

## 2. EIRP Spectral Density Data

# 2.1. Azimuth pattern for Co-pol (-10°~10°) 1/2

			<u>'</u>			
Angle		EIRP SD		Mask		
	(Degree)	(dBW/4kHz)		(dBW/4kHz)		
	-10.00		0	-16.00		
	-9.90		3	-16.00		
	-9.80		8	-16.00		
	-9.70	-41.49	9	-16.00		
i	-9.60		9	-16.00		
1	-9.50		4	-16.00		
	-9.40		3	-16.00		
Į	-9.30			-16.00		
I	9.20		3	-16.00		
ŀ	-9.10			-16.00		
ļ	-9.00			-16.00		
ŀ	8.90		1	-16.00		
ŀ	-8.80		_	-16.00		
ŀ	-8.70	-41.49		-16.00		
ļ	-8.60	-42.71	⊥	-16.00		
ļ	<u>-8.50</u>	-44.51		-16.00		
L	-8.40	-45.73		-16.00		
L	-8.30	-47.57		-16.00		
L	-8.20	-48.74		-16.00		
L	-8.10	-49.28	L	-16.00		
L	-8.00	-49.18	L	-16.00		
L	-7.90	-48.96		-16.00		
L	-7.80	-51.66	Ĺ	-16.00		
L	-7.70	-52.27	L	-16.00		
L	-7.60	-53.21	L	-16.00		
L	-7.50	-53.06	L	-16.00		
L	-7.40	-52.66	L	-16.00		
L	-7.30	-50.05	L	-16.00		
L	-7.20	-47.90	L	-16.00		
L	<u>-7.10</u>	-46.98	L	-16.00		
	<u>-7.00</u>	-46.00	L	-16.13		
_	-6.90	-45.47	L	-15.97		
_	-6.80	-45.06	L	-15.81		
	-6.70	-44.14		-15.65		
_	-6.60	-43.41	_	-15.49		
_	-6.50	-42.58		-15.32		
	-6.40	<del>-4</del> 1.71	L	-15.15		
	-6.30	-40.97		-14.98		
_	-6.20	-40.76		-14.81		
	-6.10	-40.18		-14.63		
_	-6.00	-40.37		-14.45		
_	-5.90	40.65		-14.27		
_	-5.80	-40.38		-14.09		
_	-5.70	-40.64		-13.90		
	-5.60	-41.73		-13.70		
_	-5.50	-42.07		-13.51		
_	-5.40	-42.87		-13.31		
	-5.30	-42.94		-13.11		
	-5.20	-43.91		-12.90		
-	-5.10	-45.03		-12.69		

Angle (Degree)	EIRP SD	Mask
	(dBW/4kHz)	(dBW/4kHz)
-5.0		-12.4
-4.9		-12.2
-4.8		-12.03
-4.7		-11.80
-4.60 -4.50		-11.57
-4.40		-11.33
-4.30		-11.09
-4.20		-10.84
-4.10		-10.58
-4.00		-10.32
-3.90		-10.05
-3.80		-9.78
-3.70		-9.49
-3.60	-28.81	-9.21
-3.50	-27.87	-8.91
-3.40	-26.83	-8.60
-3.30	-26.33	-8.29
-3.20	-25.80	<u>-7.96</u>
-3.10	-25.27	<u>-7.63</u>
-3.00	-24.99	-7.28
-2.90	-24.36	-6.93
-2.80	-23.77	<u>-6.56</u>
-2.70	-22.85	-6.18 5.78
-2.60	-22.02	<u>-5.78</u>
-2.50	-20.67	-5.37 -4.95
-2.40	-19.47	-4.95 -4.51
-2.30	-18.19	-4.04
-2.20	-17.07	-3.56
-2.10	-15.76	-3.06
-2.00	-14.75	-2.53
-1.90	-13.97	-1.97
-1.80	-13.09	-1.38
-1.70	-12.51	-1.50
-1.60	-11.92	
-1.50	-11.49	
-1.40	-11.17	· · · · · · · · · · · · · · · · · · ·
-1.30	-11.07	
-1.20	-11.08	
-1.10	-11.20	
-1.00	-11.52	
-0.90	-12.07	
-0.80	-12.63	
-0.70	-13.39	
-0.60	-14.16	
-0.50	-15.39	
-0.40	-16.66	
-0.30	-17.92	
-0.20	-18.64	
0.20		

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### 2.2. Azimuth pattern for Co-pol (- $10^{\circ}$ ~ $10^{\circ}$ ) 2/2

14.25GHZ@ -16.2 dBW/ 4kHz							
Angle	EIRP SD	Mask					
(Degree)	(dBW/4kHz)	(dBW/4kHz)					
0.00	-18.11						
0.10	-17.25						
0.20	-16.52						
0.30	-15.94						
0.40	-15.35						
0.50	-15.30						
0.60	-15.33						
0.70	-15.56						
0.80	-15.93						
0.90	-16.65						
1.00	-17.71						
1.10	-19.00						
1.20	-20.70						
1.30	-22.68						
1.40	-24.42	·					
1.50	-25.65						
1.60	-25.01						
1.70							
1.80	-23.86	1 20					
1.90	-23.30	-1.38					
2.00	-22.15	-1.97					
2.10	-21.56	-2.53					
	-21.32	-3.06					
2.20	-21.18	-3.56					
2.30	-21.56	-4.04					
2.40	-21.73	-4.51					
2.50	-22.80	-4.95					
2.60	-24.34	-5.37					
2.70	-25.86	-5.78					
2.80	-28.13	-6.18					
2.90	-31.07	-6.56					
3.00	-33.74	-6.93					
3.10	-35.50	-7.28					
3.20	-33.67	-7.63					
3.30	-31.04	-7.96					
3.40	-29.88	-8.29					
3.50	-28.85	-8.60					
3.60	-28.20	-8.91					
3.70	-28.10	-9.21					
3.80	-27.80	-9.49					
3.90	-28.00	-9.78					
4.00	-28.74	-10.05					
4.10	-29.44	-10.32					
4.20	-30.18	-10.58					
4.30	-31.04	-10.84					
4.40	-31.47	-11.09					
4.50	-32.15	-11.33					
4.60	-32.62	-11.57					
4.70	-32.93	-11.80					
4.80	-33.50	-12.03					
4.90	-34.23	-12.25					

5.10     -35.59       5.20     -37.27       5.30     -38.24       5.40     -38.84	
5.00     -34.98       5.10     -35.59       5.20     -37.27       5.30     -38.24       5.40     -38.84	12.47 12.69 12.90 13.11 13.31 13.51
5.10     -35.59       5.20     -37.27       5.30     -38.24       5.40     -38.84	12.69 12.90 13.11 13.31 13.51
5.20     -37.27       5.30     -38.24       5.40     -38.84	12.90 13.11 13.31 13.51
5.30 -38.24 - 5.40 -38.84 -	13.11 13.31 13.51
5.40 -38.84 -	13.31 13.51
	13.51
1 5501 20021	
	<u>13.70</u>
	13.90
	14.09
	14.27
	14.45
	14.63
	14.81
	14.98
	<u> 15.15</u>
	15.32
	15.49
The state of the s	15.65
	15.81
	15.97
	16.13
	16.00
7.20 -41.19 -	16.00
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	6.00
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10.00 -48.84 -1	6.00

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### 2.3. Azimuth pattern for Co-pol (-180°~180°) 1/4

	G 10.2 GDVV/	TRITZ
Angle	EIRP SD	Mask
(Degree)	(dBW/4kHz)	(dBW/4kHz)
-180.00	-38.45	-14.00
-179.00	-36.72	-14.00
-178.00	-38.34	-14.00
-177.00	-41.54	
-176.00		-14.00
	-38.61	-14.00
-175.00	-36.72	-14.00
-174.00	-39.44	-14.00
-173.00	-45.12	-14.00
-172.00	-38.59	-14.00
-171.00	-41.29	-14.00
-170.00	-41.94	-14.00
-169.00	-46.74	-14.00
-168.00	-46.08	-14.00
-167.00	-48.49	-14.00
-166.00	-40.38	-14.00
-165.00	-44.75	-14.00
-164.00	-39.92	-14.00
-163.00	-45.64	-14.00
-162.00	-50.79	-14.00
-161.00		
	-45.67	-14.00
-160.00	-42.38	-14.00
-159.00	-55.14	-14.00
-158.00	-59.58	-14.00
-157.00	-43.17	-14.00
-156.00	-36.44	-14.00
-155.00	-37.60	-14.00
-154.00	-43.88	-14.00
-153.00	-54.07	-14.00
-152.00	-37.89	-14.00
-151.00	-43.67	-14.00
-150.00	-44.19	-14.00
-149.00	-42.63	-14.00
-148.00	-40.14	-14.00
-147.00	-37.56	-14.00
-146.00	-54.81	-14.00
-145.00	-38.54	-14.00
-144.00	-46.82	-14.00
-143.00	-34.51	-14.00
-142.00		
	-44.31	-14.00
-141.00	-38.07	-14.00
-140.00	-39.50	-14.00
-139.00	-38.46	-14.00
-138.00	-44.31	-14.00
-137.00	-41.91	-14.00
-136.00	-39.79	-14.00

1 Anala	EIRP SD	1 141
Angle		Mask
(Degree) -135.00	(dBW/4kHz) -40.72	(dBW/4kHz)
-134.00		-14.00
-133.00		
-132.00		-14.00
-131.00		-14.00
-130.00		-14.00
-129.00		-14.00
-128.00		-14.00
-127.00		-14.00
-126.00	-44.15	-14.00
-125.00	-42.53	-14.00
-124.00	-43.17	-14.00
-123.00	-41.20	-14.00
	-40.79	-14.00
-122.00	-46.68	-14.00
-121.00	-41.41	-14.00
-120.00 -119.00	-39.76	-14.00
	-37.20	-14.00
-118.00	-40.08	-14.00
-117.00	-39.12	-14.00
-116.00	-36.24	-14.00
-115.00 -114.00	-36.81	-14.00
-113.00	-35.96	-14.00
-112.00	-38.69	-14.00
-111.00	-38.76	-14.00
	-33.49	-14.00
-110.00	-36.05	-14.00
-109.00 -108.00	-35.53	-14.00
-107.00	-34.21	-14.00
-106.00	-38.36	-14.00
-105.00	-34.18	-14.00
	-30.94	-14.00
-104.00	-34.00	-14.00
-103.00	-35.47	-14.00
-102.00 -101.00	-37.65	-14.00
-100.00	-38.23	-14.00
	-34.30	-14.00
-99.00	-31.79	-14.00
-98.00	-34.95	-14.00
-97.00	-47.91	-14.00
-96.00	-42.14	-14.00
-95.00	-34.84	-14.00
-94.00	-29.64	-14.00
-93.00	-28.54	-14.00
-92.00	-29.53	-14.00
-91.00	-32.39	-14.00

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## 2.4. Azimuth pattern for Co-pol (-180°~180°) 2/4

	G 10.2 abvv/	TINI IZ
Angle	EIRP SD	Mask
(Degree)	(dBW/4kHz)	(dBW/4kHz)
-90.00	-34.72	-14.00
-89.00	-29.72	-14.00
-88.00		
	-28.76	-14.00
-87.00	-25.63	-14.00
-86.00	-26.69	-14.00
-85.00	-25.66	-24.00
-84.00	-27.08	-24.00
-83.00	-25.65	-24.00
-82.00	-24.83	-24.00
-81.00	-25.86	-24.00
-80.00		
	-25.36	-24.00
-79.00	-25.91	-24.00
-78.00	-27.97	-24.00
-77.00	-26.78	-24.00
-76.00	-31.71	-24.00
-75.00	-27.99	-24.00
-74.00	-31.33	-24.00
-73.00	-31.09	-24.00
-72.00	-30.31	-24.00
-71.00	-28.50	-24.00
-70.00	-33.86	-24.00
-69.00	-32.63	-24.00
-68.00	-30.82	-24.00
-67.00	-31.35	-24.00
-66.00	-32.49	-24.00
-65.00	-30.99	-24.00
-64.00	-31.61	-24.00
-63.00	-32.92	-24.00
-62.00	-37.04	
		-24.00
-61.00	-33.06	-24.00
-60.00	-32.89	-24.00
-59.00	-30.88	-24.00
-58.00	-35.41	-24.00
-57.00	-47.64	-24.00
-56.00	-38.38	-24.00
-55.00	-30.85	-24.00
-54.00	-33.00	-24.00
-53.00	-44.63	
		-24.00
-52.00	-44.06	-24.00
-51.00	-33.76	-24.00
-50.00	-38.69	-24.00
-49.00	-36.32	-24.00
-48.00	-43.68	-24.03
-47.00	-39.93	-23.80
-46.00	-37.93	-23.57
	0,,00	20.01

