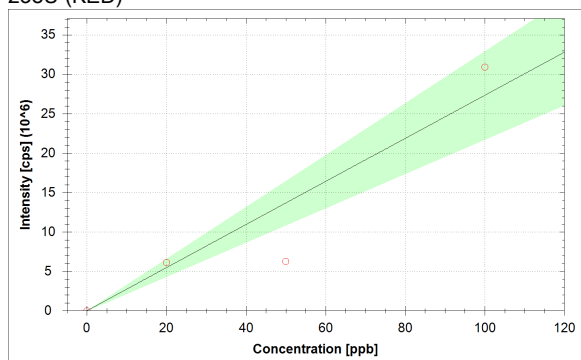


Instrument Summary:

Instrument ID: iCAP Q
Serial Number: Undefined

Labbook Summary:

Path and filename: _Application Data\Workspace\LabBooks\wlw\20211014-2.imexp
Labbook created by: Administrator
Based on template:
Hardware configuration: iCAPQ1
Labbook type: eQuant
Qtegra version (last saved): 2.7.2425.154
Labbook started: 10/14/2021 3:19:09 PM
Labbook finished: 10/14/2021 4:40:50 PM

²³⁸U (KED)

$$f(x) = 273354.4197 \cdot x + 39.4685$$

$$R^2 = 0.8960$$

$$\text{BEC} = 0.000 \text{ ppb}$$

$$\text{LoD} = \text{N/A}$$

Sample Summary

Instrument ID: iCAP Q

Analysis index: 1

Analysis name: water

Analysis started at: 10/14/2021 3:19:13 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	0.000 %	
11B (KED)	Infinity ppb	
24Mg (KED)	Infinity ppb	
27Al (KED)	117.159 ppb	
45Sc (KED)	0.032 %	
51V (KED)	1.177 ppb	
52Cr (KED)	8.241 ppb	
55Mn (KED)	8.191 ppb	
56Fe (KED)	120.869 ppb	
58Ni (KED)	26.729 ppb	
59Co (KED)	0.402 ppb	
63Cu (KED)	Infinity ppb	
64Zn (KED)	Infinity ppb	
69Ga (KED)	Infinity ppb	
75As (KED)	Infinity ppb	
80Se (KED)	Infinity ppb	
85Rb (KED)	Infinity ppb	
88Sr (KED)	Infinity ppb	
89Y (KED)	0.000 %	
107Ag (KED)	Infinity ppb	
114Cd (KED)	Infinity ppb	
115In (KED)	0.000 %	
133Cs (KED)	Infinity ppb	
138Ba (KED)	Infinity ppb	
140Ce (KED)	Infinity ppb	
142Nd (KED)	Infinity ppb	
159Tb (KED)	0.000 %	
205Tl (KED)	10.913 ppb	
208Pb (KED)	69.107 ppb	
209Bi (KED)	0.001 %	
232Th (KED)	0.000 ppb	
238U (KED)	0.000 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	0.000 %	0 cps	
9Be (KED)		0 cps	
11B (KED)	Infinity ppb	17 cps	
24Mg (KED)	Infinity ppb	153 cps	
27Al (KED)	117.159 ppb	7 cps	
45Sc (KED)	0.032 %	20 cps	
51V (KED)	1.177 ppb	3 cps	
52Cr (KED)	8.241 ppb	37 cps	
55Mn (KED)	8.191 ppb	20 cps	
56Fe (KED)	120.869 ppb	500 cps	
58Ni (KED)	26.729 ppb	133 cps	
59Co (KED)	0.402 ppb	3 cps	
63Cu (KED)	Infinity ppb	83 cps	
64Zn (KED)	Infinity ppb	1,503 cps	
69Ga (KED)	Infinity ppb	10 cps	
75As (KED)	Infinity ppb	7 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 3

