

File Number: **DRAFT-SAT-MOD-20260703-00275**

Call Sign: **S3069/2992**

S1. Satellite Information

a. Space Station or Satellite Network Name	b. Orbit Type	c. Estimated Operational Lifetime of Space Station(s) From Date of Launch (yrs)	d. Will the space station(s) operate on a Common Carrier basis?	e. Application Description
SpaceX Gen2	Non-Geostationary (NGSO)	5	No	SpaceX seeks to operate its Gen2 system in the 12.7-13.25 and 42.0-42.5 GHz bands.

S2. Operating Frequency Bands

a. Type of Service	b. If a. is Other, provide a service description	c. Satellite Frequency Band (MHz)	d. Satellite Frequency (Lower Band Edge) (MHz)	e. Satellite Frequency (Upper Band Edge) (MHz)	f. Direction of Transmission	g. Non Conforming Indicator
FSS		12700 - 13250	12700	13250	Space-to-Earth (Transmit)	No
FSS		42000 - 42500	42000	42500	Space-to-Earth (Transmit)	No

S3. NGSO Orbital Information

a. Total Number of Simultaneously Operating Satellites in Constellation	b. Total Number of Satellites Deployed During the License Term	c. Orbit Epoch Date	d. Celestial Reference Body	e. If d. is "Other", provide the name of celestial body being referenced	f. Total Number of Orbital Planes
0	0	2023-01-01	Earth		0

g. Orbital Plane Information

h. Initial Phase Angle Information

S4. Earth-to-Space (Receive) Beams

S5. Space-to-Earth (Transmit) Beams

a. Beam ID:	TX001	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	12700	o. Peak Isotropic Antenna Gain (dBi):	34.9
c. Beam Frequency (Upper Band Edge) (MHz):	13250	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.1
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	Yes	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	

i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:											
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-47.9	w. What information will be provided with the predicted antenna gain contours?:											
k. Maximum Transmit EIRP (dBW):	39.5												
y. Max. Power-Flux Densities													
Angles of Arrival PFD													
Geographic Region PFD													
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		4 kHz	-159.2	-155.2	-145.1	-142.6	-140.1	-140.1					

a. Beam ID:	TX301	n. Beam Peak Flux Density at Command Threshold (dBW/m²):											
b. Beam Frequency (Lower Band Edge) (MHz):	12700	o. Peak Isotropic Antenna Gain (dBi):	34.9										
c. Beam Frequency (Upper Band Edge) (MHz):	13250	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):											
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.1										
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.1										
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:											
g. Is the beam shapeable? (Check box if Yes):	Yes	t. Under what rules will the associated antenna contours be submitted?:											
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:											
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:											
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-43.3	w. What information will be provided with the predicted antenna gain contours?:											
k. Maximum Transmit EIRP (dBW):	44.1												
y. Max. Power-Flux Densities													
Angles of Arrival PFD			Geographic Region PFD										
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		4 kHz	-150.1	-147.6	-145.1	-142.6	-140.1	-140.1					

a. Beam ID:	TX303	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	12700	o. Peak Isotropic Antenna Gain (dBi):	48.9
c. Beam Frequency (Upper Band Edge) (MHz):	13250	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.1
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	Yes	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-43.3	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	44.1		
y. Max. Power-Flux Densities			
Angles of Arrival PFD			Geographic Region PFD
(i) Beam Sub-Frequency	(ii) Beam Sub-Frequency	(iii) Reference Bandwidth	(iv) 0-2° (dBW/m²/BW)
			(v) 2-5° (dBW/m²/BW)
			(vi) 5-15° (dBW/m²/BW)
			(vii) 15-20° (dBW/m²/BW)
			(viii) 20-25° (dBW/m²/BW)
			(ix) 25-90° (dBW/m²/BW)
			(x) Southeastern
			(xi) Northeastern
			(xii) Western Region
			(xiii) Other Region
			(xiv) Energy Dispersal

