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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: ERT01,C:\GENIE2K\CAMFILES\SMP-HTC-A02-S001-0612-01.CNF

Report Generated On	: 6/26/2017 3:04:40 PM
Sample Title	: HTC-A02-S001-0612-01
Sample Description	: 450 cc Soil
Sample Identification	:
Sample Type	:
Sample Geometry	:
Peak Locate Threshold	: 3.00
Peak Locate Range (in channels)	: 100 - 8192
Peak Area Range (in channels)	: 100 - 8192
Identification Energy Tolerance	: 1.000 keV
Sample Size	: 9.115E+002 GWET
Sample Taken On	: 5/15/2017 10:41:00 AM
Acquisition Started	: 6/26/2017 1:04:29 PM
Live Time	: 7200.0 seconds
Real Time	: 7208.9 seconds
Dead Time	: 0.12 %

Energy Calibration Used Done On	: 5/10/2017
Efficiency Calibration Used Done On	: 12/14/2016
Efficiency ID	: ERT0101

****
***** P E A K A N A L Y S I S R E P O R T *****
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Detector Name: ERT01
Sample Title: HTC-A02-S001-0612-01
Peak Analysis Performed on: 6/26/2017 3:04:40 PM
Peak Analysis From Channel: 100
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
	1	242-	259	254.10	63.39	1.04	7.72E+002	135.60	5.41E+003
M	2	289-	386	300.15	74.90	1.06	2.86E+003	80.09	5.04E+003
m	3	289-	386	309.15	77.15	1.07	3.39E+003	91.89	4.87E+003
m	4	289-	386	318.07	79.38	1.07	3.87E+002	57.11	4.73E+003
m	5	289-	386	325.13	81.14	1.07	3.60E+002	56.25	4.66E+003
m	6	289-	386	336.17	83.90	1.08	8.92E+002	56.37	4.56E+003
m	7	289-	386	349.51	87.23	1.08	3.14E+003	106.83	4.40E+003
m	8	289-	386	360.58	90.00	1.09	6.92E+002	42.69	4.28E+003
m	9	289-	386	371.18	92.65	1.09	2.89E+003	78.07	4.15E+003
	10	548-	556	552.54	137.98	0.43	7.96E+001	78.24	2.82E+003
	11	567-	584	576.11	143.87	1.05	8.41E+002	137.46	5.55E+003
	12	615-	627	618.04	154.35	0.70	1.95E+002	104.37	4.05E+003
	13	736-	752	744.59	185.97	1.25	5.29E+003	137.74	4.38E+003
M	14	941-	976	944.49	235.93	1.07	3.04E+002	42.38	1.93E+003
m	15	941-	976	954.85	238.52	1.07	1.09E+003	51.44	2.61E+003
m	16	941-	976	968.36	241.90	1.08	5.27E+003	85.33	2.38E+003
M	17	1021-	1047	1025.33	256.14	1.21	2.23E+002	39.54	1.79E+003
m	18	1021-	1047	1035.31	258.63	1.21	4.10E+002	45.04	2.15E+003
M	19	1067-	1092	1078.62	269.45	0.97	3.98E+002	40.07	1.86E+003
m	20	1067-	1092	1085.27	271.12	0.97	2.96E+002	38.04	1.93E+003
	21	1168-	1192	1181.11	295.07	1.17	1.20E+004	155.45	2.94E+003
	22	1209-	1216	1212.69	302.96	0.43	8.60E+000	42.15	8.77E+002
	23	1344-	1363	1353.41	338.13	1.25	2.56E+002	84.49	1.96E+003
	24	1399-	1422	1407.96	351.76	1.16	2.08E+004	170.70	2.07E+003
	25	1551-	1561	1555.87	388.73	0.97	7.21E+001	46.45	8.72E+002
	26	1600-	1613	1608.05	401.77	0.77	9.03E+001	53.79	1.02E+003
	27	1812-	1823	1818.84	454.45	0.93	9.29E+001	42.18	6.74E+002
	28	1912-	1936	1921.27	480.05	1.12	1.36E+002	68.26	1.10E+003
	29	1941-	1955	1947.98	486.72	0.48	1.52E+002	45.60	6.67E+002
	30	2029-	2054	2044.19	510.77	2.11	5.81E+002	72.01	1.08E+003
	31	2128-	2143	2133.72	533.14	0.73	1.25E+002	42.97	5.71E+002
M	32	2316-	2340	2321.01	579.95	1.23	1.39E+002	21.93	4.68E+002
m	33	2316-	2340	2332.90	582.92	1.24	4.43E+002	29.73	5.30E+002
	34	2423-	2447	2437.23	609.00	1.37	1.61E+004	140.27	8.49E+002
M	35	2637-	2673	2642.50	660.30	1.49	2.09E+001	6.94	3.66E+002
m	36	2637-	2673	2661.64	665.08	1.49	4.62E+002	14.51	4.72E+002
	37	2804-	2822	2811.37	702.50	1.96	1.90E+002	41.50	4.52E+002
	38	2874-	2888	2879.49	719.53	1.10	8.18E+001	33.49	3.59E+002
	39	2902-	2920	2908.89	726.87	0.34	4.19E+001	40.76	4.78E+002
	40	3057-	3085	3073.72	768.07	1.43	1.58E+003	69.78	7.08E+002
	41	3133-	3153	3143.93	785.61	1.28	3.49E+002	46.23	4.94E+002
	42	3216-	3238	3224.99	805.87	1.32	3.64E+002	46.02	4.49E+002

