

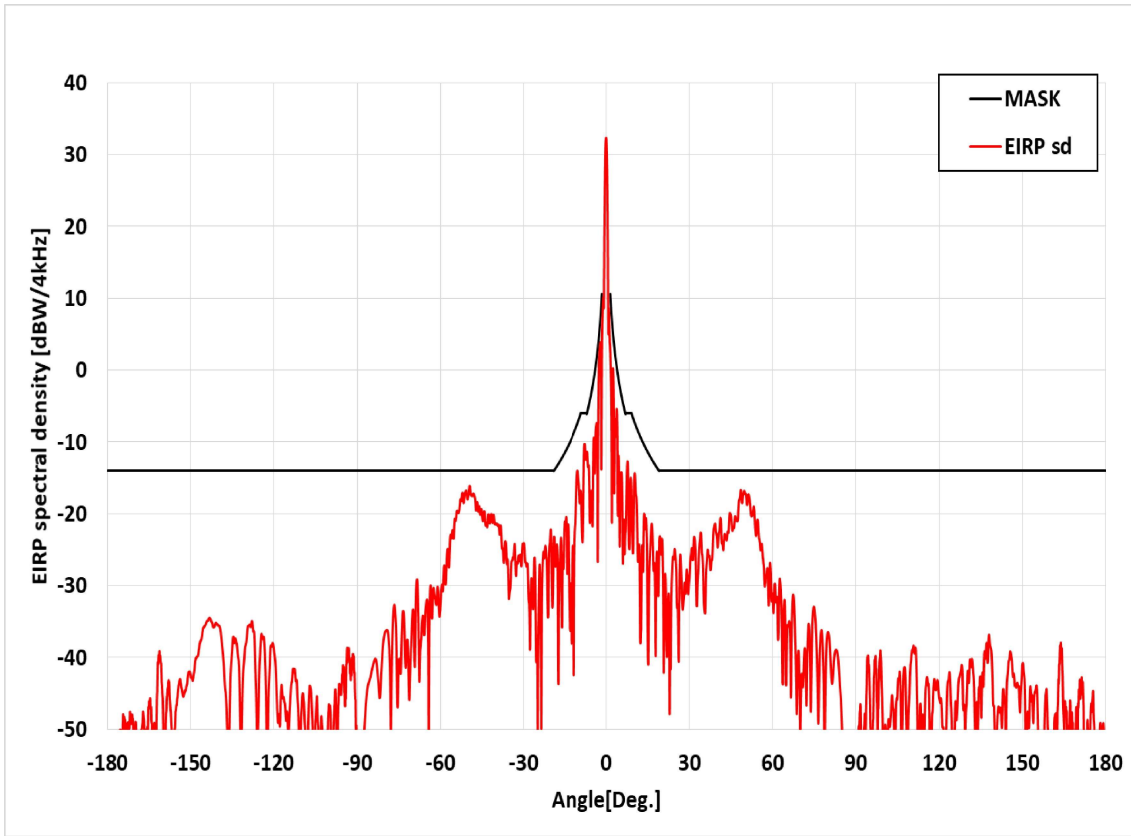
**Exhibit 5A.4 – Plots and Tables with §25.115(g)(1) Information for
Ku-band Antennas**

Exhibit Contains:

Plots and Tables for Intellian V240MTGen2KU antenna.

1. EIRP Spectral Density of v240MT Gen-II Ku-band

1.1. Azimuth Pattern for Co-pol, Wide Angle (-180° ~ 180°)



-15.69 dBW/4kHz Input power spectral density @ f=13.75GHz

- **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(θ)	dBW/4kHz	for	$9.2^\circ < \theta \leq 19.1^\circ$
-14	dBW/4kHz	for	$19.1^\circ < \theta \leq 180^\circ$

The v240MT Gen-II's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -15.69 dBW/ 4kHz

2. EIRP Spectral Density Data

2.1. Azimuth Pattern for Co-pol (-180°~180°)

F=13.75GHz, -15.69 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
-180	-58.714	-14.000
-179	-59.455	-14.000
-178	-54.648	-14.000
-177	-52.018	-14.000
-176	-55.059	-14.000
-175	-53.438	-14.000
-174	-48.260	-14.000
-173	-50.887	-14.000
-172	-48.929	-14.000
-171	-48.437	-14.000
-170	-49.777	-14.000
-169	-54.270	-14.000
-168	-52.686	-14.000
-167	-48.407	-14.000
-166	-54.398	-14.000
-165	-46.093	-14.000
-164	-49.181	-14.000
-163	-51.714	-14.000
-162	-42.565	-14.000
-161	-39.761	-14.000
-160	-47.555	-14.000
-159	-49.104	-14.000
-158	-43.186	-14.000
-157	-49.406	-14.000
-156	-51.313	-14.000
-155	-46.166	-14.000
-154	-43.263	-14.000
-153	-44.994	-14.000
-152	-44.792	-14.000
-151	-42.660	-14.000
-150	-42.520	-14.000
-149	-42.546	-14.000
-148	-40.070	-14.000
-147	-38.753	-14.000
-146	-37.135	-14.000
-145	-35.603	-14.000
-144	-34.913	-14.000
-143	-34.597	-14.000
-142	-35.680	-14.000
-141	-35.210	-14.000
-140	-35.549	-14.000

-139	-37.226	-14.000
-138	-41.754	-14.000
-137	-48.274	-14.000
-136	-48.602	-14.000
-135	-38.574	-14.000
-134	-37.480	-14.000
-133	-39.647	-14.000
-132	-51.531	-14.000
-131	-41.502	-14.000
-130	-37.948	-14.000
-129	-35.557	-14.000
-128	-34.991	-14.000
-127	-37.579	-14.000
-126	-52.358	-14.000
-125	-39.534	-14.000
-124	-37.404	-14.000
-123	-42.824	-14.000
-122	-45.885	-14.000
-121	-38.344	-14.000
-120	-39.118	-14.000
-119	-45.387	-14.000
-118	-49.120	-14.000
-117	-44.952	-14.000
-116	-46.603	-14.000
-115	-49.673	-14.000
-114	-45.225	-14.000
-113	-41.627	-14.000
-112	-43.228	-14.000
-111	-50.887	-14.000
-110	-46.939	-14.000
-109	-48.349	-14.000
-108	-57.061	-14.000
-107	-43.957	-14.000
-106	-50.969	-14.000
-105	-48.825	-14.000
-104	-49.927	-14.000
-103	-49.841	-14.000
-102	-62.323	-14.000
-101	-53.560	-14.000
-100	-47.366	-14.000
-99	-58.536	-14.000

-98	-45.276	-14.000
-97	-50.689	-14.000
-96	-44.814	-14.000
-95	-41.344	-14.000
-94	-43.188	-14.000
-93	-38.748	-14.000
-92	-42.463	-14.000
-91	-42.173	-14.000
-90	-57.895	-14.000
-89	-62.915	-14.000
-88	-55.426	-14.000
-87	-47.363	-14.000
-86	-43.718	-14.000
-85	-42.347	-14.000
-84	-40.664	-14.000
-83	-40.796	-14.000
-82	-45.373	-14.000
-81	-40.005	-14.000
-80	-36.548	-14.000
-79	-36.367	-14.000
-78	-46.326	-14.000
-77	-34.395	-14.000
-76	-35.750	-14.000
-75	-40.648	-14.000
-74	-38.353	-14.000
-73	-35.271	-14.000
-72	-37.634	-14.000
-71	-43.493	-14.000
-70	-33.773	-14.000
-69	-35.970	-14.000
-68	-32.813	-14.000
-67	-37.704	-14.000
-66	-35.986	-14.000
-65	-32.061	-14.000
-64	-38.500	-14.000
-63	-34.554	-14.000
-62	-31.722	-14.000
-61	-30.162	-14.000
-60	-32.856	-14.000
-59	-30.292	-14.000
-58	-29.316	-14.000

-57	-27.016	-14.000
-56	-23.313	-14.000
-55	-21.798	-14.000
-54	-19.612	-14.000
-53	-18.750	-14.000
-52	-17.084	-14.000
-51	-17.035	-14.000
-50	-17.702	-14.000
-49	-17.381	-14.000
-48	-17.291	-14.000
-47	-19.334	-14.000
-46	-18.941	-14.000
-45	-20.032	-14.000
-44	-20.117	-14.000
-43	-21.496	-14.000
-42	-20.947	-14.000
-41	-20.561	-14.000
-40	-21.387	-14.000
-39	-21.519	-14.000
-38	-22.916	-14.000
-37	-26.351	-14.000
-36	-26.985	-14.000
-35	-30.770	-14.000
-34	-26.372	-14.000
-33	-25.653	-14.000
-32	-26.428	-14.000
-31	-26.049	-14.000
-30	-24.120	-14.000
-29	-27.222	-14.000
-28	-32.435	-14.000
-27	-29.636	-14.000
-26	-26.099	-14.000
-25	-41.988	-14.000
-24	-30.497	-14.000
-23	-25.948	-14.000
-22	-24.676	-14.000
-21	-30.329	-14.000
-20	-24.017	-14.000
-19	-23.205	-13.969
-18	-24.286	-13.382
-17	-28.871	-12.761

-16	-29.008	-12.103
-15	-21.185	-11.402
-14	-22.341	-10.653
-13	-32.839	-9.849
-12	-26.704	-8.980
-11	-20.208	-8.035
-10	-15.322	-7.000
-9	-18.124	-6.000
-8	-11.867	-6.000
-7	-11.598	-6.127
-6	-18.070	-4.454
-5	-19.718	-2.474
-4	-13.264	-0.051
-3	-26.682	3.072
-2	3.808	7.474
-1	10.109	
-1.00044E-11	32.310	
1	8.562	
2	-9.239	7.474
3	-13.592	3.072
4	-7.132	-0.051
5	-21.112	-2.474
6	-24.317	-4.454
7	-22.444	-6.127
8	-16.300	-6.000
9	-15.476	-6.000
10	-17.995	-7.000
11	-18.404	-8.035
12	-25.421	-8.980
13	-24.380	-9.849
14	-21.917	-10.653
15	-37.418	-11.402
16	-23.943	-12.103
17	-27.129	-12.761
18	-32.008	-13.382
19	-27.010	-13.969
20	-23.961	-14.000
21	-33.613	-14.000
22	-39.587	-14.000
23	-41.158	-14.000
24	-26.290	-14.000

25	-25.851	-14.000
26	-36.319	-14.000
27	-27.464	-14.000
28	-31.710	-14.000
29	-27.809	-14.000
30	-29.057	-14.000
31	-25.109	-14.000
32	-23.795	-14.000
33	-29.299	-14.000
34	-22.847	-14.000
35	-28.997	-14.000
36	-28.916	-14.000
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53	-19.492	-14.000
54	-23.056	-14.000
55	-22.847	-14.000
56	-24.426	-14.000
57	-28.716	-14.000
58	-27.807	-14.000
59	-27.282	-14.000
60	-31.364	-14.000
61	-30.833	-14.000
62	-37.537	-14.000
63	-31.312	-14.000
64	-34.025	-14.000
65	-40.990	-14.000

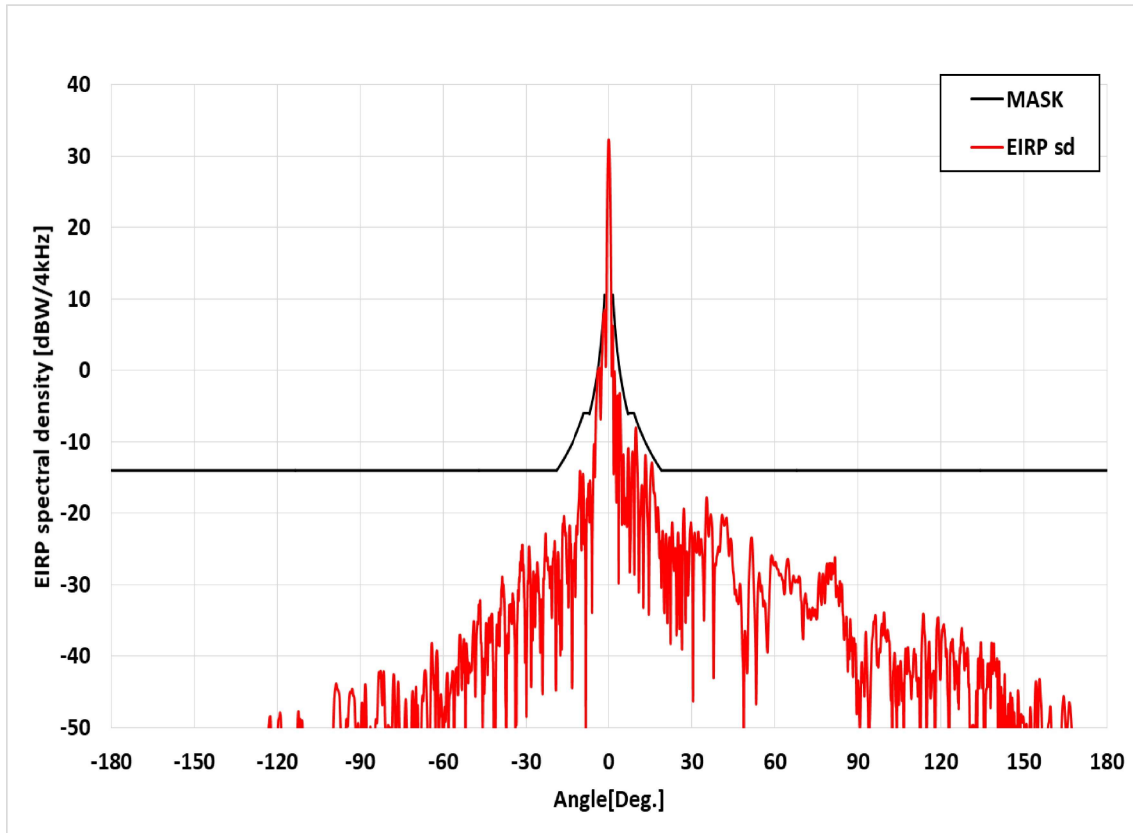
66	-34.956	-14.000
67	-34.406	-14.000
68	-35.245	-14.000
69	-41.600	-14.000
70	-52.439	-14.000
71	-43.891	-14.000
72	-43.252	-14.000
73	-35.324	-14.000
74	-41.764	-14.000
75	-33.045	-14.000
76	-40.145	-14.000
77	-39.415	-14.000
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79	-46.061	-14.000
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81	-41.331	-14.000
82	-41.069	-14.000
83	-38.954	-14.000
84	-42.101	-14.000
85	-49.792	-14.000
86	-67.706	-14.000
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100	-57.949	-14.000
101	-53.178	-14.000
102	-48.970	-14.000
103	-45.301	-14.000
104	-54.522	-14.000
105	-45.111	-14.000
106	-42.967	-14.000

107	-44.296	-14.000
108	-44.435	-14.000
109	-47.334	-14.000
110	-39.831	-14.000
111	-39.152	-14.000
112	-44.619	-14.000
113	-49.305	-14.000
114	-48.258	-14.000
115	-46.345	-14.000
116	-43.873	-14.000
117	-50.881	-14.000
118	-44.190	-14.000
119	-44.315	-14.000
120	-45.433	-14.000
121	-47.810	-14.000
122	-52.045	-14.000
123	-43.874	-14.000
124	-43.378	-14.000
125	-58.851	-14.000
126	-46.590	-14.000
127	-43.443	-14.000
128	-41.329	-14.000
129	-46.622	-14.000
130	-45.210	-14.000
131	-41.111	-14.000
132	-40.674	-14.000
133	-50.916	-14.000
134	-50.317	-14.000
135	-43.939	-14.000
136	-44.024	-14.000
137	-38.219	-14.000
138	-36.843	-14.000
139	-40.207	-14.000
140	-49.735	-14.000
141	-48.667	-14.000
142	-47.152	-14.000
143	-44.928	-14.000
144	-54.216	-14.000
145	-40.778	-14.000
146	-39.848	-14.000
147	-42.461	-14.000

148	-43.827	-14.000
149	-46.629	-14.000
150	-41.096	-14.000
151	-47.697	-14.000
152	-47.729	-14.000
153	-44.291	-14.000
154	-49.075	-14.000
155	-44.106	-14.000
156	-53.423	-14.000
157	-66.617	-14.000
158	-49.628	-14.000
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166	-47.454	-14.000
167	-49.378	-14.000
168	-49.381	-14.000
169	-54.495	-14.000
170	-50.518	-14.000
171	-45.498	-14.000
172	-45.999	-14.000
173	-51.840	-14.000
174	-56.486	-14.000
175	-47.543	-14.000
176	-50.838	-14.000
177	-67.896	-14.000
178	-49.828	-14.000
179	-50.452	-14.000
180	-57.913	-14.000

3. EIRP Spectral Density of v240MT Gen-II Ku-band (Maximum skew angle 45degree)

3.1. Azimuth Pattern for Co-pol, Wide Angle (-180° ~ 180°)



-15.69 dBW/4kHz Input power spectral density @ f=13.75GHz

- **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(θ)	dBW/4kHz	for	$9.2^\circ < \theta \leq 19.1^\circ$
-14	dBW/4kHz	for	$19.1^\circ < \theta \leq 180^\circ$

The v240MT Gen-II's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -15.69 dBW/ 4kHz

4. EIRP Spectral Density Data (Maximum skew angle 45degree)

4.1. Azimuth Pattern for Co-pol (-180°~180°)

F=13.75GHz, -15.69 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
-180	-78.553	-14.000
-179	-78.044	-14.000
-178	-77.035	-14.000
-177	-76.133	-14.000
-176	-79.219	-14.000
-175	-91.433	-14.000
-174	-79.121	-14.000
-173	-71.358	-14.000
-172	-69.575	-14.000
-171	-82.618	-14.000
-170	-66.801	-14.000
-169	-67.225	-14.000
-168	-71.330	-14.000
-167	-64.643	-14.000
-166	-76.912	-14.000
-165	-72.906	-14.000
-164	-72.534	-14.000
-163	-80.012	-14.000
-162	-75.825	-14.000
-161	-64.931	-14.000
-160	-67.537	-14.000
-159	-76.299	-14.000
-158	-76.245	-14.000
-157	-59.612	-14.000
-156	-65.727	-14.000
-155	-70.510	-14.000
-154	-65.466	-14.000
-153	-68.264	-14.000
-152	-63.477	-14.000
-151	-62.355	-14.000
-150	-66.297	-14.000
-149	-67.025	-14.000
-148	-64.722	-14.000
-147	-62.311	-14.000
-146	-72.753	-14.000
-145	-74.296	-14.000
-144	-80.472	-14.000
-143	-67.462	-14.000
-142	-57.888	-14.000
-141	-55.453	-14.000
-140	-58.950	-14.000

-139	-60.953	-14.000
-138	-54.181	-14.000
-137	-52.422	-14.000
-136	-54.645	-14.000
-135	-55.515	-14.000
-134	-61.541	-14.000
-133	-53.982	-14.000
-132	-54.223	-14.000
-131	-51.579	-14.000
-130	-58.065	-14.000
-129	-64.537	-14.000
-128	-54.473	-14.000
-127	-63.494	-14.000
-126	-52.708	-14.000
-125	-60.157	-14.000
-124	-58.945	-14.000
-123	-49.464	-14.000
-122	-50.669	-14.000
-121	-63.832	-14.000
-120	-51.287	-14.000
-119	-48.099	-14.000
-118	-57.551	-14.000
-117	-59.236	-14.000
-116	-54.428	-14.000
-115	-58.177	-14.000
-114	-59.062	-14.000
-113	-52.063	-14.000
-112	-49.907	-14.000
-111	-49.432	-14.000
-110	-54.295	-14.000
-109	-60.138	-14.000
-108	-51.988	-14.000
-107	-55.959	-14.000
-106	-71.995	-14.000
-105	-57.132	-14.000
-104	-56.337	-14.000
-103	-58.515	-14.000
-102	-60.767	-14.000
-101	-52.818	-14.000
-100	-51.372	-14.000
-99	-44.214	-14.000

-98	-44.809	-14.000
-97	-51.168	-14.000
-96	-54.183	-14.000
-95	-48.788	-14.000
-94	-45.548	-14.000
-93	-44.577	-14.000
-92	-47.652	-14.000
-91	-49.786	-14.000
-90	-57.097	-14.000
-89	-50.966	-14.000
-88	-45.531	-14.000
-87	-55.499	-14.000
-86	-54.865	-14.000
-85	-50.407	-14.000
-84	-49.265	-14.000
-83	-42.875	-14.000
-82	-45.988	-14.000
-81	-49.994	-14.000
-80	-49.647	-14.000
-79	-50.508	-14.000
-78	-42.534	-14.000
-77	-51.911	-14.000
-76	-48.218	-14.000
-75	-51.048	-14.000
-74	-50.048	-14.000
-73	-52.216	-14.000
-72	-51.216	-14.000
-71	-45.952	-14.000
-70	-44.787	-14.000
-69	-52.890	-14.000
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-53	-42.299	-14.000
-52	-56.848	-14.000
-51	-43.786	-14.000
-50	-41.587	-14.000
-49	-35.119	-14.000
-48	-36.901	-14.000
-47	-34.005	-14.000
-46	-43.341	-14.000
-45	-40.842	-14.000
-44	-42.630	-14.000
-43	-36.720	-14.000
-42	-41.207	-14.000
-41	-41.183	-14.000
-40	-34.574	-14.000
-39	-30.370	-14.000
-38	-32.221	-14.000
-37	-37.576	-14.000
-36	-35.102	-14.000
-35	-31.279	-14.000
-34	-60.627	-14.000
-33	-30.761	-14.000
-32	-26.168	-14.000
-31	-27.735	-14.000
-30	-48.464	-14.000
-29	-24.660	-14.000
-28	-31.112	-14.000
-27	-33.764	-14.000
-26	-27.037	-14.000
-25	-39.499	-14.000
-24	-37.079	-14.000
-23	-22.957	-14.000
-22	-27.626	-14.000
-21	-30.403	-14.000
-20	-25.274	-14.000
-19	-31.301	-13.969
-18	-34.759	-13.382
-17	-23.890	-12.761

-16	-23.045	-12.103
-15	-26.639	-11.402
-14	-24.522	-10.653
-13	-26.594	-9.849
-12	-30.670	-8.980
-11	-19.531	-8.035
-10	-20.300	-7.000
-9	-21.604	-6.000
-8	-21.101	-6.000
-7	-21.260	-6.127
-6	-33.929	-4.454
-5	-14.935	-2.474
-4	-0.050	-0.051
-3	-6.250	3.072
-2	7.102	7.474
-1	0.864	
-1.00044E-11	32.310	
1	3.763	
2	-0.487	7.474
3	-7.180	3.072
4	-3.215	-0.051
5	-15.022	-2.474
6	-17.940	-4.454
7	-11.004	-6.127
8	-20.852	-6.000
9	-15.011	-6.000
10	-8.773	-7.000
11	-28.210	-8.035
12	-16.077	-8.980
13	-14.554	-9.849
14	-20.722	-10.653
15	-15.972	-11.402
16	-14.925	-12.103
17	-20.649	-12.761
18	-20.503	-13.382
19	-30.351	-13.969
20	-33.450	-14.000
21	-28.241	-14.000
22	-23.852	-14.000
23	-21.306	-14.000
24	-24.879	-14.000

25	-22.929	-14.000
26	-24.487	-14.000
27	-20.075	-14.000
28	-27.265	-14.000
29	-27.604	-14.000
30	-22.890	-14.000
31	-22.758	-14.000
32	-24.871	-14.000
33	-25.094	-14.000
34	-27.034	-14.000
35	-21.552	-14.000
36	-22.819	-14.000
37	-20.390	-14.000
38	-38.888	-14.000
39	-26.159	-14.000
40	-25.302	-14.000
41	-20.227	-14.000
42	-21.336	-14.000
43	-22.883	-14.000
44	-23.579	-14.000
45	-28.283	-14.000
46	-30.833	-14.000
47	-32.254	-14.000
48	-34.011	-14.000
49	-39.816	-14.000
50	-42.355	-14.000
51	-26.028	-14.000
52	-25.235	-14.000
53	-38.407	-14.000
54	-30.122	-14.000
55	-30.900	-14.000
56	-32.687	-14.000
57	-36.974	-14.000
58	-32.056	-14.000
59	-25.992	-14.000
60	-27.140	-14.000
61	-27.809	-14.000
62	-28.519	-14.000
63	-29.417	-14.000
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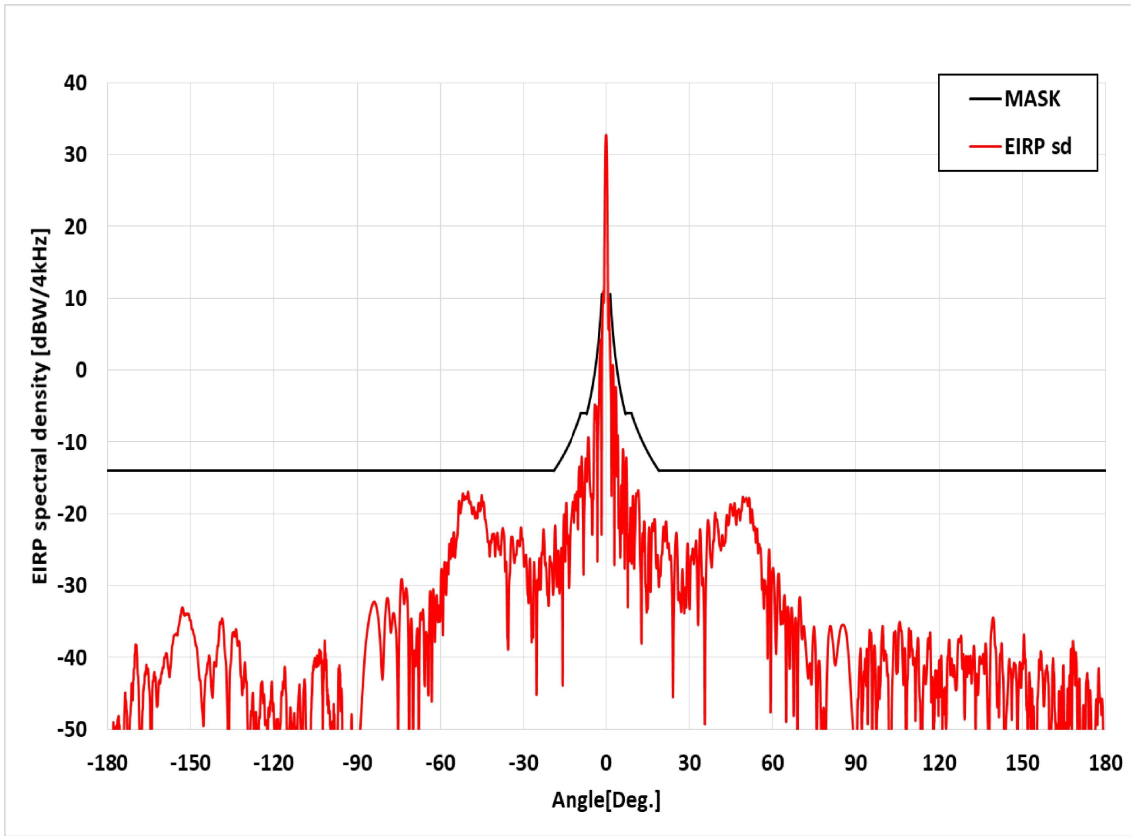
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75	-34.705	-14.000
76	-28.867	-14.000
77	-32.485	-14.000
78	-31.846	-14.000
79	-27.535	-14.000
80	-26.998	-14.000
81	-28.474	-14.000
82	-29.784	-14.000
83	-31.294	-14.000
84	-31.721	-14.000
85	-37.202	-14.000
86	-34.581	-14.000
87	-39.487	-14.000
88	-38.122	-14.000
89	-39.900	-14.000
90	-43.452	-14.000
91	-47.731	-14.000
92	-42.726	-14.000
93	-36.818	-14.000
94	-59.457	-14.000
95	-39.542	-14.000
96	-35.396	-14.000
97	-41.283	-14.000
98	-39.069	-14.000
99	-37.089	-14.000
100	-37.456	-14.000
101	-36.896	-14.000
102	-46.187	-14.000
103	-41.568	-14.000
104	-48.728	-14.000
105	-45.056	-14.000
106	-46.257	-14.000

