

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB029**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**Confidence Quantile**

d	Alpha
2.81175	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
BIN-COMP-T	-4.77	1.0000
TB	-5.12	1.0000
LA3-REF	-5.25	1.0000
MCN5-COMP	-4.93	1.0000
MCN4-COMP	-4.85	1.0000
MCN3-COMP	-4.08	0.9937
MCN1-COMP-T	-4.06	0.9930
BIMW-COMP-T-M	-3.84	0.9793
BIME-COMP-T-M	-3.51	0.9310
MCN2-COMP-T	-3.12	0.8283

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	102.000	127.500	20.4000	-0.809
BIMW-COMP-T-M	5	113.000	127.500	22.6000	-0.453
BIN-COMP-T	5	156.000	127.500	31.2000	0.906
LA3-REF	5	147.500	127.500	29.5000	0.631
MCN1-COMP-T	5	116.000	127.500	23.2000	-0.356
MCN2-COMP-T	5	92.000	127.500	18.4000	-1.132
MCN3-COMP	5	118.000	127.500	23.6000	-0.291
MCN4-COMP	5	137.000	127.500	27.4000	0.291
MCN5-COMP	5	136.000	127.500	27.2000	0.259
TB	5	157.500	127.500	31.5000	0.954

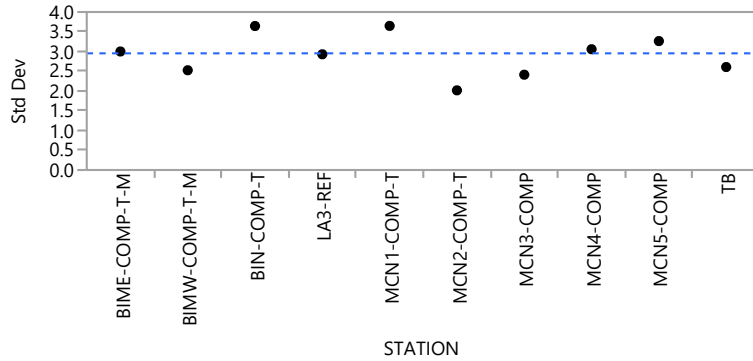
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
4.3474	9	0.8871

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB029**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	3.000453	2.500178	2.383574
BIMW-COMP-T-M	5	2.525409	2.150078	1.916132
BIN-COMP-T	5	3.644897	2.703506	2.698562
LA3-REF	5	2.929583	2.253158	1.928350
MCN1-COMP-T	5	3.648112	3.071032	2.799144
MCN2-COMP-T	5	2.016655	1.498598	1.333132
MCN3-COMP	5	2.412379	1.792958	1.684608
MCN4-COMP	5	3.057208	2.604150	2.352272
MCN5-COMP	5	3.263608	2.668333	2.495708
TB	5	2.606483	1.856526	1.296920

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	0.4557	9	40	0.8952
Brown-Forsythe	0.3391	9	40	0.9562
Levene	0.6673	9	40	0.7330
Bartlett	0.2460	9	.	0.9876

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

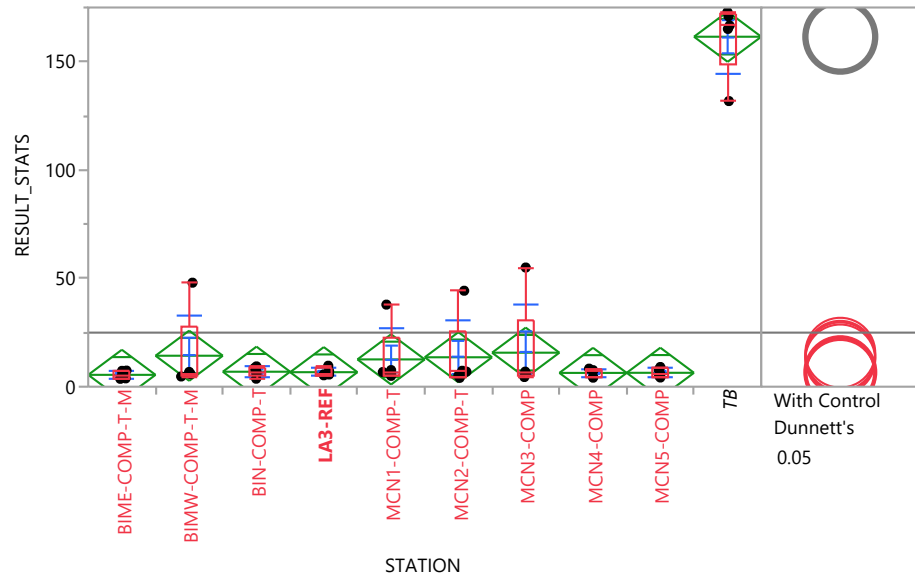
q*		Alpha									
1.95996		0.05									
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL			
TB	MCN2-COMP-T	3.20000	1.914854	1.67115	0.0947	2.24468	-2.21483	8.180620			
BIN-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	2.78604	-6.02459	8.879810			
LA3-REF	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	2.45741	-3.57895	9.176210			
MCN4-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.05595	-5.25000	7.192310			
MCN4-COMP	BIMW-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.09520	-4.36110	6.337260			
MCN5-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.14305	-5.12264	8.419610			
MCN5-COMP	MCN2-COMP-T	1.60000	1.914854	0.83557	0.4034	1.15714	-3.81180	7.424020			

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB029**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean		Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
		Difference	Std Err Dif						
TB	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	2.99464	-2.69767	9.176210	
TB	MCN1-COMP-T	1.60000	1.914854	0.83557	0.4034	1.83673	-4.05303	8.211170	
TB	MCN3-COMP	1.60000	1.914854	0.83557	0.4034	1.30233	-3.63633	7.483900	
MCN3-COMP	MCN2-COMP-T	1.40000	1.909043	0.73335	0.4633	1.05714	-3.91180	6.030020	
TB	LA3-REF	1.40000	1.909043	0.73335	0.4633	0.63882	-5.78693	6.483900	
BIN-COMP-T	BIMW-COMP-T-M	1.20000	1.914854	0.62668	0.5309	2.48478	-5.13569	7.987500	
MCN4-COMP	MCN2-COMP-T	1.20000	1.914854	0.62668	0.5309	1.58820	-4.54816	6.196720	
TB	MCN5-COMP	1.20000	1.914854	0.62668	0.5309	0.75660	-5.03033	7.383900	
LA3-REF	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	1.22105	-2.70730	8.283900	
MCN3-COMP	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	1.14410	-4.85714	7.025610	
MCN5-COMP	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	1.02130	-4.23374	7.527300	
MCN1-COMP-T	BIME-COMP-T-M	0.40000	1.914854	0.20889	0.8345	0.96504	-6.54545	7.442310	
MCN1-COMP-T	BIMW-COMP-T-M	0.40000	1.914854	0.20889	0.8345	0.96327	-5.65655	6.935260	
MCN4-COMP	MCN3-COMP	0.40000	1.914854	0.20889	0.8345	0.22078	-5.96966	5.500000	
MCN5-COMP	MCN1-COMP-T	0.40000	1.914854	0.20889	0.8345	0.97730	-6.09564	7.454570	
MCN5-COMP	MCN3-COMP	0.40000	1.914854	0.20889	0.8345	0.52941	-5.23330	6.727300	
MCN5-COMP	MCN4-COMP	0.40000	1.914854	0.20889	0.8345	0.35360	-5.49764	7.363660	
BIMW-COMP-T-M	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.26995	-5.96226	5.399610	
MCN2-COMP-T	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.08820	-5.05714	5.604110	
MCN2-COMP-T	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.25714	-4.40402	4.711800	
MCN3-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.05714	-3.96824	6.133300	
MCN3-COMP	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	0.36030	-5.83014	6.060570	
MCN4-COMP	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	0.09091	-6.38636	6.920450	
TB	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	2.10233	-2.01033	8.283900	
TB	BIN-COMP-T	0.00000	1.914854	0.00000	1.0000	-0.38245	-5.49053	5.799120	
TB	MCN4-COMP	0.00000	1.914854	0.00000	1.0000	1.93869	-3.80303	8.120260	
LA3-REF	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.68478	-6.18750	5.799120	
MCN2-COMP-T	MCN1-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.40795	-6.44672	4.639070	
MCN4-COMP	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-1.59050	-7.82386	6.399590	
MCN4-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-1.05741	-8.12026	4.500000	
MCN5-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-0.75660	-7.38390	5.727300	
MCN5-COMP	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-1.23690	-7.08814	6.753190	
MCN3-COMP	LA3-REF	-1.40000	1.909043	-0.73335	0.4633	-1.09091	-7.48390	4.333300	
MCN1-COMP-T	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-1.52151	-8.51095	6.997590	
MCN1-COMP-T	LA3-REF	-1.60000	1.914854	-0.83557	0.4034	-1.72727	-8.21117	4.750000	
MCN3-COMP	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-1.85420	-7.18750	4.257190	
MCN2-COMP-T	BIN-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-2.74192	-7.88422	3.024590	
MCN2-COMP-T	LA3-REF	-2.60000	1.909043	-1.36194	0.1732	-1.69672	-8.18062	2.911800	

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB031**



Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	3.63636	3.63636	3.741255	5.11364	7.37475	7.43243	7.43243
BIMW-COMP-T-M	4.71698	4.71698	5.275155	6.09756	27.40278	48	48
BIN-COMP-T	3.68852	3.68852	4.83339	6.89655	8.997845	9.375	9.375
LA3-REF	5.26316	5.26316	5.44408	5.68182	8.45713	9.67742	9.67742
MCN1-COMP-T	5	5	5.34091	6.75676	22.76753	37.8788	37.8788
MCN2-COMP-T	4.09836	4.09836	4.655565	6.94444	25.81932	44.2857	44.2857
MCN3-COMP	4.46429	4.46429	5.13912	6.25	30.97222	55	55
MCN4-COMP	4.16667	4.16667	4.35606	7.14286	7.98611	8.33333	8.33333
MCN5-COMP	4.24528	4.24528	4.62264	5.88235	8.474025	9.09091	9.09091
TB	131.818	131.818	148.467	166.667	171.9705	172.973	172.973

**Oneway Anova**

**Summary of Fit**

Rsquare	0.94077
Adj Rsquare	0.927444
Root Mean Square Error	12.81158
Mean of Response	24.95255
Observations (or Sum Wgts)	50

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB031**

**Oneway Anova**

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	9	104282.11	11586.9	70.5931	<.0001*
Error	40	6565.46	164.1		
C. Total	49	110847.57			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	5.469	5.7295	-6.1	17.05
BIMW-COMP-T-M	5	14.291	5.7295	2.7	25.87
BIN-COMP-T	5	6.912	5.7295	-4.7	18.49
LA3-REF	5	6.697	5.7295	-4.9	18.28
MCN1-COMP-T	5	12.595	5.7295	1.0	24.17
MCN2-COMP-T	5	13.579	5.7295	2.0	25.16
MCN3-COMP	5	15.695	5.7295	4.1	27.27
MCN4-COMP	5	6.365	5.7295	-5.2	17.95
MCN5-COMP	5	6.415	5.7295	-5.2	17.99
TB	5	161.508	5.7295	149.9	173.09

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	5.469	1.8295	0.8182	3.2	7.74
BIMW-COMP-T-M	5	14.291	18.8590	8.4340	-9.1	37.71
BIN-COMP-T	5	6.912	2.2499	1.0062	4.1	9.71
LA3-REF	5	6.697	1.8310	0.8188	4.4	8.97
MCN1-COMP-T	5	12.595	14.1706	6.3373	-5.0	30.19
MCN2-COMP-T	5	13.579	17.2160	7.6992	-7.8	34.96
MCN3-COMP	5	15.695	21.9911	9.8347	-11.6	43.00
MCN4-COMP	5	6.365	1.8872	0.8440	4.0	8.71
MCN5-COMP	5	6.415	2.0146	0.9009	3.9	8.92
TB	5	161.508	16.8972	7.5567	140.5	182.49

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB031**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	132	<.0001*
MCN3-COMP	-13.8	0.8466
BIMW-COMP-T-M	-15.2	0.9300
MCN2-COMP-T	-15.9	0.9586
MCN1-COMP-T	-16.9	0.9834
BIN-COMP-T	-22.6	1.0000
LA3-REF	-22.8	1.0000
MCN5-COMP	-22.5	1.0000
MCN4-COMP	-22.5	1.0000
BIME-COMP-T-M	-21.6	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	80.000	127.500	16.0000	-1.520
BIMW-COMP-T-M	5	119.000	127.500	23.8000	-0.259
BIN-COMP-T	5	127.000	127.500	25.4000	-0.000
LA3-REF	5	116.500	127.500	23.3000	-0.340
MCN1-COMP-T	5	128.000	127.500	25.6000	0.000
MCN2-COMP-T	5	119.500	127.500	23.9000	-0.243
MCN3-COMP	5	120.500	127.500	24.1000	-0.210
MCN4-COMP	5	113.000	127.500	22.6000	-0.453
MCN5-COMP	5	111.500	127.500	22.3000	-0.501
TB	5	240.000	127.500	48.0000	3.622

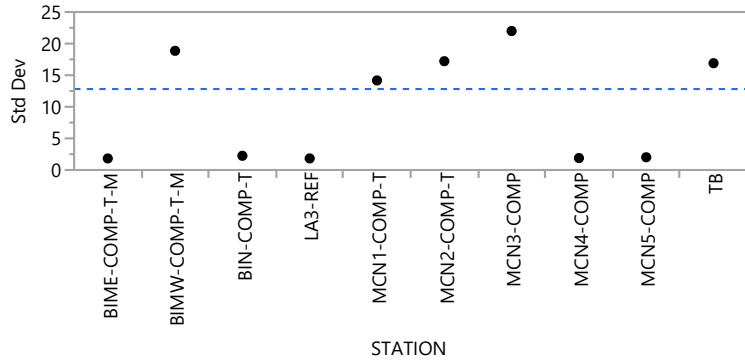
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
14.7650	9	0.0976

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB031**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	1.82954	1.52450	1.45340
BIMW-COMP-T-M	5	18.85905	13.48373	8.85105
BIN-COMP-T	5	2.24994	1.66883	1.66578
LA3-REF	5	1.83098	1.40823	1.20522
MCN1-COMP-T	5	14.17059	10.11363	6.97065
MCN2-COMP-T	5	17.21597	12.28274	8.46550
MCN3-COMP	5	21.99106	15.72219	10.33324
MCN4-COMP	5	1.88717	1.60750	1.45202
MCN5-COMP	5	2.01456	1.64711	1.54055
TB	5	16.89724	11.87616	9.40140

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	0.7780	9	40	0.6374
Brown-Forsythe	0.5349	9	40	0.8402
Levene	3.0410	9	40	0.0073*
Bartlett	6.3482	9		<.0001*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

		q*	Alpha						
		1.95996	0.05						
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	161.553	124.501	169.1269	
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	159.861	117.116	167.1397	
TB	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	160.689	123.197	167.2795	
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	160.985	124.581	167.3480	
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	159.434	124.162	167.2912	
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	159.723	120.830	167.7602	
TB	MCN3-COMP	4.80000	1.914854	2.50672	0.0122*	159.723	110.116	167.1591	

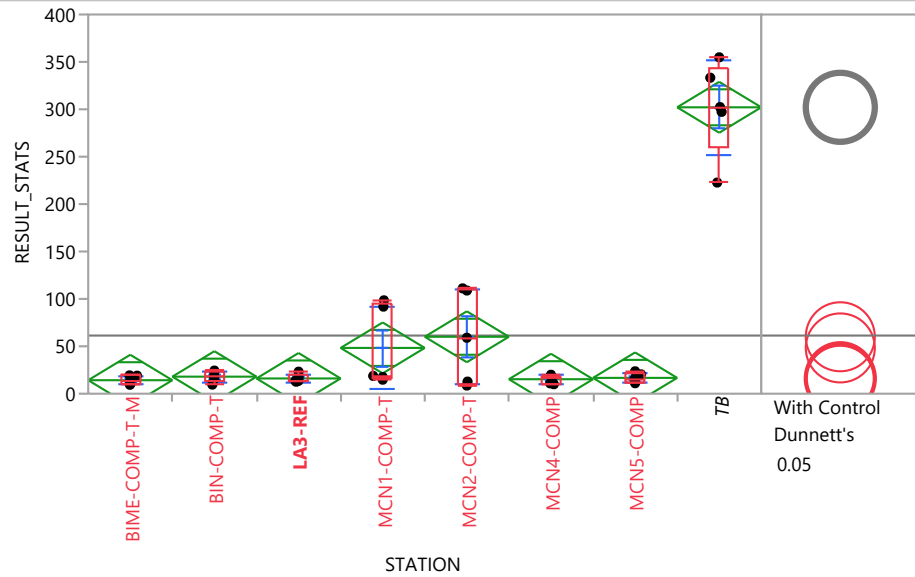
**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB031**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean		Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
		Difference	Std Err Dif						
TB	MCN4-COMP	4.80000	1.914854	2.50672	0.0122*	160.949	124.179	168.4276	
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	160.871	123.961	167.9730	
MCN1-COMP-T	BIME-COMP-T-M	2.00000	1.914854	1.04447	0.2963	1.643	-2.317	34.0327	
BIN-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.783	-3.629	5.5289	
LA3-REF	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.627	-2.054	5.8313	
MCN2-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.367	-3.219	40.4396	
MCN4-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.699	-3.150	4.4872	
MCN5-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.769	-3.072	5.2448	
BIMW-COMP-T-M	BIME-COMP-T-M	1.20000	1.914854	0.62668	0.5309	1.081	-2.600	44.1539	
MCN3-COMP	BIME-COMP-T-M	1.20000	1.914854	0.62668	0.5309	1.136	-2.853	51.1539	
MCN1-COMP-T	LA3-REF	0.60000	1.909043	0.31429	0.7533	0.419	-3.996	32.2538	
BIN-COMP-T	BIMW-COMP-T-M	0.40000	1.914854	0.20889	0.8345	0.145	-42.022	3.9037	
MCN3-COMP	LA3-REF	0.40000	1.914854	0.20889	0.8345	0.189	-3.863	49.3750	
MCN5-COMP	MCN4-COMP	0.40000	1.914854	0.20889	0.8345	0.218	-3.394	4.5455	
MCN1-COMP-T	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.283	-42.318	32.0455	
MCN1-COMP-T	BIN-COMP-T	0.00000	1.914854	0.00000	1.0000	-0.140	-3.693	31.9005	
MCN2-COMP-T	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.139	-42.787	38.4524	
MCN2-COMP-T	BIN-COMP-T	0.00000	1.914854	0.00000	1.0000	0.048	-4.522	38.3074	
MCN2-COMP-T	LA3-REF	0.00000	1.914854	0.00000	1.0000	-0.050	-4.465	38.6607	
MCN2-COMP-T	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	-0.303	-32.666	38.6039	
MCN3-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.139	-42.186	49.1667	
MCN3-COMP	BIN-COMP-T	0.00000	1.914854	0.00000	1.0000	-0.164	-4.156	49.0217	
MCN3-COMP	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	-0.507	-32.065	49.3182	
MCN3-COMP	MCN2-COMP-T	0.00000	1.909043	0.00000	1.0000	0.000	-38.472	49.7872	
MCN4-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.172	-43.455	2.9219	
MCN4-COMP	MCN2-COMP-T	0.00000	1.914854	0.00000	1.0000	0.068	-39.740	3.5405	
MCN4-COMP	MCN3-COMP	0.00000	1.914854	0.00000	1.0000	0.081	-50.455	3.1746	
MCN5-COMP	MCN2-COMP-T	0.00000	1.914854	0.00000	1.0000	-0.213	-39.286	3.8781	
LA3-REF	BIMW-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-0.208	-42.375	3.8441	
LA3-REF	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.353	-3.750	3.6992	
MCN4-COMP	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.982	-4.830	3.9504	
MCN4-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-0.718	-5.132	2.7083	
MCN5-COMP	BIMW-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-0.472	-43.000	3.2576	
MCN5-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-0.587	-4.677	3.4659	
MCN5-COMP	MCN3-COMP	-0.40000	1.914854	-0.20889	0.8345	-0.368	-50.000	3.3929	
MCN5-COMP	MCN1-COMP-T	-0.60000	1.909043	-0.31429	0.7533	-0.755	-32.879	3.4091	
MCN4-COMP	MCN1-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.513	-33.333	2.6515	
MCN5-COMP	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.764	-4.375	4.1686	



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB033**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	9.45455	9.45455	9.727275	13.2955	19.17435	19.3243	19.3243
BIN-COMP-T	9.59016	9.59016	12.56683	17.931	23.3944	24.375	24.375
LA3-REF	12.6316	12.6316	13.0658	13.6364	20.2971	23.2258	23.2258
MCN1-COMP-T	14.7727	14.7727	16.17015	18.75	95.16075	98.4848	98.4848
MCN2-COMP-T	8.57143	8.57143	10.66872	59.0164	109.9675	111.111	111.111
MCN4-COMP	10	10	10.45455	17.1429	19.16665	20	20
MCN5-COMP	11.0377	11.0377	12.01885	15.2941	22.0325	23.6364	23.6364
TB	222.727	222.727	260.012	302.326	344.086	354.839	354.839

**Oneway Anova**

**Summary of Fit**

Rsquare	0.924818
Adj Rsquare	0.908371
Root Mean Square Error	29.47735
Mean of Response	61.33298
Observations (or Sum Wgts)	40

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	7	342031.88	48861.7	56.2330	<.0001*
Error	32	27805.26	868.9		
C. Total	39	369837.14			

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB033**

**Oneway Anova**

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	14.220	13.183	-12.6	41.07
BIN-COMP-T	5	17.971	13.183	-8.9	44.82
LA3-REF	5	16.072	13.183	-10.8	42.92
MCN1-COMP-T	5	48.282	13.183	21.4	75.13
MCN2-COMP-T	5	60.058	13.183	33.2	86.91
MCN4-COMP	5	15.277	13.183	-11.6	42.13
MCN5-COMP	5	16.679	13.183	-10.2	43.53
TB	5	302.104	13.183	275.3	328.96

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	14.220	4.7568	2.127	8.3	20.13
BIN-COMP-T	5	17.971	5.8498	2.616	10.7	25.23
LA3-REF	5	16.072	4.3943	1.965	10.6	21.53
MCN1-COMP-T	5	48.282	42.8827	19.178	-5.0	101.53
MCN2-COMP-T	5	60.058	49.6815	22.218	-1.6	121.75
MCN4-COMP	5	15.277	4.5292	2.026	9.7	20.90
MCN5-COMP	5	16.679	5.2379	2.342	10.2	23.18
TB	5	302.104	50.1998	22.450	239.8	364.44

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.76173	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	234.5	<.0001*
MCN2-COMP-T	-7.5	0.1194
MCN1-COMP-T	-19.3	0.3737
BIN-COMP-T	-49.6	1.0000
MCN5-COMP	-50.9	1.0000
LA3-REF	-51.5	1.0000
MCN4-COMP	-50.7	1.0000
BIME-COMP-T-M	-49.6	1.0000

Positive values show pairs of means that are significantly different.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB033**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

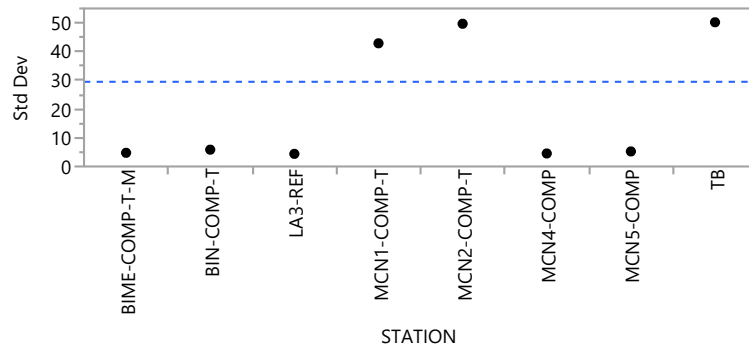
Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	64.500	102.500	12.9000	-1.534
BIN-COMP-T	5	96.000	102.500	19.2000	-0.245
LA3-REF	5	79.000	102.500	15.8000	-0.941
MCN1-COMP-T	5	120.000	102.500	24.0000	0.695
MCN2-COMP-T	5	110.000	102.500	22.0000	0.286
MCN4-COMP	5	73.500	102.500	14.7000	-1.166
MCN5-COMP	5	87.000	102.500	17.4000	-0.613
TB	5	190.000	102.500	38.0000	3.558

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
16.3018	7	0.0225*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif	MeanAbsDif
			to Mean	to Median
BIME-COMP-T-M	5	4.75680	3.96368	3.77883
BIN-COMP-T	5	5.84984	4.33897	4.33103
LA3-REF	5	4.39435	3.37973	2.89252
MCN1-COMP-T	5	42.88275	37.50271	31.59624
MCN2-COMP-T	5	49.68153	39.92779	39.71951
MCN4-COMP	5	4.52920	3.85801	3.48484
MCN5-COMP	5	5.23789	4.28251	4.00546
TB	5	50.19984	33.67392	33.62960

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB033**

**Tests that the Variances are Equal**

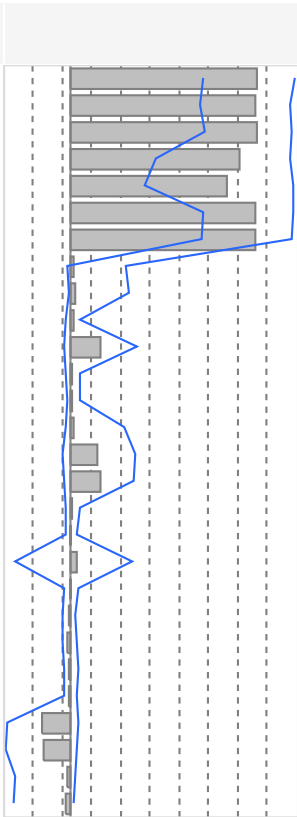
Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	2.9975	7	32	0.0155*
Brown-Forsythe	3.2049	7	32	0.0109*
Levene	7.0274	7	32	<.0001*
Bartlett	7.8535	7	.	<.0001*

Warning: Small sample sizes. Use Caution.

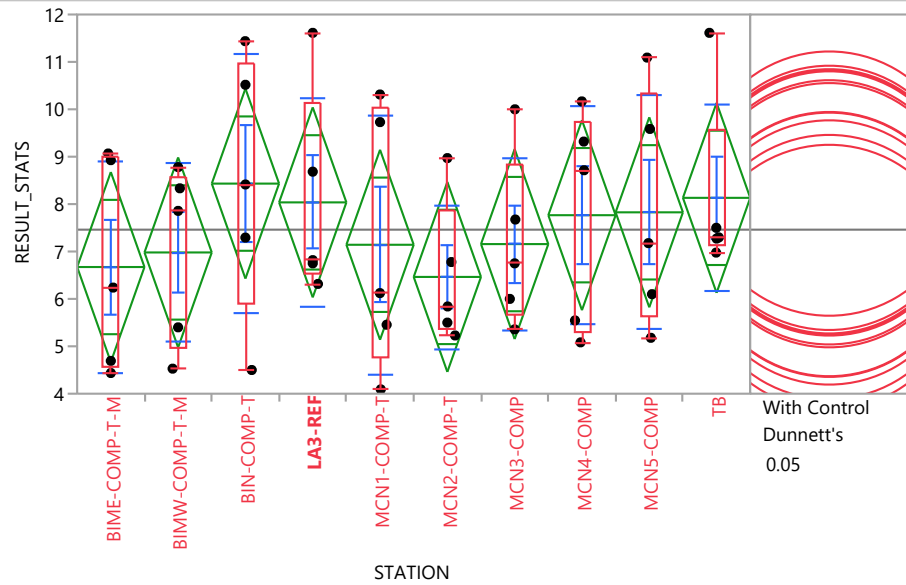
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q\* 1.95996  
Alpha 0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	289.031	203.703	344.8390
TB	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	286.783	200.313	339.2955
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	288.690	205.359	341.3390
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	263.002	130.890	337.2714
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	243.310	113.903	342.0730
TB	MCN4-COMP	4.80000	1.914854	2.50672	0.0122*	287.297	204.394	343.9299
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	287.032	202.298	341.8390
MCN1-COMP-T	LA3-REF	3.20000	1.914854	1.67115	0.0947	5.114	-5.658	84.9848
MCN1-COMP-T	BIME-COMP-T-M	2.40000	1.914854	1.25336	0.2101	8.113	-4.252	88.4848
BIN-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	4.636	-9.434	14.3750
MCN2-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	45.721	-10.453	101.1110
MCN5-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.999	-7.987	13.6364
LA3-REF	BIME-COMP-T-M	1.20000	1.914854	0.62668	0.5309	3.177	-6.393	13.2258
MCN1-COMP-T	BIN-COMP-T	1.20000	1.914854	0.62668	0.5309	5.183	-7.641	82.9413
MCN2-COMP-T	BIN-COMP-T	1.20000	1.914854	0.62668	0.5309	41.085	-13.842	99.2338
MCN2-COMP-T	LA3-REF	1.20000	1.914854	0.62668	0.5309	45.380	-10.460	97.6110
MCN5-COMP	MCN4-COMP	1.20000	1.914854	0.62668	0.5309	2.091	-7.296	12.7273
MCN4-COMP	BIME-COMP-T-M	0.60000	1.909043	0.31429	0.7533	0.676	-9.024	10.0000
MCN2-COMP-T	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	10.339	-85.719	94.0513
MCN5-COMP	LA3-REF	0.00000	1.914854	0.00000	1.0000	0.368	-10.226	10.1364
MCN4-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-1.723	-12.317	6.5000
MCN4-COMP	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-4.080	-13.466	8.7431
MCN5-COMP	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-1.985	-11.376	10.8384
LA3-REF	BIN-COMP-T	-1.20000	1.914854	-0.62668	0.5309	-2.044	-10.875	7.7782
MCN5-COMP	MCN2-COMP-T	-1.20000	1.914854	-0.62668	0.5309	-43.722	-98.111	11.8572
MCN4-COMP	MCN2-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-41.874	-100.202	9.7619
MCN5-COMP	MCN1-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-5.750	-85.485	6.0688
MCN4-COMP	MCN1-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-7.568	-87.576	3.5606



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB037**



Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	4.43636	4.43636	4.564335	6.23864	8.9972	9.06757	9.06757
BIMW-COMP-T-M	4.5283	4.5283	4.96415	7.85714	8.55691	8.78049	8.78049
BIN-COMP-T	4.5	4.5	5.89674	8.41379	10.97735	11.4375	11.4375
LA3-REF	6.31579	6.31579	6.532895	6.81818	10.14856	11.6129	11.6129
MCN1-COMP-T	4.09091	4.09091	4.77273	6.12245	10.02112	10.3125	10.3125
MCN2-COMP-T	5.22857	5.22857	5.364285	5.84043	7.874185	8.97059	8.97059
MCN3-COMP	5.35714	5.35714	5.67857	6.75	8.83721	10	10
MCN4-COMP	5.08333	5.08333	5.31439	8.71429	9.74307	10.1667	10.1667
MCN5-COMP	5.17924	5.17924	5.63962	7.17647	10.33831	11.0909	11.0909
TB	6.97674	6.97674	7.124735	7.2973	9.55645	11.6129	11.6129

**Oneway Anova**

**Summary of Fit**

Rsquare	0.092197
Adj Rsquare	-0.11206
Root Mean Square Error	2.217221
Mean of Response	7.460686
Observations (or Sum Wgts)	50

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB037**

**Oneway Anova**

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	9	19.97122	2.21902	0.4514	0.8979
Error	40	196.64277	4.91607		
C. Total	49	216.61400			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	6.67234	0.99157	4.6683	8.676
BIMW-COMP-T-M	5	6.97985	0.99157	4.9758	8.984
BIN-COMP-T	5	8.43239	0.99157	6.4284	10.436
LA3-REF	5	8.03622	0.99157	6.0322	10.040
MCN1-COMP-T	5	7.14203	0.99157	5.1380	9.146
MCN2-COMP-T	5	6.46347	0.99157	4.4594	8.468
MCN3-COMP	5	7.15631	0.99157	5.1523	9.160
MCN4-COMP	5	7.76584	0.99157	5.7618	9.770
MCN5-COMP	5	7.82646	0.99157	5.8224	9.831
TB	5	8.13193	0.99157	6.1279	10.136

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	6.67234	2.23204	0.9982	3.9009	9.444
BIMW-COMP-T-M	5	6.97985	1.89406	0.8470	4.6281	9.332
BIN-COMP-T	5	8.43239	2.74492	1.2276	5.0241	11.841
LA3-REF	5	8.03622	2.19718	0.9826	5.3081	10.764
MCN1-COMP-T	5	7.14203	2.73608	1.2236	3.7447	10.539
MCN2-COMP-T	5	6.46347	1.51871	0.6792	4.5778	8.349
MCN3-COMP	5	7.15631	1.80929	0.8091	4.9098	9.403
MCN4-COMP	5	7.76584	2.30235	1.0296	4.9071	10.625
MCN5-COMP	5	7.82646	2.45777	1.0991	4.7747	10.878
TB	5	8.13193	1.95485	0.8742	5.7047	10.559

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB037**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
BIN-COMP-T	-3.55	1.0000
TB	-3.85	1.0000
LA3-REF	-3.94	1.0000
MCN5-COMP	-3.73	1.0000
MCN4-COMP	-3.67	1.0000
MCN3-COMP	-3.06	0.9937
MCN1-COMP-T	-3.05	0.9930
BIMW-COMP-T-M	-2.89	0.9795
BIME-COMP-T-M	-2.58	0.9158
MCN2-COMP-T	-2.37	0.8401

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	101.000	127.500	20.2000	-0.841
BIMW-COMP-T-M	5	113.000	127.500	22.6000	-0.453
BIN-COMP-T	5	157.000	127.500	31.4000	0.938
LA3-REF	5	146.000	127.500	29.2000	0.582
MCN1-COMP-T	5	116.000	127.500	23.2000	-0.356
MCN2-COMP-T	5	94.000	127.500	18.8000	-1.067
MCN3-COMP	5	117.500	127.500	23.5000	-0.307
MCN4-COMP	5	138.000	127.500	27.6000	0.323
MCN5-COMP	5	136.000	127.500	27.2000	0.259
TB	5	156.500	127.500	31.3000	0.922

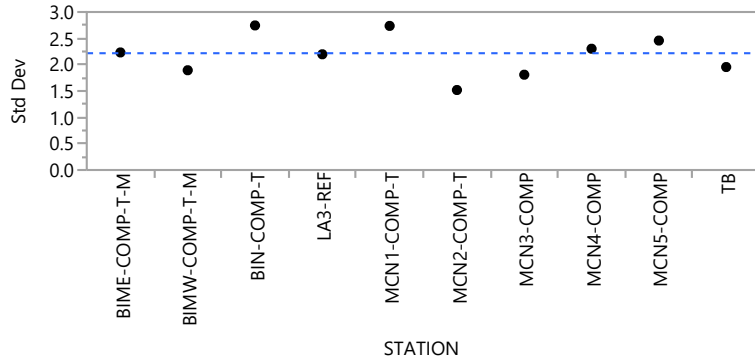
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
4.2385	9	0.8950

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB037**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	2.232044	1.859886	1.773146
BIMW-COMP-T-M	5	1.894061	1.612562	1.437104
BIN-COMP-T	5	2.744917	2.035965	2.032244
LA3-REF	5	2.197180	1.689871	1.446264
MCN1-COMP-T	5	2.736080	2.303270	2.099354
MCN2-COMP-T	5	1.518706	1.128569	1.003960
MCN3-COMP	5	1.809293	1.344718	1.263456
MCN4-COMP	5	2.302355	1.961162	1.771472
MCN5-COMP	5	2.457766	2.009473	1.879474
TB	5	1.954852	1.392386	0.972686

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	0.4587	9	40	0.8933
Brown-Forsythe	0.3394	9	40	0.9561
Levene	0.6674	9	40	0.7329
Bartlett	0.2468	9	.	0.9875

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*		Alpha							
1.95996		0.05							
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
TB	MCN2-COMP-T	3.20000	1.914854	1.67115	0.0947	1.65957	-1.69786	6.112900	
BIN-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	2.17515	-4.42683	6.745190	
LA3-REF	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.87943	-2.61104	6.920590	
MCN4-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.85314	-3.84350	5.474390	
MCN4-COMP	BIMW-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.85715	-3.25000	4.791140	
MCN5-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.93783	-3.74759	6.398590	
MCN5-COMP	MCN2-COMP-T	1.60000	1.914854	0.83557	0.4034	0.87143	-2.87059	5.590900	

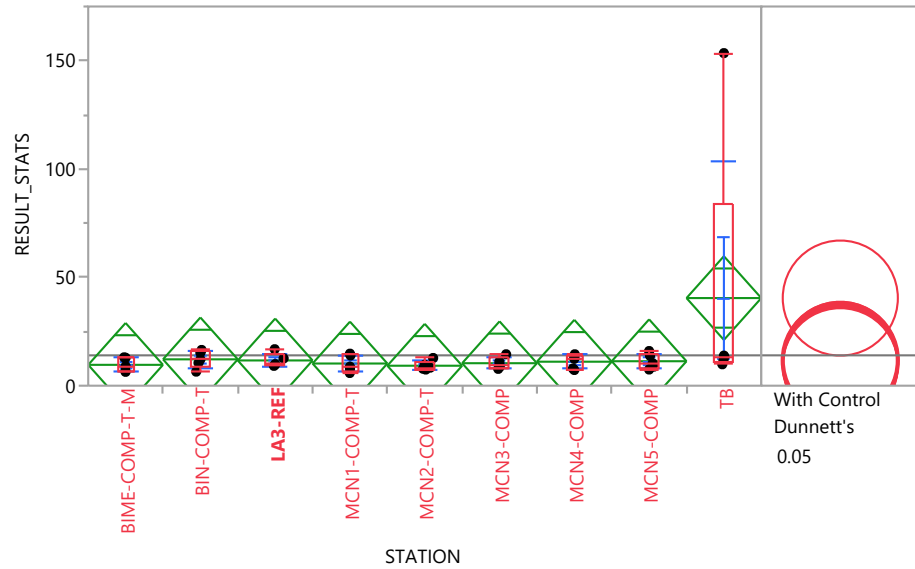


**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB037**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean		Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
		Difference	Std Err Dif						
TB	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	2.28443	-1.95009	6.920590	
TB	MCN1-COMP-T	1.60000	1.914854	0.83557	0.4034	1.37755	-3.03977	6.158350	
TB	MCN3-COMP	1.60000	1.914854	0.83557	0.4034	0.97674	-2.72727	5.612900	
TB	LA3-REF	1.40000	1.909043	0.73335	0.4633	0.47912	-4.34017	4.862900	
BIN-COMP-T	BIMW-COMP-T-M	1.20000	1.914854	0.62668	0.5309	1.89348	-3.83333	6.037500	
MCN3-COMP	MCN2-COMP-T	1.20000	1.914854	0.62668	0.5309	0.77143	-2.97059	4.500000	
MCN4-COMP	MCN2-COMP-T	1.20000	1.914854	0.62668	0.5309	1.19611	-3.42514	4.666700	
TB	MCN5-COMP	1.20000	1.914854	0.62668	0.5309	0.52200	-3.81817	5.512900	
LA3-REF	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.91579	-2.03049	6.212900	
MCN3-COMP	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.92078	-3.56969	5.307690	
MCN5-COMP	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.80522	-3.15409	5.690900	
MCN1-COMP-T	BIME-COMP-T-M	0.40000	1.914854	0.20889	0.8345	0.76224	-4.83592	5.620190	
MCN1-COMP-T	BIMW-COMP-T-M	0.40000	1.914854	0.20889	0.8345	0.72245	-4.24242	5.201430	
MCN4-COMP	MCN3-COMP	0.40000	1.914854	0.20889	0.8345	0.18831	-4.45455	4.166700	
MCN5-COMP	MCN1-COMP-T	0.40000	1.914854	0.20889	0.8345	0.77840	-4.55049	5.636350	
MCN5-COMP	MCN3-COMP	0.40000	1.914854	0.20889	0.8345	0.42647	-3.90000	5.090900	
MCN5-COMP	MCN4-COMP	0.40000	1.914854	0.20889	0.8345	0.26627	-4.14020	5.545450	
BIMW-COMP-T-M	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.14634	-4.39853	4.088180	
MCN2-COMP-T	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.04376	-3.69826	4.278280	
MCN2-COMP-T	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.17143	-3.28049	3.570590	
MCN3-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.04286	-2.97619	4.600000	
MCN3-COMP	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	0.27027	-4.37259	4.545450	
MCN4-COMP	LA3-REF	0.00000	1.914854	0.00000	1.0000	-0.77034	-6.06745	3.416700	
MCN4-COMP	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	0.09090	-4.76705	5.228530	
TB	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	1.57674	-1.50776	6.212900	
TB	MCN4-COMP	0.00000	1.914854	0.00000	1.0000	1.43129	-2.89397	6.067450	
LA3-REF	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.54348	-4.68750	4.319420	
MCN2-COMP-T	MCN1-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.28202	-4.81250	3.516040	
MCN4-COMP	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-1.19776	-5.89205	4.819440	
MCN5-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-0.52200	-5.51290	4.340900	
TB	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.31674	-4.16477	4.319420	
MCN5-COMP	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.93149	-5.33796	5.085710	
MCN3-COMP	LA3-REF	-1.40000	1.909043	-0.73335	0.4633	-0.81818	-5.61290	3.250000	
MCN1-COMP-T	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-1.17103	-6.42629	5.229730	
MCN1-COMP-T	LA3-REF	-1.60000	1.914854	-0.83557	0.4034	-1.29545	-6.15835	3.562500	
MCN3-COMP	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-1.43750	-5.43750	3.174420	
MCN2-COMP-T	BIN-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-2.06491	-5.93750	2.277780	
MCN2-COMP-T	LA3-REF	-2.40000	1.914854	-1.25336	0.2101	-1.25000	-6.11290	2.220590	

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB044**



Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	6.4	6.4	6.584615	9	12.97955	13.0811	13.0811
BIN-COMP-T	6.4918	6.4918	8.50675	12.1379	15.8362	16.5	16.5
LA3-REF	9.1579	9.1579	9.4727	9.88636	14.7154	16.8387	16.8387
MCN1-COMP-T	5.86364	5.86364	6.84091	8.77551	14.3636	14.7813	14.7813
MCN2-COMP-T	7.45714	7.45714	7.6507	8.32979	11.23039	12.7941	12.7941
MCN3-COMP	7.76786	7.76786	8.23393	9.7875	12.81395	14.5	14.5
MCN4-COMP	7.25	7.25	7.579545	12.4286	13.89585	14.5	14.5
MCN5-COMP	7.4717	7.4717	8.13585	10.3529	14.9143	16	16
TB	9.88636	9.88636	10.75398	13.3333	83.6795	153.488	153.488

**Oneway Anova**

**Summary of Fit**

Rsquare	0.195389
Adj Rsquare	0.016587
Root Mean Square Error	21.29853
Mean of Response	14.00905
Observations (or Sum Wgts)	45

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB044**

**Oneway Anova**

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	8	3965.668	495.709	1.0928	0.3905
Error	36	16330.590	453.627		
C. Total	44	20296.258			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	9.6257	9.5250	-9.69	28.943
BIN-COMP-T	5	12.1648	9.5250	-7.15	31.482
LA3-REF	5	11.6525	9.5250	-7.67	30.970
MCN1-COMP-T	5	10.2369	9.5250	-9.08	29.554
MCN2-COMP-T	5	9.2184	9.5250	-10.10	28.536
MCN3-COMP	5	10.3767	9.5250	-8.94	29.694
MCN4-COMP	5	11.0759	9.5250	-8.24	30.393
MCN5-COMP	5	11.2906	9.5250	-8.03	30.608
TB	5	40.4401	9.5250	21.12	59.758

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	9.6257	3.2200	1.440	5.63	13.62
BIN-COMP-T	5	12.1648	3.9599	1.771	7.25	17.08
LA3-REF	5	11.6525	3.1859	1.425	7.70	15.61
MCN1-COMP-T	5	10.2369	3.9217	1.754	5.37	15.11
MCN2-COMP-T	5	9.2184	2.1660	0.969	6.53	11.91
MCN3-COMP	5	10.3767	2.6235	1.173	7.12	13.63
MCN4-COMP	5	11.0759	3.2837	1.469	7.00	15.15
MCN5-COMP	5	11.2906	3.5456	1.586	6.89	15.69
TB	5	40.4401	63.2150	28.271	-38.05	118.93

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.78823	0.05

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB044**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	-8.77	0.1983
BIN-COMP-T	-37	1.0000
LA3-REF	-37.6	1.0000
MCN5-COMP	-37.2	1.0000
MCN4-COMP	-37	1.0000
MCN3-COMP	-36.3	1.0000
MCN1-COMP-T	-36.1	1.0000
BIME-COMP-T-M	-35.5	1.0000
MCN2-COMP-T	-35.1	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	85.000	115.000	17.0000	-1.066
BIN-COMP-T	5	138.000	115.000	27.6000	0.813
LA3-REF	5	131.000	115.000	26.2000	0.560
MCN1-COMP-T	5	101.000	115.000	20.2000	-0.488
MCN2-COMP-T	5	76.000	115.000	15.2000	-1.391
MCN3-COMP	5	104.000	115.000	20.8000	-0.379
MCN4-COMP	5	115.500	115.000	23.1000	0.000
MCN5-COMP	5	122.000	115.000	24.4000	0.235
TB	5	162.500	115.000	32.5000	1.698

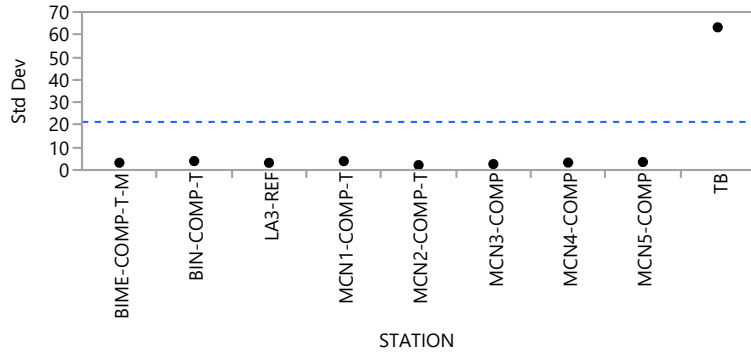
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
6.7590	8	0.5628

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB044**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	3.21999	2.68311	2.55797
BIN-COMP-T	5	3.95989	2.93715	2.93178
LA3-REF	5	3.18591	2.45031	2.09708
MCN1-COMP-T	5	3.92172	3.30136	3.00908
MCN2-COMP-T	5	2.16602	1.60959	1.43187
MCN3-COMP	5	2.62347	1.94984	1.83201
MCN4-COMP	5	3.28368	2.79707	2.52652
MCN5-COMP	5	3.54564	2.89893	2.71138
TB	5	63.21503	45.21918	29.17021

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.3008	8	36	0.2742
Brown-Forsythe	0.9252	8	36	0.5077
Levene	6.2459	8	36	<.0001*
Bartlett	12.9218	8	.	<.0001*

Warning: Small sample sizes. Use Caution.

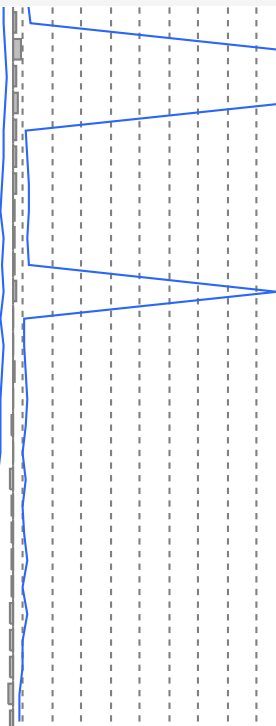
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*		Alpha									
1.95996		0.05									
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL			
TB	MCN2-COMP-T	4.00000	1.914854	2.08893	0.0367*	4.16446	-1.17250	145.6437			
TB	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	4.33330	-2.99164	146.7188			
TB	MCN3-COMP	2.80000	1.914854	1.46225	0.1437	2.92160	-2.87840	144.7880			
TB	LA3-REF	2.20000	1.909043	1.15241	0.2492	1.83410	-5.21710	143.7005			
MCN5-COMP	MCN2-COMP-T	2.00000	1.914854	1.04447	0.2963	1.34286	-3.99410	8.1557			
BIN-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	3.13790	-6.38620	9.7308			
LA3-REF	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	2.75790	-3.72010	10.0695			
MCN3-COMP	MCN2-COMP-T	1.60000	1.914854	0.83557	0.4034	1.24286	-4.09410	6.6557			
MCN4-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.13986	-5.62800	7.7308			

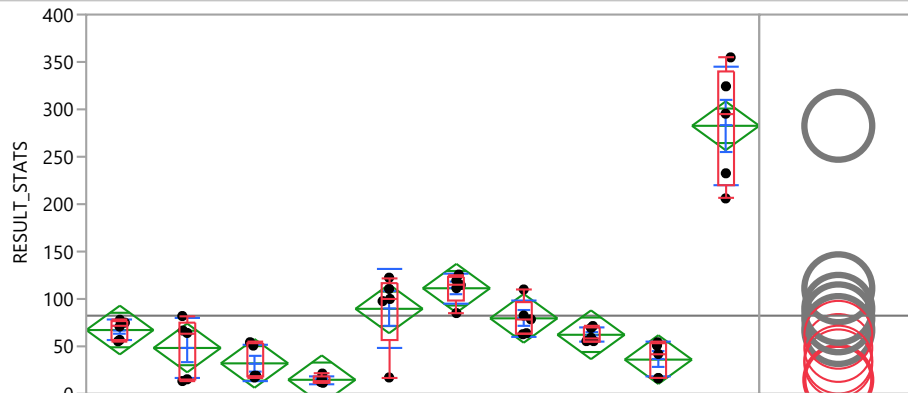
**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB044**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

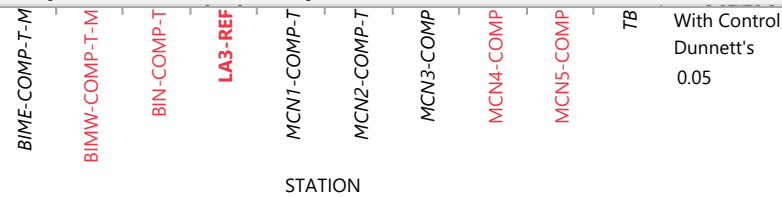
Level	- Level	Score Mean		Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
		Difference	Std Err Dif					
MCN5-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.35290	-5.40630	9.2308
TB	MCN1-COMP-T	1.60000	1.914854	0.83557	0.4034	4.02272	-4.05954	145.6698
TB	MCN4-COMP	1.60000	1.914854	0.83557	0.4034	1.97727	-3.40534	145.5789
TB	MCN5-COMP	1.60000	1.914854	0.83557	0.4034	2.82160	-4.37840	144.6880
MCN4-COMP	MCN2-COMP-T	1.20000	1.914854	0.62668	0.5309	1.70590	-4.88501	6.6557
MCN3-COMP	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	1.36786	-5.11014	7.7308
MCN5-COMP	MCN1-COMP-T	0.80000	1.914854	0.41779	0.6761	1.21870	-6.47420	8.1818
MCN1-COMP-T	BIME-COMP-T-M	0.40000	1.914854	0.20889	0.8345	1.04895	-7.01436	8.0121
MCN5-COMP	MCN3-COMP	0.40000	1.914854	0.20889	0.8345	0.56540	-5.70000	7.3000
MCN5-COMP	MCN4-COMP	0.40000	1.914854	0.20889	0.8345	0.53690	-5.82000	8.0909
TB	BIN-COMP-T	0.40000	1.914854	0.20889	0.8345	1.19540	-5.28604	142.9663
MCN4-COMP	MCN3-COMP	0.20000	1.909043	0.10476	0.9166	0.14123	-6.59091	5.8000
MCN2-COMP-T	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.08390	-5.42086	6.0249
MCN3-COMP	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	0.55410	-6.17804	6.6818
MCN4-COMP	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	0.09091	-6.87221	7.4281
LA3-REF	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.73420	-6.71250	6.3170
MCN2-COMP-T	MCN1-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.44572	-6.93704	4.9759
MCN4-COMP	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-1.88070	-8.59091	6.7999
MCN4-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-1.24881	-8.92961	4.7125
MCN5-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-0.83870	-8.03870	6.2125
MCN5-COMP	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-1.34380	-7.70070	7.3368
MCN3-COMP	LA3-REF	-1.40000	1.909043	-0.73335	0.4633	-1.18636	-8.13870	4.7125
MCN1-COMP-T	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-1.74619	-9.30876	7.4541
MCN1-COMP-T	LA3-REF	-1.60000	1.914854	-0.83557	0.4034	-1.96932	-9.02052	4.9938
MCN3-COMP	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-2.00000	-7.80000	4.6361
MCN2-COMP-T	BIN-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-3.06456	-8.65574	3.1749
MCN2-COMP-T	LA3-REF	-2.80000	1.914854	-1.46225	0.1437	-1.94324	-8.99444	3.0066



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB049**



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB049**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	55.3846	55.3846	56.0707	70.9091	76.5244	78.0488	78.0488
BIMW-COMP-T-M	13.4146	13.4146	14.3462	64.1509	74.33335	82	82
BIN-COMP-T	17.1875	17.1875	18.0765	18.9655	52.58375	54.3478	54.3478
LA3-REF	11.5789	11.5789	11.97695	12.5	18.6057	21.2903	21.2903
MCN1-COMP-T	17.1875	17.1875	57.4574	100	116.5275	122.449	122.449
MCN2-COMP-T	85.1064	85.1064	98.2907	114.706	122.579	125.714	125.714
MCN3-COMP	62.7907	62.7907	63.3398	78.5714	96.25	110	110
MCN4-COMP	55.5556	55.5556	55.5556	59.0909	70.4365	71.4286	71.4286
MCN5-COMP	16.1765	16.1765	16.4216	42	52.61455	54.2857	54.2857
TB	206.061	206.061	219.3095	295.455	339.5815	354.839	354.839

**Oneway Anova**

**Summary of Fit**

Rsquare	0.889285
Adj Rsquare	0.864374
Root Mean Square Error	28.46329
Mean of Response	82.36222
Observations (or Sum Wgts)	50

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	9	260294.17	28921.6	35.6986	<.0001*
Error	40	32406.37	810.2		
C. Total	49	292700.54			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	67.220	12.729	41.5	92.95
BIMW-COMP-T-M	5	48.302	12.729	22.6	74.03
BIN-COMP-T	5	32.057	12.729	6.3	57.78
LA3-REF	5	14.733	12.729	-11.0	40.46
MCN1-COMP-T	5	89.594	12.729	63.9	115.32
MCN2-COMP-T	5	111.289	12.729	85.6	137.02
MCN3-COMP	5	79.550	12.729	53.8	105.28
MCN4-COMP	5	62.215	12.729	36.5	87.94
MCN5-COMP	5	36.014	12.729	10.3	61.74
TB	5	282.647	12.729	256.9	308.37

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB049**

**Oneway Anova**

**Means for Oneway Anova**

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	67.220	10.4995	4.696	54.18	80.26
BIMW-COMP-T-M	5	48.302	31.7480	14.198	8.88	87.72
BIN-COMP-T	5	32.057	18.7936	8.405	8.72	55.39
LA3-REF	5	14.733	4.0282	1.801	9.73	19.73
MCN1-COMP-T	5	89.594	41.6476	18.625	37.88	141.31
MCN2-COMP-T	5	111.289	15.5870	6.971	91.94	130.64
MCN3-COMP	5	79.550	19.1246	8.553	55.80	103.30
MCN4-COMP	5	62.215	7.6748	3.432	52.69	71.74
MCN5-COMP	5	36.014	18.4419	8.247	13.12	58.91
TB	5	282.647	62.2234	27.827	205.39	359.91

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-LSD	p-Value
TB	217.3	<.0001*
MCN2-COMP-T	45.94	<.0001*
MCN1-COMP-T	24.24	0.0013*
MCN3-COMP	14.2	0.0065*
BIME-COMP-T-M	1.87	0.0390*
MCN4-COMP	-3.13	0.0748
BIMW-COMP-T-M	-17	0.3412
MCN5-COMP	-29.3	0.8030
BIN-COMP-T	-33.3	0.9201
LA3-REF	-50.6	1.0000

Positive values show pairs of means that are significantly different.



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB049**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

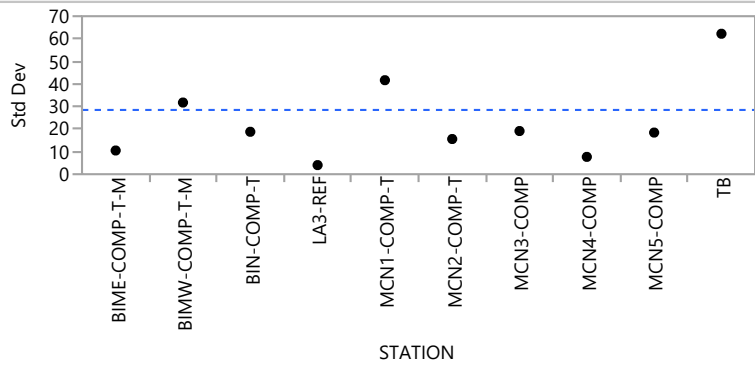
Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	133.000	127.500	26.6000	0.162
BIMW-COMP-T-M	5	96.000	127.500	19.2000	-1.003
BIN-COMP-T	5	65.500	127.500	13.1000	-1.989
LA3-REF	5	25.000	127.500	5.0000	-3.299
MCN1-COMP-T	5	168.500	127.500	33.7000	1.310
MCN2-COMP-T	5	207.000	127.500	41.4000	2.555
MCN3-COMP	5	156.000	127.500	31.2000	0.906
MCN4-COMP	5	122.000	127.500	24.4000	-0.162
MCN5-COMP	5	62.000	127.500	12.4000	-2.102
TB	5	240.000	127.500	48.0000	3.622

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
38.7472	9	<.0001*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif	
			to Mean	to Median
BIME-COMP-T-M	5	10.49948	8.91933	8.18148
BIMW-COMP-T-M	5	31.74797	27.16464	23.99486
BIN-COMP-T	5	18.79359	16.42124	13.80290
LA3-REF	5	4.02817	3.09811	2.65150
MCN1-COMP-T	5	41.64760	28.96258	23.62804
MCN2-COMP-T	5	15.58704	10.47307	9.71532
MCN3-COMP	5	19.12464	13.35984	13.16408
MCN4-COMP	5	7.67479	6.57718	5.95236
MCN5-COMP	5	18.44193	15.67429	14.47718
TB	5	62.22344	50.67032	48.10880

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB049**

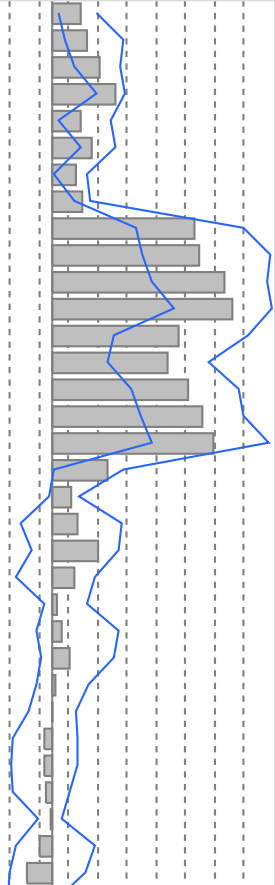
**Tests that the Variances are Equal**

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[5]	3.0542	9	40	0.0071*
Brown-Forsythe	2.2707	9	40	0.0367*
Levene	5.6857	9	40	<.0001*
Bartlett	3.9411	9	.	<.0001*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

		q*	Alpha										
		1.95996	0.05										
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL					
MCN2-COMP-T	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	44.444	10.106	68.957					
MCN2-COMP-T	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	55.293	18.440	110.436					
MCN2-COMP-T	BIN-COMP-T	4.80000	1.909043	2.51435	0.0119*	74.894	34.287	106.749					
MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	99.896	69.185	113.339					
MCN3-COMP	BIN-COMP-T	4.80000	1.909043	2.51435	0.0119*	45.603	9.541	91.035					
MCN3-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	62.650	42.599	97.625					
MCN4-COMP	BIN-COMP-T	4.80000	1.903214	2.52205	0.0117*	36.590	1.208	52.463					
MCN4-COMP	LA3-REF	4.80000	1.909043	2.51435	0.0119*	46.591	34.265	59.054					
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	224.546	131.061	298.082					
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	231.304	139.394	339.561					
TB	BIN-COMP-T	4.80000	1.909043	2.51435	0.0119*	269.976	155.241	335.874					
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	282.955	190.140	342.464					
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	197.728	95.455	307.137					
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	180.749	86.617	243.364					
TB	MCN3-COMP	4.80000	1.914854	2.50672	0.0122*	214.324	122.558	290.950					
TB	MCN4-COMP	4.80000	1.909043	2.51435	0.0119*	236.364	136.617	299.283					
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	253.455	155.118	338.172					
MCN1-COMP-T	LA3-REF	4.40000	1.914854	2.29783	0.0216*	87.500	1.266	110.074					
MCN5-COMP	LA3-REF	4.00000	1.914854	2.08893	0.0367*	29.500	-4.624	41.911					
MCN1-COMP-T	BIMW-COMP-T-M	3.60000	1.914854	1.88004	0.0601	40.449	-49.479	107.171					
MCN1-COMP-T	BIN-COMP-T	3.00000	1.903214	1.57628	0.1150	71.629	-33.632	103.484					
MCN1-COMP-T	BIME-COMP-T-M	2.80000	1.914854	1.46225	0.1437	35.606	-57.813	65.692					
MCN3-COMP	BIME-COMP-T-M	2.40000	1.914854	1.25336	0.2101	7.500	-14.160	53.243					
MCN2-COMP-T	MCN1-COMP-T	2.00000	1.914854	1.04447	0.2963	13.748	-25.500	102.257					
MCN3-COMP	BIMW-COMP-T-M	2.00000	1.914854	1.04447	0.2963	28.000	-18.111	94.722					
MCN4-COMP	BIMW-COMP-T-M	0.40000	1.909043	0.20953	0.8340	4.762	-26.444	56.151					
MCN5-COMP	BIN-COMP-T	-0.40000	1.909043	-0.20953	0.8340	-0.521	-37.681	35.320					
BIN-COMP-T	BIMW-COMP-T-M	-0.80000	1.909043	-0.41906	0.6752	-13.331	-63.035	39.070					
MCN5-COMP	BIMW-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-13.207	-65.333	39.008					
BIMW-COMP-T-M	BIME-COMP-T-M	-1.20000	1.914854	-0.62668	0.5309	-10.849	-62.771	25.243					
MCN4-COMP	BIME-COMP-T-M	-1.20000	1.909043	-0.62859	0.5296	-3.571	-22.493	14.672					
MCN3-COMP	MCN1-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-21.429	-58.560	65.313					
MCN4-COMP	MCN1-COMP-T	-2.80000	1.909043	-1.46670	0.1425	-41.162	-66.893	52.257					

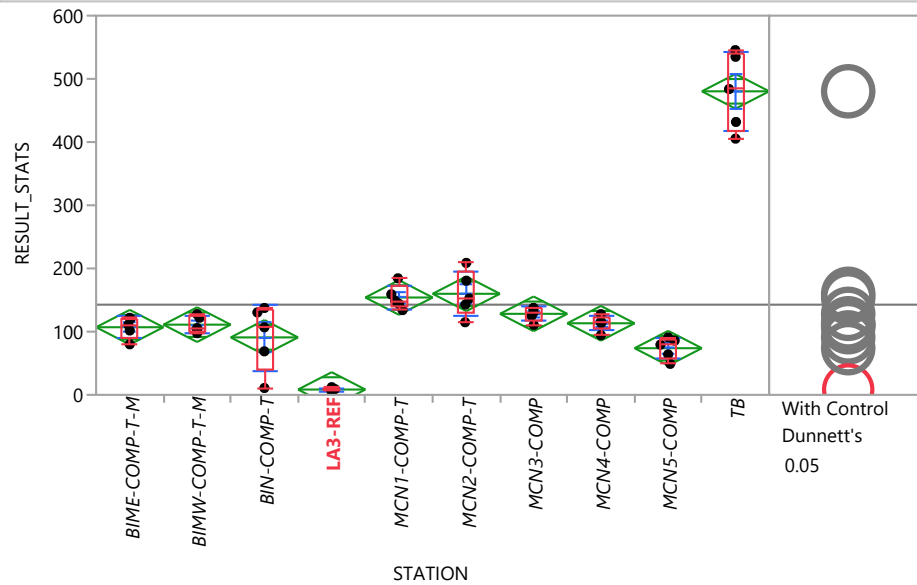


**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB049**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean		Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
		Difference	Std Err Dif						
LA3-REF	BIMW-COMP-T-M	-3.20000	1.914854	-1.67115	0.0947	-48.230	-69.625	6.013	
MCN4-COMP	MCN3-COMP	-3.20000	1.909043	-1.67623	0.0937	-11.071	-54.444	7.540	
LA3-REF	BIN-COMP-T	-3.60000	1.909043	-1.88576	0.0593	-6.591	-41.973	2.325	
MCN5-COMP	MCN1-COMP-T	-3.60000	1.914854	-1.88004	0.0601	-59.663	-105.782	33.756	
MCN3-COMP	MCN2-COMP-T	-4.40000	1.914854	-2.29783	0.0216*	-36.135	-61.825	-1.475	
BIN-COMP-T	BIME-COMP-T-M	-4.80000	1.909043	-2.51435	0.0119*	-37.791	-59.083	-2.409	
LA3-REF	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-54.988	-65.674	-35.467	
MCN4-COMP	MCN2-COMP-T	-4.80000	1.909043	-2.51435	0.0119*	-54.285	-70.158	-15.662	
MCN5-COMP	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-28.909	-61.382	-2.471	
MCN5-COMP	MCN2-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-71.428	-109.047	-34.163	
MCN5-COMP	MCN3-COMP	-4.80000	1.914854	-2.50672	0.0122*	-46.124	-93.333	-9.603	
MCN5-COMP	MCN4-COMP	-4.80000	1.909043	-2.51435	0.0119*	-20.485	-54.762	-1.270	

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB052**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	80	80	90.909	110.811	121.203	121.951	121.951
BIMW-COMP-T-M	97.561	97.561	99.971	105.66	124.889	127.778	127.778
BIN-COMP-T	10.8621	10.8621	39.8573	106.897	133.9675	137.5	137.5
LA3-REF	6.63158	6.63158	6.85954	7.15909	10.65596	12.1935	12.1935
MCN1-COMP-T	134.091	134.091	139.015	148.649	171.7795	184.375	184.375
MCN2-COMP-T	114.894	114.894	128.8755	152.459	194.69	208.824	208.824

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB052**

Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
MCN3-COMP	110.714	110.714	117.857	130.556	137.3545	137.5	137.5
MCN4-COMP	94.4444	94.4444	104.1667	114.286	121.8435	127.778	127.778
MCN5-COMP	49.0566	49.0566	56.5283	79.4118	88.3117	90.9091	90.9091
TB	405.405	405.405	418.6115	483.871	540.1695	545.455	545.455

**Oneway Anova**

**Summary of Fit**

Rsquare	0.95103
Adj Rsquare	0.940012
Root Mean Square Error	30.35873
Mean of Response	142.6958
Observations (or Sum Wgts)	50

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	9	715971.26	79552.4	86.3149	<.0001*
Error	40	36866.09	921.7		
C. Total	49	752837.35			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	107.007	13.577	79.6	134.45
BIMW-COMP-T-M	5	111.076	13.577	83.6	138.52
BIN-COMP-T	5	90.909	13.577	63.5	118.35
LA3-REF	5	8.438	13.577	-19.0	35.88
MCN1-COMP-T	5	154.048	13.577	126.6	181.49
MCN2-COMP-T	5	159.918	13.577	132.5	187.36
MCN3-COMP	5	128.196	13.577	100.8	155.64
MCN4-COMP	5	113.261	13.577	85.8	140.70
MCN5-COMP	5	73.818	13.577	46.4	101.26
TB	5	480.287	13.577	452.8	507.73

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	107.007	17.1387	7.665	85.73	128.29
BIMW-COMP-T-M	5	111.076	13.0947	5.856	94.82	127.34
BIN-COMP-T	5	90.909	52.1599	23.327	26.14	155.67
LA3-REF	5	8.438	2.3070	1.032	5.57	11.30
MCN1-COMP-T	5	154.048	19.2076	8.590	130.20	177.90
MCN2-COMP-T	5	159.918	36.0264	16.111	115.19	204.65
MCN3-COMP	5	128.196	11.0590	4.946	114.46	141.93
MCN4-COMP	5	113.261	11.9715	5.354	98.40	128.13

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB052**

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
MCN5-COMP	5	73.818	17.1350	7.663	52.54	95.09
TB	5	480.287	61.6383	27.565	403.75	556.82

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	417.9	<.0001*
MCN2-COMP-T	97.49	<.0001*
MCN1-COMP-T	91.62	<.0001*
MCN3-COMP	65.77	<.0001*
MCN4-COMP	50.84	<.0001*
BIMW-COMP-T-M	48.65	<.0001*
BIME-COMP-T-M	44.58	<.0001*
BIN-COMP-T	28.48	0.0009*
MCN5-COMP	11.39	0.0111*
LA3-REF	-54	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	101.000	127.500	20.2000	-0.841
BIMW-COMP-T-M	5	108.500	127.500	21.7000	-0.598
BIN-COMP-T	5	101.500	127.500	20.3000	-0.825
LA3-REF	5	16.000	127.500	3.2000	-3.590
MCN1-COMP-T	5	199.000	127.500	39.8000	2.296
MCN2-COMP-T	5	191.000	127.500	38.2000	2.037
MCN3-COMP	5	153.500	127.500	30.7000	0.825
MCN4-COMP	5	114.500	127.500	22.9000	-0.404
MCN5-COMP	5	50.000	127.500	10.0000	-2.490
TB	5	240.000	127.500	48.0000	3.622

**1-Way Test, ChiSquare Approximation**

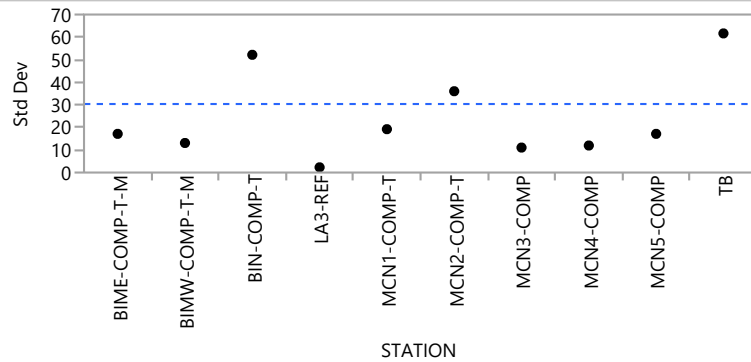
ChiSquare	DF	Prob>ChiSq
40.3083	9	<.0001*

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB052**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	17.13874	12.87840	12.11760
BIMW-COMP-T-M	5	13.09467	11.05040	9.96720
BIN-COMP-T	5	52.15994	40.84162	37.64408
LA3-REF	5	2.30702	1.77435	1.51857
MCN1-COMP-T	5	19.20760	14.18552	13.10580
MCN2-COMP-T	5	36.02638	27.81760	26.32580
MCN3-COMP	5	11.05897	8.27104	7.79900
MCN4-COMP	5	11.97147	7.52675	7.07072
MCN5-COMP	5	17.13504	13.83205	12.71336
TB	5	61.63827	49.34008	48.62320

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	3.3135	9	40	0.0041*
Brown-Forsythe	3.4277	9	40	0.0033*
Levene	5.7096	9	40	<.0001*
Bartlett	4.5104	9	.	<.0001*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*	Alpha
1.95996	0.05

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB052**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

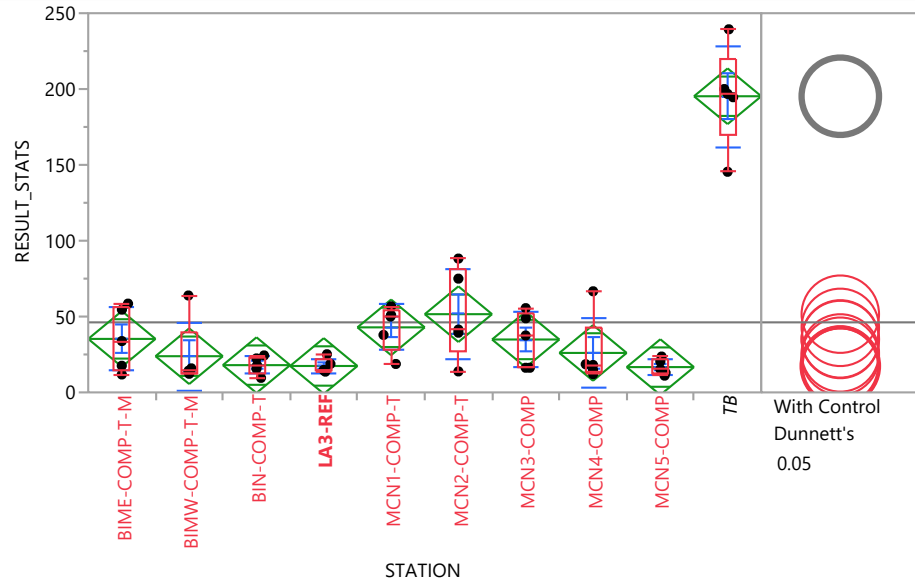
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
MCN1-COMP-T	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	42.121	13.636	82.557	
MCN1-COMP-T	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	41.558	12.091	81.994	
MCN1-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	141.490	124.973	177.288	
MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	145.300	105.776	201.737	
MCN3-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	123.397	101.596	130.577	
MCN4-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	106.802	85.326	120.691	
MCN5-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	72.253	39.938	83.822	
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	373.060	284.950	454.884	
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	378.211	283.405	443.074	
TB	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	397.384	274.970	524.022	
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	476.712	396.287	538.368	
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	335.222	246.221	401.516	
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	326.060	222.994	419.990	
TB	MCN3-COMP	4.80000	1.914854	2.50672	0.0122*	353.315	268.196	424.170	
TB	MCN4-COMP	4.80000	1.914854	2.50672	0.0122*	369.585	289.496	440.440	
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	404.459	319.691	485.827	
MCN1-COMP-T	BIN-COMP-T	4.40000	1.914854	2.29783	0.0216*	52.287	3.656	148.322	
MCN2-COMP-T	BIME-COMP-T-M	4.00000	1.914854	2.08893	0.0367*	50.641	-5.561	107.006	
MCN2-COMP-T	BIMW-COMP-T-M	4.00000	1.914854	2.08893	0.0367*	46.799	-7.106	106.443	
MCN2-COMP-T	BIN-COMP-T	4.00000	1.914854	2.08893	0.0367*	71.324	-15.541	169.694	
MCN3-COMP	BIME-COMP-T-M	3.60000	1.914854	1.88004	0.0601	17.045	-9.741	57.209	
MCN3-COMP	BIMW-COMP-T-M	3.60000	1.914854	1.88004	0.0601	15.500	-11.286	39.648	
MCN3-COMP	BIN-COMP-T	2.20000	1.909043	1.15241	0.2492	23.659	-19.721	126.347	
BIMW-COMP-T-M	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	1.545	-22.894	42.000	
MCN4-COMP	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	5.098	-26.011	35.909	
MCN4-COMP	BIN-COMP-T	0.40000	1.914854	0.20889	0.8345	7.389	-35.991	105.047	
MCN4-COMP	BIMW-COMP-T-M	0.20000	1.909043	0.10476	0.9166	5.778	-27.556	25.397	
BIN-COMP-T	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-3.914	-109.593	50.435	
BIN-COMP-T	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	1.237	-111.138	35.119	
MCN2-COMP-T	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	3.810	-44.290	64.885	
MCN5-COMP	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-27.485	-81.378	74.852	
MCN4-COMP	MCN3-COMP	-2.80000	1.914854	-1.46225	0.1437	-16.270	-42.765	5.195	
MCN3-COMP	MCN2-COMP-T	-3.20000	1.914854	-1.67115	0.0947	-27.459	-83.824	22.315	
MCN3-COMP	MCN1-COMP-T	-4.00000	1.914854	-2.08893	0.0367*	-21.975	-59.375	3.118	
MCN4-COMP	MCN2-COMP-T	-4.00000	1.914854	-2.08893	0.0367*	-38.570	-94.935	1.015	
MCN5-COMP	BIME-COMP-T-M	-4.00000	1.914854	-2.08893	0.0367*	-31.399	-71.398	5.714	
LA3-REF	BIN-COMP-T	-4.40000	1.914854	-2.29783	0.0216*	-99.738	-130.413	-1.744	
LA3-REF	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-103.652	-114.864	-70.882	
LA3-REF	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-98.501	-120.691	-88.443	
MCN4-COMP	MCN1-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-34.760	-70.486	-16.161	
MCN5-COMP	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-36.869	-72.943	-11.472	
MCN5-COMP	MCN1-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-79.772	-120.375	-48.377	
MCN5-COMP	MCN2-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-88.459	-144.824	-29.180	
MCN5-COMP	MCN3-COMP	-4.80000	1.914854	-2.50672	0.0122*	-51.495	-88.152	-25.000	

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB052**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
MCN5-COMP	MCN4-COMP	-4.80000	1.914854	-2.50672	0.0122*	-36.497	-66.852	-8.730

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB056**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	11.8182	11.8182	14.6929	33.8462	56.54105	58.5366	58.5366
BIMW-COMP-T-M	12.2642	12.2642	12.6321	14.2857	39.8713	63.8889	63.8889
BIN-COMP-T	9.59016	9.59016	12.56683	17.931	23.3944	24.375	24.375
LA3-REF	13.6842	13.6842	14.1546	14.7727	21.98855	25.1613	25.1613
MCN1-COMP-T	18.75	18.75	28.3144	50	53.8886	56.7568	56.7568
MCN2-COMP-T	13.8298	13.8298	26.58705	41.4286	81.61765	88.2353	88.2353
MCN3-COMP	16.25	16.25	16.25	37.5	52.1964	55.5556	55.5556
MCN4-COMP	12.037	12.037	13.40485	18.0556	42.61905	66.6667	66.6667
MCN5-COMP	11.0377	11.0377	12.01885	15.2941	22.0325	23.6364	23.6364
TB	145.455	145.455	170.025	196.774	219.697	239.394	239.394



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB056**

**Oneway Anova**

**Summary of Fit**

Rsquare	0.887111
Adj Rsquare	0.861711
Root Mean Square Error	20.29946
Mean of Response	46.17748
Observations (or Sum Wgts)	50

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	9	129525.41	14391.7	34.9256	<.0001*
Error	40	16482.72	412.1		
C. Total	49	146008.13			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	35.263	9.0782	16.9	53.61
BIMW-COMP-T-M	5	23.859	9.0782	5.5	42.21
BIN-COMP-T	5	17.971	9.0782	-0.377	36.32
LA3-REF	5	17.412	9.0782	-0.9359	35.76
MCN1-COMP-T	5	42.881	9.0782	24.5	61.23
MCN2-COMP-T	5	51.568	9.0782	33.2	69.92
MCN3-COMP	5	34.879	9.0782	16.5	53.23
MCN4-COMP	5	26.021	9.0782	7.7	44.37
MCN5-COMP	5	16.679	9.0782	-1.7	35.03
TB	5	195.244	9.0782	176.9	213.59

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	35.263	21.0848	9.429	9.1	61.44
BIMW-COMP-T-M	5	23.859	22.4192	10.026	-4.0	51.70
BIN-COMP-T	5	17.971	5.8498	2.616	10.7	25.23
LA3-REF	5	17.412	4.7606	2.129	11.5	23.32
MCN1-COMP-T	5	42.881	15.1393	6.771	24.1	61.68
MCN2-COMP-T	5	51.568	29.8745	13.360	14.5	88.66
MCN3-COMP	5	34.879	18.1886	8.134	12.3	57.46
MCN4-COMP	5	26.021	22.8752	10.230	-2.4	54.42
MCN5-COMP	5	16.679	5.2379	2.342	10.2	23.18
TB	5	195.244	33.3675	14.922	153.8	236.67

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB056**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**Confidence Quantile**

d	Alpha
2.81175	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	141.7	<.0001*
MCN2-COMP-T	-1.94	0.0710
MCN1-COMP-T	-10.6	0.2789
BIME-COMP-T-M	-18.2	0.6587
MCN3-COMP	-18.6	0.6803
MCN4-COMP	-27.5	0.9902
BIMW-COMP-T-M	-29.7	0.9987
BIN-COMP-T	-35.5	1.0000
LA3-REF	-36.1	1.0000
MCN5-COMP	-35.4	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	131.000	127.500	26.2000	0.097
BIMW-COMP-T-M	5	79.500	127.500	15.9000	-1.536
BIN-COMP-T	5	90.000	127.500	18.0000	-1.197
LA3-REF	5	84.500	127.500	16.9000	-1.374
MCN1-COMP-T	5	168.000	127.500	33.6000	1.294
MCN2-COMP-T	5	165.000	127.500	33.0000	1.197
MCN3-COMP	5	140.000	127.500	28.0000	0.388
MCN4-COMP	5	102.500	127.500	20.5000	-0.792
MCN5-COMP	5	74.500	127.500	14.9000	-1.698
TB	5	240.000	127.500	48.0000	3.622

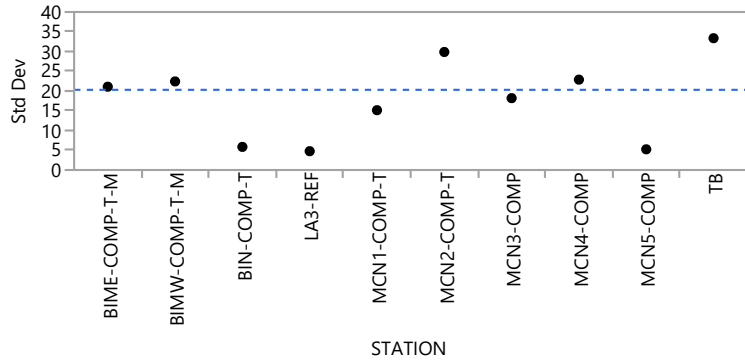
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
23.4053	9	0.0053*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB056**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	21.08476	17.02258	16.73926
BIMW-COMP-T-M	5	22.41921	16.01216	10.89568
BIN-COMP-T	5	5.84984	4.33897	4.33103
LA3-REF	5	4.76057	3.66140	3.13358
MCN1-COMP-T	5	15.13931	11.65344	10.22968
MCN2-COMP-T	5	29.87452	24.04004	22.01224
MCN3-COMP	5	18.18861	14.90285	14.37856
MCN4-COMP	5	22.87517	16.25841	11.68568
MCN5-COMP	5	5.23789	4.28251	4.00546
TB	5	33.36746	20.17488	19.86880

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.0815	9	40	0.3973
Brown-Forsythe	0.9475	9	40	0.4962
Levene	1.8399	9	40	0.0907
Bartlett	2.6968	9	.	0.0039*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

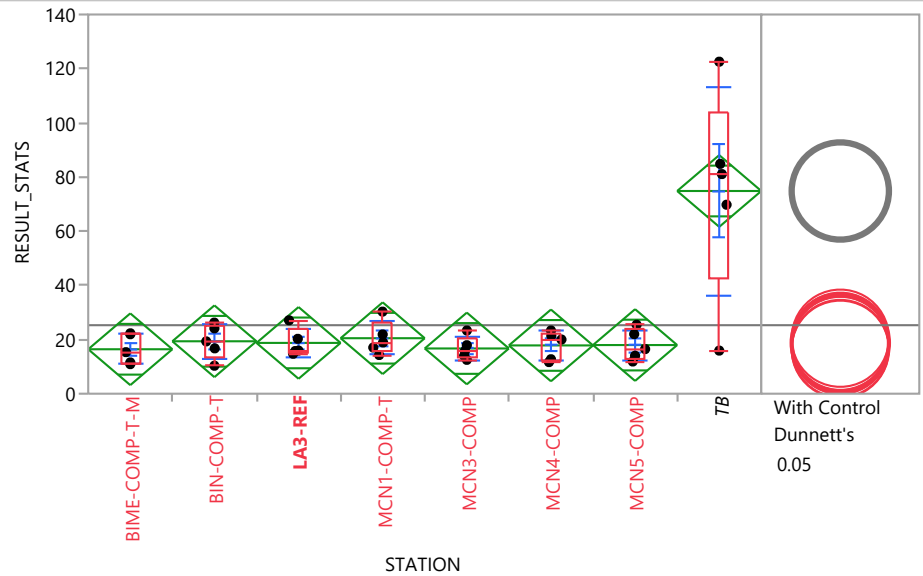
		q*	Alpha						
		1.95996	0.05						
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	162.928	90.910	221.8264	
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	181.595	129.601	226.3940	
TB	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	178.843	123.041	223.8505	
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	180.911	126.639	224.7690	
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	148.980	94.435	201.5152	
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	153.166	70.455	200.0497	
TB	MCN3-COMP	4.80000	1.909043	2.51435	0.0119*	159.274	96.618	223.1440	

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB056**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean		Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
		Difference	Std Err Dif						
TB	MCN4-COMP	4.80000	1.914854	2.50672	0.0122*	178.718	126.884	224.6213	
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	181.480	125.026	226.3940	
MCN1-COMP-T	BIN-COMP-T	4.00000	1.914854	2.08893	0.0367*	28.289	-3.664	41.4302	
MCN1-COMP-T	LA3-REF	4.00000	1.914854	2.08893	0.0367*	31.184	-0.066	42.1318	
MCN2-COMP-T	BIN-COMP-T	3.20000	1.914854	1.67115	0.0947	25.885	-8.584	72.6918	
MCN2-COMP-T	LA3-REF	3.20000	1.914854	1.67115	0.0947	26.656	-4.986	73.6103	
MCN3-COMP	LA3-REF	3.20000	1.909043	1.67623	0.0937	22.727	-8.911	40.9306	
MCN1-COMP-T	BIMW-COMP-T-M	2.80000	1.914854	1.46225	0.1437	25.615	-26.010	43.7568	
MCN2-COMP-T	BIMW-COMP-T-M	2.80000	1.914854	1.46225	0.1437	26.344	-24.545	75.2353	
MCN3-COMP	BIMW-COMP-T-M	2.80000	1.909043	1.46670	0.1425	3.986	-47.639	42.5556	
MCN3-COMP	BIN-COMP-T	2.40000	1.909043	1.25717	0.2087	19.569	-8.125	40.0121	
MCN2-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	20.455	-40.716	70.6677	
LA3-REF	BIMW-COMP-T-M	1.20000	1.914854	0.62668	0.5309	1.420	-49.264	12.1613	
MCN4-COMP	BIMW-COMP-T-M	1.20000	1.914854	0.62668	0.5309	2.509	-49.116	53.6667	
BIN-COMP-T	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	2.544	-48.345	11.3750	
MCN1-COMP-T	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	4.033	-35.796	39.2022	
MCN2-COMP-T	MCN1-COMP-T	0.40000	1.914854	0.20889	0.8345	3.550	-37.191	56.2500	
MCN4-COMP	LA3-REF	0.20000	1.909043	0.10476	0.9166	0.148	-10.389	52.0417	
MCN3-COMP	BIME-COMP-T-M	0.00000	1.909043	0.00000	1.0000	-1.318	-42.287	37.9880	
MCN4-COMP	BIN-COMP-T	0.00000	1.914854	0.00000	1.0000	0.125	-10.377	51.1232	
MCN5-COMP	BIMW-COMP-T-M	0.00000	1.909043	0.00000	1.0000	0.000	-50.889	10.6364	
LA3-REF	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.919	-9.750	9.6178	
MCN4-COMP	BIME-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-5.531	-43.764	49.0991	
MCN5-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-1.525	-12.161	9.0114	
MCN5-COMP	MCN4-COMP	-0.40000	1.914854	-0.20889	0.8345	-1.773	-53.667	8.8637	
MCN5-COMP	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-1.985	-11.376	10.8384	
BIMW-COMP-T-M	BIME-COMP-T-M	-1.20000	1.914854	-0.62668	0.5309	-5.303	-45.537	46.3213	
MCN3-COMP	MCN2-COMP-T	-1.20000	1.909043	-0.62859	0.5296	-23.094	-71.985	35.0074	
MCN4-COMP	MCN3-COMP	-1.20000	1.909043	-0.62859	0.5296	-4.213	-40.783	50.4167	
BIN-COMP-T	BIME-COMP-T-M	-2.00000	1.914854	-1.04447	0.2963	-15.915	-44.955	10.5956	
LA3-REF	BIME-COMP-T-M	-2.00000	1.914854	-1.04447	0.2963	-19.074	-43.912	7.5937	
MCN3-COMP	MCN1-COMP-T	-2.00000	1.909043	-1.04765	0.2948	-2.500	-40.507	30.0872	
MCN4-COMP	MCN2-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-23.373	-73.463	27.3224	
MCN5-COMP	BIME-COMP-T-M	-2.40000	1.914854	-1.25336	0.2101	-18.552	-45.537	8.6104	
MCN4-COMP	MCN1-COMP-T	-2.80000	1.914854	-1.46225	0.1437	-25.842	-41.984	28.7879	
MCN5-COMP	MCN3-COMP	-3.20000	1.909043	-1.67623	0.0937	-22.206	-42.556	7.3864	
MCN5-COMP	MCN2-COMP-T	-3.60000	1.914854	-1.88004	0.0601	-28.307	-75.235	6.5988	
MCN5-COMP	MCN1-COMP-T	-4.00000	1.914854	-2.08893	0.0367*	-29.571	-43.757	1.6786	

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB060**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	10.9091	10.9091	11.2238	15.3409	22.12425	22.2973	22.2973
BIN-COMP-T	10.3279	10.3279	13.5335	19.3103	25.19395	26.25	26.25
LA3-REF	14.7368	14.7368	15.2434	15.9091	23.68	27.0968	27.0968
MCN1-COMP-T	14.2857	14.2857	15.6656	18.9189	26.089	30.303	30.303
MCN3-COMP	12.5	12.5	13.25	15.75	20.62015	23.3333	23.3333
MCN4-COMP	11.6667	11.6667	12.197	20	22.3611	23.3333	23.3333
MCN5-COMP	11.8868	11.8868	12.9434	16.4706	23.72725	25.4545	25.4545
TB	15.9091	15.9091	42.83825	81.0811	103.7148	122.581	122.581

**Oneway Anova**

**Summary of Fit**

Rsquare	0.675711
Adj Rsquare	0.604773
Root Mean Square Error	14.53721
Mean of Response	25.28979
Observations (or Sum Wgts)	40

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	7	14091.005	2013.00	9.5254	<.0001*
Error	32	6762.579	211.33		
C. Total	39	20853.584			

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB060**

**Oneway Anova**

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	16.4074	6.5012	3.165	29.650
BIN-COMP-T	5	19.3530	6.5012	6.110	32.596
LA3-REF	5	18.7512	6.5012	5.509	31.994
MCN1-COMP-T	5	20.4856	6.5012	7.243	33.728
MCN3-COMP	5	16.6981	6.5012	3.455	29.941
MCN4-COMP	5	17.8232	6.5012	4.581	31.066
MCN5-COMP	5	17.9624	6.5012	4.720	31.205
TB	5	74.8374	6.5012	61.595	88.080

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	16.4074	5.4886	2.455	9.592	23.22
BIN-COMP-T	5	19.3530	6.2998	2.817	11.531	27.18
LA3-REF	5	18.7512	5.1268	2.293	12.385	25.12
MCN1-COMP-T	5	20.4856	6.1449	2.748	12.856	28.12
MCN3-COMP	5	16.6981	4.2217	1.888	11.456	21.94
MCN4-COMP	5	17.8232	5.2840	2.363	11.262	24.38
MCN5-COMP	5	17.9624	5.6408	2.523	10.958	24.97
TB	5	74.8374	38.4607	17.200	27.082	122.59

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.76173	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	30.69	<.0001*
MCN1-COMP-T	-23.7	1.0000
BIN-COMP-T	-24.8	1.0000
LA3-REF	-25.4	1.0000
MCN5-COMP	-24.6	1.0000
MCN4-COMP	-24.5	1.0000
MCN3-COMP	-23.3	1.0000
BIME-COMP-T-M	-23	0.9999

Positive values show pairs of means that are significantly different.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB060**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

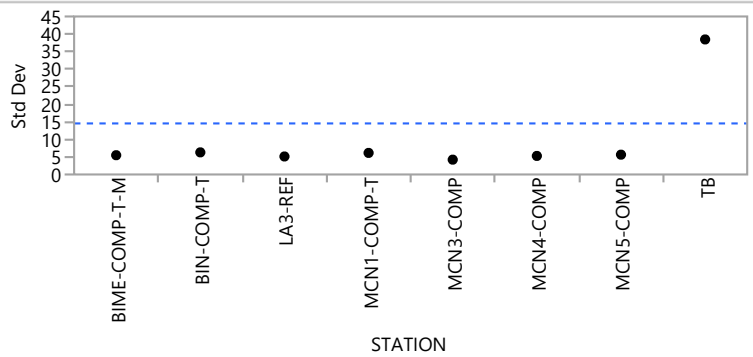
Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	73.000	102.500	14.6000	-1.186
BIN-COMP-T	5	107.000	102.500	21.4000	0.164
LA3-REF	5	99.000	102.500	19.8000	-0.123
MCN1-COMP-T	5	112.000	102.500	22.4000	0.368
MCN3-COMP	5	78.500	102.500	15.7000	-0.961
MCN4-COMP	5	89.500	102.500	17.9000	-0.511
MCN5-COMP	5	91.500	102.500	18.3000	-0.429
TB	5	169.500	102.500	33.9000	2.720

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
9.2932	7	0.2323

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif	MeanAbsDif
			to Mean	to Median
BIME-COMP-T-M	5	5.48861	4.57348	4.36018
BIN-COMP-T	5	6.29981	4.67273	4.66418
LA3-REF	5	5.12678	3.94306	3.37464
MCN1-COMP-T	5	6.14490	4.48270	4.16936
MCN3-COMP	5	4.22167	3.13767	2.94806
MCN4-COMP	5	5.28405	4.50099	4.06564
MCN5-COMP	5	5.64076	4.61190	4.31354
TB	5	38.46072	25.59934	24.35060

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB060**

**Tests that the Variances are Equal**

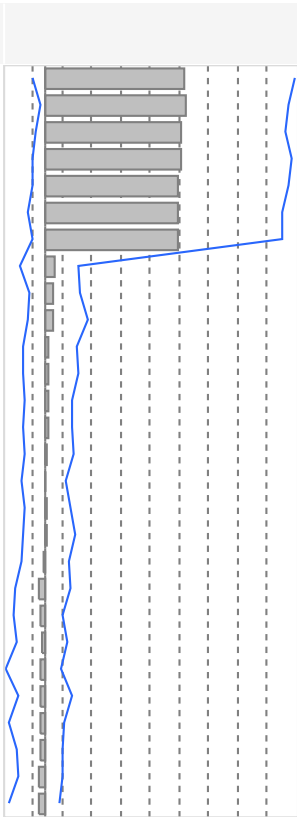
Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.9205	7	32	0.0987
Brown-Forsythe	2.3684	7	32	0.0454*
Levene	3.2206	7	32	0.0106*
Bartlett	6.2023	7	.	<.0001*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

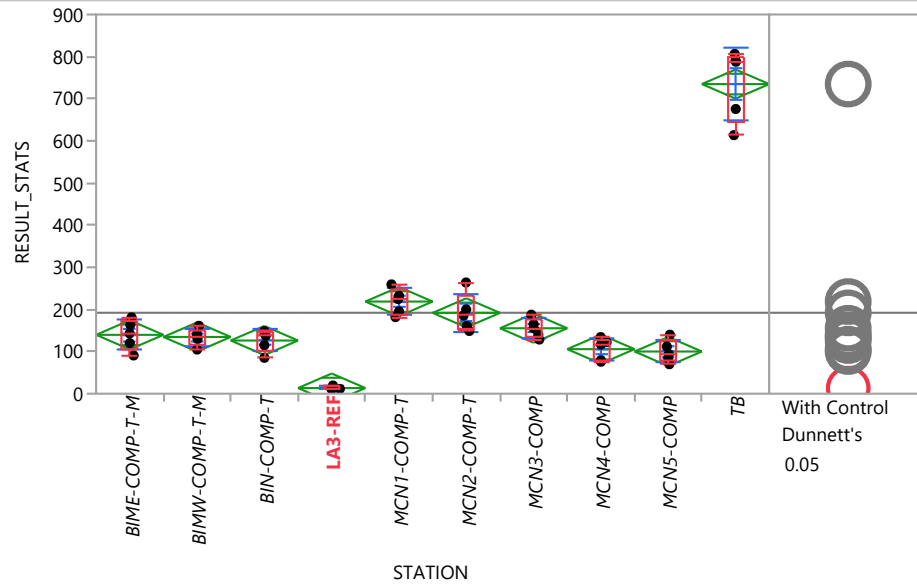
q\* 1.95996  
Alpha 0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	BIME-COMP-T-M	4.00000	1.914854	2.08893	0.0367*	62.5512	-6.0421	111.0425
TB	MCN3-COMP	4.00000	1.914854	2.08893	0.0367*	63.1741	-1.9979	108.5810
TB	LA3-REF	3.80000	1.909043	1.99053	0.0465*	60.8179	-4.3541	106.8310
TB	MCN4-COMP	3.60000	1.914854	1.88004	0.0601	61.0811	-5.4798	109.8537
TB	MCN5-COMP	3.60000	1.914854	1.88004	0.0601	59.3940	-6.0909	108.5810
TB	BIN-COMP-T	3.20000	1.914854	1.67115	0.0947	59.4395	-8.2288	105.8419
TB	MCN1-COMP-T	3.20000	1.914854	1.67115	0.0947	59.2061	-5.9659	105.5355
BIN-COMP-T	BIME-COMP-T-M	1.20000	1.914854	0.62668	0.5309	3.9527	-11.6233	14.7115
LA3-REF	BIME-COMP-T-M	1.20000	1.914854	0.62668	0.5309	3.8277	-7.2144	15.5583
MCN1-COMP-T	BIME-COMP-T-M	1.20000	1.914854	0.62668	0.5309	3.5780	-7.6655	18.7645
MCN5-COMP	BIME-COMP-T-M	1.20000	1.914854	0.62668	0.5309	1.1297	-10.0644	13.9160
MCN1-COMP-T	LA3-REF	0.80000	1.914854	0.41779	0.6761	1.6118	-10.0513	14.5530
MCN3-COMP	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	1.0360	-9.4512	11.7948
MCN4-COMP	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	1.0360	-10.2845	11.7948
MCN5-COMP	MCN4-COMP	0.40000	1.914854	0.20889	0.8345	0.6111	-9.5021	12.7272
MCN4-COMP	MCN3-COMP	0.20000	1.909043	0.10476	0.9166	0.2273	-10.6060	9.3333
MCN5-COMP	MCN3-COMP	0.20000	1.909043	0.10476	0.9166	0.7206	-9.3333	11.4545
MCN1-COMP-T	BIN-COMP-T	0.00000	1.914854	0.00000	1.0000	0.3064	-9.8522	13.5639
LA3-REF	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.9891	-10.5000	10.3577
MCN4-COMP	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-2.7490	-13.5227	11.0610
MCN4-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-2.0095	-14.3695	7.5833
MCN5-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-1.6423	-13.0968	9.7045
MCN4-COMP	MCN1-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-1.8750	-17.5757	7.1032
MCN5-COMP	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-2.1379	-12.2511	11.6721
MCN5-COMP	MCN1-COMP-T	-1.20000	1.914854	-0.62668	0.5309	-2.4483	-16.3030	8.4090
MCN3-COMP	LA3-REF	-1.40000	1.909043	-0.73335	0.4633	-1.9091	-13.0968	7.5833
MCN3-COMP	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-2.9167	-12.2500	7.5791
MCN3-COMP	MCN1-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-3.1689	-16.3030	6.2878





**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB066**



Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	90.7692	90.7692	105.3846	143.182	172.248	181.081	181.081
BIMW-COMP-T-M	104.878	104.878	117.439	135.714	151.31	161.111	161.111
BIN-COMP-T	85.2459	85.2459	100.2315	137.5	146.552	148.276	148.276
LA3-REF	10.5263	10.5263	10.88815	11.3636	16.91425	19.3548	19.3548
MCN1-COMP-T	181.818	181.818	188.6365	224.49	245.9035	259.375	259.375
MCN2-COMP-T	148.936	148.936	154.796	185.714	231.9445	263.889	263.889
MCN3-COMP	128.571	128.571	134.2855	155.556	176.308	187.5	187.5
MCN4-COMP	75.9259	75.9259	77.7357	116.667	128.254	134.286	134.286
MCN5-COMP	70	70	77.45285	93.9394	125.8825	140	140
TB	613.636	613.636	644.656	787.879	798.575	806.452	806.452

**Oneway Anova**

**Summary of Fit**

Rsquare	0.968116
Adj Rsquare	0.960942
Root Mean Square Error	38.22389
Mean of Response	192.056
Observations (or Sum Wgts)	50

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB066**

**Oneway Anova**

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	9	1774507.1	197167	134.9477	<.0001*
Error	40	58442.6	1461		
C. Total	49	1832949.7			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	139.689	17.094	105.1	174.24
BIMW-COMP-T-M	5	134.642	17.094	100.1	169.19
BIN-COMP-T	5	126.213	17.094	91.7	160.76
LA3-REF	5	13.394	17.094	-21.2	47.94
MCN1-COMP-T	5	218.714	17.094	184.2	253.26
MCN2-COMP-T	5	191.839	17.094	157.3	226.39
MCN3-COMP	5	155.349	17.094	120.8	189.90
MCN4-COMP	5	105.729	17.094	71.2	140.28
MCN5-COMP	5	100.122	17.094	65.6	134.67
TB	5	734.868	17.094	700.3	769.42

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	139.689	35.5992	15.920	95.49	183.89
BIMW-COMP-T-M	5	134.642	20.3492	9.100	109.38	159.91
BIN-COMP-T	5	126.213	26.2674	11.747	93.60	158.83
LA3-REF	5	13.394	3.6620	1.638	8.85	17.94
MCN1-COMP-T	5	218.714	30.7293	13.743	180.56	256.87
MCN2-COMP-T	5	191.839	45.0232	20.135	135.94	247.74
MCN3-COMP	5	155.349	22.8132	10.202	127.02	183.67
MCN4-COMP	5	105.729	26.3674	11.792	72.99	138.47
MCN5-COMP	5	100.122	26.9393	12.048	66.67	133.57
TB	5	734.868	85.5165	38.244	628.69	841.05

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB066**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	653.5	<.0001*
MCN1-COMP-T	137.3	<.0001*
MCN2-COMP-T	110.5	<.0001*
MCN3-COMP	73.98	<.0001*
BIME-COMP-T-M	58.32	<.0001*
BIMW-COMP-T-M	53.27	<.0001*
BIN-COMP-T	44.85	0.0003*
MCN4-COMP	24.36	0.0035*
MCN5-COMP	18.75	0.0067*
LA3-REF	-68	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	125.000	127.500	25.0000	-0.065
BIMW-COMP-T-M	5	114.000	127.500	22.8000	-0.420
BIN-COMP-T	5	105.000	127.500	21.0000	-0.711
LA3-REF	5	15.000	127.500	3.0000	-3.622
MCN1-COMP-T	5	206.000	127.500	41.2000	2.522
MCN2-COMP-T	5	186.000	127.500	37.2000	1.876
MCN3-COMP	5	148.500	127.500	29.7000	0.663
MCN4-COMP	5	70.000	127.500	14.0000	-1.843
MCN5-COMP	5	65.500	127.500	13.1000	-1.989
TB	5	240.000	127.500	48.0000	3.622

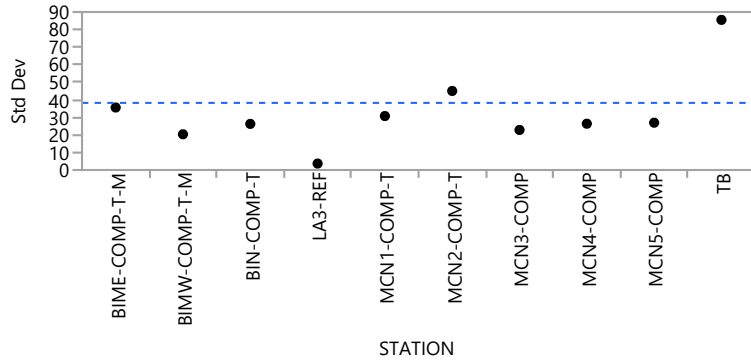
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
40.6448	9	<.0001*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB066**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	35.59925	27.44387	26.74536
BIMW-COMP-T-M	5	20.34918	13.76272	13.54840
BIN-COMP-T	5	26.26740	20.78554	18.52822
LA3-REF	5	3.66196	2.81646	2.41044
MCN1-COMP-T	5	30.72930	24.06200	22.90680
MCN2-COMP-T	5	45.02324	32.08440	30.85940
MCN3-COMP	5	22.81325	16.85048	16.80900
MCN4-COMP	5	26.36741	22.39486	20.20732
MCN5-COMP	5	26.93933	20.60838	19.37186
TB	5	85.51654	72.16976	61.56760

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	3.2537	9	40	0.0047*
Brown-Forsythe	1.3137	9	40	0.2605
Levene	5.8697	9	40	<.0001*
Bartlett	3.1827	9	.	0.0007*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

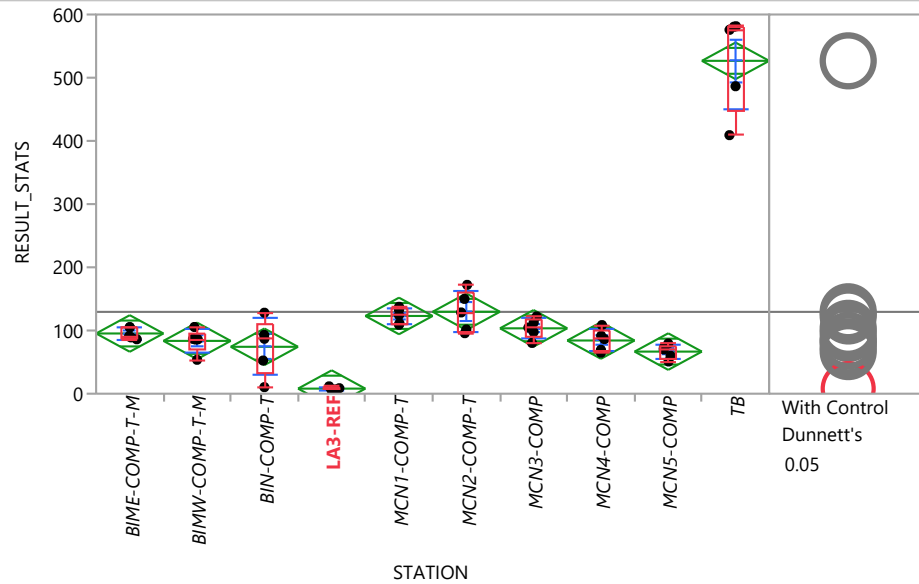
q*		Alpha								
1.95996		0.05								
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL		
MCN1-COMP-T	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	78.294	14.374	141.663		
MCN1-COMP-T	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	88.776	34.344	129.375		
MCN1-COMP-T	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	87.604	36.990	147.186		
MCN1-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	213.077	167.344	248.125		
MCN2-COMP-T	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	55.172	4.108	148.672		
MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	174.350	134.462	252.639		
MCN3-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	144.192	114.097	176.250		

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB066**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean		Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
		Difference	Std Err Dif						
MCN4-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	102.867	60.191	123.036	
MCN5-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	82.576	55.526	128.750	
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	624.464	450.221	699.929	
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	645.341	472.127	685.820	
TB	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	643.051	468.808	705.452	
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	773.405	599.162	795.202	
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	547.077	381.204	610.997	
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	542.563	411.787	645.796	
TB	MCN3-COMP	4.80000	1.914854	2.50672	0.0122*	618.952	448.520	666.452	
TB	MCN4-COMP	4.80000	1.914854	2.50672	0.0122*	665.657	491.414	726.907	
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	666.452	501.871	721.546	
MCN2-COMP-T	BIMW-COMP-T-M	4.00000	1.914854	2.08893	0.0367*	50.000	-0.455	133.889	
MCN2-COMP-T	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	42.532	-20.425	143.889	
MCN3-COMP	BIN-COMP-T	2.80000	1.914854	1.46225	0.1437	24.783	-16.257	79.870	
MCN3-COMP	BIMW-COMP-T-M	2.00000	1.914854	1.04447	0.2963	23.607	-21.111	60.238	
MCN3-COMP	BIME-COMP-T-M	1.20000	1.914854	0.62668	0.5309	12.374	-41.081	74.347	
BIN-COMP-T	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-4.009	-56.263	39.950	
MCN5-COMP	MCN4-COMP	-0.40000	1.914854	-0.20889	0.8345	-5.926	-52.222	60.455	
BIMW-COMP-T-M	BIME-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-7.468	-58.537	50.740	
BIN-COMP-T	BIME-COMP-T-M	-1.20000	1.914854	-0.62668	0.5309	-15.139	-78.169	54.059	
MCN2-COMP-T	MCN1-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-32.882	-98.719	68.434	
MCN3-COMP	MCN2-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-30.158	-123.889	26.844	
MCN4-COMP	BIN-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-20.833	-68.902	36.976	
MCN4-COMP	BIME-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-40.455	-101.536	31.453	
MCN5-COMP	BIN-COMP-T	-2.80000	1.914854	-1.46225	0.1437	-30.311	-74.828	26.519	
MCN4-COMP	BIMW-COMP-T-M	-3.20000	1.914854	-1.67115	0.0947	-25.333	-81.566	17.344	
MCN5-COMP	BIME-COMP-T-M	-3.20000	1.914854	-1.67115	0.0947	-41.081	-96.175	20.996	
MCN5-COMP	BIMW-COMP-T-M	-3.20000	1.914854	-1.67115	0.0947	-36.061	-76.205	10.000	
MCN5-COMP	MCN3-COMP	-4.20000	1.909043	-2.20006	0.0278*	-55.094	-102.594	0.000	
MCN3-COMP	MCN1-COMP-T	-4.40000	1.914854	-2.29783	0.0216*	-66.884	-119.375	-7.955	
MCN4-COMP	MCN3-COMP	-4.40000	1.914854	-2.29783	0.0216*	-49.026	-107.955	-5.714	
LA3-REF	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-131.818	-169.831	-76.296	
LA3-REF	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-122.154	-149.861	-90.404	
LA3-REF	BIN-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-125.473	-137.026	-70.772	
MCN4-COMP	MCN1-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-110.210	-179.830	-59.596	
MCN4-COMP	MCN2-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-77.778	-184.344	-26.370	
MCN5-COMP	MCN1-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-119.375	-174.469	-55.455	
MCN5-COMP	MCN2-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-88.235	-178.983	-20.656	

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB070**



Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	86.1538	86.1538	87.62235	90.9091	105.1415	105.405	105.405
BIMW-COMP-T-M	53.6585	53.6585	69.6864	86	96.1742	105.556	105.556
BIN-COMP-T	10.3448	10.3448	31.4019	86.9565	110.6142	128.125	128.125
LA3-REF	6.31579	6.31579	6.532895	6.81818	10.14856	11.6129	11.6129
MCN1-COMP-T	109.091	109.091	110.2275	124.324	135.0765	137.5	137.5
MCN2-COMP-T	95.7447	95.7447	98.69185	128.571	161.111	172.222	172.222
MCN3-COMP	80.3571	80.3571	88.92855	104.651	117.361	122.222	122.222
MCN4-COMP	64.8148	64.8148	67.1296	86.3636	100.1189	108.571	108.571
MCN5-COMP	50.9434	50.9434	55.4717	70	76.06955	79.4118	79.4118
TB	409.091	409.091	447.7885	575.758	581.02	581.395	581.395

**Oneway Anova**

**Summary of Fit**

Rsquare	0.957644
Adj Rsquare	0.948113
Root Mean Square Error	32.03092
Mean of Response	129.4597
Observations (or Sum Wgts)	50

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB070**

**Oneway Anova**

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	9	927862.00	103096	100.4852	<.0001*
Error	40	41039.20	1026		
C. Total	49	968901.20			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	95.287	14.325	66.3	124.24
BIMW-COMP-T-M	5	83.544	14.325	54.6	112.50
BIN-COMP-T	5	74.198	14.325	45.2	103.15
LA3-REF	5	8.036	14.325	-20.9	36.99
MCN1-COMP-T	5	122.986	14.325	94.0	151.94
MCN2-COMP-T	5	129.635	14.325	100.7	158.59
MCN3-COMP	5	103.446	14.325	74.5	132.40
MCN4-COMP	5	84.172	14.325	55.2	113.12
MCN5-COMP	5	66.617	14.325	37.7	95.57
TB	5	526.675	14.325	497.7	555.63

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	95.287	9.1561	4.095	83.92	106.66
BIMW-COMP-T-M	5	83.544	18.7014	8.364	60.32	106.77
BIN-COMP-T	5	74.198	44.6602	19.973	18.74	129.65
LA3-REF	5	8.036	2.1972	0.983	5.31	10.76
MCN1-COMP-T	5	122.986	12.5901	5.630	107.35	138.62
MCN2-COMP-T	5	129.635	32.2562	14.425	89.58	169.69
MCN3-COMP	5	103.446	15.8463	7.087	83.77	123.12
MCN4-COMP	5	84.172	17.6627	7.899	62.24	106.10
MCN5-COMP	5	66.617	11.2019	5.010	52.71	80.53
TB	5	526.675	77.0671	34.465	430.98	622.37

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB070**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	461.7	<.0001*
MCN2-COMP-T	64.64	<.0001*
MCN1-COMP-T	57.99	<.0001*
MCN3-COMP	38.45	0.0002*
BIME-COMP-T-M	30.29	0.0008*
MCN4-COMP	19.17	0.0042*
BIMW-COMP-T-M	18.55	0.0046*
BIN-COMP-T	9.201	0.0161*
MCN5-COMP	1.619	0.0413*
LA3-REF	-57	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	129.000	127.500	25.8000	0.032
BIMW-COMP-T-M	5	98.000	127.500	19.6000	-0.938
BIN-COMP-T	5	101.000	127.500	20.2000	-0.841
LA3-REF	5	16.000	127.500	3.2000	-3.590
MCN1-COMP-T	5	195.000	127.500	39.0000	2.167
MCN2-COMP-T	5	186.000	127.500	37.2000	1.876
MCN3-COMP	5	149.000	127.500	29.8000	0.679
MCN4-COMP	5	102.000	127.500	20.4000	-0.808
MCN5-COMP	5	59.000	127.500	11.8000	-2.199
TB	5	240.000	127.500	48.0000	3.622

**1-Way Test, ChiSquare Approximation**

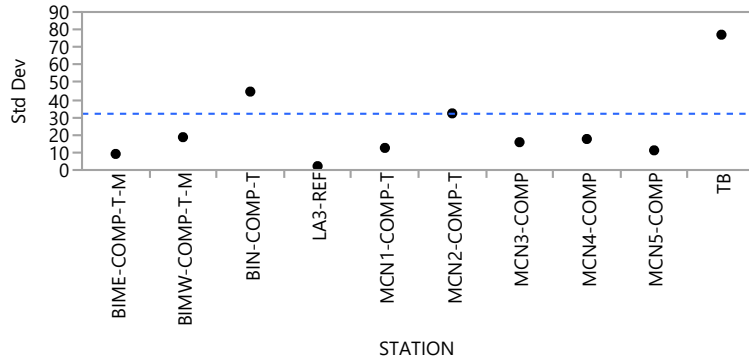
ChiSquare	DF	Prob>ChiSq
38.0673	9	<.0001*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB070**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	9.15607	7.88331	7.00766
BIMW-COMP-T-M	5	18.70137	11.95430	10.59512
BIN-COMP-T	5	44.66019	34.23667	31.68492
LA3-REF	5	2.19718	1.68987	1.44626
MCN1-COMP-T	5	12.59007	10.20712	9.93960
MCN2-COMP-T	5	32.25619	25.18053	24.96766
MCN3-COMP	5	15.84627	11.61398	11.37298
MCN4-COMP	5	17.66273	13.63400	13.19570
MCN5-COMP	5	11.20194	8.91584	8.23914
TB	5	77.06707	63.10920	53.29260

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	2.6254	9	40	0.0173*
Brown-Forsythe	1.6700	9	40	0.1288
Levene	7.6855	9	40	<.0001*
Bartlett	5.3219	9	.	<.0001*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

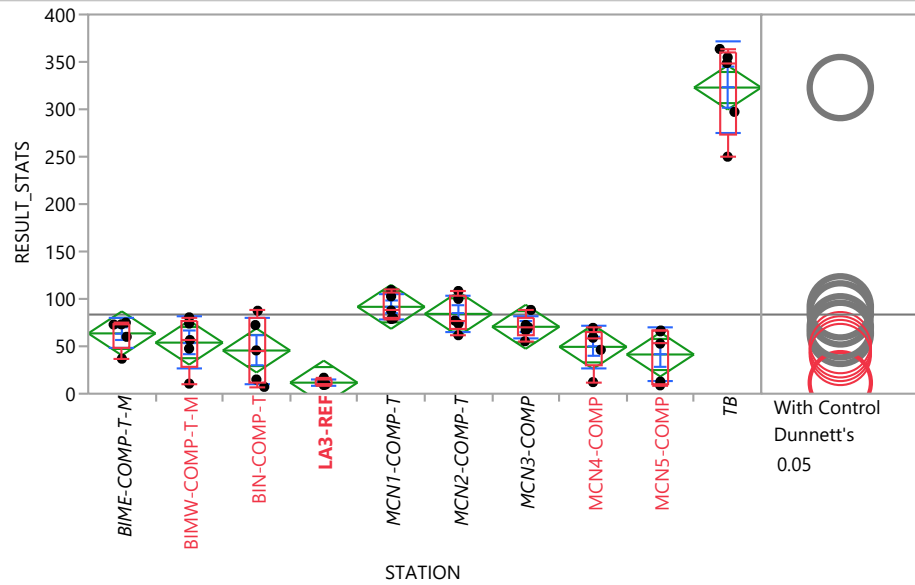
q*		Alpha								
1.95996		0.05								
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL		
MCN1-COMP-T	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	27.248	4.213	48.409		
MCN1-COMP-T	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	38.324	5.808	78.995		
MCN1-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	117.506	99.751	130.750		
MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	121.753	87.060	165.472		
MCN3-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	97.833	71.673	115.472		
MCN4-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	79.545	56.131	101.821		
MCN5-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	61.316	42.259	72.662		

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB070**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean		Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
		Difference	Std Err Dif						
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	475.240	304.213	494.491	
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	475.839	322.299	526.987	
TB	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	476.141	315.988	570.300	
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	568.940	400.407	574.645	
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	443.145	276.438	471.554	
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	409.173	259.091	484.900	
TB	MCN3-COMP	4.80000	1.914854	2.50672	0.0122*	459.173	296.591	500.288	
TB	MCN4-COMP	4.80000	1.914854	2.50672	0.0122*	472.824	317.424	515.830	
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	501.983	336.364	529.702	
MCN2-COMP-T	BIMW-COMP-T-M	4.00000	1.914854	2.08893	0.0367*	42.857	-3.917	96.342	
MCN2-COMP-T	BIN-COMP-T	4.00000	1.914854	2.08893	0.0367*	49.180	-26.486	139.655	
MCN1-COMP-T	BIN-COMP-T	3.60000	1.914854	1.88004	0.0601	44.397	-16.761	122.308	
MCN2-COMP-T	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	37.662	-9.133	83.131	
MCN3-COMP	BIMW-COMP-T-M	2.40000	1.914854	1.25336	0.2101	18.651	-8.056	58.842	
MCN3-COMP	BIN-COMP-T	2.00000	1.914854	1.04447	0.2963	25.543	-30.625	102.155	
MCN3-COMP	BIME-COMP-T-M	1.20000	1.914854	0.62668	0.5309	8.409	-24.521	33.131	
MCN4-COMP	BIMW-COMP-T-M	0.40000	1.914854	0.20889	0.8345	0.649	-36.112	38.008	
BIN-COMP-T	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.164	-76.448	42.411	
MCN2-COMP-T	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	4.247	-36.908	60.858	
MCN4-COMP	BIN-COMP-T	0.00000	1.914854	0.00000	1.0000	4.710	-58.681	81.322	
BIN-COMP-T	BIME-COMP-T-M	-1.20000	1.914854	-0.62668	0.5309	-12.302	-94.533	39.034	
MCN4-COMP	BIME-COMP-T-M	-1.20000	1.914854	-0.62668	0.5309	-13.738	-40.063	19.480	
MCN5-COMP	BIN-COMP-T	-1.20000	1.914854	-0.62668	0.5309	-14.229	-68.125	62.383	
MCN3-COMP	MCN2-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-23.920	-74.722	20.583	
BIMW-COMP-T-M	BIME-COMP-T-M	-2.40000	1.914854	-1.25336	0.2101	-4.909	-51.220	16.465	
MCN5-COMP	MCN4-COMP	-2.40000	1.914854	-1.25336	0.2101	-16.364	-48.571	9.967	
MCN4-COMP	MCN3-COMP	-2.80000	1.914854	-1.46225	0.1437	-18.287	-52.778	11.310	
MCN3-COMP	MCN1-COMP-T	-3.20000	1.914854	-1.67115	0.0947	-19.673	-52.296	10.858	
MCN5-COMP	BIMW-COMP-T-M	-3.20000	1.914854	-1.67115	0.0947	-16.000	-45.556	19.069	
MCN4-COMP	MCN2-COMP-T	-4.00000	1.914854	-2.08893	0.0367*	-41.429	-102.778	6.932	
LA3-REF	BIN-COMP-T	-4.40000	1.914854	-2.29783	0.0216*	-80.138	-121.375	-1.661	
LA3-REF	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-84.091	-98.655	-77.470	
LA3-REF	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-78.964	-98.806	-44.974	
MCN4-COMP	MCN1-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-40.986	-68.056	-2.793	
MCN5-COMP	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-29.091	-53.935	-9.679	
MCN5-COMP	MCN1-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-58.088	-81.710	-31.952	
MCN5-COMP	MCN2-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-58.571	-112.222	-22.227	
MCN5-COMP	MCN3-COMP	-4.80000	1.914854	-2.50672	0.0122*	-37.500	-62.222	-7.630	

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB074**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	36.9231	36.9231	48.46155	72.973	74.08535	75	75
BIMW-COMP-T-M	10.6098	10.6098	29.1144	56.6038	77.2778	80.5556	80.5556
BIN-COMP-T	7.21311	7.21311	11.10656	45.6522	79.9569	87.5	87.5
LA3-REF	9.1579	9.1579	9.4727	9.88636	14.7154	16.8387	16.8387
MCN1-COMP-T	78.7879	78.7879	79.1667	87.7551	106.039	109.375	109.375
MCN2-COMP-T	61.7021	61.7021	67.7363	77.1429	104.1665	108.333	108.333
MCN3-COMP	55.3571	55.3571	61.0119	70	80.43605	88.3721	88.3721
MCN4-COMP	12.2222	12.2222	29.25925	59.0909	64.7222	69.4444	69.4444
MCN5-COMP	8.8	8.8	10.79705	52.8302	66.1905	66.6667	66.6667
TB	250	250	273.6485	348.837	359.2375	363.636	363.636

**Oneway Anova**

**Summary of Fit**

Rsquare	0.928345
Adj Rsquare	0.912222
Root Mean Square Error	25.68349
Mean of Response	83.47951
Observations (or Sum Wgts)	50

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB074**

**Oneway Anova**

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	9	341844.60	37982.7	57.5809	<.0001*
Error	40	26385.66	659.6		
C. Total	49	368230.26			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	63.613	11.486	40.4	86.83
BIMW-COMP-T-M	5	53.878	11.486	30.7	77.09
BIN-COMP-T	5	45.556	11.486	22.3	68.77
LA3-REF	5	11.653	11.486	-11.6	34.87
MCN1-COMP-T	5	91.633	11.486	68.4	114.85
MCN2-COMP-T	5	84.190	11.486	61.0	107.40
MCN3-COMP	5	70.579	11.486	47.4	93.79
MCN4-COMP	5	49.411	11.486	26.2	72.62
MCN5-COMP	5	41.361	11.486	18.1	64.58
TB	5	322.922	11.486	299.7	346.14

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	63.613	16.0781	7.190	43.65	83.58
BIMW-COMP-T-M	5	53.878	27.5469	12.319	19.67	88.08
BIN-COMP-T	5	45.556	34.9446	15.628	2.17	88.95
LA3-REF	5	11.653	3.1859	1.425	7.70	15.61
MCN1-COMP-T	5	91.633	13.8154	6.178	74.48	108.79
MCN2-COMP-T	5	84.190	19.3441	8.651	60.17	108.21
MCN3-COMP	5	70.579	11.9125	5.327	55.79	85.37
MCN4-COMP	5	49.411	22.3600	10.000	21.65	77.17
MCN5-COMP	5	41.361	28.4662	12.730	6.02	76.71
TB	5	322.922	48.2757	21.590	262.98	382.86

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB074**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	265.6	<.0001*
MCN1-COMP-T	34.31	0.0001*
MCN2-COMP-T	26.86	0.0005*
MCN3-COMP	13.25	0.0060*
BIME-COMP-T-M	6.288	0.0191*
BIMW-COMP-T-M	-3.45	0.0815
MCN4-COMP	-7.91	0.1464
BIN-COMP-T	-11.8	0.2317
MCN5-COMP	-16	0.3616
LA3-REF	-45.7	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	127.500	127.500	25.5000	0.000
BIMW-COMP-T-M	5	110.000	127.500	22.0000	-0.550
BIN-COMP-T	5	91.000	127.500	18.2000	-1.164
LA3-REF	5	31.000	127.500	6.2000	-3.105
MCN1-COMP-T	5	201.000	127.500	40.2000	2.361
MCN2-COMP-T	5	175.000	127.500	35.0000	1.520
MCN3-COMP	5	138.500	127.500	27.7000	0.340
MCN4-COMP	5	86.500	127.500	17.3000	-1.310
MCN5-COMP	5	74.500	127.500	14.9000	-1.698
TB	5	240.000	127.500	48.0000	3.622

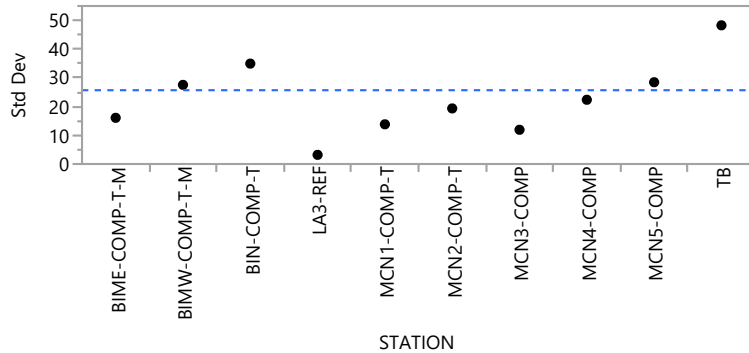
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
33.7694	9	<.0001*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB074**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	16.07815	12.12145	10.24952
BIMW-COMP-T-M	5	27.54692	19.81059	19.26536
BIN-COMP-T	5	34.94459	27.55941	27.54014
LA3-REF	5	3.18591	2.45031	2.09708
MCN1-COMP-T	5	13.81544	11.52456	10.74892
MCN2-COMP-T	5	19.34408	15.98144	14.57208
MCN3-COMP	5	11.91252	7.88550	7.76966
MCN4-COMP	5	22.35997	16.12121	14.18518
MCN5-COMP	5	28.46617	24.45121	22.15738
TB	5	48.27569	39.41864	34.23560

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	2.0297	9	40	0.0610
Brown-Forsythe	1.3127	9	40	0.2610
Levene	4.0933	9	40	0.0009*
Bartlett	2.6495	9	.	0.0046*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

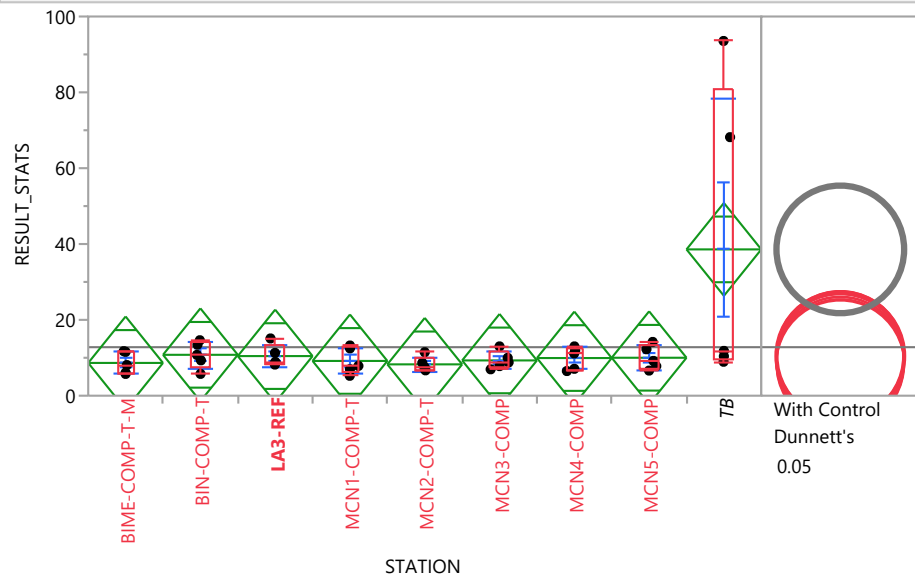
q*		Alpha							
1.95996		0.05							
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
MCN1-COMP-T	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	27.755	4.546	65.780	
MCN1-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	77.869	62.707	99.588	
MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	67.257	49.110	98.546	
MCN3-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	57.509	42.765	78.585	
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	275.864	176.829	317.916	
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	280.839	176.000	344.229	
TB	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	282.297	177.586	348.636	

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB074**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	338.000	237.408	353.849	
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	246.134	147.297	284.091	
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	248.837	150.000	293.137	
TB	MCN3-COMP	4.80000	1.914854	2.50672	0.0122*	275.264	177.500	299.482	
TB	MCN4-COMP	4.80000	1.914854	2.50672	0.0122*	288.837	190.000	342.617	
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	288.497	184.286	350.842	
MCN1-COMP-T	BIMW-COMP-T-M	4.00000	1.914854	2.08893	0.0367*	31.169	-1.010	92.093	
MCN1-COMP-T	BIN-COMP-T	4.00000	1.914854	2.08893	0.0367*	42.103	-7.954	95.490	
MCN4-COMP	LA3-REF	4.00000	1.914854	2.08893	0.0367*	46.499	-0.370	59.657	
MCN2-COMP-T	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	24.779	-11.469	63.077	
MCN2-COMP-T	BIN-COMP-T	3.20000	1.914854	1.67115	0.0947	35.919	-13.730	93.333	
MCN2-COMP-T	BIMW-COMP-T-M	2.80000	1.914854	1.46225	0.1437	26.152	-12.298	89.390	
MCN5-COMP	LA3-REF	2.40000	1.914854	1.25336	0.2101	42.944	-4.045	56.879	
MCN3-COMP	BIN-COMP-T	2.00000	1.914854	1.04447	0.2963	24.348	-20.833	73.372	
MCN3-COMP	BIMW-COMP-T-M	1.20000	1.914854	0.62668	0.5309	13.396	-18.643	61.890	
MCN3-COMP	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.473	-17.814	35.577	
MCN4-COMP	BIN-COMP-T	0.00000	1.914854	0.00000	1.0000	0.644	-60.192	54.444	
BIMW-COMP-T-M	BIME-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-3.396	-62.561	37.077	
MCN4-COMP	BIMW-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-4.556	-61.778	49.390	
MCN5-COMP	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-5.747	-74.706	58.501	
MCN5-COMP	MCN4-COMP	-0.40000	1.914854	-0.20889	0.8345	-3.422	-56.650	53.492	
BIN-COMP-T	BIMW-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-3.397	-66.787	61.804	
MCN5-COMP	BIMW-COMP-T-M	-1.20000	1.914854	-0.62668	0.5309	-8.286	-67.762	55.105	
BIN-COMP-T	BIME-COMP-T-M	-1.60000	1.914854	-0.83557	0.4034	-21.923	-65.958	35.491	
MCN2-COMP-T	MCN1-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-5.775	-41.001	28.787	
LA3-REF	BIN-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-35.766	-77.713	5.379	
MCN3-COMP	MCN2-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-10.476	-44.643	14.602	
MCN4-COMP	BIME-COMP-T-M	-2.60000	1.909043	-1.36194	0.1732	-13.704	-60.949	23.077	
MCN5-COMP	BIME-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-20.143	-64.371	28.791	
MCN4-COMP	MCN3-COMP	-3.20000	1.914854	-1.67115	0.0947	-13.409	-60.278	4.643	
MCN3-COMP	MCN1-COMP-T	-3.60000	1.914854	-1.88004	0.0601	-21.003	-47.346	8.827	
MCN5-COMP	MCN3-COMP	-3.80000	1.909043	-1.99053	0.0465*	-21.705	-75.578	10.357	
LA3-REF	BIMW-COMP-T-M	-4.00000	1.914854	-2.08893	0.0367*	-46.717	-70.768	1.982	
MCN5-COMP	MCN2-COMP-T	-4.00000	1.914854	-2.08893	0.0367*	-42.619	-95.539	4.012	
MCN4-COMP	MCN2-COMP-T	-4.40000	1.914854	-2.29783	0.0216*	-30.847	-87.778	-1.702	
LA3-REF	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-58.161	-65.213	-24.331	
MCN4-COMP	MCN1-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-39.931	-90.481	-10.101	
MCN5-COMP	MCN1-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-43.661	-96.581	-12.879	

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB077**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	5.74545	5.74545	5.911185	8.07955	11.6521	11.7432	11.7432
BIN-COMP-T	5.7541	5.7541	7.540095	10.7586	14.03665	14.625	14.625
LA3-REF	8.21053	8.21053	8.492765	8.86364	13.19315	15.0968	15.0968
MCN1-COMP-T	5.25	5.25	6.125	7.85714	12.86045	13.2344	13.2344
MCN2-COMP-T	6.68571	6.68571	6.85925	7.46808	10.06864	11.4706	11.4706
MCN3-COMP	6.96429	6.96429	7.382145	8.775	11.48837	13	13
MCN4-COMP	6.5	6.5	6.795455	11.1429	12.45835	13	13
MCN5-COMP	6.62264	6.62264	7.21132	9.17647	13.21945	14.1818	14.1818
TB	8.95349	8.95349	9.679445	11.8182	80.8651	93.5484	93.5484

**Oneway Anova**

**Summary of Fit**

Rsquare	0.364785
Adj Rsquare	0.223627
Root Mean Square Error	13.50058
Mean of Response	12.7915
Observations (or Sum Wgts)	45



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB077**

**Oneway Anova**

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	8	3768.118	471.015	2.5842	0.0243*
Error	36	6561.566	182.266		
C. Total	44	10329.684			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	8.6412	6.0376	-3.60	20.886
BIN-COMP-T	5	10.7824	6.0376	-1.46	23.027
LA3-REF	5	10.4471	6.0376	-1.80	22.692
MCN1-COMP-T	5	9.1656	6.0376	-3.08	21.411
MCN2-COMP-T	5	8.2648	6.0376	-3.98	20.510
MCN3-COMP	5	9.3032	6.0376	-2.94	21.548
MCN4-COMP	5	9.9301	6.0376	-2.31	22.175
MCN5-COMP	5	10.0076	6.0376	-2.24	22.253
TB	5	38.5815	6.0376	26.34	50.826

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	8.6412	2.8907	1.293	5.05	12.230
BIN-COMP-T	5	10.7824	3.5099	1.570	6.42	15.141
LA3-REF	5	10.4471	2.8563	1.277	6.90	13.994
MCN1-COMP-T	5	9.1656	3.5113	1.570	4.81	13.525
MCN2-COMP-T	5	8.2648	1.9420	0.868	5.85	10.676
MCN3-COMP	5	9.3032	2.3521	1.052	6.38	12.224
MCN4-COMP	5	9.9301	2.9440	1.317	6.27	13.586
MCN5-COMP	5	10.0076	3.1427	1.405	6.11	13.910
TB	5	38.5815	39.6406	17.728	-10.64	87.802

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.78823	0.05

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB077**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	4.327	0.0144*
BIN-COMP-T	-23.5	1.0000
LA3-REF	-23.8	1.0000
MCN5-COMP	-23.4	1.0000
MCN4-COMP	-23.3	1.0000
MCN3-COMP	-22.7	1.0000
MCN1-COMP-T	-22.5	1.0000
BIME-COMP-T-M	-22	1.0000
MCN2-COMP-T	-21.6	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	85.000	115.000	17.0000	-1.066
BIN-COMP-T	5	136.000	115.000	27.2000	0.740
LA3-REF	5	129.500	115.000	25.9000	0.506
MCN1-COMP-T	5	100.000	115.000	20.0000	-0.524
MCN2-COMP-T	5	77.000	115.000	15.4000	-1.354
MCN3-COMP	5	103.500	115.000	20.7000	-0.397
MCN4-COMP	5	115.500	115.000	23.1000	0.000
MCN5-COMP	5	118.500	115.000	23.7000	0.108
TB	5	170.000	115.000	34.0000	1.969

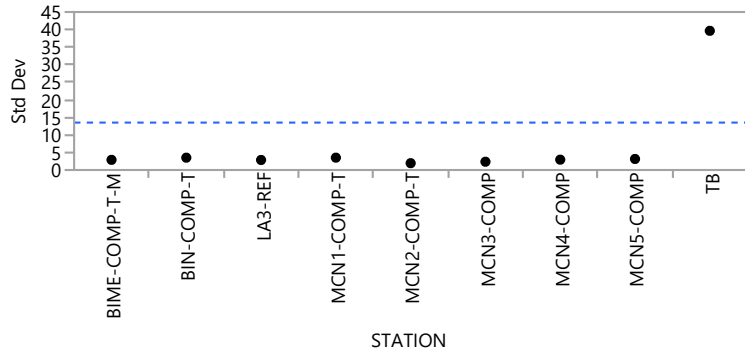
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
7.4102	8	0.4931

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB077**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	2.89067	2.40870	2.29637
BIN-COMP-T	5	3.50991	2.60339	2.59862
LA3-REF	5	2.85635	2.19684	1.88015
MCN1-COMP-T	5	3.51131	2.95587	2.69418
MCN2-COMP-T	5	1.94196	1.44309	1.28375
MCN3-COMP	5	2.35208	1.74813	1.64249
MCN4-COMP	5	2.94399	2.50772	2.26516
MCN5-COMP	5	3.14271	2.56948	2.40325
TB	5	39.64065	33.82691	28.47426

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	5.8740	8	36	<.0001*
Brown-Forsythe	2.3439	8	36	0.0385*
Levene	32.1468	8	36	<.0001*
Bartlett	10.4140	8	.	<.0001*

Warning: Small sample sizes. Use Caution.

