

## Instrument Summary:

Instrument ID: iCAP Q  
Serial Number: Undefined

## Labbook Summary:

Path and filename: \_Application Data\Workspace\LabBooks\wlw\20211103-2.imexp  
Labbook created by: Administrator  
Based on template:  
Hardware configuration: iCAPQ1  
Labbook type: eQuant  
Qtegra version (last saved): 2.7.2425.154  
Labbook started: 11/3/2021 2:30:12 PM  
Labbook finished: 11/3/2021 4:38:10 PM

## Method Summary:

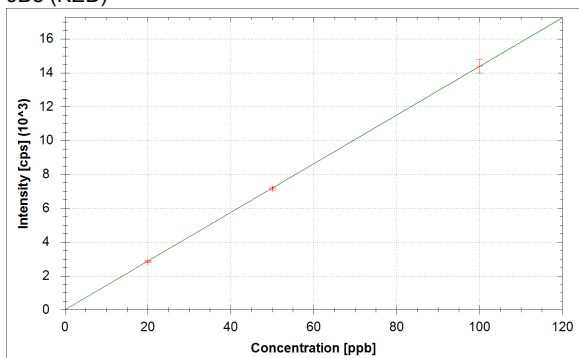
Isotope	Mode	Dwell time (s)	# of Channels	Spacing	Resolution	IS
6Li (KED)	KED	0.03	3	0.1	Normal	
9Be (KED)	KED	0.03	3	0.1	Normal	6Li (KED)
11B (KED)	KED	0.03	3	0.1	Normal	6Li (KED)
24Mg (KED)	KED	0.03	3	0.1	Normal	6Li (KED)
27Al (KED)	KED	0.03	3	0.1	Normal	45Sc (KED)
45Sc (KED)	KED	0.03	3	0.1	Normal	
51V (KED)	KED	0.03	3	0.1	Normal	45Sc (KED)
52Cr (KED)	KED	0.03	3	0.1	Normal	45Sc (KED)
55Mn (KED)	KED	0.03	3	0.1	Normal	45Sc (KED)
56Fe (KED)	KED	0.03	3	0.1	Normal	45Sc (KED)
58Ni (KED)	KED	0.03	3	0.1	Normal	45Sc (KED)
59Co (KED)	KED	0.03	3	0.1	Normal	45Sc (KED)
63Cu (KED)	KED	0.03	3	0.1	Normal	89Y (KED)
64Zn (KED)	KED	0.03	3	0.1	Normal	89Y (KED)
69Ga (KED)	KED	0.03	3	0.1	Normal	89Y (KED)
75As (KED)	KED	0.03	3	0.1	Normal	89Y (KED)
80Se (KED)	KED	0.03	3	0.1	Normal	89Y (KED)
85Rb (KED)	KED	0.03	3	0.1	Normal	89Y (KED)
88Sr (KED)	KED	0.03	3	0.1	Normal	89Y (KED)
89Y (KED)	KED	0.03	3	0.1	Normal	
107Ag (KED)	KED	0.03	3	0.1	Normal	115In (KED)
114Cd (KED)	KED	0.03	3	0.1	Normal	115In (KED)
115In (KED)	KED	0.03	3	0.1	Normal	
133Cs (KED)	KED	0.03	3	0.1	Normal	115In (KED)
138Ba (KED)	KED	0.03	3	0.1	Normal	159Tb (KED)
139La (KED)	KED	0.03	3	0.1	Normal	159Tb (KED)
140Ce (KED)	KED	0.03	3	0.1	Normal	159Tb (KED)
141Pr (KED)	KED	0.03	3	0.1	Normal	159Tb (KED)
142Nd (KED)	KED	0.03	3	0.1	Normal	159Tb (KED)
152Sm (KED)	KED	0.03	3	0.1	Normal	159Tb (KED)
153Eu (KED)	KED	0.03	3	0.1	Normal	159Tb (KED)
158Gd (KED)	KED	0.03	3	0.1	Normal	159Tb (KED)
159Tb (KED)	KED	0.03	3	0.1	Normal	
164Dy (KED)	KED	0.03	3	0.1	Normal	159Tb (KED)
166Er (KED)	KED	0.03	3	0.1	Normal	159Tb (KED)
169Tm (KED)	KED	0.03	3	0.1	Normal	159Tb (KED)
174Yb (KED)	KED	0.03	3	0.1	Normal	159Tb (KED)
175Lu (KED)	KED	0.03	3	0.1	Normal	159Tb (KED)
205Tl (KED)	KED	0.03	3	0.1	Normal	209Bi (KED)
208Pb (KED)	KED	0.03	3	0.1	Normal	209Bi (KED)
209Bi (KED)	KED	0.03	3	0.1	Normal	
232Th (KED)	KED	0.03	3	0.1	Normal	209Bi (KED)
238U (KED)	KED	0.03	3	0.1	Normal	209Bi (KED)

Isotope	Mode	Dwell time (s)	# of Channels	Spacing	Resolution
6Li (KED)	KED	0.03	3	0.1	Normal
45Sc (KED)	KED	0.03	3	0.1	Normal
89Y (KED)	KED	0.03	3	0.1	Normal
115In (KED)	KED	0.03	3	0.1	Normal
159Tb (KED)	KED	0.03	3	0.1	Normal
209Bi (KED)	KED	0.03	3	0.1	Normal

No. of sweeps	Time per sweep[s]	Time per main run[s]
10	3.87	38.7

## Calibration Curves:

9Be (KED)



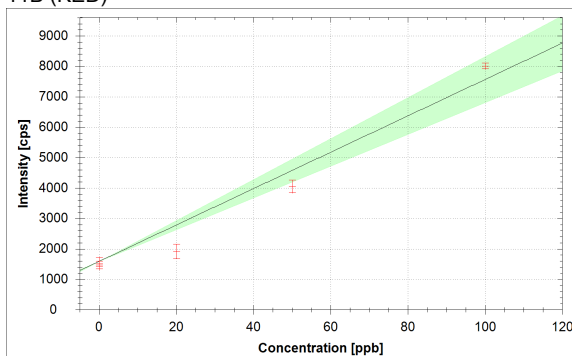
$$f(x) = 143.7247 \cdot x$$

$$R^2 = 1.0000$$

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

$$\text{LoD} = 0.0391 \text{ ppb}$$

11B (KED)



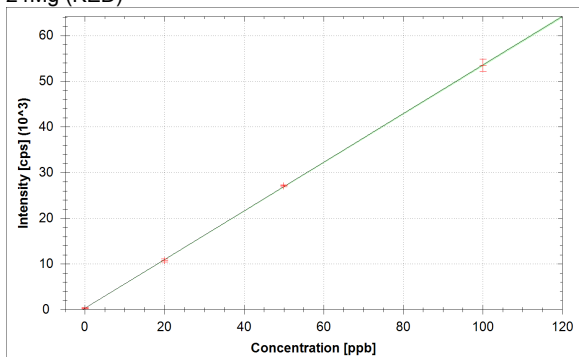
$$f(x) = 59.7792 \cdot x + 1591.0718$$

$$R^2 = 0.9595$$

$$\text{BEC} = 26.616 \text{ ppb}$$

$$\text{LoD} = 4.2095 \text{ ppb}$$

24Mg (KED)



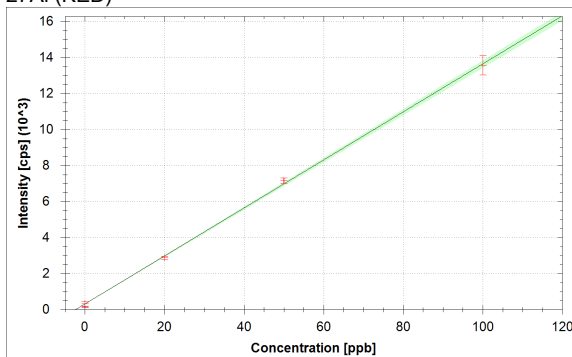
$$f(x) = 532.5315 \cdot x + 284.9001$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.535 \text{ ppb}$$

$$\text{LoD} = 0.1528 \text{ ppb}$$

27Al (KED)



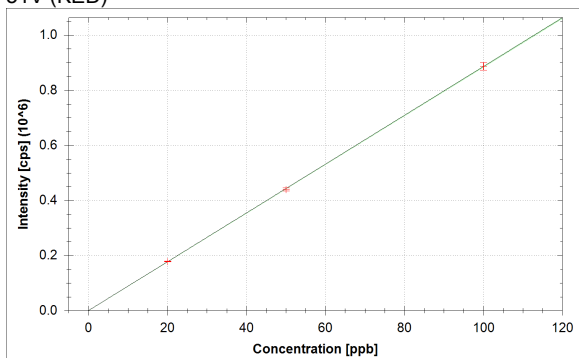
$$f(x) = 133.3176 \cdot x + 310.6546$$

$$R^2 = 0.9994$$

$$\text{BEC} = 2.330 \text{ ppb}$$

$$\text{LoD} = 0.2543 \text{ ppb}$$

51V (KED)



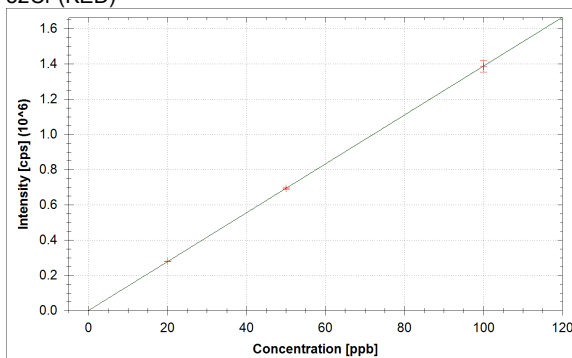
$$f(x) = 8856.2635 \cdot x + 10.7236$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.001 \text{ ppb}$$

$$\text{LoD} = 0.0007 \text{ ppb}$$

52Cr (KED)



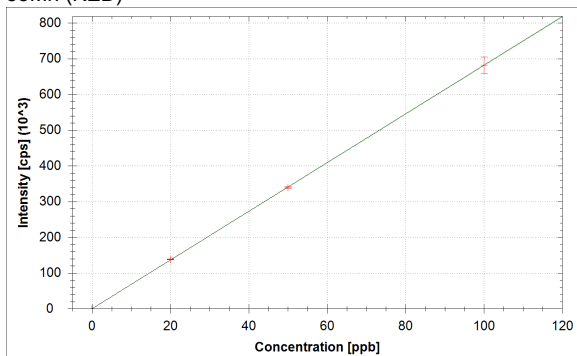
$$f(x) = 13867.8762 \cdot x + 113.0624$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.008 \text{ ppb}$$

$$\text{LoD} = 0.0006 \text{ ppb}$$

55Mn (KED)



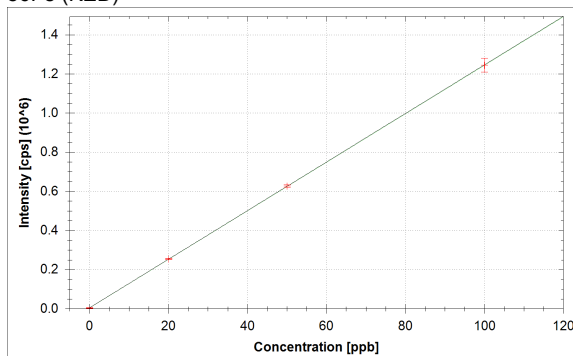
$$f(x) = 6814.7402 \cdot x + 91.6290$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.013 \text{ ppb}$$

$$\text{LoD} = 0.0059 \text{ ppb}$$

56Fe (KED)



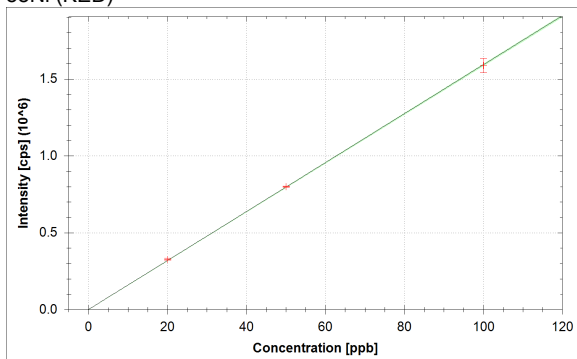
$$f(x) = 12408.3264 \cdot x + 4616.4851$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.372 \text{ ppb}$$

$$\text{LoD} = 0.0614 \text{ ppb}$$

58Ni (KED)



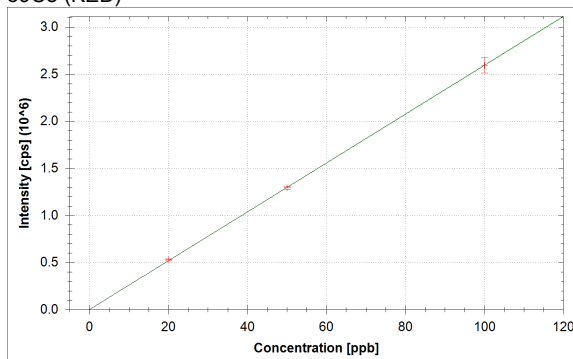
$$f(x) = 15918.3026 \cdot x + 309.4023$$

$$R^2 = 0.9999$$

$$\text{BEC} = 0.019 \text{ ppb}$$

$$\text{LoD} = 0.0033 \text{ ppb}$$

59Co (KED)



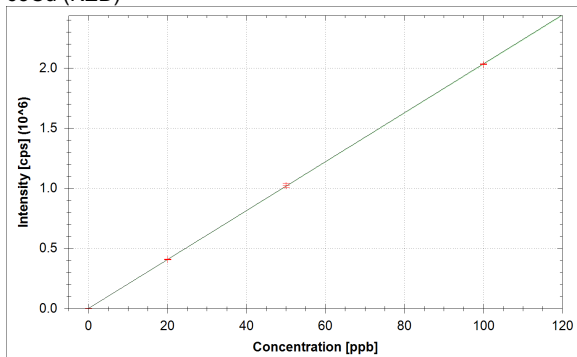
$$f(x) = 25938.1319 \cdot x + 41.6580$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.002 \text{ ppb}$$

$$\text{LoD} = 0.0019 \text{ ppb}$$

63Cu (KED)



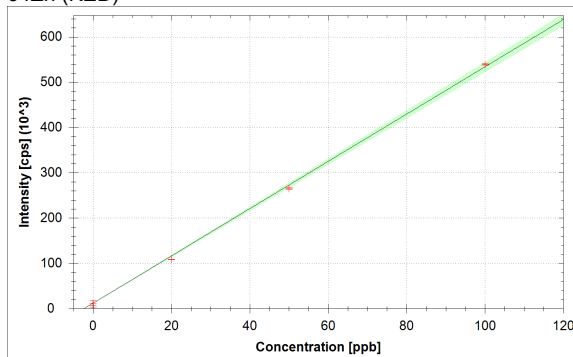
$$f(x) = 20331.9695 \cdot x + 993.2868$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.049 \text{ ppb}$$

$$\text{LoD} = 0.0018 \text{ ppb}$$

64Zn (KED)



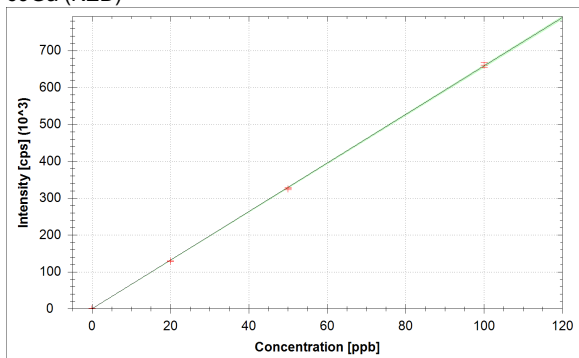
$$f(x) = 5220.5502 \cdot x + 11852.0426$$

$$R^2 = 0.9988$$

$$\text{BEC} = 2.270 \text{ ppb}$$

$$\text{LoD} = 0.0469 \text{ ppb}$$

69Ga (KED)



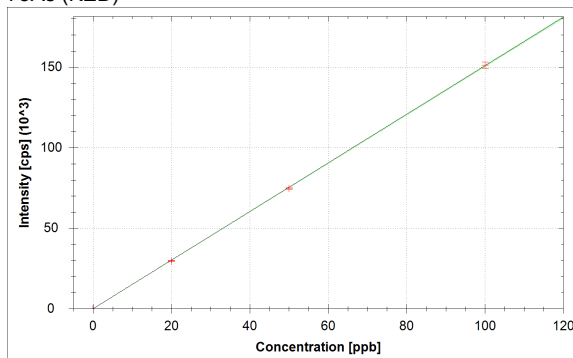
$$f(x) = 6579.0606 \cdot x + 172.8140$$

$$R^2 = 0.9999$$

$$\text{BEC} = 0.026 \text{ ppb}$$

$$\text{LoD} = 0.0091 \text{ ppb}$$

75As (KED)



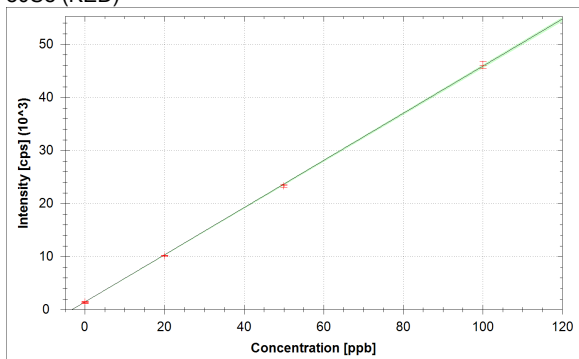
$$f(x) = 1507.8699 \cdot x + 10.9265$$

$$R^2 = 0.9999$$

$$\text{BEC} = 0.007 \text{ ppb}$$

$$\text{LoD} = 0.0153 \text{ ppb}$$

80Se (KED)



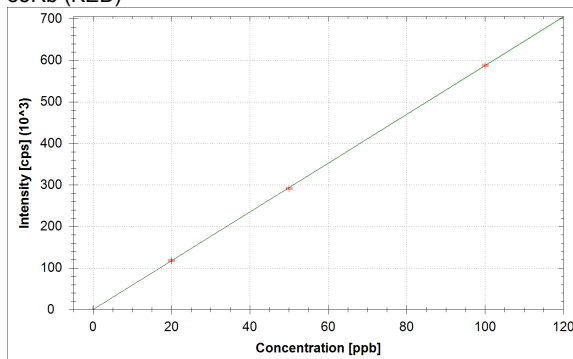
$$f(x) = 444.2880 \cdot x + 1429.7856$$

$$R^2 = 0.9999$$

$$\text{BEC} = 3.218 \text{ ppb}$$

$$\text{LoD} = 0.6769 \text{ ppb}$$

85Rb (KED)



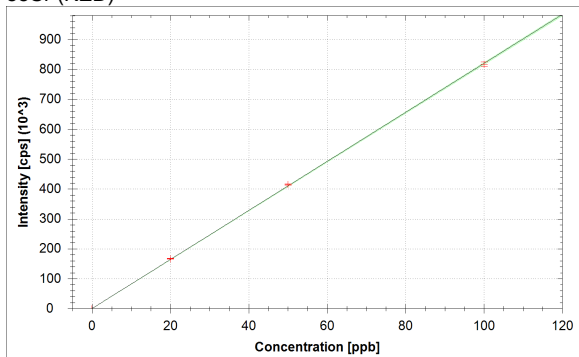
$$f(x) = 5870.9258 \cdot x + 20.6580$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.004 \text{ ppb}$$

$$\text{LoD} = 0.0045 \text{ ppb}$$

88Sr (KED)



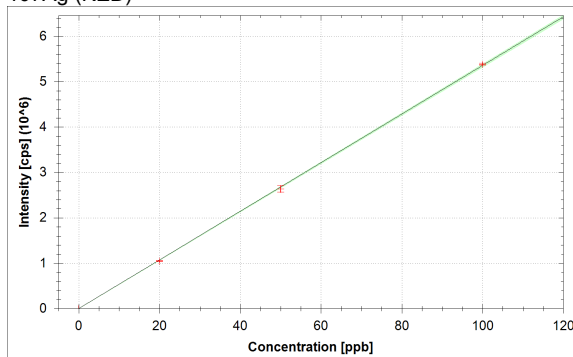
$$f(x) = 8199.5652 \cdot x + 210.8632$$

$$R^2 = 0.9999$$

$$\text{BEC} = 0.026 \text{ ppb}$$

$$\text{LoD} = 0.0030 \text{ ppb}$$

107Ag (KED)

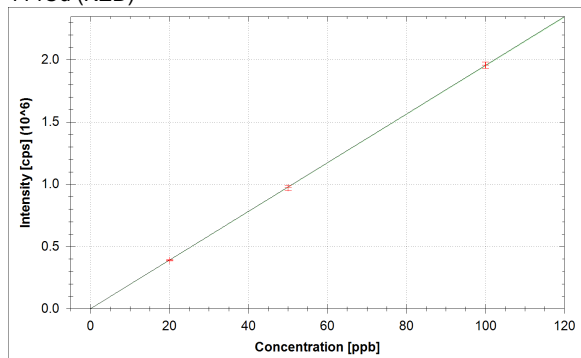


$$f(x) = 53573.3157 \cdot x + 40.7509$$

$$R^2 = 0.9999$$

$$\text{BEC} = 0.001 \text{ ppb}$$

$$\text{LoD} = 0.0007 \text{ ppb}$$

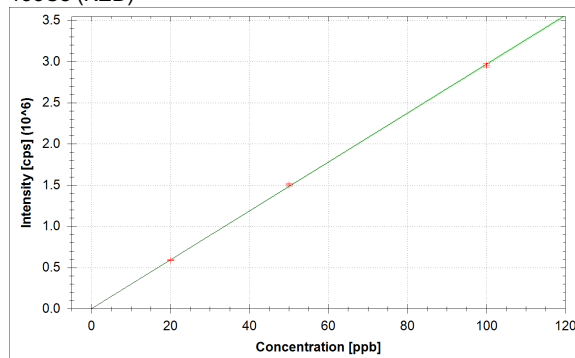
**<sup>114</sup>Cd (KED)**

$$f(x) = 19540.0536 \cdot x + 45.8127$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.002 \text{ ppb}$$

$$\text{LoD} = 0.0024 \text{ ppb}$$

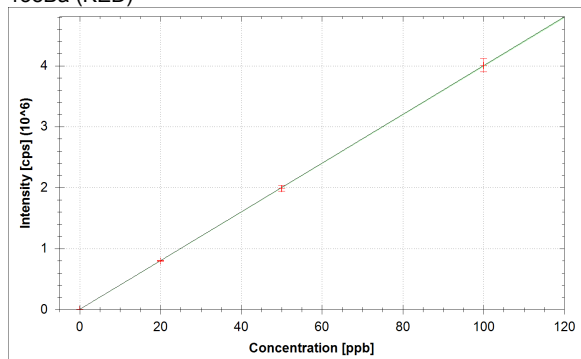
**<sup>133</sup>Cs (KED)**

$$f(x) = 29660.8240 \cdot x + 34.9506$$

$$R^2 = 0.9999$$

$$\text{BEC} = 0.001 \text{ ppb}$$

$$\text{LoD} = 0.0004 \text{ ppb}$$

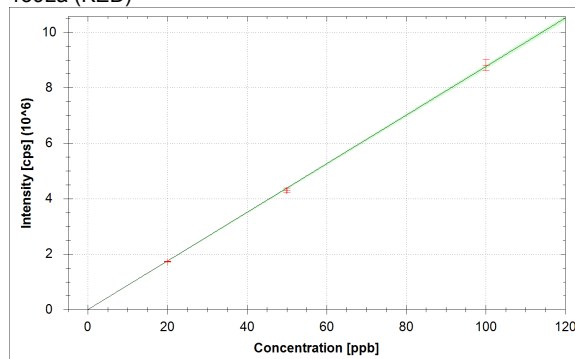
**<sup>138</sup>Ba (KED)**

$$f(x) = 39966.0082 \cdot x + 3574.9112$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.089 \text{ ppb}$$

$$\text{LoD} = 0.0015 \text{ ppb}$$

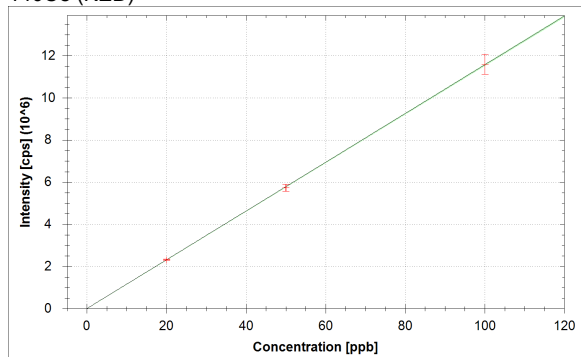
**<sup>139</sup>La (KED)**

$$f(x) = 87594.7483 \cdot x + 86.3623$$

$$R^2 = 0.9998$$

$$\text{BEC} = 0.001 \text{ ppb}$$

$$\text{LoD} = 0.0006 \text{ ppb}$$

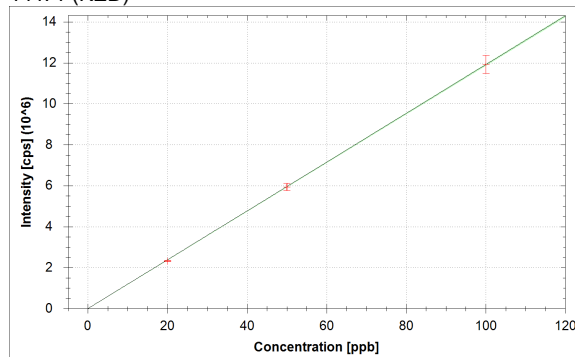
**<sup>140</sup>Ce (KED)**

$$f(x) = 115653.9709 \cdot x + 1225.4730$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.011 \text{ ppb}$$

$$\text{LoD} = 0.0004 \text{ ppb}$$

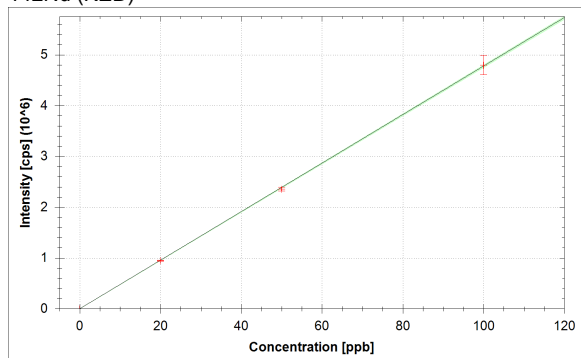
**<sup>141</sup>Pr (KED)**

$$f(x) = 119082.4941 \cdot x + 45.5494$$

$$R^2 = 1.0000$$

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

$$\text{LoD} = 0.0003 \text{ ppb}$$

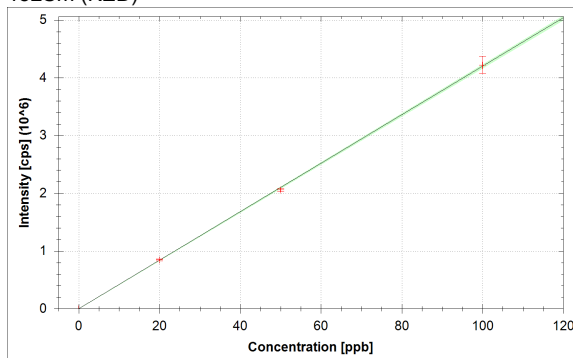
**<sup>142</sup>Nd (KED)**

$$f(x) = 47769.2738 \cdot x + 258.4060$$

$$R^2 = 0.9999$$

$$\text{BEC} = 0.005 \text{ ppb}$$

$$\text{LoD} = 0.0022 \text{ ppb}$$

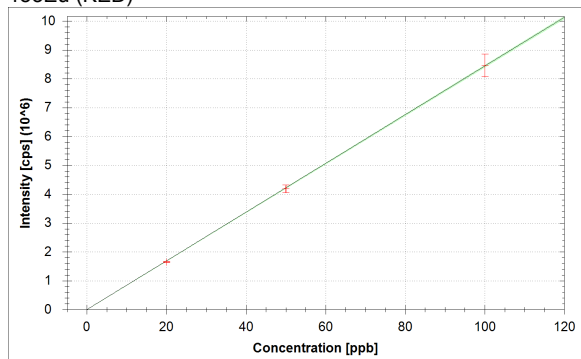
**<sup>152</sup>Sm (KED)**

$$f(x) = 42001.0290 \cdot x + 8.4990$$

$$R^2 = 0.9998$$

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

$$\text{LoD} = 0.0003 \text{ ppb}$$

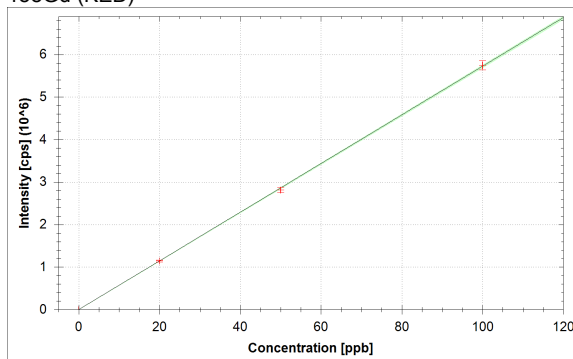
**<sup>153</sup>Eu (KED)**

$$f(x) = 84392.5193 \cdot x + 10.6120$$

$$R^2 = 0.9999$$

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

$$\text{LoD} = 0.0003 \text{ ppb}$$

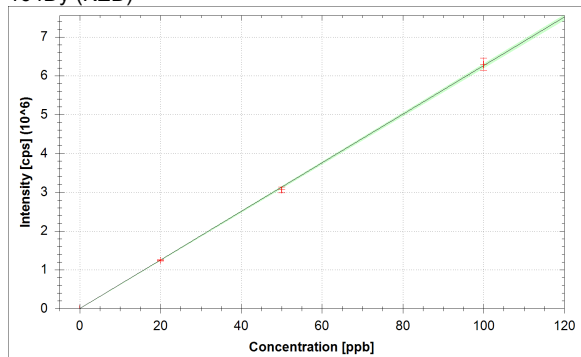
**<sup>158</sup>Gd (KED)**

$$f(x) = 57238.4588 \cdot x + 10.8085$$

$$R^2 = 0.9999$$

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

$$\text{LoD} = 0.0001 \text{ ppb}$$

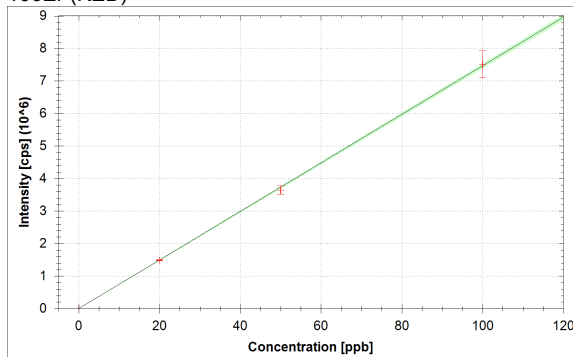
**<sup>164</sup>Dy (KED)**

$$f(x) = 62572.8476 \cdot x + 29.9841$$

$$R^2 = 0.9998$$

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

$$\text{LoD} = 0.0003 \text{ ppb}$$

**<sup>166</sup>Er (KED)**

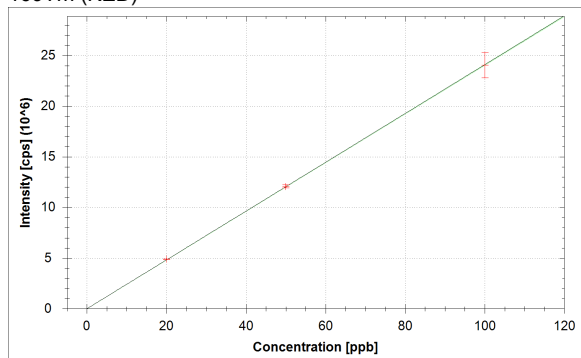
$$f(x) = 74658.6365 \cdot x + 356.3700$$

$$R^2 = 0.9997$$

$$\text{BEC} = 0.005 \text{ ppb}$$

$$\text{LoD} = 0.0022 \text{ ppb}$$

169Tm (KED)



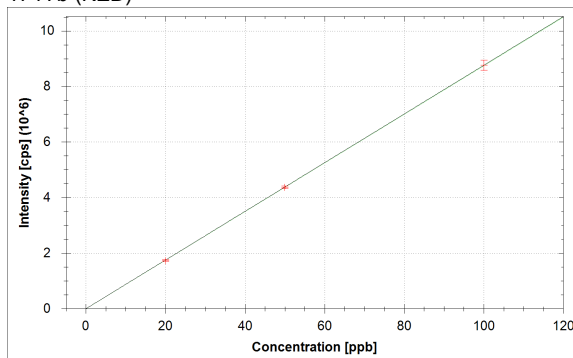
$$f(x) = 240863.0685 \cdot x + 8.4344$$

$$R^2 = 1.0000$$

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

$$\text{LoD} = 0.0001 \text{ ppb}$$

174Yb (KED)



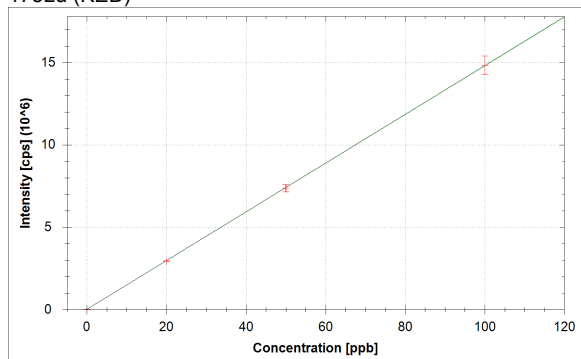
$$f(x) = 87571.8115 \cdot x + 27.5708$$

$$R^2 = 1.0000$$

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

$$\text{LoD} = 0.0001 \text{ ppb}$$

175Lu (KED)



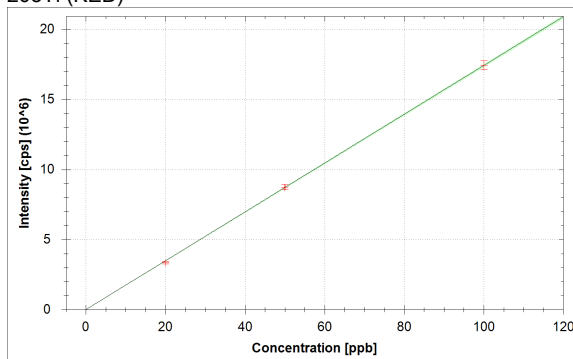
$$f(x) = 147921.5746 \cdot x + 15091.6802$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.102 \text{ ppb}$$

$$\text{LoD} = 0.0149 \text{ ppb}$$

205TI (KED)



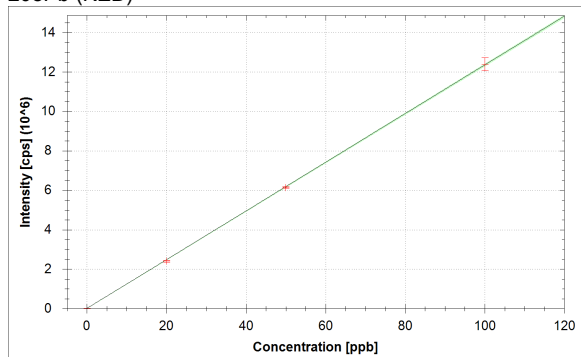
$$f(x) = 174306.4859 \cdot x + 45.7268$$

$$R^2 = 0.9999$$

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

$$\text{LoD} = 0.0001 \text{ ppb}$$

208Pb (KED)



