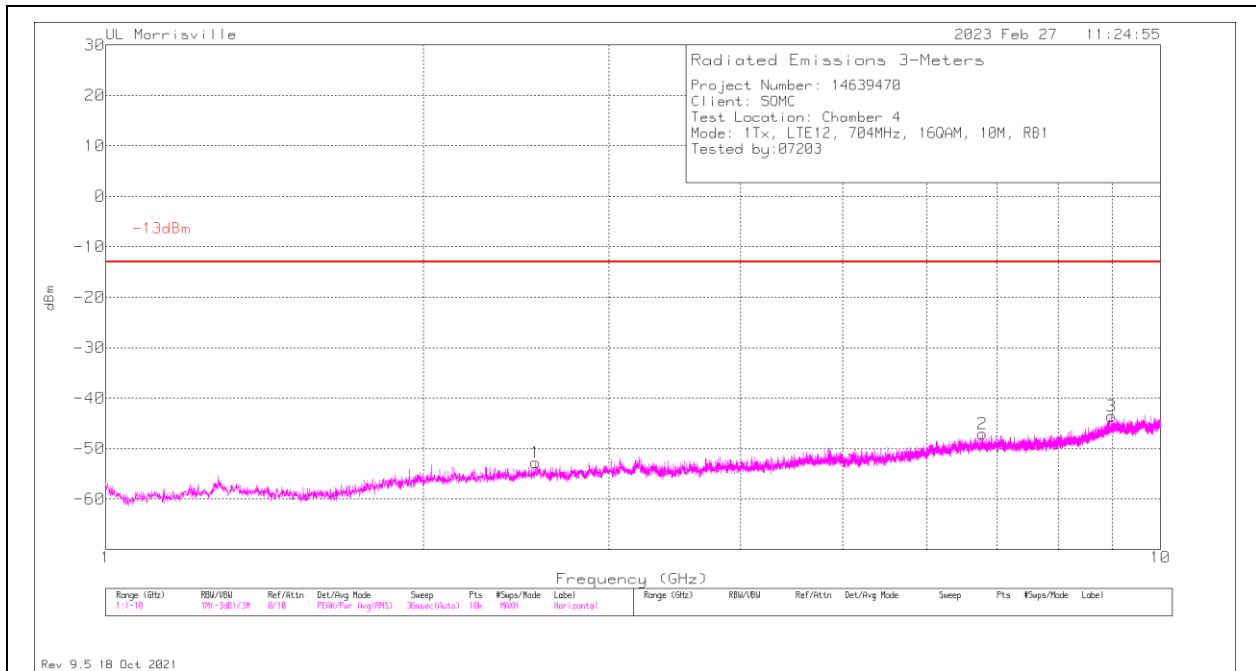


RADIATED EMISSIONS

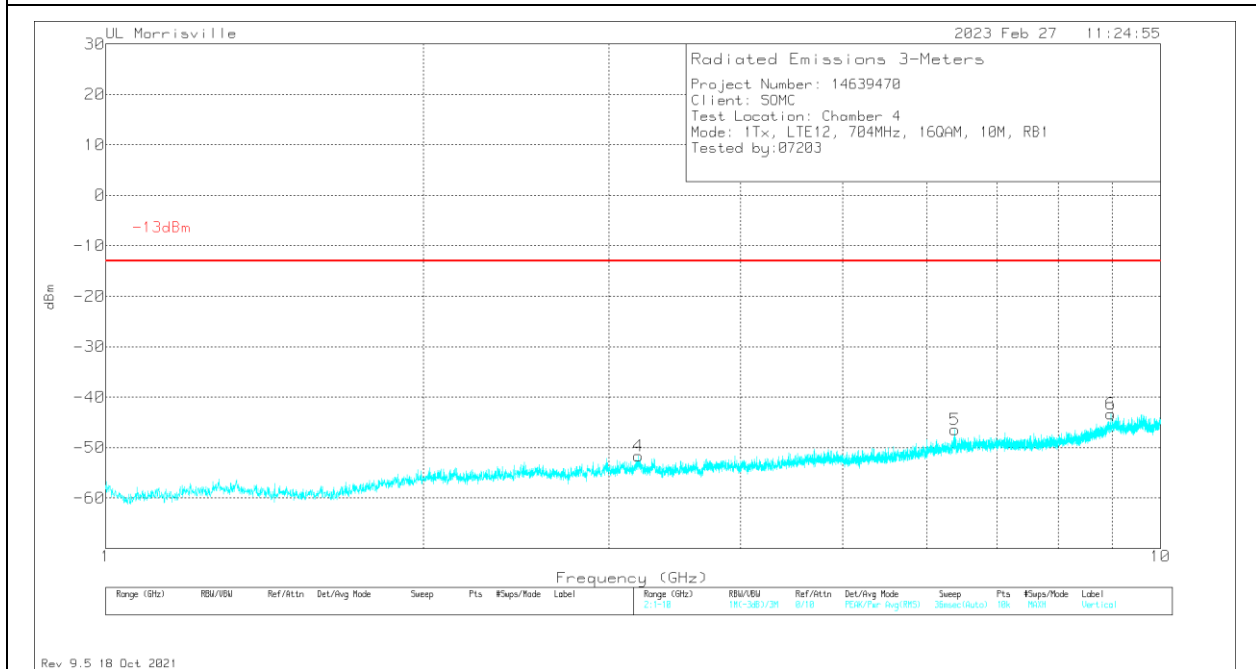
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.4526	-61.22	Pk	32.3	-36.1	.4	11.8	-52.82	-13	-39.82	0-360	100	H
4	2.5579	-61.52	Pk	32.7	-36.1	.5	11.8	-52.62	-13	-39.62	0-360	300	V
2	5.4001	-64.3	Pk	34.6	-31.8	.4	11.8	-49.3	-13	-36.3	0-360	100	H
5	6.6718	-65.27	Pk	35.6	-29.3	.6	11.8	-46.57	-13	-33.57	0-360	200	V
6	9.0334	-65.26	Pk	36.1	-26.4	.5	11.8	-43.26	-13	-30.26	0-360	200	V
3	9.0775	-65.7	Pk	36.1	-26.6	.7	11.8	-43.7	-13	-30.7	0-360	100	H

