



312 File Number: **SATMPL2020052600056**

Filing Description

Question	Response
Description	VIASAT-NGSO modification

Satellite Information

Question	Response
Select Orbit Type	NGSO
Space Station or Satellite Network Name	VIASAT-NGSO
Estimated Lifetime of Satellite(s) From Date of Launch	15 Years
Will the space station(s) operate on a Common Carrier basis?	No

Operating Frequency Bands (8)

Nature of service	Description	Frequency Band(s)	Mode Type
Fixed-Satellite Service		17800.0 MHz -18600.0 MHz	Transmit
Fixed-Satellite Service		50400.0 MHz -51400.0 MHz	Receive
Fixed-Satellite Service		47200.0 MHz -50200.0 MHz	Receive
Fixed-Satellite Service		37500.0 MHz -42000.0 MHz	Transmit
Fixed-Satellite Service		29500.0 MHz -30000.0 MHz	Receive
Fixed-Satellite Service		27500.0 MHz -29100.0 MHz	Receive
Fixed-Satellite Service		19700.0 MHz -20200.0 MHz	Transmit
Fixed-Satellite Service		18800.0 MHz -19300.0 MHz	Transmit

**Orbital
Information For
Non-
Geostationary
Satellites**

Question	Response
Total Number of Satellites in the active constellation	288
Orbit Epoch Date	01/01/2021
Celestial Reference Body	Earth

Orbital Plane 1:

Question	Response
Number of Satellites in Plane	36
Inclination Angle	45.0 degrees
Right Ascension of Ascending Node	0.0 degrees
Argument of Perigee	90.0 degrees
Orbital Period	6695.7 seconds
Apogee	1300.0 km
Perigee	1300.0 km
Active Service Arc Begin Angle with respect to Ascending Node	-179.999 degrees
Active Service Arc End Angle with respect to Ascending Node	180.0 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	350.0
2	340.0
3	330.0
4	320.0
5	310.0
6	300.0
7	290.0
8	280.0
9	270.0
10	260.0
11	250.0
12	240.0

13	230.0
14	220.0
15	210.0
16	200.0
17	190.0
18	180.0
19	170.0
20	160.0
21	150.0
22	140.0
23	130.0
24	120.0
25	110.0
26	100.0
27	90.0
28	80.0
29	70.0
30	60.0
31	50.0
32	40.0
33	30.0
34	20.0
35	10.0
36	0.0

Orbital Plane 2:

Question	Response
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Number of Satellites in Plane	36
Inclination Angle	45.0 degrees
Right Ascension of Ascending Node	45.0 degrees
Argument of Perigee	90.0 degrees
Orbital Period	6695.7 seconds
Apogee	1300.0 km
Perigee	1300.0 km
Active Service Arc Begin Angle with respect to Ascending Node	-179.999 degrees
Active Service Arc End Angle with respect to Ascending Node	180.0 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	351.25
2	341.25
3	331.25
4	321.25
5	311.25
6	301.25
7	291.25
8	281.25
9	271.25
10	261.25
11	251.25
12	241.25
13	231.25
14	221.25

15	211.25
16	201.25
17	191.25
18	181.25
19	171.25
20	161.25
21	151.25
22	141.25
23	131.25
24	121.25
25	111.24
26	101.25
27	91.25
28	81.25
29	71.25
30	61.25
31	51.25
32	41.25
33	31.25
34	21.25
35	11.25
36	1.25

Orbital Plane 3:

Question	Response
Number of Satellites in Plane	36
Inclination Angle	45.0 degrees

Right Ascension of Ascending Node	90.0 degrees
Argument of Perigee	90.0 degrees
Orbital Period	6695.7 seconds
Apogee	1300.0 km
Perigee	1300.0 km
Active Service Arc Begin Angle with respect to Ascending Node	-179.999 degrees
Active Service Arc End Angle with respect to Ascending Node	180.0 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	352.5
2	342.5
3	332.5
4	322.5
5	312.5
6	302.5
7	292.5
8	282.5
9	272.5
10	262.5
11	252.5
12	242.5
13	232.5
14	222.5
15	212.5
16	202.5

17	192.5
18	182.5
19	172.5
20	162.5
21	152.5
22	142.5
23	132.5
24	122.5
25	112.5
26	102.5
27	92.5
28	82.5
29	72.5
30	62.5
31	52.5
32	42.5
33	32.5
34	22.5
35	12.5
36	2.5

Orbital Plane 4:

