



AAFCO
Proficiency Testing Program



Fish Feed

Minerals Scheme

Labs Reporting: 31

Test Material Code # 201851

Analyte Proficiency Testing Report

Issue Date : 04/30/2018

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
015	Aluminum (mg / kg (ppm))	0047	220.85	6.7000	400.81	26.015	16.746	16	-6.92	015.52	0
015	Aluminum (mg / kg (ppm))	0278	244.40	4.0000	400.81	26.015	16.746	16	-6.01	015.43	0
015	Aluminum (mg / kg (ppm))	2058	245.84	21.357	400.81	26.015	16.746	16	-5.96	015.43	0
015	Aluminum (mg / kg (ppm))	0186	315.50	3.0000	400.81	26.015	16.746	16	-3.28	015.52	0
015	Aluminum (mg / kg (ppm))	0407	390.87	15.001	400.81	26.015	16.746	16	-0.38	015.41	0
015	Aluminum (mg / kg (ppm))	0918	396.75	13.880	400.81	26.015	16.746	16	-0.16	015.43	0
015	Aluminum (mg / kg (ppm))	2207	419.50	65.000	400.81	26.015	16.746	16	0.72	015.52	0
015	Aluminum (mg / kg (ppm))	0510	424.96	5.7500	400.81	26.015	16.746	16	0.93	015.43	0
015	Aluminum (mg / kg (ppm))	0208	425.00	14.000	400.81	26.015	16.746	16	0.93	015.41	0
015	Aluminum (mg / kg (ppm))	0042	431.00	60.000	400.81	26.015	16.746	16	1.16	015.42	0
015	Aluminum (mg / kg (ppm))	0227	439.50	1.0000	400.81	26.015	16.746	16	1.49	015.43	0
015	Aluminum (mg / kg (ppm))	0353	447.50	3.0000	400.81	26.015	16.746	16	1.79	015.43	0
015	Aluminum (mg / kg (ppm))	2033	469.25	22.500	400.81	26.015	16.746	16	2.63	015.43	0
015	Aluminum (mg / kg (ppm))	0964	474.51	19.544	400.81	26.015	16.746	16	2.83	015.41	0
015	Aluminum (mg / kg (ppm))	0098	486.60	12.200	400.81	26.015	16.746	16	3.30	015.43	0
015	Aluminum (mg / kg (ppm))	0553	509.50	1.0000	400.81	26.015	16.746	16	4.18	015.53	0
017	Boron (mg / kg (ppm))	0047	39.285	0.29000	70.744	5.9613	2.5423	11	-5.28	017.52	0
017	Boron (mg / kg (ppm))	0407	63.224	0.87510	70.744	5.9613	2.5423	11	-1.26	017.41	0
017	Boron (mg / kg (ppm))	0208	66.050	0.50000	70.744	5.9613	2.5423	11	-0.79	017.44	0
017	Boron (mg / kg (ppm))	0870	67.925	0.13000	70.744	5.9613	2.5423	11	-0.47	017.43	0
017	Boron (mg / kg (ppm))	0353	68.000	10.000	70.744	5.9613	2.5423	11	-0.46	017.43	0
017	Boron (mg / kg (ppm))	0510	71.530	0.92000	70.744	5.9613	2.5423	11	0.13	017.43	0
017	Boron (mg / kg (ppm))	0553	72.250	3.5000	70.744	5.9613	2.5423	11	0.25	017.53	0
017	Boron (mg / kg (ppm))	2033	73.950	3.5000	70.744	5.9613	2.5423	11	0.54	017.43	0
017	Boron (mg / kg (ppm))	0098	74.770	5.8000	70.744	5.9613	2.5423	11	0.68	017.43	0
017	Boron (mg / kg (ppm))	2207	79.000	2.0000	70.744	5.9613	2.5423	11	1.38	017.52	0
017	Boron (mg / kg (ppm))	0918	85.065	0.45000	70.744	5.9613	2.5423	11	2.40	017.43	0
021	Cobalt (mg / kg (ppm))	0278	6.8560	0.35000	9.1596	1.0499	0.43751	19	-2.19	021.43	0
021	Cobalt (mg / kg (ppm))	0407	7.4804	0.07770	9.1596	1.0499	0.43751	19	-1.60	021.41	0
021	Cobalt (mg / kg (ppm))	2113	7.6500	0.90000	9.1596	1.0499	0.43751	19	-1.44	021.52	0
021	Cobalt (mg / kg (ppm))	0870	8.2250	0.27000	9.1596	1.0499	0.43751	19	-0.89	021.43	0
021	Cobalt (mg / kg (ppm))	0227	8.5000	0.40000	9.1596	1.0499	0.43751	19	-0.63	021.31	0
021	Cobalt (mg / kg (ppm))	0510	9.0450	0.07000	9.1596	1.0499	0.43751	19	-0.11	021.43	0