Pk - Peak detector

16QAM LOW CHANNEL



HORIZONTAL



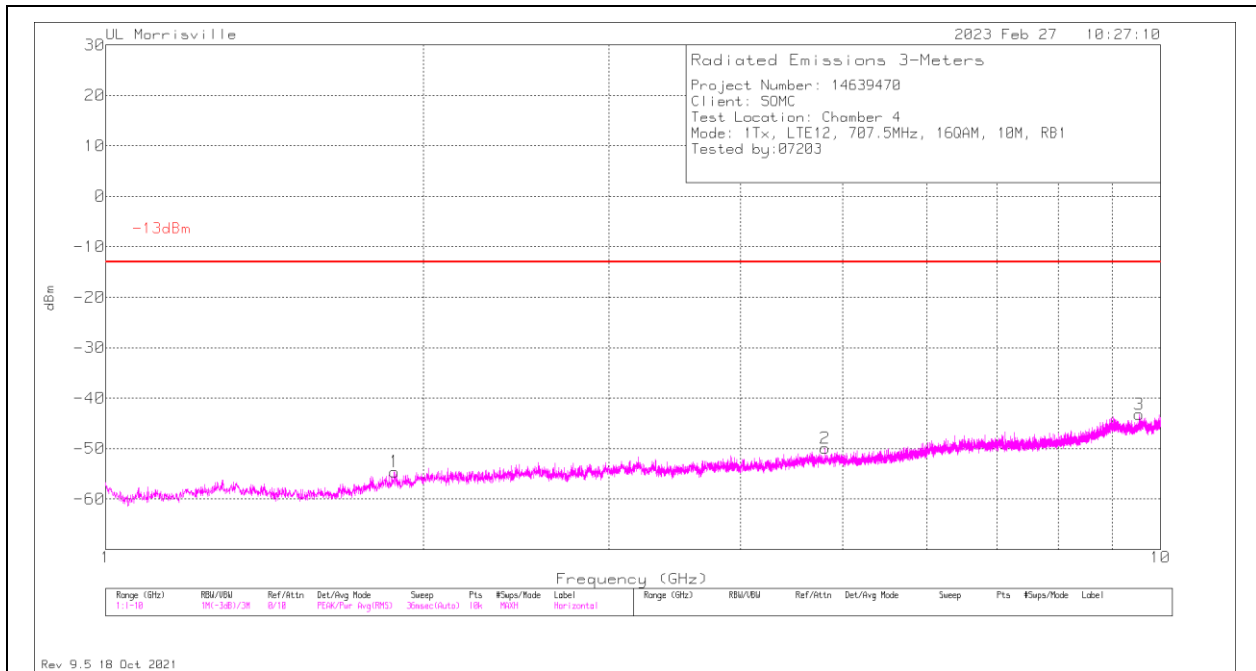
VERTICAL

RADIATED EMISSIONS

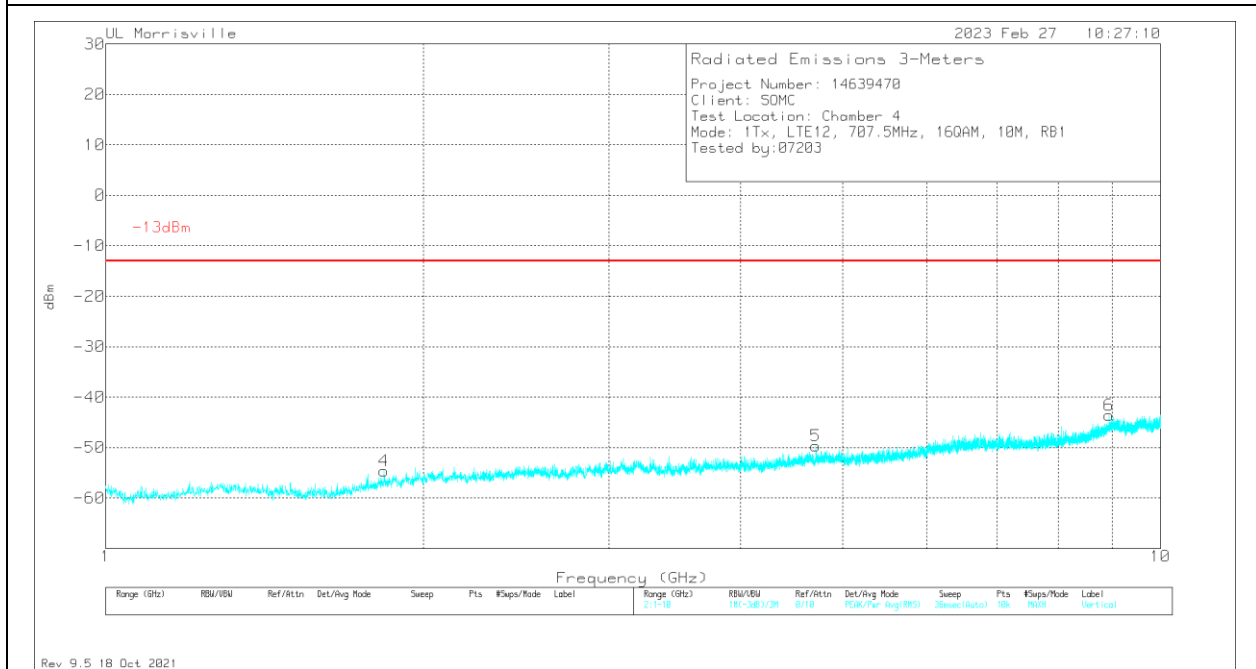
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.557	-61.54	Pk	32.7	-36.2	.5	11.8	-52.74	-13	-39.74	0-360	100	H
4	3.1987	-62.01	Pk	33.3	-35.5	.8	11.8	-51.61	-13	-38.61	0-360	200	V
5	6.3802	-65.09	Pk	35.6	-29.6	.8	11.8	-46.49	-13	-33.49	0-360	300	V
2	6.7843	-66.17	Pk	35.6	-29	.7	11.8	-47.07	-13	-34.07	0-360	100	H
6	8.9794	-65.62	Pk	36.1	-26.1	.5	11.8	-43.32	-13	-30.32	0-360	200	V
3	8.9911	-65.99	Pk	36.1	-26	.5	11.8	-43.59	-13	-30.59	0-360	100	H