Angle	EIRP SD	Mask
(Degree)	(dBW/4kHz)	(dBW/4kHz)
-45.00	-31.32	-23.33
-44.00	-48.94	-23.09
-43.00	-35.63	-22.84
-42.00	-32.47	-22.58
-41.00	-31.82	-22.32
-40.00	-41.44	-22.05
-39.00	-33.30	-21.78
-38.00	-37.71	-21.49
-37.00	-35.82	-21.21
-36.00	-42.69	-20.91
-35.00	<u>-41</u> .45	-20.60
-34.00	-43.23	-20.29
-33.00	-36.93	-19.96
-32.00	-37.40	-19.63
-31.00	-34.61	-19.28
-30.00	-44.32	-18.93
-29.00	-37.93	-18.56
-28.00 -27.00	-41.41	<u>-18.18</u>
-26.00	-36.09 -37.49	-17.78
-25.00	-56.41	-17.37 -16.95
-24.00	-37.96	-16.51
-23.00	-38.86	-16.04
-22.00	-50.60	-15.56
-21.00	-37.00	-15.06
-20.00	-41.53	-14.53
-19.00	-31.39	-13.97
-18.00	-31.69	-13.38
-17.00	-31.90	-12.76
-16.00	-41.01	-12.10
-15.00	-43.40	<u>-11.40</u>
-14.00	-32.48	-10.65
-13.00	-28.85	-9.85
-12.00	-18.42	-8.98
-11.00 -10.00	-22.86	-8.03
-9.00	-20.61 -11.18	-7.00
-8.00	-16.94	-6.00
-7.00	-10.97	-6.00 -6.13
-6.00	-8.33	-4.45
-5.00	-9.46	-2.47
-4.00	-6.06	-0.05
-3.00	-2.66	3.07
-2.00	5.20	7.47
-1.00	18.03	
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## 2.5. Azimuth pattern for Co-pol (-180 $^{\circ}$ ~180 $^{\circ}$ ) 3/4

ſ	Angle	EIRP SD	T Manta	
	(Degree)	(dBW/4kHz)	Mask (dBW/4kHz)	
t	0.00		(UDVV/4KHZ)	
ŀ	1.00		<del>                                     </del>	
ľ	2.00		7.47	
ı	3.00		3.07	
	4.00		-0.05	
ſ	5.00		-2.47	
ſ	6.00		-4.45	
	7.00		-6.13	
	8.00	-14.42	-6.00	
	9.00	-17.51	-6.00	
	10.00	-30.89	-7.00	
L	11.00	-18.79	-8.03	
L	12.00	-16.75	-8.98	
L	13.00	-29.12	-9.85	
L	14.00	-31.51	-10.65	
L	15.00	-37.20	-11.40	
L	16.00	-52.24	-12.10	
L	17.00	-32.49	-12.76	
L	18.00	-31.70	-13.38	
L	19.00	-33.16	-13.97	
H	20.00	-42.04	-14.53	
ŀ	21.00	-37.66	-15.06	
H	22.00	-41.54	-15.56	
┝	23.00	-34.88	-16.04	
┝	24.00 25.00	-33.99	-16.51	
⊢	26.00	-42.26	-16.95	
┝	27.00	-36.13	<u>-17.37</u>	
┝	28.00	-36.71	-17.78	
┝	29.00	-41.55 -37.97	-18.18 -18.56	
-	30.00	-43.29	-18.93	
	31.00	-36.36	-19.28	
_	32.00	-26.03	-19.63	
	33.00	-28.64	-19.96	
_	34.00	-38.68	-20.29	
	35.00	-43.95	-20.60	
	36.00	-45.83	-20.91	
	37.00	-33.67	-21.21	
	38.00	-38.31	-21.49	
	39.00	-32.00	-21.78	
	40.00	-34.26	-22.05	
	41.00	-31.57	-22.32	
	42.00	-40.40	-22.58	
	43.00	-42.52	-22.84	
	44.00	-39.61	-23.09	

