

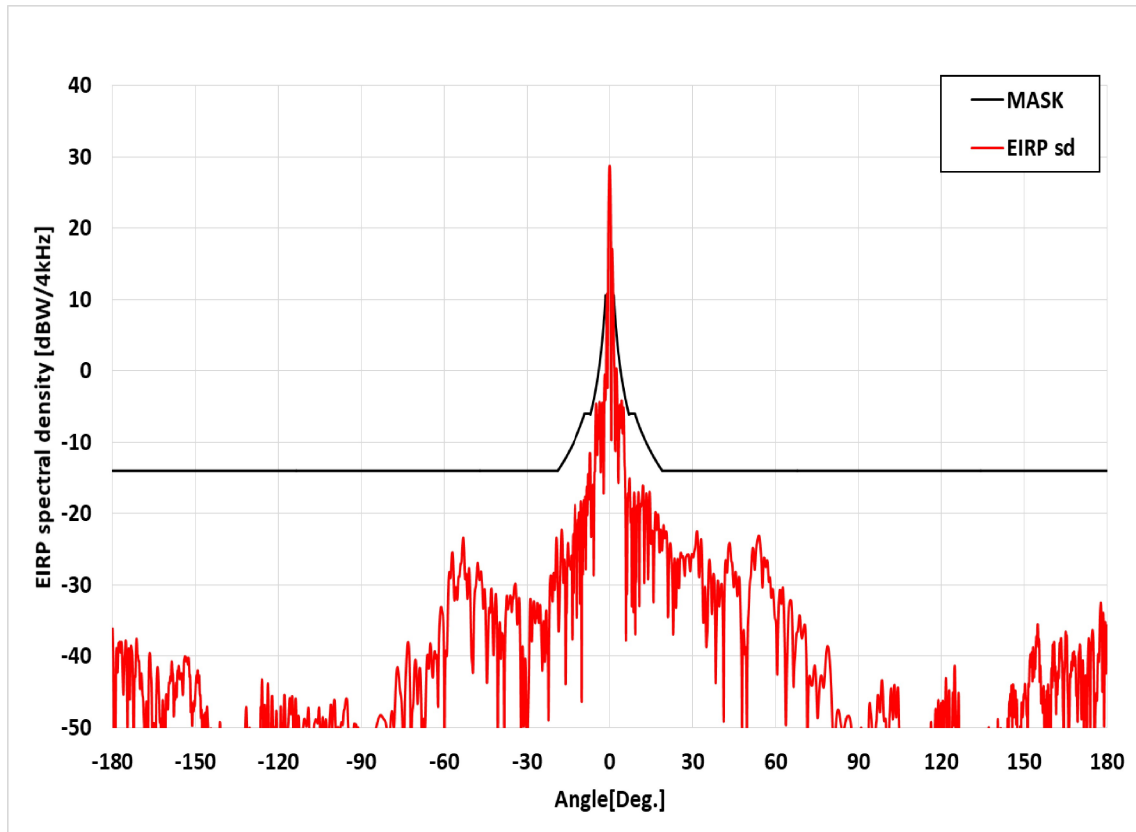
**Exhibit 5A.3 – Plots and Tables with §25.115(g)(1) Information for  
Ku-band Antennas**

**Exhibit Contains:**

Plots and Tables for Intellian V240MTKU antenna.

# 1. EIRP Spectral Density of v240MT Ku-band

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



-18.37 dBW/4kHz Input power spectral density @ f=13.75GHz

- **FCC EIRP spectral density regulation**

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

*The v240MT's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -18.37 dBW/ 4kHz*

## 2. EIRP Spectral Density Data

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

F=13.75GHz, -18.37 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
-180	-36.133	-14.000
-179	-51.484	-14.000
-178	-39.536	-14.000
-177	-39.093	-14.000
-176	-44.712	-14.000
-175	-39.677	-14.000
-174	-40.610	-14.000
-173	-39.260	-14.000
-172	-42.784	-14.000
-171	-39.973	-14.000
-170	-44.544	-14.000
-169	-45.860	-14.000
-168	-49.677	-14.000
-167	-45.647	-14.000
-166	-43.266	-14.000
-165	-50.065	-14.000
-164	-42.362	-14.000
-163	-48.326	-14.000
-162	-47.471	-14.000
-161	-55.786	-14.000
-160	-47.441	-14.000
-159	-43.183	-14.000
-158	-45.478	-14.000
-157	-44.021	-14.000
-156	-41.546	-14.000
-155	-42.943	-14.000
-154	-40.371	-14.000
-153	-40.465	-14.000
-152	-42.625	-14.000
-151	-46.916	-14.000
-150	-44.772	-14.000
-149	-43.669	-14.000
-148	-48.702	-14.000
-147	-49.524	-14.000
-146	-47.819	-14.000
-145	-52.423	-14.000
-144	-65.057	-14.000
-143	-64.544	-14.000
-142	-60.745	-14.000
-141	-52.264	-14.000
-140	-54.010	-14.000

-139	-57.451	-14.000
-138	-61.603	-14.000
-137	-51.069	-14.000
-136	-55.058	-14.000
-135	-56.317	-14.000
-134	-53.473	-14.000
-133	-67.680	-14.000
-132	-50.226	-14.000
-131	-55.103	-14.000
-130	-56.820	-14.000
-129	-54.438	-14.000
-128	-64.357	-14.000
-127	-63.193	-14.000
-126	-43.276	-14.000
-125	-46.805	-14.000
-124	-45.459	-14.000
-123	-81.286	-14.000
-122	-50.233	-14.000
-121	-51.103	-14.000
-120	-51.440	-14.000
-119	-48.912	-14.000
-118	-46.516	-14.000
-117	-50.601	-14.000
-116	-46.018	-14.000
-115	-45.778	-14.000
-114	-47.481	-14.000
-113	-49.271	-14.000
-112	-51.237	-14.000
-111	-49.583	-14.000
-110	-49.841	-14.000
-109	-48.218	-14.000
-108	-59.555	-14.000
-107	-49.425	-14.000
-106	-49.203	-14.000
-105	-50.224	-14.000
-104	-48.533	-14.000
-103	-49.045	-14.000
-102	-51.166	-14.000
-101	-46.893	-14.000
-100	-46.592	-14.000
-99	-50.673	-14.000

-98	-54.243	-14.000
-97	-49.392	-14.000
-96	-47.099	-14.000
-95	-47.567	-14.000
-94	-54.058	-14.000
-93	-50.744	-14.000
-92	-49.555	-14.000
-91	-50.496	-14.000
-90	-53.111	-14.000
-89	-69.445	-14.000
-88	-61.300	-14.000
-87	-54.704	-14.000
-86	-52.385	-14.000
-85	-50.492	-14.000
-84	-48.920	-14.000
-83	-48.270	-14.000
-82	-48.770	-14.000
-81	-49.812	-14.000
-80	-52.826	-14.000
-79	-47.708	-14.000
-78	-48.305	-14.000
-77	-41.535	-14.000
-76	-44.959	-14.000
-75	-53.653	-14.000
-74	-43.145	-14.000
-73	-38.206	-14.000
-72	-58.667	-14.000
-71	-43.588	-14.000
-70	-43.944	-14.000
-69	-41.718	-14.000
-68	-58.252	-14.000
-67	-50.071	-14.000
-66	-40.056	-14.000
-65	-38.303	-14.000
-64	-42.150	-14.000
-63	-40.076	-14.000
-62	-38.487	-14.000
-61	-33.356	-14.000
-60	-57.299	-14.000
-59	-38.437	-14.000
-58	-28.784	-14.000

-57	-25.656	-14.000
-56	-30.508	-14.000
-55	-29.357	-14.000
-54	-26.973	-14.000
-53	-24.018	-14.000
-52	-29.194	-14.000
-51	-27.836	-14.000
-50	-40.844	-14.000
-49	-30.849	-14.000
-48	-26.918	-14.000
-47	-28.446	-14.000
-46	-33.277	-14.000
-45	-35.956	-14.000
-44	-34.745	-14.000
-43	-30.514	-14.000
-42	-36.448	-14.000
-41	-37.049	-14.000
-40	-35.253	-14.000
-39	-36.998	-14.000
-38	-36.308	-14.000
-37	-33.367	-14.000
-36	-31.865	-14.000
-35	-31.667	-14.000
-34	-32.086	-14.000
-33	-31.818	-14.000
-32	-42.778	-14.000
-31	-42.465	-14.000
-30	-53.492	-14.000
-29	-32.463	-14.000
-28	-33.707	-14.000
-27	-34.812	-14.000
-26	-34.709	-14.000
-25	-36.916	-14.000
-24	-35.969	-14.000
-23	-35.820	-14.000
-22	-33.340	-14.000
-21	-31.842	-14.000
-20	-30.017	-14.000
-19	-30.886	-13.969
-18	-26.355	-13.382
-17	-29.667	-12.761

-16	-34.241	-12.103
-15	-26.706	-11.402
-14	-25.968	-10.653
-13	-26.135	-9.849
-12	-32.090	-8.980
-11	-20.361	-8.035
-10	-27.712	-7.000
-9	-19.957	-6.000
-8	-19.905	-6.000
-7	-12.939	-6.127
-6	-16.025	-4.454
-5	-5.402	-2.474
-4	-9.015	-0.051
-3	-8.368	3.072
-2	-5.158	7.474
-1	10.240	
-1.00044E-11	28.730	
1	16.743	
2	-10.962	7.474
3	-9.842	3.072
4	-7.952	-0.051
5	-5.141	-2.474
6	-25.636	-4.454
7	-16.546	-6.127
8	-32.969	-6.000
9	-18.335	-6.000
10	-18.934	-7.000
11	-19.720	-8.035
12	-16.066	-8.980
13	-19.192	-9.849
14	-27.826	-10.653
15	-23.953	-11.402
16	-28.136	-12.103
17	-22.279	-12.761
18	-24.856	-13.382
19	-25.143	-13.969
20	-23.335	-14.000
21	-30.532	-14.000
22	-24.245	-14.000
23	-36.935	-14.000
24	-33.169	-14.000

25	-29.954	-14.000
26	-25.860	-14.000
27	-28.134	-14.000
28	-25.826	-14.000
29	-27.652	-14.000
30	-25.915	-14.000
31	-24.627	-14.000
32	-24.474	-14.000
33	-23.737	-14.000
34	-35.295	-14.000
35	-38.688	-14.000
36	-26.633	-14.000
37	-34.050	-14.000
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59	-30.544	-14.000
60	-34.885	-14.000
61	-35.772	-14.000
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63	-32.226	-14.000
64	-45.225	-14.000
65	-32.702	-14.000

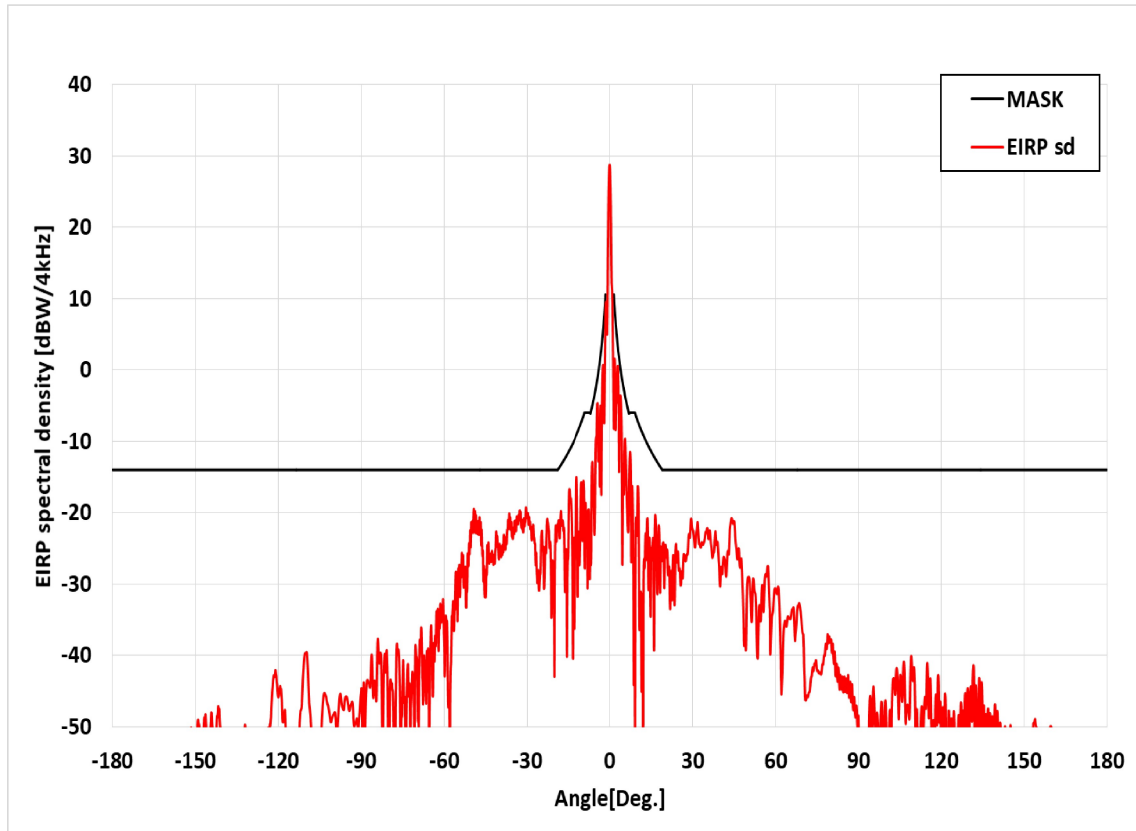
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67	-40.612	-14.000
68	-36.621	-14.000
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70	-36.812	-14.000
71	-37.415	-14.000
72	-44.748	-14.000
73	-43.996	-14.000
74	-41.627	-14.000
75	-46.401	-14.000
76	-44.110	-14.000
77	-43.368	-14.000
78	-41.790	-14.000
79	-38.600	-14.000
80	-42.695	-14.000
81	-55.097	-14.000
82	-49.186	-14.000
83	-47.729	-14.000
84	-50.376	-14.000
85	-49.931	-14.000
86	-48.442	-14.000
87	-48.777	-14.000
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103	-44.290	-14.000
104	-46.920	-14.000
105	-54.097	-14.000
106	-75.376	-14.000

107	-53.946	-14.000
108	-63.531	-14.000
109	-68.311	-14.000
110	-59.526	-14.000
111	-51.851	-14.000
112	-52.564	-14.000
113	-60.585	-14.000
114	-77.171	-14.000
115	-62.921	-14.000
116	-55.575	-14.000
117	-50.513	-14.000
118	-47.370	-14.000
119	-46.130	-14.000
120	-46.574	-14.000
121	-54.956	-14.000
122	-50.013	-14.000
123	-46.371	-14.000
124	-50.042	-14.000
125	-41.956	-14.000
126	-49.414	-14.000
127	-61.681	-14.000
128	-62.498	-14.000
129	-54.579	-14.000
130	-51.423	-14.000
131	-58.188	-14.000
132	-54.685	-14.000
133	-54.552	-14.000
134	-57.420	-14.000
135	-66.606	-14.000
136	-54.830	-14.000
137	-57.680	-14.000
138	-54.634	-14.000
139	-56.889	-14.000
140	-51.181	-14.000
141	-52.492	-14.000
142	-56.279	-14.000
143	-59.878	-14.000
144	-51.445	-14.000
145	-45.294	-14.000
146	-43.973	-14.000
147	-45.734	-14.000

148	-58.395	-14.000
149	-48.836	-14.000
150	-45.533	-14.000
151	-48.305	-14.000
152	-41.357	-14.000
153	-42.438	-14.000
154	-41.660	-14.000
155	-35.506	-14.000
156	-41.765	-14.000
157	-44.429	-14.000
158	-52.392	-14.000
159	-52.440	-14.000
160	-41.672	-14.000
161	-38.915	-14.000
162	-44.579	-14.000
163	-38.112	-14.000
164	-44.154	-14.000
165	-37.099	-14.000
166	-48.632	-14.000
167	-42.449	-14.000
168	-39.527	-14.000
169	-45.050	-14.000
170	-39.277	-14.000
171	-42.831	-14.000
172	-45.747	-14.000
173	-43.015	-14.000
174	-55.581	-14.000
175	-37.156	-14.000
176	-46.413	-14.000
177	-40.186	-14.000
178	-33.860	-14.000
179	-49.605	-14.000
180	-35.698	-14.000

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

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



-18.37 dBW/4kHz Input power spectral density @ f=13.75GHz

- **FCC EIRP spectral density regulation**

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

*The v240MT's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -18.37 dBW/ 4kHz*



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

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

F=13.75GHz, -18.37 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
-180	-72.041	-14.000
-179	-71.438	-14.000
-178	-70.143	-14.000
-177	-68.571	-14.000
-176	-66.891	-14.000
-175	-64.544	-14.000
-174	-62.039	-14.000
-173	-59.901	-14.000
-172	-57.781	-14.000
-171	-58.225	-14.000
-170	-58.772	-14.000
-169	-57.551	-14.000
-168	-58.480	-14.000
-167	-61.298	-14.000
-166	-55.213	-14.000
-165	-54.969	-14.000
-164	-53.979	-14.000
-163	-55.988	-14.000
-162	-54.726	-14.000
-161	-55.213	-14.000
-160	-53.607	-14.000
-159	-52.226	-14.000
-158	-54.511	-14.000
-157	-55.925	-14.000
-156	-52.228	-14.000
-155	-51.982	-14.000
-154	-53.457	-14.000
-153	-51.968	-14.000
-152	-51.381	-14.000
-151	-52.653	-14.000
-150	-52.090	-14.000
-149	-49.274	-14.000
-148	-57.870	-14.000
-147	-49.927	-14.000
-146	-50.376	-14.000
-145	-55.969	-14.000
-144	-49.655	-14.000
-143	-56.119	-14.000
-142	-48.493	-14.000
-141	-50.281	-14.000
-140	-64.308	-14.000

-139	-53.451	-14.000
-138	-51.844	-14.000
-137	-54.052	-14.000
-136	-53.111	-14.000
-135	-53.201	-14.000
-134	-56.656	-14.000
-133	-52.152	-14.000
-132	-50.305	-14.000
-131	-62.687	-14.000
-130	-51.894	-14.000
-129	-53.075	-14.000
-128	-59.827	-14.000
-127	-52.244	-14.000
-126	-59.840	-14.000
-125	-53.095	-14.000
-124	-51.070	-14.000
-123	-49.885	-14.000
-122	-43.616	-14.000
-121	-42.428	-14.000
-120	-45.804	-14.000
-119	-45.258	-14.000
-118	-48.170	-14.000
-117	-56.857	-14.000
-116	-53.487	-14.000
-115	-52.877	-14.000
-114	-55.273	-14.000
-113	-51.228	-14.000
-112	-47.690	-14.000
-111	-42.036	-14.000
-110	-39.584	-14.000
-109	-45.791	-14.000
-108	-51.308	-14.000
-107	-64.957	-14.000
-106	-55.900	-14.000
-105	-56.810	-14.000
-104	-46.892	-14.000
-103	-45.549	-14.000
-102	-47.173	-14.000
-101	-49.331	-14.000
-100	-48.223	-14.000
-99	-50.786	-14.000

-98	-46.107	-14.000
-97	-47.144	-14.000
-96	-46.159	-14.000
-95	-46.441	-14.000
-94	-47.085	-14.000
-93	-47.966	-14.000
-92	-49.373	-14.000
-91	-49.787	-14.000
-90	-44.680	-14.000
-89	-45.540	-14.000
-88	-43.606	-14.000
-87	-44.446	-14.000
-86	-42.847	-14.000
-85	-44.673	-14.000
-84	-37.955	-14.000
-83	-39.852	-14.000
-82	-44.533	-14.000
-81	-40.088	-14.000
-80	-53.438	-14.000
-79	-43.929	-14.000
-78	-49.754	-14.000
-77	-39.404	-14.000
-76	-47.581	-14.000
-75	-41.469	-14.000
-74	-57.572	-14.000
-73	-44.587	-14.000
-72	-46.528	-14.000
-71	-45.261	-14.000
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-53	-30.478	-14.000
-52	-30.468	-14.000
-51	-25.625	-14.000
-50	-22.549	-14.000
-49	-19.779	-14.000
-48	-22.985	-14.000
-47	-21.977	-14.000
-46	-27.528	-14.000
-45	-30.588	-14.000
-44	-25.114	-14.000
-43	-26.541	-14.000
-42	-26.202	-14.000
-41	-23.807	-14.000
-40	-24.652	-14.000
-39	-25.364	-14.000
-38	-25.166	-14.000
-37	-21.027	-14.000
-36	-22.438	-14.000
-35	-22.128	-14.000
-34	-21.522	-14.000
-33	-21.087	-14.000
-32	-21.033	-14.000
-31	-21.790	-14.000
-30	-20.750	-14.000
-29	-21.545	-14.000
-28	-21.930	-14.000
-27	-27.373	-14.000
-26	-29.153	-14.000
-25	-23.389	-14.000
-24	-30.626	-14.000
-23	-21.704	-14.000
-22	-24.954	-14.000
-21	-26.864	-14.000
-20	-25.354	-14.000
-19	-21.634	-13.969
-18	-20.386	-13.382
-17	-22.520	-12.761

-16	-25.121	-12.103
-15	-18.669	-11.402
-14	-20.393	-10.653
-13	-25.256	-9.849
-12	-15.634	-8.980
-11	-26.925	-8.035
-10	-20.190	-7.000
-9	-27.691	-6.000
-8	-30.500	-6.000
-7	-23.913	-6.127
-6	-17.002	-4.454
-5	-9.851	-2.474
-4	-9.683	-0.051
-3	-17.501	3.072
-2	-7.454	7.474
-1	5.201	
-1.00044E-11	28.730	
1	9.062	
2	-2.016	7.474
3	0.551	3.072
4	-3.984	-0.051
5	-15.577	-2.474
6	-15.345	-4.454
7	-17.096	-6.127
8	-18.651	-6.000
9	-33.704	-6.000
10	-20.373	-7.000
11	-33.470	-8.035
12	-35.759	-8.980
13	-22.905	-9.849
14	-29.512	-10.653
15	-26.874	-11.402
16	-34.686	-12.103
17	-27.355	-12.761
18	-23.429	-13.382
19	-26.772	-13.969
20	-26.590	-14.000
21	-26.397	-14.000
22	-31.243	-14.000
23	-25.966	-14.000
24	-24.382	-14.000

25	-27.698	-14.000
26	-28.489	-14.000
27	-25.917	-14.000
28	-25.824	-14.000
29	-23.494	-14.000
30	-22.330	-14.000
31	-24.576	-14.000
32	-22.050	-14.000
33	-24.875	-14.000
34	-24.309	-14.000
35	-22.799	-14.000
36	-22.930	-14.000
37	-25.705	-14.000
38	-24.157	-14.000
39	-24.095	-14.000
40	-30.312	-14.000
41	-27.208	-14.000
42	-28.279	-14.000
43	-25.783	-14.000
44	-20.898	-14.000
45	-21.174	-14.000
46	-25.715	-14.000
47	-26.829	-14.000
48	-29.210	-14.000
49	-36.272	-14.000
50	-29.166	-14.000
51	-32.131	-14.000
52	-29.232	-14.000
53	-33.355	-14.000
54	-34.398	-14.000
55	-31.288	-14.000
56	-30.705	-14.000
57	-28.071	-14.000
58	-34.192	-14.000
59	-34.047	-14.000
60	-30.632	-14.000
61	-30.380	-14.000
62	-43.102	-14.000
63	-36.525	-14.000
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65	-34.835	-14.000