Pk - Peak detector

16QAM MID CHANNEL



HORIZONTAL



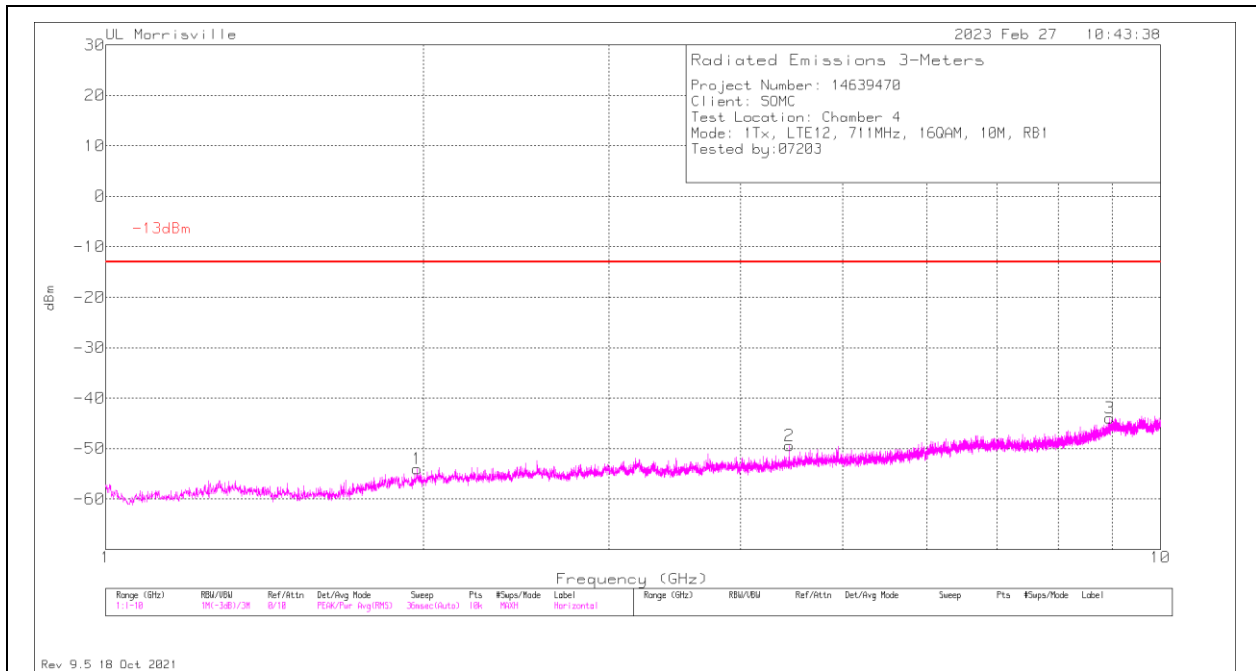
VERTICAL

RADIATED EMISSIONS

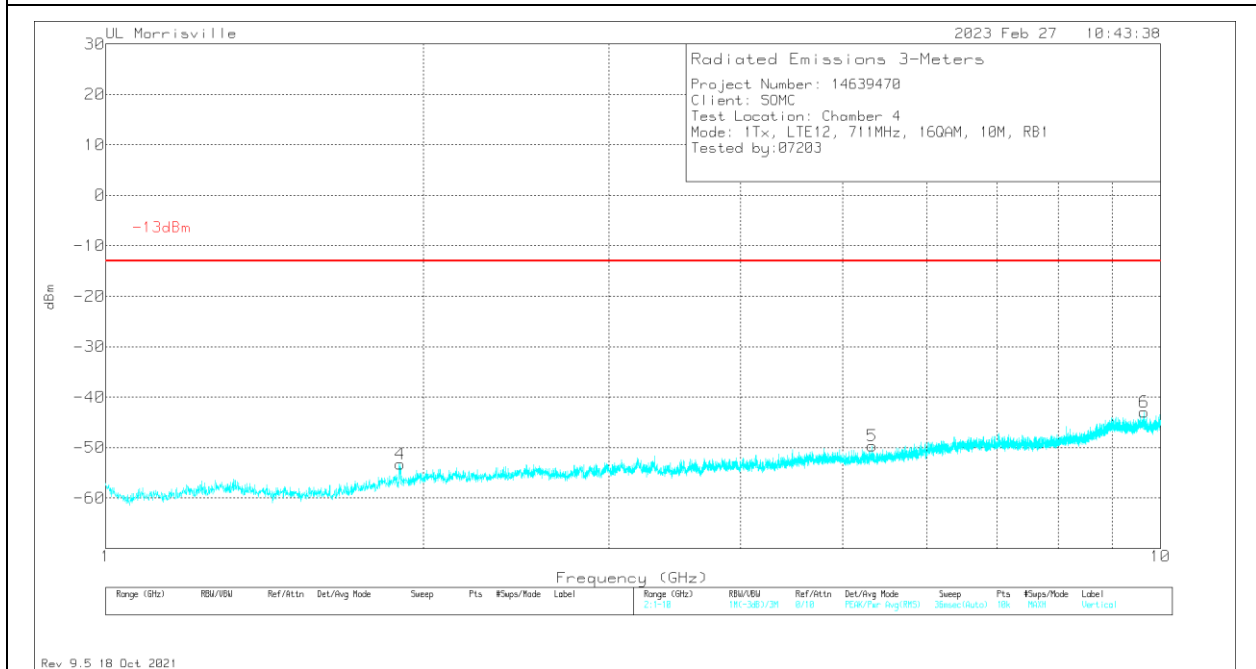
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.8361	-61.6	Pk	30.9	-36.1	.4	11.8	-54.6	-13	-41.6	0-360	300	V
1	1.8775	-61.78	Pk	31.3	-36.3	.4	11.8	-54.58	-13	-41.58	0-360	100	H
5	4.7143	-63.6	Pk	34	-32.2	.3	11.8	-49.7	-13	-36.7	0-360	300	V
2	4.8124	-64.14	Pk	34.1	-32	.3	11.8	-49.94	-13	-36.94	0-360	100	H
6	8.9407	-65.58	Pk	36.1	-26.5	.6	11.8	-43.58	-13	-30.58	0-360	200	V
3	9.5473	-66.09	Pk	36.6	-26.1	.6	11.8	-43.19	-13	-30.19	0-360	100	H