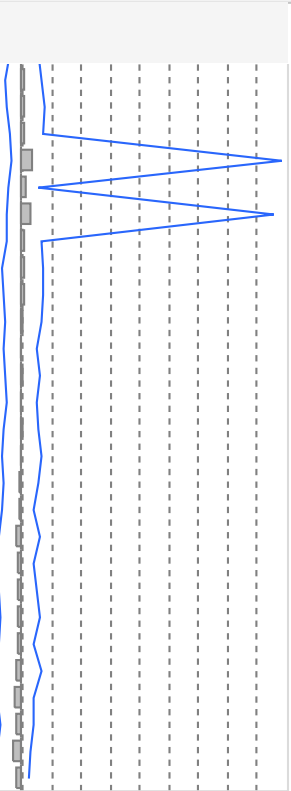
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

		q*	Alpha							
		1.95996	0.05							
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL		
TB	MCN2-COMP-T	4.00000	1.914854	2.08893	0.0367*	4.35012	-1.06520	86.51561		
TB	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	4.65995	-2.60751	87.47148		
TB	MCN3-COMP	3.20000	1.914854	1.67115	0.0947	3.44111	-2.59460	85.74840		
TB	LA3-REF	2.80000	1.914854	1.46225	0.1437	2.95456	-4.69140	84.77340		
TB	MCN1-COMP-T	2.40000	1.914854	1.25336	0.2101	4.81820	-3.53301	86.54840		
TB	MCN5-COMP	2.00000	1.914854	1.04447	0.2963	3.78276	-3.77640	85.74840		
BIN-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	2.67905	-5.80690	8.54808		
LA3-REF	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	2.46508	-3.35047	9.01988		
MCN3-COMP	MCN2-COMP-T	1.60000	1.914854	0.83557	0.4034	1.11429	-3.67060	5.96721		

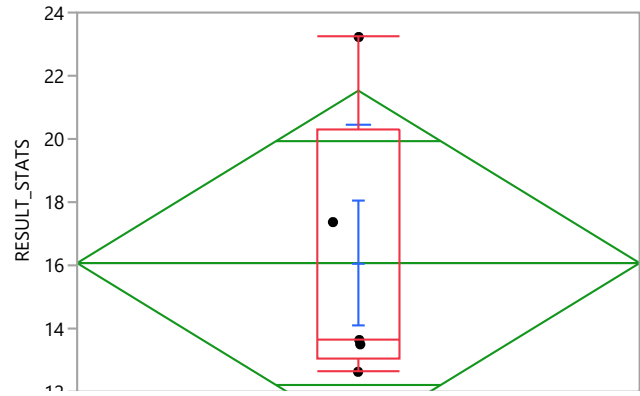
**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB077**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
MCN4-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.01399	-5.06100	6.92308
MCN5-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.09692	-4.93836	8.10488
MCN5-COMP	MCN2-COMP-T	1.60000	1.914854	0.83557	0.4034	1.11429	-3.67060	7.14901
TB	MCN4-COMP	1.60000	1.914854	0.83557	0.4034	3.90540	-2.96321	86.45749
MCN4-COMP	MCN2-COMP-T	1.20000	1.914854	0.62668	0.5309	1.52940	-4.37969	5.96721
TB	BIN-COMP-T	1.20000	1.914854	0.62668	0.5309	3.19939	-4.49481	84.22231
MCN3-COMP	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	1.21884	-4.59671	6.92308
MCN1-COMP-T	BIME-COMP-T-M	0.40000	1.914854	0.20889	0.8345	0.92308	-6.31100	7.15748
MCN5-COMP	MCN1-COMP-T	0.40000	1.914854	0.20889	0.8345	0.94740	-5.86386	7.18180
MCN5-COMP	MCN4-COMP	0.40000	1.914854	0.20889	0.8345	0.34040	-5.29406	7.09089
MCN4-COMP	MCN3-COMP	0.20000	1.909043	0.10476	0.9166	0.12662	-5.90909	5.20000
MCN5-COMP	MCN3-COMP	0.20000	1.909043	0.10476	0.9166	0.40147	-5.20000	6.38180
MCN2-COMP-T	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.09040	-4.87529	5.39368
MCN3-COMP	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	0.51350	-5.52221	6.00000
MCN4-COMP	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	0.09091	-6.14349	6.66670
LA3-REF	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.55109	-5.85000	5.77071
MCN2-COMP-T	MCN1-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.38906	-6.20161	4.47060
MCN4-COMP	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-1.53160	-7.53409	6.16260
MCN4-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-1.11962	-8.00589	4.22500
MCN5-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-0.91500	-7.29680	5.40680
MCN5-COMP	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-1.19120	-6.82566	6.50300
MCN3-COMP	LA3-REF	-1.40000	1.909043	-0.73335	0.4633	-1.06364	-7.29680	4.22500
MCN1-COMP-T	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-1.46895	-8.19830	6.73240
MCN1-COMP-T	LA3-REF	-1.60000	1.914854	-0.83557	0.4034	-1.77500	-8.09680	4.45940
MCN3-COMP	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-1.62500	-6.82500	4.22264
MCN2-COMP-T	BIN-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-2.64038	-7.59221	2.91257
MCN2-COMP-T	LA3-REF	-2.80000	1.914854	-1.46225	0.1437	-1.74221	-8.06401	2.69560



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB081**



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB081**

LA3-REF  
STATION

**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
LA3-REF	12.6316	12.6316	13.0658	13.6364	20.2971	23.2258	23.2258

**Oneway Anova**

**Summary of Fit**

Rsquare	0
Adj Rsquare	0
Root Mean Square Error	4.394348
Mean of Response	16.07244
Observations (or Sum Wgts)	5

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	0	0.000000			
Error	4	77.241190	19.3103		
C. Total	4	77.241190			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
LA3-REF	5	16.0724	1.9652	10.616	21.529

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
LA3-REF	5	16.0724	4.39435	1.9652	10.616	21.529

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
LA3-REF	5	15.000	15.000	3.00000	

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
0.0000	0	

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

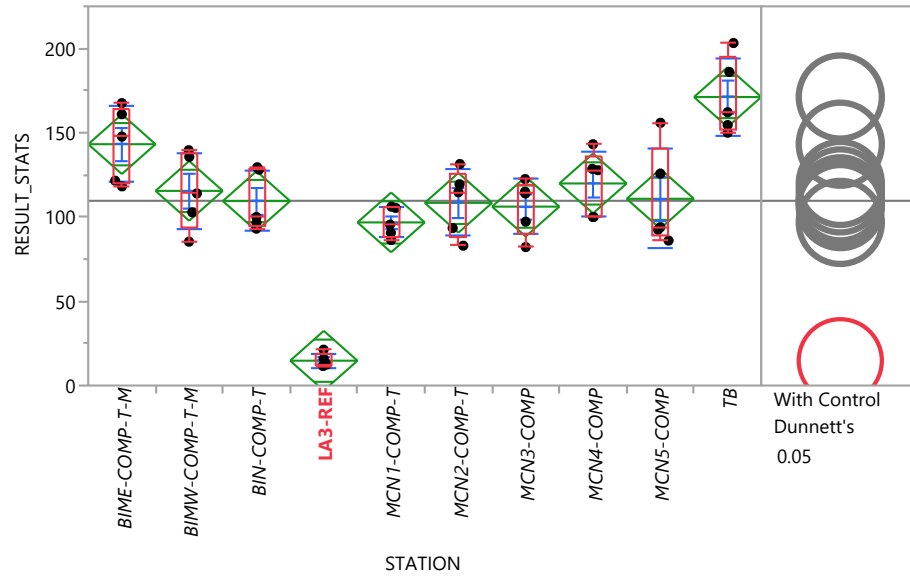
q*	Alpha
1.95996	0.05

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB081**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
-------	---------	-----------------------	-------------	---	---------	----------------	----------	----------

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB087**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	118.182	118.182	119.86	147.727	164.272	167.568	167.568
BIMW-COMP-T-M	85.3659	85.3659	94.07195	114	137.6685	139.623	139.623
BIN-COMP-T	93.1034	93.1034	94.82755	100	128.8165	129.508	129.508
LA3-REF	11.5789	11.5789	11.97695	12.5	18.6057	21.2903	21.2903
MCN1-COMP-T	86.3636	86.3636	88.4943	95.4545	105.7635	106.122	106.122
MCN2-COMP-T	82.9787	82.9787	88.21065	114.706	125.4365	131.429	131.429
MCN3-COMP	82.1429	82.1429	89.68255	113.953	118.75	122.5	122.5
MCN4-COMP	100	100	100	127.778	135.8765	143.182	143.182
MCN5-COMP	86	86	89.2264	93.9394	140.798	155.882	155.882
TB	150	150	152.2725	162.162	194.6365	203.226	203.226

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB087**

**Oneway Anova**

**Summary of Fit**

Rsquare	0.822403
Adj Rsquare	0.782444
Root Mean Square Error	19.60745
Mean of Response	109.6143
Observations (or Sum Wgts)	50

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	9	71211.598	7912.40	20.5810	<.0001*
Error	40	15378.079	384.45		
C. Total	49	86589.677			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	143.198	8.7687	125.5	160.92
BIMW-COMP-T-M	5	115.496	8.7687	97.8	133.22
BIN-COMP-T	5	109.458	8.7687	91.7	127.18
LA3-REF	5	14.733	8.7687	-3.0	32.46
MCN1-COMP-T	5	96.794	8.7687	79.1	114.52
MCN2-COMP-T	5	108.400	8.7687	90.7	126.12
MCN3-COMP	5	106.164	8.7687	88.4	123.89
MCN4-COMP	5	119.906	8.7687	102.2	137.63
MCN5-COMP	5	110.798	8.7687	93.1	128.52
TB	5	171.196	8.7687	153.5	188.92

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	143.198	22.5023	10.063	115.26	171.14
BIMW-COMP-T-M	5	115.496	22.7084	10.156	87.30	143.69
BIN-COMP-T	5	109.458	17.8463	7.981	87.30	131.62
LA3-REF	5	14.733	4.0282	1.801	9.73	19.73
MCN1-COMP-T	5	96.794	8.8006	3.936	85.87	107.72
MCN2-COMP-T	5	108.400	19.7613	8.838	83.86	132.94
MCN3-COMP	5	106.164	16.2986	7.289	85.93	126.40
MCN4-COMP	5	119.906	19.1789	8.577	96.09	143.72
MCN5-COMP	5	110.798	29.5413	13.211	74.12	147.48
TB	5	171.196	22.6639	10.136	143.06	199.34

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB087**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**Confidence Quantile**

d	Alpha
2.81175	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	121.6	<.0001*
BIME-COMP-T-M	93.6	<.0001*
MCN4-COMP	70.31	<.0001*
BIMW-COMP-T-M	65.9	<.0001*
MCN5-COMP	61.2	<.0001*
BIN-COMP-T	59.86	<.0001*
MCN2-COMP-T	58.8	<.0001*
MCN3-COMP	56.56	<.0001*
MCN1-COMP-T	47.19	<.0001*
LA3-REF	-34.9	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	196.000	127.500	39.2000	2.199
BIMW-COMP-T-M	5	135.000	127.500	27.0000	0.226
BIN-COMP-T	5	122.000	127.500	24.4000	-0.162
LA3-REF	5	15.000	127.500	3.0000	-3.622
MCN1-COMP-T	5	84.000	127.500	16.8000	-1.391
MCN2-COMP-T	5	116.000	127.500	23.2000	-0.356
MCN3-COMP	5	109.000	127.500	21.8000	-0.582
MCN4-COMP	5	151.000	127.500	30.2000	0.744
MCN5-COMP	5	114.000	127.500	22.8000	-0.420
TB	5	233.000	127.500	46.6000	3.396

**1-Way Test, ChiSquare Approximation**

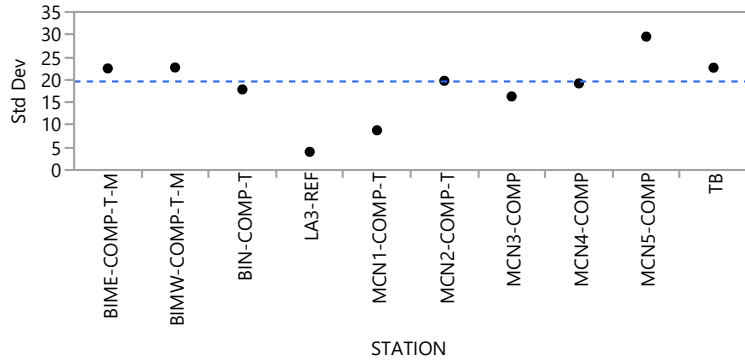
ChiSquare	DF	Prob>ChiSq
29.8095	9	0.0005*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB087**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	22.50234	18.67056	17.76480
BIMW-COMP-T-M	5	22.70841	17.73786	17.43862
BIN-COMP-T	5	17.84628	15.48710	13.59558
LA3-REF	5	4.02817	3.09811	2.65150
MCN1-COMP-T	5	8.80064	7.17558	6.90768
MCN2-COMP-T	5	19.76131	16.15153	14.89034
MCN3-COMP	5	16.29860	13.18486	11.62698
MCN4-COMP	5	19.17890	15.92496	14.35060
MCN5-COMP	5	29.54130	24.00029	20.62864
TB	5	22.66392	18.75240	16.94560

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.2905	9	40	0.2722
Brown-Forsythe	0.7372	9	40	0.6727
Levene	2.9121	9	40	0.0095*
Bartlett	1.4963	9	.	0.1426

Warning: Small sample sizes. Use Caution.

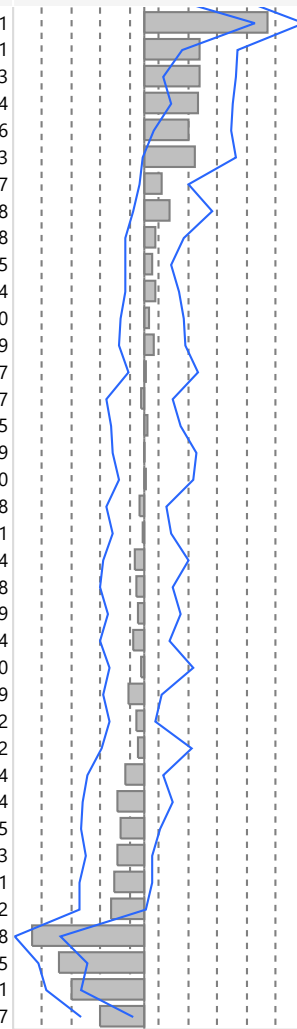
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*		Alpha									
1.95996		0.05									
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL			
MCN1-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	82.955	69.335	93.826			
MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	98.785	67.058	119.054			
MCN3-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	98.032	66.222	110.125			
MCN4-COMP	LA3-REF	4.80000	1.909043	2.51435	0.0119*	111.857	78.710	130.807			
MCN5-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	81.439	70.079	143.507			
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	51.767	14.286	100.681			
TB	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	57.993	21.875	106.674			

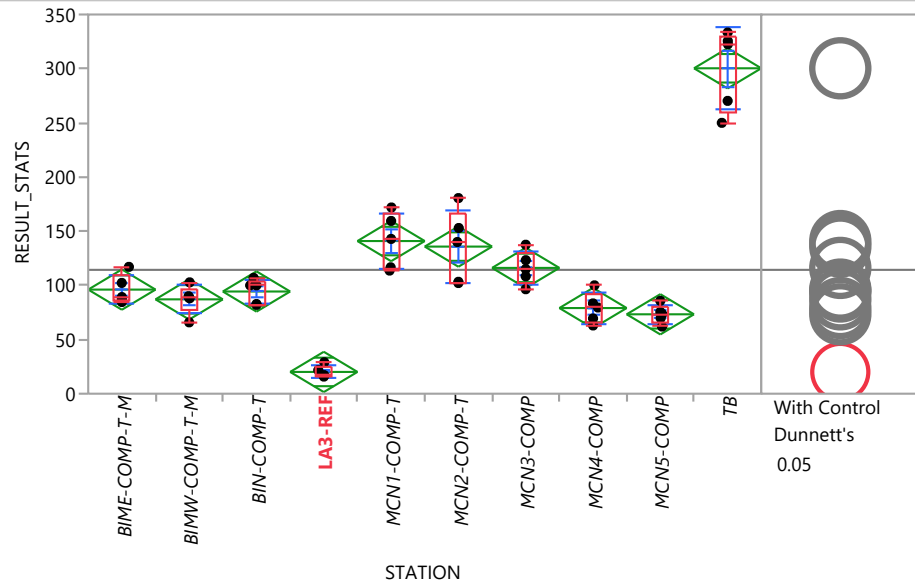
**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB087**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	149.662	133.255	190.851
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	68.181	44.595	112.601
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	66.603	23.116	109.783
TB	MCN3-COMP	4.80000	1.914854	2.50672	0.0122*	64.940	32.045	106.004
TB	MCN4-COMP	4.80000	1.909043	2.51435	0.0119*	54.545	11.363	103.226
TB	MCN5-COMP	4.00000	1.914854	2.08893	0.0367*	62.092	-1.337	110.773
MCN4-COMP	MCN1-COMP-T	3.20000	1.909043	1.67623	0.0937	22.449	-6.122	52.557
TB	BIME-COMP-T-M	2.80000	1.914854	1.46225	0.1437	31.818	-13.023	81.688
MCN4-COMP	MCN3-COMP	2.40000	1.909043	1.25717	0.2087	13.825	-22.500	46.428
MCN3-COMP	MCN1-COMP-T	2.00000	1.914854	1.04447	0.2963	9.595	-23.262	31.875
MCN2-COMP-T	MCN1-COMP-T	1.60000	1.914854	0.83557	0.4034	13.322	-22.426	40.804
MCN4-COMP	BIN-COMP-T	1.60000	1.891501	0.84589	0.3976	6.897	-29.508	46.630
MCN4-COMP	MCN2-COMP-T	1.60000	1.909043	0.83812	0.4020	11.753	-31.429	49.739
MCN5-COMP	MCN1-COMP-T	0.40000	1.914854	0.20889	0.8345	3.314	-19.405	65.257
MCN2-COMP-T	BIN-COMP-T	0.00000	1.914854	0.00000	1.0000	-3.109	-45.146	34.877
MCN4-COMP	BIMW-COMP-T-M	0.00000	1.909043	0.00000	1.0000	3.559	-39.623	43.205
MCN5-COMP	MCN2-COMP-T	0.00000	1.914854	0.00000	1.0000	0.497	-38.976	62.439
MCN5-COMP	MCN3-COMP	0.00000	1.914854	0.00000	1.0000	3.214	-30.047	58.660
MCN3-COMP	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-5.625	-45.982	25.948
MCN3-COMP	MCN2-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.836	-37.301	32.021
MCN5-COMP	BIMW-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-10.000	-49.714	53.104
MCN2-COMP-T	BIMW-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-8.194	-52.735	34.078
BIN-COMP-T	BIMW-COMP-T-M	-1.20000	1.914854	-0.62668	0.5309	-7.589	-43.071	42.759
MCN3-COMP	BIMW-COMP-T-M	-1.20000	1.914854	-0.62668	0.5309	-13.214	-53.571	29.634
MCN5-COMP	BIN-COMP-T	-1.20000	1.914854	-0.62668	0.5309	-3.794	-42.125	59.330
MCN1-COMP-T	BIMW-COMP-T-M	-2.00000	1.914854	-1.04447	0.2963	-18.546	-49.350	20.039
MCN1-COMP-T	BIN-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-9.375	-41.761	12.302
MCN5-COMP	MCN4-COMP	-2.00000	1.909043	-1.04765	0.2948	-7.547	-50.729	55.882
MCN4-COMP	BIME-COMP-T-M	-2.40000	1.909043	-1.25717	0.2087	-21.538	-67.568	21.644
MCN5-COMP	BIME-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-32.182	-75.115	34.344
BIMW-COMP-T-M	BIME-COMP-T-M	-3.20000	1.914854	-1.67115	0.0947	-27.945	-75.610	18.085
BIN-COMP-T	BIME-COMP-T-M	-3.20000	1.914854	-1.67115	0.0947	-31.468	-71.016	9.943
MCN2-COMP-T	BIME-COMP-T-M	-3.60000	1.914854	-1.88004	0.0601	-35.203	-77.997	9.891
MCN3-COMP	BIME-COMP-T-M	-4.00000	1.914854	-2.08893	0.0367*	-38.476	-78.833	0.962
LA3-REF	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-135.227	-155.193	-100.248
LA3-REF	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-101.500	-127.248	-69.445
LA3-REF	BIN-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-87.500	-117.133	-75.261
MCN1-COMP-T	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-52.273	-76.943	-12.777



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB095**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	84.6154	84.6154	85.94405	89.1892	109.673	117.073	117.073
BIMW-COMP-T-M	65.8537	65.8537	76.97445	88.6792	96.389	102.778	102.778
BIN-COMP-T	81.9672	81.9672	82.3629	100	103.4485	106.897	106.897
LA3-REF	15.7895	15.7895	16.33225	17.0455	25.3714	29.0323	29.0323
MCN1-COMP-T	113.636	113.636	115.1515	142.857	165.667	171.875	171.875
MCN2-COMP-T	102.128	102.128	102.7035	140	166.7485	180.556	180.556
MCN3-COMP	96.4286	96.4286	102.3808	115	130.378	137.5	137.5
MCN4-COMP	62.963	62.963	66.2037	79.5455	91.66665	100	100
MCN5-COMP	62	62	65.8485	73.5294	80.593	85.7143	85.7143
TB	250	250	260.135	322.581	329.457	333.333	333.333

**Oneway Anova**

**Summary of Fit**

Rsquare	0.935392
Adj Rsquare	0.920855
Root Mean Square Error	20.58091
Mean of Response	114.3057
Observations (or Sum Wgts)	50

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB095**

**Oneway Anova**

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	9	245297.39	27255.3	64.3460	<.0001*
Error	40	16942.95	423.6		
C. Total	49	262240.35			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	96.085	9.2041	77.48	114.69
BIMW-COMP-T-M	5	87.081	9.2041	68.48	105.68
BIN-COMP-T	5	94.325	9.2041	75.72	112.93
LA3-REF	5	20.091	9.2041	1.49	38.69
MCN1-COMP-T	5	140.899	9.2041	122.30	159.50
MCN2-COMP-T	5	135.781	9.2041	117.18	154.38
MCN3-COMP	5	116.104	9.2041	97.50	134.71
MCN4-COMP	5	79.057	9.2041	60.46	97.66
MCN5-COMP	5	73.282	9.2041	54.68	91.88
TB	5	300.353	9.2041	281.75	318.96

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	96.085	13.5605	6.064	79.25	112.92
BIMW-COMP-T-M	5	87.081	13.3144	5.954	70.55	103.61
BIN-COMP-T	5	94.325	11.2801	5.045	80.32	108.33
LA3-REF	5	20.091	5.4930	2.457	13.27	26.91
MCN1-COMP-T	5	140.899	25.6821	11.485	109.01	172.79
MCN2-COMP-T	5	135.781	33.5633	15.010	94.11	177.46
MCN3-COMP	5	116.104	15.4731	6.920	96.89	135.32
MCN4-COMP	5	79.057	14.2175	6.358	61.40	96.71
MCN5-COMP	5	73.282	8.6538	3.870	62.54	84.03
TB	5	300.353	37.6119	16.821	253.65	347.05

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB095****Means Comparisons****Comparisons with a control using Dunnett's Method****LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	243.7	<.0001*
MCN1-COMP-T	84.21	<.0001*
MCN2-COMP-T	79.09	<.0001*
MCN3-COMP	59.41	<.0001*
BIME-COMP-T-M	39.39	<.0001*
BIN-COMP-T	37.63	<.0001*
BIMW-COMP-T-M	30.39	<.0001*
MCN4-COMP	22.37	0.0004*
MCN5-COMP	16.59	0.0016*
LA3-REF	-36.6	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	124.000	127.500	24.8000	-0.097
BIMW-COMP-T-M	5	102.000	127.500	20.4000	-0.809
BIN-COMP-T	5	113.000	127.500	22.6000	-0.453
LA3-REF	5	15.000	127.500	3.0000	-3.622
MCN1-COMP-T	5	198.000	127.500	39.6000	2.264
MCN2-COMP-T	5	186.000	127.500	37.2000	1.876
MCN3-COMP	5	169.000	127.500	33.8000	1.326
MCN4-COMP	5	71.000	127.500	14.2000	-1.811
MCN5-COMP	5	57.000	127.500	11.4000	-2.264
TB	5	240.000	127.500	48.0000	3.622

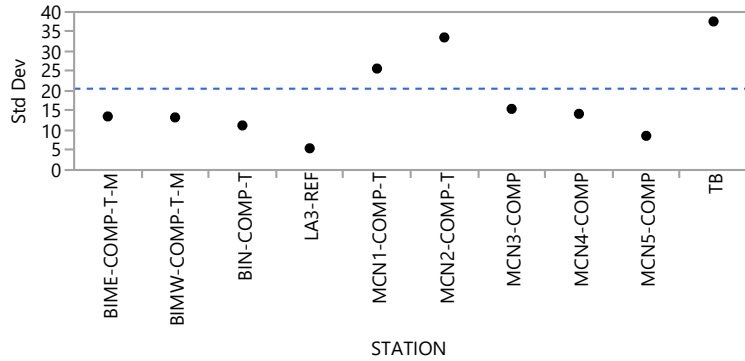
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
41.8551	9	<.0001*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB095**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	13.56049	10.87067	9.49158
BIMW-COMP-T-M	5	13.31444	8.49101	7.76582
BIN-COMP-T	5	11.28011	9.56933	8.43424
LA3-REF	5	5.49296	4.22467	3.61566
MCN1-COMP-T	5	25.68210	20.59784	20.20620
MCN2-COMP-T	5	33.56326	26.46184	25.61800
MCN3-COMP	5	15.47311	11.41958	11.19888
MCN4-COMP	5	14.21754	10.28283	10.18518
MCN5-COMP	5	8.65381	5.94718	5.89780
TB	5	37.61193	32.17440	27.72880

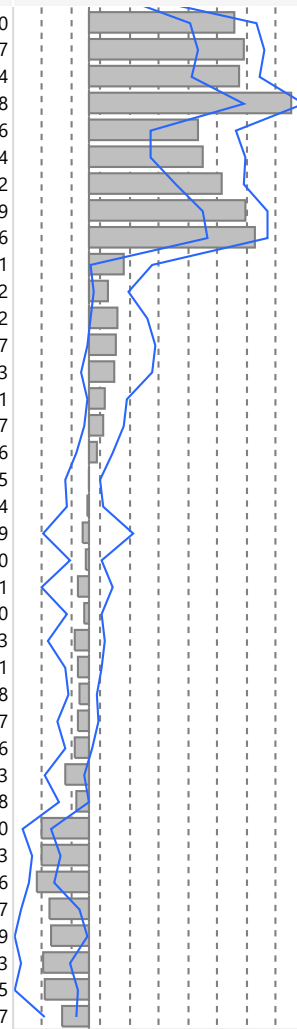
Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	3.4768	9	40	0.0030*
Brown-Forsythe	1.7034	9	40	0.1202
Levene	5.2019	9	40	0.0001*
Bartlett	2.4289	9	.	0.0093*

Warning: Small sample sizes. Use Caution.

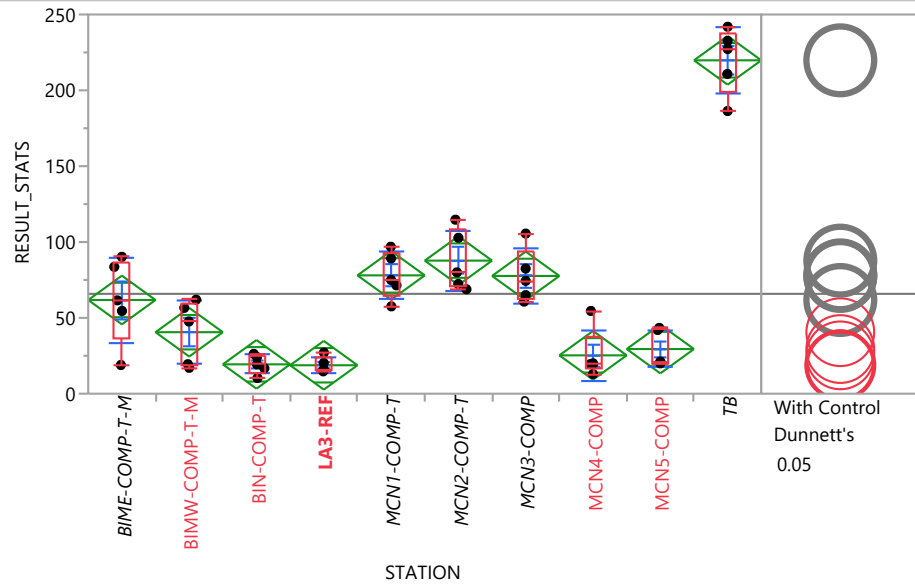
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

		q*	Alpha						
		1.95996	0.05						
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
MCN1-COMP-T	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	54.178	13.889	93.605	
MCN1-COMP-T	BIN-COMP-T	4.80000	1.909043	2.51435	0.0119*	42.857	9.770	89.116	
MCN1-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	125.812	87.635	155.000	
MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	122.955	74.247	163.681	
MCN3-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	94.224	74.718	120.625	
MCN4-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	57.835	40.412	83.125	
MCN5-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	53.761	40.290	68.839	

Oneway Analysis of RESULT_STATS By STATION CHEM_OUT=PCB095								
Nonparametric Comparisons For Each Pair Using Wilcoxon Method								
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	216.260	147.727	246.060
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	230.555	160.000	259.727
TB	BIN-COMP-T	4.80000	1.909043	2.51435	0.0119*	222.581	150.000	250.574
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	300.871	228.290	316.458
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	161.458	90.541	216.666
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	168.142	89.714	230.054
TB	MCN3-COMP	4.80000	1.914854	2.50672	0.0122*	195.833	126.744	229.152
TB	MCN4-COMP	4.80000	1.914854	2.50672	0.0122*	233.333	166.667	263.889
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	247.109	174.528	263.636
MCN2-COMP-T	BIMW-COMP-T-M	4.40000	1.914854	2.29783	0.0216*	50.163	0.501	92.461
MCN3-COMP	BIMW-COMP-T-M	4.40000	1.914854	2.29783	0.0216*	26.905	5.555	57.402
MCN1-COMP-T	BIME-COMP-T-M	4.00000	1.914854	2.08893	0.0367*	42.386	-0.406	84.602
MCN2-COMP-T	BIN-COMP-T	4.00000	1.909043	2.09529	0.0361*	40.000	-3.618	97.797
MCN2-COMP-T	BIME-COMP-T-M	3.60000	1.914854	1.88004	0.0601	37.727	-13.794	93.283
MCN3-COMP	BIN-COMP-T	3.60000	1.909043	1.88576	0.0593	23.256	-3.571	54.741
MCN3-COMP	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	20.983	-8.740	50.227
BIN-COMP-T	BIMW-COMP-T-M	0.80000	1.909043	0.41906	0.6752	10.000	-20.019	34.146
BIMW-COMP-T-M	BIME-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-1.094	-36.419	15.505
BIN-COMP-T	BIME-COMP-T-M	-0.80000	1.909043	-0.41906	0.6752	-2.273	-34.314	19.624
MCN2-COMP-T	MCN1-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-10.357	-68.596	63.889
MCN5-COMP	MCN4-COMP	-0.80000	1.914854	-0.41779	0.6761	-6.016	-30.303	16.270
MCN3-COMP	MCN2-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-16.744	-72.223	34.221
MCN4-COMP	BIMW-COMP-T-M	-2.00000	1.914854	-1.04447	0.2963	-8.550	-33.334	17.480
MCN3-COMP	MCN1-COMP-T	-2.80000	1.914854	-1.46225	0.1437	-21.959	-63.542	20.833
MCN4-COMP	BIN-COMP-T	-2.80000	1.891501	-1.48031	0.1388	-16.667	-37.453	17.241
MCN5-COMP	BIMW-COMP-T-M	-3.20000	1.914854	-1.67115	0.0947	-15.150	-33.081	9.618
MCN4-COMP	BIME-COMP-T-M	-3.60000	1.914854	-1.88004	0.0601	-17.828	-47.629	12.727
MCN5-COMP	BIN-COMP-T	-4.00000	1.909043	-2.09529	0.0361*	-21.183	-38.000	2.956
MCN4-COMP	MCN3-COMP	-4.40000	1.914854	-2.29783	0.0216*	-37.500	-68.056	-8.333
MCN5-COMP	BIME-COMP-T-M	-4.40000	1.914854	-2.29783	0.0216*	-19.492	-47.376	-1.558
LA3-REF	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-72.144	-100.198	-58.240
LA3-REF	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-71.220	-85.903	-44.143
LA3-REF	BIN-COMP-T	-4.80000	1.909043	-2.51435	0.0119*	-77.865	-90.022	-53.726
MCN4-COMP	MCN1-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-59.524	-102.431	-16.667
MCN4-COMP	MCN2-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-56.667	-111.112	-3.279
MCN5-COMP	MCN1-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-69.328	-102.178	-30.953
MCN5-COMP	MCN2-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-66.471	-110.859	-17.565
MCN5-COMP	MCN3-COMP	-4.80000	1.914854	-2.50672	0.0122*	-41.471	-67.803	-20.957



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB097**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	18.9189	18.9189	36.7322	61.5385	86.94015	90.2439	90.2439
BIMW-COMP-T-M	17.0732	17.0732	18.2588	47.619	59.3019	62	62
BIN-COMP-T	10.3279	10.3279	13.5335	19.3103	25.19395	26.25	26.25
LA3-REF	14.7368	14.7368	15.2434	15.9091	23.68	27.0968	27.0968
MCN1-COMP-T	57.5758	57.5758	64.5022	75	93.0321	96.875	96.875
MCN2-COMP-T	68.8525	68.8525	70.59645	80	108.742	114.706	114.706
MCN3-COMP	60.7143	60.7143	62.85715	74.4186	94.028	105.556	105.556
MCN4-COMP	12.963	12.963	16.2037	19.4444	37.27275	54.5455	54.5455
MCN5-COMP	20	20	20.2941	21.2121	42.6981	43.3962	43.3962
TB	186.364	186.364	198.5875	227.273	237.2465	241.935	241.935

**Oneway Anova**

**Summary of Fit**

Rsquare	0.927864
Adj Rsquare	0.911634
Root Mean Square Error	17.76394
Mean of Response	65.83228
Observations (or Sum Wgts)	50



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB097**

**Oneway Anova**

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	9	162357.99	18039.8	57.1680	<.0001*
Error	40	12622.30	315.6		
C. Total	49	174980.28			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	61.777	7.9443	45.72	77.83
BIMW-COMP-T-M	5	40.548	7.9443	24.49	56.60
BIN-COMP-T	5	19.353	7.9443	3.30	35.41
LA3-REF	5	18.751	7.9443	2.70	34.81
MCN1-COMP-T	5	78.014	7.9443	61.96	94.07
MCN2-COMP-T	5	87.735	7.9443	71.68	103.79
MCN3-COMP	5	77.638	7.9443	61.58	93.69
MCN4-COMP	5	25.279	7.9443	9.22	41.34
MCN5-COMP	5	29.439	7.9443	13.38	45.50
TB	5	219.788	7.9443	203.73	235.84

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	61.777	28.1841	12.604	26.78	96.77
BIMW-COMP-T-M	5	40.548	21.0024	9.393	14.47	66.63
BIN-COMP-T	5	19.353	6.2998	2.817	11.53	27.18
LA3-REF	5	18.751	5.1268	2.293	12.39	25.12
MCN1-COMP-T	5	78.014	15.4175	6.895	58.87	97.16
MCN2-COMP-T	5	87.735	20.0443	8.964	62.85	112.62
MCN3-COMP	5	77.638	17.7451	7.936	55.60	99.67
MCN4-COMP	5	25.279	16.6145	7.430	4.65	45.91
MCN5-COMP	5	29.439	12.1212	5.421	14.39	44.49
TB	5	219.788	21.8365	9.766	192.67	246.90

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB097**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	169.4	<.0001*
MCN2-COMP-T	37.39	<.0001*
MCN1-COMP-T	27.67	<.0001*
MCN3-COMP	27.3	<.0001*
BIME-COMP-T-M	11.44	0.0034*
BIMW-COMP-T-M	-9.79	0.3008
MCN5-COMP	-20.9	0.9245
MCN4-COMP	-25.1	0.9963
BIN-COMP-T	-31	1.0000
LA3-REF	-31.6	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	141.500	127.500	28.3000	0.437
BIMW-COMP-T-M	5	97.000	127.500	19.4000	-0.970
BIN-COMP-T	5	53.000	127.500	10.6000	-2.393
LA3-REF	5	47.000	127.500	9.4000	-2.587
MCN1-COMP-T	5	178.000	127.500	35.6000	1.617
MCN2-COMP-T	5	191.000	127.500	38.2000	2.038
MCN3-COMP	5	176.000	127.500	35.2000	1.552
MCN4-COMP	5	62.000	127.500	12.4000	-2.102
MCN5-COMP	5	89.500	127.500	17.9000	-1.213
TB	5	240.000	127.500	48.0000	3.622

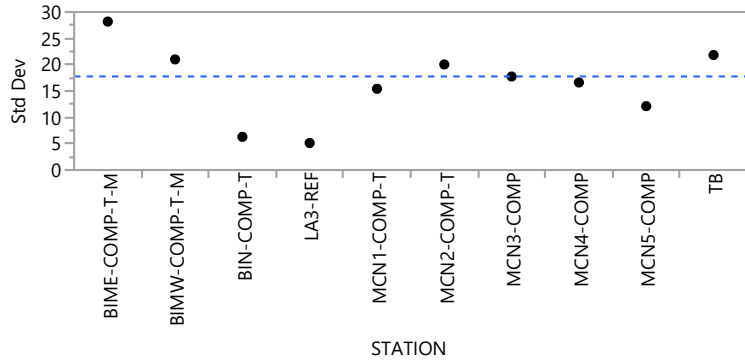
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
38.1117	9	<.0001*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB097**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	28.18406	20.13081	20.08318
BIMW-COMP-T-M	5	21.00241	17.83142	16.41724
BIN-COMP-T	5	6.29981	4.67273	4.66418
LA3-REF	5	5.12678	3.94306	3.37464
MCN1-COMP-T	5	15.41747	12.01470	11.41196
MCN2-COMP-T	5	20.04432	16.80530	15.25822
MCN3-COMP	5	17.74506	13.11218	12.46834
MCN4-COMP	5	16.61449	11.70642	8.42762
MCN5-COMP	5	12.12122	10.60704	8.96160
TB	5	21.83654	16.96056	15.46360

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.0958	9	40	0.3876
Brown-Forsythe	0.9483	9	40	0.4956
Levene	1.8658	9	40	0.0860
Bartlett	1.5592	9	.	0.1212

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

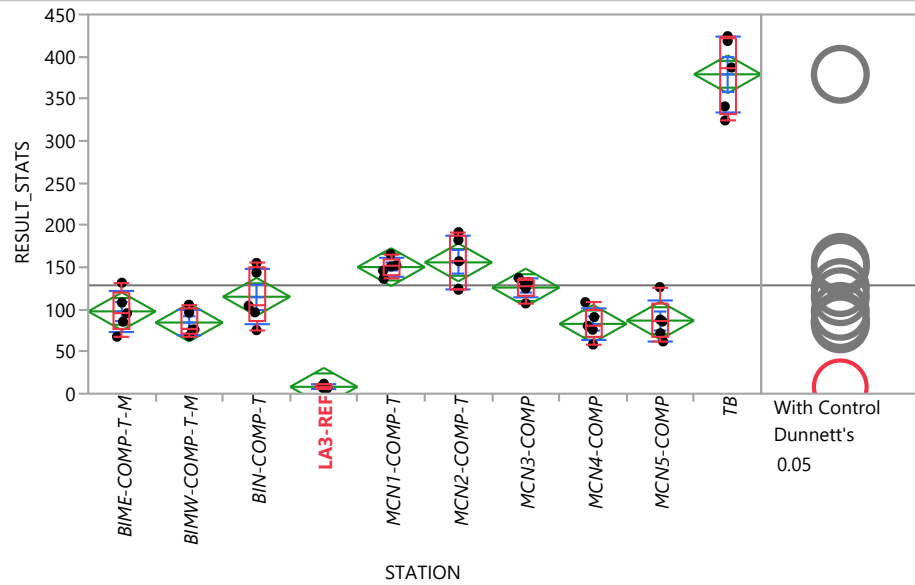
q*		Alpha	Score Mean		Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	Plot
1.95996		0.05	Difference	Std Err Dif						
MCN1-COMP-T	BIN-COMP-T		4.80000	1.914854	2.50672	0.0122*	58.261	33.438	80.136	
MCN1-COMP-T	LA3-REF		4.80000	1.914854	2.50672	0.0122*	59.091	37.313	81.125	
MCN2-COMP-T	BIMW-COMP-T-M		4.80000	1.914854	2.50672	0.0122*	51.779	10.340	95.262	
MCN2-COMP-T	BIN-COMP-T		4.80000	1.914854	2.50672	0.0122*	62.013	44.715	97.967	
MCN2-COMP-T	LA3-REF		4.80000	1.914854	2.50672	0.0122*	64.091	45.244	98.956	
MCN3-COMP	BIN-COMP-T		4.80000	1.914854	2.50672	0.0122*	55.108	36.576	88.817	
MCN3-COMP	LA3-REF		4.80000	1.914854	2.50672	0.0122*	55.403	37.903	89.806	

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB097**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	156.266	102.728	213.639	
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	179.654	129.760	222.491	
TB	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	206.308	162.226	225.196	
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	207.010	166.101	226.185	
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	143.369	97.175	174.982	
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	130.811	83.586	169.595	
TB	MCN3-COMP	4.80000	1.914854	2.50672	0.0122*	145.811	103.864	176.935	
TB	MCN4-COMP	4.80000	1.909043	2.51435	0.0119*	197.848	156.266	222.491	
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	190.558	144.364	221.347	
MCN1-COMP-T	BIMW-COMP-T-M	4.40000	1.914854	2.29783	0.0216*	38.131	0.972	77.431	
MCN3-COMP	BIMW-COMP-T-M	4.40000	1.914854	2.29783	0.0216*	41.270	3.000	86.112	
MCN5-COMP	LA3-REF	3.20000	1.914854	1.67115	0.0947	5.462	-6.509	27.646	
MCN5-COMP	MCN4-COMP	2.60000	1.903214	1.36611	0.1719	1.768	-33.957	29.037	
MCN2-COMP-T	BIME-COMP-T-M	2.40000	1.914854	1.25336	0.2101	19.142	-17.903	83.859	
MCN5-COMP	BIN-COMP-T	2.40000	1.914854	1.25336	0.2101	9.672	-5.662	31.672	
MCN1-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	13.239	-26.061	70.270	
MCN2-COMP-T	MCN1-COMP-T	1.20000	1.914854	0.62668	0.5309	8.571	-24.535	45.202	
MCN3-COMP	BIME-COMP-T-M	1.20000	1.914854	0.62668	0.5309	12.880	-25.244	63.581	
MCN4-COMP	BIN-COMP-T	0.80000	1.909043	0.41906	0.6752	0.690	-11.175	37.806	
MCN4-COMP	LA3-REF	0.40000	1.909043	0.20953	0.8340	3.535	-7.652	38.796	
MCN3-COMP	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	-0.581	-31.875	34.127	
LA3-REF	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.989	-10.500	10.358	
MCN5-COMP	BIMW-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-13.208	-41.412	24.927	
MCN3-COMP	MCN2-COMP-T	-1.20000	1.914854	-0.62668	0.5309	-8.138	-49.706	33.216	
MCN4-COMP	BIMW-COMP-T-M	-1.60000	1.891501	-0.84589	0.3976	-7.455	-43.641	35.101	
BIMW-COMP-T-M	BIME-COMP-T-M	-2.00000	1.914854	-1.04447	0.2963	-27.033	-70.800	37.685	
BIN-COMP-T	BIMW-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-28.309	-46.276	7.065	
MCN5-COMP	BIME-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-40.240	-69.656	23.081	
MCN4-COMP	BIME-COMP-T-M	-3.00000	1.903214	-1.57628	0.1150	-41.539	-70.800	1.081	
LA3-REF	BIMW-COMP-T-M	-3.20000	1.914854	-1.67115	0.0947	-29.507	-46.250	7.652	
BIN-COMP-T	BIME-COMP-T-M	-3.60000	1.914854	-1.88004	0.0601	-44.218	-73.505	5.219	
LA3-REF	BIME-COMP-T-M	-4.00000	1.914854	-2.08893	0.0367*	-45.629	-74.494	1.344	
MCN4-COMP	MCN1-COMP-T	-4.80000	1.909043	-2.51435	0.0119*	-55.000	-77.431	-16.883	
MCN4-COMP	MCN2-COMP-T	-4.80000	1.909043	-2.51435	0.0119*	-60.000	-95.262	-17.795	
MCN4-COMP	MCN3-COMP	-4.80000	1.909043	-2.51435	0.0119*	-52.037	-86.112	-10.455	
MCN5-COMP	MCN1-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-50.840	-76.287	-15.576	
MCN5-COMP	MCN2-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-58.788	-94.118	-26.853	
MCN5-COMP	MCN3-COMP	-4.80000	1.914854	-2.50672	0.0122*	-44.412	-84.968	-18.714	

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB099**



Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	67.6923	67.6923	76.5734	95.4545	119.9075	131.707	131.707
BIMW-COMP-T-M	68.2927	68.2927	72.14635	76.1905	100.8912	105.556	105.556
BIN-COMP-T	75.4098	75.4098	85.98075	104.348	149.461	155.172	155.172
LA3-REF	6.42105	6.42105	6.641775	6.93182	10.31773	11.8065	11.8065
MCN1-COMP-T	136.364	136.364	141.155	151.02	158.949	165.625	165.625
MCN2-COMP-T	123.404	123.404	123.997	157.143	187.01	191.667	191.667
MCN3-COMP	107.143	107.143	116.0715	127.778	134.8545	137.209	137.209
MCN4-COMP	58.3333	58.3333	67.1296	80.5556	99.74005	108.571	108.571
MCN5-COMP	62	62	66.84905	85.7143	107.1749	126.471	126.471
TB	324.324	324.324	332.6165	387.097	421.4235	424.242	424.242

**Oneway Anova**

**Summary of Fit**

Rsquare	0.94529
Adj Rsquare	0.93298
Root Mean Square Error	24.85198
Mean of Response	128.6003
Observations (or Sum Wgts)	50

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB099**

**Oneway Anova**

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	9	426852.10	47428.0	76.7915	<.0001*
Error	40	24704.84	617.6		
C. Total	49	451556.94			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	97.683	11.114	75.2	120.15
BIMW-COMP-T-M	5	84.453	11.114	62.0	106.92
BIN-COMP-T	5	115.046	11.114	92.6	137.51
LA3-REF	5	8.170	11.114	-14.3	30.63
MCN1-COMP-T	5	150.246	11.114	127.8	172.71
MCN2-COMP-T	5	155.831	11.114	133.4	178.29
MCN3-COMP	5	125.926	11.114	103.5	148.39
MCN4-COMP	5	82.859	11.114	60.4	105.32
MCN5-COMP	5	86.752	11.114	64.3	109.21
TB	5	379.035	11.114	356.6	401.50

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	97.683	24.0845	10.771	67.78	127.59
BIMW-COMP-T-M	5	84.453	15.6910	7.017	64.97	103.94
BIN-COMP-T	5	115.046	33.3973	14.936	73.58	156.51
LA3-REF	5	8.170	2.2338	0.999	5.40	10.94
MCN1-COMP-T	5	150.246	10.6351	4.756	137.04	163.45
MCN2-COMP-T	5	155.831	31.6894	14.172	116.48	195.18
MCN3-COMP	5	125.926	11.4849	5.136	111.67	140.19
MCN4-COMP	5	82.859	18.5795	8.309	59.79	105.93
MCN5-COMP	5	86.752	24.5928	10.998	56.22	117.29
TB	5	379.035	45.0592	20.151	323.09	434.98

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB099****Means Comparisons****Comparisons with a control using Dunnett's Method****LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	326.7	<.0001*
MCN2-COMP-T	103.5	<.0001*
MCN1-COMP-T	97.88	<.0001*
MCN3-COMP	73.56	<.0001*
BIN-COMP-T	62.68	<.0001*
BIME-COMP-T-M	45.32	<.0001*
MCN5-COMP	34.39	<.0001*
BIMW-COMP-T-M	32.09	0.0002*
MCN4-COMP	30.49	0.0002*
LA3-REF	-44.2	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	103.000	127.500	20.6000	-0.776
BIMW-COMP-T-M	5	81.000	127.500	16.2000	-1.488
BIN-COMP-T	5	134.000	127.500	26.8000	0.194
LA3-REF	5	15.000	127.500	3.0000	-3.622
MCN1-COMP-T	5	195.000	127.500	39.0000	2.167
MCN2-COMP-T	5	188.000	127.500	37.6000	1.940
MCN3-COMP	5	157.000	127.500	31.4000	0.938
MCN4-COMP	5	79.000	127.500	15.8000	-1.552
MCN5-COMP	5	83.000	127.500	16.6000	-1.423
TB	5	240.000	127.500	48.0000	3.622

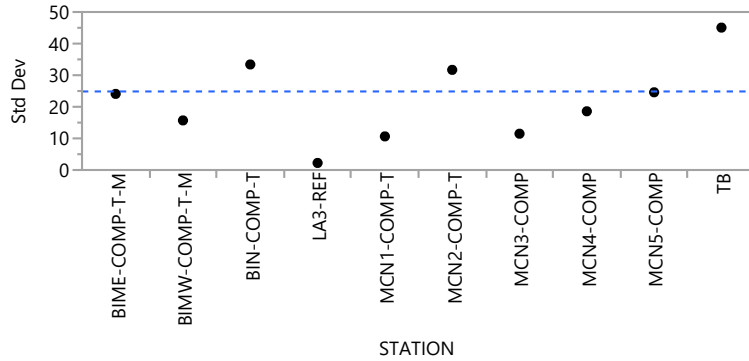
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
39.0932	9	<.0001*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB099**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	24.08453	17.77939	17.33364
BIMW-COMP-T-M	5	15.69098	13.15046	11.49794
BIN-COMP-T	5	33.39734	27.53176	25.39210
LA3-REF	5	2.23382	1.71805	1.47038
MCN1-COMP-T	5	10.63510	7.27248	7.11760
MCN2-COMP-T	5	31.68938	25.46752	25.20520
MCN3-COMP	5	11.48490	7.88360	7.51320
MCN4-COMP	5	18.57952	13.50486	13.04418
MCN5-COMP	5	24.59282	16.33797	16.13034
TB	5	45.05924	37.13512	35.52280

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	3.3305	9	40	0.0040*
Brown-Forsythe	2.4857	9	40	0.0233*
Levene	4.1528	9	40	0.0008*
Bartlett	3.0037	9	.	0.0014*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

		q*	Alpha						
		1.95996	0.05						
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
MCN1-COMP-T	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	55.566	14.239	84.581	
MCN1-COMP-T	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	69.399	40.138	89.625	
MCN1-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	142.191	127.535	158.763	
MCN2-COMP-T	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	76.797	19.034	115.667	
MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	150.211	112.784	184.805	
MCN3-COMP	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	40.983	10.917	64.207	
MCN3-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	120.694	98.314	130.347	

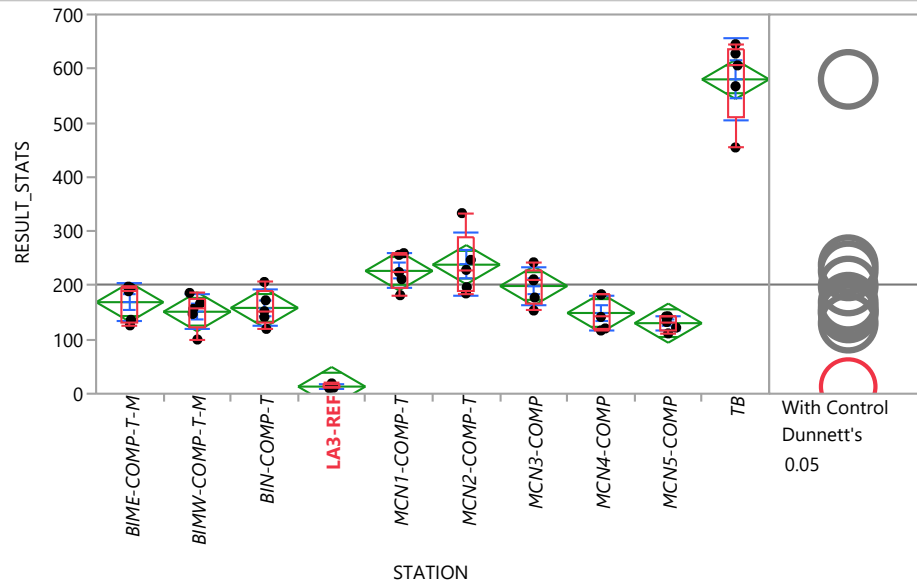


**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB099**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
MCN4-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	73.624	49.504	101.709	
MCN5-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	76.885	53.171	119.609	
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	286.898	209.202	350.913	
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	310.907	228.098	350.312	
TB	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	265.499	180.574	343.195	
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	380.165	315.495	417.380	
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	236.077	172.051	282.241	
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	226.938	141.971	299.652	
TB	MCN3-COMP	4.80000	1.914854	2.50672	0.0122*	259.319	191.824	311.462	
TB	MCN4-COMP	4.80000	1.914854	2.50672	0.0122*	306.541	232.338	360.272	
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	297.771	214.438	356.605	
MCN2-COMP-T	BIME-COMP-T-M	4.00000	1.914854	2.08893	0.0367*	56.898	-7.117	114.661	
MCN2-COMP-T	BIN-COMP-T	3.20000	1.914854	1.67115	0.0947	38.603	-30.582	106.943	
MCN3-COMP	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	29.546	-6.707	64.808	
MCN1-COMP-T	BIN-COMP-T	2.80000	1.914854	1.46225	0.1437	41.598	-9.226	76.863	
BIN-COMP-T	BIMW-COMP-T-M	2.40000	1.914854	1.25336	0.2101	28.259	-20.817	79.172	
BIN-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	12.043	-35.155	76.058	
MCN3-COMP	BIN-COMP-T	0.80000	1.914854	0.41779	0.6761	20.652	-36.607	57.090	
MCN2-COMP-T	MCN1-COMP-T	0.40000	1.914854	0.20889	0.8345	6.123	-41.035	45.989	
MCN4-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.074	-37.893	32.571	
MCN5-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-4.302	-34.226	50.471	
MCN5-COMP	MCN4-COMP	0.00000	1.914854	0.00000	1.0000	3.667	-36.873	50.545	
BIMW-COMP-T-M	BIME-COMP-T-M	-1.20000	1.914854	-0.62668	0.5309	-11.882	-55.707	28.534	
MCN5-COMP	BIME-COMP-T-M	-1.20000	1.914854	-0.62668	0.5309	-9.740	-60.009	41.017	
MCN3-COMP	MCN2-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-29.365	-75.210	12.619	
MCN4-COMP	BIME-COMP-T-M	-1.60000	1.914854	-0.83557	0.4034	-14.899	-55.781	23.217	
MCN4-COMP	BIN-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-28.422	-85.417	15.499	
MCN5-COMP	BIN-COMP-T	-2.80000	1.914854	-1.46225	0.1437	-24.854	-83.474	29.919	
MCN5-COMP	MCN2-COMP-T	-4.00000	1.914854	-2.08893	0.0367*	-65.196	-120.353	1.881	
MCN5-COMP	MCN3-COMP	-4.00000	1.914854	-2.08893	0.0367*	-44.621	-70.500	1.471	
MCN3-COMP	MCN1-COMP-T	-4.40000	1.914854	-2.29783	0.0216*	-23.242	-45.130	-3.864	
MCN4-COMP	MCN3-COMP	-4.40000	1.914854	-2.29783	0.0216*	-46.300	-74.167	-16.234	
LA3-REF	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-88.523	-124.845	-58.863	
LA3-REF	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-69.328	-98.694	-59.464	
LA3-REF	BIN-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-97.416	-148.310	-66.581	
MCN4-COMP	MCN1-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-70.020	-93.940	-37.375	
MCN4-COMP	MCN2-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-73.782	-124.020	-16.019	
MCN5-COMP	MCN1-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-65.306	-93.927	-19.475	

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB101**



Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	126.154	126.154	131.259	189.189	196.508	197.561	197.561
BIMW-COMP-T-M	100	100	123.611	156.604	176.3335	186	186
BIN-COMP-T	119.672	119.672	130.5255	152.174	189.332	206.25	206.25
LA3-REF	10.3158	10.3158	10.6704	11.1364	16.57595	18.9677	18.9677
MCN1-COMP-T	181.818	181.818	196.591	224.49	257.8545	259.459	259.459
MCN2-COMP-T	185.106	185.106	190.9135	228.571	290.196	333.333	333.333
MCN3-COMP	153.571	153.571	165.5355	209.302	226.8055	242.5	242.5
MCN4-COMP	116.667	116.667	118.561	141.667	183.095	183.333	183.333
MCN5-COMP	111.321	111.321	116.6605	132.353	142.6405	142.857	142.857
TB	454.545	454.545	511.0565	606.061	636.534	645.161	645.161

**Oneway Anova**

**Summary of Fit**

Rsquare	0.938138
Adj Rsquare	0.924219
Root Mean Square Error	40.00928
Mean of Response	201.4813
Observations (or Sum Wgts)	50

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB101**

**Oneway Anova**

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	9	971006.8	107890	67.3998	<.0001*
Error	40	64029.7	1601		
C. Total	49	1035036.5			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	168.945	17.893	132.8	205.11
BIMW-COMP-T-M	5	151.299	17.893	115.1	187.46
BIN-COMP-T	5	158.378	17.893	122.2	194.54
LA3-REF	5	13.126	17.893	-23.0	49.29
MCN1-COMP-T	5	226.676	17.893	190.5	262.84
MCN2-COMP-T	5	238.158	17.893	202.0	274.32
MCN3-COMP	5	198.797	17.893	162.6	234.96
MCN4-COMP	5	148.996	17.893	112.8	185.16
MCN5-COMP	5	130.191	17.893	94.0	166.35
TB	5	580.248	17.893	544.1	616.41

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	168.945	34.7277	15.531	125.82	212.06
BIMW-COMP-T-M	5	151.299	32.0807	14.347	111.47	191.13
BIN-COMP-T	5	158.378	32.8418	14.687	117.60	199.16
LA3-REF	5	13.126	3.5887	1.605	8.67	17.58
MCN1-COMP-T	5	226.676	32.4069	14.493	186.44	266.91
MCN2-COMP-T	5	238.158	58.6536	26.231	165.33	310.99
MCN3-COMP	5	198.797	34.1720	15.282	156.37	241.23
MCN4-COMP	5	148.996	32.5540	14.559	108.57	189.42
MCN5-COMP	5	130.191	13.5823	6.074	113.33	147.06
TB	5	580.248	76.0155	33.995	485.86	674.63

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB101**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	496	<.0001*
MCN2-COMP-T	153.9	<.0001*
MCN1-COMP-T	142.4	<.0001*
MCN3-COMP	114.5	<.0001*
BIME-COMP-T-M	84.67	<.0001*
BIN-COMP-T	74.1	<.0001*
BIMW-COMP-T-M	67.02	<.0001*
MCN4-COMP	64.72	<.0001*
MCN5-COMP	45.92	0.0003*
LA3-REF	-71.1	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	123.000	127.500	24.6000	-0.129
BIMW-COMP-T-M	5	100.000	127.500	20.0000	-0.873
BIN-COMP-T	5	103.000	127.500	20.6000	-0.776
LA3-REF	5	15.000	127.500	3.0000	-3.622
MCN1-COMP-T	5	190.000	127.500	38.0000	2.005
MCN2-COMP-T	5	189.000	127.500	37.8000	1.973
MCN3-COMP	5	160.000	127.500	32.0000	1.035
MCN4-COMP	5	89.000	127.500	17.8000	-1.229
MCN5-COMP	5	66.000	127.500	13.2000	-1.973
TB	5	240.000	127.500	48.0000	3.622

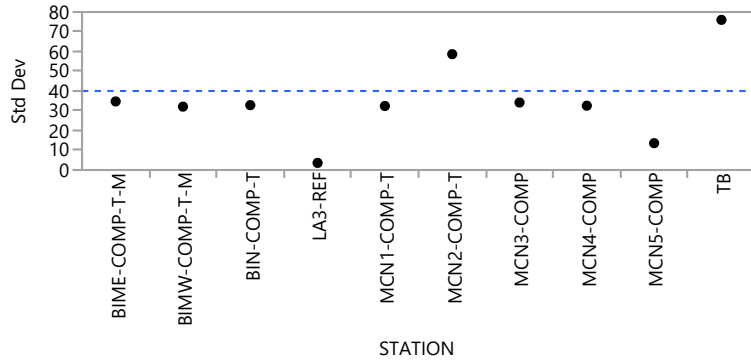
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
38.3045	9	<.0001*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB101**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	34.72775	30.14848	26.09960
BIMW-COMP-T-M	5	32.08071	22.15008	21.08900
BIN-COMP-T	5	32.84185	24.76336	23.52260
LA3-REF	5	3.58870	2.76010	2.36222
MCN1-COMP-T	5	32.40688	24.94264	24.50540
MCN2-COMP-T	5	58.65356	41.63040	39.71300
MCN3-COMP	5	34.17197	26.60904	24.50800
MCN4-COMP	5	32.55405	27.27936	25.81360
MCN5-COMP	5	13.58232	10.82440	10.39200
TB	5	76.01548	55.35352	50.19100

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.1785	9	40	0.3347
Brown-Forsythe	1.0981	9	40	0.3861
Levene	2.2344	9	40	0.0396*
Bartlett	2.9328	9	.	0.0018*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

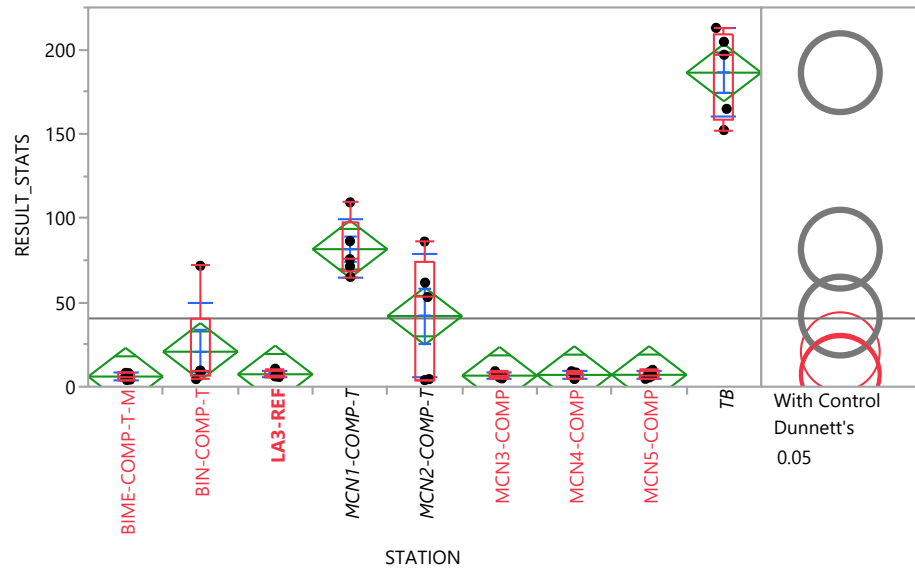
q*		Alpha	Score Mean		Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	Plot
1.95996	0.05	Difference	Std Err Dif							
MCN1-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	213.354	167.634	248.434		
MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	217.435	170.922	322.308		
MCN3-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	195.118	139.387	231.475		
MCN4-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	130.531	101.487	172.541		
MCN5-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	121.217	97.137	132.108		
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	431.204	259.090	508.797		
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	449.457	287.878	527.907		

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB101**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean		Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
		Difference	Std Err Dif						
TB	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	438.911	282.131	508.235	
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	594.925	440.361	634.136	
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	371.657	198.295	446.089	
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	370.847	207.486	448.440	
TB	MCN3-COMP	4.80000	1.914854	2.50672	0.0122*	396.759	243.434	474.336	
TB	MCN4-COMP	4.80000	1.914854	2.50672	0.0122*	447.113	271.688	524.706	
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	473.708	312.121	523.161	
MCN1-COMP-T	BIMW-COMP-T-M	4.40000	1.914854	2.29783	0.0216*	73.459	15.151	156.250	
MCN1-COMP-T	BIN-COMP-T	4.40000	1.914854	2.29783	0.0216*	69.985	5.114	136.578	
MCN2-COMP-T	BIMW-COMP-T-M	4.40000	1.914854	2.29783	0.0216*	80.392	10.721	186.111	
MCN2-COMP-T	BIN-COMP-T	4.00000	1.914854	2.08893	0.0367*	74.645	-9.529	191.954	
MCN1-COMP-T	BIME-COMP-T-M	3.60000	1.914854	1.88004	0.0601	60.795	-13.637	130.096	
MCN3-COMP	BIN-COMP-T	3.60000	1.914854	1.88004	0.0601	36.888	-28.750	101.121	
MCN2-COMP-T	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	57.870	-10.349	196.969	
MCN3-COMP	BIMW-COMP-T-M	3.20000	1.914854	1.67115	0.0947	52.698	-13.096	111.111	
MCN3-COMP	BIME-COMP-T-M	2.40000	1.914854	1.25336	0.2101	21.922	-41.884	106.136	
BIN-COMP-T	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	4.952	-46.995	72.414	
MCN2-COMP-T	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	3.288	-71.144	121.969	
BIN-COMP-T	BIME-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-16.692	-75.783	69.886	
MCN4-COMP	BIMW-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-3.143	-65.545	82.857	
MCN4-COMP	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-10.507	-85.795	63.185	
MCN5-COMP	MCN4-COMP	-0.80000	1.914854	-0.41779	0.6761	-9.314	-71.536	25.757	
BIMW-COMP-T-M	BIME-COMP-T-M	-1.60000	1.914854	-0.83557	0.4034	-26.154	-95.455	49.636	
MCN3-COMP	MCN2-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-31.535	-155.833	45.779	
MCN4-COMP	BIME-COMP-T-M	-2.40000	1.914854	-1.25336	0.2101	-14.228	-78.788	56.703	
MCN5-COMP	BIN-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-29.557	-84.250	22.752	
MCN3-COMP	MCN1-COMP-T	-2.80000	1.914854	-1.46225	0.1437	-28.247	-102.679	31.136	
MCN5-COMP	BIME-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-52.598	-84.134	16.270	
MCN5-COMP	BIMW-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-24.251	-64.000	42.424	
MCN4-COMP	MCN3-COMP	-3.20000	1.914854	-1.67115	0.0947	-57.045	-122.045	29.286	
MCN4-COMP	MCN1-COMP-T	-4.00000	1.914854	-2.08893	0.0367*	-76.126	-139.583	1.039	
LA3-REF	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-176.487	-186.536	-111.970	
LA3-REF	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-145.468	-174.975	-85.816	
LA3-REF	BIN-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-141.038	-195.225	-105.488	
MCN4-COMP	MCN2-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-76.266	-212.878	-2.249	
MCN5-COMP	MCN1-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-100.043	-144.929	-39.394	
MCN5-COMP	MCN2-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-96.218	-211.333	-42.682	
MCN5-COMP	MCN3-COMP	-4.80000	1.914854	-2.50672	0.0122*	-68.254	-120.500	-11.147	

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB105**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	4	4	4.115385	5.625	8.11223	8.17568	8.17568
BIN-COMP-T	4.5082	4.5082	6.550975	9.48276	40.61093	71.7391	71.7391
LA3-REF	5.78947	5.78947	5.988485	6.25	9.302865	10.6452	10.6452
MCN1-COMP-T	65.1515	65.1515	68.29005	75.6757	97.8693	109.375	109.375
MCN2-COMP-T	3.92857	3.92857	4.218385	53.1915	73.9379	86.1111	86.1111
MCN3-COMP	4.91071	4.91071	5.205355	6.1875	8.100775	9.16667	9.16667
MCN4-COMP	4.58333	4.58333	4.791665	7.85714	8.784725	9.16667	9.16667
MCN5-COMP	4.66981	4.66981	5.084905	6.47059	9.32143	10	10
TB	152.273	152.273	158.569	196.97	208.777	212.903	212.903

**Oneway Anova**

**Summary of Fit**

Rsquare	0.919879
Adj Rsquare	0.902075
Root Mean Square Error	18.73888
Mean of Response	40.51051
Observations (or Sum Wgts)	45

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB105**

**Oneway Anova**

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	8	145136.27	18142.0	51.6653	<.0001*
Error	36	12641.24	351.1		
C. Total	44	157777.51			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	6.016	8.3803	-11.0	23.01
BIN-COMP-T	5	20.761	8.3803	3.8	37.76
LA3-REF	5	7.367	8.3803	-9.6	24.36
MCN1-COMP-T	5	81.599	8.3803	64.6	98.59
MCN2-COMP-T	5	41.901	8.3803	24.9	58.90
MCN3-COMP	5	6.560	8.3803	-10.4	23.56
MCN4-COMP	5	7.002	8.3803	-10.0	24.00
MCN5-COMP	5	7.057	8.3803	-9.9	24.05
TB	5	186.332	8.3803	169.3	203.33

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	6.016	2.0125	0.900	3.5	8.51
BIN-COMP-T	5	20.761	28.5717	12.778	-14.7	56.24
LA3-REF	5	7.367	2.0141	0.901	4.9	9.87
MCN1-COMP-T	5	81.599	17.3439	7.756	60.1	103.13
MCN2-COMP-T	5	41.901	36.4579	16.304	-3.4	87.17
MCN3-COMP	5	6.560	1.6585	0.742	4.5	8.62
MCN4-COMP	5	7.002	2.0759	0.928	4.4	9.58
MCN5-COMP	5	7.057	2.2160	0.991	4.3	9.81
TB	5	186.332	26.3421	11.781	153.6	219.04

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.78823	0.05



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB105**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	145.9	<.0001*
MCN1-COMP-T	41.19	<.0001*
MCN2-COMP-T	1.49	0.0372*
BIN-COMP-T	-19.6	0.8080
LA3-REF	-33	1.0000
MCN5-COMP	-32.7	1.0000
MCN4-COMP	-32.7	1.0000
MCN3-COMP	-32.2	1.0000
BIME-COMP-T-M	-31.7	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	60.000	115.000	12.0000	-1.969
BIN-COMP-T	5	121.500	115.000	24.3000	0.217
LA3-REF	5	94.500	115.000	18.9000	-0.722
MCN1-COMP-T	5	185.000	115.000	37.0000	2.510
MCN2-COMP-T	5	108.500	115.000	21.7000	-0.217
MCN3-COMP	5	77.500	115.000	15.5000	-1.337
MCN4-COMP	5	83.500	115.000	16.7000	-1.120
MCN5-COMP	5	89.500	115.000	17.9000	-0.903
TB	5	215.000	115.000	43.0000	3.594

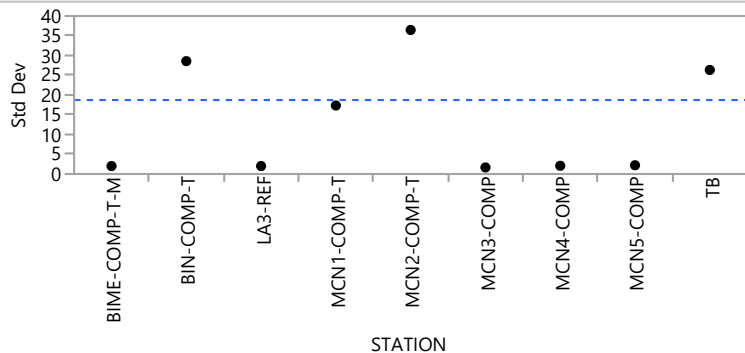
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
24.9108	8	0.0016*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB105**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	2.01250	1.67695	1.59874
BIN-COMP-T	5	28.57166	20.39111	13.62398
LA3-REF	5	2.01410	1.54906	1.32575
MCN1-COMP-T	5	17.34395	13.01634	11.83170
MCN2-COMP-T	5	36.45786	30.14594	27.88781
MCN3-COMP	5	1.65852	1.23266	1.15817
MCN4-COMP	5	2.07589	1.76826	1.59722
MCN5-COMP	5	2.21602	1.81182	1.69461
TB	5	26.34207	22.21072	20.08320

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	2.4604	8	36	0.0308*
Brown-Forsythe	2.5179	8	36	0.0276*
Levene	8.7204	8	36	<.0001*
Bartlett	9.0343	8	.	<.0001*

Warning: Small sample sizes. Use Caution.

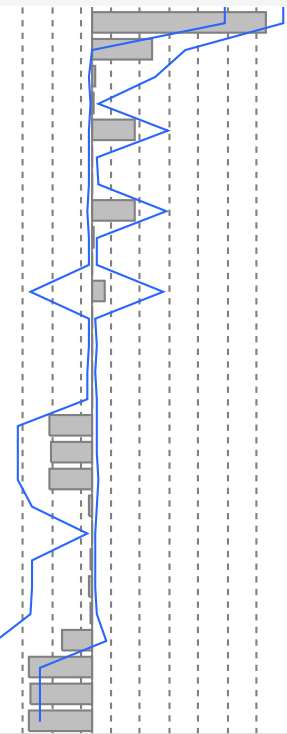
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
MCN1-COMP-T	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	70.051	57.103	105.144
MCN1-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	69.426	57.191	103.188
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	191.345	144.224	208.672
TB	BIN-COMP-T	4.80000	1.909043	2.51435	0.0119*	160.357	93.126	204.309
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	190.720	144.312	206.716
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	103.528	55.490	141.474
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	147.765	78.754	208.395
TB	MCN3-COMP	4.80000	1.914854	2.50672	0.0122*	190.783	145.238	207.403
TB	MCN4-COMP	4.80000	1.914854	2.50672	0.0122*	189.113	143.870	207.903

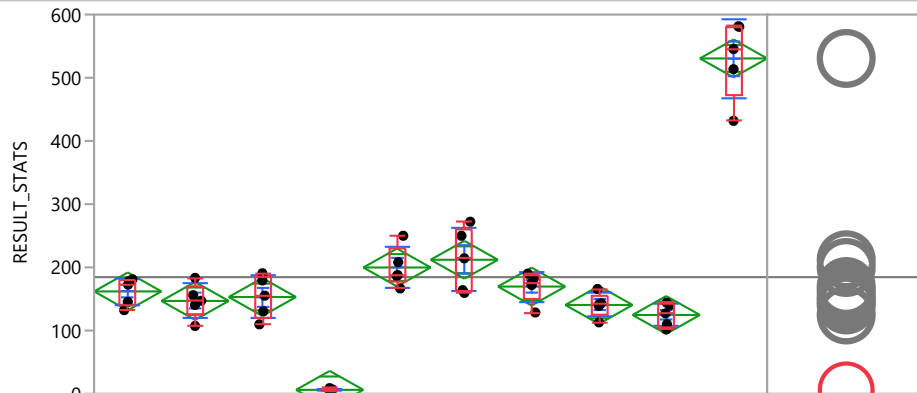
**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB105**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean		Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
		Difference	Std Err Dif						
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	190.499	143.630	207.403	
MCN1-COMP-T	BIN-COMP-T	4.00000	1.909043	2.09529	0.0361*	66.193	-0.310	100.781	
BIN-COMP-T	BIME-COMP-T-M	3.60000	1.909043	1.88576	0.0593	3.858	-3.541	67.508	
LA3-REF	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.789	-2.259	6.414	
MCN2-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	47.567	-4.120	81.880	
MCN4-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.769	-3.465	4.936	
MCN5-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.846	-3.379	5.769	
MCN2-COMP-T	LA3-REF	0.80000	1.914854	0.41779	0.6761	46.942	-6.137	79.924	
MCN3-COMP	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.911	-3.138	4.936	
MCN5-COMP	MCN4-COMP	0.40000	1.914854	0.20889	0.8345	0.240	-3.733	5.000	
MCN2-COMP-T	BIN-COMP-T	0.20000	1.903214	0.10509	0.9163	14.372	-67.231	77.517	
MCN4-COMP	MCN3-COMP	0.20000	1.909043	0.10476	0.9166	0.089	-4.167	3.667	
MCN5-COMP	MCN3-COMP	0.20000	1.909043	0.10476	0.9166	0.283	-3.667	4.500	
MCN4-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-0.789	-5.645	2.979	
MCN5-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-0.645	-5.145	3.813	
MCN3-COMP	MCN2-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-47.004	-80.611	4.658	
MCN4-COMP	MCN2-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-45.334	-81.111	4.658	
MCN5-COMP	MCN2-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-46.721	-80.611	5.492	
MCN5-COMP	BIN-COMP-T	-1.20000	1.909043	-0.62859	0.5296	-3.012	-66.239	4.135	
MCN3-COMP	LA3-REF	-1.40000	1.909043	-0.73335	0.4633	-0.750	-5.145	2.979	
LA3-REF	BIN-COMP-T	-1.60000	1.909043	-0.83812	0.4020	-2.406	-65.552	3.452	
MCN3-COMP	BIN-COMP-T	-2.40000	1.909043	-1.25717	0.2087	-3.094	-66.239	2.527	
MCN4-COMP	BIN-COMP-T	-2.40000	1.909043	-1.25717	0.2087	-1.626	-66.739	3.895	
MCN2-COMP-T	MCN1-COMP-T	-3.60000	1.914854	-1.88004	0.0601	-33.172	-104.867	14.682	
MCN3-COMP	MCN1-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-69.488	-103.875	-58.117	
MCN4-COMP	MCN1-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-67.819	-104.375	-56.749	
MCN5-COMP	MCN1-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-69.205	-103.875	-56.509	



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB110**



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB110**

BIME-COMP-T-M	BIMW-COMP-T-M	BIN-COMP-T	LA3-REF	MCN1-COMP-T	MCN2-COMP-T	MCN3-COMP	MCN4-COMP	MCN5-COMP	TB	With Control
										Dunnett's
										0.05
STATION										

**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	132.308	132.308	138.8815	172.727	179.565	181.081	181.081
BIMW-COMP-T-M	107.317	107.317	123.8965	147.17	169.6665	183.333	183.333
BIN-COMP-T	109.836	109.836	120.1355	155.172	184.9675	190.625	190.625
LA3-REF	4.84211	4.84211	5.008555	5.22727	7.780565	8.90323	8.90323
MCN1-COMP-T	166.667	166.667	176.5155	187.755	229.054	250	250
MCN2-COMP-T	159.574	159.574	161.754	214.286	261.111	272.222	272.222
MCN3-COMP	128.571	128.571	150.332	175	186.25	190	190
MCN4-COMP	112.963	112.963	125.926	141.667	154.448	165.714	165.714
MCN5-COMP	101.887	101.887	105.9435	127.273	142.059	144.118	144.118
TB	431.818	431.818	472.6655	545.455	581.02	581.395	581.395

**Oneway Anova**

**Summary of Fit**

Rsquare	0.948272
Adj Rsquare	0.936633
Root Mean Square Error	33.15483
Mean of Response	184.5139
Observations (or Sum Wgts)	50

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	9	806048.16	89560.9	81.4751	<.0001*
Error	40	43969.71	1099.2		
C. Total	49	850017.87			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	161.924	14.827	132.0	191.89
BIMW-COMP-T-M	5	146.859	14.827	116.9	176.83
BIN-COMP-T	5	153.076	14.827	123.1	183.04
LA3-REF	5	6.161	14.827	-23.8	36.13
MCN1-COMP-T	5	199.779	14.827	169.8	229.75
MCN2-COMP-T	5	212.003	14.827	182.0	241.97
MCN3-COMP	5	169.633	14.827	139.7	199.60
MCN4-COMP	5	140.483	14.827	110.5	170.45
MCN5-COMP	5	124.656	14.827	94.7	154.62
TB	5	530.565	14.827	500.6	560.53

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB110**

**Oneway Anova**

**Means for Oneway Anova**

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	161.924	21.7488	9.726	134.92	188.93
BIMW-COMP-T-M	5	146.859	27.4696	12.285	112.75	180.97
BIN-COMP-T	5	153.076	33.4845	14.975	111.50	194.65
LA3-REF	5	6.161	1.6845	0.753	4.07	8.25
MCN1-COMP-T	5	199.779	31.6720	14.164	160.45	239.10
MCN2-COMP-T	5	212.003	50.3357	22.511	149.50	274.50
MCN3-COMP	5	169.633	23.9860	10.727	139.85	199.42
MCN4-COMP	5	140.483	18.7429	8.382	117.21	163.76
MCN5-COMP	5	124.656	18.4003	8.229	101.81	147.50
TB	5	530.565	61.9579	27.708	453.63	607.50

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-LSD	p-Value
TB	465.4	<.0001*
MCN2-COMP-T	146.9	<.0001*
MCN1-COMP-T	134.7	<.0001*
MCN3-COMP	104.5	<.0001*
BIME-COMP-T-M	96.8	<.0001*
BIN-COMP-T	87.95	<.0001*
BIMW-COMP-T-M	81.74	<.0001*
MCN4-COMP	75.36	<.0001*
MCN5-COMP	59.53	<.0001*
LA3-REF	-59	1.0000

Positive values show pairs of means that are significantly different.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB110**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

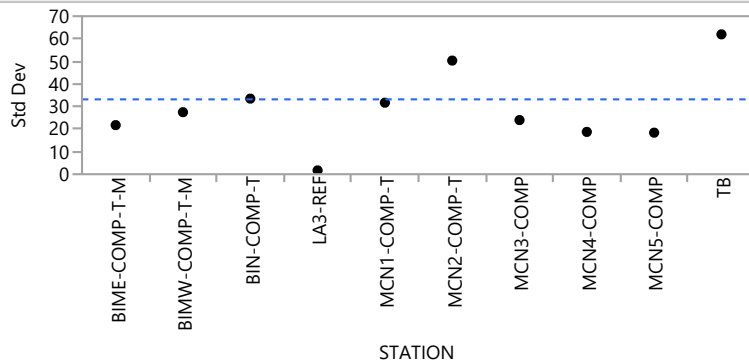
Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	131.000	127.500	26.2000	0.097
BIMW-COMP-T-M	5	106.000	127.500	21.2000	-0.679
BIN-COMP-T	5	117.000	127.500	23.4000	-0.323
LA3-REF	5	15.000	127.500	3.0000	-3.622
MCN1-COMP-T	5	187.500	127.500	37.5000	1.924
MCN2-COMP-T	5	181.500	127.500	36.3000	1.730
MCN3-COMP	5	146.000	127.500	29.2000	0.582
MCN4-COMP	5	89.000	127.500	17.8000	-1.229
MCN5-COMP	5	62.000	127.500	12.4000	-2.102
TB	5	240.000	127.500	48.0000	3.622

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
36.2634	9	<.0001*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif	
			to Mean	to Median
BIME-COMP-T-M	5	21.74883	18.43400	16.27340
BIMW-COMP-T-M	5	27.46962	18.37016	18.30800
BIN-COMP-T	5	33.48453	26.35208	25.93280
LA3-REF	5	1.68451	1.29557	1.10880
MCN1-COMP-T	5	31.67201	23.42016	21.01540
MCN2-COMP-T	5	50.33573	40.19936	39.74280
MCN3-COMP	5	23.98603	16.42472	14.36720
MCN4-COMP	5	18.74287	11.64560	11.40880
MCN5-COMP	5	18.40029	14.96968	14.44620
TB	5	61.95795	46.31976	43.34180

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB110**

**Tests that the Variances are Equal**

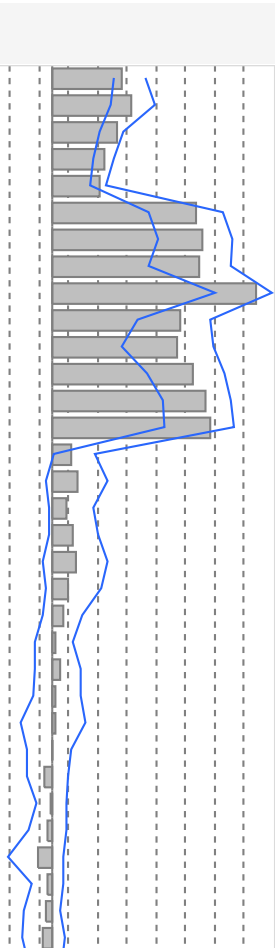
Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.6447	9	40	0.1356
Brown-Forsythe	1.8209	9	40	0.0944
Levene	2.8397	9	40	0.0111*
Bartlett	3.3103	9	.	0.0005*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q\* 1.95996  
Alpha 0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
MCN1-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	182.528	160.009	244.825
MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	209.059	152.916	267.047
MCN3-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	169.773	121.913	184.825
MCN4-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	135.009	106.305	160.539
MCN5-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	122.046	95.229	138.943
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	381.205	253.769	448.337
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	398.062	275.818	473.328
TB	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	390.283	252.508	470.809
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	540.228	425.160	576.220
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	337.347	223.710	413.978
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	330.645	181.818	421.071
TB	MCN3-COMP	4.80000	1.914854	2.50672	0.0122*	373.362	249.318	452.074
TB	MCN4-COMP	4.80000	1.914854	2.50672	0.0122*	403.788	288.636	467.682
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	418.182	291.818	478.758
MCN1-COMP-T	BIMW-COMP-T-M	4.40000	1.914854	2.29783	0.0216*	47.279	3.031	109.524
MCN2-COMP-T	BIMW-COMP-T-M	4.00000	1.914854	2.08893	0.0367*	66.667	-19.399	142.683
MCN1-COMP-T	BIME-COMP-T-M	3.60000	1.914854	1.88004	0.0601	34.359	-11.382	104.545
MCN1-COMP-T	BIN-COMP-T	3.20000	1.914854	1.67115	0.0947	52.936	-12.643	119.565
MCN2-COMP-T	BIN-COMP-T	3.20000	1.914854	1.67115	0.0947	59.114	-26.691	141.787
MCN2-COMP-T	BIME-COMP-T-M	2.40000	1.914854	1.25336	0.2101	41.559	-18.475	126.767
MCN3-COMP	BIMW-COMP-T-M	2.00000	1.914854	1.04447	0.2963	26.500	-27.429	75.183
MCN3-COMP	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	4.451	-49.478	50.192
MCN3-COMP	BIN-COMP-T	0.80000	1.914854	0.41779	0.6761	16.921	-50.739	72.664
BIN-COMP-T	BIMW-COMP-T-M	0.40000	1.914854	0.20889	0.8345	7.292	-52.898	71.993
MCN2-COMP-T	MCN1-COMP-T	0.20000	1.909043	0.10476	0.9166	6.178	-86.066	85.858
BIN-COMP-T	BIME-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-1.873	-68.213	47.002
BIMW-COMP-T-M	BIME-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-22.049	-70.732	37.878
MCN4-COMP	BIMW-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-5.503	-44.444	35.865
MCN4-COMP	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-13.596	-66.347	35.279
MCN3-COMP	MCN2-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-39.286	-121.429	26.066
MCN5-COMP	MCN4-COMP	-2.00000	1.914854	-1.04447	0.2963	-14.394	-55.714	27.037
MCN3-COMP	MCN1-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-18.108	-79.537	15.833
MCN5-COMP	BIN-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-28.548	-80.625	30.164

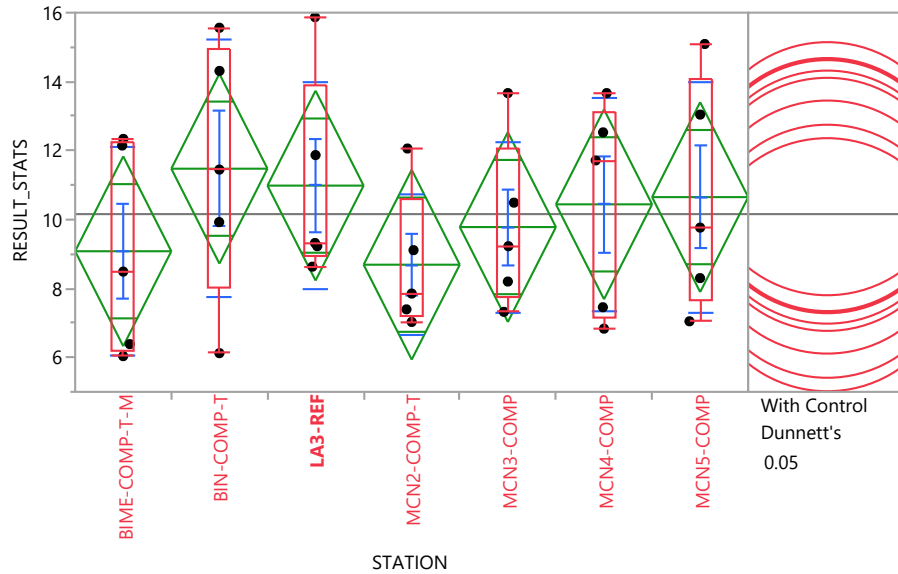


**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB110**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean		Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
		Difference	Std Err Dif						
MCN4-COMP	BIME-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-29.545	-65.086	20.259	
MCN5-COMP	BIMW-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-19.897	-73.333	32.683	
MCN4-COMP	MCN3-COMP	-3.20000	1.914854	-1.67115	0.0947	-33.204	-69.537	14.611	
MCN4-COMP	MCN2-COMP-T	-4.00000	1.914854	-2.08893	0.0367*	-72.619	-137.037	1.780	
MCN5-COMP	BIME-COMP-T-M	-4.00000	1.914854	-2.08893	0.0367*	-36.963	-76.162	7.692	
MCN5-COMP	MCN3-COMP	-4.00000	1.914854	-2.08893	0.0367*	-45.882	-80.613	11.429	
LA3-REF	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-167.500	-175.906	-125.650	
LA3-REF	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-141.943	-178.158	-100.659	
LA3-REF	BIN-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-149.945	-185.450	-103.178	
MCN4-COMP	MCN1-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-48.866	-111.111	-20.650	
MCN5-COMP	MCN1-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-68.108	-140.000	-26.667	
MCN5-COMP	MCN2-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-87.013	-162.222	-19.574	

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB114**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	6.03636	6.03636	6.21049	8.48864	12.24205	12.3378	12.3378
BIN-COMP-T	6.12295	6.12295	8.02343	11.4483	14.9364	15.5625	15.5625
LA3-REF	8.63158	8.63158	8.92829	9.31818	13.8697	15.871	15.871
MCN2-COMP-T	7.02857	7.02857	7.211005	7.85106	10.58496	12.0588	12.0588
MCN3-COMP	7.32143	7.32143	7.760715	9.225	12.07755	13.6667	13.6667
MCN4-COMP	6.83333	6.83333	7.14394	11.7143	13.09725	13.6667	13.6667



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB114**

Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
MCN5-COMP	7.04717	7.04717	7.673585	9.76471	14.0669	15.0909	15.0909

**Oneway Anova**

**Summary of Fit**

Rsquare	0.109149
Adj Rsquare	-0.08175
Root Mean Square Error	3.005576
Mean of Response	10.15608
Observations (or Sum Wgts)	35

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	6	30.99032	5.16505	0.5718	0.7493
Error	28	252.93756	9.03348		
C. Total	34	283.92787			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	9.0787	1.3441	6.3254	11.832
BIN-COMP-T	5	11.4736	1.3441	8.7203	14.227
LA3-REF	5	10.9828	1.3441	8.2295	13.736
MCN2-COMP-T	5	8.6886	1.3441	5.9353	11.442
MCN3-COMP	5	9.7803	1.3441	7.0270	12.534
MCN4-COMP	5	10.4393	1.3441	7.6860	13.193
MCN5-COMP	5	10.6491	1.3441	7.8958	13.402

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	9.0787	3.03702	1.3582	5.3078	12.850
BIN-COMP-T	5	11.4736	3.73489	1.6703	6.8361	16.111
LA3-REF	5	10.9828	3.00283	1.3429	7.2543	14.711
MCN2-COMP-T	5	8.6886	2.04153	0.9130	6.1537	11.223
MCN3-COMP	5	9.7803	2.47271	1.1058	6.7100	12.851
MCN4-COMP	5	10.4393	3.09497	1.3841	6.5964	14.282
MCN5-COMP	5	10.6491	3.34418	1.4956	6.4968	14.801

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB114**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**Confidence Quantile**

d	Alpha
2.73128	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
BIN-COMP-T	-4.7	0.9998
LA3-REF	-5.19	1.0000
MCN5-COMP	-4.86	1.0000
MCN4-COMP	-4.65	0.9996
MCN3-COMP	-3.99	0.9712
BIME-COMP-T-M	-3.29	0.8185
MCN2-COMP-T	-2.9	0.6836

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	70.000	90.000	14.0000	-0.919
BIN-COMP-T	5	110.000	90.000	22.0000	0.919
LA3-REF	5	107.500	90.000	21.5000	0.801
MCN2-COMP-T	5	63.000	90.000	12.6000	-1.249
MCN3-COMP	5	86.000	90.000	17.2000	-0.165
MCN4-COMP	5	94.500	90.000	18.9000	0.189
MCN5-COMP	5	99.000	90.000	19.8000	0.401

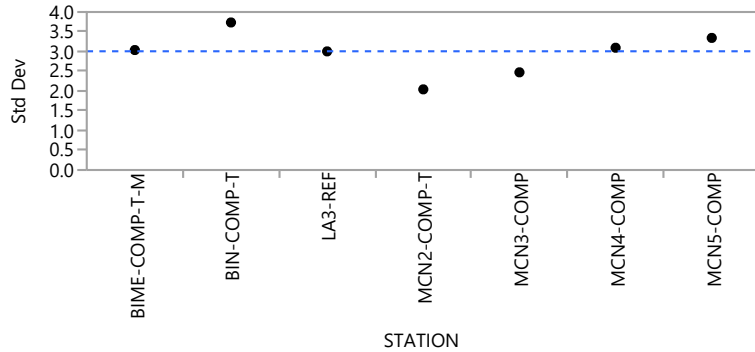
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
3.7201	6	0.7145

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB114**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	3.037020	2.530645	2.412624
BIN-COMP-T	5	3.734890	2.770246	2.765188
LA3-REF	5	3.002825	2.309494	1.976564
MCN2-COMP-T	5	2.041530	1.517087	1.349580
MCN3-COMP	5	2.472714	1.837795	1.726734
MCN4-COMP	5	3.094969	2.636317	2.381324
MCN5-COMP	5	3.344181	2.734211	2.557326

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	0.4438	6	28	0.8431
Brown-Forsythe	0.3109	6	28	0.9259
Levene	0.5879	6	28	0.7370
Bartlett	0.2668	6	.	0.9525

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

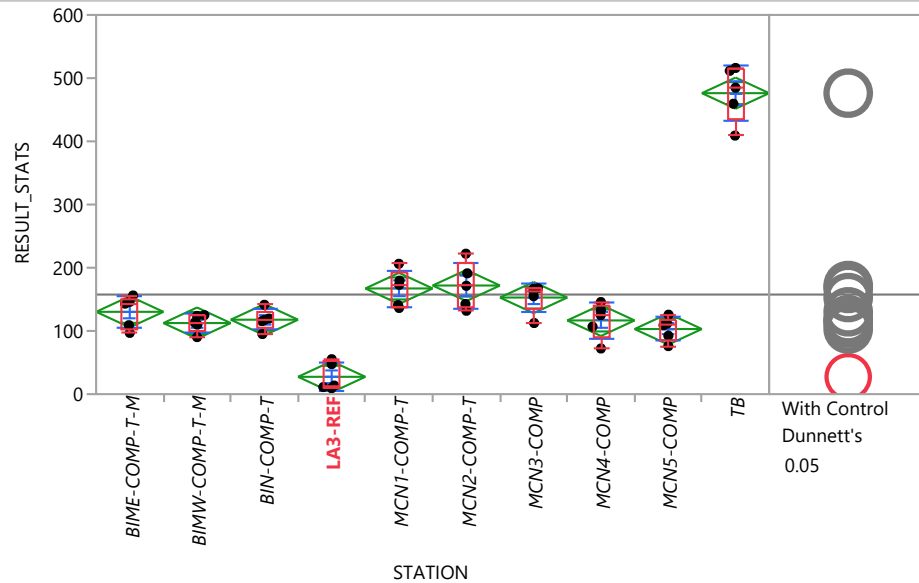
q*		Alpha									
1.95996		0.05									
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL			
MCN5-COMP	MCN2-COMP-T	2.00000	1.914854	1.04447	0.2963	1.27143	-3.75880	7.697460			
BIN-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	2.95966	-6.02335	9.177880			
LA3-REF	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	2.59522	-3.51472	9.486380			
MCN3-COMP	MCN2-COMP-T	1.60000	1.914854	0.83557	0.4034	1.17143	-3.85880	6.273260			
MCN4-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.06993	-5.31297	7.282080			
MCN5-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.27607	-5.09913	8.706280			
MCN4-COMP	MCN2-COMP-T	1.20000	1.914854	0.62668	0.5309	1.60790	-4.60425	6.273260			
MCN3-COMP	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	1.28507	-4.82487	7.282080			
MCN5-COMP	MCN3-COMP	0.40000	1.914854	0.20889	0.8345	0.53971	-5.36670	6.890900			
MCN5-COMP	MCN4-COMP	0.40000	1.914854	0.20889	0.8345	0.51510	-5.48063	7.636350			
MCN4-COMP	MCN3-COMP	0.20000	1.909043	0.10476	0.9166	0.13312	-6.21215	5.466700			

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB114**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean		Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
		Difference	Std Err Dif						
MCN2-COMP-T	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.08750	-5.11773	5.674180	
LA3-REF	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.69891	-6.33750	5.947090	
MCN4-COMP	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-1.78250	-8.10795	6.404850	
MCN4-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-1.17703	-8.41645	4.441700	
MCN5-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-0.78010	-7.57100	5.865900	
MCN5-COMP	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-1.26740	-7.26313	6.919950	
MCN3-COMP	LA3-REF	-1.40000	1.909043	-0.73335	0.4633	-1.11818	-7.67100	4.441700	
MCN3-COMP	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-1.89580	-7.36250	4.365450	
MCN2-COMP-T	BIN-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-2.89534	-8.16906	2.988160	
MCN2-COMP-T	LA3-REF	-2.80000	1.914854	-1.46225	0.1437	-1.83156	-8.47756	2.833800	

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB118**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	96.9231	96.9231	103.0071	143.182	151.022	156.098	156.098
BIMW-COMP-T-M	90.2439	90.2439	100.122	113.208	124.405	125	125
BIN-COMP-T	95.082	95.082	105.3535	117.241	130.472	141.379	141.379
LA3-REF	9.54545	9.54545	10.36483	13.5484	51.3816	55.2632	55.2632
MCN1-COMP-T	136.364	136.364	138.6365	172.973	192.921	206.25	206.25
MCN2-COMP-T	131.915	131.915	137.269	171.429	206.699	222.222	222.222
MCN3-COMP	112.5	112.5	133.75	162.5	167.0545	167.442	167.442
MCN4-COMP	72.2222	72.2222	89.5201	125	139.5235	145.714	145.714

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB118**

**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
MCN5-COMP	76	76	84.2264	109.091	118.7395	125.714	125.714
TB	409.091	409.091	434.275	484.848	513.8785	516.129	516.129

**Oneway Anova**

**Summary of Fit**

Rsquare	0.955529
Adj Rsquare	0.945523
Root Mean Square Error	27.26977
Mean of Response	157.5652
Observations (or Sum Wgts)	50

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	9	639135.36	71015.0	95.4965	<.0001*
Error	40	29745.62	743.6		
C. Total	49	668880.98			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	130.248	12.195	105.60	154.90
BIMW-COMP-T-M	5	112.452	12.195	87.80	137.10
BIN-COMP-T	5	117.778	12.195	93.13	142.43
LA3-REF	5	27.408	12.195	2.76	52.06
MCN1-COMP-T	5	167.218	12.195	142.57	191.87
MCN2-COMP-T	5	171.873	12.195	147.23	196.52
MCN3-COMP	5	152.822	12.195	128.17	177.47
MCN4-COMP	5	116.617	12.195	91.97	141.27
MCN5-COMP	5	103.005	12.195	78.36	127.65
TB	5	476.231	12.195	451.58	500.88

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	130.248	25.6910	11.489	98.3	162.15
BIMW-COMP-T-M	5	112.452	14.0200	6.270	95.0	129.86
BIN-COMP-T	5	117.778	16.4334	7.349	97.4	138.18
LA3-REF	5	27.408	22.1019	9.884	-0.0349	54.85
MCN1-COMP-T	5	167.218	28.9563	12.950	131.3	203.17
MCN2-COMP-T	5	171.873	36.6061	16.371	126.4	217.33
MCN3-COMP	5	152.822	23.0743	10.319	124.2	181.47
MCN4-COMP	5	116.617	28.5624	12.774	81.2	152.08
MCN5-COMP	5	103.005	19.1709	8.573	79.2	126.81
TB	5	476.231	43.8980	19.632	421.7	530.74

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB118**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	400.3	<.0001*
MCN2-COMP-T	95.97	<.0001*
MCN1-COMP-T	91.32	<.0001*
MCN3-COMP	76.92	<.0001*
BIME-COMP-T-M	54.35	<.0001*
BIN-COMP-T	41.88	<.0001*
MCN4-COMP	40.72	<.0001*
BIMW-COMP-T-M	36.55	0.0001*
MCN5-COMP	27.1	0.0007*
LA3-REF	-48.5	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	126.500	127.500	25.3000	-0.016
BIMW-COMP-T-M	5	86.500	127.500	17.3000	-1.310
BIN-COMP-T	5	100.000	127.500	20.0000	-0.873
LA3-REF	5	15.000	127.500	3.0000	-3.622
MCN1-COMP-T	5	184.000	127.500	36.8000	1.811
MCN2-COMP-T	5	185.000	127.500	37.0000	1.843
MCN3-COMP	5	166.000	127.500	33.2000	1.229
MCN4-COMP	5	101.500	127.500	20.3000	-0.825
MCN5-COMP	5	70.500	127.500	14.1000	-1.827
TB	5	240.000	127.500	48.0000	3.622

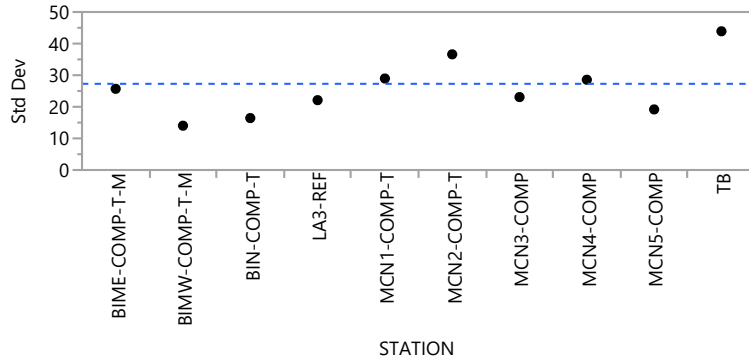
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
37.3273	9	<.0001*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB118**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	25.69098	21.79278	19.20598
BIMW-COMP-T-M	5	14.01999	9.86434	9.71322
BIN-COMP-T	5	16.43345	10.15488	10.04740
LA3-REF	5	22.10188	19.17868	16.40671
MCN1-COMP-T	5	28.95628	22.86488	21.71380
MCN2-COMP-T	5	36.60611	27.86080	27.77200
MCN3-COMP	5	23.07433	16.12872	13.32180
MCN4-COMP	5	28.56245	21.67787	20.00136
MCN5-COMP	5	19.17091	15.02253	13.80524
TB	5	43.89798	33.56480	31.84140

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.0987	9	40	0.3857
Brown-Forsythe	0.7711	9	40	0.6434
Levene	1.4569	9	40	0.1975
Bartlett	0.8827	9	.	0.5397

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*		Alpha							
1.95996		0.05							
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
MCN1-COMP-T	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	54.592	12.554	96.250	
MCN1-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	131.364	85.646	195.066	
MCN2-COMP-T	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	58.221	8.105	112.222	
MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	135.913	84.415	211.038	
MCN3-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	119.942	65.000	157.122	
MCN4-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	93.270	24.722	134.530	
MCN5-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	78.214	28.500	114.530	

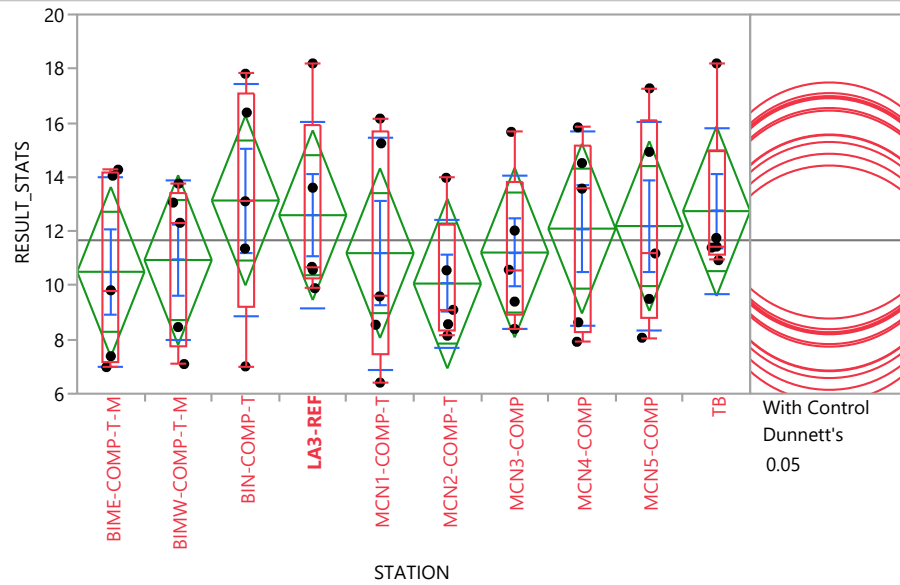
**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB118**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean		Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
		Difference	Std Err Dif						
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	355.530	263.145	414.705	
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	371.640	285.281	421.384	
TB	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	367.607	289.526	416.546	
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	456.365	361.591	504.945	
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	311.875	229.499	375.264	
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	313.419	217.915	379.713	
TB	MCN3-COMP	4.80000	1.914854	2.50672	0.0122*	329.848	242.424	399.128	
TB	MCN4-COMP	4.80000	1.914854	2.50672	0.0122*	365.914	275.758	439.406	
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	383.459	297.326	435.628	
MCN2-COMP-T	BIN-COMP-T	4.40000	1.914854	2.29783	0.0216*	51.864	1.244	106.597	
MCN1-COMP-T	BIN-COMP-T	4.00000	1.914854	2.08893	0.0367*	53.408	-0.470	90.625	
MCN3-COMP	BIMW-COMP-T-M	3.60000	1.914854	1.88004	0.0601	42.857	-11.310	76.423	
MCN3-COMP	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	19.318	-33.446	69.744	
MCN3-COMP	BIN-COMP-T	3.20000	1.914854	1.67115	0.0947	42.935	-7.065	71.585	
MCN1-COMP-T	BIME-COMP-T-M	2.40000	1.914854	1.25336	0.2101	33.646	-15.189	97.159	
MCN2-COMP-T	BIME-COMP-T-M	2.40000	1.914854	1.25336	0.2101	35.078	-14.031	113.131	
MCN4-COMP	BIMW-COMP-T-M	1.00000	1.909043	0.52382	0.6004	9.523	-51.588	43.089	
BIN-COMP-T	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	4.838	-28.728	31.379	
MCN4-COMP	BIN-COMP-T	0.40000	1.914854	0.20889	0.8345	5.435	-47.343	38.251	
MCN2-COMP-T	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	1.714	-63.627	81.313	
MCN5-COMP	BIMW-COMP-T-M	-1.20000	1.914854	-0.62668	0.5309	-12.045	-47.810	21.521	
MCN5-COMP	MCN4-COMP	-1.20000	1.914854	-0.62668	0.5309	-15.909	-57.333	39.543	
BIMW-COMP-T-M	BIME-COMP-T-M	-1.60000	1.914854	-0.83557	0.4034	-20.946	-55.702	26.887	
BIN-COMP-T	BIME-COMP-T-M	-1.60000	1.914854	-0.83557	0.4034	-14.719	-50.864	32.288	
MCN3-COMP	MCN1-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-12.925	-67.092	30.303	
MCN3-COMP	MCN2-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-19.415	-78.676	34.752	
MCN4-COMP	BIME-COMP-T-M	-1.60000	1.914854	-0.83557	0.4034	-12.613	-73.724	36.623	
MCN5-COMP	BIN-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-10.474	-48.926	16.683	
MCN5-COMP	BIME-COMP-T-M	-2.60000	1.909043	-1.36194	0.1732	-31.417	-69.946	16.623	
MCN4-COMP	MCN2-COMP-T	-3.60000	1.914854	-1.88004	0.0601	-57.843	-118.954	3.091	
MCN4-COMP	MCN3-COMP	-3.60000	1.914854	-1.88004	0.0601	-34.109	-94.445	20.833	
MCN4-COMP	MCN1-COMP-T	-4.00000	1.914854	-2.08893	0.0367*	-47.973	-107.370	4.805	
MCN5-COMP	MCN3-COMP	-4.40000	1.914854	-2.29783	0.0216*	-53.409	-90.667	-0.735	
LA3-REF	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-98.446	-144.914	-49.423	
LA3-REF	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-80.698	-114.265	-42.744	
LA3-REF	BIN-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-93.879	-130.195	-47.582	
MCN5-COMP	MCN1-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-63.882	-113.797	-15.195	
MCN5-COMP	MCN2-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-65.462	-129.769	-16.909	



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB119**



Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	6.98182	6.98182	7.18322	9.81818	14.15955	14.2703	14.2703
BIMW-COMP-T-M	7.09434	7.09434	7.77717	12.3095	13.40585	13.7561	13.7561
BIN-COMP-T	7.0082	7.0082	9.18345	13.1034	17.0959	17.8125	17.8125
LA3-REF	9.89474	9.89474	10.23487	10.6818	15.8994	18.1935	18.1935
MCN1-COMP-T	6.40909	6.40909	7.47727	9.59184	15.69975	16.1563	16.1563
MCN2-COMP-T	8.14286	8.14286	8.354215	9.09574	12.2631	13.9706	13.9706
MCN3-COMP	8.39286	8.39286	8.89643	10.575	13.845	15.6667	15.6667
MCN4-COMP	7.91667	7.91667	8.276515	13.5714	15.1736	15.8333	15.8333
MCN5-COMP	8.06604	8.06604	8.78302	11.1765	16.10065	17.2727	17.2727
TB	10.9302	10.9302	11.16205	11.4324	14.97175	18.1935	18.1935

**Oneway Anova**

**Summary of Fit**

Rsquare	0.089941
Adj Rsquare	-0.11482
Root Mean Square Error	3.46639
Mean of Response	11.66483
Observations (or Sum Wgts)	50

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB119**

**Oneway Anova**

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	9	47.50077	5.2779	0.4392	0.9054
Error	40	480.63439	12.0159		
C. Total	49	528.13517			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	10.5007	1.5502	7.3676	13.634
BIMW-COMP-T-M	5	10.9351	1.5502	7.8020	14.068
BIN-COMP-T	5	13.1324	1.5502	9.9993	16.266
LA3-REF	5	12.5901	1.5502	9.4570	15.723
MCN1-COMP-T	5	11.1892	1.5502	8.0561	14.322
MCN2-COMP-T	5	10.0661	1.5502	6.9330	13.199
MCN3-COMP	5	11.2116	1.5502	8.0785	14.345
MCN4-COMP	5	12.0943	1.5502	8.9612	15.227
MCN5-COMP	5	12.1888	1.5502	9.0557	15.322
TB	5	12.7400	1.5502	9.6069	15.873

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	10.5007	3.51273	1.5709	6.1391	14.862
BIMW-COMP-T-M	5	10.9351	2.96737	1.3270	7.2506	14.620
BIN-COMP-T	5	13.1324	4.27488	1.9118	7.8245	18.440
LA3-REF	5	12.5901	3.44223	1.5394	8.3160	16.864
MCN1-COMP-T	5	11.1892	4.28653	1.9170	5.8667	16.512
MCN2-COMP-T	5	10.0661	2.36520	1.0578	7.1293	13.003
MCN3-COMP	5	11.2116	2.83457	1.2677	7.6920	14.731
MCN4-COMP	5	12.0943	3.58561	1.6035	7.6422	16.546
MCN5-COMP	5	12.1888	3.82767	1.7118	7.4361	16.941
TB	5	12.7400	3.06259	1.3696	8.9373	16.543

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB119****Means Comparisons****Comparisons with a control using Dunnett's Method****LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
BIN-COMP-T	-5.62	1.0000
TB	-6.01	1.0000
LA3-REF	-6.16	1.0000
MCN5-COMP	-5.76	1.0000
MCN4-COMP	-5.67	1.0000
MCN3-COMP	-4.79	0.9936
MCN1-COMP-T	-4.76	0.9929
BIMW-COMP-T-M	-4.51	0.9792
BIME-COMP-T-M	-4.07	0.9239
MCN2-COMP-T	-3.64	0.8223

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	102.000	127.500	20.4000	-0.808
BIMW-COMP-T-M	5	113.000	127.500	22.6000	-0.453
BIN-COMP-T	5	156.000	127.500	31.2000	0.906
LA3-REF	5	148.000	127.500	29.6000	0.647
MCN1-COMP-T	5	116.000	127.500	23.2000	-0.356
MCN2-COMP-T	5	91.000	127.500	18.2000	-1.164
MCN3-COMP	5	118.500	127.500	23.7000	-0.275
MCN4-COMP	5	137.000	127.500	27.4000	0.291
MCN5-COMP	5	136.000	127.500	27.2000	0.259
TB	5	157.500	127.500	31.5000	0.954

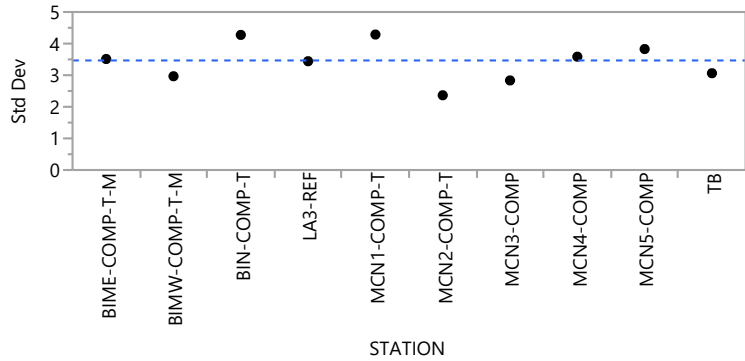
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
4.4249	9	0.8813

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB119**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	3.512734	2.927045	2.790532
BIMW-COMP-T-M	5	2.967368	2.526350	2.251472
BIN-COMP-T	5	4.274879	3.170784	3.164980
LA3-REF	5	3.442235	2.647466	2.265812
MCN1-COMP-T	5	4.286532	3.608459	3.288992
MCN2-COMP-T	5	2.365205	1.757621	1.563554
MCN3-COMP	5	2.834573	2.106742	1.979428
MCN4-COMP	5	3.585608	3.054249	2.758834
MCN5-COMP	5	3.827665	3.129506	2.927052
TB	5	3.062595	2.181400	1.523880

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	0.4546	9	40	0.8959
Brown-Forsythe	0.3379	9	40	0.9567
Levene	0.6659	9	40	0.7342
Bartlett	0.2455	9	.	0.9877

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

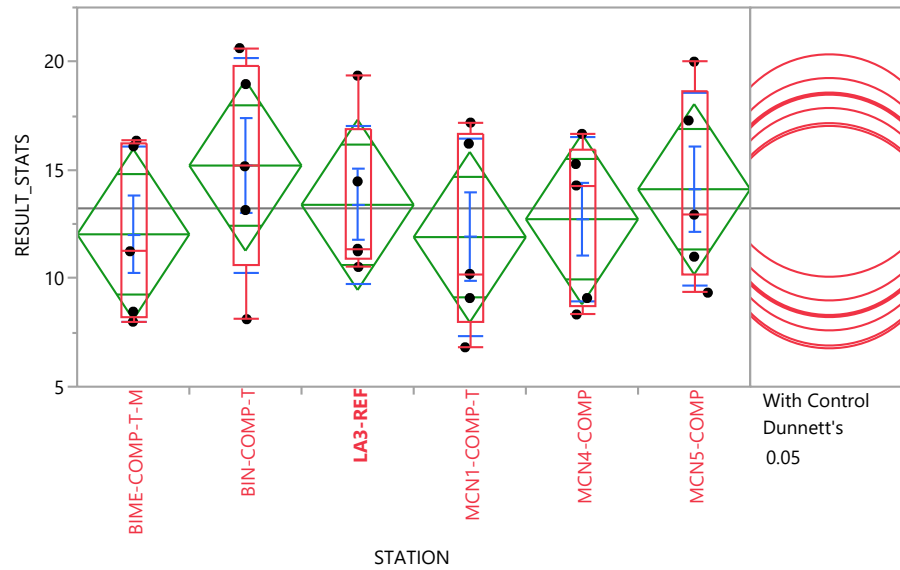
q*		Alpha							
1.95996		0.05							
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
TB	MCN2-COMP-T	3.20000	1.914854	1.67115	0.0947	2.65426	-2.57670	9.62793	
BIN-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	3.28522	-7.04060	10.42788	
LA3-REF	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	2.91292	-4.15406	10.80888	
MCN3-COMP	MCN2-COMP-T	1.60000	1.914854	0.83557	0.4034	1.25714	-4.57060	7.10113	
MCN4-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.25174	-6.13213	8.44868	
MCN4-COMP	BIMW-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.26190	-5.13893	7.41956	
MCN5-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.35832	-5.98276	9.88808	

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB119**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean		Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
		Difference	Std Err Dif						
MCN5-COMP	MCN2-COMP-T	1.60000	1.914854	0.83557	0.4034	1.35714	-4.47060	8.70713	
TB	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	3.54558	-3.11860	10.80888	
TB	MCN1-COMP-T	1.60000	1.914854	0.83557	0.4034	2.15816	-4.76240	9.64805	
TB	MCN3-COMP	1.60000	1.914854	0.83557	0.4034	1.53020	-4.27280	8.79350	
TB	LA3-REF	1.40000	1.909043	0.73335	0.4633	0.75060	-6.79960	7.61850	
BIN-COMP-T	BIMW-COMP-T-M	1.20000	1.914854	0.62668	0.5309	2.89870	-6.04740	9.35250	
MCN4-COMP	MCN2-COMP-T	1.20000	1.914854	0.62668	0.5309	1.86270	-5.33424	7.26773	
TB	MCN5-COMP	1.20000	1.914854	0.62668	0.5309	0.92080	-5.87880	8.69350	
LA3-REF	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	1.43474	-3.18110	9.73350	
MCN3-COMP	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	1.39640	-5.65594	8.28208	
MCN5-COMP	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	1.17250	-4.98956	8.81270	
MCN1-COMP-T	BIME-COMP-T-M	0.40000	1.914854	0.20889	0.8345	1.16083	-7.63971	8.77168	
MCN1-COMP-T	BIMW-COMP-T-M	0.40000	1.914854	0.20889	0.8345	1.13184	-6.64651	8.14886	
MCN4-COMP	MCN3-COMP	0.40000	1.914854	0.20889	0.8345	0.24350	-7.03034	6.43330	
MCN5-COMP	MCN1-COMP-T	0.40000	1.914854	0.20889	0.8345	1.11640	-7.17716	8.72725	
MCN5-COMP	MCN3-COMP	0.40000	1.914854	0.20889	0.8345	0.60150	-6.16670	7.87270	
MCN5-COMP	MCN4-COMP	0.40000	1.914854	0.20889	0.8345	0.41470	-6.44786	8.63634	
BIMW-COMP-T-M	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.29028	-6.95446	6.37148	
MCN2-COMP-T	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.07820	-5.90594	6.58598	
MCN2-COMP-T	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.31714	-5.19053	5.51060	
MCN3-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.06714	-4.66274	7.20670	
MCN3-COMP	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	0.42350	-6.85034	7.12125	
MCN4-COMP	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	0.09091	-7.51994	8.10481	
TB	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	2.47020	-2.36220	9.73350	
TB	BIN-COMP-T	0.00000	1.914854	0.00000	1.0000	-0.42850	-6.41860	6.83480	
TB	MCN4-COMP	0.00000	1.914854	0.00000	1.0000	2.29384	-4.43940	9.55714	
LA3-REF	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.78370	-7.23750	6.83480	
MCN2-COMP-T	MCN1-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.49610	-7.59073	5.42515	
MCN4-COMP	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-1.86540	-9.17614	7.50570	
MCN4-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-1.25838	-9.55714	5.25830	
MCN5-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-0.92080	-8.69350	6.69770	
MCN5-COMP	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-1.45070	-8.31326	7.92040	
MCN3-COMP	LA3-REF	-1.40000	1.909043	-0.73335	0.4633	-1.28180	-8.79350	5.09170	
MCN1-COMP-T	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-1.76686	-9.97021	8.23500	
MCN1-COMP-T	LA3-REF	-1.60000	1.914854	-0.83557	0.4034	-2.02955	-9.64805	5.58130	
MCN3-COMP	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-2.14580	-8.41250	5.01510	
MCN2-COMP-T	BIN-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-3.21584	-9.24693	3.54740	
MCN2-COMP-T	LA3-REF	-2.80000	1.914854	-1.46225	0.1437	-2.00943	-9.62793	3.39560	

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB123**



Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	8	8	8.23077	11.25	16.2245	16.3514	16.3514
BIN-COMP-T	8.11475	8.11475	10.63348	15.1724	19.79525	20.625	20.625
LA3-REF	10.5263	10.5263	10.88815	11.3636	16.91425	19.3548	19.3548
MCN1-COMP-T	6.81818	6.81818	7.954545	10.2041	16.70185	17.1875	17.1875
MCN4-COMP	8.33333	8.33333	8.71212	14.2857	15.97225	16.6667	16.6667
MCN5-COMP	9.33962	9.33962	10.16981	12.9412	18.64285	20	20

**Oneway Anova**

**Summary of Fit**

Rsquare	0.085674
Adj Rsquare	-0.10481
Root Mean Square Error	4.258233
Mean of Response	13.22989
Observations (or Sum Wgts)	30

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	5	40.77729	8.1555	0.4498	0.8092
Error	24	435.18110	18.1325		
C. Total	29	475.95839			

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB123**

**Oneway Anova**

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	12.0321	1.9043	8.102	15.962
BIN-COMP-T	5	15.2060	1.9043	11.276	19.136
LA3-REF	5	13.3937	1.9043	9.463	17.324
MCN1-COMP-T	5	11.9034	1.9043	7.973	15.834
MCN4-COMP	5	12.7309	1.9043	8.801	16.661
MCN5-COMP	5	14.1133	1.9043	10.183	18.044

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	12.0321	4.02502	1.8000	7.0344	17.030
BIN-COMP-T	5	15.2060	4.94986	2.2136	9.0599	21.352
LA3-REF	5	13.3937	3.66196	1.6377	8.8468	17.941
MCN1-COMP-T	5	11.9034	4.56013	2.0394	6.2412	17.566
MCN4-COMP	5	12.7309	3.77435	1.6879	8.0444	17.417
MCN5-COMP	5	14.1133	4.43204	1.9821	8.6102	19.616

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.69532	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
BIN-COMP-T	-5.45	0.9396
MCN5-COMP	-6.54	0.9990
LA3-REF	-7.26	1.0000
MCN4-COMP	-6.6	0.9993
BIME-COMP-T-M	-5.9	0.9809
MCN1-COMP-T	-5.77	0.9721

Positive values show pairs of means that are significantly different.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB123**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

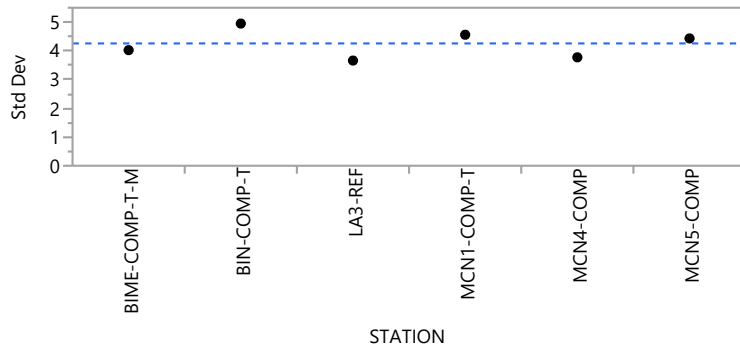
Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	63.500	77.500	12.7000	-0.751
BIN-COMP-T	5	95.000	77.500	19.0000	0.946
LA3-REF	5	82.500	77.500	16.5000	0.250
MCN1-COMP-T	5	63.500	77.500	12.7000	-0.751
MCN4-COMP	5	71.500	77.500	14.3000	-0.306
MCN5-COMP	5	89.000	77.500	17.8000	0.612

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
2.3017	5	0.8060

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif	
			to Mean	to Median
BIME-COMP-T-M	5	4.025017	3.353914	3.197492
BIN-COMP-T	5	4.949860	3.671424	3.664710
LA3-REF	5	3.661962	2.816456	2.410440
MCN1-COMP-T	5	4.560130	3.838778	3.498922
MCN4-COMP	5	3.774347	3.215014	2.904052
MCN5-COMP	5	4.432038	3.623637	3.389216

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	0.2542	5	24	0.9335
Brown-Forsythe	0.1368	5	24	0.9821
Levene	0.2050	5	24	0.9572
Bartlett	0.1003	5	.	0.9921

Warning: Small sample sizes. Use Caution.

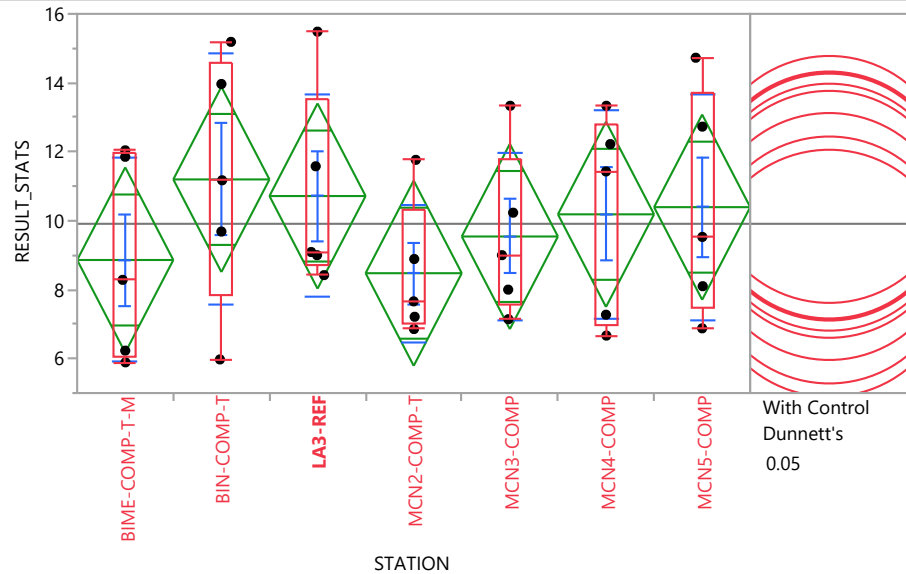


**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB123**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

		q*	Alpha						
		1.95996	0.05						
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
MCN5-COMP	MCN1-COMP-T	2.00000	1.914854	1.04447	0.2963	2.52144	-6.8766	10.90909	
BIN-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	3.92240	-7.9829	12.16346	
MCN5-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.69120	-6.7580	11.53846	
MCN5-COMP	MCN4-COMP	1.20000	1.914854	0.62668	0.5309	1.90909	-5.9382	10.90909	
LA3-REF	BIME-COMP-T-M	1.00000	1.909043	0.52382	0.6004	2.52630	-5.5713	10.89326	
MCN4-COMP	BIME-COMP-T-M	0.40000	1.914854	0.20889	0.8345	0.33333	-7.7643	8.20516	
MCN1-COMP-T	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.11860	-9.2794	8.72596	
MCN4-COMP	MCN1-COMP-T	0.00000	1.909043	0.00000	1.0000	0.00000	-8.0966	8.45962	
MCN5-COMP	LA3-REF	0.00000	1.914854	0.00000	1.0000	0.47370	-8.3548	8.75000	
MCN4-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-1.43539	-10.2639	5.41670	
MCN4-COMP	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-3.68770	-11.5341	7.16305	
MCN5-COMP	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-1.67980	-9.6259	9.17095	
LA3-REF	BIN-COMP-T	-1.20000	1.914854	-0.62668	0.5309	-1.90220	-9.3750	6.35895	
MCN1-COMP-T	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-3.43750	-12.1473	8.10145	
MCN1-COMP-T	LA3-REF	-1.60000	1.914854	-0.83557	0.4034	-2.15909	-10.2639	5.93750	

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB126**



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB126**

Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	5.89091	5.89091	6.06084	8.28409	11.9471	12.0405	12.0405
BIN-COMP-T	5.97541	5.97541	7.830095	11.1724	14.5765	15.1875	15.1875
LA3-REF	8.42105	8.42105	8.710525	9.09091	13.5314	15.4839	15.4839
MCN2-COMP-T	6.85714	6.85714	7.035125	7.65957	10.3268	11.7647	11.7647
MCN3-COMP	7.14286	7.14286	7.57143	9	11.78295	13.3333	13.3333
MCN4-COMP	6.66667	6.66667	6.9697	11.4286	12.77775	13.3333	13.3333
MCN5-COMP	6.87736	6.87736	7.48868	9.52941	13.72795	14.7273	14.7273

**Oneway Anova**

**Summary of Fit**

Rsquare	0.109216
Adj Rsquare	-0.08167
Root Mean Square Error	2.932748
Mean of Response	9.909676
Observations (or Sum Wgts)	35

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	6	29.52719	4.92120	0.5722	0.7490
Error	28	240.82826	8.60101		
C. Total	34	270.35545			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	8.8600	1.3116	6.1734	11.547
BIN-COMP-T	5	11.1971	1.3116	8.5105	13.884
LA3-REF	5	10.7150	1.3116	8.0283	13.402
MCN2-COMP-T	5	8.4767	1.3116	5.7901	11.163
MCN3-COMP	5	9.5418	1.3116	6.8551	12.228
MCN4-COMP	5	10.1847	1.3116	7.4981	12.871
MCN5-COMP	5	10.3925	1.3116	7.7059	13.079

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	8.8600	2.96386	1.3255	5.1799	12.540
BIN-COMP-T	5	11.1971	3.64490	1.6300	6.6714	15.723
LA3-REF	5	10.7150	2.92958	1.3101	7.0774	14.353
MCN2-COMP-T	5	8.4767	1.99174	0.8907	6.0036	10.950
MCN3-COMP	5	9.5418	2.41238	1.0788	6.5464	12.537
MCN4-COMP	5	10.1847	3.01946	1.3503	6.4355	13.934
MCN5-COMP	5	10.3925	3.26361	1.4595	6.3402	14.445

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB126**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.73128	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
BIN-COMP-T	-4.58	0.9997
LA3-REF	-5.07	1.0000
MCN5-COMP	-4.74	1.0000
MCN4-COMP	-4.54	0.9996
MCN3-COMP	-3.89	0.9713
BIME-COMP-T-M	-3.21	0.8194
MCN2-COMP-T	-2.83	0.6837

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	70.000	90.000	14.0000	-0.919
BIN-COMP-T	5	110.000	90.000	22.0000	0.919
LA3-REF	5	107.500	90.000	21.5000	0.801
MCN2-COMP-T	5	63.000	90.000	12.6000	-1.249
MCN3-COMP	5	86.000	90.000	17.2000	-0.165
MCN4-COMP	5	94.500	90.000	18.9000	0.189
MCN5-COMP	5	99.000	90.000	19.8000	0.401

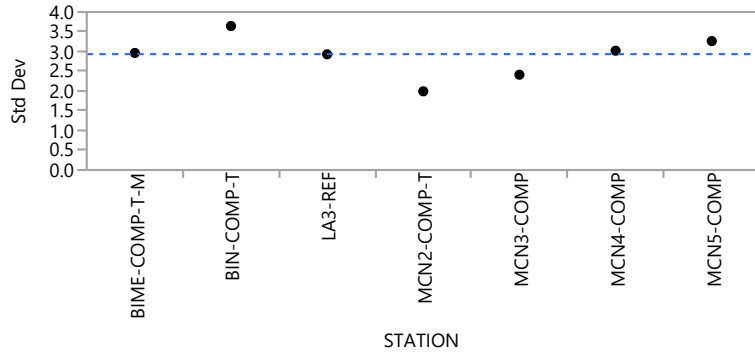
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
3.7201	6	0.7145

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB126**

**Tests that the Variances are Equal**



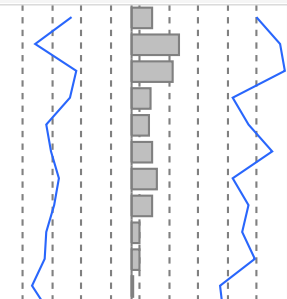
Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	2.963859	2.469685	2.354504
BIN-COMP-T	5	3.644897	2.703506	2.698562
LA3-REF	5	2.929583	2.253158	1.928350
MCN2-COMP-T	5	1.991744	1.480090	1.316668
MCN3-COMP	5	2.412379	1.792958	1.684608
MCN4-COMP	5	3.019457	2.572000	2.323220
MCN5-COMP	5	3.263608	2.668333	2.495708

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	0.4443	6	28	0.8427
Brown-Forsythe	0.3112	6	28	0.9257
Levene	0.5885	6	28	0.7366
Bartlett	0.2671	6	.	0.9524

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*		Alpha		Score Mean		Hodges-Lehmann		Lower CL		Upper CL	
Level	- Level	Difference	Std Err Dif	Z	p-Value	Lehmann	Lower CL	Upper CL			
MCN5-COMP	MCN2-COMP-T	2.00000	1.914854	1.04447	0.2963	1.24286	-3.66470	7.514190			
BIN-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	2.88831	-5.87829	8.956730			
LA3-REF	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	2.53014	-3.43265	9.253130			
MCN3-COMP	MCN2-COMP-T	1.60000	1.914854	0.83557	0.4034	1.14286	-3.76470	6.120190			
MCN4-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.04196	-5.18703	7.102530			
MCN5-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.24532	-4.97634	8.496530			
MCN4-COMP	MCN2-COMP-T	1.20000	1.914854	0.62668	0.5309	1.56860	-4.49197	6.120190			
MCN3-COMP	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	1.25195	-4.71084	7.102530			
MCN5-COMP	MCN3-COMP	0.40000	1.914854	0.20889	0.8345	0.52941	-5.23330	6.727300			
MCN5-COMP	MCN4-COMP	0.40000	1.914854	0.20889	0.8345	0.50640	-5.34484	7.454570			
MCN4-COMP	MCN3-COMP	0.20000	1.909043	0.10476	0.9166	0.12987	-6.06057	5.333300			

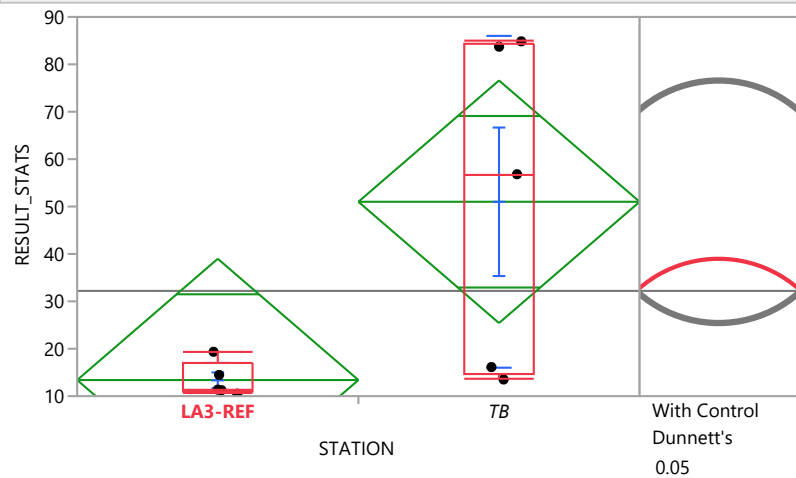


**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB126**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
MCN2-COMP-T	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.08900	-4.99656	5.533930
LA3-REF	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.68478	-6.18750	5.799120
MCN4-COMP	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-1.74330	-7.91477	6.246790
MCN4-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-1.14832	-8.21117	4.333300
MCN5-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-0.75660	-7.38390	5.727300
MCN5-COMP	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-1.23690	-7.08814	6.753190
MCN3-COMP	LA3-REF	-1.40000	1.909043	-0.73335	0.4633	-1.09091	-7.48390	4.333300
MCN3-COMP	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-1.85420	-7.18750	4.257190
MCN2-COMP-T	BIN-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-2.82764	-7.97439	2.913480
MCN2-COMP-T	LA3-REF	-2.80000	1.914854	-1.46225	0.1437	-1.78689	-8.27079	2.764700

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB128**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
LA3-REF	10.5263	10.5263	10.88815	11.3636	16.91425	19.3548	19.3548
TB	13.5135	13.5135	14.82125	56.8182	84.2847	84.8485	84.8485

**Oneway Anova**

**Summary of Fit**

Rsquare	0.417962
Adj Rsquare	0.345208
Root Mean Square Error	24.81203
Mean of Response	32.19985
Observations (or Sum Wgts)	10

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB128**

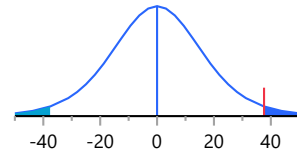
**Oneway Anova**

**t Test**

TB-LA3-REF

Assuming equal variances

Difference	37.6123	t Ratio	2.396835
Std Err Dif	15.6925	DF	8
Upper CL Dif	73.7993	Prob >  t	0.0434*
Lower CL Dif	1.4254	Prob > t	0.0217*
Confidence	0.95	Prob < t	0.9783



**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	1	3536.7203	3536.72	5.7448	0.0434*
Error	8	4925.0937	615.64		
C. Total	9	8461.8140			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
LA3-REF	5	13.3937	11.096	-12.19	38.982
TB	5	51.0060	11.096	25.42	76.594

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

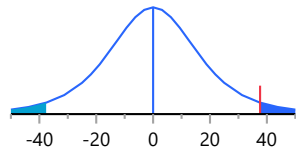
Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
LA3-REF	5	13.3937	3.6620	1.638	8.8468	17.941
TB	5	51.0060	34.8979	15.607	7.6746	94.337

**t Test**

TB-LA3-REF

Assuming unequal variances

Difference	37.612	t Ratio	2.396835
Std Err Dif	15.693	DF	4.088078
Upper CL Dif	80.814	Prob >  t	0.0732
Lower CL Dif	-5.589	Prob > t	0.0366*
Confidence	0.95	Prob < t	0.9634



**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.30600	0.05

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB128**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	1.425	0.0434*
LA3-REF	-36.2	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
LA3-REF	5	18.000	27.500	3.60000	-1.880
TB	5	37.000	27.500	7.40000	1.880

**2-Sample Test, Normal Approximation**

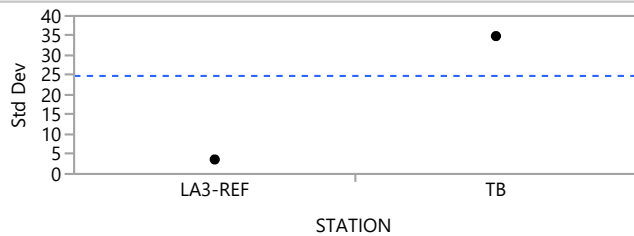
S	Z	Prob> Z
37	1.88004	0.0601

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
3.9382	1	0.0472*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif	
			to Mean	to Median
LA3-REF	5	3.66196	2.81646	2.41044
TB	5	34.89790	28.94782	27.78538

Test	F Ratio	DFNum	DFDen	p-Value
O'Brien[.5]	11.6749	1	8	0.0091*
Brown-Forsythe	10.5089	1	8	0.0118*
Levene	19.6347	1	8	0.0022*
Bartlett	11.1803	1	.	0.0008*
F Test 2-sided	90.8178	4	4	0.0007*

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB128**

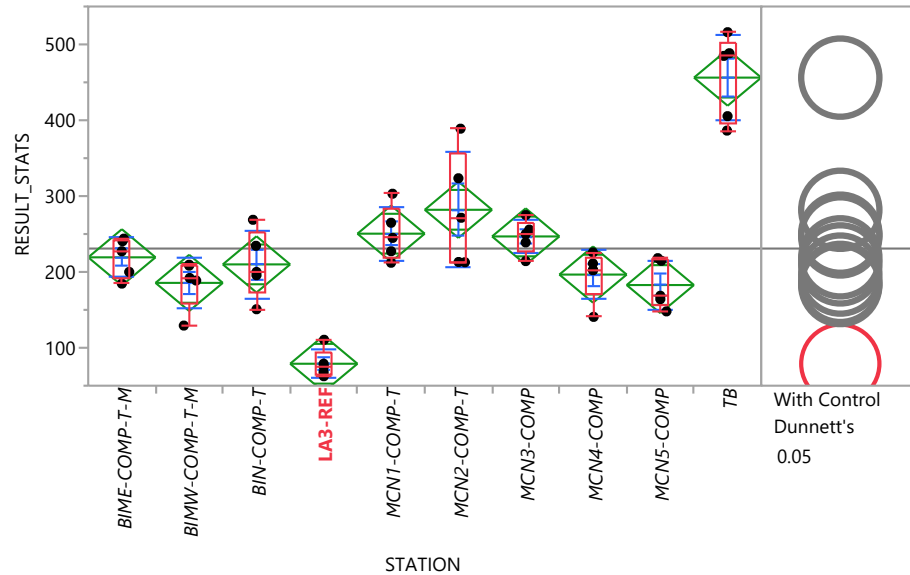
**Tests that the Variances are Equal**

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

<b>q*</b>		<b>Alpha</b>							
1.95996		0.05							
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
TB	LA3-REF	3.600000	1.914854	1.880039	0.0601	45.45460	-3.22580	73.59850	

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB132/153**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	184.615	184.615	192.3075	227.273	242.2215	243.902	243.902
BIMW-COMP-T-M	129.268	129.268	158.9735	192	208.9285	209.524	209.524
BIN-COMP-T	150.82	150.82	173.236	200	251.6165	268.75	268.75
LA3-REF	62.5	62.5	65.12095	75	94.7367	110.526	110.526
MCN1-COMP-T	212.121	212.121	219.697	244.898	283.995	303.125	303.125
MCN2-COMP-T	212.766	212.766	212.9405	271.429	356.209	388.889	388.889
MCN3-COMP	214.286	214.286	226.5875	250	265.407	275	275
MCN4-COMP	140.741	140.741	171.507	202.778	218.4125	225.714	225.714
MCN5-COMP	148	148	156.0755	168.571	216.444	218.182	218.182
TB	386.364	386.364	395.8845	484.848	502.2505	516.129	516.129



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB132/153**

**Oneway Anova**

**Summary of Fit**

Rsquare	0.860824
Adj Rsquare	0.829509
Root Mean Square Error	41.01429
Mean of Response	230.838
Observations (or Sum Wgts)	50

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	9	416177.91	46242.0	27.4895	<.0001*
Error	40	67286.86	1682.2		
C. Total	49	483464.78			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	219.266	18.342	182.20	256.34
BIMW-COMP-T-M	5	185.561	18.342	148.49	222.63
BIN-COMP-T	5	209.941	18.342	172.87	247.01
LA3-REF	5	78.943	18.342	41.87	116.01
MCN1-COMP-T	5	250.456	18.342	213.39	287.53
MCN2-COMP-T	5	281.946	18.342	244.87	319.02
MCN3-COMP	5	246.798	18.342	209.73	283.87
MCN4-COMP	5	196.523	18.342	159.45	233.59
MCN5-COMP	5	182.722	18.342	145.65	219.79
TB	5	456.224	18.342	419.15	493.29

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	219.266	25.9593	11.609	187.03	251.50
BIMW-COMP-T-M	5	185.561	32.8362	14.685	144.79	226.33
BIN-COMP-T	5	209.941	44.3258	19.823	154.90	264.98
LA3-REF	5	78.943	18.7675	8.393	55.64	102.25
MCN1-COMP-T	5	250.456	35.4244	15.842	206.47	294.44
MCN2-COMP-T	5	281.946	75.4986	33.764	188.20	375.69
MCN3-COMP	5	246.798	22.3969	10.016	218.99	274.61
MCN4-COMP	5	196.523	32.5912	14.575	156.06	236.99
MCN5-COMP	5	182.722	31.7456	14.197	143.30	222.14
TB	5	456.224	56.7988	25.401	385.70	526.75

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB132/153**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**Confidence Quantile**

d	Alpha
2.81175	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	304.3	<.0001*
MCN2-COMP-T	130.1	<.0001*
MCN1-COMP-T	98.58	<.0001*
MCN3-COMP	94.92	<.0001*
BIME-COMP-T-M	67.39	<.0001*
BIN-COMP-T	58.06	<.0001*
MCN4-COMP	44.64	0.0004*
BIMW-COMP-T-M	33.68	0.0015*
MCN5-COMP	30.84	0.0021*
LA3-REF	-72.9	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	128.000	127.500	25.6000	0.000
BIMW-COMP-T-M	5	74.000	127.500	14.8000	-1.714
BIN-COMP-T	5	112.500	127.500	22.5000	-0.469
LA3-REF	5	15.000	127.500	3.0000	-3.622
MCN1-COMP-T	5	171.500	127.500	34.3000	1.407
MCN2-COMP-T	5	180.000	127.500	36.0000	1.682
MCN3-COMP	5	176.000	127.500	35.2000	1.552
MCN4-COMP	5	95.000	127.500	19.0000	-1.035
MCN5-COMP	5	84.000	127.500	16.8000	-1.391
TB	5	239.000	127.500	47.8000	3.590

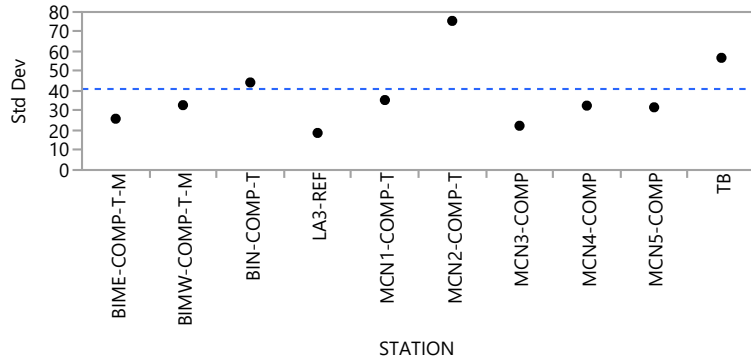
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
35.9272	9	<.0001*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB132/153**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	25.95930	21.56696	19.96560
BIMW-COMP-T-M	5	32.83624	22.51712	19.98200
BIN-COMP-T	5	44.32578	33.34040	31.35220
LA3-REF	5	18.76746	12.63491	11.84630
MCN1-COMP-T	5	35.42442	26.83088	25.71920
MCN2-COMP-T	5	75.49857	59.41072	57.30740
MCN3-COMP	5	22.39685	16.16824	15.52780
MCN4-COMP	5	32.59119	22.31296	18.76220
MCN5-COMP	5	31.74562	26.97760	24.14740
TB	5	56.79883	48.27128	42.54640

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	2.0792	9	40	0.0550
Brown-Forsythe	1.2638	9	40	0.2862
Levene	2.6807	9	40	0.0154*
Bartlett	1.3726	9	.	0.1941

