

ION INDEX SELECTION for Group Table ID 4000

	ION 1	ION 2	ION 3	ION 4	ION 5	ION 6	ION 7
0	H+ ST1 1104	He+ ST2 4104	He++ ST3 4204	C+ ST4 12104	N+ ST5 14104	O+ ST6 16104	H+ LEF16 1105
1	H+ LEF16 1105	He+ LEF17 4105	C+ LEF18 12105	N+ LEF19 14105	O+ LEF20 16105	H+ ST1 1104	He+ ST2 4104
2	H+ ST1 1104	He+ ST2 4104	He++ ST3 4204	C+ ST4 12104	N+ ST5 14104	H+ LEF16 1105	He+ LEF17 4105
3	He+ ST2 4104	He++ ST3 4204	C+ ST4 12104	N+ ST5 14104	C+ LEF18 12105	N+ LEF19 14105	O+ LEF20 16105
4	H+ ST1 1104	He+ ST2 4104	He++ ST3 4204	C+ ST4 12104	N+ ST5 14104	O+ ST6 16104	H+ LEF16 1105
5	H+ ST1 1104	He+ ST2 4104	He++ ST3 4204	C+ ST4 12104	N+ ST5 14104	O+ ST6 16104	H+ LEF16 1105
6	H+ ST1 1104	He+ ST2 4104	He++ ST3 4204	C+ ST4 12104	N+ ST5 14104	O+ ST6 16104	H+ LEF16 1105
7	H+ ST1 1104	He+ ST2 4104	He++ ST3 4204	C+ ST4 12104	N+ ST5 14104	O+ ST6 16104	H+ LEF16 1105
8	H+ ST1 1104	He+ ST2 4104	He++ ST3 4204	C+ ST4 12104	N+ ST5 14104	O+ ST6 16104	H+ LEF16 1105
9	H+ ST1 1104	He+ ST2 4104	He++ ST3 4204	C+ ST4 12104	N+ ST5 14104	O+ ST6 16104	H+ LEF16 1105
10	H+ ST1 1104	He+ ST2 4104	He++ ST3 4204	C+ ST4 12104	N+ ST5 14104	O+ ST6 16104	H+ LEF16 1105
11	H+ ST1 1104	He+ ST2 4104	He++ ST3 4204	C+ ST4 12104	N+ ST5 14104	O+ ST6 16104	H+ LEF16 1105
12	H+ ST1 1104	He+ ST2 4104	He++ ST3 4204	C+ ST4 12104	N+ ST5 14104	O+ ST6 16104	H+ LEF16 1105

13	H+ ST1 1104	He+ ST2 4104	He++ ST3 4204	C+ ST4 12104	N+ ST5 14104	O+ ST6 16104	H+ LEF16 1105
14	H+ ST1 1104	He+ ST2 4104	He++ ST3 4204	C+ ST4 12104	N+ ST5 14104	O+ ST6 16104	H+ LEF16 1105
15	H+ ST1 1104	He+ ST2 4104	He++ ST3 4204	C+ ST4 12104	N+ ST5 14104	O+ ST6 16104	H+ LEF16 1105

ION INDEX SELECTION for Group Table ID 4001

	ION 1	ION 2	ION 3	ION 4	ION 5	ION 6	ION 7
0	H+ ST1 1100	He+ ST2 4100	He++ ST3 4200	C+ ST4 12100	N+ ST5 14100	O+ ST6 16100	H+ LEF16 1101
1	H+ LEF16 1101	He+ LEF17 4101	C+ LEF18 12101	N+ LEF19 14101	O+ LEF20 16101	H+ ST1 1100	He+ ST2 4100
2	H+ ST1 1100	He+ ST2 4100	He++ ST3 4200	N+ ST5 14100	O+ ST6 16100	H+ LEF16 1101	He+ LEF17 4101
3	H+ ST1 1100	H+ LEF16 1101	He+ ST2 4100	He+ LEF17 4101	O+ ST6 16100	O+ LEF20 16101	He++ ST3 4200
4	H+ ST1 1100	He+ ST2 4100	He++ ST3 4200	O+ ST6 16100	H+ LEF16 1101	He+ LEF17 4101	O+ LEF20 16101
5	H+ LEF16 1101	He+ LEF17 4101	C+ LEF18 12101	N+ LEF 19 14101	O+ LEF20 16101	H+ ST1 1100	He++ ST3 4200
6	H+ LEF16 1101	He+ LEF17 4101	C+ LEF18 12101	N+ LEF 19 14101	O+ LEF20 16101	N+ ST5 14100	O+ ST6 16100
7	H+ ST1 1100	He+ ST2 4100	He++ ST3 4200	N+ ST5 14000	O+ ST6 16100	N+ LEF 19 14101	O+ LEF20 16101