Analysis name: 0+20

Analysis started at: 10/14/2021 3:23:15 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	97.729 %	
9Be (KED)	0.000 ppb	
11B (KED)	0.000 ppb	
24Mg (KED)	0.000 ppb	
27Al (KED)	0.000 ppb	
45Sc (KED)	107.755 %	
51V (KED)	0.000 ppb	
52Cr (KED)	0.000 ppb	
55Mn (KED)	0.000 ppb	
56Fe (KED)	0.000 ppb	
58Ni (KED)	0.000 ppb	
59Co (KED)	0.000 ppb	
63Cu (KED)	0.000 ppb	
64Zn (KED)	0.000 ppb	
69Ga (KED)	0.000 ppb	
75As (KED)	0.000 ppb	
80Se (KED)	0.000 ppb	
85Rb (KED)	0.000 ppb	
88Sr (KED)	0.000 ppb	
89Y (KED)	103.029 %	
107Ag (KED)	0.000 ppb	
114Cd (KED)	0.000 ppb	
115In (KED)	102.052 %	
133Cs (KED)	0.000 ppb	
138Ba (KED)	0.000 ppb	
139La (KED)	0.000 ppb	
140Ce (KED)	0.000 ppb	
141Pr (KED)	0.000 ppb	
142Nd (KED)	0.000 ppb	
152Sm (KED)	0.000 ppb	
153Eu (KED)	0.000 ppb	
158Gd (KED)	0.000 ppb	
159Tb (KED)	107.203 %	
164Dy (KED)	0.000 ppb	
166Er (KED)	0.000 ppb	
169Tm (KED)	0.000 ppb	
174Yb (KED)	0.000 ppb	
175Lu (KED)	0.000 ppb	
205Tl (KED)	0.000 ppb	
208Pb (KED)	0.000 ppb	
209Bi (KED)	101.347 %	
232Th (KED)	0.000 ppb	
238U (KED)	0.000 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	97.729 %	3,300 cps	
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	0.000 ppb	1,230 cps	
24Mg (KED)	0.000 ppb	120 cps	
27Al (KED)	0.000 ppb	63 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	111.224 %	69,198 cps	
51V (KED)	23.393 ppb	229,029 cps	
52Cr (KED)	22.896 ppb	352,051 cps	
55Mn (KED)	22.844 ppb	192,696 cps	
56Fe (KED)	22.924 ppb	330,870 cps	
58Ni (KED)	23.858 ppb	411,804 cps	
59Co (KED)	23.505 ppb	672,062 cps	
63Cu (KED)	23.120 ppb	506,176 cps	
64Zn (KED)	23.668 ppb	160,390 cps	
69Ga (KED)	22.460 ppb	185,961 cps	
75As (KED)	22.888 ppb	44,375 cps	
80Se (KED)	24.008 ppb	18,307 cps	
85Rb (KED)	23.618 ppb	178,866 cps	
88Sr (KED)	22.753 ppb	247,508 cps	
89Y (KED)	110.107 %	598,206 cps	
107Ag (KED)	24.730 ppb	1,370,012 cps	
114Cd (KED)	23.165 ppb	514,763 cps	
115In (KED)	109.905 %	1,050,552 cps	
133Cs (KED)	23.459 ppb	871,842 cps	
138Ba (KED)	22.000 ppb	1,064,211 cps	
139La (KED)	21.637 ppb	2,145,975 cps	
140Ce (KED)	21.431 ppb	2,738,515 cps	
141Pr (KED)	22.153 ppb	2,949,751 cps	
142Nd (KED)	22.335 ppb	1,179,534 cps	
152Sm (KED)	22.244 ppb	1,040,015 cps	
153Eu (KED)	21.348 ppb	2,040,289 cps	
158Gd (KED)	21.566 ppb	1,308,833 cps	
159Tb (KED)	113.743 %	4,969,845 cps	
164Dy (KED)	21.141 ppb	1,480,629 cps	
166Er (KED)	21.481 ppb	1,751,031 cps	
169Tm (KED)	22.992 ppb	6,110,696 cps	
174Yb (KED)	21.830 ppb	2,043,606 cps	
175Lu (KED)	20.864 ppb	3,641,688 cps	
205Tl (KED)	22.376 ppb	4,106,474 cps	
208Pb (KED)	22.651 ppb	2,876,012 cps	
209Bi (KED)	107.776 %	4,005,436 cps	
232Th (KED)	21.176 ppb	5,598,219 cps	
238U (KED)	22.422 ppb	6,605,840 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 5

