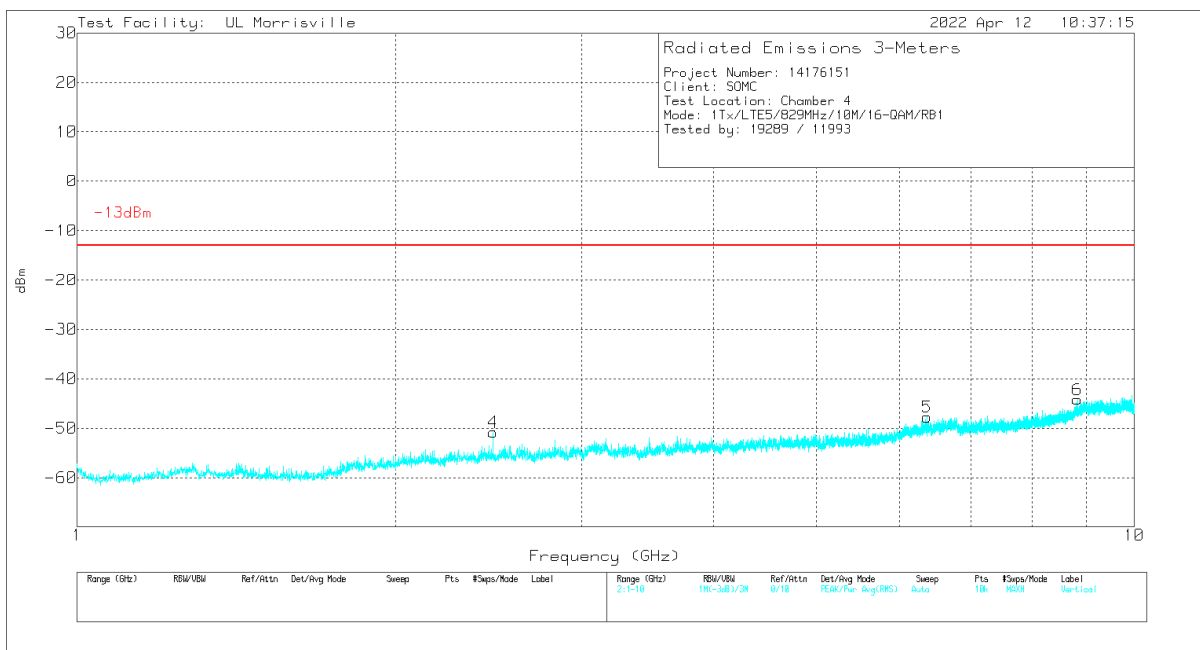
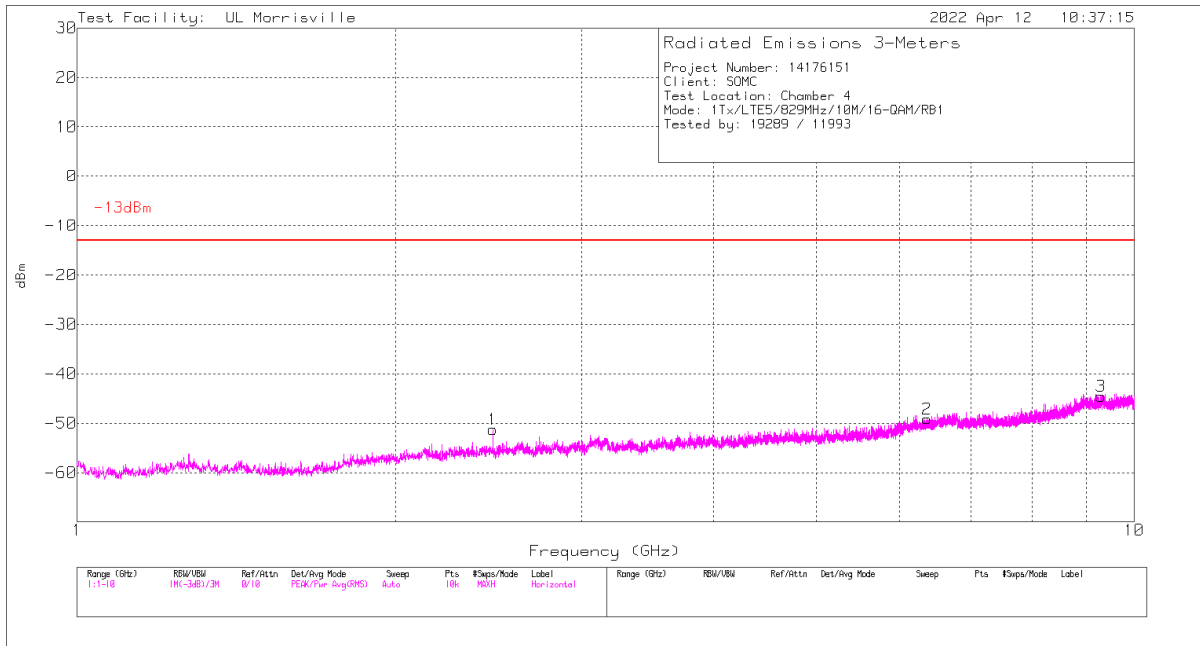


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.3995	-60.84	Pk	31.9	-36.7	.4	11.8	-53.44	-13	-40.44	0-360	100	H
4	2.6659	-60.05	Pk	32.1	-36.5	.5	11.8	-52.15	-13	-39.15	0-360	200	V
5	6.4864	-66.09	Pk	35.4	-29.8	.7	11.8	-47.99	-13	-34.99	0-360	200	V
2	6.7834	-66.08	Pk	35.4	-29.6	.7	11.8	-47.78	-13	-34.78	0-360	100	H
3	9.3493	-66.13	Pk	36.5	-26.6	.8	11.8	-43.63	-13	-30.63	0-360	200	H
6	9.5095	-65.81	Pk	36.5	-26.9	.9	11.8	-43.51	-13	-30.51	0-360	300	V

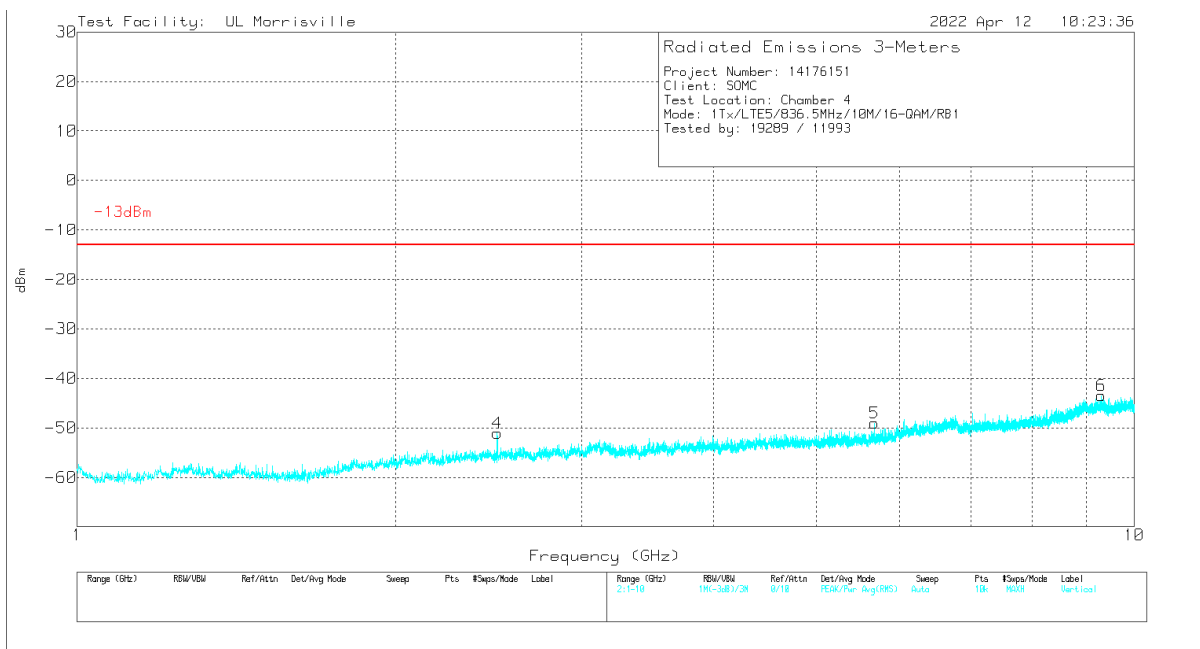
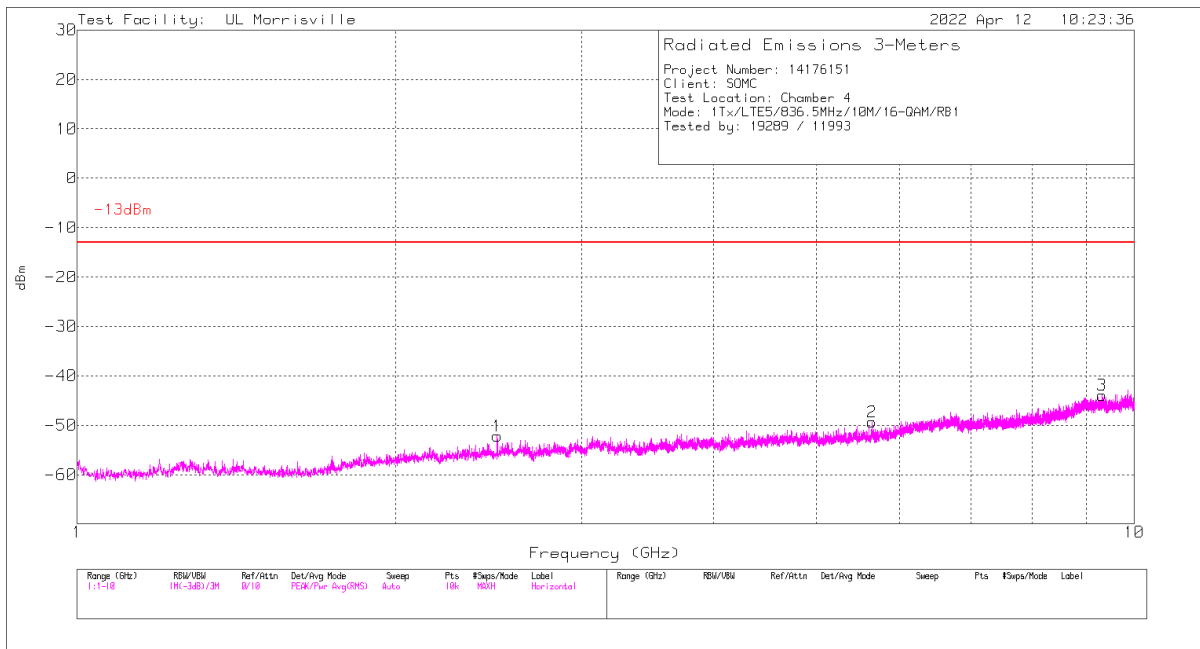
Pk - Peak detector

**16QAM LTE5 (10MHz)**



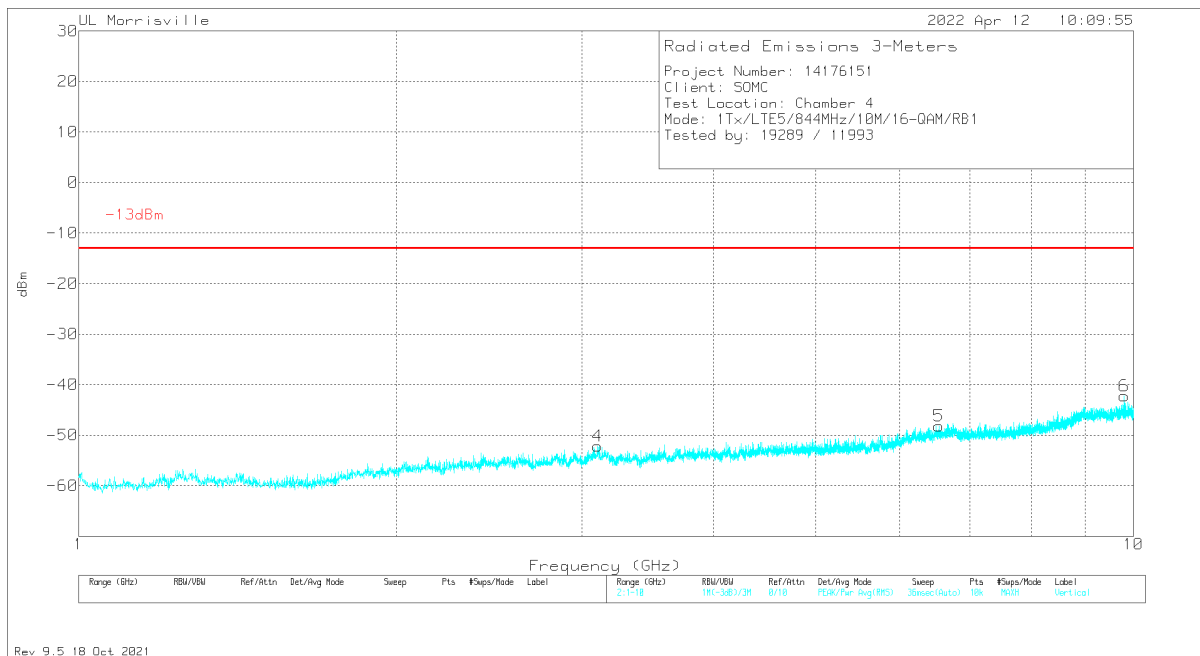
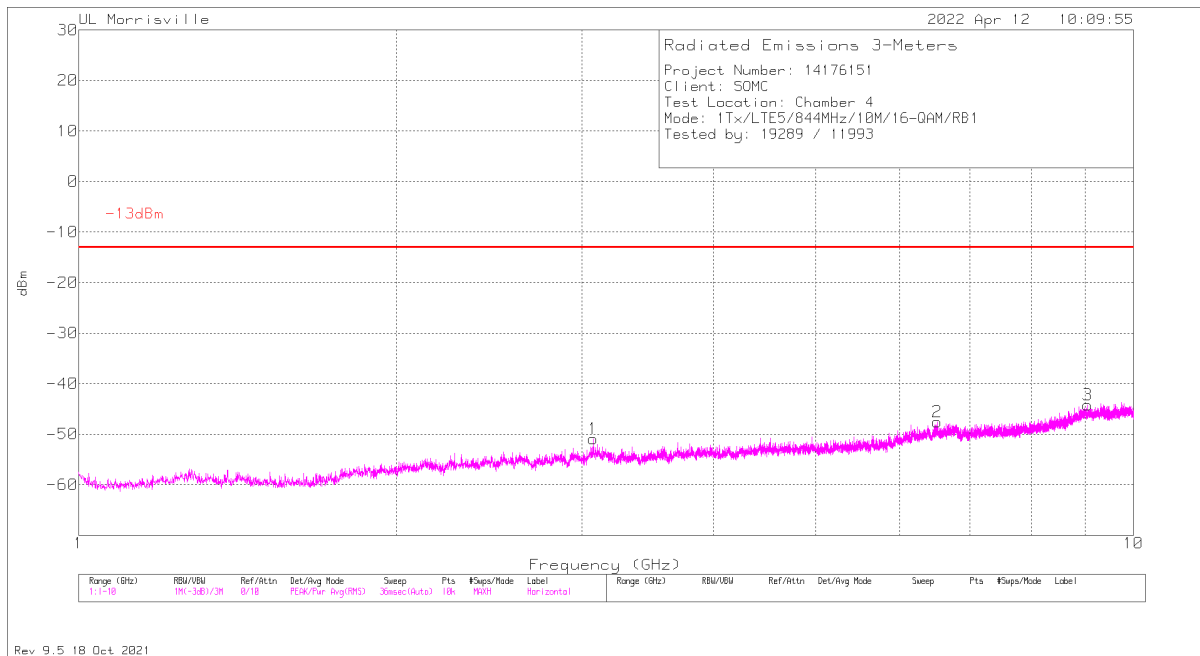
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cb/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.4733	-58.86	Pk	32.1	-36.7	.4	11.8	-51.26	-13	-38.26	0-360	100	H
4	2.4742	-58.44	Pk	32.1	-36.7	.4	11.8	-50.84	-13	-37.84	0-360	200	V
2	6.3658	-66.91	Pk	35.4	-30.2	.8	11.8	-49.11	-13	-36.11	0-360	100	H
5	6.3667	-65.49	Pk	35.4	-30.2	.8	11.8	-47.69	-13	-34.69	0-360	200	V
6	8.8336	-65.28	Pk	36	-27.2	.5	11.8	-44.18	-13	-31.18	0-360	200	V
3	9.2944	-66.3	Pk	36.4	-26.9	.5	11.8	-44.5	-13	-31.5	0-360	100	H

Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.4958	-59.84	Pk	32.2	-36.7	.4	11.8	-52.14	-13	-39.14	0-360	200	H
4	2.4958	-58.76	Pk	32.2	-36.7	.4	11.8	-51.06	-13	-38.06	0-360	200	V
2	5.6476	-64.16	Pk	34.5	-32	.5	11.8	-49.36	-13	-36.36	0-360	200	H
5	5.6764	-63.63	Pk	34.5	-32.1	.4	11.8	-49.03	-13	-36.03	0-360	300	V
6	9.3025	-65.26	Pk	36.4	-26.9	.5	11.8	-43.46	-13	-30.46	0-360	300	V
3	9.3214	-66	Pk	36.4	-26.7	.6	11.8	-43.9	-13	-30.9	0-360	100	H

Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.0763	-60.77	Pk	33.4	-36	.7	11.8	-50.87	-13	-37.87	0-360	100	H
4	3.1051	-62.47	Pk	33.9	-36	.6	11.8	-52.17	-13	-39.17	0-360	300	V
2	6.5188	-65.57	Pk	35.4	-29.9	.7	11.8	-47.57	-13	-34.57	0-360	200	H
5	6.5386	-66.17	Pk	35.4	-29.9	.7	11.8	-48.17	-13	-35.17	0-360	300	V
3	9.0541	-65.79	Pk	36.1	-26.9	.6	11.8	-44.19	-13	-31.19	0-360	200	H
6	9.8029	-64.97	Pk	37	-26.9	.8	11.8	-42.27	-13	-29.27	0-360	300	V

Pk - Peak detector

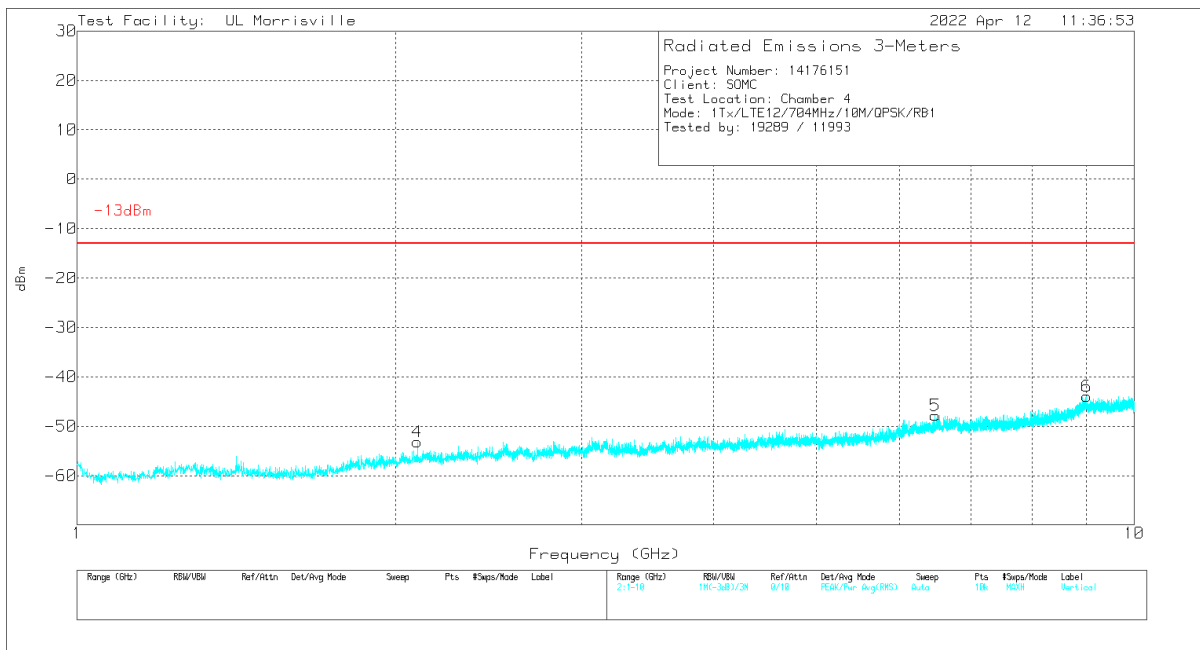
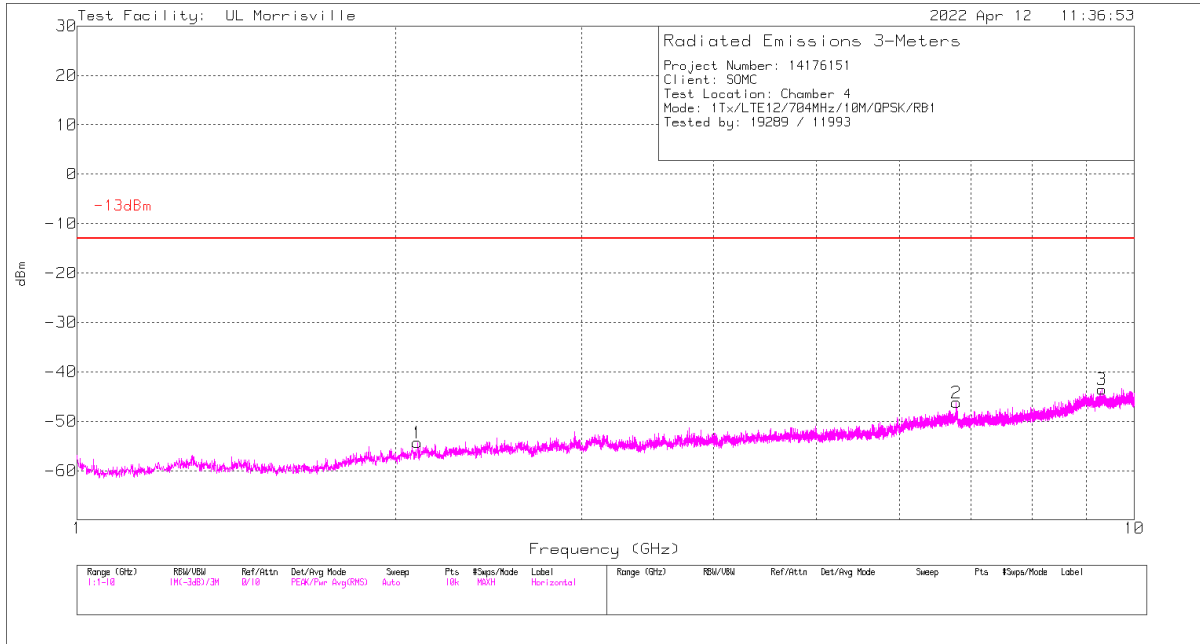
## 11.1.2. LTE12

### LIMITS

FCC: §27.53 (g)

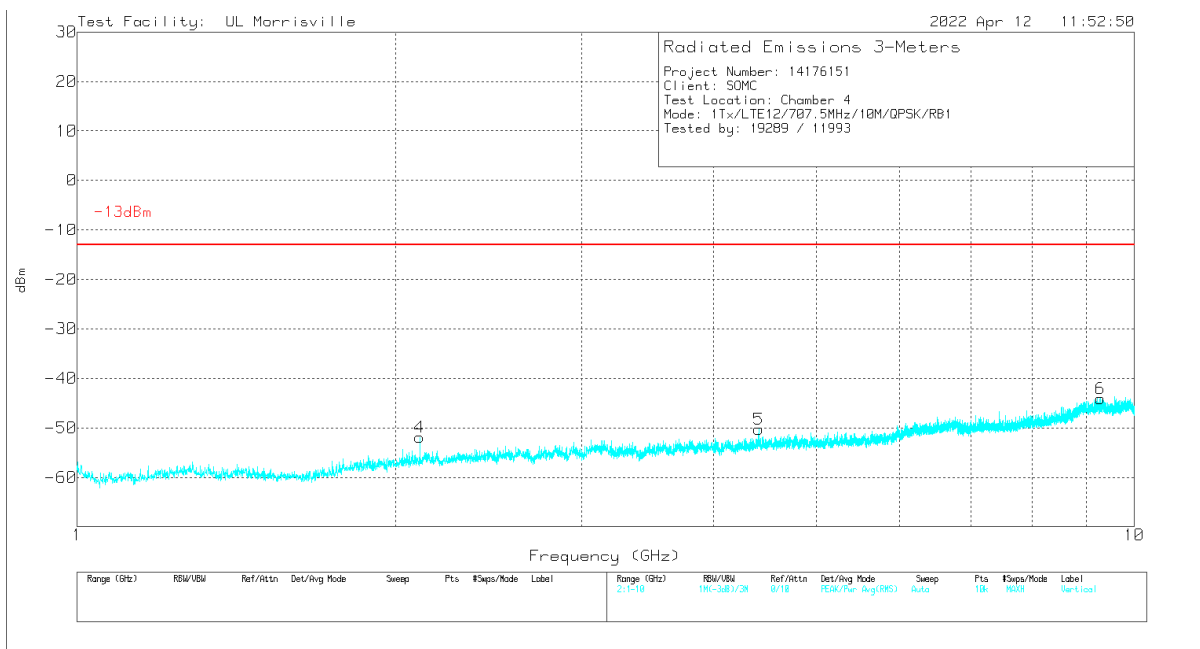
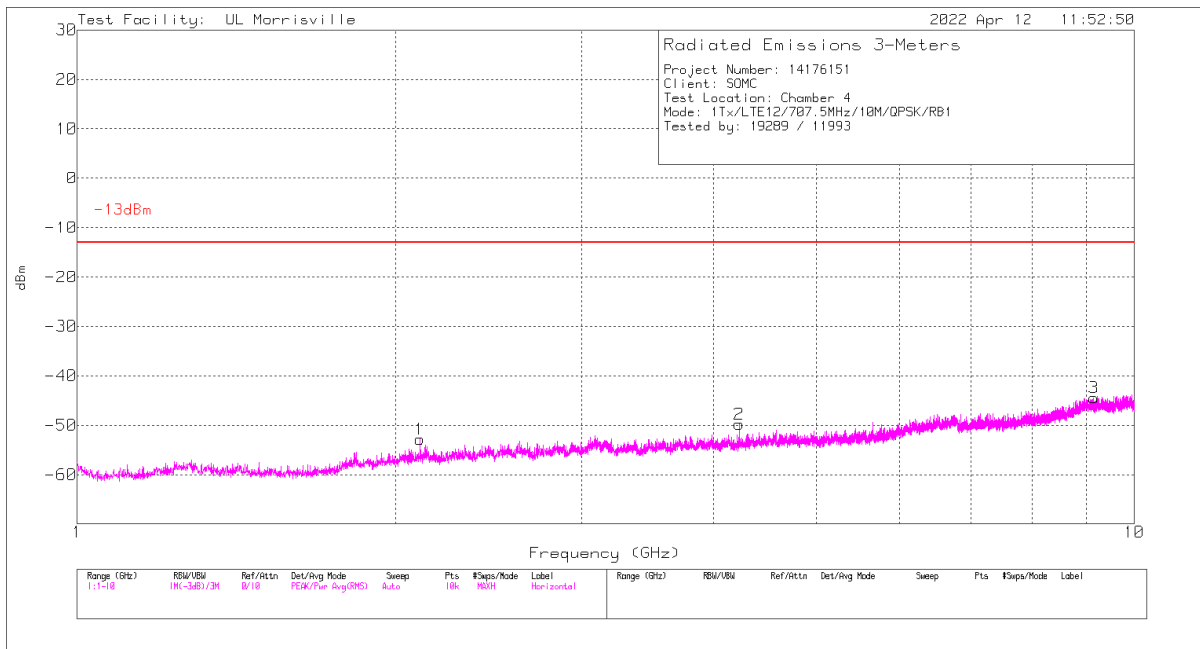
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