021	Cobalt (mg / kg (ppm))	0047	9.0700	0.50000	9.1596	1.0499	0.43751	19	-0.09	021.52	0
021	Cobalt (mg / kg (ppm))	0918	9.0784	1.0656	9.1596	1.0499	0.43751	19	-0.08	021.53	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Your	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests	Z Score	Method	
021	Cobalt (mg / kg (ppm))	0208	9.1000	0.40000	9.1596	1.0499	0.43751	19	-0.06	021.31	0
021	Cobalt (mg / kg (ppm))	2033	9.1250	0.47000	9.1596	1.0499	0.43751	19	-0.03	021.43	0
021	Cobalt (mg / kg (ppm))	2141	9.1650	0.57000	9.1596	1.0499	0.43751	19	0.01	021.43	0
021	Cobalt (mg / kg (ppm))	0964	9.3308	0.49100	9.1596	1.0499	0.43751	19	0.16	021.43	0
021	Cobalt (mg / kg (ppm))	0553	9.7250	0.25000	9.1596	1.0499	0.43751	19	0.54	021.53	0
021	Cobalt (mg / kg (ppm))	0186	9.7450	0.35000	9.1596	1.0499	0.43751	19	0.56	021.52	0
021	Cobalt (mg / kg (ppm))	0098	9.9105	1.2590	9.1596	1.0499	0.43751	19	0.72	021.43	0
021	Cobalt (mg / kg (ppm))	0186	10.000	0.00000	9.1596	1.0499	0.43751	19	0.80	021.42	0
021	Cobalt (mg / kg (ppm))	2207	10.055	0.01000	9.1596	1.0499	0.43751	19	0.85	021.52	0
021	Cobalt (mg / kg (ppm))	0563	10.464	0.17930	9.1596	1.0499	0.43751	19	1.24	021.31	0
021	Cobalt (mg / kg (ppm))	0033	10.650	0.70000	9.1596	1.0499	0.43751	19	1.42	021.53	0
021	Cobalt (mg / kg (ppm))	0042	9.2000	2.4000	9.1596	1.0499	0.43751	19	0.04	021.42	1
022	Copper (mg / kg (ppm))	0047	51.165	0.65000	75.651	6.3108	2.7207	30	-3.88	022.52	0
022	Copper (mg / kg (ppm))	0504	64.610	9.2400	75.651	6.3108	2.7207	30	-1.75	022.33	0
022	Copper (mg / kg (ppm))	2058	68.237	1.4360	75.651	6.3108	2.7207	30	-1.17	022.43	0
022	Copper (mg / kg (ppm))	2114	70.560	0.20000	75.651	6.3108	2.7207	30	-0.81	022.43	0
022	Copper (mg / kg (ppm))	0003	72.000	10.000	75.651	6.3108	2.7207	30	-0.58	022.41	0
022	Copper (mg / kg (ppm))	0511	72.500	3.0000	75.651	6.3108	2.7207	30	-0.50	022.41	0
022	Copper (mg / kg (ppm))	0186	72.500	1.0000	75.651	6.3108	2.7207	30	-0.50	022.42	0
022	Copper (mg / kg (ppm))	0186	73.000	2.0000	75.651	6.3108	2.7207	30	-0.42	022.52	0
022	Copper (mg / kg (ppm))	0407	73.174	1.1547	75.651	6.3108	2.7207	30	-0.39	022.41	0
022	Copper (mg / kg (ppm))	0098	73.325	6.3500	75.651	6.3108	2.7207	30	-0.37	022.53	0
022	Copper (mg / kg (ppm))	0227	73.500	1.0000	75.651	6.3108	2.7207	30	-0.34	022.41	0
022	Copper (mg / kg (ppm))	0208	73.915	0.23000	75.651	6.3108	2.7207	30	-0.28	022.41	0
022	Copper (mg / kg (ppm))	2129	74.415	2.0900	75.651	6.3108	2.7207	30	-0.20	022.42	0
022	Copper (mg / kg (ppm))	2113	74.500	1.0000	75.651	6.3108	2.7207	30	-0.18	022.52	0
022	Copper (mg / kg (ppm))	0202	75.350	6.9200	75.651	6.3108	2.7207	30	-0.05	022.43	0
022	Copper (mg / kg (ppm))	0870	75.465	1.2500	75.651	6.3108	2.7207	30	-0.03	022.43	0
022	Copper (mg / kg (ppm))	2033	76.250	4.7000	75.651	6.3108	2.7207	30	0.09	022.43	0
022	Copper (mg / kg (ppm))	0504	76.545	2.3300	75.651	6.3108	2.7207	30	0.14	022.32	0
022	Copper (mg / kg (ppm))	0510	76.885	0.13000	75.651	6.3108	2.7207	30	0.20	022.43	0
022	Copper (mg / kg (ppm))	0553	76.950	4.3000	75.651	6.3108	2.7207	30	0.21	022.53	0