Analysis name: 50+20

Analysis started at: 10/14/2021 3:27:57 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	105.628 %	
9Be (KED)	21.283 ppb	
11B (KED)	15.657 ppb	
24Mg (KED)	21.323 ppb	
27Al (KED)	21.136 ppb	
45Sc (KED)	117.803 %	
51V (KED)	22.511 ppb	
52Cr (KED)	21.704 ppb	
55Mn (KED)	22.632 ppb	
56Fe (KED)	22.057 ppb	
58Ni (KED)	22.894 ppb	
59Co (KED)	22.539 ppb	
63Cu (KED)	23.197 ppb	
64Zn (KED)	23.847 ppb	
69Ga (KED)	22.333 ppb	
75As (KED)	23.119 ppb	
80Se (KED)	23.766 ppb	
85Rb (KED)	23.467 ppb	
88Sr (KED)	22.995 ppb	
89Y (KED)	112.080 %	
107Ag (KED)	23.908 ppb	
114Cd (KED)	23.225 ppb	
115In (KED)	112.899 %	
133Cs (KED)	22.698 ppb	
138Ba (KED)	22.175 ppb	
139La (KED)	21.253 ppb	
140Ce (KED)	20.812 ppb	
141Pr (KED)	21.442 ppb	
142Nd (KED)	21.779 ppb	
152Sm (KED)	21.277 ppb	
153Eu (KED)	21.366 ppb	
158Gd (KED)	21.414 ppb	
159Tb (KED)	118.490 %	
164Dy (KED)	20.618 ppb	
166Er (KED)	20.206 ppb	
169Tm (KED)	22.136 ppb	
174Yb (KED)	21.209 ppb	
175Lu (KED)	20.722 ppb	
205Tl (KED)	21.893 ppb	
208Pb (KED)	22.294 ppb	
209Bi (KED)	109.056 %	
232Th (KED)	22.002 ppb	
238U (KED)	22.837 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	105.628 %	3,567 cps	
9Be (KED)	21.283 ppb	3,981 cps	
11B (KED)	15.657 ppb	2,794 cps	
24Mg (KED)	21.323 ppb	15,770 cps	
27Al (KED)	21.136 ppb	4,464 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 6

Analysis name: 100+20

Analysis started at: 10/14/2021 3:30:39 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	105.628 %	
9Be (KED)	113.929 ppb	
11B (KED)	117.558 ppb	
24Mg (KED)	114.229 ppb	
27Al (KED)	113.866 ppb	
45Sc (KED)	124.913 %	
51V (KED)	113.066 ppb	
52Cr (KED)	113.568 ppb	
55Mn (KED)	113.115 ppb	
56Fe (KED)	113.386 ppb	
58Ni (KED)	112.781 ppb	
59Co (KED)	113.030 ppb	
63Cu (KED)	112.778 ppb	
64Zn (KED)	112.343 ppb	
69Ga (KED)	113.342 ppb	
75As (KED)	112.863 ppb	
80Se (KED)	112.316 ppb	
85Rb (KED)	112.543 ppb	
88Sr (KED)	112.952 ppb	
89Y (KED)	121.151 %	
107Ag (KED)	112.100 ppb	
114Cd (KED)	112.754 ppb	
115In (KED)	121.568 %	
133Cs (KED)	112.959 ppb	
138Ba (KED)	113.512 ppb	
139La (KED)	114.046 ppb	
140Ce (KED)	114.308 ppb	
141Pr (KED)	113.849 ppb	
142Nd (KED)	113.643 ppb	
152Sm (KED)	113.913 ppb	
153Eu (KED)	114.048 ppb	
158Gd (KED)	113.980 ppb	
159Tb (KED)	124.898 %	
164Dy (KED)	114.463 ppb	
166Er (KED)	114.601 ppb	
169Tm (KED)	113.334 ppb	
174Yb (KED)	114.029 ppb	
175Lu (KED)	114.466 ppb	
205Tl (KED)	113.578 ppb	
208Pb (KED)	113.323 ppb	
209Bi (KED)	117.080 %	
232Th (KED)	113.764 ppb	
238U (KED)	113.097 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	105.628 %	3,567 cps	
9Be (KED)	113.929 ppb	21,308 cps	
11B (KED)	117.558 ppb	12,323 cps	
24Mg (KED)	114.229 ppb	83,914 cps	
27Al (KED)	113.866 ppb	25,179 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 7