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

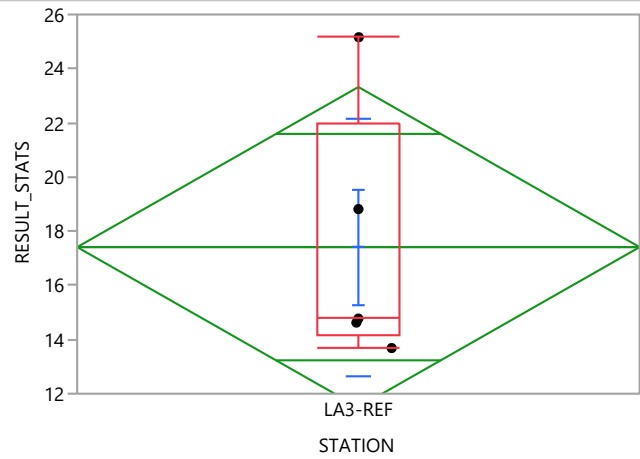
q*		Alpha								
1.95996		0.05								
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL		
MCN1-COMP-T	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	56.219	3.788	135.597		
MCN1-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	165.951	116.747	235.383		
MCN2-COMP-T	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	83.498	3.591	200.210		
MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	196.429	102.589	321.147		
MCN3-COMP	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	58.000	5.953	126.546		
MCN3-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	171.147	128.363	207.258		
MCN4-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	127.778	61.794	157.972		

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB132/153**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean				Hodges-				
		Difference	Std Err Dif	Z	p-Value	Lehmann	Lower CL	Upper CL		
MCN5-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	100.829	53.625	152.206		
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	244.470	145.823	316.129		
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	278.848	178.031	359.104		
TB	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	250.365	136.655	337.552		
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	405.603	294.879	448.387		
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	213.004	102.280	288.856		
TB	MCN3-COMP	4.80000	1.914854	2.50672	0.0122*	229.034	130.405	277.240		
TB	MCN4-COMP	4.80000	1.914854	2.50672	0.0122*	273.737	175.253	347.631		
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	270.190	171.658	351.978		
TB	MCN2-COMP-T	4.40000	1.914854	2.29783	0.0216*	173.598	16.516	303.014		
MCN2-COMP-T	BIN-COMP-T	3.20000	1.914854	1.67115	0.0947	62.295	-55.635	193.237		
MCN3-COMP	BIME-COMP-T-M	2.80000	1.914854	1.46225	0.1437	28.541	-26.255	75.000		
MCN3-COMP	BIN-COMP-T	2.80000	1.914854	1.46225	0.1437	40.517	-29.861	104.994		
MCN1-COMP-T	BIME-COMP-T-M	2.60000	1.909043	1.36194	0.1732	27.273	-28.420	103.125		
MCN1-COMP-T	BIN-COMP-T	2.40000	1.914854	1.25336	0.2101	34.375	-41.477	114.045		
MCN2-COMP-T	BIME-COMP-T-M	2.40000	1.914854	1.25336	0.2101	44.156	-30.787	188.889		
BIN-COMP-T	BIMW-COMP-T-M	1.60000	1.914854	0.83557	0.4034	21.552	-57.513	105.215		
MCN4-COMP	BIMW-COMP-T-M	1.60000	1.914854	0.83557	0.4034	11.473	-67.592	81.843		
MCN2-COMP-T	MCN1-COMP-T	1.20000	1.914854	0.62668	0.5309	20.404	-90.010	161.616		
MCN3-COMP	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	2.165	-64.236	47.727		
MCN4-COMP	BIN-COMP-T	0.00000	1.914854	0.00000	1.0000	-8.769	-93.742	60.291		
MCN5-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	5.182	-60.333	85.438		
MCN3-COMP	MCN2-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-21.429	-150.000	61.885		
MCN5-COMP	MCN4-COMP	-0.40000	1.914854	-0.20889	0.8345	-11.008	-63.111	73.965		
BIN-COMP-T	BIME-COMP-T-M	-0.60000	1.909043	-0.31429	0.7533	-6.058	-89.721	68.750		
MCN4-COMP	BIME-COMP-T-M	-1.60000	1.914854	-0.83557	0.4034	-24.495	-99.800	26.496		
MCN5-COMP	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-31.429	-104.599	63.886		
BIMW-COMP-T-M	BIME-COMP-T-M	-2.40000	1.914854	-1.25336	0.2101	-34.378	-111.273	23.718		
MCN5-COMP	BIME-COMP-T-M	-3.20000	1.914854	-1.67115	0.0947	-31.429	-92.541	30.091		
MCN5-COMP	MCN2-COMP-T	-3.20000	1.914854	-1.67115	0.0947	-102.858	-224.738	5.067		
MCN4-COMP	MCN2-COMP-T	-4.00000	1.914854	-2.08893	0.0367*	-72.025	-186.616	12.599		
MCN5-COMP	MCN1-COMP-T	-4.00000	1.914854	-2.08893	0.0367*	-64.121	-138.974	2.585		
MCN5-COMP	MCN3-COMP	-4.00000	1.914854	-2.08893	0.0367*	-66.286	-110.849	0.420		
MCN4-COMP	MCN1-COMP-T	-4.40000	1.914854	-2.29783	0.0216*	-42.625	-124.124	-1.010		
MCN4-COMP	MCN3-COMP	-4.40000	1.914854	-2.29783	0.0216*	-47.222	-115.073	-3.175		
LA3-REF	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-137.500	-178.041	-89.474		
LA3-REF	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-117.000	-145.833	-50.321		
LA3-REF	BIN-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-127.910	-201.008	-71.873		

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB137**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
LA3-REF	13.6842	13.6842	14.1546	14.7727	21.98855	25.1613	25.1613

**Oneway Anova**

**Summary of Fit**

Rsquare	0
Adj Rsquare	0
Root Mean Square Error	4.760569
Mean of Response	17.4118
Observations (or Sum Wgts)	5

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	0	0.000000			
Error	4	90.652071	22.6630		
C. Total	4	90.652071			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
LA3-REF	5	17.4118	2.1290	11.501	23.323

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
LA3-REF	5	17.4118	4.76057	2.1290	11.501	23.323

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB137**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected	
			Score	Score Mean
LA3-REF	5	15.000	15.000	3.00000

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
0.0000	0	

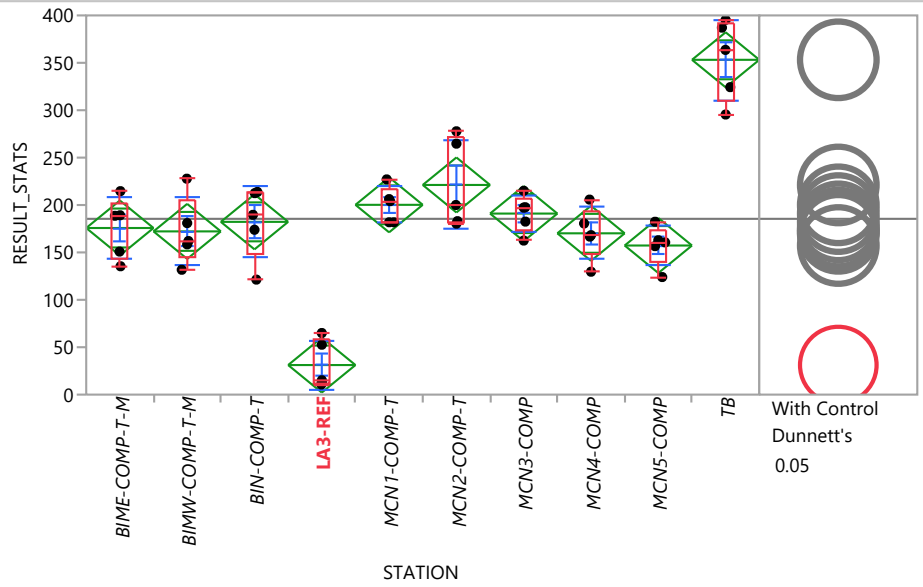
Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
-------	---------	-----------------------	-------------	---	---------	----------------	----------	----------

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB138/158**



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB138/158**

**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	135.385	135.385	143.147	188.636	201.9115	214.634	214.634
BIMW-COMP-T-M	131.707	131.707	145.099	162	204.365	227.778	227.778
BIN-COMP-T	121.311	121.311	147.612	189.655	213.1465	213.793	213.793
LA3-REF	10.6818	10.6818	11.5909	15.1613	58.8158	65	65
MCN1-COMP-T	181.818	181.818	181.818	204.082	216.6385	227.027	227.027
MCN2-COMP-T	180.328	180.328	181.6535	200	271.242	277.778	277.778
MCN3-COMP	162.5	162.5	172.5	197.222	206.337	215	215
MCN4-COMP	129.63	129.63	148.1485	168.182	193.135	205.714	205.714
MCN5-COMP	124	124	140.302	160.606	172.605	182.353	182.353
TB	295.455	295.455	309.8895	363.636	391.223	395.349	395.349

**Oneway Anova**

**Summary of Fit**

Rsquare	0.869039
Adj Rsquare	0.839573
Root Mean Square Error	32.11616
Mean of Response	185.4308
Observations (or Sum Wgts)	50

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	9	273781.60	30420.2	29.4927	<.0001*
Error	40	41257.90	1031.4		
C. Total	49	315039.50			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	175.751	14.363	146.72	204.78
BIMW-COMP-T-M	5	172.186	14.363	143.16	201.21
BIN-COMP-T	5	182.234	14.363	153.21	211.26
LA3-REF	5	31.195	14.363	2.17	60.22
MCN1-COMP-T	5	200.199	14.363	171.17	229.23
MCN2-COMP-T	5	221.158	14.363	192.13	250.19
MCN3-COMP	5	190.979	14.363	161.95	220.01
MCN4-COMP	5	170.150	14.363	141.12	199.18
MCN5-COMP	5	157.284	14.363	128.26	186.31
TB	5	353.172	14.363	324.14	382.20

Std Error uses a pooled estimate of error variance

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB138/158**

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	175.751	32.0353	14.327	136.0	215.53
BIMW-COMP-T-M	5	172.186	35.6972	15.964	127.9	216.51
BIN-COMP-T	5	182.234	37.9075	16.953	135.2	229.30
LA3-REF	5	31.195	25.6402	11.467	-0.6416	63.03
MCN1-COMP-T	5	200.199	19.0208	8.506	176.6	223.82
MCN2-COMP-T	5	221.158	46.5689	20.826	163.3	278.98
MCN3-COMP	5	190.979	19.6453	8.786	166.6	215.37
MCN4-COMP	5	170.150	27.5271	12.310	136.0	204.33
MCN5-COMP	5	157.284	21.0881	9.431	131.1	183.47
TB	5	353.172	42.4345	18.977	300.5	405.86

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	264.9	<.0001*
MCN2-COMP-T	132.9	<.0001*
MCN1-COMP-T	111.9	<.0001*
MCN3-COMP	102.7	<.0001*
BIN-COMP-T	93.93	<.0001*
BIME-COMP-T-M	87.44	<.0001*
BIMW-COMP-T-M	83.88	<.0001*
MCN4-COMP	81.84	<.0001*
MCN5-COMP	68.98	<.0001*
LA3-REF	-57.1	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	120.000	127.500	24.0000	-0.226
BIMW-COMP-T-M	5	103.000	127.500	20.6000	-0.776
BIN-COMP-T	5	134.000	127.500	26.8000	0.194
LA3-REF	5	15.000	127.500	3.0000	-3.622
MCN1-COMP-T	5	163.000	127.500	32.6000	1.132
MCN2-COMP-T	5	172.000	127.500	34.4000	1.423
MCN3-COMP	5	149.000	127.500	29.8000	0.679



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB138/158**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

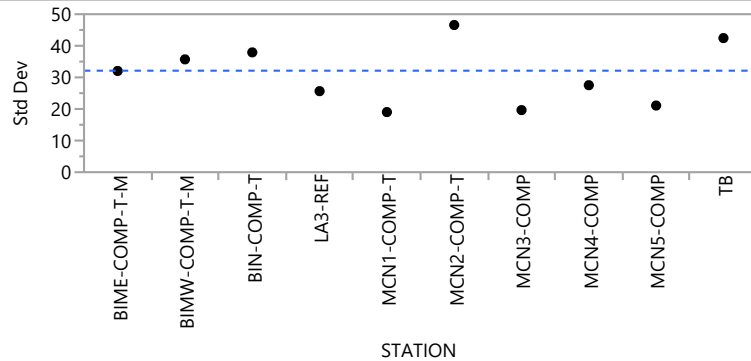
Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
MCN4-COMP	5	103.000	127.500	20.6000	-0.776
MCN5-COMP	5	76.000	127.500	15.2000	-1.649
TB	5	240.000	127.500	48.0000	3.622

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
31.0288	9	0.0003*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	32.03525	26.08288	23.50580
BIMW-COMP-T-M	5	35.69723	25.74352	23.70640
BIN-COMP-T	5	37.90753	27.69792	26.21380
LA3-REF	5	25.64020	22.09669	18.88996
MCN1-COMP-T	5	19.02075	14.70480	13.92820
MCN2-COMP-T	5	46.56887	40.06704	35.83540
MCN3-COMP	5	19.64531	14.78336	13.53480
MCN4-COMP	5	27.52707	18.38816	17.99460
MCN5-COMP	5	21.08812	13.58560	12.92120
TB	5	42.43454	34.62616	32.53340

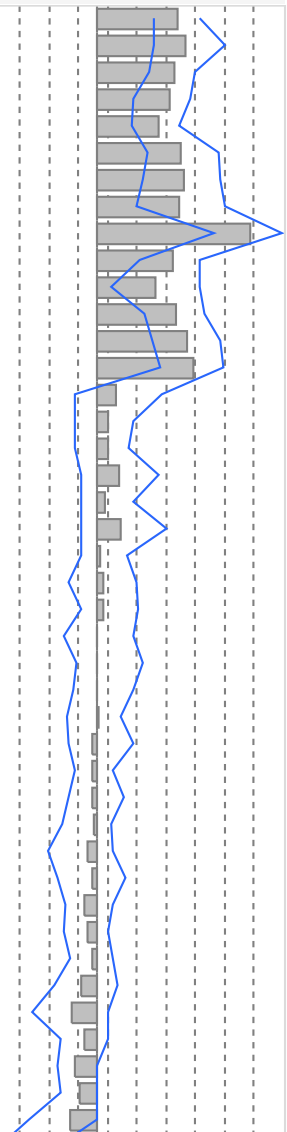
Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.1266	9	40	0.3672
Brown-Forsythe	0.6195	9	40	0.7732
Levene	1.6604	9	40	0.1313
Bartlett	0.7298	9	.	0.6820

Warning: Small sample sizes. Use Caution.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB138/158**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

		q*	Alpha								
		1.95996	0.05								
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL			
MCN1-COMP-T	LA3-REF	4.80000	1.909043	2.51435	0.0119*	169.318	116.818	214.527			
MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	184.839	117.979	265.278			
MCN3-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	162.368	109.868	202.500			
MCN4-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	151.506	76.998	193.214			
MCN5-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	129.721	71.368	169.853			
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	175.000	106.266	251.712			
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	182.684	96.546	255.390			
TB	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	174.144	82.955	265.786			
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	322.097	242.823	382.849			
TB	MCN1-COMP-T	4.80000	1.909043	2.51435	0.0119*	159.554	89.205	213.531			
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	124.324	30.749	212.370			
TB	MCN3-COMP	4.80000	1.914854	2.50672	0.0122*	166.414	97.781	224.597			
TB	MCN4-COMP	4.80000	1.914854	2.50672	0.0122*	189.635	114.899	257.467			
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	203.030	132.598	263.097			
MCN2-COMP-T	BIMW-COMP-T-M	3.20000	1.914854	1.67115	0.0947	41.509	-44.799	132.999			
MCN1-COMP-T	BIMW-COMP-T-M	2.80000	1.909043	1.46670	0.1425	25.298	-45.960	74.543			
MCN3-COMP	BIMW-COMP-T-M	2.40000	1.914854	1.25336	0.2101	24.009	-45.278	65.967			
MCN2-COMP-T	BIME-COMP-T-M	2.00000	1.914854	1.04447	0.2963	47.594	-31.655	129.321			
MCN1-COMP-T	BIME-COMP-T-M	1.60000	1.909043	0.83812	0.4020	17.614	-32.816	76.118			
MCN2-COMP-T	BIN-COMP-T	1.60000	1.914854	0.83557	0.4034	50.913	-32.172	143.395			
MCN3-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	9.038	-32.134	64.091			
BIN-COMP-T	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	15.422	-59.641	80.793			
MCN1-COMP-T	BIN-COMP-T	0.80000	1.909043	0.41906	0.6752	13.234	-31.975	84.939			
BIN-COMP-T	BIME-COMP-T-M	0.40000	1.914854	0.20889	0.8345	1.019	-67.878	77.115			
MCN2-COMP-T	MCN1-COMP-T	0.40000	1.909043	0.20953	0.8340	1.161	-44.048	95.960			
MCN3-COMP	BIN-COMP-T	0.40000	1.914854	0.20889	0.8345	2.500	-50.000	76.363			
MCN4-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	4.667	-61.111	48.849			
BIMW-COMP-T-M	BIME-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-7.684	-57.482	76.869			
MCN3-COMP	MCN1-COMP-T	-0.80000	1.909043	-0.41906	0.6752	-8.576	-44.527	33.182			
MCN4-COMP	BIME-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-8.633	-59.559	54.805			
MCN5-COMP	BIMW-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-5.396	-71.174	31.150			
MCN3-COMP	MCN2-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-17.828	-102.206	32.021			
MCN4-COMP	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-9.099	-82.870	59.245			
MCN5-COMP	BIME-COMP-T-M	-1.60000	1.914854	-0.83557	0.4034	-26.332	-65.189	31.444			
MCN4-COMP	MCN3-COMP	-2.00000	1.914854	-1.04447	0.2963	-17.118	-68.044	23.214			
MCN5-COMP	MCN4-COMP	-2.00000	1.914854	-1.04447	0.2963	-10.063	-56.556	33.227			
MCN5-COMP	BIN-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-30.147	-88.500	41.546			
MCN4-COMP	MCN2-COMP-T	-3.20000	1.914854	-1.67115	0.0947	-50.698	-135.076	22.735			
MCN4-COMP	MCN1-COMP-T	-3.60000	1.909043	-1.88576	0.0593	-25.694	-76.620	23.896			
MCN5-COMP	MCN1-COMP-T	-4.00000	1.909043	-2.09529	0.0361*	-43.476	-82.250	0.535			
MCN5-COMP	MCN3-COMP	-4.00000	1.914854	-2.08893	0.0367*	-34.817	-73.674	0.357			
MCN5-COMP	MCN2-COMP-T	-4.40000	1.914854	-2.29783	0.0216*	-56.328	-140.706	-0.626			

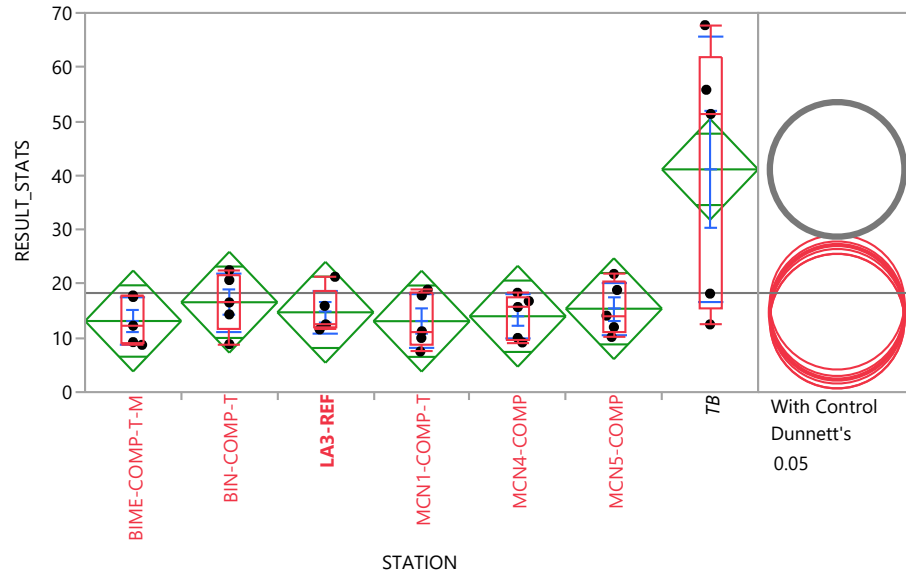


**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB138/158**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
LA3-REF	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-138.409	-202.134	-82.753
LA3-REF	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-145.991	-215.278	-79.075
LA3-REF	BIN-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-159.868	-201.818	-68.679

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB141**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	8.72727	8.72727	8.97902	12.2727	17.6994	17.8378	17.8378
BIN-COMP-T	8.85246	8.85246	11.60013	16.5517	21.59485	22.5	22.5
LA3-REF	11.5789	11.5789	11.97695	12.5	18.6057	21.2903	21.2903
MCN1-COMP-T	7.5	7.5	8.75	11.2245	18.37205	18.9063	18.9063
MCN4-COMP	9.16667	9.16667	9.583335	15.7143	17.56945	18.3333	18.3333
MCN5-COMP	10.1887	10.1887	11.09435	14.1176	20.33765	21.8182	21.8182
TB	12.5	12.5	15.3409	51.3514	61.77795	67.7419	67.7419

**Oneway Anova**

**Summary of Fit**

Rsquare	0.515798
Adj Rsquare	0.412041
Root Mean Square Error	10.17059
Mean of Response	18.29416
Observations (or Sum Wgts)	35

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB141**

**Oneway Anova**

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	6	3085.3466	514.224	4.9712	0.0014*
Error	28	2896.3477	103.441		
C. Total	34	5981.6942			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	13.1259	4.5484	3.809	22.443
BIN-COMP-T	5	16.5883	4.5484	7.271	25.905
LA3-REF	5	14.7331	4.5484	5.416	24.050
MCN1-COMP-T	5	13.0937	4.5484	3.777	22.411
MCN4-COMP	5	14.0040	4.5484	4.687	23.321
MCN5-COMP	5	15.3963	4.5484	6.079	24.713
TB	5	41.1178	4.5484	31.801	50.435

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	13.1259	4.3909	1.964	7.674	18.578
BIN-COMP-T	5	16.5883	5.3999	2.415	9.884	23.293
LA3-REF	5	14.7331	4.0282	1.801	9.731	19.735
MCN1-COMP-T	5	13.0937	5.0162	2.243	6.865	19.322
MCN4-COMP	5	14.0040	4.1518	1.857	8.849	19.159
MCN5-COMP	5	15.3963	4.8349	2.162	9.393	21.400
TB	5	41.1178	24.3649	10.896	10.865	71.371

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.73128	0.05

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB141**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	8.816	0.0017*
BIN-COMP-T	-15.7	0.9995
MCN5-COMP	-16.9	1.0000
LA3-REF	-17.6	1.0000
MCN4-COMP	-16.8	1.0000
BIME-COMP-T-M	-16	0.9998
MCN1-COMP-T	-15.9	0.9998

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

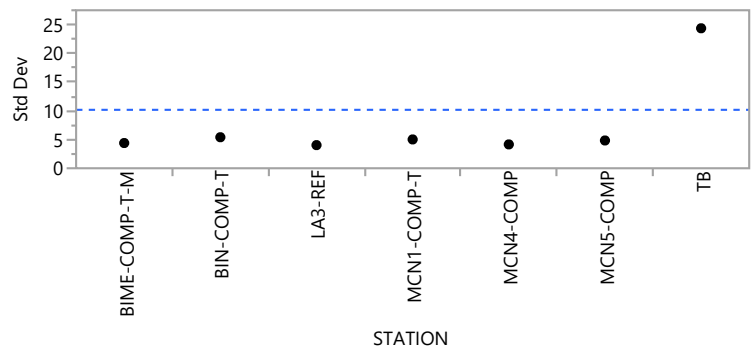
Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	64.500	90.000	12.9000	-1.179
BIN-COMP-T	5	101.000	90.000	20.2000	0.495
LA3-REF	5	86.500	90.000	17.3000	-0.141
MCN1-COMP-T	5	68.000	90.000	13.6000	-1.014
MCN4-COMP	5	75.500	90.000	15.1000	-0.660
MCN5-COMP	5	93.000	90.000	18.6000	0.118
TB	5	141.500	90.000	28.3000	2.405

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
7.8871	6	0.2465

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB141**

**Tests that the Variances are Equal**

Level	Count	Std Dev	MeanAbsDif	MeanAbsDif
			to Mean	to Median
BIME-COMP-T-M	5	4.39090	3.65879	3.48815
BIN-COMP-T	5	5.39986	4.00521	3.99789
LA3-REF	5	4.02817	3.09811	2.65150
MCN1-COMP-T	5	5.01615	4.22266	3.84882
MCN4-COMP	5	4.15177	3.53651	3.19445
MCN5-COMP	5	4.83495	3.95306	3.69732
TB	5	24.36486	20.62154	18.57482

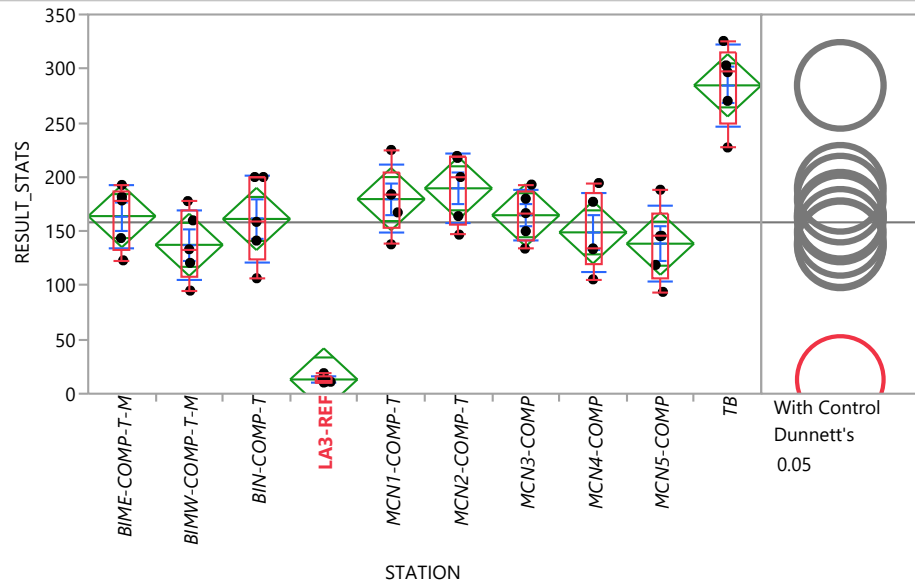
Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[5]	7.9804	6	28	<.0001*
Brown-Forsythe	3.2887	6	28	0.0141*
Levene	16.5571	6	28	<.0001*
Bartlett	4.7138	6	.	<.0001*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

		q*	Alpha						
		1.95996	0.05						
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
TB	BIME-COMP-T-M	4.00000	1.914854	2.08893	0.0367*	37.9762	-5.0610	58.51113	
TB	MCN1-COMP-T	3.60000	1.914854	1.88004	0.0601	36.9077	-5.3378	57.74190	
TB	LA3-REF	3.40000	1.909043	1.78100	0.0749	35.4303	-3.4211	55.36690	
TB	MCN4-COMP	3.20000	1.914854	1.67115	0.0947	35.6371	-4.3056	57.74190	
TB	MCN5-COMP	2.80000	1.914854	1.46225	0.1437	33.9958	-6.3571	55.74190	
TB	BIN-COMP-T	2.40000	1.914854	1.25336	0.2101	33.3140	-8.1897	53.39410	
BIN-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	4.2790	-8.7085	13.26923	
MCN5-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.8449	-7.3723	12.58743	
MCN5-COMP	MCN1-COMP-T	1.60000	1.914854	0.83557	0.4034	2.6887	-7.6491	11.81820	
LA3-REF	BIME-COMP-T-M	1.20000	1.914854	0.62668	0.5309	2.8516	-5.9821	12.05953	
MCN5-COMP	MCN4-COMP	1.20000	1.914854	0.62668	0.5309	2.0000	-6.6169	11.81820	
MCN4-COMP	BIME-COMP-T-M	0.40000	1.914854	0.20889	0.8345	0.4955	-8.3943	9.10253	
MCN1-COMP-T	BIME-COMP-T-M	0.20000	1.909043	0.10476	0.9166	0.2768	-10.0610	9.67553	
MCN4-COMP	MCN1-COMP-T	0.00000	1.909043	0.00000	1.0000	0.0000	-8.9063	9.30560	
MCN5-COMP	LA3-REF	0.00000	1.914854	0.00000	1.0000	0.4211	-9.2903	9.44320	
MCN4-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-1.5789	-11.2903	5.95830	
MCN4-COMP	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-3.8841	-12.5000	7.95314	
MCN5-COMP	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-1.8326	-10.5010	10.00464	
LA3-REF	BIN-COMP-T	-1.20000	1.914854	-0.62668	0.5309	-1.9728	-10.1250	7.06864	
MCN1-COMP-T	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-3.5937	-13.1897	8.98534	
MCN1-COMP-T	LA3-REF	-1.60000	1.914854	-0.83557	0.4034	-2.3750	-11.2903	6.53130	

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB149**



Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	123.077	123.077	133.3565	178.378	187.2505	192.683	192.683
BIMW-COMP-T-M	95.1219	95.1219	107.9385	133.333	168.889	177.778	177.778
BIN-COMP-T	106.557	106.557	123.9305	158.621	200	200	200
LA3-REF	10.3158	10.3158	10.6704	11.1364	16.57595	18.9677	18.9677
MCN1-COMP-T	137.879	137.879	152.613	183.784	204.5455	225	225
MCN2-COMP-T	146.809	146.809	155.3715	200	218.5455	219.444	219.444
MCN3-COMP	133.929	133.929	141.9645	166.667	186.5115	193.023	193.023
MCN4-COMP	105.556	105.556	119.4445	134.091	185.7935	194.444	194.444
MCN5-COMP	94	94	106.434	145.455	166.9745	188.235	188.235
TB	227.273	227.273	248.7715	296.774	314.3055	325.581	325.581

**Oneway Anova**

**Summary of Fit**

Rsquare	0.830066
Adj Rsquare	0.791831
Root Mean Square Error	31.77581
Mean of Response	158.1602
Observations (or Sum Wgts)	50

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB149**

**Oneway Anova**

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	9	197281.20	21920.1	21.7095	<.0001*
Error	40	40388.08	1009.7		
C. Total	49	237669.28			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	163.918	14.211	135.2	192.64
BIMW-COMP-T-M	5	137.398	14.211	108.7	166.12
BIN-COMP-T	5	161.296	14.211	132.6	190.02
LA3-REF	5	13.126	14.211	-15.6	41.85
MCN1-COMP-T	5	179.620	14.211	150.9	208.34
MCN2-COMP-T	5	189.567	14.211	160.8	218.29
MCN3-COMP	5	164.724	14.211	136.0	193.44
MCN4-COMP	5	148.913	14.211	120.2	177.63
MCN5-COMP	5	138.454	14.211	109.7	167.18
TB	5	284.586	14.211	255.9	313.31

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	163.918	29.3099	13.108	127.53	200.31
BIMW-COMP-T-M	5	137.398	32.4891	14.530	97.06	177.74
BIN-COMP-T	5	161.296	39.9975	17.887	111.63	210.96
LA3-REF	5	13.126	3.5887	1.605	8.67	17.58
MCN1-COMP-T	5	179.620	31.5817	14.124	140.41	218.83
MCN2-COMP-T	5	189.567	32.6928	14.621	148.97	230.16
MCN3-COMP	5	164.724	23.4686	10.495	135.58	193.86
MCN4-COMP	5	148.913	36.0980	16.144	104.09	193.73
MCN5-COMP	5	138.454	35.1413	15.716	94.82	182.09
TB	5	284.586	37.6133	16.821	237.88	331.29

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB149**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	215	<.0001*
MCN2-COMP-T	119.9	<.0001*
MCN1-COMP-T	110	<.0001*
MCN3-COMP	95.09	<.0001*
BIME-COMP-T-M	94.29	<.0001*
BIN-COMP-T	91.66	<.0001*
MCN4-COMP	79.28	<.0001*
MCN5-COMP	68.82	<.0001*
BIMW-COMP-T-M	67.76	<.0001*
LA3-REF	-56.5	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	132.000	127.500	26.4000	0.129
BIMW-COMP-T-M	5	86.500	127.500	17.3000	-1.310
BIN-COMP-T	5	133.000	127.500	26.6000	0.162
LA3-REF	5	15.000	127.500	3.0000	-3.622
MCN1-COMP-T	5	159.000	127.500	31.8000	1.003
MCN2-COMP-T	5	176.000	127.500	35.2000	1.552
MCN3-COMP	5	135.000	127.500	27.0000	0.226
MCN4-COMP	5	105.500	127.500	21.1000	-0.695
MCN5-COMP	5	93.000	127.500	18.6000	-1.100
TB	5	240.000	127.500	48.0000	3.622

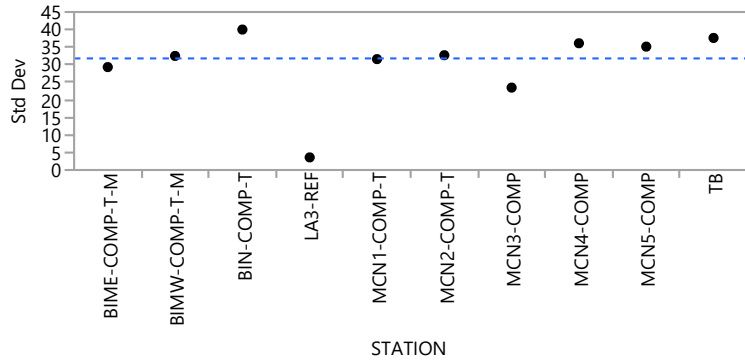
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
30.2369	9	0.0004*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB149**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	29.30987	24.44952	21.55760
BIMW-COMP-T-M	5	32.48914	25.19314	24.38022
BIN-COMP-T	5	39.99748	30.96288	30.42780
LA3-REF	5	3.58870	2.76010	2.36222
MCN1-COMP-T	5	31.58168	21.60576	20.77300
MCN2-COMP-T	5	32.69276	27.35624	25.26960
MCN3-COMP	5	23.46856	18.20744	17.81880
MCN4-COMP	5	36.09800	29.50408	26.53960
MCN5-COMP	5	35.14128	25.61632	24.21620
TB	5	37.61332	28.65128	26.21360

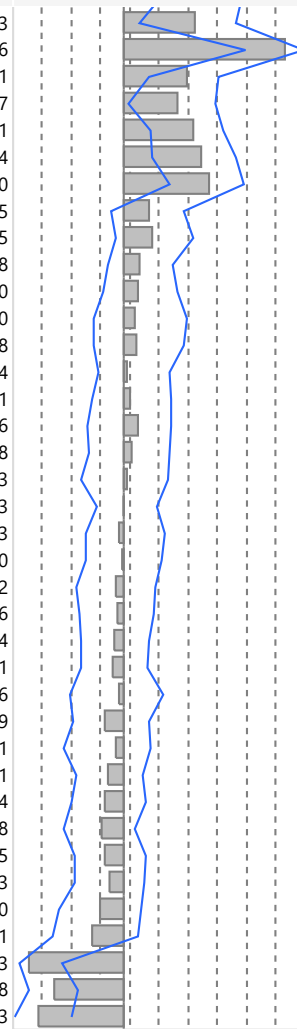
Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	0.6209	9	40	0.7721
Brown-Forsythe	0.6789	9	40	0.7231
Levene	1.3506	9	40	0.2428
Bartlett	1.5416	9	.	0.1269

Warning: Small sample sizes. Use Caution.

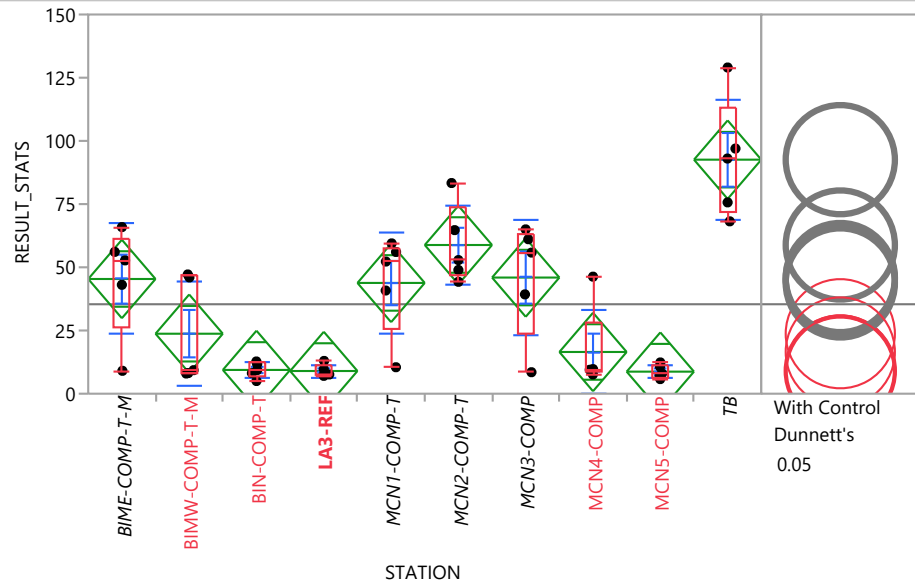
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*		Alpha							
1.95996		0.05							
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
MCN1-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	169.600	123.695	213.975	
MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	188.864	132.625	208.419	
MCN3-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	155.531	119.745	181.998	
MCN4-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	123.017	91.372	183.419	
MCN5-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	131.271	79.816	177.210	
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	121.212	45.455	181.945	
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	147.803	67.273	207.908	

Oneway Analysis of RESULT_STATS By STATION CHEM_OUT=PCB149								
Nonparametric Comparisons For Each Pair Using Wilcoxon Method								
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	BIN-COMP-T	4.80000	1.909043	2.51435	0.0119*	125.581	27.273	196.473
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	284.062	213.089	314.556
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	112.683	43.182	165.151
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	96.774	9.626	161.647
TB	MCN3-COMP	4.80000	1.914854	2.50672	0.0122*	123.030	47.273	175.581
TB	MCN4-COMP	4.80000	1.914854	2.50672	0.0122*	136.179	50.130	197.474
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	151.319	81.559	209.030
MCN1-COMP-T	BIMW-COMP-T-M	3.60000	1.914854	1.88004	0.0601	46.592	-22.121	104.245
MCN2-COMP-T	BIMW-COMP-T-M	3.60000	1.914854	1.88004	0.0601	51.687	-13.844	122.525
MCN3-COMP	BIMW-COMP-T-M	2.80000	1.914854	1.46225	0.1437	29.245	-27.778	84.878
MCN2-COMP-T	BIME-COMP-T-M	2.40000	1.914854	1.25336	0.2101	24.964	-35.009	94.570
MCN2-COMP-T	BIN-COMP-T	2.40000	1.891501	1.26883	0.2045	19.444	-53.191	111.090
BIN-COMP-T	BIMW-COMP-T-M	1.60000	1.909043	0.83812	0.4020	22.222	-53.443	104.878
MCN1-COMP-T	BIME-COMP-T-M	1.20000	1.914854	0.62668	0.5309	5.713	-43.939	81.364
MCN4-COMP	BIMW-COMP-T-M	1.00000	1.909043	0.52382	0.6004	12.578	-54.444	82.021
MCN1-COMP-T	BIN-COMP-T	0.80000	1.909043	0.41906	0.6752	25.000	-62.121	83.696
MCN2-COMP-T	MCN1-COMP-T	0.40000	1.914854	0.20889	0.8345	15.909	-61.066	79.768
BIN-COMP-T	BIME-COMP-T-M	0.00000	1.909043	0.00000	1.0000	7.317	-75.261	76.923
MCN3-COMP	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.340	-47.889	56.923
MCN3-COMP	BIN-COMP-T	0.00000	1.909043	0.00000	1.0000	-6.977	-66.071	73.443
MCN5-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-1.122	-66.000	67.480
MCN5-COMP	MCN4-COMP	-0.40000	1.914854	-0.20889	0.8345	-11.556	-83.143	54.902
MCN4-COMP	BIME-COMP-T-M	-1.20000	1.914854	-0.62668	0.5309	-10.303	-76.262	54.066
MCN4-COMP	MCN3-COMP	-1.20000	1.914854	-0.62668	0.5309	-15.909	-74.444	44.444
MCN3-COMP	MCN1-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-17.117	-75.000	42.121
MCN4-COMP	BIN-COMP-T	-1.60000	1.909043	-0.83812	0.4020	-7.971	-94.444	70.586
MCN5-COMP	BIME-COMP-T-M	-1.60000	1.914854	-0.83557	0.4034	-32.664	-87.818	44.599
MCN5-COMP	BIN-COMP-T	-1.60000	1.909043	-0.83812	0.4020	-13.166	-106.000	46.931
MCN3-COMP	MCN2-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-26.421	-83.718	33.191
MCN4-COMP	MCN1-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-33.256	-91.667	39.264
MCN5-COMP	MCN1-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-38.377	-106.132	20.888
MCN5-COMP	MCN3-COMP	-2.40000	1.914854	-1.25336	0.2101	-31.132	-86.000	38.235
BIMW-COMP-T-M	BIME-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-22.881	-86.696	36.923
MCN4-COMP	MCN2-COMP-T	-3.20000	1.914854	-1.67115	0.0947	-40.504	-112.091	30.510
MCN5-COMP	MCN2-COMP-T	-4.00000	1.914854	-2.08893	0.0367*	-54.286	-123.647	24.301
LA3-REF	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-164.194	-181.658	-108.893
LA3-REF	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-122.197	-166.753	-80.938
LA3-REF	BIN-COMP-T	-4.80000	1.909043	-2.51435	0.0119*	-147.485	-189.684	-92.373



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB151**



Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	9.05405	9.05405	26.06548	52.7273	61.00335	65.9091	65.9091
BIMW-COMP-T-M	7.97619	7.97619	8.07346	9.30556	46.5849	47.1698	47.1698
BIN-COMP-T	5.01639	5.01639	6.57341	9.37931	12.23705	12.75	12.75
LA3-REF	7.05263	7.05263	7.295065	7.61364	11.33254	12.9677	12.9677
MCN1-COMP-T	10.4688	10.4688	25.64255	52.2727	57.76005	59.4595	59.4595
MCN2-COMP-T	44.2623	44.2623	46.59925	52.8571	74.0196	83.3333	83.3333
MCN3-COMP	8.5	8.5	23.89285	55.814	63.05555	65	65
MCN4-COMP	7.61364	7.61364	8.52904	9.44444	28.0053	46.2963	46.2963
MCN5-COMP	5.77358	5.77358	6.28679	8	11.52465	12.3636	12.3636
TB	68.1818	68.1818	71.92875	93.0233	113.0009	129.032	129.032

**Oneway Anova**

**Summary of Fit**

Rsquare	0.73894
Adj Rsquare	0.680202
Root Mean Square Error	17.17336
Mean of Response	35.38517
Observations (or Sum Wgts)	50

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB151**

**Oneway Anova**

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	9	33391.841	3710.20	12.5802	<.0001*
Error	40	11796.972	294.92		
C. Total	49	45188.813			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	45.3730	7.6802	29.85	60.90
BIMW-COMP-T-M	5	23.7245	7.6802	8.20	39.25
BIN-COMP-T	5	9.4000	7.6802	-6.12	24.92
LA3-REF	5	8.9738	7.6802	-6.55	24.50
MCN1-COMP-T	5	43.8156	7.6802	28.29	59.34
MCN2-COMP-T	5	58.8190	7.6802	43.30	74.34
MCN3-COMP	5	45.9422	7.6802	30.42	61.46
MCN4-COMP	5	16.5026	7.6802	0.98	32.02
MCN5-COMP	5	8.7246	7.6802	-6.80	24.25
TB	5	92.5765	7.6802	77.05	108.10

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	45.3730	21.8813	9.786	18.20	72.54
BIMW-COMP-T-M	5	23.7245	20.8789	9.337	-2.20	49.65
BIN-COMP-T	5	9.4000	3.0599	1.368	5.60	13.20
LA3-REF	5	8.9738	2.4535	1.097	5.93	12.02
MCN1-COMP-T	5	43.8156	19.9198	8.908	19.08	68.55
MCN2-COMP-T	5	58.8190	15.6582	7.003	39.38	78.26
MCN3-COMP	5	45.9422	23.1137	10.337	17.24	74.64
MCN4-COMP	5	16.5026	16.6763	7.458	-4.20	37.21
MCN5-COMP	5	8.7246	2.7398	1.225	5.32	12.13
TB	5	92.5765	23.6074	10.558	63.26	121.89

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB151****Means Comparisons****Comparisons with a control using Dunnett's Method****LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	53.06	<.0001*
MCN2-COMP-T	19.31	0.0004*
MCN3-COMP	6.429	0.0111*
BIME-COMP-T-M	5.86	0.0128*
MCN1-COMP-T	4.302	0.0187*
BIMW-COMP-T-M	-15.8	0.6821
MCN4-COMP	-23	0.9878
BIN-COMP-T	-30.1	1.0000
LA3-REF	-30.5	1.0000
MCN5-COMP	-30.3	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	159.000	127.500	31.8000	1.003
BIMW-COMP-T-M	5	95.000	127.500	19.0000	-1.035
BIN-COMP-T	5	72.000	127.500	14.4000	-1.779
LA3-REF	5	58.500	127.500	11.7000	-2.215
MCN1-COMP-T	5	159.000	127.500	31.8000	1.003
MCN2-COMP-T	5	187.000	127.500	37.4000	1.908
MCN3-COMP	5	159.000	127.500	31.8000	1.003
MCN4-COMP	5	89.500	127.500	17.9000	-1.213
MCN5-COMP	5	58.000	127.500	11.6000	-2.231
TB	5	238.000	127.500	47.6000	3.557

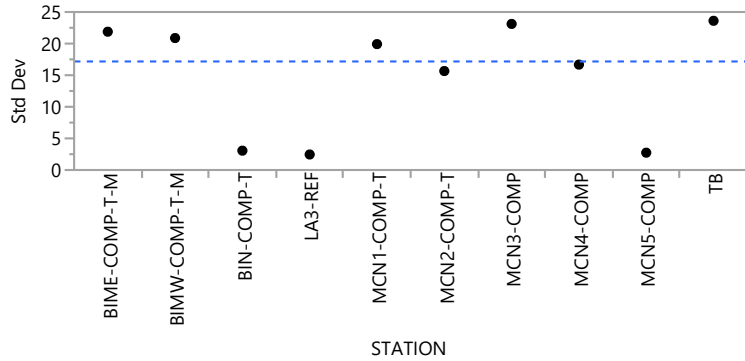
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
31.9080	9	0.0002*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB151**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	21.88134	15.44601	13.97515
BIMW-COMP-T-M	5	20.87891	18.28836	15.40458
BIN-COMP-T	5	3.05991	2.26960	2.26546
LA3-REF	5	2.45350	1.88701	1.61499
MCN1-COMP-T	5	19.91983	14.53842	12.84700
MCN2-COMP-T	5	15.65821	12.16051	10.96814
MCN3-COMP	5	23.11371	17.63945	15.66508
MCN4-COMP	5	16.67629	11.91747	7.79050
MCN5-COMP	5	2.73979	2.24006	2.09514
TB	5	23.60742	16.51820	16.42884

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	0.8587	9	40	0.5685
Brown-Forsythe	0.9184	9	40	0.5194
Levene	2.5689	9	40	0.0195*
Bartlett	3.6045	9	.	0.0002*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*		Alpha	Score Mean		Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	Box Plot
1.95996	0.05	Difference	Std Err Dif							
MCN2-COMP-T	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	43.9198	32.5382	75.203	[Box Plot]	
MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	45.2435	34.5649	75.796		
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	40.8721	9.7666	87.916		
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	67.5050	22.1818	120.861		
TB	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	83.6440	56.4577	120.902		
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	84.0020	58.4844	121.495		
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	40.9091	12.1212	88.216		

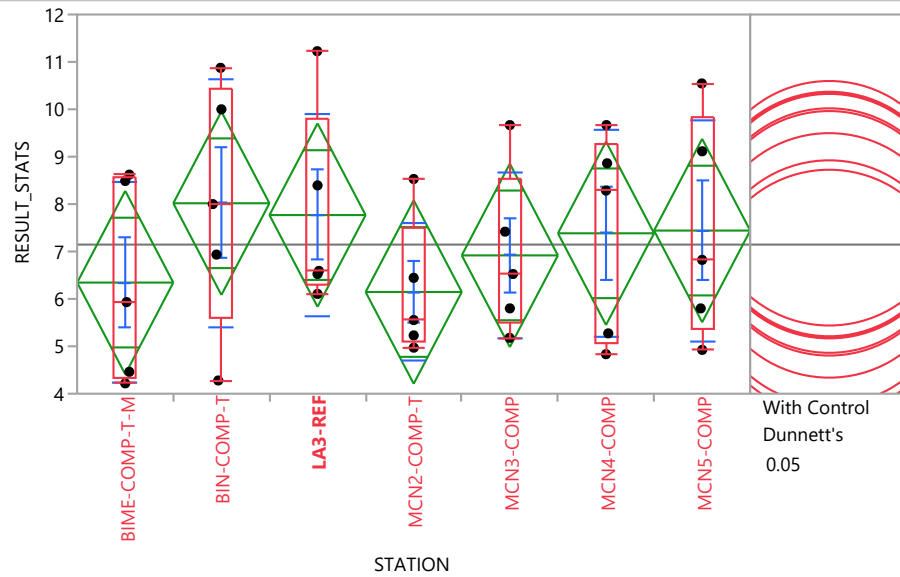
**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB151**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean		Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
		Difference	Std Err Dif						
TB	MCN3-COMP	4.80000	1.914854	2.50672	0.0122*	37.2093	7.0707	89.746	
TB	MCN4-COMP	4.80000	1.909043	2.51435	0.0119*	82.7357	29.3794	119.588	
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	84.6061	57.4961	122.232	
MCN1-COMP-T	LA3-REF	4.40000	1.914854	2.29783	0.0216*	43.0929	0.7714	51.922	
MCN1-COMP-T	BIN-COMP-T	4.00000	1.914854	2.08893	0.0367*	42.8934	-1.2553	51.329	
MCN2-COMP-T	BIMW-COMP-T-M	4.00000	1.914854	2.08893	0.0367*	37.3333	-1.7377	75.163	
MCN3-COMP	LA3-REF	4.00000	1.914854	2.08893	0.0367*	48.1434	-1.1974	57.463	
TB	MCN2-COMP-T	4.00000	1.914854	2.08893	0.0367*	31.4134	-7.6576	80.096	
MCN3-COMP	BIN-COMP-T	3.60000	1.914854	1.88004	0.0601	46.4347	-3.2241	56.870	
MCN1-COMP-T	BIMW-COMP-T-M	3.20000	1.914854	1.67115	0.0947	13.4595	-35.5312	51.289	
MCN3-COMP	BIMW-COMP-T-M	2.80000	1.914854	1.46225	0.1437	19.0000	-37.5000	56.829	
MCN4-COMP	LA3-REF	1.80000	1.903214	0.94577	0.3443	1.8308	-3.5233	38.759	
MCN2-COMP-T	MCN1-COMP-T	1.60000	1.914854	0.83557	0.4034	8.6453	-11.7983	54.237	
MCN2-COMP-T	BIME-COMP-T-M	1.20000	1.914854	0.62668	0.5309	8.6083	-16.9729	55.652	
MCN4-COMP	BIN-COMP-T	0.80000	1.909043	0.41906	0.6752	0.3350	-4.1105	38.166	
MCN3-COMP	MCN1-COMP-T	0.40000	1.914854	0.20889	0.8345	3.5413	-47.5606	50.642	
MCN3-COMP	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.2836	-47.5976	52.057	
MCN4-COMP	BIMW-COMP-T-M	0.00000	1.909043	0.00000	1.0000	0.1389	-38.3864	38.126	
LA3-REF	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.5929	-5.2125	4.837	
MCN1-COMP-T	BIME-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-0.4546	-45.6288	47.007	
MCN5-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-0.6041	-6.1677	4.826	
BIN-COMP-T	BIMW-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-2.9598	-40.9836	4.579	
MCN3-COMP	MCN2-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-8.8919	-56.2059	16.849	
MCN5-COMP	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-1.0384	-5.9505	5.669	
MCN5-COMP	MCN4-COMP	-1.20000	1.909043	-0.62859	0.5296	-1.7143	-39.4963	3.072	
MCN5-COMP	BIMW-COMP-T-M	-2.00000	1.914854	-1.04447	0.2963	-2.3972	-40.3698	4.193	
LA3-REF	BIMW-COMP-T-M	-2.40000	1.914854	-1.25336	0.2101	-1.6919	-39.6323	4.797	
BIMW-COMP-T-M	BIME-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-19.9091	-57.7384	36.946	
MCN4-COMP	BIME-COMP-T-M	-2.80000	1.909043	-1.46670	0.1425	-35.4633	-56.4647	3.219	
MCN4-COMP	MCN3-COMP	-2.80000	1.909043	-1.46670	0.1425	-31.6721	-55.5556	7.011	
BIN-COMP-T	BIME-COMP-T-M	-3.60000	1.914854	-1.88004	0.0601	-43.3476	-57.7787	2.670	
LA3-REF	BIME-COMP-T-M	-4.00000	1.914854	-2.08893	0.0367*	-43.1299	-58.3716	0.643	
MCN4-COMP	MCN1-COMP-T	-4.00000	1.909043	-2.09529	0.0361*	-33.2027	-50.0151	5.480	
MCN5-COMP	BIME-COMP-T-M	-4.00000	1.914854	-2.08893	0.0367*	-43.7340	-59.1091	1.632	
MCN5-COMP	MCN1-COMP-T	-4.00000	1.914854	-2.08893	0.0367*	-43.6970	-52.6595	0.217	
MCN5-COMP	MCN3-COMP	-4.00000	1.914854	-2.08893	0.0367*	-47.8140	-58.2000	2.186	
MCN4-COMP	MCN2-COMP-T	-4.40000	1.909043	-2.30482	0.0212*	-41.3226	-73.8889	-2.640	
MCN5-COMP	MCN2-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-44.8571	-76.5333	-33.577	



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB156**



Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	4.21818	4.21818	4.33986	5.93182	8.554715	8.62162	8.62162
BIN-COMP-T	4.27869	4.27869	5.606735	8	10.4375	10.875	10.875
LA3-REF	6.10526	6.10526	6.31513	6.59091	9.81027	11.2258	11.2258
MCN2-COMP-T	4.97143	4.97143	5.10047	5.55319	7.486925	8.52941	8.52941
MCN3-COMP	5.17857	5.17857	5.489285	6.525	8.542635	9.66667	9.66667
MCN4-COMP	4.83333	4.83333	5.05303	8.28571	9.26389	9.66667	9.66667
MCN5-COMP	4.92453	4.92453	5.362265	6.82353	9.829895	10.5455	10.5455

**Oneway Anova**

**Summary of Fit**

Rsquare	0.106804
Adj Rsquare	-0.0846
Root Mean Square Error	2.112019
Mean of Response	7.145582
Observations (or Sum Wgts)	35

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	6	14.93456	2.48909	0.5580	0.7597
Error	28	124.89747	4.46062		
C. Total	34	139.83204			

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB156**

**Oneway Anova**

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	6.34419	0.94452	4.4094	8.2790
BIN-COMP-T	5	8.01769	0.94452	6.0829	9.9525
LA3-REF	5	7.76834	0.94452	5.8336	9.7031
MCN2-COMP-T	5	6.14560	0.94452	4.2108	8.0804
MCN3-COMP	5	6.91777	0.94452	4.9830	8.8525
MCN4-COMP	5	7.38391	0.94452	5.4491	9.3187
MCN5-COMP	5	7.44157	0.94452	5.5068	9.3763

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	6.34419	2.12227	0.9491	3.7090	8.979
BIN-COMP-T	5	8.01769	2.60993	1.1672	4.7770	11.258
LA3-REF	5	7.76834	2.12394	0.9499	5.1311	10.406
MCN2-COMP-T	5	6.14560	1.44401	0.6458	4.3526	7.939
MCN3-COMP	5	6.91777	1.74898	0.7822	4.7461	9.089
MCN4-COMP	5	7.38391	2.18911	0.9790	4.6658	10.102
MCN5-COMP	5	7.44157	2.33691	1.0451	4.5399	10.343

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.73128	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
BIN-COMP-T	-3.4	1.0000
LA3-REF	-3.65	1.0000
MCN5-COMP	-3.32	0.9998
MCN4-COMP	-3.26	0.9995
MCN3-COMP	-2.8	0.9704
BIME-COMP-T-M	-2.22	0.7784
MCN2-COMP-T	-2.03	0.6781

Positive values show pairs of means that are significantly different.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB156**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

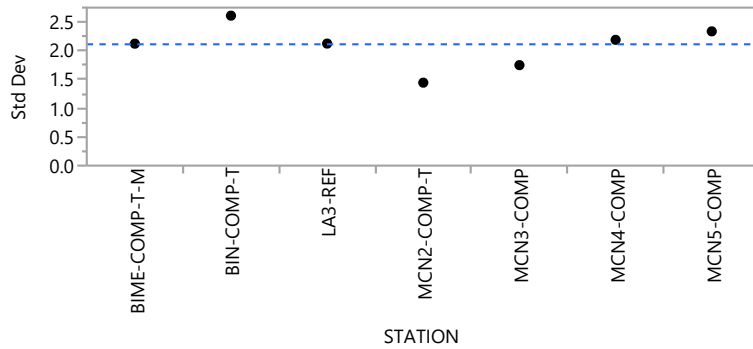
Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	69.000	90.000	13.8000	-0.967
BIN-COMP-T	5	110.000	90.000	22.0000	0.919
LA3-REF	5	107.500	90.000	21.5000	0.802
MCN2-COMP-T	5	65.000	90.000	13.0000	-1.155
MCN3-COMP	5	86.500	90.000	17.3000	-0.141
MCN4-COMP	5	94.500	90.000	18.9000	0.189
MCN5-COMP	5	97.500	90.000	19.5000	0.330

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
3.5463	6	0.7378

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif	
			to Mean	to Median
BIME-COMP-T-M	5	2.122271	1.768417	1.685942
BIN-COMP-T	5	2.609928	1.935845	1.932306
LA3-REF	5	2.123940	1.633542	1.398056
MCN2-COMP-T	5	1.444014	1.073063	0.954582
MCN3-COMP	5	1.748984	1.299894	1.221340
MCN4-COMP	5	2.189115	1.864704	1.684344
MCN5-COMP	5	2.336910	1.910660	1.787052

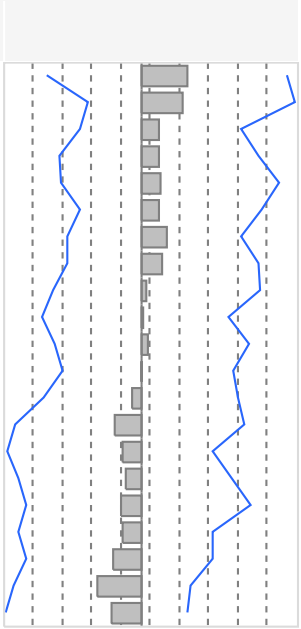
Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	0.4231	6	28	0.8573
Brown-Forsythe	0.2979	6	28	0.9327
Levene	0.5675	6	28	0.7525
Bartlett	0.2552	6	.	0.9574

Warning: Small sample sizes. Use Caution.

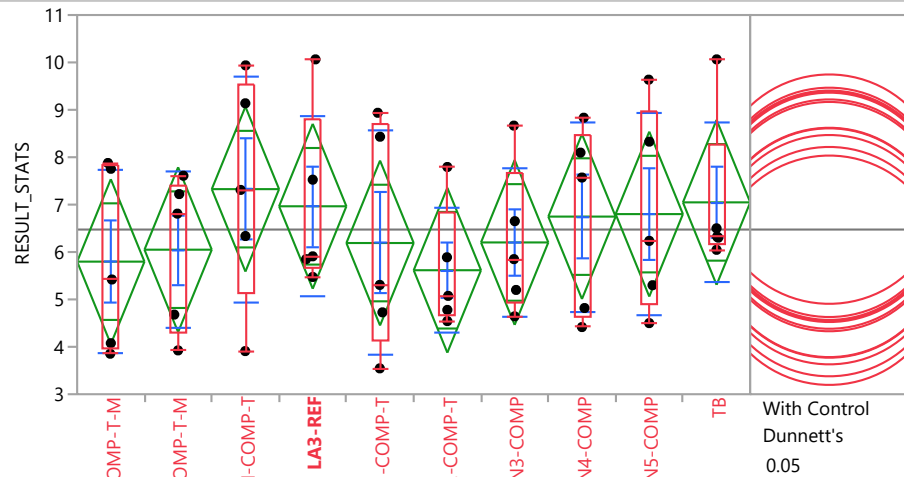
**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB156**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

		q*	Alpha					
		1.95996	0.05					
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
BIN-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	2.06818	-4.20912	6.413460
LA3-REF	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.88708	-2.38255	6.764260
MCN3-COMP	MCN2-COMP-T	1.60000	1.914854	0.83557	0.4034	0.82857	-2.72941	4.437160
MCN4-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.81119	-3.65448	5.205130
MCN5-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.89171	-3.56328	6.083960
MCN5-COMP	MCN2-COMP-T	1.60000	1.914854	0.83557	0.4034	0.82857	-2.72941	5.315990
MCN4-COMP	MCN2-COMP-T	1.20000	1.914854	0.62668	0.5309	1.13726	-3.25668	4.437160
MCN3-COMP	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.96039	-3.30924	5.205130
MCN5-COMP	MCN4-COMP	0.40000	1.914854	0.20889	0.8345	0.25318	-3.93658	5.272770
MCN4-COMP	MCN3-COMP	0.20000	1.909043	0.10476	0.9166	0.09416	-4.39394	3.866670
MCN5-COMP	MCN3-COMP	0.20000	1.909043	0.10476	0.9166	0.29853	-3.86667	4.745500
MCN2-COMP-T	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.04160	-3.51638	4.067870
LA3-REF	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.40978	-4.35000	4.291020
MCN4-COMP	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-1.13889	-5.60227	4.582420
MCN4-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-0.83253	-5.95307	3.141670
MCN5-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-0.68030	-5.42580	4.020500
MCN5-COMP	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.88571	-5.07547	4.835600
MCN3-COMP	LA3-REF	-1.40000	1.909043	-0.73335	0.4633	-0.79091	-5.42580	3.141670
MCN3-COMP	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-1.20833	-5.07500	3.139910
MCN2-COMP-T	BIN-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-1.96335	-5.64549	2.165750
MCN2-COMP-T	LA3-REF	-2.80000	1.914854	-1.46225	0.1437	-1.29549	-5.99629	2.004410



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB157**



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB157**

BIME-C  
BIMW-C  
BIN  
MCN1  
MCN2  
MCF  
MCF  
MCF

STATION

**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	3.85455	3.85455	3.965735	5.42045	7.81724	7.87838	7.87838
BIMW-COMP-T-M	3.92453	3.92453	4.302265	6.80952	7.41599	7.60976	7.60976
BIN-COMP-T	3.90984	3.90984	5.1234	7.31035	9.537715	9.9375	9.9375
LA3-REF	5.47368	5.47368	5.66184	5.90909	8.79541	10.0645	10.0645
MCN1-COMP-T	3.54545	3.54545	4.13636	5.30612	8.684965	8.9375	8.9375
MCN2-COMP-T	4.54286	4.54286	4.660775	5.07447	6.841505	7.79412	7.79412
MCN3-COMP	4.64286	4.64286	4.92143	5.85	7.658915	8.66667	8.66667
MCN4-COMP	4.41667	4.41667	4.617425	7.57143	8.465275	8.83333	8.83333
MCN5-COMP	4.5	4.5	4.9	6.23529	8.982465	9.63636	9.63636
TB	6.04651	6.04651	6.17477	6.32432	8.28225	10.0645	10.0645

**Oneway Anova**

**Summary of Fit**

Rsquare	0.092173
Adj Rsquare	-0.11209
Root Mean Square Error	1.924171
Mean of Response	6.47405
Observations (or Sum Wgts)	50

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	9	15.03661	1.67073	0.4513	0.8980
Error	40	148.09742	3.70244		
C. Total	49	163.13403			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	5.79728	0.86052	4.0581	7.5364
BIMW-COMP-T-M	5	6.04921	0.86052	4.3100	7.7884
BIN-COMP-T	5	7.32652	0.86052	5.5873	9.0657
LA3-REF	5	6.96472	0.86052	5.2256	8.7039
MCN1-COMP-T	5	6.18975	0.86052	4.4506	7.9289
MCN2-COMP-T	5	5.61581	0.86052	3.8766	7.3550
MCN3-COMP	5	6.20214	0.86052	4.4630	7.9413
MCN4-COMP	5	6.74737	0.86052	5.0082	8.4865
MCN5-COMP	5	6.80004	0.86052	5.0609	8.5392
TB	5	7.04767	0.86052	5.3085	8.7868

Std Error uses a pooled estimate of error variance

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB157**

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	5.79728	1.93932	0.8673	3.3893	8.205
BIMW-COMP-T-M	5	6.04921	1.64152	0.7341	4.0110	8.087
BIN-COMP-T	5	7.32652	2.38493	1.0666	4.3652	10.288
LA3-REF	5	6.96472	1.90422	0.8516	4.6003	9.329
MCN1-COMP-T	5	6.18975	2.37127	1.0605	3.2454	9.134
MCN2-COMP-T	5	5.61581	1.31953	0.5901	3.9774	7.254
MCN3-COMP	5	6.20214	1.56805	0.7013	4.2551	8.149
MCN4-COMP	5	6.74737	2.00040	0.8946	4.2635	9.231
MCN5-COMP	5	6.80004	2.13544	0.9550	4.1485	9.452
TB	5	7.04767	1.69420	0.7577	4.9440	9.151

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
BIN-COMP-T	-3.06	1.0000
TB	-3.34	1.0000
LA3-REF	-3.42	1.0000
MCN5-COMP	-3.26	1.0000
MCN4-COMP	-3.2	1.0000
MCN3-COMP	-2.66	0.9938
MCN1-COMP-T	-2.65	0.9931
BIMW-COMP-T-M	-2.51	0.9796
BIME-COMP-T-M	-2.25	0.9213
MCN2-COMP-T	-2.07	0.8477

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	101.000	127.500	20.2000	-0.841
BIMW-COMP-T-M	5	113.000	127.500	22.6000	-0.453
BIN-COMP-T	5	158.000	127.500	31.6000	0.970
LA3-REF	5	146.000	127.500	29.2000	0.582
MCN1-COMP-T	5	116.000	127.500	23.2000	-0.356
MCN2-COMP-T	5	94.000	127.500	18.8000	-1.067
MCN3-COMP	5	117.500	127.500	23.5000	-0.307

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB157**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

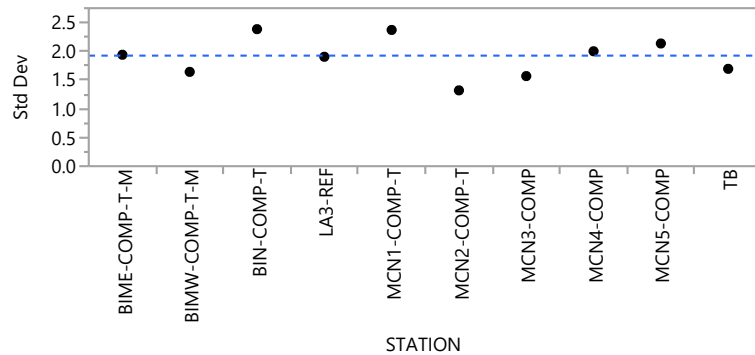
Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
MCN4-COMP	5	138.000	127.500	27.6000	0.323
MCN5-COMP	5	136.000	127.500	27.2000	0.259
TB	5	155.500	127.500	31.1000	0.889

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
4.2413	9	0.8948

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	1.939316	1.615968	1.540602
BIMW-COMP-T-M	5	1.641519	1.397553	1.245490
BIN-COMP-T	5	2.384933	1.768959	1.765726
LA3-REF	5	1.904218	1.464554	1.253428
MCN1-COMP-T	5	2.371272	1.996169	1.819442
MCN2-COMP-T	5	1.319531	0.980559	0.872292
MCN3-COMP	5	1.568054	1.165422	1.094994
MCN4-COMP	5	2.000396	1.703953	1.539140
MCN5-COMP	5	2.135437	1.745937	1.632986
TB	5	1.694200	1.206731	0.842992

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	0.4604	9	40	0.8922
Brown-Forsythe	0.3407	9	40	0.9556
Levene	0.6689	9	40	0.7316
Bartlett	0.2475	9	.	0.9873

Warning: Small sample sizes. Use Caution.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB157**

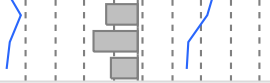
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

		q*	Alpha									
		1.95996	0.05									
Level	- Level	Score Mean		Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL				
		Difference	Std Err Dif									
TB	MCN2-COMP-T	3.20000	1.914854	1.67115	0.0947	1.42553	-1.49109	5.285810				
BIN-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.88990	-3.84626	5.860580				
LA3-REF	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.61913	-2.28242	5.987580				
MCN4-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.74126	-3.33943	4.756410				
MCN4-COMP	BIMW-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.76191	-2.80555	4.172690				
MCN5-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.81484	-3.25610	5.559440				
MCN5-COMP	MCN2-COMP-T	1.60000	1.914854	0.83557	0.4034	0.75714	-2.49412	4.857670				
TB	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.96959	-1.70959	5.987580				
TB	MCN1-COMP-T	1.60000	1.914854	0.83557	0.4034	1.19388	-2.63447	5.337230				
TB	MCN3-COMP	1.60000	1.914854	0.83557	0.4034	0.84651	-2.36364	4.864500				
TB	LA3-REF	1.40000	1.909043	0.73335	0.4633	0.41523	-3.76147	4.214500				
BIN-COMP-T	BIMW-COMP-T-M	1.20000	1.914854	0.62668	0.5309	1.65696	-3.31238	5.257500				
MCN3-COMP	MCN2-COMP-T	1.20000	1.914854	0.62668	0.5309	0.65714	-2.59412	3.887980				
MCN4-COMP	MCN2-COMP-T	1.20000	1.914854	0.62668	0.5309	1.03921	-2.97594	4.054640				
TB	MCN5-COMP	1.20000	1.914854	0.62668	0.5309	0.42814	-3.33333	4.764500				
LA3-REF	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.79368	-1.75976	5.384500				
MCN3-COMP	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.78829	-3.11324	4.589750				
MCN5-COMP	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.71881	-2.72222	4.956360				
MCN1-COMP-T	BIME-COMP-T-M	0.40000	1.914854	0.20889	0.8345	0.65035	-4.21065	4.860580				
MCN1-COMP-T	BIMW-COMP-T-M	0.40000	1.914854	0.20889	0.8345	0.62612	-3.67677	4.507900				
MCN4-COMP	MCN3-COMP	0.40000	1.914854	0.20889	0.8345	0.17532	-3.84849	3.633330				
MCN5-COMP	MCN1-COMP-T	0.40000	1.914854	0.20889	0.8345	0.69886	-3.93243	4.909090				
MCN5-COMP	MCN3-COMP	0.40000	1.914854	0.20889	0.8345	0.38529	-3.36667	4.436360				
MCN5-COMP	MCN4-COMP	0.40000	1.914854	0.20889	0.8345	0.23135	-3.59722	4.818180				
BIMW-COMP-T-M	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.14634	-3.83157	3.532840				
MCN2-COMP-T	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.03802	-3.21324	3.717200				
MCN2-COMP-T	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.13714	-2.83107	3.114120				
MCN3-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.03714	-2.57936	3.986670				
MCN3-COMP	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	0.23424	-3.78957	3.939400				
MCN4-COMP	LA3-REF	0.00000	1.914854	0.00000	1.0000	-0.65550	-5.24632	2.983330				
MCN4-COMP	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	0.09091	-4.11932	4.551770				
TB	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	1.36651	-1.30673	5.384500				
TB	MCN4-COMP	0.00000	1.914854	0.00000	1.0000	1.22833	-2.53030	5.246320				
LA3-REF	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.48696	-4.08750	3.727540				
MCN2-COMP-T	MCN1-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.23165	-4.15881	3.066850				
MCN4-COMP	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-1.04071	-5.11932	4.187380				
MCN5-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-0.42814	-4.76450	3.786360				
MCN5-COMP	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.80936	-4.63793	4.418730				
TB	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.29045	-3.63447	3.727540				
MCN3-COMP	LA3-REF	-1.40000	1.909043	-0.73335	0.4633	-0.70909	-4.86450	2.816670				
MCN1-COMP-T	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-1.03084	-5.59248	4.522590				
MCN1-COMP-T	LA3-REF	-1.60000	1.914854	-0.83557	0.4034	-1.12273	-5.33723	3.087500				

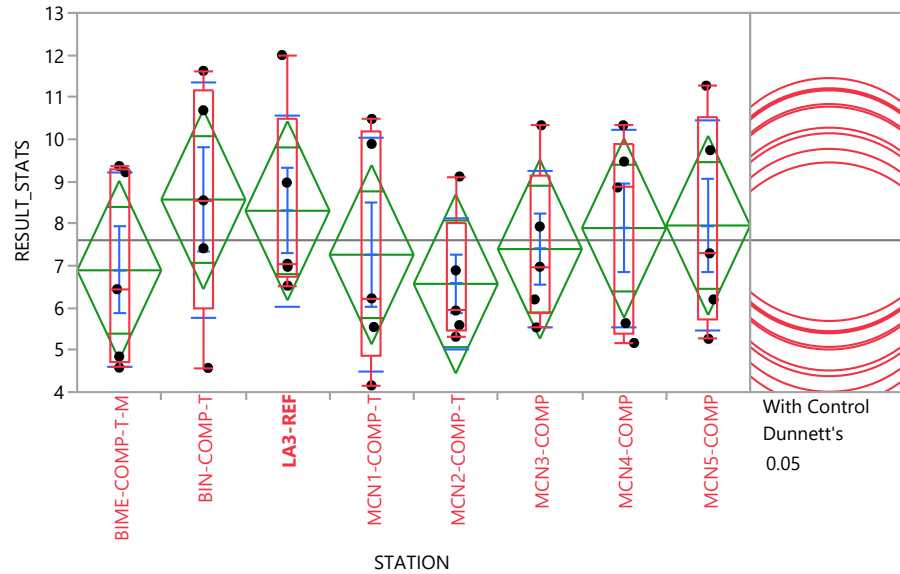


**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB157**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean		Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
		Difference	Std Err Dif						
MCN3-COMP	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-1.27083	-4.73750	2.741320	
MCN2-COMP-T	BIN-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-1.79410	-5.15881	1.979050	
MCN2-COMP-T	LA3-REF	-2.40000	1.914854	-1.25336	0.2101	-1.07131	-5.28581	1.944120	

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB167**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	4.58182	4.58182	4.713985	6.44318	9.29219	9.36487	9.36487
BIN-COMP-T	4.57377	4.57377	5.993405	8.55172	11.15735	11.625	11.625
LA3-REF	6.52632	6.52632	6.75066	7.04545	10.48684	12	12
MCN1-COMP-T	4.15909	4.15909	4.85227	6.22449	10.18815	10.4844	10.4844
MCN2-COMP-T	5.31429	5.31429	5.452225	5.93617	8.00327	9.11765	9.11765
MCN3-COMP	5.53571	5.53571	5.867855	6.975	9.131765	10.3333	10.3333
MCN4-COMP	5.16667	5.16667	5.401515	8.85714	9.90276	10.3333	10.3333
MCN5-COMP	5.26415	5.26415	5.732075	7.29412	10.50778	11.2727	11.2727

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB167**

**Oneway Anova**

**Summary of Fit**

Rsquare	0.088158
Adj Rsquare	-0.11131
Root Mean Square Error	2.334114
Mean of Response	7.604886
Observations (or Sum Wgts)	40

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	7	16.85530	2.40790	0.4420	0.8681
Error	32	174.33879	5.44809		
C. Total	39	191.19409			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	6.89111	1.0438	4.7649	9.017
BIN-COMP-T	5	8.57065	1.0438	6.4444	10.697
LA3-REF	5	8.30409	1.0438	6.1778	10.430
MCN1-COMP-T	5	7.26106	1.0438	5.1348	9.387
MCN2-COMP-T	5	6.56943	1.0438	4.4432	8.696
MCN3-COMP	5	7.39485	1.0438	5.2686	9.521
MCN4-COMP	5	7.89314	1.0438	5.7669	10.019
MCN5-COMP	5	7.95477	1.0438	5.8285	10.081

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	6.89111	2.30523	1.0309	4.0288	9.753
BIN-COMP-T	5	8.57065	2.78993	1.2477	5.1065	12.035
LA3-REF	5	8.30409	2.27042	1.0154	5.4850	11.123
MCN1-COMP-T	5	7.26106	2.78169	1.2440	3.8071	10.715
MCN2-COMP-T	5	6.56943	1.54360	0.6903	4.6528	8.486
MCN3-COMP	5	7.39485	1.86959	0.8361	5.0734	9.716
MCN4-COMP	5	7.89314	2.34008	1.0465	4.9875	10.799
MCN5-COMP	5	7.95477	2.49805	1.1172	4.8530	11.057

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.76173	0.05

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB167**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
BIN-COMP-T	-3.81	1.0000
LA3-REF	-4.08	1.0000
MCN5-COMP	-3.73	1.0000
MCN4-COMP	-3.67	0.9999
MCN3-COMP	-3.17	0.9848
MCN1-COMP-T	-3.03	0.9689
BIME-COMP-T-M	-2.66	0.8772
MCN2-COMP-T	-2.34	0.7457

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	82.000	102.500	16.4000	-0.818
BIN-COMP-T	5	126.000	102.500	25.2000	0.941
LA3-REF	5	124.500	102.500	24.9000	0.879
MCN1-COMP-T	5	94.000	102.500	18.8000	-0.327
MCN2-COMP-T	5	75.000	102.500	15.0000	-1.104
MCN3-COMP	5	99.500	102.500	19.9000	-0.102
MCN4-COMP	5	107.500	102.500	21.5000	0.184
MCN5-COMP	5	111.500	102.500	22.3000	0.348

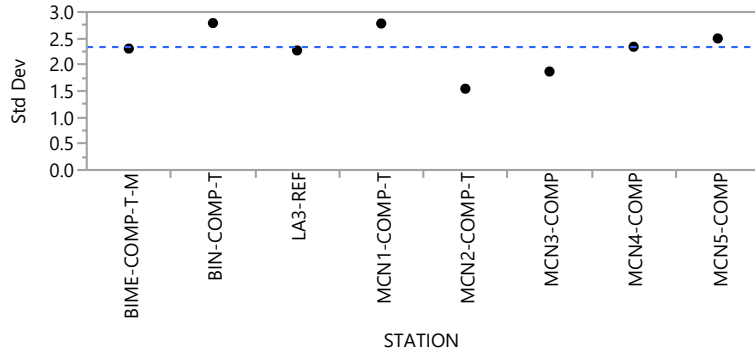
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
3.5132	7	0.8338

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB167**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	2.305225	1.920867	1.831282
BIN-COMP-T	5	2.789933	2.069363	2.065578
LA3-REF	5	2.270420	1.746200	1.494472
MCN1-COMP-T	5	2.781690	2.341665	2.134350
MCN2-COMP-T	5	1.543603	1.147070	1.020418
MCN3-COMP	5	1.869590	1.389534	1.305564
MCN4-COMP	5	2.340078	1.993298	1.800498
MCN5-COMP	5	2.498051	2.042411	1.910282

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	0.4810	7	32	0.8411
Brown-Forsythe	0.3082	7	32	0.9450
Levene	0.6993	7	32	0.6723
Bartlett	0.2626	7	.	0.9683

Warning: Small sample sizes. Use Caution.

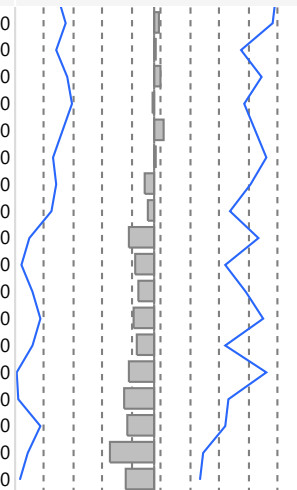
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*		Alpha								
1.95996		0.05								
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL		
LA3-REF	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.94450	-2.69319	7.153850		
MCN3-COMP	MCN2-COMP-T	1.60000	1.914854	0.83557	0.4034	0.88571	-2.91765	4.743140		
MCN4-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.79021	-4.05284	5.487150		
MCN5-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.85094	-3.95536	6.426550		
MCN5-COMP	MCN2-COMP-T	1.60000	1.914854	0.83557	0.4034	0.88571	-2.91765	5.682540		
BIN-COMP-T	BIME-COMP-T-M	1.20000	1.914854	0.62668	0.5309	2.10854	-4.64574	6.778850		
MCN4-COMP	MCN2-COMP-T	1.20000	1.914854	0.62668	0.5309	1.21565	-3.48129	4.743140		
MCN3-COMP	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.95389	-3.68380	5.487150		
MCN1-COMP-T	BIME-COMP-T-M	0.40000	1.914854	0.20889	0.8345	0.67238	-5.06042	5.638250		
MCN5-COMP	MCN1-COMP-T	0.40000	1.914854	0.20889	0.8345	0.78830	-4.62774	5.727250		

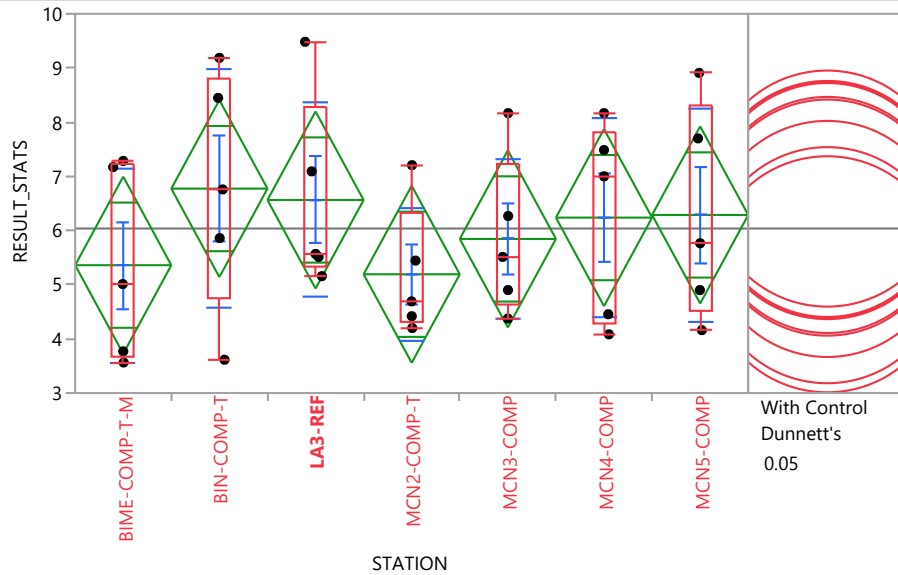
**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB167**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
MCN5-COMP	MCN4-COMP	0.40000	1.914854	0.20889	0.8345	0.27064	-4.20807	5.636340
MCN4-COMP	MCN3-COMP	0.20000	1.909043	0.10476	0.9166	0.10065	-4.69694	4.133300
MCN5-COMP	MCN3-COMP	0.20000	1.909043	0.10476	0.9166	0.31912	-4.13330	5.072700
MCN2-COMP-T	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.10186	-3.90522	4.271500
MCN3-COMP	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	0.44141	-4.35618	4.787850
MCN4-COMP	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	0.09091	-4.84804	5.313130
LA3-REF	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.43804	-4.65000	4.586960
MCN2-COMP-T	MCN1-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.28832	-4.89424	3.572200
MCN4-COMP	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-1.21748	-5.98864	4.898450
MCN4-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-0.88996	-6.36364	3.358300
MCN5-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-0.72730	-5.80000	4.297700
MCN5-COMP	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.94684	-5.42555	5.169090
MCN3-COMP	LA3-REF	-1.40000	1.909043	-0.73335	0.4633	-0.84545	-5.80000	3.358300
MCN1-COMP-T	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-1.18855	-6.53061	5.318120
MCN1-COMP-T	LA3-REF	-1.60000	1.914854	-0.83557	0.4034	-1.42955	-6.45455	3.509400
MCN3-COMP	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-1.29170	-5.42500	3.356460
MCN2-COMP-T	BIN-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-2.09875	-6.03484	2.315120
MCN2-COMP-T	LA3-REF	-2.80000	1.914854	-1.46225	0.1437	-1.38484	-6.40984	2.142650



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB168**



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB168**

Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	3.56364	3.56364	3.666435	5.01136	7.227255	7.28378	7.28378
BIN-COMP-T	3.61475	3.61475	4.736725	6.75862	8.81789	9.1875	9.1875
LA3-REF	5.15789	5.15789	5.335195	5.56818	8.28799	9.48387	9.48387
MCN2-COMP-T	4.2	4.2	4.309015	4.69149	6.32516	7.20588	7.20588
MCN3-COMP	4.375	4.375	4.6375	5.5125	7.217055	8.16667	8.16667
MCN4-COMP	4.08333	4.08333	4.26894	7	7.82639	8.16667	8.16667
MCN5-COMP	4.16038	4.16038	4.53019	5.76471	8.304545	8.90909	8.90909

**Oneway Anova**

**Summary of Fit**

Rsquare	0.106804
Adj Rsquare	-0.0846
Root Mean Square Error	1.78429
Mean of Response	6.036784
Observations (or Sum Wgts)	35

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	6	10.659313	1.77655	0.5580	0.7597
Error	28	89.143346	3.18369		
C. Total	34	99.802659			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	5.35975	0.79796	3.7252	6.9943
BIN-COMP-T	5	6.77357	0.79796	5.1390	8.4081
LA3-REF	5	6.56291	0.79796	4.9284	8.1975
MCN2-COMP-T	5	5.19197	0.79796	3.5574	6.8265
MCN3-COMP	5	5.84432	0.79796	4.2098	7.4789
MCN4-COMP	5	6.23813	0.79796	4.6036	7.8727
MCN5-COMP	5	6.28684	0.79796	4.6523	7.9214

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	5.35975	1.79295	0.80183	3.1335	7.5860
BIN-COMP-T	5	6.77357	2.20494	0.98608	4.0358	9.5114
LA3-REF	5	6.56291	1.79437	0.80246	4.3349	8.7909
MCN2-COMP-T	5	5.19197	1.21994	0.54558	3.6772	6.7067
MCN3-COMP	5	5.84432	1.47759	0.66080	4.0097	7.6790
MCN4-COMP	5	6.23813	1.84942	0.82709	3.9418	8.5345
MCN5-COMP	5	6.28684	1.97427	0.88292	3.8355	8.7382

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB168**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.73128	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
BIN-COMP-T	-2.87	1.0000
LA3-REF	-3.08	1.0000
MCN5-COMP	-2.81	0.9998
MCN4-COMP	-2.76	0.9995
MCN3-COMP	-2.36	0.9704
BIME-COMP-T-M	-1.88	0.7784
MCN2-COMP-T	-1.71	0.6781

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	69.000	90.000	13.8000	-0.967
BIN-COMP-T	5	110.000	90.000	22.0000	0.919
LA3-REF	5	107.500	90.000	21.5000	0.802
MCN2-COMP-T	5	65.000	90.000	13.0000	-1.155
MCN3-COMP	5	86.500	90.000	17.3000	-0.141
MCN4-COMP	5	94.500	90.000	18.9000	0.189
MCN5-COMP	5	97.500	90.000	19.5000	0.330

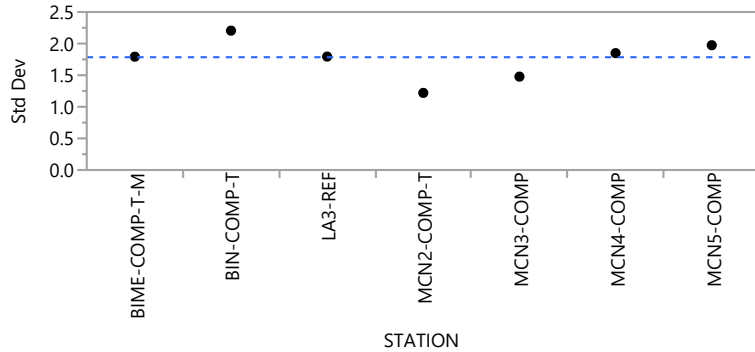
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
3.5463	6	0.7378

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB168**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	1.792950	1.494006	1.424328
BIN-COMP-T	5	2.204941	1.635456	1.632466
LA3-REF	5	1.794365	1.380064	1.181118
MCN2-COMP-T	5	1.219943	0.906554	0.806458
MCN3-COMP	5	1.477590	1.098186	1.031822
MCN4-COMP	5	1.849425	1.575354	1.422980
MCN5-COMP	5	1.974272	1.614167	1.509742

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	0.4231	6	28	0.8573
Brown-Forsythe	0.2979	6	28	0.9327
Levene	0.5675	6	28	0.7525
Bartlett	0.2552	6	.	0.9574

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

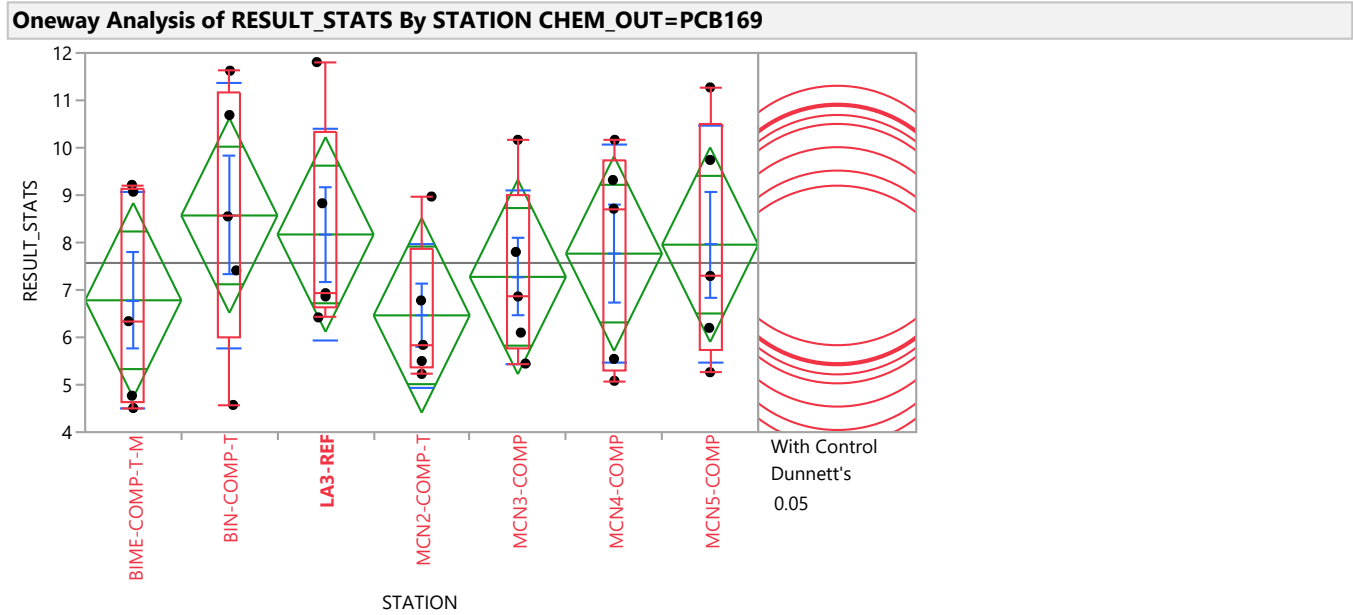
q*		Alpha		Score Mean		Hodges-Lehmann		Lower CL		Upper CL	
Level	- Level	Difference	Std Err Dif	Z	p-Value	Lehmann	Lower CL	Upper CL			
BIN-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.74726	-3.55598	5.418270			
LA3-REF	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.59425	-2.01284	5.714640			
MCN3-COMP	MCN2-COMP-T	1.60000	1.914854	0.83557	0.4034	0.70000	-2.30588	3.748640			
MCN4-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.68532	-3.08740	4.397440			
MCN5-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.75335	-3.01035	5.139860			
MCN5-COMP	MCN2-COMP-T	1.60000	1.914854	0.83557	0.4034	0.70000	-2.30588	4.491060			
MCN4-COMP	MCN2-COMP-T	1.20000	1.914854	0.62668	0.5309	0.96079	-2.75133	3.748640			
MCN3-COMP	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.81136	-2.79573	4.397440			
MCN5-COMP	MCN4-COMP	0.40000	1.914854	0.20889	0.8345	0.21389	-3.32573	4.454540			
MCN4-COMP	MCN3-COMP	0.20000	1.909043	0.10476	0.9166	0.07955	-3.71212	3.266670			
MCN5-COMP	MCN3-COMP	0.20000	1.909043	0.10476	0.9166	0.25221	-3.26667	4.009090			



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB168**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
MCN2-COMP-T	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.03515	-2.97073	3.436650
LA3-REF	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.34620	-3.67500	3.625170
MCN4-COMP	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.96217	-4.73295	3.871360
MCN4-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-0.70334	-5.02932	2.654170
MCN5-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-0.57478	-4.58387	3.396590
MCN5-COMP	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.74828	-4.28790	4.085250
MCN3-COMP	LA3-REF	-1.40000	1.909043	-0.73335	0.4633	-0.66818	-4.58387	2.654170
MCN3-COMP	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-1.02083	-4.28750	2.652690
MCN2-COMP-T	BIN-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-1.65870	-4.76947	1.829690
MCN2-COMP-T	LA3-REF	-2.80000	1.914854	-1.46225	0.1437	-1.09447	-5.06584	1.693380



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	4.50909	4.50909	4.63916	6.34091	9.144695	9.21622	9.21622
BIN-COMP-T	4.57377	4.57377	5.993405	8.55172	11.15735	11.625	11.625
LA3-REF	6.42105	6.42105	6.641775	6.93182	10.31773	11.8065	11.8065
MCN2-COMP-T	5.22857	5.22857	5.364285	5.84043	7.874185	8.97059	8.97059
MCN3-COMP	5.44643	5.44643	5.773215	6.8625	8.984515	10.1667	10.1667
MCN4-COMP	5.08333	5.08333	5.31439	8.71429	9.74307	10.1667	10.1667
MCN5-COMP	5.26415	5.26415	5.732075	7.29412	10.50778	11.2727	11.2727

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB169**

**Oneway Anova**

**Summary of Fit**

Rsquare	0.110132
Adj Rsquare	-0.08055
Root Mean Square Error	2.240904
Mean of Response	7.568887
Observations (or Sum Wgts)	35

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	6	17.40167	2.90028	0.5776	0.7449
Error	28	140.60624	5.02165		
C. Total	34	158.00791			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	6.78172	1.0022	4.7289	8.835
BIN-COMP-T	5	8.57065	1.0022	6.5178	10.623
LA3-REF	5	8.17016	1.0022	6.1173	10.223
MCN2-COMP-T	5	6.46347	1.0022	4.4106	8.516
MCN3-COMP	5	7.27559	1.0022	5.2228	9.328
MCN4-COMP	5	7.76584	1.0022	5.7130	9.819
MCN5-COMP	5	7.95477	1.0022	5.9019	10.008

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	6.78172	2.26863	1.0146	3.9648	9.599
BIN-COMP-T	5	8.57065	2.78993	1.2477	5.1065	12.035
LA3-REF	5	8.17016	2.23382	0.9990	5.3965	10.944
MCN2-COMP-T	5	6.46347	1.51871	0.6792	4.5778	8.349
MCN3-COMP	5	7.27559	1.83946	0.8226	4.9916	9.560
MCN4-COMP	5	7.76584	2.30235	1.0296	4.9071	10.625
MCN5-COMP	5	7.95477	2.49805	1.1172	4.8530	11.057

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.73128	0.05

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB169**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
BIN-COMP-T	-3.47	0.9996
LA3-REF	-3.87	1.0000
MCN5-COMP	-3.66	1.0000
MCN4-COMP	-3.47	0.9996
MCN3-COMP	-2.98	0.9715
BIME-COMP-T-M	-2.48	0.8315
MCN2-COMP-T	-2.16	0.6855

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

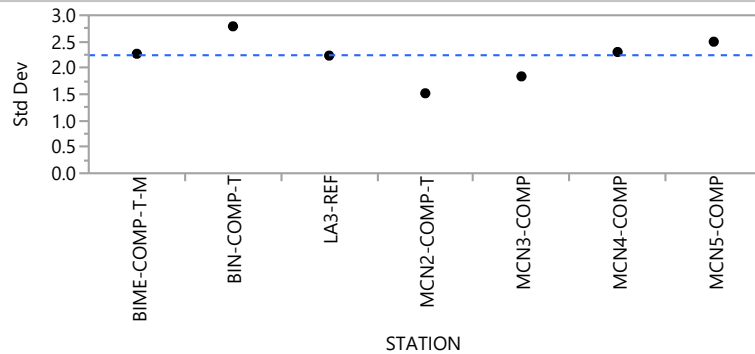
Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	70.000	90.000	14.0000	-0.919
BIN-COMP-T	5	110.000	90.000	22.0000	0.919
LA3-REF	5	107.500	90.000	21.5000	0.801
MCN2-COMP-T	5	63.000	90.000	12.6000	-1.249
MCN3-COMP	5	86.000	90.000	17.2000	-0.165
MCN4-COMP	5	94.500	90.000	18.9000	0.189
MCN5-COMP	5	99.000	90.000	19.8000	0.401

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
3.7201	6	0.7145

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB169**

**Tests that the Variances are Equal**

Level	Count	Std Dev	MeanAbsDif	MeanAbsDif
			to Mean	to Median
BIME-COMP-T-M	5	2.268634	1.890377	1.802214
BIN-COMP-T	5	2.789933	2.069363	2.065578
LA3-REF	5	2.233821	1.718049	1.470380
MCN2-COMP-T	5	1.518706	1.128569	1.003960
MCN3-COMP	5	1.839460	1.367138	1.284520
MCN4-COMP	5	2.302355	1.961162	1.771472
MCN5-COMP	5	2.498051	2.042411	1.910282

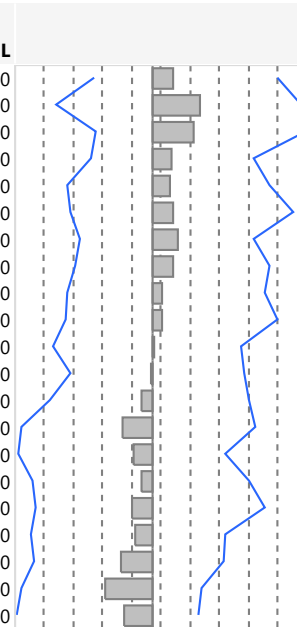
Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[5]	0.4511	6	28	0.8380
Brown-Forsythe	0.3155	6	28	0.9235
Levene	0.5952	6	28	0.7315
Bartlett	0.2708	6	.	0.9508

Warning: Small sample sizes. Use Caution.

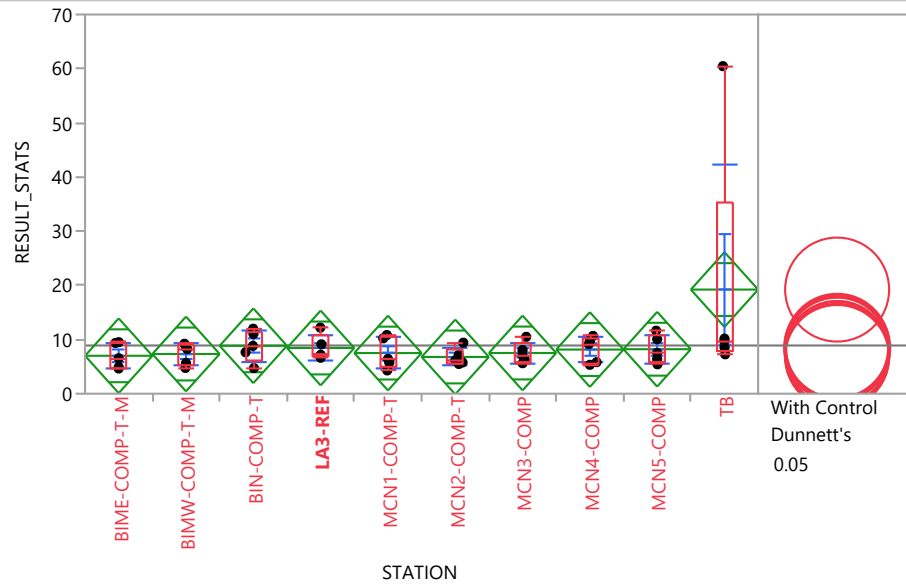
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q\*    Alpha  
1.95996    0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
MCN5-COMP	MCN2-COMP-T	2.00000	1.914854	1.04447	0.2963	0.97143	-2.77059	5.772700
BIN-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	2.21081	-4.49940	6.855770
LA3-REF	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.91196	-2.65212	7.037270
MCN3-COMP	MCN2-COMP-T	1.60000	1.914854	0.83557	0.4034	0.87143	-2.87059	4.666700
MCN4-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.77622	-3.98984	5.397470
MCN5-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.95321	-3.80902	6.503470
MCN4-COMP	MCN2-COMP-T	1.20000	1.914854	0.62668	0.5309	1.19611	-3.42514	4.666700
MCN3-COMP	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.93734	-3.62674	5.397470
MCN5-COMP	MCN3-COMP	0.40000	1.914854	0.20889	0.8345	0.43162	-3.96670	5.172700
MCN5-COMP	MCN4-COMP	0.40000	1.914854	0.20889	0.8345	0.42342	-4.05529	5.727250
MCN4-COMP	MCN3-COMP	0.20000	1.909043	0.10476	0.9166	0.09902	-4.62125	4.066700
MCN2-COMP-T	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.10258	-3.84460	4.201360
LA3-REF	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.55054	-4.76250	4.393460
MCN4-COMP	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-1.37026	-6.07955	4.745670
MCN4-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-0.87560	-6.26105	3.304200
MCN5-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-0.53380	-5.60650	4.410200
MCN5-COMP	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.94684	-5.42555	5.169090
MCN3-COMP	LA3-REF	-1.40000	1.909043	-0.73335	0.4633	-0.83182	-5.70650	3.304200
MCN3-COMP	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-1.45830	-5.52500	3.228560
MCN2-COMP-T	BIN-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-2.18447	-6.12500	2.204010
MCN2-COMP-T	LA3-REF	-2.80000	1.914854	-1.46225	0.1437	-1.36250	-6.30650	2.108090



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB170**



Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	4.65455	4.65455	4.788815	6.54545	9.43968	9.51351	9.51351
BIMW-COMP-T-M	4.75472	4.75472	5.21236	8.25	8.984755	9.21951	9.21951
BIN-COMP-T	4.72131	4.72131	6.18674	8.82759	11.51725	12	12
LA3-REF	6.63158	6.63158	6.85954	7.15909	10.65596	12.1935	12.1935
MCN1-COMP-T	4.29545	4.29545	5.01136	6.42857	10.52215	10.8281	10.8281
MCN2-COMP-T	5.48571	5.48571	5.6281	6.12766	8.26144	9.41177	9.41177
MCN3-COMP	5.625	5.625	5.9625	7.0875	9.27907	10.5	10.5
MCN4-COMP	5.33333	5.33333	5.575755	9.14286	10.22224	10.6667	10.6667
MCN5-COMP	5.43396	5.43396	5.91698	7.52941	10.84675	11.6364	11.6364
TB	7.27273	7.27273	7.89312	9.69697	35.3132	60.4651	60.4651

**Oneway Anova**

**Summary of Fit**

Rsquare	0.207742
Adj Rsquare	0.029484
Root Mean Square Error	7.633869
Mean of Response	8.899013
Observations (or Sum Wgts)	50

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB170**

**Oneway Anova**

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	9	611.2341	67.9149	1.1654	0.3427
Error	40	2331.0384	58.2760		
C. Total	49	2942.2725			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	7.0005	3.4140	0.10	13.900
BIMW-COMP-T-M	5	7.3288	3.4140	0.43	14.229
BIN-COMP-T	5	8.8471	3.4140	1.95	15.747
LA3-REF	5	8.4380	3.4140	1.54	15.338
MCN1-COMP-T	5	7.4991	3.4140	0.60	14.399
MCN2-COMP-T	5	6.7813	3.4140	-0.12	13.681
MCN3-COMP	5	7.5141	3.4140	0.61	14.414
MCN4-COMP	5	8.1478	3.4140	1.25	15.048
MCN5-COMP	5	8.2114	3.4140	1.31	15.111
TB	5	19.2219	3.4140	12.32	26.122

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	7.0005	2.3418	1.047	4.093	9.908
BIMW-COMP-T-M	5	7.3288	1.9888	0.889	4.859	9.798
BIN-COMP-T	5	8.8471	2.8799	1.288	5.271	12.423
LA3-REF	5	8.4380	2.3070	1.032	5.573	11.303
MCN1-COMP-T	5	7.4991	2.8729	1.285	3.932	11.066
MCN2-COMP-T	5	6.7813	1.5934	0.713	4.803	8.760
MCN3-COMP	5	7.5141	1.8998	0.850	5.155	9.873
MCN4-COMP	5	8.1478	2.4156	1.080	5.148	11.147
MCN5-COMP	5	8.2114	2.5786	1.153	5.010	11.413
TB	5	19.2219	23.0829	10.323	-9.439	47.883

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB170**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	-2.79	0.1754
BIN-COMP-T	-13.2	1.0000
LA3-REF	-13.6	1.0000
MCN5-COMP	-13.3	1.0000
MCN4-COMP	-13.3	1.0000
MCN3-COMP	-12.7	1.0000
MCN1-COMP-T	-12.6	1.0000
BIMW-COMP-T-M	-12.5	1.0000
BIME-COMP-T-M	-12.1	1.0000
MCN2-COMP-T	-11.9	0.9999

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	97.000	127.500	19.4000	-0.970
BIMW-COMP-T-M	5	106.000	127.500	21.2000	-0.679
BIN-COMP-T	5	154.000	127.500	30.8000	0.841
LA3-REF	5	143.500	127.500	28.7000	0.501
MCN1-COMP-T	5	116.000	127.500	23.2000	-0.356
MCN2-COMP-T	5	92.000	127.500	18.4000	-1.132
MCN3-COMP	5	114.500	127.500	22.9000	-0.404
MCN4-COMP	5	135.000	127.500	27.0000	0.226
MCN5-COMP	5	135.000	127.500	27.0000	0.226
TB	5	182.000	127.500	36.4000	1.746

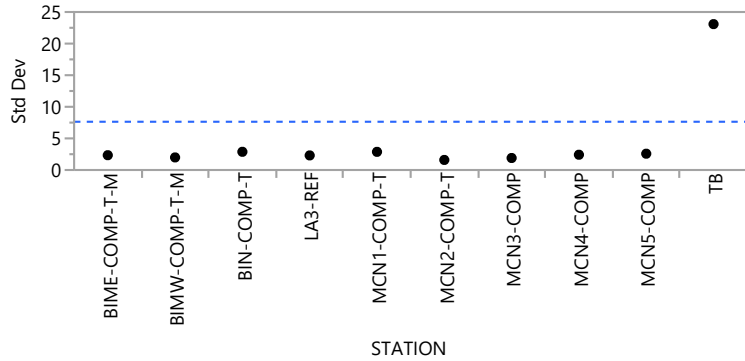
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
6.5838	9	0.6804

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB170**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	2.34181	1.95135	1.86035
BIMW-COMP-T-M	5	1.98876	1.69319	1.50896
BIN-COMP-T	5	2.87993	2.13611	2.13220
LA3-REF	5	2.30702	1.77435	1.51857
MCN1-COMP-T	5	2.87288	2.41843	2.20432
MCN2-COMP-T	5	1.59340	1.18407	1.05334
MCN3-COMP	5	1.89976	1.41195	1.32663
MCN4-COMP	5	2.41559	2.05761	1.85859
MCN5-COMP	5	2.57865	2.10830	1.97191
TB	5	23.08285	16.49727	10.96803

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.2855	9	40	0.2748
Brown-Forsythe	0.8382	9	40	0.5858
Levene	5.3317	9	40	<.0001*
Bartlett	7.9492	9	.	<.0001*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

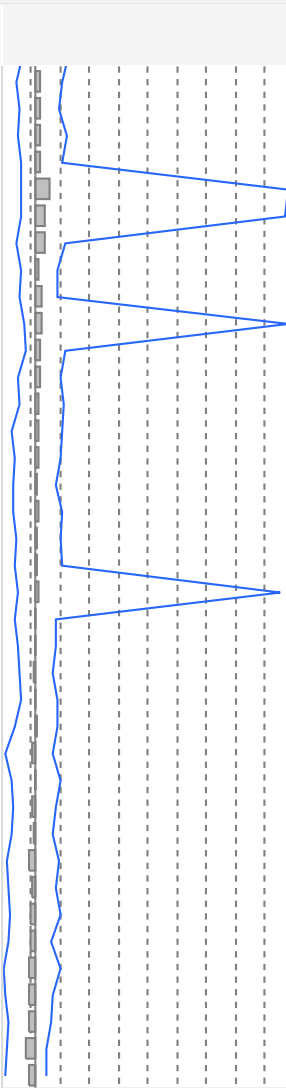
q*		Alpha							
1.95996		0.05							
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
TB	MCN2-COMP-T	4.00000	1.914854	2.08893	0.0367*	3.02780	-0.89826	54.69461	
TB	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	3.15152	-2.09312	55.54202	
TB	BIMW-COMP-T-M	2.80000	1.914854	1.46225	0.1437	1.91130	-1.47727	54.79510	
TB	MCN3-COMP	2.80000	1.914854	1.46225	0.1437	2.21351	-1.98649	54.16510	
TB	LA3-REF	2.40000	1.914854	1.25336	0.2101	1.42601	-3.67999	53.37760	
BIN-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	2.28214	-4.64454	7.07692	
LA3-REF	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.97703	-2.73427	7.27042	



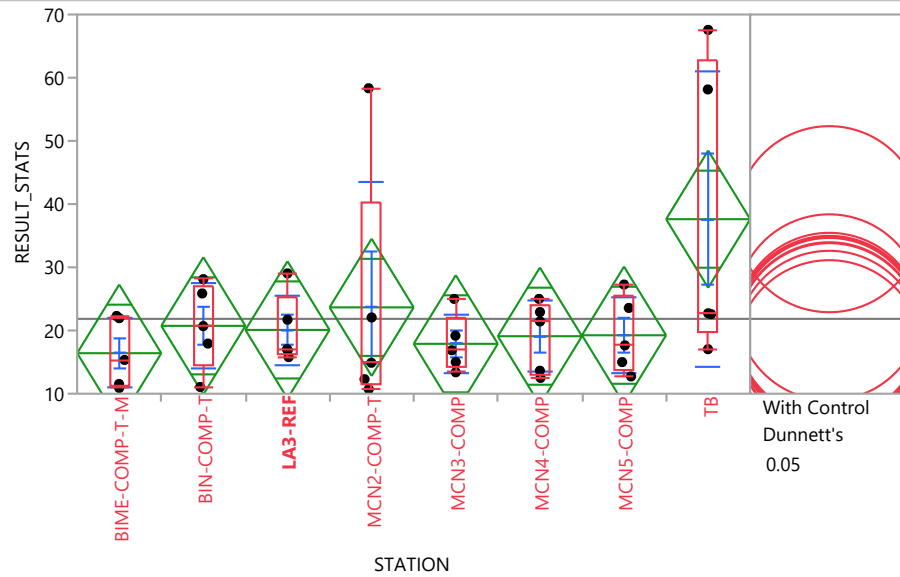
**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB170**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean		Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
		Difference	Std Err Dif						
MCN4-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.89510	-4.03252	5.74362	
MCN4-COMP	BIMW-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.89286	-3.41667	5.02306	
MCN5-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.98396	-3.93189	6.71332	
MCN5-COMP	MCN2-COMP-T	1.60000	1.914854	0.83557	0.4034	0.91429	-3.01177	5.86591	
TB	MCN1-COMP-T	1.60000	1.914854	0.83557	0.4034	2.97728	-2.94347	54.73783	
TB	MCN5-COMP	1.60000	1.914854	0.83557	0.4034	2.11351	-3.12289	54.06510	
BIN-COMP-T	BIMW-COMP-T-M	1.20000	1.914854	0.62668	0.5309	1.98217	-4.02869	6.33000	
MCN3-COMP	MCN2-COMP-T	1.20000	1.914854	0.62668	0.5309	0.81429	-3.11177	4.72951	
MCN4-COMP	MCN2-COMP-T	1.20000	1.914854	0.62668	0.5309	1.25493	-3.59359	4.89621	
TB	MCN4-COMP	1.20000	1.914854	0.62668	0.5309	1.45455	-2.50505	54.64692	
LA3-REF	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.96158	-2.13201	6.52350	
MCN3-COMP	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.97045	-3.74085	5.57692	
MCN5-COMP	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.83759	-3.31604	5.96640	
MCN1-COMP-T	BIME-COMP-T-M	0.40000	1.914854	0.20889	0.8345	0.80419	-5.07040	5.90502	
MCN1-COMP-T	BIMW-COMP-T-M	0.40000	1.914854	0.20889	0.8345	0.75857	-4.45455	5.46148	
MCN4-COMP	MCN3-COMP	0.40000	1.914854	0.20889	0.8345	0.19318	-4.68182	4.36670	
MCN5-COMP	MCN1-COMP-T	0.40000	1.914854	0.20889	0.8345	0.80830	-4.78224	5.90913	
MCN5-COMP	MCN3-COMP	0.40000	1.914854	0.20889	0.8345	0.44191	-4.10000	5.33640	
MCN5-COMP	MCN4-COMP	0.40000	1.914854	0.20889	0.8345	0.27932	-4.34382	5.81822	
TB	BIN-COMP-T	0.40000	1.914854	0.20889	0.8345	0.86938	-3.76177	52.81293	
BIMW-COMP-T-M	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.14634	-4.61113	4.29643	
MCN2-COMP-T	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.04592	-3.88014	4.48869	
MCN2-COMP-T	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.18429	-3.44902	3.74177	
MCN3-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.04500	-3.12500	4.83000	
MCN3-COMP	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	0.28380	-4.59120	4.77273	
MCN4-COMP	LA3-REF	0.00000	1.914854	0.00000	1.0000	-0.81340	-6.37532	3.57920	
MCN4-COMP	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	0.09091	-5.00992	5.48233	
LA3-REF	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.56467	-4.91250	4.54133	
MCN2-COMP-T	MCN1-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.30091	-5.05761	3.68450	
MCN4-COMP	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-1.25672	-6.18182	5.05647	
MCN5-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-0.55710	-5.79350	4.54890	
MCN5-COMP	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.97740	-5.60054	5.33579	
MCN3-COMP	LA3-REF	-1.40000	1.909043	-0.73335	0.4633	-0.85909	-5.89350	3.41250	
MCN1-COMP-T	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-1.22360	-6.73905	5.49489	
MCN1-COMP-T	LA3-REF	-1.60000	1.914854	-0.83557	0.4034	-1.36023	-6.46623	3.74060	
MCN3-COMP	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-1.50000	-5.70000	3.33683	
MCN2-COMP-T	BIN-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-2.16646	-6.22951	2.38980	
MCN2-COMP-T	LA3-REF	-2.40000	1.914854	-1.25336	0.2101	-1.31701	-6.42301	2.32427	



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB174**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	10.9091	10.9091	11.2238	15.3409	22.12425	22.2973	22.2973
BIN-COMP-T	11.0656	11.0656	14.5002	20.6897	26.99355	28.125	28.125
LA3-REF	15.7895	15.7895	16.33225	17.0455	25.3714	29.0323	29.0323
MCN2-COMP-T	10.7143	10.7143	11.5047	14.8936	40.19605	58.3333	58.3333
MCN3-COMP	13.3929	13.3929	14.19645	16.875	22.093	25	25
MCN4-COMP	12.5	12.5	13.0682	21.4286	23.95835	25	25
MCN5-COMP	12.7358	12.7358	13.8679	17.6471	25.42205	27.2727	27.2727
TB	17.0455	17.0455	19.81305	22.7273	62.85355	67.5676	67.5676

**Oneway Anova**

**Summary of Fit**

Rsquare	0.257696
Adj Rsquare	0.095317
Root Mean Square Error	11.92054
Mean of Response	21.84213
Observations (or Sum Wgts)	40

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	7	1578.5881	225.513	1.5870	0.1750
Error	32	4547.1805	142.099		
C. Total	39	6125.7686			

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB174**

**Oneway Anova**

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	16.4074	5.3310	5.548	27.266
BIN-COMP-T	5	20.7354	5.3310	9.876	31.594
LA3-REF	5	20.0906	5.3310	9.232	30.950
MCN2-COMP-T	5	23.6590	5.3310	12.800	34.518
MCN3-COMP	5	17.8908	5.3310	7.032	28.750
MCN4-COMP	5	19.0963	5.3310	8.237	29.955
MCN5-COMP	5	19.2454	5.3310	8.386	30.104
TB	5	37.6121	5.3310	26.753	48.471

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	16.4074	5.4886	2.455	9.59	23.222
BIN-COMP-T	5	20.7354	6.7498	3.019	12.35	29.116
LA3-REF	5	20.0906	5.4930	2.457	13.27	26.911
MCN2-COMP-T	5	23.6590	19.8646	8.884	-1.01	48.324
MCN3-COMP	5	17.8908	4.5232	2.023	12.27	23.507
MCN4-COMP	5	19.0963	5.6615	2.532	12.07	26.126
MCN5-COMP	5	19.2454	6.0437	2.703	11.74	26.750
TB	5	37.6121	23.3944	10.462	8.56	66.660

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.76173	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	-3.3	0.1282
MCN2-COMP-T	-17.3	0.9967
BIN-COMP-T	-20.2	1.0000
LA3-REF	-20.8	1.0000
MCN5-COMP	-20	1.0000
MCN4-COMP	-19.8	1.0000
MCN3-COMP	-18.6	0.9998
BIME-COMP-T-M	-17.1	0.9960

Positive values show pairs of means that are significantly different.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB174**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

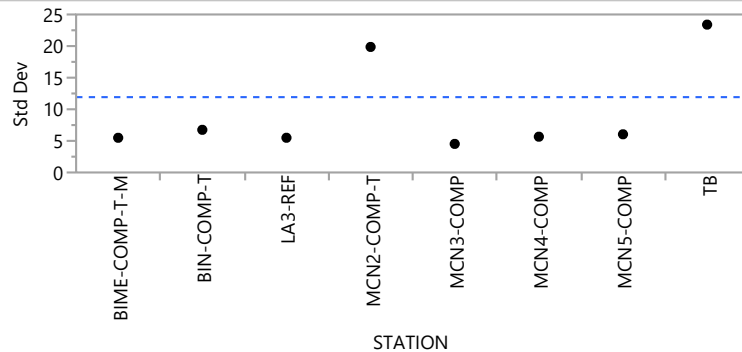
Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	71.000	102.500	14.2000	-1.268
BIN-COMP-T	5	115.000	102.500	23.0000	0.491
LA3-REF	5	108.000	102.500	21.6000	0.205
MCN2-COMP-T	5	81.000	102.500	16.2000	-0.859
MCN3-COMP	5	88.500	102.500	17.7000	-0.552
MCN4-COMP	5	100.500	102.500	20.1000	-0.061
MCN5-COMP	5	103.500	102.500	20.7000	0.020
TB	5	152.500	102.500	30.5000	2.025

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
6.3565	7	0.4988

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif	MeanAbsDif
			to Mean	to Median
BIME-COMP-T-M	5	5.48861	4.57348	4.36018
BIN-COMP-T	5	6.74981	5.00649	4.99734
LA3-REF	5	5.49296	4.22467	3.61566
MCN2-COMP-T	5	19.86456	13.86971	11.47654
MCN3-COMP	5	4.52322	3.36178	3.15862
MCN4-COMP	5	5.66150	4.82251	4.35606
MCN5-COMP	5	6.04369	4.94132	4.62166
TB	5	23.39441	20.19316	17.21620

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB174**

**Tests that the Variances are Equal**

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	2.4516	7	32	0.0393*
Brown-Forsythe	1.1475	7	32	0.3595
Levene	6.3220	7	32	0.0001*
Bartlett	3.4765	7	.	0.0010*

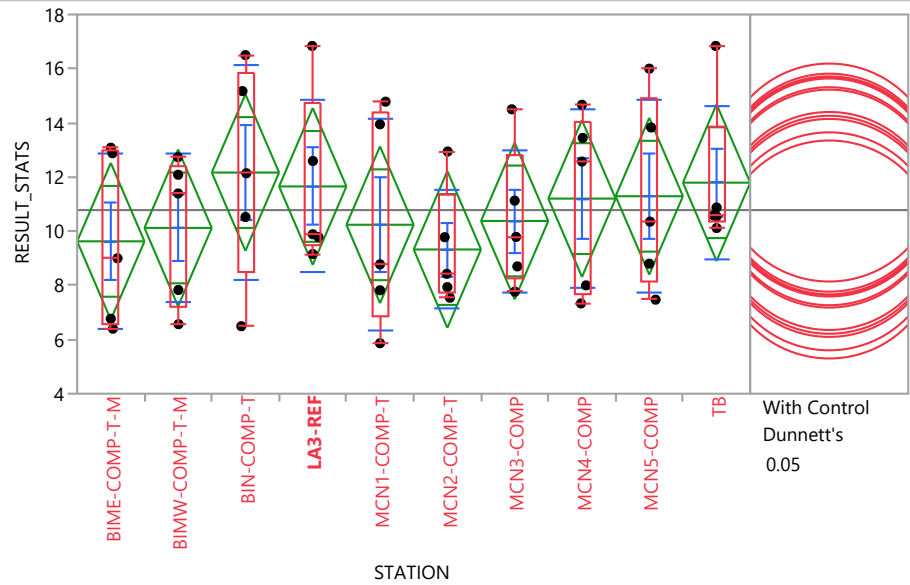
Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q\* Alpha  
1.95996 0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
TB	BIME-COMP-T-M	4.00000	1.914854	2.08893	0.0367*	11.1888	-4.9057	56.02910	
TB	MCN3-COMP	3.20000	1.914854	1.67115	0.0947	7.7273	-2.4194	52.56760	
TB	LA3-REF	3.00000	1.909043	1.57147	0.1161	5.8523	-6.4517	50.69260	
TB	MCN2-COMP-T	2.80000	1.914854	1.46225	0.1437	9.2343	-35.7527	55.27250	
TB	MCN4-COMP	2.00000	1.914854	1.04447	0.2963	9.0909	-5.8712	53.93120	
TB	MCN5-COMP	2.00000	1.914854	1.04447	0.2963	7.7273	-6.5259	52.56760	
BIN-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	5.3488	-10.8856	16.58650	
LA3-REF	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	4.8804	-6.1617	17.49380	
MCN4-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	2.0979	-9.4512	13.46150	
MCN5-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	2.3062	-9.2154	15.73420	
TB	BIN-COMP-T	1.60000	1.914854	0.83557	0.4034	5.9799	-8.8166	49.63280	
MCN5-COMP	MCN2-COMP-T	1.20000	1.914854	0.62668	0.5309	2.0215	-43.3333	14.97760	
MCN3-COMP	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	2.4838	-8.5583	13.46150	
MCN3-COMP	MCN2-COMP-T	0.80000	1.914854	0.41779	0.6761	1.9814	-43.3333	12.70490	
MCN4-COMP	MCN2-COMP-T	0.80000	1.914854	0.41779	0.6761	1.3413	-44.6969	12.70490	
MCN5-COMP	MCN4-COMP	0.40000	1.914854	0.20889	0.8345	0.6547	-10.1809	13.63630	
MCN4-COMP	MCN3-COMP	0.20000	1.909043	0.10476	0.9166	0.2435	-11.3636	10.00000	
MCN5-COMP	MCN3-COMP	0.20000	1.909043	0.10476	0.9166	0.7721	-10.0000	12.27270	
MCN2-COMP-T	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.1076	-11.2369	46.79480	
LA3-REF	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-1.0598	-11.2500	11.09750	
MCN4-COMP	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-2.9454	-14.4886	11.85110	
MCN4-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-2.1531	-15.3959	8.12500	
MCN5-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-1.7596	-14.0323	10.39770	
MCN2-COMP-T	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-3.8033	-15.8299	40.39850	
MCN5-COMP	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-2.2907	-13.1263	12.50580	
MCN2-COMP-T	LA3-REF	-1.20000	1.914854	-0.62668	0.5309	-3.4944	-16.7372	41.45830	
MCN3-COMP	LA3-REF	-1.40000	1.909043	-0.73335	0.4633	-2.0455	-14.0323	8.12500	
MCN3-COMP	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-3.1250	-13.1250	8.12040	

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB177**



Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	6.4	6.4	6.584615	9	12.97955	13.0811	13.0811
BIMW-COMP-T-M	6.56604	6.56604	7.19802	11.3929	12.4075	12.7317	12.7317
BIN-COMP-T	6.4918	6.4918	8.50675	12.1379	15.8362	16.5	16.5
LA3-REF	9.1579	9.1579	9.4727	9.88636	14.7154	16.8387	16.8387
MCN1-COMP-T	5.86364	5.86364	6.84091	8.77551	14.3636	14.7813	14.7813
MCN2-COMP-T	7.54286	7.54286	7.738645	8.42553	11.35949	12.9412	12.9412
MCN3-COMP	7.76786	7.76786	8.23393	9.7875	12.81395	14.5	14.5
MCN4-COMP	7.33333	7.33333	7.666665	12.5714	14.05555	14.6667	14.6667
MCN5-COMP	7.4717	7.4717	8.13585	10.3529	14.9143	16	16
TB	10.1163	10.1163	10.3309	10.5811	13.85685	16.8387	16.8387

**Oneway Anova**

**Summary of Fit**

Rsquare	0.09382
Adj Rsquare	-0.11007
Root Mean Square Error	3.20066
Mean of Response	10.77868
Observations (or Sum Wgts)	50

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB177**

**Oneway Anova**

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	9	42.42493	4.7139	0.4602	0.8924
Error	40	409.76902	10.2442		
C. Total	49	452.19396			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	9.6257	1.4314	6.7327	12.519
BIMW-COMP-T-M	5	10.1208	1.4314	7.2279	13.014
BIN-COMP-T	5	12.1648	1.4314	9.2718	15.058
LA3-REF	5	11.6525	1.4314	8.7596	14.545
MCN1-COMP-T	5	10.2369	1.4314	7.3440	13.130
MCN2-COMP-T	5	9.3244	1.4314	6.4314	12.217
MCN3-COMP	5	10.3767	1.4314	7.4837	13.270
MCN4-COMP	5	11.2032	1.4314	8.3102	14.096
MCN5-COMP	5	11.2906	1.4314	8.3977	14.184
TB	5	11.7913	1.4314	8.8984	14.684

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	9.6257	3.21999	1.4400	5.6275	13.624
BIMW-COMP-T-M	5	10.1208	2.74639	1.2282	6.7107	13.531
BIN-COMP-T	5	12.1648	3.95989	1.7709	7.2479	17.082
LA3-REF	5	11.6525	3.18591	1.4248	7.6967	15.608
MCN1-COMP-T	5	10.2369	3.92172	1.7538	5.3674	15.106
MCN2-COMP-T	5	9.3244	2.19093	0.9798	6.6040	12.045
MCN3-COMP	5	10.3767	2.62347	1.1733	7.1192	13.634
MCN4-COMP	5	11.2032	3.32141	1.4854	7.0791	15.327
MCN5-COMP	5	11.2906	3.54564	1.5857	6.8881	15.693
TB	5	11.7913	2.83452	1.2676	8.2718	15.311

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB177****Means Comparisons****Comparisons with a control using Dunnett's Method****LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
BIN-COMP-T	-5.18	1.0000
TB	-5.55	1.0000
LA3-REF	-5.69	1.0000
MCN5-COMP	-5.33	1.0000
MCN4-COMP	-5.24	1.0000
MCN3-COMP	-4.42	0.9935
MCN1-COMP-T	-4.28	0.9871
BIMW-COMP-T-M	-4.16	0.9789
BIME-COMP-T-M	-3.66	0.9032
MCN2-COMP-T	-3.36	0.8230

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	101.000	127.500	20.2000	-0.841
BIMW-COMP-T-M	5	114.000	127.500	22.8000	-0.420
BIN-COMP-T	5	156.000	127.500	31.2000	0.906
LA3-REF	5	148.000	127.500	29.6000	0.647
MCN1-COMP-T	5	114.000	127.500	22.8000	-0.420
MCN2-COMP-T	5	92.000	127.500	18.4000	-1.132
MCN3-COMP	5	118.500	127.500	23.7000	-0.275
MCN4-COMP	5	137.000	127.500	27.4000	0.291
MCN5-COMP	5	137.000	127.500	27.4000	0.291
TB	5	157.500	127.500	31.5000	0.954

**1-Way Test, ChiSquare Approximation**

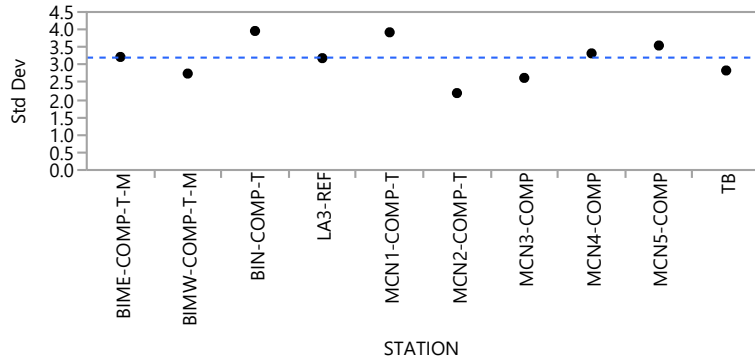
ChiSquare	DF	Prob>ChiSq
4.4437	9	0.8799

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB177**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	3.219989	2.683107	2.557974
BIMW-COMP-T-M	5	2.746385	2.338214	2.083792
BIN-COMP-T	5	3.959894	2.937152	2.931780
LA3-REF	5	3.185907	2.450310	2.097080
MCN1-COMP-T	5	3.921719	3.301355	3.009076
MCN2-COMP-T	5	2.190928	1.628104	1.448338
MCN3-COMP	5	2.623472	1.949838	1.832008
MCN4-COMP	5	3.321414	2.829201	2.555554
MCN5-COMP	5	3.545640	2.898928	2.711380
TB	5	2.834523	2.018952	1.410380

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	0.4428	9	40	0.9032
Brown-Forsythe	0.3321	9	40	0.9590
Levene	0.6492	9	40	0.7483
Bartlett	0.2407	9	.	0.9886

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

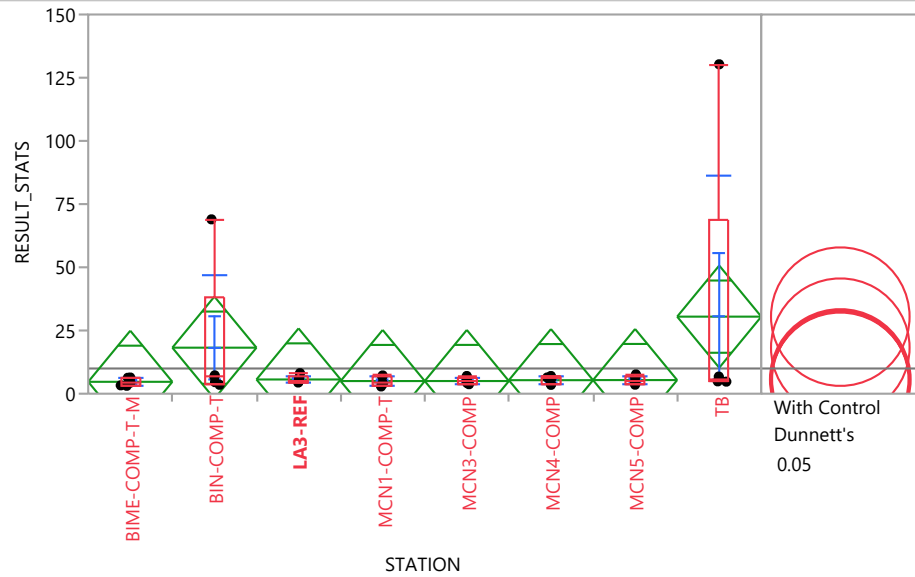
q*		Alpha							
1.95996		0.05							
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
TB	MCN2-COMP-T	3.20000	1.914854	1.67115	0.0947	2.44947	-2.39570	8.90427	
BIN-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	3.13790	-6.38620	9.73077	
LA3-REF	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	2.75790	-3.72010	10.06947	
MCN3-COMP	MCN2-COMP-T	1.60000	1.914854	0.83557	0.4034	1.15714	-4.24120	6.56557	
MCN4-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.23077	-5.54467	7.89747	
MCN4-COMP	BIMW-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.17850	-4.74997	6.87836	
MCN5-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.35290	-5.40630	9.23077	

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB177**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean		Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
		Difference	Std Err Dif						
MCN5-COMP	MCN2-COMP-T	1.60000	1.914854	0.83557	0.4034	1.25714	-4.14120	8.06557	
TB	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	3.34707	-2.76170	10.06947	
TB	MCN1-COMP-T	1.60000	1.914854	0.83557	0.4034	2.09949	-4.23580	9.02052	
TB	MCN3-COMP	1.60000	1.914854	0.83557	0.4034	1.41630	-3.95450	8.13870	
TB	LA3-REF	1.40000	1.909043	0.73335	0.4633	0.69474	-6.29320	7.05120	
BIN-COMP-T	BIMW-COMP-T-M	1.20000	1.914854	0.62668	0.5309	2.69170	-5.59150	8.67000	
MCN4-COMP	MCN2-COMP-T	1.20000	1.914854	0.62668	0.5309	1.72550	-4.94120	6.73227	
TB	MCN5-COMP	1.20000	1.914854	0.62668	0.5309	0.83870	-5.45450	8.03870	
LA3-REF	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	1.32790	-2.94420	9.00870	
MCN3-COMP	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	1.36786	-5.11014	7.73077	
MCN5-COMP	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	1.09690	-4.61160	8.17000	
MCN5-COMP	MCN1-COMP-T	0.80000	1.914854	0.41779	0.6761	1.21870	-6.47420	8.18182	
MCN1-COMP-T	BIME-COMP-T-M	0.40000	1.914854	0.20889	0.8345	1.04895	-7.01436	8.01207	
MCN4-COMP	MCN3-COMP	0.40000	1.914854	0.20889	0.8345	0.23214	-6.50000	5.96670	
MCN5-COMP	MCN3-COMP	0.40000	1.914854	0.20889	0.8345	0.56540	-5.70000	7.30000	
MCN5-COMP	MCN4-COMP	0.40000	1.914854	0.20889	0.8345	0.38420	-5.97270	8.00000	
BIMW-COMP-T-M	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.14630	-6.31196	5.96247	
MCN1-COMP-T	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.94551	-6.21966	7.37986	
MCN2-COMP-T	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.06320	-5.33514	6.17197	
MCN2-COMP-T	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.28714	-4.79727	5.11120	
MCN3-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.06214	-4.31544	6.67000	
MCN3-COMP	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	0.55410	-6.17804	6.68182	
MCN4-COMP	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	0.18182	-6.78130	7.58076	
TB	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	2.28630	-2.18620	9.00870	
TB	BIN-COMP-T	0.00000	1.914854	0.00000	1.0000	-0.40540	-5.95450	6.31700	
TB	MCN4-COMP	0.00000	1.914854	0.00000	1.0000	2.11630	-4.12120	8.83870	
LA3-REF	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.73420	-6.71250	6.31700	
MCN2-COMP-T	MCN1-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.34998	-6.84687	5.12302	
MCN4-COMP	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-1.72800	-8.50000	6.95260	
MCN4-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-1.15790	-8.83870	4.87920	
MCN5-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-0.83870	-8.03870	6.21250	
MCN5-COMP	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-1.34380	-7.70070	7.33680	
MCN3-COMP	LA3-REF	-1.40000	1.909043	-0.73335	0.4633	-1.18636	-8.13870	4.71250	
MCN1-COMP-T	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-1.74619	-9.30876	7.45410	
MCN1-COMP-T	LA3-REF	-1.60000	1.914854	-0.83557	0.4034	-1.96932	-9.02052	4.99380	
MCN3-COMP	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-2.00000	-7.80000	4.63610	
MCN2-COMP-T	BIN-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-2.97884	-8.56557	3.28598	
MCN2-COMP-T	LA3-REF	-2.80000	1.914854	-1.46225	0.1437	-1.85307	-8.90427	3.15370	

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB180**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	3.12727	3.12727	3.21748	4.39773	6.342285	6.39189	6.39189
BIN-COMP-T	3.52459	3.52459	4.044905	6.71875	38.10344	68.9655	68.9655
LA3-REF	4.42105	4.42105	4.573025	4.77273	7.10399	8.12903	8.12903
MCN1-COMP-T	2.86364	2.86364	3.34091	4.28571	7.01478	7.21875	7.21875
MCN3-COMP	3.75	3.75	3.975	4.725	6.186045	7	7
MCN4-COMP	3.5	3.5	3.65909	6	6.708335	7	7
MCN5-COMP	3.56604	3.56604	3.88302	4.94118	7.11818	7.63636	7.63636
TB	4.77273	4.77273	4.828225	5.67568	68.5386	130.303	130.303

**Oneway Anova**

**Summary of Fit**

Rsquare	0.165961
Adj Rsquare	-0.01649
Root Mean Square Error	22.18542
Mean of Response	9.969785
Observations (or Sum Wgts)	40

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	7	3134.037	447.720	0.9096	0.5115
Error	32	15750.165	492.193		
C. Total	39	18884.203			

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB180**

**Oneway Anova**

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	4.7035	9.9216	-15.51	24.913
BIN-COMP-T	5	18.2031	9.9216	-2.01	38.413
LA3-REF	5	5.6254	9.9216	-14.58	25.835
MCN1-COMP-T	5	4.9994	9.9216	-15.21	25.209
MCN3-COMP	5	5.0094	9.9216	-15.20	25.219
MCN4-COMP	5	5.3470	9.9216	-14.86	25.557
MCN5-COMP	5	5.3887	9.9216	-14.82	25.598
TB	5	30.4819	9.9216	10.27	50.692

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	4.7035	1.5734	0.704	2.75	6.657
BIN-COMP-T	5	18.2031	28.4180	12.709	-17.08	53.489
LA3-REF	5	5.6254	1.5380	0.688	3.72	7.535
MCN1-COMP-T	5	4.9994	1.9153	0.857	2.62	7.378
MCN3-COMP	5	5.0094	1.2665	0.566	3.44	6.582
MCN4-COMP	5	5.3470	1.5852	0.709	3.38	7.315
MCN5-COMP	5	5.3887	1.6922	0.757	3.29	7.490
TB	5	30.4819	55.8074	24.958	-38.81	99.776

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.76173	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	-13.9	0.3489
BIN-COMP-T	-26.2	0.9061
LA3-REF	-38.8	1.0000
MCN5-COMP	-38.5	1.0000
MCN4-COMP	-38.5	1.0000
MCN3-COMP	-38.1	1.0000
MCN1-COMP-T	-38.1	1.0000
BIME-COMP-T-M	-37.8	1.0000

Positive values show pairs of means that are significantly different.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB180**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

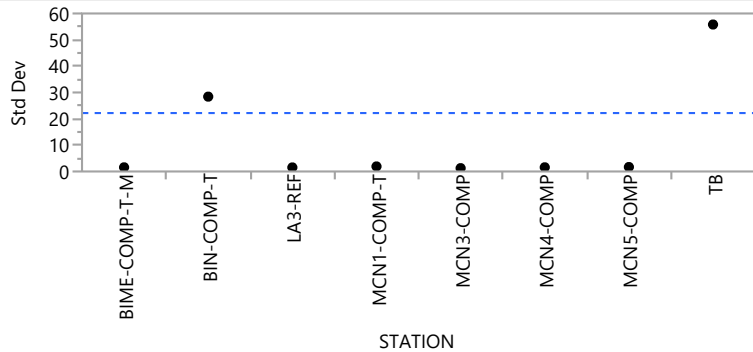
Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	71.000	102.500	14.2000	-1.268
BIN-COMP-T	5	125.000	102.500	25.0000	0.900
LA3-REF	5	112.000	102.500	22.4000	0.368
MCN1-COMP-T	5	88.500	102.500	17.7000	-0.552
MCN3-COMP	5	89.500	102.500	17.9000	-0.511
MCN4-COMP	5	98.000	102.500	19.6000	-0.164
MCN5-COMP	5	103.500	102.500	20.7000	0.020
TB	5	132.500	102.500	26.5000	1.207

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
4.2093	7	0.7554

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif	
			to Mean	to Median
BIME-COMP-T-M	5	1.57341	1.31107	1.24992
BIN-COMP-T	5	28.41796	20.30496	13.62341
LA3-REF	5	1.53803	1.18291	1.01239
MCN1-COMP-T	5	1.91526	1.61229	1.46955
MCN3-COMP	5	1.26650	0.94130	0.88442
MCN4-COMP	5	1.58522	1.35030	1.21970
MCN5-COMP	5	1.69223	1.38357	1.29406
TB	5	55.80745	39.92845	25.48415

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB180**

**Tests that the Variances are Equal**

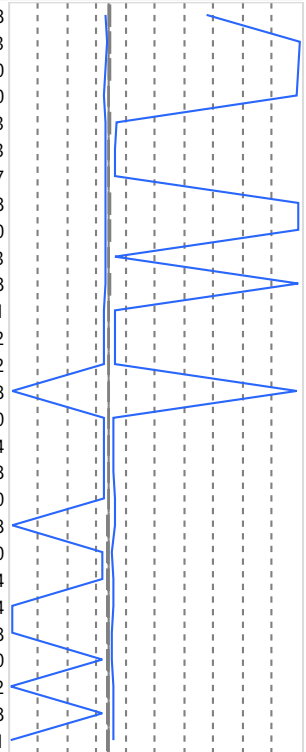
Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[5]	1.2143	7	32	0.3236
Brown-Forsythe	0.8625	7	32	0.5459
Levene	5.8041	7	32	0.0002*
Bartlett	15.3286	7	.	<.0001*

Warning: Small sample sizes. Use Caution.