(Lower Band Edge) (MHz)	(Upper Band Edge) (MHz)	(BW)							Region (dBW/m ² /BW)	Region (dBW/m ² /BW)	(dBW/m ² /BW)	(dBW/m ² /BW)	Bandwidth (kHz)
		4 kHz	-150.1	-147.6	-145.1	-142.6	-140.1	-140.1					

a. Beam ID:	TX305	n. Beam Peak Flux Density at Command Threshold (dBW/m ²):	
b. Beam Frequency (Lower Band Edge) (MHz):	42000	o. Peak Isotropic Antenna Gain (dBi):	41.8
c. Beam Frequency (Upper Band Edge) (MHz):	42500	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.1
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-32.3	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	54.7		

y. Max. Power-Flux Densities													
			Angles of Arrival PFD						Geographic Region PFD				
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m ² /BW)	(v) 2-5° (dBW/m ² /BW)	(vi) 5-15° (dBW/m ² /BW)	(vii) 15-20° (dBW/m ² /BW)	(viii) 20-25° (dBW/m ² /BW)	(ix) 25-90° (dBW/m ² /BW)	(x) Southeastern Region (dBW/m ² /BW)	(xi) Northeastern Region (dBW/m ² /BW)	(xii) Western Region (dBW/m ² /BW)	(xiii) Other Region (dBW/m ² /BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		1 MHz	-142.9	-141.4	-133.3	-125.2	-105.1	-105.1					

a. Beam ID:	TX307	n. Beam Peak Flux Density at Command Threshold (dBW/m ²):	
b. Beam Frequency (Lower Band Edge) (MHz):	42000	o. Peak Isotropic Antenna Gain (dBi):	55.3
c. Beam Frequency (Upper Band Edge) (MHz):	42500	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.1
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-32.3	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	54.7		

y. Max. Power-Flux Densities													
			Angles of Arrival PFD						Geographic Region PFD				
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m ² /BW)	(v) 2-5° (dBW/m ² /BW)	(vi) 5-15° (dBW/m ² /BW)	(vii) 15-20° (dBW/m ² /BW)	(viii) 20-25° (dBW/m ² /BW)	(ix) 25-90° (dBW/m ² /BW)	(x) Southeastern Region (dBW/m ² /BW)	(xi) Northeastern Region (dBW/m ² /BW)	(xii) Western Region (dBW/m ² /BW)	(xiii) Other Region (dBW/m ² /BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		1 MHz	-159.7	-158.3	-150.2	-142.1	-105.1	-105.1					

a. Beam ID:	TX309	n. Beam Peak Flux Density at Command Threshold (dBW/m ²):	
b. Beam Frequency (Lower Band Edge) (MHz):	42000	o. Peak Isotropic Antenna Gain (dBi):	41.8
c. Beam Frequency (Upper Band Edge) (MHz):	42500	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	

d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.1
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	Yes	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-32.3	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	54.7		

y. Max. Power-Flux Densities														
			Angles of Arrival PFD						Geographic Region PFD					
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)	
		1 MHz	-142.9	-141.4	-133.3	-125.2	-105.1	-105.1						

a. Beam ID:	TX311	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	42000	o. Peak Isotropic Antenna Gain (dBi):	55.3
c. Beam Frequency (Upper Band Edge) (MHz):	42500	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.1
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	Yes	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-32.3	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	54.7		

y. Max. Power-Flux Densities														
			Angles of Arrival PFD						Geographic Region PFD					
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)	
		1 MHz	-159.7	-158.3	-150.2	-142.1	-105.1	-105.1						

a. Beam ID:	TX102	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	12700	o. Peak Isotropic Antenna Gain (dBi):	34.9
c. Beam Frequency (Upper Band Edge) (MHz):	13250	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.1
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	Yes	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-45.3	w. What information will be provided with the predicted antenna gain contours?:	

k. Maximum Transmit EIRP (dBW):													42.1	
y. Max. Power-Flux Densities														
			Angles of Arrival PFD						Geographic Region PFD					
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)	
		4 kHz	-166.2	-161.6	-153.7	-142.6	-140.1	-140.1						

a. Beam ID:	TX104	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	12700	o. Peak Isotropic Antenna Gain (dBi):	48.9
c. Beam Frequency (Upper Band Edge) (MHz):	13250	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.1
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	Yes	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-45.3	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	42.1		

y. Max. Power-Flux Densities														
			Angles of Arrival PFD							Geographic Region PFD				
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)	
		4 kHz	-185.5	-183.7	-171.2	-142.6	-140.1	-140.1						

a. Beam ID:	TX106	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	42000	o. Peak Isotropic Antenna Gain (dBi):	41.8
c. Beam Frequency (Upper Band Edge) (MHz):	42500	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.1
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-34.2	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	52.8		

y. Max. Power-Flux Densities														
			Angles of Arrival PFD							Geographic Region PFD				
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)	