Analysis name: 2223ti

Analysis started at: 10/14/2021 3:34:04 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	96.643 %	
9Be (KED)	0.039 ppb	
11B (KED)	-5.334 ppb	
24Mg (KED)	177.429 ppb	
27Al (KED)	103.982 ppb	
45Sc (KED)	107.513 %	
51V (KED)	0.253 ppb	
52Cr (KED)	0.807 ppb	
55Mn (KED)	4.346 ppb	
56Fe (KED)	123.216 ppb	
58Ni (KED)	0.825 ppb	
59Co (KED)	0.048 ppb	
63Cu (KED)	3.920 ppb	
64Zn (KED)	61.294 ppb	
69Ga (KED)	0.663 ppb	
75As (KED)	0.129 ppb	
80Se (KED)	0.265 ppb	
85Rb (KED)	0.857 ppb	
88Sr (KED)	3.325 ppb	
89Y (KED)	106.869 %	
107Ag (KED)	0.068 ppb	
114Cd (KED)	0.017 ppb	
115In (KED)	107.260 %	
133Cs (KED)	0.022 ppb	
138Ba (KED)	2.355 ppb	
139La (KED)	0.107 ppb	
140Ce (KED)	0.336 ppb	
141Pr (KED)	0.026 ppb	
142Nd (KED)	0.172 ppb	
152Sm (KED)	0.018 ppb	
153Eu (KED)	0.004 ppb	
158Gd (KED)	0.016 ppb	
159Tb (KED)	113.877 %	
164Dy (KED)	0.011 ppb	
166Er (KED)	0.012 ppb	
169Tm (KED)	0.001 ppb	
174Yb (KED)	0.006 ppb	
175Lu (KED)	-0.013 ppb	
205Tl (KED)	0.008 ppb	
208Pb (KED)	0.345 ppb	
209Bi (KED)	102.874 %	
232Th (KED)	0.139 ppb	
238U (KED)	0.015 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	96.643 %	3,264 cps	
9Be (KED)	0.039 ppb	7 cps	
11B (KED)	-5.334 ppb	760 cps	
24Mg (KED)	177.429 ppb	119,190 cps	
27Al (KED)	103.982 ppb	19,796 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	121.727 %	75,732 cps	
51V (KED)	0.271 ppb	2,907 cps	
52Cr (KED)	0.455 ppb	7,909 cps	
55Mn (KED)	5.573 ppb	51,590 cps	
56Fe (KED)	173.672 ppb	2,718,857 cps	
58Ni (KED)	1.130 ppb	21,609 cps	
59Co (KED)	0.087 ppb	2,757 cps	
63Cu (KED)	2.754 ppb	63,283 cps	
64Zn (KED)	59.858 ppb	421,994 cps	
69Ga (KED)	0.683 ppb	5,931 cps	
75As (KED)	0.098 ppb	213 cps	
80Se (KED)	0.286 ppb	2,954 cps	
85Rb (KED)	0.993 ppb	7,866 cps	
88Sr (KED)	4.431 ppb	50,378 cps	
89Y (KED)	114.918 %	624,343 cps	
107Ag (KED)	0.016 ppb	957 cps	
114Cd (KED)	0.008 ppb	263 cps	
115In (KED)	113.959 %	1,089,302 cps	
133Cs (KED)	0.033 ppb	1,290 cps	
138Ba (KED)	2.570 ppb	126,324 cps	
139La (KED)	0.142 ppb	14,218 cps	
140Ce (KED)	0.414 ppb	53,474 cps	
141Pr (KED)	0.037 ppb	5,031 cps	
142Nd (KED)	0.228 ppb	12,156 cps	
152Sm (KED)	0.027 ppb	1,290 cps	
153Eu (KED)	0.006 ppb	547 cps	
158Gd (KED)	0.021 ppb	1,283 cps	
159Tb (KED)	114.680 %	5,010,790 cps	
164Dy (KED)	0.018 ppb	1,277 cps	
166Er (KED)	0.009 ppb	1,247 cps	
169Tm (KED)	0.001 ppb	303 cps	
174Yb (KED)	0.006 ppb	610 cps	
175Lu (KED)	-0.011 ppb	19,970 cps	
205Tl (KED)	0.003 ppb	637 cps	
208Pb (KED)	0.312 ppb	43,673 cps	
209Bi (KED)	103.134 %	3,832,904 cps	
232Th (KED)	0.039 ppb	9,967 cps	
