
***** G A M M A S P E C T R U M A N A L Y S I S *****

Filename: C:\GENIE2K\CAMFILES\Michael\RaTH4-500-ph7-ASE.CNF

Report Generated On : 12/10/2015 11:32:32 AM

Sample Title : RaFHY500pH7_ASE
Sample Description : 50 mM CaCl2 Extraction of Sample
Sample Identification :
Sample Type :
Sample Geometry :

Peak Locate Threshold : 3.00
Peak Locate Range (in channels) : 1 - 16384
Peak Area Range (in channels) : 55 - 16384
Identification Energy Tolerance : 1.000 keV

Sample Size : 1.000E+000 Unit

Sample Taken On :
Acquisition Started : 12/8/2015 2:00:46 PM

Live Time : 14400.0 seconds
Real Time : 14401.6 seconds

Dead Time : 0.01 %

Energy Calibration Used Done On : 9/4/2015
Efficiency Calibration Used Done On : ??????????
Efficiency ID :

***** ENERGY CALIBRATION REPORT *****

Detector Name: MP2_MCA1
Sample Title: RaFHY500pH7_ASE

***** ENERGY CALIBRATION COEFFICIENTS *****

Energy Calibrate Performed on: 9/4/2015 5:25:40 PM
by:
Energy Calibrate Type: POLY

Energy(keV) = 0.038 + 0.040*ch + 0.00E+000*ch^2 + 0.00E+000*ch^3

***** SHAPE CALIBRATION COEFFICIENTS *****

Shape Calibrate Performed on: 9/4/2015 5:25:40 PM
by:

FWHM = 1.233 + 0.012*E^{1/2}

LOW TAIL = 0.0E+000 + 0.0E+000*E

***** ENERGY CALIBRATION RESULTS TABLE *****

Centroid Channel	Centroid error	Energy (keV)
1581.14	0.20	63.29
2313.21	0.19	92.80
4650.58	0.42	186.21

***** SHAPE CALIBRATION RESULTS TABLE *****

Energy (keV)	FWHM channels	FWHM error	TAIL channels	TAIL error
63.29	34.72	0.42	0.00	0.00
92.80	31.41	0.45	0.00	0.00
186.21	37.79	0.90	0.00	0.00

***** E F F I C I E N C Y C A L I B R A T I O N R E P O R T *****

Detector Name: MP2_MCA1
Sample Title: RaFHY500pH7_ASE

Geometry Description:
Efficiency Calibration Performed on: ?????????? ????????????
by:
Geometry Type Used: DUAL

DUAL Efficiency Calibration Equation
=====

No DUAL Equation

EMPIRICAL Efficiency Calibration Equation
=====

No EMPIRICAL Equation

LINEAR Efficiency Calibration Equation
=====

No LINEAR Equation

** P E A K - T O - T O T A L C A L I B R A T I O N R E P O R T **

Detector Name: MP2_MCA1
Sample Title: RaFHY500pH7_ASE
Peak-to-Total Calibration Performed on: ?????????? ????????????

Peak-to-Total Calibration Equation
=====

No Peak-to-Total Equation

No nuclide identification results available for reporting purposes

***** P E A K L O C A T E R E P O R T *****

Detector Name: MP2_MCA1

Sample Title: RaFHY500pH7_ASE

Peak Locate Performed on: 12/10/2015 11:32:32 AM

Peak Locate From Channel: 1

Peak Locate To Channel: 16384

Peak Search Sensitivity: 3.00

Peak No.	Centroid Channel	Energy (keV)
1	317.76	12.85
2	399.02	16.02
3	1575.00	63.13
4	1924.71	77.18
5	2025.55	81.18
6	2094.10	83.93
7	4665.36	186.92
8	6065.20	242.99
9	7402.66	296.56
10	8830.00	353.74