107	-41.434	-14.000
108	-39.491	-14.000
109	-42.984	-14.000
110	-42.409	-14.000
111	-40.438	-14.000
112	-43.038	-14.000
113	-40.832	-14.000
114	-36.141	-14.000
115	-51.916	-14.000
116	-39.854	-14.000
117	-42.429	-14.000
118	-54.902	-14.000
119	-34.633	-14.000
120	-42.275	-14.000
121	-35.589	-14.000
122	-38.990	-14.000
123	-54.110	-14.000
124	-38.272	-14.000
125	-44.608	-14.000
126	-43.956	-14.000
127	-38.786	-14.000
128	-38.210	-14.000
129	-39.621	-14.000
130	-43.812	-14.000
131	-66.738	-14.000
132	-59.009	-14.000
133	-49.876	-14.000
134	-42.797	-14.000
135	-44.443	-14.000
136	-55.136	-14.000
137	-41.060	-14.000
138	-47.251	-14.000
139	-39.642	-14.000
140	-41.923	-14.000
141	-41.794	-14.000
142	-48.808	-14.000
143	-43.905	-14.000
144	-52.847	-14.000
145	-46.724	-14.000
146	-47.381	-14.000
147	-51.963	-14.000

148	-45.132	-14.000
149	-48.133	-14.000
150	-49.182	-14.000
151	-49.494	-14.000
152	-53.631	-14.000
153	-58.354	-14.000
154	-46.438	-14.000
155	-58.851	-14.000
156	-45.029	-14.000
157	-58.902	-14.000
158	-63.234	-14.000
159	-49.333	-14.000
160	-50.595	-14.000
161	-51.408	-14.000
162	-53.131	-14.000
163	-54.762	-14.000
164	-46.994	-14.000
165	-49.122	-14.000
166	-48.570	-14.000
167	-48.191	-14.000
168	-55.249	-14.000
169	-56.681	-14.000
170	-57.447	-14.000
171	-59.811	-14.000
172	-62.494	-14.000
173	-66.723	-14.000
174	-67.126	-14.000
175	-65.939	-14.000
176	-65.506	-14.000
177	-66.130	-14.000
178	-67.681	-14.000
179	-68.826	-14.000
180	-69.150	-14.000

9. EIRP Spectral Density of v240MT Gen-II Ku-band

9.1. Azimuth Pattern for Co-pol, Wide Angle (-180° ~ 180°)



-15.69 dBW/4kHz Input power spectral density @ f=14.5GHz

- **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(θ)	dBW/4kHz	for	$9.2^\circ < \theta \leq 19.1^\circ$
-14	dBW/4kHz	for	$19.1^\circ < \theta \leq 180^\circ$

The v240MT Gen-II's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -15.69 dBW/ 4kHz

10. EIRP Spectral Density Data

10.1. Azimuth Pattern for Co-pol (-180°~180°)

F=14.5GHz, -15.69 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
-180	-52.319	-14.000
-179	-53.538	-14.000
-178	-51.029	-14.000
-177	-49.616	-14.000
-176	-48.157	-14.000
-175	-53.862	-14.000
-174	-48.656	-14.000
-173	-48.038	-14.000
-172	-50.010	-14.000
-171	-44.785	-14.000
-170	-39.201	-14.000
-169	-42.610	-14.000
-168	-62.291	-14.000
-167	-44.514	-14.000
-166	-41.005	-14.000
-165	-44.270	-14.000
-164	-48.243	-14.000
-163	-42.582	-14.000
-162	-46.732	-14.000
-161	-43.547	-14.000
-160	-41.277	-14.000
-159	-39.493	-14.000
-158	-41.698	-14.000
-157	-39.849	-14.000
-156	-36.921	-14.000
-155	-36.812	-14.000
-154	-34.906	-14.000
-153	-33.027	-14.000
-152	-34.025	-14.000
-151	-33.884	-14.000
-150	-34.940	-14.000
-149	-36.659	-14.000
-148	-38.452	-14.000
-147	-42.367	-14.000
-146	-46.944	-14.000
-145	-45.043	-14.000
-144	-41.028	-14.000
-143	-41.472	-14.000
-142	-45.099	-14.000
-141	-41.043	-14.000
-140	-37.970	-14.000

-139	-35.120	-14.000
-138	-37.110	-14.000
-137	-44.086	-14.000
-136	-43.876	-14.000
-135	-36.883	-14.000
-134	-36.783	-14.000
-133	-38.326	-14.000
-132	-42.200	-14.000
-131	-44.228	-14.000
-130	-43.256	-14.000
-129	-59.350	-14.000
-128	-48.046	-14.000
-127	-54.136	-14.000
-126	-51.796	-14.000
-125	-47.203	-14.000
-124	-45.341	-14.000
-123	-48.721	-14.000
-122	-47.089	-14.000
-121	-45.254	-14.000
-120	-49.013	-14.000
-119	-49.308	-14.000
-118	-51.748	-14.000
-117	-45.252	-14.000
-116	-41.822	-14.000
-115	-65.200	-14.000
-114	-46.990	-14.000
-113	-51.377	-14.000
-112	-50.130	-14.000
-111	-44.832	-14.000
-110	-62.430	-14.000
-109	-43.088	-14.000
-108	-63.394	-14.000
-107	-55.734	-14.000
-106	-42.111	-14.000
-105	-40.085	-14.000
-104	-41.113	-14.000
-103	-39.865	-14.000
-102	-40.600	-14.000
-101	-42.714	-14.000
-100	-47.321	-14.000
-99	-49.935	-14.000

-98	-52.713	-14.000
-97	-49.177	-14.000
-96	-45.806	-14.000
-95	-54.209	-14.000
-94	-53.434	-14.000
-93	-52.738	-14.000
-92	-47.900	-14.000
-91	-52.852	-14.000
-90	-54.307	-14.000
-89	-50.716	-14.000
-88	-44.180	-14.000
-87	-38.589	-14.000
-86	-35.336	-14.000
-85	-33.271	-14.000
-84	-32.265	-14.000
-83	-33.036	-14.000
-82	-36.209	-14.000
-81	-42.900	-14.000
-80	-35.221	-14.000
-79	-31.787	-14.000
-78	-36.161	-14.000
-77	-33.890	-14.000
-76	-36.342	-14.000
-75	-42.709	-14.000
-74	-29.107	-14.000
-73	-32.542	-14.000
-72	-31.150	-14.000
-71	-41.027	-14.000
-70	-42.112	-14.000
-69	-40.624	-14.000
-68	-40.119	-14.000
-67	-33.882	-14.000
-66	-35.242	-14.000
-65	-36.634	-14.000
-64	-35.080	-14.000
-63	-40.750	-14.000
-62	-37.787	-14.000
-61	-34.021	-14.000
-60	-33.123	-14.000
-59	-35.429	-14.000
-58	-31.030	-14.000

-57	-27.133	-14.000
-56	-23.474	-14.000
-55	-23.312	-14.000
-54	-23.377	-14.000
-53	-19.012	-14.000
-52	-17.490	-14.000
-51	-17.582	-14.000
-50	-16.941	-14.000
-49	-18.635	-14.000
-48	-19.071	-14.000
-47	-19.808	-14.000
-46	-18.782	-14.000
-45	-17.584	-14.000
-44	-20.533	-14.000
-43	-23.386	-14.000
-42	-24.525	-14.000
-41	-23.501	-14.000
-40	-24.345	-14.000
-39	-24.925	-14.000
-38	-24.170	-14.000
-37	-23.090	-14.000
-36	-32.487	-14.000
-35	-28.549	-14.000
-34	-23.307	-14.000
-33	-26.043	-14.000
-32	-23.793	-14.000
-31	-22.009	-14.000
-30	-26.083	-14.000
-29	-26.112	-14.000
-28	-29.732	-14.000
-27	-36.682	-14.000
-26	-28.149	-14.000
-25	-29.687	-14.000
-24	-29.650	-14.000
-23	-23.135	-14.000
-22	-26.787	-14.000
-21	-32.795	-14.000
-20	-26.857	-14.000
-19	-28.924	-13.969
-18	-30.127	-13.382
-17	-31.079	-12.761

-16	-32.753	-12.103
-15	-24.991	-11.402
-14	-22.959	-10.653
-13	-22.040	-9.849
-12	-18.676	-8.980
-11	-17.998	-8.035
-10	-18.332	-7.000
-9	-14.647	-6.000
-8	-23.301	-6.000
-7	-15.379	-6.127
-6	-13.659	-4.454
-5	-22.867	-2.474
-4	-5.273	-0.051
-3	-13.958	3.072
-2	4.266	7.474
-1	10.953	
-1.00044E-11	32.710	
1	9.936	
2	-17.429	7.474
3	-27.117	3.072
4	-11.821	-0.051
5	-24.204	-2.474
6	-12.204	-4.454
7	-16.002	-6.127
8	-22.880	-6.000
9	-21.407	-6.000
10	-22.872	-7.000
11	-17.125	-8.035
12	-20.860	-8.980
13	-24.872	-9.849
14	-25.486	-10.653
15	-33.260	-11.402
16	-30.852	-12.103
17	-22.141	-12.761
18	-26.526	-13.382
19	-30.152	-13.969
20	-25.777	-14.000
21	-23.466	-14.000
22	-23.850	-14.000
23	-26.390	-14.000
24	-40.530	-14.000

25	-23.934	-14.000
26	-31.986	-14.000
27	-33.291	-14.000
28	-31.751	-14.000
29	-29.684	-14.000
30	-32.882	-14.000
31	-25.861	-14.000
32	-25.002	-14.000
33	-33.310	-14.000
34	-22.691	-14.000
35	-29.693	-14.000
36	-29.462	-14.000
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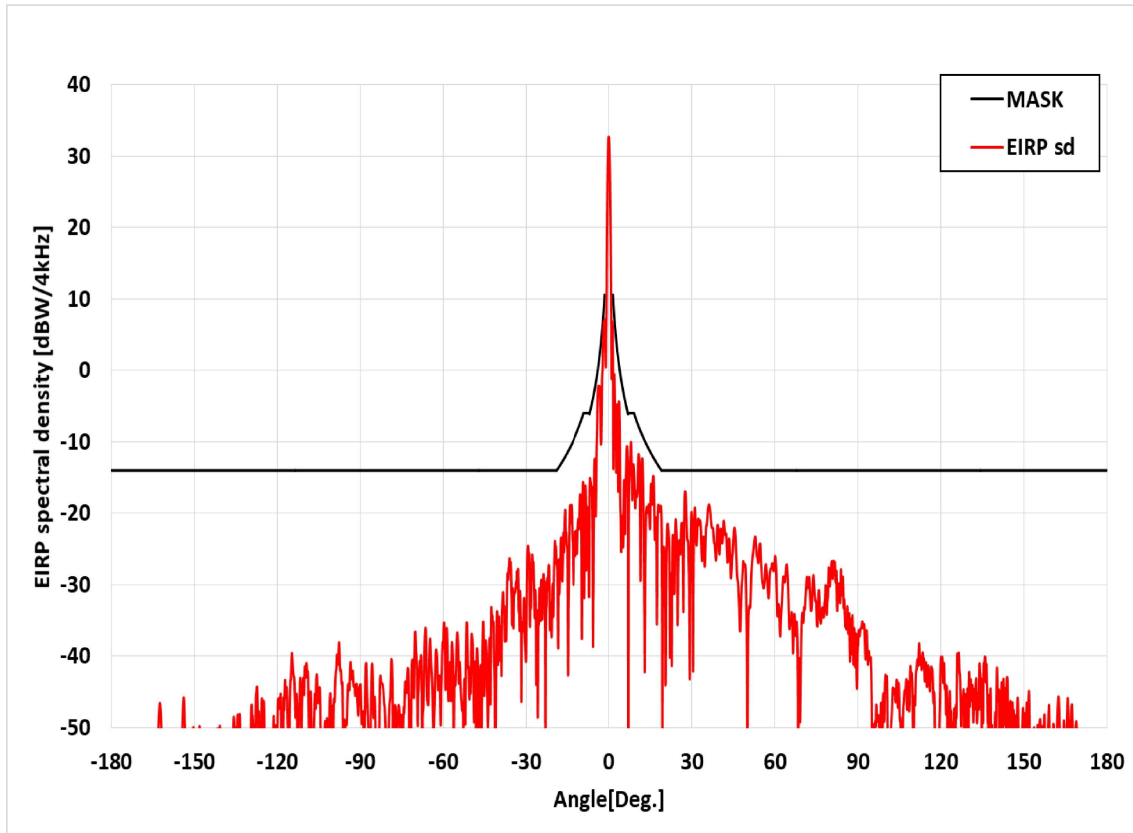
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75	-35.808	-14.000
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78	-50.300	-14.000
79	-59.074	-14.000
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81	-35.742	-14.000
82	-39.165	-14.000
83	-40.307	-14.000
84	-37.066	-14.000
85	-35.516	-14.000
86	-35.754	-14.000
87	-38.147	-14.000
88	-43.702	-14.000
89	-50.213	-14.000
90	-53.142	-14.000
91	-44.462	-14.000
92	-44.099	-14.000
93	-42.243	-14.000
94	-38.805	-14.000
95	-36.146	-14.000
96	-50.760	-14.000
97	-41.097	-14.000
98	-44.925	-14.000
99	-42.188	-14.000
100	-39.540	-14.000
101	-39.563	-14.000
102	-55.641	-14.000
103	-46.226	-14.000
104	-36.778	-14.000
105	-41.197	-14.000
106	-35.280	-14.000

107	-42.215	-14.000
108	-50.357	-14.000
109	-36.928	-14.000
110	-37.952	-14.000
111	-40.053	-14.000
112	-39.150	-14.000
113	-45.406	-14.000
114	-49.410	-14.000
115	-42.739	-14.000
116	-37.617	-14.000
117	-39.863	-14.000
118	-55.520	-14.000
119	-44.040	-14.000
120	-40.973	-14.000
121	-44.556	-14.000
122	-45.629	-14.000
123	-40.469	-14.000
124	-41.770	-14.000
125	-42.633	-14.000
126	-44.504	-14.000
127	-37.527	-14.000
128	-37.166	-14.000
129	-44.416	-14.000
130	-41.885	-14.000
131	-41.732	-14.000
132	-41.663	-14.000
133	-44.985	-14.000
134	-45.215	-14.000
135	-40.678	-14.000
136	-39.644	-14.000
137	-39.121	-14.000
138	-66.282	-14.000
139	-35.719	-14.000
140	-37.117	-14.000
141	-46.946	-14.000
142	-39.488	-14.000
143	-42.296	-14.000
144	-50.488	-14.000
145	-42.200	-14.000
146	-43.972	-14.000
147	-40.781	-14.000

148	-46.128	-14.000
149	-40.903	-14.000
150	-41.152	-14.000
151	-40.840	-14.000
152	-51.092	-14.000
153	-46.521	-14.000
154	-47.680	-14.000
155	-53.380	-14.000
156	-40.405	-14.000
157	-40.748	-14.000
158	-45.493	-14.000
159	-41.953	-14.000
160	-57.226	-14.000
161	-40.699	-14.000
162	-49.024	-14.000
163	-49.336	-14.000
164	-46.645	-14.000
165	-47.040	-14.000
166	-55.936	-14.000
167	-42.476	-14.000
168	-43.909	-14.000
169	-43.847	-14.000
170	-51.494	-14.000
171	-56.614	-14.000
172	-46.630	-14.000
173	-43.470	-14.000
174	-52.061	-14.000
175	-58.681	-14.000
176	-55.871	-14.000
177	-49.386	-14.000
178	-46.196	-14.000
179	-48.116	-14.000
180	-56.315	-14.000

11. EIRP Spectral Density of v240MT Gen-II Ku-band (Maximum skew angle 45degree)

11.1. Azimuth Pattern for Co-pol, Wide Angle (-180° ~ 180°)



-15.69 dBW/4kHz Input power spectral density @ f=14.5GHz

- **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(θ)	dBW/4kHz	for	$9.2^\circ < \theta \leq 19.1^\circ$
-14	dBW/4kHz	for	$19.1^\circ < \theta \leq 180^\circ$

The v240MT Gen-II's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -15.69 dBW/ 4kHz

12. EIRP Spectral Density Data (Maximum skew angle 45degree)

12.1. Azimuth Pattern for Co-pol (-180°~180°)

F=14.5GHz, -15.69 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
-180	-61.568	-14.000
-179	-69.244	-14.000
-178	-80.508	-14.000
-177	-71.990	-14.000
-176	-71.061	-14.000
-175	-71.012	-14.000
-174	-71.354	-14.000
-173	-77.031	-14.000
-172	-73.155	-14.000
-171	-63.555	-14.000
-170	-58.415	-14.000
-169	-56.329	-14.000
-168	-55.976	-14.000
-167	-61.737	-14.000
-166	-59.386	-14.000
-165	-60.803	-14.000
-164	-58.576	-14.000
-163	-49.612	-14.000
-162	-50.480	-14.000
-161	-55.914	-14.000
-160	-61.528	-14.000
-159	-59.456	-14.000
-158	-52.164	-14.000
-157	-64.183	-14.000
-156	-55.940	-14.000
-155	-53.107	-14.000
-154	-46.009	-14.000
-153	-53.535	-14.000
-152	-53.788	-14.000
-151	-54.924	-14.000
-150	-58.698	-14.000
-149	-72.540	-14.000
-148	-52.378	-14.000
-147	-73.809	-14.000
-146	-66.336	-14.000
-145	-52.732	-14.000
-144	-52.758	-14.000
-143	-53.621	-14.000
-142	-56.050	-14.000
-141	-51.254	-14.000
-140	-53.671	-14.000

-139	-54.260	-14.000
-138	-63.474	-14.000
-137	-60.608	-14.000
-136	-50.716	-14.000
-135	-49.974	-14.000
-134	-58.561	-14.000
-133	-54.250	-14.000
-132	-53.808	-14.000
-131	-56.015	-14.000
-130	-57.001	-14.000
-129	-48.312	-14.000
-128	-53.278	-14.000
-127	-51.271	-14.000
-126	-61.311	-14.000
-125	-46.271	-14.000
-124	-55.411	-14.000
-123	-58.612	-14.000
-122	-58.461	-14.000
-121	-52.436	-14.000
-120	-49.794	-14.000
-119	-45.925	-14.000
-118	-55.941	-14.000
-117	-45.876	-14.000
-116	-54.760	-14.000
-115	-41.207	-14.000
-114	-42.891	-14.000
-113	-46.048	-14.000
-112	-45.585	-14.000
-111	-44.949	-14.000
-110	-41.436	-14.000
-109	-42.205	-14.000
-108	-44.958	-14.000
-107	-54.677	-14.000
-106	-43.211	-14.000
-105	-45.387	-14.000
-104	-55.473	-14.000
-103	-54.405	-14.000
-102	-49.673	-14.000
-101	-45.542	-14.000
-100	-52.097	-14.000
-99	-42.625	-14.000

-98	-40.679	-14.000
-97	-42.558	-14.000
-96	-52.563	-14.000
-95	-49.627	-14.000
-94	-44.502	-14.000
-93	-42.522	-14.000
-92	-44.768	-14.000
-91	-47.219	-14.000
-90	-43.993	-14.000
-89	-48.366	-14.000
-88	-41.018	-14.000
-87	-51.440	-14.000
-86	-42.453	-14.000
-85	-45.778	-14.000
-84	-52.937	-14.000
-83	-44.637	-14.000
-82	-43.926	-14.000
-81	-49.254	-14.000
-80	-56.441	-14.000
-79	-42.282	-14.000
-78	-51.489	-14.000
-77	-50.515	-14.000
-76	-47.378	-14.000
-75	-49.869	-14.000
-74	-46.293	-14.000
-73	-42.102	-14.000
-72	-46.227	-14.000
-71	-41.634	-14.000
-70	-38.363	-14.000
-69	-44.918	-14.000
-68	-40.301	-14.000
-67	-42.563	-14.000
-66	-45.358	-14.000
-65	-38.587	-14.000
-64	-44.631	-14.000
-63	-42.333	-14.000
-62	-44.160	-14.000
-61	-49.673	-14.000
-60	-37.780	-14.000
-59	-38.385	-14.000
-58	-44.627	-14.000

-57	-38.826	-14.000
-56	-42.783	-14.000
-55	-36.708	-14.000
-54	-42.019	-14.000
-53	-46.657	-14.000
-52	-44.993	-14.000
-51	-41.391	-14.000
-50	-40.027	-14.000
-49	-47.577	-14.000
-48	-40.027	-14.000
-47	-46.369	-14.000
-46	-42.676	-14.000
-45	-40.948	-14.000
-44	-49.128	-14.000
-43	-46.584	-14.000
-42	-35.184	-14.000
-41	-45.388	-14.000
-40	-34.434	-14.000
-39	-42.653	-14.000
-38	-33.049	-14.000
-37	-30.641	-14.000
-36	-27.002	-14.000
-35	-31.349	-14.000
-34	-30.777	-14.000
-33	-27.845	-14.000
-32	-36.156	-14.000
-31	-34.530	-14.000
-30	-36.310	-14.000
-29	-25.601	-14.000
-28	-26.991	-14.000
-27	-34.655	-14.000
-26	-36.205	-14.000
-25	-32.502	-14.000
-24	-30.888	-14.000
-23	-39.037	-14.000
-22	-27.657	-14.000
-21	-36.136	-14.000
-20	-27.849	-14.000
-19	-26.888	-13.969
-18	-30.572	-13.382
-17	-29.514	-12.761

-16	-19.542	-12.103
-15	-34.789	-11.402
-14	-21.326	-10.653
-13	-27.976	-9.849
-12	-23.373	-8.980
-11	-20.804	-8.035
-10	-20.551	-7.000
-9	-22.216	-6.000
-8	-23.413	-6.000
-7	-20.752	-6.127
-6	-18.160	-4.454
-5	-12.367	-2.474
-4	-3.949	-0.051
-3	-6.643	3.072
-2	3.638	7.474
-1	0.545	
-1.00044E-11	32.710	
1	-0.943	
2	-0.531	7.474
3	-5.345	3.072
4	-9.556	-0.051
5	-21.272	-2.474
6	-19.410	-4.454
7	-20.894	-6.127
8	-10.086	-6.000
9	-13.522	-6.000
10	-16.994	-7.000
11	-12.436	-8.035
12	-12.594	-8.980
13	-42.233	-9.849
14	-19.568	-10.653
15	-20.666	-11.402
16	-15.330	-12.103
17	-20.549	-12.761
18	-18.815	-13.382
19	-19.859	-13.969
20	-24.832	-14.000
21	-23.710	-14.000
22	-31.291	-14.000
23	-26.646	-14.000
24	-23.054	-14.000

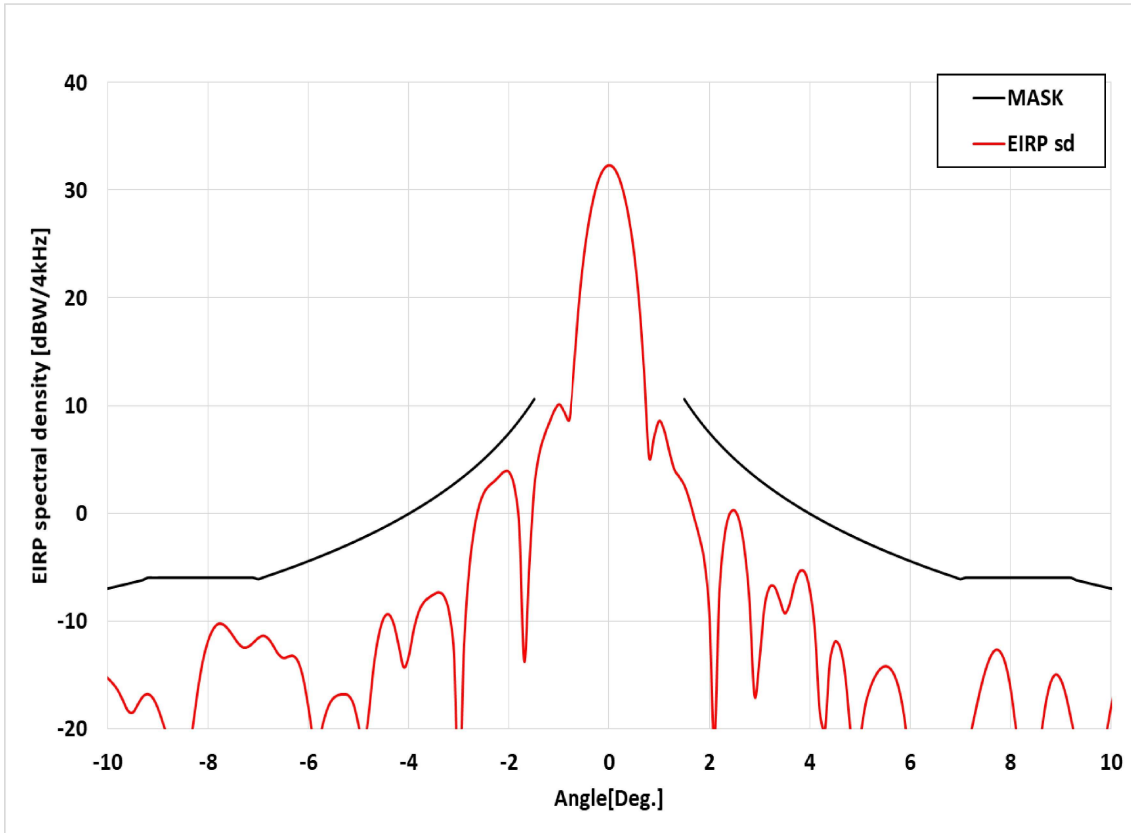
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42	-22.937	-14.000
43	-26.854	-14.000
44	-27.905	-14.000
45	-24.286	-14.000
46	-24.706	-14.000
47	-31.682	-14.000
48	-30.829	-14.000
49	-27.473	-14.000
50	-42.925	-14.000
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57	-27.886	-14.000
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65	-32.769	-14.000

