Participating Laboratories - OrW18

Lab_Code	Lab_Name
AALI01	Accura Analytical Laboratory, Inc
ANTE01	Paragon Analytics a Division of DataChem Laboratories, Inc.
ASHL01	CH2M Hill Applied Science Laboratory
AY1201	BWXT Y-12, Analytical Chemistry Organization Laboratory
BCLI01	BC Laboratories, Inc
BNEL01	Northeast Laboratory Services, Inc.
CALN01	Caltest Analytical Laboratory
CDHS01	California Department of Public Health
CORE02	TestAmerica Denver
DAFI01	Davis & Floyd, Inc.
DPAL01	S&S Onsite Analytical
EMAX01	EMAX Laboratories, Inc
GENE01	GEL Laboratories, LLC
GPLP01	GPL Laboratories, LLLP
GROW01	FGL Environmental
LOCK01	ICP Analytical Laboratories Department
MART01	USEC, Inc.
MART02	United States Enrichment Corporation
NARL01	National Air and Radiation Environmental Laboratory
NESI01	BWXT Services-Radioisotope & Analytical Chemistry Laboratory
NMLA01	Assaigai Analytical Laboratories, Inc.
OBGL01	Life Science Laboratories, Inc.
OTLI01	Outreach Technologies, Inc.
QUAN01	STL St. Louis
QUAN02	STL Knoxville
SALC01	TestAmerica-Morgan Hill
SOUT01	Southwest Research Institute
WEST01	Lionville Laboratory Incorporated
WEST03	Waste Sampling and Characterization Facility

Lab Code	Lab Name	Standard
DPAL01	S&S Onsite Analytical	OrW
GROW01	FGL Environmental	OrW
NESI01	BWXT Services-Radioisotope & Analytical Chemistry Laboratory	OrW
OTLI01	Outreach Technologies, Inc.	OrW

Row	Lab Code	Lab Name
1	AALI01	Xenco Laboratories-Atlanta
2	ANTE01	Paragon Analytics a Division of DataChem Laboratories, Inc.
3	ASHL01	CH2M Hill Applied Science Laboratory
4	AY1201	BWXT Y-12, Analytical Chemistry Organization Laboratory
5	BCLI01	BC Laboratories, Inc
6	BNEL01	Northeast Laboratory Services, Inc.
7	CALN01	Caltest Analytical Laboratory
8	CDHS01	California Department of Public Health
9	CORE02	TestAmerica Denver
10	DAFI01	Davis & Floyd, Inc.
11	EMAX01	EMAX Laboratories, Inc
12	GENE01	GEL Laboratories, LLC
13	GPLP01	GPL Laboratories, LLLP
14	LOCK01	ICP Analytical Services Laboratories
15	MART01	USEC, Inc.
16	MART02	United States Enrichment Corporation
17	NARL01	National Air and Radiation Environmental Laboratory
18	NMLA01	Assaigai Analytical Laboratories, Inc.
19	OBGL01	Life Science Laboratories, Inc.
20	QUAN01	STL St. Louis
21	QUAN02	TestAmerica Knoxville
22	SALC01	TestAmerica-Morgan Hill
23	SOUT01	Southwest Research Institute
24	WEST01	Lionville Laboratory Incorporated
25	WEST03	Waste Sampling and Characterization Facility
Total:		

Study	Analyte Name	Reference Value	RESL Uncertainty
MAPEP-07-OrW18	1,2-Dichlorobenzene	59.0	1.8
MAPEP-07-OrW18	1,3-Dichlorobenzene	131.0	3.9
MAPEP-07-OrW18	2,4,5-Trichlorophenol	108.0	3.2
MAPEP-07-OrW18	2,4-Dichlorophenol	77.0	2.3
MAPEP-07-OrW18	2,4-Dimethylphenol	75.0	2.2
MAPEP-07-OrW18	2,4-Dinitrotoluene	55.0	1.6
MAPEP-07-OrW18	2,6-Dinitrotoluene	167.0	5.0
MAPEP-07-OrW18	2-Chloronaphthalene	121.0	3.6
MAPEP-07-OrW18	2-Chlorophenol	154.0	4.6
MAPEP-07-OrW18	2-Methylnaphthalene	83.0	2.5
MAPEP-07-OrW18	2-Methylphenol	89.0	2.8
MAPEP-07-OrW18	4,4'-DDT	5.90	0.18
MAPEP-07-OrW18	Acenaphthene	35.0	1.0
MAPEP-07-OrW18	Anthracene	39.0	1.2
MAPEP-07-OrW18	Benzo(a)anthracene	55.0	1.6
MAPEP-07-OrW18	Benzo(a)pyrene	110.0	3.3
MAPEP-07-OrW18	Benzo(b)fluoranthene	105.0	3.2
MAPEP-07-OrW18	Benzo(g,h,i)perylene	144.0	4.3
MAPEP-07-OrW18	Bis(2-ethylhexyl)phthalate	59.0	1.8
MAPEP-07-OrW18	Di-n-butylphthalate	83.0	2.5
MAPEP-07-OrW18	Di-n-octylphthalate	61.0	1.8
MAPEP-07-OrW18	Dieldrin	9.22	0.28
MAPEP-07-OrW18	Diethylphthalate	77.0	2.3
MAPEP-07-OrW18	Dimethylphthalate	154.0	4.6
MAPEP-07-OrW18	Fluorene	42.0	1.3
MAPEP-07-OrW18	Heptachlor	3.90	0.12
MAPEP-07-OrW18	Hexachlorobenzene	58.0	1.7
MAPEP-07-OrW18	Hexachlorobutadiene	78.0	2.3
MAPEP-07-OrW18	Naphthalene	144.0	4.3
MAPEP-07-OrW18	Phenanthrene	48.0	1.4
MAPEP-07-OrW18	Pyrene	54.0	1.6
MAPEP-07-OrW18	beta-BHC	5.25	0.16
MAPEP-07-OrW18	delta-BHC	3.77	0.11
MAPEP-07-OrW18	gamma-BHC (Lindane)	6.25	0.19

Sample Statistical Summary

MAPEP-07-OrW18

Analyte	T(1)	A(2)	Calc(3) Mean	Std(4) Dev	Assnd(5) Value	Ref Unc	Acceptance Range
Organic							Units: (ug/L)
Aldrin	11	11					
delta-BHC	14	13	3.29	0.67	3.77	0.11	1.29 - 5.28
alpha-BHC	10	10					
beta-BHC	14	14	4.69	0.84	5.25	0.16	2.16 - 7.22
gamma-BHC (Lindane)	14	14	5.59	1.02	6.25	0.19	2.54 - 8.64
4,4'-DDD	11	11					
4,4'-DDE	11	11					
4,4'-DDT	14	13	5.30	1.03	5.90	0.18	2.20 - 8.39
Dieldrin	13	13	8.53	1.33	9.22	0.28	4.53 - 12.52
Endosulfan I	11	11					
Endosulfan II	11	11					
Endosulfan sulfate	11	11					
Endrin Aldehyde	11	11					
Endrin	11	11					
Heptachlor	13	12	3.32	0.68	3.90	0.12	1.27 - 5.37
Heptachlor epoxide	11	11					
Methoxychlor	9	8					
1,2-Dichlorobenzene	23	23	39.7	11.2	59.0	1.8	6.1 - 73.2
1,3-Dichlorobenzene	23	23	83.8	22.7	131.0	3.9	15.8 - 151.7
1,4-Dichlorobenzene	20	20					
Hexachlorobutadiene	24	24	51.7	14.5	78.0	2.3	8.2 - 95.2
Hexachloroethane	20	20					
Naphthalene	24	24	103.3	22.1	144.0	4.3	37.1 - 169.6
Nitrobenzene	20	20					
1,2,4-Trichlorobenzene	20	20					
Acenaphthene	24	23	29.3	4.7	35.0	1.0	15.1 - 43.4
Acenaphthylene	20	20					
Anthracene	24	24	33.5	5.5	39.0	1.2	16.9 - 50.2
Benzo(a)anthracene	24	22	47.4	7.6	55.0	1.6	24.7 - 70.1
Benzo(a)pyrene	24	24	85.2	17.6	110.0	3.3	32.5 - 138.0
Benzo(b)fluoranthene	24	22	90.2	16.6	105.0	3.2	40.3 - 140.0
Benzo(g,h,i)perylene	24	24	125.1	22.1	144.0	4.3	58.7 - 191.5
Benzo(k)fluoranthene	22	20					
4-Bromophenyl-phenylether	14	14					
Butylbenzylphthalate	19	19					
4-Chloro-3-methylphenol	20	20					
bis(2-chloroethoxy)methane	14	14					
bis(2-chloroethyl)ether	14	14					
bis(2-chloroisopropyl)ether	14	14					
2-Chloronaphthalene	24	24	91.5	18.1	121.0	3.6	37.1 - 145.9
2-Chlorophenol	24	24	118.3	24.9	154.0	4.6	43.6 - 193.1
4-Chlorophenyl-phenylether	14	14					
Chrysene	20	19					
Dibenzo(a,h)anthracene	20	20					
Dibenzofuran	19	19					
Di-n-butylphthalate	24	24	68.8	13.8	83.0	2.5	27.5 - 110.1
2,4-Dichlorophenol	24	24	60.5	12.2	77.0	2.3	24.0 - 97.1
2,6-Dichlorophenol	8	8					
Diethylphthalate	24	24	61.1	15.9	77.0	2.3	13.3 - 108.8
2,4-Dimethylphenol	24	24	57.0	14.1	75.0	2.2	14.7 - 99.2

Dimethylphthalate	24	24	102.1	39.7	154.0	4.6	15.4 - 221.2
2,4-Dinitrophenol	20	20					
2,4-Dinitrotoluene	24	24	45.0	8.6	55.0	1.6	19.2 - 70.8
2,6-Dinitrotoluene	24	23	139.5	23.1	167.0	5.0	70.3 - 208.7
Di-n-octylphthalate	23	23	54.4	12.5	61.0	1.8	16.8 - 92.0
Bis(2-ethylhexyl)phthalate	24	24	50.9	11.0	59.0	1.8	17.8 - 84.0
Fluoranthene	20	20					
Fluorene	24	24	35.2	6.4	42.0	1.3	16.0 - 54.3
Hexachlorobenzene	24	17	48.8	8.0	58.0	1.7	24.7 - 73.0
Hexachlorocyclopentadiene	19	19					
Indeno(1,2,3-c,d)pyrene	20	20					
Isophorone	20	20					
4,6-Dinitro-2-methylphenol	20	20					
2-Methylnaphthalene	22	22	57.1	13.8	83.0	2.5	15.7 - 98.5
2-Methylphenol	23	23	63.8	15.6	89.0	2.8	16.8 - 110.7
4-Nitrophenol	20	20					
3-Methyl & 4-Methylphenol	19	19					
2-Nitrophenol	20	20					
Pentachlorophenol	20	20					
Phenanthrene	24	23	41.9	6.2	48.0	1.4	23.4 - 60.4
Phenol	20	20					
Pyrene	23	23	46.9	9.8	54.0	1.6	17.7 - 76.2
2,4,5-Trichlorophenol	24	24	88.5	16.7	108.0	3.2	38.5 - 138.6
2,4,6-Trichlorophenol	21	20					

Note: (1) T = Total number of laboratories reporting analyte.
(2) A = Number of laboratories with 'Acceptable' performance.
(3) Mean calculated from NELAC FOPT Tables (Effective 07/01/2007).
(4) Standard deviation calculated from NELAC FOPT Tables.
(5) Assigned Value (T)

Flag Summary Report

Generated April 24, 2008

MAPEP-07-OrW18

Organic		
Analyte	**A**	**N**
Phenol	20	
2-Chlorophenol	24	
1,3-Dichlorobenzene	23	
1,4-Dichlorobenzene	20	
1,2-Dichlorobenzene	23	
Hexachloroethane	20	
Nitrobenzene	20	
Isophorone	20	
2-Nitrophenol	20	
2,4-Dimethylphenol	24	
2,4-Dichlorophenol	24	
1,2,4-Trichlorobenzene	20	
Naphthalene	24	
Hexachlorobutadiene	24	
4-Chloro-3-methylphenol	20	
2-Methylnaphthalene	22	
2-Methylphenol	23	
Hexachlorocyclopentadiene	19	
3-Methyl & 4-Methylphenol	19	
2,4,6-Trichlorophenol	20	1
2,6-Dichlorophenol	8	
2-Chloronaphthalene	24	
Dimethylphthalate	24	
Acenaphthylene	20	
2,6-Dinitrotoluene	23	1
Acenaphthene	23	1
2,4-Dinitrotoluene	24	
2,4-Dinitrophenol	20	
Dibenzofuran	19	
4-Nitrophenol	20	
Fluorene	24	
Diethylphthalate	24	
4,6-Dinitro-2-methylphenol	20	
2,4,5-Trichlorophenol	24	
Hexachlorobenzene	17	7
Pentachlorophenol	20	

Flag Summary Report

Generated April 24, 2008

MAPEP-07-OrW18

Phenanthrene	23	1
Anthracene	24	
Di-n-butylphthalate	24	
Fluoranthene	20	
Pyrene	23	
Butylbenzylphthalate	19	
Benzo(a)anthracene	22	2
Chrysene	19	1
Bis(2-ethylhexyl)phthalate	24	
Di-n-octylphthalate	23	
Benzo(b)fluoranthene	22	2
Benzo(k)fluoranthene	20	2
Benzo(a)pyrene	24	
Indeno(1,2,3-c,d)pyrene	20	
Dibenzo(a,h)anthracene	20	
Benzo(g,h,i)perylene	24	
alpha-BHC	10	
beta-BHC	14	
gamma-BHC (Lindane)	14	
delta-BHC	13	1
Heptachlor	12	1
Aldrin	11	
Heptachlor epoxide	11	
Endosulfan I	11	
4,4'-DDE	11	
Dieldrin	13	
Endrin	11	
4,4'-DDD	11	
Endosulfan II	11	
4,4'-DDT	13	1
Endrin Aldehyde	11	
Endosulfan sulfate	11	
Methoxychlor	8	1
4-Bromophenyl-phenylether	14	
bis(2-chloroethoxy)methane	14	
bis(2-chloroethyl)ether	14	
4-Chlorophenyl-phenylether	14	
bis(2-chloroisopropyl)ether	14	

Mixed Analyte Performance Evaluation Program

Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-07-OrW18
Xenco Laboratories-Atlanta (AALI01)
6017 Financial Drive
Norcross, GA 30071

Organic

Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	<0.003		A					
delta-BHC	3.40	3.29	A		0.17	1.29 - 5.28		
alpha-BHC	<0.010		A					
beta-BHC	3.62	4.69	A		-1.27	2.16 - 7.22		
gamma-BHC (Lindane)	5.04	5.59	A		-0.54	2.54 - 8.64		
4,4'-DDD	0.164		A					
4,4'-DDE	0.219		A					
4,4'-DDT	5.67	5.30	A		0.36	2.20 - 8.39		
Dieldrin	7.85	8.53	A		-0.51	4.53 - 12.52		
Endosulfan I	<0.002		A					
Endosulfan II	<0.005		A					
Endosulfan sulfate	<0.007		A					
Endrin Aldehyde	<0.009		A					
Endrin	0.070		A					
Heptachlor	2.80	3.32	A		-0.76	1.27 - 5.37		
Heptachlor epoxide	<0.003		A					
Methoxychlor	<0.029		A					
1,2-Dichlorobenzene	32.8	39.7	A		-0.62	6.1 - 73.2		
1,3-Dichlorobenzene	71.9	83.8	A		-0.52	15.8 - 151.7		
1,4-Dichlorobenzene	<1.61		A					
Hexachlorobutadiene	44.0	51.7	A		-0.53	8.2 - 95.2		
Hexachloroethane	<2.38		A					
Naphthalene	92.9	103.3	A		-0.47	37.1 - 169.6		
Nitrobenzene	<1.49		A					
1,2,4-Trichlorobenzene	<1.43		A					
Acenaphthene	26.3	29.3	A		-0.63	15.1 - 43.4		
Acenaphthylene	<1.48		A					
Anthracene	26.2	33.5	A		-1.32	16.9 - 50.2		
Benzo(a)anthracene	28.8	47.4	A		-2.46	24.7 - 70.1		
Benzo(a)pyrene	61.8	85.2	A		-1.33	32.5 - 138.0		
Benzo(b)fluoranthene	52.8	90.2	A		-2.25	40.3 - 140.0		
Benzo(g,h,i)perylene	88.4	125.1	A		-1.66	58.7 - 191.5		
Benzo(k)fluoranthene	<2.71		A					
4-Bromophenyl-phenylether	<2.12		A					
Butylbenzylphthalate	<1.82		A					
4-Chloro-3-methylphenol	<2.18		A					

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
bis(2-chloroethoxy)methane	<1.25		A					
bis(2-chloroethyl)ether	<1.78		A					
bis(2-chloroisopropyl)ether	<1.24		A					
2-Chloronaphthalene	85.6	91.5	A		-0.33	37.1 - 145.9		
2-Chlorophenol	93.1	118.3	A		-1.01	43.6 - 193.1		
4-Chlorophenyl-phenylether	<1.35		A					
Chrysene	<2.09		A					
Dibenzo(a,h)anthracene	<1.83		A					
Dibenzofuran	<1.64		A					
Di-n-butylphthalate	68.8	68.8	A		0.00	27.5 - 110.1		
2,4-Dichlorophenol	48.6	60.5	A		-0.98	24.0 - 97.1		
2,6-Dichlorophenol	<1.64		A					
Diethylphthalate	65.8	61.1	A		0.30	13.3 - 108.8		
2,4-Dimethylphenol	49.0	57.0	A		-0.57	14.7 - 99.2		
Dimethylphthalate	127	102.1	A		0.63	15.4 - 221.2		
2,4-Dinitrophenol	<7.11		A					
2,4-Dinitrotoluene	43.6	45.0	A		-0.16	19.2 - 70.8		
2,6-Dinitrotoluene	139	139.5	A		-0.02	70.3 - 208.7		
Di-n-octylphthalate	37.5	54.4	A		-1.35	16.8 - 92.0		
Bis(2-ethylhexyl)phthalate	38.6	50.9	A		-1.12	17.8 - 84.0		
Fluoranthene	<1.81		A					
Fluorene	32.3	35.2	A		-0.45	16.0 - 54.3		
Hexachlorobenzene	20.1	48.8	N		-3.57	24.7 - 73.0		
Hexachlorocyclopentadiene	<1.87		A					
Indeno(1,2,3-c,d)pyrene	<1.87		A					
Isophorone	<1.41		A					
4,6-Dinitro-2-methylphenol	<1.40		A					
2-Methylnaphthalene	56.6	57.1	A		-0.04	15.7 - 98.5		
2-Methylphenol	54.7	63.8	A		-0.58	16.8 - 110.7		
4-Nitrophenol	<2.41		A					
3-Methyl & 4-Methylphenol	<2.55		A					
2-Nitrophenol	<1.95		A					
Pentachlorophenol	<2.26		A					
Phenanthrene	37.2	41.9	A		-0.77	23.4 - 60.4		
Phenol	<1.76		A					
Pyrene	26.5	46.9	A		-2.10	17.7 - 76.2		
2,4,5-Trichlorophenol	79.8	88.5	A		-0.52	38.5 - 138.6		
2,4,6-Trichlorophenol	<1.64		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative

Mixed Analyte Performance Evaluation Program

Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-07-OrW18
Paragon Analytics a Division of DataChem Laboratories, Inc. (ANTE01)
225 Commerce Drive
Fort Collins, CO 80524-1416

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	<0.0472		A					
delta-BHC	3.46	3.29	A		0.26	1.29 - 5.28		
alpha-BHC	<0.0472		A					
beta-BHC	4.6	4.69	A		-0.11	2.16 - 7.22		
gamma-BHC (Lindane)	5.86	5.59	A		0.26	2.54 - 8.64		
4,4'-DDD	0.23		A					
4,4'-DDE	0.141		A					
4,4'-DDT	3.59	5.30	A		-1.66	2.20 - 8.39		
Dieldrin	7.91	8.53	A		-0.46	4.53 - 12.52		
Endosulfan I	<0.0472		A					
Endosulfan II	<0.0472		A					
Endosulfan sulfate	<0.0472		A					
Endrin Aldehyde	<0.0472		A					
Endrin	0.0613		A					
Heptachlor	2.56	3.32	A		-1.11	1.27 - 5.37		
Heptachlor epoxide	<0.0472		A					
Methoxychlor	<0.236		A					
1,2-Dichlorobenzene	44.9	39.7	A		0.47	6.1 - 73.2		
1,3-Dichlorobenzene	92.4	83.8	A		0.38	15.8 - 151.7		
1,4-Dichlorobenzene	<9.57		A					
Hexachlorobutadiene	47.3	51.7	A		-0.30	8.2 - 95.2		
Hexachloroethane	<9.57		A					
Naphthalene	92.2	103.3	A		-0.51	37.1 - 169.6		
Nitrobenzene	<9.57		A					
1,2,4-Trichlorobenzene	<9.57		A					
Acenaphthene	24.8	29.3	A		-0.95	15.1 - 43.4		
Acenaphthylene	<9.57		A					
Anthracene	29	33.5	A		-0.82	16.9 - 50.2		
Benzo(a)anthracene	41.1	47.4	A		-0.84	24.7 - 70.1		
Benzo(a)pyrene	79.4	85.2	A		-0.33	32.5 - 138.0		
Benzo(b)fluoranthene	74.5	90.2	A		-0.94	40.3 - 140.0		
Benzo(g,h,i)perylene	109	125.1	A		-0.73	58.7 - 191.5		
Benzo(k)fluoranthene	<9.57		A					
4-Bromophenyl-phenylether	<9.57		A					
Butylbenzylphthalate	<9.57		A					
4-Chloro-3-methylphenol	<9.57		A					

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
bis(2-chloroethoxy)methane	<9.57		A					
bis(2-chloroethyl)ether	<9.57		A					
bis(2-chloroisopropyl)ether	<9.57		A					
2-Chloronaphthalene	83.6	91.5	A		-0.44	37.1 - 145.9		
2-Chlorophenol	126	118.3	A		0.31	43.6 - 193.1		
4-Chlorophenyl-phenylether	<9.57		A					
Chrysene	<9.57		A					
Dibenzo(a,h)anthracene	<9.57		A					
Dibenzofuran	<9.57		A					
Di-n-butylphthalate	58.2	68.8	A		-0.77	27.5 - 110.1		
2,4-Dichlorophenol	60.2	60.5	A		-0.03	24.0 - 97.1		
Diethylphthalate	52.9	61.1	A		-0.51	13.3 - 108.8		
2,4-Dimethylphenol	51.5	57.0	A		-0.39	14.7 - 99.2		
Dimethylphthalate	112	102.1	A		0.25	15.4 - 221.2		
2,4-Dinitrophenol	<19.1		A					
2,4-Dinitrotoluene	38.8	45.0	A		-0.72	19.2 - 70.8		
2,6-Dinitrotoluene	126	139.5	A		-0.58	70.3 - 208.7		
Di-n-octylphthalate	50.1	54.4	A		-0.34	16.8 - 92.0		
Bis(2-ethylhexyl)phthalate	45.5	50.9	A		-0.49	17.8 - 84.0		
Fluoranthene	<9.57		A					
Fluorene	31.8	35.2	A		-0.53	16.0 - 54.3		
Hexachlorobenzene	39.6	48.8	A		-1.15	24.7 - 73.0		
Hexachlorocyclopentadiene	<9.57		A					
Indeno(1,2,3-c,d)pyrene	<9.57		A					
Isophorone	<9.57		A					
4,6-Dinitro-2-methylphenol	<19.1		A					
2-Methylnaphthalene	63.5	57.1	A		0.46	15.7 - 98.5		
4-Nitrophenol	<19.1		A					
2-Methylphenol	69.7	63.8	A		0.38	16.8 - 110.7		
3-Methyl & 4-Methylphenol	<9.57		A					
2-Nitrophenol	<9.57		A					
Pentachlorophenol	<19.1		A					
Phenanthrene	36	41.9	A		-0.96	23.4 - 60.4		
Phenol	<9.57		A					
Pyrene	41.6	46.9	A		-0.55	17.7 - 76.2		
2,4,5-Trichlorophenol	79.6	88.5	A		-0.54	38.5 - 138.6		
2,4,6-Trichlorophenol	<9.57		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative

Mixed Analyte Performance Evaluation Program

Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-07-OrW18
CH2M Hill Applied Science Laboratory (ASHL01)
2300 NW Walnut Blvd
Corvallis, OR 97330

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	<0.24		A				0.03	
delta-BHC	3.85	3.29	A		0.85	1.29 - 5.28	0.53	
alpha-BHC	<0.24		A				0.04	
beta-BHC	4.45	4.69	A		-0.28	2.16 - 7.22	0.70	
gamma-BHC (Lindane)	6.06	5.59	A		0.46	2.54 - 8.64	0.88	
4,4'-DDD	<0.24		A				0.03	
4,4'-DDE	<0.24		A				0.03	
4,4'-DDT	5.95	5.30	A		0.63	2.20 - 8.39	1.04	
Dieldrin	9.96	8.53	A		1.08	4.53 - 12.52	1.16	
Endosulfan I	<0.24		A				0.03	
Endosulfan II	<0.24		A				0.03	
Endosulfan sulfate	<0.24		A				0.03	
Endrin Aldehyde	<0.24		A				0.03	
Endrin	<0.24		A				0.04	
Heptachlor	3.93	3.32	A		0.89	1.27 - 5.37	0.59	
Heptachlor epoxide	<0.24		A				0.03	
Methoxychlor	<0.24		A				0.04	
1,2-Dichlorobenzene	32.5	39.7	A		-0.64	6.1 - 73.2	1.9	
1,3-Dichlorobenzene	64.2	83.8	A		-0.86	15.8 - 151.7	3.8	
1,4-Dichlorobenzene	<9.5		A				0.6	
Hexachlorobutadiene	30.7	51.7	A		-1.45	8.2 - 95.2	1.5	
Hexachloroethane	<9.5		A				0.6	
Naphthalene	82.0	103.3	A		-0.97	37.1 - 169.6	5.2	
Nitrobenzene	<9.5		A				0.6	
1,2,4-Trichlorobenzene	<9.5		A				0.5	
Acenaphthene	22.7	29.3	A		-1.39	15.1 - 43.4	1.7	
Acenaphthylene	<9.5		A				0.7	
Anthracene	23.0	33.5	A		-1.90	16.9 - 50.2	1.4	
Benzo(a)anthracene	33.9	47.4	A		-1.79	24.7 - 70.1	2.3	
Benzo(a)pyrene	58.0	85.2	A		-1.55	32.5 - 138.0	3.9	
Benzo(b)fluoranthene	51.8	90.2	A		-2.31	40.3 - 140.0	4.1	
Benzo(g,h,i)perylene	70.4	125.1	A		-2.47	58.7 - 191.5	3.9	
Benzo(k)fluoranthene	<9.5		A				0.7	
4-Bromophenyl-phenylether	<9.5		A				0.5	
Butylbenzylphthalate	<5.7		A				0.5	
4-Chloro-3-methylphenol	<9.5		A				0.5	

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
bis(2-chloroethoxy)methane	<9.5		A				0.5	
bis(2-chloroethyl)ether	<9.5		A				0.5	
bis(2-chloroisopropyl)ether	<9.5		A				0.9	
2-Chloronaphthalene	67.8	91.5	A		-1.31	37.1 - 145.9	4.3	
2-Chlorophenol	87.2	118.3	A		-1.25	43.6 - 193.1	4.4	
4-Chlorophenyl-phenylether	<9.5		A				0.6	
Chrysene	<9.5		A				0.6	
Dibenzo(a,h)anthracene	<9.5		A				0.6	
Dibenzofuran	<9.5		A				0.6	
Di-n-butylphthalate	50.6	68.8	A		-1.32	27.5 - 110.1	3.2	
2,4-Dichlorophenol	47.8	60.5	A		-1.05	24.0 - 97.1	2.4	
Diethylphthalate	49.2	61.1	A		-0.74	13.3 - 108.8	3.2	
2,4-Dimethylphenol	46.6	57.0	A		-0.74	14.7 - 99.2	2.4	
Dimethylphthalate	97.3	102.1	A		-0.12	15.4 - 221.2	7.4	
2,4-Dinitrophenol	<23.8		A				1.6	
2,4-Dinitrotoluene	30.7	45.0	A		-1.66	19.2 - 70.8	2.0	
2,6-Dinitrotoluene	97.6	139.5	A		-1.82	70.3 - 208.7	6.7	
Di-n-octylphthalate	32.2	54.4	A		-1.77	16.8 - 92.0	2.8	
Bis(2-ethylhexyl)phthalate	34.0	50.9	A		-1.53	17.8 - 84.0	2.9	
Fluoranthene	<9.5		A				0.6	
Fluorene	25.0	35.2	A		-1.59	16.0 - 54.3	1.8	
Hexachlorobenzene	35.8	48.8	A		-1.62	24.7 - 73.0	1.9	
Hexachlorocyclopentadiene	<9.5		A				0.7	
Indeno(1,2,3-c,d)pyrene	<9.5		A				0.6	
Isophorone	<9.5		A				0.5	
4,6-Dinitro-2-methylphenol	<23.8		A				1.5	
2-Methylnaphthalene	50.6	57.1	A		-0.47	15.7 - 98.5	3.6	
2-Methylphenol	49.6	63.8	A		-0.91	16.8 - 110.7	3.3	
4-Nitrophenol	<9.5		A				1.2	
3-Methyl & 4-Methylphenol	<9.5		A				0.8	
2-Nitrophenol	<9.5		A				0.5	
Pentachlorophenol	<9.5		A				0.7	
Phenanthrene	31.7	41.9	A		-1.66	23.4 - 60.4	2.2	
Phenol	<9.5		A				0.4	
Pyrene	30.3	46.9	A		-1.71	17.7 - 76.2	2.1	
2,4,5-Trichlorophenol	54.7	88.5	A		-2.03	38.5 - 138.6	3.8	
2,4,6-Trichlorophenol	<9.5		A				0.6	

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative

Mixed Analyte Performance Evaluation Program

Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-07-OrW18
BWXT Y-12, Analytical Chemistry Organization Laboratory (AY1201)
Y12, NSC, Bldg. 9995, Rm 142
Oak Ridge, TN 37831-8189

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	<0.04		A					
delta-BHC	3.45	3.29	A		0.25	1.29 - 5.28		
alpha-BHC	<0.04		A					
beta-BHC	4.45	4.69	A		-0.28	2.16 - 7.22		
gamma-BHC (Lindane)	5.71	5.59	A		0.12	2.54 - 8.64		
4,4'-DDD	<0.08		A					
4,4'-DDE	<0.08		A					
4,4'-DDT	5.71	5.30	A		0.40	2.20 - 8.39		
Dieldrin	9.2	8.53	A		0.51	4.53 - 12.52		
Endosulfan I	<0.04		A					
Endosulfan II	<0.08		A					
Endosulfan sulfate	<0.08		A					
Endrin Aldehyde	<0.08		A					
Endrin	<0.08		A					
Heptachlor	2.79	3.32	A		-0.77	1.27 - 5.37		
Heptachlor epoxide	<0.04		A					
Methoxychlor	<0.4		A					
1,2-Dichlorobenzene	44.0	39.7	A		0.39	6.1 - 73.2		
1,3-Dichlorobenzene	91.8	83.8	A		0.36	15.8 - 151.7		
1,4-Dichlorobenzene	<10		A					
Hexachlorobutadiene	58.9	51.7	A		0.50	8.2 - 95.2		
Hexachloroethane	<10		A					
Naphthalene	82.2	103.3	A		-0.96	37.1 - 169.6		
Nitrobenzene	<10		A					
1,2,4-Trichlorobenzene	<10		A					
Acenaphthene	27.6	29.3	A		-0.35	15.1 - 43.4		
Acenaphthylene	<10		A					
Anthracene	28.1	33.5	A		-0.98	16.9 - 50.2		
Benzo(a)anthracene	47.7	47.4	A		0.04	24.7 - 70.1		
Benzo(a)pyrene	86.3	85.2	A		0.06	32.5 - 138.0		
Benzo(b)fluoranthene	59.3	90.2	A		-1.86	40.3 - 140.0		
Benzo(g,h,i)perylene	154	125.1	A		1.31	58.7 - 191.5		
Benzo(k)fluoranthene	<10		A					
4-Bromophenyl-phenylether	<10		A					
Butylbenzylphthalate	<10		A					
4-Chloro-3-methylphenol	<10		A					

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
bis(2-chloroethoxy)methane	<10		A					
bis(2-chloroethyl)ether	<10		A					
bis(2-chloroisopropyl)ether	<10		A					
2-Chloronaphthalene	51.9	91.5	A		-2.19	37.1 - 145.9		
2-Chlorophenol	96.7	118.3	A		-0.87	43.6 - 193.1		
4-Chlorophenyl-phenylether	<10		A					
Chrysene	<10		A					
Dibenzo(a,h)anthracene	<10		A					
Dibenzofuran	<10		A					
Di-n-butylphthalate	44.4	68.8	A		-1.77	27.5 - 110.1		
2,4-Dichlorophenol	58.5	60.5	A		-0.17	24.0 - 97.1		
2,6-Dichlorophenol	<10		A					
Diethylphthalate	57.7	61.1	A		-0.21	13.3 - 108.8		
2,4-Dimethylphenol	60.8	57.0	A		0.27	14.7 - 99.2		
Dimethylphthalate	120	102.1	A		0.45	15.4 - 221.2		
2,4-Dinitrophenol	<19		A					
2,4-Dinitrotoluene	44.6	45.0	A		-0.04	19.2 - 70.8		
2,6-Dinitrotoluene	131	139.5	A		-0.37	70.3 - 208.7		
Di-n-octylphthalate	46.4	54.4	A		-0.64	16.8 - 92.0		
Bis(2-ethylhexyl)phthalate	53.1	50.9	A		0.20	17.8 - 84.0		
Fluoranthene	<10		A					
Fluorene	29.1	35.2	A		-0.95	16.0 - 54.3		
Hexachlorobenzene	41.6	48.8	A		-0.90	24.7 - 73.0		
Hexachlorocyclopentadiene	<10		A					
Indeno(1,2,3-c,d)pyrene	<10		A					
Isophorone	<10		A					
4,6-Dinitro-2-methylphenol	<19		A					
2-Methylnaphthalene	40.5	57.1	A		-1.20	15.7 - 98.5		
4-Nitrophenol	<19		A					
2-Methylphenol	66.8	63.8	A		0.19	16.8 - 110.7		
3-Methyl & 4-Methylphenol	<19		A					
2-Nitrophenol	<10		A					
Pentachlorophenol	<19		A					
Phenanthrene	21.9	41.9	N		-3.25	23.4 - 60.4		
Phenol	<10		A					
Pyrene	51.8	46.9	A		0.50	17.7 - 76.2		
2,4,5-Trichlorophenol	82.3	88.5	A		-0.37	38.5 - 138.6		
2,4,6-Trichlorophenol	<10		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative

Mixed Analyte Performance Evaluation Program

Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-07-OrW18
BC Laboratories, Inc (BCLI01)
4100 Atlas Court
Bakersfield, CA 93308

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
delta-BHC	3.33	3.29	A		0.07	1.29 - 5.28		
beta-BHC	5.46	4.69	A		0.91	2.16 - 7.22		
gamma-BHC (Lindane)	6.36	5.59	A		0.76	2.54 - 8.64		
4,4'-DDT	4.55	5.30	A		-0.73	2.20 - 8.39		
Dieldrin	8.84	8.53	A		0.24	4.53 - 12.52		
Heptachlor	3.83	3.32	A		0.75	1.27 - 5.37		
1,2-Dichlorobenzene	44.9	39.7	A		0.47	6.1 - 73.2		
1,3-Dichlorobenzene	88.3	83.8	A		0.20	15.8 - 151.7		
Hexachlorobutadiene	47.7	51.7	A		-0.28	8.2 - 95.2		
Naphthalene	96.8	103.3	A		-0.30	37.1 - 169.6		
Acenaphthene	34.4	29.3	A		1.09	15.1 - 43.4		
Anthracene	36.3	33.5	A		0.50	16.9 - 50.2		
Benzo(a)anthracene	38.7	47.4	A		-1.15	24.7 - 70.1		
Benzo(a)pyrene	80.5	85.2	A		-0.27	32.5 - 138.0		
Benzo(b)fluoranthene	63.9	90.2	A		-1.58	40.3 - 140.0		
Benzo(g,h,i)perylene	91.2	125.1	A		-1.53	58.7 - 191.5		
2-Chloronaphthalene	92.4	91.5	A		0.05	37.1 - 145.9		
2-Chlorophenol	98.5	118.3	A		-0.80	43.6 - 193.1		
Di-n-butylphthalate	66.4	68.8	A		-0.17	27.5 - 110.1		
2,4-Dichlorophenol	71.1	60.5	A		0.87	24.0 - 97.1		
Diethylphthalate	54.6	61.1	A		-0.41	13.3 - 108.8		
2,4-Dimethylphenol	64.5	57.0	A		0.54	14.7 - 99.2		
Dimethylphthalate	85.2	102.1	A		-0.43	15.4 - 221.2		
2,4-Dinitrotoluene	47.2	45.0	A		0.26	19.2 - 70.8		
2,6-Dinitrotoluene	105	139.5	A		-1.49	70.3 - 208.7		
Di-n-octylphthalate	51	54.4	A		-0.27	16.8 - 92.0		
Bis(2-ethylhexyl)phthalate	41.6	50.9	A		-0.85	17.8 - 84.0		
Fluorene	41	35.2	A		0.92	16.0 - 54.3		
Hexachlorobenzene	30.7	48.8	A		-2.25	24.7 - 73.0		
2-Methylnaphthalene	65.6	57.1	A		0.62	15.7 - 98.5		
2-Methylphenol	74.4	63.8	A		0.68	16.8 - 110.7		
Phenanthrene	45.9	41.9	A		0.64	23.4 - 60.4		
Pyrene	37.2	46.9	A		-1.00	17.7 - 76.2		
2,4,5-Trichlorophenol	82.7	88.5	A		-0.35	38.5 - 138.6		

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative

Mixed Analyte Performance Evaluation Program

Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-07-OrW18
Northeast Laboratory Services, Inc. (BNEL01)
PO Box 788
Waterville, ME 04903-0788

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	<0.05		A					
delta-BHC	7.81	3.29	N		6.79	1.29 - 5.28		
beta-BHC	5.16	4.69	A		0.56	2.16 - 7.22		
gamma-BHC (Lindane)	6.88	5.59	A		1.27	2.54 - 8.64		
4,4'-DDD	<0.10		A					
4,4'-DDE	<0.10		A					
4,4'-DDT	6.44	5.30	A		1.11	2.20 - 8.39		
Dieldrin	10.5	8.53	A		1.48	4.53 - 12.52		
Endosulfan I	<0.05		A					
Endosulfan II	<0.10		A					
Endosulfan sulfate	<0.10		A					
Endrin Aldehyde	<0.10		A					
Endrin	<0.10		A					
Heptachlor	4.32	3.32	A		1.46	1.27 - 5.37		
Heptachlor epoxide	<0.05		A					
Methoxychlor	<0.50		A					
1,2-Dichlorobenzene	42.4	39.7	A		0.24	6.1 - 73.2		
1,3-Dichlorobenzene	76.5	83.8	A		-0.32	15.8 - 151.7		
1,4-Dichlorobenzene	<10.0		A					
Hexachlorobutadiene	49.5	51.7	A		-0.15	8.2 - 95.2		
Hexachloroethane	<10.0		A					
Naphthalene	88.0	103.3	A		-0.70	37.1 - 169.6		
Nitrobenzene	<10.0		A					
1,2,4-Trichlorobenzene	<10.0		A					
Acenaphthene	28.1	29.3	A		-0.25	15.1 - 43.4		
Acenaphthylene	<10.0		A					
Anthracene	33.2	33.5	A		-0.06	16.9 - 50.2		
Benzo(a)anthracene	42.0	47.4	A		-0.72	24.7 - 70.1		
Benzo(a)pyrene	83.8	85.2	A		-0.08	32.5 - 138.0		
Benzo(b)fluoranthene	77.4	90.2	A		-0.77	40.3 - 140.0		
Benzo(g,h,i)perylene	111	125.1	A		-0.64	58.7 - 191.5		
Benzo(k)fluoranthene	<10.0		A					
4-Bromophenyl-phenylether	<10		A					
4-Chloro-3-methylphenol	<20.0		A					
bis(2-chloroethoxy)methane	<10.0		A					
bis(2-chloroethyl)ether	<10.0		A					

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
bis(2-chloroisopropyl)ether	<10.0		A					
2-Chloronaphthalene	88.7	91.5	A		-0.16	37.1 - 145.9		
2-Chlorophenol	106	118.3	A		-0.49	43.6 - 193.1		
4-Chlorophenyl-phenylether	<10.0		A					
Chrysene	<10.0		A					
Dibenzo(a,h)anthracene	<10.0		A					
Dibenzofuran	<10.0		A					
Di-n-butylphthalate	71.4	68.8	A		0.19	27.5 - 110.1		
2,4-Dichlorophenol	59.3	60.5	A		-0.10	24.0 - 97.1		
Diethylphthalate	69.9	61.1	A		0.56	13.3 - 108.8		
2,4-Dimethylphenol	57.6	57.0	A		0.05	14.7 - 99.2		
Dimethylphthalate	107	102.1	A		0.12	15.4 - 221.2		
2,4-Dinitrophenol	<50.0		A					
2,4-Dinitrotoluene	49.6	45.0	A		0.54	19.2 - 70.8		
2,6-Dinitrotoluene	136	139.5	A		-0.15	70.3 - 208.7		
Di-n-octylphthalate	62.6	54.4	A		0.65	16.8 - 92.0		
Bis(2-ethylhexyl)phthalate	63.0	50.9	A		1.10	17.8 - 84.0		
Fluoranthene	<10.0		A					
Fluorene	36.3	35.2	A		0.18	16.0 - 54.3		
Hexachlorobenzene	37.1	48.8	A		-1.46	24.7 - 73.0		
Hexachlorocyclopentadiene	<10.0		A					
Indeno(1,2,3-c,d)pyrene	<10.0		A					
Isophorone	<10.0		A					
4,6-Dinitro-2-methylphenol	<50.0		A					
2-Methylnaphthalene	63.9	57.1	A		0.49	15.7 - 98.5		
2-Methylphenol	83.5	63.8	A		1.26	16.8 - 110.7		
4-Nitrophenol	<50.0		A					
3-Methyl & 4-Methylphenol	<10.0		A					
2-Nitrophenol	<10.0		A					
Pentachlorophenol	<50.0		A					
Phenanthrene	36.4	41.9	A		-0.90	23.4 - 60.4		
Phenol	<10.0		A					
Pyrene	48.3	46.9	A		0.14	17.7 - 76.2		
2,4,5-Trichlorophenol	92.1	88.5	A		0.21	38.5 - 138.6		
2,4,6-Trichlorophenol	<10.0		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative

Mixed Analyte Performance Evaluation Program

Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-07-OrW18
Caltest Analytical Laboratory (CALN01)
1885 N. Kelly Road
Napa, CA 94558

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
delta-BHC	NR	3.29				1.29 - 5.28		
beta-BHC	NR	4.69				2.16 - 7.22		
gamma-BHC (Lindane)	NR	5.59				2.54 - 8.64		
4,4'-DDT	NR	5.30				2.20 - 8.39		
Dieldrin	NR	8.53				4.53 - 12.52		
Heptachlor	NR	3.32				1.27 - 5.37		
1,2-Dichlorobenzene	16.7	39.7	A		-2.05	6.1 - 73.2		
1,3-Dichlorobenzene	33.1	83.8	A		-2.24	15.8 - 151.7		
Hexachlorobutadiene	17.9	51.7	A		-2.33	8.2 - 95.2		
Naphthalene	38.7	103.3	A		-2.93	37.1 - 169.6		
Acenaphthene	14.8	29.3	N		-3.07	15.1 - 43.4		
Anthracene	21.2	33.5	A		-2.23	16.9 - 50.2		
Benzo(a)anthracene	27.9	47.4	A		-2.58	24.7 - 70.1		
Benzo(a)pyrene	75.4	85.2	A		-0.56	32.5 - 138.0		
Benzo(b)fluoranthene	NR	90.2	N	(2)		40.3 - 140.0		
Benzo(g,h,i)perylene	86.8	125.1	A		-1.73	58.7 - 191.5		
Benzo(k)fluoranthene	69.1		N	(1)				
2-Chloronaphthalene	43.4	91.5	A		-2.66	37.1 - 145.9		
2-Chlorophenol	52.6	118.3	A		-2.64	43.6 - 193.1		
Di-n-butylphthalate	73.2	68.8	A		0.32	27.5 - 110.1		
2,4-Dichlorophenol	30.8	60.5	A		-2.44	24.0 - 97.1		
Diethylphthalate	45.8	61.1	A		-0.96	13.3 - 108.8		
2,4-Dimethylphenol	29.4	57.0	A		-1.96	14.7 - 99.2		
Dimethylphthalate	83.7	102.1	A		-0.47	15.4 - 221.2		
2,4-Dinitrotoluene	30.2	45.0	A		-1.72	19.2 - 70.8		
2,6-Dinitrotoluene	28.3	139.5	N		-4.82	70.3 - 208.7		
Di-n-octylphthalate	NR	54.4				16.8 - 92.0		
Bis(2-ethylhexyl)phthalate	43.3	50.9	A		-0.69	17.8 - 84.0		
Fluorene	20.7	35.2	A		-2.27	16.0 - 54.3		
Hexachlorobenzene	30.1	48.8	A		-2.33	24.7 - 73.0		
2-Methylnaphthalene	27.0	57.1	A		-2.18	15.7 - 98.5		
2-Methylphenol	30.9	63.8	A		-2.10	16.8 - 110.7		
Phenanthrene	26.2	41.9	A		-2.55	23.4 - 60.4		
Pyrene	NR	46.9				17.7 - 76.2		
2,4,5-Trichlorophenol	57.9	88.5	A		-1.84	38.5 - 138.6		

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative

Mixed Analyte Performance Evaluation Program

Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-07-OrW18
California Department of Public Health (CDHS01)
Sanitation & Radiation Lab.
Richmond, CA 94804-6403

