

GS89/02

AERODATA HOLDINGS LIMITED

REPORT ON THE KULGERA AREA

AEROMAGNETIC AND RADIOMETRIC SURVEY

on behalf of

NORTHERN TERRITORY DEPARTMENT
OF MINES AND ENERGY

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1. INTRODUCTION

On the 18 August 1986 Aerodata Holdings Ltd was contracted by Northern Territory Department of Mines and Energy to carry out an aeromagnetic and radiometric survey in the Kulgera area, Northern Territory.

Flying commenced on 29 October, 1986 and was completed on 14 November, 1986.

Data processing was carried out of the Perth office.

2. GENERAL SURVEY SPECIFICATIONS

2.1 LOCATION OF SURVEY AREA

The survey area comprised the whole of the Britten Jones, Mulga Park and Sentinel Bore 1:100,000 sheets, Northern Territory.

2.2 FLYING SPECIFICATIONS

Flight Line Direction	North-South
Tie Line Direction	East-West
Flight Line Spacing	500 metres
Tie Line Spacing	5,000 metres
Sensor Height	100 metres
Magnetometer Cycle Rate	0.20 seconds
Spectrometer Cycle Rate	0.80 seconds
Magnetometer Sample Interval	12 metres
Aircraft Ground Speed	125 Knots
Magnetometer Resolution	0.01 nT
Magnetometer Noise Envelope	0.25 nT

3. EQUIPMENT USED FOR FLYING SURVEY

3.1 AIRCRAFT

A Rockwell Shrike Commander 500S VH-MEH. This aircraft has been extensively modified for survey work.

3.2 MAGNETOMETER

The magnetometer system is based on the Scintrex V-201 cesium vapour magnetometer. The system consists of a stinger mounted Scintrex VIW 2321 HG single cell split beam cesium magnetometer sensor with associated sensor electronics. This system outputs a continuous sinusoidal signal which has a Lamore frequency proportional to the total magnetic field at the sensor. The frequency of the Lamore signal is counted by an Aerodata designed system which is connected to the acquisition system computer by an HP-IB interface. The rate at which the Lamore frequency is determined (i.e. the cycle rate) can be set from 0.1 second to 1.5 seconds in 0.1 second steps.

3.3 CRYSTAL AND SPECTROMETER SYSTEM

Two Geometrics DET 1024 NaI slab crystal with a total volume of 33.56 litres was used. The crystals were connected to a Geometrics GR800B 256 channel spectrometer through a GR900 crystal controller. The spectrometer was used in such a manner that although 256 channels were available for spectral plotting not all were used in normal survey acquisition. Groups of channels were summed to provide outputs (analog and digital) for Potassium Uranium and Thorium windows. All channels were summed to give a Total Count. See Section 7.2 for energy level settings of the various windows.

3.4 RADAR ALTIMETER

A Sperry AA100A Radar Altimeter was used. The altimeter provided a visual display of height above terrain to the pilot and also supplied a voltage proportional to height. This voltage was fed to the chart recorders and the acquisition system such that the altimeter was digitally recorded. The output of the altimeter was only linear up to 500'.

3.5 TRACKING SYSTEM

An Aerodata Video Tracking System was used for visual aircraft location. The system comprises:

Sony Ch-1400CE black and white video camera feeding a "For-A" (TG-160) title generator fitted with an Aerodata IEEE-488 interface printed circuit board which allows the aircraft's HP9825 computer to display Job No., Line No., direction and fid No. This is recorded on a Sony SL-FIE (Beta Format) video recorder and displayed on a Toshiba C531 video monitor. All units have been modified to allow powering from aircraft 28V DC supply. A Vinten MKIII 16mm tracking camera was also used for aircraft location. This camera was fired by the acquisition system which also generated 10's and 100's marks on the appropriate frames to aid in film editing.

3.6 ANALOG RECORDER

A Watanabe 8 channel recorder was also used to record the analog data. Two channels were used for the magnetics, one at 200 nT full scale and the other at 2,000 nT full scale. As the cesium vapour magnetometer has no analog output the magnetic analogs were derived from the digital value of the magnetics that was sent to the acquisition computer. The other channels recorded were the radar altimeter and the radiometric data as total count, potassium, uranium, thorium and cosmic. The radiometric data was recorded in stripped form (See Section 7.2 for stripping ratios).

The chart recorder was driven at a constant speed and had event marks placed on it by the acquisition system such that the chart could be suitably edited.

3.7 DIGITAL ACQUISITION AND RECORDING SYSTEM

The system used was designed and built by Aerodata and is based around a Hewlett Packard 9825 Computer a Dylon A Formatter and a Kennedy 9 track digital tape transport.

The system accepts data from the magnetometer directly into the computer and at intervals set by the cycle rate of the system, digital spectrometer data is fed directly from the spectrometer to the 9 track tape drive. Analog altimeter data is fed into the acquisition system which then passes this data in digital form to the computer via a HPIB interface. The same HPIB interface also carries commands from the computer to the acquisition system to control the camera, mark the analog charts and output the analogs for the magnetics to the analog recorder.

This HPIB interface is also used to connect the tape drive to the computer. The computer also carries as a peripheral a real time clock such that the month, day, hour, minute and second of the start and end time of each line is recorded.

For each fiducial 7 digits of magnetic data was recorded. On every 2nd fiducial altimeter and spectrometer data was recorded as follows:

Altimeter

Radiometrics - Tc, K, U, Th, cosmic channels

A line header record was also recorded which holds a variety of data along with line number, line direction, start and end fid number and start and end time of the line.

4. NAVIGATION, PHOTOGRAPHY AND FLIGHT PATH RECOVERY

4.1 PHOTOGRAPHY

Aerodata Holdings Ltd supplied two sets of 1:50,000 scale black and white enlargements plus one set of contact prints. One set of enlargements bore 9 AMG control points per frame for digitising of the recovered flight path.

4.2 NAVIGATION

Navigation was carried out by visual reference to flight strips planned from one set of 1:50,000 enlargements. The set of contact prints were used for tie line navigation.

4.3 FLIGHT PATH RECOVERY

The aircraft flight path was recovered onto one set of controlled enlargements provided. In fill lines were flown if flight line spacing exceeded 150% of the planned spacing for a distance of 5km or more.

5. MAGNETIC BASE STATION

5.1 LOCATION OF MAGNETIC BASE STATION

The base station was located at Yulara Airport Northern Territory in an area of low magnetic gradient away from cultural effects.

5.2 DESCRIPTION OF BASE STATION SYSTEM

The primary base station was a Geometric G856 memory magnetometer. This magnetometer has a resolution of .1 nT and a memory capacity of 12,000 readings. The cycle rate was 20 seconds. At regular intervals the data from the memory was dumped to magnetic tape for later use in the data processing phase. The secondary storm monitor was a Geometrics G826 magnetometer modified to 1/4 nT sensitivity and interfaced to Hewlett Packard 41CV calculator, tape drive and printer by HPIL interface system. The calculator with a real time clock was able to cycle the magnetometer at specific times and read the magnetic field value. This value along with the date and time of the reading could then be recorded on magnetic tape and/or printed out on the printer for immediate evaluation.

The systems are designed such that they are powered by rechargeable sealed batteries which can be float charged by the mains or by lead acid batteries and solar panels.

5.3 METHOD IN WHICH BASE STATION DATA WAS USED

The data from the base station was used as a monitor for abnormal diurnal variation. If the magnetic field changed by more than 5 nT in 5 minutes any airborne data collected during that period was reflown at Aerodata's expense.

The base station data was also used to diurnally level all lines flown during the survey.

6. PROCESSING

6.1 DIGITISING OF PHOTOGRAPHY

From the Australian Map Grid controlled photography an easting and northing was computed and stored for each recovered fiducial.

6.2 SPEED CHECKING

The flight path co-ordinates were then run through a program that calculated the speed of the aircraft between each recovered fiducial. This was done for each flight line and a printout was produced showing the average speed of the aircraft between the recovered fiducials, the average distance per fiducial, the standard deviation of the aircraft's speed and the length of the flight line. This printout was then used to check for any errors in the flight path recovery or digitising.

6.3 FLIGHT PATH MAPS

The flight path co-ordinate data was then used to generate flight path plots at a scale of 1:100,000. These sheets were suitably annotated with Australian Map Grid co-ordinates and the location of all the control points used to control the photography. The recovered fiducials were indicated by a small circle and every fifth circle was numbered with the fiducial. Every two hundredth fiducial was indicated using a | symbol.

6.4 MAGNETIC CONTOUR MAPS

To produce the magnetic contour maps the magnetic data was levelled in the following way.

- a) A diurnal correction was calculated for each fiducial using -
$$\text{Corr} = \text{Base station reading} - \text{diurnal base value.}$$
For this job a diurnal base value of 54,900 nT was used. This correction was then added to the data.
- b) The flight line data was then levelled to the tie lines by finding the difference between the flight line and the tie line where they crossed and correcting the flight line for this difference.
- c) The IGRF was then subtracted from the data. The model used was IGRF model 1985 and secular variation model for years 1985 - 1990. A base value of 1,000 nT represented a total field value of 55,000 nT.

The levelled data was then used to produce hand drawn contour maps on the standard 1:100,000 map sheets. A contour interval of 10 nT was used.

6.5 STACKED MAGNETIC PROFILE MAPS

The above levelled data was then used to produce 1:100,000 stacked magnetic profile maps. The maps were presented using two different vertical scales.

- a) The first presentation used a vertical scale of 500 nT/cm and base level of 1,000 nT. For this map every line was plotted.
- b) The second presentation used a vertical scale of 150 nT/cm and a base level of 1,000 nT. For this presentation every fourth line was plotted and so four map sheets were plotted each one with a different set of lines.

6.6 STACKED ALTIMETER PROFILE MAPS

Stacked altimeter profiles were produced for each 1:100,000 map sheet using a vertical scale of 100 m/cm and a base value of 100 m.

6.7 LOCATED DATA TAPES

For each 1:100,000 map sheet a located data tape complying with the South Australian Department of Mines and Energy format was produced. The tapes are 9-track 1600 bpi and in ASCII code.

7. SYSTEM CALIBRATION AND CHECKS

7.1 MAGNETIC HEADING ERRORS

The aircraft was statically compensated for magnetic heading on the ground in an area of low magnetic gradient before the survey.

Prior to the flying of the area the heading error was checked and finally tuned by flying over a point with very low gradient in many different directions.

Pitch and roll tests were also conducted. The heading error flying checks were recorded in both digital and analog modes. The result of these checks was that heading errors were maintained throughout the survey to a value less than 2 nT.

7.2 SPECTROMETER CALIBRATION

The spectrometer was set up such that the total count channel recorded all counts between 0.321 MeV and 2.995 MeV.

Potassium channel recorded all counts between 1.368 and 1.568 MeV.

Uranium channel (using 214 Bi peak) recorded all counts between 1.653 and 1.854 MeV.

The Thorium channel (using th 208 T1 peak) recorded all counts between 2.393 and 2.795 MeV.

Before and after each days flying the following tests were carried out:

- (a) Ground hand sample checks were carried out on the spectrometer using samples of uranium and thorium. These were preceded and followed by a background check. Each check was given a unique line number with digital and analog records acquired for a period of 120 seconds. The samples are designed to relocate accurately under the aircraft fuselage:

Daily averages were calculated for these checks and the operator maintained the total count average for each sample to within 10% of the first check of the survey.

- (b) A high level background test line was flown at 850m ground clearance with digital and analog records acquired for a period of 200 seconds.
- (c) A fixed test line was flown for 5 kms at survey altitude and speed in a constant direction with digital and analog records acquired.

All test lines were recorded both in digital and analog form and were given unique psuedo line numbers. This data was presented on 9 Track Tape with a detailed statistical summary of each line plus format documentation.

All spectrometer data that was recorded digitally was unstripped, but was normalised to counts/second. All analog data was recorded in stripped form normalised to counts/second.

7.3 ALTIMETER CALIBRATION

To verify the linearity and accuracy of the radar altimeter in series of lines were flown. The results are summarised below.

Test Height <u>metres</u>	Test Height <u>feet</u>	Recorded Height <u>metres</u>
30	98	30
60	197	57
100	328	102
150	492	149
200	656	220
300	984	311

8. SURVEY LOGISTICS

8.1 OPERATING BASE

Aircraft Operating Base:

All day to day aircraft operations for this job were carried out from Yulara airport. After each flight the survey aircraft returned to Yulara where mains power was available for maintaining power to the crystal heater overnight and providing auxillary power to the aircraft for ground running.

8.2 PERSONNEL

The following Aerodata employees were involved with the flying and processing of the data:

PILOTS:	A McCambridge
	G Kalotay
OPERATOR:	K Harrington
NAVIGATOR:	R Norman
TECHNICIAN :	K Harrington
FLIGHT PATH RECOVERY:	D Rettura
DATA PROCESSING:	P Chambers
	D Kelledy

8.3 PRODUCTION SUMMARY

(a) FLYING

Flying commenced	29 October 1986
Flying completed	14 November 1986

TOTAL LINE KILOMETRES FLOWN	20,110
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Jan Cook.