	Peak No.	ROI start	ROI end	Peak centroid	Energy (keV)	FWHM (keV)	Net Peak Area	Net Area Uncert.	Continuum Counts
	43	3349-	3364	3356.37	838.71	1.21	1.64E+002	35.77	3.68E+002
	44	3434-	3451	3442.94	860.34	0.73	9.17E+001	33.83	3.23E+002
	45	3635-	3653	3645.24	910.90	1.16	2.83E+002	41.25	4.20E+002
	46	3729-	3749	3736.89	933.81	1.51	7.83E+002	48.29	4.18E+002
M	47	3849-	3885	3856.73	963.76	1.46	1.08E+002	18.57	3.27E+002
m	48	3849-	3885	3876.25	968.64	1.46	1.68E+002	21.00	3.56E+002
	49	3995-	4015	4004.84	1000.77	1.58	2.40E+002	39.88	3.71E+002
	50	4201-	4221	4209.44	1051.91	0.30	1.13E+002	33.87	2.85E+002
	51	4273-	4288	4280.66	1069.71	0.66	2.26E+001	29.40	2.76E+002
	52	4467-	4494	4482.30	1120.10	1.63	3.68E+003	73.24	3.75E+002
	53	4610-	4638	4622.29	1155.09	1.64	4.63E+002	44.68	3.31E+002
	54	4826-	4842	4833.64	1207.91	1.07	6.78E+001	27.23	2.15E+002
	55	4943-	4965	4954.21	1238.04	1.68	1.27E+003	49.78	3.13E+002
	56	5115-	5136	5126.15	1281.01	1.62	3.23E+002	35.81	2.56E+002
	57	5501-	5527	5513.29	1377.76	1.77	9.33E+002	46.10	2.74E+002
	58	5530-	5553	5544.52	1385.57	1.56	1.43E+002	33.15	2.39E+002
M	59	5596-	5646	5608.50	1401.56	1.76	3.05E+002	21.00	1.92E+002
m	60	5596-	5646	5634.84	1408.14	1.77	4.63E+002	24.82	1.90E+002
	61	5833-	5864	5846.06	1460.93	1.66	1.29E+003	50.94	2.61E+002
	62	6027-	6052	6040.13	1509.43	1.48	4.01E+002	38.09	2.47E+002
	63	6168-	6184	6177.38	1543.73	0.37	6.69E+001	23.75	1.59E+002
	64	6323-	6347	6337.86	1583.84	0.79	1.55E+002	26.83	1.37E+002
	65	6373-	6389	6381.30	1594.70	0.63	3.99E+001	22.66	1.51E+002
	66	6639-	6658	6649.30	1661.67	0.99	1.86E+002	23.14	9.97E+001
	67	6913-	6935	6923.79	1730.27	1.89	6.45E+002	30.23	6.90E+001
	68	7049-	7076	7063.24	1765.13	1.93	3.09E+003	58.55	7.40E+001
	69	7384-	7408	7395.48	1848.16	1.96	4.25E+002	26.31	6.49E+001
	70	7492-	7507	7499.01	1874.03	0.28	3.65E+001	12.94	4.35E+001