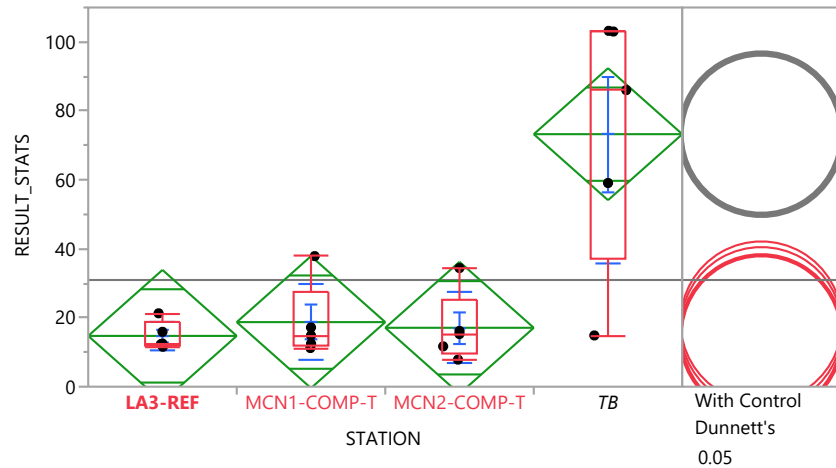
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q\* 1.95996  
Alpha 0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
BIN-COMP-T	BIME-COMP-T-M	2.80000	1.914854	1.46225	0.1437	1.25753	-2.7681	65.6578
TB	BIME-COMP-T-M	2.40000	1.914854	1.25336	0.2101	1.57603	-1.5199	126.9953
TB	MCN3-COMP	2.40000	1.914854	1.25336	0.2101	1.02273	-2.1163	126.1030
TB	LA3-REF	1.80000	1.909043	0.94288	0.3457	0.46267	-3.2453	125.5780
LA3-REF	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.29378	-1.8716	4.8213
MCN4-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.51049	-2.7927	3.6923
MCN5-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.54345	-2.7266	4.3287
TB	MCN1-COMP-T	1.60000	1.914854	0.83557	0.4034	1.38997	-2.3350	126.4848
TB	MCN5-COMP	1.20000	1.914854	0.62668	0.5309	0.73450	-2.7526	126.1030
MCN3-COMP	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.60811	-2.5427	3.6923
TB	MCN4-COMP	0.80000	1.914854	0.41779	0.6761	0.95455	-2.1163	126.4848
MCN1-COMP-T	BIME-COMP-T-M	0.40000	1.914854	0.20889	0.8345	0.51049	-3.4290	3.9111
MCN5-COMP	MCN1-COMP-T	0.40000	1.914854	0.20889	0.8345	0.41761	-3.2448	3.8182
MCN5-COMP	MCN4-COMP	0.40000	1.914854	0.20889	0.8345	0.18333	-2.8506	3.8182
TB	BIN-COMP-T	0.40000	1.914854	0.20889	0.8345	0.20751	-64.0818	125.7378
MCN4-COMP	MCN3-COMP	0.20000	1.909043	0.10476	0.9166	0.06818	-3.1818	2.8000
MCN5-COMP	MCN3-COMP	0.20000	1.909043	0.10476	0.9166	0.21618	-2.8000	3.4364
MCN3-COMP	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	0.18919	-3.0608	3.1818
MCN4-COMP	MCN1-COMP-T	0.00000	1.909043	0.00000	1.0000	0.00000	-3.4006	3.5530
LA3-REF	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.63980	-64.2405	3.5638
MCN4-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-0.60287	-4.3109	2.2750
MCN5-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-0.49267	-3.9290	2.9114
MCN5-COMP	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.64138	-64.7655	3.0754
MCN3-COMP	BIN-COMP-T	-1.20000	1.914854	-0.62668	0.5309	-1.34666	-64.7655	2.4348
MCN3-COMP	LA3-REF	-1.40000	1.909043	-0.73335	0.4633	-0.57273	-3.9290	2.2750
MCN1-COMP-T	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-0.74704	-65.1473	3.2862
MCN1-COMP-T	LA3-REF	-1.60000	1.914854	-0.83557	0.4034	-0.90682	-4.3109	2.4938
MCN4-COMP	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-0.74704	-65.1473	2.8921



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB183**



Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
LA3-REF	11.5789	11.5789	11.97695	12.5	18.6057	21.2903	21.2903
MCN1-COMP-T	11.2245	11.2245	11.86225	14.8649	27.53315	37.8788	37.8788
MCN2-COMP-T	7.85714	7.85714	9.77962	15.2778	25.30135	34.4262	34.4262
TB	14.8649	14.8649	36.9779	86.0465	103.128	103.226	103.226

**Oneway Anova**

**Summary of Fit**

Rsquare	0.647315
Adj Rsquare	0.581186
Root Mean Square Error	20.18886
Mean of Response	30.95095
Observations (or Sum Wgts)	20

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	3	11969.383	3989.79	9.7887	0.0007*
Error	16	6521.442	407.59		
C. Total	19	18490.825			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
LA3-REF	5	14.7331	9.0287	-4.41	33.873
MCN1-COMP-T	5	18.7311	9.0287	-0.41	37.871
MCN2-COMP-T	5	17.0879	9.0287	-2.05	36.228
TB	5	73.2517	9.0287	54.11	92.392

Std Error uses a pooled estimate of error variance

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB183**

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
LA3-REF	5	14.7331	4.0282	1.801	9.731	19.73
MCN1-COMP-T	5	18.7311	10.9446	4.895	5.142	32.32
MCN2-COMP-T	5	17.0879	10.2340	4.577	4.381	29.80
TB	5	73.2517	37.2775	16.671	26.965	119.54

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.59232	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	25.42	0.0009*
MCN1-COMP-T	-29.1	0.9788
MCN2-COMP-T	-30.7	0.9954
LA3-REF	-33.1	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
LA3-REF	5	39.500	52.500	7.9000	-1.092
MCN1-COMP-T	5	46.000	52.500	9.2000	-0.524
MCN2-COMP-T	5	42.000	52.500	8.4000	-0.874
TB	5	82.500	52.500	16.5000	2.577

**1-Way Test, ChiSquare Approximation**

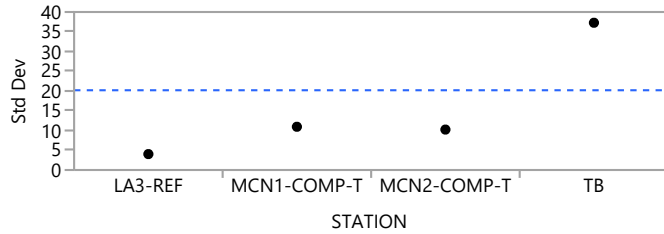
ChiSquare	DF	Prob>ChiSq
6.9905	3	0.0722

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB183**

**Tests that the Variances are Equal**



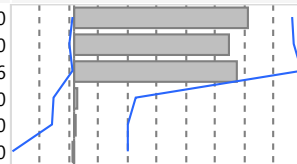
Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
LA3-REF	5	4.02817	3.09811	2.65150
MCN1-COMP-T	5	10.94464	7.65906	6.26836
MCN2-COMP-T	5	10.23398	6.93530	6.20869
TB	5	37.27754	29.01901	26.46004

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	2.2314	3	16	0.1240
Brown-Forsythe	2.6629	3	16	0.0832
Levene	6.3688	3	16	0.0048*
Bartlett	5.5312	3	.	0.0009*

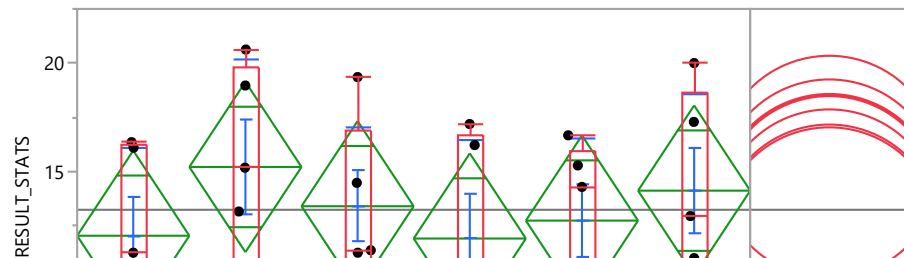
Warning: Small sample sizes. Use Caution.

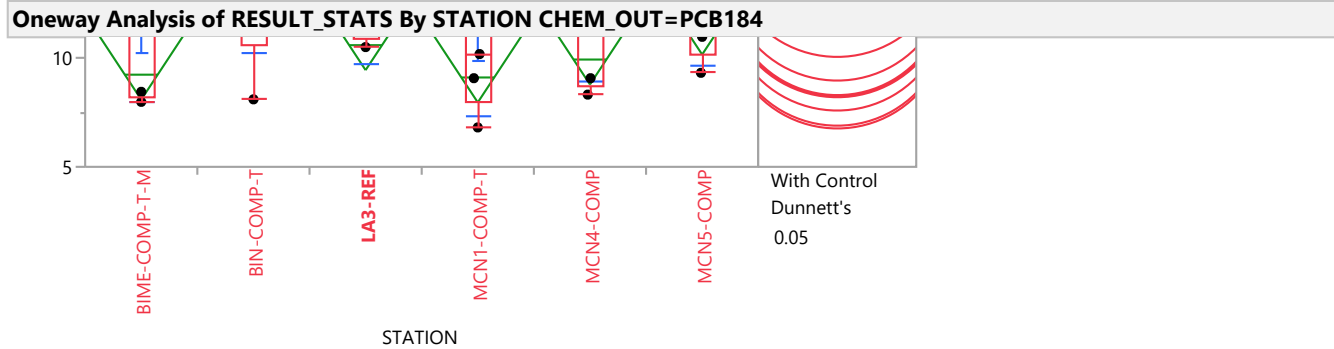
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*	Alpha	Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1.95996	0.05	TB	LA3-REF	4.00000	1.914854	2.08893	0.0367*	73.5465	-1.0562	91.45110
		TB	MCN1-COMP-T	3.80000	1.909043	1.99053	0.0465*	65.3472	-2.3226	91.80550
		TB	MCN2-COMP-T	3.60000	1.914854	1.88004	0.0601	68.7998	-1.3116	95.17286
		MCN1-COMP-T	LA3-REF	0.60000	1.909043	0.31429	0.7533	0.9211	-8.7903	25.50380
		MCN2-COMP-T	LA3-REF	0.00000	1.914854	0.00000	1.0000	0.1232	-9.5882	22.05120
		MCN2-COMP-T	MCN1-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-1.0110	-26.1767	21.92620



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB184**





Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	8	8	8.23077	11.25	16.2245	16.3514	16.3514
BIN-COMP-T	8.11475	8.11475	10.63348	15.1724	19.79525	20.625	20.625
LA3-REF	10.5263	10.5263	10.88815	11.3636	16.91425	19.3548	19.3548
MCN1-COMP-T	6.81818	6.81818	7.954545	10.2041	16.70185	17.1875	17.1875
MCN4-COMP	8.33333	8.33333	8.71212	14.2857	15.97225	16.6667	16.6667
MCN5-COMP	9.33962	9.33962	10.16981	12.9412	18.64285	20	20

**Oneway Anova**

**Summary of Fit**

Rsquare	0.085674
Adj Rsquare	-0.10481
Root Mean Square Error	4.258233
Mean of Response	13.22989
Observations (or Sum Wgts)	30

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	5	40.77729	8.1555	0.4498	0.8092
Error	24	435.18110	18.1325		
C. Total	29	475.95839			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	12.0321	1.9043	8.102	15.962
BIN-COMP-T	5	15.2060	1.9043	11.276	19.136
LA3-REF	5	13.3937	1.9043	9.463	17.324
MCN1-COMP-T	5	11.9034	1.9043	7.973	15.834
MCN4-COMP	5	12.7309	1.9043	8.801	16.661
MCN5-COMP	5	14.1133	1.9043	10.183	18.044

Std Error uses a pooled estimate of error variance

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB184****Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	12.0321	4.02502	1.8000	7.0344	17.030
BIN-COMP-T	5	15.2060	4.94986	2.2136	9.0599	21.352
LA3-REF	5	13.3937	3.66196	1.6377	8.8468	17.941
MCN1-COMP-T	5	11.9034	4.56013	2.0394	6.2412	17.566
MCN4-COMP	5	12.7309	3.77435	1.6879	8.0444	17.417
MCN5-COMP	5	14.1133	4.43204	1.9821	8.6102	19.616

**Means Comparisons****Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.69532	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
BIN-COMP-T	-5.45	0.9396
MCN5-COMP	-6.54	0.9990
LA3-REF	-7.26	1.0000
MCN4-COMP	-6.6	0.9993
BIME-COMP-T-M	-5.9	0.9809
MCN1-COMP-T	-5.77	0.9721

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	63.500	77.500	12.7000	-0.751
BIN-COMP-T	5	95.000	77.500	19.0000	0.946
LA3-REF	5	82.500	77.500	16.5000	0.250
MCN1-COMP-T	5	63.500	77.500	12.7000	-0.751
MCN4-COMP	5	71.500	77.500	14.3000	-0.306
MCN5-COMP	5	89.000	77.500	17.8000	0.612

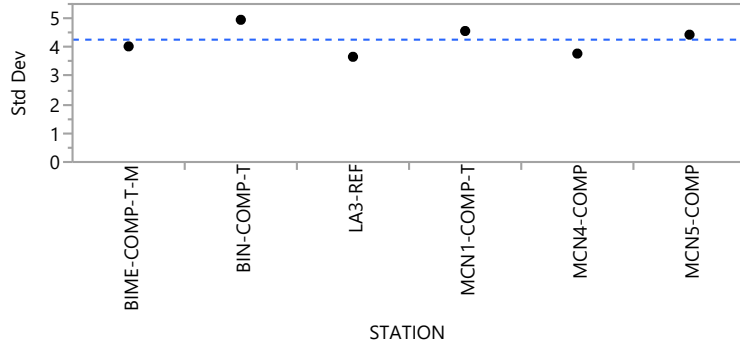
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
2.3017	5	0.8060

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB184**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	4.025017	3.353914	3.197492
BIN-COMP-T	5	4.949860	3.671424	3.664710
LA3-REF	5	3.661962	2.816456	2.410440
MCN1-COMP-T	5	4.560130	3.838778	3.498922
MCN4-COMP	5	3.774347	3.215014	2.904052
MCN5-COMP	5	4.432038	3.623637	3.389216

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	0.2542	5	24	0.9335
Brown-Forsythe	0.1368	5	24	0.9821
Levene	0.2050	5	24	0.9572
Bartlett	0.1003	5	.	0.9921

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

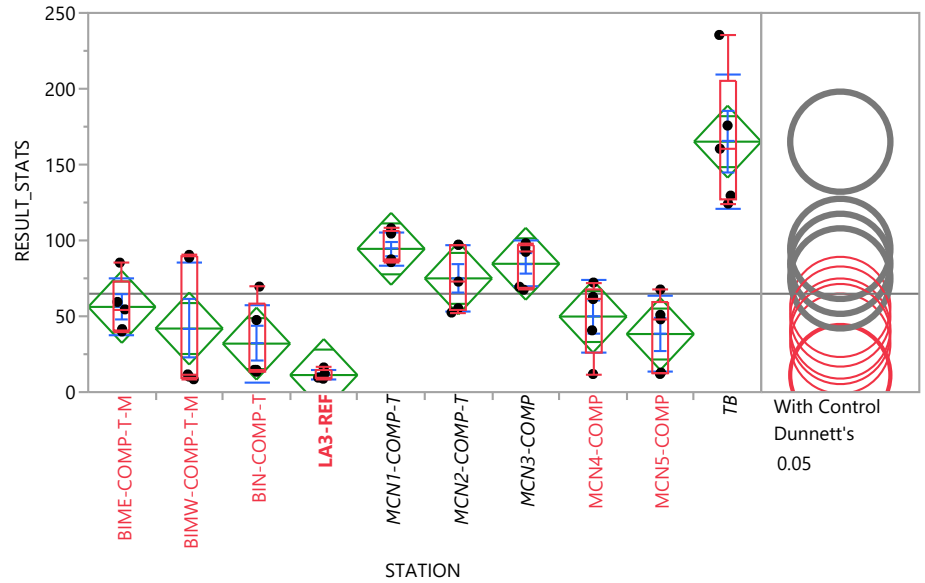
		q*	Alpha										
		1.95996	0.05										
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL					
MCN5-COMP	MCN1-COMP-T	2.00000	1.914854	1.04447	0.2963	2.52144	-6.8766	10.90909					
BIN-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	3.92240	-7.9829	12.16346					
MCN5-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.69120	-6.7580	11.53846					
MCN5-COMP	MCN4-COMP	1.20000	1.914854	0.62668	0.5309	1.90909	-5.9382	10.90909					
LA3-REF	BIME-COMP-T-M	1.00000	1.909043	0.52382	0.6004	2.52630	-5.5713	10.89326					
MCN4-COMP	BIME-COMP-T-M	0.40000	1.914854	0.20889	0.8345	0.33333	-7.7643	8.20516					
MCN1-COMP-T	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.11860	-9.2794	8.72596					
MCN4-COMP	MCN1-COMP-T	0.00000	1.909043	0.00000	1.0000	0.00000	-8.0966	8.45962					
MCN5-COMP	LA3-REF	0.00000	1.914854	0.00000	1.0000	0.47370	-8.3548	8.75000					
MCN4-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-1.43539	-10.2639	5.41670					
MCN4-COMP	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-3.68770	-11.5341	7.16305					
MCN5-COMP	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-1.67980	-9.6259	9.17095					

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB184**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
LA3-REF	BIN-COMP-T	-1.20000	1.914854	-0.62668	0.5309	-1.90220	-9.3750	6.35895	
MCN1-COMP-T	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-3.43750	-12.1473	8.10145	
MCN1-COMP-T	LA3-REF	-1.60000	1.914854	-0.83557	0.4034	-2.15909	-10.2639	5.93750	

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB187**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	40	40	40.76925	54.5455	72.4127	85.3659	85.3659
BIMW-COMP-T-M	8.5	8.5	9.37195	11.6667	89.5777	90.4762	90.4762
BIN-COMP-T	13.4375	13.4375	14.04635	14.6552	58.5531	69.5652	69.5652
LA3-REF	8.84211	8.84211	9.146055	9.54545	14.208	16.2581	16.2581
MCN1-COMP-T	85.7143	85.7143	86.03895	87.5	106.3265	108.108	108.108
MCN2-COMP-T	52.459	52.459	53.88905	72.8571	97.1405	97.2222	97.2222
MCN3-COMP	67.5	67.5	68.4722	92.5	96.78155	98.2143	98.2143
MCN4-COMP	11.9444	11.9444	26.34255	61.3636	67.53965	72.2222	72.2222
MCN5-COMP	12	12	12.4394	48	59.29525	67.6471	67.6471
TB	124.324	124.324	126.9345	160.465	205.621	235.484	235.484

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB187**

**Oneway Anova**

**Summary of Fit**

Rsquare	0.753925
Adj Rsquare	0.698558
Root Mean Square Error	26.26459
Mean of Response	64.85822
Observations (or Sum Wgts)	50

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	9	84539.83	9393.31	13.6169	<.0001*
Error	40	27593.15	689.83		
C. Total	49	112132.98			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	56.182	11.746	32.4	79.92
BIMW-COMP-T-M	5	41.913	11.746	18.2	65.65
BIN-COMP-T	5	31.971	11.746	8.2	55.71
LA3-REF	5	11.251	11.746	-12.5	34.99
MCN1-COMP-T	5	94.446	11.746	70.7	118.19
MCN2-COMP-T	5	74.983	11.746	51.2	98.72
MCN3-COMP	5	84.602	11.746	60.9	108.34
MCN4-COMP	5	49.826	11.746	26.1	73.56
MCN5-COMP	5	38.294	11.746	14.6	62.03
TB	5	165.115	11.746	141.4	188.85

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	56.182	18.3126	8.190	33.4	78.92
BIMW-COMP-T-M	5	41.913	43.5306	19.467	-12.1	95.96
BIN-COMP-T	5	31.971	25.4898	11.399	0.32109	63.62
LA3-REF	5	11.251	3.0761	1.376	7.4	15.07
MCN1-COMP-T	5	94.446	10.9368	4.891	80.9	108.03
MCN2-COMP-T	5	74.983	21.6820	9.696	48.1	101.91
MCN3-COMP	5	84.602	14.8778	6.654	66.1	103.07
MCN4-COMP	5	49.826	24.0940	10.775	19.9	79.74
MCN5-COMP	5	38.294	24.7645	11.075	7.5	69.04
TB	5	165.115	44.7656	20.020	109.5	220.70

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB187**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**Confidence Quantile**

d	Alpha
2.81175	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	107.2	<.0001*
MCN1-COMP-T	36.49	<.0001*
MCN3-COMP	26.64	0.0006*
MCN2-COMP-T	17.03	0.0033*
BIME-COMP-T-M	-1.78	0.0642
MCN4-COMP	-8.13	0.1470
BIMW-COMP-T-M	-16	0.3519
MCN5-COMP	-19.7	0.4891
BIN-COMP-T	-26	0.7600
LA3-REF	-46.7	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	111.000	127.500	22.2000	-0.517
BIMW-COMP-T-M	5	87.000	127.500	17.4000	-1.294
BIN-COMP-T	5	84.000	127.500	16.8000	-1.391
LA3-REF	5	32.000	127.500	6.4000	-3.072
MCN1-COMP-T	5	194.000	127.500	38.8000	2.134
MCN2-COMP-T	5	159.000	127.500	31.8000	1.003
MCN3-COMP	5	178.000	127.500	35.6000	1.617
MCN4-COMP	5	105.000	127.500	21.0000	-0.711
MCN5-COMP	5	85.000	127.500	17.0000	-1.358
TB	5	240.000	127.500	48.0000	3.622

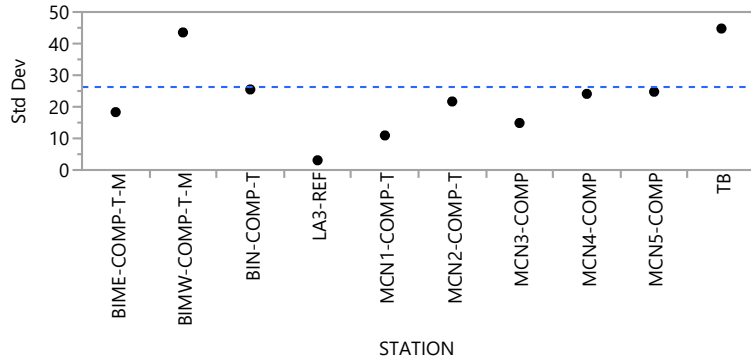
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
33.7508	9	<.0001*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB187**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	18.31263	12.98466	12.65738
BIMW-COMP-T-M	5	43.53062	38.13160	32.08230
BIN-COMP-T	5	25.48977	21.26582	17.80270
LA3-REF	5	3.07607	2.36583	2.02478
MCN1-COMP-T	5	10.93680	9.50426	8.11502
MCN2-COMP-T	5	21.68203	17.72581	17.30058
MCN3-COMP	5	14.87782	12.90344	11.32374
MCN4-COMP	5	24.09395	18.78644	16.47884
MCN5-COMP	5	24.76452	20.68357	18.74234
TB	5	44.76556	32.40464	31.47460

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	2.1325	9	40	0.0491*
Brown-Forsythe	1.0136	9	40	0.4457
Levene	4.2650	9	40	0.0006*
Bartlett	2.6691	9	.	0.0043*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*		Alpha							
1.95996		0.05							
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
MCN1-COMP-T	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	44.825	0.998	66.570	
MCN1-COMP-T	BIN-COMP-T	4.80000	1.909043	2.51435	0.0119*	71.708	16.798	93.453	
MCN1-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	77.955	70.106	98.658	
MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	63.312	39.061	88.217	
MCN3-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	80.342	53.186	88.764	
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	101.006	44.179	193.946	
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	119.301	35.645	225.240	

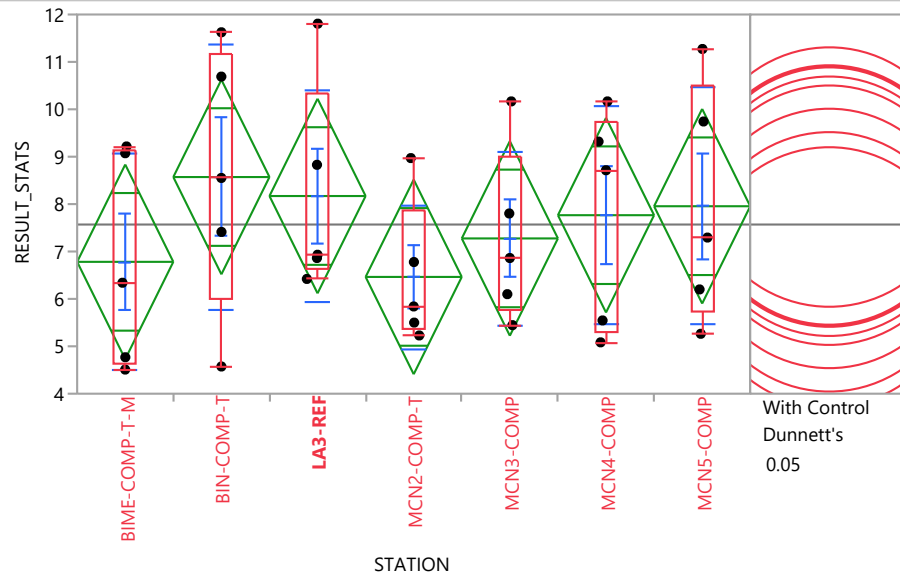


**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB187**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean		Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
		Difference	Std Err Dif						
TB	BIN-COMP-T	4.80000	1.909043	2.51435	0.0119*	116.108	59.980	220.829	
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	150.920	112.166	226.034	
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	67.650	19.779	149.120	
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	78.536	27.265	180.165	
TB	MCN3-COMP	4.80000	1.914854	2.50672	0.0122*	67.965	28.975	166.040	
TB	MCN4-COMP	4.80000	1.914854	2.50672	0.0122*	112.380	57.323	194.743	
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	116.666	61.898	222.605	
MCN2-COMP-T	BIN-COMP-T	4.00000	1.909043	2.09529	0.0361*	40.664	-14.246	83.621	
MCN3-COMP	BIME-COMP-T-M	4.00000	1.914854	2.08893	0.0367*	29.444	-15.921	56.676	
MCN3-COMP	BIN-COMP-T	4.00000	1.909043	2.09529	0.0361*	54.063	-0.121	83.559	
MCN4-COMP	LA3-REF	4.00000	1.914854	2.08893	0.0367*	49.206	-0.213	62.772	
MCN5-COMP	LA3-REF	3.60000	1.914854	1.88004	0.0601	35.842	-3.379	58.197	
MCN3-COMP	BIMW-COMP-T-M	3.20000	1.914854	1.67115	0.0947	57.778	-21.179	87.970	
MCN1-COMP-T	BIMW-COMP-T-M	2.40000	1.914854	1.25336	0.2101	75.470	-4.113	97.864	
MCN2-COMP-T	BIME-COMP-T-M	2.40000	1.914854	1.25336	0.2101	13.781	-30.047	57.059	
MCN2-COMP-T	BIMW-COMP-T-M	2.40000	1.914854	1.25336	0.2101	43.652	-36.220	88.559	
MCN4-COMP	BIN-COMP-T	1.20000	1.909043	0.62859	0.5296	24.681	-35.597	57.567	
BIN-COMP-T	BIMW-COMP-T-M	0.80000	1.909043	0.41906	0.6752	2.989	-75.821	59.321	
MCN3-COMP	MCN2-COMP-T	0.80000	1.914854	0.41779	0.6761	12.181	-29.559	42.895	
MCN4-COMP	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	3.444	-76.735	61.978	
MCN5-COMP	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	1.756	-77.597	57.403	
MCN4-COMP	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.741	-47.515	30.684	
MCN5-COMP	BIN-COMP-T	0.00000	1.909043	0.00000	1.0000	-0.559	-56.686	52.992	
BIMW-COMP-T-M	BIME-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-29.872	-75.122	48.938	
MCN5-COMP	MCN4-COMP	-0.80000	1.914854	-0.41779	0.6761	-11.914	-59.343	38.999	
LA3-REF	BIMW-COMP-T-M	-1.20000	1.914854	-0.62668	0.5309	-2.121	-81.026	6.014	
MCN3-COMP	MCN1-COMP-T	-1.20000	1.914854	-0.62668	0.5309	-12.045	-38.664	11.851	
MCN5-COMP	BIME-COMP-T-M	-1.60000	1.914854	-0.83557	0.4034	-17.719	-72.487	26.109	
BIN-COMP-T	BIME-COMP-T-M	-2.40000	1.909043	-1.25717	0.2087	-26.883	-70.711	28.027	
MCN2-COMP-T	MCN1-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-14.643	-52.789	11.345	
MCN4-COMP	MCN2-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-25.000	-85.114	16.903	
LA3-REF	BIN-COMP-T	-3.60000	1.909043	-1.88576	0.0593	-5.205	-60.115	1.603	
MCN4-COMP	MCN3-COMP	-4.00000	1.914854	-2.08893	0.0367*	-31.136	-83.404	2.778	
MCN5-COMP	MCN2-COMP-T	-4.00000	1.914854	-2.08893	0.0367*	-40.459	-85.059	12.328	
MCN5-COMP	MCN3-COMP	-4.40000	1.914854	-2.29783	0.0216*	-47.271	-85.336	-1.797	
LA3-REF	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-43.201	-75.916	-25.280	
MCN4-COMP	MCN1-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-43.181	-92.601	-14.141	
MCN5-COMP	MCN1-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-56.545	-95.229	-18.717	

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB189**



Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	4.50909	4.50909	4.63916	6.34091	9.144695	9.21622	9.21622
BIN-COMP-T	4.57377	4.57377	5.993405	8.55172	11.15735	11.625	11.625
LA3-REF	6.42105	6.42105	6.641775	6.93182	10.31773	11.8065	11.8065
MCN2-COMP-T	5.22857	5.22857	5.364285	5.84043	7.874185	8.97059	8.97059
MCN3-COMP	5.44643	5.44643	5.773215	6.8625	8.984515	10.1667	10.1667
MCN4-COMP	5.08333	5.08333	5.31439	8.71429	9.74307	10.1667	10.1667
MCN5-COMP	5.26415	5.26415	5.732075	7.29412	10.50778	11.2727	11.2727

**Oneway Anova**

**Summary of Fit**

Rsquare	0.110132
Adj Rsquare	-0.08055
Root Mean Square Error	2.240904
Mean of Response	7.568887
Observations (or Sum Wgts)	35

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	6	17.40167	2.90028	0.5776	0.7449
Error	28	140.60624	5.02165		
C. Total	34	158.00791			

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB189**

**Oneway Anova**

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	6.78172	1.0022	4.7289	8.835
BIN-COMP-T	5	8.57065	1.0022	6.5178	10.623
LA3-REF	5	8.17016	1.0022	6.1173	10.223
MCN2-COMP-T	5	6.46347	1.0022	4.4106	8.516
MCN3-COMP	5	7.27559	1.0022	5.2228	9.328
MCN4-COMP	5	7.76584	1.0022	5.7130	9.819
MCN5-COMP	5	7.95477	1.0022	5.9019	10.008

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	6.78172	2.26863	1.0146	3.9648	9.599
BIN-COMP-T	5	8.57065	2.78993	1.2477	5.1065	12.035
LA3-REF	5	8.17016	2.23382	0.9990	5.3965	10.944
MCN2-COMP-T	5	6.46347	1.51871	0.6792	4.5778	8.349
MCN3-COMP	5	7.27559	1.83946	0.8226	4.9916	9.560
MCN4-COMP	5	7.76584	2.30235	1.0296	4.9071	10.625
MCN5-COMP	5	7.95477	2.49805	1.1172	4.8530	11.057

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.73128	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
BIN-COMP-T	-3.47	0.9996
LA3-REF	-3.87	1.0000
MCN5-COMP	-3.66	1.0000
MCN4-COMP	-3.47	0.9996
MCN3-COMP	-2.98	0.9715
BIME-COMP-T-M	-2.48	0.8315
MCN2-COMP-T	-2.16	0.6855

Positive values show pairs of means that are significantly different.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB189**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

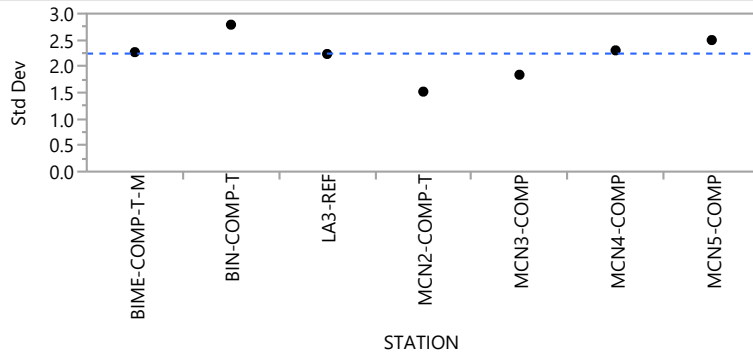
Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	70.000	90.000	14.0000	-0.919
BIN-COMP-T	5	110.000	90.000	22.0000	0.919
LA3-REF	5	107.500	90.000	21.5000	0.801
MCN2-COMP-T	5	63.000	90.000	12.6000	-1.249
MCN3-COMP	5	86.000	90.000	17.2000	-0.165
MCN4-COMP	5	94.500	90.000	18.9000	0.189
MCN5-COMP	5	99.000	90.000	19.8000	0.401

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
3.7201	6	0.7145

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif	MeanAbsDif
			to Mean	to Median
BIME-COMP-T-M	5	2.268634	1.890377	1.802214
BIN-COMP-T	5	2.789933	2.069363	2.065578
LA3-REF	5	2.233821	1.718049	1.470380
MCN2-COMP-T	5	1.518706	1.128569	1.003960
MCN3-COMP	5	1.839460	1.367138	1.284520
MCN4-COMP	5	2.302355	1.961162	1.771472
MCN5-COMP	5	2.498051	2.042411	1.910282

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	0.4511	6	28	0.8380
Brown-Forsythe	0.3155	6	28	0.9235
Levene	0.5952	6	28	0.7315
Bartlett	0.2708	6	.	0.9508

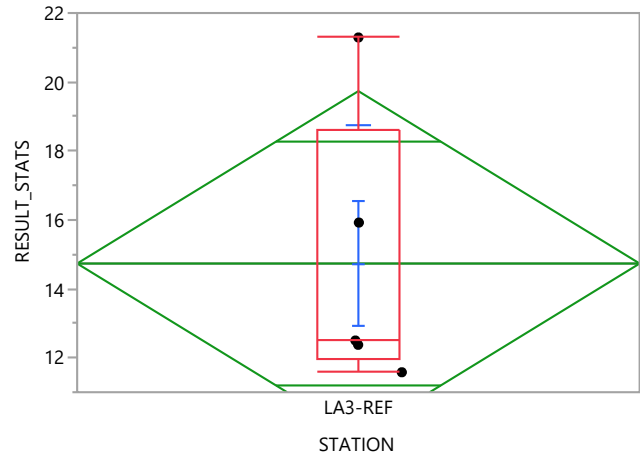
Warning: Small sample sizes. Use Caution.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB189**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

		q*	Alpha								
		1.95996	0.05								
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL			
MCN5-COMP	MCN2-COMP-T	2.00000	1.914854	1.04447	0.2963	0.97143	-2.77059	5.772700			
BIN-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	2.21081	-4.49940	6.855770			
LA3-REF	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.91196	-2.65212	7.037270			
MCN3-COMP	MCN2-COMP-T	1.60000	1.914854	0.83557	0.4034	0.87143	-2.87059	4.666700			
MCN4-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.77622	-3.98984	5.397470			
MCN5-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.95321	-3.80902	6.503470			
MCN4-COMP	MCN2-COMP-T	1.20000	1.914854	0.62668	0.5309	1.19611	-3.42514	4.666700			
MCN3-COMP	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.93734	-3.62674	5.397470			
MCN5-COMP	MCN3-COMP	0.40000	1.914854	0.20889	0.8345	0.43162	-3.96670	5.172700			
MCN5-COMP	MCN4-COMP	0.40000	1.914854	0.20889	0.8345	0.42342	-4.05529	5.727250			
MCN4-COMP	MCN3-COMP	0.20000	1.909043	0.10476	0.9166	0.09902	-4.62125	4.066700			
MCN2-COMP-T	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.10258	-3.84460	4.201360			
LA3-REF	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.55054	-4.76250	4.393460			
MCN4-COMP	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-1.37026	-6.07955	4.745670			
MCN4-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-0.87560	-6.26105	3.304200			
MCN5-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-0.53380	-5.60650	4.410200			
MCN5-COMP	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.94684	-5.42555	5.169090			
MCN3-COMP	LA3-REF	-1.40000	1.909043	-0.73335	0.4633	-0.83182	-5.70650	3.304200			
MCN3-COMP	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-1.45830	-5.52500	3.228560			
MCN2-COMP-T	BIN-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-2.18447	-6.12500	2.204010			
MCN2-COMP-T	LA3-REF	-2.80000	1.914854	-1.46225	0.1437	-1.36250	-6.30650	2.108090			

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB194**



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB194**

Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
LA3-REF	11.5789	11.5789	11.97695	12.5	18.6057	21.2903	21.2903

**Oneway Anova**

**Summary of Fit**

Rsquare	0
Adj Rsquare	0
Root Mean Square Error	4.028168
Mean of Response	14.73306
Observations (or Sum Wgts)	5

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	0	0.000000			
Error	4	64.904565	16.2261		
C. Total	4	64.904565			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
LA3-REF	5	14.7331	1.8015	9.7314	19.735

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
LA3-REF	5	14.7331	4.02817	1.8015	9.7314	19.735

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Expected			(Mean-Mean0)/Std0
		Score Sum	Score	Score Mean	
LA3-REF	5	15.000	15.000	3.00000	

**1-Way Test, ChiSquare Approximation**

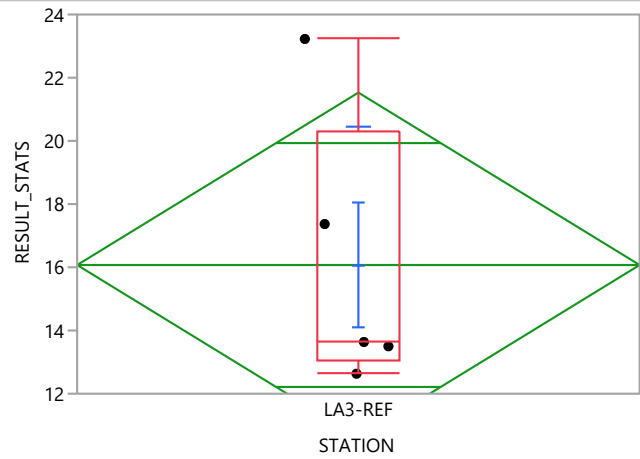
ChiSquare	DF	Prob>ChiSq
0.0000	0	

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*		Alpha						
1.95996		0.05						
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB195**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
LA3-REF	12.6316	12.6316	13.0658	13.6364	20.2971	23.2258	23.2258

**Oneway Anova**

**Summary of Fit**

Rsquare	0
Adj Rsquare	0
Root Mean Square Error	4.394348
Mean of Response	16.07244
Observations (or Sum Wgts)	5

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	0	0.000000			
Error	4	77.241190	19.3103		
C. Total	4	77.241190			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
LA3-REF	5	16.0724	1.9652	10.616	21.529

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
LA3-REF	5	16.0724	4.39435	1.9652	10.616	21.529

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB195**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected	
			Score	Score Mean
LA3-REF	5	15.000	15.000	3.00000

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
0.0000	0	

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

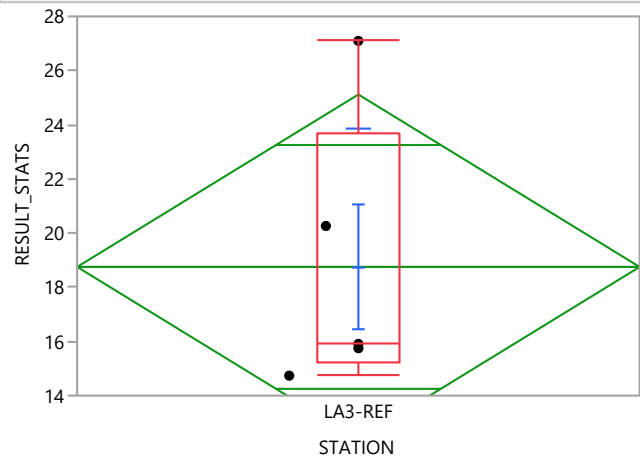
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB200**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
LA3-REF	14.7368	14.7368	15.2434	15.9091	23.68	27.0968	27.0968

**Oneway Anova**

**Summary of Fit**

Rsquare	0
Adj Rsquare	0
Root Mean Square Error	5.126776
Mean of Response	18.75118
Observations (or Sum Wgts)	5



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB200**

**Oneway Anova**

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	0	0.00000	.	.	.
Error	4	105.13532	26.2838		
C. Total	4	105.13532			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
LA3-REF	5	18.7512	2.2928	12.385	25.117

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
LA3-REF	5	18.7512	5.12678	2.2928	12.385	25.117

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
LA3-REF	5	15.000	15.000	3.00000	

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
0.0000	0	.

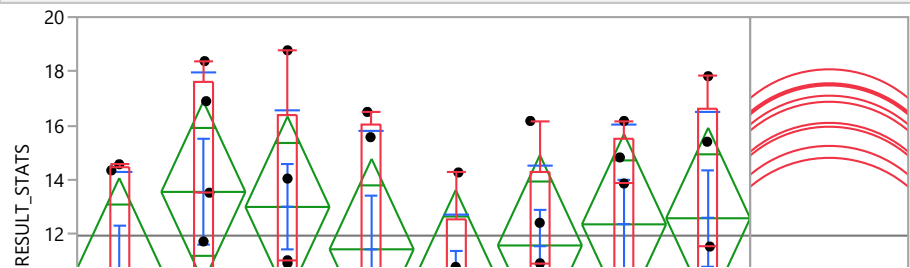
Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

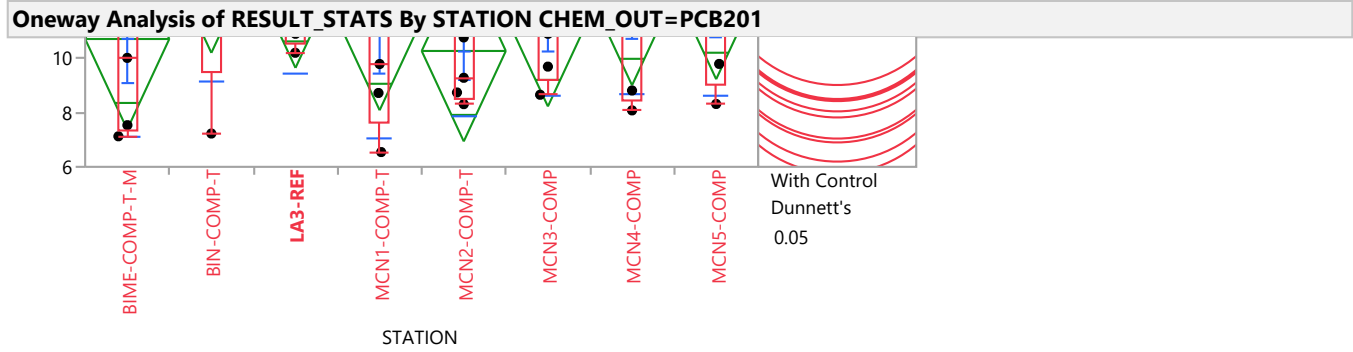
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean			Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
		Difference	Std Err Dif						

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB201**





Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	7.12727	7.12727	7.332865	10.0227	14.45455	14.5676	14.5676
BIN-COMP-T	7.22951	7.22951	9.473455	13.5172	17.6358	18.375	18.375
LA3-REF	10.2105	10.2105	10.5615	11.0227	16.40685	18.7742	18.7742
MCN1-COMP-T	6.54545	6.54545	7.63636	9.79592	16.0338	16.5	16.5
MCN2-COMP-T	8.31429	8.31429	8.530095	9.28723	12.52125	14.2647	14.2647
MCN3-COMP	8.66071	8.66071	9.180355	10.9125	14.28685	16.1667	16.1667
MCN4-COMP	8.08333	8.08333	8.450755	13.8571	15.49305	16.1667	16.1667
MCN5-COMP	8.32075	8.32075	9.060375	11.5294	16.6091	17.8182	17.8182

**Oneway Anova**

**Summary of Fit**

Rsquare	0.093899
Adj Rsquare	-0.10431
Root Mean Square Error	3.665223
Mean of Response	11.93197
Observations (or Sum Wgts)	40

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	7	44.54894	6.3641	0.4737	0.8463
Error	32	429.88361	13.4339		
C. Total	39	474.43255			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	10.7195	1.6391	7.381	14.058
BIN-COMP-T	5	13.5471	1.6391	10.208	16.886
LA3-REF	5	12.9919	1.6391	9.653	16.331
MCN1-COMP-T	5	11.4272	1.6391	8.088	14.766
MCN2-COMP-T	5	10.2780	1.6391	6.939	13.617
MCN3-COMP	5	11.5694	1.6391	8.231	14.908
MCN4-COMP	5	12.3489	1.6391	9.010	15.688

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB201**

**Oneway Anova**

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
MCN5-COMP	5	12.5737	1.6391	9.235	15.912

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	10.7195	3.58592	1.6037	6.2670	15.172
BIN-COMP-T	5	13.5471	4.40989	1.9722	8.0715	19.023
LA3-REF	5	12.9919	3.55212	1.5886	8.5813	17.402
MCN1-COMP-T	5	11.4272	4.37774	1.9578	5.9916	16.863
MCN2-COMP-T	5	10.2780	2.41499	1.0800	7.2794	13.277
MCN3-COMP	5	11.5694	2.92504	1.3081	7.9375	15.201
MCN4-COMP	5	12.3489	3.66110	1.6373	7.8031	16.895
MCN5-COMP	5	12.5737	3.94855	1.7658	7.6709	17.476

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.76173	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
BIN-COMP-T	-5.85	1.0000
LA3-REF	-6.4	1.0000
MCN5-COMP	-5.98	1.0000
MCN4-COMP	-5.76	0.9999
MCN3-COMP	-4.98	0.9851
MCN1-COMP-T	-4.84	0.9754
BIME-COMP-T-M	-4.13	0.8651
MCN2-COMP-T	-3.69	0.7486

Positive values show pairs of means that are significantly different.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB201**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

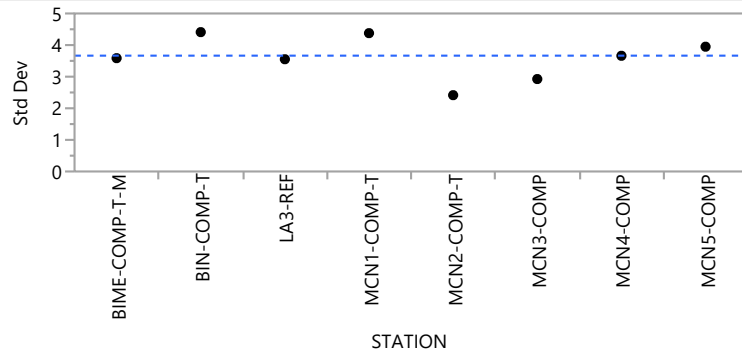
Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	81.000	102.500	16.2000	-0.859
BIN-COMP-T	5	127.000	102.500	25.4000	0.982
LA3-REF	5	124.500	102.500	24.9000	0.879
MCN1-COMP-T	5	93.000	102.500	18.6000	-0.368
MCN2-COMP-T	5	74.000	102.500	14.8000	-1.145
MCN3-COMP	5	99.000	102.500	19.8000	-0.123
MCN4-COMP	5	107.500	102.500	21.5000	0.184
MCN5-COMP	5	114.000	102.500	22.8000	0.450

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
3.8327	7	0.7988

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif	
			to Mean	to Median
BIME-COMP-T-M	5	3.585925	2.988035	2.848674
BIN-COMP-T	5	4.409887	3.270926	3.264938
LA3-REF	5	3.552123	2.731976	2.338140
MCN1-COMP-T	5	4.377739	3.685242	3.358976
MCN2-COMP-T	5	2.414989	1.794613	1.596462
MCN3-COMP	5	2.925038	2.173974	2.042598
MCN4-COMP	5	3.661103	3.118550	2.816918
MCN5-COMP	5	3.948554	3.228344	3.019490

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB201**

**Tests that the Variances are Equal**

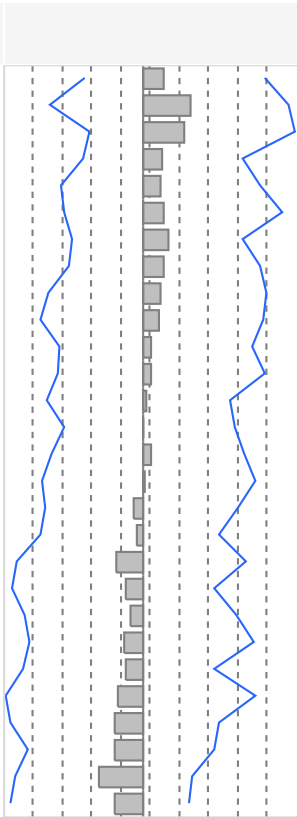
Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	0.4990	7	32	0.8282
Brown-Forsythe	0.3160	7	32	0.9413
Levene	0.7143	7	32	0.6604
Bartlett	0.2717	7	.	0.9651

Warning: Small sample sizes. Use Caution.

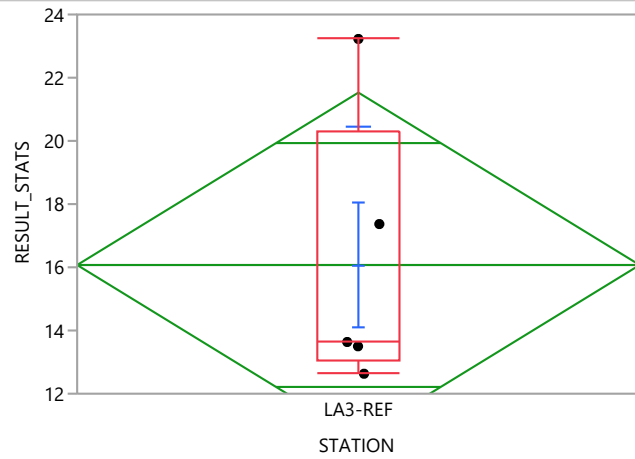
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q\* Alpha  
1.95996 0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
MCN5-COMP	MCN2-COMP-T	2.00000	1.914854	1.04447	0.2963	1.48571	-4.4647	9.07230
BIN-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	3.49450	-7.1120	10.83654
LA3-REF	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	3.08323	-4.1310	11.23574
MCN3-COMP	MCN2-COMP-T	1.60000	1.914854	0.83557	0.4034	1.38571	-4.5647	7.42080
MCN4-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.27972	-6.2582	8.62824
MCN5-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	1.50670	-6.0208	10.27974
MCN4-COMP	MCN2-COMP-T	1.20000	1.914854	0.62668	0.5309	1.90200	-5.4465	7.42080
MCN3-COMP	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	1.53344	-5.6808	8.62824
MCN5-COMP	MCN1-COMP-T	0.80000	1.914854	0.41779	0.6761	1.31820	-7.2469	9.09093
MCN1-COMP-T	BIME-COMP-T-M	0.40000	1.914854	0.20889	0.8345	1.18881	-7.7961	8.96154
MCN5-COMP	MCN3-COMP	0.40000	1.914854	0.20889	0.8345	0.61690	-6.3667	8.11820
MCN5-COMP	MCN4-COMP	0.40000	1.914854	0.20889	0.8345	0.58060	-6.4987	9.00002
MCN4-COMP	MCN3-COMP	0.20000	1.909043	0.10476	0.9166	0.15747	-7.3485	6.46670
MCN2-COMP-T	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.07680	-6.0272	6.72624
MCN3-COMP	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	0.59910	-6.9069	7.43943
MCN4-COMP	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	0.09091	-7.6818	8.27395
LA3-REF	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.80490	-7.4625	7.05680
MCN2-COMP-T	MCN1-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.50869	-7.7541	5.53743
MCN4-COMP	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-2.07720	-9.5568	7.58989
MCN4-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-1.39232	-9.9560	5.25420
MCN5-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-0.95600	-8.9742	6.90570
MCN5-COMP	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-1.49660	-8.5759	8.17049
MCN3-COMP	LA3-REF	-1.40000	1.909043	-0.73335	0.4633	-1.32270	-9.0742	5.25420
MCN1-COMP-T	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-1.92148	-10.3512	8.33809
MCN1-COMP-T	LA3-REF	-1.60000	1.914854	-0.83557	0.4034	-2.18523	-10.0469	5.58750
MCN3-COMP	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-2.20830	-8.6750	5.17749
MCN2-COMP-T	BIN-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-3.40311	-9.6291	3.54829
MCN2-COMP-T	LA3-REF	-2.80000	1.914854	-1.46225	0.1437	-2.16660	-10.0283	3.35220



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB203**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
LA3-REF	12.6316	12.6316	13.0658	13.6364	20.2971	23.2258	23.2258

**Oneway Anova**

**Summary of Fit**

Rsquare	0
Adj Rsquare	0
Root Mean Square Error	4.394348
Mean of Response	16.07244
Observations (or Sum Wgts)	5

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	0	0.000000			
Error	4	77.241190	19.3103		
C. Total	4	77.241190			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
LA3-REF	5	16.0724	1.9652	10.616	21.529

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
LA3-REF	5	16.0724	4.39435	1.9652	10.616	21.529

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB203**

Wilcoxon / Kruskal-Wallis Tests (Rank Sums)				
Level	Count	Score Sum	Expected Score	Score Mean (Mean-Mean0)/Std0
LA3-REF	5	15.000	15.000	3.00000

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
0.0000	0	

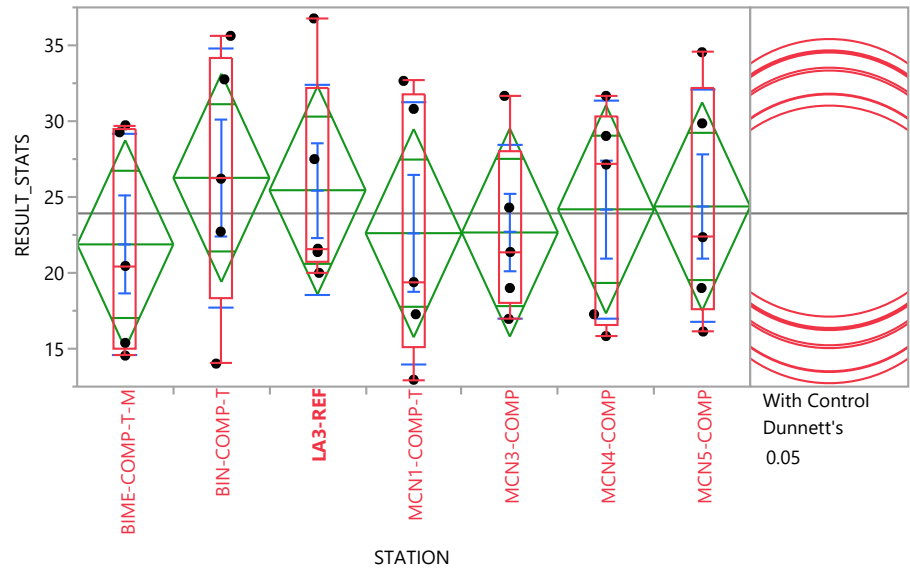
Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL

q\* 1.95996  
Alpha 0.05

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB206**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	14.5455	14.5455	14.96505	20.4545	29.499	29.7297	29.7297
BIN-COMP-T	14.0164	14.0164	18.3669	26.2069	34.1918	35.625	35.625
LA3-REF	20	20	20.6875	21.5909	32.1371	36.7742	36.7742
MCN1-COMP-T	12.9545	12.9545	15.1136	19.3878	31.73355	32.6563	32.6563
MCN3-COMP	16.9643	16.9643	17.98215	21.375	27.9845	31.6667	31.6667

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB206**

Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
MCN4-COMP	15.8333	15.8333	16.553	27.1429	30.34725	31.6667	31.6667
MCN5-COMP	16.1321	16.1321	17.56605	22.3529	32.2013	34.5455	34.5455

**Oneway Anova**

**Summary of Fit**

Rsquare	0.047197
Adj Rsquare	-0.15698
Root Mean Square Error	7.492774
Mean of Response	23.9191
Observations (or Sum Wgts)	35

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	6	77.8664	12.9777	0.2312	0.9629
Error	28	1571.9666	56.1417		
C. Total	34	1649.8330			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	21.8765	3.3509	15.013	28.740
BIN-COMP-T	5	26.2649	3.3509	19.401	33.129
LA3-REF	5	25.4480	3.3509	18.584	32.312
MCN1-COMP-T	5	22.6164	3.3509	15.752	29.480
MCN3-COMP	5	22.6617	3.3509	15.798	29.526
MCN4-COMP	5	24.1887	3.3509	17.325	31.053
MCN5-COMP	5	24.3775	3.3509	17.514	31.241

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	21.8765	7.31816	3.2728	12.790	30.963
BIN-COMP-T	5	26.2649	8.54976	3.8236	15.649	36.881
LA3-REF	5	25.4480	6.95774	3.1116	16.809	34.087
MCN1-COMP-T	5	22.6164	8.66428	3.8748	11.858	33.375
MCN3-COMP	5	22.6617	5.72943	2.5623	15.548	29.776
MCN4-COMP	5	24.1887	7.17127	3.2071	15.284	33.093
MCN5-COMP	5	24.3775	7.65535	3.4236	14.872	33.883

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB206**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**Confidence Quantile**

d	Alpha
2.73128	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
BIN-COMP-T	-12.1	1.0000
LA3-REF	-12.9	1.0000
MCN5-COMP	-11.9	0.9999
MCN4-COMP	-11.7	0.9997
MCN3-COMP	-10.2	0.9796
MCN1-COMP-T	-10.1	0.9780
BIME-COMP-T-M	-9.37	0.9377

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	72.000	90.000	14.4000	-0.825
BIN-COMP-T	5	108.000	90.000	21.6000	0.825
LA3-REF	5	103.500	90.000	20.7000	0.613
MCN1-COMP-T	5	80.500	90.000	16.1000	-0.424
MCN3-COMP	5	82.500	90.000	16.5000	-0.330
MCN4-COMP	5	89.000	90.000	17.8000	-0.024
MCN5-COMP	5	94.500	90.000	18.9000	0.189

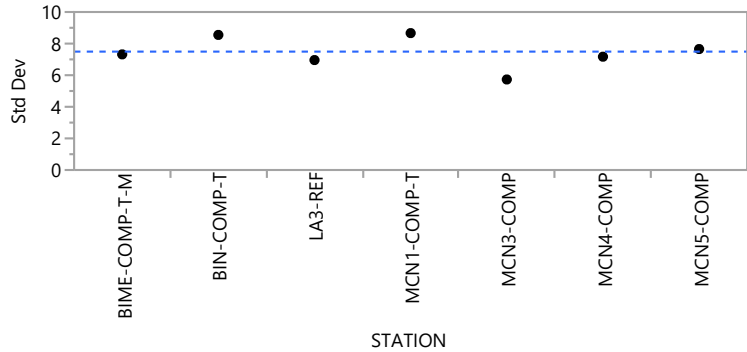
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
1.9020	6	0.9285

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB206**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	7.318160	6.097984	5.813580
BIN-COMP-T	5	8.549759	6.341552	6.329960
LA3-REF	5	6.957743	5.351264	4.579840
MCN1-COMP-T	5	8.664281	7.293704	6.647980
MCN3-COMP	5	5.729433	4.258272	4.000940
MCN4-COMP	5	7.171270	6.108544	5.517700
MCN5-COMP	5	7.655347	6.259024	5.854100

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	0.3009	6	28	0.9312
Brown-Forsythe	0.1818	6	28	0.9795
Levene	0.4102	6	28	0.8659
Bartlett	0.1353	6	.	0.9918

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

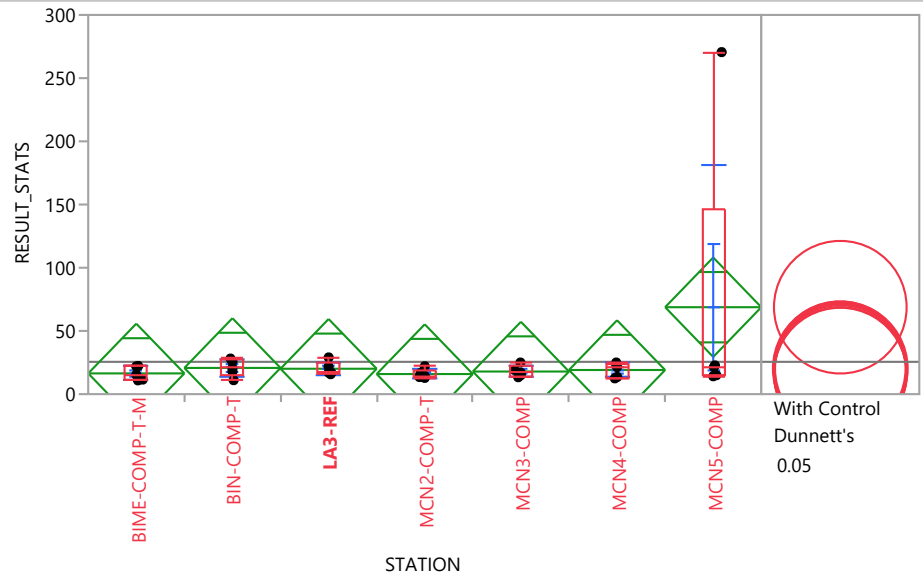
q*		Alpha									
1.95996		0.05									
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL			
MCN5-COMP	BIME-COMP-T-M	1.60000	1.914854	0.835573	0.4034	1.89840	-13.1362	19.16090			
BIN-COMP-T	BIME-COMP-T-M	1.20000	1.914854	0.626680	0.5309	5.75240	-15.2519	20.24040			
LA3-REF	BIME-COMP-T-M	1.20000	1.914854	0.626680	0.5309	5.45450	-9.2683	21.38960			
MCN3-COMP	BIME-COMP-T-M	0.80000	1.914854	0.417786	0.6761	1.93700	-12.3040	16.28210			
MCN4-COMP	BIME-COMP-T-M	0.80000	1.914854	0.417786	0.6761	1.88810	-13.4350	16.28210			
MCN1-COMP-T	BIME-COMP-T-M	0.40000	1.914854	0.208893	0.8345	1.54250	-16.3138	17.27170			
MCN5-COMP	MCN1-COMP-T	0.40000	1.914854	0.208893	0.8345	1.88920	-14.6787	17.27280			
MCN5-COMP	MCN4-COMP	0.40000	1.914854	0.208893	0.8345	0.82930	-12.8957	17.27280			
MCN4-COMP	MCN3-COMP	0.20000	1.909043	0.104765	0.9166	0.30840	-14.3940	12.66670			
MCN5-COMP	MCN3-COMP	0.20000	1.909043	0.104765	0.9166	0.97790	-12.6667	15.54550			
MCN3-COMP	MCN1-COMP-T	0.00000	1.914854	0.000000	1.0000	0.85590	-13.8465	14.39400			

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB206**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean		Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
		Difference	Std Err Dif						
MCN4-COMP	MCN1-COMP-T	0.00000	1.909043	0.000000	1.0000	0.00000	-15.3836	16.07330	
LA3-REF	BIN-COMP-T	-0.40000	1.914854	-0.208893	0.8345	-1.34240	-14.2500	14.05680	
MCN4-COMP	BIN-COMP-T	-0.40000	1.914854	-0.208893	0.8345	-3.73080	-18.3523	15.01140	
MCN4-COMP	LA3-REF	-0.40000	1.914854	-0.208893	0.8345	-2.72730	-19.5015	10.29170	
MCN5-COMP	LA3-REF	-0.40000	1.914854	-0.208893	0.8345	-2.22870	-17.7742	13.17050	
MCN5-COMP	BIN-COMP-T	-0.80000	1.914854	-0.417786	0.6761	-2.90150	-16.6265	15.84070	
MCN3-COMP	LA3-REF	-1.40000	1.909043	-0.733352	0.4633	-2.59090	-17.7742	10.29170	
MCN1-COMP-T	BIN-COMP-T	-1.60000	1.914854	-0.835573	0.4034	-3.32960	-19.8041	16.79440	
MCN1-COMP-T	LA3-REF	-1.60000	1.914854	-0.835573	0.4034	-4.10230	-19.5015	11.28130	
MCN3-COMP	BIN-COMP-T	-1.60000	1.914854	-0.835573	0.4034	-3.95830	-16.6250	10.28590	

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB209**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	10.9091	10.9091	11.2238	15.3409	22.12425	22.2973	22.2973
BIN-COMP-T	11.0656	11.0656	14.5002	20.6897	26.99355	28.125	28.125
LA3-REF	15.7895	15.7895	16.33225	17.0455	25.3714	29.0323	29.0323
MCN2-COMP-T	12.8571	12.8571	13.19085	14.3617	19.36275	22.0588	22.0588
MCN3-COMP	13.3929	13.3929	14.19645	16.875	22.093	25	25
MCN4-COMP	12.5	12.5	13.0682	21.4286	23.95835	25	25
MCN5-COMP	14.1509	14.1509	14.57545	21.4286	146.6577	270.588	270.588

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB209**

**Oneway Anova**

**Summary of Fit**

Rsquare	0.175489
Adj Rsquare	-0.00119
Root Mean Square Error	42.95154
Mean of Response	25.55618
Observations (or Sum Wgts)	35

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	6	10994.356	1832.39	0.9933	0.4490
Error	28	51655.367	1844.83		
C. Total	34	62649.723			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	16.4074	19.209	-22.94	55.75
BIN-COMP-T	5	20.7354	19.209	-18.61	60.08
LA3-REF	5	20.0906	19.209	-19.26	59.44
MCN2-COMP-T	5	15.8938	19.209	-23.45	55.24
MCN3-COMP	5	17.8908	19.209	-21.46	57.24
MCN4-COMP	5	19.0963	19.209	-20.25	58.44
MCN5-COMP	5	68.7790	19.209	29.43	108.13

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	16.4074	5.489	2.455	9.59	23.22
BIN-COMP-T	5	20.7354	6.750	3.019	12.35	29.12
LA3-REF	5	20.0906	5.493	2.457	13.27	26.91
MCN2-COMP-T	5	15.8938	3.735	1.670	11.26	20.53
MCN3-COMP	5	17.8908	4.523	2.023	12.27	23.51
MCN4-COMP	5	19.0963	5.662	2.532	12.07	26.13
MCN5-COMP	5	68.7790	112.878	50.481	-71.38	208.94

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.73128	0.05

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB209**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
MCN5-COMP	-25.5	0.3114
BIN-COMP-T	-73.6	1.0000
LA3-REF	-74.2	1.0000
MCN4-COMP	-73.2	1.0000
MCN3-COMP	-72	1.0000
BIME-COMP-T-M	-70.5	1.0000
MCN2-COMP-T	-70	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

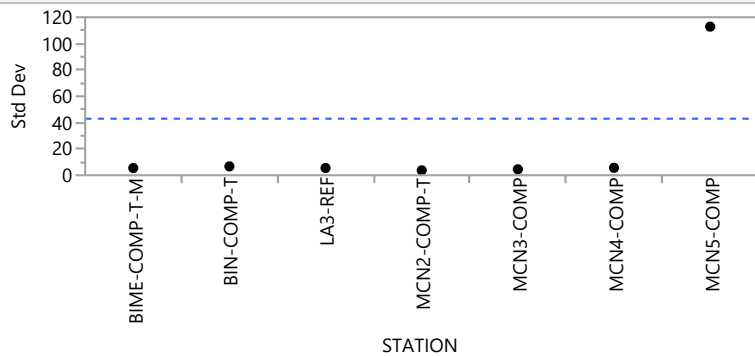
Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	69.000	90.000	13.8000	-0.967
BIN-COMP-T	5	107.000	90.000	21.4000	0.778
LA3-REF	5	106.500	90.000	21.3000	0.754
MCN2-COMP-T	5	63.000	90.000	12.6000	-1.250
MCN3-COMP	5	84.500	90.000	16.9000	-0.236
MCN4-COMP	5	94.000	90.000	18.8000	0.165
MCN5-COMP	5	106.000	90.000	21.2000	0.731

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
3.8755	6	0.6935

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=PCB209**

**Tests that the Variances are Equal**

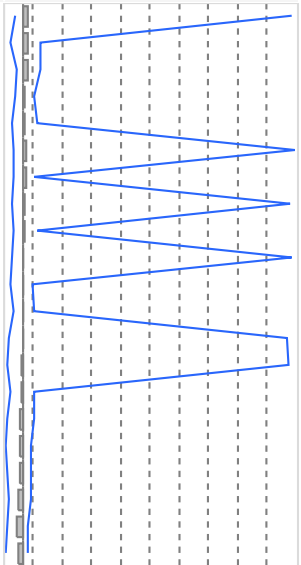
Level	Count	Std Dev	MeanAbsDif	MeanAbsDif
			to Mean	to Median
BIME-COMP-T-M	5	5.4886	4.57348	4.36018
BIN-COMP-T	5	6.7498	5.00649	4.99734
LA3-REF	5	5.4930	4.22467	3.61566
MCN2-COMP-T	5	3.7345	2.77518	2.46876
MCN3-COMP	5	4.5232	3.36178	3.15862
MCN4-COMP	5	5.6615	4.82251	4.35606
MCN5-COMP	5	112.8784	80.72362	52.83288

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[5]	1.3035	6	28	0.2881
Brown-Forsythe	0.9915	6	28	0.4500
Levene	6.3327	6	28	0.0003*
Bartlett	14.2654	6	.	<.0001*

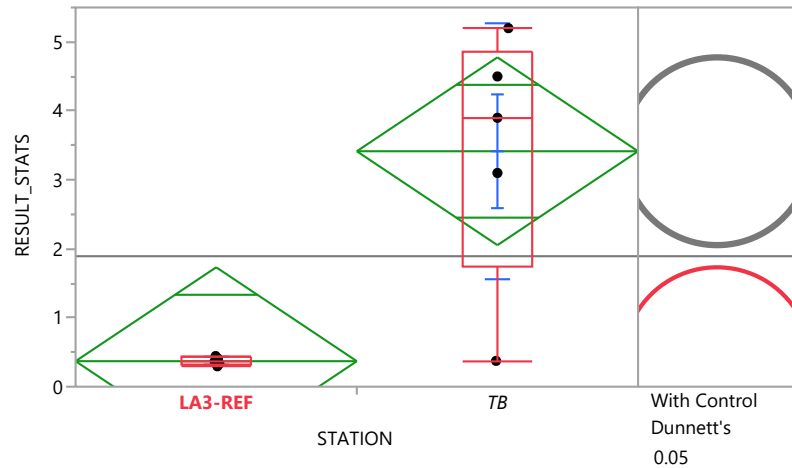
Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*		Alpha											
1.95996		0.05											
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL					
MCN5-COMP	MCN2-COMP-T	2.40000	1.914854	1.25336	0.2101	4.76190	-7.0588	257.0634					
BIN-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	5.34880	-10.8856	16.5865					
LA3-REF	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	4.88040	-6.1617	17.4938					
MCN3-COMP	MCN2-COMP-T	1.60000	1.914854	0.83557	0.4034	2.14290	-7.0588	11.4754					
MCN4-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	2.09790	-9.4512	13.4615					
MCN5-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	3.46150	-7.8003	259.0495					
MCN4-COMP	MCN2-COMP-T	1.20000	1.914854	0.62668	0.5309	2.94120	-8.4224	11.4754					
MCN5-COMP	MCN3-COMP	1.00000	1.909043	0.52382	0.6004	2.24260	-10.0000	255.5880					
MCN3-COMP	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	2.48380	-8.5583	13.4615					
MCN5-COMP	MCN4-COMP	0.60000	1.909043	0.31429	0.7533	1.29870	-10.0000	256.9516					
MCN4-COMP	MCN3-COMP	0.20000	1.909043	0.10476	0.9166	0.24350	-11.3636	10.0000					
MCN2-COMP-T	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.10760	-9.0941	10.5203					
MCN5-COMP	BIN-COMP-T	0.00000	1.914854	0.00000	1.0000	0.73890	-13.1250	252.6532					
MCN5-COMP	LA3-REF	0.00000	1.914854	0.00000	1.0000	-0.28190	-14.0323	253.7130					
LA3-REF	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-1.05980	-11.2500	11.0975					
MCN4-COMP	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-2.94540	-14.4886	11.8511					
MCN4-COMP	LA3-REF	-0.40000	1.914854	-0.20889	0.8345	-2.15310	-15.3959	8.1250					
MCN3-COMP	LA3-REF	-1.40000	1.909043	-0.73335	0.4633	-2.04550	-14.0323	8.1250					
MCN3-COMP	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-3.12500	-13.1250	8.1204					
MCN2-COMP-T	BIN-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-5.07770	-14.6004	5.6011					
MCN2-COMP-T	LA3-REF	-2.80000	1.914854	-1.46225	0.1437	-3.35040	-15.5077	5.1838					



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=Total Butyltins (ND = 0)**



Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
LA3-REF	0.296	0.296	0.3145	0.37	0.4255	0.444	0.444
TB	0.375	0.375	1.7375	3.9	4.85	5.2	5.2

**Oneway Anova**

**Summary of Fit**

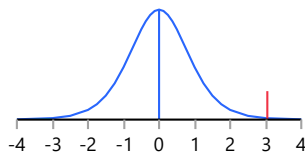
Rsquare	0.62424
Adj Rsquare	0.57727
Root Mean Square Error	1.320662
Mean of Response	1.8925
Observations (or Sum Wgts)	10

**t Test**

TB-LA3-REF

Assuming equal variances

Difference	3.04500	t Ratio	3.645571
Std Err Dif	0.83526	DF	8
Upper CL Dif	4.97111	Prob >  t	0.0065*
Lower CL Dif	1.11889	Prob > t	0.0033*
Confidence	0.95	Prob < t	0.9967



**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	1	23.180063	23.1801	13.2902	0.0065*
Error	8	13.953190	1.7441		
C. Total	9	37.133253			

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=Total Butyltins (ND = 0)**

**Oneway Anova**

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
LA3-REF	5	0.37000	0.59062	-0.992	1.7320
TB	5	3.41500	0.59062	2.053	4.7770

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

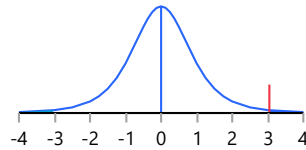
Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
LA3-REF	5	0.37000	0.05850	0.02616	0.2974	0.4426
TB	5	3.41500	1.86678	0.83485	1.0971	5.7329

**t Test**

TB-LA3-REF

Assuming unequal variances

Difference	3.04500	t Ratio	3.645571
Std Err Dif	0.83526	DF	4.007857
Upper CL Dif	5.36226	Prob >  t	0.0218*
Lower CL Dif	0.72774	Prob > t	0.0109*
Confidence	0.95	Prob < t	0.9891



**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.30600	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	1.119	0.0065*
LA3-REF	-1.93	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
LA3-REF	5	17.000	27.500	3.40000	-2.089
TB	5	38.000	27.500	7.60000	2.089

**2-Sample Test, Normal Approximation**

S	Z	Prob> Z
38	2.08893	0.0367*



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=Total Butyltins (ND = 0)**

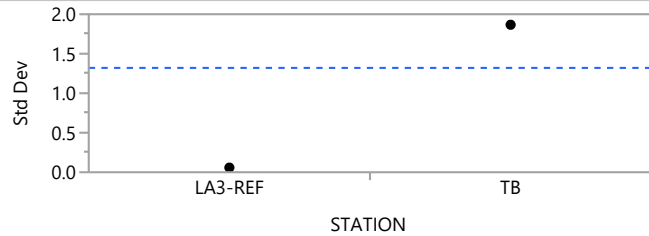
**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
4.8109	1	0.0283*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif	MeanAbsDif
			to Mean	to Median
LA3-REF	5	0.058502	0.044400	0.044400
TB	5	1.866782	1.342000	1.245000

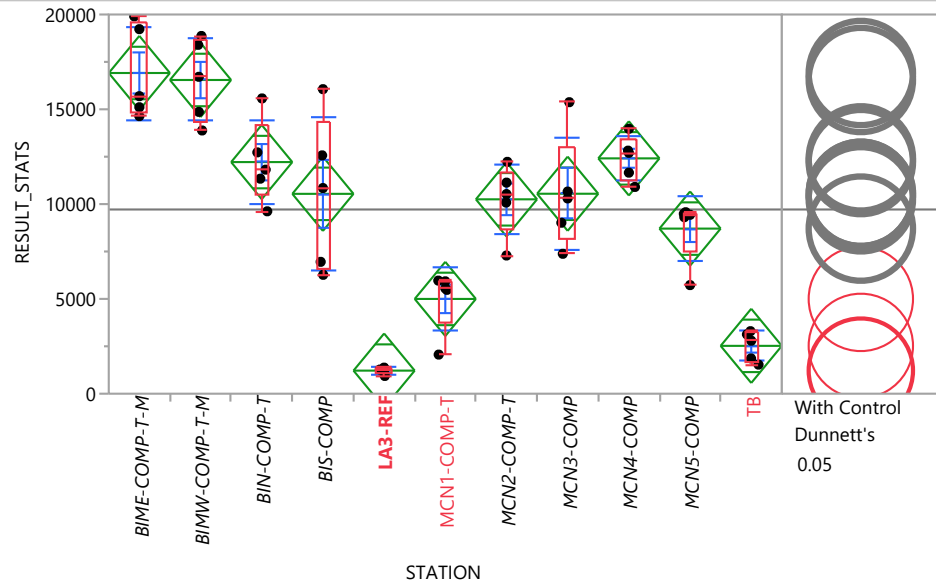
Test	F Ratio	DFNum	DFDen	p-Value
O'Brien[.5]	1.9602	1	8	0.1991
Brown-Forsythe	3.9120	1	8	0.0833
Levene	6.8189	1	8	0.0311*
Bartlett	19.7031	1	.	<.0001*
F Test 2-sided	1018.2250	4	4	<.0001*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*		Alpha								
1.95996		0.05								
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL		
TB	LA3-REF	4.000000	1.914854	2.088932	0.0367*	3.530000	-0.032000	4.867000		

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=Total DDTs (ND = 0)**



Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	14640.5	14640.5	14874.8	15692.3	19564.85	19902.4	19902.4
BIMW-COMP-T-M	13883.3	13883.3	14373.35	16714.3	18633.95	18867.9	18867.9
BIN-COMP-T	9620.69	9620.69	10480.65	11817.2	14151.05	15573.8	15573.8
BIS-COMP	6270.27	6270.27	6612.41	10846.2	14316.55	16062.5	16062.5
LA3-REF	935.484	935.484	1047.287	1273.68	1358.555	1375	1375
MCN1-COMP-T	2062.5	2062.5	3769.885	5557.58	5946.17	5965.31	5965.31
MCN2-COMP-T	7288.24	7288.24	8685.12	10527.7	11680.95	12228.6	12228.6
MCN3-COMP	7379.07	7379.07	8197.87	10300	13017.85	15375	15375
MCN4-COMP	10904.5	10904.5	11281.4	12703.7	13396.1	13972.2	13972.2
MCN5-COMP	5727.27	5727.27	7519.515	9436	9531.565	9571.7	9571.7
TB	1533.33	1533.33	1696.9	2795.45	3213.165	3297.3	3297.3

**Oneway Anova**

**Summary of Fit**

Rsquare	0.862744
Adj Rsquare	0.83155
Root Mean Square Error	2171.729
Mean of Response	9715.709
Observations (or Sum Wgts)	55

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=Total DDTs (ND = 0)**

**Oneway Anova**

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	10	1304412711	130441271	27.6569	<.0001*
Error	44	207521969	4716408.4		
C. Total	54	1511934681			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	16914.3	971.23	14957	18872
BIMW-COMP-T-M	5	16545.8	971.23	14588	18503
BIN-COMP-T	5	12216.1	971.23	10259	14173
BIS-COMP	5	10540.8	971.23	8583	12498
LA3-REF	5	1217.1	971.23	-740	3174
MCN1-COMP-T	5	4997.9	971.23	3041	6955
MCN2-COMP-T	5	10252.0	971.23	8295	12209
MCN3-COMP	5	10546.3	971.23	8589	12504
MCN4-COMP	5	12411.7	971.23	10454	14369
MCN5-COMP	5	8707.6	971.23	6750	10665
TB	5	2523.1	971.23	566	4480

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	16914.3	2459.72	1100.0	13860	19968
BIMW-COMP-T-M	5	16545.8	2166.68	969.0	13855	19236
BIN-COMP-T	5	12216.1	2190.79	979.8	9496	14936
BIS-COMP	5	10540.8	4055.90	1813.9	5505	15577
LA3-REF	5	1217.1	177.79	79.5	996	1438
MCN1-COMP-T	5	4997.9	1655.20	740.2	2943	7053
MCN2-COMP-T	5	10252.0	1842.04	823.8	7965	12539
MCN3-COMP	5	10546.3	2990.03	1337.2	6834	14259
MCN4-COMP	5	12411.7	1175.41	525.7	10952	13871
MCN5-COMP	5	8707.6	1668.76	746.3	6636	10780
TB	5	2523.1	784.13	350.7	1549	3497

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.83292	0.05

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=Total DDTs (ND = 0)**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
BIME-COMP-T-M	11806	<.0001*
BIMW-COMP-T-M	11438	<.0001*
MCN4-COMP	7304	<.0001*
BIN-COMP-T	7108	<.0001*
MCN3-COMP	5438	<.0001*
BIS-COMP	5433	<.0001*
MCN2-COMP-T	5144	<.0001*
MCN5-COMP	3599	<.0001*
MCN1-COMP-T	-110	0.0605
TB	-2585	0.9399
LA3-REF	-3891	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	248.000	140.000	49.6000	3.147
BIMW-COMP-T-M	5	243.000	140.000	48.6000	3.001
BIN-COMP-T	5	184.000	140.000	36.8000	1.274
BIS-COMP	5	154.000	140.000	30.8000	0.395
LA3-REF	5	15.000	140.000	3.0000	-3.645
MCN1-COMP-T	5	64.000	140.000	12.8000	-2.210
MCN2-COMP-T	5	145.000	140.000	29.0000	0.132
MCN3-COMP	5	146.000	140.000	29.2000	0.161
MCN4-COMP	5	190.000	140.000	38.0000	1.449
MCN5-COMP	5	108.000	140.000	21.6000	-0.922
TB	5	43.000	140.000	8.6000	-2.825

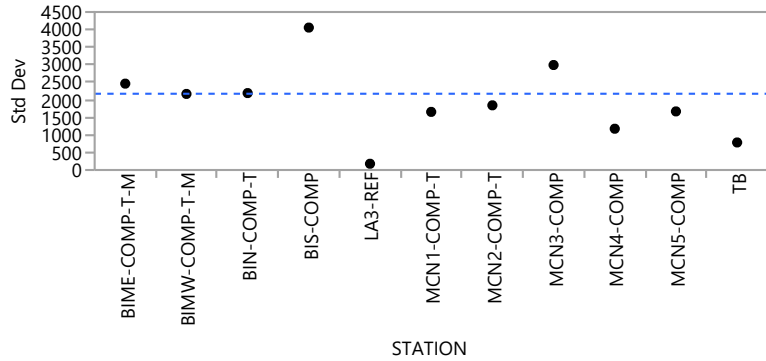
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
45.8182	10	<.0001*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=Total DDTs (ND = 0)**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	2459.721	2120.424	1876.020
BIMW-COMP-T-M	5	2166.678	1737.944	1704.240
BIN-COMP-T	5	2190.792	1547.946	1468.162
BIS-COMP	5	4055.895	3142.731	3081.656
LA3-REF	5	177.788	135.829	124.507
MCN1-COMP-T	5	1655.202	1174.175	870.514
MCN2-COMP-T	5	1842.038	1253.478	1198.332
MCN3-COMP	5	2990.034	1977.250	1927.992
MCN4-COMP	5	1175.414	904.272	845.880
MCN5-COMP	5	1668.757	1192.145	804.820
TB	5	784.129	660.973	606.506

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.7223	10	44	0.1057
Brown-Forsythe	1.5533	10	44	0.1532
Levene	2.3564	10	44	0.0249*
Bartlett	2.7571	10	.	0.0021*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*		Alpha		Score Mean		Hodges-Lehmann		Lower CL		Upper CL	
Level	- Level	Difference	Std Err Dif	Z	p-Value	Lehmann	Lower CL	Upper CL			
MCN1-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	4398.5	720.4	4991.5			
MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	9254.0	5946.1	11069.5			
MCN2-COMP-T	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	5168.0	1361.2	9070.8			
MCN3-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	9026.3	6037.0	14215.9			
MCN3-COMP	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	4742.4	1452.0	9897.7			
MCN4-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	11430.0	9562.4	12813.1			

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=Total DDTs (ND = 0)**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

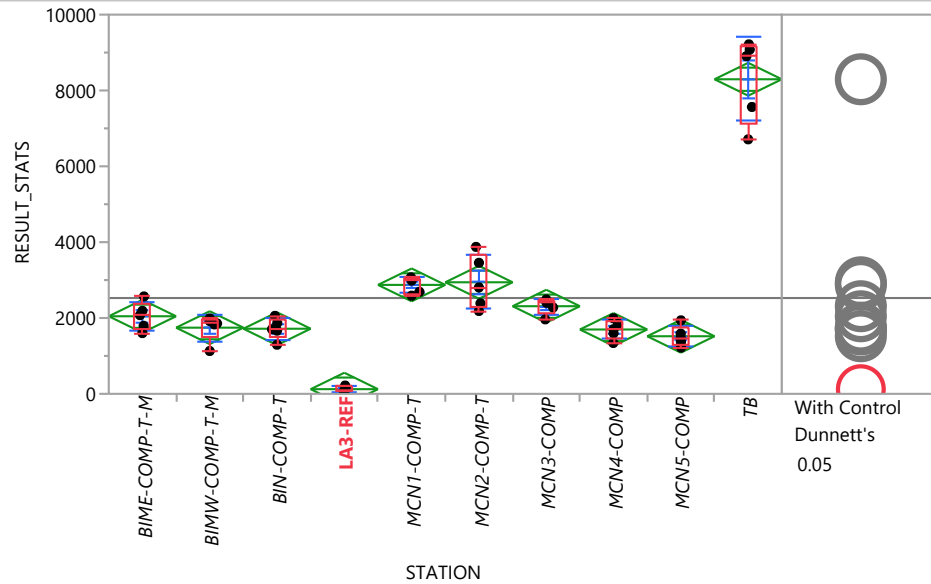
Level	- Level	Score Mean		Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
		Difference	Std Err Dif						
MCN4-COMP	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	7146.1	4977.5	10757.5	
MCN5-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	8152.7	4385.2	8555.9	
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1521.8	191.2	2193.5	
MCN5-COMP	MCN1-COMP-T	4.00000	1.914854	2.08893	0.0367*	3664.8	-199.8	7428.9	
MCN4-COMP	MCN2-COMP-T	3.60000	1.914854	1.88004	0.0601	1743.6	-570.3	5531.8	
MCN4-COMP	MCN3-COMP	2.80000	1.914854	1.46225	0.1437	2403.7	-3716.7	5440.9	
MCN4-COMP	BIS-COMP	2.00000	1.914854	1.04447	0.2963	1857.5	-4404.2	7017.7	
MCN4-COMP	BIN-COMP-T	0.40000	1.914854	0.20889	0.8345	317.7	-3915.5	3199.3	
MCN2-COMP-T	BIS-COMP	0.00000	1.914854	0.00000	1.0000	-318.5	-5980.5	5274.1	
MCN3-COMP	BIS-COMP	0.00000	1.914854	0.00000	1.0000	-185.5	-7045.8	8420.5	
MCN3-COMP	MCN2-COMP-T	0.00000	1.914854	0.00000	1.0000	-227.7	-3754.2	5293.0	
BIMW-COMP-T-M	BIME-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-757.2	-5344.0	3759.5	
BIS-COMP	BIN-COMP-T	-1.20000	1.914854	-0.62668	0.5309	-1882.1	-8619.3	4721.9	
MCN5-COMP	BIS-COMP	-1.60000	1.914854	-0.83557	0.4034	-1410.2	-6843.3	3221.2	
MCN5-COMP	MCN3-COMP	-1.60000	1.914854	-0.83557	0.4034	-1089.0	-6063.2	2112.4	
MCN2-COMP-T	BIN-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-1595.0	-5491.8	1512.6	
MCN3-COMP	BIN-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-2067.6	-6557.1	4034.4	
MCN5-COMP	MCN2-COMP-T	-3.20000	1.914854	-1.67115	0.0947	-1561.0	-5406.0	2203.2	
BIS-COMP	BIME-COMP-T-M	-3.60000	1.914854	-1.88004	0.0601	-7331.8	-12957.0	953.4	
TB	MCN1-COMP-T	-3.60000	1.914854	-1.88004	0.0601	-2762.1	-4393.7	1066.5	
BIN-COMP-T	BIME-COMP-T-M	-4.00000	1.914854	-2.08893	0.0367*	-4328.6	-9606.6	464.7	
BIN-COMP-T	BIMW-COMP-T-M	-4.00000	1.914854	-2.08893	0.0367*	-4262.6	-8779.3	710.4	
BIS-COMP	BIMW-COMP-T-M	-4.00000	1.914854	-2.08893	0.0367*	-6297.3	-12129.7	1199.1	
MCN3-COMP	BIME-COMP-T-M	-4.00000	1.914854	-2.08893	0.0367*	-6092.4	-11848.2	265.9	
MCN3-COMP	BIMW-COMP-T-M	-4.00000	1.914854	-2.08893	0.0367*	-6414.3	-11020.9	511.6	
MCN4-COMP	BIMW-COMP-T-M	-4.40000	1.914854	-2.29783	0.0216*	-4010.6	-7495.5	-891.2	
LA3-REF	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-14418.6	-18743.3	-13298.4	
LA3-REF	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-15440.6	-17708.8	-12541.2	
LA3-REF	BIN-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-10543.5	-14414.7	-8278.6	
LA3-REF	BIS-COMP	-4.80000	1.914854	-2.50672	0.0122*	-9572.5	-14903.4	-4928.2	
MCN1-COMP-T	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-12578.0	-17164.8	-8713.5	
MCN1-COMP-T	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-11820.8	-16337.5	-7956.3	
MCN1-COMP-T	BIN-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-6763.0	-10665.8	-3693.7	
MCN1-COMP-T	BIS-COMP	-4.80000	1.914854	-2.50672	0.0122*	-5288.6	-10585.2	-343.2	
MCN2-COMP-T	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-6998.7	-11939.1	-2880.5	
MCN2-COMP-T	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-6595.1	-11111.8	-2634.8	
MCN4-COMP	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-4034.0	-8322.8	-1136.9	
MCN5-COMP	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-8913.2	-13500.0	-5149.1	
MCN5-COMP	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-8156.0	-12672.7	-4391.9	
MCN5-COMP	BIN-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-3156.6	-7001.0	-129.3	
MCN5-COMP	MCN4-COMP	-4.80000	1.914854	-2.50672	0.0122*	-3328.6	-7092.7	-1413.1	
TB	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-13575.8	-18041.9	-11511.5	
TB	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-13918.9	-17007.4	-10754.3	
TB	BIN-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-9480.1	-13713.3	-6491.7	

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=Total DDTs (ND = 0)**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	BIS-COMP	-4.80000	1.914854	-2.50672	0.0122*	-8050.8	-14202.0	-3141.2
TB	MCN2-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-8004.3	-10368.1	-4159.2
TB	MCN3-COMP	-4.80000	1.914854	-2.50672	0.0122*	-7483.3	-13514.5	-4250.0
TB	MCN4-COMP	-4.80000	1.914854	-2.50672	0.0122*	-9797.8	-12111.7	-7775.5
TB	MCN5-COMP	-4.80000	1.914854	-2.50672	0.0122*	-6442.7	-7958.1	-2598.2

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=Total PCB Congeners (ND = 0)**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	1601.54	1601.54	1698.045	2075.68	2378.465	2568.29	2568.29
BIMW-COMP-T-M	1129.27	1129.27	1480.11	1856.6	1953.72	1988	1988
BIN-COMP-T	1295.08	1295.08	1480.3	1703.45	1960.735	2056.25	2056.25
LA3-REF	67.7419	67.7419	71.37095	78.9474	196.7105	218.421	218.421
MCN1-COMP-T	2588.64	2588.64	2639.775	2985.71	3049.455	3071.88	3071.88
MCN2-COMP-T	2185.11	2185.11	2286.815	2805.71	3665.44	3875	3875
MCN3-COMP	1964.29	1964.29	2120.895	2402.33	2454.72	2490	2490
MCN4-COMP	1340.74	1340.74	1468.98	1704.55	1920.715	1991.43	1991.43
MCN5-COMP	1220	1220	1293.96	1478.79	1763.405	1938.24	1938.24
TB	6711.36	6711.36	7138.11	8906.06	9147.6	9216.13	9216.13

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=Total PCB Congeners (ND = 0)**

**Oneway Anova**

**Summary of Fit**

Rsquare	0.958615
Adj Rsquare	0.949304
Root Mean Square Error	479.4583
Mean of Response	2526.73
Observations (or Sum Wgts)	50

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	9	212992547	23665839	102.9485	<.0001*
Error	40	9195212	229880.3		
C. Total	49	222187759			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	2045.74	214.42	1612	2479.1
BIMW-COMP-T-M	5	1744.85	214.42	1311	2178.2
BIN-COMP-T	5	1717.10	214.42	1284	2150.5
LA3-REF	5	123.02	214.42	-310	556.4
MCN1-COMP-T	5	2872.83	214.42	2439	3306.2
MCN2-COMP-T	5	2942.04	214.42	2509	3375.4
MCN3-COMP	5	2310.71	214.42	1877	2744.1
MCN4-COMP	5	1696.79	214.42	1263	2130.1
MCN5-COMP	5	1518.70	214.42	1085	1952.1
TB	5	8295.50	214.42	7862	8728.9

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	2045.74	372.42	166.55	1583.3	2508.2
BIMW-COMP-T-M	5	1744.85	349.44	156.28	1311.0	2178.7
BIN-COMP-T	5	1717.10	281.92	126.08	1367.1	2067.2
LA3-REF	5	123.02	69.11	30.91	37.2	208.8
MCN1-COMP-T	5	2872.83	217.94	97.47	2602.2	3143.4
MCN2-COMP-T	5	2942.04	712.80	318.78	2057.0	3827.1
MCN3-COMP	5	2310.71	208.25	93.13	2052.1	2569.3
MCN4-COMP	5	1696.79	248.51	111.14	1388.2	2005.4
MCN5-COMP	5	1518.70	271.31	121.34	1181.8	1855.6
TB	5	8295.50	1104.27	493.85	6924.4	9666.6

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF



**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=Total PCB Congeners (ND = 0)**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**Confidence Quantile**

d	Alpha
2.81175	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	7320	<.0001*
MCN2-COMP-T	1966	<.0001*
MCN1-COMP-T	1897	<.0001*
MCN3-COMP	1335	<.0001*
BIME-COMP-T-M	1070	<.0001*
BIMW-COMP-T-M	769.2	<.0001*
BIN-COMP-T	741.5	<.0001*
MCN4-COMP	721.1	<.0001*
MCN5-COMP	543.1	0.0003*
LA3-REF	-853	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	129.000	127.500	25.8000	0.032
BIMW-COMP-T-M	5	95.000	127.500	19.0000	-1.035
BIN-COMP-T	5	89.000	127.500	17.8000	-1.229
LA3-REF	5	15.000	127.500	3.0000	-3.622
MCN1-COMP-T	5	203.000	127.500	40.6000	2.425
MCN2-COMP-T	5	192.000	127.500	38.4000	2.070
MCN3-COMP	5	162.000	127.500	32.4000	1.099
MCN4-COMP	5	86.000	127.500	17.2000	-1.326
MCN5-COMP	5	64.000	127.500	12.8000	-2.037
TB	5	240.000	127.500	48.0000	3.622

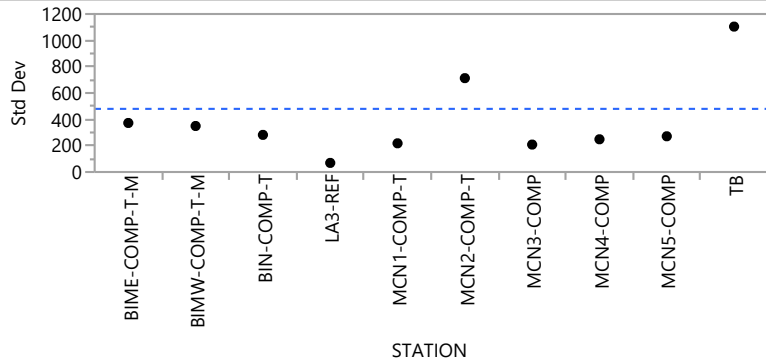
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
42.0315	9	<.0001*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=Total PCB Congeners (ND = 0)**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	372.420	278.1560	272.1680
BIMW-COMP-T-M	5	349.444	246.2328	189.4440
BIN-COMP-T	5	281.918	194.9048	192.1740
LA3-REF	5	69.114	58.9508	50.1358
MCN1-COMP-T	5	217.945	186.4472	163.8720
MCN2-COMP-T	5	712.804	578.7168	551.4500
MCN3-COMP	5	208.249	151.8536	133.5300
MCN4-COMP	5	248.512	182.2464	180.6940
MCN5-COMP	5	271.314	195.7608	187.7780
TB	5	1104.271	925.9088	803.7960

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	3.5776	9	40	0.0024*
Brown-Forsythe	1.9755	9	40	0.0683
Levene	7.9098	9	40	<.0001*
Bartlett	3.7903	9	.	<.0001*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

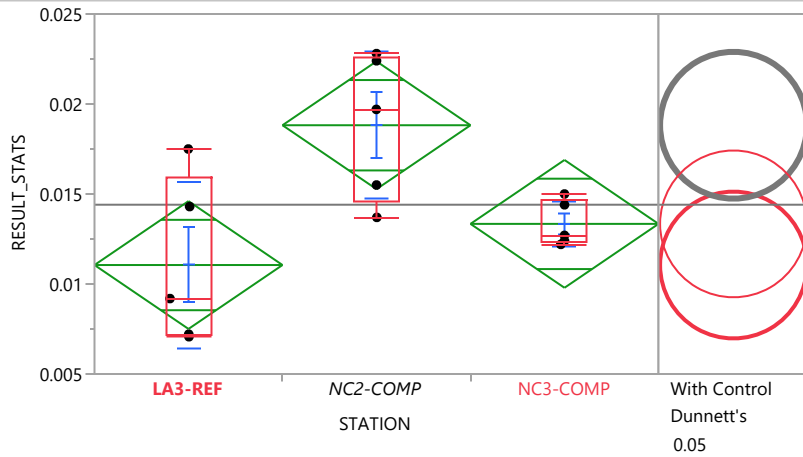
q*		Alpha							
1.95996		0.05							
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
MCN1-COMP-T	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	883.24	122.62	1425.49	
MCN1-COMP-T	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	1107.59	669.20	1897.76	
MCN1-COMP-T	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	1161.81	634.66	1731.95	
MCN1-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	2810.71	2413.64	2996.88	
MCN2-COMP-T	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	1055.84	265.67	2326.61	
MCN2-COMP-T	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	1102.26	319.89	2209.48	
MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	2726.76	2010.11	3800.00	

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=Total PCB Congeners (ND = 0)**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
MCN3-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	2227.33	1789.29	2415.00	
MCN4-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1625.60	1165.74	1916.43	
MCN5-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1370.15	1045.00	1863.24	
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	6647.84	4522.72	7477.53	
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	7049.46	4791.92	7949.80	
TB	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	7040.84	4846.14	7783.99	
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	8827.11	6536.36	9141.13	
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	5920.35	3684.33	6525.22	
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	5379.75	3255.48	6893.96	
TB	MCN3-COMP	4.80000	1.914854	2.50672	0.0122*	6503.73	4291.92	7114.78	
TB	MCN4-COMP	4.80000	1.914854	2.50672	0.0122*	7087.64	4861.36	7738.33	
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	7277.89	5122.79	7859.07	
MCN3-COMP	BIMW-COMP-T-M	4.40000	1.914854	2.29783	0.0216*	502.00	44.85	1290.17	
MCN3-COMP	BIN-COMP-T	4.40000	1.914854	2.29783	0.0216*	611.98	99.07	1124.36	
MCN2-COMP-T	BIME-COMP-T-M	3.60000	1.914854	1.88004	0.0601	786.98	-179.77	2080.45	
MCN3-COMP	BIME-COMP-T-M	2.00000	1.914854	1.04447	0.2963	301.36	-290.79	817.90	
MCN2-COMP-T	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	-180.00	-841.92	1184.09	
MCN4-COMP	BIN-COMP-T	0.00000	1.914854	0.00000	1.0000	-15.22	-524.48	554.92	
BIN-COMP-T	BIMW-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-122.78	-624.36	735.95	
MCN4-COMP	BIMW-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-126.40	-578.70	720.73	
BIMW-COMP-T-M	BIME-COMP-T-M	-1.60000	1.914854	-0.83557	0.4034	-244.73	-1059.37	317.90	
MCN5-COMP	BIMW-COMP-T-M	-1.60000	1.914854	-0.83557	0.4034	-352.16	-699.44	459.30	
MCN3-COMP	MCN2-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-424.23	-1597.50	234.33	
MCN5-COMP	BIN-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-224.66	-688.33	293.49	
MCN5-COMP	MCN4-COMP	-2.00000	1.914854	-1.04447	0.2963	-225.76	-630.00	341.02	
BIN-COMP-T	BIME-COMP-T-M	-2.40000	1.914854	-1.25336	0.2101	-323.42	-902.77	263.68	
MCN4-COMP	BIME-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-338.64	-971.07	248.46	
MCN5-COMP	BIME-COMP-T-M	-4.00000	1.914854	-2.08893	0.0367*	-574.55	-1200.37	143.69	
MCN4-COMP	MCN3-COMP	-4.40000	1.914854	-2.29783	0.0216*	-623.55	-1078.70	-114.29	
LA3-REF	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-1970.22	-2493.29	-1426.54	
LA3-REF	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-1755.95	-1913.00	-954.27	
LA3-REF	BIN-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-1624.50	-1981.25	-1120.08	
MCN3-COMP	MCN1-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-583.38	-1062.74	-169.20	
MCN4-COMP	MCN1-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-1177.03	-1686.29	-699.48	
MCN4-COMP	MCN2-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-1101.16	-2277.78	-335.11	
MCN5-COMP	MCN1-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-1397.14	-1807.03	-752.67	
MCN5-COMP	MCN2-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-1326.92	-2507.08	-450.28	
MCN5-COMP	MCN3-COMP	-4.80000	1.914854	-2.50672	0.0122*	-830.87	-1199.44	-339.26	

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=Mercury**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
LA3-REF	0.00707	0.00707	0.00714	0.00919	0.0159	0.0175	0.0175
NC2-COMP	0.0137	0.0137	0.0146	0.0197	0.0226	0.0228	0.0228
NC3-COMP	0.0122	0.0122	0.0123	0.0127	0.0147	0.015	0.015

**Oneway Anova**

**Summary of Fit**

Rsquare	0.499887
Adj Rsquare	0.416534
Root Mean Square Error	0.003644
Mean of Response	0.014405
Observations (or Sum Wgts)	15

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	2	0.00015928	0.000080	5.9973	0.0156*
Error	12	0.00015935	0.000013		
C. Total	14	0.00031863			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
LA3-REF	5	0.011054	0.00163	0.00750	0.01460
NC2-COMP	5	0.018820	0.00163	0.01527	0.02237
NC3-COMP	5	0.013340	0.00163	0.00979	0.01689

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
LA3-REF	5	0.011054	0.0046425	0.0020762	0.0052896	0.0168184
NC2-COMP	5	0.01882	0.0040825	0.0018258	0.0137509	0.0238891
NC3-COMP	5	0.01334	0.001272	0.0005689	0.0117606	0.0149194

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.50237	0.05

**Oneway Analysis of RESULT\_STATS By STATION CHEM\_OUT=Mercury**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
NC2-COMP	0.002	0.0103*
NC3-COMP	-3e-3	0.5261
LA3-REF	-0.01	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

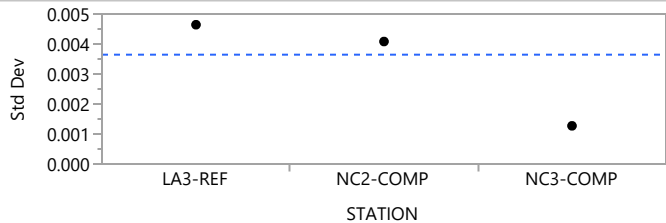
Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
LA3-REF	5	26.000	40.000	5.2000	-1.653
NC2-COMP	5	60.000	40.000	12.0000	2.388
NC3-COMP	5	34.000	40.000	6.8000	-0.674

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
6.3200	2	0.0424*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif	MeanAbsDif
			to Mean	to Median
LA3-REF	5	0.0046425	0.0038768	0.0035040
NC2-COMP	5	0.0040825	0.0033760	0.0032000
NC3-COMP	5	0.0012720	0.0010880	0.0009600

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	2.5986	2	12	0.1154
Brown-Forsythe	1.7697	2	12	0.2121
Levene	6.2277	2	12	0.0140*
Bartlett	2.5083	2	.	0.0814

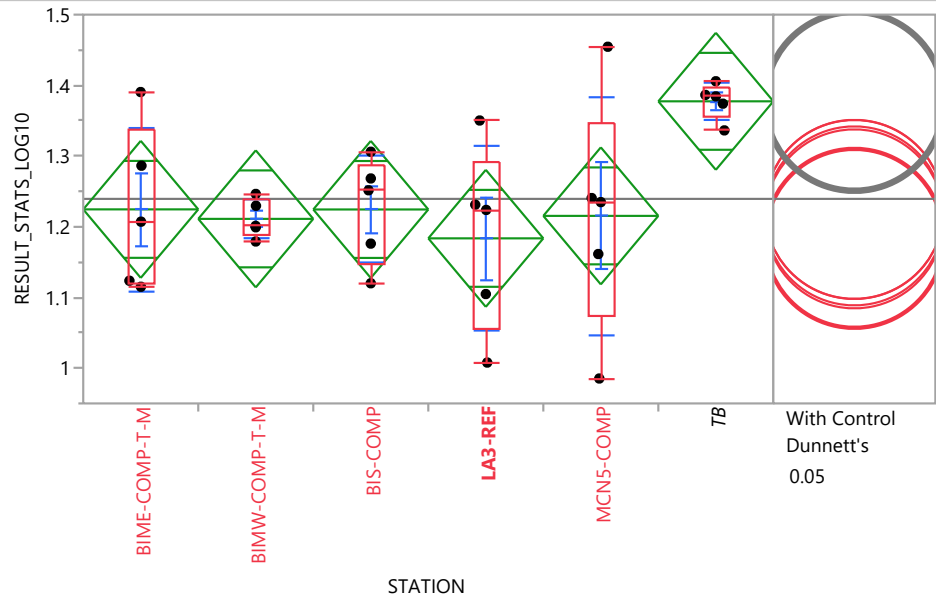
Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean	Std Err Dif	Z	p-Value	Hodges-	Lower CL	Upper CL	Difference Plot
		Difference				Lehmann			
NC2-COMP	LA3-REF	3.60000	1.914854	1.88004	0.0601	0.008100	-0.002000	0.0155900	
NC3-COMP	LA3-REF	1.60000	1.914854	0.83557	0.4034	0.003510	-0.005100	0.0077900	
NC3-COMP	NC2-COMP	-4.00000	1.914854	-2.08893	0.0367*	-0.007000	-0.010400	0.0007000	

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=2,4'-DDD**



Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	1.11507	1.11507	1.119325	1.20713	1.338415	1.39052	1.39052
BIMW-COMP-T-M	1.1791	1.1791	1.18913	1.20114	1.238005	1.24638	1.24638
BIS-COMP	1.11998	1.11998	1.148035	1.25154	1.287155	1.30605	1.30605
LA3-REF	1.00783	1.00783	1.056285	1.22373	1.290695	1.35025	1.35025
MCN5-COMP	0.985277	0.985277	1.073324	1.2348	1.34756	1.45457	1.45457
TB	1.33626	1.33626	1.355155	1.38437	1.396115	1.40577	1.40577

**Oneway Anova**

**Summary of Fit**

Rsquare	0.311791
Adj Rsquare	0.168415
Root Mean Square Error	0.105029
Mean of Response	1.23937
Observations (or Sum Wgts)	30

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	5	0.11994249	0.023988	2.1746	0.0908
Error	24	0.26474567	0.011031		
C. Total	29	0.38468817			

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=2,4'-DDD**

**Oneway Anova**

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.22452	0.04697	1.1276	1.3215
BIMW-COMP-T-M	5	1.21108	0.04697	1.1141	1.3080
BIS-COMP	5	1.22438	0.04697	1.1274	1.3213
LA3-REF	5	1.18354	0.04697	1.0866	1.2805
MCN5-COMP	5	1.21531	0.04697	1.1184	1.3123
TB	5	1.37738	0.04697	1.2804	1.4743

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.22452	0.116022	0.05189	1.0805	1.3686
BIMW-COMP-T-M	5	1.21108	0.026710	0.01195	1.1779	1.2442
BIS-COMP	5	1.22438	0.075107	0.03359	1.1311	1.3176
LA3-REF	5	1.18354	0.131107	0.05863	1.0207	1.3463
MCN5-COMP	5	1.21531	0.168884	0.07553	1.0056	1.4250
TB	5	1.37738	0.025687	0.01149	1.3455	1.4093

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.69532	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	0.015	0.0307*
BIME-COMP-T-M	-0.14	0.9568
BIS-COMP	-0.14	0.9573
MCN5-COMP	-0.15	0.9849
BIMW-COMP-T-M	-0.15	0.9919
LA3-REF	-0.18	1.0000

Positive values show pairs of means that are significantly different.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=2,4'-DDD**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

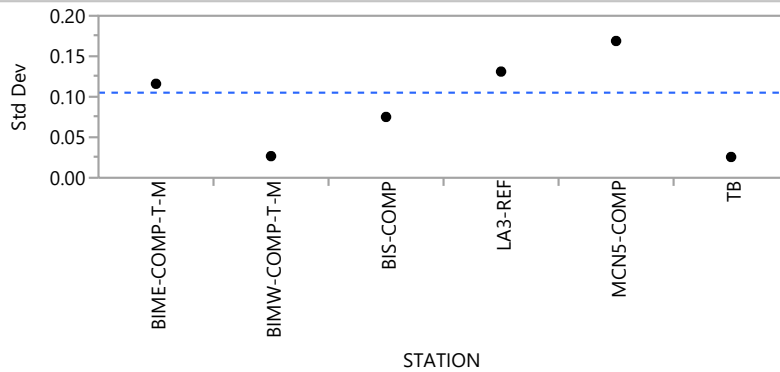
Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	71.000	77.500	14.2000	-0.334
BIMW-COMP-T-M	5	62.000	77.500	12.4000	-0.835
BIS-COMP	5	74.000	77.500	14.8000	-0.167
LA3-REF	5	57.000	77.500	11.4000	-1.113
MCN5-COMP	5	71.000	77.500	14.2000	-0.334
TB	5	130.000	77.500	26.0000	2.894

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
9.0671	5	0.1064

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif	MeanAbsDif
			to Mean	to Median
BIME-COMP-T-M	5	0.1160222	0.0911144	0.0876360
BIMW-COMP-T-M	5	0.0267105	0.0215384	0.0195500
BIS-COMP	5	0.0751072	0.0610792	0.0556480
LA3-REF	5	0.1311075	0.1018024	0.0937640
MCN5-COMP	5	0.1688838	0.1135919	0.1096946
TB	5	0.0256868	0.0177816	0.0163840

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.3865	5	24	0.2645
Brown-Forsythe	1.5769	5	24	0.2045
Levene	2.4139	5	24	0.0658
Bartlett	3.3779	5	.	0.0047*

Warning: Small sample sizes. Use Caution.

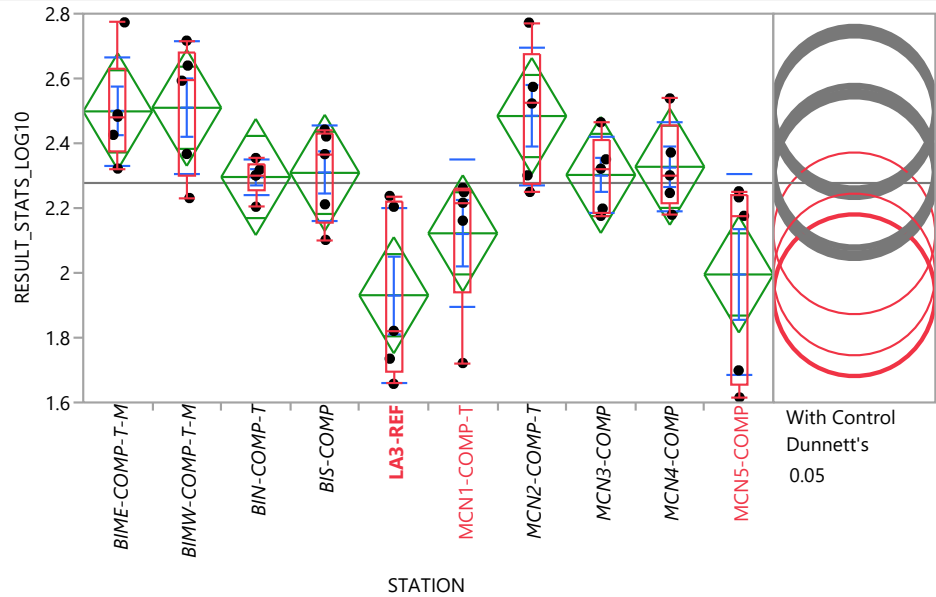


**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=2,4'-DDD**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

		q*	Alpha					
		1.95996	0.05					
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.172910	0.106630	0.2073600
TB	BIS-COMP	4.80000	1.914854	2.50672	0.0122*	0.134920	0.068000	0.2664800
TB	LA3-REF	4.40000	1.914854	2.29783	0.0216*	0.162730	0.023800	0.3786300
TB	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	0.177240	-0.016470	0.2821900
TB	MCN5-COMP	2.80000	1.914854	1.46225	0.1437	0.151660	-0.080520	0.4011830
BIS-COMP	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.021910	-0.109650	0.1068900
MCN5-COMP	LA3-REF	0.80000	1.914854	0.41779	0.6761	0.011070	-0.245863	0.3498300
BIMW-COMP-T-M	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.005990	-0.191360	0.1228000
BIS-COMP	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.004910	-0.214430	0.1824700
LA3-REF	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.005900	-0.221800	0.1510900
MCN5-COMP	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.027670	-0.301033	0.3309900
MCN5-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.005170	-0.244353	0.2554100
LA3-REF	BIME-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.040270	-0.285780	0.2266700
MCN5-COMP	BIS-COMP	-0.80000	1.914854	-0.41779	0.6761	-0.016740	-0.282983	0.2784800
LA3-REF	BIS-COMP	-1.20000	1.914854	-0.62668	0.5309	-0.037120	-0.260430	0.1741600

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=2,4'-DDE**



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=2,4'-DDE****Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	2.32196	2.32196	2.373965	2.48197	2.63112	2.77322	2.77322
BIMW-COMP-T-M	2.23099	2.23099	2.29906	2.59317	2.678275	2.7167	2.7167
BIN-COMP-T	2.20412	2.20412	2.252575	2.30103	2.336615	2.35447	2.35447
BIS-COMP	2.10187	2.10187	2.15675	2.36653	2.431685	2.44236	2.44236
LA3-REF	1.65758	1.65758	1.69638	1.82096	2.22074	2.23736	2.23736
MCN1-COMP-T	1.72171	1.72171	1.94143	2.21632	2.25564	2.26228	2.26228
MCN2-COMP-T	2.24988	2.24988	2.275455	2.52288	2.673215	2.7724	2.7724
MCN3-COMP	2.17609	2.17609	2.18723	2.32155	2.407705	2.46489	2.46489
MCN4-COMP	2.17945	2.17945	2.21306	2.30103	2.455	2.53839	2.53839
MCN5-COMP	1.61542	1.61542	1.657195	2.17609	2.24247	2.25181	2.25181

**Oneway Anova****Summary of Fit**

Rsquare	0.542563
Adj Rsquare	0.439639
Root Mean Square Error	0.19845
Mean of Response	2.277453
Observations (or Sum Wgts)	50

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	9	1.8684373	0.207604	5.2715	<.0001*
Error	40	1.5752896	0.039382		
C. Total	49	3.4437268			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	2.49843	0.08875	2.3191	2.6778
BIMW-COMP-T-M	5	2.50957	0.08875	2.3302	2.6889
BIN-COMP-T	5	2.29588	0.08875	2.1165	2.4753
BIS-COMP	5	2.30868	0.08875	2.1293	2.4880
LA3-REF	5	1.93104	0.08875	1.7517	2.1104
MCN1-COMP-T	5	2.12209	0.08875	1.9427	2.3015
MCN2-COMP-T	5	2.48404	0.08875	2.3047	2.6634
MCN3-COMP	5	2.30228	0.08875	2.1229	2.4817
MCN4-COMP	5	2.32743	0.08875	2.1481	2.5068
MCN5-COMP	5	1.99508	0.08875	1.8157	2.1745

Std Error uses a pooled estimate of error variance

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=2,4'-DDE**

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	2.49843	0.167527	0.07492	2.2904	2.7064
BIMW-COMP-T-M	5	2.50957	0.202954	0.09076	2.2576	2.7616
BIN-COMP-T	5	2.29588	0.055743	0.02493	2.2267	2.3651
BIS-COMP	5	2.30868	0.146649	0.06558	2.1266	2.4908
LA3-REF	5	1.93104	0.270954	0.12117	1.5946	2.2675
MCN1-COMP-T	5	2.12209	0.227194	0.10160	1.8400	2.4042
MCN2-COMP-T	5	2.48404	0.212769	0.09515	2.2199	2.7482
MCN3-COMP	5	2.30228	0.118175	0.05285	2.1555	2.4490
MCN4-COMP	5	2.32743	0.137453	0.06147	2.1568	2.4981
MCN5-COMP	5	1.99508	0.311113	0.13913	1.6088	2.3814

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
BIMW-COMP-T-M	0.226	0.0003*
BIME-COMP-T-M	0.214	0.0004*
MCN2-COMP-T	0.2	0.0006*
MCN4-COMP	0.043	0.0212*
BIS-COMP	0.025	0.0310*
MCN3-COMP	0.018	0.0351*
BIN-COMP-T	0.012	0.0398*
MCN1-COMP-T	-0.16	0.5633
MCN5-COMP	-0.29	0.9986
LA3-REF	-0.35	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	202.000	127.500	40.4000	2.394
BIMW-COMP-T-M	5	193.000	127.500	38.6000	2.103
BIN-COMP-T	5	128.500	127.500	25.7000	0.016
BIS-COMP	5	132.000	127.500	26.4000	0.129
LA3-REF	5	45.500	127.500	9.1000	-2.636
MCN1-COMP-T	5	73.000	127.500	14.6000	-1.747

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=2,4'-DDE**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

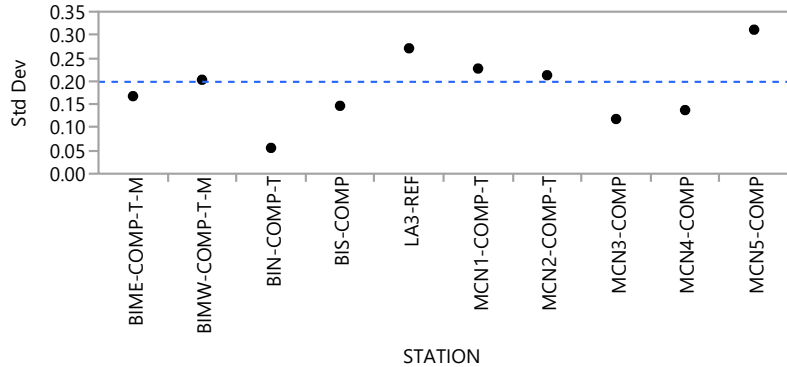
Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
MCN2-COMP-T	5	185.500	127.500	37.1000	1.860
MCN3-COMP	5	123.500	127.500	24.7000	-0.113
MCN4-COMP	5	137.500	127.500	27.5000	0.307
MCN5-COMP	5	54.500	127.500	10.9000	-2.345

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
26.7119	9	0.0016*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1675270	0.1099168	0.1028620
BIMW-COMP-T-M	5	0.2029536	0.1684064	0.1516860
BIN-COMP-T	5	0.0557432	0.0367048	0.0336160
BIS-COMP	5	0.1466493	0.1215440	0.1099740
LA3-REF	5	0.2709538	0.2317600	0.2097440
MCN1-COMP-T	5	0.2271940	0.1601528	0.1256840
MCN2-COMP-T	5	0.2127685	0.1668712	0.1591040
MCN3-COMP	5	0.1181753	0.0920432	0.0881900
MCN4-COMP	5	0.1374529	0.1020560	0.0967760
MCN5-COMP	5	0.3111131	0.2703112	0.2341100

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=2,4'-DDE**

**Tests that the Variances are Equal**

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.7721	9	40	0.1044
Brown-Forsythe	0.7933	9	40	0.6242
Levene	3.1936	9	40	0.0053*
Bartlett	1.3344	9	.	0.2127

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q\* Alpha  
1.95996 0.05

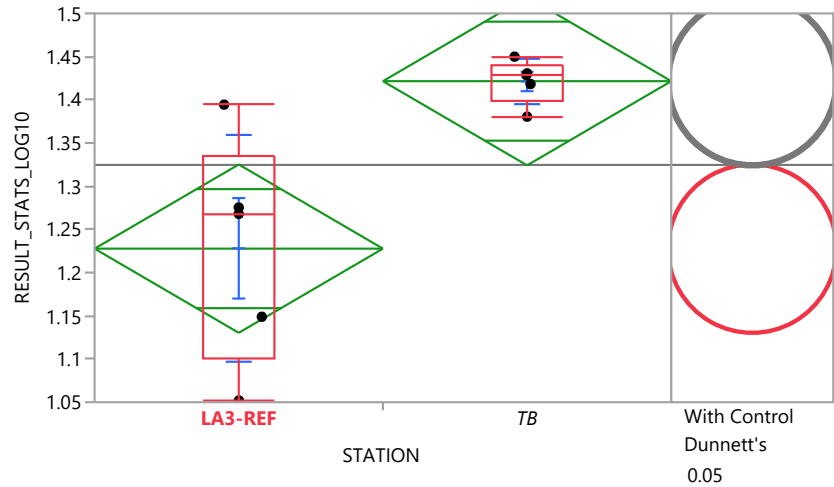
Level	- Level	Score Mean		Z	p-Value	Hodges-Lehmann			Figure
		Difference	Std Err Dif			Lower CL	Upper CL		
MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.565850	0.04576	1.03722	
MCN2-COMP-T	MCN1-COMP-T	4.40000	1.914854	2.29783	0.0216*	0.325030	0.00088	0.85232	
MCN4-COMP	LA3-REF	4.00000	1.914854	2.08893	0.0367*	0.444270	-0.02467	0.80321	
MCN3-COMP	LA3-REF	3.20000	1.914854	1.67115	0.0947	0.440910	-0.03899	0.72971	
MCN4-COMP	MCN1-COMP-T	2.80000	1.914854	1.46225	0.1437	0.122610	-0.06955	0.64990	
MCN2-COMP-T	BIS-COMP	2.40000	1.914854	1.25336	0.2101	0.153020	-0.17113	0.56077	
MCN3-COMP	MCN1-COMP-T	2.40000	1.914854	1.25336	0.2101	0.105230	-0.07291	0.62881	
MCN1-COMP-T	LA3-REF	2.00000	1.914854	1.04447	0.2963	0.064130	-0.48241	0.59142	
MCN2-COMP-T	BIN-COMP-T	2.00000	1.891501	1.05736	0.2903	0.219560	-0.06888	0.47137	
BIS-COMP	BIN-COMP-T	1.20000	1.909043	0.62859	0.5296	0.065500	-0.21689	0.21689	
MCN4-COMP	MCN3-COMP	0.40000	1.914854	0.20889	0.8345	0.021090	-0.21822	0.34002	
BIMW-COMP-T-M	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.045170	-0.40609	0.31789	
MCN2-COMP-T	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.000820	-0.47219	0.34643	
MCN3-COMP	BIN-COMP-T	0.00000	1.909043	0.00000	1.0000	0.002790	-0.15610	0.16386	
MCN4-COMP	BIN-COMP-T	0.00000	1.891501	0.00000	1.0000	0.000000	-0.13931	0.23736	
MCN4-COMP	BIS-COMP	0.00000	1.914854	0.00000	1.0000	0.005080	-0.24156	0.32676	
MCN5-COMP	LA3-REF	0.00000	1.914854	0.00000	1.0000	0.014450	-0.58870	0.57555	
MCN2-COMP-T	BIMW-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-0.065820	-0.41567	0.40527	
MCN3-COMP	BIS-COMP	-0.40000	1.914854	-0.20889	0.8345	-0.016010	-0.24492	0.25326	
MCN5-COMP	MCN1-COMP-T	-1.20000	1.914854	-0.62668	0.5309	-0.029150	-0.63358	0.51142	
MCN1-COMP-T	BIS-COMP	-2.00000	1.914854	-1.04447	0.2963	-0.172010	-0.69930	0.14713	
MCN4-COMP	MCN2-COMP-T	-2.20000	1.909043	-1.15241	0.2492	-0.151270	-0.52573	0.23736	
MCN3-COMP	MCN2-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-0.172360	-0.57403	0.16386	
MCN4-COMP	BIMW-COMP-T-M	-2.40000	1.914854	-1.25336	0.2101	-0.187680	-0.47003	0.17126	
BIS-COMP	BIMW-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-0.218840	-0.53798	0.19002	
MCN4-COMP	BIME-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-0.179300	-0.52655	0.11242	
MCN5-COMP	BIS-COMP	-2.80000	1.914854	-1.46225	0.1437	-0.209230	-0.80559	0.13126	
MCN5-COMP	MCN3-COMP	-3.00000	1.909043	-1.57147	0.1161	-0.213080	-0.76592	0.05704	
BIN-COMP-T	BIMW-COMP-T-M	-3.20000	1.909043	-1.67623	0.0937	-0.285380	-0.43573	0.08777	
BIS-COMP	BIME-COMP-T-M	-3.20000	1.914854	-1.67115	0.0947	-0.122490	-0.56159	0.09905	
MCN3-COMP	BIMW-COMP-T-M	-3.20000	1.914854	-1.67115	0.0947	-0.242650	-0.51833	0.11953	
LA3-REF	BIS-COMP	-3.60000	1.914854	-1.88004	0.0601	-0.390670	-0.76343	0.10225	

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=2,4'-DDE**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
MCN1-COMP-T	BIN-COMP-T	-3.60000	1.909043	-1.88576	0.0593	-0.092190	-0.59705	0.04488	
MCN3-COMP	BIME-COMP-T-M	-3.60000	1.914854	-1.88004	0.0601	-0.160420	-0.57485	0.03892	
MCN5-COMP	MCN4-COMP	-3.60000	1.914854	-1.88004	0.0601	-0.286580	-0.83942	0.05368	
MCN1-COMP-T	BIMW-COMP-T-M	-4.00000	1.914854	-2.08893	0.0367*	-0.390850	-0.91814	0.01801	
MCN5-COMP	BIMW-COMP-T-M	-4.00000	1.914854	-2.08893	0.0367*	-0.464890	-1.02443	0.00214	
MCN5-COMP	BIN-COMP-T	-4.00000	1.909043	-2.09529	0.0361*	-0.124940	-0.70334	0.02901	
LA3-REF	BIN-COMP-T	-4.20000	1.903214	-2.20679	0.0273*	-0.480070	-0.66118	0.00000	
BIN-COMP-T	BIME-COMP-T-M	-4.40000	1.909043	-2.30482	0.0212*	-0.170260	-0.47219	-0.00320	
LA3-REF	BIMW-COMP-T-M	-4.40000	1.914854	-2.29783	0.0216*	-0.546170	-0.98227	-0.02687	
MCN5-COMP	MCN2-COMP-T	-4.40000	1.914854	-2.29783	0.0216*	-0.520590	-1.07343	-0.01675	
LA3-REF	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.605010	-1.03804	-0.11784	
MCN1-COMP-T	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.265650	-0.76731	-0.07296	
MCN5-COMP	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.521410	-1.07425	-0.08883	

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=2,4'-DDT**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
LA3-REF	1.05203	1.05203	1.100485	1.26794	1.334895	1.39445	1.39445
TB	1.38047	1.38047	1.39936	1.42857	1.440315	1.44997	1.44997

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=2,4'-DDT**

**Oneway Anova**

**Summary of Fit**

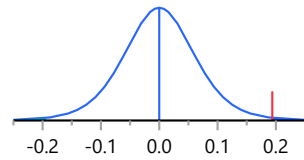
Rsquare	0.568173
Adj Rsquare	0.514195
Root Mean Square Error	0.094469
Mean of Response	1.324662
Observations (or Sum Wgts)	10

**t Test**

TB-LA3-REF

Assuming equal variances

Difference	0.193844	t Ratio	3.244373
Std Err Dif	0.059748	DF	8
Upper CL Dif	0.331623	Prob >  t	0.0118*
Lower CL Dif	0.056065	Prob > t	0.0059*
Confidence	0.95	Prob < t	0.9941



**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	1	0.09393874	0.093939	10.5260	0.0118*
Error	8	0.07139589	0.008924		
C. Total	9	0.16533463			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
LA3-REF	5	1.22774	0.04225	1.1303	1.3252
TB	5	1.42158	0.04225	1.3242	1.5190

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

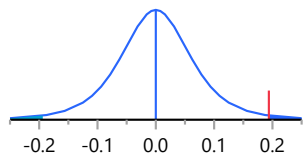
Level	Number	Mean	Std Dev	Std Err	Lower 95%	Upper 95%
LA3-REF	5	1.22774	0.131108	0.05863	1.0649	1.3905
TB	5	1.42158	0.025683	0.01149	1.3897	1.4535

**t Test**

TB-LA3-REF

Assuming unequal variances

Difference	0.193844	t Ratio	3.244373
Std Err Dif	0.059748	DF	4.306531
Upper CL Dif	0.355176	Prob >  t	0.0283*
Lower CL Dif	0.032512	Prob > t	0.0142*
Confidence	0.95	Prob < t	0.9858



**Means Comparisons**

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=2,4'-DDT**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.30600	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	0.056	0.0118*
LA3-REF	-0.14	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
LA3-REF	5	16.000	27.500	3.20000	-2.298
TB	5	39.000	27.500	7.80000	2.298

**2-Sample Test, Normal Approximation**

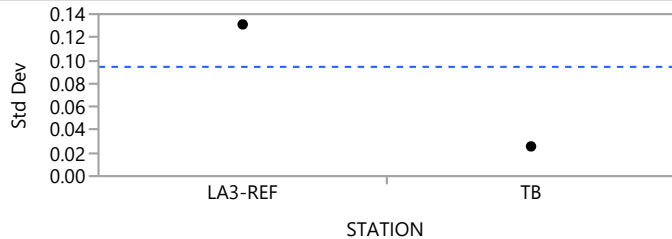
S	Z	Prob> Z
39	2.29783	0.0216*

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
5.7709	1	0.0163*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
LA3-REF	5	0.1311082	0.1018040	0.0937640
TB	5	0.0256828	0.0177792	0.0163820



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=2,4'-DDT**

**Tests that the Variances are Equal**

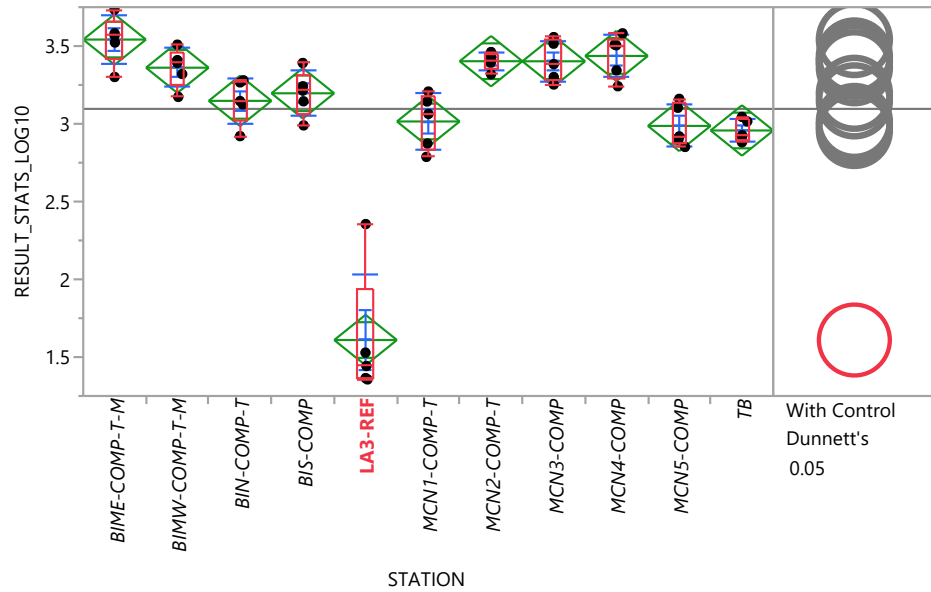
Test	F Ratio	DFNum	DFDen	p-Value
O'Brien[.5]	3.1013	1	8	0.1163
Brown-Forsythe	3.4794	1	8	0.0991
Levene	7.8468	1	8	0.0232*
Bartlett	6.9313	1	.	0.0085*
F Test 2-sided	26.0601	4	4	0.0080*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*		Alpha						
1.95996		0.05						
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	LA3-REF	4.400000	1.914854	2.297825	0.0216*	0.1627200	0.0238000	0.3786300

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=4,4'-DDD**



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=4,4'-DDD**

**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	3.30103	3.30103	3.411955	3.56864	3.658195	3.7343	3.7343
BIMW-COMP-T-M	3.173	3.173	3.24667	3.39195	3.459305	3.50909	3.50909
BIN-COMP-T	2.92082	2.92082	3.02288	3.14613	3.273055	3.27984	3.27984
BIS-COMP	2.9899	2.9899	3.06729	3.21388	3.3164	3.39121	3.39121
LA3-REF	1.35655	1.35655	1.36085	1.44275	1.94205	2.35539	2.35539
MCN1-COMP-T	2.78739	2.78739	2.830305	3.06391	3.175515	3.20761	3.20761
MCN2-COMP-T	3.31876	3.31876	3.35565	3.40749	3.44696	3.46161	3.46161
MCN3-COMP	3.25273	3.25273	3.27688	3.3837	3.536485	3.55764	3.55764
MCN4-COMP	3.24159	3.24159	3.292585	3.50515	3.545885	3.58186	3.58186
MCN5-COMP	2.85126	2.85126	2.8749	2.91908	3.131825	3.16058	3.16058
TB	2.88114	2.88114	2.899305	2.92689	3.03016	3.04481	3.04481

**Oneway Anova**

**Summary of Fit**

Rsquare	0.908597
Adj Rsquare	0.887824
Root Mean Square Error	0.179927
Mean of Response	3.095996
Observations (or Sum Wgts)	55

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	10	14.159775	1.41598	43.7386	<.0001*
Error	44	1.424439	0.03237		
C. Total	54	15.584214			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	3.54179	0.08047	3.3796	3.7040
BIMW-COMP-T-M	5	3.36078	0.08047	3.1986	3.5229
BIN-COMP-T	5	3.14760	0.08047	2.9854	3.3098
BIS-COMP	5	3.19625	0.08047	3.0341	3.3584
LA3-REF	5	1.60971	0.08047	1.4475	1.7719
MCN1-COMP-T	5	3.01511	0.08047	2.8529	3.1773
MCN2-COMP-T	5	3.40254	0.08047	3.2404	3.5647
MCN3-COMP	5	3.40209	0.08047	3.2399	3.5643
MCN4-COMP	5	3.43642	0.08047	3.2743	3.5986
MCN5-COMP	5	2.98651	0.08047	2.8243	3.1487
TB	5	2.95716	0.08047	2.7950	3.1193

Std Error uses a pooled estimate of error variance

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=4,4'-DDD**

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	3.54179	0.156307	0.06990	3.3477	3.7359
BIMW-COMP-T-M	5	3.36078	0.124739	0.05579	3.2059	3.5157
BIN-COMP-T	5	3.14760	0.144495	0.06462	2.9682	3.3270
BIS-COMP	5	3.19625	0.146301	0.06543	3.0146	3.3779
LA3-REF	5	1.60971	0.422604	0.18899	1.0850	2.1344
MCN1-COMP-T	5	3.01511	0.178809	0.07997	2.7931	3.2371
MCN2-COMP-T	5	3.40254	0.053664	0.02400	3.3359	3.4692
MCN3-COMP	5	3.40209	0.132173	0.05911	3.2380	3.5662
MCN4-COMP	5	3.43642	0.139513	0.06239	3.2632	3.6096
MCN5-COMP	5	2.98651	0.136441	0.06102	2.8171	3.1559
TB	5	2.95716	0.069566	0.03111	2.8708	3.0435

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.83292	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
BIME-COMP-T-M	1.61	<.0001*
MCN4-COMP	1.504	<.0001*
MCN2-COMP-T	1.47	<.0001*
MCN3-COMP	1.47	<.0001*
BIMW-COMP-T-M	1.429	<.0001*
BIS-COMP	1.264	<.0001*
BIN-COMP-T	1.216	<.0001*
MCN1-COMP-T	1.083	<.0001*
MCN5-COMP	1.054	<.0001*
TB	1.025	<.0001*
LA3-REF	-0.32	1.0000

Positive values show pairs of means that are significantly different.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=4,4'-DDD**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

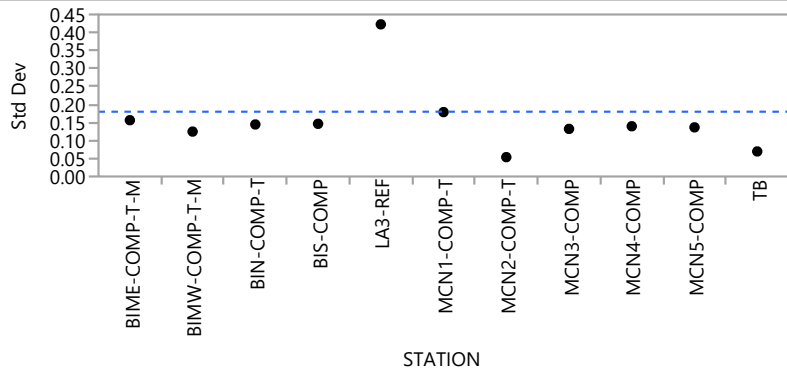
Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	244.500	140.000	48.9000	3.045
BIMW-COMP-T-M	5	191.000	140.000	38.2000	1.479
BIN-COMP-T	5	119.000	140.000	23.8000	-0.600
BIS-COMP	5	131.500	140.000	26.3000	-0.234
LA3-REF	5	15.000	140.000	3.0000	-3.645
MCN1-COMP-T	5	79.000	140.000	15.8000	-1.771
MCN2-COMP-T	5	207.000	140.000	41.4000	1.947
MCN3-COMP	5	201.500	140.000	40.3000	1.786
MCN4-COMP	5	212.500	140.000	42.5000	2.108
MCN5-COMP	5	72.000	140.000	14.4000	-1.976
TB	5	67.000	140.000	13.4000	-2.123

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
44.3105	10	<.0001*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif	
			to Mean	to Median
BIME-COMP-T-M	5	0.1563075	0.1038664	0.0984960
BIMW-COMP-T-M	5	0.1247395	0.0912880	0.0850540
BIN-COMP-T	5	0.1444946	0.1003640	0.1000700
BIS-COMP	5	0.1463008	0.1031696	0.0996440
LA3-REF	5	0.4226035	0.2982720	0.2324800
MCN1-COMP-T	5	0.1788088	0.1478440	0.1380840
MCN2-COMP-T	5	0.0536636	0.0375136	0.0365240
MCN3-COMP	5	0.1321730	0.1075192	0.1038420

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=4,4'-DDD**

**Tests that the Variances are Equal**

Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
MCN4-COMP	5	0.1395129	0.1150664	0.1013200
MCN5-COMP	5	0.1364411	0.1162552	0.1027700
TB	5	0.0695663	0.0583968	0.0523420

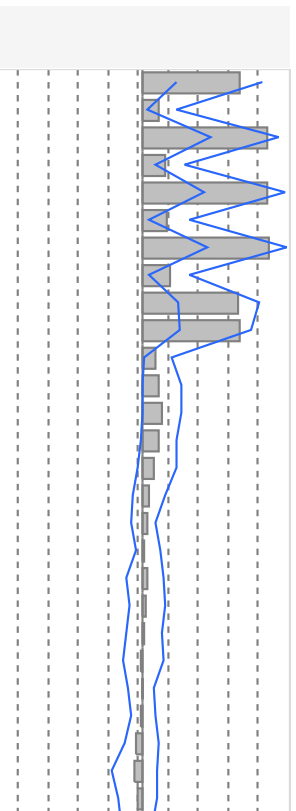
Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[5]	1.1065	10	44	0.3787
Brown-Forsythe	0.6120	10	44	0.7952
Levene	2.1714	10	44	0.0382*
Bartlett	2.2625	10	.	0.0122*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q\* 1.95996  
Alpha 0.05

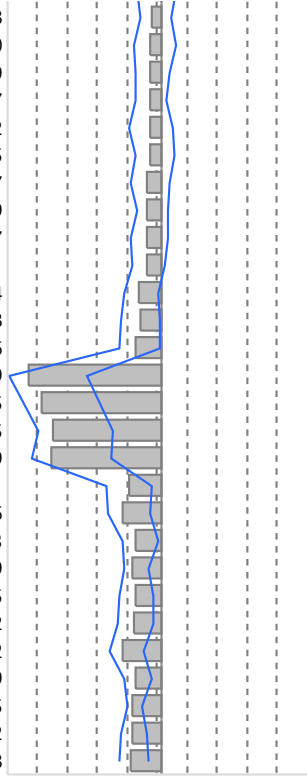
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
MCN1-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.51667	0.51783	1.84246
MCN2-COMP-T	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.24641	0.05249	0.51149
MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.95361	1.03715	2.09646
MCN2-COMP-T	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.34358	0.17534	0.64492
MCN3-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.93588	0.94564	2.19249
MCN3-COMP	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.37951	0.09342	0.72794
MCN4-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.97843	0.98819	2.21671
MCN4-COMP	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.43844	0.09817	0.72252
MCN5-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.49471	0.54315	1.79543
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.51599	0.56208	1.67966
MCN2-COMP-T	BIS-COMP	4.40000	1.914854	2.29783	0.0216*	0.19361	0.00133	0.44241
MCN3-COMP	BIN-COMP-T	4.00000	1.914854	2.08893	0.0367*	0.24906	-0.01354	0.59451
MCN4-COMP	BIN-COMP-T	4.00000	1.914854	2.08893	0.0367*	0.30202	-0.02468	0.58909
MCN4-COMP	BIS-COMP	3.80000	1.909043	1.99053	0.0465*	0.26356	-0.04763	0.52001
MCN3-COMP	BIS-COMP	3.60000	1.914854	1.88004	0.0601	0.16982	-0.09018	0.52543
MCN4-COMP	BIMW-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.09563	-0.16793	0.33691
MCN4-COMP	MCN2-COMP-T	1.20000	1.914854	0.62668	0.5309	0.07284	-0.19072	0.19115
MCN2-COMP-T	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.02279	-0.11655	0.25931
BIS-COMP	BIN-COMP-T	0.40000	1.914854	0.20889	0.8345	0.06775	-0.27637	0.32077
MCN3-COMP	BIMW-COMP-T-M	0.40000	1.914854	0.20889	0.8345	0.04855	-0.20806	0.34233
MCN4-COMP	MCN3-COMP	0.00000	1.914854	0.00000	1.0000	0.02422	-0.27374	0.28083
MCN5-COMP	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	-0.02196	-0.30907	0.31568
TB	MCN5-COMP	0.00000	1.914854	0.00000	1.0000	-0.00161	-0.24311	0.16425
MCN3-COMP	MCN2-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.01773	-0.17958	0.19657
TB	MCN1-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.09861	-0.29014	0.22812
MCN1-COMP-T	BIN-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-0.12285	-0.47888	0.22260
MCN4-COMP	BIME-COMP-T-M	-2.40000	1.914854	-1.25336	0.2101	-0.07218	-0.39072	0.20888



