



Thermo Fisher Scientific
900 Middlesex Turnpike
Billerica, MA 01821

Certificate of Verification

XL3-67432

Reading No 1
Mode Mining
Time 2017-08-18 09:10
Duration 122.91
Units ppm
Sigma Value 2
Sequence Final
Flags
SAMPLE
LOCATION
INSPECTOR
MISC
NOTE



	ppm	±	Error
Total%	1136.032	±	0.000
Bal	316260.344	±	13195.574
Mg	22748.004	±	15323.347
Al	1.000	±	3853.961
Si	12177.329	±	588.127
P	1.000	±	301.127
K	1.000	±	199.738
Ca	35152.930	±	1263.165
Ti	1.000	±	79.853
Mn	200.030	±	80.728
Fe	264.325	±	76.680
S	95618.047	±	1492.507
Cl	1.000	±	53.365
V	1.000	±	45.552
Cr	58.237	±	50.201
Co	281.410	±	45.588
Ni	57.541	±	48.994
Cu	63411.895	±	1289.690
Zn	451057.625	±	9386.870
Ga	1.000	±	60.633
As	1.000	±	55.103
Rb	11.633	±	11.548
Sr	1.000	±	4.395
Zr	1.000	±	24.388
Nb	30.707	±	9.749
Mo	1.000	±	5.695
Ag	364.931	±	260.665
Cd	396.142	±	44.270
Sn	70.737	±	69.109
Ba	381.421	±	149.104
Sb	1.000	±	44.072
Hg	1174.746	±	160.321
Pb	239.944	±	48.622
Th	1.000	±	1244.235
U	1.000	±	40.641
Se	42.051	±	30.036
Pd	1.000	±	10.489
W	1.000	±	1761.731
Au	1.000	±	42.014
Bi	1.000	±	352.808



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Billerica, MA 01821

Certificate of Verification

XL3-67432

Reading No 2
Mode Mining
Time 2017-08-18 09:14
Duration 120.97
Units ppm
Sigma Value 2
Sequence Final
Flags
SAMPLE
LOCATION
INSPECTOR
MISC
NOTE



	ppm	±	Error
Total%	1032.236	±	0.000
Bal	515840.844	±	7449.508
Mg	1.000	±	15968.585
Al	2420.526	±	1756.299
Si	14097.804	±	636.902
P	1.000	±	333.726
K	429.874	±	195.043
Ca	34296.051	±	1156.989
Ti	1.000	±	67.541
Mn	4996.971	±	206.465
Fe	9462.128	±	235.424
S	76265.609	±	1312.073
Cl	388.000	±	48.954
V	1.000	±	34.303
Cr	139.590	±	42.913
Co	669.966	±	82.396
Ni	193.768	±	50.227
Cu	8998.719	±	237.494
Zn	327390.281	±	5998.857
Ga	1.000	±	50.125
As	1.000	±	98.423
Rb	21.502	±	15.753
Sr	1.000	±	3.839
Zr	1.000	±	36.396
Nb	1.000	±	15.181
Mo	1.000	±	4.885
Ag	364.210	±	260.150
Cd	497.191	±	36.804
Sn	95.932	±	49.425
Ba	359.282	±	103.935
Sb	1.000	±	37.452
Hg	1430.527	±	142.472
Pb	1584.762	±	96.185
Th	1.000	±	2175.075
U	1.000	±	33.318
Se	56.594	±	40.424
Pd	1.000	±	8.475
W	1.000	±	1462.719
Au	1.000	±	32.587
Bi	1.000	±	512.655