Question	Response
Number of Satellites in Plane	36
Inclination Angle	45.0 degrees
Right Ascension of Ascending Node	135.0 degrees
Argument of Perigee	90.0 degrees

Orbital Period	6695.7 seconds
Apogee	1300.0 km
Perigee	1300.0 km
Active Service Arc Begin Angle with respect to Ascending Node	-179.999 degrees
Active Service Arc End Angle with respect to Ascending Node	180.0 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	353.75
2	343.75
3	333.75
4	323.75
5	313.75
6	303.75
7	293.75
8	283.75
9	273.75
10	263.75
11	253.75
12	243.75
13	233.75
14	223.75
15	213.75
16	203.75
17	193.75
18	183.75

19	173.75
20	163.75
21	153.75
22	143.75
23	133.75
24	123.75
25	113.75
26	103.75
27	93.75
28	83.75
29	73.75
30	63.75
31	53.75
32	43.75
33	33.75
34	23.75
35	13.75
36	3.75

Orbital Plane 5:

Question	Response
Number of Satellites in Plane	36
Inclination Angle	45.0 degrees
Right Ascension of Ascending Node	180.0 degrees
Argument of Perigee	90.0 degrees
Orbital Period	6695.7 seconds
Apogee	1300.0 km

Perigee	1300.0 km
Active Service Arc Begin Angle with respect to Ascending Node	-179.999 degrees
Active Service Arc End Angle with respect to Ascending Node	180.0 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	355.0
2	345.0
3	335.0
4	325.0
5	315.0
6	305.0
7	295.0
8	285.0
9	275.0
10	265.0
11	255.0
12	245.0
13	235.0
14	225.0
15	215.0
16	205.0
17	195.0
18	185.0
19	175.0
20	165.0

21	155.0
22	145.0
23	135.0
24	125.0
25	115.0
26	105.0
27	95.0
28	85.0
29	75.0
30	65.0
31	55.0
32	45.0
33	35.0
34	25.0
35	15.0
36	5.0

Orbital Plane 6:

Question	Response
Number of Satellites in Plane	36
Inclination Angle	45.0 degrees
Right Ascension of Ascending Node	225.0 degrees
Argument of Perigee	90.0 degrees
Orbital Period	6695.7 seconds
Apogee	1300.0 km
Perigee	1300.0 km
Active Service Arc Begin Angle with respect to Ascending Node	-179.999 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	356.25
2	346.25
3	336.25
4	326.25
5	316.25
6	306.25
7	296.25
8	286.25
9	276.25
10	266.25
11	256.25
12	246.25
13	236.25
14	226.25
15	216.25
16	206.25
17	196.25
18	186.25
19	176.25
20	166.25
21	156.25
22	146.25

23	136.25
24	126.25
25	116.25
26	106.25
27	96.25
28	86.25
29	76.25
30	66.25
31	56.25
32	46.25
33	36.25
34	26.25
35	16.25
36	6.25

Orbital Plane 7:

Question	Response
Number of Satellites in Plane	36
Inclination Angle	45.0 degrees
Right Ascension of Ascending Node	270.0 degrees
Argument of Perigee	90.0 degrees
Orbital Period	6695.7 seconds
Apogee	1300.0 km
Perigee	1300.0 km
Active Service Arc Begin Angle with respect to Ascending Node	-179.999 degrees
Active Service Arc End Angle with respect to Ascending Node	180.0 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	357.5
2	347.5
3	337.5
4	327.5
5	317.5
6	307.5
7	297.5
8	287.5
9	277.5
10	267.5
11	257.5
12	247.5
13	237.5
14	227.5
15	217.5
16	207.5
17	197.5
18	187.5
19	177.5
20	167.5
21	157.5
22	147.4
23	137.5
24	127.5
25	117.5

26	107.5
27	97.5
28	87.5
29	77.5
30	67.5
31	57.5
32	47.5
33	37.5
34	27.5
35	17.5
36	7.5

Orbital Plane 8:

Question	Response
Number of Satellites in Plane	36
Inclination Angle	45.0 degrees
Right Ascension of Ascending Node	315.0 degrees
Argument of Perigee	90.0 degrees
Orbital Period	6695.7 seconds
Apogee	1300.0 km
Perigee	1300.0 km
Active Service Arc Begin Angle with respect to Ascending Node	-117.999 degrees
Active Service Arc End Angle with respect to Ascending Node	180.0 degrees