		1 MHz	-135.3	-131.2	-112.6	-108.9	-105.1	-105.1					
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a. Beam ID:	TX302	n. Beam Peak Flux Density at Command Threshold (dBW/m ²):	
b. Beam Frequency (Lower Band Edge) (MHz):	12700	o. Peak Isotropic Antenna Gain (dBi):	34.9
c. Beam Frequency (Upper Band Edge) (MHz):	13250	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.1
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	Yes	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-43.3	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	44.1		

y. Max. Power-Flux Densities													
			Angles of Arrival PFD						Geographic Region PFD				
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m ² /BW)	(v) 2-5° (dBW/m ² /BW)	(vi) 5-15° (dBW/m ² /BW)	(vii) 15-20° (dBW/m ² /BW)	(viii) 20-25° (dBW/m ² /BW)	(ix) 25-90° (dBW/m ² /BW)	(x) Southeastern Region (dBW/m ² /BW)	(xi) Northeastern Region (dBW/m ² /BW)	(xii) Western Region (dBW/m ² /BW)	(xiii) Other Region (dBW/m ² /BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		4 kHz	-150.1	-147.6	-145.1	-142.6	-140.1	-140.1					

a. Beam ID:	TX108	n. Beam Peak Flux Density at Command Threshold (dBW/m ²):	
b. Beam Frequency (Lower Band Edge) (MHz):	42000	o. Peak Isotropic Antenna Gain (dBi):	55.3
c. Beam Frequency (Upper Band Edge) (MHz):	42500	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.1
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-34.2	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	52.8		

y. Max. Power-Flux Densities													
			Angles of Arrival PFD						Geographic Region PFD				
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m ² /BW)	(v) 2-5° (dBW/m ² /BW)	(vi) 5-15° (dBW/m ² /BW)	(vii) 15-20° (dBW/m ² /BW)	(viii) 20-25° (dBW/m ² /BW)	(ix) 25-90° (dBW/m ² /BW)	(x) Southeastern Region (dBW/m ² /BW)	(xi) Northeastern Region (dBW/m ² /BW)	(xii) Western Region (dBW/m ² /BW)	(xiii) Other Region (dBW/m ² /BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		1 MHz	-152.2	-148	-112.6	-108.9	-105.1	-105.1					

a. Beam ID:	TX110	n. Beam Peak Flux Density at Command Threshold (dBW/m ²):	
b. Beam Frequency (Lower Band Edge) (MHz):	42000	o. Peak Isotropic Antenna Gain (dBi):	41.8
c. Beam Frequency (Upper Band Edge) (MHz):	42500	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.1

f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:
g. Is the beam shapeable? (Check box if Yes):	Yes	t. Under what rules will the associated antenna contours be submitted?:
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-34.2	w. What information will be provided with the predicted antenna gain contours?:
k. Maximum Transmit EIRP (dBW):	52.8	

y. Max. Power-Flux Densities														
			Angles of Arrival PFD						Geographic Region PFD					
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)	
		1 MHz	-135.3	-131.2	-112.6	-108.9	-105.1	-105.1						

a. Beam ID:	TX112	n. Beam Peak Flux Density at Command Threshold (dBW/m²):
b. Beam Frequency (Lower Band Edge) (MHz):	42000	o. Peak Isotropic Antenna Gain (dBi): 55.3
c. Beam Frequency (Upper Band Edge) (MHz):	42500	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):
d. Polarization:	LHCP	q. Antenna Pointing Error (°): 0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°): 0.1
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:
g. Is the beam shapeable? (Check box if Yes):	Yes	t. Under what rules will the associated antenna contours be submitted?:
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-34.2	w. What information will be provided with the predicted antenna gain contours?:
k. Maximum Transmit EIRP (dBW):	52.8	

