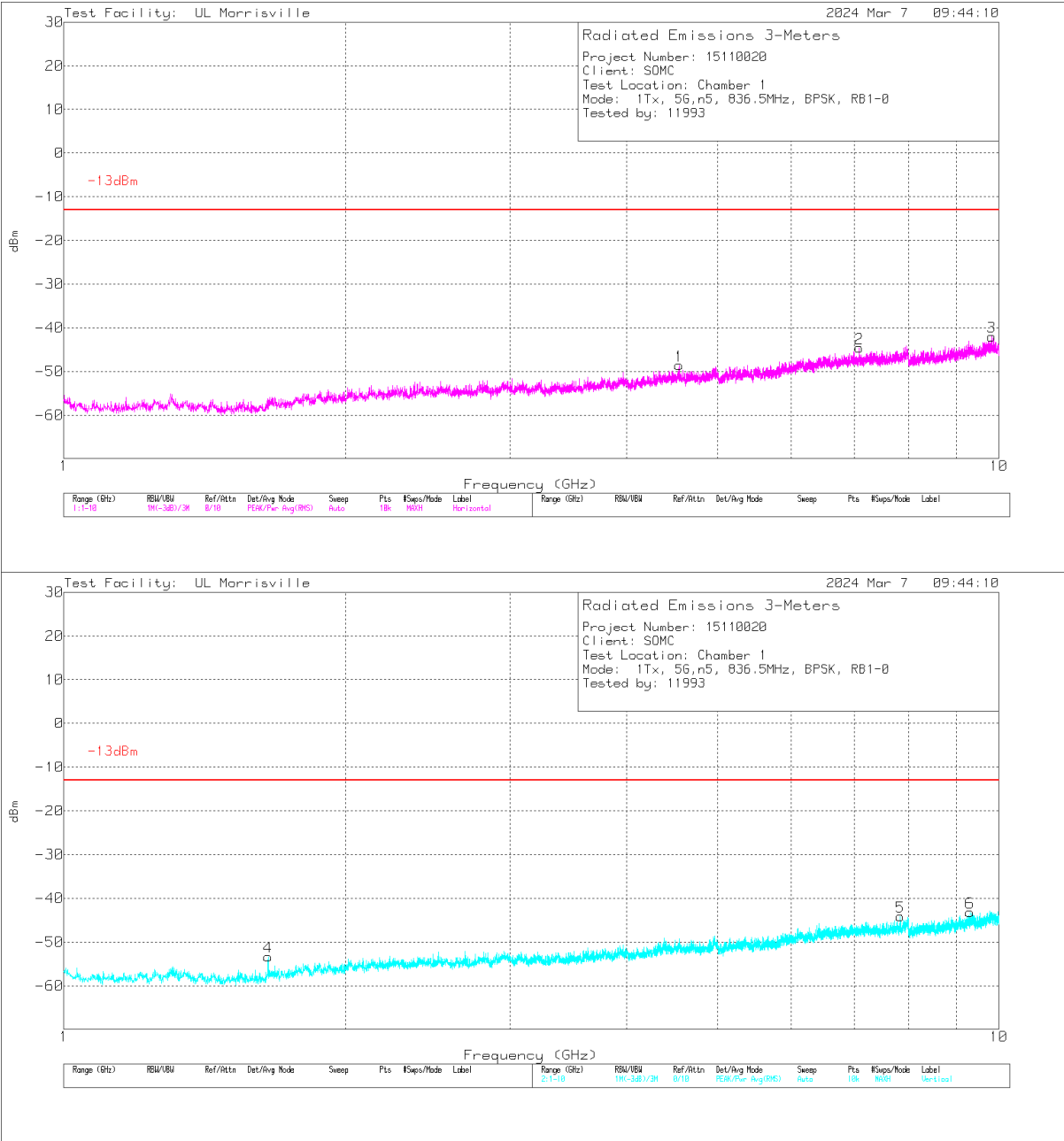


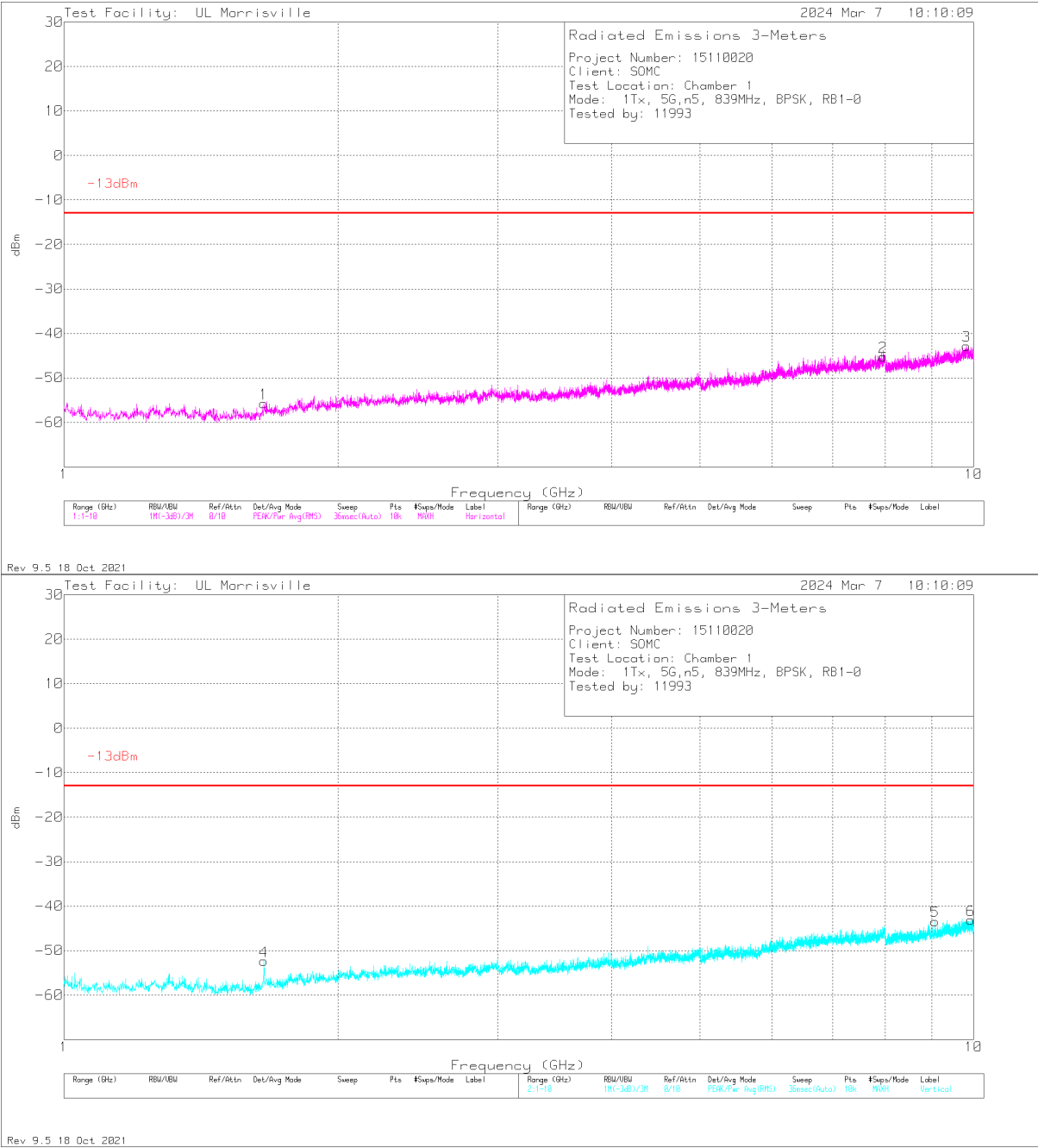
BPSK 5G NR N5 (20MHz, Mid Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.6543	-59.84	Pk	28.7	-34.4	.4	11.8	-53.34	-13	-40.34	0-360	300	V
1	4.5514	-63.42	Pk	34.1	-31.5	.4	11.8	-48.62	-13	-35.62	0-360	300	H
2	7.0894	-64.71	Pk	35.6	-27.7	.4	11.8	-44.61	-13	-31.61	0-360	200	H
5	7.8454	-64.87	Pk	35.7	-27.2	.4	11.8	-44.17	-13	-31.17	0-360	200	V
6	9.3115	-65.89	Pk	36.3	-25.9	.5	11.8	-43.19	-13	-30.19	0-360	200	V
3	9.8245	-66.17	Pk	37.1	-25	.3	11.8	-41.97	-13	-28.97	0-360	200	H

Pk - Peak detector

BPSK 5G NR N5 (20MHz, High Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.6588	-62.25	Pk	28.7	-34.4	.4	11.8	-55.75	-13	-42.75	0-360	300	H
4	1.6588	-58.88	Pk	28.7	-34.4	.4	11.8	-52.38	-13	-39.38	0-360	300	V
2	7.948	-66.06	Pk	35.8	-27.2	.4	11.8	-45.26	-13	-32.26	0-360	101	H
5	9.0667	-65.51	Pk	35.9	-26	.4	11.8	-43.41	-13	-30.41	0-360	300	V
3	9.8245	-66.99	Pk	37.1	-25	.3	11.8	-42.79	-13	-29.79	0-360	199	H
6	9.9289	-67.72	Pk	37.3	-25	.5	11.8	-43.12	-13	-30.12	0-360	200	V

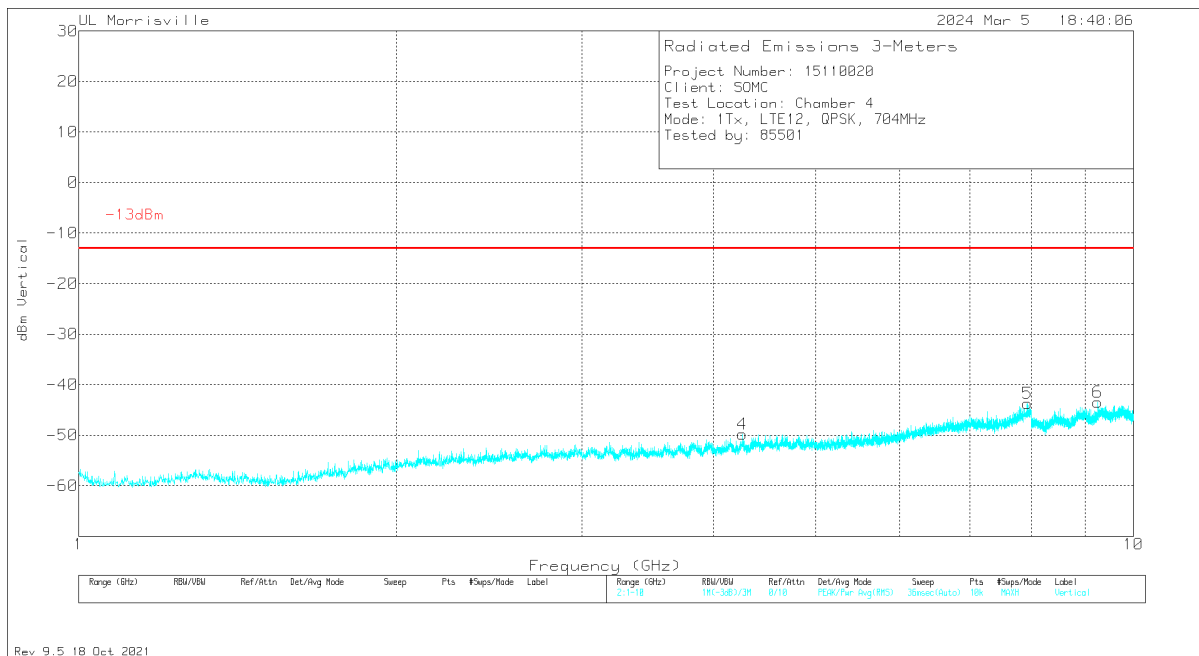
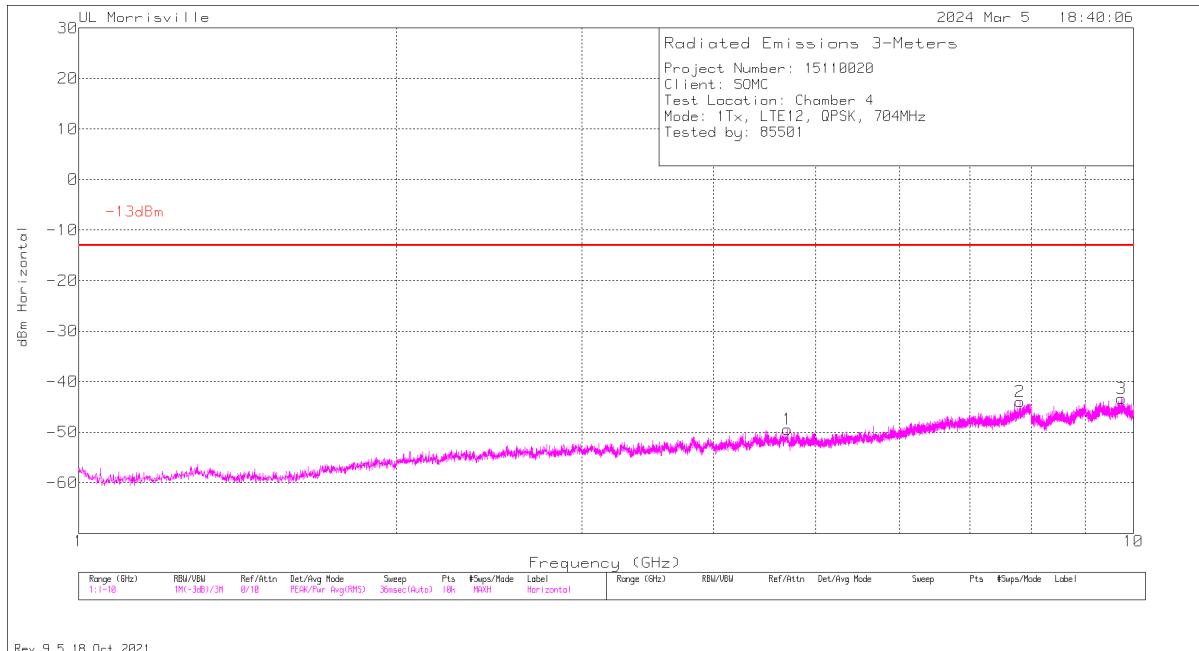
Pk - Peak detector

10.1.6. LTE BAND 12**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.

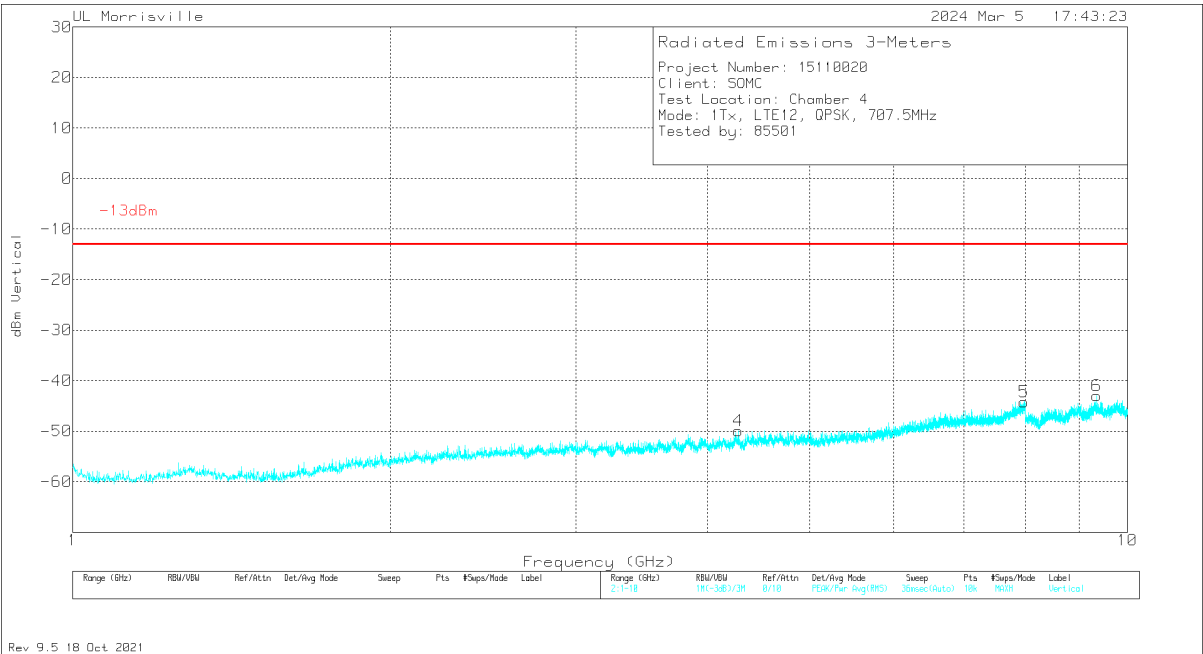
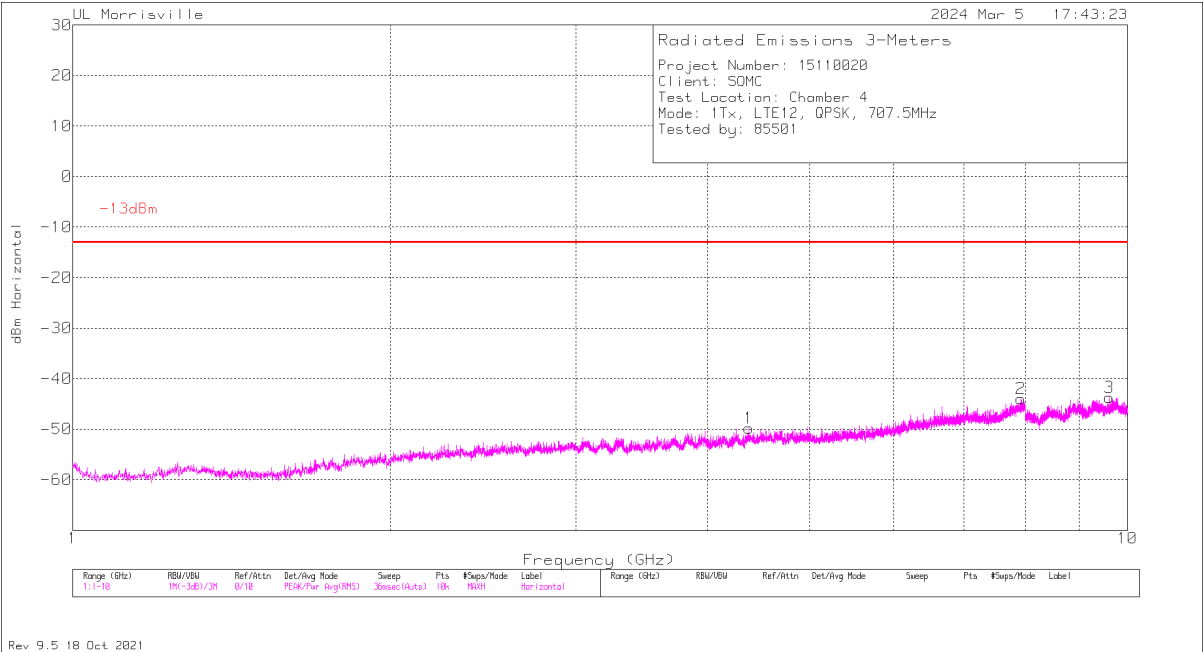
EUT Serial Number:	QV7700P4LQ
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QPSK LTE BAND 12 (10MHz, Low Channel)