(Degree)         (dBW/4kHz)         (dBW/4kHz)           45.00         -32.49         -23.33           46.00         -38.43         -23.57			T	
45.00         -32.49         -23.33           46.00         -38.43         -23.57           47.00         -62.40         -23.80           48.00         -39.57         -24.03           49.00         -40.26         -24.00           50.00         -35.14         -24.00           51.00         -56.01         -24.00           52.00         -40.71         -24.00           53.00         -42.31         -24.00           54.00         -33.44         -24.00           55.00         -33.44         -24.00           56.00         -41.01         -24.00           57.00         -37.24         -24.00           58.00         -31.49         -24.00           59.00         -35.30         -24.00           60.00         -35.31         -24.00           61.00         -35.13         -24.00           62.00         -37.54         -24.00           63.00         -33.89         -24.00           63.00         -34.23         -24.00           65.00         -34.23         -24.00           65.00         -34.73         -24.00           66.00         -34.73	Angle	EIRP SD		
46.00         -38.43         -23.57           47.00         -62.40         -23.80           48.00         -39.57         -24.03           49.00         -40.26         -24.00           50.00         -35.14         -24.00           51.00         -56.01         -24.00           52.00         -40.71         -24.00           53.00         -42.31         -24.00           54.00         -33.44         -24.00           55.00         -33.44         -24.00           56.00         -41.01         -24.00           57.00         -37.24         -24.00           58.00         -31.49         -24.00           59.00         -35.30         -24.00           60.00         -35.31         -24.00           61.00         -35.13         -24.00           62.00         -37.54         -24.00           63.00         -33.89         -24.00           63.00         -34.23         -24.00           65.00         -34.73         -24.00           65.00         -34.73         -24.00           66.00         -37.50         -24.00           67.00         -37.50			(dBW/4kHz)	
47.00         -62.40         -23.80           48.00         -39.57         -24.03           49.00         -40.26         -24.00           50.00         -35.14         -24.00           51.00         -56.01         -24.00           52.00         -40.71         -24.00           53.00         -42.31         -24.00           54.00         -33.44         -24.00           55.00         -34.44         -24.00           56.00         -41.01         -24.00           58.00         -31.49         -24.00           59.00         -35.30         -24.00           60.00         -35.31         -24.00           61.00         -35.13         -24.00           62.00         -37.54         -24.00           63.00         -37.54         -24.00           63.00         -33.89         -24.00           65.00         -34.23         -24.00           65.00         -34.23         -24.00           65.00         -34.73         -24.00           65.00         -34.73         -24.00           66.00         -37.50         -24.00           69.00         -35.10		-32.49	-23.33	
48.00         -39.57         -24.03           49.00         -40.26         -24.00           50.00         -35.14         -24.00           51.00         -56.01         -24.00           52.00         -40.71         -24.00           53.00         -42.31         -24.00           54.00         -33.44         -24.00           55.00         -33.44         -24.00           56.00         -41.01         -24.00           57.00         -37.24         -24.00           58.00         -31.49         -24.00           59.00         -35.30         -24.00           60.00         -35.24         -24.00           61.00         -35.13         -24.00           62.00         -37.54         -24.00           63.00         -33.83         -24.00           63.00         -34.23         -24.00           65.00         -34.23         -24.00           65.00         -34.73         -24.00           65.00         -34.73         -24.00           66.00         -37.50         -24.00           69.00         -35.10         -24.00           70.00         -31.77		-38.43	-23.57	
49.00         -40.26         -24.00           50.00         -35.14         -24.00           51.00         -56.01         -24.00           52.00         -40.71         -24.00           53.00         -42.31         -24.00           54.00         -33.44         -24.00           55.00         -33.44         -24.00           56.00         -41.01         -24.00           57.00         -37.24         -24.00           58.00         -31.49         -24.00           59.00         -35.30         -24.00           60.00         -35.13         -24.00           61.00         -35.13         -24.00           62.00         -37.54         -24.00           63.00         -33.89         -24.00           65.00         -34.23         -24.00           65.00         -34.23         -24.00           65.00         -34.73         -24.00           66.00         -37.50         -24.00           68.00         -39.70         -24.00           69.00         -35.10         -24.00           70.00         -31.93         -24.00           75.00         -30.86	47.00	-62.40	-23.80	
50.00         -35.14         -24.00           51.00         -56.01         -24.00           52.00         -40.71         -24.00           53.00         -42.31         -24.00           54.00         -33.44         -24.00           55.00         -33.44         -24.00           56.00         -41.01         -24.00           57.00         -37.24         -24.00           58.00         -31.49         -24.00           59.00         -35.30         -24.00           60.00         -35.24         -24.00           61.00         -35.13         -24.00           62.00         -37.54         -24.00           63.00         -33.03         -24.00           63.00         -33.89         -24.00           65.00         -34.23         -24.00           65.00         -34.73         -24.00           67.00         -37.50         -24.00           68.00         -39.70         -24.00           69.00         -35.10         -24.00           70.00         -31.93         -24.00           73.00         -32.61         -24.00           75.00         -30.86	48.00	-39.57	-24.03	
51.00         -56.01         -24.00           52.00         -40.71         -24.00           53.00         -42.31         -24.00           54.00         -33.44         -24.00           55.00         -33.44         -24.00           56.00         -41.01         -24.00           57.00         -37.24         -24.00           58.00         -31.49         -24.00           59.00         -35.30         -24.00           60.00         -35.13         -24.00           61.00         -35.13         -24.00           62.00         -37.54         -24.00           63.00         -33.03         -24.00           63.00         -33.89         -24.00           65.00         -34.23         -24.00           65.00         -34.73         -24.00           66.00         -34.73         -24.00           67.00         -37.50         -24.00           68.00         -39.70         -24.00           69.00         -35.10         -24.00           70.00         -31.93         -24.00           70.00         -30.86         -24.00           73.00         -30.86	49.00	-40.26	-24.00	
52.00         -40.71         -24.00           53.00         -42.31         -24.00           54.00         -33.44         -24.00           55.00         -33.44         -24.00           56.00         -41.01         -24.00           57.00         -37.24         -24.00           58.00         -31.49         -24.00           59.00         -35.30         -24.00           60.00         -35.24         -24.00           61.00         -35.13         -24.00           62.00         -37.54         -24.00           63.00         -33.03         -24.00           64.00         -33.89         -24.00           65.00         -34.23         -24.00           65.00         -34.73         -24.00           67.00         -37.50         -24.00           68.00         -39.70         -24.00           69.00         -35.10         -24.00           70.00         -31.93         -24.00           70.00         -32.63         -24.00           75.00         -30.86         -24.00           75.00         -30.92         -24.00           76.00         -25.63	50.00	-35.14	-24.00	
53.00         -42.31         -24.00           54.00         -33.44         -24.00           55.00         -33.44         -24.00           56.00         -41.01         -24.00           57.00         -37.24         -24.00           58.00         -31.49         -24.00           59.00         -35.30         -24.00           60.00         -35.24         -24.00           61.00         -35.13         -24.00           62.00         -37.54         -24.00           63.00         -33.03         -24.00           64.00         -33.89         -24.00           65.00         -34.23         -24.00           65.00         -34.73         -24.00           67.00         -37.50         -24.00           68.00         -39.70         -24.00           69.00         -35.10         -24.00           70.00         -31.93         -24.00           72.00         -30.86         -24.00           73.00         -32.61         -24.00           75.00         -30.92         -24.00           76.00         -27.26         -24.00           78.00         -25.63	51.00	-56.01	-24.00	
53.00         -42.31         -24.00           54.00         -33.44         -24.00           55.00         -33.44         -24.00           56.00         -41.01         -24.00           57.00         -37.24         -24.00           58.00         -31.49         -24.00           59.00         -35.30         -24.00           60.00         -35.24         -24.00           61.00         -35.13         -24.00           62.00         -37.54         -24.00           63.00         -33.03         -24.00           64.00         -33.89         -24.00           65.00         -34.23         -24.00           65.00         -34.73         -24.00           67.00         -37.50         -24.00           68.00         -39.70         -24.00           69.00         -35.10         -24.00           70.00         -31.93         -24.00           72.00         -30.86         -24.00           73.00         -32.61         -24.00           75.00         -30.92         -24.00           76.00         -27.26         -24.00           76.00         -25.63	52.00	-40.71	-24.00	
54.00         -33.44         -24.00           55.00         -33.44         -24.00           56.00         -41.01         -24.00           57.00         -37.24         -24.00           58.00         -31.49         -24.00           59.00         -35.30         -24.00           60.00         -35.24         -24.00           61.00         -35.13         -24.00           62.00         -37.54         -24.00           63.00         -33.03         -24.00           64.00         -33.89         -24.00           65.00         -34.23         -24.00           66.00         -34.73         -24.00           67.00         -37.50         -24.00           68.00         -39.70         -24.00           69.00         -35.10         -24.00           70.00         -31.93         -24.00           71.00         -32.63         -24.00           73.00         -30.86         -24.00           75.00         -30.92         -24.00           76.00         -29.26         -24.00           76.00         -29.26         -24.00           78.00         -25.63	53.00	-42.31		
55.00         -33.44         -24.00           56.00         -41.01         -24.00           57.00         -37.24         -24.00           58.00         -31.49         -24.00           59.00         -35.30         -24.00           60.00         -35.24         -24.00           61.00         -35.13         -24.00           62.00         -37.54         -24.00           63.00         -33.03         -24.00           64.00         -33.89         -24.00           65.00         -34.23         -24.00           66.00         -34.73         -24.00           67.00         -37.50         -24.00           68.00         -39.70         -24.00           69.00         -35.10         -24.00           70.00         -31.93         -24.00           71.00         -32.63         -24.00           73.00         -32.63         -24.00           75.00         -30.86         -24.00           75.00         -30.92         -24.00           76.00         -29.26         -24.00           77.00         -27.26         -24.00           78.00         -25.63	54.00	-33.44		
56.00         -41.01         -24.00           57.00         -37.24         -24.00           58.00         -31.49         -24.00           59.00         -35.30         -24.00           60.00         -35.24         -24.00           61.00         -35.13         -24.00           62.00         -37.54         -24.00           63.00         -33.03         -24.00           64.00         -33.89         -24.00           65.00         -34.23         -24.00           67.00         -37.50         -24.00           68.00         -39.70         -24.00           69.00         -35.10         -24.00           70.00         -31.93         -24.00           71.00         -32.63         -24.00           72.00         -30.86         -24.00           73.00         -32.61         -24.00           75.00         -30.92         -24.00           76.00         -27.26         -24.00           76.00         -25.63         -24.00           79.00         -25.63         -24.00           80.00         -25.63         -24.00           80.00         -25.63	55.00	-33.44	-24.00	
57.00         -37.24         -24.00           58.00         -31.49         -24.00           59.00         -35.30         -24.00           60.00         -35.24         -24.00           61.00         -35.13         -24.00           62.00         -37.54         -24.00           63.00         -33.03         -24.00           64.00         -33.89         -24.00           65.00         -34.23         -24.00           66.00         -34.73         -24.00           67.00         -37.50         -24.00           68.00         -39.70         -24.00           69.00         -35.10         -24.00           70.00         -31.93         -24.00           71.00         -32.63         -24.00           72.00         -30.86         -24.00           73.00         -32.61         -24.00           75.00         -30.92         -24.00           76.00         -29.26         -24.00           77.00         -27.26         -24.00           79.00         -25.63         -24.00           80.00         -25.02         -24.00           81.00         -24.19	56.00	-41.01		
58.00         -31.49         -24.00           59.00         -35.30         -24.00           60.00         -35.24         -24.00           61.00         -35.13         -24.00           62.00         -37.54         -24.00           63.00         -33.03         -24.00           64.00         -33.89         -24.00           65.00         -34.23         -24.00           66.00         -34.73         -24.00           67.00         -37.50         -24.00           68.00         -39.70         -24.00           69.00         -35.10         -24.00           70.00         -31.93         -24.00           71.00         -32.63         -24.00           72.00         -30.86         -24.00           73.00         -32.61         -24.00           75.00         -30.92         -24.00           76.00         -29.26         -24.00           77.00         -27.26         -24.00           78.00         -25.41         -24.00           79.00         -25.63         -24.00           81.00         -25.63         -24.00           82.00         -24.74	57.00	-37.24		
59.00         -35.30         -24.00           60.00         -35.24         -24.00           61.00         -35.13         -24.00           62.00         -37.54         -24.00           63.00         -33.03         -24.00           64.00         -33.89         -24.00           65.00         -34.23         -24.00           66.00         -34.73         -24.00           67.00         -37.50         -24.00           68.00         -39.70         -24.00           69.00         -35.10         -24.00           70.00         -31.93         -24.00           71.00         -32.63         -24.00           72.00         -30.86         -24.00           73.00         -32.61         -24.00           75.00         -30.92         -24.00           76.00         -29.26         -24.00           76.00         -29.26         -24.00           78.00         -25.41         -24.00           78.00         -25.63         -24.00           80.00         -25.63         -24.00           81.00         -25.63         -24.00           82.00         -24.19	58.00			
60.00         -35.24         -24.00           61.00         -35.13         -24.00           62.00         -37.54         -24.00           63.00         -33.03         -24.00           64.00         -33.89         -24.00           65.00         -34.23         -24.00           66.00         -34.73         -24.00           67.00         -37.50         -24.00           68.00         -39.70         -24.00           69.00         -35.10         -24.00           70.00         -31.93         -24.00           71.00         -32.63         -24.00           72.00         -30.86         -24.00           73.00         -32.61         -24.00           75.00         -30.92         -24.00           76.00         -29.26         -24.00           77.00         -27.26         -24.00           78.00         -25.41         -24.00           79.00         -25.63         -24.00           81.00         -25.02         -24.00           81.00         -24.19         -24.00           82.00         -24.74         -24.00           85.00         -26.70				
61.00         -35.13         -24.00           62.00         -37.54         -24.00           63.00         -33.03         -24.00           64.00         -33.89         -24.00           65.00         -34.23         -24.00           66.00         -34.73         -24.00           67.00         -37.50         -24.00           68.00         -39.70         -24.00           69.00         -35.10         -24.00           70.00         -31.93         -24.00           71.00         -32.63         -24.00           72.00         -30.86         -24.00           73.00         -32.61         -24.00           74.00         -31.17         -24.00           75.00         -30.92         -24.00           76.00         -29.26         -24.00           77.00         -27.26         -24.00           79.00         -25.63         -24.00           80.00         -25.63         -24.00           81.00         -24.19         -24.00           82.00         -24.74         -24.00           84.00         -26.99         -24.00           85.00         -26.70				
62.00         -37.54         -24.00           63.00         -33.03         -24.00           64.00         -33.89         -24.00           65.00         -34.23         -24.00           66.00         -34.73         -24.00           67.00         -37.50         -24.00           68.00         -39.70         -24.00           69.00         -35.10         -24.00           70.00         -31.93         -24.00           71.00         -32.63         -24.00           73.00         -32.61         -24.00           73.00         -32.61         -24.00           75.00         -30.92         -24.00           76.00         -29.26         -24.00           77.00         -27.26         -24.00           78.00         -25.41         -24.00           79.00         -25.63         -24.00           81.00         -25.02         -24.00           82.00         -24.19         -24.00           82.00         -24.74         -24.00           84.00         -26.99         -24.00           85.00         -26.02         -24.00           86.00         -26.48	61.00			
63.00         -33.03         -24.00           64.00         -33.89         -24.00           65.00         -34.23         -24.00           66.00         -34.73         -24.00           67.00         -37.50         -24.00           68.00         -39.70         -24.00           69.00         -35.10         -24.00           70.00         -31.93         -24.00           71.00         -32.63         -24.00           73.00         -32.61         -24.00           73.00         -32.61         -24.00           75.00         -30.92         -24.00           76.00         -29.26         -24.00           77.00         -27.26         -24.00           78.00         -25.41         -24.00           79.00         -25.63         -24.00           80.00         -25.02         -24.00           81.00         -24.19         -24.00           82.00         -24.74         -24.00           84.00         -26.99         -24.00           85.00         -26.70         -24.00           86.00         -26.48         -14.00           87.00         -26.48	62.00			
64.00         -33.89         -24.00           65.00         -34.23         -24.00           66.00         -34.73         -24.00           67.00         -37.50         -24.00           68.00         -39.70         -24.00           69.00         -35.10         -24.00           70.00         -31.93         -24.00           71.00         -32.63         -24.00           72.00         -30.86         -24.00           73.00         -32.61         -24.00           74.00         -31.17         -24.00           75.00         -30.92         -24.00           76.00         -29.26         -24.00           77.00         -27.26         -24.00           78.00         -25.41         -24.00           79.00         -25.63         -24.00           80.00         -25.02         -24.00           81.00         -24.19         -24.00           82.00         -24.74         -24.00           83.00         -26.99         -24.00           85.00         -26.70         -24.00           86.00         -26.48         -14.00           87.00         -29.67				
65.00         -34.23         -24.00           66.00         -34.73         -24.00           67.00         -37.50         -24.00           68.00         -39.70         -24.00           69.00         -35.10         -24.00           70.00         -31.93         -24.00           71.00         -32.63         -24.00           72.00         -30.86         -24.00           73.00         -32.61         -24.00           74.00         -31.17         -24.00           75.00         -30.92         -24.00           76.00         -29.26         -24.00           77.00         -27.26         -24.00           78.00         -25.41         -24.00           79.00         -25.63         -24.00           80.00         -25.02         -24.00           81.00         -24.19         -24.00           82.00         -24.74         -24.00           83.00         -26.99         -24.00           85.00         -26.02         -24.00           86.00         -26.48         -14.00           87.00         -29.67         -14.00           88.00         -35.14				
66.00         -34.73         -24.00           67.00         -37.50         -24.00           68.00         -39.70         -24.00           69.00         -35.10         -24.00           70.00         -31.93         -24.00           71.00         -32.63         -24.00           72.00         -30.86         -24.00           73.00         -32.61         -24.00           74.00         -31.17         -24.00           75.00         -30.92         -24.00           76.00         -29.26         -24.00           77.00         -27.26         -24.00           78.00         -25.41         -24.00           79.00         -25.63         -24.00           80.00         -25.02         -24.00           81.00         -24.19         -24.00           82.00         -24.74         -24.00           83.00         -26.99         -24.00           85.00         -26.02         -24.00           86.00         -26.48         -14.00           87.00         -29.67         -14.00           88.00         -35.14         -14.00				
67.00         -37.50         -24.00           68.00         -39.70         -24.00           69.00         -35.10         -24.00           70.00         -31.93         -24.00           71.00         -32.63         -24.00           72.00         -30.86         -24.00           73.00         -32.61         -24.00           74.00         -31.17         -24.00           75.00         -30.92         -24.00           76.00         -29.26         -24.00           77.00         -27.26         -24.00           78.00         -25.41         -24.00           79.00         -25.63         -24.00           80.00         -25.63         -24.00           81.00         -24.19         -24.00           82.00         -24.74         -24.00           83.00         -26.99         -24.00           84.00         -26.70         -24.00           85.00         -26.48         -14.00           87.00         -29.67         -14.00           88.00         -35.14         -14.00				
68.00         -39.70         -24.00           69.00         -35.10         -24.00           70.00         -31.93         -24.00           71.00         -32.63         -24.00           72.00         -30.86         -24.00           73.00         -32.61         -24.00           74.00         -31.17         -24.00           75.00         -30.92         -24.00           76.00         -29.26         -24.00           77.00         -27.26         -24.00           78.00         -25.41         -24.00           79.00         -25.63         -24.00           80.00         -25.02         -24.00           81.00         -24.19         -24.00           82.00         -24.74         -24.00           83.00         -26.99         -24.00           84.00         -26.70         -24.00           85.00         -26.48         -14.00           87.00         -29.67         -14.00           88.00         -35.14         -14.00				
69.00         -35.10         -24.00           70.00         -31.93         -24.00           71.00         -32.63         -24.00           72.00         -30.86         -24.00           73.00         -32.61         -24.00           74.00         -31.17         -24.00           75.00         -30.92         -24.00           76.00         -29.26         -24.00           77.00         -27.26         -24.00           78.00         -25.41         -24.00           79.00         -25.63         -24.00           80.00         -25.02         -24.00           81.00         -24.19         -24.00           82.00         -24.74         -24.00           83.00         -26.99         -24.00           84.00         -26.99         -24.00           85.00         -26.02         -24.00           86.00         -26.48         -14.00           87.00         -29.67         -14.00           88.00         -35.14         -14.00				
70.00         -31.93         -24.00           71.00         -32.63         -24.00           72.00         -30.86         -24.00           73.00         -32.61         -24.00           74.00         -31.17         -24.00           75.00         -30.92         -24.00           76.00         -29.26         -24.00           77.00         -27.26         -24.00           78.00         -25.41         -24.00           79.00         -25.63         -24.00           80.00         -25.02         -24.00           81.00         -24.19         -24.00           82.00         -24.74         -24.00           83.00         -26.99         -24.00           84.00         -26.70         -24.00           85.00         -26.02         -24.00           86.00         -26.48         -14.00           87.00         -29.67         -14.00           88.00         -35.14         -14.00	69.00			
71.00         -32.63         -24.00           72.00         -30.86         -24.00           73.00         -32.61         -24.00           74.00         -31.17         -24.00           75.00         -30.92         -24.00           76.00         -29.26         -24.00           77.00         -27.26         -24.00           78.00         -25.41         -24.00           79.00         -25.63         -24.00           80.00         -25.02         -24.00           81.00         -24.19         -24.00           82.00         -24.74         -24.00           83.00         -26.99         -24.00           84.00         -26.70         -24.00           85.00         -26.02         -24.00           86.00         -26.48         -14.00           87.00         -29.67         -14.00           88.00         -35.14         -14.00	70.00			
72.00         -30.86         -24.00           73.00         -32.61         -24.00           74.00         -31.17         -24.00           75.00         -30.92         -24.00           76.00         -29.26         -24.00           77.00         -27.26         -24.00           78.00         -25.41         -24.00           79.00         -25.63         -24.00           80.00         -25.02         -24.00           81.00         -24.19         -24.00           82.00         -24.74         -24.00           83.00         -26.99         -24.00           84.00         -26.70         -24.00           85.00         -26.02         -24.00           86.00         -26.48         -14.00           87.00         -29.67         -14.00           88.00         -35.14         -14.00	71.00			
73.00         -32.61         -24.00           74.00         -31.17         -24.00           75.00         -30.92         -24.00           76.00         -29.26         -24.00           77.00         -27.26         -24.00           78.00         -25.41         -24.00           79.00         -25.63         -24.00           80.00         -25.02         -24.00           81.00         -24.19         -24.00           82.00         -24.74         -24.00           83.00         -26.99         -24.00           84.00         -26.70         -24.00           85.00         -26.02         -24.00           86.00         -26.48         -14.00           87.00         -29.67         -14.00           88.00         -35.14         -14.00	72.00			
74.00         -31.17         -24.00           75.00         -30.92         -24.00           76.00         -29.26         -24.00           77.00         -27.26         -24.00           78.00         -25.41         -24.00           79.00         -25.63         -24.00           80.00         -25.02         -24.00           81.00         -24.19         -24.00           82.00         -24.74         -24.00           83.00         -26.99         -24.00           84.00         -26.70         -24.00           85.00         -26.02         -24.00           86.00         -26.48         -14.00           87.00         -29.67         -14.00           88.00         -35.14         -14.00				
75.00         -30.92         -24.00           76.00         -29.26         -24.00           77.00         -27.26         -24.00           78.00         -25.41         -24.00           79.00         -25.63         -24.00           80.00         -25.02         -24.00           81.00         -24.19         -24.00           82.00         -24.74         -24.00           83.00         -26.99         -24.00           84.00         -26.70         -24.00           85.00         -26.02         -24.00           86.00         -26.48         -14.00           87.00         -29.67         -14.00           88.00         -35.14         -14.00	74.00			
76.00         -29.26         -24.00           77.00         -27.26         -24.00           78.00         -25.41         -24.00           79.00         -25.63         -24.00           80.00         -25.02         -24.00           81.00         -24.19         -24.00           82.00         -24.74         -24.00           83.00         -26.99         -24.00           84.00         -26.70         -24.00           85.00         -26.02         -24.00           86.00         -26.48         -14.00           87.00         -29.67         -14.00           88.00         -35.14         -14.00	75.00			
77.00         -27.26         -24.00           78.00         -25.41         -24.00           79.00         -25.63         -24.00           80.00         -25.02         -24.00           81.00         -24.19         -24.00           82.00         -24.74         -24.00           83.00         -26.99         -24.00           84.00         -26.70         -24.00           85.00         -26.02         -24.00           86.00         -26.48         -14.00           87.00         -29.67         -14.00           88.00         -35.14         -14.00	76.00			
78.00         -25.41         -24.00           79.00         -25.63         -24.00           80.00         -25.02         -24.00           81.00         -24.19         -24.00           82.00         -24.74         -24.00           83.00         -26.99         -24.00           84.00         -26.70         -24.00           85.00         -26.02         -24.00           86.00         -26.48         -14.00           87.00         -29.67         -14.00           88.00         -35.14         -14.00	77.00			
79.00         -25.63         -24.00           80.00         -25.02         -24.00           81.00         -24.19         -24.00           82.00         -24.74         -24.00           83.00         -26.99         -24.00           84.00         -26.70         -24.00           85.00         -26.02         -24.00           86.00         -26.48         -14.00           87.00         -29.67         -14.00           88.00         -35.14         -14.00	78.00			
80.00     -25.02     -24.00       81.00     -24.19     -24.00       82.00     -24.74     -24.00       83.00     -26.99     -24.00       84.00     -26.70     -24.00       85.00     -26.02     -24.00       86.00     -26.48     -14.00       87.00     -29.67     -14.00       88.00     -35.14     -14.00	79.00			
81.00     -24.19     -24.00       82.00     -24.74     -24.00       83.00     -26.99     -24.00       84.00     -26.70     -24.00       85.00     -26.02     -24.00       86.00     -26.48     -14.00       87.00     -29.67     -14.00       88.00     -35.14     -14.00	80.00			
82.00     -24.74     -24.00       83.00     -26.99     -24.00       84.00     -26.70     -24.00       85.00     -26.02     -24.00       86.00     -26.48     -14.00       87.00     -29.67     -14.00       88.00     -35.14     -14.00				
83.00     -26.99     -24.00       84.00     -26.70     -24.00       85.00     -26.02     -24.00       86.00     -26.48     -14.00       87.00     -29.67     -14.00       88.00     -35.14     -14.00				
84.00     -26.70     -24.00       85.00     -26.02     -24.00       86.00     -26.48     -14.00       87.00     -29.67     -14.00       88.00     -35.14     -14.00			04.00	
85.00     -26.02     -24.00       86.00     -26.48     -14.00       87.00     -29.67     -14.00       88.00     -35.14     -14.00				
86.00     -26.48     -14.00       87.00     -29.67     -14.00       88.00     -35.14     -14.00				
87.00     -29.67     -14.00       88.00     -35.14     -14.00				
88.00 -35.14 -14.00				
14.00				