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	<0.3		A					
delta-BHC	3.35	3.29	A		0.10	1.29 - 5.28		
alpha-BHC	<0.4		A					
beta-BHC	4.32	4.69	A		-0.44	2.16 - 7.22		
gamma-BHC (Lindane)	4.81	5.59	A		-0.77	2.54 - 8.64		
4,4'-DDD	<0.8		A					
4,4'-DDE	<0.5		A					
4,4'-DDT	5.23	5.30	A		-0.07	2.20 - 8.39		
Dieldrin	6.93	8.53	A		-1.20	4.53 - 12.52		
Endosulfan I	<0.7		A					
Endosulfan II	<0.9		A					
Endosulfan sulfate	<0.5		A					
Endrin Aldehyde	<0.7		A					
Endrin	<0.7		A					
Heptachlor	3.00	3.32	A		-0.47	1.27 - 5.37		
Heptachlor epoxide	<0.4		A					
Methoxychlor	<0.3		A					
1,2-Dichlorobenzene	21.2	39.7	A		-1.65	6.1 - 73.2		
1,3-Dichlorobenzene	46.5	83.8	A		-1.64	15.8 - 151.7		
1,4-Dichlorobenzene	<5		A					
Hexachlorobutadiene	22.1	51.7	A		-2.04	8.2 - 95.2		
Hexachloroethane	<5		A					
Naphthalene	59.5	103.3	A		-1.99	37.1 - 169.6		
Nitrobenzene	<5		A					
1,2,4-Trichlorobenzene	<5		A					
Acenaphthene	21.6	29.3	A		-1.62	15.1 - 43.4		
Acenaphthylene	<3		A					
Anthracene	23.2	33.5	A		-1.86	16.9 - 50.2		
Benzo(a)anthracene	25.2	47.4	A		-2.94	24.7 - 70.1		
Benzo(a)pyrene	68.7	85.2	A		-0.94	32.5 - 138.0		
Benzo(b)fluoranthene	69.8	90.2	A		-1.23	40.3 - 140.0		
Benzo(g,h,i)perylene	100	125.1	A		-1.13	58.7 - 191.5		
Benzo(k)fluoranthene	<5		A					
Butylbenzylphthalate	<5		A					
4-Chloro-3-methylphenol	<10		A					
2-Chloronaphthalene	56.5	91.5	A		-1.93	37.1 - 145.9		

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
2-Chlorophenol	65.4	118.3	A		-2.12	43.6 - 193.1		
Chrysene	<5		A					
Dibenzo(a,h)anthracene	<5		A					
Dibenzofuran	<10		A					
Di-n-butylphthalate	74.2	68.8	A		0.39	27.5 - 110.1		
2,4-Dichlorophenol	36.2	60.5	A		-2.00	24.0 - 97.1		
2,6-Dichlorophenol	<10		A					
Diethylphthalate	59.4	61.1	A		-0.10	13.3 - 108.8		
2,4-Dimethylphenol	31.9	57.0	A		-1.78	14.7 - 99.2		
Dimethylphthalate	93.5	102.1	A		-0.22	15.4 - 221.2		
2,4-Dinitrophenol	<20		A					
2,4-Dinitrotoluene	41.4	45.0	A		-0.41	19.2 - 70.8		
2,6-Dinitrotoluene	122	139.5	A		-0.76	70.3 - 208.7		
Di-n-octylphthalate	39.9	54.4	A		-1.16	16.8 - 92.0		
Bis(2-ethylhexyl)phthalate	40.2	50.9	A		-0.97	17.8 - 84.0		
Fluoranthene	<10		A					
Fluorene	25.1	35.2	A		-1.58	16.0 - 54.3		
Hexachlorobenzene	24.1	48.8	N		-3.08	24.7 - 73.0		
Hexachlorocyclopentadiene	<10		A					
Indeno(1,2,3-c,d)pyrene	<5		A					
Isophorone	<10		A					
4,6-Dinitro-2-methylphenol	<15		A					
2-Methylnaphthalene	39.2	57.1	A		-1.30	15.7 - 98.5		
4-Nitrophenol	<10		A					
2-Methylphenol	37.7	63.8	A		-1.67	16.8 - 110.7		
3-Methyl & 4-Methylphenol	<10		A					
2-Nitrophenol	<15		A					
Pentachlorophenol	<15		A					
Phenanthrene	33.5	41.9	A		-1.37	23.4 - 60.4		
Phenol	<10		A					
Pyrene	24.7	46.9	A		-2.28	17.7 - 76.2		
2,4,5-Trichlorophenol	67.5	88.5	A		-1.26	38.5 - 138.6		
2,4,6-Trichlorophenol	<15		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative

Mixed Analyte Performance Evaluation Program

Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-07-OrW18
TestAmerica Denver (CORE02)
4955 Yarrow St
Arvada, CO 80002

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
delta-BHC	NR	3.29				1.29 - 5.28		
beta-BHC	NR	4.69				2.16 - 7.22		
gamma-BHC (Lindane)	NR	5.59				2.54 - 8.64		
4,4'-DDT	NR	5.30				2.20 - 8.39		
Dieldrin	NR	8.53				4.53 - 12.52		
Heptachlor	NR	3.32				1.27 - 5.37		
1,2-Dichlorobenzene	51	39.7	A		1.01	6.1 - 73.2		
1,3-Dichlorobenzene	110	83.8	A		1.16	15.8 - 151.7		
Hexachlorobutadiene	64	51.7	A		0.85	8.2 - 95.2		
Naphthalene	120	103.3	A		0.76	37.1 - 169.6		
Acenaphthene	30	29.3	A		0.16	15.1 - 43.4		
Anthracene	27	33.5	A		-1.18	16.9 - 50.2		
Benzo(a)anthracene	33	47.4	A		-1.91	24.7 - 70.1		
Benzo(a)pyrene	61	85.2	A		-1.38	32.5 - 138.0		
Benzo(b)fluoranthene	60	90.2	A		-1.82	40.3 - 140.0		
Benzo(g,h,i)perylene	100	125.1	A		-1.13	58.7 - 191.5		
2-Chloronaphthalene	110	91.5	A		1.02	37.1 - 145.9		
2-Chlorophenol	130	118.3	A		0.47	43.6 - 193.1		
Di-n-butylphthalate	72	68.8	A		0.23	27.5 - 110.1		
2,4-Dichlorophenol	68	60.5	A		0.61	24.0 - 97.1		
Diethylphthalate	66	61.1	A		0.31	13.3 - 108.8		
2,4-Dimethylphenol	67	57.0	A		0.71	14.7 - 99.2		
Dimethylphthalate	130	102.1	A		0.70	15.4 - 221.2		
2,4-Dinitrotoluene	42	45.0	A		-0.34	19.2 - 70.8		
2,6-Dinitrotoluene	130	139.5	A		-0.41	70.3 - 208.7		
Di-n-octylphthalate	44	54.4	A		-0.83	16.8 - 92.0		
Bis(2-ethylhexyl)phthalate	44	50.9	A		-0.63	17.8 - 84.0		
Fluorene	35	35.2	A		-0.02	16.0 - 54.3		
Hexachlorobenzene	22	48.8	N		-3.34	24.7 - 73.0		
2-Methylnaphthalene	NR	57.1				15.7 - 98.5		
2-Methylphenol	74	63.8	A		0.65	16.8 - 110.7		
Phenanthrene	40	41.9	A		-0.31	23.4 - 60.4		
Pyrene	29	46.9	A		-1.84	17.7 - 76.2		
2,4,5-Trichlorophenol	90	88.5	A		0.09	38.5 - 138.6		

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative

Mixed Analyte Performance Evaluation Program

Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-07-OrW18
Davis & Floyd, Inc. (DAFI01)
PO Drawer 428
Greenwood, SC 29648

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	<0.050		A					
delta-BHC	2.8	3.29	A		-0.73	1.29 - 5.28		
alpha-BHC	<0.050		A					
beta-BHC	3.8	4.69	A		-1.05	2.16 - 7.22		
gamma-BHC (Lindane)	4.6	5.59	A		-0.98	2.54 - 8.64		
4,4'-DDD	0.058		A					
4,4'-DDE	0.084		A					
4,4'-DDT	3.7	5.30	A		-1.55	2.20 - 8.39		
Dieldrin	6.6	8.53	A		-1.45	4.53 - 12.52		
Endosulfan I	<0.050		A					
Endosulfan II	<0.050		A					
Endosulfan sulfate	<0.050		A					
Endrin Aldehyde	<0.050		A					
Endrin	0.097		A					
Heptachlor	2.4	3.32	A		-1.34	1.27 - 5.37		
Heptachlor epoxide	<0.050		A					
1,2-Dichlorobenzene	28.8	39.7	A		-0.97	6.1 - 73.2		
1,3-Dichlorobenzene	58.9	83.8	A		-1.10	15.8 - 151.7		
1,4-Dichlorobenzene	<10		A					
Hexachlorobutadiene	32.6	51.7	A		-1.32	8.2 - 95.2		
Hexachloroethane	<10		A					
Naphthalene	71.6	103.3	A		-1.44	37.1 - 169.6		
Nitrobenzene	<10		A					
1,2,4-Trichlorobenzene	<10		A					
Acenaphthene	19.4	29.3	A		-2.09	15.1 - 43.4		
Acenaphthylene	<10		A					
Anthracene	19.2	33.5	A		-2.59	16.9 - 50.2		
Benzo(a)anthracene	26.5	47.4	A		-2.77	24.7 - 70.1		
Benzo(a)pyrene	49.1	85.2	A		-2.06	32.5 - 138.0		
Benzo(b)fluoranthene	50.0	90.2	A		-2.42	40.3 - 140.0		
Benzo(g,h,i)perylene	71.1	125.1	A		-2.44	58.7 - 191.5		
Benzo(k)fluoranthene	<10		A					
Butylbenzylphthalate	<10		A					
4-Chloro-3-methylphenol	<10		A					
2-Chloronaphthalene	61.9	91.5	A		-1.63	37.1 - 145.9		
2-Chlorophenol	79.2	118.3	A		-1.57	43.6 - 193.1		

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Chrysene	<10		A					
Dibenzo(a,h)anthracene	<10		A					
Dibenzofuran	<10		A					
Di-n-butylphthalate	47.7	68.8	A		-1.53	27.5 - 110.1		
2,4-Dichlorophenol	40.0	60.5	A		-1.69	24.0 - 97.1		
Diethylphthalate	46.2	61.1	A		-0.93	13.3 - 108.8		
2,4-Dimethylphenol	41.3	57.0	A		-1.11	14.7 - 99.2		
Dimethylphthalate	88.8	102.1	A		-0.34	15.4 - 221.2		
2,4-Dinitrophenol	<25		A					
2,4-Dinitrotoluene	31.1	45.0	A		-1.61	19.2 - 70.8		
2,6-Dinitrotoluene	91.3	139.5	A		-2.09	70.3 - 208.7		
Di-n-octylphthalate	28.9	54.4	A		-2.04	16.8 - 92.0		
Bis(2-ethylhexyl)phthalate	31.4	50.9	A		-1.77	17.8 - 84.0		
Fluoranthene	<10		A					
Fluorene	25.9	35.2	A		-1.45	16.0 - 54.3		
Hexachlorobenzene	21.3	48.8	N		-3.42	24.7 - 73.0		
Hexachlorocyclopentadiene	<10		A					
Indeno(1,2,3-c,d)pyrene	<10		A					
Isophorone	<10		A					
4,6-Dinitro-2-methylphenol	<25		A					
2-Methylnaphthalene	43.2	57.1	A		-1.01	15.7 - 98.5		
2-Methylphenol	49.7	63.8	A		-0.90	16.8 - 110.7		
4-Nitrophenol	<10		A					
2-Nitrophenol	<10		A					
Pentachlorophenol	<25		A					
Phenanthrene	27.5	41.9	A		-2.34	23.4 - 60.4		
Phenol	<10		A					
Pyrene	26.3	46.9	A		-2.12	17.7 - 76.2		
2,4,5-Trichlorophenol	58.0	88.5	A		-1.83	38.5 - 138.6		
2,4,6-Trichlorophenol	<10		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative

Mixed Analyte Performance Evaluation Program

Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-07-OrW18
EMAX Laboratories, Inc (EMAX01)
1835 W. 205th St.
Torrance, CA 90501

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
delta-BHC	NR	3.29				1.29 - 5.28		
beta-BHC	NR	4.69				2.16 - 7.22		
gamma-BHC (Lindane)	NR	5.59				2.54 - 8.64		
4,4'-DDT	NR	5.30				2.20 - 8.39		
Dieldrin	NR	8.53				4.53 - 12.52		
Heptachlor	NR	3.32				1.27 - 5.37		
1,2-Dichlorobenzene	48.4304	39.7	A		0.78	6.1 - 73.2		
1,3-Dichlorobenzene	103.8906	83.8	A		0.89	15.8 - 151.7		
1,4-Dichlorobenzene	<5		A					
Hexachlorobutadiene	53.8518	51.7	A		0.15	8.2 - 95.2		
Hexachloroethane	<5		A					
Naphthalene	110.2962	103.3	A		0.32	37.1 - 169.6		
Nitrobenzene	<5		A					
1,2,4-Trichlorobenzene	<5		A					
Acenaphthene	31.4216	29.3	A		0.46	15.1 - 43.4		
Acenaphthylene	<5		A					
Anthracene	35.1672	33.5	A		0.29	16.9 - 50.2		
Benzo(a)anthracene	48.6274	47.4	A		0.16	24.7 - 70.1		
Benzo(a)pyrene	103.1212	85.2	A		1.02	32.5 - 138.0		
Benzo(b)fluoranthene	93.5826	90.2	A		0.20	40.3 - 140.0		
Benzo(g,h,i)perylene	139.43	125.1	A		0.65	58.7 - 191.5		
Benzo(k)fluoranthene	<5		A					
4-Bromophenyl-phenylether	<5		A					
Butylbenzylphthalate	<5		A					
4-Chloro-3-methylphenol	<5		A					
bis(2-chloroethoxy)methane	<5		A					
bis(2-chloroethyl)ether	<5		A					
bis(2-chloroisopropyl)ether	<5		A					
2-Chloronaphthalene	104.8602	91.5	A		0.74	37.1 - 145.9		
2-Chlorophenol	130.4622	118.3	A		0.49	43.6 - 193.1		
4-Chlorophenyl-phenylether	<5		A					
Chrysene	<5		A					
Dibenzo(a,h)anthracene	<5		A					
Dibenzofuran	<5		A					
Di-n-butylphthalate	77.5568	68.8	A		0.64	27.5 - 110.1		
2,4-Dichlorophenol	67.5502	60.5	A		0.58	24.0 - 97.1		

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
2,6-Dichlorophenol	<5		A					
Diethylphthalate	65.3166	61.1	A		0.27	13.3 - 108.8		
2,4-Dimethylphenol	70.0454	57.0	A		0.93	14.7 - 99.2		
Dimethylphthalate	126.084	102.1	A		0.60	15.4 - 221.2		
2,4-Dinitrophenol	<5		A					
2,4-Dinitrotoluene	51.5058	45.0	A		0.76	19.2 - 70.8		
2,6-Dinitrotoluene	177.0236	139.5	A		1.63	70.3 - 208.7		
Di-n-octylphthalate	56.8672	54.4	A		0.20	16.8 - 92.0		
Bis(2-ethylhexyl)phthalate	51.3346	50.9	A		0.04	17.8 - 84.0		
Fluoranthene	<5		A					
Fluorene	36.1578	35.2	A		0.16	16.0 - 54.3		
Hexachlorobenzene	50.327	48.8	A		0.19	24.7 - 73.0		
Hexachlorocyclopentadiene	<5		A					
Indeno(1,2,3-c,d)pyrene	<5		A					
Isophorone	<5		A					
4,6-Dinitro-2-methylphenol	<5		A					
2-Methylnaphthalene	67.5316	57.1	A		0.76	15.7 - 98.5		
2-Methylphenol	82.4362	63.8	A		1.19	16.8 - 110.7		
4-Nitrophenol	<5		A					
3-Methyl & 4-Methylphenol	<5		A					
2-Nitrophenol	<5		A					
Pentachlorophenol	<5		A					
Phenanthrene	40.9234	41.9	A		-0.16	23.4 - 60.4		
Phenol	<5		A					
Pyrene	50.3438	46.9	A		0.35	17.7 - 76.2		
2,4,5-Trichlorophenol	94.0314	88.5	A		0.33	38.5 - 138.6		
2,4,6-Trichlorophenol	<5		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative

Mixed Analyte Performance Evaluation Program

Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-07-OrW18
GEL Laboratories, LLC (GENE01)
2040 Savage Road
Charleston, SC 29407

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	0.0268		A					
delta-BHC	2.88	3.29	A		-0.61	1.29 - 5.28		
alpha-BHC	<0.019		A					
beta-BHC	3.90	4.69	A		-0.94	2.16 - 7.22		
gamma-BHC (Lindane)	4.95	5.59	A		-0.63	2.54 - 8.64		
4,4'-DDD	0.111		A					
4,4'-DDE	0.0606		A					
4,4'-DDT	4.60	5.30	A		-0.68	2.20 - 8.39		
Dieldrin	7.17	8.53	A		-1.02	4.53 - 12.52		
Endosulfan I	<0.019		A					
Endosulfan II	<0.0381		A					
Endosulfan sulfate	<0.0381		A					
Endrin Aldehyde	<0.0381		A					
Endrin	0.0762		A					
Heptachlor	1.90	3.32	A		-2.07	1.27 - 5.37		
Heptachlor epoxide	<0.019		A					
1,2-Dichlorobenzene	35.9	39.7	A		-0.34	6.1 - 73.2		
1,3-Dichlorobenzene	75.1	83.8	A		-0.38	15.8 - 151.7		
1,4-Dichlorobenzene	<10.0		A					
Hexachlorobutadiene	43.6	51.7	A		-0.56	8.2 - 95.2		
Hexachloroethane	<10.0		A					
Naphthalene	91.7	103.3	A		-0.53	37.1 - 169.6		
Nitrobenzene	<10.0		A					
1,2,4-Trichlorobenzene	<10.0		A					
Acenaphthene	24.7	29.3	A		-0.97	15.1 - 43.4		
Acenaphthylene	<1.0		A					
Anthracene	24.4	33.5	A		-1.65	16.9 - 50.2		
Benzo(a)anthracene	<1.0	47.4	N	(2)		24.7 - 70.1		
Benzo(a)pyrene	45.1	85.2	A		-2.28	32.5 - 138.0		
Benzo(b)fluoranthene	42.0	90.2	A		-2.90	40.3 - 140.0		
Benzo(g,h,i)perylene	92.2	125.1	A		-1.49	58.7 - 191.5		
Benzo(k)fluoranthene	<1.0		A					
Butylbenzylphthalate	<10.0		A					
4-Chloro-3-methylphenol	<10.0		A					
2-Chloronaphthalene	78.2	91.5	A		-0.74	37.1 - 145.9		
2-Chlorophenol	109	118.3	A		-0.37	43.6 - 193.1		

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Chrysene	28.6		N	(1)				
Dibenzo(a,h)anthracene	<1.0		A					
Dibenzofuran	<10.0		A					
Di-n-butylphthalate	58.7	68.8	A		-0.73	27.5 - 110.1		
2,4-Dichlorophenol	60.6	60.5	A		0.01	24.0 - 97.1		
Diethylphthalate	61.2	61.1	A		0.01	13.3 - 108.8		
2,4-Dimethylphenol	56.4	57.0	A		-0.04	14.7 - 99.2		
Dimethylphthalate	112	102.1	A		0.25	15.4 - 221.2		
2,4-Dinitrophenol	<20.0		A					
2,4-Dinitrotoluene	41.0	45.0	A		-0.46	19.2 - 70.8		
2,6-Dinitrotoluene	117	139.5	A		-0.97	70.3 - 208.7		
Di-n-octylphthalate	34.4	54.4	A		-1.60	16.8 - 92.0		
Bis(2-ethylhexyl)phthalate	39.8	50.9	A		-1.01	17.8 - 84.0		
Fluoranthene	<1.0		A					
Fluorene	32.0	35.2	A		-0.50	16.0 - 54.3		
Hexachlorobenzene	11.1	48.8	N		-4.69	24.7 - 73.0		
Hexachlorocyclopentadiene	<10.0		A					
Indeno(1,2,3-c,d)pyrene	<1.0		A					
Isophorone	<10.0		A					
4,6-Dinitro-2-methylphenol	<10.0		A					
2-Methylnaphthalene	62.8	57.1	A		0.41	15.7 - 98.5		
4-Nitrophenol	<10.0		A					
2-Methylphenol	60.9	63.8	A		-0.18	16.8 - 110.7		
3-Methyl & 4-Methylphenol	<10.0		A					
2-Nitrophenol	<10.0		A					
Pentachlorophenol	<10.0		A					
Phenanthrene	34.7	41.9	A		-1.17	23.4 - 60.4		
Phenol	<10.0		A					
Pyrene	18.4	46.9	A		-2.93	17.7 - 76.2		
2,4,5-Trichlorophenol	81.7	88.5	A		-0.41	38.5 - 138.6		
2,4,6-Trichlorophenol	<10.0		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative

Mixed Analyte Performance Evaluation Program

Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-07-OrW18
GPL Laboratories, LLLP (GPLP01)
7210A Corporate Court
Frederick, MD 21703

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
delta-BHC	3.5	3.29	A		0.32	1.29 - 5.28		
beta-BHC	4.4	4.69	A		-0.34	2.16 - 7.22		
gamma-BHC (Lindane)	5.8	5.59	A		0.21	2.54 - 8.64		
4,4'-DDT	3.9	5.30	A		-1.36	2.20 - 8.39		
Dieldrin	8.4	8.53	A		-0.10	4.53 - 12.52		
Heptachlor	2.9	3.32	A		-0.61	1.27 - 5.37		
1,2-Dichlorobenzene	NR	39.7				6.1 - 73.2		
1,3-Dichlorobenzene	NR	83.8				15.8 - 151.7		
Hexachlorobutadiene	56	51.7	A		0.30	8.2 - 95.2		
Naphthalene	100	103.3	A		-0.15	37.1 - 169.6		
Acenaphthene	31	29.3	A		0.37	15.1 - 43.4		
Anthracene	34	33.5	A		0.08	16.9 - 50.2		
Benzo(a)anthracene	43	47.4	A		-0.59	24.7 - 70.1		
Benzo(a)pyrene	120	85.2	A		1.98	32.5 - 138.0		
Benzo(b)fluoranthene	NR	90.2	N	(2)		40.3 - 140.0		
Benzo(g,h,i)perylene	160	125.1	A		1.58	58.7 - 191.5		
Benzo(k)fluoranthene	120		N	(1)				
2-Chloronaphthalene	97	91.5	A		0.30	37.1 - 145.9		
2-Chlorophenol	120	118.3	A		0.07	43.6 - 193.1		
Di-n-butylphthalate	76	68.8	A		0.52	27.5 - 110.1		
2,4-Dichlorophenol	63	60.5	A		0.20	24.0 - 97.1		
Diethylphthalate	68	61.1	A		0.44	13.3 - 108.8		
2,4-Dimethylphenol	67	57.0	A		0.71	14.7 - 99.2		
Dimethylphthalate	130	102.1	A		0.70	15.4 - 221.2		
2,4-Dinitrotoluene	55	45.0	A		1.17	19.2 - 70.8		
2,6-Dinitrotoluene	170	139.5	A		1.32	70.3 - 208.7		
Di-n-octylphthalate	63	54.4	A		0.69	16.8 - 92.0		
Bis(2-ethylhexyl)phthalate	46	50.9	A		-0.45	17.8 - 84.0		
Fluorene	36	35.2	A		0.13	16.0 - 54.3		
Hexachlorobenzene	48	48.8	A		-0.10	24.7 - 73.0		
2-Methylnaphthalene	69	57.1	A		0.86	15.7 - 98.5		
2-Methylphenol	NR	63.8				16.8 - 110.7		
Phenanthrene	42	41.9	A		0.01	23.4 - 60.4		
Pyrene	39	46.9	A		-0.81	17.7 - 76.2		
2,4,5-Trichlorophenol	85	88.5	A		-0.21	38.5 - 138.6		
2,4,6-Trichlorophenol	85		N	(1)				

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative

Mixed Analyte Performance Evaluation Program

Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-07-OrW18
ICP Analytical Services Laboratories (LOCK01)
CH2M-WG Idaho, LLC
Idaho Falls, ID 83415-5210

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
delta-BHC	NR	3.29				1.29 - 5.28		
beta-BHC	NR	4.69				2.16 - 7.22		
gamma-BHC (Lindane)	NR	5.59				2.54 - 8.64		
4,4'-DDT	NR	5.30				2.20 - 8.39		
Dieldrin	NR	8.53				4.53 - 12.52		
Heptachlor	NR	3.32				1.27 - 5.37		
1,2-Dichlorobenzene	31.9	39.7	A		-0.70	6.1 - 73.2	3.1	
1,3-Dichlorobenzene	65.4	83.8	A		-0.81	15.8 - 151.7	6.4	
1,4-Dichlorobenzene	<100		A					
Hexachlorobutadiene	38.3	51.7	A		-0.92	8.2 - 95.2	3.8	
Hexachloroethane	<100		A					
Naphthalene	86.9	103.3	A		-0.75	37.1 - 169.6	8.3	
Nitrobenzene	<100		A					
1,2,4-Trichlorobenzene	<100		A					
Acenaphthene	26.2	29.3	A		-0.65	15.1 - 43.4	2.5	
Acenaphthylene	<100		A					
Anthracene	26.2	33.5	A		-1.32	16.9 - 50.2	2.5	
Benzo(a)anthracene	33.8	47.4	A		-1.80	24.7 - 70.1	3.2	
Benzo(a)pyrene	66.7	85.2	A		-1.05	32.5 - 138.0	6.3	
Benzo(b)fluoranthene	67.2	90.2	A		-1.38	40.3 - 140.0	6.4	
Benzo(g,h,i)perylene	83.2	125.1	A		-1.89	58.7 - 191.5	7.9	
Benzo(k)fluoranthene	<100		A					
4-Bromophenyl-phenylether	<100		A					
Butylbenzylphthalate	<100		A					
4-Chloro-3-methylphenol	<100		A					
bis(2-chloroethoxy)methane	<100		A					
bis(2-chloroethyl)ether	<100		A					
bis(2-chloroisopropyl)ether	<100		A					
2-Chloronaphthalene	73.2	91.5	A		-1.01	37.1 - 145.9	7.7	
2-Chlorophenol	102	118.3	A		-0.66	43.6 - 193.1	10	
4-Chlorophenyl-phenylether	<100		A					
Chrysene	<100		A					
Dibenzo(a,h)anthracene	<100		A					
Dibenzofuran	<100		A					
Di-n-butylphthalate	55.8	68.8	A		-0.94	27.5 - 110.1	5.9	
2,4-Dichlorophenol	51.5	60.5	A		-0.74	24.0 - 97.1	5.0	

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Diethylphthalate	58.0	61.1	A		-0.19	13.3 - 108.8	6.1	
2,4-Dimethylphenol	54.2	57.0	A		-0.20	14.7 - 99.2	4.6	
Dimethylphthalate	111	102.1	A		0.22	15.4 - 221.2	12	
2,4-Dinitrophenol	<100		A					
2,4-Dinitrotoluene	33.3	45.0	A		-1.36	19.2 - 70.8	3.3	
2,6-Dinitrotoluene	103	139.5	A		-1.58	70.3 - 208.7	10	
Di-n-octylphthalate	28.9	54.4	A		-2.04	16.8 - 92.0	3.0	
Bis(2-ethylhexyl)phthalate	33.7	50.9	A		-1.56	17.8 - 84.0	3.5	
Fluoranthene	<100		A					
Fluorene	27.6	35.2	A		-1.19	16.0 - 54.3	2.6	
Hexachlorobenzene	34.6	48.8	A		-1.77	24.7 - 73.0	3.4	
Hexachlorocyclopentadiene	<100		A					
Indeno(1,2,3-c,d)pyrene	<100		A					
Isophorone	<100		A					
4,6-Dinitro-2-methylphenol	<100		A					
2-Methylnaphthalene	53.3	57.1	A		-0.28	15.7 - 98.5	5.1	
4-Nitrophenol	<100		A					
2-Methylphenol	58.2	63.8	A		-0.36	16.8 - 110.7	4.9	
3-Methyl & 4-Methylphenol	<100		A					
2-Nitrophenol	<100		A					
Pentachlorophenol	<100		A					
Phenanthrene	31.9	41.9	A		-1.63	23.4 - 60.4	3.0	
Phenol	<100		A					
Pyrene	37.9	46.9	A		-0.93	17.7 - 76.2	3.6	
2,4,5-Trichlorophenol	68.4	88.5	A		-1.21	38.5 - 138.6	6.7	
2,4,6-Trichlorophenol	<100		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative

Mixed Analyte Performance Evaluation Program

Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-07-OrW18
USEC, Inc. (MART01)
Lab COC, Bldg. X-710, Rm 222
Piketon, OH 45661-

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	<0.4		A					
delta-BHC	2.94	3.29	A		-0.52	1.29 - 5.28		
alpha-BHC	<0.4		A					
beta-BHC	4.20	4.69	A		-0.58	2.16 - 7.22		
gamma-BHC (Lindane)	5.04	5.59	A		-0.54	2.54 - 8.64		
4,4'-DDD	<0.4		A					
4,4'-DDE	<0.4		A					
4,4'-DDT	4.61	5.30	A		-0.67	2.20 - 8.39		
Dieldrin	8.04	8.53	A		-0.37	4.53 - 12.52		
Endosulfan I	<0.4		A					
Endosulfan II	<0.4		A					
Endosulfan sulfate	<0.4		A					
Endrin Aldehyde	<0.4		A					
Endrin	<0.4		A					
Heptachlor	1.91	3.32	A		-2.06	1.27 - 5.37		
Heptachlor epoxide	<0.4		A					
Methoxychlor	<0.4		A					
1,2-Dichlorobenzene	48.8	39.7	A		0.82	6.1 - 73.2		
1,3-Dichlorobenzene	107	83.8	A		1.03	15.8 - 151.7		
1,4-Dichlorobenzene	<10		A					
Hexachlorobutadiene	59.9	51.7	A		0.57	8.2 - 95.2		
Hexachloroethane	<10		A					
Naphthalene	118	103.3	A		0.66	37.1 - 169.6		
Nitrobenzene	<10		A					
1,2,4-Trichlorobenzene	<10		A					
Acenaphthene	28.8	29.3	A		-0.10	15.1 - 43.4		
Acenaphthylene	<10		A					
Anthracene	29.0	33.5	A		-0.82	16.9 - 50.2		
Benzo(a)anthracene	48.8	47.4	A		0.18	24.7 - 70.1		
Benzo(a)pyrene	93.6	85.2	A		0.48	32.5 - 138.0		
Benzo(b)fluoranthene	104	90.2	A		0.83	40.3 - 140.0		
Benzo(g,h,i)perylene	122	125.1	A		-0.14	58.7 - 191.5		
Benzo(k)fluoranthene	<10		A					
4-Bromophenyl-phenylether	<10		A					
Butylbenzylphthalate	<10		A					
4-Chloro-3-methylphenol	<20		A					

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
bis(2-chloroethoxy)methane	<10		A					
bis(2-chloroethyl)ether	<10		A					
bis(2-chloroisopropyl)ether	<10		A					
2-Chloronaphthalene	101	91.5	A		0.52	37.1 - 145.9		
2-Chlorophenol	138	118.3	A		0.79	43.6 - 193.1		
4-Chlorophenyl-phenylether	<10		A					
Chrysene	<10		A					
Dibenzo(a,h)anthracene	<10		A					
Di-n-butylphthalate	61.0	68.8	A		-0.57	27.5 - 110.1		
2,4-Dichlorophenol	62.4	60.5	A		0.15	24.0 - 97.1		
Diethylphthalate	66.2	61.1	A		0.32	13.3 - 108.8		
2,4-Dimethylphenol	40.0	57.0	A		-1.20	14.7 - 99.2		
Dimethylphthalate	149	102.1	A		1.18	15.4 - 221.2		
2,4-Dinitrophenol	<50		A					
2,4-Dinitrotoluene	48.9	45.0	A		0.46	19.2 - 70.8		
2,6-Dinitrotoluene	144	139.5	A		0.20	70.3 - 208.7		
Di-n-octylphthalate	38.2	54.4	A		-1.29	16.8 - 92.0		
Bis(2-ethylhexyl)phthalate	43.4	50.9	A		-0.68	17.8 - 84.0		
Fluoranthene	<10		A					
Fluorene	35.1	35.2	A		-0.01	16.0 - 54.3		
Hexachlorobenzene	49.8	48.8	A		0.12	24.7 - 73.0		
Indeno(1,2,3-c,d)pyrene	<10		A					
Isophorone	<10		A					
4,6-Dinitro-2-methylphenol	<50		A					
2-Methylnaphthalene	NR	57.1				15.7 - 98.5		
4-Nitrophenol	<50		A					
2-Methylphenol	71.1	63.8	A		0.47	16.8 - 110.7		
3-Methyl & 4-Methylphenol	<10		A					
2-Nitrophenol	<10		A					
Pentachlorophenol	<50		A					
Phenanthrene	37.2	41.9	A		-0.77	23.4 - 60.4		
Phenol	<10		A					
Pyrene	49.8	46.9	A		0.29	17.7 - 76.2		
2,4,5-Trichlorophenol	80.0	88.5	A		-0.51	38.5 - 138.6		
2,4,6-Trichlorophenol	<10		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative

Mixed Analyte Performance Evaluation Program

Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-07-OrW18
United States Enrichment Corporation (MART02)
PO Box 1410
Paducah, KY 42002

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
delta-BHC	NR	3.29				1.29 - 5.28		
beta-BHC	NR	4.69				2.16 - 7.22		
gamma-BHC (Lindane)	NR	5.59				2.54 - 8.64		
4,4'-DDT	NR	5.30				2.20 - 8.39		
Dieldrin	NR	8.53				4.53 - 12.52		
Heptachlor	NR	3.32				1.27 - 5.37		
1,2-Dichlorobenzene	44.3	39.7	A		0.41	6.1 - 73.2		
1,3-Dichlorobenzene	94.8	83.8	A		0.49	15.8 - 151.7		
1,4-Dichlorobenzene	<5		A					
Hexachlorobutadiene	45.6	51.7	A		-0.42	8.2 - 95.2		
Hexachloroethane	<5		A					
Naphthalene	120	103.3	A		0.76	37.1 - 169.6		
Nitrobenzene	<5		A					
1,2,4-Trichlorobenzene	<5		A					
Acenaphthene	30.5	29.3	A		0.26	15.1 - 43.4		
Acenaphthylene	<5		A					
Anthracene	36.1	33.5	A		0.46	16.9 - 50.2		
Benzo(a)anthracene	50.2	47.4	A		0.37	24.7 - 70.1		
Benzo(a)pyrene	102	85.2	A		0.95	32.5 - 138.0		
Benzo(b)fluoranthene	91.4	90.2	A		0.07	40.3 - 140.0		
Benzo(g,h,i)perylene	132	125.1	A		0.31	58.7 - 191.5		
Benzo(k)fluoranthene	<5		A					
Butylbenzylphthalate	<5		A					
4-Chloro-3-methylphenol	<5		A					
2-Chloronaphthalene	92.0	91.5	A		0.03	37.1 - 145.9		
2-Chlorophenol	119	118.3	A		0.03	43.6 - 193.1		
Chrysene	<5		A					
Dibenzo(a,h)anthracene	<5		A					
Dibenzofuran	<5		A					
Di-n-butylphthalate	68.5	68.8	A		-0.02	27.5 - 110.1		
2,4-Dichlorophenol	63.8	60.5	A		0.27	24.0 - 97.1		
2,6-Dichlorophenol	<5		A					
Diethylphthalate	66.0	61.1	A		0.31	13.3 - 108.8		
2,4-Dimethylphenol	63.9	57.0	A		0.49	14.7 - 99.2		
Dimethylphthalate	135	102.1	A		0.83	15.4 - 221.2		
2,4-Dinitrophenol	<5		A					

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
2,4-Dinitrotoluene	48.8	45.0	A		0.45	19.2 - 70.8		
2,6-Dinitrotoluene	149	139.5	A		0.41	70.3 - 208.7		
Di-n-octylphthalate	57.8	54.4	A		0.27	16.8 - 92.0		
Bis(2-ethylhexyl)phthalate	53.6	50.9	A		0.24	17.8 - 84.0		
Fluoranthene	<5		A					
Fluorene	38.0	35.2	A		0.45	16.0 - 54.3		
Hexachlorobenzene	49.4	48.8	A		0.07	24.7 - 73.0		
Hexachlorocyclopentadiene	<5		A					
Indeno(1,2,3-c,d)pyrene	<5		A					
Isophorone	<5		A					
4,6-Dinitro-2-methylphenol	<5		A					
2-Methylnaphthalene	69.3	57.1	A		0.88	15.7 - 98.5		
4-Nitrophenol	<5		A					
2-Methylphenol	62.8	63.8	A		-0.06	16.8 - 110.7		
3-Methyl & 4-Methylphenol	<5		A					
2-Nitrophenol	<5		A					
Pentachlorophenol	<5		A					
Phenanthrene	41.7	41.9	A		-0.04	23.4 - 60.4		
Phenol	<5		A					
Pyrene	49.3	46.9	A		0.24	17.7 - 76.2		
2,4,5-Trichlorophenol	88.2	88.5	A		-0.02	38.5 - 138.6		
2,4,6-Trichlorophenol	<5		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative

Mixed Analyte Performance Evaluation Program

Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-07-OrW18
National Air and Radiation Environmental Laboratory (NARL01)
540 S. Morris Ave.
Montgomery, AL 36115-2601

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
delta-BHC	3.36	3.29	A		0.11	1.29 - 5.28		
beta-BHC	4.82	4.69	A		0.15	2.16 - 7.22		
gamma-BHC (Lindane)	5.71	5.59	A		0.12	2.54 - 8.64		
4,4'-DDT	4.11	5.30	A		-1.15	2.20 - 8.39		
Dieldrin	8.42	8.53	A		-0.08	4.53 - 12.52		
Heptachlor	1.20	3.32	N		-3.10	1.27 - 5.37		
1,2-Dichlorobenzene	NR	39.7				6.1 - 73.2		
1,3-Dichlorobenzene	NR	83.8				15.8 - 151.7		
Hexachlorobutadiene	NR	51.7				8.2 - 95.2		
Naphthalene	NR	103.3				37.1 - 169.6		
Acenaphthene	NR	29.3				15.1 - 43.4		
Anthracene	NR	33.5				16.9 - 50.2		
Benzo(a)anthracene	NR	47.4				24.7 - 70.1		
Benzo(a)pyrene	NR	85.2				32.5 - 138.0		
Benzo(b)fluoranthene	NR	90.2				40.3 - 140.0		
Benzo(g,h,i)perylene	NR	125.1				58.7 - 191.5		
2-Chloronaphthalene	NR	91.5				37.1 - 145.9		
2-Chlorophenol	NR	118.3				43.6 - 193.1		
Di-n-butylphthalate	NR	68.8				27.5 - 110.1		
2,4-Dichlorophenol	NR	60.5				24.0 - 97.1		
Diethylphthalate	NR	61.1				13.3 - 108.8		
2,4-Dimethylphenol	NR	57.0				14.7 - 99.2		
Dimethylphthalate	NR	102.1				15.4 - 221.2		
2,4-Dinitrotoluene	NR	45.0				19.2 - 70.8		
2,6-Dinitrotoluene	NR	139.5				70.3 - 208.7		
Di-n-octylphthalate	NR	54.4				16.8 - 92.0		
Bis(2-ethylhexyl)phthalate	NR	50.9				17.8 - 84.0		
Fluorene	NR	35.2				16.0 - 54.3		
Hexachlorobenzene	NR	48.8				24.7 - 73.0		
2-Methylnaphthalene	NR	57.1				15.7 - 98.5		
2-Methylphenol	NR	63.8				16.8 - 110.7		
Phenanthrene	NR	41.9				23.4 - 60.4		
Pyrene	NR	46.9				17.7 - 76.2		
2,4,5-Trichlorophenol	NR	88.5				38.5 - 138.6		

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative

Mixed Analyte Performance Evaluation Program

Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-07-OrW18
Assaigai Analytical Laboratories, Inc. (NMLA01)
4301 Masthead NE Ste. A
Albuquerque, NM 87109

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	< 0.2		A					
delta-BHC	2.8	3.29	A		-0.73	1.29 - 5.28		
alpha-BHC	< 0.2		A					
beta-BHC	4.2	4.69	A		-0.58	2.16 - 7.22		
gamma-BHC (Lindane)	4.7	5.59	A		-0.88	2.54 - 8.64		
4,4'-DDD	< 0.2		A					
4,4'-DDE	< 0.2		A					
4,4'-DDT	1.8	5.30	N		-3.39	2.20 - 8.39		
Dieldrin	NR	8.53				4.53 - 12.52		
Endosulfan I	< 0.2		A					
Endosulfan II	< 0.2		A					
Endosulfan sulfate	< 0.2		A					
Endrin Aldehyde	< 0.2		A					
Endrin	< 0.2		A					
Heptachlor	NR	3.32				1.27 - 5.37		
Heptachlor epoxide	< 0.2		A					
Methoxychlor	< 0.4		A					
1,2-Dichlorobenzene	41.0	39.7	A		0.12	6.1 - 73.2		
1,3-Dichlorobenzene	86.0	83.8	A		0.10	15.8 - 151.7		
1,4-Dichlorobenzene	< 2.0		A					
Hexachlorobutadiene	45.0	51.7	A		-0.46	8.2 - 95.2		
Hexachloroethane	< 2.0		A					
Naphthalene	110	103.3	A		0.30	37.1 - 169.6		
Nitrobenzene	< 10.0		A					
1,2,4-Trichlorobenzene	< 2.0		A					
Acenaphthene	30.0	29.3	A		0.16	15.1 - 43.4		
Acenaphthylene	< 2.0		A					
Anthracene	22.0	33.5	A		-2.08	16.9 - 50.2		
Benzo(a)anthracene	22.0	47.4	N		-3.36	24.7 - 70.1		
Benzo(a)pyrene	49.0	85.2	A		-2.06	32.5 - 138.0		
Benzo(b)fluoranthene	42.0	90.2	A		-2.90	40.3 - 140.0		
Benzo(g,h,i)perylene	130	125.1	A		0.22	58.7 - 191.5		
Benzo(k)fluoranthene	< 2.0		A					
4-Bromophenyl-phenylether	< 2.0		A					
Butylbenzylphthalate	< 2.0		A					
4-Chloro-3-methylphenol	< 10.0		A					

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
bis(2-chloroethoxy)methane	< 2.0		A					
bis(2-chloroethyl)ether	< 2.0		A					
bis(2-chloroisopropyl)ether	< 10.0		A					
2-Chloronaphthalene	100	91.5	A		0.47	37.1 - 145.9		
2-Chlorophenol	110	118.3	A		-0.33	43.6 - 193.1		
4-Chlorophenyl-phenylether	< 2.0		A					
Chrysene	< 2.0		A					
Dibenzo(a,h)anthracene	< 2.0		A					
Dibenzofuran	< 2.0		A					
Di-n-butylphthalate	76.0	68.8	A		0.52	27.5 - 110.1		
2,4-Dichlorophenol	56.0	60.5	A		-0.37	24.0 - 97.1		
Diethylphthalate	71.0	61.1	A		0.63	13.3 - 108.8		
2,4-Dimethylphenol	44.0	57.0	A		-0.92	14.7 - 99.2		
Dimethylphthalate	140	102.1	A		0.95	15.4 - 221.2		
2,4-Dinitrophenol	< 20.0		A					
2,4-Dinitrotoluene	46.0	45.0	A		0.12	19.2 - 70.8		
2,6-Dinitrotoluene	150	139.5	A		0.46	70.3 - 208.7		
Di-n-octylphthalate	48.0	54.4	A		-0.51	16.8 - 92.0		
Bis(2-ethylhexyl)phthalate	44.0	50.9	A		-0.63	17.8 - 84.0		
Fluoranthene	< 2.0		A					
Fluorene	36.0	35.2	A		0.13	16.0 - 54.3		
Hexachlorobenzene	< 20.0	48.8	N	(2)		24.7 - 73.0		
Hexachlorocyclopentadiene	< 20.0		A					
Indeno(1,2,3-c,d)pyrene	< 2.0		A					
Isophorone	< 2.0		A					
4,6-Dinitro-2-methylphenol	< 20.0		A					
2-Methylnaphthalene	65.0	57.1	A		0.57	15.7 - 98.5		
4-Nitrophenol	< 20.0		A					
2-Methylphenol	52.0	63.8	A		-0.75	16.8 - 110.7		
3-Methyl & 4-Methylphenol	< 10.0		A					
2-Nitrophenol	< 10.0		A					
Pentachlorophenol	< 80.0		A					
Phenanthrene	42.0	41.9	A		0.01	23.4 - 60.4		
Phenol	< 20.0		A					
Pyrene	22.0	46.9	A		-2.56	17.7 - 76.2		
2,4,5-Trichlorophenol	86.0	88.5	A		-0.15	38.5 - 138.6		
2,4,6-Trichlorophenol	< 10.0		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative

Mixed Analyte Performance Evaluation Program

Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-07-OrW18
Life Science Laboratories, Inc. (OBGL01)
5000 Brittonfield Pkwy, Ste. 200
East Syracuse, NY 13057