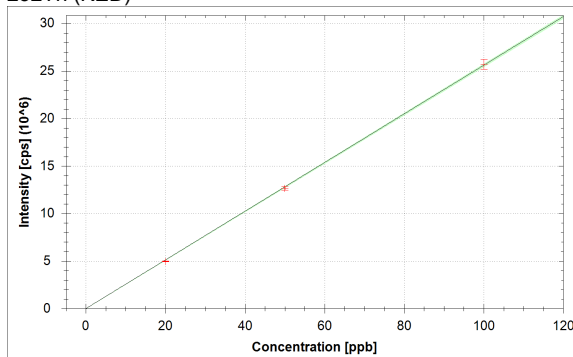
$$f(x) = 123462.1425 \cdot x + 9797.3352$$

$$R^2 = 0.9999$$

$$\text{BEC} = 0.079 \text{ ppb}$$

$$\text{LoD} = 0.0008 \text{ ppb}$$

232Th (KED)



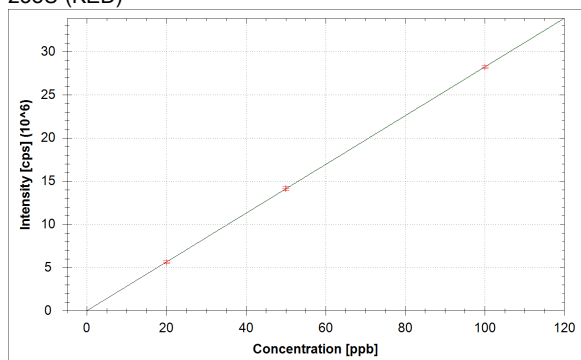
$$f(x) = 256054.8325 \cdot x + 270.2665$$

$$R^2 = 0.9999$$

$$\text{BEC} = 0.001 \text{ ppb}$$

$$\text{LoD} = 0.0004 \text{ ppb}$$

238U (KED)



$$f(x) = 282256.7919 \cdot x + 183.2573$$

$$R^2 = 1.0000$$

$$\text{BEC} = 0.001 \text{ ppb}$$

$$\text{LoD} = 0.0005 \text{ ppb}$$

**Standards:**

Analysis Index: 3  
 Analysis Name: 0+20  
 Analysis Type: STD  
 Analysis Started at: 11/3/2021 2:36:38 PM  
 Standard (Stock): std0  
 Standard DF: 1

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (KED)	94.439 %		
9Be (KED)	0.000 ppb		0.000 ppb
11B (KED)	0.000 ppb	0.1 %	0.000 ppb
24Mg (KED)	0.000 ppb	0.4 %	0.000 ppb
27Al (KED)	0.000 ppb	0.4 %	0.000 ppb
45Sc (KED)	94.020 %		
51V (KED)	0.000 ppb	0.4 %	0.000 ppb
52Cr (KED)	0.000 ppb	0.3 %	0.000 ppb
55Mn (KED)	0.000 ppb	0.4 %	0.000 ppb
56Fe (KED)	0.000 ppb	0.3 %	0.000 ppb
58Ni (KED)	0.000 ppb	0.1 %	0.000 ppb
59Co (KED)	0.000 ppb	0.4 %	0.000 ppb
63Cu (KED)	0.000 ppb	0.2 %	0.000 ppb
64Zn (KED)	0.000 ppb	0.5 %	0.000 ppb
69Ga (KED)	0.000 ppb	0.4 %	0.000 ppb
75As (KED)	0.000 ppb	1.0 %	0.000 ppb
80Se (KED)	0.000 ppb	0.1 %	0.000 ppb
85Rb (KED)	0.000 ppb	0.7 %	0.000 ppb
88Sr (KED)	0.000 ppb	0.3 %	0.000 ppb
89Y (KED)	93.043 %		
107Ag (KED)	0.000 ppb	0.4 %	0.000 ppb
114Cd (KED)	0.000 ppb	0.5 %	0.000 ppb
115In (KED)	93.449 %		
133Cs (KED)	0.000 ppb	0.5 %	0.000 ppb
138Ba (KED)	0.000 ppb	0.3 %	0.000 ppb
139La (KED)	0.000 ppb	0.3 %	0.000 ppb
140Ce (KED)	0.000 ppb	0.3 %	0.000 ppb
141Pr (KED)	0.000 ppb	0.2 %	0.000 ppb
142Nd (KED)	0.000 ppb	0.2 %	0.000 ppb
152Sm (KED)	0.000 ppb	0.9 %	0.000 ppb
153Eu (KED)	0.000 ppb	0.9 %	0.000 ppb
158Gd (KED)	0.000 ppb	0.9 %	0.000 ppb
159Tb (KED)	93.025 %		
164Dy (KED)	0.000 ppb	0.3 %	0.000 ppb
166Er (KED)	0.000 ppb	0.1 %	0.000 ppb
169Tm (KED)	0.000 ppb	0.5 %	0.000 ppb
174Yb (KED)	0.000 ppb	0.3 %	0.000 ppb
175Lu (KED)	0.000 ppb	0.0 %	0.000 ppb
205Tl (KED)	0.000 ppb	0.2 %	0.000 ppb
208Pb (KED)	0.000 ppb	0.3 %	0.000 ppb
209Bi (KED)	92.572 %		
232Th (KED)	0.000 ppb	0.0 %	0.000 ppb
238U (KED)	0.000 ppb	0.3 %	0.000 ppb

**Standards:**

Analysis Index: 4  
 Analysis Name: 20+20  
 Analysis Type: STD  
 Analysis Started at: 11/3/2021 2:39:57 PM  
 Standard (Stock): std3  
 Standard DF: 1

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (KED)	103.572 %		
9Be (KED)	19.771 ppb	1.4 %	20.000 ppb
11B (KED)	5.488 ppb	70.8 %	20.000 ppb
24Mg (KED)	19.593 ppb	3.4 %	20.000 ppb
27Al (KED)	19.281 ppb	3.2 %	20.000 ppb
45Sc (KED)	103.480 %		
51V (KED)	20.129 ppb	0.5 %	20.000 ppb
52Cr (KED)	20.165 ppb	0.2 %	20.000 ppb
55Mn (KED)	20.268 ppb	0.9 %	20.000 ppb
56Fe (KED)	20.041 ppb	1.6 %	20.000 ppb
58Ni (KED)	20.577 ppb	2.0 %	20.000 ppb
59Co (KED)	20.339 ppb	2.1 %	20.000 ppb
63Cu (KED)	19.993 ppb	0.6 %	20.000 ppb
64Zn (KED)	18.409 ppb	0.5 %	20.000 ppb
69Ga (KED)	19.610 ppb	0.6 %	20.000 ppb
75As (KED)	19.602 ppb	0.9 %	20.000 ppb
80Se (KED)	19.579 ppb	0.6 %	20.000 ppb
85Rb (KED)	20.113 ppb	2.6 %	20.000 ppb
88Sr (KED)	20.288 ppb	0.9 %	20.000 ppb
89Y (KED)	103.176 %		
107Ag (KED)	19.543 ppb	1.4 %	20.000 ppb
114Cd (KED)	19.905 ppb	1.1 %	20.000 ppb
115In (KED)	102.719 %		
133Cs (KED)	19.846 ppb	1.3 %	20.000 ppb
138Ba (KED)	19.896 ppb	1.0 %	20.000 ppb
139La (KED)	19.671 ppb	0.9 %	20.000 ppb
140Ce (KED)	19.923 ppb	1.6 %	20.000 ppb
141Pr (KED)	19.520 ppb	1.5 %	20.000 ppb
142Nd (KED)	19.785 ppb	1.0 %	20.000 ppb
152Sm (KED)	20.166 ppb	2.0 %	20.000 ppb
153Eu (KED)	19.538 ppb	1.5 %	20.000 ppb
158Gd (KED)	19.942 ppb	2.3 %	20.000 ppb
159Tb (KED)	102.076 %		
164Dy (KED)	19.943 ppb	1.6 %	20.000 ppb
166Er (KED)	19.896 ppb	1.1 %	20.000 ppb
169Tm (KED)	20.321 ppb	0.6 %	20.000 ppb
174Yb (KED)	19.773 ppb	2.2 %	20.000 ppb
175Lu (KED)	19.741 ppb	0.4 %	20.000 ppb
205Tl (KED)	19.180 ppb	2.7 %	20.000 ppb
208Pb (KED)	19.380 ppb	2.0 %	20.000 ppb
209Bi (KED)	102.575 %		
232Th (KED)	19.386 ppb	1.0 %	20.000 ppb
238U (KED)	19.908 ppb	3.3 %	20.000 ppb

**Standards:**

Analysis Index: 5  
 Analysis Name: 50+20  
 Analysis Type: STD  
 Analysis Started at: 11/3/2021 2:43:14 PM  
 Standard (Stock): std1  
 Standard DF: 1

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (KED)	102.029 %		
9Be (KED)	49.799 ppb	1.3 %	50.000 ppb
11B (KED)	41.110 ppb	8.6 %	50.000 ppb
24Mg (KED)	50.312 ppb	0.8 %	50.000 ppb
27Al (KED)	51.381 ppb	2.2 %	50.000 ppb
45Sc (KED)	103.073 %		
51V (KED)	49.661 ppb	1.4 %	50.000 ppb
52Cr (KED)	50.005 ppb	1.0 %	50.000 ppb
55Mn (KED)	49.778 ppb	0.8 %	50.000 ppb
56Fe (KED)	50.075 ppb	1.3 %	50.000 ppb
58Ni (KED)	50.191 ppb	0.5 %	50.000 ppb
59Co (KED)	49.818 ppb	1.0 %	50.000 ppb
63Cu (KED)	50.286 ppb	1.7 %	50.000 ppb
64Zn (KED)	48.445 ppb	1.0 %	50.000 ppb
69Ga (KED)	49.374 ppb	0.9 %	50.000 ppb
75As (KED)	49.560 ppb	1.1 %	50.000 ppb
80Se (KED)	49.345 ppb	1.4 %	50.000 ppb
85Rb (KED)	49.634 ppb	0.9 %	50.000 ppb
88Sr (KED)	50.584 ppb	0.5 %	50.000 ppb
89Y (KED)	102.251 %		
107Ag (KED)	49.216 ppb	2.8 %	50.000 ppb
114Cd (KED)	49.741 ppb	2.2 %	50.000 ppb
115In (KED)	100.176 %		
133Cs (KED)	50.709 ppb	1.0 %	50.000 ppb
138Ba (KED)	49.653 ppb	2.4 %	50.000 ppb
139La (KED)	48.989 ppb	2.0 %	50.000 ppb
140Ce (KED)	49.553 ppb	3.0 %	50.000 ppb
141Pr (KED)	49.852 ppb	3.0 %	50.000 ppb
142Nd (KED)	49.275 ppb	1.6 %	50.000 ppb
152Sm (KED)	48.986 ppb	1.5 %	50.000 ppb
153Eu (KED)	49.527 ppb	3.2 %	50.000 ppb
158Gd (KED)	49.208 ppb	2.2 %	50.000 ppb
159Tb (KED)	101.820 %		
164Dy (KED)	48.830 ppb	2.5 %	50.000 ppb
166Er (KED)	48.759 ppb	3.6 %	50.000 ppb
169Tm (KED)	50.172 ppb	1.2 %	50.000 ppb
174Yb (KED)	49.878 ppb	1.0 %	50.000 ppb
175Lu (KED)	49.795 ppb	3.2 %	50.000 ppb
205Tl (KED)	50.144 ppb	2.1 %	50.000 ppb
208Pb (KED)	49.729 ppb	0.6 %	50.000 ppb
209Bi (KED)	100.643 %		
232Th (KED)	49.443 ppb	1.7 %	50.000 ppb
238U (KED)	50.138 ppb	1.7 %	50.000 ppb

## Standards:

Analysis Index: 6  
 Analysis Name: 100+20  
 Analysis Type: STD  
 Analysis Started at: 11/3/2021 2:46:26 PM  
 Standard (Stock): std2  
 Standard DF: 1

Category	Concentration average	Concentration RSD	Standard Concentration
6Li (KED)	103.978 %		
9Be (KED)	100.146 ppb	2.8 %	100.000 ppb
11B (KED)	107.347 ppb	1.5 %	100.000 ppb
24Mg (KED)	99.925 ppb	2.5 %	100.000 ppb
27Al (KED)	99.453 ppb	4.0 %	100.000 ppb
45Sc (KED)	104.985 %		
51V (KED)	100.144 ppb	1.6 %	100.000 ppb
52Cr (KED)	99.964 ppb	2.4 %	100.000 ppb
55Mn (KED)	100.058 ppb	3.4 %	100.000 ppb
56Fe (KED)	99.954 ppb	2.9 %	100.000 ppb
58Ni (KED)	99.789 ppb	2.8 %	100.000 ppb
59Co (KED)	100.023 ppb	3.2 %	100.000 ppb
63Cu (KED)	99.859 ppb	0.2 %	100.000 ppb
64Zn (KED)	101.096 ppb	0.4 %	100.000 ppb
69Ga (KED)	100.391 ppb	1.0 %	100.000 ppb
75As (KED)	100.299 ppb	1.2 %	100.000 ppb
80Se (KED)	100.412 ppb	1.6 %	100.000 ppb
85Rb (KED)	100.161 ppb	0.4 %	100.000 ppb
88Sr (KED)	99.650 ppb	1.0 %	100.000 ppb
89Y (KED)	102.766 %		
107Ag (KED)	100.483 ppb	0.4 %	100.000 ppb
114Cd (KED)	100.148 ppb	1.3 %	100.000 ppb
115In (KED)	101.139 %		
133Cs (KED)	99.676 ppb	0.7 %	100.000 ppb
138Ba (KED)	100.195 ppb	2.8 %	100.000 ppb
139La (KED)	100.571 ppb	2.3 %	100.000 ppb
140Ce (KED)	100.239 ppb	4.1 %	100.000 ppb
141Pr (KED)	100.170 ppb	3.6 %	100.000 ppb
142Nd (KED)	100.405 ppb	3.9 %	100.000 ppb
152Sm (KED)	100.474 ppb	3.5 %	100.000 ppb
153Eu (KED)	100.329 ppb	4.6 %	100.000 ppb
158Gd (KED)	100.408 ppb	1.9 %	100.000 ppb
159Tb (KED)	101.790 %		
164Dy (KED)	100.597 ppb	2.5 %	100.000 ppb
166Er (KED)	100.641 ppb	5.5 %	100.000 ppb
169Tm (KED)	99.850 ppb	5.3 %	100.000 ppb
174Yb (KED)	100.106 ppb	2.1 %	100.000 ppb
175Lu (KED)	100.154 ppb	3.9 %	100.000 ppb
205Tl (KED)	100.092 ppb	1.8 %	100.000 ppb
208Pb (KED)	100.259 ppb	2.6 %	100.000 ppb
209Bi (KED)	99.674 %		
232Th (KED)	100.401 ppb	2.0 %	100.000 ppb
238U (KED)	99.949 ppb	0.6 %	100.000 ppb

## Sample List Summary:

Instrument ID: iCAP Q

Index:	Label:	Main Runs:	Survey Runs:	Start Time:	User name:
1	water	3	0	11/3/2021 2:30:16 PM	WINDOWS-UPCI4ER\Administrator
2	blk	3	0	11/3/2021 2:33:14 PM	WINDOWS-UPCI4ER\Administrator
3	0+20	3	0	11/3/2021 2:36:38 PM	WINDOWS-UPCI4ER\Administrator
4	20+20	3	0	11/3/2021 2:39:57 PM	WINDOWS-UPCI4ER\Administrator
5	50+20	3	0	11/3/2021 2:43:14 PM	WINDOWS-UPCI4ER\Administrator
6	100+20	3	0	11/3/2021 2:46:26 PM	WINDOWS-UPCI4ER\Administrator
7	507403chang jian	3	0	11/3/2021 2:49:43 PM	WINDOWS-UPCI4ER\Administrator
8	804025duan jian	3	0	11/3/2021 2:53:12 PM	WINDOWS-UPCI4ER\Administrator
9	80108	3	0	11/3/2021 2:56:25 PM	WINDOWS-UPCI4ER\Administrator
10	853003chang jian	3	0	11/3/2021 2:59:37 PM	WINDOWS-UPCI4ER\Administrator
11	501281duan jian	3	0	11/3/2021 3:02:47 PM	WINDOWS-UPCI4ER\Administrator
12	714061duan jian	3	0	11/3/2021 3:05:58 PM	WINDOWS-UPCI4ER\Administrator
13	803270chang jian	3	0	11/3/2021 3:09:11 PM	WINDOWS-UPCI4ER\Administrator
14	80073	3	0	11/3/2021 3:12:23 PM	WINDOWS-UPCI4ER\Administrator
15	805324chang jian	3	0	11/3/2021 3:15:31 PM	WINDOWS-UPCI4ER\Administrator
16	706081chang jian	3	0	11/3/2021 3:18:44 PM	WINDOWS-UPCI4ER\Administrator
17	500157duan jian	3	0	11/3/2021 3:21:57 PM	WINDOWS-UPCI4ER\Administrator
18	80127	3	0	11/3/2021 3:25:06 PM	WINDOWS-UPCI4ER\Administrator
19	804239	3	0	11/3/2021 3:28:19 PM	WINDOWS-UPCI4ER\Administrator
20	605207duan jian	3	0	11/3/2021 3:31:33 PM	WINDOWS-UPCI4ER\Administrator
21	80171	3	0	11/3/2021 3:34:49 PM	WINDOWS-UPCI4ER\Administrator
22	803106chang jian	3	0	11/3/2021 3:38:03 PM	WINDOWS-UPCI4ER\Administrator
23	80110	3	0	11/3/2021 3:41:14 PM	WINDOWS-UPCI4ER\Administrator
24	503149chang jian	3	0	11/3/2021 3:44:29 PM	WINDOWS-UPCI4ER\Administrator
25	80016jian	3	0	11/3/2021 3:47:43 PM	WINDOWS-UPCI4ER\Administrator
26	80004jian	3	0	11/3/2021 3:50:54 PM	WINDOWS-UPCI4ER\Administrator
27	80130jian	3	0	11/3/2021 3:54:06 PM	WINDOWS-UPCI4ER\Administrator
28	80010jian	3	0	11/3/2021 3:57:25 PM	WINDOWS-UPCI4ER\Administrator
29	603104jian	3	0	11/3/2021 4:00:39 PM	WINDOWS-UPCI4ER\Administrator
30	80190jian	3	0	11/3/2021 4:03:51 PM	WINDOWS-UPCI4ER\Administrator
31	805193jian	1	0	11/3/2021 4:07:09 PM	WINDOWS-UPCI4ER\Administrator
32	80056jian	1	0	11/3/2021 4:09:01 PM	WINDOWS-UPCI4ER\Administrator
33	80089jian	1	0	11/3/2021 4:10:58 PM	WINDOWS-UPCI4ER\Administrator
34	855013jian	1	0	11/3/2021 4:12:56 PM	WINDOWS-UPCI4ER\Administrator
35	80138jian	1	0	11/3/2021 4:14:59 PM	WINDOWS-UPCI4ER\Administrator
36	804281 duan jian	1	0	11/3/2021 4:17:09 PM	WINDOWS-UPCI4ER\Administrator
37	853057duan jian	1	0	11/3/2021 4:19:04 PM	WINDOWS-UPCI4ER\Administrator
38	315042603860482jian	1	0	11/3/2021 4:21:00 PM	WINDOWS-UPCI4ER\Administrator
39	315047603860466jian	1	0	11/3/2021 4:22:59 PM	WINDOWS-UPCI4ER\Administrator
40	315042603860435jian	1	0	11/3/2021 4:24:49 PM	WINDOWS-UPCI4ER\Administrator
41	315047603860486jian	1	0	11/3/2021 4:26:43 PM	WINDOWS-UPCI4ER\Administrator
42	315047603860499jian	1	0	11/3/2021 4:28:35 PM	WINDOWS-UPCI4ER\Administrator
43	315047603860454jian	1	0	11/3/2021 4:30:27 PM	WINDOWS-UPCI4ER\Administrator
44	315042603860490jian	1	0	11/3/2021 4:32:30 PM	WINDOWS-UPCI4ER\Administrator
45	315047603860476jian	1	0	11/3/2021 4:34:22 PM	WINDOWS-UPCI4ER\Administrator
46	315047603860514jian	1	0	11/3/2021 4:36:18 PM	WINDOWS-UPCI4ER\Administrator

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 1

Analysis name: water

Analysis started at: 11/3/2021 2:30:16 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	0.041 %	173.2 %
11B (KED)	Infinity ppb	
24Mg (KED)	Infinity ppb	
27Al (KED)	60.628 ppb	179.9 %
45Sc (KED)	0.029 %	93.3 %
51V (KED)	2.105 ppb	60.7 %
52Cr (KED)	18.149 ppb	72.1 %
55Mn (KED)	5.461 ppb	60.8 %
56Fe (KED)	211.668 ppb	101.5 %
58Ni (KED)	38.531 ppb	54.4 %
59Co (KED)	0.142 ppb	175.2 %
63Cu (KED)	Infinity ppb	
64Zn (KED)	Infinity ppb	
75As (KED)	Infinity ppb	
80Se (KED)	Infinity ppb	
85Rb (KED)	Infinity ppb	
89Y (KED)	0.000 %	
107Ag (KED)	Infinity ppb	
114Cd (KED)	Infinity ppb	
115In (KED)	0.000 %	173.2 %
159Tb (KED)	0.000 %	
205Tl (KED)	82.137 ppb	20.2 %
208Pb (KED)	26.989 ppb	9.4 %
209Bi (KED)	0.001 %	13.3 %
232Th (KED)	0.666 ppb	88.3 %
238U (KED)	-0.001 ppb	0.0 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	0.041 %	1 cps	173.2 %
9Be (KED)		0 cps	
11B (KED)	Infinity ppb	18 cps	47.2 %
24Mg (KED)	Infinity ppb	6 cps	34.6 %
27Al (KED)	60.628 ppb	1 cps	173.2 %
45Sc (KED)	0.029 %	14 cps	93.3 %
51V (KED)	2.105 ppb	3 cps	0.0 %
52Cr (KED)	18.149 ppb	41 cps	28.5 %
55Mn (KED)	5.461 ppb	7 cps	0.0 %
56Fe (KED)	211.668 ppb	412 cps	68.9 %
58Ni (KED)	38.531 ppb	117 cps	15.1 %
59Co (KED)	0.142 ppb	2 cps	173.2 %
63Cu (KED)	Infinity ppb	38 cps	28.4 %
64Zn (KED)	Infinity ppb	118 cps	41.7 %
69Ga (KED)		1 cps	173.2 %
75As (KED)	Infinity ppb	14 cps	35.3 %
80Se (KED)	Infinity ppb	1,257 cps	3.4 %
85Rb (KED)	Infinity ppb	7 cps	50.0 %
88Sr (KED)		3 cps	100.0 %
89Y (KED)	0.000 %	0 cps	
107Ag (KED)	Infinity ppb	14 cps	13.3 %
114Cd (KED)	Infinity ppb	2 cps	86.6 %

Category	Concentration average	Intensity average	Intensity RSD
115In (KED)	0.000 %	1 cps	173.2 %
133Cs (KED)		2 cps	173.2 %
138Ba (KED)		10 cps	88.2 %
139La (KED)		0 cps	
140Ce (KED)		0 cps	
141Pr (KED)		1 cps	173.2 %
142Nd (KED)		0 cps	
152Sm (KED)		0 cps	
153Eu (KED)		0 cps	
158Gd (KED)		0 cps	
159Tb (KED)	0.000 %	0 cps	
164Dy (KED)		0 cps	
166Er (KED)		1 cps	173.2 %
169Tm (KED)		1 cps	173.2 %
174Yb (KED)		0 cps	
175Lu (KED)		3 cps	173.2 %
205Tl (KED)	82.137 ppb	180 cps	17.0 %
208Pb (KED)	26.989 ppb	42 cps	12.1 %
209Bi (KED)	0.001 %	43 cps	13.3 %
232Th (KED)	0.666 ppb	2 cps	86.6 %
238U (KED)	-0.001 ppb	0 cps	

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 2

Analysis name: blk

Analysis started at: 11/3/2021 2:33:14 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	100.000 %	
9Be (KED)	0.015 ppb	86.6 %
11B (KED)	-2.854 ppb	49.2 %
24Mg (KED)	-0.284 ppb	17.9 %
27Al (KED)	-1.364 ppb	6.2 %
45Sc (KED)	100.000 %	
51V (KED)	0.000 ppb	66.5 %
52Cr (KED)	-0.002 ppb	9.0 %
55Mn (KED)	-0.003 ppb	66.1 %
56Fe (KED)	-0.179 ppb	11.4 %
58Ni (KED)	-0.002 ppb	61.7 %
59Co (KED)	0.000 ppb	274.3 %
63Cu (KED)	-0.020 ppb	2.9 %
64Zn (KED)	-1.680 ppb	0.9 %
69Ga (KED)	-0.016 ppb	19.1 %
75As (KED)	-0.002 ppb	245.5 %
80Se (KED)	-0.424 ppb	53.3 %
85Rb (KED)	-0.002 ppb	81.6 %
88Sr (KED)	-0.007 ppb	14.6 %
89Y (KED)	100.000 %	
107Ag (KED)	0.000 ppb	703.7 %
114Cd (KED)	-0.001 ppb	105.2 %
115In (KED)	100.000 %	
133Cs (KED)	-0.001 ppb	24.6 %
138Ba (KED)	-0.059 ppb	0.8 %
139La (KED)	-0.001 ppb	33.9 %
140Ce (KED)	-0.006 ppb	2.1 %
141Pr (KED)	0.000 ppb	49.2 %
142Nd (KED)	-0.004 ppb	19.6 %
152Sm (KED)	0.000 ppb	64.6 %
153Eu (KED)	0.000 ppb	1,623.9 %
158Gd (KED)	0.000 ppb	85.2 %
159Tb (KED)	100.000 %	
164Dy (KED)	0.000 ppb	36.5 %
166Er (KED)	-0.001 ppb	88.0 %
169Tm (KED)	0.000 ppb	125.8 %
174Yb (KED)	0.000 ppb	17.6 %
175Lu (KED)	0.009 ppb	55.7 %
205Tl (KED)	0.000 ppb	60.1 %
208Pb (KED)	-0.042 ppb	0.7 %
209Bi (KED)	100.000 %	
232Th (KED)	0.000 ppb	29.6 %
238U (KED)	0.000 ppb	106.6 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	100.000 %	2,738 cps	5.1 %
9Be (KED)	0.015 ppb	2 cps	86.6 %
11B (KED)	-2.854 ppb	1,418 cps	2.3 %
24Mg (KED)	-0.284 ppb	133 cps	19.8 %
27Al (KED)	-1.364 ppb	129 cps	9.1 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	100.000 %	50,360 cps	1.3 %
51V (KED)	0.000 ppb	8 cps	24.7 %
52Cr (KED)	-0.002 ppb	83 cps	4.0 %
55Mn (KED)	-0.003 ppb	71 cps	17.7 %
56Fe (KED)	-0.179 ppb	2,390 cps	9.5 %
58Ni (KED)	-0.002 ppb	281 cps	6.7 %
59Co (KED)	0.000 ppb	48 cps	35.8 %
63Cu (KED)	-0.020 ppb	578 cps	1.5 %
64Zn (KED)	-1.680 ppb	3,079 cps	3.2 %
69Ga (KED)	-0.016 ppb	69 cps	28.4 %
75As (KED)	-0.002 ppb	8 cps	99.0 %
80Se (KED)	-0.424 ppb	1,241 cps	7.4 %
85Rb (KED)	-0.002 ppb	10 cps	88.2 %
88Sr (KED)	-0.007 ppb	154 cps	5.4 %
89Y (KED)	100.000 %	444,973 cps	0.7 %
107Ag (KED)	0.000 ppb	39 cps	32.5 %
114Cd (KED)	-0.001 ppb	31 cps	49.5 %
115In (KED)	100.000 %	802,552 cps	0.5 %
133Cs (KED)	-0.001 ppb	19 cps	20.4 %
138Ba (KED)	-0.059 ppb	1,226 cps	4.8 %
139La (KED)	-0.001 ppb	37 cps	41.7 %
140Ce (KED)	-0.006 ppb	573 cps	2.5 %
141Pr (KED)	0.000 ppb	23 cps	42.9 %
142Nd (KED)	-0.004 ppb	83 cps	38.2 %
152Sm (KED)	0.000 ppb	2 cps	173.2 %
153Eu (KED)	0.000 ppb	11 cps	75.5 %
158Gd (KED)	0.000 ppb	9 cps	21.7 %
159Tb (KED)	100.000 %	4,015,074 cps	3.3 %
164Dy (KED)	0.000 ppb	14 cps	35.3 %
166Er (KED)	-0.001 ppb	294 cps	17.0 %
169Tm (KED)	0.000 ppb	13 cps	43.3 %
174Yb (KED)	0.000 ppb	10 cps	33.3 %
175Lu (KED)	0.009 ppb	16,396 cps	1.2 %
205Tl (KED)	0.000 ppb	57 cps	11.8 %
208Pb (KED)	-0.042 ppb	4,645 cps	0.7 %
209Bi (KED)	100.000 %	3,417,862 cps	1.1 %
232Th (KED)	0.000 ppb	379 cps	7.5 %
238U (KED)	0.000 ppb	138 cps	33.9 %

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 3

Analysis name: 0+20

Analysis started at: 11/3/2021 2:36:38 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	94.439 %	
9Be (KED)	0.000 ppb	
11B (KED)	0.000 ppb	0.1 %
24Mg (KED)	0.000 ppb	0.4 %
27Al (KED)	0.000 ppb	0.4 %
45Sc (KED)	94.020 %	
51V (KED)	0.000 ppb	0.4 %
52Cr (KED)	0.000 ppb	0.3 %
55Mn (KED)	0.000 ppb	0.4 %
56Fe (KED)	0.000 ppb	0.3 %
58Ni (KED)	0.000 ppb	0.1 %
59Co (KED)	0.000 ppb	0.4 %
63Cu (KED)	0.000 ppb	0.2 %
64Zn (KED)	0.000 ppb	0.5 %
69Ga (KED)	0.000 ppb	0.4 %
75As (KED)	0.000 ppb	1.0 %
80Se (KED)	0.000 ppb	0.1 %
85Rb (KED)	0.000 ppb	0.7 %
88Sr (KED)	0.000 ppb	0.3 %
89Y (KED)	93.043 %	
107Ag (KED)	0.000 ppb	0.4 %
114Cd (KED)	0.000 ppb	0.5 %
115In (KED)	93.449 %	
133Cs (KED)	0.000 ppb	0.5 %
138Ba (KED)	0.000 ppb	0.3 %
139La (KED)	0.000 ppb	0.3 %
140Ce (KED)	0.000 ppb	0.3 %
141Pr (KED)	0.000 ppb	0.2 %
142Nd (KED)	0.000 ppb	0.2 %
152Sm (KED)	0.000 ppb	0.9 %
153Eu (KED)	0.000 ppb	0.9 %
158Gd (KED)	0.000 ppb	0.9 %
159Tb (KED)	93.025 %	
164Dy (KED)	0.000 ppb	0.3 %
166Er (KED)	0.000 ppb	0.1 %
169Tm (KED)	0.000 ppb	0.5 %
174Yb (KED)	0.000 ppb	0.3 %
175Lu (KED)	0.000 ppb	0.0 %
205Tl (KED)	0.000 ppb	0.2 %
208Pb (KED)	0.000 ppb	0.3 %
209Bi (KED)	92.572 %	
232Th (KED)	0.000 ppb	0.0 %
238U (KED)	0.000 ppb	0.3 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	94.439 %	2,586 cps	1.9 %
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	0.000 ppb	1,501 cps	6.2 %
24Mg (KED)	0.000 ppb	268 cps	37.8 %
27Al (KED)	0.000 ppb	289 cps	38.8 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	94.020 %	47,349 cps	4.0 %
51V (KED)	0.000 ppb	10 cps	33.3 %
52Cr (KED)	0.000 ppb	106 cps	25.5 %
55Mn (KED)	0.000 ppb	86 cps	38.2 %
56Fe (KED)	0.000 ppb	4,306 cps	28.2 %
58Ni (KED)	0.000 ppb	291 cps	10.6 %
59Co (KED)	0.000 ppb	39 cps	39.6 %
63Cu (KED)	0.000 ppb	918 cps	18.2 %
64Zn (KED)	0.000 ppb	10,868 cps	43.7 %
69Ga (KED)	0.000 ppb	159 cps	35.3 %
75As (KED)	0.000 ppb	10 cps	100.0 %
80Se (KED)	0.000 ppb	1,328 cps	2.1 %
85Rb (KED)	0.000 ppb	19 cps	66.8 %
88Sr (KED)	0.000 ppb	194 cps	25.1 %
89Y (KED)	93.043 %	414,016 cps	4.6 %
107Ag (KED)	0.000 ppb	38 cps	36.7 %
114Cd (KED)	0.000 ppb	42 cps	47.6 %
115In (KED)	93.449 %	749,978 cps	4.1 %
133Cs (KED)	0.000 ppb	32 cps	48.9 %
138Ba (KED)	0.000 ppb	3,306 cps	29.8 %
139La (KED)	0.000 ppb	80 cps	29.2 %
140Ce (KED)	0.000 ppb	1,134 cps	24.5 %
141Pr (KED)	0.000 ppb	42 cps	18.2 %
142Nd (KED)	0.000 ppb	240 cps	15.3 %
152Sm (KED)	0.000 ppb	8 cps	89.2 %
153Eu (KED)	0.000 ppb	10 cps	88.2 %
158Gd (KED)	0.000 ppb	10 cps	88.2 %
159Tb (KED)	93.025 %	3,735,015 cps	2.7 %
164Dy (KED)	0.000 ppb	28 cps	25.0 %
166Er (KED)	0.000 ppb	331 cps	4.2 %
169Tm (KED)	0.000 ppb	8 cps	49.5 %
174Yb (KED)	0.000 ppb	26 cps	27.2 %
175Lu (KED)	0.000 ppb	14,047 cps	5.8 %
205Tl (KED)	0.000 ppb	42 cps	16.4 %
208Pb (KED)	0.000 ppb	9,029 cps	28.0 %
209Bi (KED)	92.572 %	3,163,983 cps	2.3 %
232Th (KED)	0.000 ppb	250 cps	2.7 %
238U (KED)	0.000 ppb	169 cps	26.9 %