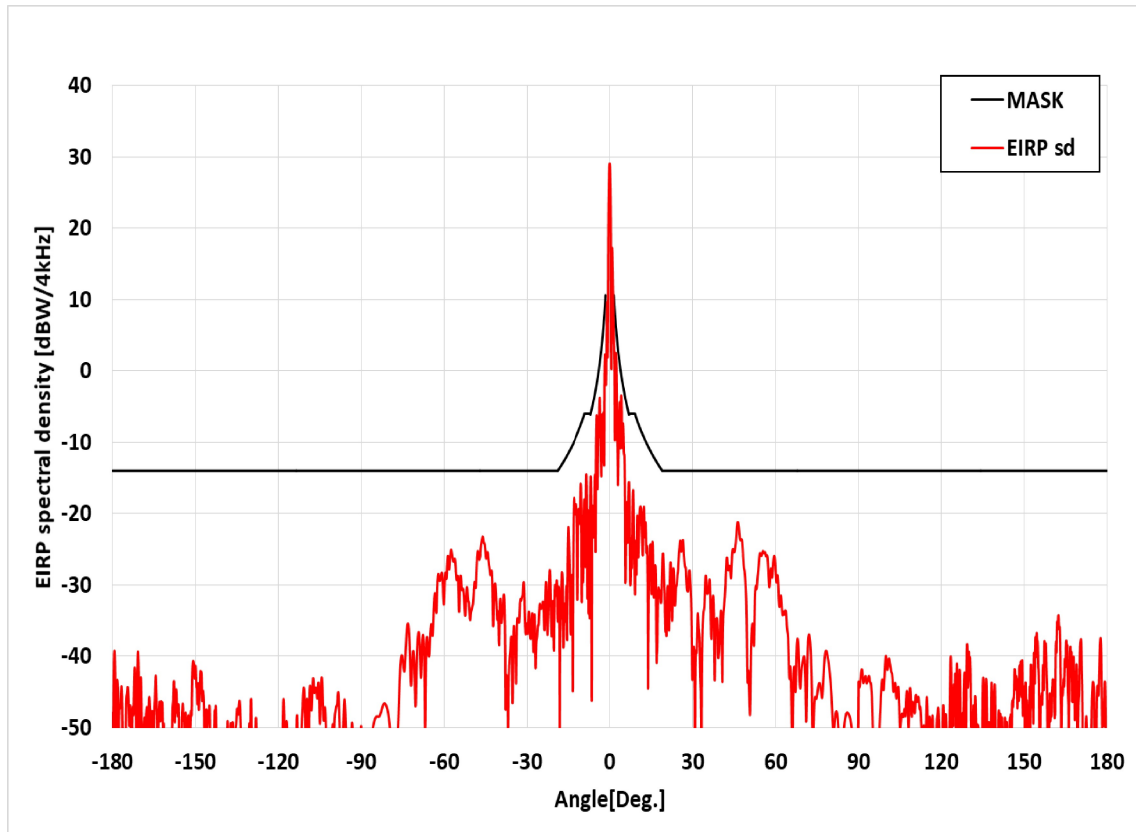
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74	-41.583	-14.000
75	-41.906	-14.000
76	-42.410	-14.000
77	-41.245	-14.000
78	-39.362	-14.000
79	-37.424	-14.000
80	-38.127	-14.000
81	-40.173	-14.000
82	-42.272	-14.000
83	-43.233	-14.000
84	-44.316	-14.000
85	-43.711	-14.000
86	-45.260	-14.000
87	-43.824	-14.000
88	-46.302	-14.000
89	-48.679	-14.000
90	-48.463	-14.000
91	-51.315	-14.000
92	-54.010	-14.000
93	-56.342	-14.000
94	-48.215	-14.000
95	-54.217	-14.000
96	-49.496	-14.000
97	-48.744	-14.000
98	-50.361	-14.000
99	-53.000	-14.000
100	-47.338	-14.000
101	-53.173	-14.000
102	-52.409	-14.000
103	-43.441	-14.000
104	-42.022	-14.000
105	-44.236	-14.000
106	-45.918	-14.000

107	-47.709	-14.000
108	-47.167	-14.000
109	-41.094	-14.000
110	-42.128	-14.000
111	-48.647	-14.000
112	-50.548	-14.000
113	-47.163	-14.000
114	-46.264	-14.000
115	-41.089	-14.000
116	-43.279	-14.000
117	-49.540	-14.000
118	-45.923	-14.000
119	-42.801	-14.000
120	-54.894	-14.000
121	-51.861	-14.000
122	-60.447	-14.000
123	-51.607	-14.000
124	-53.291	-14.000
125	-58.169	-14.000
126	-52.136	-14.000
127	-48.312	-14.000
128	-48.194	-14.000
129	-50.902	-14.000
130	-53.406	-14.000
131	-47.287	-14.000
132	-47.198	-14.000
133	-50.239	-14.000
134	-45.316	-14.000
135	-53.300	-14.000
136	-52.112	-14.000
137	-47.467	-14.000
138	-54.521	-14.000
139	-63.006	-14.000
140	-57.583	-14.000
141	-55.001	-14.000
142	-51.683	-14.000
143	-50.990	-14.000
144	-51.830	-14.000
145	-50.136	-14.000
146	-53.369	-14.000
147	-51.565	-14.000

148	-51.076	-14.000
149	-54.933	-14.000
150	-52.930	-14.000
151	-53.411	-14.000
152	-56.844	-14.000
153	-52.547	-14.000
154	-48.922	-14.000
155	-52.483	-14.000
156	-57.486	-14.000
157	-58.610	-14.000
158	-54.569	-14.000
159	-50.918	-14.000
160	-50.242	-14.000
161	-56.678	-14.000
162	-61.658	-14.000
163	-55.896	-14.000
164	-56.928	-14.000
165	-60.745	-14.000
166	-60.088	-14.000
167	-57.751	-14.000
168	-59.428	-14.000
169	-60.749	-14.000
170	-60.252	-14.000
171	-61.428	-14.000
172	-62.935	-14.000
173	-64.087	-14.000
174	-65.200	-14.000
175	-67.035	-14.000
176	-68.805	-14.000
177	-70.420	-14.000
178	-72.073	-14.000
179	-73.254	-14.000
180	-73.585	-14.000

## 9. EIRP Spectral Density of v240MT Ku-band

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



-18.37 dBW/4kHz Input power spectral density @ f=14.5GHz

- **FCC EIRP spectral density regulation**

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

*The v240MT's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -18.37 dBW/ 4kHz*

## 10. EIRP Spectral Density Data

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

F=14.5GHz, -18.37 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
-180	-47.909	-14.000
-179	-44.879	-14.000
-178	-48.406	-14.000
-177	-45.311	-14.000
-176	-66.151	-14.000
-175	-45.943	-14.000
-174	-49.729	-14.000
-173	-52.769	-14.000
-172	-41.587	-14.000
-171	-41.324	-14.000
-170	-44.639	-14.000
-169	-50.388	-14.000
-168	-50.083	-14.000
-167	-50.068	-14.000
-166	-54.864	-14.000
-165	-49.405	-14.000
-164	-47.811	-14.000
-163	-46.393	-14.000
-162	-46.488	-14.000
-161	-63.770	-14.000
-160	-56.595	-14.000
-159	-57.121	-14.000
-158	-44.996	-14.000
-157	-44.642	-14.000
-156	-49.148	-14.000
-155	-50.133	-14.000
-154	-49.551	-14.000
-153	-54.599	-14.000
-152	-51.581	-14.000
-151	-40.935	-14.000
-150	-41.365	-14.000
-149	-44.462	-14.000
-148	-42.423	-14.000
-147	-46.169	-14.000
-146	-48.390	-14.000
-145	-46.930	-14.000
-144	-53.975	-14.000
-143	-47.590	-14.000
-142	-61.395	-14.000
-141	-56.541	-14.000
-140	-59.411	-14.000

-139	-51.694	-14.000
-138	-55.153	-14.000
-137	-55.295	-14.000
-136	-53.809	-14.000
-135	-47.448	-14.000
-134	-46.658	-14.000
-133	-55.267	-14.000
-132	-56.642	-14.000
-131	-55.675	-14.000
-130	-46.195	-14.000
-129	-55.165	-14.000
-128	-50.477	-14.000
-127	-53.423	-14.000
-126	-59.080	-14.000
-125	-55.399	-14.000
-124	-60.418	-14.000
-123	-54.631	-14.000
-122	-55.060	-14.000
-121	-60.869	-14.000
-120	-60.511	-14.000
-119	-67.123	-14.000
-118	-47.580	-14.000
-117	-49.293	-14.000
-116	-54.933	-14.000
-115	-63.977	-14.000
-114	-60.676	-14.000
-113	-57.526	-14.000
-112	-52.798	-14.000
-111	-44.723	-14.000
-110	-49.637	-14.000
-109	-51.894	-14.000
-108	-47.175	-14.000
-107	-45.114	-14.000
-106	-45.883	-14.000
-105	-49.443	-14.000
-104	-45.854	-14.000
-103	-48.115	-14.000
-102	-52.807	-14.000
-101	-62.994	-14.000
-100	-51.992	-14.000
-99	-46.959	-14.000

-98	-48.315	-14.000
-97	-56.830	-14.000
-96	-46.444	-14.000
-95	-55.606	-14.000
-94	-54.869	-14.000
-93	-53.178	-14.000
-92	-51.815	-14.000
-91	-58.834	-14.000
-90	-56.532	-14.000
-89	-69.361	-14.000
-88	-59.637	-14.000
-87	-53.750	-14.000
-86	-50.415	-14.000
-85	-48.674	-14.000
-84	-48.457	-14.000
-83	-47.903	-14.000
-82	-46.704	-14.000
-81	-46.967	-14.000
-80	-49.019	-14.000
-79	-54.383	-14.000
-78	-57.727	-14.000
-77	-52.347	-14.000
-76	-41.764	-14.000
-75	-40.739	-14.000
-74	-39.208	-14.000
-73	-35.782	-14.000
-72	-43.941	-14.000
-71	-40.185	-14.000
-70	-40.328	-14.000
-69	-37.795	-14.000
-68	-37.947	-14.000
-67	-50.698	-14.000
-66	-38.472	-14.000
-65	-36.131	-14.000
-64	-34.894	-14.000
-63	-33.667	-14.000
-62	-28.923	-14.000
-61	-28.296	-14.000
-60	-30.876	-14.000
-59	-27.064	-14.000
-58	-26.576	-14.000

-57	-26.331	-14.000
-56	-27.394	-14.000
-55	-29.943	-14.000
-54	-29.159	-14.000
-53	-31.355	-14.000
-52	-30.681	-14.000
-51	-33.329	-14.000
-50	-33.125	-14.000
-49	-29.670	-14.000
-48	-25.273	-14.000
-47	-25.249	-14.000
-46	-23.472	-14.000
-45	-26.140	-14.000
-44	-26.761	-14.000
-43	-27.985	-14.000
-42	-30.774	-14.000
-41	-34.649	-14.000
-40	-33.550	-14.000
-39	-33.732	-14.000
-38	-40.782	-14.000
-37	-52.686	-14.000
-36	-38.133	-14.000
-35	-36.460	-14.000
-34	-41.027	-14.000
-33	-35.256	-14.000
-32	-31.740	-14.000
-31	-32.901	-14.000
-30	-36.540	-14.000
-29	-36.992	-14.000
-28	-36.575	-14.000
-27	-41.636	-14.000
-26	-35.652	-14.000
-25	-33.301	-14.000
-24	-35.030	-14.000
-23	-32.042	-14.000
-22	-28.215	-14.000
-21	-34.234	-14.000
-20	-29.984	-14.000
-19	-35.094	-13.969
-18	-35.143	-13.382
-17	-38.744	-12.761



-16	-30.848	-12.103
-15	-23.110	-11.402
-14	-29.199	-10.653
-13	-17.783	-9.849
-12	-21.286	-8.980
-11	-20.236	-8.035
-10	-29.701	-7.000
-9	-18.934	-6.000
-8	-22.104	-6.000
-7	-16.864	-6.127
-6	-22.517	-4.454
-5	-15.863	-2.474
-4	-9.318	-0.051
-3	-14.693	3.072
-2	-13.179	7.474
-1	8.199	
-1.00044E-11	29.030	
1	16.387	
2	-7.397	7.474
3	-15.927	3.072
4	-8.048	-0.051
5	-9.623	-2.474
6	-22.300	-4.454
7	-15.611	-6.127
8	-25.077	-6.000
9	-25.833	-6.000
10	-20.292	-7.000
11	-19.242	-8.035
12	-25.804	-8.980
13	-21.224	-9.849
14	-37.100	-10.653
15	-27.506	-11.402
16	-31.752	-12.103
17	-40.850	-12.761
18	-30.803	-13.382
19	-27.721	-13.969
20	-33.915	-14.000
21	-30.176	-14.000
22	-26.838	-14.000
23	-28.182	-14.000
24	-30.247	-14.000

25	-26.247	-14.000
26	-25.297	-14.000
27	-26.516	-14.000
28	-30.756	-14.000
29	-28.353	-14.000
30	-42.061	-14.000
31	-44.701	-14.000
32	-34.272	-14.000
33	-45.321	-14.000
34	-33.752	-14.000
35	-29.614	-14.000
36	-29.626	-14.000
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60	-27.304	-14.000
61	-29.666	-14.000
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63	-33.729	-14.000
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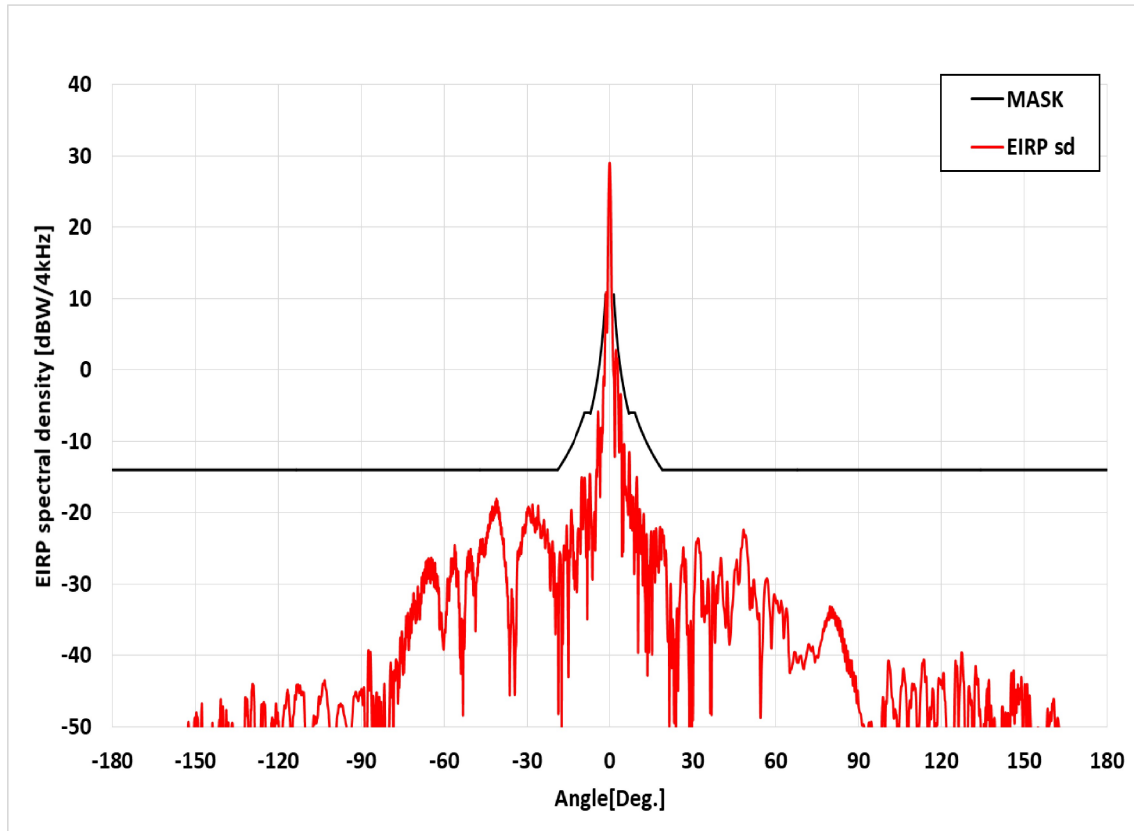
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75	-45.664	-14.000
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78	-39.647	-14.000
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80	-43.762	-14.000
81	-50.684	-14.000
82	-47.756	-14.000
83	-51.863	-14.000
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85	-49.414	-14.000
86	-47.890	-14.000
87	-48.614	-14.000
88	-52.715	-14.000
89	-61.924	-14.000
90	-49.750	-14.000
91	-42.326	-14.000
92	-43.539	-14.000
93	-43.756	-14.000
94	-42.935	-14.000
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96	-53.544	-14.000
97	-62.732	-14.000
98	-47.355	-14.000
99	-44.388	-14.000
100	-39.961	-14.000
101	-40.455	-14.000
102	-42.238	-14.000
103	-44.634	-14.000
104	-45.361	-14.000
105	-49.658	-14.000
106	-48.238	-14.000

107	-48.147	-14.000
108	-47.395	-14.000
109	-45.507	-14.000
110	-46.875	-14.000
111	-45.737	-14.000
112	-46.514	-14.000
113	-50.977	-14.000
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115	-47.152	-14.000
116	-49.618	-14.000
117	-48.892	-14.000
118	-52.934	-14.000
119	-47.258	-14.000
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121	-50.893	-14.000
122	-54.452	-14.000
123	-50.420	-14.000
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126	-57.092	-14.000
127	-51.737	-14.000
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129	-63.799	-14.000
130	-39.383	-14.000
131	-47.891	-14.000
132	-50.638	-14.000
133	-49.593	-14.000
134	-54.166	-14.000
135	-46.540	-14.000
136	-53.787	-14.000
137	-73.037	-14.000
138	-62.230	-14.000
139	-49.383	-14.000
140	-56.156	-14.000
141	-48.905	-14.000
142	-48.561	-14.000
143	-50.772	-14.000
144	-55.027	-14.000
145	-48.808	-14.000
146	-47.089	-14.000
147	-43.993	-14.000

148	-44.581	-14.000
149	-45.476	-14.000
150	-45.281	-14.000
151	-46.213	-14.000
152	-44.609	-14.000
153	-42.919	-14.000
154	-39.043	-14.000
155	-38.509	-14.000
156	-47.187	-14.000
157	-42.298	-14.000
158	-39.427	-14.000
159	-48.768	-14.000
160	-47.505	-14.000
161	-47.869	-14.000
162	-35.199	-14.000
163	-36.698	-14.000
164	-45.525	-14.000
165	-41.518	-14.000
166	-46.136	-14.000
167	-41.448	-14.000
168	-40.943	-14.000
169	-41.136	-14.000
170	-43.913	-14.000
171	-42.975	-14.000
172	-53.901	-14.000
173	-52.645	-14.000
174	-52.845	-14.000
175	-43.601	-14.000
176	-54.469	-14.000
177	-45.237	-14.000
178	-40.391	-14.000
179	-47.531	-14.000
180	-51.526	-14.000

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

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



-18.37 dBW/4kHz Input power spectral density @ f=14.5GHz

- **FCC EIRP spectral density regulation**

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

*The v240MT's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -18.37 dBW/ 4kHz*

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

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

F=14.5GHz, -18.37 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
-180	-71.673	-14.000
-179	-74.771	-14.000
-178	-77.700	-14.000
-177	-80.116	-14.000
-176	-81.427	-14.000
-175	-81.613	-14.000
-174	-80.667	-14.000
-173	-78.557	-14.000
-172	-75.750	-14.000
-171	-72.678	-14.000
-170	-69.589	-14.000
-169	-65.485	-14.000
-168	-63.333	-14.000
-167	-67.628	-14.000
-166	-66.302	-14.000
-165	-61.223	-14.000
-164	-59.919	-14.000
-163	-57.582	-14.000
-162	-60.332	-14.000
-161	-62.272	-14.000
-160	-60.834	-14.000
-159	-59.210	-14.000
-158	-56.875	-14.000
-157	-62.273	-14.000
-156	-58.098	-14.000
-155	-59.359	-14.000
-154	-57.584	-14.000
-153	-58.069	-14.000
-152	-56.083	-14.000
-151	-54.326	-14.000
-150	-49.949	-14.000
-149	-53.119	-14.000
-148	-49.651	-14.000
-147	-54.764	-14.000
-146	-63.947	-14.000
-145	-56.236	-14.000
-144	-50.976	-14.000
-143	-50.273	-14.000
-142	-59.717	-14.000
-141	-47.263	-14.000
-140	-49.267	-14.000

-139	-49.107	-14.000
-138	-52.953	-14.000
-137	-50.463	-14.000
-136	-54.535	-14.000
-135	-59.750	-14.000
-134	-52.711	-14.000
-133	-55.577	-14.000
-132	-45.871	-14.000
-131	-49.391	-14.000
-130	-47.574	-14.000
-129	-44.230	-14.000
-128	-59.309	-14.000
-127	-64.140	-14.000
-126	-47.974	-14.000
-125	-46.845	-14.000
-124	-56.331	-14.000
-123	-54.287	-14.000
-122	-48.977	-14.000
-121	-47.702	-14.000
-120	-49.195	-14.000
-119	-54.732	-14.000
-118	-47.618	-14.000
-117	-45.320	-14.000
-116	-48.200	-14.000
-115	-51.167	-14.000
-114	-45.575	-14.000
-113	-44.246	-14.000
-112	-44.930	-14.000
-111	-45.303	-14.000
-110	-58.615	-14.000
-109	-56.795	-14.000
-108	-52.786	-14.000
-107	-49.691	-14.000
-106	-48.834	-14.000
-105	-46.791	-14.000
-104	-43.993	-14.000
-103	-44.462	-14.000
-102	-47.528	-14.000
-101	-53.287	-14.000
-100	-57.207	-14.000
-99	-49.593	-14.000

-98	-47.159	-14.000
-97	-47.018	-14.000
-96	-48.721	-14.000
-95	-51.769	-14.000
-94	-51.052	-14.000
-93	-46.741	-14.000
-92	-45.182	-14.000
-91	-46.048	-14.000
-90	-44.732	-14.000
-89	-45.001	-14.000
-88	-61.298	-14.000
-87	-43.008	-14.000
-86	-47.466	-14.000
-85	-55.488	-14.000
-84	-59.586	-14.000
-83	-47.272	-14.000
-82	-51.756	-14.000
-81	-52.242	-14.000
-80	-50.773	-14.000
-79	-45.204	-14.000
-78	-42.729	-14.000
-77	-41.316	-14.000
-76	-38.242	-14.000
-75	-42.693	-14.000
-74	-37.813	-14.000
-73	-37.881	-14.000
-72	-36.852	-14.000
-71	-32.722	-14.000
-70	-34.868	-14.000
-69	-33.982	-14.000
-68	-30.407	-14.000
-67	-29.804	-14.000
-66	-29.277	-14.000
-65	-29.868	-14.000
-64	-29.301	-14.000
-63	-29.072	-14.000
-62	-30.551	-14.000
-61	-34.983	-14.000
-60	-37.312	-14.000
-59	-30.420	-14.000
-58	-28.929	-14.000

-57	-28.538	-14.000
-56	-26.376	-14.000
-55	-28.245	-14.000
-54	-42.524	-14.000
-53	-35.063	-14.000
-52	-28.956	-14.000
-51	-27.192	-14.000
-50	-28.505	-14.000
-49	-30.602	-14.000
-48	-28.835	-14.000
-47	-23.805	-14.000
-46	-25.848	-14.000
-45	-23.529	-14.000
-44	-22.620	-14.000
-43	-20.750	-14.000
-42	-19.212	-14.000
-41	-19.990	-14.000
-40	-20.522	-14.000
-39	-23.554	-14.000
-38	-27.500	-14.000
-37	-34.151	-14.000
-36	-36.136	-14.000
-35	-35.767	-14.000
-34	-35.525	-14.000
-33	-26.118	-14.000
-32	-24.367	-14.000
-31	-21.729	-14.000
-30	-19.551	-14.000
-29	-20.472	-14.000
-28	-19.887	-14.000
-27	-22.248	-14.000
-26	-20.111	-14.000
-25	-23.233	-14.000
-24	-21.046	-14.000
-23	-23.841	-14.000
-22	-24.731	-14.000
-21	-24.099	-14.000
-20	-33.211	-14.000
-19	-32.406	-13.969
-18	-25.826	-13.382
-17	-29.257	-12.761

-16	-24.532	-12.103
-15	-33.428	-11.402
-14	-20.091	-10.653
-13	-26.492	-9.849
-12	-28.975	-8.980
-11	-23.088	-8.035
-10	-15.649	-7.000
-9	-15.429	-6.000
-8	-26.230	-6.000
-7	-15.958	-6.127
-6	-23.392	-4.454
-5	-18.437	-2.474
-4	-8.742	-0.051
-3	-9.758	3.072
-2	-2.214	7.474
-1	7.138	
-1.00044E-11	29.030	
1	6.731	
2	-2.915	7.474
3	-0.571	3.072
4	-3.395	-0.051
5	-15.893	-2.474
6	-17.335	-4.454
7	-12.407	-6.127
8	-19.495	-6.000
9	-23.917	-6.000
10	-17.088	-7.000
11	-20.136	-8.035
12	-30.116	-8.980
13	-39.480	-9.849
14	-27.409	-10.653
15	-22.646	-11.402
16	-22.600	-12.103
17	-24.100	-12.761
18	-24.906	-13.382
19	-22.365	-13.969
20	-27.405	-14.000
21	-37.746	-14.000
22	-30.231	-14.000
23	-36.028	-14.000
24	-58.733	-14.000