? = Adjacent peak noted

Errors quoted at 1.000 sigma

***** P E A K L O C A T E R E P O R T *****

Detector Name: MP2_MCA1

Sample Title: RaFHY500pH7_ASE

Peak Locate Performed on: 12/10/2015 11:32:32 AM

Peak Locate From Channel: 1

Peak Locate To Channel: 16384

Peak Search Sensitivity: 3.00

Peak No.	Centroid Channel	Centroid Uncertainty	Energy (keV)	Peak Significance
1	317.76	<NA>	12.85	<NA>
2	399.02	<NA>	16.02	<NA>
3	1575.00	<NA>	63.13	<NA>
4	1924.71	<NA>	77.18	<NA>
5	2025.55	<NA>	81.18	<NA>
6	2094.10	<NA>	83.93	<NA>
7	4665.36	<NA>	186.92	<NA>
8	6065.20	<NA>	242.99	<NA>
9	7402.66	<NA>	296.56	<NA>
10	8830.00	<NA>	353.74	<NA>

? = Adjacent peak noted

Errors quoted at 1.000 sigma

***** P E A K A N A L Y S I S R E P O R T *****

Detector Name: MP2_MCA1

Sample Title: RaFHY500pH7_ASE

Peak Analysis Performed on: 12/10/2015 11:32:32 AM

Peak Analysis From Channel: 55

Peak Analysis To Channel: 16384

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
M	1	292-	425	319.80	12.85	0.89	1.75E+002	27.32	7.78E+002
m	2	292-	425	398.99	16.02	0.89	3.07E+002	27.47	5.08E+002
	3	1548-	1632	1575.00	63.13	0.12	1.29E+002	45.58	1.68E+002
M	4	1898-	2121	1925.69	77.18	0.81	1.84E+002	16.87	1.16E+002
m	5	1898-	2121	2025.78	81.18	0.81	1.15E+002	14.30	1.24E+002
m	6	1898-	2121	2094.21	83.93	0.81	1.97E+002	17.37	1.18E+002
	7	4630-	4703	4665.36	186.92	0.88	1.49E+003	54.64	1.47E+002
	8	6037-	6094	6065.20	242.99	0.04	7.07E+001	19.27	3.63E+001
	9	7374-	7431	7402.66	296.56	0.21	9.53E+001	21.91	4.47E+001
	10	8785-	8860	8830.00	353.74	0.06	1.26E+002	31.11	7.78E+001

M = First peak in a multiplet region

m = Other peak in a multiplet region

F = Fitted singlet

Errors quoted at 1.000 sigma

***** S T A N D A R D V M S P E A K A N A L Y S I S R E P O R T *****

Configuration Title:

Spectrum Title: RaFHY500pH7_ASE

Peak Analysis Performed on: 12/10/15 11:32:32 AM

Peak Analysis From Channel: 55 To Channel: 16384

Peak Search Sensitivity: 3.00 Gaussian Sensitivity: 10.00

Max Iterations: 10 Fit Singlets: No Critical Level Test: No

Use Fixed FWHM: No FWHM Reject: No FWHM Reject Ratio: 0.00

Peak Fit Engine Name: PANOLIN1 Continuum Type: STEP

	Pk	IT	Energy	Area	Bkgnd	FWHM	Channel	Left	PW	Cts/Sec	%err	Fit
M	1	7	12.85	175	778	0.89	319.80	292	134	1.2E-002	15.6	0.7
m	2	7	16.02	307	508	0.89	398.99	292	134	2.1E-002	8.9	0.7
	3	0	63.13	129	168	0.12	1575.00	1548	85	9.0E-003	35.3	0.0
M	4	5	77.18	184	116	0.81	1925.69	1898	224	1.3E-002	9.2	1.0
m	5	5	81.18	115	124	0.81	2025.78	1898	224	8.0E-003	12.5	1.0
m	6	5	83.93	197	118	0.81	2094.21	1898	224	1.4E-002	8.8	1.0
	7	0	186.92	1487	147	0.88	4665.36	4630	74	1.0E-001	3.7	0.0
	8	0	242.99	71	36	0.04	6065.20	6037	58	4.9E-003	27.3	0.0
	9	0	296.56	95	45	0.21	7402.66	7374	58	6.6E-003	23.0	0.0
	10	0	353.74	126	78	0.06	8830.00	8785	76	8.8E-003	24.6	0.0

