



Test Report

TEST 009.esws



Agilent Technologies

Solution Name: 1 1

Solution Name	Date	Rack-Tube	Weight (g)	Volume (mL)	DilLdion
1 1	1 2/1 3/2023 PM		1	1	1

Label	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Calculated Concentration
Ag (328.068 nm)	-0.000061	ppm	0.0001 74	> 100.00	55.453300 !	-0.000061
Ag (338.289 nm)	0.001383 !	ppm	0.000687	49.65	33.885356 !	0.001383 !
Al (167.019 nm)	-0.0001 60	ppm	0.000216	> 100.00	9.094919 !	-0.000160
Al (396.152 nm)	0.1 1 2574 !	ppm	0.014148	12.57	5848.006855 !	0.1 12574 !
As (188.980 nm)	0.001 935	ppm	0.003206	> 100.00	17.106070 !	0.001935
As (193.696 nm)	0.005053	ppm	0.004988	98.72	22.099150 !	0.005053
Au (242.794 nm)	0.028491 '	ppm	0.002562	8.99	198.271351	0.028491
Au (267.594 nm)	0.009196 !	ppm	0.00061 1	6.65	1 10.804654 !	0.009196 !
B (249.678 nm)	0.010235 !	ppm	0.000805	7.86	321.591 160 !	0.010235 !
B (249.772 nm)	0.003723 !	ppm	0.000300	8.06	276.170225 !	0.003723 !
Ba (233.527 nm)	0.00091 1	ppm	0.000294	32.30	131.024407 !	0.000911 '
Ba (455.403 nm)	0.007945 !	ppm	0.001918	24.15	31314.880319 !	0.007945 !
Be (234.861 nm)	0.000083 !	ppm	0.000029	35.19	27.387773 !	0.000083 !
Be (313.042 nm)	0.003807 !	ppm	0.000045	1.1 7	10404.949235 !	0.003807 !
Bi (222.821 nm)	-0.00551 6	ppm	0.005668	> 100.00	18.702303 !	-0.005516
Bi (223.061 nm)	0.004406 !	ppm	0.000989	22.46	37.650068 !	0.004406 !
ca (393.366 nm)	1.504768	ppm	0.01 1261	0.75	6959748.652850 !	1.504768
ca (396.847 nm)	0.736605	ppm	0.003810	0.52	40051 71.954335 !	0.736605
Cd (214.439 nm)	0.000735 !	ppm	0.000109	14.79	61.204047 !	0.000735 !
Cd (226.502 nm)	0.000049	ppm	0.000094	> 100.00	22.128424 !	0.000049
Ce (418.659 nm)	-0.00091 5	ppm	0.000355	38.80	29.204415 !	-0.000915
Ce (446.021 nm)	0.010280 !	ppm	0.001505	14.64	537.093477 !	0.010280 !
co (228.615 nt-n)	1.460552 !	ppm	0.014834	1.02	24768.662576 !	1.460552 !
co (238.892 nrn)	1.5041 79 !	ppm	0.013391	0.89	29479.003333 !	1.504179 !
Cr (205.560 nm)	0.006909 !	ppm	0.000355	5.14	135.406670 !	0.006909 !
Cr (267.716 nm)	0.01 6071	ppm	0.000647	4.03	745.294218 !	0.016071
Cs (459.31 1 nm)	128.951812	ppm	2.287798	1.77	3713.274109 !	128.951812
Cs (697.327 nm)	0.092716	ppm	0.854702	> 100.00	77.737631 !	0.092716
cu (324.754 nm)	6.046607	ppm	0.094915	1.57	303018.685130 !	6.046607
cu (327.395 nm)	2.001 606 !	ppm	0.01 1 695	0.58	99900.0771 75 !	2.001606 !
Dy (340.780 nm)	-0.005776	ppm	0.000658	1 1.39	-134.089731 !	-0.005776
Dy (353.171 nm)	0.000527 !	ppm	0.000421	80.03	62.719983 !	0.000527 !
Er (337.275 nm)	0.003861	ppm	0.000530	13.71	151.219307 !	0.003861
Er (349.910 nm)	0.000019	ppm	0.000501	> 100.00	108.6221 18 !	0.000019
Eu (381.967 nm)	0.000060	ppm	0.0001 1 7	> 100.00	23.622073 !	0.000060
Eu (420.504 nm)	0.000218 !	ppm	0.0001 1 6	53.33	249.205109 !	0.000218 !
Fe (238.204 nm)	0.791 750 !	ppm	0.020383	2.57	41 121.696805 !	0.791 750 !
Fe (259.940 nm)	0.81 !	ppm	0.008708	1.07	18631.142577 !	0.811 760 !
Ga (294.363 nm)	0.021254 !	ppm	0.001027	4.83	240.553983 !	0.021254 !
Ga (417.204 nm)	-0.005574	ppm	0.001566	28.09	287.047614 !	-0.005574
Gd (335.048 nm)	0.010042 !	ppm	0.000806	8.02	437.103631	0.010042 !
Gd (342.246 nm)	-0.000880	ppm	0.000079	9.00	-15.949930 !	-0.000880
Ge (209.426 nm)	0.016976 !	ppm	0.005481	32.29	36.603817 !	0.016976 !
Ge (265.1 17 nm)	0.060798 !	ppm	0.002792	4.59	177.359675 !	0.060798 !