I C COOK
CONTRACTS MANAGER
AERODATA HOLDINGS LIMITED

APPENDIX 1

DALGETY TEST RANGE

A series of test lines were flown over the Dalgety test range at altitudes ranging from 30 m to 300 m. Another series of lines at the same altitudes were flown over Eucumbene Dam to determine the approximate levels of atmospheric radon. These lines were used to correct the test range data.

RADIOMETRIC DETECTION DETAILS

- (a) Geometrics GR800B 256 channel spectrometer.
- (b) 2 only Geometrics DET 1024 slab NaI crystal sensor (33 litres in volume).

This equipment is installed in a Shrike Commander 500S aircraft VH-MEH.

TEST FLIGHT RESULTS

1) Raw Results

<u>Planned</u> <u>Height</u>	<u>Mean Actual</u> <u>Height</u>	<u>Total</u>	<u>Potassium</u>	<u>Uranium</u>	<u>Thorium</u>	<u>Cosmic</u>
30	34.9	3174	427	84	117	45
60	65.7	2651	344	72	97	45
80	85.2	2344	295	66	85	45
100	106.1	1981	238	57	73	45
120	131.8	1756	208	52	64	45
150	187.2	1342	147	44	52	47
200	225.4	1147	122	39	43	50
300	380.1	948	98	34	37	51

- 2) After stripping and background removal.
 Stripping alpha = 0.346, beta = 0.461, gamma = 0.755,
 delta = 0.065.
 Over water data used as background each level removed from
 equivalent level on test range.

30	34.9	2906	330	35	103	-
60	65.7	2377	248	30	82	-
80	85.2	2067	217	28	70	-
100	106.1	1700	170	22	58	-
120	131.8	1478	144	21	58	-
150	187.2	1050	92	16	37	-
200	225.4	851	72	13	30	-
300	280.1	646	53	10	23	-

NOTE: To this stage all heights are in metres and
 radiometric readings are in counts per second.

- 3) After altitude attenuation and conversion to ground
 concentrations.

	<u>Altitude</u> <u>Attenuation</u>	<u>Correlation</u> <u>Coefficient %</u>
Tot	0.006185443	99.71
Pot	0.007590334	99.61
Ura	0.005031402	99.57
Tho	0.006065947	99.41

Ground concentration conversion factors.

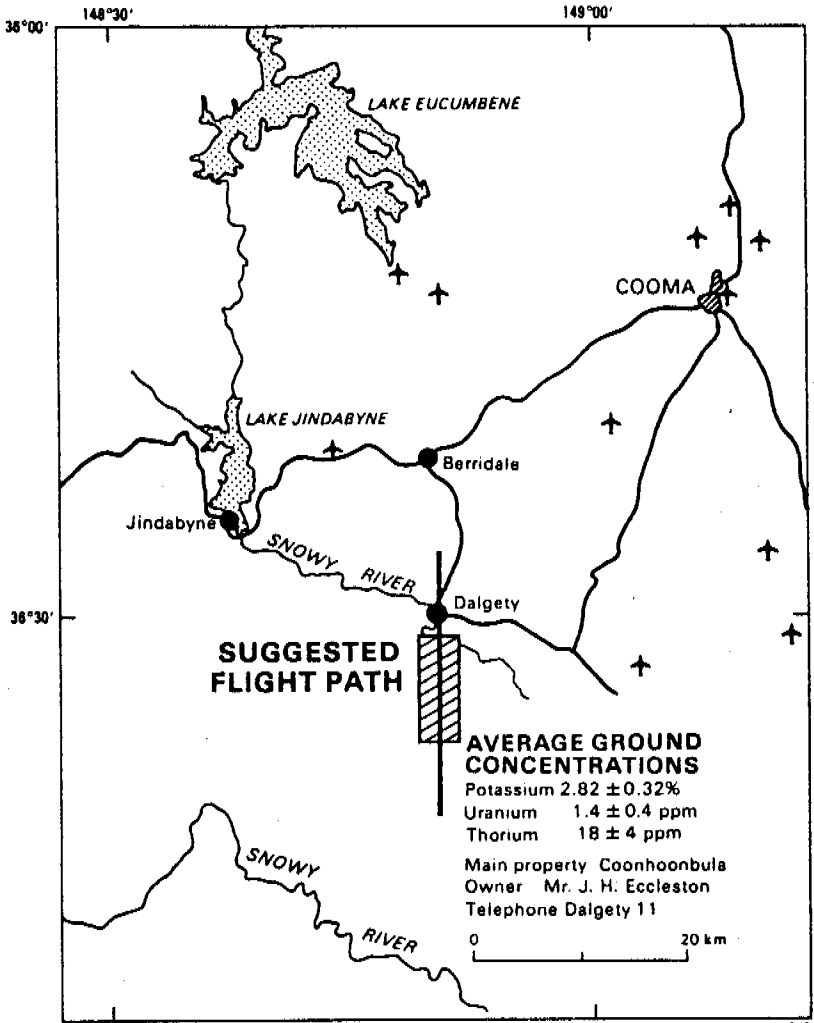
Tot	Divide	by	200
Pot	"	"	80
Ura	"	"	27.84
Tho	"	"	6

Planned <u>Height</u>	Mean Actual <u>Height</u>	Total	Potassium	Uranium	Thorium
30	34.9	10.320	2.710	0.957	12.227
60	65.7	10.214	2.679	0.946	11.819
80	85.2	10.022	2.606	0.979	11.389
100	106.1	9.374	2.392	0.855	10.721
120	131.8	9.563	2.466	0.949	10.533
150	187.2	9.558	2.402	0.938	11.189
200	225.4	9.825	2.516	0.949	11.203
300	280.1	10.433	2.770	0.951	12.207
Mean		9.914	2.568	0.940	11.411
Stand Deviation		0.394	0.145	0.037	0.633

Note: The units for the radiometric data above are in -

Total Count - ppm eUr
Potassium - <K
Uranium - ppm eUr
Thorium - ppm eTh

These results are similar but generally lower than the results given by the BMR as shown on the following page.



DALGETY TEST SITE

APPENDIX 2

COSMIC AND AIRCRAFT BACKGROUND TESTS

A series of high level test lines were flown to determine the cosmic and aircraft background corrections.

The results are set out below. The radiometric units are in counts per second and the height is in metres.

Altitude	Total count	Potassium	Uranium	Thorium	Cosmic
1005	480	38	19	17	42
1505	316	25	15	13	54
2005	356	28	17	16	75
2505	406	30	20	20	97
3005	481	35	24	24	129
3048	486	35	24	26	132

The cosmic and aircraft background corrections were calculated using the relationship $y = mX + b$

where

- Y = Counts in window
- m = Cosmic correction
- X = Counts in cosmic window
- b = Aircraft background

Below are shown the correction factors.

	Aircraft Background	Cosmic Corrections
Total Count	191	2.240
Potassium	18	0.126
Uranium	8	0.120
Thorium	5	0.156

SURVEY CALIBRATION RESULTS

For each flight a series of spectrometer calibration tests were run at the beginning and end of the flight.

These included hand sample and background checks carried out and on the ground plus low and high level test lines.

The averages for each window were calculated and are summarised below. For each flight the stripping co-efficients were calculated using this data and this summary is shown at the end of this appendix. The stripping co-efficients calculated were -:

Alpha = counts in Ur channel/counts in Th channel due to a Th source.

Beta = counts in K channel/counts in Th channel due to Th source.

Gamma = counts in K channel/counts in Ur channel due to Ur source.

Delta = counts in Th channel/counts in Ur channel due to Th source.

A 9-track tape of all calibration lines was produced and a format of this tape is included.

AERODATA HOLDINGS LTD

CALIBRATION TAPE FORMAT

CLIENT N.T. DEPARTMENT OF MINES & ENERGEY

AREA KULGERA WEST SURVEY

TAPE GENERATION MARCH 1987

LOGICAL RECORD LENGTH 69 Characters

BLOCK SIZE 4002 Characters

TAPE DENSITY 1600 bpi

RECORD FORMAT

<u>COLUMNS</u>	<u>DESCRIPTION</u>
1- 8	Date DD/MM/YY
9-16	HH.MM.SS
17-20	Flight Number
21-24	Cycle Rate
25-30	Line No.
31-36	Fid No.
37-44	Mag
45-48	Alt (m)
49-53	Total Count
54-57	Potassium
58-61	Uranium
62-65	Thorium
66-69	Cosmic

TAPE FORMAT

RECORD (1)

RECORD (N)	LAST RECORD IS BLOCKED OUT WITH ZEROS
END OF FILE MARK	END OF LINE

RECORD (1)

RECORD (N)	LAST RECORD IS BLOCKED OUT WITH ZEROS
END OF FILE MARK	END OF LINE
END OF FILE MARK	END OF TAPE

CALIBRATION LINE FORMATS

SPECTROMETER LINES

START OF FLIGHT

501	BACKGROUND
502	URANIUM
503	THORIUM
504	BACKGROUND
505	POTASSIUM
506	CAESIUM
507	
508	LOW LEVEL TEST LINE
509	HIGH LEVEL LINE

END OF FLIGHT

601	BACKGROUND
602	URANIUM
603	THORIUM
604	BACKGROUND
606	POTASSIUM
606	CAESIUM
607	
608	LOW LEVEL TEST LINE
609	HIGH LEVEL LINE

PARALLAX LINES

8010 - 8099

ALTIMETER CALIBRATIONS

8100 - 8199

HEADING CHECKS

8200 - 8999

NOTE

Line numbers are a five digit integer.

The first digit is the area number and the last digit is the attempt number.

The line numbers shown above do not show the area number.

The spectrometer lines do not show the attempt number.

KULGERA WEST SURVEY CALIBRATION SUMMARY

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
23:10:86	2		60					URANIUM	15020N	001038
TOTAL COUNT				9631	10280	9938	140			
POTASSIUM				713	859	781	34			
URANIUM				587	713	642	32			
THORIUM				198	293	241	21			
COSMIC				22	68	45	10			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
23:10:86	2		60					THORIUM	15030S	001039
TOTAL COUNT				10919	11507	11202	144			
POTASSIUM				579	735	660	31			
URANIUM				252	372	321	26			
THORIUM				729	891	818	37			
COSMIC				62	119	85	12			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
23:10:86	2		60					CESIUM	15060N	001040
TOTAL COUNT				7838	8367	8105	120			
POTASSIUM				326	426	372	24			
URANIUM				69	149	108	15			
THORIUM				178	266	212	19			
COSMIC				26	59	39	7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
23:10:86	2		63					BACKGROUND	15040S	001041
TOTAL COUNT				3392	3715	3587	72			
POTASSIUM				314	423	366	25			
URANIUM				74	146	109	14			
THORIUM				160	260	209	19			
COSMIC				21	60	38	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
23:10:86	2		61					HIGH LEVEL	16090S	001052
TOTAL COUNT				244	361	306	22			
POTASSIUM				14	40	28	6			
URANIUM				5	29	15	5			
THORIUM				5	26	15	5			
COSMIC				28	65	47	9			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
23:10:86	2		96					TEST LINE	16080S	001053
TOTAL COUNT				1571	2238	1942	130			
POTASSIUM				181	327	245	27			
URANIUM				31	81	51	9			
THORIUM				42	110	77	12			
COSMIC				22	56	38	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
23:10:86	2		60					BACKGROUND	16010S	001054
TOTAL COUNT				3377	3721	3544	74			
POTASSIUM				315	439	364	24			
URANIUM				81	125	106	12			
THORIUM				177	250	209	16			
COSMIC				21	55	38	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
23:10:86	2		60					URANIUM	16020N	001055
TOTAL COUNT				9543	10205	9902	133			
POTASSIUM				680	881	767	38			
URANIUM				539	748	645	39			
THORIUM				186	284	234	20			
COSMIC				23	63	44	9			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
23:10:86	2		60					THORIUM	16030S	001056
TOTAL COUNT				10833	11451	11121	134			
POTASSIUM				598	740	657	30			
URANIUM				262	355	311	22			
THORIUM				730	890	811	36			
COSMIC				49	112	81	13			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
23:10:86	2		60					CESIUM	16060N	001057
TOTAL COUNT				7683	8266	8022	115			
POTASSIUM				295	424	366	26			
URANIUM				67	138	104	13			
THORIUM				155	246	204	18			
COSMIC				26	57	39	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
23:10:86	3		60					CESIUM	15060S	002001
TOTAL COUNT				7731	8222	7985	100			
POTASSIUM				324	444	371	24			
URANIUM				75	147	110	14			
THORIUM				177	244	211	17			
COSMIC				23	62	39	7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
23:10:86	3		60					URANIUM	15020N	002002
TOTAL COUNT				9563	10302	9875	142			
POTASSIUM				709	856	787	37			
URANIUM				563	759	650	34			
THORIUM				191	281	242	19			
COSMIC				27	65	46	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
23:10:86	3		60					THORIUM	15030S	002003
TOTAL COUNT				10821	11500	11193	142			
POTASSIUM				561	763	656	38			
URANIUM				285	378	333	21			
THORIUM				699	920	825	42			
COSMIC				67	119	88	12			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
23:10:86	3		60					BACKGROUND	15040N	002004
TOTAL COUNT				3404	3730	3557	75			
POTASSIUM				302	440	369	25			
URANIUM				73	142	109	13			
THORIUM				160	293	210	22			
COSMIC				21	54	34	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
24:10:86	3		106					TEST LINE	15080S	002005
TOTAL COUNT				1585	2371	1987	154			
POTASSIUM				178	324	249	30			
URANIUM				30	81	52	10			
THORIUM				48	116	77	12			
COSMIC				13	55	35	7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
24:10:86	3		865					HIGH LEVEL	15090E	002007
TOTAL COUNT				281	446	363	28			
POTASSIUM				12	59	30	7			
URANIUM				5	37	18	5			
THORIUM				2	34	13	5			
COSMIC				19	74	42	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
24:10:86	3		66					HIGH LEVEL	16091W	002009
TOTAL COUNT				264	386	331	25			
POTASSIUM				12	49	27	7			
URANIUM				5	26	16	5			
THORIUM				5	29	15	5			
COSMIC				37	74	49	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
24:10:86	3		101					TEST LINE	16080S	002010
TOTAL COUNT				1594	2179	1941	117			
POTASSIUM				183	305	243	27			
URANIUM				33	75	53	9			
THORIUM				44	106	75	12			
COSMIC				14	59	38	7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
24:10:86	4		60					CESIUM	15060S	002015
TOTAL COUNT				7855	8406	8102	111			2