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	4.2562	-63.28	Pk	33.4	-32.4	.7	11.8	-49.78	-13	-36.78	0-360	200	V
1	4.6972	-63.69	Pk	34.1	-31.9	.3	11.8	-49.39	-13	-36.39	0-360	100	H
2	7.8058	-63.92	Pk	35.8	-28	.4	11.8	-43.92	-13	-30.92	0-360	100	H
5	7.9399	-63.76	Pk	35.8	-28	.4	11.8	-43.76	-13	-30.76	0-360	200	V
6	9.244	-65.98	Pk	36.4	-26.1	.4	11.8	-43.48	-13	-30.48	0-360	300	V
3	9.7372	-66.38	Pk	36.9	-26.2	.5	11.8	-43.38	-13	-30.38	0-360	200	H

Pk - Peak detector

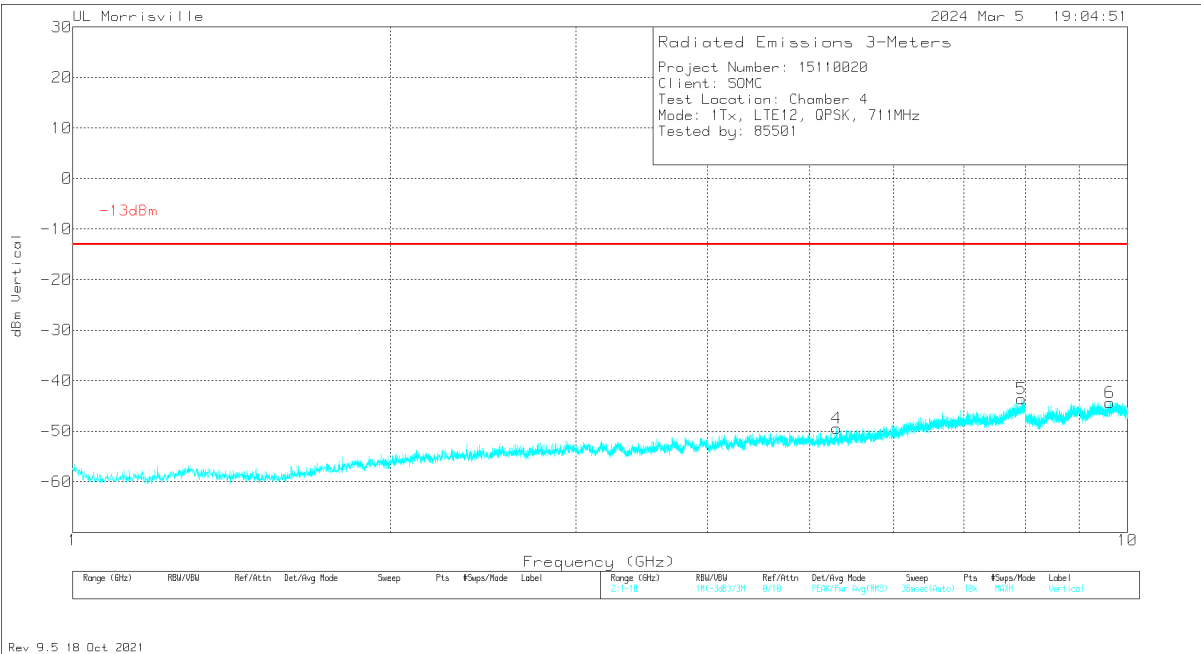
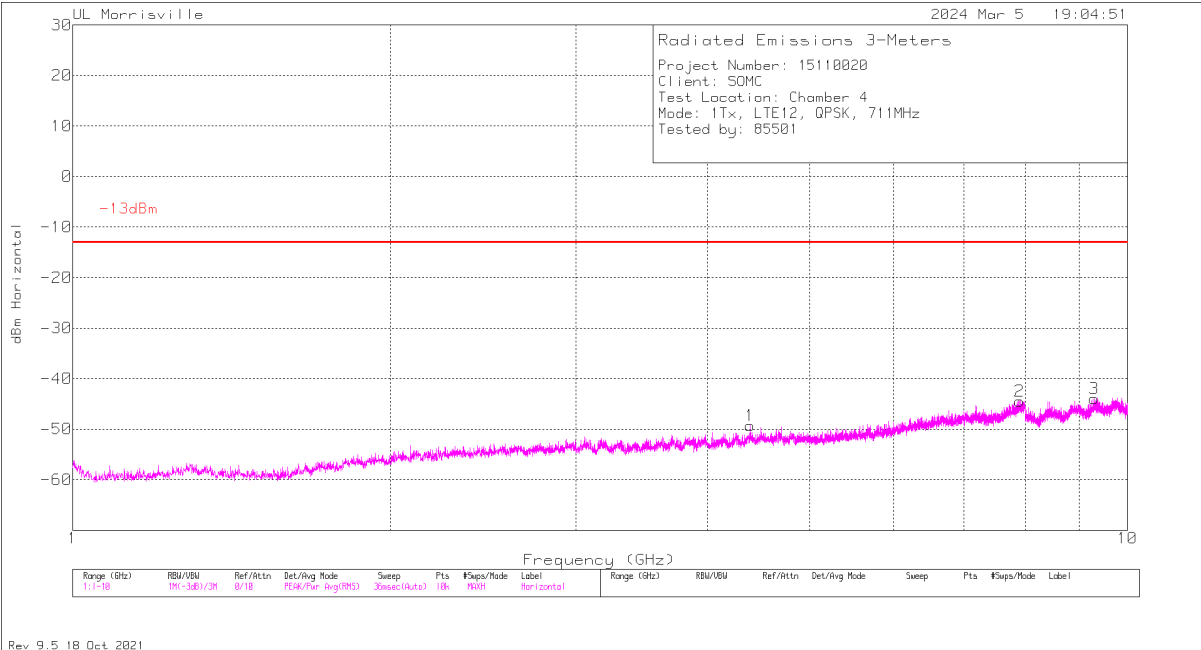
QPSK LTE BAND 12 (10MHz, Mid Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	4.276	-63.29	Pk	33.4	-32.3	.5	11.8	-49.89	-13	-36.89	0-360	200	V
1	4.3732	-63.92	Pk	33.6	-32	.7	11.8	-49.82	-13	-36.82	0-360	100	H
2	7.9201	-64.19	Pk	35.8	-27.8	.4	11.8	-43.99	-13	-30.99	0-360	100	H
5	7.9741	-64.06	Pk	35.8	-28.2	.4	11.8	-44.26	-13	-31.26	0-360	300	V
6	9.3565	-65.85	Pk	36.5	-25.7	.3	11.8	-42.95	-13	-29.95	0-360	200	V
3	9.6103	-66.66	Pk	36.8	-26.2	.5	11.8	-43.76	-13	-30.76	0-360	100	H

PK - Peak detector

QPSK LTE BAND 12 (10MHz, High Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	4.3876	-63.55	Pk	33.7	-32	.7	11.8	-49.35	-13	-36.35	0-360	200	H
4	5.2966	-63.97	Pk	34.3	-31.8	.3	11.8	-49.37	-13	-36.37	0-360	200	V
2	7.9057	-64.47	Pk	35.8	-28	.4	11.8	-44.47	-13	-31.47	0-360	200	H
5	7.9372	-63.64	Pk	35.8	-27.9	.4	11.8	-43.54	-13	-30.54	0-360	200	V
3	9.3025	-67.12	Pk	36.4	-25.7	.6	11.8	-44.02	-13	-31.02	0-360	200	H
6	9.6256	-66.8	Pk	36.8	-26.5	.4	11.8	-44.3	-13	-31.3	0-360	300	V

Pk - Peak detector

10.1.7. LTE BAND 13**LIMITS**

FCC: §27.53

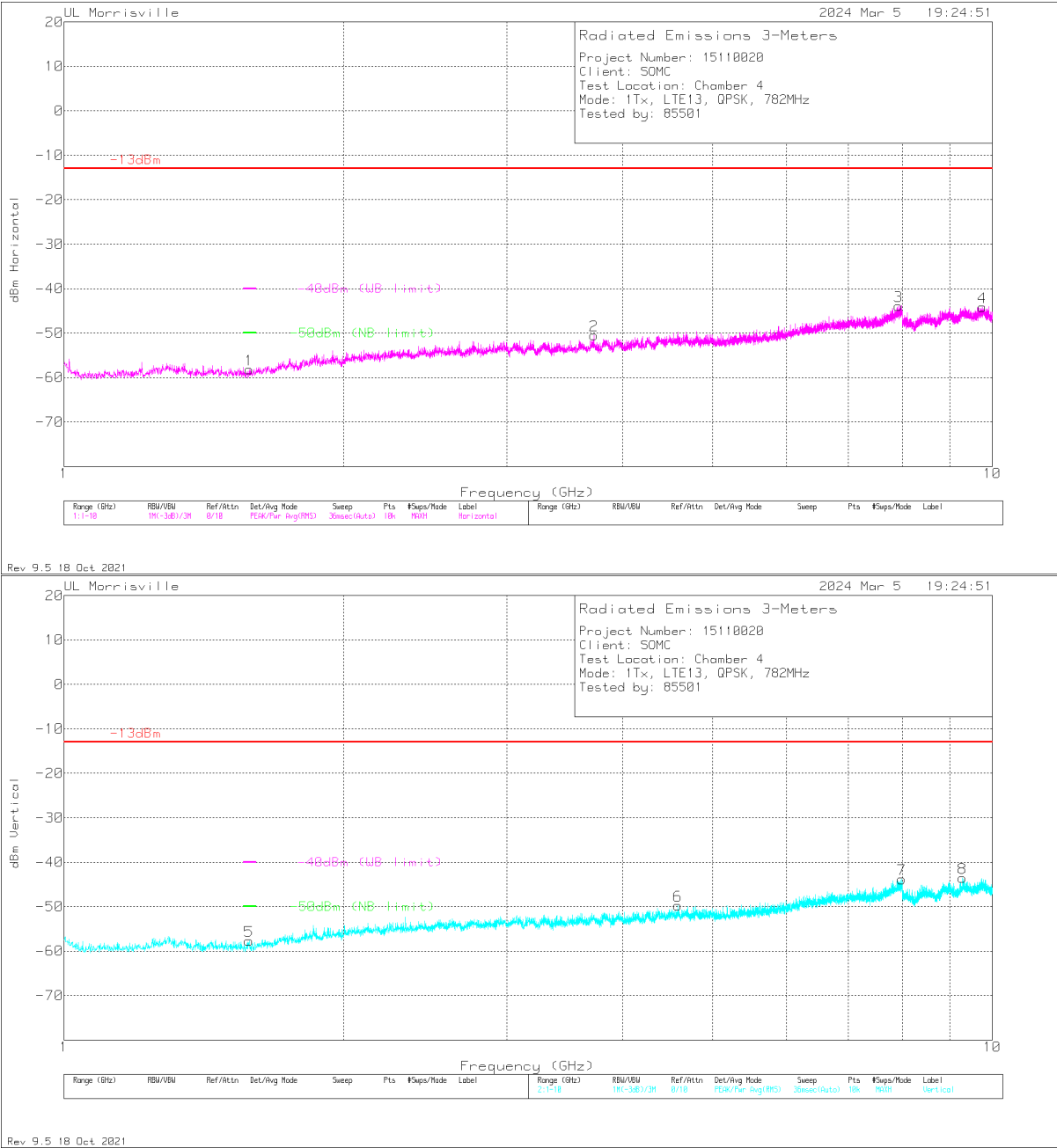
(c) The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

(f) Emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

Note: Emissions in the GPS band were wideband emissions therefore the -40dBm/MHz limit was used.

EUT Serial Number:	QV7700P4LQ
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QPSK LTE BAND 13 (10MHz, Mid Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	89509 ACF (dB/m)	Gain/Loss (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
5	1.5823	-61.78	Pk	27.9	-36.2	.6	11.8	-57.68	-13	-44.68	-40	-17.68	-50	-7.68	0-360	300	V
1	1.5841	-62.4	Pk	27.9	-36.1	.6	11.8	-58.2	-13	-45.2	-40	-18.2	-50	-8.2	0-360	200	H
2	3.7216	-62.15	Pk	33.1	-33.9	.7	11.8	-50.45	-13	-37.45	-	-	-	-	0-360	200	H
6	4.5856	-63.82	Pk	34	-31.9	.2	11.8	-49.72	-13	-36.72	-	-	-	-	0-360	200	V
3	7.9219	-64.04	Pk	35.8	-27.9	.4	11.8	-43.94	-13	-30.94	-	-	-	-	0-360	100	H
7	7.9912	-63.94	Pk	35.8	-27.9	.4	11.8	-43.84	-13	-30.84	-	-	-	-	0-360	300	V
8	9.2872	-66.28	Pk	36.4	-26.1	.6	11.8	-43.58	-13	-30.58	-	-	-	-	0-360	300	V
4	9.7615	-67.24	Pk	36.9	-26.1	.5	11.8	-44.14	-13	-31.14	-	-	-	-	0-360	100	H

Pk - Peak detector

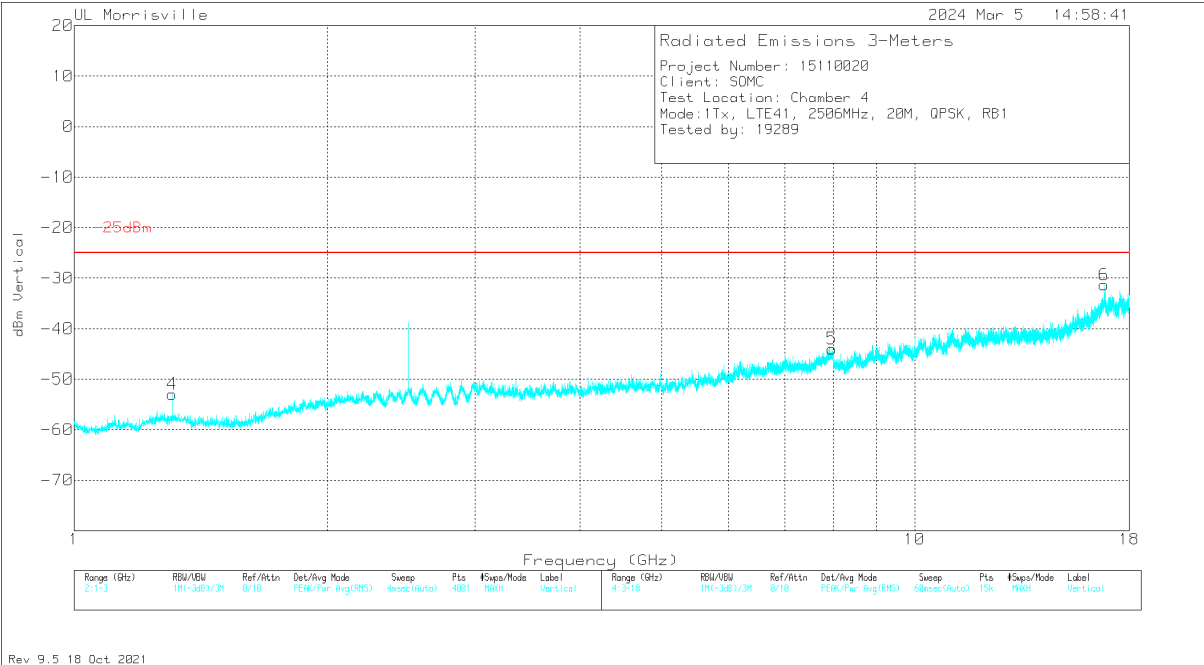
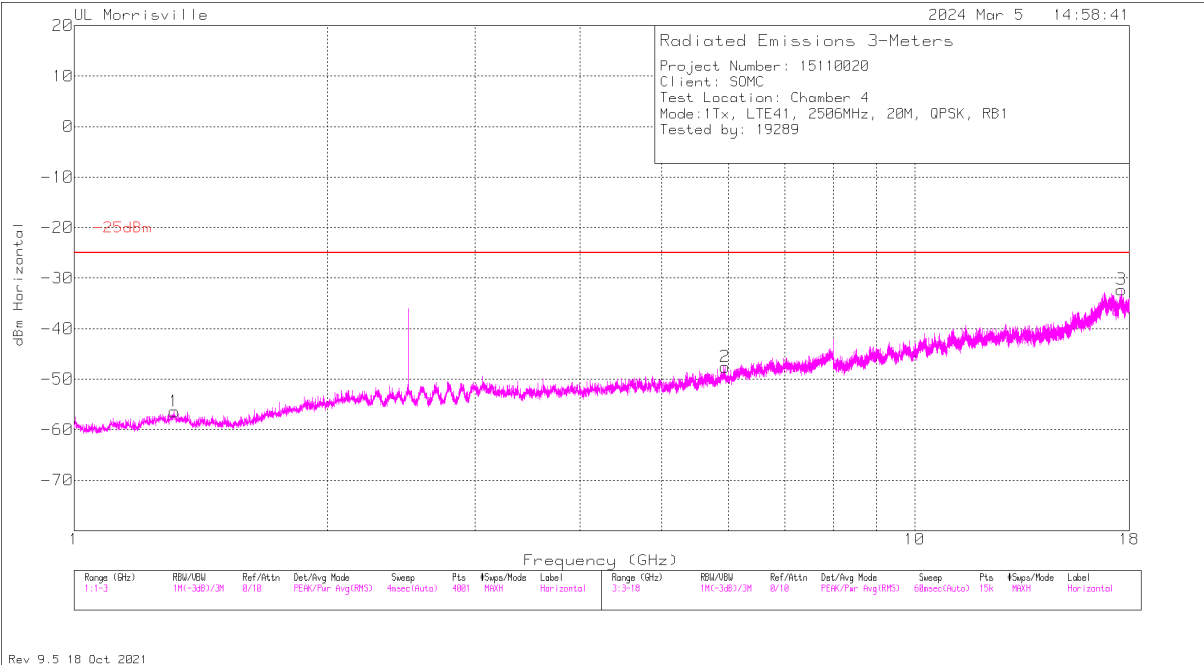
10.1.8. LTE BAND 41

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.