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Labei	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Calculated Concentration
Hf (263.872 nm)	-0.00651 3	ppm	0.000238	3.66	36.707974 !	-0.006513
Hf (264.141 nm)	0.008737 !	ppm	0.000994	1 1.38	153.218738 !	0.008737 !
Hg (184.887 nm)	-0.001 1 56	ppm	0.000575	49.78	14.429497 !	-0.001 156
Hg (194.164 nm)	-0.005452	ppm	0.001026	18.81	3.410670 !	-0.005452
Ho (339.895 nm)	0.001004 !	ppm	0.000176	1 7.54	146.420648 !	0.001004 !
Ho (345.600 nm)	-0.000219 !	ppm	0.000171	77.90 14.96	42.040394 !	-0.000219
In (230.606 nm)	0.033774	ppm	0.005054		78.466990 !	
In (325.609 nm)	0.077572 !	ppm	0.002601	3.35	542.792045 !	0.077572 !
Ir (212.681 nm)	-0.003608	ppm	0.000804	22.28	1 1.482519 !	-0.003608
Ir (224.268 nm)	1.740571 !	ppm	0.005328	0.31	7953.485108 !	1.740571 !
K (766.491 nm)	0.302923 !	ppm	0.001466	0.48	28446.184423 !	0.302923 !
K (769.897 nm)	0.445835 !	ppm	0.000978	0.22	46896.848764 !	0.445835 !
La (333.749 nm)	0.016269 !	ppm	0.000212	1.31	1473.889489 !	0.016269 !
La (379.477 nm)	-0.000672	ppm	0.000050	7.51	50.491498 !	-0.000672
Li (610.365 nm)	-0.000679	ppm	0.000135	19.81	109.658221 !	-0.000679
Li (670.783 nm)	0.000040 !	ppm	0.000024	59.06	6227.913712 !	0.000040 !
Lu (261.541 nm)	0.000664 !	ppm	0.000074		219.230631 !	0.000664 !
Lu (291.139 nm)	-0.004262	ppm	0.002328	54.62	-42.320392 !	-0.004262
Mg (279.553 nm)	0.049275 !	ppm	0.000260	0.53	58552.073186 !	0.049275 !
Mg (280.270 nm)	0.035890 !	ppm	0.000161	0.45	1 1069.843158 !	0.035890 !
Mn (257.610 nm)	0.006316 !	ppm	0.000092	1.46	1854.158339 !	0.006316 !
Mn (259.372 nm)	0.01 1046 !	ppm	0.000208	1.88	1671.613631 !	0.011046 !
Mo (202.032 nm)	0.001245 !	ppm	0.001363	> 100.00	48.415084 !	0.001245 !
Mo (204.598 nm)	0.004010 !	ppm	0.001077	26.84	70.777989 !	0.004010 !
Na (588.995 nm)	1.573529 !	ppm	0.005970	0.38	1089895.857275 !	1.573529 !
Na (589.592 nm)	2.039293 !	ppm	0.005974	0.29	721343.147943 !	2.039293 !
Nb (309.417 nm)	0.002749 !	ppm	0.0002173	79.05	45.210247 !	0.002749 !
Nb (313.078 nm)	0.002157 !	ppm	0.000045	2.1 1	238.211621 !	0.002157 !
Nd (401.224 nm)	0.008646 !	ppm	0.002234	25.83	236.545845 !	0.008646 !
Nd (406.108 nm)	-0.000388	ppm	0.000625	> 100.00	100.537344 !	-0.000388
Ni (216.555 nm)	0.426955 !	ppm	0.002409	0.56	4135.952145 !	0.426955 !
Ni (231.604 nm)	1.268741 !	ppm	0.009529	0.75	8471.71 7545 !	1.268741 !
os (225.585 nm)	0.042664 !	ppm	0.001 198	2.81	284.364025 !	0.042664 !
os (228.228 nm)	0.024004 !	ppm	0.006299	26.24	53.797274 !	0.024004 !
p (177.434 nm)	-0.001 927	ppm	0.002378	> 100.00	4.734055 !	-0.001927
P (213.618 nm)	9.710601	ppm	0.029002	0.30	20342.450926 !	9.710601
Pb (182.143 nm)	-0.01 5852	ppm	0.003831	24.17	4.1 72968 !	-0.015852
Pb (220.353 nm)	0.518567 !	ppm	0.000775	0.15	1536.455094 !	0.518567 !
Pd (229.651 nm)	0.063231	ppm	0.008088	12.79	143.422816 !	0.063231 '
Pd (340.458 nm)	0.003290 !	ppm	0.000010	0.31	103.566471 '	0.003290 !
Pr (390.843 nm)	0.008917 !	ppm	0.001773	19.88	255.968279 !	0.008917 !