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma

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***** N U C L I D E M D A R E P O R T *****
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Detector Name: ERT01
Sample Geometry:
Sample Title: HTC-A02-S001-0612-01
Nuclide Library Used: C:\GENIE2K\CAMFILES\ERT_LIBRARY_LMDA.NLB

	Nuclide Name	Energy (keV)	Yield (%)	Line MDA (pCi/GWET)	Nuclide MDA (pCi/GWET)	Activity (pCi/GWET)
+	K-40	1460.82*	10.55	1.1827E+000	1.18E+000	8.7270E+000
	Co-60	1173.23	99.85	1.0806E-001	1.08E-001	-7.6530E-002
		1332.49	99.98	1.1077E-001		9.3955E-003
>		2505.71	0.10	0.0000E+000		0.0000E+000
	Cs-137	32.06	5.54	8.0240E+003	1.19E-001	2.5659E+003
		661.66	84.99	1.1935E-001		-8.1292E-003
+	Tl-208	72.80	2.02	1.4794E+001	7.04E-002	9.5745E-001
		74.97*	3.41	5.2637E+000		3.2094E+001
		84.90*	1.51	8.5010E+000		1.6980E+001
		277.36	6.31	1.8482E+000		6.6666E-001
		510.77*	22.60	5.1191E-001		6.4727E-001
		583.19*	84.50	7.0415E-002		1.9815E-001
		763.13	1.81	8.0985E+000		-3.5908E-002
		860.56*	12.42	6.1967E-001		3.6981E-001
+	Bi-212	39.86	1.06	1.5123E+003	1.25E+000	4.5403E+001
		727.33*	6.74	1.2472E+000		2.7545E-001
		785.37*	1.11	8.4064E+000		1.4692E+001
		1620.74	1.51	6.8579E+000		1.5192E+000
		1806.00	0.09	8.0357E+001		9.8169E+001
+	Pb-212	74.81*	10.40	1.7259E+000	1.86E-001	1.0523E+001
		77.11*	17.50	9.2680E-001		6.8105E+000
		87.30*	7.81	1.4978E+000		1.0711E+001
		115.18	0.59	1.9702E+001		1.1117E+001
		238.63*	43.30	1.8615E-001		5.8523E-001
		300.09	3.28	3.9271E+000		1.7035E+000
+	Bi-214	76.86*	0.43	3.6516E+001	2.34E-001	2.6833E+002
		89.81*	0.24	4.2955E+001		6.8665E+001
		386.77	0.30	3.4405E+001		4.2001E+001
		454.77*	0.29	2.1509E+001		1.0315E+001
		609.31*	45.49	2.3417E-001		1.3367E+001
		665.45*	1.53	3.8073E+000		1.2076E+001
		703.11*	0.48	1.6005E+001		1.6496E+001
		719.86*	0.39	1.6386E+001		8.7855E+000
		768.36*	4.89	2.4305E+000		1.4302E+001
		786.10*	0.31	2.8870E+001		5.0457E+001
		806.17*	1.26	7.1581E+000		1.3193E+001
		934.06*	3.10	3.0665E+000		1.2929E+001
		964.08*	0.36	1.7611E+001		1.5609E+001
		1051.96*	0.31	2.7223E+001		2.0200E+001
		1120.29*	14.91	7.6958E-001		1.4642E+001

