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\*\*\*\*\* G A M M A S P E C T R U M A N A L Y S I S \*\*\*\*\*  
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Filename: DET02

Report Generated On : 8/3/2021 8:16:16 AM

Sample Title : AY2019\_060-065\_18.41

Sample Description :

Sample Identification :

Sample Type :

Sample Geometry :

Peak Locate Threshold : 3.00

Peak Locate Range (in channels) : 1 - 8192

Peak Area Range (in channels) : 1 - 8192

Identification Energy Tolerance : 1.000 FWHM

Sample Size : 1.000E+000 Unit

Sample Taken On :

Acquisition Started : 7/31/2021 11:05:14 AM

Live Time : 248831.6 seconds

Real Time : 249049.2 seconds

Dead Time : 0.09 %

Energy Calibration Used Done On : 10/10/2014

Efficiency Calibration Used Done On : ???????????

Efficiency ID :

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\*\*\*\*\* P E A K A N A L Y S I S R E P O R T \*\*\*\*\*  
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Detector Name: DET02

Sample Title: AY2019\_060-065\_18.41

Peak Analysis Performed on: 8/3/2021 8:16:16 AM

Peak Analysis From Channel: 1

Peak Analysis To Channel: 8192

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
M	1	4-	9	4.00	0.85	0.26	8.51E+004	27.54	5.71E+003
m	2	4-	9	7.51	1.73	0.28	1.83E+004	18.05	1.53E+004
M	3	12-	21	14.57	3.49	0.83	3.87E+003	152.16	1.74E+004
m	4	12-	21	19.13	4.63	0.83	1.19E+004	187.57	1.55E+004
	5	156-	164	160.32	39.95	0.48	9.02E+001	81.10	1.98E+003
	6	183-	190	186.58	46.51	0.61	1.13E+003	76.94	1.59E+003
	7	209-	217	213.98	53.37	0.65	1.40E+002	79.74	1.90E+003
	8	249-	257	253.53	63.26	0.67	9.10E+002	89.37	2.17E+003
	9	268-	275	270.74	67.56	0.47	1.57E+002	75.43	1.83E+003
M	10	288-	313	291.84	72.84	0.64	2.81E+002	40.35	1.87E+003
m	11	288-	313	299.72	74.81	0.65	4.09E+003	74.77	2.01E+003
m	12	288-	313	308.77	77.08	0.65	6.58E+003	90.58	1.83E+003
	13	321-	329	324.45	81.00	0.58	1.19E+002	78.82	1.86E+003
	14	332-	341	337.04	84.15	1.12	8.24E+002	87.83	1.96E+003
M	15	344-	364	349.10	87.17	0.85	2.10E+003	63.47	2.19E+003
m	16	344-	364	360.03	89.90	0.86	1.38E+003	55.90	2.18E+003
	17	367-	377	372.75	93.08	1.39	2.12E+003	104.69	2.34E+003
	18	396-	403	398.53	99.53	0.58	1.96E+002	69.73	1.53E+003
	19	457-	465	460.96	115.14	0.67	1.52E+002	67.74	1.75E+003
	20	512-	522	516.58	129.05	0.61	5.51E+002	82.65	2.20E+003
	21	572-	580	575.03	143.68	0.35	1.40E+002	66.40	1.70E+003
	22	612-	621	616.32	154.00	0.59	1.23E+002	72.68	1.92E+003
	23	686-	691	688.55	172.07	0.45	6.76E+001	45.47	9.83E+002
	24	739-	749	743.80	185.89	0.96	7.25E+002	76.75	1.82E+003
	25	830-	842	837.07	209.22	0.81	6.93E+002	79.74	1.79E+003
M	26	949-	972	954.46	238.58	0.85	5.91E+003	83.87	1.26E+003
m	27	949-	972	964.76	241.16	0.85	6.87E+002	38.29	1.27E+003
	28	1073-	1087	1080.69	270.15	0.88	5.16E+002	67.32	1.39E+003
	29	1105-	1116	1109.20	277.28	0.82	2.23E+002	53.91	1.07E+003
	30	1173-	1187	1180.58	295.14	0.91	9.72E+002	65.11	1.13E+003
	31	1192-	1204	1200.22	300.05	0.65	1.79E+002	56.12	1.13E+003
	32	1304-	1319	1311.82	327.96	0.83	3.70E+002	61.64	1.14E+003
	33	1347-	1358	1352.82	338.22	0.96	9.09E+002	56.78	9.24E+002
	34	1399-	1414	1407.42	351.88	1.06	1.50E+003	69.05	1.09E+003
	35	1633-	1645	1636.85	409.26	0.99	1.51E+002	44.04	6.78E+002
	36	1842-	1859	1851.03	462.83	0.81	2.69E+002	53.48	7.94E+002
	37	2032-	2051	2042.22	510.65	1.40	1.53E+003	65.93	9.37E+002
	38	2321-	2341	2331.64	583.05	1.11	1.19E+003	57.73	6.91E+002
	39	2426-	2442	2436.20	609.20	1.30	8.77E+002	48.51	5.44E+002
	40	2598-	2610	2605.15	651.46	0.62	5.02E+001	29.53	3.57E+002
	41	2637-	2650	2645.01	661.43	0.39	4.95E+001	33.20	4.37E+002
	42	2900-	2914	2907.56	727.10	1.07	1.97E+002	35.13	4.14E+002

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
	43	3428-	3447	3439.58	860.17	0.96	1.26E+002	33.39	3.68E+002
	44	3632-	3654	3642.76	910.99	1.36	7.24E+002	44.09	4.18E+002
M	45	3848-	3883	3856.65	964.49	1.62	1.26E+002	18.83	3.49E+002
m	46	3848-	3883	3873.53	968.71	1.62	4.03E+002	26.45	3.71E+002
	47	4472-	4487	4478.49	1120.03	1.76	1.83E+002	28.33	2.63E+002
	48	4939-	4958	4949.62	1237.87	0.83	8.42E+001	30.04	3.37E+002
	49	5015-	5028	5022.53	1256.10	0.74	3.10E+001	18.71	1.59E+002
	50	5824-	5852	5839.12	1460.35	1.89	2.58E+003	56.07	1.82E+002
	51	5975-	5987	5981.13	1495.87	0.50	2.70E+001	12.45	6.60E+001
	52	6358-	6378	6364.88	1591.86	1.15	8.08E+001	19.89	1.29E+002
	53	7041-	7063	7052.78	1763.92	1.90	1.70E+002	19.85	9.19E+001

M = First peak in a multiplet region

m = Other peak in a multiplet region

F = Fitted singlet

Errors quoted at 1.000 sigma