25	-37.303	-14.000
26	-27.386	-14.000
27	-28.734	-14.000
28	-37.061	-14.000
29	-51.041	-14.000
30	-44.135	-14.000
31	-26.831	-14.000
32	-23.612	-14.000
33	-26.951	-14.000
34	-33.382	-14.000
35	-33.372	-14.000
36	-32.347	-14.000
37	-39.809	-14.000
38	-37.034	-14.000
39	-32.086	-14.000
40	-27.700	-14.000
41	-31.748	-14.000
42	-36.066	-14.000
43	-35.461	-14.000
44	-35.499	-14.000
45	-29.491	-14.000
46	-26.612	-14.000
47	-29.520	-14.000
48	-24.459	-14.000
49	-23.366	-14.000
50	-26.374	-14.000
51	-31.812	-14.000
52	-29.968	-14.000
53	-32.247	-14.000
54	-34.137	-14.000
55	-42.044	-14.000
56	-31.317	-14.000
57	-29.256	-14.000
58	-34.080	-14.000
59	-34.864	-14.000
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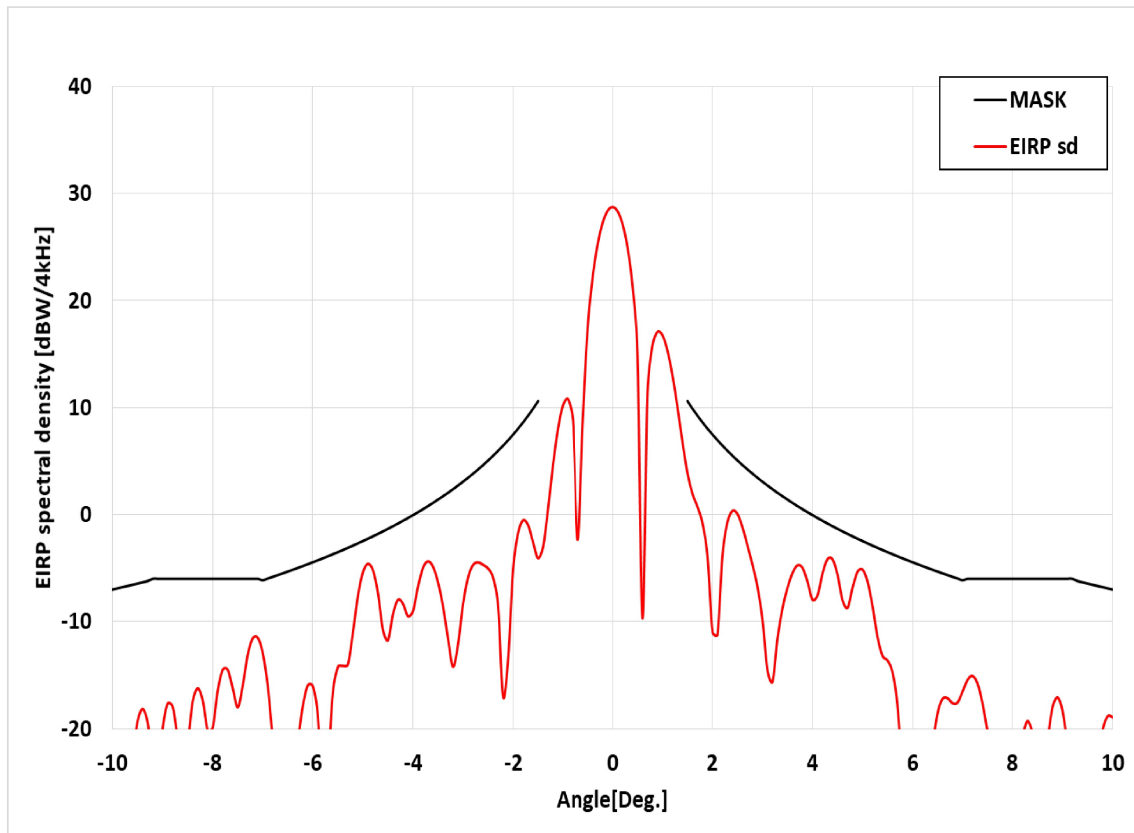
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83	-35.807	-14.000
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97	-56.255	-14.000
98	-56.438	-14.000
99	-45.878	-14.000
100	-46.428	-14.000
101	-40.725	-14.000
102	-44.981	-14.000
103	-48.833	-14.000
104	-49.576	-14.000
105	-47.692	-14.000
106	-43.371	-14.000

107	-43.848	-14.000
108	-64.131	-14.000
109	-47.162	-14.000
110	-44.344	-14.000
111	-46.716	-14.000
112	-49.988	-14.000
113	-42.164	-14.000
114	-41.956	-14.000
115	-48.959	-14.000
116	-47.291	-14.000
117	-44.819	-14.000
118	-50.634	-14.000
119	-43.788	-14.000
120	-43.820	-14.000
121	-43.289	-14.000
122	-51.368	-14.000
123	-54.518	-14.000
124	-54.142	-14.000
125	-43.865	-14.000
126	-44.444	-14.000
127	-42.815	-14.000
128	-43.010	-14.000
129	-55.883	-14.000
130	-44.478	-14.000
131	-46.278	-14.000
132	-48.024	-14.000
133	-44.062	-14.000
134	-47.555	-14.000
135	-54.360	-14.000
136	-48.406	-14.000
137	-47.453	-14.000
138	-47.089	-14.000
139	-48.994	-14.000
140	-65.069	-14.000
141	-62.038	-14.000
142	-47.594	-14.000
143	-52.963	-14.000
144	-48.678	-14.000
145	-50.326	-14.000
146	-43.176	-14.000
147	-44.894	-14.000



148	-46.708	-14.000
149	-43.054	-14.000
150	-48.121	-14.000
151	-45.493	-14.000
152	-45.642	-14.000
153	-57.213	-14.000
154	-56.897	-14.000
155	-50.172	-14.000
156	-51.838	-14.000
157	-52.107	-14.000
158	-54.832	-14.000
159	-50.418	-14.000
160	-48.722	-14.000
161	-47.817	-14.000
162	-49.077	-14.000
163	-51.134	-14.000
164	-52.696	-14.000
165	-70.478	-14.000
166	-52.379	-14.000
167	-62.542	-14.000
168	-59.068	-14.000
169	-58.327	-14.000
170	-61.314	-14.000
171	-55.476	-14.000
172	-60.175	-14.000
173	-67.435	-14.000
174	-68.764	-14.000
175	-61.812	-14.000
176	-59.627	-14.000
177	-62.101	-14.000
178	-66.627	-14.000
179	-67.47	-14.000
180	-68.904	-14.000

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



-18.37 dBW/4kHz Input power spectral density @ f=13.75GHz

- **FCC EIRP spectral density regulation**

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

*The v240MT's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -18.37 dBW/ 4kHz*

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

F=13.75GHz, -18.37 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
-10	-27.712	-7.000
-9.9	-24.929	-6.891
-9.8	-26.625	-6.781
-9.7	-28.381	-6.669
-9.6	-22.943	-6.557
-9.5	-19.273	-6.443
-9.4	-18.155	-6.328
-9.3	-19.405	-6.212
-9.2	-23.256	-6.000
-9.1	-24.574	-6.000
-9	-19.957	-6.000
-8.9	-17.646	-6.000
-8.8	-17.955	-6.000
-8.7	-21.288	-6.000
-8.6	-27.794	-6.000
-8.5	-21.825	-6.000
-8.4	-17.457	-6.000
-8.3	-16.233	-6.000
-8.2	-17.348	-6.000
-8.1	-20.171	-6.000
-8	-19.905	-6.000
-7.9	-16.435	-6.000
-7.8	-14.502	-6.000
-7.7	-14.506	-6.000
-7.6	-16.236	-6.000
-7.5	-17.997	-6.000
-7.4	-15.950	-6.000
-7.3	-13.061	-6.000
-7.2	-11.552	-6.000
-7.1	-11.510	-6.000
-7	-12.939	-6.127
-6.9	-16.031	-5.971
-6.8	-20.833	-5.813
-6.7	-23.241	-5.652
-6.6	-21.416	-5.489
-6.5	-21.144	-5.323
-6.4	-22.250	-5.154
-6.3	-21.019	-4.984
-6.2	-17.847	-4.810
-6.1	-15.950	-4.633
-6	-16.025	-4.454

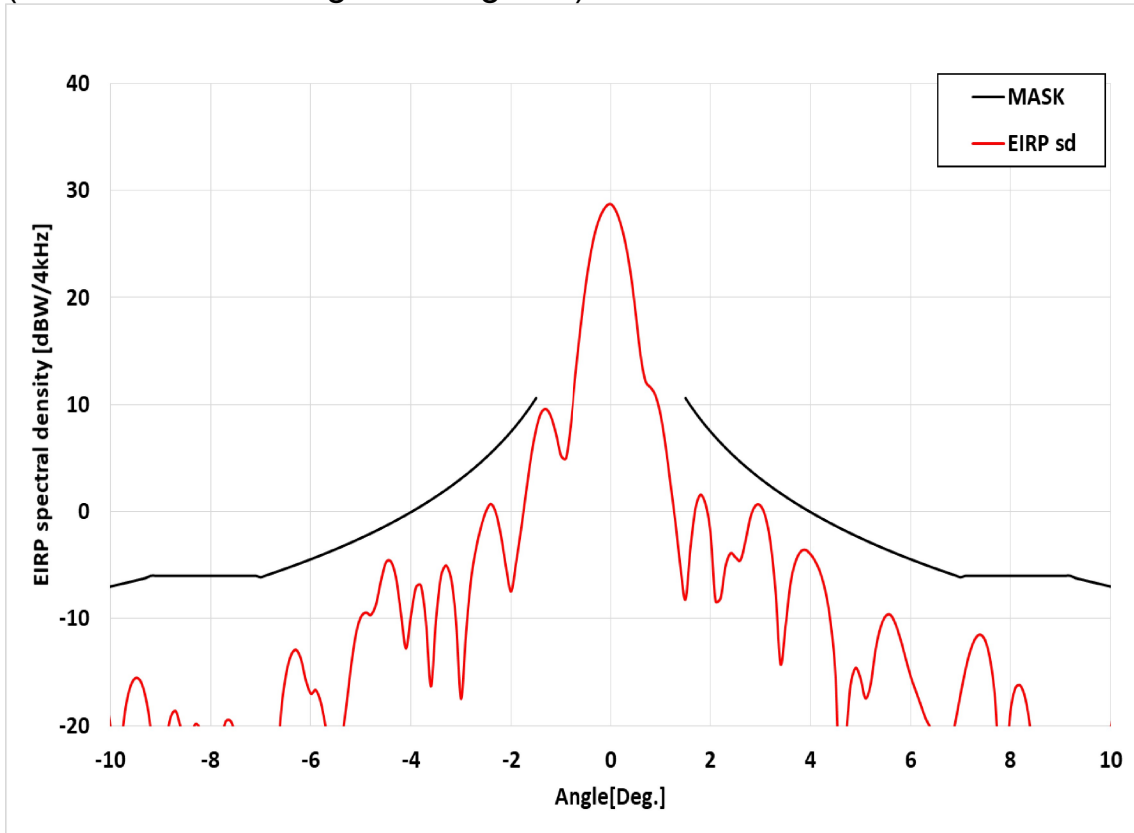
-5.9	-18.806	-4.271
-5.8	-28.539	-4.086
-5.7	-23.802	-3.897
-5.6	-16.609	-3.705
-5.5	-14.242	-3.509
-5.4	-14.140	-3.310
-5.3	-14.011	-3.107
-5.2	-11.053	-2.900
-5.1	-7.609	-2.689
-5	-5.402	-2.474
-4.9	-4.593	-2.255
-4.8	-5.194	-2.031
-4.7	-7.339	-1.802
-4.6	-10.778	-1.569
-4.5	-11.751	-1.330
-4.4	-9.314	-1.086
-4.3	-7.974	-0.837
-4.2	-8.326	-0.581
-4.1	-9.510	-0.320
-4	-9.015	-0.051
-3.9	-6.734	0.223
-3.8	-4.973	0.505
-3.7	-4.367	0.795
-3.6	-4.864	1.092
-3.5	-6.312	1.398
-3.4	-8.578	1.713
-3.3	-11.593	2.037
-3.2	-14.211	2.371
-3.1	-12.127	2.716
-3	-8.368	3.072
-2.9	-5.888	3.440
-2.8	-4.707	3.821
-2.7	-4.471	4.216
-2.6	-4.694	4.626
-2.5	-5.041	5.051
-2.4	-5.878	5.495
-2.3	-8.483	5.957
-2.2	-17.019	6.439
-2.1	-13.513	6.945
-2	-5.158	7.474
-1.9	-1.717	8.031

-1.8	-0.535	8.618
-1.7	-0.984	9.239
-1.6	-2.602	9.897
-1.5	-4.087	10.598
-1.4	-2.996	
-1.3	0.621	
-1.2	4.729	
-1.1	8.100	
-1	10.240	
-0.9	10.778	
-0.8	8.757	
-0.7	-2.359	
-0.6	8.344	
-0.5	17.183	
-0.4	22.033	
-0.3	25.171	
-0.2	27.199	
-0.1	28.353	
-1.00044E-11	28.730	
0.1	28.348	
0.2	27.148	
0.3	24.963	
0.4	21.377	
0.5	15.058	
0.6	-9.702	
0.7	11.391	
0.8	15.829	
0.9	17.076	
1	16.743	
1.1	15.306	
1.2	12.993	
1.3	10.017	
1.4	6.753	
1.5	3.865	10.598
1.6	1.943	9.897
1.7	0.717	9.239
1.8	-0.816	8.618
1.9	-3.899	8.031
2	-10.962	7.474
2.1	-11.190	6.945
2.2	-3.800	6.439

2.3	-0.689	5.957
2.4	0.350	5.495
2.5	0.042	5.051
2.6	-1.197	4.626
2.7	-2.913	4.216
2.8	-4.717	3.821
2.9	-6.767	3.440
3	-9.842	3.072
3.1	-14.557	2.716
3.2	-15.642	2.371
3.3	-11.598	2.037
3.4	-8.758	1.713
3.5	-6.844	1.398
3.6	-5.461	1.092
3.7	-4.743	0.795
3.8	-4.973	0.505
3.9	-6.282	0.223
4	-7.952	-0.051
4.1	-7.559	-0.320
4.2	-5.503	-0.581
4.3	-4.159	-0.837
4.4	-4.178	-1.086
4.5	-5.614	-1.330
4.6	-7.984	-1.569
4.7	-8.715	-1.802
4.8	-6.856	-2.031
4.9	-5.350	-2.255
5	-5.141	-2.474
5.1	-6.242	-2.689
5.2	-8.535	-2.900
5.3	-11.418	-3.107
5.4	-13.197	-3.310
5.5	-13.630	-3.509
5.6	-14.734	-3.705
5.7	-17.903	-3.897
5.8	-25.353	-4.086
5.9	-37.778	-4.271
6	-25.636	-4.454
6.1	-25.109	-4.633
6.2	-31.295	-4.810
6.3	-31.261	-4.984

6.4	-22.195	-5.154
6.5	-18.598	-5.323
6.6	-17.226	-5.489
6.7	-17.153	-5.652
6.8	-17.623	-5.813
6.9	-17.562	-5.971
7	-16.546	-6.127
7.1	-15.451	-6.000
7.2	-15.080	-6.000
7.3	-15.775	-6.000
7.4	-17.639	-6.000
7.5	-20.168	-6.000
7.6	-21.242	-6.000
7.7	-20.587	-6.000
7.8	-20.883	-6.000
7.9	-23.887	-6.000
8	-32.969	-6.000
8.1	-26.747	-6.000
8.2	-20.970	-6.000
8.3	-19.281	-6.000
8.4	-20.505	-6.000
8.5	-26.096	-6.000
8.6	-33.742	-6.000
8.7	-21.810	-6.000
8.8	-17.991	-6.000
8.9	-17.078	-6.000
9	-18.335	-6.000
9.1	-22.126	-6.000
9.2	-31.153	-6.000
9.3	-36.904	-6.212
9.4	-29.396	-6.328
9.5	-29.655	-6.443
9.6	-28.545	-6.557
9.7	-23.460	-6.669
9.8	-20.183	-6.781
9.9	-18.866	-6.891
10	-18.934	-7.000

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



-18.37 dBW/4kHz Input power spectral density @ f=13.75GHz

▪ **FCC EIRP spectral density regulation**

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

*The v240MT's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -18.37 dBW/ 4kHz*

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

F=13.75GHz, -18.37 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
-10	-20.190	-7.000
-9.9	-23.903	-6.891
-9.8	-22.005	-6.781
-9.7	-18.309	-6.669
-9.6	-16.291	-6.557
-9.5	-15.544	-6.443
-9.4	-15.867	-6.328
-9.3	-17.362	-6.212
-9.2	-20.331	-6.000
-9.1	-25.581	-6.000
-9	-27.691	-6.000
-8.9	-21.961	-6.000
-8.8	-19.193	-6.000
-8.7	-18.631	-6.000
-8.6	-20.153	-6.000
-8.5	-21.636	-6.000
-8.4	-20.971	-6.000
-8.3	-19.826	-6.000
-8.2	-20.477	-6.000
-8.1	-23.447	-6.000
-8	-30.500	-6.000
-7.9	-27.295	-6.000
-7.8	-21.758	-6.000
-7.7	-19.616	-6.000
-7.6	-19.580	-6.000
-7.5	-21.003	-6.000
-7.4	-23.530	-6.000
-7.3	-27.241	-6.000
-7.2	-29.308	-6.000
-7.1	-26.704	-6.000
-7	-23.913	-6.127
-6.9	-23.678	-5.971
-6.8	-27.286	-5.813
-6.7	-26.096	-5.652
-6.6	-19.033	-5.489
-6.5	-15.344	-5.323
-6.4	-13.476	-5.154
-6.3	-12.909	-4.984
-6.2	-13.750	-4.810
-6.1	-15.766	-4.633
-6	-17.002	-4.454

-5.9	-16.688	-4.271
-5.8	-17.851	-4.086
-5.7	-20.230	-3.897
-5.6	-22.707	-3.705
-5.5	-23.094	-3.509
-5.4	-21.793	-3.310
-5.3	-18.482	-3.107
-5.2	-14.591	-2.900
-5.1	-11.464	-2.689
-5	-9.851	-2.474
-4.9	-9.430	-2.255
-4.8	-9.645	-2.031
-4.7	-8.691	-1.802
-4.6	-6.488	-1.569
-4.5	-4.749	-1.330
-4.4	-4.666	-1.086
-4.3	-6.142	-0.837
-4.2	-9.509	-0.581
-4.1	-12.787	-0.320
-4	-9.683	-0.051
-3.9	-7.081	0.223
-3.8	-6.938	0.505
-3.7	-10.327	0.795
-3.6	-16.320	1.092
-3.5	-10.166	1.398
-3.4	-6.036	1.713
-3.3	-5.039	2.037
-3.2	-6.205	2.371
-3.1	-10.236	2.716
-3	-17.501	3.072
-2.9	-11.374	3.440
-2.8	-6.332	3.821
-2.7	-3.450	4.216
-2.6	-1.431	4.626
-2.5	0.037	5.051
-2.4	0.703	5.495
-2.3	-0.182	5.957
-2.2	-2.313	6.439
-2.1	-5.243	6.945
-2	-7.454	7.474
-1.9	-4.776	8.031

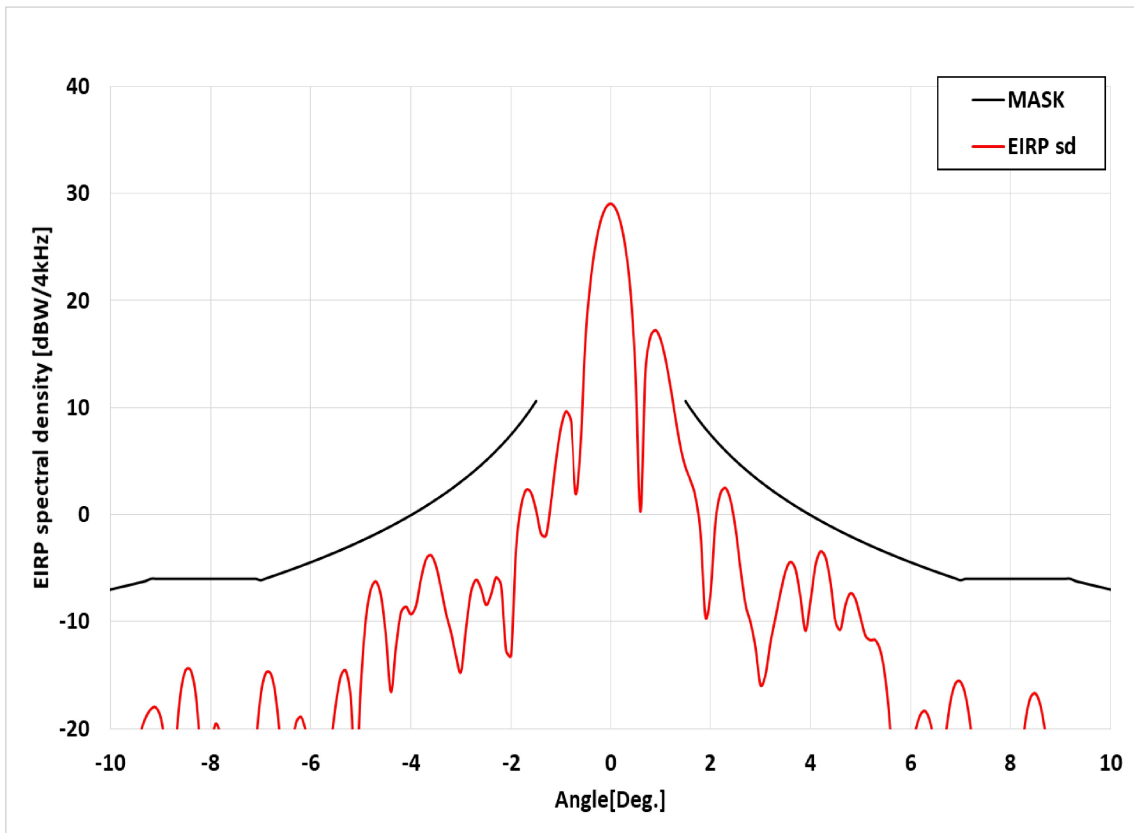
-1.8	-1.638	8.618
-1.7	1.804	9.239
-1.6	5.144	9.897
-1.5	7.672	10.598
-1.4	9.227	
-1.3	9.568	
-1.2	8.831	
-1.1	7.199	
-1	5.201	
-0.9	5.004	
-0.8	8.304	
-0.7	12.979	
-0.6	17.196	
-0.5	20.990	
-0.4	24.008	
-0.3	26.220	
-0.2	27.614	
-0.1	28.446	
-1.00044E-11	28.730	
0.1	28.174	
0.2	26.923	
0.3	25.028	
0.4	22.349	
0.5	18.705	
0.6	14.628	
0.7	12.168	
0.8	11.601	
0.9	10.830	
1	9.062	
1.1	6.209	
1.2	2.611	
1.3	-1.069	
1.4	-5.220	
1.5	-8.206	10.598
1.6	-3.381	9.897
1.7	0.304	9.239
1.8	1.571	8.618
1.9	0.732	8.031
2	-2.016	7.474
2.1	-8.365	6.945
2.2	-8.132	6.439

2.3	-5.133	5.957
2.4	-3.899	5.495
2.5	-4.274	5.051
2.6	-4.526	4.626
2.7	-2.730	4.216
2.8	-0.505	3.821
2.9	0.551	3.440
3	0.551	3.072
3.1	-0.498	2.716
3.2	-2.917	2.371
3.3	-7.360	2.037
3.4	-14.231	1.713
3.5	-10.743	1.398
3.6	-6.721	1.092
3.7	-4.692	0.795
3.8	-3.762	0.505
3.9	-3.581	0.223
4	-3.984	-0.051
4.1	-4.695	-0.320
4.2	-5.776	-0.581
4.3	-7.499	-0.837
4.4	-10.329	-1.086
4.5	-15.332	-1.330
4.6	-27.117	-1.569
4.7	-21.760	-1.802
4.8	-16.240	-2.031
4.9	-14.614	-2.255
5	-15.577	-2.474
5.1	-17.448	-2.689
5.2	-16.249	-2.900
5.3	-12.966	-3.107
5.4	-10.825	-3.310
5.5	-9.783	-3.509
5.6	-9.657	-3.705
5.7	-10.508	-3.897
5.8	-11.930	-4.086
5.9	-13.656	-4.271
6	-15.345	-4.454
6.1	-16.699	-4.633
6.2	-17.990	-4.810
6.3	-19.286	-4.984



6.4	-20.220	-5.154
6.5	-21.304	-5.323
6.6	-22.350	-5.489
6.7	-22.714	-5.652
6.8	-21.803	-5.813
6.9	-19.569	-5.971
7	-17.096	-6.127
7.1	-14.766	-6.000
7.2	-12.959	-6.000
7.3	-11.840	-6.000
7.4	-11.502	-6.000
7.5	-12.123	-6.000
7.6	-14.030	-6.000
7.7	-18.028	-6.000
7.8	-26.740	-6.000
7.9	-24.797	-6.000
8	-18.651	-6.000
8.1	-16.461	-6.000
8.2	-16.266	-6.000
8.3	-17.547	-6.000
8.4	-20.417	-6.000
8.5	-24.934	-6.000
8.6	-31.608	-6.000
8.7	-43.857	-6.000
8.8	-41.690	-6.000
8.9	-36.356	-6.000
9	-33.704	-6.000
9.1	-34.409	-6.000
9.2	-51.105	-6.000
9.3	-31.884	-6.212
9.4	-25.023	-6.328
9.5	-21.750	-6.443
9.6	-20.676	-6.557
9.7	-21.051	-6.669
9.8	-22.563	-6.781
9.9	-23.161	-6.891
10	-20.373	-7.000

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



-18.37 dBW/4kHz Input power spectral density @ f=14.5GHz

▪ **FCC EIRP spectral density regulation**

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

*The v240MT's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -18.37 dBW/ 4kHz*

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

F=14.5GHz, -18.37 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
-10	-29.701	-7.000
-9.9	-25.172	-6.891
-9.8	-25.603	-6.781
-9.7	-29.567	-6.669
-9.6	-28.428	-6.557
-9.5	-23.200	-6.443
-9.4	-20.387	-6.328
-9.3	-18.976	-6.212
-9.2	-18.210	-6.000
-9.1	-18.007	-6.000
-9	-18.934	-6.000
-8.9	-22.092	-6.000
-8.8	-27.466	-6.000
-8.7	-21.519	-6.000
-8.6	-16.613	-6.000
-8.5	-14.527	-6.000
-8.4	-14.541	-6.000
-8.3	-16.772	-6.000
-8.2	-22.664	-6.000
-8.1	-31.884	-6.000
-8	-22.104	-6.000
-7.9	-19.535	-6.000
-7.8	-20.764	-6.000
-7.7	-26.823	-6.000
-7.6	-33.980	-6.000
-7.5	-23.766	-6.000
-7.4	-21.813	-6.000
-7.3	-24.615	-6.000
-7.2	-34.651	-6.000
-7.1	-22.193	-6.000
-7	-16.864	-6.127
-6.9	-14.803	-5.971
-6.8	-14.869	-5.813
-6.7	-17.082	-5.652
-6.6	-22.797	-5.489
-6.5	-46.228	-5.323
-6.4	-23.460	-5.154
-6.3	-19.534	-4.984
-6.2	-18.902	-4.810
-6.1	-20.250	-4.633
-6	-22.517	-4.454