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## 2.6. Azimuth pattern for Co-pol (-180 $^{\circ}$ ~180 $^{\circ}$ ) 4/4

	E 10.2 GD 11/	110112
Angle	EIRP SD	Mask
(Degree)	(dBW/4kHz)	(dBW/4kHz)
90.00	-29.70	-14.00
91.00	-28.59	-14.00
92.00	-31.85	-14.00
93.00	-33.89	-14.00
94.00	-36.44	-14.00
95.00	-40.89	-14.00
96.00	-38.76	-14.00
97.00	-34.79	-14.00
98.00	-34.02	-14.00
99.00	-34.43	-14.00
100.00	-33.54	-14.00
101.00	-31.51	-14.00
102.00	-34.24	-14.00
103.00	-36.22	-14.00
104.00	-36.37	-14.00
105.00	-34.65	-14.00
106.00	-35.00	-14.00
107.00	-38.72	-14.00
108.00	-37.41	
109.00	-39.87	-14.00 -14.00
110.00	-40.67	-14.00
111.00	-36.74	
112.00	-38.88	-14.00 -14.00
113.00	-48.33	-14.00
114.00	-45.18	-14.00
115.00	-46.73	
116.00	-37.23	-14.00 -14.00
117.00	-40.88	-14.00
118.00	-46.48	
119.00	-54.91	-14.00 -14.00
120.00		
121.00	-53.93 -46.31	-14.00
122.00		-14.00
123.00	-39.36	-14.00
124.00	-39.66	-14.00
125.00	-42.92	-14.00
126.00	-58.90	-14.00
127.00	-45.81	-14.00
	-43.50	-14.00
128.00	-37.58	-14.00
129.00	-38.58	-14.00
130.00	-35.93	-14.00
131.00	-38.03	-14.00
132.00	-41.00	-14.00
133.00	-45.15	-14.00
134.00	-41.22	-14.00

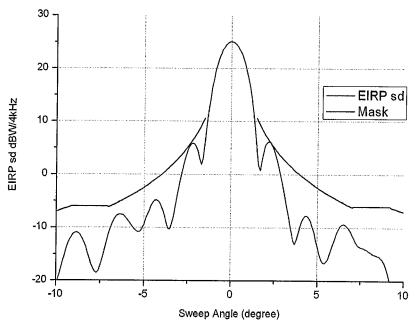
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Angle	EIRP SD	Mask
(Degree)	(dBW/4kHz)	(dBW/4kHz)
135.00	-40.44	-14.00
136.00	-49.59	-14.00
137.00	-40.62	-14.00
138.00	-47.40	-14.00
139.00	-34.65	-14.00
140.00	-46.39	-14.00
141.00	-36.82	-14.00
142.00	-38.53	-14.00
143.00	-36.51	-14.00
144.00	-47.04	-14.00
145.00	-38.50	-14.00
146.00	-38.42	-14.00
147.00	-49.51	-14.00
148.00	-40.54	-14.00
149.00	-53.12	-14.00
150.00	-40.85	-14.00
151.00	-46.80	-14.00
152.00	-38.36	-14.00
153.00	-41.13	-14.00
154.00	-47.15	-14.00
155.00	-40.24	-14.00
156.00	-38.24	-14.00
157.00	-46.18	-14.00
158.00	-61.27	-14.00
159.00	-50.44	-14.00
160.00	-42.30	-14.00
161.00	-43.80	-14.00
162.00	-50.34	-14.00
163.00	-41.02	-14.00
164.00	-42.54	-14.00
165.00	-45.40	-14.00
166.00	-49.88	-14.00
167.00	-39.55	-14.00
168.00	-47.78	-14.00
169.00	-41.96	-14.00
170.00	-38.62	-14.00
171.00	-36.18	-14.00
172.00	-42.18	-14.00
173.00	-37.75	-14.00
174.00	-40.72	-14.00
175.00	-40.85	-14.00
176.00	-40.44	-14.00
177.00	-39.43	-14.00
178.00	-36.33	-14.00
179.00	-35.44	-14.00
180.00	-35.62	-14.00
		17.00

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#### 1. EIRP Spectral Density of v110

## 1.1. Azimuth pattern for Co-pol, narrow angle (-10°~10°)



14.25 GHz @ -16.2 dBW/4kHz , 0.7dB Radome Loss

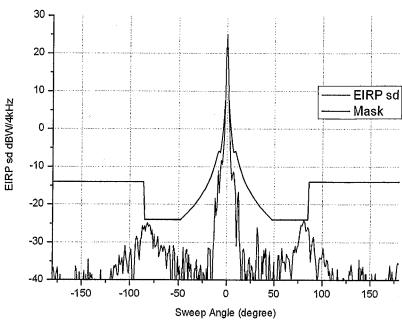
#### • FCC EIRP spectral density regulation

15-25log(θ)	dBW/4kHz for	1.5° ≤ θ ≤ 7.0°
-6	dBW/4kHz for	$7.0^{\circ} < \theta \leq 9.2^{\circ}$
18-25log(θ)	dBW/4kHz for	9.2° < θ ≤ 48°
-24	dBW/4kHz for	<b>48° &lt; θ ≤ 85</b> °
-14	dBW/4kHz for	85° < θ ≤ 180°

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### 1.2. Azimuth pattern for Co-pol, wide angle (-180°~180°)



14.25 GHz @ -16.2 dBW/4kHz , 0.7dB Radome Loss

#### • FCC EIRP spectral density regulation

15-25log(θ)	dBW/4kHz for	$1.5^{\circ} \leq \theta \leq 7.0^{\circ}$
-6	dBW/4kHz for	$7.0^{\circ} < \theta \leq 9.2^{\circ}$
18-25log( <del>θ</del> )	dBW/4kHz for	9.2° < 0 ≤ 48°
-24	dBW/4kHz for	<b>48</b> ° < θ ≤ <b>85</b> °
-14	dBW/4kHz for	<b>85° &lt; θ ≤ 180°</b>

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#### 2.9. Elevation pattern for Co-pol (0°~30°) 1/3