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 4

Analysis name: 20+20

Analysis started at: 11/3/2021 2:39:57 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	103.572 %	
9Be (KED)	19.771 ppb	1.4 %
11B (KED)	5.488 ppb	70.8 %
24Mg (KED)	19.593 ppb	3.4 %
27Al (KED)	19.281 ppb	3.2 %
45Sc (KED)	103.480 %	
51V (KED)	20.129 ppb	0.5 %
52Cr (KED)	20.165 ppb	0.2 %
55Mn (KED)	20.268 ppb	0.9 %
56Fe (KED)	20.041 ppb	1.6 %
58Ni (KED)	20.577 ppb	2.0 %
59Co (KED)	20.339 ppb	2.1 %
63Cu (KED)	19.993 ppb	0.6 %
64Zn (KED)	18.409 ppb	0.5 %
69Ga (KED)	19.610 ppb	0.6 %
75As (KED)	19.602 ppb	0.9 %
80Se (KED)	19.579 ppb	0.6 %
85Rb (KED)	20.113 ppb	2.6 %
88Sr (KED)	20.288 ppb	0.9 %
89Y (KED)	103.176 %	
107Ag (KED)	19.543 ppb	1.4 %
114Cd (KED)	19.905 ppb	1.1 %
115In (KED)	102.719 %	
133Cs (KED)	19.846 ppb	1.3 %
138Ba (KED)	19.896 ppb	1.0 %
139La (KED)	19.671 ppb	0.9 %
140Ce (KED)	19.923 ppb	1.6 %
141Pr (KED)	19.520 ppb	1.5 %
142Nd (KED)	19.785 ppb	1.0 %
152Sm (KED)	20.166 ppb	2.0 %
153Eu (KED)	19.538 ppb	1.5 %
158Gd (KED)	19.942 ppb	2.3 %
159Tb (KED)	102.076 %	
164Dy (KED)	19.943 ppb	1.6 %
166Er (KED)	19.896 ppb	1.1 %
169Tm (KED)	20.321 ppb	0.6 %
174Yb (KED)	19.773 ppb	2.2 %
175Lu (KED)	19.741 ppb	0.4 %
205Tl (KED)	19.180 ppb	2.7 %
208Pb (KED)	19.380 ppb	2.0 %
209Bi (KED)	102.575 %	
232Th (KED)	19.386 ppb	1.0 %
238U (KED)	19.908 ppb	3.3 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	103.572 %	2,836 cps	2.3 %
9Be (KED)	19.771 ppb	2,943 cps	1.3 %
11B (KED)	5.488 ppb	1,989 cps	13.3 %
24Mg (KED)	19.593 ppb	11,096 cps	1.2 %
27Al (KED)	19.281 ppb	2,981 cps	3.3 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	103.480 %	52,113 cps	1.5 %
51V (KED)	20.129 ppb	184,474 cps	1.1 %
52Cr (KED)	20.165 ppb	289,502 cps	1.6 %
55Mn (KED)	20.268 ppb	143,016 cps	1.3 %
56Fe (KED)	20.041 ppb	262,086 cps	1.5 %
58Ni (KED)	20.577 ppb	339,202 cps	0.9 %
59Co (KED)	20.339 ppb	545,843 cps	0.7 %
63Cu (KED)	19.993 ppb	420,432 cps	0.7 %
64Zn (KED)	18.409 ppb	111,388 cps	0.4 %
69Ga (KED)	19.610 ppb	133,289 cps	0.5 %
75As (KED)	19.602 ppb	30,507 cps	0.9 %
80Se (KED)	19.579 ppb	10,450 cps	0.5 %
85Rb (KED)	20.113 ppb	121,854 cps	2.5 %
88Sr (KED)	20.288 ppb	171,855 cps	0.8 %
89Y (KED)	103.176 %	459,104 cps	0.1 %
107Ag (KED)	19.543 ppb	1,075,479 cps	1.5 %
114Cd (KED)	19.905 ppb	399,548 cps	0.5 %
115In (KED)	102.719 %	824,371 cps	0.6 %
133Cs (KED)	19.846 ppb	604,661 cps	0.7 %
138Ba (KED)	19.896 ppb	815,315 cps	1.1 %
139La (KED)	19.671 ppb	1,758,926 cps	1.1 %
140Ce (KED)	19.923 ppb	2,353,322 cps	1.9 %
141Pr (KED)	19.520 ppb	2,372,734 cps	1.3 %
142Nd (KED)	19.785 ppb	965,001 cps	0.7 %
152Sm (KED)	20.166 ppb	864,573 cps	1.9 %
153Eu (KED)	19.538 ppb	1,683,100 cps	1.3 %
158Gd (KED)	19.942 ppb	1,165,152 cps	2.3 %
159Tb (KED)	102.076 %	4,098,409 cps	0.3 %
164Dy (KED)	19.943 ppb	1,273,878 cps	1.9 %
166Er (KED)	19.896 ppb	1,516,558 cps	0.9 %
169Tm (KED)	20.321 ppb	4,996,141 cps	0.3 %
174Yb (KED)	19.773 ppb	1,767,505 cps	2.0 %
175Lu (KED)	19.741 ppb	2,996,213 cps	0.6 %
205Tl (KED)	19.180 ppb	3,427,988 cps	0.8 %
208Pb (KED)	19.380 ppb	2,463,832 cps	1.4 %
209Bi (KED)	102.575 %	3,505,864 cps	2.3 %
232Th (KED)	19.386 ppb	5,091,903 cps	2.4 %
238U (KED)	19.908 ppb	5,761,381 cps	1.2 %

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 5

Analysis name: 50+20

Analysis started at: 11/3/2021 2:43:14 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	102.029 %	
9Be (KED)	49.799 ppb	1.3 %
11B (KED)	41.110 ppb	8.6 %
24Mg (KED)	50.312 ppb	0.8 %
27Al (KED)	51.381 ppb	2.2 %
45Sc (KED)	103.073 %	
51V (KED)	49.661 ppb	1.4 %
52Cr (KED)	50.005 ppb	1.0 %
55Mn (KED)	49.778 ppb	0.8 %
56Fe (KED)	50.075 ppb	1.3 %
58Ni (KED)	50.191 ppb	0.5 %
59Co (KED)	49.818 ppb	1.0 %
63Cu (KED)	50.286 ppb	1.7 %
64Zn (KED)	48.445 ppb	1.0 %
69Ga (KED)	49.374 ppb	0.9 %
75As (KED)	49.560 ppb	1.1 %
80Se (KED)	49.345 ppb	1.4 %
85Rb (KED)	49.634 ppb	0.9 %
88Sr (KED)	50.584 ppb	0.5 %
89Y (KED)	102.251 %	
107Ag (KED)	49.216 ppb	2.8 %
114Cd (KED)	49.741 ppb	2.2 %
115In (KED)	100.176 %	
133Cs (KED)	50.709 ppb	1.0 %
138Ba (KED)	49.653 ppb	2.4 %
139La (KED)	48.989 ppb	2.0 %
140Ce (KED)	49.553 ppb	3.0 %
141Pr (KED)	49.852 ppb	3.0 %
142Nd (KED)	49.275 ppb	1.6 %
152Sm (KED)	48.986 ppb	1.5 %
153Eu (KED)	49.527 ppb	3.2 %
158Gd (KED)	49.208 ppb	2.2 %
159Tb (KED)	101.820 %	
164Dy (KED)	48.830 ppb	2.5 %
166Er (KED)	48.759 ppb	3.6 %
169Tm (KED)	50.172 ppb	1.2 %
174Yb (KED)	49.878 ppb	1.0 %
175Lu (KED)	49.795 ppb	3.2 %
205Tl (KED)	50.144 ppb	2.1 %
208Pb (KED)	49.729 ppb	0.6 %
209Bi (KED)	100.643 %	
232Th (KED)	49.443 ppb	1.7 %
238U (KED)	50.138 ppb	1.7 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	102.029 %	2,794 cps	0.8 %
9Be (KED)	49.799 ppb	7,302 cps	0.6 %
11B (KED)	41.110 ppb	4,130 cps	4.4 %
24Mg (KED)	50.312 ppb	27,626 cps	0.3 %
27Al (KED)	51.381 ppb	7,380 cps	1.6 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	103.073 %	51,908 cps	1.0 %
51V (KED)	49.661 ppb	453,295 cps	0.6 %
52Cr (KED)	50.005 ppb	714,929 cps	1.9 %
55Mn (KED)	49.778 ppb	349,723 cps	0.4 %
56Fe (KED)	50.075 ppb	645,151 cps	0.3 %
58Ni (KED)	50.191 ppb	823,797 cps	0.6 %
59Co (KED)	49.818 ppb	1,331,907 cps	1.1 %
63Cu (KED)	50.286 ppb	1,046,328 cps	0.9 %
64Zn (KED)	48.445 ppb	270,702 cps	0.3 %
69Ga (KED)	49.374 ppb	332,302 cps	0.4 %
75As (KED)	49.560 ppb	76,419 cps	0.5 %
80Se (KED)	49.345 ppb	23,880 cps	1.9 %
85Rb (KED)	49.634 ppb	297,989 cps	1.8 %
88Sr (KED)	50.584 ppb	424,317 cps	1.1 %
89Y (KED)	102.251 %	454,992 cps	1.1 %
107Ag (KED)	49.216 ppb	2,640,921 cps	2.2 %
114Cd (KED)	49.741 ppb	973,542 cps	1.0 %
115In (KED)	100.176 %	803,962 cps	1.2 %
133Cs (KED)	50.709 ppb	1,506,640 cps	0.3 %
138Ba (KED)	49.653 ppb	2,023,239 cps	0.5 %
139La (KED)	48.989 ppb	4,367,744 cps	1.0 %
140Ce (KED)	49.553 ppb	5,833,400 cps	1.0 %
141Pr (KED)	49.852 ppb	6,041,173 cps	0.7 %
142Nd (KED)	49.275 ppb	2,396,275 cps	1.6 %
152Sm (KED)	48.986 ppb	2,094,349 cps	1.6 %
153Eu (KED)	49.527 ppb	4,254,192 cps	2.7 %
158Gd (KED)	49.208 ppb	2,866,760 cps	1.2 %
159Tb (KED)	101.820 %	4,088,166 cps	2.9 %
164Dy (KED)	48.830 ppb	3,109,567 cps	0.4 %
166Er (KED)	48.759 ppb	3,704,377 cps	0.9 %
169Tm (KED)	50.172 ppb	12,301,803 cps	1.8 %
174Yb (KED)	49.878 ppb	4,446,607 cps	1.9 %
175Lu (KED)	49.795 ppb	7,511,137 cps	1.6 %
205Tl (KED)	50.144 ppb	8,794,704 cps	0.5 %
208Pb (KED)	49.729 ppb	6,189,396 cps	2.3 %
209Bi (KED)	100.643 %	3,439,835 cps	1.6 %
232Th (KED)	49.443 ppb	12,739,453 cps	0.1 %
238U (KED)	50.138 ppb	14,240,350 cps	0.2 %

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 6

Analysis name: 100+20

Analysis started at: 11/3/2021 2:46:26 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	103.978 %	
9Be (KED)	100.146 ppb	2.8 %
11B (KED)	107.347 ppb	1.5 %
24Mg (KED)	99.925 ppb	2.5 %
27Al (KED)	99.453 ppb	4.0 %
45Sc (KED)	104.985 %	
51V (KED)	100.144 ppb	1.6 %
52Cr (KED)	99.964 ppb	2.4 %
55Mn (KED)	100.058 ppb	3.4 %
56Fe (KED)	99.954 ppb	2.9 %
58Ni (KED)	99.789 ppb	2.8 %
59Co (KED)	100.023 ppb	3.2 %
63Cu (KED)	99.859 ppb	0.2 %
64Zn (KED)	101.096 ppb	0.4 %
69Ga (KED)	100.391 ppb	1.0 %
75As (KED)	100.299 ppb	1.2 %
80Se (KED)	100.412 ppb	1.6 %
85Rb (KED)	100.161 ppb	0.4 %
88Sr (KED)	99.650 ppb	1.0 %
89Y (KED)	102.766 %	
107Ag (KED)	100.483 ppb	0.4 %
114Cd (KED)	100.148 ppb	1.3 %
115In (KED)	101.139 %	
133Cs (KED)	99.676 ppb	0.7 %
138Ba (KED)	100.195 ppb	2.8 %
139La (KED)	100.571 ppb	2.3 %
140Ce (KED)	100.239 ppb	4.1 %
141Pr (KED)	100.170 ppb	3.6 %
142Nd (KED)	100.405 ppb	3.9 %
152Sm (KED)	100.474 ppb	3.5 %
153Eu (KED)	100.329 ppb	4.6 %
158Gd (KED)	100.408 ppb	1.9 %
159Tb (KED)	101.790 %	
164Dy (KED)	100.597 ppb	2.5 %
166Er (KED)	100.641 ppb	5.5 %
169Tm (KED)	99.850 ppb	5.3 %
174Yb (KED)	100.106 ppb	2.1 %
175Lu (KED)	100.154 ppb	3.9 %
205Tl (KED)	100.092 ppb	1.8 %
208Pb (KED)	100.259 ppb	2.6 %
209Bi (KED)	99.674 %	
232Th (KED)	100.401 ppb	2.0 %
238U (KED)	99.949 ppb	0.6 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	103.978 %	2,847 cps	1.0 %
9Be (KED)	100.146 ppb	14,965 cps	2.5 %
11B (KED)	107.347 ppb	8,326 cps	0.3 %
24Mg (KED)	99.925 ppb	55,618 cps	1.7 %
27Al (KED)	99.453 ppb	14,240 cps	2.9 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	104.985 %	52,871 cps	2.1 %
51V (KED)	100.144 ppb	930,916 cps	0.7 %
52Cr (KED)	99.964 ppb	1,455,032 cps	0.5 %
55Mn (KED)	100.058 ppb	715,623 cps	1.4 %
56Fe (KED)	99.954 ppb	1,306,462 cps	1.5 %
58Ni (KED)	99.789 ppb	1,667,320 cps	0.8 %
59Co (KED)	100.023 ppb	2,722,696 cps	1.6 %
63Cu (KED)	99.859 ppb	2,087,501 cps	0.9 %
64Zn (KED)	101.096 ppb	554,561 cps	1.1 %
69Ga (KED)	100.391 ppb	678,965 cps	1.9 %
75As (KED)	100.299 ppb	155,443 cps	2.1 %
80Se (KED)	100.412 ppb	47,316 cps	2.0 %
85Rb (KED)	100.161 ppb	604,333 cps	1.3 %
88Sr (KED)	99.650 ppb	839,947 cps	1.8 %
89Y (KED)	102.766 %	457,280 cps	0.9 %
107Ag (KED)	100.483 ppb	5,444,573 cps	0.5 %
114Cd (KED)	100.148 ppb	1,979,237 cps	1.4 %
115In (KED)	101.139 %	811,693 cps	0.4 %
133Cs (KED)	99.676 ppb	2,990,158 cps	0.7 %
138Ba (KED)	100.195 ppb	4,076,990 cps	0.9 %
139La (KED)	100.571 ppb	8,962,627 cps	1.6 %
140Ce (KED)	100.239 ppb	11,790,222 cps	0.5 %
141Pr (KED)	100.170 ppb	12,131,472 cps	0.1 %
142Nd (KED)	100.405 ppb	4,877,908 cps	0.8 %
152Sm (KED)	100.474 ppb	4,292,926 cps	2.6 %
153Eu (KED)	100.329 ppb	8,608,979 cps	1.1 %
158Gd (KED)	100.408 ppb	5,847,585 cps	2.0 %
159Tb (KED)	101.790 %	4,086,964 cps	3.6 %
164Dy (KED)	100.597 ppb	6,403,683 cps	1.6 %
166Er (KED)	100.641 ppb	7,639,121 cps	2.6 %
169Tm (KED)	99.850 ppb	24,450,068 cps	1.7 %
174Yb (KED)	100.106 ppb	8,919,103 cps	1.7 %
175Lu (KED)	100.154 ppb	15,082,049 cps	1.1 %
205Tl (KED)	100.092 ppb	17,389,332 cps	1.7 %
208Pb (KED)	100.259 ppb	12,347,252 cps	2.5 %
209Bi (KED)	99.674 %	3,406,705 cps	0.3 %
232Th (KED)	100.401 ppb	25,623,410 cps	1.7 %
238U (KED)	99.949 ppb	28,119,408 cps	0.6 %

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 7

Analysis name: 507403chang jian

Analysis started at: 11/3/2021 2:49:43 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	106.778 %	1.7 %
9Be (KED)	0.087 ppb	90.8 %
11B (KED)	3.998 ppb	39.8 %
24Mg (KED)	99.614 ppb	2.4 %
27Al (KED)	146.877 ppb	1.1 %
45Sc (KED)	102.142 %	1.0 %
51V (KED)	0.272 ppb	6.1 %
52Cr (KED)	1.605 ppb	0.8 %
55Mn (KED)	5.626 ppb	3.2 %
56Fe (KED)	164.028 ppb	1.3 %
58Ni (KED)	0.924 ppb	0.3 %
59Co (KED)	0.081 ppb	8.1 %
63Cu (KED)	2.406 ppb	2.3 %
64Zn (KED)	54.306 ppb	1.6 %
69Ga (KED)	0.521 ppb	2.0 %
75As (KED)	0.135 ppb	23.4 %
80Se (KED)	-0.359 ppb	19.6 %
85Rb (KED)	0.450 ppb	3.3 %
88Sr (KED)	1.277 ppb	2.1 %
89Y (KED)	101.860 %	1.7 %
107Ag (KED)	0.076 ppb	12.4 %
114Cd (KED)	0.009 ppb	20.2 %
115In (KED)	98.748 %	0.7 %
133Cs (KED)	0.032 ppb	16.0 %
138Ba (KED)	1.609 ppb	4.1 %
139La (KED)	0.153 ppb	5.1 %
140Ce (KED)	0.333 ppb	2.4 %
141Pr (KED)	0.037 ppb	7.6 %
142Nd (KED)	0.207 ppb	9.1 %
152Sm (KED)	0.028 ppb	11.7 %
153Eu (KED)	0.007 ppb	24.5 %
158Gd (KED)	0.024 ppb	15.7 %
159Tb (KED)	103.554 %	3.4 %
164Dy (KED)	0.018 ppb	12.6 %
166Er (KED)	0.010 ppb	18.0 %
169Tm (KED)	0.003 ppb	44.7 %
174Yb (KED)	0.009 ppb	20.5 %
175Lu (KED)	-0.003 ppb	299.9 %
205Tl (KED)	0.009 ppb	12.8 %
208Pb (KED)	0.353 ppb	3.0 %
209Bi (KED)	96.004 %	2.5 %
232Th (KED)	0.184 ppb	47.3 %
238U (KED)	0.015 ppb	16.3 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	106.778 %	2,924 cps	1.7 %
9Be (KED)	0.087 ppb	13 cps	90.1 %
11B (KED)	3.998 ppb	1,955 cps	6.1 %
24Mg (KED)	99.614 ppb	56,934 cps	1.2 %
27Al (KED)	146.877 ppb	20,317 cps	0.2 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	102.142 %	51,439 cps	1.0 %
51V (KED)	0.272 ppb	2,467 cps	5.8 %
52Cr (KED)	1.605 ppb	22,849 cps	0.9 %
55Mn (KED)	5.626 ppb	39,245 cps	2.2 %
56Fe (KED)	164.028 ppb	2,083,440 cps	0.3 %
58Ni (KED)	0.924 ppb	15,339 cps	0.9 %
59Co (KED)	0.081 ppb	2,199 cps	7.1 %
63Cu (KED)	2.406 ppb	50,830 cps	0.6 %
64Zn (KED)	54.306 ppb	300,804 cps	0.6 %
69Ga (KED)	0.521 ppb	3,668 cps	0.3 %
75As (KED)	0.135 ppb	218 cps	21.4 %
80Se (KED)	-0.359 ppb	1,293 cps	0.8 %
85Rb (KED)	0.450 ppb	2,713 cps	3.0 %
88Sr (KED)	1.277 ppb	10,878 cps	1.0 %
89Y (KED)	101.860 %	453,248 cps	1.7 %
107Ag (KED)	0.076 ppb	4,062 cps	11.7 %
114Cd (KED)	0.009 ppb	220 cps	16.0 %
115In (KED)	98.748 %	792,501 cps	0.7 %
133Cs (KED)	0.032 ppb	957 cps	14.8 %
138Ba (KED)	1.609 ppb	70,251 cps	1.6 %
139La (KED)	0.153 ppb	13,956 cps	1.8 %
140Ce (KED)	0.333 ppb	41,099 cps	1.4 %
141Pr (KED)	0.037 ppb	4,565 cps	4.6 %
142Nd (KED)	0.207 ppb	10,502 cps	5.9 %
152Sm (KED)	0.028 ppb	1,202 cps	8.5 %
153Eu (KED)	0.007 ppb	662 cps	21.2 %
158Gd (KED)	0.024 ppb	1,459 cps	13.1 %
159Tb (KED)	103.554 %	4,157,763 cps	3.4 %
164Dy (KED)	0.018 ppb	1,177 cps	9.1 %
166Er (KED)	0.010 ppb	1,124 cps	9.7 %
169Tm (KED)	0.003 ppb	801 cps	41.4 %
174Yb (KED)	0.009 ppb	849 cps	16.7 %
175Lu (KED)	-0.003 ppb	15,196 cps	4.7 %
205Tl (KED)	0.009 ppb	1,596 cps	13.1 %
208Pb (KED)	0.353 ppb	51,205 cps	1.7 %
209Bi (KED)	96.004 %	3,281,283 cps	2.5 %
232Th (KED)	0.184 ppb	45,619 cps	48.6 %
238U (KED)	0.015 ppb	4,330 cps	16.3 %

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 8

Analysis name: 804025duan jian

Analysis started at: 11/3/2021 2:53:12 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	106.616 %	2.9 %
9Be (KED)	0.043 ppb	47.8 %
11B (KED)	-13.390 ppb	4.5 %
24Mg (KED)	121.144 ppb	2.2 %
27Al (KED)	229.863 ppb	1.1 %
45Sc (KED)	101.360 %	2.2 %
51V (KED)	0.414 ppb	2.5 %
52Cr (KED)	1.176 ppb	2.7 %
55Mn (KED)	7.003 ppb	2.2 %
56Fe (KED)	218.464 ppb	1.9 %
58Ni (KED)	1.351 ppb	3.3 %
59Co (KED)	0.109 ppb	3.6 %
63Cu (KED)	2.544 ppb	2.0 %
64Zn (KED)	50.574 ppb	3.1 %
69Ga (KED)	0.764 ppb	1.9 %
75As (KED)	0.155 ppb	16.0 %
80Se (KED)	-0.297 ppb	26.3 %
85Rb (KED)	0.588 ppb	2.4 %
88Sr (KED)	1.703 ppb	1.2 %
89Y (KED)	99.848 %	2.0 %
107Ag (KED)	0.119 ppb	24.2 %
114Cd (KED)	0.027 ppb	76.5 %
115In (KED)	96.905 %	1.4 %
133Cs (KED)	0.054 ppb	32.3 %
138Ba (KED)	2.446 ppb	0.8 %
139La (KED)	0.230 ppb	1.7 %
140Ce (KED)	0.447 ppb	1.3 %
141Pr (KED)	0.054 ppb	14.3 %
142Nd (KED)	0.273 ppb	2.2 %
152Sm (KED)	0.038 ppb	14.7 %
153Eu (KED)	0.010 ppb	46.7 %
158Gd (KED)	0.032 ppb	12.0 %
159Tb (KED)	100.302 %	1.8 %
164Dy (KED)	0.023 ppb	14.6 %
166Er (KED)	0.010 ppb	23.9 %
169Tm (KED)	0.003 ppb	67.6 %
174Yb (KED)	0.009 ppb	22.0 %
175Lu (KED)	-0.005 ppb	114.5 %
205Tl (KED)	0.007 ppb	22.8 %
208Pb (KED)	0.392 ppb	3.8 %
209Bi (KED)	97.344 %	0.9 %
232Th (KED)	0.076 ppb	5.1 %
238U (KED)	0.014 ppb	5.4 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	106.616 %	2,919 cps	2.9 %
9Be (KED)	0.043 ppb	7 cps	50.0 %
11B (KED)	-13.390 ppb	843 cps	6.6 %
24Mg (KED)	121.144 ppb	69,056 cps	0.8 %
27Al (KED)	229.863 ppb	31,372 cps	1.2 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	101.360 %	51,045 cps	2.2 %
51V (KED)	0.414 ppb	3,726 cps	0.4 %
52Cr (KED)	1.176 ppb	16,637 cps	1.3 %
55Mn (KED)	7.003 ppb	48,449 cps	0.4 %
56Fe (KED)	218.464 ppb	2,751,529 cps	0.3 %
58Ni (KED)	1.351 ppb	22,096 cps	1.3 %
59Co (KED)	0.109 ppb	2,907 cps	2.6 %
63Cu (KED)	2.544 ppb	52,637 cps	1.5 %
64Zn (KED)	50.574 ppb	275,349 cps	1.0 %
69Ga (KED)	0.764 ppb	5,190 cps	0.3 %
75As (KED)	0.155 ppb	244 cps	13.7 %
80Se (KED)	-0.297 ppb	1,296 cps	1.6 %
85Rb (KED)	0.588 ppb	3,470 cps	3.3 %
88Sr (KED)	1.703 ppb	14,149 cps	1.2 %
89Y (KED)	99.848 %	444,296 cps	2.0 %
107Ag (KED)	0.119 ppb	6,189 cps	22.7 %
114Cd (KED)	0.027 ppb	551 cps	69.1 %
115In (KED)	96.905 %	777,713 cps	1.4 %
133Cs (KED)	0.054 ppb	1,592 cps	30.4 %
138Ba (KED)	2.446 ppb	101,625 cps	1.2 %
139La (KED)	0.230 ppb	20,267 cps	3.1 %
140Ce (KED)	0.447 ppb	53,101 cps	2.6 %
141Pr (KED)	0.054 ppb	6,495 cps	15.5 %
142Nd (KED)	0.273 ppb	13,347 cps	1.5 %
152Sm (KED)	0.038 ppb	1,616 cps	16.0 %
153Eu (KED)	0.010 ppb	857 cps	47.7 %
158Gd (KED)	0.032 ppb	1,868 cps	13.6 %
159Tb (KED)	100.302 %	4,027,204 cps	1.8 %
164Dy (KED)	0.023 ppb	1,458 cps	16.0 %
166Er (KED)	0.010 ppb	1,081 cps	17.6 %
169Tm (KED)	0.003 ppb	768 cps	68.3 %
174Yb (KED)	0.009 ppb	817 cps	22.7 %
175Lu (KED)	-0.005 ppb	14,434 cps	4.7 %
205Tl (KED)	0.007 ppb	1,265 cps	22.5 %
208Pb (KED)	0.392 ppb	56,677 cps	2.4 %
209Bi (KED)	97.344 %	3,327,098 cps	0.9 %
232Th (KED)	0.076 ppb	19,264 cps	4.9 %
238U (KED)	0.014 ppb	3,972 cps	5.4 %

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 9

Analysis name: 80108

Analysis started at: 11/3/2021 2:56:25 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	109.660 %	2.8 %
9Be (KED)	0.035 ppb	90.4 %
11B (KED)	9.061 ppb	17.6 %
24Mg (KED)	63.269 ppb	1.7 %
27Al (KED)	74.551 ppb	0.6 %
45Sc (KED)	101.048 %	1.4 %
51V (KED)	0.145 ppb	5.7 %
52Cr (KED)	1.200 ppb	1.7 %
55Mn (KED)	1.886 ppb	2.3 %
56Fe (KED)	90.964 ppb	0.5 %
58Ni (KED)	0.557 ppb	3.3 %
59Co (KED)	0.044 ppb	6.6 %
63Cu (KED)	2.174 ppb	3.7 %
64Zn (KED)	51.380 ppb	2.5 %
69Ga (KED)	0.376 ppb	5.7 %
75As (KED)	0.155 ppb	14.3 %
80Se (KED)	-0.429 ppb	56.5 %
85Rb (KED)	1.089 ppb	0.8 %
88Sr (KED)	1.079 ppb	1.4 %
89Y (KED)	98.683 %	1.1 %
107Ag (KED)	0.018 ppb	9.1 %
114Cd (KED)	0.003 ppb	24.6 %
115In (KED)	95.781 %	2.7 %
133Cs (KED)	0.021 ppb	10.6 %
138Ba (KED)	1.133 ppb	0.6 %
139La (KED)	0.068 ppb	2.4 %
140Ce (KED)	0.154 ppb	4.1 %
141Pr (KED)	0.016 ppb	3.7 %
142Nd (KED)	0.092 ppb	6.5 %
152Sm (KED)	0.012 ppb	5.5 %
153Eu (KED)	0.002 ppb	15.5 %
158Gd (KED)	0.010 ppb	7.5 %
159Tb (KED)	100.776 %	1.7 %
164Dy (KED)	0.009 ppb	9.5 %
166Er (KED)	0.003 ppb	21.8 %
169Tm (KED)	0.001 ppb	13.7 %
174Yb (KED)	0.004 ppb	10.0 %
175Lu (KED)	-0.008 ppb	34.6 %
205Tl (KED)	0.003 ppb	9.3 %
208Pb (KED)	0.139 ppb	4.5 %
209Bi (KED)	96.628 %	0.9 %
232Th (KED)	0.028 ppb	3.8 %
238U (KED)	0.006 ppb	9.3 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	109.660 %	3,003 cps	2.8 %
9Be (KED)	0.035 ppb	6 cps	91.7 %
11B (KED)	9.061 ppb	2,337 cps	1.8 %
24Mg (KED)	63.269 ppb	37,252 cps	2.1 %
27Al (KED)	74.551 ppb	10,357 cps	0.8 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	101.048 %	50,888 cps	1.4 %
51V (KED)	0.145 ppb	1,306 cps	5.0 %
52Cr (KED)	1.200 ppb	16,930 cps	0.4 %
55Mn (KED)	1.886 ppb	13,079 cps	1.1 %
56Fe (KED)	90.964 ppb	1,145,220 cps	1.6 %
58Ni (KED)	0.557 ppb	9,271 cps	1.9 %
59Co (KED)	0.044 ppb	1,207 cps	5.0 %
63Cu (KED)	2.174 ppb	44,585 cps	3.0 %
64Zn (KED)	51.380 ppb	276,356 cps	1.6 %
69Ga (KED)	0.376 ppb	2,608 cps	4.3 %
75As (KED)	0.155 ppb	241 cps	14.5 %
80Se (KED)	-0.429 ppb	1,223 cps	9.3 %
85Rb (KED)	1.089 ppb	6,327 cps	0.4 %
88Sr (KED)	1.079 ppb	8,939 cps	0.5 %
89Y (KED)	98.683 %	439,113 cps	1.1 %
107Ag (KED)	0.018 ppb	943 cps	7.7 %
114Cd (KED)	0.003 ppb	109 cps	17.4 %
115In (KED)	95.781 %	768,692 cps	2.7 %
133Cs (KED)	0.021 ppb	620 cps	11.7 %
138Ba (KED)	1.133 ppb	49,238 cps	1.6 %
139La (KED)	0.068 ppb	6,122 cps	2.9 %
140Ce (KED)	0.154 ppb	19,175 cps	4.2 %
141Pr (KED)	0.016 ppb	1,930 cps	2.3 %
142Nd (KED)	0.092 ppb	4,672 cps	7.4 %
152Sm (KED)	0.012 ppb	497 cps	4.1 %
153Eu (KED)	0.002 ppb	221 cps	15.3 %
158Gd (KED)	0.010 ppb	598 cps	9.0 %
159Tb (KED)	100.776 %	4,046,237 cps	1.7 %
164Dy (KED)	0.009 ppb	594 cps	8.3 %
166Er (KED)	0.003 ppb	597 cps	9.4 %
169Tm (KED)	0.001 ppb	178 cps	11.5 %
174Yb (KED)	0.004 ppb	349 cps	10.7 %
175Lu (KED)	-0.008 ppb	14,072 cps	3.0 %
205Tl (KED)	0.003 ppb	627 cps	7.9 %
208Pb (KED)	0.139 ppb	26,032 cps	3.6 %
209Bi (KED)	96.628 %	3,302,621 cps	0.9 %
232Th (KED)	0.028 ppb	7,202 cps	2.8 %
238U (KED)	0.006 ppb	1,842 cps	7.6 %

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 10

Analysis name: 853003chang jian

Analysis started at: 11/3/2021 2:59:37 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	111.000 %	3.8 %
9Be (KED)	0.028 ppb	117.0 %
11B (KED)	-17.279 ppb	6.1 %
24Mg (KED)	111.012 ppb	4.7 %
27Al (KED)	205.471 ppb	1.3 %
45Sc (KED)	104.276 %	1.4 %
51V (KED)	0.379 ppb	6.6 %
52Cr (KED)	0.725 ppb	4.5 %
55Mn (KED)	6.728 ppb	0.6 %
56Fe (KED)	191.328 ppb	1.4 %
58Ni (KED)	1.159 ppb	2.3 %
59Co (KED)	0.106 ppb	6.1 %
63Cu (KED)	2.299 ppb	1.5 %
64Zn (KED)	48.364 ppb	1.0 %
69Ga (KED)	0.769 ppb	3.1 %
75As (KED)	0.174 ppb	17.4 %
80Se (KED)	-0.083 ppb	310.8 %
85Rb (KED)	0.500 ppb	4.1 %
88Sr (KED)	1.813 ppb	2.4 %
89Y (KED)	99.812 %	2.2 %
107Ag (KED)	0.010 ppb	6.0 %
114Cd (KED)	0.013 ppb	4.6 %
115In (KED)	97.124 %	0.8 %
133Cs (KED)	0.039 ppb	8.8 %
138Ba (KED)	2.383 ppb	2.8 %
139La (KED)	0.191 ppb	3.9 %
140Ce (KED)	0.379 ppb	2.6 %
141Pr (KED)	0.044 ppb	7.6 %
142Nd (KED)	0.242 ppb	2.9 %
152Sm (KED)	0.032 ppb	5.7 %
153Eu (KED)	0.006 ppb	10.0 %
158Gd (KED)	0.028 ppb	10.6 %
159Tb (KED)	102.669 %	2.1 %
164Dy (KED)	0.020 ppb	11.0 %
166Er (KED)	0.008 ppb	11.6 %
169Tm (KED)	0.001 ppb	5.9 %
174Yb (KED)	0.008 ppb	4.5 %
175Lu (KED)	-0.007 ppb	80.9 %
205Tl (KED)	0.006 ppb	2.8 %
208Pb (KED)	0.348 ppb	4.3 %
209Bi (KED)	96.687 %	1.4 %
232Th (KED)	0.059 ppb	2.0 %
238U (KED)	0.012 ppb	2.7 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	111.000 %	3,039 cps	3.8 %
9Be (KED)	0.028 ppb	4 cps	114.6 %
11B (KED)	-17.279 ppb	618 cps	7.8 %
24Mg (KED)	111.012 ppb	65,863 cps	1.7 %
27Al (KED)	205.471 ppb	28,885 cps	0.2 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	104.276 %	52,514 cps	1.4 %
51V (KED)	0.379 ppb	3,513 cps	5.6 %
52Cr (KED)	0.725 ppb	10,593 cps	4.1 %
55Mn (KED)	6.728 ppb	47,902 cps	1.5 %
56Fe (KED)	191.328 ppb	2,480,213 cps	1.4 %
58Ni (KED)	1.159 ppb	19,563 cps	0.9 %
59Co (KED)	0.106 ppb	2,906 cps	6.1 %
63Cu (KED)	2.299 ppb	47,651 cps	2.7 %
64Zn (KED)	48.364 ppb	263,802 cps	1.3 %
69Ga (KED)	0.769 ppb	5,222 cps	4.3 %
75As (KED)	0.174 ppb	272 cps	14.3 %
80Se (KED)	-0.083 ppb	1,389 cps	6.9 %
85Rb (KED)	0.500 ppb	2,949 cps	2.2 %
88Sr (KED)	1.813 ppb	15,042 cps	0.5 %
89Y (KED)	99.812 %	444,135 cps	2.2 %
107Ag (KED)	0.010 ppb	574 cps	4.9 %
114Cd (KED)	0.013 ppb	283 cps	4.7 %
115In (KED)	97.124 %	779,468 cps	0.8 %
133Cs (KED)	0.039 ppb	1,154 cps	8.6 %
138Ba (KED)	2.383 ppb	101,427 cps	1.3 %
139La (KED)	0.191 ppb	17,259 cps	2.2 %
140Ce (KED)	0.379 ppb	46,275 cps	1.0 %
141Pr (KED)	0.044 ppb	5,462 cps	5.6 %
142Nd (KED)	0.242 ppb	12,145 cps	1.0 %
152Sm (KED)	0.032 ppb	1,378 cps	5.3 %
153Eu (KED)	0.006 ppb	556 cps	11.9 %
158Gd (KED)	0.028 ppb	1,679 cps	8.7 %
159Tb (KED)	102.669 %	4,122,243 cps	2.1 %
164Dy (KED)	0.020 ppb	1,341 cps	8.8 %
166Er (KED)	0.008 ppb	1,004 cps	6.1 %
169Tm (KED)	0.001 ppb	359 cps	7.2 %
174Yb (KED)	0.008 ppb	783 cps	3.3 %
175Lu (KED)	-0.007 ppb	14,431 cps	4.5 %
205Tl (KED)	0.006 ppb	1,010 cps	4.0 %
208Pb (KED)	0.348 ppb	51,013 cps	2.7 %
209Bi (KED)	96.687 %	3,304,616 cps	1.4 %
232Th (KED)	0.059 ppb	14,913 cps	0.9 %
238U (KED)	0.012 ppb	3,555 cps	1.7 %

