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

Filename: M:\gamma3\GENIE2K\CAMFILES\spect14\ISAC 14\2a_bp_sw3_w11.CNF

Report Generated On : 3/14/2014 9:32:34 AM

Sample Title : 2A Tunnel beam pipe swipe of rust w11
Sample Description : rust along top of pipe
Sample Identification : 2a_bp_sw3_w11
Sample Type :
Sample Geometry : s filter

Peak Locate Threshold : 3.00
Peak Locate Range (in channels) : 1 - 8192
Peak Area Range (in channels) : 62 - 8192
Identification Energy Tolerance : 1.000 FWHM

Sample Size : 1.000E+000 1

Sample Taken On : 3/12/2014 11:00:00 AM
Acquisition Started : 3/12/2014 2:36:35 PM

Live Time : 1800.0 seconds
Real Time : 1801.0 seconds

Dead Time : 0.05 %

Energy Calibration Used Done On : 3/10/2014
Efficiency Calibration Used Done On : 12/10/2012
Efficiency ID : sfilter

 ***** 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: 2A Tunnel beam pipe swipe of rust w11
 Nuclide Library Used: M:\gamma3\GENIE2K\CAMFILES\libraries\Tri

IDENTIFIED NUCLIDES

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (Bq /l)	Activity Uncertainty
ANN	1.000	511.00*	200.00	1.33282E+000	2.64242E-001
CR-51	0.993	320.08*	10.08	4.93779E+000	2.00439E+000
MN-54	1.000	834.83*	99.98	1.49496E+001	1.11253E+000
CO-57	1.000	122.06*	85.90	4.46499E+000	8.28896E-001
		136.47*	10.33	8.47639E+000	1.87481E+000
		692.41	0.16		
CO-58	0.988	810.78*	99.45	3.11198E+000	6.35623E-001
		863.96	0.68		
		1674.73	0.52		
CO-60	0.998	1173.24*	99.90	5.28297E+001	2.25835E+000
		1332.50*	99.98	5.44922E+001	2.60785E+000
AS-72	0.984	600.92	0.31		
		629.92	7.92		
		786.44	0.45		
		833.99*	79.50	2.08300E+001	1.61289E+000
		894.26	0.77		
		1050.75	0.98		
		1464.00	1.11		
		1475.90	0.51		
		1991.15	0.35		
		2105.90	0.64		
		2201.72	0.48		
		2248.50	0.32		
		2507.86	0.32		
		2621.46	0.39		
Y-87m	0.998	380.79*	78.05	8.11016E-001	4.06162E-001
AG-106m	0.996	221.70	6.60		
		228.63	2.10		
		328.46	1.14		
		391.04	3.68		
		406.18	13.40		
		429.65	13.20		
		450.98	28.20		
		474.06	0.93		
		511.85*	88.00	3.05792E+000	6.14966E-001
		601.17	1.61		
		616.17	21.60		
		646.03	1.46		
		679.64	0.64		
		680.42	1.54		
		703.11	4.47		
		717.34	28.90		

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (Bq /l)	Activity Uncertainty
AG-106m	0.996	748.36	20.60		
		793.17	5.90		
		804.28	12.40		
		808.36	4.00		
		824.69	15.30		
		847.03	2.80		
		847.27	1.60		
		956.22	0.47		
		1019.72	1.04		
		1045.83	29.60		
		1053.77	0.96		
		1121.59	0.57		
		1128.02	11.80		
		1199.39	11.20		
		1222.88	7.00		
		1394.35	1.49		
		1527.65	16.30		
		1565.40	0.48		
		1572.35	6.60		
		1722.76	1.40		
1839.05	2.00				
IN-116m	0.922	138.33	3.29		
		355.36	0.83		
		416.86*	28.90	1.92959E+001	7.70964E+000
		463.14	0.83		
		818.70	11.50		
		972.55	0.45		
		1097.30	56.20		
		1293.54	84.40		
		1507.40	10.00		
		1753.80	2.46		
		2112.10	15.50		
		AU-198	0.996	68.89	0.81
70.82	1.38				
80.30	0.61				
411.80*	95.58			2.77154E-001	1.21804E-001
675.89	0.80				
1087.69	0.16				

* = Energy line found in the spectrum.

@ = Energy line not used for Weighted Mean Activity

Energy Tolerance : 1.000 FWHM

Nuclide confidence index threshold = 0.60

Errors quoted at 1.000 sigma

 ***** 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 *****

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (Bq /l)	Wt mean Activity Uncertainty
? ANN	1.000	1.332815E+000	2.642417E-001
CR-51	0.993	4.937787E+000	2.004392E+000
? MN-54	1.000	1.494955E+001	1.112526E+000
CO-57	1.000	5.120891E+000	7.581066E-001
CO-58	0.988	3.111977E+000	6.356231E-001
CO-60	0.998	5.354216E+001	1.707189E+000
? AS-72	0.984	2.083001E+001	1.612886E+000
Y-87m	0.998	8.110161E-001	4.061625E-001
? AG-106m	0.996	3.057921E+000	6.149658E-001
IN-116m	0.922	1.929587E+001	7.709643E+000
AU-198	0.996	2.771541E-001	1.218041E-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: 3/14/2014 9:32:32 AM
 Peak Locate From Channel: 1
 Peak Locate To Channel: 8192

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty	Peak Type	Tol. Nuclide
m 7	420.23	7.3169E-003	33.27	Tol.	GE-77
9	625.77	1.5747E-002	40.03	Tol.	RH-102 EU-154

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

Errors quoted at 1.000 sigma

***** ACTION LEVEL SUMMARY REPORT *****

	Sum	Alarm Level 1	Alarm Level 2
SUMP (Control Level 1) :	0.0	<OK>	<OK>
STACK (Control Level 2) :	0.0	<OK>	<OK>