66	-34.426	-14.000
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68	-35.704	-14.000
69	-43.474	-14.000
70	-33.935	-14.000
71	-32.563	-14.000
72	-30.325	-14.000
73	-33.376	-14.000
74	-28.657	-14.000
75	-32.651	-14.000
76	-30.855	-14.000
77	-34.080	-14.000
78	-32.537	-14.000
79	-32.530	-14.000
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81	-28.662	-14.000
82	-29.674	-14.000
83	-30.067	-14.000
84	-28.250	-14.000
85	-33.135	-14.000
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97	-48.840	-14.000
98	-54.745	-14.000
99	-49.550	-14.000
100	-42.608	-14.000
101	-53.898	-14.000
102	-50.104	-14.000
103	-44.895	-14.000
104	-43.317	-14.000
105	-45.988	-14.000
106	-53.786	-14.000

107	-44.807	-14.000
108	-44.946	-14.000
109	-41.396	-14.000
110	-50.612	-14.000
111	-42.520	-14.000
112	-39.705	-14.000
113	-41.502	-14.000
114	-41.407	-14.000
115	-44.268	-14.000
116	-44.705	-14.000
117	-42.190	-14.000
118	-61.703	-14.000
119	-56.507	-14.000
120	-40.596	-14.000
121	-42.705	-14.000
122	-45.394	-14.000
123	-52.536	-14.000
124	-55.718	-14.000
125	-48.658	-14.000
126	-39.642	-14.000
127	-43.266	-14.000
128	-45.974	-14.000
129	-48.117	-14.000
130	-52.138	-14.000
131	-45.126	-14.000
132	-45.457	-14.000
133	-47.262	-14.000
134	-41.074	-14.000
135	-47.156	-14.000
136	-40.189	-14.000
137	-49.333	-14.000
138	-44.532	-14.000
139	-50.574	-14.000
140	-50.536	-14.000
141	-44.841	-14.000
142	-43.679	-14.000
143	-48.822	-14.000
144	-42.952	-14.000
145	-47.323	-14.000
146	-47.572	-14.000
147	-48.271	-14.000

148	-49.162	-14.000
149	-53.021	-14.000
150	-53.647	-14.000
151	-47.411	-14.000
152	-46.692	-14.000
153	-68.651	-14.000
154	-53.463	-14.000
155	-49.639	-14.000
156	-49.281	-14.000
157	-57.448	-14.000
158	-52.034	-14.000
159	-47.550	-14.000
160	-62.495	-14.000
161	-56.463	-14.000
162	-50.436	-14.000
163	-50.905	-14.000
164	-55.070	-14.000
165	-59.378	-14.000
166	-46.666	-14.000
167	-49.587	-14.000
168	-70.424	-14.000
169	-49.135	-14.000
170	-58.708	-14.000
171	-56.230	-14.000
172	-55.258	-14.000
173	-55.066	-14.000
174	-53.447	-14.000
175	-57.285	-14.000
176	-61.804	-14.000
177	-54.328	-14.000
178	-63.010	-14.000
179	-58.923	-14.000
180	-57.740	-14.000

1.2. Azimuth Pattern for Co-pol, Narrow Angle (-10°~10°)



-15.69 dBW/4kHz Input power spectral density @ f=13.75GHz

▪ **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(θ)	dBW/4kHz	for	$9.2^\circ < \theta \leq 19.1^\circ$
-14	dBW/4kHz	for	$19.1^\circ < \theta \leq 180^\circ$

The v240MT Gen-II's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -15.69 dBW/ 4kHz

2.2. Azimuth Pattern for Co-pol (-10°~10°)

F=13.75GHz, -15.69 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
-10	-15.322	-7.000
-9.9	-15.814	-6.891
-9.8	-16.440	-6.781
-9.7	-17.372	-6.669
-9.6	-18.337	-6.557
-9.5	-18.521	-6.443
-9.4	-17.778	-6.328
-9.3	-17.042	-6.212
-9.2	-16.815	-6.000
-9.1	-17.171	-6.000
-9	-18.124	-6.000
-8.9	-19.478	-6.000
-8.8	-20.935	-6.000
-8.7	-22.330	-6.000
-8.6	-23.424	-6.000
-8.5	-23.950	-6.000
-8.4	-22.855	-6.000
-8.3	-19.710	-6.000
-8.2	-16.305	-6.000
-8.1	-13.647	-6.000
-8	-11.867	-6.000
-7.9	-10.783	-6.000
-7.8	-10.293	-6.000
-7.7	-10.343	-6.000
-7.6	-10.773	-6.000
-7.5	-11.418	-6.000
-7.4	-12.085	-6.000
-7.3	-12.473	-6.000
-7.2	-12.406	-6.000
-7.1	-12.035	-6.000
-7	-11.598	-6.127
-6.9	-11.385	-5.971
-6.8	-11.653	-5.813
-6.7	-12.332	-5.652
-6.6	-13.096	-5.489
-6.5	-13.455	-5.323
-6.4	-13.329	-5.154
-6.3	-13.272	-4.984
-6.2	-13.845	-4.810
-6.1	-15.440	-4.633
-6	-18.070	-4.454

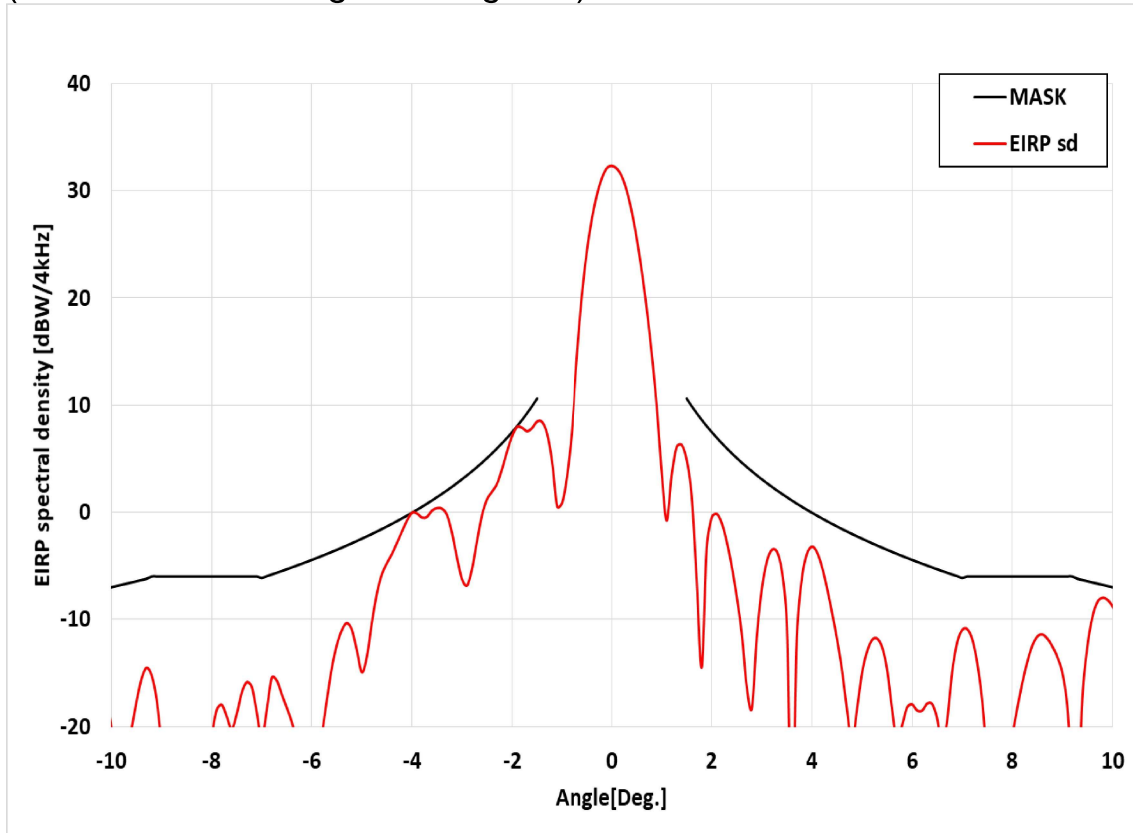
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-5.8	-21.247	-4.086
-5.7	-19.349	-3.897
-5.6	-17.910	-3.705
-5.5	-17.178	-3.509
-5.4	-16.890	-3.310
-5.3	-16.822	-3.107
-5.2	-16.956	-2.900
-5.1	-17.769	-2.689
-5	-19.718	-2.474
-4.9	-21.714	-2.255
-4.8	-18.660	-2.031
-4.7	-14.274	-1.802
-4.6	-11.338	-1.569
-4.5	-9.738	-1.330
-4.4	-9.400	-1.086
-4.3	-10.308	-0.837
-4.2	-12.326	-0.581
-4.1	-14.326	-0.320
-4	-13.264	-0.051
-3.9	-10.810	0.223
-3.8	-9.138	0.505
-3.7	-8.265	0.795
-3.6	-7.846	1.092
-3.5	-7.539	1.398
-3.4	-7.371	1.713
-3.3	-7.704	2.037
-3.2	-9.119	2.371
-3.1	-13.013	2.716
-3	-26.682	3.072
-2.9	-12.390	3.440
-2.8	-5.415	3.821
-2.7	-1.569	4.216
-2.6	0.678	4.626
-2.5	1.925	5.051
-2.4	2.555	5.495
-2.3	2.952	5.957
-2.2	3.421	6.439
-2.1	3.860	6.945
-2	3.808	7.474
-1.9	2.538	8.031

-1.8	-1.183	8.618
-1.7	-13.765	9.239
-1.6	-4.962	9.897
-1.5	2.363	10.598
-1.4	5.518	
-1.3	7.192	
-1.2	8.411	
-1.1	9.535	
-1	10.109	
-0.9	9.384	
-0.8	8.695	
-0.7	13.468	
-0.6	19.364	
-0.5	23.808	
-0.4	27.058	
-0.3	29.417	
-0.2	31.037	
-0.1	31.977	
-1.00044E-11	32.310	
0.1	32.054	
0.2	31.173	
0.3	29.636	
0.4	27.365	
0.5	24.160	
0.6	19.635	
0.7	13.109	
0.8	5.224	
0.9	7.070	
1	8.562	
1.1	7.718	
1.2	5.813	
1.3	4.114	
1.4	3.379	
1.5	2.618	10.598
1.6	1.276	9.897
1.7	-0.452	9.239
1.8	-2.199	8.618
1.9	-4.435	8.031
2	-9.239	7.474
2.1	-21.229	6.945
2.2	-7.400	6.439

2.3	-2.207	5.957
2.4	-0.112	5.495
2.5	0.267	5.051
2.6	-0.763	4.626
2.7	-3.388	4.216
2.8	-8.223	3.821
2.9	-16.971	3.440
3	-13.592	3.072
3.1	-8.644	2.716
3.2	-6.866	2.371
3.3	-6.853	2.037
3.4	-8.028	1.713
3.5	-9.279	1.398
3.6	-8.456	1.092
3.7	-6.568	0.795
3.8	-5.412	0.505
3.9	-5.489	0.223
4	-7.132	-0.051
4.1	-10.844	-0.320
4.2	-18.494	-0.581
4.3	-20.176	-0.837
4.4	-13.811	-1.086
4.5	-11.954	-1.330
4.6	-12.397	-1.569
4.7	-14.829	-1.802
4.8	-19.730	-2.031
4.9	-24.555	-2.255
5	-21.112	-2.474
5.1	-17.996	-2.689
5.2	-16.281	-2.900
5.3	-15.182	-3.107
5.4	-14.490	-3.310
5.5	-14.226	-3.509
5.6	-14.428	-3.705
5.7	-15.216	-3.897
5.8	-16.804	-4.086
5.9	-19.602	-4.271
6	-24.317	-4.454
6.1	-26.940	-4.633
6.2	-23.119	-4.810
6.3	-20.904	-4.984

6.4	-20.803	-5.154
6.5	-22.659	-5.323
6.6	-25.338	-5.489
6.7	-25.587	-5.652
6.8	-23.685	-5.813
6.9	-22.632	-5.971
7	-22.444	-6.127
7.1	-21.960	-6.000
7.2	-20.532	-6.000
7.3	-18.419	-6.000
7.4	-16.317	-6.000
7.5	-14.587	-6.000
7.6	-13.330	-6.000
7.7	-12.705	-6.000
7.8	-12.918	-6.000
7.9	-14.056	-6.000
8	-16.300	-6.000
8.1	-19.770	-6.000
8.2	-23.314	-6.000
8.3	-24.740	-6.000
8.4	-24.908	-6.000
8.5	-24.186	-6.000
8.6	-20.879	-6.000
8.7	-17.662	-6.000
8.8	-15.693	-6.000
8.9	-14.983	-6.000
9	-15.476	-6.000
9.1	-16.919	-6.000
9.2	-19.048	-6.000
9.3	-21.176	-6.212
9.4	-22.428	-6.328
9.5	-23.344	-6.443
9.6	-24.530	-6.557
9.7	-25.492	-6.669
9.8	-23.905	-6.781
9.9	-20.735	-6.891
10	-17.995	-7.000

3.2. Azimuth Pattern for Co-pol, Narrow Angle (-10°~10°)
(Maximum skew angle 45 degrees)



-15.69 dBW/4kHz Input power spectral density @ f=13.75GHz

▪ **FCC EIRP spectral density regulation**

$15-25\log(\theta)$	dBW/4kHz	for	$1.5^\circ \leq \theta \leq 7.0^\circ$
-6	dBW/4kHz	for	$7.0^\circ < \theta \leq 9.2^\circ$
$18-25\log(\theta)$	dBW/4kHz	for	$9.2^\circ < \theta \leq 19.1^\circ$
-14	dBW/4kHz	for	$19.1^\circ < \theta \leq 180^\circ$

The v240MT Gen-II's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -15.69 dBW/ 4kHz

4.2. Azimuth Pattern for Co-pol (-10°~10°) (Maximum skew angle 45 degrees)

F=13.75GHz, -15.69 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
-10	-20.300	-7.000
-9.9	-24.777	-6.891
-9.8	-25.172	-6.781
-9.7	-22.605	-6.669
-9.6	-20.161	-6.557
-9.5	-17.600	-6.443
-9.4	-15.509	-6.328
-9.3	-14.519	-6.212
-9.2	-15.231	-6.000
-9.1	-17.507	-6.000
-9	-21.604	-6.000
-8.9	-24.347	-6.000
-8.8	-22.268	-6.000
-8.7	-20.910	-6.000
-8.6	-21.498	-6.000
-8.5	-24.701	-6.000
-8.4	-31.518	-6.000
-8.3	-55.465	-6.000
-8.2	-35.944	-6.000
-8.1	-26.390	-6.000
-8	-21.101	-6.000
-7.9	-18.448	-6.000
-7.8	-17.973	-6.000
-7.7	-19.064	-6.000
-7.6	-20.235	-6.000
-7.5	-18.814	-6.000
-7.4	-16.841	-6.000
-7.3	-15.865	-6.000
-7.2	-16.298	-6.000
-7.1	-18.682	-6.000
-7	-21.260	-6.127
-6.9	-18.402	-5.971
-6.8	-15.442	-5.813
-6.7	-15.712	-5.652
-6.6	-17.009	-5.489
-6.5	-18.253	-5.323
-6.4	-19.590	-5.154
-6.3	-21.423	-4.984
-6.2	-23.114	-4.810
-6.1	-26.828	-4.633
-6	-33.929	-4.454

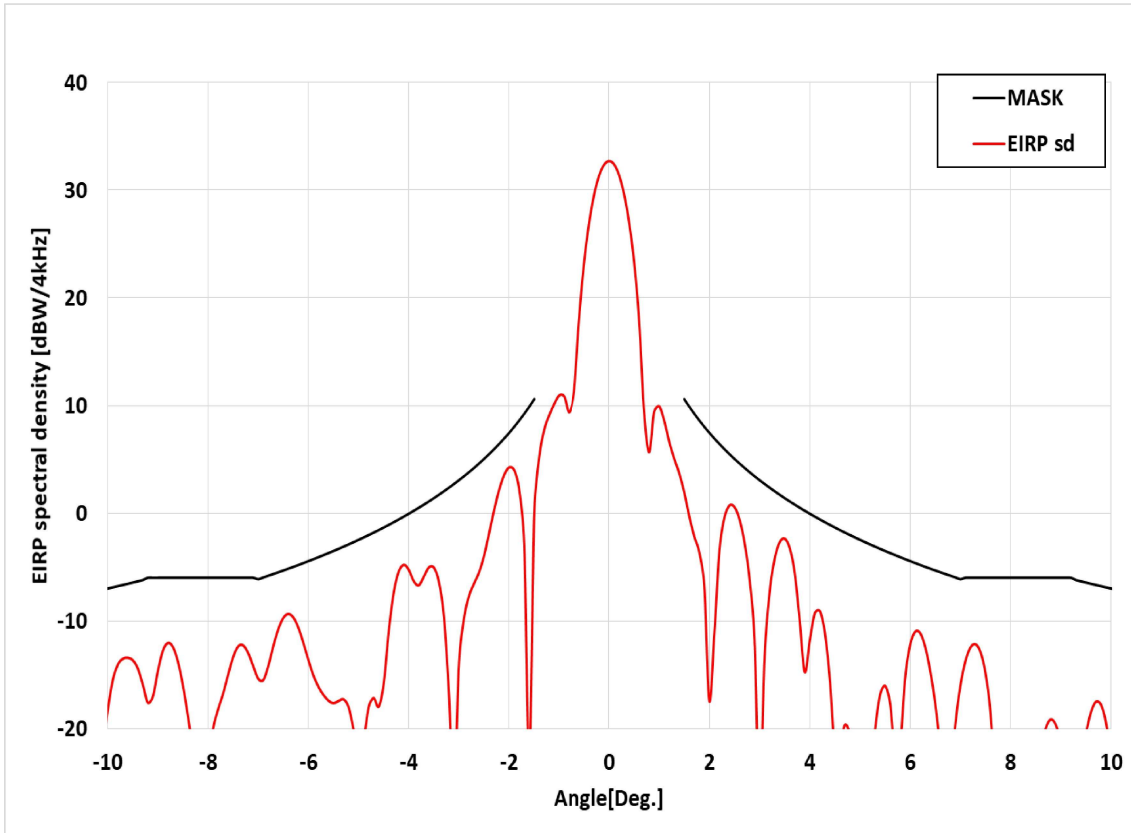
-5.9	-24.825	-4.271
-5.8	-20.867	-4.086
-5.7	-17.519	-3.897
-5.6	-14.508	-3.705
-5.5	-12.362	-3.509
-5.4	-10.998	-3.310
-5.3	-10.348	-3.107
-5.2	-10.977	-2.900
-5.1	-12.914	-2.689
-5	-14.935	-2.474
-4.9	-13.476	-2.255
-4.8	-10.272	-2.031
-4.7	-7.555	-1.802
-4.6	-5.786	-1.569
-4.5	-4.759	-1.330
-4.4	-3.898	-1.086
-4.3	-2.873	-0.837
-4.2	-1.804	-0.581
-4.1	-0.781	-0.320
-4	-0.050	-0.051
-3.9	-0.122	0.223
-3.8	-0.503	0.505
-3.7	-0.431	0.795
-3.6	0.144	1.092
-3.5	0.379	1.398
-3.4	0.322	1.713
-3.3	-0.269	2.037
-3.2	-1.954	2.371
-3.1	-4.270	2.716
-3	-6.250	3.072
-2.9	-6.842	3.440
-2.8	-5.280	3.821
-2.7	-2.653	4.216
-2.6	-0.256	4.626
-2.5	1.210	5.051
-2.4	1.916	5.495
-2.3	2.663	5.957
-2.2	4.042	6.439
-2.1	5.679	6.945
-2	7.102	7.474
-1.9	7.955	8.031

-1.8	7.870	8.618
-1.7	7.561	9.239
-1.6	7.852	9.897
-1.5	8.458	10.598
-1.4	8.409	
-1.3	7.309	
-1.2	4.659	
-1.1	0.554	
-1	0.864	
-0.9	3.400	
-0.8	7.654	
-0.7	14.323	
-0.6	19.894	
-0.5	24.089	
-0.4	27.185	
-0.3	29.456	
-0.2	31.073	
-0.1	32.061	
-1.00044E-11	32.310	
0.1	32.076	
0.2	31.378	
0.3	30.045	
0.4	28.099	
0.5	25.609	
0.6	22.577	
0.7	19.013	
0.8	14.850	
0.9	9.913	
1	3.763	
1.1	-0.783	
1.2	3.440	
1.3	6.080	
1.4	6.283	
1.5	4.876	10.598
1.6	1.487	9.897
1.7	-6.353	9.239
1.8	-14.483	8.618
1.9	-3.317	8.031
2	-0.487	7.474
2.1	-0.158	6.945
2.2	-1.029	6.439

2.3	-2.761	5.957
2.4	-5.082	5.495
2.5	-7.919	5.051
2.6	-11.362	4.626
2.7	-16.347	4.216
2.8	-18.311	3.821
2.9	-11.610	3.440
3	-7.180	3.072
3.1	-4.622	2.716
3.2	-3.513	2.371
3.3	-3.666	2.037
3.4	-5.476	1.713
3.5	-10.466	1.398
3.6	-29.788	1.092
3.7	-11.645	0.795
3.8	-6.171	0.505
3.9	-3.894	0.223
4	-3.215	-0.051
4.1	-3.731	-0.320
4.2	-5.110	-0.581
4.3	-7.058	-0.837
4.4	-9.346	-1.086
4.5	-11.824	-1.330
4.6	-14.700	-1.569
4.7	-18.420	-1.802
4.8	-21.578	-2.031
4.9	-18.383	-2.255
5	-15.022	-2.474
5.1	-13.020	-2.689
5.2	-11.935	-2.900
5.3	-11.787	-3.107
5.4	-12.583	-3.310
5.5	-14.673	-3.509
5.6	-18.372	-3.705
5.7	-21.484	-3.897
5.8	-19.899	-4.086
5.9	-18.228	-4.271
6	-17.940	-4.454
6.1	-18.507	-4.633
6.2	-18.517	-4.810
6.3	-17.868	-4.984

6.4	-17.900	-5.154
6.5	-19.248	-5.323
6.6	-21.895	-5.489
6.7	-19.412	-5.652
6.8	-14.885	-5.813
6.9	-12.146	-5.971
7	-11.004	-6.127
7.1	-10.915	-6.000
7.2	-11.847	-6.000
7.3	-14.063	-6.000
7.4	-17.660	-6.000
7.5	-23.246	-6.000
7.6	-28.162	-6.000
7.7	-26.461	-6.000
7.8	-24.556	-6.000
7.9	-23.171	-6.000
8	-20.852	-6.000
8.1	-18.278	-6.000
8.2	-15.936	-6.000
8.3	-13.964	-6.000
8.4	-12.448	-6.000
8.5	-11.607	-6.000
8.6	-11.406	-6.000
8.7	-11.793	-6.000
8.8	-12.525	-6.000
8.9	-13.523	-6.000
9	-15.011	-6.000
9.1	-18.187	-6.000
9.2	-25.446	-6.000
9.3	-28.278	-6.212
9.4	-17.326	-6.328
9.5	-12.504	-6.443
9.6	-9.785	-6.557
9.7	-8.376	-6.669
9.8	-7.998	-6.781
9.9	-8.168	-6.891
10	-8.773	-7.000

9.2. Azimuth Pattern for Co-pol, Narrow Angle (-10°~10°)



-15.69 dBW/4kHz Input power spectral density @ f=14.5GHz

▪ **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(θ)	dBW/4kHz	for	$9.2^\circ < \theta \leq 19.1^\circ$
-14	dBW/4kHz	for	$19.1^\circ < \theta \leq 180^\circ$

The v240MT Gen-II's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -15.69 dBW/ 4kHz

10.2. Azimuth Pattern for Co-pol (-10°~10°)

F=14.5GHz, -15.69 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
-10	-18.332	-7.000
-9.9	-15.521	-6.891
-9.8	-14.088	-6.781
-9.7	-13.532	-6.669
-9.6	-13.424	-6.557
-9.5	-13.666	-6.443
-9.4	-14.425	-6.328
-9.3	-15.929	-6.212
-9.2	-17.604	-6.000
-9.1	-17.041	-6.000
-9	-14.647	-6.000
-8.9	-12.771	-6.000
-8.8	-12.050	-6.000
-8.7	-12.448	-6.000
-8.6	-13.815	-6.000
-8.5	-16.039	-6.000
-8.4	-18.909	-6.000
-8.3	-22.313	-6.000
-8.2	-26.973	-6.000
-8.1	-28.371	-6.000
-8	-23.301	-6.000
-7.9	-19.997	-6.000
-7.8	-18.208	-6.000
-7.7	-16.742	-6.000
-7.6	-14.992	-6.000
-7.5	-13.357	-6.000
-7.4	-12.371	-6.000
-7.3	-12.286	-6.000
-7.2	-13.003	-6.000
-7.1	-14.227	-6.000
-7	-15.379	-6.127
-6.9	-15.492	-5.971
-6.8	-14.181	-5.813
-6.7	-12.340	-5.652
-6.6	-10.755	-5.489
-6.5	-9.726	-5.323
-6.4	-9.358	-5.154
-6.3	-9.698	-4.984
-6.2	-10.664	-4.810
-6.1	-12.077	-4.633
-6	-13.659	-4.454