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
delta-BHC	NR	3.29				1.29 - 5.28		
beta-BHC	NR	4.69				2.16 - 7.22		
gamma-BHC (Lindane)	NR	5.59				2.54 - 8.64		
4,4'-DDT	NR	5.30				2.20 - 8.39		
Dieldrin	NR	8.53				4.53 - 12.52		
Heptachlor	NR	3.32				1.27 - 5.37		
1,2-Dichlorobenzene	44	39.7	A		0.39	6.1 - 73.2		
1,3-Dichlorobenzene	84	83.8	A		0.01	15.8 - 151.7		
1,4-Dichlorobenzene	<9.4		A					
Hexachlorobutadiene	50	51.7	A		-0.12	8.2 - 95.2		
Hexachloroethane	<9.4		A					
Naphthalene	97	103.3	A		-0.29	37.1 - 169.6		
Nitrobenzene	<9.4		A					
1,2,4-Trichlorobenzene	<9.4		A					
Acenaphthene	28	29.3	A		-0.27	15.1 - 43.4		
Acenaphthylene	<9.4		A					
Anthracene	32	33.5	A		-0.28	16.9 - 50.2		
Benzo(a)anthracene	45	47.4	A		-0.32	24.7 - 70.1		
Benzo(a)pyrene	86	85.2	A		0.04	32.5 - 138.0		
Benzo(b)fluoranthene	75	90.2	A		-0.91	40.3 - 140.0		
Benzo(g,h,i)perylene	110	125.1	A		-0.68	58.7 - 191.5		
Benzo(k)fluoranthene	<9.4		A					
4-Bromophenyl-phenylether	<9.4		A					
Butylbenzylphthalate	<9.4		A					
4-Chloro-3-methylphenol	<9.4		A					
bis(2-chloroethoxy)methane	<9.4		A					
bis(2-chloroethyl)ether	<9.4		A					
bis(2-chloroisopropyl)ether	<9.4		A					
2-Chloronaphthalene	84	91.5	A		-0.42	37.1 - 145.9		
2-Chlorophenol	110	118.3	A		-0.33	43.6 - 193.1		
4-Chlorophenyl-phenylether	<9.4		A					
Chrysene	<9.4		A					
Dibenzo(a,h)anthracene	<9.4		A					
Dibenzofuran	<9.4		A					
Di-n-butylphthalate	59	68.8	A		-0.71	27.5 - 110.1		
2,4-Dichlorophenol	55	60.5	A		-0.46	24.0 - 97.1		

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Diethylphthalate	57	61.1	A		-0.26	13.3 - 108.8		
2,4-Dimethylphenol	68	57.0	A		0.78	14.7 - 99.2		
Dimethylphthalate	110	102.1	A		0.20	15.4 - 221.2		
2,4-Dinitrophenol	<47		A					
2,4-Dinitrotoluene	45	45.0	A		0.01	19.2 - 70.8		
2,6-Dinitrotoluene	110	139.5	A		-1.28	70.3 - 208.7		
Di-n-octylphthalate	42	54.4	A		-0.99	16.8 - 92.0		
Bis(2-ethylhexyl)phthalate	44	50.9	A		-0.63	17.8 - 84.0		
Fluoranthene	<9.4		A					
Fluorene	35	35.2	A		-0.02	16.0 - 54.3		
Hexachlorobenzene	44	48.8	A		-0.60	24.7 - 73.0		
Hexachlorocyclopentadiene	<9.4		A					
Indeno(1,2,3-c,d)pyrene	<9.4		A					
Isophorone	<9.4		A					
4,6-Dinitro-2-methylphenol	<9.4		A					
2-Methylnaphthalene	52	57.1	A		-0.37	15.7 - 98.5		
4-Nitrophenol	<47		A					
2-Methylphenol	59	63.8	A		-0.30	16.8 - 110.7		
3-Methyl & 4-Methylphenol	<9.4		A					
2-Nitrophenol	<9.4		A					
Pentachlorophenol	<47		A					
Phenanthrene	38	41.9	A		-0.64	23.4 - 60.4		
Phenol	<9.4		A					
Pyrene	41	46.9	A		-0.61	17.7 - 76.2		
2,4,5-Trichlorophenol	70	88.5	A		-1.11	38.5 - 138.6		
2,4,6-Trichlorophenol	<9.4		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative

Mixed Analyte Performance Evaluation Program

Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-07-OrW18
STL St. Louis (QUAN01)
13715 Rider Trail North
Earth City, MO 63045-

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Aldrin	< 0.05		A					
delta-BHC	3.40	3.29	A		0.17	1.29 - 5.28		
alpha-BHC	< 0.05		A					
beta-BHC	4.25	4.69	A		-0.52	2.16 - 7.22		
gamma-BHC (Lindane)	5.60	5.59	A		0.01	2.54 - 8.64		
4,4'-DDD	0.241		A					
4,4'-DDE	< 0.05		A					
4,4'-DDT	5.72	5.30	A		0.41	2.20 - 8.39		
Dieldrin	8.36	8.53	A		-0.13	4.53 - 12.52		
Endosulfan I	< 0.05		A					
Endosulfan II	< 0.05		A					
Endosulfan sulfate	< 0.05		A					
Endrin Aldehyde	< 0.05		A					
Endrin	< 0.05		A					
Heptachlor	2.94	3.32	A		-0.55	1.27 - 5.37		
Heptachlor epoxide	< 0.50		A					
Methoxychlor	0.158		N	(1)				
1,2-Dichlorobenzene	30.8	39.7	A		-0.79	6.1 - 73.2		
1,3-Dichlorobenzene	66.4	83.8	A		-0.77	15.8 - 151.7		
1,4-Dichlorobenzene	< 20.0		A					
Hexachlorobutadiene	35.8	51.7	A		-1.10	8.2 - 95.2		
Hexachloroethane	< 20.0		A					
Naphthalene	78.6	103.3	A		-1.12	37.1 - 169.6		
Nitrobenzene	< 20.0		A					
1,2,4-Trichlorobenzene	< 20.0		A					
Acenaphthene	20.9	29.3	A		-1.77	15.1 - 43.4		
Acenaphthylene	< 20.0		A					
Anthracene	21.2	33.5	A		-2.23	16.9 - 50.2		
Benzo(a)anthracene	25.7	47.4	A		-2.87	24.7 - 70.1		
Benzo(a)pyrene	48.1	85.2	A		-2.11	32.5 - 138.0		
Benzo(b)fluoranthene	46.2	90.2	A		-2.65	40.3 - 140.0		
Benzo(g,h,i)perylene	63.9	125.1	A		-2.77	58.7 - 191.5		
Benzo(k)fluoranthene	< 20.0		A					
Butylbenzylphthalate	< 20.0		A					
4-Chloro-3-methylphenol	< 20.0		A					
2-Chloronaphthalene	67.4	91.5	A		-1.33	37.1 - 145.9		

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
2-Chlorophenol	94.2	118.3	A		-0.97	43.6 - 193.1		
Chrysene	< 20.0		A					
Dibenzo(a,h)anthracene	< 20.0		A					
Dibenzofuran	< 20.0		A					
Di-n-butylphthalate	52.2	68.8	A		-1.21	27.5 - 110.1		
2,4-Dichlorophenol	45.1	60.5	A		-1.27	24.0 - 97.1		
2,6-Dichlorophenol	< 20.0		A					
Diethylphthalate	53.3	61.1	A		-0.49	13.3 - 108.8		
2,4-Dimethylphenol	46.3	57.0	A		-0.76	14.7 - 99.2		
Dimethylphthalate	105	102.1	A		0.07	15.4 - 221.2		
2,4-Dinitrophenol	< 100		A					
2,4-Dinitrotoluene	34.7	45.0	A		-1.19	19.2 - 70.8		
2,6-Dinitrotoluene	112	139.5	A		-1.19	70.3 - 208.7		
Di-n-octylphthalate	24.2	54.4	A		-2.41	16.8 - 92.0		
Bis(2-ethylhexyl)phthalate	28.9	50.9	A		-2.00	17.8 - 84.0		
Fluoranthene	< 20.0		A					
Fluorene	25.9	35.2	A		-1.45	16.0 - 54.3		
Hexachlorobenzene	24.4	48.8	N		-3.04	24.7 - 73.0		
Hexachlorocyclopentadiene	< 100		A					
Indeno(1,2,3-c,d)pyrene	< 20.0		A					
Isophorone	< 20.0		A					
4,6-Dinitro-2-methylphenol	< 100		A					
2-Methylnaphthalene	43.9	57.1	A		-0.96	15.7 - 98.5		
4-Nitrophenol	< 100		A					
2-Methylphenol	53.4	63.8	A		-0.66	16.8 - 110.7		
3-Methyl & 4-Methylphenol	< 40.0		A					
2-Nitrophenol	< 20.0		A					
Pentachlorophenol	< 100		A					
Phenanthrene	28.1	41.9	A		-2.25	23.4 - 60.4		
Phenol	< 20.0		A					
Pyrene	27.3	46.9	A		-2.01	17.7 - 76.2		
2,4,5-Trichlorophenol	62.3	88.5	A		-1.57	38.5 - 138.6		
2,4,6-Trichlorophenol	< 20.0		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative

Mixed Analyte Performance Evaluation Program

Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-07-OrW18
TestAmerica Knoxville (QUAN02)
5815 Middlebrook Pike
Knoxville, TN 37921-

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
delta-BHC	NR	3.29				1.29 - 5.28		
beta-BHC	NR	4.69				2.16 - 7.22		
gamma-BHC (Lindane)	NR	5.59				2.54 - 8.64		
4,4'-DDT	NR	5.30				2.20 - 8.39		
Dieldrin	NR	8.53				4.53 - 12.52		
Heptachlor	NR	3.32				1.27 - 5.37		
1,2-Dichlorobenzene	47.4	39.7	A		0.69	6.1 - 73.2		
1,3-Dichlorobenzene	101	83.8	A		0.76	15.8 - 151.7		
1,4-Dichlorobenzene	<10.0		A					
Hexachlorobutadiene	57.2	51.7	A		0.38	8.2 - 95.2		
Hexachloroethane	<10.0		A					
Naphthalene	123	103.3	A		0.89	37.1 - 169.6		
Nitrobenzene	<10.0		A					
1,2,4-Trichlorobenzene	<10.0		A					
Acenaphthene	30.9	29.3	A		0.35	15.1 - 43.4		
Acenaphthylene	<10.0		A					
Anthracene	34.7	33.5	A		0.21	16.9 - 50.2		
Benzo(a)anthracene	51.4	47.4	A		0.53	24.7 - 70.1		
Benzo(a)pyrene	95.6	85.2	A		0.59	32.5 - 138.0		
Benzo(b)fluoranthene	88.3	90.2	A		-0.11	40.3 - 140.0		
Benzo(g,h,i)perylene	123	125.1	A		-0.10	58.7 - 191.5		
Benzo(k)fluoranthene	<10.0		A					
Butylbenzylphthalate	<10.0		A					
4-Chloro-3-methylphenol	<10.0		A					
2-Chloronaphthalene	97.1	91.5	A		0.31	37.1 - 145.9		
2-Chlorophenol	120	118.3	A		0.07	43.6 - 193.1		
Chrysene	<10.0		A					
Dibenzo(a,h)anthracene	<10.0		A					
Dibenzofuran	<10.0		A					
Di-n-butylphthalate	73.5	68.8	A		0.34	27.5 - 110.1		
2,4-Dichlorophenol	64.8	60.5	A		0.35	24.0 - 97.1		
Diethylphthalate	69.4	61.1	A		0.52	13.3 - 108.8		
2,4-Dimethylphenol	46.0	57.0	A		-0.78	14.7 - 99.2		
Dimethylphthalate	132	102.1	A		0.75	15.4 - 221.2		
2,4-Dinitrophenol	<50.0		A					
2,4-Dinitrotoluene	44.7	45.0	A		-0.03	19.2 - 70.8		

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
2,6-Dinitrotoluene	144	139.5	A		0.20	70.3 - 208.7		
Di-n-octylphthalate	48.4	54.4	A		-0.48	16.8 - 92.0		
Bis(2-ethylhexyl)phthalate	49.4	50.9	A		-0.14	17.8 - 84.0		
Fluoranthene	<10.0		A					
Fluorene	40.0	35.2	A		0.76	16.0 - 54.3		
Hexachlorobenzene	45.2	48.8	A		-0.45	24.7 - 73.0		
Hexachlorocyclopentadiene	<50.0		A					
Indeno(1,2,3-c,d)pyrene	<10.0		A					
Isophorone	<10.0		A					
4,6-Dinitro-2-methylphenol	<50.0		A					
2-Methylnaphthalene	71.3	57.1	A		1.03	15.7 - 98.5		
2-Methylphenol	70.4	63.8	A		0.42	16.8 - 110.7		
4-Nitrophenol	<50.0		A					
3-Methyl & 4-Methylphenol	<10.0		A					
2-Nitrophenol	<10.0		A					
Pentachlorophenol	<50.0		A					
Phenanthrene	41.9	41.9	A		-0.01	23.4 - 60.4		
Phenol	0.995		A					
Pyrene	47.1	46.9	A		0.02	17.7 - 76.2		
2,4,5-Trichlorophenol	84.6	88.5	A		-0.24	38.5 - 138.6		
2,4,6-Trichlorophenol	<10.0		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative

Mixed Analyte Performance Evaluation Program

Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-07-OrW18
TestAmerica-Morgan Hill (SALC01)
885 Jarvis Drive
Morgan Hill, CA 95037

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
delta-BHC	NR	3.29				1.29 - 5.28		
beta-BHC	NR	4.69				2.16 - 7.22		
gamma-BHC (Lindane)	NR	5.59				2.54 - 8.64		
4,4'-DDT	NR	5.30				2.20 - 8.39		
Dieldrin	NR	8.53				4.53 - 12.52		
Heptachlor	NR	3.32				1.27 - 5.37		
1,2-Dichlorobenzene	40.0	39.7	A		0.03	6.1 - 73.2		
1,3-Dichlorobenzene	78.3	83.8	A		-0.24	15.8 - 151.7		
1,4-Dichlorobenzene	<10		A					
Hexachlorobutadiene	48.9	51.7	A		-0.19	8.2 - 95.2		
Hexachloroethane	<10		A					
Naphthalene	88.8	103.3	A		-0.66	37.1 - 169.6		
Nitrobenzene	<5		A					
1,2,4-Trichlorobenzene	<10		A					
Acenaphthene	26.9	29.3	A		-0.50	15.1 - 43.4		
Acenaphthylene	<5		A					
Anthracene	30.6	33.5	A		-0.53	16.9 - 50.2		
Benzo(a)anthracene	39.2	47.4	A		-1.09	24.7 - 70.1		
Benzo(a)pyrene	86.1	85.2	A		0.05	32.5 - 138.0		
Benzo(b)fluoranthene	76.3	90.2	A		-0.84	40.3 - 140.0		
Benzo(g,h,i)perylene	112	125.1	A		-0.59	58.7 - 191.5		
Benzo(k)fluoranthene	<5		A					
4-Bromophenyl-phenylether	<5		A					
Butylbenzylphthalate	<5		A					
4-Chloro-3-methylphenol	<5		A					
bis(2-chloroethoxy)methane	<5		A					
bis(2-chloroethyl)ether	<5		A					
bis(2-chloroisopropyl)ether	<5		A					
2-Chloronaphthalene	79.2	91.5	A		-0.68	37.1 - 145.9		
2-Chlorophenol	102	118.3	A		-0.66	43.6 - 193.1		
4-Chlorophenyl-phenylether	<10		A					
Chrysene	<5		A					
Dibenzo(a,h)anthracene	<5		A					
Dibenzofuran	<5		A					
Di-n-butylphthalate	61.9	68.8	A		-0.50	27.5 - 110.1		
2,4-Dichlorophenol	56.5	60.5	A		-0.33	24.0 - 97.1		

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Diethylphthalate	57.1	61.1	A		-0.25	13.3 - 108.8		
2,4-Dimethylphenol	52.7	57.0	A		-0.30	14.7 - 99.2		
Dimethylphthalate	103	102.1	A		0.02	15.4 - 221.2		
2,4-Dinitrophenol	<10		A					
2,4-Dinitrotoluene	40.2	45.0	A		-0.55	19.2 - 70.8		
2,6-Dinitrotoluene	123	139.5	A		-0.71	70.3 - 208.7		
Di-n-octylphthalate	49.4	54.4	A		-0.40	16.8 - 92.0		
Bis(2-ethylhexyl)phthalate	44.2	50.9	A		-0.61	17.8 - 84.0		
Fluoranthene	<5		A					
Fluorene	32.9	35.2	A		-0.35	16.0 - 54.3		
Hexachlorobenzene	43.6	48.8	A		-0.65	24.7 - 73.0		
Hexachlorocyclopentadiene	<10		A					
Indeno(1,2,3-c,d)pyrene	<10		A					
Isophorone	<5		A					
4,6-Dinitro-2-methylphenol	<5		A					
2-Methylnaphthalene	57.3	57.1	A		0.01	15.7 - 98.5		
4-Nitrophenol	<10		A					
2-Methylphenol	57.1	63.8	A		-0.43	16.8 - 110.7		
3-Methyl & 4-Methylphenol	<5		A					
2-Nitrophenol	<5		A					
Pentachlorophenol	<10		A					
Phenanthrene	37.6	41.9	A		-0.70	23.4 - 60.4		
Phenol	<5		A					
Pyrene	37.6	46.9	A		-0.96	17.7 - 76.2		
2,4,5-Trichlorophenol	77.9	88.5	A		-0.64	38.5 - 138.6		
2,4,6-Trichlorophenol	<5		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative

Mixed Analyte Performance Evaluation Program

Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-07-OrW18
Southwest Research Institute (SOUT01)
6220 Culebra Rd.
San Antonio, TX 78228-0510

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
delta-BHC	NR	3.29				1.29 - 5.28		
beta-BHC	NR	4.69				2.16 - 7.22		
gamma-BHC (Lindane)	NR	5.59				2.54 - 8.64		
4,4'-DDT	NR	5.30				2.20 - 8.39		
Dieldrin	NR	8.53				4.53 - 12.52		
Heptachlor	NR	3.32				1.27 - 5.37		
1,2-Dichlorobenzene	40.3	39.7	A		0.06	6.1 - 73.2		
1,3-Dichlorobenzene	77.9	83.8	A		-0.26	15.8 - 151.7		
1,4-Dichlorobenzene	<5.00		A					
Hexachlorobutadiene	46.2	51.7	A		-0.38	8.2 - 95.2		
Hexachloroethane	<5.00		A					
Naphthalene	102	103.3	A		-0.06	37.1 - 169.6		
Nitrobenzene	<5.00		A					
1,2,4-Trichlorobenzene	<5.00		A					
Acenaphthene	27.1	29.3	A		-0.46	15.1 - 43.4		
Acenaphthylene	<5.00		A					
Anthracene	29.9	33.5	A		-0.66	16.9 - 50.2		
Benzo(a)anthracene	41.4	47.4	A		-0.80	24.7 - 70.1		
Benzo(a)pyrene	80.6	85.2	A		-0.26	32.5 - 138.0		
Benzo(b)fluoranthene	73.2	90.2	A		-1.02	40.3 - 140.0		
Benzo(g,h,i)perylene	113	125.1	A		-0.55	58.7 - 191.5		
Benzo(k)fluoranthene	<5.00		A					
4-Bromophenyl-phenylether	<5.00		A					
Butylbenzylphthalate	<5.00		A					
4-Chloro-3-methylphenol	<5.00		A					
bis(2-chloroethoxy)methane	<5.00		A					
bis(2-chloroethyl)ether	<5.00		A					
bis(2-chloroisopropyl)ether	<5.00		A					
2-Chloronaphthalene	71.3	91.5	A		-1.12	37.1 - 145.9		
2-Chlorophenol	116	118.3	A		-0.09	43.6 - 193.1		
4-Chlorophenyl-phenylether	<5.00		A					
Chrysene	<5.00		A					
Dibenzo(a,h)anthracene	<5.00		A					
Dibenzofuran	<5.00		A					
Di-n-butylphthalate	63.4	68.8	A		-0.39	27.5 - 110.1		
2,4-Dichlorophenol	61.6	60.5	A		0.09	24.0 - 97.1		

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
Diethylphthalate	59.3	61.1	A		-0.11	13.3 - 108.8		
2,4-Dimethylphenol	49.9	57.0	A		-0.50	14.7 - 99.2		
Dimethylphthalate	120	102.1	A		0.45	15.4 - 221.2		
2,4-Dinitrophenol	<5.00		A					
2,4-Dinitrotoluene	43.2	45.0	A		-0.21	19.2 - 70.8		
2,6-Dinitrotoluene	124	139.5	A		-0.67	70.3 - 208.7		
Di-n-octylphthalate	49.6	54.4	A		-0.38	16.8 - 92.0		
Bis(2-ethylhexyl)phthalate	71.5	50.9	A		1.87	17.8 - 84.0		
Fluoranthene	<5.00		A					
Fluorene	32.3	35.2	A		-0.45	16.0 - 54.3		
Hexachlorobenzene	41.8	48.8	A		-0.87	24.7 - 73.0		
Hexachlorocyclopentadiene	<5.00		A					
Indeno(1,2,3-c,d)pyrene	<5.00		A					
Isophorone	<5.00		A					
4,6-Dinitro-2-methylphenol	<5.00		A					
2-Methylnaphthalene	63.1	57.1	A		0.43	15.7 - 98.5		
4-Nitrophenol	<5.00		A					
2-Methylphenol	62.7	63.8	A		-0.07	16.8 - 110.7		
3-Methyl & 4-Methylphenol	<5.00		A					
2-Nitrophenol	<5.00		A					
Pentachlorophenol	<5.00		A					
Phenanthrene	36.5	41.9	A		-0.88	23.4 - 60.4		
Phenol	<5.00		A					
Pyrene	39.8	46.9	A		-0.73	17.7 - 76.2		
2,4,5-Trichlorophenol	86.6	88.5	A		-0.12	38.5 - 138.6		
2,4,6-Trichlorophenol	<5.00		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative

Mixed Analyte Performance Evaluation Program

Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-07-OrW18
Lionville Laboratory Incorporated (WEST01)
208 Welsh Pool Road
Exton, PA 19341-1313

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
delta-BHC	NR	3.29				1.29 - 5.28		
beta-BHC	NR	4.69				2.16 - 7.22		
gamma-BHC (Lindane)	NR	5.59				2.54 - 8.64		
4,4'-DDT	NR	5.30				2.20 - 8.39		
Dieldrin	NR	8.53				4.53 - 12.52		
Heptachlor	NR	3.32				1.27 - 5.37		
1,2-Dichlorobenzene	47	39.7	A		0.66	6.1 - 73.2		
1,3-Dichlorobenzene	85	83.8	A		0.06	15.8 - 151.7		
1,4-Dichlorobenzene	<10		A					
Hexachlorobutadiene	66	51.7	A		0.99	8.2 - 95.2		
Hexachloroethane	<10		A					
Naphthalene	99	103.3	A		-0.20	37.1 - 169.6		
Nitrobenzene	<10		A					
1,2,4-Trichlorobenzene	<10		A					
Acenaphthene	29	29.3	A		-0.06	15.1 - 43.4		
Acenaphthylene	<10		A					
Anthracene	29	33.5	A		-0.82	16.9 - 50.2		
Benzo(a)anthracene	36	47.4	A		-1.51	24.7 - 70.1		
Benzo(a)pyrene	57	85.2	A		-1.61	32.5 - 138.0		
Benzo(b)fluoranthene	61	90.2	A		-1.76	40.3 - 140.0		
Benzo(g,h,i)perylene	110	125.1	A		-0.68	58.7 - 191.5		
Benzo(k)fluoranthene	<10		A					
4-Bromophenyl-phenylether	<10		A					
Butylbenzylphthalate	<10		A					
4-Chloro-3-methylphenol	<10		A					
bis(2-chloroethoxy)methane	<10		A					
bis(2-chloroethyl)ether	<10		A					
bis(2-chloroisopropyl)ether	<10		A					
2-Chloronaphthalene	89	91.5	A		-0.14	37.1 - 145.9		
2-Chlorophenol	110	118.3	A		-0.33	43.6 - 193.1		
4-Chlorophenyl-phenylether	<10		A					
Chrysene	<10		A					
Dibenzo(a,h)anthracene	<10		A					
Dibenzofuran	<10		A					
Di-n-butylphthalate	79	68.8	A		0.74	27.5 - 110.1		
2,4-Dichlorophenol	71	60.5	A		0.86	24.0 - 97.1		

Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
2,6-Dichlorophenol	<10		A					
Diethylphthalate	74	61.1	A		0.81	13.3 - 108.8		
2,4-Dimethylphenol	63	57.0	A		0.43	14.7 - 99.2		
Dimethylphthalate	130	102.1	A		0.70	15.4 - 221.2		
2,4-Dinitrophenol	<50		A					
2,4-Dinitrotoluene	47	45.0	A		0.24	19.2 - 70.8		
2,6-Dinitrotoluene	130	139.5	A		-0.41	70.3 - 208.7		
Di-n-octylphthalate	63	54.4	A		0.69	16.8 - 92.0		
Bis(2-ethylhexyl)phthalate	54	50.9	A		0.28	17.8 - 84.0		
Fluoranthene	<10		A					
Fluorene	33	35.2	A		-0.34	16.0 - 54.3		
Hexachlorobenzene	25	48.8	A		-2.96	24.7 - 73.0		
Hexachlorocyclopentadiene	<10		A					
Indeno(1,2,3-c,d)pyrene	<10		A					
Isophorone	<10		A					
4,6-Dinitro-2-methylphenol	<25		A					
2-Methylnaphthalene	79	57.1	A		1.59	15.7 - 98.5		
4-Nitrophenol	<25		A					
2-Methylphenol	69	63.8	A		0.34	16.8 - 110.7		
3-Methyl & 4-Methylphenol	<10		A					
2-Nitrophenol	<10		A					
Pentachlorophenol	<25		A					
Phenanthrene	39	41.9	A		-0.48	23.4 - 60.4		
Phenol	<10		A					
Pyrene	28	46.9	A		-1.94	17.7 - 76.2		
2,4,5-Trichlorophenol	41	88.5	A		-2.85	38.5 - 138.6		
2,4,6-Trichlorophenol	<10		A					

NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

Notes:

(1) = False Positive
(2) = False Negative

Mixed Analyte Performance Evaluation Program

Department of Energy RESL - 1955 Fremont Ave, MS4149 - Idaho Falls, ID 83415

Laboratory Results For MAPEP-07-OrW18
Waste Sampling and Characterization Facility (WEST03)
PO Box 1000, S3-30
Richland, WA 99352

Organic — Units: (ug/L)

Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
delta-BHC	NR	3.29				1.29 - 5.28		
beta-BHC	NR	4.69				2.16 - 7.22		
gamma-BHC (Lindane)	NR	5.59				2.54 - 8.64		
4,4'-DDT	NR	5.30				2.20 - 8.39		
Dieldrin	NR	8.53				4.53 - 12.52		
Heptachlor	NR	3.32				1.27 - 5.37		
1,2-Dichlorobenzene	51.2	39.7	A		1.03	6.1 - 73.2		
1,3-Dichlorobenzene	115	83.8	A		1.38	15.8 - 151.7		
1,4-Dichlorobenzene	<1.4		A					
Hexachlorobutadiene	59.3	51.7	A		0.52	8.2 - 95.2		
Hexachloroethane	<1.4		A					
Naphthalene	133	103.3	A		1.34	37.1 - 169.6		
Nitrobenzene	<0.6		A					
1,2,4-Trichlorobenzene	<2.2		A					
Acenaphthene	31.4	29.3	A		0.45	15.1 - 43.4		
Acenaphthylene	<2.3		A					
Anthracene	35.6	33.5	A		0.37	16.9 - 50.2		
Benzo(a)anthracene	49.1	47.4	A		0.22	24.7 - 70.1		
Benzo(a)pyrene	109	85.2	A		1.35	32.5 - 138.0		
Benzo(b)fluoranthene	109	90.2	A		1.13	40.3 - 140.0		
Benzo(g,h,i)perylene	158	125.1	A		1.49	58.7 - 191.5		
Benzo(k)fluoranthene	<0.5		A					
4-Bromophenyl-phenylether	<1		A					
Butylbenzylphthalate	<0.6		A					
4-Chloro-3-methylphenol	<0.5		A					
bis(2-chloroethoxy)methane	<1		A					
bis(2-chloroethyl)ether	<1		A					
bis(2-chloroisopropyl)ether	<1		A					
2-Chloronaphthalene	113	91.5	A		1.18	37.1 - 145.9		
2-Chlorophenol	144	118.3	A		1.03	43.6 - 193.1		
4-Chlorophenyl-phenylether	<1.7		A					
Chrysene	<0.5		A					
Dibenzo(a,h)anthracene	<0.5		A					
Dibenzofuran	<2.2		A					
Di-n-butylphthalate	84.6	68.8	A		1.15	27.5 - 110.1		
2,4-Dichlorophenol	67.0	60.5	A		0.53	24.0 - 97.1		

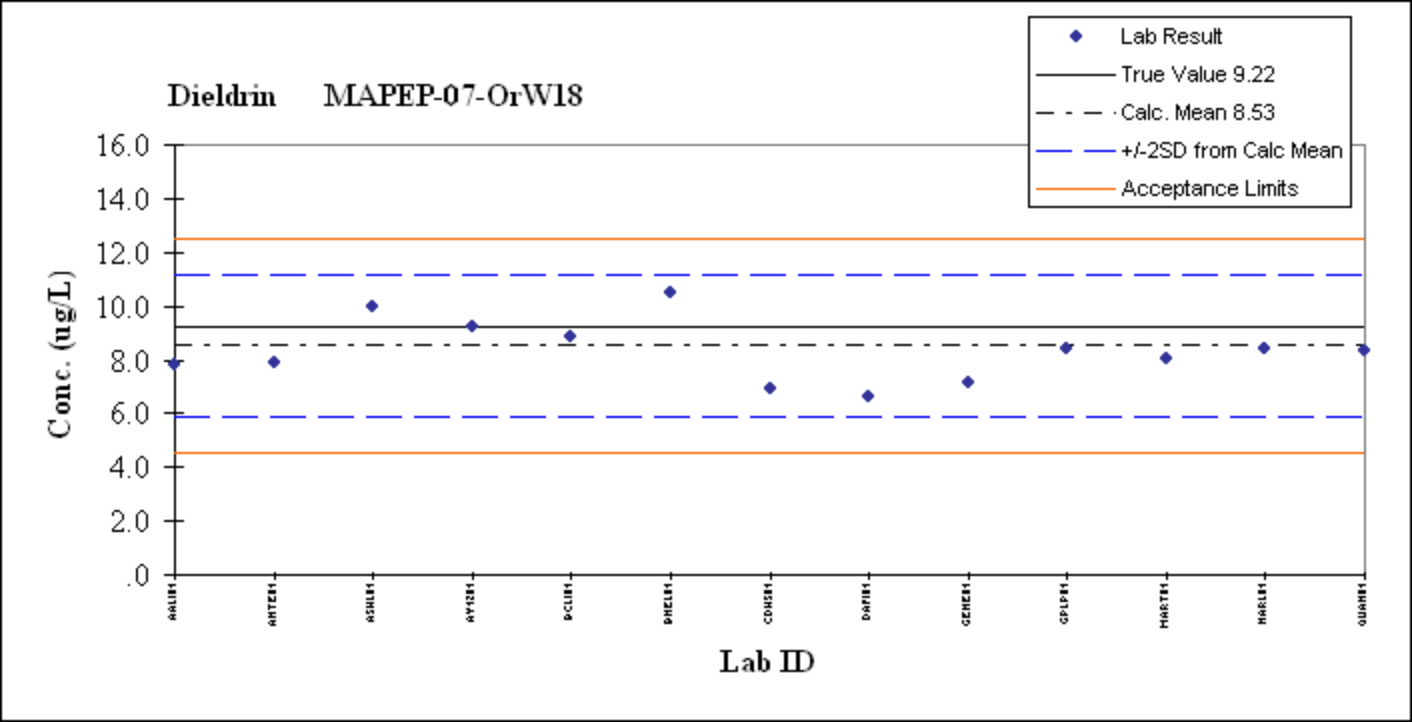
Organic								Units: (ug/L)
Analyte	Result	Ref Value	Flag	Notes	Z-	Acceptance Range	Unc Value	Unc Flag
2,6-Dichlorophenol	<0.6		A					
Diethylphthalate	75.4	61.1	A		0.90	13.3 - 108.8		
2,4-Dimethylphenol	64.3	57.0	A		0.52	14.7 - 99.2		
Dimethylphthalate	149	102.1	A		1.18	15.4 - 221.2		
2,4-Dinitrophenol	<2		A					
2,4-Dinitrotoluene	47.1	45.0	A		0.25	19.2 - 70.8		
2,6-Dinitrotoluene	153	139.5	A		0.59	70.3 - 208.7		
Di-n-octylphthalate	57.3	54.4	A		0.23	16.8 - 92.0		
Bis(2-ethylhexyl)phthalate	50.8	50.9	A		-0.01	17.8 - 84.0		
Fluoranthene	<0.5		A					
Fluorene	37.7	35.2	A		0.40	16.0 - 54.3		
Hexachlorobenzene	54.3	48.8	A		0.68	24.7 - 73.0		
Hexachlorocyclopentadiene	<5.0		A					
Indeno(1,2,3-c,d)pyrene	<0.5		A					
Isophorone	<0.5		A					
4,6-Dinitro-2-methylphenol	<1.0		A					
2-Methylnaphthalene	76.0	57.1	A		1.37	15.7 - 98.5		
2-Methylphenol	80.9	63.8	A		1.10	16.8 - 110.7		
4-Nitrophenol	<1.0		A					
3-Methyl & 4-Methylphenol	<0.5		A					
2-Nitrophenol	<0.5		A					
Pentachlorophenol	<1.5		A					
Phenanthrene	43.4	41.9	A		0.24	23.4 - 60.4		
Phenol	<0.5		A					
Pyrene	50.1	46.9	A		0.32	17.7 - 76.2		
2,4,5-Trichlorophenol	101	88.5	A		0.75	38.5 - 138.6		
2,4,6-Trichlorophenol	<0.5		A					

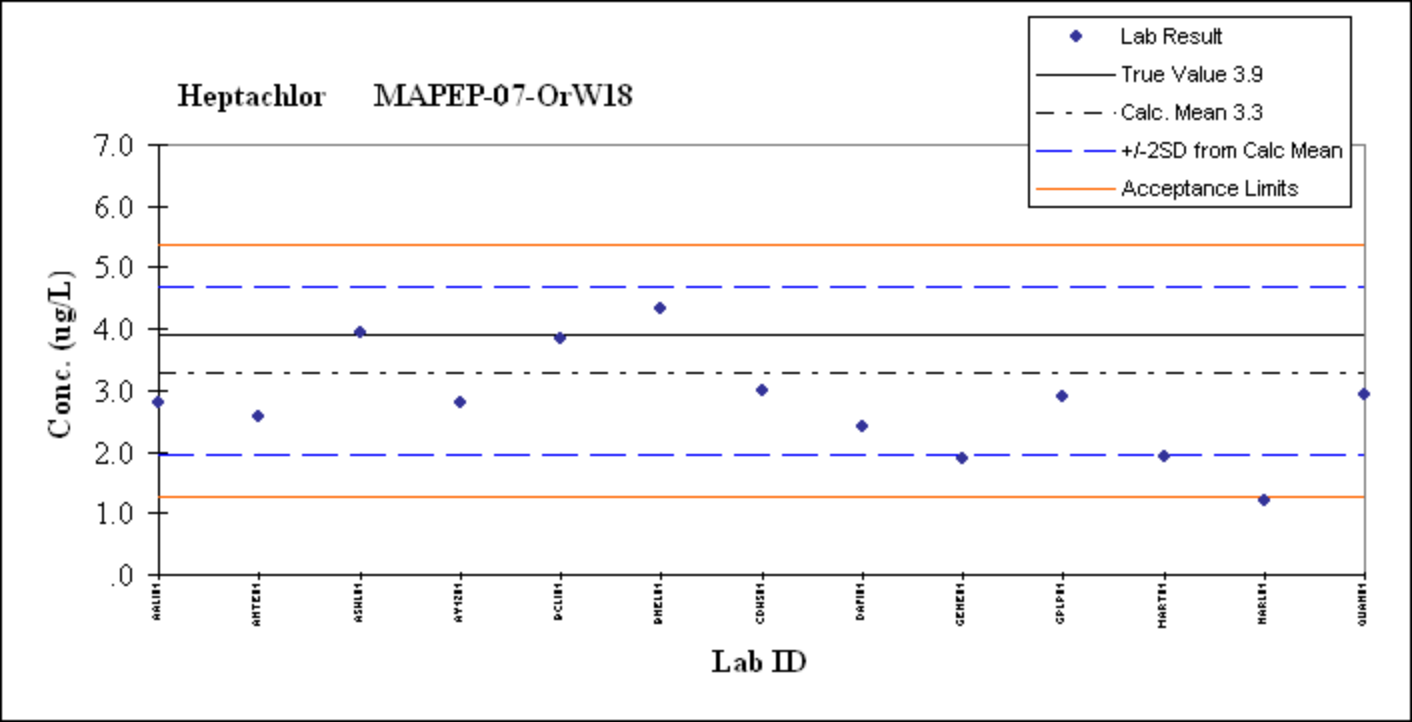
NOTE: The spiking solution used to create the MAPEP OrW Standard was prepared by a subcontractor and validated by RESL Chemists.

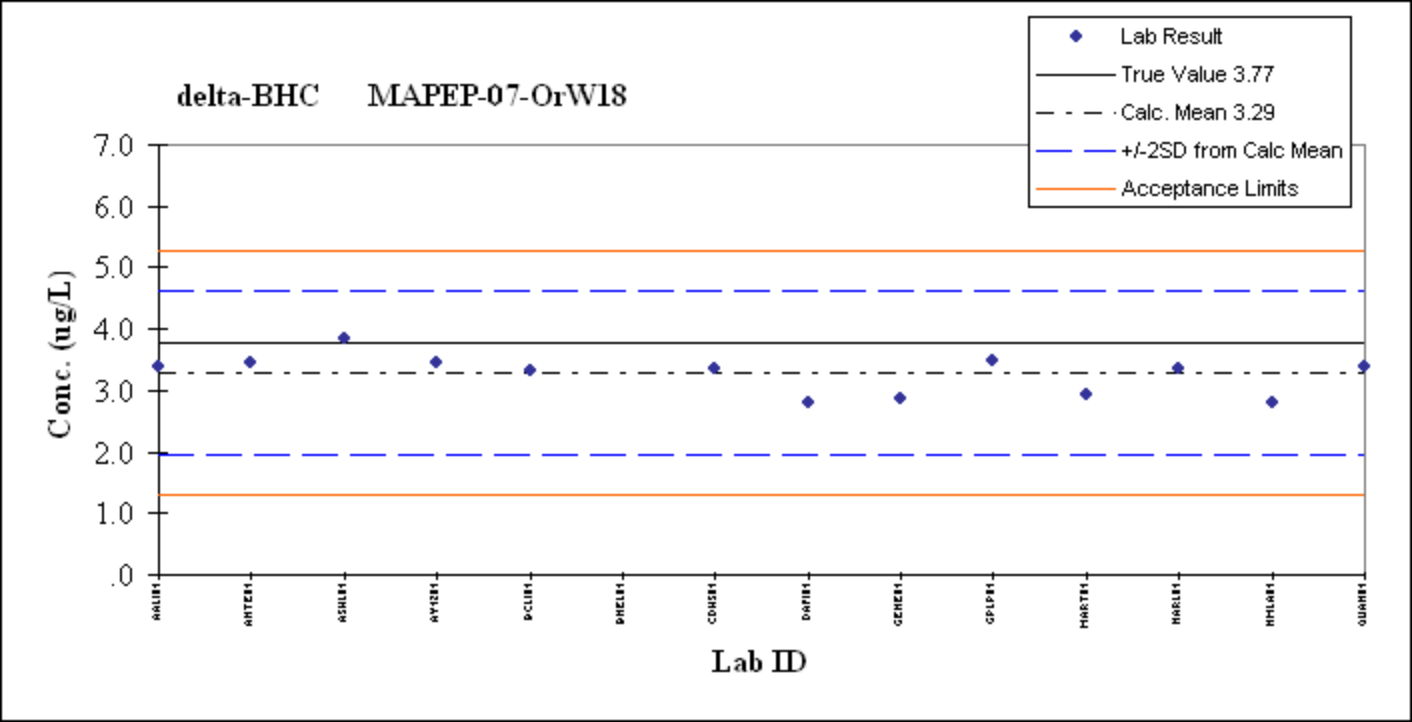
A = Result acceptable Z-score <=3.0
N = Result not acceptable Z-score > 3.0
NR = Not Reported

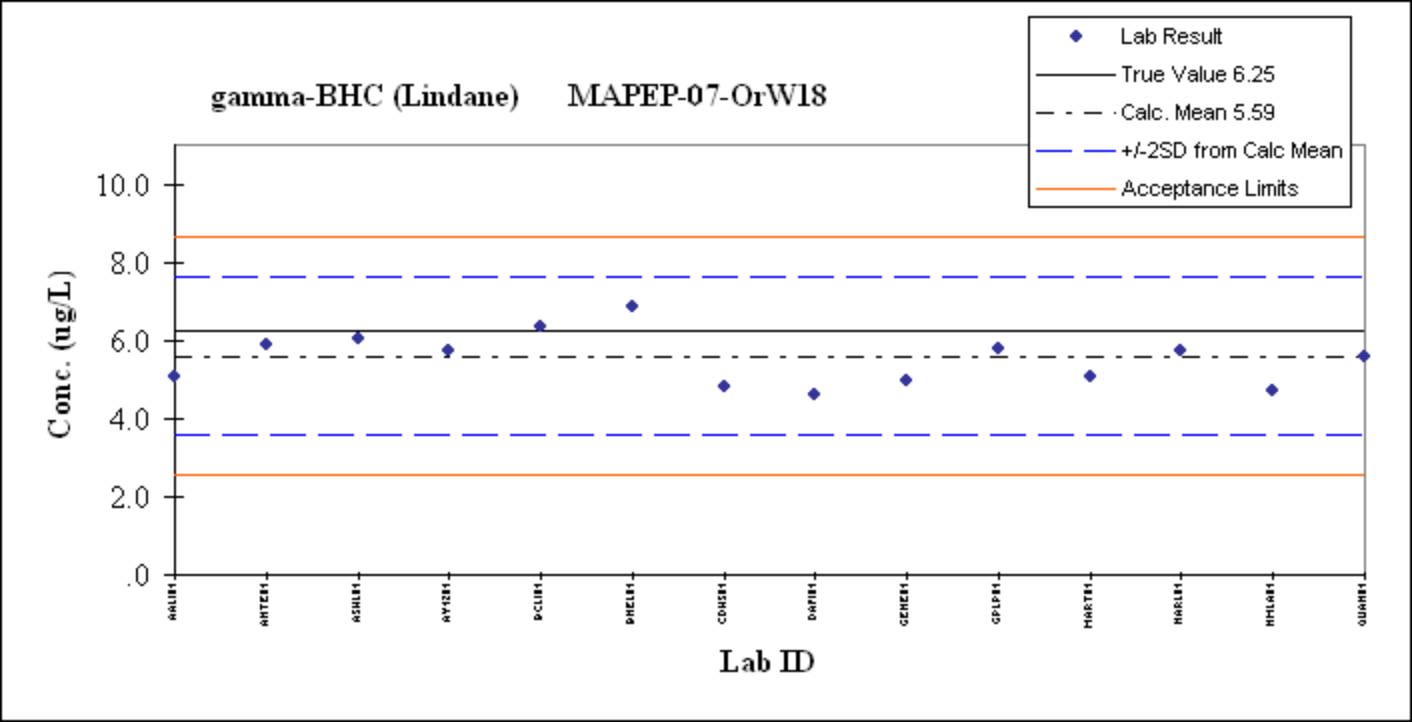
Notes:

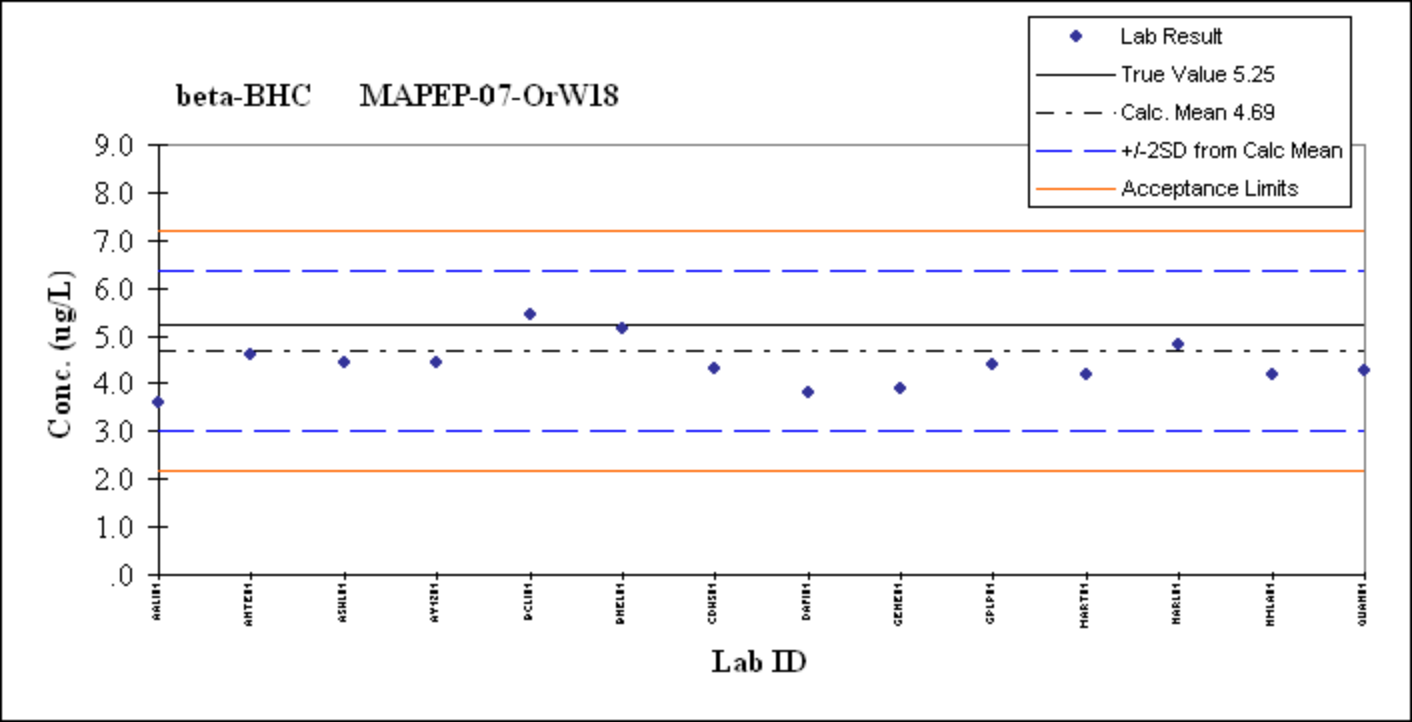
(1) = False Positive
(2) = False Negative