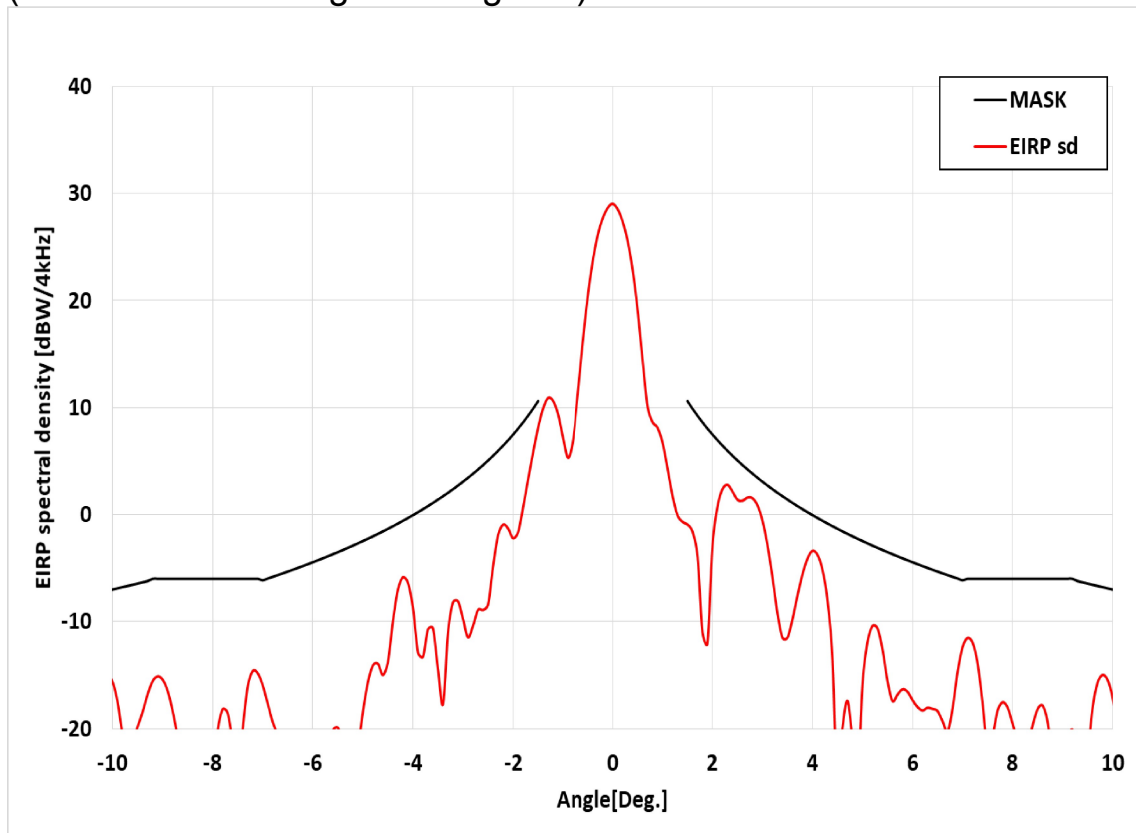
-5.9	-23.317	-4.271
-5.8	-22.842	-4.086
-5.7	-22.868	-3.897
-5.6	-21.252	-3.705
-5.5	-17.626	-3.509
-5.4	-15.062	-3.310
-5.3	-14.600	-3.107
-5.2	-17.202	-2.900
-5.1	-25.373	-2.689
-5	-15.863	-2.474
-4.9	-9.752	-2.255
-4.8	-6.953	-2.031
-4.7	-6.258	-1.802
-4.6	-7.547	-1.569
-4.5	-11.367	-1.330
-4.4	-16.575	-1.086
-4.3	-12.384	-0.837
-4.2	-9.167	-0.581
-4.1	-8.601	-0.320
-4	-9.318	-0.051
-3.9	-8.533	0.223
-3.8	-6.010	0.505
-3.7	-4.199	0.795
-3.6	-3.798	1.092
-3.5	-4.787	1.398
-3.4	-6.896	1.713
-3.3	-9.241	2.037
-3.2	-10.996	2.371
-3.1	-13.228	2.716
-3	-14.693	3.072
-2.9	-10.627	3.440
-2.8	-7.220	3.821
-2.7	-6.089	4.216
-2.6	-6.934	4.626
-2.5	-8.426	5.051
-2.4	-7.475	5.495
-2.3	-5.865	5.957
-2.2	-6.600	6.439
-2.1	-12.698	6.945
-2	-13.179	7.474
-1.9	-3.195	8.031

-1.8	0.801	8.618
-1.7	2.294	9.239
-1.6	2.033	9.897
-1.5	0.377	10.598
-1.4	-1.807	
-1.3	-1.926	
-1.2	1.266	
-1.1	5.190	
-1	8.199	
-0.9	9.644	
-0.8	8.715	
-0.7	1.937	
-0.6	6.351	
-0.5	16.364	
-0.4	21.715	
-0.3	25.148	
-0.2	27.359	
-0.1	28.617	
-1.00044E-11	29.030	
0.1	28.614	
0.2	27.300	
0.3	24.886	
0.4	20.844	
0.5	13.282	
0.6	0.258	
0.7	13.501	
0.8	16.642	
0.9	17.230	
1	16.387	
1.1	14.527	
1.2	11.936	
1.3	8.995	
1.4	6.298	
1.5	4.420	10.598
1.6	3.193	9.897
1.7	1.618	9.239
1.8	-1.681	8.618
1.9	-9.565	8.031
2	-7.397	7.474
2.1	-0.647	6.945
2.2	1.995	6.439

2.3	2.485	5.957
2.4	1.341	5.495
2.5	-1.286	5.051
2.6	-5.062	4.626
2.7	-8.394	4.216
2.8	-10.088	3.821
2.9	-12.421	3.440
3	-15.927	3.072
3.1	-14.983	2.716
3.2	-11.952	2.371
3.3	-9.633	2.037
3.4	-7.295	1.713
3.5	-5.305	1.398
3.6	-4.418	1.092
3.7	-5.101	0.795
3.8	-7.733	0.505
3.9	-10.846	0.223
4	-8.048	-0.051
4.1	-4.734	-0.320
4.2	-3.445	-0.581
4.3	-3.992	-0.837
4.4	-6.337	-1.086
4.5	-10.007	-1.330
4.6	-10.743	-1.569
4.7	-8.424	-1.802
4.8	-7.355	-2.031
4.9	-7.908	-2.255
5	-9.623	-2.474
5.1	-11.324	-2.689
5.2	-11.724	-2.900
5.3	-11.747	-3.107
5.4	-12.769	-3.310
5.5	-15.442	-3.509
5.6	-20.502	-3.705
5.7	-29.654	-3.897
5.8	-29.308	-4.086
5.9	-24.835	-4.271
6	-22.300	-4.454
6.1	-20.133	-4.633
6.2	-18.680	-4.810
6.3	-18.383	-4.984

6.4	-19.508	-5.154
6.5	-22.198	-5.323
6.6	-24.033	-5.489
6.7	-20.713	-5.652
6.8	-17.420	-5.813
6.9	-15.767	-5.971
7	-15.611	-6.127
7.1	-16.911	-6.000
7.2	-19.821	-6.000
7.3	-24.568	-6.000
7.4	-29.583	-6.000
7.5	-30.024	-6.000
7.6	-28.948	-6.000
7.7	-26.660	-6.000
7.8	-24.226	-6.000
7.9	-23.469	-6.000
8	-25.077	-6.000
8.1	-27.569	-6.000
8.2	-23.529	-6.000
8.3	-19.236	-6.000
8.4	-17.095	-6.000
8.5	-16.709	-6.000
8.6	-17.869	-6.000
8.7	-20.428	-6.000
8.8	-23.525	-6.000
8.9	-25.023	-6.000
9	-25.833	-6.000
9.1	-28.597	-6.000
9.2	-31.277	-6.000
9.3	-26.909	-6.212
9.4	-23.988	-6.328
9.5	-23.817	-6.443
9.6	-26.241	-6.557
9.7	-28.518	-6.669
9.8	-24.611	-6.781
9.9	-21.397	-6.891
10	-20.292	-7.000

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



-18.37 dBW/4kHz Input power spectral density @ f=14.5GHz

▪ **FCC EIRP spectral density regulation**

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

*The v240MT's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -18.37 dBW/ 4kHz*

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

F=14.5GHz, -18.37 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
-10	-15.649	-7.000
-9.9	-17.523	-6.891
-9.8	-20.559	-6.781
-9.7	-22.304	-6.669
-9.6	-21.124	-6.557
-9.5	-19.807	-6.443
-9.4	-18.428	-6.328
-9.3	-16.784	-6.212
-9.2	-15.562	-6.000
-9.1	-15.129	-6.000
-9	-15.429	-6.000
-8.9	-16.494	-6.000
-8.8	-18.387	-6.000
-8.7	-20.810	-6.000
-8.6	-23.638	-6.000
-8.5	-26.277	-6.000
-8.4	-25.070	-6.000
-8.3	-23.681	-6.000
-8.2	-25.830	-6.000
-8.1	-34.943	-6.000
-8	-26.230	-6.000
-7.9	-20.187	-6.000
-7.8	-18.180	-6.000
-7.7	-18.562	-6.000
-7.6	-21.392	-6.000
-7.5	-25.152	-6.000
-7.4	-19.971	-6.000
-7.3	-16.011	-6.000
-7.2	-14.620	-6.000
-7.1	-14.831	-6.000
-7	-15.958	-6.127
-6.9	-17.688	-5.971
-6.8	-19.419	-5.813
-6.7	-20.525	-5.652
-6.6	-21.306	-5.489
-6.5	-22.603	-5.323
-6.4	-25.097	-5.154
-6.3	-29.040	-4.984
-6.2	-29.359	-4.810
-6.1	-25.524	-4.633
-6	-23.392	-4.454

-5.9	-23.125	-4.271
-5.8	-23.852	-4.086
-5.7	-22.425	-3.897
-5.6	-20.176	-3.705
-5.5	-19.917	-3.509
-5.4	-21.463	-3.310
-5.3	-24.609	-3.107
-5.2	-25.228	-2.900
-5.1	-22.055	-2.689
-5	-18.437	-2.474
-4.9	-15.673	-2.255
-4.8	-14.090	-2.031
-4.7	-13.942	-1.802
-4.6	-14.989	-1.569
-4.5	-13.768	-1.330
-4.4	-9.947	-1.086
-4.3	-7.006	-0.837
-4.2	-5.854	-0.581
-4.1	-6.394	-0.320
-4	-8.742	-0.051
-3.9	-12.895	0.223
-3.8	-13.288	0.505
-3.7	-10.722	0.795
-3.6	-10.638	1.092
-3.5	-14.442	1.398
-3.4	-17.726	1.713
-3.3	-11.012	2.037
-3.2	-8.196	2.371
-3.1	-8.101	2.716
-3	-9.758	3.072
-2.9	-11.476	3.440
-2.8	-10.379	3.821
-2.7	-8.906	4.216
-2.6	-8.919	4.626
-2.5	-8.412	5.051
-2.4	-4.843	5.495
-2.3	-1.921	5.957
-2.2	-0.944	6.439
-2.1	-1.301	6.945
-2	-2.214	7.474
-1.9	-1.655	8.031

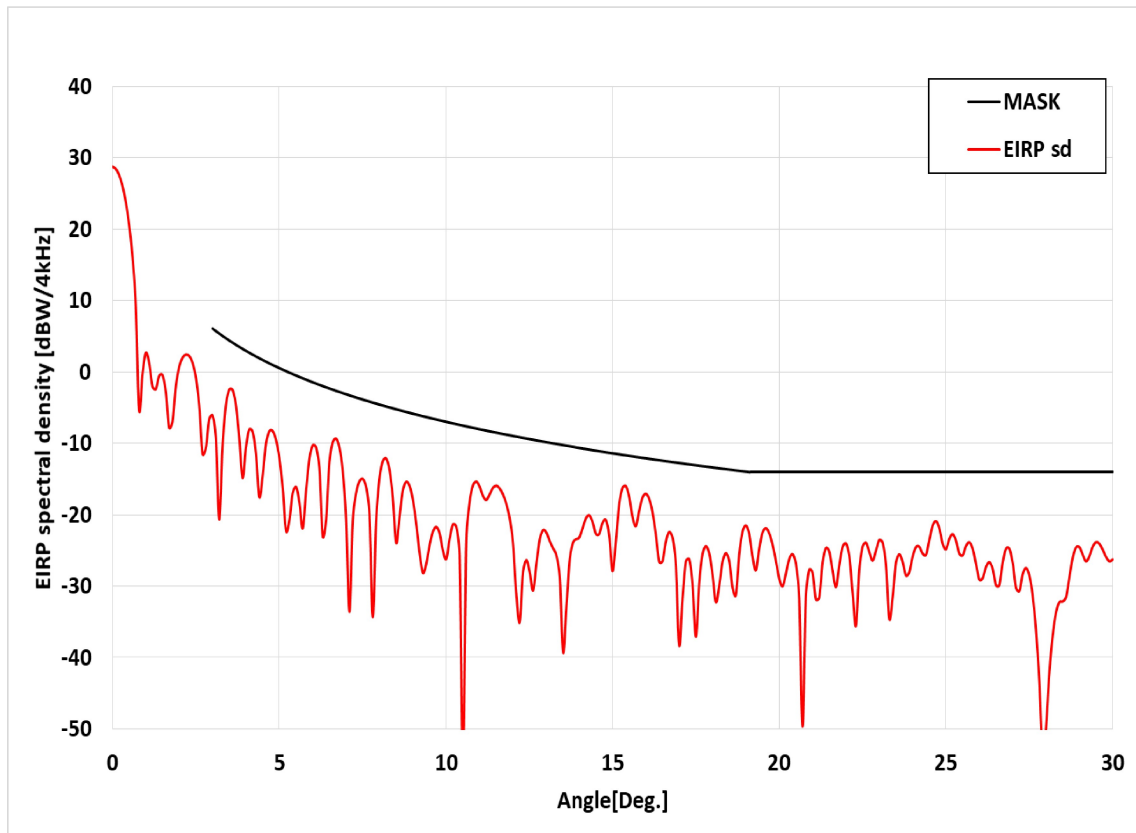
-1.8	0.676	8.618
-1.7	3.279	9.239
-1.6	5.792	9.897
-1.5	8.119	10.598
-1.4	9.919	
-1.3	10.895	
-1.2	10.610	
-1.1	9.342	
-1	7.138	
-0.9	5.292	
-0.8	6.920	
-0.7	11.189	
-0.6	15.928	
-0.5	20.186	
-0.4	23.533	
-0.3	26.012	
-0.2	27.614	
-0.1	28.613	
-1.00044E-11	29.030	
0.1	28.552	
0.2	27.410	
0.3	25.619	
0.4	22.951	
0.5	19.225	
0.6	14.487	
0.7	10.108	
0.8	8.648	
0.9	8.115	
1	6.731	
1.1	4.329	
1.2	1.769	
1.3	-0.055	
1.4	-0.676	
1.5	-0.935	10.598
1.6	-1.583	9.897
1.7	-3.848	9.239
1.8	-11.003	8.618
1.9	-12.018	8.031
2	-2.915	7.474
2.1	0.739	6.945
2.2	2.382	6.439

2.3	2.792	5.957
2.4	2.142	5.495
2.5	1.387	5.051
2.6	1.298	4.626
2.7	1.596	4.216
2.8	1.521	3.821
2.9	0.853	3.440
3	-0.571	3.072
3.1	-2.867	2.716
3.2	-5.871	2.371
3.3	-9.239	2.037
3.4	-11.506	1.713
3.5	-11.488	1.398
3.6	-9.766	1.092
3.7	-7.562	0.795
3.8	-5.587	0.505
3.9	-4.118	0.223
4	-3.395	-0.051
4.1	-3.767	-0.320
4.2	-5.191	-0.581
4.3	-8.059	-0.837
4.4	-13.589	-1.086
4.5	-25.997	-1.330
4.6	-19.976	-1.569
4.7	-17.404	-1.802
4.8	-21.089	-2.031
4.9	-25.352	-2.255
5	-15.893	-2.474
5.1	-11.907	-2.689
5.2	-10.409	-2.900
5.3	-10.627	-3.107
5.4	-12.609	-3.310
5.5	-15.556	-3.509
5.6	-17.416	-3.705
5.7	-16.819	-3.897
5.8	-16.325	-4.086
5.9	-16.552	-4.271
6	-17.335	-4.454
6.1	-17.980	-4.633
6.2	-18.301	-4.810
6.3	-18.053	-4.984



6.4	-18.155	-5.154
6.5	-18.357	-5.323
6.6	-19.288	-5.489
6.7	-20.253	-5.652
6.8	-18.138	-5.813
6.9	-14.746	-5.971
7	-12.407	-6.127
7.1	-11.522	-6.000
7.2	-11.946	-6.000
7.3	-13.844	-6.000
7.4	-17.562	-6.000
7.5	-21.996	-6.000
7.6	-20.719	-6.000
7.7	-18.341	-6.000
7.8	-17.538	-6.000
7.9	-18.004	-6.000
8	-19.495	-6.000
8.1	-21.207	-6.000
8.2	-22.472	-6.000
8.3	-21.819	-6.000
8.4	-19.748	-6.000
8.5	-18.202	-6.000
8.6	-17.836	-6.000
8.7	-19.315	-6.000
8.8	-23.374	-6.000
8.9	-28.588	-6.000
9	-23.917	-6.000
9.1	-20.700	-6.000
9.2	-20.112	-6.000
9.3	-21.897	-6.212
9.4	-25.526	-6.328
9.5	-22.637	-6.443
9.6	-18.123	-6.557
9.7	-15.726	-6.669
9.8	-14.991	-6.781
9.9	-15.423	-6.891
10	-17.088	-7.000

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



-18.37 dBW/4kHz Input power spectral density @ f=13.75GHz

- **FCC EIRP spectral density regulation**

18-25log( $\theta$ )	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's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -18.37 dBW/ 4kHz*

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

F=13.75GHz, -18.37 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
0	28.730	
0.1	28.449	
0.2	27.585	
0.3	26.084	
0.4	23.844	
0.5	20.677	
0.6	16.185	
0.7	9.302	
0.8	-5.328	
0.9	-0.360	
1	2.660	
1.1	1.283	
1.2	-2.027	
1.3	-2.424	
1.4	-0.571	
1.5	-0.458	
1.6	-2.786	
1.7	-7.817	
1.8	-6.991	
1.9	-2.022	
2	0.683	
2.1	1.970	
2.2	2.414	
2.3	2.215	
2.4	1.271	
2.5	-0.780	
2.6	-4.681	
2.7	-11.474	
2.8	-10.673	
2.9	-6.617	
3	-6.098	6.072
3.1	-9.189	5.716
3.2	-20.671	5.371
3.3	-10.447	5.037
3.4	-4.615	4.713
3.5	-2.493	4.398
3.6	-2.543	4.092
3.7	-4.620	3.795
3.8	-9.320	3.505
3.9	-14.861	3.223
4	-10.583	2.949

4.1	-8.041	2.680
4.2	-8.367	2.419
4.3	-11.473	2.163
4.4	-17.527	1.914
4.5	-14.559	1.670
4.6	-10.089	1.431
4.7	-8.321	1.198
4.8	-8.278	0.969
4.9	-9.539	0.745
5	-12.052	0.526
5.1	-16.216	0.311
5.2	-22.276	0.100
5.3	-20.795	-0.107
5.4	-16.960	-0.310
5.5	-16.117	-0.509
5.6	-18.280	-0.705
5.7	-21.911	-0.897
5.8	-16.670	-1.086
5.9	-12.172	-1.271
6	-10.286	-1.454
6.1	-10.577	-1.633
6.2	-13.499	-1.810
6.3	-22.993	-1.984
6.4	-20.758	-2.154
6.5	-12.635	-2.323
6.6	-9.837	-2.489
6.7	-9.340	-2.652
6.8	-10.635	-2.813
6.9	-13.939	-2.971
7	-20.785	-3.127
7.1	-33.587	-3.281
7.2	-20.800	-3.433
7.3	-16.946	-3.583
7.4	-15.327	-3.731
7.5	-14.980	-3.877
7.6	-16.114	-4.020
7.7	-19.965	-4.162
7.8	-34.321	-4.302
7.9	-20.949	-4.441
8	-14.868	-4.577
8.1	-12.453	-4.712

8.2	-12.135	-4.845
8.3	-13.720	-4.977
8.4	-17.722	-5.107
8.5	-23.953	-5.235
8.6	-20.360	-5.362
8.7	-16.576	-5.488
8.8	-15.381	-5.612
8.9	-15.944	-5.735
9	-17.942	-5.856
9.1	-21.242	-5.976
9.2	-25.419	-6.095
9.3	-28.140	-6.212
9.4	-26.841	-6.328
9.5	-24.267	-6.443
9.6	-22.365	-6.557
9.7	-21.710	-6.669
9.8	-22.602	-6.781
9.9	-25.040	-6.891
10	-26.186	-7.000
10.1	-23.376	-7.108
10.2	-21.350	-7.215
10.3	-21.677	-7.321
10.4	-25.670	-7.426
10.5	-54.720	-7.530
10.6	-23.723	-7.633
10.7	-18.199	-7.735
10.8	-15.885	-7.836
10.9	-15.357	-7.936
11	-16.090	-8.035
11.1	-17.396	-8.133
11.2	-17.918	-8.230
11.3	-17.139	-8.327
11.4	-16.236	-8.423
11.5	-15.947	-8.517
11.6	-16.320	-8.611
11.7	-17.201	-8.705
11.8	-18.524	-8.797
11.9	-20.556	-8.889
12	-24.098	-8.980
12.1	-31.269	-9.070
12.2	-35.058	-9.159

12.3	-28.007	-9.248
12.4	-26.361	-9.336
12.5	-28.051	-9.423
12.6	-30.618	-9.509
12.7	-26.909	-9.595
12.8	-23.423	-9.680
12.9	-22.156	-9.765
13	-22.541	-9.849
13.1	-23.736	-9.932
13.2	-24.709	-10.014
13.3	-25.756	-10.096
13.4	-28.819	-10.178
13.5	-39.326	-10.258
13.6	-32.769	-10.338
13.7	-26.129	-10.418
13.8	-23.862	-10.497
13.9	-23.440	-10.575
14	-23.208	-10.653
14.1	-21.947	-10.730
14.2	-20.529	-10.807
14.3	-20.091	-10.883
14.4	-20.986	-10.959
14.5	-22.649	-11.034
14.6	-22.707	-11.109
14.7	-21.156	-11.183
14.8	-20.734	-11.257
14.9	-22.824	-11.330
15	-27.895	-11.402
15.1	-23.809	-11.474
15.2	-18.569	-11.546
15.3	-16.259	-11.617
15.4	-16.001	-11.688
15.5	-17.490	-11.758
15.6	-20.327	-11.828
15.7	-21.596	-11.897
15.8	-19.445	-11.966
15.9	-17.607	-12.035
16	-17.084	-12.103
16.1	-17.785	-12.171
16.2	-19.656	-12.238
16.3	-22.786	-12.305