Analysis by Allschoolabs – analysis.allschoolabs.com

pr (417.939 nm)	0.003510 !	ppm	0.000818	23.32	192.843614 !	0.003510 !
Pt (203.646 nm)	0.002887	ppm	0.003824	> 100.00	23.008281 !	0.002887
Pt (214.424 nm)	0.002530 !	ppm	0.000320	12.65	40.264897 !	0.002530 !
Rb (420.179 nm)	-0.644272	ppm	0.431460	66.97	26.227250 !	-0.644272
Rb (780.026 nm)	0.081 765 !	ppm	0.003520		4029.004030 !	0.081 765 !
Re (221.427 nm)	0.038677 !	ppm	0.016162	41.79	136.162982 !	0.038677 !
Re (227.525 nm)	-0.002888	ppm	0.000584	20.23	14.233259 !	-0.002888
Rh (343.488 nm)	0.005625 !	ppm	0.003324	59.10	98.216454 !	0.005625 !



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Labei	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Calculated Concentration
Rh (369.236 nm)	0.052135 !	ppm	0.002441	4.68	967.552565 !	0.052135 !
Ru (245.657 nm)	-0.005669	ppm	0.000596	10.51	2.626985 !	-0.005669
Ru (267.876 nm)	0.006032 !	ppm	0.000846	14.02	109.494305 !	0.006032 !
S (180.669 nm)	-0.020340	ppm	0.007833	38.51	6.036413 !	-0.020340
S (181.972 nm)	-0.0351 73	ppm	0.003794	10.79	3.392621 !	-0.035173
Sb (206.834 nm)	-0.000678	ppm	0.001216	> 100.00	22.369189 !	-0.000678
Sb (217.582 nm) sc (335.372 nm)	0.003398 !	ppm	0.003538	31.59	42.125662 !	0.011 198 !
		ppm	0.000141	4.15	900.323340 !	0.003398 !
sc (361.383 nm)	0.000289 !	ppm	0.000077	26.57	139.319169 !	0.000289 !
Se (196.026 nm)	-0.000947	ppm	0.000470	49.62	14.633148 !	-0.000947
sc (203.985 nm)	0.027788 !	ppm	0.005314	19.12	44.783950 !	0.027788 !
Si (251.61 1 nm)	0.139009 !	ppm	0.001652	1.19	744.913960 !	0.139009 !
Si (288.158 nm)	-0.021 107	ppm	0.001235	5.85	387.392532 !	-0.021 107
Sm (359.259 nm)	0.016160 !	ppm	0.000715	4.42	584.576676 !	0.016160 !
Sm (360.949 nm)	0.025829 !	ppm	0.002845	1 1.01	563.129470 !	0.025829 !
Sn (189.925 nm)	0.010407 !	ppm	0.003083	29.62	37.841060 !	0.010407 !
Sn (283.998 nm)	-0.003765	ppm	0.001356	36.01	16.106799 !	-0.003765
sr (407.771 nm)	0.001321 !	ppm	0.000025	1 .88	13378.444028 !	0.001321 !