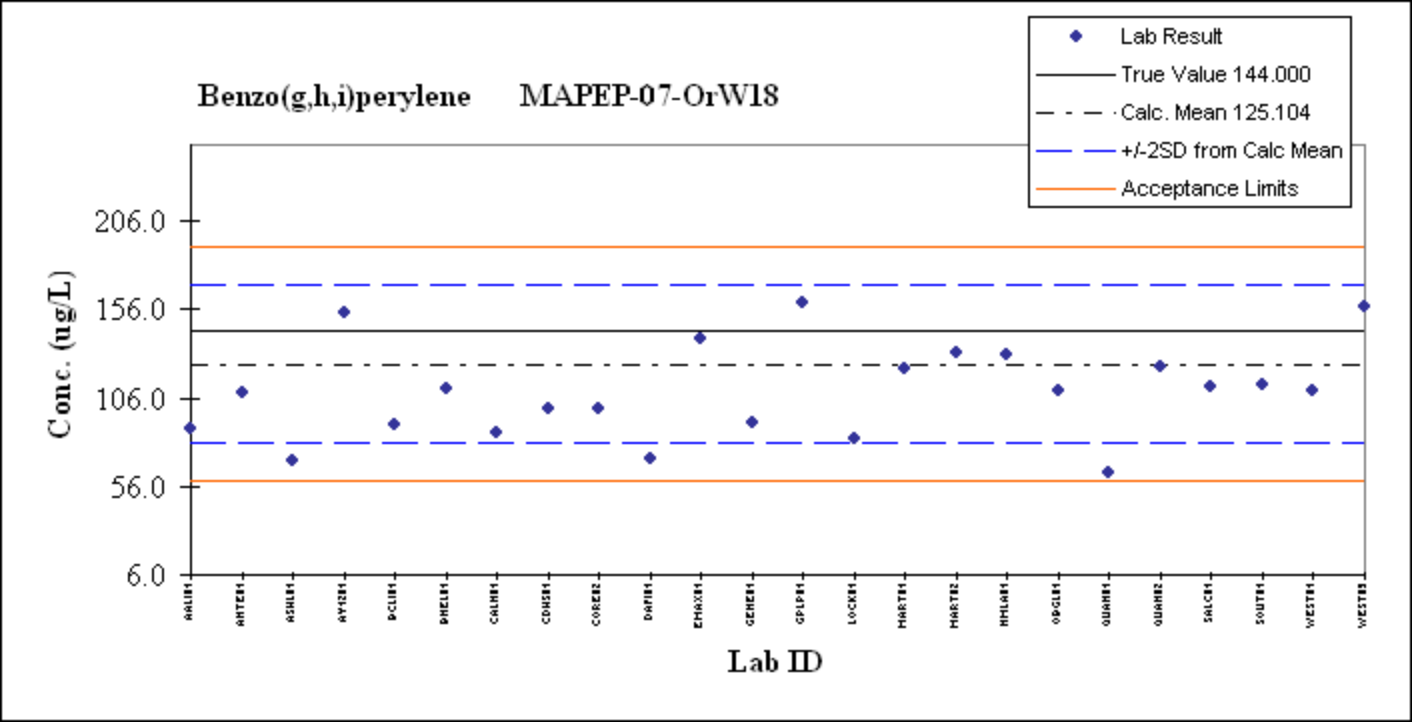

Dieldrin MAPEP-07-OrW18
Lab Result
True Value 9.22
Calc. Mean 8.53
+/-2SD from Calc Mean
Acceptance Limits
16.0
14.0
12.0
10.0
8.0
6.0
4.0
2.0
.0
Conc. (ug/L)
Lab ID

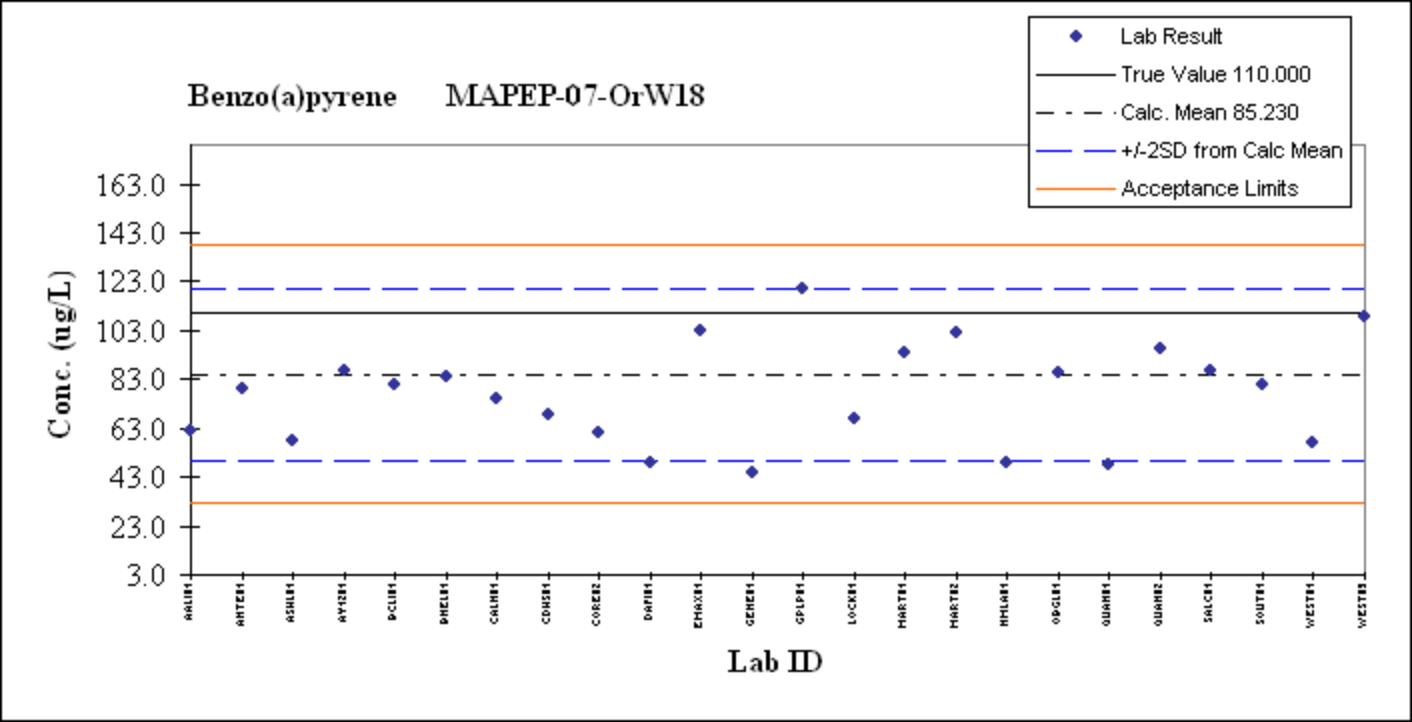

Heptachlor MAPEP-07-OrW18
Lab Result
True Value 3.9
Calc. Mean 3.3
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
7.0
6.0
5.0
4.0
3.0
2.0
1.0
.0
Lab ID

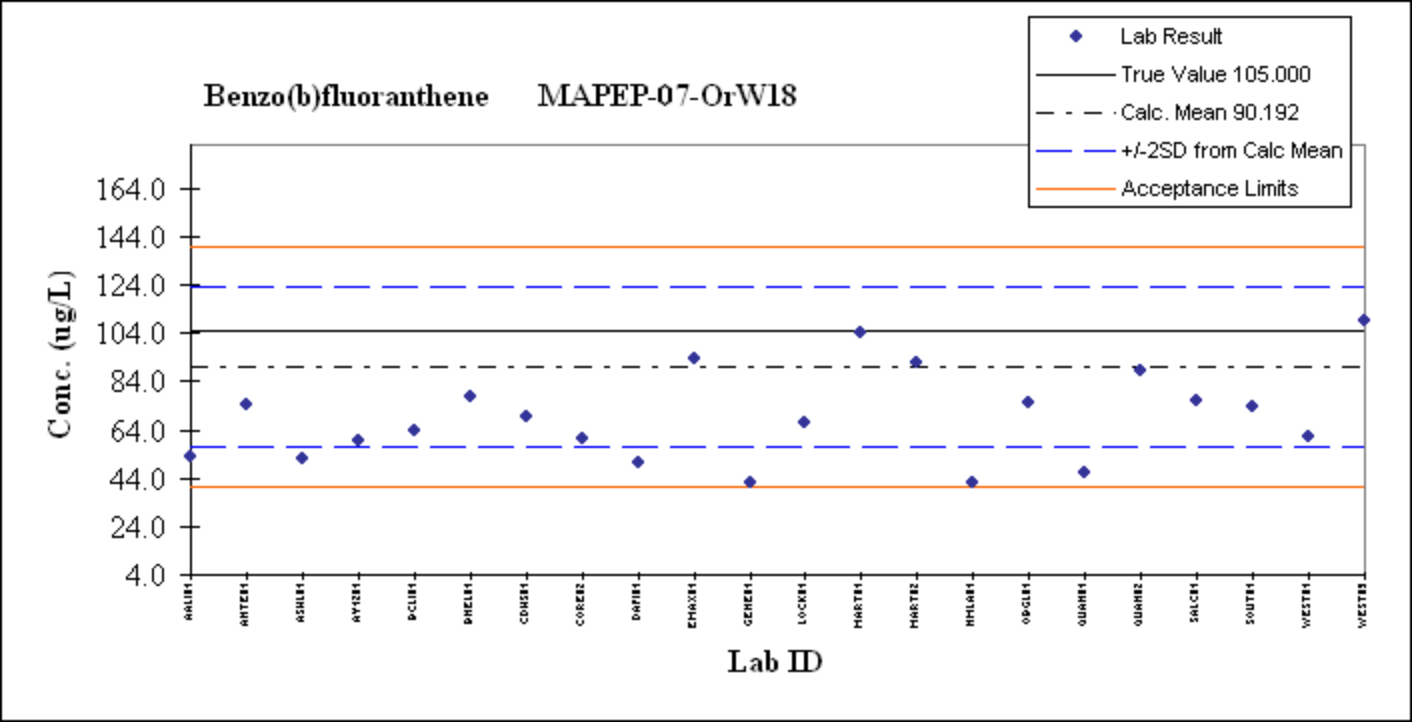

delta-BHC MAPEP-07-OrW18
Lab Result
True Value 3.77
Calc. Mean 3.29
+/-2SD from Calc Mean
Acceptance Limits
7.0
6.0
5.0
4.0
3.0
2.0
1.0
.0
Conc. (ug/L)
Lab ID

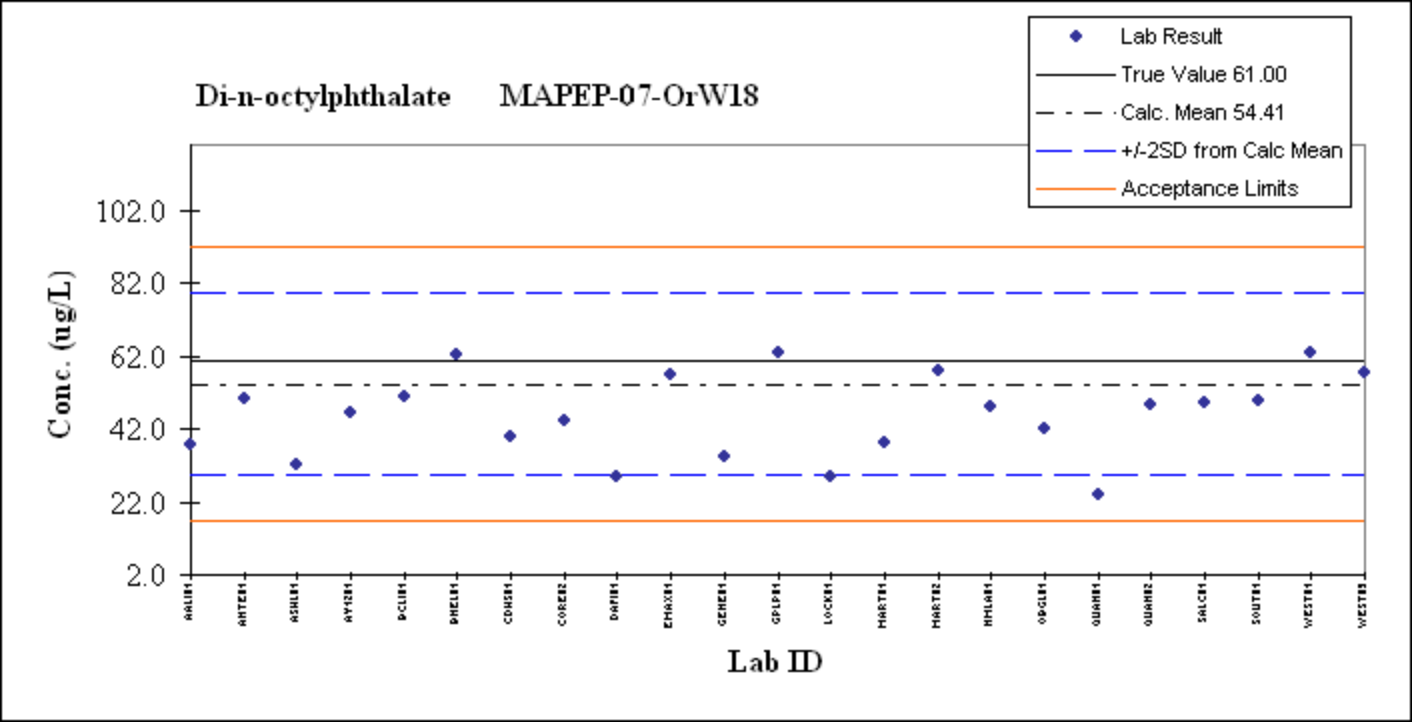

gamma-BHC (Lindane)
MAPEP-07-OrW18
Lab Result
True Value 6.25
Calc. Mean 5.59
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
10.0
8.0
6.0
4.0
2.0
.0
Lab ID

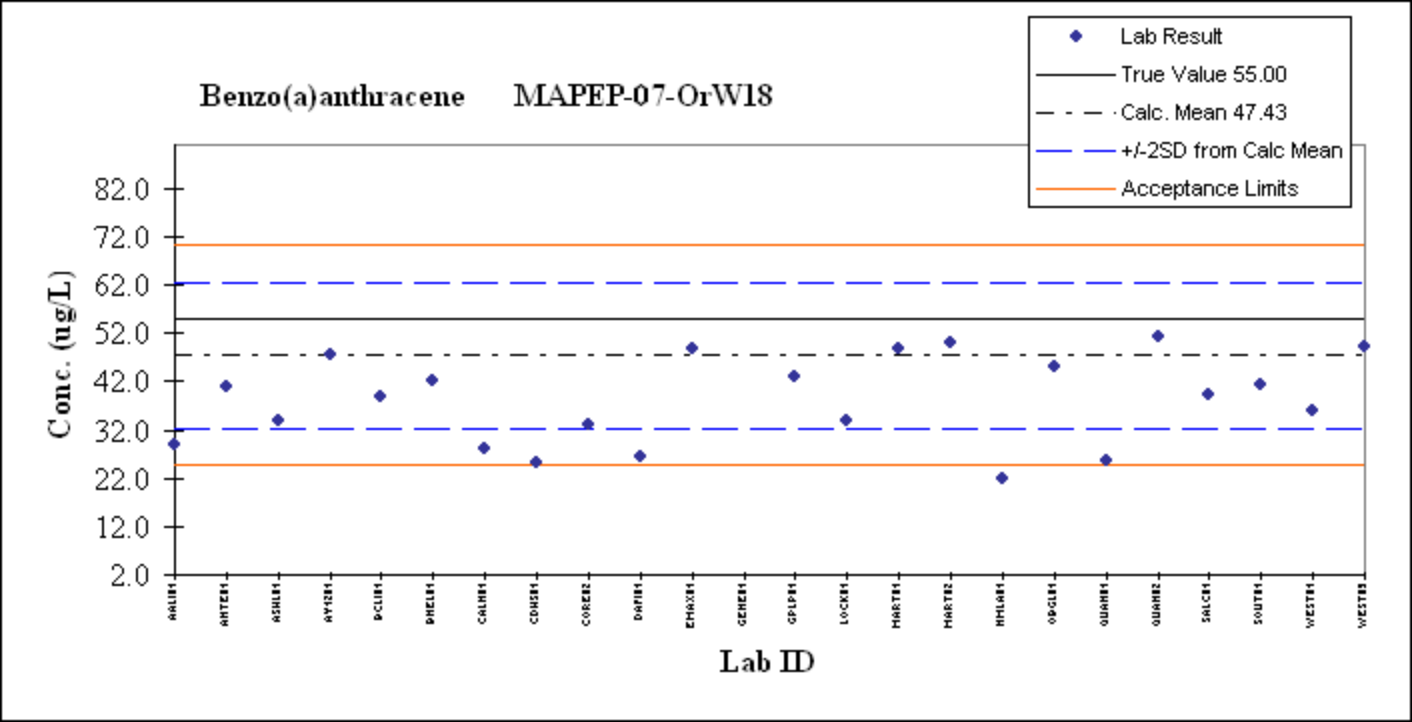

beta-BHC MAPEP-07-OrW18
Lab Result
True Value 5.25
Calc. Mean 4.69
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
.0
Lab ID

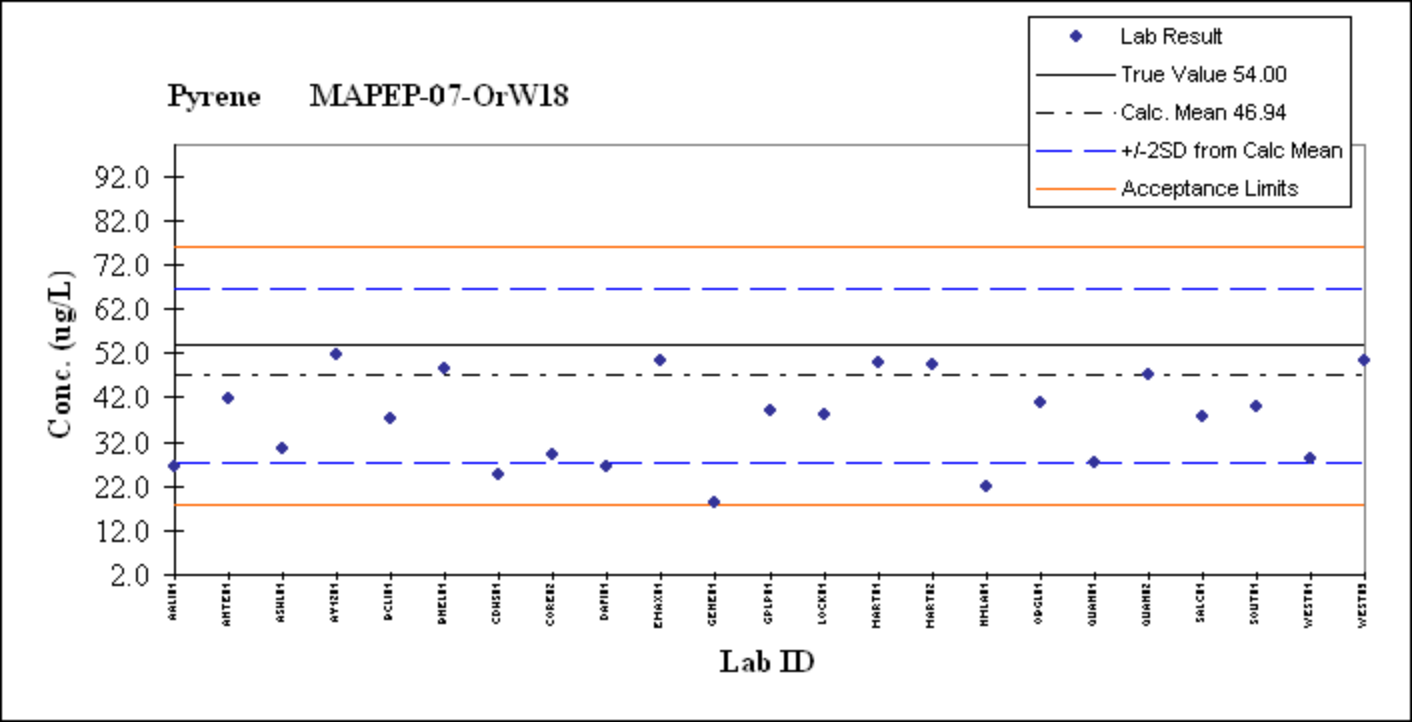

Benzo(g,h,i)perylene MAPEP-07-OrW18
Lab Result
True Value 144.000
Calc. Mean 125.104
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
206.0
156.0
106.0
56.0
6.0
Lab ID

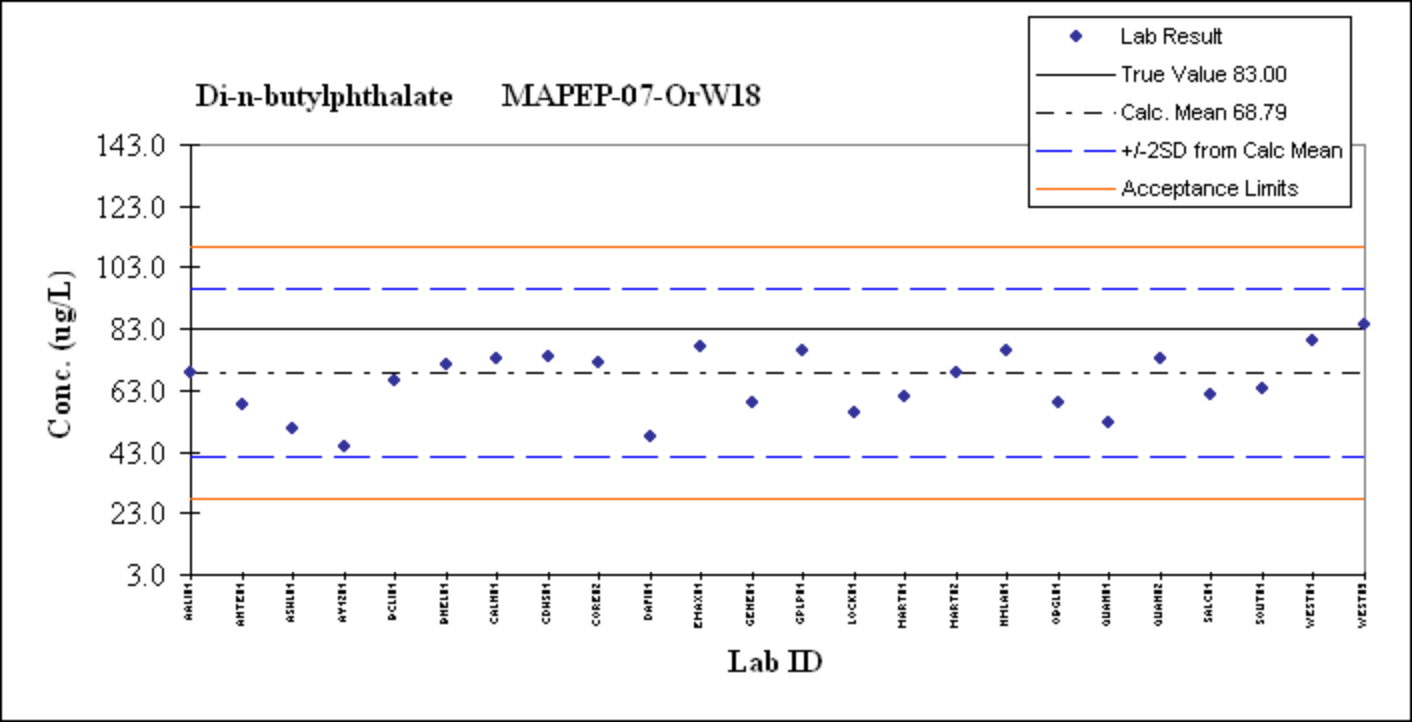

Benzo(a)pyrene MAPEP-07-OrW18
Lab Result
True Value 110.000
Calc. Mean 85.230
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
163.0
143.0
123.0
103.0
83.0
63.0
43.0
23.0
3.0
Lab ID

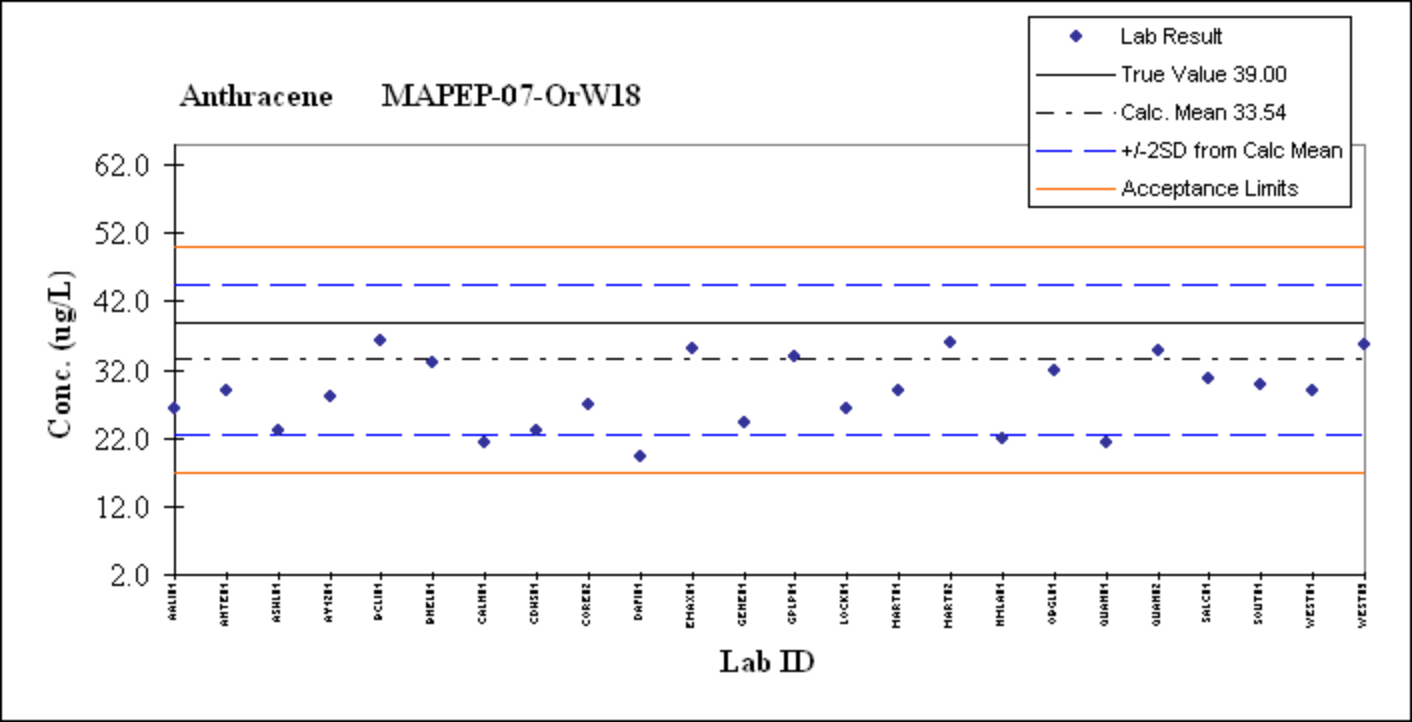

Benzo(b)fluoranthene MAPEP-07-OrW18
Lab Result
True Value 105.000
Calc. Mean 90.192
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
164.0
144.0
124.0
104.0
84.0
64.0
44.0
24.0
4.0
Lab ID

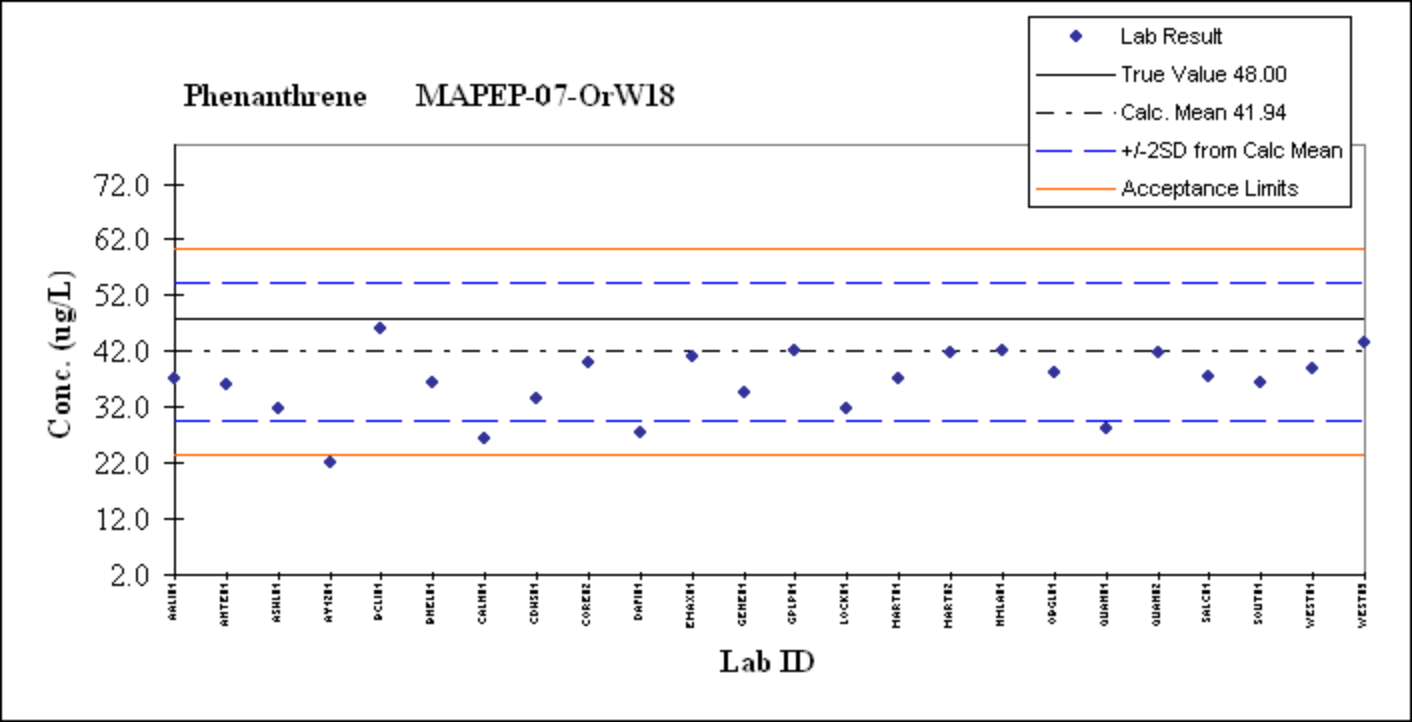

Di-n-octylphthalate MAPEP-07-OrW18
Lab Result
True Value 61.00
Calc. Mean 54.41
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
102.0
82.0
62.0
42.0
22.0
2.0
Lab ID

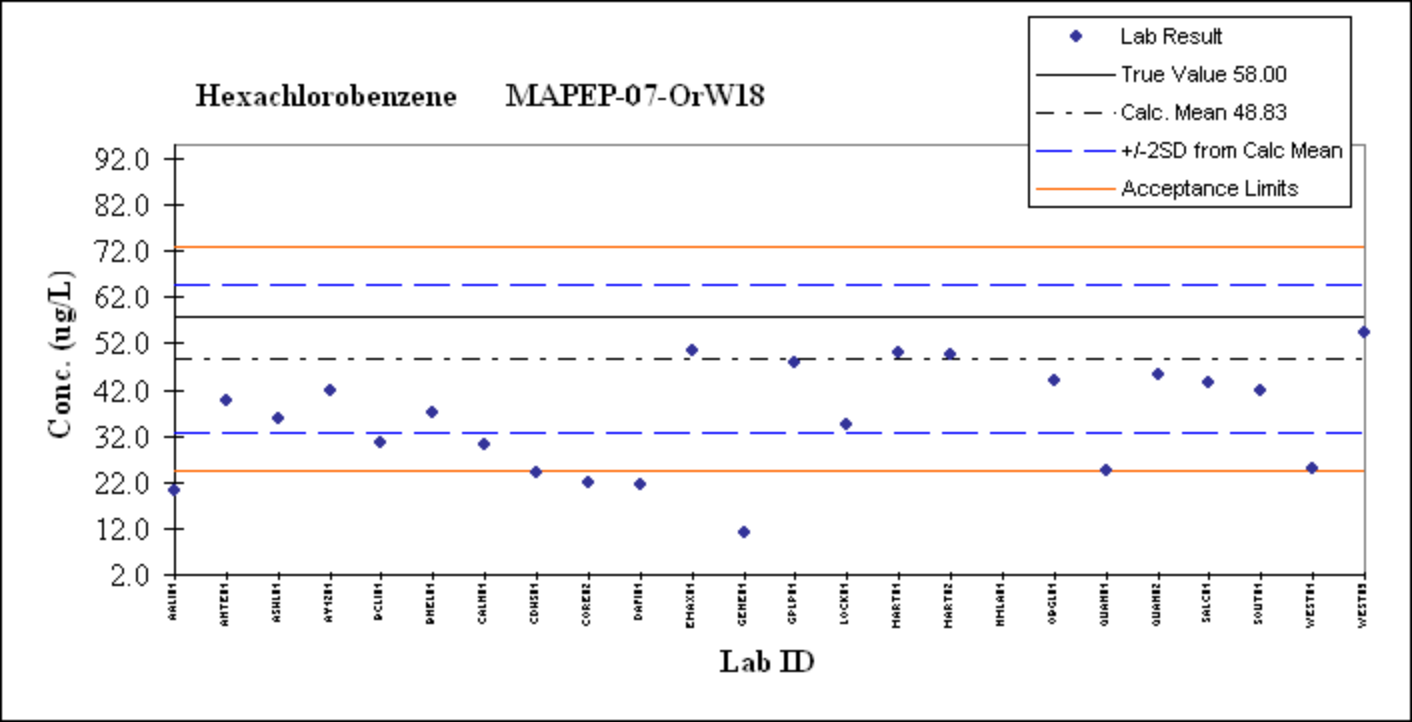

Benzo(a)anthracene MAPEP-07-OrW18
Lab Result
True Value 55.00
Calc. Mean 47.43
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
82.0
72.0
62.0
52.0
42.0
32.0
22.0
12.0
2.0
Lab ID

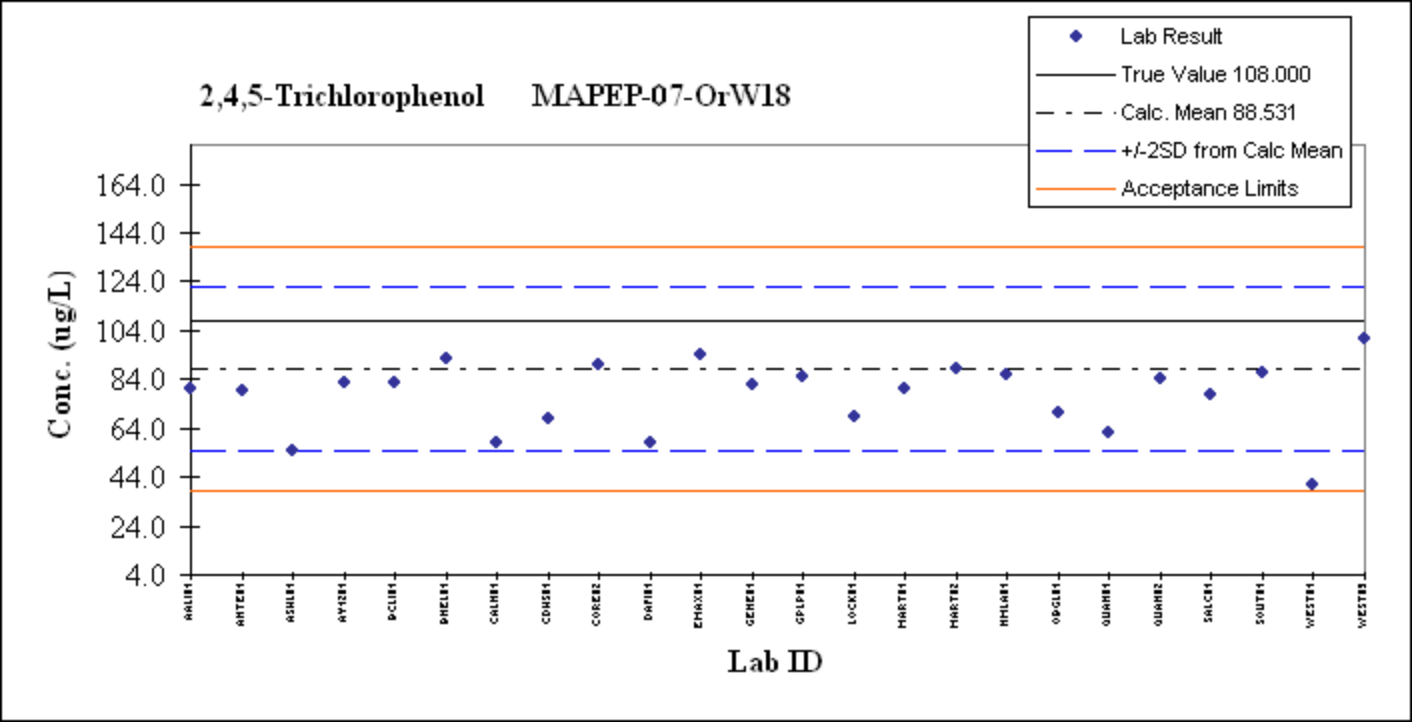

Pyrene MAPEP-07-OrW18
Lab Result
True Value 54.00
Calc. Mean 46.94
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
92.0
82.0
72.0
62.0
52.0
42.0
32.0
22.0
12.0
2.0
Lab ID

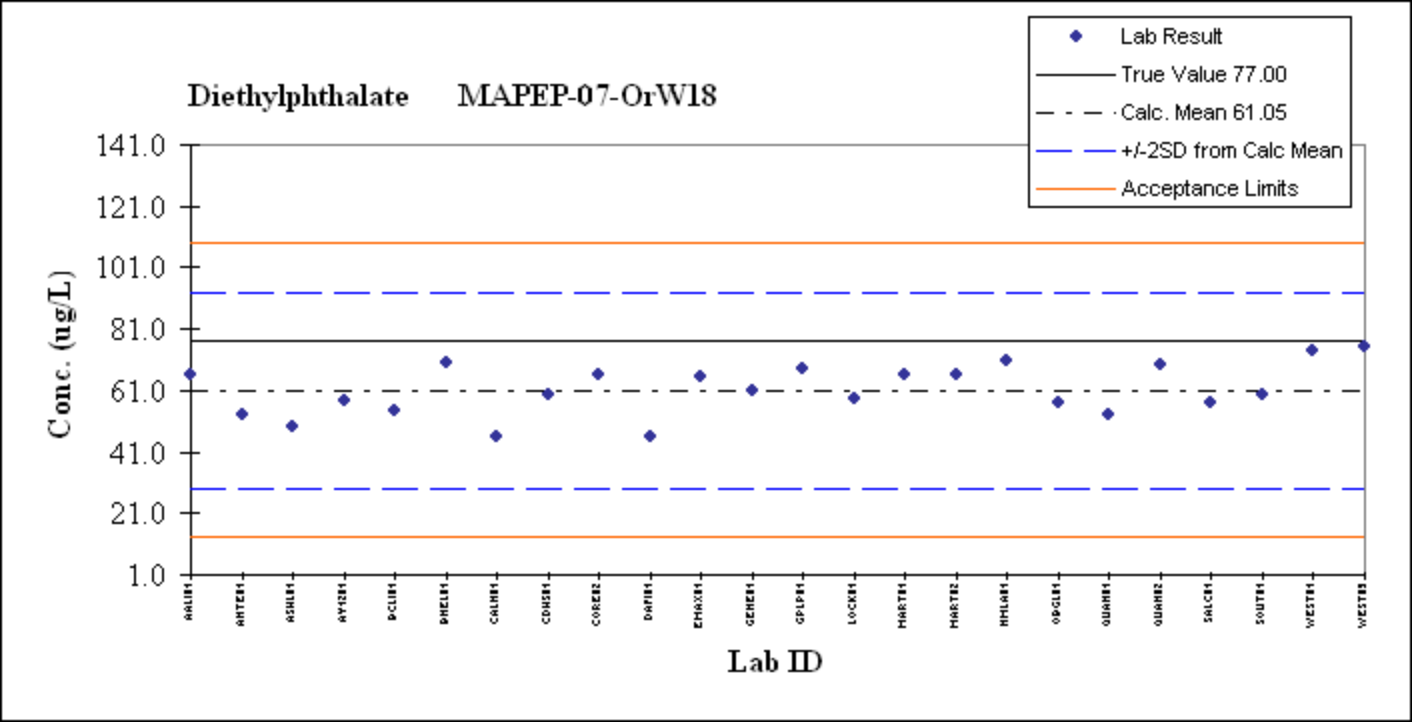

Di-n-butylphthalate MAPEP-07-OrW18
Lab Result
True Value 83.00
Calc. Mean 68.79
+/-2SD from Calc Mean
Acceptance Limits
143.0
123.0
103.0
83.0
63.0
43.0
23.0
3.0
Conc. (ug/L)
Lab ID

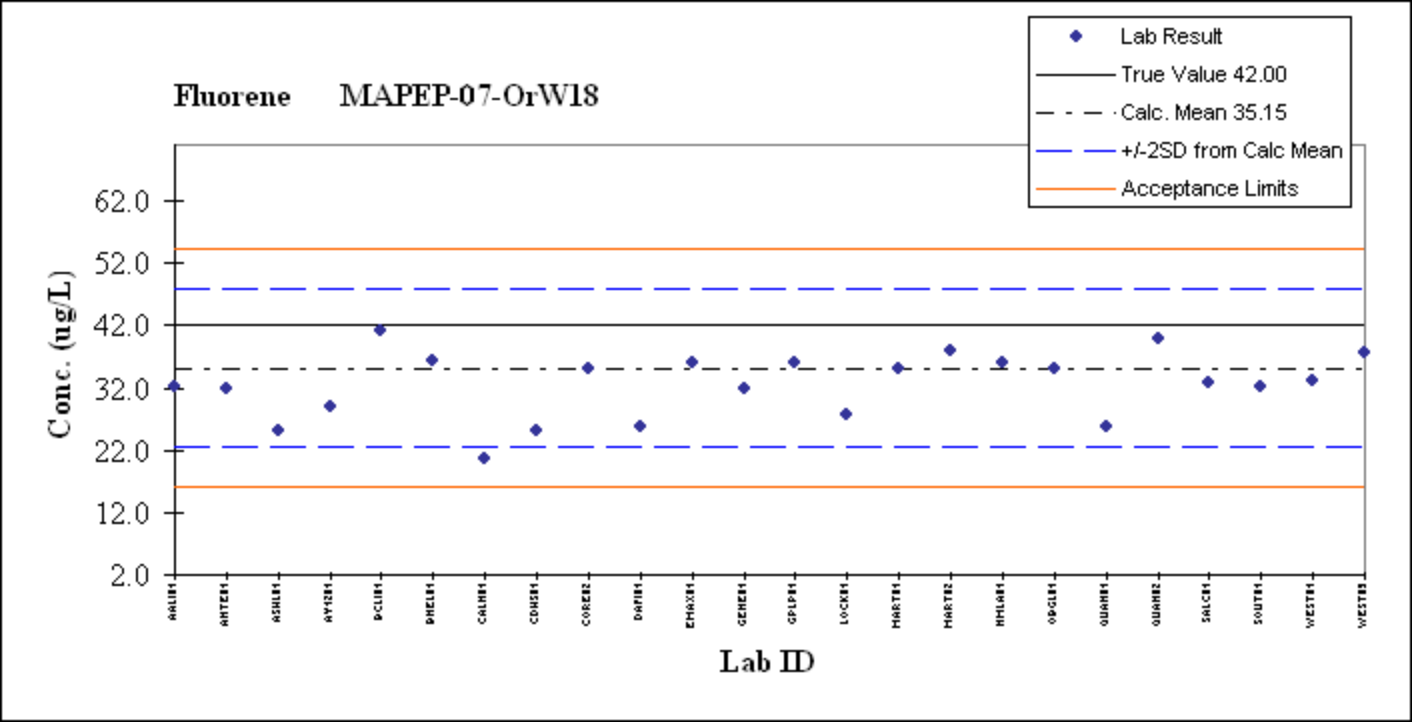

Anthracene MAPEP-07-OrW18
Lab Result
True Value 39.00
Calc. Mean 33.54
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
62.0
52.0
42.0
32.0
22.0
12.0
2.0
Lab ID

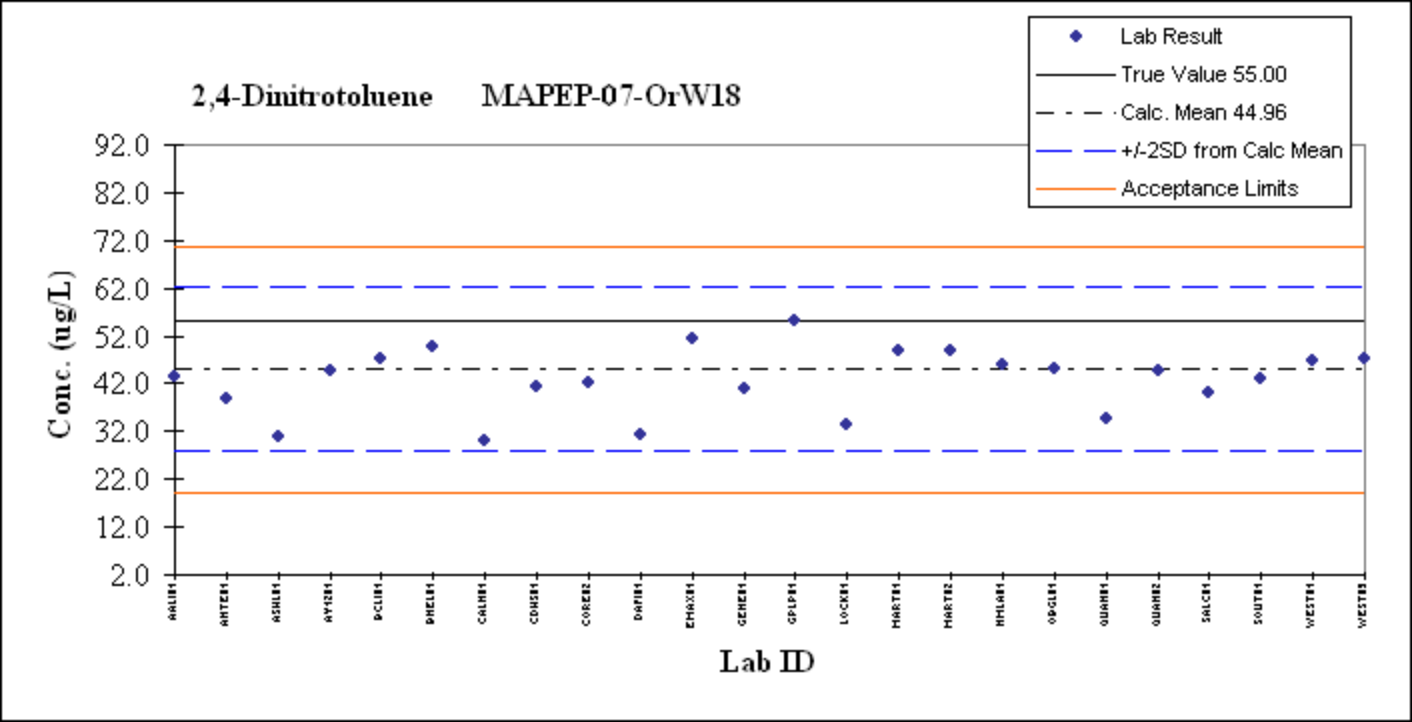

Phenanthrene MAPEP-07-OrW18
Lab Result
True Value 48.00
Calc. Mean 41.94
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
72.0
62.0
52.0
42.0
32.0
22.0
12.0
2.0
Lab ID