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 11

Analysis name: 501281duan jian

Analysis started at: 11/3/2021 3:02:47 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	108.321 %	1.2 %
9Be (KED)	0.029 ppb	86.6 %
11B (KED)	24.277 ppb	22.2 %
24Mg (KED)	58.100 ppb	2.7 %
27Al (KED)	91.339 ppb	0.4 %
45Sc (KED)	101.110 %	1.1 %
51V (KED)	0.160 ppb	5.9 %
52Cr (KED)	0.644 ppb	1.9 %
55Mn (KED)	3.474 ppb	1.0 %
56Fe (KED)	95.894 ppb	1.0 %
58Ni (KED)	0.550 ppb	3.7 %
59Co (KED)	0.052 ppb	5.3 %
63Cu (KED)	1.863 ppb	1.4 %
64Zn (KED)	49.490 ppb	0.5 %
69Ga (KED)	0.346 ppb	1.6 %
75As (KED)	0.170 ppb	7.4 %
80Se (KED)	-0.298 ppb	70.0 %
85Rb (KED)	0.200 ppb	3.5 %
88Sr (KED)	0.832 ppb	3.8 %
89Y (KED)	97.222 %	0.5 %
107Ag (KED)	0.036 ppb	7.3 %
114Cd (KED)	0.007 ppb	19.3 %
115In (KED)	96.070 %	0.6 %
133Cs (KED)	0.017 ppb	12.6 %
138Ba (KED)	1.102 ppb	1.8 %
139La (KED)	0.084 ppb	1.0 %
140Ce (KED)	0.188 ppb	4.4 %
141Pr (KED)	0.019 ppb	5.6 %
142Nd (KED)	0.108 ppb	1.9 %
152Sm (KED)	0.014 ppb	3.7 %
153Eu (KED)	0.003 ppb	2.8 %
158Gd (KED)	0.012 ppb	3.6 %
159Tb (KED)	96.708 %	1.0 %
164Dy (KED)	0.009 ppb	14.1 %
166Er (KED)	0.003 ppb	12.8 %
169Tm (KED)	0.001 ppb	10.6 %
174Yb (KED)	0.003 ppb	14.2 %
175Lu (KED)	-0.008 ppb	53.6 %
205Tl (KED)	0.003 ppb	2.0 %
208Pb (KED)	0.244 ppb	0.8 %
209Bi (KED)	95.133 %	0.3 %
232Th (KED)	0.029 ppb	3.8 %
238U (KED)	0.007 ppb	1.8 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	108.321 %	2,966 cps	1.2 %
9Be (KED)	0.029 ppb	4 cps	86.6 %
11B (KED)	24.277 ppb	3,293 cps	9.4 %
24Mg (KED)	58.100 ppb	33,817 cps	1.7 %
27Al (KED)	91.339 ppb	12,626 cps	1.3 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	101.110 %	50,919 cps	1.1 %
51V (KED)	0.160 ppb	1,441 cps	5.0 %
52Cr (KED)	0.644 ppb	9,139 cps	2.1 %
55Mn (KED)	3.474 ppb	24,029 cps	0.5 %
56Fe (KED)	95.894 ppb	1,207,809 cps	1.8 %
58Ni (KED)	0.550 ppb	9,170 cps	3.2 %
59Co (KED)	0.052 ppb	1,393 cps	4.6 %
63Cu (KED)	1.863 ppb	37,783 cps	0.9 %
64Zn (KED)	49.490 ppb	262,707 cps	0.6 %
69Ga (KED)	0.346 ppb	2,379 cps	1.9 %
75As (KED)	0.170 ppb	260 cps	6.8 %
80Se (KED)	-0.298 ppb	1,261 cps	6.7 %
85Rb (KED)	0.200 ppb	1,162 cps	3.0 %
88Sr (KED)	0.832 ppb	6,840 cps	3.7 %
89Y (KED)	97.222 %	432,610 cps	0.5 %
107Ag (KED)	0.036 ppb	1,906 cps	7.7 %
114Cd (KED)	0.007 ppb	179 cps	14.0 %
115In (KED)	96.070 %	771,008 cps	0.6 %
133Cs (KED)	0.017 ppb	506 cps	11.1 %
138Ba (KED)	1.102 ppb	46,045 cps	0.7 %
139La (KED)	0.084 ppb	7,237 cps	0.1 %
140Ce (KED)	0.188 ppb	22,261 cps	3.4 %
141Pr (KED)	0.019 ppb	2,284 cps	4.6 %
142Nd (KED)	0.108 ppb	5,229 cps	2.7 %
152Sm (KED)	0.014 ppb	568 cps	4.6 %
153Eu (KED)	0.003 ppb	284 cps	1.8 %
158Gd (KED)	0.012 ppb	668 cps	4.3 %
159Tb (KED)	96.708 %	3,882,893 cps	1.0 %
164Dy (KED)	0.009 ppb	582 cps	13.2 %
166Er (KED)	0.003 ppb	536 cps	3.6 %
169Tm (KED)	0.001 ppb	152 cps	9.1 %
174Yb (KED)	0.003 ppb	313 cps	12.1 %
175Lu (KED)	-0.008 ppb	13,512 cps	3.3 %
205Tl (KED)	0.003 ppb	581 cps	1.8 %
208Pb (KED)	0.244 ppb	38,027 cps	0.5 %
209Bi (KED)	95.133 %	3,251,512 cps	0.3 %
232Th (KED)	0.029 ppb	7,342 cps	3.4 %
238U (KED)	0.007 ppb	2,112 cps	1.7 %

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 12

Analysis name: 714061duan jian

Analysis started at: 11/3/2021 3:05:58 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	108.077 %	5.7 %
9Be (KED)	0.000 ppb	
11B (KED)	14.756 ppb	10.2 %
24Mg (KED)	55.368 ppb	6.9 %
27Al (KED)	86.571 ppb	2.2 %
45Sc (KED)	103.635 %	0.3 %
51V (KED)	0.164 ppb	1.1 %
52Cr (KED)	0.513 ppb	3.5 %
55Mn (KED)	3.173 ppb	1.2 %
56Fe (KED)	87.546 ppb	0.5 %
58Ni (KED)	0.563 ppb	0.5 %
59Co (KED)	0.051 ppb	0.6 %
63Cu (KED)	2.061 ppb	2.2 %
64Zn (KED)	51.037 ppb	2.1 %
69Ga (KED)	0.318 ppb	6.7 %
75As (KED)	0.109 ppb	18.5 %
80Se (KED)	-0.270 ppb	41.3 %
85Rb (KED)	0.251 ppb	1.5 %
88Sr (KED)	0.797 ppb	2.5 %
89Y (KED)	98.185 %	0.9 %
107Ag (KED)	0.019 ppb	12.6 %
114Cd (KED)	0.008 ppb	15.1 %
115In (KED)	94.425 %	1.8 %
133Cs (KED)	0.018 ppb	6.0 %
138Ba (KED)	0.976 ppb	3.2 %
139La (KED)	0.084 ppb	1.3 %
140Ce (KED)	0.186 ppb	7.6 %
141Pr (KED)	0.019 ppb	2.0 %
142Nd (KED)	0.104 ppb	5.2 %
152Sm (KED)	0.013 ppb	7.9 %
153Eu (KED)	0.003 ppb	12.7 %
158Gd (KED)	0.012 ppb	10.5 %
159Tb (KED)	98.829 %	1.4 %
164Dy (KED)	0.009 ppb	7.4 %
166Er (KED)	0.003 ppb	27.9 %
169Tm (KED)	0.001 ppb	10.0 %
174Yb (KED)	0.003 ppb	11.7 %
175Lu (KED)	-0.008 ppb	23.0 %
205Tl (KED)	0.003 ppb	1.8 %
208Pb (KED)	0.185 ppb	3.3 %
209Bi (KED)	95.143 %	1.3 %
232Th (KED)	0.028 ppb	15.9 %
238U (KED)	0.011 ppb	68.7 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	108.077 %	2,959 cps	5.7 %
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	14.756 ppb	2,669 cps	2.2 %
24Mg (KED)	55.368 ppb	32,090 cps	1.0 %
27Al (KED)	86.571 ppb	12,283 cps	2.0 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	103.635 %	52,191 cps	0.3 %
51V (KED)	0.164 ppb	1,513 cps	0.8 %
52Cr (KED)	0.513 ppb	7,493 cps	3.6 %
55Mn (KED)	3.173 ppb	22,503 cps	1.2 %
56Fe (KED)	87.546 ppb	1,130,582 cps	0.7 %
58Ni (KED)	0.563 ppb	9,615 cps	0.2 %
59Co (KED)	0.051 ppb	1,425 cps	0.9 %
63Cu (KED)	2.061 ppb	42,108 cps	1.4 %
64Zn (KED)	51.037 ppb	273,212 cps	1.2 %
69Ga (KED)	0.318 ppb	2,225 cps	7.1 %
75As (KED)	0.109 ppb	172 cps	17.6 %
80Se (KED)	-0.270 ppb	1,286 cps	3.1 %
85Rb (KED)	0.251 ppb	1,466 cps	2.0 %
88Sr (KED)	0.797 ppb	6,622 cps	3.2 %
89Y (KED)	98.185 %	436,898 cps	0.9 %
107Ag (KED)	0.019 ppb	1,017 cps	11.8 %
114Cd (KED)	0.008 ppb	182 cps	10.6 %
115In (KED)	94.425 %	757,810 cps	1.8 %
133Cs (KED)	0.018 ppb	542 cps	6.6 %
138Ba (KED)	0.976 ppb	42,074 cps	1.5 %
139La (KED)	0.084 ppb	7,324 cps	0.8 %
140Ce (KED)	0.186 ppb	22,429 cps	7.7 %
141Pr (KED)	0.019 ppb	2,267 cps	1.7 %
142Nd (KED)	0.104 ppb	5,160 cps	3.7 %
152Sm (KED)	0.013 ppb	546 cps	8.3 %
153Eu (KED)	0.003 ppb	264 cps	11.4 %
158Gd (KED)	0.012 ppb	694 cps	9.7 %
159Tb (KED)	98.829 %	3,968,058 cps	1.4 %
164Dy (KED)	0.009 ppb	562 cps	6.0 %
166Er (KED)	0.003 ppb	570 cps	9.4 %
169Tm (KED)	0.001 ppb	171 cps	10.7 %
174Yb (KED)	0.003 ppb	310 cps	12.0 %
175Lu (KED)	-0.008 ppb	13,700 cps	1.8 %
205Tl (KED)	0.003 ppb	589 cps	2.6 %
208Pb (KED)	0.185 ppb	31,001 cps	1.2 %
209Bi (KED)	95.143 %	3,251,860 cps	1.3 %
232Th (KED)	0.028 ppb	7,075 cps	15.8 %
238U (KED)	0.011 ppb	3,036 cps	65.2 %

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 13

Analysis name: 803270chang jian

Analysis started at: 11/3/2021 3:09:11 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	106.657 %	2.5 %
9Be (KED)	0.044 ppb	52.0 %
11B (KED)	-7.147 ppb	4.4 %
24Mg (KED)	94.151 ppb	2.2 %
27Al (KED)	178.673 ppb	0.9 %
45Sc (KED)	103.711 %	2.3 %
51V (KED)	0.335 ppb	4.8 %
52Cr (KED)	0.829 ppb	3.0 %
55Mn (KED)	5.241 ppb	1.1 %
56Fe (KED)	182.412 ppb	2.0 %
58Ni (KED)	1.123 ppb	2.7 %
59Co (KED)	0.090 ppb	4.1 %
63Cu (KED)	2.529 ppb	2.4 %
64Zn (KED)	54.123 ppb	0.6 %
69Ga (KED)	0.587 ppb	3.4 %
75As (KED)	0.156 ppb	17.3 %
80Se (KED)	-0.248 ppb	36.2 %
85Rb (KED)	0.377 ppb	2.5 %
88Sr (KED)	1.290 ppb	2.7 %
89Y (KED)	98.996 %	1.4 %
107Ag (KED)	0.077 ppb	4.4 %
114Cd (KED)	0.007 ppb	11.4 %
115In (KED)	97.403 %	1.4 %
133Cs (KED)	0.033 ppb	9.5 %
138Ba (KED)	1.896 ppb	0.8 %
139La (KED)	0.177 ppb	4.1 %
140Ce (KED)	0.358 ppb	1.4 %
141Pr (KED)	0.041 ppb	4.3 %
142Nd (KED)	0.218 ppb	2.0 %
152Sm (KED)	0.032 ppb	4.4 %
153Eu (KED)	0.006 ppb	6.1 %
158Gd (KED)	0.028 ppb	4.6 %
159Tb (KED)	98.908 %	1.3 %
164Dy (KED)	0.018 ppb	4.0 %
166Er (KED)	0.007 ppb	4.9 %
169Tm (KED)	0.001 ppb	14.8 %
174Yb (KED)	0.007 ppb	8.0 %
175Lu (KED)	-0.009 ppb	26.7 %
205Tl (KED)	0.004 ppb	9.0 %
208Pb (KED)	0.300 ppb	3.7 %
209Bi (KED)	94.895 %	2.5 %
232Th (KED)	0.051 ppb	4.9 %
238U (KED)	0.012 ppb	5.8 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	106.657 %	2,920 cps	2.5 %
9Be (KED)	0.044 ppb	7 cps	50.0 %
11B (KED)	-7.147 ppb	1,241 cps	2.5 %
24Mg (KED)	94.151 ppb	53,769 cps	2.2 %
27Al (KED)	178.673 ppb	25,026 cps	2.4 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	103.711 %	52,229 cps	2.3 %
51V (KED)	0.335 ppb	3,084 cps	3.0 %
52Cr (KED)	0.829 ppb	12,037 cps	1.7 %
55Mn (KED)	5.241 ppb	37,132 cps	1.3 %
56Fe (KED)	182.412 ppb	2,351,491 cps	0.4 %
58Ni (KED)	1.123 ppb	18,851 cps	0.7 %
59Co (KED)	0.090 ppb	2,465 cps	1.8 %
63Cu (KED)	2.529 ppb	51,883 cps	1.9 %
64Zn (KED)	54.123 ppb	291,462 cps	2.0 %
69Ga (KED)	0.587 ppb	3,994 cps	2.1 %
75As (KED)	0.156 ppb	243 cps	15.4 %
80Se (KED)	-0.248 ppb	1,307 cps	4.0 %
85Rb (KED)	0.377 ppb	2,214 cps	2.6 %
88Sr (KED)	1.290 ppb	10,680 cps	2.0 %
89Y (KED)	98.996 %	440,506 cps	1.4 %
107Ag (KED)	0.077 ppb	4,077 cps	2.9 %
114Cd (KED)	0.007 ppb	184 cps	10.0 %
115In (KED)	97.403 %	781,714 cps	1.4 %
133Cs (KED)	0.033 ppb	981 cps	8.0 %
138Ba (KED)	1.896 ppb	78,476 cps	0.6 %
139La (KED)	0.177 ppb	15,408 cps	3.6 %
140Ce (KED)	0.358 ppb	42,178 cps	1.4 %
141Pr (KED)	0.041 ppb	4,912 cps	3.0 %
142Nd (KED)	0.218 ppb	10,558 cps	2.4 %
152Sm (KED)	0.032 ppb	1,319 cps	4.6 %
153Eu (KED)	0.006 ppb	494 cps	7.0 %
158Gd (KED)	0.028 ppb	1,590 cps	3.8 %
159Tb (KED)	98.908 %	3,971,217 cps	1.3 %
164Dy (KED)	0.018 ppb	1,126 cps	2.7 %
166Er (KED)	0.007 ppb	879 cps	3.2 %
169Tm (KED)	0.001 ppb	331 cps	13.1 %
174Yb (KED)	0.007 ppb	677 cps	8.5 %
175Lu (KED)	-0.009 ppb	13,639 cps	1.3 %
205Tl (KED)	0.004 ppb	729 cps	6.0 %
208Pb (KED)	0.300 ppb	44,448 cps	2.7 %
209Bi (KED)	94.895 %	3,243,378 cps	2.5 %
232Th (KED)	0.051 ppb	12,642 cps	3.3 %
238U (KED)	0.012 ppb	3,267 cps	3.9 %

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 14

Analysis name: 80073

Analysis started at: 11/3/2021 3:12:23 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	103.328 %	2.2 %
9Be (KED)	0.038 ppb	36.1 %
11B (KED)	3.568 ppb	34.9 %
24Mg (KED)	104.965 ppb	1.0 %
27Al (KED)	155.684 ppb	1.6 %
45Sc (KED)	101.828 %	1.2 %
51V (KED)	0.286 ppb	5.7 %
52Cr (KED)	0.919 ppb	0.8 %
55Mn (KED)	4.935 ppb	2.5 %
56Fe (KED)	146.685 ppb	1.5 %
58Ni (KED)	0.789 ppb	2.1 %
59Co (KED)	0.074 ppb	3.9 %
63Cu (KED)	2.553 ppb	1.4 %
64Zn (KED)	53.565 ppb	1.1 %
69Ga (KED)	0.543 ppb	4.8 %
75As (KED)	0.114 ppb	5.7 %
80Se (KED)	-0.179 ppb	24.8 %
85Rb (KED)	0.873 ppb	4.8 %
88Sr (KED)	1.109 ppb	0.7 %
89Y (KED)	98.583 %	1.3 %
107Ag (KED)	0.052 ppb	7.8 %
114Cd (KED)	0.011 ppb	4.8 %
115In (KED)	94.469 %	2.1 %
133Cs (KED)	0.027 ppb	7.5 %
138Ba (KED)	1.738 ppb	2.9 %
139La (KED)	0.141 ppb	2.2 %
140Ce (KED)	0.295 ppb	1.2 %
141Pr (KED)	0.034 ppb	2.7 %
142Nd (KED)	0.174 ppb	0.2 %
152Sm (KED)	0.024 ppb	8.8 %
153Eu (KED)	0.004 ppb	6.8 %
158Gd (KED)	0.021 ppb	8.9 %
159Tb (KED)	97.951 %	0.9 %
164Dy (KED)	0.013 ppb	8.5 %
166Er (KED)	0.005 ppb	19.2 %
169Tm (KED)	0.001 ppb	13.2 %
174Yb (KED)	0.005 ppb	5.1 %
175Lu (KED)	-0.010 ppb	20.0 %
205Tl (KED)	0.004 ppb	11.0 %
208Pb (KED)	0.225 ppb	3.9 %
209Bi (KED)	93.149 %	1.2 %
232Th (KED)	0.040 ppb	1.9 %
238U (KED)	0.008 ppb	4.2 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	103.328 %	2,829 cps	2.2 %
9Be (KED)	0.038 ppb	6 cps	34.6 %
11B (KED)	3.568 ppb	1,865 cps	4.9 %
24Mg (KED)	104.965 ppb	58,046 cps	1.7 %
27Al (KED)	155.684 ppb	21,448 cps	0.5 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	101.828 %	51,281 cps	1.2 %
51V (KED)	0.286 ppb	2,590 cps	5.6 %
52Cr (KED)	0.919 ppb	13,095 cps	0.5 %
55Mn (KED)	4.935 ppb	34,334 cps	1.7 %
56Fe (KED)	146.685 ppb	1,857,870 cps	0.3 %
58Ni (KED)	0.789 ppb	13,107 cps	1.6 %
59Co (KED)	0.074 ppb	1,998 cps	4.7 %
63Cu (KED)	2.553 ppb	52,148 cps	0.7 %
64Zn (KED)	53.565 ppb	287,337 cps	0.6 %
69Ga (KED)	0.543 ppb	3,694 cps	5.5 %
75As (KED)	0.114 ppb	180 cps	4.9 %
80Se (KED)	-0.179 ppb	1,331 cps	1.2 %
85Rb (KED)	0.873 ppb	5,073 cps	3.6 %
88Sr (KED)	1.109 ppb	9,175 cps	0.9 %
89Y (KED)	98.583 %	438,667 cps	1.3 %
107Ag (KED)	0.052 ppb	2,689 cps	6.7 %
114Cd (KED)	0.011 ppb	244 cps	5.7 %
115In (KED)	94.469 %	758,161 cps	2.1 %
133Cs (KED)	0.027 ppb	791 cps	5.4 %
138Ba (KED)	1.738 ppb	71,513 cps	2.0 %
139La (KED)	0.141 ppb	12,177 cps	1.4 %
140Ce (KED)	0.295 ppb	34,606 cps	1.1 %
141Pr (KED)	0.034 ppb	3,958 cps	3.2 %
142Nd (KED)	0.174 ppb	8,390 cps	0.9 %
152Sm (KED)	0.024 ppb	999 cps	8.0 %
153Eu (KED)	0.004 ppb	379 cps	5.9 %
158Gd (KED)	0.021 ppb	1,172 cps	9.7 %
159Tb (KED)	97.951 %	3,932,805 cps	0.9 %
164Dy (KED)	0.013 ppb	840 cps	7.3 %
166Er (KED)	0.005 ppb	698 cps	10.1 %
169Tm (KED)	0.001 ppb	226 cps	12.3 %
174Yb (KED)	0.005 ppb	489 cps	5.2 %
175Lu (KED)	-0.010 ppb	13,269 cps	1.6 %
205Tl (KED)	0.004 ppb	756 cps	9.4 %
208Pb (KED)	0.225 ppb	34,979 cps	1.9 %
209Bi (KED)	93.149 %	3,183,710 cps	1.2 %
232Th (KED)	0.040 ppb	9,730 cps	0.8 %
238U (KED)	0.008 ppb	2,258 cps	3.3 %

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 15

Analysis name: 805324chang jian

Analysis started at: 11/3/2021 3:15:31 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	107.347 %	2.0 %
9Be (KED)	0.000 ppb	
11B (KED)	-19.663 ppb	3.8 %
24Mg (KED)	141.120 ppb	1.5 %
27Al (KED)	200.274 ppb	2.2 %
45Sc (KED)	100.645 %	0.8 %
51V (KED)	0.408 ppb	3.3 %
52Cr (KED)	1.370 ppb	1.6 %
55Mn (KED)	5.838 ppb	1.2 %
56Fe (KED)	246.404 ppb	0.7 %
58Ni (KED)	1.245 ppb	1.2 %
59Co (KED)	0.108 ppb	1.4 %
63Cu (KED)	2.572 ppb	2.4 %
64Zn (KED)	62.189 ppb	0.8 %
69Ga (KED)	0.618 ppb	5.1 %
75As (KED)	0.170 ppb	17.6 %
80Se (KED)	-0.370 ppb	17.3 %
85Rb (KED)	0.784 ppb	1.7 %
88Sr (KED)	1.416 ppb	2.7 %
89Y (KED)	95.565 %	1.2 %
107Ag (KED)	0.016 ppb	5.3 %
114Cd (KED)	0.008 ppb	9.9 %
115In (KED)	91.909 %	1.3 %
133Cs (KED)	0.044 ppb	6.2 %
138Ba (KED)	1.896 ppb	0.4 %
139La (KED)	0.196 ppb	1.1 %
140Ce (KED)	0.418 ppb	2.0 %
141Pr (KED)	0.047 ppb	3.6 %
142Nd (KED)	0.251 ppb	2.1 %
152Sm (KED)	0.035 ppb	3.3 %
153Eu (KED)	0.007 ppb	8.4 %
158Gd (KED)	0.029 ppb	0.6 %
159Tb (KED)	96.620 %	1.5 %
164Dy (KED)	0.019 ppb	8.3 %
166Er (KED)	0.008 ppb	3.8 %
169Tm (KED)	0.001 ppb	4.6 %
174Yb (KED)	0.007 ppb	10.1 %
175Lu (KED)	-0.010 ppb	28.8 %
205Tl (KED)	0.005 ppb	7.3 %
208Pb (KED)	0.290 ppb	4.9 %
209Bi (KED)	92.439 %	2.1 %
232Th (KED)	0.061 ppb	2.9 %
238U (KED)	0.012 ppb	3.6 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	107.347 %	2,939 cps	2.0 %
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	-19.663 ppb	446 cps	8.7 %
24Mg (KED)	141.120 ppb	80,963 cps	0.6 %
27Al (KED)	200.274 ppb	27,182 cps	1.5 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	100.645 %	50,685 cps	0.8 %
51V (KED)	0.408 ppb	3,645 cps	2.7 %
52Cr (KED)	1.370 ppb	19,231 cps	2.0 %
55Mn (KED)	5.838 ppb	40,130 cps	0.8 %
56Fe (KED)	246.404 ppb	3,081,935 cps	1.5 %
58Ni (KED)	1.245 ppb	20,261 cps	1.8 %
59Co (KED)	0.108 ppb	2,871 cps	0.6 %
63Cu (KED)	2.572 ppb	50,906 cps	1.3 %
64Zn (KED)	62.189 ppb	321,587 cps	1.4 %
69Ga (KED)	0.618 ppb	4,047 cps	4.5 %
75As (KED)	0.170 ppb	256 cps	17.7 %
80Se (KED)	-0.370 ppb	1,209 cps	1.4 %
85Rb (KED)	0.784 ppb	4,416 cps	2.6 %
88Sr (KED)	1.416 ppb	11,294 cps	1.5 %
89Y (KED)	95.565 %	425,239 cps	1.2 %
107Ag (KED)	0.016 ppb	841 cps	4.0 %
114Cd (KED)	0.008 ppb	184 cps	6.8 %
115In (KED)	91.909 %	737,619 cps	1.3 %
133Cs (KED)	0.044 ppb	1,226 cps	6.6 %
138Ba (KED)	1.896 ppb	76,667 cps	1.5 %
139La (KED)	0.196 ppb	16,708 cps	0.6 %
140Ce (KED)	0.418 ppb	47,866 cps	1.0 %
141Pr (KED)	0.047 ppb	5,473 cps	5.0 %
142Nd (KED)	0.251 ppb	11,817 cps	2.4 %
152Sm (KED)	0.035 ppb	1,415 cps	4.7 %
153Eu (KED)	0.007 ppb	578 cps	7.1 %
158Gd (KED)	0.029 ppb	1,606 cps	2.0 %
159Tb (KED)	96.620 %	3,879,362 cps	1.5 %
164Dy (KED)	0.019 ppb	1,193 cps	6.9 %
166Er (KED)	0.008 ppb	891 cps	1.3 %
169Tm (KED)	0.001 ppb	283 cps	3.5 %
174Yb (KED)	0.007 ppb	660 cps	9.7 %
175Lu (KED)	-0.010 ppb	13,191 cps	2.7 %
205Tl (KED)	0.005 ppb	794 cps	5.1 %
208Pb (KED)	0.290 ppb	42,093 cps	3.5 %
209Bi (KED)	92.439 %	3,159,421 cps	2.1 %
232Th (KED)	0.061 ppb	14,653 cps	0.9 %
238U (KED)	0.012 ppb	3,232 cps	4.7 %

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 16

Analysis name: 706081chang jian

Analysis started at: 11/3/2021 3:18:44 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	106.819 %	2.6 %
9Be (KED)	0.021 ppb	173.2 %
11B (KED)	4.987 ppb	21.5 %
24Mg (KED)	85.211 ppb	3.2 %
27Al (KED)	112.083 ppb	0.2 %
45Sc (KED)	104.446 %	2.0 %
51V (KED)	0.198 ppb	2.6 %
52Cr (KED)	0.849 ppb	1.9 %
55Mn (KED)	3.850 ppb	1.7 %
56Fe (KED)	114.329 ppb	2.4 %
58Ni (KED)	1.111 ppb	2.7 %
59Co (KED)	0.056 ppb	7.9 %
63Cu (KED)	2.746 ppb	0.8 %
64Zn (KED)	47.821 ppb	1.4 %
69Ga (KED)	0.439 ppb	0.5 %
75As (KED)	0.102 ppb	11.1 %
80Se (KED)	-0.076 ppb	157.8 %
85Rb (KED)	0.644 ppb	2.5 %
88Sr (KED)	0.961 ppb	4.2 %
89Y (KED)	97.986 %	0.2 %
107Ag (KED)	0.015 ppb	1.8 %
114Cd (KED)	0.006 ppb	19.5 %
115In (KED)	95.414 %	1.6 %
133Cs (KED)	0.022 ppb	3.1 %
138Ba (KED)	1.294 ppb	5.0 %
139La (KED)	0.104 ppb	6.5 %
140Ce (KED)	0.230 ppb	4.6 %
141Pr (KED)	0.024 ppb	4.2 %
142Nd (KED)	0.138 ppb	2.9 %
152Sm (KED)	0.018 ppb	9.6 %
153Eu (KED)	0.003 ppb	11.5 %
158Gd (KED)	0.015 ppb	8.7 %
159Tb (KED)	98.801 %	4.2 %
164Dy (KED)	0.010 ppb	1.6 %
166Er (KED)	0.004 ppb	8.3 %
169Tm (KED)	0.001 ppb	20.8 %
174Yb (KED)	0.004 ppb	17.5 %
175Lu (KED)	-0.008 ppb	67.6 %
205Tl (KED)	0.004 ppb	8.8 %
208Pb (KED)	0.221 ppb	1.2 %
209Bi (KED)	93.034 %	1.2 %
232Th (KED)	0.032 ppb	2.1 %
238U (KED)	0.009 ppb	7.0 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	106.819 %	2,925 cps	2.6 %
9Be (KED)	0.021 ppb	3 cps	173.2 %
11B (KED)	4.987 ppb	2,017 cps	0.8 %
24Mg (KED)	85.211 ppb	48,752 cps	1.4 %
27Al (KED)	112.083 ppb	15,931 cps	1.9 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	104.446 %	52,600 cps	2.0 %
51V (KED)	0.198 ppb	1,840 cps	3.8 %
52Cr (KED)	0.849 ppb	12,414 cps	2.0 %
55Mn (KED)	3.850 ppb	27,491 cps	1.0 %
56Fe (KED)	114.329 ppb	1,486,079 cps	0.5 %
58Ni (KED)	1.111 ppb	18,789 cps	0.8 %
59Co (KED)	0.056 ppb	1,565 cps	5.7 %
63Cu (KED)	2.746 ppb	55,675 cps	0.9 %
64Zn (KED)	47.821 ppb	256,234 cps	1.1 %
69Ga (KED)	0.439 ppb	3,000 cps	0.2 %
75As (KED)	0.102 ppb	161 cps	10.4 %
80Se (KED)	-0.076 ppb	1,368 cps	3.7 %
85Rb (KED)	0.644 ppb	3,727 cps	2.3 %
88Sr (KED)	0.961 ppb	7,930 cps	4.2 %
89Y (KED)	97.986 %	436,013 cps	0.2 %
107Ag (KED)	0.015 ppb	806 cps	3.0 %
114Cd (KED)	0.006 ppb	161 cps	12.6 %
115In (KED)	95.414 %	765,744 cps	1.6 %
133Cs (KED)	0.022 ppb	650 cps	4.5 %
138Ba (KED)	1.294 ppb	54,577 cps	2.4 %
139La (KED)	0.104 ppb	9,047 cps	4.7 %
140Ce (KED)	0.230 ppb	27,444 cps	0.6 %
141Pr (KED)	0.024 ppb	2,907 cps	1.1 %
142Nd (KED)	0.138 ppb	6,759 cps	1.5 %
152Sm (KED)	0.018 ppb	769 cps	5.6 %
153Eu (KED)	0.003 ppb	262 cps	8.9 %
158Gd (KED)	0.015 ppb	852 cps	11.3 %
159Tb (KED)	98.801 %	3,966,921 cps	4.2 %
164Dy (KED)	0.010 ppb	652 cps	5.4 %
166Er (KED)	0.004 ppb	647 cps	3.7 %
169Tm (KED)	0.001 ppb	167 cps	23.1 %
174Yb (KED)	0.004 ppb	380 cps	12.4 %
175Lu (KED)	-0.008 ppb	13,778 cps	1.6 %
205Tl (KED)	0.004 ppb	700 cps	7.8 %
208Pb (KED)	0.221 ppb	34,468 cps	1.3 %
209Bi (KED)	93.034 %	3,179,774 cps	1.2 %
232Th (KED)	0.032 ppb	7,871 cps	0.8 %
238U (KED)	0.009 ppb	2,406 cps	7.6 %