8	H+ ST1 1100	He+ ST2 4100	He++ ST3 4200	C+ ST4 12100	N+ ST5 14100	O+ ST6 16100	O+ LEF20 16101
9	H+ ST1 1100	He+ ST2 4100	He++ ST3 4200	C+ ST4 12100	N+ ST5 14100	O+ ST6 16100	He+ LEF17 4101
10	H+ ST1 1100	He+ ST2 4100	He++ ST3 4200	C+ ST4 12100	N+ ST5 14100	O+ ST6 16100	C+ LEF18 12101
11	H+ ST1 1100	He+ ST2 4100	He++ ST3 4200	C+ ST4 12100	N+ ST5 14100	O+ ST6 16100	N+ LEF 19 14101
12	H+ ST1 1100	He+ ST2 4100	He++ ST3 4200	C+ ST4 12100	N+ ST5 14100	O+ ST6 16100	H+ LEF16 1101
13	H+ ST1 1100	He+ ST2 4100	He++ ST3 4200	C+ ST4 12100	N+ ST5 14100	O+ ST6 16100	H+ LEF16 1101
14	H+ ST1 1100	He+ ST2 4100	He++ ST3 4200	C+ ST4 12100	N+ ST5 14100	O+ ST6 16100	H+ LEF16 1101
15	H+ ST1 1100	He+ ST2 4100	He++ ST3 4200	C+ ST4 12100	N+ ST5 14100	O+ ST6 16100	H+ LEF16 1101

ION INDEX SELECTION for Group Table ID 4200

	ION 1	ION 2	ION 3	ION 4	ION 5	ION 6	ION 7
0	H+ ST5 1106	He++ ST7 4206	O+ ST12 16106	O++ ST3 16206	S+++ ST4 32306	Na+ ST8 23106	S+ ST 11 32106
1	H+ ST5 1106	He++ ST7 4206	O+ ST12 16106	S+ ST 11 32106	O++ ST3 16206	S+++ ST4 32306	Na+ ST8 23106
2	H+ ST5 1106	He++ ST7 4206	C+ ST9 12106	O+ ST12 16106	N+ ST10 14106	S+ ST 11 32106	Na+ ST8 23106

3	H+ ST5 1106	He++ ST7 4206	C++ ST1 12206	O++ ST3 16206	S+++ ST4 32306	Na++ ST2 23206	Na+ ST8 23106
4	H+ ST5 1106	He++ ST7 4206	O+ ST12 16106	O++ ST3 16206	S+++ ST4 32306	Na+ ST8 23106	Na++ ST2 23206
5	H+ ST5 1106	He++ ST7 4206	Na+ LEF18 23107	C+ LEF19 12107	N+ LEF20 14107	He+ LEF17 4107	Mg+ LEF22 24107
6	ST15 0	H+ LEF16 1107	Na+ LEF18 23107	C+ LEF19 12107	N+ LEF20 14107	He+ LEF17 4107	Mg+ LEF22 24107
7	H+ ST5 1106	He++ ST7 4206	Na+ LEF18 23107	N+ LEF20 14107	Mg+ LEF22 24107	He+ LEF17 4107	O+ LEF21 16107
8	H+ ST5 1106	He++ ST7 4206	N+ LEF20 14107	Mg+ LEF22 24107	He+ LEF17 4107	O+ LEF21 16107	S+ LEF23 32107
9	H+ ST5 1106	He++ ST7 4206	N+ LEF20 14107	O++ ST3 16206	Mg+ LEF22 24107	S+++ ST4 32306	He+ LEF17 4107
10	H+ ST5 1106	He+ ST6 4106	He++ ST7 4206	C+ LEF19 12107	N+ LEF20 14107	N+ ST10 14106	O+ ST12 16106
11	H+ ST5 1106	He++ ST7 4206	Na+ ST8 23106	He+ LEF17 4107	O+ LEF21 16107	S+ LEF23 32107	Na++ ST2 23206
12	H+ ST5 1106	ST15 0	He+ ST6 4106	H+ LEF16 1107	He++ ST7 4206	O+ ST12 16106	N+ LEF20 14107
13	H+ ST5 1106	He++ ST7 4206	N+ LEF20 14107	O+ ST12 16106	S+ ST11 32106	Mg+ LEF22 24107	Na+ ST8 23106
14	H+ ST5 1106	He++ ST7 4206	C+ ST9 12106	C++ ST1 12206	O+ ST12 16106	O++ ST3 16206	S+++ ST4 32306
15	H+ ST5 1106	He++ ST7 4206	C+ ST9 12106	Na+ LEF18 23107	O+ ST12 16106	N+ LEF20 14107	C+ LEF19 12107