Pk - Peak detector

16QAM HIGH CHANNEL



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

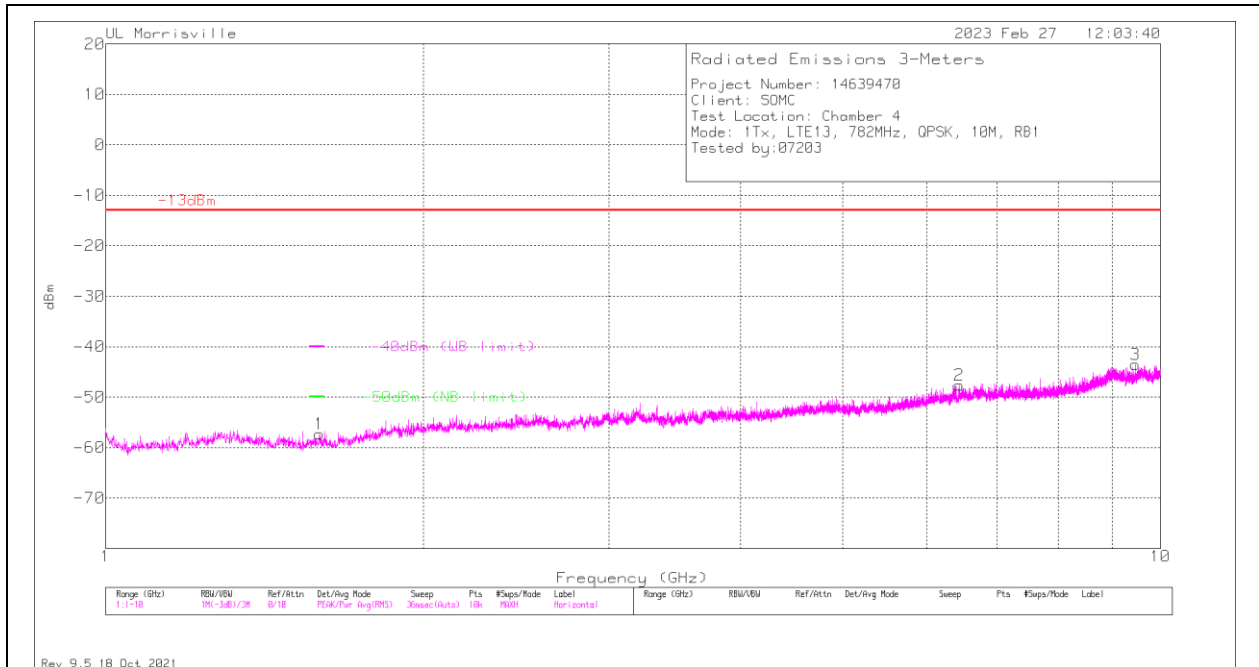
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.9027	-60.33	Pk	31.1	-36.2	.4	11.8	-53.23	-13	-40.23	0-360	200	V
1	1.9747	-61.5	Pk	31.6	-36.2	.3	11.8	-54	-13	-41	0-360	100	H
2	4.4497	-62.88	Pk	33.7	-32.4	.3	11.8	-49.48	-13	-36.48	0-360	200	H
5	5.3272	-64.17	Pk	34.4	-32	.3	11.8	-49.67	-13	-36.67	0-360	300	V
3	8.9506	-66.03	Pk	36.1	-26.4	.6	11.8	-43.93	-13	-30.93	0-360	200	H
6	9.6454	-65.96	Pk	36.7	-26.4	.9	11.8	-42.96	-13	-29.96	0-360	200	V

Pk - Peak detector

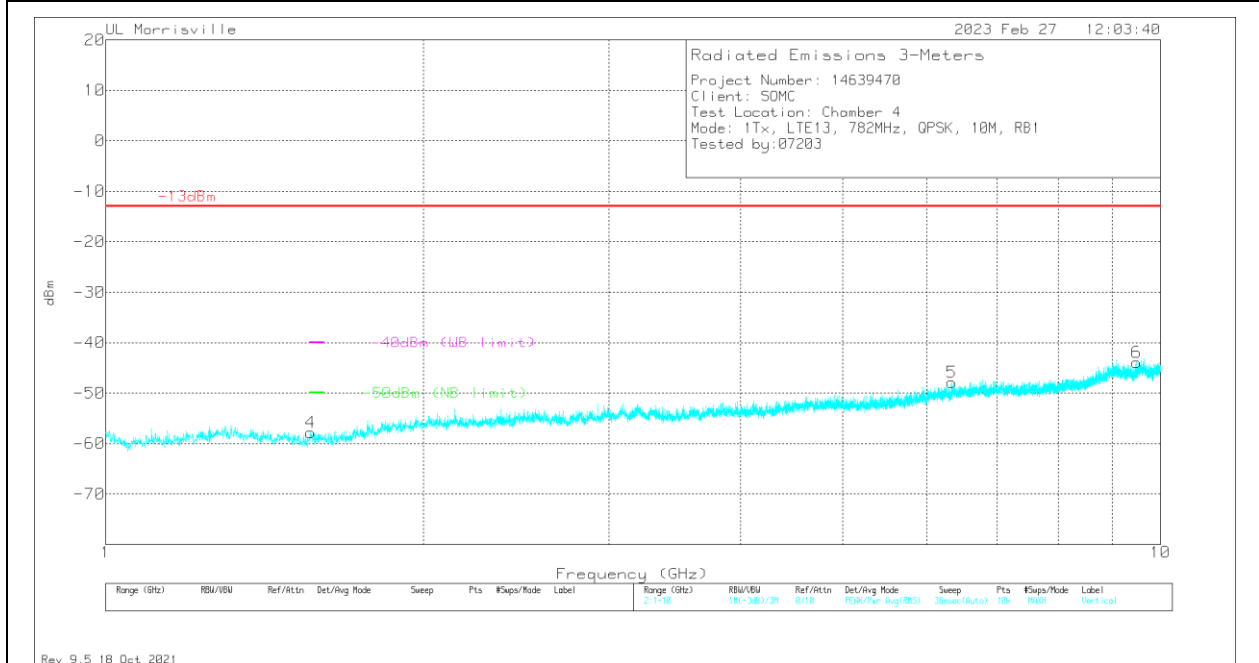
11.1.9. LTE13

Test Engineer ID:	11993	Test Date:	2023-02-27	Sample Used:	QV77003JFR
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QPSK MID CHANNEL