M = First peak in a multiplet region

m = Other peak in a multiplet region

F = Fitted singlet

Errors quoted at 1.000 sigma

***** P E A K A N A L Y S I S R E P O R T *****

Detector Name: MP2_MCA1

Sample Title: RaFHY500pH7_ASE

Peak Analysis Performed on: 12/10/2015 11:32:32 AM

Peak Analysis From Channel: 55

Peak Analysis To Channel: 16384

	Peak No.	ROI start	ROI end	Energy (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts	Critical Level
M	1	292-	425	12.85	1.75E+002	27.32	7.78E+002	6.49E+001
m	2	292-	425	16.02	3.07E+002	27.47	5.08E+002	5.24E+001
	3	1548-	1632	63.13	1.29E+002	45.58	1.68E+002	7.26E+001
M	4	1898-	2121	77.18	1.84E+002	16.87	1.16E+002	2.51E+001
m	5	1898-	2121	81.18	1.15E+002	14.30	1.24E+002	2.59E+001
m	6	1898-	2121	83.93	1.97E+002	17.37	1.18E+002	2.53E+001
	7	4630-	4703	186.92	1.49E+003	54.64	1.47E+002	6.37E+001
	8	6037-	6094	242.99	7.07E+001	19.27	3.63E+001	2.85E+001
	9	7374-	7431	296.56	9.53E+001	21.91	4.47E+001	3.23E+001
	10	8785-	8860	353.74	1.26E+002	31.11	7.78E+001	4.77E+001

M = First peak in a multiplet region

m = Other peak in a multiplet region

F = Fitted singlet

Errors quoted at 1.000 sigma

***** P E A K W I T H N I D R E P O R T *****

Detector Name: MP2_MCA1

Sample Title: RaFHY500pH7_ASE

Peak Analysis Performed on: 12/10/2015 11:32:32 AM

Peak Analysis From Channel: 55

Peak Analysis To Channel: 16384

Tentative NID Library: C:\GENIE2K\CAMFILES\STDLIB.NLB

Peak Match Tolerance : 1.000 keV

	Peak No.	ROI Start	ROI End	Peak Centroid	Energy (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts	Tentative Nuclide
M	1	292-	425	319.80	12.85	1.75E+002	27.32	7.78E+002
m	2	292-	425	398.99	16.02	3.07E+002	27.47	5.08E+002
	3	1548-	1632	1575.00	63.13	1.29E+002	45.58	1.68E+002
M	4	1898-	2121	1925.69	77.18	1.84E+002	16.87	1.16E+002	PB-212
									PB-214
m	5	1898-	2121	2025.78	81.18	1.15E+002	14.30	1.24E+002	BA-133
									XE-133
m	6	1898-	2121	2094.21	83.93	1.97E+002	17.37	1.18E+002	TH-231
	7	4630-	4703	4665.36	186.92	1.49E+003	54.64	1.47E+002	RA-226
	8	6037-	6094	6065.20	242.99	7.07E+001	19.27	3.63E+001	XE-125
									XE-138
	9	7374-	7431	7402.66	296.56	9.53E+001	21.91	4.47E+001
	10	8785-	8860	8830.00	353.74	1.26E+002	31.11	7.78E+001

M = First peak in a multiplet region

m = Other peak in a multiplet region

F = Fitted singlet

Errors quoted at 1.000 sigma

***** P E A K E F F I C I E N C Y R E P O R T *****

Detector Name: MP2_MCA1

Sample Title: RaFHY500pH7_ASE

Peak Analysis Performed on: 12/10/2015 11:32:32 AM

Peak No.	Energy (keV)	Net Peak Area	Net Area Uncertainty	Peak Efficiency	Efficiency Uncertainty
M 1	12.85	1.75E+002	27.32	0.00E+000	0.00E+000
m 2	16.02	3.07E+002	27.47	0.00E+000	0.00E+000
3	63.13	1.29E+002	45.58	0.00E+000	0.00E+000
M 4	77.18	1.84E+002	16.87	0.00E+000	0.00E+000
m 5	81.18	1.15E+002	14.30	0.00E+000	0.00E+000
m 6	83.93	1.97E+002	17.37	0.00E+000	0.00E+000
7	186.92	1.49E+003	54.64	0.00E+000	0.00E+000
8	242.99	7.07E+001	19.27	0.00E+000	0.00E+000
9	296.56	9.53E+001	21.91	0.00E+000	0.00E+000
10	353.74	1.26E+002	31.11	0.00E+000	0.00E+000

M = First peak in a multiplet region

m = Other peak in a multiplet region

F = Fitted singlet

Errors quoted at 1.000 sigma

No background subtract performed on this spectrum.

