TABLE 1
ANALYTICAL RESULTS OF
ISS CONTAINER AIR SAMPLES RETURNED ON SOYUZ NOVEMBER 2001

CHEMICAL CONTAMINANT	CONCENTRATION (mg/m3)	
	AA03223 S/N 1070 FGB 9/13/01@18:08GMT	AA03224 S/N 1018 LAB 9/13/01@18:15 GMT
TARGET COMPOUNDS (TO-14/POLAR)* **		
FREON 12	TRACE	TRACE
CHLOROMETHANE	<0.05	<0.05
FREON 114	<0.05	<0.05
METHANOL (see note)	2.10	0.54
ACETALDEHYDE	0.17	0.15
VINYL CHLORIDE	<0.05	<0.05
BROMOMETHANE	<0.05	<0.05
ETHANOL	2.17	2.28
CHLOROETHANE	<0.05	<0.05
ACETONITRILE	TRACE	TRACE
PROPENAL	TRACE_	TRACE_
ACETONE	0.26	0.30
PROPANAL	TRACE	TRACE
2-PROPANOL	0.22	0.25
FREON 11	<0.05	<0.05
FURAN	<0.05	<0.05
ACRYLONITRILE	TRACE	TRACE
PENTANE	<0.05	<0.05
2-METHYL-2-PROPANOL	TRACE	TRACE
METHYL ACETATE	TRACE	<0.05
1,1-DICHLOROETHENE	<0.05	<0.05
DICHLOROMETHANE	0.11	0.15
3-CHLOROPROPENE	<0.05	<0.05
FREON 113	<0.05	<0.05
N-PROPANOL	0.05	0.07
1,1-DICHLOROETHANE	<0.05	<0.05
BUTANAL	TRACE	TRACE
2-BUTANONE	TRACE	TRACE
1,2-DICHLOROETHENE	<0.05	<0.05
2-METHYLFURAN	<0.05	<0.05
ETHYL ACETATE	TRACE	TRACE
HEXANE	<0.05	<0.05
CHLOROFORM	<0.05	<0.05
2-BUTENAL	TRACE	TRACE
1,2-DICHLOROETHANE	TRACE	TRACE
1,1,1-TRICHLOROETHANE	<0.05	<0.05
N-BUTANOL	0.14	0.15
BENZENE	<0.05	<0.05
CARBON TETRACHLORIDE	<0.05	<0.05
2-PENTANONE	TRACE	TRACE
PENTANAL	TRACE	TRACE
1,2-DICHLOROPROPANE	<0.05	<0.05
1,4-DIOXANE	<0.05	<0.05
TRICHLOROETHENE	<0.05	<0.05
2,5-DIMETHYLFURAN	<0.05	<0.05
4-METHYL-2-PENTANONE	<0.05	<0.05
CIS-1,3-DICHLOROPROPENE	<0.05	<0.05
2-PENTENAL	<0.05	<0.05
TRANS-1,3-DICHLOROPROPENE	<0.05	<0.05
1,1,2-TRICHLOROETHANE	<0.05	<0.05
TOLUENE	TRACE	TRACE
HEXANAL	TRACE	TRACE
MESITYL OXIDE	<0.05	<0.05
1,2-DIBROMOETHANE	<0.05	<0.05
BUTYL ACETATE	TRACE	TRACE
TETRACHLOROETHENE	<0.05	<0.05
CHLOROBENZENE	TRACE	TRACE
ETHYL BENZENE	TRACE	TRACE

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	AA03223 S/N 1070 FGB 9/13/01@18:08GMT	AA03224 S/N 1018 LAB 9/13/01@18:15 GMT
TARGET COMPOUNDS (TO-14/POLAR)* **		
M- + P-XYLENES	TRACE	TRACE
2-HEPTANONE	<0.05	<0.05
CYCLOHEXANONE	TRACE	TRACE
HEPTANAL	TRACE	TRACE
STYRENE	<0.05	<0.05
1,1,2,2-TETRACHLOROETHANE	<0.05	<0.05
O-XYLENE	0.08	0.09
1,3,5-TRIMETHYLBENZENE	<0.05	<0.05
1,2,4-TRIMETHYLBENZENE	<0.05	<0.05
1,3-DICHLOROBENZENE	<0.05	<0.05
1,4-DICHLOROBENZENE	<0.05	<0.05
1,2-DICHLOROBENZENE	<0.05	<0.05
1,2,4-TRICHLOROBENZENE	<0.05	<0.05
HEXACHLORO-1,3-BUTADIENE	<0.05	<0.05
TARGET COMPOUNDS (TOXIC)		
1,3-BUTADIENE	<0.05	<0.05
ETHYLENE OXIDE	<0.05	<0.05
CARBON DISULFIDE	TRACE	TRACE
2-METHYL-2-PROPENAL	TRACE	<0.05
3-BUTEN-2-ONE	<0.05	<0.05
DIMETHYLDISULFIDE	<0.05	TRACE
2-ETHOXYETHANOL	<0.05	<0.05
OCTAMETHYLCYCLOTETRASILOXANE	0.79	0.54
NON-TARGET COMPOUNDS		
OCTAFLUOROPROPANE***	332.4	334.3
CHLOROPENTAFLUOROETHANE	0.03	0.04
2-METHYLPROPANE	0.03	0.03
HEXAMETHYLCYCLOTRISILOXANE	0.78	1.05
LIMONENE	0.06	0.06
TOTAL ALCOHOLS PLUS ACETONE	**4.93**	**3.59**
TARGET COMPOUNDS (GC)* **		
ETHYLENE	<0.6	<0.6
CARBON MONOXIDE	<1.1	<1.1
METHANE	20.0	20.0
HYDROGEN	22.0	22.0
CARBON DIOXIDE	5200	5800
TOTAL CONCENTRATION (NON-METHANE HYDROCARBONS)	**340.0**	**340.6**

< : Value is less than the laboratory report detection limit, and summed as 0.0.

TRACE: Amount detected is sufficient for compound identification only. Calculations are based on one-half of the laboratory report detection limit (1.1 mg/m3 for CO; 0.65 mg/m3 for CH4; 0.41 mg/m3 for H2; 0.05 mg/m3 for VOCs; and 0.02 mg/m3 for propenal.)

***Measurements are calibrated by multi-point initial calibration and verified by mid-point continuing calibration.

NOTE: Reported methanol level was above GC/MS calibration range (1500ppb) therefore was measured by GC-FID