URANIUM	84	144	111	14
THORIUM	175	249	206	17
COSMIC	23	61	38	8

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
24:10:86	4		60					URANIUM	15020N	002016
TOTAL COUNT				9596	10162	9916	125			
POTASSIUM				717	895	788	36			
URANIUM				561	700	635	27			
THORIUM				194	304	244	22			
COSMIC				28	60	44	7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
24:10:86	4		60					THORIUM	15030S	002017
TOTAL COUNT				10873	11500	11184	115			
POTASSIUM				579	720	648	30			
URANIUM				285	374	330	20			
THORIUM				762	943	833	32			
COSMIC				60	107	81	11			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
24:10:86	4		60					BACKGROUND	15040N	002018
TOTAL COUNT				3279	3703	3541	79			
POTASSIUM				313	418	368	24			
URANIUM				74	149	106	13			
THORIUM				155	248	207	19			
COSMIC				17	57	35	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
24:10:86	4		118					TEST LINE	15080S	002019
TOTAL COUNT				1608	2380	1927	150			
POTASSIUM				153	332	249	30			
URANIUM				33	77	52	9			
THORIUM				45	111	77	13			
COSMIC				16	50	34	7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
25:10:86	4		100					HIGH LEVEL	16090W	002022
TOTAL COUNT				295	394	348	20			
POTASSIUM				14	48	29	7			
URANIUM				8	34	18	6			
THORIUM				2	29	14	5			
COSMIC				22	71	47	9			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
25:10:86	4		99					TEST LINE	16080S	002023
TOTAL COUNT				1674	2428	2056	155			
POTASSIUM				175	335	263	31			
URANIUM				36	86	57	10			
THORIUM				50	111	82	13			
COSMIC				22	60	37	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
25:10:86	4		60					BACKGROUND	16010N	002024
TOTAL COUNT				3299	3710	3561	77			
POTASSIUM				309	460	371	28			
URANIUM				71	139	107	12			
THORIUM				164	244	209	18			
COSMIC				21	65	39	9			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
25:10:86	4		60					URANIUM	16020S	002025
TOTAL COUNT				9582	10151	9888	136			
POTASSIUM				705	854	776	36			
URANIUM				513	720	646	37			
THORIUM				201	294	240	20			
COSMIC				22	70	45	10			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
25:10:86	4		60					THORIUM	16030N	002026
TOTAL COUNT				10770	11479	11118	133			
POTASSIUM				580	731	652	34			
URANIUM				277	388	328	24			
THORIUM				714	910	813	36			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
25:10:86	4		60						CESIUM	16060S	002027
TOTAL COUNT				7666	8273	8009		109			
POTASSIUM				305	421	369		26			
URANIUM				77	146	111		14			
THORIUM				162	254	202		17			
COSMIC				25	67	43		8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	PRE-FLIGHT	LINE	FILE
25:10:86	5		60						CESIUM	15060S	002028
TOTAL COUNT				7770	8322	8053		120			
POTASSIUM				320	451	368		23			
URANIUM				75	154	112		15			
THORIUM				175	243	205		17			
COSMIC				23	56	35		6			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	PRE-FLIGHT	LINE	FILE
25:10:86	5		60						URANIUM	15020N	002029
TOTAL COUNT				9632	10325	9942		125			
POTASSIUM				693	876	785		37			
URANIUM				552	725	645		34			
THORIUM				191	298	245		21			
COSMIC				23	65	43		8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	PRE-FLIGHT	LINE	FILE
25:10:86	5		60						THORIUM	15031N	002031
TOTAL COUNT				10959	11515	11217		131			
POTASSIUM				544	741	649		31			
URANIUM				275	381	328		24			
THORIUM				728	898	827		37			
COSMIC				57	112	84		12			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	PRE-FLIGHT	LINE	FILE
25:10:86	5		60						BACKGROUND	15040S	002032
TOTAL COUNT				3325	3713	3541		70			
POTASSIUM				321	404	365		18			
URANIUM				82	144	108		12			
THORIUM				133	247	207		19			
COSMIC				14	51	34		8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	PRE-FLIGHT	LINE	FILE
25:10:86	5		118						TEST LINE	15080S	002033
TOTAL COUNT				1418	2122	1808		138			
POTASSIUM				148	321	228		30			
URANIUM				28	72	49		8			
THORIUM				33	103	71		13			
COSMIC				14	55	33		8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	PRE-FLIGHT	LINE	FILE
25:10:86	5		59						HIGH LEVEL	15090E	002035
TOTAL COUNT				254	361	313		23			
POTASSIUM				12	42	27		6			
URANIUM				5	29	16		5			
THORIUM				3	25	13		4			
COSMIC				23	69	42		8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
26:10:86	5		159						HIGH LEVEL	16090S	004028
TOTAL COUNT				290	432	365		25			
POTASSIUM				12	48	30		7			
URANIUM				6	32	19		6			
THORIUM				5	32	14		4			
COSMIC				26	69	46		8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
26:10:86	5		96						TEST LINE	16080S	004029
TOTAL COUNT				1619	2464	2063		157			
POTASSIUM				192	331	263		31			
URANIUM				31	77	56		10			
THORIUM				56	117	82		13			
COSMIC				16	53	35		8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
26:10:86	5		60						BACKGROUND	16010S	004032

TOTAL COUNT	3341	3741	3361	74
POTASSIUM	318	442	363	25
URANIUM	78	134	106	12
THORIUM	163	249	211	17
COSMIC	17	57	34	8

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
26:10:86	5		60					URANIUM	16020N	004033
TOTAL COUNT				9667	10224	9965	124			
POTASSIUM				715	891	784	32			
URANIUM				563	697	637	30			
THORIUM				176	301	239	22			
COSMIC				23	61	42	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
26:10:86	5		60					THORIUM	16030S	004034
TOTAL COUNT				10899	11584	11265	140			
POTASSIUM				596	723	658	31			
URANIUM				273	374	322	23			
THORIUM				739	894	825	34			
COSMIC				59	114	85	11			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
26:10:86	5		60					CESIUM	16060N	004035
TOTAL COUNT				7670	8332	8056	127			
POTASSIUM				313	418	367	24			
URANIUM				83	138	108	13			
THORIUM				170	259	207	16			
COSMIC				20	57	36	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
26:10:86	6		60					CESIUM	15061N	005002
TOTAL COUNT				7903	8335	8125	105			
POTASSIUM				301	410	366	23			
URANIUM				82	141	112	14			
THORIUM				171	258	208	18			
COSMIC				20	71	37	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
26:10:86	6		60					URANIUM	15020S	005003
TOTAL COUNT				9745	10387	10031	132			
POTASSIUM				705	861	787	37			
URANIUM				562	727	648	32			
THORIUM				207	318	255	22			
COSMIC				27	72	45	9			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
26:10:86	6		60					THORIUM	15030N	005004
TOTAL COUNT				11059	11668	11311	137			
POTASSIUM				592	734	651	30			
URANIUM				260	403	333	26			
THORIUM				738	917	832	32			
COSMIC				59	121	86	12			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
26:10:86	6		60					BACKGROUND	15040S	005005
TOTAL COUNT				3426	3775	3607	71			
POTASSIUM				299	423	372	24			
URANIUM				78	152	110	13			
THORIUM				166	250	210	18			
COSMIC				21	57	35	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
26:10:86	6		112					TEST LINE	15080S	005007
TOTAL COUNT				1625	2462	1994	142			
POTASSIUM				187	334	252	29			
URANIUM				34	81	55	9			
THORIUM				47	116	77	13			
COSMIC				12	48	33	7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
26:10:86	6		60					HIGH LEVEL	15090E	005009
TOTAL COUNT				293	408	344	23			
POTASSIUM				11	48	30	7			
URANIUM				8	28	17	4			
THORIUM				7	27	13	4			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
27:10:86	6		61						HIGH LEVEL	16090W	005010
TOTAL COUNT				293	409	347		24			
POTASSIUM				14	43	29		6			
URANIUM				6	32	18		6			
THORIUM				2	26	13		5			
COSMIC				29	73	47		9			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
27:10:86	6		97						TEST LINE	16080S	005012
TOTAL COUNT				1607	2346	2035		140			
POTASSIUM				170	312	256		27			
URANIUM				28	77	56		10			
THORIUM				48	117	80		13			
COSMIC				19	55	37		7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
27:10:86	6		60						BACKGROUND	16010S	005013
TOTAL COUNT				3382	3726	3557		73			
POTASSIUM				296	432	365		27			
URANIUM				84	138	106		12			
THORIUM				174	249	208		16			
COSMIC				19	52	37		7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
27:10:86	6		60						URANIUM	16020N	005014
TOTAL COUNT				9536	10177	9928		141			
POTASSIUM				701	863	779		36			
URANIUM				561	737	640		31			
THORIUM				199	277	241		18			
COSMIC				27	65	44		8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
27:10:86	6		60						THORIUM	16030S	005015
TOTAL COUNT				10848	11494	11175		138			
POTASSIUM				578	734	658		32			
URANIUM				261	379	324		21			
THORIUM				707	919	825		40			
COSMIC				57	122	84		13			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	PRE-FLIGHT	LINE	FILE
27:10:86	7		60						CESIUM	15060S	005017
TOTAL COUNT				7853	8374	8102		111			
POTASSIUM				327	453	372		27			
URANIUM				77	151	111		13			
THORIUM				169	246	206		17			
COSMIC				23	59	38		7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	PRE-FLIGHT	LINE	FILE
27:10:86	7		60						URANIUM	15020N	005018
TOTAL COUNT				9667	10243	9924		126			
POTASSIUM				692	843	777		32			
URANIUM				568	730	644		35			
THORIUM				208	286	242		17			
COSMIC				25	65	44		9			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	PRE-FLIGHT	LINE	FILE
27:10:86	7		60						THORIUM	15030S	005019
TOTAL COUNT				10943	11661	11291		155			
POTASSIUM				589	737	658		31			
URANIUM				277	394	328		24			
THORIUM				747	924	834		40			
COSMIC				55	111	85		12			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	PRE-FLIGHT	LINE	FILE
27:10:86	7		61						BACKGROUND	15040N	005020
TOTAL COUNT				3406	3755	3578		75			
POTASSIUM				301	415	365		25			
URANIUM				81	131	108		10			
THORIUM				163	252	207		18			
COSMIC				19	59	35		7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	PRE-FLIGHT	LINE	FILE
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	151	152	153	154
TOTAL COUNT	1668	2266	2010	130
POTASSIUM	178	334	260	31
URANIUM	36	80	57	9
THORIUM	47	108	78	12
COSMIC	17	58	34	7