y. Max. Power-Flux Densities														
			Angles of Arrival PFD						Geographic Region PFD					
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)	
		1 MHz	-152.2	-148	-112.6	-108.9	-105.1	-105.1						

a. Beam ID:	TX304	n. Beam Peak Flux Density at Command Threshold (dBW/m²):
b. Beam Frequency (Lower Band Edge) (MHz):	12700	o. Peak Isotropic Antenna Gain (dBi): 48.9
c. Beam Frequency (Upper Band Edge) (MHz):	13250	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):
d. Polarization:	LHCP	q. Antenna Pointing Error (°): 0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°): 0.1
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:
g. Is the beam shapeable? (Check box if Yes):	Yes	t. Under what rules will the associated antenna contours be submitted?:
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-43.3	w. What information will be provided with the predicted antenna gain contours?:
k. Maximum Transmit EIRP (dBW):	44.1	

y. Max. Power-Flux Densities													
			Angles of Arrival PFD						Geographic Region PFD				
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		4 kHz	-150.1	-147.6	-145.1	-142.6	-140.1	-140.1					

a. Beam ID:	TX306	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	42000	o. Peak Isotropic Antenna Gain (dBi):	41.8
c. Beam Frequency (Upper Band Edge) (MHz):	42500	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.1
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-32.3	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	54.7		

y. Max. Power-Flux Densities													
			Angles of Arrival PFD						Geographic Region PFD				
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		1 MHz	-142.9	-141.4	-133.3	-125.2	-105.1	-105.1					

a. Beam ID:	TX308	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	42000	o. Peak Isotropic Antenna Gain (dBi):	55.3
c. Beam Frequency (Upper Band Edge) (MHz):	42500	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.1
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-32.3	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	54.7		

y. Max. Power-Flux Densities													
			Angles of Arrival PFD						Geographic Region PFD				
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		1 MHz	-159.7	-158.3	-150.2	-142.1	-105.1	-105.1					

a. Beam ID:	TX310	n. Beam Peak Flux Density at Command Threshold (dBW/m ²):	
b. Beam Frequency (Lower Band Edge) (MHz):	42000	o. Peak Isotropic Antenna Gain (dBi):	41.8
c. Beam Frequency (Upper Band Edge) (MHz):	42500	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.1
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	Yes	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-32.3	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	54.7		

y. Max. Power-Flux Densities													
			Angles of Arrival PFD						Geographic Region PFD				
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m ² /BW)	(v) 2-5° (dBW/m ² /BW)	(vi) 5-15° (dBW/m ² /BW)	(vii) 15-20° (dBW/m ² /BW)	(viii) 20-25° (dBW/m ² /BW)	(ix) 25-90° (dBW/m ² /BW)	(x) Southeastern Region (dBW/m ² /BW)	(xi) Northeastern Region (dBW/m ² /BW)	(xii) Western Region (dBW/m ² /BW)	(xiii) Other Region (dBW/m ² /BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		1 MHz	-142.9	-141.4	-133.3	-125.2	-105.1	-105.1					

a. Beam ID:	TX312	n. Beam Peak Flux Density at Command Threshold (dBW/m ²):	
b. Beam Frequency (Lower Band Edge) (MHz):	42000	o. Peak Isotropic Antenna Gain (dBi):	55.3
c. Beam Frequency (Upper Band Edge) (MHz):	42500	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.1
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	Yes	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-32.3	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	54.7		

y. Max. Power-Flux Densities													
			Angles of Arrival PFD						Geographic Region PFD				
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m ² /BW)	(v) 2-5° (dBW/m ² /BW)	(vi) 5-15° (dBW/m ² /BW)	(vii) 15-20° (dBW/m ² /BW)	(viii) 20-25° (dBW/m ² /BW)	(ix) 25-90° (dBW/m ² /BW)	(x) Southeastern Region (dBW/m ² /BW)	(xi) Northeastern Region (dBW/m ² /BW)	(xii) Western Region (dBW/m ² /BW)	(xiii) Other Region (dBW/m ² /BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		1 MHz	-159.7	-158.3	-150.2	-142.1	-105.1	-105.1					