ION INDEX SELECTION for Group Table ID 4301

	ION 1	ION 2	ION 3	ION 4	ION 5	ION 6	ION 7
0	H+ ST4 1102	He++ ST6 4202	O+ ST10 16102	O++ ST 2 16202	S+++ ST3 32302	Na+ ST7 23102	S+ ST9 32102
1	H+ ST4 1102	He++ ST6 4202	O+ ST10 16102	S+ ST9 32102	O++ ST 2 16202	S+++ ST3 32302	Na+ ST7 23102
2	H+ ST4 1102	He+ ST5 4102	Na++ ST1 23202	O+ ST10 16102	N+ ST8 14102	S+ ST9 32102	Na+ ST7 23102
3	H+ ST4 1102	He++ ST6 4202	O+ ST10 16102	O++ ST 2 16202	S+++ ST3 32302	Na++ ST1 23202	Na+ ST7 23102
4	H+ ST4 1102	He++ ST6 4202	O+ ST10 16102	O++ ST 2 16202	S+++ ST3 32302	Na+ ST7 23102	Na++ ST1 23202
5	H+ ST4 1102	O+ ST10 16102	S+ ST9 32102	Na+ ST7 23102	O++ ST 2 16202	S+++ ST3 32302	Na++ ST1 23202
6	H+ LEF 16 1103	He+ LEF 17 4103	Mg+ LEF22 24103	N+ LEF20 14103	O+ LEF21 16103	Na+ LEF18 23103	S+ LEF23 32103
7	H+ ST4 1102	He++ ST6 4202	Cl+ LEF 24 35103	O+ LEF21 16103	S+ LEF 23 32103	Na+ LEF18 23103	Mg+ LEF22 24103
8	H+ ST4 1102	He++ ST6 4202	O+ LEF21 16103	S+ LEF 23 32103	Na+ LEF18 23103	Mg+ LEF22 24103	Cl+ LEF24 35103
9	H+ ST4 1102	He++ ST6 4202	O+ LEF21 16103	O++ ST 2 16202	S+ LEF 23 32103	S+++ ST3 32302	Na+ LEF18 23103
10	H+ ST4 1102	He+ ST5 4102	He++ ST6 4202	N+ LEF20 14103	O+ LEF21 16103	N+ ST8 14102	O+ ST10 16102
11	H+ ST4 1102	He++ ST6 4102	Na+ ST7 23102	Na+ LEF18 23103	Mg+ LEF22 24103	Cl+ LEF24 35103	Na++ ST1 23202
12	H+ ST4 1102	H+ LEF16 1103	He+ ST5 4102	He+ LEF17 4103	He++ ST6 4202	O+ ST10 16102	O+ LEF21 16103
13	H+ ST4 1102	He++ ST6 4202	O+ LEF21 16103	O+ ST10 16102	S+ ST9 32102	S+ LEF23 32103	Na+ ST7 23102

14	H+ ST4 1102	He++ ST6 4202	Na+ ST7 23102	Na++ ST1 23202	O+ ST10 16102	O++ ST 2 16202	S+++ ST3 32302
15	H+ ST4 1102	He++ ST6 4202	N+ ST8 14102	N+ LEF20 14103	O+ ST10 16102	O+ LEF21 16103	Mg+ LEF22 24103

ION INDEX SELECTION for Group Table ID 6015 (Inner Magnetosphere)