No area correction performed on this spectrum.

No nuclide identification results available for reporting purposes

No nuclide identification results available for reporting purposes

No MDA analysis results available for reporting purposes

No MDA analysis results available for reporting purposes

No MDA analysis results available for reporting purposes

No ISO11929 analysis results available for reporting purposes

No Action Level results available for reporting purposes

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*****
*****          A U T O   G A I N   A D J U S T          *****
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Report Generated On:

12/10/2015 11:32:32 AM

No AGA results for reporting.
Status:

This report is valid only if a Certificate was the source of the true values.

No AGA results for reporting.
Status:

Channel,	Energy(keV),	Counts
1,	0.0784,	0
2,	0.1184,	0
3,	0.1585,	0
4,	0.1986,	0
5,	0.2386,	0
6,	0.2787,	0
7,	0.3187,	0
8,	0.3588,	0
9,	0.3988,	0
10,	0.4389,	0
11,	0.4789,	0
12,	0.5190,	0
13,	0.5591,	0
14,	0.5991,	0
15,	0.6392,	0
16,	0.6792,	0
17,	0.7193,	0
18,	0.7593,	0
19,	0.7994,	0
20,	0.8395,	0
21,	0.8795,	0
22,	0.9196,	0
23,	0.9596,	0
24,	0.9997,	0
25,	1.0397,	0
26,	1.0798,	0
27,	1.1199,	0
28,	1.1599,	0
29,	1.2000,	0
30,	1.2400,	0
31,	1.2801,	0
32,	1.3201,	0
33,	1.3602,	0
34,	1.4003,	0
35,	1.4403,	0
36,	1.4804,	0
37,	1.5204,	0
38,	1.5605,	0

39,	1.6005,	0
40,	1.6406,	0
41,	1.6807,	0
42,	1.7207,	0
43,	1.7608,	0
44,	1.8008,	0
45,	1.8409,	0
46,	1.8809,	0
47,	1.9210,	0
48,	1.9610,	0
49,	2.0011,	0
50,	2.0412,	0
51,	2.0812,	0
52,	2.1213,	0
53,	2.1613,	0
54,	2.2014,	0
55,	2.2414,	0
56,	2.2815,	0
57,	2.3216,	0
58,	2.3616,	2
59,	2.4017,	4
60,	2.4417,	12
61,	2.4818,	11
62,	2.5218,	7
63,	2.5619,	7
64,	2.6020,	10
65,	2.6420,	14
66,	2.6821,	10
67,	2.7221,	10
68,	2.7622,	11
69,	2.8022,	7
70,	2.8423,	12
71,	2.8824,	12
72,	2.9224,	21
73,	2.9625,	13
74,	3.0025,	17
75,	3.0426,	16
76,	3.0826,	23
77,	3.1227,	11
78,	3.1628,	17
79,	3.2028,	23
80,	3.2429,	24
81,	3.2829,	28
82,	3.3230,	29
83,	3.3630,	24
84,	3.4031,	21
85,	3.4431,	24
86,	3.4832,	28
87,	3.5233,	23
88,	3.5633,	22
89,	3.6034,	13
90,	3.6434,	26
91,	3.6835,	28
92,	3.7235,	25
93,	3.7636,	15
94,	3.8037,	20
95,	3.8437,	19
96,	3.8838,	17
97,	3.9238,	16
98,	3.9639,	35
99,	4.0039,	20
100,	4.0440,	24