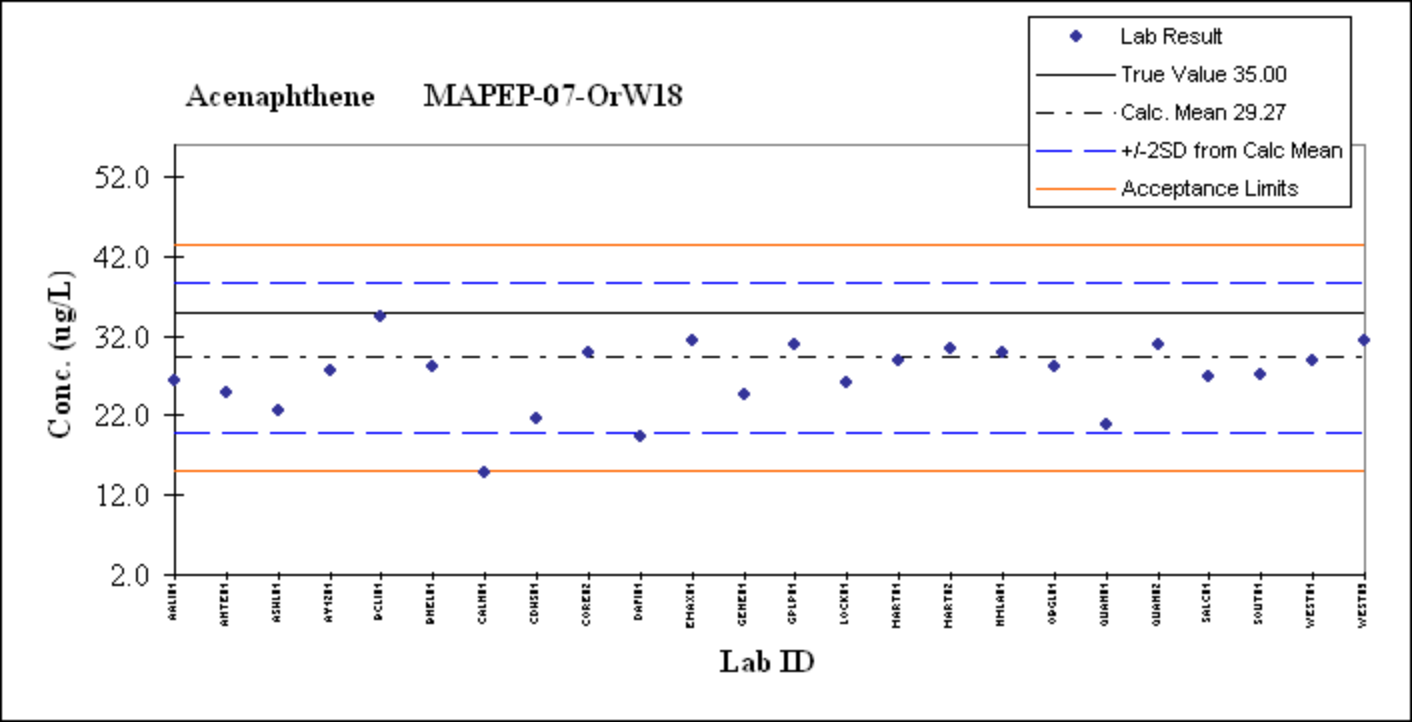

Hexachlorobenzene MAPEP-07-OrW18
Lab Result
True Value 58.00
Calc. Mean 48.83
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
92.0
82.0
72.0
62.0
52.0
42.0
32.0
22.0
12.0
2.0
Lab ID

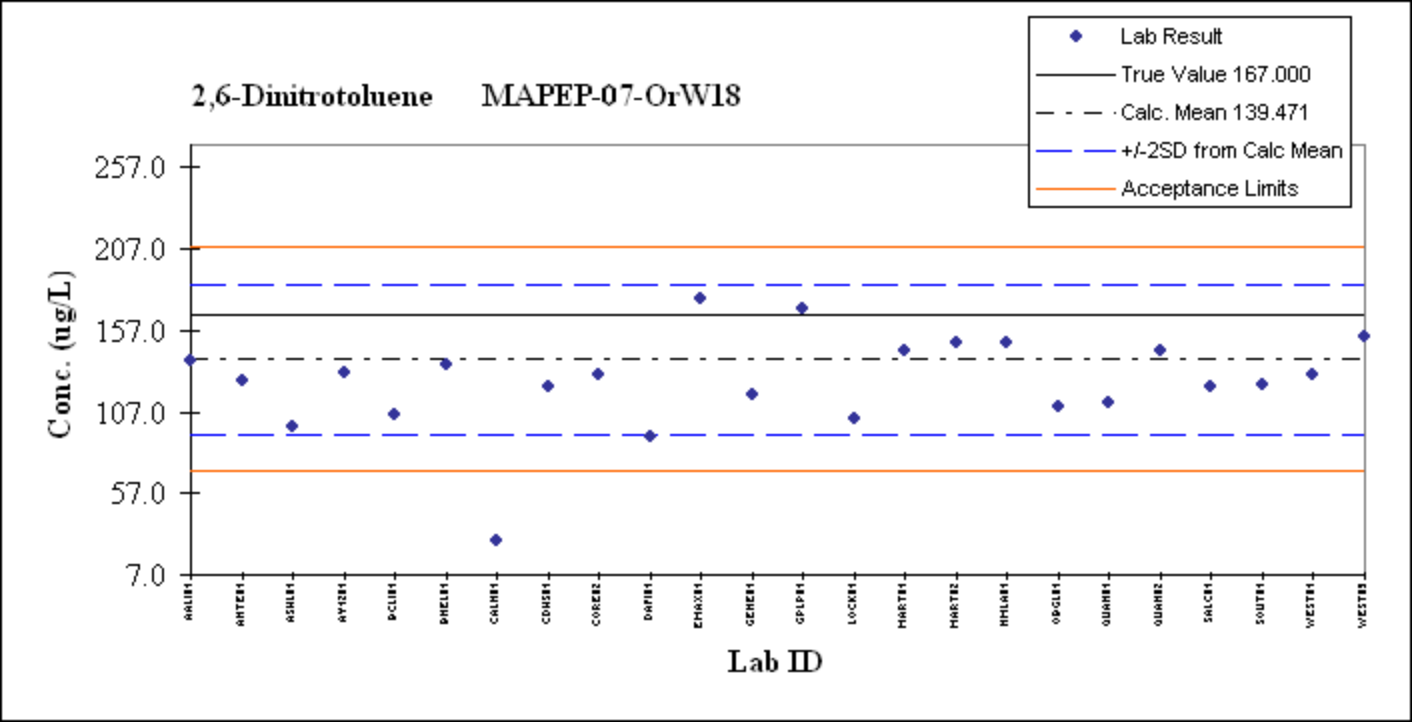

2,4,5-Trichlorophenol MAPEP-07-OrW18
Lab Result
True Value 108.000
Calc. Mean 88.531
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
164.0
144.0
124.0
104.0
84.0
64.0
44.0
24.0
4.0
Lab ID

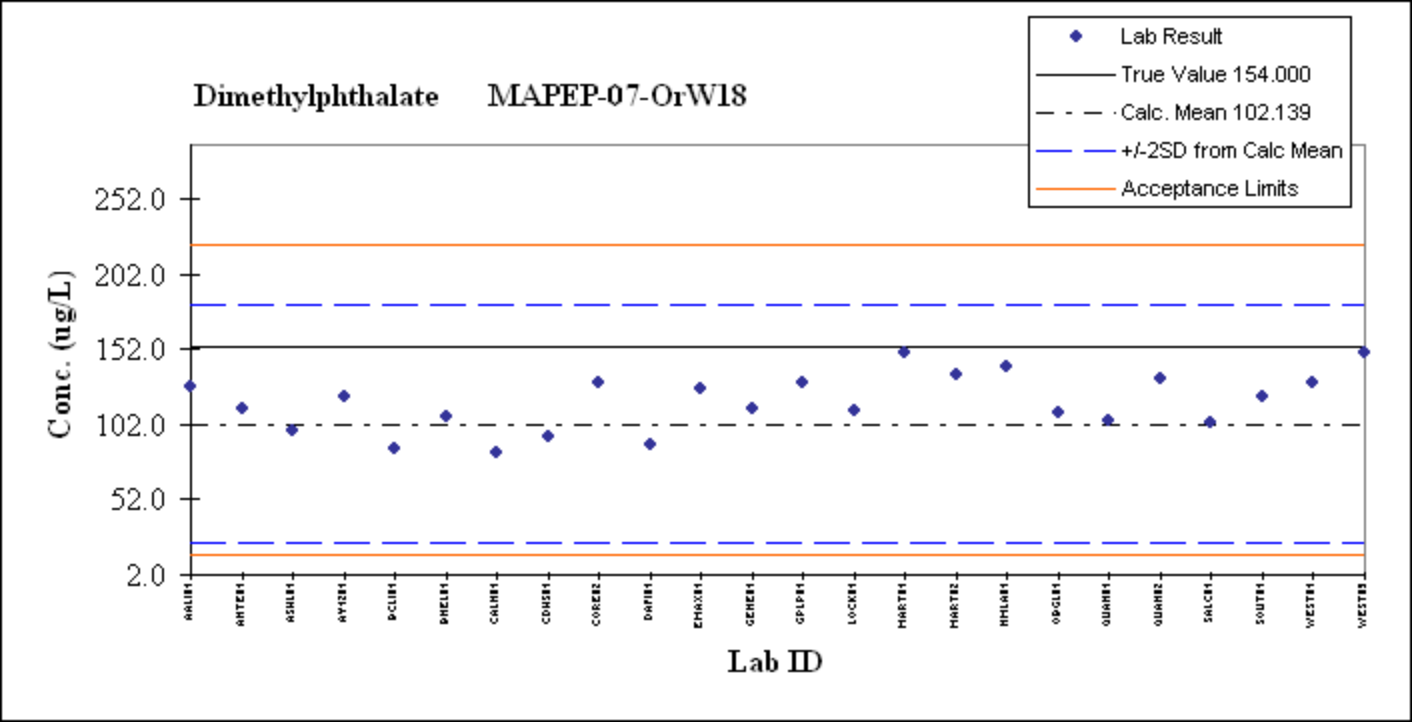

Diethylphthalate MAPEP-07-OrW18
Lab Result
True Value 77.00
Calc. Mean 61.05
+/-2SD from Calc Mean
Acceptance Limits
141.0
121.0
101.0
81.0
61.0
41.0
21.0
1.0
Conc. (ug/L)
Lab ID

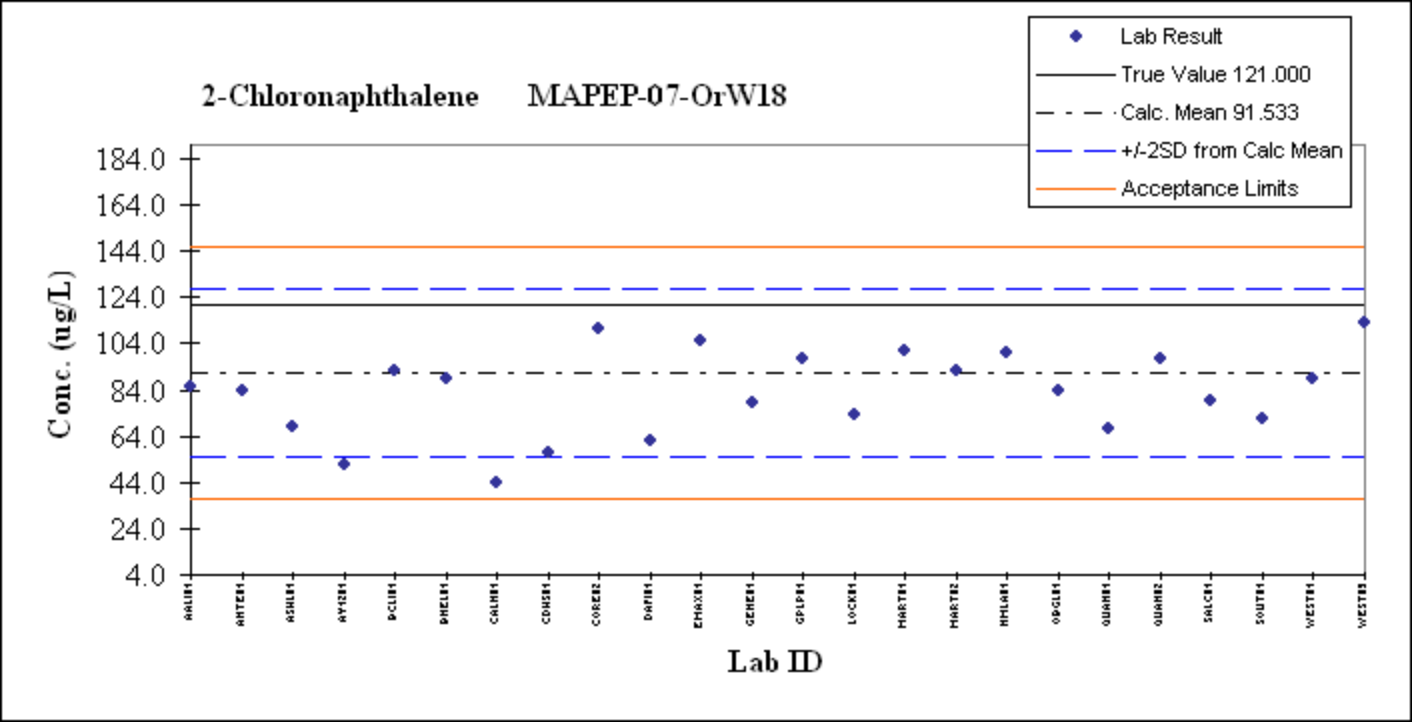

Fluorene MAPEP-07-OrW18
Lab Result
True Value 42.00
Calc. Mean 35.15
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
62.0
52.0
42.0
32.0
22.0
12.0
2.0
Lab ID

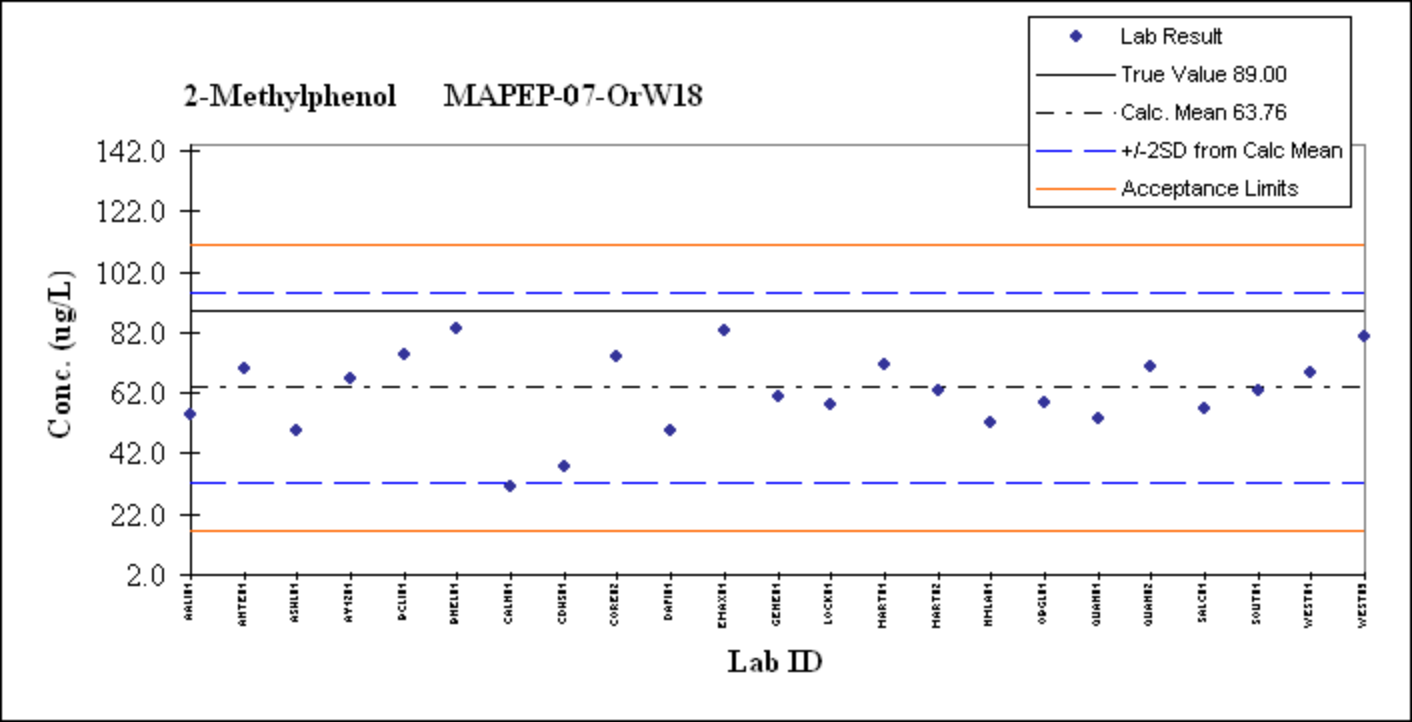

2,4-Dinitrotoluene MAPEP-07-OrW18
Lab Result
True Value 55.00
Calc. Mean 44.96
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
92.0
82.0
72.0
62.0
52.0
42.0
32.0
22.0
12.0
2.0
Lab ID

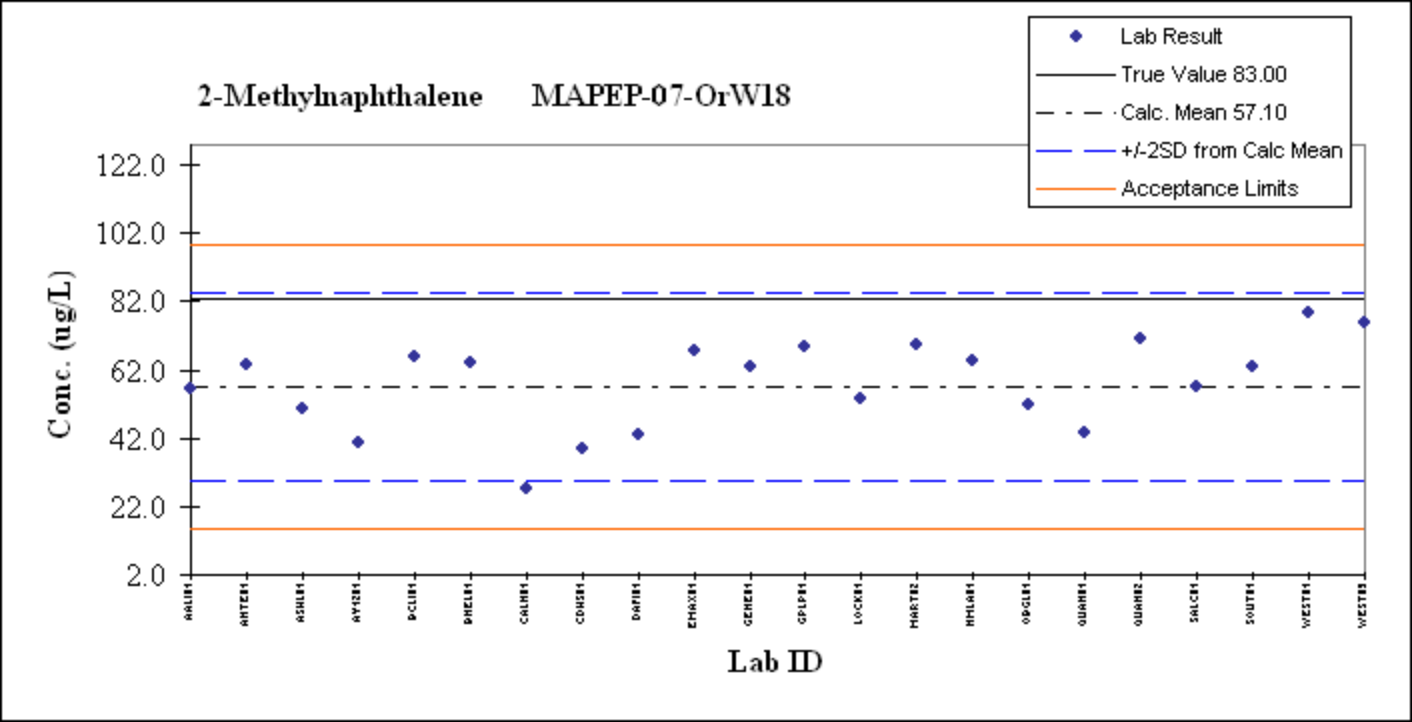

Acenaphthene MAPEP-07-OrW18
Lab Result
True Value 35.00
Calc. Mean 29.27
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
52.0
42.0
32.0
22.0
12.0
2.0
Lab ID

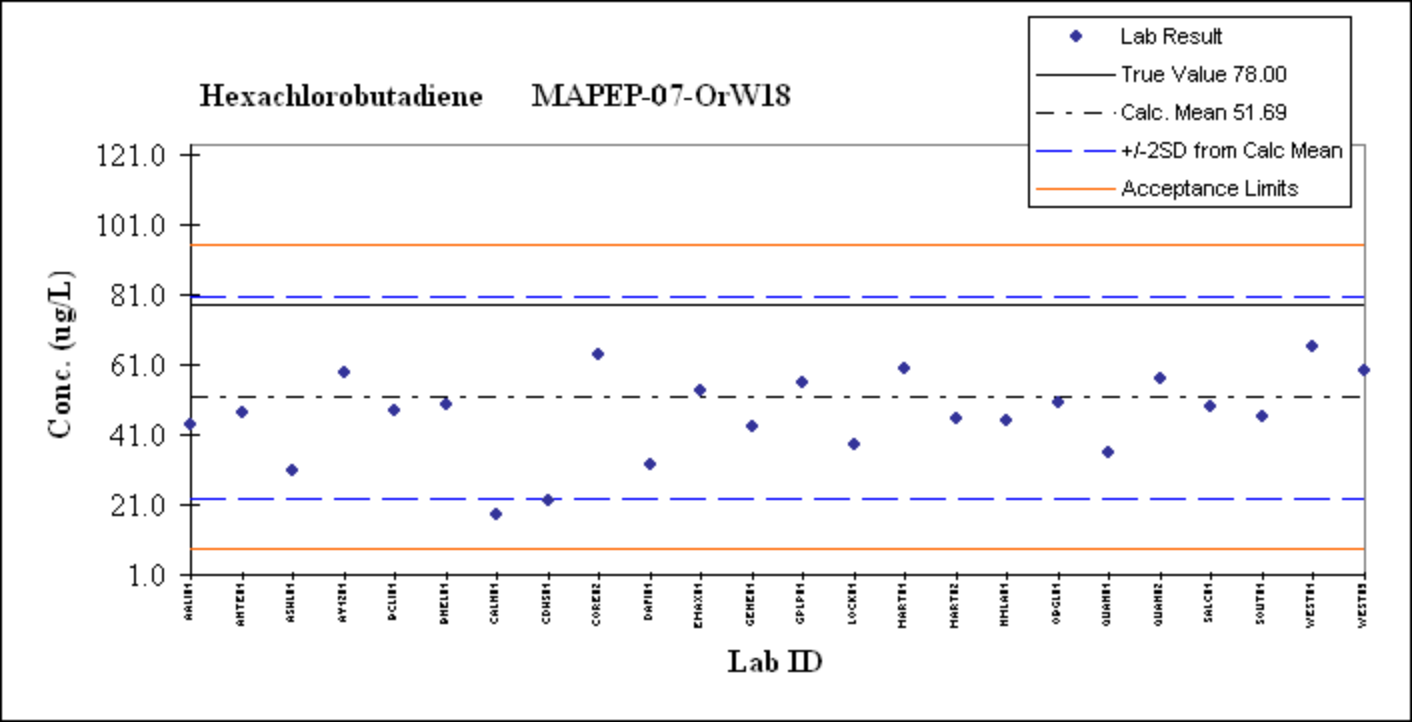

2,6-Dinitrotoluene MAPEP-07-OrW18
Lab Result
True Value 167.000
Calc. Mean 139.471
+/-2SD from Calc Mean
Acceptance Limits
257.0
207.0
157.0
107.0
57.0
7.0
Conc. (ug/L)
Lab ID

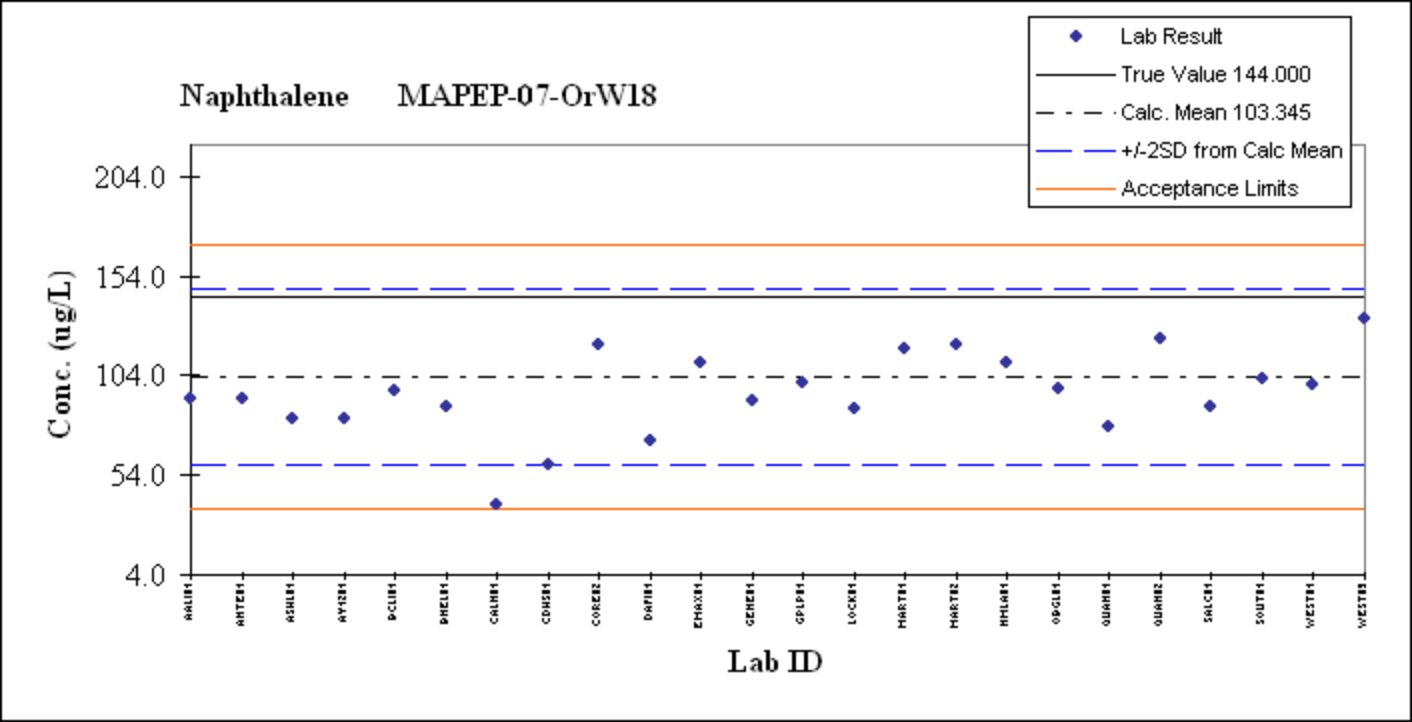

Dimethylphthalate MAPEP-07-OrW18
Lab Result
True Value 154.000
Calc. Mean 102.139
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
252.0
202.0
152.0
102.0
52.0
2.0
Lab ID

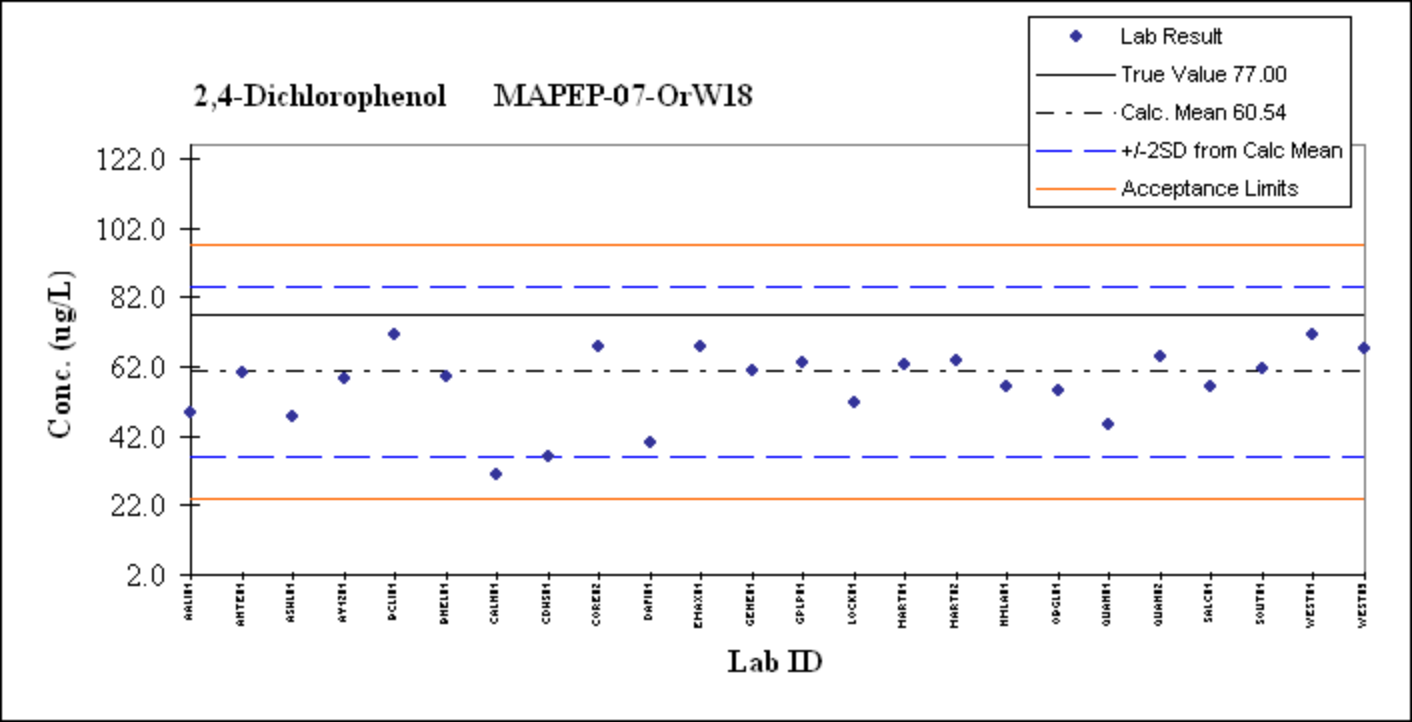

2-Chloronaphthalene MAPEP-07-OrW18
Lab Result
True Value 121.000
Calc. Mean 91.533
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
184.0
164.0
144.0
124.0
104.0
84.0
64.0
44.0
24.0
4.0
Lab ID

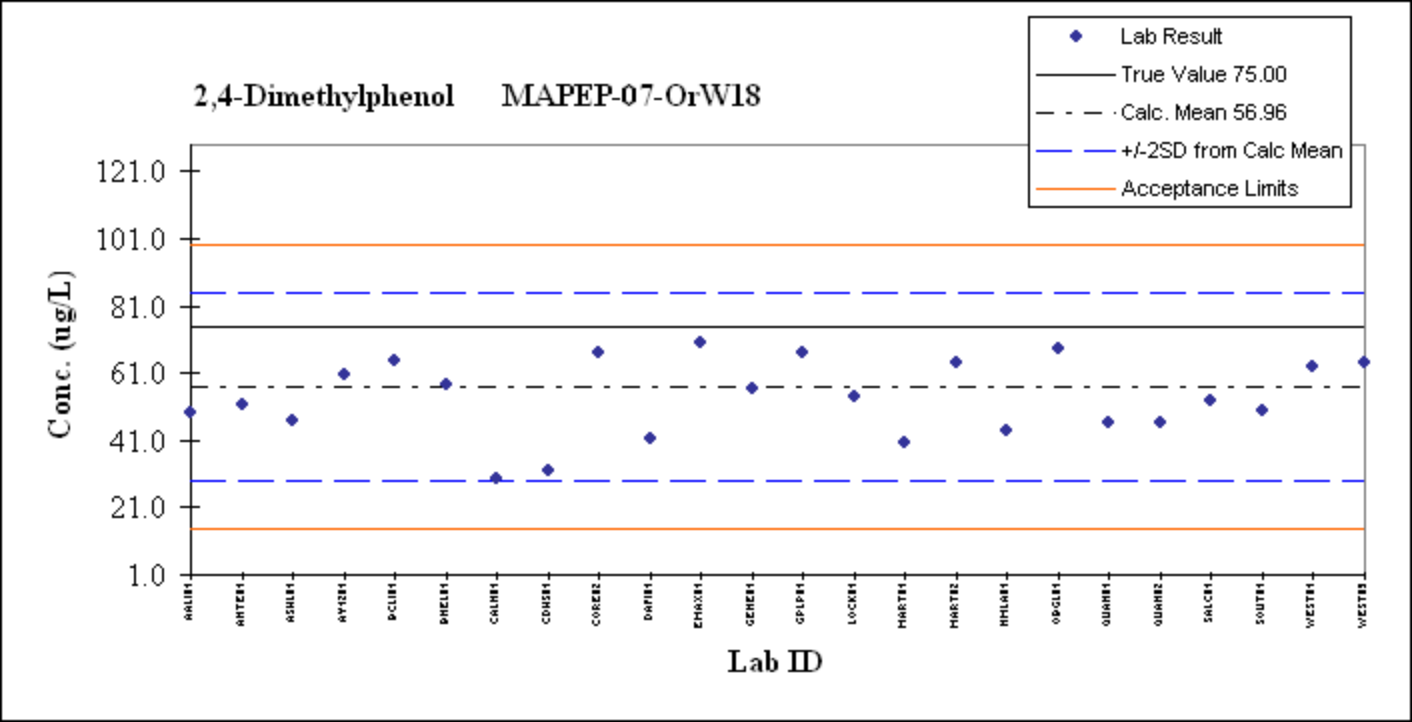

2-Methylphenol MAPEP-07-OrW18
Lab Result
True Value 89.00
Calc. Mean 63.76
+/-2SD from Calc Mean
Acceptance Limits
142.0
122.0
102.0
82.0
62.0
42.0
22.0
2.0
Conc. (ug/L)
Lab ID

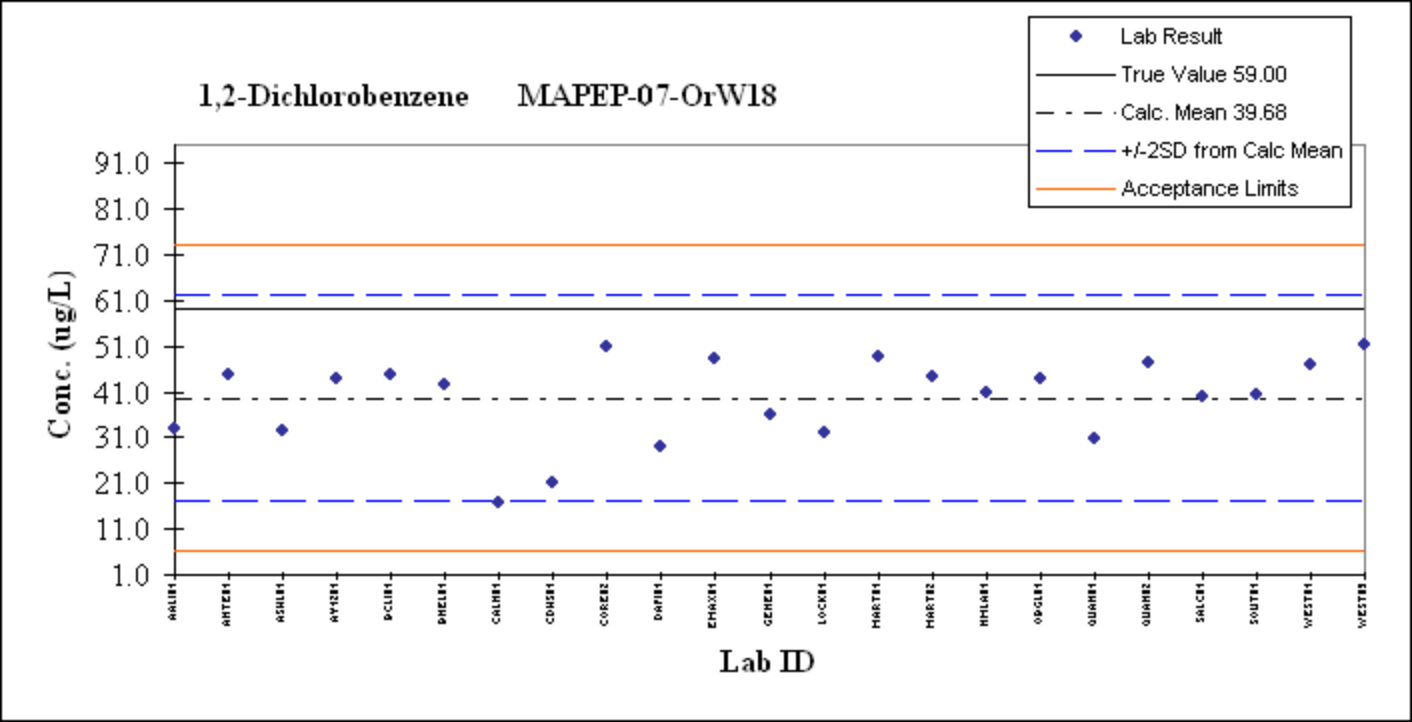

2-Methylnaphthalene MAPEP-07-OrW18
Lab Result
True Value 83.00
Calc. Mean 57.10
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
122.0
102.0
82.0
62.0
42.0
22.0
2.0
Lab ID

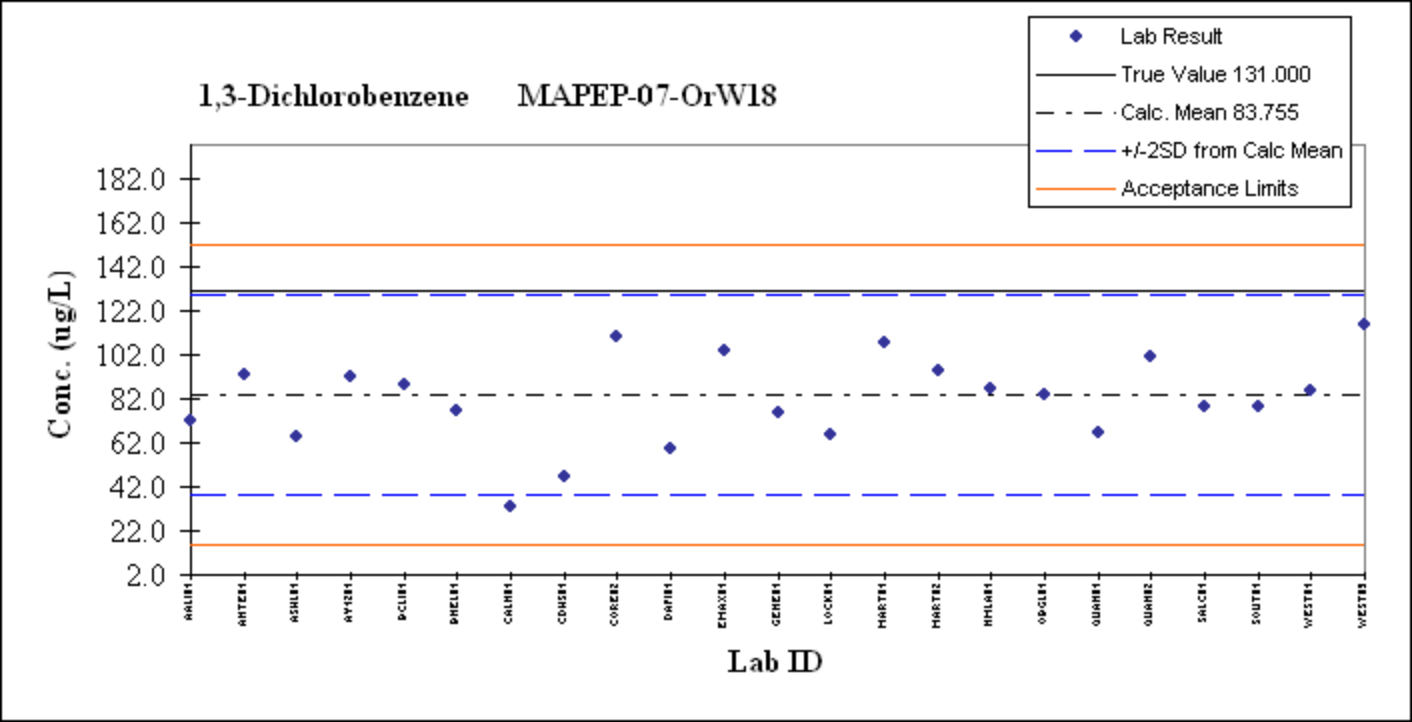

Hexachlorobutadiene MAPEP-07-OrW18
Lab Result
True Value 78.00
Calc. Mean 51.69
+/-2SD from Calc Mean
Acceptance Limits
121.0
101.0
81.0
61.0
41.0
21.0
1.0
Conc. (ug/L)
Lab ID

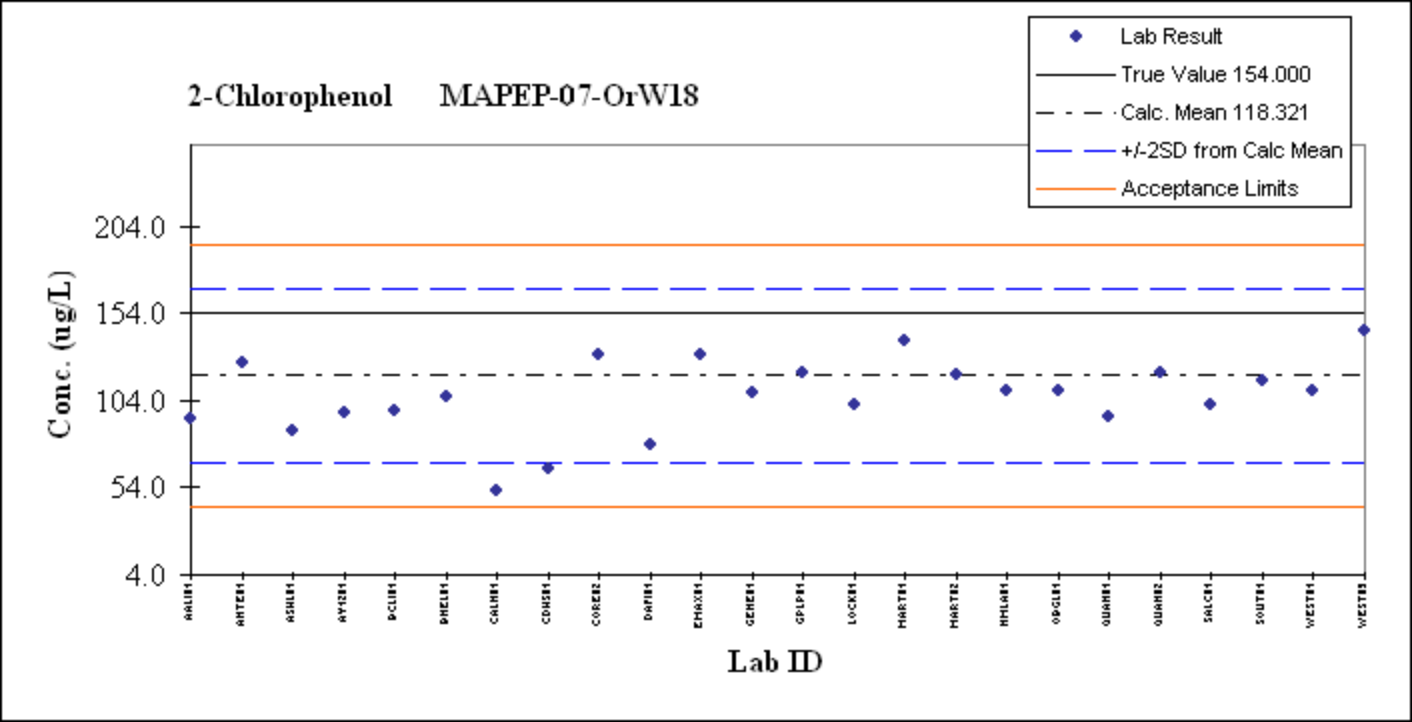

Naphthalene MAPEP-07-OrW18
Lab Result
True Value 144.000
Calc. Mean 103.345
+/-2SD from Calc Mean
Acceptance Limits
204.0
154.0
104.0
54.0
4.0
Conc. (ug/L)
Lab ID