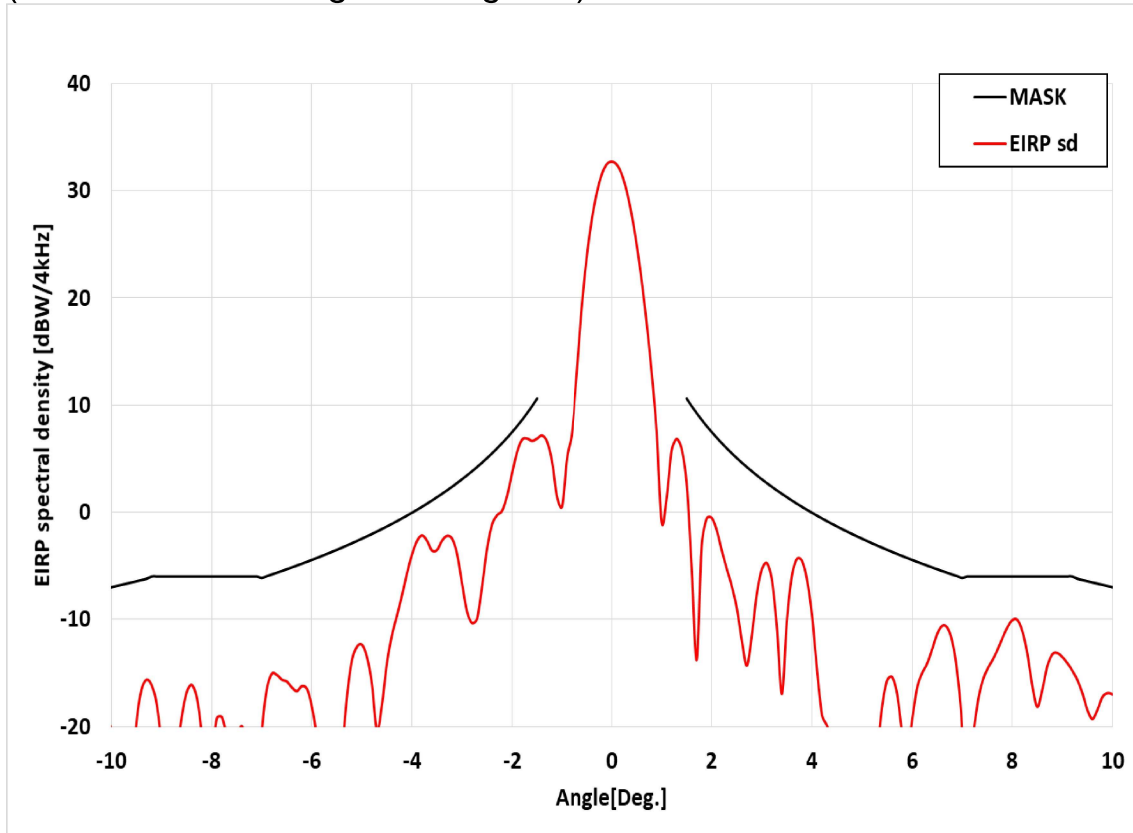
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-5.8	-16.148	-4.086
-5.7	-16.890	-3.897
-5.6	-17.423	-3.705
-5.5	-17.645	-3.509
-5.4	-17.444	-3.310
-5.3	-17.293	-3.107
-5.2	-18.022	-2.900
-5.1	-20.148	-2.689
-5	-22.867	-2.474
-4.9	-21.115	-2.255
-4.8	-17.994	-2.031
-4.7	-17.174	-1.802
-4.6	-17.969	-1.569
-4.5	-15.801	-1.330
-4.4	-10.931	-1.086
-4.3	-7.348	-0.837
-4.2	-5.407	-0.581
-4.1	-4.800	-0.320
-4	-5.273	-0.051
-3.9	-6.327	0.223
-3.8	-6.700	0.505
-3.7	-5.872	0.795
-3.6	-5.032	1.092
-3.5	-5.063	1.398
-3.4	-6.402	1.713
-3.3	-9.640	2.037
-3.2	-16.841	2.371
-3.1	-26.604	2.716
-3	-13.958	3.072
-2.9	-9.755	3.440
-2.8	-7.679	3.821
-2.7	-6.520	4.216
-2.6	-5.482	4.626
-2.5	-3.936	5.051
-2.4	-1.862	5.495
-2.3	0.297	5.957
-2.2	2.165	6.439
-2.1	3.553	6.945
-2	4.266	7.474
-1.9	4.011	8.031

-1.8	2.174	8.618
-1.7	-2.972	9.239
-1.6	-22.888	9.897
-1.5	0.010	10.598
-1.4	5.265	
-1.3	7.777	
-1.2	9.132	
-1.1	10.175	
-1	10.953	
-0.9	10.831	
-0.8	9.375	
-0.7	11.212	
-0.6	17.800	
-0.5	23.038	
-0.4	26.800	
-0.3	29.487	
-0.2	31.295	
-0.1	32.343	
-1.00044E-11	32.710	
0.1	32.419	
0.2	31.435	
0.3	29.692	
0.4	27.090	
0.5	23.369	
0.6	17.923	
0.7	9.386	
0.8	5.673	
0.9	9.424	
1	9.936	
1.1	8.627	
1.2	6.671	
1.3	5.078	
1.4	3.724	
1.5	1.939	10.598
1.6	-0.310	9.897
1.7	-2.176	9.239
1.8	-3.650	8.618
1.9	-6.773	8.031
2	-17.429	7.474
2.1	-11.228	6.945
2.2	-3.509	6.439

2.3	-0.401	5.957
2.4	0.711	5.495
2.5	0.572	5.051
2.6	-0.581	4.626
2.7	-2.730	4.216
2.8	-6.090	3.821
2.9	-11.731	3.440
3	-27.117	3.072
3.1	-13.379	2.716
3.2	-7.362	2.371
3.3	-4.261	2.037
3.4	-2.701	1.713
3.5	-2.361	1.398
3.6	-3.223	1.092
3.7	-5.557	0.795
3.8	-9.996	0.505
3.9	-14.752	0.223
4	-11.821	-0.051
4.1	-9.293	-0.320
4.2	-9.089	-0.581
4.3	-11.073	-0.837
4.4	-15.471	-1.086
4.5	-21.963	-1.330
4.6	-21.626	-1.569
4.7	-19.668	-1.802
4.8	-20.452	-2.031
4.9	-22.463	-2.255
5	-24.204	-2.474
5.1	-26.100	-2.689
5.2	-25.250	-2.900
5.3	-20.162	-3.107
5.4	-16.871	-3.310
5.5	-16.024	-3.509
5.6	-17.655	-3.705
5.7	-22.632	-3.897
5.8	-21.509	-4.086
5.9	-15.281	-4.271
6	-12.204	-4.454
6.1	-11.005	-4.633
6.2	-11.150	-4.810
6.3	-12.441	-4.984

6.4	-14.671	-5.154
6.5	-17.751	-5.323
6.6	-22.006	-5.489
6.7	-27.525	-5.652
6.8	-25.157	-5.813
6.9	-19.599	-5.971
7	-16.002	-6.127
7.1	-13.744	-6.000
7.2	-12.483	-6.000
7.3	-12.171	-6.000
7.4	-12.915	-6.000
7.5	-14.888	-6.000
7.6	-18.608	-6.000
7.7	-25.870	-6.000
7.8	-33.001	-6.000
7.9	-25.175	-6.000
8	-22.880	-6.000
8.1	-22.882	-6.000
8.2	-24.140	-6.000
8.3	-25.835	-6.000
8.4	-26.562	-6.000
8.5	-24.810	-6.000
8.6	-22.034	-6.000
8.7	-19.974	-6.000
8.8	-19.155	-6.000
8.9	-19.666	-6.000
9	-21.407	-6.000
9.1	-24.223	-6.000
9.2	-26.894	-6.000
9.3	-26.244	-6.212
9.4	-23.281	-6.328
9.5	-20.482	-6.443
9.6	-18.492	-6.557
9.7	-17.513	-6.669
9.8	-17.776	-6.781
9.9	-19.475	-6.891
10	-22.872	-7.000

11.2. Azimuth Pattern for Co-pol, Narrow Angle (-10°~10°)
(Maximum skew angle 45 degrees)



-15.69 dBW/4kHz Input power spectral density @ f=14.5GHz

▪ **FCC EIRP spectral density regulation**

$15-25\log(\theta)$	dBW/4kHz	for	$1.5^\circ \leq \theta \leq 7.0^\circ$
-6	dBW/4kHz	for	$7.0^\circ < \theta \leq 9.2^\circ$
$18-25\log(\theta)$	dBW/4kHz	for	$9.2^\circ < \theta \leq 19.1^\circ$
-14	dBW/4kHz	for	$19.1^\circ < \theta \leq 180^\circ$

The v240MT Gen-II's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -15.69 dBW/ 4kHz

12.2. Azimuth Pattern for Co-pol (-10°~10°) (Maximum skew angle 45 degrees)

F=14.5GHz, -15.69 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
-10	-20.551	-7.000
-9.9	-23.301	-6.891
-9.8	-28.532	-6.781
-9.7	-37.585	-6.669
-9.6	-26.142	-6.557
-9.5	-19.511	-6.443
-9.4	-16.499	-6.328
-9.3	-15.623	-6.212
-9.2	-16.146	-6.000
-9.1	-17.891	-6.000
-9	-22.216	-6.000
-8.9	-31.622	-6.000
-8.8	-28.879	-6.000
-8.7	-22.839	-6.000
-8.6	-19.128	-6.000
-8.5	-16.814	-6.000
-8.4	-16.104	-6.000
-8.3	-17.247	-6.000
-8.2	-20.814	-6.000
-8.1	-27.950	-6.000
-8	-23.413	-6.000
-7.9	-19.245	-6.000
-7.8	-19.097	-6.000
-7.7	-20.786	-6.000
-7.6	-22.171	-6.000
-7.5	-21.078	-6.000
-7.4	-19.956	-6.000
-7.3	-21.501	-6.000
-7.2	-28.286	-6.000
-7.1	-31.416	-6.000
-7	-20.752	-6.127
-6.9	-16.522	-5.971
-6.8	-15.081	-5.813
-6.7	-15.180	-5.652
-6.6	-15.622	-5.489
-6.5	-15.804	-5.323
-6.4	-16.343	-5.154
-6.3	-16.705	-4.984
-6.2	-16.230	-4.810
-6.1	-16.470	-4.633
-6	-18.160	-4.454

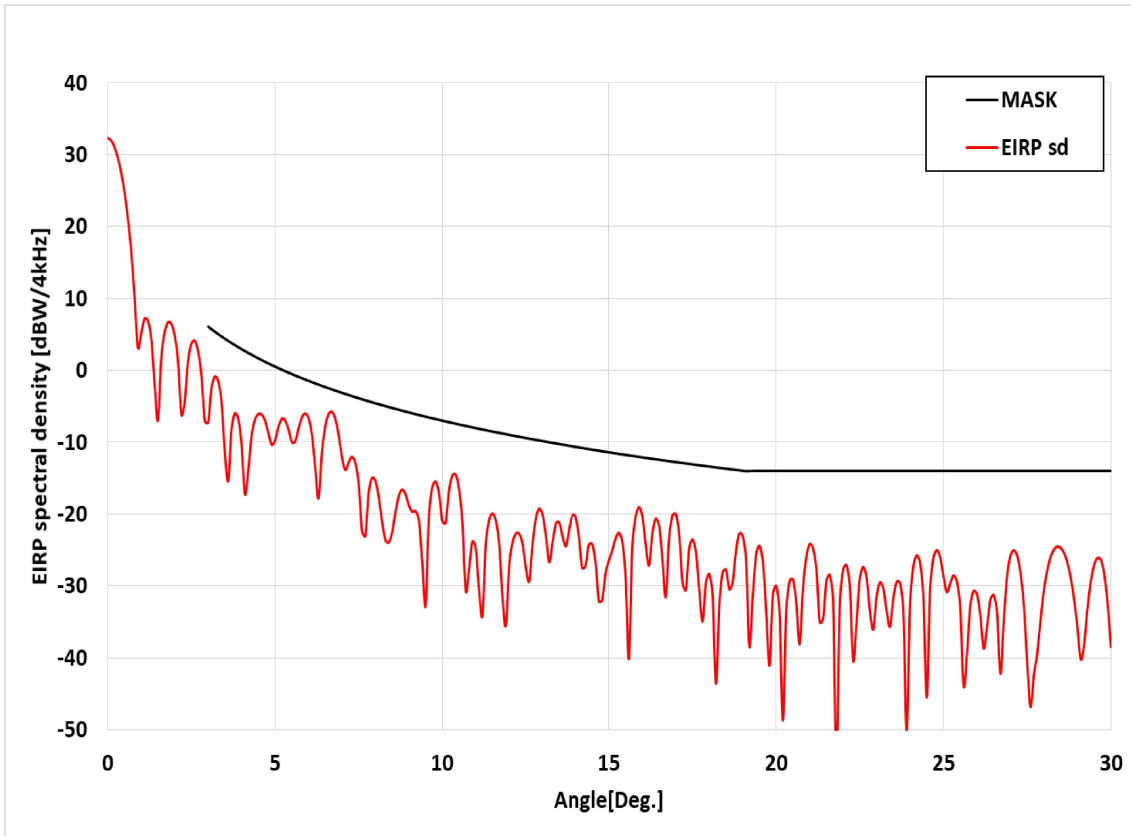
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-5.8	-27.391	-4.086
-5.7	-38.593	-3.897
-5.6	-32.621	-3.705
-5.5	-30.496	-3.509
-5.4	-22.970	-3.310
-5.3	-17.306	-3.107
-5.2	-13.839	-2.900
-5.1	-12.564	-2.689
-5	-12.367	-2.474
-4.9	-13.494	-2.255
-4.8	-16.032	-2.031
-4.7	-20.386	-1.802
-4.6	-17.975	-1.569
-4.5	-14.065	-1.330
-4.4	-11.485	-1.086
-4.3	-9.655	-0.837
-4.2	-7.779	-0.581
-4.1	-5.716	-0.320
-4	-3.949	-0.051
-3.9	-2.692	0.223
-3.8	-2.170	0.505
-3.7	-2.660	0.795
-3.6	-3.578	1.092
-3.5	-3.532	1.398
-3.4	-2.666	1.713
-3.3	-2.212	2.037
-3.2	-2.460	2.371
-3.1	-3.882	2.716
-3	-6.643	3.072
-2.9	-9.271	3.440
-2.8	-10.347	3.821
-2.7	-9.943	4.216
-2.6	-6.916	4.626
-2.5	-3.401	5.051
-2.4	-1.149	5.495
-2.3	-0.287	5.957
-2.2	0.139	6.439
-2.1	1.531	6.945
-2	3.638	7.474
-1.9	5.607	8.031

-1.8	6.772	8.618
-1.7	6.877	9.239
-1.6	6.652	9.897
-1.5	6.873	10.598
-1.4	7.158	
-1.3	6.564	
-1.2	4.667	
-1.1	1.375	
-1	0.545	
-0.9	5.066	
-0.8	7.433	
-0.7	12.869	
-0.6	18.909	
-0.5	23.620	
-0.4	27.132	
-0.3	29.674	
-0.2	31.454	
-0.1	32.438	
-1.00044E-11	32.710	
0.1	32.451	
0.2	31.574	
0.3	29.993	
0.4	27.792	
0.5	25.006	
0.6	21.622	
0.7	17.623	
0.8	13.026	
0.9	7.415	
1	-0.943	
1.1	1.338	
1.2	5.764	
1.3	6.837	
1.4	5.885	
1.5	2.632	10.598
1.6	-5.209	9.897
1.7	-13.793	9.239
1.8	-3.079	8.618
1.9	-0.589	8.031
2	-0.531	7.474
2.1	-1.700	6.945
2.2	-3.573	6.439

2.3	-5.285	5.957
2.4	-6.905	5.495
2.5	-8.949	5.051
2.6	-11.941	4.626
2.7	-14.319	4.216
2.8	-11.481	3.821
2.9	-7.613	3.440
3	-5.345	3.072
3.1	-4.746	2.716
3.2	-6.268	2.371
3.3	-10.693	2.037
3.4	-16.965	1.713
3.5	-10.136	1.398
3.6	-5.936	1.092
3.7	-4.369	0.795
3.8	-4.528	0.505
3.9	-6.259	0.223
4	-9.556	-0.051
4.1	-14.635	-0.320
4.2	-18.892	-0.581
4.3	-19.914	-0.837
4.4	-21.661	-1.086
4.5	-25.318	-1.330
4.6	-24.230	-1.569
4.7	-21.443	-1.802
4.8	-20.390	-2.031
4.9	-20.519	-2.255
5	-21.272	-2.474
5.1	-22.654	-2.689
5.2	-24.726	-2.900
5.3	-22.600	-3.107
5.4	-18.153	-3.310
5.5	-15.709	-3.509
5.6	-15.371	-3.705
5.7	-16.932	-3.897
5.8	-20.531	-4.086
5.9	-22.907	-4.271
6	-19.410	-4.454
6.1	-16.396	-4.633
6.2	-15.020	-4.810
6.3	-14.129	-4.984

6.4	-12.797	-5.154
6.5	-11.376	-5.323
6.6	-10.613	-5.489
6.7	-10.754	-5.652
6.8	-12.050	-5.813
6.9	-14.966	-5.971
7	-20.894	-6.127
7.1	-55.640	-6.000
7.2	-22.776	-6.000
7.3	-18.095	-6.000
7.4	-15.860	-6.000
7.5	-14.668	-6.000
7.6	-13.840	-6.000
7.7	-12.894	-6.000
7.8	-11.781	-6.000
7.9	-10.761	-6.000
8	-10.086	-6.000
8.1	-10.042	-6.000
8.2	-11.091	-6.000
8.3	-13.184	-6.000
8.4	-16.197	-6.000
8.5	-18.169	-6.000
8.6	-16.553	-6.000
8.7	-14.374	-6.000
8.8	-13.259	-6.000
8.9	-13.140	-6.000
9	-13.522	-6.000
9.1	-14.082	-6.000
9.2	-14.796	-6.000
9.3	-15.664	-6.212
9.4	-16.887	-6.328
9.5	-18.473	-6.443
9.6	-19.294	-6.557
9.7	-18.445	-6.669
9.8	-17.245	-6.781
9.9	-16.885	-6.891
10	-16.994	-7.000

1.4. Elevation Pattern for Co-pol, Narrow Angle (0°~30°)



-15.69 dBW/4kHz Input power spectral density @ f=13.75GHz

▪ **FCC EIRP spectral density regulation**

$18-25\log(\theta)$	dBW/4kHz	for	$3.0^\circ \leq \theta \leq 19.1^\circ$
-14	dBW/4kHz	for	$19.1^\circ < \theta \leq 180^\circ$

The v240MT Gen-II's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -15.69 dBW/ 4kHz

2.4. Elevation Pattern for Co-pol (0°~30°)

F=13.75GHz, -15.69 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
0	32.310	
0.1	31.987	
0.2	31.069	
0.3	29.589	
0.4	27.520	
0.5	24.758	
0.6	21.161	
0.7	16.514	
0.8	10.174	
0.9	3.178	
1	5.138	
1.1	7.170	
1.2	6.929	
1.3	4.459	
1.4	-1.849	
1.5	-7.001	
1.6	1.610	
1.7	5.288	
1.8	6.676	
1.9	6.466	
2	4.820	
2.1	1.207	
2.2	-6.118	
2.3	-4.350	
2.4	1.321	
2.5	3.711	
2.6	4.109	
2.7	2.697	
2.8	-0.730	
2.9	-7.015	
3	-7.267	6.072
3.1	-2.460	5.716
3.2	-0.859	5.371
3.3	-1.453	5.037
3.4	-4.344	4.713
3.5	-11.448	4.398
3.6	-15.403	4.092
3.7	-8.188	3.795
3.8	-5.985	3.505
3.9	-6.696	3.223
4	-10.301	2.949

4.1	-17.213	2.680
4.2	-13.986	2.419
4.3	-9.038	2.163
4.4	-6.850	1.914
4.5	-6.084	1.670
4.6	-6.162	1.431
4.7	-7.001	1.198
4.8	-8.705	0.969
4.9	-10.351	0.745
5	-9.774	0.526
5.1	-7.888	0.311
5.2	-6.778	0.100
5.3	-6.923	-0.107
5.4	-8.186	-0.310
5.5	-9.921	-0.509
5.6	-9.934	-0.705
5.7	-8.115	-0.897
5.8	-6.592	-1.086
5.9	-6.006	-1.271
6	-6.608	-1.454
6.1	-8.835	-1.633
6.2	-13.451	-1.810
6.3	-17.845	-1.984
6.4	-11.589	-2.154
6.5	-7.833	-2.323
6.6	-6.109	-2.489
6.7	-5.777	-2.652
6.8	-6.729	-2.813
6.9	-8.972	-2.971
7	-12.066	-3.127
7.1	-13.860	-3.281
7.2	-12.816	-3.433
7.3	-12.025	-3.583
7.4	-12.856	-3.731
7.5	-15.758	-3.877
7.6	-22.344	-4.020
7.7	-23.036	-4.162
7.8	-17.004	-4.302
7.9	-14.967	-4.441
8	-15.349	-4.577
8.1	-17.660	-4.712

8.2	-21.058	-4.845
8.3	-23.616	-4.977
8.4	-23.937	-5.107
8.5	-22.565	-5.235
8.6	-19.737	-5.362
8.7	-17.504	-5.488
8.8	-16.599	-5.612
8.9	-17.216	-5.735
9	-18.760	-5.856
9.1	-19.645	-5.976
9.2	-19.596	-6.095
9.3	-20.788	-6.212
9.4	-26.590	-6.328
9.5	-32.785	-6.443
9.6	-20.294	-6.557
9.7	-16.272	-6.669
9.8	-15.457	-6.781
9.9	-17.014	-6.891
10	-20.960	-7.000
10.1	-21.211	-7.108
10.2	-16.819	-7.215
10.3	-14.644	-7.321
10.4	-14.502	-7.426
10.5	-16.461	-7.530
10.6	-21.083	-7.633
10.7	-30.633	-7.735
10.8	-27.647	-7.836
10.9	-23.821	-7.936
11	-24.706	-8.035
11.1	-30.559	-8.133
11.2	-34.140	-8.230
11.3	-24.291	-8.327
11.4	-20.844	-8.423
11.5	-19.913	-8.517
11.6	-20.851	-8.611
11.7	-24.104	-8.705
11.8	-31.445	-8.797
11.9	-35.503	-8.889
12	-27.155	-8.980
12.1	-23.959	-9.070
12.2	-22.749	-9.159

12.3	-22.759	-9.248
12.4	-24.121	-9.336
12.5	-27.534	-9.423
12.6	-29.308	-9.509
12.7	-24.168	-9.595
12.8	-20.562	-9.680
12.9	-19.236	-9.765
13	-20.081	-9.849
13.1	-23.070	-9.932
13.2	-26.664	-10.014
13.3	-23.779	-10.096
13.4	-21.285	-10.178
13.5	-21.204	-10.258
13.6	-23.181	-10.338
13.7	-24.454	-10.418
13.8	-22.033	-10.497
13.9	-20.176	-10.575
14	-20.344	-10.653
14.1	-22.970	-10.730
14.2	-27.437	-10.807
14.3	-27.269	-10.883
14.4	-24.329	-10.959
14.5	-24.174	-11.034
14.6	-26.676	-11.109
14.7	-32.100	-11.183
14.8	-31.986	-11.257
14.9	-28.270	-11.330
15	-26.477	-11.402
15.1	-25.084	-11.474
15.2	-23.425	-11.546
15.3	-22.613	-11.617
15.4	-23.737	-11.688
15.5	-28.634	-11.758
15.6	-40.129	-11.828
15.7	-24.697	-11.897
15.8	-20.352	-11.966
15.9	-19.037	-12.035
16	-20.293	-12.103
16.1	-24.225	-12.171
16.2	-27.112	-12.238
16.3	-22.700	-12.305

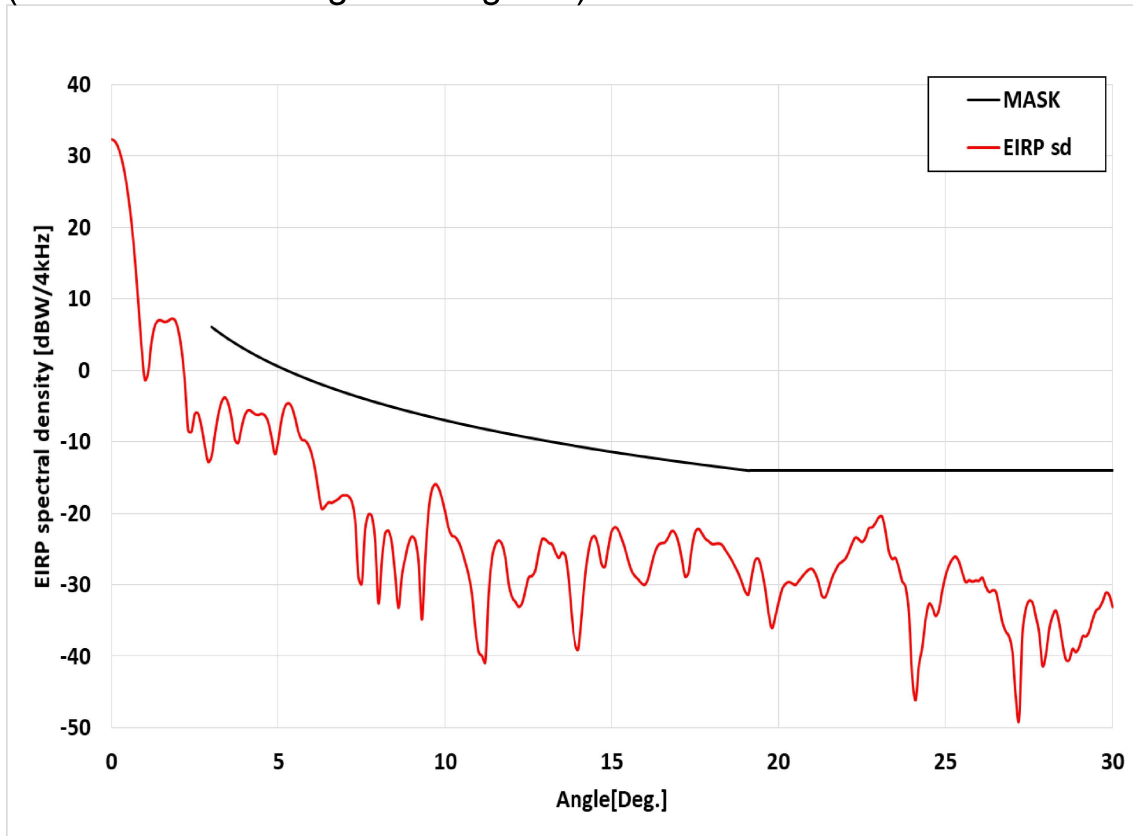
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16.5	-21.547	-12.437
16.6	-26.180	-12.503
16.7	-31.517	-12.568
16.8	-23.375	-12.633
16.9	-20.236	-12.697
17	-20.003	-12.761
17.1	-22.746	-12.825
17.2	-29.496	-12.888
17.3	-30.527	-12.951
17.4	-24.765	-13.014
17.5	-23.549	-13.076
17.6	-25.250	-13.138
17.7	-30.471	-13.199
17.8	-34.951	-13.261
17.9	-29.525	-13.321
18	-28.349	-13.382
18.1	-31.215	-13.442
18.2	-43.572	-13.502
18.3	-32.694	-13.561
18.4	-28.108	-13.620
18.5	-27.740	-13.679
18.6	-30.443	-13.738
18.7	-29.485	-13.796
18.8	-25.046	-13.854
18.9	-22.700	-13.912
19	-23.066	-13.969
19.1	-26.354	-14.026
19.2	-38.430	-14.000
19.3	-31.436	-14.000
19.4	-25.608	-14.000
19.5	-24.418	-14.000
19.6	-26.521	-14.000
19.7	-33.489	-14.000
19.8	-41.057	-14.000
19.9	-31.208	-14.000
20	-29.967	-14.000
20.1	-33.607	-14.000
20.2	-48.708	-14.000
20.3	-33.542	-14.000
20.4	-29.327	-14.000