101,	4.0841,	18
102,	4.1241,	21
103,	4.1642,	27
104,	4.2042,	19
105,	4.2443,	22
106,	4.2843,	24
107,	4.3244,	22
108,	4.3645,	23
109,	4.4045,	24
110,	4.4446,	21
111,	4.4846,	13
112,	4.5247,	15
113,	4.5647,	17
114,	4.6048,	20
115,	4.6448,	25
116,	4.6849,	12
117,	4.7250,	23
118,	4.7650,	16
119,	4.8051,	20
120,	4.8451,	18
121,	4.8852,	21
122,	4.9252,	18
123,	4.9653,	16
124,	5.0054,	21
125,	5.0454,	22
126,	5.0855,	26
127,	5.1255,	23
128,	5.1656,	13
129,	5.2056,	16
130,	5.2457,	27
131,	5.2858,	24
132,	5.3258,	18
133,	5.3659,	20
134,	5.4059,	18
135,	5.4460,	21
136,	5.4860,	17
137,	5.5261,	25
138,	5.5662,	16
139,	5.6062,	16
140,	5.6463,	17
141,	5.6863,	17
142,	5.7264,	18
143,	5.7664,	23
144,	5.8065,	20
145,	5.8466,	14
146,	5.8866,	16
147,	5.9267,	23
148,	5.9667,	20
149,	6.0068,	29
150,	6.0468,	27
151,	6.0869,	16
152,	6.1269,	10
153,	6.1670,	19
154,	6.2071,	20
155,	6.2471,	23
156,	6.2872,	26
157,	6.3272,	25
158,	6.3673,	12
159,	6.4073,	16
160,	6.4474,	15
161,	6.4875,	12
162,	6.5275,	18

163,	6.5676,	19
164,	6.6076,	17
165,	6.6477,	19
166,	6.6877,	14
167,	6.7278,	19
168,	6.7679,	17
169,	6.8079,	22
170,	6.8480,	20
171,	6.8880,	16
172,	6.9281,	14
173,	6.9681,	25
174,	7.0082,	14
175,	7.0483,	17
176,	7.0883,	16
177,	7.1284,	18
178,	7.1684,	20
179,	7.2085,	14
180,	7.2485,	16
181,	7.2886,	12
182,	7.3287,	17
183,	7.3687,	13
184,	7.4088,	11
185,	7.4488,	15
186,	7.4889,	18
187,	7.5289,	15
188,	7.5690,	16
189,	7.6090,	9
190,	7.6491,	18
191,	7.6892,	13
192,	7.7292,	13
193,	7.7693,	8
194,	7.8093,	12
195,	7.8494,	16
196,	7.8894,	9
197,	7.9295,	14
198,	7.9696,	20
199,	8.0096,	16
200,	8.0497,	12
201,	8.0897,	9
202,	8.1298,	15
203,	8.1698,	11
204,	8.2099,	13
205,	8.2500,	7
206,	8.2900,	16
207,	8.3301,	16
208,	8.3701,	12
209,	8.4102,	13
210,	8.4502,	14
211,	8.4903,	13
212,	8.5304,	10
213,	8.5704,	17
214,	8.6105,	19
215,	8.6505,	14
216,	8.6906,	15
217,	8.7306,	13
218,	8.7707,	9
219,	8.8107,	9
220,	8.8508,	18
221,	8.8909,	17
222,	8.9309,	11
223,	8.9710,	6
224,	9.0110,	11

225,	9.0511,	11
226,	9.0911,	14
227,	9.1312,	9
228,	9.1713,	9
229,	9.2113,	12
230,	9.2514,	12
231,	9.2914,	9
232,	9.3315,	14
233,	9.3715,	16
234,	9.4116,	19
235,	9.4517,	9
236,	9.4917,	9
237,	9.5318,	8
238,	9.5718,	18
239,	9.6119,	14
240,	9.6519,	8
241,	9.6920,	11
242,	9.7321,	8
243,	9.7721,	16
244,	9.8122,	16
245,	9.8522,	14
246,	9.8923,	17
247,	9.9323,	11
248,	9.9724,	15
249,	10.0125,	10
250,	10.0525,	9
251,	10.0926,	7
252,	10.1326,	12
253,	10.1727,	9
254,	10.2127,	9
255,	10.2528,	15
256,	10.2928,	16
257,	10.3329,	9
258,	10.3730,	11
259,	10.4130,	14
260,	10.4531,	11
261,	10.4931,	11
262,	10.5332,	19
263,	10.5732,	10
264,	10.6133,	11
265,	10.6534,	13
266,	10.6934,	15
267,	10.7335,	11
268,	10.7735,	12
269,	10.8136,	16
270,	10.8536,	14
271,	10.8937,	9
272,	10.9338,	11
273,	10.9738,	16
274,	11.0139,	18
275,	11.0539,	14
276,	11.0940,	13
277,	11.1340,	17
278,	11.1741,	14
279,	11.2142,	12
280,	11.2542,	14
281,	11.2943,	18
282,	11.3343,	10
283,	11.3744,	9
284,	11.4144,	9
285,	11.4545,	11
286,	11.4946,	14