022	Copper (mg / kg (ppm))	0964	76.964	0.92110	75.651	6.3108	2.7207	30	0.21	022.43	0
022	Copper (mg / kg (ppm))	0017	78.481	0.07900	75.651	6.3108	2.7207	30	0.45	022.43	0
022	Copper (mg / kg (ppm))	0208	79.050	1.9000	75.651	6.3108	2.7207	30	0.54	022.31	0
022	Copper (mg / kg (ppm))	2141	79.225	3.3500	75.651	6.3108	2.7207	30	0.57	022.43	0
022	Copper (mg / kg (ppm))	0042	79.750	0.70000	75.651	6.3108	2.7207	30	0.65	022.42	0
022	Copper (mg / kg (ppm))	0353	80.500	1.0000	75.651	6.3108	2.7207	30	0.77	022.43	0
022	Copper (mg / kg (ppm))	0010	81.500	5.0000	75.651	6.3108	2.7207	30	0.93	022.33	0
022	Copper (mg / kg (ppm))	0918	81.875	2.5700	75.651	6.3108	2.7207	30	0.99	022.43	0
022	Copper (mg / kg (ppm))	2207	82.700	5.4000	75.651	6.3108	2.7207	30	1.12	022.52	0
022	Copper (mg / kg (ppm))	0504	85.490	1.7200	75.651	6.3108	2.7207	30	1.56	022.43	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
023	Fluorine (mg / kg (ppm))	2033	197.50	7.0000				2		023.01	0
023	Fluorine (mg / kg (ppm))	0208	231.50	3.0000				2		023.01	0
024	Iodine (mg / kg (ppm))	0208	12.350	0.50000	16.575	1.7376	1.6000	4		024.99	0
024	Iodine (mg / kg (ppm))	2033	13.950	1.9000	16.575	1.7376	1.6000	4		024.53	0
024	Iodine (mg / kg (ppm))	0186	17.500	1.0000	16.575	1.7376	1.6000	4		024.01	0
024	Iodine (mg / kg (ppm))	0186	22.500	3.0000	16.575	1.7376	1.6000	4		024.52	0
034	Selenium (mg / kg (ppm))	0964	1.2728	0.05590	1.7247	0.25416	0.13028	16	-1.78	034.43	0
034	Selenium (mg / kg (ppm))	0227	1.3700	0.10000	1.7247	0.25416	0.13028	16	-1.40	034.04	0
034	Selenium (mg / kg (ppm))	0047	1.3700	0.06000	1.7247	0.25416	0.13028	16	-1.40	034.52	0
034	Selenium (mg / kg (ppm))	2207	1.5500	0.10000	1.7247	0.25416	0.13028	16	-0.69	034.52	0
034	Selenium (mg / kg (ppm))	0553	1.5700	0.02000	1.7247	0.25416	0.13028	16	-0.61	034.53	0
034	Selenium (mg / kg (ppm))	0033	1.5850	0.11000	1.7247	0.25416	0.13028	16	-0.55	034.53	0
034	Selenium (mg / kg (ppm))	0010	1.6600	0.04000	1.7247	0.25416	0.13028	16	-0.25	034.53	0
034	Selenium (mg / kg (ppm))	0098	1.6755	0.06500	1.7247	0.25416	0.13028	16	-0.19	034.53	0
034	Selenium (mg / kg (ppm))	0278	1.7335	0.03300	1.7247	0.25416	0.13028	16	0.03	034.43	0
034	Selenium (mg / kg (ppm))	0870	1.8600	0.12000	1.7247	0.25416	0.13028	16	0.53	034.43	0
034	Selenium (mg / kg (ppm))	0186	1.8950	0.03000	1.7247	0.25416	0.13028	16	0.67	034.52	0
034	Selenium (mg / kg (ppm))	0208	1.9350	0.03000	1.7247	0.25416	0.13028	16	0.83	034.52	0
034	Selenium (mg / kg (ppm))	2033	1.9700	0.16000	1.7247	0.25416	0.13028	16	0.97	034.53	0
034	Selenium (mg / kg (ppm))	0918	1.9760	0.02750	1.7247	0.25416	0.13028	16	0.99	034.53	0
034	Selenium (mg / kg (ppm))	2058	1.9955	0.23300	1.7247	0.25416	0.13028	16	1.07	034.53	0
034	Selenium (mg / kg (ppm))	0407	5.9800	0.90000	1.7247	0.25416	0.13028	16	16.74	034.43	0
034	Selenium (mg / kg (ppm))	2141	6.2300	1.4200	1.7247	0.25416	0.13028	16	17.73	034.43	1
036	Sulfur (%)	2141	0.76180	0.00840	0.99907	0.03997	0.04309	16	-5.94	036.43	0
036	Sulfur (%)	0870	0.85655	0.03310	0.99907	0.03997	0.04309	16	-3.57	036.42	0