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	PRE-FLIGHT	LINE	FILE
27:10:86	7		65						HIGH LEVEL	15090N	005023
TOTAL COUNT				301	415	367		23			
POTASSIUM				15	54	32		8			
URANIUM				8	29	18		5			
THORIUM				2	26	14		5			
COSMIC				23	68	45		9			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
28:10:86	7		60						HIGH LEVEL	16090W	005024
TOTAL COUNT				349	465	401		24			
POTASSIUM				14	52	33		8			
URANIUM				11	36	22		6			
THORIUM				5	29	14		5			
COSMIC				26	65	44		9			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
28:10:86	7		116						TEST LINE	16080S	005026
TOTAL COUNT				1490	2355	1997		173			
POTASSIUM				164	332	251		32			
URANIUM				31	88	59		10			
THORIUM				48	114	79		13			
COSMIC				20	66	39		8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
28:10:86	7		60						BACKGROUND	16010S	005027
TOTAL COUNT				3408	3809	3568		76			
POTASSIUM				313	416	368		23			
URANIUM				78	152	108		14			
THORIUM				177	255	205		17			
COSMIC				19	57	35		7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
28:10:86	7		60						URANIUM	16020N	005028
TOTAL COUNT				9618	10250	9902		122			
POTASSIUM				668	861	779		36			
URANIUM				559	711	640		32			
THORIUM				193	317	239		23			
COSMIC				20	72	44		10			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
28:10:86	7		60						THORIUM	16030S	005029
TOTAL COUNT				10883	11479	11191		129			
POTASSIUM				575	742	660		36			
URANIUM				278	377	326		20			
THORIUM				725	937	826		40			
COSMIC				57	112	86		12			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
28:10:86	7		60						CESIUM	16060N	005030
TOTAL COUNT				7818	8367	8105		121			
POTASSIUM				307	431	373		25			
URANIUM				82	147	110		15			
THORIUM				169	244	205		18			
COSMIC				25	66	38		7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	PRE-FLIGHT	LINE	FILE
29:10:86	8		60						CESIUM	15060S	005031
TOTAL COUNT				7785	8379	8086		115			
POTASSIUM				309	431	369		24			
URANIUM				80	144	109		13			
THORIUM				172	247	208		18			
COSMIC				18	56	37		8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	PRE-FLIGHT	LINE	FILE
29:10:86	8		60						URANIUM	15020N	005032
TOTAL COUNT				9565	10172	9913		129			
POTASSIUM				690	854	777		35			
URANIUM				222	320	266		21			
THORIUM				400	520	459		31			
COSMIC				55	138	87		11			

THORIUM	188	286	242	19
COSMIC	23	60	43	8

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	PRE-FLIGHT	LINE	FILE
29:10:86	8		60						THORIUM	15030S	005033
TOTAL COUNT				10688	11394	11134		137			
POTASSIUM				574	718	646		29			
URANIUM				275	379	316		20			
THORIUM				740	938	826		36			
COSMIC				57	109	83		11			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	PRE-FLIGHT	LINE	FILE
29:10:86	8		60						BACKGROUND	15040N	005034
TOTAL COUNT				3361	3746	3534		84			
POTASSIUM				301	413	365		21			
URANIUM				78	139	105		12			
THORIUM				161	271	207		19			
COSMIC				13	55	35		9			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	PRE-FLIGHT	LINE	FILE
29:10:86	8		106						TEST LINE	15080S	005036
TOTAL COUNT				1639	2246	1923		131			
POTASSIUM				176	308	247		27			
URANIUM				23	91	52		10			
THORIUM				34	108	75		13			
COSMIC				17	53	33		7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	PRE-FLIGHT	LINE	FILE
29:10:86	8		80						HIGH LEVEL	15090E	005039
TOTAL COUNT				299	963	411		151			
POTASSIUM				14	91	35		13			
URANIUM				8	40	20		7			
THORIUM				5	50	17		10			
COSMIC				25	65	43		9			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
29:10:86	8		60						HIGH LEVEL	16090W	005040
TOTAL COUNT				327	426	377		22			
POTASSIUM				12	46	33		7			
URANIUM				6	37	18		5			
THORIUM				5	25	16		5			
COSMIC				29	69	46		8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
29:10:86	8		98						TEST LINE	16080S	005043
TOTAL COUNT				1629	2349	1959		138			
POTASSIUM				173	343	251		32			
URANIUM				28	80	55		10			
THORIUM				55	108	77		11			
COSMIC				22	58	38		8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
29:10:86	8		60						BACKGROUND	16010S	005044
TOTAL COUNT				3373	3671	3521		64			
POTASSIUM				302	415	366		24			
URANIUM				66	134	105		13			
THORIUM				153	245	205		19			
COSMIC				21	51	36		7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
29:10:86	8		60						URANIUM	16020N	005045
TOTAL COUNT				9435	10165	9850		126			
POTASSIUM				651	853	770		40			
URANIUM				571	729	641		36			
THORIUM				184	282	234		20			
COSMIC				20	63	45		8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
29:10:86	8		60						THORIUM	16030S	005046
TOTAL COUNT				10771	11450	11120		146			
POTASSIUM				594	748	663		35			
URANIUM				258	366	318		21			
THORIUM				712	898	825		39			
COSMIC				54	117	84		12			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
29:10:86	8		60					CESIUM	16060N	005047
TOTAL COUNT				7728	8321	8051	109			
POTASSIUM				316	434	372	23			
URANIUM				79	149	110	13			
THORIUM				172	254	205	18			
COSMIC				18	59	39	8			
DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
29:10:86	9		60					CESIUM	15060S	005048
TOTAL COUNT				7464	8306	8039	137			
POTASSIUM				317	457	371	26			
URANIUM				72	136	108	13			
THORIUM				175	248	208	15			
COSMIC				21	59	36	7			
DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
29:10:86	9		60					URANIUM	15020N	005049
TOTAL COUNT				9630	10290	9896	127			
POTASSIUM				688	867	779	39			
URANIUM				565	722	646	33			
THORIUM				201	297	244	19			
COSMIC				23	61	44	9			
DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
29:10:86	9		60					THORIUM	15030S	005050
TOTAL COUNT				10815	11456	11148	151			
POTASSIUM				570	747	650	31			
URANIUM				282	388	327	22			
THORIUM				701	927	825	38			
COSMIC				44	121	86	14			
DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
29:10:86	9		60					BACKGROUND	15040N	005051
TOTAL COUNT				3332	3685	3538	72			
POTASSIUM				311	442	368	27			
URANIUM				71	131	106	14			
THORIUM				172	252	210	16			
COSMIC				19	54	36	7			
DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
29:10:86	9		94					TEST LINE	15080S	005053
TOTAL COUNT				1635	2272	1903	133			
POTASSIUM				189	310	242	26			
URANIUM				30	78	53	9			
THORIUM				45	105	76	11			
COSMIC				19	55	36	8			
DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
29:10:86	9		64					HIGH LEVEL	15090N	005054
TOTAL COUNT				273	387	330	23			
POTASSIUM				15	45	30	6			
URANIUM				5	34	17	6			
THORIUM				2	25	12	4			
COSMIC				31	60	44	8			
DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
30:10:86	9		70					HIGH LEVEL	16090W	005055
TOTAL COUNT				316	417	359	20			
POTASSIUM				17	54	30	7			
URANIUM				9	31	18	4			
THORIUM				6	26	14	4			
COSMIC				29	69	49	8			
DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
30:10:86	9		105					TEST LINE	16080S	005057
TOTAL COUNT				1549	2334	1918	134			
POTASSIUM				162	324	244	28			
URANIUM				31	88	54	10			
THORIUM				44	107	73	12			
COSMIC				20	61	38	8			
DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
30:10:86	9		61					BACKGROUND	16010S	005058
TOTAL COUNT				3490	3844	3630	73			
POTASSIUM				212	310	271	25			

URANIUM				82	152	113	13
THORIUM				172	246	205	16
COSMIC				16	52	36	8

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
30:10:86	9		59					URANIUM	16020N	005059
TOTAL COUNT				9774	10387	10029	139			
POTASSIUM				697	865	783	39			
URANIUM				568	703	647	31			
THORIUM				186	301	237	20			
COSMIC				27	68	44	9			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
30:10:86	9		60					THORIUM	16030S	005060
TOTAL COUNT				10963	11653	11294	144			
POTASSIUM				585	737	665	32			
URANIUM				265	374	329	23			
THORIUM				730	901	823	35			
COSMIC				54	116	85	12			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
30:10:86	9		60					CESIUM	16060N	005061
TOTAL COUNT				7758	8403	8137	130			
POTASSIUM				307	438	376	25			
URANIUM				93	152	123	13			
THORIUM				166	249	210	20			
COSMIC				20	61	39	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
31:10:86	10		60					CESIUM	15060S	005062
TOTAL COUNT				7703	8170	7926	115			
POTASSIUM				314	422	368	23			
URANIUM				80	146	108	13			
THORIUM				166	262	206	16			
COSMIC				18	52	36	7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
31:10:86	10		60					URANIUM	15020N	005063
TOTAL COUNT				9630	10235	9915	133			
POTASSIUM				698	874	772	36			
URANIUM				585	708	644	29			
THORIUM				186	299	244	21			
COSMIC				25	70	43	10			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
31:10:86	10		60					THORIUM	15030S	005064
TOTAL COUNT				10845	11512	11194	155			
POTASSIUM				572	736	654	35			
URANIUM				270	393	325	23			
THORIUM				746	905	828	34			
COSMIC				57	111	83	12			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
31:10:86	10		60					BACKGROUND	15040N	005065
TOTAL COUNT				3384	3755	3547	87			
POTASSIUM				309	440	363	24			
URANIUM				70	130	103	13			
THORIUM				173	256	211	18			
COSMIC				17	54	36	7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
31:10:86	10		114					TEST LINE	15080S	005067
TOTAL COUNT				1509	2195	1852	148			
POTASSIUM				169	297	234	27			
URANIUM				30	73	49	9			
THORIUM				50	121	75	12			
COSMIC				14	50	33	7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
31:10:86	10		75					HIGH LEVEL	15090E	005070
TOTAL COUNT				224	369	297	26			
POTASSIUM				8	46	27	6			
URANIUM				3	23	13	5			
THORIUM				5	29	14	5			
COSMIC				29	63	45	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
31:10:86	10		60						HIGH LEVEL	16090W	005071
TOTAL COUNT				251	347	307		20			
POTASSIUM				11	45	27		6			
URANIUM				6	25	14		4			
THORIUM				5	29	14		5			
COSMIC				32	66	47		8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
31:10:86	10		110						TEST LINE	16080S	005073
TOTAL COUNT				1454	2312	1861		146			
POTASSIUM				168	317	234		27			
URANIUM				27	75	51		10			
THORIUM				48	108	74		13			
COSMIC				22	56	37		7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
31:10:86	10		60						BACKGROUND	16010S	005074
TOTAL COUNT				3287	3692	3490		74			
POTASSIUM				315	411	367		24			
URANIUM				71	130	102		12			
THORIUM				164	250	206		18			
COSMIC				22	51	36		7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
31:10:86	10		60						URANIUM	16020N	005075
TOTAL COUNT				9534	10177	9880		129			
POTASSIUM				678	846	767		36			
URANIUM				561	716	638		33			
THORIUM				186	288	237		18			
COSMIC				22	60	41		8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
31:10:86	10		60						THORIUM	16030S	005076
TOTAL COUNT				10591	11393	11094		146			
POTASSIUM				564	717	648		33			
URANIUM				285	357	315		18			
THORIUM				733	949	821		39			
COSMIC				49	114	82		13			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
31:10:86	10		60						CESIUM	16060N	005077
TOTAL COUNT				7733	8357	8017		127			
POTASSIUM				309	409	358		22			
URANIUM				74	138	106		14			
THORIUM				144	240	202		19			
COSMIC				13	54	37		8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	PRE-FLIGHT	LINE	FILE
31:10:86	11		60						CESIUM	15060S	005078
TOTAL COUNT				7627	8471	8194		127			
POTASSIUM				318	425	377		23			
URANIUM				82	144	111		14			
THORIUM				179	254	210		17			
COSMIC				18	57	37		7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	PRE-FLIGHT	LINE	FILE
31:10:86	11		60						URANIUM	15020N	005079
TOTAL COUNT				9762	10527	10055		152			
POTASSIUM				693	868	791		34			
URANIUM				555	751	648		33			
THORIUM				198	303	248		19			
COSMIC				22	58	41		8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	PRE-FLIGHT	LINE	FILE
31:10:86	11		60						THORIUM	15030S	005080
TOTAL COUNT				11005	11767	11305		143			
POTASSIUM				579	741	651		34			
URANIUM				279	379	326		23			
THORIUM				744	927	830		40			
COSMIC				49	109	83		12			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	PRE-FLIGHT	LINE	FILE
31:10:86	11		59						BACKGROUND	15040N	005081 //
TOTAL COUNT				2450	2730	2605		60			

POTASSIUM	324	425	367	20
URANIUM	81	144	107	13
THORIUM	163	249	209	17
COSMIC	16	51	34	7

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
31:10:86	11		137					TEST LINE	15080S	005083
TOTAL COUNT				1509	2235	1845	153			
POTASSIUM				165	303	232	29			
URANIUM				23	80	50	10			
THORIUM				44	127	72	14			
COSMIC				16	53	33	7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
31:10:86	11		74					HIGH LEVEL	15090E	005084
TOTAL COUNT				244	353	296	20			
POTASSIUM				11	42	24	7			
URANIUM				5	29	14	5			
THORIUM				3	31	14	5			
COSMIC				22	63	44	9			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
01:11:86	11		62					HIGH LEVEL	16090W	005085
TOTAL COUNT				284	401	337	22			
POTASSIUM				12	49	29	7			
URANIUM				6	31	15	5			
THORIUM				5	26	14	5			
COSMIC				26	71	45	9			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
01:11:86	11		107					TEST LINE	16080S	005087
TOTAL COUNT				1555	2224	1897	134			
POTASSIUM				143	297	235	27			
URANIUM				28	77	52	10			
THORIUM				47	106	73	13			
COSMIC				17	55	36	7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
01:11:86	11		60					BACKGROUND	16010S	005088
TOTAL COUNT				3322	3684	3514	69			
POTASSIUM				310	437	362	25			
URANIUM				74	131	102	12			
THORIUM				172	238	201	15			
COSMIC				22	57	34	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
01:11:86	11		60					URANIUM	16020N	005089
TOTAL COUNT				9585	10201	9869	121			
POTASSIUM				699	859	763	35			
URANIUM				565	729	634	36			
THORIUM				192	290	236	22			
COSMIC				27	61	42	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
01:11:86	11		60					THORIUM	16030S	005090
TOTAL COUNT				10771	11592	11119	152			
POTASSIUM				605	746	664	34			
URANIUM				280	377	316	21			
THORIUM				701	892	814	40			
COSMIC				55	117	84	12			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
01:11:86	11		60					CESIUM	16060N	005091
TOTAL COUNT				7867	8392	8086	110			
POTASSIUM				314	410	366	22			
URANIUM				82	148	107	14			
THORIUM				162	249	201	17			
COSMIC				21	53	38	9			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
02:11:86	12		60					CESIUM	15060S	005092
TOTAL COUNT				7772	8402	8151	119			
POTASSIUM				311	443	372	26			
URANIUM				74	142	105	14			
THORIUM				156	258	209	20			