	Nuclide Name	Energy (keV)	Yield (%)	Line MDA (pCi/GWET)	Nuclide MDA (pCi/GWET)	Activity (pCi/GWET)
+	Bi-214	1133.66	0.25	4.3815E+001	2.34E-001	3.1185E+001
		1155.19*	1.63	6.8727E+000		1.7212E+001
		1207.68*	0.45	1.7233E+001		9.4720E+000
		1238.11*	5.79	1.8236E+000		1.4082E+001
		1280.96*	1.43	6.7681E+000		1.4907E+001
		1377.67*	4.00	2.8404E+000		1.6221E+001
		1385.31*	0.76	1.3515E+001		1.3188E+001
		1401.50*	1.27	5.2095E+000		1.6905E+001
		1407.98*	2.15	3.0632E+000		1.5212E+001
		1509.23*	2.11	5.3736E+000		1.4046E+001
		1538.50	0.38	3.4837E+001		2.3021E+001
		1543.32*	0.20	3.9863E+001		2.5078E+001
		1583.22*	0.69	1.2471E+001		1.7070E+001
		1594.73*	0.25	3.1674E+001		1.2156E+001
		1599.31	0.23	4.9550E+001		2.2402E+001
		1661.28*	1.15	6.0569E+000		1.2591E+001
		1683.99	0.22	4.0253E+001		2.1763E+001
		1729.59*	2.92	2.1370E+000		1.7459E+001
		1764.49*	15.40	4.5816E-001		1.5948E+001
		1847.42*	2.11	2.9998E+000		1.6202E+001
		1873.16*	0.22	2.0585E+001		1.3414E+001
>		2118.55	1.14	0.0000E+000		0.0000E+000
>		2204.21	5.08	0.0000E+000		0.0000E+000
+	Pb-214	53.28	1.20	7.8653E+001	3.19E-001	-8.2884E+000
		74.81*	6.44	2.6732E+000		1.6299E+001
		77.11*	10.80	1.4404E+000		1.0584E+001
		87.30*	4.84	2.3181E+000		1.6576E+001
		242.00*	7.43	9.9831E-001		1.6274E+001
		258.87*	0.52	1.3969E+001		1.8596E+001
		274.80	0.47	2.4495E+001		1.1094E+001
		295.22*	19.30	6.8138E-001		1.5848E+001
		351.93*	37.60	3.1859E-001		1.5447E+001
		462.00	0.22	4.3227E+001		1.1067E+001
		533.66*	0.19	3.6745E+001		2.3568E+001
		785.96*	1.07	8.3641E+000		1.4618E+001
		839.04*	0.59	1.2684E+001		1.3164E+001
+	Ra-224	81.07*	0.13	1.0669E+002	1.89E+000	8.5114E+001
		83.78*	0.22	5.9154E+001		1.1815E+002
		240.99*	4.10	1.8863E+000		3.0749E+001
+	Ra-226	81.07*	0.20	6.8043E+001	3.07E+000	5.4284E+001
		83.78*	0.33	3.7536E+001		7.4973E+001
		94.90	0.15	1.0376E+002		-1.1151E+001
		186.21*	3.59	3.0688E+000		2.9310E+001
	Ac-228	99.50	1.26	9.9432E+000	4.84E-001	3.9700E+000
		129.07	2.50	4.8490E+000		5.0637E+000
		209.25	3.97	3.0624E+000		-4.1421E-001
		270.24	3.55	3.5004E+000		2.0295E+000
		328.00	3.04	3.6831E+000		5.4168E-001
		338.32	11.40	1.0069E+000		4.8055E-001
		409.46	2.02	5.1938E+000		-1.3794E+000