20.5	-29.073	-14.000
20.6	-32.256	-14.000
20.7	-38.100	-14.000
20.8	-30.382	-14.000
20.9	-25.947	-14.000
21	-24.183	-14.000
21.1	-24.746	-14.000
21.2	-27.692	-14.000
21.3	-35.033	-14.000
21.4	-34.603	-14.000
21.5	-29.303	-14.000
21.6	-28.459	-14.000
21.7	-31.874	-14.000
21.8	-54.729	-14.000
21.9	-32.816	-14.000
22	-27.734	-14.000
22.1	-27.084	-14.000
22.2	-29.940	-14.000
22.3	-40.415	-14.000
22.4	-35.083	-14.000
22.5	-28.824	-14.000
22.6	-27.352	-14.000
22.7	-28.770	-14.000
22.8	-33.460	-14.000
22.9	-36.045	-14.000
23	-31.504	-14.000
23.1	-29.504	-14.000
23.2	-30.322	-14.000
23.3	-33.412	-14.000
23.4	-35.657	-14.000
23.5	-31.699	-14.000
23.6	-29.416	-14.000
23.7	-29.544	-14.000
23.8	-33.535	-14.000
23.9	-50.254	-14.000
24	-32.569	-14.000
24.1	-27.197	-14.000
24.2	-25.745	-14.000
24.3	-26.766	-14.000
24.4	-31.692	-14.000
24.5	-45.500	-14.000

24.6	-30.489	-14.000
24.7	-26.028	-14.000
24.8	-25.015	-14.000
24.9	-26.028	-14.000
25	-28.700	-14.000
25.1	-30.857	-14.000
25.2	-29.662	-14.000
25.3	-28.538	-14.000
25.4	-29.384	-14.000
25.5	-33.026	-14.000
25.6	-43.900	-14.000
25.7	-39.507	-14.000
25.8	-32.722	-14.000
25.9	-30.700	-14.000
26	-31.132	-14.000
26.1	-34.162	-14.000
26.2	-38.706	-14.000
26.3	-35.666	-14.000
26.4	-31.908	-14.000
26.5	-31.282	-14.000
26.6	-33.642	-14.000
26.7	-42.210	-14.000
26.8	-34.863	-14.000
26.9	-28.611	-14.000
27	-25.773	-14.000
27.1	-25.033	-14.000
27.2	-25.759	-14.000
27.3	-28.235	-14.000
27.4	-32.707	-14.000
27.5	-40.714	-14.000
27.6	-46.814	-14.000
27.7	-42.394	-14.000
27.8	-39.360	-14.000
27.9	-34.691	-14.000
28	-30.594	-14.000
28.1	-27.779	-14.000
28.2	-25.957	-14.000
28.3	-24.940	-14.000
28.4	-24.538	-14.000
28.5	-24.688	-14.000
28.6	-25.420	-14.000

28.7	-26.765	-14.000
28.8	-28.857	-14.000
28.9	-31.837	-14.000
29	-35.734	-14.000
29.1	-40.222	-14.000
29.2	-38.202	-14.000
29.3	-33.171	-14.000
29.4	-29.408	-14.000
29.5	-27.086	-14.000
29.6	-26.111	-14.000
29.7	-26.341	-14.000
29.8	-28.246	-14.000
29.9	-32.375	-14.000
30	-38.471	-14.000

3.4. Elevation Pattern for Co-pol, Narrow Angle (0°~30°)
(Maximum skew angle 45 degrees)



-15.69 dBW/4kHz Input power spectral density @ f=13.75GHz

▪ **FCC EIRP spectral density regulation**

$18-25\log(\theta)$	dBW/4kHz	for	$3.0^\circ \leq \theta \leq 19.1^\circ$
-14	dBW/4kHz	for	$19.1^\circ < \theta \leq 180^\circ$

The v240MT Gen-II's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -15.69 dBW/ 4kHz

4.4. Elevation Pattern for Co-pol (0°~30°) (Maximum skew angle 45 degrees)

F=13.75GHz, -15.69 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
0	32.310	
0.1	32.062	
0.2	31.235	
0.3	29.743	
0.4	27.545	
0.5	24.596	
0.6	20.696	
0.7	15.812	
0.8	9.752	
0.9	3.453	
1	-1.278	
1.1	-0.339	
1.2	3.853	
1.3	6.209	
1.4	6.947	
1.5	6.959	
1.6	6.753	
1.7	6.915	
1.8	7.212	
1.9	7.030	
2	5.696	
2.1	2.919	
2.2	-1.657	
2.3	-8.434	
2.4	-8.598	
2.5	-6.094	
2.6	-6.060	
2.7	-7.922	
2.8	-10.611	
2.9	-12.789	
3	-12.038	6.072
3.1	-9.015	5.716
3.2	-6.233	5.371
3.3	-4.430	5.037
3.4	-3.799	4.713
3.5	-4.639	4.398
3.6	-6.745	4.092
3.7	-9.693	3.795
3.8	-10.144	3.505
3.9	-8.003	3.223
4	-6.260	2.949

4.1	-5.581	2.680
4.2	-5.757	2.419
4.3	-6.134	2.163
4.4	-6.227	1.914
4.5	-6.083	1.670
4.6	-6.337	1.431
4.7	-7.288	1.198
4.8	-9.415	0.969
4.9	-11.714	0.745
5	-9.834	0.526
5.1	-6.786	0.311
5.2	-5.080	0.100
5.3	-4.611	-0.107
5.4	-5.110	-0.310
5.5	-6.640	-0.509
5.6	-8.610	-0.705
5.7	-9.683	-0.897
5.8	-9.825	-1.086
5.9	-10.441	-1.271
6	-11.744	-1.454
6.1	-13.833	-1.633
6.2	-16.849	-1.810
6.3	-19.354	-1.984
6.4	-19.039	-2.154
6.5	-18.492	-2.323
6.6	-18.525	-2.489
6.7	-18.292	-2.652
6.8	-17.990	-2.813
6.9	-17.552	-2.971
7	-17.487	-3.127
7.1	-17.620	-3.281
7.2	-18.363	-3.433
7.3	-20.942	-3.583
7.4	-28.954	-3.731
7.5	-29.857	-3.877
7.6	-22.304	-4.020
7.7	-20.144	-4.162
7.8	-20.386	-4.302
7.9	-23.771	-4.441
8	-32.571	-4.577
8.1	-26.631	-4.712

8.2	-22.813	-4.845
8.3	-22.442	-4.977
8.4	-24.161	-5.107
8.5	-28.645	-5.235
8.6	-33.224	-5.362
8.7	-28.778	-5.488
8.8	-26.300	-5.612
8.9	-24.266	-5.735
9	-23.243	-5.856
9.1	-23.764	-5.976
9.2	-26.911	-6.095
9.3	-34.866	-6.212
9.4	-26.319	-6.328
9.5	-19.693	-6.443
9.6	-16.683	-6.557
9.7	-15.927	-6.669
9.8	-16.483	-6.781
9.9	-17.917	-6.891
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10.2	-23.105	-7.215
10.3	-23.324	-7.321
10.4	-24.001	-7.426
10.5	-25.250	-7.530
10.6	-26.873	-7.633
10.7	-28.686	-7.735
10.8	-31.342	-7.836
10.9	-36.111	-7.936
11	-39.373	-8.035
11.1	-39.950	-8.133
11.2	-40.817	-8.230
11.3	-31.370	-8.327
11.4	-26.329	-8.423
11.5	-24.413	-8.517
11.6	-23.807	-8.611
11.7	-24.328	-8.705
11.8	-26.234	-8.797
11.9	-29.884	-8.889
12	-31.712	-8.980
12.1	-32.377	-9.070
12.2	-33.089	-9.159

12.3	-32.594	-9.248
12.4	-30.784	-9.336
12.5	-28.971	-9.423
12.6	-28.753	-9.509
12.7	-27.949	-9.595
12.8	-25.495	-9.680
12.9	-23.653	-9.765
13	-23.673	-9.849
13.1	-24.140	-9.932
13.2	-24.357	-10.014
13.3	-25.482	-10.096
13.4	-26.218	-10.178
13.5	-25.490	-10.258
13.6	-25.953	-10.338
13.7	-29.324	-10.418
13.8	-34.740	-10.497
13.9	-38.264	-10.575
14	-39.019	-10.653
14.1	-34.495	-10.730
14.2	-29.128	-10.807
14.3	-25.543	-10.883
14.4	-23.536	-10.959
14.5	-23.232	-11.034
14.6	-24.612	-11.109
14.7	-27.091	-11.183
14.8	-27.477	-11.257
14.9	-24.879	-11.330
15	-22.556	-11.402
15.1	-21.956	-11.474
15.2	-22.340	-11.546
15.3	-23.514	-11.617
15.4	-24.926	-11.688
15.5	-26.639	-11.758
15.6	-28.071	-11.828
15.7	-28.773	-11.897
15.8	-29.251	-11.966
15.9	-29.790	-12.035
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16.2	-27.120	-12.238
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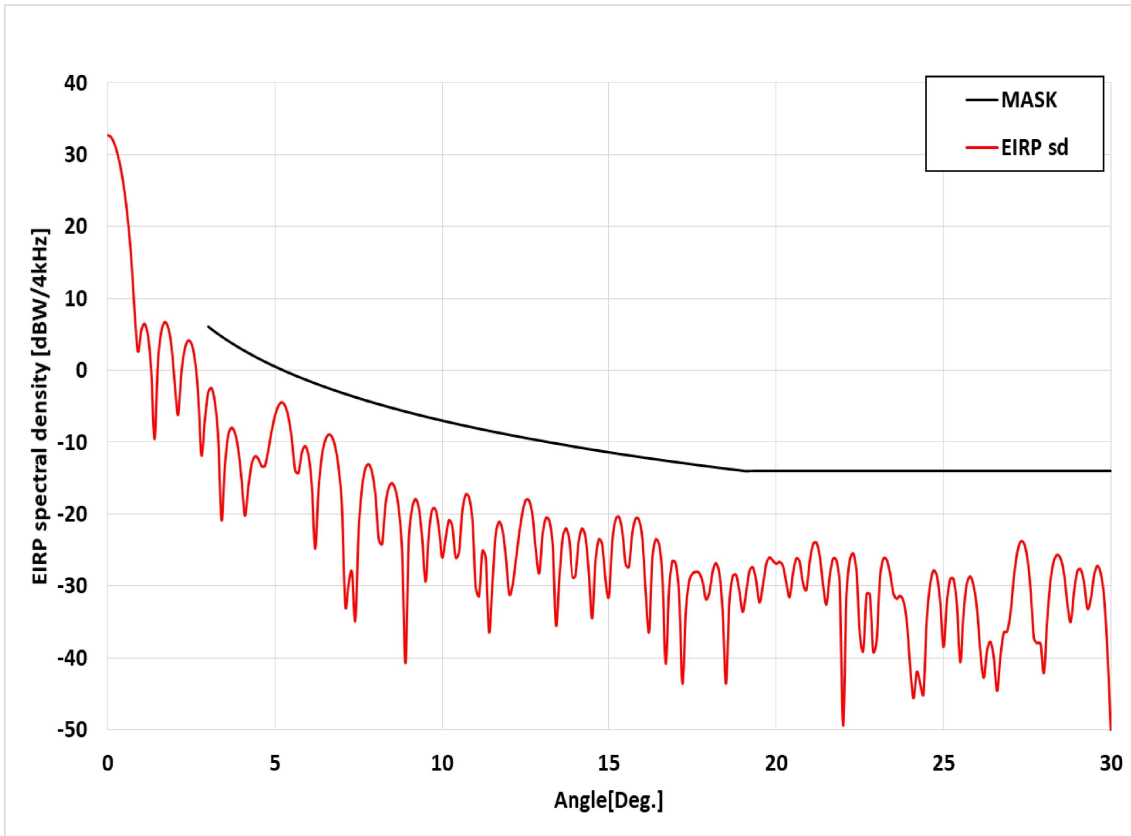
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17.5	-22.676	-13.076
17.6	-22.159	-13.138
17.7	-22.759	-13.199
17.8	-23.520	-13.261
17.9	-23.879	-13.321
18	-24.283	-13.382
18.1	-24.280	-13.442
18.2	-24.228	-13.502
18.3	-24.391	-13.561
18.4	-25.104	-13.620
18.5	-25.790	-13.679
18.6	-26.582	-13.738
18.7	-27.492	-13.796
18.8	-28.444	-13.854
18.9	-29.623	-13.912
19	-30.931	-13.969
19.1	-31.307	-14.026
19.2	-28.654	-14.000
19.3	-26.554	-14.000
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19.5	-28.064	-14.000
19.6	-30.591	-14.000
19.7	-33.960	-14.000
19.8	-36.067	-14.000
19.9	-34.475	-14.000
20	-32.489	-14.000
20.1	-30.682	-14.000
20.2	-29.913	-14.000
20.3	-29.610	-14.000
20.4	-29.782	-14.000

20.5	-30.013	-14.000
20.6	-29.493	-14.000
20.7	-28.881	-14.000
20.8	-28.338	-14.000
20.9	-27.890	-14.000
21	-27.775	-14.000
21.1	-28.436	-14.000
21.2	-29.725	-14.000
21.3	-31.559	-14.000
21.4	-31.691	-14.000
21.5	-30.513	-14.000
21.6	-29.009	-14.000
21.7	-28.007	-14.000
21.8	-27.154	-14.000
21.9	-26.775	-14.000
22	-26.341	-14.000
22.1	-25.424	-14.000
22.2	-24.212	-14.000
22.3	-23.373	-14.000
22.4	-23.647	-14.000
22.5	-24.015	-14.000
22.6	-23.443	-14.000
22.7	-22.105	-14.000
22.8	-21.968	-14.000
22.9	-21.343	-14.000
23	-20.563	-14.000
23.1	-20.480	-14.000
23.2	-22.522	-14.000
23.3	-25.358	-14.000
23.4	-26.390	-14.000
23.5	-26.278	-14.000
23.6	-27.633	-14.000
23.7	-29.517	-14.000
23.8	-30.262	-14.000
23.9	-33.852	-14.000
24	-42.898	-14.000
24.1	-46.143	-14.000
24.2	-41.315	-14.000
24.3	-38.771	-14.000
24.4	-34.872	-14.000
24.5	-32.715	-14.000

24.6	-33.153	-14.000
24.7	-34.350	-14.000
24.8	-33.489	-14.000
24.9	-30.813	-14.000
25	-28.705	-14.000
25.1	-27.331	-14.000
25.2	-26.426	-14.000
25.3	-26.078	-14.000
25.4	-26.804	-14.000
25.5	-28.333	-14.000
25.6	-29.617	-14.000
25.7	-29.366	-14.000
25.8	-29.543	-14.000
25.9	-29.399	-14.000
26	-29.427	-14.000
26.1	-29.010	-14.000
26.2	-30.209	-14.000
26.3	-31.014	-14.000
26.4	-30.791	-14.000
26.5	-30.946	-14.000
26.6	-32.960	-14.000
26.7	-35.280	-14.000
26.8	-36.519	-14.000
26.9	-37.250	-14.000
27	-39.406	-14.000
27.1	-45.694	-14.000
27.2	-48.804	-14.000
27.3	-36.854	-14.000
27.4	-33.366	-14.000
27.5	-32.229	-14.000
27.6	-32.489	-14.000
27.7	-34.435	-14.000
27.8	-36.773	-14.000
27.9	-41.321	-14.000
28	-39.768	-14.000
28.1	-36.251	-14.000
28.2	-34.381	-14.000
28.3	-33.614	-14.000
28.4	-35.357	-14.000
28.5	-38.238	-14.000
28.6	-40.457	-14.000

28.7	-40.517	-14.000
28.8	-38.986	-14.000
28.9	-39.424	-14.000
29	-38.695	-14.000
29.1	-37.219	-14.000
29.2	-37.241	-14.000
29.3	-36.492	-14.000
29.4	-34.867	-14.000
29.5	-33.618	-14.000
29.6	-33.237	-14.000
29.7	-32.308	-14.000
29.8	-31.104	-14.000
29.9	-31.460	-14.000
30	-33.106	-14.000

9.4. Elevation Pattern for Co-pol, Narrow Angle (0°~30°)



-15.69 dBW/4kHz Input power spectral density @ f=14.5GHz

▪ **FCC EIRP spectral density regulation**

$18-25\log(\theta)$	dBW/4kHz	for	$3.0^\circ \leq \theta \leq 19.1^\circ$
-14	dBW/4kHz	for	$19.1^\circ < \theta \leq 180^\circ$

The v240MT Gen-II's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -15.69 dBW/ 4kHz

10.4. Elevation Pattern for Co-pol (0°~30°)

F=14.5GHz, -15.69 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
0	32.710	
0.1	32.422	
0.2	31.500	
0.3	29.960	
0.4	27.764	
0.5	24.797	
0.6	20.845	
0.7	15.567	
0.8	8.275	
0.9	2.640	
1	5.519	
1.1	6.470	
1.2	4.849	
1.3	-0.167	
1.4	-9.557	
1.5	1.093	
1.6	5.408	
1.7	6.694	
1.8	6.020	
1.9	3.458	
2	-1.804	
2.1	-6.184	
2.2	-0.319	
2.3	2.953	
2.4	4.126	
2.5	3.720	
2.6	1.583	
2.7	-3.173	
2.8	-11.788	
2.9	-7.012	
3	-3.071	6.072
3.1	-2.460	5.716
3.2	-4.413	5.371
3.3	-9.425	5.037
3.4	-20.829	4.713
3.5	-13.388	4.398
3.6	-9.011	4.092
3.7	-7.970	3.795
3.8	-8.717	3.505
3.9	-10.973	3.223
4	-15.208	2.949

4.1	-20.205	2.680
4.2	-16.317	2.419
4.3	-13.036	2.163
4.4	-11.963	1.914
4.5	-12.311	1.670
4.6	-13.327	1.431
4.7	-13.254	1.198
4.8	-11.067	0.969
4.9	-8.400	0.745
5	-6.287	0.526
5.1	-4.945	0.311
5.2	-4.465	0.100
5.3	-4.933	-0.107
5.4	-6.498	-0.310
5.5	-9.513	-0.509
5.6	-13.905	-0.705
5.7	-14.247	-0.897
5.8	-11.466	-1.086
5.9	-10.545	-1.271
6	-11.805	-1.454
6.1	-16.086	-1.633
6.2	-24.788	-1.810
6.3	-16.694	-1.984
6.4	-11.938	-2.154
6.5	-9.758	-2.323
6.6	-8.959	-2.489
6.7	-9.250	-2.652
6.8	-10.693	-2.813
6.9	-13.613	-2.971
7	-19.041	-3.127
7.1	-32.760	-3.281
7.2	-29.675	-3.433
7.3	-28.088	-3.583
7.4	-34.835	-3.731
7.5	-22.310	-3.877
7.6	-16.379	-4.020
7.7	-13.667	-4.162
7.8	-13.048	-4.302
7.9	-14.161	-4.441
8	-17.290	-4.577
8.1	-23.529	-4.712

8.2	-24.162	-4.845
8.3	-18.735	-4.977
8.4	-16.295	-5.107
8.5	-15.710	-5.235
8.6	-16.629	-5.362
8.7	-19.341	-5.488
8.8	-25.368	-5.612
8.9	-40.734	-5.735
9	-23.590	-5.856
9.1	-19.127	-5.976
9.2	-17.893	-6.095
9.3	-19.137	-6.212
9.4	-23.477	-6.328
9.5	-29.387	-6.443
9.6	-22.587	-6.557
9.7	-19.353	-6.669
9.8	-19.365	-6.781
9.9	-22.055	-6.891
10	-26.037	-7.000
10.1	-23.343	-7.108
10.2	-20.870	-7.215
10.3	-21.690	-7.321
10.4	-26.041	-7.426
10.5	-25.352	-7.530
10.6	-19.561	-7.633
10.7	-17.285	-7.735
10.8	-17.670	-7.836
10.9	-20.849	-7.936
11	-30.249	-8.035
11.1	-31.399	-8.133
11.2	-25.106	-8.230
11.3	-26.087	-8.327
11.4	-36.409	-8.423
11.5	-29.559	-8.517
11.6	-22.685	-8.611
11.7	-21.076	-8.705
11.8	-22.195	-8.797
11.9	-25.919	-8.889
12	-31.126	-8.980
12.1	-29.912	-9.070
12.2	-26.372	-9.159

12.3	-22.682	-9.248
12.4	-19.680	-9.336
12.5	-18.044	-9.423
12.6	-18.150	-9.509
12.7	-20.264	-9.595
12.8	-25.191	-9.680
12.9	-28.198	-9.765
13	-22.804	-9.849
13.1	-20.520	-9.932
13.2	-20.915	-10.014
13.3	-24.304	-10.096
13.4	-35.474	-10.178
13.5	-28.918	-10.258
13.6	-23.257	-10.338
13.7	-22.001	-10.418
13.8	-23.657	-10.497
13.9	-28.725	-10.575
14	-28.578	-10.653
14.1	-23.744	-10.730
14.2	-22.019	-10.807
14.3	-23.117	-10.883
14.4	-28.127	-10.959
14.5	-34.491	-11.034
14.6	-26.464	-11.109
14.7	-23.517	-11.183
14.8	-24.223	-11.257
14.9	-29.201	-11.330
15	-31.465	-11.402
15.1	-23.989	-11.474
15.2	-20.767	-11.546
15.3	-20.357	-11.617
15.4	-22.372	-11.688
15.5	-26.906	-11.758
15.6	-27.325	-11.828
15.7	-22.673	-11.897
15.8	-20.619	-11.966
15.9	-20.806	-12.035
16	-23.364	-12.103
16.1	-30.857	-12.171
16.2	-36.374	-12.238
16.3	-26.081	-12.305

16.4	-23.532	-12.371
16.5	-24.174	-12.437
16.6	-28.637	-12.503
16.7	-40.812	-12.568
16.8	-30.402	-12.633
16.9	-26.559	-12.697
17	-26.906	-12.761
17.1	-31.349	-12.825
17.2	-43.576	-12.888
17.3	-33.488	-12.951
17.4	-29.326	-13.014
17.5	-28.279	-13.076
17.6	-28.040	-13.138
17.7	-28.201	-13.199
17.8	-29.389	-13.261
17.9	-31.849	-13.321
18	-31.007	-13.382
18.1	-28.023	-13.442
18.2	-26.829	-13.502
18.3	-28.212	-13.561
18.4	-33.622	-13.620
18.5	-43.569	-13.679
18.6	-32.268	-13.738
18.7	-28.664	-13.796
18.8	-28.452	-13.854
18.9	-30.718	-13.912
19	-33.597	-13.969
19.1	-30.951	-14.026
19.2	-27.943	-14.000
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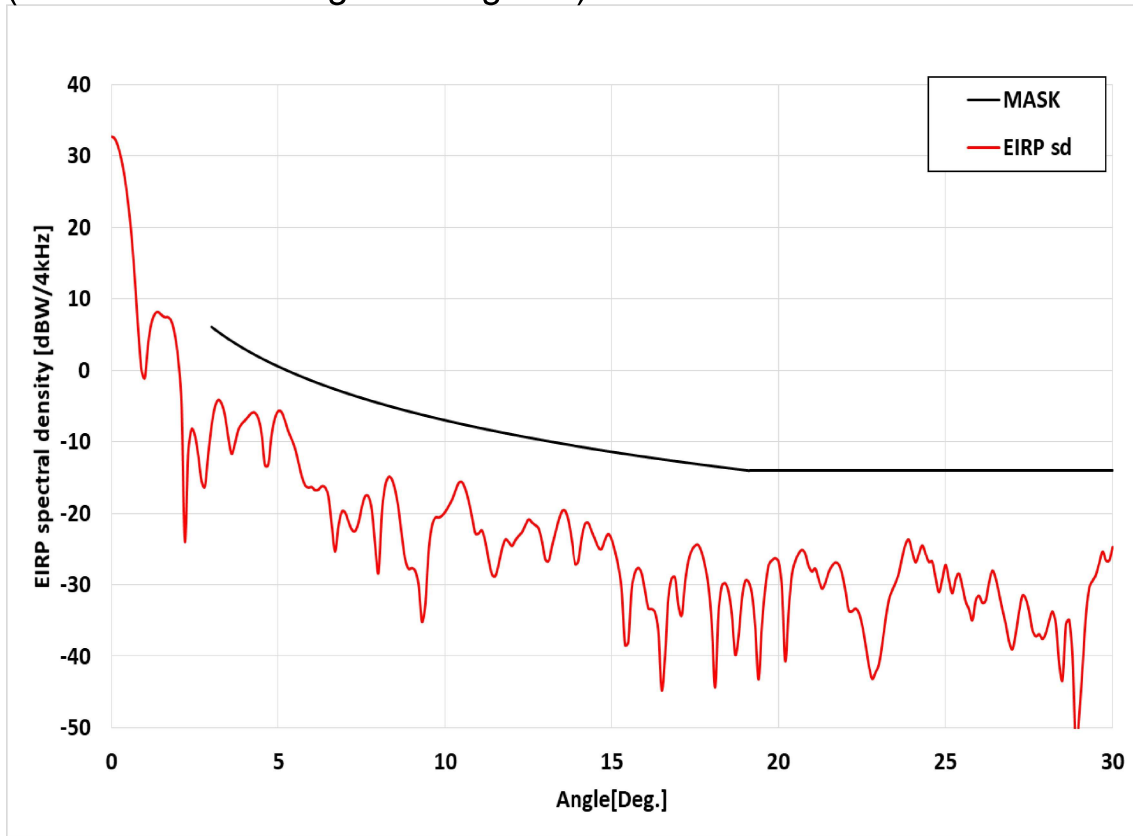
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21.1	-24.222	-14.000
21.2	-23.969	-14.000
21.3	-25.821	-14.000
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21.6	-28.567	-14.000
21.7	-26.193	-14.000
21.8	-26.407	-14.000
21.9	-29.953	-14.000
22	-49.411	-14.000
22.1	-31.292	-14.000
22.2	-26.367	-14.000
22.3	-25.447	-14.000
22.4	-27.995	-14.000
22.5	-36.838	-14.000
22.6	-39.039	-14.000
22.7	-31.147	-14.000
22.8	-31.261	-14.000
22.9	-39.146	-14.000
23	-37.760	-14.000
23.1	-28.887	-14.000
23.2	-26.222	-14.000
23.3	-26.331	-14.000
23.4	-28.212	-14.000
23.5	-31.026	-14.000
23.6	-31.779	-14.000
23.7	-31.363	-14.000
23.8	-32.079	-14.000
23.9	-34.905	-14.000
24	-41.058	-14.000
24.1	-45.607	-14.000
24.2	-41.979	-14.000
24.3	-43.502	-14.000
24.4	-45.052	-14.000
24.5	-34.703	-14.000