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 17

Analysis name: 500157duan jian

Analysis started at: 11/3/2021 3:21:57 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	107.062 %	2.8 %
9Be (KED)	0.000 ppb	
11B (KED)	-4.802 ppb	41.6 %
24Mg (KED)	78.040 ppb	4.4 %
27Al (KED)	143.507 ppb	2.2 %
45Sc (KED)	104.735 %	2.0 %
51V (KED)	0.272 ppb	7.8 %
52Cr (KED)	0.645 ppb	1.9 %
55Mn (KED)	5.659 ppb	1.5 %
56Fe (KED)	128.060 ppb	1.0 %
58Ni (KED)	0.821 ppb	0.5 %
59Co (KED)	0.086 ppb	5.4 %
63Cu (KED)	2.913 ppb	2.1 %
64Zn (KED)	45.688 ppb	1.9 %
69Ga (KED)	0.493 ppb	3.2 %
75As (KED)	0.105 ppb	6.3 %
80Se (KED)	-0.084 ppb	102.5 %
85Rb (KED)	0.316 ppb	5.1 %
88Sr (KED)	1.041 ppb	2.9 %
89Y (KED)	98.723 %	1.0 %
107Ag (KED)	0.026 ppb	3.8 %
114Cd (KED)	0.015 ppb	8.1 %
115In (KED)	95.716 %	1.3 %
133Cs (KED)	0.026 ppb	8.0 %
138Ba (KED)	1.514 ppb	2.0 %
139La (KED)	0.128 ppb	1.1 %
140Ce (KED)	0.272 ppb	3.5 %
141Pr (KED)	0.030 ppb	4.6 %
142Nd (KED)	0.165 ppb	2.0 %
152Sm (KED)	0.022 ppb	3.7 %
153Eu (KED)	0.005 ppb	2.4 %
158Gd (KED)	0.020 ppb	5.7 %
159Tb (KED)	98.149 %	0.7 %
164Dy (KED)	0.014 ppb	3.4 %
166Er (KED)	0.005 ppb	23.8 %
169Tm (KED)	0.001 ppb	5.7 %
174Yb (KED)	0.006 ppb	8.1 %
175Lu (KED)	-0.008 ppb	27.5 %
205Tl (KED)	0.003 ppb	10.5 %
208Pb (KED)	0.308 ppb	0.5 %
209Bi (KED)	94.429 %	1.2 %
232Th (KED)	0.036 ppb	1.7 %
238U (KED)	0.011 ppb	3.4 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	107.062 %	2,931 cps	2.8 %
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	-4.802 ppb	1,395 cps	7.6 %
24Mg (KED)	78.040 ppb	44,768 cps	2.4 %
27Al (KED)	143.507 ppb	20,359 cps	1.4 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	104.735 %	52,745 cps	2.0 %
51V (KED)	0.272 ppb	2,531 cps	5.8 %
52Cr (KED)	0.645 ppb	9,490 cps	0.2 %
55Mn (KED)	5.659 ppb	40,479 cps	0.8 %
56Fe (KED)	128.060 ppb	1,668,854 cps	1.0 %
58Ni (KED)	0.821 ppb	14,013 cps	1.5 %
59Co (KED)	0.086 ppb	2,380 cps	5.5 %
63Cu (KED)	2.913 ppb	59,445 cps	1.2 %
64Zn (KED)	45.688 ppb	247,142 cps	0.9 %
69Ga (KED)	0.493 ppb	3,375 cps	3.9 %
75As (KED)	0.105 ppb	167 cps	5.3 %
80Se (KED)	-0.084 ppb	1,375 cps	1.7 %
85Rb (KED)	0.316 ppb	1,852 cps	5.9 %
88Sr (KED)	1.041 ppb	8,640 cps	3.5 %
89Y (KED)	98.723 %	439,289 cps	1.0 %
107Ag (KED)	0.026 ppb	1,349 cps	3.7 %
114Cd (KED)	0.015 ppb	332 cps	5.7 %
115In (KED)	95.716 %	768,173 cps	1.3 %
133Cs (KED)	0.026 ppb	769 cps	8.9 %
138Ba (KED)	1.514 ppb	62,884 cps	1.8 %
139La (KED)	0.128 ppb	11,064 cps	1.1 %
140Ce (KED)	0.272 ppb	32,040 cps	3.2 %
141Pr (KED)	0.030 ppb	3,546 cps	3.9 %
142Nd (KED)	0.165 ppb	7,988 cps	2.3 %
152Sm (KED)	0.022 ppb	930 cps	4.3 %
153Eu (KED)	0.005 ppb	401 cps	2.9 %
158Gd (KED)	0.020 ppb	1,128 cps	6.0 %
159Tb (KED)	98.149 %	3,940,762 cps	0.7 %
164Dy (KED)	0.014 ppb	880 cps	4.0 %
166Er (KED)	0.005 ppb	718 cps	11.6 %
169Tm (KED)	0.001 ppb	223 cps	5.2 %
174Yb (KED)	0.006 ppb	568 cps	7.8 %
175Lu (KED)	-0.008 ppb	13,590 cps	2.3 %
205Tl (KED)	0.003 ppb	618 cps	9.8 %
208Pb (KED)	0.308 ppb	45,145 cps	1.1 %
209Bi (KED)	94.429 %	3,227,438 cps	1.2 %
232Th (KED)	0.036 ppb	9,074 cps	1.6 %
238U (KED)	0.011 ppb	3,029 cps	3.6 %

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 18

Analysis name: 80127

Analysis started at: 11/3/2021 3:25:06 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	35.755 %	172.3 %
11B (KED)	Infinity ppb	
27Al (KED)	129.871 ppb	88.2 %
45Sc (KED)	31.421 %	172.7 %
51V (KED)	0.319 ppb	102.9 %
52Cr (KED)	11.158 ppb	153.0 %
55Mn (KED)	9.025 ppb	90.6 %
56Fe (KED)	201.696 ppb	39.6 %
58Ni (KED)	15.531 ppb	143.1 %
59Co (KED)	1.729 ppb	156.5 %
63Cu (KED)	98.233 ppb	164.2 %
64Zn (KED)	472.114 ppb	155.3 %
69Ga (KED)	0.753 ppb	107.8 %
75As (KED)	49.804 ppb	170.0 %
80Se (KED)	77,666.093 ppb	169.7 %
85Rb (KED)	13.785 ppb	151.5 %
88Sr (KED)	3.049 ppb	90.4 %
89Y (KED)	27.561 %	172.8 %
107Ag (KED)	0.572 ppb	84.4 %
114Cd (KED)	0.376 ppb	151.2 %
115In (KED)	25.466 %	172.2 %
133Cs (KED)	0.525 ppb	81.5 %
138Ba (KED)	1.729 ppb	99.7 %
139La (KED)	0.170 ppb	106.7 %
140Ce (KED)	2.588 ppb	145.4 %
141Pr (KED)	0.012 ppb	178.9 %
142Nd (KED)	0.136 ppb	90.2 %
152Sm (KED)	0.008 ppb	177.4 %
153Eu (KED)	0.002 ppb	185.7 %
158Gd (KED)	0.009 ppb	176.8 %
159Tb (KED)	26.629 %	173.0 %
164Dy (KED)	0.005 ppb	188.3 %
166Er (KED)	0.000 ppb	7,205.7 %
169Tm (KED)	1.119 ppb	171.4 %
174Yb (KED)	0.002 ppb	199.4 %
175Lu (KED)	-0.034 ppb	173.1 %
205Tl (KED)	3.024 ppb	132.5 %
208Pb (KED)	3.227 ppb	126.1 %
209Bi (KED)	25.063 %	172.9 %
232Th (KED)	0.022 ppb	116.0 %
238U (KED)	0.005 ppb	195.6 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	35.755 %	979 cps	172.3 %
9Be (KED)		0 cps	
11B (KED)	Infinity ppb	915 cps	169.1 %
24Mg (KED)		28,448 cps	172.7 %
27Al (KED)	129.871 ppb	8,093 cps	172.7 %
45Sc (KED)	31.421 %	15,824 cps	172.7 %
51V (KED)	0.319 ppb	850 cps	172.2 %

Category	Concentration average	Intensity average	Intensity RSD
52Cr (KED)	11.158 ppb	2,971 cps	170.2 %
55Mn (KED)	9.025 ppb	8,770 cps	172.5 %
56Fe (KED)	201.696 ppb	594,509 cps	172.6 %
58Ni (KED)	15.531 ppb	5,169 cps	169.7 %
59Co (KED)	1.729 ppb	1,539 cps	171.9 %
63Cu (KED)	98.233 ppb	15,392 cps	171.6 %
64Zn (KED)	472.114 ppb	72,643 cps	172.7 %
69Ga (KED)	0.753 ppb	1,305 cps	172.3 %
75As (KED)	49.804 ppb	51 cps	161.9 %
80Se (KED)	77,666.093 ppb	1,548 cps	12.1 %
85Rb (KED)	13.785 ppb	1,946 cps	172.3 %
88Sr (KED)	3.049 ppb	12,030 cps	172.9 %
89Y (KED)	27.561 %	122,637 cps	172.8 %
107Ag (KED)	0.572 ppb	324 cps	136.8 %
114Cd (KED)	0.376 ppb	71 cps	141.4 %
115In (KED)	25.466 %	204,378 cps	172.2 %
133Cs (KED)	0.525 ppb	267 cps	150.5 %
138Ba (KED)	1.729 ppb	21,560 cps	172.9 %
139La (KED)	0.170 ppb	3,543 cps	172.7 %
140Ce (KED)	2.588 ppb	10,810 cps	172.9 %
141Pr (KED)	0.012 ppb	1,135 cps	173.2 %
142Nd (KED)	0.136 ppb	2,600 cps	173.0 %
152Sm (KED)	0.008 ppb	284 cps	173.2 %
153Eu (KED)	0.002 ppb	126 cps	173.2 %
158Gd (KED)	0.009 ppb	424 cps	173.2 %
159Tb (KED)	26.629 %	1,069,173 cps	173.0 %
164Dy (KED)	0.005 ppb	298 cps	173.2 %
166Er (KED)	0.000 ppb	278 cps	173.2 %
169Tm (KED)	1.119 ppb	89 cps	166.7 %
174Yb (KED)	0.002 ppb	168 cps	173.2 %
175Lu (KED)	-0.034 ppb	3,814 cps	173.0 %
205Tl (KED)	3.024 ppb	562 cps	105.1 %
208Pb (KED)	3.227 ppb	11,325 cps	170.7 %
209Bi (KED)	25.063 %	856,606 cps	172.9 %
232Th (KED)	0.022 ppb	3,185 cps	173.1 %
238U (KED)	0.005 ppb	1,200 cps	173.2 %

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 19

Analysis name: 804239

Analysis started at: 11/3/2021 3:28:19 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	109.579 %	3.5 %
9Be (KED)	0.014 ppb	86.7 %
11B (KED)	-17.076 ppb	6.9 %
24Mg (KED)	128.398 ppb	3.2 %
27Al (KED)	218.617 ppb	3.2 %
45Sc (KED)	106.481 %	0.6 %
51V (KED)	0.388 ppb	4.3 %
52Cr (KED)	0.893 ppb	1.6 %
55Mn (KED)	6.302 ppb	1.3 %
56Fe (KED)	204.759 ppb	2.1 %
58Ni (KED)	1.302 ppb	1.7 %
59Co (KED)	0.106 ppb	3.0 %
63Cu (KED)	2.770 ppb	2.6 %
64Zn (KED)	52.619 ppb	1.8 %
69Ga (KED)	0.812 ppb	1.2 %
75As (KED)	0.153 ppb	19.0 %
80Se (KED)	-0.286 ppb	80.6 %
85Rb (KED)	0.682 ppb	1.7 %
88Sr (KED)	1.779 ppb	1.2 %
89Y (KED)	101.520 %	1.4 %
107Ag (KED)	0.046 ppb	4.0 %
114Cd (KED)	0.013 ppb	18.6 %
115In (KED)	96.479 %	0.6 %
133Cs (KED)	0.041 ppb	1.1 %
138Ba (KED)	2.503 ppb	1.4 %
139La (KED)	0.248 ppb	2.9 %
140Ce (KED)	0.526 ppb	3.1 %
141Pr (KED)	0.057 ppb	0.9 %
142Nd (KED)	0.317 ppb	3.0 %
152Sm (KED)	0.040 ppb	4.9 %
153Eu (KED)	0.006 ppb	3.1 %
158Gd (KED)	0.033 ppb	1.6 %
159Tb (KED)	99.352 %	1.3 %
164Dy (KED)	0.021 ppb	6.7 %
166Er (KED)	0.009 ppb	10.5 %
169Tm (KED)	0.001 ppb	15.7 %
174Yb (KED)	0.008 ppb	9.2 %
175Lu (KED)	-0.006 ppb	30.0 %
205Tl (KED)	0.005 ppb	4.6 %
208Pb (KED)	0.424 ppb	1.3 %
209Bi (KED)	94.795 %	1.1 %
232Th (KED)	0.063 ppb	3.5 %
238U (KED)	0.013 ppb	4.6 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	109.579 %	3,000 cps	3.5 %
9Be (KED)	0.014 ppb	2 cps	86.6 %
11B (KED)	-17.076 ppb	624 cps	11.8 %
24Mg (KED)	128.398 ppb	75,183 cps	0.7 %
27Al (KED)	218.617 ppb	31,364 cps	3.0 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	106.481 %	53,624 cps	0.6 %
51V (KED)	0.388 ppb	3,666 cps	4.0 %
52Cr (KED)	0.893 ppb	13,308 cps	1.3 %
55Mn (KED)	6.302 ppb	45,825 cps	1.4 %
56Fe (KED)	204.759 ppb	2,710,114 cps	1.6 %
58Ni (KED)	1.302 ppb	22,397 cps	1.5 %
59Co (KED)	0.106 ppb	2,979 cps	3.4 %
63Cu (KED)	2.770 ppb	58,174 cps	1.5 %
64Zn (KED)	52.619 ppb	290,864 cps	0.8 %
69Ga (KED)	0.812 ppb	5,602 cps	2.6 %
75As (KED)	0.153 ppb	244 cps	16.9 %
80Se (KED)	-0.286 ppb	1,323 cps	9.0 %
85Rb (KED)	0.682 ppb	4,085 cps	3.1 %
88Sr (KED)	1.779 ppb	15,020 cps	0.3 %
89Y (KED)	101.520 %	451,739 cps	1.4 %
107Ag (KED)	0.046 ppb	2,395 cps	3.4 %
114Cd (KED)	0.013 ppb	289 cps	15.7 %
115In (KED)	96.479 %	774,295 cps	0.6 %
133Cs (KED)	0.041 ppb	1,203 cps	1.7 %
138Ba (KED)	2.503 ppb	102,927 cps	0.4 %
139La (KED)	0.248 ppb	21,645 cps	1.7 %
140Ce (KED)	0.526 ppb	61,703 cps	4.0 %
141Pr (KED)	0.057 ppb	6,810 cps	1.6 %
142Nd (KED)	0.317 ppb	15,321 cps	2.4 %
152Sm (KED)	0.040 ppb	1,687 cps	5.3 %
153Eu (KED)	0.006 ppb	520 cps	3.3 %
158Gd (KED)	0.033 ppb	1,885 cps	1.8 %
159Tb (KED)	99.352 %	3,989,056 cps	1.3 %
164Dy (KED)	0.021 ppb	1,313 cps	7.1 %
166Er (KED)	0.009 ppb	1,023 cps	7.9 %
169Tm (KED)	0.001 ppb	360 cps	16.1 %
174Yb (KED)	0.008 ppb	761 cps	7.7 %
175Lu (KED)	-0.006 ppb	14,114 cps	2.5 %
205Tl (KED)	0.005 ppb	932 cps	3.8 %
208Pb (KED)	0.424 ppb	58,936 cps	2.0 %
209Bi (KED)	94.795 %	3,239,948 cps	1.1 %
232Th (KED)	0.063 ppb	15,445 cps	2.9 %
238U (KED)	0.013 ppb	3,765 cps	3.5 %

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 20

Analysis name: 605207duan jian

Analysis started at: 11/3/2021 3:31:33 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	112.623 %	2.6 %
9Be (KED)	0.021 ppb	101.4 %
11B (KED)	58.860 ppb	5.2 %
24Mg (KED)	79.724 ppb	2.2 %
27Al (KED)	123.112 ppb	2.6 %
45Sc (KED)	106.618 %	1.1 %
51V (KED)	0.217 ppb	5.1 %
52Cr (KED)	0.682 ppb	2.0 %
55Mn (KED)	4.714 ppb	1.8 %
56Fe (KED)	114.258 ppb	1.8 %
58Ni (KED)	0.720 ppb	2.9 %
59Co (KED)	0.067 ppb	4.0 %
63Cu (KED)	2.564 ppb	2.1 %
64Zn (KED)	48.992 ppb	0.5 %
69Ga (KED)	0.455 ppb	3.9 %
75As (KED)	0.088 ppb	10.7 %
80Se (KED)	-0.154 ppb	110.5 %
85Rb (KED)	0.322 ppb	1.2 %
88Sr (KED)	1.328 ppb	2.0 %
89Y (KED)	99.000 %	1.2 %
107Ag (KED)	0.023 ppb	3.0 %
114Cd (KED)	0.008 ppb	16.6 %
115In (KED)	93.929 %	1.4 %
133Cs (KED)	0.031 ppb	10.9 %
138Ba (KED)	1.402 ppb	1.4 %
139La (KED)	0.116 ppb	0.4 %
140Ce (KED)	0.256 ppb	2.3 %
141Pr (KED)	0.026 ppb	4.9 %
142Nd (KED)	0.153 ppb	6.3 %
152Sm (KED)	0.021 ppb	8.1 %
153Eu (KED)	0.004 ppb	12.6 %
158Gd (KED)	0.018 ppb	7.9 %
159Tb (KED)	95.489 %	1.1 %
164Dy (KED)	0.013 ppb	12.5 %
166Er (KED)	0.006 ppb	9.7 %
169Tm (KED)	0.001 ppb	8.0 %
174Yb (KED)	0.005 ppb	2.6 %
175Lu (KED)	-0.009 ppb	20.8 %
205Tl (KED)	0.003 ppb	8.6 %
208Pb (KED)	0.214 ppb	5.8 %
209Bi (KED)	93.042 %	2.1 %
232Th (KED)	0.031 ppb	3.2 %
238U (KED)	0.008 ppb	5.6 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	112.623 %	3,084 cps	2.6 %
9Be (KED)	0.021 ppb	3 cps	100.0 %
11B (KED)	58.860 ppb	5,751 cps	1.6 %
24Mg (KED)	79.724 ppb	48,117 cps	0.5 %
27Al (KED)	123.112 ppb	17,827 cps	1.5 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	106.618 %	53,693 cps	1.1 %
51V (KED)	0.217 ppb	2,059 cps	4.9 %
52Cr (KED)	0.682 ppb	10,209 cps	2.2 %
55Mn (KED)	4.714 ppb	34,346 cps	1.0 %
56Fe (KED)	114.258 ppb	1,516,323 cps	0.8 %
58Ni (KED)	0.720 ppb	12,543 cps	2.0 %
59Co (KED)	0.067 ppb	1,908 cps	4.0 %
63Cu (KED)	2.564 ppb	52,593 cps	1.0 %
64Zn (KED)	48.992 ppb	264,934 cps	0.7 %
69Ga (KED)	0.455 ppb	3,133 cps	3.9 %
75As (KED)	0.088 ppb	142 cps	9.8 %
80Se (KED)	-0.154 ppb	1,348 cps	6.2 %
85Rb (KED)	0.322 ppb	1,891 cps	0.7 %
88Sr (KED)	1.328 ppb	10,994 cps	3.2 %
89Y (KED)	99.000 %	440,524 cps	1.2 %
107Ag (KED)	0.023 ppb	1,181 cps	3.2 %
114Cd (KED)	0.008 ppb	198 cps	13.5 %
115In (KED)	93.929 %	753,828 cps	1.4 %
133Cs (KED)	0.031 ppb	901 cps	12.0 %
138Ba (KED)	1.402 ppb	56,919 cps	2.4 %
139La (KED)	0.116 ppb	9,767 cps	1.4 %
140Ce (KED)	0.256 ppb	29,447 cps	3.2 %
141Pr (KED)	0.026 ppb	3,016 cps	4.5 %
142Nd (KED)	0.153 ppb	7,225 cps	7.2 %
152Sm (KED)	0.021 ppb	836 cps	7.8 %
153Eu (KED)	0.004 ppb	361 cps	12.2 %
158Gd (KED)	0.018 ppb	979 cps	7.1 %
159Tb (KED)	95.489 %	3,833,950 cps	1.1 %
164Dy (KED)	0.013 ppb	794 cps	11.0 %
166Er (KED)	0.006 ppb	734 cps	5.0 %
169Tm (KED)	0.001 ppb	188 cps	8.2 %
174Yb (KED)	0.005 ppb	419 cps	1.7 %
175Lu (KED)	-0.009 ppb	13,077 cps	2.5 %
205Tl (KED)	0.003 ppb	568 cps	10.0 %
208Pb (KED)	0.214 ppb	33,705 cps	2.1 %
209Bi (KED)	93.042 %	3,180,063 cps	2.1 %
232Th (KED)	0.031 ppb	7,724 cps	1.0 %
238U (KED)	0.008 ppb	2,171 cps	5.0 %

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 21

Analysis name: 80171

Analysis started at: 11/3/2021 3:34:49 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	112.786 %	2.1 %
9Be (KED)	0.007 ppb	173.2 %
11B (KED)	-9.993 ppb	7.3 %
24Mg (KED)	92.418 ppb	4.6 %
27Al (KED)	106.944 ppb	4.1 %
45Sc (KED)	106.385 %	0.8 %
51V (KED)	0.217 ppb	10.5 %
52Cr (KED)	0.897 ppb	1.9 %
55Mn (KED)	3.957 ppb	1.5 %
56Fe (KED)	118.047 ppb	1.5 %
58Ni (KED)	0.824 ppb	2.5 %
59Co (KED)	0.063 ppb	1.5 %
63Cu (KED)	2.521 ppb	2.6 %
64Zn (KED)	52.220 ppb	1.2 %
69Ga (KED)	0.482 ppb	2.7 %
75As (KED)	0.105 ppb	37.3 %
80Se (KED)	-0.078 ppb	148.8 %
85Rb (KED)	0.869 ppb	2.3 %
88Sr (KED)	1.033 ppb	0.8 %
89Y (KED)	98.909 %	1.1 %
107Ag (KED)	0.022 ppb	10.2 %
114Cd (KED)	0.012 ppb	9.1 %
115In (KED)	94.712 %	1.0 %
133Cs (KED)	0.024 ppb	7.3 %
138Ba (KED)	1.458 ppb	1.1 %
139La (KED)	0.115 ppb	2.2 %
140Ce (KED)	0.283 ppb	23.5 %
141Pr (KED)	0.027 ppb	6.1 %
142Nd (KED)	0.146 ppb	5.4 %
152Sm (KED)	0.019 ppb	6.6 %
153Eu (KED)	0.004 ppb	8.1 %
158Gd (KED)	0.017 ppb	4.5 %
159Tb (KED)	98.385 %	0.8 %
164Dy (KED)	0.012 ppb	9.6 %
166Er (KED)	0.003 ppb	30.0 %
169Tm (KED)	0.001 ppb	15.3 %
174Yb (KED)	0.004 ppb	20.8 %
175Lu (KED)	-0.011 ppb	22.0 %
205Tl (KED)	0.003 ppb	3.7 %
208Pb (KED)	0.203 ppb	4.0 %
209Bi (KED)	92.570 %	0.3 %
232Th (KED)	0.032 ppb	2.1 %
238U (KED)	0.007 ppb	3.7 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	112.786 %	3,088 cps	2.1 %
9Be (KED)	0.007 ppb	1 cps	173.2 %
11B (KED)	-9.993 ppb	1,121 cps	5.9 %
24Mg (KED)	92.418 ppb	55,794 cps	2.5 %
27Al (KED)	106.944 ppb	15,495 cps	3.2 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	106.385 %	53,576 cps	0.8 %
51V (KED)	0.217 ppb	2,054 cps	11.0 %
52Cr (KED)	0.897 ppb	13,350 cps	1.4 %
55Mn (KED)	3.957 ppb	28,781 cps	1.1 %
56Fe (KED)	118.047 ppb	1,563,108 cps	1.1 %
58Ni (KED)	0.824 ppb	14,279 cps	1.7 %
59Co (KED)	0.063 ppb	1,775 cps	1.7 %
63Cu (KED)	2.521 ppb	51,666 cps	1.7 %
64Zn (KED)	52.220 ppb	281,340 cps	0.1 %
69Ga (KED)	0.482 ppb	3,308 cps	1.7 %
75As (KED)	0.105 ppb	167 cps	33.6 %
80Se (KED)	-0.078 ppb	1,380 cps	4.4 %
85Rb (KED)	0.869 ppb	5,065 cps	2.7 %
88Sr (KED)	1.033 ppb	8,589 cps	0.4 %
89Y (KED)	98.909 %	440,118 cps	1.1 %
107Ag (KED)	0.022 ppb	1,157 cps	9.1 %
114Cd (KED)	0.012 ppb	257 cps	8.5 %
115In (KED)	94.712 %	760,109 cps	1.0 %
133Cs (KED)	0.024 ppb	694 cps	6.1 %
138Ba (KED)	1.458 ppb	60,867 cps	1.8 %
139La (KED)	0.115 ppb	9,967 cps	1.8 %
140Ce (KED)	0.283 ppb	33,461 cps	23.6 %
141Pr (KED)	0.027 ppb	3,188 cps	5.4 %
142Nd (KED)	0.146 ppb	7,125 cps	4.4 %
152Sm (KED)	0.019 ppb	783 cps	6.0 %
153Eu (KED)	0.004 ppb	302 cps	8.4 %
158Gd (KED)	0.017 ppb	970 cps	4.2 %
159Tb (KED)	98.385 %	3,950,224 cps	0.8 %
164Dy (KED)	0.012 ppb	738 cps	8.5 %
166Er (KED)	0.003 ppb	576 cps	11.3 %
169Tm (KED)	0.001 ppb	167 cps	14.0 %
174Yb (KED)	0.004 ppb	370 cps	18.6 %
175Lu (KED)	-0.011 ppb	13,289 cps	1.8 %
205Tl (KED)	0.003 ppb	572 cps	3.2 %
208Pb (KED)	0.203 ppb	32,320 cps	2.8 %
209Bi (KED)	92.570 %	3,163,912 cps	0.3 %
232Th (KED)	0.032 ppb	7,760 cps	1.8 %
238U (KED)	0.007 ppb	2,090 cps	3.2 %

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 22

Analysis name: 803106chang jian

Analysis started at: 11/3/2021 3:38:03 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	109.944 %	3.1 %
9Be (KED)	0.007 ppb	173.2 %
11B (KED)	-11.655 ppb	12.8 %
24Mg (KED)	91.480 ppb	2.8 %
27Al (KED)	138.289 ppb	1.4 %
45Sc (KED)	104.422 %	0.6 %
51V (KED)	0.250 ppb	11.3 %
52Cr (KED)	0.627 ppb	1.8 %
55Mn (KED)	4.262 ppb	1.1 %
56Fe (KED)	137.224 ppb	1.2 %
58Ni (KED)	0.980 ppb	3.0 %
59Co (KED)	0.073 ppb	6.4 %
63Cu (KED)	2.740 ppb	1.2 %
64Zn (KED)	56.610 ppb	1.7 %
69Ga (KED)	0.581 ppb	1.8 %
75As (KED)	0.118 ppb	17.7 %
80Se (KED)	-0.103 ppb	324.8 %
85Rb (KED)	0.528 ppb	1.0 %
88Sr (KED)	1.305 ppb	0.8 %
89Y (KED)	97.693 %	1.1 %
107Ag (KED)	0.022 ppb	1.1 %
114Cd (KED)	0.013 ppb	12.5 %
115In (KED)	94.506 %	0.8 %
133Cs (KED)	0.026 ppb	4.6 %
138Ba (KED)	1.818 ppb	1.7 %
139La (KED)	0.138 ppb	2.4 %
140Ce (KED)	0.281 ppb	0.7 %
141Pr (KED)	0.033 ppb	5.5 %
142Nd (KED)	0.174 ppb	4.0 %
152Sm (KED)	0.023 ppb	9.3 %
153Eu (KED)	0.004 ppb	10.5 %
158Gd (KED)	0.020 ppb	5.5 %
159Tb (KED)	95.789 %	0.6 %
164Dy (KED)	0.013 ppb	6.8 %
166Er (KED)	0.004 ppb	2.5 %
169Tm (KED)	0.001 ppb	10.1 %
174Yb (KED)	0.005 ppb	15.3 %
175Lu (KED)	-0.007 ppb	18.0 %
205Tl (KED)	0.004 ppb	11.2 %
208Pb (KED)	0.233 ppb	0.7 %
209Bi (KED)	91.087 %	1.3 %
232Th (KED)	0.041 ppb	3.0 %
238U (KED)	0.008 ppb	3.5 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	109.944 %	3,010 cps	3.1 %
9Be (KED)	0.007 ppb	1 cps	173.2 %
11B (KED)	-11.655 ppb	984 cps	12.2 %
24Mg (KED)	91.480 ppb	53,843 cps	0.5 %
27Al (KED)	138.289 ppb	19,575 cps	1.1 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	104.422 %	52,587 cps	0.6 %
51V (KED)	0.250 ppb	2,319 cps	11.2 %
52Cr (KED)	0.627 ppb	9,202 cps	2.3 %
55Mn (KED)	4.262 ppb	30,425 cps	0.6 %
56Fe (KED)	137.224 ppb	1,782,853 cps	1.3 %
58Ni (KED)	0.980 ppb	16,616 cps	2.8 %
59Co (KED)	0.073 ppb	2,035 cps	6.7 %
63Cu (KED)	2.740 ppb	55,400 cps	1.5 %
64Zn (KED)	56.610 ppb	300,266 cps	0.7 %
69Ga (KED)	0.581 ppb	3,901 cps	1.4 %
75As (KED)	0.118 ppb	184 cps	16.2 %
80Se (KED)	-0.103 ppb	1,351 cps	9.5 %
85Rb (KED)	0.528 ppb	3,051 cps	2.0 %
88Sr (KED)	1.305 ppb	10,659 cps	0.7 %
89Y (KED)	97.693 %	434,709 cps	1.1 %
107Ag (KED)	0.022 ppb	1,168 cps	1.8 %
114Cd (KED)	0.013 ppb	282 cps	10.3 %
115In (KED)	94.506 %	758,458 cps	0.8 %
133Cs (KED)	0.026 ppb	772 cps	4.4 %
138Ba (KED)	1.818 ppb	72,999 cps	1.1 %
139La (KED)	0.138 ppb	11,638 cps	1.9 %
140Ce (KED)	0.281 ppb	32,255 cps	0.2 %
141Pr (KED)	0.033 ppb	3,795 cps	4.8 %
142Nd (KED)	0.174 ppb	8,194 cps	4.1 %
152Sm (KED)	0.023 ppb	946 cps	9.3 %
153Eu (KED)	0.004 ppb	371 cps	9.9 %
158Gd (KED)	0.020 ppb	1,093 cps	5.3 %
159Tb (KED)	95.789 %	3,845,986 cps	0.6 %
164Dy (KED)	0.013 ppb	833 cps	6.3 %
166Er (KED)	0.004 ppb	646 cps	0.8 %
169Tm (KED)	0.001 ppb	209 cps	9.1 %
174Yb (KED)	0.005 ppb	486 cps	14.0 %
175Lu (KED)	-0.007 ppb	13,424 cps	1.9 %
205Tl (KED)	0.004 ppb	712 cps	11.7 %
208Pb (KED)	0.233 ppb	35,116 cps	0.8 %
209Bi (KED)	91.087 %	3,113,212 cps	1.3 %
232Th (KED)	0.041 ppb	9,798 cps	1.9 %
238U (KED)	0.008 ppb	2,289 cps	3.3 %

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 23

Analysis name: 80110

Analysis started at: 11/3/2021 3:41:14 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	112.258 %	1.6 %
9Be (KED)	0.000 ppb	
11B (KED)	-1.327 ppb	99.8 %
24Mg (KED)	71.858 ppb	1.8 %
27Al (KED)	113.821 ppb	0.9 %
45Sc (KED)	106.432 %	1.8 %
51V (KED)	0.225 ppb	7.2 %
52Cr (KED)	0.690 ppb	3.6 %
55Mn (KED)	3.860 ppb	1.7 %
56Fe (KED)	107.293 ppb	1.9 %
58Ni (KED)	0.883 ppb	3.7 %
59Co (KED)	0.056 ppb	5.9 %
63Cu (KED)	2.398 ppb	0.7 %
64Zn (KED)	51.592 ppb	0.2 %
69Ga (KED)	0.475 ppb	3.6 %
75As (KED)	0.105 ppb	3.5 %
80Se (KED)	-0.188 ppb	92.9 %
85Rb (KED)	0.651 ppb	3.9 %
88Sr (KED)	0.932 ppb	3.3 %
89Y (KED)	99.739 %	1.3 %
107Ag (KED)	0.010 ppb	3.2 %
114Cd (KED)	0.014 ppb	19.5 %
115In (KED)	94.979 %	1.6 %
133Cs (KED)	0.022 ppb	12.6 %
138Ba (KED)	1.420 ppb	6.6 %
139La (KED)	0.103 ppb	2.0 %
140Ce (KED)	0.216 ppb	4.3 %
141Pr (KED)	0.024 ppb	6.9 %
142Nd (KED)	0.132 ppb	3.1 %
152Sm (KED)	0.017 ppb	11.7 %
153Eu (KED)	0.003 ppb	8.5 %
158Gd (KED)	0.014 ppb	1.7 %
159Tb (KED)	97.882 %	3.5 %
164Dy (KED)	0.010 ppb	8.9 %
166Er (KED)	0.003 ppb	26.8 %
169Tm (KED)	0.001 ppb	11.0 %
174Yb (KED)	0.004 ppb	5.5 %
175Lu (KED)	-0.009 ppb	39.7 %
205Tl (KED)	0.003 ppb	5.6 %
208Pb (KED)	0.256 ppb	0.8 %
209Bi (KED)	93.301 %	0.4 %
232Th (KED)	0.029 ppb	1.7 %
238U (KED)	0.007 ppb	5.6 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	112.258 %	3,074 cps	1.6 %
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	-1.327 ppb	1,697 cps	5.0 %
24Mg (KED)	71.858 ppb	43,270 cps	1.0 %
27Al (KED)	113.821 ppb	16,480 cps	1.3 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	106.432 %	53,599 cps	1.8 %
51V (KED)	0.225 ppb	2,134 cps	5.5 %
52Cr (KED)	0.690 ppb	10,302 cps	2.2 %
55Mn (KED)	3.860 ppb	28,087 cps	0.1 %
56Fe (KED)	107.293 ppb	1,421,537 cps	0.3 %
58Ni (KED)	0.883 ppb	15,289 cps	1.9 %
59Co (KED)	0.056 ppb	1,588 cps	4.4 %
63Cu (KED)	2.398 ppb	49,616 cps	0.7 %
64Zn (KED)	51.592 ppb	280,453 cps	1.2 %
69Ga (KED)	0.475 ppb	3,287 cps	2.2 %
75As (KED)	0.105 ppb	169 cps	2.3 %
80Se (KED)	-0.188 ppb	1,343 cps	7.0 %
85Rb (KED)	0.651 ppb	3,831 cps	3.4 %
88Sr (KED)	0.932 ppb	7,828 cps	3.2 %
89Y (KED)	99.739 %	443,814 cps	1.3 %
107Ag (KED)	0.010 ppb	553 cps	4.3 %
114Cd (KED)	0.014 ppb	294 cps	17.2 %
115In (KED)	94.979 %	762,258 cps	1.6 %
133Cs (KED)	0.022 ppb	656 cps	13.5 %
138Ba (KED)	1.420 ppb	58,973 cps	4.2 %
139La (KED)	0.103 ppb	8,899 cps	1.6 %
140Ce (KED)	0.216 ppb	25,599 cps	1.3 %
141Pr (KED)	0.024 ppb	2,781 cps	3.4 %
142Nd (KED)	0.132 ppb	6,439 cps	4.1 %
152Sm (KED)	0.017 ppb	712 cps	9.8 %
153Eu (KED)	0.003 ppb	251 cps	5.0 %
158Gd (KED)	0.014 ppb	817 cps	1.8 %
159Tb (KED)	97.882 %	3,930,036 cps	3.5 %
164Dy (KED)	0.010 ppb	671 cps	10.7 %
166Er (KED)	0.003 ppb	584 cps	8.7 %
169Tm (KED)	0.001 ppb	160 cps	7.5 %
174Yb (KED)	0.004 ppb	353 cps	8.2 %
175Lu (KED)	-0.009 ppb	13,501 cps	1.1 %
205Tl (KED)	0.003 ppb	563 cps	5.3 %
208Pb (KED)	0.256 ppb	38,584 cps	1.0 %
209Bi (KED)	93.301 %	3,188,888 cps	0.4 %
232Th (KED)	0.029 ppb	7,139 cps	1.4 %
238U (KED)	0.007 ppb	1,910 cps	5.2 %