287,	11.5346,	13
288,	11.5747,	16
289,	11.6147,	13
290,	11.6548,	14
291,	11.6948,	16
292,	11.7349,	11
293,	11.7749,	11
294,	11.8150,	9
295,	11.8551,	17
296,	11.8951,	10
297,	11.9352,	16
298,	11.9752,	15
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311,	12.4960,	14
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325,	13.0568,	22
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345,	13.8579,	11
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369,	14.8193,	16
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16044,	642.7085,	1
16045,	642.7485,	0
16046,	642.7886,	0
16047,	642.8286,	0
16048,	642.8687,	0
16049,	642.9088,	0
16050,	642.9488,	0
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16052,	643.0289,	0
16053,	643.0690,	0
16054,	643.1090,	0
16055,	643.1491,	0
16056,	643.1891,	0
16057,	643.2292,	0
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16060,	643.3494,	0
16061,	643.3894,	1
16062,	643.4295,	1
16063,	643.4695,	1
16064,	643.5096,	0
16065,	643.5497,	0
16066,	643.5897,	0
16067,	643.6298,	1
16068,	643.6698,	0
16069,	643.7099,	0
16070,	643.7499,	1
16071,	643.7900,	1
16072,	643.8301,	0
16073,	643.8701,	2
16074,	643.9102,	0
16075,	643.9502,	1
16076,	643.9903,	0
16077,	644.0303,	0
16078,	644.0704,	0
16079,	644.1105,	0
16080,	644.1505,	0
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16083,	644.2707,	0
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16087,	644.4309,	0
16088,	644.4710,	1
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16090,	644.5511,	1
16091,	644.5911,	0
16092,	644.6312,	0
16093,	644.6712,	0
16094,	644.7113,	0
16095,	644.7514,	0
16096,	644.7914,	0

16097,	644.8315,	1
16098,	644.8715,	1
16099,	644.9116,	0
16100,	644.9516,	0
16101,	644.9917,	0
16102,	645.0318,	1
16103,	645.0718,	0
16104,	645.1119,	0
16105,	645.1519,	0
16106,	645.1920,	0
16107,	645.2320,	0
16108,	645.2721,	1
16109,	645.3122,	0
16110,	645.3522,	1
16111,	645.3923,	0
16112,	645.4323,	0
16113,	645.4724,	0
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16116,	645.5926,	0
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16118,	645.6727,	0
16119,	645.7127,	0
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16121,	645.7928,	0
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16125,	645.9531,	0
16126,	645.9931,	0
16127,	646.0332,	0
16128,	646.0732,	0
16129,	646.1133,	0
16130,	646.1533,	1
16131,	646.1934,	0
16132,	646.2335,	0
16133,	646.2735,	0
16134,	646.3136,	1
16135,	646.3536,	0
16136,	646.3937,	0
16137,	646.4337,	0
16138,	646.4738,	1
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16140,	646.5539,	0
16141,	646.5940,	0
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16143,	646.6741,	0
16144,	646.7141,	0
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16147,	646.8343,	0
16148,	646.8744,	0
16149,	646.9144,	1
16150,	646.9545,	1
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16154,	647.1147,	0
16155,	647.1548,	0
16156,	647.1948,	0
16157,	647.2349,	0
16158,	647.2749,	0