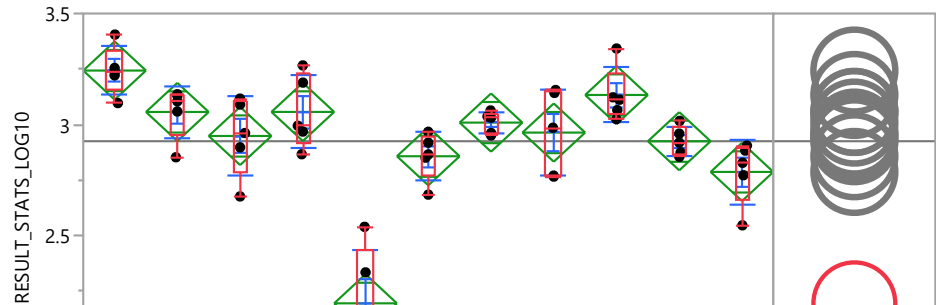
**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=4,4'-DDD**

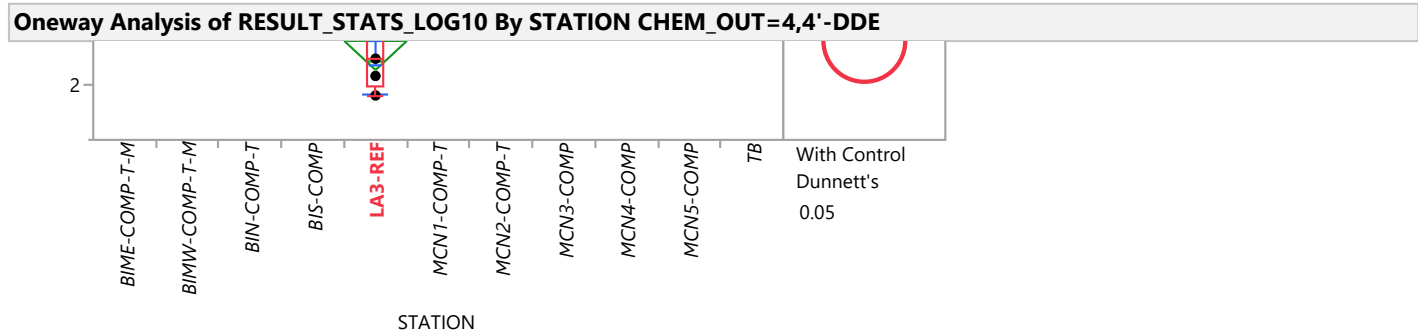
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
MCN2-COMP-T	BIME-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-0.14978	-0.34176	0.13128
MCN3-COMP	BIME-COMP-T-M	-3.00000	1.909043	-1.57147	0.1161	-0.17666	-0.43327	0.21430
BIMW-COMP-T-M	BIME-COMP-T-M	-3.20000	1.914854	-1.67115	0.0947	-0.17669	-0.41396	0.10849
BIS-COMP	BIMW-COMP-T-M	-3.20000	1.914854	-1.67115	0.0947	-0.17566	-0.41962	0.07087
MCN1-COMP-T	BIS-COMP	-3.20000	1.914854	-1.67115	0.0947	-0.17768	-0.51799	0.15352
MCN5-COMP	BIN-COMP-T	-3.20000	1.914854	-1.67115	0.0947	-0.17677	-0.41501	0.18225
MCN5-COMP	BIS-COMP	-3.60000	1.914854	-1.88004	0.0601	-0.23063	-0.49267	0.11317
TB	BIN-COMP-T	-3.60000	1.914854	-1.88004	0.0601	-0.22146	-0.38513	0.09469
BIN-COMP-T	BIMW-COMP-T-M	-4.00000	1.914854	-2.08893	0.0367*	-0.22925	-0.48870	0.09327
TB	BIS-COMP	-4.00000	1.914854	-2.08893	0.0367*	-0.22721	-0.47374	0.02561
BIS-COMP	BIME-COMP-T-M	-4.40000	1.914854	-2.29783	0.0216*	-0.34309	-0.59219	-0.05944
MCN1-COMP-T	BIMW-COMP-T-M	-4.40000	1.914854	-2.29783	0.0216*	-0.32804	-0.63587	-0.02958
BIN-COMP-T	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.39794	-0.66127	-0.03476
LA3-REF	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-2.08013	-2.36915	-1.16749
LA3-REF	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-1.88081	-2.14394	-0.96495
LA3-REF	BIN-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-1.70338	-1.91469	-0.76955
LA3-REF	BIS-COMP	-4.80000	1.914854	-2.50672	0.0122*	-1.71288	-2.02606	-0.78929
MCN1-COMP-T	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.51364	-0.86108	-0.15761
MCN5-COMP	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.60380	-0.83576	-0.19796
MCN5-COMP	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.40126	-0.61055	-0.06993
MCN5-COMP	MCN2-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-0.46750	-0.58105	-0.21569
MCN5-COMP	MCN3-COMP	-4.80000	1.914854	-2.50672	0.0122*	-0.40249	-0.66407	-0.14045
MCN5-COMP	MCN4-COMP	-4.80000	1.914854	-2.50672	0.0122*	-0.42450	-0.68332	-0.13852
TB	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.60541	-0.81683	-0.28552
TB	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.40287	-0.59162	-0.15749
TB	MCN2-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-0.44610	-0.55117	-0.30325
TB	MCN3-COMP	-4.80000	1.914854	-2.50672	0.0122*	-0.45681	-0.64017	-0.23722
TB	MCN4-COMP	-4.80000	1.914854	-2.50672	0.0122*	-0.48964	-0.66439	-0.22608



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=4,4'-DDE**





Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	3.09691	3.09691	3.15938	3.23764	3.329985	3.40524	3.40524
BIMW-COMP-T-M	2.85295	2.85295	2.956035	3.10474	3.133725	3.13668	3.13668
BIN-COMP-T	2.67669	2.67669	2.78716	2.96221	3.103645	3.11711	3.11711
BIS-COMP	2.86666	2.86666	2.917625	2.99492	3.227665	3.26627	3.26627
LA3-REF	1.94983	1.94983	1.99381	2.11539	2.4374	2.53991	2.53991
MCN1-COMP-T	2.68473	2.68473	2.767895	2.8658	2.94301	2.96733	2.96733
MCN2-COMP-T	2.95139	2.95139	2.9568	3.03103	3.050325	3.06367	3.06367
MCN3-COMP	2.76592	2.76592	2.76819	2.98576	3.14916	3.15565	3.15565
MCN4-COMP	3.02454	3.02454	3.04483	3.11197	3.23269	3.34242	3.34242
MCN5-COMP	2.85532	2.85532	2.86519	2.91908	2.988095	3.01681	3.01681
TB	2.54668	2.54668	2.659335	2.82806	2.894165	2.90544	2.90544

Oneway Anova

Summary of Fit

Rsquare	0.800089
Adj Rsquare	0.754655
Root Mean Square Error	0.145382
Mean of Response	2.925251
Observations (or Sum Wgts)	55

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	10	3.7219825	0.372198	17.6098	<.0001*
Error	44	0.9299766	0.021136		
C. Total	54	4.6519591			

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=4,4'-DDE**

**Oneway Anova**

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	3.24327	0.06502	3.1122	3.3743
BIMW-COMP-T-M	5	3.05685	0.06502	2.9258	3.1879
BIN-COMP-T	5	2.94876	0.06502	2.8177	3.0798
BIS-COMP	5	3.05710	0.06502	2.9261	3.1881
LA3-REF	5	2.19556	0.06502	2.0645	2.3266
MCN1-COMP-T	5	2.85752	0.06502	2.7265	2.9886
MCN2-COMP-T	5	3.00906	0.06502	2.8780	3.1401
MCN3-COMP	5	2.96409	0.06502	2.8331	3.0951
MCN4-COMP	5	3.13340	0.06502	3.0024	3.2644
MCN5-COMP	5	2.92513	0.06502	2.7941	3.0562
TB	5	2.78701	0.06502	2.6560	2.9180

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	3.24327	0.109861	0.04913	3.1069	3.3797
BIMW-COMP-T-M	5	3.05685	0.118016	0.05278	2.9103	3.2034
BIN-COMP-T	5	2.94876	0.176889	0.07911	2.7291	3.1684
BIS-COMP	5	3.05710	0.165177	0.07387	2.8520	3.2622
LA3-REF	5	2.19556	0.239631	0.10717	1.8980	2.4931
MCN1-COMP-T	5	2.85752	0.106966	0.04784	2.7247	2.9903
MCN2-COMP-T	5	3.00906	0.049410	0.02210	2.9477	3.0704
MCN3-COMP	5	2.96409	0.190932	0.08539	2.7270	3.2012
MCN4-COMP	5	3.13340	0.123258	0.05512	2.9804	3.2864
MCN5-COMP	5	2.92513	0.065183	0.02915	2.8442	3.0061
TB	5	2.78701	0.143951	0.06438	2.6083	2.9658

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.83292	0.05



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=4,4'-DDE**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
BIME-COMP-T-M	0.787	<.0001*
MCN4-COMP	0.677	<.0001*
BIS-COMP	0.601	<.0001*
BIMW-COMP-T-M	0.601	<.0001*
MCN2-COMP-T	0.553	<.0001*
MCN3-COMP	0.508	<.0001*
BIN-COMP-T	0.493	<.0001*
MCN5-COMP	0.469	<.0001*
MCN1-COMP-T	0.401	<.0001*
TB	0.331	<.0001*
LA3-REF	-0.26	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	248.000	140.000	49.6000	3.147
BIMW-COMP-T-M	5	182.000	140.000	36.4000	1.215
BIN-COMP-T	5	135.500	140.000	27.1000	-0.117
BIS-COMP	5	179.000	140.000	35.8000	1.127
LA3-REF	5	15.000	140.000	3.0000	-3.645
MCN1-COMP-T	5	87.000	140.000	17.4000	-1.537
MCN2-COMP-T	5	156.500	140.000	31.3000	0.468
MCN3-COMP	5	144.000	140.000	28.8000	0.102
MCN4-COMP	5	211.000	140.000	42.2000	2.064
MCN5-COMP	5	113.000	140.000	22.6000	-0.776
TB	5	69.000	140.000	13.8000	-2.064

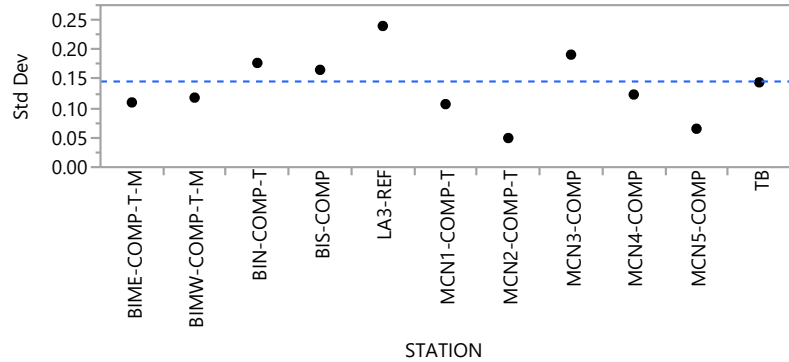
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
34.6785	10	0.0001*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=4,4'-DDE**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1098606	0.0693688	0.0682420
BIMW-COMP-T-M	5	0.1180157	0.0815608	0.0710760
BIN-COMP-T	5	0.1768888	0.1292832	0.1265940
BIS-COMP	5	0.1651766	0.1364520	0.1240160
LA3-REF	5	0.2396308	0.1934704	0.1774360
MCN1-COMP-T	5	0.1069657	0.0717016	0.0700460
MCN2-COMP-T	5	0.0494095	0.0418048	0.0374100
MCN3-COMP	5	0.1909316	0.1567216	0.1523880
MCN4-COMP	5	0.1232581	0.0836072	0.0751440
MCN5-COMP	5	0.0651831	0.0503720	0.0491620
TB	5	0.1439513	0.1021416	0.0939320

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.3292	10	44	0.2454
Brown-Forsythe	1.0421	10	44	0.4257
Levene	1.9501	10	44	0.0634
Bartlett	1.2876	10	.	0.2307

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
MCN1-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.73490	0.31115	0.96886
MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.91360	0.42230	1.08715
MCN3-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.80778	0.23055	1.19284
MCN4-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.99658	0.52521	1.30463
MCN4-COMP	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.24617	0.09779	0.49136

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=4,4'-DDE**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

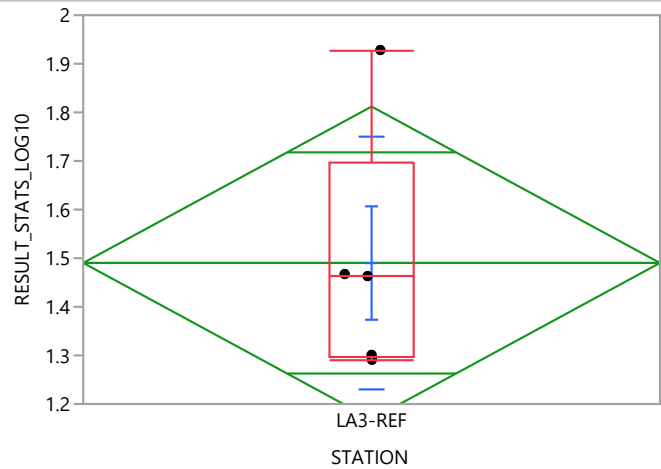
Level	- Level	Score Mean	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
MCN5-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.80369	0.33515	1.00955	
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.59685	0.21179	0.93306	
MCN2-COMP-T	MCN1-COMP-T	4.00000	1.914854	2.08893	0.0367*	0.11829	-0.00512	0.35225	
MCN4-COMP	MCN2-COMP-T	3.60000	1.914854	1.88004	0.0601	0.08598	-0.01244	0.38021	
MCN4-COMP	BIN-COMP-T	2.80000	1.914854	1.46225	0.1437	0.16075	-0.06564	0.44627	
MCN5-COMP	MCN1-COMP-T	2.00000	1.914854	1.04447	0.2963	0.04948	-0.09227	0.27465	
BIS-COMP	BIN-COMP-T	1.60000	1.914854	0.83557	0.4034	0.09729	-0.22352	0.51237	
MCN3-COMP	MCN1-COMP-T	1.60000	1.914854	0.83557	0.4034	0.11996	-0.19687	0.45794	
MCN4-COMP	BIS-COMP	1.60000	1.914854	0.83557	0.4034	0.09653	-0.20115	0.37383	
MCN4-COMP	MCN3-COMP	1.60000	1.914854	0.83557	0.4034	0.18677	-0.11813	0.57196	
MCN3-COMP	BIN-COMP-T	0.80000	1.914854	0.41779	0.6761	0.03854	-0.34665	0.46598	
MCN4-COMP	BIMW-COMP-T-M	0.40000	1.914854	0.20889	0.8345	0.00723	-0.10623	0.28330	
MCN2-COMP-T	BIN-COMP-T	0.20000	1.909043	0.10476	0.9166	0.05376	-0.15490	0.36029	
BIS-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.01371	-0.26411	0.33611	
MCN3-COMP	MCN2-COMP-T	0.00000	1.914854	0.00000	1.0000	-0.04527	-0.29321	0.19344	
MCN2-COMP-T	BIS-COMP	-0.40000	1.914854	-0.20889	0.8345	-0.01720	-0.30406	0.17032	
MCN3-COMP	BIMW-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-0.08249	-0.36622	0.28972	
MCN5-COMP	MCN3-COMP	-0.40000	1.914854	-0.20889	0.8345	-0.06668	-0.28735	0.24635	
MCN5-COMP	BIN-COMP-T	-1.20000	1.914854	-0.62668	0.5309	-0.04313	-0.24205	0.28269	
MCN1-COMP-T	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-0.11115	-0.40545	0.24200	
MCN3-COMP	BIS-COMP	-1.60000	1.914854	-0.83557	0.4034	-0.10074	-0.49581	0.27601	
TB	MCN1-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-0.06189	-0.37201	0.19816	
TB	MCN3-COMP	-1.60000	1.914854	-0.83557	0.4034	-0.21924	-0.59599	0.13498	
BIN-COMP-T	BIMW-COMP-T-M	-2.00000	1.914854	-1.04447	0.2963	-0.09691	-0.45408	0.23723	
MCN2-COMP-T	BIMW-COMP-T-M	-2.40000	1.914854	-1.25336	0.2101	-0.07371	-0.17938	0.18403	
MCN4-COMP	BIME-COMP-T-M	-2.40000	1.914854	-1.25336	0.2101	-0.12567	-0.34012	0.12057	
MCN5-COMP	BIS-COMP	-2.40000	1.914854	-1.25336	0.2101	-0.11327	-0.39121	0.09272	
BIS-COMP	BIME-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-0.22693	-0.43665	0.09215	
MCN5-COMP	BIMW-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-0.17139	-0.27545	0.10643	
TB	BIN-COMP-T	-2.80000	1.914854	-1.46225	0.1437	-0.18474	-0.54350	0.20620	
TB	MCN5-COMP	-3.20000	1.914854	-1.67115	0.0947	-0.10307	-0.41270	0.03038	
BIMW-COMP-T-M	BIME-COMP-T-M	-3.60000	1.914854	-1.88004	0.0601	-0.14999	-0.40178	0.03386	
MCN1-COMP-T	BIMW-COMP-T-M	-3.60000	1.914854	-1.88004	0.0601	-0.20806	-0.44604	0.06574	
MCN5-COMP	MCN2-COMP-T	-3.60000	1.914854	-1.88004	0.0601	-0.08715	-0.18861	0.05460	
MCN1-COMP-T	BIS-COMP	-4.00000	1.914854	-2.08893	0.0367*	-0.18193	-0.50433	0.05203	
MCN3-COMP	BIME-COMP-T-M	-4.00000	1.914854	-2.08893	0.0367*	-0.26257	-0.63478	0.04576	
TB	BIMW-COMP-T-M	-4.00000	1.914854	-2.08893	0.0367*	-0.25379	-0.58409	0.02994	
TB	BIS-COMP	-4.00000	1.914854	-2.08893	0.0367*	-0.28362	-0.64238	0.01623	
BIN-COMP-T	BIME-COMP-T-M	-4.40000	1.914854	-2.29783	0.0216*	-0.28813	-0.57804	-0.00673	
LA3-REF	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-1.10646	-1.36745	-0.68194	
LA3-REF	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.90312	-1.18094	-0.51806	
LA3-REF	BIN-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-0.78222	-1.14035	-0.34180	
LA3-REF	BIS-COMP	-4.80000	1.914854	-2.50672	0.0122*	-0.87953	-1.23923	-0.42868	

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=4,4'-DDE**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
MCN1-COMP-T	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.37184	-0.57000	-0.17822	
MCN2-COMP-T	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.21775	-0.44303	-0.05993	
MCN5-COMP	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.31856	-0.53018	-0.13753	
MCN5-COMP	MCN4-COMP	-4.80000	1.914854	-2.50672	0.0122*	-0.19006	-0.46736	-0.04831	
TB	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.42667	-0.70805	-0.21402	
TB	MCN2-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-0.18078	-0.49030	-0.05677	
TB	MCN4-COMP	-4.80000	1.914854	-2.50672	0.0122*	-0.29313	-0.57628	-0.14165	

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=4,4'-DDT**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
LA3-REF	1.29105	1.29105	1.29604	1.46321	1.697835	1.92831	1.92831

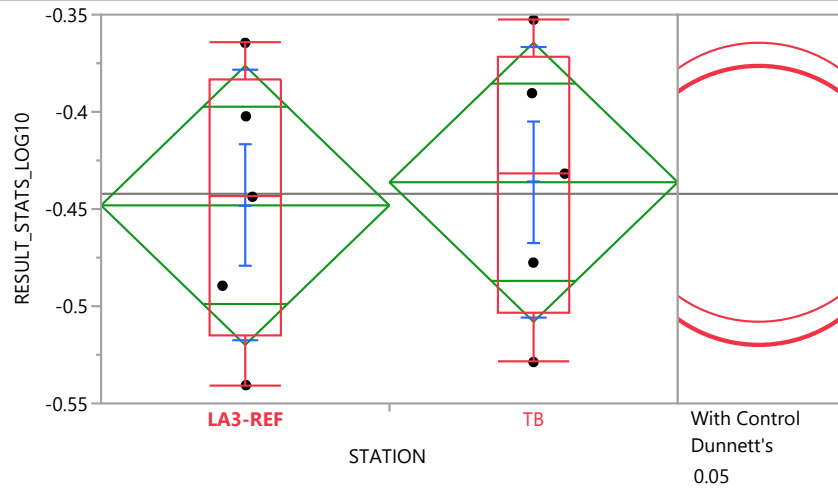
**Oneway Anova**

**Summary of Fit**

Rsquare	0
Adj Rsquare	0
Root Mean Square Error	0.259151
Mean of Response	1.490192
Observations (or Sum Wgts)	5



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=Dibutyltin**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
LA3-REF	-0.54061	-0.54061	-0.51503	-0.4437	-0.38341	-0.36452	-0.36452
TB	-0.52871	-0.52871	-0.50313	-0.4318	-0.37151	-0.35262	-0.35262

**Oneway Anova**

**Summary of Fit**

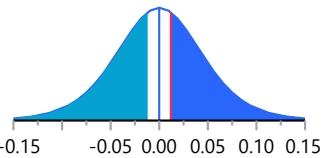
Rsquare	0.009054
Adj Rsquare	-0.11481
Root Mean Square Error	0.069589
Mean of Response	-0.44217
Observations (or Sum Wgts)	10

**t Test**

TB-LA3-REF

Assuming equal variances

Difference	0.01190	t Ratio	0.270361
Std Err Dif	0.04401	DF	8
Upper CL Dif	0.11339	Prob >  t	0.7937
Lower CL Dif	-0.08959	Prob > t	0.3969
Confidence	0.95	Prob < t	0.6031



**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	1	0.00035398	0.000354	0.0731	0.7937
Error	8	0.03874145	0.004843		
C. Total	9	0.03909543			

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=Dibutyltin**

**Oneway Anova**

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
LA3-REF	5	-0.44812	0.03112	-0.5199	-0.3764
TB	5	-0.43622	0.03112	-0.5080	-0.3645

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
LA3-REF	5	-0.44812	0.069590	0.03112	-0.5345	-0.3617
TB	5	-0.43622	0.069589	0.03112	-0.5226	-0.3498

**t Test**

TB-LA3-REF

Assuming unequal variances

Difference	0.01190	t Ratio	0.270361	
Std Err Dif	0.04401	DF	8	
Upper CL Dif	0.11339	Prob >  t	0.7937	
Lower CL Dif	-0.08959	Prob > t	0.3969	
Confidence	0.95	Prob < t	0.6031	

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.30600	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	-0.09	0.7937
LA3-REF	-0.1	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
LA3-REF	5	25.000	27.500	5.00000	-0.418
TB	5	30.000	27.500	6.00000	0.418

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=Dibutyltin**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

**2-Sample Test, Normal Approximation**

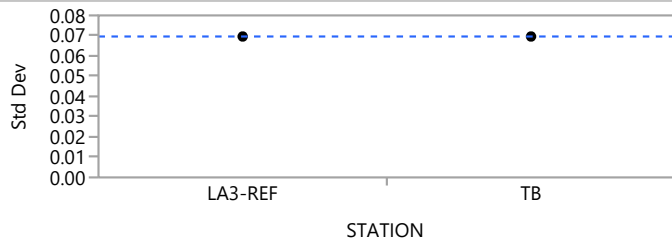
S	Z	Prob> Z
30	0.41779	0.6761

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
0.2727	1	0.6015

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
LA3-REF	5	0.0695895	0.0535322	0.0526484
TB	5	0.0695892	0.0535320	0.0526482

Test	F Ratio	DFNum	DFDen	p-Value
O'Brien[.5]	0.0000	1	8	1.0000
Brown-Forsythe	0.0000	1	8	1.0000
Levene	0.0000	1	8	1.0000
Bartlett	0.0000	1	.	1.0000
F Test 2-sided	1.0000	4	4	1.0000

Warning: Small sample sizes. Use Caution.

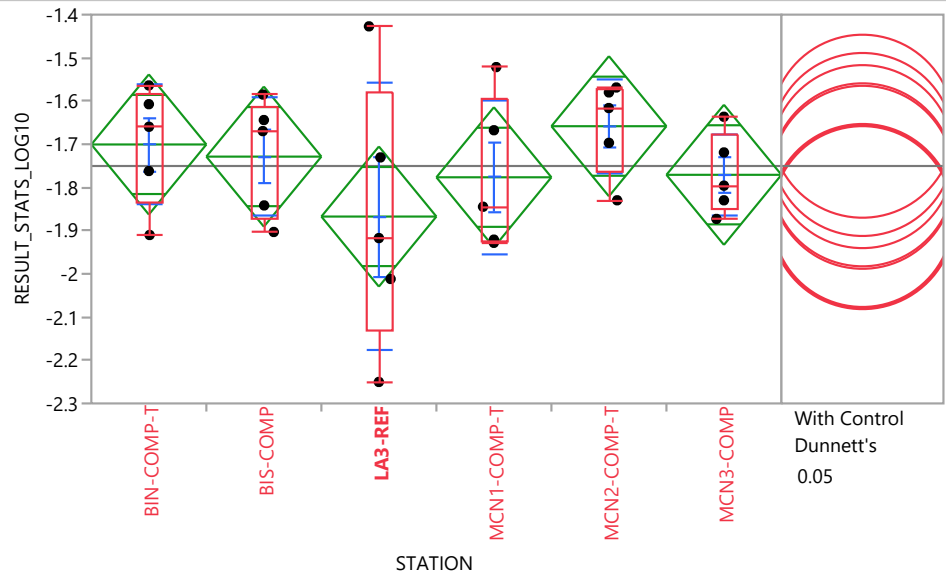
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	LA3-REF	0.8000000	1.914854	0.4177864	0.6761	0.0118990	-0.126403	0.1502020



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=Mercury**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIN-COMP-T	-1.91009	-1.91009	-1.83602	-1.65956	-1.58557	-1.56384	-1.56384
BIS-COMP	-1.90309	-1.90309	-1.87237	-1.66959	-1.6145	-1.58503	-1.58503
LA3-REF	-2.25026	-2.25026	-2.13108	-1.91721	-1.57881	-1.42713	-1.42713
MCN1-COMP-T	-1.92812	-1.92812	-1.92447	-1.84466	-1.5945	-1.52143	-1.52143
MCN2-COMP-T	-1.82974	-1.82974	-1.76327	-1.61618	-1.57434	-1.56864	-1.56864
MCN3-COMP	-1.8729	-1.8729	-1.85132	-1.79588	-1.67768	-1.63639	-1.63639

**Oneway Anova**

**Summary of Fit**

Rsquare	0.150332
Adj Rsquare	-0.02668
Root Mean Square Error	0.17574
Mean of Response	-1.75036
Observations (or Sum Wgts)	30

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	5	0.13114579	0.026229	0.8493	0.5287
Error	24	0.74122867	0.030885		
C. Total	29	0.87237446			

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=Mercury**

**Oneway Anova**

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIN-COMP-T	5	-1.7005	0.07859	-1.863	-1.538
BIS-COMP	5	-1.7287	0.07859	-1.891	-1.566
LA3-REF	5	-1.8674	0.07859	-2.030	-1.705
MCN1-COMP-T	5	-1.7765	0.07859	-1.939	-1.614
MCN2-COMP-T	5	-1.6583	0.07859	-1.820	-1.496
MCN3-COMP	5	-1.7708	0.07859	-1.933	-1.609

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIN-COMP-T	5	-1.7005	0.138512	0.06194	-1.873	-1.529
BIS-COMP	5	-1.7287	0.136457	0.06103	-1.898	-1.559
LA3-REF	5	-1.8674	0.309242	0.13830	-2.251	-1.483
MCN1-COMP-T	5	-1.7765	0.177053	0.07918	-1.996	-1.557
MCN2-COMP-T	5	-1.6583	0.108180	0.04838	-1.793	-1.524
MCN3-COMP	5	-1.7708	0.093915	0.04200	-1.887	-1.654

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.69532	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
MCN2-COMP-T	-0.09	0.2435
BIN-COMP-T	-0.13	0.4399
BIS-COMP	-0.16	0.6065
MCN3-COMP	-0.2	0.8520
MCN1-COMP-T	-0.21	0.8789
LA3-REF	-0.3	1.0000

Positive values show pairs of means that are significantly different.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=Mercury**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

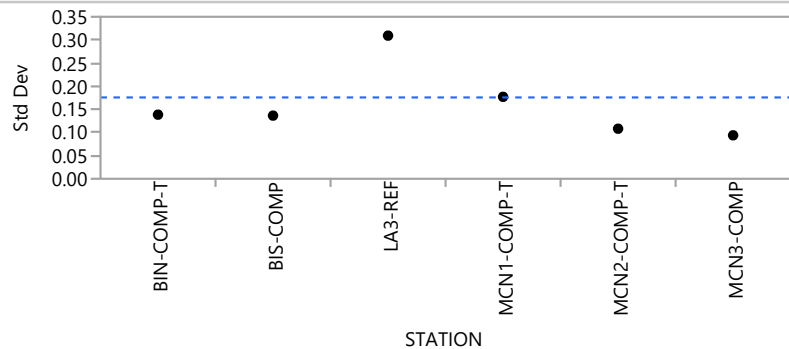
Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIN-COMP-T	5	92.000	77.500	18.4000	0.779
BIS-COMP	5	81.000	77.500	16.2000	0.167
LA3-REF	5	53.000	77.500	10.6000	-1.336
MCN1-COMP-T	5	64.000	77.500	12.8000	-0.724
MCN2-COMP-T	5	104.500	77.500	20.9000	1.475
MCN3-COMP	5	70.500	77.500	14.1000	-0.362

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
4.6023	5	0.4663

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif	
			to Mean	to Median
BIN-COMP-T	5	0.1385120	0.1083776	0.1001800
BIS-COMP	5	0.1364565	0.1149608	0.1031460
LA3-REF	5	0.3092419	0.2308688	0.2209060
MCN1-COMP-T	5	0.1770532	0.1456184	0.1319900
MCN2-COMP-T	5	0.1081799	0.0839920	0.0755720
MCN3-COMP	5	0.0939145	0.0744768	0.0694560

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.7101	5	24	0.1706
Brown-Forsythe	1.1337	5	24	0.3697
Levene	2.1538	5	24	0.0934
Bartlett	1.5024	5	.	0.1852

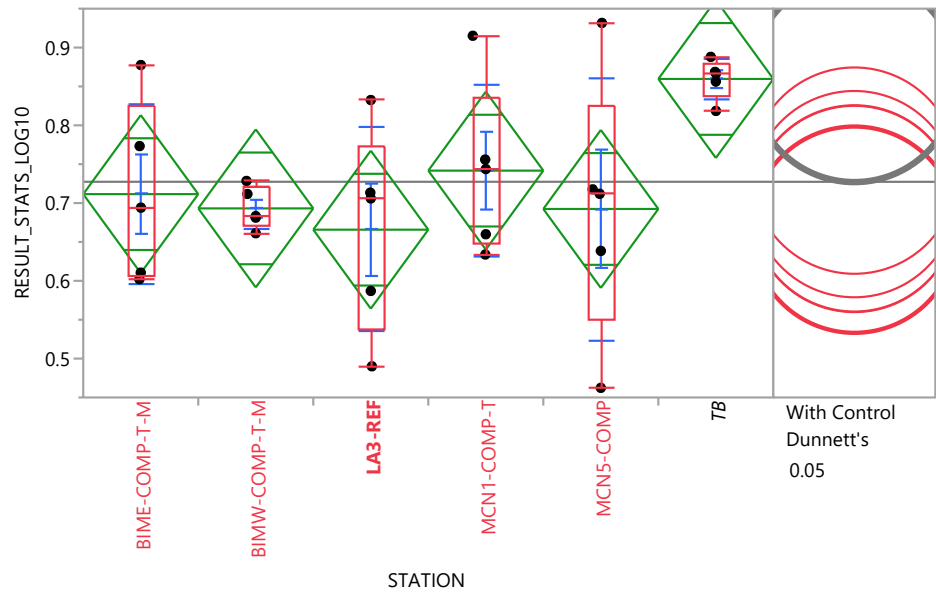
Warning: Small sample sizes. Use Caution.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=Mercury**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*		Alpha									
1.95996		0.05									
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL			
MCN2-COMP-T	LA3-REF	2.40000	1.914854	1.25336	0.2101	0.220410	-0.269670	0.6702200			
MCN2-COMP-T	BIS-COMP	2.00000	1.914854	1.04447	0.2963	0.063930	-0.185770	0.3230500			
MCN2-COMP-T	MCN1-COMP-T	2.00000	1.914854	1.04447	0.2963	0.098920	-0.175370	0.3521800			
MCN3-COMP	LA3-REF	1.60000	1.914854	0.83557	0.4034	0.121330	-0.402610	0.5312900			
MCN1-COMP-T	LA3-REF	0.80000	1.914854	0.41779	0.6761	0.083770	-0.493690	0.5827000			
MCN3-COMP	MCN1-COMP-T	0.80000	1.914854	0.41779	0.6761	0.047920	-0.308310	0.2844300			
MCN2-COMP-T	BIN-COMP-T	0.40000	1.914854	0.20889	0.8345	0.038660	-0.222440	0.3300500			
BIS-COMP	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.021190	-0.295790	0.2661200			
MCN3-COMP	BIS-COMP	-0.40000	1.914854	-0.20889	0.8345	-0.049380	-0.244710	0.2052500			
MCN1-COMP-T	BIS-COMP	-1.20000	1.914854	-0.62668	0.5309	-0.025030	-0.335790	0.3202100			
MCN1-COMP-T	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-0.082710	-0.356980	0.2425300			
MCN3-COMP	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-0.072550	-0.265900	0.1911200			
LA3-REF	BIN-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-0.166650	-0.642960	0.3348200			
LA3-REF	BIS-COMP	-2.00000	1.914854	-1.04447	0.2963	-0.145460	-0.606290	0.4145100			
MCN3-COMP	MCN2-COMP-T	-3.00000	1.909043	-1.57147	0.1161	-0.132940	-0.292860	0.1107700			

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB003**



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB003**

**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.60206	0.60206	0.606316	0.694117	0.825404	0.877508	0.877508
BIMW-COMP-T-M	0.661181	0.661181	0.671211	0.68322	0.720091	0.728463	0.728463
LA3-REF	0.490086	0.490086	0.538541	0.705994	0.772955	0.832509	0.832509
MCN1-COMP-T	0.633852	0.633852	0.646879	0.743782	0.835574	0.915179	0.915179
MCN5-COMP	0.462398	0.462398	0.550444	0.711918	0.824683	0.931694	0.931694
TB	0.818523	0.818523	0.837418	0.866628	0.878374	0.888026	0.888026

**Oneway Anova**

**Summary of Fit**

Rsquare	0.293273
Adj Rsquare	0.146039
Root Mean Square Error	0.110077
Mean of Response	0.727381
Observations (or Sum Wgts)	30

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	5	0.12067790	0.024136	1.9919	0.1163
Error	24	0.29080820	0.012117		
C. Total	29	0.41148609			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.711511	0.04923	0.60991	0.81311
BIMW-COMP-T-M	5	0.693165	0.04923	0.59156	0.79477
LA3-REF	5	0.665797	0.04923	0.56420	0.76740
MCN1-COMP-T	5	0.741737	0.04923	0.64014	0.84334
MCN5-COMP	5	0.692434	0.04923	0.59083	0.79404
TB	5	0.859642	0.04923	0.75804	0.96124

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.711511	0.116021	0.05189	0.56745	0.85557
BIMW-COMP-T-M	5	0.693165	0.026712	0.01195	0.66000	0.72633
LA3-REF	5	0.665797	0.131109	0.05863	0.50300	0.82859
MCN1-COMP-T	5	0.741737	0.110255	0.04931	0.60484	0.87864
MCN5-COMP	5	0.692434	0.168885	0.07553	0.48274	0.90213
TB	5	0.859642	0.025684	0.01149	0.82775	0.89153

**Means Comparisons**

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB003**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.69532	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	0.006	0.0412*
MCN1-COMP-T	-0.11	0.7146
BIME-COMP-T-M	-0.14	0.9449
BIMW-COMP-T-M	-0.16	0.9937
MCN5-COMP	-0.16	0.9944
LA3-REF	-0.19	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	69.000	77.500	13.8000	-0.445
BIMW-COMP-T-M	5	62.000	77.500	12.4000	-0.835
LA3-REF	5	57.000	77.500	11.4000	-1.113
MCN1-COMP-T	5	82.000	77.500	16.4000	0.223
MCN5-COMP	5	70.000	77.500	14.0000	-0.390
TB	5	125.000	77.500	25.0000	2.615

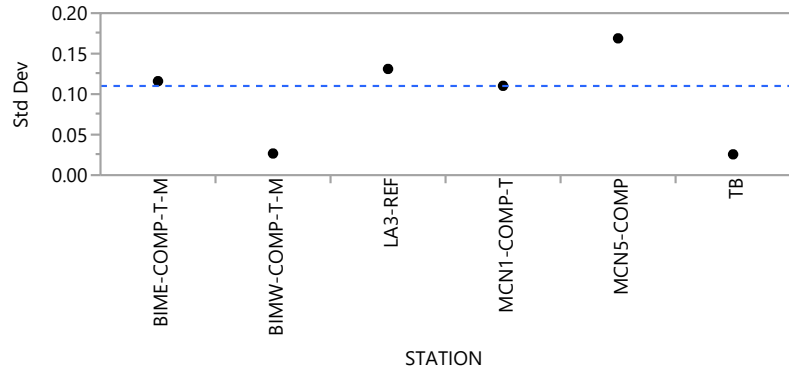
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
7.9110	5	0.1612

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB003**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1160212	0.0911140	0.0876352
BIMW-COMP-T-M	5	0.0267125	0.0215407	0.0195518
LA3-REF	5	0.1311094	0.1018048	0.0937654
MCN1-COMP-T	5	0.1102546	0.0758867	0.0754778
MCN5-COMP	5	0.1688849	0.1135924	0.1096956
TB	5	0.0256844	0.0177796	0.0163824

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.1733	5	24	0.3511
Brown-Forsythe	1.4629	5	24	0.2387
Levene	2.0267	5	24	0.1109
Bartlett	3.2289	5	.	0.0064*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

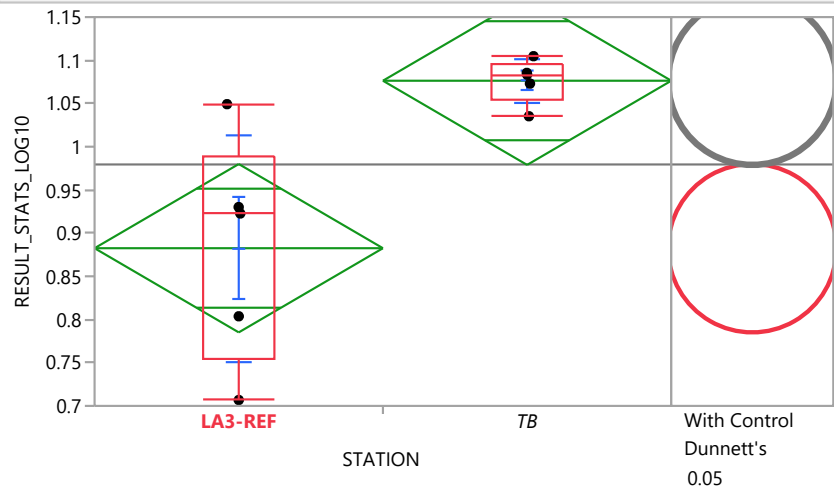
q*		Alpha							
1.95996		0.05							
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.173092	0.106805	0.2075400	
TB	LA3-REF	4.40000	1.914854	2.29783	0.0216*	0.162727	0.023803	0.3786350	
TB	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	0.172511	-0.021196	0.2774550	
TB	MCN1-COMP-T	2.80000	1.914854	1.46225	0.1437	0.124939	-0.058867	0.2348690	
TB	MCN5-COMP	2.80000	1.914854	1.46225	0.1437	0.156803	-0.075382	0.4063230	
MCN1-COMP-T	LA3-REF	1.60000	1.914854	0.83557	0.4034	0.049974	-0.172603	0.3281830	
MCN1-COMP-T	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.037671	-0.217602	0.3046080	
MCN1-COMP-T	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.032064	-0.077866	0.2339380	
MCN5-COMP	LA3-REF	0.40000	1.914854	0.20889	0.8345	0.005924	-0.251002	0.3446980	
BIMW-COMP-T-M	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.010897	-0.196267	0.1178920	

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB003**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
LA3-REF	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.005724	-0.221632	0.1512680
MCN5-COMP	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.017801	-0.310901	0.3211230
MCN5-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.000200	-0.249320	0.2504530
LA3-REF	BIME-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.044999	-0.290512	0.2219380
MCN5-COMP	MCN1-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.031864	-0.293570	0.2717880

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB005/008**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
LA3-REF	0.706795	0.706795	0.75525	0.922703	0.989665	1.04922	1.04922
TB	1.03523	1.03523	1.054125	1.08334	1.095085	1.10474	1.10474

**Oneway Anova**

**Summary of Fit**

Rsquare	0.568168
Adj Rsquare	0.514189
Root Mean Square Error	0.094471
Mean of Response	0.979429
Observations (or Sum Wgts)	10

**t Test**

TB-LA3-REF



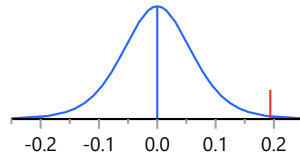
**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB005/008**

**Oneway Anova**

**t Test**

Assuming equal variances

Difference	0.193846	t Ratio	3.244338
Std Err Dif	0.059749	DF	8
Upper CL Dif	0.331627	Prob >  t	0.0118*
Lower CL Dif	0.056064	Prob > t	0.0059*
Confidence	0.95	Prob < t	0.9941



**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	1	0.09394029	0.093940	10.5257	0.0118*
Error	8	0.07139860	0.008925		
C. Total	9	0.16533889			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
LA3-REF	5	0.88251	0.04225	0.78508	0.9799
TB	5	1.07635	0.04225	0.97893	1.1738

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

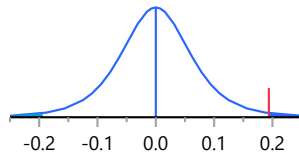
Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
LA3-REF	5	0.88251	0.131110	0.05863	0.7197	1.0453
TB	5	1.07635	0.025687	0.01149	1.0445	1.1082

**t Test**

TB-LA3-REF

Assuming unequal variances

Difference	0.193846	t Ratio	3.244338
Std Err Dif	0.059749	DF	4.306618
Upper CL Dif	0.355179	Prob >  t	0.0283*
Lower CL Dif	0.032512	Prob > t	0.0142*
Confidence	0.95	Prob < t	0.9858



**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.30600	0.05

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB005/008**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	0.056	0.0118*
LA3-REF	-0.14	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
LA3-REF	5	16.000	27.500	3.20000	-2.298
TB	5	39.000	27.500	7.80000	2.298

**2-Sample Test, Normal Approximation**

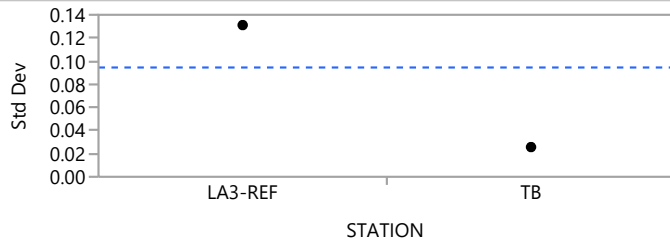
S	Z	Prob> Z
39	2.29783	0.0216*

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
5.7709	1	0.0163*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif	
			to Mean	to Median
LA3-REF	5	0.1311100	0.1018051	0.0937658
TB	5	0.0256868	0.0177816	0.0163840

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB005/008**

**Tests that the Variances are Equal**

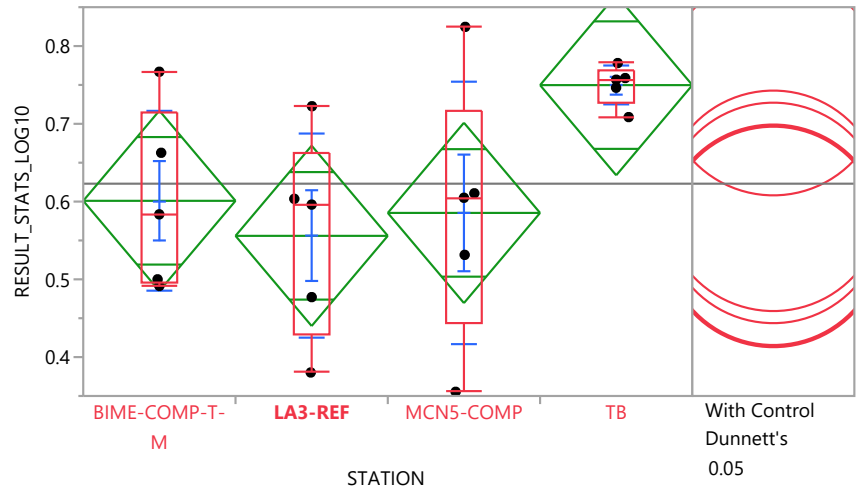
Test	F Ratio	DFNum	DFDen	p-Value
O'Brien[.5]	3.1012	1	8	0.1163
Brown-Forsythe	3.4794	1	8	0.0991
Levene	7.8460	1	8	0.0232*
Bartlett	6.9303	1	.	0.0085*
F Test 2-sided	26.0527	4	4	0.0080*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*		Alpha						
1.95996		0.05						
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	LA3-REF	4.400000	1.914854	2.297825	0.0216*	0.1627270	0.0238000	0.3786350

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB015**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.491519	0.491519	0.495775	0.583577	0.714863	0.766967	0.766967
LA3-REF	0.380211	0.380211	0.428666	0.596119	0.66308	0.722634	0.722634
MCN5-COMP	0.355388	0.355388	0.443434	0.604908	0.717672	0.824684	0.824684
TB	0.708648	0.708648	0.727543	0.756753	0.768499	0.778151	0.778151

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB015**

**Oneway Anova**

**Summary of Fit**

Rsquare	0.319434
Adj Rsquare	0.191828
Root Mean Square Error	0.122303
Mean of Response	0.623021
Observations (or Sum Wgts)	20

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	3	0.11233301	0.037444	2.5033	0.0962
Error	16	0.23932937	0.014958		
C. Total	19	0.35166238			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.600970	0.05470	0.48502	0.71692
LA3-REF	5	0.555922	0.05470	0.43997	0.67187
MCN5-COMP	5	0.585424	0.05470	0.46947	0.70137
TB	5	0.749767	0.05470	0.63382	0.86572

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.600970	0.116021	0.05189	0.45691	0.74503
LA3-REF	5	0.555922	0.131109	0.05863	0.39313	0.71872
MCN5-COMP	5	0.585424	0.168885	0.07553	0.37573	0.79512
TB	5	0.749767	0.025684	0.01149	0.71788	0.78166

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.59232	0.05

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB015**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	-0.01	0.0591
BIME-COMP-T-M	-0.16	0.8877
MCN5-COMP	-0.17	0.9632
LA3-REF	-0.2	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

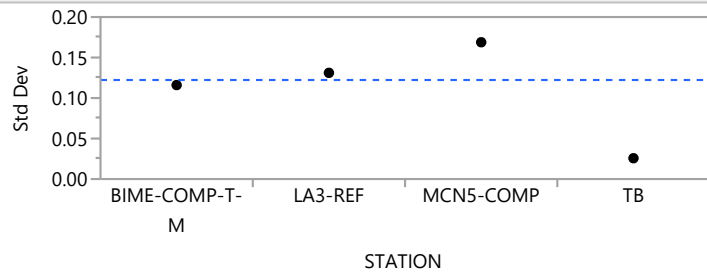
Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	46.000	52.500	9.2000	-0.524
LA3-REF	5	36.000	52.500	7.2000	-1.397
MCN5-COMP	5	48.000	52.500	9.6000	-0.349
TB	5	80.000	52.500	16.0000	2.357

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
6.2343	3	0.1008

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1160210	0.0911137	0.0876350
LA3-REF	5	0.1311094	0.1018048	0.0937654
MCN5-COMP	5	0.1688849	0.1135922	0.1096954
TB	5	0.0256844	0.0177796	0.0163824

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB015**

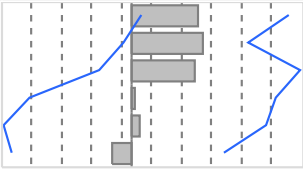
**Tests that the Variances are Equal**

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.0438	3	16	0.4001
Brown-Forsythe	1.2780	3	16	0.3156
Levene	1.8670	3	16	0.1759
Bartlett	2.9491	3	.	0.0314*

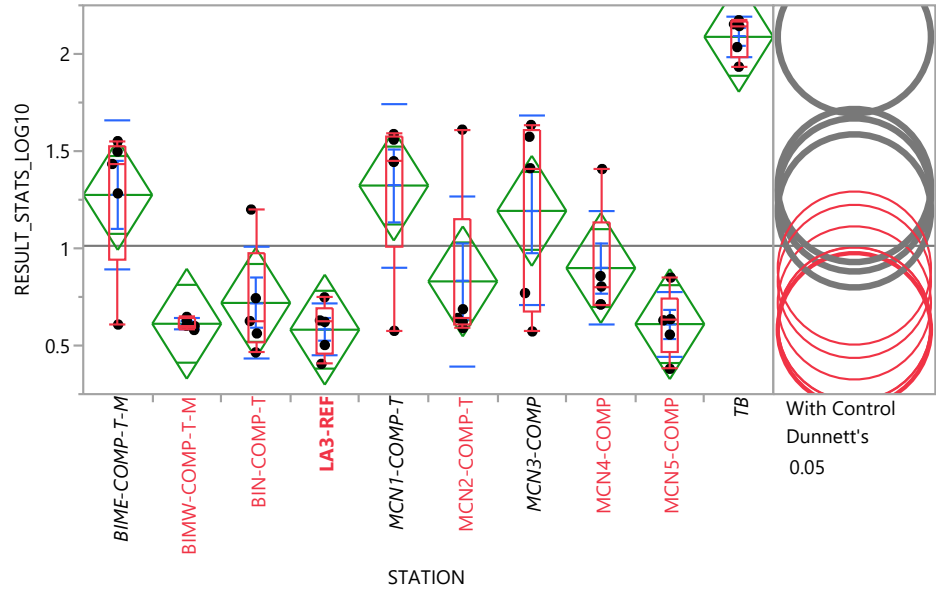
Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*		Alpha						
1.95996		0.05						
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	LA3-REF	4.40000	1.914854	2.29783	0.0216*	0.162727	0.023803	0.3786350
TB	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	0.173176	-0.020530	0.2781200
TB	MCN5-COMP	2.80000	1.914854	1.46225	0.1437	0.153938	-0.078247	0.4034580
MCN5-COMP	LA3-REF	0.80000	1.914854	0.41779	0.6761	0.008789	-0.248137	0.3475630
MCN5-COMP	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.021331	-0.307370	0.3246530
LA3-REF	BIME-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.044333	-0.289846	0.2226030



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB018**



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB018**

**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.60805	0.60805	0.9453	1.43394	1.52457	1.55137	1.55137
BIMW-COMP-T-M	0.580022	0.580022	0.590052	0.60206	0.638931	0.647304	0.647304
BIN-COMP-T	0.464887	0.464887	0.51359	0.625949	0.97148	1.19957	1.19957
LA3-REF	0.405765	0.405765	0.45422	0.621673	0.688634	0.748188	0.748188
MCN1-COMP-T	0.575585	0.575585	1.010193	1.44791	1.573455	1.58782	1.58782
MCN2-COMP-T	0.589826	0.589826	0.605318	0.641743	1.148643	1.61055	1.61055
MCN3-COMP	0.572505	0.572505	0.671203	1.41218	1.60427	1.63451	1.63451
MCN4-COMP	0.711559	0.711559	0.711559	0.803705	1.132626	1.40792	1.40792
MCN5-COMP	0.380211	0.380211	0.468257	0.629731	0.742496	0.849507	0.849507
TB	1.93407	1.93407	1.98465	2.14342	2.16334	2.17345	2.17345

**Oneway Anova**

**Summary of Fit**

Rsquare	0.717509
Adj Rsquare	0.653948
Root Mean Square Error	0.313295
Mean of Response	1.012958
Observations (or Sum Wgts)	50

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	9	9.972174	1.10802	11.2886	<.0001*
Error	40	3.926155	0.09815		
C. Total	49	13.898328			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.27474	0.14011	0.9916	1.5579
BIMW-COMP-T-M	5	0.61201	0.14011	0.3288	0.8952
BIN-COMP-T	5	0.71922	0.14011	0.4360	1.0024
LA3-REF	5	0.58148	0.14011	0.2983	0.8646
MCN1-COMP-T	5	1.32304	0.14011	1.0399	1.6062
MCN2-COMP-T	5	0.82993	0.14011	0.5468	1.1131
MCN3-COMP	5	1.19263	0.14011	0.9095	1.4758
MCN4-COMP	5	0.89842	0.14011	0.6152	1.1816
MCN5-COMP	5	0.61025	0.14011	0.3271	0.8934
TB	5	2.08788	0.14011	1.8047	2.3711

Std Error uses a pooled estimate of error variance

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB018**

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.27474	0.386053	0.17265	0.7954	1.7541
BIMW-COMP-T-M	5	0.61201	0.026712	0.01195	0.5788	0.6452
BIN-COMP-T	5	0.71922	0.286937	0.12832	0.3629	1.0755
LA3-REF	5	0.58148	0.131109	0.05863	0.4187	0.7443
MCN1-COMP-T	5	1.32304	0.422769	0.18907	0.7981	1.8480
MCN2-COMP-T	5	0.82993	0.437798	0.19579	0.2863	1.3735
MCN3-COMP	5	1.19263	0.487899	0.21819	0.5868	1.7984
MCN4-COMP	5	0.89842	0.291583	0.13040	0.5364	1.2605
MCN5-COMP	5	0.61025	0.168885	0.07553	0.4005	0.8199
TB	5	2.08788	0.101374	0.04534	1.9620	2.2138

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	0.949	<.0001*
MCN1-COMP-T	0.184	0.0044*
BIME-COMP-T-M	0.136	0.0086*
MCN3-COMP	0.054	0.0256*
MCN4-COMP	-0.24	0.5087
MCN2-COMP-T	-0.31	0.7555
BIN-COMP-T	-0.42	0.9876
BIMW-COMP-T-M	-0.53	1.0000
MCN5-COMP	-0.53	1.0000
LA3-REF	-0.56	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	161.000	127.500	32.2000	1.067
BIMW-COMP-T-M	5	73.000	127.500	14.6000	-1.746
BIN-COMP-T	5	83.000	127.500	16.6000	-1.423
LA3-REF	5	65.000	127.500	13.0000	-2.005
MCN1-COMP-T	5	167.000	127.500	33.4000	1.261
MCN2-COMP-T	5	112.000	127.500	22.4000	-0.485



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB018**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

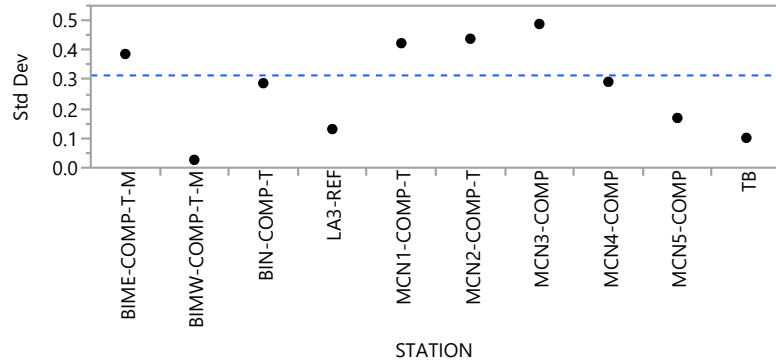
Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
MCN3-COMP	5	157.000	127.500	31.4000	0.938
MCN4-COMP	5	143.000	127.500	28.6000	0.485
MCN5-COMP	5	74.000	127.500	14.8000	-1.714
TB	5	240.000	127.500	48.0000	3.622

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
26.7387	9	0.0015*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.3860530	0.2666744	0.2317080
BIMW-COMP-T-M	5	0.0267125	0.0215408	0.0195518
BIN-COMP-T	5	0.2869369	0.2018095	0.1831558
LA3-REF	5	0.1311094	0.1018048	0.0937654
MCN1-COMP-T	5	0.4227692	0.2989824	0.2253050
MCN2-COMP-T	5	0.4377979	0.3122469	0.2173302
MCN3-COMP	5	0.4878988	0.4171378	0.3732268
MCN4-COMP	5	0.2915834	0.2038020	0.1684268
MCN5-COMP	5	0.1688849	0.1135924	0.1096956
TB	5	0.1013744	0.0825840	0.0714760

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB018**

**Tests that the Variances are Equal**

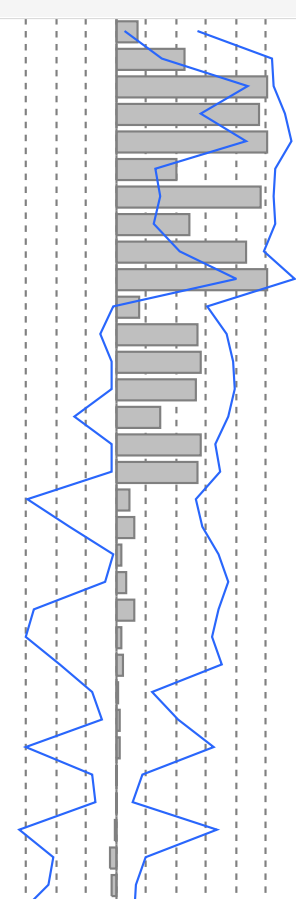
Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	0.9106	9	40	0.5258
Brown-Forsythe	0.7418	9	40	0.6687
Levene	2.5274	9	40	0.0213*
Bartlett	3.2187	9	.	0.0007*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q\* Alpha  
1.95996 0.05

Level	- Level	Score Mean	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
MCN4-COMP	BIMW-COMP-T-M	4.80000	1.909043	2.51435	0.0119*	0.20165	0.06426	0.807839
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.67568	0.43630	1.545180
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	1.51286	1.30351	1.573369
TB	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	1.43006	0.83566	1.688343
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.52415	1.28704	1.747465
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.59414	0.37498	1.577645
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	1.44540	0.42468	1.563404
TB	MCN3-COMP	4.80000	1.914854	2.50672	0.0122*	0.73124	0.36004	1.580725
TB	MCN4-COMP	4.80000	1.909043	2.51435	0.0119*	1.29590	0.62731	1.461891
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	1.51369	1.18572	1.773019
MCN4-COMP	LA3-REF	4.00000	1.909043	2.09529	0.0361*	0.22825	-0.03663	0.905245
MCN1-COMP-T	BIN-COMP-T	3.60000	1.914854	1.88004	0.0601	0.81885	-0.16780	1.094203
MCN1-COMP-T	LA3-REF	3.60000	1.914854	1.88004	0.0601	0.83963	-0.05349	1.153325
MCN3-COMP	LA3-REF	3.60000	1.914854	1.88004	0.0601	0.79051	-0.05657	1.168265
MCN3-COMP	BIN-COMP-T	3.20000	1.914854	1.67115	0.0947	0.43494	-0.42967	1.109143
MCN1-COMP-T	BIMW-COMP-T-M	2.80000	1.914854	1.46225	0.1437	0.84783	-0.05497	0.987739
MCN3-COMP	BIMW-COMP-T-M	2.80000	1.914854	1.46225	0.1437	0.81012	-0.05805	1.034429
MCN4-COMP	MCN2-COMP-T	2.80000	1.909043	1.46670	0.1425	0.12173	-0.89899	0.787111
MCN4-COMP	BIN-COMP-T	2.40000	1.909043	1.25717	0.2087	0.17776	-0.48801	0.845627
MCN2-COMP-T	BIMW-COMP-T-M	2.00000	1.914854	1.04447	0.2963	0.03968	-0.04073	1.010469
MCN2-COMP-T	LA3-REF	1.60000	1.914854	0.83557	0.4034	0.08715	-0.12738	1.107875
MCN3-COMP	MCN2-COMP-T	1.60000	1.914854	0.83557	0.4034	0.18008	-0.84065	1.013701
MCN1-COMP-T	BIME-COMP-T-M	1.20000	1.914854	0.62668	0.5309	0.03645	-0.92219	0.951040
MCN2-COMP-T	BIN-COMP-T	0.80000	1.914854	0.41779	0.6761	0.05852	-0.57876	1.048257
MCN5-COMP	LA3-REF	0.80000	1.914854	0.41779	0.6761	0.00806	-0.24887	0.346832
BIN-COMP-T	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.02389	-0.16567	0.599489
MCN3-COMP	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.02266	-0.92527	0.965980
MCN5-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.00083	-0.25035	0.249426
LA3-REF	BIMW-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-0.00888	-0.22479	0.148107
MCN3-COMP	MCN1-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.01379	-0.98659	0.998445
MCN5-COMP	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.06965	-0.64327	0.287214
LA3-REF	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.05962	-0.69690	0.185895

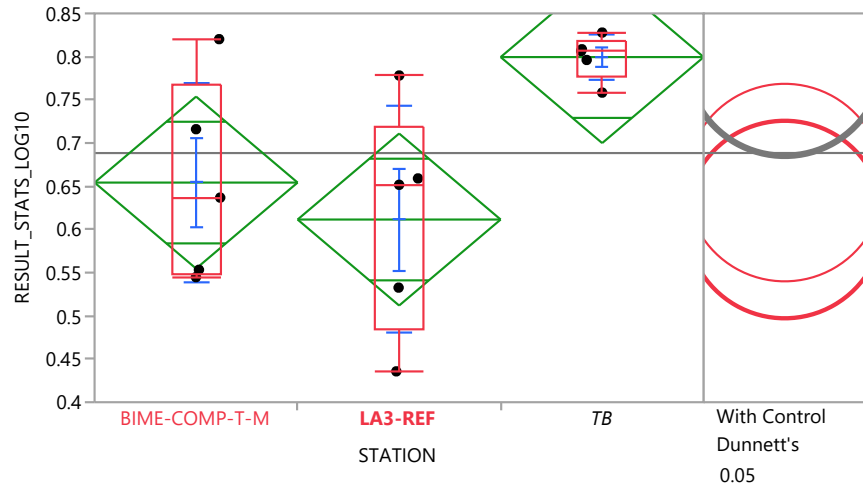


**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB018**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
MCN2-COMP-T	MCN1-COMP-T	-1.20000	1.914854	-0.62668	0.5309	-0.80617	-0.96926	0.165750	
MCN2-COMP-T	BIME-COMP-T-M	-1.60000	1.914854	-0.83557	0.4034	-0.69272	-0.93056	0.328000	
MCN4-COMP	MCN3-COMP	-1.60000	1.909043	-0.83812	0.4020	-0.22659	-0.92295	0.638019	
MCN5-COMP	MCN2-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-0.05700	-1.05425	0.228698	
MCN4-COMP	BIME-COMP-T-M	-2.40000	1.909043	-1.25717	0.2087	-0.57099	-0.83981	0.249282	
MCN4-COMP	MCN1-COMP-T	-2.80000	1.909043	-1.46670	0.1425	-0.64421	-0.87626	0.281747	
MCN5-COMP	MCN3-COMP	-3.20000	1.914854	-1.67115	0.0947	-0.77670	-1.19382	0.079606	
BIN-COMP-T	BIME-COMP-T-M	-3.60000	1.914854	-1.88004	0.0601	-0.72026	-1.03288	0.135339	
LA3-REF	BIME-COMP-T-M	-3.60000	1.914854	-1.88004	0.0601	-0.80486	-1.09201	0.021029	
MCN5-COMP	BIME-COMP-T-M	-3.60000	1.914854	-1.88004	0.0601	-0.79846	-1.11756	0.027434	
MCN5-COMP	MCN1-COMP-T	-3.60000	1.914854	-1.88004	0.0601	-0.81818	-1.17888	0.059899	
MCN5-COMP	MCN4-COMP	-3.60000	1.909043	-1.88576	0.0593	-0.22185	-0.85162	0.137948	
BIMW-COMP-T-M	BIME-COMP-T-M	-4.00000	1.914854	-2.08893	0.0367*	-0.83188	-0.95129	0.022508	

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB027**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.544765	0.544765	0.549021	0.636822	0.768108	0.820213	0.820213
LA3-REF	0.435729	0.435729	0.484184	0.651636	0.718597	0.778151	0.778151
TB	0.758336	0.758336	0.777231	0.806441	0.818187	0.827839	0.827839

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB027**

**Oneway Anova**

**Summary of Fit**

Rsquare	0.436777
Adj Rsquare	0.342907
Root Mean Square Error	0.10216
Mean of Response	0.68837
Observations (or Sum Wgts)	15

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	2	0.09712352	0.048562	4.6530	0.0319*
Error	12	0.12524052	0.010437		
C. Total	14	0.22236404			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.654216	0.04569	0.55467	0.75376
LA3-REF	5	0.611439	0.04569	0.51190	0.71098
TB	5	0.799455	0.04569	0.69991	0.89900

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.654216	0.116021	0.05189	0.51016	0.79828
LA3-REF	5	0.611439	0.131109	0.05863	0.44865	0.77423
TB	5	0.799455	0.025684	0.01149	0.76756	0.83135

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.50237	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	0.026	0.0239*
BIME-COMP-T-M	-0.12	0.7381
LA3-REF	-0.16	1.0000

Positive values show pairs of means that are significantly different.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB027**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

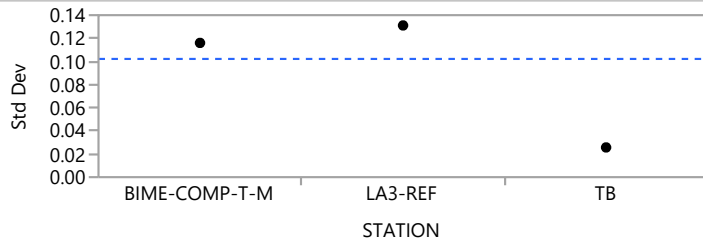
Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	34.000	40.000	6.8000	-0.674
LA3-REF	5	26.000	40.000	5.2000	-1.653
TB	5	60.000	40.000	12.0000	2.388

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
6.3200	2	0.0424*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1160211	0.0911138	0.0876350
LA3-REF	5	0.1311089	0.1018043	0.0937650
TB	5	0.0256844	0.0177796	0.0163824

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.6698	2	12	0.2292
Brown-Forsythe	2.1611	2	12	0.1579
Levene	4.1385	2	12	0.0430*
Bartlett	3.6142	2	.	0.0269*

Warning: Small sample sizes. Use Caution.

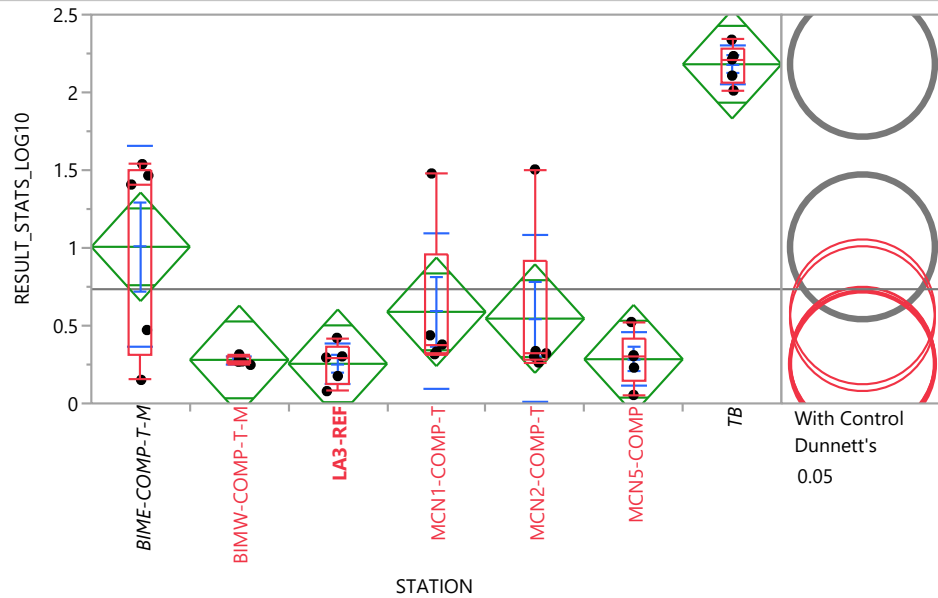
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	LA3-REF	4.40000	1.914854	2.29783	0.0216*	0.156898	0.017974	0.3728050
TB	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	0.169619	-0.024088	0.2745630
LA3-REF	BIME-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.042062	-0.287574	0.2248750



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB028**



Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.151268	0.151268	0.311727	1.40749	1.502125	1.53867	1.53867
BIMW-COMP-T-M	0.248178	0.248178	0.258208	0.270216	0.307087	0.31546	0.31546
LA3-REF	0.079181	0.079181	0.127636	0.295089	0.36205	0.421604	0.421604
MCN1-COMP-T	0.316635	0.316635	0.324729	0.378635	0.958369	1.47868	1.47868
MCN2-COMP-T	0.263241	0.263241	0.282136	0.321964	0.920535	1.5044	1.5044
MCN5-COMP	0.054358	0.054358	0.142403	0.303878	0.416642	0.523654	0.523654
TB	2.01206	2.01206	2.05992	2.2123	2.286105	2.33882	2.33882

**Oneway Anova**

**Summary of Fit**

Rsquare	0.778544
Adj Rsquare	0.731089
Root Mean Square Error	0.381294
Mean of Response	0.73454
Observations (or Sum Wgts)	35

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	6	14.311113	2.38519	16.4060	<.0001*
Error	28	4.070780	0.14538		
C. Total	34	18.381893			

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB028**

**Oneway Anova**

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.00704	0.17052	0.658	1.3563
BIMW-COMP-T-M	5	0.28016	0.17052	-0.069	0.6295
LA3-REF	5	0.25489	0.17052	-0.094	0.6042
MCN1-COMP-T	5	0.58897	0.17052	0.240	0.9383
MCN2-COMP-T	5	0.54546	0.17052	0.196	0.8948
MCN5-COMP	5	0.28439	0.17052	-0.065	0.6337
TB	5	2.18087	0.17052	1.832	2.5302

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.00704	0.646464	0.28911	0.204	1.8097
BIMW-COMP-T-M	5	0.28016	0.026712	0.01195	0.247	0.3133
LA3-REF	5	0.25489	0.131109	0.05863	0.092	0.4177
MCN1-COMP-T	5	0.58897	0.499594	0.22343	-0.031	1.2093
MCN2-COMP-T	5	0.54546	0.536774	0.24005	-0.121	1.2120
MCN5-COMP	5	0.28439	0.168885	0.07553	0.075	0.4941
TB	5	2.18087	0.125033	0.05592	2.026	2.3361

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.73128	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	1.267	<.0001*
BIME-COMP-T-M	0.093	0.0204*
MCN1-COMP-T	-0.32	0.5590
MCN2-COMP-T	-0.37	0.6850
MCN5-COMP	-0.63	1.0000
BIMW-COMP-T-M	-0.63	1.0000
LA3-REF	-0.66	1.0000

Positive values show pairs of means that are significantly different.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB028**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

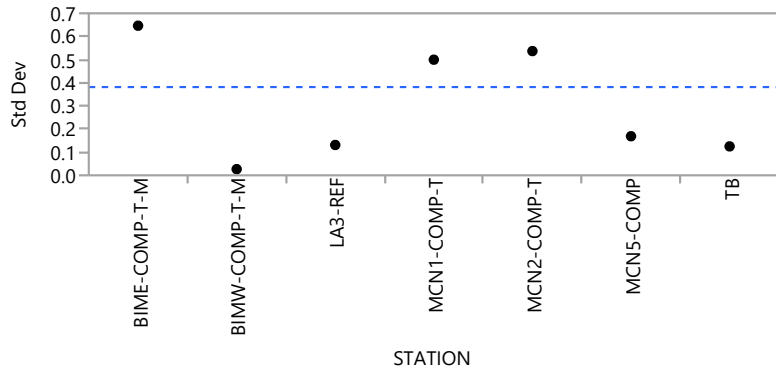
Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	110.000	90.000	22.0000	0.919
BIMW-COMP-T-M	5	50.000	90.000	10.0000	-1.862
LA3-REF	5	51.000	90.000	10.2000	-1.815
MCN1-COMP-T	5	108.000	90.000	21.6000	0.825
MCN2-COMP-T	5	86.000	90.000	17.2000	-0.165
MCN5-COMP	5	60.000	90.000	12.0000	-1.391
TB	5	165.000	90.000	33.0000	3.512

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
19.7829	6	0.0030*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.6464643	0.5562494	0.4761592
BIMW-COMP-T-M	5	0.0267124	0.0215406	0.0195516
LA3-REF	5	0.1311093	0.1018047	0.0937653
MCN1-COMP-T	5	0.4995942	0.3558857	0.2534560
MCN2-COMP-T	5	0.5367735	0.3835756	0.2553598
MCN5-COMP	5	0.1688850	0.1135923	0.1096955
TB	5	0.1250334	0.0967600	0.0904740



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB028**

**Tests that the Variances are Equal**

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.5242	6	28	0.2067
Brown-Forsythe	0.9841	6	28	0.4546
Levene	5.5900	6	28	0.0006*
Bartlett	5.4967	6	.	<.0001*

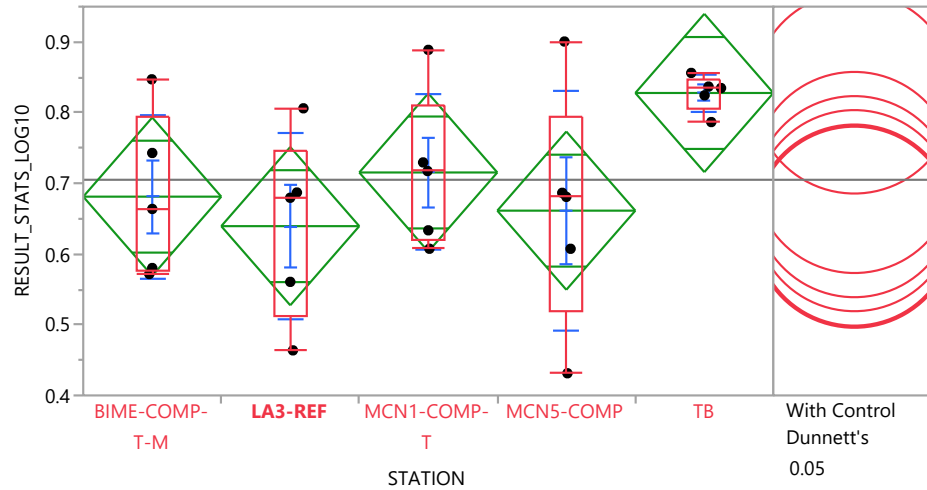
Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q\* Alpha  
1.95996 0.05

Level	- Level	Score Mean	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
MCN1-COMP-T	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.10842	0.01736	1.210442	
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.82590	0.54648	2.082122	
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	1.91793	1.71335	2.070582	
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.93090	1.68618	2.162729	
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	1.77496	0.62910	2.005998	
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	1.84454	0.60338	2.037790	
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	1.90842	1.58413	2.179032	
MCN1-COMP-T	LA3-REF	3.60000	1.914854	1.88004	0.0601	0.14297	-0.08878	1.302589	
MCN2-COMP-T	BIMW-COMP-T-M	2.80000	1.914854	1.46225	0.1437	0.03796	-0.03547	1.236162	
MCN2-COMP-T	LA3-REF	2.00000	1.914854	1.04447	0.2963	0.08715	-0.12057	1.328309	
MCN5-COMP	LA3-REF	0.80000	1.914854	0.41779	0.6761	0.00879	-0.24814	0.347563	
LA3-REF	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.00362	-0.21953	0.153366	
MCN5-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.00516	-0.24436	0.255416	
MCN1-COMP-T	BIME-COMP-T-M	-1.60000	1.914854	-0.83557	0.4034	-0.15555	-1.20585	1.006494	
MCN2-COMP-T	BIME-COMP-T-M	-1.60000	1.914854	-0.83557	0.4034	-0.20895	-1.23764	1.032214	
MCN2-COMP-T	MCN1-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-0.05339	-1.17765	1.171578	
MCN5-COMP	MCN2-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-0.03279	-1.27395	0.222624	
BIMW-COMP-T-M	BIME-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-1.13727	-1.27043	0.147446	
MCN5-COMP	BIME-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-1.01502	-1.41122	0.158362	
LA3-REF	BIME-COMP-T-M	-3.20000	1.914854	-1.67115	0.0947	-1.10500	-1.38640	0.151227	
MCN5-COMP	MCN1-COMP-T	-3.20000	1.914854	-1.67115	0.0947	-0.12843	-1.24823	0.190832	

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB029**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.571748	0.571748	0.576004	0.663806	0.795092	0.847196	0.847196
LA3-REF	0.463757	0.463757	0.512212	0.679665	0.746626	0.80618	0.80618
MCN1-COMP-T	0.607523	0.607523	0.62055	0.717453	0.809245	0.88885	0.88885
MCN5-COMP	0.431364	0.431364	0.51941	0.680884	0.793648	0.90066	0.90066
TB	0.786731	0.786731	0.805626	0.834836	0.846582	0.856234	0.856234

**Oneway Anova**

**Summary of Fit**

Rsquare	0.276071
Adj Rsquare	0.131286
Root Mean Square Error	0.11999
Mean of Response	0.705065
Observations (or Sum Wgts)	25

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	4	0.10981163	0.027453	1.9068	0.1487
Error	20	0.28795368	0.014398		
C. Total	24	0.39776531			

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB029**

**Oneway Anova**

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.681199	0.05366	0.56926	0.79313
LA3-REF	5	0.639468	0.05366	0.52753	0.75140
MCN1-COMP-T	5	0.715408	0.05366	0.60347	0.82734
MCN5-COMP	5	0.661400	0.05366	0.54946	0.77334
TB	5	0.827850	0.05366	0.71591	0.93979

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.681199	0.116021	0.05189	0.53714	0.82526
LA3-REF	5	0.639468	0.131109	0.05863	0.47667	0.80226
MCN1-COMP-T	5	0.715408	0.110255	0.04931	0.57851	0.85231
MCN5-COMP	5	0.661400	0.168885	0.07553	0.45170	0.87110
TB	5	0.827850	0.025684	0.01149	0.79596	0.85974

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.65103	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	-0.01	0.0704
MCN1-COMP-T	-0.13	0.7145
BIME-COMP-T-M	-0.16	0.9491
MCN5-COMP	-0.18	0.9950
LA3-REF	-0.2	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	56.000	65.000	11.2000	-0.577
LA3-REF	5	46.000	65.000	9.2000	-1.257
MCN1-COMP-T	5	68.000	65.000	13.6000	0.170
MCN5-COMP	5	55.000	65.000	11.0000	-0.645
TB	5	100.000	65.000	20.0000	2.344

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB029**

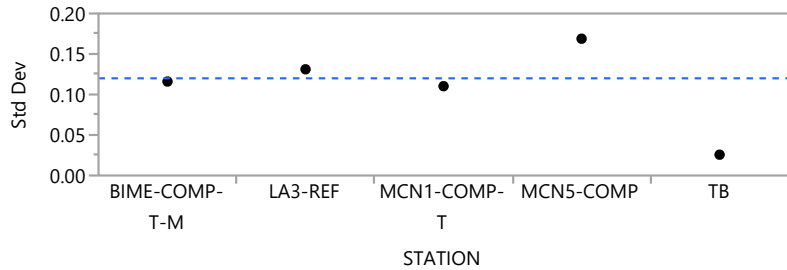
**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
6.5575	4	0.1612

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



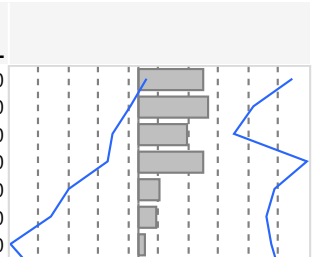
Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1160210	0.0911137	0.0876350
LA3-REF	5	0.1311094	0.1018048	0.0937654
MCN1-COMP-T	5	0.1102546	0.0758867	0.0754778
MCN5-COMP	5	0.1688849	0.1135922	0.1096954
TB	5	0.0256844	0.0177796	0.0163824

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	0.8806	4	20	0.4932
Brown-Forsythe	1.0088	4	20	0.4264
Levene	1.4077	4	20	0.2676
Bartlett	2.2352	4	.	0.0626

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*		Alpha						
1.95996		0.05						
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	LA3-REF	4.40000	1.914854	2.29783	0.0216*	0.157264	0.018340	0.3731720
TB	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	0.171030	-0.022676	0.2759740
TB	MCN1-COMP-T	2.80000	1.914854	1.46225	0.1437	0.119476	-0.064330	0.2294060
TB	MCN5-COMP	2.80000	1.914854	1.46225	0.1437	0.156045	-0.076140	0.4055650
MCN1-COMP-T	LA3-REF	1.60000	1.914854	0.83557	0.4034	0.049974	-0.172603	0.3281830
MCN1-COMP-T	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.041654	-0.213619	0.3085900
MCN5-COMP	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.017078	-0.311623	0.3204000

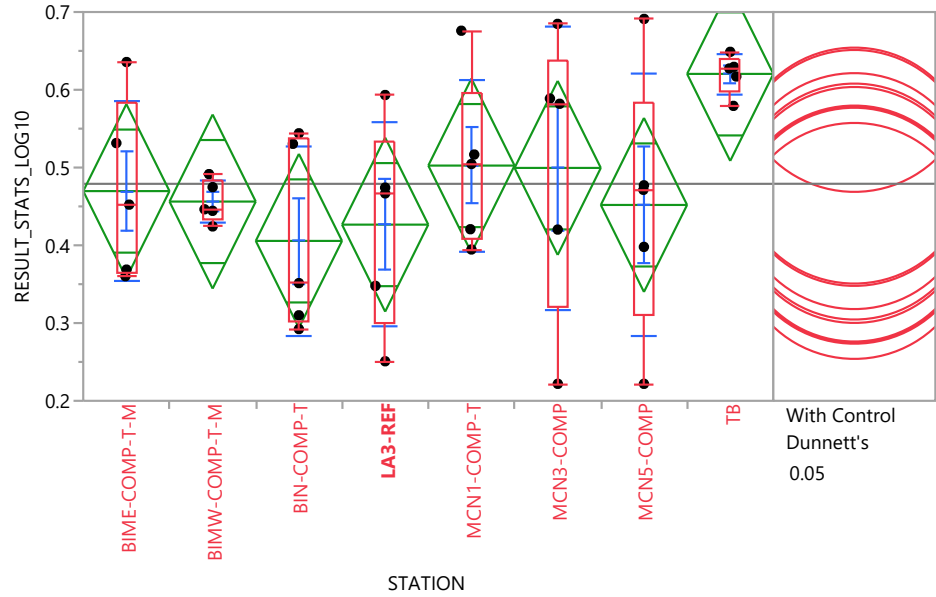


**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB029**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
MCN5-COMP	LA3-REF	0.00000	1.914854	0.00000	1.0000	0.001219	-0.255707	0.3399930	
LA3-REF	BIME-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.041016	-0.286529	0.2259200	
MCN5-COMP	MCN1-COMP-T	-1.20000	1.914854	-0.62668	0.5309	-0.036569	-0.298275	0.2670830	

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB031**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.36024	0.36024	0.364496	0.452298	0.583584	0.635688	0.635688
BIMW-COMP-T-M	0.424269	0.424269	0.434299	0.446307	0.483178	0.491551	0.491551
BIN-COMP-T	0.292256	0.292256	0.301121	0.351378	0.537282	0.544068	0.544068
LA3-REF	0.250863	0.250863	0.299318	0.466771	0.533732	0.593286	0.593286
MCN1-COMP-T	0.394629	0.394629	0.407656	0.504559	0.596351	0.675956	0.675956
MCN3-COMP	0.221849	0.221849	0.321033	0.582	0.636742	0.68473	0.68473
MCN5-COMP	0.221849	0.221849	0.309895	0.471369	0.584133	0.691145	0.691145
TB	0.5793	0.5793	0.598195	0.627405	0.639151	0.648803	0.648803

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB031**

**Oneway Anova**

**Summary of Fit**

Rsquare	0.239639
Adj Rsquare	0.07331
Root Mean Square Error	0.122853
Mean of Response	0.47906
Observations (or Sum Wgts)	40

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	7	0.15221467	0.021745	1.4408	0.2238
Error	32	0.48296786	0.015093		
C. Total	39	0.63518252			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.469691	0.05494	0.35778	0.58160
BIMW-COMP-T-M	5	0.456252	0.05494	0.34434	0.56816
BIN-COMP-T	5	0.405636	0.05494	0.29372	0.51755
LA3-REF	5	0.426574	0.05494	0.31466	0.53849
MCN1-COMP-T	5	0.502514	0.05494	0.39060	0.61443
MCN3-COMP	5	0.499510	0.05494	0.38760	0.61142
MCN5-COMP	5	0.451885	0.05494	0.33997	0.56380
TB	5	0.620419	0.05494	0.50851	0.73233

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.469691	0.116021	0.05189	0.32563	0.61375
BIMW-COMP-T-M	5	0.456252	0.026712	0.01195	0.42308	0.48942
BIN-COMP-T	5	0.405636	0.122169	0.05464	0.25394	0.55733
LA3-REF	5	0.426574	0.131109	0.05863	0.26378	0.58937
MCN1-COMP-T	5	0.502514	0.110255	0.04931	0.36562	0.63941
MCN3-COMP	5	0.499510	0.181974	0.08138	0.27356	0.72546
MCN5-COMP	5	0.451885	0.168885	0.07553	0.24219	0.66158
TB	5	0.620419	0.025684	0.01149	0.58853	0.65231

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.76173	0.05

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB031**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	-0.02	0.0900
MCN1-COMP-T	-0.14	0.8667
MCN3-COMP	-0.14	0.8864
BIME-COMP-T-M	-0.17	0.9915
BIMW-COMP-T-M	-0.18	0.9991
MCN5-COMP	-0.19	0.9997
LA3-REF	-0.21	1.0000
BIN-COMP-T	-0.19	0.9999

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	97.000	102.500	19.4000	-0.204
BIMW-COMP-T-M	5	89.000	102.500	17.8000	-0.532
BIN-COMP-T	5	70.000	102.500	14.0000	-1.309
LA3-REF	5	79.000	102.500	15.8000	-0.941
MCN1-COMP-T	5	110.000	102.500	22.0000	0.286
MCN3-COMP	5	113.500	102.500	22.7000	0.429
MCN5-COMP	5	93.500	102.500	18.7000	-0.348
TB	5	168.000	102.500	33.6000	2.658

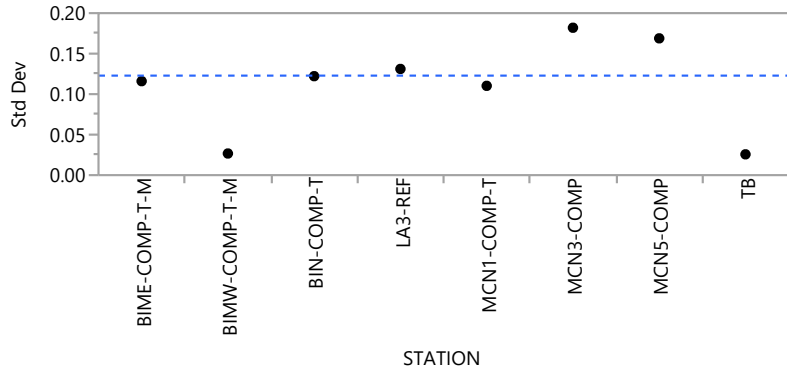
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
9.3221	7	0.2304

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB031**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1160210	0.0911137	0.0876350
BIMW-COMP-T-M	5	0.0267124	0.0215406	0.0195516
BIN-COMP-T	5	0.1221692	0.1053161	0.0944644
LA3-REF	5	0.1311094	0.1018048	0.0937654
MCN1-COMP-T	5	0.1102546	0.0758867	0.0754778
MCN3-COMP	5	0.1819744	0.1427818	0.1262838
MCN5-COMP	5	0.1688849	0.1135922	0.1096954
TB	5	0.0256844	0.0177796	0.0163824

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.0836	7	32	0.3965
Brown-Forsythe	1.0404	7	32	0.4232
Levene	2.2859	7	32	0.0524
Bartlett	2.5974	7	.	0.0112*

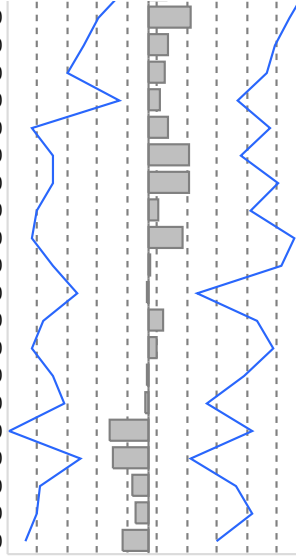
Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

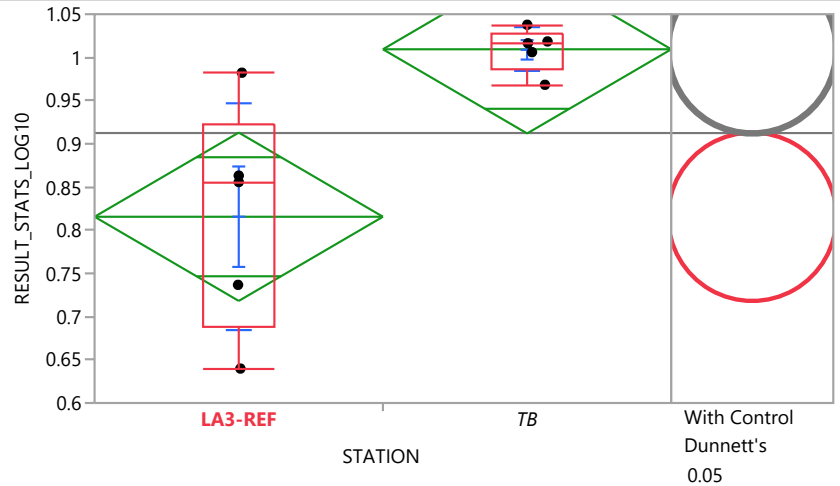
q*		Alpha							
1.95996		0.05							
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.170782	0.104495	0.2052290	
TB	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.269315	0.048805	0.3388180	
TB	LA3-REF	4.40000	1.914854	2.29783	0.0216*	0.162727	0.023803	0.3786350	
TB	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	0.175107	-0.018599	0.2800510	
TB	MCN1-COMP-T	2.80000	1.914854	1.46225	0.1437	0.124939	-0.058867	0.2348690	
TB	MCN5-COMP	2.80000	1.914854	1.46225	0.1437	0.158129	-0.074056	0.4076490	
MCN3-COMP	BIN-COMP-T	2.00000	1.914854	1.04447	0.2963	0.110231	-0.308646	0.3747450	
TB	MCN3-COMP	2.00000	1.914854	1.04447	0.2963	0.047498	-0.067641	0.4076490	



Oneway Analysis of RESULT_STATS_LOG10 By STATION CHEM_OUT=PCB031									
Nonparametric Comparisons For Each Pair Using Wilcoxon Method									
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
MCN1-COMP-T	BIN-COMP-T	1.60000	1.914854	0.83557	0.4034	0.110698	-0.135866	0.3659710	
MCN1-COMP-T	LA3-REF	1.60000	1.914854	0.83557	0.4034	0.049974	-0.172603	0.3281830	
MCN1-COMP-T	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.040268	-0.215005	0.3072040	
MCN1-COMP-T	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.029754	-0.080176	0.2316270	
MCN3-COMP	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.051464	-0.309630	0.3159780	
MCN3-COMP	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.107195	-0.252956	0.2404010	
MCN3-COMP	LA3-REF	0.80000	1.914854	0.41779	0.6761	0.107823	-0.252328	0.3378910	
MCN3-COMP	MCN1-COMP-T	0.40000	1.914854	0.20889	0.8345	0.025587	-0.294896	0.2640470	
MCN5-COMP	BIN-COMP-T	0.40000	1.914854	0.20889	0.8345	0.087955	-0.308646	0.3811600	
MCN5-COMP	LA3-REF	0.40000	1.914854	0.20889	0.8345	0.004598	-0.252328	0.3433720	
BIMW-COMP-T-M	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.005991	-0.191359	0.1227990	
LA3-REF	BIN-COMP-T	0.00000	1.914854	0.00000	1.0000	0.037788	-0.279632	0.2833010	
MCN5-COMP	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.019071	-0.309630	0.3223930	
MCN5-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.003436	-0.252956	0.2468160	
LA3-REF	BIMW-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-0.008034	-0.223942	0.1489570	
MCN5-COMP	MCN3-COMP	-0.60000	1.909043	-0.31429	0.7533	-0.104879	-0.366905	0.2709290	
BIN-COMP-T	BIMW-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.094929	-0.182549	0.1062260	
LA3-REF	BIME-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.042402	-0.287915	0.2245340	
MCN5-COMP	MCN1-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.033190	-0.294896	0.2704620	
BIN-COMP-T	BIME-COMP-T-M	-2.00000	1.914854	-1.04447	0.2963	-0.067984	-0.325703	0.1753160	



Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB033



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB033**

**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
LA3-REF	0.639849	0.639849	0.688304	0.855756	0.922717	0.982271	0.982271
TB	0.968286	0.968286	0.987178	1.01639	1.028135	1.03779	1.03779

**Oneway Anova**

**Summary of Fit**

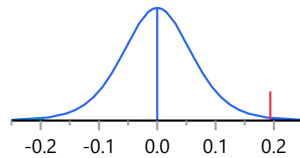
Rsquare	0.568169
Adj Rsquare	0.514191
Root Mean Square Error	0.09447
Mean of Response	0.912481
Observations (or Sum Wgts)	10

**t Test**

TB-LA3-REF

Assuming equal variances

Difference	0.193844	t Ratio	3.244346
Std Err Dif	0.059748	DF	8
Upper CL Dif	0.331623	Prob >  t	0.0118*
Lower CL Dif	0.056064	Prob > t	0.0059*
Confidence	0.95	Prob < t	0.9941



**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	1	0.09393855	0.093939	10.5258	0.0118*
Error	8	0.07139693	0.008925		
C. Total	9	0.16533547			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
LA3-REF	5	0.81556	0.04225	0.71813	0.9130
TB	5	1.00940	0.04225	0.91198	1.1068

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
LA3-REF	5	0.81556	0.131109	0.05863	0.65277	0.9784
TB	5	1.00940	0.025684	0.01149	0.97751	1.0413

**t Test**

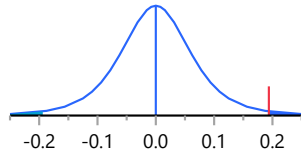
TB-LA3-REF

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB033**

**t Test**

Assuming unequal variances

Difference	0.193844	t Ratio	3.244346
Std Err Dif	0.059748	DF	4.306566
Upper CL Dif	0.355176	Prob >  t	0.0283*
Lower CL Dif	0.032511	Prob > t	0.0142*
Confidence	0.95	Prob < t	0.9858



**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.30600	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	0.056	0.0118*
LA3-REF	-0.14	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
LA3-REF	5	16.000	27.500	3.20000	-2.298
TB	5	39.000	27.500	7.80000	2.298

**2-Sample Test, Normal Approximation**

S	Z	Prob> Z
39	2.29783	0.0216*

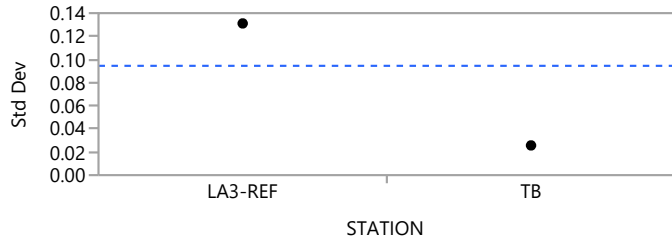
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
5.7709	1	0.0163*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB033**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
LA3-REF	5	0.1311089	0.1018043	0.0937650
TB	5	0.0256844	0.0177802	0.0163828

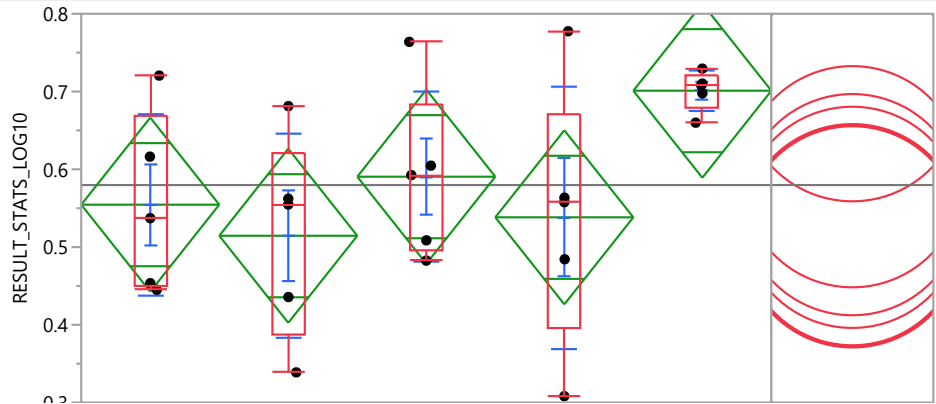
Test	F Ratio	DFNum	DFDen	p-Value
O'Brien[.5]	3.1013	1	8	0.1163
Brown-Forsythe	3.4795	1	8	0.0991
Levene	7.8464	1	8	0.0232*
Bartlett	6.9309	1	.	0.0085*
F Test 2-sided	26.0571	4	4	0.0080*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	LA3-REF	4.400000	1.914854	2.297825	0.0216*	0.1627240	0.0237990	0.3786310

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB037**



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB037**

0.5  
 BIME-COMP- T-M  
 LA3-REF  
 MCN1-COMP- T  
 MCN5-COMP  
 TB  
 With Control  
 Dunnett's  
 0.05  
 STATION

**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.445062	0.445062	0.449318	0.537119	0.668405	0.72051	0.72051
LA3-REF	0.338819	0.338819	0.387274	0.554726	0.621687	0.681241	0.681241
MCN1-COMP-T	0.482584	0.482584	0.495611	0.592515	0.684306	0.763911	0.763911
MCN5-COMP	0.308209	0.308209	0.396255	0.557729	0.670493	0.777505	0.777505
TB	0.659956	0.659956	0.678851	0.708061	0.719807	0.729459	0.729459

**Oneway Anova**

**Summary of Fit**

Rsquare	0.271361
Adj Rsquare	0.125633
Root Mean Square Error	0.11999
Mean of Response	0.579766
Observations (or Sum Wgts)	25

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	4	0.10723994	0.026810	1.8621	0.1566
Error	20	0.28795329	0.014398		
C. Total	24	0.39519324			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.554513	0.05366	0.44258	0.66645
LA3-REF	5	0.514529	0.05366	0.40259	0.62646
MCN1-COMP-T	5	0.590470	0.05366	0.47853	0.70241
MCN5-COMP	5	0.538245	0.05366	0.42631	0.65018
TB	5	0.701075	0.05366	0.58914	0.81301

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.554513	0.116021	0.05189	0.41045	0.69857
LA3-REF	5	0.514529	0.131109	0.05863	0.35174	0.67732
MCN1-COMP-T	5	0.590470	0.110255	0.04931	0.45357	0.72737
MCN5-COMP	5	0.538245	0.168885	0.07553	0.32855	0.74794
TB	5	0.701075	0.025684	0.01149	0.66918	0.73297

**Means Comparisons**

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB037**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.65103	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	-0.01	0.0739
MCN1-COMP-T	-0.13	0.7145
BIME-COMP-T-M	-0.16	0.9559
MCN5-COMP	-0.18	0.9933
LA3-REF	-0.2	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

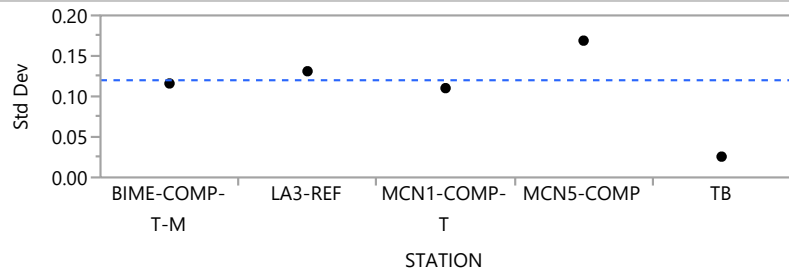
Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	56.000	65.000	11.2000	-0.577
LA3-REF	5	45.000	65.000	9.0000	-1.325
MCN1-COMP-T	5	67.000	65.000	13.4000	0.102
MCN5-COMP	5	57.000	65.000	11.4000	-0.510
TB	5	100.000	65.000	20.0000	2.344

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
6.5502	4	0.1617

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB037**

**Tests that the Variances are Equal**

Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1160211	0.0911138	0.0876350
LA3-REF	5	0.1311089	0.1018043	0.0937650
MCN1-COMP-T	5	0.1102546	0.0758869	0.0754778
MCN5-COMP	5	0.1688849	0.1135922	0.1096954
TB	5	0.0256844	0.0177796	0.0163824

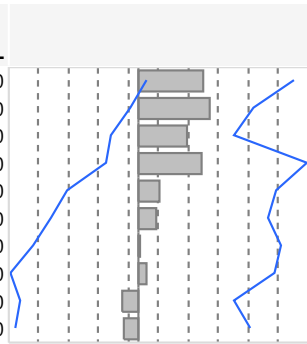
Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	0.8806	4	20	0.4932
Brown-Forsythe	1.0088	4	20	0.4264
Levene	1.4077	4	20	0.2676
Bartlett	2.2352	4	.	0.0626

Warning: Small sample sizes. Use Caution.

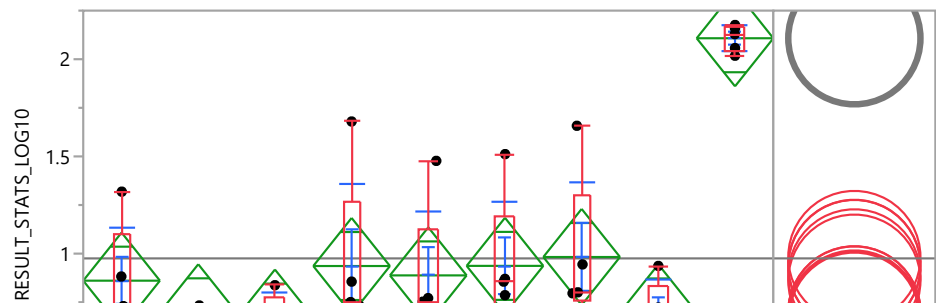
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

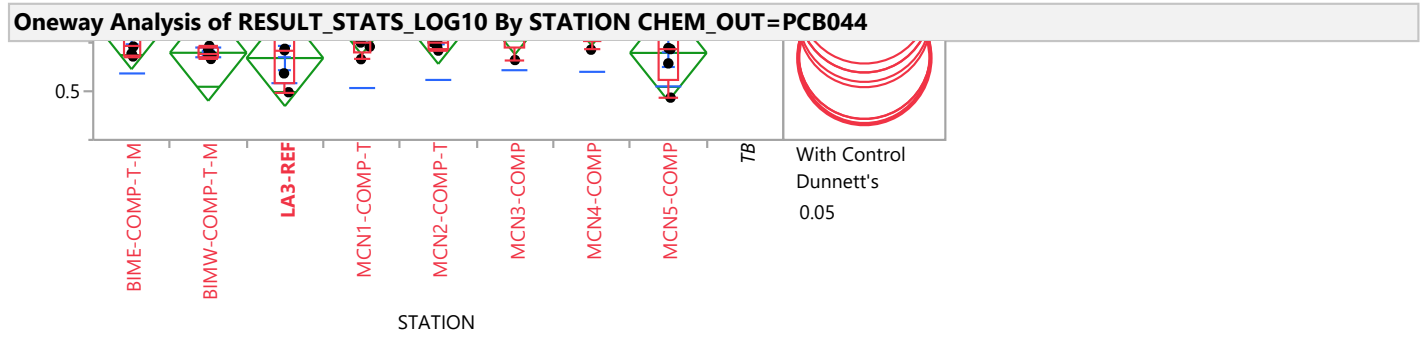
q\* Alpha  
1.95996 0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	LA3-REF	4.40000	1.914854	2.29783	0.0216*	0.155428	0.016504	0.3713350
TB	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	0.170942	-0.022765	0.2758860
TB	MCN1-COMP-T	2.80000	1.914854	1.46225	0.1437	0.117639	-0.066166	0.2275700
TB	MCN5-COMP	2.80000	1.914854	1.46225	0.1437	0.152425	-0.079760	0.4019450
MCN1-COMP-T	LA3-REF	1.60000	1.914854	0.83557	0.4034	0.049974	-0.172603	0.3281820
MCN1-COMP-T	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.043401	-0.211872	0.3103380
MCN5-COMP	LA3-REF	0.40000	1.914854	0.20889	0.8345	0.003003	-0.253923	0.3417760
MCN5-COMP	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.020610	-0.308091	0.3239320
LA3-REF	BIME-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.039269	-0.284781	0.2276680
MCN5-COMP	MCN1-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.034786	-0.296491	0.2688670



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB044**





Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.678999	0.678999	0.686559	0.730004	1.100561	1.31876	1.31876
BIMW-COMP-T-M	0.666089	0.666089	0.676119	0.688127	0.724998	0.733371	0.733371
LA3-REF	0.495166	0.495166	0.543621	0.7111073	0.778034	0.837588	0.837588
MCN1-COMP-T	0.664985	0.664985	0.697312	0.750733	1.267814	1.67966	1.67966
MCN2-COMP-T	0.70907	0.70907	0.719537	0.752655	1.124088	1.47712	1.47712
MCN3-COMP	0.660766	0.660766	0.723443	0.855968	1.19096	1.51188	1.51188
MCN4-COMP	0.713862	0.713862	0.754871	0.80096	1.301032	1.65758	1.65758
MCN5-COMP	0.467361	0.467361	0.555407	0.716882	0.829646	0.936657	0.936657
TB	2.01797	2.01797	2.0376	2.12887	2.167575	2.17609	2.17609

**Oneway Anova**

**Summary of Fit**

Rsquare	0.743743
Adj Rsquare	0.686797
Root Mean Square Error	0.272629
Mean of Response	0.975414
Observations (or Sum Wgts)	45

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	8	7.765952	0.970744	13.0605	<.0001*
Error	36	2.675760	0.074327		
C. Total	44	10.441712			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.86085	0.12192	0.6136	1.1081
BIMW-COMP-T-M	5	0.69807	0.12192	0.4508	0.9453
LA3-REF	5	0.67088	0.12192	0.4236	0.9181
MCN1-COMP-T	5	0.93620	0.12192	0.6889	1.1835
MCN2-COMP-T	5	0.88798	0.12192	0.6407	1.1353
MCN3-COMP	5	0.93695	0.12192	0.6897	1.1842



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB044**

**Oneway Anova**

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
MCN4-COMP	5	0.98255	0.12192	0.7353	1.2298
MCN5-COMP	5	0.69740	0.12192	0.4501	0.9447
TB	5	2.10784	0.12192	1.8606	2.3551

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.86085	0.268391	0.12003	0.5276	1.1941
BIMW-COMP-T-M	5	0.69807	0.026712	0.01195	0.6649	0.7312
LA3-REF	5	0.67088	0.131109	0.05863	0.5081	0.8337
MCN1-COMP-T	5	0.93620	0.421246	0.18839	0.4132	1.4592
MCN2-COMP-T	5	0.88798	0.330165	0.14765	0.4780	1.2979
MCN3-COMP	5	0.93695	0.331891	0.14843	0.5249	1.3491
MCN4-COMP	5	0.98255	0.386370	0.17279	0.5028	1.4623
MCN5-COMP	5	0.69740	0.168885	0.07553	0.4877	0.9071
TB	5	2.10784	0.067753	0.03030	2.0237	2.1920

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.78823	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	0.956	<.0001*
MCN4-COMP	-0.17	0.3526
MCN3-COMP	-0.21	0.5202
MCN1-COMP-T	-0.22	0.5232
MCN2-COMP-T	-0.26	0.7222
BIME-COMP-T-M	-0.29	0.8255
BIMW-COMP-T-M	-0.45	1.0000
MCN5-COMP	-0.45	1.0000
LA3-REF	-0.48	1.0000

Positive values show pairs of means that are significantly different.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB044**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

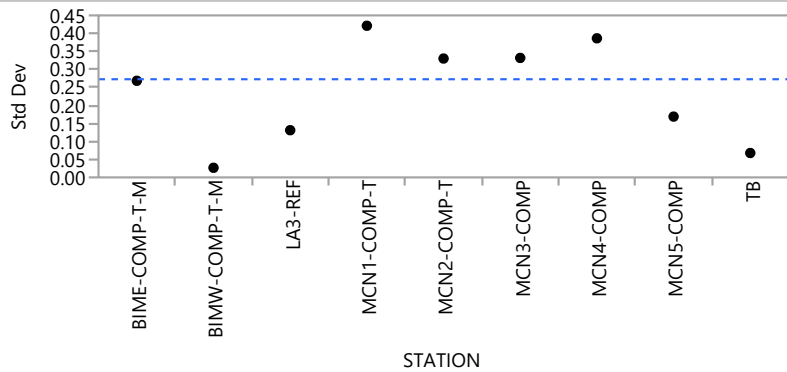
Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	108.500	115.000	21.7000	-0.217
BIMW-COMP-T-M	5	63.000	115.000	12.6000	-1.860
LA3-REF	5	64.000	115.000	12.8000	-1.824
MCN1-COMP-T	5	118.500	115.000	23.7000	0.108
MCN2-COMP-T	5	118.500	115.000	23.7000	0.108
MCN3-COMP	5	131.500	115.000	26.3000	0.578
MCN4-COMP	5	143.000	115.000	28.6000	0.993
MCN5-COMP	5	73.000	115.000	14.6000	-1.499
TB	5	215.000	115.000	43.0000	3.594

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
21.0950	8	0.0069*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif	
			to Mean	to Median
BIME-COMP-T-M	5	0.2683907	0.1917697	0.1656008
BIMW-COMP-T-M	5	0.0267124	0.0215406	0.0195516
LA3-REF	5	0.1311089	0.1018043	0.0937650
MCN1-COMP-T	5	0.4212461	0.2973852	0.2282008
MCN2-COMP-T	5	0.3301648	0.2356556	0.1618204
MCN3-COMP	5	0.3318911	0.2299701	0.1870068
MCN4-COMP	5	0.3863704	0.2700108	0.2184642
MCN5-COMP	5	0.1688849	0.1135923	0.1096954
TB	5	0.0677529	0.0561952	0.0519900

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB044**

**Tests that the Variances are Equal**

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	0.6587	8	36	0.7235
Brown-Forsythe	0.4401	8	36	0.8888
Levene	1.7270	8	36	0.1256
Bartlett	3.4504	8	.	0.0006*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q\* Alpha  
1.95996 0.05

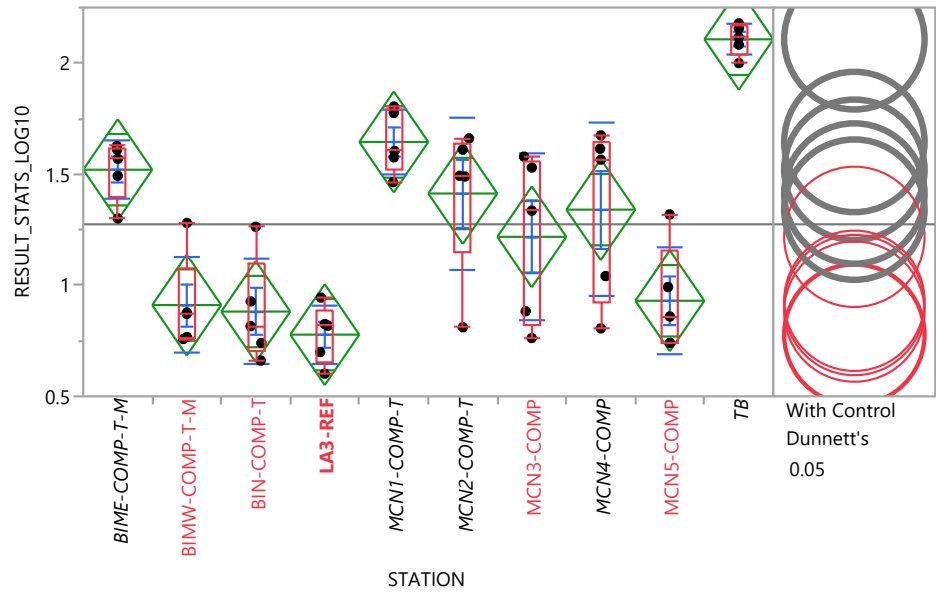
Level	- Level	Score Mean		Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
		Difference	Std Err Dif						
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	1.32723	0.73847	1.481972	
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	1.42569	1.30135	1.492971	
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.44058	1.21964	1.663894	
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	1.32012	0.37757	1.494075	
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	1.34816	0.58011	1.449990	
TB	MCN3-COMP	4.80000	1.914854	2.50672	0.0122*	1.27290	0.54535	1.498294	
TB	MCN4-COMP	4.80000	1.914854	2.50672	0.0122*	1.25627	0.39965	1.445198	
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	1.41378	1.12057	1.691699	
MCN4-COMP	BIMW-COMP-T-M	4.00000	1.914854	2.08893	0.0367*	0.11481	-0.00276	0.971431	
MCN2-COMP-T	BIMW-COMP-T-M	3.60000	1.914854	1.88004	0.0601	0.05443	-0.00755	0.790971	
MCN3-COMP	LA3-REF	3.20000	1.914854	1.67115	0.0947	0.15897	-0.05771	0.919804	
MCN4-COMP	LA3-REF	3.20000	1.914854	1.67115	0.0947	0.20888	-0.04171	1.065504	
MCN1-COMP-T	LA3-REF	2.80000	1.914854	1.46225	0.1437	0.13756	-0.10795	1.087584	
MCN3-COMP	BIMW-COMP-T-M	2.80000	1.914854	1.46225	0.1437	0.13934	-0.05586	0.825731	
MCN1-COMP-T	BIMW-COMP-T-M	2.40000	1.914854	1.25336	0.2101	0.06355	-0.05164	0.993511	
MCN2-COMP-T	LA3-REF	2.40000	1.914854	1.25336	0.2101	0.11699	-0.10758	0.885044	
MCN4-COMP	MCN2-COMP-T	2.00000	1.914854	1.04447	0.2963	0.06588	-0.68124	0.927576	
MCN3-COMP	MCN2-COMP-T	1.60000	1.914854	0.83557	0.4034	0.07705	-0.69100	0.781876	
MCN4-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.07096	-0.52288	0.963462	
MCN2-COMP-T	BIME-COMP-T-M	1.00000	1.909043	0.52382	0.6004	0.03007	-0.58876	0.783002	
MCN4-COMP	MCN1-COMP-T	0.80000	1.914854	0.41779	0.6761	0.05023	-0.88378	0.927941	
MCN3-COMP	MCN1-COMP-T	0.60000	1.909043	0.31429	0.7533	0.03539	-0.89354	0.782241	
MCN3-COMP	BIME-COMP-T-M	0.40000	1.914854	0.20889	0.8345	0.09200	-0.53264	0.817762	
MCN4-COMP	MCN3-COMP	0.40000	1.914854	0.20889	0.8345	0.01484	-0.71600	0.871460	
MCN5-COMP	LA3-REF	0.40000	1.914854	0.20889	0.8345	0.00581	-0.25112	0.344581	
LA3-REF	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.00555	-0.22146	0.151439	
MCN1-COMP-T	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.02073	-0.58912	0.985542	
MCN2-COMP-T	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	0.00036	-0.94966	0.747481	
MCN5-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.00026	-0.24926	0.250508	
MCN5-COMP	BIME-COMP-T-M	-1.60000	1.914854	-0.83557	0.4034	-0.08655	-0.67531	0.242539	
BIMW-COMP-T-M	BIME-COMP-T-M	-2.00000	1.914854	-1.04447	0.2963	-0.04188	-0.63261	0.039253	
LA3-REF	BIME-COMP-T-M	-2.00000	1.914854	-1.04447	0.2963	-0.13793	-0.72668	0.143470	

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB044**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
MCN5-COMP	MCN1-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-0.10728	-1.03621	0.207018
MCN5-COMP	MCN2-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-0.06562	-0.83367	0.206653
MCN5-COMP	MCN3-COMP	-2.40000	1.914854	-1.25336	0.2101	-0.14741	-0.86843	0.150537
MCN5-COMP	MCN4-COMP	-2.80000	1.914854	-1.46225	0.1437	-0.15751	-1.01413	0.140777

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB049**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	1.30103	1.30103	1.396975	1.56912	1.61856	1.62709	1.62709
BIMW-COMP-T-M	0.758091	0.758091	0.762663	0.871131	1.078935	1.28083	1.28083
BIN-COMP-T	0.661181	0.661181	0.700772	0.816083	1.095345	1.26324	1.26324
LA3-REF	0.60206	0.60206	0.650515	0.817968	0.884928	0.944483	0.944483
MCN1-COMP-T	1.4641	1.4641	1.519845	1.6047	1.790205	1.8046	1.8046
MCN2-COMP-T	0.810944	0.810944	1.150197	1.49292	1.635865	1.66118	1.66118
MCN3-COMP	0.762639	0.762639	0.822835	1.33579	1.55441	1.57899	1.57899
MCN4-COMP	0.805864	0.805864	0.923627	1.56543	1.64463	1.67461	1.67461
MCN5-COMP	0.740363	0.740363	0.740363	0.859549	1.155468	1.31876	1.31876
TB	2	2	2.04162	2.11651	2.167755	2.17872	2.17872

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB049**

**Oneway Anova**

**Summary of Fit**

Rsquare	0.756464
Adj Rsquare	0.701668
Root Mean Square Error	0.251293
Mean of Response	1.274404
Observations (or Sum Wgts)	50

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	9	7.845943	0.871771	13.8052	<.0001*
Error	40	2.525924	0.063148		
C. Total	49	10.371867			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.52004	0.11238	1.2929	1.7472
BIMW-COMP-T-M	5	0.91087	0.11238	0.6837	1.1380
BIN-COMP-T	5	0.88166	0.11238	0.6545	1.1088
LA3-REF	5	0.77777	0.11238	0.5506	1.0049
MCN1-COMP-T	5	1.64496	0.11238	1.4178	1.8721
MCN2-COMP-T	5	1.41301	0.11238	1.1859	1.6401
MCN3-COMP	5	1.21806	0.11238	0.9909	1.4452
MCN4-COMP	5	1.34039	0.11238	1.1133	1.5675
MCN5-COMP	5	0.93024	0.11238	0.7031	1.1574
TB	5	2.10705	0.11238	1.8799	2.3342

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.52004	0.132917	0.05944	1.3550	1.6851
BIMW-COMP-T-M	5	0.91087	0.214223	0.09580	0.6449	1.1769
BIN-COMP-T	5	0.88166	0.234828	0.10502	0.5901	1.1732
LA3-REF	5	0.77777	0.131109	0.05863	0.6150	0.9406
MCN1-COMP-T	5	1.64496	0.142960	0.06393	1.4675	1.8225
MCN2-COMP-T	5	1.41301	0.344718	0.15416	0.9850	1.8410
MCN3-COMP	5	1.21806	0.374495	0.16748	0.7531	1.6831
MCN4-COMP	5	1.34039	0.391371	0.17503	0.8544	1.8263
MCN5-COMP	5	0.93024	0.240773	0.10768	0.6313	1.2292
TB	5	2.10705	0.070226	0.03141	2.0199	2.1942

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB049**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**Confidence Quantile**

d	Alpha
2.81175	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	0.882	<.0001*
MCN1-COMP-T	0.42	<.0001*
BIME-COMP-T-M	0.295	0.0003*
MCN2-COMP-T	0.188	0.0021*
MCN4-COMP	0.116	0.0077*
MCN3-COMP	-0.01	0.0551
MCN5-COMP	-0.29	0.9213
BIMW-COMP-T-M	-0.31	0.9617
BIN-COMP-T	-0.34	0.9917
LA3-REF	-0.45	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	168.500	127.500	33.7000	1.310
BIMW-COMP-T-M	5	73.000	127.500	14.6000	-1.746
BIN-COMP-T	5	61.000	127.500	12.2000	-2.135
LA3-REF	5	51.000	127.500	10.2000	-2.458
MCN1-COMP-T	5	189.000	127.500	37.8000	1.973
MCN2-COMP-T	5	151.500	127.500	30.3000	0.760
MCN3-COMP	5	121.000	127.500	24.2000	-0.194
MCN4-COMP	5	148.000	127.500	29.6000	0.647
MCN5-COMP	5	72.000	127.500	14.4000	-1.779
TB	5	240.000	127.500	48.0000	3.622

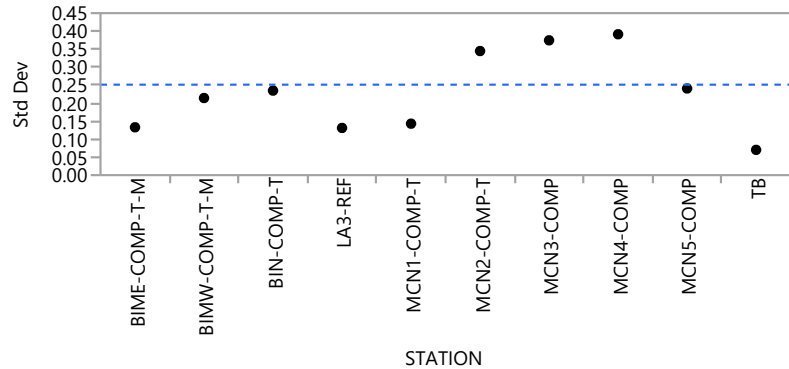
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
33.4038	9	0.0001*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB049**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1329169	0.0984504	0.0886340
BIMW-COMP-T-M	5	0.2142233	0.1479858	0.1265088
BIN-COMP-T	5	0.2348277	0.1709450	0.1578290
LA3-REF	5	0.1311093	0.1018046	0.0937652
MCN1-COMP-T	5	0.1429598	0.1161960	0.1081440
MCN2-COMP-T	5	0.3447182	0.2408259	0.1942672
MCN3-COMP	5	0.3744946	0.3161770	0.2926302
MCN4-COMP	5	0.3913705	0.3334094	0.2884012
MCN5-COMP	5	0.2407735	0.1801804	0.1660418
TB	5	0.0702260	0.0523456	0.0504540

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.4722	9	40	0.1916
Brown-Forsythe	0.9372	9	40	0.5043
Levene	3.0546	9	40	0.0071*
Bartlett	1.8227	9	.	0.0589

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*	Alpha
1.95996	0.05

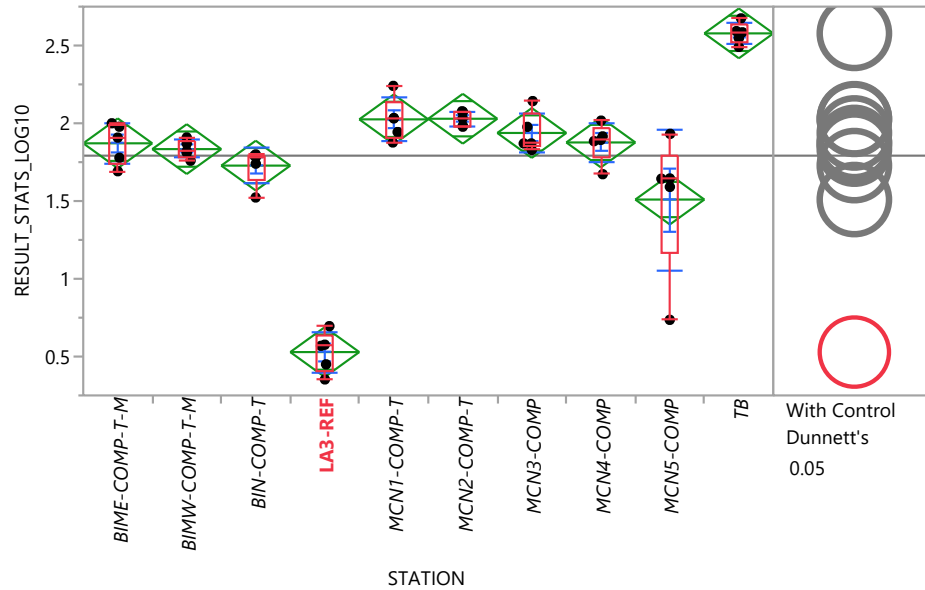
  

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
MCN1-COMP-T	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.73357	0.29476	1.03737
MCN1-COMP-T	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.80292	0.31235	1.11463
MCN1-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.86204	0.63111	1.17375
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.55163	0.38997	0.85576
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	1.24538	0.80241	1.41149
TB	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	1.26716	0.82000	1.49561

Oneway Analysis of RESULT_STATS_LOG10 By STATION CHEM_OUT=PCB049									
Nonparametric Comparisons For Each Pair Using Wilcoxon Method									
Level	- Level	Score Mean				Hodges-			
		Difference	Std Err Dif	Z	p-Value	Lehmann	Lower CL	Upper CL	
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.33142	1.13876	1.55473	
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.47854	0.22419	0.69269	
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.59032	0.38945	1.34585	
TB	MCN3-COMP	4.80000	1.914854	2.50672	0.0122*	0.78072	0.47017	1.39415	
TB	MCN4-COMP	4.80000	1.914854	2.50672	0.0122*	0.56407	0.38535	1.35093	
TB	MCN5-COMP	4.80000	1.909043	2.51435	0.0119*	1.25696	0.76448	1.43836	
MCN2-COMP-T	BIMW-COMP-T-M	3.60000	1.914854	1.88004	0.0601	0.62179	-0.06610	0.89395	
MCN2-COMP-T	BIN-COMP-T	3.60000	1.914854	1.88004	0.0601	0.67684	-0.11650	0.94937	
MCN2-COMP-T	LA3-REF	3.60000	1.914854	1.88004	0.0601	0.71670	-0.01443	1.00849	
MCN4-COMP	LA3-REF	3.60000	1.914854	1.88004	0.0601	0.73013	-0.01951	1.01259	
MCN3-COMP	LA3-REF	3.20000	1.914854	1.67115	0.0947	0.51782	-0.06273	0.92777	
MCN4-COMP	BIMW-COMP-T-M	3.20000	1.914854	1.67115	0.0947	0.39378	-0.23944	0.90738	
MCN4-COMP	BIN-COMP-T	3.20000	1.914854	1.67115	0.0947	0.41137	-0.22185	0.95347	
MCN3-COMP	BIMW-COMP-T-M	2.80000	1.914854	1.46225	0.1437	0.29816	-0.39780	0.81176	
MCN3-COMP	BIN-COMP-T	2.80000	1.914854	1.46225	0.1437	0.31575	-0.38021	0.86865	
MCN5-COMP	LA3-REF	2.00000	1.909043	1.04765	0.2948	0.13830	-0.20412	0.61979	
MCN1-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.14872	-0.14593	0.47478	
MCN4-COMP	MCN3-COMP	1.60000	1.914854	0.83557	0.4034	0.09562	-0.72397	0.85201	
MCN5-COMP	BIN-COMP-T	0.80000	1.891501	0.42294	0.6723	0.05552	-0.52288	0.57840	
MCN4-COMP	MCN2-COMP-T	0.00000	1.914854	0.00000	1.0000	0.00410	-0.80469	0.80371	
MCN2-COMP-T	BIME-COMP-T-M	-0.20000	1.909043	-0.10476	0.9166	-0.00347	-0.79909	0.30952	
LA3-REF	BIN-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.05912	-0.56427	0.20412	
MCN4-COMP	BIME-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-0.01244	-0.80417	0.31362	
MCN5-COMP	BIMW-COMP-T-M	-0.40000	1.909043	-0.20953	0.8340	-0.01749	-0.54047	0.55153	
BIN-COMP-T	BIMW-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.02687	-0.54047	0.49601	
LA3-REF	BIMW-COMP-T-M	-1.60000	1.914854	-0.83557	0.4034	-0.05912	-0.58186	0.17725	
MCN2-COMP-T	MCN1-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-0.11525	-0.96487	0.14645	
MCN3-COMP	MCN2-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-0.13135	-0.84791	0.71889	
MCN4-COMP	MCN1-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-0.18995	-0.96995	0.15055	
MCN3-COMP	BIME-COMP-T-M	-2.40000	1.914854	-1.25336	0.2101	-0.23333	-0.84739	0.22880	
MCN5-COMP	MCN3-COMP	-2.80000	1.909043	-1.46670	0.1425	-0.26023	-0.83863	0.43573	
MCN5-COMP	MCN4-COMP	-3.20000	1.909043	-1.67623	0.0937	-0.35585	-0.93425	0.27737	
MCN3-COMP	MCN1-COMP-T	-3.60000	1.914854	-1.88004	0.0601	-0.27477	-1.01317	0.06573	
MCN5-COMP	MCN2-COMP-T	-3.60000	1.909043	-1.88576	0.0593	-0.62990	-0.92082	0.18123	
MCN5-COMP	BIME-COMP-T-M	-4.40000	1.909043	-2.30482	0.0212*	-0.63337	-0.88673	-0.17416	
BIMW-COMP-T-M	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.69799	-0.85986	-0.21209	
BIN-COMP-T	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.68258	-0.94885	-0.22968	
LA3-REF	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.75115	-1.00797	-0.47566	
MCN5-COMP	MCN1-COMP-T	-4.80000	1.909043	-2.51435	0.0119*	-0.74515	-1.06424	-0.25683	



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB052**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	1.69167	1.69167	1.73491	1.90794	1.989005	2	2
BIMW-COMP-T-M	1.75927	1.75927	1.784695	1.82193	1.888995	1.90892	1.90892
BIN-COMP-T	1.52288	1.52288	1.63162	1.78414	1.795795	1.79987	1.79987
LA3-REF	0.353059	0.353059	0.401514	0.568967	0.635927	0.695482	0.695482
MCN1-COMP-T	1.87662	1.87662	1.91007	2.03179	2.137005	2.24033	2.24033
MCN2-COMP-T	1.97801	1.97801	1.9812	2.03253	2.0753	2.07717	2.07717
MCN3-COMP	1.82846	1.82846	1.849335	1.87037	2.0598	2.14267	2.14267
MCN4-COMP	1.67264	1.67264	1.778845	1.89311	1.966355	2.01703	2.01703
MCN5-COMP	0.736112	0.736112	1.163586	1.64345	1.788595	1.9321	1.9321
TB	2.49116	2.49116	2.51892	2.58503	2.63356	2.67461	2.67461

**Oneway Anova**

**Summary of Fit**

Rsquare	0.906789
Adj Rsquare	0.885816
Root Mean Square Error	0.177226
Mean of Response	1.791786
Observations (or Sum Wgts)	50

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB052**

**Oneway Anova**

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	9	12.222306	1.35803	43.2370	<.0001*
Error	40	1.256363	0.03141		
C. Total	49	13.478668			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.87115	0.07926	1.7110	2.0313
BIMW-COMP-T-M	5	1.83386	0.07926	1.6737	1.9940
BIN-COMP-T	5	1.72779	0.07926	1.5676	1.8880
LA3-REF	5	0.52877	0.07926	0.3686	0.6890
MCN1-COMP-T	5	2.02519	0.07926	1.8650	2.1854
MCN2-COMP-T	5	2.02911	0.07926	1.8689	2.1893
MCN3-COMP	5	1.93773	0.07926	1.7775	2.0979
MCN4-COMP	5	1.87670	0.07926	1.7165	2.0369
MCN5-COMP	5	1.50956	0.07926	1.3494	1.6697
TB	5	2.57800	0.07926	2.4178	2.7382

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.87115	0.132511	0.05926	1.7066	2.0357
BIMW-COMP-T-M	5	1.83386	0.057322	0.02564	1.7627	1.9050
BIN-COMP-T	5	1.72779	0.116838	0.05225	1.5827	1.8729
LA3-REF	5	0.52877	0.131109	0.05863	0.3660	0.6916
MCN1-COMP-T	5	2.02519	0.137062	0.06130	1.8550	2.1954
MCN2-COMP-T	5	2.02911	0.047161	0.02109	1.9705	2.0877
MCN3-COMP	5	1.93773	0.127056	0.05682	1.7800	2.0955
MCN4-COMP	5	1.87670	0.125690	0.05621	1.7206	2.0328
MCN5-COMP	5	1.50956	0.452686	0.20245	0.9475	2.0716
TB	5	2.57800	0.067297	0.03010	2.4944	2.6616

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB052**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	1.734	<.0001*
MCN2-COMP-T	1.185	<.0001*
MCN1-COMP-T	1.181	<.0001*
MCN3-COMP	1.094	<.0001*
MCN4-COMP	1.033	<.0001*
BIME-COMP-T-M	1.027	<.0001*
BIMW-COMP-T-M	0.99	<.0001*
BIN-COMP-T	0.884	<.0001*
MCN5-COMP	0.666	<.0001*
LA3-REF	-0.32	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	126.500	127.500	25.3000	-0.016
BIMW-COMP-T-M	5	104.000	127.500	20.8000	-0.744
BIN-COMP-T	5	71.000	127.500	14.2000	-1.811
LA3-REF	5	15.000	127.500	3.0000	-3.622
MCN1-COMP-T	5	182.000	127.500	36.4000	1.746
MCN2-COMP-T	5	195.500	127.500	39.1000	2.183
MCN3-COMP	5	145.000	127.500	29.0000	0.550
MCN4-COMP	5	132.000	127.500	26.4000	0.129
MCN5-COMP	5	64.000	127.500	12.8000	-2.037
TB	5	240.000	127.500	48.0000	3.622

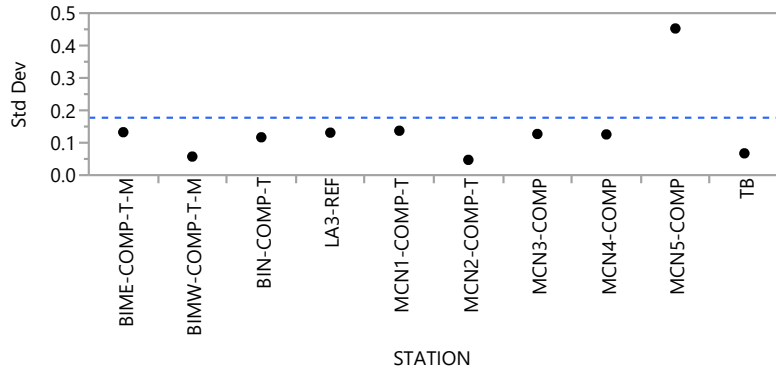
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
38.6004	9	<.0001*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB052**

**Tests that the Variances are Equal**



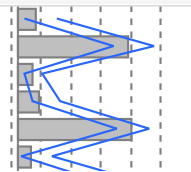
Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1325113	0.1089952	0.1016380
BIMW-COMP-T-M	5	0.0573222	0.0441064	0.0417200
BIN-COMP-T	5	0.1168375	0.0819656	0.0656700
LA3-REF	5	0.1311093	0.1018046	0.0937652
MCN1-COMP-T	5	0.1370619	0.0920944	0.0907740
MCN2-COMP-T	5	0.0471615	0.0383248	0.0376400
MCN3-COMP	5	0.1270564	0.0976576	0.0841860
MCN4-COMP	5	0.1256895	0.0816248	0.0750040
MCN5-COMP	5	0.4526862	0.3093802	0.2500036
TB	5	0.0672971	0.0472624	0.0458560

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.3449	9	40	0.2455
Brown-Forsythe	0.8877	9	40	0.5444
Levene	2.5099	9	40	0.0221*
Bartlett	3.6033	9	.	0.0002*

Warning: Small sample sizes. Use Caution.

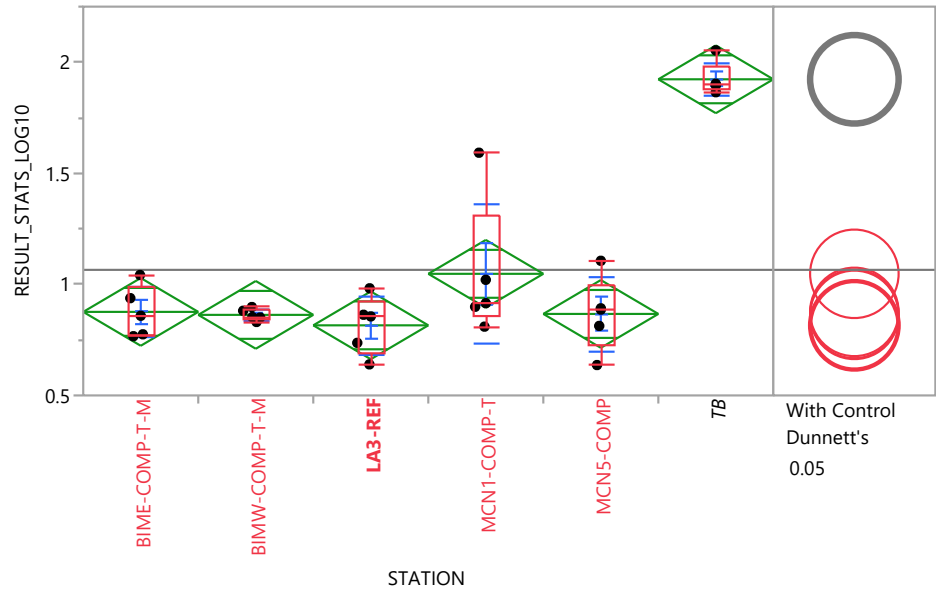
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*	Alpha	Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1.95996	0.05	MCN1-COMP-T	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.24765	0.08490	0.51080
		MCN1-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.46471	1.24804	1.79036
		MCN2-COMP-T	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.20436	0.07547	0.31416
		MCN2-COMP-T	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.27730	0.18452	0.55055
		MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.50080	1.28891	1.72037
		MCN3-COMP	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.17706	0.03674	0.45405



Oneway Analysis of RESULT_STATS_LOG10 By STATION CHEM_OUT=PCB052									
Nonparametric Comparisons For Each Pair Using Wilcoxon Method									
Level	- Level	Score Mean				Hodges-			
		Difference	Std Err Dif	Z	p-Value	Lehmann	Lower CL	Upper CL	
MCN3-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.40796	1.17473	1.69270	
MCN4-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.32414	1.09627	1.56706	
MCN5-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.07448	0.15974	1.48213	
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.68457	0.51315	0.90084	
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.73656	0.62209	0.86449	
TB	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.80632	0.69944	1.06963	
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	2.02354	1.85120	2.23945	
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.55883	0.30635	0.73109	
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.55250	0.41773	0.69022	
TB	MCN3-COMP	4.80000	1.914854	2.50672	0.0122*	0.67631	0.40401	0.80440	
TB	MCN4-COMP	4.80000	1.914854	2.50672	0.0122*	0.67683	0.52965	0.91987	
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	0.94742	0.61458	1.85640	
MCN1-COMP-T	BIMW-COMP-T-M	4.40000	1.914854	2.29783	0.0216*	0.16461	0.00755	0.43021	
MCN2-COMP-T	BIME-COMP-T-M	3.80000	1.909043	1.99053	0.0465*	0.12459	-0.01561	0.38176	
MCN3-COMP	BIMW-COMP-T-M	3.20000	1.914854	1.67115	0.0947	0.06801	-0.04061	0.33255	
MCN4-COMP	BIN-COMP-T	3.20000	1.914854	1.67115	0.0947	0.13154	-0.11908	0.39280	
MCN1-COMP-T	BIME-COMP-T-M	2.80000	1.914854	1.46225	0.1437	0.12574	-0.10139	0.46218	
MCN4-COMP	BIMW-COMP-T-M	2.00000	1.914854	1.04447	0.2963	0.07118	-0.19643	0.20691	
MCN2-COMP-T	MCN1-COMP-T	0.80000	1.914854	0.41779	0.6761	0.03975	-0.25594	0.19681	
MCN3-COMP	BIME-COMP-T-M	0.40000	1.914854	0.20889	0.8345	0.06899	-0.14955	0.36452	
MCN4-COMP	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.01483	-0.30537	0.23888	
MCN4-COMP	MCN3-COMP	0.00000	1.914854	0.00000	1.0000	0.01468	-0.30429	0.14682	
BIMW-COMP-T-M	BIME-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.06909	-0.21874	0.17740	
MCN5-COMP	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-0.14663	-1.05561	0.19174	
BIN-COMP-T	BIME-COMP-T-M	-2.00000	1.914854	-1.04447	0.2963	-0.16879	-0.45513	0.10005	
MCN3-COMP	MCN1-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-0.07331	-0.37012	0.19915	
MCN3-COMP	MCN2-COMP-T	-2.80000	1.914854	-1.46225	0.1437	-0.11402	-0.24497	0.15828	
MCN4-COMP	MCN1-COMP-T	-2.80000	1.914854	-1.46225	0.1437	-0.13868	-0.36104	0.07351	
MCN5-COMP	BIMW-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-0.21906	-1.13296	0.12198	
MCN5-COMP	MCN4-COMP	-3.20000	1.914854	-1.67115	0.0947	-0.27059	-1.17957	0.04705	
BIN-COMP-T	BIMW-COMP-T-M	-3.60000	1.914854	-1.88004	0.0601	-0.07735	-0.34619	0.03245	
MCN5-COMP	BIME-COMP-T-M	-3.60000	1.914854	-1.88004	0.0601	-0.26449	-1.24190	0.15395	
MCN5-COMP	MCN3-COMP	-3.60000	1.914854	-1.88004	0.0601	-0.27915	-1.24082	0.06189	
MCN4-COMP	MCN2-COMP-T	-4.00000	1.914854	-2.08893	0.0367*	-0.13942	-0.40079	0.03264	
MCN5-COMP	MCN1-COMP-T	-4.40000	1.914854	-2.29783	0.0216*	-0.38834	-1.29757	-0.01142	
LA3-REF	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-1.33861	-1.62495	-1.08267	
LA3-REF	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-1.30010	-1.51601	-1.11464	
LA3-REF	BIN-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-1.21517	-1.43866	-0.94651	
MCN5-COMP	MCN2-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-0.39333	-1.33732	-0.05229	

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB056**



Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.766613	0.766613	0.770869	0.858671	0.989956	1.04206	1.04206
BIMW-COMP-T-M	0.830642	0.830642	0.840672	0.852681	0.889551	0.897924	0.897924
LA3-REF	0.639849	0.639849	0.688304	0.855756	0.922717	0.982271	0.982271
MCN1-COMP-T	0.809668	0.809668	0.854384	0.915286	1.306515	1.59251	1.59251
MCN5-COMP	0.636822	0.636822	0.724868	0.886342	0.999108	1.10612	1.10612
TB	1.86475	1.86475	1.880765	1.89693	1.97817	2.05325	2.05325

**Oneway Anova**

**Summary of Fit**

Rsquare	0.874622
Adj Rsquare	0.848502
Root Mean Square Error	0.165265
Mean of Response	1.065247
Observations (or Sum Wgts)	30

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	5	4.5726854	0.914537	33.4843	<.0001*
Error	24	0.6554976	0.027312		
C. Total	29	5.2281830			

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB056**

**Oneway Anova**

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.87606	0.07391	0.7235	1.0286
BIMW-COMP-T-M	5	0.86263	0.07391	0.7101	1.0152
LA3-REF	5	0.81556	0.07391	0.6630	0.9681
MCN1-COMP-T	5	1.04742	0.07391	0.8949	1.2000
MCN5-COMP	5	0.86686	0.07391	0.7143	1.0194
TB	5	1.92296	0.07391	1.7704	2.0755

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.87606	0.116021	0.05189	0.7320	1.0201
BIMW-COMP-T-M	5	0.86263	0.026712	0.01195	0.8295	0.8958
LA3-REF	5	0.81556	0.131109	0.05863	0.6528	0.9784
MCN1-COMP-T	5	1.04742	0.313780	0.14033	0.6578	1.4370
MCN5-COMP	5	0.86686	0.168886	0.07553	0.6572	1.0766
TB	5	1.92296	0.074367	0.03326	1.8306	2.0153

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.69532	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	0.826	<.0001*
MCN1-COMP-T	-0.05	0.1323
BIME-COMP-T-M	-0.22	0.9665
MCN5-COMP	-0.23	0.9831
BIMW-COMP-T-M	-0.23	0.9884
LA3-REF	-0.28	1.0000

Positive values show pairs of means that are significantly different.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB056**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

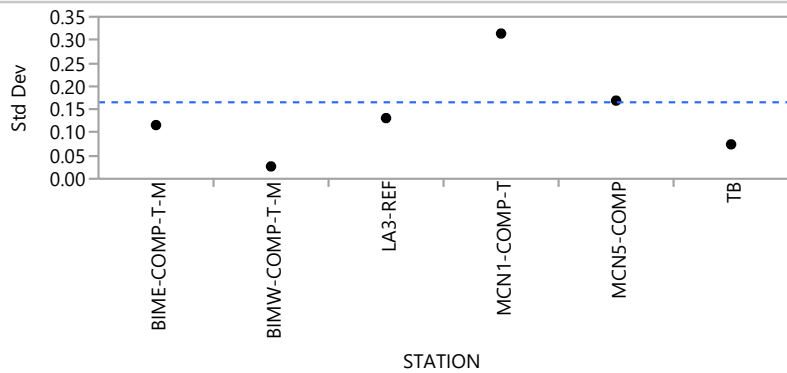
Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	64.000	77.500	12.8000	-0.723
BIMW-COMP-T-M	5	58.000	77.500	11.6000	-1.057
LA3-REF	5	50.000	77.500	10.0000	-1.503
MCN1-COMP-T	5	90.000	77.500	18.0000	0.668
MCN5-COMP	5	63.000	77.500	12.6000	-0.779
TB	5	140.000	77.500	28.0000	3.450

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
14.4297	5	0.0131*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif	
			to Mean	to Median
BIME-COMP-T-M	5	0.1160206	0.0911134	0.0876348
BIMW-COMP-T-M	5	0.0267123	0.0215405	0.0195516
LA3-REF	5	0.1311089	0.1018043	0.0937650
MCN1-COMP-T	5	0.3137798	0.2180373	0.1808524
MCN5-COMP	5	0.1688857	0.1135927	0.1096960
TB	5	0.0743668	0.0521160	0.0389620

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.1147	5	24	0.3790
Brown-Forsythe	0.8792	5	24	0.5099
Levene	2.2272	5	24	0.0846
Bartlett	3.7089	5	.	0.0023*

Warning: Small sample sizes. Use Caution.