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 24

Analysis name: 503149chang jian

Analysis started at: 11/3/2021 3:44:29 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	110.188 %	3.8 %
9Be (KED)	0.000 ppb	
11B (KED)	-7.880 ppb	15.3 %
24Mg (KED)	64.804 ppb	5.3 %
27Al (KED)	127.977 ppb	1.3 %
45Sc (KED)	103.851 %	1.9 %
51V (KED)	0.222 ppb	4.7 %
52Cr (KED)	0.580 ppb	1.5 %
55Mn (KED)	3.971 ppb	1.7 %
56Fe (KED)	123.792 ppb	0.5 %
58Ni (KED)	0.735 ppb	1.5 %
59Co (KED)	0.063 ppb	2.4 %
63Cu (KED)	2.666 ppb	0.6 %
64Zn (KED)	55.575 ppb	1.6 %
69Ga (KED)	0.543 ppb	1.2 %
75As (KED)	0.097 ppb	22.6 %
80Se (KED)	-0.094 ppb	41.3 %
85Rb (KED)	0.359 ppb	7.1 %
88Sr (KED)	0.946 ppb	1.6 %
89Y (KED)	95.666 %	0.7 %
107Ag (KED)	0.027 ppb	4.5 %
114Cd (KED)	0.008 ppb	13.1 %
115In (KED)	93.995 %	2.0 %
133Cs (KED)	0.021 ppb	1.9 %
138Ba (KED)	1.638 ppb	0.8 %
139La (KED)	0.111 ppb	4.0 %
140Ce (KED)	0.234 ppb	3.2 %
141Pr (KED)	0.026 ppb	3.1 %
142Nd (KED)	0.142 ppb	2.5 %
152Sm (KED)	0.018 ppb	6.5 %
153Eu (KED)	0.004 ppb	24.3 %
158Gd (KED)	0.016 ppb	6.4 %
159Tb (KED)	97.013 %	1.0 %
164Dy (KED)	0.012 ppb	2.7 %
166Er (KED)	0.003 ppb	20.1 %
169Tm (KED)	0.001 ppb	7.0 %
174Yb (KED)	0.005 ppb	2.9 %
175Lu (KED)	-0.010 ppb	7.8 %
205Tl (KED)	0.003 ppb	10.1 %
208Pb (KED)	0.243 ppb	3.6 %
209Bi (KED)	92.841 %	1.6 %
232Th (KED)	0.032 ppb	3.8 %
238U (KED)	0.010 ppb	4.0 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	110.188 %	3,017 cps	3.8 %
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	-7.880 ppb	1,232 cps	3.4 %
24Mg (KED)	64.804 ppb	38,290 cps	1.7 %
27Al (KED)	127.977 ppb	18,039 cps	1.0 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	103.851 %	52,299 cps	1.9 %
51V (KED)	0.222 ppb	2,057 cps	4.4 %
52Cr (KED)	0.580 ppb	8,465 cps	1.3 %
55Mn (KED)	3.971 ppb	28,192 cps	0.1 %
56Fe (KED)	123.792 ppb	1,599,889 cps	1.4 %
58Ni (KED)	0.735 ppb	12,471 cps	3.3 %
59Co (KED)	0.063 ppb	1,730 cps	2.4 %
63Cu (KED)	2.666 ppb	52,796 cps	0.5 %
64Zn (KED)	55.575 ppb	288,881 cps	1.1 %
69Ga (KED)	0.543 ppb	3,586 cps	1.7 %
75As (KED)	0.097 ppb	150 cps	21.2 %
80Se (KED)	-0.094 ppb	1,328 cps	0.8 %
85Rb (KED)	0.359 ppb	2,035 cps	7.8 %
88Sr (KED)	0.946 ppb	7,618 cps	0.9 %
89Y (KED)	95.666 %	425,690 cps	0.7 %
107Ag (KED)	0.027 ppb	1,406 cps	2.6 %
114Cd (KED)	0.008 ppb	197 cps	10.3 %
115In (KED)	93.995 %	754,358 cps	2.0 %
133Cs (KED)	0.021 ppb	631 cps	3.6 %
138Ba (KED)	1.638 ppb	66,960 cps	1.3 %
139La (KED)	0.111 ppb	9,535 cps	3.1 %
140Ce (KED)	0.234 ppb	27,409 cps	3.0 %
141Pr (KED)	0.026 ppb	3,046 cps	2.2 %
142Nd (KED)	0.142 ppb	6,817 cps	1.7 %
152Sm (KED)	0.018 ppb	743 cps	6.6 %
153Eu (KED)	0.004 ppb	321 cps	23.1 %
158Gd (KED)	0.016 ppb	896 cps	6.7 %
159Tb (KED)	97.013 %	3,895,145 cps	1.0 %
164Dy (KED)	0.012 ppb	781 cps	3.6 %
166Er (KED)	0.003 ppb	566 cps	8.9 %
169Tm (KED)	0.001 ppb	179 cps	5.7 %
174Yb (KED)	0.005 ppb	431 cps	1.9 %
175Lu (KED)	-0.010 ppb	13,143 cps	1.6 %
205Tl (KED)	0.003 ppb	596 cps	8.2 %
208Pb (KED)	0.243 ppb	36,994 cps	2.4 %
209Bi (KED)	92.841 %	3,173,193 cps	1.6 %
232Th (KED)	0.032 ppb	7,926 cps	2.2 %
238U (KED)	0.010 ppb	2,756 cps	4.9 %

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 25

Analysis name: 80016jian

Analysis started at: 11/3/2021 3:47:43 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	105.723 %	4.5 %
9Be (KED)	0.015 ppb	86.9 %
11B (KED)	-12.566 ppb	0.6 %
24Mg (KED)	87.548 ppb	4.6 %
27Al (KED)	123.902 ppb	3.3 %
45Sc (KED)	101.914 %	0.5 %
51V (KED)	0.242 ppb	3.8 %
52Cr (KED)	0.900 ppb	0.8 %
55Mn (KED)	4.685 ppb	1.5 %
56Fe (KED)	153.441 ppb	1.4 %
58Ni (KED)	0.958 ppb	3.4 %
59Co (KED)	0.075 ppb	1.9 %
63Cu (KED)	2.808 ppb	2.1 %
64Zn (KED)	65.504 ppb	1.5 %
69Ga (KED)	0.555 ppb	4.4 %
75As (KED)	0.129 ppb	4.0 %
80Se (KED)	-0.167 ppb	39.4 %
85Rb (KED)	0.802 ppb	2.9 %
88Sr (KED)	1.575 ppb	1.1 %
89Y (KED)	95.513 %	1.4 %
107Ag (KED)	0.028 ppb	1.9 %
114Cd (KED)	0.018 ppb	11.7 %
115In (KED)	92.338 %	1.5 %
133Cs (KED)	0.023 ppb	6.4 %
138Ba (KED)	1.721 ppb	1.0 %
139La (KED)	0.113 ppb	1.9 %
140Ce (KED)	0.256 ppb	3.3 %
141Pr (KED)	0.028 ppb	2.8 %
142Nd (KED)	0.153 ppb	5.4 %
152Sm (KED)	0.020 ppb	9.2 %
153Eu (KED)	0.004 ppb	8.2 %
158Gd (KED)	0.017 ppb	1.1 %
159Tb (KED)	95.000 %	0.9 %
164Dy (KED)	0.012 ppb	9.8 %
166Er (KED)	0.005 ppb	30.1 %
169Tm (KED)	0.001 ppb	11.2 %
174Yb (KED)	0.005 ppb	5.4 %
175Lu (KED)	-0.009 ppb	14.0 %
205Tl (KED)	0.003 ppb	11.4 %
208Pb (KED)	0.274 ppb	3.3 %
209Bi (KED)	93.428 %	0.9 %
232Th (KED)	0.031 ppb	2.5 %
238U (KED)	0.008 ppb	3.8 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	105.723 %	2,895 cps	4.5 %
9Be (KED)	0.015 ppb	2 cps	86.6 %
11B (KED)	-12.566 ppb	888 cps	4.0 %
24Mg (KED)	87.548 ppb	49,524 cps	0.1 %
27Al (KED)	123.902 ppb	17,150 cps	2.9 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	101.914 %	51,324 cps	0.5 %
51V (KED)	0.242 ppb	2,198 cps	4.3 %
52Cr (KED)	0.900 ppb	12,829 cps	1.1 %
55Mn (KED)	4.685 ppb	32,636 cps	2.0 %
56Fe (KED)	153.441 ppb	1,945,142 cps	1.7 %
58Ni (KED)	0.958 ppb	15,853 cps	3.4 %
59Co (KED)	0.075 ppb	2,026 cps	2.0 %
63Cu (KED)	2.808 ppb	55,463 cps	1.3 %
64Zn (KED)	65.504 ppb	337,900 cps	0.7 %
69Ga (KED)	0.555 ppb	3,654 cps	5.3 %
75As (KED)	0.129 ppb	197 cps	2.9 %
80Se (KED)	-0.167 ppb	1,295 cps	0.7 %
85Rb (KED)	0.802 ppb	4,515 cps	1.6 %
88Sr (KED)	1.575 ppb	12,537 cps	1.6 %
89Y (KED)	95.513 %	425,009 cps	1.4 %
107Ag (KED)	0.028 ppb	1,400 cps	1.6 %
114Cd (KED)	0.018 ppb	374 cps	8.9 %
115In (KED)	92.338 %	741,064 cps	1.5 %
133Cs (KED)	0.023 ppb	674 cps	7.6 %
138Ba (KED)	1.721 ppb	68,729 cps	0.7 %
139La (KED)	0.113 ppb	9,517 cps	1.0 %
140Ce (KED)	0.256 ppb	29,241 cps	2.4 %
141Pr (KED)	0.028 ppb	3,232 cps	1.9 %
142Nd (KED)	0.153 ppb	7,170 cps	4.9 %
152Sm (KED)	0.020 ppb	799 cps	9.8 %
153Eu (KED)	0.004 ppb	291 cps	8.7 %
158Gd (KED)	0.017 ppb	960 cps	1.2 %
159Tb (KED)	95.000 %	3,814,336 cps	0.9 %
164Dy (KED)	0.012 ppb	761 cps	9.4 %
166Er (KED)	0.005 ppb	692 cps	15.4 %
169Tm (KED)	0.001 ppb	172 cps	10.7 %
174Yb (KED)	0.005 ppb	440 cps	4.2 %
175Lu (KED)	-0.009 ppb	13,109 cps	1.0 %
205Tl (KED)	0.003 ppb	583 cps	9.7 %
208Pb (KED)	0.274 ppb	40,736 cps	1.7 %
209Bi (KED)	93.428 %	3,193,224 cps	0.9 %
232Th (KED)	0.031 ppb	7,750 cps	1.7 %
238U (KED)	0.008 ppb	2,336 cps	2.7 %

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 26

Analysis name: 80004jian

Analysis started at: 11/3/2021 3:50:54 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	107.509 %	3.7 %
9Be (KED)	0.007 ppb	173.2 %
11B (KED)	18.649 ppb	3.5 %
24Mg (KED)	69.915 ppb	4.9 %
27Al (KED)	94.089 ppb	3.4 %
45Sc (KED)	103.622 %	1.0 %
51V (KED)	0.174 ppb	2.4 %
52Cr (KED)	0.590 ppb	4.2 %
55Mn (KED)	3.512 ppb	1.7 %
56Fe (KED)	104.279 ppb	0.6 %
58Ni (KED)	0.817 ppb	1.4 %
59Co (KED)	0.061 ppb	1.5 %
63Cu (KED)	2.479 ppb	0.2 %
64Zn (KED)	52.064 ppb	1.2 %
69Ga (KED)	0.418 ppb	1.7 %
75As (KED)	0.079 ppb	13.3 %
80Se (KED)	-0.096 ppb	121.6 %
85Rb (KED)	0.738 ppb	3.8 %
88Sr (KED)	1.236 ppb	2.6 %
89Y (KED)	97.817 %	0.2 %
107Ag (KED)	0.017 ppb	4.3 %
114Cd (KED)	0.017 ppb	7.0 %
115In (KED)	94.212 %	1.0 %
133Cs (KED)	0.017 ppb	9.3 %
138Ba (KED)	1.375 ppb	1.3 %
139La (KED)	0.084 ppb	1.2 %
140Ce (KED)	0.179 ppb	3.8 %
141Pr (KED)	0.019 ppb	3.7 %
142Nd (KED)	0.113 ppb	1.4 %
152Sm (KED)	0.015 ppb	7.4 %
153Eu (KED)	0.003 ppb	11.2 %
158Gd (KED)	0.013 ppb	1.6 %
159Tb (KED)	96.646 %	1.2 %
164Dy (KED)	0.009 ppb	1.7 %
166Er (KED)	0.003 ppb	11.5 %
169Tm (KED)	0.001 ppb	18.2 %
174Yb (KED)	0.003 ppb	18.5 %
175Lu (KED)	-0.009 ppb	39.5 %
205Tl (KED)	0.003 ppb	12.5 %
208Pb (KED)	0.171 ppb	1.7 %
209Bi (KED)	93.117 %	2.2 %
232Th (KED)	0.023 ppb	0.8 %
238U (KED)	0.006 ppb	6.2 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	107.509 %	2,944 cps	3.7 %
9Be (KED)	0.007 ppb	1 cps	173.2 %
11B (KED)	18.649 ppb	2,909 cps	4.2 %
24Mg (KED)	69.915 ppb	40,288 cps	1.7 %
27Al (KED)	94.089 ppb	13,317 cps	2.4 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	103.622 %	52,184 cps	1.0 %
51V (KED)	0.174 ppb	1,608 cps	2.5 %
52Cr (KED)	0.590 ppb	8,596 cps	3.5 %
55Mn (KED)	3.512 ppb	24,892 cps	1.7 %
56Fe (KED)	104.279 ppb	1,345,534 cps	0.5 %
58Ni (KED)	0.817 ppb	13,800 cps	1.2 %
59Co (KED)	0.061 ppb	1,685 cps	2.2 %
63Cu (KED)	2.479 ppb	50,275 cps	0.1 %
64Zn (KED)	52.064 ppb	277,466 cps	1.4 %
69Ga (KED)	0.418 ppb	2,860 cps	1.7 %
75As (KED)	0.079 ppb	128 cps	12.0 %
80Se (KED)	-0.096 ppb	1,357 cps	3.9 %
85Rb (KED)	0.738 ppb	4,256 cps	3.8 %
88Sr (KED)	1.236 ppb	10,120 cps	2.7 %
89Y (KED)	97.817 %	435,257 cps	0.2 %
107Ag (KED)	0.017 ppb	872 cps	4.5 %
114Cd (KED)	0.017 ppb	361 cps	5.3 %
115In (KED)	94.212 %	756,098 cps	1.0 %
133Cs (KED)	0.017 ppb	506 cps	7.9 %
138Ba (KED)	1.375 ppb	56,558 cps	1.5 %
139La (KED)	0.084 ppb	7,213 cps	1.8 %
140Ce (KED)	0.179 ppb	21,195 cps	2.8 %
141Pr (KED)	0.019 ppb	2,247 cps	4.8 %
142Nd (KED)	0.113 ppb	5,453 cps	2.4 %
152Sm (KED)	0.015 ppb	630 cps	8.5 %
153Eu (KED)	0.003 ppb	261 cps	11.9 %
158Gd (KED)	0.013 ppb	737 cps	1.2 %
159Tb (KED)	96.646 %	3,880,397 cps	1.2 %
164Dy (KED)	0.009 ppb	581 cps	2.0 %
166Er (KED)	0.003 ppb	556 cps	4.6 %
169Tm (KED)	0.001 ppb	146 cps	18.4 %
174Yb (KED)	0.003 ppb	300 cps	15.8 %
175Lu (KED)	-0.009 ppb	13,232 cps	3.6 %
205Tl (KED)	0.003 ppb	487 cps	9.7 %
208Pb (KED)	0.171 ppb	28,810 cps	1.1 %
209Bi (KED)	93.117 %	3,182,619 cps	2.2 %
232Th (KED)	0.023 ppb	5,648 cps	1.5 %
238U (KED)	0.006 ppb	1,677 cps	5.6 %

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 27

Analysis name: 80130jian

Analysis started at: 11/3/2021 3:54:06 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	110.228 %	3.7 %
9Be (KED)	0.014 ppb	86.6 %
11B (KED)	27.744 ppb	6.7 %
24Mg (KED)	63.143 ppb	2.2 %
27Al (KED)	75.349 ppb	1.3 %
45Sc (KED)	104.491 %	0.9 %
51V (KED)	0.146 ppb	7.5 %
52Cr (KED)	0.533 ppb	1.9 %
55Mn (KED)	2.724 ppb	2.2 %
56Fe (KED)	100.806 ppb	0.5 %
58Ni (KED)	0.689 ppb	1.1 %
59Co (KED)	0.040 ppb	6.9 %
63Cu (KED)	2.444 ppb	1.4 %
64Zn (KED)	47.150 ppb	1.7 %
69Ga (KED)	0.368 ppb	3.4 %
75As (KED)	0.078 ppb	26.4 %
80Se (KED)	0.041 ppb	765.2 %
85Rb (KED)	0.780 ppb	0.5 %
88Sr (KED)	0.948 ppb	1.8 %
89Y (KED)	97.829 %	1.4 %
107Ag (KED)	0.023 ppb	10.0 %
114Cd (KED)	0.009 ppb	24.7 %
115In (KED)	92.747 %	0.7 %
133Cs (KED)	0.015 ppb	1.1 %
138Ba (KED)	1.203 ppb	2.7 %
139La (KED)	0.068 ppb	1.3 %
140Ce (KED)	0.139 ppb	1.9 %
141Pr (KED)	0.016 ppb	1.9 %
142Nd (KED)	0.086 ppb	8.4 %
152Sm (KED)	0.011 ppb	17.5 %
153Eu (KED)	0.002 ppb	33.3 %
158Gd (KED)	0.010 ppb	2.0 %
159Tb (KED)	98.654 %	1.2 %
164Dy (KED)	0.007 ppb	6.7 %
166Er (KED)	0.001 ppb	26.8 %
169Tm (KED)	0.001 ppb	17.4 %
174Yb (KED)	0.003 ppb	19.6 %
175Lu (KED)	-0.013 ppb	11.4 %
205Tl (KED)	0.003 ppb	5.0 %
208Pb (KED)	0.194 ppb	2.8 %
209Bi (KED)	93.028 %	0.7 %
232Th (KED)	0.019 ppb	2.9 %
238U (KED)	0.005 ppb	3.0 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	110.228 %	3,018 cps	3.7 %
9Be (KED)	0.014 ppb	2 cps	86.6 %
11B (KED)	27.744 ppb	3,581 cps	3.6 %
24Mg (KED)	63.143 ppb	37,365 cps	2.6 %
27Al (KED)	75.349 ppb	10,820 cps	0.4 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	104.491 %	52,622 cps	0.9 %
51V (KED)	0.146 ppb	1,360 cps	6.9 %
52Cr (KED)	0.533 ppb	7,836 cps	2.6 %
55Mn (KED)	2.724 ppb	19,493 cps	2.5 %
56Fe (KED)	100.806 ppb	1,311,793 cps	0.4 %
58Ni (KED)	0.689 ppb	11,784 cps	0.3 %
59Co (KED)	0.040 ppb	1,131 cps	6.9 %
63Cu (KED)	2.444 ppb	49,577 cps	1.4 %
64Zn (KED)	47.150 ppb	252,362 cps	0.5 %
69Ga (KED)	0.368 ppb	2,540 cps	3.8 %
75As (KED)	0.078 ppb	127 cps	25.4 %
80Se (KED)	0.041 ppb	1,418 cps	11.0 %
85Rb (KED)	0.780 ppb	4,501 cps	1.9 %
88Sr (KED)	0.948 ppb	7,809 cps	0.5 %
89Y (KED)	97.829 %	435,312 cps	1.4 %
107Ag (KED)	0.023 ppb	1,168 cps	9.0 %
114Cd (KED)	0.009 ppb	212 cps	20.4 %
115In (KED)	92.747 %	744,343 cps	0.7 %
133Cs (KED)	0.015 ppb	447 cps	1.3 %
138Ba (KED)	1.203 ppb	50,951 cps	1.4 %
139La (KED)	0.068 ppb	5,989 cps	0.5 %
140Ce (KED)	0.139 ppb	17,031 cps	2.5 %
141Pr (KED)	0.016 ppb	1,911 cps	2.8 %
142Nd (KED)	0.086 ppb	4,327 cps	6.7 %
152Sm (KED)	0.011 ppb	478 cps	17.8 %
153Eu (KED)	0.002 ppb	207 cps	30.6 %
158Gd (KED)	0.010 ppb	602 cps	2.8 %
159Tb (KED)	98.654 %	3,961,012 cps	1.2 %
164Dy (KED)	0.007 ppb	491 cps	5.1 %
166Er (KED)	0.001 ppb	416 cps	3.2 %
169Tm (KED)	0.001 ppb	134 cps	17.4 %
174Yb (KED)	0.003 ppb	302 cps	17.9 %
175Lu (KED)	-0.013 ppb	13,001 cps	1.2 %
205Tl (KED)	0.003 ppb	496 cps	4.7 %
208Pb (KED)	0.194 ppb	31,342 cps	1.9 %
209Bi (KED)	93.028 %	3,179,567 cps	0.7 %
232Th (KED)	0.019 ppb	4,839 cps	2.9 %
238U (KED)	0.005 ppb	1,475 cps	2.9 %

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 28

Analysis name: 80010jian

Analysis started at: 11/3/2021 3:57:25 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	110.228 %	4.2 %
9Be (KED)	0.000 ppb	
11B (KED)	-1.720 ppb	101.1 %
24Mg (KED)	59.304 ppb	4.0 %
27Al (KED)	79.158 ppb	1.3 %
45Sc (KED)	103.833 %	0.6 %
51V (KED)	0.152 ppb	6.9 %
52Cr (KED)	0.594 ppb	1.9 %
55Mn (KED)	3.412 ppb	1.4 %
56Fe (KED)	85.322 ppb	1.2 %
58Ni (KED)	0.552 ppb	1.5 %
59Co (KED)	0.043 ppb	5.0 %
63Cu (KED)	3.101 ppb	2.1 %
64Zn (KED)	48.480 ppb	0.8 %
69Ga (KED)	0.346 ppb	2.3 %
75As (KED)	0.060 ppb	17.4 %
80Se (KED)	-0.097 ppb	144.0 %
85Rb (KED)	0.607 ppb	1.7 %
88Sr (KED)	1.042 ppb	2.2 %
89Y (KED)	98.925 %	1.1 %
107Ag (KED)	0.008 ppb	11.8 %
114Cd (KED)	0.011 ppb	21.0 %
115In (KED)	94.405 %	1.5 %
133Cs (KED)	0.013 ppb	7.3 %
138Ba (KED)	1.152 ppb	1.1 %
139La (KED)	0.076 ppb	3.9 %
140Ce (KED)	0.145 ppb	2.5 %
141Pr (KED)	0.017 ppb	2.7 %
142Nd (KED)	0.091 ppb	2.2 %
152Sm (KED)	0.012 ppb	8.7 %
153Eu (KED)	0.002 ppb	21.5 %
158Gd (KED)	0.011 ppb	1.8 %
159Tb (KED)	96.303 %	0.2 %
164Dy (KED)	0.006 ppb	3.3 %
166Er (KED)	0.001 ppb	17.0 %
169Tm (KED)	0.001 ppb	24.4 %
174Yb (KED)	0.003 ppb	2.2 %
175Lu (KED)	-0.010 ppb	33.5 %
205Tl (KED)	0.002 ppb	5.9 %
208Pb (KED)	0.176 ppb	1.2 %
209Bi (KED)	92.594 %	0.4 %
232Th (KED)	0.020 ppb	1.3 %
238U (KED)	0.005 ppb	15.8 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	110.228 %	3,018 cps	4.2 %
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	-1.720 ppb	1,638 cps	4.3 %
24Mg (KED)	59.304 ppb	35,088 cps	0.9 %
27Al (KED)	79.158 ppb	11,280 cps	0.7 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	103.833 %	52,290 cps	0.6 %
51V (KED)	0.152 ppb	1,410 cps	6.3 %
52Cr (KED)	0.594 ppb	8,671 cps	2.4 %
55Mn (KED)	3.412 ppb	24,237 cps	1.6 %
56Fe (KED)	85.322 ppb	1,104,022 cps	0.7 %
58Ni (KED)	0.552 ppb	9,444 cps	1.9 %
59Co (KED)	0.043 ppb	1,189 cps	4.5 %
63Cu (KED)	3.101 ppb	63,337 cps	0.9 %
64Zn (KED)	48.480 ppb	262,085 cps	0.6 %
69Ga (KED)	0.346 ppb	2,421 cps	3.1 %
75As (KED)	0.060 ppb	100 cps	14.5 %
80Se (KED)	-0.097 ppb	1,371 cps	3.4 %
85Rb (KED)	0.607 ppb	3,547 cps	2.4 %
88Sr (KED)	1.042 ppb	8,657 cps	1.4 %
89Y (KED)	98.925 %	440,192 cps	1.1 %
107Ag (KED)	0.008 ppb	436 cps	11.5 %
114Cd (KED)	0.011 ppb	241 cps	16.0 %
115In (KED)	94.405 %	757,651 cps	1.5 %
133Cs (KED)	0.013 ppb	392 cps	6.4 %
138Ba (KED)	1.152 ppb	47,784 cps	0.8 %
139La (KED)	0.076 ppb	6,475 cps	4.0 %
140Ce (KED)	0.145 ppb	17,291 cps	2.1 %
141Pr (KED)	0.017 ppb	2,026 cps	2.7 %
142Nd (KED)	0.091 ppb	4,433 cps	2.3 %
152Sm (KED)	0.012 ppb	489 cps	8.6 %
153Eu (KED)	0.002 ppb	209 cps	20.3 %
158Gd (KED)	0.011 ppb	599 cps	1.6 %
159Tb (KED)	96.303 %	3,866,646 cps	0.2 %
164Dy (KED)	0.006 ppb	390 cps	3.0 %
166Er (KED)	0.001 ppb	422 cps	3.3 %
169Tm (KED)	0.001 ppb	132 cps	22.9 %
174Yb (KED)	0.003 ppb	254 cps	2.0 %
175Lu (KED)	-0.010 ppb	13,090 cps	3.9 %
205Tl (KED)	0.002 ppb	438 cps	5.8 %
208Pb (KED)	0.176 ppb	29,190 cps	0.7 %
209Bi (KED)	92.594 %	3,164,743 cps	0.4 %
232Th (KED)	0.020 ppb	4,910 cps	1.3 %
238U (KED)	0.005 ppb	1,506 cps	14.4 %

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 29

Analysis name: 603104jian

Analysis started at: 11/3/2021 4:00:39 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	104.018 %	4.5 %
9Be (KED)	0.015 ppb	86.8 %
11B (KED)	-5.311 ppb	13.6 %
24Mg (KED)	119.787 ppb	3.4 %
27Al (KED)	215.776 ppb	2.0 %
45Sc (KED)	102.105 %	0.8 %
51V (KED)	0.396 ppb	2.8 %
52Cr (KED)	0.960 ppb	1.2 %
55Mn (KED)	7.699 ppb	1.4 %
56Fe (KED)	230.261 ppb	0.7 %
58Ni (KED)	1.195 ppb	0.8 %
59Co (KED)	0.114 ppb	1.6 %
63Cu (KED)	2.199 ppb	0.8 %
64Zn (KED)	63.198 ppb	1.8 %
69Ga (KED)	0.822 ppb	2.0 %
75As (KED)	0.160 ppb	13.0 %
80Se (KED)	-0.070 ppb	303.0 %
85Rb (KED)	0.434 ppb	3.7 %
88Sr (KED)	1.763 ppb	2.5 %
89Y (KED)	96.950 %	1.2 %
107Ag (KED)	0.038 ppb	1.8 %
114Cd (KED)	0.012 ppb	3.3 %
115In (KED)	93.318 %	0.7 %
133Cs (KED)	0.038 ppb	4.2 %
138Ba (KED)	2.543 ppb	2.1 %
139La (KED)	0.204 ppb	1.1 %
140Ce (KED)	0.429 ppb	2.8 %
141Pr (KED)	0.048 ppb	5.2 %
142Nd (KED)	0.275 ppb	1.1 %
152Sm (KED)	0.033 ppb	5.8 %
153Eu (KED)	0.007 ppb	8.5 %
158Gd (KED)	0.031 ppb	4.9 %
159Tb (KED)	96.211 %	1.6 %
164Dy (KED)	0.022 ppb	0.8 %
166Er (KED)	0.008 ppb	3.3 %
169Tm (KED)	0.001 ppb	3.8 %
174Yb (KED)	0.009 ppb	2.8 %
175Lu (KED)	-0.012 ppb	21.6 %
205Tl (KED)	0.004 ppb	6.0 %
208Pb (KED)	0.406 ppb	1.6 %
209Bi (KED)	92.214 %	1.2 %
232Th (KED)	0.054 ppb	2.4 %
238U (KED)	0.014 ppb	1.6 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	104.018 %	2,848 cps	4.5 %
9Be (KED)	0.015 ppb	2 cps	86.6 %
11B (KED)	-5.311 ppb	1,323 cps	1.1 %
24Mg (KED)	119.787 ppb	66,588 cps	1.9 %
27Al (KED)	215.776 ppb	29,689 cps	2.0 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	102.105 %	51,420 cps	0.8 %
51V (KED)	0.396 ppb	3,595 cps	2.7 %
52Cr (KED)	0.960 ppb	13,708 cps	0.5 %
55Mn (KED)	7.699 ppb	53,663 cps	0.8 %
56Fe (KED)	230.261 ppb	2,921,896 cps	0.3 %
58Ni (KED)	1.195 ppb	19,747 cps	1.4 %
59Co (KED)	0.114 ppb	3,060 cps	1.0 %
63Cu (KED)	2.199 ppb	44,303 cps	1.6 %
64Zn (KED)	63.198 ppb	331,314 cps	0.7 %
69Ga (KED)	0.822 ppb	5,412 cps	0.9 %
75As (KED)	0.160 ppb	244 cps	12.4 %
80Se (KED)	-0.070 ppb	1,357 cps	7.7 %
85Rb (KED)	0.434 ppb	2,488 cps	2.5 %
88Sr (KED)	1.763 ppb	14,219 cps	3.0 %
89Y (KED)	96.950 %	431,402 cps	1.2 %
107Ag (KED)	0.038 ppb	1,955 cps	1.2 %
114Cd (KED)	0.012 ppb	254 cps	2.0 %
115In (KED)	93.318 %	748,922 cps	0.7 %
133Cs (KED)	0.038 ppb	1,087 cps	4.3 %
138Ba (KED)	2.543 ppb	101,223 cps	1.4 %
139La (KED)	0.204 ppb	17,240 cps	2.6 %
140Ce (KED)	0.429 ppb	48,924 cps	2.1 %
141Pr (KED)	0.048 ppb	5,546 cps	4.6 %
142Nd (KED)	0.275 ppb	12,872 cps	0.5 %
152Sm (KED)	0.033 ppb	1,350 cps	5.5 %
153Eu (KED)	0.007 ppb	592 cps	7.0 %
158Gd (KED)	0.031 ppb	1,713 cps	3.2 %
159Tb (KED)	96.211 %	3,862,956 cps	1.6 %
164Dy (KED)	0.022 ppb	1,365 cps	2.2 %
166Er (KED)	0.008 ppb	952 cps	2.8 %
169Tm (KED)	0.001 ppb	312 cps	2.5 %
174Yb (KED)	0.009 ppb	760 cps	3.9 %
175Lu (KED)	-0.012 ppb	12,850 cps	1.2 %
205Tl (KED)	0.004 ppb	676 cps	6.6 %
208Pb (KED)	0.406 ppb	55,219 cps	0.2 %
209Bi (KED)	92.214 %	3,151,742 cps	1.2 %
232Th (KED)	0.054 ppb	13,052 cps	1.5 %
238U (KED)	0.014 ppb	3,801 cps	0.3 %

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 30

Analysis name: 80190jian

Analysis started at: 11/3/2021 4:03:51 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	103.815 %	2.3 %
9Be (KED)	0.000 ppb	
11B (KED)	11.218 ppb	10.8 %
24Mg (KED)	80.750 ppb	3.5 %
27Al (KED)	123.690 ppb	3.6 %
45Sc (KED)	100.926 %	1.8 %
51V (KED)	0.221 ppb	5.8 %
52Cr (KED)	1.228 ppb	1.2 %
55Mn (KED)	3.048 ppb	1.9 %
56Fe (KED)	145.346 ppb	2.0 %
58Ni (KED)	0.772 ppb	3.7 %
59Co (KED)	0.061 ppb	4.4 %
63Cu (KED)	1.978 ppb	1.1 %
64Zn (KED)	54.556 ppb	0.9 %
69Ga (KED)	0.457 ppb	8.5 %
75As (KED)	0.181 ppb	3.2 %
80Se (KED)	-0.035 ppb	550.7 %
85Rb (KED)	0.621 ppb	5.4 %
88Sr (KED)	1.598 ppb	4.6 %
89Y (KED)	93.637 %	1.4 %
107Ag (KED)	0.013 ppb	3.8 %
114Cd (KED)	0.004 ppb	7.6 %
115In (KED)	92.071 %	1.3 %
133Cs (KED)	0.023 ppb	9.5 %
138Ba (KED)	1.446 ppb	0.3 %
139La (KED)	0.167 ppb	1.1 %
140Ce (KED)	0.329 ppb	1.9 %
141Pr (KED)	0.037 ppb	3.1 %
142Nd (KED)	0.199 ppb	2.9 %
152Sm (KED)	0.027 ppb	10.8 %
153Eu (KED)	0.005 ppb	9.9 %
158Gd (KED)	0.023 ppb	7.8 %
159Tb (KED)	93.743 %	1.2 %
164Dy (KED)	0.016 ppb	1.2 %
166Er (KED)	0.005 ppb	15.3 %
169Tm (KED)	0.001 ppb	17.0 %
174Yb (KED)	0.005 ppb	14.0 %
175Lu (KED)	-0.010 ppb	22.8 %
205Tl (KED)	0.004 ppb	10.8 %
208Pb (KED)	0.252 ppb	2.8 %
209Bi (KED)	92.099 %	1.0 %
232Th (KED)	0.034 ppb	2.4 %
238U (KED)	0.010 ppb	1.6 %

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	103.815 %	2,843 cps	2.3 %
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	11.218 ppb	2,347 cps	1.5 %
24Mg (KED)	80.750 ppb	44,914 cps	1.2 %
27Al (KED)	123.690 ppb	16,949 cps	1.8 %