24.6	-29.828	-14.000
24.7	-27.844	-14.000
24.8	-28.576	-14.000
24.9	-32.296	-14.000
25	-38.487	-14.000
25.1	-32.243	-14.000
25.2	-29.036	-14.000
25.3	-29.072	-14.000
25.4	-32.716	-14.000
25.5	-40.591	-14.000
25.6	-33.699	-14.000
25.7	-29.577	-14.000
25.8	-28.677	-14.000
25.9	-30.006	-14.000
26	-33.202	-14.000
26.1	-39.152	-14.000
26.2	-42.768	-14.000
26.3	-38.966	-14.000
26.4	-37.773	-14.000
26.5	-39.904	-14.000
26.6	-44.588	-14.000
26.7	-39.756	-14.000
26.8	-36.508	-14.000
26.9	-36.322	-14.000
27	-33.783	-14.000
27.1	-28.916	-14.000
27.2	-25.398	-14.000
27.3	-23.832	-14.000
27.4	-24.055	-14.000
27.5	-26.011	-14.000
27.6	-30.514	-14.000
27.7	-37.253	-14.000
27.8	-37.962	-14.000
27.9	-38.049	-14.000
28	-42.084	-14.000
28.1	-34.589	-14.000
28.2	-29.119	-14.000
28.3	-26.453	-14.000
28.4	-25.678	-14.000
28.5	-26.198	-14.000
28.6	-28.334	-14.000

28.7	-32.509	-14.000
28.8	-34.979	-14.000
28.9	-30.758	-14.000
29	-27.919	-14.000
29.1	-27.708	-14.000
29.2	-29.600	-14.000
29.3	-33.155	-14.000
29.4	-31.792	-14.000
29.5	-28.483	-14.000
29.6	-27.199	-14.000
29.7	-28.288	-14.000
29.8	-31.655	-14.000
29.9	-39.596	-14.000
30	-50.259	-14.000

11.4. Elevation Pattern for Co-pol, Narrow Angle (0°~30°)

(Maximum skew angle 45 degrees)



-15.69 dBW/4kHz Input power spectral density @ f=14.5GHz

▪ **FCC EIRP spectral density regulation**

$18-25\log(\theta)$	dBW/4kHz	for	$3.0^\circ \leq \theta \leq 19.1^\circ$
-14	dBW/4kHz	for	$19.1^\circ < \theta \leq 180^\circ$

The v240MT Gen-II's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -15.69 dBW/ 4kHz

12.4. Elevation Pattern for Co-pol (0°~30°) (Maximum skew angle 45 degrees)

F=14.5GHz, -15.69 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
0	32.710	
0.1	32.415	
0.2	31.327	
0.3	29.509	
0.4	26.952	
0.5	23.485	
0.6	18.918	
0.7	12.947	
0.8	5.851	
0.9	0.053	
1	-1.073	
1.1	3.704	
1.2	6.624	
1.3	7.873	
1.4	8.140	
1.5	7.739	
1.6	7.435	
1.7	7.403	
1.8	6.851	
1.9	4.965	
2	1.561	
2.1	-4.641	
2.2	-23.953	
2.3	-11.579	
2.4	-8.259	
2.5	-9.082	
2.6	-11.851	
2.7	-15.482	
2.8	-16.291	
2.9	-11.806	
3	-7.755	6.072
3.1	-5.133	5.716
3.2	-4.145	5.371
3.3	-4.629	5.037
3.4	-6.318	4.713
3.5	-9.342	4.398
3.6	-11.661	4.092
3.7	-10.251	3.795
3.8	-8.369	3.505
3.9	-7.526	3.223
4	-7.023	2.949

4.1	-6.484	2.680
4.2	-5.985	2.419
4.3	-5.951	2.163
4.4	-6.719	1.914
4.5	-8.906	1.670
4.6	-13.259	1.431
4.7	-13.209	1.198
4.8	-9.031	0.969
4.9	-6.652	0.745
5	-5.703	0.526
5.1	-5.873	0.311
5.2	-7.073	0.100
5.3	-8.553	-0.107
5.4	-9.646	-0.310
5.5	-10.949	-0.509
5.6	-12.846	-0.705
5.7	-14.793	-0.897
5.8	-16.060	-1.086
5.9	-16.392	-1.271
6	-16.327	-1.454
6.1	-16.768	-1.633
6.2	-16.691	-1.810
6.3	-16.235	-1.984
6.4	-16.384	-2.154
6.5	-17.607	-2.323
6.6	-21.665	-2.489
6.7	-25.339	-2.652
6.8	-21.788	-2.813
6.9	-19.785	-2.971
7	-19.887	-3.127
7.1	-21.147	-3.281
7.2	-22.264	-3.433
7.3	-22.476	-3.583
7.4	-21.348	-3.731
7.5	-19.153	-3.877
7.6	-17.623	-4.020
7.7	-17.647	-4.162
7.8	-19.485	-4.302
7.9	-24.445	-4.441
8	-28.330	-4.577
8.1	-20.023	-4.712

8.2	-16.175	-4.845
8.3	-14.931	-4.977
8.4	-15.226	-5.107
8.5	-16.790	-5.235
8.6	-19.350	-5.362
8.7	-23.155	-5.488
8.8	-26.442	-5.612
8.9	-27.753	-5.735
9	-27.664	-5.856
9.1	-28.060	-5.976
9.2	-29.993	-6.095
9.3	-35.154	-6.212
9.4	-32.823	-6.328
9.5	-25.424	-6.443
9.6	-21.773	-6.557
9.7	-20.622	-6.669
9.8	-20.583	-6.781
9.9	-20.342	-6.891
10	-19.780	-7.000
10.1	-19.009	-7.108
10.2	-18.148	-7.215
10.3	-16.901	-7.321
10.4	-15.794	-7.426
10.5	-15.645	-7.530
10.6	-16.595	-7.633
10.7	-18.290	-7.735
10.8	-20.495	-7.836
10.9	-22.810	-7.936
11	-22.818	-8.035
11.1	-22.420	-8.133
11.2	-23.975	-8.230
11.3	-26.530	-8.327
11.4	-28.543	-8.423
11.5	-28.758	-8.517
11.6	-27.145	-8.611
11.7	-24.949	-8.705
11.8	-23.674	-8.797
11.9	-24.029	-8.889
12	-24.573	-8.980
12.1	-23.759	-9.070
12.2	-23.152	-9.159

12.3	-22.638	-9.248
12.4	-21.650	-9.336
12.5	-20.854	-9.423
12.6	-21.290	-9.509
12.7	-21.662	-9.595
12.8	-22.162	-9.680
12.9	-24.011	-9.765
13	-26.490	-9.849
13.1	-26.633	-9.932
13.2	-24.514	-10.014
13.3	-22.688	-10.096
13.4	-20.918	-10.178
13.5	-19.688	-10.258
13.6	-19.725	-10.338
13.7	-21.226	-10.418
13.8	-23.983	-10.497
13.9	-27.062	-10.575
14	-26.780	-10.653
14.1	-23.587	-10.730
14.2	-21.542	-10.807
14.3	-21.341	-10.883
14.4	-22.467	-10.959
14.5	-23.593	-11.034
14.6	-24.724	-11.109
14.7	-24.976	-11.183
14.8	-23.746	-11.257
14.9	-22.914	-11.330
15	-23.623	-11.402
15.1	-25.278	-11.474
15.2	-27.374	-11.546
15.3	-30.568	-11.617
15.4	-38.381	-11.688
15.5	-38.053	-11.758
15.6	-30.679	-11.828
15.7	-28.314	-11.897
15.8	-27.637	-11.966
15.9	-28.397	-12.035
16	-30.805	-12.103
16.1	-33.271	-12.171
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16.3	-33.840	-12.305

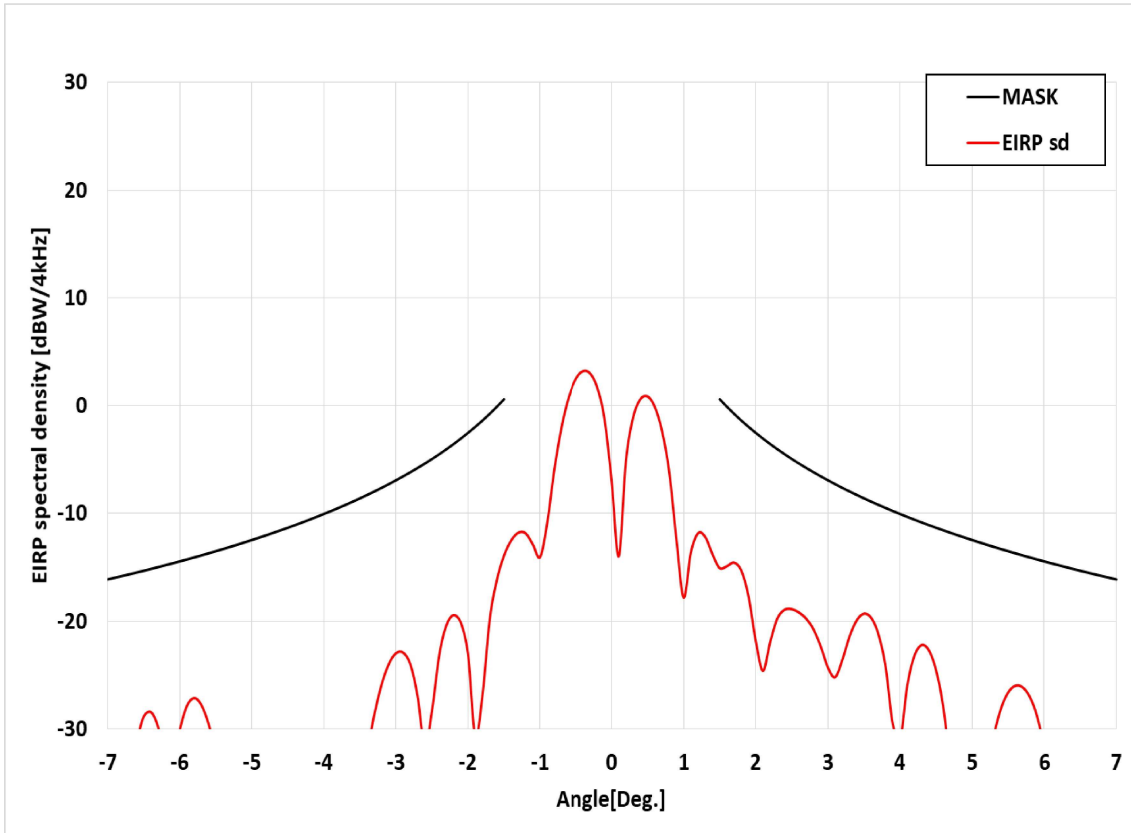
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16.7	-31.820	-12.568
16.8	-29.124	-12.633
16.9	-28.977	-12.697
17	-32.832	-12.761
17.1	-34.261	-12.825
17.2	-29.705	-12.888
17.3	-26.643	-12.951
17.4	-25.207	-13.014
17.5	-24.532	-13.076
17.6	-24.457	-13.138
17.7	-25.508	-13.199
17.8	-27.404	-13.261
17.9	-30.224	-13.321
18	-35.536	-13.382
18.1	-44.360	-13.442
18.2	-33.965	-13.502
18.3	-30.175	-13.561
18.4	-29.771	-13.620
18.5	-30.941	-13.679
18.6	-34.160	-13.738
18.7	-39.749	-13.796
18.8	-37.266	-13.854
18.9	-32.106	-13.912
19	-29.473	-13.969
19.1	-29.569	-14.026
19.2	-31.231	-14.000
19.3	-35.893	-14.000
19.4	-43.235	-14.000
19.5	-35.752	-14.000
19.6	-30.517	-14.000
19.7	-27.310	-14.000
19.8	-26.589	-14.000
19.9	-26.295	-14.000
20	-26.766	-14.000
20.1	-30.407	-14.000
20.2	-40.679	-14.000
20.3	-33.708	-14.000
20.4	-28.555	-14.000

20.5	-26.665	-14.000
20.6	-25.655	-14.000
20.7	-25.123	-14.000
20.8	-25.669	-14.000
20.9	-27.384	-14.000
21	-28.135	-14.000
21.1	-27.743	-14.000
21.2	-29.239	-14.000
21.3	-30.530	-14.000
21.4	-29.695	-14.000
21.5	-28.235	-14.000
21.6	-27.331	-14.000
21.7	-26.903	-14.000
21.8	-27.181	-14.000
21.9	-28.497	-14.000
22	-30.837	-14.000
22.1	-33.598	-14.000
22.2	-33.699	-14.000
22.3	-33.328	-14.000
22.4	-33.894	-14.000
22.5	-35.612	-14.000
22.6	-38.263	-14.000
22.7	-41.225	-14.000
22.8	-43.148	-14.000
22.9	-42.265	-14.000
23	-41.180	-14.000
23.1	-38.359	-14.000
23.2	-34.910	-14.000
23.3	-32.138	-14.000
23.4	-30.790	-14.000
23.5	-29.706	-14.000
23.6	-28.372	-14.000
23.7	-26.142	-14.000
23.8	-24.351	-14.000
23.9	-23.708	-14.000
24	-25.369	-14.000
24.1	-26.834	-14.000
24.2	-25.677	-14.000
24.3	-24.511	-14.000
24.4	-25.664	-14.000
24.5	-26.798	-14.000

24.6	-26.776	-14.000
24.7	-29.005	-14.000
24.8	-31.037	-14.000
24.9	-29.242	-14.000
25	-27.237	-14.000
25.1	-29.303	-14.000
25.2	-31.175	-14.000
25.3	-29.256	-14.000
25.4	-28.460	-14.000
25.5	-30.234	-14.000
25.6	-32.352	-14.000
25.7	-33.441	-14.000
25.8	-34.962	-14.000
25.9	-32.179	-14.000
26	-31.529	-14.000
26.1	-32.521	-14.000
26.2	-32.223	-14.000
26.3	-29.682	-14.000
26.4	-28.045	-14.000
26.5	-29.158	-14.000
26.6	-31.262	-14.000
26.7	-33.499	-14.000
26.8	-35.527	-14.000
26.9	-37.966	-14.000
27	-39.008	-14.000
27.1	-36.780	-14.000
27.2	-33.736	-14.000
27.3	-31.526	-14.000
27.4	-31.966	-14.000
27.5	-33.748	-14.000
27.6	-36.362	-14.000
27.7	-37.195	-14.000
27.8	-36.931	-14.000
27.9	-37.572	-14.000
28	-36.753	-14.000
28.1	-35.033	-14.000
28.2	-33.773	-14.000
28.3	-35.462	-14.000
28.4	-41.055	-14.000
28.5	-43.265	-14.000
28.6	-35.564	-14.000

28.7	-34.924	-14.000
28.8	-40.206	-14.000
28.9	-52.953	-14.000
29	-48.125	-14.000
29.1	-41.418	-14.000
29.2	-34.282	-14.000
29.3	-30.413	-14.000
29.4	-29.424	-14.000
29.5	-28.571	-14.000
29.6	-26.911	-14.000
29.7	-25.382	-14.000
29.8	-26.599	-14.000
29.9	-26.557	-14.000
30	-24.721	-14.000

1.3. Azimuth Pattern for Cross-pol, Narrow angle (-7°~7°)



-15.69 dBW/4kHz Input power spectral density @ f=13.75GHz

▪ **FCC EIRP spectral density regulation**

$5-25\log(\theta)$	dBW/4kHz	for	$1.5^\circ \leq \theta \leq 7.0^\circ$
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The v240MT Gen-II's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -15.69 dBW/ 4kHz

2.3. Azimuth Pattern for Cross-pol (-7°~7°)

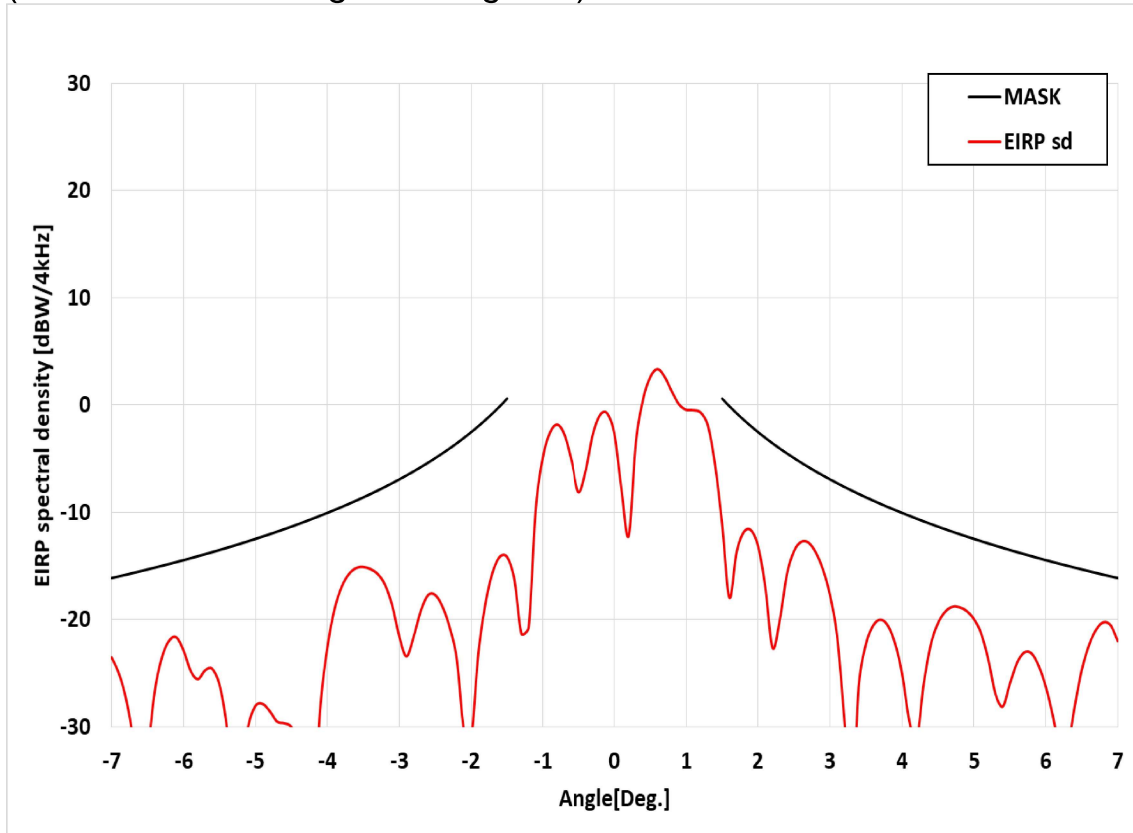
F=13.75GHz, -15.69 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
-7	-30.487	-16.127
-6.9	-31.593	-15.971
-6.8	-34.700	-15.813
-6.7	-35.274	-15.652
-6.6	-31.395	-15.489
-6.5	-28.872	-15.323
-6.4	-28.433	-15.154
-6.3	-29.830	-14.984
-6.2	-32.754	-14.810
-6.1	-33.370	-14.633
-6	-30.110	-14.454
-5.9	-27.860	-14.271
-5.8	-27.135	-14.086
-5.7	-27.773	-13.897
-5.6	-29.538	-13.705
-5.5	-32.020	-13.509
-5.4	-34.551	-13.310
-5.3	-36.406	-13.107
-5.2	-37.249	-12.900
-5.1	-36.394	-12.689
-5	-35.224	-12.474
-4.9	-35.364	-12.255
-4.8	-38.425	-12.031
-4.7	-49.843	-11.802
-4.6	-40.181	-11.569
-4.5	-33.765	-11.330
-4.4	-31.383	-11.086
-4.3	-31.463	-10.837
-4.2	-33.913	-10.581
-4.1	-41.064	-10.320
-4	-47.201	-10.051
-3.9	-36.192	-9.777
-3.8	-33.014	-9.495
-3.7	-32.353	-9.205
-3.6	-33.241	-8.908
-3.5	-33.989	-8.602
-3.4	-31.970	-8.287
-3.3	-28.653	-7.963
-3.2	-25.886	-7.629
-3.1	-23.989	-7.284
-3	-22.986	-6.928

-2.9	-22.920	-6.560
-2.8	-24.023	-6.179
-2.7	-26.959	-5.784
-2.6	-31.630	-5.374
-2.5	-28.285	-4.949
-2.4	-23.168	-4.505
-2.3	-20.373	-4.043
-2.2	-19.430	-3.561
-2.1	-20.143	-3.055
-2	-23.075	-2.526
-1.9	-30.712	-1.969
-1.8	-26.876	-1.382
-1.7	-19.891	-0.761
-1.6	-16.181	-0.103
-1.5	-13.897	0.598
-1.4	-12.497	
-1.3	-11.788	
-1.2	-11.856	
-1.1	-12.908	
-1	-14.052	
-0.9	-10.814	
-0.8	-5.809	
-0.7	-1.921	
-0.6	0.787	
-0.5	2.447	
-0.4	3.192	
-0.3	3.011	
-0.2	1.705	
-0.1	-1.159	
-7.09655E-13	-6.932	
0.1	-13.984	
0.2	-5.113	
0.3	-1.084	
0.4	0.600	
0.5	0.859	
0.6	-0.120	
0.7	-2.360	
0.8	-6.152	
0.9	-12.436	
1	-17.822	
1.1	-13.634	

1.2	-11.843	
1.3	-12.195	
1.4	-13.798	
1.5	-15.075	0.598
1.6	-14.898	-0.103
1.7	-14.567	-0.761
1.8	-15.300	-1.382
1.9	-17.711	-1.969
2	-21.842	-2.526
2.1	-24.615	-3.055
2.2	-21.940	-3.561
2.3	-19.744	-4.043
2.4	-18.942	-4.505
2.5	-18.890	-4.949
2.6	-19.208	-5.374
2.7	-19.784	-5.784
2.8	-20.766	-6.179
2.9	-22.337	-6.560
3	-24.311	-6.928
3.1	-25.200	-7.284
3.2	-23.591	-7.629
3.3	-21.414	-7.963
3.4	-19.920	-8.287
3.5	-19.313	-8.602
3.6	-19.695	-8.908
3.7	-21.216	-9.205
3.8	-24.259	-9.495
3.9	-29.575	-9.777
4	-31.048	-10.051
4.1	-25.990	-10.320
4.2	-23.197	-10.581
4.3	-22.214	-10.837
4.4	-22.706	-11.086
4.5	-24.578	-11.330
4.6	-28.016	-11.569
4.7	-33.911	-11.802
4.8	-43.327	-12.031
4.9	-41.740	-12.255
5	-40.071	-12.474
5.1	-39.003	-12.689
5.2	-34.699	-12.900

5.3	-30.688	-13.107
5.4	-28.105	-13.310
5.5	-26.614	-13.509
5.6	-25.993	-13.705
5.7	-26.142	-13.897
5.8	-27.040	-14.086
5.9	-28.831	-14.271
6	-31.925	-14.454
6.1	-37.185	-14.633
6.2	-40.225	-14.810
6.3	-35.176	-14.984
6.4	-32.114	-15.154
6.5	-31.105	-15.323
6.6	-31.771	-15.489
6.7	-34.218	-15.652
6.8	-40.014	-15.813
6.9	-53.810	-15.971
7	-37.025	-16.127

3.3. Azimuth Pattern for Cross-pol, Narrow angle (-7°~7°)
(Maximum skew angle 45 degrees)



-15.69 dBW/4kHz Input power spectral density @ f=13.75GHz

▪ **FCC EIRP spectral density regulation**

$5-25\log(\theta)$	dBW/4kHz	for	$1.5^\circ \leq \theta \leq 7.0^\circ$
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The v240MT Gen-II's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -15.69 dBW/ 4kHz