a. Beam ID:	TX002	n. Beam Peak Flux Density at Command Threshold (dBW/m ²):	
b. Beam Frequency (Lower Band Edge) (MHz):	12700	o. Peak Isotropic Antenna Gain (dBi):	34.9
c. Beam Frequency (Upper Band Edge) (MHz):	13250	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.1
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	Yes	t. Under what rules will the associated antenna contours be submitted?:	

h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-47.9	w. What information will be provided with the predicted antenna gain contours?:
k. Maximum Transmit EIRP (dBW):	39.5	

y. Max. Power-Flux Densities													
			Angles of Arrival PFD						Geographic Region PFD				
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		4 kHz	-159.2	-155.2	-145.1	-142.6	-140.1	-140.1					

a. Beam ID:	TX004	n. Beam Peak Flux Density at Command Threshold (dBW/m²):
b. Beam Frequency (Lower Band Edge) (MHz):	12700	o. Peak Isotropic Antenna Gain (dBi): 48.9
c. Beam Frequency (Upper Band Edge) (MHz):	13250	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):
d. Polarization:	LHCP	q. Antenna Pointing Error (°): 0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°): 0.1
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:
g. Is the beam shapeable? (Check box if Yes):	Yes	t. Under what rules will the associated antenna contours be submitted?:
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-47.9	w. What information will be provided with the predicted antenna gain contours?:
k. Maximum Transmit EIRP (dBW):	39.5	

y. Max. Power-Flux Densities													
			Angles of Arrival PFD						Geographic Region PFD				
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		4 kHz	-175.5	-171.3	-145.1	-142.6	-140.1	-140.1					

a. Beam ID:	TX006	n. Beam Peak Flux Density at Command Threshold (dBW/m²):
b. Beam Frequency (Lower Band Edge) (MHz):	42000	o. Peak Isotropic Antenna Gain (dBi): 41.8
c. Beam Frequency (Upper Band Edge) (MHz):	42500	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):
d. Polarization:	LHCP	q. Antenna Pointing Error (°): 0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°): 0.1
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-36.9	w. What information will be provided with the predicted antenna gain contours?:
k. Maximum Transmit EIRP (dBW):	50.1	

y. Max. Power-Flux Densities													
			Angles of Arrival PFD						Geographic Region PFD				

(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		1 MHz	-135.3	-131.2	-112.6	-108.9	-105.1	-105.1					

a. Beam ID:	TX008	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	42000	o. Peak Isotropic Antenna Gain (dBi):	55.3
c. Beam Frequency (Upper Band Edge) (MHz):	42500	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.1
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-36.9	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	50.1		

y. Max. Power-Flux Densities													
			Angles of Arrival PFD						Geographic Region PFD				
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		1 MHz	-152.2	-148	-112.6	-108.9	-105.1	-105.1					

a. Beam ID:	TX010	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	42000	o. Peak Isotropic Antenna Gain (dBi):	41.8
c. Beam Frequency (Upper Band Edge) (MHz):	42500	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.1
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	Yes	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-36.9	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	50.1		

y. Max. Power-Flux Densities													
			Angles of Arrival PFD						Geographic Region PFD				
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		1 MHz	-135.3	-131.2	-112.6	-108.9	-105.1	-105.1					

a. Beam ID:	TX012	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
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b. Beam Frequency (Lower Band Edge) (MHz):	42000	o. Peak Isotropic Antenna Gain (dBi):	55.3
c. Beam Frequency (Upper Band Edge) (MHz):	42500	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	LHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.1
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	Yes	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-36.9	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	50.1		

y. Max. Power-Flux Densities														
			Angles of Arrival PFD						Geographic Region PFD					
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)	
		1 MHz	-152.2	-148	-112.6	-108.9	-105.1	-105.1						

a. Beam ID:	TX011	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	42000	o. Peak Isotropic Antenna Gain (dBi):	55.3
c. Beam Frequency (Upper Band Edge) (MHz):	42500	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.1
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	Yes	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-36.9	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	50.1		