**QPSK LTE12 (10MHz)**



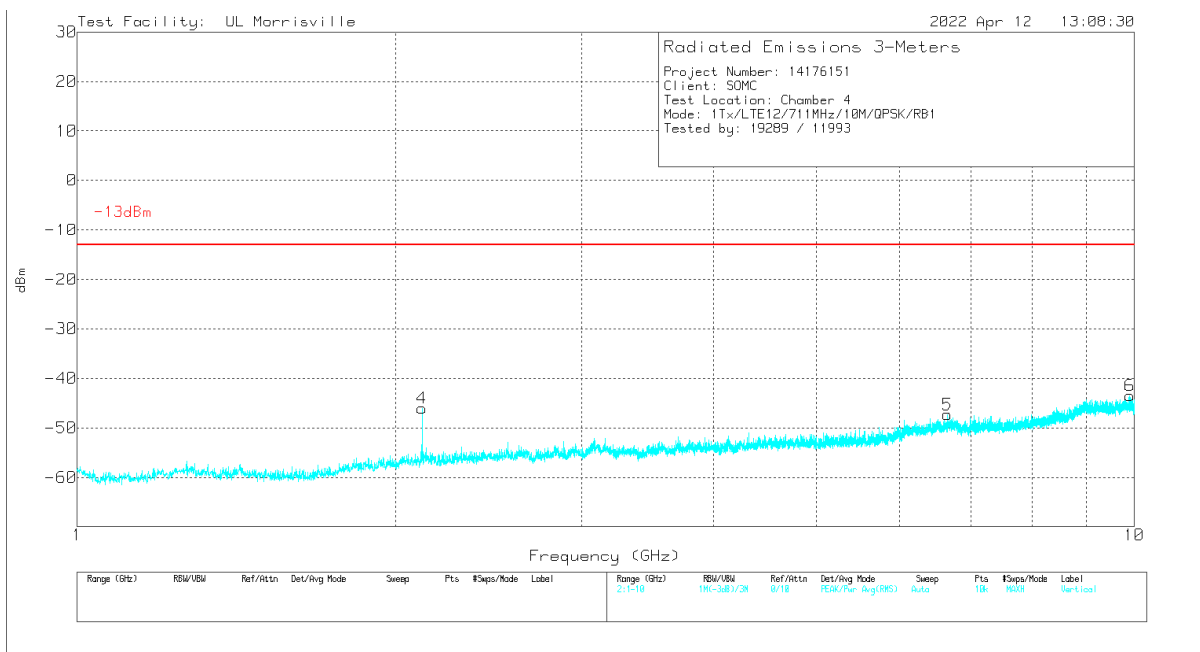
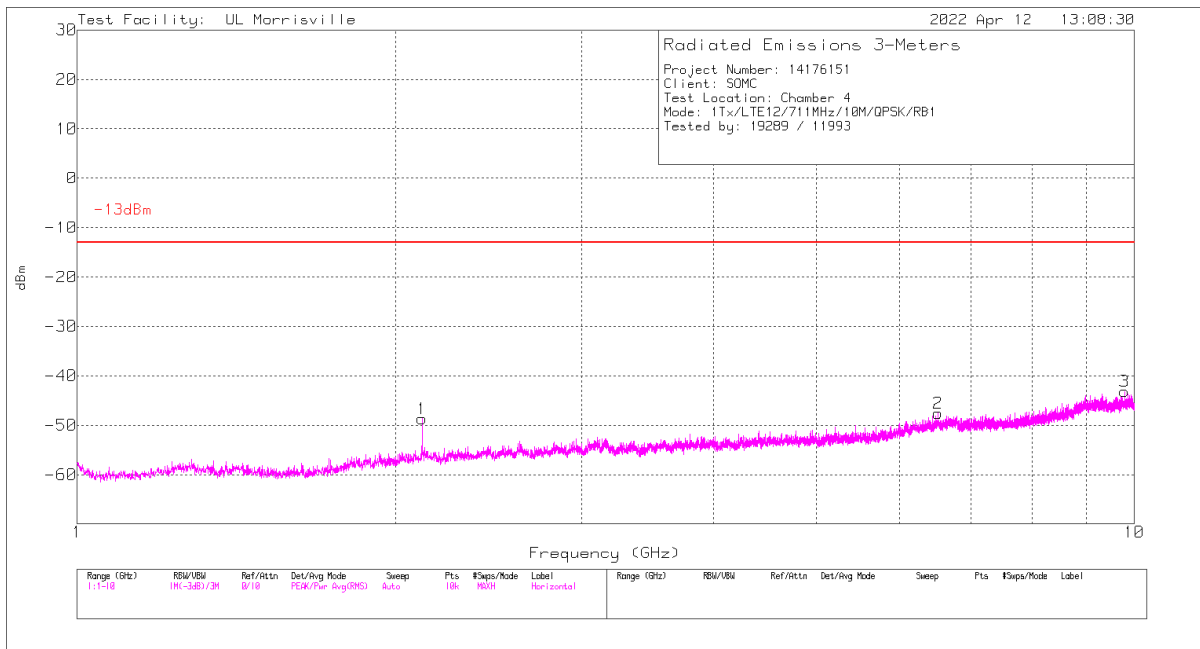
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cb/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.098	-61.23	Pk	31.5	-36.7	.3	11.8	-54.33	-13	-41.33	0-360	200	H
4	2.098	-60.06	Pk	31.5	-36.7	.3	11.8	-53.16	-13	-40.16	0-360	200	V
5	6.4792	-65.93	Pk	35.4	-29.8	.7	11.8	-47.83	-13	-34.83	0-360	200	V
2	6.7861	-64.51	Pk	35.4	-29.6	.7	11.8	-46.21	-13	-33.21	0-360	200	H
6	9.0109	-65.72	Pk	36.1	-26.5	.4	11.8	-43.92	-13	-30.92	0-360	300	V
3	9.3178	-65.64	Pk	36.4	-26.7	.6	11.8	-43.54	-13	-30.54	0-360	100	H

Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2.1088	-58.99	Pk	31.6	-36.7	.4	11.8	-51.89	-13	-38.89	0-360	200	V
1	2.1097	-59.88	Pk	31.6	-36.7	.4	11.8	-52.78	-13	-39.78	0-360	200	H
2	4.2283	-62.3	Pk	33.3	-33	.4	11.8	-49.8	-13	-36.8	0-360	100	H
5	4.4119	-63.25	Pk	33.6	-32.8	.4	11.8	-50.25	-13	-37.25	0-360	300	V
3	9.1513	-66.14	Pk	36.3	-26.9	.5	11.8	-44.44	-13	-31.44	0-360	100	H
6	9.2854	-65.83	Pk	36.4	-26.9	.5	11.8	-44.03	-13	-31.03	0-360	200	V

Pk - Peak detector

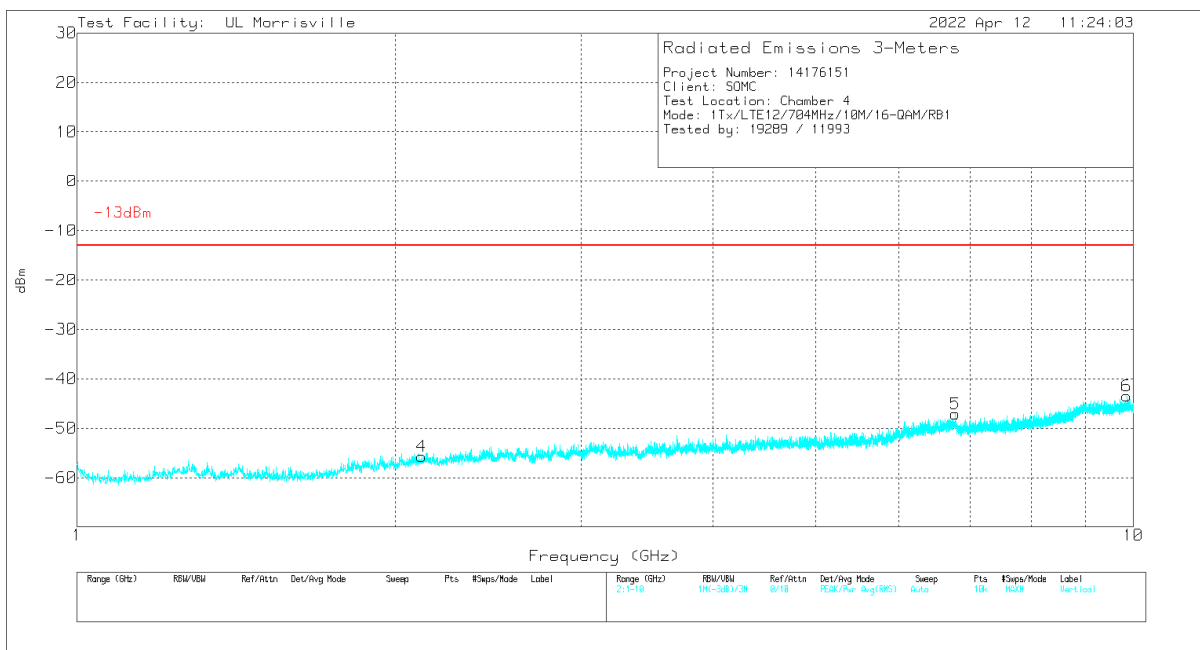
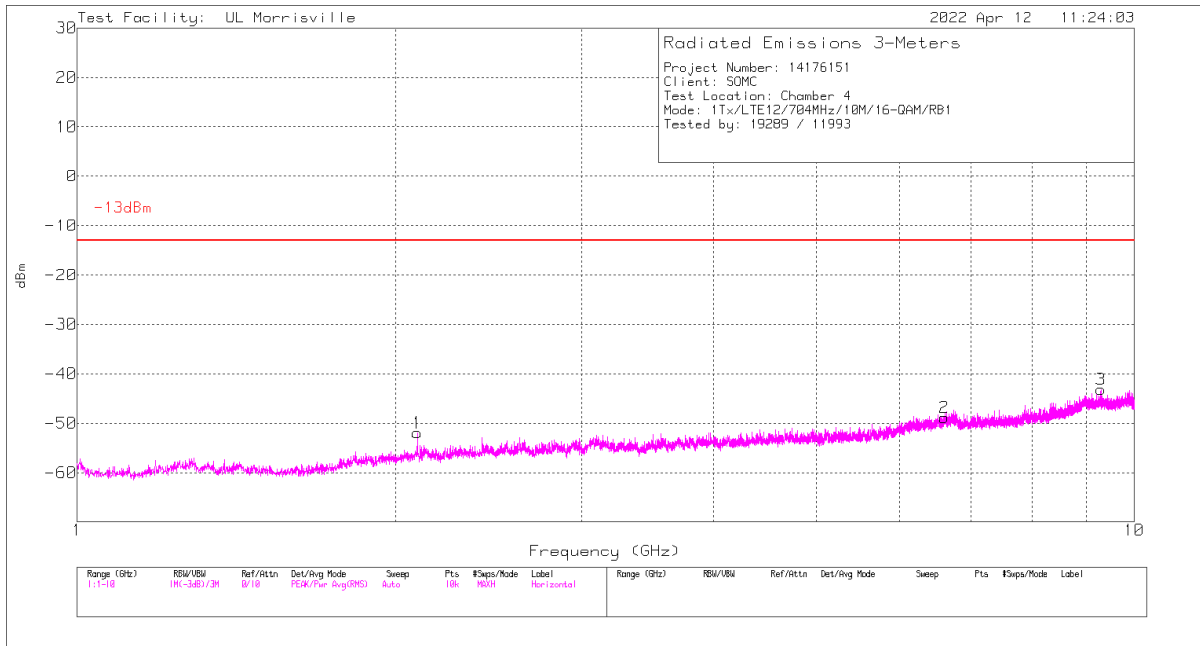


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.1196	-55.74	Pk	31.6	-36.7	.4	11.8	-48.64	-13	-35.64	0-360	200	H
4	2.1196	-53.13	Pk	31.6	-36.7	.4	11.8	-46.03	-13	-33.03	0-360	300	V
2	6.5188	-65.55	Pk	35.4	-29.9	.7	11.8	-47.55	-13	-34.55	0-360	200	H
5	6.6556	-65.34	Pk	35.4	-29.8	.6	11.8	-47.34	-13	-34.34	0-360	300	V
3	9.7885	-65.84	Pk	37	-27	.9	11.8	-43.14	-13	-30.14	0-360	100	H
6	9.9001	-65.99	Pk	37.1	-27.3	.9	11.8	-43.49	-13	-30.49	0-360	200	V

Pk - Peak detector

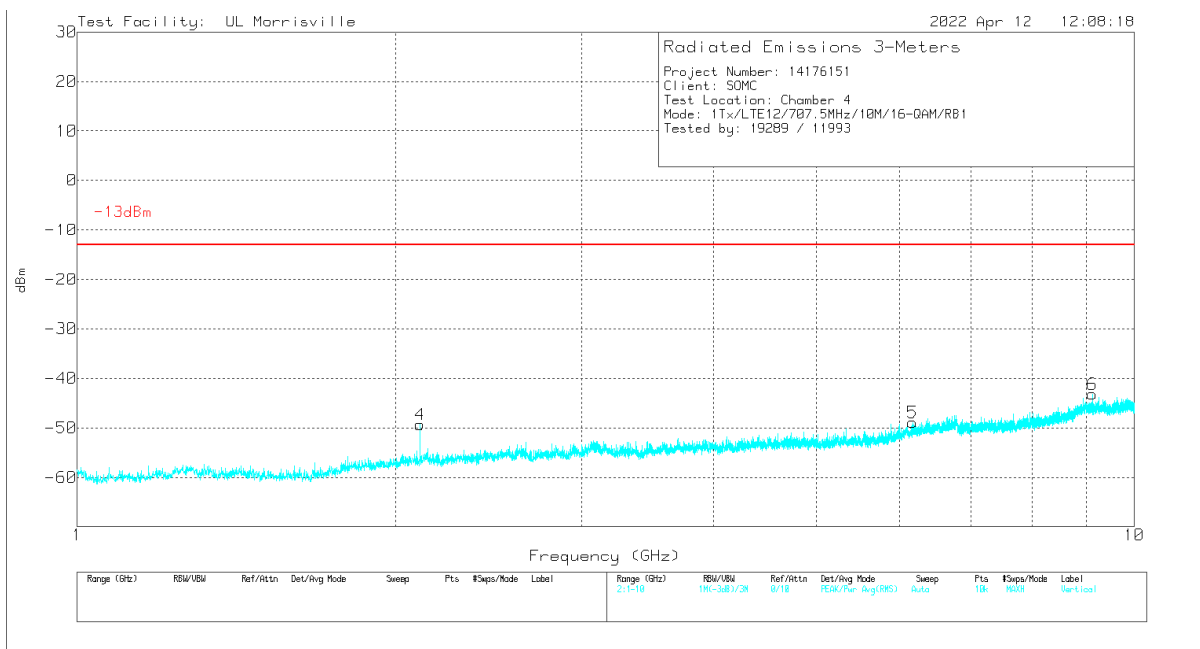
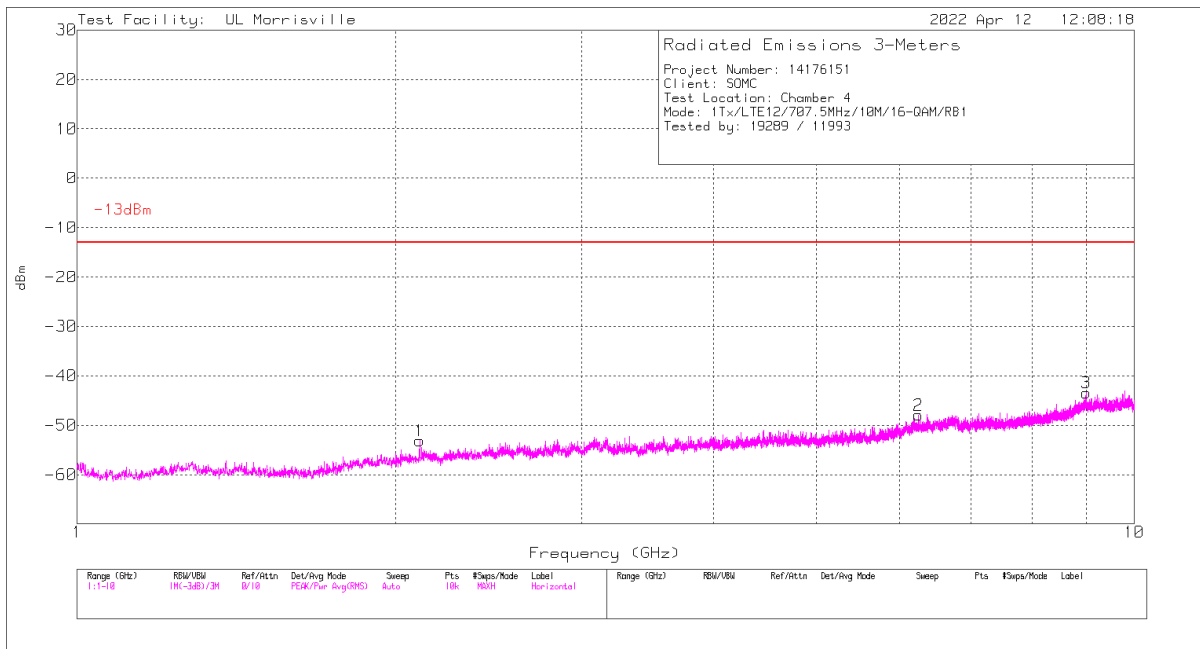


**16QAM LTE12 (10MHz)**



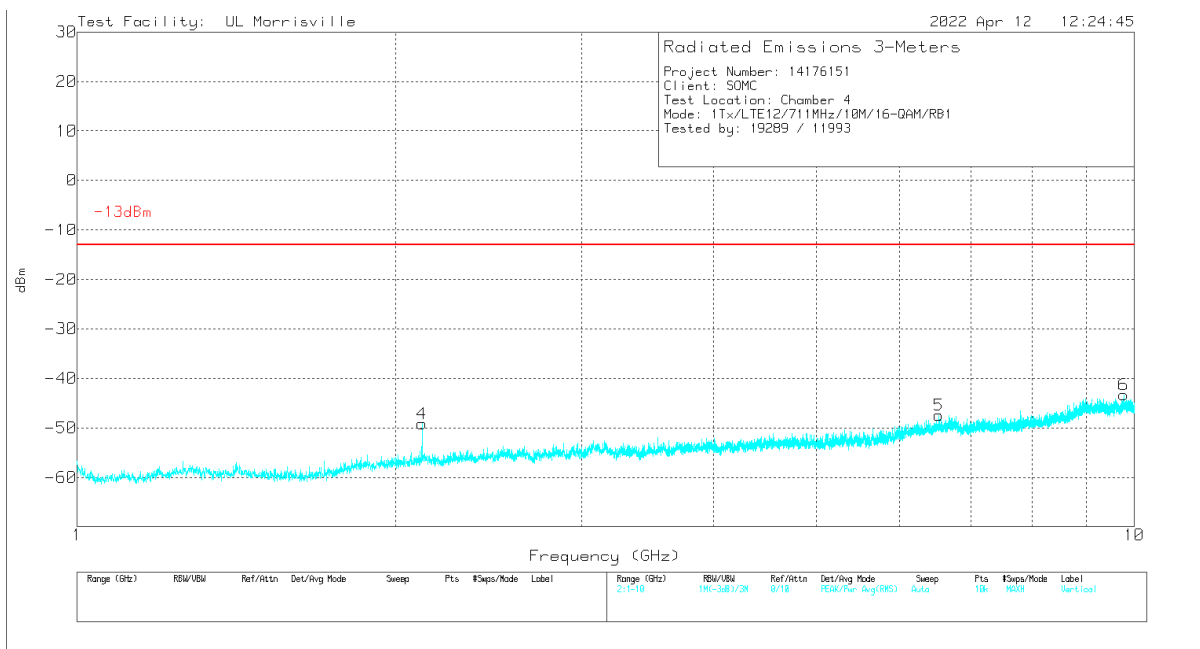
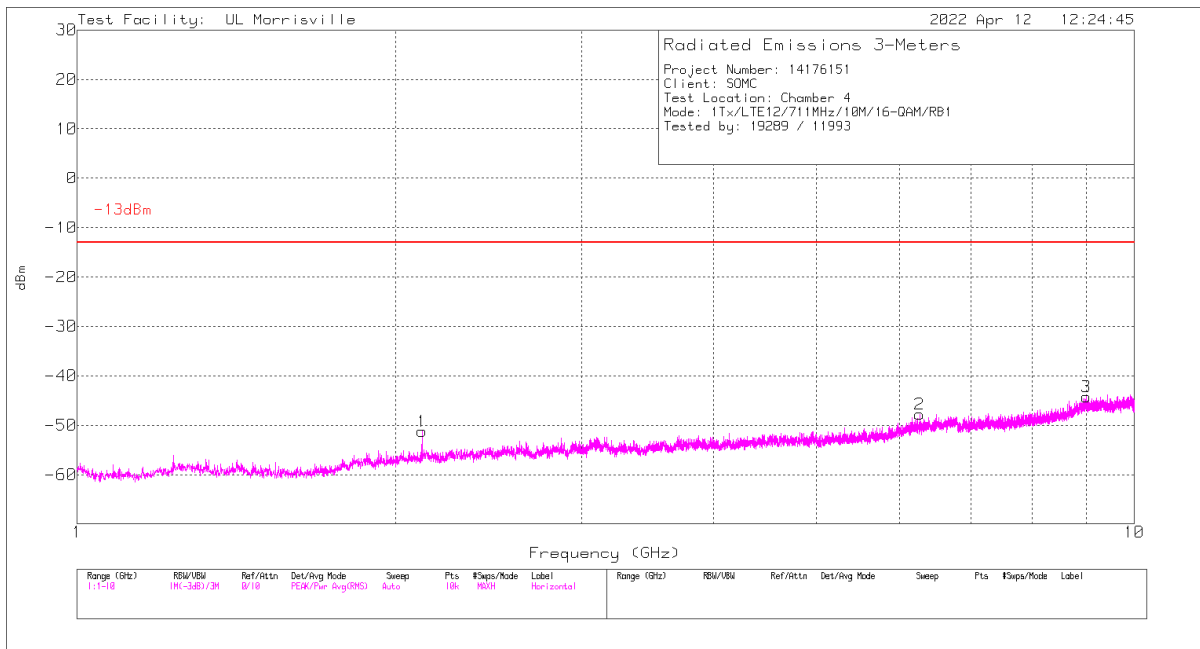
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cb/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.098	-58.84	Pk	31.5	-36.7	.3	11.8	-51.94	-13	-38.94	0-360	200	H
4	2.1196	-62.8	Pk	31.6	-36.7	.4	11.8	-55.7	-13	-42.7	0-360	300	V
2	6.6079	-66.71	Pk	35.4	-29.9	.6	11.8	-48.81	-13	-35.81	0-360	200	H
5	6.7825	-65.35	Pk	35.4	-29.6	.7	11.8	-47.05	-13	-34.05	0-360	200	V
3	9.2953	-64.96	Pk	36.4	-26.9	.5	11.8	-43.16	-13	-30.16	0-360	100	H
6	9.8569	-65.75	Pk	37	-27.1	.6	11.8	-43.45	-13	-30.45	0-360	300	V

Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.1088	-60.23	Pk	31.6	-36.7	.4	11.8	-53.13	-13	-40.13	0-360	100	H
4	2.1097	-56.42	Pk	31.6	-36.7	.4	11.8	-49.32	-13	-36.32	0-360	200	V
5	6.1705	-66.22	Pk	35.4	-30.5	.6	11.8	-48.92	-13	-35.92	0-360	300	V
2	6.2461	-65.55	Pk	35.5	-30.5	.8	11.8	-47.95	-13	-34.95	0-360	100	H
3	9.0037	-65.19	Pk	36	-26.5	.5	11.8	-43.39	-13	-30.39	0-360	100	H
6	9.1261	-65	Pk	36.3	-26.9	.6	11.8	-43.2	-13	-30.2	0-360	300	V

Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.1196	-58.32	Pk	31.6	-36.7	.4	11.8	-51.22	-13	-38.22	0-360	100	H
4	2.1196	-56.24	Pk	31.6	-36.7	.4	11.8	-49.14	-13	-36.14	0-360	300	V
2	6.2632	-65.29	Pk	35.5	-30.5	.7	11.8	-47.79	-13	-34.79	0-360	100	H
5	6.5314	-65.42	Pk	35.4	-29.9	.7	11.8	-47.42	-13	-34.42	0-360	300	V
3	9.0091	-66	Pk	36.1	-26.5	.4	11.8	-44.2	-13	-31.2	0-360	200	H
6	9.7723	-65.81	Pk	36.9	-27.1	.9	11.8	-43.31	-13	-30.31	0-360	300	V

Pk - Peak detector

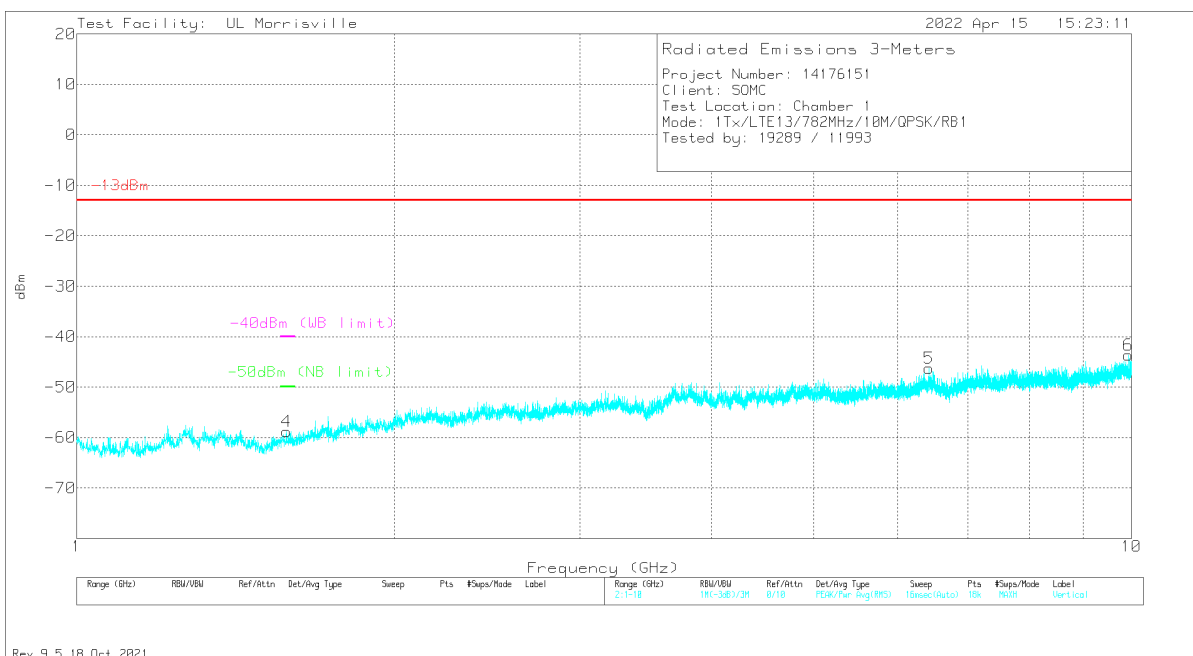
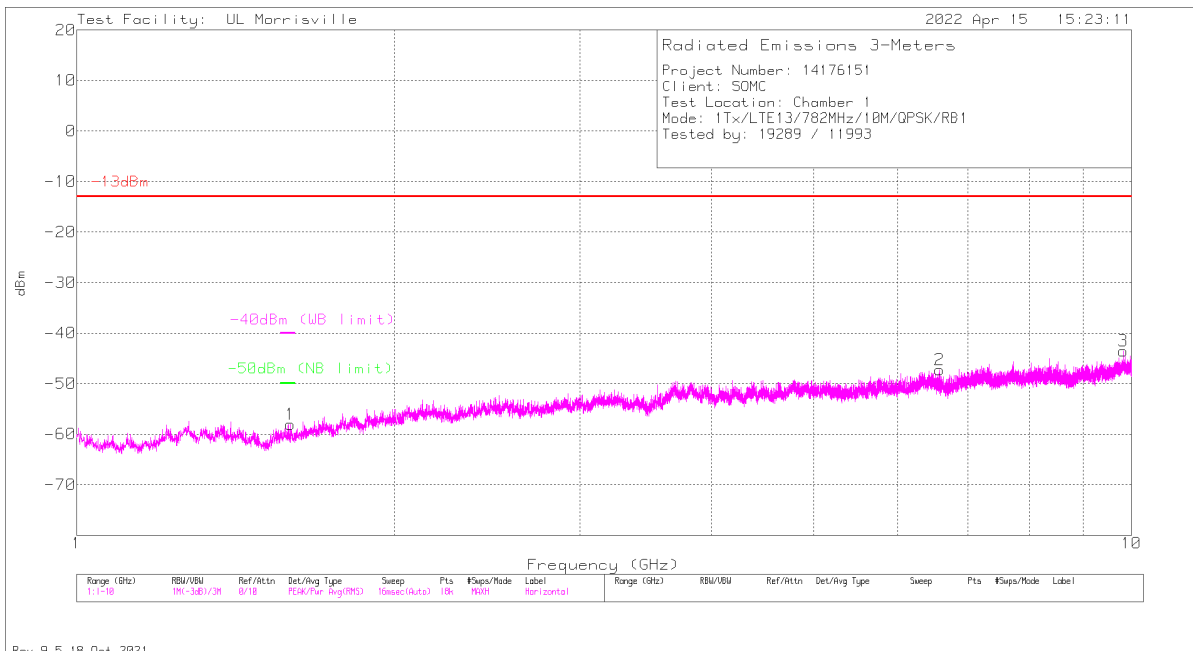
### 11.1.3. LTE13

#### LIMITS

FCC: §27.53 (c)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

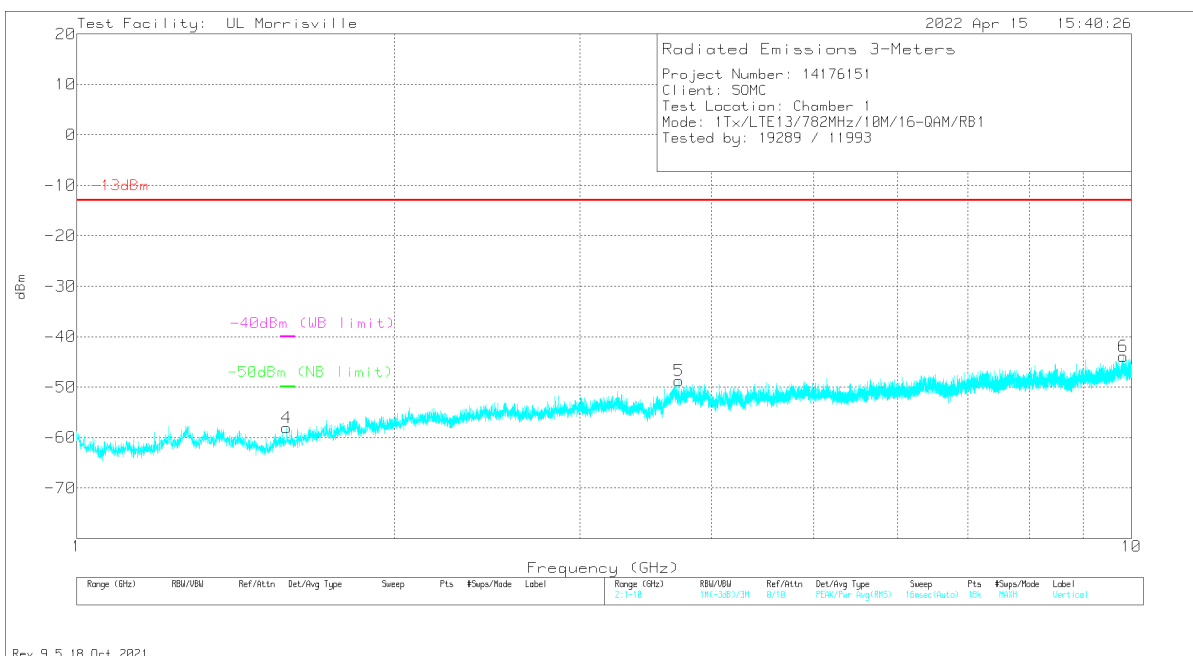
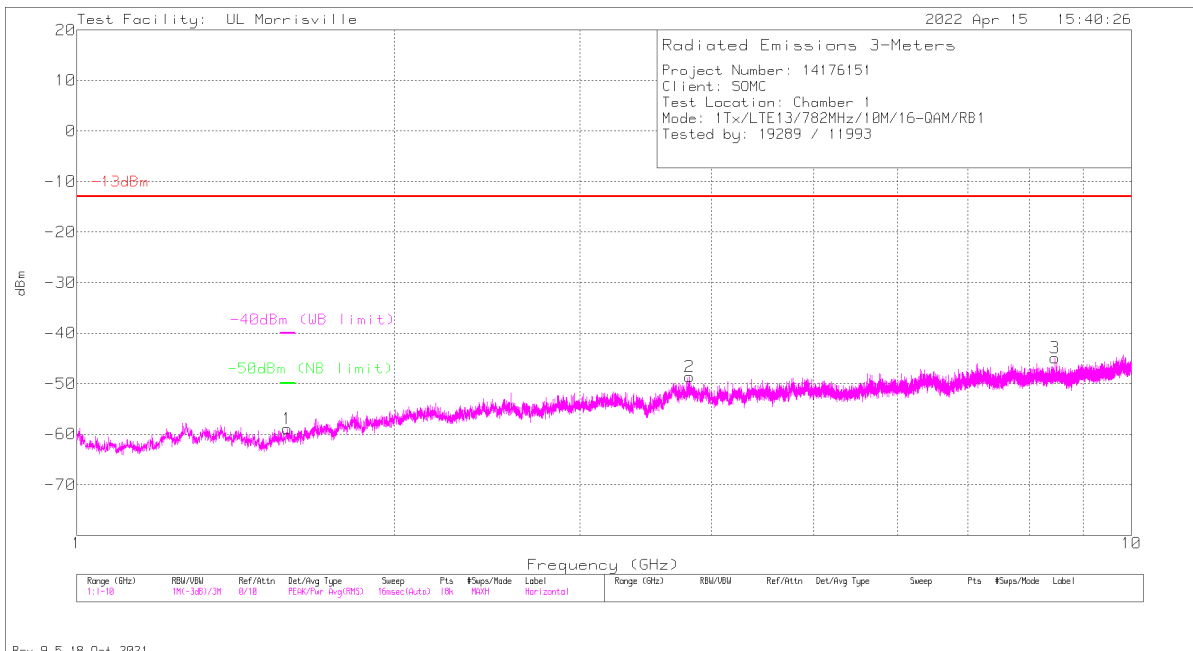
**QPSK LTE13 (10MHz)**



