MAPEP Mixed Analyte Performance Evaluation Program

Sample Statistical Summary

MAPEP-07-MaW17

Analyte	T(1)	A(2)	Grand Mean	Standard Deviation	Ref Value	Analyte Text	Acceptance Range	Units
Aluminum	4							(mg/L)
Antimony	34	34	2.15	0.17	2.07		1.45 - 2.69	(mg/L)
Arsenic	37	36	2.53	0.16	2.44		1.71 - 3.17	(mg/L)
Barium	37	36	0.696	0.034	0.675		0.473 - 0.878	(mg/L)
Beryllium	35	35	0.514	0.030	0.497		0.348 - 0.646	(mg/L)
Cadmium	37	36	0.814	0.035	0.797		0.558 - 1.036	(mg/L)
Calcium	4							(mg/L)
Chromium	35	35	2.03	0.13	1.98		1.39 - 2.57	(mg/L)
Cobalt	35	35	1.74	0.09	1.70		1.19 - 2.21	(mg/L)
Copper	34	31				False Positive Test		(mg/L)
Iron	4							(mg/L)
Lead	36	35	0.921	0.044	0.894		0.626 - 1.162	(mg/L)
Magnesium	4							(mg/L)
Manganese	4							(mg/L)
Mercury	33	29	0.0186	0.0018	0.0177		0.0124 - 0.0230	(mg/L)
Molybdenum	1							(mg/L)
Nickel	32	28				False Positive Test		(mg/L)
Potassium	2							(mg/L)
Selenium	35	35	0.585	0.039	0.573		0.401 - 0.745	(mg/L)
Silver	11							(mg/L)
Sodium	2							(mg/L)
Technetium-99	1	1			0.0000167		0.0000117 - 0.0000217	(mg/L)
Thallium	34	34	0.879	0.045	0.848		0.594 - 1.102	(mg/L)
Uranium-Total	23	23	0.213	0.016	0.201		0.141 - 0.261	(mg/L)
Uranium-234	1							(mg/L)
Uranium-235	12	11	0.00157	0.00008	0.00156		0.00109 - 0.00203	(mg/L)
Uranium-238	13	13	0.216	0.008	0.199		0.139 - 0.259	(mg/L)
Vanadium	35	35	1.28	0.08	1.22		0.85 - 1.59	(mg/L)
Zinc	35	33	3.34	0.20	3.30		2.31 - 4.29	(mg/L)
Americium-241	53	47	1.65	0.20	1.71		1.20 - 2.22	(Bq/L)
Cadmium-109	1							(Bq/L)
Cesium-134	78	78	80.1	6.6	83.5		58.5 - 108.6	(Bq/L)
Cesium-137	80	79	169.4	8.2	163.0		114.1 - 211.9	(Bq/L)
Cobalt-57	80	79	148.8	7.9	143.7		100.6 - 186.8	(Bq/L)
Cobalt-60	80	79	28.1	1.4	26.9		18.8 - 35.0	(Bq/L)
Europium-154	1							(Bq/L)
Hydrogen-3	59	53	294.1	22.3	283.0		198.1 - 367.9	(Bq/L)
Iron-55	12	11	138.2	13.2	129.3		90.5 - 168.1	(Bq/L)
Manganese-54	79	79	131.2	5.9	123.8		86.7 - 160.9	(Bq/L)
Nickel-63	18	17	130.7	17.0	130.4		91.3 - 169.5	(Bq/L)
Plutonium-238	44	40	2.17	0.23	2.25		1.58 - 2.93	(Bq/L)
Plutonium-239/240	44	41	2.06	0.20	2.22		1.55 - 2.89	(Bq/L)
Potassium-40	3							(Bq/L)
Strontium-90	44	42	8.75	0.75	8.87		6.21 - 11.53	(Bq/L)

Sulfur-35	1						(Bq/L)
Technetium-99	26	25	10.7	1.3	10.5	7.4 - 13.7	(Bq/L)
Uranium-234/233	45	44	2.50	0.20	2.49	1.74 - 3.24	(Bq/L)
Uranium-235	4						(Bq/L)
Uranium-238	47	46	2.54	0.20	2.48	1.74 - 3.22	(Bq/L)
Zinc-65	79	79	123.1	7.2	114.8	80.4 - 149.2	(Bq/L)

Note: (1) T = Total number of laboratories reporting analyte.
(2) A = Number of laboratories with 'Acceptable' performance.

1. For organic components with absolute value of Z-score < 3
2. Acceptance range minimum labeled as "QL" means from detection limit to the upper range.