HORIZONTAL



VERTICAL

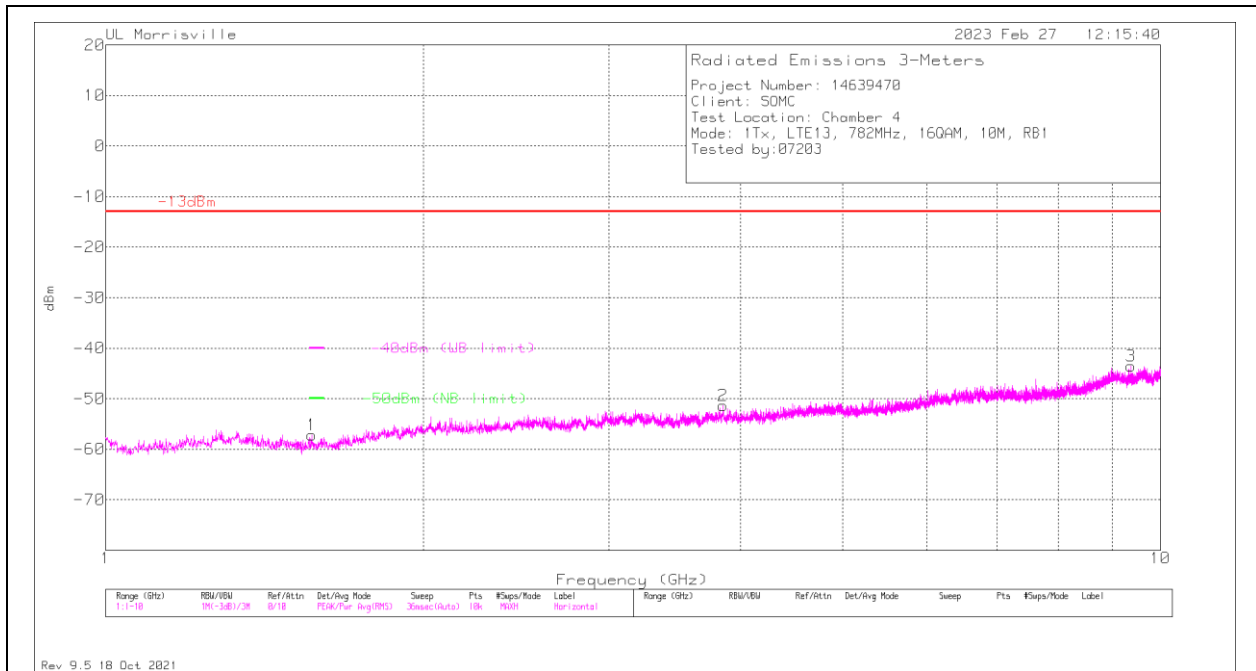
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	-50dBm (NB limit)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.5634	-62.56	Pk	28.4	-36.1	.7	11.8	-57.76	-13	-44.76	-50	-7.76	0-360	300	V
1	1.5949	-62.06	Pk	28.8	-36.3	.5	11.8	-57.26	-13	-44.26	-50	-7.26	0-360	100	H
5	6.3379	-66.24	Pk	35.5	-29.7	.8	11.8	-47.84	-13	-34.84	-	-	0-360	300	V
2	6.4423	-66.19	Pk	35.6	-29.4	.6	11.8	-47.59	-13	-34.59	-	-	0-360	200	H
3	9.4618	-65.99	Pk	36.5	-26.5	.7	11.8	-43.49	-13	-30.49	-	-	0-360	200	H
6	9.496	-66.56	Pk	36.6	-26.6	.9	11.8	-43.86	-13	-30.86	-	-	0-360	200	V

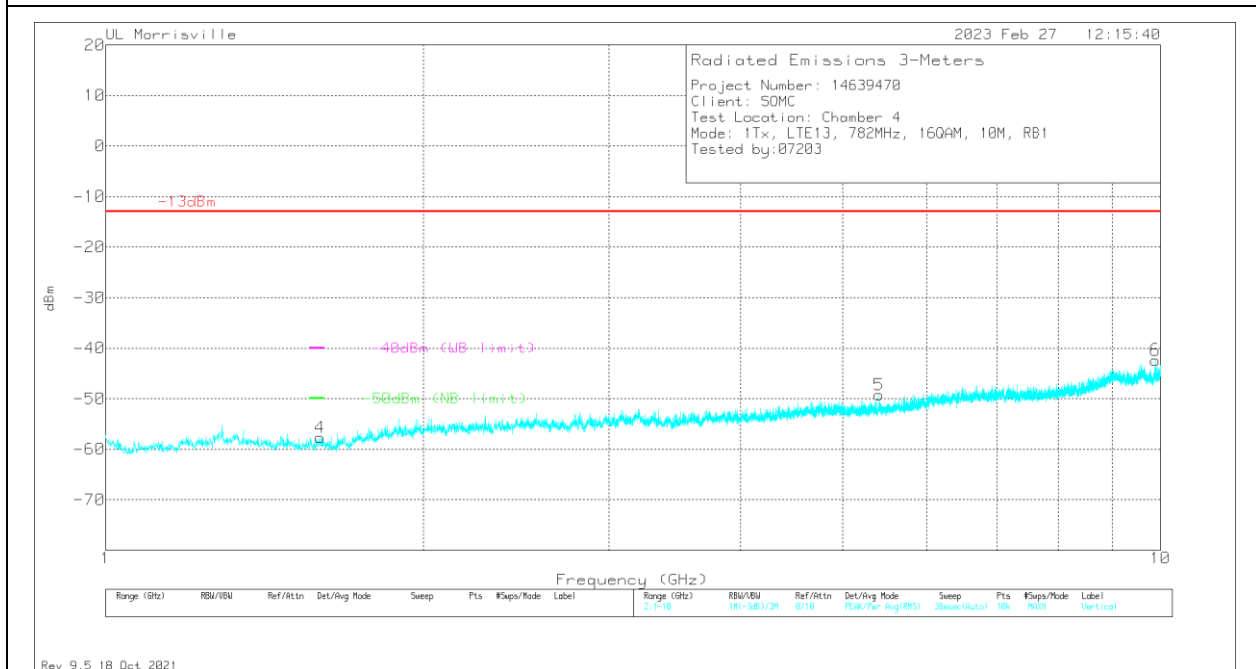
Pk - Peak detector

Note: -50dBm Narrowband limit used as WC. No emissions in the GPS band were observed.

16QAM MID CHANNEL



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	-50dBm (NB limit)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.5679	-61.96	Pk	28.5	-36.1	.6	11.8	-57.16	-13	-44.16	-50	-7.16	0-360	200	H
4	1.5958	-62.52	Pk	28.8	-36.3	.5	11.8	-57.72	-13	-44.72	-50	-7.72	0-360	300	V
2	3.8503	-63.4	Pk	33.5	-33.7	.5	11.8	-51.3	-13	-38.3	-	-	0-360	100	H
5	5.4118	-63.98	Pk	34.6	-32.1	.4	11.8	-49.28	-13	-36.28	-	-	0-360	200	V
3	9.3718	-66.09	Pk	36.4	-26.5	.8	11.8	-43.59	-13	-30.59	-	-	0-360	100	H
6	9.8938	-65.16	Pk	37	-26.9	.9	11.8	-42.36	-13	-29.36	-	-	0-360	200	V