14.25GHz@ -16.2 dBW/ 4kHz						
Angle	EIRP SD	Mask				
(Degree)	(dBW/4kHz)	(dBW/4kHz)				
0.00	25.10					
0.10	24.99					
0.20	24.72					
0.30	24.30					
0.40	23.78					
0.50	23.07					
0.60	22.17					
0.70	21.01					
0.80	19.60					
0.90	18.07					
1.00	16.14					
1.10	13.89					
1.20	10.94					
1.30	6.76					
1.40	0.84					
1.50	-8.81					
1.60	-3.17					
1.70	1.55					
1.80	3.80					
1.90	4.76					
2.00	4.98					
2.10	4.56					
2.20	3.59					
2.30	1.93					
2.40	-0.32					
2.50	-3.42					
2.60	-7.94					
2.70	-13.93					
2.80	-13.64					
2.90	-9.49	0.07				
3.00	-7.31	6.07				
3.10	-6.45	5.72				
3.20	-6.63	5.37				
3.30	-7.83	5.04				
3.40	-9.98	4.71				
3.50	-13.54	4.40				
3.60	-17.19	4.09				
3.70	-14.54	3.79				
3.80	-10.45	3.51				
3.90	-7.81	3.22				
4.00	-6.10	2.95				
4.10	-5.01	2.68				
4.20	-4.37	2.42				
4.30	-4.16	2.16				
4.40	-4.32	1.91				
4.50	-4.85	1.67				
4.60	-5.81	1.43				
4.70	-7.21	1.20				
4.80	-8.88	0.97				
4.80	-10.70	0.75				
	-12.64	0.73				
5.00	-12.04	0.00				

Angle	EIRP SD	Mask	
(Degree)	(dBW/4kHz)	(dBW/4kHz)	
5.10	-14.51	0.31	
5.20	-16.41	0.10	
5.30	-17.96	-0.11	
5.40	-19.09	-0.31	
5.50	-19.40	-0.51	
5.60	-18.27	-0.70	
5.70	-16.34	-0.90	
5.80	-14.41	-1.09	
5.90	-12.67	-1.27	
6.00	-11.19	-1.45	
6.10	-10.14	-1.63	
6.20	-9.25	-1.81	
6.30	-8.86	-1.98	
6.40	-8.88	-2.15	
6.50	-9.21	-2.32	
6.60	-9.85	-2.49	
6.70	-10.82	-2.65	
6.80	-12.02	-2.81	
6.90	-13.48	-2.97	
7.00	-14.76	-3.13	
7.10	-15.30	-3.28	
7.20	-14.91	-3.43	
7.30	-14.11	-3.58	
7.40	-13.40	-3.73	
7.50	-13.02	-3.88	
7.60	-13.01	-4.02	
7.70	-13.27	-4.16	
7.80	-13.70	-4.30	
7.90	-14.53	-4.44	
8.00	-16.13	-4.58	
8.10	-18.48	-4.71	
8.20	-21.47	-4.85	
8.30	-23.65	-4.98	
8.40	-23.69	-5.11	
8.50	-22.73	-5.24	
8.60	-21.70	-5.36	
8.70	-20.97	-5.49	
8.80	-20.81	-5.61	
8.90	-21.35	-5.73	
9.00	-22.91	-5.86	
9.10	-25.83	-5.98	
9.20	-30.21	-6.09	
9.30	-37.29	-6.21	
9.40	-41.80	-6.33	
9.50	-30.27	-6.44	
9.60	-25.26	-6.56	
9.70	-23.13	-6.67	
9.80	-22.50	-6.78	
9.90	-22.94	-6.89	
10.00	-23.89	-7.00	

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#### 2.10. Elevation pattern for Co-pol (0°~30°) 2/3

14.2301120		4802
Angle	EIRP SD	Mask
(Degree)	(dBW/4kHz)	(dBW/4kHz)
10.10	-25.10	-7.11
10.20	-27.27	-7.22
10.30	-29.89	-7.32
10.40	-31.06	-7.43
10.50	-28.99	-7.53
10.60	<b>-</b> 26.09	-7.63
10.70	-24.27	-7.73
10.80	-23.29	-7.84
10.90	-22.83	-7.94
11.00	-22.99	-8.03
11.10	-23.60	-8.13
11.20	-25.01	-8.23
11.30	-26.84	-8.33
11.40	-27.79	-8.42
11.50	-26.73	-8.52
11.60	-24.32	-8.61
11.70	-22.16	-8.70
11.80	-20.57	-8.80
11.90	-19.86	-8.89
12.00	-19.72	-8.98
12.10	-19.91	-9.07
12.20	-20.51	-9.16
12.30	-21.47	-9.25
12.40	-23.24	-9.34
12.50	-26.54	-9.42
12.60	-31.26	-9.51
12.70	-32.43	-9.60
12.80	-28.23	-9.68
12.90	-24.50	-9.76
13.00	-22.09	-9.85
13.10	-20.44	-9.93
13.20	-19.42	-10.01
13.30	-19.33	-10.10
13.40	-19.74	-10.18
13.50	-20.34	-10.26
13.60	-21.18	-10.34
13.70	-22.52	-10.42
13.80	-24.46	-10.50
13.90	-27.58	-10.58
14.00	-33.33	-10.65
14.10	-45.69	-10.73
14.20	-44.47	-10.81
14.30	-37.81	-10.88
14.40	-34.71	-10.96
14.50	-32.12	-11.03
14.60	-31.30	-11.11
14.70	-31.65	-11.18
14.70	-31.05	-11.16
14.90	-32.34	-11.33
15.00		-11.40
15.00	-30.36	-11.40

Angle	EIRP SD	Mask
(Degree)	(dBW/4kHz)	(dBW/4kHz)
15.10	-28.57	-11.47
15.20	-26.43	-11.55
15.30	-24.62	-11.62
15.40	-23.71	-11.69
15.50	-23.63	-11.76
15.60	-23.93	-11.83
15.70	-24.80	-11.90
15.80	-26.11	-11.97
15.90	-27.82	-12.03
16.00	-31.50	-12.10
16.10	-37.71	-12.17
16.20	-45.48	-12.24
16.30	-37.87	-12.30
16.40	-32.93	-12.37
16.50	-29.45	-12.44
16.60	-27.55	-12.50
16.70	-26.75	-12.57
16.80	-26.85	-12.63
16.90	-28.35	-12.70
17.00	-31.28	-12.76
17.10	-34.34	-12.82
17.20	-34.04	-12.89
17.30	-32.70	-12.95
17.40	-30.89	-13.01
17.50	-28.10	-13.08
17.60	-25.68	-13.14
17.70	-23.85	-13.20
17.80	-22.75	-13.26
17.90	-22.26	-13.32
18.00	-22.37	-13.38
18.10	-22.76	-13.44
18.20	-23.24	-13.50
18.30	-23.62	-13.56
18.40	-24.01	-13.62
18.50	-24.29	-13.68
18.60	-24.28	-13.74
18.70	-24.26	-13.80
18.80	-23.94	-13.85
18.90	-23.47	-13.91
19.00	-23.49	-13.97
19.10	-24.07	-14.03
19.20	-24.62	-14.08
19.30	-25.13	-14.14
19.40	-25.81	-14.20
19.50	-27.18	-14.25
19.60	-30.00	-14.31
19.70	-35.60	-14.36
19.80	-53.51	-14.42
19.90	-37.20	-14.47
20.00	-32.94	-14.53
	02.04	1-7.00

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## 2.11. Elevation pattern for Co-pol (0 $^{\circ}$ ~30 $^{\circ}$ ) 3/3

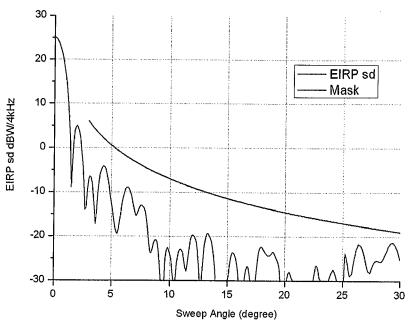
17.230112	· · · · · · · · · · · · · · · · · · ·	AKITZ
Angle	EIRP SD	Mask
(Degree)	(dBW/4kHz)	(dBW/4kHz)
20.10	-30.99	-14.58
20.20	-29.55	-14.63
20.30	-28.26	-14.69
20.40	-27.97	-14.74
20.50	-28.46	-14.79
20.60	-29.38	-14.85
20.70	-29.97	-14.90
20.80	-30.49	-14.95
20.90	-31.77	-15.00
21.00	-34.62	-15.06
21.10	-38.64	-15.11
21.20	-36.16	-15.16
21.30	-33.26	-15.21
21.40	-32.48	-15.26
21.50	-32.72	-15.31
21.60	-33.13	-15.36
21.70	-33.45	-15.41
21.80	-34.64	-15.46
21.90	-35.35	-15.51
22.00	-35.61	-15.56
22.10	-33.95	-15.61
22.20	-32.44	-15.66
22.30	-31.52	-15.71
22.40	-31.03	-15.76
22.50	-29.30	-15.80
22.60	-27.54	-15.85
22.70	-26.57	-15.90
22.80	-26.71	-15.95
22.90	-27.82	-16.00
23.00	-29.30	-16.04
23.10	-29.83	-16.09
23.20	-30.86	-16.14
23.30	-32.71	-16.18
23.40	-33.45	-16.23
23.50	-32.62	-16.28
23.60	-31.77	-16.32
23.70	-30.91	-16.37
23.80	-29.81	-16.41
23.90	-28.84	-16.46
24.00	-28.29	-16.51
24.10	-27.71	-16.55
24.20	-27.43	-16.60
24.30	-27.98	-16.64
24.40	-28.89	-16.68
24.50	-30.07	-16.73
24.60	-31.68	-16.77
24.70	-33.19	-16.82
24.80	-34.69	-16.86
24.90	-35.73	-16.90
25.00	-36.18	-16.95
	55.15	10.00

Angle	EIRP SD	N. C
		Mask
(Degree) 25.10	(dBW/4kHz)	(dBW/4kHz)
25.20		-16.99
25.30		
25.40		-17.08
25.50		-17.12 -17.16
25.60		-17.16
25.70		<del></del>
25.80		-17.25
25.90		-17.29
26.00		-17.33
26.10		-17.37
		-17.42
26.20	-22.89	-17.46
26.30 26.40	-22.28	-17.50
	-21.70	-17.54
26.50 26.60	-21.82	-17.58
	-21.93	-17.62
26.70	-22.53	-17.66
26.80	-23.17	-17.70
26.90	-24.37	-17.74
27.00 27.10	-25.75	-17.78
	-26.70	-17.82
27.20	-27.77	-17.86
27.30	-27.93	-17.90
27.40	-28.09	-17.94
27.50	-27.32	-17.98
27.60	-26.60	-18.02
27.70	-26.09	-18.06
27.80	-25.61	-18.10
27.90	-25.47	-18.14
28.00	-25.34	-18.18
28.10	-25.46	-18.22
28.20	-25.58	-18.26
28.30	-25.60	-18.29
28.40	-25.62	-18.33
28.50 28.60	-25.17	-18.37
28.70	-24.74	-18.41
	-24.07	-18.45
28.80	-23.44	-18.48
28.90 29.00	-22.76	-18.52
29.10	-22.13	-18.56
29.10	-21.75	-18.60
29.20	-21.39	-18.63
29.40	-21.36	-18.67
	-21.32	<u>-18.71</u>
29.50 29.60	-21.63	-18.75
29.70	-21.95	-18.78
	-22.57	-18.82
29.80	-23.24	-18.86
29.90	-24.15	-18.89
30.00	-25.16	-18.93

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### 1.4. Elevation pattern for Co-pol, narrow angle (0°~30°)



14.25 GHz @ -16.2 dBW/4kHz , 0.7dB Radome Loss

#### • FCC EIRP spectral density regulation

18-25log(θ)	dBW/4kHz fo	or 3.0° ≤ θ ≤ 48°
-24	dBW/4kHz fo	or 48° < θ ≤ 85°
-14	dBW/4kHz fo	or 85° < θ ≤ 180°

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## 2.7. Azimuth pattern for Cross-pol, (- $10^{\circ}$ ~ $10^{\circ}$ ) 1/2