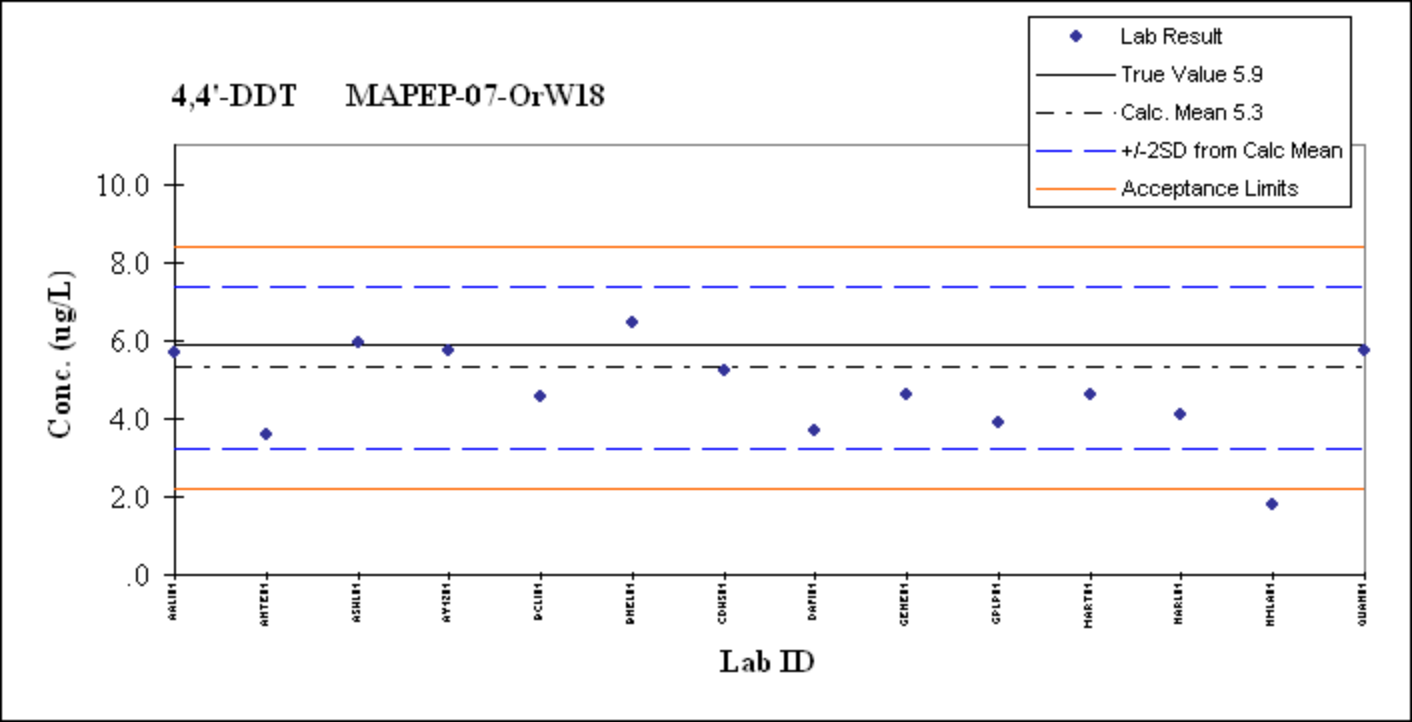

2,4-Dichlorophenol MAPEP-07-OrW18
Lab Result
True Value 77.00
Calc. Mean 60.54
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
122.0
102.0
82.0
62.0
42.0
22.0
2.0
Lab ID


2,4-Dimethylphenol MAPEP-07-OrW18
Lab Result
True Value 75.00
Calc. Mean 56.96
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
121.0
101.0
81.0
61.0
41.0
21.0
1.0
Lab ID


1,2-Dichlorobenzene MAPEP-07-OrW18
Lab Result
True Value 59.00
Calc. Mean 39.68
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
91.0
81.0
71.0
61.0
51.0
41.0
31.0
21.0
11.0
1.0
Lab ID

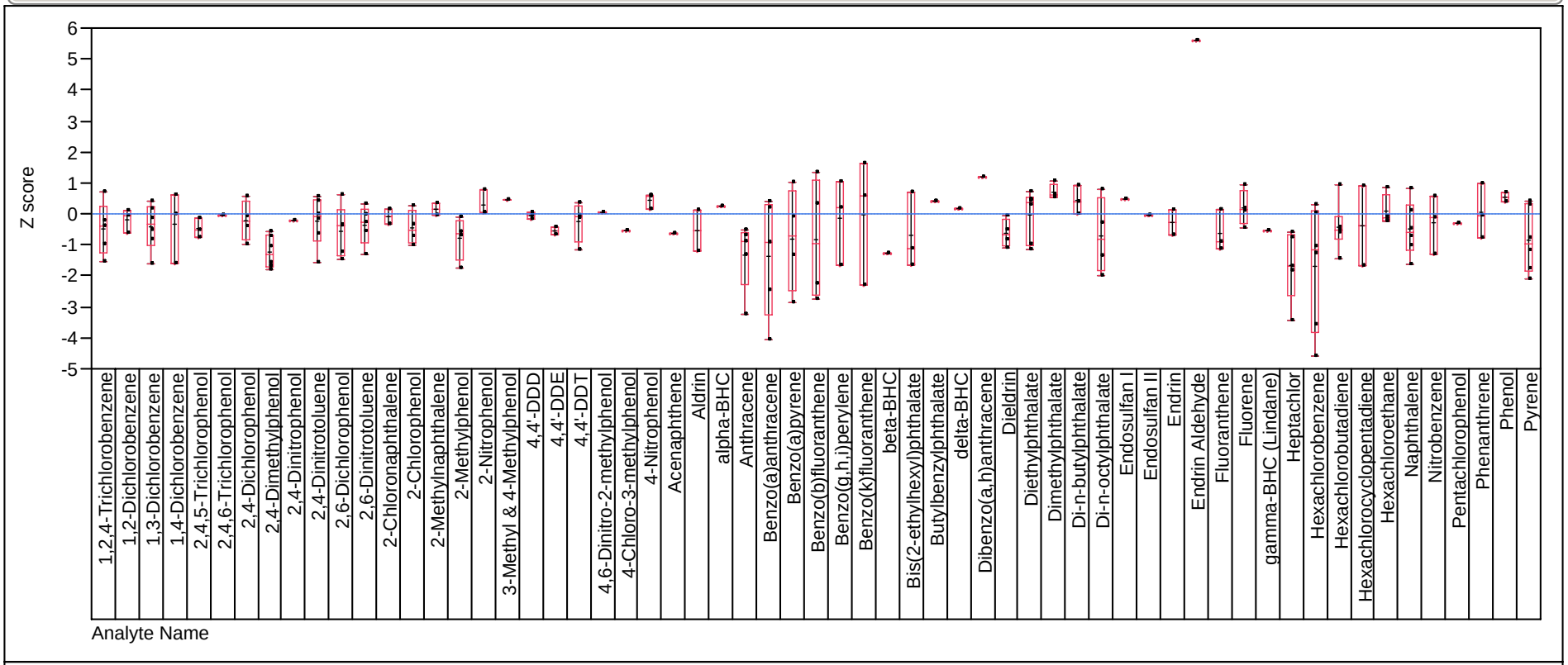

1,3-Dichlorobenzene MAPEP-07-OrW18
Lab Result
True Value 131.000
Calc. Mean 83.755
+/-2SD from Calc Mean
Acceptance Limits
182.0
162.0
142.0
122.0
102.0
82.0
62.0
42.0
22.0
2.0
Conc. (ug/L)
Lab ID

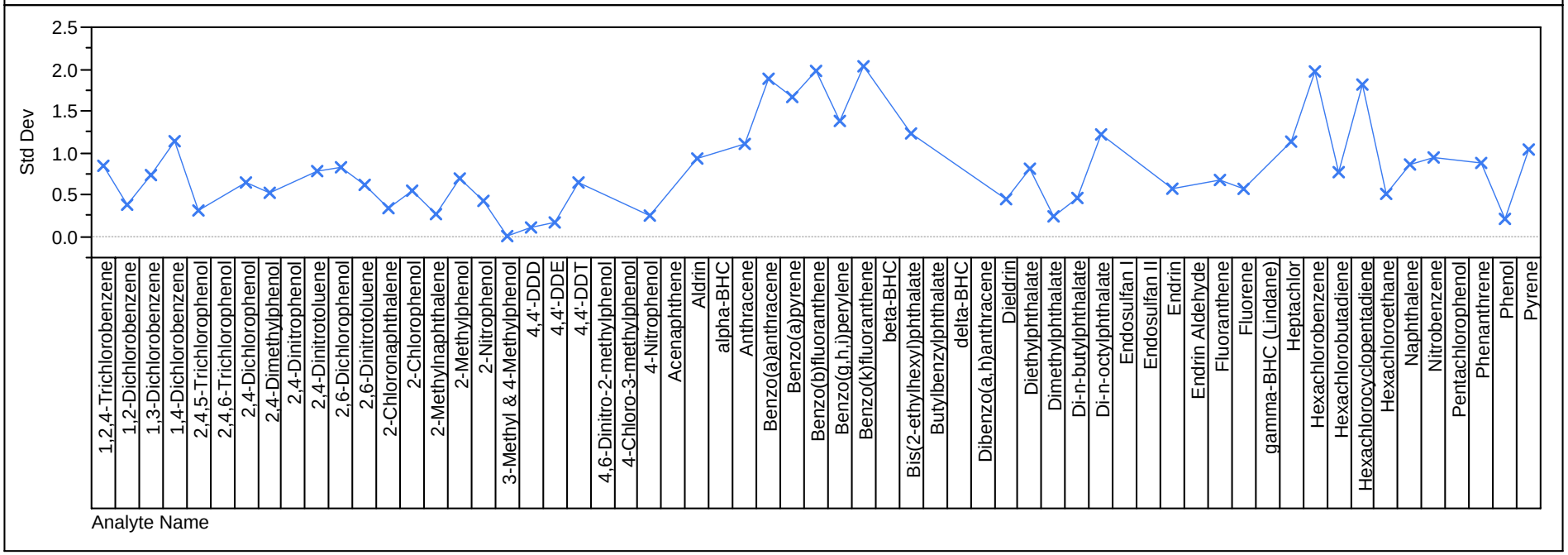

2-Chlorophenol MAPEP-07-OrW18
Lab Result
True Value 154.000
Calc. Mean 118.321
+/-2SD from Calc Mean
Acceptance Limits
Conc. (ug/L)
204.0
154.0
104.0
54.0
4.0
Lab ID


4,4'-DDT MAPEP-07-OrW18
Lab Result
True Value 5.9
Calc. Mean 5.3
+/-2SD from Calc Mean
Acceptance Limits
10.0
8.0
6.0
4.0
2.0
.0
Conc. (ug/L)
Lab ID