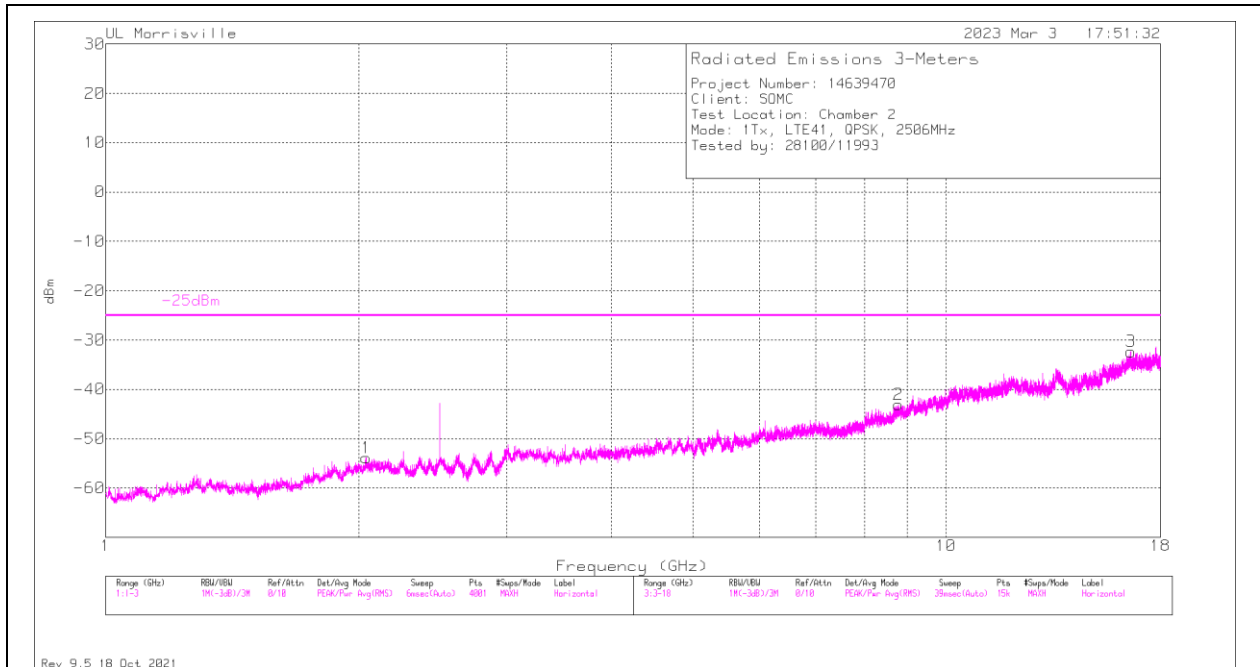
Pk - Peak detector

Note: -50dBm Narrowband limit used as WC. No emissions in the GPS band were observed.

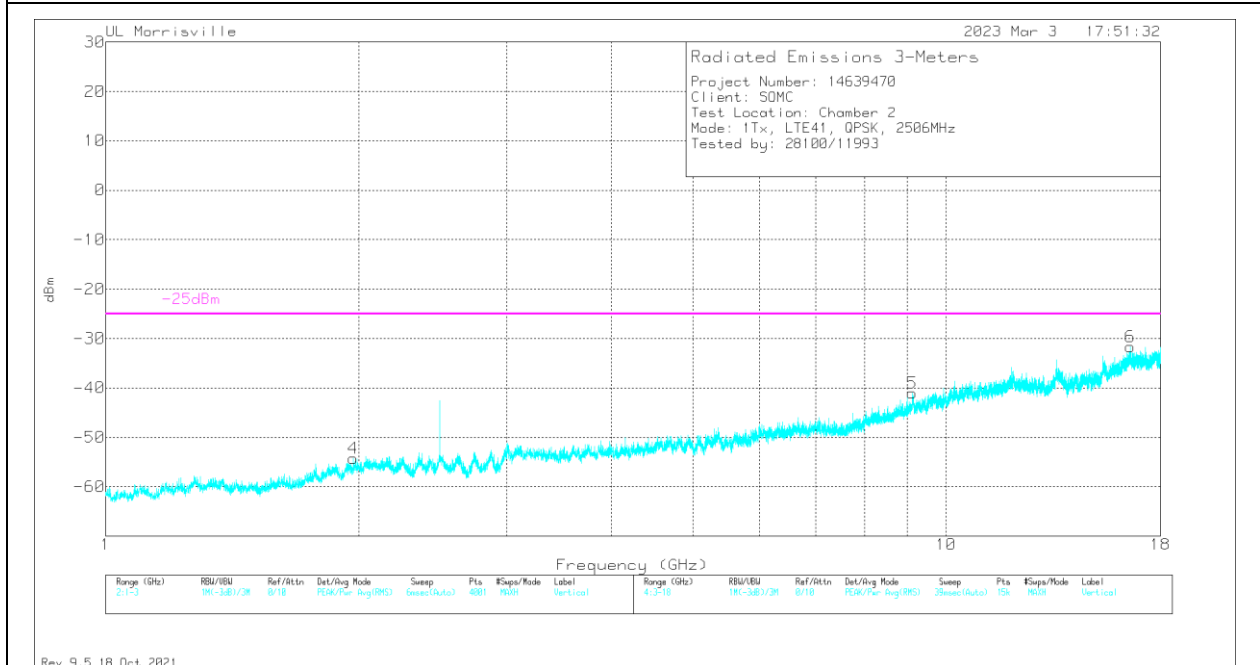
11.1.10. LTE41

Test Engineer ID:	28100/11993	Test Date:	2023-03-03	Sample Used:	QV7700HTFR
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QPSK LOW CHANNEL