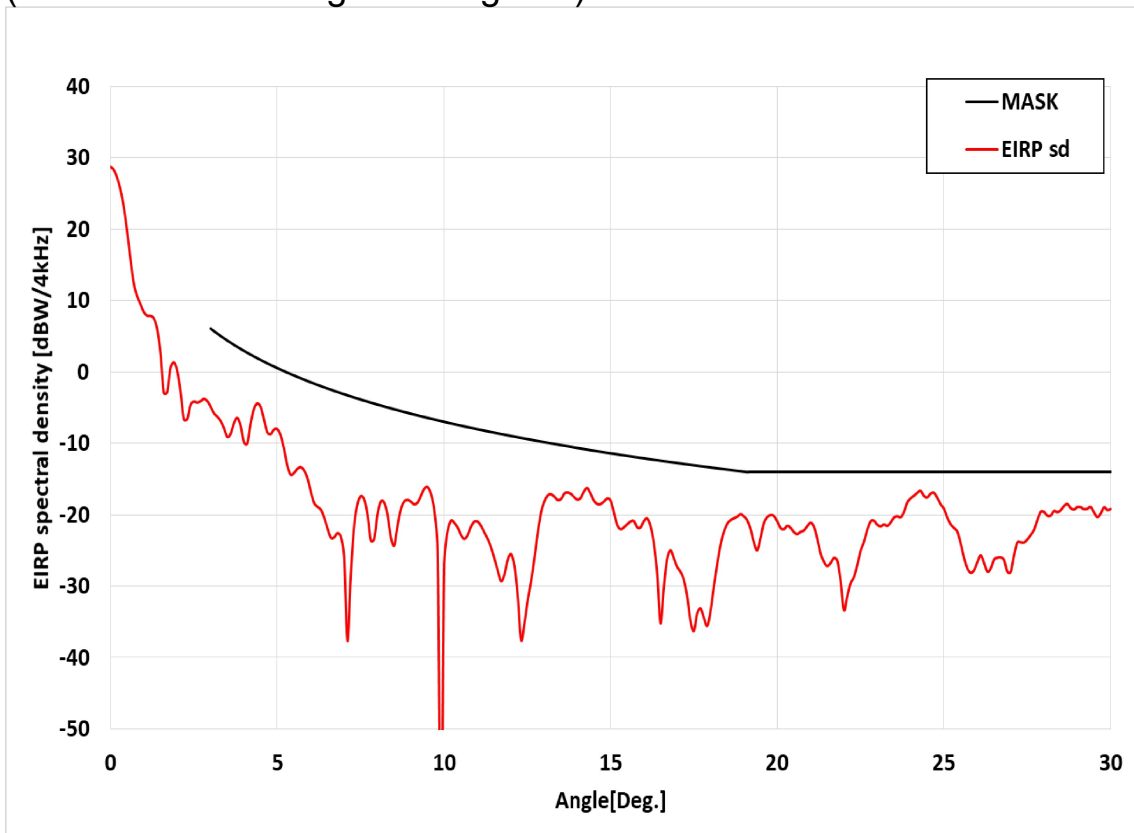
16.4	-26.599	-12.371
16.5	-26.538	-12.437
16.6	-23.744	-12.503
16.7	-22.412	-12.568
16.8	-23.186	-12.633
16.9	-26.896	-12.697
17	-38.289	-12.761
17.1	-31.656	-12.825
17.2	-26.555	-12.888
17.3	-26.228	-12.951
17.4	-29.766	-13.014
17.5	-37.064	-13.076
17.6	-29.623	-13.138
17.7	-25.490	-13.199
17.8	-24.389	-13.261
17.9	-25.397	-13.321
18	-28.445	-13.382
18.1	-32.264	-13.442
18.2	-29.927	-13.502
18.3	-26.591	-13.561
18.4	-25.399	-13.620
18.5	-26.450	-13.679
18.6	-30.227	-13.738
18.7	-31.253	-13.796
18.8	-25.545	-13.854
18.9	-22.352	-13.912
19	-21.505	-13.969
19.1	-22.721	-14.026
19.2	-25.926	-14.000
19.3	-27.790	-14.000
19.4	-24.741	-14.000
19.5	-22.475	-14.000
19.6	-21.899	-14.000
19.7	-22.606	-14.000
19.8	-24.225	-14.000
19.9	-26.466	-14.000
20	-28.950	-14.000
20.1	-30.015	-14.000
20.2	-28.263	-14.000
20.3	-26.218	-14.000
20.4	-25.523	-14.000

20.5	-26.857	-14.000
20.6	-31.762	-14.000
20.7	-49.647	-14.000
20.8	-31.424	-14.000
20.9	-27.717	-14.000
21	-28.120	-14.000
21.1	-31.857	-14.000
21.2	-31.600	-14.000
21.3	-26.703	-14.000
21.4	-24.660	-14.000
21.5	-25.149	-14.000
21.6	-27.921	-14.000
21.7	-30.112	-14.000
21.8	-27.050	-14.000
21.9	-24.506	-14.000
22	-24.031	-14.000
22.1	-25.775	-14.000
22.2	-30.974	-14.000
22.3	-35.583	-14.000
22.4	-27.756	-14.000
22.5	-24.465	-14.000
22.6	-23.929	-14.000
22.7	-25.222	-14.000
22.8	-26.416	-14.000
22.9	-25.024	-14.000
23	-23.550	-14.000
23.1	-23.924	-14.000
23.2	-27.030	-14.000
23.3	-34.585	-14.000
23.4	-31.607	-14.000
23.5	-26.707	-14.000
23.6	-25.545	-14.000
23.7	-26.625	-14.000
23.8	-28.528	-14.000
23.9	-28.047	-14.000
24	-25.881	-14.000
24.1	-24.528	-14.000
24.2	-24.491	-14.000
24.3	-25.441	-14.000
24.4	-25.622	-14.000
24.5	-23.555	-14.000

24.6	-21.532	-14.000
24.7	-20.900	-14.000
24.8	-21.900	-14.000
24.9	-24.039	-14.000
25	-24.834	-14.000
25.1	-23.416	-14.000
25.2	-22.726	-14.000
25.3	-23.638	-14.000
25.4	-25.452	-14.000
25.5	-25.685	-14.000
25.6	-24.385	-14.000
25.7	-23.871	-14.000
25.8	-24.777	-14.000
25.9	-26.919	-14.000
26	-29.077	-14.000
26.1	-28.871	-14.000
26.2	-27.333	-14.000
26.3	-26.668	-14.000
26.4	-27.572	-14.000
26.5	-29.879	-14.000
26.6	-29.861	-14.000
26.7	-26.704	-14.000
26.8	-24.753	-14.000
26.9	-24.766	-14.000
27	-26.765	-14.000
27.1	-30.242	-14.000
27.2	-30.697	-14.000
27.3	-28.336	-14.000
27.4	-27.474	-14.000
27.5	-28.496	-14.000
27.6	-31.347	-14.000
27.7	-36.200	-14.000
27.8	-43.553	-14.000
27.9	-53.846	-14.000
28	-49.813	-14.000
28.1	-42.117	-14.000
28.2	-36.904	-14.000
28.3	-33.699	-14.000
28.4	-32.261	-14.000
28.5	-32.158	-14.000
28.6	-31.543	-14.000

28.7	-28.803	-14.000
28.8	-26.046	-14.000
28.9	-24.590	-14.000
29	-24.551	-14.000
29.1	-25.611	-14.000
29.2	-26.539	-14.000
29.3	-25.810	-14.000
29.4	-24.490	-14.000
29.5	-23.848	-14.000
29.6	-24.075	-14.000
29.7	-24.911	-14.000
29.8	-25.921	-14.000
29.9	-26.528	-14.000
30	-26.273	-14.000

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



-18.37 dBW/4kHz Input power spectral density @ f=13.75GHz

▪ **FCC EIRP spectral density regulation**

18-25log( $\theta$ )	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's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -18.37 dBW/ 4kHz*

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

F=13.75GHz, -18.37 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
0	28.730	
0.1	28.302	
0.2	27.225	
0.3	25.554	
0.4	23.123	
0.5	19.780	
0.6	15.836	
0.7	12.421	
0.8	10.606	
0.9	9.480	
1	8.385	
1.1	7.863	
1.2	7.840	
1.3	7.484	
1.4	6.043	
1.5	2.624	
1.6	-2.936	
1.7	-2.848	
1.8	0.563	
1.9	1.324	
2	0.193	
2.1	-2.787	
2.2	-6.641	
2.3	-6.609	
2.4	-4.634	
2.5	-4.151	
2.6	-4.295	
2.7	-4.105	
2.8	-3.778	
2.9	-4.055	
3	-4.877	6.072
3.1	-5.769	5.716
3.2	-6.284	5.371
3.3	-6.850	5.037
3.4	-7.882	4.713
3.5	-9.095	4.398
3.6	-8.685	4.092
3.7	-7.197	3.795
3.8	-6.448	3.505
3.9	-7.536	3.223
4	-9.844	2.949

4.1	-10.052	2.680
4.2	-7.246	2.419
4.3	-5.172	2.163
4.4	-4.424	1.914
4.5	-4.898	1.670
4.6	-6.660	1.431
4.7	-8.450	1.198
4.8	-8.712	0.969
4.9	-8.067	0.745
5	-8.027	0.526
5.1	-8.919	0.311
5.2	-10.761	0.100
5.3	-13.147	-0.107
5.4	-14.401	-0.310
5.5	-14.133	-0.509
5.6	-13.573	-0.705
5.7	-13.356	-0.897
5.8	-13.778	-1.086
5.9	-14.866	-1.271
6	-16.728	-1.454
6.1	-18.336	-1.633
6.2	-18.896	-1.810
6.3	-19.276	-1.984
6.4	-20.355	-2.154
6.5	-21.869	-2.323
6.6	-23.202	-2.489
6.7	-23.196	-2.652
6.8	-22.578	-2.813
6.9	-23.044	-2.971
7	-25.852	-3.127
7.1	-37.680	-3.281
7.2	-28.450	-3.433
7.3	-21.588	-3.583
7.4	-18.517	-3.731
7.5	-17.392	-3.877
7.6	-17.829	-4.020
7.7	-19.943	-4.162
7.8	-23.607	-4.302
7.9	-23.415	-4.441
8	-19.953	-4.577
8.1	-18.137	-4.712



8.2	-18.299	-4.845
8.3	-20.014	-4.977
8.4	-23.169	-5.107
8.5	-24.310	-5.235
8.6	-21.551	-5.362
8.7	-19.229	-5.488
8.8	-18.176	-5.612
8.9	-17.933	-5.735
9	-18.182	-5.856
9.1	-18.543	-5.976
9.2	-18.293	-6.095
9.3	-17.339	-6.212
9.4	-16.367	-6.328
9.5	-16.133	-6.443
9.6	-17.082	-6.557
9.7	-19.381	-6.669
9.8	-25.031	-6.781
9.9	-67.353	-6.891
10	-26.817	-7.000
10.1	-22.318	-7.108
10.2	-20.844	-7.215
10.3	-21.134	-7.321
10.4	-21.789	-7.426
10.5	-22.845	-7.530
10.6	-23.372	-7.633
10.7	-22.843	-7.735
10.8	-21.671	-7.836
10.9	-20.971	-7.936
11	-20.969	-8.035
11.1	-21.567	-8.133
11.2	-22.477	-8.230
11.3	-23.390	-8.327
11.4	-24.561	-8.423
11.5	-26.113	-8.517
11.6	-27.793	-8.611
11.7	-29.291	-8.705
11.8	-28.401	-8.797
11.9	-26.342	-8.889
12	-25.519	-8.980
12.1	-27.111	-9.070
12.2	-31.392	-9.159

12.3	-37.520	-9.248
12.4	-35.251	-9.336
12.5	-31.968	-9.423
12.6	-29.319	-9.509
12.7	-26.145	-9.595
12.8	-22.540	-9.680
12.9	-19.678	-9.765
13	-18.103	-9.849
13.1	-17.293	-9.932
13.2	-17.153	-10.014
13.3	-17.491	-10.096
13.4	-17.954	-10.178
13.5	-17.786	-10.258
13.6	-17.026	-10.338
13.7	-16.891	-10.418
13.8	-17.110	-10.497
13.9	-17.518	-10.575
14	-17.867	-10.653
14.1	-17.687	-10.730
14.2	-16.782	-10.807
14.3	-16.263	-10.883
14.4	-17.039	-10.959
14.5	-18.028	-11.034
14.6	-18.495	-11.109
14.7	-18.514	-11.183
14.8	-18.170	-11.257
14.9	-17.755	-11.330
15	-17.980	-11.402
15.1	-19.636	-11.474
15.2	-21.407	-11.546
15.3	-22.024	-11.617
15.4	-21.767	-11.688
15.5	-21.348	-11.758
15.6	-20.949	-11.828
15.7	-20.900	-11.897
15.8	-21.749	-11.966
15.9	-21.790	-12.035
16	-20.896	-12.103
16.1	-20.521	-12.171
16.2	-21.595	-12.238
16.3	-23.988	-12.305

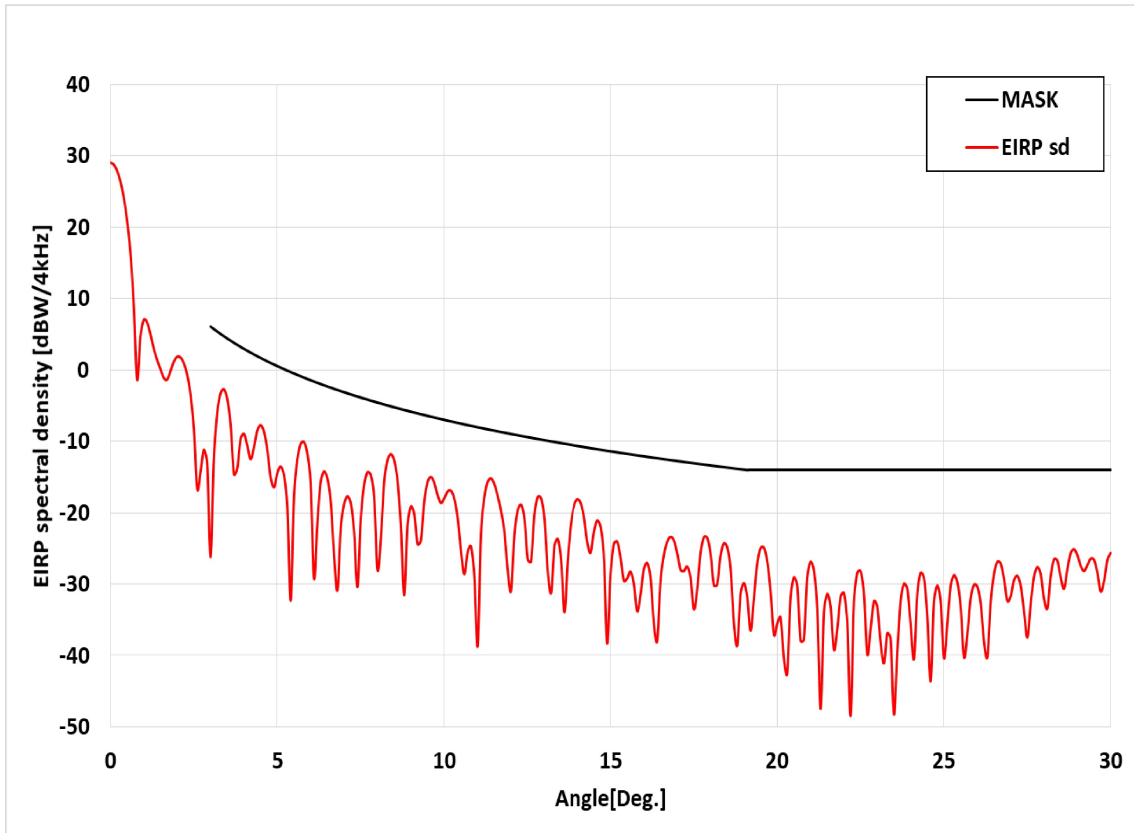
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16.9	-26.123	-12.697
17	-27.307	-12.761
17.1	-28.027	-12.825
17.2	-29.151	-12.888
17.3	-31.489	-12.951
17.4	-34.951	-13.014
17.5	-36.283	-13.076
17.6	-33.791	-13.138
17.7	-33.136	-13.199
17.8	-34.435	-13.261
17.9	-35.563	-13.321
18	-33.464	-13.382
18.1	-30.013	-13.442
18.2	-26.868	-13.502
18.3	-24.196	-13.561
18.4	-22.389	-13.620
18.5	-21.279	-13.679
18.6	-20.763	-13.738
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18.8	-20.273	-13.854
18.9	-19.922	-13.912
19	-20.229	-13.969
19.1	-20.786	-14.026
19.2	-22.023	-14.000
19.3	-23.876	-14.000
19.4	-24.979	-14.000
19.5	-23.226	-14.000
19.6	-21.158	-14.000
19.7	-20.334	-14.000
19.8	-20.056	-14.000
19.9	-20.186	-14.000
20	-20.914	-14.000
20.1	-21.864	-14.000
20.2	-22.039	-14.000
20.3	-21.562	-14.000
20.4	-21.825	-14.000

20.5	-22.442	-14.000
20.6	-22.714	-14.000
20.7	-22.396	-14.000
20.8	-22.203	-14.000
20.9	-21.600	-14.000
21	-21.121	-14.000
21.1	-21.652	-14.000
21.2	-23.376	-14.000
21.3	-25.428	-14.000
21.4	-26.594	-14.000
21.5	-27.198	-14.000
21.6	-26.752	-14.000
21.7	-26.064	-14.000
21.8	-26.440	-14.000
21.9	-29.285	-14.000
22	-33.385	-14.000
22.1	-31.407	-14.000
22.2	-29.610	-14.000
22.3	-28.729	-14.000
22.4	-27.060	-14.000
22.5	-25.071	-14.000
22.6	-23.799	-14.000
22.7	-22.127	-14.000
22.8	-20.930	-14.000
22.9	-20.845	-14.000
23	-21.403	-14.000
23.1	-21.627	-14.000
23.2	-21.373	-14.000
23.3	-21.546	-14.000
23.4	-21.106	-14.000
23.5	-20.393	-14.000
23.6	-20.215	-14.000
23.7	-20.353	-14.000
23.8	-19.633	-14.000
23.9	-18.286	-14.000
24	-17.713	-14.000
24.1	-17.349	-14.000
24.2	-16.929	-14.000
24.3	-16.667	-14.000
24.4	-17.385	-14.000
24.5	-17.571	-14.000

24.6	-17.044	-14.000
24.7	-16.934	-14.000
24.8	-17.655	-14.000
24.9	-18.531	-14.000
25	-19.187	-14.000
25.1	-20.404	-14.000
25.2	-21.346	-14.000
25.3	-21.847	-14.000
25.4	-22.389	-14.000
25.5	-24.040	-14.000
25.6	-26.038	-14.000
25.7	-27.528	-14.000
25.8	-28.125	-14.000
25.9	-27.786	-14.000
26	-26.654	-14.000
26.1	-25.694	-14.000
26.2	-26.740	-14.000
26.3	-27.963	-14.000
26.4	-27.551	-14.000
26.5	-26.282	-14.000
26.6	-26.031	-14.000
26.7	-25.976	-14.000
26.8	-26.345	-14.000
26.9	-27.981	-14.000
27	-28.016	-14.000
27.1	-25.682	-14.000
27.2	-23.893	-14.000
27.3	-23.870	-14.000
27.4	-23.901	-14.000
27.5	-23.468	-14.000
27.6	-22.832	-14.000
27.7	-22.131	-14.000
27.8	-20.735	-14.000
27.9	-19.612	-14.000
28	-19.633	-14.000
28.1	-20.130	-14.000
28.2	-20.121	-14.000
28.3	-19.486	-14.000
28.4	-19.641	-14.000
28.5	-19.387	-14.000
28.6	-18.793	-14.000

28.7	-18.484	-14.000
28.8	-19.080	-14.000
28.9	-19.282	-14.000
29	-18.935	-14.000
29.1	-18.959	-14.000
29.2	-19.243	-14.000
29.3	-19.161	-14.000
29.4	-18.925	-14.000
29.5	-19.707	-14.000
29.6	-20.336	-14.000
29.7	-19.820	-14.000
29.8	-18.969	-14.000
29.9	-19.365	-14.000
30	-19.202	-14.000

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



-18.37 dBW/4kHz Input power spectral density @ f=14.5GHz

▪ **FCC EIRP spectral density regulation**

18-25log( $\theta$ )	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's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -18.37 dBW/ 4kHz*

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

F=14.5GHz, -18.37 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
0	29.030	
0.1	28.752	
0.2	27.897	
0.3	26.402	
0.4	24.158	
0.5	20.955	
0.6	16.350	
0.7	9.140	
0.8	-1.353	
0.9	4.707	
1	6.991	
1.1	6.642	
1.2	4.976	
1.3	2.963	
1.4	1.382	
1.5	0.098	
1.6	-1.116	
1.7	-1.344	
1.8	-0.160	
1.9	1.161	
2	1.830	
2.1	1.736	
2.2	0.916	
2.3	-0.701	
2.4	-3.458	
2.5	-8.257	
2.6	-16.663	
2.7	-14.259	
2.8	-11.163	
2.9	-13.012	
3	-26.189	6.072
3.1	-12.482	5.716
3.2	-5.977	5.371
3.3	-3.274	5.037
3.4	-2.710	4.713
3.5	-4.031	4.398
3.6	-7.656	4.092
3.7	-14.558	3.795
3.8	-13.796	3.505
3.9	-9.681	3.223
4	-8.951	2.949

4.1	-10.568	2.680
4.2	-12.494	2.419
4.3	-10.822	2.163
4.4	-8.509	1.914
4.5	-7.743	1.670
4.6	-8.641	1.431
4.7	-11.211	1.198
4.8	-15.071	0.969
4.9	-16.438	0.745
5	-14.449	0.526
5.1	-13.547	0.311
5.2	-14.746	0.100
5.3	-19.310	-0.107
5.4	-32.329	-0.310
5.5	-17.688	-0.509
5.6	-12.491	-0.705
5.7	-10.348	-0.897
5.8	-10.116	-1.086
5.9	-11.741	-1.271
6	-16.080	-1.454
6.1	-29.217	-1.633
6.2	-21.345	-1.810
6.3	-15.637	-1.984
6.4	-14.227	-2.154
6.5	-15.195	-2.323
6.6	-18.524	-2.489
6.7	-25.962	-2.652
6.8	-30.862	-2.813
6.9	-22.119	-2.971
7	-18.771	-3.127
7.1	-17.704	-3.281
7.2	-18.655	-3.433
7.3	-22.718	-3.583
7.4	-30.416	-3.731
7.5	-20.860	-3.877
7.6	-16.095	-4.020
7.7	-14.324	-4.162
7.8	-14.722	-4.302
7.9	-17.758	-4.441
8	-27.980	-4.577
8.1	-23.606	-4.712

8.2	-15.685	-4.845
8.3	-12.649	-4.977
8.4	-11.794	-5.107
8.5	-12.665	-5.235
8.6	-15.516	-5.362
8.7	-21.859	-5.488
8.8	-31.550	-5.612
8.9	-21.716	-5.735
9	-19.138	-5.856
9.1	-20.143	-5.976
9.2	-24.397	-6.095
9.3	-23.902	-6.212
9.4	-18.425	-6.328
9.5	-15.690	-6.443
9.6	-15.001	-6.557
9.7	-15.828	-6.669
9.8	-17.555	-6.781
9.9	-18.634	-6.891
10	-17.976	-7.000
10.1	-17.036	-7.108
10.2	-16.939	-7.215
10.3	-18.039	-7.321
10.4	-20.683	-7.426
10.5	-25.398	-7.530
10.6	-28.595	-7.633
10.7	-25.495	-7.735
10.8	-24.737	-7.836
10.9	-28.898	-7.936
11	-38.686	-8.035
11.1	-22.876	-8.133
11.2	-17.854	-8.230
11.3	-15.678	-8.327
11.4	-15.210	-8.423
11.5	-15.995	-8.517
11.6	-17.648	-8.611
11.7	-19.790	-8.705
11.8	-22.663	-8.797
11.9	-28.045	-8.889
12	-30.951	-8.980
12.1	-23.182	-9.070
12.2	-19.641	-9.159

12.3	-18.880	-9.248
12.4	-20.746	-9.336
12.5	-26.532	-9.423
12.6	-26.808	-9.509
12.7	-20.295	-9.595
12.8	-17.806	-9.680
12.9	-17.981	-9.765
13	-20.835	-9.849
13.1	-28.323	-9.932
13.2	-31.210	-10.014
13.3	-24.594	-10.096
13.4	-23.681	-10.178
13.5	-26.709	-10.258
13.6	-33.914	-10.338
13.7	-26.721	-10.418
13.8	-21.517	-10.497
13.9	-19.031	-10.575
14	-18.131	-10.653
14.1	-18.586	-10.730
14.2	-20.556	-10.807
14.3	-24.114	-10.883
14.4	-25.618	-10.959
14.5	-22.706	-11.034
14.6	-21.096	-11.109
14.7	-21.909	-11.183
14.8	-26.011	-11.257
14.9	-38.277	-11.330
15	-28.789	-11.402
15.1	-24.399	-11.474
15.2	-24.017	-11.546
15.3	-26.256	-11.617
15.4	-29.516	-11.688
15.5	-29.202	-11.758
15.6	-28.265	-11.828
15.7	-29.922	-11.897
15.8	-33.793	-11.966
15.9	-31.511	-12.035
16	-27.891	-12.103
16.1	-27.043	-12.171
16.2	-29.019	-12.238
16.3	-35.453	-12.305