4.3. Azimuth Pattern for Cross-pol (-7°~7°) (Maximum skew angle 45 degrees)

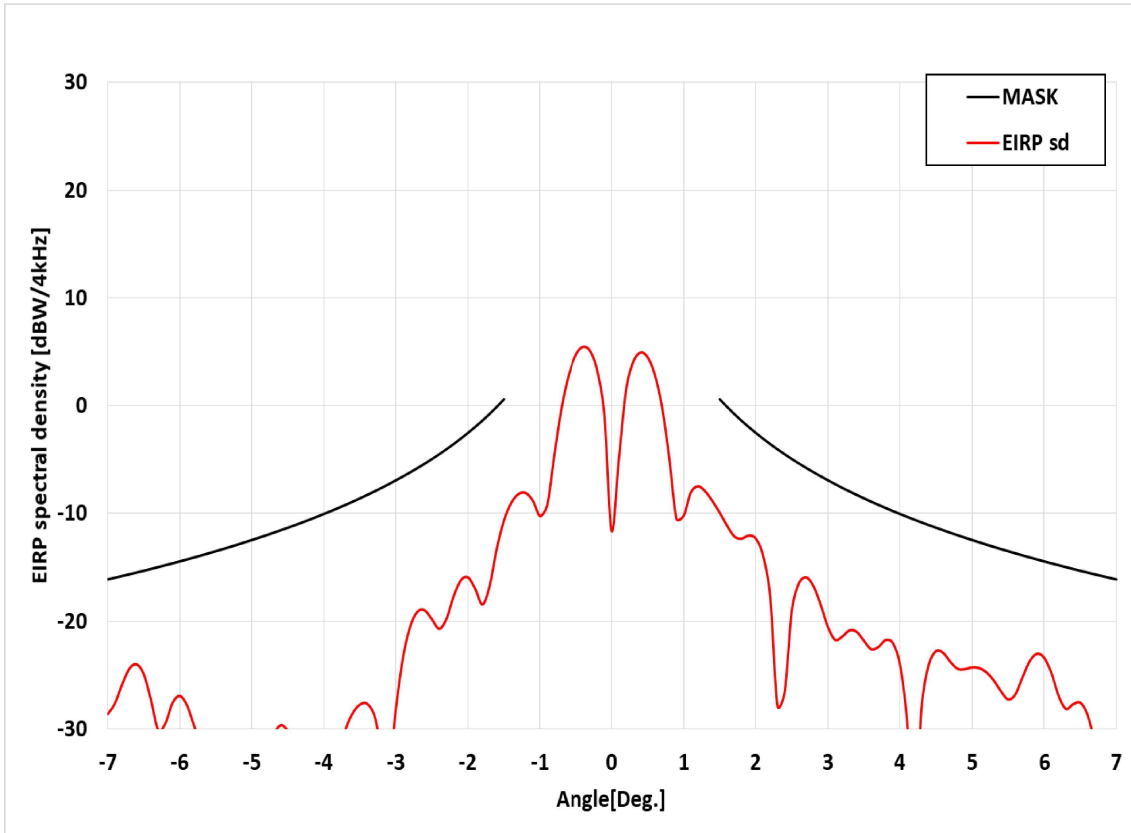
F=13.75GHz, -15.69 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
-7	-23.528	-16.127
-6.9	-25.016	-15.971
-6.8	-27.402	-15.813
-6.7	-31.240	-15.652
-6.6	-37.661	-15.489
-6.5	-32.510	-15.323
-6.4	-26.655	-15.154
-6.3	-23.502	-14.984
-6.2	-21.954	-14.810
-6.1	-21.655	-14.633
-6	-22.880	-14.454
-5.9	-24.796	-14.271
-5.8	-25.555	-14.086
-5.7	-24.726	-13.897
-5.6	-24.602	-13.705
-5.5	-26.085	-13.509
-5.4	-29.914	-13.310
-5.3	-36.659	-13.107
-5.2	-34.364	-12.900
-5.1	-29.919	-12.689
-5	-28.042	-12.474
-4.9	-27.857	-12.255
-4.8	-28.540	-12.031
-4.7	-29.495	-11.802
-4.6	-29.659	-11.569
-4.5	-30.013	-11.330
-4.4	-31.552	-11.086
-4.3	-35.966	-10.837
-4.2	-39.385	-10.581
-4.1	-28.404	-10.320
-4	-22.610	-10.051
-3.9	-19.018	-9.777
-3.8	-16.931	-9.495
-3.7	-15.761	-9.205
-3.6	-15.196	-8.908
-3.5	-15.093	-8.602
-3.4	-15.291	-8.287
-3.3	-15.753	-7.963
-3.2	-16.729	-7.629
-3.1	-18.628	-7.284
-3	-21.551	-6.928

-2.9	-23.430	-6.560
-2.8	-21.607	-6.179
-2.7	-19.178	-5.784
-2.6	-17.724	-5.374
-2.5	-17.702	-4.949
-2.4	-18.773	-4.505
-2.3	-20.693	-4.043
-2.2	-23.683	-3.561
-2.1	-30.305	-3.055
-2	-31.035	-2.526
-1.9	-23.185	-1.969
-1.8	-18.478	-1.382
-1.7	-15.568	-0.761
-1.6	-14.124	-0.103
-1.5	-14.163	0.598
-1.4	-16.203	
-1.3	-21.338	
-1.2	-20.734	
-1.1	-9.619	
-1	-4.810	
-0.9	-2.519	
-0.8	-1.810	
-0.7	-2.787	
-0.6	-5.246	
-0.5	-8.112	
-0.4	-6.174	
-0.3	-2.777	
-0.2	-0.940	
-0.1	-0.765	
-7.09655E-13	-2.615	
0.1	-7.865	
0.2	-12.208	
0.3	-3.509	
0.4	0.518	
0.5	2.604	
0.6	3.355	
0.7	2.633	
0.8	1.278	
0.9	0.069	
1	-0.437	
1.1	-0.477	

1.2	-0.697	
1.3	-1.879	
1.4	-5.528	
1.5	-11.148	0.598
1.6	-17.952	-0.103
1.7	-13.725	-0.761
1.8	-11.835	-1.382
1.9	-11.661	-1.969
2	-13.163	-2.526
2.1	-17.006	-3.055
2.2	-22.634	-3.561
2.3	-20.069	-4.043
2.4	-15.775	-4.505
2.5	-13.596	-4.949
2.6	-12.740	-5.374
2.7	-12.823	-5.784
2.8	-13.720	-6.179
2.9	-15.318	-6.560
3	-17.773	-6.928
3.1	-21.718	-7.284
3.2	-29.375	-7.629
3.3	-37.838	-7.963
3.4	-26.079	-8.287
3.5	-22.259	-8.602
3.6	-20.554	-8.908
3.7	-20.007	-9.205
3.8	-20.535	-9.495
3.9	-22.151	-9.777
4	-25.013	-10.051
4.1	-29.402	-10.320
4.2	-31.404	-10.581
4.3	-26.062	-10.837
4.4	-22.338	-11.086
4.5	-20.341	-11.330
4.6	-19.266	-11.569
4.7	-18.805	-11.802
4.8	-18.845	-12.031
4.9	-19.203	-12.255
5	-19.959	-12.474
5.1	-21.293	-12.689
5.2	-23.745	-12.900

5.3	-26.957	-13.107
5.4	-28.101	-13.310
5.5	-25.980	-13.509
5.6	-24.017	-13.705
5.7	-23.063	-13.897
5.8	-23.146	-14.086
5.9	-24.316	-14.271
6	-26.291	-14.454
6.1	-29.060	-14.633
6.2	-32.297	-14.810
6.3	-31.947	-14.984
6.4	-28.112	-15.154
6.5	-24.661	-15.323
6.6	-22.372	-15.489
6.7	-20.922	-15.652
6.8	-20.261	-15.813
6.9	-20.533	-15.971
7	-22.008	-16.127

9.3. Azimuth Pattern for Cross-pol, Narrow angle (-7°~7°)



-15.69 dBW/4kHz Input power spectral density @ f=14.5GHz

▪ **FCC EIRP spectral density regulation**

$$5-25\log(\theta) \quad \text{dBW/4kHz} \quad \text{for} \quad 1.5^\circ \leq \theta \leq 7.0^\circ$$

The v240MT Gen-II's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -15.69 dBW/ 4kHz

10.3. Azimuth Pattern for Cross-pol (-7°~7°)

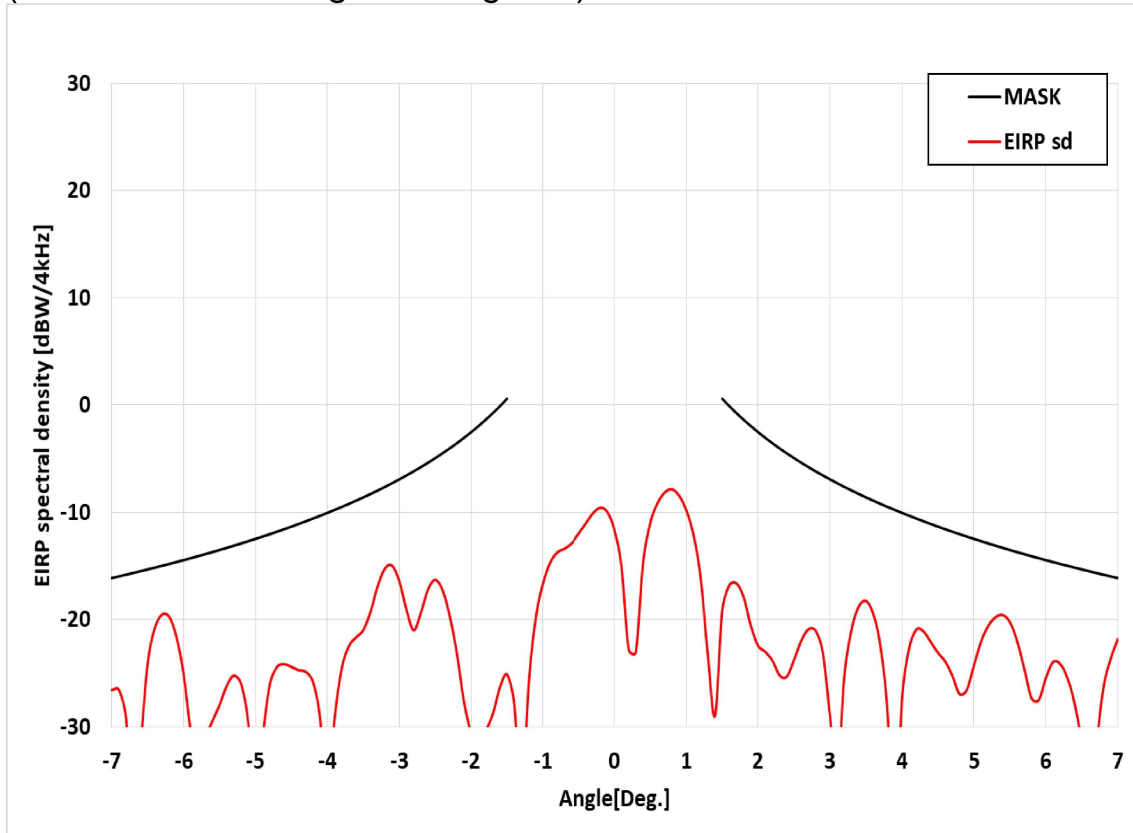
F=14.5GHz, -15.69 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
-7	-28.639	-16.127
-6.9	-27.649	-15.971
-6.8	-25.892	-15.813
-6.7	-24.430	-15.652
-6.6	-24.007	-15.489
-6.5	-24.901	-15.323
-6.4	-27.287	-15.154
-6.3	-30.076	-14.984
-6.2	-29.516	-14.810
-6.1	-27.597	-14.633
-6	-26.940	-14.454
-5.9	-27.797	-14.271
-5.8	-29.715	-14.086
-5.7	-31.532	-13.897
-5.6	-32.697	-13.705
-5.5	-33.911	-13.509
-5.4	-34.656	-13.310
-5.3	-33.160	-13.107
-5.2	-31.834	-12.900
-5.1	-32.631	-12.689
-5	-37.043	-12.474
-4.9	-44.418	-12.255
-4.8	-34.501	-12.031
-4.7	-30.695	-11.802
-4.6	-29.665	-11.569
-4.5	-30.163	-11.330
-4.4	-31.238	-11.086
-4.3	-32.090	-10.837
-4.2	-33.292	-10.581
-4.1	-36.097	-10.320
-4	-40.588	-10.051
-3.9	-37.423	-9.777
-3.8	-32.727	-9.495
-3.7	-30.060	-9.205
-3.6	-28.536	-8.908
-3.5	-27.744	-8.602
-3.4	-27.665	-8.287
-3.3	-28.742	-7.963
-3.2	-31.874	-7.629
-3.1	-34.127	-7.284
-3	-28.064	-6.928

-2.9	-23.283	-6.560
-2.8	-20.445	-6.179
-2.7	-19.114	-5.784
-2.6	-19.006	-5.374
-2.5	-19.841	-4.949
-2.4	-20.705	-4.505
-2.3	-19.792	-4.043
-2.2	-17.691	-3.561
-2.1	-16.204	-3.055
-2	-15.940	-2.526
-1.9	-17.013	-1.969
-1.8	-18.456	-1.382
-1.7	-16.713	-0.761
-1.6	-13.239	-0.103
-1.5	-10.624	0.598
-1.4	-9.016	
-1.3	-8.202	
-1.2	-8.103	
-1.1	-8.835	
-1	-10.239	
-0.9	-9.200	
-0.8	-4.456	
-0.7	-0.155	
-0.6	2.839	
-0.5	4.676	
-0.4	5.452	
-0.3	5.098	
-0.2	3.298	
-0.1	-0.835	
-7.09655E-13	-11.599	
0.1	-5.097	
0.2	1.373	
0.3	4.055	
0.4	4.922	
0.5	4.500	
0.6	2.877	
0.7	-0.124	
0.8	-4.848	
0.9	-10.481	
1	-10.225	
1.1	-8.050	

1.2	-7.483	
1.3	-7.966	
1.4	-8.861	
1.5	-9.929	0.598
1.6	-11.114	-0.103
1.7	-12.117	-0.761
1.8	-12.346	-1.382
1.9	-12.070	-1.969
2	-12.330	-2.526
2.1	-13.887	-3.055
2.2	-17.710	-3.561
2.3	-27.826	-4.043
2.4	-26.598	-4.505
2.5	-18.978	-4.949
2.6	-16.441	-5.374
2.7	-15.938	-5.784
2.8	-16.762	-6.179
2.9	-18.487	-6.560
3	-20.546	-6.928
3.1	-21.730	-7.284
3.2	-21.422	-7.629
3.3	-20.853	-7.963
3.4	-20.995	-8.287
3.5	-21.830	-8.602
3.6	-22.604	-8.908
3.7	-22.393	-9.205
3.8	-21.759	-9.495
3.9	-22.029	-9.777
4	-24.068	-10.051
4.1	-29.431	-10.320
4.2	-39.078	-10.581
4.3	-27.920	-10.837
4.4	-23.991	-11.086
4.5	-22.774	-11.330
4.6	-22.960	-11.569
4.7	-23.795	-11.802
4.8	-24.427	-12.031
4.9	-24.454	-12.255
5	-24.297	-12.474
5.1	-24.357	-12.689
5.2	-24.761	-12.900

5.3	-25.502	-13.107
5.4	-26.506	-13.310
5.5	-27.268	-13.509
5.6	-26.780	-13.705
5.7	-25.187	-13.897
5.8	-23.694	-14.086
5.9	-23.034	-14.271
6	-23.414	-14.454
6.1	-24.841	-14.633
6.2	-26.943	-14.810
6.3	-28.130	-14.984
6.4	-27.712	-15.154
6.5	-27.571	-15.323
6.6	-28.699	-15.489
6.7	-31.526	-15.652
6.8	-36.533	-15.813
6.9	-42.912	-15.971
7	-45.567	-16.127

11.3. Azimuth Pattern for Cross-pol, Narrow angle (-7°~7°)
(Maximum skew angle 45 degrees)



-15.69 dBW/4kHz Input power spectral density @ f=14.5GHz

▪ **FCC EIRP spectral density regulation**

$$5-25\log(\theta) \quad \text{dBW/4kHz} \quad \text{for} \quad 1.5^\circ \leq \theta \leq 7.0^\circ$$

The v240MT Gen-II's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -15.69 dBW/ 4kHz

12.3. Azimuth Pattern for Cross-pol (-7°~7°) (Maximum skew angle 45 degrees)

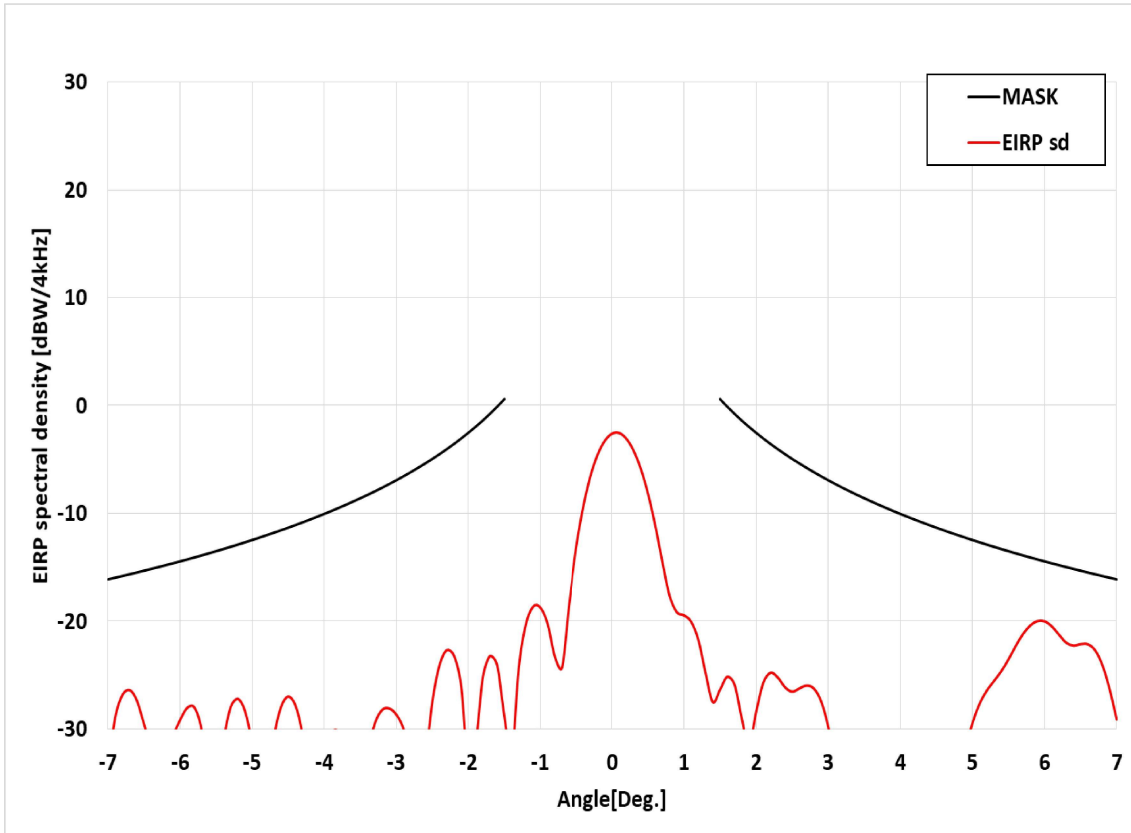
F=14.5GHz, -15.69 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
-7	-26.579	-16.127
-6.9	-26.550	-15.971
-6.8	-29.188	-15.813
-6.7	-40.094	-15.652
-6.6	-32.003	-15.489
-6.5	-24.118	-15.323
-6.4	-20.792	-15.154
-6.3	-19.534	-14.984
-6.2	-19.732	-14.810
-6.1	-21.588	-14.633
-6	-25.045	-14.454
-5.9	-30.426	-14.271
-5.8	-33.308	-14.086
-5.7	-31.054	-13.897
-5.6	-29.477	-13.705
-5.5	-27.971	-13.509
-5.4	-26.189	-13.310
-5.3	-25.221	-13.107
-5.2	-25.987	-12.900
-5.1	-29.664	-12.689
-5	-38.446	-12.474
-4.9	-31.064	-12.255
-4.8	-26.062	-12.031
-4.7	-24.418	-11.802
-4.6	-24.157	-11.569
-4.5	-24.406	-11.330
-4.4	-24.714	-11.086
-4.3	-24.878	-10.837
-4.2	-25.806	-10.581
-4.1	-29.250	-10.320
-4	-37.372	-10.051
-3.9	-29.284	-9.777
-3.8	-24.573	-9.495
-3.7	-22.478	-9.205
-3.6	-21.660	-8.908
-3.5	-20.975	-8.602
-3.4	-19.291	-8.287
-3.3	-16.883	-7.963
-3.2	-15.249	-7.629
-3.1	-14.978	-7.284
-3	-16.401	-6.928

-2.9	-19.069	-6.560
-2.8	-21.002	-6.179
-2.7	-19.385	-5.784
-2.6	-17.198	-5.374
-2.5	-16.299	-4.949
-2.4	-17.211	-4.505
-2.3	-19.601	-4.043
-2.2	-23.073	-3.561
-2.1	-27.621	-3.055
-2	-30.411	-2.526
-1.9	-30.377	-1.969
-1.8	-30.284	-1.382
-1.7	-28.824	-0.761
-1.6	-26.329	-0.103
-1.5	-25.128	0.598
-1.4	-27.866	
-1.3	-37.577	
-1.2	-26.092	
-1.1	-19.844	
-1	-16.631	
-0.9	-14.683	
-0.8	-13.727	
-0.7	-13.388	
-0.6	-12.879	
-0.5	-12.010	
-0.4	-11.071	
-0.3	-10.120	
-0.2	-9.584	
-0.1	-9.935	
-7.09655E-13	-11.599	
0.1	-15.078	
0.2	-22.775	
0.3	-23.032	
0.4	-14.745	
0.5	-11.019	
0.6	-9.164	
0.7	-8.159	
0.8	-7.844	
0.9	-8.428	
1	-9.789	
1.1	-12.084	

1.2	-16.042	
1.3	-23.244	
1.4	-28.969	
1.5	-19.196	0.598
1.6	-16.793	-0.103
1.7	-16.635	-0.761
1.8	-17.950	-1.382
1.9	-20.617	-1.969
2	-22.436	-2.526
2.1	-23.005	-3.055
2.2	-23.833	-3.561
2.3	-25.217	-4.043
2.4	-25.307	-4.505
2.5	-23.739	-4.949
2.6	-21.964	-5.374
2.7	-20.897	-5.784
2.8	-21.048	-6.179
2.9	-23.113	-6.560
3	-29.094	-6.928
3.1	-34.641	-7.284
3.2	-25.192	-7.629
3.3	-20.900	-7.963
3.4	-18.758	-8.287
3.5	-18.257	-8.602
3.6	-19.472	-8.908
3.7	-22.500	-9.205
3.8	-28.796	-9.495
3.9	-43.063	-9.777
4	-27.425	-10.051
4.1	-22.651	-10.320
4.2	-20.934	-10.581
4.3	-21.109	-10.837
4.4	-22.097	-11.086
4.5	-23.094	-11.330
4.6	-23.898	-11.569
4.7	-25.248	-11.802
4.8	-26.940	-12.031
4.9	-26.568	-12.255
5	-24.267	-12.474
5.1	-22.029	-12.689
5.2	-20.577	-12.900

5.3	-19.780	-13.107
5.4	-19.572	-13.310
5.5	-20.239	-13.509
5.6	-21.991	-13.705
5.7	-24.591	-13.897
5.8	-27.313	-14.086
5.9	-27.524	-14.271
6	-25.452	-14.454
6.1	-23.958	-14.633
6.2	-24.140	-14.810
6.3	-25.471	-14.984
6.4	-27.861	-15.154
6.5	-31.771	-15.323
6.6	-38.839	-15.489
6.7	-31.938	-15.652
6.8	-26.373	-15.813
6.9	-23.678	-15.971
7	-21.824	-16.127

1.5. Elevation Pattern for Cross-pol, Narrow angle (-7°~7°)



-15.69 dBW/4kHz Input power spectral density @ f=13.75GHz

▪ **FCC EIRP spectral density regulation**

$5-25\log(\theta)$	dBW/4kHz	for	$1.5^\circ \leq \theta \leq 7.0^\circ$
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The v240MT Gen-II's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -15.69 dBW/ 4kHz

2.5. Elevation Pattern for Cross-pol (-7°~7°)

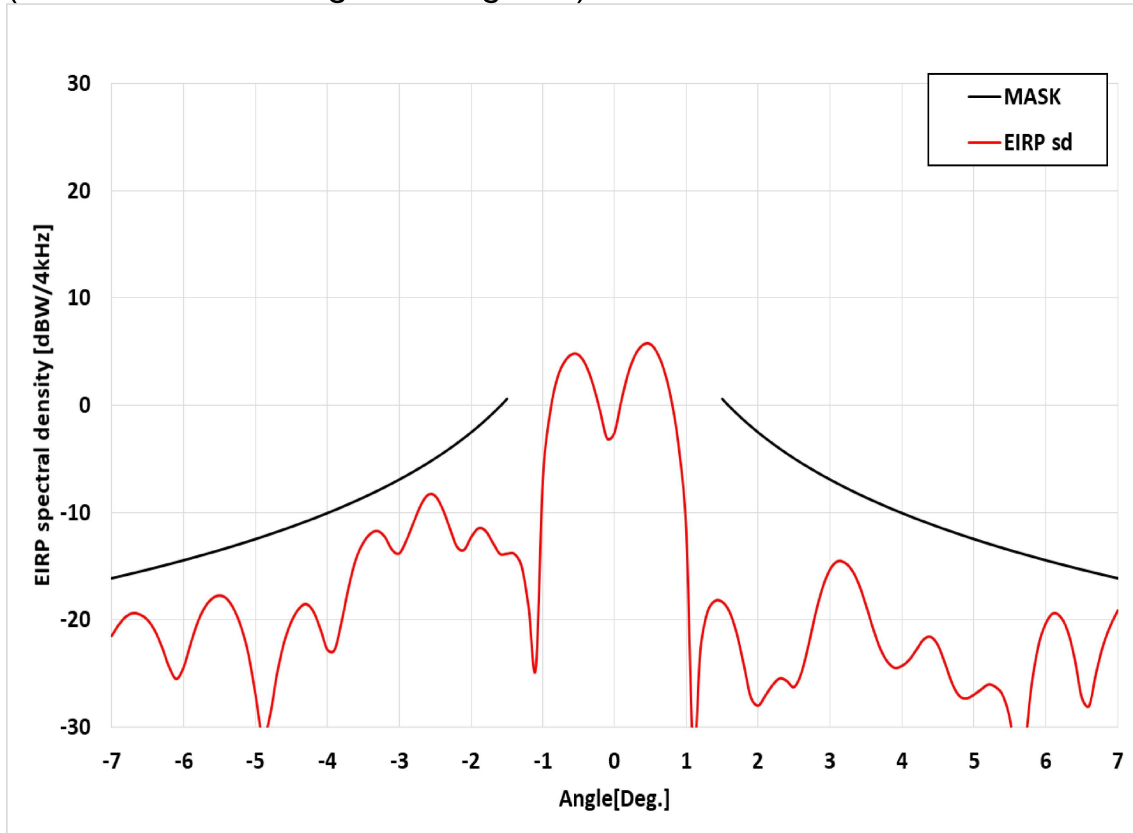
F=13.75GHz, -15.69 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
-7	-33.775	-16.127
-6.9	-28.960	-15.971
-6.8	-26.855	-15.813
-6.7	-26.385	-15.652
-6.6	-27.351	-15.489
-6.5	-29.534	-15.323
-6.4	-31.731	-15.154
-6.3	-32.424	-14.984
-6.2	-31.785	-14.810
-6.1	-30.618	-14.633
-6	-29.167	-14.454
-5.9	-28.033	-14.271
-5.8	-28.013	-14.086
-5.7	-30.156	-13.897
-5.6	-36.784	-13.705
-5.5	-43.583	-13.509
-5.4	-31.678	-13.310
-5.3	-28.017	-13.107
-5.2	-27.200	-12.900
-5.1	-28.310	-12.689
-5	-31.768	-12.474
-4.9	-41.000	-12.255
-4.8	-38.539	-12.031
-4.7	-31.074	-11.802
-4.6	-27.984	-11.569
-4.5	-26.986	-11.330
-4.4	-27.794	-11.086
-4.3	-30.725	-10.837
-4.2	-38.196	-10.581
-4.1	-43.067	-10.320
-4	-33.142	-10.051
-3.9	-30.371	-9.777
-3.8	-30.270	-9.495
-3.7	-32.559	-9.205
-3.6	-37.753	-8.908
-3.5	-37.584	-8.602
-3.4	-32.428	-8.287
-3.3	-29.536	-7.963
-3.2	-28.260	-7.629
-3.1	-28.098	-7.284
-3	-28.667	-6.928