	Nuclide Name	Energy (keV)	Yield (%)	Line MDA (pCi/GWET)	Nuclide MDA (pCi/GWET)	Activity (pCi/GWET)
	Ac-228	463.00	4.45	2.2971E+000	4.84E-001	7.8903E-001
		755.31	1.03	9.4225E+000		4.1148E+000
		772.29	1.52	1.0108E+001		1.6286E+000
		794.94	4.31	2.3003E+000		7.1378E-001
		835.70	1.70	6.7046E+000		7.6862E+000
		911.20	26.20	4.8364E-001		5.7451E-001
		964.79	4.99	2.4516E+000		8.8977E-002
		968.96	15.90	7.6811E-001		-8.7028E-002
		1588.20	3.06	4.1675E+000		3.0544E-002
		1630.62	1.52	6.5439E+000		-1.3276E+000
	Th-228	84.37*	1.26	1.0188E+001	1.02E+001	2.0349E+001
		131.61	0.13	9.2086E+001		-2.3828E+001
		166.41	0.10	1.1571E+002		2.9031E+001
		215.98	0.25	4.6166E+001		-2.4269E+001
+	Pa-234m	258.23*	0.07	9.9176E+001	1.11E+001	1.3203E+002
		742.81	0.09	1.0346E+002		-2.2871E+000
		766.36	0.32	4.6525E+001		2.0455E+002
		786.27*	0.05	1.6696E+002		2.9181E+002
		1001.03*	0.85	1.1123E+001		1.5083E+001
		1737.77	0.02	5.1062E+002		-1.0791E+002
+	Th-234	63.30*	3.75	1.1415E+001	2.30E+000	1.3567E+001
		92.59*	4.33	2.2961E+000		1.5040E+001
		112.81	0.22	5.2830E+001		1.0193E+001

+ = Nuclide identified during the nuclide identification
* = Energy line found in the spectrum
> = Calculated MDA is zero due to zero counts in the region, or the region is outside the spectrum, or has not been calculated
@ = Half-life too short to be able to perform the decay correction

****
***** N U C L I D E I D E N T I F I C A T I O N R E P O R T *****
****

Sample Title: HTC-A02-S001-0612-01
Nuclide Library Used: C:\GENIE2K\CAMFILES\ERT_LIBRARY_LMDA.NLB

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)		Yield (%)	Activity (pCi/GWET)	Activity Uncertainty
K-40	0.998	1460.82*		10.55	8.72696E+000	4.22697E-001
Cd-109	0.903	88.03*		3.63	2.35696E+001	1.03857E+000
Eu-152m	0.996	89.85*		69.90	2.41096E-001	1.63059E-002
Tl-208	0.857	72.80	@	2.02		
		74.97*	@	3.41	3.20943E+001	1.32025E+000
		84.90*	@	1.51	1.69799E+001	1.17358E+000
		277.36		6.31		
		510.77*	@	22.60	6.47270E-001	1.15602E-001
		583.19*		84.50	1.98147E-001	1.48919E-002
		763.13	@	1.81		
		860.56*		12.42	3.69809E-001	1.36789E-001
Bi-211	0.918	351.03*		13.00	4.48402E+001	1.65947E+000
Bi-212	0.748	39.86	@	1.06		
		727.33*		6.74	2.75447E-001	2.67928E-001
		785.37*		1.11	1.46924E+001	1.98562E+000
		1620.74		1.51		
		1806.00	@	0.09		
Pb-212	0.921	74.81*		10.40	1.05232E+001	5.28715E-001
		77.11*		17.50	6.81045E+000	3.35995E-001
		87.30*		7.81	1.07106E+001	5.78258E-001
		115.18	@	0.59		
		238.63*		43.30	5.85226E-001	3.41930E-002
		300.09		3.28		
Bi-214	0.963	76.86*	@	0.43	2.68333E+002	1.35472E+001
		89.81*	@	0.24	6.86650E+001	5.25679E+000
		386.77	@	0.30		
		454.77*	@	0.29	1.03151E+001	4.70046E+000
		609.31*		45.49	1.33674E+001	4.11494E-001
		665.45*	@	1.53	1.20757E+001	5.06656E-001
		703.11*	@	0.48	1.64961E+001	3.64170E+000
		719.86*	@	0.39	8.78545E+000	3.60895E+000
		768.36*		4.89	1.43022E+001	7.22481E-001
		786.10*	@	0.31	5.04573E+001	1.06078E+001
		806.17*	@	1.26	1.31928E+001	1.69866E+000
		934.06*		3.10	1.29286E+001	8.51046E-001
		964.08*	@	0.36	1.56093E+001	2.75890E+000
		1051.96*	@	0.31	2.02000E+001	6.11559E+000
		1120.29*		14.91	1.46422E+001	4.59799E-001
		1133.66	@	0.25		
		1155.19*	@	1.63	1.72118E+001	1.71600E+000
		1207.68*	@	0.45	9.47204E+000	3.82478E+000