Angle (Degree)         EIRP SD (dBW/4kHz)         Mask (dBW/4kHz)           -10.00         -20.59         -7.00           -9.90         -19.66         -6.89           -9.80         -18.73         -6.78           -9.70         -17.29         -6.67           -9.60         -16.18         -6.56           -9.50         -15.00         -6.44           -9.40         -13.82         -6.33           -9.30         -12.77         -6.21           -9.20         -12.13         -6.09           -9.10         -11.59         -5.98           -9.00         -11.16         -6.00           -8.90         -10.96         -6.00           -8.80         -10.94         -6.00           -8.80         -11.47         -6.00           -8.60         -11.47         -6.00           -8.60         -11.47         -6.00           -8.40         -12.78         -6.00           -8.40         -12.78         -6.00           -8.40         -12.78         -6.00           -8.20         -14.76         -6.00           -8.20         -14.76         -6.00           -8.00         -16.92 <th></th> <th>@ -16.2 aBW/</th> <th>4KHZ</th>		@ -16.2 aBW/	4KHZ
-10.00	Angle		Mask
-9.90         -19.66         -6.89           -9.80         -18.73         -6.78           -9.70         -17.29         -6.67           -9.60         -16.18         -6.56           -9.50         -15.00         -6.44           -9.40         -13.82         -6.33           -9.30         -12.77         -6.21           -9.20         -12.13         -6.09           -9.10         -11.59         -5.98           -9.00         -11.16         -6.00           -8.90         -10.96         -6.00           -8.80         -10.94         -6.00           -8.80         -10.94         -6.00           -8.60         -11.47         -6.00           -8.60         -11.47         -6.00           -8.40         -12.78         -6.00           -8.30         -13.60         -6.00           -8.20         -14.76         -6.00           -8.20         -14.76         -6.00           -8.10         -15.79         -6.00           -7.90         -17.72         -6.00           -7.90         -17.72         -6.00           -7.50         -18.46         -6.00 <td></td> <td>(dBW/4kHz)</td> <td>(dBW/4kHz)</td>		(dBW/4kHz)	(dBW/4kHz)
-9.80         -18.73         -6.78           -9.70         -17.29         -6.67           -9.60         -16.18         -6.56           -9.50         -15.00         -6.44           -9.40         -13.82         -6.33           -9.30         -12.77         -6.21           -9.20         -12.13         -6.09           -9.10         -11.59         -5.98           -9.00         -11.16         -6.00           -8.90         -10.96         -6.00           -8.80         -10.94         -6.00           -8.80         -10.94         -6.00           -8.60         -11.47         -6.00           -8.60         -11.47         -6.00           -8.40         -12.78         -6.00           -8.30         -13.60         -6.00           -8.20         -14.76         -6.00           -8.20         -14.76         -6.00           -8.10         -15.79         -6.00           -8.20         -14.76         -6.00           -7.90         -17.72         -6.00           -7.90         -17.72         -6.00           -7.50         -17.32         -6.00 <td>-10.00</td> <td>-20.59</td> <td></td>	-10.00	-20.59	
-9.70	-9.90	-19.66	-6.89
-9.70	-9.80	-18.73	-6.78
-9.60	-9.70	-17.29	
-9.50         -15.00         -6.44           -9.40         -13.82         -6.33           -9.30         -12.77         -6.21           -9.20         -12.13         -6.09           -9.10         -11.59         -5.98           -9.00         -11.16         -6.00           -8.90         -10.96         -6.00           -8.80         -10.94         -6.00           -8.70         -11.10         -6.00           -8.60         -11.47         -6.00           -8.60         -11.47         -6.00           -8.50         -12.09         -6.00           -8.40         -12.78         -6.00           -8.30         -13.60         -6.00           -8.20         -14.76         -6.00           -8.10         -15.79         -6.00           -7.90         -17.72         -6.00           -7.90         -17.72         -6.00           -7.80         -18.27         -6.00           -7.50         -17.32         -6.00           -7.50         -17.32         -6.00           -7.30         -15.07         -6.00           -7.20         -13.51         -6.00 <td>-9.60</td> <td>-16.18</td> <td></td>	-9.60	-16.18	
-9.40 -13.82 -6.33 -9.30 -12.77 -6.21 -9.20 -12.13 -6.09 -9.10 -11.59 -5.98 -9.00 -11.16 -6.00 -8.90 -10.96 -6.00 -8.80 -10.94 -6.00 -8.70 -11.10 -6.00 -8.60 -11.47 -6.00 -8.60 -11.47 -6.00 -8.30 -12.09 -6.00 -8.30 -13.60 -6.00 -8.20 -14.76 -6.00 -8.10 -15.79 -6.00 -8.00 -16.92 -6.00 -7.90 -17.72 -6.00 -7.80 -18.27 -6.00 -7.80 -18.27 -6.00 -7.70 -18.46 -6.00 -7.50 -17.32 -6.00 -7.30 -15.07 -6.00 -7.30 -15.07 -6.00 -7.30 -15.07 -6.00 -7.20 -13.51 -6.00 -7.20 -13.51 -6.00 -7.10 -12.28 -6.00 -7.00 -10.95 -6.13 -6.90 -10.04 -5.97 -6.80 -9.07 -5.81 -6.70 -8.46 -5.65 -6.60 -7.93 -5.81 -6.70 -8.46 -5.65 -6.60 -7.93 -5.49 -6.50 -7.62 -5.32 -6.40 -7.52 -5.15 -6.30 -7.50 -1.04 -7.50 -1.04 -4.81 -6.10 -7.89 -4.63 -6.00 -8.31 -4.45 -5.90 -8.71 -4.27 -5.80 -9.20 -4.09 -5.70 -9.61 -3.90 -5.50 -10.43 -3.51 -5.30 -10.81 -3.11 -5.20 -10.65 -2.90			
-9.30         -12.77         -6.21           -9.20         -12.13         -6.09           -9.10         -11.59         -5.98           -9.00         -11.16         -6.00           -8.90         -10.96         -6.00           -8.80         -10.94         -6.00           -8.60         -11.47         -6.00           -8.50         -12.09         -6.00           -8.40         -12.78         -6.00           -8.30         -13.60         -6.00           -8.20         -14.76         -6.00           -8.10         -15.79         -6.00           -8.00         -16.92         -6.00           -8.00         -16.92         -6.00           -7.90         -17.72         -6.00           -7.80         -18.27         -6.00           -7.80         -18.19         -6.00           -7.50         -17.32         -6.00           -7.40         -16.33         -6.00           -7.40         -16.33         -6.00           -7.20         -13.51         -6.00           -7.00         -10.95         -6.13           -6.90         -10.04         -5.97 <td>-9.40</td> <td></td> <td></td>	-9.40		
-9.20         -12.13         -6.09           -9.10         -11.59         -5.98           -9.00         -11.16         -6.00           -8.90         -10.96         -6.00           -8.80         -10.94         -6.00           -8.70         -11.10         -6.00           -8.60         -11.47         -6.00           -8.50         -12.09         -6.00           -8.40         -12.78         -6.00           -8.30         -13.60         -6.00           -8.20         -14.76         -6.00           -8.10         -15.79         -6.00           -8.00         -16.92         -6.00           -7.90         -17.72         -6.00           -7.80         -18.27         -6.00           -7.80         -18.19         -6.00           -7.50         -17.32         -6.00           -7.50         -17.32         -6.00           -7.40         -16.33         -6.00           -7.20         -13.51         -6.00           -7.10         -12.28         -6.00           -7.00         -10.95         -6.13           -6.90         -10.04         -5.97 <td>-9.30</td> <td></td> <td></td>	-9.30		
-9.10         -11.59         -5.98           -9.00         -11.16         -6.00           -8.90         -10.96         -6.00           -8.80         -10.94         -6.00           -8.70         -11.10         -6.00           -8.60         -11.47         -6.00           -8.50         -12.09         -6.00           -8.40         -12.78         -6.00           -8.30         -13.60         -6.00           -8.20         -14.76         -6.00           -8.10         -15.79         -6.00           -8.00         -16.92         -6.00           -8.00         -16.92         -6.00           -7.90         -17.72         -6.00           -7.80         -18.27         -6.00           -7.80         -18.27         -6.00           -7.50         -17.32         -6.00           -7.50         -17.32         -6.00           -7.40         -16.33         -6.00           -7.30         -15.07         -6.00           -7.20         -13.51         -6.00           -7.10         -12.28         -6.00           -7.00         -10.95         -6.13 <td>-9.20</td> <td></td> <td></td>	-9.20		
-9.00         -11.16         -6.00           -8.90         -10.96         -6.00           -8.80         -10.94         -6.00           -8.70         -11.10         -6.00           -8.60         -11.47         -6.00           -8.50         -12.09         -6.00           -8.40         -12.78         -6.00           -8.30         -13.60         -6.00           -8.10         -15.79         -6.00           -8.10         -15.79         -6.00           -8.00         -16.92         -6.00           -7.90         -17.72         -6.00           -7.80         -18.27         -6.00           -7.80         -18.19         -6.00           -7.70         -18.46         -6.00           -7.50         -17.32         -6.00           -7.40         -16.33         -6.00           -7.40         -16.33         -6.00           -7.20         -13.51         -6.00           -7.20         -13.51         -6.00           -7.00         -10.95         -6.13           -6.90         -10.04         -5.97           -6.80         -9.07         -5.81 <td>-9.10</td> <td></td> <td></td>	-9.10		
-8.90         -10.96         -6.00           -8.80         -10.94         -6.00           -8.70         -11.10         -6.00           -8.60         -11.47         -6.00           -8.50         -12.09         -6.00           -8.40         -12.78         -6.00           -8.30         -13.60         -6.00           -8.20         -14.76         -6.00           -8.10         -15.79         -6.00           -8.00         -16.92         -6.00           -7.90         -17.72         -6.00           -7.80         -18.27         -6.00           -7.70         -18.46         -6.00           -7.60         -18.19         -6.00           -7.50         -17.32         -6.00           -7.40         -16.33         -6.00           -7.30         -15.07         -6.00           -7.20         -13.51         -6.00           -7.20         -13.51         -6.00           -7.00         -10.95         -6.13           -6.90         -10.04         -5.97           -6.80         -9.07         -5.81           -6.70         -8.46         -5.65	-9.00		
-8.80			
-8.70         -11.10         -6.00           -8.60         -11.47         -6.00           -8.50         -12.09         -6.00           -8.40         -12.78         -6.00           -8.30         -13.60         -6.00           -8.20         -14.76         -6.00           -8.10         -15.79         -6.00           -8.00         -16.92         -6.00           -7.90         -17.72         -6.00           -7.80         -18.27         -6.00           -7.80         -18.27         -6.00           -7.70         -18.46         -6.00           -7.50         -17.32         -6.00           -7.50         -17.32         -6.00           -7.40         -16.33         -6.00           -7.30         -15.07         -6.00           -7.20         -13.51         -6.00           -7.10         -12.28         -6.00           -7.00         -10.95         -6.13           -6.90         -10.04         -5.97           -6.80         -9.07         -5.81           -6.70         -8.46         -5.65           -6.60         -7.93         -5.49			
-8.60 -11.47 -6.00 -8.50 -12.09 -6.00 -8.40 -12.78 -6.00 -8.30 -13.60 -6.00 -8.20 -14.76 -6.00 -8.10 -15.79 -6.00 -8.00 -16.92 -6.00 -7.90 -17.72 -6.00 -7.80 -18.27 -6.00 -7.60 -18.19 -6.00 -7.50 -17.32 -6.00 -7.40 -16.33 -6.00 -7.20 -13.51 -6.00 -7.10 -12.28 -6.00 -7.00 -10.95 -6.13 -6.90 -10.04 -5.97 -6.80 -9.07 -5.81 -6.70 -8.46 -5.65 -6.60 -7.93 -5.49 -6.50 -7.62 -5.32 -6.40 -7.52 -5.15 -6.30 -7.50 -4.98 -6.20 -7.64 -4.81 -6.10 -7.89 -4.63 -6.00 -8.31 -4.45 -5.90 -9.61 -3.90 -5.60 -10.11 -3.70 -5.50 -10.43 -3.51 -5.40 -10.75 -3.31 -5.30 -10.81 -3.11 -5.20 -10.65 -2.90			
-8.50			
-8.40         -12.78         -6.00           -8.30         -13.60         -6.00           -8.20         -14.76         -6.00           -8.10         -15.79         -6.00           -8.00         -16.92         -6.00           -7.90         -17.72         -6.00           -7.80         -18.27         -6.00           -7.70         -18.46         -6.00           -7.60         -18.19         -6.00           -7.50         -17.32         -6.00           -7.40         -16.33         -6.00           -7.30         -15.07         -6.00           -7.20         -13.51         -6.00           -7.10         -12.28         -6.00           -7.00         -10.95         -6.13           -6.90         -10.04         -5.97           -6.80         -9.07         -5.81           -6.70         -8.46         -5.65           -6.60         -7.93         -5.49           -6.50         -7.62         -5.32           -6.40         -7.52         -5.15           -6.30         -7.50         -4.98           -6.20         -7.64         -4.81			
-8.30			
-8.20         -14.76         -6.00           -8.10         -15.79         -6.00           -8.00         -16.92         -6.00           -7.90         -17.72         -6.00           -7.80         -18.27         -6.00           -7.70         -18.46         -6.00           -7.60         -18.19         -6.00           -7.50         -17.32         -6.00           -7.40         -16.33         -6.00           -7.30         -15.07         -6.00           -7.20         -13.51         -6.00           -7.10         -12.28         -6.00           -7.00         -10.95         -6.13           -6.90         -10.04         -5.97           -6.80         -9.07         -5.81           -6.70         -8.46         -5.65           -6.60         -7.93         -5.49           -8.50         -7.62         -5.32           -6.40         -7.52         -5.15           -6.30         -7.50         -4.98           -6.20         -7.64         -4.81           -6.10         -7.89         -4.63           -5.90         -8.71         -4.27 <t< td=""><td></td><td></td><td></td></t<>			
-8.10         -15.79         -6.00           -8.00         -16.92         -6.00           -7.90         -17.72         -6.00           -7.80         -18.27         -6.00           -7.70         -18.46         -6.00           -7.60         -18.19         -6.00           -7.50         -17.32         -6.00           -7.40         -16.33         -6.00           -7.30         -15.07         -6.00           -7.20         -13.51         -6.00           -7.10         -12.28         -6.00           -7.00         -10.95         -6.13           -6.90         -10.04         -5.97           -6.80         -9.07         -5.81           -6.70         -8.46         -5.65           -6.60         -7.93         -5.49           -6.50         -7.62         -5.32           -6.40         -7.52         -5.15           -6.30         -7.50         -4.98           -6.20         -7.64         -4.81           -6.10         -7.89         -4.63           -5.90         -8.71         -4.27           -5.80         -9.20         -4.09 <tr< td=""><td></td><td></td><td></td></tr<>			
-8.00         -16.92         -6.00           -7.90         -17.72         -6.00           -7.80         -18.27         -6.00           -7.70         -18.46         -6.00           -7.60         -18.19         -6.00           -7.50         -17.32         -6.00           -7.40         -16.33         -6.00           -7.30         -15.07         -6.00           -7.20         -13.51         -6.00           -7.10         -12.28         -6.00           -7.00         -10.95         -6.13           -6.90         -10.04         -5.97           -6.80         -9.07         -5.81           -6.70         -8.46         -5.65           -6.60         -7.93         -5.49           -6.50         -7.62         -5.32           -6.40         -7.52         -5.15           -6.30         -7.50         -4.98           -6.20         -7.64         -4.81           -6.10         -7.89         -4.63           -5.90         -8.71         -4.27           -5.80         -9.20         -4.09           -5.70         -9.61         -3.90	-8.10	-15.79	
-7.90         -17.72         -6.00           -7.80         -18.27         -6.00           -7.70         -18.46         -6.00           -7.60         -18.19         -6.00           -7.50         -17.32         -6.00           -7.40         -16.33         -6.00           -7.30         -15.07         -6.00           -7.20         -13.51         -6.00           -7.10         -12.28         -6.00           -7.00         -10.95         -6.13           -6.90         -10.04         -5.97           -6.80         -9.07         -5.81           -6.70         -8.46         -5.65           -6.60         -7.93         -5.49           -6.50         -7.62         -5.32           -6.40         -7.52         -5.15           -6.30         -7.50         -4.98           -6.20         -7.64         -4.81           -6.10         -7.89         -4.63           -6.00         -8.31         -4.45           -5.90         -8.71         -4.27           -5.80         -9.20         -4.09           -5.70         -9.61         -3.90			
-7.80         -18.27         -6.00           -7.70         -18.46         -6.00           -7.60         -18.19         -6.00           -7.50         -17.32         -6.00           -7.40         -16.33         -6.00           -7.30         -15.07         -6.00           -7.20         -13.51         -6.00           -7.10         -12.28         -6.00           -7.00         -10.95         -6.13           -6.90         -10.04         -5.97           -6.80         -9.07         -5.81           -6.70         -8.46         -5.65           -6.60         -7.93         -5.49           -6.50         -7.62         -5.32           -6.40         -7.52         -5.15           -6.30         -7.50         -4.98           -6.20         -7.64         -4.81           -6.10         -7.89         -4.63           -5.90         -8.71         -4.27           -5.80         -9.20         -4.09           -5.70         -9.61         -3.90           -5.60         -10.11         -3.70           -5.50         -10.43         -3.51			
-7.70         -18.46         -6.00           -7.60         -18.19         -6.00           -7.50         -17.32         -6.00           -7.40         -16.33         -6.00           -7.30         -15.07         -6.00           -7.20         -13.51         -6.00           -7.10         -12.28         -6.00           -7.00         -10.95         -6.13           -6.90         -10.04         -5.97           -6.80         -9.07         -5.81           -6.70         -8.46         -5.65           -6.60         -7.93         -5.49           -6.50         -7.62         -5.32           -6.40         -7.52         -5.15           -6.30         -7.50         -4.98           -6.20         -7.64         -4.81           -6.10         -7.89         -4.63           -5.90         -8.71         -4.27           -5.80         -9.20         -4.09           -5.70         -9.61         -3.90           -5.60         -10.11         -3.70           -5.50         -10.43         -3.51           -5.40         -10.75         -3.31			
-7.60         -18.19         -6.00           -7.50         -17.32         -6.00           -7.40         -16.33         -6.00           -7.30         -15.07         -6.00           -7.20         -13.51         -6.00           -7.10         -12.28         -6.00           -7.00         -10.95         -6.13           -6.90         -10.04         -5.97           -6.80         -9.07         -5.81           -6.70         -8.46         -5.65           -6.60         -7.93         -5.49           -6.50         -7.62         -5.32           -6.40         -7.52         -5.15           -6.30         -7.50         -4.98           -6.20         -7.64         -4.81           -6.10         -7.89         -4.63           -6.00         -8.31         -4.45           -5.90         -8.71         -4.27           -5.80         -9.20         -4.09           -5.70         -9.61         -3.90           -5.60         -10.11         -3.70           -5.50         -10.43         -3.51           -5.40         -10.75         -3.31			
-7.50         -17.32         -6.00           -7.40         -16.33         -6.00           -7.30         -15.07         -6.00           -7.20         -13.51         -6.00           -7.10         -12.28         -6.00           -7.00         -10.95         -6.13           -6.90         -10.04         -5.97           -8.80         -9.07         -5.81           -6.70         -8.46         -5.65           -6.60         -7.93         -5.49           -6.50         -7.62         -5.32           -6.40         -7.52         -5.15           -6.30         -7.50         -4.98           -6.20         -7.64         -4.81           -6.10         -7.89         -4.63           -6.00         -8.31         -4.45           -5.90         -8.71         -4.27           -5.80         -9.20         -4.09           -5.70         -9.61         -3.90           -5.60         -10.11         -3.70           -5.50         -10.43         -3.51           -5.40         -10.75         -3.31           -5.30         -10.65         -2.90	-7.60		
-7.30         -15.07         -6.00           -7.20         -13.51         -6.00           -7.10         -12.28         -6.00           -7.00         -10.95         -6.13           -6.90         -10.04         -5.97           -8.80         -9.07         -5.81           -6.70         -8.46         -5.65           -6.60         -7.93         -5.49           -6.50         -7.62         -5.32           -6.40         -7.52         -5.15           -6.30         -7.50         -4.98           -6.20         -7.64         -4.81           -6.10         -7.89         -4.63           -6.00         -8.31         -4.45           -5.90         -8.71         -4.27           -5.80         -9.20         -4.09           -5.70         -9.61         -3.90           -5.60         -10.11         -3.70           -5.50         -10.43         -3.51           -5.40         -10.75         -3.31           -5.30         -10.81         -3.11           -5.20         -10.65         -2.90	-7.50	-17.32	
-7.20         -13.51         -6.00           -7.10         -12.28         -6.00           -7.00         -10.95         -6.13           -6.90         -10.04         -5.97           -6.80         -9.07         -5.81           -6.70         -8.46         -5.65           -6.60         -7.93         -5.49           -6.50         -7.62         -5.32           -6.40         -7.52         -5.15           -6.30         -7.50         -4.98           -6.20         -7.64         -4.81           -6.10         -7.89         -4.63           -6.00         -8.31         -4.45           -5.90         -8.71         -4.27           -5.80         -9.20         -4.09           -5.70         -9.61         -3.90           -5.60         -10.11         -3.70           -5.50         -10.43         -3.51           -5.40         -10.75         -3.31           -5.30         -10.81         -3.11           -5.20         -10.65         -2.90	-7.40	-16.33	-6.00
-7.10         -12.28         -6.00           -7.00         -10.95         -6.13           -6.90         -10.04         -5.97           -6.80         -9.07         -5.81           -6.70         -8.46         -5.65           -6.60         -7.93         -5.49           -6.50         -7.62         -5.32           -6.40         -7.52         -5.15           -6.30         -7.50         -4.98           -6.20         -7.64         -4.81           -6.10         -7.89         -4.63           -6.00         -8.31         -4.45           -5.90         -8.71         -4.27           -5.80         -9.20         -4.09           -5.70         -9.61         -3.90           -5.50         -10.11         -3.70           -5.50         -10.43         -3.51           -5.40         -10.75         -3.31           -5.30         -10.81         -3.11           -5.20         -10.65         -2.90	-7.30		-6.00
-7.00         -10.95         -6.13           -6.90         -10.04         -5.97           -6.80         -9.07         -5.81           -6.70         -8.46         -5.65           -6.60         -7.93         -5.49           -6.50         -7.62         -5.32           -6.40         -7.52         -5.15           -6.30         -7.50         -4.98           -6.20         -7.64         -4.81           -6.10         -7.89         -4.63           -6.00         -8.31         -4.45           -5.90         -8.71         -4.27           -5.80         -9.20         -4.09           -5.70         -9.61         -3.90           -5.60         -10.11         -3.70           -5.50         -10.43         -3.51           -5.40         -10.75         -3.31           -5.30         -10.81         -3.11           -5.20         -10.65         -2.90	-7.20	-13.51	-6.00
-6.90         -10.04         -5.97           -6.80         -9.07         -5.81           -6.70         -8.46         -5.65           -6.60         -7.93         -5.49           -6.50         -7.62         -5.32           -6.40         -7.52         -5.15           -6.30         -7.50         -4.98           -6.20         -7.64         -4.81           -6.10         -7.89         -4.63           -6.00         -8.31         -4.45           -5.90         -8.71         -4.27           -5.80         -9.20         -4.09           -5.70         -9.61         -3.90           -5.50         -10.11         -3.70           -5.50         -10.43         -3.51           -5.40         -10.75         -3.31           -5.30         -10.81         -3.11           -5.20         -10.65         -2.90	-7.10	-12.28	-6.00
-6.80         -9.07         -5.81           -6.70         -8.46         -5.65           -6.60         -7.93         -5.49           -6.50         -7.62         -5.32           -6.40         -7.52         -5.15           -6.30         -7.50         -4.98           -6.20         -7.64         -4.81           -6.10         -7.89         -4.63           -6.00         -8.31         -4.45           -5.90         -8.71         -4.27           -5.80         -9.20         -4.09           -5.70         -9.61         -3.90           -5.60         -10.11         -3.70           -5.50         -10.43         -3.51           -5.40         -10.75         -3.31           -5.30         -10.81         -3.11           -5.20         -10.65         -2.90	-7.00	-10.95	-6.13
-6.70         -8.46         -5.65           -6.60         -7.93         -5.49           -6.50         -7.62         -5.32           -6.40         -7.52         -5.15           -6.30         -7.50         -4.98           -6.20         -7.64         -4.81           -6.10         -7.89         -4.63           -6.00         -8.31         -4.45           -5.90         -8.71         -4.27           -5.80         -9.20         -4.09           -5.70         -9.61         -3.90           -5.50         -10.11         -3.70           -5.50         -10.43         -3.51           -5.40         -10.75         -3.31           -5.30         -10.81         -3.11           -5.20         -10.65         -2.90	-6.90	-10.04	-5.97
-6.60         -7.93         -5.49           -6.50         -7.62         -5.32           -6.40         -7.52         -5.15           -6.30         -7.50         -4.98           -6.20         -7.64         -4.81           -6.10         -7.89         -4.63           -6.00         -8.31         -4.45           -5.90         -8.71         -4.27           -5.80         -9.20         -4.09           -5.70         -9.61         -3.90           -5.60         -10.11         -3.70           -5.50         -10.43         -3.51           -5.40         -10.75         -3.31           -5.30         -10.81         -3.11           -5.20         -10.65         -2.90	-6.80	-9.07	-5.81
-6.50         -7.62         -5.32           -6.40         -7.52         -5.15           -6.30         -7.50         -4.98           -6.20         -7.64         -4.81           -6.10         -7.89         -4.63           -6.00         -8.31         -4.45           -5.90         -8.71         -4.27           -5.80         -9.20         -4.09           -5.70         -9.61         -3.90           -5.60         -10.11         -3.70           -5.50         -10.43         -3.51           -5.40         -10.75         -3.31           -5.30         -10.81         -3.11           -5.20         -10.65         -2.90	-6.70	-8.46	-5.65
-6.40         -7.52         -5.15           -6.30         -7.50         -4.98           -6.20         -7.64         -4.81           -6.10         -7.89         -4.63           -6.00         -8.31         -4.45           -5.90         -8.71         -4.27           -5.80         -9.20         -4.09           -5.70         -9.61         -3.90           -5.60         -10.11         -3.70           -5.50         -10.43         -3.51           -5.40         -10.75         -3.31           -5.30         -10.81         -3.11           -5.20         -10.65         -2.90	-6.60	-7.93	-5.49
-6.30         -7.50         -4.98           -6.20         -7.64         -4.81           -6.10         -7.89         -4.63           -6.00         -8.31         -4.45           -5.90         -8.71         -4.27           -5.80         -9.20         -4.09           -5.70         -9.61         -3.90           -5.60         -10.11         -3.70           -5.50         -10.43         -3.51           -5.40         -10.75         -3.31           -5.30         -10.81         -3.11           -5.20         -10.65         -2.90	-6.50	-7.62	-5.32
-6.20         -7.64         -4.81           -6.10         -7.89         -4.63           -6.00         -8.31         -4.45           -5.90         -8.71         -4.27           -5.80         -9.20         -4.09           -5.70         -9.61         -3.90           -5.60         -10.11         -3.70           -5.50         -10.43         -3.51           -5.40         -10.75         -3.31           -5.30         -10.81         -3.11           -5.20         -10.65         -2.90	-6.40	-7.52	-5.15
-6.10         -7.89         -4.63           -6.00         -8.31         -4.45           -5.90         -8.71         -4.27           -5.80         -9.20         -4.09           -5.70         -9.61         -3.90           -5.60         -10.11         -3.70           -5.50         -10.43         -3.51           -5.40         -10.75         -3.31           -5.30         -10.81         -3.11           -5.20         -10.65         -2.90		-7.50	-4.98
-6.00         -8.31         -4.45           -5.90         -8.71         -4.27           -5.80         -9.20         -4.09           -5.70         -9.61         -3.90           -5.60         -10.11         -3.70           -5.50         -10.43         -3.51           -5.40         -10.75         -3.31           -5.30         -10.81         -3.11           -5.20         -10.65         -2.90	-6.20	-7.64	-4.81
-5.90         -8.71         -4.27           -5.80         -9.20         -4.09           -5.70         -9.61         -3.90           -5.60         -10.11         -3.70           -5.50         -10.43         -3.51           -5.40         -10.75         -3.31           -5.30         -10.81         -3.11           -5.20         -10.65         -2.90		-7.89	-4.63
-5.80         -9.20         -4.09           -5.70         -9.61         -3.90           -5.60         -10.11         -3.70           -5.50         -10.43         -3.51           -5.40         -10.75         -3.31           -5.30         -10.81         -3.11           -5.20         -10.65         -2.90			
-5.70         -9.61         -3.90           -5.60         -10.11         -3.70           -5.50         -10.43         -3.51           -5.40         -10.75         -3.31           -5.30         -10.81         -3.11           -5.20         -10.65         -2.90			
-5.60         -10.11         -3.70           -5.50         -10.43         -3.51           -5.40         -10.75         -3.31           -5.30         -10.81         -3.11           -5.20         -10.65         -2.90			
-5.50         -10.43         -3.51           -5.40         -10.75         -3.31           -5.30         -10.81         -3.11           -5.20         -10.65         -2.90			
-5.40     -10.75     -3.31       -5.30     -10.81     -3.11       -5.20     -10.65     -2.90			
-5.30     -10.81     -3.11       -5.20     -10.65     -2.90			
-5.20 -10.65 -2.90			
-5.10   -10.14   -2.69			
	-5.10	-10.14	-2.69