238U (KED)	0.010 ppb	2,847 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	107.943 %	67,157 cps	
51V (KED)	0.094 ppb	900 cps	
52Cr (KED)	0.507 ppb	7,799 cps	
55Mn (KED)	2.070 ppb	17,095 cps	
56Fe (KED)	69.879 ppb	972,060 cps	
58Ni (KED)	0.594 ppb	10,188 cps	
59Co (KED)	0.049 ppb	1,393 cps	
63Cu (KED)	2.167 ppb	45,125 cps	
64Zn (KED)	62.007 ppb	395,523 cps	
69Ga (KED)	0.390 ppb	3,074 cps	
75As (KED)	0.045 ppb	97 cps	
80Se (KED)	0.607 ppb	2,870 cps	
85Rb (KED)	0.821 ppb	5,885 cps	
88Sr (KED)	1.789 ppb	18,457 cps	
89Y (KED)	103.984 %	564,938 cps	
107Ag (KED)	0.025 ppb	1,317 cps	
114Cd (KED)	0.008 ppb	240 cps	
115In (KED)	102.678 %	981,472 cps	
133Cs (KED)	0.014 ppb	500 cps	
138Ba (KED)	1.343 ppb	63,394 cps	
139La (KED)	0.058 ppb	5,535 cps	
140Ce (KED)	0.277 ppb	34,103 cps	
141Pr (KED)	0.015 ppb	1,930 cps	
142Nd (KED)	0.127 ppb	6,452 cps	
152Sm (KED)	0.012 ppb	517 cps	
153Eu (KED)	0.002 ppb	223 cps	
158Gd (KED)	0.009 ppb	517 cps	
159Tb (KED)	109.209 %	4,771,728 cps	
164Dy (KED)	0.006 ppb	427 cps	
166Er (KED)	0.006 ppb	943 cps	
169Tm (KED)	0.000 ppb	117 cps	
174Yb (KED)	0.003 ppb	257 cps	
175Lu (KED)	-0.021 ppb	17,322 cps	
205Tl (KED)	0.001 ppb	263 cps	
208Pb (KED)	0.166 ppb	24,290 cps	
209Bi (KED)	96.667 %	3,592,584 cps	
232Th (KED)	0.016 ppb	3,877 cps	
238U (KED)	0.005 ppb	1,393 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	118.510 %	73,731 cps	
51V (KED)	0.126 ppb	1,317 cps	
52Cr (KED)	0.572 ppb	9,624 cps	
55Mn (KED)	2.612 ppb	23,636 cps	
56Fe (KED)	89.650 ppb	1,368,134 cps	
58Ni (KED)	0.733 ppb	13,744 cps	
59Co (KED)	0.063 ppb	1,967 cps	
63Cu (KED)	2.555 ppb	57,141 cps	
64Zn (KED)	62.244 ppb	426,913 cps	
69Ga (KED)	0.430 ppb	3,641 cps	
75As (KED)	0.060 ppb	133 cps	
80Se (KED)	0.306 ppb	2,887 cps	
85Rb (KED)	0.945 ppb	7,282 cps	
88Sr (KED)	2.272 ppb	25,182 cps	
89Y (KED)	111.811 %	607,464 cps	
107Ag (KED)	0.021 ppb	1,227 cps	
114Cd (KED)	0.010 ppb	297 cps	
115In (KED)	110.935 %	1,060,394 cps	
133Cs (KED)	0.016 ppb	623 cps	
138Ba (KED)	1.499 ppb	74,634 cps	
139La (KED)	0.083 ppb	8,406 cps	
140Ce (KED)	0.254 ppb	33,074 cps	
141Pr (KED)	0.019 ppb	2,617 cps	
142Nd (KED)	0.133 ppb	7,169 cps	
152Sm (KED)	0.012 ppb	557 cps	
153Eu (KED)	0.002 ppb	207 cps	
158Gd (KED)	0.012 ppb	727 cps	
159Tb (KED)	115.391 %	5,041,821 cps	
164Dy (KED)	0.007 ppb	523 cps	
166Er (KED)	0.004 ppb	797 cps	
169Tm (KED)	0.000 ppb	153 cps	
174Yb (KED)	0.003 ppb	300 cps	
175Lu (KED)	-0.016 ppb	19,208 cps	
205Tl (KED)	0.002 ppb	433 cps	
208Pb (KED)	0.336 ppb	46,357 cps	
209Bi (KED)	102.700 %	3,816,797 cps	
232Th (KED)	0.020 ppb	5,054 cps	