036	Sulfur (%)	0186	0.94350	0.00700	0.99907	0.03997	0.04309	16	-1.39	036.42	0
036	Sulfur (%)	0918	0.96150	0.07100	0.99907	0.03997	0.04309	16	-0.94	036.43	0
036	Sulfur (%)	0227	0.96300	0.00800	0.99907	0.03997	0.04309	16	-0.90	036.42	0
036	Sulfur (%)	0208	0.97200	0.05600	0.99907	0.03997	0.04309	16	-0.68	036.00	0
036	Sulfur (%)	0407	0.97420	0.00200	0.99907	0.03997	0.04309	16	-0.62	036.42	0
036	Sulfur (%)	0202	0.98900	0.01600	0.99907	0.03997	0.04309	16	-0.25	036.43	0
036	Sulfur (%)	0098	1.0170	0.08600	0.99907	0.03997	0.04309	16	0.45	036.43	0
036	Sulfur (%)	0553	1.0240	0.07200	0.99907	0.03997	0.04309	16	0.62	036.53	0
036	Sulfur (%)	2207	1.0300	0.00000	0.99907	0.03997	0.04309	16	0.77	036.53	0
036	Sulfur (%)	0964	1.0380	0.09990	0.99907	0.03997	0.04309	16	0.97	036.43	0
036	Sulfur (%)	0353	1.0450	0.11000	0.99907	0.03997	0.04309	16	1.15	036.43	0
036	Sulfur (%)	2033	1.0500	0.10000	0.99907	0.03997	0.04309	16	1.27	036.43	0
036	Sulfur (%)	0510	1.0900	0.00000	0.99907	0.03997	0.04309	16	2.28	036.43	0
036	Sulfur (%)	0186	1.0900	0.02000	0.99907	0.03997	0.04309	16	2.28	036.52	0
038	Molybdenum (mg / kg (ppm))	0208	32.250	1.1000	39.035	3.5972	2.1927	19	-1.89	038.41	0
038	Molybdenum (mg / kg (ppm))	0964	34.279	4.7773	39.035	3.5972	2.1927	19	-1.32	038.43	0
038	Molybdenum (mg / kg (ppm))	0186	35.500	3.0000	39.035	3.5972	2.1927	19	-0.98	038.42	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Your	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests	Z Score	Method	
038	Molybdenum (mg / kg (ppm))	0010	36.900	3.8000	39.035	3.5972	2.1927	19	-0.59	038.53	0
038	Molybdenum (mg / kg (ppm))	0033	37.400	1.8000	39.035	3.5972	2.1927	19	-0.45	038.53	0
038	Molybdenum (mg / kg (ppm))	0510	37.620	0.48000	39.035	3.5972	2.1927	19	-0.39	038.43	0
038	Molybdenum (mg / kg (ppm))	0504	37.680	2.6200	39.035	3.5972	2.1927	19	-0.38	038.43	0
038	Molybdenum (mg / kg (ppm))	2033	38.600	4.6000	39.035	3.5972	2.1927	19	-0.12	038.43	0
038	Molybdenum (mg / kg (ppm))	0407	38.728	0.64650	39.035	3.5972	2.1927	19	-0.09	038.41	0
038	Molybdenum (mg / kg (ppm))	2207	38.850	0.70000	39.035	3.5972	2.1927	19	-0.05	038.52	0
038	Molybdenum (mg / kg (ppm))	0918	38.901	4.3507	39.035	3.5972	2.1927	19	-0.04	038.53	0
038	Molybdenum (mg / kg (ppm))	0098	39.110	3.5400	39.035	3.5972	2.1927	19	0.02	038.53	0
038	Molybdenum (mg / kg (ppm))	0553	39.350	3.1000	39.035	3.5972	2.1927	19	0.09	038.53	0
038	Molybdenum (mg / kg (ppm))	2141	40.120	0.64000	39.035	3.5972	2.1927	19	0.30	038.43	0
038	Molybdenum (mg / kg (ppm))	2113	41.000	0.00000	39.035	3.5972	2.1927	19	0.55	038.52	0
038	Molybdenum (mg / kg (ppm))	0042	41.350	2.3000	39.035	3.5972	2.1927	19	0.64	038.42	0
038	Molybdenum (mg / kg (ppm))	0353	44.483	3.1460	39.035	3.5972	2.1927	19	1.51	038.43	0
038	Molybdenum (mg / kg (ppm))	0047	46.790	1.0600	39.035	3.5972	2.1927	19	2.16	038.52	0
038	Molybdenum (mg / kg (ppm))	0227	47.000	0.00000	39.035	3.5972	2.1927	19	2.21	038.33	0
041	Vanadium (mg / kg (ppm))	0278	0.85500	0.05000	2.6102	0.36140	0.07868	8	-4.86	041.43	0
041	Vanadium (mg / kg (ppm))	0047	2.2400	0.10000	2.6102	0.36140	0.07868	8	-1.02	041.52	0