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	-40dBm (WB limit)	Margin (dB)	-50dBm (NB limit)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.58147	-63.35	Pk	28.2	-36	.6	11.8	-58.75	-13	-45.75	-40	-18.75	-50	-8.75	0-360	201	V
1	1.59497	-62.71	Pk	28.2	-35.8	.5	11.8	-58.01	-13	-45.01	-40	-18.01	-50	-8.01	0-360	101	H
5	6.4237	-63.03	Pk	35.5	-30.8	.3	11.8	-46.23	-13	-33.23	-	-	-	-	0-360	201	V
2	6.57869	-63.74	Pk	35.5	-31.1	.3	11.8	-47.24	-13	-34.24	-	-	-	-	0-360	200	H
3	9.82151	-64.66	Pk	36.8	-28.1	.6	11.8	-43.56	-13	-30.56	-	-	-	-	0-360	299	H
6	9.9265	-64.84	Pk	36.9	-27.9	.4	11.8	-43.64	-13	-30.64	-	-	-	-	0-360	201	V

Pk - Peak detector

**16QAM LTE13 (10MHz)**



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Amp/Cbl/Pad (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	-40dBm (WB limit)	Margin (dB)	-50dBm (NB limit)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.58197	-62.68	Pk	28.2	-36	.6	11.8	-58.08	-13	-45.08	-40	-18.08	-50	-8.08	0-360	300	V
1	1.58297	-63.59	Pk	28.2	-35.9	.6	11.8	-58.89	-13	-45.89	-40	-18.89	-50	-8.89	0-360	199	H
5	3.72235	-61.12	Pk	33.3	-33.1	.4	11.8	-48.72	-13	-35.72	-	-	-	-	0-360	101	V
2	3.80934	-61.21	Pk	33.2	-33	.6	11.8	-48.61	-13	-35.61	-	-	-	-	0-360	199	H
3	8.46058	-63.51	Pk	35.8	-29.3	.3	11.8	-44.91	-13	-31.91	-	-	-	-	0-360	101	H
6	9.82201	-65.14	Pk	36.8	-28	.6	11.8	-43.94	-13	-30.94	-	-	-	-	0-360	300	V

Pk - Peak detector

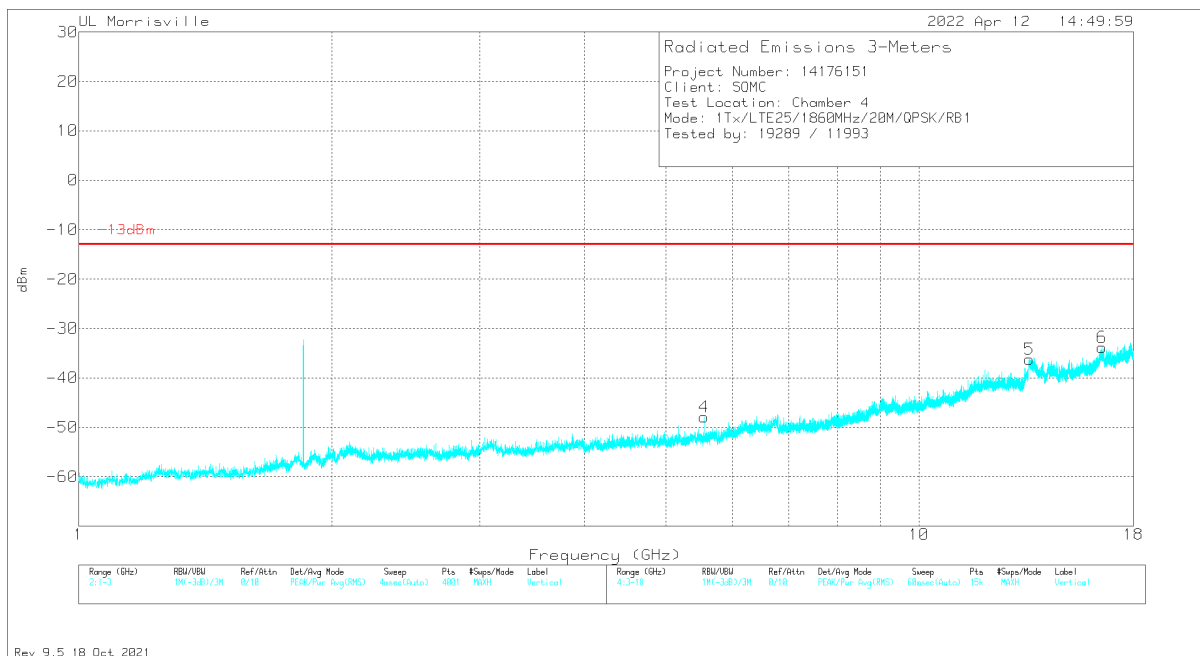
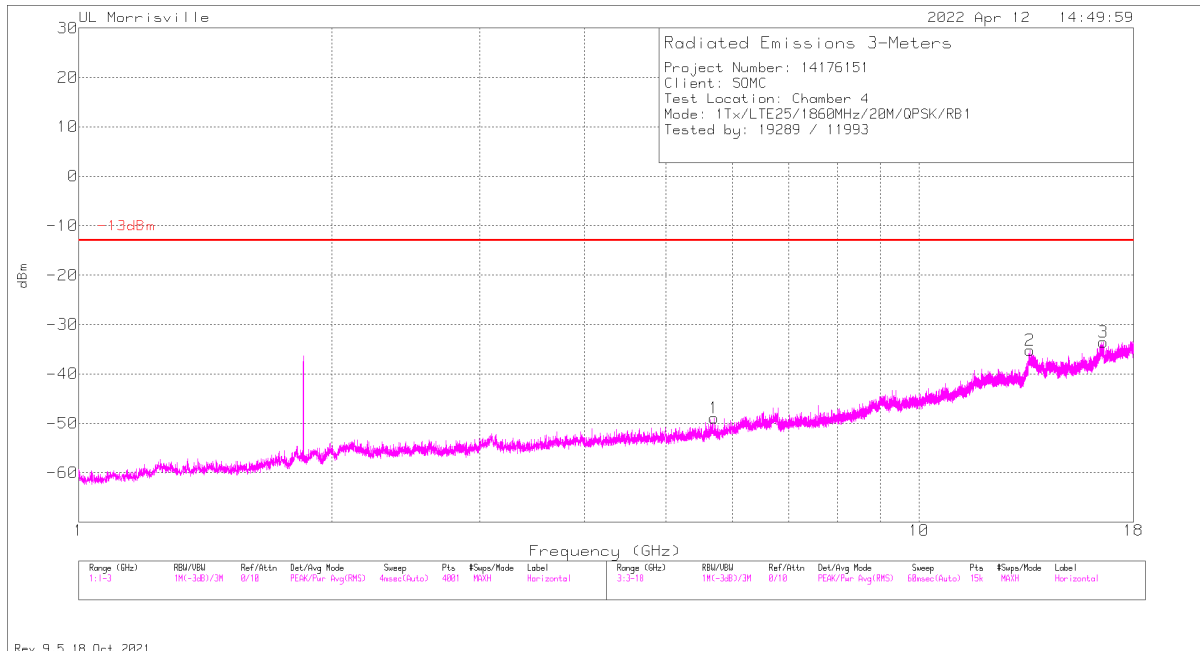
#### 11.1.4. LTE25

##### LIMITS

FCC: §24.238(a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

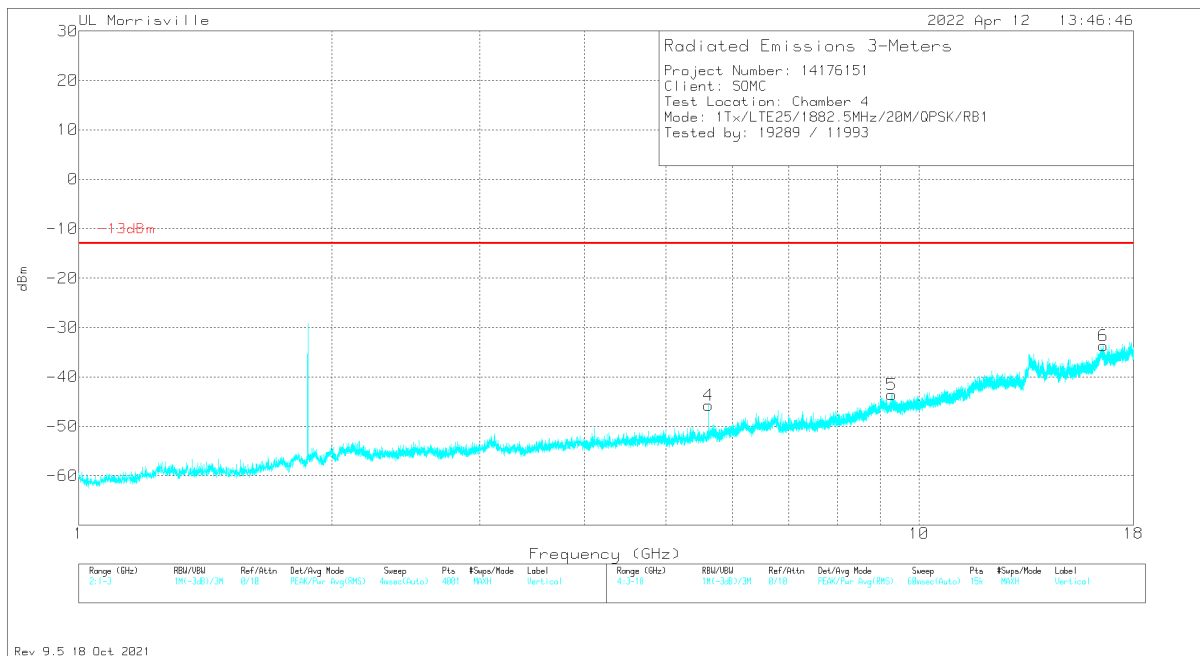
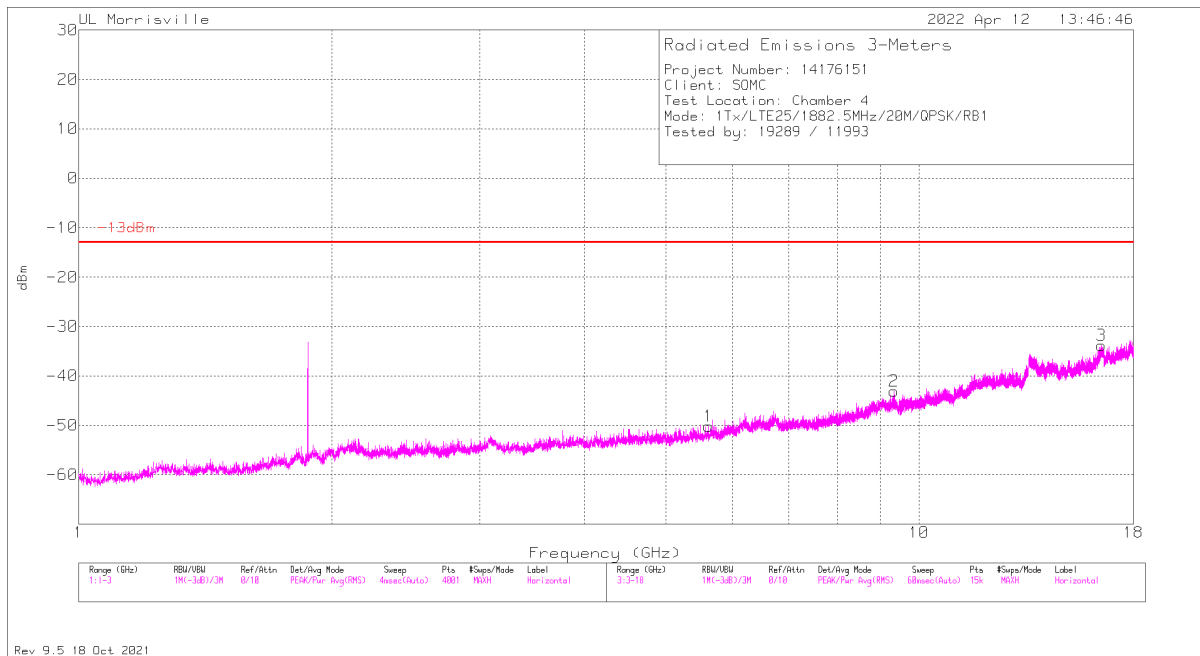
**QPSK LTE25 (20MHz)**



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	5.553	-61.96	Pk	34.5	-32.3	11.8	0	-47.96	-13	-34.96	0-360	200	V
1	5.705	-65	Pk	34.6	-30.3	11.8	0	-48.9	-13	-35.9	0-360	200	H
5	13.526	-64.26	Pk	38.7	-22.5	11.8	0	-36.26	-13	-23.26	0-360	300	V
2	13.557	-62.7	Pk	38.6	-22.9	11.8	0	-35.2	-13	-22.2	0-360	100	H
6	16.527	-65.47	Pk	41.1	-21.2	11.8	0	-33.77	-13	-20.77	0-360	300	V
3	16.563	-65.35	Pk	41.2	-21.2	11.8	0	-33.55	-13	-20.55	0-360	100	H

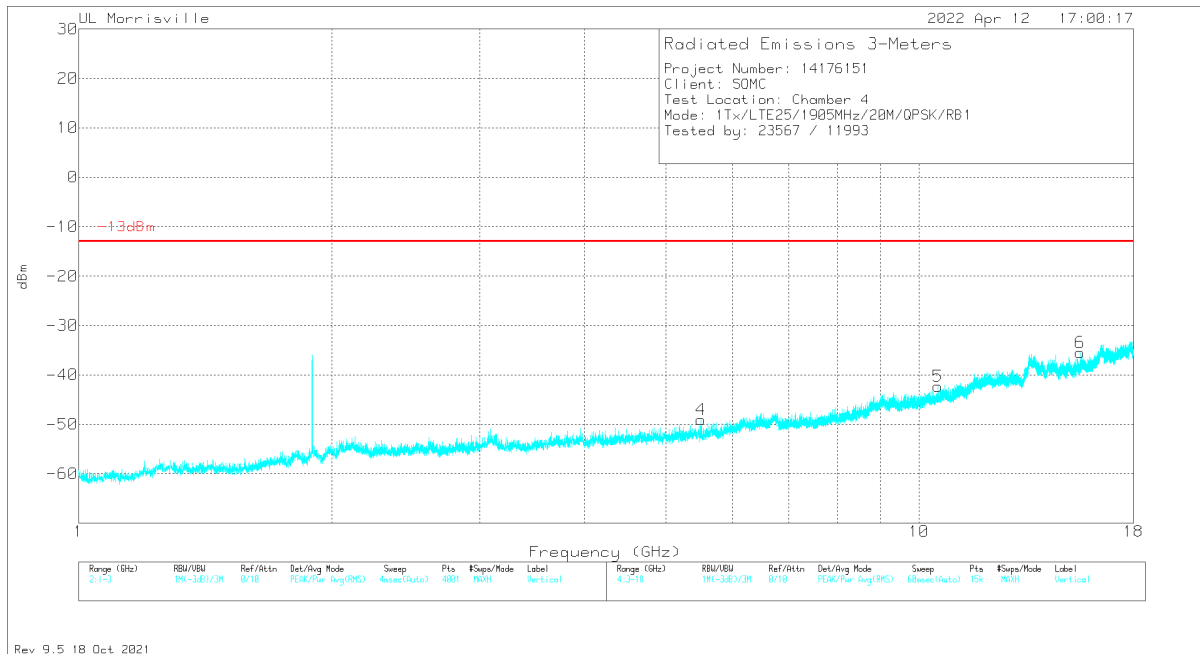
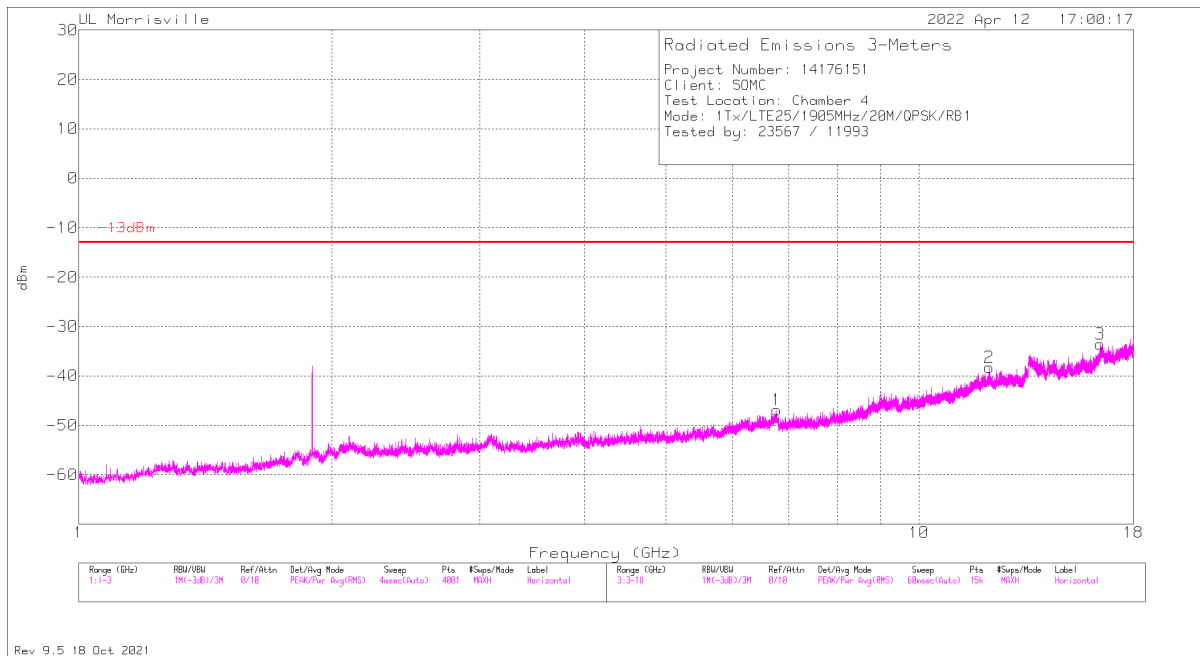
Pk - Peak detector





Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.619	-65.02	Pk	34.4	-31.4	11.8	0	-50.22	-13	-37.22	0-360	100	H
4	5.621	-60.51	Pk	34.4	-31.4	11.8	0	-45.71	-13	-32.71	0-360	200	V
5	9.2835	-65.36	Pk	36.3	-26.3	11.8	0	-43.56	-13	-30.56	0-360	300	V
2	9.34	-65.53	Pk	36.4	-25.8	11.8	0	-43.13	-13	-30.13	0-360	100	H
3	16.485	-65.52	Pk	41	-21.1	11.8	0	-33.82	-13	-20.82	0-360	100	H
6	16.582	-65.53	Pk	41.2	-21.2	11.8	0	-33.73	-13	-20.73	0-360	200	V

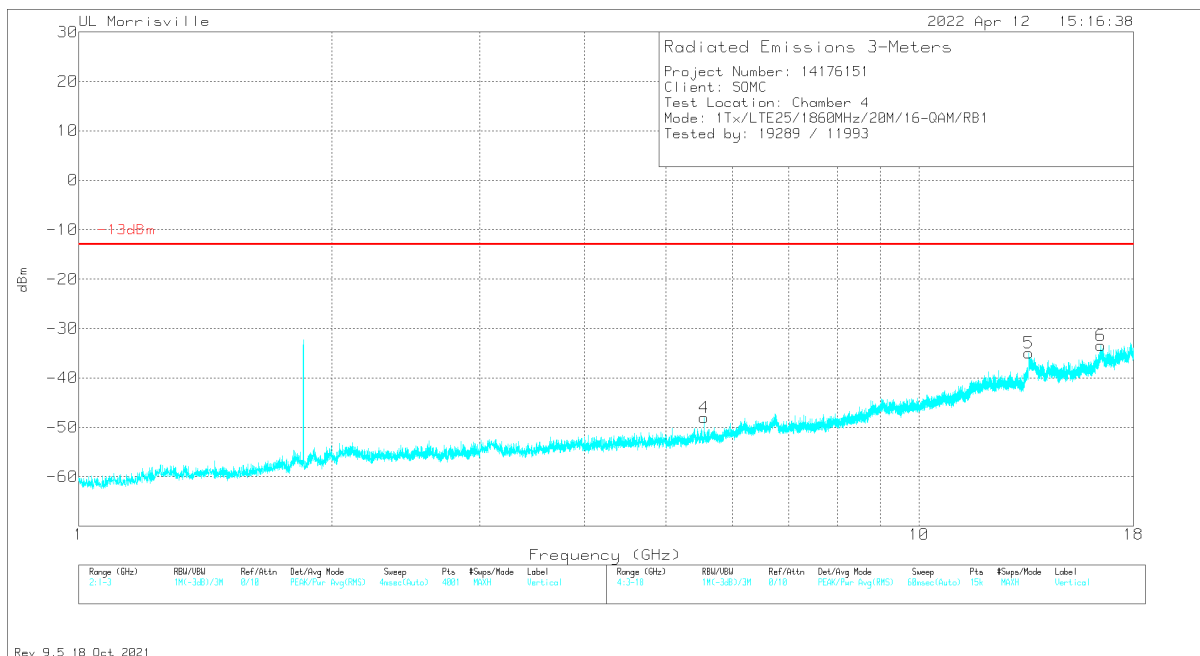
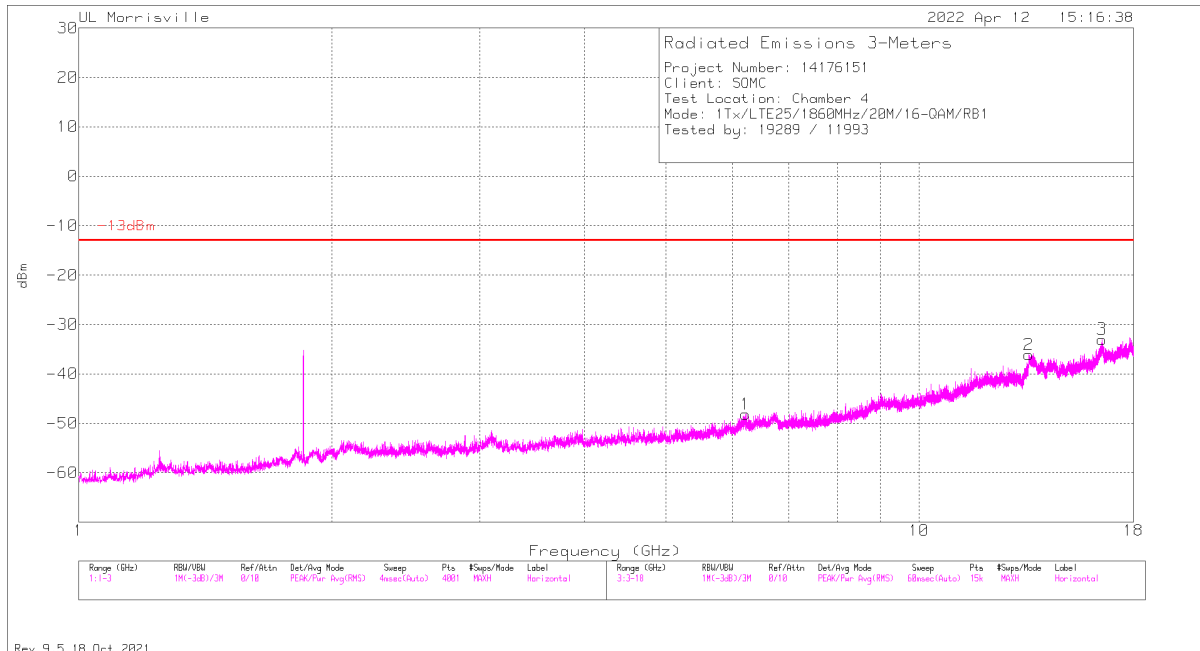
Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	5.507	-63.64	Pk	34.5	-31.7	11.8	0	-49.04	-13	-36.04	0-360	300	V
1	6.769	-65.33	Pk	35.4	-28.7	11.8	0	-46.83	-13	-33.83	0-360	200	H
5	10.525	-65.7	Pk	37.6	-26	11.8	0	-42.3	-13	-29.3	0-360	200	V
2	12.122	-64.71	Pk	38.7	-24	11.8	0	-38.21	-13	-25.21	0-360	200	H
6	15.559	-65.73	Pk	40.2	-21.7	11.8	0	-35.43	-13	-22.43	0-360	200	V
3	16.434	-64.84	Pk	40.9	-21.4	11.8	0	-33.54	-13	-20.54	0-360	100	H

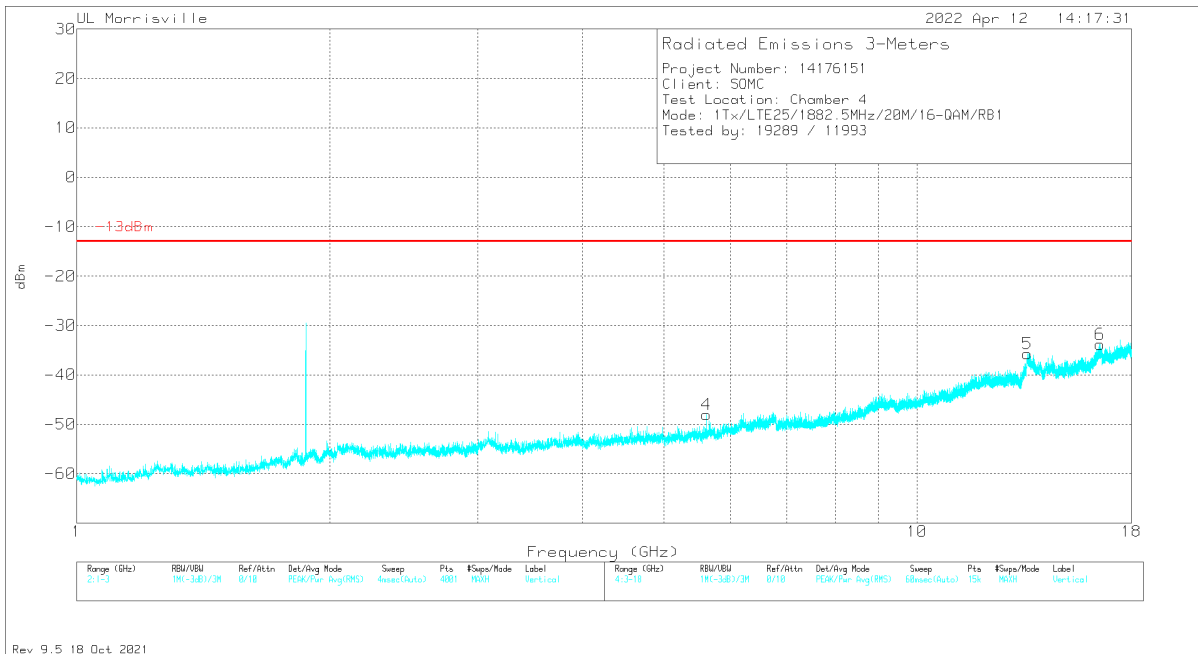
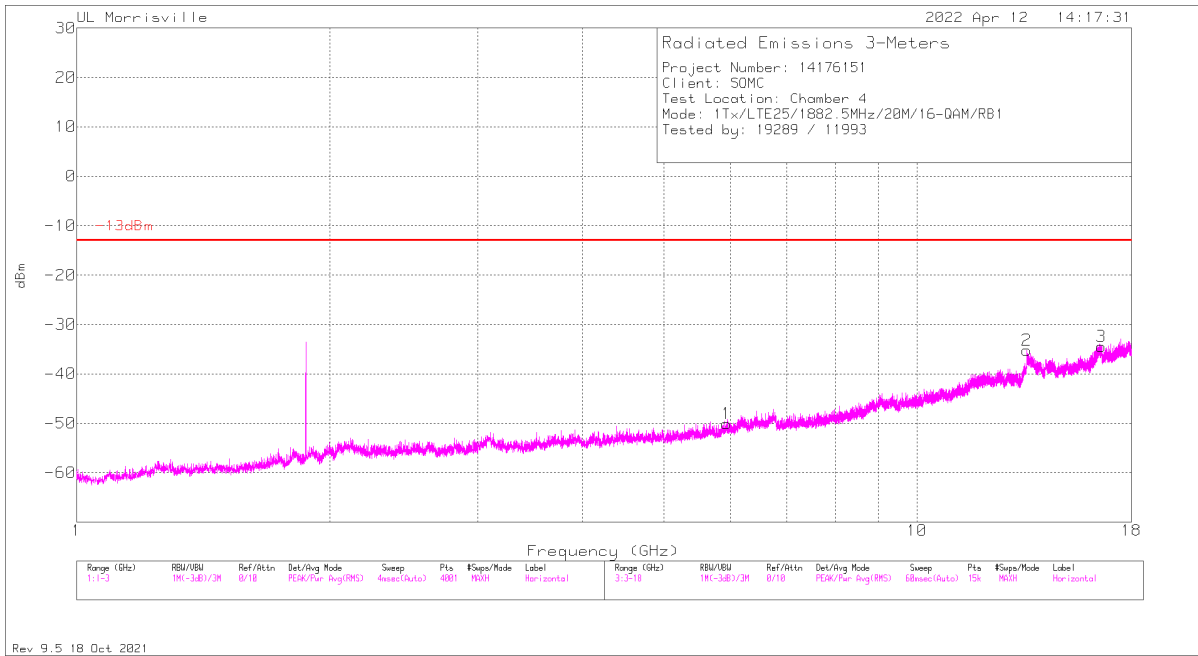
Pk - Peak detector