EUT Serial Number:	QV7700P4LQ
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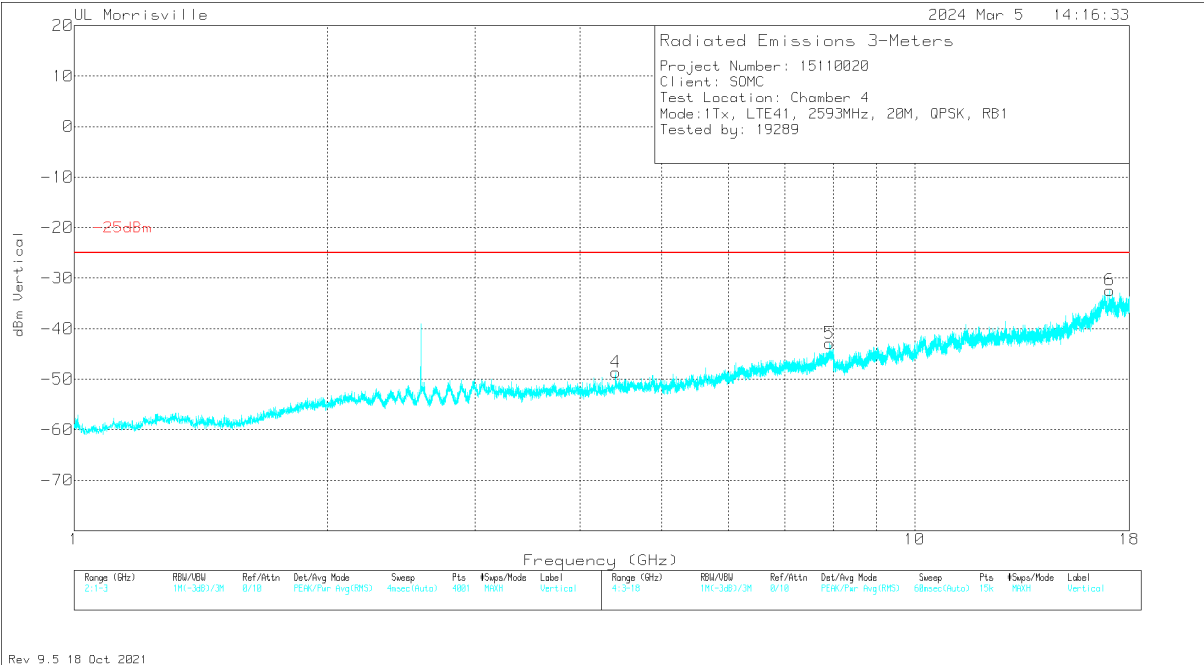
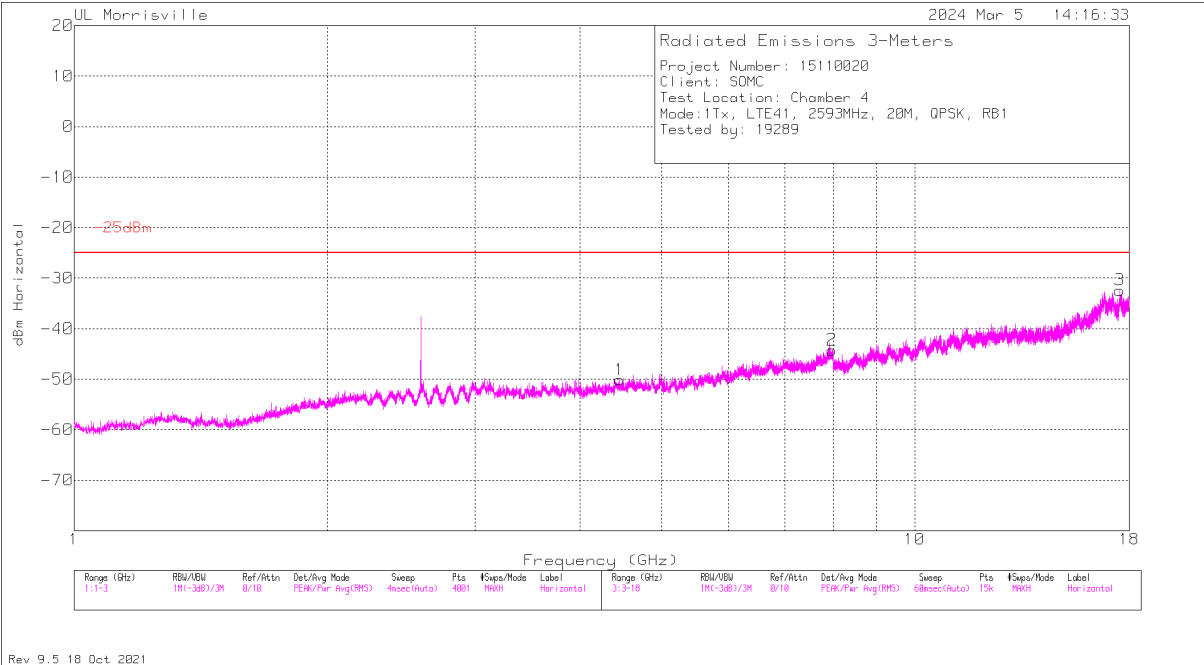
QPSK LTE BAND 41 20MHz, Low Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.3075	-58.36	Pk	29.1	-35.9	11.8	.4	-52.96	-25	-27.96	0-360	300	V
1	1.3155	-61.6	Pk	29	-36	11.8	.4	-56.4	-25	-31.4	0-360	200	H
2	5.946	-66.46	Pk	35	-28.5	11.8	.6	-47.56	-25	-22.56	0-360	100	H
5	7.968	-64.59	Pk	35.8	-27.3	11.8	.3	-43.99	-25	-18.99	0-360	300	V
6	16.804	-67.02	Pk	41.9	-19.2	11.8	1.2	-31.32	-25	-6.32	0-360	300	V
3	17.617	-66.96	Pk	41.4	-19.3	11.8	.8	-32.26	-25	-7.26	0-360	100	H

Pk - Peak detector

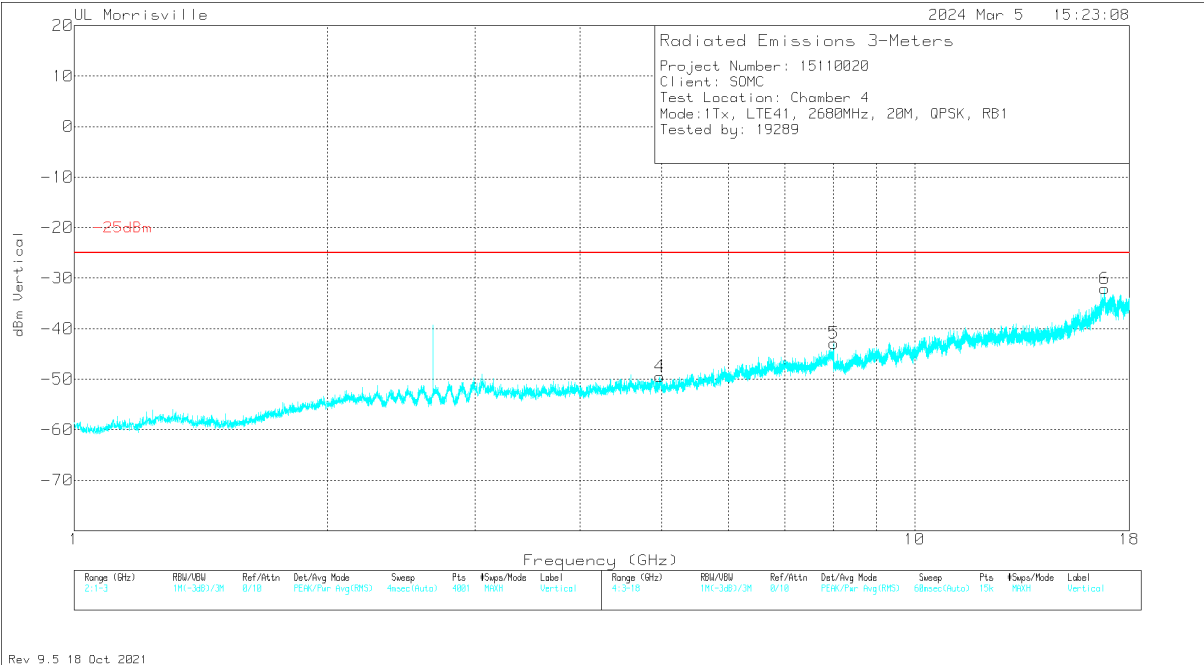
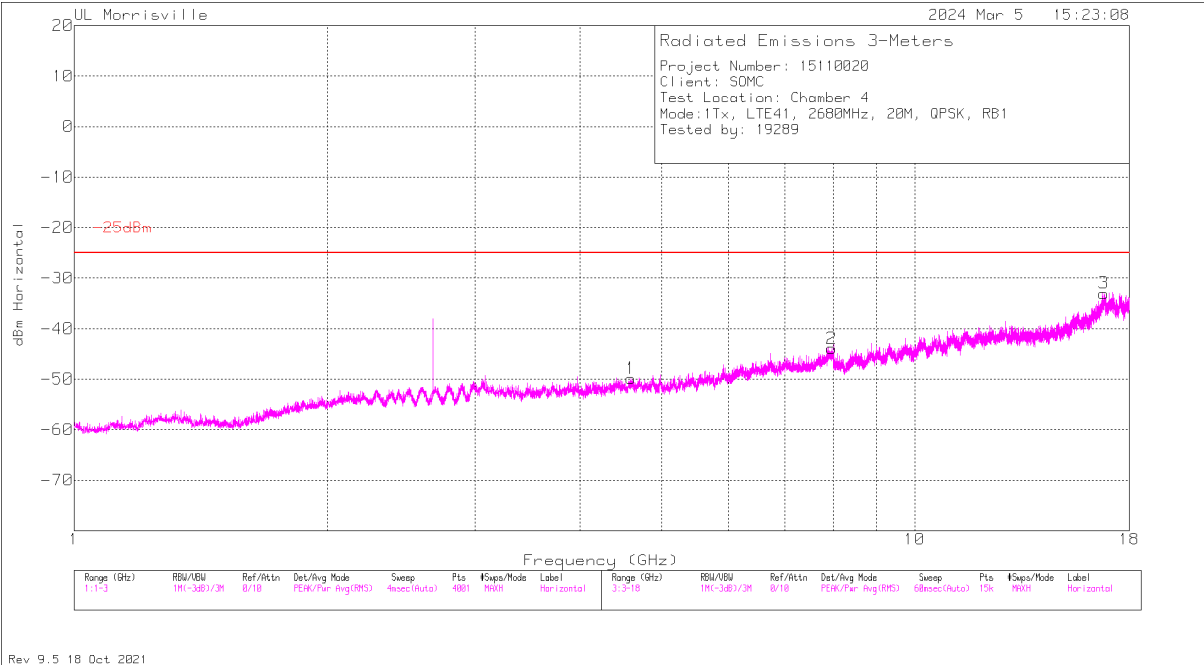
QPSK LTE BAND 41 20MHz, Mid Channel



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	4.408	-63.11	Pk	33.7	-31.3	11.8	.3	-48.61	-25	-23.61	0-360	200	V
1	4.456	-65.25	Pk	33.7	-31.1	11.8	.7	-50.15	-25	-25.15	0-360	100	H
5	7.92	-63.79	Pk	35.8	-27	11.8	.3	-42.89	-25	-17.89	0-360	200	V
2	7.968	-64.83	Pk	35.8	-27.3	11.8	.3	-44.23	-25	-19.23	0-360	100	H
6	17.058	-67.39	Pk	41.7	-19.8	11.8	1.3	-32.39	-25	-7.39	0-360	200	V
3	17.527	-68.88	Pk	41.4	-17.6	11.8	.9	-32.38	-25	-7.38	0-360	200	H

Pk - Peak detector

QPSK LTE BAND 41 20MHz, High Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	4.595	-64.67	Pk	34.1	-31.9	11.8	.8	-49.87	-25	-24.87	0-360	100	H
4	4.973	-64.39	Pk	34	-31.5	11.8	.6	-49.49	-25	-24.49	0-360	200	V
2	7.965	-64.7	Pk	35.8	-27.1	11.8	.3	-43.9	-25	-18.9	0-360	100	H
5	8.013	-63.27	Pk	35.8	-27.5	11.8	.3	-42.87	-25	-17.87	0-360	300	V
3	16.787	-68.31	Pk	41.9	-19.6	11.8	1.2	-33.01	-25	-8.01	0-360	200	H
6	16.825	-67.87	Pk	41.9	-19.1	11.8	1.2	-32.07	-25	-7.07	0-360	300	V

Pk - Peak detector

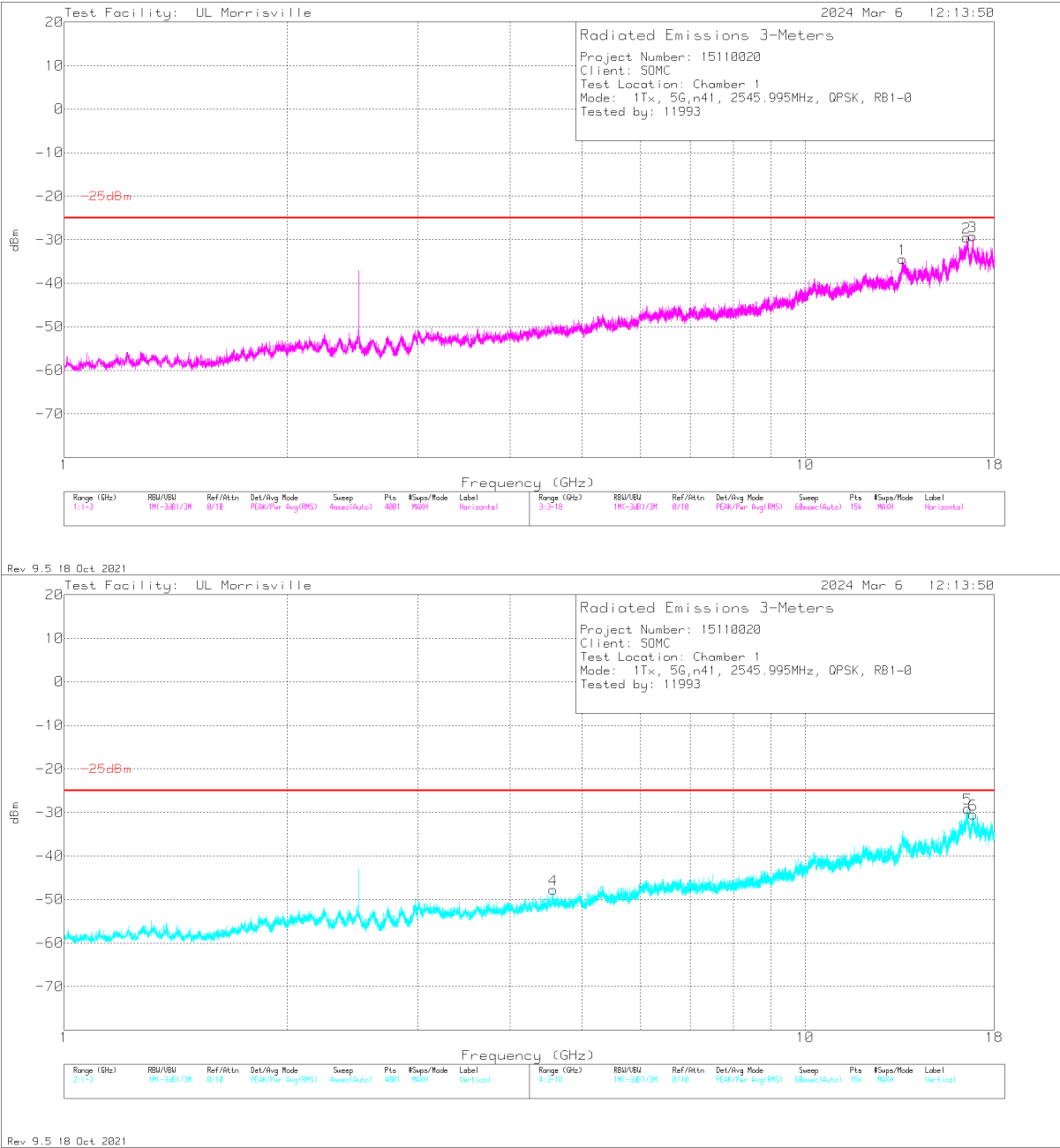
10.1.9. 5G NR n41

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.