041	Vanadium (mg / kg (ppm))	2033	2.3150	0.11000	2.6102	0.36140	0.07868	8	-0.82	041.43	0
041	Vanadium (mg / kg (ppm))	0553	2.6800	0.04000	2.6102	0.36140	0.07868	8	0.19	041.53	0
041	Vanadium (mg / kg (ppm))	2207	2.7000	0.00000	2.6102	0.36140	0.07868	8	0.25	041.52	0
041	Vanadium (mg / kg (ppm))	0098	2.8155	0.09100	2.6102	0.36140	0.07868	8	0.57	041.43	0
041	Vanadium (mg / kg (ppm))	0870	2.9850	0.03000	2.6102	0.36140	0.07868	8	1.04	041.43	0
041	Vanadium (mg / kg (ppm))	0563	3.3811	0.20840	2.6102	0.36140	0.07868	8	2.13	041.34	0
516	Arsenic, Total (mg / kg (ppm))	0425	1.3650	0.01000	12.068	1.3270	0.61352	23	-8.07	516.34	0
516	Arsenic, Total (mg / kg (ppm))	2114	3.1450	0.05000	12.068	1.3270	0.61352	23	-6.72	516.43	0
516	Arsenic, Total (mg / kg (ppm))	0683	4.4150	0.23000	12.068	1.3270	0.61352	23	-5.77	516.00	0
516	Arsenic, Total (mg / kg (ppm))	0563	4.5878	0.21440	12.068	1.3270	0.61352	23	-5.64	516.00	0
516	Arsenic, Total (mg / kg (ppm))	0047	9.7850	0.17000	12.068	1.3270	0.61352	23	-1.72	516.52	0
516	Arsenic, Total (mg / kg (ppm))	2058	11.457	0.78000	12.068	1.3270	0.61352	23	-0.46	516.53	0
516	Arsenic, Total (mg / kg (ppm))	0033	11.500	1.4000	12.068	1.3270	0.61352	23	-0.43	516.53	0
516	Arsenic, Total (mg / kg (ppm))	0278	11.505	0.17100	12.068	1.3270	0.61352	23	-0.42	516.43	0
516	Arsenic, Total (mg / kg (ppm))	0186	11.800	0.00000	12.068	1.3270	0.61352	23	-0.20	516.52	0
516	Arsenic, Total (mg / kg (ppm))	0010	11.850	1.3000	12.068	1.3270	0.61352	23	-0.16	516.53	0
516	Arsenic, Total (mg / kg (ppm))	0227	11.940	0.88000	12.068	1.3270	0.61352	23	-0.10	516.53	0
516	Arsenic, Total (mg / kg (ppm))	0553	12.600	0.40000	12.068	1.3270	0.61352	23	0.40	516.53	0
516	Arsenic, Total (mg / kg (ppm))	0098	12.870	0.76000	12.068	1.3270	0.61352	23	0.60	516.53	0
516	Arsenic, Total (mg / kg (ppm))	0964	12.937	1.5124	12.068	1.3270	0.61352	23	0.65	516.43	0
516	Arsenic, Total (mg / kg (ppm))	2207	13.000	0.80000	12.068	1.3270	0.61352	23	0.70	516.52	0
516	Arsenic, Total (mg / kg (ppm))	0870	13.130	0.24000	12.068	1.3270	0.61352	23	0.80	516.43	0
516	Arsenic, Total (mg / kg (ppm))	0208	13.200	1.4000	12.068	1.3270	0.61352	23	0.85	516.52	0
516	Arsenic, Total (mg / kg (ppm))	0407	13.410	0.70010	12.068	1.3270	0.61352	23	1.01	516.43	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
516	Arsenic, Total (mg / kg (ppm))	2033	13.425	1.8500	12.068	1.3270	0.61352	23	1.02	516.53	0
516	Arsenic, Total (mg / kg (ppm))	2141	13.930	0.20000	12.068	1.3270	0.61352	23	1.40	516.43	0
516	Arsenic, Total (mg / kg (ppm))	0918	15.036	1.0431	12.068	1.3270	0.61352	23	2.24	516.53	0
516	Arsenic, Total (mg / kg (ppm))	2113	16.000	0.00000	12.068	1.3270	0.61352	23	2.96	516.52	0
516	Arsenic, Total (mg / kg (ppm))	0042	21.000	0.00000	12.068	1.3270	0.61352	23	6.73	516.42	0
518	Cadmium (mg / kg (ppm))	0563	0.26360	0.01300	0.34600	0.06493	0.02069	20	-1.27	518.34	0
518	Cadmium (mg / kg (ppm))	0278	0.27700	0.00200	0.34600	0.06493	0.02069	20	-1.06	518.43	0
518	Cadmium (mg / kg (ppm))	0047	0.30000	0.02000	0.34600	0.06493	0.02069	20	-0.71	518.52	0