Mean Anomaly For Each Satellite

Satellite Number	Mean Anomaly (degrees) at the Orbit Epoch Date
1	358.75

2	348.75
3	338.75
4	328.75
5	318.75
6	308.75
7	298.75
8	288.75
9	278.75
10	268.75
11	258.75
12	248.75
13	238.75
14	228.75
15	218.75
16	208.75
17	198.75
18	188.75
19	178.75
20	168.75
21	158.75
22	148.75
23	138.75
24	128.75
25	118.75
26	108.75
27	98.75

28	88.75
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29	78.75
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30	68.75
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31	58.75
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32	48.75
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33	38.75
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34	28.75
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35	18.75
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36	8.75
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Receiving Beams 1:

Question	Response
Beam ID	R1HR
Receive Beam Frequency	27500.0 MHz -29100.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	RHCP
Peak Gain	46.1 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	19.1 dB/K
Min. Saturation Flux Density	-117.9 dBW/m ²
Max. Saturation Flux Density	-69.9 dBW/m ²
Co- or Cross Polar Mode	C
Service Area Description	XAA

Receiving Beams 2:

Question	Response
Beam ID	R1HL
Receive Beam Frequency	27500.0 MHz -29100.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	LHCP
Peak Gain	46.1 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees

Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	19.1 dB/K
Min. Saturation Flux Density	-117.9 dBW/m2
Max. Saturation Flux Density	-69.9 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	XAA

Receiving Beams 3:

Question	Response
Beam ID	R1LR
Receive Beam Frequency	27500.0 MHz -29100.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	RHCP
Peak Gain	41.7 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	14.7 dB/K
Min. Saturation Flux Density	-113.6 dBW/m2
Max. Saturation Flux Density	-65.5 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	XAA

Receiving

Beams 4:

Question	Response
Beam ID	R1LL
Receive Beam Frequency	27500.0 MHz -29100.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	LHCP
Peak Gain	41.7 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	14.7 dB/K
Min. Saturation Flux Density	-113.6 dBW/m ²
Max. Saturation Flux Density	-65.6 dBW/m ²
Co- or Cross Polar Mode	C
Service Area Description	XAA

Receiving Beams 5:

Question	Response
Beam ID	R2HR
Receive Beam Frequency	29500.0 MHz -30000.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	RHCP
Peak Gain	46.3 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	

Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	19.3 dB/K
Min. Saturation Flux Density	-123.0 dBW/m2
Max. Saturation Flux Density	-75.0 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	XAA

Receiving Beams 6:

Question	Response
Beam ID	R2HL
Receive Beam Frequency	29500.0 MHz -30000.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	LHCP
Peak Gain	46.3 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	19.3 dB/K
Min. Saturation Flux Density	-123.0 dBW/m2
Max. Saturation Flux Density	-75.0 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	XAA

Receiving Beams 7:

Question	Response
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Beam ID	R2LR
Receive Beam Frequency	29500.0 MHz -30000.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	RHCP
Peak Gain	42.0 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	15.0 dB/K
Min. Saturation Flux Density	-118.6 dBW/m2
Max. Saturation Flux Density	-70.6 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	XAA

Receiving Beams 8:

Question	Response
Beam ID	R2LL
Receive Beam Frequency	29500.0 MHz -30000.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	LHCP
Peak Gain	42.0 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	

Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	15.0 dB/K
Min. Saturation Flux Density	-118.6 dBW/m2
Max. Saturation Flux Density	-70.6 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	XAA

Receiving Beams 9:

Question	Response
Beam ID	R3HR
Receive Beam Frequency	47200.0 MHz -50200.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	RHCP
Peak Gain	50.8 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	23.8 dB/K
Min. Saturation Flux Density	-115.2 dBW/m2
Max. Saturation Flux Density	-67.2 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	XAA

Receiving Beams 10:

Question	Response
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Beam ID	R3HL
Receive Beam Frequency	47200.0 MHz -50200.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	LHCP
Peak Gain	50.8 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	23.8 dB/K
Min. Saturation Flux Density	-115.2 dBW/m2
Max. Saturation Flux Density	-67.2 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	XAA

Receiving Beams 11:

Question	Response
Beam ID	R3LR
Receive Beam Frequency	47200.0 MHz -50200.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	RHCP
Peak Gain	46.5 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	

Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	19.5 dB/K
Min. Saturation Flux Density	-110.8 dBW/m2
Max. Saturation Flux Density	-62.8 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	XAA

Receiving Beams 12:

Question	Response
Beam ID	R3LL
Receive Beam Frequency	47200.0 MHz -50200.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	LHCP
Peak Gain	46.5 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	19.5 dB/K
Min. Saturation Flux Density	-110.8 dBW/m2
Max. Saturation Flux Density	-62.8 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	XAA