EUT Serial Number:	QV7700P4LQ
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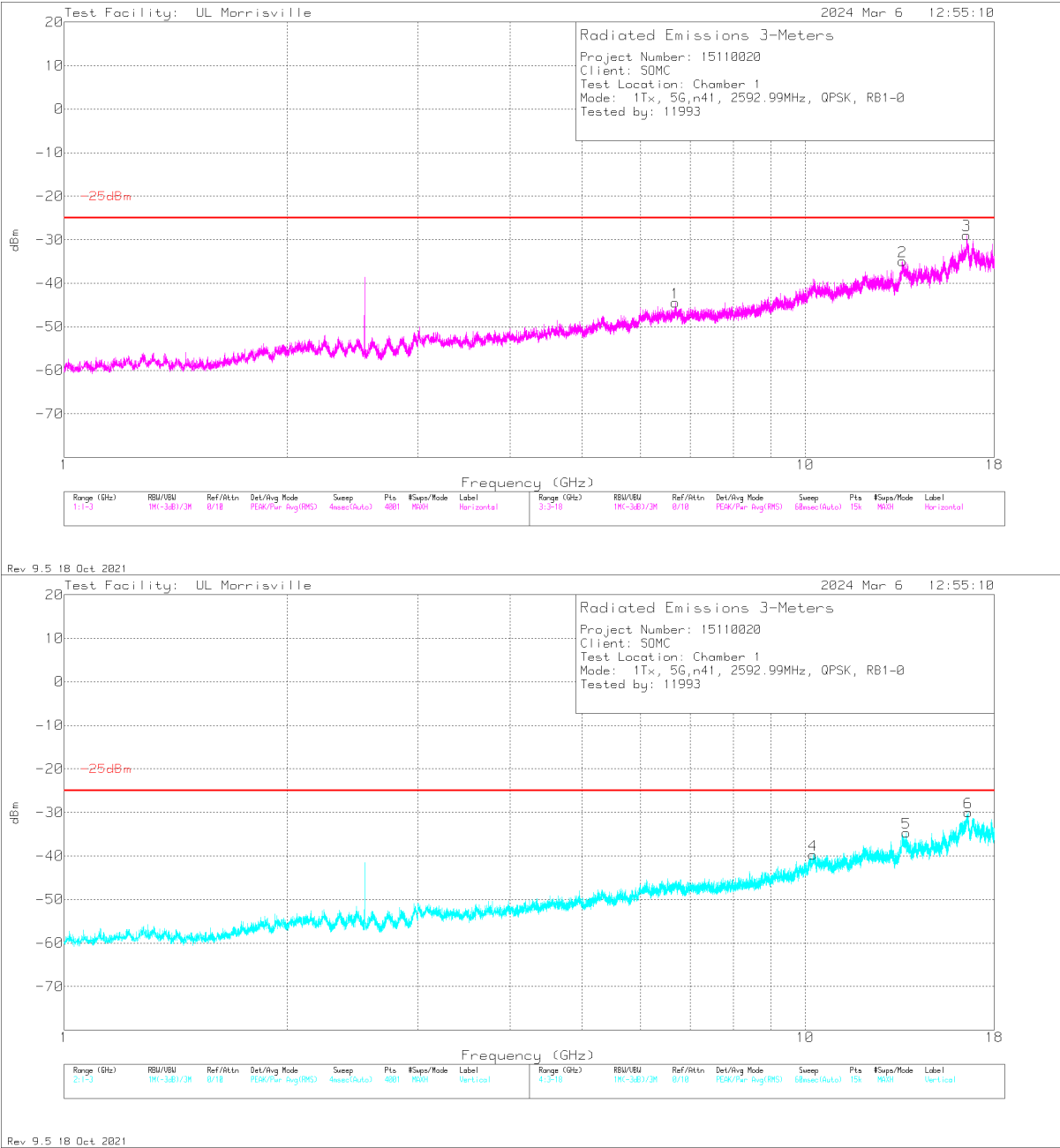
QPSK 5G NR N41 (100MHz, Low Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	4.57	-63.6	Pk	34.1	-30.7	11.8	.7	-47.7	-25	-22.7	0-360	299	V
1	13.535	-63.07	Pk	39	-23	11.8	.8	-34.47	-25	-9.47	0-360	299	H
2	16.5253	-67.98	Pk	41.1	-18.2	11.8	1.2	-32.08	-25	-7.08	34	233	H
5	16.5677	-66.81	Pk	41.2	-18.3	11.8	1	-31.11	-25	-6.11	356	324	V
3	16.84358	-69.08	Pk	41.6	-18.6	11.8	1.2	-33.08	-25	-8.08	235	109	H
6	16.86741	-68.93	Pk	41.7	-18.7	11.8	1.2	-32.93	-25	-7.93	15	173	V

Pk - Peak detector

QPSK 5G NR N41 (100MHz, Mid Channel)



Test Facility: UL Morrisville

2024 Mar 6 12:55:18

Radiated Emissions 3-Meters

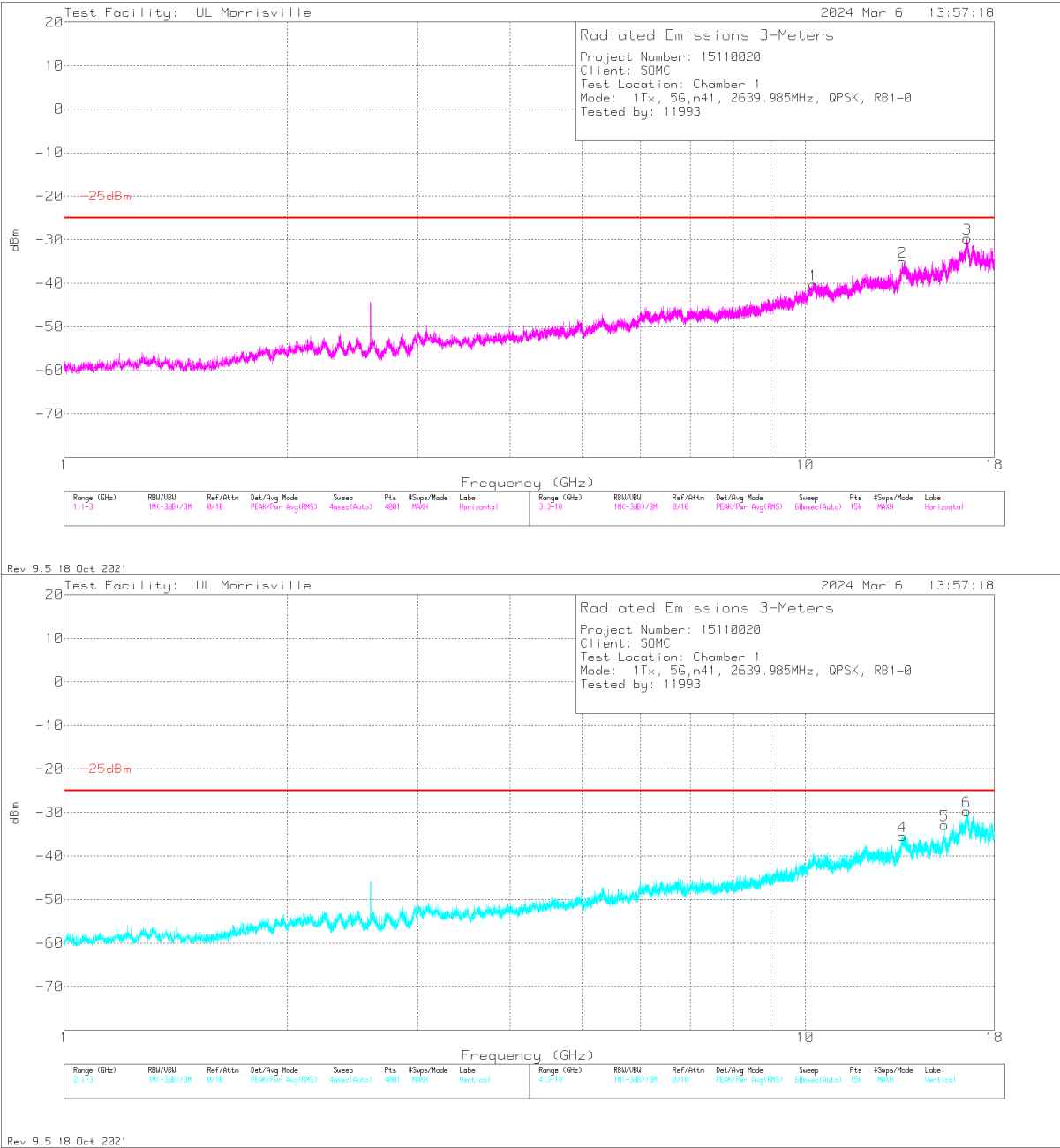
Project Number: 15110020
Client: SOMC
Test Location: Chamber 1
Mode: 1Tx, 5G, n41, 2592.99MHz, QPSK, RB1-0
Tested by: 11993

Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	6.677	-65.1	Pk	35.6	-27.2	11.8	.5	-44.4	-25	-19.4	0-360	300	H
4	10.246	-67.1	Pk	37.6	-23.4	11.8	1.3	-39.8	-25	-14.8	0-360	200	V
2	13.53	-63.43	Pk	39	-23.1	11.8	.8	-34.93	-25	-9.93	0-360	101	H
5	13.689	-62.55	Pk	38.9	-23.7	11.8	.9	-34.65	-25	-9.65	0-360	200	V
3	16.52345	-68.65	Pk	41.1	-18.2	11.8	1.2	-32.75	-25	-7.75	238	106	H
6	16.59586	-66.09	Pk	41.2	-18	11.8	1	-30.09	-25	-5.09	14	232	V

Pk - Peak detector

QPSK 5G NR N41 (100MHz, High Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	10.262	-67.29	Pk	37.7	-24	11.8	1.5	-40.29	-25	-15.29	0-360	101	H
4	13.537	-64.01	Pk	39	-23	11.8	.8	-35.41	-25	-10.41	0-360	300	V
2	13.539	-63.6	Pk	39	-23.1	11.8	.8	-35.1	-25	-10.1	0-360	200	H
5	15.423	-66.07	Pk	40.3	-19.7	11.8	.8	-32.87	-25	-7.87	0-360	200	V
6	16.52433	-67.69	Pk	41.1	-18.2	11.8	1.2	-31.79	-25	-6.79	234	122	V
3	16.5427	-67.28	Pk	41.1	-17.9	11.8	1.1	-31.18	-25	-6.18	182	397	H

Pk - Peak detector

10.1.10. LTE BAND 66**LIMITS**

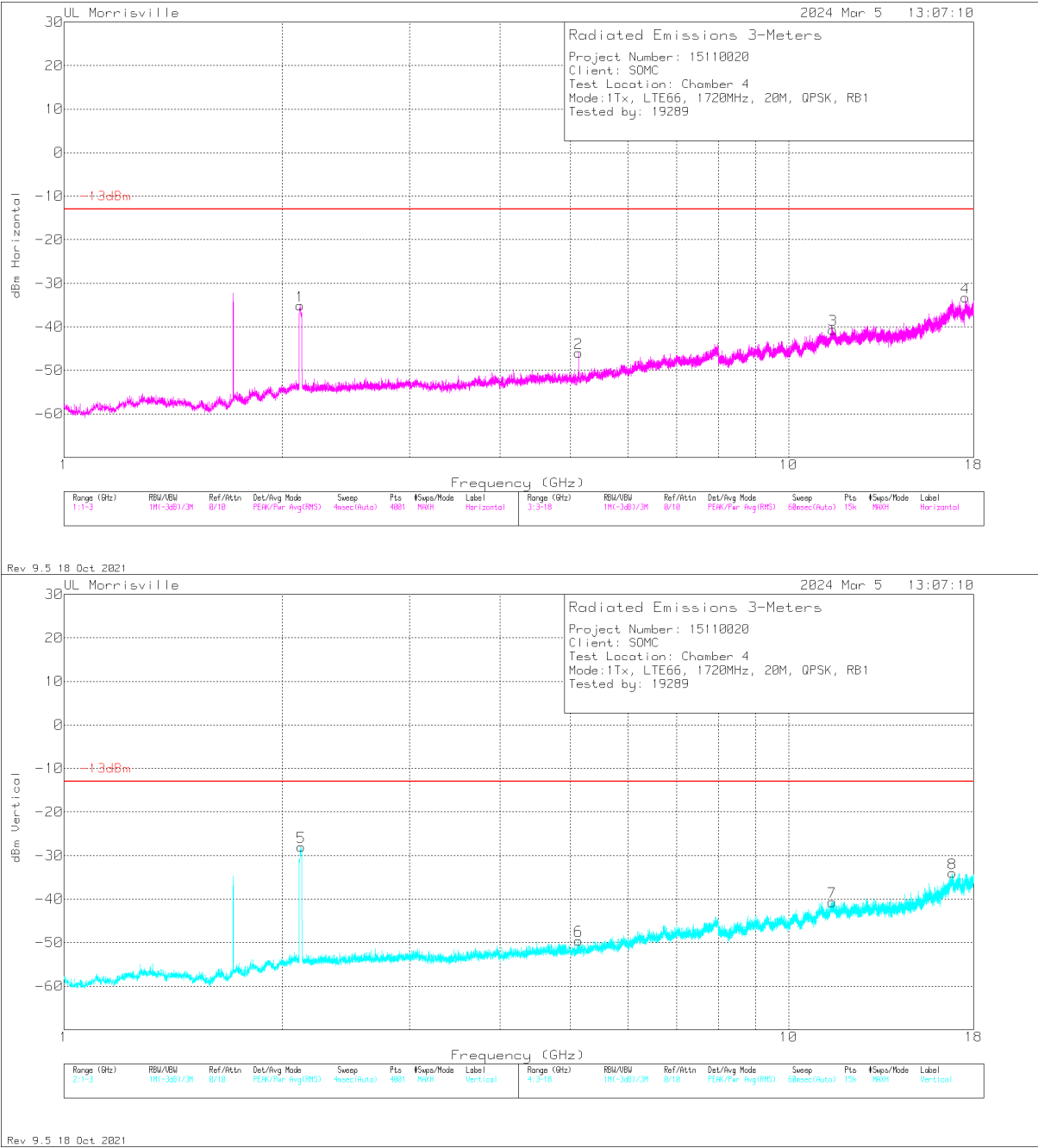
FCC: §27.53(h)

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.

EUT Serial Number:	QV7700P4LQ QV77003DL2
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Main Antenna

QSPK LTE66 (20MHz, Low Channel)

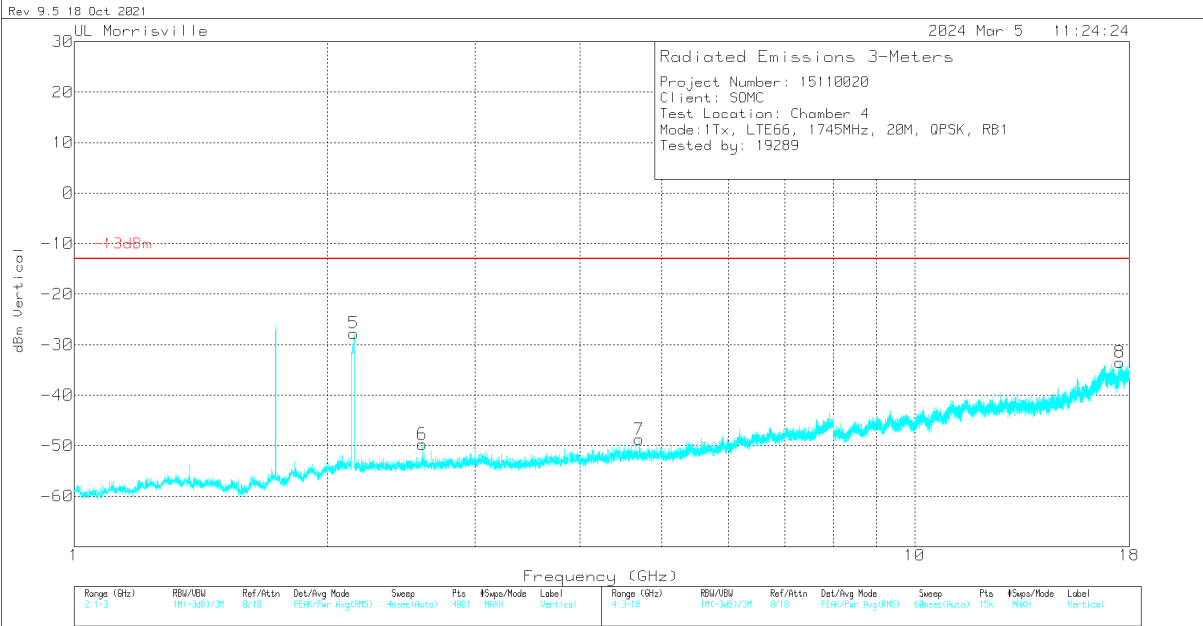
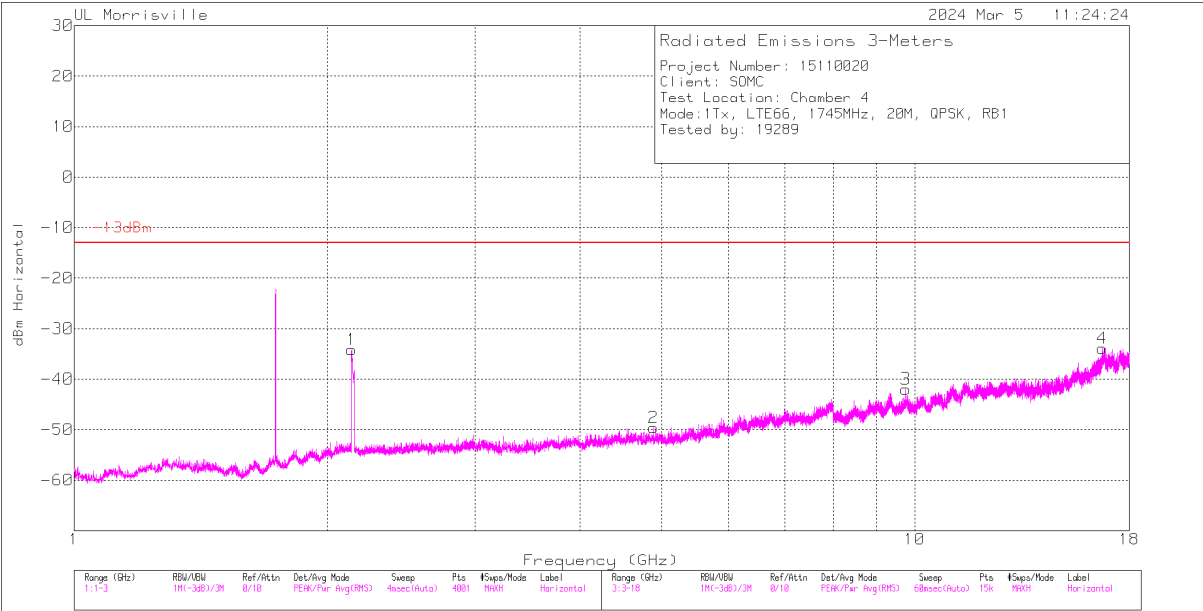