HORIZONTAL



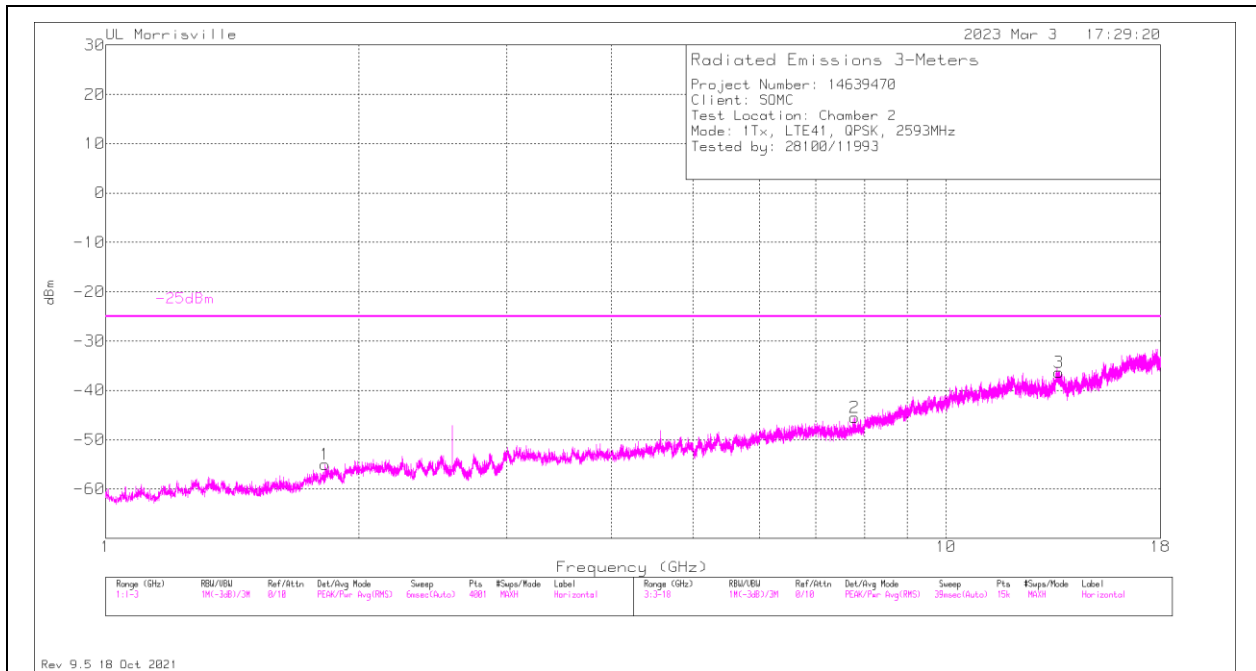
VERTICAL

RADIATED EMISSIONS

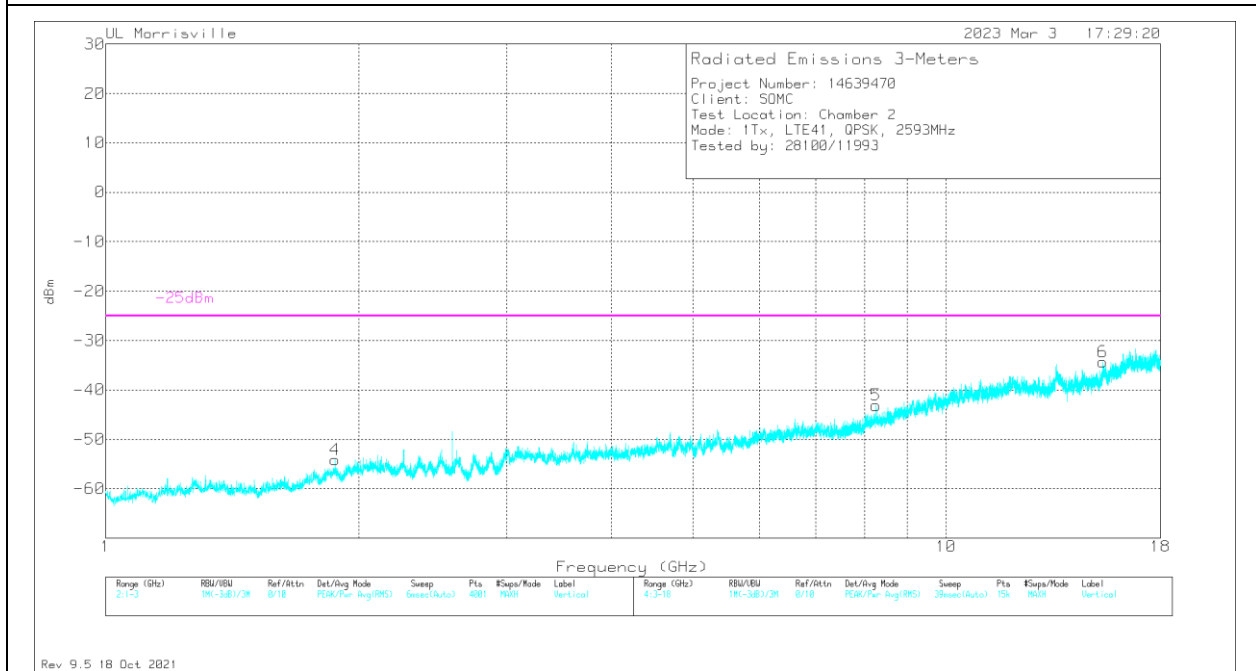
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.9715	-63.7	Pk	31	-34.4	11.8	1.1	-54.2	-25	-29.2	0-360	200	V
1	2.041	-64.33	Pk	31.6	-34.1	11.8	1.2	-53.83	-25	-28.83	0-360	199	H
2	8.779	-65.73	Pk	36	-25.6	11.8	.4	-43.13	-25	-18.13	0-360	200	H
5	9.111	-64.36	Pk	36.2	-25.5	11.8	.8	-41.06	-25	-16.06	0-360	300	V
6	16.578	-64.98	Pk	41.4	-21.2	11.8	1.3	-31.68	-25	-6.68	0-360	101	V
3	16.596	-64.55	Pk	41.5	-22.3	11.8	1.2	-32.35	-25	-7.35	0-360	300	H