COSMIC

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
02:11:86	12		60					URANIUM	15020N	005093
TOTAL COUNT				9677	10289	9960	115			
POTASSIUM				698	873	778	38			
URANIUM				568	699	643	28			
THORIUM				208	297	245	20			
COSMIC				28	66	42	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
02:11:86	12		60					THORIUM	15030S	005094
TOTAL COUNT				10941	11638	11245	141			
POTASSIUM				582	734	655	38			
URANIUM				272	366	326	21			
THORIUM				741	948	825	39			
COSMIC				52	112	86	12			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
02:11:86	12		60					BACKGROUND	15040N	005095
TOTAL COUNT				3389	3778	3571	69			
POTASSIUM				310	445	369	27			
URANIUM				78	144	106	13			
THORIUM				168	260	212	21			
COSMIC				14	60	32	7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
02:11:86	12		109					TEST LINE	15080S	005097
TOTAL COUNT				1591	2285	1946	140			
POTASSIUM				172	330	248	29			
URANIUM				26	77	52	10			
THORIUM				42	109	77	12			
COSMIC				17	52	33	7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
02:11:86	12		65					HIGH LEVEL	15090E	005098
TOTAL COUNT				267	374	321	23			
POTASSIUM				15	42	28	6			
URANIUM				5	28	16	5			
THORIUM				5	23	13	4			
COSMIC				28	66	43	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
02:11:86	12		59					HIGH LEVEL	16090W	005099
TOTAL COUNT				327	440	373	24			
POTASSIUM				15	48	32	7			
URANIUM				6	36	17	5			
THORIUM				6	32	14	5			
COSMIC				28	71	45	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
02:11:86	12		104					TEST LINE	16080S	005101
TOTAL COUNT				1608	2178	1901	130			
POTASSIUM				173	307	241	25			
URANIUM				22	80	53	9			
THORIUM				50	103	75	11			
COSMIC				20	58	38	7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
02:11:86	12		60					BACKGROUND	16010S	005102
TOTAL COUNT				3397	3733	3559	78			
POTASSIUM				315	410	360	21			
URANIUM				79	138	105	12			
THORIUM				176	256	210	17			
COSMIC				13	51	36	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
02:11:86	12		60					URANIUM	16020N	005103
TOTAL COUNT				9608	10165	9880	126			
POTASSIUM				663	867	768	37			
URANIUM				563	713	637	33			
THORIUM				196	281	244	18			
COSMIC				25	75	47	9			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
02:11:86	12		60					THORIUM	16030S	005104

TOTAL COUNT	10885	11369	11146	117
POTASSIUM	556	724	656	31
URANIUM	261	352	316	21
THORIUM	752	913	828	35
COSMIC	64	111	88	12

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
02:11:86	12		60					CESIUM	16060N	005105
TOTAL COUNT				7926	8391	8172	110			
POTASSIUM				308	419	371	25			
URANIUM				80	138	109	13			
THORIUM				151	251	205	20			
COSMIC				18	59	39	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
07:11:86	14		60					CESIUM	15060S	011033
TOTAL COUNT				7880	8566	8167	124			
POTASSIUM				317	411	375	22			
URANIUM				84	141	113	13			
THORIUM				172	261	209	18			
COSMIC				7	39	22	6			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
07:11:86	14		64					URANIUM	15020N	011034
TOTAL COUNT				9688	10309	10056	127			
POTASSIUM				710	855	791	29			
URANIUM				577	727	652	31			
THORIUM				199	308	248	19			
COSMIC				7	38	22	7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
07:11:86	14		60					THORIUM	15030S	011035
TOTAL COUNT				10805	11653	11309	154			
POTASSIUM				588	753	643	31			
URANIUM				294	405	343	26			
THORIUM				737	908	829	36			
COSMIC				40	79	56	10			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
07:11:86	14		60					BACKGROUND	15040N	011036
TOTAL COUNT				3440	3861	3597	80			
POTASSIUM				320	424	375	25			
URANIUM				87	147	112	13			
THORIUM				160	287	209	20			
COSMIC				14	48	29	7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
07:11:86	14		109					TEST LINE	15080S	011038
TOTAL COUNT				1624	2440	1990	148			
POTASSIUM				170	326	249	28			
URANIUM				30	80	54	9			
THORIUM				44	117	77	12			
COSMIC				16	52	32	7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
07:11:86	14		66					HIGH LEVEL	15090E	011039
TOTAL COUNT				310	403	362	22			
POTASSIUM				15	43	30	6			
URANIUM				6	31	19	6			
THORIUM				3	28	14	5			
COSMIC				25	57	42	7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
08:11:86	14		62					HIGH LEVEL	16090W	011040
TOTAL COUNT				305	425	364	24			
POTASSIUM				15	54	31	7			
URANIUM				6	31	18	5			
THORIUM				5	31	15	5			
COSMIC				20	65	47	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
08:11:86	14		118					TEST LINE	16080S	011042
TOTAL COUNT				1650	2392	2001	125			
POTASSIUM				189	332	256	26			
URANIUM				33	77	55	9			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
08:11:86	14		58					BACKGROUND	16010S	011043
TOTAL COUNT				3350	3737	3534	72			
POTASSIUM				307	421	372	24			
URANIUM				82	142	109	14			
THORIUM				169	247	208	18			
COSMIC				19	63	33	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
08:11:86	14		62					URANIUM	16020N	011044
TOTAL COUNT				9508	10143	9861	145			
POTASSIUM				686	872	785	35			
URANIUM				586	726	647	34			
THORIUM				192	303	243	21			
COSMIC				25	65	45	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
08:11:86	14		60					THORIUM	16030S	011045
TOTAL COUNT				10923	11487	11184	144			
POTASSIUM				594	704	648	28			
URANIUM				277	391	335	22			
THORIUM				747	942	840	44			
COSMIC				59	133	87	14			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
08:11:86	14		61					CESIUM	16060N	011046
TOTAL COUNT				7766	8420	8049	127			
POTASSIUM				316	443	370	25			
URANIUM				82	157	111	13			
THORIUM				170	242	206	16			
COSMIC				23	54	38	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
08:11:86	15		60					CESIUM	15060S	011047
TOTAL COUNT				8394	8898	8623	118			
POTASSIUM				390	551	450	29			
URANIUM				165	242	202	17			
THORIUM				243	346	298	22			
COSMIC				608	767	700	31			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
08:11:86	15		60					URANIUM	15020N	011048
TOTAL COUNT				10931	11588	11217	126			
POTASSIUM				825	1003	915	39			
URANIUM				673	841	760	39			
THORIUM				315	450	379	27			
COSMIC				982	1189	1079	45			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
08:11:86	15		60					THORIUM	15030S	011049
TOTAL COUNT				12157	12773	12434	131			
POTASSIUM				781	945	865	36			
URANIUM				411	550	478	29			
THORIUM				793	1008	906	39			
COSMIC				1034	1241	1123	48			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
08:11:86	15		60					BACKGROUND	15040N	011050
TOTAL COUNT				3898	4253	4081	85			
POTASSIUM				352	465	407	22			
URANIUM				127	207	158	15			
THORIUM				185	285	239	18			
COSMIC				291	384	336	20			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
08:11:86	15		108					TEST LINE	15080S	011052
TOTAL COUNT				1550	2368	1949	161			
POTASSIUM				170	331	244	31			
URANIUM				30	88	56	10			
THORIUM				36	109	74	13			
COSMIC				19	53	33	7			

DATE FLIGHT Smp TIME MIN MAX MEAN Std Dev PRE-FLIGHT LINE FILE 15

08:11:86	15	66							HIGH LEVEL	15090E	011053
TOTAL COUNT			292	409	350	23					
POTASSIUM			17	48	30	7					
URANIUM			3	32	18	6					
THORIUM			3	28	14	5					
COSMIC			28	65	42	7					

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
09:11:86	15		60						HIGH LEVEL	16090W	011054
TOTAL COUNT				323	423	368	23				
POTASSIUM				12	43	29	6				
URANIUM				5	35	19	6				
THORIUM				3	23	14	5				
COSMIC				31	66	48	8				

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
09:11:86	15		103						TEST LINE	16080S	011056
TOTAL COUNT				1591	2269	1899	138				
POTASSIUM				164	302	236	29				
URANIUM				28	77	52	10				
THORIUM				41	106	73	12				
COSMIC				16	55	35	7				

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
09:11:86	15		60						BACKGROUND	16010S	011057
TOTAL COUNT				3389	3775	3536	76				
POTASSIUM				308	418	371	21				
URANIUM				79	131	105	12				
THORIUM				169	276	208	19				
COSMIC				14	52	36	7				

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
09:11:86	15		60						URANIUM	16020N	011058
TOTAL COUNT				9528	10129	9865	121				
POTASSIUM				682	814	765	30				
URANIUM				569	716	645	32				
THORIUM				184	276	231	19				
COSMIC				27	73	43	8				

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
09:11:86	15		60						THORIUM	16030S	011059
TOTAL COUNT				10816	11440	11126	127				
POTASSIUM				577	745	661	34				
URANIUM				260	359	319	22				
THORIUM				715	885	818	35				
COSMIC				60	112	83	11				

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	PRE-FLIGHT	LINE	FILE
09:11:86	16		60						CESIUM	15060S	011061
TOTAL COUNT				7682	8317	8082	114				
POTASSIUM				321	424	373	24				
URANIUM				79	141	113	11				
THORIUM				175	256	210	17				
COSMIC				18	54	39	8				

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	PRE-FLIGHT	LINE	FILE
09:11:86	16		59						URANIUM	15020N	011062
TOTAL COUNT				9644	10204	9922	129				
POTASSIUM				708	863	780	30				
URANIUM				554	741	643	35				
THORIUM				199	291	242	20				
COSMIC				25	61	42	7				

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	PRE-FLIGHT	LINE	FILE
09:11:86	16		61						THORIUM	15030S	011063
TOTAL COUNT				10932	11645	11195	159				
POTASSIUM				547	755	654	37				
URANIUM				243	385	325	27				
THORIUM				737	928	834	34				
COSMIC				64	126	86	13				

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	PRE-FLIGHT	LINE	FILE
09:11:86	16		59						BACKGROUND	15040N	011064
TOTAL COUNT				3259	3749	3557	88				
POTASSIUM				296	413	364	27				