**16QAM LTE25 (20MHz)**



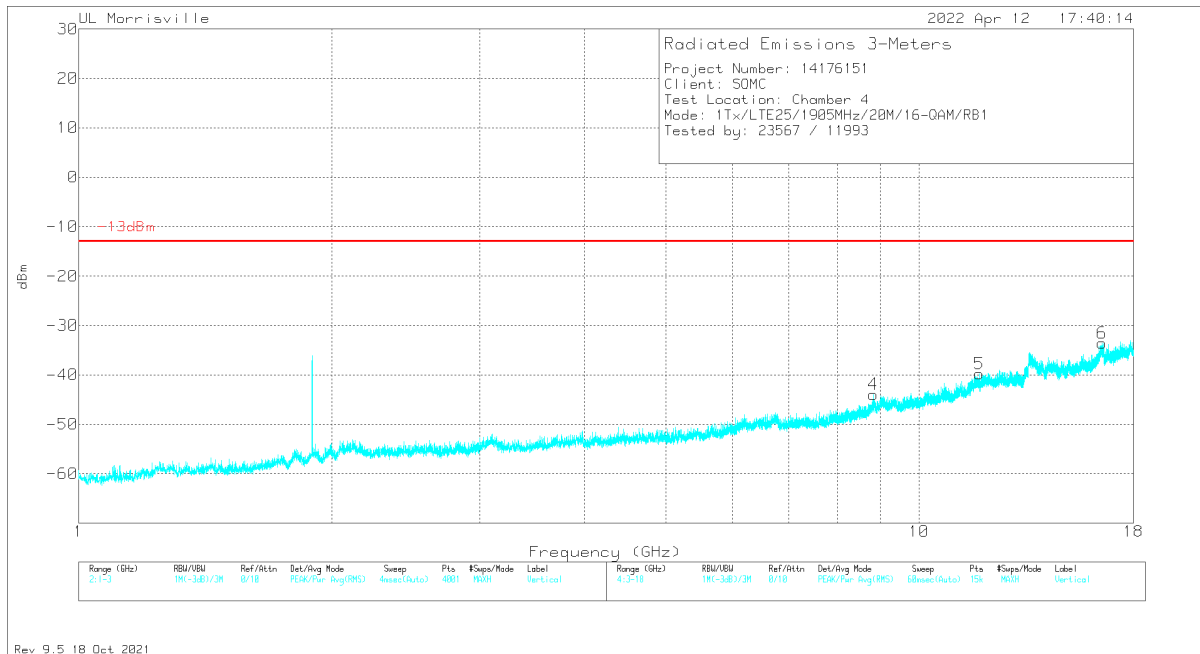
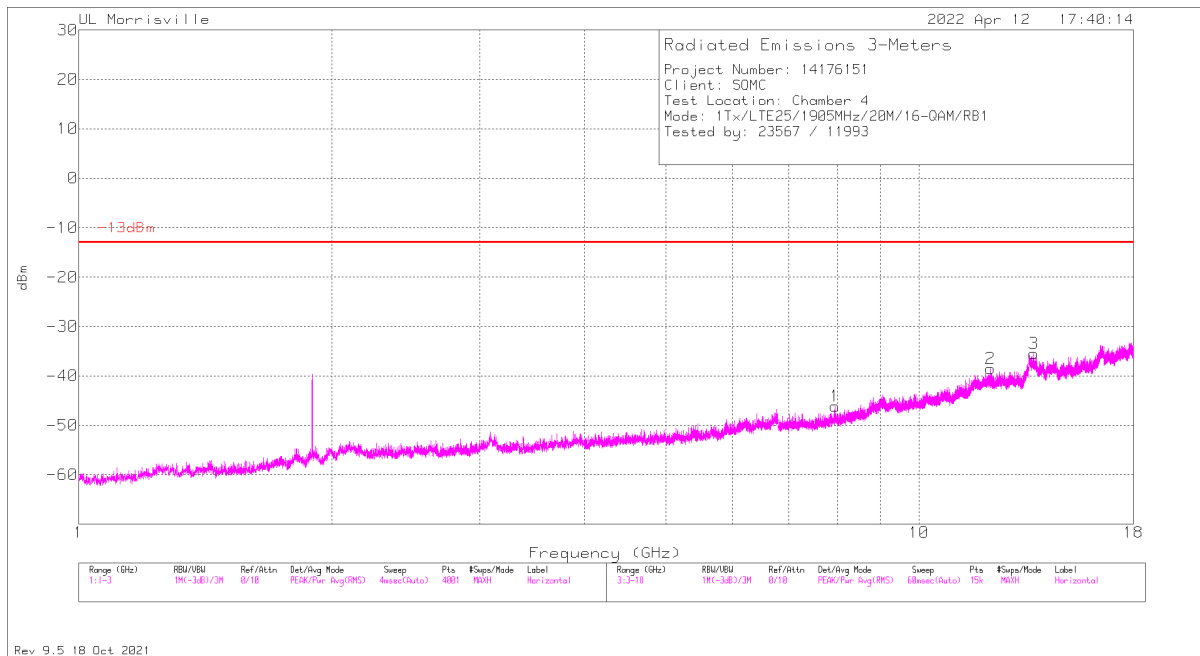
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	5.553	-62.07	Pk	34.5	-32.3	11.8	0	-48.07	-13	-35.07	0-360	300	V
1	6.218	-66.56	Pk	35.5	-28.9	11.8	0	-48.16	-13	-35.16	0-360	100	H
2	13.508	-64.07	Pk	38.7	-22.5	11.8	0	-36.07	-13	-23.07	0-360	100	H
5	13.517	-62.85	Pk	38.7	-22.6	11.8	0	-34.95	-13	-21.95	0-360	300	V
6	16.47	-65.15	Pk	41	-21.1	11.8	0	-33.45	-13	-20.45	0-360	200	V
3	16.509	-64.69	Pk	41.1	-21.2	11.8	0	-32.99	-13	-19.99	0-360	100	H

PK - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	5.621	-62.88	Pk	34.4	-31.4	11.8	0	-48.08	-13	-35.08	0-360	300	V
1	5.937	-67.26	Pk	35	-29.6	11.8	0	-50.06	-13	-37.06	0-360	200	H
2	13.52	-63.16	Pk	38.7	-22.6	11.8	0	-35.26	-13	-22.26	0-360	200	H
5	13.532	-63.66	Pk	38.7	-22.5	11.8	0	-35.66	-13	-22.66	0-360	200	V
6	16.531	-65.57	Pk	41.1	-21.2	11.8	0	-33.87	-13	-20.87	0-360	200	V
3	16.571	-66.29	Pk	41.2	-21.2	11.8	0	-34.49	-13	-21.49	0-360	200	H

Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	7.943	-65.21	Pk	35.6	-28.3	11.8	0	-46.11	-13	-33.11	0-360	200	H
4	8.823	-65.41	Pk	36	-26.3	11.8	0	-43.91	-13	-30.91	0-360	300	V
5	11.806	-65.8	Pk	38.4	-24.2	11.8	0	-39.8	-13	-26.8	0-360	300	V
2	12.17	-64.96	Pk	38.8	-24.2	11.8	0	-38.56	-13	-25.56	0-360	100	H
3	13.695	-63.51	Pk	38.6	-22.3	11.8	0	-35.41	-13	-22.41	0-360	100	H
6	16.515	-65.29	Pk	41.1	-21.2	11.8	0	-33.59	-13	-20.59	0-360	300	V

Pk - Peak detector

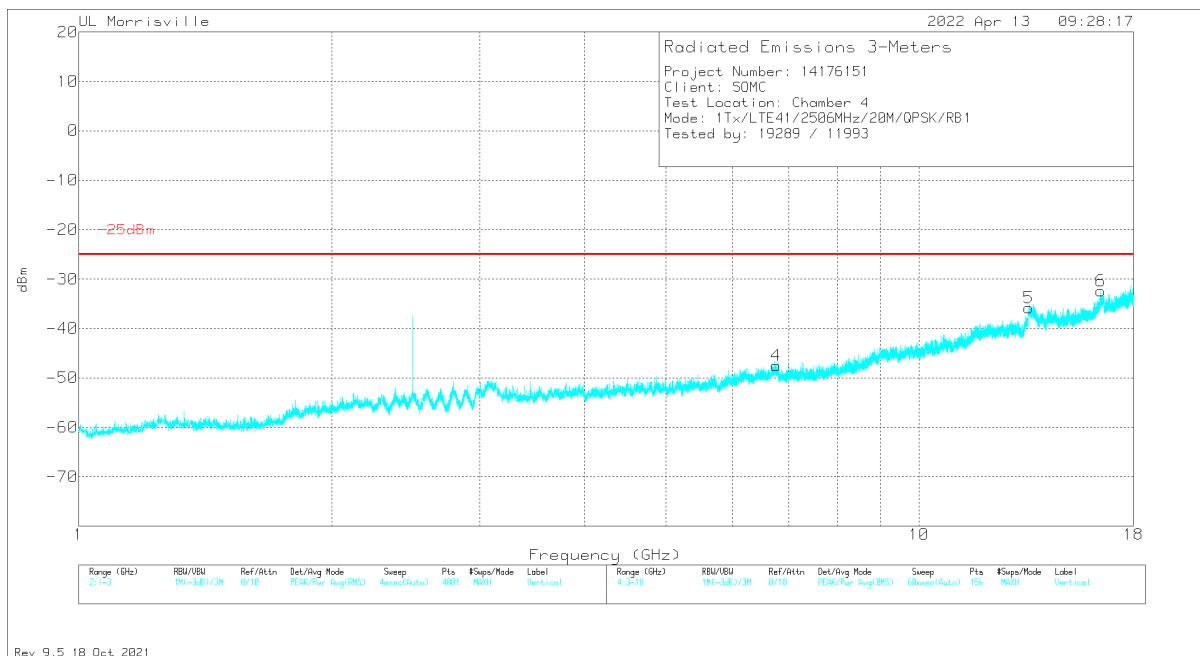
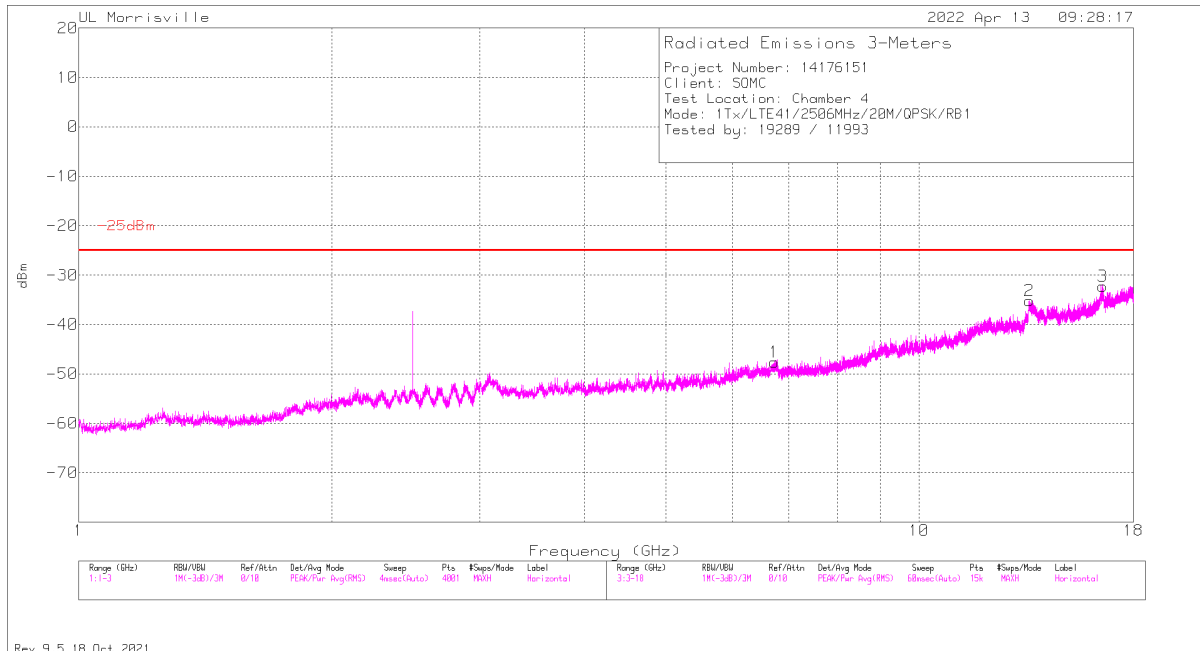
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### 11.1.5. LTE41

FCC: §27.53 (m)

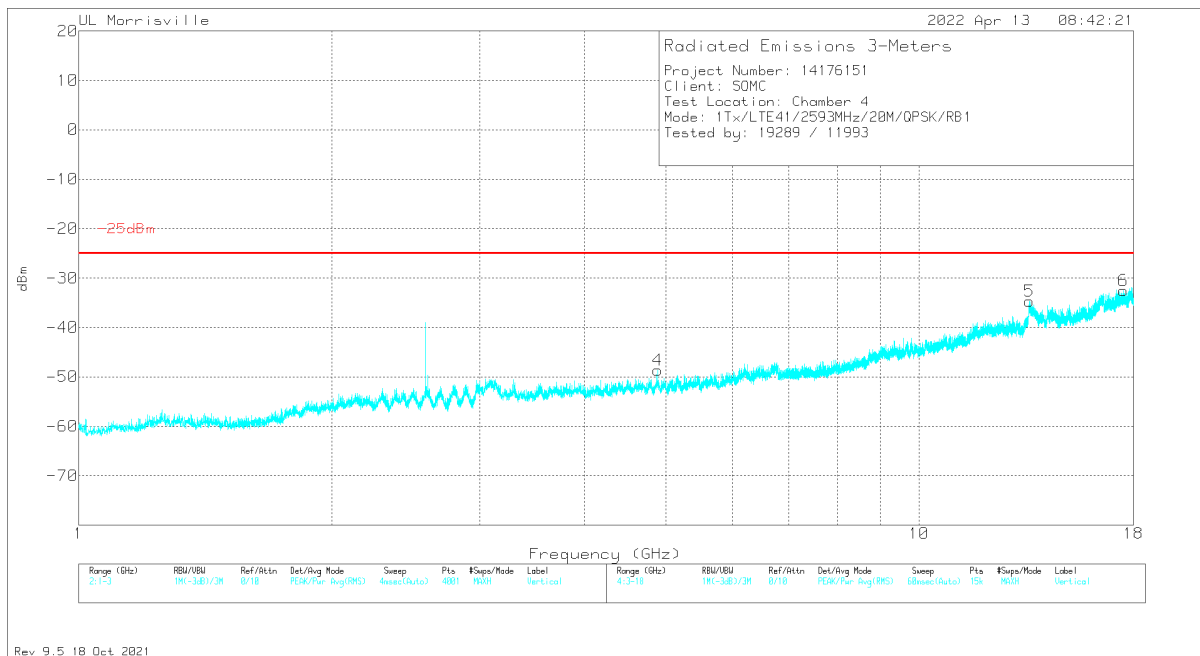
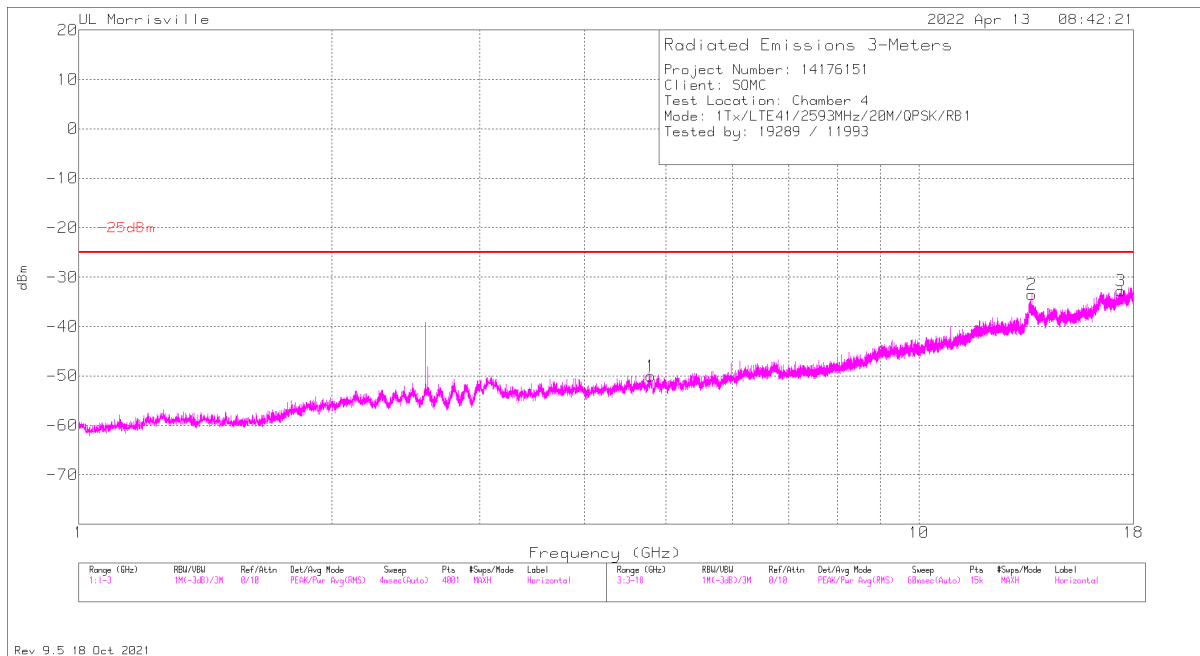
At least  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section.

**QPSK LTE41 (20MHz)**



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	6.73	-66.8	Pk	35.5	-28.5	11.8	.4	-47.6	-25	-22.6	0-360	200	H
4	6.758	-66.55	Pk	35.5	-28.6	11.8	.4	-47.45	-25	-22.45	0-360	200	V
5	13.516	-64.63	Pk	38.7	-22.6	11.8	.9	-35.83	-25	-10.83	0-360	200	V
2	13.534	-63.95	Pk	38.7	-22.5	11.8	.8	-35.15	-25	-10.15	0-360	100	H
6	16.456	-65.01	Pk	41	-21.1	11.8	.9	-32.41	-25	-7.41	0-360	300	V
3	16.538	-64.84	Pk	41.1	-21.2	11.8	.9	-32.24	-25	-7.24	0-360	100	H

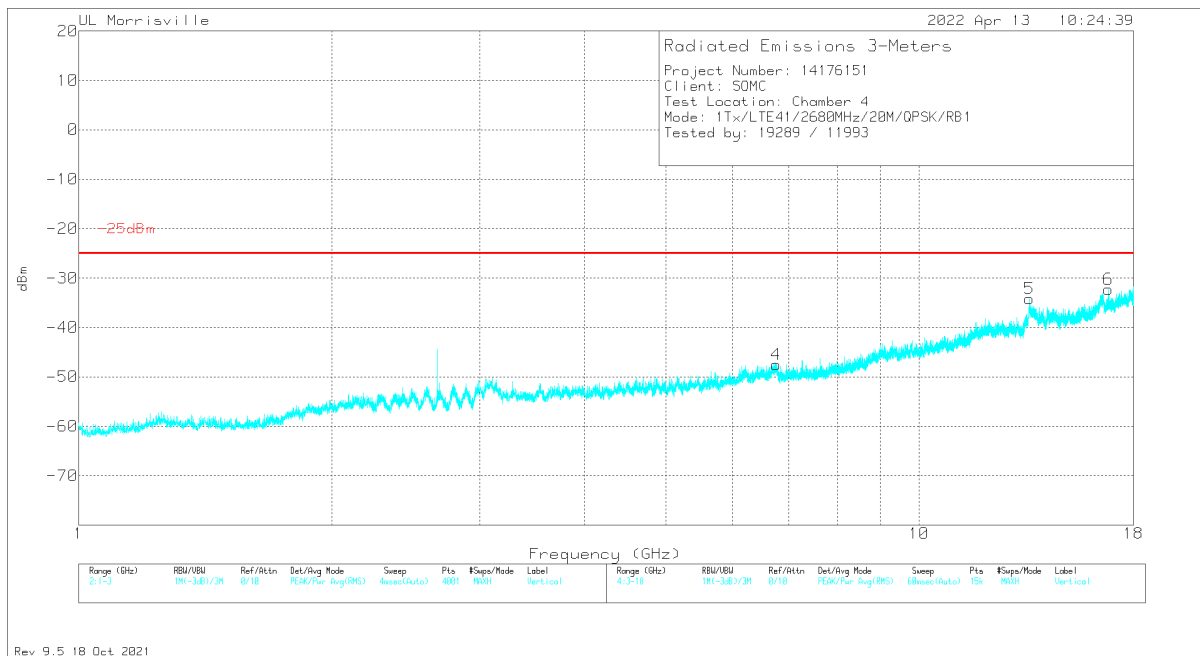
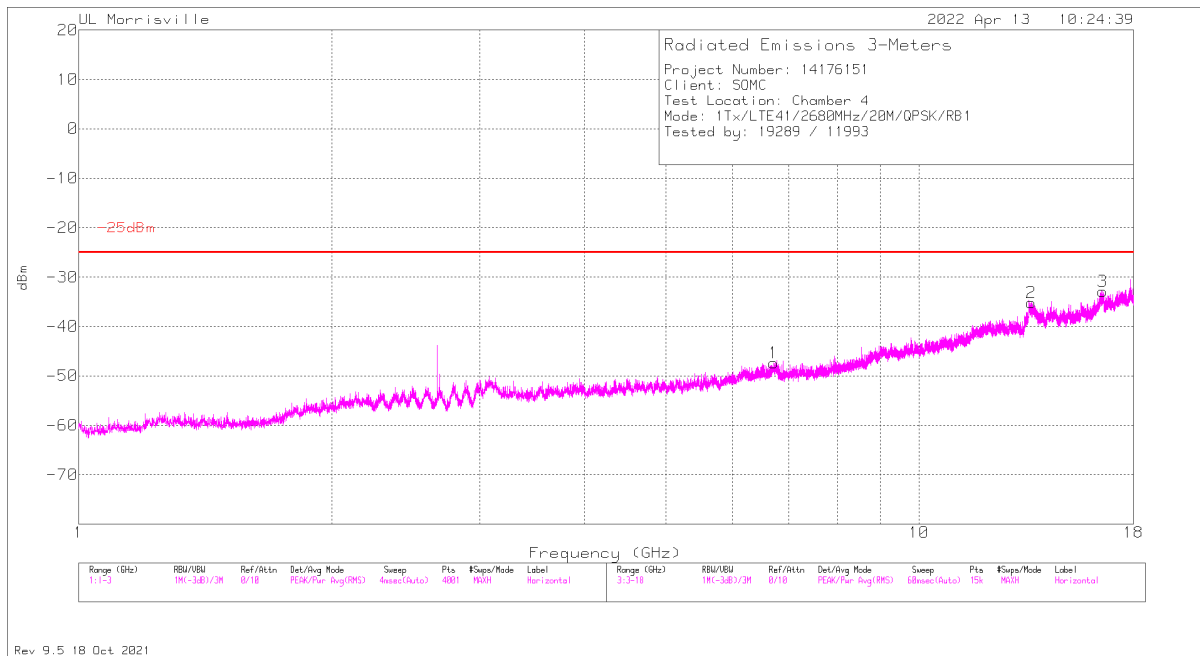
PK - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	4.795	-64.1	Pk	34	-32.4	11.8	.7	-50	-25	-25	0-360	100	H
4	4.889	-63.04	Pk	34	-32.3	11.8	.9	-48.64	-25	-23.64	0-360	200	V
5	13.536	-63.43	Pk	38.7	-22.5	11.8	.8	-34.63	-25	-9.63	0-360	300	V
2	13.626	-61.69	Pk	38.6	-22.9	11.8	.6	-33.59	-25	-8.59	0-360	100	H
3	17.382	-66.18	Pk	41.3	-20.7	11.8	1	-32.78	-25	-7.78	0-360	100	H
6	17.52	-66.77	Pk	41.2	-19.9	11.8	1.1	-32.57	-25	-7.57	0-360	300	V

Pk - Peak detector

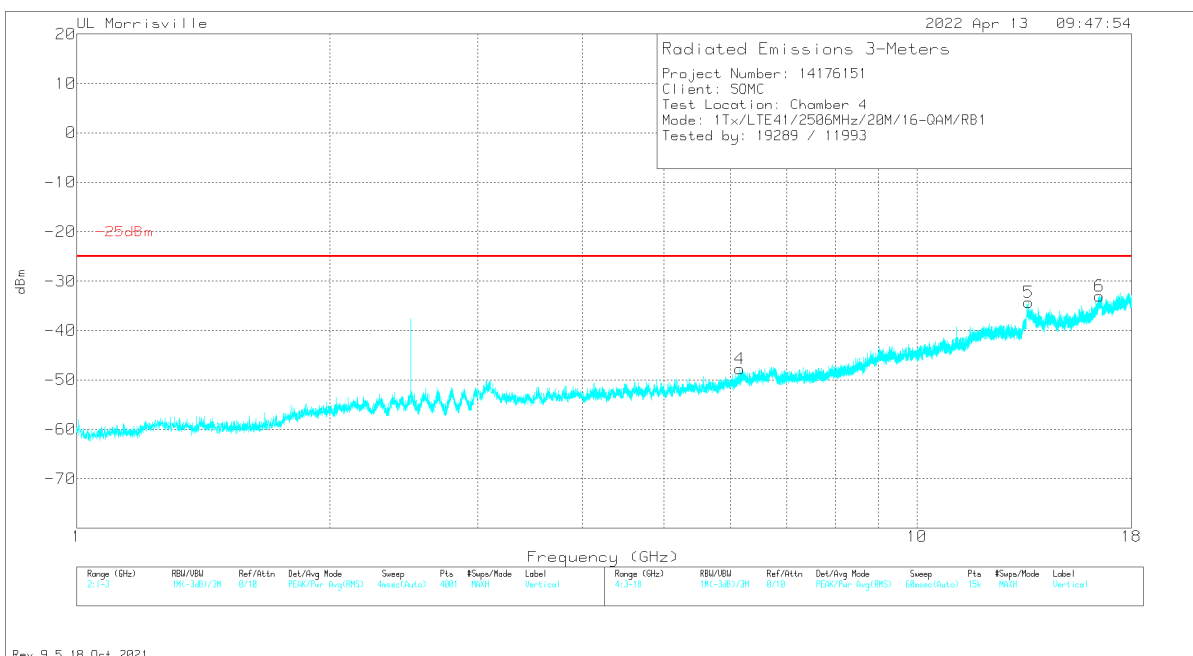
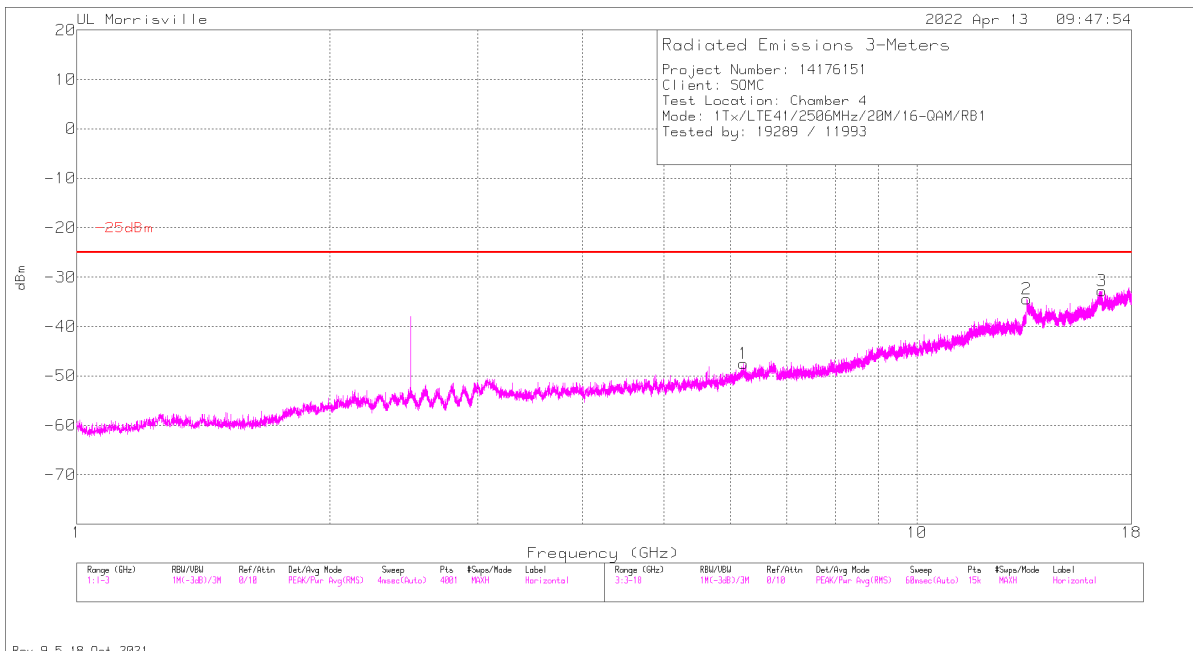




Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	6.715	-66.61	Pk	35.5	-28.6	11.8	.5	-47.41	-25	-22.41	0-360	100	H
4	6.767	-66.45	Pk	35.5	-28.7	11.8	.4	-47.45	-25	-22.45	0-360	300	V
5	13.541	-62.87	Pk	38.7	-22.6	11.8	.8	-34.17	-25	-9.17	0-360	200	V
2	13.599	-62.96	Pk	38.6	-23.1	11.8	.5	-35.16	-25	-10.16	0-360	200	H
3	16.542	-65.5	Pk	41.1	-21.2	11.8	.9	-32.9	-25	-7.9	0-360	100	H
6	16.811	-65.71	Pk	41.2	-20.5	11.8	.9	-32.31	-25	-7.31	0-360	300	V