	ION 1	ION 2	ION 3	ION 4	ION 5	ION 6	ION 7
0	H+ ST1 1108	O+ ST7 16108	OH+ ST8 17108	H ₂ O+ ST9 18108	H ₃ O+ ST10 19108	N+ ST6 14108	C+ ST5 12108
1	H+ ST1 1108	O+ ST7 16108	OH+ ST8 17108	H ₂ O+ ST9 18108	H ₃ O+ ST10 19108	N+ LEF19 14109	C+ ST5 12108
2	H+ ST1 1108	O+ ST7 16108	OH+ ST8 17108	H ₂ O+ ST9 18108	H ₃ O+ ST10 19108	N+ LEF19 14109	O++ ST4 16208
3	H+ ST1 1108	O+ ST7 16108	OH+ ST8 17108	H ₂ O+ ST9 18108	H ₃ O+ ST10 19108	H ₂ + LEF17 2109	H ₃ + LEF16 3109
4	H+ ST1 1108	O+ ST7 16108	OH+ ST8 17108	H ₂ O+ ST9 18108	H ₃ O+ ST10 19108	N+ LEF19 14109	N ₂ + LEF18 28109
5	H+ ST1 1108	O+ ST7 16108	OH+ ST8 17108	H ₂ O+ ST9 18108	H ₃ O+ ST10 19108	He++ ST2 4208	He ⁺ ST3 4108
6	H+ ST1 1108	O+ ST7 16108	OH+ ST8 17108	H ₂ O+ ST9 18108	H ₃ O+ ST10 19108	O ⁺ LEF20 16109	N+ LEF19 14109
7	H+ ST1 1108	O+ ST7 16108	O++ ST4 16208	OH+ ST8 17108	H ₂ O+ ST9 18108	H ₃ O+ ST10 19108	N+ LEF19 14109
8	H+ ST1 1108	O+ ST7 16108	O++ ST4 16208	OH+ ST8 17108	H ₂ O+ ST9 18108	H ₃ O+ ST10 19108	C+ ST5 12108
9	H+ ST1 1108	O+ ST7 16108	O++ ST4 16208	OH+ ST8 17108	H ₂ O+ ST9 18108	H ₃ O+ ST10 19108	N ₂ + LEF18 28109

10	H+ ST1 1108	O+ ST7 16108	O++ ST4 16208	OH+ ST8 17108	H ₂ O+ ST9 18108	H ₃ O+ ST10 19108	H ₂ + LEF17 2109
11	H+ ST1 1108	O+ ST7 16108	O++ ST4 16208	OH+ ST8 17108	H ₂ O+ ST9 18108	H ₂ + LEF17 2109	H ₃ + LEF16 3109
12	H+ ST1 1108	O+ ST7 16108	O++ ST4 16208	OH+ ST8 17108	H ₂ O+ ST9 18108	He++ ST2 4208	He ⁺ ST3 4108
13	H+ ST1 1108	O+ ST7 16108	O++ ST4 16208	OH+ ST8 17108	H ₂ O+ ST9 18108	H ₂ + LEF17 2109	O ⁺ LEF20 16109
14	H+ ST1 1108	O+ ST7 16108	O++ ST4 16208	OH+ ST8 17108	C+ ST5 12108	N+ ST6 14108	H ₂ + LEF17 2109
15	H+ ST1 1108	O+ ST7 16108	He++ ST2 4208	H ₂ + LEF17 2109	O ⁺ LEF20 16109	N+ LEF19 14109	N ₂ + LEF18 28109

ION INDEX SELECTION for Group Table ID 6016 (SOI)

	ION 1	ION 2	ION 3	ION 4	ION 5	ION 6	ION 7
All	H+ ST1 1110	LM ST2 2110	CNO ST3 14110	W ST4 17110	H+ LEF16 1111	CNO LEF17 14111	O ₂ + ST5 32110

ION INDEX SELECTION for Group Table ID 6017 (Solar Wind)

	ION 1	ION 2	ION 3	ION 4	ION 5	ION 6	ION 7
0	H+ ST1 1112	He ⁺⁺ ST2 4212	He ⁺ ST3 4112	O+ ST6 16112	N+ ST5 14112	C+ ST4 12112	N ₂ + ST9 28112
1	H+ ST1 1112	He ⁺⁺ ST2 4212	He ⁺ ST3 4112	O+ ST6 16112	OH+ ST7 17112	H ₂ O+ ST8 18112	O ₂ + ST10 32112