Variability Gauge Lab Code=AALI01

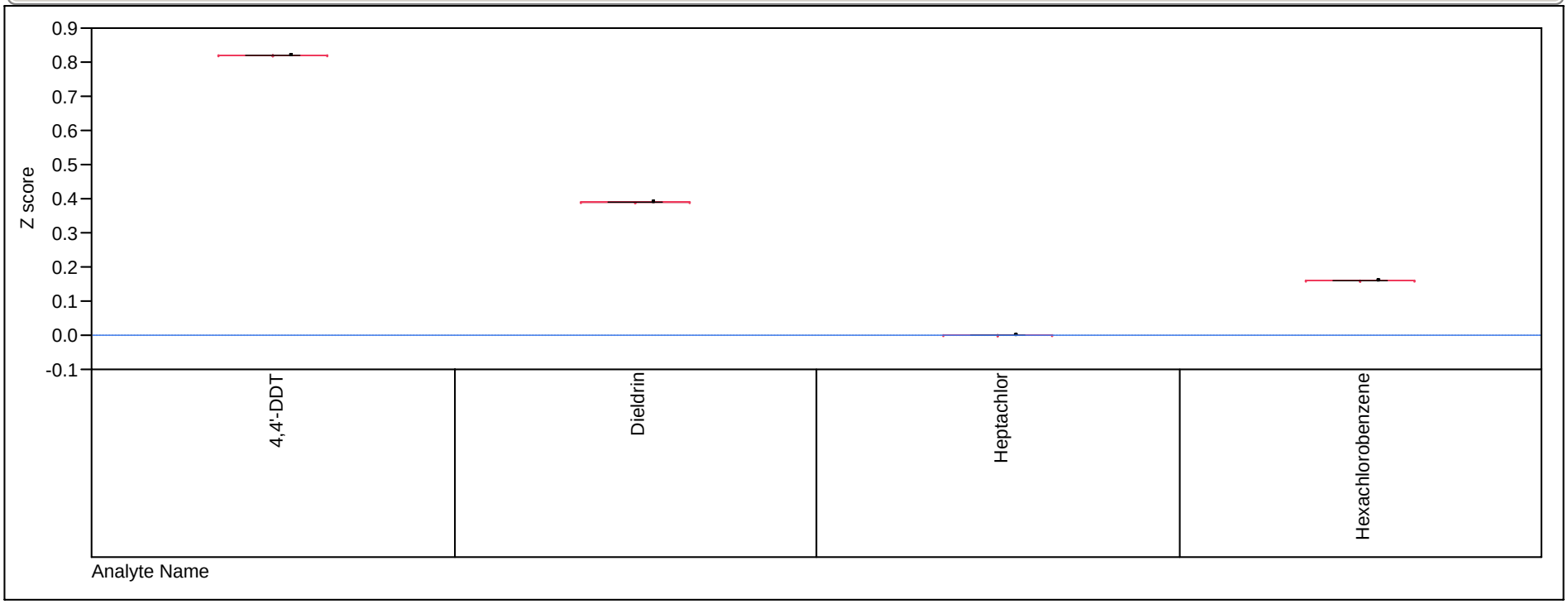
Variability Chart for Z score





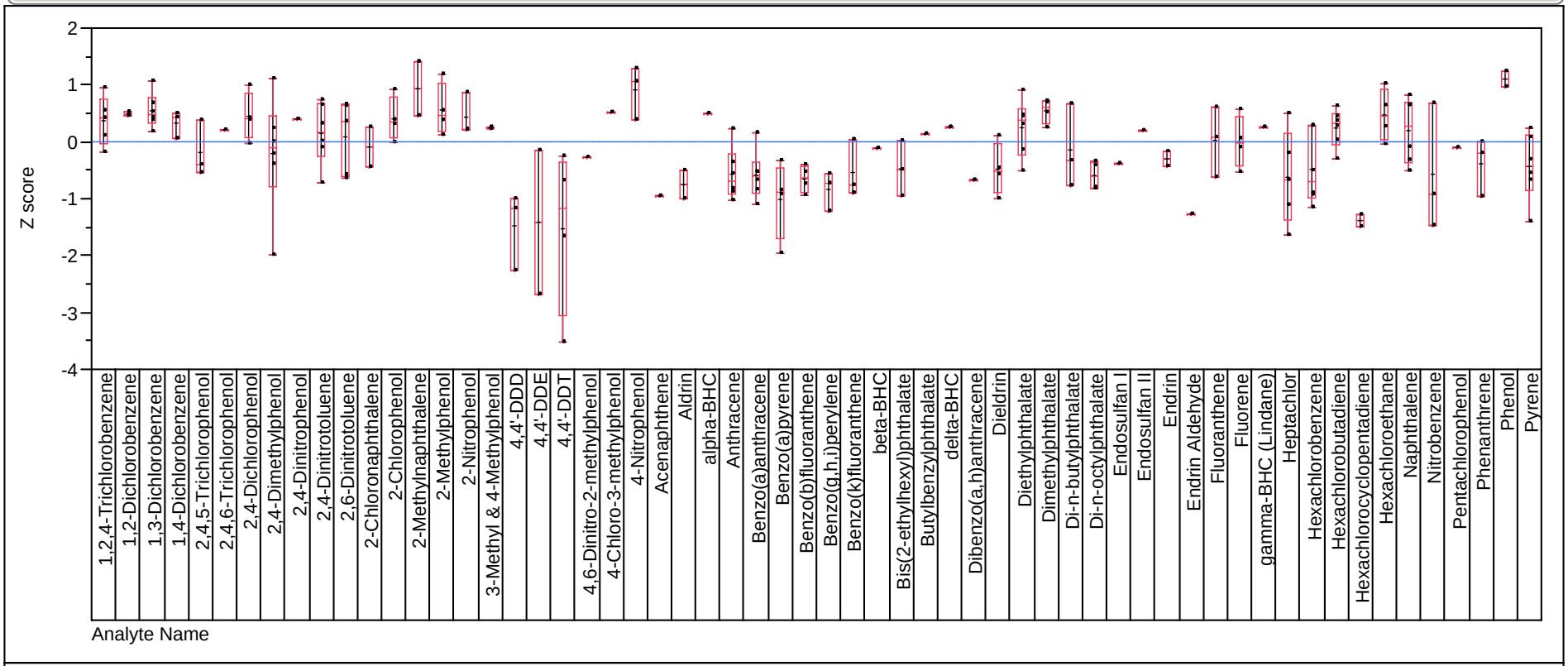
Variability Gauge Lab Code=ADEM01

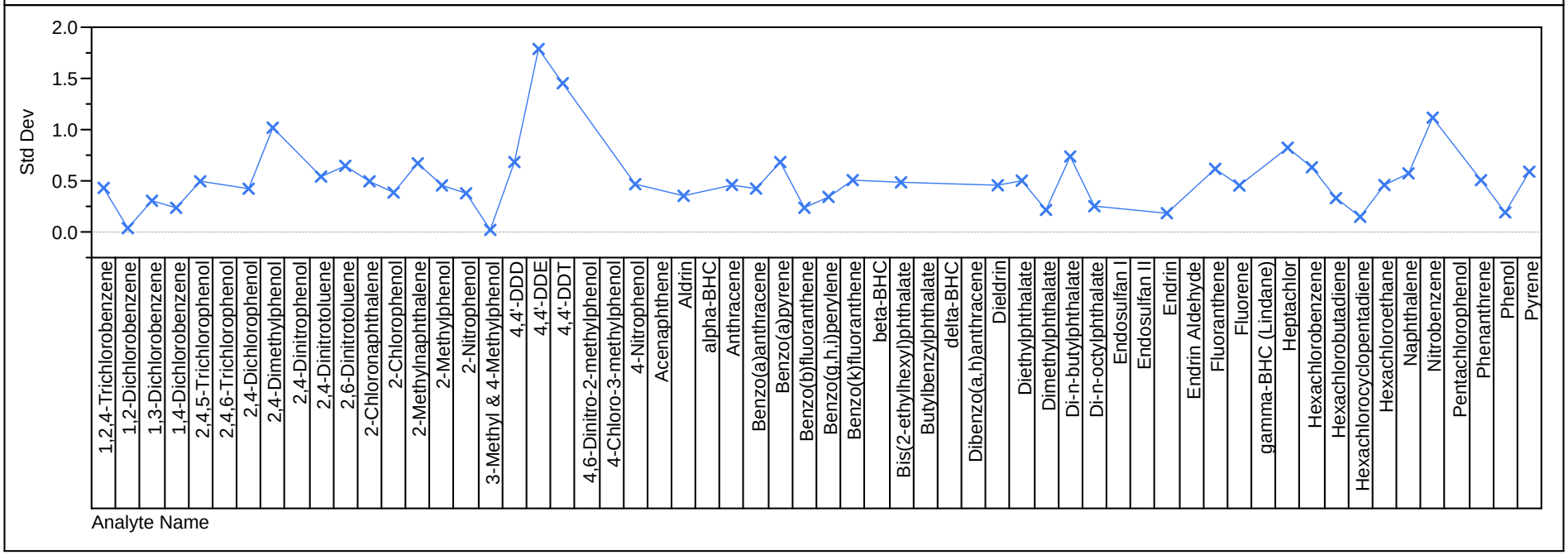
Variability Chart for Z score



Variability Gauge Lab Code=ANTE01

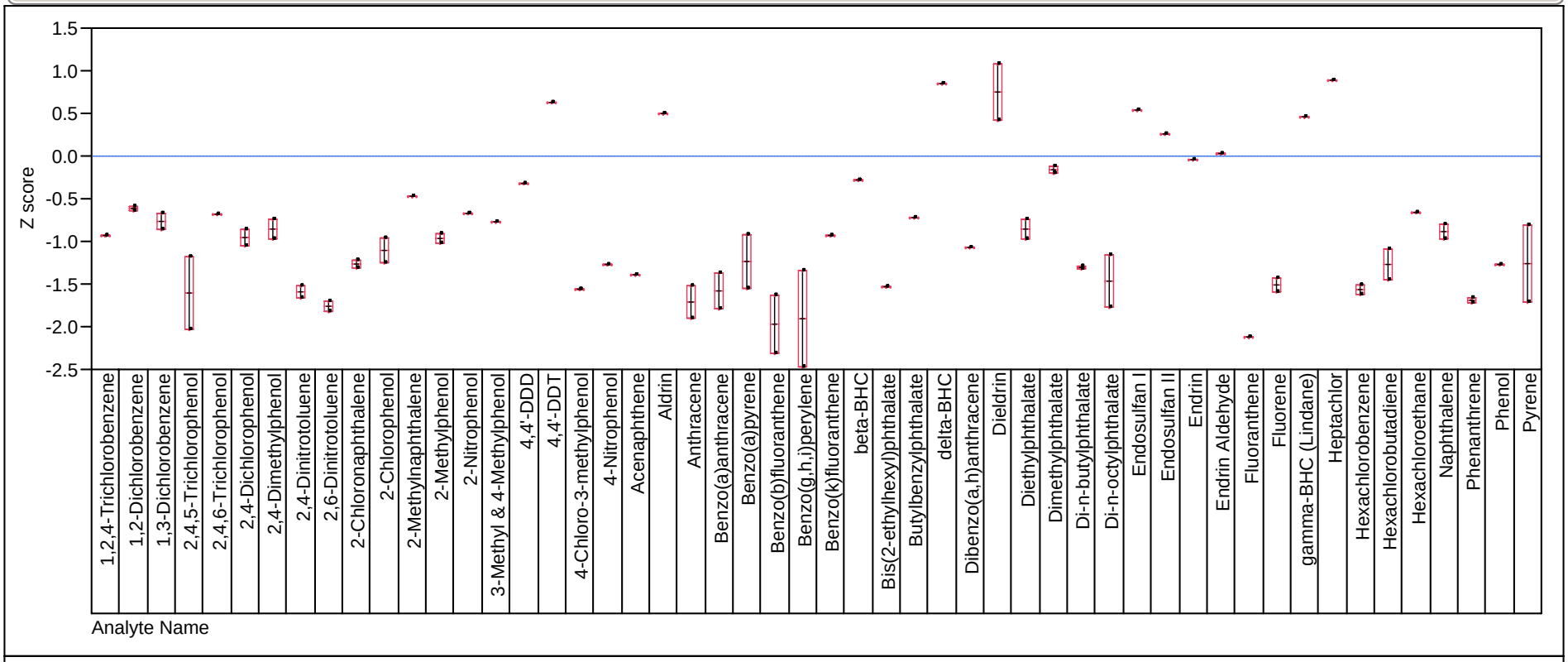
Variability Chart for Z score

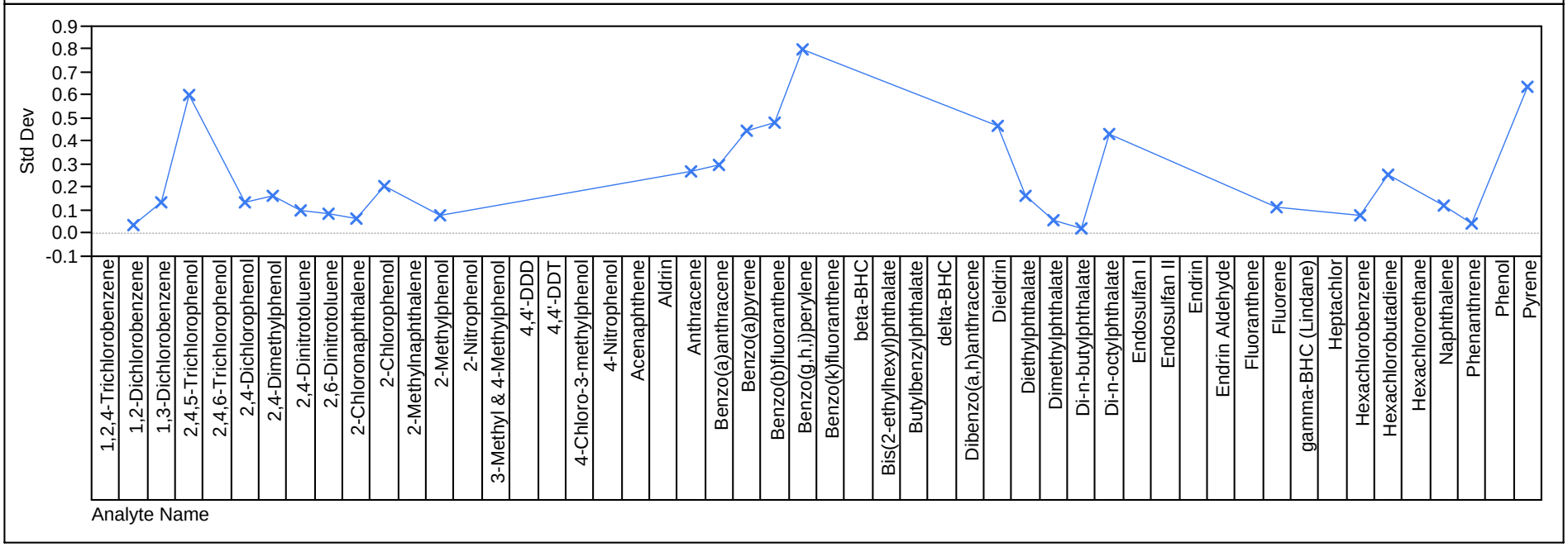




Variability Gauge Lab Code=ASHL01

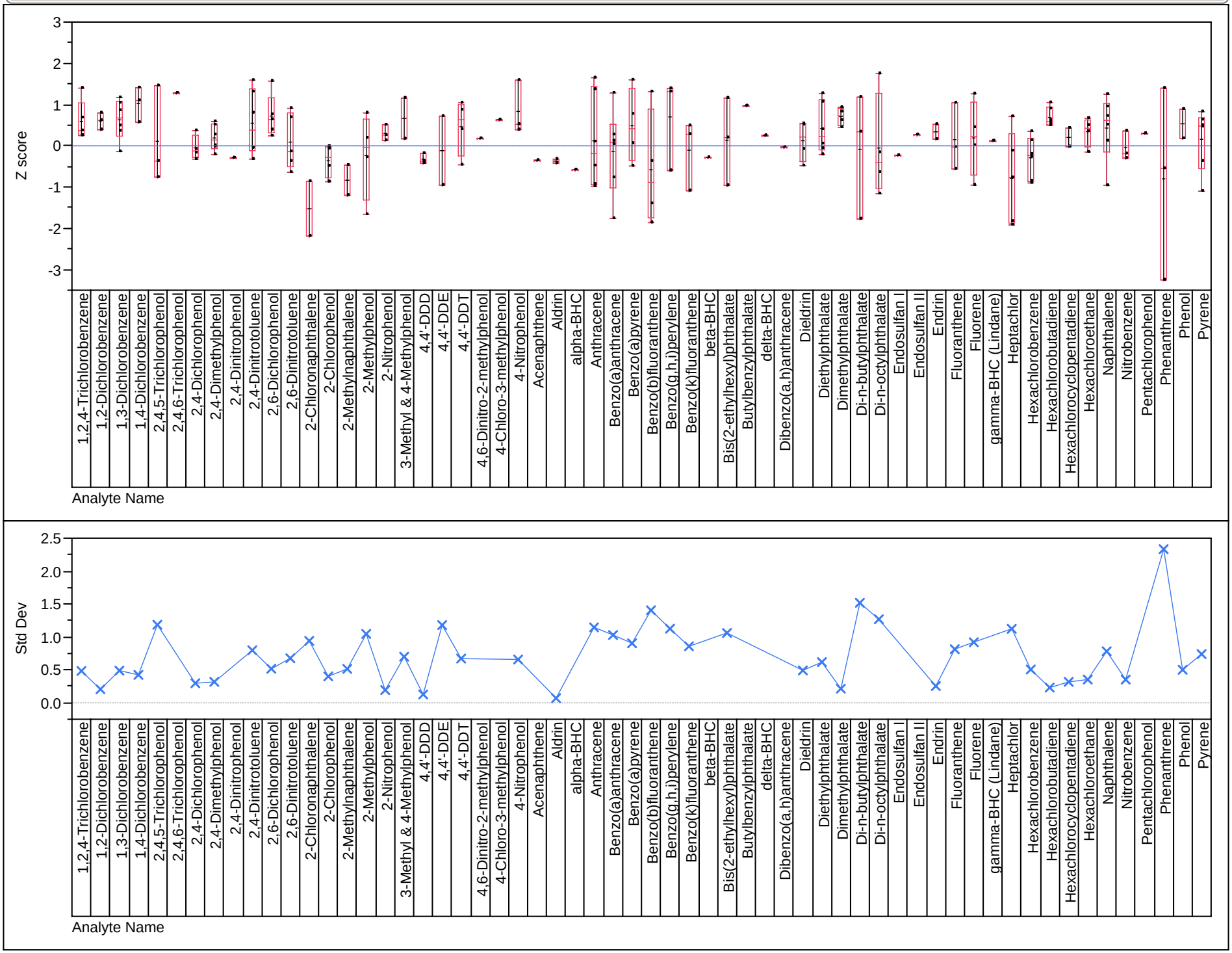
Variability Chart for Z score





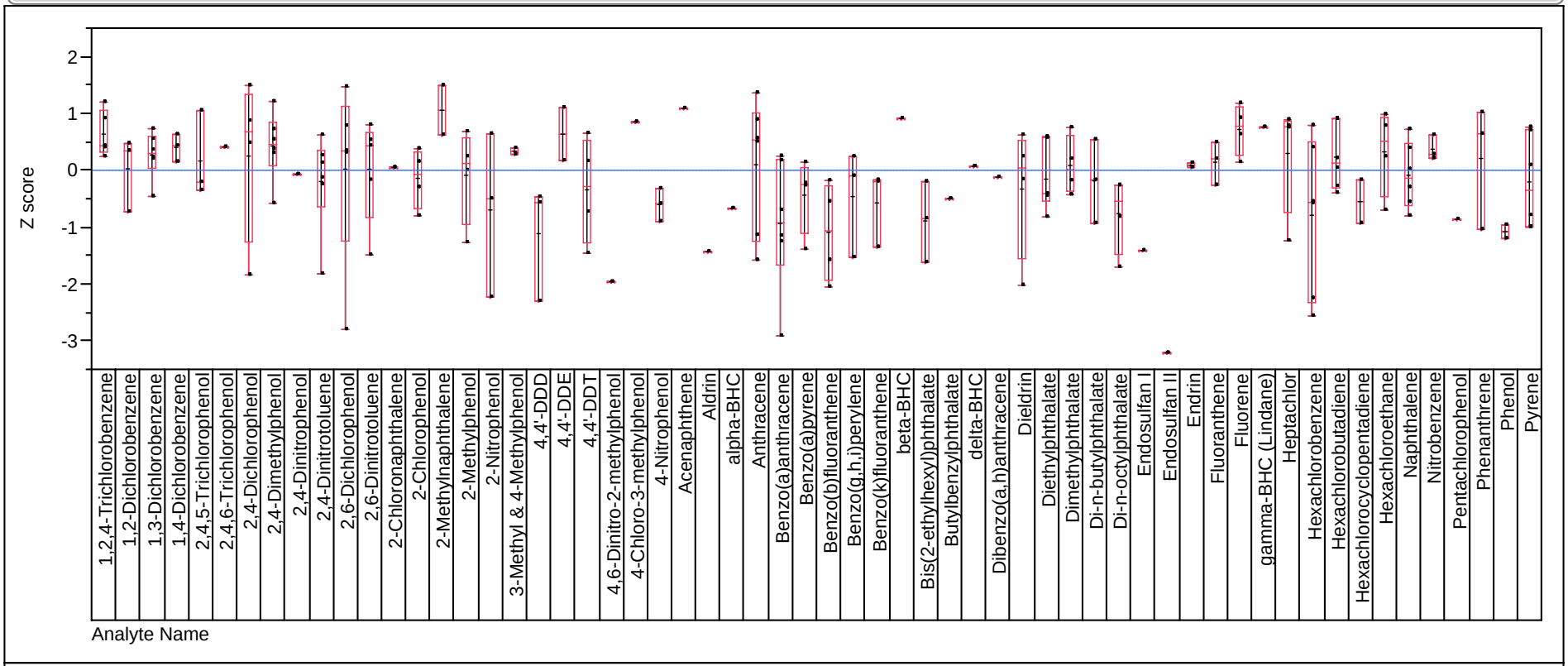
Variability Gauge Lab Code=AY1201

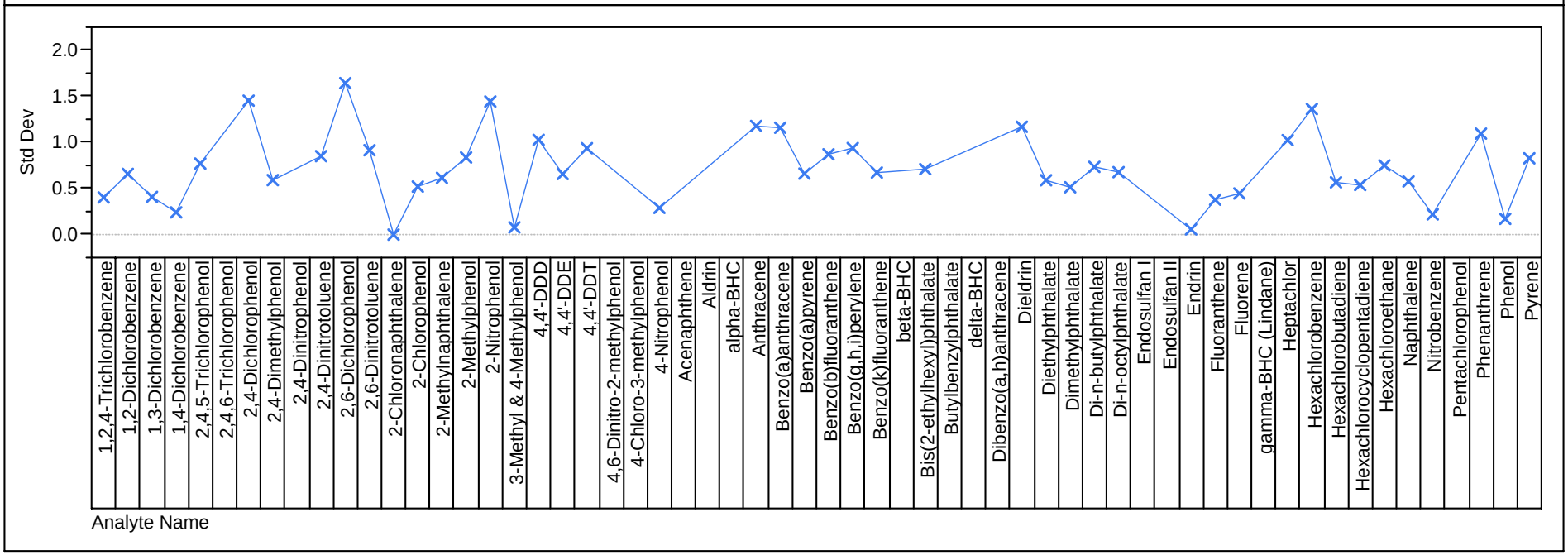
Variability Chart for Z score



Variability Gauge Lab Code=BCLI01

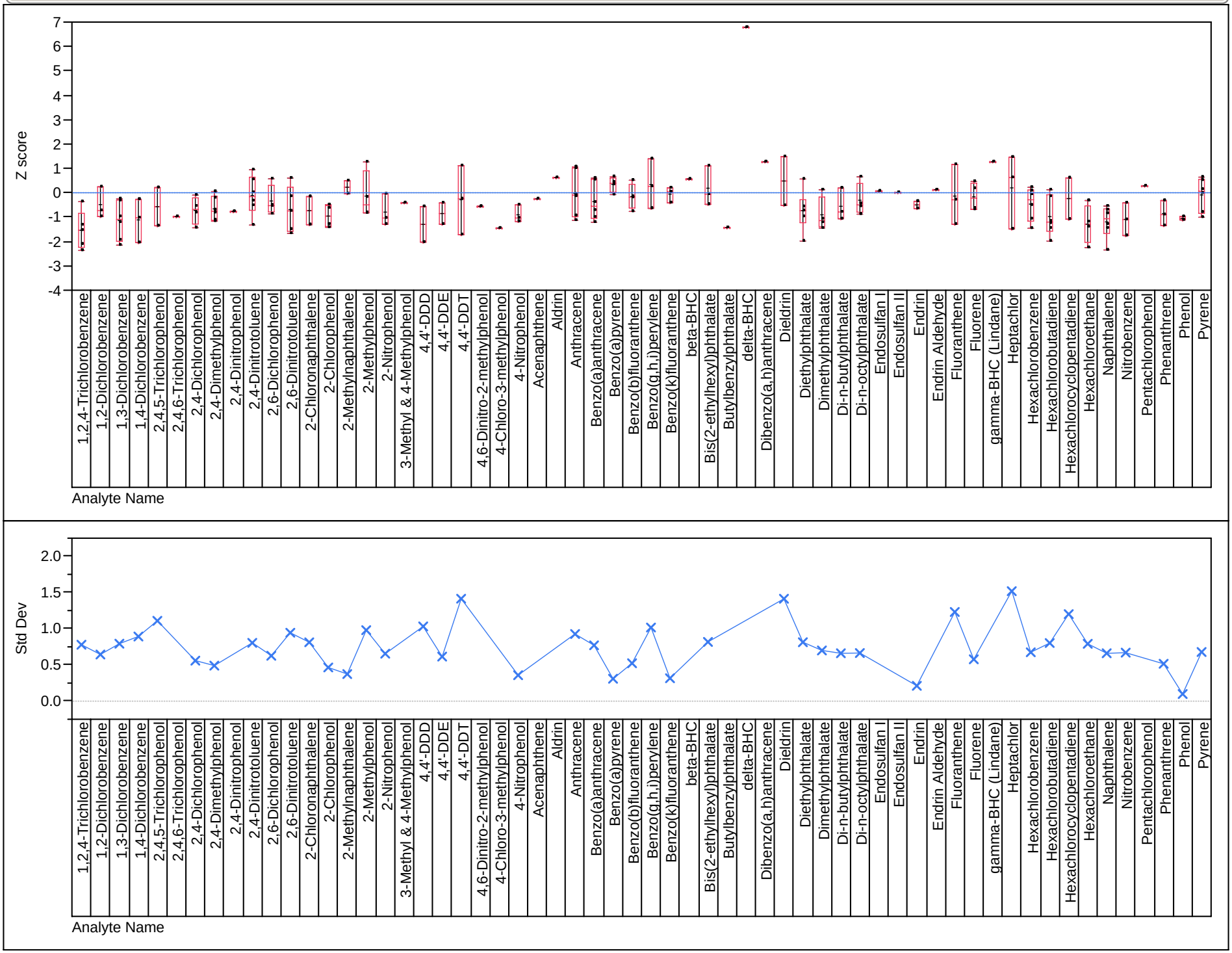
Variability Chart for Z score





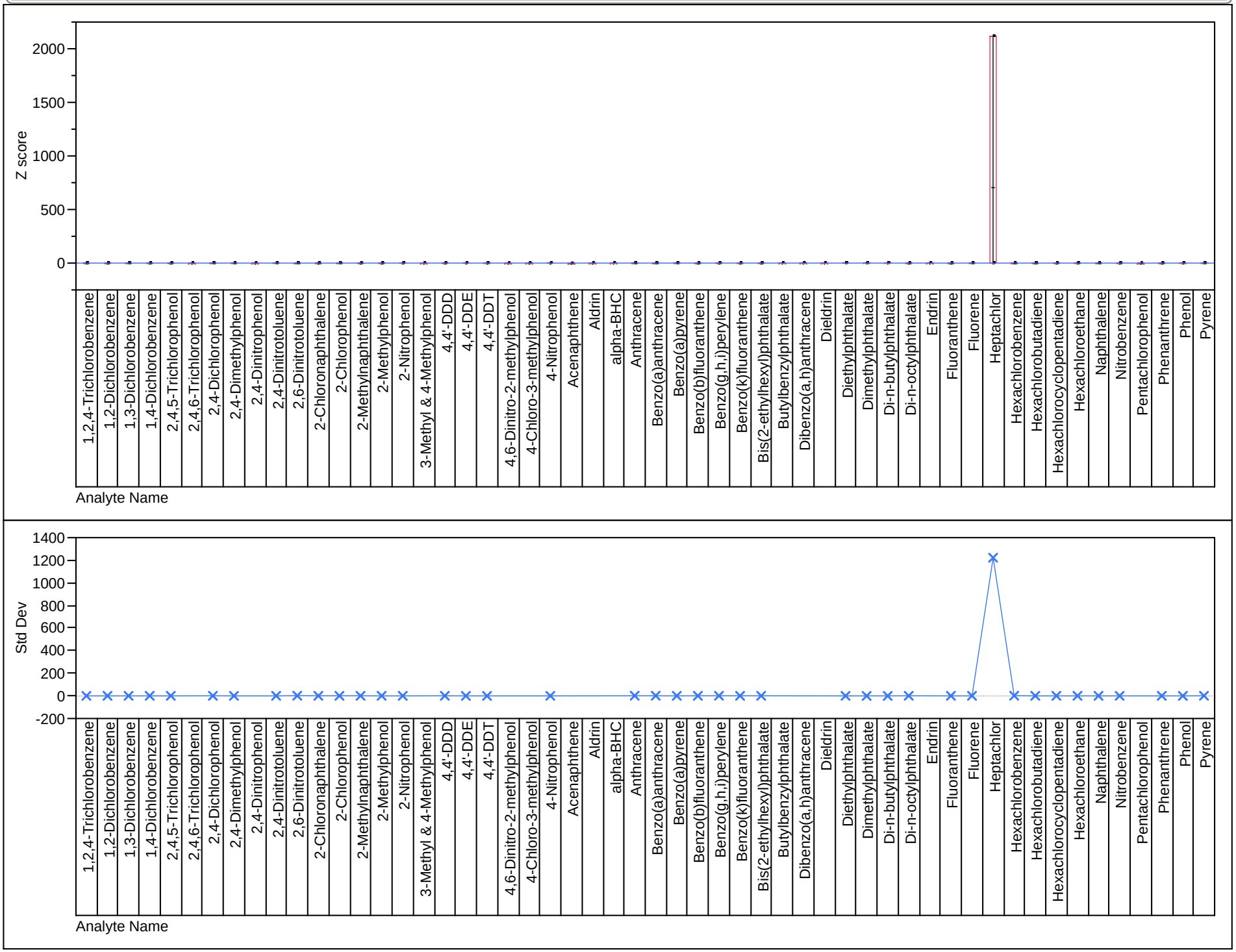
Variability Gauge Lab Code=BNEL01

Variability Chart for Z score



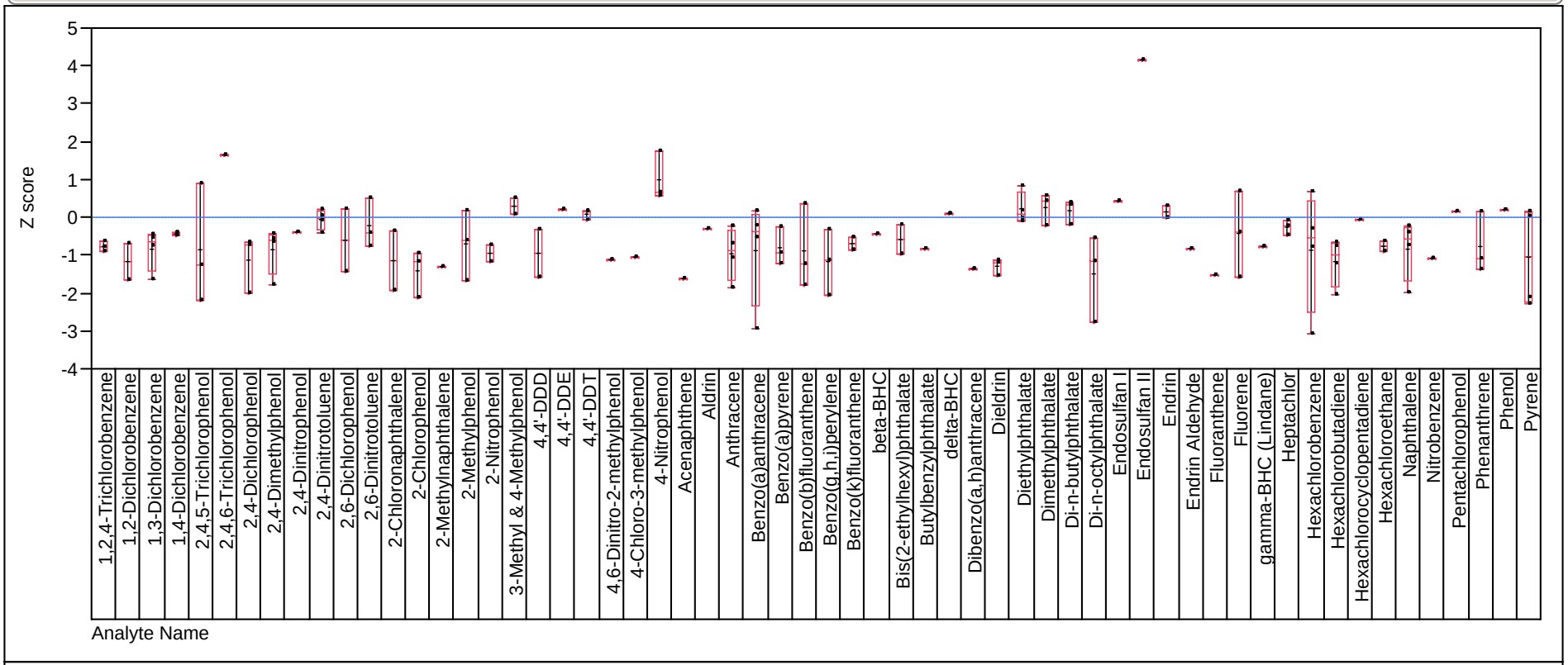
Variability Gauge Lab Code=CALN01

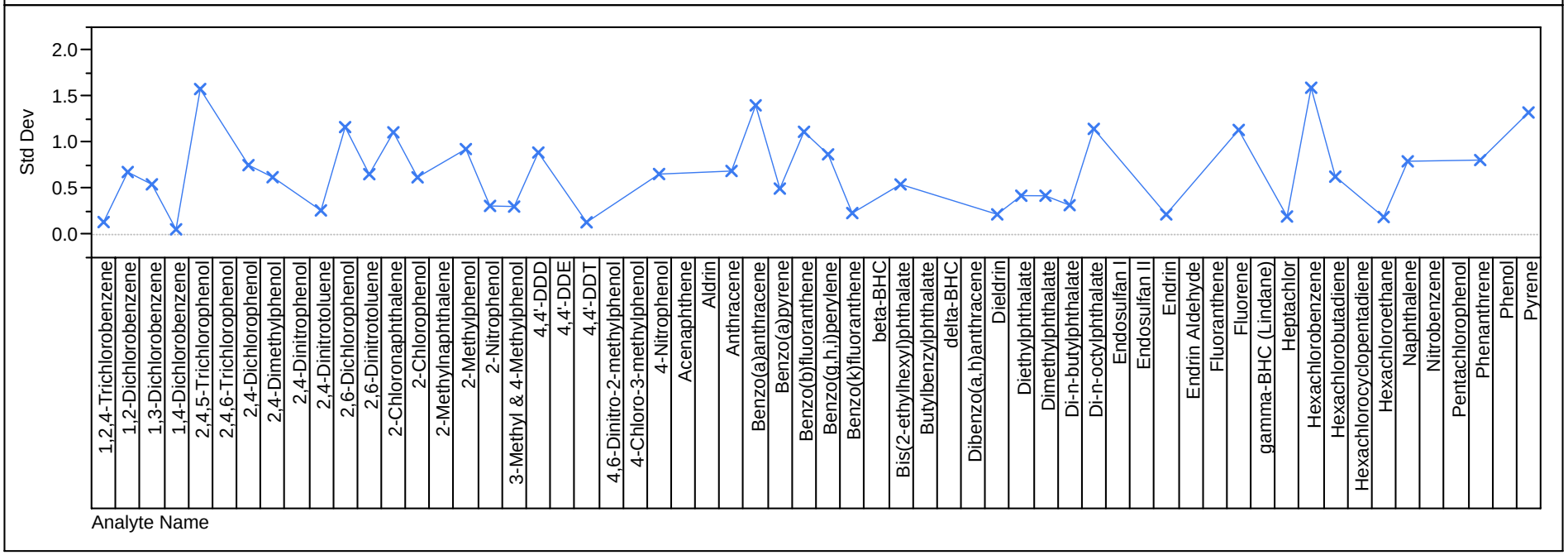
Variability Chart for Z score



Variability Gauge Lab Code=CDHS01

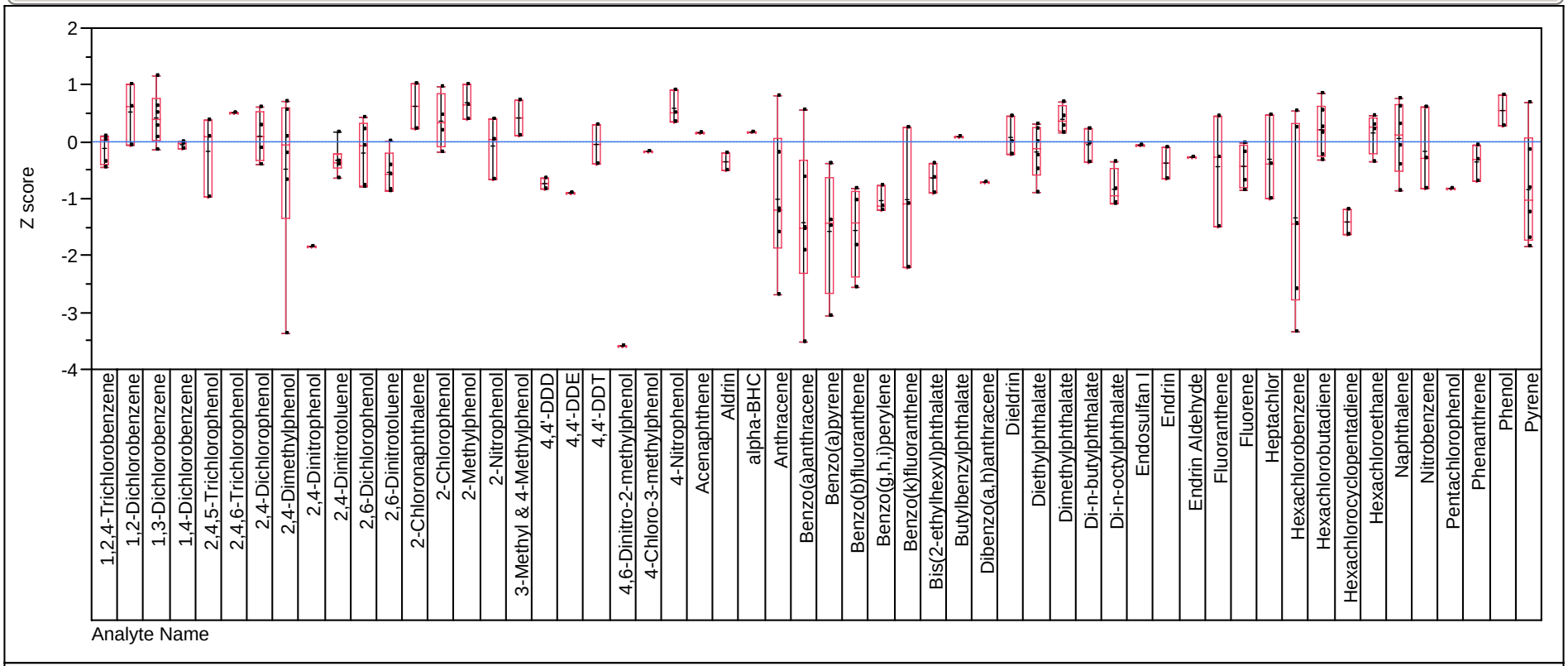
Variability Chart for Z score

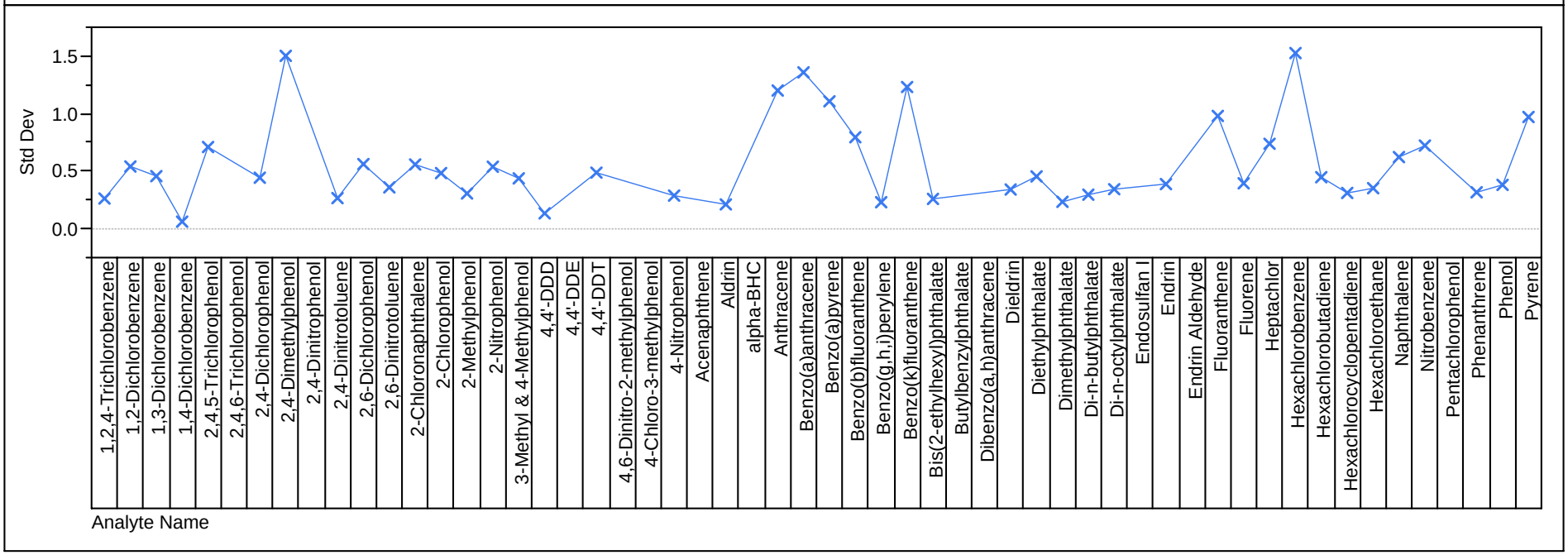




Variability Gauge Lab Code=CORE02

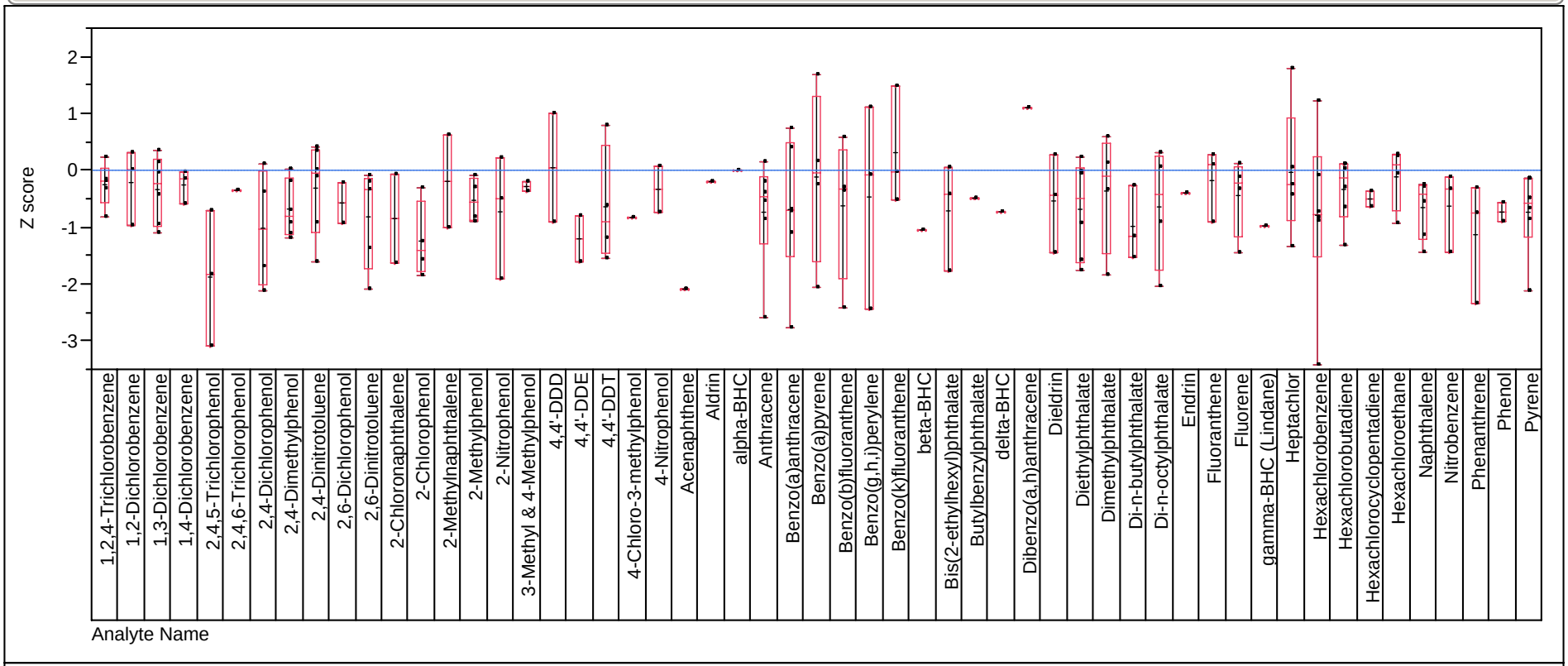
Variability Chart for Z score

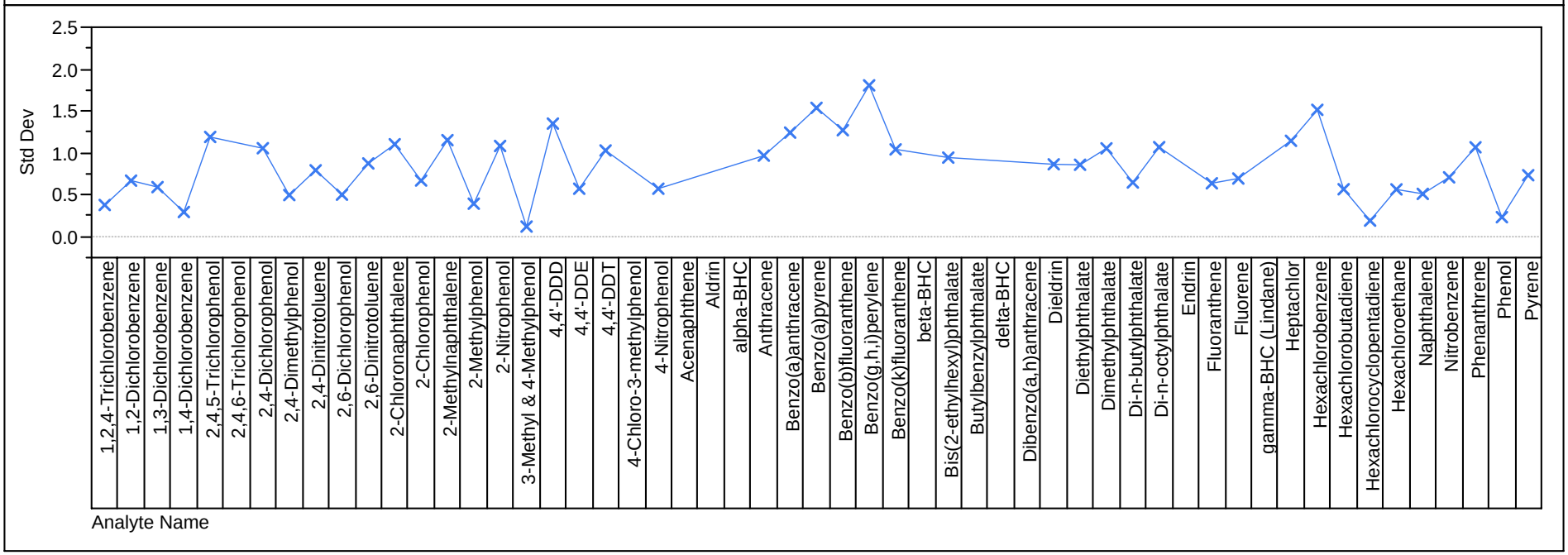




Variability Gauge Lab Code=DAFI01

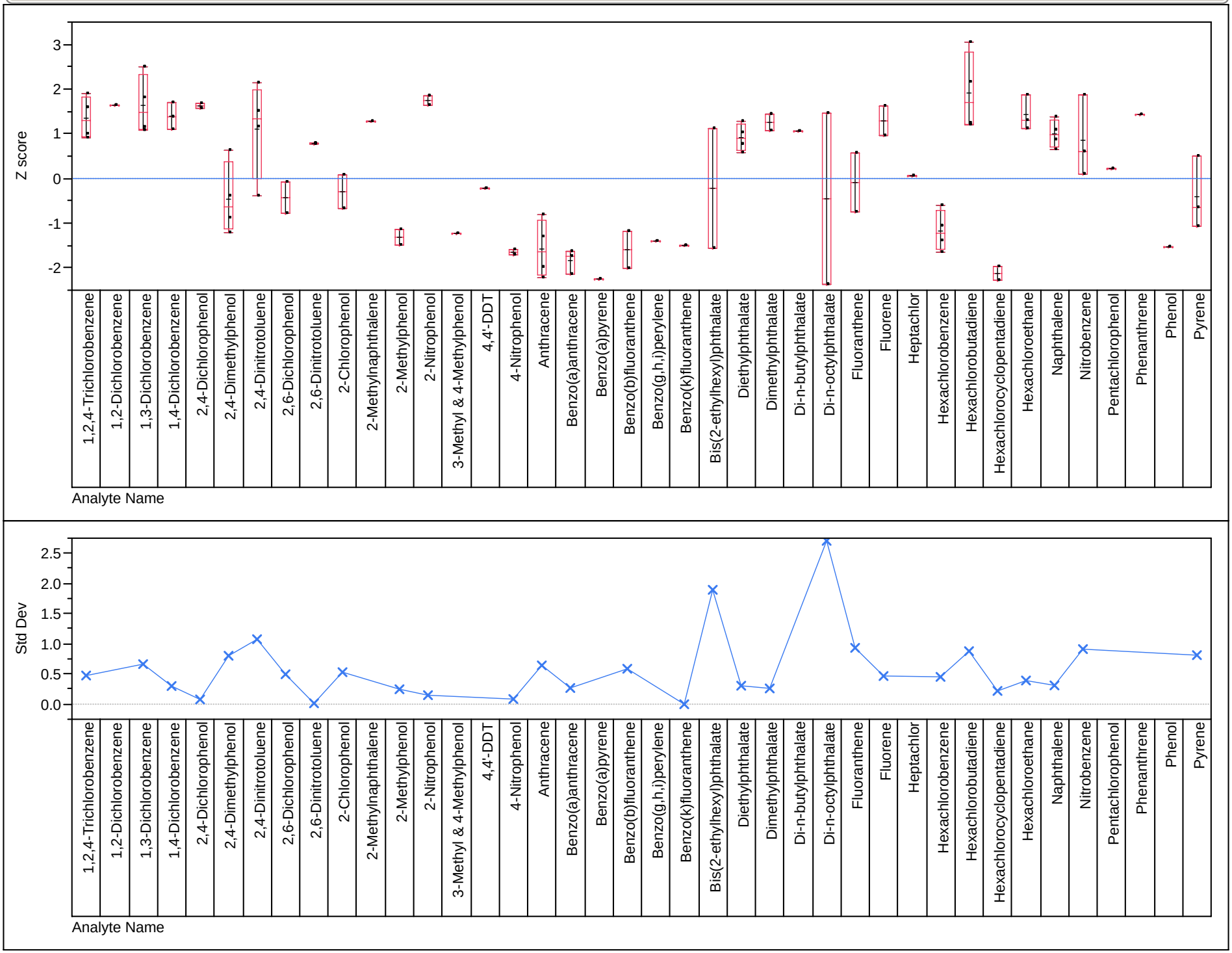
Variability Chart for Z score





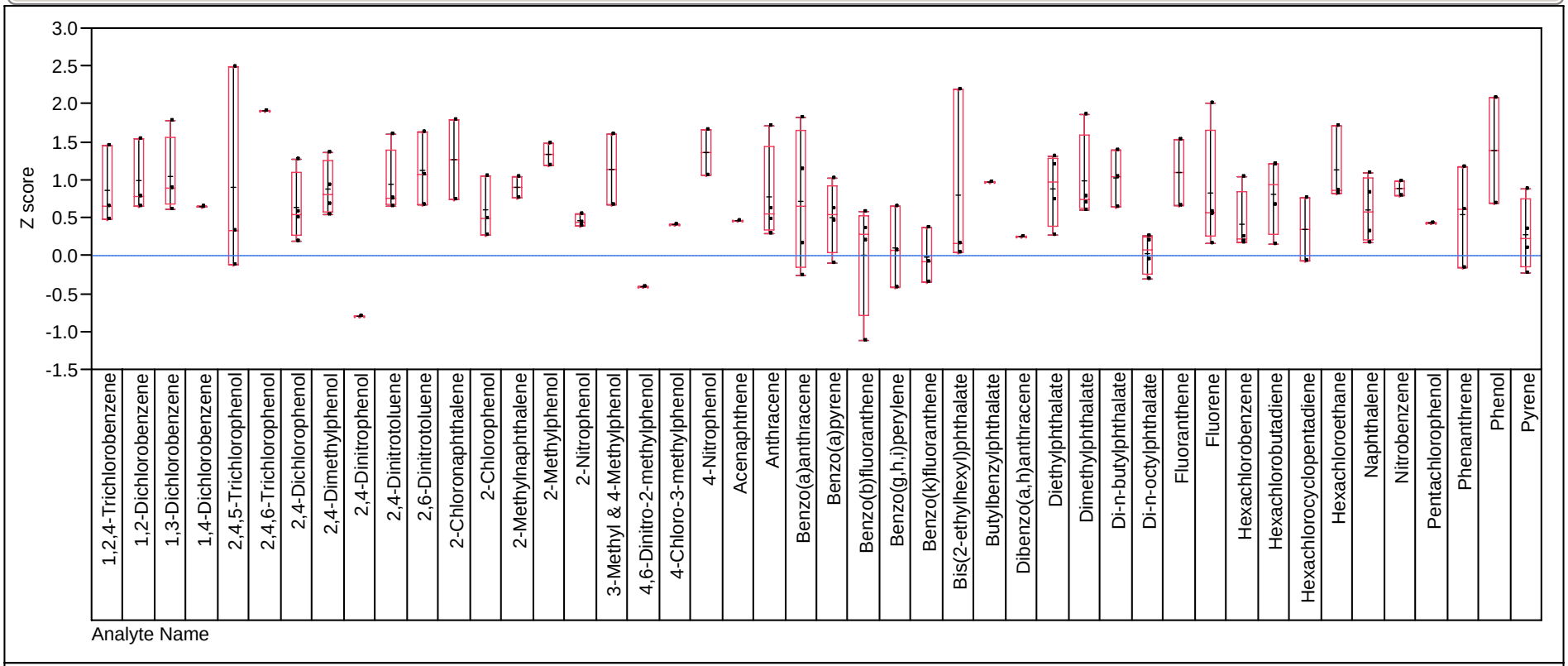
Variability Gauge Lab Code=DPAL01

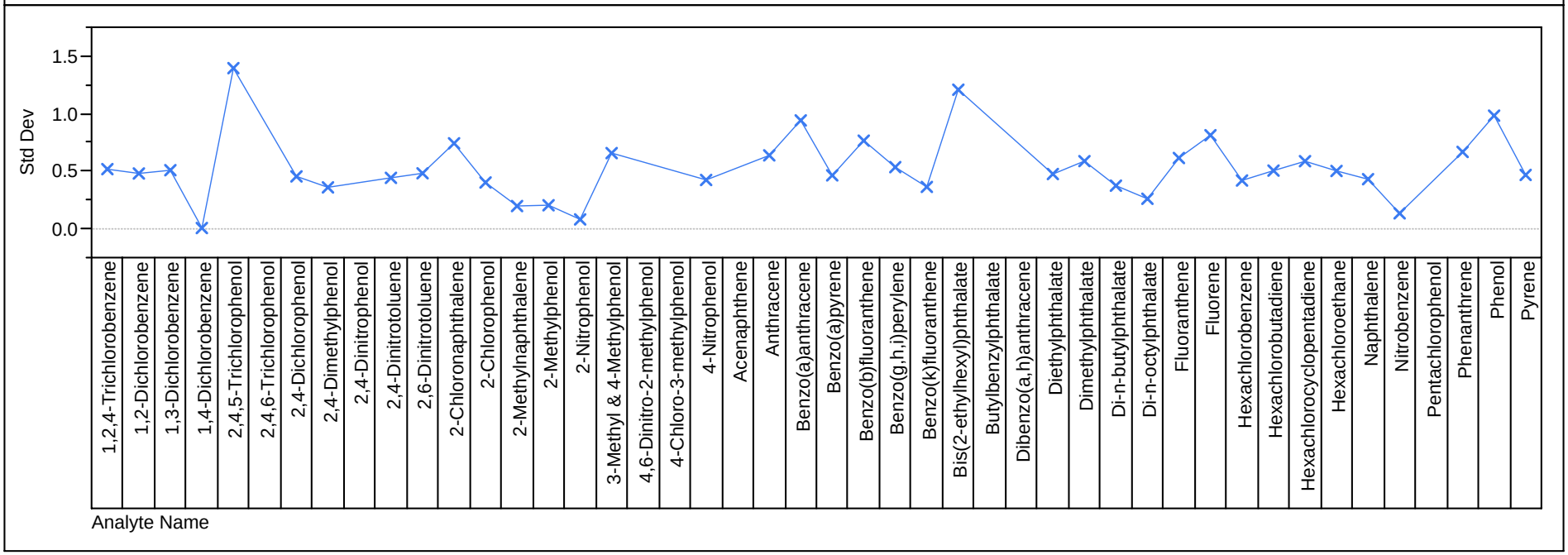
Variability Chart for Z score



Variability Gauge Lab Code=EMAX01

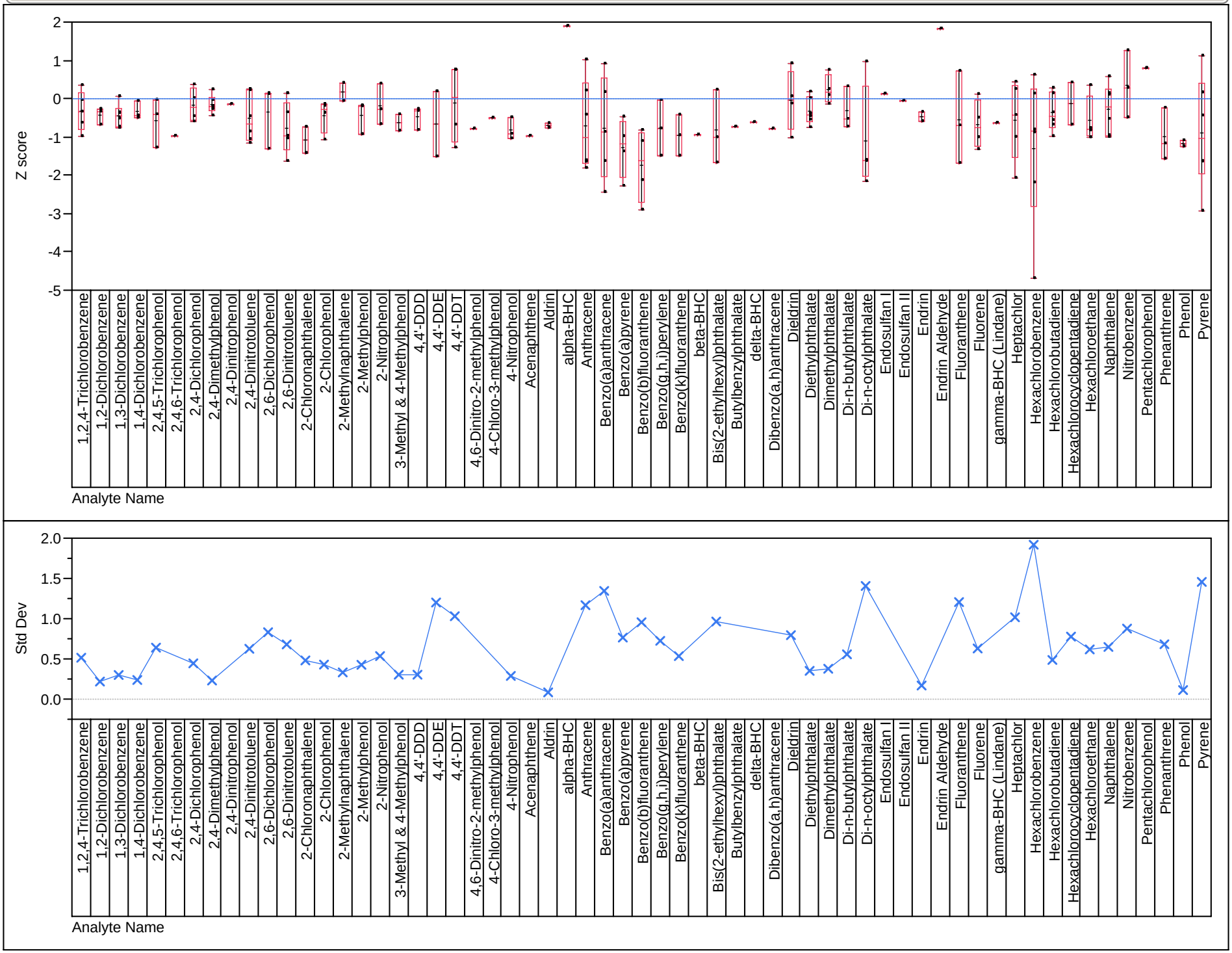
Variability Chart for Z score





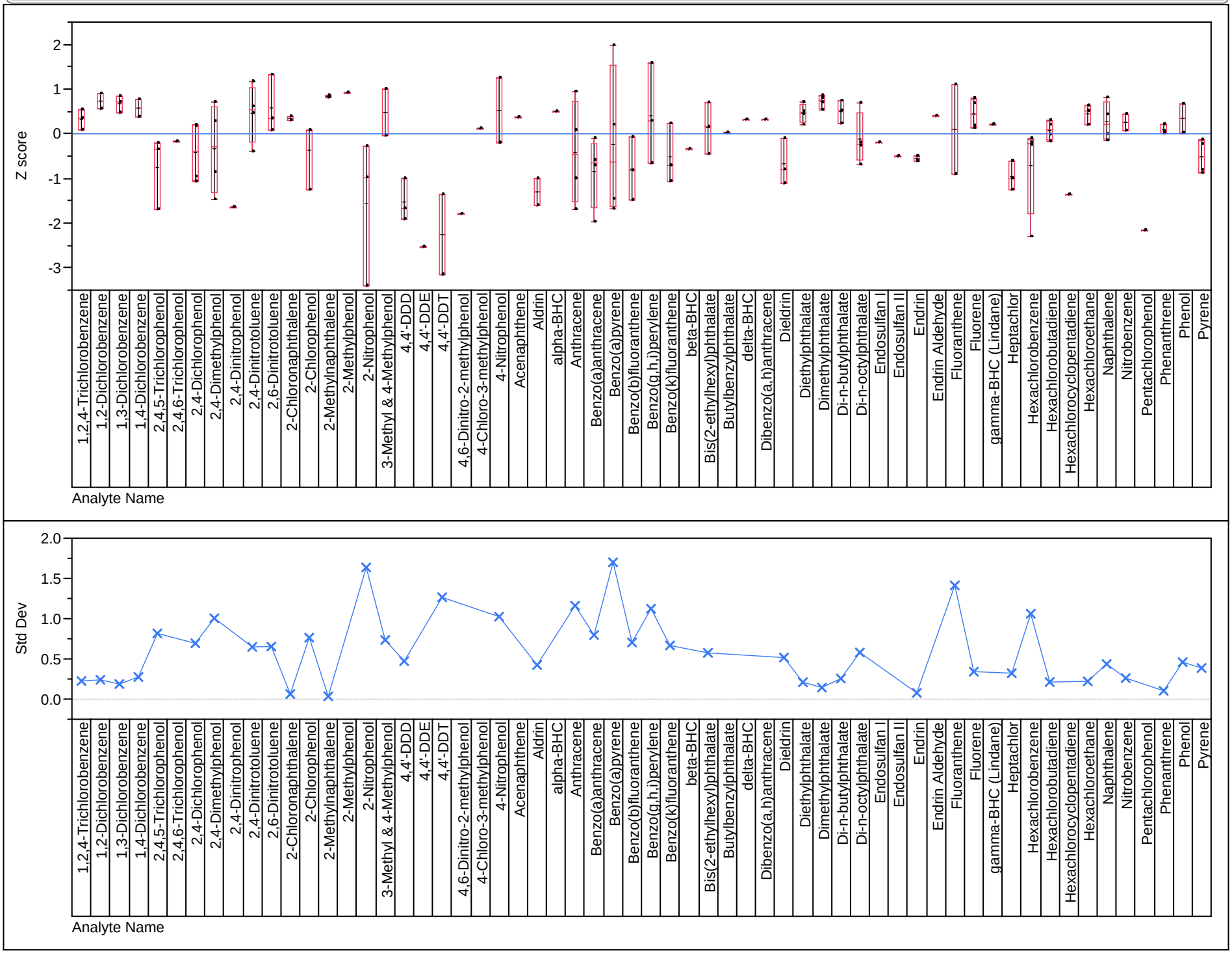
Variability Gauge Lab Code=GENE01

Variability Chart for Z score