518	Cadmium (mg / kg (ppm))	0407	0.30200	0.01580	0.34600	0.06493	0.02069	20	-0.68	518.41	0
518	Cadmium (mg / kg (ppm))	0227	0.32650	0.02900	0.34600	0.06493	0.02069	20	-0.30	518.53	0
518	Cadmium (mg / kg (ppm))	0033	0.33500	0.03000	0.34600	0.06493	0.02069	20	-0.17	518.53	0
518	Cadmium (mg / kg (ppm))	0683	0.33750	0.00900	0.34600	0.06493	0.02069	20	-0.13	518.31	0
518	Cadmium (mg / kg (ppm))	2113	0.34000	0.02000	0.34600	0.06493	0.02069	20	-0.09	518.52	0
518	Cadmium (mg / kg (ppm))	0186	0.34200	0.03600	0.34600	0.06493	0.02069	20	-0.06	518.52	0
518	Cadmium (mg / kg (ppm))	0208	0.34250	0.00300	0.34600	0.06493	0.02069	20	-0.05	518.52	0
518	Cadmium (mg / kg (ppm))	0010	0.34500	0.03000	0.34600	0.06493	0.02069	20	-0.02	518.53	0
518	Cadmium (mg / kg (ppm))	2058	0.35200	0.01600	0.34600	0.06493	0.02069	20	0.09	518.53	0
518	Cadmium (mg / kg (ppm))	0098	0.35450	0.04900	0.34600	0.06493	0.02069	20	0.13	518.53	0
518	Cadmium (mg / kg (ppm))	2141	0.36000	0.04000	0.34600	0.06493	0.02069	20	0.22	518.43	0
518	Cadmium (mg / kg (ppm))	2033	0.36000	0.02000	0.34600	0.06493	0.02069	20	0.22	518.53	0
518	Cadmium (mg / kg (ppm))	0964	0.37080	0.00300	0.34600	0.06493	0.02069	20	0.38	518.43	0
518	Cadmium (mg / kg (ppm))	0553	0.38250	0.00300	0.34600	0.06493	0.02069	20	0.56	518.53	0
518	Cadmium (mg / kg (ppm))	0918	0.38960	0.04500	0.34600	0.06493	0.02069	20	0.67	518.53	0
518	Cadmium (mg / kg (ppm))	2207	0.40000	0.02000	0.34600	0.06493	0.02069	20	0.83	518.52	0
518	Cadmium (mg / kg (ppm))	0425	0.43500	0.01000	0.34600	0.06493	0.02069	20	1.37	518.34	0
520	Chromium (mg / kg (ppm))	2113	2.2500	0.10000	3.1583	0.42493	0.13486	19	-2.14	520.52	0
520	Chromium (mg / kg (ppm))	0278	2.4850	0.01000	3.1583	0.42493	0.13486	19	-1.58	520.43	0
520	Chromium (mg / kg (ppm))	0047	2.4850	0.03000	3.1583	0.42493	0.13486	19	-1.58	520.52	0
520	Chromium (mg / kg (ppm))	0870	2.6300	0.02000	3.1583	0.42493	0.13486	19	-1.24	520.43	0
520	Chromium (mg / kg (ppm))	0033	2.6900	0.12000	3.1583	0.42493	0.13486	19	-1.10	520.53	0
520	Chromium (mg / kg (ppm))	2058	2.7275	0.12900	3.1583	0.42493	0.13486	19	-1.01	520.53	0
520	Chromium (mg / kg (ppm))	0186	2.7350	0.03000	3.1583	0.42493	0.13486	19	-1.00	520.52	0
520	Chromium (mg / kg (ppm))	0010	2.8450	0.19000	3.1583	0.42493	0.13486	19	-0.74	520.53	0
520	Chromium (mg / kg (ppm))	0511	3.0000	0.00000	3.1583	0.42493	0.13486	19	-0.37	520.41	0
520	Chromium (mg / kg (ppm))	0553	3.0450	0.15000	3.1583	0.42493	0.13486	19	-0.27	520.53	0
520	Chromium (mg / kg (ppm))	0098	3.2000	0.02000	3.1583	0.42493	0.13486	19	0.10	520.43	0
520	Chromium (mg / kg (ppm))	2141	3.2050	0.15000	3.1583	0.42493	0.13486	19	0.11	520.43	0
520	Chromium (mg / kg (ppm))	0964	3.2324	0.34970	3.1583	0.42493	0.13486	19	0.17	520.43	0
520	Chromium (mg / kg (ppm))	2033	3.2500	0.30000	3.1583	0.42493	0.13486	19	0.22	520.43	0
520	Chromium (mg / kg (ppm))	0510	3.5700	0.06000	3.1583	0.42493	0.13486	19	0.97	520.43	0
520	Chromium (mg / kg (ppm))	0208	4.1100	0.08000	3.1583	0.42493	0.13486	19	2.24	520.41	0