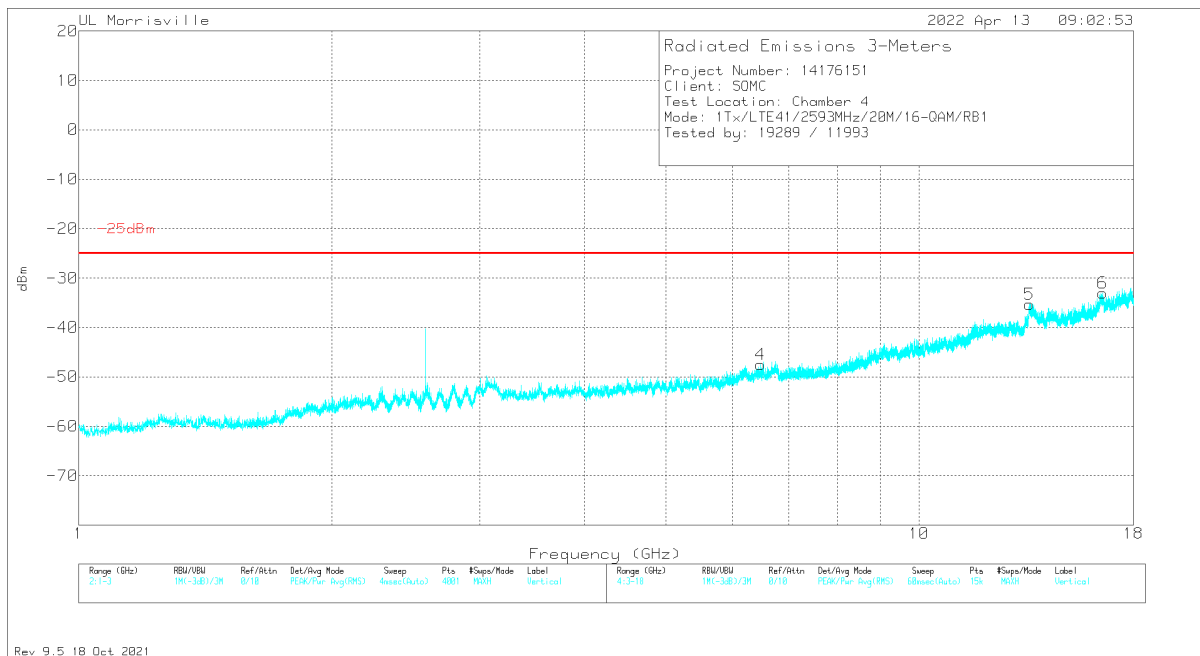
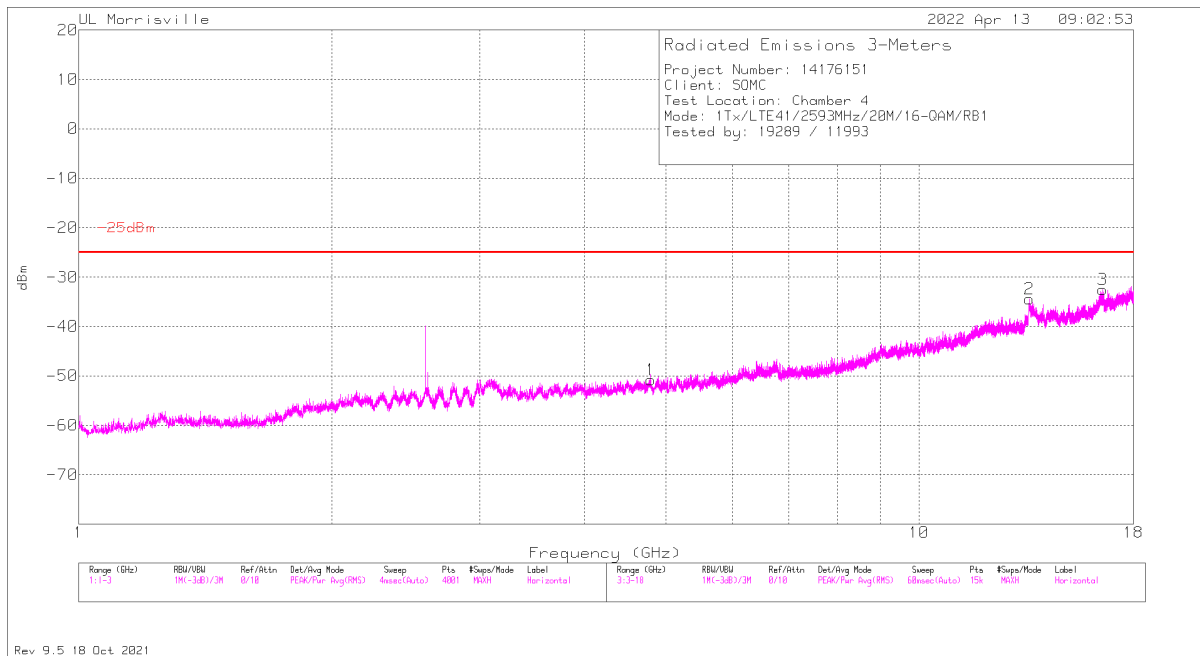
Pk - Peak detector

**16QAM LTE41 (20MHz)**



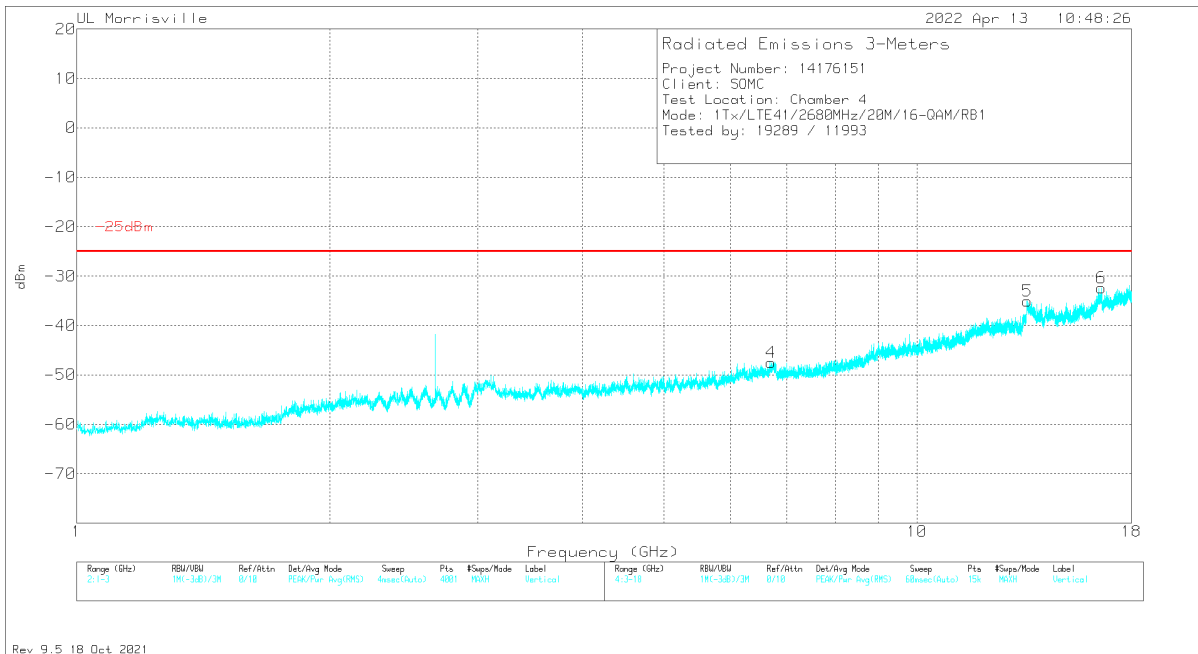
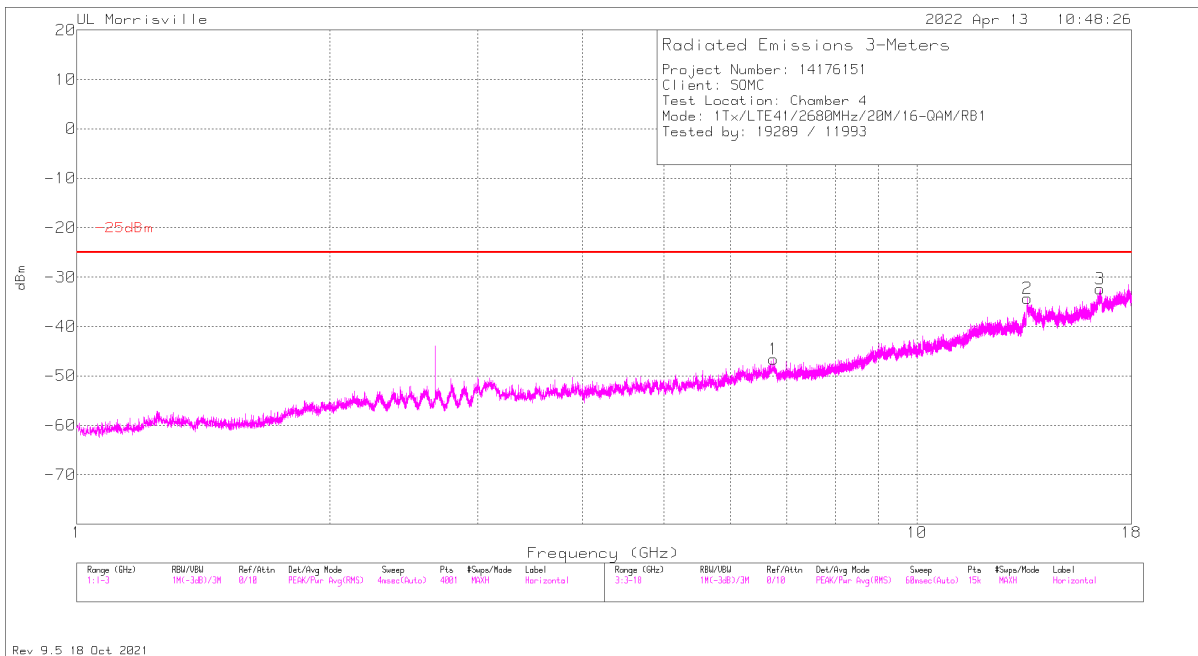
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	6.152	-65.8	Pk	35.4	-29.6	11.8	.5	-47.7	-25	-22.7	0-360	300	V
1	6.218	-66.27	Pk	35.5	-28.9	11.8	.4	-47.47	-25	-22.47	0-360	100	H
2	13.518	-63.23	Pk	38.7	-22.6	11.8	.9	-34.43	-25	-9.43	0-360	100	H
5	13.572	-62.27	Pk	38.6	-23	11.8	.6	-34.27	-25	-9.27	0-360	300	V
6	16.478	-65.47	Pk	41	-21.1	11.8	.8	-32.97	-25	-7.97	0-360	300	V
3	16.593	-65.51	Pk	41.2	-21.3	11.8	1	-32.81	-25	-7.81	0-360	100	H

PK - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	4.797	-64.89	Pk	34	-32.4	11.8	.7	-50.79	-25	-25.79	0-360	200	H
4	6.483	-66.25	Pk	35.4	-28.8	11.8	.4	-47.45	-25	-22.45	0-360	200	V
2	13.535	-63.18	Pk	38.7	-22.5	11.8	.8	-34.38	-25	-9.38	0-360	200	H
5	13.537	-64.12	Pk	38.7	-22.5	11.8	.8	-35.32	-25	-10.32	0-360	300	V
3	16.535	-65.12	Pk	41.1	-21.2	11.8	.9	-32.52	-25	-7.52	0-360	100	H
6	16.546	-65.69	Pk	41.2	-21.2	11.8	.9	-32.99	-25	-7.99	0-360	200	V

Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	6.704	-66.57	Pk	35.5	-28.7	11.8	.5	-47.47	-25	-22.47	0-360	300	V
1	6.75	-65.66	Pk	35.5	-28.6	11.8	.4	-46.56	-25	-21.56	0-360	200	H
5	13.534	-63.8	Pk	38.7	-22.5	11.8	.8	-35	-25	-10	0-360	200	V
2	13.538	-63.07	Pk	38.7	-22.5	11.8	.8	-34.27	-25	-9.27	0-360	200	H
3	16.517	-64.85	Pk	41.1	-21.2	11.8	.8	-32.35	-25	-7.35	0-360	100	H
6	16.578	-65.22	Pk	41.2	-21.2	11.8	1	-32.42	-25	-7.42	0-360	300	V

Pk - Peak detector

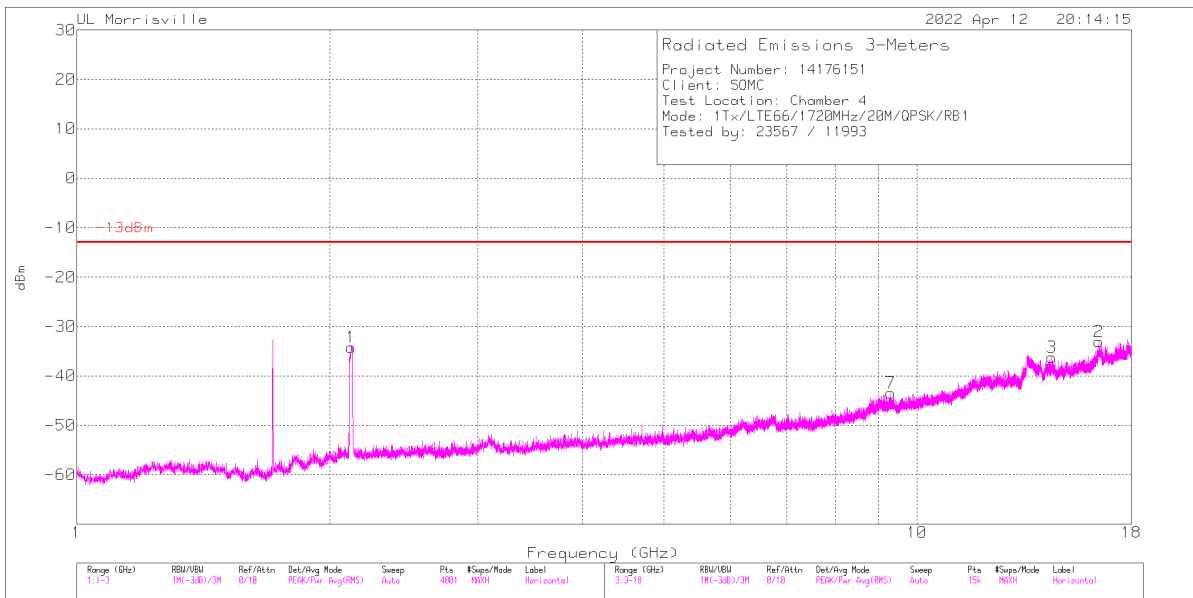
### 11.1.6. LTE66

#### LIMITS

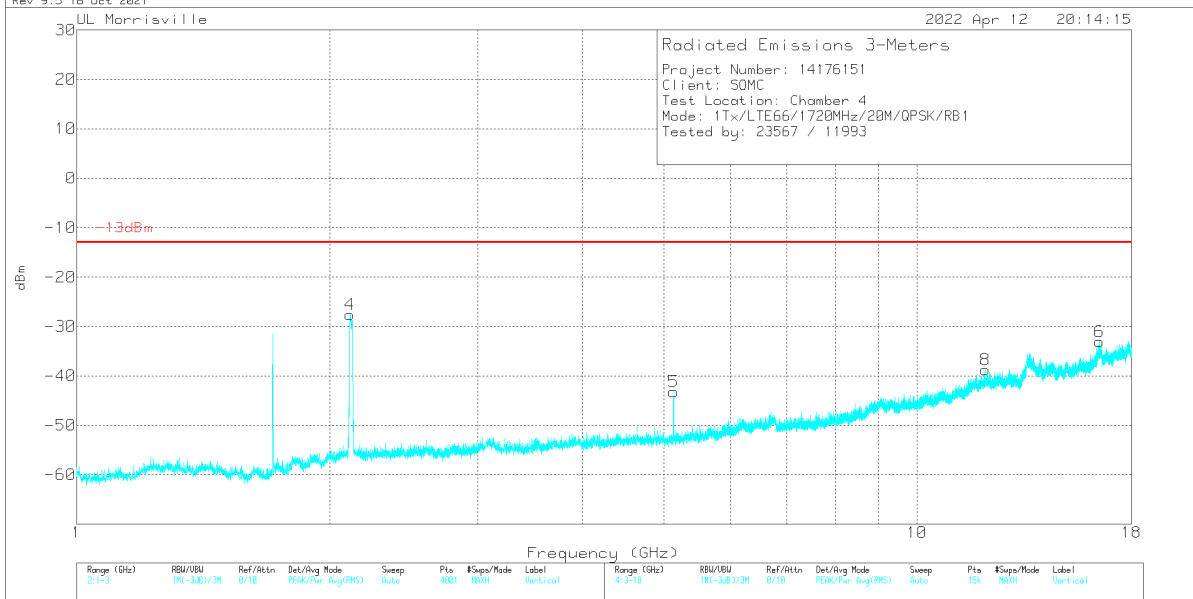
FCC: §27.53(h)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log (P)$  dB.

**QPSK LTE66 (20MHz)**



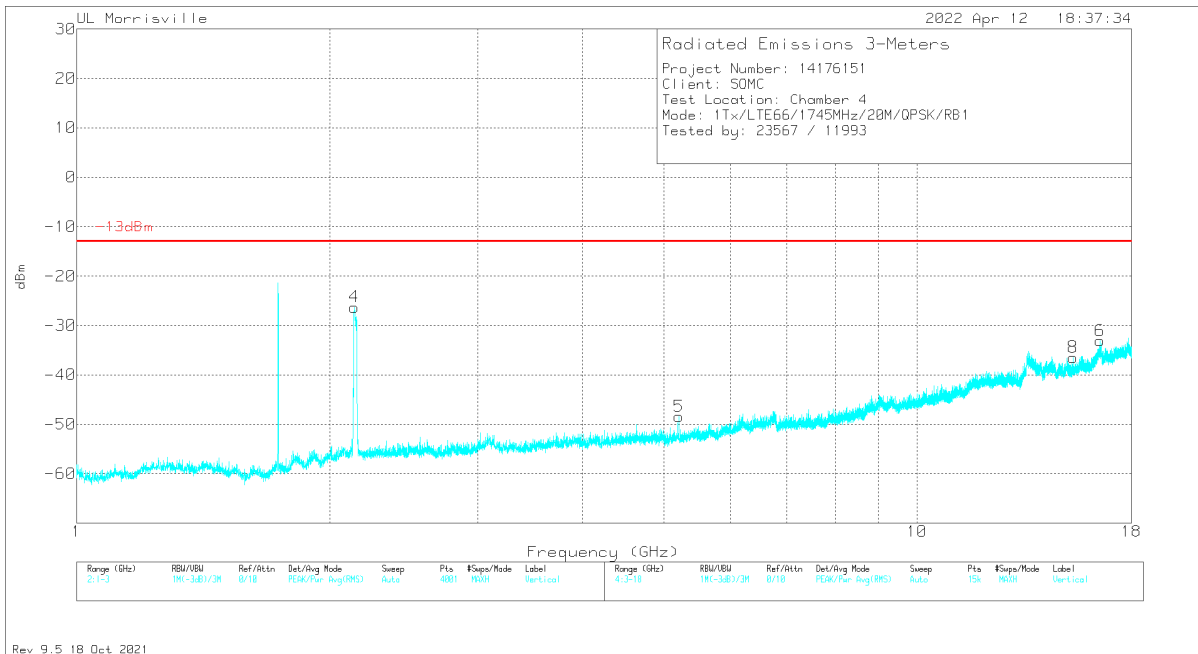
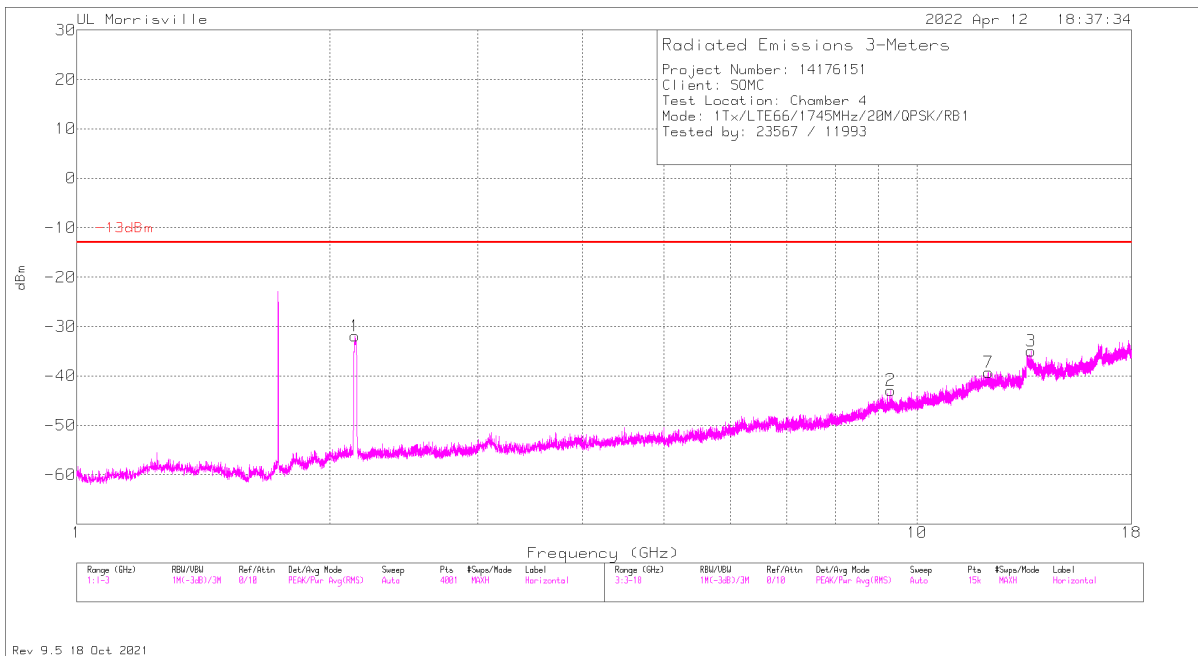
Rev 9.5 18 Oct 2021



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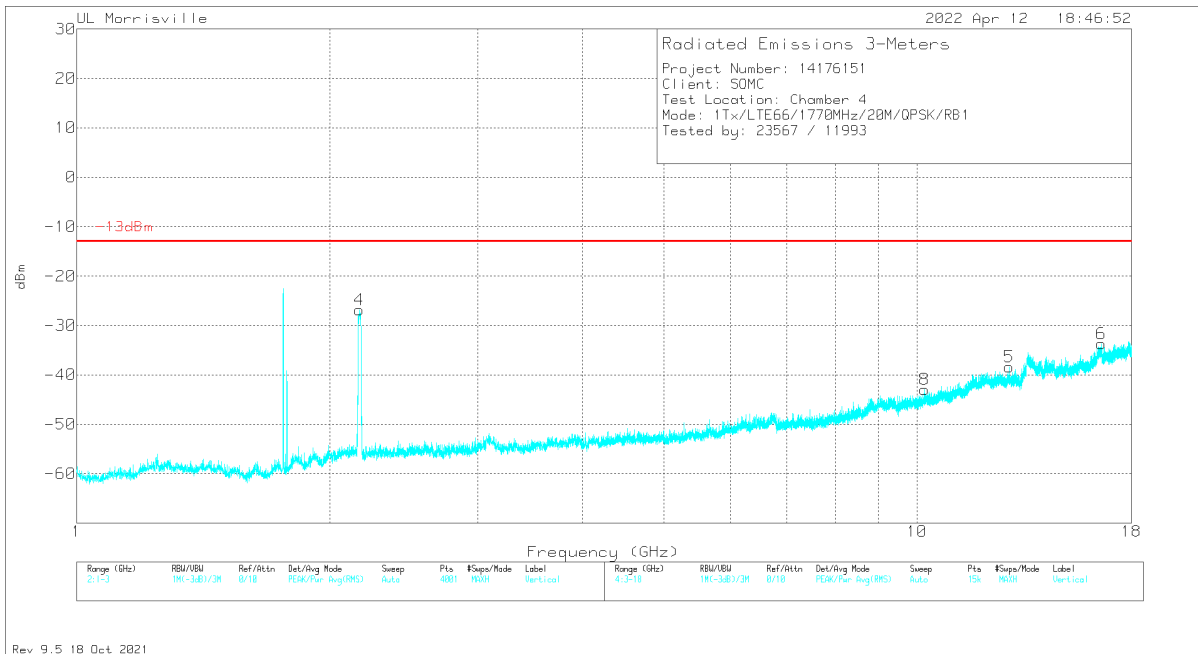
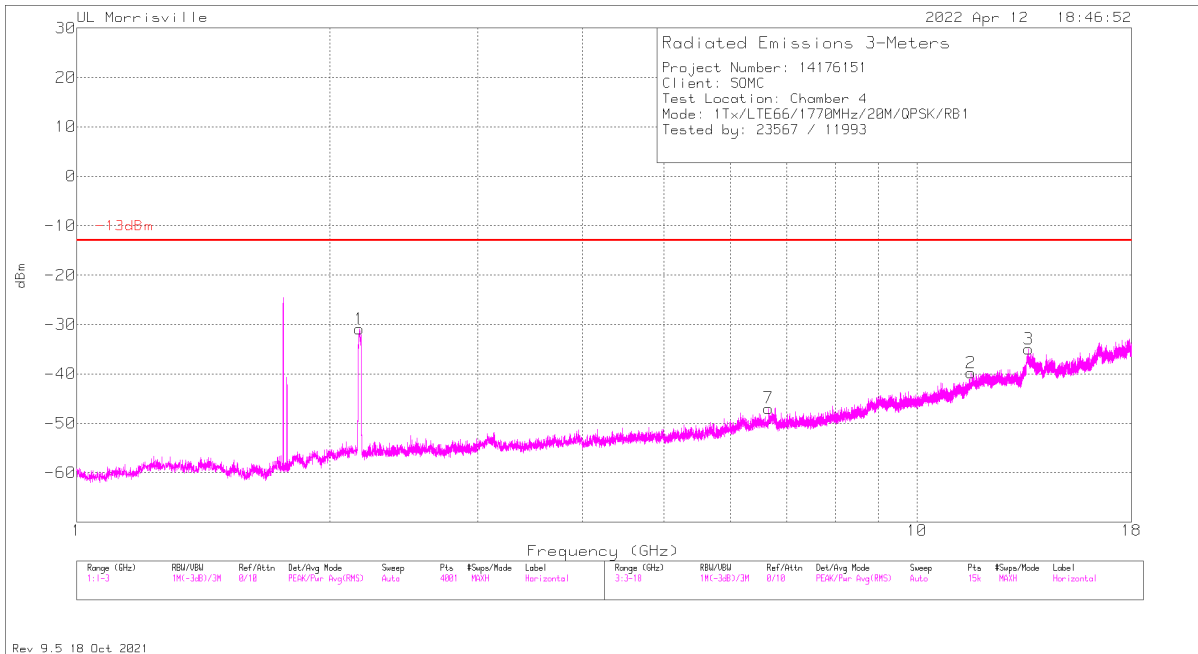
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2.1135	-35.25	Pk	31.6	-36.7	11.8	1	-27.55	-13		0-360	300	V
1	2.123	-41.97	Pk	31.7	-36.7	11.8	1	-34.17	-13		0-360	100	H
5	5.133	-57.16	Pk	34	-31.9	11.8	0	-43.26	-13	-30.26	0-360	200	V
7	9.303	-65.49	Pk	36.4	-26.2	11.8	0	-43.49	-13	-30.49	0-360	100	H
8	12.067	-65.12	Pk	38.7	-24.1	11.8	0	-38.72	-13	-25.72	0-360	300	V
3	14.473	-65.95	Pk	39.7	-21.8	11.8	0	-36.25	-13	-23.25	0-360	100	H
2	16.458	-64.75	Pk	41	-21.1	11.8	0	-33.05	-13	-20.05	0-360	200	H
6	16.502	-64.7	Pk	41.1	-21.2	11.8	0	-33	-13	-20	0-360	300	V

Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2.139	-34.16	Pk	31.8	-36.7	11.8	1	-26.26	-13		0-360	300	V
1	2.143	-39.81	Pk	31.8	-36.7	11.8	1	-31.91	-13		0-360	100	H
5	5.208	-62.56	Pk	34.2	-31.9	11.8	0	-48.46	-13	-35.46	0-360	200	V
2	9.31	-64.89	Pk	36.4	-26.2	11.8	0	-42.89	-13	-29.89	0-360	100	H
7	12.174	-65.71	Pk	38.8	-24.2	11.8	0	-39.31	-13	-26.31	0-360	100	H
3	13.685	-62.91	Pk	38.6	-22.4	11.8	0	-34.91	-13	-21.91	0-360	100	H
8	15.35	-66.22	Pk	39.9	-21.9	11.8	0	-36.42	-13	-23.42	0-360	300	V
6	16.517	-64.71	Pk	41.1	-21.2	11.8	0	-33.01	-13	-20.01	0-360	300	V