16.4	-37.965	-12.371
16.5	-29.621	-12.437
16.6	-25.951	-12.503
16.7	-24.094	-12.568
16.8	-23.389	-12.633
16.9	-23.869	-12.697
17	-25.673	-12.761
17.1	-27.982	-12.825
17.2	-28.182	-12.888
17.3	-27.555	-12.951
17.4	-29.056	-13.014
17.5	-33.523	-13.076
17.6	-30.695	-13.138
17.7	-25.608	-13.199
17.8	-23.453	-13.261
17.9	-23.528	-13.321
18	-25.765	-13.382
18.1	-30.145	-13.442
18.2	-30.019	-13.502
18.3	-26.010	-13.561
18.4	-24.286	-13.620
18.5	-24.820	-13.679
18.6	-27.854	-13.738
18.7	-35.416	-13.796
18.8	-38.597	-13.854
18.9	-31.384	-13.912
19	-29.866	-13.969
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19.2	-36.521	-14.000
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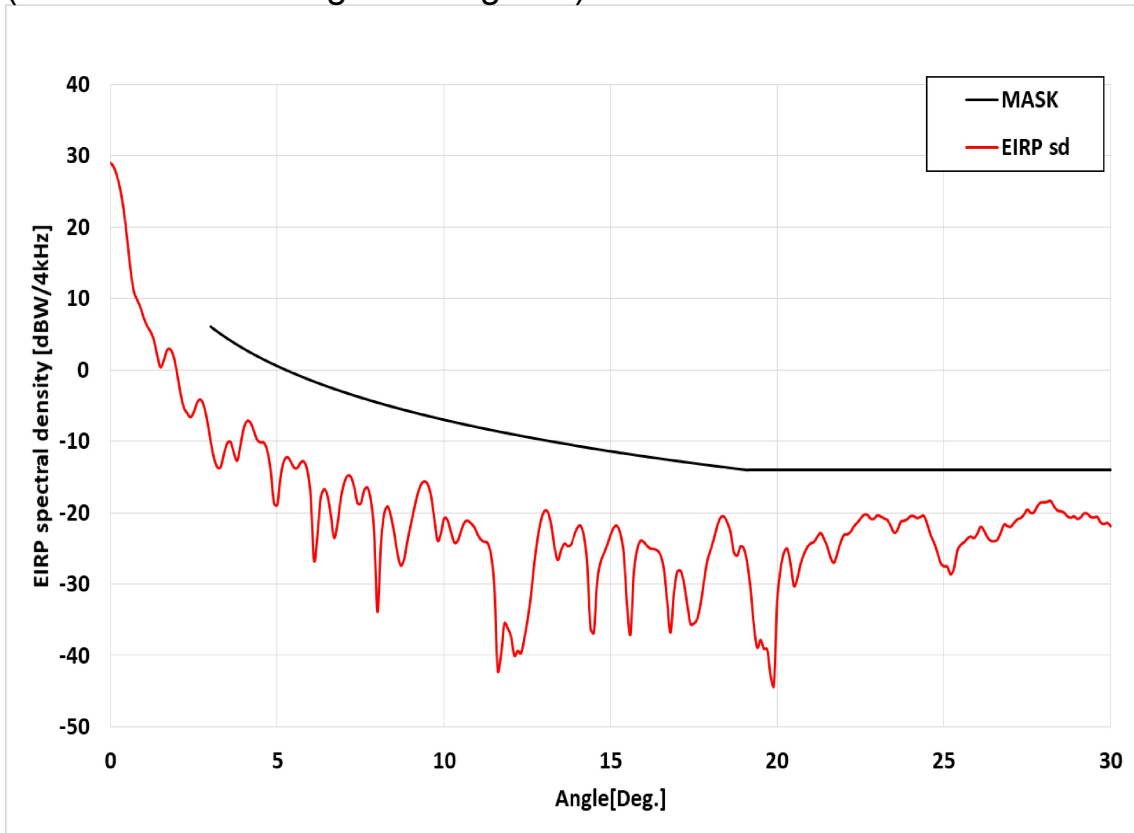
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21.6	-33.210	-14.000
21.7	-39.192	-14.000
21.8	-36.253	-14.000
21.9	-31.747	-14.000
22	-31.276	-14.000
22.1	-35.422	-14.000
22.2	-48.436	-14.000
22.3	-32.444	-14.000
22.4	-28.432	-14.000
22.5	-28.179	-14.000
22.6	-31.343	-14.000
22.7	-39.835	-14.000
22.8	-36.242	-14.000
22.9	-32.369	-14.000
23	-33.172	-14.000
23.1	-38.222	-14.000
23.2	-41.099	-14.000
23.3	-36.895	-14.000
23.4	-37.586	-14.000
23.5	-48.263	-14.000
23.6	-39.636	-14.000
23.7	-32.336	-14.000
23.8	-29.952	-14.000
23.9	-30.647	-14.000
24	-35.614	-14.000
24.1	-40.496	-14.000
24.2	-31.345	-14.000
24.3	-28.420	-14.000
24.4	-29.147	-14.000
24.5	-34.496	-14.000

24.6	-43.640	-14.000
24.7	-32.472	-14.000
24.8	-30.190	-14.000
24.9	-32.301	-14.000
25	-40.378	-14.000
25.1	-35.617	-14.000
25.2	-30.226	-14.000
25.3	-28.760	-14.000
25.4	-29.736	-14.000
25.5	-33.228	-14.000
25.6	-40.207	-14.000
25.7	-37.002	-14.000
25.8	-31.953	-14.000
25.9	-30.087	-14.000
26	-30.359	-14.000
26.1	-32.684	-14.000
26.2	-38.035	-14.000
26.3	-40.194	-14.000
26.4	-32.601	-14.000
26.5	-28.558	-14.000
26.6	-26.882	-14.000
26.7	-27.138	-14.000
26.8	-29.289	-14.000
26.9	-32.343	-14.000
27	-31.701	-14.000
27.1	-29.439	-14.000
27.2	-28.842	-14.000
27.3	-30.200	-14.000
27.4	-33.830	-14.000
27.5	-37.472	-14.000
27.6	-32.770	-14.000
27.7	-28.965	-14.000
27.8	-27.619	-14.000
27.9	-28.573	-14.000
28	-32.102	-14.000
28.1	-33.411	-14.000
28.2	-28.874	-14.000
28.3	-26.540	-14.000
28.4	-26.729	-14.000
28.5	-29.044	-14.000
28.6	-30.630	-14.000

28.7	-27.924	-14.000
28.8	-25.658	-14.000
28.9	-25.114	-14.000
29	-25.957	-14.000
29.1	-27.465	-14.000
29.2	-28.160	-14.000
29.3	-27.349	-14.000
29.4	-26.441	-14.000
29.5	-26.626	-14.000
29.6	-28.437	-14.000
29.7	-31.030	-14.000
29.8	-29.549	-14.000
29.9	-26.633	-14.000
30	-25.630	-14.000



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



-18.37 dBW/4kHz Input power spectral density @ f=14.5GHz

▪ **FCC EIRP spectral density regulation**

18-25log( $\theta$ )	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's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -18.37 dBW/ 4kHz*

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

F=14.5GHz, -18.37 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
0	29.030	
0.1	28.419	
0.2	27.131	
0.3	25.185	
0.4	22.350	
0.5	18.505	
0.6	14.122	
0.7	11.059	
0.8	9.814	
0.9	8.732	
1	7.269	
1.1	6.148	
1.2	5.370	
1.3	4.209	
1.4	2.088	
1.5	0.367	
1.6	1.334	
1.7	2.774	
1.8	2.865	
1.9	1.727	
2	-0.539	
2.1	-3.289	
2.2	-5.274	
2.3	-6.058	
2.4	-6.646	
2.5	-5.894	
2.6	-4.564	
2.7	-4.147	
2.8	-5.047	
2.9	-7.110	
3	-9.935	6.072
3.1	-12.287	5.716
3.2	-13.624	5.371
3.3	-13.629	5.037
3.4	-11.770	4.713
3.5	-10.289	4.398
3.6	-10.127	4.092
3.7	-11.619	3.795
3.8	-12.689	3.505
3.9	-10.494	3.223
4	-8.081	2.949

4.1	-7.156	2.680
4.2	-7.428	2.419
4.3	-8.618	2.163
4.4	-9.829	1.914
4.5	-10.147	1.670
4.6	-10.222	1.431
4.7	-11.324	1.198
4.8	-14.051	0.969
4.9	-18.680	0.745
5	-18.909	0.526
5.1	-14.863	0.311
5.2	-12.731	0.100
5.3	-12.215	-0.107
5.4	-12.821	-0.310
5.5	-13.686	-0.509
5.6	-13.713	-0.705
5.7	-12.985	-0.897
5.8	-12.866	-1.086
5.9	-14.109	-1.271
6	-17.805	-1.454
6.1	-26.662	-1.633
6.2	-23.215	-1.810
6.3	-17.925	-1.984
6.4	-16.706	-2.154
6.5	-17.565	-2.323
6.6	-20.264	-2.489
6.7	-23.510	-2.652
6.8	-21.594	-2.813
6.9	-18.084	-2.971
7	-15.865	-3.127
7.1	-14.850	-3.281
7.2	-14.964	-3.433
7.3	-16.371	-3.583
7.4	-18.632	-3.731
7.5	-18.698	-3.877
7.6	-16.902	-4.020
7.7	-16.490	-4.162
7.8	-18.145	-4.302
7.9	-22.813	-4.441
8	-33.890	-4.577
8.1	-24.585	-4.712

8.2	-20.161	-4.845
8.3	-19.133	-4.977
8.4	-20.425	-5.107
8.5	-22.854	-5.235
8.6	-25.726	-5.362
8.7	-27.392	-5.488
8.8	-26.479	-5.612
8.9	-23.892	-5.735
9	-21.617	-5.856
9.1	-19.426	-5.976
9.2	-17.395	-6.095
9.3	-16.102	-6.212
9.4	-15.621	-6.328
9.5	-15.986	-6.443
9.6	-17.585	-6.557
9.7	-20.812	-6.669
9.8	-23.893	-6.781
9.9	-22.875	-6.891
10	-20.773	-7.000
10.1	-21.049	-7.108
10.2	-22.692	-7.215
10.3	-24.161	-7.321
10.4	-23.976	-7.426
10.5	-22.592	-7.530
10.6	-21.401	-7.633
10.7	-21.126	-7.735
10.8	-21.489	-7.836
10.9	-22.037	-7.936
11	-23.054	-8.035
11.1	-23.786	-8.133
11.2	-24.068	-8.230
11.3	-24.274	-8.327
11.4	-25.855	-8.423
11.5	-30.377	-8.517
11.6	-42.045	-8.611
11.7	-39.875	-8.705
11.8	-35.529	-8.797
11.9	-36.201	-8.889
12	-37.362	-8.980
12.1	-40.000	-9.070
12.2	-39.332	-9.159

12.3	-39.650	-9.248
12.4	-37.573	-9.336
12.5	-34.871	-9.423
12.6	-31.428	-9.509
12.7	-26.963	-9.595
12.8	-23.483	-9.680
12.9	-21.017	-9.765
13	-19.778	-9.849
13.1	-19.886	-9.932
13.2	-21.659	-10.014
13.3	-24.801	-10.096
13.4	-26.621	-10.178
13.5	-25.240	-10.258
13.6	-24.352	-10.338
13.7	-24.681	-10.418
13.8	-24.471	-10.497
13.9	-23.268	-10.575
14	-22.182	-10.653
14.1	-21.821	-10.730
14.2	-23.200	-10.807
14.3	-27.182	-10.883
14.4	-36.173	-10.959
14.5	-36.831	-11.034
14.6	-29.682	-11.109
14.7	-26.978	-11.183
14.8	-25.727	-11.257
14.9	-24.537	-11.330
15	-23.150	-11.402
15.1	-22.086	-11.474
15.2	-21.856	-11.546
15.3	-22.978	-11.617
15.4	-25.933	-11.688
15.5	-33.148	-11.758
15.6	-36.987	-11.828
15.7	-28.447	-11.897
15.8	-25.140	-11.966
15.9	-23.934	-12.035
16	-24.133	-12.103
16.1	-24.662	-12.171
16.2	-25.016	-12.238
16.3	-25.094	-12.305

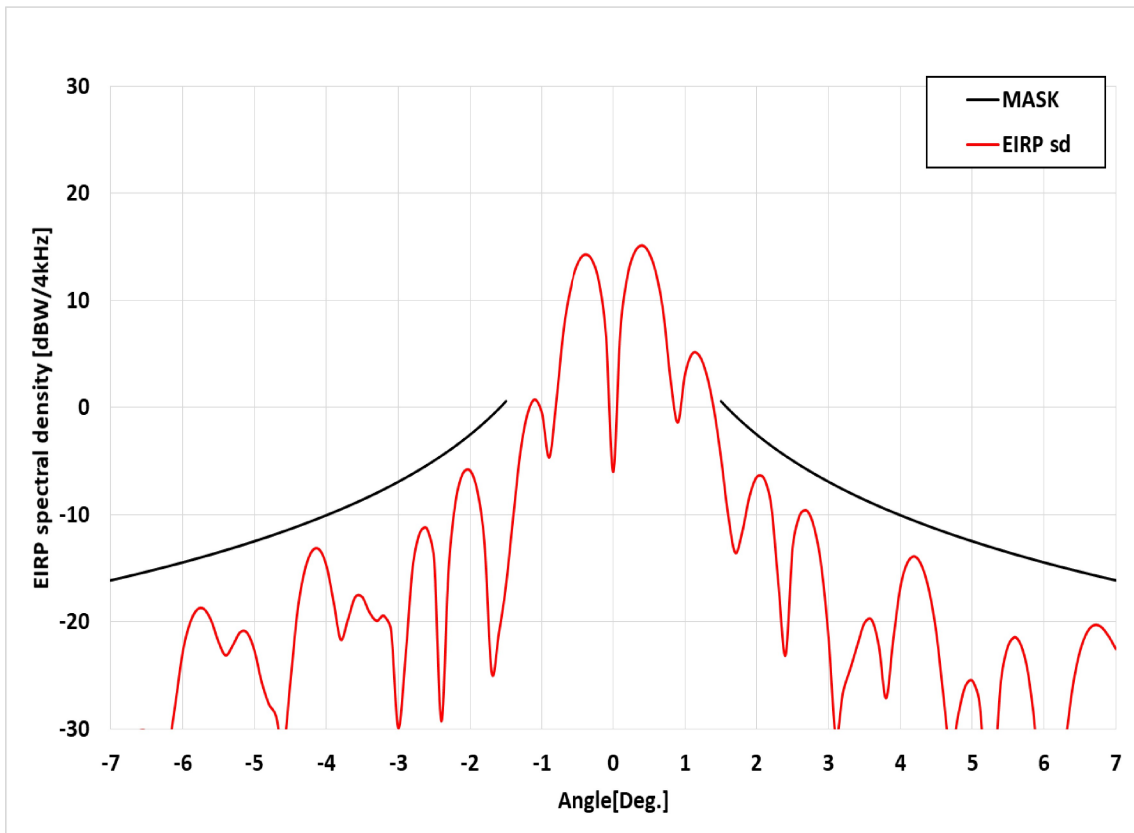
16.4	-25.275	-12.371
16.5	-25.936	-12.437
16.6	-27.873	-12.503
16.7	-32.453	-12.568
16.8	-36.788	-12.633
16.9	-31.382	-12.697
17	-28.320	-12.761
17.1	-28.154	-12.825
17.2	-29.784	-12.888
17.3	-32.819	-12.951
17.4	-35.598	-13.014
17.5	-35.520	-13.076
17.6	-34.877	-13.138
17.7	-32.830	-13.199
17.8	-29.706	-13.261
17.9	-26.780	-13.321
18	-25.233	-13.382
18.1	-23.650	-13.442
18.2	-21.853	-13.502
18.3	-20.699	-13.561
18.4	-20.546	-13.620
18.5	-21.352	-13.679
18.6	-22.772	-13.738
18.7	-25.547	-13.796
18.8	-26.003	-13.854
18.9	-24.727	-13.912
19	-25.044	-13.969
19.1	-27.084	-14.026
19.2	-30.728	-14.000
19.3	-35.834	-14.000
19.4	-38.862	-14.000
19.5	-37.829	-14.000
19.6	-39.057	-14.000
19.7	-39.157	-14.000
19.8	-42.748	-14.000
19.9	-44.239	-14.000
20	-32.320	-14.000
20.1	-27.898	-14.000
20.2	-25.634	-14.000
20.3	-25.055	-14.000
20.4	-27.149	-14.000

20.5	-30.238	-14.000
20.6	-29.245	-14.000
20.7	-27.198	-14.000
20.8	-25.825	-14.000
20.9	-24.835	-14.000
21	-24.324	-14.000
21.1	-24.095	-14.000
21.2	-23.385	-14.000
21.3	-22.838	-14.000
21.4	-23.651	-14.000
21.5	-24.754	-14.000
21.6	-26.326	-14.000
21.7	-27.020	-14.000
21.8	-25.714	-14.000
21.9	-24.177	-14.000
22	-23.124	-14.000
22.1	-23.027	-14.000
22.2	-22.682	-14.000
22.3	-21.906	-14.000
22.4	-21.405	-14.000
22.5	-20.815	-14.000
22.6	-20.311	-14.000
22.7	-20.280	-14.000
22.8	-20.836	-14.000
22.9	-20.836	-14.000
23	-20.383	-14.000
23.1	-20.522	-14.000
23.2	-20.797	-14.000
23.3	-21.036	-14.000
23.4	-21.826	-14.000
23.5	-22.779	-14.000
23.6	-22.489	-14.000
23.7	-21.298	-14.000
23.8	-21.136	-14.000
23.9	-20.909	-14.000
24	-20.475	-14.000
24.1	-20.499	-14.000
24.2	-20.774	-14.000
24.3	-20.565	-14.000
24.4	-20.463	-14.000
24.5	-21.621	-14.000

24.6	-23.127	-14.000
24.7	-24.166	-14.000
24.8	-25.528	-14.000
24.9	-27.035	-14.000
25	-27.515	-14.000
25.1	-27.568	-14.000
25.2	-28.631	-14.000
25.3	-27.820	-14.000
25.4	-25.328	-14.000
25.5	-24.516	-14.000
25.6	-24.150	-14.000
25.7	-23.622	-14.000
25.8	-23.337	-14.000
25.9	-23.547	-14.000
26	-22.940	-14.000
26.1	-21.980	-14.000
26.2	-22.498	-14.000
26.3	-23.420	-14.000
26.4	-23.922	-14.000
26.5	-23.983	-14.000
26.6	-23.790	-14.000
26.7	-22.804	-14.000
26.8	-21.680	-14.000
26.9	-21.867	-14.000
27	-21.980	-14.000
27.1	-21.433	-14.000
27.2	-20.921	-14.000
27.3	-20.750	-14.000
27.4	-20.248	-14.000
27.5	-19.570	-14.000
27.6	-20.026	-14.000
27.7	-19.929	-14.000
27.8	-19.088	-14.000
27.9	-18.591	-14.000
28	-18.567	-14.000
28.1	-18.475	-14.000
28.2	-18.356	-14.000
28.3	-19.116	-14.000
28.4	-19.686	-14.000
28.5	-19.791	-14.000
28.6	-19.981	-14.000

28.7	-20.498	-14.000
28.8	-20.700	-14.000
28.9	-20.500	-14.000
29	-20.866	-14.000
29.1	-20.646	-14.000
29.2	-20.101	-14.000
29.3	-20.146	-14.000
29.4	-20.599	-14.000
29.5	-20.681	-14.000
29.6	-20.601	-14.000
29.7	-21.388	-14.000
29.8	-21.586	-14.000
29.9	-21.423	-14.000
30	-21.896	-14.000

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



-18.37 dBW/4kHz Input power spectral density @ f=13.75GHz

▪ **FCC EIRP spectral density regulation**

$5-25\log(\theta) \quad \text{dBW/4kHz for } 1.5^\circ \leq \theta \leq 7.0^\circ$
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*The v240MT's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -18.37 dBW/ 4kHz*

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

F=13.75GHz, -18.37 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
-7	-33.304	-16.127
-6.9	-33.204	-15.971
-6.8	-32.174	-15.813
-6.7	-30.960	-15.652
-6.6	-30.175	-15.489
-6.5	-30.305	-15.323
-6.4	-32.047	-15.154
-6.3	-34.721	-14.984
-6.2	-31.978	-14.810
-6.1	-27.664	-14.633
-6	-22.927	-14.454
-5.9	-20.182	-14.271
-5.8	-18.872	-14.086
-5.7	-18.807	-13.897
-5.6	-19.909	-13.705
-5.5	-21.868	-13.509
-5.4	-23.128	-13.310
-5.3	-22.175	-13.107
-5.2	-20.976	-12.900
-5.1	-21.035	-12.689
-5	-22.688	-12.474
-4.9	-25.601	-12.255
-4.8	-27.652	-12.031
-4.7	-28.776	-11.802
-4.6	-31.810	-11.569
-4.5	-25.603	-11.330
-4.4	-18.952	-11.086
-4.3	-15.193	-10.837
-4.2	-13.395	-10.581
-4.1	-13.232	-10.320
-4	-14.728	-10.051
-3.9	-18.098	-9.777
-3.8	-21.659	-9.495
-3.7	-19.800	-9.205
-3.6	-17.703	-8.908
-3.5	-17.684	-8.602
-3.4	-19.107	-8.287
-3.3	-19.905	-7.963
-3.2	-19.436	-7.629
-3.1	-20.764	-7.284
-3	-29.901	-6.928

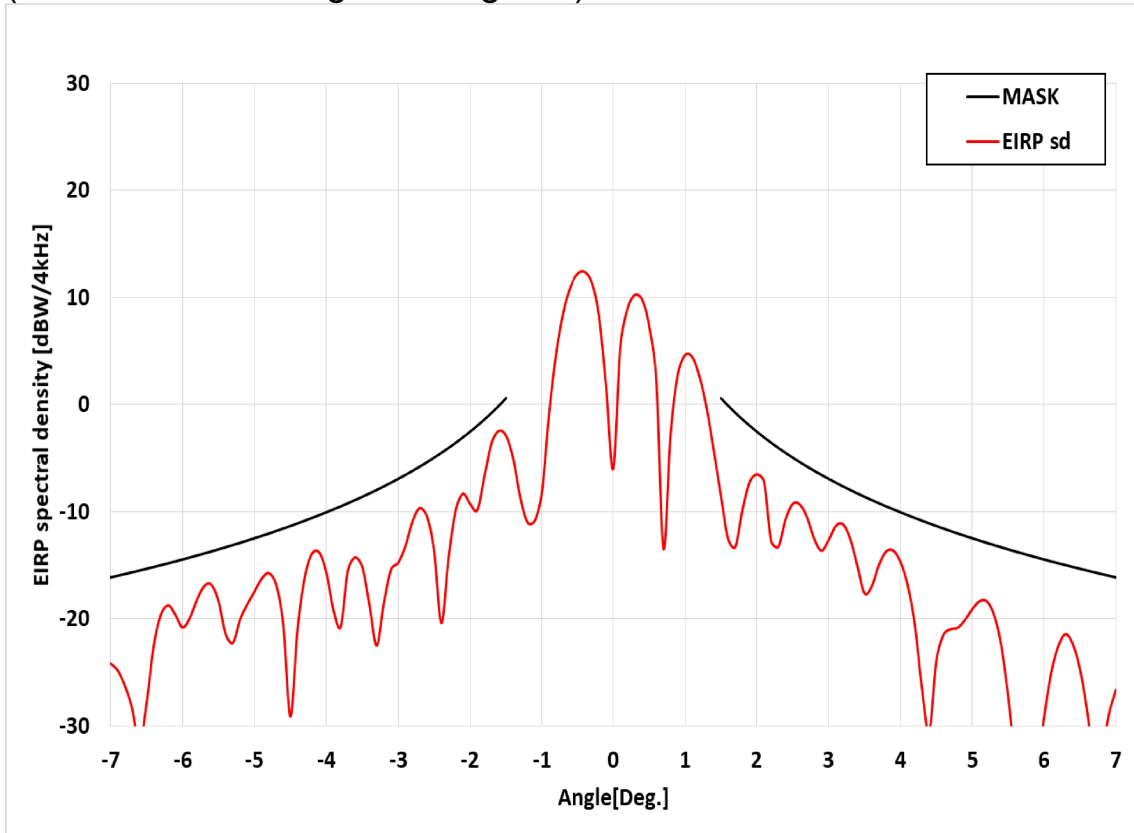
-2.9	-23.342	-6.560
-2.8	-14.941	-6.179
-2.7	-11.695	-5.784
-2.6	-11.295	-5.374
-2.5	-14.226	-4.949
-2.4	-29.268	-4.505
-2.3	-15.214	-4.043
-2.2	-8.664	-3.561
-2.1	-6.129	-3.055
-2	-5.875	-2.526
-1.9	-7.768	-1.969
-1.8	-12.665	-1.382
-1.7	-24.725	-0.761
-1.6	-21.050	-0.103
-1.5	-16.533	0.598
-1.4	-10.182	
-1.3	-4.107	
-1.2	-0.531	
-1.1	0.757	
-1	-0.529	
-0.9	-4.643	
-0.8	0.638	
-0.7	7.217	
-0.6	11.147	
-0.5	13.380	
-0.4	14.275	
-0.3	13.853	
-0.2	11.784	
-0.1	6.731	
-7.09655E-13	-6.011	
0.1	7.206	
0.2	12.310	
0.3	14.529	
0.4	15.132	
0.5	14.444	
0.6	12.441	
0.7	8.765	
0.8	2.545	
0.9	-1.378	
1	3.083	
1.1	5.021	

1.2	4.853	
1.3	3.105	
1.4	-0.071	
1.5	-4.600	0.598
1.6	-9.989	-0.103
1.7	-13.553	-0.761
1.8	-11.500	-1.382
1.9	-8.235	-1.969
2	-6.469	-2.526
2.1	-6.594	-3.055
2.2	-9.089	-3.561
2.3	-16.406	-4.043
2.4	-23.121	-4.505
2.5	-13.001	-4.949
2.6	-10.002	-5.374
2.7	-9.636	-5.784
2.8	-11.224	-6.179
2.9	-14.890	-6.560
3	-21.602	-6.928
3.1	-30.649	-7.284
3.2	-26.610	-7.629
3.3	-24.427	-7.963
3.4	-22.179	-8.287
3.5	-20.110	-8.602
3.6	-19.822	-8.908
3.7	-22.280	-9.205
3.8	-27.123	-9.495
3.9	-21.664	-9.777
4	-16.723	-10.051
4.1	-14.426	-10.320
4.2	-13.900	-10.581
4.3	-14.815	-10.837
4.4	-17.126	-11.086
4.5	-21.017	-11.330
4.6	-26.978	-11.569
4.7	-32.416	-11.802
4.8	-28.850	-12.031
4.9	-26.061	-12.255
5	-25.484	-12.474
5.1	-27.502	-12.689
5.2	-35.391	-12.900

5.3	-34.359	-13.107
5.4	-25.487	-13.310
5.5	-22.232	-13.509
5.6	-21.438	-13.705
5.7	-22.562	-13.897
5.8	-25.795	-14.086
5.9	-32.365	-14.271
6	-47.287	-14.454
6.1	-38.638	-14.633
6.2	-35.920	-14.810
6.3	-31.064	-14.984
6.4	-26.019	-15.154
6.5	-22.751	-15.323
6.6	-20.966	-15.489
6.7	-20.301	-15.652
6.8	-20.501	-15.813
6.9	-21.349	-15.971
7	-22.536	-16.127