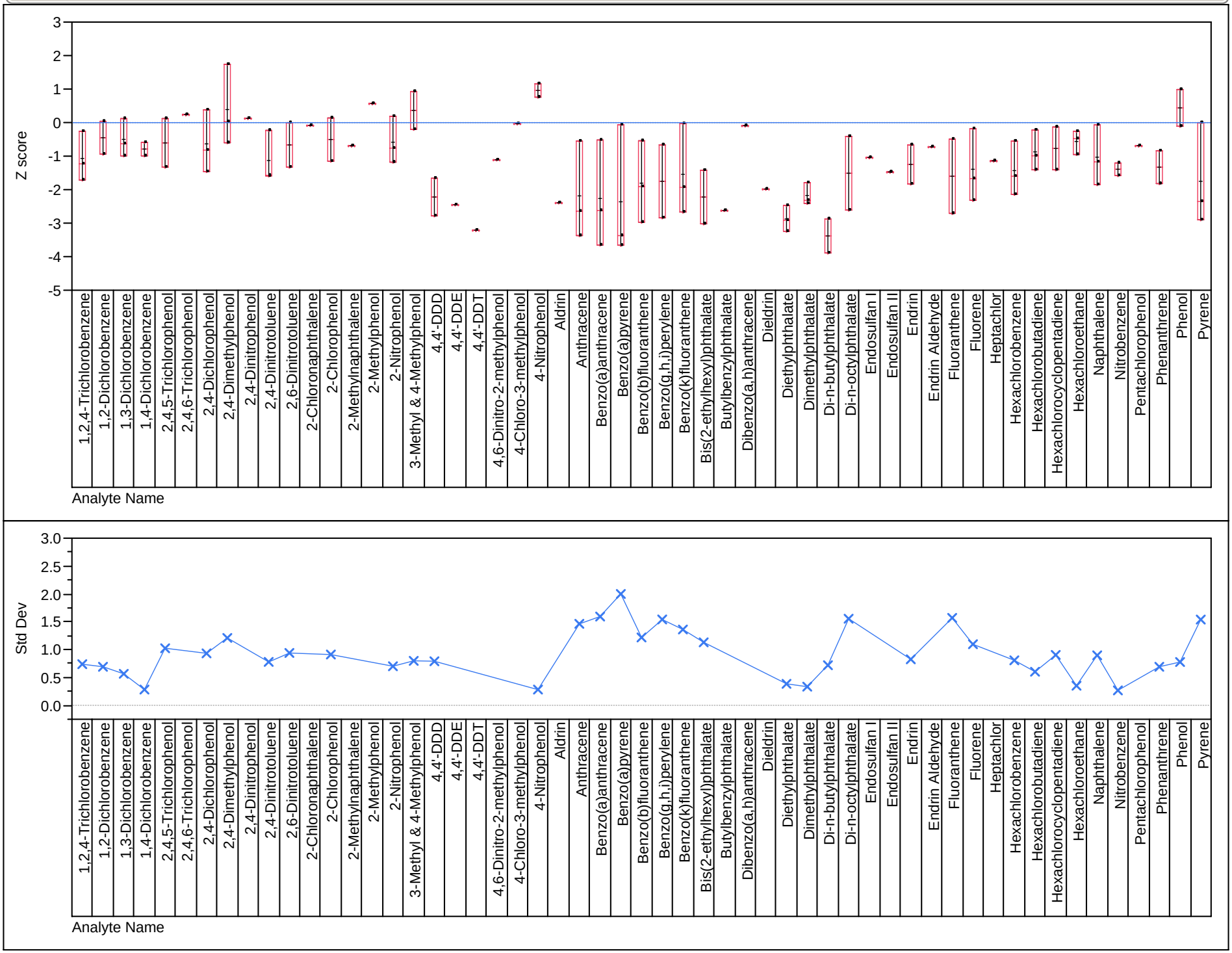
Variability Gauge Lab Code=GPLP01

Variability Chart for Z score



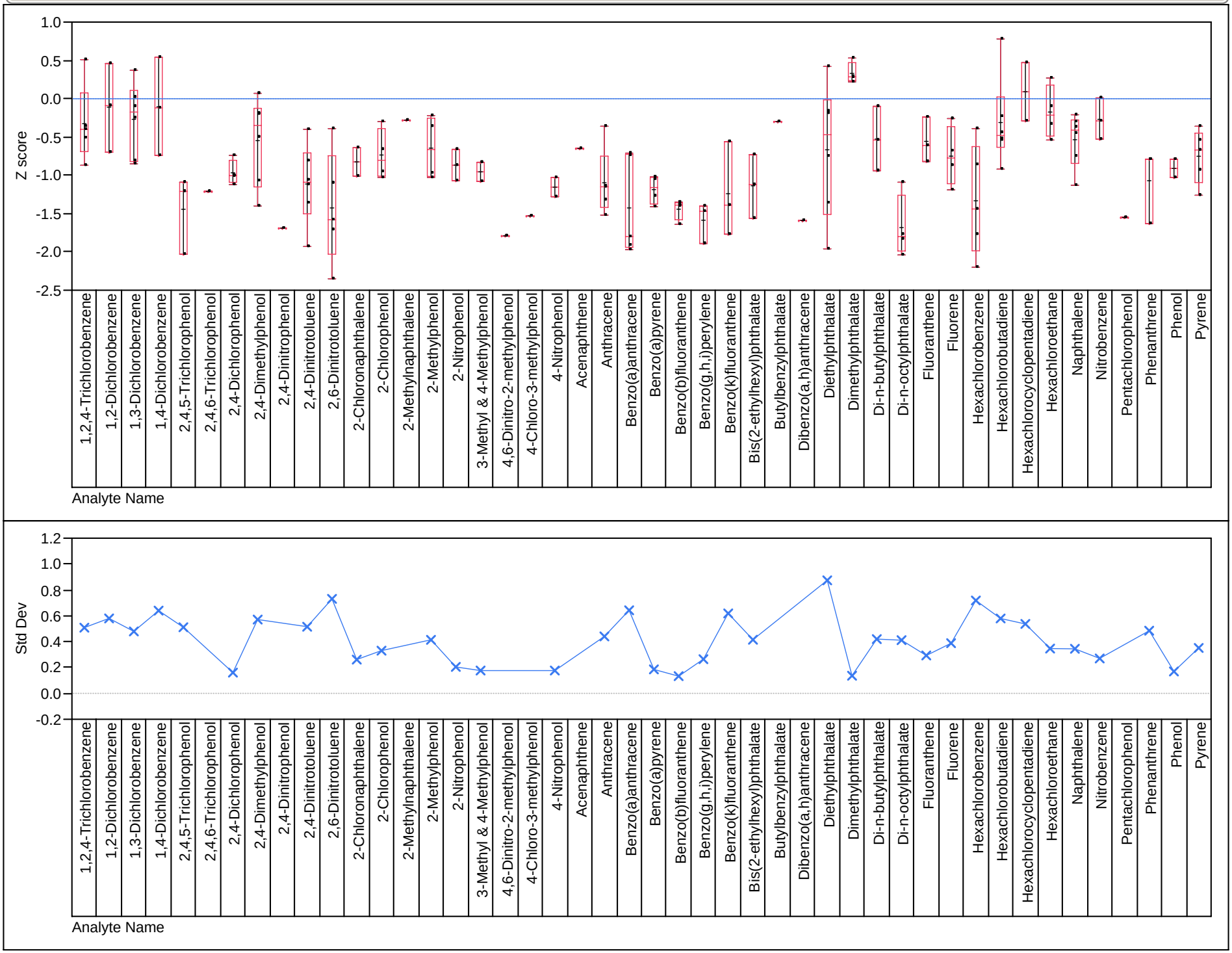
Variability Gauge Lab Code=GROW01

Variability Chart for Z score



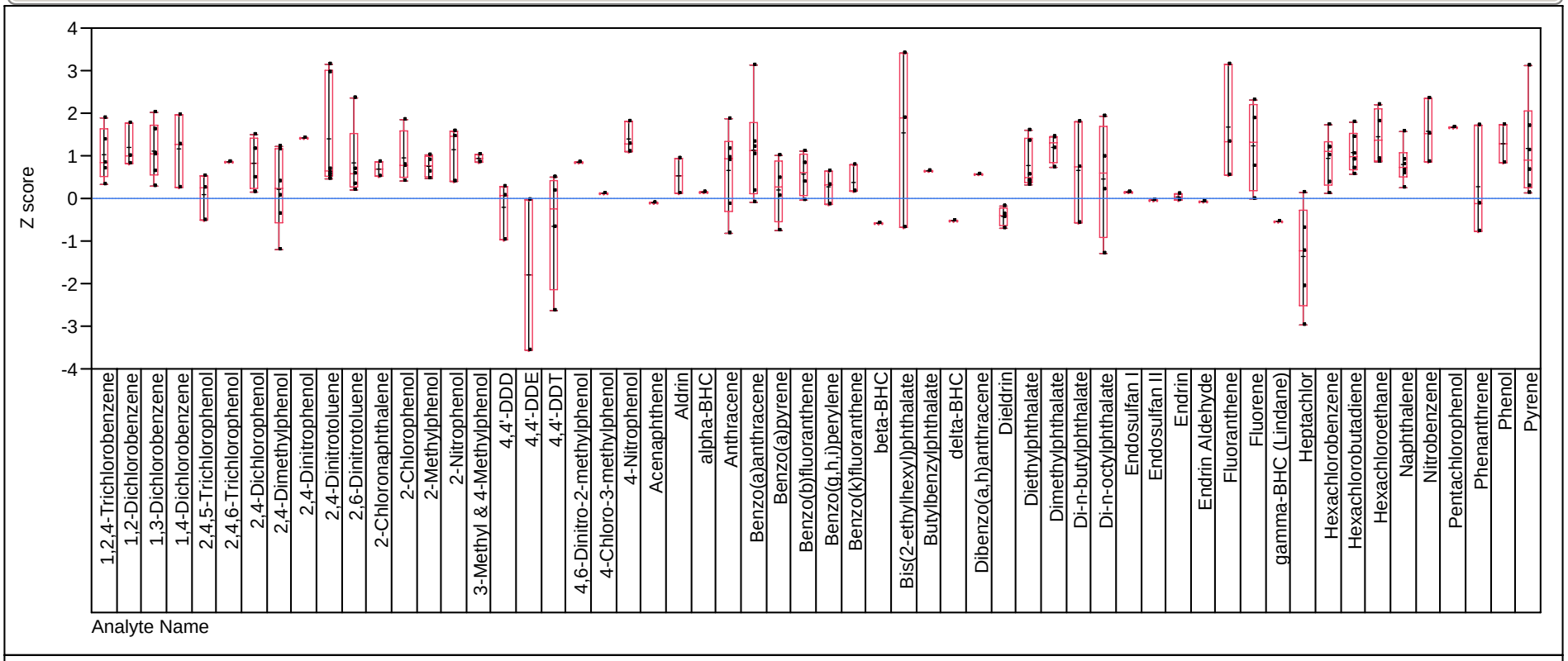
Variability Gauge Lab Code=LOCK01

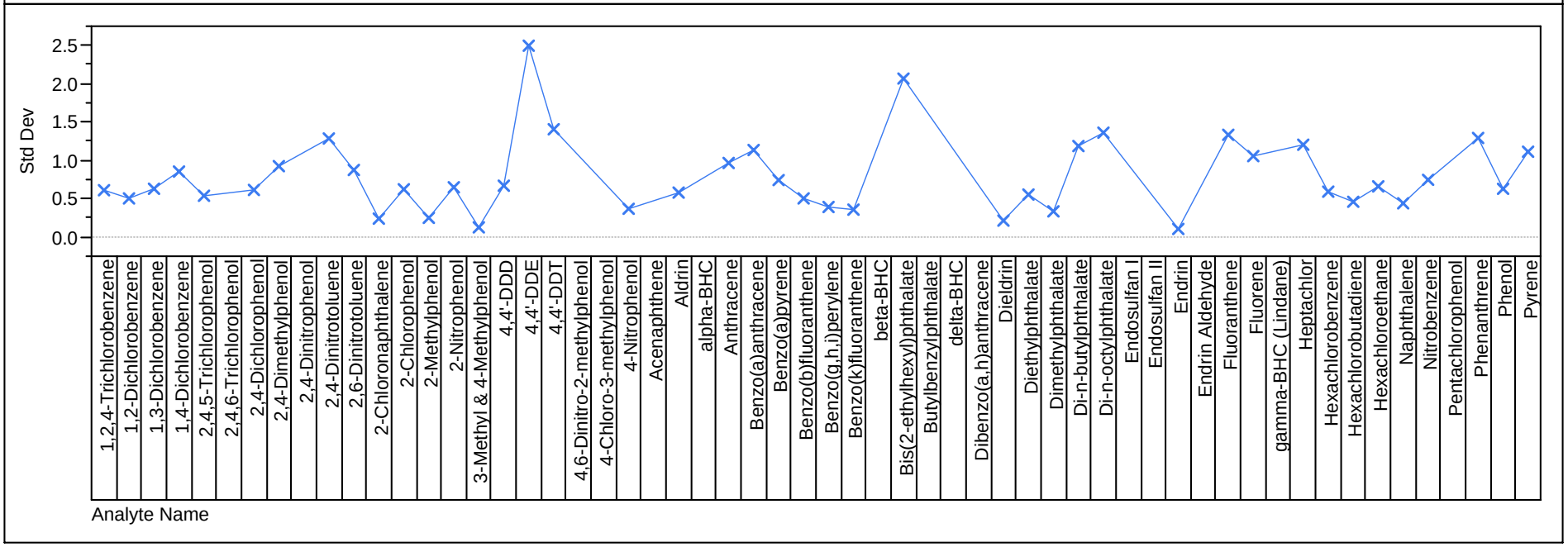
Variability Chart for Z score



Variability Gauge Lab Code=MART01

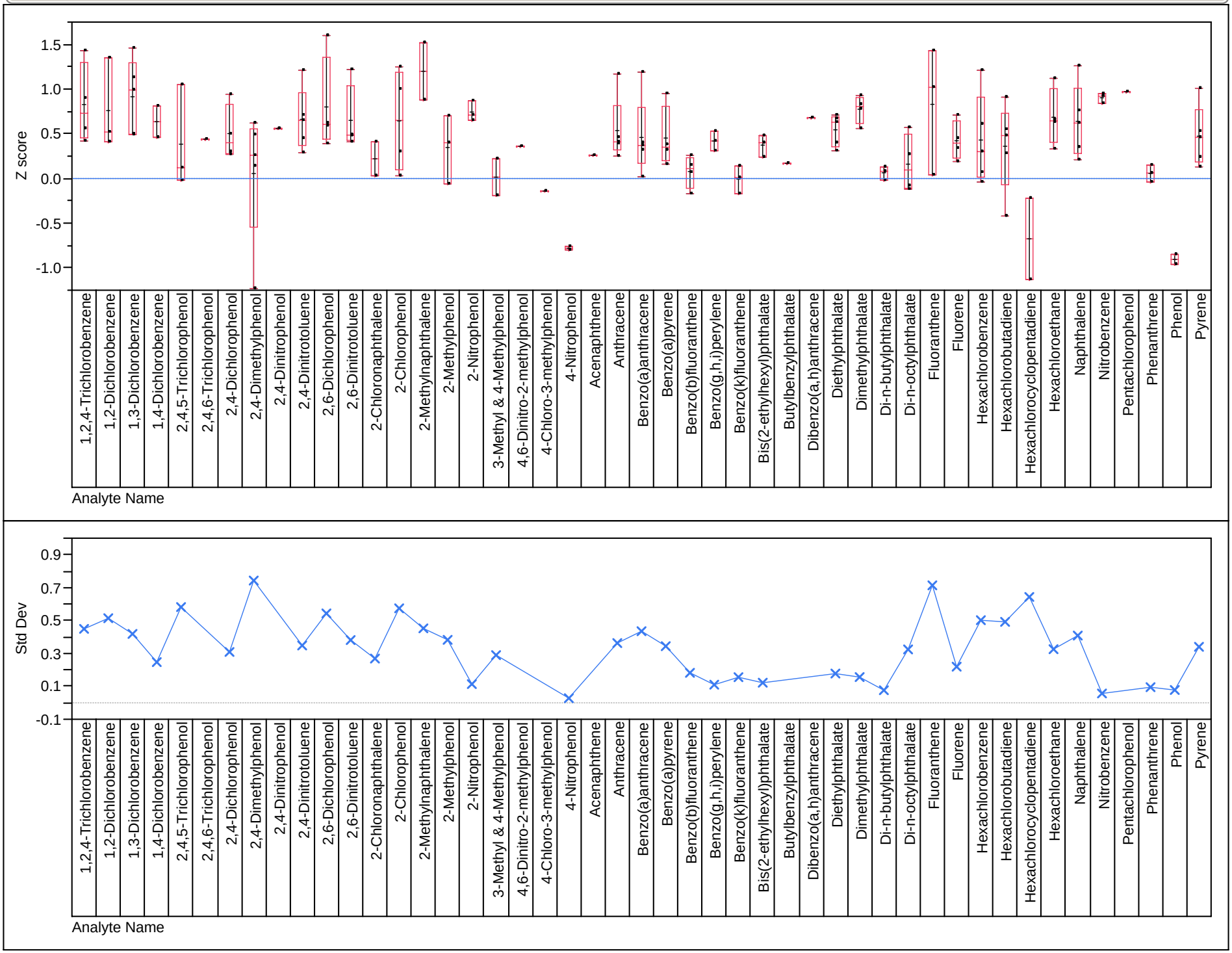
Variability Chart for Z score





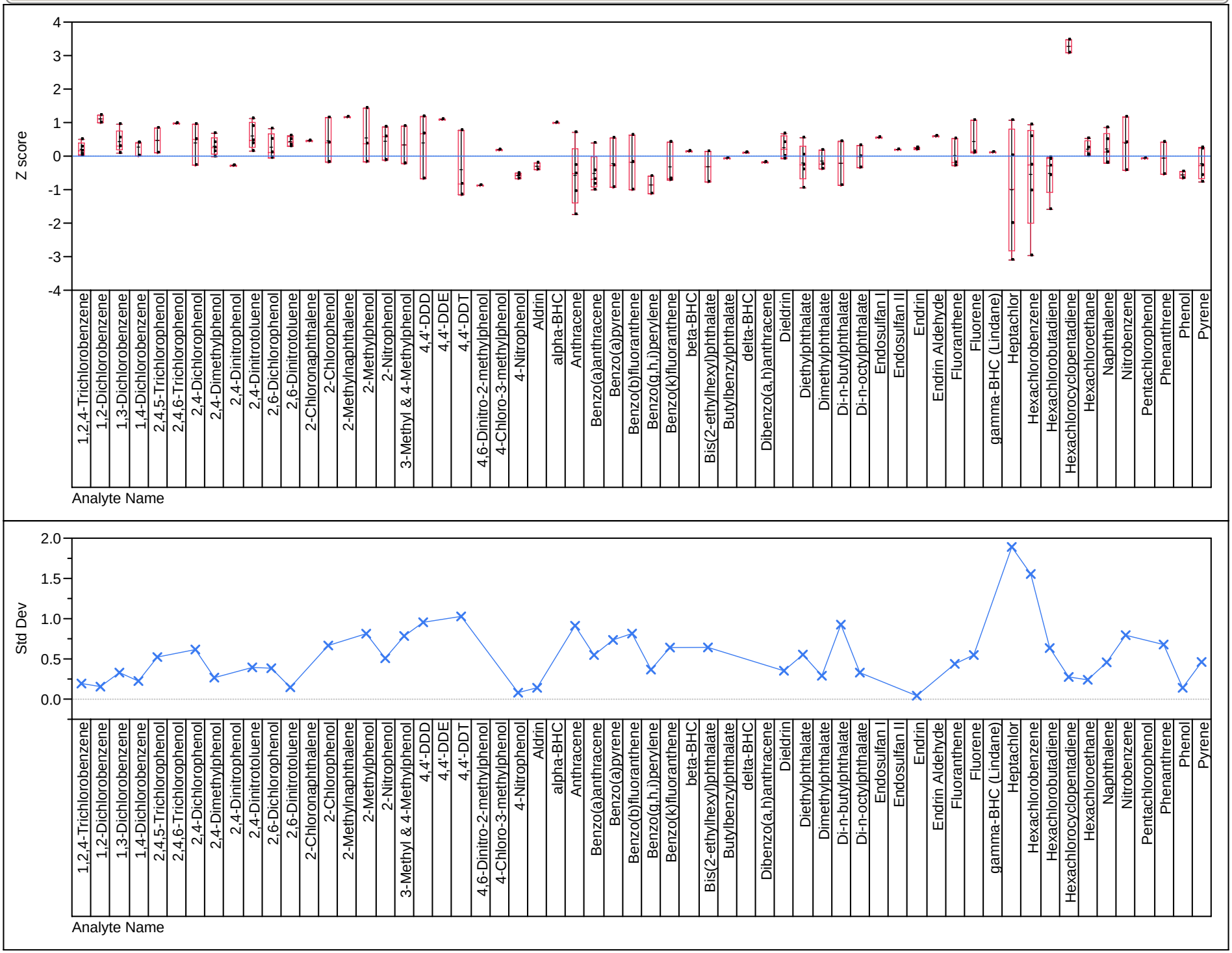
Variability Gauge Lab Code=MART02

Variability Chart for Z score



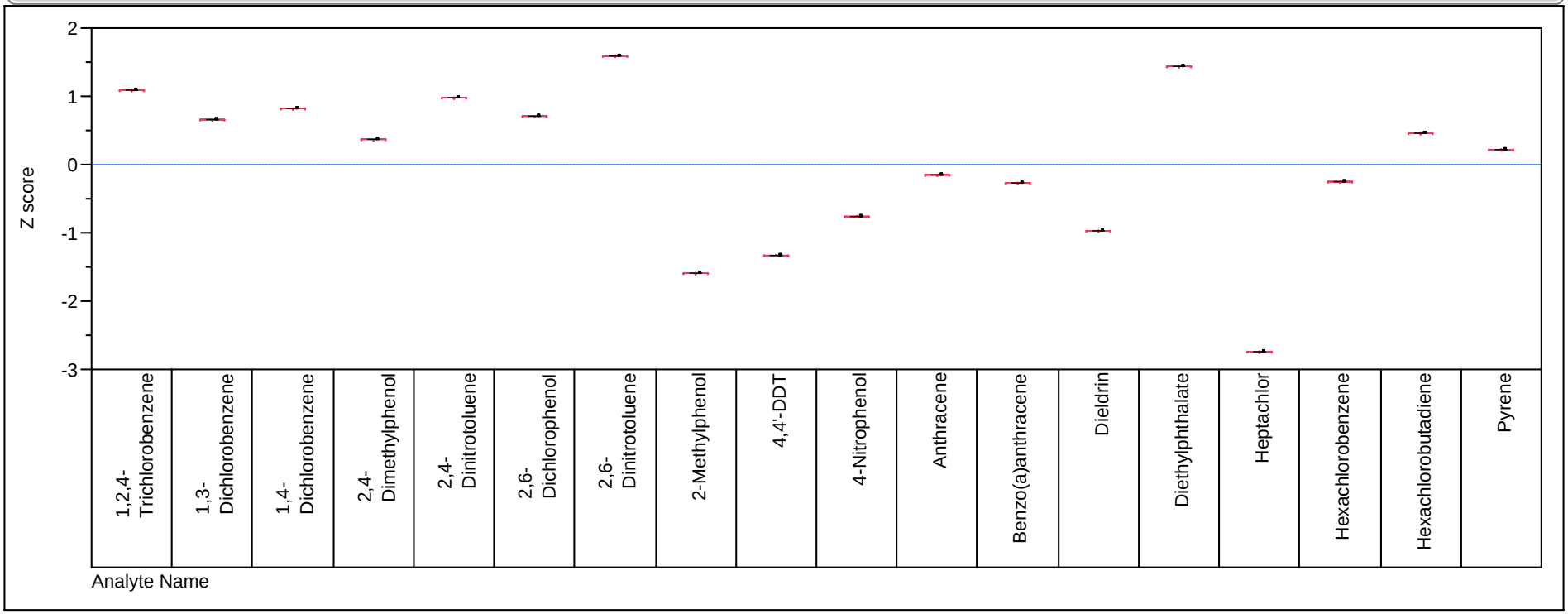
Variability Gauge Lab Code=NARL01

Variability Chart for Z score



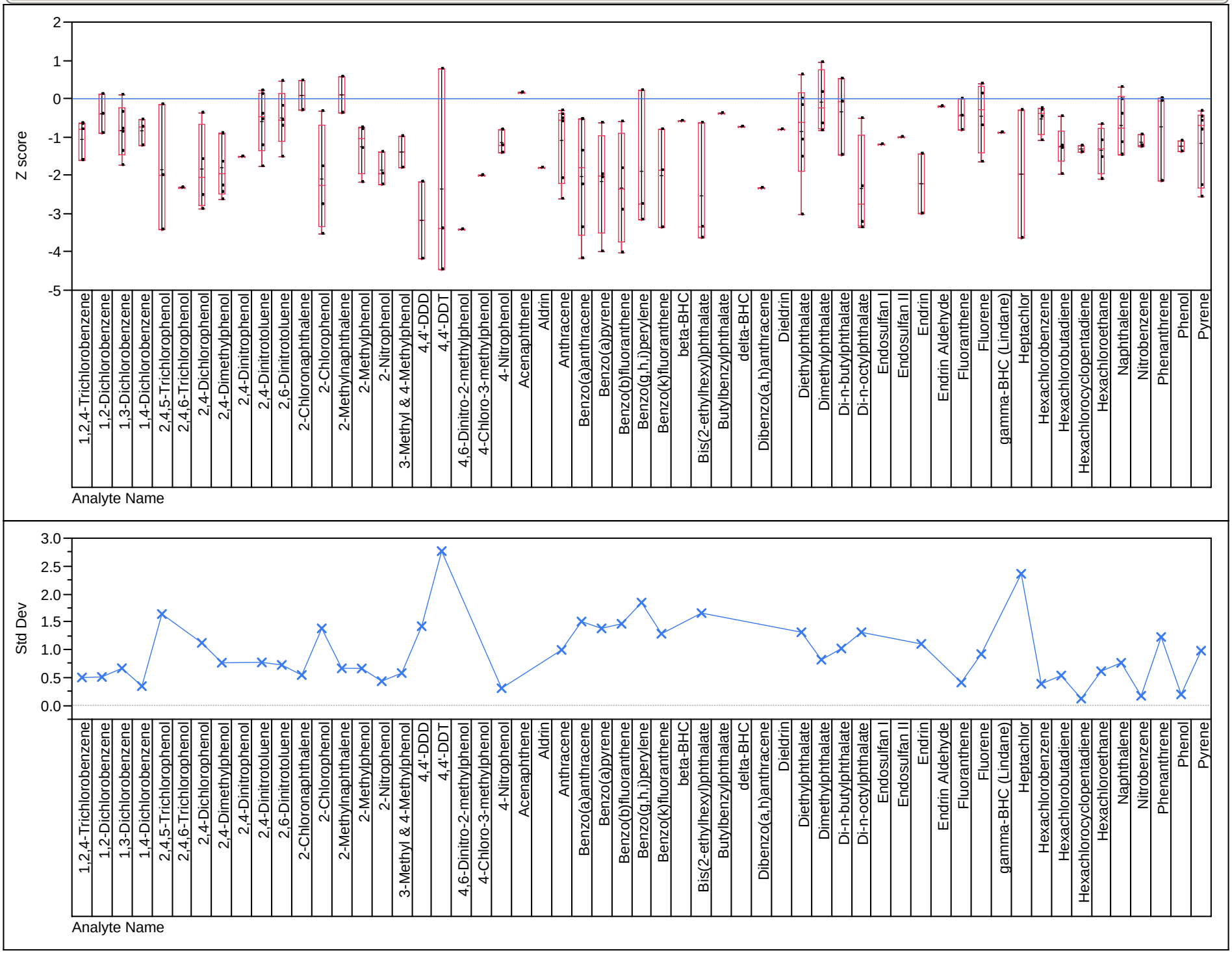
Variability Gauge Lab Code=NESI01

Variability Chart for Z score



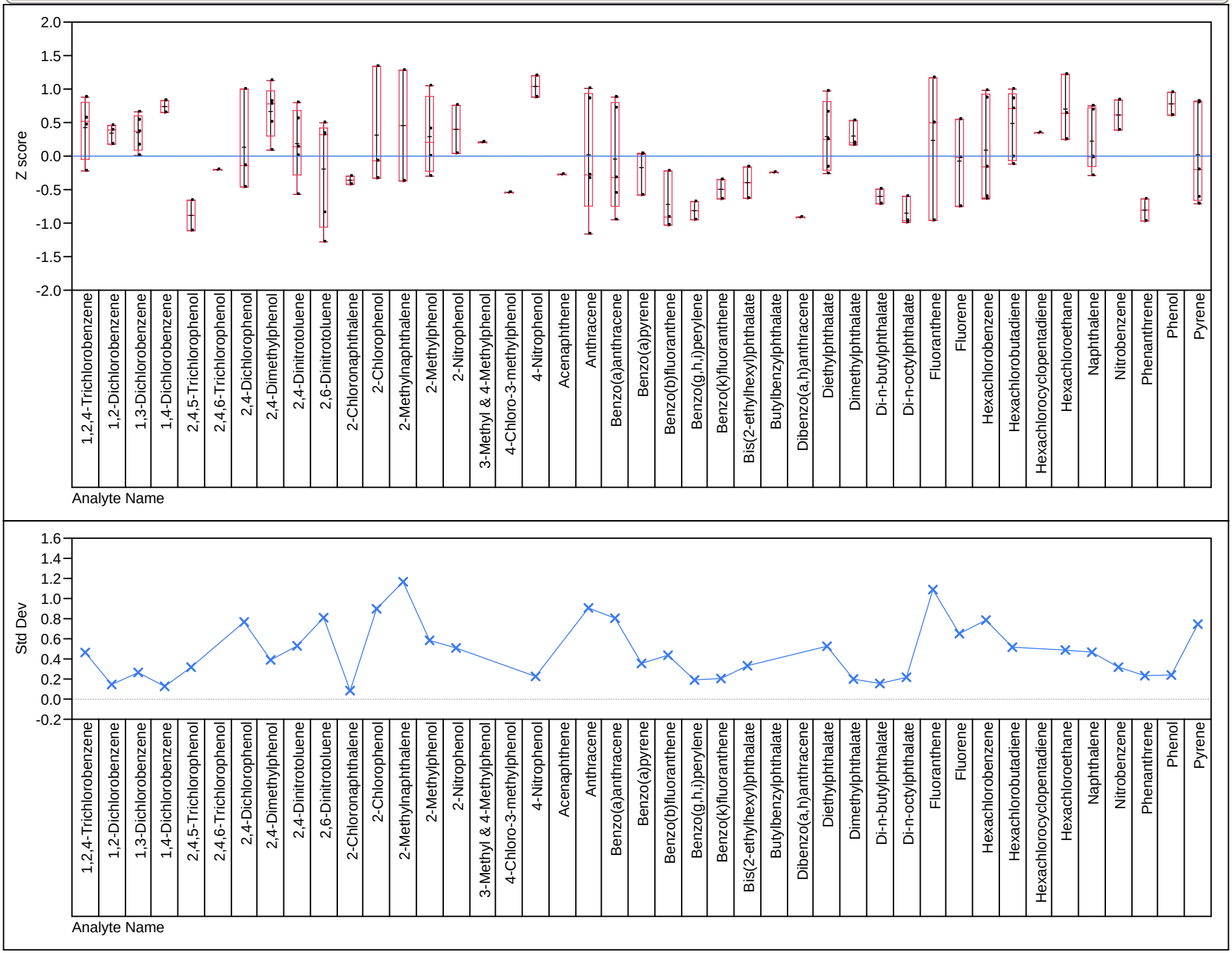
Variability Gauge Lab Code=NMLA01

Variability Chart for Z score



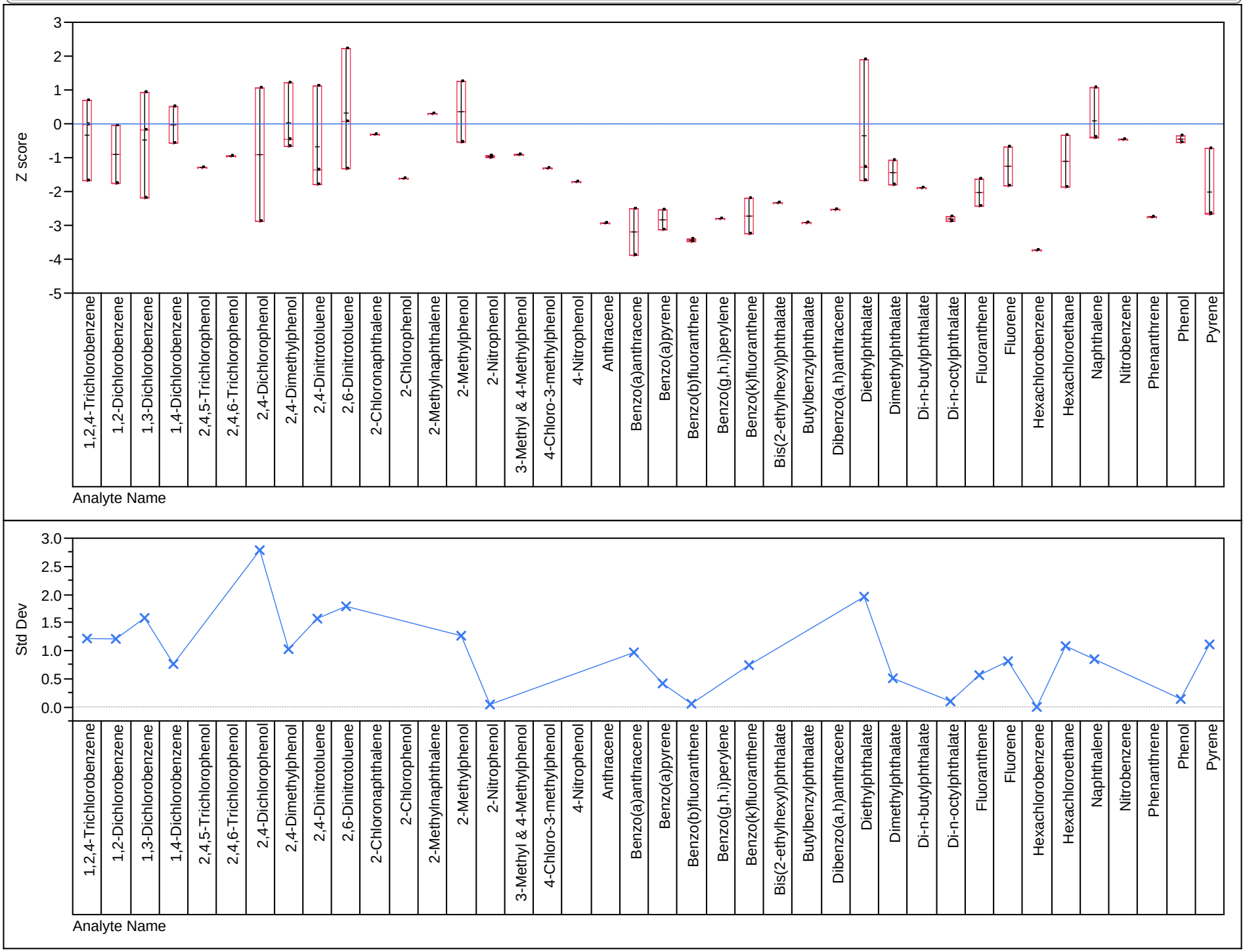
Variability Gauge Lab Code=OBGL01

Variability Chart for Z score



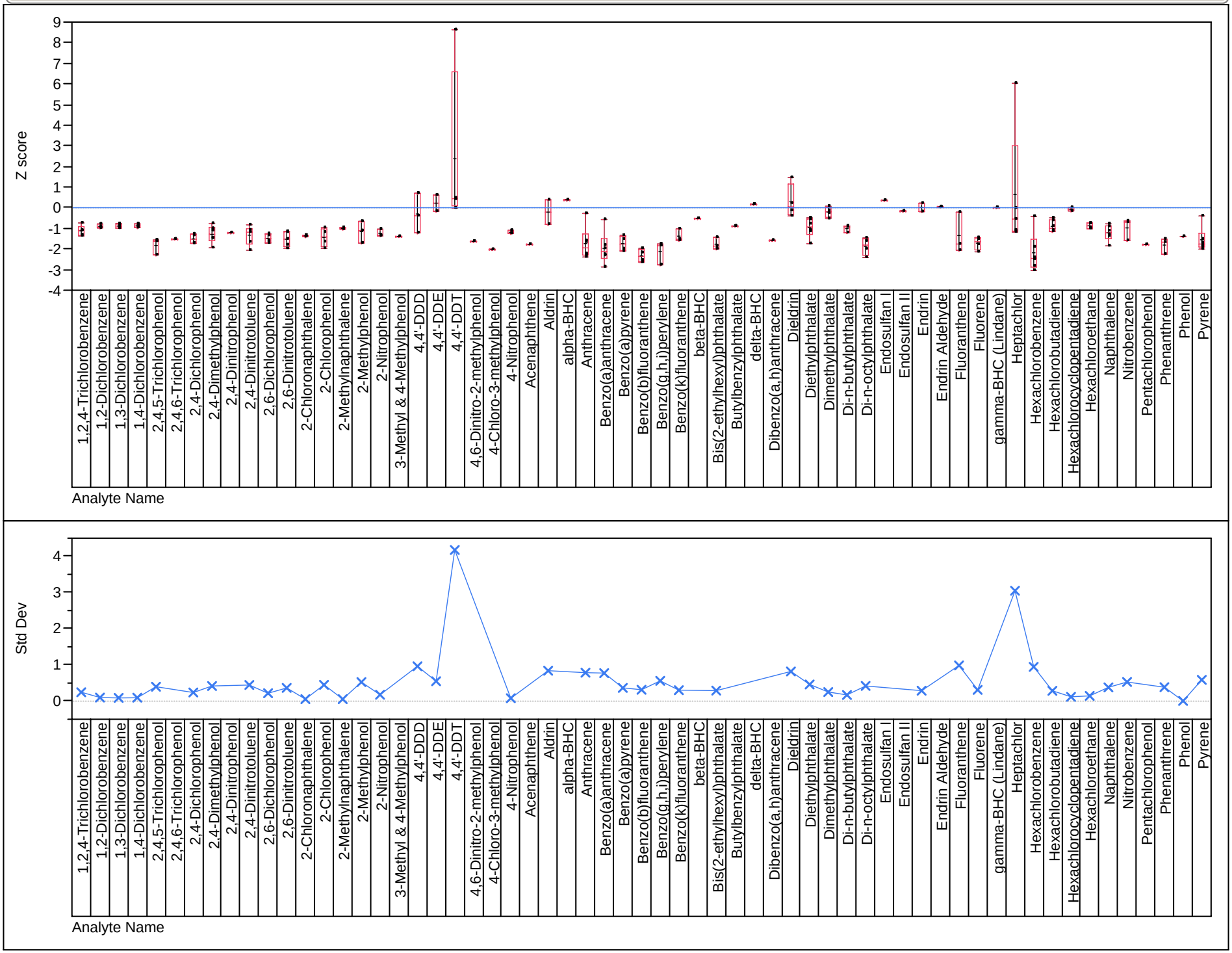
Variability Gauge Lab Code=OTLI01

Variability Chart for Z score



Variability Gauge Lab Code=QUAN01

Variability Chart for Z score

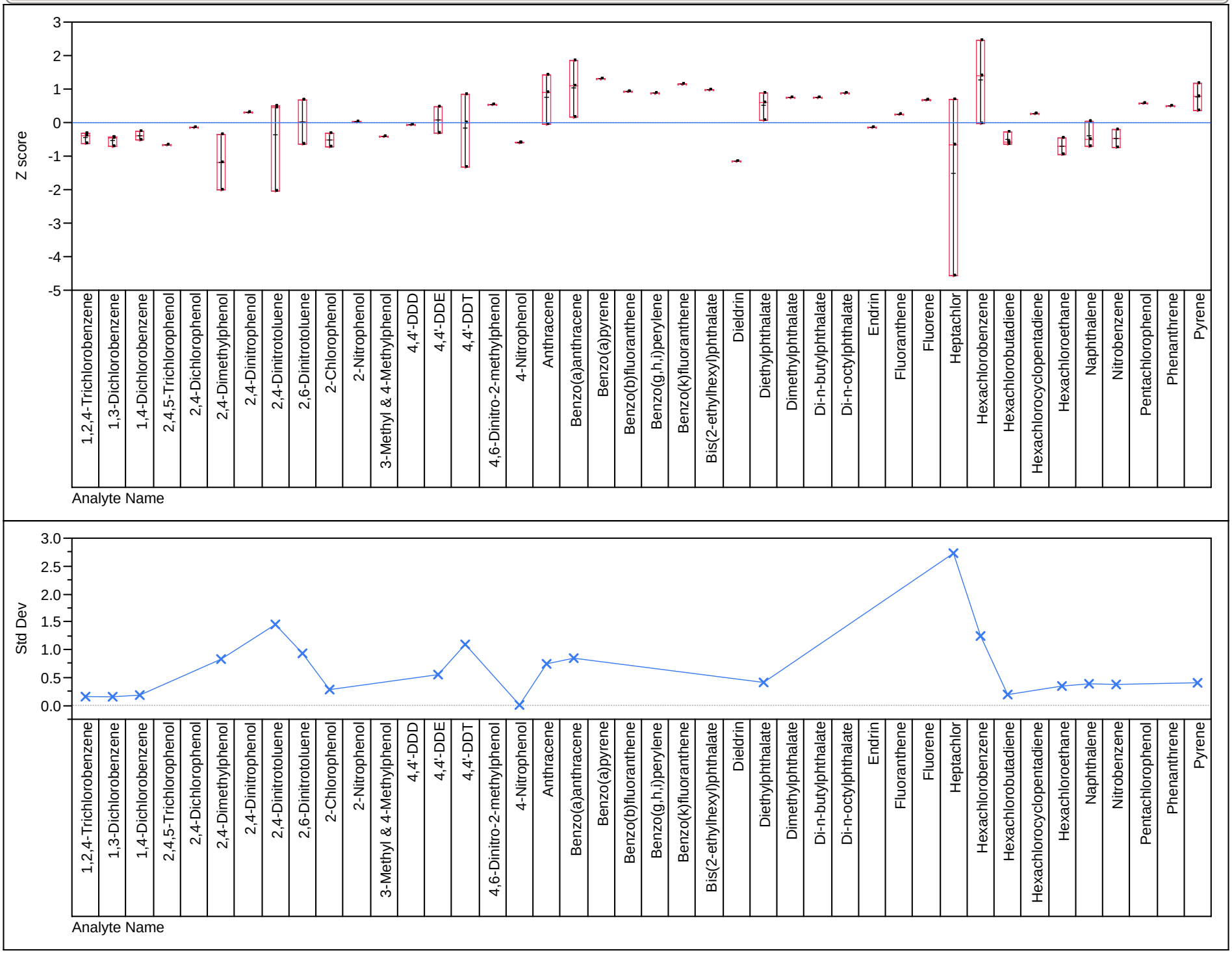


Variability Gauge Lab Code=QUAN02

Variability Chart for Z score

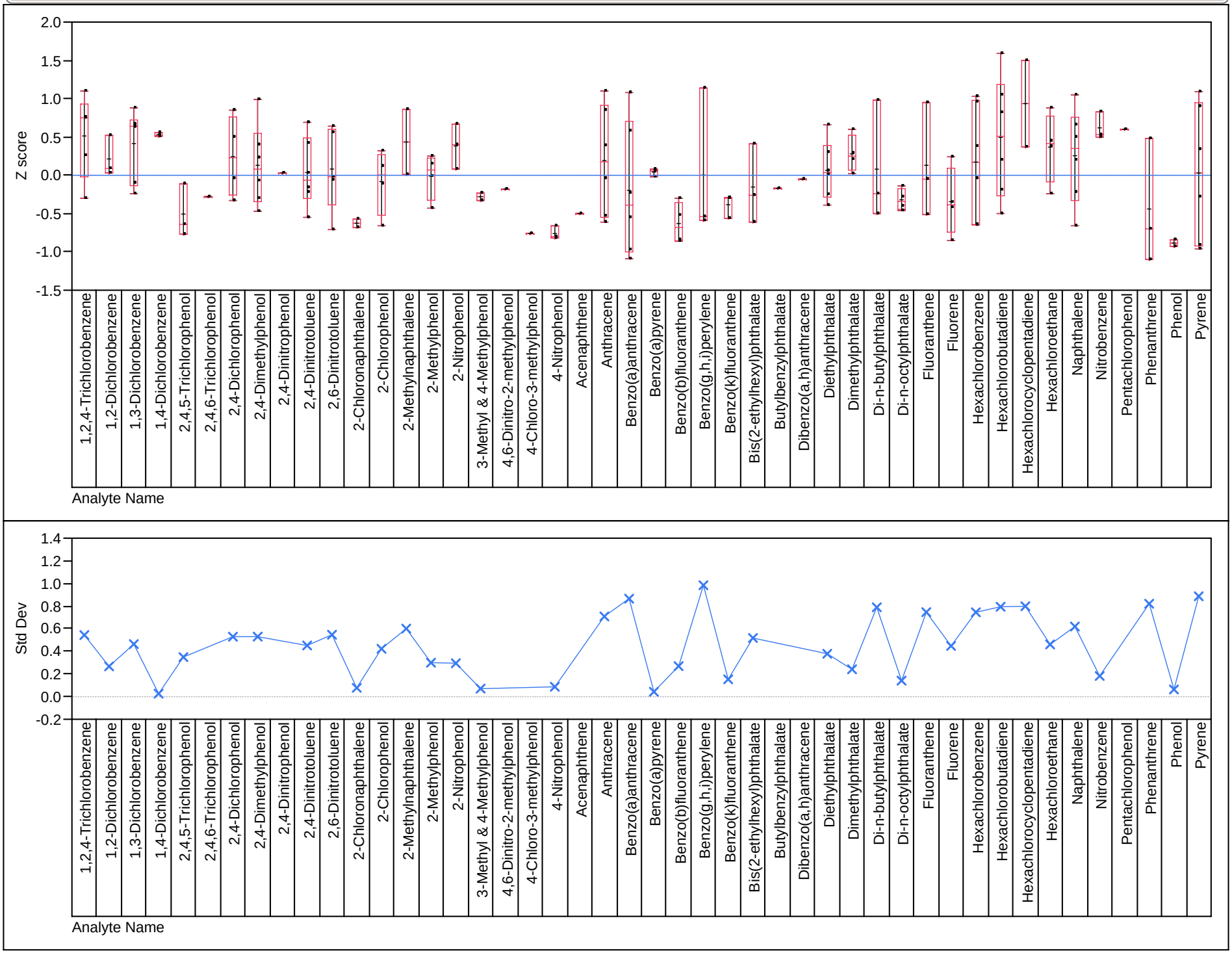
Variability Gauge Lab Code=RECC01

Variability Chart for Z score



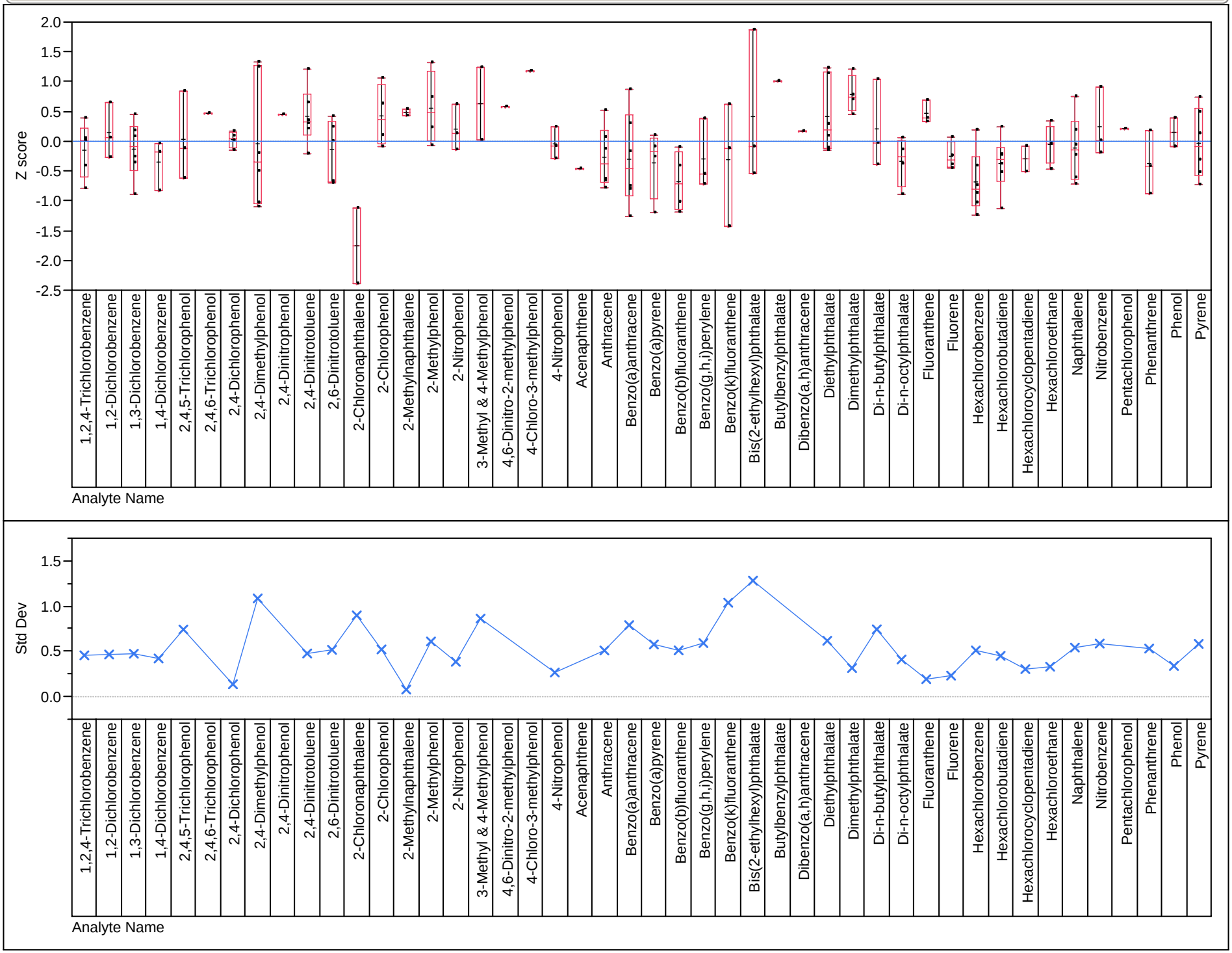
Variability Gauge Lab Code=SALC01

Variability Chart for Z score



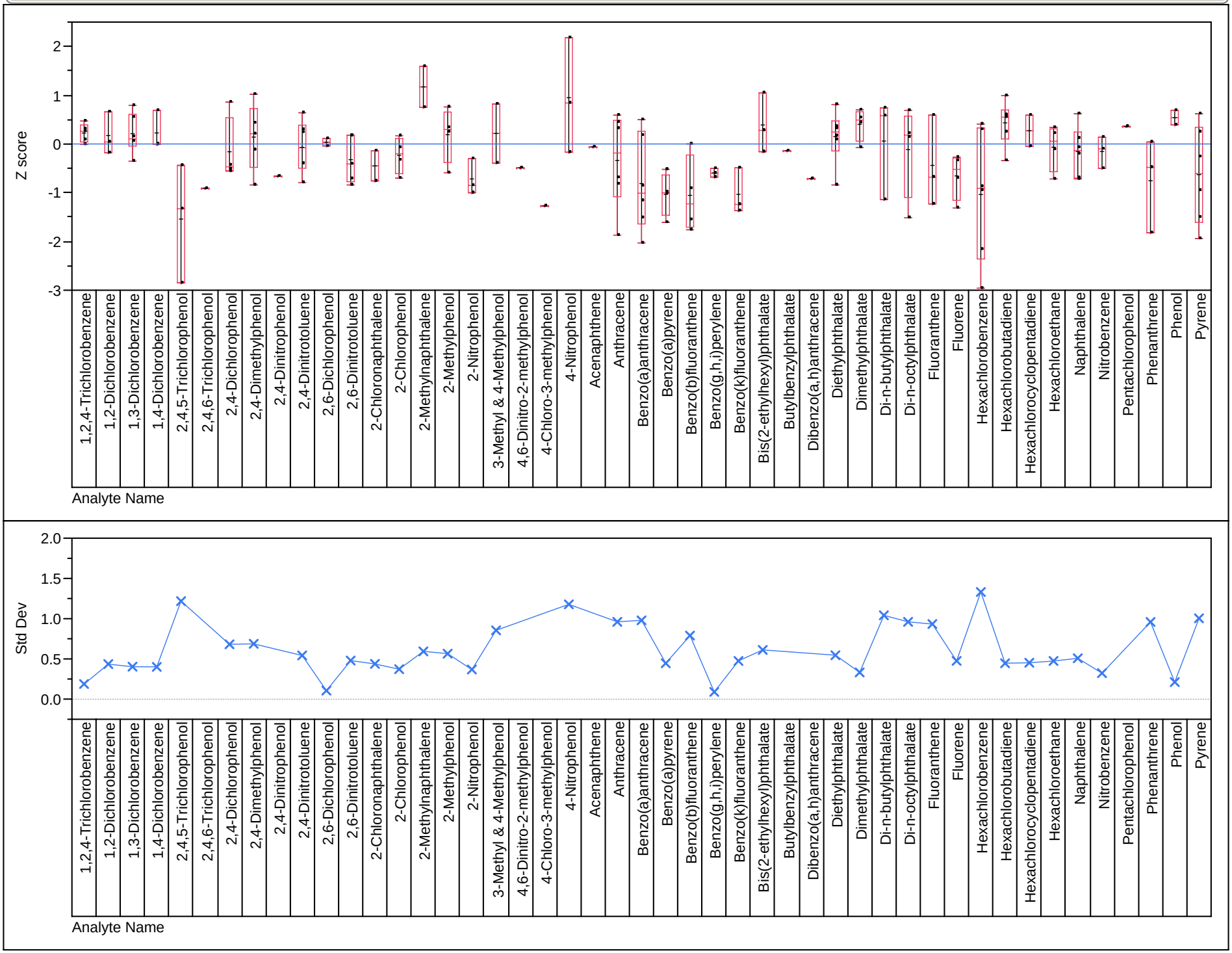
Variability Gauge Lab Code=SOUT01

Variability Chart for Z score



Variability Gauge Lab Code=WEST01

Variability Chart for Z score



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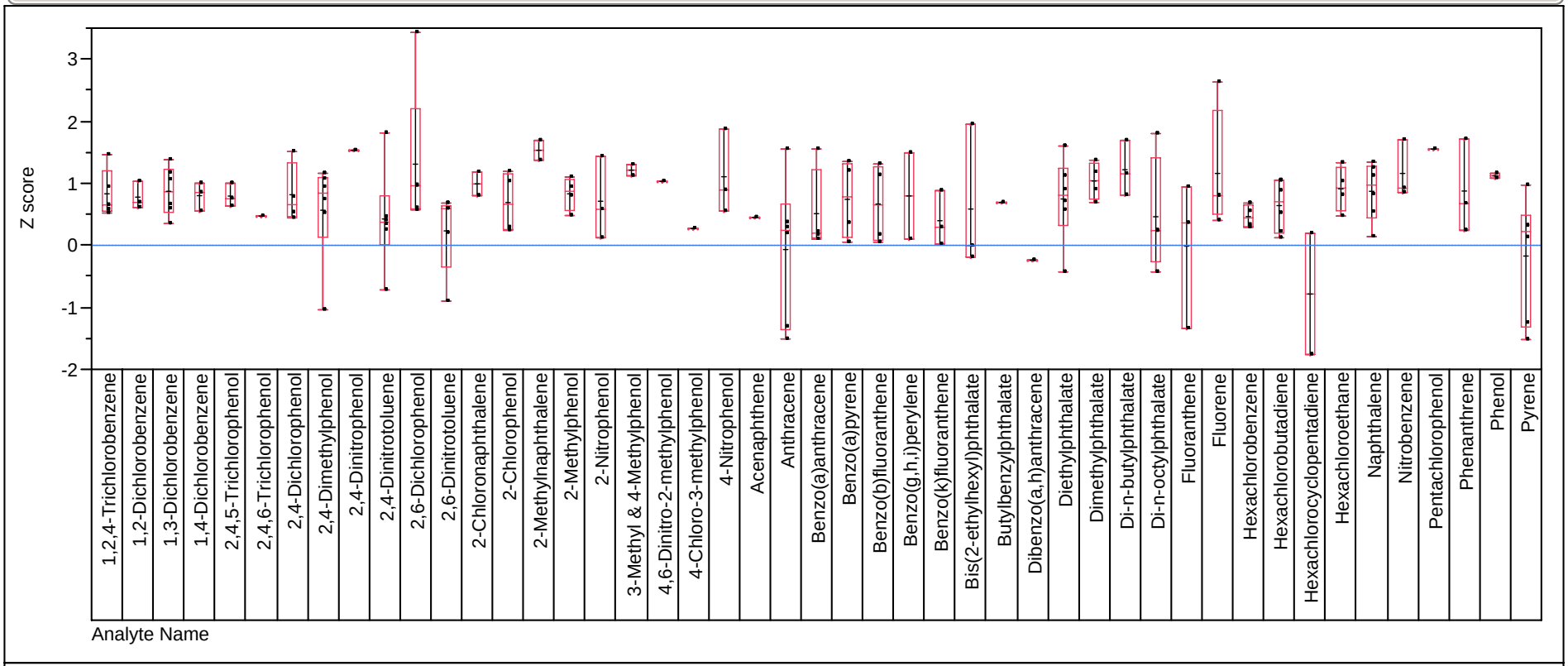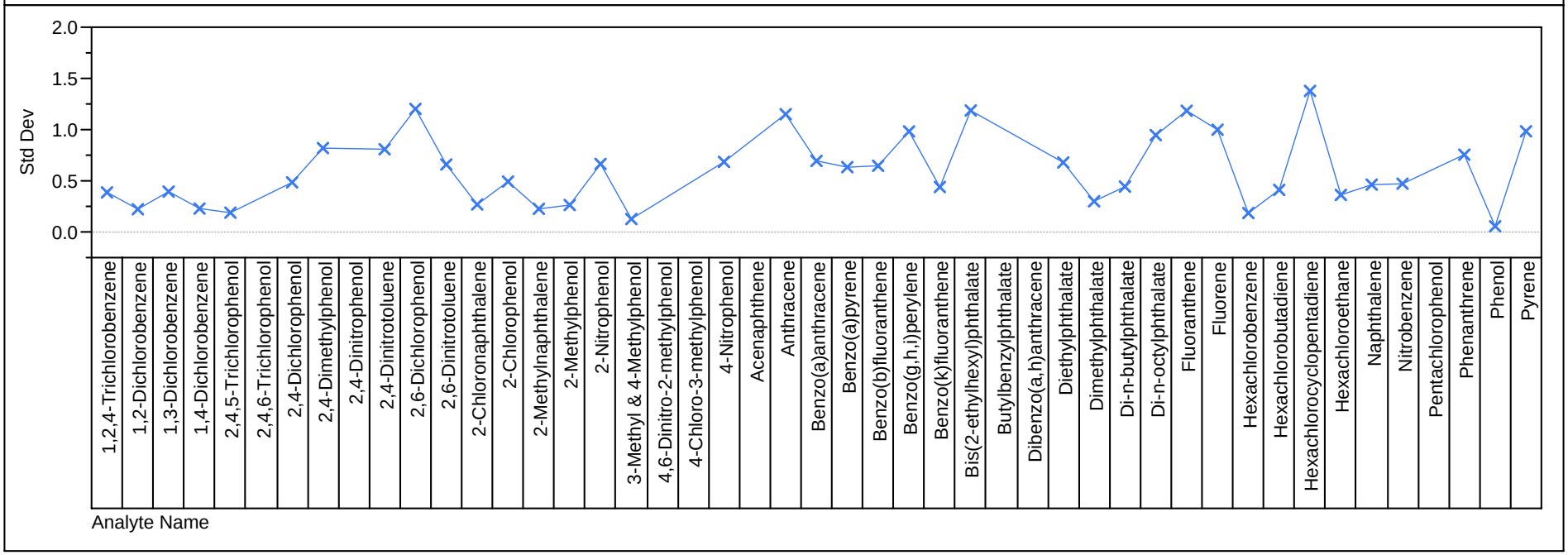
Variability Chart for Z score