Pk - Peak detector

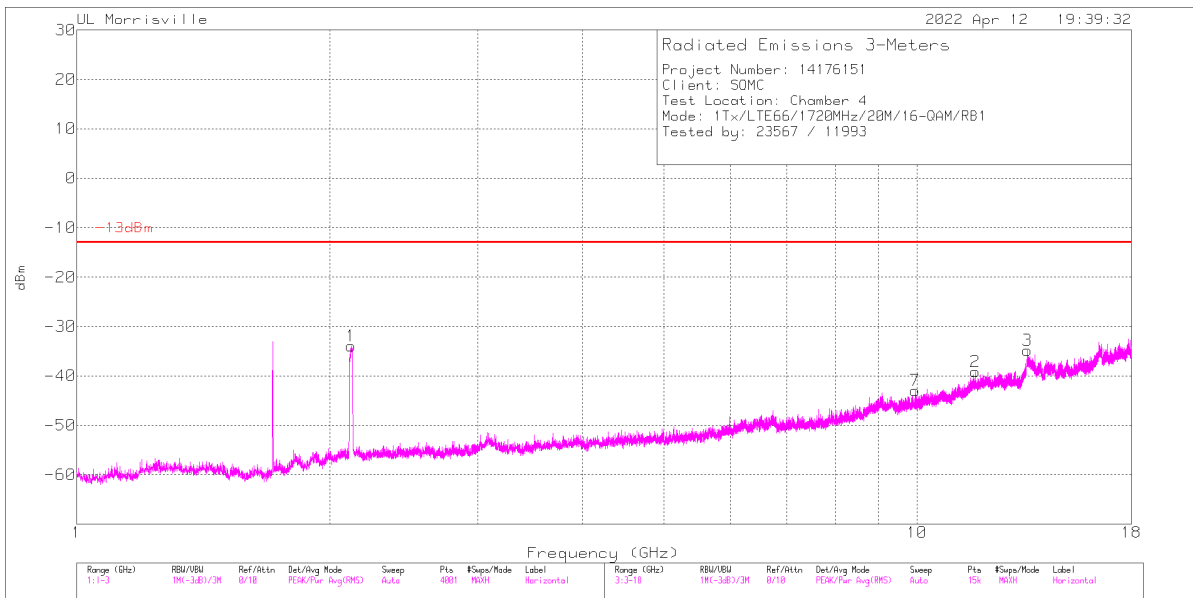


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.1685	-38.55	Pk	31.6	-36.7	11.8	1	-30.85	-13		0-360	100	H
4	2.169	-34.57	Pk	31.6	-36.7	11.8	1	-26.87	-13		0-360	300	V
7	6.654	-64.55	Pk	35.4	-29.6	11.8	0	-46.95	-13	-33.95	0-360	100	H
8	10.219	-65.76	Pk	37.2	-26.2	11.8	0	-42.96	-13	-29.96	0-360	300	V
2	11.604	-65.42	Pk	38.1	-24.3	11.8	0	-39.82	-13	-26.82	0-360	200	H
5	12.886	-65.74	Pk	39.1	-23.5	11.8	0	-38.34	-13	-25.34	0-360	300	V
3	13.589	-62.28	Pk	38.6	-23.1	11.8	0	-34.98	-13	-21.98	0-360	200	H
6	16.566	-65.46	Pk	41.2	-21.2	11.8	0	-33.66	-13	-20.66	0-360	300	V

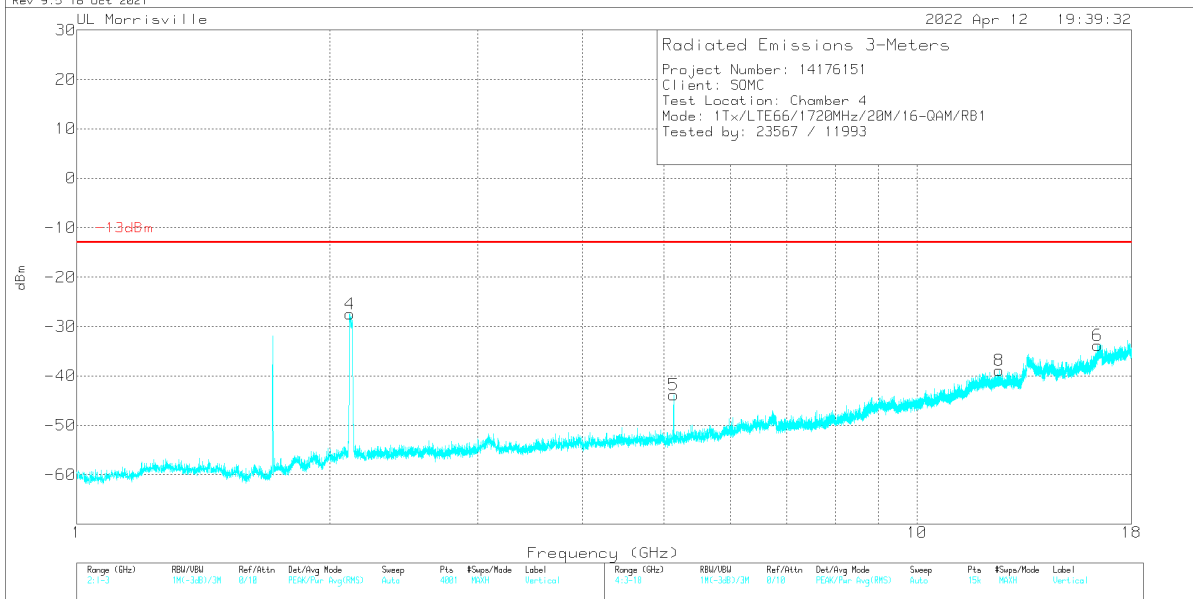
Pk - Peak detector



**16QAM LTE66 (20MHz)**



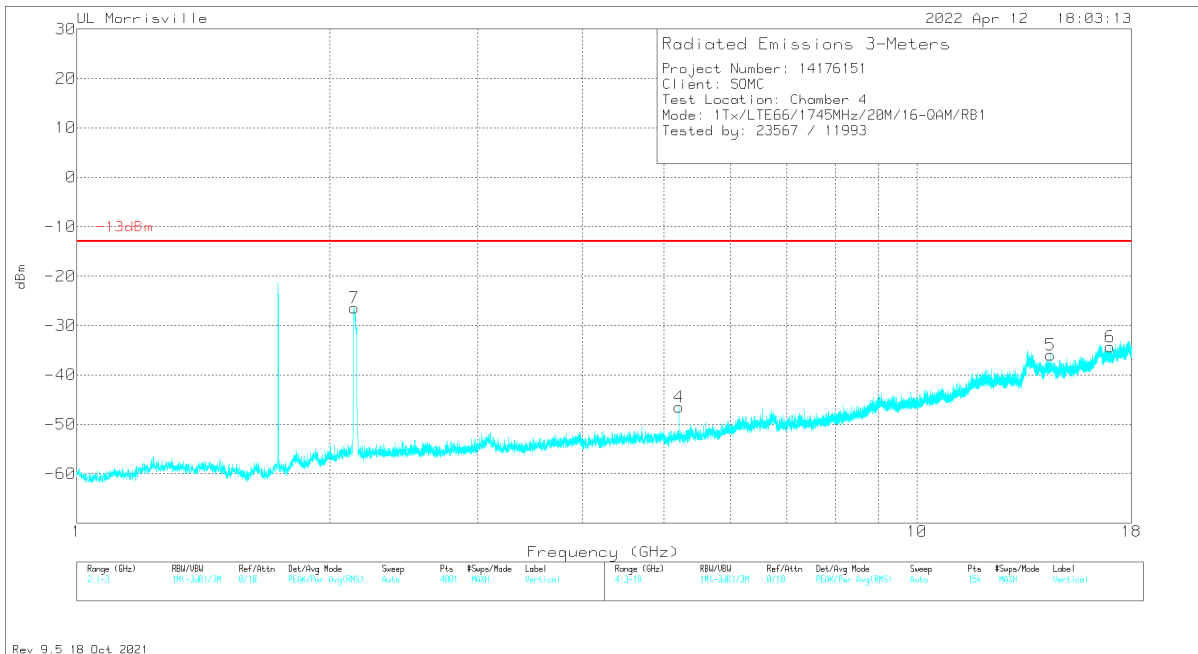
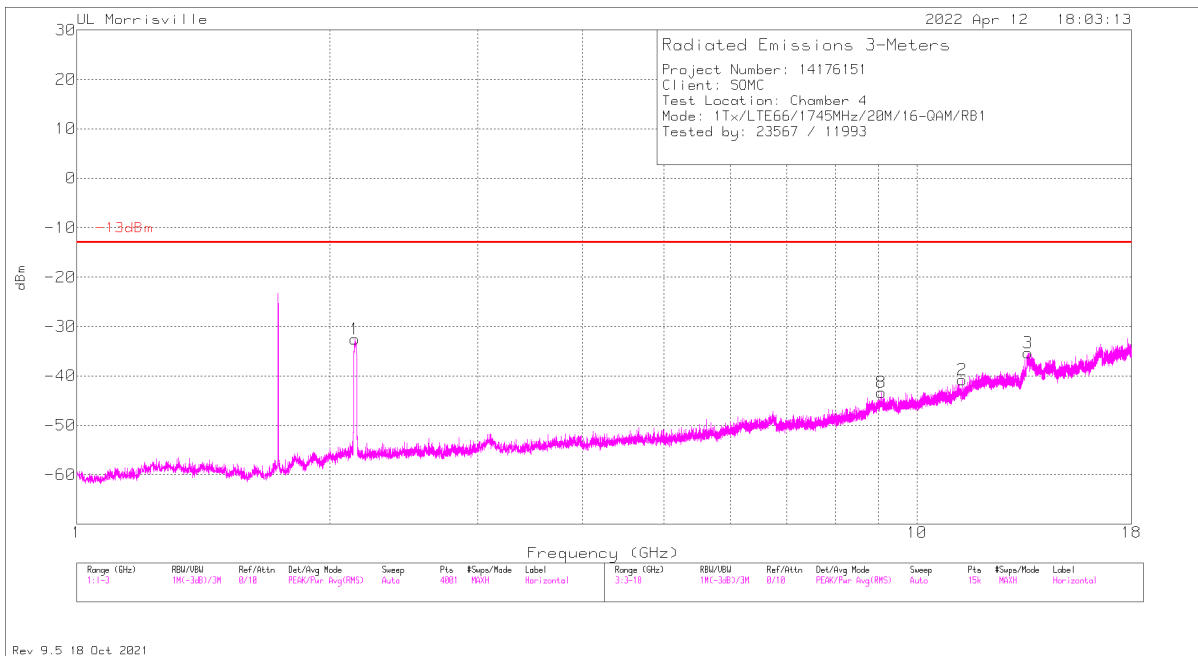
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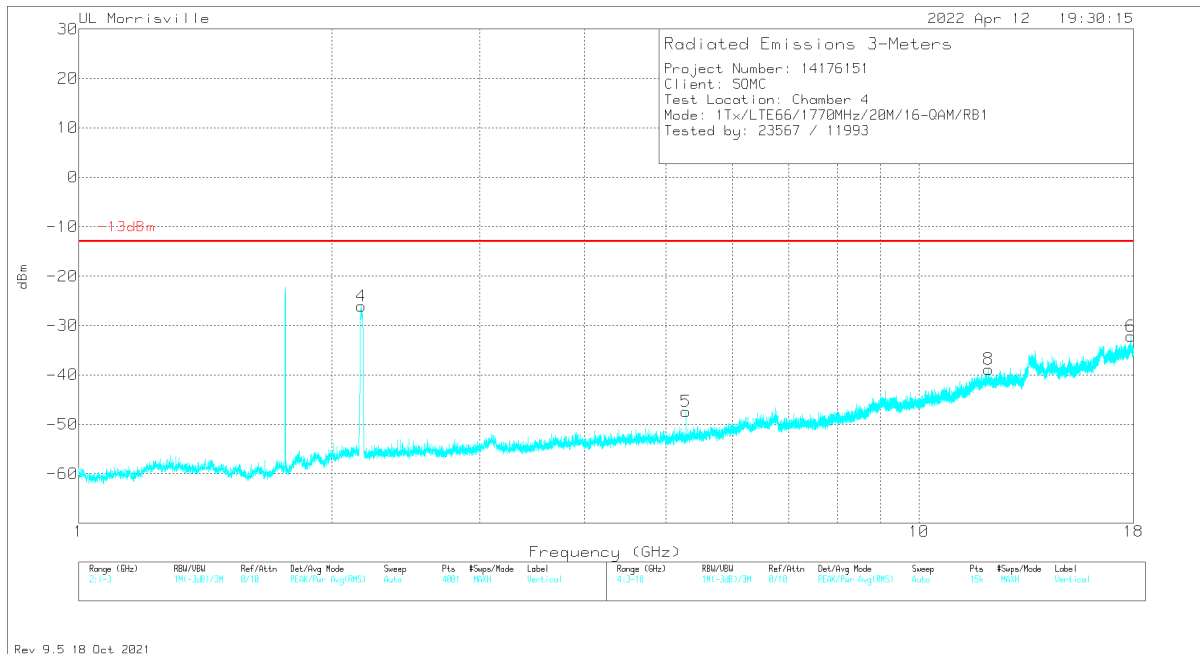
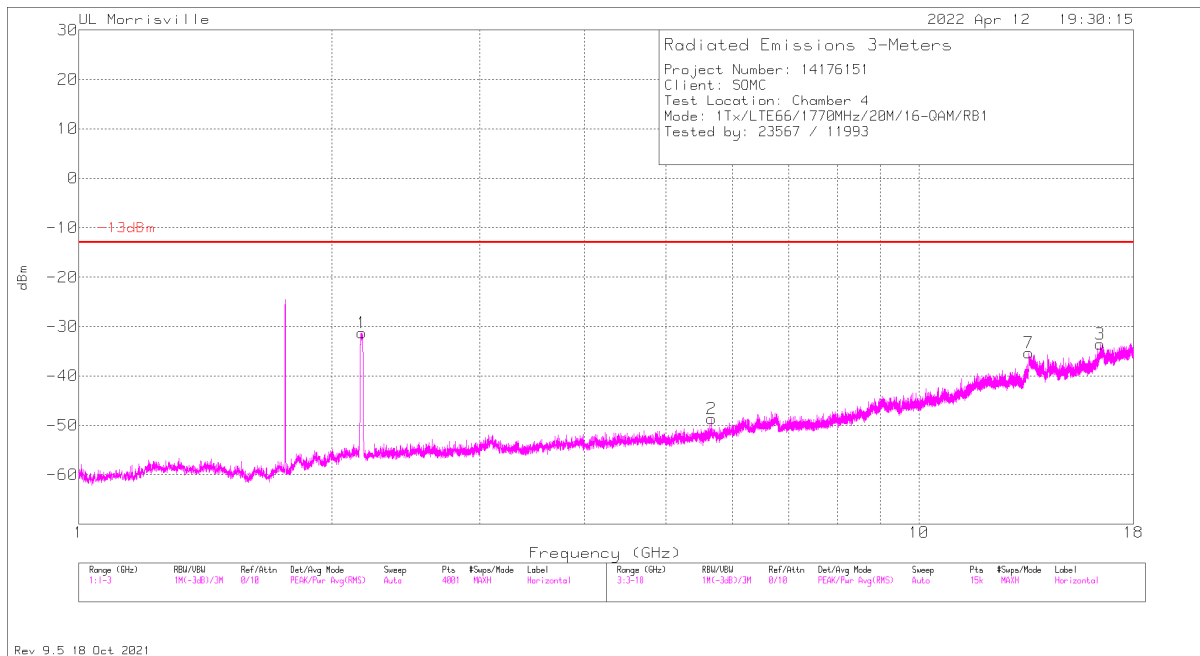
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2.114	-35.21	Pk	31.6	-36.7	11.8	1	-27.51	-13		0-360	300	V
1	2.122	-41.68	Pk	31.6	-36.7	11.8	1	-33.98	-13		0-360	100	H
5	5.133	-57.75	Pk	34	-31.9	11.8	0	-43.85	-13	-30.85	0-360	200	V
7	9.955	-65.39	Pk	37.1	-26.5	11.8	0	-42.99	-13	-29.99	0-360	100	H
2	11.732	-65.14	Pk	38.3	-24.1	11.8	0	-39.14	-13	-26.14	0-360	100	H
8	12.518	-65.44	Pk	38.8	-24	11.8	0	-38.84	-13	-25.84	0-360	200	V
3	13.534	-62.79	Pk	38.7	-22.5	11.8	0	-34.79	-13	-21.79	0-360	100	H
	16.397	-65.16	Pk	40.8	-21.3	11.8	0	-33.86	-13	-20.86	0-360	300	V

Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7	2.1385	-34.33	Pk	31.8	-36.7	11.8	1	-26.43	-13		0-360	300	V
1	2.143	-40.46	Pk	31.8	-36.7	11.8	1	-32.56	-13		0-360	100	H
4	5.208	-60.6	Pk	34.2	-31.9	11.8	0	-46.5	-13	-33.5	0-360	200	V
8	9.071	-65.8	Pk	36.2	-25.5	11.8	0	-43.3	-13	-30.3	0-360	200	H
2	11.317	-65.84	Pk	38	-24.8	11.8	0	-40.84	-13	-27.84	0-360	200	H
3	13.547	-63.02	Pk	38.6	-22.7	11.8	0	-35.32	-13	-22.32	0-360	200	H
5	14.424	-65.16	Pk	39.5	-22.1	11.8	0	-35.96	-13	-22.96	0-360	300	V
6	16.965	-66.44	Pk	41.2	-20.9	11.8	0	-34.34	-13	-21.34	0-360	300	V

Pk - Peak detector



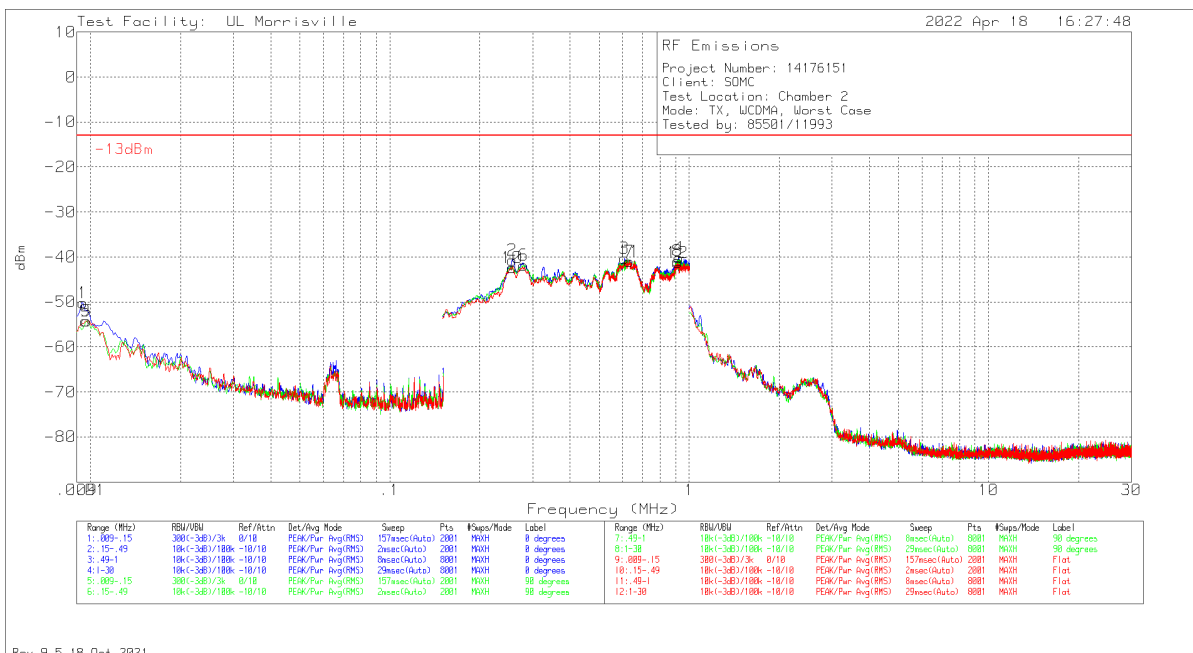
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	2.1695	-33.74	Pk	31.6	-36.7	11.8	1	-26.04	-13		0-360	300	V
1	2.172	-38.97	Pk	31.6	-36.7	11.8	1	-31.27	-13		0-360	100	H
5	5.283	-60.84	Pk	34.2	-32.6	11.8	0	-47.44	-13	-34.44	0-360	200	V
2	5.666	-64.58	Pk	34.5	-30.4	11.8	0	-48.68	-13	-35.68	0-360	100	H
8	12.103	-65.23	Pk	38.7	-24.1	11.8	0	-38.83	-13	-25.83	0-360	200	V
7	13.512	-63.34	Pk	38.7	-22.5	11.8	0	-35.34	-13	-22.34	0-360	100	H
3	16.423	-64.89	Pk	40.9	-21.4	11.8	0	-33.59	-13	-20.59	0-360	100	H
6	17.876	-65.73	Pk	41.3	-19.5	11.8	0	-32.13	-13	-19.13	0-360	300	V

Pk - Peak detector

## 11.2. Worst Case Radiated Emissions

### 11.2.1. GSM/2G

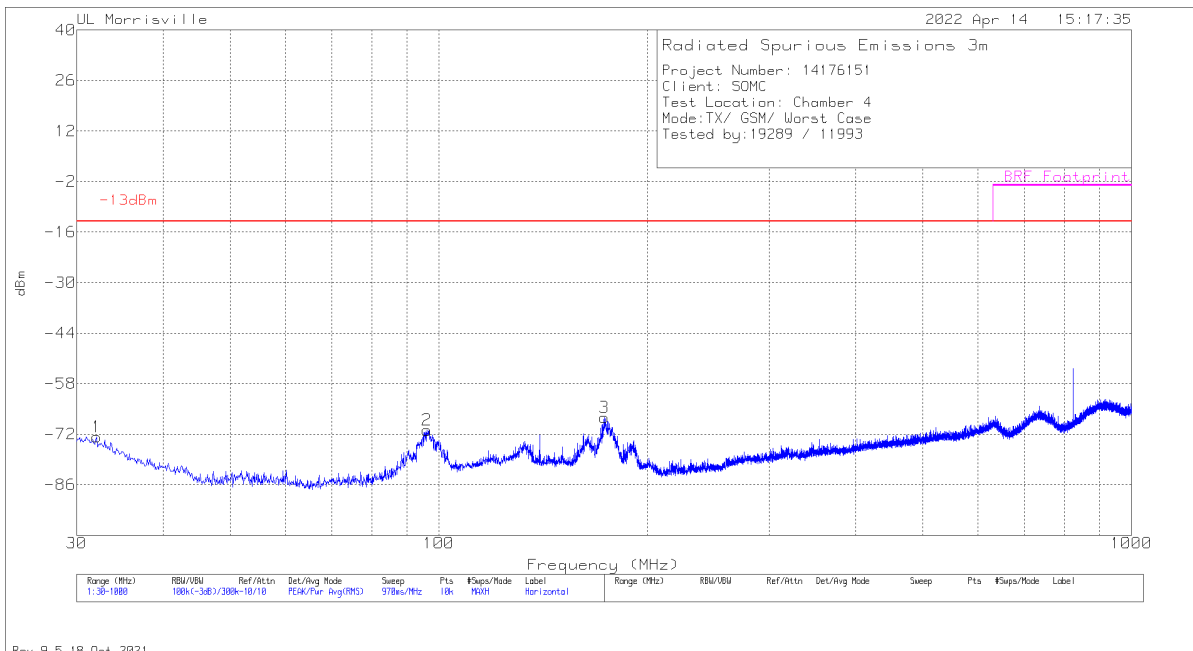
#### Below 30MHz



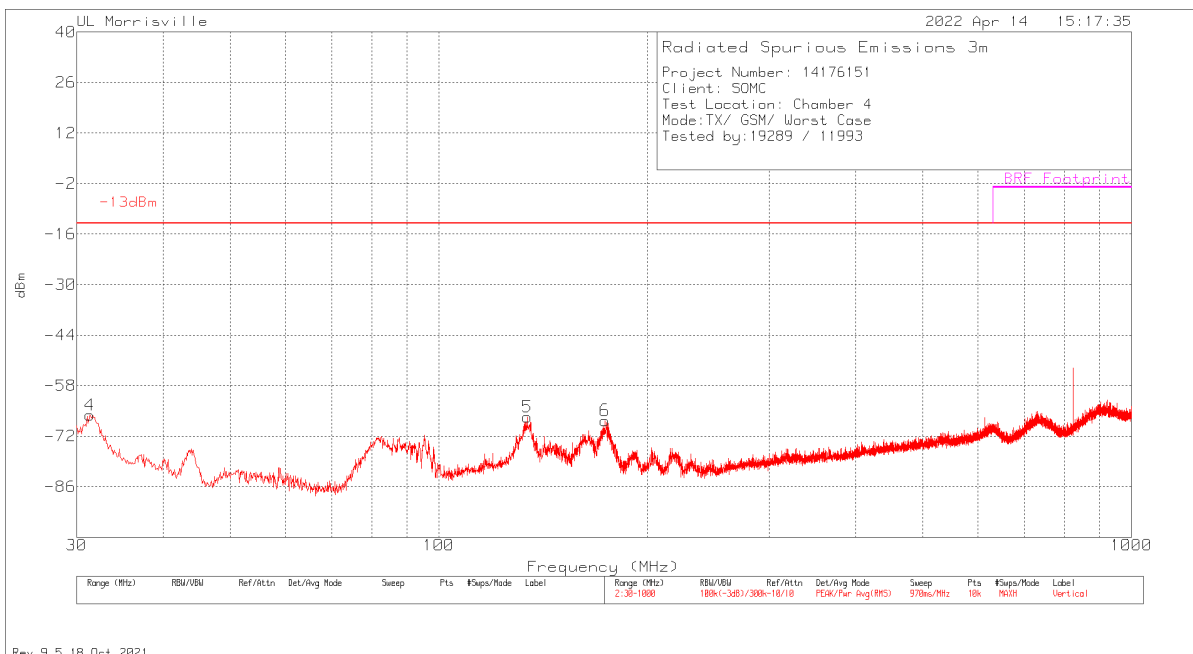
Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0037 (dB/m)	Amp/Cbl (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Loop Angle
1	.00943	-91.36	Pk	61	-31.6	11.8	-50.16	-13	-37.16	0-360	101	0 degs
9	.00964	-95.18	Pk	60.8	-31.6	11.8	-54.18	-13	-41.18	0-360	101	Flat
5	.00971	-95.18	Pk	60.7	-31.6	11.8	-54.28	-13	-41.28	0-360	101	90 degs
2	.25608	-76.09	Pk	56.1	-32.5	11.8	-40.69	-13	-27.69	0-360	101	0 degs
10	.25642	-77.72	Pk	56.1	-32.5	11.8	-42.32	-13	-29.32	0-360	101	Flat
6	.27997	-77.24	Pk	56.1	-32.5	11.8	-41.84	-13	-28.84	0-360	101	90 degs
3	.60725	-75.67	Pk	56.1	-32.5	11.8	-40.27	-13	-27.27	0-360	101	0 degs
11	.63029	-76.35	Pk	56.1	-32.5	11.8	-40.95	-13	-27.95	0-360	101	Flat
7	.63166	-76.39	Pk	56.1	-32.5	11.8	-40.99	-13	-27.99	0-360	101	90 degs
12	.91432	-76.81	Pk	56.1	-32.4	11.8	-41.31	-13	-28.31	0-360	101	Flat
8	.91531	-76.39	Pk	56.1	-32.4	11.8	-40.89	-13	-27.89	0-360	101	90 degs
4	.92203	-75.67	Pk	56.1	-32.4	11.8	-40.17	-13	-27.17	0-360	101	0 degs

Pk - Peak detector

**30-1000MHz**



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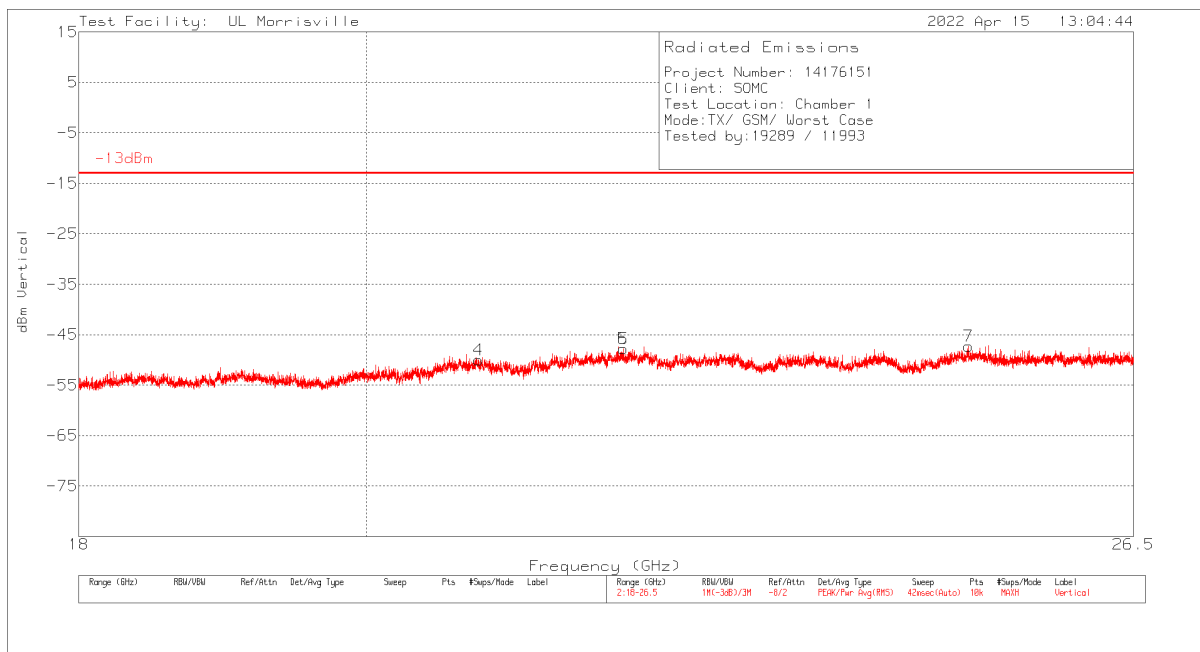
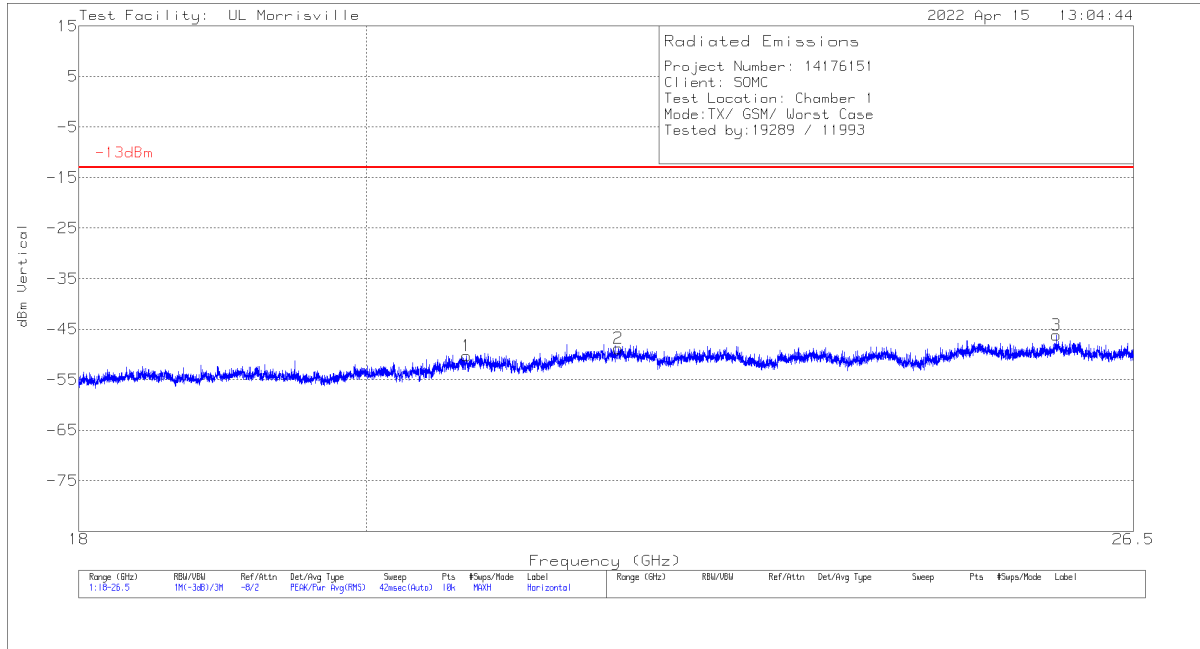