Sr (421.552 nm)	0.001451 !	ppm	0.000028	1 .93	7039.948231 !	0.001451 !
Ta (263.558 nm)	-0.006602	ppm	0.000902	13.67	8.135708 !	-0.006602
Ta (263.558 nm)	-0.006888	ppm	0.000739	1 0.73	5.894254 !	-0.006888
Tb (350.914 nm)	0.009830 !	ppm	0.000282	2.87	642.005524 !	0.009830 !
Tb (367.636 nm)	-0.004574	ppm	0.000766	16.76	-1 13.347437 !	-0.004574
Te (182.153 nm)	-0.025321 'u	ppm	0.006562	25.92	8.916238 !	-0.025321
Te (214.282 nm)	-0.00041 3	ppm	0.0041 10	> 100.00	34.521467 !	-0.000413
Th (269.242 nm)	-0.00661 6	ppm	0.002210	33.40	14.874442 !	-0.006616
Th (283.730 nm)	0.008605 !	ppm	0.004634	53.85	148.923789 !	0.008605 !
Ti (336.122 nm)	0.002802 !	ppm	0.0001 15	4.10	546.381202 !	0.002802 !
Ti (337.280 nm)	0.005295 !	ppm	0.000647	12.21	349.290093 !	0.005295 !
TI (190.794 nm)	0.006986 !	ppm	0.002476	35.44	14.275978 !	0.006986 !
TI (276.789 nm)	-0.01 0853	ppm	0.003715	34.23	6.615954 !	-0.010853
Tm (313.125 nm)	0.005852 !	ppm	0.000269	4.60	675.780630 !	0.005852 !
Tm (342.508 nm)	-0.000399	ppm	0.000088	22.08	60.556236 !	-0.000399
U (367.007 nm)	0.130420 !	ppm	0.008582	6.58	768.0781 19 !	0.130420 !
U (385.957 nm)	0.001558 !	ppm	0.001 154	74.03	93.841364 !	0.001558 !
V (292.401 nm)	0.000253 !	ppm	0.000249	98.28	43.459468 !	0.000253 !
V (309.310 nm)	-0.002059	ppm	0.000261	12.68	-91.753380 !	-0.002059
W (207.912 nm)	0.010239 !	ppm	0.001754	1 7.1 3	59.547063 !	0.010239 !
W (209.475 nm)	0.055845 !	ppm	0.003914	7.01	126.976699 !	0.055845 !
Y (360.074 nm)	0.003055 !	ppm	0.000267	8.74	941.326256 !	0.003055 !



Y (371.029 nm)	0.000670 !	ppm	0.0001 1 6	1 7.29	179.237439 !	0.000670 !
Yb (328.937 nm)	-0.0001 1 8	ppm	0.00001 7	14.48	-35.738622 !	-0.000118
Yb (369.419 nm)	0.0001 50 !	ppm	0.000044	29.14	81.868535 !	0.0001 50 !
Zn (202.548 nm)	0.074830 !	ppm	0.002931	3.92	2044.048756 !	0.074830 !
Zn (213.857 nm)	0.023716 !	ppm	0.001 757	7.41	1379.658952 !	0.023716 !
Zr (339.198 nm)	0.000677 !	ppm	0.000315	46.54	92.159381 !	0.000677 !
Zr (343.823 nm)	0.004192 !	ppm	0.000209	4.99	627.783147 !	0.004192 !