URANIUM				100	110	110	10			
THORIUM				168	246	209	16			
COSMIC				21	55	36	7			
DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
09:11:86	16		106					TEST LINE	15080S	011066
TOTAL COUNT				1463	2085	1778	109			
POTASSIUM				135	275	211	24			
URANIUM				30	78	55	10			
THORIUM				42	103	67	11			
COSMIC				17	58	34	7			
DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
09:11:86	16		63					HIGH LEVEL	15090N	011067
TOTAL COUNT				318	418	357	22			
POTASSIUM				14	46	29	6			
URANIUM				6	31	18	6			
THORIUM				5	23	14	4			
COSMIC				26	62	43	8			
DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
10:11:86	16		60					HIGH LEVEL	16090W	011068
TOTAL COUNT				364	498	412	27			
POTASSIUM				17	45	33	6			
URANIUM				6	37	21	6			
THORIUM				6	25	14	5			
COSMIC				32	68	46	8			
DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
10:11:86	16		94					TEST LINE	16080S	011070
TOTAL COUNT				1591	2245	1950	150			
POTASSIUM				165	316	244	30			
URANIUM				36	86	55	10			
THORIUM				31	108	76	13			
COSMIC				16	59	37	8			
DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
10:11:86	16		60					BACKGROUND	16010S	011071
TOTAL COUNT				3311	3736	3483	75			
POTASSIUM				305	415	360	24			
URANIUM				79	163	107	14			
THORIUM				158	245	202	18			
COSMIC				16	55	36	7			
DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
10:11:86	16		60					URANIUM	16020N	011072
TOTAL COUNT				9551	10086	9795	113			
POTASSIUM				697	852	763	34			
URANIUM				545	719	636	35			
THORIUM				195	281	236	20			
COSMIC				30	66	43	8			
DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
10:11:86	16		60					THORIUM	16030S	011073
TOTAL COUNT				10827	11398	11099	134			
POTASSIUM				581	760	661	38			
URANIUM				256	372	318	24			
THORIUM				730	958	826	38			
COSMIC				59	109	85	12			
DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
10:11:86	16		60					CESIUM	16060N	011074
TOTAL COUNT				7717	8217	8017	102			
POTASSIUM				326	436	368	22			
URANIUM				84	136	107	13			
THORIUM				162	256	203	18			
COSMIC				25	57	38	7			
DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
10:11:86	17		60					CESIUM	15060S	013001
TOTAL COUNT				7759	8271	8038	104			
POTASSIUM				313	411	365	21			
URANIUM				77	144	106	14			
THORIUM				157	255	207	20			
COSMIC				7	34	21	6			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	PRE-FLIGHT	LINE	FILE
10:11:86	17		64						URANIUM	15020N	013002
TOTAL COUNT				9671	10234	9947		116			
POTASSIUM				686	870	768		40			
URANIUM				572	719	637		34			
THORIUM				189	289	238		22			
COSMIC				5	27	15		5			
DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	PRE-FLIGHT	LINE	FILE
10:11:86	17		60						THORIUM	15030S	013003
TOTAL COUNT				10957	11800	11354		163			
POTASSIUM				566	737	651		32			
URANIUM				277	381	322		23			
THORIUM				752	928	834		39			
COSMIC				54	109	84		11			
DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	PRE-FLIGHT	LINE	FILE
10:11:86	17		60						BACKGROUND	15040N	013004
TOTAL COUNT				3399	3802	3559		87			
POTASSIUM				321	430	363		21			
URANIUM				65	136	104		15			
THORIUM				172	247	209		18			
COSMIC				19	68	35		8			
DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	PRE-FLIGHT	LINE	FILE
11:11:86	17		113						TEST LINE	15080S	013006
TOTAL COUNT				1487	2165	1817		141			
POTASSIUM				153	305	215		28			
URANIUM				23	72	46		9			
THORIUM				42	103	66		12			
COSMIC				17	53	33		7			
DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	PRE-FLIGHT	LINE	FILE
11:11:86	17		71						HIGH LEVEL	15090N	013007
TOTAL COUNT				248	361	300		20			
POTASSIUM				12	40	26		6			
URANIUM				6	25	14		5			
THORIUM				5	29	13		4			
COSMIC				26	69	42		8			
DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
11:11:86	17		60						HIGH LEVEL	16090W	013008
TOTAL COUNT				293	412	341		22			
POTASSIUM				17	49	30		7			
URANIUM				6	32	17		5			
THORIUM				3	23	14		4			
COSMIC				37	85	47		9			
DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
11:11:86	17		117						TEST LINE	16080S	013010
TOTAL COUNT				1560	2237	1872		121			
POTASSIUM				168	323	234		28			
URANIUM				30	80	52		9			
THORIUM				50	103	75		11			
COSMIC				19	61	37		7			
DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
11:11:86	17		60						BACKGROUND	16010S	013011
TOTAL COUNT				3353	3639	3487		68			
POTASSIUM				309	418	361		21			
URANIUM				76	131	106		11			
THORIUM				153	250	201		17			
COSMIC				0	46	25		13			
DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
11:11:86	17		60						URANIUM	16020N	013012
TOTAL COUNT				9489	10085	9776		127			
POTASSIUM				694	855	764		33			
URANIUM				556	713	634		29			
THORIUM				189	294	235		19			
COSMIC				20	66	41		9			
DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std	Dev	POST-FLIGHT	LINE	FILE
11:11:86	17		60						THORIUM	16030S	013013
TOTAL COUNT				10752	11402	11082		129			

URANIUM	261	358	314	21
THORIUM	750	904	820	39
COSMIC	55	117	83	13

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
11:11:86	17		60					CESIUM	16060N	013014
TOTAL COUNT				7687	8302	8008	125			
POTASSIUM				314	428	367	24			
URANIUM				72	147	107	15			
THORIUM				164	255	203	19			
COSMIC				20	51	35	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
11:11:86	18		60					CESIUM	15060S	013015
TOTAL COUNT				7652	8354	8011	138			
POTASSIUM				312	416	367	22			
URANIUM				78	138	106	13			
THORIUM				172	251	208	19			
COSMIC				15	52	29	7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
11:11:86	18		60					URANIUM	15020N	013016
TOTAL COUNT				9602	10197	9929	128			
POTASSIUM				706	866	775	34			
URANIUM				551	710	648	35			
THORIUM				184	292	242	22			
COSMIC				8	38	24	7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
11:11:86	18		60					THORIUM	15030S	013017
TOTAL COUNT				10816	11706	11205	165			
POTASSIUM				594	736	650	30			
URANIUM				268	389	324	27			
THORIUM				757	927	833	37			
COSMIC				3	25	13	5			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
11:11:86	18		62					BACKGROUND	15040N	013018
TOTAL COUNT				3429	3751	3561	75			
POTASSIUM				323	419	373	22			
URANIUM				79	130	106	12			
THORIUM				160	249	205	18			
COSMIC				3	25	11	5			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
11:11:86	18		134					TEST LINE	15080S	013020
TOTAL COUNT				1468	2073	1830	132			
POTASSIUM				171	291	232	25			
URANIUM				28	70	47	8			
THORIUM				47	128	72	12			
COSMIC				16	50	33	7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
11:11:86	18		74					HIGH LEVEL	15090E	013021
TOTAL COUNT				242	346	295	20			
POTASSIUM				12	42	25	6			
URANIUM				5	32	14	5			
THORIUM				5	23	13	4			
COSMIC				25	66	44	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
12:11:86	18		60					HIGH LEVEL	16090W	013022
TOTAL COUNT				298	414	360	22			
POTASSIUM				12	45	29	7			
URANIUM				5	28	18	6			
THORIUM				6	29	15	5			
COSMIC				34	66	49	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
12:11:86	18		106					TEST LINE	16080S	013024
TOTAL COUNT				1588	2234	1923	147			
POTASSIUM				168	312	240	29			
URANIUM				27	85	51	10			
THORIUM				45	113	75	13			
COSMIC				25	50	32	7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
12:11:86	18		61					BACKGROUND	16010S	013025
TOTAL COUNT				3454	3901	3607	79			
POTASSIUM				318	440	367	25			
URANIUM				78	131	105	11			
THORIUM				158	255	207	18			
COSMIC				22	52	37	7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
12:11:86	18		59					URANIUM	16020N	013026
TOTAL COUNT				9690	10340	10038	129			
POTASSIUM				667	871	775	35			
URANIUM				575	714	644	32			
THORIUM				189	284	240	20			
COSMIC				28	67	45	9			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
12:11:86	18		59					THORIUM	16030S	013027
TOTAL COUNT				10895	11702	11305	144			
POTASSIUM				562	729	649	34			
URANIUM				275	408	326	26			
THORIUM				747	887	816	32			
COSMIC				57	113	86	12			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
12:11:86	18		60					CESIUM	16060N	013028
TOTAL COUNT				7830	8375	8126	104			
POTASSIUM				315	419	370	23			
URANIUM				72	143	110	13			
THORIUM				164	254	203	16			
COSMIC				25	57	41	7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
12:11:86	19		60					CESIUM	15060S	013029
TOTAL COUNT				7661	8253	8021	111			
POTASSIUM				311	418	375	21			
URANIUM				84	144	110	12			
THORIUM				162	239	206	17			
COSMIC				16	57	40	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
12:11:86	19		60					URANIUM	15020N	013030
TOTAL COUNT				9633	10257	9910	125			
POTASSIUM				707	868	782	39			
URANIUM				571	715	643	32			
THORIUM				204	288	247	19			
COSMIC				22	65	43	10			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
12:11:86	19		60					THORIUM	15030S	013031
TOTAL COUNT				10793	11457	11157	140			
POTASSIUM				560	710	656	30			
URANIUM				270	376	320	24			
THORIUM				750	907	834	34			
COSMIC				62	111	85	11			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
12:11:86	19		60					BACKGROUND	15040N	013032
TOTAL COUNT				3389	3734	3558	69			
POTASSIUM				329	428	373	25			
URANIUM				74	139	106	14			
THORIUM				160	251	205	17			
COSMIC				21	54	36	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
13:11:86	19		102					TEST LINE	15080S	013034
TOTAL COUNT				1493	2167	1838	133			
POTASSIUM				139	272	222	27			
URANIUM				28	75	51	9			
THORIUM				41	116	71	13			
COSMIC				14	58	34	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
13:11:86	19		20					HIGH LEVEL	15090E	013035

POTASSIUM	17	43	26	6
URANIUM	9	23	17	4
THORIUM	6	22	12	4
COSMIC	23	59	41	9

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
13:11:86	19		60					HIGH LEVEL	16090N	016001
TOTAL COUNT				313	462	400	27			
POTASSIUM				14	52	33	8			
URANIUM				8	34	21	6			
THORIUM				3	26	13	5			
COSMIC				29	66	48	9			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
13:11:86	19		100					TEST LINE	16080S	016003
TOTAL COUNT				1667	2264	1965	123			
POTASSIUM				176	305	246	27			
URANIUM				34	80	56	9			
THORIUM				45	105	77	12			
COSMIC				17	66	38	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
13:11:86	19		60					BACKGROUND	16010S	016004
TOTAL COUNT				3357	3742	3522	78			
POTASSIUM				291	421	365	22			
URANIUM				79	130	105	12			
THORIUM				160	242	205	18			
COSMIC				24	63	37	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
13:11:86	19		60					URANIUM	16020N	016005
TOTAL COUNT				9464	10042	9763	146			
POTASSIUM				694	851	767	39			
URANIUM				579	735	636	29			
THORIUM				198	284	237	20			
COSMIC				28	68	46	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
13:11:86	19		60					THORIUM	16030S	016006
TOTAL COUNT				10792	11486	11103	138			
POTASSIUM				594	743	665	33			
URANIUM				267	366	317	23			
THORIUM				752	927	822	39			
COSMIC				50	117	85	12			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
13:11:86	19		60					CESIUM	16060N	016007
TOTAL COUNT				7738	8228	8001	107			
POTASSIUM				314	435	375	25			
URANIUM				80	142	109	13			
THORIUM				173	234	205	15			
COSMIC				21	56	39	7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
14:11:86	20		60					CESIUM	15060S	016008
TOTAL COUNT				7761	8306	8026	115			
POTASSIUM				316	441	377	22			
URANIUM				84	141	111	13			
THORIUM				164	257	207	20			
COSMIC				23	61	42	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
14:11:86	20		60					URANIUM	15020N	016009
TOTAL COUNT				9635	10224	9879	121			
POTASSIUM				712	865	787	38			
URANIUM				541	707	642	31			
THORIUM				199	296	244	20			
COSMIC				17	66	45	9			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
14:11:86	20		60					THORIUM	15030S	016010
TOTAL COUNT				10875	11417	11141	135			
POTASSIUM				602	743	661	31			
URANIUM				271	381	329	25			
THORIUM				712	817	764	37			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
14:11:86	20		60					BACKGROUND	15040N	016011
TOTAL COUNT				3397	3737	3553	72			
POTASSIUM				325	436	374	24			
URANIUM				82	139	109	11			
THORIUM				158	253	209	20			
COSMIC				19	55	37	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
14:11:86	20		104					TEST LINE	15080S	016013
TOTAL COUNT				1629	2149	1897	134			
POTASSIUM				170	305	237	28			
URANIUM				27	75	52	10			
THORIUM				47	116	76	13			
COSMIC				16	63	36	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	PRE-FLIGHT	LINE	FILE
14:11:86	20		70					HIGH LEVEL	15090N	016014
TOTAL COUNT				298	426	359	25			
POTASSIUM				15	56	32	7			
URANIUM				6	31	16	5			
THORIUM				3	26	14	5			
COSMIC				23	65	45	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
14:11:86	20		60					HIGH LEVEL	16090W	016015
TOTAL COUNT				313	449	392	25			
POTASSIUM				12	52	31	8			
URANIUM				5	32	19	6			
THORIUM				6	25	15	4			
COSMIC				28	77	47	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
14:11:86	20		102					TEST LINE	16080S	016017
TOTAL COUNT				1415	1954	1681	110			
POTASSIUM				126	278	199	26			
URANIUM				27	73	45	8			
THORIUM				44	94	64	9			
COSMIC				23	59	38	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
14:11:86	20		60					BACKGROUND	16010S	016018
TOTAL COUNT				2887	3214	3055	76			
POTASSIUM				260	386	313	22			
URANIUM				61	118	89	13			
THORIUM				139	210	174	15			
COSMIC				16	50	31	7			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
14:11:86	20		60					URANIUM	16020N	016019
TOTAL COUNT				8289	8812	8586	108			
POTASSIUM				598	756	667	34			
URANIUM				474	609	549	32			
THORIUM				156	230	199	16			
COSMIC				21	64	37	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
14:11:86	20		60					THORIUM	16030S	016020
TOTAL COUNT				9397	10163	9817	141			
POTASSIUM				508	648	583	31			
URANIUM				231	335	277	22			
THORIUM				653	823	726	37			
COSMIC				45	91	69	8			