2	H+ ST1 1112	He ⁺⁺ ST2 4212	He ⁺ ST3 4112	O+ ST6 16112	N+ ST5 14112	N ₂ + ST9 28112	O ₂ + ST10 32112
3	H+ ST1 1112	He ⁺⁺ ST2 4212	He ⁺ ST3 4112	H+ LEF16 1113	He+ LEF17 4113	C+ LEF18 12113	N+ LEF19 14113
4	H+ ST1 1112	He ⁺⁺ ST2 4212	He ⁺ ST3 4112	H+ LEF16 1113	He+ LEF17 4113	N+ LEF19 14113	O+ LEF20 16113
5	H+ ST1 1112	He ⁺⁺ ST2 4212	He ⁺ ST3 4112	H+ LEF16 1113	He+ LEF17 4113	N+ LEF19 14113	C+ LEF18 12113
6	H+ ST1 1112	He ⁺⁺ ST2 4212	He ⁺ ST3 4112	N+ ST5 14112	N ₂ + ST9 28112	N+ LEF19 14113	C+ LEF18 12113
7	H+ ST1 1112	He ⁺⁺ ST2 4212	He ⁺ ST3 4112	N+ ST5 14112	N ₂ + ST9 28112	N+ LEF19 14113	C+ ST4 12112
8	H+ ST1 1112	He ⁺⁺ ST2 4212	He ⁺ ST3 4112	O+ ST6 16112	C+ LEF18 12113	N+ LEF19 14113	O+ LEF20 16113
9	H+ ST1 1112	He ⁺⁺ ST2 4212	He ⁺ ST3 4112	O+ ST6 16112	OH+ ST7 17112	H ₂ O+ ST8 18112	N ₂ + ST9 28112
10	H+ ST1 1112	He ⁺⁺ ST2 4212	He ⁺ ST3 4112	O+ ST6 16112	OH+ ST7 17112	H ₂ O+ ST8 18112	O+ LEF20 16113
11	H+ ST1 1112	He ⁺⁺ ST2 4212	He ⁺ ST3 4112	N+ LEF19 14113	C+ LEF18 12113	C+ ST4 12112	N+ ST5 14112
12	H+ ST1 1112	He ⁺⁺ ST2 4212	He ⁺ ST3 4112	N ₂ + ST9 28112	N+ ST5 14112	N+ LEF19 14113	C+ ST4 12112
13	H+ ST1 1112	He ⁺⁺ ST2 4212	He ⁺ ST3 4112	O ₂ + ST10 32112	N ₂ + ST9 28112	N+ ST5 14112	C+ ST4 12112
14	H+ ST1 1112	He ⁺⁺ ST2 4212	He ⁺ ST3 4112	C+ ST4 12112	N+ ST5 14112	N+ LEF19 14113	N ₂ + ST9 28112
15	H+ ST1 1112	He ⁺⁺ ST2 4212	He ⁺ ST3 4112	C+ LEF18 12113	N+ LEF19 14113	O+ LEF20 16113	N+ ST5 14112

ION INDEX SELECTION for Group Table ID 6018 (Titan Torus)

	ION 1	ION 2	ION 3	ION 4	ION 5	ION 6	ION 7
0	H+ ST1 1114	N+ ST6 14114	O+ ST7 16114	C+ ST5 12114	N ₂ + ST9 28114	C ₂ H ₂ + ST8 26114	C ₃ H ₅ + ST10 41114
1	H+ ST1 1114	N+ ST6 14114	O+ ST7 16114		H+ LEF16 1115		
2	H+ ST1 1114	N+ ST6 14114	O+ ST7 16114	N ₂ + ST9 28114		C+ ST5 12114	
3	H+ ST1 1114	N+ ST6 14114	O+ ST7 16114	He ⁺⁺ ST2 4214	He+ ST3 4114	C+ ST5 12114	O ⁺⁺ ST4 16214
4	H+ ST1 1114	N+ ST6 14114	O+ ST7 16114			C+ ST5 12114	
5	H+ ST1 1114	N+ ST6 14114	O+ ST7 16114			C ₃ H ₅ + ST8 41114	C ₂ H ₂ + ST10 26114
6	H+ ST1 1114	N+ ST6 14114	O+ ST7 16114		C+ ST5 12114	N ₂ + ST9 28114	
7	H+ ST1 1114	N+ ST6 14114	O+ ST7 16114				
8	H+ ST1 1114	O+ ST7 16114	N+ ST6 14114		C+ ST5 12114	N ₂ + ST9 28114	
9	H+ ST1 1114	O+ ST7 16114	N+ ST6 14114		C+ ST5 12114		N ₂ + ST9 28114
10	H+ ST1 1112	O+ ST7 16114	N+ ST6 14114	C ₂ H ₂ + ST8 26114	C ₃ H ₅ + ST8 41114		
11	H+ ST1 1112	O+ ST7 16114	N+ ST6 14114				C ₃ H ₅ + ST8 41114
12	H+ ST1 1112	O+ ST7 16114	N+ ST6 14114				

13	H+ ST1 1112	O+ ST7 16114	N+ ST6 14114		C+ ST5 12114		N ₂ + ST9 28114
14	H+ ST1 1112	O+ ST7 16114	N+ ST6 14114		C+ ST5 12114		
15	H+ ST1 1112	O+ ST7 16114	N+ ST6 14114	N ₂ + ST9 28114			

ION SELECTION INDEX TABLE FOR SIMPLE GROUP TABLE (#6019)