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Solution Name	Date	RackTube	Weight (g)	Volume (mL)	DilLNion
1 2	1 2/1 3/2023 PM		1	1	1

Label	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Calculated Concentration
Ag (328.068 nm)	001 801 2 !	ppm	0.000431	2.39	1377.071422 !	0.018012 !
Ag (338.289 nm)	0.082356 !	ppm	0.002051	2.49	516.734705 !	0.082356 !
Al (167.019 nm)	-0.001 534	ppm	0.000432	28.16	1.295983 !	-0.001534
Al (396.152 nm)	0.099091 !	ppm	0.001044	1 .05	5155.842282 !	0.099091 !
As (188.980 nm)	0.005014 !	ppm	0.001 71 1	34.12	22.202735 !	0.005014 !
As (193.696 nm)	-0.001 326	ppm	0.004026	> 100.00	15.769125 !	-0.001326
Au (242.794 nm)	0.022159 !	ppm	0.002185	9.86	160.595606 !	0.022159 !
Au (267.594 nm)	0.015634 !	ppm	0.007309	46.75	170.283464 !	0.015634 !
B (249.678 nm)	0.004524 !	ppm	0.000103	2.29	183.449071	0.004524 !
B (249.772 nm)	0.005956 !	ppm	0.000131	2.19	367.665777 !	0.005956 !
Ba (233.527 nm)	0.002568 !	ppm	0.0001 1 8	4.59	309.874683 !	0.002568 !
Ba (455.403 nm)	0.014608 !	ppm	0.000352	2.41	56238.289700 !	0.014608 !
Be (234.861 nm)	0.000045 !	ppm	0.000005	10.81	16.813360 !	0.000045 !
Be (313.042 nm)	0.003435 !	ppm	0.000029	0.85	9402.193978 !	0.003435 !
Bi (222.821 nm)	0.004055	ppm	0.006941	> 100.00	29.705016 !	0.004055
Bi (223.061 nm)	0.000685	ppm	0.004339	> 100.00	24.753294 !	0.000685
ca (393.366 nm)	1.625615	ppm	0.004764	0.29	7517072.973938 !	1.625615
ca (396.847 nm)	0.839730	ppm	0.007323	0.87	4563324.392372 !	0.839730
Cd (214.439 nm)	0.000186	ppm	0.000201	> 100.00	30.725643 !	0.000186
Cd (226.502 nm)	0.000207 !	ppm	0.000109	52.58	32.367806 !	0.000207 !
Ce (418.659 nm)	-0.001 829	ppm	0.000208	1 1.37	-1 1.987243 !	-0.001829
Ce (446.021 nm)	0.007712 !	ppm	0.000635	8.23	417.662896 !	0.007712 !
co (228.615 nm)	0.01 1367 !	ppm	0.000203	1.79	221.726269 !	0.011367 !
co (238.892 nm)	0.023786 !	ppm	0.000474	1.99	482.804965 !	0.023786 !
Cr (205.560 nm)	0.419156 !	ppm	0.03591 3	8.57	6897.390388 !	0.419156 !
Cr (267.716 nm)	0.670687 !	ppm	0.006557	0.98	29095.432016 !	0.670687 !
cs (459.31 1 nm)	166.699645	ppm	2.205568	1.32	4749.514016 !	166.699645
cs (697.327 nm)	0.641366	ppm	1.002649	> 100.00	120.262532 !	0.641366
cu (324.754 nm)	4.034778 !	ppm	0.040542		202420.158186 !	4.034778 !
cu (327.395 nm)	1.273643 !	ppm	0.0101 73	0.80	63577.314220 !	1.273643 !
Dy (340.780 nm)	-0.0021 57	ppm	0.000081	3.76	3.127915 !	-0.002157
Dy (353.171 nm)	-0.000301 'u	ppm	0.000086	28.69	7.685417 !	-0.000301
Er (337.275 nm)	0.006473 !	ppm	0.000677	10.46	239.175877 !	0.006473 !
Er (349.910 nm)	0.000370 !	ppm	0.000199	53.62	137.007950 !	0.000370 !