Receiving Beams 13:

Question	Response
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Beam ID	R4HR
Receive Beam Frequency	50400.0 MHz -51400.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	RHCP
Peak Gain	51.0 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	24.0 dB/K
Min. Saturation Flux Density	-120.0 dBW/m ²
Max. Saturation Flux Density	-72.0 dBW/m ²
Co- or Cross Polar Mode	C
Service Area Description	XAA

Receiving Beams 14:

Question	Response
Beam ID	R4HL
Receive Beam Frequency	50400.0 MHz -51400.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	LHCP
Peak Gain	51.0 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	

Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	24.0 dB/K
Min. Saturation Flux Density	-120.0 dBW/m2
Max. Saturation Flux Density	-72.0 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	XAA

Receiving Beams 15:

Question	Response
Beam ID	R4LR
Receive Beam Frequency	50400.0 MHz -51400.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	RHCP
Peak Gain	46.7 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	19.7 dB/K
Min. Saturation Flux Density	-115.6 dBW/m2
Max. Saturation Flux Density	-67.6 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	XAA

Receiving Beams 16:

Question	Response
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Beam ID	R4LL
Receive Beam Frequency	50400.0 MHz -51400.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	LHCP
Peak Gain	46.7 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
G/T at Max. Gain Point	19.7 dB/K
Min. Saturation Flux Density	-115.6 dBW/m2
Max. Saturation Flux Density	-67.6 dBW/m2
Co- or Cross Polar Mode	C
Service Area Description	XAA

Receiving Channels (4)

Channel ID	Channel Bandwidth (MHz)	Center Frequency s (MHz)	Feeder Link, Service Link or TT&C
RV01	3000.0	48700.0	Service Link
RK02	500.0	29750.0	Service Link
RK01	1600.0	28300.0	Service Link
RV02	1000.0	50900.0	Service Link

Transmitting Beams 1:

Question	Response
Beam ID	T1HR
Transmit Beam Frequency	17800.0 MHz -18600.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	RHCP
Peak Gain	45.8 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-31.7 dBW/Hz
Max. Transmit EIRP	57.3 dBW
Co- or Cross Polar Mode	C
Service Area Description	XAA

Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m ²	(dBW/m ²	(dBW/m ²	(dBW/m ²	(dBW/m ²	(dBW/m ²
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
1.0 MHz	-125.0	-125.0	-120.0	-115.0	-110.0	-105.0

Transmitting Beams 2:

Question	Response
Beam ID	T1HL
Transmit Beam Frequency	17800.0 MHz -18600.0 MHz

Beam Type	Both Steerable and Shapeable
Polarization	LHCP
Peak Gain	45.8 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-31.7 dBW/Hz
Max. Transmit EIRP	57.3 dBW
Co- or Cross Polar Mode	C
Service Area Description	XAA

Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m ²	(dBW/m ²	(dBW/m ²	(dBW/m ²	(dBW/m ²	(dBW/m ²
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
1.0 MHz	-125.0	-125.0	-120.0	-115.0	-110.0	-105.0

Transmitting Beams 3:

Question	Response
Beam ID	T1LR
Transmit Beam Frequency	17800.0 MHz -18600.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	RHCP
Peak Gain	41.4 dBi
Antenna Pointing Error	0.1 degrees

Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-31.7 dBW/Hz
Max. Transmit EIRP	57.3 dBW
Co- or Cross Polar Mode	C
Service Area Description	XAA

Max. Power Flux Density

	* 0° - 5° (dBW/m ²) /BW:	* 5° - 10° (dBW/m ²) /BW:	* 10° - 15° (dBW/m ²) /BW:	* 15° - 20° (dBW/m ²) /BW:	* 20° - 25° (dBW/m ²) /BW:	* 25° - 90° (dBW/m ²) /BW:
1.0 MHz	-125.0	-125.0	-120.0	-115.0	-110.0	-105.0

Transmitting Beams 4:

Question	Response
Beam ID	T1LL
Transmit Beam Frequency	17800.0 MHz -18600.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	LHCP
Peak Gain	41.4 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-31.7 dBW/Hz

Max. Transmit EIRP	57.3 dBW
Co- or Cross Polar Mode	C
Service Area Description	XAA

Max. Power Flux Density

	* 0° - 5° (dBW/m ²) /BW:	* 5° - 10° (dBW/m ²) /BW:	* 10° - 15° (dBW/m ²) /BW:	* 15° - 20° (dBW/m ²) /BW:	* 20° - 25° (dBW/m ²) /BW:	* 25° - 90° (dBW/m ²) /BW:
1.0 MHz	-125.0	-125.0	-120.0	-115.0	-110.0	-105.0