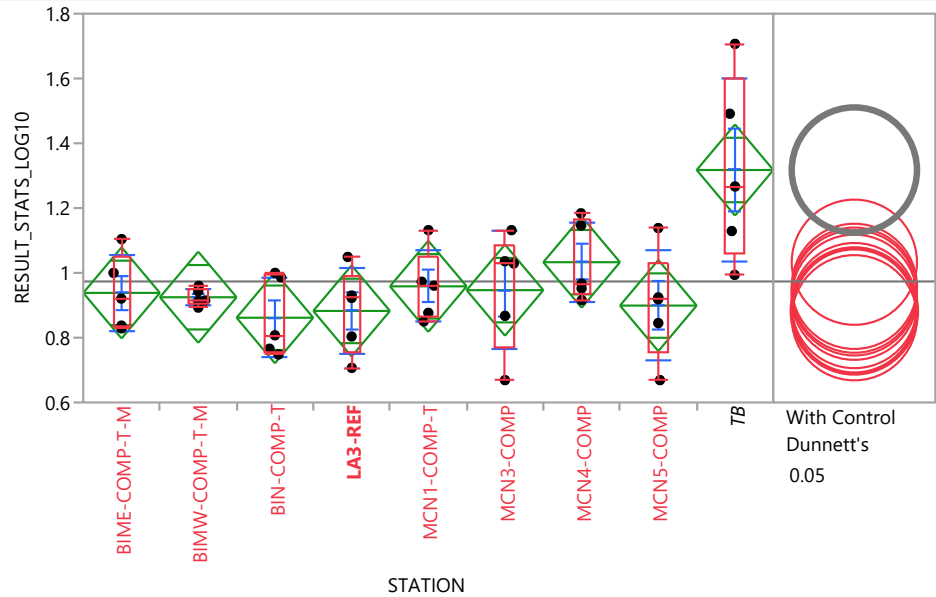


**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB056**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*		Alpha								
1.95996		0.05								
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL		
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	1.04442	0.854720	1.278125		
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	1.04425	0.983572	1.202548		
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.07098	0.914509	1.316491		
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.98164	0.304270	1.154150		
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	1.01675	0.790660	1.266268		
MCN1-COMP-T	BIMW-COMP-T-M	2.80000	1.914854	1.46225	0.1437	0.06458	-0.071510	0.741808		
MCN1-COMP-T	LA3-REF	2.80000	1.914854	1.46225	0.1437	0.16234	-0.083171	0.855751		
MCN1-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.08267	-0.142960	0.817385		
MCN5-COMP	LA3-REF	0.80000	1.914854	0.41779	0.6761	0.03059	-0.226340	0.369361		
BIMW-COMP-T-M	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.00599	-0.191358	0.122799		
MCN5-COMP	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.02767	-0.301030	0.330995		
MCN5-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.00516	-0.244356	0.255418		
LA3-REF	BIMW-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-0.02542	-0.241329	0.131569		
LA3-REF	BIME-COMP-T-M	-1.20000	1.914854	-0.62668	0.5309	-0.05979	-0.305301	0.207146		
MCN5-COMP	MCN1-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-0.10237	-0.779597	0.207020		

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB060**



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB060**

**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.828761	0.828761	0.833017	0.920819	1.052105	1.10421	1.10421
BIMW-COMP-T-M	0.89279	0.89279	0.90282	0.914828	0.951699	0.960072	0.960072
BIN-COMP-T	0.748188	0.748188	0.757053	0.80731	0.993214	1	1
LA3-REF	0.706795	0.706795	0.75525	0.922703	0.989665	1.04922	1.04922
MCN1-COMP-T	0.850561	0.850561	0.863588	0.960491	1.052284	1.13189	1.13189
MCN3-COMP	0.669007	0.669007	0.768191	1.02916	1.0839	1.13189	1.13189
MCN4-COMP	0.915679	0.915679	0.933836	0.966832	1.165025	1.18392	1.18392
MCN5-COMP	0.669007	0.669007	0.757053	0.918527	1.03129	1.1383	1.1383
TB	0.99384	0.99384	1.061465	1.26666	1.59898	1.7068	1.7068

**Oneway Anova**

**Summary of Fit**

Rsquare	0.468938
Adj Rsquare	0.350925
Root Mean Square Error	0.155023
Mean of Response	0.973515
Observations (or Sum Wgts)	45

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	8	0.7639551	0.095494	3.9736	0.0019*
Error	36	0.8651611	0.024032		
C. Total	44	1.6291162			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.93821	0.06933	0.7976	1.0788
BIMW-COMP-T-M	5	0.92477	0.06933	0.7842	1.0654
BIN-COMP-T	5	0.86157	0.06933	0.7210	1.0022
LA3-REF	5	0.88251	0.06933	0.7419	1.0231
MCN1-COMP-T	5	0.95845	0.06933	0.8178	1.0991
MCN3-COMP	5	0.94667	0.06933	0.8061	1.0873
MCN4-COMP	5	1.03291	0.06933	0.8923	1.1735
MCN5-COMP	5	0.89904	0.06933	0.7584	1.0396
TB	5	1.31751	0.06933	1.1769	1.4581

Std Error uses a pooled estimate of error variance

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB060**

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.93821	0.116021	0.05189	0.79415	1.0823
BIMW-COMP-T-M	5	0.92477	0.026712	0.01195	0.89161	0.9579
BIN-COMP-T	5	0.86157	0.122169	0.05464	0.70988	1.0133
LA3-REF	5	0.88251	0.131110	0.05863	0.71971	1.0453
MCN1-COMP-T	5	0.95845	0.110255	0.04931	0.82155	1.0953
MCN3-COMP	5	0.94667	0.181975	0.08138	0.72072	1.1726
MCN4-COMP	5	1.03291	0.122760	0.05490	0.88048	1.1853
MCN5-COMP	5	0.89904	0.168884	0.07553	0.68935	1.1087
TB	5	1.31751	0.284847	0.12739	0.96383	1.6712

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.78823	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	0.162	0.0006*
MCN4-COMP	-0.12	0.5265
MCN1-COMP-T	-0.2	0.9657
MCN3-COMP	-0.21	0.9868
BIME-COMP-T-M	-0.22	0.9945
BIMW-COMP-T-M	-0.23	0.9991
MCN5-COMP	-0.26	1.0000
LA3-REF	-0.27	1.0000
BIN-COMP-T	-0.25	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	103.500	115.000	20.7000	-0.397
BIMW-COMP-T-M	5	93.000	115.000	18.6000	-0.777
BIN-COMP-T	5	76.500	115.000	15.3000	-1.373
LA3-REF	5	86.000	115.000	17.2000	-1.029
MCN1-COMP-T	5	116.500	115.000	23.3000	0.036
MCN3-COMP	5	119.000	115.000	23.8000	0.126
MCN4-COMP	5	151.000	115.000	30.2000	1.282
MCN5-COMP	5	90.500	115.000	18.1000	-0.867

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB060**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

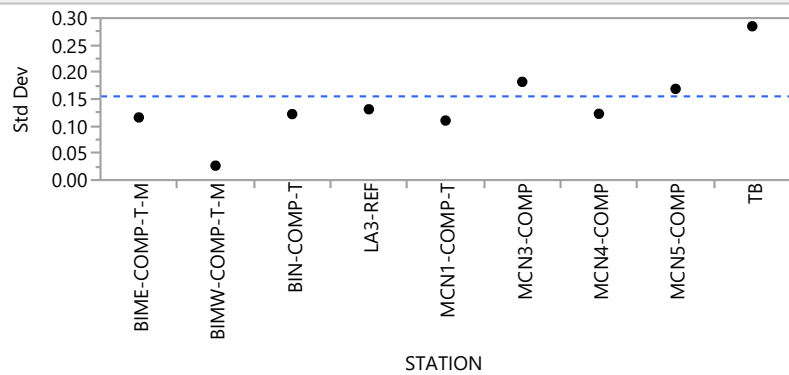
Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
TB	5	199.000	115.000	39.8000	3.016

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
13.8114	8	0.0868

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1160213	0.0911139	0.0876352
BIMW-COMP-T-M	5	0.0267124	0.0215406	0.0195516
BIN-COMP-T	5	0.1221692	0.1053161	0.0944644
LA3-REF	5	0.1311100	0.1018051	0.0937658
MCN1-COMP-T	5	0.1102554	0.0758870	0.0754782
MCN3-COMP	5	0.1819749	0.1427822	0.1262838
MCN4-COMP	5	0.1227598	0.1056915	0.0924758
MCN5-COMP	5	0.1688838	0.1135918	0.1096948
TB	5	0.2848469	0.2251760	0.2150060

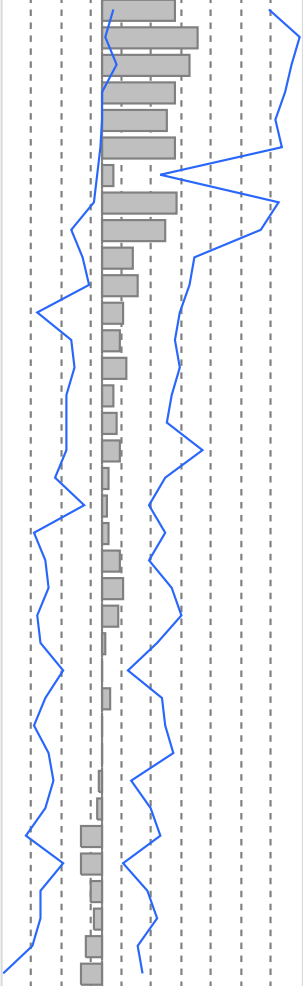
Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.8841	8	36	0.0932
Brown-Forsythe	1.2328	8	36	0.3087
Levene	2.5569	8	36	0.0256*
Bartlett	1.9896	8	.	0.0436*

Warning: Small sample sizes. Use Caution.

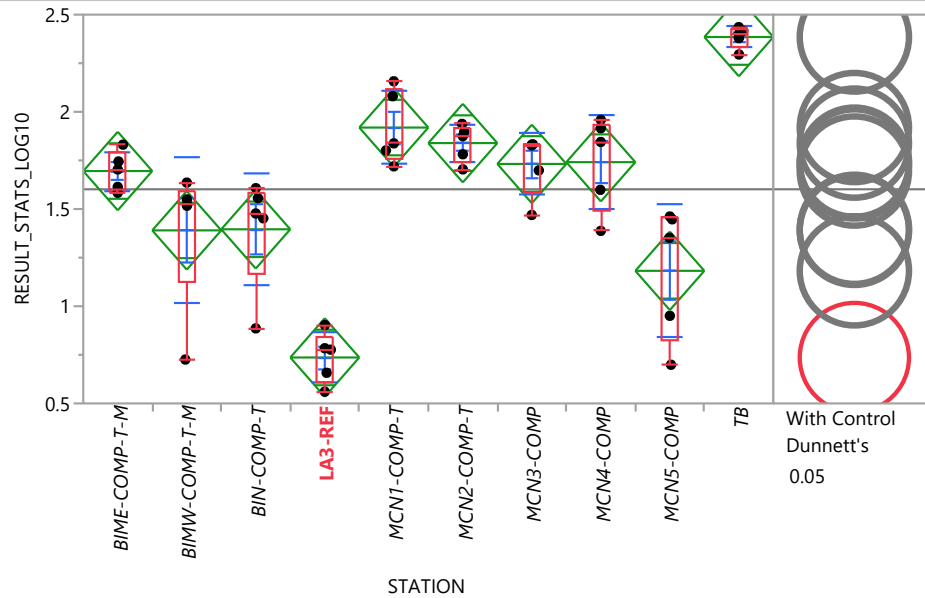
**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB060**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

		q*	Alpha								
		1.95996	0.05								
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL			
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.351832	0.050514	0.7939500			
TB	BIN-COMP-T	4.40000	1.914854	2.29783	0.0216*	0.459350	0.007413	0.9408830			
TB	LA3-REF	4.40000	1.914854	2.29783	0.0216*	0.422295	-0.063731	0.9030950			
TB	BIME-COMP-T-M	4.00000	1.914854	2.08893	0.0367*	0.345841	-0.006160	0.8695270			
TB	MCN1-COMP-T	4.00000	1.914854	2.08893	0.0367*	0.306169	-0.002800	0.8301850			
TB	MCN5-COMP	4.00000	1.914854	2.08893	0.0367*	0.352860	-0.009210	0.8617020			
MCN4-COMP	BIMW-COMP-T-M	3.60000	1.914854	1.88004	0.0601	0.053982	-0.027647	0.2710700			
TB	MCN3-COMP	3.20000	1.914854	1.67115	0.0947	0.359270	-0.042070	0.8394260			
TB	MCN4-COMP	3.20000	1.914854	1.67115	0.0947	0.299828	-0.152290	0.7548080			
MCN4-COMP	LA3-REF	2.80000	1.914854	1.46225	0.1437	0.148287	-0.097228	0.4393350			
MCN4-COMP	BIN-COMP-T	2.40000	1.914854	1.25336	0.2101	0.167491	-0.070748	0.4180030			
MCN3-COMP	BIN-COMP-T	2.00000	1.914854	1.04447	0.2963	0.101457	-0.317420	0.3659730			
MCN4-COMP	BIME-COMP-T-M	2.00000	1.914854	1.04447	0.2963	0.086918	-0.152218	0.3466470			
MCN1-COMP-T	BIN-COMP-T	1.60000	1.914854	0.83557	0.4034	0.110698	-0.135866	0.3659730			
MCN1-COMP-T	LA3-REF	1.60000	1.914854	0.83557	0.4034	0.049974	-0.172605	0.3281850			
MCN4-COMP	MCN1-COMP-T	1.60000	1.914854	0.83557	0.4034	0.065118	-0.179898	0.3073050			
MCN4-COMP	MCN3-COMP	1.20000	1.914854	0.62668	0.5309	0.084618	-0.179898	0.4771230			
MCN1-COMP-T	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.027680	-0.227595	0.2946170			
MCN1-COMP-T	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.017165	-0.092765	0.2190400			
MCN3-COMP	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.030101	-0.330993	0.2946170			
MCN3-COMP	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.085834	-0.274319	0.2190400			
MCN3-COMP	LA3-REF	0.80000	1.914854	0.41779	0.6761	0.099051	-0.261102	0.3291150			
MCN5-COMP	BIN-COMP-T	0.40000	1.914854	0.20889	0.8345	0.079181	-0.317420	0.3723830			
MCN3-COMP	MCN1-COMP-T	0.20000	1.909043	0.10476	0.9166	0.016813	-0.303670	0.2552750			
BIMW-COMP-T-M	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.005991	-0.191360	0.1227990			
LA3-REF	BIN-COMP-T	0.00000	1.914854	0.00000	1.0000	0.037788	-0.279632	0.2833030			
MCN5-COMP	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.002292	-0.330993	0.3010270			
MCN5-COMP	LA3-REF	0.00000	1.914854	0.00000	1.0000	-0.004176	-0.261102	0.3345950			
LA3-REF	BIMW-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-0.020623	-0.236531	0.1363700			
MCN5-COMP	BIMW-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-0.024799	-0.274319	0.2254500			
MCN5-COMP	MCN3-COMP	-0.60000	1.909043	-0.31429	0.7533	-0.104881	-0.366903	0.2709260			
BIN-COMP-T	BIMW-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.107518	-0.195138	0.0936370			
LA3-REF	BIME-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.054990	-0.300505	0.2119470			
MCN5-COMP	MCN1-COMP-T	-1.20000	1.914854	-0.62668	0.5309	-0.041964	-0.303670	0.2616850			
BIN-COMP-T	BIME-COMP-T-M	-2.20000	1.909043	-1.15241	0.2492	-0.080573	-0.338293	0.1627270			
MCN5-COMP	MCN4-COMP	-2.80000	1.914854	-1.46225	0.1437	-0.106894	-0.477123	0.1863080			



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB066**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	1.58358	1.58358	1.59877	1.70382	1.78797	1.83121	1.83121
BIMW-COMP-T-M	0.725842	0.725842	1.121366	1.52288	1.592795	1.63592	1.63592
BIN-COMP-T	0.886057	0.886057	1.169179	1.47712	1.58175	1.6072	1.6072
LA3-REF	0.560667	0.560667	0.609122	0.776575	0.843536	0.90309	0.90309
MCN1-COMP-T	1.71965	1.71965	1.760495	1.8377	2.118615	2.157	2.157
MCN2-COMP-T	1.70405	1.70405	1.74288	1.87506	1.917595	1.93785	1.93785
MCN3-COMP	1.46943	1.46943	1.5842	1.82764	1.83186	1.83286	1.83286
MCN4-COMP	1.38772	1.38772	1.493285	1.8451	1.937145	1.95861	1.95861
MCN5-COMP	0.69897	0.69897	0.824876	1.35218	1.454385	1.46161	1.46161
TB	2.29487	2.29487	2.33703	2.39794	2.426075	2.43573	2.43573

**Oneway Anova**

**Summary of Fit**

Rsquare	0.820619
Adj Rsquare	0.780258
Root Mean Square Error	0.223469
Mean of Response	1.601637
Observations (or Sum Wgts)	50

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB066**

**Oneway Anova**

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	9	9.138173	1.01535	20.3321	<.0001*
Error	40	1.997535	0.04994		
C. Total	49	11.135709			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.69546	0.09994	1.4935	1.8974
BIMW-COMP-T-M	5	1.39024	0.09994	1.1883	1.5922
BIN-COMP-T	5	1.39580	0.09994	1.1938	1.5978
LA3-REF	5	0.73638	0.09994	0.5344	0.9384
MCN1-COMP-T	5	1.91918	0.09994	1.7172	2.1212
MCN2-COMP-T	5	1.83920	0.09994	1.6372	2.0412
MCN3-COMP	5	1.73195	0.09994	1.5300	1.9339
MCN4-COMP	5	1.74119	0.09994	1.5392	1.9432
MCN5-COMP	5	1.18214	0.09994	0.9802	1.3841
TB	5	2.38483	0.09994	2.1828	2.5868

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.69546	0.100106	0.04477	1.5712	1.8198
BIMW-COMP-T-M	5	1.39024	0.374445	0.16746	0.9253	1.8552
BIN-COMP-T	5	1.39580	0.291588	0.13040	1.0337	1.7578
LA3-REF	5	0.73638	0.131109	0.05863	0.5736	0.8992
MCN1-COMP-T	5	1.91918	0.188966	0.08451	1.6846	2.1538
MCN2-COMP-T	5	1.83920	0.094827	0.04241	1.7215	1.9569
MCN3-COMP	5	1.73195	0.157422	0.07040	1.5365	1.9274
MCN4-COMP	5	1.74119	0.241722	0.10810	1.4411	2.0413
MCN5-COMP	5	1.18214	0.340673	0.15235	0.7591	1.6051
TB	5	2.38483	0.054510	0.02438	2.3171	2.4525

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB066**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	1.251	<.0001*
MCN1-COMP-T	0.785	<.0001*
MCN2-COMP-T	0.705	<.0001*
MCN4-COMP	0.607	<.0001*
MCN3-COMP	0.598	<.0001*
BIME-COMP-T-M	0.562	<.0001*
BIN-COMP-T	0.262	0.0003*
BIMW-COMP-T-M	0.256	0.0003*
MCN5-COMP	0.048	0.0215*
LA3-REF	-0.4	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	137.000	127.500	27.4000	0.291
BIMW-COMP-T-M	5	83.000	127.500	16.6000	-1.423
BIN-COMP-T	5	79.000	127.500	15.8000	-1.552
LA3-REF	5	22.000	127.500	4.4000	-3.395
MCN1-COMP-T	5	187.000	127.500	37.4000	1.908
MCN2-COMP-T	5	180.000	127.500	36.0000	1.682
MCN3-COMP	5	144.000	127.500	28.8000	0.517
MCN4-COMP	5	155.000	127.500	31.0000	0.873
MCN5-COMP	5	48.000	127.500	9.6000	-2.555
TB	5	240.000	127.500	48.0000	3.622

**1-Way Test, ChiSquare Approximation**

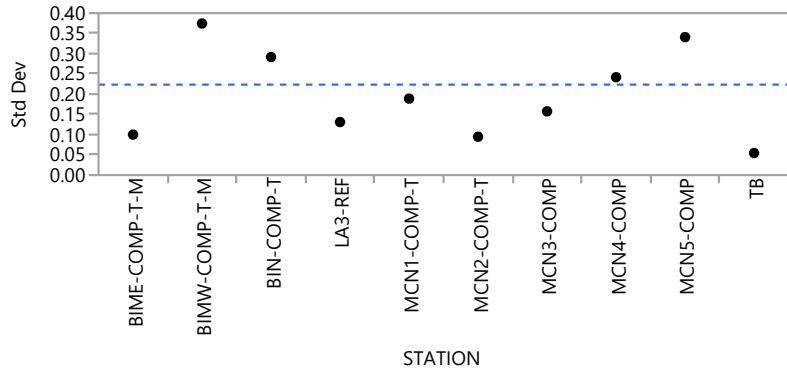
ChiSquare	DF	Prob>ChiSq
39.3925	9	<.0001*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB066**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1001060	0.0773520	0.0756800
BIMW-COMP-T-M	5	0.3744445	0.2657594	0.1885716
BIN-COMP-T	5	0.2915876	0.2038954	0.1650286
LA3-REF	5	0.1311094	0.1018048	0.0937654
MCN1-COMP-T	5	0.1889662	0.1595448	0.1432480
MCN2-COMP-T	5	0.0948270	0.0770576	0.0698860
MCN3-COMP	5	0.1574222	0.1182016	0.0990640
MCN4-COMP	5	0.2417215	0.1983256	0.1775440
MCN5-COMP	5	0.3406730	0.2858115	0.2518036
TB	5	0.0545097	0.0382400	0.0356180

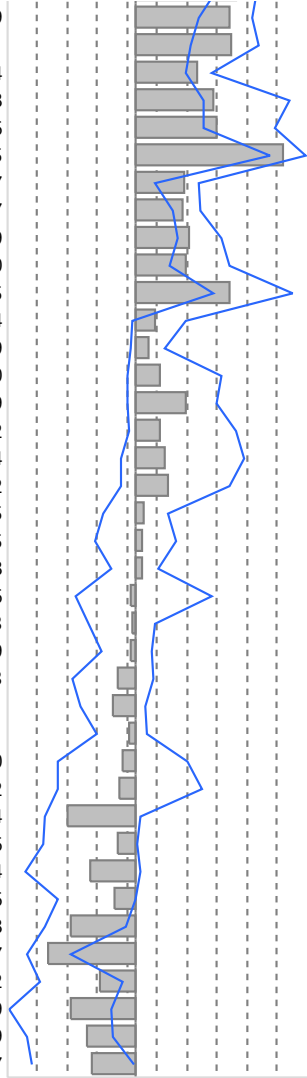
Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	0.9876	9	40	0.4652
Brown-Forsythe	0.6444	9	40	0.7525
Levene	2.7384	9	40	0.0137*
Bartlett	2.3125	9	.	0.0135*

Warning: Small sample sizes. Use Caution.

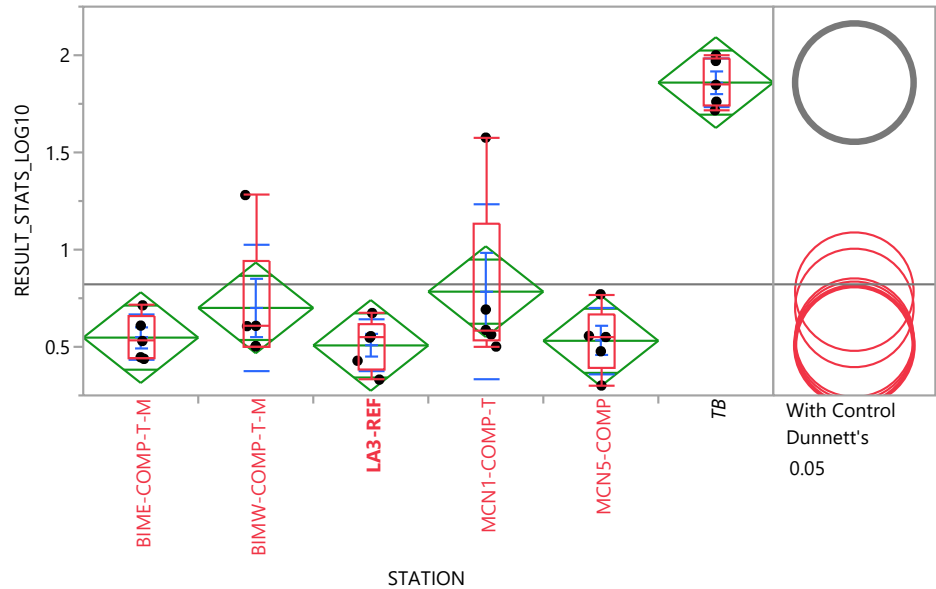
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*	Alpha										
1.95996	0.05	Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
		MCN1-COMP-T	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.44431	0.16542	1.35439	
		MCN1-COMP-T	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.47303	0.16335	1.19417	
		MCN1-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.17714	0.89825	1.51956	
		MCN2-COMP-T	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.34767	0.14579	1.17150	
		MCN2-COMP-T	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.34104	0.14775	1.01128	
		MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.11336	0.87862	1.33667	

Oneway Analysis of RESULT_STATS_LOG10 By STATION CHEM_OUT=PCB066								
Nonparametric Comparisons For Each Pair Using Wilcoxon Method								
Level	- Level	Score Mean				Hodges-		
		Difference	Std Err Dif	Z	p-Value	Lehmann	Lower CL	Upper CL
MCN3-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.04366	0.68545	1.27019
MCN4-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.05552	0.60374	1.35501
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.69100	0.54798	0.83284
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.86675	0.74327	1.69058
TB	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.90207	0.73857	1.53036
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.63729	1.47610	1.85575
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.54149	0.21464	0.69677
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.52288	0.39753	0.71237
TB	MCN3-COMP	4.80000	1.914854	2.50672	0.0122*	0.59590	0.46401	0.94699
TB	MCN4-COMP	4.80000	1.914854	2.50672	0.0122*	0.55284	0.37919	1.02870
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	1.04576	0.84771	1.71745
MCN1-COMP-T	BIME-COMP-T-M	3.60000	1.914854	1.88004	0.0601	0.21776	-0.02987	0.54304
MCN2-COMP-T	BIME-COMP-T-M	3.60000	1.914854	1.88004	0.0601	0.15261	-0.04950	0.32389
MCN3-COMP	BIN-COMP-T	3.60000	1.914854	1.88004	0.0601	0.27456	-0.08687	0.94480
MCN5-COMP	LA3-REF	3.60000	1.914854	1.88004	0.0601	0.55852	-0.08501	0.88649
MCN3-COMP	BIMW-COMP-T-M	3.20000	1.914854	1.67115	0.0947	0.28119	-0.08024	1.10502
MCN4-COMP	BIMW-COMP-T-M	2.80000	1.914854	1.46225	0.1437	0.32269	-0.16195	1.18984
MCN4-COMP	BIN-COMP-T	2.80000	1.914854	1.46225	0.1437	0.35938	-0.16858	1.02962
MCN4-COMP	BIME-COMP-T-M	1.20000	1.914854	0.62668	0.5309	0.10037	-0.35701	0.34465
MCN4-COMP	MCN3-COMP	1.20000	1.914854	0.62668	0.5309	0.08282	-0.44314	0.44625
MCN3-COMP	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.08501	-0.27530	0.24728
BIN-COMP-T	BIMW-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-0.03977	-0.66361	0.83046
MCN4-COMP	MCN2-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.02996	-0.50962	0.21163
MCN2-COMP-T	MCN1-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.05599	-0.37618	0.17769
MCN4-COMP	MCN1-COMP-T	-1.20000	1.914854	-0.62668	0.5309	-0.19839	-0.69251	0.19603
MCN3-COMP	MCN1-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-0.24737	-0.61080	0.11121
MCN3-COMP	MCN2-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-0.06970	-0.42791	0.12681
MCN5-COMP	BIN-COMP-T	-2.80000	1.914854	-1.46225	0.1437	-0.14559	-0.85733	0.56110
MCN5-COMP	BIMW-COMP-T-M	-3.20000	1.914854	-1.67115	0.0947	-0.17070	-0.85070	0.72132
LA3-REF	BIMW-COMP-T-M	-3.60000	1.914854	-1.88004	0.0601	-0.74631	-0.98900	0.05814
BIMW-COMP-T-M	BIME-COMP-T-M	-4.00000	1.914854	-2.08893	0.0367*	-0.18693	-1.01889	0.02196
MCN5-COMP	MCN4-COMP	-4.00000	1.914854	-2.08893	0.0367*	-0.49700	-1.21671	0.05944
BIN-COMP-T	BIME-COMP-T-M	-4.40000	1.914854	-2.29783	0.0216*	-0.22401	-0.85867	-0.00676
LA3-REF	BIN-COMP-T	-4.40000	1.914854	-2.29783	0.0216*	-0.70411	-0.99563	-0.10208
LA3-REF	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.95638	-1.18406	-0.71087
MCN5-COMP	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.38405	-1.04576	-0.13642
MCN5-COMP	MCN1-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-0.70984	-1.38126	-0.27249
MCN5-COMP	MCN2-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-0.52288	-1.19837	-0.25689
MCN5-COMP	MCN3-COMP	-4.80000	1.914854	-2.50672	0.0122*	-0.47546	-1.13189	-0.02227



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB070**



Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.438	0.438	0.442256	0.530057	0.661344	0.713448	0.713448
BIMW-COMP-T-M	0.502029	0.502029	0.503011	0.606499	0.94436	1.28083	1.28083
LA3-REF	0.331519	0.331519	0.379974	0.547427	0.614388	0.673942	0.673942
MCN1-COMP-T	0.501339	0.501339	0.532323	0.586673	1.134014	1.57612	1.57612
MCN5-COMP	0.30103	0.30103	0.389076	0.55055	0.663315	0.770326	0.770326
TB	1.71694	1.71694	1.73903	1.84771	1.985355	2	2

**Oneway Anova**

**Summary of Fit**

Rsquare	0.814915
Adj Rsquare	0.776356
Root Mean Square Error	0.252868
Mean of Response	0.821527
Observations (or Sum Wgts)	30

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	5	6.7567950	1.35136	21.1340	<.0001*
Error	24	1.5346163	0.06394		
C. Total	29	8.2914112			

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB070**

**Oneway Anova**

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.54745	0.11309	0.3141	0.7808
BIMW-COMP-T-M	5	0.70025	0.11309	0.4668	0.9336
LA3-REF	5	0.50723	0.11309	0.2738	0.7406
MCN1-COMP-T	5	0.78387	0.11309	0.5505	1.0173
MCN5-COMP	5	0.53107	0.11309	0.2977	0.7645
TB	5	1.85930	0.11309	1.6259	2.0927

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.54745	0.116021	0.05189	0.4034	0.6915
BIMW-COMP-T-M	5	0.70025	0.328710	0.14700	0.2921	1.1084
LA3-REF	5	0.50723	0.131109	0.05863	0.3444	0.6700
MCN1-COMP-T	5	0.78387	0.448184	0.20043	0.2274	1.3404
MCN5-COMP	5	0.53107	0.168885	0.07553	0.3214	0.7408
TB	5	1.85930	0.124748	0.05579	1.7044	2.0142

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.69532	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	0.921	<.0001*
MCN1-COMP-T	-0.15	0.3126
BIMW-COMP-T-M	-0.24	0.6350
BIME-COMP-T-M	-0.39	0.9992
MCN5-COMP	-0.41	0.9999
LA3-REF	-0.43	1.0000

Positive values show pairs of means that are significantly different.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB070**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

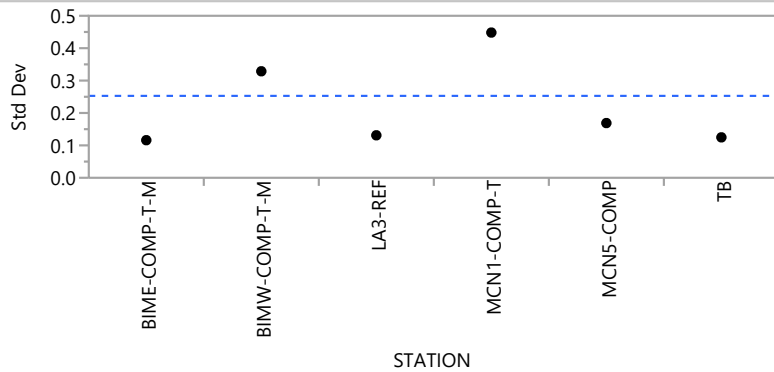
Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	60.000	77.500	12.0000	-0.946
BIMW-COMP-T-M	5	76.000	77.500	15.2000	-0.056
LA3-REF	5	49.000	77.500	9.8000	-1.558
MCN1-COMP-T	5	84.000	77.500	16.8000	0.334
MCN5-COMP	5	56.000	77.500	11.2000	-1.169
TB	5	140.000	77.500	28.0000	3.450

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
14.2748	5	0.0140*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif	
			to Mean	to Median
BIME-COMP-T-M	5	0.1160212	0.0911140	0.0876352
BIMW-COMP-T-M	5	0.3287100	0.2322327	0.1765396
LA3-REF	5	0.1311094	0.1018048	0.0937654
MCN1-COMP-T	5	0.4481840	0.3169002	0.2406764
MCN5-COMP	5	0.1688849	0.1135924	0.1096956
TB	5	0.1247484	0.1008472	0.0985300

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	0.9107	5	24	0.4906
Brown-Forsythe	0.3929	5	24	0.8487
Levene	1.8891	5	24	0.1337
Bartlett	2.4958	5	.	0.0288*

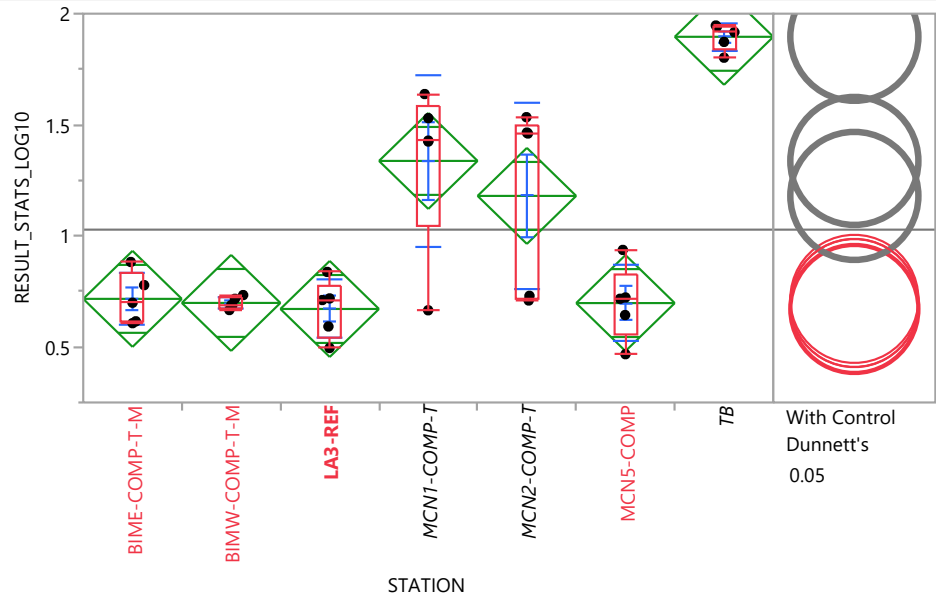
Warning: Small sample sizes. Use Caution.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB070**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

		q*	Alpha						
		1.95996	0.05						
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	1.31461	1.04767	1.553489	
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	1.24121	0.48029	1.496007	
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.33269	1.08718	1.639191	
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	1.21560	0.18500	1.469371	
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	1.29716	0.99079	1.669680	
MCN1-COMP-T	LA3-REF	2.80000	1.914854	1.46225	0.1437	0.13707	-0.11064	1.147691	
MCN1-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.08267	-0.15014	1.129609	
BIMW-COMP-T-M	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.06403	-0.20946	0.834319	
MCN5-COMP	LA3-REF	0.40000	1.914854	0.20889	0.8345	0.00312	-0.25380	0.341897	
MCN1-COMP-T	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.05931	-0.71752	1.072127	
MCN5-COMP	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.02049	-0.30821	0.323815	
LA3-REF	BIME-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.03951	-0.28502	0.227431	
LA3-REF	BIMW-COMP-T-M	-1.60000	1.914854	-0.83557	0.4034	-0.07360	-0.85240	0.169949	
MCN5-COMP	BIMW-COMP-T-M	-1.60000	1.914854	-0.83557	0.4034	-0.05595	-0.80371	0.266333	
MCN5-COMP	MCN1-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-0.10955	-1.09900	0.207019	

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB074**



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB074**

**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.606912	0.606912	0.611168	0.69897	0.830256	0.882361	0.882361
BIMW-COMP-T-M	0.666089	0.666089	0.676119	0.688127	0.724998	0.733371	0.733371
LA3-REF	0.495166	0.495166	0.543621	0.711073	0.778034	0.837588	0.837588
MCN1-COMP-T	0.664985	0.664985	1.044788	1.42861	1.58405	1.63827	1.63827
MCN2-COMP-T	0.70907	0.70907	0.719537	1.46073	1.499525	1.53416	1.53416
MCN5-COMP	0.467361	0.467361	0.555407	0.716882	0.829646	0.936657	0.936657
TB	1.80195	1.80195	1.837485	1.91703	1.943815	1.94675	1.94675

**Oneway Anova**

**Summary of Fit**

Rsquare	0.808285
Adj Rsquare	0.767203
Root Mean Square Error	0.235981
Mean of Response	1.027952
Observations (or Sum Wgts)	35

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	6	6.5738737	1.09565	19.6751	<.0001*
Error	28	1.5592375	0.05569		
C. Total	34	8.1331112			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.71636	0.10553	0.5002	0.9325
BIMW-COMP-T-M	5	0.69807	0.10553	0.4819	0.9142
LA3-REF	5	0.67088	0.10553	0.4547	0.8871
MCN1-COMP-T	5	1.33726	0.10553	1.1211	1.5534
MCN2-COMP-T	5	1.17977	0.10553	0.9636	1.3959
MCN5-COMP	5	0.69740	0.10553	0.4812	0.9136
TB	5	1.89593	0.10553	1.6797	2.1121

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.71636	0.116021	0.05189	0.5723	0.8604
BIMW-COMP-T-M	5	0.69807	0.026712	0.01195	0.6649	0.7312
LA3-REF	5	0.67088	0.131109	0.05863	0.5081	0.8337
MCN1-COMP-T	5	1.33726	0.385881	0.17257	0.8581	1.8164
MCN2-COMP-T	5	1.17977	0.421210	0.18837	0.6568	1.7028
MCN5-COMP	5	0.69740	0.168885	0.07553	0.4877	0.9071
TB	5	1.89593	0.060011	0.02684	1.8214	1.9704

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB074**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.73128	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	0.817	<.0001*
MCN1-COMP-T	0.259	0.0007*
MCN2-COMP-T	0.101	0.0101*
BIME-COMP-T-M	-0.36	0.9994
BIMW-COMP-T-M	-0.38	1.0000
MCN5-COMP	-0.38	1.0000
LA3-REF	-0.41	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	62.000	90.000	12.4000	-1.296
BIMW-COMP-T-M	5	60.000	90.000	12.0000	-1.391
LA3-REF	5	55.000	90.000	11.0000	-1.626
MCN1-COMP-T	5	114.000	90.000	22.8000	1.108
MCN2-COMP-T	5	112.000	90.000	22.4000	1.014
MCN5-COMP	5	62.000	90.000	12.4000	-1.296
TB	5	165.000	90.000	33.0000	3.512

**1-Way Test, ChiSquare Approximation**

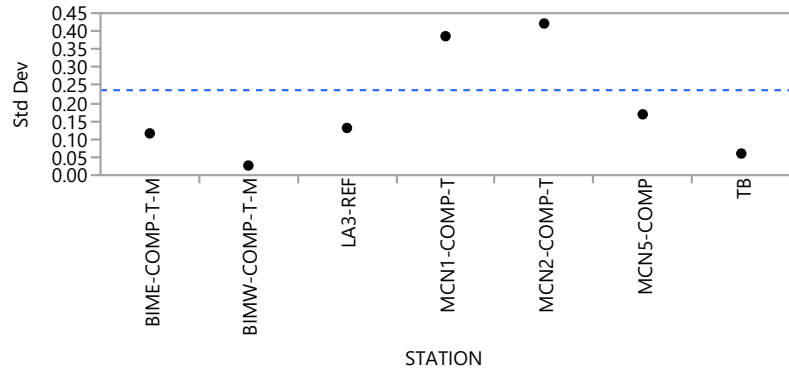
ChiSquare	DF	Prob>ChiSq
19.7676	6	0.0030*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB074**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1160213	0.0911139	0.0876352
BIMW-COMP-T-M	5	0.0267124	0.0215406	0.0195516
LA3-REF	5	0.1311089	0.1018043	0.0937650
MCN1-COMP-T	5	0.3858806	0.2689088	0.2157050
MCN2-COMP-T	5	0.4212102	0.3681870	0.3119952
MCN5-COMP	5	0.1688849	0.1135923	0.1096954
TB	5	0.0600114	0.0467528	0.0425320

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	2.2011	6	28	0.0728
Brown-Forsythe	1.3075	6	28	0.2864
Levene	6.4101	6	28	0.0002*
Bartlett	5.0022	6	.	<.0001*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

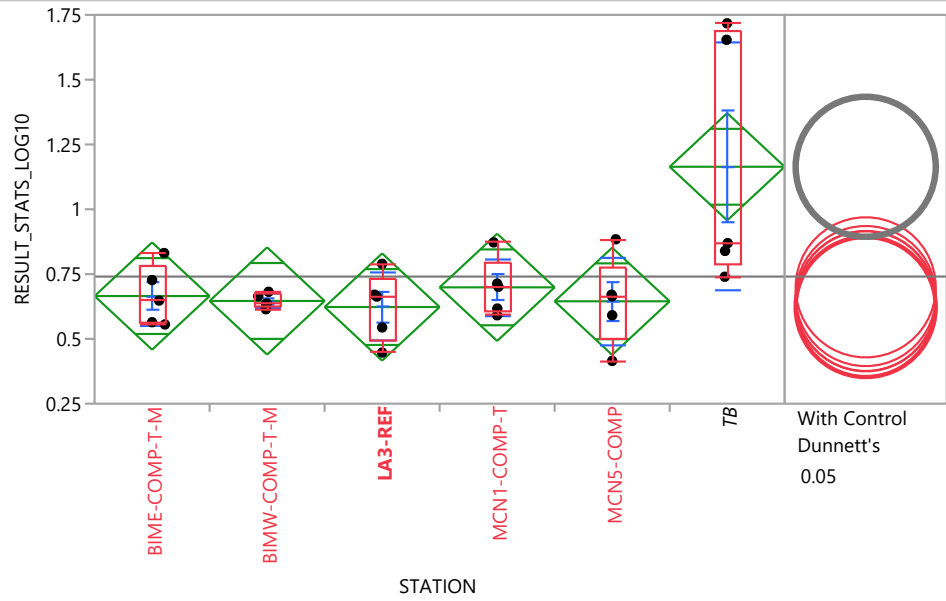
q*		Alpha									
1.95996		0.05									
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL			
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	1.18653	0.99066	1.333968			
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	1.20751	1.08533	1.274791			
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.22240	1.03543	1.445714			
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.44441	0.23475	1.275895			
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.48015	0.33706	1.231810			
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	1.21825	0.93636	1.473519			
MCN1-COMP-T	BIME-COMP-T-M	3.60000	1.914854	1.88004	0.0601	0.75168	-0.11317	1.022846			
MCN1-COMP-T	LA3-REF	3.60000	1.914854	1.88004	0.0601	0.80068	-0.05349	1.046194			
MCN2-COMP-T	BIMW-COMP-T-M	3.60000	1.914854	1.88004	0.0601	0.74411	-0.00755	0.848011			

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB074**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
MCN2-COMP-T	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	0.65180	-0.15236	0.918736
MCN2-COMP-T	LA3-REF	3.20000	1.914854	1.67115	0.0947	0.69657	-0.10758	0.969724
MCN1-COMP-T	BIMW-COMP-T-M	2.80000	1.914854	1.46225	0.1437	0.74246	-0.05164	0.952121
MCN5-COMP	LA3-REF	0.40000	1.914854	0.20889	0.8345	0.00581	-0.25112	0.344581
BIMW-COMP-T-M	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.01084	-0.19621	0.117947
LA3-REF	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.00555	-0.22146	0.151439
MCN2-COMP-T	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	-0.06494	-0.90827	0.799905
MCN5-COMP	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.01791	-0.31079	0.321233
MCN5-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.00026	-0.24926	0.250508
LA3-REF	BIME-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.04477	-0.29028	0.222164
MCN5-COMP	MCN2-COMP-T	-3.20000	1.914854	-1.67115	0.0947	-0.59750	-0.99753	0.206653
MCN5-COMP	MCN1-COMP-T	-3.60000	1.914854	-1.88004	0.0601	-0.71173	-1.06247	0.057649

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB077**



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB077**

Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.55576	0.55576	0.560016	0.647817	0.779104	0.831208	0.831208
BIMW-COMP-T-M	0.614326	0.614326	0.624356	0.636364	0.673235	0.681608	0.681608
LA3-REF	0.447158	0.447158	0.495613	0.663066	0.730026	0.789581	0.789581
MCN1-COMP-T	0.590924	0.590924	0.603951	0.700854	0.792645	0.87225	0.87225
MCN5-COMP	0.414973	0.414973	0.503019	0.664494	0.777258	0.884269	0.884269
TB	0.739806	0.739806	0.789614	0.869457	1.68567	1.71745	1.71745

**Oneway Anova**

**Summary of Fit**

Rsquare	0.475306
Adj Rsquare	0.365995
Root Mean Square Error	0.224213
Mean of Response	0.740369
Observations (or Sum Wgts)	30

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	5	1.0929511	0.218590	4.3482	0.0059*
Error	24	1.2065157	0.050271		
C. Total	29	2.2994668			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.66521	0.10027	0.45826	0.8722
BIMW-COMP-T-M	5	0.64631	0.10027	0.43936	0.8533
LA3-REF	5	0.62287	0.10027	0.41592	0.8298
MCN1-COMP-T	5	0.69881	0.10027	0.49186	0.9058
MCN5-COMP	5	0.64501	0.10027	0.43806	0.8520
TB	5	1.16400	0.10027	0.95706	1.3710

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.66521	0.116021	0.05189	0.52115	0.8093
BIMW-COMP-T-M	5	0.64631	0.026712	0.01195	0.61314	0.6795
LA3-REF	5	0.62287	0.131109	0.05863	0.46008	0.7857
MCN1-COMP-T	5	0.69881	0.110254	0.04931	0.56191	0.8357
MCN5-COMP	5	0.64501	0.168885	0.07553	0.43531	0.8547
TB	5	1.16400	0.479152	0.21428	0.56906	1.7590

**Means Comparisons**

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB077**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.69532	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	0.159	0.0037*
MCN1-COMP-T	-0.31	0.9756
BIME-COMP-T-M	-0.34	0.9982
BIMW-COMP-T-M	-0.36	0.9999
MCN5-COMP	-0.36	0.9999
LA3-REF	-0.38	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	66.000	77.500	13.2000	-0.612
BIMW-COMP-T-M	5	62.000	77.500	12.4000	-0.835
LA3-REF	5	58.000	77.500	11.6000	-1.057
MCN1-COMP-T	5	81.000	77.500	16.2000	0.167
MCN5-COMP	5	66.000	77.500	13.2000	-0.612
TB	5	132.000	77.500	26.4000	3.005

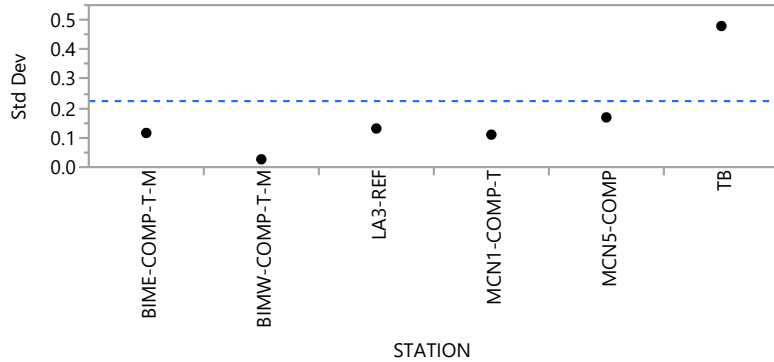
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
9.9806	5	0.0758

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB077**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1160212	0.0911140	0.0876352
BIMW-COMP-T-M	5	0.0267124	0.0215406	0.0195516
LA3-REF	5	0.1311093	0.1018046	0.0937652
MCN1-COMP-T	5	0.1102542	0.0758866	0.0754776
MCN5-COMP	5	0.1688849	0.1135923	0.1096954
TB	5	0.4791521	0.4173322	0.3584226

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	11.2479	5	24	<.0001*
Brown-Forsythe	2.0259	5	24	0.1110
Levene	16.2825	5	24	<.0001*
Bartlett	5.1864	5	.	<.0001*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*	Alpha
1.95996	0.05

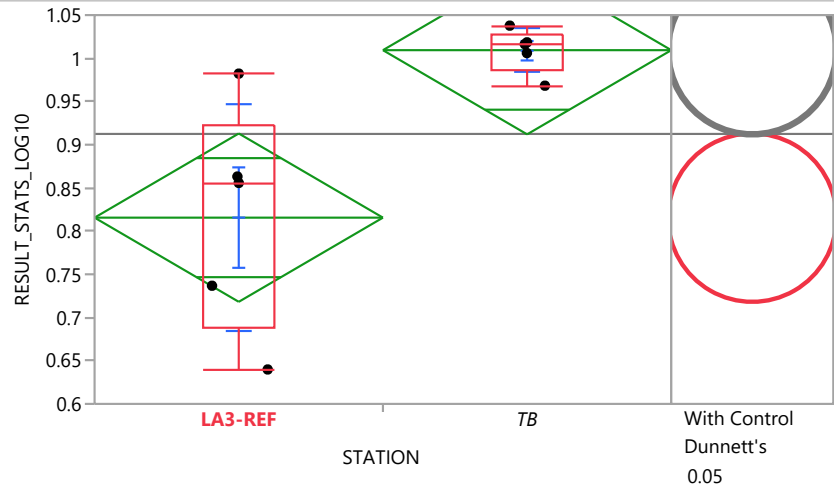
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.233093	0.074944	1.083064
TB	BIME-COMP-T-M	4.40000	1.914854	2.29783	0.0216*	0.283661	0.008213	1.153179
TB	LA3-REF	4.40000	1.914854	2.29783	0.0216*	0.325389	0.049840	1.206732
TB	MCN1-COMP-T	3.60000	1.914854	1.88004	0.0601	0.248497	-0.032829	1.100472
TB	MCN5-COMP	3.60000	1.914854	1.88004	0.0601	0.324833	-0.044848	1.238917
MCN1-COMP-T	LA3-REF	1.60000	1.914854	0.83557	0.4034	0.049974	-0.172603	0.328182
MCN1-COMP-T	BIMW-COMP-T-M	1.20000	1.914854	0.62668	0.5309	0.035992	-0.073938	0.237864
MCN1-COMP-T	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.041042	-0.214230	0.307979
BIMW-COMP-T-M	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.011453	-0.196822	0.117337
LA3-REF	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.001796	-0.217704	0.155195

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB077**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
MCN5-COMP	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.016677	-0.312026	0.319998	
MCN5-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.000368	-0.249889	0.249883	
MCN5-COMP	LA3-REF	0.00000	1.914854	0.00000	1.0000	0.001428	-0.255498	0.340201	
LA3-REF	BIME-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.041627	-0.287140	0.225310	
MCN5-COMP	MCN1-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.036360	-0.298067	0.267291	

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB081**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
LA3-REF	0.639849	0.639849	0.688304	0.855756	0.922717	0.982271	0.982271
TB	0.968286	0.968286	0.987178	1.01639	1.028135	1.03779	1.03779

**Oneway Anova**

**Summary of Fit**

Rsquare	0.568169
Adj Rsquare	0.514191
Root Mean Square Error	0.09447
Mean of Response	0.912481
Observations (or Sum Wgts)	10

**t Test**

TB-LA3-REF

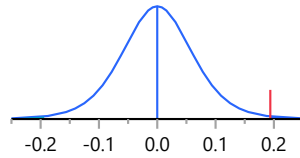
**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB081**

**Oneway Anova**

**t Test**

Assuming equal variances

Difference	0.193844	t Ratio	3.244346
Std Err Dif	0.059748	DF	8
Upper CL Dif	0.331623	Prob >  t	0.0118*
Lower CL Dif	0.056064	Prob > t	0.0059*
Confidence	0.95	Prob < t	0.9941



**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	1	0.09393855	0.093939	10.5258	0.0118*
Error	8	0.07139693	0.008925		
C. Total	9	0.16533547			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
LA3-REF	5	0.81556	0.04225	0.71813	0.9130
TB	5	1.00940	0.04225	0.91198	1.1068

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

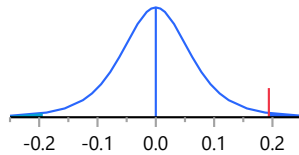
Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
LA3-REF	5	0.81556	0.131109	0.05863	0.65277	0.9784
TB	5	1.00940	0.025684	0.01149	0.97751	1.0413

**t Test**

TB-LA3-REF

Assuming unequal variances

Difference	0.193844	t Ratio	3.244346
Std Err Dif	0.059748	DF	4.306566
Upper CL Dif	0.355176	Prob >  t	0.0283*
Lower CL Dif	0.032511	Prob > t	0.0142*
Confidence	0.95	Prob < t	0.9858



**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.30600	0.05

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB081**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	0.056	0.0118*
LA3-REF	-0.14	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
LA3-REF	5	16.000	27.500	3.20000	-2.298
TB	5	39.000	27.500	7.80000	2.298

**2-Sample Test, Normal Approximation**

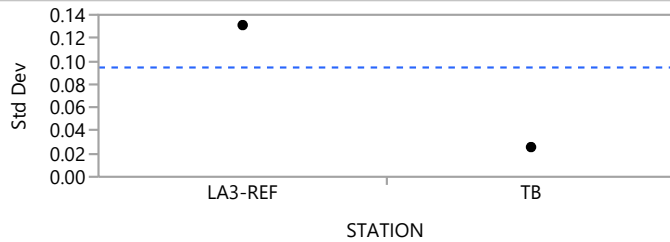
S	Z	Prob> Z
39	2.29783	0.0216*

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
5.7709	1	0.0163*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif	
			to Mean	to Median
LA3-REF	5	0.1311089	0.1018043	0.0937650
TB	5	0.0256844	0.0177802	0.0163828



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB081**

**Tests that the Variances are Equal**

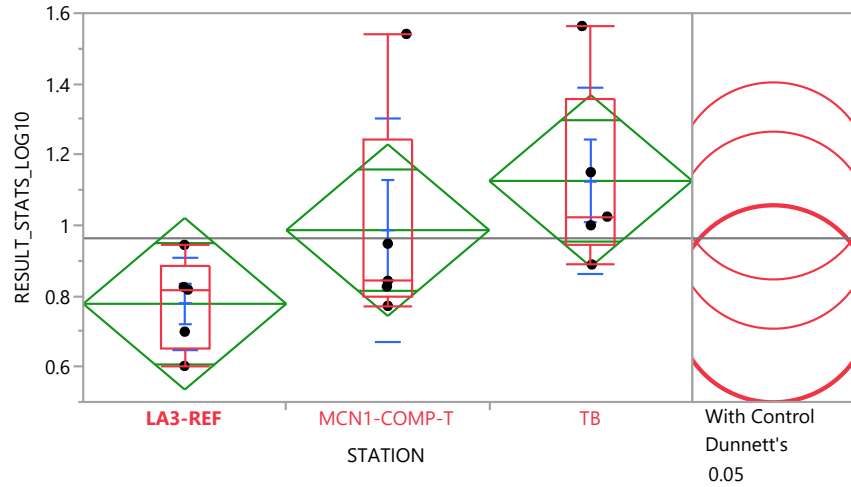
Test	F Ratio	DFNum	DFDen	p-Value
O'Brien[.5]	3.1013	1	8	0.1163
Brown-Forsythe	3.4795	1	8	0.0991
Levene	7.8464	1	8	0.0232*
Bartlett	6.9309	1	.	0.0085*
F Test 2-sided	26.0571	4	4	0.0080*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*		Alpha						
1.95996		0.05						
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	LA3-REF	4.400000	1.914854	2.297825	0.0216*	0.1627240	0.0237990	0.3786310

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB087**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
LA3-REF	0.60206	0.60206	0.650515	0.817968	0.884928	0.944483	0.944483
MCN1-COMP-T	0.77188	0.77188	0.799215	0.842736	1.244666	1.54136	1.54136
TB	0.889104	0.889104	0.944552	1.02436	1.356935	1.56371	1.56371

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB087**

**Oneway Anova**

**Summary of Fit**

Rsquare	0.291303
Adj Rsquare	0.173187
Root Mean Square Error	0.249153
Mean of Response	0.963112
Observations (or Sum Wgts)	15

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	2	0.3061943	0.153097	2.4662	0.1267
Error	12	0.7449248	0.062077		
C. Total	14	1.0511190			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
LA3-REF	5	0.77777	0.11142	0.53500	1.0205
MCN1-COMP-T	5	0.98610	0.11142	0.74333	1.2289
TB	5	1.12547	0.11142	0.88269	1.3682

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
LA3-REF	5	0.77777	0.131109	0.05863	0.61498	0.9406
MCN1-COMP-T	5	0.98610	0.316886	0.14172	0.59263	1.3796
TB	5	1.12547	0.261963	0.11715	0.80020	1.4507

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.50237	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	-0.05	0.0842
MCN1-COMP-T	-0.19	0.3440
LA3-REF	-0.39	1.0000

Positive values show pairs of means that are significantly different.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB087**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

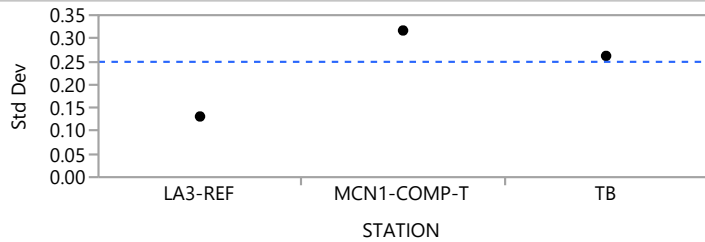
Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
LA3-REF	5	21.000	40.000	4.2000	-2.266
MCN1-COMP-T	5	40.000	40.000	8.0000	0.000
TB	5	59.000	40.000	11.8000	2.266

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
7.2200	2	0.0271*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
LA3-REF	5	0.1311093	0.1018046	0.0937652
MCN1-COMP-T	5	0.3168862	0.2221043	0.1781804
TB	5	0.2619631	0.1851746	0.1649532

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	0.5404	2	12	0.5961
Brown-Forsythe	0.2177	2	12	0.8075
Levene	0.8286	2	12	0.4602
Bartlett	1.2651	2	.	0.2822

Warning: Small sample sizes. Use Caution.

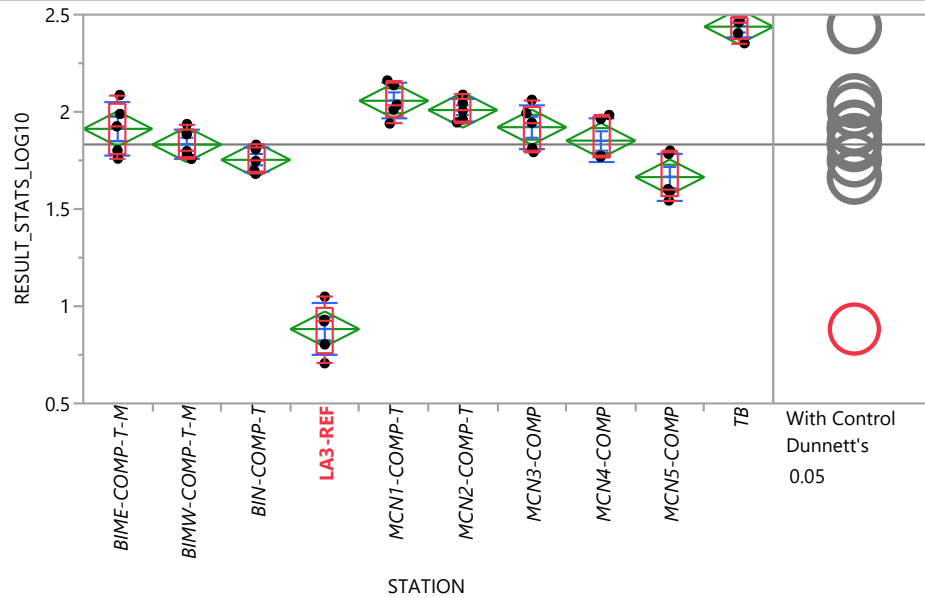
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	LA3-REF	4.400000	1.914854	2.297825	0.0216*	0.3010300	0.055517	0.8647400
MCN1-COMP-T	LA3-REF	2.800000	1.914854	1.462252	0.1437	0.1275790	-0.117934	0.8423900
TB	MCN1-COMP-T	2.800000	1.914854	1.462252	0.1437	0.1734510	-0.541360	0.7371610



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB095**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	1.75967	1.75967	1.78065	1.92567	2.03781	2.08648	2.08648
BIMW-COMP-T-M	1.75795	1.75795	1.769555	1.79772	1.91091	1.93695	1.93695
BIN-COMP-T	1.68124	1.68124	1.690105	1.74689	1.819325	1.83054	1.83054
LA3-REF	0.706795	0.706795	0.75525	0.922703	0.989665	1.04922	1.04922
MCN1-COMP-T	1.94	1.94	1.97543	2.03558	2.14909	2.16115	2.16115
MCN2-COMP-T	1.94564	1.94564	1.953195	2.00599	2.066715	2.08767	2.08767
MCN3-COMP	1.79313	1.79313	1.80302	1.94414	2.027345	2.06175	2.06175
MCN4-COMP	1.76955	1.76955	1.76955	1.77307	1.97385	1.98391	1.98391
MCN5-COMP	1.54407	1.54407	1.567565	1.60206	1.79186	1.80043	1.80043
TB	2.35286	2.35286	2.378435	2.46009	2.48673	2.49009	2.49009

**Oneway Anova**

**Summary of Fit**

Rsquare	0.945733
Adj Rsquare	0.933522
Root Mean Square Error	0.10021
Mean of Response	1.83212
Observations (or Sum Wgts)	50

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB095**

**Oneway Anova**

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	9	7.0001585	0.777795	77.4544	<.0001*
Error	40	0.4016790	0.010042		
C. Total	49	7.4018375			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.91252	0.04482	1.8219	2.0031
BIMW-COMP-T-M	5	1.83173	0.04482	1.7412	1.9223
BIN-COMP-T	5	1.75315	0.04482	1.6626	1.8437
LA3-REF	5	0.88251	0.04482	0.7919	0.9731
MCN1-COMP-T	5	2.05692	0.04482	1.9663	2.1475
MCN2-COMP-T	5	2.00916	0.04482	1.9186	2.0997
MCN3-COMP	5	1.92097	0.04482	1.8304	2.0115
MCN4-COMP	5	1.85197	0.04482	1.7614	1.9425
MCN5-COMP	5	1.66418	0.04482	1.5736	1.7548
TB	5	2.43808	0.04482	2.3475	2.5287

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.91252	0.134132	0.05999	1.7460	2.0791
BIMW-COMP-T-M	5	1.83173	0.075915	0.03395	1.7375	1.9260
BIN-COMP-T	5	1.75315	0.065490	0.02929	1.6718	1.8345
LA3-REF	5	0.88251	0.131110	0.05863	0.7197	1.0453
MCN1-COMP-T	5	2.05692	0.091554	0.04094	1.9432	2.1706
MCN2-COMP-T	5	2.00916	0.058932	0.02636	1.9360	2.0823
MCN3-COMP	5	1.92097	0.115710	0.05175	1.7773	2.0646
MCN4-COMP	5	1.85197	0.111493	0.04986	1.7135	1.9904
MCN5-COMP	5	1.66418	0.118726	0.05310	1.5168	1.8116
TB	5	2.43808	0.058446	0.02614	2.3655	2.5107

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB095**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	1.377	<.0001*
MCN1-COMP-T	0.996	<.0001*
MCN2-COMP-T	0.948	<.0001*
MCN3-COMP	0.86	<.0001*
BIME-COMP-T-M	0.852	<.0001*
MCN4-COMP	0.791	<.0001*
BIMW-COMP-T-M	0.771	<.0001*
BIN-COMP-T	0.692	<.0001*
MCN5-COMP	0.603	<.0001*
LA3-REF	-0.18	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	139.000	127.500	27.8000	0.356
BIMW-COMP-T-M	5	103.000	127.500	20.6000	-0.776
BIN-COMP-T	5	78.000	127.500	15.6000	-1.585
LA3-REF	5	15.000	127.500	3.0000	-3.622
MCN1-COMP-T	5	195.000	127.500	39.0000	2.167
MCN2-COMP-T	5	183.000	127.500	36.6000	1.779
MCN3-COMP	5	150.000	127.500	30.0000	0.711
MCN4-COMP	5	112.000	127.500	22.4000	-0.485
MCN5-COMP	5	60.000	127.500	12.0000	-2.167
TB	5	240.000	127.500	48.0000	3.622

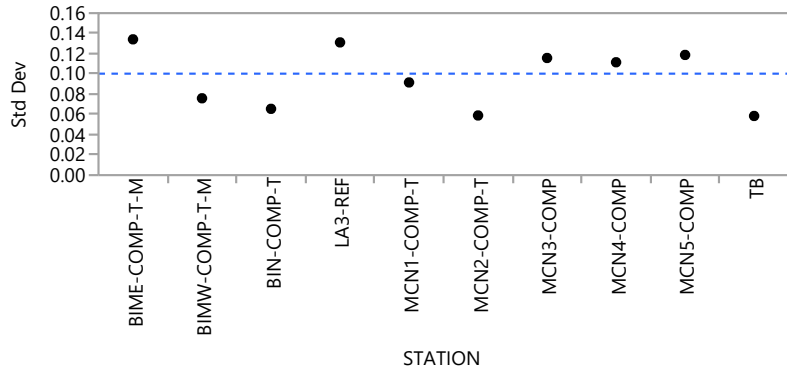
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
38.9990	9	<.0001*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB095**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1341318	0.1054944	0.1028640
BIMW-COMP-T-M	5	0.0759154	0.0633440	0.0565420
BIN-COMP-T	5	0.0654895	0.0529400	0.0516880
LA3-REF	5	0.1311100	0.1018051	0.0937658
MCN1-COMP-T	5	0.0915542	0.0737328	0.0694640
MCN2-COMP-T	5	0.0589316	0.0460424	0.0454080
MCN3-COMP	5	0.1157104	0.0943632	0.0897300
MCN4-COMP	5	0.1114935	0.0975008	0.0817200
MCN5-COMP	5	0.1187256	0.1021424	0.0897180
TB	5	0.0584463	0.0477192	0.0433180

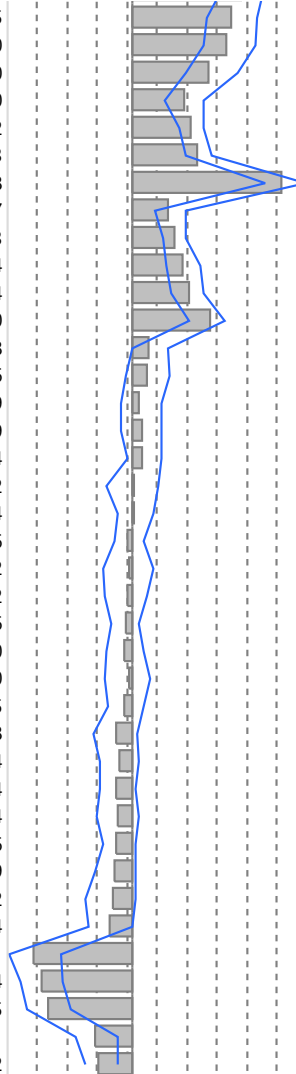
Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.3681	9	40	0.2348
Brown-Forsythe	0.5056	9	40	0.8616
Levene	1.7812	9	40	0.1025
Bartlett	0.7190	9	.	0.6920

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

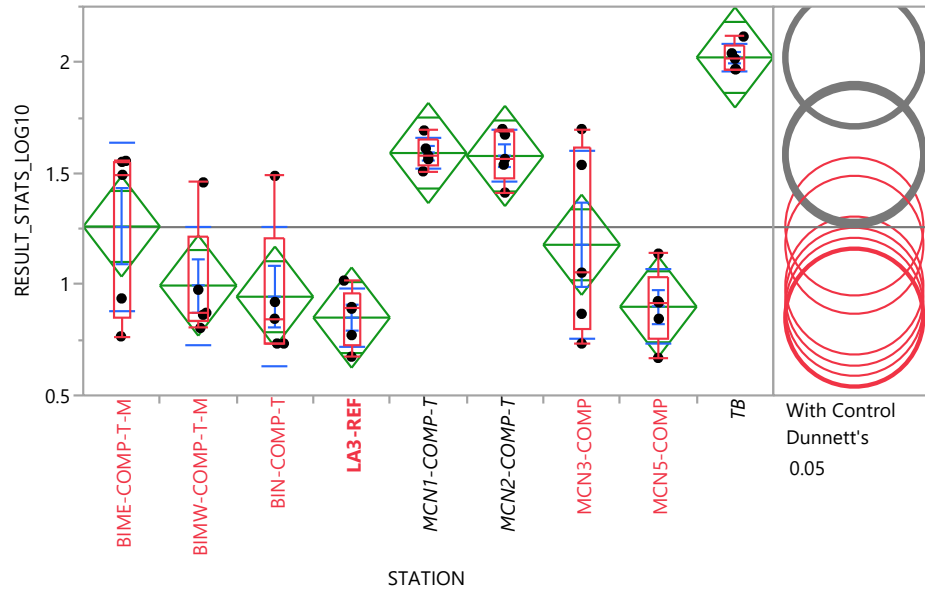
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
MCN1-COMP-T	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.22970	0.05513	0.37999
MCN1-COMP-T	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.31189	0.13189	0.46218
MCN1-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.20692	0.96164	1.43024
MCN2-COMP-T	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.17959	0.02380	0.30651
MCN2-COMP-T	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.25910	0.13021	0.38870
MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.12306	0.91153	1.33897

Oneway Analysis of RESULT_STATS_LOG10 By STATION CHEM_OUT=PCB095								
Nonparametric Comparisons For Each Pair Using Wilcoxon Method								
Level	- Level	Score Mean	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
MCN3-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.02144	0.76369	1.28615
MCN4-COMP	LA3-REF	4.80000	1.909043	2.51435	0.0119*	0.96585	0.72033	1.25700
MCN5-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.78736	0.54184	1.07650
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.53442	0.31753	0.72370
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.60522	0.46706	0.72542
TB	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.67526	0.54475	0.80213
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.55326	1.35479	1.77658
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.36843	0.21583	0.54337
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.43761	0.30710	0.53773
TB	MCN3-COMP	4.80000	1.914854	2.50672	0.0122*	0.51595	0.34226	0.69024
TB	MCN4-COMP	4.80000	1.909043	2.51435	0.0119*	0.58331	0.38907	0.72054
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	0.80195	0.56957	0.93930
MCN3-COMP	BIN-COMP-T	3.60000	1.914854	1.88004	0.0601	0.16240	-0.01763	0.36278
MCN1-COMP-T	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	0.14789	-0.07562	0.37736
MCN3-COMP	BIMW-COMP-T-M	2.80000	1.914854	1.46225	0.1437	0.05927	-0.12404	0.28059
MCN2-COMP-T	BIME-COMP-T-M	2.40000	1.914854	1.25336	0.2101	0.09853	-0.12573	0.28609
MCN4-COMP	BIN-COMP-T	2.40000	1.909043	1.25717	0.2087	0.08831	-0.06099	0.28494
MCN3-COMP	BIME-COMP-T-M	0.40000	1.914854	0.20889	0.8345	0.01128	-0.27357	0.26012
MCN4-COMP	BIMW-COMP-T-M	0.00000	1.909043	0.00000	1.0000	0.01160	-0.16740	0.20584
MCN2-COMP-T	MCN1-COMP-T	-1.20000	1.914854	-0.62668	0.5309	-0.05011	-0.20040	0.10576
MCN4-COMP	BIME-COMP-T-M	-1.20000	1.909043	-0.62859	0.5296	-0.03208	-0.31693	0.20412
BIMW-COMP-T-M	BIME-COMP-T-M	-2.00000	1.914854	-1.04447	0.2963	-0.05219	-0.30532	0.13532
BIN-COMP-T	BIMW-COMP-T-M	-2.40000	1.914854	-1.25336	0.2101	-0.07676	-0.23798	0.05016
MCN3-COMP	MCN2-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-0.09473	-0.27476	0.10100
MCN4-COMP	MCN3-COMP	-2.40000	1.909043	-1.25717	0.2087	-0.04336	-0.29220	0.17100
MCN5-COMP	BIN-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-0.09691	-0.26404	0.10205
MCN5-COMP	MCN4-COMP	-2.40000	1.909043	-1.25717	0.2087	-0.18050	-0.41972	0.03088
MCN3-COMP	MCN1-COMP-T	-2.80000	1.914854	-1.46225	0.1437	-0.14409	-0.34824	0.05294
MCN5-COMP	BIMW-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-0.17910	-0.34589	0.02534
BIN-COMP-T	BIME-COMP-T-M	-3.20000	1.914854	-1.67115	0.0947	-0.15860	-0.38751	0.04844
MCN4-COMP	MCN2-COMP-T	-3.20000	1.909043	-1.67623	0.0937	-0.17609	-0.31812	0.02316
MCN4-COMP	MCN1-COMP-T	-4.00000	1.909043	-2.09529	0.0361*	-0.19736	-0.39160	0.02379
MCN5-COMP	BIME-COMP-T-M	-4.00000	1.914854	-2.08893	0.0367*	-0.21560	-0.49542	0.02362
MCN5-COMP	MCN3-COMP	-4.40000	1.914854	-2.29783	0.0216*	-0.24906	-0.47069	-0.00984
LA3-REF	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-1.03726	-1.28278	-0.75241
LA3-REF	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.95476	-1.17808	-0.73194
LA3-REF	BIN-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-0.87800	-1.10132	-0.64975
MCN5-COMP	MCN1-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-0.39593	-0.59296	-0.15671
MCN5-COMP	MCN2-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-0.35869	-0.50169	-0.16032





**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB097**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.765917	0.765917	0.851265	1.49292	1.553565	1.55576	1.55576
BIMW-COMP-T-M	0.803705	0.803705	0.833266	0.87197	1.217383	1.4589	1.4589
BIN-COMP-T	0.733732	0.733732	0.733732	0.845098	1.20447	1.48812	1.48812
LA3-REF	0.674611	0.674611	0.723066	0.890518	0.957477	1.01703	1.01703
MCN1-COMP-T	1.50864	1.50864	1.535975	1.57949	1.651965	1.69263	1.69263
MCN2-COMP-T	1.413	1.413	1.475835	1.56427	1.68656	1.69897	1.69897
MCN3-COMP	0.733732	0.733732	0.800553	1.05271	1.618285	1.69897	1.69897
MCN5-COMP	0.669007	0.669007	0.757053	0.918527	1.03129	1.1383	1.1383
TB	1.96829	1.96829	1.96829	2.01551	2.07763	2.11539	2.11539

**Oneway Anova**

**Summary of Fit**

Rsquare	0.739023
Adj Rsquare	0.681029
Root Mean Square Error	0.249117
Mean of Response	1.257474
Observations (or Sum Wgts)	45

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB097**

**Oneway Anova**

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	8	6.3265393	0.790817	12.7429	<.0001*
Error	36	2.2341363	0.062059		
C. Total	44	8.5606756			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.26052	0.11141	1.0346	1.4865
BIMW-COMP-T-M	5	0.99465	0.11141	0.7687	1.2206
BIN-COMP-T	5	0.94430	0.11141	0.7184	1.1702
LA3-REF	5	0.85032	0.11141	0.6244	1.0763
MCN1-COMP-T	5	1.59107	0.11141	1.3651	1.8170
MCN2-COMP-T	5	1.57781	0.11141	1.3519	1.8038
MCN3-COMP	5	1.17808	0.11141	0.9521	1.4040
MCN5-COMP	5	0.89904	0.11141	0.6731	1.1250
TB	5	2.02147	0.11141	1.7955	2.2474

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.26052	0.379249	0.16961	0.7896	1.7314
BIMW-COMP-T-M	5	0.99465	0.266819	0.11932	0.6634	1.3260
BIN-COMP-T	5	0.94430	0.314170	0.14050	0.5542	1.3344
LA3-REF	5	0.85032	0.131108	0.05863	0.6875	1.0131
MCN1-COMP-T	5	1.59107	0.067866	0.03035	1.5068	1.6753
MCN2-COMP-T	5	1.57781	0.114933	0.05140	1.4351	1.7205
MCN3-COMP	5	1.17808	0.421391	0.18845	0.6549	1.7013
MCN5-COMP	5	0.89904	0.168884	0.07553	0.6893	1.1087
TB	5	2.02147	0.060933	0.02725	1.9458	2.0971

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.78823	0.05

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB097**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	0.732	<.0001*
MCN1-COMP-T	0.301	0.0003*
MCN2-COMP-T	0.288	0.0004*
BIME-COMP-T-M	-0.03	0.0761
MCN3-COMP	-0.11	0.2204
BIMW-COMP-T-M	-0.29	0.9202
BIN-COMP-T	-0.35	0.9925
MCN5-COMP	-0.39	0.9999
LA3-REF	-0.44	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	115.000	115.000	23.0000	0.000
BIMW-COMP-T-M	5	77.000	115.000	15.4000	-1.355
BIN-COMP-T	5	60.500	115.000	12.1000	-1.951
LA3-REF	5	59.000	115.000	11.8000	-2.005
MCN1-COMP-T	5	170.000	115.000	34.0000	1.969
MCN2-COMP-T	5	164.500	115.000	32.9000	1.770
MCN3-COMP	5	106.500	115.000	21.3000	-0.289
MCN5-COMP	5	67.500	115.000	13.5000	-1.698
TB	5	215.000	115.000	43.0000	3.594

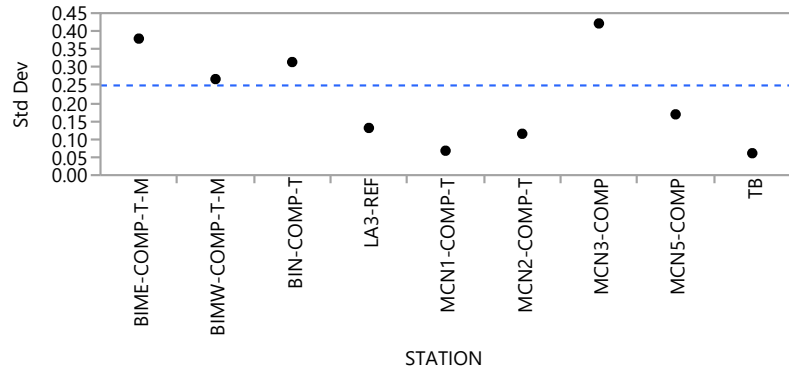
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
29.4095	8	0.0003*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB097**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.3792486	0.3274008	0.2809200
BIMW-COMP-T-M	5	0.2668186	0.1856986	0.1536468
BIN-COMP-T	5	0.3141697	0.2175279	0.1882950
LA3-REF	5	0.1311080	0.1018038	0.0937644
MCN1-COMP-T	5	0.0678659	0.0487128	0.0463960
MCN2-COMP-T	5	0.1149334	0.0869984	0.0842900
MCN3-COMP	5	0.4213912	0.3521662	0.3270928
MCN5-COMP	5	0.1688838	0.1135918	0.1096948
TB	5	0.0609329	0.0449280	0.0437360

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[5]	2.2607	8	36	0.0452*
Brown-Forsythe	1.3670	8	36	0.2439
Levene	4.8042	8	36	0.0004*
Bartlett	2.9894	8	.	0.0024*

Warning: Small sample sizes. Use Caution.

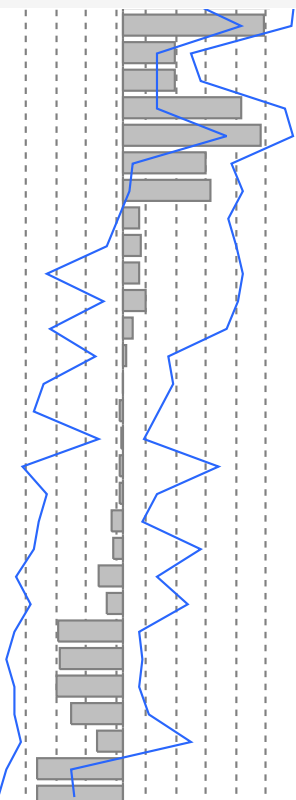
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*		Alpha											
1.95996		0.05											
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL					
MCN1-COMP-T	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.70048	0.10441	0.82980					
MCN1-COMP-T	BIN-COMP-T	4.80000	1.909043	2.51435	0.0119*	0.76620	0.07519	0.95890					
MCN1-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.72078	0.54628	0.93669					
MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.73839	0.51508	0.99954					
TB	BIME-COMP-T-M	4.80000	1.909043	2.51435	0.0119*	0.55963	0.41253	1.27395					
TB	BIMW-COMP-T-M	4.80000	1.909043	2.51435	0.0119*	1.10546	0.50939	1.25256					
TB	BIN-COMP-T	4.80000	1.903214	2.52205	0.0117*	1.19457	0.48017	1.38166					

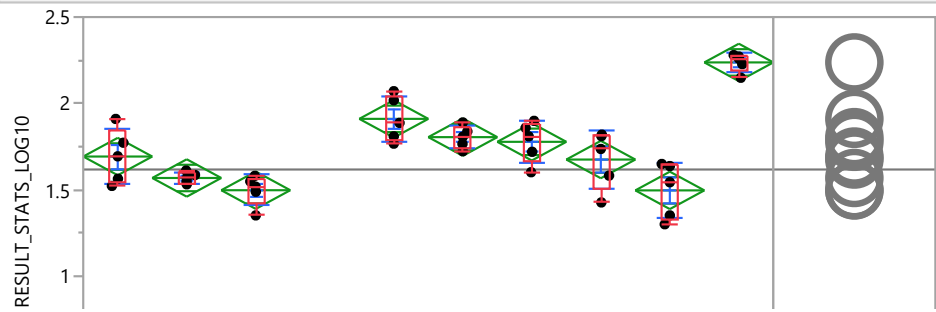
**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB097**

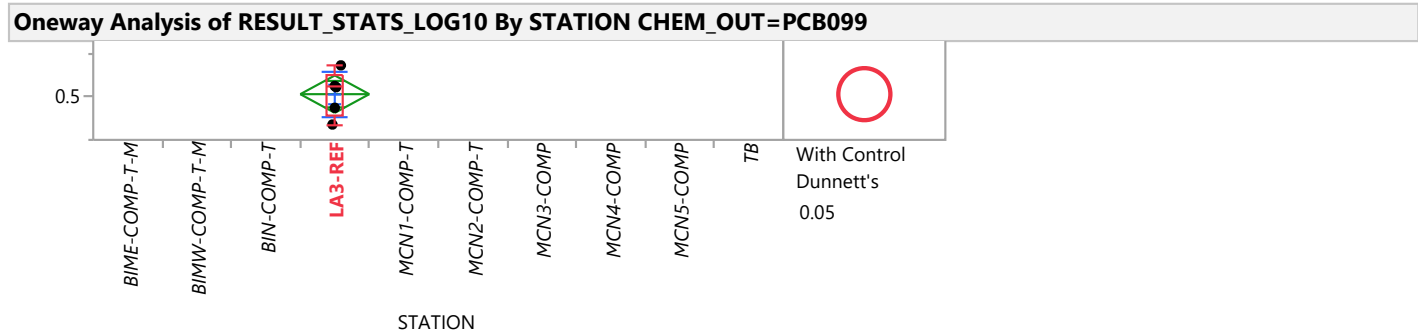
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	LA3-REF	4.80000	1.909043	2.51435	0.0119*	1.14935	0.95126	1.36526
TB	MCN1-COMP-T	4.80000	1.909043	2.51435	0.0119*	0.42857	0.27566	0.55208
TB	MCN2-COMP-T	4.80000	1.909043	2.51435	0.0119*	0.42962	0.26932	0.62687
TB	MCN3-COMP	4.80000	1.909043	2.51435	0.0119*	0.96280	0.26932	1.30614
TB	MCN5-COMP	4.80000	1.909043	2.51435	0.0119*	1.12134	0.82999	1.37086
MCN2-COMP-T	BIMW-COMP-T-M	4.40000	1.914854	2.29783	0.0216*	0.67584	0.07977	0.87045
MCN2-COMP-T	BIN-COMP-T	4.40000	1.909043	2.30482	0.0212*	0.71917	0.05055	0.96524
MCN1-COMP-T	BIME-COMP-T-M	4.00000	1.914854	2.08893	0.0367*	0.13687	-0.04273	0.84538
MCN2-COMP-T	BIME-COMP-T-M	2.80000	1.914854	1.46225	0.1437	0.14760	-0.13837	0.90823
MCN3-COMP	BIN-COMP-T	2.00000	1.891501	1.05736	0.2903	0.13364	-0.62075	0.96524
MCN3-COMP	LA3-REF	2.00000	1.914854	1.04447	0.2963	0.19276	-0.16419	0.92745
MCN3-COMP	BIMW-COMP-T-M	1.20000	1.914854	0.62668	0.5309	0.07870	-0.59153	0.83614
MCN5-COMP	LA3-REF	0.80000	1.914854	0.41779	0.6761	0.02801	-0.22892	0.36678
MCN5-COMP	BIN-COMP-T	0.20000	1.903214	0.10509	0.9163	0.00346	-0.64302	0.40457
LA3-REF	BIN-COMP-T	0.00000	1.909043	0.00000	1.0000	-0.02290	-0.71660	0.28330
MCN2-COMP-T	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	-0.01522	-0.19830	0.16551
MCN3-COMP	BIME-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-0.01816	-0.81764	0.77168
MCN5-COMP	BIMW-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-0.02687	-0.61380	0.27547
LA3-REF	BIMW-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.08535	-0.68738	0.15420
BIN-COMP-T	BIMW-COMP-T-M	-1.20000	1.909043	-0.62859	0.5296	-0.06997	-0.72517	0.62529
MCN5-COMP	MCN3-COMP	-1.60000	1.914854	-0.83557	0.4034	-0.19837	-0.86859	0.27093
BIMW-COMP-T-M	BIME-COMP-T-M	-2.00000	1.914854	-1.04447	0.2963	-0.13291	-0.74767	0.52229
MCN3-COMP	MCN1-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-0.52678	-0.87757	0.13566
MCN3-COMP	MCN2-COMP-T	-2.60000	1.909043	-1.36194	0.1732	-0.51156	-0.94042	0.16030
LA3-REF	BIME-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-0.53873	-0.87676	0.13201
MCN5-COMP	BIME-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-0.41746	-0.88236	0.20169
BIN-COMP-T	BIME-COMP-T-M	-3.20000	1.909043	-1.67623	0.0937	-0.20288	-0.82203	0.55151
MCN5-COMP	MCN1-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-0.68702	-0.94229	-0.42501
MCN5-COMP	MCN2-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-0.69357	-1.00514	-0.40037



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB099**





Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	1.52288	1.52288	1.543575	1.69406	1.841575	1.91039	1.91039
BIMW-COMP-T-M	1.53202	1.53202	1.53888	1.56804	1.598875	1.61182	1.61182
BIN-COMP-T	1.35218	1.35218	1.4206	1.51851	1.56484	1.58087	1.58087
LA3-REF	0.338819	0.338819	0.387274	0.554726	0.621687	0.681241	0.681241
MCN1-COMP-T	1.76743	1.76743	1.78855	1.8877	2.044705	2.07093	2.07093
MCN2-COMP-T	1.72379	1.72379	1.744855	1.80752	1.864095	1.89004	1.89004
MCN3-COMP	1.60206	1.60206	1.66111	1.80967	1.879	1.89933	1.89933
MCN4-COMP	1.42723	1.42723	1.504845	1.73676	1.81524	1.81954	1.81954
MCN5-COMP	1.30103	1.30103	1.326605	1.54407	1.643725	1.64975	1.64975
TB	2.14874	2.14874	2.18833	2.25964	2.275685	2.27963	2.27963

**Oneway Anova**

**Summary of Fit**

Rsquare	0.93968
Adj Rsquare	0.926109
Root Mean Square Error	0.119786
Mean of Response	1.617776
Observations (or Sum Wgts)	50

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	9	8.9411545	0.993462	69.2373	<.0001*
Error	40	0.5739462	0.014349		
C. Total	49	9.5151007			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.69287	0.05357	1.5846	1.8011
BIMW-COMP-T-M	5	1.56871	0.05357	1.4604	1.6770
BIN-COMP-T	5	1.49788	0.05357	1.3896	1.6061
LA3-REF	5	0.51453	0.05357	0.4063	0.6228
MCN1-COMP-T	5	1.91084	0.05357	1.8026	2.0191

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB099**

**Oneway Anova**

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
MCN2-COMP-T	5	1.80508	0.05357	1.6968	1.9134
MCN3-COMP	5	1.77798	0.05357	1.6697	1.8862
MCN4-COMP	5	1.67539	0.05357	1.5671	1.7837
MCN5-COMP	5	1.49695	0.05357	1.3887	1.6052
TB	5	2.23753	0.05357	2.1293	2.3458

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.69287	0.157427	0.07040	1.4974	1.8883
BIMW-COMP-T-M	5	1.56871	0.031738	0.01419	1.5293	1.6081
BIN-COMP-T	5	1.49788	0.088337	0.03951	1.3882	1.6076
LA3-REF	5	0.51453	0.131109	0.05863	0.3517	0.6773
MCN1-COMP-T	5	1.91084	0.130913	0.05855	1.7483	2.0734
MCN2-COMP-T	5	1.80508	0.064147	0.02869	1.7254	1.8847
MCN3-COMP	5	1.77798	0.118882	0.05317	1.6304	1.9256
MCN4-COMP	5	1.67539	0.168180	0.07521	1.4666	1.8842
MCN5-COMP	5	1.49695	0.161804	0.07236	1.2960	1.6979
TB	5	2.23753	0.053403	0.02388	2.1712	2.3038

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB099**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	1.51	<.0001*
MCN1-COMP-T	1.183	<.0001*
MCN2-COMP-T	1.078	<.0001*
MCN3-COMP	1.05	<.0001*
BIME-COMP-T-M	0.965	<.0001*
MCN4-COMP	0.948	<.0001*
BIMW-COMP-T-M	0.841	<.0001*
BIN-COMP-T	0.77	<.0001*
MCN5-COMP	0.769	<.0001*
LA3-REF	-0.21	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	130.000	127.500	26.0000	0.065
BIMW-COMP-T-M	5	90.000	127.500	18.0000	-1.197
BIN-COMP-T	5	63.500	127.500	12.7000	-2.054
LA3-REF	5	15.000	127.500	3.0000	-3.622
MCN1-COMP-T	5	194.500	127.500	38.9000	2.151
MCN2-COMP-T	5	170.000	127.500	34.0000	1.358
MCN3-COMP	5	164.500	127.500	32.9000	1.180
MCN4-COMP	5	131.000	127.500	26.2000	0.097
MCN5-COMP	5	76.500	127.500	15.3000	-1.633
TB	5	240.000	127.500	48.0000	3.622

**1-Way Test, ChiSquare Approximation**

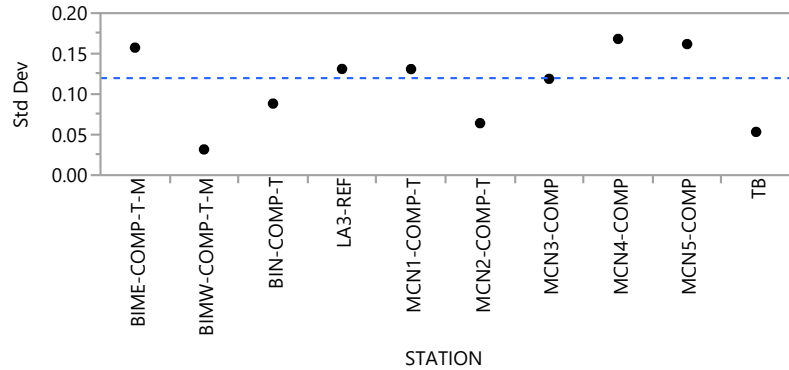
ChiSquare	DF	Prob>ChiSq
38.6847	9	<.0001*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB099**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1574272	0.1194376	0.1192000
BIMW-COMP-T-M	5	0.0317381	0.0241320	0.0239980
BIN-COMP-T	5	0.0883371	0.0618224	0.0576960
LA3-REF	5	0.1311089	0.1018043	0.0937650
MCN1-COMP-T	5	0.1309126	0.1070904	0.1024620
MCN2-COMP-T	5	0.0641470	0.0481832	0.0476960
MCN3-COMP	5	0.1188822	0.0934944	0.0871560
MCN4-COMP	5	0.1681805	0.1364328	0.1241580
MCN5-COMP	5	0.1618037	0.1362728	0.1268480
TB	5	0.0534032	0.0393632	0.0349420

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.5040	9	40	0.1799
Brown-Forsythe	1.2982	9	40	0.2683
Levene	2.7131	9	40	0.0144*
Bartlett	1.6124	9	.	0.1052

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*	Alpha
1.95996	0.05

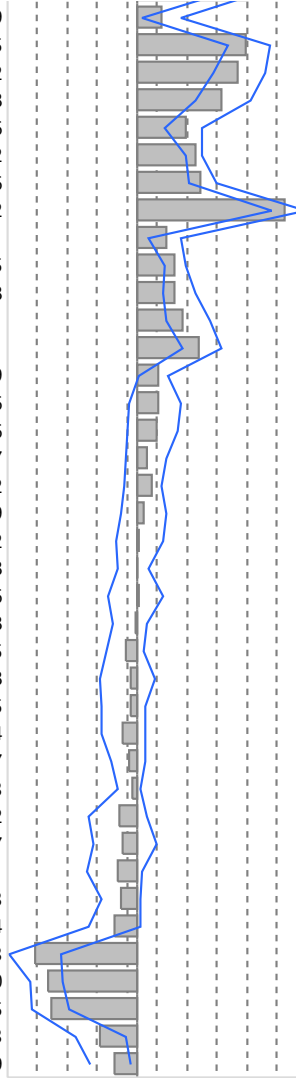
  

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
MCN1-COMP-T	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.31966	0.18150	0.52519
MCN1-COMP-T	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.41525	0.21862	0.66630
MCN1-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.38969	1.12843	1.67966
MCN2-COMP-T	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.23390	0.13786	0.34430
MCN2-COMP-T	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.28934	0.17498	0.48597
MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.28342	1.08468	1.49933

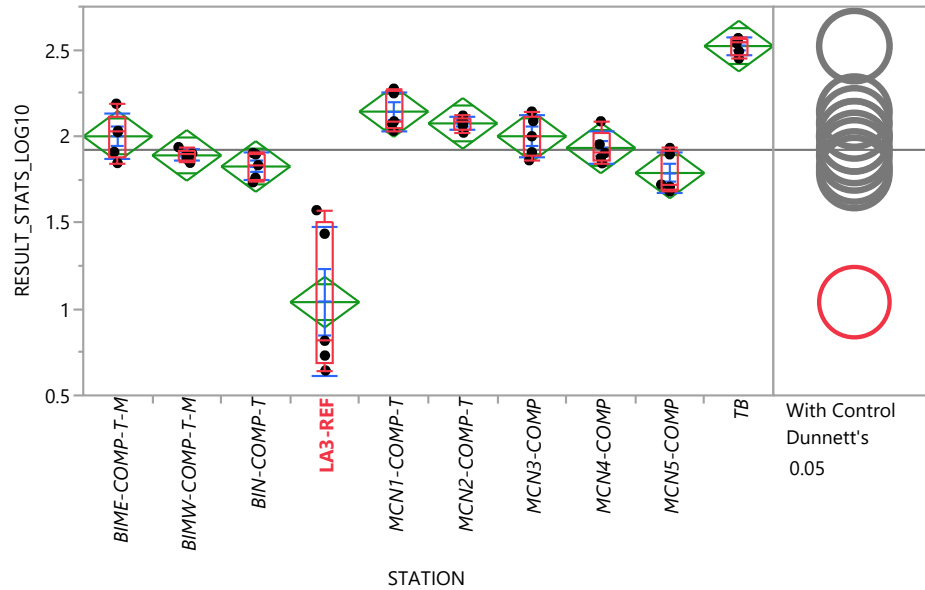
**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB099**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
MCN3-COMP	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.29116	0.05325	0.50649
MCN3-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.26324	1.03892	1.51985
MCN4-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.17463	0.86510	1.47212
MCN5-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.98194	0.67094	1.29888
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.56558	0.31753	0.74886
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.68218	0.56281	0.73972
TB	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.73082	0.59993	0.91956
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.71301	1.54668	1.93292
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.34022	0.13026	0.50431
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.43359	0.31059	0.54795
TB	MCN3-COMP	4.80000	1.914854	2.50672	0.0122*	0.42858	0.29007	0.66968
TB	MCN4-COMP	4.80000	1.914854	2.50672	0.0122*	0.52288	0.33780	0.84451
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	0.71557	0.51104	0.97071
MCN3-COMP	BIMW-COMP-T-M	4.40000	1.914854	2.29783	0.0216*	0.24163	0.01613	0.35359
MCN1-COMP-T	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	0.24455	-0.10072	0.50666
MCN4-COMP	BIN-COMP-T	3.20000	1.914854	1.67115	0.0947	0.23007	-0.12158	0.45876
MCN2-COMP-T	BIME-COMP-T-M	2.00000	1.914854	1.04447	0.2963	0.11728	-0.14447	0.32577
MCN4-COMP	BIMW-COMP-T-M	2.00000	1.914854	1.04447	0.2963	0.16872	-0.15870	0.27892
MCN3-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.08591	-0.19023	0.33579
MCN5-COMP	BIN-COMP-T	0.20000	1.909043	0.10476	0.9166	0.02556	-0.24778	0.28552
MCN3-COMP	MCN2-COMP-T	0.00000	1.914854	0.00000	1.0000	-0.00363	-0.23609	0.13488
MCN4-COMP	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.01819	-0.34553	0.28806
MCN5-COMP	BIMW-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-0.02397	-0.28490	0.10568
BIMW-COMP-T-M	BIME-COMP-T-M	-1.60000	1.914854	-0.83557	0.4034	-0.12602	-0.36465	0.06305
MCN4-COMP	MCN3-COMP	-1.60000	1.914854	-0.83557	0.4034	-0.07979	-0.43144	0.20888
MCN4-COMP	MCN2-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-0.07910	-0.41092	0.08715
MCN3-COMP	MCN1-COMP-T	-2.20000	1.909043	-1.15241	0.2492	-0.15981	-0.41642	0.09124
MCN2-COMP-T	MCN1-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-0.08588	-0.30501	0.08037
BIN-COMP-T	BIMW-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-0.04953	-0.23375	0.03513
MCN5-COMP	BIME-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-0.21209	-0.55821	0.11482
MCN5-COMP	MCN4-COMP	-2.80000	1.914854	-1.46225	0.1437	-0.17324	-0.50991	0.21047
MCN4-COMP	MCN1-COMP-T	-3.20000	1.914854	-1.67115	0.0947	-0.22721	-0.59125	0.04351
BIN-COMP-T	BIME-COMP-T-M	-3.60000	1.914854	-1.88004	0.0601	-0.19189	-0.42137	0.02593
MCN5-COMP	MCN3-COMP	-4.00000	1.914854	-2.08893	0.0367*	-0.26163	-0.55764	0.03564
LA3-REF	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-1.18406	-1.47466	-0.88303
LA3-REF	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-1.03120	-1.24711	-0.86450
LA3-REF	BIN-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-0.98668	-1.20999	-0.79005
MCN5-COMP	MCN1-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-0.42118	-0.71875	-0.12973
MCN5-COMP	MCN2-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-0.26345	-0.53786	-0.08609



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB101**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	1.8451	1.8451	1.87709	2.02374	2.10961	2.18819	2.18819
BIMW-COMP-T-M	1.84642	1.84642	1.857705	1.89311	1.91853	1.93695	1.93695
BIN-COMP-T	1.73373	1.73373	1.7467	1.83251	1.899175	1.90309	1.90309
LA3-REF	0.644349	0.644349	0.687583	0.81651	1.503915	1.5721	1.5721
MCN1-COMP-T	2.03152	2.03152	2.05119	2.08619	2.262045	2.27509	2.27509
MCN2-COMP-T	2.02093	2.02093	2.04137	2.08219	2.10317	2.11919	2.11919
MCN3-COMP	1.86113	1.86113	1.88436	2	2.11525	2.14267	2.14267
MCN4-COMP	1.84365	1.84365	1.859355	1.90309	2.01959	2.08636	2.08636
MCN5-COMP	1.68124	1.68124	1.694405	1.72016	1.91368	1.9321	1.9321
TB	2.44977	2.44977	2.470465	2.53927	2.56418	2.56769	2.56769

**Oneway Anova**

**Summary of Fit**

Rsquare	0.856089
Adj Rsquare	0.82371
Root Mean Square Error	0.162093
Mean of Response	1.92111
Observations (or Sum Wgts)	50

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB101**

**Oneway Anova**

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	9	6.2519579	0.694662	26.4389	<.0001*
Error	40	1.0509678	0.026274		
C. Total	49	7.3029257			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.99943	0.07249	1.8529	2.1459
BIMW-COMP-T-M	5	1.88912	0.07249	1.7426	2.0356
BIN-COMP-T	5	1.82485	0.07249	1.6783	1.9714
LA3-REF	5	1.03990	0.07249	0.8934	1.1864
MCN1-COMP-T	5	2.14253	0.07249	1.9960	2.2890
MCN2-COMP-T	5	2.07425	0.07249	1.9277	2.2208
MCN3-COMP	5	1.99984	0.07249	1.8533	2.1464
MCN4-COMP	5	1.93220	0.07249	1.7857	2.0787
MCN5-COMP	5	1.78727	0.07249	1.6408	1.9338
TB	5	2.52171	0.07249	2.3752	2.6682

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.99943	0.131530	0.05882	1.8361	2.1627
BIMW-COMP-T-M	5	1.88912	0.034106	0.01525	1.8468	1.9315
BIN-COMP-T	5	1.82485	0.076956	0.03442	1.7293	1.9204
LA3-REF	5	1.03990	0.430643	0.19259	0.5052	1.5746
MCN1-COMP-T	5	2.14253	0.111290	0.04977	2.0043	2.2807
MCN2-COMP-T	5	2.07425	0.036218	0.01620	2.0293	2.1192
MCN3-COMP	5	1.99984	0.118209	0.05286	1.8531	2.1466
MCN4-COMP	5	1.93220	0.095058	0.04251	1.8142	2.0502
MCN5-COMP	5	1.78727	0.116978	0.05231	1.6420	1.9325
TB	5	2.52171	0.050123	0.02242	2.4595	2.5839

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB101**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	1.194	<.0001*
MCN1-COMP-T	0.814	<.0001*
MCN2-COMP-T	0.746	<.0001*
MCN3-COMP	0.672	<.0001*
BIME-COMP-T-M	0.671	<.0001*
MCN4-COMP	0.604	<.0001*
BIMW-COMP-T-M	0.561	<.0001*
BIN-COMP-T	0.497	<.0001*
MCN5-COMP	0.459	<.0001*
LA3-REF	-0.29	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	144.000	127.500	28.8000	0.517
BIMW-COMP-T-M	5	96.000	127.500	19.2000	-1.003
BIN-COMP-T	5	72.000	127.500	14.4000	-1.779
LA3-REF	5	15.000	127.500	3.0000	-3.622
MCN1-COMP-T	5	194.000	127.500	38.8000	2.134
MCN2-COMP-T	5	180.000	127.500	36.0000	1.682
MCN3-COMP	5	150.000	127.500	30.0000	0.711
MCN4-COMP	5	117.500	127.500	23.5000	-0.307
MCN5-COMP	5	66.500	127.500	13.3000	-1.957
TB	5	240.000	127.500	48.0000	3.622

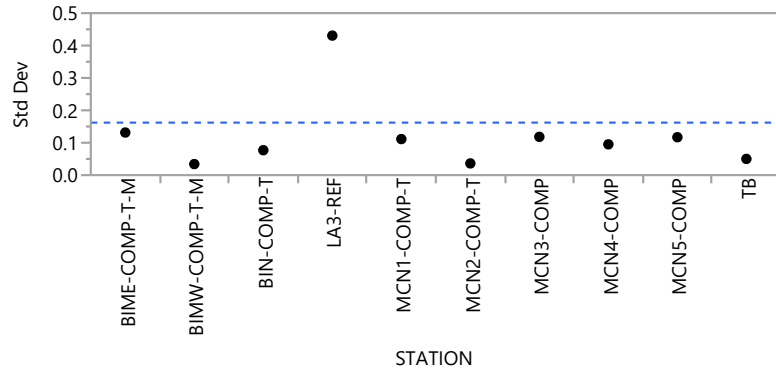
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
38.7454	9	<.0001*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB101**

**Tests that the Variances are Equal**



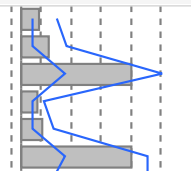
Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1315302	0.0978704	0.0930080
BIMW-COMP-T-M	5	0.0341061	0.0251288	0.0243300
BIN-COMP-T	5	0.0769562	0.0625216	0.0609900
LA3-REF	5	0.4306432	0.3712110	0.3265328
MCN1-COMP-T	5	0.1112902	0.0956104	0.0843420
MCN2-COMP-T	5	0.0362175	0.0263072	0.0247200
MCN3-COMP	5	0.1182087	0.0923872	0.0923560
MCN4-COMP	5	0.0950578	0.0699152	0.0640940
MCN5-COMP	5	0.1169784	0.1011312	0.0877100
TB	5	0.0501225	0.0409976	0.0374860

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	9.0666	9	40	<.0001*
Brown-Forsythe	2.5368	9	40	0.0209*
Levene	17.3914	9	40	<.0001*
Bartlett	4.6896	9	.	<.0001*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*	Alpha	Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1.95996	0.05	MCN1-COMP-T	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.21720	0.13141	0.40610
		MCN1-COMP-T	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.32652	0.13626	0.51542
		MCN1-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.26968	0.49876	1.60465
		MCN2-COMP-T	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.18704	0.12082	0.25020
		MCN2-COMP-T	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.24968	0.12567	0.35952
		MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.26568	0.48971	1.44280

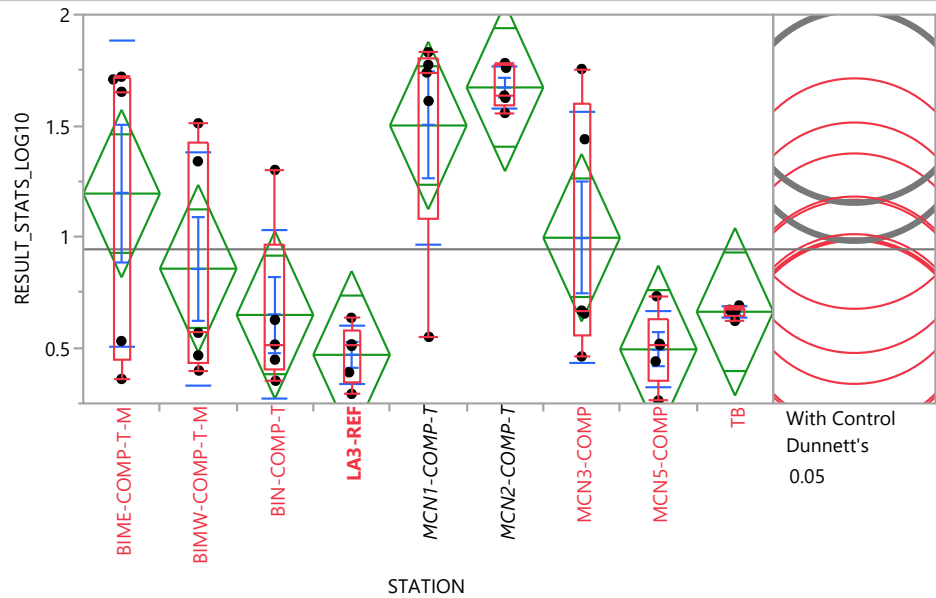


**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB101**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
MCN3-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.13031	0.33549	1.44348	
MCN4-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.08658	0.30296	1.35554	
MCN5-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.90365	0.13547	1.25091	
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.53666	0.30297	0.71557	
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.63916	0.54966	0.71425	
TB	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.69010	0.55451	0.82694	
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.71895	0.91906	1.91632	
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.40497	0.20077	0.52915	
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.45212	0.36262	0.53974	
TB	MCN3-COMP	4.80000	1.914854	2.50672	0.0122*	0.53927	0.34849	0.69954	
TB	MCN4-COMP	4.80000	1.914854	2.50672	0.0122*	0.60785	0.40480	0.71702	
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	0.76853	0.55451	0.87943	
MCN3-COMP	BIN-COMP-T	4.00000	1.914854	2.08893	0.0367*	0.17386	-0.03413	0.38300	
MCN1-COMP-T	BIME-COMP-T-M	3.60000	1.914854	1.88004	0.0601	0.16178	-0.11733	0.40390	
MCN4-COMP	BIN-COMP-T	3.00000	1.909043	1.57147	0.1161	0.10992	-0.05161	0.32669	
MCN3-COMP	BIMW-COMP-T-M	2.80000	1.914854	1.46225	0.1437	0.10689	-0.03898	0.27368	
MCN2-COMP-T	BIME-COMP-T-M	2.00000	1.914854	1.04447	0.2963	0.06341	-0.12638	0.24205	
MCN4-COMP	BIMW-COMP-T-M	1.20000	1.914854	0.62668	0.5309	0.01587	-0.06189	0.21737	
MCN3-COMP	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.00149	-0.28060	0.24273	
MCN2-COMP-T	MCN1-COMP-T	-1.20000	1.914854	-0.62668	0.5309	-0.02438	-0.22807	0.05563	
MCN3-COMP	MCN2-COMP-T	-1.20000	1.914854	-0.62668	0.5309	-0.08219	-0.22602	0.08086	
MCN5-COMP	BIN-COMP-T	-1.40000	1.909043	-0.73335	0.4633	-0.03951	-0.21402	0.17243	
MCN4-COMP	BIME-COMP-T-M	-1.60000	1.914854	-0.83557	0.4034	-0.07092	-0.31313	0.17728	
BIN-COMP-T	BIMW-COMP-T-M	-2.00000	1.914854	-1.04447	0.2963	-0.06060	-0.17728	0.04884	
MCN4-COMP	MCN3-COMP	-2.00000	1.914854	-1.04447	0.2963	-0.05631	-0.26761	0.17877	
MCN5-COMP	BIMW-COMP-T-M	-2.00000	1.914854	-1.04447	0.2963	-0.14883	-0.22938	0.06311	
BIMW-COMP-T-M	BIME-COMP-T-M	-2.40000	1.914854	-1.25336	0.2101	-0.12363	-0.31920	0.05501	
MCN3-COMP	MCN1-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-0.16117	-0.38787	0.07181	
MCN5-COMP	MCN4-COMP	-2.80000	1.914854	-1.46225	0.1437	-0.16241	-0.37879	0.05704	
MCN4-COMP	MCN1-COMP-T	-3.60000	1.914854	-1.88004	0.0601	-0.18873	-0.40535	0.01550	
MCN4-COMP	MCN2-COMP-T	-3.60000	1.914854	-1.88004	0.0601	-0.16637	-0.24413	0.02455	
MCN5-COMP	BIME-COMP-T-M	-3.60000	1.914854	-1.88004	0.0601	-0.20151	-0.48062	0.05016	
MCN5-COMP	MCN3-COMP	-3.60000	1.914854	-1.88004	0.0601	-0.20002	-0.43510	0.03413	
BIN-COMP-T	BIME-COMP-T-M	-4.00000	1.914854	-2.08893	0.0367*	-0.14941	-0.42852	0.05016	
LA3-REF	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-1.11428	-1.45737	-0.33698	
LA3-REF	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-1.07660	-1.25576	-0.29689	
LA3-REF	BIN-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-1.00291	-1.25091	-0.18757	
MCN5-COMP	MCN1-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-0.35374	-0.56776	-0.13626	
MCN5-COMP	MCN2-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-0.33969	-0.41162	-0.12567	

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB105**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.360151	0.360151	0.4455	1.65267	1.714515	1.72051	1.72051
BIMW-COMP-T-M	0.39794	0.39794	0.432073	0.568041	1.425465	1.51098	1.51098
BIN-COMP-T	0.352183	0.352183	0.399671	0.515053	0.963725	1.30103	1.30103
LA3-REF	0.293061	0.293061	0.341516	0.508969	0.57593	0.635484	0.635484
MCN1-COMP-T	0.549531	0.549531	1.080416	1.7394	1.802395	1.83086	1.83086
MCN2-COMP-T	1.55764	1.55764	1.59159	1.63558	1.77136	1.78194	1.78194
MCN3-COMP	0.461609	0.461609	0.558188	0.667936	1.59739	1.75545	1.75545
MCN5-COMP	0.263241	0.263241	0.351287	0.512762	0.625526	0.732537	0.732537
TB	0.621498	0.621498	0.640393	0.669603	0.681349	0.691001	0.691001

**Oneway Anova**

**Summary of Fit**

Rsquare	0.547774
Adj Rsquare	0.447279
Root Mean Square Error	0.416008
Mean of Response	0.943702
Observations (or Sum Wgts)	45



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB105**

**Oneway Anova**

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	8	7.546624	0.943328	5.4508	0.0002*
Error	36	6.230268	0.173063		
C. Total	44	13.776892			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.19454	0.18604	0.8172	1.5719
BIMW-COMP-T-M	5	0.85662	0.18604	0.4793	1.2339
BIN-COMP-T	5	0.64837	0.18604	0.2711	1.0257
LA3-REF	5	0.46877	0.18604	0.0915	0.8461
MCN1-COMP-T	5	1.50100	0.18604	1.1237	1.8783
MCN2-COMP-T	5	1.67230	0.18604	1.2950	2.0496
MCN3-COMP	5	0.99582	0.18604	0.6185	1.3731
MCN5-COMP	5	0.49328	0.18604	0.1160	0.8706
TB	5	0.66262	0.18604	0.2853	1.0399

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.19454	0.686912	0.30720	0.3416	2.0475
BIMW-COMP-T-M	5	0.85662	0.526280	0.23536	0.2032	1.5101
BIN-COMP-T	5	0.64837	0.378297	0.16918	0.1787	1.1181
LA3-REF	5	0.46877	0.131109	0.05863	0.3060	0.6316
MCN1-COMP-T	5	1.50100	0.537957	0.24058	0.8330	2.1690
MCN2-COMP-T	5	1.67230	0.095566	0.04274	1.5536	1.7910
MCN3-COMP	5	0.99582	0.566336	0.25327	0.2926	1.6990
MCN5-COMP	5	0.49328	0.168885	0.07553	0.2836	0.7030
TB	5	0.66262	0.025684	0.01149	0.6307	0.6945

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.78823	0.05

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB105**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
MCN2-COMP-T	0.47	0.0004*
MCN1-COMP-T	0.299	0.0026*
BIME-COMP-T-M	-0.01	0.0536
MCN3-COMP	-0.21	0.2534
BIMW-COMP-T-M	-0.35	0.5686
TB	-0.54	0.9739
BIN-COMP-T	-0.55	0.9831
MCN5-COMP	-0.71	1.0000
LA3-REF	-0.73	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	134.000	115.000	26.8000	0.668
BIMW-COMP-T-M	5	96.000	115.000	19.2000	-0.668
BIN-COMP-T	5	73.000	115.000	14.6000	-1.499
LA3-REF	5	53.000	115.000	10.6000	-2.221
MCN1-COMP-T	5	179.000	115.000	35.8000	2.293
MCN2-COMP-T	5	190.000	115.000	38.0000	2.691
MCN3-COMP	5	127.000	115.000	25.4000	0.415
MCN5-COMP	5	63.000	115.000	12.6000	-1.860
TB	5	120.000	115.000	24.0000	0.163

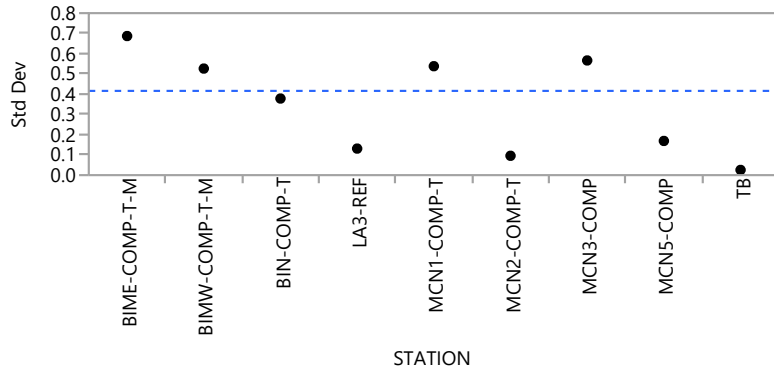
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
21.9409	8	0.0050*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB105**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.6869125	0.5992322	0.5076062
BIMW-COMP-T-M	5	0.5262803	0.4550734	0.3973570
BIN-COMP-T	5	0.3782966	0.2610646	0.2256216
LA3-REF	5	0.1311094	0.1018048	0.0937654
MCN1-COMP-T	5	0.5379573	0.3805893	0.2887918
MCN2-COMP-T	5	0.0955660	0.0792512	0.0719080
MCN3-COMP	5	0.5663360	0.4812574	0.4156810
MCN5-COMP	5	0.1688849	0.1135923	0.1096954
TB	5	0.0256844	0.0177796	0.0163824

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[5]	2.3435	8	36	0.0386*
Brown-Forsythe	1.1360	8	36	0.3637
Levene	7.7103	8	36	<.0001*
Bartlett	4.6721	8	.	<.0001*

Warning: Small sample sizes. Use Caution.

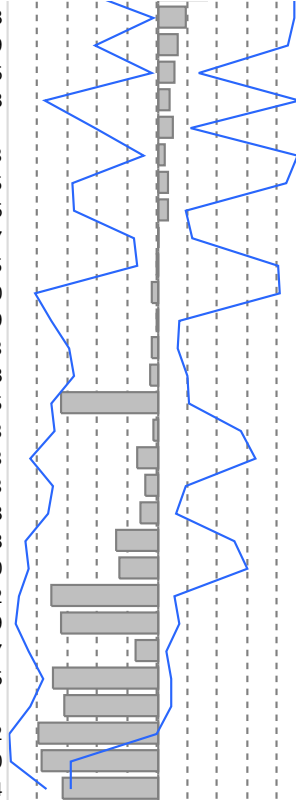
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*	Alpha	Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1.95996	0.05	MCN2-COMP-T	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	1.06754	0.11456	1.36284
		MCN2-COMP-T	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	1.13436	0.32451	1.40860
		MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.23557	0.99006	1.46772
		MCN1-COMP-T	LA3-REF	4.40000	1.914854	2.29783	0.0216*	1.22303	0.03316	1.48087
		TB	LA3-REF	4.40000	1.914854	2.29783	0.0216*	0.16273	0.02380	0.37864
		MCN1-COMP-T	BIN-COMP-T	4.00000	1.914854	2.08893	0.0367*	1.14751	-0.07689	1.42175
		MCN1-COMP-T	BIMW-COMP-T-M	3.60000	1.914854	1.88004	0.0601	0.49091	-0.79042	1.37599

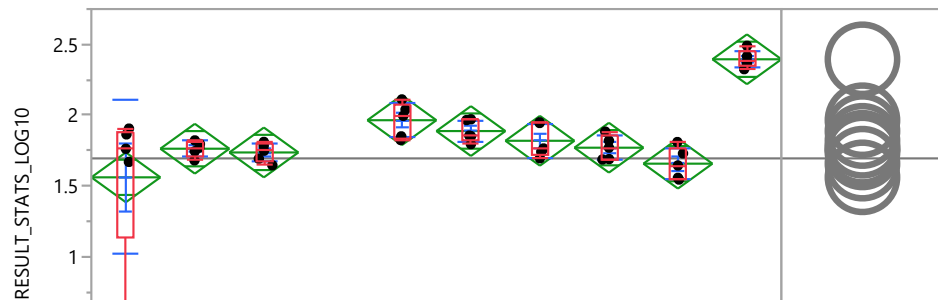
**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB105**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

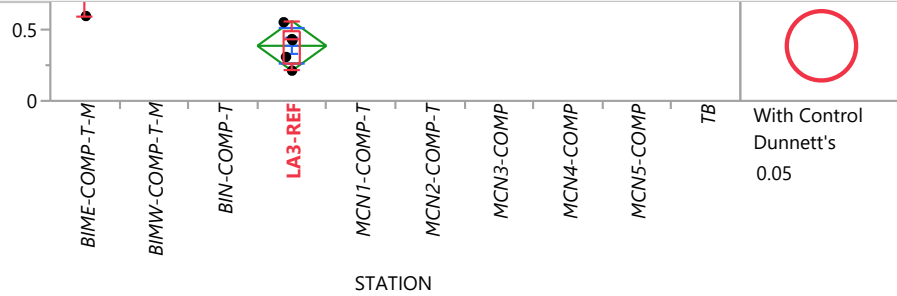
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
MCN3-COMP	LA3-REF	3.60000	1.914854	1.88004	0.0601	0.27797	-0.05477	1.36548
MCN3-COMP	BIN-COMP-T	2.80000	1.914854	1.46225	0.1437	0.20761	-0.64626	1.30829
TB	MCN5-COMP	2.80000	1.914854	1.46225	0.1437	0.15893	-0.07325	0.40846
MCN1-COMP-T	BIME-COMP-T-M	2.40000	1.914854	1.25336	0.2101	0.11035	-1.15899	1.41378
TB	BIN-COMP-T	2.40000	1.914854	1.25336	0.2101	0.15455	-0.64174	0.31951
MCN2-COMP-T	BIME-COMP-T-M	1.20000	1.914854	0.62668	0.5309	0.07342	-0.15088	1.40063
MCN3-COMP	BIMW-COMP-T-M	1.20000	1.914854	0.62668	0.5309	0.09989	-0.87834	1.28925
TB	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.10156	-0.85169	0.27376
MCN5-COMP	LA3-REF	0.40000	1.914854	0.20889	0.8345	0.00379	-0.25313	0.34257
MCN2-COMP-T	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	-0.01315	-0.21629	1.21125
MCN3-COMP	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.06924	-1.24691	1.22460
TB	MCN3-COMP	0.00000	1.914854	0.00000	1.0000	-0.00865	-1.09616	0.21009
LA3-REF	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.05912	-0.91106	0.18833
MCN5-COMP	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.07572	-0.86170	0.28538
TB	BIME-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.98307	-1.08702	0.31155
BIN-COMP-T	BIMW-COMP-T-M	-1.20000	1.914854	-0.62668	0.5309	-0.05299	-1.06382	0.83483
BIMW-COMP-T-M	BIME-COMP-T-M	-1.60000	1.914854	-0.83557	0.4034	-0.20953	-1.31058	0.98013
MCN5-COMP	BIMW-COMP-T-M	-1.60000	1.914854	-0.83557	0.4034	-0.13470	-1.07671	0.26633
LA3-REF	BIMW-COMP-T-M	-2.00000	1.914854	-1.04447	0.2963	-0.17314	-1.12101	0.16928
BIN-COMP-T	BIME-COMP-T-M	-2.40000	1.914854	-1.25336	0.2101	-0.41948	-1.35634	0.77018
MCN3-COMP	MCN1-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-0.39153	-1.31232	0.88980
LA3-REF	BIME-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-1.08503	-1.41546	0.15622
MCN5-COMP	BIME-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-0.98797	-1.44528	0.20169
MCN5-COMP	MCN3-COMP	-2.80000	1.914854	-1.46225	0.1437	-0.22860	-1.31612	0.07777
TB	MCN1-COMP-T	-2.80000	1.914854	-1.46225	0.1437	-1.06980	-1.17157	0.12216
MCN3-COMP	MCN2-COMP-T	-3.60000	1.914854	-1.88004	0.0601	-0.95760	-1.29917	0.12991
MCN5-COMP	MCN1-COMP-T	-4.40000	1.914854	-2.29783	0.0216*	-1.22089	-1.51069	-0.03102
MCN5-COMP	MCN2-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-1.18621	-1.49754	-0.89300
TB	MCN2-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-0.97629	-1.13928	-0.88594



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB110**



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB110**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.600216	0.600216	1.134613	1.76176	1.883975	1.90443	1.90443
BIMW-COMP-T-M	1.68008	1.68008	1.71201	1.77015	1.80842	1.82096	1.82096
BIN-COMP-T	1.64509	1.64509	1.66838	1.74819	1.796815	1.81034	1.81034
LA3-REF	0.21388	0.21388	0.262335	0.429787	0.496748	0.556303	0.556303
MCN1-COMP-T	1.82391	1.82391	1.83676	1.99447	2.07533	2.11054	2.11054
MCN2-COMP-T	1.79486	1.79486	1.82255	1.85494	1.96764	1.97044	1.97044
MCN3-COMP	1.69437	1.69437	1.717365	1.76391	1.946495	1.94885	1.94885
MCN4-COMP	1.686	1.686	1.687375	1.76955	1.851215	1.88289	1.88289
MCN5-COMP	1.54407	1.54407	1.550185	1.64345	1.769155	1.80938	1.80938
TB	2.32483	2.32483	2.344005	2.37919	2.453255	2.49009	2.49009

**Oneway Anova**

**Summary of Fit**

Rsquare	0.885352
Adj Rsquare	0.859556
Root Mean Square Error	0.195015
Mean of Response	1.693693
Observations (or Sum Wgts)	50

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	9	11.747504	1.30528	34.3215	<.0001*
Error	40	1.521236	0.03803		
C. Total	49	13.268740			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.55979	0.08721	1.3835	1.7361
BIMW-COMP-T-M	5	1.76220	0.08721	1.5859	1.9385
BIN-COMP-T	5	1.73572	0.08721	1.5595	1.9120
LA3-REF	5	0.38959	0.08721	0.2133	0.5659
MCN1-COMP-T	5	1.96373	0.08721	1.7875	2.1400

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB110**

**Oneway Anova**

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
MCN2-COMP-T	5	1.88706	0.08721	1.7108	2.0633
MCN3-COMP	5	1.81833	0.08721	1.6421	1.9946
MCN4-COMP	5	1.76935	0.08721	1.5931	1.9456
MCN5-COMP	5	1.65643	0.08721	1.4802	1.8327
TB	5	2.39474	0.08721	2.2185	2.5710

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.55979	0.544181	0.24337	0.8841	2.2355
BIMW-COMP-T-M	5	1.76220	0.054147	0.02422	1.6950	1.8294
BIN-COMP-T	5	1.73572	0.067344	0.03012	1.6521	1.8193
LA3-REF	5	0.38959	0.131109	0.05863	0.2268	0.5524
MCN1-COMP-T	5	1.96373	0.123396	0.05518	1.8105	2.1169
MCN2-COMP-T	5	1.88706	0.077282	0.03456	1.7911	1.9830
MCN3-COMP	5	1.81833	0.119656	0.05351	1.6698	1.9669
MCN4-COMP	5	1.76935	0.084932	0.03798	1.6639	1.8748
MCN5-COMP	5	1.65643	0.113434	0.05073	1.5156	1.7973
TB	5	2.39474	0.062624	0.02801	2.3170	2.4725

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB110**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	1.658	<.0001*
MCN1-COMP-T	1.227	<.0001*
MCN2-COMP-T	1.151	<.0001*
MCN3-COMP	1.082	<.0001*
MCN4-COMP	1.033	<.0001*
BIMW-COMP-T-M	1.026	<.0001*
BIN-COMP-T	0.999	<.0001*
MCN5-COMP	0.92	<.0001*
BIME-COMP-T-M	0.823	<.0001*
LA3-REF	-0.35	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	112.000	127.500	22.4000	-0.485
BIMW-COMP-T-M	5	113.000	127.500	22.6000	-0.453
BIN-COMP-T	5	99.000	127.500	19.8000	-0.905
LA3-REF	5	15.000	127.500	3.0000	-3.622
MCN1-COMP-T	5	197.000	127.500	39.4000	2.231
MCN2-COMP-T	5	178.000	127.500	35.6000	1.617
MCN3-COMP	5	135.000	127.500	27.0000	0.226
MCN4-COMP	5	117.000	127.500	23.4000	-0.323
MCN5-COMP	5	69.000	127.500	13.8000	-1.876
TB	5	240.000	127.500	48.0000	3.622

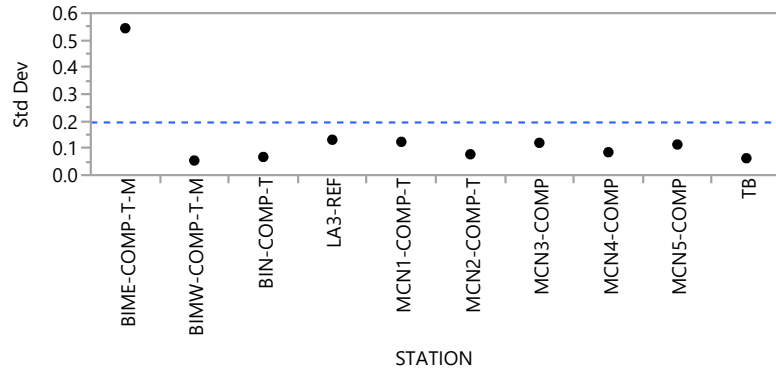
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
35.3360	9	<.0001*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB110**

**Tests that the Variances are Equal**



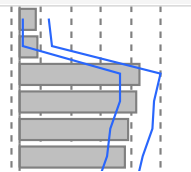
Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.5441810	0.3838285	0.2997448
BIMW-COMP-T-M	5	0.0541466	0.0401536	0.0385640
BIN-COMP-T	5	0.0673438	0.0538688	0.0513740
LA3-REF	5	0.1311092	0.1018045	0.0937652
MCN1-COMP-T	5	0.1233963	0.1015760	0.0954280
MCN2-COMP-T	5	0.0772823	0.0644608	0.0580360
MCN3-COMP	5	0.1196563	0.1025352	0.0916520
MCN4-COMP	5	0.0849323	0.0655768	0.0655360
MCN5-COMP	5	0.1134341	0.0901832	0.0875880
TB	5	0.0626237	0.0468104	0.0437000

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.3074	9	40	0.2637
Brown-Forsythe	1.0740	9	40	0.4025
Levene	3.9655	9	40	0.0011*
Bartlett	4.9639	9	.	<.0001*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

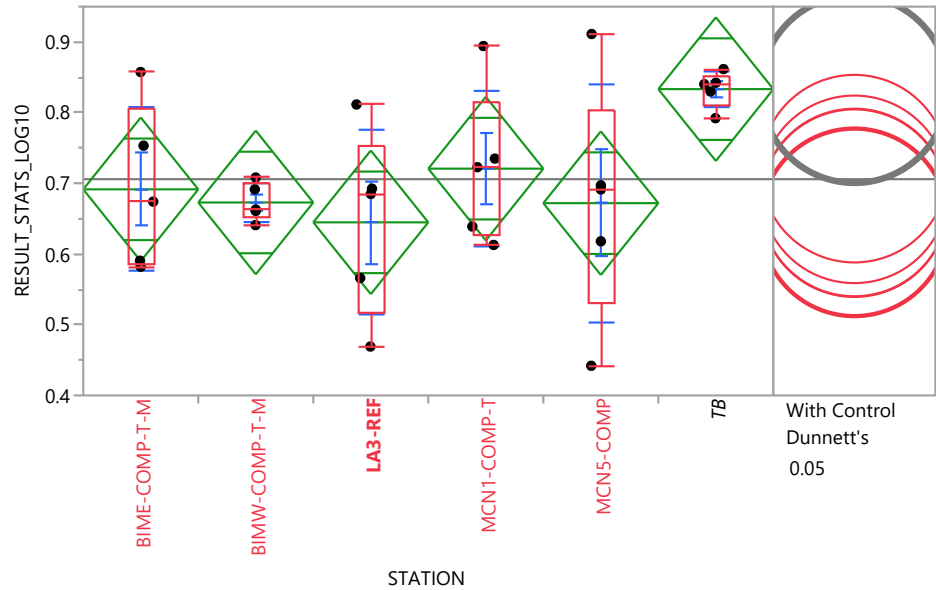
q*	Alpha	Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1.95996	0.05	MCN1-COMP-T	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.21916	0.02803	0.36660
		MCN1-COMP-T	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.22978	0.03927	0.41887
		MCN1-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.56468	1.29331	1.82624
		MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.52765	1.29394	1.75096
		MCN3-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.42957	1.18406	1.73026
		MCN4-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.37796	1.13245	1.60566





Oneway Analysis of RESULT_STATS_LOG10 By STATION CHEM_OUT=PCB110									
Nonparametric Comparisons For Each Pair Using Wilcoxon Method									
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
MCN5-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.25308	1.00000	1.51505	
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.62657	0.45875	1.81620	
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.62054	0.52895	0.74615	
TB	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.66823	0.54154	0.79842	
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.98663	1.80688	2.20254	
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.42195	0.25264	0.64048	
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.51965	0.35999	0.63985	
TB	MCN3-COMP	4.80000	1.914854	2.50672	0.0122*	0.59927	0.38069	0.74973	
TB	MCN4-COMP	4.80000	1.914854	2.50672	0.0122*	0.63608	0.48029	0.80134	
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	0.76116	0.55380	0.93379	
MCN2-COMP-T	BIN-COMP-T	4.40000	1.914854	2.29783	0.0216*	0.15857	0.01157	0.31975	
MCN2-COMP-T	BIMW-COMP-T-M	4.00000	1.914854	2.08893	0.0367*	0.11478	-0.00102	0.28476	
MCN1-COMP-T	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	0.20611	-0.05482	1.43990	
MCN2-COMP-T	BIME-COMP-T-M	2.40000	1.914854	1.25336	0.2101	0.10692	-0.06866	1.36462	
MCN3-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.07135	-0.16915	1.34392	
MCN3-COMP	BIN-COMP-T	1.60000	1.914854	0.83557	0.4034	0.07224	-0.08892	0.29905	
MCN4-COMP	BIN-COMP-T	0.80000	1.914854	0.41779	0.6761	0.03625	-0.12159	0.19122	
MCN3-COMP	BIMW-COMP-T-M	0.40000	1.914854	0.20889	0.8345	0.01997	-0.10151	0.26406	
MCN4-COMP	BIME-COMP-T-M	0.40000	1.914854	0.20889	0.8345	0.01699	-0.21568	1.21932	
BIMW-COMP-T-M	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.00839	-0.18344	1.19566	
MCN4-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.00592	-0.13221	0.13946	
BIN-COMP-T	BIME-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-0.02392	-0.21843	1.18307	
BIN-COMP-T	BIMW-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.02196	-0.15079	0.10321	
MCN4-COMP	MCN3-COMP	-1.20000	1.914854	-0.62668	0.5309	-0.05436	-0.26010	0.14253	
MCN2-COMP-T	MCN1-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-0.06968	-0.26030	0.14093	
MCN5-COMP	BIME-COMP-T-M	-1.60000	1.914854	-0.83557	0.4034	-0.11271	-0.34813	1.12871	
MCN3-COMP	MCN2-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-0.08633	-0.27047	0.14928	
MCN5-COMP	BIN-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-0.08879	-0.25404	0.11771	
MCN5-COMP	BIMW-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-0.12378	-0.26466	0.06544	
MCN5-COMP	MCN4-COMP	-2.80000	1.914854	-1.46225	0.1437	-0.12970	-0.32659	0.12063	
MCN3-COMP	MCN1-COMP-T	-3.20000	1.914854	-1.67115	0.0947	-0.12954	-0.37018	0.12023	
MCN4-COMP	MCN2-COMP-T	-3.20000	1.914854	-1.67115	0.0947	-0.10886	-0.28169	0.03265	
MCN5-COMP	MCN3-COMP	-3.20000	1.914854	-1.67115	0.0947	-0.15030	-0.40007	0.06902	
MCN4-COMP	MCN1-COMP-T	-4.00000	1.914854	-2.08893	0.0367*	-0.17493	-0.42179	0.03328	
MCN5-COMP	MCN2-COMP-T	-4.40000	1.914854	-2.29783	0.0216*	-0.23856	-0.42077	-0.04086	
LA3-REF	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-1.34813	-1.64964	-0.16302	
LA3-REF	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-1.36609	-1.58200	-1.18764	
LA3-REF	BIN-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-1.34610	-1.56941	-1.13537	
MCN5-COMP	MCN1-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-0.30116	-0.55424	-0.04023	

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB114**



Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.582089	0.582089	0.586345	0.674146	0.805433	0.857537	0.857537
BIMW-COMP-T-M	0.640978	0.640978	0.651008	0.663016	0.699887	0.70826	0.70826
LA3-REF	0.469152	0.469152	0.517607	0.68506	0.752021	0.811575	0.811575
MCN1-COMP-T	0.612918	0.612918	0.625945	0.722848	0.81464	0.894245	0.894245
MCN5-COMP	0.441957	0.441957	0.530003	0.691477	0.804241	0.911253	0.911253
TB	0.792194	0.792194	0.811089	0.840299	0.852045	0.861697	0.861697

**Oneway Anova**

**Summary of Fit**

Rsquare	0.280037
Adj Rsquare	0.130045
Root Mean Square Error	0.110077
Mean of Response	0.705912
Observations (or Sum Wgts)	30

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	5	0.11311285	0.022623	1.8670	0.1378
Error	24	0.29080813	0.012117		
C. Total	29	0.40392098			

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB114**

**Oneway Anova**

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.691540	0.04923	0.58994	0.79314
BIMW-COMP-T-M	5	0.672961	0.04923	0.57136	0.77456
LA3-REF	5	0.644863	0.04923	0.54326	0.74646
MCN1-COMP-T	5	0.720803	0.04923	0.61920	0.82241
MCN5-COMP	5	0.671993	0.04923	0.57039	0.77359
TB	5	0.833313	0.04923	0.73171	0.93491

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.691540	0.116021	0.05189	0.54748	0.83560
BIMW-COMP-T-M	5	0.672961	0.026712	0.01195	0.63979	0.70613
LA3-REF	5	0.644863	0.131109	0.05863	0.48207	0.80766
MCN1-COMP-T	5	0.720803	0.110255	0.04931	0.58390	0.85770
MCN5-COMP	5	0.671993	0.168885	0.07553	0.46229	0.88169
TB	5	0.833313	0.025684	0.01149	0.80142	0.86520

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.69532	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	0.001	0.0488*
MCN1-COMP-T	-0.11	0.7146
BIME-COMP-T-M	-0.14	0.9404
BIMW-COMP-T-M	-0.16	0.9929
MCN5-COMP	-0.16	0.9939
LA3-REF	-0.19	1.0000

Positive values show pairs of means that are significantly different.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB114**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

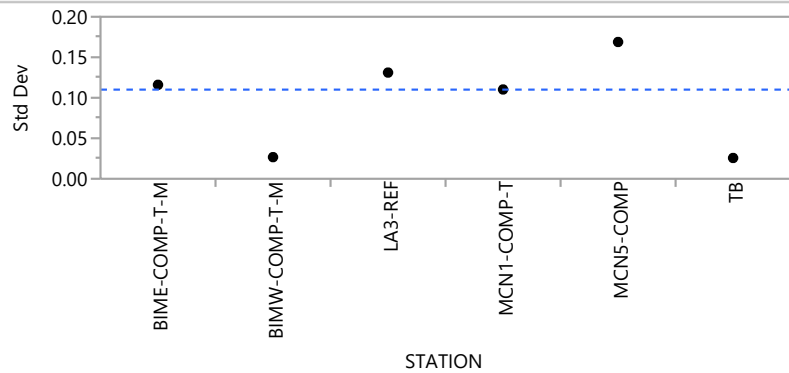
Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	69.000	77.500	13.8000	-0.445
BIMW-COMP-T-M	5	63.000	77.500	12.6000	-0.779
LA3-REF	5	57.000	77.500	11.4000	-1.113
MCN1-COMP-T	5	82.000	77.500	16.4000	0.223
MCN5-COMP	5	69.000	77.500	13.8000	-0.445
TB	5	125.000	77.500	25.0000	2.615

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
7.8748	5	0.1633

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif	
			to Mean	to Median
BIME-COMP-T-M	5	0.1160212	0.0911140	0.0876352
BIMW-COMP-T-M	5	0.0267124	0.0215406	0.0195516
LA3-REF	5	0.1311094	0.1018048	0.0937654
MCN1-COMP-T	5	0.1102546	0.0758867	0.0754778
MCN5-COMP	5	0.1688849	0.1135922	0.1096954
TB	5	0.0256844	0.0177796	0.0163824