Eu (381.967 nm)	0.000027	ppm	0.000039	> 100.00	19.255822 !	0.000027
Eu (420.504 nm)	0.000517 !	ppm	0.000129	24.86	427.471911 '	0.000517 !
Fe (238.204 nm)	0.043068 !	ppm	0.000247	0.57	2355.154132 !	0.043068 !
Fe (259.940 nm)	0.039335 !	ppm	0.000970	2.47	926.904261	0.039335 !
Ga (294.363 nm)	0.018979 !	ppm	0.001921	10.12	216.411522 !	0.018979
Ga (417.204 nm)	-0.008073	ppm	0.001268	15.70	231.749623 !	-0.008073
Gd (335.048 nm)	0.007118 !	ppm	0.000461	6.48	316.566625 !	0.007118 !
Gd (342.246 nm)	-0.000383	ppm	0.000055	14.47	32.329718 !	-0.000383
Ge (209.426 nm)	0.012508 !	ppm	0.005419	43.32	31.218019 !	0.012508 !
Ge (265.117 nm)	0.074302 !	ppm	0.005578	7.51	217.300592 !	0.074302 !



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Labei	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Calculated Concentration
Hf (263.872 nm)	-0.006398	ppm	0.000294	4.59	39.248892 !	-0.006398
Hf (264.141 nm)	0.009540 !	ppm	0.000738	7.74	166.829206 !	0.009540 !
Hg (184.887 nm)	-0.001 700	ppm	0.000294	1 7.32	12.539837 !	-0.001700
Hg (194.164 nm)	-0.0051 96	ppm	0.000564	10.84	4.296381 !	-0.005196
Ho (339.895 nm)	0.001095 !	ppm	0.000111	10.12	150.384641	0.001095 !
Ho (345.600 nm)	-0.001 323	ppm	0.000086	6.52	-0.623510 !	-0.001323
In (230.606 nm)	0.009040 !	ppm	0.010758	> 100.00	39.485950 !	0.009040 !
In (325.609 nm)	0.061828 !	ppm	0.010807	1 7.48	446.893830 !	0.061828 !
Ir (212.681 nm)	-0.006430	ppm	0.001 1 23	1 7.47	-3.263044 !	-0.006430
Ir (224.268 nm)	1.024524 !	ppm	0.006764	0.66	4687.153112 !	1.024524 !
K (766.491 nm)	0.264426 !	ppm	0.001 136	0.43	24840.286678 !	0.264426 !
K (769.897 nm)	0.397619 !	ppm	0.001250	0.31	43450.653225 !	0.397619 !
La (333.749 nm)	0.017216 !	ppm	0.000167	0.97	1556.61 1526 !	0.017216 !
La (379.477 nm)	-0.000557	ppm	0.000047	8.42	66.347841 !	-0.000557
Li (610.365 nm)	-0.000558	ppm	0.000418	75.00	128.544021 !	-0.000558
Li (670.783 nm)	0.000450 !	ppm	0.000042	9.35	7920.871408 !	0.000450 !
Lu (261.541 nm)	0.000533 !	ppm	0.000007	1.37	184.247340 !	0.000533 !
Lu (291.139 nm)	-0.005598	ppm	0.001640	29.30	-63.526466 !	-0.005598
Mg (279.553 nm)	0.077706 !	ppm	0.000297	0.38	91814.556183 !	0.077706 !
Mg (280.270 nm)	0.050085 !	ppm	0.000781	1 .56	15347.660419 !	0.050085 !
Mn (257.610 nm)	0.295240 !	ppm	0.003812	1 .29	84646.470204 !	0.295240 !
Mn (259.372 nm)	0.407953 !	ppm	0.006395	1.57	60553.896204 !	0.407953 !
Mo (202.032 nm)	0.001247 !	ppm	0.000733	58.76		0.001247 !
Mo (204.598 nm)	0.002488 !	ppm	0.000809	32.52	57.829488 !	0.002488 !
Na (588.995 nm)	1.576624 !	ppm	0.015371	0.97	1091981.185719 !	1.576624 !
Na (589.592 nm)	1.696092 !	ppm	0.016271	0.96	600040.655106 !	1.696092 !
Nb (309.417 nm)	0.000403	ppm	0.001041	> 100.00	13.696979 !	0.000403
Nb (313.078 nm)	0.002386 !	ppm	0.000382	15.99	251.594384 !	0.002386 !
Nd (401.224 nm)	0.008126 !	ppm	0.000956	1 1.76	226.146627 !	0.008126 !
Nd (406.108 nm)	-0.001 383	ppm	0.000093	6.72	61.321754 !	-0.001383
Ni (216.555 nm)	0.000328	ppm	0.001 75	> 100.00	37.441775 !	0.000328
Ni (231.604 nm)	0.007488 !	ppm	0.001478	19.74	61.217772 !	0.007488 !
os (225.585 nm)	0.010808 !	ppm	0.001066	9.86	78.606512 !	0.010808 !
os (228.228 nm)	0.024997 !	ppm	0.005401	21.61	55.674071 !	0.024997 !
p (177.434 nm)	0.000419	ppm	0.001 903	> 100.00	6.982313 !	0.000419
P (213.618 nm)	4,640923 !	ppm	0.022567	0.49	9726.064164 !	4,640923 !
Pb (182.143 nm)	-0.007632	ppm	0.006236	81.71	10.608806 !	-0.007632
Pb (220.353 nm)	4.227958 !	ppm	0.026419	0.62	12432.956651 !	4.227958 !
Pd (229.651 nm)	-0.009723	ppm	0.003973	40.86	-2.361483 !	-0.009723