Angle	EIRP SD	Mask
(Degree)	(dBW/4kHz)	1
-5.00		(dBW/4kHz)
-4.90		-2.47 -2.25
-4.80	-7.58	-2.23
-4.70	-6.76	-1.80
-4.60	-5.92	-1.57
-4.50	-5.38	-1.33
-4.40	-4.96	-1.09
-4.30	-4.85	-0.84
-4.20	-4.98	-0.58
-4.10	-5.30	-0.32
-4.00	-6.04	-0.05
-3.90	-6.89	0.22
-3.80	-7.95	0.51
-3.70	-9.23	0.79
-3.60	-10.17	1.09
-3.50	-10.24	1.40
-3.40	-9.21	1.71
-3.30	-7.87	2.04
-3.20	-6.15	2.37
-3.10	-4.21	2.72
-3.00	-2.64	3.07
-2.90	-0.86	3.44
-2.80	0.56	3.82
-2.70	2.10	4.22
-2.60	3.21	4.63
-2.50	4.35	5.05
-2.40	5.11	5.49
-2.30	5.67	5.96
-2.20	5.87	6.44
-2.10	5.73	6.94
-2.00	5.22	7.47
-1.90	4.34	8.03
-1.80	2.79	8.62
-1.70	1.91	9.24
-1.60	3.03	9.90
-1.50	6.01	10.60
-1.40	9.54	
-1.30	12.10	
-1.20	14.28	
-1.10	16.46	
-1.00	18.05	
-0.90	19.68	
-0.80	20.86	
-0.70	22.00	
-0.60	22.79	
-0.50	23.58	
-0.40	24.10	
-0.30	24.58	
-0.20	24.88	
-0.10	25.07	