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.1733	5	24	0.3511
Brown-Forsythe	1.4629	5	24	0.2387
Levene	2.0267	5	24	0.1109
Bartlett	3.2289	5	.	0.0064*

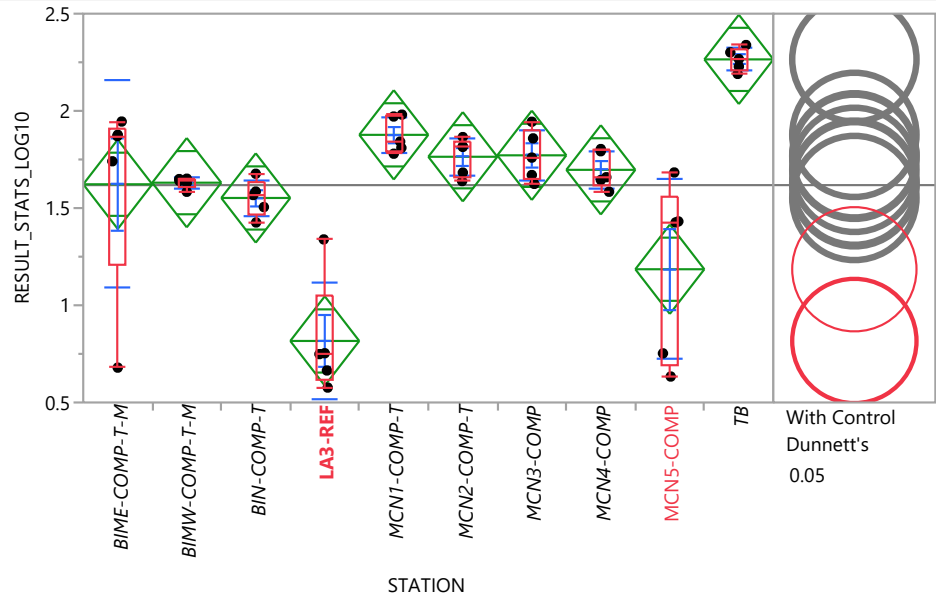
Warning: Small sample sizes. Use Caution.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB114**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*		Alpha									
1.95996		0.05									
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL			
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.166967	0.100680	0.2014140			
TB	LA3-REF	4.40000	1.914854	2.29783	0.0216*	0.157332	0.018408	0.3732400			
TB	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	0.166153	-0.027554	0.2710970			
TB	MCN1-COMP-T	2.80000	1.914854	1.46225	0.1437	0.119544	-0.064262	0.2294740			
TB	MCN5-COMP	2.80000	1.914854	1.46225	0.1437	0.150915	-0.081270	0.4004350			
MCN1-COMP-T	LA3-REF	1.60000	1.914854	0.83557	0.4034	0.049974	-0.172603	0.3281830			
MCN1-COMP-T	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.036708	-0.218565	0.3036450			
MCN1-COMP-T	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.031334	-0.078596	0.2332070			
MCN5-COMP	LA3-REF	0.40000	1.914854	0.20889	0.8345	0.006417	-0.250509	0.3451910			
BIMW-COMP-T-M	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.011130	-0.196499	0.1176600			
LA3-REF	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.006454	-0.222362	0.1505370			
MCN5-COMP	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.017331	-0.311371	0.3206530			
MCN5-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.000037	-0.249557	0.2502150			
LA3-REF	BIME-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.045962	-0.291475	0.2209750			
MCN5-COMP	MCN1-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.031371	-0.293077	0.2722810			

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB118**



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB118**

**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.679226	0.679226	1.210018	1.87021	1.910995	1.94515	1.94515
BIMW-COMP-T-M	1.58384	1.58384	1.606385	1.63985	1.65024	1.6512	1.6512
BIN-COMP-T	1.42597	1.42597	1.46556	1.56708	1.63086	1.67669	1.67669
LA3-REF	0.576655	0.576655	0.620628	0.748816	1.046074	1.33882	1.33882
MCN1-COMP-T	1.77971	1.77971	1.794825	1.84206	1.975865	1.98069	1.98069
MCN2-COMP-T	1.63878	1.63878	1.66068	1.81477	1.84173	1.8653	1.8653
MCN3-COMP	1.62434	1.62434	1.647175	1.75967	1.901405	1.94414	1.94414
MCN4-COMP	1.58402	1.58402	1.614315	1.65885	1.79805	1.80371	1.80371
MCN5-COMP	0.633468	0.633468	0.693062	1.42597	1.55727	1.68318	1.68318
TB	2.19013	2.19013	2.209025	2.26627	2.319925	2.33882	2.33882

**Oneway Anova**

**Summary of Fit**

Rsquare	0.726064
Adj Rsquare	0.664428
Root Mean Square Error	0.254238
Mean of Response	1.618034
Observations (or Sum Wgts)	50

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	9	6.8527927	0.761421	11.7799	<.0001*
Error	40	2.5854880	0.064637		
C. Total	49	9.4382807			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.62245	0.11370	1.3927	1.8522
BIMW-COMP-T-M	5	1.63062	0.11370	1.4008	1.8604
BIN-COMP-T	5	1.55198	0.11370	1.3222	1.7818
LA3-REF	5	0.81644	0.11370	0.5866	1.0462
MCN1-COMP-T	5	1.87669	0.11370	1.6469	2.1065
MCN2-COMP-T	5	1.76392	0.11370	1.5341	1.9937
MCN3-COMP	5	1.77137	0.11370	1.5416	2.0012
MCN4-COMP	5	1.69672	0.11370	1.4669	1.9265
MCN5-COMP	5	1.18533	0.11370	0.9555	1.4151
TB	5	2.26483	0.11370	2.0350	2.4946

Std Error uses a pooled estimate of error variance

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB118**

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.62245	0.532427	0.23811	0.9614	2.2835
BIMW-COMP-T-M	5	1.63062	0.027605	0.01235	1.5963	1.6649
BIN-COMP-T	5	1.55198	0.093467	0.04180	1.4359	1.6680
LA3-REF	5	0.81644	0.300828	0.13453	0.4429	1.1900
MCN1-COMP-T	5	1.87669	0.093244	0.04170	1.7609	1.9925
MCN2-COMP-T	5	1.76392	0.097573	0.04364	1.6428	1.8851
MCN3-COMP	5	1.77137	0.131814	0.05895	1.6077	1.9350
MCN4-COMP	5	1.69672	0.096761	0.04327	1.5766	1.8169
MCN5-COMP	5	1.18533	0.463156	0.20713	0.6102	1.7604
TB	5	2.26483	0.058586	0.02620	2.1921	2.3376

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	0.996	<.0001*
MCN1-COMP-T	0.608	<.0001*
MCN3-COMP	0.503	<.0001*
MCN2-COMP-T	0.495	<.0001*
MCN4-COMP	0.428	<.0001*
BIMW-COMP-T-M	0.362	<.0001*
BIME-COMP-T-M	0.354	<.0001*
BIN-COMP-T	0.283	0.0004*
MCN5-COMP	-0.08	0.1556
LA3-REF	-0.45	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	157.000	127.500	31.4000	0.938
BIMW-COMP-T-M	5	97.000	127.500	19.4000	-0.970
BIN-COMP-T	5	76.500	127.500	15.3000	-1.633
LA3-REF	5	24.000	127.500	4.8000	-3.331
MCN1-COMP-T	5	191.000	127.500	38.2000	2.037
MCN2-COMP-T	5	156.000	127.500	31.2000	0.905

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB118**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

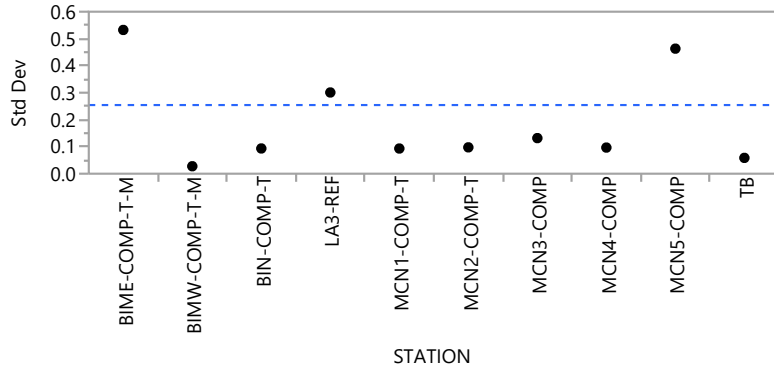
Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
MCN3-COMP	5	152.000	127.500	30.4000	0.776
MCN4-COMP	5	125.000	127.500	25.0000	-0.065
MCN5-COMP	5	56.500	127.500	11.3000	-2.280
TB	5	240.000	127.500	48.0000	3.622

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
36.0130	9	<.0001*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.5324273	0.3772885	0.2803908
BIMW-COMP-T-M	5	0.0276050	0.0193880	0.0175420
BIN-COMP-T	5	0.0934672	0.0691392	0.0661200
LA3-REF	5	0.3008276	0.2089504	0.1701784
MCN1-COMP-T	5	0.0932441	0.0793416	0.0724160
MCN2-COMP-T	5	0.0975728	0.0825904	0.0724200
MCN3-COMP	5	0.1318136	0.1040312	0.1016920
MCN4-COMP	5	0.0967606	0.0810672	0.0734940
MCN5-COMP	5	0.4631556	0.3938121	0.3456834
TB	5	0.0585864	0.0446472	0.0443600



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB118**

**Tests that the Variances are Equal**

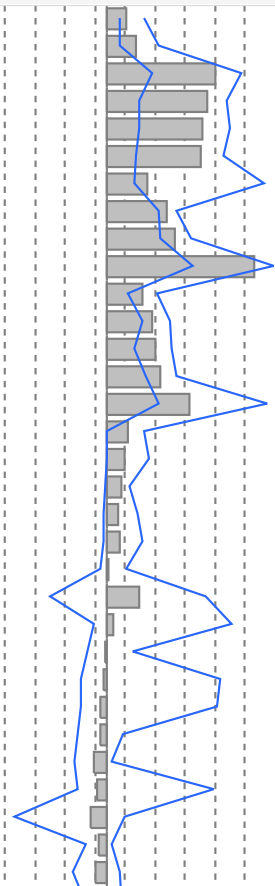
Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.4891	9	40	0.1853
Brown-Forsythe	1.2083	9	40	0.3171
Levene	5.3176	9	40	<.0001*
Bartlett	5.5085	9	.	<.0001*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q\* Alpha  
1.95996 0.05

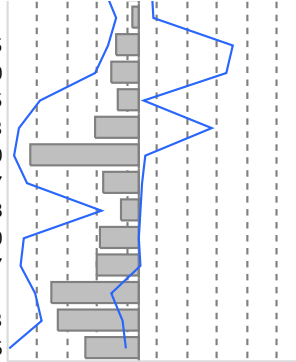
Level	- Level	Score Mean	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
MCN1-COMP-T	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.21313	0.13043	0.38720
MCN1-COMP-T	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.30479	0.13325	0.54507
MCN1-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.14534	0.47112	1.39439
MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.06213	0.34376	1.24151
MCN3-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.01085	0.33119	1.28202
MCN4-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.98001	0.30579	1.21574
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.43082	0.28277	1.62180
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.63734	0.54085	0.71719
TB	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.71600	0.55123	0.87506
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.54770	0.88910	1.72438
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.38586	0.21909	0.52888
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.48626	0.36262	0.66225
TB	MCN3-COMP	4.80000	1.914854	2.50672	0.0122*	0.50660	0.28378	0.67669
TB	MCN4-COMP	4.80000	1.914854	2.50672	0.0122*	0.56907	0.39774	0.71701
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	0.87506	0.54474	1.66756
MCN2-COMP-T	BIN-COMP-T	4.40000	1.914854	2.29783	0.0216*	0.22974	0.00589	0.39219
MCN3-COMP	BIN-COMP-T	4.00000	1.914854	2.08893	0.0367*	0.19837	-0.00668	0.43899
MCN2-COMP-T	BIMW-COMP-T-M	3.60000	1.914854	1.88004	0.0601	0.16696	-0.01050	0.23637
MCN3-COMP	BIMW-COMP-T-M	3.20000	1.914854	1.67115	0.0947	0.11982	-0.02494	0.31521
MCN4-COMP	BIN-COMP-T	3.20000	1.914854	1.67115	0.0947	0.13946	-0.03208	0.36642
MCN4-COMP	BIMW-COMP-T-M	2.40000	1.914854	1.25336	0.2101	0.02992	-0.06526	0.20855
MCN5-COMP	LA3-REF	2.40000	1.914854	1.25336	0.2101	0.34436	-0.58617	1.01858
MCN1-COMP-T	BIME-COMP-T-M	1.20000	1.914854	0.62668	0.5309	0.06913	-0.13521	1.29181
MCN3-COMP	MCN2-COMP-T	0.00000	1.914854	0.00000	1.0000	-0.00663	-0.19529	0.26156
MCN3-COMP	BIME-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.01817	-0.27514	1.17944
MCN2-COMP-T	BIME-COMP-T-M	-1.60000	1.914854	-0.83557	0.4034	-0.05823	-0.26257	1.13893
MCN4-COMP	MCN3-COMP	-1.60000	1.914854	-0.83557	0.4034	-0.06628	-0.29953	0.16805
MCN2-COMP-T	MCN1-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-0.12736	-0.33226	0.05536
MCN4-COMP	BIME-COMP-T-M	-2.00000	1.914854	-1.04447	0.2963	-0.09620	-0.30054	1.11316
MCN5-COMP	BIN-COMP-T	-2.20000	1.909043	-1.15241	0.2492	-0.15906	-0.95156	0.17803
BIN-COMP-T	BIMW-COMP-T-M	-2.40000	1.914854	-1.25336	0.2101	-0.07277	-0.22331	0.04776
MCN3-COMP	MCN1-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-0.11237	-0.34670	0.13420



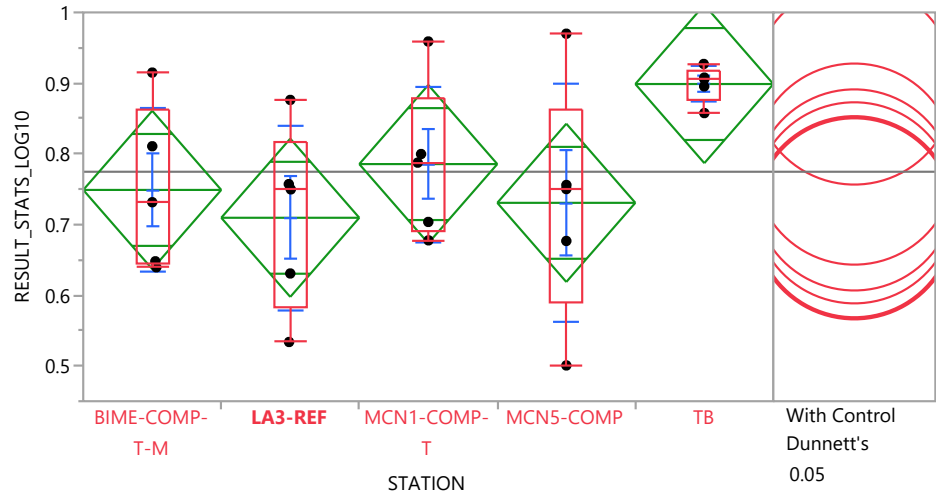
**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB118**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
MCN4-COMP	MCN2-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-0.05476	-0.23414	0.15361
BIMW-COMP-T-M	BIME-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-0.22564	-0.31622	0.97005
BIN-COMP-T	BIME-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-0.28518	-0.45087	0.90580
MCN5-COMP	BIMW-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-0.21984	-1.01581	0.05425
MCN5-COMP	BIME-COMP-T-M	-3.20000	1.914854	-1.67115	0.0947	-0.44424	-1.24337	0.75213
LA3-REF	BIME-COMP-T-M	-3.60000	1.914854	-1.88004	0.0601	-1.11688	-1.30019	0.07410
MCN5-COMP	MCN4-COMP	-3.60000	1.914854	-1.88004	0.0601	-0.36642	-1.15892	0.03857
MCN4-COMP	MCN1-COMP-T	-4.00000	1.914854	-2.08893	0.0367*	-0.17865	-0.38702	0.01268
MCN5-COMP	MCN2-COMP-T	-4.00000	1.914854	-2.08893	0.0367*	-0.39219	-1.18469	0.00060
MCN5-COMP	MCN3-COMP	-4.00000	1.914854	-2.08893	0.0367*	-0.43270	-1.22520	0.01317
LA3-REF	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.89787	-1.07263	-0.29011
LA3-REF	BIN-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-0.83170	-1.01209	-0.16633
MCN5-COMP	MCN1-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-0.54507	-1.33757	-0.12676



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB119**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.639442	0.639442	0.643698	0.731499	0.862785	0.91489	0.91489
LA3-REF	0.533795	0.533795	0.58225	0.749703	0.816664	0.876218	0.876218
MCN1-COMP-T	0.677561	0.677561	0.690588	0.787491	0.879282	0.958887	0.958887
MCN5-COMP	0.500602	0.500602	0.588648	0.750123	0.862887	0.969898	0.969898
TB	0.857587	0.857587	0.876482	0.905692	0.917438	0.92709	0.92709

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB119**

**Oneway Anova**

**Summary of Fit**

Rsquare	0.279588
Adj Rsquare	0.135506
Root Mean Square Error	0.11999
Mean of Response	0.774638
Observations (or Sum Wgts)	25

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	4	0.11175322	0.027938	1.9405	0.1429
Error	20	0.28795343	0.014398		
C. Total	24	0.39970665			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.748893	0.05366	0.63696	0.8608
LA3-REF	5	0.709506	0.05366	0.59757	0.8214
MCN1-COMP-T	5	0.785446	0.05366	0.67351	0.8974
MCN5-COMP	5	0.730638	0.05366	0.61870	0.8426
TB	5	0.898706	0.05366	0.78677	1.0106

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.748893	0.116021	0.05189	0.60483	0.89295
LA3-REF	5	0.709506	0.131109	0.05863	0.54671	0.87230
MCN1-COMP-T	5	0.785446	0.110254	0.04931	0.64855	0.92234
MCN5-COMP	5	0.730638	0.168885	0.07553	0.52094	0.94034
TB	5	0.898706	0.025684	0.01149	0.86681	0.93060

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.65103	0.05

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB119**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	-0.01	0.0689
MCN1-COMP-T	-0.13	0.7145
BIME-COMP-T-M	-0.16	0.9581
MCN5-COMP	-0.18	0.9956
LA3-REF	-0.2	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

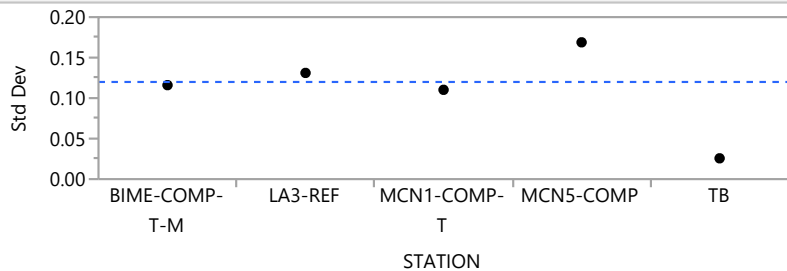
Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	56.000	65.000	11.2000	-0.577
LA3-REF	5	46.000	65.000	9.2000	-1.257
MCN1-COMP-T	5	68.000	65.000	13.6000	0.170
MCN5-COMP	5	55.000	65.000	11.0000	-0.645
TB	5	100.000	65.000	20.0000	2.344

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
6.5575	4	0.1612

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1160211	0.0911138	0.0876350
LA3-REF	5	0.1311094	0.1018048	0.0937654
MCN1-COMP-T	5	0.1102542	0.0758866	0.0754776
MCN5-COMP	5	0.1688849	0.1135923	0.1096954
TB	5	0.0256844	0.0177796	0.0163824

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB119**

**Tests that the Variances are Equal**

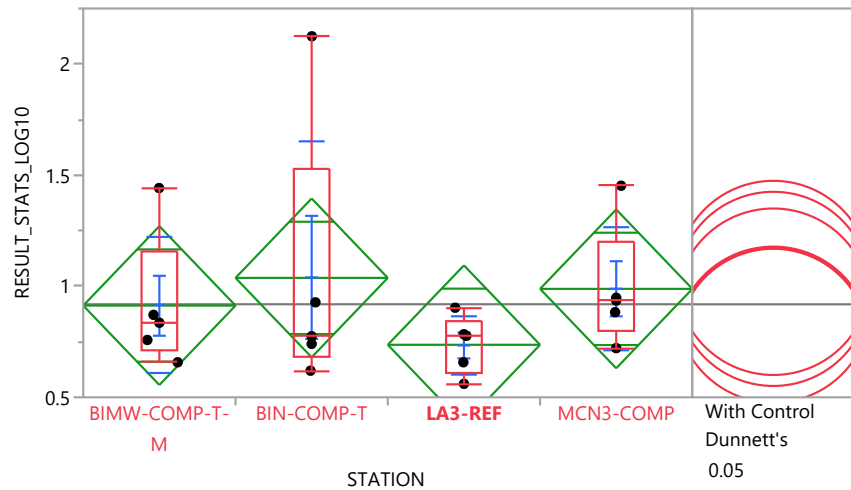
Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	0.8806	4	20	0.4932
Brown-Forsythe	1.0088	4	20	0.4264
Levene	1.4077	4	20	0.2676
Bartlett	2.2352	4	.	0.0626

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*		Alpha							
1.95996		0.05							
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
TB	LA3-REF	4.40000	1.914854	2.29783	0.0216*	0.158082	0.019158	0.3739900	
TB	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	0.174193	-0.019514	0.2791370	
TB	MCN1-COMP-T	2.80000	1.914854	1.46225	0.1437	0.120294	-0.063511	0.2302240	
TB	MCN5-COMP	2.80000	1.914854	1.46225	0.1437	0.157662	-0.074522	0.4071830	
MCN1-COMP-T	LA3-REF	1.60000	1.914854	0.83557	0.4034	0.049974	-0.172603	0.3281820	
MCN1-COMP-T	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.043997	-0.211275	0.3109340	
MCN5-COMP	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.018624	-0.310078	0.3219450	
MCN5-COMP	LA3-REF	0.00000	1.914854	0.00000	1.0000	0.000420	-0.256507	0.3391930	
LA3-REF	BIME-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.038672	-0.284185	0.2282650	
MCN5-COMP	MCN1-COMP-T	-1.20000	1.914854	-0.62668	0.5309	-0.037368	-0.299075	0.2662830	

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB123**



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB123**

**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIMW-COMP-T-M	0.657577	0.657577	0.707834	0.835647	1.156491	1.44185	1.44185
BIN-COMP-T	0.619789	0.619789	0.680076	0.774691	1.526195	2.12494	2.12494
LA3-REF	0.560667	0.560667	0.609122	0.776575	0.843536	0.90309	0.90309
MCN3-COMP	0.721246	0.721246	0.802138	0.935542	1.200136	1.4523	1.4523

**Oneway Anova**

**Summary of Fit**

Rsquare	0.102925
Adj Rsquare	-0.06528
Root Mean Square Error	0.376995
Mean of Response	0.918675
Observations (or Sum Wgts)	20

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	3	0.2609054	0.086968	0.6119	0.6170
Error	16	2.2739986	0.142125		
C. Total	19	2.5349040			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIMW-COMP-T-M	5	0.91286	0.16860	0.55545	1.2703
BIN-COMP-T	5	1.03745	0.16860	0.68004	1.3949
LA3-REF	5	0.73638	0.16860	0.37897	1.0938
MCN3-COMP	5	0.98802	0.16860	0.63061	1.3454

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIMW-COMP-T-M	5	0.91286	0.306862	0.13723	0.53184	1.2939
BIN-COMP-T	5	1.03745	0.617754	0.27627	0.27040	1.8045
LA3-REF	5	0.73638	0.131109	0.05863	0.57358	0.8992
MCN3-COMP	5	0.98802	0.274820	0.12290	0.64678	1.3293

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.59232	0.05

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB123**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
BIN-COMP-T	-0.32	0.4664
MCN3-COMP	-0.37	0.5980
BIMW-COMP-T-M	-0.44	0.8019
LA3-REF	-0.62	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

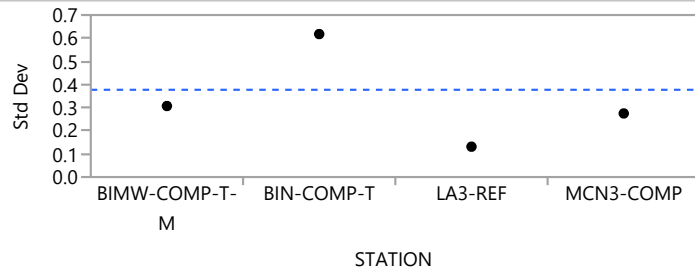
Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIMW-COMP-T-M	5	51.500	52.500	10.3000	-0.044
BIN-COMP-T	5	51.000	52.500	10.2000	-0.087
LA3-REF	5	37.500	52.500	7.5000	-1.266
MCN3-COMP	5	70.000	52.500	14.0000	1.484

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
3.0566	3	0.3830

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIMW-COMP-T-M	5	0.3068617	0.2115963	0.1794626
BIN-COMP-T	5	0.6177537	0.4349974	0.3384474
LA3-REF	5	0.1311094	0.1018048	0.0937654
MCN3-COMP	5	0.2748204	0.1857129	0.1591990

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB123**

**Tests that the Variances are Equal**

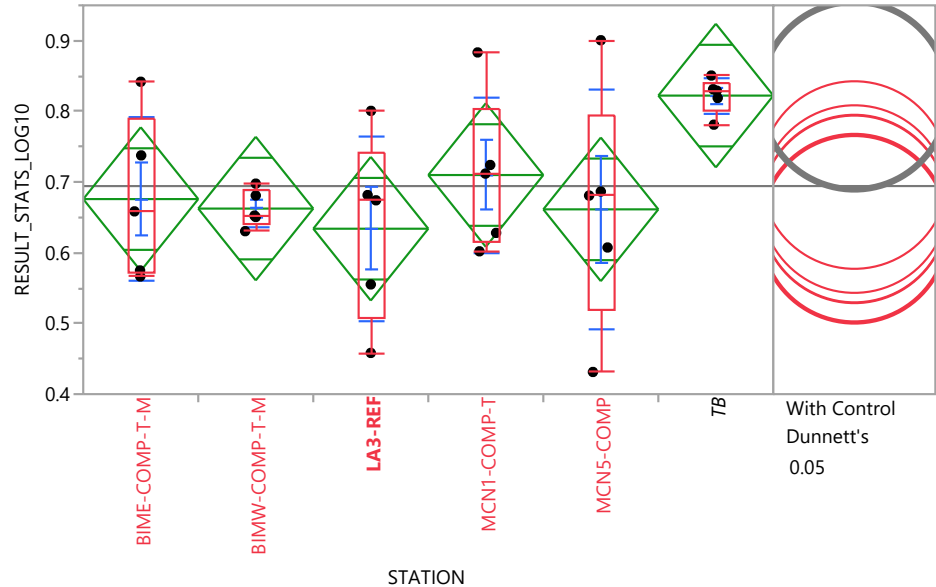
Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	0.9386	3	16	0.4451
Brown-Forsythe	0.4880	3	16	0.6954
Levene	1.8402	3	16	0.1805
Bartlett	2.6187	3	.	0.0491*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*		Alpha							
1.95996		0.05							
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
MCN3-COMP	LA3-REF	3.20000	1.914854	1.67115	0.0947	0.163990	-0.06273	0.794723	
MCN3-COMP	BIMW-COMP-T-M	2.00000	1.914854	1.04447	0.2963	0.076840	-0.55882	0.694209	
MCN3-COMP	BIN-COMP-T	1.20000	1.914854	0.62668	0.5309	0.108339	-1.24191	0.711937	
BIN-COMP-T	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.017728	-0.70149	1.366849	
LA3-REF	BIN-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.082786	-1.46736	0.164192	
LA3-REF	BIMW-COMP-T-M	-1.40000	1.909043	-0.73335	0.4633	-0.094556	-0.78427	0.144999	

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB126**





**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB126**

**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.566484	0.566484	0.57074	0.658541	0.789828	0.841932	0.841932
BIMW-COMP-T-M	0.630513	0.630513	0.640543	0.652551	0.689422	0.697795	0.697795
LA3-REF	0.458294	0.458294	0.506749	0.674202	0.741163	0.800717	0.800717
MCN1-COMP-T	0.60206	0.60206	0.615087	0.711991	0.803782	0.883387	0.883387
MCN5-COMP	0.431364	0.431364	0.51941	0.680884	0.793648	0.90066	0.90066
TB	0.781199	0.781199	0.800093	0.829304	0.84105	0.850702	0.850702

**Oneway Anova**

**Summary of Fit**

Rsquare	0.280727
Adj Rsquare	0.130878
Root Mean Square Error	0.110077
Mean of Response	0.69435
Observations (or Sum Wgts)	30

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	5	0.11350002	0.022700	1.8734	0.1366
Error	24	0.29080816	0.012117		
C. Total	29	0.40430819			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.675935	0.04923	0.57433	0.77754
BIMW-COMP-T-M	5	0.662496	0.04923	0.56089	0.76410
LA3-REF	5	0.634005	0.04923	0.53240	0.73561
MCN1-COMP-T	5	0.709946	0.04923	0.60834	0.81155
MCN5-COMP	5	0.661400	0.04923	0.55980	0.76300
TB	5	0.822318	0.04923	0.72072	0.92392

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.675935	0.116021	0.05189	0.53188	0.81999
BIMW-COMP-T-M	5	0.662496	0.026712	0.01195	0.62933	0.69566
LA3-REF	5	0.634005	0.131109	0.05863	0.47121	0.79680
MCN1-COMP-T	5	0.709946	0.110255	0.04931	0.57305	0.84684
MCN5-COMP	5	0.661400	0.168885	0.07553	0.45170	0.87110
TB	5	0.822318	0.025684	0.01149	0.79043	0.85421

**Means Comparisons**

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB126**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.69532	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	0.001	0.0490*
MCN1-COMP-T	-0.11	0.7146
BIME-COMP-T-M	-0.15	0.9607
BIMW-COMP-T-M	-0.16	0.9924
MCN5-COMP	-0.16	0.9936
LA3-REF	-0.19	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	69.000	77.500	13.8000	-0.445
BIMW-COMP-T-M	5	63.000	77.500	12.6000	-0.779
LA3-REF	5	57.000	77.500	11.4000	-1.113
MCN1-COMP-T	5	82.000	77.500	16.4000	0.223
MCN5-COMP	5	69.000	77.500	13.8000	-0.445
TB	5	125.000	77.500	25.0000	2.615

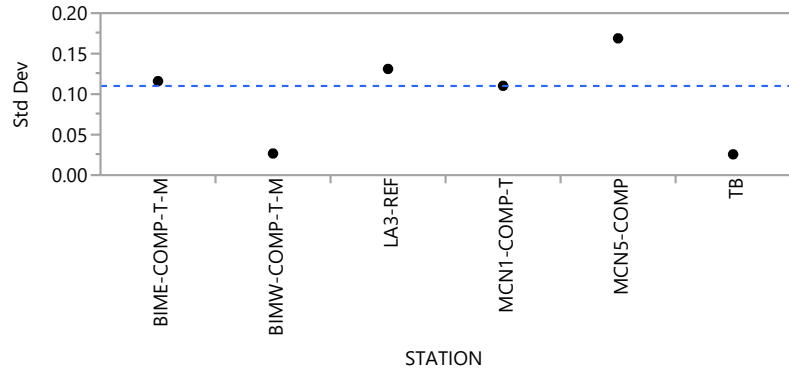
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
7.8748	5	0.1633

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB126**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1160212	0.0911140	0.0876352
BIMW-COMP-T-M	5	0.0267125	0.0215408	0.0195518
LA3-REF	5	0.1311094	0.1018048	0.0937654
MCN1-COMP-T	5	0.1102546	0.0758869	0.0754778
MCN5-COMP	5	0.1688849	0.1135922	0.1096954
TB	5	0.0256844	0.0177798	0.0163826

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.1733	5	24	0.3511
Brown-Forsythe	1.4629	5	24	0.2387
Levene	2.0267	5	24	0.1109
Bartlett	3.2289	5	.	0.0064*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*	Alpha
1.95996	0.05

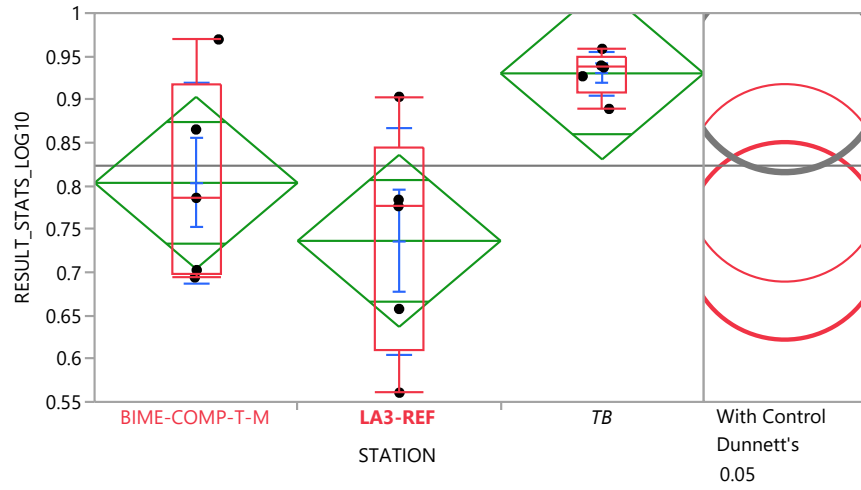
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.166436	0.100150	0.2008840
TB	LA3-REF	4.40000	1.914854	2.29783	0.0216*	0.157195	0.018270	0.3731030
TB	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	0.170763	-0.022945	0.2757070
TB	MCN1-COMP-T	2.80000	1.914854	1.46225	0.1437	0.119406	-0.064400	0.2293370
TB	MCN5-COMP	2.80000	1.914854	1.46225	0.1437	0.150513	-0.081673	0.4000330
MCN1-COMP-T	LA3-REF	1.60000	1.914854	0.83557	0.4034	0.049974	-0.172603	0.3281830
MCN1-COMP-T	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.041455	-0.213818	0.3083920
MCN1-COMP-T	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.030942	-0.078989	0.2328150
MCN5-COMP	LA3-REF	0.40000	1.914854	0.20889	0.8345	0.006682	-0.250244	0.3454560
BIMW-COMP-T-M	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.005990	-0.191360	0.1228000

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB126**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
LA3-REF	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.006847	-0.222755	0.1501450
MCN5-COMP	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.022343	-0.306359	0.3256650
MCN5-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.000165	-0.249685	0.2500880
LA3-REF	BIME-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.041215	-0.286728	0.2257220
MCN5-COMP	MCN1-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.031107	-0.292812	0.2725460

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB126**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.694063	0.694063	0.698319	0.78612	0.917406	0.969511	0.969511
LA3-REF	0.560667	0.560667	0.609122	0.776575	0.843536	0.90309	0.90309
TB	0.889104	0.889104	0.907999	0.937209	0.948955	0.958607	0.958607

**Oneway Anova**

**Summary of Fit**

Rsquare	0.436202
Adj Rsquare	0.342236
Root Mean Square Error	0.10216
Mean of Response	0.823372
Observations (or Sum Wgts)	15

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB128**

**Oneway Anova**

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	2	0.09689720	0.048449	4.6421	0.0321*
Error	12	0.12524103	0.010437		
C. Total	14	0.22213823			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.803514	0.04569	0.70397	0.9031
LA3-REF	5	0.736378	0.04569	0.63683	0.8359
TB	5	0.930223	0.04569	0.83068	1.0298

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.803514	0.116021	0.05189	0.65945	0.94757
LA3-REF	5	0.736378	0.131109	0.05863	0.57358	0.89917
TB	5	0.930223	0.025684	0.01149	0.89833	0.96211

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.50237	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	0.032	0.0203*
BIME-COMP-T-M	-0.09	0.4975
LA3-REF	-0.16	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	37.000	40.000	7.4000	-0.306
LA3-REF	5	24.000	40.000	4.8000	-1.898
TB	5	59.000	40.000	11.8000	2.266

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB128**

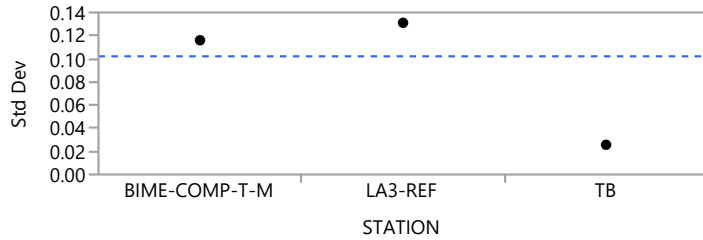
**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
6.2600	2	0.0437*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1160211	0.0911138	0.0876350
LA3-REF	5	0.1311094	0.1018048	0.0937654
TB	5	0.0256844	0.0177796	0.0163824

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.6698	2	12	0.2292
Brown-Forsythe	2.1611	2	12	0.1579
Levene	4.1385	2	12	0.0430*
Bartlett	3.6142	2	.	0.0269*

Warning: Small sample sizes. Use Caution.

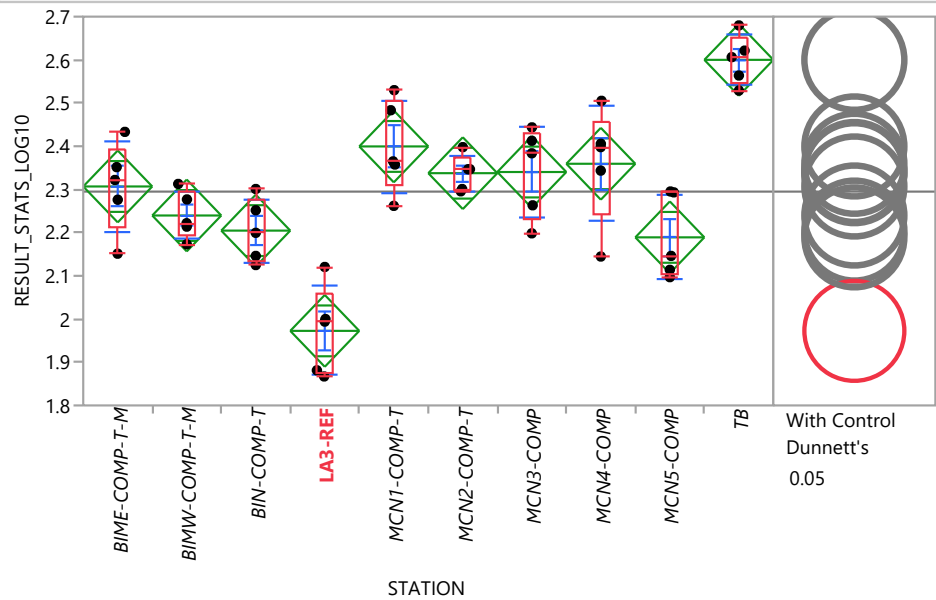
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	LA3-REF	4.40000	1.914854	2.29783	0.0216*	0.162727	0.023803	0.3786350
TB	BIME-COMP-T-M	2.80000	1.914854	1.46225	0.1437	0.151089	-0.042618	0.2560330
LA3-REF	BIME-COMP-T-M	-1.60000	1.914854	-0.83557	0.4034	-0.066421	-0.311934	0.2005160



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB132/153**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	2.15127	2.15127	2.21374	2.32196	2.392455	2.43327	2.43327
BIMW-COMP-T-M	2.173	2.173	2.19344	2.22185	2.294835	2.31277	2.31277
BIN-COMP-T	2.12494	2.12494	2.135535	2.19957	2.27642	2.30103	2.30103
LA3-REF	1.86709	1.86709	1.8742	1.99409	2.060285	2.12057	2.12057
MCN1-COMP-T	2.26197	2.26197	2.30981	2.36494	2.5066	2.52983	2.52983
MCN2-COMP-T	2.29563	2.29563	2.29833	2.34679	2.372365	2.39794	2.39794
MCN3-COMP	2.19837	2.19837	2.230805	2.3837	2.42818	2.4437	2.4437
MCN4-COMP	2.14468	2.14468	2.24413	2.39794	2.45546	2.50515	2.50515
MCN5-COMP	2.09691	2.09691	2.105425	2.14613	2.29424	2.29528	2.29528
TB	2.52895	2.52895	2.54633	2.60622	2.650515	2.67966	2.67966

**Oneway Anova**

**Summary of Fit**

Rsquare	0.778815
Adj Rsquare	0.729049
Root Mean Square Error	0.09201
Mean of Response	2.294988
Observations (or Sum Wgts)	50

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB132/153**

**Oneway Anova**

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	9	1.1923757	0.132486	15.6494	<.0001*
Error	40	0.3386364	0.008466		
C. Total	49	1.5310121			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	2.30687	0.04115	2.2237	2.3900
BIMW-COMP-T-M	5	2.23968	0.04115	2.1565	2.3228
BIN-COMP-T	5	2.20470	0.04115	2.1215	2.2879
LA3-REF	5	1.97261	0.04115	1.8894	2.0558
MCN1-COMP-T	5	2.39955	0.04115	2.3164	2.4827
MCN2-COMP-T	5	2.33764	0.04115	2.2545	2.4208
MCN3-COMP	5	2.34033	0.04115	2.2572	2.4235
MCN4-COMP	5	2.35942	0.04115	2.2763	2.4426
MCN5-COMP	5	2.18909	0.04115	2.1059	2.2723
TB	5	2.59998	0.04115	2.5168	2.6831

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	2.30687	0.104116	0.04656	2.1776	2.4361
BIMW-COMP-T-M	5	2.23968	0.055130	0.02465	2.1712	2.3081
BIN-COMP-T	5	2.20470	0.073002	0.03265	2.1141	2.2953
LA3-REF	5	1.97261	0.103167	0.04614	1.8445	2.1007
MCN1-COMP-T	5	2.39955	0.107099	0.04790	2.2666	2.5325
MCN2-COMP-T	5	2.33764	0.041559	0.01859	2.2860	2.3892
MCN3-COMP	5	2.34033	0.104754	0.04685	2.2103	2.4704
MCN4-COMP	5	2.35942	0.133448	0.05968	2.1937	2.5251
MCN5-COMP	5	2.18909	0.097603	0.04365	2.0679	2.3103
TB	5	2.59998	0.057459	0.02570	2.5286	2.6713

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB132/153**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	0.464	<.0001*
MCN1-COMP-T	0.263	<.0001*
MCN4-COMP	0.223	<.0001*
MCN3-COMP	0.204	<.0001*
MCN2-COMP-T	0.201	<.0001*
BIME-COMP-T-M	0.171	<.0001*
BIMW-COMP-T-M	0.103	0.0004*
BIN-COMP-T	0.068	0.0022*
MCN5-COMP	0.053	0.0047*
LA3-REF	-0.16	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	136.000	127.500	27.2000	0.259
BIMW-COMP-T-M	5	96.000	127.500	19.2000	-1.003
BIN-COMP-T	5	78.000	127.500	15.6000	-1.585
LA3-REF	5	17.000	127.500	3.4000	-3.558
MCN1-COMP-T	5	177.000	127.500	35.4000	1.585
MCN2-COMP-T	5	152.000	127.500	30.4000	0.776
MCN3-COMP	5	152.000	127.500	30.4000	0.776
MCN4-COMP	5	159.500	127.500	31.9000	1.019
MCN5-COMP	5	68.500	127.500	13.7000	-1.892
TB	5	239.000	127.500	47.8000	3.590

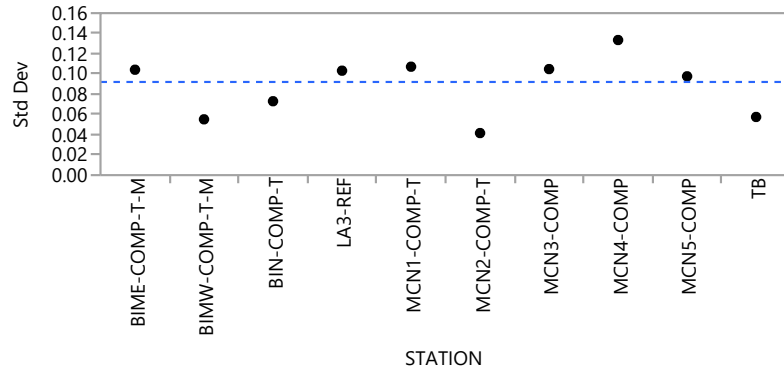
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
34.1835	9	<.0001*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB132/153**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1041158	0.0745040	0.0714860
BIMW-COMP-T-M	5	0.0551300	0.0441240	0.0405580
BIN-COMP-T	5	0.0730021	0.0573792	0.0563540
LA3-REF	5	0.1031672	0.0787296	0.0744340
MCN1-COMP-T	5	0.1070985	0.0856384	0.0787160
MCN2-COMP-T	5	0.0415592	0.0314448	0.0296140
MCN3-COMP	5	0.1047538	0.0876232	0.0789500
MCN4-COMP	5	0.1334480	0.0922352	0.0845320
MCN5-COMP	5	0.0976031	0.0841184	0.0755260
TB	5	0.0574590	0.0429216	0.0416740

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	0.7832	9	40	0.6329
Brown-Forsythe	0.4791	9	40	0.8799
Levene	1.1164	9	40	0.3739
Bartlett	0.8621	9	.	0.5586

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*	Alpha
1.95996	0.05

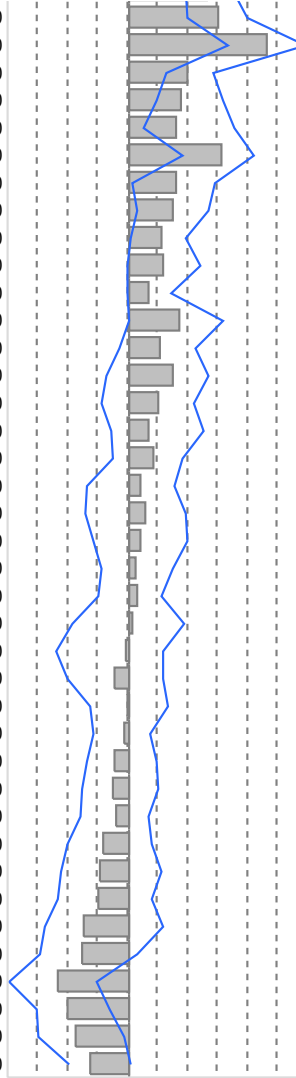
  

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
MCN1-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.409260	0.237080	0.648520
MCN2-COMP-T	LA3-REF	4.80000	1.909043	2.51435	0.0119*	0.352700	0.180460	0.516630
MCN3-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.383700	0.142670	0.562390
MCN4-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.403850	0.144680	0.623840
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.284260	0.130440	0.470100
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.355950	0.250940	0.465780

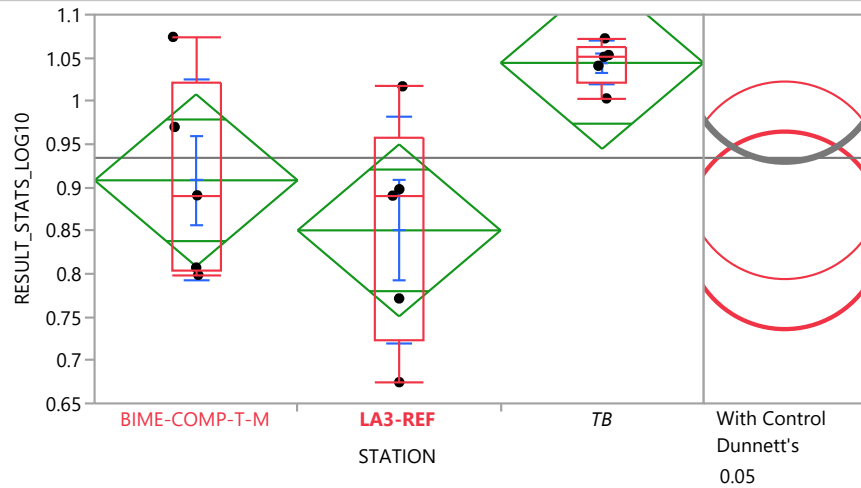
**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB132/153**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.404010	0.262680	0.533530
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.627280	0.443140	0.798350
TB	MCN2-COMP-T	4.80000	1.909043	2.51435	0.0119*	0.262680	0.165770	0.378630
TB	MCN3-COMP	4.80000	1.914854	2.50672	0.0122*	0.237670	0.116290	0.423000
TB	MCN4-COMP	4.80000	1.914854	2.50672	0.0122*	0.215600	0.058560	0.476690
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	0.417580	0.235750	0.565720
MCN1-COMP-T	BIN-COMP-T	4.40000	1.914854	2.29783	0.0216*	0.211520	0.010160	0.383700
TB	MCN1-COMP-T	4.40000	1.914854	2.29783	0.0216*	0.198770	0.033880	0.359400
MCN2-COMP-T	BIN-COMP-T	4.20000	1.903214	2.20679	0.0273*	0.147220	0.000000	0.251810
MCN1-COMP-T	BIMW-COMP-T-M	4.00000	1.914854	2.08893	0.0367*	0.151060	-0.014930	0.315950
MCN2-COMP-T	BIMW-COMP-T-M	4.00000	1.909043	2.09529	0.0361*	0.087150	-0.011740	0.184060
MCN5-COMP	LA3-REF	4.00000	1.914854	2.08893	0.0367*	0.229820	-0.006630	0.426110
MCN3-COMP	BIN-COMP-T	3.20000	1.914854	1.67115	0.0947	0.138300	-0.053440	0.297570
MCN4-COMP	BIN-COMP-T	3.20000	1.914854	1.67115	0.0947	0.197450	-0.107130	0.359020
MCN4-COMP	BIMW-COMP-T-M	2.80000	1.914854	1.46225	0.1437	0.129700	-0.132220	0.291270
MCN1-COMP-T	BIME-COMP-T-M	2.40000	1.914854	1.25336	0.2101	0.088730	-0.089670	0.332100
MCN3-COMP	BIMW-COMP-T-M	2.40000	1.914854	1.25336	0.2101	0.106800	-0.078530	0.239660
MCN4-COMP	MCN2-COMP-T	1.40000	1.903214	0.73560	0.4620	0.051150	-0.202110	0.204120
MCN4-COMP	BIME-COMP-T-M	1.20000	1.914854	0.62668	0.5309	0.067370	-0.206960	0.254500
MCN3-COMP	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.047100	-0.170030	0.261390
MCN2-COMP-T	BIME-COMP-T-M	0.40000	1.909043	0.20953	0.8340	0.024820	-0.132240	0.195520
MCN3-COMP	MCN2-COMP-T	0.40000	1.909043	0.20953	0.8340	0.036910	-0.148420	0.142670
MCN4-COMP	MCN3-COMP	0.00000	1.914854	0.00000	1.0000	0.014240	-0.267980	0.241910
MCN4-COMP	MCN1-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.021360	-0.338690	0.147500
MCN3-COMP	MCN1-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.070710	-0.285000	0.150690
MCN5-COMP	BIN-COMP-T	-1.00000	1.909043	-0.52382	0.6004	-0.011000	-0.187090	0.168260
BIN-COMP-T	BIMW-COMP-T-M	-1.60000	1.914854	-0.83557	0.4034	-0.026870	-0.166640	0.087150
MCN5-COMP	BIMW-COMP-T-M	-1.60000	1.914854	-0.83557	0.4034	-0.067750	-0.198830	0.120200
BIMW-COMP-T-M	BIME-COMP-T-M	-2.00000	1.914854	-1.04447	0.2963	-0.074740	-0.219390	0.125630
MCN2-COMP-T	MCN1-COMP-T	-2.00000	1.909043	-1.04765	0.2948	-0.062020	-0.228800	0.084820
BIN-COMP-T	BIME-COMP-T-M	-3.20000	1.914854	-1.67115	0.0947	-0.122390	-0.287140	0.100540
MCN5-COMP	BIME-COMP-T-M	-3.20000	1.914854	-1.67115	0.0947	-0.137990	-0.319330	0.141930
MCN5-COMP	MCN3-COMP	-3.20000	1.914854	-1.67115	0.0947	-0.148420	-0.329760	0.094830
MCN5-COMP	MCN4-COMP	-3.60000	1.914854	-1.88004	0.0601	-0.209870	-0.391210	0.148520
MCN5-COMP	MCN1-COMP-T	-4.00000	1.914854	-2.08893	0.0367*	-0.218810	-0.415890	0.031230
LA3-REF	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.327870	-0.551960	-0.151270
LA3-REF	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.282810	-0.431460	-0.093310
LA3-REF	BIN-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-0.251810	-0.419720	-0.025560
MCN5-COMP	MCN2-COMP-T	-4.80000	1.909043	-2.51435	0.0119*	-0.181690	-0.284000	-0.002430



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB137**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.798798	0.798798	0.803054	0.890856	1.022144	1.07425	1.07425
LA3-REF	0.674611	0.674611	0.723066	0.890518	0.957477	1.01703	1.01703
TB	1.00305	1.00305	1.021945	1.05115	1.0629	1.07255	1.07255

**Oneway Anova**

**Summary of Fit**

Rsquare	0.441516
Adj Rsquare	0.348435
Root Mean Square Error	0.10216
Mean of Response	0.934246
Observations (or Sum Wgts)	15

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	2	0.09901033	0.049505	4.7434	0.0303*
Error	12	0.12524052	0.010437		
C. Total	14	0.22425086			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.90825	0.04569	0.80871	1.0078
LA3-REF	5	0.85032	0.04569	0.75078	0.9499
TB	5	1.04417	0.04569	0.94462	1.1437

Std Error uses a pooled estimate of error variance

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB137**

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.90825	0.116022	0.05189	0.7642	1.0523
LA3-REF	5	0.85032	0.131108	0.05863	0.6875	1.0131
TB	5	1.04417	0.025683	0.01149	1.0123	1.0761

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.50237	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	0.032	0.0203*
BIME-COMP-T-M	-0.1	0.5860
LA3-REF	-0.16	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

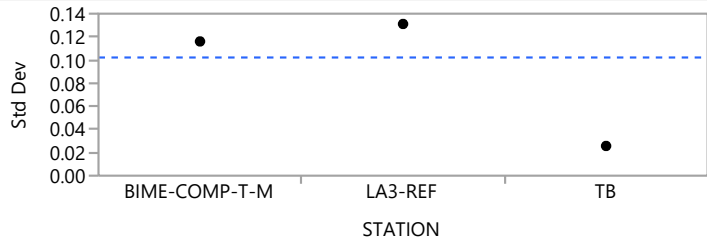
Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	36.000	40.000	7.2000	-0.429
LA3-REF	5	25.000	40.000	5.0000	-1.776
TB	5	59.000	40.000	11.8000	2.266

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
6.0200	2	0.0493*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB137**

**Tests that the Variances are Equal**

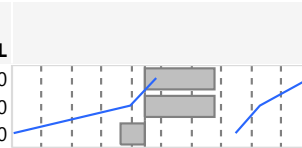
Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1160224	0.0911146	0.0876358
LA3-REF	5	0.1311080	0.1018038	0.0937644
TB	5	0.0256833	0.0177784	0.0163820

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[5]	1.6698	2	12	0.2292
Brown-Forsythe	2.1611	2	12	0.1579
Levene	4.1386	2	12	0.0430*
Bartlett	3.6143	2	.	0.0269*

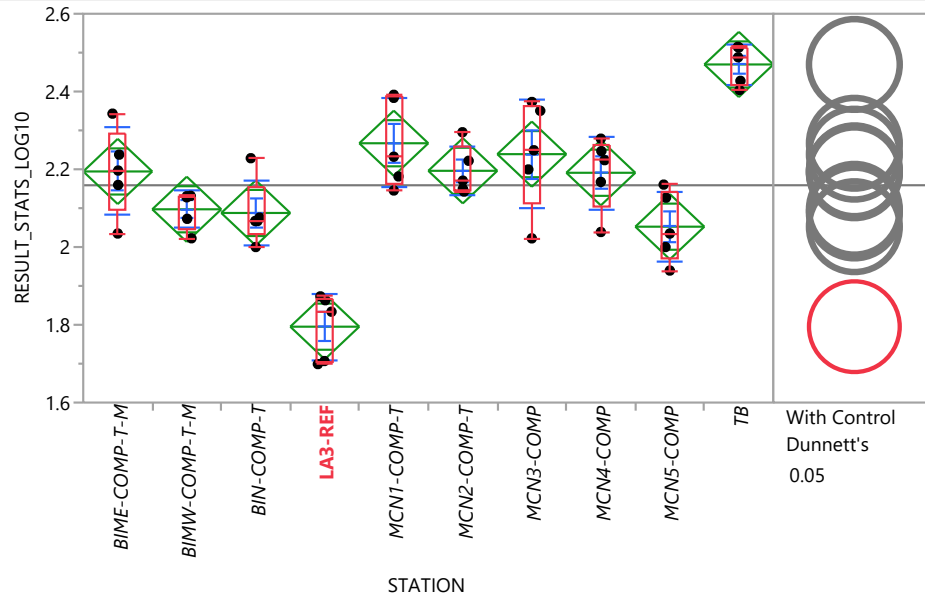
Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	LA3-REF	4.40000	1.914854	2.29783	0.0216*	0.162732	0.023810	0.3786390
TB	BIME-COMP-T-M	2.80000	1.914854	1.46225	0.1437	0.160294	-0.033410	0.2652400
LA3-REF	BIME-COMP-T-M	-1.20000	1.914854	-0.62668	0.5309	-0.057220	-0.302729	0.2097200



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB138/158**



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB138/158**

**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	2.03476	2.03476	2.09723	2.19674	2.290365	2.34309	2.34309
BIMW-COMP-T-M	2.02251	2.02251	2.04753	2.1279	2.13122	2.13167	2.13167
BIN-COMP-T	2	2	2.033475	2.06695	2.1521	2.22848	2.22848
LA3-REF	1.69897	1.69897	1.702885	1.83367	1.868145	1.87313	1.87313
MCN1-COMP-T	2.14546	2.14546	2.163505	2.23231	2.38765	2.3916	2.3916
MCN2-COMP-T	2.14267	2.14267	2.146215	2.1707	2.258565	2.29528	2.29528
MCN3-COMP	2.02228	2.02228	2.110925	2.249	2.36182	2.37312	2.37312
MCN4-COMP	2.03863	2.03863	2.10306	2.22343	2.26271	2.27875	2.27875
MCN5-COMP	1.93952	1.93952	1.96976	2.03476	2.143725	2.16058	2.16058
TB	2.40401	2.40401	2.415755	2.48812	2.51412	2.51491	2.51491

**Oneway Anova**

**Summary of Fit**

Rsquare	0.797171
Adj Rsquare	0.751535
Root Mean Square Error	0.092809
Mean of Response	2.158902
Observations (or Sum Wgts)	50

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	9	1.3541501	0.150461	17.4679	<.0001*
Error	40	0.3445437	0.008614		
C. Total	49	1.6986938			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	2.19439	0.04151	2.1105	2.2783
BIMW-COMP-T-M	5	2.09708	0.04151	2.0132	2.1810
BIN-COMP-T	5	2.08762	0.04151	2.0037	2.1715
LA3-REF	5	1.79515	0.04151	1.7113	1.8790
MCN1-COMP-T	5	2.26692	0.04151	2.1830	2.3508
MCN2-COMP-T	5	2.19605	0.04151	2.1122	2.2799
MCN3-COMP	5	2.23890	0.04151	2.1550	2.3228
MCN4-COMP	5	2.19099	0.04151	2.1071	2.2749
MCN5-COMP	5	2.05235	0.04151	1.9685	2.1362
TB	5	2.46957	0.04151	2.3857	2.5535

Std Error uses a pooled estimate of error variance

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB138/158**

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	2.19439	0.112553	0.05034	2.0546	2.3341
BIMW-COMP-T-M	5	2.09708	0.048590	0.02173	2.0367	2.1574
BIN-COMP-T	5	2.08762	0.084432	0.03776	1.9828	2.1925
LA3-REF	5	1.79515	0.085508	0.03824	1.6890	1.9013
MCN1-COMP-T	5	2.26692	0.114478	0.05120	2.1248	2.4091
MCN2-COMP-T	5	2.19605	0.063536	0.02841	2.1172	2.2749
MCN3-COMP	5	2.23890	0.140577	0.06287	2.0643	2.4134
MCN4-COMP	5	2.19099	0.094367	0.04220	2.0738	2.3082
MCN5-COMP	5	2.05235	0.090895	0.04065	1.9395	2.1652
TB	5	2.46957	0.050948	0.02278	2.4063	2.5328

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	0.509	<.0001*
MCN1-COMP-T	0.307	<.0001*
MCN3-COMP	0.279	<.0001*
MCN2-COMP-T	0.236	<.0001*
BIME-COMP-T-M	0.234	<.0001*
MCN4-COMP	0.231	<.0001*
BIMW-COMP-T-M	0.137	<.0001*
BIN-COMP-T	0.127	0.0001*
MCN5-COMP	0.092	0.0007*
LA3-REF	-0.17	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	143.500	127.500	28.7000	0.501
BIMW-COMP-T-M	5	86.000	127.500	17.2000	-1.326
BIN-COMP-T	5	87.500	127.500	17.5000	-1.277
LA3-REF	5	15.000	127.500	3.0000	-3.622
MCN1-COMP-T	5	176.000	127.500	35.2000	1.552
MCN2-COMP-T	5	146.000	127.500	29.2000	0.582



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB138/158**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

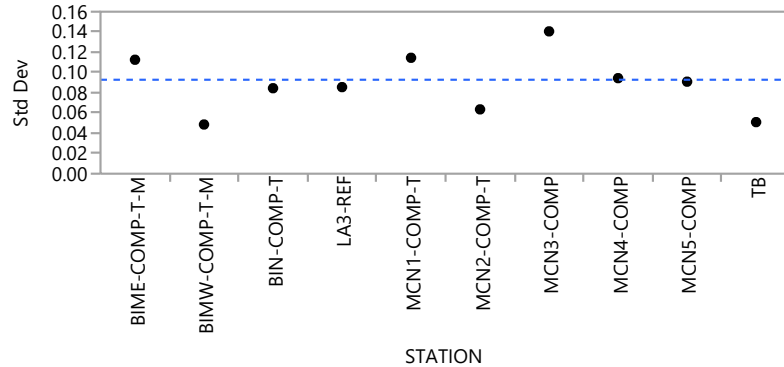
Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
MCN3-COMP	5	163.000	127.500	32.6000	1.132
MCN4-COMP	5	149.000	127.500	29.8000	0.679
MCN5-COMP	5	69.000	127.500	13.8000	-1.876
TB	5	240.000	127.500	48.0000	3.622

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
34.5744	9	<.0001*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1125532	0.0777248	0.0772540
BIMW-COMP-T-M	5	0.0485895	0.0396400	0.0334760
BIN-COMP-T	5	0.0844318	0.0563440	0.0474500
LA3-REF	5	0.0855078	0.0738088	0.0661040
MCN1-COMP-T	5	0.1144783	0.0965808	0.0896580
MCN2-COMP-T	5	0.0635355	0.0500104	0.0449400
MCN3-COMP	5	0.1405766	0.1023784	0.1003580
MCN4-COMP	5	0.0943666	0.0703472	0.0638600
MCN5-COMP	5	0.0908949	0.0731032	0.0695860
TB	5	0.0509479	0.0430552	0.0393460

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB138/158**

**Tests that the Variances are Equal**

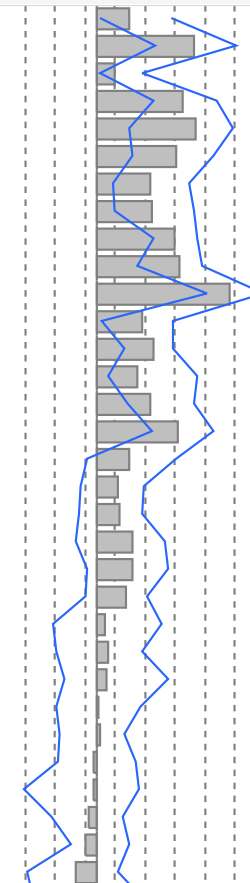
Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	0.8810	9	40	0.5500
Brown-Forsythe	0.6230	9	40	0.7703
Levene	0.9866	9	40	0.4660
Bartlett	0.8050	9	.	0.6116

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q\* Alpha  
1.95996 0.05

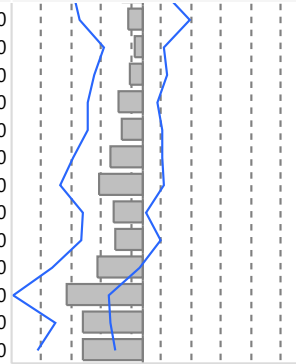
Level	- Level	Score Mean	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
MCN1-COMP-T	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.159040	0.014690	0.361190
MCN1-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.482580	0.282300	0.684800
MCN2-COMP-T	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.091080	0.011900	0.222730
MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.422150	0.276630	0.588480
MCN3-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.487360	0.159120	0.666320
MCN4-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.389760	0.175470	0.571950
MCN5-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.263710	0.076360	0.453780
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.275690	0.084410	0.478570
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.381660	0.273240	0.490820
TB	BIN-COMP-T	4.80000	1.909043	2.51435	0.0119*	0.412400	0.199020	0.513330
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.654450	0.540850	0.814360
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.222460	0.020310	0.367870
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.277740	0.132220	0.370660
TB	MCN3-COMP	4.80000	1.914854	2.50672	0.0122*	0.204440	0.053490	0.491050
TB	MCN4-COMP	4.80000	1.914854	2.50672	0.0122*	0.264690	0.148750	0.474700
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	0.404010	0.266920	0.573810
MCN1-COMP-T	BIN-COMP-T	4.00000	1.909043	2.09529	0.0361*	0.163120	-0.046930	0.383700
MCN2-COMP-T	BIN-COMP-T	3.20000	1.909043	1.67623	0.0937	0.103750	-0.078720	0.228330
MCN4-COMP	BIMW-COMP-T-M	3.20000	1.914854	1.67115	0.0947	0.115000	-0.092140	0.224160
MCN3-COMP	BIMW-COMP-T-M	2.80000	1.914854	1.46225	0.1437	0.176450	-0.108490	0.328010
MCN3-COMP	BIN-COMP-T	2.80000	1.909043	1.46670	0.1425	0.173280	-0.053440	0.350520
MCN4-COMP	BIN-COMP-T	2.40000	1.909043	1.25717	0.2087	0.147710	-0.060990	0.246670
MCN3-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.039870	-0.215360	0.315760
MCN3-COMP	MCN2-COMP-T	1.60000	1.914854	0.83557	0.4034	0.056900	-0.199570	0.223360
MCN1-COMP-T	BIME-COMP-T-M	1.20000	1.914854	0.62668	0.5309	0.048510	-0.161540	0.348940
MCN4-COMP	BIME-COMP-T-M	0.40000	1.914854	0.20889	0.8345	0.007790	-0.199010	0.211910
MCN4-COMP	MCN2-COMP-T	0.40000	1.914854	0.20889	0.8345	0.017730	-0.183220	0.128990
MCN2-COMP-T	BIME-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-0.015790	-0.193330	0.187090
MCN3-COMP	MCN1-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.018480	-0.361420	0.205060
MCN5-COMP	BIN-COMP-T	-1.00000	1.903214	-0.52543	0.5993	-0.040960	-0.228480	0.126870
BIN-COMP-T	BIMW-COMP-T-M	-1.20000	1.909043	-0.62859	0.5296	-0.052180	-0.130770	0.155930
MCN4-COMP	MCN1-COMP-T	-1.20000	1.914854	-0.62668	0.5309	-0.104950	-0.345070	0.101210



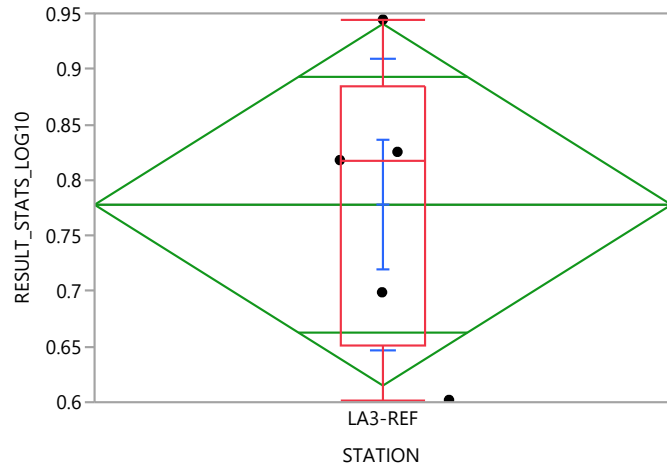
**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB138/158**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
MCN4-COMP	MCN3-COMP	-1.20000	1.914854	-0.62668	0.5309	-0.071770	-0.311890	0.224390
MCN5-COMP	BIMW-COMP-T-M	-1.60000	1.914854	-0.83557	0.4034	-0.037790	-0.191250	0.104360
MCN2-COMP-T	MCN1-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-0.061610	-0.241840	0.113730
BIN-COMP-T	BIME-COMP-T-M	-2.40000	1.909043	-1.25717	0.2087	-0.121020	-0.276140	0.068780
BIMW-COMP-T-M	BIME-COMP-T-M	-3.20000	1.914854	-1.67115	0.0947	-0.105970	-0.270540	0.096010
MCN5-COMP	BIME-COMP-T-M	-3.40000	1.909043	-1.78100	0.0749	-0.159700	-0.343090	0.092110
MCN5-COMP	MCN3-COMP	-3.60000	1.914854	-1.88004	0.0601	-0.212540	-0.411000	0.104590
MCN5-COMP	MCN2-COMP-T	-4.00000	1.914854	-2.08893	0.0367*	-0.142670	-0.295280	0.010820
MCN5-COMP	MCN4-COMP	-4.00000	1.914854	-2.08893	0.0367*	-0.132730	-0.307150	0.088240
MCN5-COMP	MCN1-COMP-T	-4.40000	1.914854	-2.29783	0.0216*	-0.223120	-0.444180	-0.018590
LA3-REF	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.374480	-0.636290	-0.171600
LA3-REF	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.294230	-0.431800	-0.159350
LA3-REF	BIN-COMP-T	-4.80000	1.909043	-2.51435	0.0119*	-0.293200	-0.521680	-0.136840



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB141**

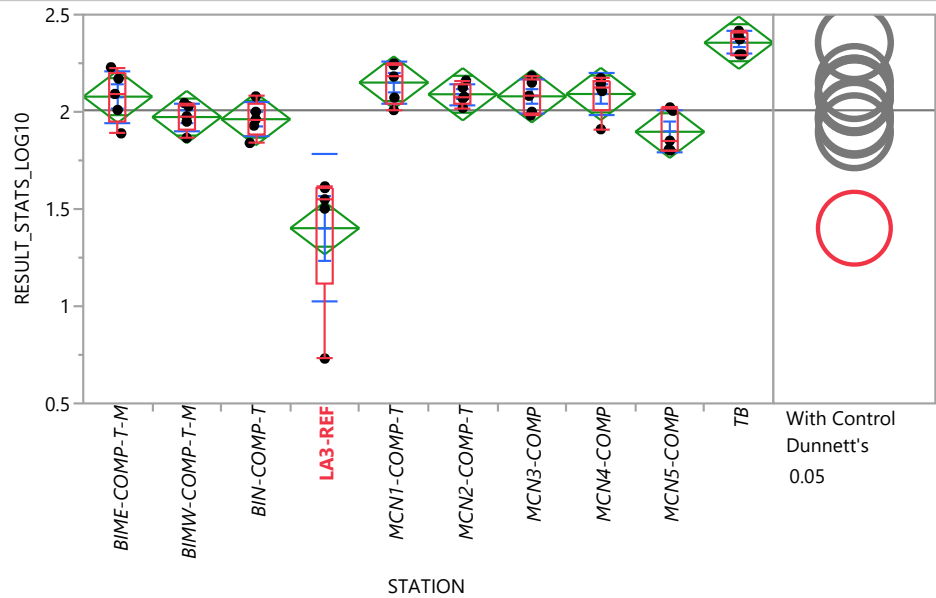


**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
LA3-REF	0.60206	0.60206	0.650515	0.817968	0.884928	0.944483	0.944483



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB149**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	1.8893	1.8893	1.949425	2.092	2.199925	2.22915	2.22915
BIMW-COMP-T-M	1.86572	1.86572	1.907775	1.97677	2.03678	2.04516	2.04516
BIN-COMP-T	1.8399	1.8399	1.88466	1.96221	2.03959	2.07918	2.07918
LA3-REF	0.730817	0.730817	1.116749	1.54967	1.612095	1.6163	1.6163
MCN1-COMP-T	2.00924	2.00924	2.0411	2.18155	2.244665	2.249	2.249
MCN2-COMP-T	2.01997	2.01997	2.044605	2.07717	2.14276	2.16058	2.16058
MCN3-COMP	1.98132	1.98132	1.99066	2.08267	2.167225	2.18406	2.18406
MCN4-COMP	1.9106	1.9106	2.008805	2.12173	2.15979	2.17345	2.17345
MCN5-COMP	1.80163	1.80163	1.803905	1.85126	2.01417	2.02266	2.02266
TB	2.29487	2.29487	2.29487	2.37358	2.40718	2.41642	2.41642

**Oneway Anova**

**Summary of Fit**

Rsquare	0.755725
Adj Rsquare	0.700763
Root Mean Square Error	0.148853
Mean of Response	2.008042
Observations (or Sum Wgts)	50

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB149**

**Oneway Anova**

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	9	2.7419621	0.304662	13.7500	<.0001*
Error	40	0.8862914	0.022157		
C. Total	49	3.6282535			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	2.07814	0.06657	1.9436	2.2127
BIMW-COMP-T-M	5	1.97318	0.06657	1.8386	2.1077
BIN-COMP-T	5	1.96214	0.06657	1.8276	2.0967
LA3-REF	5	1.40147	0.06657	1.2669	1.5360
MCN1-COMP-T	5	2.15062	0.06657	2.0161	2.2852
MCN2-COMP-T	5	2.09038	0.06657	1.9558	2.2249
MCN3-COMP	5	2.07969	0.06657	1.9451	2.2142
MCN4-COMP	5	2.09178	0.06657	1.9572	2.2263
MCN5-COMP	5	1.89748	0.06657	1.7629	2.0320
TB	5	2.35554	0.06657	2.2210	2.4901

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	2.07814	0.134098	0.05997	1.9116	2.2446
BIMW-COMP-T-M	5	1.97318	0.071302	0.03189	1.8846	2.0617
BIN-COMP-T	5	1.96214	0.088240	0.03946	1.8526	2.0717
LA3-REF	5	1.40147	0.377738	0.16893	0.9324	1.8705
MCN1-COMP-T	5	2.15062	0.105715	0.04728	2.0194	2.2819
MCN2-COMP-T	5	2.09038	0.054087	0.02419	2.0232	2.1575
MCN3-COMP	5	2.07969	0.089342	0.03995	1.9688	2.1906
MCN4-COMP	5	2.09178	0.104378	0.04668	1.9622	2.2214
MCN5-COMP	5	1.89748	0.108439	0.04850	1.7628	2.0321
TB	5	2.35554	0.057427	0.02568	2.2842	2.4268

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB149**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	0.689	<.0001*
MCN1-COMP-T	0.484	<.0001*
MCN4-COMP	0.426	<.0001*
MCN2-COMP-T	0.424	<.0001*
MCN3-COMP	0.414	<.0001*
BIME-COMP-T-M	0.412	<.0001*
BIMW-COMP-T-M	0.307	<.0001*
BIN-COMP-T	0.296	<.0001*
MCN5-COMP	0.231	<.0001*
LA3-REF	-0.26	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	147.000	127.500	29.4000	0.614
BIMW-COMP-T-M	5	91.000	127.500	18.2000	-1.164
BIN-COMP-T	5	84.500	127.500	16.9000	-1.374
LA3-REF	5	15.000	127.500	3.0000	-3.622
MCN1-COMP-T	5	179.000	127.500	35.8000	1.649
MCN2-COMP-T	5	152.000	127.500	30.4000	0.776
MCN3-COMP	5	145.500	127.500	29.1000	0.566
MCN4-COMP	5	155.000	127.500	31.0000	0.873
MCN5-COMP	5	66.000	127.500	13.2000	-1.973
TB	5	240.000	127.500	48.0000	3.622

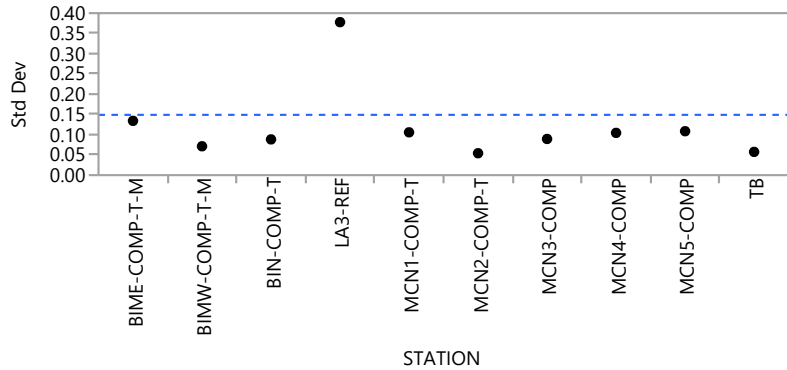
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
34.8165	9	<.0001*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB149**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1340975	0.1029720	0.1002000
BIMW-COMP-T-M	5	0.0713024	0.0523208	0.0516020
BIN-COMP-T	5	0.0882397	0.0619856	0.0619720
LA3-REF	5	0.3777378	0.2682618	0.1981386
MCN1-COMP-T	5	0.1057149	0.0876128	0.0814260
MCN2-COMP-T	5	0.0540865	0.0419040	0.0392620
MCN3-COMP	5	0.0893415	0.0712224	0.0706260
MCN4-COMP	5	0.1043780	0.0724736	0.0603940
MCN5-COMP	5	0.1084395	0.0933504	0.0841060
TB	5	0.0574266	0.0485328	0.0449240

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.1846	9	40	0.3310
Brown-Forsythe	0.6862	9	40	0.7168
Levene	3.0149	9	40	0.0077*
Bartlett	3.1929	9	.	0.0007*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*	Alpha
1.95996	0.05

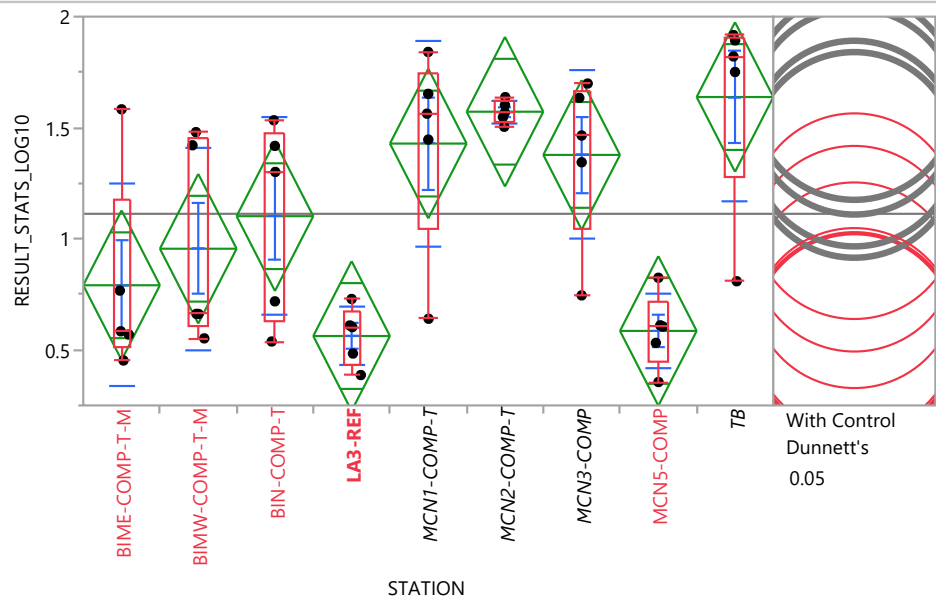
  

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
MCN1-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.632440	0.40135	1.50951
MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.544280	0.41208	1.39412
MCN3-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.542500	0.37343	1.41957
MCN4-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.565560	0.30271	1.41531
MCN5-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.389380	0.18988	1.27486
TB	BIME-COMP-T-M	4.80000	1.909043	2.51435	0.0119*	0.281580	0.06572	0.50864



Oneway Analysis of RESULT_STATS_LOG10 By STATION CHEM_OUT=PCB149									
Nonparametric Comparisons For Each Pair Using Wilcoxon Method									
Level	- Level	Score Mean	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
TB	BIMW-COMP-T-M	4.80000	1.909043	2.51435	0.0119*	0.371260	0.24971	0.53222	
TB	BIN-COMP-T	4.80000	1.909043	2.51435	0.0119*	0.397940	0.21569	0.55804	
TB	LA3-REF	4.80000	1.909043	2.51435	0.0119*	0.800120	0.67857	1.66712	
TB	MCN1-COMP-T	4.80000	1.909043	2.51435	0.0119*	0.192030	0.04587	0.38870	
TB	MCN2-COMP-T	4.80000	1.909043	2.51435	0.0119*	0.273000	0.13429	0.37797	
TB	MCN3-COMP	4.80000	1.909043	2.51435	0.0119*	0.290910	0.11081	0.41662	
TB	MCN4-COMP	4.80000	1.909043	2.51435	0.0119*	0.251810	0.12142	0.48734	
TB	MCN5-COMP	4.80000	1.909043	2.51435	0.0119*	0.488690	0.27221	0.61024	
MCN1-COMP-T	BIMW-COMP-T-M	4.00000	1.914854	2.08893	0.0367*	0.203840	-0.01916	0.37461	
MCN1-COMP-T	BIN-COMP-T	4.00000	1.914854	2.08893	0.0367*	0.181550	-0.00622	0.40043	
MCN2-COMP-T	BIMW-COMP-T-M	4.00000	1.914854	2.08893	0.0367*	0.115420	-0.00843	0.25922	
MCN2-COMP-T	BIN-COMP-T	3.60000	1.914854	1.88004	0.0601	0.124940	-0.00994	0.28504	
MCN3-COMP	BIN-COMP-T	3.40000	1.909043	1.78100	0.0749	0.120460	-0.07918	0.31049	
MCN3-COMP	BIMW-COMP-T-M	3.20000	1.914854	1.67115	0.0947	0.115600	-0.04708	0.28467	
MCN4-COMP	BIMW-COMP-T-M	3.20000	1.914854	1.67115	0.0947	0.130240	-0.11780	0.28041	
MCN4-COMP	BIN-COMP-T	3.20000	1.914854	1.67115	0.0947	0.146130	-0.08940	0.30623	
MCN1-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.069630	-0.16146	0.35103	
MCN4-COMP	MCN2-COMP-T	0.80000	1.914854	0.41779	0.6761	0.029840	-0.21434	0.12616	
MCN4-COMP	BIME-COMP-T-M	0.40000	1.914854	0.20889	0.8345	0.015010	-0.26010	0.25683	
MCN2-COMP-T	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.010120	-0.15991	0.23564	
MCN3-COMP	MCN2-COMP-T	0.00000	1.914854	0.00000	1.0000	-0.010190	-0.16058	0.13042	
MCN4-COMP	MCN3-COMP	0.00000	1.914854	0.00000	1.0000	0.023060	-0.23979	0.17345	
BIN-COMP-T	BIMW-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-0.020410	-0.18850	0.13428	
MCN3-COMP	BIME-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-0.009550	-0.22915	0.26109	
MCN5-COMP	BIN-COMP-T	-1.20000	1.914854	-0.62668	0.5309	-0.073500	-0.27300	0.16578	
MCN2-COMP-T	MCN1-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-0.079750	-0.22036	0.11570	
MCN4-COMP	MCN1-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-0.074540	-0.32973	0.13689	
MCN3-COMP	MCN1-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-0.072960	-0.25901	0.14115	
BIMW-COMP-T-M	BIME-COMP-T-M	-2.40000	1.914854	-1.25336	0.2101	-0.125540	-0.30498	0.13910	
MCN5-COMP	BIMW-COMP-T-M	-2.40000	1.914854	-1.25336	0.2101	-0.064090	-0.23898	0.13996	
BIN-COMP-T	BIME-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-0.129790	-0.33080	0.11070	
MCN5-COMP	MCN3-COMP	-3.20000	1.914854	-1.67115	0.0947	-0.178380	-0.37788	0.02436	
MCN5-COMP	BIME-COMP-T-M	-3.60000	1.914854	-1.88004	0.0601	-0.203370	-0.42297	0.11638	
MCN5-COMP	MCN4-COMP	-4.00000	1.914854	-2.08893	0.0367*	-0.167770	-0.36727	0.09508	
MCN5-COMP	MCN1-COMP-T	-4.40000	1.914854	-2.29783	0.0216*	-0.234650	-0.44282	-0.00356	
MCN5-COMP	MCN2-COMP-T	-4.40000	1.914854	-2.29783	0.0216*	-0.217980	-0.35440	-0.01429	
LA3-REF	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.562810	-1.43988	-0.28141	
LA3-REF	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.428860	-1.29758	-0.25783	
LA3-REF	BIN-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-0.426740	-1.26918	-0.23201	

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB151**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.452298	0.452298	0.510711	0.583577	1.174924	1.58288	1.58288
BIMW-COMP-T-M	0.551917	0.551917	0.60682	0.662247	1.45057	1.48013	1.48013
BIN-COMP-T	0.537819	0.537819	0.628193	1.30103	1.47587	1.5336	1.5336
LA3-REF	0.386742	0.386742	0.435197	0.60265	0.669611	0.729165	0.729165
MCN1-COMP-T	0.640192	0.640192	1.043341	1.56331	1.746795	1.84108	1.84108
MCN2-COMP-T	1.5044	1.5044	1.52605	1.56864	1.61988	1.6377	1.6377
MCN3-COMP	0.745427	0.745427	1.044964	1.46489	1.66674	1.69897	1.69897
MCN5-COMP	0.355388	0.355388	0.443434	0.604908	0.717672	0.824684	0.824684
TB	0.809041	0.809041	1.279921	1.82084	1.90507	1.91703	1.91703

**Oneway Anova**

**Summary of Fit**

Rsquare	0.579356
Adj Rsquare	0.48588
Root Mean Square Error	0.371198
Mean of Response	1.112525
Observations (or Sum Wgts)	45

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB151**

**Oneway Anova**

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	8	6.831965	0.853996	6.1979	<.0001*
Error	36	4.960373	0.137788		
C. Total	44	11.792338			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.79097	0.16600	0.4543	1.1276
BIMW-COMP-T-M	5	0.95541	0.16600	0.6187	1.2921
BIN-COMP-T	5	1.10183	0.16600	0.7652	1.4385
LA3-REF	5	0.56245	0.16600	0.2258	0.8991
MCN1-COMP-T	5	1.42872	0.16600	1.0920	1.7654
MCN2-COMP-T	5	1.57210	0.16600	1.2354	1.9088
MCN3-COMP	5	1.37766	0.16600	1.0410	1.7143
MCN5-COMP	5	0.58542	0.16600	0.2488	0.9221
TB	5	1.63816	0.16600	1.3015	1.9748

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.79097	0.456789	0.20428	0.2238	1.3581
BIMW-COMP-T-M	5	0.95541	0.454730	0.20336	0.3908	1.5200
BIN-COMP-T	5	1.10183	0.444735	0.19889	0.5496	1.6540
LA3-REF	5	0.56245	0.131109	0.05863	0.3997	0.7252
MCN1-COMP-T	5	1.42872	0.463770	0.20740	0.8529	2.0046
MCN2-COMP-T	5	1.57210	0.050970	0.02279	1.5088	1.6354
MCN3-COMP	5	1.37766	0.380013	0.16995	0.9058	1.8495
MCN5-COMP	5	0.58542	0.168885	0.07553	0.3757	0.7951
TB	5	1.63816	0.468045	0.20932	1.0570	2.2193

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.78823	0.05

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB151**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	0.421	0.0004*
MCN2-COMP-T	0.355	0.0009*
MCN1-COMP-T	0.212	0.0050*
MCN3-COMP	0.161	0.0090*
BIN-COMP-T	-0.12	0.1451
BIMW-COMP-T-M	-0.26	0.4332
BIME-COMP-T-M	-0.43	0.8950
MCN5-COMP	-0.63	1.0000
LA3-REF	-0.65	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	75.000	115.000	15.0000	-1.427
BIMW-COMP-T-M	5	93.000	115.000	18.6000	-0.776
BIN-COMP-T	5	102.000	115.000	20.4000	-0.451
LA3-REF	5	46.000	115.000	9.2000	-2.474
MCN1-COMP-T	5	156.000	115.000	31.2000	1.463
MCN2-COMP-T	5	170.000	115.000	34.0000	1.968
MCN3-COMP	5	148.000	115.000	29.6000	1.174
MCN5-COMP	5	52.000	115.000	10.4000	-2.257
TB	5	193.000	115.000	38.6000	2.799

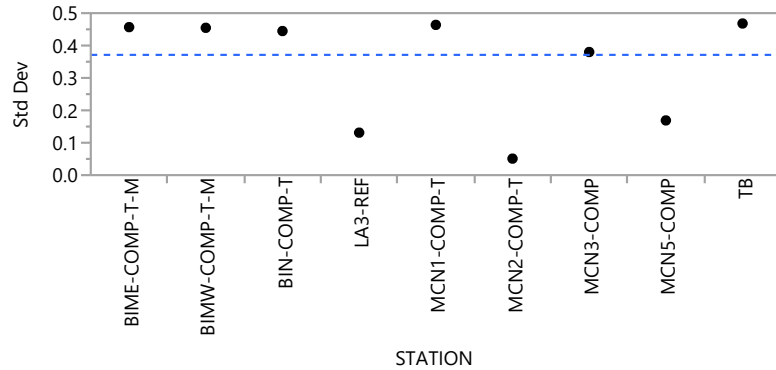
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
26.5067	8	0.0009*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB151**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.4567887	0.3167643	0.2656850
BIMW-COMP-T-M	5	0.4547302	0.3961318	0.3375002
BIN-COMP-T	5	0.4447352	0.3789108	0.3390710
LA3-REF	5	0.1311094	0.1018048	0.0937654
MCN1-COMP-T	5	0.4637697	0.3154098	0.2813816
MCN2-COMP-T	5	0.0509696	0.0382240	0.0375320
MCN3-COMP	5	0.3800129	0.2661567	0.2487106
MCN5-COMP	5	0.1688849	0.1135922	0.1096954
TB	5	0.4680454	0.3316493	0.2500598

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[5]	0.7090	8	36	0.6817
Brown-Forsythe	0.6262	8	36	0.7502
Levene	2.1863	8	36	0.0522
Bartlett	2.5120	8	.	0.0100*

Warning: Small sample sizes. Use Caution.

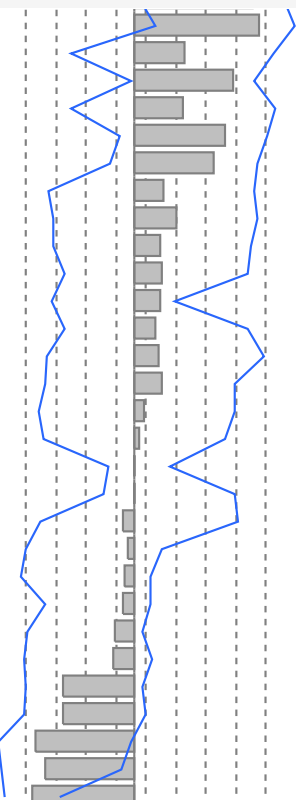
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*	Alpha	Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1.95996	0.05	MCN2-COMP-T	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.88545	0.06757	1.05014
		MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.99941	0.81854	1.21532
		MCN3-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.90535	0.13537	1.24777
		TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.21819	0.19899	1.50637
		MCN1-COMP-T	LA3-REF	4.40000	1.914854	2.29783	0.0216*	0.96284	0.03014	1.35743
		MCN2-COMP-T	BIN-COMP-T	4.40000	1.914854	2.29783	0.0216*	0.26761	0.01410	1.06424
		TB	BIME-COMP-T-M	4.40000	1.914854	2.29783	0.0216*	1.15006	0.04207	1.44081

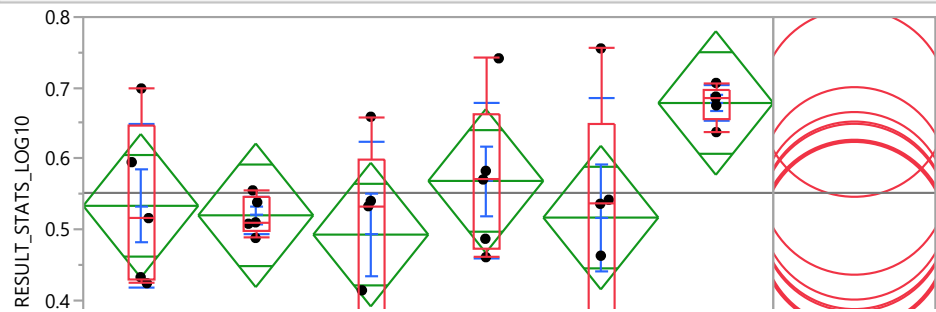
**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB151**

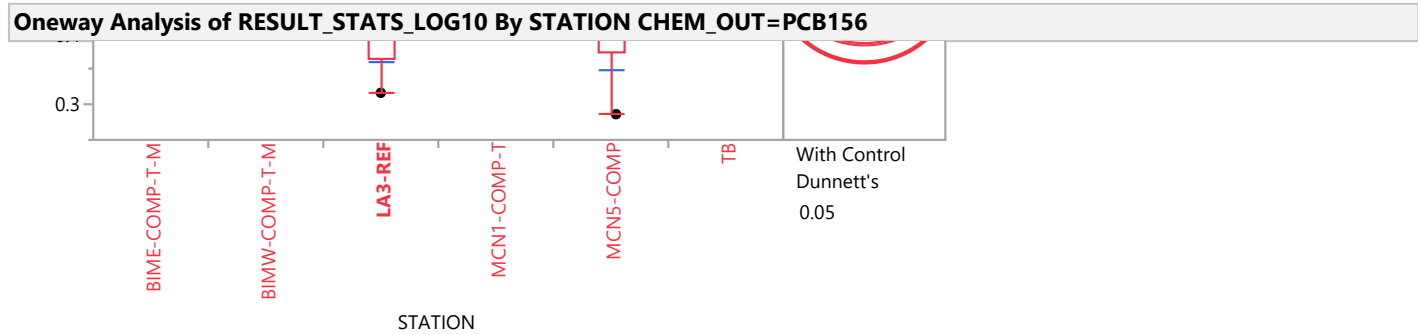
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	MCN5-COMP	4.40000	1.914854	2.29783	0.0216*	1.21593	0.19838	1.53772
TB	BIMW-COMP-T-M	4.00000	1.914854	2.08893	0.0367*	0.49602	-0.61197	1.34119
MCN2-COMP-T	BIME-COMP-T-M	3.60000	1.914854	1.88004	0.0601	0.96412	-0.03518	1.14976
TB	BIN-COMP-T	3.60000	1.914854	1.88004	0.0601	0.47497	-0.60910	1.35529
MCN1-COMP-T	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	0.87737	-0.13639	1.27196
MCN3-COMP	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	0.77538	-0.23838	1.18221
TB	MCN3-COMP	3.20000	1.914854	1.67115	0.0947	0.28252	-0.82547	1.14768
MCN1-COMP-T	BIMW-COMP-T-M	2.80000	1.914854	1.46225	0.1437	0.42007	-0.78082	1.17936
MCN1-COMP-T	BIN-COMP-T	2.80000	1.914854	1.46225	0.1437	0.26228	-0.77795	1.12251
MCN3-COMP	BIMW-COMP-T-M	2.80000	1.914854	1.46225	0.1437	0.27796	-0.67558	1.08259
TB	MCN2-COMP-T	2.80000	1.914854	1.46225	0.1437	0.25220	-0.79302	0.38871
MCN3-COMP	BIN-COMP-T	2.40000	1.914854	1.25336	0.2101	0.20761	-0.67271	1.09669
TB	MCN1-COMP-T	2.40000	1.914854	1.25336	0.2101	0.24060	-0.84347	1.25292
BIN-COMP-T	BIME-COMP-T-M	1.20000	1.914854	0.62668	0.5309	0.26627	-0.86431	0.96584
BIMW-COMP-T-M	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.09260	-0.92116	0.96871
BIN-COMP-T	BIMW-COMP-T-M	0.40000	1.914854	0.20889	0.8345	0.05632	-0.88319	0.87188
MCN5-COMP	LA3-REF	0.40000	1.914854	0.20889	0.8345	0.00226	-0.25467	0.34103
MCN2-COMP-T	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	0.00533	-0.29338	0.96187
MCN3-COMP	MCN1-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.09842	-0.90708	0.99432
MCN5-COMP	BIME-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-0.05210	-1.05140	0.25556
LA3-REF	BIME-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.08547	-1.09923	0.16004
MCN3-COMP	MCN2-COMP-T	-1.20000	1.914854	-0.62668	0.5309	-0.10375	-0.85663	0.15127
LA3-REF	BIMW-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-0.17860	-1.03427	0.06744
MCN5-COMP	BIMW-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-0.19653	-1.06562	0.16296
LA3-REF	BIN-COMP-T	-3.20000	1.914854	-1.67115	0.0947	-0.69097	-1.04995	0.07224
MCN5-COMP	BIN-COMP-T	-3.20000	1.914854	-1.67115	0.0947	-0.69037	-1.06275	0.10612
MCN5-COMP	MCN1-COMP-T	-4.40000	1.914854	-2.29783	0.0216*	-0.95840	-1.30960	-0.02953
MCN5-COMP	MCN3-COMP	-4.40000	1.914854	-2.29783	0.0216*	-0.85998	-1.27912	-0.13477
MCN5-COMP	MCN2-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-0.99140	-1.24667	-0.72302



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB156**





Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.423522	0.423522	0.427778	0.51558	0.646866	0.69897	0.69897
BIMW-COMP-T-M	0.487551	0.487551	0.497581	0.509589	0.54646	0.554833	0.554833
LA3-REF	0.316542	0.316542	0.364997	0.53245	0.599411	0.658965	0.658965
MCN1-COMP-T	0.460308	0.460308	0.473335	0.570238	0.662029	0.741634	0.741634
MCN5-COMP	0.286307	0.286307	0.374353	0.535827	0.648591	0.755603	0.755603
TB	0.637292	0.637292	0.656187	0.685397	0.697143	0.706795	0.706795

**Oneway Anova**

**Summary of Fit**

Rsquare	0.278908
Adj Rsquare	0.128681
Root Mean Square Error	0.110077
Mean of Response	0.551285
Observations (or Sum Wgts)	30

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	5	0.11248038	0.022496	1.8566	0.1398
Error	24	0.29080775	0.012117		
C. Total	29	0.40328813			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.532973	0.04923	0.43137	0.63457
BIMW-COMP-T-M	5	0.519534	0.04923	0.41793	0.62114
LA3-REF	5	0.492253	0.04923	0.39065	0.59385
MCN1-COMP-T	5	0.568193	0.04923	0.46659	0.66979
MCN5-COMP	5	0.516343	0.04923	0.41474	0.61794
TB	5	0.678411	0.04923	0.57681	0.78001

Std Error uses a pooled estimate of error variance

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB156**

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.532973	0.116021	0.05189	0.38891	0.67703
BIMW-COMP-T-M	5	0.519534	0.026712	0.01195	0.48637	0.55270
LA3-REF	5	0.492253	0.131109	0.05863	0.32946	0.65505
MCN1-COMP-T	5	0.568193	0.110254	0.04931	0.43129	0.70509
MCN5-COMP	5	0.516343	0.168885	0.07553	0.30664	0.72604
TB	5	0.678411	0.025684	0.01149	0.64652	0.71030

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.69532	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	-1e-3	0.0523
MCN1-COMP-T	-0.11	0.7146
BIME-COMP-T-M	-0.15	0.9650
BIMW-COMP-T-M	-0.16	0.9938
MCN5-COMP	-0.16	0.9965
LA3-REF	-0.19	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	69.000	77.500	13.8000	-0.445
BIMW-COMP-T-M	5	63.000	77.500	12.6000	-0.779
LA3-REF	5	57.000	77.500	11.4000	-1.113
MCN1-COMP-T	5	82.000	77.500	16.4000	0.223
MCN5-COMP	5	69.000	77.500	13.8000	-0.445
TB	5	125.000	77.500	25.0000	2.615

**1-Way Test, ChiSquare Approximation**

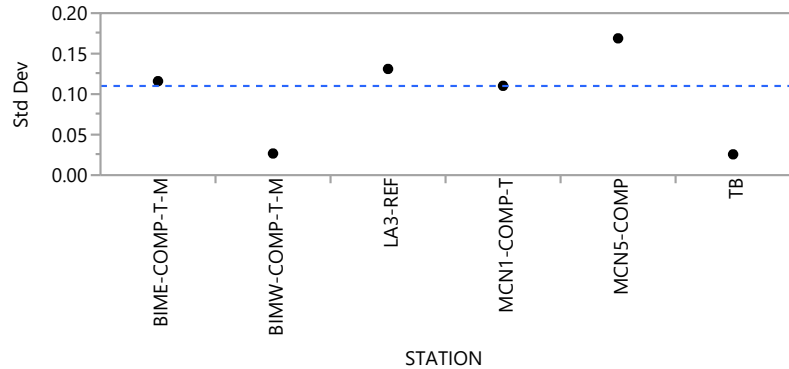
ChiSquare	DF	Prob>ChiSq
7.8748	5	0.1633

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB156**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1160212	0.0911138	0.0876352
BIMW-COMP-T-M	5	0.0267124	0.0215406	0.0195516
LA3-REF	5	0.1311094	0.1018048	0.0937654
MCN1-COMP-T	5	0.1102542	0.0758866	0.0754776
MCN5-COMP	5	0.1688849	0.1135922	0.1096954
TB	5	0.0256844	0.0177796	0.0163824

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.1733	5	24	0.3511
Brown-Forsythe	1.4629	5	24	0.2387
Levene	2.0267	5	24	0.1109
Bartlett	3.2289	5	.	0.0064*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

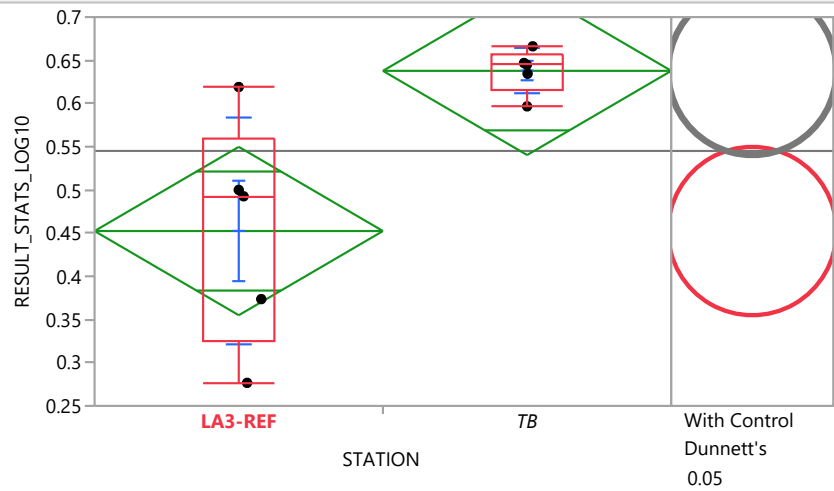
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.165492	0.099205	0.1999390
TB	LA3-REF	4.40000	1.914854	2.29783	0.0216*	0.155040	0.016116	0.3709480
TB	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	0.169817	-0.023889	0.2747620
TB	MCN1-COMP-T	2.80000	1.914854	1.46225	0.1437	0.117252	-0.066553	0.2271820
TB	MCN5-COMP	2.80000	1.914854	1.46225	0.1437	0.151663	-0.080522	0.4011830
MCN1-COMP-T	LA3-REF	1.60000	1.914854	0.83557	0.4034	0.049974	-0.172603	0.3281820
MCN1-COMP-T	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.042664	-0.212608	0.3096010
MCN1-COMP-T	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.032151	-0.077779	0.2340230
MCN5-COMP	LA3-REF	0.40000	1.914854	0.20889	0.8345	0.003377	-0.253549	0.3421510
BIMW-COMP-T-M	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.005991	-0.191359	0.1228000

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB156**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
LA3-REF	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.005637	-0.221545	0.1513540
MCN5-COMP	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.020247	-0.308454	0.3235700
MCN5-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.002260	-0.251780	0.2479920
LA3-REF	BIME-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.040005	-0.285518	0.2269320
MCN5-COMP	MCN1-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.034411	-0.296117	0.2692410

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB157**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
LA3-REF	0.276671	0.276671	0.325126	0.492578	0.559539	0.619093	0.619093
TB	0.596675	0.596675	0.615569	0.644779	0.656525	0.666177	0.666177

**Oneway Anova**

**Summary of Fit**

Rsquare	0.546228
Adj Rsquare	0.489506
Root Mean Square Error	0.09447
Mean of Response	0.545087
Observations (or Sum Wgts)	10

**t Test**

TB-LA3-REF

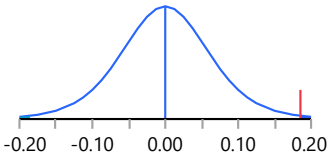
**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB157**

**Oneway Anova**

**t Test**

Assuming equal variances

Difference	0.185412	t Ratio	3.103222
Std Err Dif	0.059748	DF	8
Upper CL Dif	0.323191	Prob >  t	0.0146*
Lower CL Dif	0.047632	Prob > t	0.0073*
Confidence	0.95	Prob < t	0.9927



**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	1	0.08594384	0.085944	9.6300	0.0146*
Error	8	0.07139684	0.008925		
C. Total	9	0.15734068			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
LA3-REF	5	0.452381	0.04225	0.35496	0.54981
TB	5	0.637793	0.04225	0.54037	0.73522

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

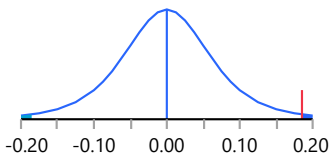
Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
LA3-REF	5	0.452381	0.131109	0.05863	0.28959	0.61517
TB	5	0.637793	0.025684	0.01149	0.60590	0.66968

**t Test**

TB-LA3-REF

Assuming unequal variances

Difference	0.185412	t Ratio	3.103222
Std Err Dif	0.059748	DF	4.306556
Upper CL Dif	0.346744	Prob >  t	0.0327*
Lower CL Dif	0.024079	Prob > t	0.0163*
Confidence	0.95	Prob < t	0.9837



**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.30600	0.05

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB157**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	0.048	0.0146*
LA3-REF	-0.14	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
LA3-REF	5	16.000	27.500	3.20000	-2.298
TB	5	39.000	27.500	7.80000	2.298

**2-Sample Test, Normal Approximation**

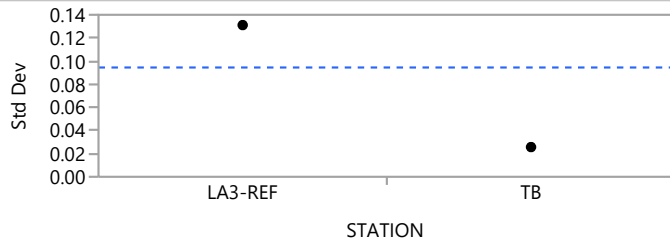
S	Z	Prob> Z
39	2.29783	0.0216*

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
5.7709	1	0.0163*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif	
			to Mean	to Median
LA3-REF	5	0.1311089	0.1018043	0.0937650
TB	5	0.0256840	0.0177794	0.0163822

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB157**

**Tests that the Variances are Equal**

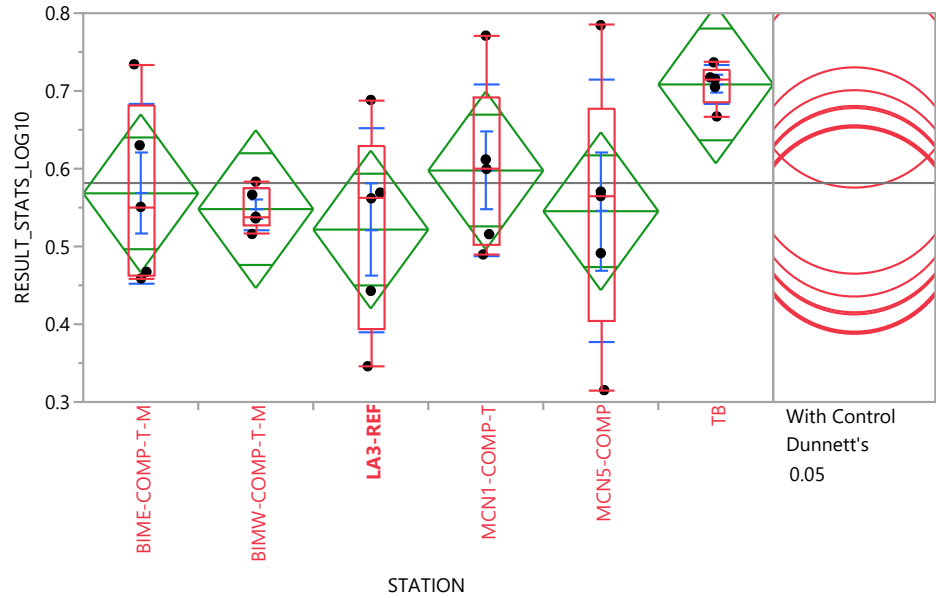
Test	F Ratio	DFNum	DFDen	p-Value
O'Brien[.5]	3.1013	1	8	0.1163
Brown-Forsythe	3.4796	1	8	0.0991
Levene	7.8465	1	8	0.0232*
Bartlett	6.9310	1	.	0.0085*
F Test 2-sided	26.0580	4	4	0.0080*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*		Alpha						
1.95996		0.05						
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	LA3-REF	4.400000	1.914854	2.297825	0.0216*	0.1542940	0.0153700	0.3702010

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB157**



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB167**

Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.45885	0.45885	0.463106	0.550907	0.682194	0.734298	0.734298
BIMW-COMP-T-M	0.516039	0.516039	0.526069	0.538078	0.574948	0.583321	0.583321
LA3-REF	0.345997	0.345997	0.394452	0.561905	0.628866	0.68842	0.68842
MCN1-COMP-T	0.489763	0.489763	0.50279	0.599693	0.691484	0.771089	0.771089
MCN5-COMP	0.31527	0.31527	0.403316	0.564791	0.677555	0.784566	0.784566
TB	0.667256	0.667256	0.68615	0.71536	0.727106	0.736759	0.736759

**Oneway Anova**

**Summary of Fit**

Rsquare	0.279282
Adj Rsquare	0.129132
Root Mean Square Error	0.110077
Mean of Response	0.58156
Observations (or Sum Wgts)	30

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	5	0.11268940	0.022538	1.8600	0.1391
Error	24	0.29080772	0.012117		
C. Total	29	0.40349711			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.568301	0.04923	0.46670	0.66990
BIMW-COMP-T-M	5	0.548022	0.04923	0.44642	0.64962
LA3-REF	5	0.521708	0.04923	0.42011	0.62331
MCN1-COMP-T	5	0.597648	0.04923	0.49605	0.69925
MCN5-COMP	5	0.545306	0.04923	0.44370	0.64691
TB	5	0.708374	0.04923	0.60677	0.80998

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.568301	0.116021	0.05189	0.42424	0.71236
BIMW-COMP-T-M	5	0.548022	0.026712	0.01195	0.51485	0.58119
LA3-REF	5	0.521708	0.131109	0.05863	0.35891	0.68450
MCN1-COMP-T	5	0.597648	0.110254	0.04931	0.46075	0.73455
MCN5-COMP	5	0.545306	0.168885	0.07553	0.33561	0.75500
TB	5	0.708374	0.025684	0.01149	0.67648	0.74027

**Means Comparisons**

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB167**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.69532	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	-1e-3	0.0515
MCN1-COMP-T	-0.11	0.7146
BIME-COMP-T-M	-0.14	0.9408
BIMW-COMP-T-M	-0.16	0.9947
MCN5-COMP	-0.16	0.9968
LA3-REF	-0.19	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	69.000	77.500	13.8000	-0.445
BIMW-COMP-T-M	5	63.000	77.500	12.6000	-0.779
LA3-REF	5	57.000	77.500	11.4000	-1.113
MCN1-COMP-T	5	82.000	77.500	16.4000	0.223
MCN5-COMP	5	69.000	77.500	13.8000	-0.445
TB	5	125.000	77.500	25.0000	2.615

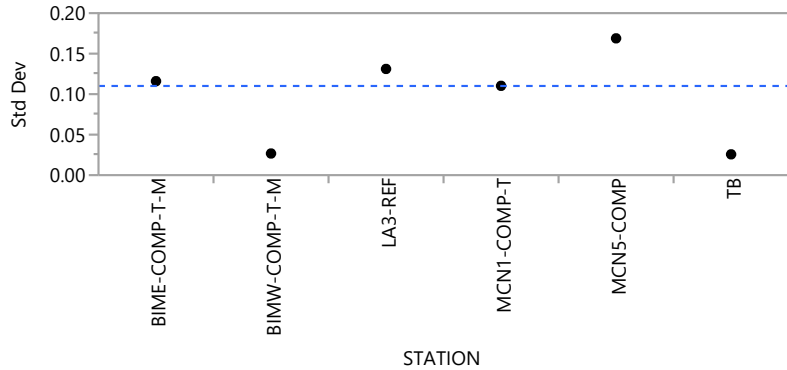
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
7.8748	5	0.1633

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB167**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1160212	0.0911140	0.0876352
BIMW-COMP-T-M	5	0.0267123	0.0215405	0.0195516
LA3-REF	5	0.1311094	0.1018048	0.0937654
MCN1-COMP-T	5	0.1102542	0.0758866	0.0754776
MCN5-COMP	5	0.1688849	0.1135923	0.1096954
TB	5	0.0256842	0.0177795	0.0163824

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.1733	5	24	0.3511
Brown-Forsythe	1.4629	5	24	0.2387
Levene	2.0267	5	24	0.1109
Bartlett	3.2289	5	.	0.0064*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.166966	0.100681	0.2014140
TB	LA3-REF	4.40000	1.914854	2.29783	0.0216*	0.155548	0.016624	0.3714560
TB	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	0.164453	-0.029254	0.2693980
TB	MCN1-COMP-T	2.80000	1.914854	1.46225	0.1437	0.117760	-0.066045	0.2276900
TB	MCN5-COMP	2.80000	1.914854	1.46225	0.1437	0.152662	-0.079522	0.4021830
MCN1-COMP-T	LA3-REF	1.60000	1.914854	0.83557	0.4034	0.049974	-0.172603	0.3281820
MCN1-COMP-T	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.036791	-0.218481	0.3037280
MCN1-COMP-T	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.033118	-0.076812	0.2349900
MCN5-COMP	LA3-REF	0.40000	1.914854	0.20889	0.8345	0.002886	-0.254041	0.3416590
BIMW-COMP-T-M	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.012829	-0.198199	0.1159600

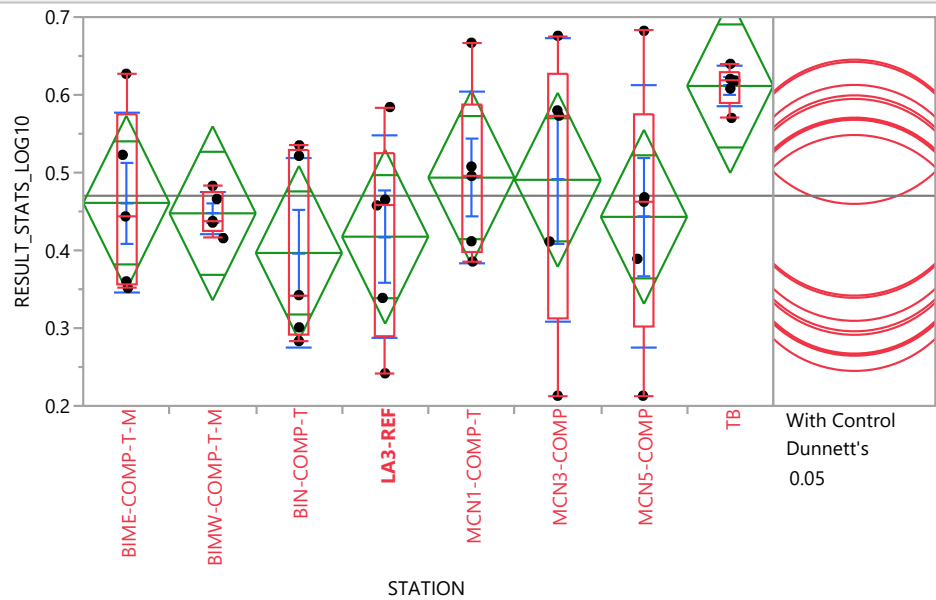


**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB167**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
LA3-REF	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.004670	-0.220578	0.1523210
MCN5-COMP	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.013884	-0.314819	0.3172050
MCN5-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.001784	-0.251305	0.2484670
LA3-REF	BIME-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.045878	-0.291391	0.2210590
MCN5-COMP	MCN1-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.034902	-0.296609	0.2687490

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB168**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.35164	0.35164	0.355896	0.443697	0.574984	0.627088	0.627088
BIMW-COMP-T-M	0.415669	0.415669	0.425699	0.437707	0.474578	0.482951	0.482951
BIN-COMP-T	0.283301	0.283301	0.292166	0.342423	0.528327	0.535113	0.535113
LA3-REF	0.241909	0.241909	0.290364	0.457816	0.524777	0.584331	0.584331
MCN1-COMP-T	0.385674	0.385674	0.398701	0.495605	0.587396	0.667001	0.667001
MCN3-COMP	0.213075	0.213075	0.312259	0.573226	0.627969	0.675956	0.675956
MCN5-COMP	0.213075	0.213075	0.301121	0.462595	0.575359	0.682371	0.682371
TB	0.570346	0.570346	0.58924	0.61845	0.630196	0.639849	0.639849

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB168**

**Oneway Anova**

**Summary of Fit**

Rsquare	0.23949
Adj Rsquare	0.073128
Root Mean Square Error	0.122853
Mean of Response	0.470239
Observations (or Sum Wgts)	40

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	7	0.15208961	0.021727	1.4396	0.2243
Error	32	0.48296774	0.015093		
C. Total	39	0.63505735			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.461091	0.05494	0.34918	0.57300
BIMW-COMP-T-M	5	0.447652	0.05494	0.33574	0.55956
BIN-COMP-T	5	0.396681	0.05494	0.28477	0.50859
LA3-REF	5	0.417619	0.05494	0.30571	0.52953
MCN1-COMP-T	5	0.493560	0.05494	0.38165	0.60547
MCN3-COMP	5	0.490736	0.05494	0.37882	0.60265
MCN5-COMP	5	0.443111	0.05494	0.33120	0.55502
TB	5	0.611464	0.05494	0.49955	0.72338

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.461091	0.116021	0.05189	0.31703	0.60515
BIMW-COMP-T-M	5	0.447652	0.026712	0.01195	0.41448	0.48082
BIN-COMP-T	5	0.396681	0.122169	0.05464	0.24499	0.54837
LA3-REF	5	0.417619	0.131109	0.05863	0.25483	0.58041
MCN1-COMP-T	5	0.493560	0.110255	0.04931	0.35666	0.63046
MCN3-COMP	5	0.490736	0.181975	0.08138	0.26478	0.71669
MCN5-COMP	5	0.443111	0.168885	0.07553	0.23341	0.65281
TB	5	0.611464	0.025684	0.01149	0.57957	0.64336

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.76173	0.05

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB168**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	-0.02	0.0900
MCN1-COMP-T	-0.14	0.8667
MCN3-COMP	-0.14	0.8852
BIME-COMP-T-M	-0.17	0.9911
BIMW-COMP-T-M	-0.18	0.9990
MCN5-COMP	-0.19	0.9997
LA3-REF	-0.21	1.0000
BIN-COMP-T	-0.19	0.9999

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	97.000	102.500	19.4000	-0.204
BIMW-COMP-T-M	5	89.000	102.500	17.8000	-0.532
BIN-COMP-T	5	70.000	102.500	14.0000	-1.309
LA3-REF	5	79.000	102.500	15.8000	-0.941
MCN1-COMP-T	5	110.000	102.500	22.0000	0.286
MCN3-COMP	5	113.500	102.500	22.7000	0.429
MCN5-COMP	5	93.500	102.500	18.7000	-0.348
TB	5	168.000	102.500	33.6000	2.658

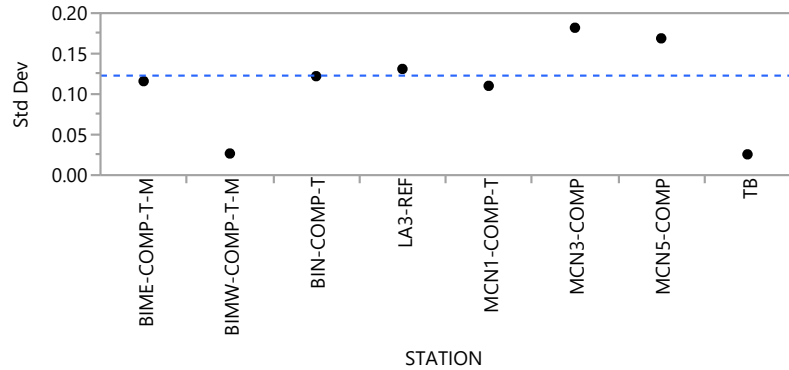
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
9.3221	7	0.2304

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB168**

**Tests that the Variances are Equal**



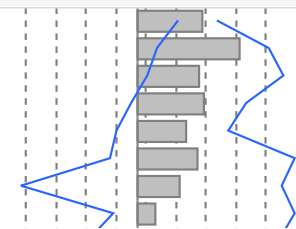
Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1160212	0.0911140	0.0876352
BIMW-COMP-T-M	5	0.0267124	0.0215406	0.0195516
BIN-COMP-T	5	0.1221692	0.1053161	0.0944644
LA3-REF	5	0.1311089	0.1018043	0.0937650
MCN1-COMP-T	5	0.1102546	0.0758869	0.0754778
MCN3-COMP	5	0.1819745	0.1427820	0.1262840
MCN5-COMP	5	0.1688849	0.1135922	0.1096954
TB	5	0.0256842	0.0177795	0.0163824

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.0837	7	32	0.3965
Brown-Forsythe	1.0404	7	32	0.4232
Levene	2.2859	7	32	0.0524
Bartlett	2.5974	7	.	0.0112*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

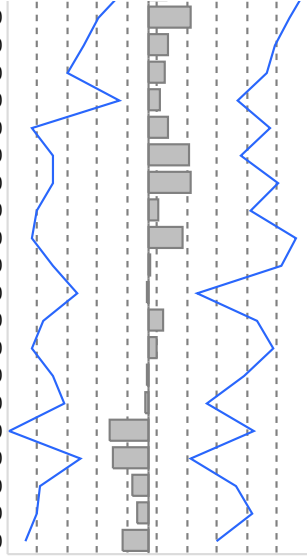
q*	Alpha	Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1.95996	0.05	TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.170427	0.104141	0.2048740
		TB	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.269316	0.048806	0.3388190
		TB	LA3-REF	4.40000	1.914854	2.29783	0.0216*	0.162727	0.023803	0.3786340
		TB	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	0.174753	-0.018954	0.2796980
		TB	MCN1-COMP-T	2.80000	1.914854	1.46225	0.1437	0.124938	-0.058867	0.2348690
		TB	MCN5-COMP	2.80000	1.914854	1.46225	0.1437	0.157948	-0.074237	0.4074680
		MCN3-COMP	BIN-COMP-T	2.00000	1.914854	1.04447	0.2963	0.110412	-0.308465	0.3749260
		TB	MCN3-COMP	2.00000	1.914854	1.04447	0.2963	0.047317	-0.067822	0.4074680



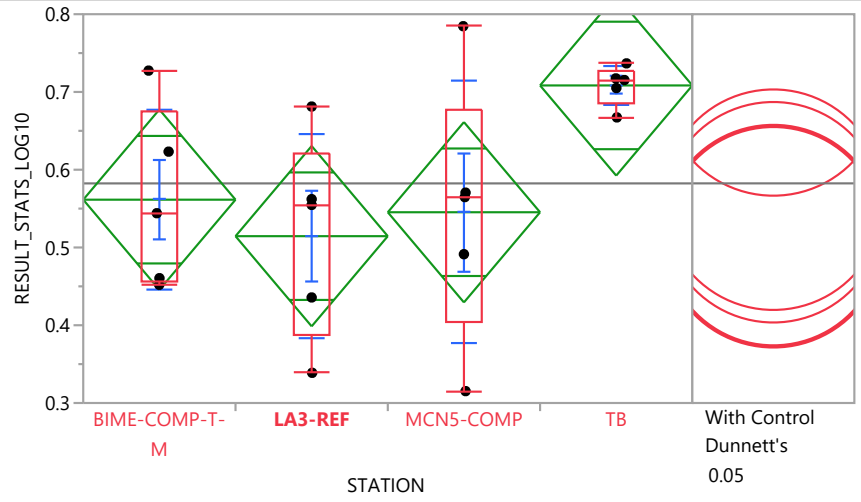
**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB168**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
MCN1-COMP-T	BIN-COMP-T	1.60000	1.914854	0.83557	0.4034	0.110698	-0.135866	0.3659710
MCN1-COMP-T	LA3-REF	1.60000	1.914854	0.83557	0.4034	0.049974	-0.172603	0.3281820
MCN1-COMP-T	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.039913	-0.215360	0.3068500
MCN1-COMP-T	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.029400	-0.080531	0.2312720
MCN3-COMP	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.051291	-0.309804	0.3158050
MCN3-COMP	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.107021	-0.253130	0.2402270
MCN3-COMP	LA3-REF	0.80000	1.914854	0.41779	0.6761	0.108004	-0.252147	0.3380720
MCN3-COMP	MCN1-COMP-T	0.40000	1.914854	0.20889	0.8345	0.025768	-0.294715	0.2642280
MCN5-COMP	BIN-COMP-T	0.40000	1.914854	0.20889	0.8345	0.088136	-0.308465	0.3813410
MCN5-COMP	LA3-REF	0.40000	1.914854	0.20889	0.8345	0.004779	-0.252147	0.3435520
BIMW-COMP-T-M	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.005990	-0.191359	0.1228000
LA3-REF	BIN-COMP-T	0.00000	1.914854	0.00000	1.0000	0.037789	-0.279631	0.2833010
MCN5-COMP	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.018898	-0.309804	0.3222200
MCN5-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.003610	-0.253130	0.2466420
LA3-REF	BIMW-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-0.008389	-0.224296	0.1486020
MCN5-COMP	MCN3-COMP	-0.60000	1.909043	-0.31429	0.7533	-0.104879	-0.366906	0.2709290
BIN-COMP-T	BIMW-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.095284	-0.182904	0.1058710
LA3-REF	BIME-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.042757	-0.288269	0.2241800
MCN5-COMP	MCN1-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.033010	-0.294715	0.2706430
BIN-COMP-T	BIME-COMP-T-M	-2.00000	1.914854	-1.04447	0.2963	-0.068339	-0.326058	0.1749620



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB168**



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB169**

Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.452011	0.452011	0.456267	0.544068	0.675354	0.727459	0.727459
LA3-REF	0.338819	0.338819	0.387274	0.554726	0.621687	0.681241	0.681241
MCN5-COMP	0.31527	0.31527	0.403316	0.564791	0.677555	0.784566	0.784566
TB	0.667256	0.667256	0.68615	0.71536	0.727106	0.736759	0.736759

**Oneway Anova**

**Summary of Fit**

Rsquare	0.317724
Adj Rsquare	0.189798
Root Mean Square Error	0.122303
Mean of Response	0.582418
Observations (or Sum Wgts)	20

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	3	0.11145155	0.037151	2.4836	0.0980
Error	16	0.23932893	0.014958		
C. Total	19	0.35078048			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.561462	0.05470	0.44551	0.67741
LA3-REF	5	0.514529	0.05470	0.39858	0.63048
MCN5-COMP	5	0.545306	0.05470	0.42936	0.66126
TB	5	0.708374	0.05470	0.59242	0.82432

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.561462	0.116021	0.05189	0.41740	0.70552
LA3-REF	5	0.514529	0.131109	0.05863	0.35174	0.67732
MCN5-COMP	5	0.545306	0.168885	0.07553	0.33561	0.75500
TB	5	0.708374	0.025684	0.01149	0.67648	0.74027

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.59232	0.05

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB169**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	-0.01	0.0591
BIME-COMP-T-M	-0.15	0.8758
MCN5-COMP	-0.17	0.9587
LA3-REF	-0.2	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

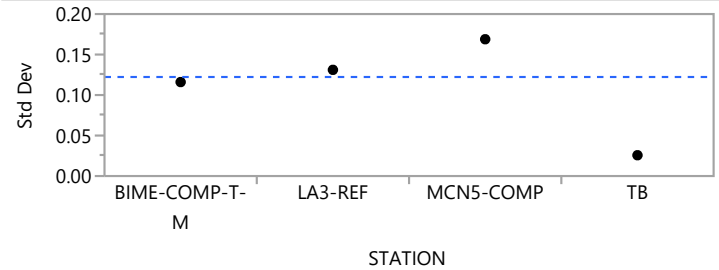
Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	46.000	52.500	9.2000	-0.524
LA3-REF	5	36.000	52.500	7.2000	-1.397
MCN5-COMP	5	48.000	52.500	9.6000	-0.349
TB	5	80.000	52.500	16.0000	2.357

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
6.2343	3	0.1008

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1160211	0.0911138	0.0876350
LA3-REF	5	0.1311089	0.1018043	0.0937650
MCN5-COMP	5	0.1688849	0.1135923	0.1096954
TB	5	0.0256842	0.0177795	0.0163824

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB169**

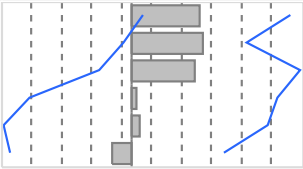
**Tests that the Variances are Equal**

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.0438	3	16	0.4001
Brown-Forsythe	1.2780	3	16	0.3156
Levene	1.8670	3	16	0.1759
Bartlett	2.9491	3	.	0.0314*

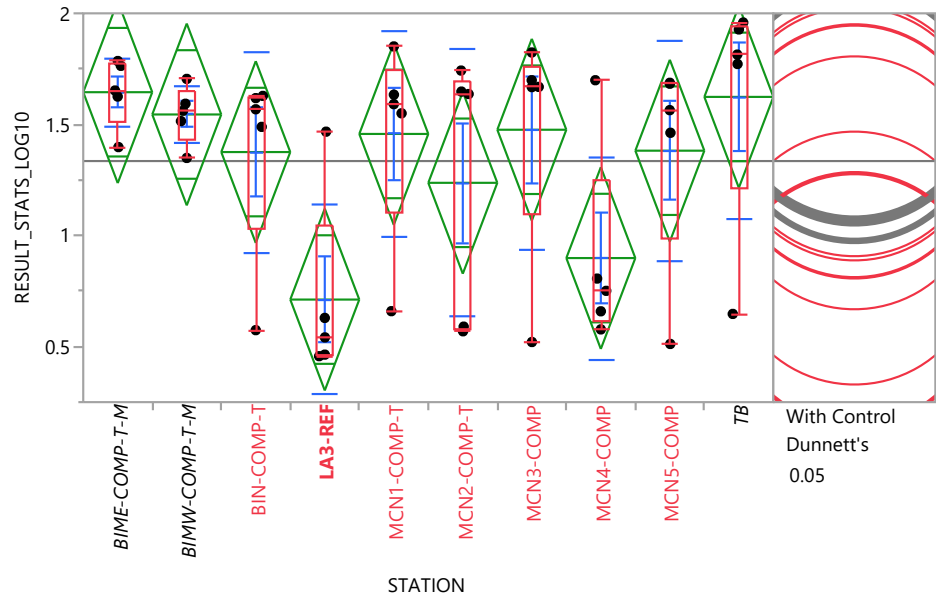
Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*		Alpha						
1.95996		0.05						
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	LA3-REF	4.40000	1.914854	2.29783	0.0216*	0.162727	0.023803	0.3786340
TB	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	0.171292	-0.022415	0.2762370
TB	MCN5-COMP	2.80000	1.914854	1.46225	0.1437	0.152662	-0.079522	0.4021830
MCN5-COMP	LA3-REF	0.80000	1.914854	0.41779	0.6761	0.010065	-0.246862	0.3488370
MCN5-COMP	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.020723	-0.307979	0.3240440
LA3-REF	BIME-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.046218	-0.291730	0.2207190



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB170**





**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB170**

**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	1.39794	1.39794	1.51174	1.65267	1.77453	1.78545	1.78545
BIMW-COMP-T-M	1.34909	1.34909	1.432	1.5618	1.649025	1.70488	1.70488
BIN-COMP-T	0.574031	0.574031	1.031526	1.5682	1.62342	1.62839	1.62839
LA3-REF	0.456918	0.456918	0.460338	0.541362	1.04822	1.46736	1.46736
MCN1-COMP-T	0.659461	0.659461	1.104746	1.59134	1.742455	1.85106	1.85106
MCN2-COMP-T	0.568892	0.568892	0.579359	1.63682	1.69513	1.74244	1.74244
MCN3-COMP	0.520587	0.520587	1.094264	1.66901	1.76144	1.82391	1.82391
MCN4-COMP	0.577385	0.577385	0.618119	0.750999	1.252575	1.69897	1.69897
MCN5-COMP	0.511883	0.511883	0.987142	1.56427	1.685285	1.68739	1.68739
TB	0.647052	0.647052	1.209521	1.81436	1.94303	1.95861	1.95861

**Oneway Anova**

**Summary of Fit**

Rsquare	0.341695
Adj Rsquare	0.193576
Root Mean Square Error	0.452675
Mean of Response	1.335171
Observations (or Sum Wgts)	50

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	9	4.254444	0.472716	2.3069	0.0340*
Error	40	8.196570	0.204914		
C. Total	49	12.451014			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.64504	0.20244	1.2359	2.0542
BIMW-COMP-T-M	5	1.54477	0.20244	1.1356	1.9539
BIN-COMP-T	5	1.37562	0.20244	0.9665	1.7848
LA3-REF	5	0.71170	0.20244	0.3025	1.1208
MCN1-COMP-T	5	1.45715	0.20244	1.0480	1.8663
MCN2-COMP-T	5	1.23716	0.20244	0.8280	1.6463
MCN3-COMP	5	1.47608	0.20244	1.0669	1.8852
MCN4-COMP	5	0.89848	0.20244	0.4893	1.3076
MCN5-COMP	5	1.38182	0.20244	0.9727	1.7910
TB	5	1.62389	0.20244	1.2147	2.0330

Std Error uses a pooled estimate of error variance

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB170**

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.64504	0.154330	0.06902	1.4534	1.8367
BIMW-COMP-T-M	5	1.54477	0.129856	0.05807	1.3835	1.7060
BIN-COMP-T	5	1.37562	0.451484	0.20191	0.8150	1.9362
LA3-REF	5	0.71170	0.428151	0.19147	0.1801	1.2433
MCN1-COMP-T	5	1.45715	0.460795	0.20607	0.8850	2.0293
MCN2-COMP-T	5	1.23716	0.601935	0.26919	0.4898	1.9846
MCN3-COMP	5	1.47608	0.537974	0.24059	0.8081	2.1441
MCN4-COMP	5	0.89848	0.455954	0.20391	0.3323	1.4646
MCN5-COMP	5	1.38182	0.495167	0.22145	0.7670	1.9967
TB	5	1.62389	0.551500	0.24664	0.9391	2.3087

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
BIME-COMP-T-M	0.128	0.0163*
TB	0.107	0.0198*
BIMW-COMP-T-M	0.028	0.0395*
MCN3-COMP	-0.04	0.0695
MCN1-COMP-T	-0.06	0.0807
MCN5-COMP	-0.13	0.1416
BIN-COMP-T	-0.14	0.1480
MCN2-COMP-T	-0.28	0.3579
MCN4-COMP	-0.62	0.9918
LA3-REF	-0.8	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	168.000	127.500	33.6000	1.294
BIMW-COMP-T-M	5	128.000	127.500	25.6000	0.000
BIN-COMP-T	5	110.000	127.500	22.0000	-0.550
LA3-REF	5	37.000	127.500	7.4000	-2.910
MCN1-COMP-T	5	140.000	127.500	28.0000	0.388
MCN2-COMP-T	5	122.000	127.500	24.4000	-0.162

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB170**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

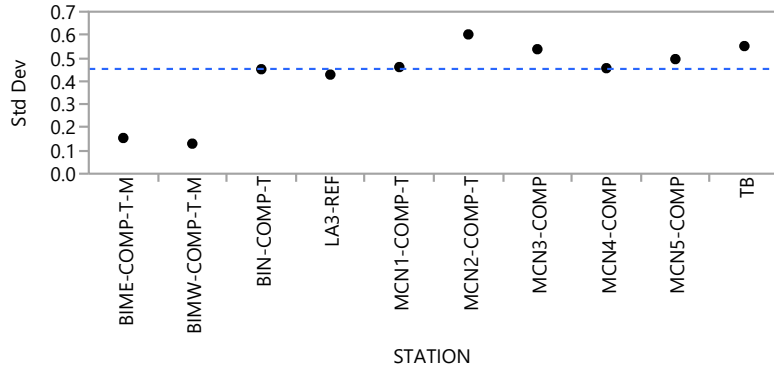
Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
MCN3-COMP	5	161.500	127.500	32.3000	1.083
MCN4-COMP	5	88.500	127.500	17.7000	-1.245
MCN5-COMP	5	120.000	127.500	24.0000	-0.226
TB	5	200.000	127.500	40.0000	2.328

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
17.2366	9	0.0451*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1543298	0.1066416	0.1051160
BIMW-COMP-T-M	5	0.1298558	0.0902160	0.0868100
BIN-COMP-T	5	0.4514838	0.3206349	0.2367578
LA3-REF	5	0.4281509	0.3022659	0.2351528
MCN1-COMP-T	5	0.4607953	0.3190749	0.2550838
MCN2-COMP-T	5	0.6019346	0.5262405	0.4463084
MCN3-COMP	5	0.5379742	0.3821986	0.2668706
MCN4-COMP	5	0.4559543	0.3201970	0.2537824
MCN5-COMP	5	0.4951672	0.3479766	0.2792574
TB	5	0.5515005	0.3907362	0.2934036

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB170**

**Tests that the Variances are Equal**

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	0.4200	9	40	0.9167
Brown-Forsythe	0.3016	9	40	0.9699
Levene	1.2705	9	40	0.2826
Bartlett	1.3137	9	.	0.2235

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

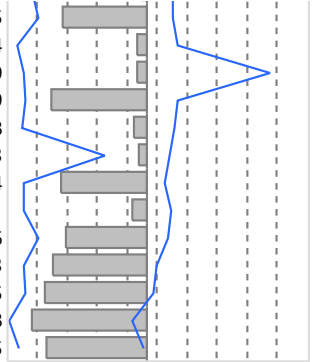
q\* Alpha  
1.95996 0.05

Level	- Level	Score Mean		Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
		Difference	Std Err Dif						
MCN1-COMP-T	LA3-REF	4.40000	1.914854	2.29783	0.0216*	1.00867	0.03038	1.38730	
TB	LA3-REF	4.40000	1.914854	2.29783	0.0216*	1.27300	0.01797	1.49485	
MCN3-COMP	LA3-REF	3.60000	1.914854	1.88004	0.0601	1.12658	-0.10849	1.36015	
TB	MCN2-COMP-T	3.60000	1.914854	1.88004	0.0601	0.21617	-1.00077	1.36878	
MCN2-COMP-T	LA3-REF	3.20000	1.914854	1.67115	0.0947	0.27508	-0.87753	1.27868	
MCN5-COMP	LA3-REF	3.20000	1.914854	1.67115	0.0947	0.99864	-0.11720	1.22626	
TB	BIN-COMP-T	3.20000	1.914854	1.67115	0.0947	0.29906	-0.97140	1.35342	
TB	MCN4-COMP	3.20000	1.914854	1.67115	0.0947	1.06336	-0.15913	1.35007	
TB	MCN5-COMP	3.20000	1.914854	1.67115	0.0947	0.25009	-1.03613	1.41557	
MCN3-COMP	BIN-COMP-T	2.80000	1.914854	1.46225	0.1437	0.10081	-1.09786	1.12494	
MCN4-COMP	LA3-REF	2.80000	1.914854	1.46225	0.1437	0.19510	-0.80851	1.23521	
TB	BIMW-COMP-T-M	2.80000	1.914854	1.46225	0.1437	0.25373	-0.94612	0.57836	
TB	BIME-COMP-T-M	2.40000	1.914854	1.25336	0.2101	0.16169	-1.11656	0.52951	
TB	MCN3-COMP	2.40000	1.914854	1.25336	0.2101	0.13470	-1.05192	1.40686	
TB	MCN1-COMP-T	2.00000	1.914854	1.04447	0.2963	0.22196	-0.98680	1.26799	
MCN3-COMP	BIMW-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.10721	-1.07258	0.34988	
MCN3-COMP	MCN2-COMP-T	1.60000	1.914854	0.83557	0.4034	0.05115	-1.12723	1.23408	
MCN1-COMP-T	BIN-COMP-T	1.20000	1.914854	0.62668	0.5309	0.06101	-0.95899	1.05982	
MCN2-COMP-T	BIN-COMP-T	1.20000	1.914854	0.62668	0.5309	0.01943	-1.04956	1.07379	
MCN3-COMP	MCN1-COMP-T	1.20000	1.914854	0.62668	0.5309	0.07660	-1.11326	1.03951	
MCN5-COMP	MCN4-COMP	1.20000	1.914854	0.62668	0.5309	0.80355	-0.29430	1.10580	
MCN1-COMP-T	BIMW-COMP-T-M	0.40000	1.914854	0.20889	0.8345	0.03512	-0.93371	0.33615	
MCN3-COMP	BIME-COMP-T-M	0.40000	1.914854	0.20889	0.8345	0.01634	-1.24302	0.30103	
BIN-COMP-T	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.02497	-1.01914	0.26936	
MCN2-COMP-T	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.03756	-1.11505	0.29873	
MCN2-COMP-T	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	-0.06964	-1.26123	0.98836	
MCN5-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.01749	-1.08129	0.33409	
MCN5-COMP	BIN-COMP-T	0.00000	1.914854	0.00000	1.0000	0.05479	-1.10657	1.10915	
MCN5-COMP	MCN2-COMP-T	0.00000	1.914854	0.00000	1.0000	-0.05505	-1.13594	1.11429	
MCN4-COMP	MCN2-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.04347	-1.08359	1.10914	
MCN5-COMP	MCN1-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.06958	-1.12197	1.02372	
MCN1-COMP-T	BIME-COMP-T-M	-1.20000	1.914854	-0.62668	0.5309	-0.07551	-1.10415	0.23591	

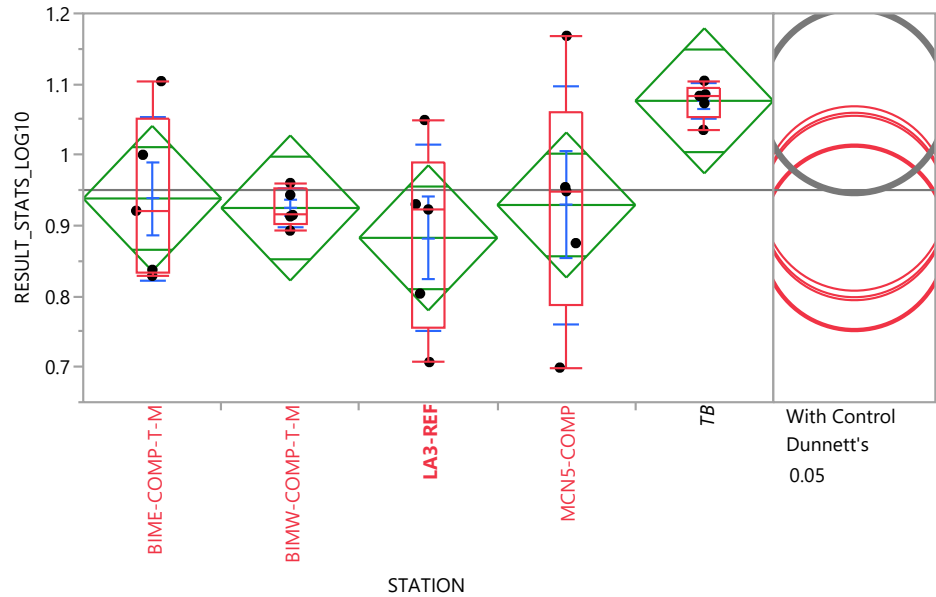
**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB170**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
MCN4-COMP	BIN-COMP-T	-1.20000	1.914854	-0.62668	0.5309	-0.81227	-1.04107	0.23215
MCN5-COMP	BIME-COMP-T-M	-1.60000	1.914854	-0.83557	0.4034	-0.09806	-1.25173	0.28524
MCN5-COMP	MCN3-COMP	-1.60000	1.914854	-0.83557	0.4034	-0.10474	-1.18709	1.16259
MCN4-COMP	MCN3-COMP	-1.80000	1.909043	-0.94288	0.3457	-0.91694	-1.16506	0.28559
MCN2-COMP-T	BIME-COMP-T-M	-2.00000	1.914854	-1.04447	0.2963	-0.12679	-1.19562	0.24988
BIMW-COMP-T-M	BIME-COMP-T-M	-2.40000	1.914854	-1.25336	0.2101	-0.09087	-0.41452	0.19523
MCN4-COMP	MCN1-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-0.82767	-1.19221	0.14894
BIN-COMP-T	BIME-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-0.14516	-1.18958	0.22051
MCN4-COMP	BIMW-COMP-T-M	-3.20000	1.914854	-1.67115	0.0947	-0.78699	-1.04603	0.18406
MCN4-COMP	BIME-COMP-T-M	-3.60000	1.914854	-1.88004	0.0601	-0.90167	-1.18623	0.07343
LA3-REF	BIN-COMP-T	-4.00000	1.914854	-2.08893	0.0367*	-0.98937	-1.16463	0.05505
LA3-REF	BIME-COMP-T-M	-4.40000	1.914854	-2.29783	0.0216*	-1.11131	-1.32169	-0.15818
LA3-REF	BIMW-COMP-T-M	-4.40000	1.914854	-2.29783	0.0216*	-0.97355	-1.24112	-0.04755



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB174**



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB174**

**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.828761	0.828761	0.833017	0.920819	1.052105	1.10421	1.10421
BIMW-COMP-T-M	0.89279	0.89279	0.90282	0.914828	0.951699	0.960072	0.960072
LA3-REF	0.706795	0.706795	0.75525	0.922703	0.989665	1.04922	1.04922
MCN5-COMP	0.69897	0.69897	0.787016	0.94849	1.061257	1.16827	1.16827
TB	1.03523	1.03523	1.054125	1.08334	1.095085	1.10474	1.10474

**Oneway Anova**

**Summary of Fit**

Rsquare	0.309748
Adj Rsquare	0.171698
Root Mean Square Error	0.110042
Mean of Response	0.95017
Observations (or Sum Wgts)	25

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	4	0.10868059	0.027170	2.2437	0.1006
Error	20	0.24218703	0.012109		
C. Total	24	0.35086762			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.93821	0.04921	0.83556	1.0409
BIMW-COMP-T-M	5	0.92477	0.04921	0.82212	1.0274
LA3-REF	5	0.88251	0.04921	0.77985	0.9852
MCN5-COMP	5	0.92901	0.04921	0.82635	1.0317
TB	5	1.07635	0.04921	0.97370	1.1790

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.93821	0.116021	0.05189	0.7942	1.0823
BIMW-COMP-T-M	5	0.92477	0.026712	0.01195	0.8916	0.9579
LA3-REF	5	0.88251	0.131110	0.05863	0.7197	1.0453
MCN5-COMP	5	0.92901	0.168886	0.07553	0.7193	1.1387
TB	5	1.07635	0.025687	0.01149	1.0445	1.1082

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB174**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**Confidence Quantile**

d	Alpha
2.65103	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	0.009	0.0378*
BIME-COMP-T-M	-0.13	0.8386
MCN5-COMP	-0.14	0.9049
BIMW-COMP-T-M	-0.14	0.9296
LA3-REF	-0.18	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

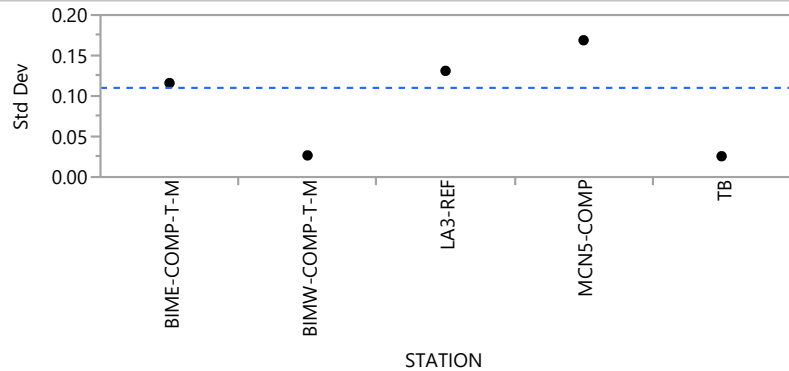
Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	59.000	65.000	11.8000	-0.374
BIMW-COMP-T-M	5	53.000	65.000	10.6000	-0.781
LA3-REF	5	47.000	65.000	9.4000	-1.189
MCN5-COMP	5	61.000	65.000	12.2000	-0.238
TB	5	105.000	65.000	21.0000	2.683

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
7.8277	4	0.0981

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB174**

**Tests that the Variances are Equal**

Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1160213	0.0911139	0.0876352
BIMW-COMP-T-M	5	0.0267124	0.0215406	0.0195516
LA3-REF	5	0.1311100	0.1018051	0.0937658
MCN5-COMP	5	0.1688864	0.1135930	0.1096964
TB	5	0.0256868	0.0177816	0.0163840

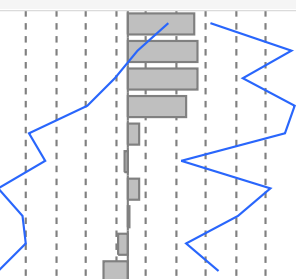
Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[5]	1.3797	4	20	0.2765
Brown-Forsythe	1.7871	4	20	0.1710
Levene	2.6198	4	20	0.0657
Bartlett	4.0258	4	.	0.0029*

Warning: Small sample sizes. Use Caution.