DATE	FLIGHT	Smp	TIME	MIN	MAX	MEAN	Std Dev	POST-FLIGHT	LINE	FILE
14:11:86	20		60					CESIUM	16060N	016021
TOTAL COUNT				6864	7385	7143	114			
POTASSIUM				270	376	319	24			
URANIUM				68	124	94	11			
THORIUM				146	218	176	16			
COSMIC				18	54	34	8			

KULGERA WEST SURVEY FLIGHT		CALIBRATION SUMMARY			
		alpha	beta	gamma	delta
2	PRE-FLIGHT	.348	.483	.779	.060
2	POST-FLIGHT	.341	.487	.748	.046
3	PRE-FLIGHT	.364	.467	.773	.059
3	POST-FLIGHT	CHECK MISSING BACKGROUND URANIUM THORIUM			
4	PRE-FLIGHT	.358	.447	.794	.070
4	POST-FLIGHT	.366	.465	.751	.058
5	PRE-FLIGHT	.355	.458	.782	.071
5	POST-FLIGHT	.352	.480	.793	.053
6	PRE-FLIGHT	.359	.449	.771	.084
6	POST-FLIGHT	.353	.475	.775	.062
7	PRE-FLIGHT	.351	.467	.769	.065
7	POST-FLIGHT	.351	.470	.773	.064
8	PRE-FLIGHT	.341	.454	.762	.065
8	POST-FLIGHT	.344	.479	.754	.054
9	PRE-FLIGHT	.359	.459	.761	.063
9	POST-FLIGHT	.350	.476	.772	.060
10	PRE-FLIGHT	.360	.472	.756	.061
10	POST-FLIGHT	.346	.457	.746	.058
11	PRE-FLIGHT	.353	.457	.784	.072
11	POST-FLIGHT	.349	.493	.754	.066
12	PRE-FLIGHT	.359	.467	.762	.061
12	POST-FLIGHT	.341	.479	.767	.064
14	PRE-FLIGHT	.373	.432	.770	.072
14	POST-FLIGHT	.359	.437	.766	.065
15	PRE-FLIGHT	.480	.687	.844	.233
15	POST-FLIGHT	.351	.475	.730	.043
16	PRE-FLIGHT	.344	.464	.780	.062
16	POST-FLIGHT	.338	.482	.762	.064
17	PRE-FLIGHT	.349	.461	.760	.054
17	POST-FLIGHT	.336	.475	.763	.064
18	PRE-FLIGHT	.347	.441	.742	.068
18	POST-FLIGHT	.363	.463	.757	.061
19	PRE-FLIGHT	.340	.450	.762	.078
19	POST-FLIGHT	.344	.486	.757	.060
20	PRE-FLIGHT	.352	.459	.775	.066
20	POST-FLIGHT	.341	.489	.770	.054
AVERAGE VALUES		.355	.473	.767	.067
PRE FLIGHT AVES		.361	.471	.774	.076
POST FLIGHT AVES		.348	.475	.761	.059

COMPARISON BETWEEN URANIUM SAMPLE CHECKS
USING POST FLIGHT CHECKS OF FLIGHT 2 AS THE STANDARD

FLIGHT	CHECK	TOTAL COUNT		POTASSIUM		URANIUM		THORIUM		COSMIC	
		Bgcor	Diff	Bgcor	Diff	Bgcor	Diff	Bgcor	Diff	Bgcor	Diff
2	PRE-FLIGHT	6351	-0	415	3	533	-1	32	28	7	17
2	POST-FLIGHT	6358	0	403	0	539	0	25	0	6	0
3	PRE-FLIGHT	6318	-1	418	4	541	0	32	28	12	100
3	POST-FLIGHT	MISSING									
4	PRE-FLIGHT	6375	0	420	4	529	-2	37	48	9	50
4	POST-FLIGHT	6327	-0	405	0	539	0	31	24	6	0
5	PRE-FLIGHT	6401	1	420	4	537	-0	38	52	9	50
5	POST-FLIGHT	6384	0	421	4	531	-1	28	12	8	33
6	PRE-FLIGHT	6424	1	415	3	538	-0	45	80	10	67
6	POST-FLIGHT	6371	0	414	3	534	-1	33	32	7	17
7	PRE-FLIGHT	6346	-0	412	2	536	-1	35	40	9	50
7	POST-FLIGHT	6334	-0	411	2	532	-1	34	36	9	50
8	PRE-FLIGHT	6379	0	412	2	541	0	35	40	8	33
8	POST-FLIGHT	6329	-0	404	0	536	-1	29	16	9	50
9	PRE-FLIGHT	6358	0	411	2	540	0	34	36	8	33
9	POST-FLIGHT	6399	1	412	2	534	-1	32	28	8	33
10	PRE-FLIGHT	6368	0	409	1	541	0	33	32	7	17
10	POST-FLIGHT	6390	1	400	-1	536	-1	31	24	5	-17
11	PRE-FLIGHT	6450	1	424	5	541	0	39	56	7	17
11	POST-FLIGHT	6355	-0	401	-0	532	-1	35	40	8	33
12	PRE-FLIGHT	6389	0	409	1	537	-0	33	32	10	67
12	POST-FLIGHT	6321	-1	408	1	532	-1	34	36	11	83
14	PRE-FLIGHT	6459	2	416	3	540	0	39	56	-7	-217
14	POST-FLIGHT	6327	-0	413	2	539	0	35	40	12	100
15	PRE-FLIGHT	7136	12	508	26	602	12	140	460	743	12283
15	POST-FLIGHT	6329	-0	394	-2	540	0	23	-8	7	17
16	PRE-FLIGHT	6365	0	416	3	533	-1	33	32	6	0
16	POST-FLIGHT	6312	-1	403	0	529	-2	34	36	7	17
17	PRE-FLIGHT	6388	0	405	0	533	-1	29	16	-20	-433
17	POST-FLIGHT	6289	-1	403	0	528	-2	34	36	16	167
18	PRE-FLIGHT	6368	0	402	-0	542	1	37	48	13	117
18	POST-FLIGHT	6431	1	408	1	539	0	33	32	8	33
19	PRE-FLIGHT	6352	-0	409	1	537	-0	42	68	7	17
19	POST-FLIGHT	6241	-2	402	-0	531	-1	32	28	9	50
20	PRE-FLIGHT	6326	-1	413	2	533	-1	35	40	8	33
20	POST-FLIGHT	5531	-13	354	-12	460	-15	25	0	6	0

COMPARISON BETWEEN THORIUM SAMPLE CHECKS
USING POST FLIGHT CHECKS OF FLIGHT 2 AS THE STANDARD

FLIGHT	CHECK	TOTAL COUNT		POTASSIUM		URANIUM		THORIUM		COSMIC	
		Bgcor	Diff	Bgcor	Diff	Bgcor	Diff	Bgcor	Diff	Bgcor	Diff
2	PRE-FLIGHT	7615	1	294	0	212	3	609	1	47	9
2	POST-FLIGHT	7577	0	293	0	205	0	602	0	43	0
3	PRE-FLIGHT	7636	1	287	-2	224	9	615	2	54	26
3	POST-FLIGHT	MISSING									
4	PRE-FLIGHT	7643	1	280	-4	224	9	626	4	46	7
4	POST-FLIGHT	7557	-0	281	-4	221	8	604	0	48	12
5	PRE-FLIGHT	7676	1	284	-3	220	7	620	3	50	16
5	POST-FLIGHT	7684	1	295	1	216	5	614	2	51	19
6	PRE-FLIGHT	7704	2	279	-5	223	9	622	3	51	19
6	POST-FLIGHT	7618	1	293	0	218	6	617	2	47	9
7	PRE-FLIGHT	7713	2	293	0	220	7	627	4	50	16
7	POST-FLIGHT	7623	1	292	-0	218	6	621	3	51	19
8	PRE-FLIGHT	7600	0	281	-4	211	3	619	3	48	12
8	POST-FLIGHT	7599	0	297	1	213	4	620	3	48	12
9	PRE-FLIGHT	7610	0	282	-4	221	8	615	2	50	16
9	POST-FLIGHT	7664	1	294	0	216	5	618	3	49	14
10	PRE-FLIGHT	7647	1	291	-1	222	8	617	2	47	9
10	POST-FLIGHT	7604	0	281	-4	213	4	615	2	46	7
11	PRE-FLIGHT	7700	2	284	-3	219	7	621	3	49	14
11	POST-FLIGHT	7605	0	302	3	214	4	613	2	50	16
12	PRE-FLIGHT	7674	1	286	-2	220	7	613	2	54	26
12	POST-FLIGHT	7587	0	296	1	211	3	618	3	52	21
14	PRE-FLIGHT	7712	2	268	-9	231	13	620	3	27	-37
14	POST-FLIGHT	7650	1	276	-6	227	11	632	5	54	26
15	PRE-FLIGHT	8353	10	458	56	320	56	667	11	787	1730
15	POST-FLIGHT	7590	0	290	-1	214	4	610	1	47	9
16	PRE-FLIGHT	7638	1	290	-1	215	5	625	4	50	16
16	POST-FLIGHT	7616	1	301	3	211	3	624	4	49	14

17	POST-FLIGHT	7595	0	294	0	208	1	619	3	58	35
18	PRE-FLIGHT	7644	1	277	-5	218	6	628	4	52	-95
18	POST-FLIGHT	7698	2	282	-4	221	8	609	1	49	14
19	PRE-FLIGHT	7599	0	283	-3	214	4	629	4	49	14
19	POST-FLIGHT	7581	0	300	2	212	3	617	2	48	12
20	PRE-FLIGHT	7588	0	287	-2	220	7	625	4	49	14
20	POST-FLIGHT	6762	-11	270	-8	188	-8	552	-8	38	-12

COMPARISON BETWEEN BACKGROUND SAMPLE CHECKS

USING POST FLIGHT CHECKS OF FLIGHT 2 AS THE STANDARD

FLIGHT	CHECK	TOTAL COUNT		POTASSIUM		URANIUM		THORIUM		COSMIC	
		Bgcor	Diff	Bgcor	Diff	Bgcor	Diff	Bgcor	Diff	Bgcor	Diff
2	PRE-FLIGHT	3587	1	366	1	109	3	209	0	38	0
2	POST-FLIGHT	3544	0	364	0	106	0	209	0	38	0
3	PRE-FLIGHT	3557	0	369	1	109	3	210	0	34	-11
3	POST-FLIGHT	MISSING									
4	PRE-FLIGHT	3541	-0	368	1	106	0	207	-1	35	-8
4	POST-FLIGHT	3561	0	371	2	107	1	209	0	39	3
5	PRE-FLIGHT	3541	-0	365	0	108	2	207	-1	34	-11
5	POST-FLIGHT	3581	1	363	-0	106	0	211	1	34	-11
6	PRE-FLIGHT	3607	2	372	2	110	4	210	0	35	-8
6	POST-FLIGHT	3557	0	365	0	106	0	208	-0	37	-3
7	PRE-FLIGHT	3578	1	365	0	108	2	207	-1	35	-8
7	POST-FLIGHT	3568	1	368	1	108	2	205	-2	35	-8
8	PRE-FLIGHT	3534	-0	365	0	105	-1	207	-1	35	-8
8	POST-FLIGHT	3521	-1	366	1	105	-1	205	-2	36	-5
9	PRE-FLIGHT	3538	-0	368	1	106	0	210	0	36	-5
9	POST-FLIGHT	3630	2	371	2	113	7	205	-2	36	-5
10	PRE-FLIGHT	3547	0	363	-0	103	-3	211	1	36	-5
10	POST-FLIGHT	3490	-2	367	1	102	-4	206	-1	36	-5
11	PRE-FLIGHT	3605	2	367	1	107	1	209	0	34	-11
11	POST-FLIGHT	3514	-1	362	-1	102	-4	201	-4	34	-11
12	PRE-FLIGHT	3571	1	369	1	106	0	212	1	32	-16
12	POST-FLIGHT	3559	0	360	-1	105	-1	210	0	36	-5
14	PRE-FLIGHT	3597	1	375	3	112	6	209	0	29	-24
14	POST-FLIGHT	3534	-0	372	2	108	2	208	-0	33	-13
15	PRE-FLIGHT	4081	15	407	12	158	49	239	14	336	784
15	POST-FLIGHT	3536	-0	371	2	105	-1	208	-0	36	-5
16	PRE-FLIGHT	3557	0	364	0	110	4	209	0	36	-5
16	POST-FLIGHT	3483	-2	360	-1	107	1	202	-3	36	-5
17	PRE-FLIGHT	3559	0	363	-0	104	-2	209	0	35	-8
17	POST-FLIGHT	3487	-2	361	-1	106	0	201	-4	25	-34
18	PRE-FLIGHT	3561	0	373	2	106	0	205	-2	11	-71
18	POST-FLIGHT	3607	2	367	1	105	-1	207	-1	37	-3
19	PRE-FLIGHT	3558	0	373	2	106	0	205	-2	36	-5
19	POST-FLIGHT	3522	-1	365	0	105	-1	205	-2	37	-3
20	PRE-FLIGHT	3553	0	374	3	109	3	209	0	37	-3
20	POST-FLIGHT	3055	-14	313	-14	89	-16	174	-17	31	-18