Transmitting Beams 5:

Question	Response
Beam ID	T2HR
Transmit Beam Frequency	18800.0 MHz -19300.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	RHCP
Peak Gain	46.1 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-31.7 dBW/Hz
Max. Transmit EIRP	55.3 dBW
Co- or Cross Polar Mode	C
Service Area Description	XAA

Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
1.0 MHz	-125.0	-125.0	-120.0	-115.0	-110.0	-105.0

Transmitting Beams 6:

Question	Response
Beam ID	T2HL
Transmit Beam Frequency	18800.0 MHz -19300.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	RHCP
Peak Gain	46.1 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-31.7 dBW/Hz
Max. Transmit EIRP	55.3 dBW
Co- or Cross Polar Mode	C
Service Area Description	XAA

Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
1.0 MHz	-125.0	-125.0	-120.0	-115.0	-110.0	-105.0

Transmitting Beams 7:

Question	Response
Beam ID	T2LR
Transmit Beam Frequency	18800.0 MHz -19300.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	LHCP
Peak Gain	41.7 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-31.7 dBW/Hz
Max. Transmit EIRP	55.3 dBW
Co- or Cross Polar Mode	C
Service Area Description	XAA

Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
	(dBW/m ²	(dBW/m ²	(dBW/m ²	(dBW/m ²	(dBW/m ²	(dBW/m ²
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
1.0 MHz	-125.0	-125.0	-120.0	-115.0	-110.0	-105.0

Transmitting Beams 8:

Question	Response
Beam ID	T2LL
Transmit Beam Frequency	18800.0 MHz -19300.0 MHz

Beam Type	Both Steerable and Shapeable
Polarization	LHCP
Peak Gain	41.7 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-31.7 dBW/Hz
Max. Transmit EIRP	55.3 dBW
Co- or Cross Polar Mode	C
Service Area Description	XAA

Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m ²	(dBW/m ²	(dBW/m ²	(dBW/m ²	(dBW/m ²	(dBW/m ²
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
1.0 MHz	-125.0	-125.0	-120.0	-115.0	-110.0	-105.0

Transmitting Beams 9:

Question	Response
Beam ID	T3HR
Transmit Beam Frequency	19700.0 MHz -20200.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	RHCP
Peak Gain	46.1 dBi
Antenna Pointing Error	0.1 degrees

Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-31.7 dBW/Hz
Max. Transmit EIRP	55.3 dBW
Co- or Cross Polar Mode	C
Service Area Description	XAA

Max. Power Flux Density

	* 0° - 5° (dBW/m ²) /BW:	* 5° - 10° (dBW/m ²) /BW:	* 10° - 15° (dBW/m ²) /BW:	* 15° - 20° (dBW/m ²) /BW:	* 20° - 25° (dBW/m ²) /BW:	* 25° - 90° (dBW/m ²) /BW:
1.0 MHz	-125.0	-125.0	-120.0	-115.0	-110.0	-105.0

Transmitting Beams 10:

Question	Response
Beam ID	T3HL
Transmit Beam Frequency	19700.0 MHz -20200.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	LHCP
Peak Gain	46.5 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-31.7 dBW/Hz

Max. Transmit EIRP	55.3 dBW
Co- or Cross Polar Mode	C
Service Area Description	XAA

Max. Power Flux Density

	* 0° - 5° (dBW/m ²) /BW:	* 5° - 10° (dBW/m ²) /BW:	* 10° - 15° (dBW/m ²) /BW:	* 15° - 20° (dBW/m ²) /BW:	* 20° - 25° (dBW/m ²) /BW:	* 25° - 90° (dBW/m ²) /BW:
1.0 MHz	-125.0	-125.0	-120.0	-115.0	-110.0	-105.0

Transmitting Beams 11:

Question	Response
Beam ID	T3LR
Transmit Beam Frequency	19700.0 MHz -20200.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	RHCP
Peak Gain	42.1 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-31.7 dBW/Hz
Max. Transmit EIRP	55.3 dBW
Co- or Cross Polar Mode	C
Service Area Description	XAA

Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
1.0 MHz	-125.0	-125.0	-120.0	-115.0	-110.0	-105.0

Transmitting Beams 12:

Question	Response
Beam ID	T3LL
Transmit Beam Frequency	19700.0 MHz -20200.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	LHCP
Peak Gain	42.1 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-31.7 dBW/Hz
Max. Transmit EIRP	55.3 dBW
Co- or Cross Polar Mode	C
Service Area Description	XAA

Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
1.0 MHz	-125.0	-125.0	-120.0	-115.0	-110.0	-105.0

Transmitting Beams 13:

Question	Response
Beam ID	T4HR
Transmit Beam Frequency	37500.0 MHz -40000.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	RHCP
Peak Gain	52.4 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-43.7 dBW/Hz
Max. Transmit EIRP	50.3 dBW
Co- or Cross Polar Mode	C
Service Area Description	XAA

Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
	(dBW/m ²	(dBW/m ²	(dBW/m ²	(dBW/m ²	(dBW/m ²	(dBW/m ²
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
1.0 MHz	-132.0	-132.0	-128.3	-124.5	-120.8	-117.0

Transmitting Beams 14:

Question	Response
Beam ID	T4HL
Transmit Beam Frequency	37500.0 MHz -40000.0 MHz

Beam Type	Both Steerable and Shapeable
Polarization	LHCP
Peak Gain	52.4 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-43.7 dBW/Hz
Max. Transmit EIRP	50.3 dBW
Co- or Cross Polar Mode	C
Service Area Description	XAA

Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m ²	(dBW/m ²	(dBW/m ²	(dBW/m ²	(dBW/m ²	(dBW/m ²
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
1.0 MHz	-132.0	-132.0	-128.3	-124.5	-120.8	-117.0

Transmitting Beams 15:

Question	Response
Beam ID	T4LR
Transmit Beam Frequency	37500.0 MHz -40000.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	RHCP
Peak Gain	48.0 dBi
Antenna Pointing Error	0.1 degrees

Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-43.7 dBW/Hz
Max. Transmit EIRP	50.3 dBW
Co- or Cross Polar Mode	C
Service Area Description	XAA

Max. Power Flux Density

	* 0° - 5° (dBW/m ²) /BW:	* 5° - 10° (dBW/m ²) /BW:	* 10° - 15° (dBW/m ²) /BW:	* 15° - 20° (dBW/m ²) /BW:	* 20° - 25° (dBW/m ²) /BW:	* 25° - 90° (dBW/m ²) /BW:
1.0 MHz	-132.0	-132.0	-128.3	-124.5	-120.8	-117.0

Transmitting Beams 16:

Question	Response
Beam ID	T4LL
Transmit Beam Frequency	37500.0 MHz -40000.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	LHCP
Peak Gain	48.0 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-43.7 dBW/Hz

Max. Transmit EIRP	50.3 dBW
Co- or Cross Polar Mode	C
Service Area Description	XAA

Max. Power Flux Density

	* 0° - 5° (dBW/m ²)	* 5° - 10° (dBW/m ²)	* 10° - 15° (dBW/m ²)	* 15° - 20° (dBW/m ²)	* 20° - 25° (dBW/m ²)	* 25° - 90° (dBW/m ²)
* BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
1.0 MHz	-132.0	-132.0	-128.3	-124.5	-120.8	-117.0

Transmitting Beams 17:

Question	Response
Beam ID	T5HR
Transmit Beam Frequency	40000.0 MHz -42000.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	RHCP
Peak Gain	52.9 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-31.7 dBW/Hz
Max. Transmit EIRP	61.3 dBW
Co- or Cross Polar Mode	C
Service Area Description	XAA

Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
1.0 MHz	-125.0	-125.0	-120.0	-115.0	-110.0	-105.0

Transmitting Beams 18:

Question	Response
Beam ID	T5HL
Transmit Beam Frequency	40000.0 MHz -42000.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	LHCP
Peak Gain	52.9 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-31.7 dBW/Hz
Max. Transmit EIRP	61.3 dBW
Co- or Cross Polar Mode	C
Service Area Description	XAA

Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)	(dBW/m ²)
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
1.0 MHz	-125.0	-125.0	-120.0	-115.0	-110.0	-105.0

Transmitting Beams 19:

Question	Response
Beam ID	T5LR
Transmit Beam Frequency	40000.0 MHz -42000.0 MHz
Beam Type	Both Steerable and Shapeable
Polarization	RHCP
Peak Gain	48.4 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-31.7 dBW/Hz
Max. Transmit EIRP	61.3 dBW
Co- or Cross Polar Mode	C
Service Area Description	XAA

Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
	(dBW/m ²	(dBW/m ²	(dBW/m ²	(dBW/m ²	(dBW/m ²	(dBW/m ²
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
1.0 MHz	-125.0	-125.0	-120.0	-115.0	-110.0	-105.0