Index	Ion1	Ion2	Ion3	Ion4	Ion5	Ion6	Ion7
0	ST H+ 1116	ST W+ 17116	ST M+ 13116	LEF H+ 1117	LEF C+ 12117	LEF N+ 14117	LEF O+ 16117
1	ST H+ 1116	ST W+ 17116	ST M+ 13116	LEF C+ 12117	LEF N+ 14117	LEF O+ 16117	LEF H+ 1117
2	ST H+ 1116	ST W+ 17116	ST M+ 13116	LEF N+ 14117	LEF O+ 16117	LEF H+ 1117	LEF C+ 12117
3	ST H+ 1116	ST W+ 17116	ST M+ 13116	LEF O+ 16117	LEF H+ 1117	LEF C+ 12117	LEF N+ 14117
4	ST H+ 1116	ST W+ 17116	LEF N+ 14117	LEF O+ 16117	LEF C+ 12117	LEF H+ 1117	ST M+ 13116
5	ST H+ 1116	ST W+ 17116	LEF C+ 12117	LEF N+ 14117	LEF O+ 16117	LEF H+ 1117	ST M+ 13116
6	ST H+ 1116	ST W+ 17116	LEF O+ 16117	LEF C+ 12117	LEF N+ 14117	LEF H+ 1117	ST M+ 13116
7	ST H+ 1116	ST W+ 17116	LEF H+ 1117	LEF C+ 12117	LEF N+ 14117	LEF O+ 16117	ST M+ 13116

8	ST H+ 1116	ST W+ 17116	LEF O+ 16117	ST M+ 13116	LEF C+ 12117	LEF H+ 1117	LEF N+ 14117
9	ST H+ 1116	ST W+ 17116	LEF O+ 16117	ST M+ 13116	LEF C+ 12117	LEF N+ 14117	LEF H+ 1117
10	ST H+ 1116	ST W+ 17116	LEF O+ 16117	ST M+ 13116	LEF N+ 14117	LEF H+ 1117	LEF C+ 12117
11	ST H+ 1116	ST W+ 17116	LEF N+ 14117	ST M+ 13116	LEF C+ 12117	LEF O+ 16117	LEF H+ 1117
12	ST H+ 1116	ST W+ 17116	LEF N+ 14117	ST M+ 13116	LEF O+ 16117	LEF H+ 1117	LEF C+ 12117
13	ST H+ 1116	ST W+ 17116	LEF N+ 14117	ST M+ 13116	LEF H+ 1117	LEF C+ 12117	LEF O+ 16117
14	ST H+ 1116	ST W+ 17116	LEF C+ 12117	ST M+ 13116	LEF H+ 1117	LEF O+ 16117	LEF N+ 14117
15	ST H+ 1116	ST W+ 17116	LEF C+ 12117	ST M+ 13116	LEF H+ 1117	LEF N+ 14117	LEF O+ 16117

1 Ion Selection Subtable 11xx (Protons)

Ion Number	Species	Group Table	ST or LEF
1100	H ⁺	4001	ST
1101	H ⁺	4001	LEF
1102	H ⁺	4301	ST
1103	H ⁺	4301	LEF
1104	H ⁺	4000	ST
1105	H ⁺	4000	LEF
1106	H ⁺	4200	ST
1107	H ⁺	4200	LEF
1108	H ⁺	6015	ST
1109	Not used		
1110	H ⁺	6016	ST
1111	H ⁺	6016	LEF
1112	H ⁺	6017	ST
1113	H ⁺	6017	LEF
1114	H ⁺	6018	ST
1115	Not used		
1116	H ⁺	6019	ST
1117	H ⁺	6019	LEF

2 Ion Selection Subtable 42xx (He⁺⁺)

Ion Number	Species	Group Table	ST or LEF
4200	He ⁺⁺	4001	ST
4201	Not used		
4202	He ⁺⁺	4301	ST
4203	Not used		
4204	He ⁺⁺	4000	ST
4205	Not used		
4206	He ⁺⁺	4200	ST
4207	Not used		
4208	He ⁺⁺	6015	ST
4209	Not used		
4210	Not used		
4211	Not used		
4212	He ⁺⁺	6017	ST
4213	Not used		
4214	He ⁺⁺	6018	ST

2 Ion Selection Subtable 21xx (H₂⁺)

Ion Number	Species	Group Table	ST or LEF
2100	Not used		
2101	Not used		
2102	Not used		

2103	Not used		
2104	Not used		
2105	Not used		
2106	Not used		
2107	Not used		
2108	Not used		
2109	H ₂ ⁺	6015	LEF
2110	H ₂ ⁺ & H ₃ ⁺	6016	ST
2111	Not used		
2112	Not used		
2113	Not used		

3 Ion Selection Subtable 31xx (H₃⁺)

Ion Number	Species	Group Table	ST or LEF
3100	Not used		
3101	Not used		
3102	Not used		
3103	Not used		
3104	Not used		
3105	Not used		
3106	Not used		
3107	Not used		
3108	Not used		
3109	H ₃ ⁺	6015	LEF
3110	Not used		
3111	Not used		
3112	Not used		
3113	Not used		