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



-18.37 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's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -18.37 dBW/ 4kHz*

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

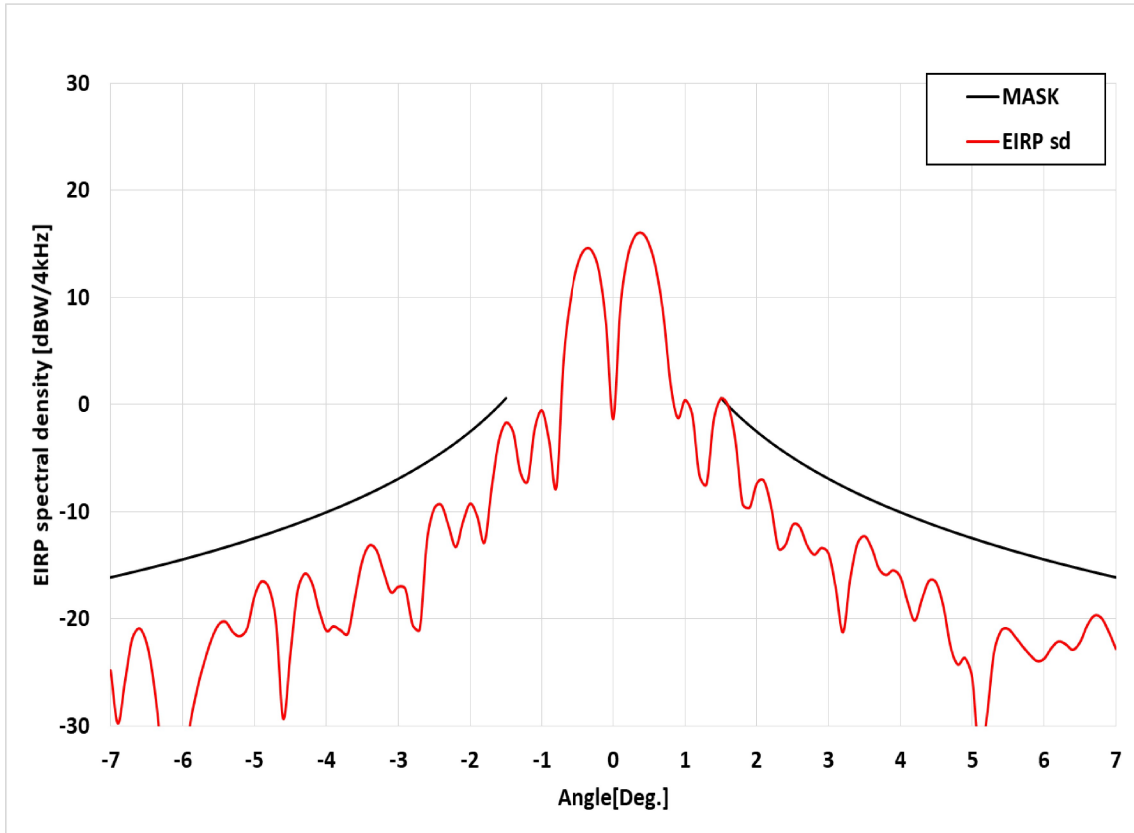
F=13.75GHz, -18.37 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
-7	-24.165	-16.127
-6.9	-24.842	-15.971
-6.8	-26.294	-15.813
-6.7	-28.390	-15.652
-6.6	-31.870	-15.489
-6.5	-27.833	-15.323
-6.4	-22.476	-15.154
-6.3	-19.580	-14.984
-6.2	-18.736	-14.810
-6.1	-19.616	-14.633
-6	-20.803	-14.454
-5.9	-19.929	-14.271
-5.8	-18.222	-14.086
-5.7	-16.955	-13.897
-5.6	-16.808	-13.705
-5.5	-18.360	-13.509
-5.4	-21.428	-13.310
-5.3	-22.244	-13.107
-5.2	-20.058	-12.900
-5.1	-18.649	-12.689
-5	-17.448	-12.474
-4.9	-16.265	-12.255
-4.8	-15.728	-12.031
-4.7	-16.746	-11.802
-4.6	-20.503	-11.569
-4.5	-29.101	-11.330
-4.4	-20.958	-11.086
-4.3	-16.118	-10.837
-4.2	-13.903	-10.581
-4.1	-13.788	-10.320
-4	-15.675	-10.051
-3.9	-19.217	-9.777
-3.8	-20.722	-9.495
-3.7	-15.470	-9.205
-3.6	-14.260	-8.908
-3.5	-15.138	-8.602
-3.4	-18.719	-8.287
-3.3	-22.496	-7.963
-3.2	-18.491	-7.629
-3.1	-15.403	-7.284
-3	-14.750	-6.928

-2.9	-13.202	-6.560
-2.8	-10.875	-6.179
-2.7	-9.658	-5.784
-2.6	-10.437	-5.374
-2.5	-13.718	-4.949
-2.4	-20.393	-4.505
-2.3	-14.320	-4.043
-2.2	-9.845	-3.561
-2.1	-8.326	-3.055
-2	-9.262	-2.526
-1.9	-9.840	-1.969
-1.8	-6.659	-1.382
-1.7	-3.548	-0.761
-1.6	-2.448	-0.103
-1.5	-2.903	0.598
-1.4	-5.063	
-1.3	-8.753	
-1.2	-11.018	
-1.1	-10.830	
-1	-8.109	
-0.9	-0.707	
-0.8	4.903	
-0.7	8.712	
-0.6	11.028	
-0.5	12.194	
-0.4	12.400	
-0.3	11.427	
-0.2	8.332	
-0.1	1.787	
-7.09655E-13	-6.011	
0.1	5.442	
0.2	8.962	
0.3	10.236	
0.4	9.840	
0.5	7.376	
0.6	2.312	
0.7	-13.454	
0.8	-2.758	
0.9	2.814	
1	4.613	
1.1	4.447	

1.2	2.665	
1.3	-0.277	
1.4	-4.284	
1.5	-8.482	0.598
1.6	-12.555	-0.103
1.7	-13.288	-0.761
1.8	-9.805	-1.382
1.9	-7.232	-1.969
2	-6.510	-2.526
2.1	-7.172	-3.055
2.2	-12.738	-3.561
2.3	-13.284	-4.043
2.4	-10.725	-4.505
2.5	-9.268	-4.949
2.6	-9.329	-5.374
2.7	-10.540	-5.784
2.8	-12.537	-6.179
2.9	-13.631	-6.560
3	-12.637	-6.928
3.1	-11.338	-7.284
3.2	-11.163	-7.629
3.3	-12.504	-7.963
3.4	-15.055	-8.287
3.5	-17.610	-8.602
3.6	-16.976	-8.908
3.7	-14.970	-9.205
3.8	-13.717	-9.495
3.9	-13.629	-9.777
4	-14.685	-10.051
4.1	-16.850	-10.320
4.2	-20.541	-10.581
4.3	-26.507	-10.837
4.4	-30.573	-11.086
4.5	-23.927	-11.330
4.6	-21.478	-11.569
4.7	-20.963	-11.802
4.8	-20.825	-12.031
4.9	-20.087	-12.255
5	-19.094	-12.474
5.1	-18.360	-12.689
5.2	-18.350	-12.900

5.3	-19.564	-13.107
5.4	-22.364	-13.310
5.5	-27.162	-13.509
5.6	-33.144	-13.705
5.7	-34.423	-13.897
5.8	-35.481	-14.086
5.9	-34.704	-14.271
6	-29.226	-14.454
6.1	-25.035	-14.633
6.2	-22.518	-14.810
6.3	-21.438	-14.984
6.4	-22.355	-15.154
6.5	-24.688	-15.323
6.6	-28.589	-15.489
6.7	-33.464	-15.652
6.8	-32.814	-15.813
6.9	-28.999	-15.971
7	-26.625	-16.127

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



-18.37 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's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -18.37 dBW/ 4kHz*

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

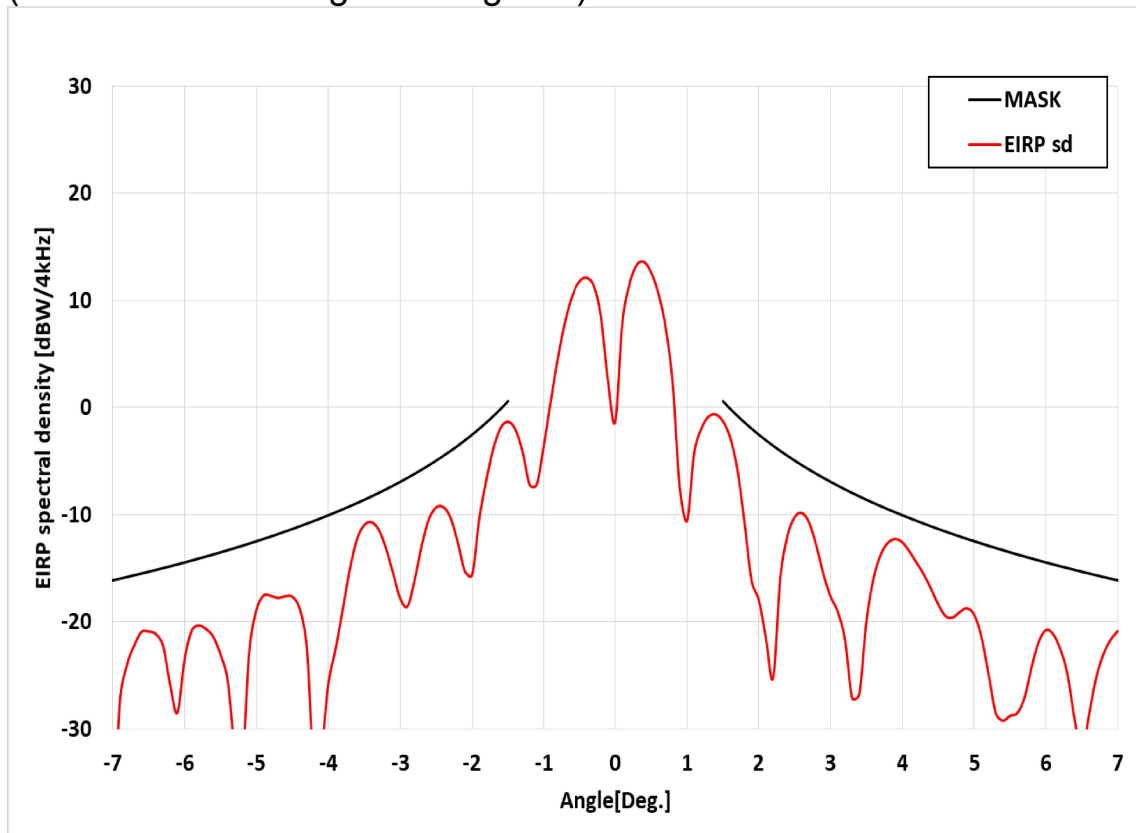
F=14.5GHz, -18.37 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
-7	-24.819	-16.127
-6.9	-29.751	-15.971
-6.8	-25.807	-15.813
-6.7	-21.860	-15.652
-6.6	-20.892	-15.489
-6.5	-22.264	-15.323
-6.4	-26.005	-15.154
-6.3	-32.825	-14.984
-6.2	-48.011	-14.810
-6.1	-46.174	-14.633
-6	-35.596	-14.454
-5.9	-30.100	-14.271
-5.8	-26.674	-14.086
-5.7	-24.093	-13.897
-5.6	-21.959	-13.705
-5.5	-20.551	-13.509
-5.4	-20.285	-13.310
-5.3	-21.237	-13.107
-5.2	-21.620	-12.900
-5.1	-20.864	-12.689
-5	-17.899	-12.474
-4.9	-16.513	-12.255
-4.8	-17.066	-12.031
-4.7	-20.291	-11.802
-4.6	-29.312	-11.569
-4.5	-23.284	-11.330
-4.4	-17.391	-11.086
-4.3	-15.786	-10.837
-4.2	-16.645	-10.581
-4.1	-19.208	-10.320
-4	-21.091	-10.051
-3.9	-20.705	-9.777
-3.8	-21.075	-9.495
-3.7	-21.367	-9.205
-3.6	-17.917	-8.908
-3.5	-14.573	-8.602
-3.4	-13.144	-8.287
-3.3	-13.622	-7.963
-3.2	-15.702	-7.629
-3.1	-17.522	-7.284
-3	-17.012	-6.928

-2.9	-17.231	-6.560
-2.8	-20.569	-6.179
-2.7	-20.960	-5.784
-2.6	-12.736	-5.374
-2.5	-9.701	-4.949
-2.4	-9.362	-4.505
-2.3	-11.322	-4.043
-2.2	-13.284	-3.561
-2.1	-10.972	-3.055
-2	-9.253	-2.526
-1.9	-10.456	-1.969
-1.8	-12.852	-1.382
-1.7	-7.759	-0.761
-1.6	-3.363	-0.103
-1.5	-1.689	0.598
-1.4	-2.568	
-1.3	-6.367	
-1.2	-7.151	
-1.1	-2.210	
-1	-0.555	
-0.9	-3.431	
-0.8	-7.683	
-0.7	4.065	
-0.6	9.840	
-0.5	13.000	
-0.4	14.453	
-0.3	14.384	
-0.2	12.517	
-0.1	7.565	
-7.09655E-13	-1.339	
0.1	9.052	
0.2	13.726	
0.3	15.693	
0.4	16.022	
0.5	14.984	
0.6	12.526	
0.7	8.299	
0.8	1.892	
0.9	-1.242	
1	0.406	
1.1	-0.897	

1.2	-6.570	
1.3	-7.414	
1.4	-1.435	
1.5	0.557	0.598
1.6	-0.103	-0.103
1.7	-3.283	-0.761
1.8	-9.239	-1.382
1.9	-9.612	-1.969
2	-7.366	-2.526
2.1	-7.134	-3.055
2.2	-9.544	-3.561
2.3	-13.402	-4.043
2.4	-13.080	-4.505
2.5	-11.241	-4.949
2.6	-11.436	-5.374
2.7	-13.133	-5.784
2.8	-14.003	-6.179
2.9	-13.385	-6.560
3	-13.905	-6.928
3.1	-17.158	-7.284
3.2	-21.253	-7.629
3.3	-16.315	-7.963
3.4	-12.993	-8.287
3.5	-12.271	-8.602
3.6	-13.395	-8.908
3.7	-15.304	-9.205
3.8	-15.902	-9.495
3.9	-15.475	-9.777
4	-16.108	-10.051
4.1	-18.416	-10.320
4.2	-20.162	-10.581
4.3	-18.163	-10.837
4.4	-16.436	-11.086
4.5	-16.640	-11.330
4.6	-18.876	-11.569
4.7	-22.653	-11.802
4.8	-24.258	-12.031
4.9	-23.658	-12.255
5	-25.544	-12.474
5.1	-32.904	-12.689
5.2	-29.344	-12.900

5.3	-23.260	-13.107
5.4	-21.123	-13.310
5.5	-20.939	-13.509
5.6	-21.685	-13.705
5.7	-22.562	-13.897
5.8	-23.323	-14.086
5.9	-23.926	-14.271
6	-23.728	-14.454
6.1	-22.747	-14.633
6.2	-22.109	-14.810
6.3	-22.366	-14.984
6.4	-22.891	-15.154
6.5	-22.200	-15.323
6.6	-20.640	-15.489
6.7	-19.701	-15.652
6.8	-19.923	-15.813
6.9	-21.183	-15.971
7	-22.796	-16.127

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



-18.37 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's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -18.37 dBW/ 4kHz*

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

F=14.5GHz, -18.37 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
-7	-42.424	-16.127
-6.9	-27.473	-15.971
-6.8	-23.991	-15.813
-6.7	-22.215	-15.652
-6.6	-20.945	-15.489
-6.5	-20.899	-15.323
-6.4	-21.145	-15.154
-6.3	-22.215	-14.984
-6.2	-25.904	-14.810
-6.1	-28.481	-14.633
-6	-23.536	-14.454
-5.9	-20.807	-14.271
-5.8	-20.342	-14.086
-5.7	-20.680	-13.897
-5.6	-21.403	-13.705
-5.5	-23.038	-13.509
-5.4	-25.476	-13.310
-5.3	-31.960	-13.107
-5.2	-33.519	-12.900
-5.1	-22.748	-12.689
-5	-18.850	-12.474
-4.9	-17.538	-12.255
-4.8	-17.570	-12.031
-4.7	-17.766	-11.802
-4.6	-17.608	-11.569
-4.5	-17.655	-11.330
-4.4	-18.723	-11.086
-4.3	-22.350	-10.837
-4.2	-33.665	-10.581
-4.1	-32.165	-10.320
-4	-25.787	-10.051
-3.9	-22.552	-9.777
-3.8	-18.868	-9.495
-3.7	-15.055	-9.205
-3.6	-12.260	-8.908
-3.5	-10.962	-8.602
-3.4	-10.702	-8.287
-3.3	-11.388	-7.963
-3.2	-13.111	-7.629
-3.1	-15.443	-7.284
-3	-17.828	-6.928

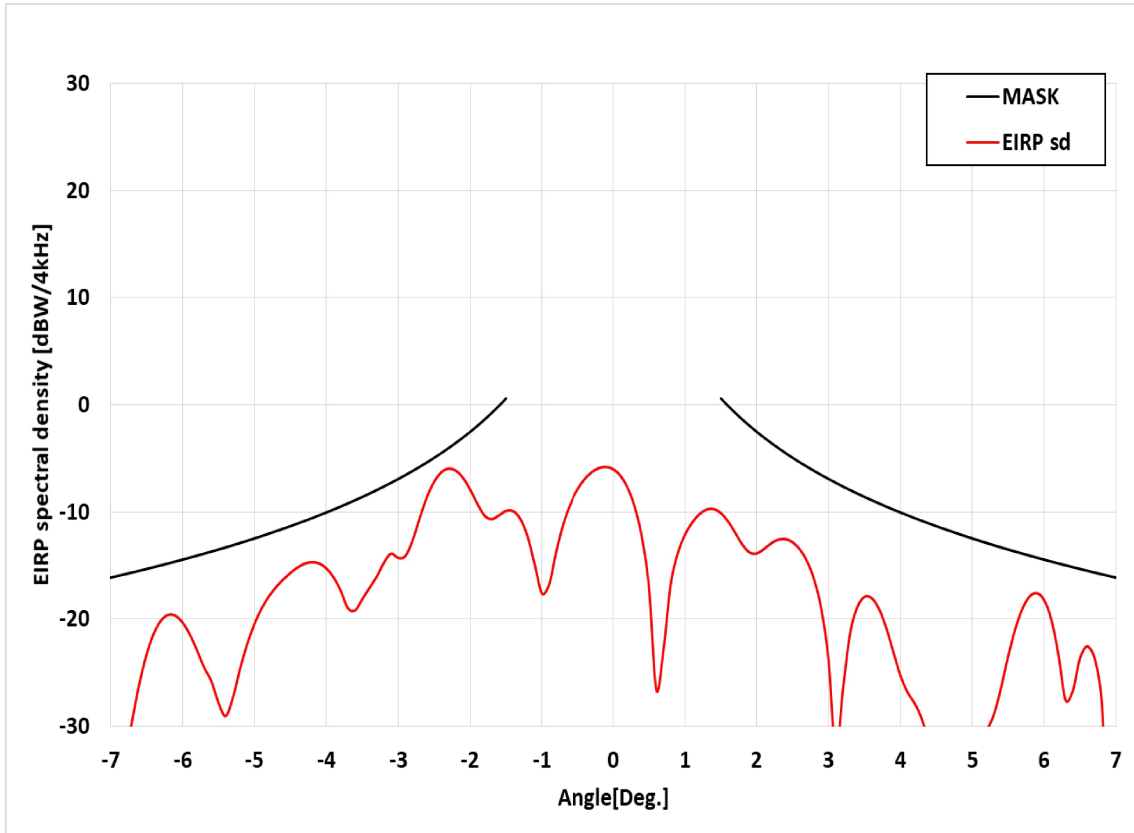
-2.9	-18.551	-6.560
-2.8	-16.093	-6.179
-2.7	-12.843	-5.784
-2.6	-10.393	-5.374
-2.5	-9.321	-4.949
-2.4	-9.295	-4.505
-2.3	-10.295	-4.043
-2.2	-12.585	-3.561
-2.1	-15.288	-3.055
-2	-15.624	-2.526
-1.9	-10.339	-1.969
-1.8	-6.666	-1.382
-1.7	-3.701	-0.761
-1.6	-1.850	-0.103
-1.5	-1.321	0.598
-1.4	-2.017	
-1.3	-4.062	
-1.2	-7.191	
-1.1	-7.159	
-1	-3.416	
-0.9	0.885	
-0.8	4.890	
-0.7	8.206	
-0.6	10.531	
-0.5	11.772	
-0.4	12.131	
-0.3	11.400	
-0.2	8.516	
-0.1	2.471	
-7.09655E-13	-1.339	
0.1	7.937	
0.2	11.556	
0.3	13.322	
0.4	13.602	
0.5	12.626	
0.6	10.683	
0.7	7.549	
0.8	2.275	
0.9	-7.514	
1	-10.596	
1.1	-4.232	



1.2	-1.962	
1.3	-0.840	
1.4	-0.646	
1.5	-1.278	0.598
1.6	-2.779	-0.103
1.7	-5.740	-0.761
1.8	-10.724	-1.382
1.9	-16.174	-1.969
2	-17.955	-2.526
2.1	-21.569	-3.055
2.2	-25.231	-3.561
2.3	-15.856	-4.043
2.4	-11.951	-4.505
2.5	-10.227	-4.949
2.6	-9.841	-5.374
2.7	-10.735	-5.784
2.8	-12.860	-6.179
2.9	-15.562	-6.560
3	-17.647	-6.928
3.1	-19.066	-7.284
3.2	-21.668	-7.629
3.3	-27.112	-7.963
3.4	-26.726	-8.287
3.5	-19.889	-8.602
3.6	-15.886	-8.908
3.7	-13.686	-9.205
3.8	-12.604	-9.495
3.9	-12.262	-9.777
4	-12.586	-10.051
4.1	-13.453	-10.320
4.2	-14.515	-10.581
4.3	-15.607	-10.837
4.4	-16.946	-11.086
4.5	-18.375	-11.330
4.6	-19.457	-11.569
4.7	-19.596	-11.802
4.8	-19.072	-12.031
4.9	-18.733	-12.255
5	-19.355	-12.474
5.1	-21.407	-12.689
5.2	-24.909	-12.900

5.3	-28.542	-13.107
5.4	-29.220	-13.310
5.5	-28.760	-13.509
5.6	-28.505	-13.705
5.7	-27.082	-13.897
5.8	-24.201	-14.086
5.9	-21.832	-14.271
6	-20.760	-14.454
6.1	-21.167	-14.633
6.2	-22.567	-14.810
6.3	-24.969	-14.984
6.4	-29.207	-15.154
6.5	-32.213	-15.323
6.6	-28.604	-15.489
6.7	-25.163	-15.652
6.8	-23.012	-15.813
6.9	-21.670	-15.971
7	-20.839	-16.127

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



-18.37 dBW/4kHz Input power spectral density @ f=13.75GHz

▪ **FCC EIRP spectral density regulation**

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

*The v240MT's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -18.37 dBW/ 4kHz*

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

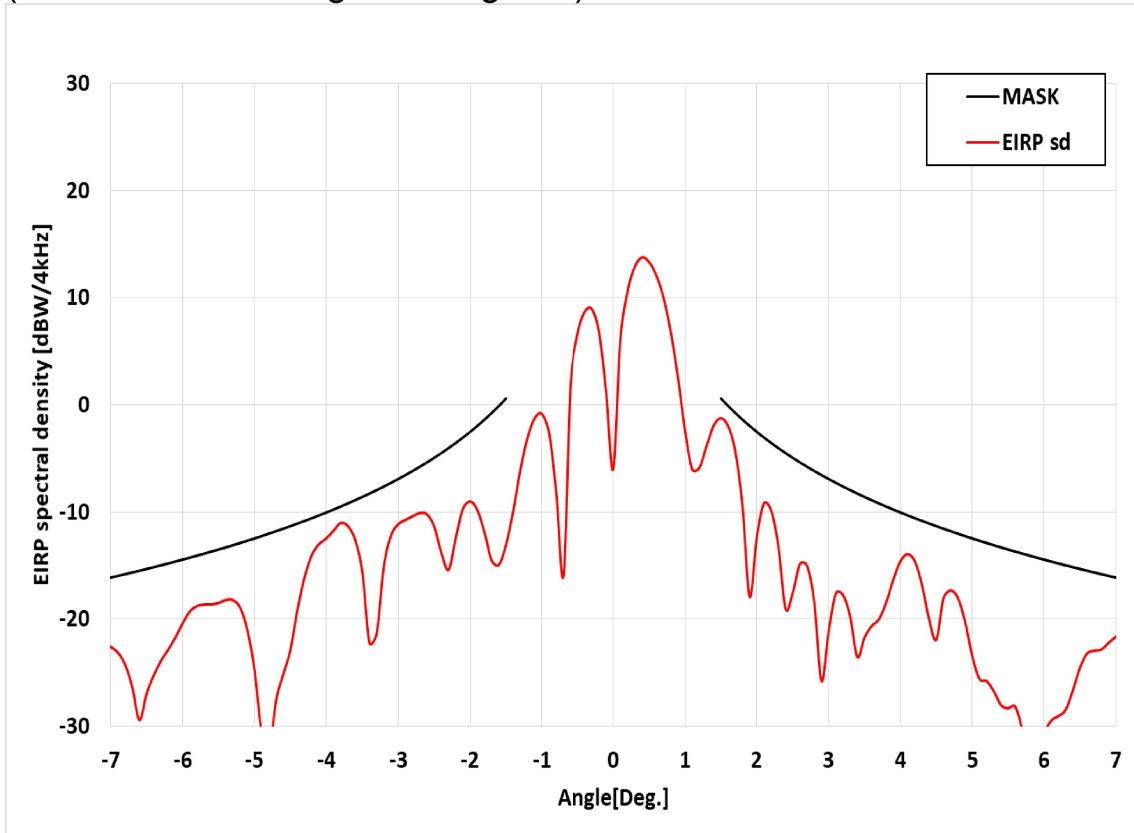
F=13.75GHz, -18.37 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
-7	-33.937	-16.127
-6.9	-35.213	-15.971
-6.8	-33.106	-15.813
-6.7	-29.435	-15.652
-6.6	-26.013	-15.489
-6.5	-23.298	-15.323
-6.4	-21.353	-15.154
-6.3	-20.144	-14.984
-6.2	-19.610	-14.810
-6.1	-19.691	-14.633
-6	-20.322	-14.454
-5.9	-21.430	-14.271
-5.8	-22.904	-14.086
-5.7	-24.523	-13.897
-5.6	-25.798	-13.705
-5.5	-27.818	-13.509
-5.4	-29.054	-13.310
-5.3	-27.339	-13.107
-5.2	-24.631	-12.900
-5.1	-22.314	-12.689
-5	-20.455	-12.474
-4.9	-19.011	-12.255
-4.8	-17.898	-12.031
-4.7	-17.024	-11.802
-4.6	-16.304	-11.569
-4.5	-15.691	-11.330
-4.4	-15.185	-11.086
-4.3	-14.828	-10.837
-4.2	-14.683	-10.581
-4.1	-14.811	-10.320
-4	-15.268	-10.051
-3.9	-16.103	-9.777
-3.8	-17.349	-9.495
-3.7	-18.983	-9.205
-3.6	-19.188	-8.908
-3.5	-18.149	-8.602
-3.4	-17.092	-8.287
-3.3	-16.051	-7.963
-3.2	-14.752	-7.629
-3.1	-13.900	-7.284
-3	-14.295	-6.928