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	100.926 %	50,827 cps	1.8 %
51V (KED)	0.221 ppb	1,983 cps	5.7 %
52Cr (KED)	1.228 ppb	17,303 cps	2.1 %
55Mn (KED)	3.048 ppb	21,050 cps	0.8 %
56Fe (KED)	145.346 ppb	1,824,463 cps	0.7 %
58Ni (KED)	0.772 ppb	12,718 cps	1.9 %
59Co (KED)	0.061 ppb	1,633 cps	2.7 %
63Cu (KED)	1.978 ppb	38,575 cps	0.7 %
64Zn (KED)	54.556 ppb	277,809 cps	2.2 %
69Ga (KED)	0.457 ppb	2,976 cps	7.5 %
75As (KED)	0.181 ppb	266 cps	1.9 %
80Se (KED)	-0.035 ppb	1,323 cps	4.7 %
85Rb (KED)	0.621 ppb	3,434 cps	4.4 %
88Sr (KED)	1.598 ppb	12,464 cps	3.4 %
89Y (KED)	93.637 %	416,661 cps	1.4 %
107Ag (KED)	0.013 ppb	690 cps	4.8 %
114Cd (KED)	0.004 ppb	108 cps	4.7 %
115In (KED)	92.071 %	738,919 cps	1.3 %
133Cs (KED)	0.023 ppb	653 cps	8.0 %
138Ba (KED)	1.446 ppb	57,510 cps	1.4 %
139La (KED)	0.167 ppb	13,774 cps	1.7 %
140Ce (KED)	0.329 ppb	36,834 cps	2.4 %
141Pr (KED)	0.037 ppb	4,205 cps	3.8 %
142Nd (KED)	0.199 ppb	9,159 cps	3.9 %
152Sm (KED)	0.027 ppb	1,078 cps	10.6 %
153Eu (KED)	0.005 ppb	436 cps	10.9 %
158Gd (KED)	0.023 ppb	1,230 cps	6.6 %
159Tb (KED)	93.743 %	3,763,857 cps	1.2 %
164Dy (KED)	0.016 ppb	973 cps	0.0 %
166Er (KED)	0.005 ppb	680 cps	7.4 %
169Tm (KED)	0.001 ppb	216 cps	17.0 %
174Yb (KED)	0.005 ppb	454 cps	13.3 %
175Lu (KED)	-0.010 ppb	12,720 cps	1.5 %
205Tl (KED)	0.004 ppb	668 cps	9.7 %
208Pb (KED)	0.252 ppb	37,724 cps	2.0 %
209Bi (KED)	92.099 %	3,147,804 cps	1.0 %
232Th (KED)	0.034 ppb	8,279 cps	2.7 %
238U (KED)	0.010 ppb	2,819 cps	2.4 %

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 31

Analysis name: 805193jian

Analysis started at: 11/3/2021 4:07:09 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	100.203 %	
9Be (KED)	0.000 ppb	
11B (KED)	-7.862 ppb	
24Mg (KED)	122.737 ppb	
27Al (KED)	186.846 ppb	
45Sc (KED)	99.344 %	
51V (KED)	0.362 ppb	
52Cr (KED)	0.770 ppb	
55Mn (KED)	7.020 ppb	
56Fe (KED)	200.494 ppb	
58Ni (KED)	1.136 ppb	
59Co (KED)	0.108 ppb	
63Cu (KED)	2.840 ppb	
64Zn (KED)	52.906 ppb	
69Ga (KED)	0.776 ppb	
75As (KED)	0.154 ppb	
80Se (KED)	0.240 ppb	
85Rb (KED)	0.497 ppb	
88Sr (KED)	2.020 ppb	
89Y (KED)	92.003 %	
107Ag (KED)	0.030 ppb	
114Cd (KED)	0.018 ppb	
115In (KED)	87.324 %	
133Cs (KED)	0.035 ppb	
138Ba (KED)	2.440 ppb	
139La (KED)	0.179 ppb	
140Ce (KED)	0.367 ppb	
141Pr (KED)	0.043 ppb	
142Nd (KED)	0.232 ppb	
152Sm (KED)	0.030 ppb	
153Eu (KED)	0.006 ppb	
158Gd (KED)	0.029 ppb	
159Tb (KED)	90.161 %	
164Dy (KED)	0.020 ppb	
166Er (KED)	0.005 ppb	
169Tm (KED)	0.002 ppb	
174Yb (KED)	0.008 ppb	
175Lu (KED)	-0.011 ppb	
205Tl (KED)	0.005 ppb	
208Pb (KED)	0.418 ppb	
209Bi (KED)	87.502 %	
232Th (KED)	0.050 ppb	
238U (KED)	0.014 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	100.203 %	2,744 cps	
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	-7.862 ppb	1,123 cps	
24Mg (KED)	122.737 ppb	65,780 cps	
27Al (KED)	186.846 ppb	25,055 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	99.344 %	50,030 cps	
51V (KED)	0.362 ppb	3,197 cps	
52Cr (KED)	0.770 ppb	10,721 cps	
55Mn (KED)	7.020 ppb	47,614 cps	
56Fe (KED)	200.494 ppb	2,476,070 cps	
58Ni (KED)	1.136 ppb	18,270 cps	
59Co (KED)	0.108 ppb	2,820 cps	
63Cu (KED)	2.840 ppb	54,040 cps	
64Zn (KED)	52.906 ppb	265,012 cps	
69Ga (KED)	0.776 ppb	4,854 cps	
75As (KED)	0.154 ppb	223 cps	
80Se (KED)	0.240 ppb	1,413 cps	
85Rb (KED)	0.497 ppb	2,704 cps	
88Sr (KED)	2.020 ppb	15,430 cps	
89Y (KED)	92.003 %	409,387 cps	
107Ag (KED)	0.030 ppb	1,433 cps	
114Cd (KED)	0.018 ppb	350 cps	
115In (KED)	87.324 %	700,823 cps	
133Cs (KED)	0.035 ppb	947 cps	
138Ba (KED)	2.440 ppb	91,132 cps	
139La (KED)	0.179 ppb	14,208 cps	
140Ce (KED)	0.367 ppb	39,322 cps	
141Pr (KED)	0.043 ppb	4,708 cps	
142Nd (KED)	0.232 ppb	10,238 cps	
152Sm (KED)	0.030 ppb	1,147 cps	
153Eu (KED)	0.006 ppb	470 cps	
158Gd (KED)	0.029 ppb	1,487 cps	
159Tb (KED)	90.161 %	3,620,021 cps	
164Dy (KED)	0.020 ppb	1,147 cps	
166Er (KED)	0.005 ppb	673 cps	
169Tm (KED)	0.002 ppb	350 cps	
174Yb (KED)	0.008 ppb	673 cps	
175Lu (KED)	-0.011 ppb	12,183 cps	
205Tl (KED)	0.005 ppb	807 cps	
208Pb (KED)	0.418 ppb	53,679 cps	
209Bi (KED)	87.502 %	2,990,711 cps	
232Th (KED)	0.050 ppb	11,505 cps	
238U (KED)	0.014 ppb	3,507 cps	

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 32

Analysis name: 80056jian

Analysis started at: 11/3/2021 4:09:01 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	101.664 %	
9Be (KED)	0.046 ppb	
11B (KED)	9.861 ppb	
24Mg (KED)	66.044 ppb	
27Al (KED)	101.713 ppb	
45Sc (KED)	97.836 %	
51V (KED)	0.194 ppb	
52Cr (KED)	0.762 ppb	
55Mn (KED)	2.528 ppb	
56Fe (KED)	117.842 ppb	
58Ni (KED)	0.963 ppb	
59Co (KED)	0.049 ppb	
63Cu (KED)	2.266 ppb	
64Zn (KED)	53.243 ppb	
69Ga (KED)	0.398 ppb	
75As (KED)	0.103 ppb	
80Se (KED)	-0.057 ppb	
85Rb (KED)	0.437 ppb	
88Sr (KED)	1.057 ppb	
89Y (KED)	96.124 %	
107Ag (KED)	0.014 ppb	
114Cd (KED)	0.003 ppb	
115In (KED)	91.295 %	
133Cs (KED)	0.018 ppb	
138Ba (KED)	1.211 ppb	
139La (KED)	0.100 ppb	
140Ce (KED)	0.202 ppb	
141Pr (KED)	0.024 ppb	
142Nd (KED)	0.124 ppb	
152Sm (KED)	0.015 ppb	
153Eu (KED)	0.003 ppb	
158Gd (KED)	0.016 ppb	
159Tb (KED)	95.364 %	
164Dy (KED)	0.011 ppb	
166Er (KED)	0.004 ppb	
169Tm (KED)	0.001 ppb	
174Yb (KED)	0.004 ppb	
175Lu (KED)	-0.012 ppb	
205Tl (KED)	0.003 ppb	
208Pb (KED)	0.183 ppb	
209Bi (KED)	90.561 %	
232Th (KED)	0.031 ppb	
238U (KED)	0.008 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	101.664 %	2,784 cps	
9Be (KED)	0.046 ppb	7 cps	
11B (KED)	9.861 ppb	2,217 cps	
24Mg (KED)	66.044 ppb	36,045 cps	
27Al (KED)	101.713 ppb	13,571 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	97.836 %	49,271 cps	
51V (KED)	0.194 ppb	1,690 cps	
52Cr (KED)	0.762 ppb	10,451 cps	
55Mn (KED)	2.528 ppb	16,945 cps	
56Fe (KED)	117.842 ppb	1,435,095 cps	
58Ni (KED)	0.963 ppb	15,299 cps	
59Co (KED)	0.049 ppb	1,293 cps	
63Cu (KED)	2.266 ppb	45,239 cps	
64Zn (KED)	53.243 ppb	278,578 cps	
69Ga (KED)	0.398 ppb	2,680 cps	
75As (KED)	0.103 ppb	160 cps	
80Se (KED)	-0.057 ppb	1,350 cps	
85Rb (KED)	0.437 ppb	2,487 cps	
88Sr (KED)	1.057 ppb	8,536 cps	
89Y (KED)	96.124 %	427,726 cps	
107Ag (KED)	0.014 ppb	713 cps	
114Cd (KED)	0.003 ppb	100 cps	
115In (KED)	91.295 %	732,691 cps	
133Cs (KED)	0.018 ppb	530 cps	
138Ba (KED)	1.211 ppb	49,579 cps	
139La (KED)	0.100 ppb	8,446 cps	
140Ce (KED)	0.202 ppb	23,479 cps	
141Pr (KED)	0.024 ppb	2,760 cps	
142Nd (KED)	0.124 ppb	5,881 cps	
152Sm (KED)	0.015 ppb	623 cps	
153Eu (KED)	0.003 ppb	260 cps	
158Gd (KED)	0.016 ppb	900 cps	
159Tb (KED)	95.364 %	3,828,937 cps	
164Dy (KED)	0.011 ppb	690 cps	
166Er (KED)	0.004 ppb	603 cps	
169Tm (KED)	0.001 ppb	157 cps	
174Yb (KED)	0.004 ppb	367 cps	
175Lu (KED)	-0.012 ppb	12,720 cps	
205Tl (KED)	0.003 ppb	490 cps	
208Pb (KED)	0.183 ppb	29,345 cps	
209Bi (KED)	90.561 %	3,095,236 cps	
232Th (KED)	0.031 ppb	7,419 cps	
238U (KED)	0.008 ppb	2,157 cps	

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 33

Analysis name: 80089jian

Analysis started at: 11/3/2021 4:10:58 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	105.561 %	
9Be (KED)	0.000 ppb	
11B (KED)	31.816 ppb	
24Mg (KED)	74.001 ppb	
27Al (KED)	102.099 ppb	
45Sc (KED)	96.421 %	
51V (KED)	0.196 ppb	
52Cr (KED)	0.744 ppb	
55Mn (KED)	4.694 ppb	
56Fe (KED)	118.052 ppb	
58Ni (KED)	1.085 ppb	
59Co (KED)	0.063 ppb	
63Cu (KED)	2.585 ppb	
64Zn (KED)	52.009 ppb	
69Ga (KED)	0.473 ppb	
75As (KED)	0.101 ppb	
80Se (KED)	-0.436 ppb	
85Rb (KED)	0.482 ppb	
88Sr (KED)	1.201 ppb	
89Y (KED)	91.970 %	
107Ag (KED)	0.016 ppb	
114Cd (KED)	0.012 ppb	
115In (KED)	89.492 %	
133Cs (KED)	0.022 ppb	
138Ba (KED)	1.473 ppb	
139La (KED)	0.107 ppb	
140Ce (KED)	0.218 ppb	
141Pr (KED)	0.028 ppb	
142Nd (KED)	0.143 ppb	
152Sm (KED)	0.020 ppb	
153Eu (KED)	0.004 ppb	
158Gd (KED)	0.016 ppb	
159Tb (KED)	88.827 %	
164Dy (KED)	0.012 ppb	
166Er (KED)	0.003 ppb	
169Tm (KED)	0.001 ppb	
174Yb (KED)	0.004 ppb	
175Lu (KED)	-0.001 ppb	
205Tl (KED)	0.004 ppb	
208Pb (KED)	0.183 ppb	
209Bi (KED)	87.993 %	
232Th (KED)	0.027 ppb	
238U (KED)	0.007 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	105.561 %	2,890 cps	
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	31.816 ppb	3,687 cps	
24Mg (KED)	74.001 ppb	41,900 cps	
27Al (KED)	102.099 ppb	13,424 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	96.421 %	48,558 cps	
51V (KED)	0.196 ppb	1,687 cps	
52Cr (KED)	0.744 ppb	10,051 cps	
55Mn (KED)	4.694 ppb	30,932 cps	
56Fe (KED)	118.052 ppb	1,416,843 cps	
58Ni (KED)	1.085 ppb	16,952 cps	
59Co (KED)	0.063 ppb	1,623 cps	
63Cu (KED)	2.585 ppb	49,250 cps	
64Zn (KED)	52.009 ppb	260,613 cps	
69Ga (KED)	0.473 ppb	3,024 cps	
75As (KED)	0.101 ppb	150 cps	
80Se (KED)	-0.436 ppb	1,137 cps	
85Rb (KED)	0.482 ppb	2,624 cps	
88Sr (KED)	1.201 ppb	9,250 cps	
89Y (KED)	91.970 %	409,244 cps	
107Ag (KED)	0.016 ppb	787 cps	
114Cd (KED)	0.012 ppb	247 cps	
115In (KED)	89.492 %	718,219 cps	
133Cs (KED)	0.022 ppb	620 cps	
138Ba (KED)	1.473 ppb	55,464 cps	
139La (KED)	0.107 ppb	8,373 cps	
140Ce (KED)	0.218 ppb	23,445 cps	
141Pr (KED)	0.028 ppb	2,970 cps	
142Nd (KED)	0.143 ppb	6,302 cps	
152Sm (KED)	0.020 ppb	757 cps	
153Eu (KED)	0.004 ppb	317 cps	
158Gd (KED)	0.016 ppb	823 cps	
159Tb (KED)	88.827 %	3,566,474 cps	
164Dy (KED)	0.012 ppb	717 cps	
166Er (KED)	0.003 ppb	537 cps	
169Tm (KED)	0.001 ppb	183 cps	
174Yb (KED)	0.004 ppb	360 cps	
175Lu (KED)	-0.001 ppb	13,224 cps	
205Tl (KED)	0.004 ppb	610 cps	
208Pb (KED)	0.183 ppb	28,546 cps	
209Bi (KED)	87.993 %	3,007,487 cps	
232Th (KED)	0.027 ppb	6,425 cps	
238U (KED)	0.007 ppb	1,877 cps	

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 34

Analysis name: 855013jian

Analysis started at: 11/3/2021 4:12:56 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	102.395 %	
9Be (KED)	0.000 ppb	
11B (KED)	0.015 ppb	
24Mg (KED)	100.430 ppb	
27Al (KED)	133.475 ppb	
45Sc (KED)	100.062 %	
51V (KED)	0.237 ppb	
52Cr (KED)	0.857 ppb	
55Mn (KED)	4.897 ppb	
56Fe (KED)	140.579 ppb	
58Ni (KED)	0.985 ppb	
59Co (KED)	0.068 ppb	
63Cu (KED)	1.895 ppb	
64Zn (KED)	53.607 ppb	
69Ga (KED)	0.542 ppb	
75As (KED)	0.111 ppb	
80Se (KED)	-0.153 ppb	
85Rb (KED)	0.496 ppb	
88Sr (KED)	1.496 ppb	
89Y (KED)	95.475 %	
107Ag (KED)	0.016 ppb	
114Cd (KED)	0.009 ppb	
115In (KED)	91.084 %	
133Cs (KED)	0.026 ppb	
138Ba (KED)	1.673 ppb	
139La (KED)	0.120 ppb	
140Ce (KED)	0.235 ppb	
141Pr (KED)	0.028 ppb	
142Nd (KED)	0.155 ppb	
152Sm (KED)	0.020 ppb	
153Eu (KED)	0.004 ppb	
158Gd (KED)	0.018 ppb	
159Tb (KED)	97.220 %	
164Dy (KED)	0.012 ppb	
166Er (KED)	0.003 ppb	
169Tm (KED)	0.001 ppb	
174Yb (KED)	0.005 ppb	
175Lu (KED)	-0.011 ppb	
205Tl (KED)	0.004 ppb	
208Pb (KED)	0.219 ppb	
209Bi (KED)	92.234 %	
232Th (KED)	0.033 ppb	
238U (KED)	0.008 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	102.395 %	2,804 cps	
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	0.015 ppb	1,630 cps	
24Mg (KED)	100.430 ppb	55,054 cps	
27Al (KED)	133.475 ppb	18,116 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	100.062 %	50,391 cps	
51V (KED)	0.237 ppb	2,114 cps	
52Cr (KED)	0.857 ppb	11,999 cps	
55Mn (KED)	4.897 ppb	33,485 cps	
56Fe (KED)	140.579 ppb	1,750,055 cps	
58Ni (KED)	0.985 ppb	15,994 cps	
59Co (KED)	0.068 ppb	1,810 cps	
63Cu (KED)	1.895 ppb	37,727 cps	
64Zn (KED)	53.607 ppb	278,509 cps	
69Ga (KED)	0.542 ppb	3,571 cps	
75As (KED)	0.111 ppb	170 cps	
80Se (KED)	-0.153 ppb	1,300 cps	
85Rb (KED)	0.496 ppb	2,800 cps	
88Sr (KED)	1.496 ppb	11,909 cps	
89Y (KED)	95.475 %	424,841 cps	
107Ag (KED)	0.016 ppb	817 cps	
114Cd (KED)	0.009 ppb	203 cps	
115In (KED)	91.084 %	731,000 cps	
133Cs (KED)	0.026 ppb	747 cps	
138Ba (KED)	1.673 ppb	68,478 cps	
139La (KED)	0.120 ppb	10,288 cps	
140Ce (KED)	0.235 ppb	27,664 cps	
141Pr (KED)	0.028 ppb	3,310 cps	
142Nd (KED)	0.155 ppb	7,459 cps	
152Sm (KED)	0.020 ppb	830 cps	
153Eu (KED)	0.004 ppb	377 cps	
158Gd (KED)	0.018 ppb	1,020 cps	
159Tb (KED)	97.220 %	3,903,448 cps	
164Dy (KED)	0.012 ppb	753 cps	
166Er (KED)	0.003 ppb	563 cps	
169Tm (KED)	0.001 ppb	203 cps	
174Yb (KED)	0.005 ppb	437 cps	
175Lu (KED)	-0.011 ppb	13,130 cps	
205Tl (KED)	0.004 ppb	750 cps	
208Pb (KED)	0.219 ppb	33,966 cps	
209Bi (KED)	92.234 %	3,152,436 cps	
232Th (KED)	0.033 ppb	8,153 cps	
238U (KED)	0.008 ppb	2,144 cps	

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 35

Analysis name: 80138jian

Analysis started at: 11/3/2021 4:14:59 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	104.343 %	
9Be (KED)	0.000 ppb	
11B (KED)	2.992 ppb	
24Mg (KED)	82.565 ppb	
27Al (KED)	113.375 ppb	
45Sc (KED)	99.723 %	
51V (KED)	0.239 ppb	
52Cr (KED)	0.646 ppb	
55Mn (KED)	4.257 ppb	
56Fe (KED)	142.713 ppb	
58Ni (KED)	1.135 ppb	
59Co (KED)	0.069 ppb	
63Cu (KED)	2.367 ppb	
64Zn (KED)	50.001 ppb	
69Ga (KED)	0.501 ppb	
75As (KED)	0.095 ppb	
80Se (KED)	-0.061 ppb	
85Rb (KED)	0.782 ppb	
88Sr (KED)	1.208 ppb	
89Y (KED)	93.383 %	
107Ag (KED)	0.018 ppb	
114Cd (KED)	0.008 ppb	
115In (KED)	88.889 %	
133Cs (KED)	0.025 ppb	
138Ba (KED)	1.528 ppb	
139La (KED)	0.109 ppb	
140Ce (KED)	0.223 ppb	
141Pr (KED)	0.024 ppb	
142Nd (KED)	0.133 ppb	
152Sm (KED)	0.017 ppb	
153Eu (KED)	0.003 ppb	
158Gd (KED)	0.017 ppb	
159Tb (KED)	95.584 %	
164Dy (KED)	0.012 ppb	
166Er (KED)	0.003 ppb	
169Tm (KED)	0.001 ppb	
174Yb (KED)	0.004 ppb	
175Lu (KED)	-0.017 ppb	
205Tl (KED)	0.004 ppb	
208Pb (KED)	0.247 ppb	
209Bi (KED)	89.834 %	
232Th (KED)	0.030 ppb	
238U (KED)	0.008 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	104.343 %	2,857 cps	
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	2.992 ppb	1,847 cps	
24Mg (KED)	82.565 ppb	46,175 cps	
27Al (KED)	113.375 ppb	15,383 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	99.723 %	50,221 cps	
51V (KED)	0.239 ppb	2,120 cps	
52Cr (KED)	0.646 ppb	9,040 cps	
55Mn (KED)	4.257 ppb	29,020 cps	
56Fe (KED)	142.713 ppb	1,770,537 cps	
58Ni (KED)	1.135 ppb	18,333 cps	
59Co (KED)	0.069 ppb	1,830 cps	
63Cu (KED)	2.367 ppb	45,874 cps	
64Zn (KED)	50.001 ppb	254,829 cps	
69Ga (KED)	0.501 ppb	3,240 cps	
75As (KED)	0.095 ppb	143 cps	
80Se (KED)	-0.061 ppb	1,310 cps	
85Rb (KED)	0.782 ppb	4,304 cps	
88Sr (KED)	1.208 ppb	9,447 cps	
89Y (KED)	93.383 %	415,529 cps	
107Ag (KED)	0.018 ppb	887 cps	
114Cd (KED)	0.008 ppb	177 cps	
115In (KED)	88.889 %	713,381 cps	
133Cs (KED)	0.025 ppb	697 cps	
138Ba (KED)	1.528 ppb	61,790 cps	
139La (KED)	0.109 ppb	9,173 cps	
140Ce (KED)	0.223 ppb	25,810 cps	
141Pr (KED)	0.024 ppb	2,774 cps	
142Nd (KED)	0.133 ppb	6,305 cps	
152Sm (KED)	0.017 ppb	703 cps	
153Eu (KED)	0.003 ppb	283 cps	
158Gd (KED)	0.017 ppb	917 cps	
159Tb (KED)	95.584 %	3,837,760 cps	
164Dy (KED)	0.012 ppb	753 cps	
166Er (KED)	0.003 ppb	547 cps	
169Tm (KED)	0.001 ppb	187 cps	
174Yb (KED)	0.004 ppb	380 cps	
175Lu (KED)	-0.017 ppb	12,026 cps	
205Tl (KED)	0.004 ppb	610 cps	
208Pb (KED)	0.247 ppb	36,156 cps	
209Bi (KED)	89.834 %	3,070,398 cps	
232Th (KED)	0.030 ppb	7,079 cps	
238U (KED)	0.008 ppb	2,107 cps	

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 36

Analysis name: 804281 duan jian

Analysis started at: 11/3/2021 4:17:09 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	108.970 %	
9Be (KED)	0.000 ppb	
11B (KED)	-9.678 ppb	
24Mg (KED)	137.074 ppb	
27Al (KED)	182.225 ppb	
45Sc (KED)	97.922 %	
51V (KED)	0.341 ppb	
52Cr (KED)	0.961 ppb	
55Mn (KED)	7.551 ppb	
56Fe (KED)	194.093 ppb	
58Ni (KED)	0.951 ppb	
59Co (KED)	0.102 ppb	
63Cu (KED)	2.426 ppb	
64Zn (KED)	54.292 ppb	
69Ga (KED)	0.828 ppb	
75As (KED)	0.122 ppb	
80Se (KED)	-0.391 ppb	
85Rb (KED)	0.581 ppb	
88Sr (KED)	2.205 ppb	
89Y (KED)	95.527 %	
107Ag (KED)	0.012 ppb	
114Cd (KED)	0.018 ppb	
115In (KED)	92.929 %	
133Cs (KED)	0.035 ppb	
138Ba (KED)	2.516 ppb	
139La (KED)	0.160 ppb	
140Ce (KED)	0.330 ppb	
141Pr (KED)	0.039 ppb	
142Nd (KED)	0.208 ppb	
152Sm (KED)	0.026 ppb	
153Eu (KED)	0.006 ppb	
158Gd (KED)	0.026 ppb	
159Tb (KED)	94.598 %	
164Dy (KED)	0.018 ppb	
166Er (KED)	0.006 ppb	
169Tm (KED)	0.001 ppb	
174Yb (KED)	0.007 ppb	
175Lu (KED)	-0.012 ppb	
205Tl (KED)	0.006 ppb	
208Pb (KED)	0.294 ppb	
209Bi (KED)	90.840 %	
232Th (KED)	0.045 ppb	
238U (KED)	0.010 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	108.970 %	2,984 cps	
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	-9.678 ppb	1,103 cps	
24Mg (KED)	137.074 ppb	79,855 cps	
27Al (KED)	182.225 ppb	24,093 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	97.922 %	49,314 cps	
51V (KED)	0.341 ppb	2,964 cps	
52Cr (KED)	0.961 ppb	13,157 cps	
55Mn (KED)	7.551 ppb	50,479 cps	
56Fe (KED)	194.093 ppb	2,362,853 cps	
58Ni (KED)	0.951 ppb	15,133 cps	
59Co (KED)	0.102 ppb	2,627 cps	
63Cu (KED)	2.426 ppb	48,062 cps	
64Zn (KED)	54.292 ppb	282,079 cps	
69Ga (KED)	0.828 ppb	5,371 cps	
75As (KED)	0.122 ppb	187 cps	
80Se (KED)	-0.391 ppb	1,200 cps	
85Rb (KED)	0.581 ppb	3,280 cps	
88Sr (KED)	2.205 ppb	17,469 cps	
89Y (KED)	95.527 %	425,071 cps	
107Ag (KED)	0.012 ppb	637 cps	
114Cd (KED)	0.018 ppb	377 cps	
115In (KED)	92.929 %	745,805 cps	
133Cs (KED)	0.035 ppb	1,003 cps	
138Ba (KED)	2.516 ppb	98,507 cps	
139La (KED)	0.160 ppb	13,347 cps	
140Ce (KED)	0.330 ppb	37,292 cps	
141Pr (KED)	0.039 ppb	4,431 cps	
142Nd (KED)	0.208 ppb	9,640 cps	
152Sm (KED)	0.026 ppb	1,043 cps	
153Eu (KED)	0.006 ppb	463 cps	
158Gd (KED)	0.026 ppb	1,420 cps	
159Tb (KED)	94.598 %	3,798,163 cps	
164Dy (KED)	0.018 ppb	1,090 cps	
166Er (KED)	0.006 ppb	767 cps	
169Tm (KED)	0.001 ppb	237 cps	
174Yb (KED)	0.007 ppb	620 cps	
175Lu (KED)	-0.012 ppb	12,633 cps	
205Tl (KED)	0.006 ppb	930 cps	
208Pb (KED)	0.294 ppb	41,847 cps	
209Bi (KED)	90.840 %	3,104,782 cps	
232Th (KED)	0.045 ppb	10,791 cps	
238U (KED)	0.010 ppb	2,817 cps	

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 37

Analysis name: 853057duan jian

Analysis started at: 11/3/2021 4:19:04 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	110.310 %	
9Be (KED)	0.021 ppb	
11B (KED)	-4.423 ppb	
24Mg (KED)	139.190 ppb	
27Al (KED)	306.113 ppb	
45Sc (KED)	96.959 %	
51V (KED)	0.528 ppb	
52Cr (KED)	1.175 ppb	
55Mn (KED)	8.338 ppb	
56Fe (KED)	300.609 ppb	
58Ni (KED)	1.634 ppb	
59Co (KED)	0.139 ppb	
63Cu (KED)	2.955 ppb	
64Zn (KED)	51.481 ppb	
69Ga (KED)	0.971 ppb	
75As (KED)	0.207 ppb	
80Se (KED)	-0.367 ppb	
85Rb (KED)	0.759 ppb	
88Sr (KED)	1.936 ppb	
89Y (KED)	95.806 %	
107Ag (KED)	0.011 ppb	
114Cd (KED)	0.014 ppb	
115In (KED)	91.395 %	
133Cs (KED)	0.055 ppb	
138Ba (KED)	3.170 ppb	
139La (KED)	0.264 ppb	
140Ce (KED)	0.538 ppb	
141Pr (KED)	0.061 ppb	
142Nd (KED)	0.347 ppb	
152Sm (KED)	0.046 ppb	
153Eu (KED)	0.009 ppb	
158Gd (KED)	0.040 ppb	
159Tb (KED)	95.715 %	
164Dy (KED)	0.030 ppb	
166Er (KED)	0.010 ppb	
169Tm (KED)	0.002 ppb	
174Yb (KED)	0.010 ppb	
175Lu (KED)	-0.009 ppb	
205Tl (KED)	0.006 ppb	
208Pb (KED)	0.471 ppb	
209Bi (KED)	93.087 %	
232Th (KED)	0.076 ppb	
238U (KED)	0.016 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	110.310 %	3,020 cps	
9Be (KED)	0.021 ppb	3 cps	
11B (KED)	-4.423 ppb	1,463 cps	
24Mg (KED)	139.190 ppb	82,079 cps	
27Al (KED)	306.113 ppb	39,870 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	96.959 %	48,829 cps	
51V (KED)	0.528 ppb	4,544 cps	
52Cr (KED)	1.175 ppb	15,907 cps	
55Mn (KED)	8.338 ppb	55,182 cps	
56Fe (KED)	300.609 ppb	3,621,089 cps	
58Ni (KED)	1.634 ppb	25,519 cps	
59Co (KED)	0.139 ppb	3,524 cps	
63Cu (KED)	2.955 ppb	58,514 cps	
64Zn (KED)	51.481 ppb	268,845 cps	
69Ga (KED)	0.971 ppb	6,285 cps	
75As (KED)	0.207 ppb	310 cps	
80Se (KED)	-0.367 ppb	1,213 cps	
85Rb (KED)	0.759 ppb	4,287 cps	
88Sr (KED)	1.936 ppb	15,413 cps	
89Y (KED)	95.806 %	426,311 cps	
107Ag (KED)	0.011 ppb	557 cps	
114Cd (KED)	0.014 ppb	293 cps	
115In (KED)	91.395 %	733,491 cps	
133Cs (KED)	0.055 ppb	1,523 cps	
138Ba (KED)	3.170 ppb	124,682 cps	
139La (KED)	0.264 ppb	22,206 cps	
140Ce (KED)	0.538 ppb	60,677 cps	
141Pr (KED)	0.061 ppb	7,025 cps	
142Nd (KED)	0.347 ppb	16,127 cps	
152Sm (KED)	0.046 ppb	1,870 cps	
153Eu (KED)	0.009 ppb	777 cps	
158Gd (KED)	0.040 ppb	2,190 cps	
159Tb (KED)	95.715 %	3,843,027 cps	
164Dy (KED)	0.030 ppb	1,803 cps	
166Er (KED)	0.010 ppb	1,070 cps	
169Tm (KED)	0.002 ppb	447 cps	
174Yb (KED)	0.010 ppb	870 cps	
175Lu (KED)	-0.009 ppb	13,160 cps	
205Tl (KED)	0.006 ppb	1,023 cps	
208Pb (KED)	0.471 ppb	63,247 cps	
209Bi (KED)	93.087 %	3,181,569 cps	
232Th (KED)	0.076 ppb	18,280 cps	
238U (KED)	0.016 ppb	4,484 cps	

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 38

Analysis name: 315042603860482jian

Analysis started at: 11/3/2021 4:21:00 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	108.605 %	
9Be (KED)	0.043 ppb	
11B (KED)	-4.691 ppb	
24Mg (KED)	206.043 ppb	
27Al (KED)	352.611 ppb	
45Sc (KED)	99.165 %	
51V (KED)	0.638 ppb	
52Cr (KED)	0.892 ppb	
55Mn (KED)	7.941 ppb	
56Fe (KED)	335.607 ppb	
58Ni (KED)	1.583 ppb	
59Co (KED)	0.151 ppb	
63Cu (KED)	4.216 ppb	
64Zn (KED)	57.104 ppb	
69Ga (KED)	1.404 ppb	
75As (KED)	0.359 ppb	
80Se (KED)	-0.126 ppb	
85Rb (KED)	1.259 ppb	
88Sr (KED)	3.317 ppb	
89Y (KED)	94.883 %	
107Ag (KED)	0.023 ppb	
114Cd (KED)	0.017 ppb	
115In (KED)	90.841 %	
133Cs (KED)	0.056 ppb	
138Ba (KED)	4.354 ppb	
139La (KED)	0.264 ppb	
140Ce (KED)	0.544 ppb	
141Pr (KED)	0.063 ppb	
142Nd (KED)	0.349 ppb	
152Sm (KED)	0.047 ppb	
153Eu (KED)	0.011 ppb	
158Gd (KED)	0.047 ppb	
159Tb (KED)	96.838 %	
164Dy (KED)	0.034 ppb	
166Er (KED)	0.017 ppb	
169Tm (KED)	0.002 ppb	
174Yb (KED)	0.013 ppb	
175Lu (KED)	-0.010 ppb	
205Tl (KED)	0.005 ppb	
208Pb (KED)	0.358 ppb	
209Bi (KED)	91.116 %	
232Th (KED)	0.078 ppb	
238U (KED)	0.015 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	108.605 %	2,974 cps	
9Be (KED)	0.043 ppb	7 cps	
11B (KED)	-4.691 ppb	1,423 cps	
24Mg (KED)	206.043 ppb	119,475 cps	
27Al (KED)	352.611 ppb	46,925 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	99.165 %	49,940 cps	
51V (KED)	0.638 ppb	5,615 cps	
52Cr (KED)	0.892 ppb	12,376 cps	
55Mn (KED)	7.941 ppb	53,755 cps	
56Fe (KED)	335.607 ppb	4,134,121 cps	
58Ni (KED)	1.583 ppb	25,292 cps	
59Co (KED)	0.151 ppb	3,921 cps	
63Cu (KED)	4.216 ppb	82,270 cps	
64Zn (KED)	57.104 ppb	294,107 cps	
69Ga (KED)	1.404 ppb	8,927 cps	
75As (KED)	0.359 ppb	523 cps	
80Se (KED)	-0.126 ppb	1,303 cps	
85Rb (KED)	1.259 ppb	7,035 cps	
88Sr (KED)	3.317 ppb	26,007 cps	
89Y (KED)	94.883 %	422,205 cps	
107Ag (KED)	0.023 ppb	1,163 cps	
114Cd (KED)	0.017 ppb	340 cps	
115In (KED)	90.841 %	729,046 cps	
133Cs (KED)	0.056 ppb	1,537 cps	
138Ba (KED)	4.354 ppb	171,953 cps	
139La (KED)	0.264 ppb	22,517 cps	
140Ce (KED)	0.544 ppb	62,138 cps	
141Pr (KED)	0.063 ppb	7,255 cps	
142Nd (KED)	0.349 ppb	16,401 cps	
152Sm (KED)	0.047 ppb	1,913 cps	
153Eu (KED)	0.011 ppb	883 cps	
158Gd (KED)	0.047 ppb	2,610 cps	
159Tb (KED)	96.838 %	3,888,110 cps	
164Dy (KED)	0.034 ppb	2,104 cps	
166Er (KED)	0.017 ppb	1,557 cps	
169Tm (KED)	0.002 ppb	530 cps	
174Yb (KED)	0.013 ppb	1,160 cps	
175Lu (KED)	-0.010 ppb	13,150 cps	
205Tl (KED)	0.005 ppb	757 cps	
208Pb (KED)	0.358 ppb	49,174 cps	
209Bi (KED)	91.116 %	3,114,225 cps	
232Th (KED)	0.078 ppb	18,384 cps	
238U (KED)	0.015 ppb	4,047 cps	