Rev 9.5 18 Oct 2021

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0081 (dB/m)	Amp/Cbl (dB)	Filter (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	31.358	-70.93	Pk	26.2	-31.3	.1	9.7	-66.23	-13	-53.23	0-360	100	V
1	32.037	-77.13	Pk	25.9	-31.3	.1	9.7	-72.73	-13	-59.73	0-360	100	H
2	96.057	-66.13	Pk	15.4	-30.2	.3	9.7	-70.93	-13	-57.93	0-360	100	H
5	134.081	-66.94	Pk	19.8	-29.7	.4	9.7	-66.74	-13	-53.74	0-360	100	V
3	173.463	-66.35	Pk	17.9	-29.2	.5	9.7	-67.45	-13	-54.45	0-360	100	H
6	173.657	-66.44	Pk	17.8	-29.2	.5	9.7	-67.64	-13	-54.64	0-360	100	V

Pk - Peak detector

**18-26GHz**

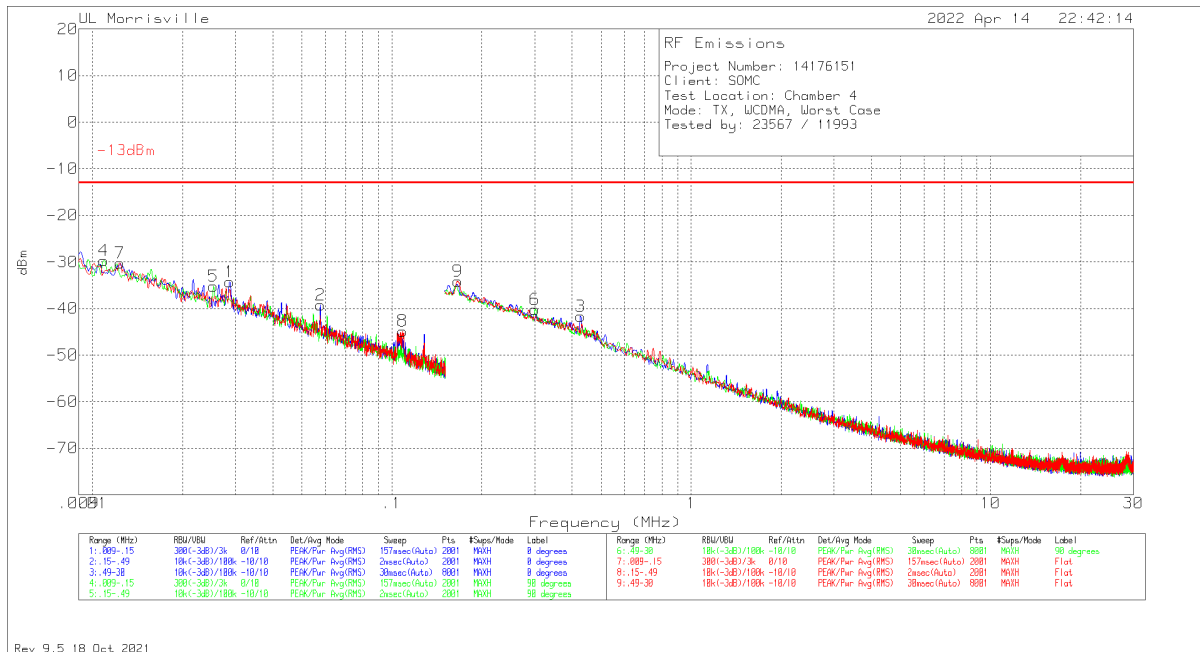


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	ANT (dB/m)	Amp/Cbl (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	20.75287	-56.63	Pk	34	-39.4	11.8	-50.23	-13	-37.23	0-360	250	H
4	20.84127	-56.1	Pk	34.1	-39.8	11.8	-50	-13	-37	0-360	101	V
2	21.93766	-57.44	Pk	36.7	-39.9	11.8	-48.84	-13	-35.84	0-360	101	H
5	21.98015	-57.12	Pk	36.9	-39.4	11.8	-47.82	-13	-34.82	0-360	150	V
6	21.98015	-57.12	Pk	36.9	-39.4	11.8	-47.82	-13	-34.82	0-360	150	V
7	24.94296	-55.72	Pk	35.1	-38.5	11.8	-47.32	-13	-34.32	0-360	201	V
3	25.76057	-55.27	Pk	35.2	-37.9	11.8	-46.17	-13	-33.17	0-360	101	H

Pk - Peak detector

## 11.2.2. WCDMA/3G

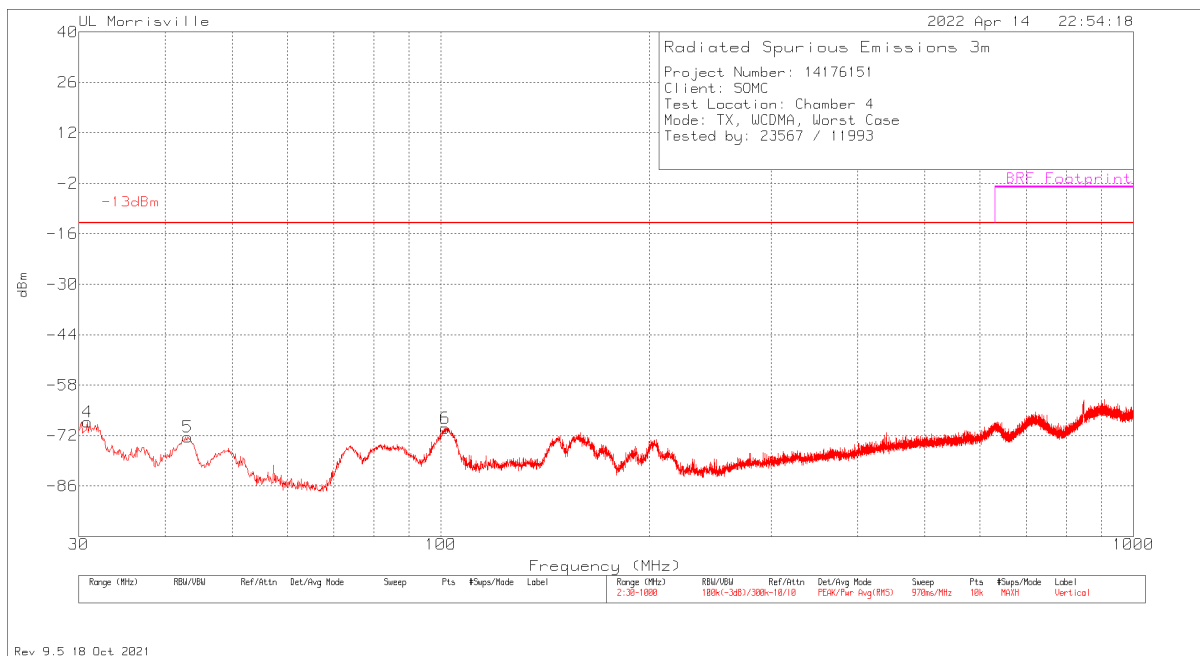
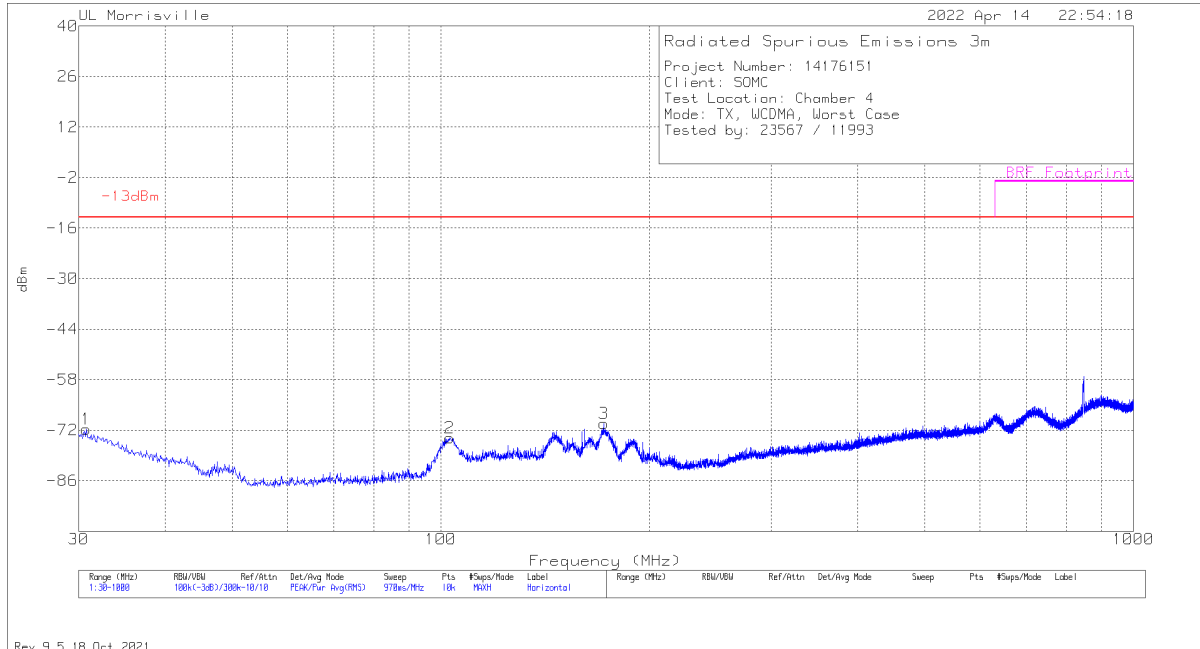
### Below 30MHz



Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0079 (dB/m)	Cbl (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Loop Angle
4	.01092	-59.59	Pk	18	.1	11.8	-29.69	-13	-16.69	0-360	100	90 degs
7	.01234	-59.61	Pk	17.4	.1	11.8	-30.31	-13	-17.31	0-360	100	Flat
5	.0254	-60.87	Pk	13.7	.1	11.8	-35.27	-13	-22.27	0-360	100	90 degs
1	.02874	-59.64	Pk	13.4	.1	11.8	-34.34	-13	-21.34	0-360	100	0 degs
2	.05778	-62.86	Pk	11.7	.1	11.8	-39.26	-13	-26.26	0-360	100	0 degs
8	.10854	-68.14	Pk	11.4	.1	11.8	-44.84	-13	-31.84	0-360	100	Flat
9	.16607	-57.28	Pk	11.2	.1	11.8	-34.18	-13	-21.18	0-360	100	Flat
6	.30113	-63.29	Pk	11.2	.1	11.8	-40.19	-13	-27.19	0-360	100	90 degs
3	.42719	-64.72	Pk	11.2	.1	11.8	-41.62	-13	-28.62	0-360	100	0 degs

Pk - Peak detector

**30-1000MHz**

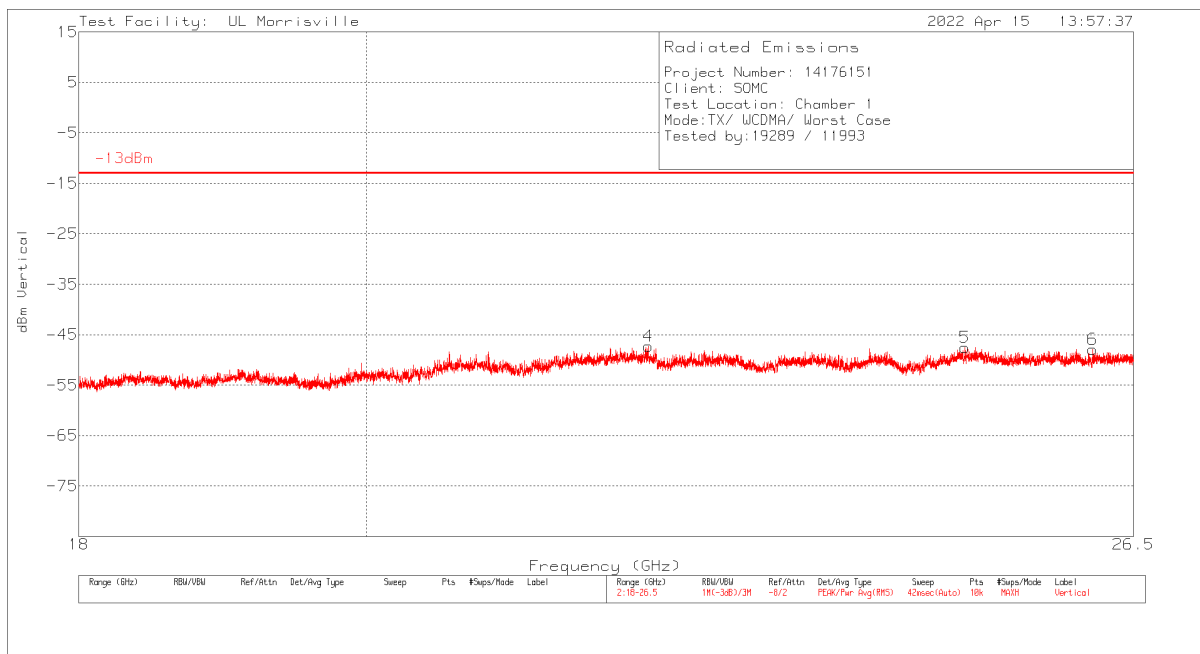
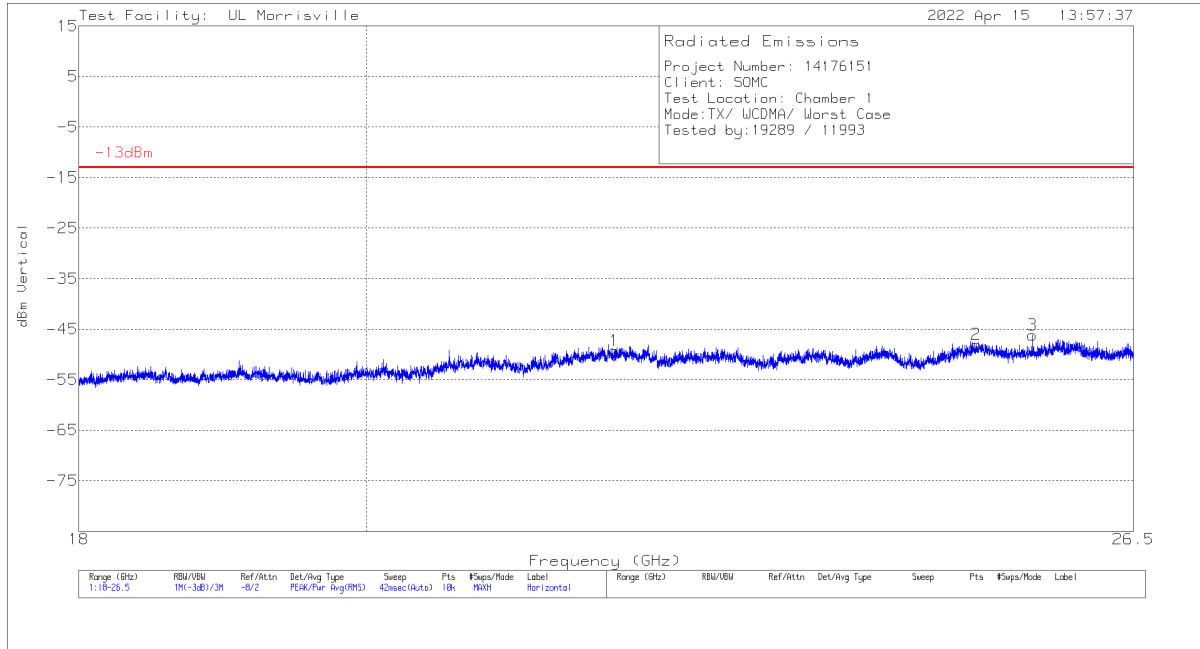


Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0081 (dB/m)	Amp/Cbl (dB)	Filter (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	BRF Footprint	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.776	-76.64	Pk	26.5	-31.3	.1	9.7	-71.64	-13	-58.64	-	-	0-360	300	H
4	30.873	-73.16	Pk	26.4	-31.3	.1	9.7	-68.26	-13	-55.26	-	-	0-360	100	V
5	43.095	-68.75	Pk	17.6	-31	.1	9.7	-72.35	-13	-59.35	-	-	0-360	100	V
6	101.392	-66.64	Pk	16.8	-30.1	.3	9.7	-69.94	-13	-56.94	-	-	0-360	100	V
2	103.041	-71.38	Pk	17.3	-30.1	.3	9.7	-74.18	-13	-61.18	-	-	0-360	200	H
3	171.814	-69	Pk	17.9	-29.3	.5	9.7	-70.2	-13	-57.2	-	-	0-360	100	H

PK - Peak detector



**18-26GHz**

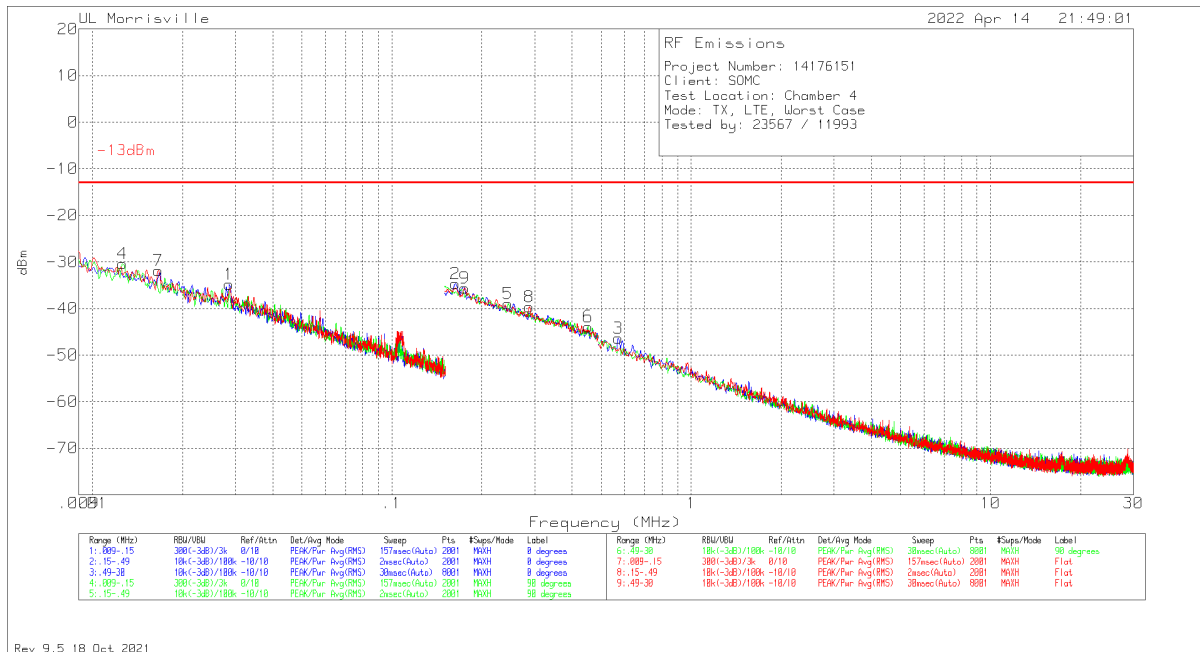


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	ANT (dB/m)	Amp/Cbl (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	21.90621	-58.1	Pk	36.5	-39.5	11.8	-49.3	-13	-36.3	0-360	300	H
4	22.18073	-56.54	Pk	36.9	-39.4	11.8	-47.24	-13	-34.24	0-360	101	V
5	24.90981	-55.67	Pk	35.1	-38.8	11.8	-47.57	-13	-34.57	0-360	200	V
2	25.0118	-56.47	Pk	35.1	-38.5	11.8	-48.07	-13	-35.07	0-360	150	H
3	25.5362	-55.53	Pk	35.1	-37.6	11.8	-46.23	-13	-33.23	0-360	300	H
6	26.10734	-57.57	Pk	35.4	-37.5	11.8	-47.87	-13	-34.87	0-360	101	V

PK - Peak detector

### 11.2.3. LTE/4G

#### Below 30MHz



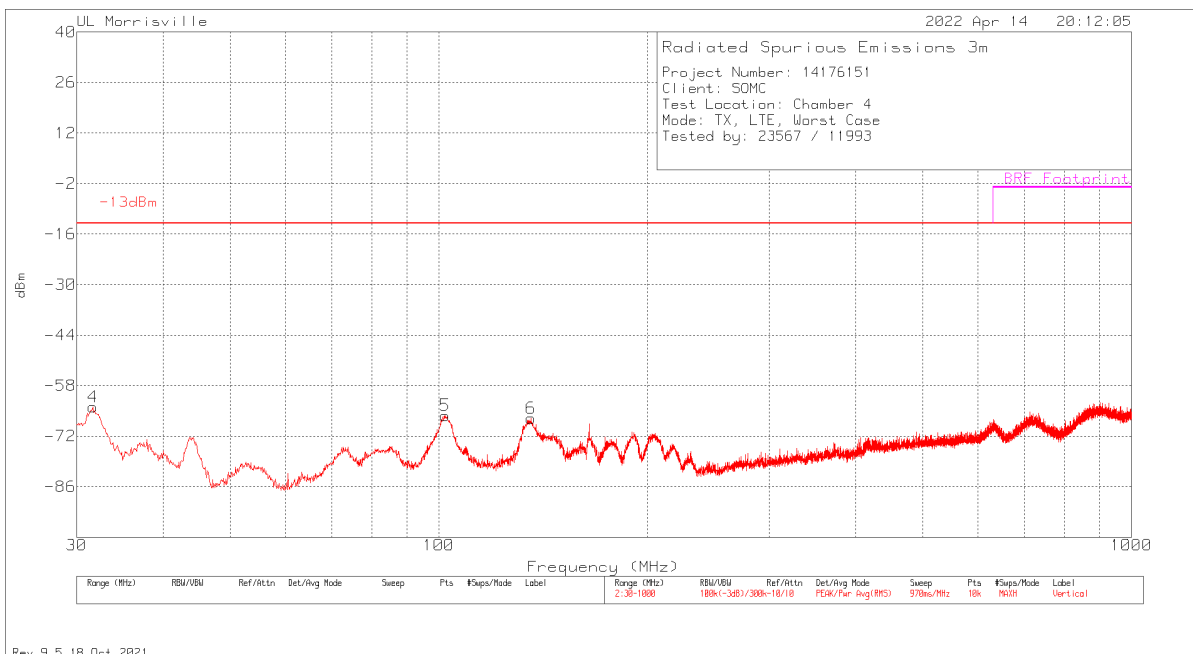
Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0079 (dB/m)	Cbl (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Loop Angle
4	.01262	-59.61	Pk	17.3	.1	11.8	-30.41	-13	-17.41	0-360	100	90 degs
7	.0166	-59.33	Pk	15.6	.1	11.8	-31.83	-13	-18.83	0-360	100	Flat
1	.02867	-60.18	Pk	13.4	.1	11.8	-34.88	-13	-21.88	0-360	100	0 degs
2	.16301	-57.8	Pk	11.2	.1	11.8	-34.7	-13	-21.7	0-360	100	0 degs
9	.17516	-58.78	Pk	11.2	.1	11.8	-35.68	-13	-22.68	0-360	100	Flat
5	.24469	-62.08	Pk	11.2	.1	11.8	-38.98	-13	-25.98	0-360	100	90 degs
8	.2877	-62.79	Pk	11.2	.1	11.8	-39.69	-13	-26.69	0-360	100	Flat
6	.45226	-67	Pk	11.2	.1	11.8	-43.9	-13	-30.9	0-360	100	90 degs
3	.57116	-69.56	Pk	11.2	.2	11.8	-46.36	-13	-33.36	0-360	100	0 degs

Pk - Peak detector

**30-1000MHz**



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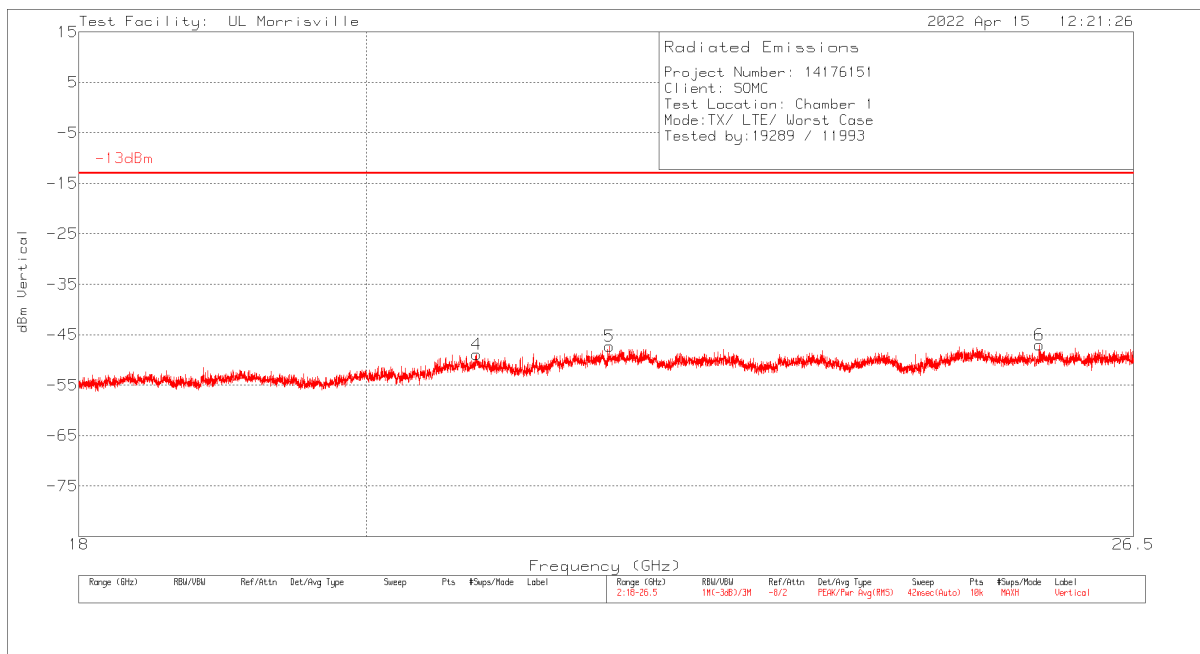
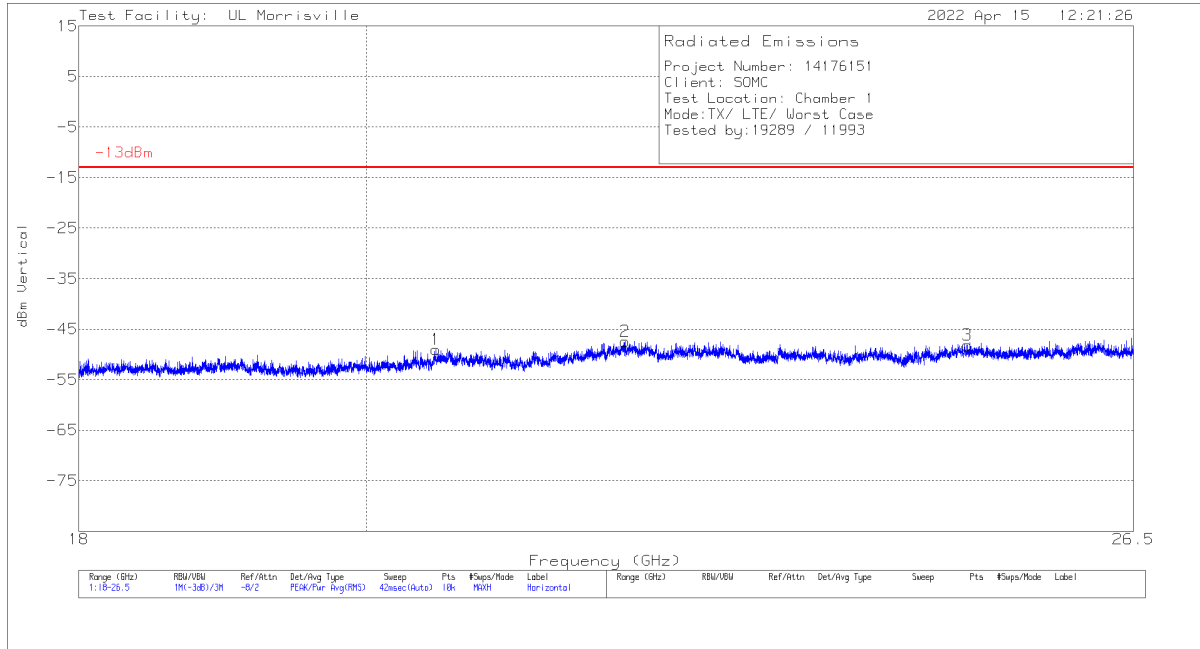


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Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0081 (dB/m)	Amp/Cbl (dB)	Filter (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	31.649	-68.45	Pk	26	-31.3	.1	9.7	-63.95	-13	-50.95	0-360	100	V
5	102.168	-63.25	Pk	17.1	-30.1	.3	9.7	-66.25	-13	-53.25	0-360	100	V
1	102.556	-66.14	Pk	17.2	-30.1	.3	9.7	-69.04	-13	-56.04	0-360	200	H
6	135.827	-66.98	Pk	19.6	-29.7	.4	9.7	-66.98	-13	-53.98	0-360	100	V
2	136.215	-66.27	Pk	19.6	-29.7	.4	9.7	-66.27	-13	-53.27	0-360	200	H
3	161.823	-63.88	Pk	18.5	-29.4	.5	9.7	-64.58	-13	-51.58	0-360	100	H

