Mixed Analyte Performance Evaluation Program

Statistical Summary

Sample ID: MAPEP-03-S10

Analyte	T(1)	A(2)	Grand Mean	Std. Dev.	Reference Value	Analyte Text	Acceptance Limits	Units
Antimony	24	3	20.72	0.80	19.9		13.93 - 25.87	(mg/kg)
Arsenic	30	23	7.24	1.01	7.4		5.18 - 9.62	(mg/kg)
Barium	31	27	442.56	34.62	448		313.60 - 582.40	(mg/kg)
Beryllium	28	27	4.11	0.54	4.36		3.05 - 5.67	(mg/kg)
Cadmium	31	22	1.99	0.29	2.14		1.50 - 2.78	(mg/kg)
Chromium	33	26	26.10	3.75	27		18.90 - 35.10	(mg/kg)
Copper	7							(mg/kg)
Lead	31	27	13.84	1.71	14.4		10.08 - 18.72	(mg/kg)
Manganese	4							(mg/kg)
Nickel	31	31	101.61	10.25	109		76.30 - 141.70	(mg/kg)
Potassium	4							(mg/kg)
Selenium	24	12	1.57	0.31	1.69		1.18 - 2.20	(mg/kg)
Silver	29	25	10.62	1.08	11.7		8.19 - 15.21	(mg/kg)
Thallium	11	8				False Positive Test		(mg/kg)
Uranium-Total	7	7						(mg/kg)
Uranium-235	5	5						(mg/kg)
Uranium-238	4	4						(mg/kg)
Vanadium	30	28	91.41	9.83	92		64.40 - 119.60	(mg/kg)
Zinc	32	31	134.26	12.10	142		99.40 - 184.60	(mg/kg)
Americium-241	23	16				False Postive Test		
Cesium-134	48	48	218.86	26.08	238		166.60 - 309.40	(Bq/kg)
Cesium-137	48	44	828.05	56.89	832		582.40 - 1081.60	(Bq/kg)
Cobalt-57	47	45	527.05	46.67	530		371.00 - 689.00	(Bq/kg)
Cobalt-60	49	47	431.81	34.02	420		294.00 - 546.00	(Bq/kg)
Iron-55	8	6	902.03	107.96	1020		714.00 - 1326.00	(Bq/kg)
Manganese-54	47	44	143.56	10.42	137		95.90 - 178.10	(Bq/kg)
Nickel-63	14	14	749.97	130.15	770		539.00 - 1001.00	(Bq/kg)
Plutonium-238	35	33	62.54	6.43	66.9		46.83 - 86.97	(Bq/kg)
Plutonium-239/240	36	36	50.39	3.95	52.7		36.89 - 68.51	(Bq/kg)
Potassium-40	48	44	672.20	55.74	652		456.40 - 847.60	(Bq/kg)
Strontium-90	33	28	631.69	64.87	714		499.80 - 928.20	(Bq/kg)
Uranium-234/233	34	30	82.42	7.40	89		62.30 - 115.70	(Bq/kg)
Uranium-238	36	36	399.73	39.05	421		294.70 - 547.30	(Bq/kg)
Zinc-65	47	45	526.08	41.65	490		343.00 - 637.00	(Bq/kg)

Note: Outliers are excluded from the statistical summary.
Outliers are defied as laboratory data with a bias greater than 30 percent.
(1) T = Total Number of Laboratories Reporting Analyte.
(2) A = Number of Laboratories with 'Acceptable' Performance.
1. For organic components with absoute value of Z-score < 3
2. Acceptance range minimum labeled as "QL" means from the Quantitation Limit to the upper range.

Analyte	T(1)	A(2)	Grand Mean	Std. Dev.	Reference Value	Analyte Text	Acceptance Limits	Units
Cumene	10	10	66.56	22.15	66.4		QL - 142.84	(ug/kg)
1,2,4-Trimethylbenzene	11	11	65.95	28.80	65.1		QL - 167.80	(ug/kg)
Chloroform	14	14	142.13	38.95	154.3		89.89 - 218.63	(ug/kg)
1,2-Dichloroethane	14	14	114.51	25.69	122		70.89 - 173.08	(ug/kg)
Trichloroethene	14	14	122.97	35.40	132.9		79.29 - 186.43	(ug/kg)
t-butylbenzene	11	11	62.78	25.83	62.5		QL - 151.39	(ug/kg)
Toluene	14	14	77.20	24.00	84.9		42.96 - 126.80	(ug/kg)
1,1,2-Trichloroethane	14	14	127.16	30.18	133.1		55.86 - 210.38	(ug/kg)
Tetrachloroethene	14	14	116.36	39.98	124.6		26.78 - 222.37	(ug/kg)
n-butylbenzene	11	11	45.24	22.97	45.2		QL - 119.37	(ug/kg)
Ethylbenzene	14	14	68.31	23.36	71.7		5.98 - 137.34	(ug/kg)
m & p-Xylene	14	14	68.91	23.38	71.3		QL - 142.69	(ug/kg)
1,1,2,2-Tetrachloroethane	14	14	130.23	38.08	131		4.49 - 257.49	(ug/kg)
1,3-Dichlorobenzene	20	20	900.18	428.10	900.2		QL - 2184.06	(ug/kg)
1,4-Dichlorobenzene	16	16	484.51	221.11	484.5		QL - 1147.62	(ug/kg)
1,2,4-Trichlorobenzene	20	20	623.21	169.58	623.2		114.65 - 1131.78	(ug/kg)
Naphthalene	20	20	643.56	191.84	643.6		68.23 - 1218.89	(ug/kg)
Hexachlorobutadiene	20	20	770.64	238.61	770.6		55.04 - 1486.24	(ug/kg)
2,6-Dichlorophenol	12	12	330.38	98.83	330.4		33.98 - 626.77	(ug/kg)
2-Chloronaphthalene	20	20	723.74	200.75	723.7		121.68 - 1325.80	(ug/kg)
2,6-Dinitrotoluene	20	20	911.92	242.48	911.9		184.71 - 1639.12	(ug/kg)
2,4-Dinitrotoluene	19	19	788.03	181.82	788		242.75 - 1333.32	(ug/kg)
Fluorene	20	20	664.06	207.42	664		41.99 - 1286.12	(ug/kg)
Diethylphthalate	19	19	824.65	204.45	824.6		211.49 - 1437.81	(ug/kg)
Anthracene	18	18	421.47	117.96	421.5		67.71 - 775.24	(ug/kg)
Pentachlorobenzene	10	10	705.09	199.95	705.1		105.43 - 1304.75	(ug/kg)
Pyrene	20	20	739.11	175.44	739.1		212.97 - 1265.26	(ug/kg)
Benzo(a)anthracene	20	20	680.59	170.32	680.6		169.80 - 1191.38	(ug/kg)
Chrysene	20	20	977.15	237.99	977.1		263.41 - 1690.88	(ug/kg)
Bis(2-ethylhexyl)phthalat	19	18	1497.68	392.96	1498		319.21 - 2676.15	(ug/kg)

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