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 39

Analysis name: 315047603860466jian

Analysis started at: 11/3/2021 4:22:59 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	105.439 %	
9Be (KED)	0.022 ppb	
11B (KED)	-13.870 ppb	
24Mg (KED)	203.875 ppb	
27Al (KED)	319.653 ppb	
45Sc (KED)	99.098 %	
51V (KED)	0.645 ppb	
52Cr (KED)	0.971 ppb	
55Mn (KED)	7.243 ppb	
56Fe (KED)	303.359 ppb	
58Ni (KED)	1.513 ppb	
59Co (KED)	0.149 ppb	
63Cu (KED)	1.850 ppb	
64Zn (KED)	64.540 ppb	
69Ga (KED)	0.970 ppb	
75As (KED)	0.314 ppb	
80Se (KED)	-0.029 ppb	
85Rb (KED)	1.187 ppb	
88Sr (KED)	2.604 ppb	
89Y (KED)	95.756 %	
107Ag (KED)	0.012 ppb	
114Cd (KED)	0.017 ppb	
115In (KED)	90.689 %	
133Cs (KED)	0.059 ppb	
138Ba (KED)	3.181 ppb	
139La (KED)	0.253 ppb	
140Ce (KED)	0.543 ppb	
141Pr (KED)	0.064 ppb	
142Nd (KED)	0.336 ppb	
152Sm (KED)	0.048 ppb	
153Eu (KED)	0.007 ppb	
158Gd (KED)	0.041 ppb	
159Tb (KED)	93.364 %	
164Dy (KED)	0.031 ppb	
166Er (KED)	0.014 ppb	
169Tm (KED)	0.002 ppb	
174Yb (KED)	0.013 ppb	
175Lu (KED)	-0.010 ppb	
205Tl (KED)	0.006 ppb	
208Pb (KED)	0.327 ppb	
209Bi (KED)	88.935 %	
232Th (KED)	0.081 ppb	
238U (KED)	0.014 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	105.439 %	2,887 cps	
9Be (KED)	0.022 ppb	3 cps	
11B (KED)	-13.870 ppb	803 cps	
24Mg (KED)	203.875 ppb	114,776 cps	
27Al (KED)	319.653 ppb	42,539 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	99.098 %	49,906 cps	
51V (KED)	0.645 ppb	5,668 cps	
52Cr (KED)	0.971 ppb	13,451 cps	
55Mn (KED)	7.243 ppb	49,006 cps	
56Fe (KED)	303.359 ppb	3,734,817 cps	
58Ni (KED)	1.513 ppb	24,180 cps	
59Co (KED)	0.149 ppb	3,864 cps	
63Cu (KED)	1.850 ppb	36,971 cps	
64Zn (KED)	64.540 ppb	333,985 cps	
69Ga (KED)	0.970 ppb	6,275 cps	
75As (KED)	0.314 ppb	463 cps	
80Se (KED)	-0.029 ppb	1,357 cps	
85Rb (KED)	1.187 ppb	6,692 cps	
88Sr (KED)	2.604 ppb	20,647 cps	
89Y (KED)	95.756 %	426,089 cps	
107Ag (KED)	0.012 ppb	600 cps	
114Cd (KED)	0.017 ppb	337 cps	
115In (KED)	90.689 %	727,829 cps	
133Cs (KED)	0.059 ppb	1,630 cps	
138Ba (KED)	3.181 ppb	122,044 cps	
139La (KED)	0.253 ppb	20,757 cps	
140Ce (KED)	0.543 ppb	59,730 cps	
141Pr (KED)	0.064 ppb	7,115 cps	
142Nd (KED)	0.336 ppb	15,243 cps	
152Sm (KED)	0.048 ppb	1,897 cps	
153Eu (KED)	0.007 ppb	543 cps	
158Gd (KED)	0.041 ppb	2,177 cps	
159Tb (KED)	93.364 %	3,748,641 cps	
164Dy (KED)	0.031 ppb	1,857 cps	
166Er (KED)	0.014 ppb	1,340 cps	
169Tm (KED)	0.002 ppb	550 cps	
174Yb (KED)	0.013 ppb	1,050 cps	
175Lu (KED)	-0.010 ppb	12,753 cps	
205Tl (KED)	0.006 ppb	927 cps	
208Pb (KED)	0.327 ppb	44,653 cps	
209Bi (KED)	88.935 %	3,039,661 cps	
232Th (KED)	0.081 ppb	18,651 cps	
238U (KED)	0.014 ppb	3,614 cps	

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 40

Analysis name: 315042603860435jian

Analysis started at: 11/3/2021 4:24:49 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	114.937 %	
9Be (KED)	0.040 ppb	
11B (KED)	-12.789 ppb	
24Mg (KED)	190.863 ppb	
27Al (KED)	324.452 ppb	
45Sc (KED)	102.979 %	
51V (KED)	0.650 ppb	
52Cr (KED)	1.118 ppb	
55Mn (KED)	7.611 ppb	
56Fe (KED)	308.739 ppb	
58Ni (KED)	1.416 ppb	
59Co (KED)	0.142 ppb	
63Cu (KED)	2.062 ppb	
64Zn (KED)	63.305 ppb	
69Ga (KED)	1.230 ppb	
75As (KED)	0.270 ppb	
80Se (KED)	-0.195 ppb	
85Rb (KED)	0.854 ppb	
88Sr (KED)	3.074 ppb	
89Y (KED)	95.057 %	
107Ag (KED)	0.013 ppb	
114Cd (KED)	0.017 ppb	
115In (KED)	91.353 %	
133Cs (KED)	0.063 ppb	
138Ba (KED)	3.898 ppb	
139La (KED)	0.321 ppb	
140Ce (KED)	0.660 ppb	
141Pr (KED)	0.080 ppb	
142Nd (KED)	0.421 ppb	
152Sm (KED)	0.057 ppb	
153Eu (KED)	0.009 ppb	
158Gd (KED)	0.049 ppb	
159Tb (KED)	94.488 %	
164Dy (KED)	0.034 ppb	
166Er (KED)	0.015 ppb	
169Tm (KED)	0.002 ppb	
174Yb (KED)	0.014 ppb	
175Lu (KED)	-0.010 ppb	
205Tl (KED)	0.005 ppb	
208Pb (KED)	0.305 ppb	
209Bi (KED)	90.105 %	
232Th (KED)	0.210 ppb	
238U (KED)	0.014 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	114.937 %	3,147 cps	
9Be (KED)	0.040 ppb	7 cps	
11B (KED)	-12.789 ppb	950 cps	
24Mg (KED)	190.863 ppb	117,150 cps	
27Al (KED)	324.452 ppb	44,864 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	102.979 %	51,861 cps	
51V (KED)	0.650 ppb	5,938 cps	
52Cr (KED)	1.118 ppb	16,087 cps	
55Mn (KED)	7.611 ppb	53,508 cps	
56Fe (KED)	308.739 ppb	3,949,836 cps	
58Ni (KED)	1.416 ppb	23,525 cps	
59Co (KED)	0.142 ppb	3,847 cps	
63Cu (KED)	2.062 ppb	40,793 cps	
64Zn (KED)	63.305 ppb	325,417 cps	
69Ga (KED)	1.230 ppb	7,856 cps	
75As (KED)	0.270 ppb	397 cps	
80Se (KED)	-0.195 ppb	1,277 cps	
85Rb (KED)	0.854 ppb	4,784 cps	
88Sr (KED)	3.074 ppb	24,160 cps	
89Y (KED)	95.057 %	422,979 cps	
107Ag (KED)	0.013 ppb	667 cps	
114Cd (KED)	0.017 ppb	350 cps	
115In (KED)	91.353 %	733,156 cps	
133Cs (KED)	0.063 ppb	1,747 cps	
138Ba (KED)	3.898 ppb	150,581 cps	
139La (KED)	0.321 ppb	26,622 cps	
140Ce (KED)	0.660 ppb	73,328 cps	
141Pr (KED)	0.080 ppb	9,000 cps	
142Nd (KED)	0.421 ppb	19,252 cps	
152Sm (KED)	0.057 ppb	2,267 cps	
153Eu (KED)	0.009 ppb	703 cps	
158Gd (KED)	0.049 ppb	2,644 cps	
159Tb (KED)	94.488 %	3,793,763 cps	
164Dy (KED)	0.034 ppb	2,027 cps	
166Er (KED)	0.015 ppb	1,373 cps	
169Tm (KED)	0.002 ppb	463 cps	
174Yb (KED)	0.014 ppb	1,157 cps	
175Lu (KED)	-0.010 ppb	12,810 cps	
205Tl (KED)	0.005 ppb	750 cps	
208Pb (KED)	0.305 ppb	42,723 cps	
209Bi (KED)	90.105 %	3,079,657 cps	
232Th (KED)	0.210 ppb	48,729 cps	
238U (KED)	0.014 ppb	3,667 cps	

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 41

Analysis name: 315047603860486jian

Analysis started at: 11/3/2021 4:26:43 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	123.583 %	
9Be (KED)	0.019 ppb	
11B (KED)	-10.868 ppb	
24Mg (KED)	296.943 ppb	
27Al (KED)	546.935 ppb	
45Sc (KED)	105.094 %	
51V (KED)	1.038 ppb	
52Cr (KED)	1.059 ppb	
55Mn (KED)	13.363 ppb	
56Fe (KED)	545.124 ppb	
58Ni (KED)	2.338 ppb	
59Co (KED)	0.258 ppb	
63Cu (KED)	2.752 ppb	
64Zn (KED)	62.134 ppb	
69Ga (KED)	1.836 ppb	
75As (KED)	0.366 ppb	
80Se (KED)	0.034 ppb	
85Rb (KED)	1.348 ppb	
88Sr (KED)	4.406 ppb	
89Y (KED)	95.990 %	
107Ag (KED)	0.010 ppb	
114Cd (KED)	0.033 ppb	
115In (KED)	94.356 %	
133Cs (KED)	0.106 ppb	
138Ba (KED)	5.514 ppb	
139La (KED)	0.492 ppb	
140Ce (KED)	1.043 ppb	
141Pr (KED)	0.127 ppb	
142Nd (KED)	0.645 ppb	
152Sm (KED)	0.096 ppb	
153Eu (KED)	0.017 ppb	
158Gd (KED)	0.083 ppb	
159Tb (KED)	94.481 %	
164Dy (KED)	0.059 ppb	
166Er (KED)	0.029 ppb	
169Tm (KED)	0.004 ppb	
174Yb (KED)	0.025 ppb	
175Lu (KED)	0.000 ppb	
205Tl (KED)	0.008 ppb	
208Pb (KED)	0.553 ppb	
209Bi (KED)	92.652 %	
232Th (KED)	0.152 ppb	
238U (KED)	0.025 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	123.583 %	3,384 cps	
9Be (KED)	0.019 ppb	3 cps	
11B (KED)	-10.868 ppb	1,163 cps	
24Mg (KED)	296.943 ppb	195,776 cps	
27Al (KED)	546.935 ppb	76,957 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	105.094 %	52,925 cps	
51V (KED)	1.038 ppb	9,674 cps	
52Cr (KED)	1.059 ppb	15,550 cps	
55Mn (KED)	13.363 ppb	95,803 cps	
56Fe (KED)	545.124 ppb	7,113,464 cps	
58Ni (KED)	2.338 ppb	39,439 cps	
59Co (KED)	0.258 ppb	7,085 cps	
63Cu (KED)	2.752 ppb	54,669 cps	
64Zn (KED)	62.134 ppb	322,740 cps	
69Ga (KED)	1.836 ppb	11,762 cps	
75As (KED)	0.366 ppb	540 cps	
80Se (KED)	0.034 ppb	1,387 cps	
85Rb (KED)	1.348 ppb	7,619 cps	
88Sr (KED)	4.406 ppb	34,882 cps	
89Y (KED)	95.990 %	427,128 cps	
107Ag (KED)	0.010 ppb	543 cps	
114Cd (KED)	0.033 ppb	660 cps	
115In (KED)	94.356 %	757,254 cps	
133Cs (KED)	0.106 ppb	2,997 cps	
138Ba (KED)	5.514 ppb	211,579 cps	
139La (KED)	0.492 ppb	40,780 cps	
140Ce (KED)	1.043 ppb	115,112 cps	
141Pr (KED)	0.127 ppb	14,278 cps	
142Nd (KED)	0.645 ppb	29,348 cps	
152Sm (KED)	0.096 ppb	3,804 cps	
153Eu (KED)	0.017 ppb	1,363 cps	
158Gd (KED)	0.083 ppb	4,501 cps	
159Tb (KED)	94.481 %	3,793,499 cps	
164Dy (KED)	0.059 ppb	3,534 cps	
166Er (KED)	0.029 ppb	2,407 cps	
169Tm (KED)	0.004 ppb	873 cps	
174Yb (KED)	0.025 ppb	2,064 cps	
175Lu (KED)	0.000 ppb	14,292 cps	
205Tl (KED)	0.008 ppb	1,310 cps	
208Pb (KED)	0.553 ppb	72,313 cps	
209Bi (KED)	92.652 %	3,166,722 cps	
232Th (KED)	0.152 ppb	36,407 cps	
238U (KED)	0.025 ppb	6,742 cps	

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 42

Analysis name: 315047603860499jian

Analysis started at: 11/3/2021 4:28:35 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	102.882 %	
9Be (KED)	0.000 ppb	
11B (KED)	-7.320 ppb	
24Mg (KED)	177.147 ppb	
27Al (KED)	282.412 ppb	
45Sc (KED)	100.713 %	
51V (KED)	0.508 ppb	
52Cr (KED)	0.676 ppb	
55Mn (KED)	6.713 ppb	
56Fe (KED)	276.366 ppb	
58Ni (KED)	1.335 ppb	
59Co (KED)	0.130 ppb	
63Cu (KED)	2.946 ppb	
64Zn (KED)	57.752 ppb	
69Ga (KED)	0.987 ppb	
75As (KED)	0.238 ppb	
80Se (KED)	-0.221 ppb	
85Rb (KED)	0.829 ppb	
88Sr (KED)	2.840 ppb	
89Y (KED)	93.622 %	
107Ag (KED)	0.010 ppb	
114Cd (KED)	0.017 ppb	
115In (KED)	92.957 %	
133Cs (KED)	0.051 ppb	
138Ba (KED)	2.983 ppb	
139La (KED)	0.209 ppb	
140Ce (KED)	0.426 ppb	
141Pr (KED)	0.051 ppb	
142Nd (KED)	0.269 ppb	
152Sm (KED)	0.037 ppb	
153Eu (KED)	0.008 ppb	
158Gd (KED)	0.036 ppb	
159Tb (KED)	97.525 %	
164Dy (KED)	0.028 ppb	
166Er (KED)	0.012 ppb	
169Tm (KED)	0.002 ppb	
174Yb (KED)	0.010 ppb	
175Lu (KED)	-0.010 ppb	
205Tl (KED)	0.004 ppb	
208Pb (KED)	0.332 ppb	
209Bi (KED)	89.334 %	
232Th (KED)	0.071 ppb	
238U (KED)	0.012 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	102.882 %	2,817 cps	
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	-7.320 ppb	1,187 cps	
24Mg (KED)	177.147 ppb	97,348 cps	
27Al (KED)	282.412 ppb	38,232 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	100.713 %	50,720 cps	
51V (KED)	0.508 ppb	4,544 cps	
52Cr (KED)	0.676 ppb	9,557 cps	
55Mn (KED)	6.713 ppb	46,169 cps	
56Fe (KED)	276.366 ppb	3,458,362 cps	
58Ni (KED)	1.335 ppb	21,712 cps	
59Co (KED)	0.130 ppb	3,450 cps	
63Cu (KED)	2.946 ppb	57,003 cps	
64Zn (KED)	57.752 ppb	293,362 cps	
69Ga (KED)	0.987 ppb	6,238 cps	
75As (KED)	0.238 ppb	347 cps	
80Se (KED)	-0.221 ppb	1,247 cps	
85Rb (KED)	0.829 ppb	4,574 cps	
88Sr (KED)	2.840 ppb	21,999 cps	
89Y (KED)	93.622 %	416,591 cps	
107Ag (KED)	0.010 ppb	523 cps	
114Cd (KED)	0.017 ppb	347 cps	
115In (KED)	92.957 %	746,032 cps	
133Cs (KED)	0.051 ppb	1,437 cps	
138Ba (KED)	2.983 ppb	119,770 cps	
139La (KED)	0.209 ppb	17,970 cps	
140Ce (KED)	0.426 ppb	49,244 cps	
141Pr (KED)	0.051 ppb	5,965 cps	
142Nd (KED)	0.269 ppb	12,780 cps	
152Sm (KED)	0.037 ppb	1,537 cps	
153Eu (KED)	0.008 ppb	660 cps	
158Gd (KED)	0.036 ppb	1,997 cps	
159Tb (KED)	97.525 %	3,915,690 cps	
164Dy (KED)	0.028 ppb	1,713 cps	
166Er (KED)	0.012 ppb	1,210 cps	
169Tm (KED)	0.002 ppb	460 cps	
174Yb (KED)	0.010 ppb	917 cps	
175Lu (KED)	-0.010 ppb	13,277 cps	
205Tl (KED)	0.004 ppb	740 cps	
208Pb (KED)	0.332 ppb	45,383 cps	
209Bi (KED)	89.334 %	3,053,305 cps	
232Th (KED)	0.071 ppb	16,448 cps	
238U (KED)	0.012 ppb	3,274 cps	

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 43

Analysis name: 315047603860454jian

Analysis started at: 11/3/2021 4:30:27 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	107.752 %	
9Be (KED)	0.022 ppb	
11B (KED)	-13.626 ppb	
24Mg (KED)	198.571 ppb	
27Al (KED)	254.551 ppb	
45Sc (KED)	102.216 %	
51V (KED)	0.488 ppb	
52Cr (KED)	0.582 ppb	
55Mn (KED)	6.355 ppb	
56Fe (KED)	241.830 ppb	
58Ni (KED)	1.243 ppb	
59Co (KED)	0.112 ppb	
63Cu (KED)	2.171 ppb	
64Zn (KED)	58.639 ppb	
69Ga (KED)	1.173 ppb	
75As (KED)	0.323 ppb	
80Se (KED)	-0.168 ppb	
85Rb (KED)	1.091 ppb	
88Sr (KED)	2.636 ppb	
89Y (KED)	96.442 %	
107Ag (KED)	0.025 ppb	
114Cd (KED)	0.016 ppb	
115In (KED)	92.741 %	
133Cs (KED)	0.047 ppb	
138Ba (KED)	3.721 ppb	
139La (KED)	0.198 ppb	
140Ce (KED)	0.429 ppb	
141Pr (KED)	0.048 ppb	
142Nd (KED)	0.265 ppb	
152Sm (KED)	0.038 ppb	
153Eu (KED)	0.008 ppb	
158Gd (KED)	0.033 ppb	
159Tb (KED)	96.295 %	
164Dy (KED)	0.026 ppb	
166Er (KED)	0.011 ppb	
169Tm (KED)	0.002 ppb	
174Yb (KED)	0.011 ppb	
175Lu (KED)	-0.010 ppb	
205Tl (KED)	0.004 ppb	
208Pb (KED)	0.312 ppb	
209Bi (KED)	92.779 %	
232Th (KED)	0.065 ppb	
238U (KED)	0.012 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	107.752 %	2,950 cps	
9Be (KED)	0.022 ppb	3 cps	
11B (KED)	-13.626 ppb	837 cps	
24Mg (KED)	198.571 ppb	114,250 cps	
27Al (KED)	254.551 ppb	35,006 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	102.216 %	51,476 cps	
51V (KED)	0.488 ppb	4,427 cps	
52Cr (KED)	0.582 ppb	8,359 cps	
55Mn (KED)	6.355 ppb	44,362 cps	
56Fe (KED)	241.830 ppb	3,071,919 cps	
58Ni (KED)	1.243 ppb	20,547 cps	
59Co (KED)	0.112 ppb	3,017 cps	
63Cu (KED)	2.171 ppb	43,529 cps	
64Zn (KED)	58.639 ppb	306,668 cps	
69Ga (KED)	1.173 ppb	7,609 cps	
75As (KED)	0.323 ppb	480 cps	
80Se (KED)	-0.168 ppb	1,307 cps	
85Rb (KED)	1.091 ppb	6,198 cps	
88Sr (KED)	2.636 ppb	21,051 cps	
89Y (KED)	96.442 %	429,142 cps	
107Ag (KED)	0.025 ppb	1,270 cps	
114Cd (KED)	0.016 ppb	333 cps	
115In (KED)	92.741 %	744,294 cps	
133Cs (KED)	0.047 ppb	1,323 cps	
138Ba (KED)	3.721 ppb	146,646 cps	
139La (KED)	0.198 ppb	16,805 cps	
140Ce (KED)	0.429 ppb	48,999 cps	
141Pr (KED)	0.048 ppb	5,521 cps	
142Nd (KED)	0.265 ppb	12,433 cps	
152Sm (KED)	0.038 ppb	1,540 cps	
153Eu (KED)	0.008 ppb	630 cps	
158Gd (KED)	0.033 ppb	1,853 cps	
159Tb (KED)	96.295 %	3,866,332 cps	
164Dy (KED)	0.026 ppb	1,577 cps	
166Er (KED)	0.011 ppb	1,103 cps	
169Tm (KED)	0.002 ppb	460 cps	
174Yb (KED)	0.011 ppb	993 cps	
175Lu (KED)	-0.010 ppb	13,150 cps	
205Tl (KED)	0.004 ppb	677 cps	
208Pb (KED)	0.312 ppb	44,858 cps	
209Bi (KED)	92.779 %	3,171,064 cps	
232Th (KED)	0.065 ppb	15,610 cps	
238U (KED)	0.012 ppb	3,274 cps	

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 44

Analysis name: 315042603860490jian

Analysis started at: 11/3/2021 4:32:30 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	107.022 %	
9Be (KED)	0.000 ppb	
11B (KED)	-8.119 ppb	
24Mg (KED)	150.277 ppb	
27Al (KED)	245.776 ppb	
45Sc (KED)	97.909 %	
51V (KED)	0.489 ppb	
52Cr (KED)	0.770 ppb	
55Mn (KED)	6.228 ppb	
56Fe (KED)	230.946 ppb	
58Ni (KED)	1.391 ppb	
59Co (KED)	0.113 ppb	
63Cu (KED)	2.975 ppb	
64Zn (KED)	65.938 ppb	
69Ga (KED)	1.081 ppb	
75As (KED)	0.266 ppb	
80Se (KED)	0.179 ppb	
85Rb (KED)	0.729 ppb	
88Sr (KED)	2.483 ppb	
89Y (KED)	91.432 %	
107Ag (KED)	0.035 ppb	
114Cd (KED)	0.017 ppb	
115In (KED)	89.671 %	
133Cs (KED)	0.043 ppb	
138Ba (KED)	3.285 ppb	
139La (KED)	0.208 ppb	
140Ce (KED)	0.478 ppb	
141Pr (KED)	0.050 ppb	
142Nd (KED)	0.284 ppb	
152Sm (KED)	0.039 ppb	
153Eu (KED)	0.008 ppb	
158Gd (KED)	0.033 ppb	
159Tb (KED)	92.288 %	
164Dy (KED)	0.026 ppb	
166Er (KED)	0.012 ppb	
169Tm (KED)	0.002 ppb	
174Yb (KED)	0.010 ppb	
175Lu (KED)	-0.010 ppb	
205Tl (KED)	0.004 ppb	
208Pb (KED)	0.340 ppb	
209Bi (KED)	89.480 %	
232Th (KED)	0.061 ppb	
238U (KED)	0.013 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	107.022 %	2,930 cps	
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	-8.119 ppb	1,183 cps	
24Mg (KED)	150.277 ppb	85,951 cps	
27Al (KED)	245.776 ppb	32,385 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	97.909 %	49,307 cps	
51V (KED)	0.489 ppb	4,247 cps	
52Cr (KED)	0.770 ppb	10,571 cps	
55Mn (KED)	6.228 ppb	41,646 cps	
56Fe (KED)	230.946 ppb	2,810,249 cps	
58Ni (KED)	1.391 ppb	21,989 cps	
59Co (KED)	0.113 ppb	2,907 cps	
63Cu (KED)	2.975 ppb	56,210 cps	
64Zn (KED)	65.938 ppb	325,576 cps	
69Ga (KED)	1.081 ppb	6,662 cps	
75As (KED)	0.266 ppb	377 cps	
80Se (KED)	0.179 ppb	1,380 cps	
85Rb (KED)	0.729 ppb	3,931 cps	
88Sr (KED)	2.483 ppb	18,804 cps	
89Y (KED)	91.432 %	406,848 cps	
107Ag (KED)	0.035 ppb	1,733 cps	
114Cd (KED)	0.017 ppb	337 cps	
115In (KED)	89.671 %	719,656 cps	
133Cs (KED)	0.043 ppb	1,163 cps	
138Ba (KED)	3.285 ppb	124,475 cps	
139La (KED)	0.208 ppb	16,881 cps	
140Ce (KED)	0.478 ppb	52,132 cps	
141Pr (KED)	0.050 ppb	5,521 cps	
142Nd (KED)	0.284 ppb	12,740 cps	
152Sm (KED)	0.039 ppb	1,513 cps	
153Eu (KED)	0.008 ppb	603 cps	
158Gd (KED)	0.033 ppb	1,743 cps	
159Tb (KED)	92.288 %	3,705,418 cps	
164Dy (KED)	0.026 ppb	1,513 cps	
166Er (KED)	0.012 ppb	1,183 cps	
169Tm (KED)	0.002 ppb	357 cps	
174Yb (KED)	0.010 ppb	797 cps	
175Lu (KED)	-0.010 ppb	12,570 cps	
205Tl (KED)	0.004 ppb	693 cps	
208Pb (KED)	0.340 ppb	46,293 cps	
209Bi (KED)	89.480 %	3,058,294 cps	
232Th (KED)	0.061 ppb	14,121 cps	
238U (KED)	0.013 ppb	3,384 cps	

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 45

Analysis name: 315047603860476jian

Analysis started at: 11/3/2021 4:34:22 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	112.745 %	
9Be (KED)	0.021 ppb	
11B (KED)	-18.950 ppb	
24Mg (KED)	136.943 ppb	
27Al (KED)	253.862 ppb	
45Sc (KED)	104.262 %	
51V (KED)	0.476 ppb	
52Cr (KED)	1.079 ppb	
55Mn (KED)	5.358 ppb	
56Fe (KED)	222.475 ppb	
58Ni (KED)	1.284 ppb	
59Co (KED)	0.108 ppb	
63Cu (KED)	2.059 ppb	
64Zn (KED)	57.286 ppb	
69Ga (KED)	0.964 ppb	
75As (KED)	0.312 ppb	
80Se (KED)	-0.186 ppb	
85Rb (KED)	0.903 ppb	
88Sr (KED)	2.192 ppb	
89Y (KED)	97.752 %	
107Ag (KED)	0.009 ppb	
114Cd (KED)	0.010 ppb	
115In (KED)	93.632 %	
133Cs (KED)	0.044 ppb	
138Ba (KED)	3.039 ppb	
139La (KED)	0.214 ppb	
140Ce (KED)	0.459 ppb	
141Pr (KED)	0.051 ppb	
142Nd (KED)	0.277 ppb	
152Sm (KED)	0.042 ppb	
153Eu (KED)	0.007 ppb	
158Gd (KED)	0.035 ppb	
159Tb (KED)	93.851 %	
164Dy (KED)	0.025 ppb	
166Er (KED)	0.013 ppb	
169Tm (KED)	0.002 ppb	
174Yb (KED)	0.009 ppb	
175Lu (KED)	-0.010 ppb	
205Tl (KED)	0.004 ppb	
208Pb (KED)	0.284 ppb	
209Bi (KED)	92.577 %	
232Th (KED)	0.075 ppb	
238U (KED)	0.013 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	112.745 %	3,087 cps	
9Be (KED)	0.021 ppb	3 cps	
11B (KED)	-18.950 ppb	517 cps	
24Mg (KED)	136.943 ppb	82,542 cps	
27Al (KED)	253.862 ppb	35,611 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	104.262 %	52,507 cps	
51V (KED)	0.476 ppb	4,404 cps	
52Cr (KED)	1.079 ppb	15,723 cps	
55Mn (KED)	5.358 ppb	38,168 cps	
56Fe (KED)	222.475 ppb	2,883,019 cps	
58Ni (KED)	1.284 ppb	21,635 cps	
59Co (KED)	0.108 ppb	2,967 cps	
63Cu (KED)	2.059 ppb	41,884 cps	
64Zn (KED)	57.286 ppb	303,927 cps	
69Ga (KED)	0.964 ppb	6,368 cps	
75As (KED)	0.312 ppb	470 cps	
80Se (KED)	-0.186 ppb	1,317 cps	
85Rb (KED)	0.903 ppb	5,201 cps	
88Sr (KED)	2.192 ppb	17,779 cps	
89Y (KED)	97.752 %	434,970 cps	
107Ag (KED)	0.009 ppb	493 cps	
114Cd (KED)	0.010 ppb	233 cps	
115In (KED)	93.632 %	751,449 cps	
133Cs (KED)	0.044 ppb	1,260 cps	
138Ba (KED)	3.039 ppb	117,348 cps	
139La (KED)	0.214 ppb	17,689 cps	
140Ce (KED)	0.459 ppb	50,944 cps	
141Pr (KED)	0.051 ppb	5,698 cps	
142Nd (KED)	0.277 ppb	12,656 cps	
152Sm (KED)	0.042 ppb	1,660 cps	
153Eu (KED)	0.007 ppb	577 cps	
158Gd (KED)	0.035 ppb	1,893 cps	
159Tb (KED)	93.851 %	3,768,174 cps	
164Dy (KED)	0.025 ppb	1,483 cps	
166Er (KED)	0.013 ppb	1,243 cps	
169Tm (KED)	0.002 ppb	440 cps	
174Yb (KED)	0.009 ppb	803 cps	
175Lu (KED)	-0.010 ppb	12,827 cps	
205Tl (KED)	0.004 ppb	690 cps	
208Pb (KED)	0.284 ppb	41,549 cps	
209Bi (KED)	92.577 %	3,164,163 cps	
232Th (KED)	0.075 ppb	18,110 cps	
238U (KED)	0.013 ppb	3,554 cps	

## Sample Summary

Instrument ID: iCAP Q

Analysis index: 46

Analysis name: 315047603860514jian

Analysis started at: 11/3/2021 4:36:18 PM

User name: WINDOWS-UPCI4ER\Administrator

Category	Concentration average	Concentration RSD
6Li (KED)	107.752 %	
9Be (KED)	0.000 ppb	
11B (KED)	-21.648 ppb	
24Mg (KED)	156.725 ppb	
27Al (KED)	271.800 ppb	
45Sc (KED)	100.953 %	
51V (KED)	0.501 ppb	
52Cr (KED)	0.694 ppb	
55Mn (KED)	5.923 ppb	
56Fe (KED)	252.015 ppb	
58Ni (KED)	1.552 ppb	
59Co (KED)	0.133 ppb	
63Cu (KED)	2.790 ppb	
64Zn (KED)	58.046 ppb	
69Ga (KED)	0.973 ppb	
75As (KED)	0.293 ppb	
80Se (KED)	0.002 ppb	
85Rb (KED)	0.823 ppb	
88Sr (KED)	2.382 ppb	
89Y (KED)	94.831 %	
107Ag (KED)	0.012 ppb	
114Cd (KED)	0.009 ppb	
115In (KED)	90.500 %	
133Cs (KED)	0.052 ppb	
138Ba (KED)	2.890 ppb	
139La (KED)	0.228 ppb	
140Ce (KED)	0.460 ppb	
141Pr (KED)	0.053 ppb	
142Nd (KED)	0.283 ppb	
152Sm (KED)	0.043 ppb	
153Eu (KED)	0.007 ppb	
158Gd (KED)	0.035 ppb	
159Tb (KED)	95.042 %	
164Dy (KED)	0.024 ppb	
166Er (KED)	0.011 ppb	
169Tm (KED)	0.002 ppb	
174Yb (KED)	0.012 ppb	
175Lu (KED)	-0.009 ppb	
205Tl (KED)	0.004 ppb	
208Pb (KED)	0.270 ppb	
209Bi (KED)	90.312 %	
232Th (KED)	0.072 ppb	
238U (KED)	0.012 ppb	

Category	Concentration average	Intensity average	Intensity RSD
6Li (KED)	107.752 %	2,950 cps	
9Be (KED)	0.000 ppb	0 cps	
11B (KED)	-21.648 ppb	320 cps	
24Mg (KED)	156.725 ppb	90,238 cps	
27Al (KED)	271.800 ppb	36,895 cps	

Category	Concentration average	Intensity average	Intensity RSD
45Sc (KED)	100.953 %	50,840 cps	
51V (KED)	0.501 ppb	4,487 cps	
52Cr (KED)	0.694 ppb	9,824 cps	
55Mn (KED)	5.923 ppb	40,840 cps	
56Fe (KED)	252.015 ppb	3,161,533 cps	
58Ni (KED)	1.552 ppb	25,246 cps	
59Co (KED)	0.133 ppb	3,520 cps	
63Cu (KED)	2.790 ppb	54,733 cps	
64Zn (KED)	58.046 ppb	298,607 cps	
69Ga (KED)	0.973 ppb	6,235 cps	
75As (KED)	0.293 ppb	430 cps	
80Se (KED)	0.002 ppb	1,357 cps	
85Rb (KED)	0.823 ppb	4,601 cps	
88Sr (KED)	2.382 ppb	18,721 cps	
89Y (KED)	94.831 %	421,971 cps	
107Ag (KED)	0.012 ppb	607 cps	
114Cd (KED)	0.009 ppb	207 cps	
115In (KED)	90.500 %	726,313 cps	
133Cs (KED)	0.052 ppb	1,423 cps	
138Ba (KED)	2.890 ppb	113,156 cps	
139La (KED)	0.228 ppb	19,031 cps	
140Ce (KED)	0.460 ppb	51,774 cps	
141Pr (KED)	0.053 ppb	6,011 cps	
142Nd (KED)	0.283 ppb	13,097 cps	
152Sm (KED)	0.043 ppb	1,723 cps	
153Eu (KED)	0.007 ppb	540 cps	
158Gd (KED)	0.035 ppb	1,907 cps	
159Tb (KED)	95.042 %	3,816,008 cps	
164Dy (KED)	0.024 ppb	1,480 cps	
166Er (KED)	0.011 ppb	1,150 cps	
169Tm (KED)	0.002 ppb	437 cps	
174Yb (KED)	0.012 ppb	983 cps	
175Lu (KED)	-0.009 ppb	13,090 cps	
205Tl (KED)	0.004 ppb	730 cps	
208Pb (KED)	0.270 ppb	38,934 cps	
209Bi (KED)	90.312 %	3,086,747 cps	
232Th (KED)	0.072 ppb	16,888 cps	
238U (KED)	0.012 ppb	3,134 cps	