y. Max. Power-Flux Densities														
			Angles of Arrival PFD						Geographic Region PFD					
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)	
		1 MHz	-152.2	-148	-112.6	-108.9	-105.1	-105.1						

a. Beam ID:	TX009	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	42000	o. Peak Isotropic Antenna Gain (dBi):	41.8
c. Beam Frequency (Upper Band Edge) (MHz):	42500	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.1
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	Yes	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	

i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:											
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-36.9	w. What information will be provided with the predicted antenna gain contours?:											
k. Maximum Transmit EIRP (dBW):	50.1												
y. Max. Power-Flux Densities													
Angles of Arrival PFD													
Geographic Region PFD													
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		1 MHz	-135.3	-131.2	-112.6	-108.9	-105.1	-105.1					

a. Beam ID:	TX107	n. Beam Peak Flux Density at Command Threshold (dBW/m²):											
b. Beam Frequency (Lower Band Edge) (MHz):	42000	o. Peak Isotropic Antenna Gain (dBi):	55.3										
c. Beam Frequency (Upper Band Edge) (MHz):	42500	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):											
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.1										
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.1										
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:											
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:											
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:											
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:											
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-34.2	w. What information will be provided with the predicted antenna gain contours?:											
k. Maximum Transmit EIRP (dBW):	52.8												
y. Max. Power-Flux Densities													
Angles of Arrival PFD			Geographic Region PFD										
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		1 MHz	-152.2	-148	-112.6	-108.9	-105.1	-105.1					

a. Beam ID:	TX103	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	12700	o. Peak Isotropic Antenna Gain (dBi):	48.9
c. Beam Frequency (Upper Band Edge) (MHz):	13250	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.1
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	Yes	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-45.3	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	42.1		
y. Max. Power-Flux Densities			
Angles of Arrival PFD			Geographic Region PFD
(i) Beam Sub-Frequency	(ii) Beam Sub-Frequency	(iii) Reference Bandwidth	(iv) 0-2° (dBW/m²/BW)
			(v) 2-5° (dBW/m²/BW)
			(vi) 5-15° (dBW/m²/BW)
			(vii) 15-20° (dBW/m²/BW)
			(viii) 20-25° (dBW/m²/BW)
			(ix) 25-90° (dBW/m²/BW)
			(x) Southeastern
			(xi) Northeastern
			(xii) Western Region
			(xiii) Other Region
			(xiv) Energy Dispersal

(Lower Band Edge) (MHz)	(Upper Band Edge) (MHz)	(BW)							Region (dBW/m ² /BW)	Region (dBW/m ² /BW)	(dBW/m ² /BW)	(dBW/m ² /BW)	Bandwidth (kHz)
		4 kHz	-185.5	-183.7	-171.2	-142.6	-140.1	-140.1					

a. Beam ID:	TX105	n. Beam Peak Flux Density at Command Threshold (dBW/m ²):	
b. Beam Frequency (Lower Band Edge) (MHz):	42000	o. Peak Isotropic Antenna Gain (dBi):	41.8
c. Beam Frequency (Upper Band Edge) (MHz):	42500	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.1
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-34.2	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	52.8		

y. Max. Power-Flux Densities													
			Angles of Arrival PFD						Geographic Region PFD				
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m ² /BW)	(v) 2-5° (dBW/m ² /BW)	(vi) 5-15° (dBW/m ² /BW)	(vii) 15-20° (dBW/m ² /BW)	(viii) 20-25° (dBW/m ² /BW)	(ix) 25-90° (dBW/m ² /BW)	(x) Southeastern Region (dBW/m ² /BW)	(xi) Northeastern Region (dBW/m ² /BW)	(xii) Western Region (dBW/m ² /BW)	(xiii) Other Region (dBW/m ² /BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		1 MHz	-135.3	-131.2	-112.6	-108.9	-105.1	-105.1					

a. Beam ID:	TX109	n. Beam Peak Flux Density at Command Threshold (dBW/m ²):	
b. Beam Frequency (Lower Band Edge) (MHz):	42000	o. Peak Isotropic Antenna Gain (dBi):	41.8
c. Beam Frequency (Upper Band Edge) (MHz):	42500	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.1
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	Yes	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-34.2	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	52.8		