-2.9	-29.997	-6.560
-2.8	-32.809	-6.179
-2.7	-37.056	-5.784
-2.6	-33.146	-5.374
-2.5	-27.476	-4.949
-2.4	-24.069	-4.505
-2.3	-22.696	-4.043
-2.2	-23.192	-3.561
-2.1	-26.012	-3.055
-2	-33.809	-2.526
-1.9	-31.473	-1.969
-1.8	-25.220	-1.382
-1.7	-23.232	-0.761
-1.6	-24.089	-0.103
-1.5	-28.857	0.598
-1.4	-32.512	
-1.3	-24.294	
-1.2	-20.242	
-1.1	-18.647	
-1	-18.750	
-0.9	-20.260	
-0.8	-23.290	
-0.7	-24.286	
-0.6	-18.456	
-0.5	-13.308	
-0.4	-9.482	
-0.3	-6.614	
-0.2	-4.589	
-0.1	-3.290	
0	-2.619	
0.1	-2.546	
0.2	-3.072	
0.3	-4.169	
0.4	-5.845	
0.5	-8.144	
0.6	-11.086	
0.7	-14.494	
0.8	-17.630	
0.9	-19.156	
1	-19.460	
1.1	-20.054	

1.2	-21.758	
1.3	-24.827	
1.4	-27.511	
1.5	-26.356	0.598
1.6	-25.160	-0.103
1.7	-25.866	-0.761
1.8	-28.958	-1.382
1.9	-31.621	-1.969
2	-28.436	-2.526
2.1	-25.712	-3.055
2.2	-24.789	-3.561
2.3	-25.220	-4.043
2.4	-26.123	-4.505
2.5	-26.536	-4.949
2.6	-26.237	-5.374
2.7	-25.966	-5.784
2.8	-26.248	-6.179
2.9	-27.416	-6.560
3	-29.829	-6.928
3.1	-33.637	-7.284
3.2	-37.241	-7.629
3.3	-38.018	-7.963
3.4	-38.332	-8.287
3.5	-40.524	-8.602
3.6	-42.204	-8.908
3.7	-39.852	-9.205
3.8	-37.482	-9.495
3.9	-36.048	-9.777
4	-34.511	-10.051
4.1	-32.752	-10.320
4.2	-31.507	-10.581
4.3	-31.276	-10.837
4.4	-32.463	-11.086
4.5	-35.442	-11.330
4.6	-41.228	-11.569
4.7	-42.686	-11.802
4.8	-36.088	-12.031
4.9	-32.089	-12.255
5	-29.457	-12.474
5.1	-27.638	-12.689
5.2	-26.424	-12.900

5.3	-25.539	-13.107
5.4	-24.635	-13.310
5.5	-23.534	-13.509
5.6	-22.304	-13.705
5.7	-21.202	-13.897
5.8	-20.404	-14.086
5.9	-19.986	-14.271
6	-20.005	-14.454
6.1	-20.478	-14.633
6.2	-21.259	-14.810
6.3	-21.998	-14.984
6.4	-22.260	-15.154
6.5	-22.135	-15.323
6.6	-22.148	-15.489
6.7	-22.696	-15.652
6.8	-24.050	-15.813
6.9	-26.272	-15.971
7	-29.109	-16.127

3.5. Elevation Pattern for Cross-pol, Narrow angle (-7°~7°)
(Maximum skew angle 45 degrees)



-15.69 dBW/4kHz Input power spectral density @ f=13.75GHz

- **FCC EIRP spectral density regulation**

$5-25\log(\theta) \quad \text{dBW/4kHz} \quad \text{for} \quad 1.5^\circ \leq \theta \leq 7.0^\circ$
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The v240MT Gen-II's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -15.69 dBW/ 4kHz

4.5. Elevation Pattern for Cross-pol (-7°~7°) (Maximum skew angle 45 degrees)

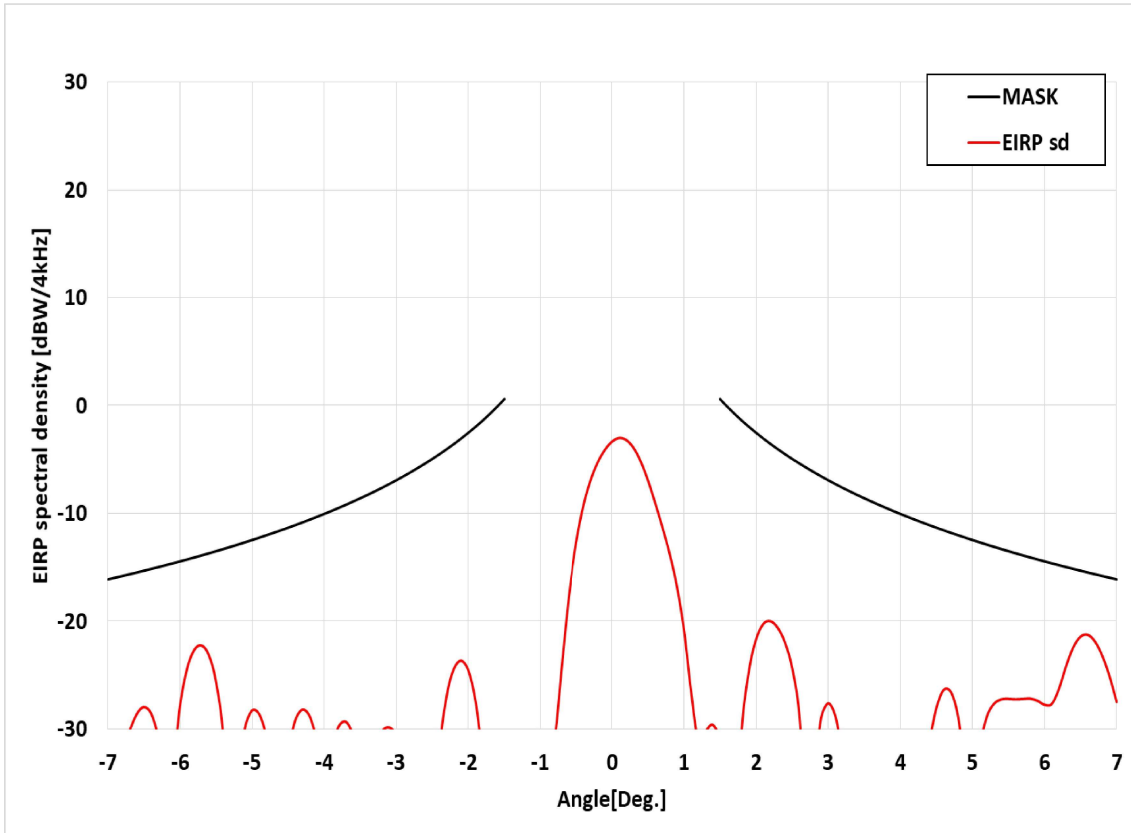
F=13.75GHz, -15.69 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
-7	-21.497	-16.127
-6.9	-20.458	-15.971
-6.8	-19.703	-15.813
-6.7	-19.375	-15.652
-6.6	-19.535	-15.489
-6.5	-20.025	-15.323
-6.4	-21.003	-15.154
-6.3	-22.547	-14.984
-6.2	-24.422	-14.810
-6.1	-25.509	-14.633
-6	-24.453	-14.454
-5.9	-22.208	-14.271
-5.8	-20.174	-14.086
-5.7	-18.795	-13.897
-5.6	-18.011	-13.705
-5.5	-17.738	-13.509
-5.4	-18.032	-13.310
-5.3	-19.014	-13.107
-5.2	-20.665	-12.900
-5.1	-23.141	-12.689
-5	-26.962	-12.474
-4.9	-30.935	-12.255
-4.8	-29.051	-12.031
-4.7	-25.061	-11.802
-4.6	-22.083	-11.569
-4.5	-20.169	-11.330
-4.4	-19.009	-11.086
-4.3	-18.535	-10.837
-4.2	-19.157	-10.581
-4.1	-20.790	-10.320
-4	-22.783	-10.051
-3.9	-22.816	-9.777
-3.8	-20.135	-9.495
-3.7	-16.868	-9.205
-3.6	-14.304	-8.908
-3.5	-12.824	-8.602
-3.4	-11.981	-8.287
-3.3	-11.726	-7.963
-3.2	-12.273	-7.629
-3.1	-13.467	-7.284
-3	-13.811	-6.928

-2.9	-12.586	-6.560
-2.8	-10.922	-6.179
-2.7	-9.309	-5.784
-2.6	-8.355	-5.374
-2.5	-8.442	-4.949
-2.4	-9.602	-4.505
-2.3	-11.395	-4.043
-2.2	-13.156	-3.561
-2.1	-13.495	-3.055
-2	-12.307	-2.526
-1.9	-11.475	-1.969
-1.8	-11.702	-1.382
-1.7	-12.788	-0.761
-1.6	-13.853	-0.103
-1.5	-13.844	0.598
-1.4	-13.858	
-1.3	-14.953	
-1.2	-18.860	
-1.1	-24.513	
-1	-6.647	
-0.9	-0.622	
-0.8	2.555	
-0.7	4.069	
-0.6	4.745	
-0.5	4.714	
-0.4	3.823	
-0.3	2.041	
-0.2	-0.446	
-0.1	-3.085	
0	-2.616	
0.1	0.464	
0.2	3.115	
0.3	4.808	
0.4	5.642	
0.5	5.710	
0.6	4.852	
0.7	3.097	
0.8	0.289	
0.9	-4.084	
1	-11.539	
1.1	-32.431	

1.2	-22.675	
1.3	-19.185	
1.4	-18.244	
1.5	-18.327	0.598
1.6	-19.227	-0.103
1.7	-21.219	-0.761
1.8	-24.175	-1.382
1.9	-27.273	-1.969
2	-28.015	-2.526
2.1	-27.075	-3.055
2.2	-26.103	-3.561
2.3	-25.466	-4.043
2.4	-25.719	-4.505
2.5	-26.272	-4.949
2.6	-24.981	-5.374
2.7	-22.361	-5.784
2.8	-19.362	-6.179
2.9	-16.920	-6.560
3	-15.293	-6.928
3.1	-14.558	-7.284
3.2	-14.658	-7.629
3.3	-15.333	-7.963
3.4	-16.679	-8.287
3.5	-18.656	-8.602
3.6	-20.853	-8.908
3.7	-22.730	-9.205
3.8	-23.929	-9.495
3.9	-24.484	-9.777
4	-24.299	-10.051
4.1	-23.738	-10.320
4.2	-22.798	-10.581
4.3	-21.838	-10.837
4.4	-21.598	-11.086
4.5	-22.376	-11.330
4.6	-24.103	-11.569
4.7	-25.984	-11.802
4.8	-27.121	-12.031
4.9	-27.328	-12.255
5	-26.985	-12.474
5.1	-26.497	-12.689
5.2	-26.040	-12.900

5.3	-26.270	-13.107
5.4	-27.045	-13.310
5.5	-29.255	-13.509
5.6	-33.575	-13.705
5.7	-32.145	-13.897
5.8	-26.178	-14.086
5.9	-22.329	-14.271
6	-20.322	-14.454
6.1	-19.406	-14.633
6.2	-19.702	-14.810
6.3	-20.994	-14.984
6.4	-23.625	-15.154
6.5	-27.280	-15.323
6.6	-28.043	-15.489
6.7	-24.907	-15.652
6.8	-22.315	-15.813
6.9	-20.518	-15.971
7	-19.126	-16.127

9.5. Elevation Pattern for Cross-pol, Narrow angle (-7°~7°)



-15.69 dBW/4kHz Input power spectral density @ f=14.5GHz

▪ **FCC EIRP spectral density regulation**

$5-25\log(\theta) \quad \text{dBW/4kHz} \quad \text{for} \quad 1.5^\circ \leq \theta \leq 7.0^\circ$
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The v240MT Gen-II's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -15.69 dBW/ 4kHz

10.5. Elevation Pattern for Cross-pol (-7°~7°)

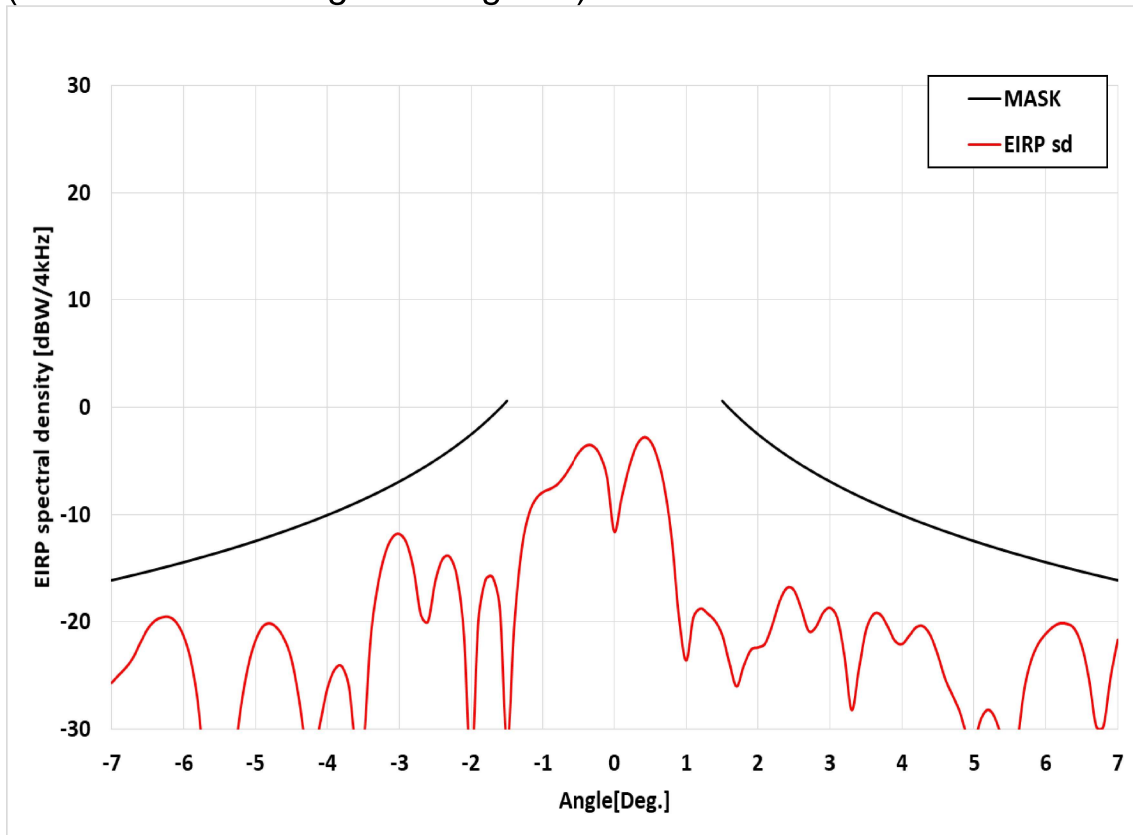
F=14.5GHz, -15.69 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
-7	-33.025	-16.127
-6.9	-32.841	-15.971
-6.8	-31.925	-15.813
-6.7	-30.146	-15.652
-6.6	-28.610	-15.489
-6.5	-27.964	-15.323
-6.4	-28.579	-15.154
-6.3	-30.930	-14.984
-6.2	-35.424	-14.810
-6.1	-33.646	-14.633
-6	-27.808	-14.454
-5.9	-24.350	-14.271
-5.8	-22.641	-14.086
-5.7	-22.260	-13.897
-5.6	-23.159	-13.705
-5.5	-25.661	-13.509
-5.4	-30.853	-13.310
-5.3	-47.384	-13.107
-5.2	-35.442	-12.900
-5.1	-29.955	-12.689
-5	-28.280	-12.474
-4.9	-28.648	-12.255
-4.8	-30.795	-12.031
-4.7	-34.967	-11.802
-4.6	-36.897	-11.569
-4.5	-32.189	-11.330
-4.4	-29.176	-11.086
-4.3	-28.192	-10.837
-4.2	-28.842	-10.581
-4.1	-30.993	-10.320
-4	-33.123	-10.051
-3.9	-31.710	-9.777
-3.8	-29.764	-9.495
-3.7	-29.331	-9.205
-3.6	-30.581	-8.908
-3.5	-33.197	-8.602
-3.4	-34.020	-8.287
-3.3	-31.840	-7.963
-3.2	-30.222	-7.629
-3.1	-29.848	-7.284
-3	-30.476	-6.928

-2.9	-31.617	-6.560
-2.8	-32.669	-6.179
-2.7	-34.131	-5.784
-2.6	-38.206	-5.374
-2.5	-42.344	-4.949
-2.4	-32.006	-4.505
-2.3	-26.893	-4.043
-2.2	-24.398	-3.561
-2.1	-23.659	-3.055
-2	-24.573	-2.526
-1.9	-27.449	-1.969
-1.8	-32.588	-1.382
-1.7	-36.962	-0.761
-1.6	-35.368	-0.103
-1.5	-34.734	0.598
-1.4	-34.237	
-1.3	-32.978	
-1.2	-33.344	
-1.1	-36.555	
-1	-37.795	
-0.9	-33.734	
-0.8	-30.812	
-0.7	-23.991	
-0.6	-17.525	
-0.5	-12.814	
-0.4	-9.419	
-0.3	-7.020	
-0.2	-5.325	
-0.1	-4.132	
0	-3.355	
0.1	-3.017	
0.2	-3.199	
0.3	-3.926	
0.4	-5.188	
0.5	-6.930	
0.6	-9.022	
0.7	-11.275	
0.8	-13.723	
0.9	-16.718	
1	-20.828	
1.1	-26.583	

1.2	-31.147	
1.3	-30.195	
1.4	-29.622	
1.5	-30.998	0.598
1.6	-35.724	-0.103
1.7	-43.441	-0.761
1.8	-30.179	-1.382
1.9	-24.644	-1.969
2	-21.684	-2.526
2.1	-20.257	-3.055
2.2	-20.001	-3.561
2.3	-20.623	-4.043
2.4	-21.995	-4.505
2.5	-24.356	-4.949
2.6	-28.727	-5.374
2.7	-39.088	-5.784
2.8	-34.525	-6.179
2.9	-28.985	-6.560
3	-27.611	-6.928
3.1	-28.849	-7.284
3.2	-32.836	-7.629
3.3	-40.599	-7.963
3.4	-55.111	-8.287
3.5	-50.828	-8.602
3.6	-48.812	-8.908
3.7	-41.478	-9.205
3.8	-37.136	-9.495
3.9	-34.000	-9.777
4	-31.703	-10.051
4.1	-30.630	-10.320
4.2	-31.199	-10.581
4.3	-32.547	-10.837
4.4	-31.014	-11.086
4.5	-28.035	-11.330
4.6	-26.373	-11.569
4.7	-26.556	-11.802
4.8	-28.837	-12.031
4.9	-33.768	-12.255
5	-36.859	-12.474
5.1	-31.745	-12.689
5.2	-28.837	-12.900

5.3	-27.653	-13.107
5.4	-27.259	-13.310
5.5	-27.210	-13.509
5.6	-27.252	-13.705
5.7	-27.215	-13.897
5.8	-27.187	-14.086
5.9	-27.376	-14.271
6	-27.752	-14.454
6.1	-27.670	-14.633
6.2	-26.256	-14.810
6.3	-24.132	-14.984
6.4	-22.399	-15.154
6.5	-21.430	-15.323
6.6	-21.272	-15.489
6.7	-21.903	-15.652
6.8	-23.215	-15.813
6.9	-25.105	-15.971
7	-27.501	-16.127

11.5. Elevation Pattern for Cross-pol, Narrow angle (-7°~7°)
(Maximum skew angle 45 degrees)



-15.69 dBW/4kHz Input power spectral density @ f=14.5GHz

▪ **FCC EIRP spectral density regulation**

$$5-25\log(\theta) \quad \text{dBW/4kHz} \quad \text{for} \quad 1.5^\circ \leq \theta \leq 7.0^\circ$$

The v240MT Gen-II's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -15.69 dBW/ 4kHz

12.5. Elevation Pattern for Cross-pol (-7°~7°) (Maximum skew angle 45 degrees)

F=14.5GHz, -15.69 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
-7	-25.695	-16.127
-6.9	-24.961	-15.971
-6.8	-24.268	-15.813
-6.7	-23.327	-15.652
-6.6	-21.947	-15.489
-6.5	-20.677	-15.323
-6.4	-19.917	-15.154
-6.3	-19.587	-14.984
-6.2	-19.563	-14.810
-6.1	-20.069	-14.633
-6	-21.319	-14.454
-5.9	-23.569	-14.271
-5.8	-27.571	-14.086
-5.7	-34.330	-13.897
-5.6	-38.640	-13.705
-5.5	-35.166	-13.509
-5.4	-34.931	-13.310
-5.3	-32.817	-13.107
-5.2	-27.820	-12.900
-5.1	-24.104	-12.689
-5	-21.757	-12.474
-4.9	-20.466	-12.255
-4.8	-20.152	-12.031
-4.7	-20.574	-11.802
-4.6	-21.613	-11.569
-4.5	-23.469	-11.330
-4.4	-26.945	-11.086
-4.3	-31.435	-10.837
-4.2	-32.800	-10.581
-4.1	-29.466	-10.320
-4	-26.231	-10.051
-3.9	-24.473	-9.777
-3.8	-24.149	-9.495
-3.7	-26.025	-9.205
-3.6	-31.864	-8.908
-3.5	-31.658	-8.602
-3.4	-21.746	-8.287
-3.3	-16.702	-7.963
-3.2	-13.724	-7.629
-3.1	-12.181	-7.284
-3	-11.811	-6.928

-2.9	-12.634	-6.560
-2.8	-15.110	-6.179
-2.7	-19.340	-5.784
-2.6	-19.994	-5.374
-2.5	-16.299	-4.949
-2.4	-14.186	-4.505
-2.3	-13.930	-4.043
-2.2	-15.694	-3.561
-2.1	-21.167	-3.055
-2	-33.888	-2.526
-1.9	-19.962	-1.969
-1.8	-16.105	-1.382
-1.7	-15.847	-0.761
-1.6	-18.770	-0.103
-1.5	-31.603	0.598
-1.4	-20.391	
-1.3	-13.412	
-1.2	-10.039	
-1.1	-8.559	
-1	-7.908	
-0.9	-7.606	
-0.8	-7.190	
-0.7	-6.400	
-0.6	-5.343	
-0.5	-4.288	
-0.4	-3.619	
-0.3	-3.598	
-0.2	-4.444	
-0.1	-6.542	
0	-11.599	
0.1	-8.530	
0.2	-5.762	
0.3	-3.719	
0.4	-2.827	
0.5	-3.141	
0.6	-4.717	
0.7	-7.591	
0.8	-12.277	
0.9	-19.581	
1	-23.608	
1.1	-19.584	

1.2	-18.763	
1.3	-19.252	
1.4	-19.921	
1.5	-21.210	0.598
1.6	-23.820	-0.103
1.7	-26.029	-0.761
1.8	-24.102	-1.382
1.9	-22.622	-1.969
2	-22.392	-2.526
2.1	-21.997	-3.055
2.2	-20.245	-3.561
2.3	-18.071	-4.043
2.4	-16.849	-4.505
2.5	-17.071	-4.949
2.6	-18.796	-5.374
2.7	-20.834	-5.784
2.8	-20.520	-6.179
2.9	-19.197	-6.560
3	-18.696	-6.928
3.1	-19.639	-7.284
3.2	-23.164	-7.629
3.3	-28.226	-7.963
3.4	-24.443	-8.287
3.5	-20.794	-8.602
3.6	-19.322	-8.908
3.7	-19.330	-9.205
3.8	-20.424	-9.495
3.9	-21.766	-9.777
4	-22.078	-10.051
4.1	-21.307	-10.320
4.2	-20.499	-10.581
4.3	-20.441	-10.837
4.4	-21.336	-11.086
4.5	-23.134	-11.330
4.6	-25.322	-11.569
4.7	-26.823	-11.802
4.8	-28.328	-12.031
4.9	-30.484	-12.255
5	-31.124	-12.474
5.1	-29.033	-12.689
5.2	-28.204	-12.900

5.3	-29.103	-13.107
5.4	-31.489	-13.310
5.5	-36.347	-13.509
5.6	-31.505	-13.705
5.7	-26.314	-13.897
5.8	-23.528	-14.086
5.9	-21.997	-14.271
6	-21.106	-14.454
6.1	-20.476	-14.633
6.2	-20.137	-14.810
6.3	-20.207	-14.984
6.4	-20.682	-15.154
6.5	-22.277	-15.323
6.6	-25.368	-15.489
6.7	-29.757	-15.652
6.8	-29.764	-15.813
6.9	-25.182	-15.971
7	-21.664	-16.127