520	Chromium (mg / kg (ppm))	0042	4.1450	0.47000	3.1583	0.42493	0.13486	19	2.32	520.42	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Your	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests	Z Score	Method	
520	Chromium (mg / kg (ppm))	0918	4.1854	0.25370	3.1583	0.42493	0.13486	19	2.42	520.53	0
520	Chromium (mg / kg (ppm))	2207	4.4500	0.10000	3.1583	0.42493	0.13486	19	3.04	520.52	0
520	Chromium (mg / kg (ppm))	0227	3.4500	0.70000	3.1583	0.42493	0.13486	19	0.69	520.31	1
526	Lead (mg / kg (ppm))	0683	3.8785	0.02900	5.0004	0.62782	0.24200	23	-1.79	526.31	0
526	Lead (mg / kg (ppm))	0278	4.0510	0.01400	5.0004	0.62782	0.24200	23	-1.51	526.43	0
526	Lead (mg / kg (ppm))	2114	4.1650	0.03000	5.0004	0.62782	0.24200	23	-1.33	526.43	0
526	Lead (mg / kg (ppm))	0407	4.4230	0.00910	5.0004	0.62782	0.24200	23	-0.92	526.41	0
526	Lead (mg / kg (ppm))	0047	4.4400	0.14000	5.0004	0.62782	0.24200	23	-0.89	526.52	0
526	Lead (mg / kg (ppm))	0227	4.4900	0.30000	5.0004	0.62782	0.24200	23	-0.81	526.53	0
526	Lead (mg / kg (ppm))	2113	4.7000	0.20000	5.0004	0.62782	0.24200	23	-0.48	526.52	0
526	Lead (mg / kg (ppm))	0010	4.8500	0.30000	5.0004	0.62782	0.24200	23	-0.24	526.53	0
526	Lead (mg / kg (ppm))	0186	4.8950	0.01000	5.0004	0.62782	0.24200	23	-0.17	526.52	0
526	Lead (mg / kg (ppm))	2058	4.9885	0.06100	5.0004	0.62782	0.24200	23	-0.02	526.53	0
526	Lead (mg / kg (ppm))	0553	4.9900	0.08000	5.0004	0.62782	0.24200	23	-0.02	526.53	0
526	Lead (mg / kg (ppm))	0964	5.0377	0.06350	5.0004	0.62782	0.24200	23	0.06	526.43	0
526	Lead (mg / kg (ppm))	2033	5.0700	0.44000	5.0004	0.62782	0.24200	23	0.11	526.53	0
526	Lead (mg / kg (ppm))	0033	5.0850	0.95000	5.0004	0.62782	0.24200	23	0.13	526.53	0
526	Lead (mg / kg (ppm))	0098	5.1750	0.21000	5.0004	0.62782	0.24200	23	0.28	526.53	0
526	Lead (mg / kg (ppm))	0425	5.2850	0.03000	5.0004	0.62782	0.24200	23	0.45	526.34	0
526	Lead (mg / kg (ppm))	0208	5.4350	0.07000	5.0004	0.62782	0.24200	23	0.69	526.52	0
526	Lead (mg / kg (ppm))	0870	5.4400	0.16000	5.0004	0.62782	0.24200	23	0.70	526.43	0
526	Lead (mg / kg (ppm))	0918	5.5724	0.14890	5.0004	0.62782	0.24200	23	0.91	526.53	0
526	Lead (mg / kg (ppm))	0563	5.5866	0.18060	5.0004	0.62782	0.24200	23	0.93	526.34	0
526	Lead (mg / kg (ppm))	2141	5.6300	1.1600	5.0004	0.62782	0.24200	23	1.00	526.43	0
526	Lead (mg / kg (ppm))	2207	5.6500	0.30000	5.0004	0.62782	0.24200	23	1.03	526.52	0
526	Lead (mg / kg (ppm))	0042	8.3400	0.68000	5.0004	0.62782	0.24200	23	5.32	526.42	0
526	Lead (mg / kg (ppm))	0504	8.1970	3.9460	5.0004	0.62782	0.24200	23	5.09	526.43	1
529	Mercury (µg / kg (ppb))	0033	791.00	38.000	998.25	159.73	33.300	10	-1.30	529.99	0
529	Mercury (µg / kg (ppb))	0208	889.00	4.0000	998.25	159.73	33.300	10	-0.68	529.99	0
529	Mercury (µg / kg (ppb))	0186	957.50	19.000	998.25	159.73	33.300	10	-0.26	529.99	0
529	Mercury (µg / kg (ppb))	0227	958.00	18.000	998.25	159.73	33.300	10	-0.25	529.99	0
529	Mercury (µg / kg (ppb))	2033	965.50	51.000	998.25	159.73	33.300	10	-0.21	529.99	0
529	Mercury (µg / kg (ppb))	0553	997.00	46.000	998.25	159.73	33.300	10	-0.01	529.99	0
529	Mercury (µg / kg (ppb))	0010	998.00	48.000	998.25	159.73	33.300	10	0.00	529.99	0