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1 ^{DL}	2.1165	-43.97	Pk	31.6	-36	11.8	1.4	-35.17	-	-	0-360	200	H
5 ^{DL}	2.126	-36.53	Pk	31.6	-36.2	11.8	1.3	-28.03	-	-	0-360	300	V
2	5.133	-60.68	Pk	34.2	-31.3	11.8	0	-45.98	-13	-32.98	0-360	100	H
6	5.133	-64.25	Pk	34.2	-31.3	11.8	0	-49.55	-13	-36.55	0-360	300	V
7	11.482	-67.56	Pk	38.2	-23.1	11.8	0	-40.66	-13	-27.66	0-360	300	V
3	11.512	-67.38	Pk	38.2	-23.3	11.8	0	-40.68	-13	-27.68	0-360	200	H
8	16.819	-68.92	Pk	41.9	-18.8	11.8	0	-34.02	-13	-21.02	0-360	200	V
4	17.549	-67.88	Pk	41.4	-18.6	11.8	0	-33.28	-13	-20.28	0-360	200	H

Pk - Peak detector

DL - Downlink

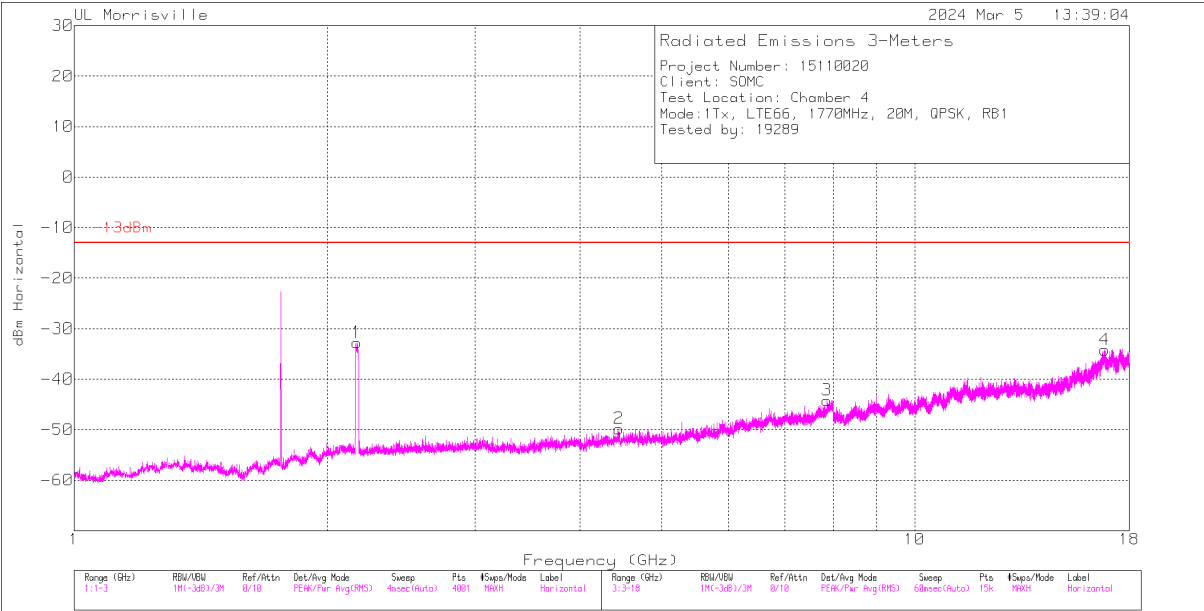
QSPK LTE66 (20MHz, Mid Channel)



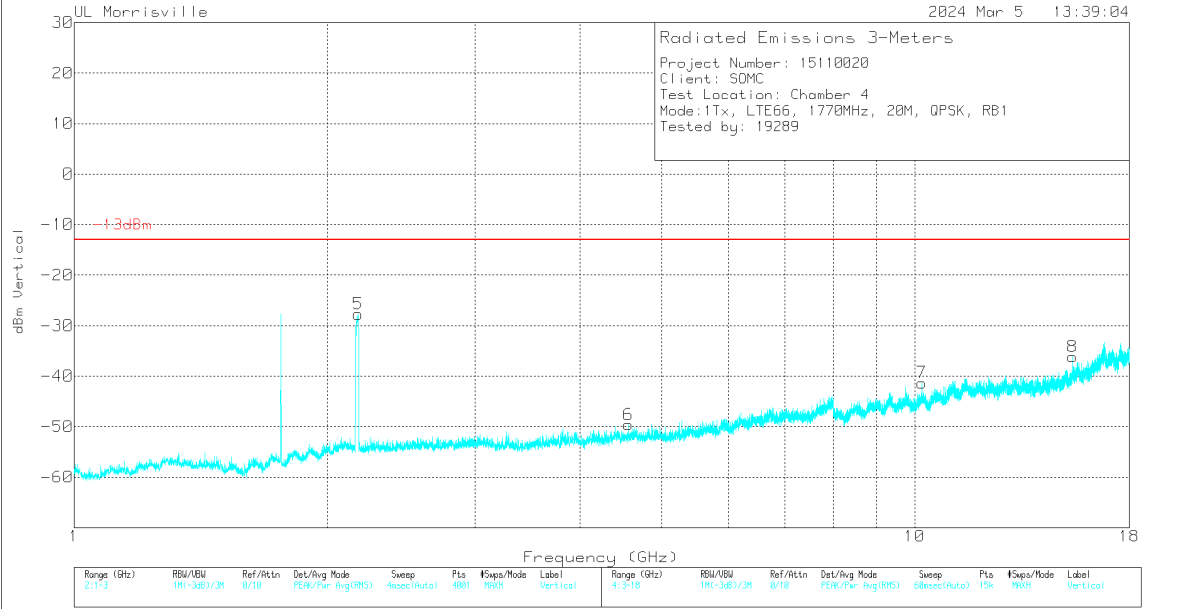
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1 ^{DL}	2.138	-42.56	Pk	31.5	-36.2	11.8	1.3	-34.16	-	-	0-360	100	H
5 ^{DL}	2.1515	-36.14	Pk	31.6	-36.2	11.8	1.2	-27.74	-	-	0-360	300	V
6	2.5935	-58.5	Pk	32.5	-36	11.8	.5	-49.7	-13	-36.7	0-360	300	V
7	4.697	-63.23	Pk	34.1	-31.4	11.8	0	-48.73	-13	-35.73	0-360	300	V
2	4.891	-64.19	Pk	34	-31.2	11.8	0	-49.59	-13	-36.59	0-360	100	H
3	9.757	-65.17	Pk	36.9	-25.5	11.8	0	-41.97	-13	-28.97	0-360	100	H
4	16.723	-68.31	Pk	41.8	-19.2	11.8	0	-33.91	-13	-20.91	0-360	100	H
8	17.529	-68.49	Pk	41.4	-18.2	11.8	0	-33.49	-13	-20.49	0-360	300	V

Pk - Peak detector DL - Downlink

QSPK LTE66 (20MHz, High Channel)



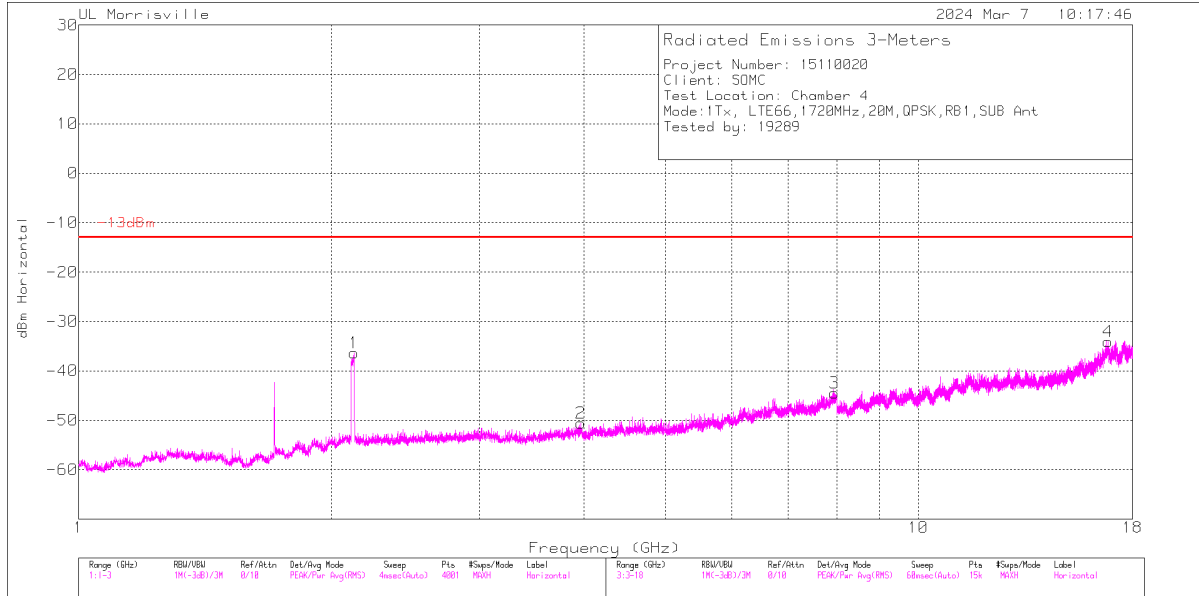
Rev 9.5 18 Oct 2021



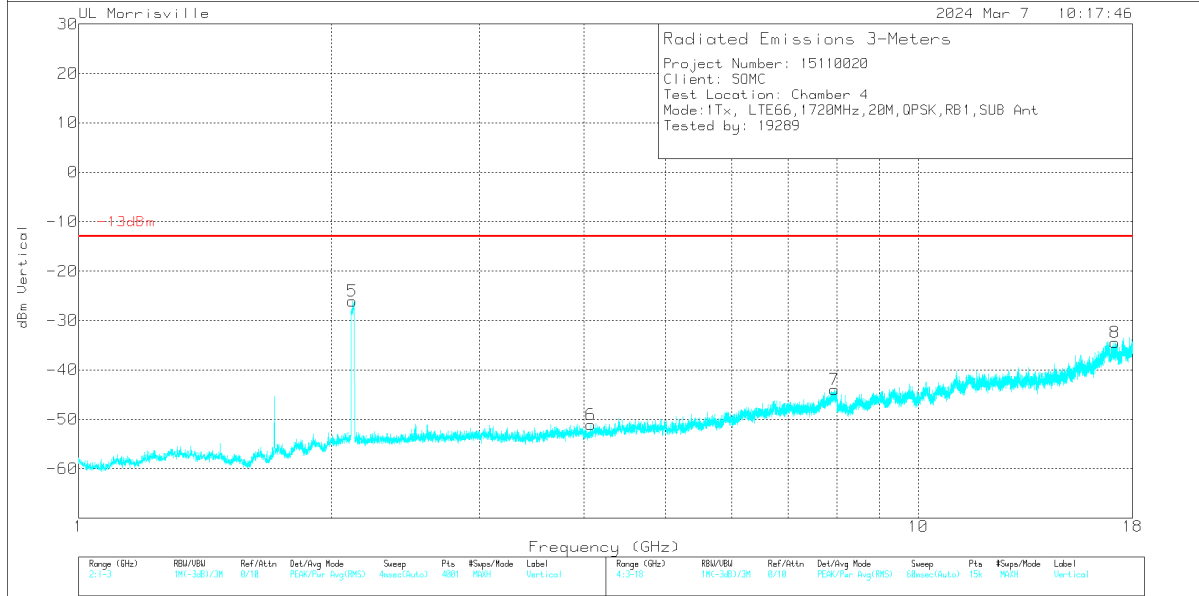
Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1 ^{DL}	2.168	-41.15	Pk	31.6	-36.1	11.8	1.1	-32.75	-	-	0-360	100	H
5 ^{DL}	2.1765	-36.02	Pk	31.6	-36.1	11.8	1	-27.72	-	-	0-360	300	V
2	4.449	-64.08	Pk	33.7	-31.2	11.8	0	-49.78	-13	-36.78	0-360	100	H
6	4.561	-63.89	Pk	33.9	-31.4	11.8	0	-49.59	-13	-36.59	0-360	300	V
3	7.867	-64.27	Pk	35.7	-27.4	11.8	0	-44.17	-13	-31.17	0-360	100	H
7	10.195	-64.91	Pk	37.4	-25.6	11.8	0	-41.31	-13	-28.31	0-360	300	V
8	15.419	-67.84	Pk	40	-20.1	11.8	0	-36.14	-13	-23.14	0-360	300	V
4	16.82	-69.38	Pk	41.9	-18.5	11.8	0	-34.18	-13	-21.18	0-360	100	H

Pk - Peak detector

Sub Antenna**QPSK LTE66 (20MHz Low Channel)**

Rev 9.5 18 Oct 2021

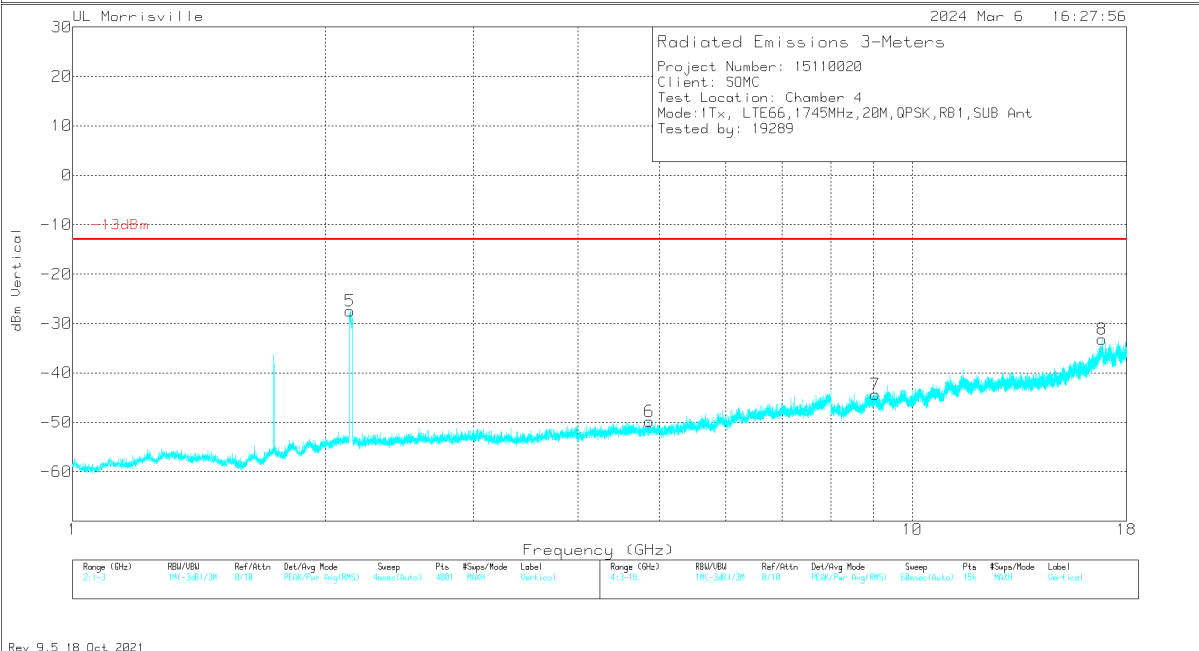
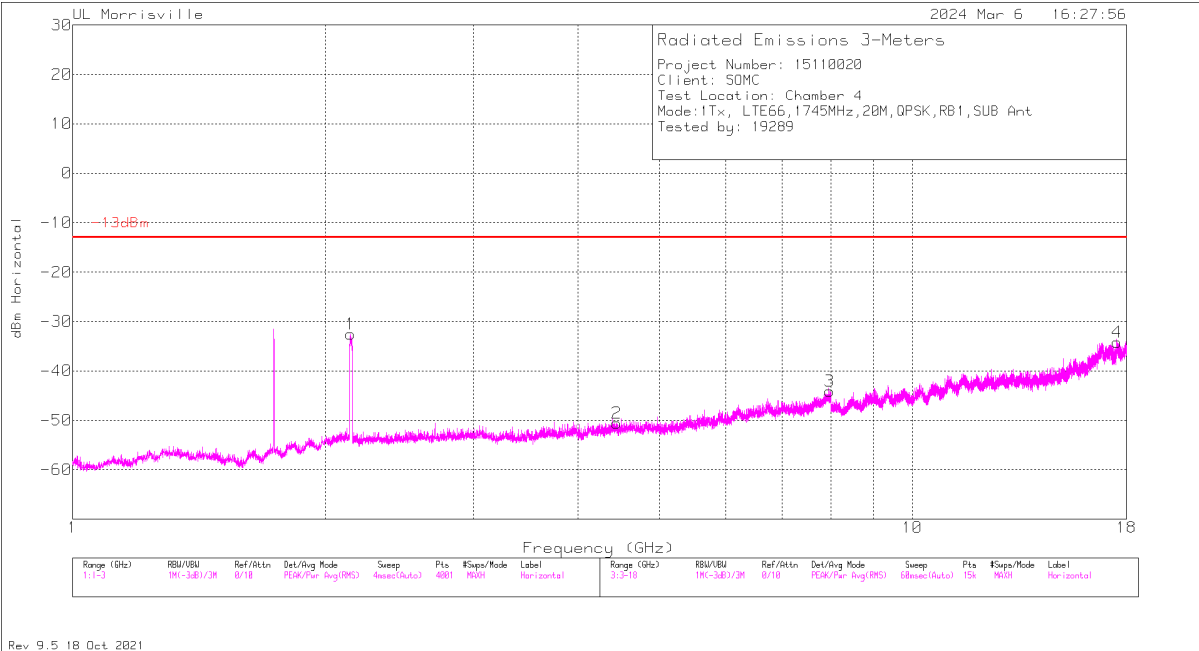


Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5 ^{DL}	2.1175	-34.86	Pk	31.6	-36	11.8	1.4	-26.06	-	-	0-360	300	V
1 ^{DL}	2.1275	-45.01	Pk	31.6	-36.1	11.8	1.3	-36.41	-	-	0-360	100	H
2	3.964	-63.82	Pk	33.4	-31.9	11.8	0	-50.52	-13	-37.52	0-360	100	H
6	4.074	-63.93	Pk	33.3	-32.2	11.8	0	-51.03	-13	-38.03	0-360	200	V
7	7.951	-64.33	Pk	35.8	-27.2	11.8	0	-43.93	-13	-30.93	0-360	200	V
3	7.953	-64.65	Pk	35.8	-27.4	11.8	0	-44.45	-13	-31.45	0-360	100	H
4	16.822	-69.11	Pk	41.9	-18.7	11.8	0	-34.11	-13	-21.11	0-360	100	H
8	17.168	-67.98	Pk	41.4	-19.7	11.8	0	-34.48	-13	-21.48	0-360	300	V

Pk - Peak detector DL - Downlink

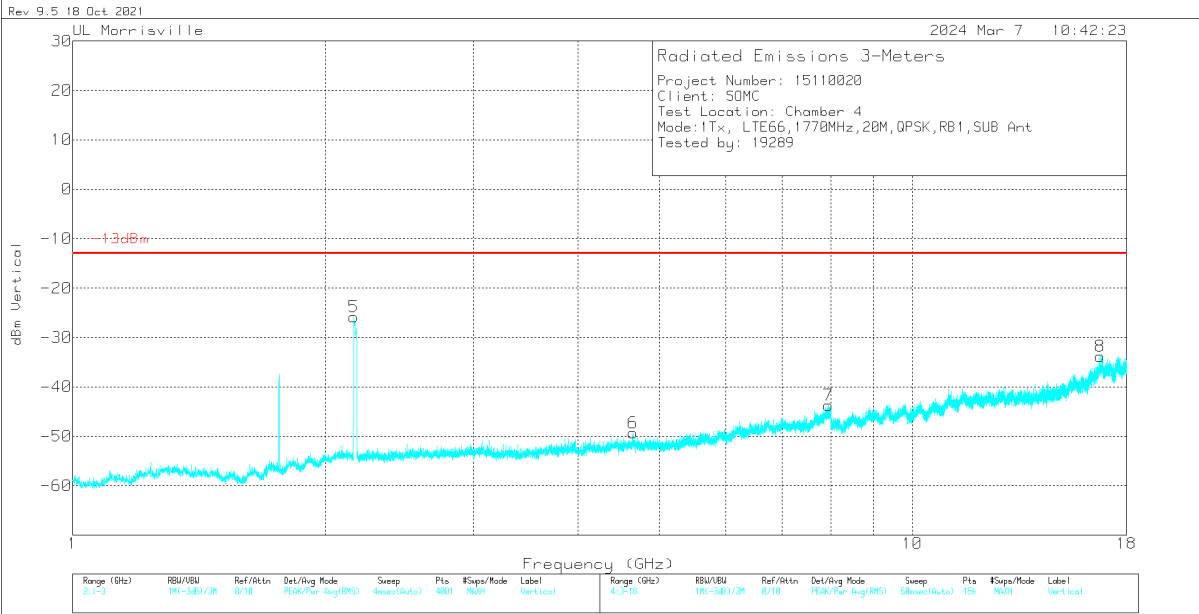
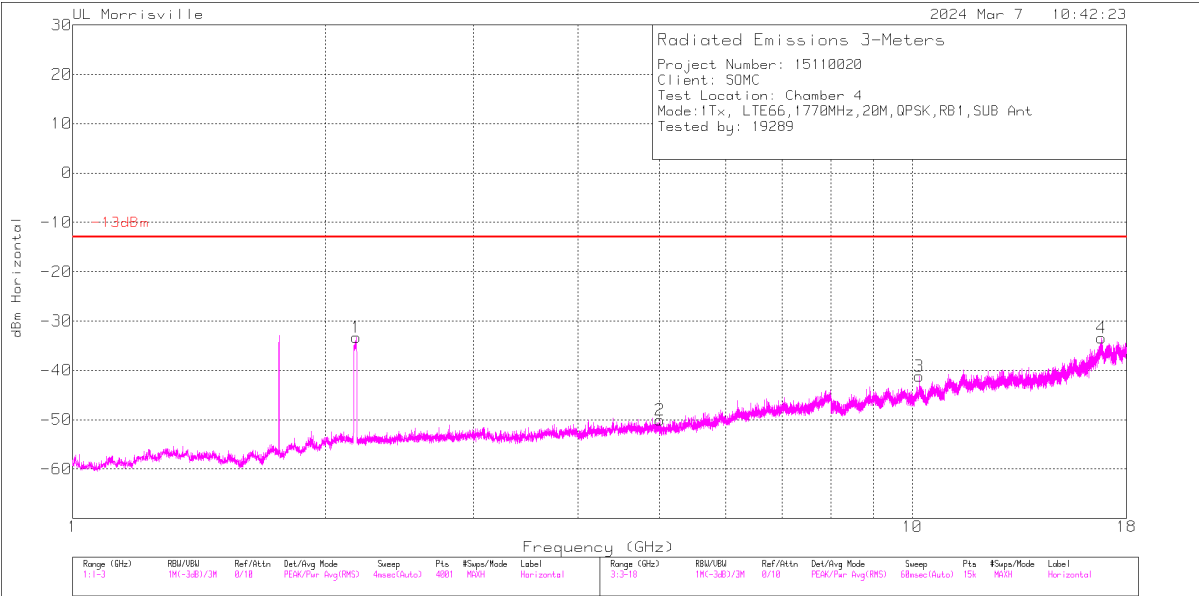
QPSK LTE66 (20MHz, Mid Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5 ^{DL}	2.138	-35.82	Pk	31.5	-36.2	11.8	1.3	-27.42	-	-	0-360	300	V
1 ^{DL}	2.1425	-40.82	Pk	31.5	-36.2	11.8	1.2	-32.52	-	-	0-360	100	H
2	4.445	-64.97	Pk	33.7	-31.1	11.8	0	-50.57	-13	-37.57	0-360	100	H
6	4.865	-64.28	Pk	34.1	-31.4	11.8	0	-49.78	-13	-36.78	0-360	300	V
3	7.97	-64.25	Pk	35.8	-27.5	11.8	0	-44.15	-13	-31.15	0-360	200	H
7	9.037	-67.75	Pk	36.2	-24.6	11.8	0	-44.35	-13	-31.35	0-360	300	V
8	16.822	-68.19	Pk	41.9	-18.7	11.8	0	-33.19	-13	-20.19	0-360	300	V
4	17.555	-68.87	Pk	41.4	-18.5	11.8	0	-34.17	-13	-21.17	0-360	100	H

Pk - Peak detector DL - Downlink

QPSK LTE66 (20MHz High Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	89509 ACF (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5 ^{DL}	2.1625	-34.11	Pk	31.6	-36.2	11.8	1.1	-25.81	-	-	0-360	300	V
1 ^{DL}	2.1765	-41.56	Pk	31.6	-36.1	11.8	1	-33.26	-	-	0-360	200	H
6	4.647	-63.84	Pk	34.1	-31.4	11.8	0	-49.34	-13	-36.34	0-360	300	V
2	5.003	-64.11	Pk	34.1	-31.8	11.8	0	-50.01	-13	-37.01	0-360	100	H
7	7.942	-63.75	Pk	35.8	-27.6	11.8	0	-43.75	-13	-30.75	0-360	300	V
3	10.19	-64.63	Pk	37.4	-25.7	11.8	0	-41.13	-13	-28.13	0-360	100	H
8	16.754	-67.97	Pk	41.9	-19.5	11.8	0	-33.77	-13	-20.77	0-360	200	V
4	16.802	-68.13	Pk	41.9	-19	11.8	0	-33.43	-13	-20.43	0-360	200	H

Pk - Peak detector DL - Downlink

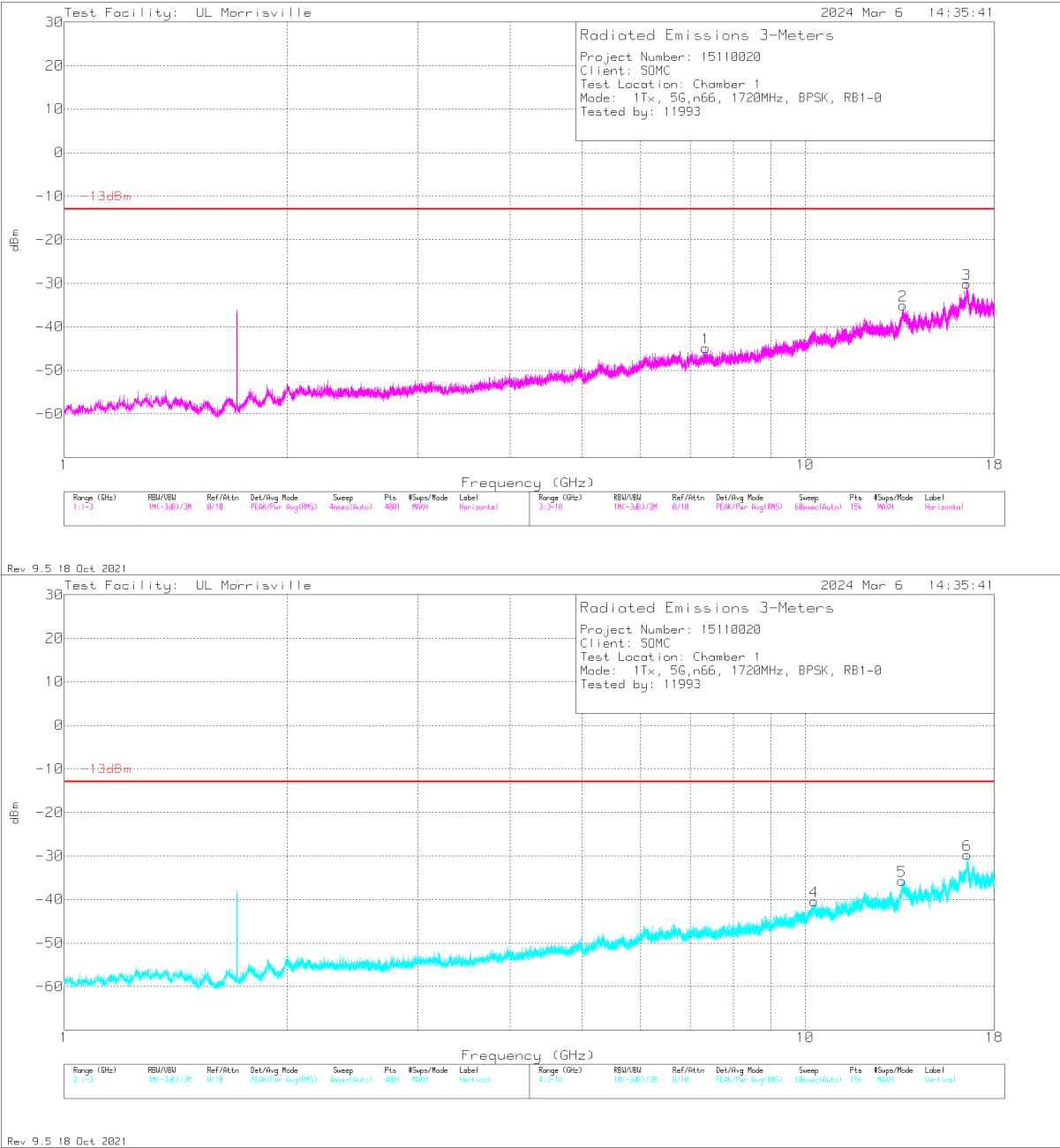
10.1.11. 5G NR n66**LIMITS**

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.

EUT Serial Number:	QV7700P4LQ
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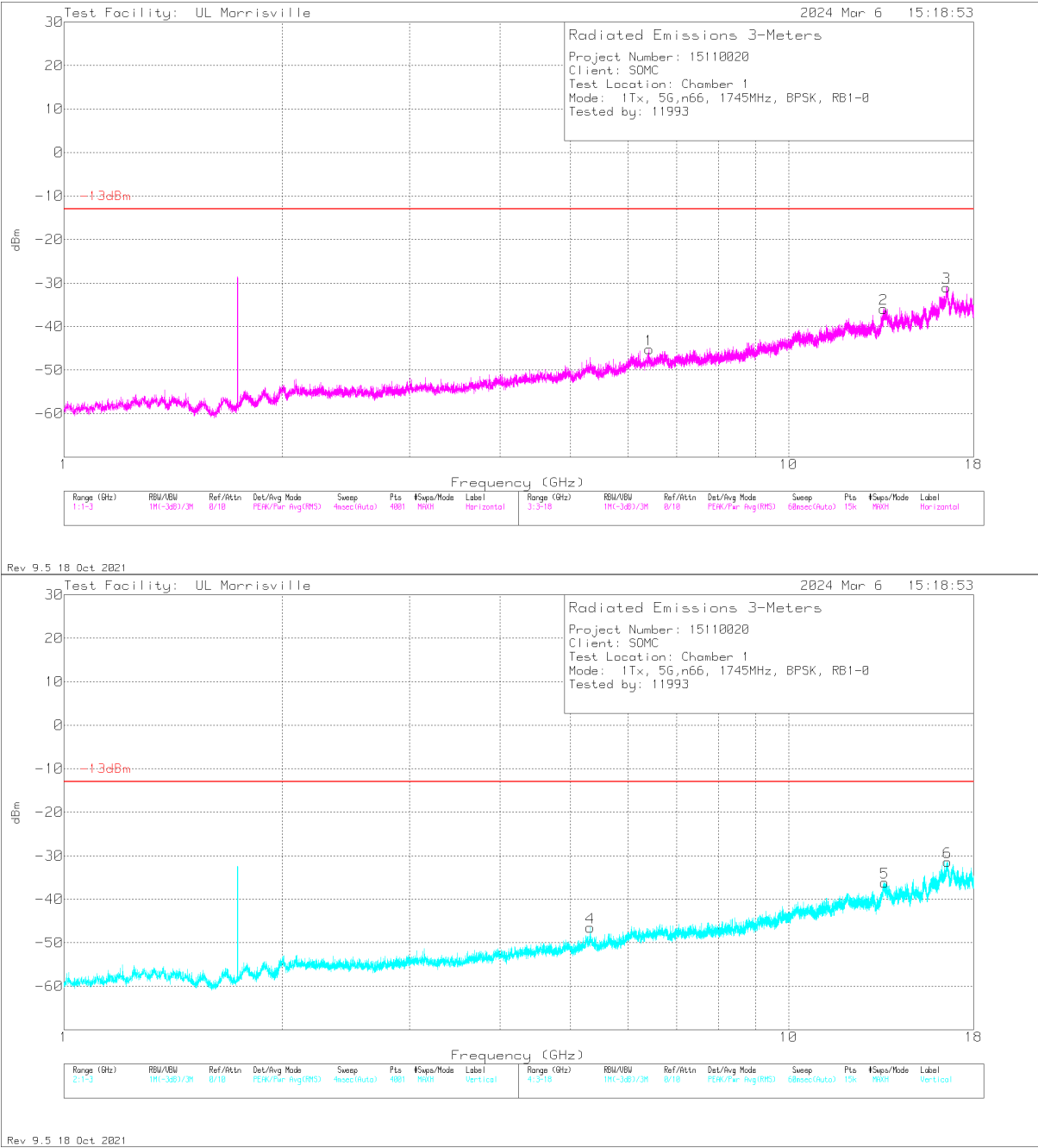
BPSK n66 (20MHz, Low Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	7.34	-65.97	Pk	35.6	-26.3	11.8	0	-44.87	-13	-31.87	0-360	199	H
4	10.286	-66.46	Pk	37.7	-23.5	11.8	0	-40.46	-13	-27.46	0-360	300	V
5	13.507	-63.74	Pk	39	-22.8	11.8	0	-35.74	-13	-22.74	0-360	300	V
2	13.558	-62.68	Pk	39	-23.2	11.8	0	-35.08	-13	-22.08	0-360	101	H
3	16.522	-64.99	Pk	41.1	-18.1	11.8	0	-30.19	-13	-17.19	0-360	300	H
6	16.537	-64.64	Pk	41.1	-18	11.8	0	-29.74	-13	-16.74	0-360	300	V

Pk - Peak detector

BPSK n66 (20MHz, Mid Channel)