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/GWET)	Activity Uncertainty
Bi-214	0.963	1238.11*	5.79	1.40823E+001	6.83812E-001
		1280.96* @	1.43	1.49071E+001	1.70684E+000
		1377.67*	4.00	1.62211E+001	9.32361E-001
		1385.31* @	0.76	1.31883E+001	3.09237E+000
		1401.50* @	1.27	1.69052E+001	1.26866E+000
		1407.98* @	2.15	1.52124E+001	9.67696E-001
		1509.23* @	2.11	1.40463E+001	1.40563E+000
		1538.50 @	0.38		
		1543.32* @	0.20	2.50783E+001	1.09041E+001
		1583.22* @	0.69	1.70704E+001	3.00745E+000
		1594.73* @	0.25	1.21562E+001	7.18302E+000
		1599.31 @	0.23		
		1661.28* @	1.15	1.25913E+001	1.63541E+000
		1683.99 @	0.22		
		1729.59* @	2.92	1.74595E+001	1.00563E+000
		1764.49*	15.40	1.59481E+001	6.37056E-001
		1847.42* @	2.11	1.62022E+001	1.20996E+000
		1873.16* @	0.22	1.34138E+001	4.81449E+000
		2118.55 @	1.14		
		2204.21 @	5.08		
Pb-214	0.976	53.28 @	1.20		
		74.81*	6.44	1.62992E+001	8.55600E-001
		77.11*	10.80	1.05843E+001	5.78697E-001
		87.30*	4.84	1.65764E+001	9.48379E-001
		242.00*	7.43	1.62742E+001	6.26582E-001
		258.87* @	0.52	1.85960E+001	2.16299E+000
		274.80 @	0.47		
		295.22*	19.30	1.58479E+001	5.77322E-001
		351.93*	37.60	1.54473E+001	5.50318E-001
		462.00 @	0.22		
		533.66* @	0.19	2.35676E+001	8.18534E+000
		785.96* @	1.07	1.46185E+001	2.25396E+000
		839.04* @	0.59	1.31642E+001	2.89628E+000
Rn-219	0.985	76.86* @	0.56	2.04865E+002	3.39401E+001
		79.29* @	0.93	1.30620E+001	2.88097E+000
		89.80* @	0.42	4.00357E+001	7.19288E+000
		130.60 @	0.13		
		271.23*	10.80	6.71083E-001	9.89042E-002
		401.81*	6.60	4.11733E-001	2.47506E-001
Ra-223	0.615	81.07*	15.30	7.01490E-001	1.11321E-001
		83.78*	25.40	9.71672E-001	6.98287E-002
		94.90	11.50		
		122.32 @	1.21		
		144.24*	3.27	4.73080E+000	8.01233E-001
		154.21*	5.70	6.45065E-001	3.46061E-001
		158.63 @	0.69		
		179.54 @	0.15		
		269.46*	13.90	6.97553E-001	7.64518E-002
		288.18 @	0.16		
		323.87	3.99		