4 Ion Selection Subtable 41xx (He⁺)

Ion Number	Species	Group Table	ST or LEF
4100	He+	4001	ST
4101	He+	4001	LEF
4102	He ⁺	4301	ST
4103	He ⁺	4301	LEF
4104	He ⁺	4000	ST
4105	He ⁺	4000	LEF
4106	He ⁺	4200	ST
4107	He ⁺	4200	LEF
4108	He ⁺	6015	ST
4109	Not used		
4110	Not used		
4111	Not used		
4112	He ⁺	6017	ST

4113	He ⁺	6017	LEF
4114	He ⁺	6018	ST

6 Ion Selection Subtable 122xx (m=12, q=2)

Ion Number	Species	Group Table	ST or LEF
12200	Not used		
12201	Not used		
12202	Not used		
12203	Not used		
12204	Not used		
12205	Not used		
12206	C ⁺⁺	4200	ST
12207	Not used		
12208	Not used		
12209	Not used		
12210	Not used		
12211	Not used		
12212	Not used		
12213	Not used		

8 Ion Selection Subtable 162xx (O⁺⁺)

Ion Number	Species	Group Table	ST or LEF
16200	Not used		
16201	Not used		
16202	O ⁺⁺	4301	ST
16203	Not used		
16204	Not used		
16205	Not used		
16206	O ⁺⁺	4200	ST
16207	Not used		
16208	O ⁺⁺	6015	ST
16209	Not used		
16210	Not used		
16211	Not used		
16212	Not used		
16213	Not used		
16214	O ⁺⁺	6018	ST

10.6667 Ion Selection Subtable 323xx (m=32, q=3)

Ion Number	Species	Group Table	ST or LEF
32300	Not used		
32301	Not used		
32302	S ⁺⁺⁺	4301	ST

32303	Not used		
32304	Not used		
32305	Not used		
32306	S ⁺⁺⁺	4200	ST
32307	Not used		
32308	Not used		
32309	Not used		
32310	Not used		

11.3333 Ion Selection Subtable 232xx (m=23, q=2)

Ion Number	Species	Group Table	ST or LEF
23200	Not used		
23201	Not used		
23202	Na ⁺⁺	4301	ST
23203	Not used		
23204	Not used		
23205	Not used		
23206	Na ⁺⁺	4200	ST
23207	Not used		

12 Ion Selection Subtable 121xx (m=12, q=1)

Ion Number	Species	Group Table	ST or LEF
12100	C ⁺	4001	ST
12101	C ⁺	4001	LEF
12102	Not used		
12103	Not used		
12104	C ⁺	4000	ST
12105	C ⁺	4000	LEF
12106	C ⁺	4200	ST
12107	C ⁺	4200	LEF
12108	C ⁺	6015	ST
12109	Not used		
12110	Not used		
12111	Not used		
12112	C ⁺	6017	ST
12113	C ⁺	6017	LEF
12114	C ⁺	6018	ST
12115	Not used		
12116	Not used		
12117	C ⁺	6019	LEF

Ion Selection Subtable 131xx (m=12-15, q=1)

Ion Number	Species	Group Table	ST or LEF
13116	M ⁺	6019	ST

14 Ion Selection Subtable 141xx (m=14, q=1)

Ion Number	Species	Group Table	ST or LEF
14100	N ⁺	4001	ST
14101	N ⁺	4001	LEF
14102	N ⁺	4301	ST
14103	N ⁺	4301	LEF
14104	N ⁺	4000	ST
14105	N ⁺	4000	LEF
14106	N ⁺	4200	ST
14107	N ⁺	4200	LEF
14108	N ⁺	6015	ST
14109	N ⁺	6015	LEF
14110	C ⁺ , N ⁺ , & O ⁺	6016	ST
14111	C ⁺ , N ⁺ , & O ⁺	6016	LEF
14112	N ⁺	6017	ST
14113	N ⁺	6017	LEF
14114	N ⁺	6018	ST
14115	Not used		
14116	Not used		
14117	N ⁺	6109	LEF

16 Ion Selection Subtable 161xx (m=16, q=1)

Ion Number	Species	Group Table	ST or LEF
16100	O ⁺	4001	ST
16101	O ⁺	4001	LEF
16102	O ⁺	4301	ST
16103	O ⁺	4301	LEF
16104	O ⁺	4000	ST
16105	O ⁺	4000	LEF
16106	O ⁺	4200	ST
16107	O ⁺	4200	LEF
16108	O ⁺	6015	ST
16109	O ⁺	6015	LEF
16110	Not used		
16111	Not used		
16112	O ⁺	6017	ST
16113	O ⁺	6017	LEF
16114	O ⁺	6018	ST
16115	Not used		
16116	Not used		
16117	O ⁺	6019	LEF