y. Max. Power-Flux Densities													
			Angles of Arrival PFD						Geographic Region PFD				
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m ² /BW)	(v) 2-5° (dBW/m ² /BW)	(vi) 5-15° (dBW/m ² /BW)	(vii) 15-20° (dBW/m ² /BW)	(viii) 20-25° (dBW/m ² /BW)	(ix) 25-90° (dBW/m ² /BW)	(x) Southeastern Region (dBW/m ² /BW)	(xi) Northeastern Region (dBW/m ² /BW)	(xii) Western Region (dBW/m ² /BW)	(xiii) Other Region (dBW/m ² /BW)	(xiv) Energy Dispersal Bandwidth (kHz)
		1 MHz	-135.3	-131.2	-112.6	-108.9	-105.1	-105.1					

a. Beam ID:	TX111	n. Beam Peak Flux Density at Command Threshold (dBW/m ²):	
b. Beam Frequency (Lower Band Edge) (MHz):	42000	o. Peak Isotropic Antenna Gain (dBi):	55.3
c. Beam Frequency (Upper Band Edge) (MHz):	42500	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	

d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.1
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	Yes	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-34.2	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	52.8		

y. Max. Power-Flux Densities														
			Angles of Arrival PFD						Geographic Region PFD					
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)	
		1 MHz	-152.2	-148	-112.6	-108.9	-105.1	-105.1						

a. Beam ID:	TX007	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	42000	o. Peak Isotropic Antenna Gain (dBi):	55.3
c. Beam Frequency (Upper Band Edge) (MHz):	42500	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.1
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-36.9	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	50.1		

y. Max. Power-Flux Densities														
			Angles of Arrival PFD						Geographic Region PFD					
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)	
		1 MHz	-152.2	-148	-112.6	-108.9	-105.1	-105.1						

a. Beam ID:	TX101	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	12700	o. Peak Isotropic Antenna Gain (dBi):	34.9
c. Beam Frequency (Upper Band Edge) (MHz):	13250	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.1
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	Yes	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-45.3	w. What information will be provided with the predicted antenna gain contours?:	

k. Maximum Transmit EIRP (dBW):														42.1	
y. Max. Power-Flux Densities															
			Angles of Arrival PFD						Geographic Region PFD						
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)		
		4 kHz	-166.2	-161.6	-153.7	-142.6	-140.1	-140.1							

a. Beam ID:	TX003	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	12700	o. Peak Isotropic Antenna Gain (dBi):	48.9
c. Beam Frequency (Upper Band Edge) (MHz):	13250	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.1
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	Yes	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-47.9	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	39.5		

y. Max. Power-Flux Densities														
			Angles of Arrival PFD							Geographic Region PFD				
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)	
		4 kHz	-175.5	-171.3	-145.1	-142.6	-140.1	-140.1						

a. Beam ID:	TX005	n. Beam Peak Flux Density at Command Threshold (dBW/m²):	
b. Beam Frequency (Lower Band Edge) (MHz):	42000	o. Peak Isotropic Antenna Gain (dBi):	41.8
c. Beam Frequency (Upper Band Edge) (MHz):	42500	p. Isotropic Antenna Gain at 3 dB Beamwidth (dBi):	
d. Polarization:	RHCP	q. Antenna Pointing Error (°):	0.1
e. Can the space station vary the channel bandwidth with on-board processing?:	Yes	r. Antenna Rotational Error (°):	0.1
f. Is this a command beam? (Check box if Yes):	No	s. Will a GIMS container file containing all antenna contour data be provided?:	
g. Is the beam shapeable? (Check box if Yes):	No	t. Under what rules will the associated antenna contours be submitted?:	
h. Is the beam steerable? (Check box if Yes):	Yes	u. Provide a list of each orbital plane in which this antenna beam is used.:	
i. Is the beam fed into transponders? (Check box if Yes):	No	v. Are all space stations in the NGSO constellation identical?:	
j. Maximum Transmit EIRP Density (dBW/Ref BW):	-36.9	w. What information will be provided with the predicted antenna gain contours?:	
k. Maximum Transmit EIRP (dBW):	50.1		