COMPARISON BETWEEN POTASSIUM SAMPLE CHECKS

USING POST FLIGHT CHECKS OF FLIGHT 2 AS THE STANDARD

FLIGHT	CHECK	TOTAL COUNT		POTASSIUM		URANIUM		THORIUM		COSMIC	
		Bgcor	Diff	Bgcor	Diff	Bgcor	Diff	Bgcor	Diff	Bgcor	Diff
2	PRE-FLIGHT	MISSING									
2	POST-FLIGHT	MISSING									
3	PRE-FLIGHT	MISSING									
3	POST-FLIGHT	MISSING									
4	PRE-FLIGHT	MISSING									
4	POST-FLIGHT	MISSING									
5	PRE-FLIGHT	MISSING									
5	POST-FLIGHT	MISSING									
6	PRE-FLIGHT	MISSING									
6	POST-FLIGHT	MISSING									
7	PRE-FLIGHT	MISSING									
7	POST-FLIGHT	MISSING									
8	PRE-FLIGHT	MISSING									
8	POST-FLIGHT	MISSING									
9	PRE-FLIGHT	MISSING									
9	POST-FLIGHT	MISSING									
10	PRE-FLIGHT	MISSING									
10	POST-FLIGHT	MISSING									
11	PRE-FLIGHT	MISSING									
11	POST-FLIGHT	MISSING									

12 PRE-FLIGHT MISSING
 12 POST-FLIGHT MISSING
 14 PRE-FLIGHT MISSING
 14 POST-FLIGHT MISSING
 15 PRE-FLIGHT MISSING
 15 POST-FLIGHT MISSING
 16 PRE-FLIGHT MISSING
 16 POST-FLIGHT MISSING
 17 PRE-FLIGHT MISSING
 17 POST-FLIGHT MISSING
 18 PRE-FLIGHT MISSING
 18 POST-FLIGHT MISSING
 19 PRE-FLIGHT MISSING
 19 POST-FLIGHT MISSING
 20 PRE-FLIGHT MISSING
 20 POST-FLIGHT MISSING

COMPARISON BETWEEN CESIUM SAMPLE CHECKS
 USING POST FLIGHT CHECKS OF FLIGHT 2 AS THE STANDARD

FLIGHT	CHECK	TOTAL COUNT		POTASSIUM		URANIUM		THORIUM		COSMIC	
		Bgcor	Diff	Bgcor	Diff	Bgcor	Diff	Bgcor	Diff	Bgcor	Diff
2	PRE-FLIGHT	4518	1	6	200	-1	-50	3	-160	1	0
2	POST-FLIGHT	4478	0	2	0	-2	0	-5	0	1	0
3	PRE-FLIGHT	4428	-1	2	0	1	-150	1	-120	5	400
3	POST-FLIGHT	MISSING									
4	PRE-FLIGHT	4561	2	2	0	5	-350	-1	-80	3	200
4	POST-FLIGHT	4448	-1	-2	-200	4	-300	-7	40	4	300
5	PRE-FLIGHT	4512	1	3	50	4	-300	-2	-60	1	0
5	POST-FLIGHT	4475	-0	4	100	2	-200	-4	-20	2	100
6	PRE-FLIGHT	4518	1	-6	-400	2	-200	-2	-60	2	100
6	POST-FLIGHT	MISSING									
7	PRE-FLIGHT	4524	1	7	250	3	-250	-1	-80	3	200
7	POST-FLIGHT	4537	1	5	150	2	-200	0	-100	3	200
8	PRE-FLIGHT	4552	2	4	100	4	-300	1	-120	2	100
8	POST-FLIGHT	4530	1	6	200	5	-350	0	-100	3	200
9	PRE-FLIGHT	4501	1	3	50	2	-200	-2	-60	0	-100
9	POST-FLIGHT	4507	1	5	150	10	-600	5	-200	3	200
10	PRE-FLIGHT	4379	-2	5	150	5	-350	-5	0	0	-100
10	POST-FLIGHT	4527	1	-9	-550	4	-300	-4	-20	1	0
11	PRE-FLIGHT	4589	2	10	400	4	-300	1	-120	3	200
11	POST-FLIGHT	4572	2	4	100	5	-350	0	-100	4	300
12	PRE-FLIGHT	4580	2	3	50	-1	-50	-3	-40	4	300
12	POST-FLIGHT	4613	3	11	450	4	-300	-5	0	3	200
14	PRE-FLIGHT	4570	2	0	-100	1	-150	0	-100	-7	-800
14	POST-FLIGHT	4515	1	-2	-200	3	-250	-2	-60	5	400
15	PRE-FLIGHT	4542	1	43	2050	44	-2300	59	-1280	364	36300
15	POST-FLIGHT	MISSING									
16	PRE-FLIGHT	4525	1	9	350	3	-250	1	-120	3	200
16	POST-FLIGHT	4534	1	8	300	0	-100	1	-120	2	100
17	PRE-FLIGHT	4479	0	2	0	2	-200	-2	-60	-14	-1500
17	POST-FLIGHT	4521	1	6	200	1	-150	2	-140	10	900
18	PRE-FLIGHT	4450	-1	-6	-400	0	-100	3	-160	18	1700
18	POST-FLIGHT	4519	1	3	50	5	-350	-4	-20	4	300
19	PRE-FLIGHT	4463	-0	2	0	4	-300	1	-120	4	300
19	POST-FLIGHT	4479	0	10	400	4	-300	0	-100	2	100
20	PRE-FLIGHT	4473	-0	3	50	2	-200	-2	-60	5	400
20	POST-FLIGHT	4088	-9	6	200	5	-350	2	-140	3	200

COMPARISON BETWEEN TEST LINE SAMPLE CHECKS
 USING POST FLIGHT CHECKS OF FLIGHT 2 AS THE STANDARD

FLIGHT	CHECK	TOTAL COUNT		POTASSIUM		URANIUM		THORIUM		COSMIC	
		Bgcor	Diff	Bgcor	Diff	Bgcor	Diff	Bgcor	Diff	Bgcor	Diff
2	PRE-FLIGHT	MISSING									
2	POST-FLIGHT	1942	0	245	0	51	0	77	0	38	0
3	PRE-FLIGHT	1987	2	249	2	52	2	77	0	35	-8
3	POST-FLIGHT	1941	-0	243	-1	53	4	75	-3	38	0
4	PRE-FLIGHT	1927	-1	249	2	52	2	77	0	34	-11
4	POST-FLIGHT	2056	6	263	7	57	12	82	6	37	-3
5	PRE-FLIGHT	1808	-7	228	-7	49	-4	71	-8	33	-13
5	POST-FLIGHT	2063	6	263	7	56	10	82	6	35	-8
6	PRE-FLIGHT	1994	3	252	3	55	8	77	0	33	-13
6	POST-FLIGHT	2035	5	256	4	56	10	80	4	37	-3
7	PRE-FLIGHT	2010	4	260	6	57	12	78	1	34	-11

8	PRE-FLIGHT	1923	-1	247	1	52	2	75	-3	33	-13
8	POST-FLIGHT	1959	1	251	2	55	8	77	0	38	0
9	PRE-FLIGHT	1903	-2	242	-1	53	4	76	-1	36	-5
9	POST-FLIGHT	1918	-1	244	-0	54	6	73	-5	38	0
10	PRE-FLIGHT	1852	-5	234	-4	49	-4	75	-3	33	-13
10	POST-FLIGHT	1861	-4	234	-4	51	0	74	-4	37	-3
11	PRE-FLIGHT	1845	-5	232	-5	50	-2	72	-6	33	-13
11	POST-FLIGHT	1897	-2	235	-4	52	2	73	-5	36	-5
12	PRE-FLIGHT	1946	0	248	1	52	2	77	0	33	-13
12	POST-FLIGHT	1901	-2	241	-2	53	4	75	-3	38	0
14	PRE-FLIGHT	1990	2	249	2	54	6	77	0	32	-16
14	POST-FLIGHT	2001	3	256	4	55	8	79	3	35	-8
15	PRE-FLIGHT	1949	0	244	-0	56	10	74	-4	33	-13
15	POST-FLIGHT	1899	-2	236	-4	52	2	73	-5	35	-8
16	PRE-FLIGHT	1778	-8	211	-14	55	8	67	-13	34	-11
16	POST-FLIGHT	1950	0	244	-0	55	8	76	-1	37	-3
17	PRE-FLIGHT	1817	-6	215	-12	46	-10	66	-14	33	-13
17	POST-FLIGHT	1872	-4	234	-4	52	2	75	-3	37	-3
18	PRE-FLIGHT	1830	-6	232	-5	47	-8	72	-6	33	-13
18	POST-FLIGHT	1923	-1	240	-2	51	0	75	-3	36	-5
19	PRE-FLIGHT	1838	-5	222	-9	51	0	71	-8	34	-11
19	POST-FLIGHT	1965	1	246	0	56	10	77	0	38	0
20	PRE-FLIGHT	1897	-2	237	-3	52	2	76	-1	36	-5
20	POST-FLIGHT	1681	-13	199	-19	45	-12	64	-17	38	0

COMPARISON BETWEEN HIGH LEVEL SAMPLE CHECKS

USING POST FLIGHT CHECKS OF FLIGHT 2 AS THE STANDARD

FLIGHT	CHECK	TOTAL COUNT		POTASSIUM		URANIUM		THORIUM		COSMIC	
		Bgcor	Diff	Bgcor	Diff	Bgcor	Diff	Bgcor	Diff	Bgcor	Diff
2	PRE-FLIGHT	MISSING									
2	POST-FLIGHT	306	0	28	0	15	0	15	0	47	0
3	PRE-FLIGHT	363	19	30	7	18	20	13	-13	42	-11
3	POST-FLIGHT	331	8	27	-4	16	7	15	0	49	4
4	PRE-FLIGHT	MISSING									
4	POST-FLIGHT	348	14	29	4	18	20	14	-7	47	0
5	PRE-FLIGHT	313	2	27	-4	16	7	13	-13	42	-11
5	POST-FLIGHT	365	19	30	7	19	27	14	-7	46	-2
6	PRE-FLIGHT	344	12	30	7	17	13	12	-20	41	-13
6	POST-FLIGHT	347	13	29	4	18	20	13	-13	47	0
7	PRE-FLIGHT	367	20	32	14	18	20	14	-7	45	-4
7	POST-FLIGHT	401	31	33	18	22	47	14	-7	44	-6
8	PRE-FLIGHT	411	34	35	25	20	33	17	13	43	-9
8	POST-FLIGHT	377	23	33	18	18	20	16	7	46	-2
9	PRE-FLIGHT	330	8	30	7	17	13	12	-20	44	-6
9	POST-FLIGHT	359	17	30	7	18	20	14	-7	49	4
10	PRE-FLIGHT	297	-3	27	-4	13	-13	14	-7	45	-4
10	POST-FLIGHT	307	0	27	-4	14	-7	14	-7	47	0
11	PRE-FLIGHT	296	-3	24	-14	14	-7	14	-7	44	-6
11	POST-FLIGHT	337	10	29	4	15	0	14	-7	45	-4
12	PRE-FLIGHT	321	5	28	0	16	7	13	-13	43	-9
12	POST-FLIGHT	373	22	32	14	17	13	14	-7	45	-4
14	PRE-FLIGHT	362	18	30	7	19	27	14	-7	42	-11
14	POST-FLIGHT	364	19	31	11	18	20	15	0	47	0
15	PRE-FLIGHT	350	14	30	7	18	20	14	-7	42	-11
15	POST-FLIGHT	368	20	29	4	19	27	14	-7	48	2
16	PRE-FLIGHT	357	17	29	4	18	20	14	-7	43	-9
16	POST-FLIGHT	412	35	33	18	21	40	14	-7	46	-2
17	PRE-FLIGHT	300	-2	26	-7	14	-7	13	-13	42	-11
17	POST-FLIGHT	341	11	30	7	17	13	14	-7	47	0
18	PRE-FLIGHT	295	-4	25	-11	14	-7	13	-13	44	-6
18	POST-FLIGHT	360	18	29	4	18	20	15	0	49	4
19	PRE-FLIGHT	338	10	26	-7	17	13	12	-20	41	-13
19	POST-FLIGHT	400	31	33	18	21	40	13	-13	48	2
20	PRE-FLIGHT	359	17	32	14	16	7	14	-7	45	-4
20	POST-FLIGHT	392	28	31	11	19	27	15	0	47	0

SUMMARY OF FLIGHT LINES

1. Britten Jones Map Sheet.

Start flight line	- 10030
End flight line	- 11080
Start tie line	- 17010
End tie line	- 17120
Start flight	- 11
End flight	- 20

2. Mulga Park Map Sheets

Start flight line	- 11020
End flight line	- 12090
Start tie line	- 27010
End tie line	- 27120
Start flight	- 2
End flight	- 20

3. Sentinel Bore Map Sheets

Start flight line	- 12020
End flight line	- 13070
Start tie line	- 37010
End flight line	- 37120
Start flight	- 2
End flight	- 8