238U (KED)	0.006 ppb	1,587 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	114.020 %	70,938 cps	
51V (KED)	0.208 ppb	2,094 cps	
52Cr (KED)	1.079 ppb	17,239 cps	
55Mn (KED)	4.402 ppb	38,205 cps	
56Fe (KED)	136.315 ppb	1,999,663 cps	
58Ni (KED)	0.830 ppb	14,932 cps	
59Co (KED)	0.070 ppb	2,087 cps	
63Cu (KED)	1.930 ppb	41,114 cps	
64Zn (KED)	68.543 ppb	446,725 cps	
69Ga (KED)	0.675 ppb	5,421 cps	
75As (KED)	0.098 ppb	197 cps	
80Se (KED)	0.512 ppb	2,874 cps	
85Rb (KED)	1.142 ppb	8,366 cps	
88Sr (KED)	3.341 ppb	35,150 cps	
89Y (KED)	106.267 %	577,342 cps	
107Ag (KED)	0.020 ppb	1,137 cps	
114Cd (KED)	0.014 ppb	373 cps	
115In (KED)	107.721 %	1,029,670 cps	
133Cs (KED)	0.023 ppb	857 cps	
138Ba (KED)	2.222 ppb	108,115 cps	
139La (KED)	0.119 ppb	11,809 cps	
140Ce (KED)	0.244 ppb	31,212 cps	
141Pr (KED)	0.029 ppb	3,914 cps	
142Nd (KED)	0.151 ppb	7,959 cps	
152Sm (KED)	0.021 ppb	980 cps	
153Eu (KED)	0.005 ppb	483 cps	
158Gd (KED)	0.017 ppb	1,070 cps	
159Tb (KED)	113.337 %	4,952,089 cps	
164Dy (KED)	0.013 ppb	950 cps	
166Er (KED)	0.004 ppb	783 cps	
169Tm (KED)	0.001 ppb	433 cps	
174Yb (KED)	0.005 ppb	513 cps	
175Lu (KED)	-0.011 ppb	19,823 cps	
205Tl (KED)	0.003 ppb	537 cps	
208Pb (KED)	0.290 ppb	39,877 cps	
209Bi (KED)	100.443 %	3,732,917 cps	
232Th (KED)	0.031 ppb	7,786 cps	
238U (KED)	0.008 ppb	2,270 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	120.310 %	74,850 cps	
51V (KED)	0.147 ppb	1,567 cps	
52Cr (KED)	0.469 ppb	8,053 cps	
55Mn (KED)	3.197 ppb	29,324 cps	
56Fe (KED)	88.177 ppb	1,366,163 cps	
58Ni (KED)	0.752 ppb	14,302 cps	
59Co (KED)	0.056 ppb	1,767 cps	
63Cu (KED)	2.606 ppb	57,365 cps	
64Zn (KED)	69.165 ppb	466,797 cps	
69Ga (KED)	0.495 ppb	4,124 cps	
75As (KED)	0.072 ppb	153 cps	
80Se (KED)	0.100 ppb	2,707 cps	
85Rb (KED)	1.111 ppb	8,430 cps	
88Sr (KED)	2.842 ppb	30,975 cps	
89Y (KED)	110.045 %	597,870 cps	
107Ag (KED)	0.021 ppb	1,213 cps	
114Cd (KED)	0.036 ppb	887 cps	
115In (KED)	110.948 %	1,060,520 cps	
133Cs (KED)	0.016 ppb	617 cps	
138Ba (KED)	1.641 ppb	79,990 cps	
139La (KED)	0.081 ppb	8,033 cps	
140Ce (KED)	0.162 ppb	20,757 cps	
141Pr (KED)	0.021 ppb	2,750 cps	
142Nd (KED)	0.101 ppb	5,304 cps	
152Sm (KED)	0.015 ppb	700 cps	
153Eu (KED)	0.003 ppb	283 cps	
158Gd (KED)	0.012 ppb	717 cps	
159Tb (KED)	113.122 %	4,942,679 cps	
164Dy (KED)	0.009 ppb	640 cps	
166Er (KED)	0.002 ppb	630 cps	
169Tm (KED)	0.001 ppb	223 cps	
174Yb (KED)	0.004 ppb	383 cps	
175Lu (KED)	-0.013 ppb	19,295 cps	
205Tl (KED)	0.002 ppb	437 cps	
208Pb (KED)	0.400 ppb	55,075 cps	
209Bi (KED)	104.643 %	3,888,984 cps	
232Th (KED)	0.020 ppb	5,288 cps	