y. Max. Power-Flux Densities														
			Angles of Arrival PFD							Geographic Region PFD				
(i) Beam Sub-Frequency (Lower Band Edge) (MHz)	(ii) Beam Sub-Frequency (Upper Band Edge) (MHz)	(iii) Reference Bandwidth (BW)	(iv) 0-2° (dBW/m²/BW)	(v) 2-5° (dBW/m²/BW)	(vi) 5-15° (dBW/m²/BW)	(vii) 15-20° (dBW/m²/BW)	(viii) 20-25° (dBW/m²/BW)	(ix) 25-90° (dBW/m²/BW)	(x) Southeastern Region (dBW/m²/BW)	(xi) Northeastern Region (dBW/m²/BW)	(xii) Western Region (dBW/m²/BW)	(xiii) Other Region (dBW/m²/BW)	(xiv) Energy Dispersal Bandwidth (kHz)	

		1 MHz	-135.3	-131.2	-112.6	-108.9	-105.1	-105.1					
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S6. Space-to-Space (Receive) Beams

S7. Space-to-Space (Transmit) Beams

S8. Attachments

Beam ID	Direction of Transmission	(i) Document Type	(ii) If Document Type is "Other", provide short description	(iii) File Name
TX001	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item1_freq13.0_gain34.9_isPhasedArray1.zip
TX002	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item1_freq13.0_gain34.9_isPhasedArray1.zip
TX003	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item1_freq13.0_gain48.9_isPhasedArray1.zip
TX004	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item1_freq13.0_gain48.9_isPhasedArray1.zip
TX005	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item4_freq42.3_gain41.8_isPhasedArray0.zip
TX006	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item4_freq42.3_gain41.8_isPhasedArray0.zip
TX007	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item4_freq42.3_gain55.3_isPhasedArray0.zip
TX008	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item4_freq42.3_gain55.3_isPhasedArray0.zip
TX009	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item7_freq42.3_gain41.8_isPhasedArray1.zip
TX010	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item7_freq42.3_gain41.8_isPhasedArray1.zip
TX011	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item7_freq42.3_gain55.3_isPhasedArray1.zip
TX012	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item7_freq42.3_gain55.3_isPhasedArray1.zip
TX101	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item2_freq13.0_gain34.9_isPhasedArray1.zip
TX102	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item2_freq13.0_gain34.9_isPhasedArray1.zip
TX103	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item2_freq13.0_gain48.9_isPhasedArray1.zip
TX104	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item2_freq13.0_gain48.9_isPhasedArray1.zip
TX105	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item5_freq42.3_gain41.8_isPhasedArray0.zip
TX106	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item5_freq42.3_gain41.8_isPhasedArray0.zip

TX107	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item5_freq42.3_gain55.3_isPhasedArray0.zip
TX108	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item5_freq42.3_gain55.3_isPhasedArray0.zip
TX109	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item8_freq42.3_gain41.8_isPhasedArray1.zip
TX110	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item8_freq42.3_gain41.8_isPhasedArray1.zip
TX111	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item8_freq42.3_gain55.3_isPhasedArray1.zip
TX112	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item8_freq42.3_gain55.3_isPhasedArray1.zip
TX301	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item3_freq13.0_gain34.9_isPhasedArray1.zip
TX302	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item3_freq13.0_gain34.9_isPhasedArray1.zip
TX303	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item3_freq13.0_gain48.9_isPhasedArray1.zip
TX304	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item3_freq13.0_gain48.9_isPhasedArray1.zip
TX305	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item6_freq42.3_gain41.8_isPhasedArray0.zip
TX306	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item6_freq42.3_gain41.8_isPhasedArray0.zip
TX307	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item6_freq42.3_gain55.3_isPhasedArray0.zip
TX308	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item6_freq42.3_gain55.3_isPhasedArray0.zip
TX309	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item9_freq42.3_gain41.8_isPhasedArray1.zip
TX310	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item9_freq42.3_gain41.8_isPhasedArray1.zip
TX311	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item9_freq42.3_gain55.3_isPhasedArray1.zip
TX312	Space-to-Earth (Transmit)	Transmit Antenna Gain Contour Diagram		DL_item9_freq42.3_gain55.3_isPhasedArray1.zip