17 Ion Selection Subtable 171xx (m=17, q=1)

W⁺ has masses 16-19

Ion Number	Species	Group Table	ST or LEF
17100	Not used		
17101	Not used		
17102	Not used		
17103	Not used		
17104	Not used		
17105	Not used		
17106	Not used		
17107	Not used		
17108	OH ⁺	6015	ST
17109	Not used		
17110	OH ⁺ & H ₂ O ⁺	6016	ST
17111	Not used		
17112	OH ⁺	6017	ST
17113	Not used		
17114	Not used		
17115	Not used		
17116	W ⁺	6019	ST
17117	Not used		

18 Ion Selection Subtable 181xx (m=18, q=1)

Ion Number	Species	Group Table	ST or LEF
18100	Not used		
18101	Not used		
18102	Not used		
18103	Not used		
18104	Not used		
18105	Not used		
18106	Not used		
18107	Not used		
18108	H ₂ O ⁺	6015	ST

19 Ion Selection Subtable 191xx (m=19, q=1)

Ion Number	Species	Group Table	ST or LEF
19100	Not used		
19101	Not used		
19102	Not used		
19103	Not used		
19104	Not used		
19105	Not used		
19106	Not used		

19107	Not used		
19108	H ₃ O ⁺	6015	ST
19109	Not used		
19110	Not used		
19111	Not used		

23 Ion Selection Subtable 231xx (m=23, q=1)

Ion Number	Species	Group Table	ST or LEF
23100	Not used		
23101	Not used		
23102	Na ⁺	4301	ST
23103	Na ⁺	4301	LEF
23104	Not used		
23105	Not used		
23106	Na ⁺	4200	ST
23107	Na ⁺	4200	LEF

24 Ion Selection Subtable 241xx (m=24, q=1)

Ion Number	Species	Group Table	ST or LEF
24100	Not used		
24101	Not used		
24102	Not used		
24103	Mg ⁺	4301	LEF
24104	Not used		
24105	Not used		
24106	Not used		
24107	Mg ⁺	4200	LEF

26 Ion Selection Subtable 261xx (m=26, q=1)

Ion Number	Species	Group Table	ST or LEF
26100	Not used		
26101	Not used		
26102	Not used		
26103	Not used		
26104	Not used		
26105	Not used		
26106	Not used		
26107	Not used		
26108	Not used		
26109	Not used		
26110	Not used		
26111	Not used		

26112	Not used		
26113	Not used		
26114	$C_2H_2^+$	6018	ST

28 Ion Selection Subtable 281xx (m=28, q=1)

Ion Number	Species	Group Table	ST or LEF
28100	Not used		
28101	Not used		
28102	Not used		
28103	Not used		
28104	Not used		
28105	Not used		
28106	Not used		
28107	Not used		
28108	Not used		
28109	N_2^+	6015	LEF
28110	Not used		
28111	Not used		
28112	N_2^+	6017	ST
28113	Not used		
28114	N_2^+	6018	ST

32 Ion Selection Subtable 321xx (m=32, q=1)

Ion Number	Species	Group Table	ST or LEF
32100	Not used		
32101	Not used		
32102	S^+	4301	ST
32103	S^+	4301	LEF
32104	Not used		
32105	Not used		
32106	S^+	4200	ST
32107	S^+	4200	LEF
32108	Not used		
32109	Not used		
32110	Not used		
32111	O_2^+	6016	LEF
32112	O_2^+	6017	ST

35 Ion Selection Subtable 351xx (m=35, q=1)

Ion Number	Species	Group Table	ST or LEF
35100	Not used		
35101	Not used		
35102	Not used		
35103	Cl^+	4301	LEF

35104	Not used		
35105	Not used		
35106	Not used		
35107	Cl ⁺	4200	LEF

41 Ion Selection Subtable 411xx (m=41, q=1)

Ion Number	Species	Group Table	ST or LEF
41100	Not used		
41101	Not used		
41102	Not used		
41103	Not used		
41104	Not used		
41105	Not used		
41106	Not used		
41107	Not used		
41108	Not used		
41109	Not used		
41110	Not used		
41111	Not used		
41112	Not used		
41113	Not used		
41114	C ₃ H ₅ ⁺	6018	ST

Ion Selection Subtable 0 (m & q not defined)

Ion Number	Species	Group Table	ST or LEF
0	Undefined	4200	ST