-2.9	-14.110	-6.560
-2.8	-12.655	-6.179
-2.7	-10.541	-5.784
-2.6	-8.607	-5.374
-2.5	-7.175	-4.949
-2.4	-6.298	-4.505
-2.3	-5.961	-4.043
-2.2	-6.141	-3.561
-2.1	-6.812	-3.055
-2	-7.908	-2.526
-1.9	-9.237	-1.969
-1.8	-10.339	-1.382
-1.7	-10.675	-0.761
-1.6	-10.322	-0.103
-1.5	-9.907	0.598
-1.4	-9.935	
-1.3	-10.677	
-1.2	-12.316	
-1.1	-14.951	
-1	-17.626	
-0.9	-16.754	
-0.8	-13.652	
-0.7	-11.072	
-0.6	-9.222	
-0.5	-7.900	
-0.4	-6.952	
-0.3	-6.296	
-0.2	-5.907	
-0.1	-5.797	
0	-6.011	
0.1	-6.622	
0.2	-7.740	
0.3	-9.551	
0.4	-12.413	
0.5	-17.185	
0.6	-26.593	
0.7	-22.884	
0.8	-16.822	
0.9	-13.862	
1	-12.131	
1.1	-10.989	

1.2	-10.212	
1.3	-9.777	
1.4	-9.731	
1.5	-10.107	0.598
1.6	-10.887	-0.103
1.7	-11.957	-0.761
1.8	-13.061	-1.382
1.9	-13.794	-1.969
2	-13.876	-2.526
2.1	-13.459	-3.055
2.2	-12.932	-3.561
2.3	-12.583	-4.043
2.4	-12.538	-4.505
2.5	-12.838	-4.949
2.6	-13.508	-5.374
2.7	-14.623	-5.784
2.8	-16.366	-6.179
2.9	-19.145	-6.560
3	-23.974	-6.928
3.1	-32.781	-7.284
3.2	-26.566	-7.629
3.3	-21.323	-7.963
3.4	-18.878	-8.287
3.5	-17.934	-8.602
3.6	-18.048	-8.908
3.7	-19.036	-9.205
3.8	-20.775	-9.495
3.9	-23.042	-9.777
4	-25.288	-10.051
4.1	-26.842	-10.320
4.2	-27.908	-10.581
4.3	-29.371	-10.837
4.4	-31.819	-11.086
4.5	-35.295	-11.330
4.6	-39.000	-11.569
4.7	-41.801	-11.802
4.8	-41.573	-12.031
4.9	-37.324	-12.255
5	-33.721	-12.474
5.1	-31.623	-12.689
5.2	-30.403	-12.900

5.3	-28.935	-13.107
5.4	-26.436	-13.310
5.5	-23.500	-13.509
5.6	-20.921	-13.705
5.7	-19.017	-13.897
5.8	-17.884	-14.086
5.9	-17.583	-14.271
6	-18.222	-14.454
6.1	-20.016	-14.633
6.2	-23.323	-14.810
6.3	-27.582	-14.984
6.4	-26.712	-15.154
6.5	-23.670	-15.323
6.6	-22.553	-15.489
6.7	-23.563	-15.652
6.8	-27.451	-15.813
6.9	-39.845	-15.971
7	-32.240	-16.127

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



-18.37 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's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -18.37 dBW/ 4kHz*

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

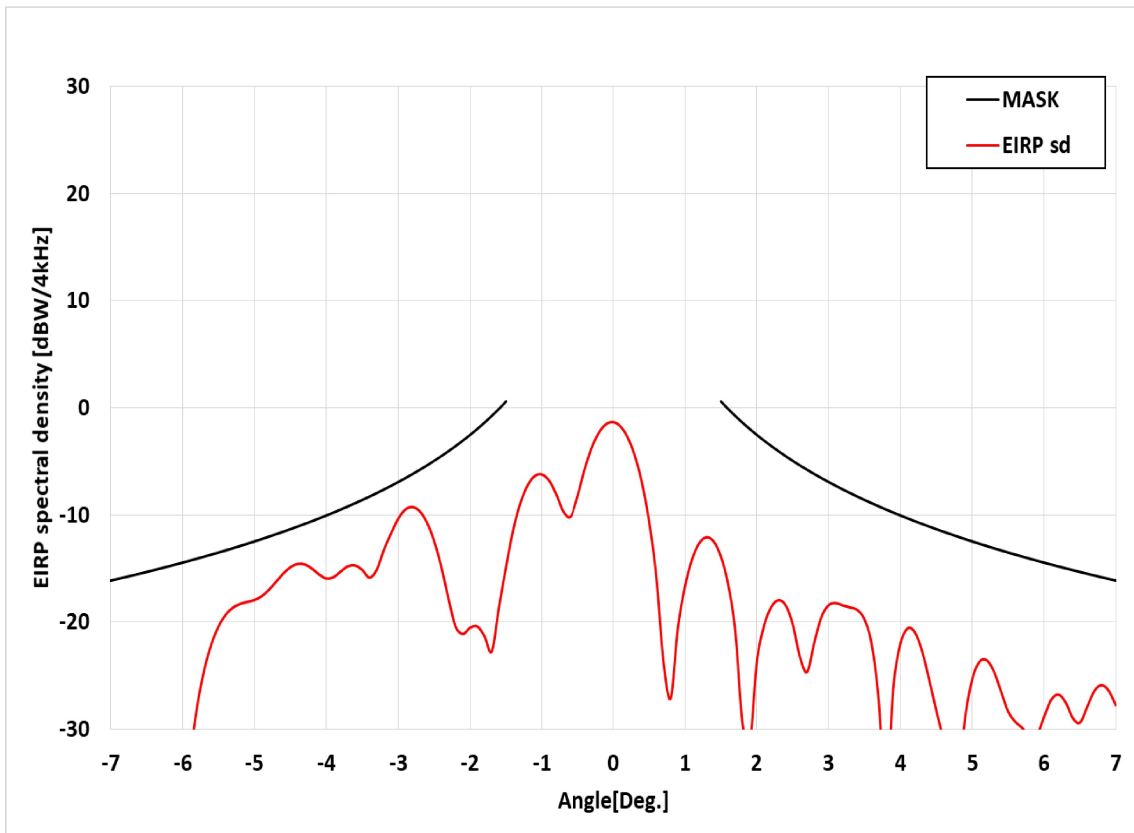
F=13.75GHz, -18.37 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
-7	-22.587	-16.127
-6.9	-23.134	-15.971
-6.8	-24.241	-15.813
-6.7	-26.335	-15.652
-6.6	-29.427	-15.489
-6.5	-26.960	-15.323
-6.4	-25.256	-15.154
-6.3	-23.892	-14.984
-6.2	-22.864	-14.810
-6.1	-21.731	-14.633
-6	-20.423	-14.454
-5.9	-19.298	-14.271
-5.8	-18.792	-14.086
-5.7	-18.633	-13.897
-5.6	-18.628	-13.705
-5.5	-18.498	-13.509
-5.4	-18.228	-13.310
-5.3	-18.227	-13.107
-5.2	-18.923	-12.900
-5.1	-20.998	-12.689
-5	-24.726	-12.474
-4.9	-30.636	-12.255
-4.8	-32.760	-12.031
-4.7	-27.659	-11.802
-4.6	-25.176	-11.569
-4.5	-22.889	-11.330
-4.4	-19.068	-11.086
-4.3	-16.025	-10.837
-4.2	-13.991	-10.581
-4.1	-13.000	-10.320
-4	-12.460	-10.051
-3.9	-11.749	-9.777
-3.8	-11.034	-9.495
-3.7	-11.318	-9.205
-3.6	-12.597	-8.908
-3.5	-15.575	-8.602
-3.4	-22.231	-8.287
-3.3	-21.355	-7.963
-3.2	-15.053	-7.629
-3.1	-12.191	-7.284
-3	-11.155	-6.928

-2.9	-10.740	-6.560
-2.8	-10.406	-6.179
-2.7	-10.101	-5.784
-2.6	-10.221	-5.374
-2.5	-11.360	-4.949
-2.4	-13.814	-4.505
-2.3	-15.403	-4.043
-2.2	-12.429	-3.561
-2.1	-9.712	-3.055
-2	-9.014	-2.526
-1.9	-9.824	-1.969
-1.8	-11.914	-1.382
-1.7	-14.550	-0.761
-1.6	-14.936	-0.103
-1.5	-13.053	0.598
-1.4	-9.904	
-1.3	-6.022	
-1.2	-3.037	
-1.1	-1.229	
-1	-0.872	
-0.9	-2.695	
-0.8	-8.354	
-0.7	-15.874	
-0.6	2.044	
-0.5	6.587	
-0.4	8.659	
-0.3	8.964	
-0.2	6.879	
-0.1	1.303	
0	-6.011	
0.1	6.142	
0.2	10.566	
0.3	12.883	
0.4	13.761	
0.5	13.327	
0.6	12.079	
0.7	10.016	
0.8	6.877	
0.9	2.652	
1	-2.376	
1.1	-6.016	

1.2	-5.890	
1.3	-3.858	
1.4	-1.928	
1.5	-1.250	0.598
1.6	-1.977	-0.103
1.7	-4.363	-0.761
1.8	-9.436	-1.382
1.9	-17.925	-1.969
2	-12.365	-2.526
2.1	-9.189	-3.055
2.2	-9.862	-3.561
2.3	-13.198	-4.043
2.4	-19.020	-4.505
2.5	-17.573	-4.949
2.6	-14.859	-5.374
2.7	-15.032	-5.784
2.8	-18.431	-6.179
2.9	-25.782	-6.560
3	-21.152	-6.928
3.1	-17.594	-7.284
3.2	-17.746	-7.629
3.3	-19.765	-7.963
3.4	-23.548	-8.287
3.5	-21.731	-8.602
3.6	-20.654	-8.908
3.7	-20.017	-9.205
3.8	-18.489	-9.495
3.9	-16.329	-9.777
4	-14.599	-10.051
4.1	-13.946	-10.320
4.2	-14.607	-10.581
4.3	-16.822	-10.837
4.4	-20.044	-11.086
4.5	-21.925	-11.330
4.6	-18.040	-11.569
4.7	-17.327	-11.802
4.8	-18.023	-12.031
4.9	-20.250	-12.255
5	-23.444	-12.474
5.1	-25.588	-12.689
5.2	-25.793	-12.900

5.3	-26.738	-13.107
5.4	-28.039	-13.310
5.5	-28.321	-13.509
5.6	-28.197	-13.705
5.7	-30.743	-13.897
5.8	-38.568	-14.086
5.9	-35.237	-14.271
6	-30.848	-14.454
6.1	-29.493	-14.633
6.2	-29.053	-14.810
6.3	-28.480	-14.984
6.4	-26.677	-15.154
6.5	-24.551	-15.323
6.6	-23.214	-15.489
6.7	-22.960	-15.652
6.8	-22.837	-15.813
6.9	-22.219	-15.971
7	-21.642	-16.127

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



-18.37 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's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -18.37 dBW/ 4kHz*



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

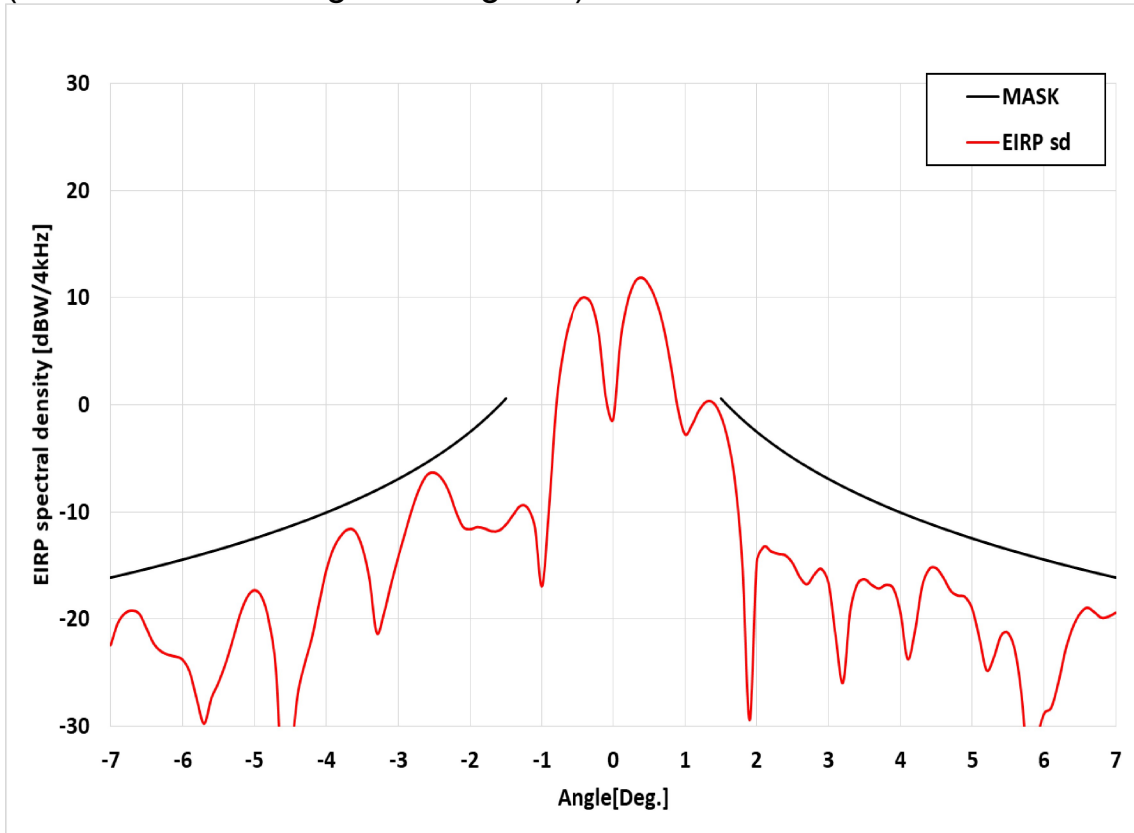
F=14.5GHz, -18.37 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
-7	-33.252	-16.127
-6.9	-32.758	-15.971
-6.8	-32.281	-15.813
-6.7	-31.992	-15.652
-6.6	-31.822	-15.489
-6.5	-31.609	-15.323
-6.4	-31.403	-15.154
-6.3	-31.574	-14.984
-6.2	-32.677	-14.810
-6.1	-35.269	-14.633
-6	-38.461	-14.454
-5.9	-32.997	-14.271
-5.8	-28.015	-14.086
-5.7	-24.530	-13.897
-5.6	-22.095	-13.705
-5.5	-20.419	-13.509
-5.4	-19.318	-13.310
-5.3	-18.656	-13.107
-5.2	-18.304	-12.900
-5.1	-18.121	-12.689
-5	-17.939	-12.474
-4.9	-17.594	-12.255
-4.8	-17.006	-12.031
-4.7	-16.245	-11.802
-4.6	-15.477	-11.569
-4.5	-14.878	-11.330
-4.4	-14.573	-11.086
-4.3	-14.624	-10.837
-4.2	-15.009	-10.581
-4.1	-15.562	-10.320
-4	-15.935	-10.051
-3.9	-15.806	-9.777
-3.8	-15.282	-9.495
-3.7	-14.801	-9.205
-3.6	-14.715	-8.908
-3.5	-15.136	-8.602
-3.4	-15.849	-8.287
-3.3	-15.127	-7.963
-3.2	-13.268	-7.629
-3.1	-11.730	-7.284
-3	-10.346	-6.928

-2.9	-9.494	-6.560
-2.8	-9.264	-6.179
-2.7	-9.670	-5.784
-2.6	-10.722	-5.374
-2.5	-12.448	-4.949
-2.4	-14.873	-4.505
-2.3	-17.855	-4.043
-2.2	-20.471	-3.561
-2.1	-21.113	-3.055
-2	-20.532	-2.526
-1.9	-20.413	-1.969
-1.8	-21.327	-1.382
-1.7	-22.752	-0.761
-1.6	-18.651	-0.103
-1.5	-14.841	0.598
-1.4	-11.376	
-1.3	-8.872	
-1.2	-7.236	
-1.1	-6.369	
-1	-6.229	
-0.9	-6.815	
-0.8	-8.104	
-0.7	-9.718	
-0.6	-10.142	
-0.5	-8.291	
-0.4	-5.782	
-0.3	-3.732	
-0.2	-2.327	
-0.1	-1.537	
0	-1.338	
0.1	-1.727	
0.2	-2.741	
0.3	-4.455	
0.4	-7.002	
0.5	-10.612	
0.6	-15.771	
0.7	-23.703	
0.8	-27.142	
0.9	-20.625	
1	-16.666	
1.1	-14.119	

1.2	-12.625	
1.3	-12.088	
1.4	-12.487	
1.5	-13.878	0.598
1.6	-16.472	-0.103
1.7	-20.885	-0.761
1.8	-29.450	-1.382
1.9	-31.479	-1.969
2	-23.754	-2.526
2.1	-20.371	-3.055
2.2	-18.620	-3.561
2.3	-17.966	-4.043
2.4	-18.422	-4.505
2.5	-20.191	-4.949
2.6	-23.247	-5.374
2.7	-24.661	-5.784
2.8	-21.931	-6.179
2.9	-19.524	-6.560
3	-18.421	-6.928
3.1	-18.240	-7.284
3.2	-18.453	-7.629
3.3	-18.635	-7.963
3.4	-18.879	-8.287
3.5	-19.761	-8.602
3.6	-22.087	-8.908
3.7	-27.532	-9.205
3.8	-37.596	-9.495
3.9	-26.218	-9.777
4	-21.985	-10.051
4.1	-20.592	-10.320
4.2	-20.950	-10.581
4.3	-22.677	-10.837
4.4	-25.374	-11.086
4.5	-28.268	-11.330
4.6	-31.144	-11.569
4.7	-35.591	-11.802
4.8	-35.395	-12.031
4.9	-28.983	-12.255
5	-25.342	-12.474
5.1	-23.713	-12.689
5.2	-23.555	-12.900

5.3	-24.594	-13.107
5.4	-26.473	-13.310
5.5	-28.343	-13.509
5.6	-29.310	-13.705
5.7	-29.907	-13.897
5.8	-30.705	-14.086
5.9	-30.559	-14.271
6	-28.848	-14.454
6.1	-27.257	-14.633
6.2	-26.767	-14.810
6.3	-27.499	-14.984
6.4	-28.957	-15.154
6.5	-29.387	-15.323
6.6	-27.937	-15.489
6.7	-26.441	-15.652
6.8	-25.894	-15.813
6.9	-26.404	-15.971
7	-27.771	-16.127

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



-18.37 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's Ku-band Radiation pattern meets the FCC EIRP spectral density mask when the input powers spectral density is @ -18.37 dBW/ 4kHz*

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

F=14.5GHz, -18.37 dBW/4kHz EIRP sd		
Angle	Value [dBi]	Mask
-7	-22.444	-16.127
-6.9	-20.378	-15.971
-6.8	-19.467	-15.813
-6.7	-19.217	-15.652
-6.6	-19.530	-15.489
-6.5	-20.900	-15.323
-6.4	-22.301	-15.154
-6.3	-23.007	-14.984
-6.2	-23.338	-14.810
-6.1	-23.501	-14.633
-6	-23.795	-14.454
-5.9	-24.959	-14.271
-5.8	-27.528	-14.086
-5.7	-29.769	-13.897
-5.6	-27.421	-13.705
-5.5	-25.934	-13.509
-5.4	-24.130	-13.310
-5.3	-21.911	-13.107
-5.2	-19.562	-12.900
-5.1	-17.944	-12.689
-5	-17.315	-12.474
-4.9	-17.911	-12.255
-4.8	-20.157	-12.031
-4.7	-24.787	-11.802
-4.6	-36.979	-11.569
-4.5	-33.294	-11.330
-4.4	-27.153	-11.086
-4.3	-24.168	-10.837
-4.2	-21.719	-10.581
-4.1	-18.515	-10.320
-4	-15.432	-10.051
-3.9	-13.400	-9.777
-3.8	-12.257	-9.495
-3.7	-11.640	-9.205
-3.6	-11.811	-8.908
-3.5	-13.312	-8.602
-3.4	-16.295	-8.287
-3.3	-21.275	-7.963
-3.2	-19.502	-7.629
-3.1	-16.763	-7.284
-3	-14.217	-6.928

-2.9	-11.844	-6.560
-2.8	-9.571	-6.179
-2.7	-7.726	-5.784
-2.6	-6.560	-5.374
-2.5	-6.343	-4.949
-2.4	-6.845	-4.505
-2.3	-8.025	-4.043
-2.2	-9.919	-3.561
-2.1	-11.378	-3.055
-2	-11.616	-2.526
-1.9	-11.414	-1.969
-1.8	-11.544	-1.382
-1.7	-11.814	-0.761
-1.6	-11.741	-0.103
-1.5	-11.178	0.598
-1.4	-10.262	
-1.3	-9.434	
-1.2	-9.629	
-1.1	-11.391	
-1	-16.930	
-0.9	-9.392	
-0.8	0.003	
-0.7	5.042	
-0.6	8.025	
-0.5	9.541	
-0.4	10.034	
-0.3	9.390	
-0.2	6.547	
-0.1	0.575	
0	-1.339	
0.1	5.861	
0.2	9.574	
0.3	11.447	
0.4	11.869	
0.5	11.163	
0.6	9.663	
0.7	7.287	
0.8	3.796	
0.9	-0.317	
1	-2.741	
1.1	-1.850	

1.2	-0.473	
1.3	0.301	
1.4	0.151	
1.5	-1.043	0.598
1.6	-3.385	-0.103
1.7	-7.405	-0.761
1.8	-15.063	-1.382
1.9	-29.432	-1.969
2	-14.657	-2.526
2.1	-13.233	-3.055
2.2	-13.691	-3.561
2.3	-13.919	-4.043
2.4	-14.064	-4.505
2.5	-14.797	-4.949
2.6	-16.103	-5.374
2.7	-16.755	-5.784
2.8	-15.857	-6.179
2.9	-15.323	-6.560
3	-16.681	-6.928
3.1	-21.736	-7.284
3.2	-25.944	-7.629
3.3	-19.325	-7.963
3.4	-16.728	-8.287
3.5	-16.292	-8.602
3.6	-16.815	-8.908
3.7	-17.152	-9.205
3.8	-16.815	-9.495
3.9	-17.123	-9.777
4	-19.408	-10.051
4.1	-23.717	-10.320
4.2	-21.215	-10.581
4.3	-17.025	-10.837
4.4	-15.349	-11.086
4.5	-15.259	-11.330
4.6	-16.161	-11.569
4.7	-17.364	-11.802
4.8	-17.809	-12.031
4.9	-17.947	-12.255
5	-19.066	-12.474
5.1	-21.783	-12.689
5.2	-24.795	-12.900

5.3	-23.595	-13.107
5.4	-21.555	-13.310
5.5	-21.303	-13.509
5.6	-23.092	-13.705
5.7	-27.976	-13.897
5.8	-36.349	-14.086
5.9	-31.410	-14.271
6	-28.847	-14.454
6.1	-28.277	-14.633
6.2	-25.927	-14.810
6.3	-22.869	-14.984
6.4	-20.775	-15.154
6.5	-19.505	-15.323
6.6	-18.944	-15.489
6.7	-19.363	-15.652
6.8	-19.881	-15.813
6.9	-19.771	-15.971
7	-19.403	-16.127