Transmitting Beams 20:

Question	Response
Beam ID	T5LL
Transmit Beam Frequency	40000.0 MHz -42000.0 MHz

Beam Type	Both Steerable and Shapeable
Polarization	LHCP
Peak Gain	48.4 dBi
Antenna Pointing Error	0.1 degrees
Antenna Rotational Error	0.1 degrees
Polarization Switchable	
Polarization Alignment Relative to the Equatorial Plane	45.0 degrees
Max. Transmit EIRP Density	-31.7 dBW/Hz
Max. Transmit EIRP	61.3 dBW
Co- or Cross Polar Mode	C
Service Area Description	XAA

Max. Power Flux Density

	* 0° - 5°	* 5° - 10°	* 10° - 15°	* 15° - 20°	* 20° - 25°	* 25° - 90°
*	(dBW/m ²	(dBW/m ²	(dBW/m ²	(dBW/m ²	(dBW/m ²	(dBW/m ²
BW:	/BW):	/BW):	/BW):	/BW):	/BW):	/BW):
1.0 MHz	-125.0	-125.0	-120.0	-115.0	-110.0	-105.0

Transmitting Channels (5)

Channel ID	Channel Bandwidth (MHz)	Center Frequency s (MHz)	Feeder Link, Service Link or TT&C
Tv02	2000.0	41000.0	Feeder Link
TK01	800.0	18200.0	Service Link
TK02	500.0	19050.0	Service Link
TK03	500.0	19950.0	Service Link
TV01	2500.0	38750.0	Service Link

Certification Questions

Question	Response
Are the applicable service area coverage requirements of 25.143(b)(2) (ii) and (iii), or 25.144(a)(3)(i), or 25.145 (c)(1) and (2), or 25.146(i)(1) and (2), or 25.148(c), or 25.225 met?	No
Are the applicable frequency tolerances of 25.202(e) and out-of-band emission limits of 25.202(f)(1),(2), and (3) met?	Yes
Are the cessation of emissions requirements of 25.207 met?	Yes
Are the applicable power-flux-density limits of 25.208 met, and is the appropriate technical showing provided within the application?	Yes
For NGSO applications, are the applicable equivalent-power-flux-density limits of 25.208 met, and is the appropriate technical showing provided within the application?	Yes
Are the applicable full-frequency-reuse requirements of 25.210 met?	Yes
If the application is for a 17/24 GHz BSS space station, will it be operated at an offset location with full power and interference protection in accordance with 25.262(b)?	

Attachments

File Name	Beam	Field	Attachment Type	Description
<u>R1HL R EOC.gxt</u>	R1HL	NGSO Antenna Gain Data	GXT file (*.gxt)	
<u>R1HL R Nadir.gxt</u>	R1HL	NGSO Antenna Gain Data	GXT file (*.gxt)	
<u>R1LL R Nadir.gxt</u>	R1LL	NGSO Antenna Gain Data	GXT file (*.gxt)	
<u>R1LL R EOC.gxt</u>	R1LL	NGSO Antenna Gain Data	GXT file (*.gxt)	
<u>R2HL R Nadir.gxt</u>	R2HL	NGSO Antenna Gain Data	GXT file (*.gxt)	
<u>R2HL R EOC.gxt</u>	R2HL	NGSO Antenna Gain Data	GXT file (*.gxt)	
<u>R2LL R Nadir.gxt</u>	R2LL	NGSO Antenna Gain Data	GXT file (*.gxt)	
<u>R2LL R EOC.gxt</u>	R2LL	NGSO Antenna Gain Data	GXT file (*.gxt)	
<u>R3HL R Nadir.gxt</u>	R3HL	NGSO Antenna Gain Data	GXT file (*.gxt)	
<u>R3HL R EOC.gxt</u>	R3HL	NGSO Antenna Gain Data	GXT file (*.gxt)	
<u>R3LL R Nadir.gxt</u>	R3LL	NGSO Antenna Gain Data	GXT file (*.gxt)	
<u>R3LL R EOC.gxt</u>	R3LL	NGSO Antenna Gain Data	GXT file (*.gxt)	
<u>R4HL R Nadir.gxt</u>	R4HL	NGSO Antenna Gain Data	GXT file (*.gxt)	
<u>R4HL R EOC.gxt</u>	R4HL	NGSO Antenna Gain Data	GXT file (*.gxt)	
<u>R4LL R Nadir.gxt</u>	R4LL	NGSO Antenna Gain Data	GXT file (*.gxt)	
<u>R4LL R EOC.gxt</u>	R4LL	NGSO Antenna Gain Data	GXT file (*.gxt)	

