

---

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

---

Spectrum file Analysed: 07\_Kouen.dat : 7  
Sample Title : Nearerst my home Soid  
Analysed by : basama  
Sample type : Soid

Measured on Detector: 1 Geometry: 1  
Live Time: 3200 Secs. True Time: 3600 Secs. Dead Time: 11.11 %

Spectrum saved on 16-Apr-2012 at 17:43 Collected on 7-Apr-2012 at 21:00  
Sample Taken on 7-Apr-2012 at 21:00 Decayed 0 Days, 0 mins.  
Sampling Uncertainty 5.0 % Calibration Uncertainty 10.0 %  
Sample Size is 0.8803 kg

Geometry Description: ZipLock  
Detector file number used: 1  
Energy Calibration Performed on 16-Apr-2012 at 17:42  
Peak Shape Calibration Performed on 15-Apr-2012 at 7:13  
Efficiency Calibration Performed on 14-Apr-2012 at 11:40

## Analysis Parameters

Energy Tolerance: 25.00 Kev. Confidence Discriminator: 0.700  
Peak Area Error Sigma value: 1.645 Activity Error Sigma value: 2.000  
LOD Calculation Sigma value: 2.000

Library driven Peak Search included using Library File: NaI\_basama.lib

Background Subtraction performed using data from: air.bkg  
Created from Spectrum Filename: 10\_air.dat  
Spectrum Title: Air carib  
Data saved on: 7-Apr-2012 at 11:48 Count-Time was 6427 Seconds

DENS Density Correction was performed  
Reported Activity values were rounded  
Interpolated Efficiency Calibration was used

NOPK No Pulser Peak was found  
The Pulser Correction of Count Rate was PCOR %  
The Pulser Peak has drifted up by PCHU channels  
The Pulser Peak has drifted down by PCHD channels  
The Pulser Peak FWHM was PFWH keV, the calibration value was PCFW keV.  
The Pulser Peak was calibrated on DATP at TIMP

Analysis Library Used: NaI\_basama.lib  
LOD Library Used: NaI\_basama.lib

FitzPeaks Version: 3.50 18th May 2011

---

The following Radionuclides were found :-

Nuclide	Confidence Value	Activity - Bq/kg			
		Measured		Decay Corrected	
Cs-134	1.00	225.0 +/-	24.0 %	225.0 +/-	53.0
Activation product: Cs-133(n,g)					
Cs-137	1.00	330.0 +/-	42.0 %	330.0 +/-	140.0
Calibration Source; Fission Product					

---

---

S U M M A R Y                      R E P O R T

---

Sample: Nearerst my home                      Soid  
Sample Taken on 7-Apr-2012 at 21:00

Nuclide		Activity - Bq/kg	
		Measured	Decay Corrected
Cs-134	:	225.0	225.0 +/- 53.0
Cs-137	:	330.0	330.0 +/- 140.0
I-131	: <	120.0	< 120.0
K-40	: <	280.0	< 280.0

---

---

L I M I T   O F   D E T E C T I O N   R E P O R T

---

Sample: Nearerst my home            Soid  
Sample Taken on 7-Apr-2012 at 21:00

Nuclide	Critical Limit or LLD Measured	- Bq/kg Decay Corrected
Cs-134 :	20.0	20.0
Cs-137 :	31.0	31.0
I-131 :	120.0	120.0
K-40 :	270.0	270.0

End of Report