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16161,	647.3951,	0
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16166,	647.5954,	0
16167,	647.6354,	0
16168,	647.6755,	1
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16170,	647.7556,	0
16171,	647.7957,	0
16172,	647.8357,	0
16173,	647.8758,	0
16174,	647.9158,	0
16175,	647.9559,	0
16176,	647.9960,	0
16177,	648.0360,	0
16178,	648.0761,	0
16179,	648.1161,	0
16180,	648.1562,	0
16181,	648.1962,	1
16182,	648.2363,	0
16183,	648.2764,	0
16184,	648.3164,	1
16185,	648.3565,	0
16186,	648.3965,	0
16187,	648.4366,	0
16188,	648.4766,	1
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16191,	648.5968,	0
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16193,	648.6769,	1
16194,	648.7170,	0
16195,	648.7570,	0
16196,	648.7971,	0
16197,	648.8371,	1
16198,	648.8772,	0
16199,	648.9173,	1
16200,	648.9573,	0
16201,	648.9974,	0
16202,	649.0374,	0
16203,	649.0775,	1
16204,	649.1175,	0
16205,	649.1576,	0
16206,	649.1977,	0
16207,	649.2377,	0
16208,	649.2778,	0
16209,	649.3178,	0
16210,	649.3579,	1
16211,	649.3979,	0
16212,	649.4380,	1
16213,	649.4781,	0
16214,	649.5181,	1
16215,	649.5582,	0
16216,	649.5982,	0
16217,	649.6383,	0
16218,	649.6783,	0
16219,	649.7184,	0
16220,	649.7585,	0

16221,	649.7985,	2
16222,	649.8386,	0
16223,	649.8786,	1
16224,	649.9187,	0
16225,	649.9587,	0
16226,	649.9988,	0
16227,	650.0388,	0
16228,	650.0789,	0
16229,	650.1190,	0
16230,	650.1590,	0
16231,	650.1991,	0
16232,	650.2391,	1
16233,	650.2792,	0
16234,	650.3192,	0
16235,	650.3593,	0
16236,	650.3994,	0
16237,	650.4394,	0
16238,	650.4795,	0
16239,	650.5195,	1
16240,	650.5596,	0
16241,	650.5996,	0
16242,	650.6397,	0
16243,	650.6798,	0
16244,	650.7198,	0
16245,	650.7599,	1
16246,	650.7999,	0
16247,	650.8400,	0
16248,	650.8800,	0
16249,	650.9201,	0
16250,	650.9602,	1
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16253,	651.0803,	0
16254,	651.1204,	0
16255,	651.1604,	0
16256,	651.2005,	1
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16258,	651.2806,	0
16259,	651.3207,	0
16260,	651.3607,	0
16261,	651.4008,	0
16262,	651.4408,	0
16263,	651.4809,	1
16264,	651.5209,	0
16265,	651.5610,	0
16266,	651.6011,	0
16267,	651.6411,	2
16268,	651.6812,	0
16269,	651.7212,	0
16270,	651.7613,	0
16271,	651.8013,	1
16272,	651.8414,	0
16273,	651.8815,	0
16274,	651.9215,	1
16275,	651.9616,	0
16276,	652.0016,	0
16277,	652.0417,	1
16278,	652.0817,	0
16279,	652.1218,	0
16280,	652.1619,	0
16281,	652.2019,	0
16282,	652.2420,	0

16283,	652.2820,	0
16284,	652.3221,	0
16285,	652.3621,	0
16286,	652.4022,	0
16287,	652.4423,	0
16288,	652.4823,	0
16289,	652.5224,	0
16290,	652.5624,	0
16291,	652.6025,	0
16292,	652.6425,	2
16293,	652.6826,	0
16294,	652.7226,	0
16295,	652.7627,	0
16296,	652.8028,	0
16297,	652.8428,	0
16298,	652.8829,	0
16299,	652.9229,	0
16300,	652.9630,	0
16301,	653.0030,	0
16302,	653.0431,	0
16303,	653.0832,	0
16304,	653.1232,	0
16305,	653.1633,	0
16306,	653.2033,	0
16307,	653.2434,	0
16308,	653.2834,	0
16309,	653.3235,	0
16310,	653.3636,	1
16311,	653.4036,	0
16312,	653.4437,	1
16313,	653.4837,	0
16314,	653.5238,	0
16315,	653.5638,	0
16316,	653.6039,	0
16317,	653.6440,	0
16318,	653.6840,	1
16319,	653.7241,	0
16320,	653.7641,	0
16321,	653.8042,	0
16322,	653.8442,	0
16323,	653.8843,	0
16324,	653.9244,	0
16325,	653.9644,	0
16326,	654.0045,	0
16327,	654.0445,	1
16328,	654.0846,	0
16329,	654.1246,	1
16330,	654.1647,	0
16331,	654.2047,	0
16332,	654.2448,	0
16333,	654.2849,	1
16334,	654.3249,	0
16335,	654.3650,	0
16336,	654.4050,	1
16337,	654.4451,	0
16338,	654.4851,	0
16339,	654.5252,	0
16340,	654.5653,	0
16341,	654.6053,	0
16342,	654.6454,	1
16343,	654.6854,	0
16344,	654.7255,	0