529	Mercury (µg / kg (ppb))	0098	1,070.0	40.000	998.25	159.73	33.300	10	0.45	529.99	0
529	Mercury (µg / kg (ppb))	2207	1,151.0	44.000	998.25	159.73	33.300	10	0.96	529.99	0
529	Mercury (µg / kg (ppb))	0683	1,465.5	25.000	998.25	159.73	33.300	10	2.93	529.00	0
529	Mercury (µg / kg (ppb))	0918	1,183.5	355.00	998.25	159.73	33.300	10	1.16	529.99	1
529	Mercury (µg / kg (ppb))	2114	0.00130	0.00000	998.25	159.73	33.300	10	-6.25	529.99	3
529	Mercury (µg / kg (ppb))	0047	0.83500	0.07000	998.25	159.73	33.300	10	-6.24	529.99	3
529	Mercury (µg / kg (ppb))	0425	0.94000	0.02000	998.25	159.73	33.300	10	-6.24	529.00	3
539	Nickel (mg / kg (ppm))	0047	153.75	4.9000	225.92	15.985	10.137	20	-4.51	539.52	0

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
539	Nickel (mg / kg (ppm))	0278	176.55	2.8100	225.92	15.985	10.137	20	-3.09	539.43	0
539	Nickel (mg / kg (ppm))	0010	179.50	5.0000	225.92	15.985	10.137	20	-2.90	539.53	0
539	Nickel (mg / kg (ppm))	2113	210.00	0.00000	225.92	15.985	10.137	20	-1.00	539.52	0
539	Nickel (mg / kg (ppm))	2033	214.25	12.500	225.92	15.985	10.137	20	-0.73	539.43	0
539	Nickel (mg / kg (ppm))	0186	216.00	12.000	225.92	15.985	10.137	20	-0.62	539.52	0
539	Nickel (mg / kg (ppm))	0918	220.92	4.1467	225.92	15.985	10.137	20	-0.31	539.53	0
539	Nickel (mg / kg (ppm))	0227	222.50	5.0000	225.92	15.985	10.137	20	-0.21	539.33	0
539	Nickel (mg / kg (ppm))	0407	223.67	2.0804	225.92	15.985	10.137	20	-0.14	539.41	0
539	Nickel (mg / kg (ppm))	0208	227.00	0.00000	225.92	15.985	10.137	20	0.07	539.41	0
539	Nickel (mg / kg (ppm))	0964	227.27	6.4490	225.92	15.985	10.137	20	0.08	539.43	0
539	Nickel (mg / kg (ppm))	0870	228.70	6.2000	225.92	15.985	10.137	20	0.17	539.43	0
539	Nickel (mg / kg (ppm))	0098	229.00	18.000	225.92	15.985	10.137	20	0.19	539.53	0
539	Nickel (mg / kg (ppm))	2207	232.95	26.100	225.92	15.985	10.137	20	0.44	539.52	0
539	Nickel (mg / kg (ppm))	0553	237.00	22.000	225.92	15.985	10.137	20	0.69	539.53	0
539	Nickel (mg / kg (ppm))	2114	240.27	0.93000	225.92	15.985	10.137	20	0.90	539.43	0
539	Nickel (mg / kg (ppm))	0186	242.50	13.000	225.92	15.985	10.137	20	1.04	539.42	0
539	Nickel (mg / kg (ppm))	0504	253.65	17.300	225.92	15.985	10.137	20	1.73	539.43	0
539	Nickel (mg / kg (ppm))	2141	256.67	15.330	225.92	15.985	10.137	20	1.92	539.43	0
539	Nickel (mg / kg (ppm))	0511	258.50	29.000	225.92	15.985	10.137	20	2.04	539.41	0
539	Nickel (mg / kg (ppm))	0042	241.00	56.000	225.92	15.985	10.137	20	0.94	539.42	1

Notes: Interpreting Z Scores: Red indicates a normally distributed Z value >3 or <-3 (requires action), Orange = Z between 2 and 3 or -2 and -3 (warning) and Green = Z < 2 and >-2 (OK at 95%). Flags indicate data usage: 0 = Used, 1 = Rejected for duplicates too far apart, 2 = Rejected as outlier, 5 = A reporting limit and 4 = zeros submitted as values. Robust statistics not used if < 6 labs reporting, in the case of 4 or 5 labs reporting Means and SD's may be reported based on Raw Data with obvious blunders removed (Mandel h and k exclusions apply; Grey). Flag 3 indicates not used in statistics.