Test Facility: UL Morrisville

2024 Mar 6 15:18:53

Radiated Emissions 3-Meters

Project Number: 15110020
Client: SOMC
Test Location: Chamber 1
Mode: 1Tx, 5G, n66, 1745MHz, BPSK, RB1-0
Tested by: 11993

dBm

Frequency (GHz)

Range (GHz)	RBW/ABW	Ref/Alt	Det/Avg Mode	Sweep	Pts	#Sps/Mode	Label
1-1.3	1M-3dB/3M	B/10	PER/Pwr Avg(RMS)	4sec/Auto	4001	NR01	Vertical

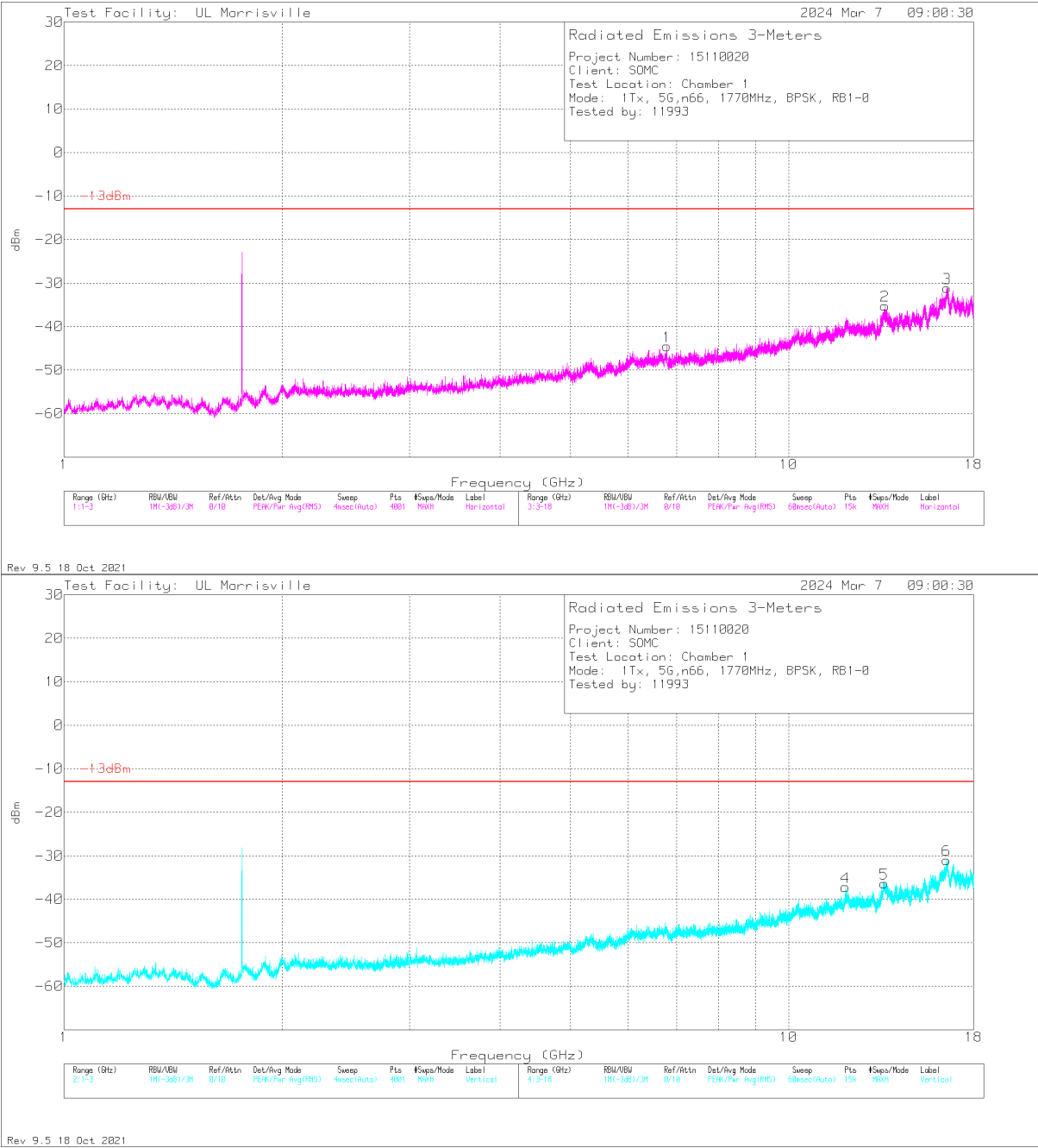
Range (GHz)	RBW/ABW	Ref/Alt	Det/Avg Mode	Sweep	Pts	#Sps/Mode	Label
4-18	1M-3dB/3M	B/10	PER/Pwr Avg(RMS)	60sec/Auto	15k	NR01	Vertical

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Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	5.324	-64.31	Pk	34.5	-28.5	11.8	0	-46.51	-13	-33.51	0-360	201	V
1	6.422	-64.56	Pk	35.5	-28	11.8	0	-45.26	-13	-32.26	0-360	200	H
2	13.53	-63.64	Pk	39	-23.1	11.8	0	-35.94	-13	-22.94	0-360	101	H
5	13.565	-63.28	Pk	39	-23.7	11.8	0	-36.18	-13	-23.18	0-360	201	V
3	16.52	-65.8	Pk	41.1	-18.1	11.8	0	-31	-13	-18	0-360	200	H
6	16.561	-66.33	Pk	41.2	-18.1	11.8	0	-31.43	-13	-18.43	0-360	300	V

Pk - Peak detector

BPSK n66 (20MHz, High Channel)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	6.79	-64.02	Pk	35.6	-27.9	11.8	0	-44.52	-13	-31.52	0-360	200	H
4	11.978	-64.89	Pk	38.6	-22.7	11.8	0	-37.19	-13	-24.19	0-360	101	V
5	13.553	-63.76	Pk	39	-23.4	11.8	0	-36.36	-13	-23.36	0-360	300	V
2	13.582	-62.21	Pk	39	-23.8	11.8	0	-35.21	-13	-22.21	0-360	101	H
6	16.521	-65.77	Pk	41.1	-18.1	11.8	0	-30.97	-13	-17.97	0-360	300	V
3	16.549	-65.85	Pk	41.1	-18.2	11.8	0	-31.15	-13	-18.15	0-360	299	H

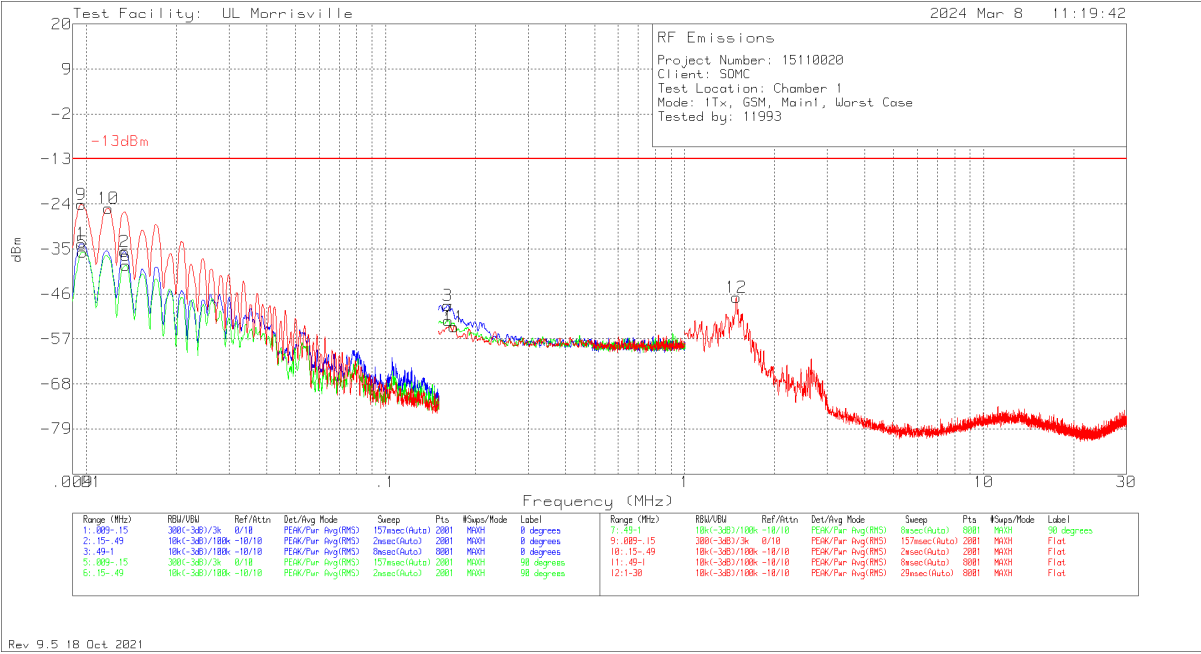
Pk - Peak detector

10.2. Worst Case Emissions

LIMITS

The minimum permissible attenuation level of any spurious emissions is 43 + 10 log (P) dB where transmitting power (P) in Watts

Main1 Antenna



Marker	Frequency (MHz)	Meter Reading (dBm)	Det	Loop (dBUV/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Loop Angle
1	.00964	-74.81	Pk	60.9	-31.6	11.8	-33.71	-13	-20.71	0-360	0 degs
9	.00964	-65.23	Pk	60.9	-31.6	11.8	-24.13	-13	-11.13	0-360	Flat
5	.00971	-76.71	Pk	60.8	-31.6	11.8	-35.71	-13	-22.71	0-360	90 degs
10	.01184	-65.44	Pk	60.3	-31.7	11.8	-25.04	-13	-12.04	0-360	Flat
2	.0134	-75.72	Pk	60	-31.7	11.8	-35.62	-13	-22.62	0-360	0 degs
6	.01354	-79.08	Pk	60	-31.7	11.8	-38.98	-13	-25.98	0-360	90 degs
3	.16131	-83.96	Pk	56	-32.6	11.8	-48.76	-13	-35.76	0-360	0 degs
7	.16224	-87.66	Pk	56	-32.6	11.8	-52.46	-13	-39.46	0-360	90 degs
11	.16904	-89.27	Pk	56.1	-32.6	11.8	-53.97	-13	-40.97	0-360	Flat
12	1.48575	-70.64	Pk	44.4	-32.4	11.8	-46.84	-13	-33.84	0-360	Flat
8	1.51113	-85.28	Pk	44.2	-32.4	11.8	-61.68	-13	-48.68	0-360	90 degs
4	1.54013	-84.26	Pk	44.1	-32.4	11.8	-60.76	-13	-47.76	0-360	0 degs

Pk - Peak detector

EUT Serial Number:	QV7700NTLQ
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10.3. Simultaneous Transmission

Scans:

Scan #	Mode	Mode	Mode
1	LTE B66 QPSK, 20M, RB1-49, 1745MHz (Main2)	BT GFSK C0 2441MHz	WLAN UNII-1 11ax HE20 26T RU4 MCS0 5240MHz (CH 48) MIMO
2	LTE B66 QPSK, 20M, RB1-49, 1745MHz [(Main2)	BT GFSK C1 2441MHz	WLAN UNII-1 11ax HE20 26T RU4 MCS0 5240MHz (CH 48) MIMO
3	LTE B66 QPSK, 20M, RB1-49, 1745MHz (Main2)	2442MHz 11g 6Mbps MIMO	-
5	LTE B41, 20M, RB1-49, 2620Mhz, (Main2)	WLAN UNII-5 11ax HE40 484T RU65 MCS0 6365MHz (CH 83) MIMO	-
6	LTE B12 QPSK, 10M, RB1-24, 704MHz (Main1)	2462MHz 11g 6Mbps MIMO	-

LIMITS (LTE Band 66, LTE Band 12)

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.

FCC: §27.53 (g)

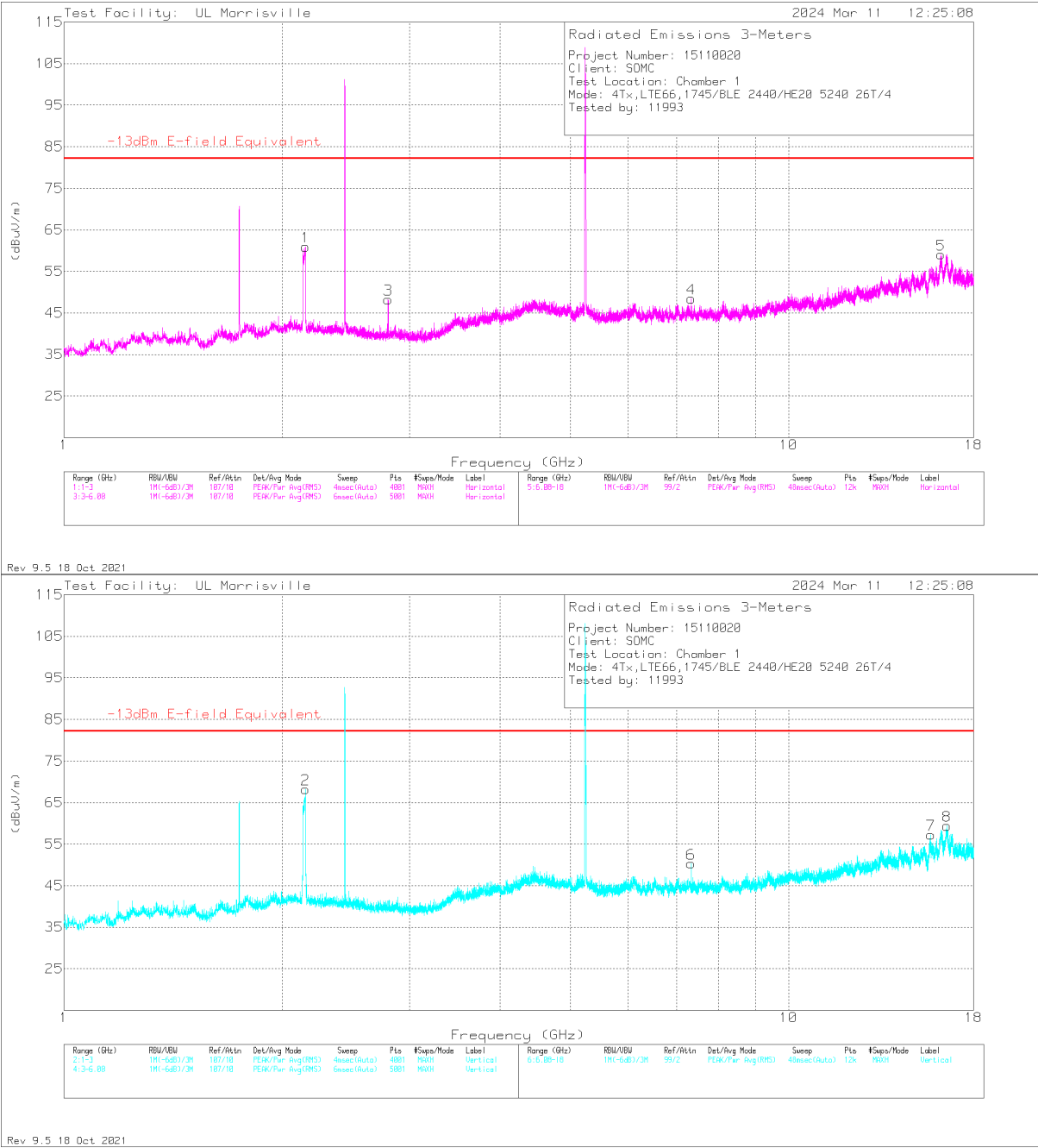
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

LIMITS (LTE Band 41, 5G NR n41)

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.