16345,	654.7655,	0
16346,	654.8056,	0
16347,	654.8457,	1
16348,	654.8857,	0
16349,	654.9258,	0
16350,	654.9658,	0
16351,	655.0059,	1
16352,	655.0459,	2
16353,	655.0860,	0
16354,	655.1261,	0
16355,	655.1661,	0
16356,	655.2062,	0
16357,	655.2462,	1
16358,	655.2863,	1
16359,	655.3263,	0
16360,	655.3664,	0
16361,	655.4064,	0
16362,	655.4465,	0
16363,	655.4866,	0
16364,	655.5266,	0
16365,	655.5667,	0
16366,	655.6067,	1
16367,	655.6468,	1
16368,	655.6868,	0
16369,	655.7269,	0
16370,	655.7670,	2
16371,	655.8070,	0
16372,	655.8471,	0
16373,	655.8871,	0
16374,	655.9272,	0
16375,	655.9672,	1
16376,	656.0073,	0
16377,	656.0474,	0
16378,	656.0874,	0
16379,	656.1275,	0
16380,	656.1675,	0
16381,	656.2076,	0
16382,	656.2476,	0
16383,	656.2877,	0
16384,	656.3278,	0

ROI, No.,	Chnnl, Start,	Chnnl, Stop,	Energy, Start, (keV),	Energy, Stop, (keV),	Net, Counts,	Gross, Counts,	Background Counts
1,	292,	425,	11.735,	17.062,	174,	952,	777
2,	292,	425,	11.735,	17.062,	307,	814,	507
3,	1548,	1632,	62.046,	65.411,	129,	297,	167
4,	1898,	2121,	76.066,	84.999,	183,	299,	116
5,	1898,	2121,	76.066,	84.999,	114,	238,	124
6,	1898,	2121,	76.066,	84.999,	196,	314,	118
7,	4630,	4703,	185.501,	188.425,	1487,	1634,	146
8,	6037,	6094,	241.861,	244.144,	70,	107,	36
9,	7374,	7431,	295.417,	297.700,	95,	140,	44
10,	8785,	8860,	351.937,	354.941,	126,	204,	77

ROI, No.,	Centroid, Error%,	Centroid, (keV),	FWHM, (keV),	FWTM, (keV),	FWTM/FWHM ratio
1,	0.00000,	319.7968,	0.8893,	0.00000,	0.0000
2,	0.00000,	398.9922,	0.8946,	0.00000,	0.0000
3,	0.00000,	1575.0000,	0.1207,	0.00000,	0.0000
4,	0.00000,	1925.6873,	0.8060,	0.00000,	0.0000
5,	0.00000,	2025.7849,	0.8088,	0.00000,	0.0000
6,	0.00000,	2094.2126,	0.8107,	0.00000,	0.0000
7,	0.00000,	4665.3638,	0.8806,	0.00000,	0.0000

8,	0.00000,	6065.2031,	0.0401,	0.00000,	0.0000
9,	0.00000,	7402.6626,	0.2146,	0.00000,	0.0000
10,	0.00000,	8830.0000,	0.0586,	0.00000,	0.0000

Name	,	Energy,	Flags,	Activity,	Activity,	MDA,	MDA
	,	(keV),	,	(Bq /Unit),	Error%,	(Bq /Unit),	Error%

No nuclide records found in data.

Name,	Expected Energy keV,	Measured Energy keV,	Difference from Expected keV,	FW
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No nuclide records found in data.