<u>T1HL E Nadir.</u> <u>gxt</u>	T1HL	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T1HL E EOC.</u> <u>gxt</u>	T1HL	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T1LL E Nadir.</u> <u>gxt</u>	T1LL	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T1LL E EOC.</u> <u>gxt</u>	T1LL	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T3HL E Nadir.</u> <u>gxt</u>	T3HL	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T2HL E Nadir.</u> <u>gxt</u>	T2HL	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T2HL E EOC.</u> <u>gxt</u>	T2HL	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T2LL E Nadir.</u> <u>gxt</u>	T2LL	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T2LL E EOC.</u> <u>gxt</u>	T2LL	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T3HL E EOC.</u> <u>gxt</u>	T3HL	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T3LL E Nadir.</u> <u>gxt</u>	T3LL	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T3LL E Nadir.</u> <u>gxt</u>	T3LL	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T4HL E Nadir.</u> <u>gxt</u>	T4HL	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T4HL E EOC.</u> <u>gxt</u>	T4HL	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T4LL E Nadir.</u> <u>gxt</u>	T4LL	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T4LL E EOC.</u> <u>gxt</u>	T4LL	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T5HL E Nadir.</u> <u>gxt</u>	T5HL	NGSO Antenna Gain Data	GXT file (*.gxt)

<u>T5HL E EOC.</u> <u>gxt</u>	T5HL	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T5LL E Nadir.</u> <u>gxt</u>	T5LL	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T5LL E EOC.</u> <u>gxt</u>	T5LL	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>R1HR R Nadir.</u> <u>gxt</u>	R1HR	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>R1LR R Nadir.</u> <u>gxt</u>	R1LR	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>R1LR R EOC.</u> <u>gxt</u>	R1LR	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>R2HR R Nadir.</u> <u>gxt</u>	R2HR	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T4HR E EOC.</u> <u>gxt</u>	T4HR	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T4LR E Nadir.</u> <u>gxt</u>	T4LR	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>R1HR R EOC.</u> <u>gxt</u>	R1HR	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>R2HR R EOC.</u> <u>gxt</u>	R2HR	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>R2LR R Nadir.</u> <u>gxt</u>	R2LR	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>R2LR R EOC.</u> <u>gxt</u>	R2LR	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>R3HR R Nadir.</u> <u>gxt</u>	R3HR	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>R3HR R EOC.</u> <u>gxt</u>	R3HR	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>R3LR R Nadir.</u> <u>gxt</u>	R3LR	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>R3LR R EOC.</u> <u>gxt</u>	R3LR	NGSO Antenna Gain Data	GXT file (*.gxt)

<u>R4HR R Nadir.</u> <u>gxt</u>	R4HR	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>R4HR R EOC.</u> <u>gxt</u>	R4HR	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>R4LR R Nadir.</u> <u>gxt</u>	R4LR	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>R4LR R EOC.</u> <u>gxt</u>	R4LR	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T1HR E Nadir.</u> <u>gxt</u>	T1HR	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T1HR E EOC.</u> <u>gxt</u>	T1HR	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T1LR E Nadir.</u> <u>gxt</u>	T1LR	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T1LR E EOC.</u> <u>gxt</u>	T1LR	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T2HR E Nadir.</u> <u>gxt</u>	T2HR	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T2HR E EOC.</u> <u>gxt</u>	T2HR	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T2LR E Nadir.</u> <u>gxt</u>	T2LR	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T2LR E EOC.</u> <u>gxt</u>	T2LR	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T3HR E Nadir.</u> <u>gxt</u>	T3HR	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T3HR E EOC.</u> <u>gxt</u>	T3HR	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T3LR E Nadir.</u> <u>gxt</u>	T3LR	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T3LR E EOC.</u> <u>gxt</u>	T3LR	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T4HR E Nadir.</u> <u>gxt</u>	T4HR	NGSO Antenna Gain Data	GXT file (*.gxt)

<u>T4LR E EOC.</u> <u>gxt</u>	T4LR	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T5HR E Nadir.</u> <u>gxt</u>	T5HR	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T5HR E EOC.</u> <u>gxt</u>	T5HR	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T5LR E Nadir.</u> <u>gxt</u>	T5LR	NGSO Antenna Gain Data	GXT file (*.gxt)
<u>T5LR E EOC.</u> <u>gxt</u>	T5LR	NGSO Antenna Gain Data	GXT file (*.gxt)