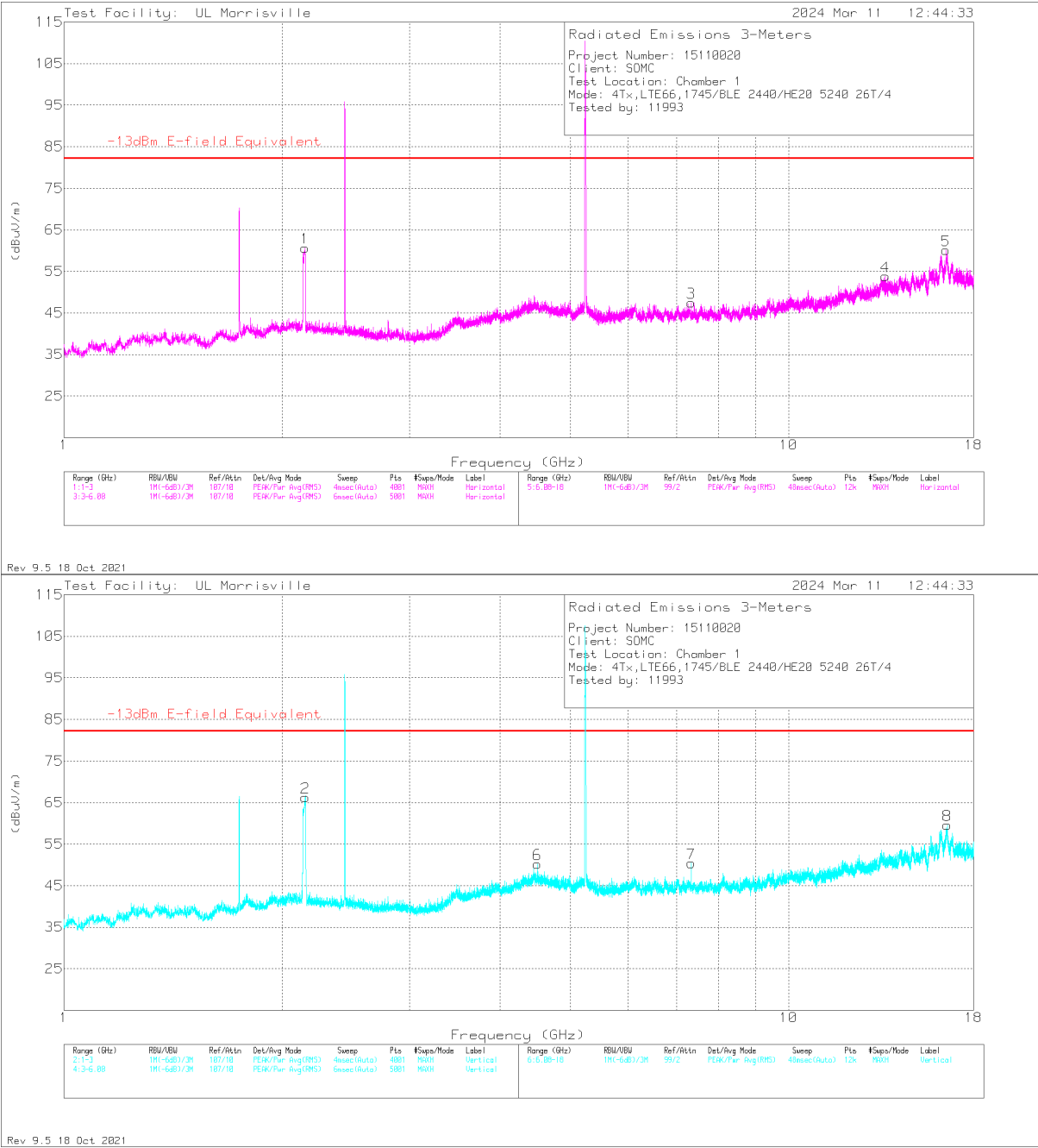
10.3.1. Scan 1



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	Filter (dB)	Corrected Reading (dBuV/m)	-13dBm E-field Equivalent	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1 (DL)	2.1535	51.36	Pk	31.7	-23.3	1.2	60.96	-	-	0-360	200	H
2 (DL)	2.1535	58.61	Pk	31.7	-23.3	1.2	68.21	-	-	0-360	200	V
3	2.801	41.38	Pk	32.3	-25.9	.5	48.28	82.2	-33.92	0-360	101	H
6	7.33458	42	Pk	35.6	-27.3	0	50.3	82.2	-31.9	0-360	101	V
4	7.33657	40.15	Pk	35.6	-27.3	0	48.45	82.2	-33.75	0-360	101	H
7	15.7193	37.06	Pk	40.7	-20.5	0	57.26	82.2	-24.94	0-360	101	V
5	16.23385	36.74	Pk	40.6	-18.3	0	59.04	82.2	-23.16	0-360	200	H
8	16.53086	36.01	Pk	41.1	-17.7	0	59.41	82.2	-22.79	0-360	101	V

Pk - Peak detector DL – Down link from WWAN

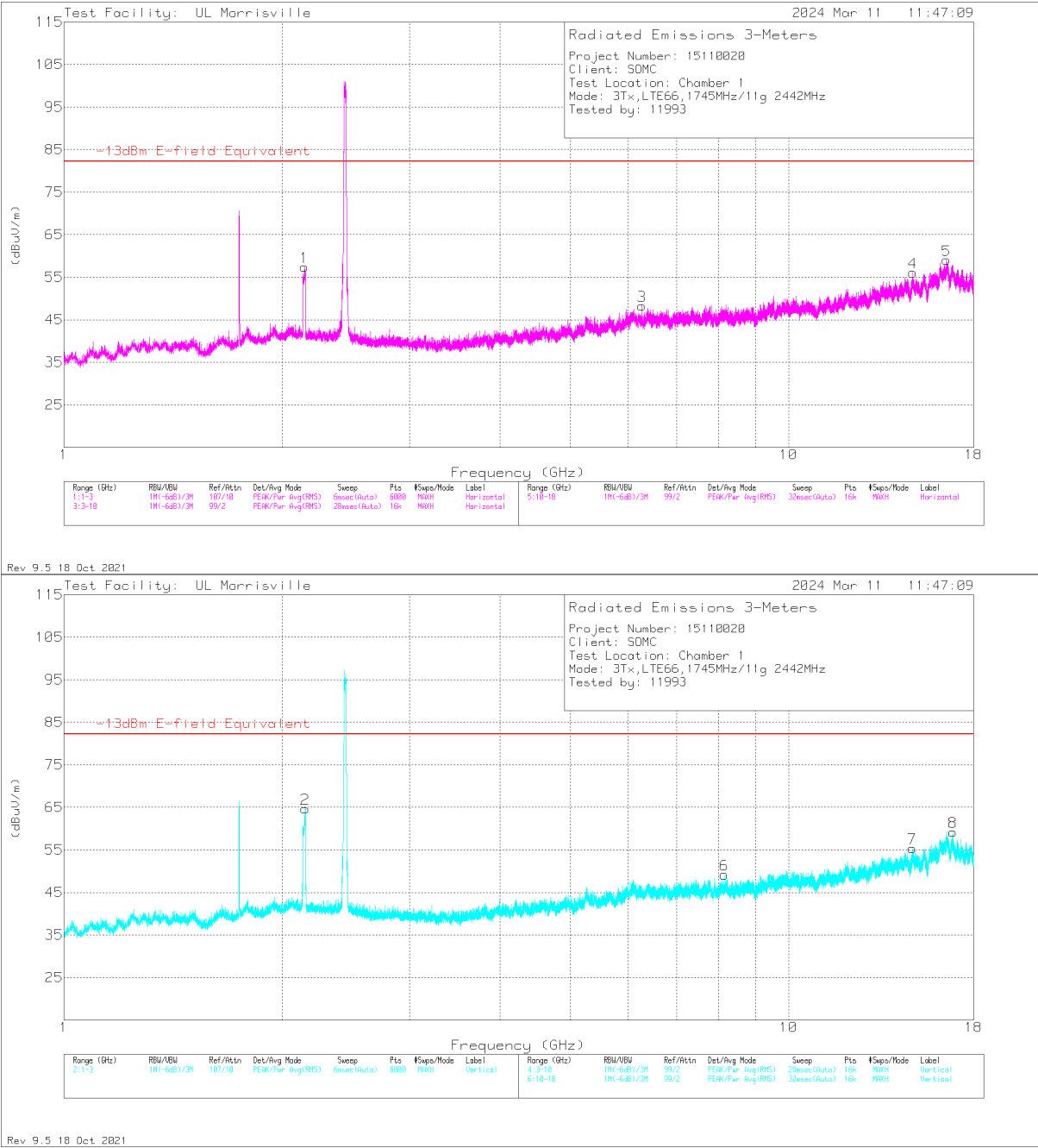
10.3.2. Scan 2



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	Filter (dB)	Corrected Reading (dBuV/m)	-13dBm E-field Equivalent	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1 (DL)	2.151	51.09	Pk	31.7	-23.3	1.2	60.69	-	-	0-360	199	H
2 (DL)	2.153	56.64	Pk	31.7	-23.3	1.2	66.24	-	-	0-360	200	V
6	4.49873	36.21	Pk	34	-20.3	.3	50.21	82.2	-31.99	0-360	200	V
3	7.33657	39.19	Pk	35.6	-27.3	0	47.49	82.2	-34.71	0-360	101	H
7	7.33657	42.12	Pk	35.6	-27.3	0	50.42	82.2	-31.78	0-360	101	V
4	13.60251	38.93	Pk	38.9	-24	0	53.83	82.2	-28.37	0-360	200	H
5	16.48616	37.88	Pk	41	-18.8	0	60.08	82.2	-22.12	0-360	200	H
8	16.5547	36.9	Pk	41.2	-18.5	0	59.6	82.2	-22.6	0-360	101	V

Pk - Peak detector DL – Down link from WWAN

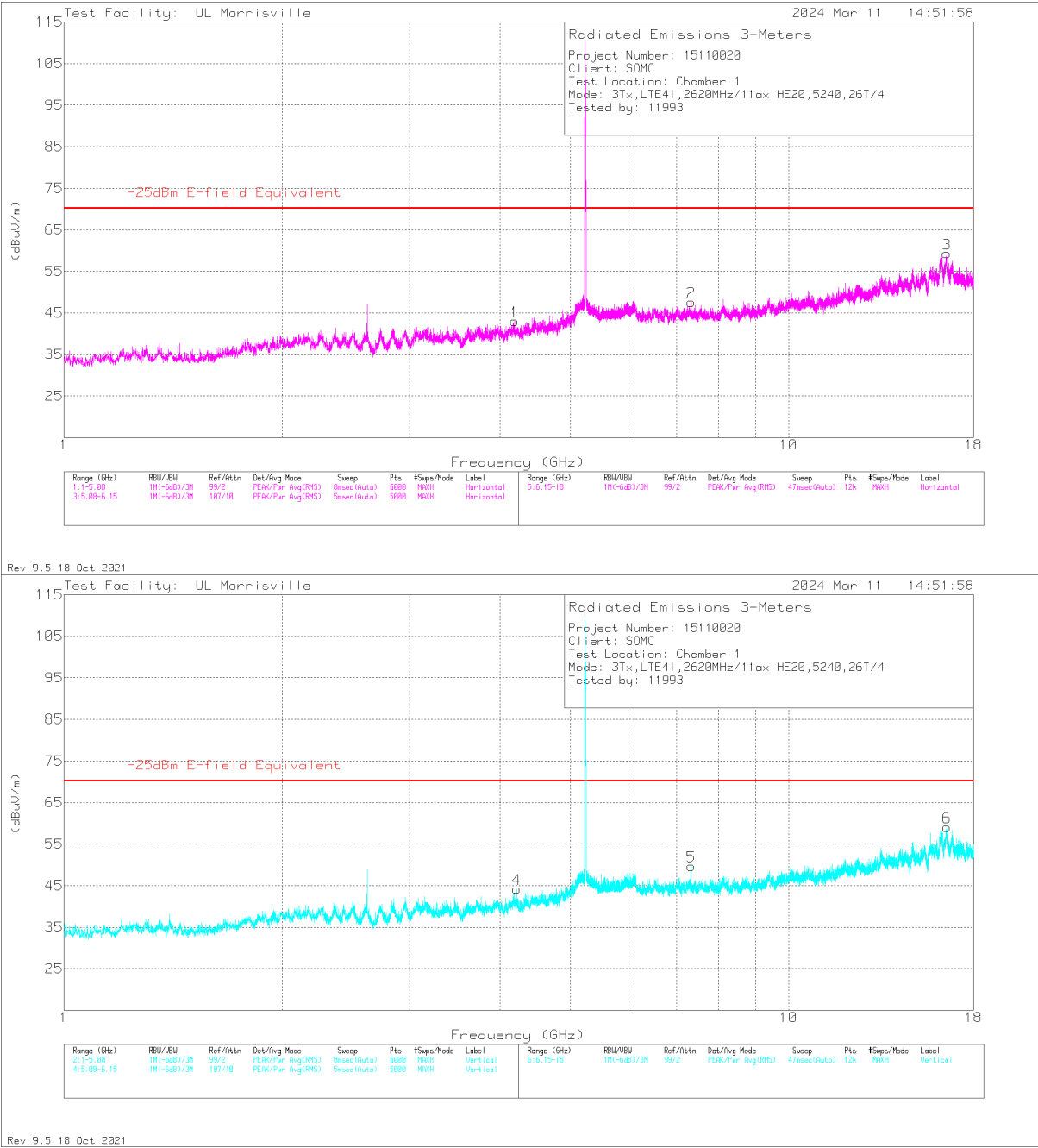
10.3.3. Scan 3



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	Filter (dB)	Corrected Reading (dBuV/m)	-13dBm E-field Equivalent	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7	14.81	37.78	Pk	39.8	-22.2	0	55.38	82.2	-26.82	0-360	101	V
4	14.8505	38.09	Pk	39.8	-21.8	0	56.09	82.2	-26.11	0-360	200	H
5	16.5125	36.74	Pk	41.1	-18.8	0	59.04	82.2	-23.16	0-360	200	H
8	16.852	35.73	Pk	41.6	-18.1	0	59.23	82.2	-22.97	0-360	200	V
1 (DL)	2.14686	47.83	Pk	31.6	-23.2	1.2	57.43	-	-	0-360	200	H
2 (DL)	2.15219	55.09	Pk	31.7	-23.3	1.2	64.69	-	-	0-360	200	V
3	6.27819	39.75	Pk	35.4	-27.5	.6	48.25	82.2	-33.95	0-360	199	H
6	8.15244	38.9	Pk	35.8	-26.2	.7	49.2	82.2	-33	0-360	200	V

Pk - Peak detector DL – Down link from WWAN

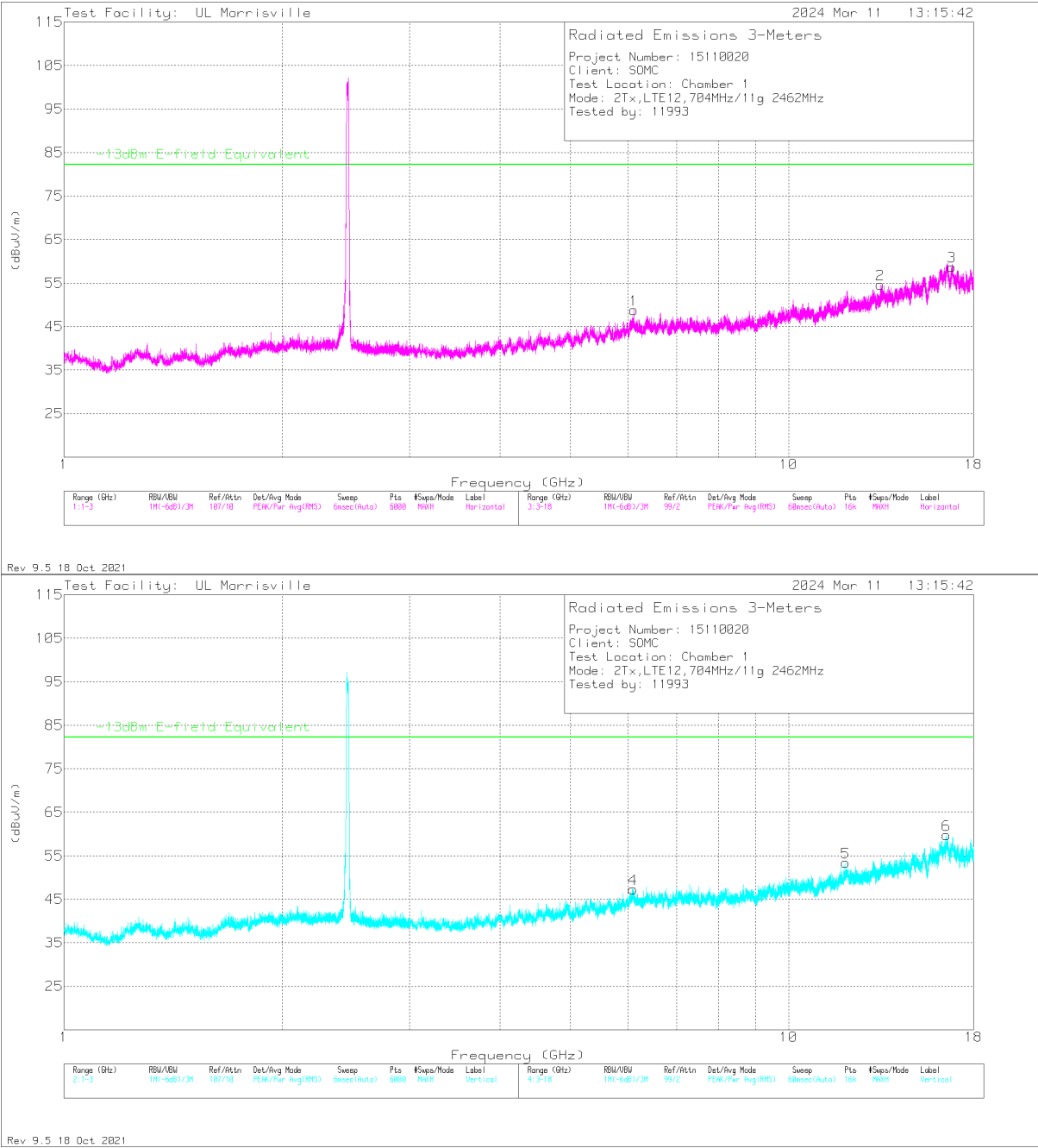
10.3.4. Scan 4



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	Filter (dB)	Corrected Reading (dBuV/m)	-25dBm E-field Equivalent	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	4.18769	39.54	Pk	33.4	-30.5	.6	43.04	70.2	-27.16	0-360	101	H
4	4.21557	41.52	Pk	33.4	-31.2	.5	44.22	70.2	-25.98	0-360	101	V
5	7.335	41.41	Pk	35.6	-27.3	0	49.71	70.2	-20.49	0-360	101	V
2	7.33698	39.34	Pk	35.6	-27.3	0	47.64	70.2	-22.56	0-360	101	H
3	16.52961	35.91	Pk	41.1	-17.7	0	59.31	70.2	-10.89	0-360	200	H
6	16.53751	35.61	Pk	41.1	-17.6	0	59.11	70.2	-11.09	0-360	200	V

Pk - Peak detector

10.3.5. Scan 5



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	Filter (dB)	Corrected Reading (dBuV/m)	-13dBm E-field Equivalent	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	6.09938	39.81	Pk	35.3	-28.1	.3	47.31	82.2	-34.89	0-360	101	V
1	6.11344	41.52	Pk	35.3	-28.3	.3	48.82	82.2	-33.38	0-360	101	H
5	11.98406	36.93	Pk	38.6	-22.8	.7	53.43	82.2	-28.77	0-360	200	V
2	13.38563	38.66	Pk	39.1	-23.7	.6	54.66	82.2	-27.54	0-360	200	H
6	16.51781	36.08	Pk	41.1	-18.3	.9	59.78	82.2	-22.42	0-360	200	V
3	16.79063	36.25	Pk	41.6	-20.1	1	58.75	82.2	-23.45	0-360	200	H

Pk - Peak detector

11. SETUP PHOTOS

Please see R15110020-RP9 For Setup Photos and Setup Diagrams.

END OF REPORT