Nuclide Name	Id Confidence	Energy (keV)		Yield (%)	Activity (pCi/GWET)	Activity Uncertainty
Ra-223	0.615	328.38	@	0.21		
		338.32*		2.84	2.47445E+000	8.24196E-001
		342.87	@	0.22		
		371.68	@	0.49		
		445.03	@	1.29		
Ra-224	0.884	81.07*	@	0.13	8.51137E+001	1.38920E+001
		83.78*	@	0.22	1.18155E+002	9.25547E+000
		240.99*		4.10	3.07493E+001	1.15541E+000
Ra-226	0.938	81.07*	@	0.20	5.42844E+001	8.82779E+000
		83.78*	@	0.33	7.49734E+001	5.86304E+000
		94.90	@	0.15		
		186.21*		3.59	2.93095E+001	1.25844E+000
Pa-234m	0.476	258.23*	@	0.07	1.32030E+002	1.51725E+001
		742.81	@	0.09		
		766.36		0.32		
		786.27*	@	0.05	2.91809E+002	3.95333E+001
		1001.03*		0.85	1.50830E+001	2.57897E+000
		1737.77	@	0.02		
Th-234	0.943	63.30*		3.75	1.35668E+001	2.54388E+000
		92.59*		4.33	1.50400E+001	8.71404E-001
		112.81	@	0.22		

* = Energy line found in the spectrum.
@ = Energy line not used for Weighted Mean Activity
Energy Tolerance : 1.000 keV
Nuclide confidence index threshold = 0.45
Errors quoted at 1.000 sigma

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***** I N T E R F E R E N C E C O R R E C T E D R E P O R T *****
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	Nuclide Name		Nuclide Id Confidence	Wt mean Activity (pCi/GWET)	Wt mean Activity Uncertainty
	K-40		0.998	8.726964E+000	4.226967E-001
	Cd-109		0.903	4.773343E+000	1.108961E+000
	Eu-152m		0.996	1.871307E-001	1.620050E-002
X	Tm-170		0.980		
	Tl-208	@	0.857	2.007489E-001	1.471384E-002
	Bi-211		0.918	9.006890E+000	1.755582E+000
	Bi-212	@	0.748	2.234604E-001	2.655348E-001
	Pb-212	@	0.921	5.652955E-001	3.365065E-002
	Bi-214	@	0.963	1.428094E+001	2.213345E-001
	Pb-214	@	0.976	1.234443E+001	2.998762E-001
	Rn-219	@	0.985	6.346335E-001	8.352625E-002
	Ra-223	@	0.615	5.709837E-001	4.611147E-002
	Ra-224	@	0.884	7.097084E+000	1.224100E+000
	Ra-226	@	0.938	2.872992E+001	1.144180E+000
X	Th-228		0.478		
X	Th-231		0.988		
	Pa-234m	@	0.476	1.484115E+001	2.569760E+000
	Th-234	@	0.943	1.488525E+001	8.243795E-001

? = Nuclide is part of an undetermined solution
X = Nuclide rejected by the interference analysis
@ = Nuclide contains energy lines not used in Weighted Mean Activity

Errors quoted at 1.000 sigma

********** U N I D E N T I F I E D P E A K S **********

Peak Locate Performed on: 6/26/2017 3:04:40 PM
Peak Locate From Channel: 100
Peak Locate To Channel: 8192

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide
10	137.98	1.1050E-002	98.35	Sum	
M 14	235.93	4.2167E-002	13.96	Sum	
M 17	256.14	3.1038E-002	17.69	Tol.	Th-227 Pa-231
22	302.96	1.1942E-003	490.27	Tol.	Se-75 Pa-231
25	388.73	1.0021E-002	64.38		
28	480.05	1.8826E-002	50.36	Sum	
29	486.72	2.1042E-002	30.10	D-Esc.	
M 32	579.95	1.9277E-002	15.80	Sum	
M 35	660.30	2.8967E-003	33.27	Sum	
45	910.90	3.8517E-002	14.89	Tol.	Ac-228
m 48	968.64	2.3386E-002	12.47	Sum	
51	1069.71	3.1341E-003	130.30		

M = First peak in a multiplet region
m = Other peak in a multiplet region
F = Fitted singlet

Errors quoted at 1.000 sigma