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Pd (340.458 nm)	0.005082 !	ppm	0.001438	28.29	148.017716 !	0.005082 !
Pr (390.843 nm)	0.008101 !	ppm	0.000132	1 .63	243.476560 !	0.008101 !
pr (417.939 nm)	0.003907 !	ppm	0.000806	20.64	207.627489 !	0.003907 !
Pt (203.646 nm)	-0.009365	ppm	0.001316	14.05	4.712524 !	-0.009365
Pt (214.424 nm)	0.002239	ppm	0.002337	> 100.00	39.246887 !	0.002239
Rb (420.179 nm)	0.668754	ppm	1.107480	> 100.00	175.456985 !	0.668754
Rb (780.026 nm)	0.174060 !	ppm	0.002004	1 .1 5	6353.105344 !	0.174060 !
Re (221.427 nm)	0.053817 !	ppm	0.001792	3.33	184.051244 !	0.053817 !
Re (227.525 nm)	0.010676 !	ppm	0.001267	1 1.87	100.091320 !	0.010676 !
Rh (343.488 nm)	0.002746 !	ppm	0.001456	53.03	54.908104 !	0.002746 !



Test Report

TEST 009.esws



Agilent Technologies

Labei	Solution Concentration	Unit	Conc SD	Conc %RSD	Intensity (c/s)	Calculated Concentration
Rh (369.236 nm)	0.071859 ! -	ppm	0.002439	3.39		0.071859 !
Ru (245.657 nm)	0.0061 32	ppm	0.001 3	19.79	-0.886758 !	-0.006132
Ru (267.876 nm)	0.064424 !	ppm	0.002493	3.87	748.091580 !	0.064424 !
S (180.669 nm)	-0.027853	ppm	0.004340	15.58	3.080061 !	-0.027853
S (181.972 nm)	-0.029422	ppm	0.004949	16.82	7.702764 !	-0.029422
Sb (206.834 nm)	-0.007277	ppm	0.00271 3	37.29	1 1.59291 1 !	-0.007277
Sb (217.582 nm)	0.012468 !	ppm	0.001544	12.38	4422761 1 !	0.012468 !
sc (335.372 nm)	0.003039 !	ppm	0.000087	2.88	812.838027 !	0.003039 !
sc (361.383 nm)	0.000444 !	ppm	0.000024	5.46	197.674693 !	0.000444 !
Se (196.026 nm)	-0.0051 33	ppm	0.001347	26.25	9.085945 !	-0.005133
se (203.985 nm)	0.01 1 570 !	ppm	0.006542	56.54	33.156941 !	0.011570 !
Si (251.61 1 nm)	0.255988 !	ppm	0.000560	0.22	1331.659638 !	0.255988 !
Si (288.158 nm)	0.059749 !	ppm	0.006530	1 0.93	1 135.322425 !	0.059749 !
Sm (359.259 nm)	0.019887 !	ppm	0.00101 7	5.1 1	703.453543 !	0.019887 !
Sm (360.949 nm)	0.021079 !	ppm	0.001 463	6.94	462.506584 !	0.021079 !
Sn (189.925 nm)	0.014101	ppm	0.000955	6.77	46.686024 !	0.014101
Sn (283.998 nm)	0.044230 !	ppm	0.001762	3.98	146.353485 !	0.044230 !