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#### 2.8. Azimuth pattern for Cross-pol, (-10°~10°) 2/2

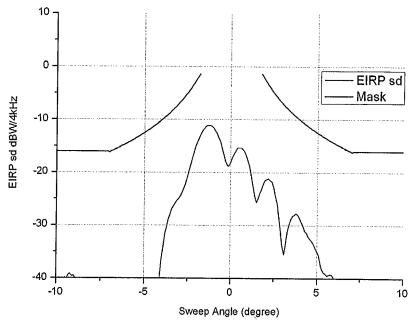
1	IRP SD	
/B \	MANALLES	Mask
	3W/4kHz)	(dBW/4kHz)
0.00	25.12	
0.10	25.06	
0.20	24.85	
0.30	24.57	
0.40	24.07	
0.50	23.55	
0.60	22.90	
0.70	21.93	
0.80	20.94	
0.90	19.57	
1.00	18.14	
1.10	16.26	
1.20	14.28	
1.30	11.53	
1.40	8.67	
1.50	4.63	10.60
1.60	1.64	9.90
1.70	0.77	9.24
1.80	2.56	8.62
1.90	4.22	8.03
2.00	5.47	7.47
2.10	5.99	6.94
2.20	6.14	6.44
2.30	5.95	5.96
2.40	5.34	5.49
2.50	4.61	5.05
2.60	3.67	4.63
2.70	2.33	4.22
2.80	1.16	3.82
2.90	-0.49	3.44
3.00	-1.88	3.07
3.10	-3.70	2.72
3.20	-5.35	2.37
3.30	-7.22	2.04
3.40	-8.83	1.71
3.50	-10.66	1.40
3.60	-12.36	1.09
3.70	-13.05	0.79
3.80	-12.36	0.51
3.90	-11.16	0.22
4.00	-9.73	-0.05
4.10	-8.75	-0.32
4.20	-8.12	-0.58
4.30	-7.77	-0.84
4.40	-7.75	-1.09
4.50	-8.12	-1.33
4.60	-8.64	-1.57
4.70	-9.66	-1.80
4.80	-10.72	-2.03
4.90	-12.19	-2.25

Angle	EIRP SD	Mask
(Degree)	(dBW/4kHz)	(dBW/4kHz)
5.00	-13.50	-2.47
5.10	-14.75	-2.69
5.20	-15.90	-2.90
5.30	-16.48	-3.11
5.40	-16.67	-3.31
5.50	-16.37	-3.51
5.60	-15.92	-3.70
5.70	-15.07	-3.90
5.80	-14.02	-4.09
5.90	-13.07	-4.27
6.00	-12.08	-4.45
6.10	-11.07	-4.63
6.20	-10.36	-4.81
6.30	-9.77	-4.98
6.40	-9.47	
6.50	-9.34	-5.15 -5.32
6.60	-9.34 -9.40	-5.49
6.70	-9.40 -9.69	-5.49 -5.65
	-10.09	
6.80		-5.81
6.90	-10.69	-5.97
7.00 7.10	-11.35	-6.13
	-11.94	-6.00
7.20	-12.64	-6.00
7.30	-13.14	-6.00
7.40	-13.44	-6.00
7.50 7.60	-13.63 13.77	-6.00
	-13.77 -13.84	-6.00 -6.00
7.70 7.80	-13.98	-6.00
7.90		
	-14.13	-6.00
8.00	-14.40	-6.00
8.10	-14.61	-6.00
8.20 8.30	-14.86 -14.99	-6.00
	-14.99	-6.00
8.40		-6.00
8.50 8.60	-15.21 -15.37	-6.00
8.70		-6.00
	-15.66 16.05	-6.00
8.80	-16.05	-6.00
8.90	-16.70	-6.00
9.00	-17.49 19.70	-6.00
9.10	-18.70	-6.00
9.20	-20.04	-6.00
9.30	-22.04	-6.21
9.40	-23.91	-6.33
9.50	-26.65	-6.44
9.60	-29.15	-6.56 6.67
9.70	-31.08	-6.67
9.80	-31.66	-6.78
9.90	-31.69	-6.89
10.00	-30.87	-7.00

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### 1.3. Azimuth pattern for Cross-pol, narrow angle (-10°~10°)



14.25 GHz @ -16.2 dBW/4kHz , 0.7dB Radome Loss

#### • FCC EIRP spectral density regulation

5-25log(θ)	dBW/4kHz for	1.8° ≤ θ ≤ 7.0°
-16	dBW/4kHz for	$7.0^{\circ} < \theta \leq 9.2^{\circ}$

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#### **FCC Declaration of Conformity**

Intellian Technologies, manufactures of stabilized maritime VSAT antenna systems for satellite communication at sea, supplies stabilized maritime VSAT antenna systems to the satellite communication service providers for their ESV (Earth Station on Vessels) networks.

FCC §25.222 defines the provisions for blanket licensing of ESV antennas operation in the Ku-band. It defines the antennas radiation, and each article regulates the followings;

\$25.222 (a)(1)(i)(A): Regulation for Azimuth Direction & Co Polarization \$25.222 (a)(2)(i)(B): Regulation for Other Direction & Co Polarization

§25.222 (a)(1)(i)(C): Regulation for Cross Polarization

Intellian Technologies, Inc. declares that v110 complies with the threshold level as defined in \$25.222(a)(1)(i)(A);, and declares that v110 is in accordance with all defined regulations from \$25.222(a)(1)(i)(B) to \$25.222(a)(1)(i)(C) at the below stated input power spectral density, with an N value of 1.

Product description	Intellian v110, 105cm Ku-band maritime VSAT antenna system
EIRP spectral density limit	-16.2 dBW/ 4KHz

Intellian Technologies, Inc. declares that the above antenna will maintain a pointing error of less than or equal to 0.2 degree under specified ship motion conditions in accordance with the requirements of §25.222 (a)(1)(ii).

Intellian Technologies, Inc. declares that the above antennas will automatically cease the transmission with a mute command to the modem within 100 milliseconds if the target satellite and the axis of the main lobe of the ESV antenna exceeds 0.5 degree and will not resume until such angle is less than or equal to 0.2 degree in accordance with the requirements of §25.222 (a)(1)(iii)

Radiation pattern data is available upon request to verify the conformance.

**Authority:** Steve Cha

/ Director, R&D

Signature:

May 20, 2010

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