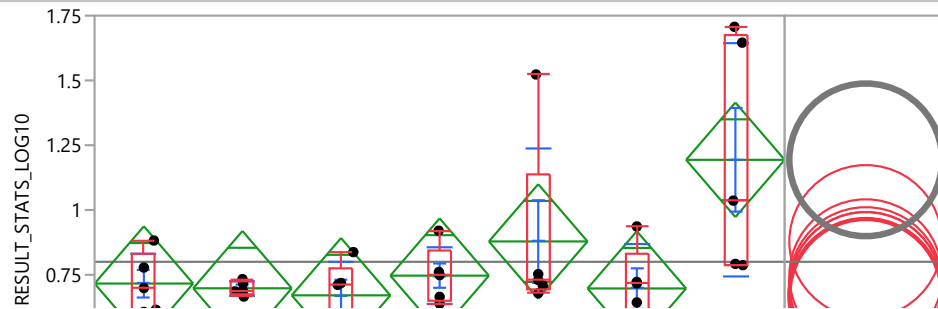
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q\* Alpha  
1.95996 0.05

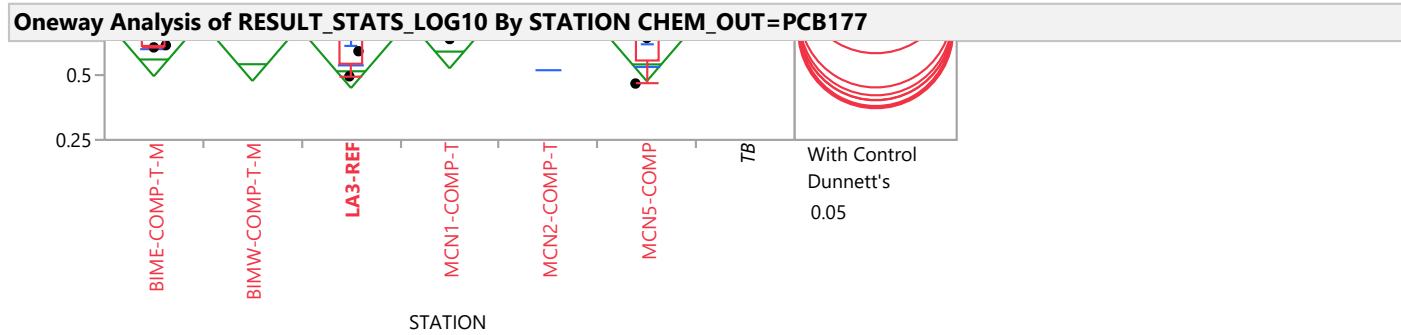
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.158192	0.091904	0.1926400
TB	LA3-REF	4.40000	1.914854	2.29783	0.0216*	0.162727	0.023800	0.3786350
TB	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	0.162521	-0.031190	0.2674670
TB	MCN5-COMP	2.80000	1.914854	1.46225	0.1437	0.136940	-0.095250	0.3864600
MCN5-COMP	LA3-REF	0.80000	1.914854	0.41779	0.6761	0.025787	-0.231139	0.3645650
BIMW-COMP-T-M	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.005991	-0.191360	0.1227990
MCN5-COMP	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.027671	-0.301030	0.3309970
MCN5-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.005164	-0.244356	0.2554200
LA3-REF	BIMW-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-0.020623	-0.236531	0.1363700
LA3-REF	BIME-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.054990	-0.300505	0.2119470



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB177**







Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.606912	0.606912	0.611168	0.69897	0.830256	0.882361	0.882361
BIMW-COMP-T-M	0.666089	0.666089	0.676119	0.688127	0.724998	0.733371	0.733371
LA3-REF	0.495166	0.495166	0.543621	0.711073	0.778034	0.837588	0.837588
MCN1-COMP-T	0.638931	0.638931	0.651958	0.748862	0.840653	0.920258	0.920258
MCN2-COMP-T	0.679226	0.679226	0.694148	0.730004	1.137768	1.52288	1.52288
MCN5-COMP	0.467361	0.467361	0.555407	0.716882	0.829646	0.936657	0.936657
TB	0.787231	0.787231	0.789713	1.03621	1.67626	1.7068	1.7068

**Oneway Anova**

**Summary of Fit**

Rsquare	0.390371
Adj Rsquare	0.259736
Root Mean Square Error	0.241167
Mean of Response	0.800275
Observations (or Sum Wgts)	35

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	6	1.0428104	0.173802	2.9883	0.0220*
Error	28	1.6285197	0.058161		
C. Total	34	2.6713301			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.71636	0.10785	0.49544	0.9373
BIMW-COMP-T-M	5	0.69807	0.10785	0.47715	0.9190
LA3-REF	5	0.67088	0.10785	0.44995	0.8918
MCN1-COMP-T	5	0.74682	0.10785	0.52589	0.9677
MCN2-COMP-T	5	0.87877	0.10785	0.65784	1.0997
MCN5-COMP	5	0.69740	0.10785	0.47647	0.9183
TB	5	1.19363	0.10785	0.97270	1.4146

Std Error uses a pooled estimate of error variance

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB177**

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.71636	0.116021	0.05189	0.57230	0.8604
BIMW-COMP-T-M	5	0.69807	0.026712	0.01195	0.66490	0.7312
LA3-REF	5	0.67088	0.131109	0.05863	0.50808	0.8337
MCN1-COMP-T	5	0.74682	0.110255	0.04931	0.60992	0.8837
MCN2-COMP-T	5	0.87877	0.361085	0.16148	0.43042	1.3271
MCN5-COMP	5	0.69740	0.168885	0.07553	0.48770	0.9071
TB	5	1.19363	0.452444	0.20234	0.63185	1.7554

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.73128	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	0.106	0.0096*
MCN2-COMP-T	-0.21	0.5745
MCN1-COMP-T	-0.34	0.9910
BIME-COMP-T-M	-0.37	0.9994
BIMW-COMP-T-M	-0.39	1.0000
MCN5-COMP	-0.39	1.0000
LA3-REF	-0.42	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	76.000	90.000	15.2000	-0.636
BIMW-COMP-T-M	5	69.000	90.000	13.8000	-0.966
LA3-REF	5	66.000	90.000	13.2000	-1.108
MCN1-COMP-T	5	90.000	90.000	18.0000	0.000
MCN2-COMP-T	5	100.000	90.000	20.0000	0.448
MCN5-COMP	5	75.000	90.000	15.0000	-0.684
TB	5	154.000	90.000	30.8000	2.993

**1-Way Test, ChiSquare Approximation**

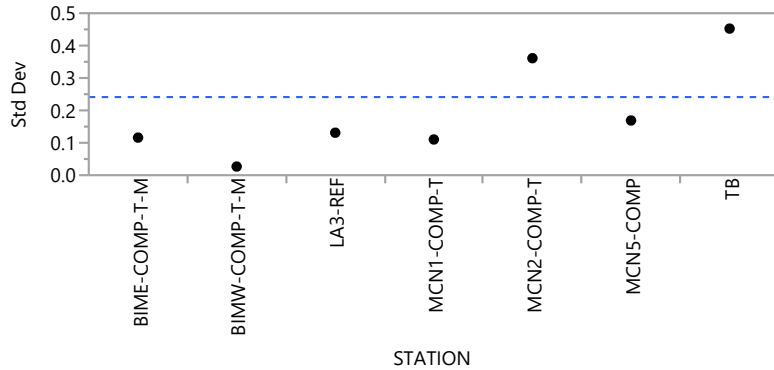
ChiSquare	DF	Prob>ChiSq
10.7314	6	0.0970

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB177**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1160213	0.0911139	0.0876352
BIMW-COMP-T-M	5	0.0267124	0.0215406	0.0195516
LA3-REF	5	0.1311089	0.1018043	0.0937650
MCN1-COMP-T	5	0.1102546	0.0758869	0.0754778
MCN2-COMP-T	5	0.3610851	0.2576452	0.1774478
MCN5-COMP	5	0.1688849	0.1135923	0.1096954
TB	5	0.4524436	0.3861032	0.3546190

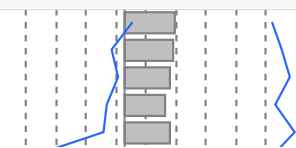
Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	2.5598	6	28	0.0420*
Brown-Forsythe	1.8185	6	28	0.1316
Levene	6.2116	6	28	0.0003*
Bartlett	4.4407	6	.	0.0002*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q\* Alpha  
1.95996 0.05

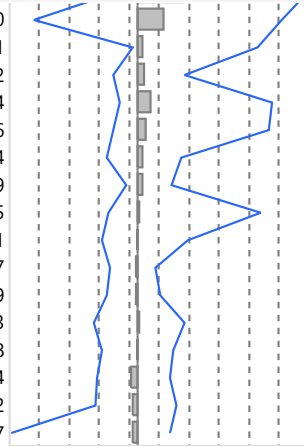
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.348083	0.058823	1.020651
TB	BIME-COMP-T-M	4.00000	1.914854	2.08893	0.0367*	0.337240	-0.090167	1.091376
TB	LA3-REF	4.00000	1.914854	2.08893	0.0367*	0.325137	-0.045394	1.150554
TB	MCN1-COMP-T	4.00000	1.914854	2.08893	0.0367*	0.287348	-0.128064	1.041815
TB	MCN5-COMP	4.00000	1.914854	2.08893	0.0367*	0.324833	-0.144463	1.178359



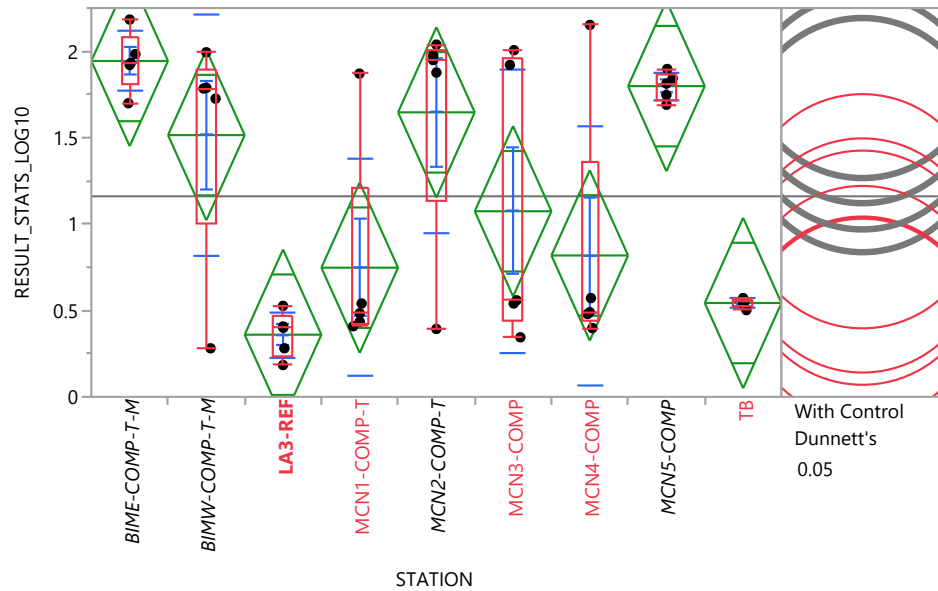
**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB177**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	MCN2-COMP-T	3.60000	1.914854	1.88004	0.0601	0.183920	-0.730686	0.997730
MCN2-COMP-T	BIMW-COMP-T-M	2.00000	1.914854	1.04447	0.2963	0.036030	-0.037399	0.836731
MCN1-COMP-T	LA3-REF	1.60000	1.914854	0.83557	0.4034	0.049974	-0.172603	0.328182
MCN2-COMP-T	LA3-REF	1.60000	1.914854	0.83557	0.4034	0.087150	-0.128518	0.930804
MCN2-COMP-T	BIME-COMP-T-M	1.20000	1.914854	0.62668	0.5309	0.063802	-0.173291	0.907456
MCN1-COMP-T	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.037897	-0.217376	0.304834
MCN1-COMP-T	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.032237	-0.077694	0.234109
MCN2-COMP-T	MCN1-COMP-T	0.40000	1.914854	0.20889	0.8345	0.014241	-0.211188	0.857895
MCN5-COMP	LA3-REF	0.40000	1.914854	0.20889	0.8345	0.005809	-0.251118	0.344581
BIMW-COMP-T-M	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.010843	-0.196212	0.117947
LA3-REF	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.005552	-0.221459	0.151439
MCN5-COMP	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.017912	-0.310790	0.321233
MCN5-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.000257	-0.249264	0.250508
LA3-REF	BIME-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.044773	-0.290285	0.222164
MCN5-COMP	MCN1-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.031980	-0.293686	0.271672
MCN5-COMP	MCN2-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-0.035773	-0.879427	0.227587



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB180**



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB180**

**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	1.69897	1.69897	1.809895	1.93142	2.0835	2.18339	2.18339
BIMW-COMP-T-M	0.280827	0.280827	1.003334	1.78398	1.891295	1.99401	1.99401
LA3-REF	0.183917	0.183917	0.232372	0.399824	0.466785	0.526339	0.526339
MCN1-COMP-T	0.408405	0.408405	0.421608	0.48337	1.205209	1.87037	1.87037
MCN2-COMP-T	0.3928	0.3928	1.13482	1.94885	2.00672	2.03826	2.03826
MCN3-COMP	0.344496	0.344496	0.442272	0.558791	1.963405	2.00599	2.00599
MCN4-COMP	0.39794	0.39794	0.438593	0.48971	1.361841	2.15229	2.15229
MCN5-COMP	1.6902	1.6902	1.718545	1.81291	1.87011	1.89734	1.89734
TB	0.501888	0.501888	0.520783	0.549993	0.561739	0.571391	0.571391

**Oneway Anova**

**Summary of Fit**

Rsquare	0.559308
Adj Rsquare	0.461376
Root Mean Square Error	0.543505
Mean of Response	1.160544
Observations (or Sum Wgts)	45

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	8	13.496648	1.68708	5.7112	0.0001*
Error	36	10.634326	0.29540		
C. Total	44	24.130974			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.94364	0.24306	1.451	2.4366
BIMW-COMP-T-M	5	1.51465	0.24306	1.022	2.0076
LA3-REF	5	0.35963	0.24306	-0.133	0.8526
MCN1-COMP-T	5	0.74740	0.24306	0.254	1.2404
MCN2-COMP-T	5	1.64639	0.24306	1.153	2.1393
MCN3-COMP	5	1.07403	0.24306	0.581	1.5670
MCN4-COMP	5	0.81812	0.24306	0.325	1.3111
MCN5-COMP	5	1.79804	0.24306	1.305	2.2910
TB	5	0.54301	0.24306	0.050	1.0360

Std Error uses a pooled estimate of error variance

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB180**

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.94364	0.172924	0.07733	1.729	2.1584
BIMW-COMP-T-M	5	1.51465	0.697188	0.31179	0.649	2.3803
LA3-REF	5	0.35963	0.131109	0.05863	0.197	0.5224
MCN1-COMP-T	5	0.74740	0.629762	0.28164	-0.035	1.5294
MCN2-COMP-T	5	1.64639	0.703161	0.31446	0.773	2.5195
MCN3-COMP	5	1.07403	0.816767	0.36527	0.060	2.0882
MCN4-COMP	5	0.81812	0.748352	0.33467	-0.111	1.7473
MCN5-COMP	5	1.79804	0.081145	0.03629	1.697	1.8988
TB	5	0.54301	0.025684	0.01149	0.511	0.5749

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.78823	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
BIME-COMP-T-M	0.626	0.0004*
MCN5-COMP	0.48	0.0012*
MCN2-COMP-T	0.328	0.0043*
BIMW-COMP-T-M	0.197	0.0121*
MCN3-COMP	-0.24	0.2212
MCN4-COMP	-0.5	0.6693
MCN1-COMP-T	-0.57	0.8093
TB	-0.78	0.9964
LA3-REF	-0.96	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	182.500	115.000	36.5000	2.420
BIMW-COMP-T-M	5	126.500	115.000	25.3000	0.397
LA3-REF	5	33.500	115.000	6.7000	-2.926
MCN1-COMP-T	5	80.500	115.000	16.1000	-1.228
MCN2-COMP-T	5	158.000	115.000	31.6000	1.535
MCN3-COMP	5	120.000	115.000	24.0000	0.163
MCN4-COMP	5	96.500	115.000	19.3000	-0.650
MCN5-COMP	5	146.000	115.000	29.2000	1.102

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB180**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

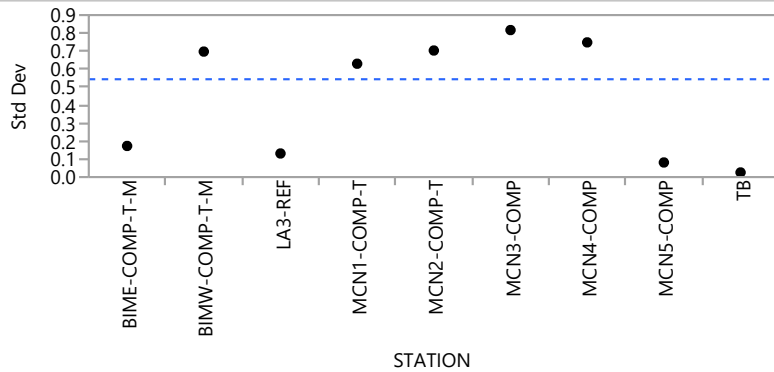
Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
TB	5	91.500	115.000	18.3000	-0.831

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
18.8461	8	0.0157*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1729242	0.1118864	0.1094420
BIMW-COMP-T-M	5	0.6971877	0.4935282	0.3551846
LA3-REF	5	0.1311089	0.1018043	0.0937650
MCN1-COMP-T	5	0.6297615	0.4491878	0.3134402
MCN2-COMP-T	5	0.7031611	0.5014344	0.3487600
MCN3-COMP	5	0.8167667	0.7115010	0.6084534
MCN4-COMP	5	0.7483524	0.5336699	0.3692992
MCN5-COMP	5	0.0811450	0.0635992	0.0606260
TB	5	0.0256844	0.0177796	0.0163824

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[5]	0.9277	8	36	0.5058
Brown-Forsythe	0.7314	8	36	0.6631
Levene	3.8647	8	36	0.0023*
Bartlett	5.6198	8	.	<.0001*

Warning: Small sample sizes. Use Caution.

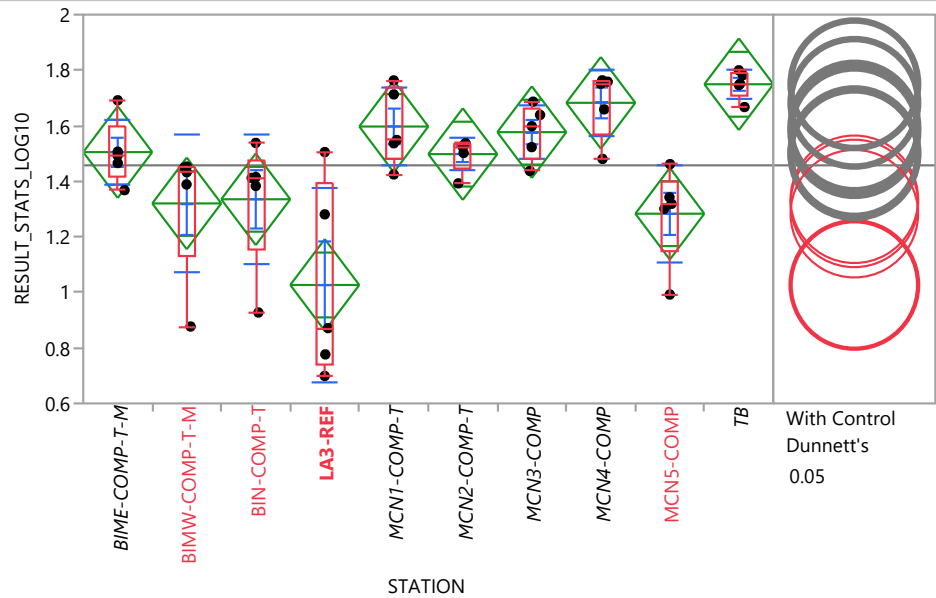
**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB180**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

		q*	Alpha						
		1.95996	0.05						
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
MCN5-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.43565	1.22055	1.65896	
TB	LA3-REF	4.40000	1.914854	2.29783	0.0216*	0.15226	0.01334	0.36817	
MCN1-COMP-T	LA3-REF	3.60000	1.914854	1.88004	0.0601	0.14022	-0.09153	1.58954	
MCN2-COMP-T	LA3-REF	3.60000	1.914854	1.88004	0.0601	1.54903	-0.01443	1.79126	
MCN3-COMP	LA3-REF	3.60000	1.914854	1.88004	0.0601	0.27796	-0.06273	1.73690	
MCN5-COMP	MCN1-COMP-T	3.20000	1.914854	1.67115	0.0947	1.30283	-0.12348	1.46253	
MCN2-COMP-T	MCN1-COMP-T	2.80000	1.914854	1.46225	0.1437	1.43513	-0.14725	1.60345	
MCN4-COMP	LA3-REF	2.80000	1.914854	1.46225	0.1437	0.17157	-0.04709	1.87146	
MCN5-COMP	MCN4-COMP	2.80000	1.914854	1.46225	0.1437	1.27149	-0.40540	1.44494	
MCN2-COMP-T	BIMW-COMP-T-M	2.00000	1.914854	1.04447	0.2963	0.16027	-1.39578	1.69435	
TB	MCN1-COMP-T	2.00000	1.914854	1.04447	0.2963	0.06662	-1.33069	0.14368	
MCN3-COMP	MCN1-COMP-T	1.80000	1.909043	0.94288	0.3457	1.00524	-1.33032	1.57118	
TB	MCN4-COMP	1.00000	1.909043	0.52382	0.6004	0.04997	-1.61261	0.15415	
MCN5-COMP	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.02893	-0.24712	1.56205	
MCN5-COMP	MCN3-COMP	0.80000	1.914854	0.41779	0.6761	1.18810	-0.25910	1.49838	
MCN4-COMP	MCN1-COMP-T	0.40000	1.914854	0.20889	0.8345	0.03134	-1.39113	1.71748	
MCN3-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.07319	-1.45396	1.63999	
MCN2-COMP-T	BIME-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-0.03476	-1.59081	0.27621	
MCN4-COMP	MCN3-COMP	-0.40000	1.914854	-0.20889	0.8345	-0.06080	-1.52675	1.61224	
MCN4-COMP	BIMW-COMP-T-M	-1.20000	1.914854	-0.62668	0.5309	-1.23613	-1.51477	0.42645	
MCN4-COMP	MCN2-COMP-T	-1.20000	1.914854	-0.62668	0.5309	-1.39760	-1.57724	0.27545	
TB	MCN3-COMP	-1.20000	1.914854	-0.62668	0.5309	-0.01911	-1.46631	0.20759	
MCN1-COMP-T	BIMW-COMP-T-M	-1.60000	1.914854	-0.83557	0.4034	-1.24853	-1.55920	0.25922	
MCN3-COMP	MCN2-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-0.11744	-1.63068	1.52802	
BIMW-COMP-T-M	BIME-COMP-T-M	-2.00000	1.914854	-1.04447	0.2963	-0.19498	-1.70278	0.08961	
MCN5-COMP	MCN2-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-0.13230	-0.29137	1.45008	
MCN3-COMP	BIME-COMP-T-M	-2.60000	1.909043	-1.36194	0.1732	-1.35447	-1.64334	0.22185	
TB	BIMW-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-1.23189	-1.45433	0.27126	
TB	MCN2-COMP-T	-2.80000	1.914854	-1.46225	0.1437	-1.39886	-1.49858	0.15929	
MCN4-COMP	BIME-COMP-T-M	-3.20000	1.914854	-1.67115	0.0947	-1.43111	-1.70415	0.23147	
MCN5-COMP	BIME-COMP-T-M	-3.20000	1.914854	-1.67115	0.0947	-0.14073	-0.43650	0.14391	
LA3-REF	BIMW-COMP-T-M	-3.40000	1.909043	-1.78100	0.0749	-1.38416	-1.71318	0.12640	
MCN1-COMP-T	BIME-COMP-T-M	-4.40000	1.914854	-2.29783	0.0216*	-1.44356	-1.74858	-0.05045	
LA3-REF	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-1.57638	-1.90256	-1.29174	
TB	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-1.39174	-1.64371	-1.14688	
TB	MCN5-COMP	-4.80000	1.914854	-2.50672	0.0122*	-1.26292	-1.35766	-1.13811	



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB183**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	1.36798	1.36798	1.41678	1.49292	1.59902	1.69155	1.69155
BIMW-COMP-T-M	0.87704	0.87704	1.13282	1.4327	1.45148	1.45299	1.45299
BIN-COMP-T	0.927449	0.927449	1.155335	1.41218	1.476545	1.53812	1.53812
LA3-REF	0.69897	0.69897	0.737773	0.871131	1.39299	1.50515	1.50515
MCN1-COMP-T	1.42459	1.42459	1.48063	1.54858	1.737985	1.76321	1.76321
MCN2-COMP-T	1.39254	1.39254	1.44724	1.52288	1.53564	1.53712	1.53712
MCN3-COMP	1.43725	1.43725	1.480065	1.5983	1.662855	1.68674	1.68674
MCN4-COMP	1.48047	1.48047	1.56966	1.751	1.760995	1.76343	1.76343
MCN5-COMP	0.992175	0.992175	1.146603	1.31876	1.402015	1.46161	1.46161
TB	1.66726	1.66726	1.706825	1.751	1.790925	1.79964	1.79964

**Oneway Anova**

**Summary of Fit**

Rsquare	0.613433
Adj Rsquare	0.526455
Root Mean Square Error	0.182598
Mean of Response	1.457356
Observations (or Sum Wgts)	50

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB183**

**Oneway Anova**

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	9	2.1163752	0.235153	7.0528	<.0001*
Error	40	1.3336782	0.033342		
C. Total	49	3.4500534			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.50490	0.08166	1.3399	1.6699
BIMW-COMP-T-M	5	1.32026	0.08166	1.1552	1.4853
BIN-COMP-T	5	1.33519	0.08166	1.1701	1.5002
LA3-REF	5	1.02653	0.08166	0.8615	1.1916
MCN1-COMP-T	5	1.59716	0.08166	1.4321	1.7622
MCN2-COMP-T	5	1.49773	0.08166	1.3327	1.6628
MCN3-COMP	5	1.57683	0.08166	1.4118	1.7419
MCN4-COMP	5	1.68246	0.08166	1.5174	1.8475
MCN5-COMP	5	1.28320	0.08166	1.1182	1.4482
TB	5	1.74930	0.08166	1.5843	1.9143

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.50490	0.117556	0.05257	1.3589	1.6509
BIMW-COMP-T-M	5	1.32026	0.249098	0.11140	1.0110	1.6296
BIN-COMP-T	5	1.33519	0.235602	0.10536	1.0426	1.6277
LA3-REF	5	1.02653	0.349166	0.15615	0.5930	1.4601
MCN1-COMP-T	5	1.59716	0.138506	0.06194	1.4252	1.7691
MCN2-COMP-T	5	1.49773	0.060403	0.02701	1.4227	1.5727
MCN3-COMP	5	1.57683	0.098483	0.04404	1.4545	1.6991
MCN4-COMP	5	1.68246	0.120833	0.05404	1.5324	1.8325
MCN5-COMP	5	1.28320	0.174367	0.07798	1.0667	1.4997
TB	5	1.74930	0.050890	0.02276	1.6861	1.8125

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB183**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	0.398	<.0001*
MCN4-COMP	0.331	<.0001*
MCN1-COMP-T	0.246	0.0001*
MCN3-COMP	0.226	0.0002*
BIME-COMP-T-M	0.154	0.0014*
MCN2-COMP-T	0.146	0.0016*
BIN-COMP-T	-0.02	0.0691
BIMW-COMP-T-M	-0.03	0.0922
MCN5-COMP	-0.07	0.1793
LA3-REF	-0.32	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	128.000	127.500	25.6000	0.000
BIMW-COMP-T-M	5	76.000	127.500	15.2000	-1.649
BIN-COMP-T	5	82.000	127.500	16.4000	-1.455
LA3-REF	5	40.000	127.500	8.0000	-2.814
MCN1-COMP-T	5	173.000	127.500	34.6000	1.455
MCN2-COMP-T	5	133.500	127.500	26.7000	0.178
MCN3-COMP	5	161.500	127.500	32.3000	1.083
MCN4-COMP	5	200.500	127.500	40.1000	2.345
MCN5-COMP	5	55.000	127.500	11.0000	-2.328
TB	5	225.500	127.500	45.1000	3.153

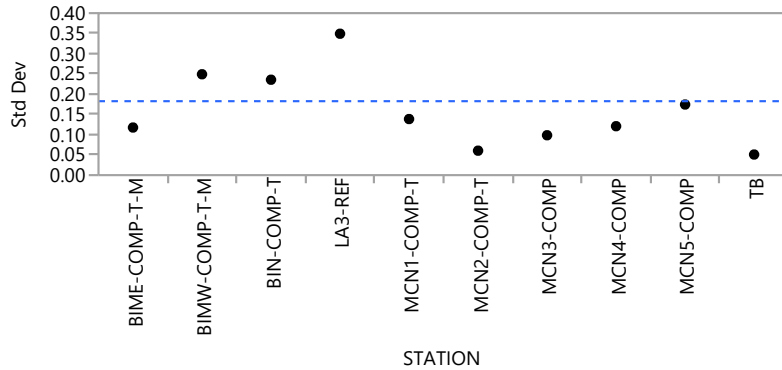
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
33.7261	9	<.0001*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB183**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1175558	0.0752928	0.0728960
BIMW-COMP-T-M	5	0.2490979	0.1772880	0.1274640
BIN-COMP-T	5	0.2356016	0.1630955	0.1284842
LA3-REF	5	0.3491660	0.2931670	0.2620870
MCN1-COMP-T	5	0.1385058	0.1126584	0.1029420
MCN2-COMP-T	5	0.0604026	0.0420752	0.0353600
MCN3-COMP	5	0.0984832	0.0774104	0.0731160
MCN4-COMP	5	0.1208330	0.0902416	0.0765340
MCN5-COMP	5	0.1743668	0.1164096	0.1021650
TB	5	0.0508898	0.0339800	0.0336400

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.6311	9	40	0.1394
Brown-Forsythe	0.9612	9	40	0.4855
Levene	3.2123	9	40	0.0051*
Bartlett	2.4129	9	.	0.0098*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

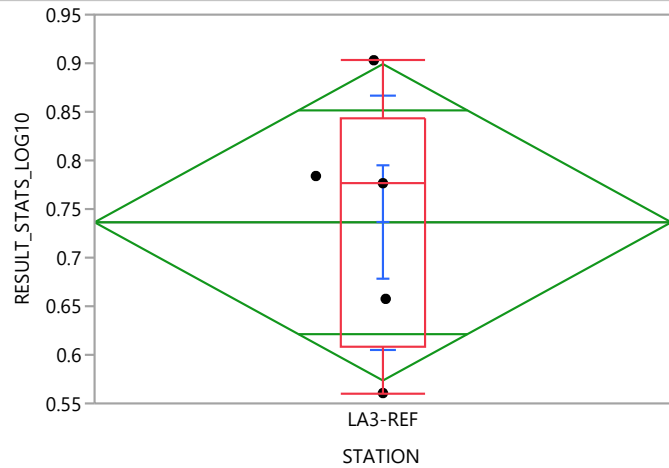
q*		Alpha							
1.95996		0.05							
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
MCN4-COMP	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.310440	0.030500	0.88152	
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.346650	0.217290	0.90517	
TB	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.363170	0.208270	0.85476	
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.879869	0.241240	1.08324	
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.248050	0.133100	0.38967	
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	0.439790	0.284780	0.79004	

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB183**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
MCN1-COMP-T	LA3-REF	4.40000	1.914854	2.29783	0.0216*	0.665539	0.031520	1.01379	
MCN3-COMP	LA3-REF	4.40000	1.914854	2.29783	0.0216*	0.660675	0.017730	0.94000	
MCN4-COMP	BIN-COMP-T	4.40000	1.914854	2.29783	0.0216*	0.338820	0.065500	0.83111	
MCN4-COMP	LA3-REF	4.40000	1.914854	2.29783	0.0216*	0.781500	0.153700	1.05959	
TB	BIME-COMP-T-M	4.40000	1.914854	2.29783	0.0216*	0.275720	0.054840	0.41423	
TB	MCN3-COMP	4.40000	1.914854	2.29783	0.0216*	0.152700	0.028290	0.34496	
MCN1-COMP-T	BIN-COMP-T	4.00000	1.914854	2.08893	0.0367*	0.174640	-0.001450	0.78531	
MCN2-COMP-T	LA3-REF	4.00000	1.914854	2.08893	0.0367*	0.630809	-0.003210	0.83519	
MCN3-COMP	BIMW-COMP-T-M	4.00000	1.914854	2.08893	0.0367*	0.189000	-0.012720	0.76193	
MCN3-COMP	BIN-COMP-T	4.00000	1.914854	2.08893	0.0367*	0.186120	-0.015240	0.71152	
MCN1-COMP-T	BIMW-COMP-T-M	3.60000	1.914854	1.88004	0.0601	0.259770	-0.025380	0.83572	
MCN2-COMP-T	BIMW-COMP-T-M	3.60000	1.914854	1.88004	0.0601	0.087150	-0.057430	0.65712	
MCN4-COMP	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	0.244510	-0.032700	0.39058	
MCN4-COMP	MCN2-COMP-T	3.20000	1.914854	1.67115	0.0947	0.224400	-0.053690	0.36602	
TB	MCN1-COMP-T	3.20000	1.914854	1.67115	0.0947	0.197810	-0.045500	0.35762	
MCN4-COMP	MCN3-COMP	2.80000	1.914854	1.46225	0.1437	0.119590	-0.158500	0.32131	
MCN1-COMP-T	BIME-COMP-T-M	2.40000	1.914854	1.25336	0.2101	0.071090	-0.154880	0.34478	
MCN5-COMP	LA3-REF	2.40000	1.914854	1.25336	0.2101	0.293205	-0.288655	0.68504	
MCN3-COMP	MCN2-COMP-T	2.20000	1.909043	1.15241	0.2492	0.096360	-0.096910	0.24643	
MCN2-COMP-T	BIN-COMP-T	2.00000	1.914854	1.04447	0.2963	0.118720	-0.036180	0.60671	
MCN3-COMP	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.091810	-0.168670	0.27099	
MCN4-COMP	MCN1-COMP-T	1.60000	1.914854	0.83557	0.4034	0.055880	-0.232290	0.33397	
TB	MCN4-COMP	1.40000	1.909043	0.73335	0.4633	0.031210	-0.091300	0.30174	
MCN2-COMP-T	BIME-COMP-T-M	1.20000	1.914854	0.62668	0.5309	0.027670	-0.189610	0.16618	
BIN-COMP-T	BIMW-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-0.017730	-0.522521	0.53793	
MCN3-COMP	MCN1-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.025700	-0.275510	0.21438	
MCN5-COMP	BIMW-COMP-T-M	-1.20000	1.914854	-0.62668	0.5309	-0.090280	-0.457795	0.46538	
MCN5-COMP	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-0.076510	-0.422795	0.41497	
BIN-COMP-T	BIME-COMP-T-M	-2.00000	1.914854	-1.04447	0.2963	-0.091520	-0.579041	0.07254	
LA3-REF	BIMW-COMP-T-M	-2.40000	1.914854	-1.25336	0.2101	-0.178070	-0.751000	0.40379	
LA3-REF	BIN-COMP-T	-2.80000	1.914854	-1.46225	0.1437	-0.257290	-0.761545	0.35338	
MCN2-COMP-T	MCN1-COMP-T	-2.80000	1.914854	-1.46225	0.1437	-0.046640	-0.320220	0.10957	
BIMW-COMP-T-M	BIME-COMP-T-M	-3.20000	1.914854	-1.67115	0.0947	-0.073790	-0.629450	0.08199	
LA3-REF	BIME-COMP-T-M	-3.60000	1.914854	-1.88004	0.0601	-0.594449	-0.914975	0.03957	
MCN5-COMP	BIME-COMP-T-M	-4.40000	1.914854	-2.29783	0.0216*	-0.174160	-0.514315	-0.00397	
MCN5-COMP	MCN1-COMP-T	-4.40000	1.914854	-2.29783	0.0216*	-0.251150	-0.720585	-0.07506	
MCN5-COMP	MCN2-COMP-T	-4.40000	1.914854	-2.29783	0.0216*	-0.194700	-0.541985	-0.04033	
MCN5-COMP	MCN3-COMP	-4.40000	1.914854	-2.29783	0.0216*	-0.279540	-0.646795	-0.06127	
MCN5-COMP	MCN4-COMP	-4.80000	1.914854	-2.50672	0.0122*	-0.416140	-0.766385	-0.13805	

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB184**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
LA3-REF	0.560667	0.560667	0.609122	0.776575	0.843536	0.90309	0.90309

**Oneway Anova**

**Summary of Fit**

Rsquare	0
Adj Rsquare	0
Root Mean Square Error	0.131109
Mean of Response	0.736378
Observations (or Sum Wgts)	5

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	0	0.00000000			
Error	4	0.06875869	0.017190		
C. Total	4	0.06875869			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
LA3-REF	5	0.736378	0.05863	0.57358	0.89917

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err	Lower 95%	Upper 95%
LA3-REF	5	0.736378	0.131109	0.05863	0.57358	0.89917

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB184**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
LA3-REF	5	15.000	15.000	3.00000	

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
0.0000	0	

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

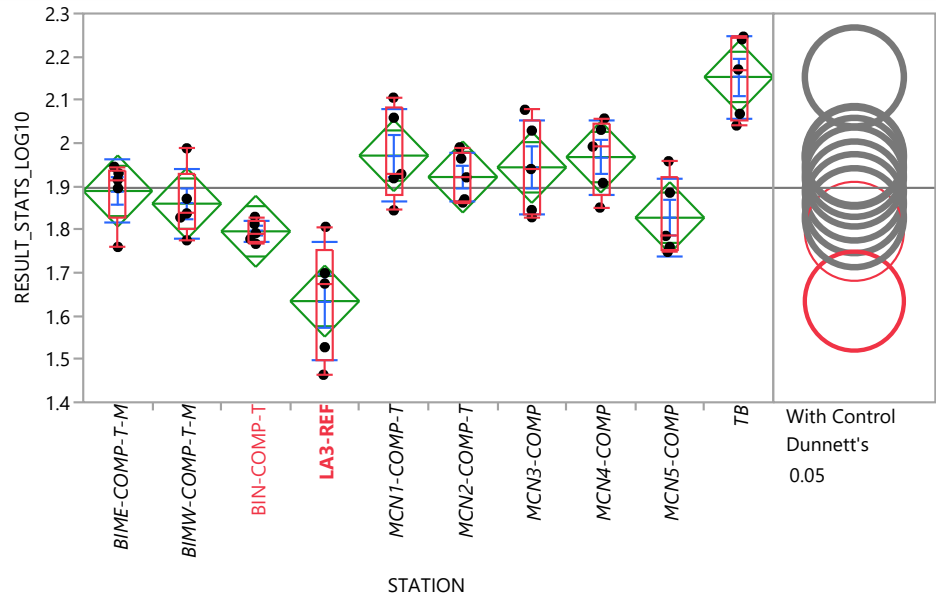
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB187**



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB187**

**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	1.75967	1.75967	1.82769	1.91499	1.937755	1.94515	1.94515
BIMW-COMP-T-M	1.77506	1.77506	1.80145	1.83727	1.929535	1.98794	1.98794
BIN-COMP-T	1.76687	1.76687	1.77251	1.79172	1.821105	1.8293	1.8293
LA3-REF	1.46376	1.46376	1.495665	1.67484	1.752575	1.80618	1.80618
MCN1-COMP-T	1.84443	1.84443	1.881565	1.92845	2.08201	2.10524	2.10524
MCN2-COMP-T	1.86237	1.86237	1.866145	1.92082	1.97726	1.99024	1.99024
MCN3-COMP	1.82846	1.82846	1.83678	1.94	2.053065	2.07717	2.07717
MCN4-COMP	1.85083	1.85083	1.87934	1.99203	2.043855	2.0569	2.0569
MCN5-COMP	1.74819	1.74819	1.75393	1.78533	1.92166	1.95804	1.95804
TB	2.04084	2.04084	2.05433	2.17049	2.24337	2.24641	2.24641

**Oneway Anova**

**Summary of Fit**

Rsquare	0.712166
Adj Rsquare	0.647404
Root Mean Square Error	0.09116
Mean of Response	1.896383
Observations (or Sum Wgts)	50

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	9	0.8224551	0.091384	10.9966	<.0001*
Error	40	0.3324087	0.008310		
C. Total	49	1.1548638			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.88918	0.04077	1.8068	1.9716
BIMW-COMP-T-M	5	1.85985	0.04077	1.7775	1.9422
BIN-COMP-T	5	1.79579	0.04077	1.7134	1.8782
LA3-REF	5	1.63426	0.04077	1.5519	1.7167
MCN1-COMP-T	5	1.97112	0.04077	1.8887	2.0535
MCN2-COMP-T	5	1.92153	0.04077	1.8391	2.0039
MCN3-COMP	5	1.94394	0.04077	1.8615	2.0263
MCN4-COMP	5	1.96768	0.04077	1.8853	2.0501
MCN5-COMP	5	1.82730	0.04077	1.7449	1.9097
TB	5	2.15318	0.04077	2.0708	2.2356

Std Error uses a pooled estimate of error variance



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB187**

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.88918	0.074683	0.03340	1.7964	1.9819
BIMW-COMP-T-M	5	1.85985	0.079464	0.03554	1.7612	1.9585
BIN-COMP-T	5	1.79579	0.025397	0.01136	1.7643	1.8273
LA3-REF	5	1.63426	0.137699	0.06158	1.4633	1.8052
MCN1-COMP-T	5	1.97112	0.107577	0.04811	1.8375	2.1047
MCN2-COMP-T	5	1.92153	0.056375	0.02521	1.8515	1.9915
MCN3-COMP	5	1.94394	0.109658	0.04904	1.8078	2.0801
MCN4-COMP	5	1.96768	0.086273	0.03858	1.8606	2.0748
MCN5-COMP	5	1.82730	0.090896	0.04065	1.7144	1.9402
TB	5	2.15318	0.095516	0.04272	2.0346	2.2718

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-LSD	p-Value
TB	0.357	<.0001*
MCN1-COMP-T	0.175	<.0001*
MCN4-COMP	0.171	<.0001*
MCN3-COMP	0.148	<.0001*
MCN2-COMP-T	0.125	0.0001*
BIME-COMP-T-M	0.093	0.0006*
BIMW-COMP-T-M	0.063	0.0027*
MCN5-COMP	0.031	0.0129*
BIN-COMP-T	-6e-4	0.0512
LA3-REF	-0.16	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	126.500	127.500	25.3000	-0.016
BIMW-COMP-T-M	5	103.000	127.500	20.6000	-0.776
BIN-COMP-T	5	61.000	127.500	12.2000	-2.134
LA3-REF	5	23.000	127.500	4.6000	-3.363
MCN1-COMP-T	5	170.000	127.500	34.0000	1.358
MCN2-COMP-T	5	149.000	127.500	29.8000	0.679

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB187**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

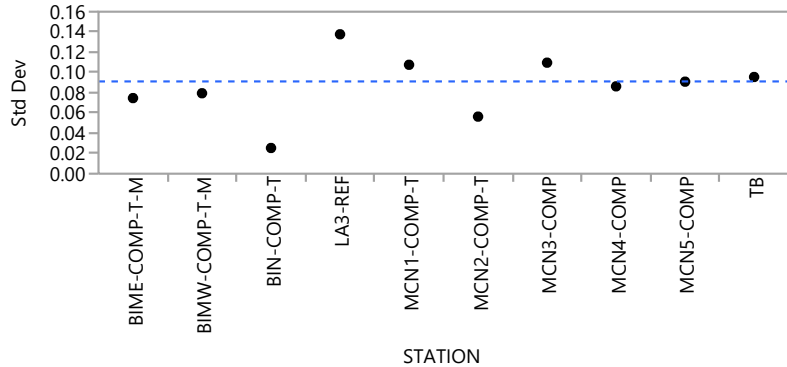
Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
MCN3-COMP	5	155.000	127.500	31.0000	0.873
MCN4-COMP	5	171.000	127.500	34.2000	1.391
MCN5-COMP	5	82.500	127.500	16.5000	-1.439
TB	5	234.000	127.500	46.8000	3.428

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
32.2161	9	0.0002*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.0746828	0.0518024	0.0440260
BIMW-COMP-T-M	5	0.0794640	0.0557496	0.0512340
BIN-COMP-T	5	0.0253974	0.0202520	0.0194380
LA3-REF	5	0.1376986	0.1108792	0.1027640
MCN1-COMP-T	5	0.1075772	0.0887120	0.0801780
MCN2-COMP-T	5	0.0563751	0.0445872	0.0444460
MCN3-COMP	5	0.1096576	0.0873016	0.0865140
MCN4-COMP	5	0.0862729	0.0706752	0.0658060
MCN5-COMP	5	0.0908960	0.0754864	0.0670920
TB	5	0.0955160	0.0790784	0.0756160

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB187**

**Tests that the Variances are Equal**

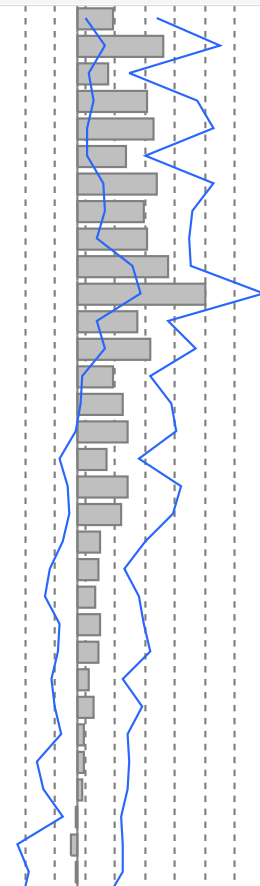
Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.3316	9	40	0.2518
Brown-Forsythe	0.8528	9	40	0.5735
Levene	1.9877	9	40	0.0666
Bartlett	1.0942	9	.	0.3629

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q\* Alpha  
1.95996 0.05

Level	- Level	Score Mean	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
MCN1-COMP-T	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.150300	0.031520	0.327090
MCN1-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.359810	0.112520	0.595020
MCN2-COMP-T	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.129100	0.040620	0.212090
MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.289440	0.063740	0.500520
MCN3-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.317530	0.038920	0.565200
MCN4-COMP	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.200310	0.037920	0.278750
MCN4-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.331840	0.101670	0.567050
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.281170	0.110480	0.480660
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.292760	0.079880	0.465270
TB	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.378770	0.227930	0.473460
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.540250	0.261640	0.776570
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.249670	0.076560	0.377960
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	0.308150	0.109780	0.492140
MCN3-COMP	BIN-COMP-T	4.40000	1.914854	2.29783	0.0216*	0.148280	0.015550	0.299020
TB	MCN4-COMP	4.40000	1.914854	2.29783	0.0216*	0.189510	0.010030	0.389500
TB	MCN3-COMP	4.00000	1.914854	2.08893	0.0367*	0.212380	-0.009350	0.411870
MCN4-COMP	BIMW-COMP-T-M	3.60000	1.914854	1.88004	0.0601	0.120900	-0.080090	0.255750
MCN5-COMP	LA3-REF	3.60000	1.914854	1.88004	0.0601	0.210440	-0.046510	0.430470
TB	MCN1-COMP-T	3.60000	1.914854	1.88004	0.0601	0.181550	-0.037420	0.395900
MCN1-COMP-T	BIMW-COMP-T-M	3.20000	1.914854	1.67115	0.0947	0.091180	-0.069240	0.283720
MCN2-COMP-T	BIMW-COMP-T-M	2.40000	1.914854	1.25336	0.2101	0.083550	-0.118020	0.189220
MCN3-COMP	BIMW-COMP-T-M	2.40000	1.914854	1.25336	0.2101	0.070040	-0.142840	0.253900
MCN4-COMP	BIME-COMP-T-M	2.00000	1.914854	1.04447	0.2963	0.091160	-0.079530	0.271140
MCN1-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.084760	-0.085930	0.299110
MCN4-COMP	MCN2-COMP-T	1.60000	1.914854	0.83557	0.4034	0.045480	-0.113450	0.186980
MCN3-COMP	BIME-COMP-T-M	1.20000	1.914854	0.62668	0.5309	0.068790	-0.101900	0.269290
MCN2-COMP-T	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.025110	-0.075230	0.204610
MCN4-COMP	MCN3-COMP	0.80000	1.914854	0.41779	0.6761	0.022370	-0.178130	0.211800
MCN3-COMP	MCN2-COMP-T	0.00000	1.914854	0.00000	1.0000	0.019180	-0.145140	0.207250
MCN5-COMP	BIN-COMP-T	0.00000	1.914854	0.00000	1.0000	-0.006390	-0.069630	0.179890
MCN3-COMP	MCN1-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.028070	-0.260140	0.184530
MCN4-COMP	MCN1-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.010850	-0.207950	0.186380

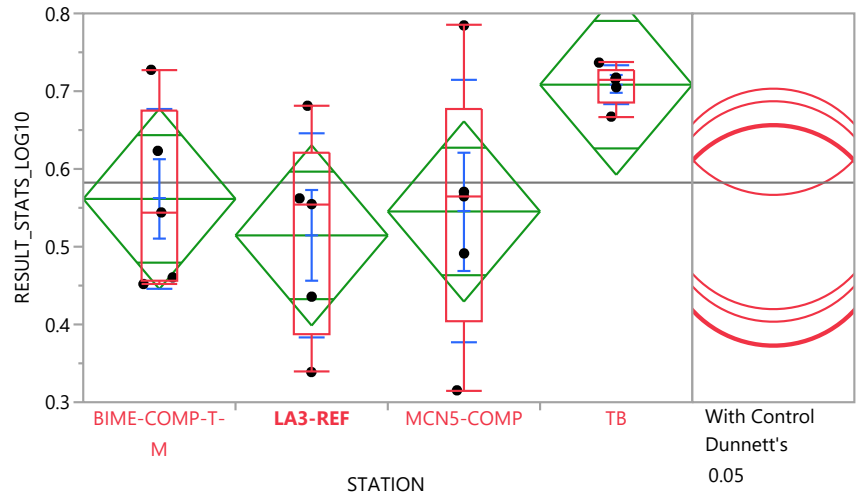


**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB187**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
MCN2-COMP-T	MCN1-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.056330	-0.235320	0.119850	
BIMW-COMP-T-M	BIME-COMP-T-M	-1.20000	1.914854	-0.62668	0.5309	-0.059230	-0.155300	0.111460	
MCN5-COMP	BIMW-COMP-T-M	-1.20000	1.914854	-0.62668	0.5309	-0.042510	-0.228270	0.130200	
MCN5-COMP	BIME-COMP-T-M	-1.80000	1.909043	-0.94288	0.3457	-0.059870	-0.185480	0.125610	
BIN-COMP-T	BIME-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-0.117450	-0.167000	0.053240	
BIN-COMP-T	BIMW-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-0.049690	-0.209790	0.037850	
MCN5-COMP	MCN2-COMP-T	-2.80000	1.914854	-1.46225	0.1437	-0.104960	-0.230570	0.088120	
MCN5-COMP	MCN3-COMP	-2.80000	1.914854	-1.46225	0.1437	-0.096910	-0.317500	0.112940	
MCN5-COMP	MCN1-COMP-T	-3.20000	1.914854	-1.67115	0.0947	-0.147200	-0.345570	0.040850	
LA3-REF	BIN-COMP-T	-3.60000	1.914854	-1.88004	0.0601	-0.130330	-0.349150	0.028030	
MCN5-COMP	MCN4-COMP	-3.60000	1.914854	-1.88004	0.0601	-0.145530	-0.297230	0.050190	
LA3-REF	BIME-COMP-T-M	-4.40000	1.914854	-2.29783	0.0216*	-0.240150	-0.466600	-0.060700	
LA3-REF	BIMW-COMP-T-M	-4.40000	1.914854	-2.29783	0.0216*	-0.196290	-0.460370	-0.021660	

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB189**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.452011	0.452011	0.456267	0.544068	0.675354	0.727459	0.727459
LA3-REF	0.338819	0.338819	0.387274	0.554726	0.621687	0.681241	0.681241
MCN5-COMP	0.31527	0.31527	0.403316	0.564791	0.677555	0.784566	0.784566
TB	0.667256	0.667256	0.68615	0.71536	0.727106	0.736759	0.736759

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB189**

**Oneway Anova**

**Summary of Fit**

Rsquare	0.317724
Adj Rsquare	0.189798
Root Mean Square Error	0.122303
Mean of Response	0.582418
Observations (or Sum Wgts)	20

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	3	0.11145155	0.037151	2.4836	0.0980
Error	16	0.23932893	0.014958		
C. Total	19	0.35078048			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.561462	0.05470	0.44551	0.67741
LA3-REF	5	0.514529	0.05470	0.39858	0.63048
MCN5-COMP	5	0.545306	0.05470	0.42936	0.66126
TB	5	0.708374	0.05470	0.59242	0.82432

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.561462	0.116021	0.05189	0.41740	0.70552
LA3-REF	5	0.514529	0.131109	0.05863	0.35174	0.67732
MCN5-COMP	5	0.545306	0.168885	0.07553	0.33561	0.75500
TB	5	0.708374	0.025684	0.01149	0.67648	0.74027

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.59232	0.05

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB189**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	-0.01	0.0591
BIME-COMP-T-M	-0.15	0.8758
MCN5-COMP	-0.17	0.9587
LA3-REF	-0.2	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

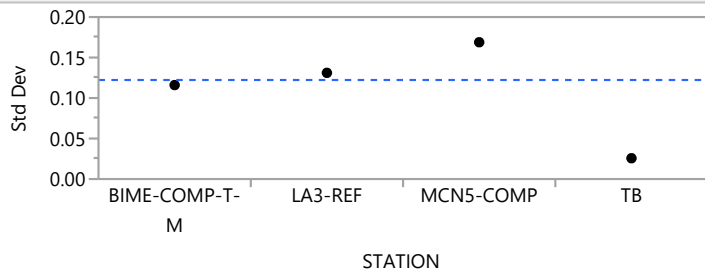
Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	46.000	52.500	9.2000	-0.524
LA3-REF	5	36.000	52.500	7.2000	-1.397
MCN5-COMP	5	48.000	52.500	9.6000	-0.349
TB	5	80.000	52.500	16.0000	2.357

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
6.2343	3	0.1008

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1160211	0.0911138	0.0876350
LA3-REF	5	0.1311089	0.1018043	0.0937650
MCN5-COMP	5	0.1688849	0.1135923	0.1096954
TB	5	0.0256842	0.0177795	0.0163824

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB189**

**Tests that the Variances are Equal**

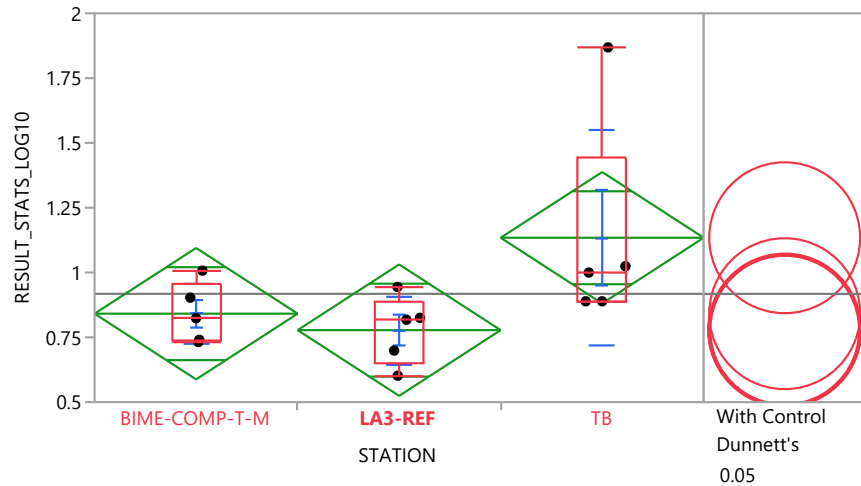
Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.0438	3	16	0.4001
Brown-Forsythe	1.2780	3	16	0.3156
Levene	1.8670	3	16	0.1759
Bartlett	2.9491	3	.	0.0314*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*		Alpha									
1.95996		0.05									
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL			
TB	LA3-REF	4.40000	1.914854	2.29783	0.0216*	0.162727	0.023803	0.3786340			
TB	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	0.171292	-0.022415	0.2762370			
TB	MCN5-COMP	2.80000	1.914854	1.46225	0.1437	0.152662	-0.079522	0.4021830			
MCN5-COMP	LA3-REF	0.80000	1.914854	0.41779	0.6761	0.010065	-0.246862	0.3488370			
MCN5-COMP	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.020723	-0.307979	0.3240440			
LA3-REF	BIME-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.046218	-0.291730	0.2207190			

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB194**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.731851	0.731851	0.736107	0.823909	0.955195	1.0073	1.0073
LA3-REF	0.60206	0.60206	0.650515	0.817968	0.884928	0.944483	0.944483
TB	0.889104	0.889104	0.889104	1	1.44654	1.86872	1.86872

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB194**

**Oneway Anova**

**Summary of Fit**

Rsquare	0.308004
Adj Rsquare	0.192672
Root Mean Square Error	0.260183
Mean of Response	0.917777
Observations (or Sum Wgts)	15

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	2	0.3615696	0.180785	2.6706	0.1098
Error	12	0.8123406	0.067695		
C. Total	14	1.1739102			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.84130	0.11636	0.58778	1.0948
LA3-REF	5	0.77777	0.11636	0.52425	1.0313
TB	5	1.13426	0.11636	0.88074	1.3878

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.84130	0.116021	0.05189	0.69724	0.9854
LA3-REF	5	0.77777	0.131109	0.05863	0.61498	0.9406
TB	5	1.13426	0.415252	0.18571	0.61865	1.6499

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.50237	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	-0.06	0.0903
BIME-COMP-T-M	-0.35	0.8983
LA3-REF	-0.41	1.0000

Positive values show pairs of means that are significantly different.



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB194**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

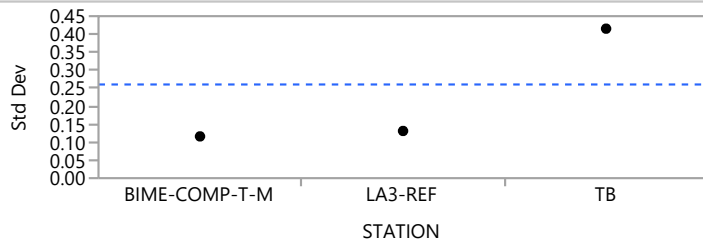
Level	Count	Score Sum	Expected Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	36.000	40.000	7.2000	-0.429
LA3-REF	5	26.000	40.000	5.2000	-1.655
TB	5	58.000	40.000	11.6000	2.145

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
5.3696	2	0.0682

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1160213	0.0911139	0.0876352
LA3-REF	5	0.1311093	0.1018046	0.0937652
TB	5	0.4152524	0.2937850	0.2229744

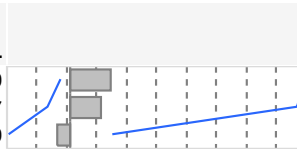
Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.1339	2	12	0.3540
Brown-Forsythe	0.6031	2	12	0.5629
Levene	2.7150	2	12	0.1065
Bartlett	3.6917	2	.	0.0249*

Warning: Small sample sizes. Use Caution.

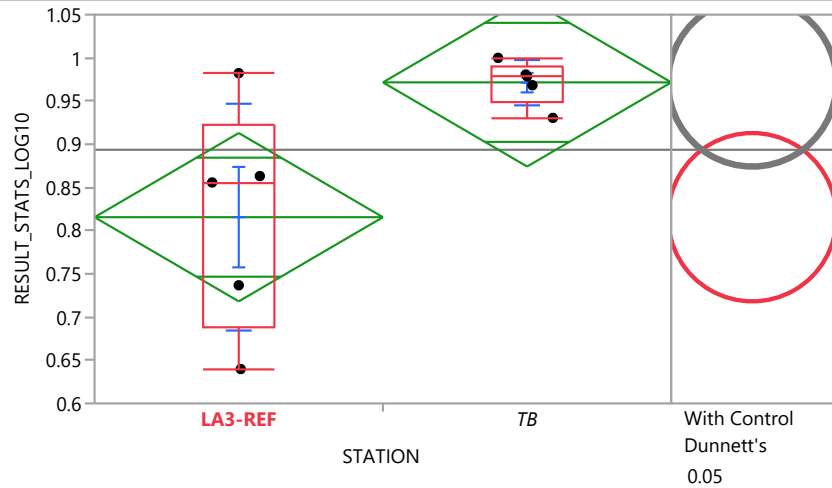
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	LA3-REF	4.00000	1.909043	2.09529	0.0361*	0.198987	-0.055379	1.169750
TB	BIME-COMP-T-M	2.80000	1.909043	1.46670	0.1425	0.157253	-0.118196	1.128357
LA3-REF	BIME-COMP-T-M	-1.20000	1.914854	-0.62668	0.5309	-0.062817	-0.308330	0.204120



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB195**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
LA3-REF	0.639849	0.639849	0.688304	0.855756	0.922717	0.982271	0.982271
TB	0.930497	0.930497	0.949392	0.978602	0.990348	1	1

**Oneway Anova**

**Summary of Fit**

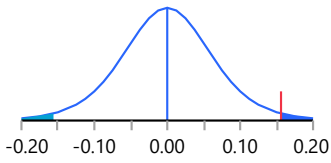
Rsquare	0.460264
Adj Rsquare	0.392796
Root Mean Square Error	0.09447
Mean of Response	0.893588
Observations (or Sum Wgts)	10

**t Test**

TB-LA3-REF

Assuming equal variances

Difference	0.156057	t Ratio	2.611905
Std Err Dif	0.059748	DF	8
Upper CL Dif	0.293836	Prob >  t	0.0310*
Lower CL Dif	0.018277	Prob > t	0.0155*
Confidence	0.95	Prob < t	0.9845



**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	1	0.06088416	0.060884	6.8220	0.0310*
Error	8	0.07139692	0.008925		
C. Total	9	0.13228108			

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB195**

**Oneway Anova**

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
LA3-REF	5	0.815559	0.04225	0.71813	0.9130
TB	5	0.971616	0.04225	0.87419	1.0690

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

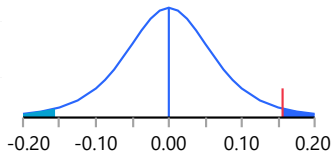
Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
LA3-REF	5	0.815559	0.131109	0.05863	0.65277	0.9784
TB	5	0.971616	0.025684	0.01149	0.93972	1.0035

**t Test**

TB-LA3-REF

Assuming unequal variances

Difference	0.15606	t Ratio	2.611905
Std Err Dif	0.05975	DF	4.306566
Upper CL Dif	0.31739	Prob >  t	0.0551
Lower CL Dif	-0.00528	Prob > t	0.0275*
Confidence	0.95	Prob < t	0.9725



**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.30600	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	0.018	0.0310*
LA3-REF	-0.14	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
LA3-REF	5	19.000	27.500	3.80000	-1.671
TB	5	36.000	27.500	7.20000	1.671

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB195**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

**2-Sample Test, Normal Approximation**

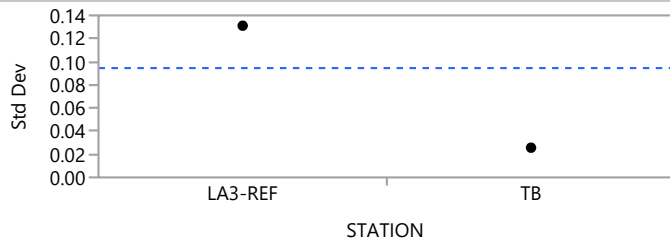
S	Z	Prob> Z
36	1.67115	0.0947

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
3.1527	1	0.0758

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
LA3-REF	5	0.1311089	0.1018043	0.0937650
TB	5	0.0256844	0.0177796	0.0163824

Test	F Ratio	DFNum	DFDen	p-Value
O'Brien[.5]	3.1013	1	8	0.1163
Brown-Forsythe	3.4796	1	8	0.0991
Levene	7.8465	1	8	0.0232*
Bartlett	6.9309	1	.	0.0085*
F Test 2-sided	26.0572	4	4	0.0080*

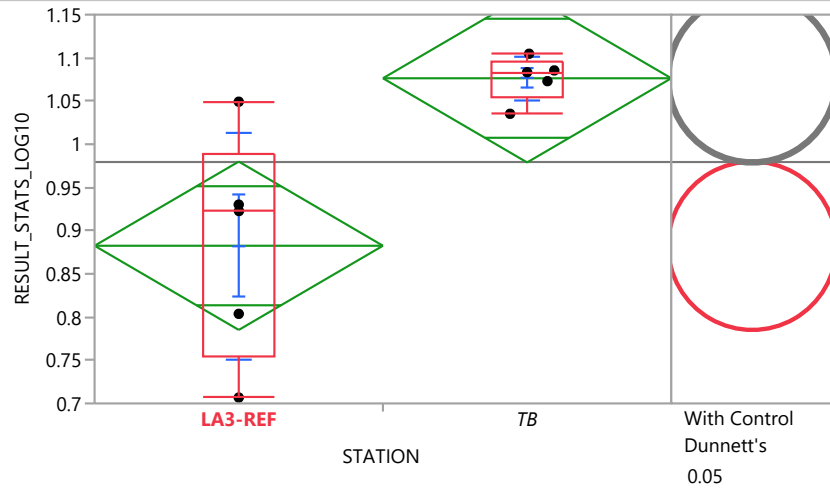
Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	LA3-REF	3.200000	1.914854	1.671145	0.0947	0.1249390	-0.013985	0.3408460

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB200**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
LA3-REF	0.706795	0.706795	0.75525	0.922703	0.989665	1.04922	1.04922
TB	1.03523	1.03523	1.054125	1.08334	1.095085	1.10474	1.10474

**Oneway Anova**

**Summary of Fit**

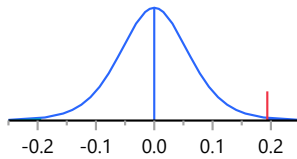
Rsquare	0.568168
Adj Rsquare	0.514189
Root Mean Square Error	0.094471
Mean of Response	0.979429
Observations (or Sum Wgts)	10

**t Test**

TB-LA3-REF

Assuming equal variances

Difference	0.193846	t Ratio	3.244338
Std Err Dif	0.059749	DF	8
Upper CL Dif	0.331627	Prob >  t	0.0118*
Lower CL Dif	0.056064	Prob > t	0.0059*
Confidence	0.95	Prob < t	0.9941



**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	1	0.09394029	0.093940	10.5257	0.0118*
Error	8	0.07139860	0.008925		
C. Total	9	0.16533889			

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB200**

**Oneway Anova**

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
LA3-REF	5	0.88251	0.04225	0.78508	0.9799
TB	5	1.07635	0.04225	0.97893	1.1738

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

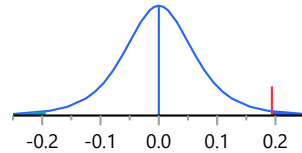
Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
LA3-REF	5	0.88251	0.131110	0.05863	0.7197	1.0453
TB	5	1.07635	0.025687	0.01149	1.0445	1.1082

**t Test**

TB-LA3-REF

Assuming unequal variances

Difference	0.193846	t Ratio	3.244338
Std Err Dif	0.059749	DF	4.306618
Upper CL Dif	0.355179	Prob >  t	0.0283*
Lower CL Dif	0.032512	Prob > t	0.0142*
Confidence	0.95	Prob < t	0.9858



**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.30600	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	0.056	0.0118*
LA3-REF	-0.14	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
LA3-REF	5	16.000	27.500	3.20000	-2.298
TB	5	39.000	27.500	7.80000	2.298

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB200**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

**2-Sample Test, Normal Approximation**

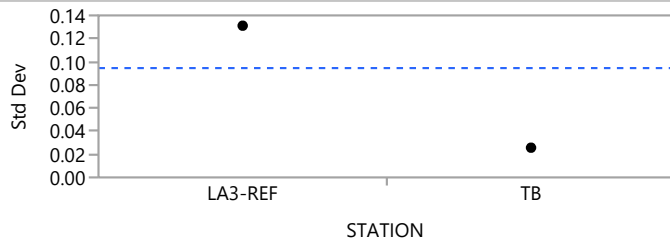
S	Z	Prob> Z
39	2.29783	0.0216*

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
5.7709	1	0.0163*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
LA3-REF	5	0.1311100	0.1018051	0.0937658
TB	5	0.0256868	0.0177816	0.0163840

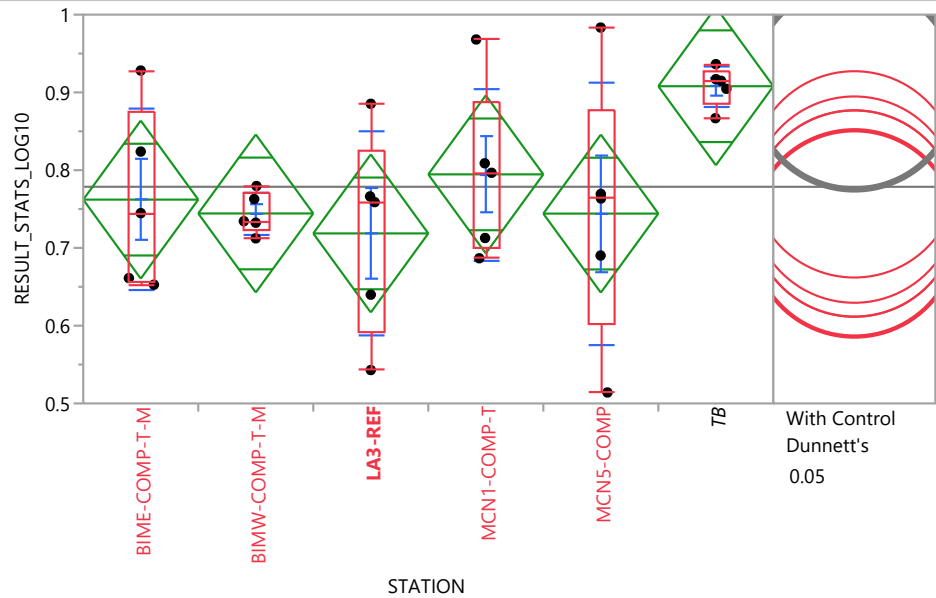
Test	F Ratio	DFNum	DFDen	p-Value
O'Brien[.5]	3.1012	1	8	0.1163
Brown-Forsythe	3.4794	1	8	0.0991
Levene	7.8460	1	8	0.0232*
Bartlett	6.9303	1	.	0.0085*
F Test 2-sided	26.0527	4	4	0.0080*

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*		Alpha						
1.95996		0.05						
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	LA3-REF	4.400000	1.914854	2.297825	0.0216*	0.1627270	0.0238000	0.3786350

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB201**



Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.65267	0.65267	0.656926	0.744727	0.876014	0.928118	0.928118
BIMW-COMP-T-M	0.712334	0.712334	0.722364	0.734372	0.771243	0.779616	0.779616
LA3-REF	0.542939	0.542939	0.591394	0.758846	0.825807	0.885361	0.885361
MCN1-COMP-T	0.686704	0.686704	0.699731	0.796635	0.888426	0.968031	0.968031
MCN5-COMP	0.514105	0.514105	0.602151	0.763625	0.876389	0.983401	0.983401
TB	0.866828	0.866828	0.885723	0.914933	0.926679	0.936331	0.936331

**Oneway Anova**

**Summary of Fit**

Rsquare	0.285276
Adj Rsquare	0.136375
Root Mean Square Error	0.110077
Mean of Response	0.778628
Observations (or Sum Wgts)	30

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	5	0.11607344	0.023215	1.9159	0.1289
Error	24	0.29080762	0.012117		
C. Total	29	0.40688106			



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB201**

**Oneway Anova**

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.762121	0.04923	0.66052	0.8637
BIMW-COMP-T-M	5	0.744317	0.04923	0.64272	0.8459
LA3-REF	5	0.718649	0.04923	0.61705	0.8203
MCN1-COMP-T	5	0.794590	0.04923	0.69299	0.8962
MCN5-COMP	5	0.744141	0.04923	0.64254	0.8457
TB	5	0.907947	0.04923	0.80635	1.0095

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	0.762121	0.116021	0.05189	0.61806	0.90618
BIMW-COMP-T-M	5	0.744317	0.026712	0.01195	0.71115	0.77749
LA3-REF	5	0.718649	0.131109	0.05863	0.55586	0.88144
MCN1-COMP-T	5	0.794590	0.110255	0.04931	0.65769	0.93149
MCN5-COMP	5	0.744141	0.168885	0.07553	0.53444	0.95384
TB	5	0.907947	0.025684	0.01149	0.87606	0.93984

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.69532	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	0.002	0.0475*
MCN1-COMP-T	-0.11	0.7146
BIME-COMP-T-M	-0.14	0.9547
BIMW-COMP-T-M	-0.16	0.9953
MCN5-COMP	-0.16	0.9954
LA3-REF	-0.19	1.0000

Positive values show pairs of means that are significantly different.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB201**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

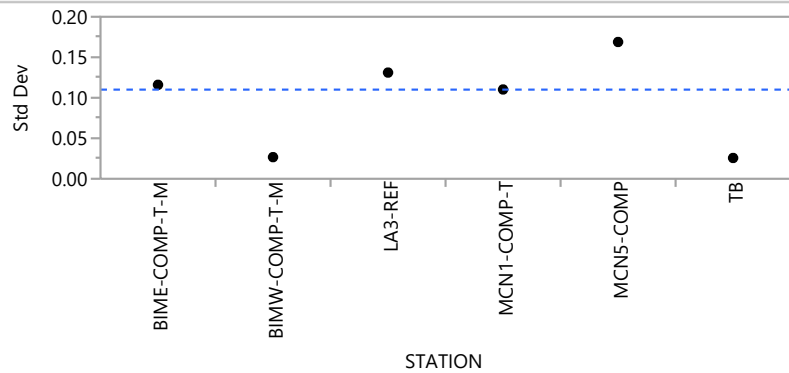
Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	69.000	77.500	13.8000	-0.445
BIMW-COMP-T-M	5	61.000	77.500	12.2000	-0.890
LA3-REF	5	57.000	77.500	11.4000	-1.113
MCN1-COMP-T	5	83.000	77.500	16.6000	0.278
MCN5-COMP	5	70.000	77.500	14.0000	-0.390
TB	5	125.000	77.500	25.0000	2.615

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
8.0194	5	0.1552

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif	
			to Mean	to Median
BIME-COMP-T-M	5	0.1160212	0.0911140	0.0876352
BIMW-COMP-T-M	5	0.0267124	0.0215406	0.0195516
LA3-REF	5	0.1311089	0.1018043	0.0937650
MCN1-COMP-T	5	0.1102546	0.0758869	0.0754778
MCN5-COMP	5	0.1688849	0.1135922	0.1096954
TB	5	0.0256844	0.0177796	0.0163824

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.1733	5	24	0.3511
Brown-Forsythe	1.4629	5	24	0.2387
Levene	2.0267	5	24	0.1109
Bartlett	3.2289	5	.	0.0064*

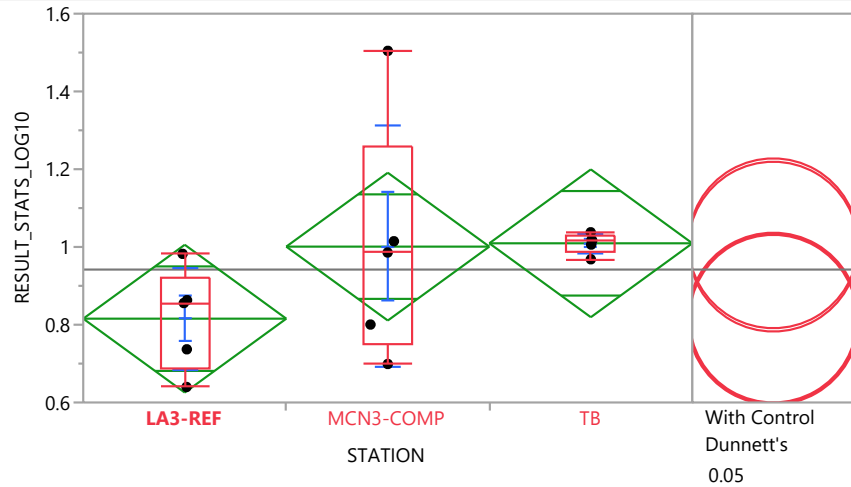
Warning: Small sample sizes. Use Caution.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB201**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*		Alpha									
1.95996		0.05									
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL			
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.170245	0.103958	0.2046920			
TB	LA3-REF	4.40000	1.914854	2.29783	0.0216*	0.158180	0.019256	0.3740870			
TB	BIME-COMP-T-M	3.20000	1.914854	1.67115	0.0947	0.170206	-0.023501	0.2751500			
TB	MCN1-COMP-T	2.80000	1.914854	1.46225	0.1437	0.120391	-0.063414	0.2303220			
TB	MCN5-COMP	2.80000	1.914854	1.46225	0.1437	0.153401	-0.078784	0.4029210			
MCN1-COMP-T	LA3-REF	1.60000	1.914854	0.83557	0.4034	0.049974	-0.172603	0.3281820			
MCN1-COMP-T	BIMW-COMP-T-M	1.20000	1.914854	0.62668	0.5309	0.033765	-0.076166	0.2356370			
MCN1-COMP-T	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.039913	-0.215360	0.3068500			
MCN5-COMP	LA3-REF	0.40000	1.914854	0.20889	0.8345	0.004779	-0.252147	0.3435520			
BIMW-COMP-T-M	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.010355	-0.195724	0.1184350			
LA3-REF	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.004024	-0.219931	0.1529670			
MCN5-COMP	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.018898	-0.309804	0.3222200			
MCN5-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.000755	-0.248765	0.2510070			
LA3-REF	BIME-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.042757	-0.288269	0.2241800			
MCN5-COMP	MCN1-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.033010	-0.294715	0.2706430			

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB203**



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
LA3-REF	0.639849	0.639849	0.688304	0.855756	0.922717	0.982271	0.982271
MCN3-COMP	0.69897	0.69897	0.749699	0.98576	1.25956	1.5044	1.5044
TB	0.968286	0.968286	0.987178	1.01639	1.028135	1.03779	1.03779

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB203**

**Oneway Anova**

**Summary of Fit**

Rsquare	0.208049
Adj Rsquare	0.076057
Root Mean Square Error	0.195081
Mean of Response	0.941939
Observations (or Sum Wgts)	15

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	2	0.11997194	0.059986	1.5762	0.2467
Error	12	0.45668013	0.038057		
C. Total	14	0.57665206			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
LA3-REF	5	0.81556	0.08724	0.62547	1.0056
MCN3-COMP	5	1.00086	0.08724	0.81077	1.1909
TB	5	1.00940	0.08724	0.81932	1.1995

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
LA3-REF	5	0.81556	0.131109	0.05863	0.65277	0.9784
MCN3-COMP	5	1.00086	0.310356	0.13880	0.61550	1.3862
TB	5	1.00940	0.025684	0.01149	0.97751	1.0413

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.50237	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	-0.11	0.2391
MCN3-COMP	-0.12	0.2654
LA3-REF	-0.31	1.0000

Positive values show pairs of means that are significantly different.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB203**

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

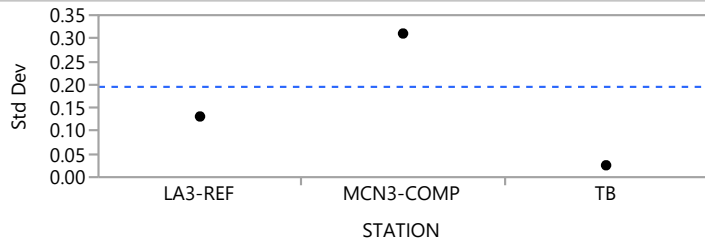
Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
LA3-REF	5	23.000	40.000	4.6000	-2.021
MCN3-COMP	5	41.000	40.000	8.2000	0.061
TB	5	56.000	40.000	11.2000	1.898

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
5.4600	2	0.0652

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
LA3-REF	5	0.1311089	0.1018043	0.0937650
MCN3-COMP	5	0.3103559	0.2069635	0.2039444
TB	5	0.0256844	0.0177802	0.0163828

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.6264	2	12	0.2371
Brown-Forsythe	2.5041	2	12	0.1233
Levene	2.8507	2	12	0.0971
Bartlett	7.0582	2	.	0.0009*

Warning: Small sample sizes. Use Caution.

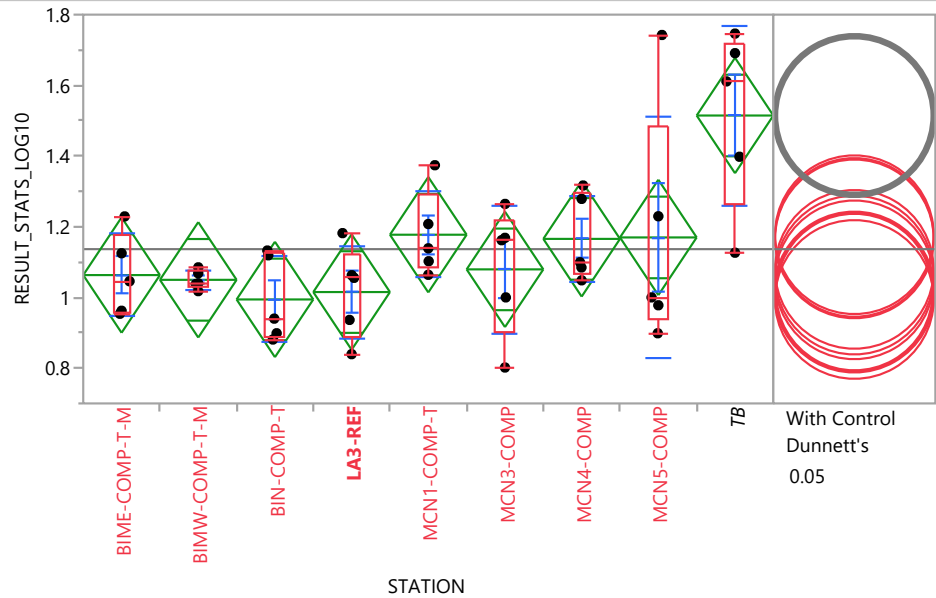
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*	Alpha
1.95996	0.05

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	LA3-REF	4.400000	1.914854	2.297825	0.0216*	0.1627240	0.023799	0.3786310
MCN3-COMP	LA3-REF	2.000000	1.914854	1.044466	0.2963	0.1300040	-0.181843	0.7676410
TB	MCN3-COMP	1.600000	1.914854	0.835573	0.4034	0.0306300	-0.498330	0.3195100



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB206**



Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	0.9537	0.9537	0.957956	1.04576	1.177045	1.22915	1.22915
BIMW-COMP-T-M	1.01773	1.01773	1.02776	1.03977	1.076635	1.08501	1.08501
BIN-COMP-T	0.880814	0.880814	0.889678	0.939935	1.12584	1.13263	1.13263
LA3-REF	0.839421	0.839421	0.887876	1.05533	1.122285	1.18184	1.18184
MCN1-COMP-T	1.06391	1.06391	1.08314	1.13887	1.290775	1.37394	1.37394
MCN3-COMP	0.801632	0.801632	0.900816	1.16178	1.216525	1.26451	1.26451
MCN4-COMP	1.0483	1.0483	1.06646	1.09946	1.297645	1.31654	1.31654
MCN5-COMP	0.898542	0.898542	0.938133	1	1.48599	1.74244	1.74244
TB	1.12647	1.12647	1.262205	1.61114	1.718695	1.74639	1.74639

**Oneway Anova**

**Summary of Fit**

Rsquare	0.458705
Adj Rsquare	0.338417
Root Mean Square Error	0.180018
Mean of Response	1.13651
Observations (or Sum Wgts)	45

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB206**

**Oneway Anova**

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	8	0.9886328	0.123579	3.8134	0.0025*
Error	36	1.1666360	0.032407		
C. Total	44	2.1552688			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.06315	0.08051	0.8999	1.2264
BIMW-COMP-T-M	5	1.04971	0.08051	0.8864	1.2130
BIN-COMP-T	5	0.99419	0.08051	0.8309	1.1575
LA3-REF	5	1.01513	0.08051	0.8519	1.1784
MCN1-COMP-T	5	1.17734	0.08051	1.0141	1.3406
MCN3-COMP	5	1.07929	0.08051	0.9160	1.2426
MCN4-COMP	5	1.16553	0.08051	1.0023	1.3288
MCN5-COMP	5	1.16965	0.08051	1.0064	1.3329
TB	5	1.51459	0.08051	1.3513	1.6779

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	1.06315	0.116022	0.05189	0.9191	1.2072
BIMW-COMP-T-M	5	1.04971	0.026710	0.01195	1.0165	1.0829
BIN-COMP-T	5	0.99419	0.122170	0.05464	0.8425	1.1459
LA3-REF	5	1.01513	0.131108	0.05863	0.8523	1.1779
MCN1-COMP-T	5	1.17734	0.121999	0.05456	1.0259	1.3288
MCN3-COMP	5	1.07929	0.181974	0.08138	0.8533	1.3052
MCN4-COMP	5	1.16553	0.122757	0.05490	1.0131	1.3180
MCN5-COMP	5	1.16965	0.343071	0.15343	0.7437	1.5956
TB	5	1.51459	0.254174	0.11367	1.1990	1.8302

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.78823	0.05

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB206****Means Comparisons****Comparisons with a control using Dunnett's Method****LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	0.182	0.0007*
MCN1-COMP-T	-0.16	0.6039
MCN5-COMP	-0.16	0.6525
MCN4-COMP	-0.17	0.6784
MCN3-COMP	-0.25	0.9948
BIME-COMP-T-M	-0.27	0.9993
BIMW-COMP-T-M	-0.28	0.9999
LA3-REF	-0.32	1.0000
BIN-COMP-T	-0.3	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	95.000	115.000	19.0000	-0.704
BIMW-COMP-T-M	5	86.000	115.000	17.2000	-1.029
BIN-COMP-T	5	69.500	115.000	13.9000	-1.625
LA3-REF	5	78.000	115.000	15.6000	-1.318
MCN1-COMP-T	5	149.000	115.000	29.8000	1.210
MCN3-COMP	5	112.500	115.000	22.5000	-0.072
MCN4-COMP	5	140.000	115.000	28.0000	0.885
MCN5-COMP	5	106.000	115.000	21.2000	-0.307
TB	5	199.000	115.000	39.8000	3.016

**1-Way Test, ChiSquare Approximation**

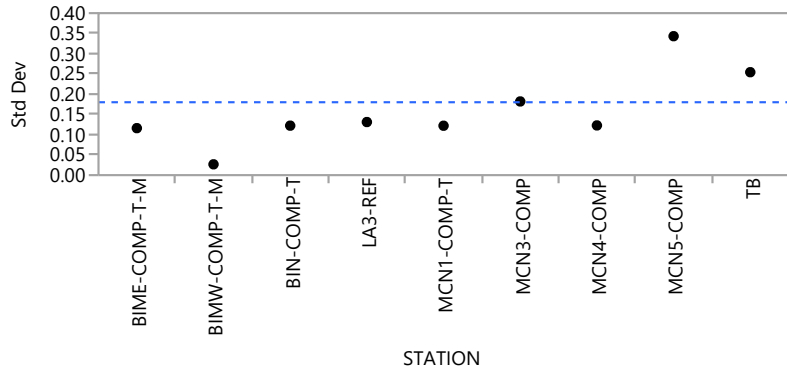
ChiSquare	DF	Prob>ChiSq
15.7754	8	0.0457*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB206**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1160220	0.0911142	0.0876358
BIMW-COMP-T-M	5	0.0267105	0.0215384	0.0195500
BIN-COMP-T	5	0.1221699	0.1053166	0.0944648
LA3-REF	5	0.1311077	0.1018035	0.0937636
MCN1-COMP-T	5	0.1219986	0.0907480	0.0830540
MCN3-COMP	5	0.1819735	0.1427811	0.1262836
MCN4-COMP	5	0.1227572	0.1056888	0.0924740
MCN5-COMP	5	0.3430712	0.2530726	0.2191428
TB	5	0.2541741	0.2019064	0.1825960

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.2613	8	36	0.2938
Brown-Forsythe	0.8270	8	36	0.5846
Levene	2.8417	8	36	0.0149*
Bartlett	2.5840	8	.	0.0081*

Warning: Small sample sizes. Use Caution.

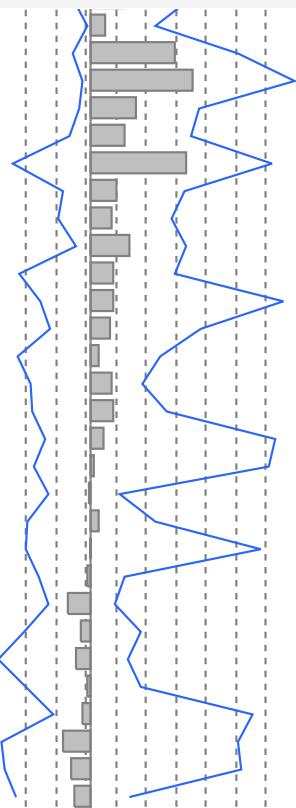
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

		q*	Alpha						
		1.95996	0.05						
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.571370	0.058210	0.7086000	
TB	BIME-COMP-T-M	4.40000	1.914854	2.29783	0.0216*	0.486200	0.001530	0.7841790	
TB	BIN-COMP-T	4.40000	1.914854	2.29783	0.0216*	0.558370	0.007420	0.8478480	
TB	LA3-REF	4.40000	1.914854	2.29783	0.0216*	0.555810	0.063740	0.8515790	
MCN1-COMP-T	BIMW-COMP-T-M	4.00000	1.914854	2.08893	0.0367*	0.099100	-0.004350	0.3361500	
TB	MCN4-COMP	4.00000	1.914854	2.08893	0.0367*	0.374460	-0.152280	0.6617700	
MCN1-COMP-T	LA3-REF	3.60000	1.914854	1.88004	0.0601	0.152280	-0.079470	0.4376090	

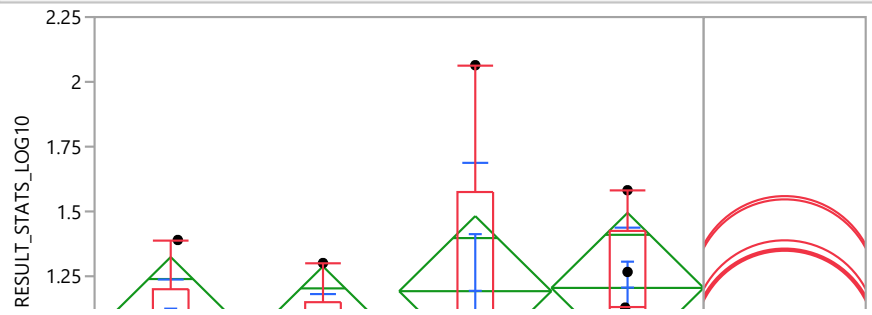
**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB206**

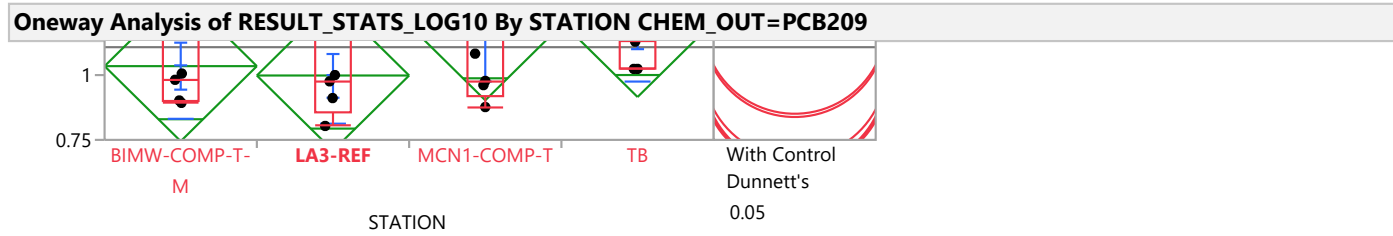
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
MCN4-COMP	BIMW-COMP-T-M	3.60000	1.914854	1.88004	0.0601	0.061670	-0.019960	0.2787500
TB	MCN1-COMP-T	3.60000	1.914854	1.88004	0.0601	0.372450	-0.081140	0.6440200
TB	MCN3-COMP	3.60000	1.914854	1.88004	0.0601	0.449360	-0.042070	0.8893680
MCN1-COMP-T	BIN-COMP-T	3.20000	1.914854	1.67115	0.0947	0.198935	-0.055140	0.4753980
MCN4-COMP	LA3-REF	2.80000	1.914854	1.46225	0.1437	0.148289	-0.097220	0.4393290
TB	MCN5-COMP	2.80000	1.914854	1.46225	0.1437	0.420216	-0.344500	0.7924580
MCN1-COMP-T	BIME-COMP-T-M	2.40000	1.914854	1.25336	0.2101	0.110210	-0.126780	0.4117290
MCN4-COMP	BIME-COMP-T-M	2.40000	1.914854	1.25336	0.2101	0.094600	-0.144530	0.3543290
MCN4-COMP	BIN-COMP-T	2.40000	1.914854	1.25336	0.2101	0.167486	-0.070750	0.4179980
MCN3-COMP	BIN-COMP-T	2.00000	1.914854	1.04447	0.2963	0.101458	-0.317418	0.3659680
MCN5-COMP	BIN-COMP-T	1.80000	1.909043	0.94288	0.3457	0.096910	-0.220508	0.8438980
MCN4-COMP	MCN3-COMP	1.20000	1.914854	0.62668	0.5309	0.084620	-0.179890	0.4771180
MCN3-COMP	BIME-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.037789	-0.323308	0.3022990
MCN3-COMP	BIMW-COMP-T-M	0.80000	1.914854	0.41779	0.6761	0.093520	-0.266628	0.2267200
MCN3-COMP	LA3-REF	0.80000	1.914854	0.41779	0.6761	0.099050	-0.261098	0.3291190
MCN5-COMP	LA3-REF	0.80000	1.914854	0.41779	0.6761	0.059121	-0.204116	0.8061090
MCN5-COMP	BIME-COMP-T-M	0.40000	1.914854	0.20889	0.8345	0.015513	-0.251426	0.7802290
BIMW-COMP-T-M	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	-0.005990	-0.191360	0.1227990
LA3-REF	BIN-COMP-T	0.00000	1.914854	0.00000	1.0000	0.037789	-0.279629	0.2832980
MCN5-COMP	MCN3-COMP	0.00000	1.909043	0.00000	1.0000	0.000000	-0.286786	0.7424400
LA3-REF	BIMW-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-0.012930	-0.228839	0.1440500
BIN-COMP-T	BIMW-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.099835	-0.187446	0.1013200
LA3-REF	BIME-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.047310	-0.292819	0.2196290
MCN3-COMP	MCN1-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.063910	-0.405978	0.1621400
MCN4-COMP	MCN1-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.017750	-0.289320	0.2148400
MCN5-COMP	BIMW-COMP-T-M	-0.80000	1.914854	-0.41779	0.6761	-0.039770	-0.169718	0.7046500
MCN5-COMP	MCN1-COMP-T	-1.20000	1.914854	-0.62668	0.5309	-0.124646	-0.396216	0.6400700
MCN5-COMP	MCN4-COMP	-1.60000	1.914854	-0.83557	0.4034	-0.087000	-0.380208	0.6578200
BIN-COMP-T	BIME-COMP-T-M	-2.00000	1.914854	-1.04447	0.2963	-0.072886	-0.330608	0.1704190



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB209**





**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIMW-COMP-T-M	0.89279	0.89279	0.897362	0.981775	1.1979	1.38997	1.38997
LA3-REF	0.803705	0.803705	0.857489	0.975866	1.150515	1.30103	1.30103
MCN1-COMP-T	0.876615	0.876615	0.918931	0.977434	1.573455	2.06424	2.06424
TB	1.0238	1.0238	1.0238	1.12909	1.42426	1.58186	1.58186

**Oneway Anova**

**Summary of Fit**

Rsquare	0.102091
Adj Rsquare	-0.06627
Root Mean Square Error	0.30557
Mean of Response	1.107579
Observations (or Sum Wgts)	20

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	3	0.1698632	0.056621	0.6064	0.6204
Error	16	1.4939716	0.093373		
C. Total	19	1.6638347			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIMW-COMP-T-M	5	1.03446	0.13666	0.74476	1.3242
LA3-REF	5	0.99837	0.13666	0.70868	1.2881
MCN1-COMP-T	5	1.19244	0.13666	0.90275	1.4821
TB	5	1.20504	0.13666	0.91535	1.4947

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err	Lower 95%	Upper 95%
BIMW-COMP-T-M	5	1.03446	0.204705	0.09155	0.78028	1.2886
LA3-REF	5	0.99837	0.185467	0.08294	0.76809	1.2287
MCN1-COMP-T	5	1.19244	0.492826	0.22040	0.58052	1.8044
TB	5	1.20504	0.233053	0.10422	0.91567	1.4944

**Means Comparisons**

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB209**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.59232	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	-0.29	0.5888
MCN1-COMP-T	-0.31	0.6319
BIMW-COMP-T-M	-0.46	0.9953
LA3-REF	-0.5	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

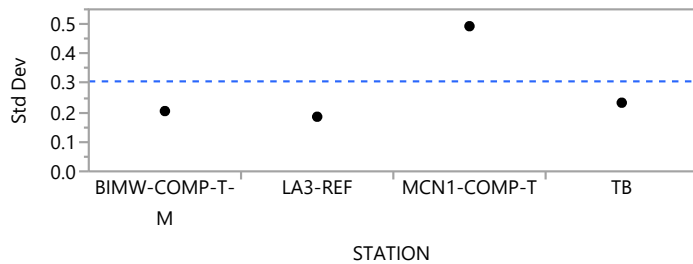
Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIMW-COMP-T-M	5	45.000	52.500	9.0000	-0.611
LA3-REF	5	40.000	52.500	8.0000	-1.048
MCN1-COMP-T	5	50.000	52.500	10.0000	-0.175
TB	5	75.000	52.500	15.0000	1.921

**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
4.1460	3	0.2461

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Tests that the Variances are Equal**



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=PCB209**

**Tests that the Variances are Equal**

Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIMW-COMP-T-M	5	0.2047050	0.1422042	0.1202154
LA3-REF	5	0.1854673	0.1217122	0.1172104
MCN1-COMP-T	5	0.4928255	0.3487195	0.2618096
TB	5	0.2330529	0.1753744	0.1601840

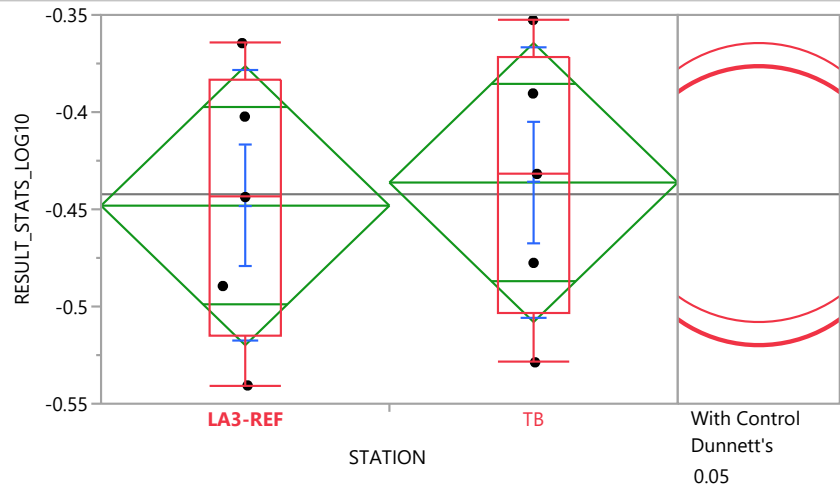
Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	0.8667	3	16	0.4786
Brown-Forsythe	0.3150	3	16	0.8143
Levene	1.5396	3	16	0.2428
Bartlett	1.6733	3	.	0.1703

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*		Alpha							
1.95996		0.05							
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
TB	BIMW-COMP-T-M	3.20000	1.909043	1.67623	0.0937	0.131010	-0.36617	0.679927	
TB	LA3-REF	3.20000	1.909043	1.67623	0.0937	0.217817	-0.27723	0.670587	
TB	MCN1-COMP-T	2.00000	1.909043	1.04765	0.2948	0.147185	-1.04044	0.620613	
MCN1-COMP-T	LA3-REF	0.80000	1.914854	0.41779	0.6761	0.066161	-0.33978	1.152967	
MCN1-COMP-T	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.059314	-0.42872	1.162307	
LA3-REF	BIMW-COMP-T-M	-0.40000	1.914854	-0.20889	0.8345	-0.005909	-0.47870	0.399097	

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=Total Butyltins (ND = 0)**



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=Total Butyltins (ND = 0)**

**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
LA3-REF	-0.54061	-0.54061	-0.51503	-0.4437	-0.38341	-0.36452	-0.36452
TB	-0.52871	-0.52871	-0.50313	-0.4318	-0.37151	-0.35262	-0.35262

**Oneway Anova**

**Summary of Fit**

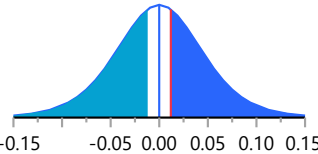
Rsquare	0.009054
Adj Rsquare	-0.11481
Root Mean Square Error	0.069589
Mean of Response	-0.44217
Observations (or Sum Wgts)	10

**t Test**

TB-LA3-REF

Assuming equal variances

Difference	0.01190	t Ratio	0.270361
Std Err Dif	0.04401	DF	8
Upper CL Dif	0.11339	Prob >  t	0.7937
Lower CL Dif	-0.08959	Prob > t	0.3969
Confidence	0.95	Prob < t	0.6031



**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	1	0.00035398	0.000354	0.0731	0.7937
Error	8	0.03874145	0.004843		
C. Total	9	0.03909543			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
LA3-REF	5	-0.44812	0.03112	-0.5199	-0.3764
TB	5	-0.43622	0.03112	-0.5080	-0.3645

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err	Lower 95%	Upper 95%
LA3-REF	5	-0.44812	0.069590	0.03112	-0.5345	-0.3617
TB	5	-0.43622	0.069589	0.03112	-0.5226	-0.3498

**t Test**

TB-LA3-REF

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=Total Butyltins (ND = 0)**

**t Test**

Assuming unequal variances

Difference	0.01190	t Ratio	0.270361
Std Err Dif	0.04401	DF	8
Upper CL Dif	0.11339	Prob >  t	0.7937
Lower CL Dif	-0.08959	Prob > t	0.3969
Confidence	0.95	Prob < t	0.6031

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.30600	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	-0.09	0.7937
LA3-REF	-0.1	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
LA3-REF	5	25.000	27.500	5.00000	-0.418
TB	5	30.000	27.500	6.00000	0.418

**2-Sample Test, Normal Approximation**

S	Z	Prob> Z
30	0.41779	0.6761

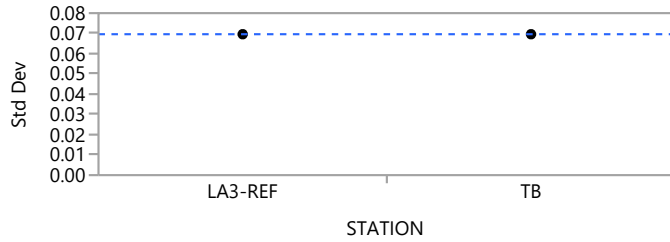
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
0.2727	1	0.6015

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=Total Butyltins (ND = 0)**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
LA3-REF	5	0.0695895	0.0535322	0.0526484
TB	5	0.0695892	0.0535320	0.0526482

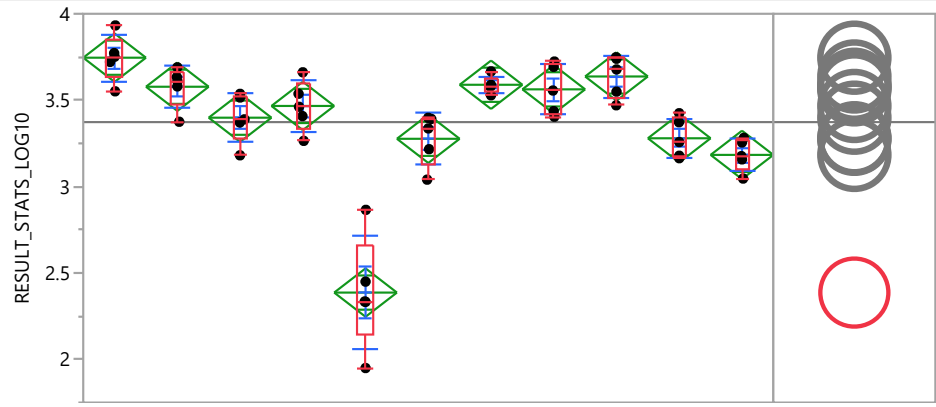
Test	F Ratio	DFNum	DFDen	p-Value
O'Brien[.5]	0.0000	1	8	1.0000
Brown-Forsythe	0.0000	1	8	1.0000
Levene	0.0000	1	8	1.0000
Bartlett	0.0000	1	.	1.0000
F Test 2-sided	1.0000	4	4	1.0000

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
TB	LA3-REF	0.8000000	1.914854	0.4177864	0.6761	0.0118990	-0.126403	0.1502020

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=Total DDTs (ND = 0)**





**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=Total DDTs (ND = 0)**

BIME-COMP-T-M	BIMW-COMP-T-M	BIN-COMP-T	BIS-COMP	LA3-REF	MCN1-COMP-T	MCN2-COMP-T	MCN3-COMP	MCN4-COMP	MCN5-COMP	TB	With Control Dunnett's 0.05
STATION											

**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	3.55125	3.55125	3.636395	3.75143	3.85243	3.93244	3.93244
BIMW-COMP-T-M	3.37518	3.37518	3.47748	3.60943	3.662195	3.68983	3.68983
BIN-COMP-T	3.18089	3.18089	3.27598	3.38917	3.526045	3.53662	3.53662
BIS-COMP	3.2646	3.2646	3.33626	3.4617	3.599275	3.6613	3.6613
LA3-REF	1.94983	1.94983	2.141355	2.33489	2.657635	2.8653	2.8653
MCN1-COMP-T	3.04012	3.04012	3.12822	3.33661	3.39477	3.39794	3.39794
MCN2-COMP-T	3.52827	3.52827	3.554025	3.58232	3.6277	3.66696	3.66696
MCN3-COMP	3.40429	3.40429	3.42049	3.55591	3.708265	3.72359	3.72359
MCN4-COMP	3.47034	3.47034	3.509925	3.67804	3.743915	3.74819	3.74819
MCN5-COMP	3.16435	3.16435	3.171425	3.25768	3.398465	3.42454	3.42454
TB	3.04637	3.04637	3.101855	3.17609	3.268495	3.28172	3.28172

**Oneway Anova**

**Summary of Fit**

Rsquare	0.865729
Adj Rsquare	0.835213
Root Mean Square Error	0.15538
Mean of Response	3.373063
Observations (or Sum Wgts)	55

**Analysis of Variance**

Source	DF	Sum of Squares	Mean Square	F Ratio	Prob > F
STATION	10	6.8492710	0.684927	28.3697	<.0001*
Error	44	1.0622896	0.024143		
C. Total	54	7.9115606			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	3.74582	0.06949	3.6058	3.8859
BIMW-COMP-T-M	5	3.57776	0.06949	3.4377	3.7178
BIN-COMP-T	5	3.39864	0.06949	3.2586	3.5387
BIS-COMP	5	3.46655	0.06949	3.3265	3.6066
LA3-REF	5	2.38657	0.06949	2.2465	2.5266
MCN1-COMP-T	5	3.27652	0.06949	3.1365	3.4166
MCN2-COMP-T	5	3.58915	0.06949	3.4491	3.7292
MCN3-COMP	5	3.56268	0.06949	3.4226	3.7027

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=Total DDTs (ND = 0)**

**Oneway Anova**

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
MCN4-COMP	5	3.63714	0.06949	3.4971	3.7772
MCN5-COMP	5	3.27949	0.06949	3.1394	3.4195
TB	5	3.18336	0.06949	3.0433	3.3234

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	3.74582	0.136027	0.06083	3.5769	3.9147
BIMW-COMP-T-M	5	3.57776	0.120241	0.05377	3.4285	3.7271
BIN-COMP-T	5	3.39864	0.142261	0.06362	3.2220	3.5753
BIS-COMP	5	3.46655	0.147624	0.06602	3.2833	3.6499
LA3-REF	5	2.38657	0.327680	0.14654	1.9797	2.7934
MCN1-COMP-T	5	3.27652	0.150919	0.06749	3.0891	3.4639
MCN2-COMP-T	5	3.58915	0.049739	0.02224	3.5274	3.6509
MCN3-COMP	5	3.56268	0.144798	0.06476	3.3829	3.7425
MCN4-COMP	5	3.63714	0.122487	0.05478	3.4851	3.7892
MCN5-COMP	5	3.27949	0.115760	0.05177	3.1358	3.4232
TB	5	3.18336	0.092658	0.04144	3.0683	3.2984

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.83292	0.05

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=Total DDTs (ND = 0)**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
BIME-COMP-T-M	1.081	<.0001*
MCN4-COMP	0.972	<.0001*
MCN2-COMP-T	0.924	<.0001*
BIMW-COMP-T-M	0.913	<.0001*
MCN3-COMP	0.898	<.0001*
BIS-COMP	0.802	<.0001*
BIN-COMP-T	0.734	<.0001*
MCN5-COMP	0.615	<.0001*
MCN1-COMP-T	0.612	<.0001*
TB	0.518	<.0001*
LA3-REF	-0.28	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		(Mean-Mean0)/Std0
			Score	Score Mean	
BIME-COMP-T-M	5	247.000	140.000	49.4000	3.118
BIMW-COMP-T-M	5	191.500	140.000	38.3000	1.493
BIN-COMP-T	5	117.000	140.000	23.4000	-0.659
BIS-COMP	5	149.000	140.000	29.8000	0.249
LA3-REF	5	15.000	140.000	3.0000	-3.645
MCN1-COMP-T	5	84.000	140.000	16.8000	-1.625
MCN2-COMP-T	5	196.500	140.000	39.3000	1.640
MCN3-COMP	5	188.000	140.000	37.6000	1.391
MCN4-COMP	5	214.000	140.000	42.8000	2.152
MCN5-COMP	5	82.000	140.000	16.4000	-1.683
TB	5	56.000	140.000	11.2000	-2.445

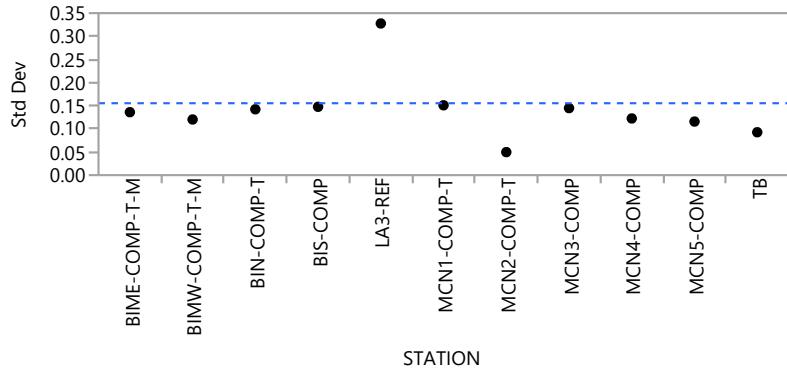
**1-Way Test, ChiSquare Approximation**

ChiSquare	DF	Prob>ChiSq
42.7531	10	<.0001*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=Total DDTs (ND = 0)**

**Tests that the Variances are Equal**



Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1360267	0.0875368	0.0864140
BIMW-COMP-T-M	5	0.1202411	0.0810304	0.0738860
BIN-COMP-T	5	0.1422608	0.1019208	0.1000260
BIS-COMP	5	0.1476236	0.1061768	0.1052060
LA3-REF	5	0.3276802	0.2168488	0.2065120
MCN1-COMP-T	5	0.1509189	0.1186384	0.1066200
MCN2-COMP-T	5	0.0497386	0.0311224	0.0294700
MCN3-COMP	5	0.1447985	0.1164648	0.1151100
MCN4-COMP	5	0.1224872	0.1017752	0.0935960
MCN5-COMP	5	0.1157603	0.0951784	0.0908160
TB	5	0.0926578	0.0681096	0.0666560

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.3545	10	44	0.2330
Brown-Forsythe	0.8328	10	44	0.5999
Levene	1.1767	10	44	0.3318
Bartlett	1.5184	10	.	0.1255

Warning: Small sample sizes. Use Caution.

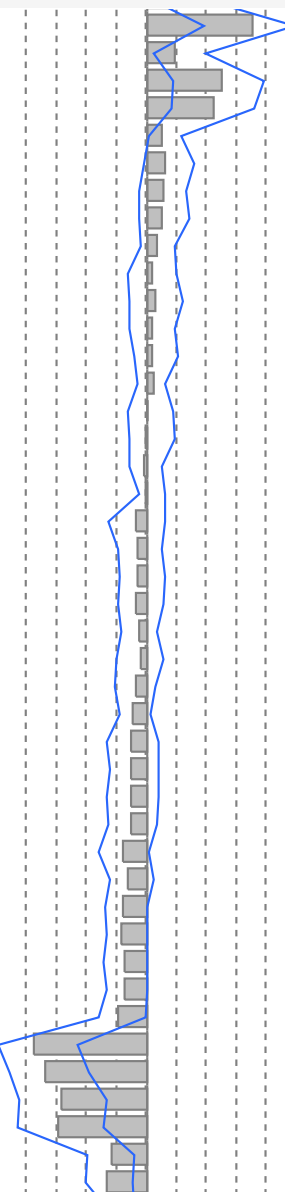
**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

		q*		Alpha									
		1.95996	0.05										
Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL					
MCN1-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.94163	0.35102	1.44177					
MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.24489	0.71448	1.63861					
MCN2-COMP-T	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.26902	0.13667	0.54832					
MCN3-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.22102	0.57139	1.74311					
MCN3-COMP	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.30134	0.01269	0.65282					

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=Total DDTs (ND = 0)**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

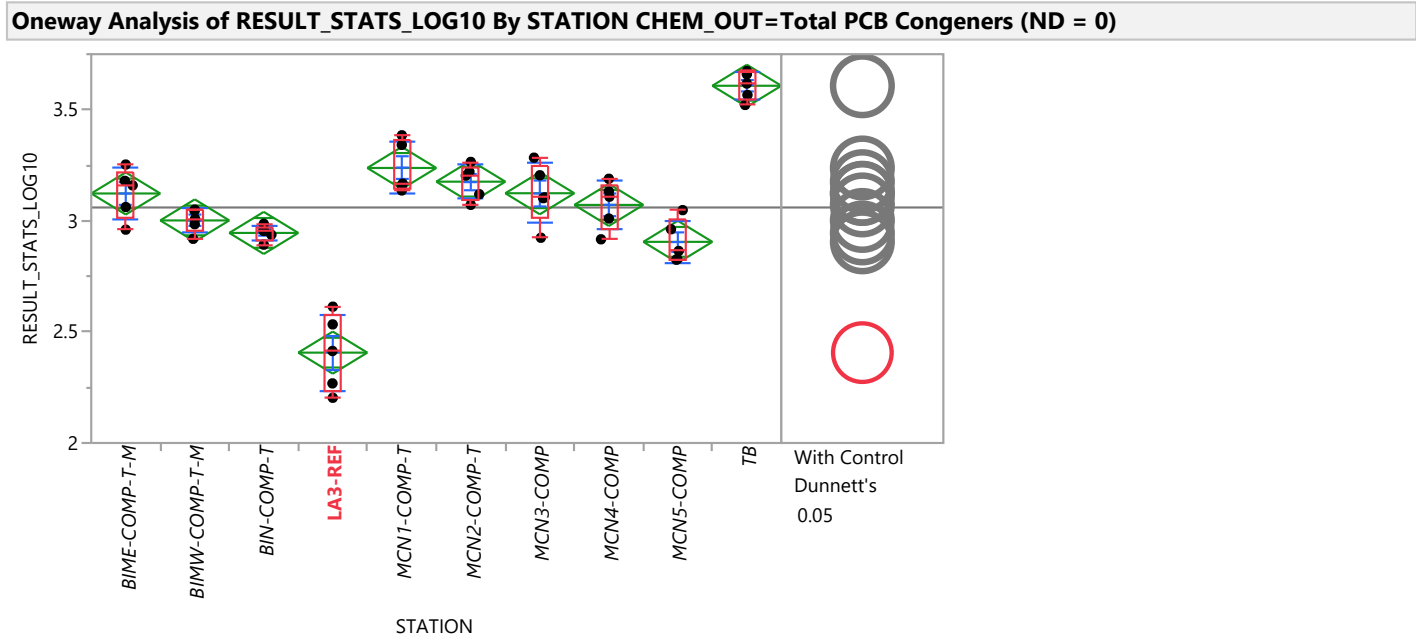
Level	- Level	Score Mean	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
MCN4-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.28967	0.68421	1.78981	
MCN4-COMP	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.34804	0.07874	0.69952	
MCN5-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.92242	0.31320	1.42256	
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.82446	0.29204	1.30544	
MCN2-COMP-T	BIN-COMP-T	4.40000	1.914854	2.29783	0.0216*	0.19061	0.01280	0.40755	
MCN4-COMP	BIN-COMP-T	4.00000	1.914854	2.08893	0.0367*	0.22417	-0.04513	0.55875	
MCN4-COMP	BIS-COMP	3.60000	1.914854	1.88004	0.0601	0.20239	-0.11179	0.47504	
MCN3-COMP	BIN-COMP-T	3.20000	1.914854	1.67115	0.0947	0.17747	-0.11118	0.51205	
MCN2-COMP-T	BIS-COMP	2.80000	1.914854	1.46225	0.1437	0.12062	-0.08152	0.32384	
BIS-COMP	BIN-COMP-T	1.60000	1.914854	0.83557	0.4034	0.07253	-0.25087	0.35636	
MCN3-COMP	BIS-COMP	1.60000	1.914854	0.83557	0.4034	0.09421	-0.22461	0.42834	
MCN4-COMP	MCN3-COMP	1.60000	1.914854	0.83557	0.4034	0.05525	-0.22260	0.33535	
MCN4-COMP	BIMW-COMP-T-M	1.20000	1.914854	0.62668	0.5309	0.06861	-0.16422	0.36446	
MCN4-COMP	MCN2-COMP-T	1.20000	1.914854	0.62668	0.5309	0.08123	-0.11810	0.21137	
MCN3-COMP	BIMW-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.00311	-0.25314	0.31776	
MCN5-COMP	MCN1-COMP-T	0.00000	1.914854	0.00000	1.0000	-0.01921	-0.22725	0.33227	
MCN3-COMP	MCN2-COMP-T	-0.40000	1.914854	-0.20889	0.8345	-0.02641	-0.23027	0.16467	
MCN2-COMP-T	BIMW-COMP-T-M	-0.60000	1.909043	-0.31429	0.7533	-0.02287	-0.11005	0.21326	
MCN1-COMP-T	BIN-COMP-T	-1.60000	1.914854	-0.83557	0.4034	-0.13868	-0.47535	0.21071	
BIS-COMP	BIMW-COMP-T-M	-2.00000	1.914854	-1.04447	0.2963	-0.11808	-0.36996	0.16207	
TB	MCN1-COMP-T	-2.00000	1.914854	-1.04447	0.2963	-0.11622	-0.34523	0.21515	
MCN5-COMP	BIN-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-0.13149	-0.35812	0.19150	
TB	MCN5-COMP	-2.40000	1.914854	-1.25336	0.2101	-0.10034	-0.32602	0.10322	
MCN4-COMP	BIME-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-0.08091	-0.38293	0.18839	
BIMW-COMP-T-M	BIME-COMP-T-M	-3.20000	1.914854	-1.67115	0.0947	-0.14200	-0.39724	0.08331	
MCN2-COMP-T	BIME-COMP-T-M	-3.20000	1.914854	-1.67115	0.0947	-0.16911	-0.35266	0.03719	
MCN3-COMP	BIME-COMP-T-M	-3.20000	1.914854	-1.67115	0.0947	-0.19552	-0.49575	0.14169	
BIN-COMP-T	BIMW-COMP-T-M	-3.60000	1.914854	-1.88004	0.0601	-0.19061	-0.45367	0.14029	
MCN1-COMP-T	BIS-COMP	-3.60000	1.914854	-1.88004	0.0601	-0.19160	-0.49713	0.12700	
MCN5-COMP	BIS-COMP	-3.60000	1.914854	-1.88004	0.0601	-0.20402	-0.48280	0.10779	
MCN1-COMP-T	BIMW-COMP-T-M	-4.00000	1.914854	-2.08893	0.0367*	-0.29189	-0.59444	0.01642	
TB	BIN-COMP-T	-4.00000	1.914854	-2.08893	0.0367*	-0.23183	-0.46910	0.07438	
BIS-COMP	BIME-COMP-T-M	-4.40000	1.914854	-2.29783	0.0216*	-0.28665	-0.52452	-0.01400	
MCN5-COMP	BIMW-COMP-T-M	-4.40000	1.914854	-2.29783	0.0216*	-0.31744	-0.51133	-0.00279	
MCN5-COMP	MCN3-COMP	-4.40000	1.914854	-2.29783	0.0216*	-0.27234	-0.54509	-0.01215	
TB	BIS-COMP	-4.40000	1.914854	-2.29783	0.0216*	-0.28198	-0.50396	-0.00933	
BIN-COMP-T	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.36226	-0.59153	-0.03578	
LA3-REF	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-1.38866	-1.82259	-0.85624	
LA3-REF	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-1.24489	-1.68473	-0.71448	
LA3-REF	BIN-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-1.05428	-1.56564	-0.50577	
LA3-REF	BIS-COMP	-4.80000	1.914854	-2.50672	0.0122*	-1.08728	-1.58742	-0.54262	
MCN1-COMP-T	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.43581	-0.73230	-0.15965	
MCN5-COMP	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.49375	-0.75394	-0.17886	



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=Total DDTs (ND = 0)**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
MCN5-COMP	MCN2-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-0.32464	-0.48846	-0.15524
MCN5-COMP	MCN4-COMP	-4.80000	1.914854	-2.50672	0.0122*	-0.36725	-0.57529	-0.09795
TB	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.56420	-0.77510	-0.29598
TB	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.40811	-0.58819	-0.11991
TB	MCN2-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-0.40623	-0.54207	-0.27300
TB	MCN3-COMP	-4.80000	1.914854	-2.50672	0.0122*	-0.39032	-0.64657	-0.14902
TB	MCN4-COMP	-4.80000	1.914854	-2.50672	0.0122*	-0.46647	-0.69327	-0.21507



**Quantiles**

Level	Minimum	10%	25%	Median	75%	90%	Maximum
BIME-COMP-T-M	2.96023	2.96023	3.01109	3.15951	3.216615	3.25322	3.25322
BIMW-COMP-T-M	2.91897	2.91897	2.95185	3.00895	3.0478	3.05049	3.05049
BIN-COMP-T	2.89265	2.89265	2.91504	2.95482	2.97114	2.98643	2.98643
LA3-REF	2.20353	2.20353	2.235885	2.41407	2.573645	2.61349	2.61349
MCN1-COMP-T	3.13669	3.13669	3.14741	3.16753	3.36335	3.38491	3.38491
MCN2-COMP-T	3.07188	3.07188	3.09578	3.20337	3.24299	3.265	3.265
MCN3-COMP	2.92373	2.92373	3.012825	3.10551	3.244585	3.28412	3.28412
MCN4-COMP	2.91676	2.91676	2.96343	3.10851	3.161085	3.18921	3.18921
MCN5-COMP	2.82478	2.82478	2.826075	2.86431	3.00501	3.04809	3.04809

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=Total PCB Congeners (ND = 0)**

Quantiles							
Level	Minimum	10%	25%	Median	75%	90%	Maximum
TB	3.52147	3.52147	3.54384	3.61785	3.66687	3.67428	3.67428

**Oneway Anova**

**Summary of Fit**

Rsquare	0.903153
Adj Rsquare	0.881362
Root Mean Square Error	0.104892
Mean of Response	3.059941
Observations (or Sum Wgts)	50

**Analysis of Variance**

Source	DF	Sum of		F Ratio	Prob > F
		Squares	Mean Square		
STATION	9	4.1041152	0.456013	41.4467	<.0001*
Error	40	0.4400952	0.011002		
C. Total	49	4.5442104			

**Means for Oneway Anova**

Level	Number	Mean	Std Error	Lower 95%	Upper 95%
BIME-COMP-T-M	5	3.12298	0.04691	3.0282	3.2178
BIMW-COMP-T-M	5	3.00165	0.04691	2.9068	3.0965
BIN-COMP-T	5	2.94544	0.04691	2.8506	3.0402
LA3-REF	5	2.40663	0.04691	2.3118	2.5014
MCN1-COMP-T	5	3.23781	0.04691	3.1430	3.3326
MCN2-COMP-T	5	3.17618	0.04691	3.0814	3.2710
MCN3-COMP	5	3.12407	0.04691	3.0293	3.2189
MCN4-COMP	5	3.07151	0.04691	2.9767	3.1663
MCN5-COMP	5	2.90530	0.04691	2.8105	3.0001
TB	5	3.60785	0.04691	3.5130	3.7027

Std Error uses a pooled estimate of error variance

**Means and Std Deviations**

Level	Number	Mean	Std Dev	Std Err		
				Mean	Lower 95%	Upper 95%
BIME-COMP-T-M	5	3.12298	0.113756	0.05087	2.9817	3.2642
BIMW-COMP-T-M	5	3.00165	0.053502	0.02393	2.9352	3.0681
BIN-COMP-T	5	2.94544	0.034378	0.01537	2.9027	2.9881
LA3-REF	5	2.40663	0.172786	0.07727	2.1921	2.6212
MCN1-COMP-T	5	3.23781	0.116150	0.05194	3.0936	3.3820
MCN2-COMP-T	5	3.17618	0.078591	0.03515	3.0786	3.2738
MCN3-COMP	5	3.12407	0.135227	0.06048	2.9562	3.2920
MCN4-COMP	5	3.07151	0.108071	0.04833	2.9373	3.2057
MCN5-COMP	5	2.90530	0.097253	0.04349	2.7845	3.0261
TB	5	3.60785	0.063976	0.02861	3.5284	3.6873

**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=Total PCB Congeners (ND = 0)**

**Means Comparisons**

**Comparisons with a control using Dunnett's Method**

Control Group = LA3-REF

**Confidence Quantile**

d	Alpha
2.81175	0.05

**LSD Threshold Matrix**

Level	Abs(Dif)-	
	LSD	p-Value
TB	1.015	<.0001*
MCN1-COMP-T	0.645	<.0001*
MCN2-COMP-T	0.583	<.0001*
MCN3-COMP	0.531	<.0001*
BIME-COMP-T-M	0.53	<.0001*
MCN4-COMP	0.478	<.0001*
BIMW-COMP-T-M	0.408	<.0001*
BIN-COMP-T	0.352	<.0001*
MCN5-COMP	0.312	<.0001*
LA3-REF	-0.19	1.0000

Positive values show pairs of means that are significantly different.

**Wilcoxon / Kruskal-Wallis Tests (Rank Sums)**

Level	Count	Score Sum	Expected		
			Score	Score Mean	(Mean-Mean0)/Std0
BIME-COMP-T-M	5	152.000	127.500	30.4000	0.776
BIMW-COMP-T-M	5	95.000	127.500	19.0000	-1.035
BIN-COMP-T	5	70.000	127.500	14.0000	-1.843
LA3-REF	5	15.000	127.500	3.0000	-3.622
MCN1-COMP-T	5	189.000	127.500	37.8000	1.973
MCN2-COMP-T	5	176.000	127.500	35.2000	1.552
MCN3-COMP	5	149.000	127.500	29.8000	0.679
MCN4-COMP	5	128.000	127.500	25.6000	0.000
MCN5-COMP	5	61.000	127.500	12.2000	-2.134
TB	5	240.000	127.500	48.0000	3.622

**1-Way Test, ChiSquare Approximation**

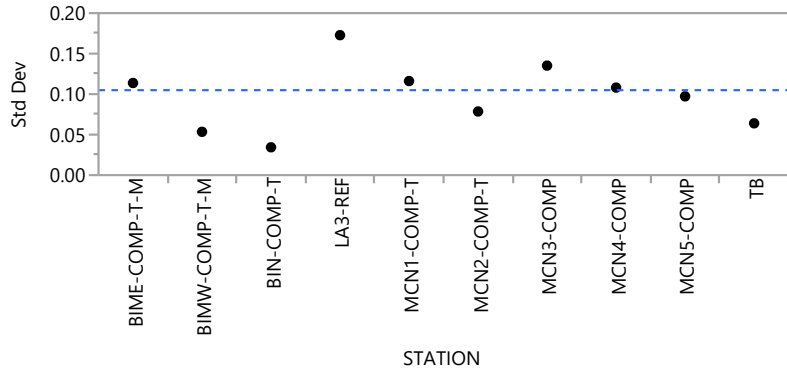
ChiSquare	DF	Prob>ChiSq
38.8654	9	<.0001*

Small sample sizes. Refer to statistical tables for tests, rather than large-sample approximations.



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=Total PCB Congeners (ND = 0)**

**Tests that the Variances are Equal**



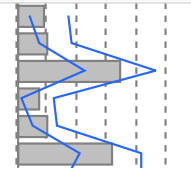
Level	Count	Std Dev	MeanAbsDif to Mean	MeanAbsDif to Median
BIME-COMP-T-M	5	0.1137558	0.0895152	0.0822100
BIMW-COMP-T-M	5	0.0535016	0.0398400	0.0383800
BIN-COMP-T	5	0.0343783	0.0243168	0.0224400
LA3-REF	5	0.1727860	0.1365928	0.1351040
MCN1-COMP-T	5	0.1161504	0.1004320	0.0863760
MCN2-COMP-T	5	0.0785908	0.0643216	0.0588840
MCN3-COMP	5	0.1352266	0.0964152	0.0927040
MCN4-COMP	5	0.1080707	0.0864624	0.0790620
MCN5-COMP	5	0.0972531	0.0797712	0.0715740
TB	5	0.0639764	0.0512112	0.0492120

Test	F Ratio	DFNum	DFDen	Prob > F
O'Brien[.5]	1.7449	9	40	0.1104
Brown-Forsythe	1.0468	9	40	0.4216
Levene	2.2498	9	40	0.0383*
Bartlett	1.3691	9	.	0.1958

Warning: Small sample sizes. Use Caution.

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

q*	Alpha	Level	- Level	Score Mean Difference	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL
1.95996	0.05	MCN1-COMP-T	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.21772	0.091580	0.42282
		MCN1-COMP-T	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.24404	0.171700	0.44914
		MCN1-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.85111	0.544640	1.13826
		MCN2-COMP-T	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.17587	0.026770	0.30201
		MCN2-COMP-T	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.24752	0.116030	0.32833
		MCN2-COMP-T	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.78930	0.506190	1.01745



**Oneway Analysis of RESULT\_STATS\_LOG10 By STATION CHEM\_OUT=Total PCB Congeners (ND = 0)**

**Nonparametric Comparisons For Each Pair Using Wilcoxon Method**

Level	- Level	Score Mean	Std Err Dif	Z	p-Value	Hodges-Lehmann	Lower CL	Upper CL	
MCN3-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.69144	0.389930	1.01588	
MCN4-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.65541	0.382960	0.92943	
MCN5-COMP	LA3-REF	4.80000	1.914854	2.50672	0.0122*	0.51429	0.213880	0.77985	
TB	BIME-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.47945	0.312990	0.69923	
TB	BIMW-COMP-T-M	4.80000	1.914854	2.50672	0.0122*	0.60897	0.476360	0.74049	
TB	BIN-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.67303	0.565620	0.76681	
TB	LA3-REF	4.80000	1.914854	2.50672	0.0122*	1.20378	0.952720	1.45593	
TB	MCN1-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.38478	0.179680	0.52277	
TB	MCN2-COMP-T	4.80000	1.914854	2.50672	0.0122*	0.43848	0.300490	0.58758	
TB	MCN3-COMP	4.80000	1.914854	2.50672	0.0122*	0.46429	0.282090	0.73573	
TB	MCN4-COMP	4.80000	1.914854	2.50672	0.0122*	0.52650	0.377000	0.74270	
TB	MCN5-COMP	4.80000	1.914854	2.50672	0.0122*	0.70190	0.518120	0.84691	
MCN3-COMP	BIMW-COMP-T-M	3.20000	1.914854	1.67115	0.0947	0.12078	-0.121380	0.29939	
MCN3-COMP	BIN-COMP-T	3.20000	1.914854	1.67115	0.0947	0.16808	-0.032120	0.34669	
MCN4-COMP	BIN-COMP-T	3.20000	1.914854	1.67115	0.0947	0.15266	-0.039090	0.25178	
MCN4-COMP	BIMW-COMP-T-M	2.00000	1.914854	1.04447	0.2963	0.08785	-0.128350	0.21399	
MCN1-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.10558	-0.095090	0.38156	
MCN2-COMP-T	BIME-COMP-T-M	1.60000	1.914854	0.83557	0.4034	0.04386	-0.133540	0.26075	
MCN3-COMP	BIME-COMP-T-M	0.00000	1.914854	0.00000	1.0000	0.02504	-0.256280	0.24482	
MCN3-COMP	MCN2-COMP-T	-0.80000	1.914854	-0.41779	0.6761	-0.01776	-0.297250	0.16444	
MCN4-COMP	MCN3-COMP	-0.80000	1.914854	-0.41779	0.6761	-0.07209	-0.288290	0.20923	
MCN2-COMP-T	MCN1-COMP-T	-1.20000	1.914854	-0.62668	0.5309	-0.06481	-0.269910	0.10687	
MCN4-COMP	BIME-COMP-T-M	-1.20000	1.914854	-0.62668	0.5309	-0.05100	-0.263250	0.17273	
MCN5-COMP	BIN-COMP-T	-1.20000	1.914854	-0.62668	0.5309	-0.06787	-0.159060	0.11066	
MCN3-COMP	MCN1-COMP-T	-2.40000	1.914854	-1.25336	0.2101	-0.06561	-0.418060	0.12599	
BIN-COMP-T	BIMW-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-0.05868	-0.152460	0.03688	
MCN4-COMP	MCN2-COMP-T	-2.80000	1.914854	-1.46225	0.1437	-0.09486	-0.304220	0.06953	
MCN5-COMP	BIMW-COMP-T-M	-2.80000	1.914854	-1.46225	0.1437	-0.09419	-0.223120	0.06336	
BIMW-COMP-T-M	BIME-COMP-T-M	-3.20000	1.914854	-1.67115	0.0947	-0.13490	-0.268490	0.08488	
MCN4-COMP	MCN1-COMP-T	-3.60000	1.914854	-1.88004	0.0601	-0.15743	-0.425030	0.03108	
MCN5-COMP	MCN4-COMP	-3.60000	1.914854	-1.88004	0.0601	-0.17103	-0.361840	0.04517	
MCN5-COMP	BIME-COMP-T-M	-4.00000	1.914854	-2.08893	0.0367*	-0.21808	-0.425850	0.00170	
MCN5-COMP	MCN3-COMP	-4.00000	1.914854	-2.08893	0.0367*	-0.24120	-0.456750	0.03820	
BIN-COMP-T	BIME-COMP-T-M	-4.40000	1.914854	-2.29783	0.0216*	-0.20366	-0.315790	-0.00438	
LA3-REF	BIME-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.71942	-0.984980	-0.42643	
LA3-REF	BIMW-COMP-T-M	-4.80000	1.914854	-2.50672	0.0122*	-0.59488	-0.841580	-0.37124	
LA3-REF	BIN-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-0.54075	-0.752320	-0.32394	
MCN5-COMP	MCN1-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-0.33076	-0.557540	-0.11004	
MCN5-COMP	MCN2-COMP-T	-4.80000	1.914854	-2.50672	0.0122*	-0.25905	-0.437630	-0.07159	