Pk - Peak detector

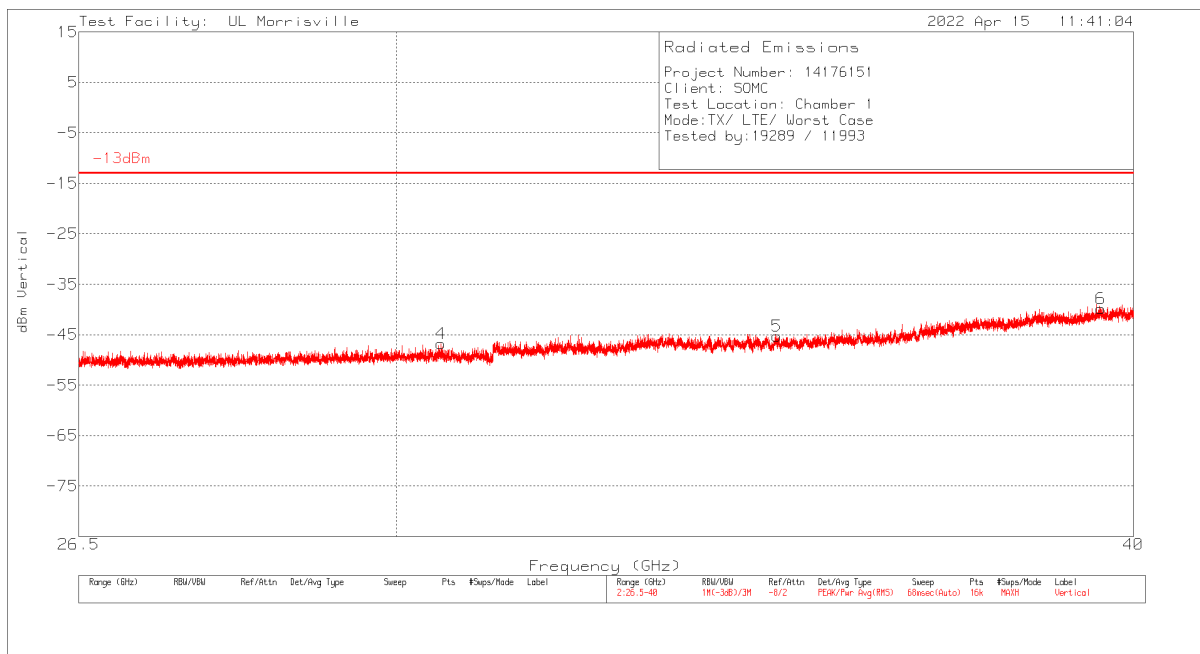
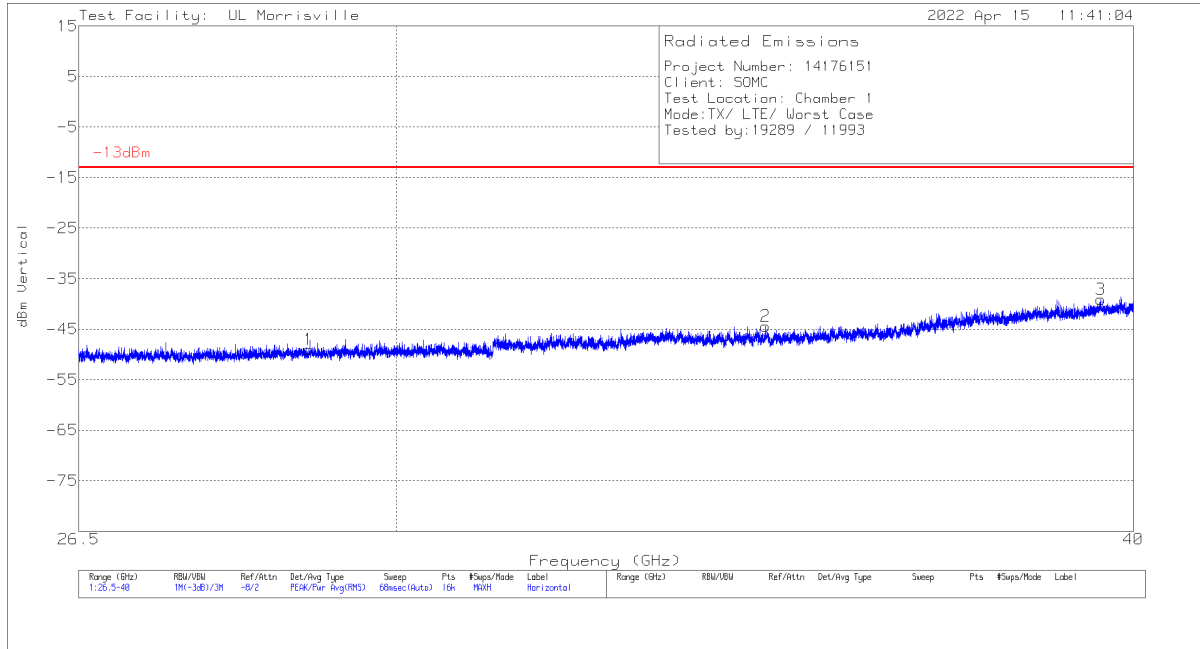
**18-26GHz**



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	ANT (dB/m)	Amp/Cbl (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	20.51915	-55.59	Pk	33.9	-39.1	11.8	-48.99	-13	-35.99	0-360	249	H
4	20.82682	-55.73	Pk	34	-39	11.8	-48.93	-13	-35.93	0-360	250	V
5	21.86711	-56.13	Pk	36.3	-39.3	11.8	-47.33	-13	-34.33	0-360	101	V
2	21.9912	-56.17	Pk	36.9	-40	11.8	-47.47	-13	-34.47	0-360	150	H
3	24.93361	-56.63	Pk	35.1	-38.4	11.8	-48.13	-13	-35.13	0-360	299	H
6	25.59994	-56.17	Pk	35.2	-37.9	11.8	-47.07	-13	-34.07	0-360	200	V

PK - Peak detector

**26-40GHz**

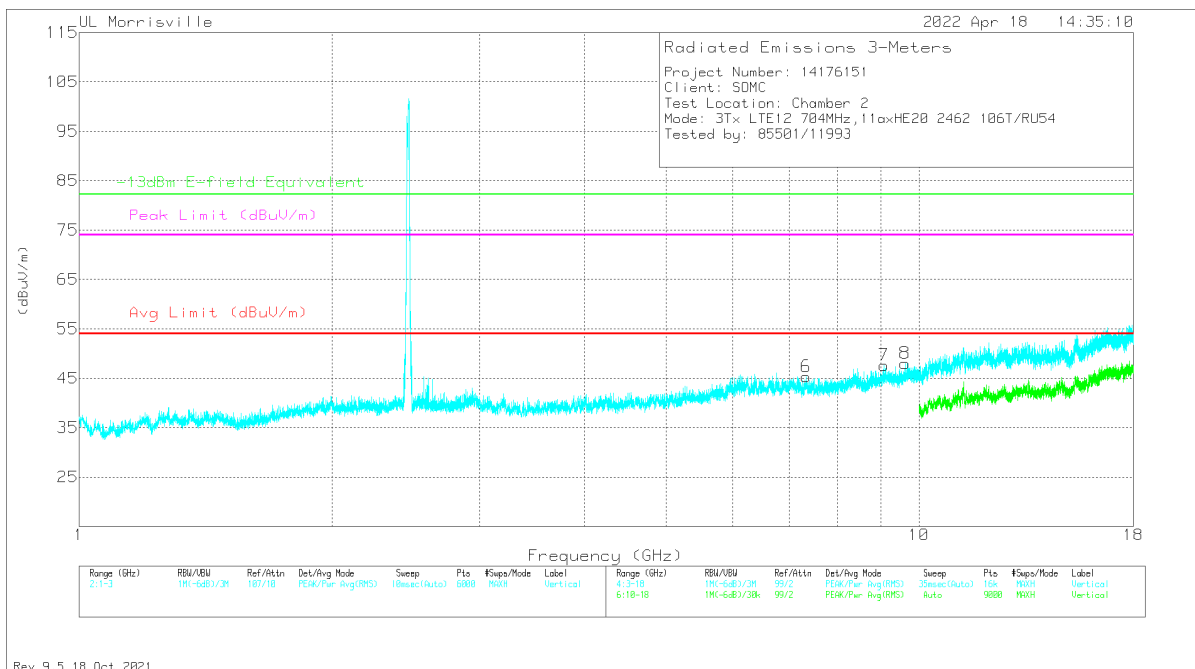
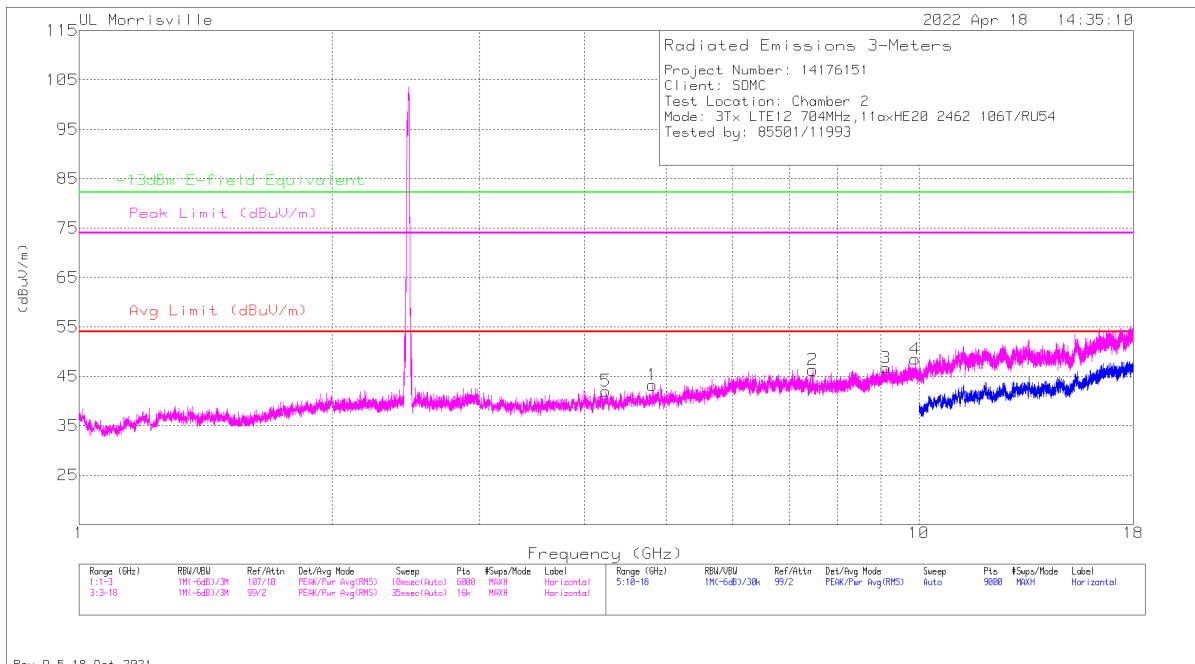


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	ANT (dB/m)	Amp/Cbl (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	28.98722	-60.06	Pk	36.2	-37	11.8	-49.06	-13	-36.06	0-360	149	H
4	30.52612	-58.75	Pk	36.6	-36.5	11.8	-46.85	-13	-33.85	0-360	150	V
2	34.65011	-56.88	Pk	37.9	-37.2	11.8	-44.38	-13	-31.38	0-360	200	H
5	34.80282	-57.24	Pk	38	-37.9	11.8	-45.34	-13	-32.34	0-360	300	V
3	39.49293	-55.74	Pk	38.8	-34	11.8	-39.14	-13	-26.14	0-360	149	H
6	39.498	-56.19	Pk	38.8	-34.2	11.8	-39.79	-13	-26.79	0-360	300	V

PK - Peak detector

### 11.3. SIMULTANEOUS TRANSMISSION

#### 11.3.1. LTE Band 12, 2.4WLAN HE20 106T RU54 – 3Tx



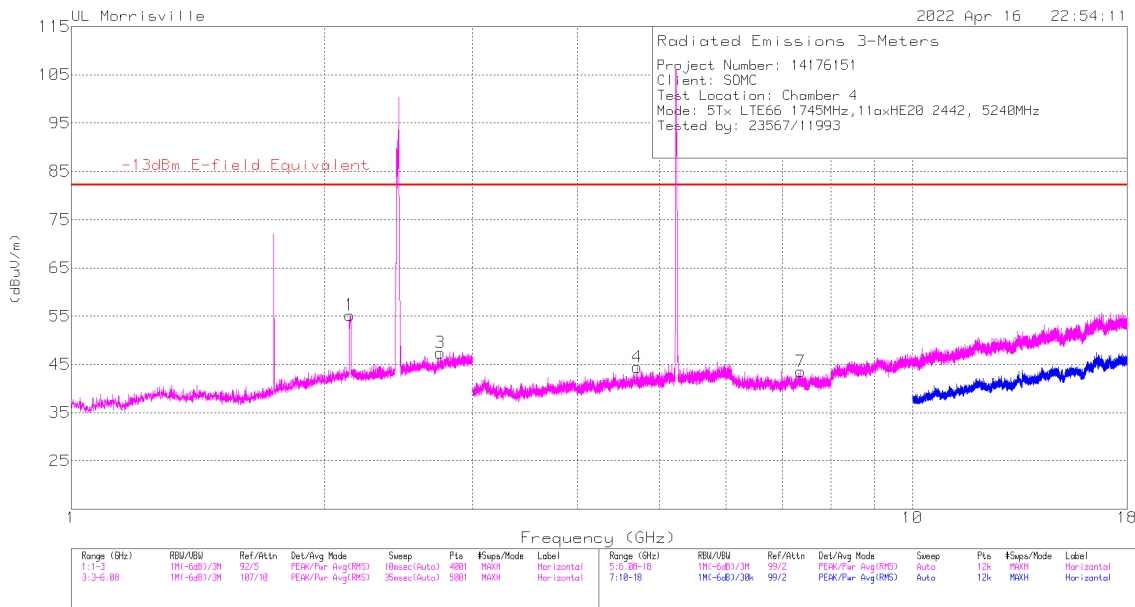
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Fltr (dB)	Filter (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	-13dBm E-field Equivalent	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 4.81219	38.92	Pk	34.1	-30.1	.3	43.22	-	-	74	-30.78	82.2	-38.98	0-360	101	H
2	*** 7.47375	36.89	Pk	35.6	-26.8	.6	46.29	-	-	74	-27.71	82.2	-35.91	0-360	101	H
3	*** 9.13781	35.19	Pk	36.3	-25.3	.5	46.69	-	-	74	-27.31	82.2	-35.51	0-360	101	H
5	*** 4.23656	38.31	Pk	33.7	-30.4	.4	42.01	-	-	74	-31.99	82.2	-40.19	0-360	200	H
6	*** 7.33875	35.52	Pk	35.7	-26.5	.6	45.32	-	-	74	-28.68	82.2	-36.88	0-360	101	V
7	*** 9.08906	36.27	Pk	36.3	-25.6	.7	47.67	-	-	74	-26.33	82.2	-34.53	0-360	101	V
8	9.62625	35.92	Pk	36.9	-25.7	.9	48.02	-	-	-	-	82.2	-34.18	0-360	101	V
4	9.89438	36.09	Pk	36.8	-25.3	.9	48.49	-	-	-	-	82.2	-33.71	0-360	101	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

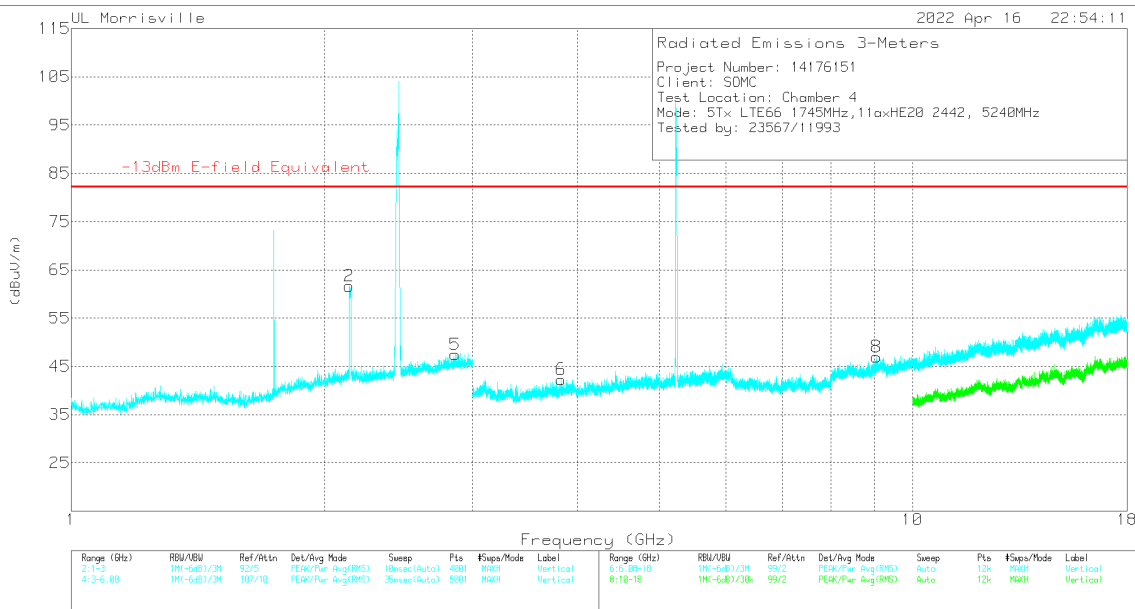
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

### 11.3.2. LTE Band 66, 2.4 WLAN HE20 26T RU8, 5.2 WLAN HE20 26T RU0 – 5Tx



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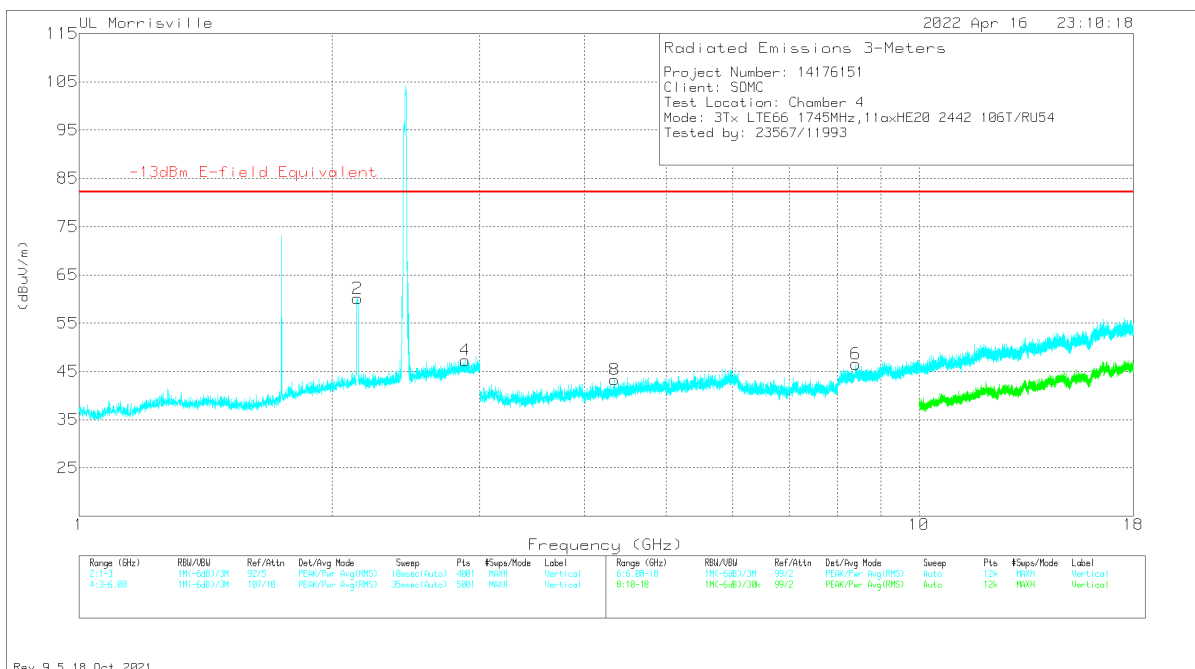
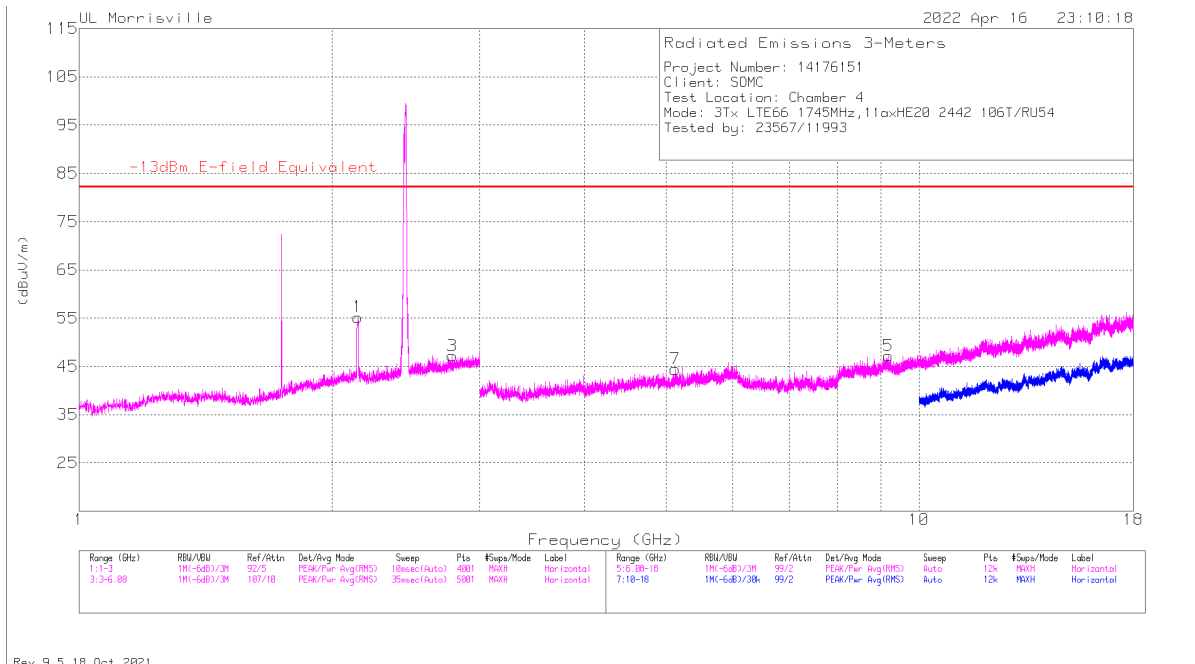
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	Corrected Reading (dBuV/m)	-13dBm E-field Equivalent	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	** 2.1445 (DL)	36.6	Pk	31.8	-14.2	1	55.2		-	0-360	100	H
3	* ** 2.7455	28.11	Pk	32.1	-13.2	.4	47.41	82.2	-34.79	0-360	100	H
2	** 2.141	43.03	Pk	31.8	-14.2	1	61.63			0-360	200	V
5	* ** 2.86	27.44	Pk	32.5	-12.9	.4	47.44	82.2	-34.76	0-360	200	V
4	* ** 4.70447	41.51	Pk	34	-32.2	1.1	44.41	82.2	-37.79	0-360	100	H
6	* ** 3.8199	42.26	Pk	33.4	-33.8	.4	42.26	82.2	-39.94	0-360	200	V
7	* ** 7.3614	35.65	Pk	35.4	-28.1	.6	43.55	82.2	-38.65	0-360	100	H
8	* ** 9.06099	36.46	Pk	36.2	-26.1	.4	46.96	82.2	-35.24	0-360	200	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

### 11.3.3. LTE Band 66, 2.4WLAN HE20 106T RU54 – 3Tx



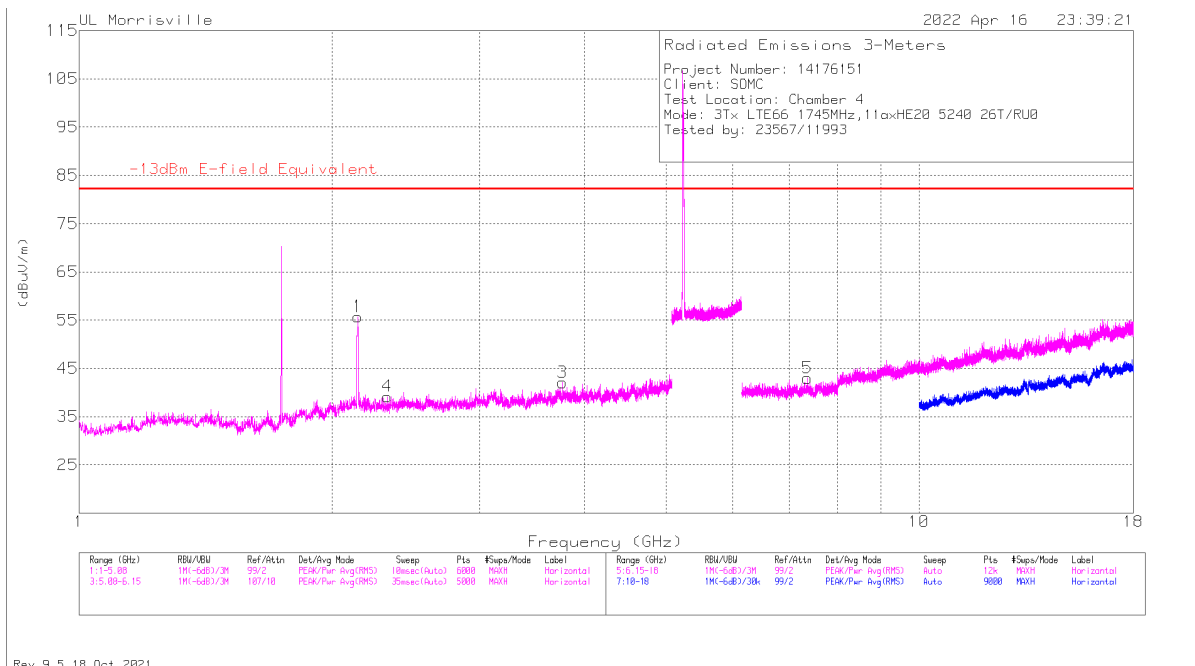
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0069 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Filter (dB)	Corrected Reading (dBuV/m)	-13dBm E-field Equivalent	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	** 2.1475 (DL)	36.61	Pk	31.8	-14.2	1	55.21			0-360	100	H
3	*** 2.7815	27.58	Pk	32.3	-13.1	.4	47.18	82.2	-35.02	0-360	100	H
2	** 2.145 (DL)	41.48	Pk	31.8	-14.2	1	60.08			0-360	200	V
4	*** 2.881	27.28	Pk	32.4	-12.8	.4	47.28	82.2	-34.92	0-360	200	V
7	*** 5.12643	41.22	Pk	34	-31.9	1.1	44.42	82.2	-37.78	0-360	100	H
8	*** 4.34165	41.87	Pk	33.4	-32.6	.6	43.27	82.2	-38.93	0-360	200	V
5	*** 9.19609	37.08	Pk	36.3	-26.6	.4	47.18	82.2	-35.02	0-360	100	H
6	*** 8.41036	37.51	Pk	35.7	-27.5	.8	46.51	82.2	-35.69	0-360	200	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

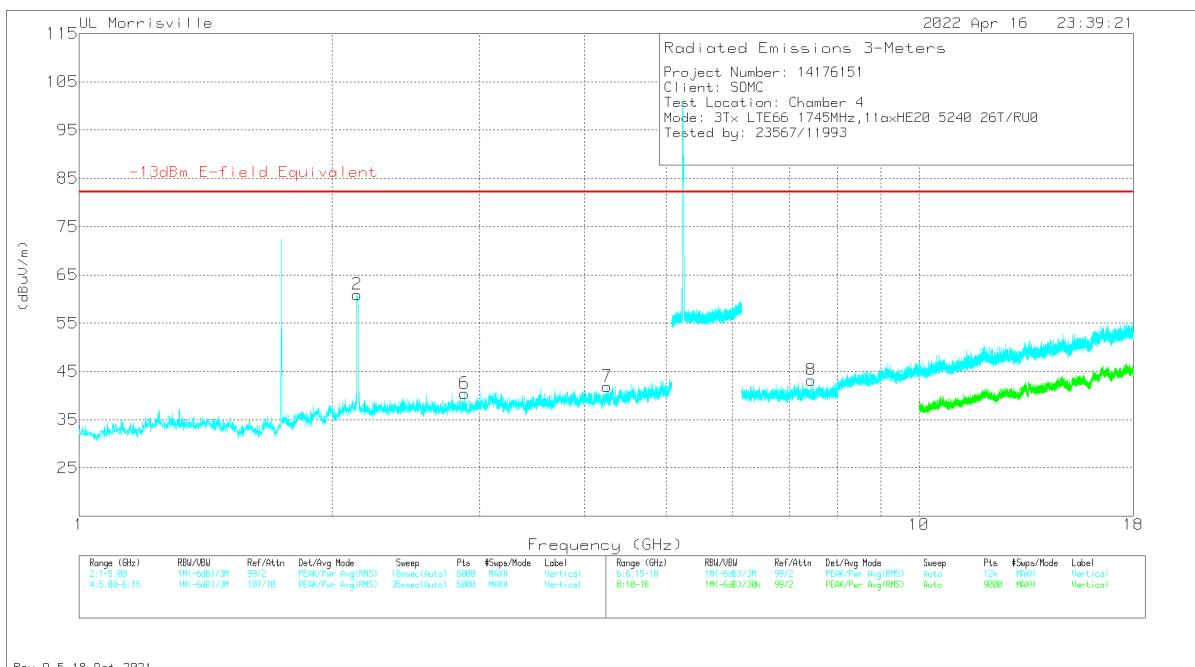
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

### 11.3.4. LTE Band 66, 5.2 WLAN HE20 26T RU0 – 3Tx



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\Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0069 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Filter (dB)	Corrected Reading (dBuV/m)	-13dBm E-field Equivalent	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	** 2.14735 (DL)	59.32	Pk	31.8	-36.4	1	55.72			0-360	100	H
3	*** 3.76466	42.08	Pk	33.3	-33.9	.6	42.08	82.2	-40.12	0-360	100	H
4	*** 2.32894	42.97	Pk	31.8	-36.2	.6	39.17	82.2	-43.03	0-360	100	H
2	** 2.14259 (DL)	64.55	Pk	31.8	-36.4	1	60.95			0-360	200	V
6	*** 2.87847	43.46	Pk	32.4	-35.8	.4	40.46	82.2	-41.74	0-360	200	V
7	*** 4.25366	40.58	Pk	33.3	-32.4	.4	41.88	82.2	-40.32	0-360	200	V
5	*** 7.36858	35.58	Pk	35.4	-28	0	42.98	82.2	-39.22	0-360	100	H
8	*** 7.44264	36.72	Pk	35.4	-28.9	0	43.22	82.2	-38.98	0-360	200	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

## 12. SETUP PHOTOS

Please refer to UL Report R14176151-EP1 for Setup Photos.

**END OF REPORT**