238U (KED)	0.006 ppb	1,773 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	119.722 %	74,485 cps	
51V (KED)	0.240 ppb	2,540 cps	
52Cr (KED)	0.503 ppb	8,583 cps	
55Mn (KED)	4.319 ppb	39,359 cps	
56Fe (KED)	145.344 ppb	2,238,501 cps	
58Ni (KED)	1.033 ppb	19,442 cps	
59Co (KED)	0.076 ppb	2,367 cps	
63Cu (KED)	2.801 ppb	63,290 cps	
64Zn (KED)	61.941 ppb	429,477 cps	
69Ga (KED)	0.629 ppb	5,371 cps	
75As (KED)	0.058 ppb	130 cps	
80Se (KED)	0.219 ppb	2,860 cps	
85Rb (KED)	1.282 ppb	9,981 cps	
88Sr (KED)	3.783 ppb	42,318 cps	
89Y (KED)	113.031 %	614,095 cps	
107Ag (KED)	0.033 ppb	1,873 cps	
114Cd (KED)	0.009 ppb	277 cps	
115In (KED)	111.061 %	1,061,600 cps	
133Cs (KED)	0.023 ppb	880 cps	
138Ba (KED)	2.161 ppb	108,801 cps	
139La (KED)	0.141 ppb	14,385 cps	
140Ce (KED)	0.276 ppb	36,570 cps	
141Pr (KED)	0.032 ppb	4,457 cps	
142Nd (KED)	0.180 ppb	9,844 cps	
152Sm (KED)	0.027 ppb	1,297 cps	
153Eu (KED)	0.004 ppb	420 cps	
158Gd (KED)	0.020 ppb	1,237 cps	
159Tb (KED)	117.232 %	5,122,255 cps	
164Dy (KED)	0.012 ppb	877 cps	
166Er (KED)	0.003 ppb	713 cps	
169Tm (KED)	0.001 ppb	203 cps	
174Yb (KED)	0.005 ppb	520 cps	
175Lu (KED)	-0.015 ppb	19,659 cps	
205Tl (KED)	0.003 ppb	520 cps	
208Pb (KED)	0.297 ppb	42,918 cps	
209Bi (KED)	105.904 %	3,935,838 cps	
232Th (KED)	0.032 ppb	8,423 cps	
238U (KED)	0.009 ppb	2,604 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	124.013 %	77,154 cps	
51V (KED)	0.120 ppb	1,320 cps	
52Cr (KED)	0.410 ppb	7,299 cps	
55Mn (KED)	2.335 ppb	22,126 cps	
56Fe (KED)	79.026 ppb	1,262,452 cps	
58Ni (KED)	0.707 ppb	13,884 cps	
59Co (KED)	0.059 ppb	1,923 cps	
63Cu (KED)	2.109 ppb	48,916 cps	
64Zn (KED)	54.463 ppb	386,997 cps	
69Ga (KED)	0.419 ppb	3,681 cps	
75As (KED)	0.056 ppb	130 cps	
80Se (KED)	0.267 ppb	2,964 cps	
85Rb (KED)	0.634 ppb	5,071 cps	
88Sr (KED)	3.035 ppb	34,805 cps	
89Y (KED)	115.802 %	629,147 cps	
107Ag (KED)	0.028 ppb	1,663 cps	
114Cd (KED)	0.007 ppb	250 cps	
115In (KED)	115.723 %	1,106,161 cps	
133Cs (KED)	0.014 ppb	567 cps	
138Ba (KED)	1.519 ppb	75,494 cps	
139La (KED)	0.072 ppb	7,249 cps	
140Ce (KED)	0.139 ppb	18,160 cps	
141Pr (KED)	0.017 ppb	2,354 cps	
142Nd (KED)	0.090 ppb	4,821 cps	
152Sm (KED)	0.012 ppb	547 cps	
153Eu (KED)	0.003 ppb	257 cps	
158Gd (KED)	0.009 ppb	560 cps	
159Tb (KED)	115.225 %	5,034,595 cps	
164Dy (KED)	0.006 ppb	470 cps	
166Er (KED)	0.000 ppb	477 cps	
169Tm (KED)	0.000 ppb	147 cps	
174Yb (KED)	0.003 ppb	257 cps	
175Lu (KED)	-0.013 ppb	19,739 cps	
205Tl (KED)	0.002 ppb	347 cps	
208Pb (KED)	0.311 ppb	44,546 cps	
209Bi (KED)	105.534 %	3,922,098 cps	
232Th (KED)	0.017 ppb	4,354 cps	
238U (KED)	0.006 ppb	1,707 cps	