sr (407.771 nm)	0.001 926 !	ppm	0.000020	1.06	19367.02721 1 !	0.001926 !
Sr (421.552 nm)	0.002120 !	ppm	0.000028	1.32	10209.800085 !	0.002120 !
Ta (263.558 nm)	-0.002230	ppm	0.001260	56.48	37.358107 !	-0.002230
Ta (263.558 nm)	-0.002849	ppm	0.001 108	38.90	32.986403 !	-0.002849
Tb (350.914 nm)	0.01 1 753 !	ppm	0.000631	5.37	744.285058 !	0.011753 !
Tb (367.636 nm)	-0.005379	ppm	0.000742	13.79	-134.530236 !	-0.005379
Te (182.153 nm)	-0.021 626	ppm	0.010606	49.04	10.045086 !	-0.021626
Te (214.282 nm)	0.000259	ppm	0.005916	> 100.00	36.007253 !	0.000259
Th (269.242 nm)	-0.01 7479	ppm	0.003266	18.69	-8.430791 !	-0.01 7479
Th (283.730 nm)	0.002266 !	ppm	0.000777	34.31	76.526991 !	0.002266 !
Ti (336.122 nm)	0.002724 !	ppm	0.0001 12	4.1 1	535.082029 !	0.002724 !
Ti (337.280 nm)	0.005383 !	ppm	0.000270	5.01	354.289560 !	0.005383 !
Tl (190.794 nm)	-0.001 249	ppm	0.001050	84.06	1.062700 !	-0.001249
Tl (276.789 nm)	-0.01 2453	ppm	0.005325	42.76	3.553434 !	-0.012453
Tm (313.125 nm)	0.003670 !	ppm	14	3.10	423.829391 '	0.003670 !
Tm (342.508 nm)	-0.001085	ppm	0.000064	5.93	-0.552448 !	-0.001085
U (367.007 nm)	0.131 546 !	ppm	0.006840	5.20	773.872847 !	0.131546 !
U (385.957 nm)	-0.004405	ppm	0.001478	33.55	40.152382 !	-0.004405
V (292.401 nm)	-0.000051 'u	ppm	0.0001 25	> 100.00	25.701056 !	-0.000051
V (309.310 nm)	-0.001 224	ppm	0.000305	24.90	-59.374662 !	-0.001224
W (207.912 nm)	0.03771 1 !	ppm	0.002820	7.48	166.898207 !	0.037711
W (209.475 nm)	0.061430 !	ppm	0.000659	1.07	137.065008 !	0.061430 !



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Y (360.074 nm)	0.002440 !	ppm	0.000041	1.66	762.318736 !	0.002440 !
Y (371.029 nm)	0.000454 !	ppm	0.000079	1 7.33	129.317628 !	0.000454 !
Yb (328.937 nm)	-0.0001 28	ppm	0.00001 7	13.66	-40.978089 !	-0.000128
Yb (369.419 nm)	0.000033 !	ppm	0.000024	73.03	24.824588 !	0.000033 !
Zn (202.548 nm)	1.183735 !	ppm	0.004875	0.41	32021.768265 !	1.183735 !
Zn (213.857 nm)	0.482012 !	ppm	0.002601	0.54	27261.721966 !	0.482012 !
Zr (339.198 nm)	0.002750 !	ppm	0.0001 1 5	4.18	306.485210 !	0.002750 !
Zr (343.823 nm)	0.004489 !	ppm	0.000186	4.13	667.173145 !	0.004489 !