Sample Summary

Instrument ID: iCAP Q

Analysis index: 30

Analysis name: 191091ti

Analysis started at: 10/14/2021 4:37:54 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	111.552 %	
9Be (KED)	0.017 ppb	
11B (KED)	-11.550 ppb	
24Mg (KED)	203.240 ppb	
27Al (KED)	109.220 ppb	
45Sc (KED)	124.234 %	
51V (KED)	0.222 ppb	
52Cr (KED)	0.423 ppb	
55Mn (KED)	4.090 ppb	
56Fe (KED)	141.172 ppb	
58Ni (KED)	0.887 ppb	
59Co (KED)	0.068 ppb	
63Cu (KED)	2.669 ppb	
64Zn (KED)	62.813 ppb	
69Ga (KED)	0.528 ppb	
75As (KED)	0.077 ppb	
80Se (KED)	0.382 ppb	
85Rb (KED)	1.712 ppb	
88Sr (KED)	3.936 ppb	
89Y (KED)	114.079 %	
107Ag (KED)	0.013 ppb	
114Cd (KED)	0.007 ppb	
115In (KED)	114.788 %	
133Cs (KED)	0.022 ppb	
138Ba (KED)	1.941 ppb	
139La (KED)	0.121 ppb	
140Ce (KED)	0.236 ppb	
141Pr (KED)	0.027 ppb	
142Nd (KED)	0.152 ppb	
152Sm (KED)	0.021 ppb	
153Eu (KED)	0.003 ppb	
158Gd (KED)	0.018 ppb	
159Tb (KED)	114.483 %	
164Dy (KED)	0.012 ppb	
166Er (KED)	0.002 ppb	
169Tm (KED)	0.001 ppb	
174Yb (KED)	0.004 ppb	
175Lu (KED)	-0.020 ppb	
205Tl (KED)	0.003 ppb	
208Pb (KED)	0.299 ppb	
209Bi (KED)	101.953 %	
232Th (KED)	0.031 ppb	
238U (KED)	0.008 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	111.552 %	3,767 cps	
9Be (KED)	0.017 ppb	3 cps	
11B (KED)	-11.550 ppb	263 cps	
24Mg (KED)	203.240 ppb	157,569 cps	
27Al (KED)	109.220 ppb	24,023 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	124.234 %	77,292 cps	
51V (KED)	0.222 ppb	2,434 cps	
52Cr (KED)	0.423 ppb	7,536 cps	
55Mn (KED)	4.090 ppb	38,693 cps	
56Fe (KED)	141.172 ppb	2,256,285 cps	
58Ni (KED)	0.887 ppb	17,372 cps	
59Co (KED)	0.068 ppb	2,217 cps	
63Cu (KED)	2.669 ppb	60,888 cps	
64Zn (KED)	62.813 ppb	439,552 cps	
69Ga (KED)	0.528 ppb	4,554 cps	
75As (KED)	0.077 ppb	170 cps	
80Se (KED)	0.382 ppb	2,997 cps	
85Rb (KED)	1.712 ppb	13,454 cps	
88Sr (KED)	3.936 ppb	44,436 cps	
89Y (KED)	114.079 %	619,785 cps	
107Ag (KED)	0.013 ppb	810 cps	
114Cd (KED)	0.007 ppb	233 cps	
115In (KED)	114.788 %	1,097,230 cps	
133Cs (KED)	0.022 ppb	877 cps	
138Ba (KED)	1.941 ppb	95,514 cps	
139La (KED)	0.121 ppb	12,103 cps	
140Ce (KED)	0.236 ppb	30,564 cps	
141Pr (KED)	0.027 ppb	3,571 cps	
142Nd (KED)	0.152 ppb	8,103 cps	
152Sm (KED)	0.021 ppb	967 cps	
153Eu (KED)	0.003 ppb	327 cps	
158Gd (KED)	0.018 ppb	1,123 cps	
159Tb (KED)	114.483 %	5,002,164 cps	
164Dy (KED)	0.012 ppb	897 cps	
166Er (KED)	0.002 ppb	657 cps	
169Tm (KED)	0.001 ppb	243 cps	
174Yb (KED)	0.004 ppb	397 cps	
175Lu (KED)	-0.020 ppb	18,330 cps	
205Tl (KED)	0.003 ppb	523 cps	
208Pb (KED)	0.299 ppb	41,543 cps	
209Bi (KED)	101.953 %	3,789,010 cps	
232Th (KED)	0.031 ppb	7,862 cps	
238U (KED)	0.008 ppb	2,387 cps	