Pk - Peak detector

QPSK MID CHANNEL



HORIZONTAL



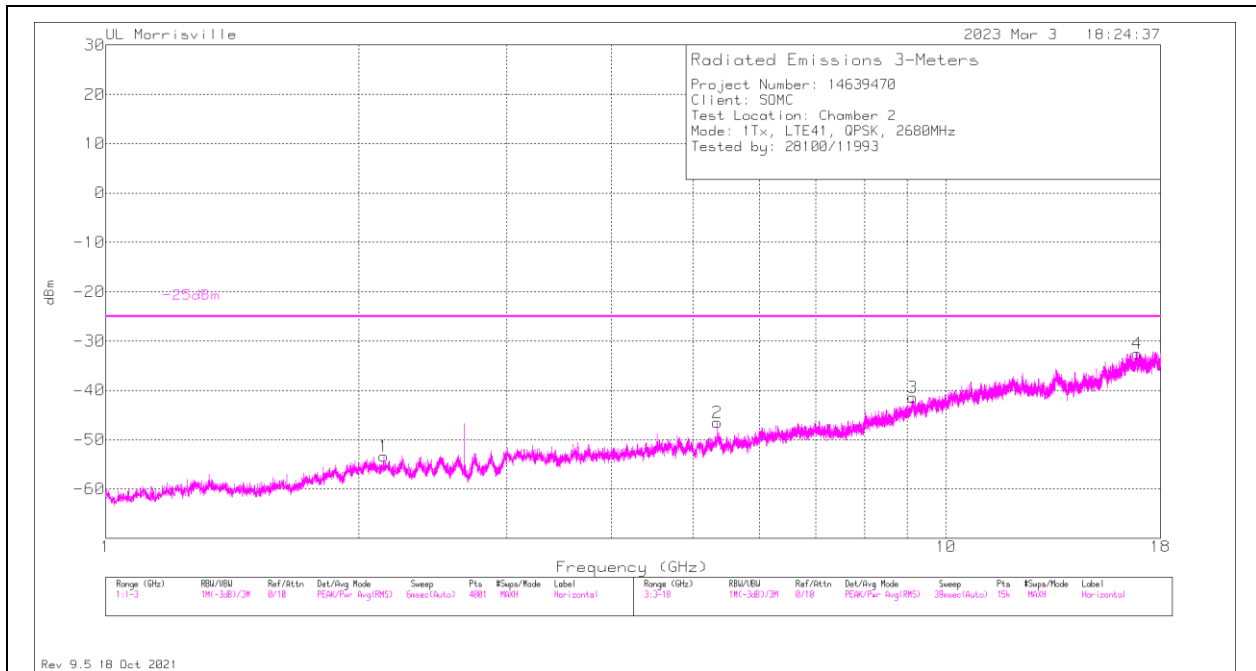
VERTICAL

RADIATED EMISSIONS

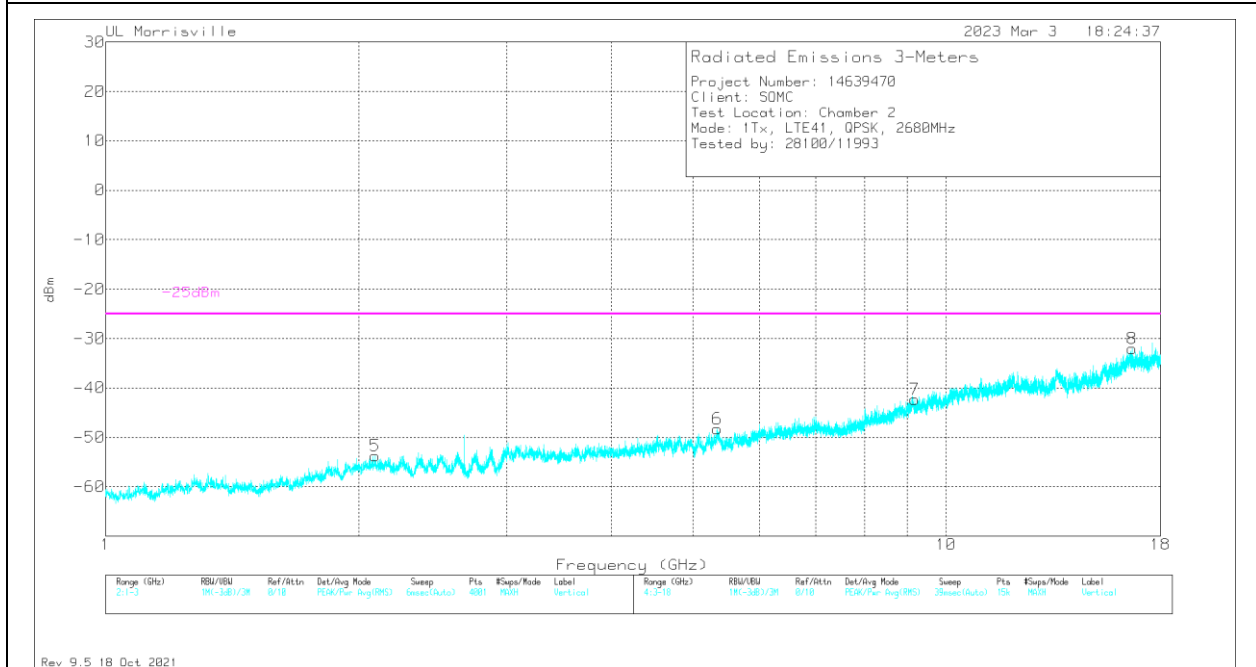
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.8235	-63.51	Pk	30.1	-34.5	11.8	1.1	-55.01	-25	-30.01	0-360	200	H
4	1.8735	-63.32	Pk	30.6	-34.2	11.8	1	-54.12	-25	-29.12	0-360	101	V
2	7.782	-66.74	Pk	35.8	-26.8	11.8	.4	-45.54	-25	-20.54	0-360	101	H
5	8.252	-64.54	Pk	35.8	-26.7	11.8	.5	-43.14	-25	-18.14	0-360	300	V
3	13.632	-62.86	Pk	38.7	-24.6	11.8	.6	-36.36	-25	-11.36	0-360	200	H
6	15.361	-65.27	Pk	40	-21.5	11.8	.7	-34.27	-25	-9.27	0-360	200	V

Pk - Peak detector

QPSK HIGH CHANNEL



HORIZONTAL



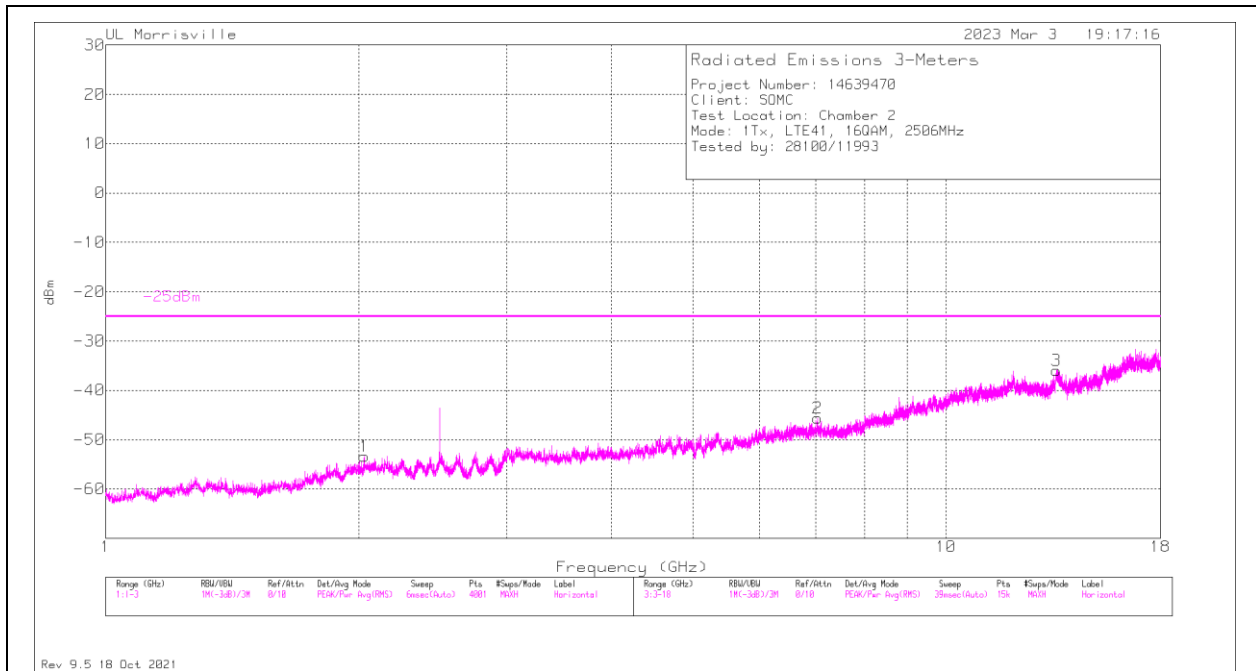
VERTICAL

RADIATED EMISSIONS

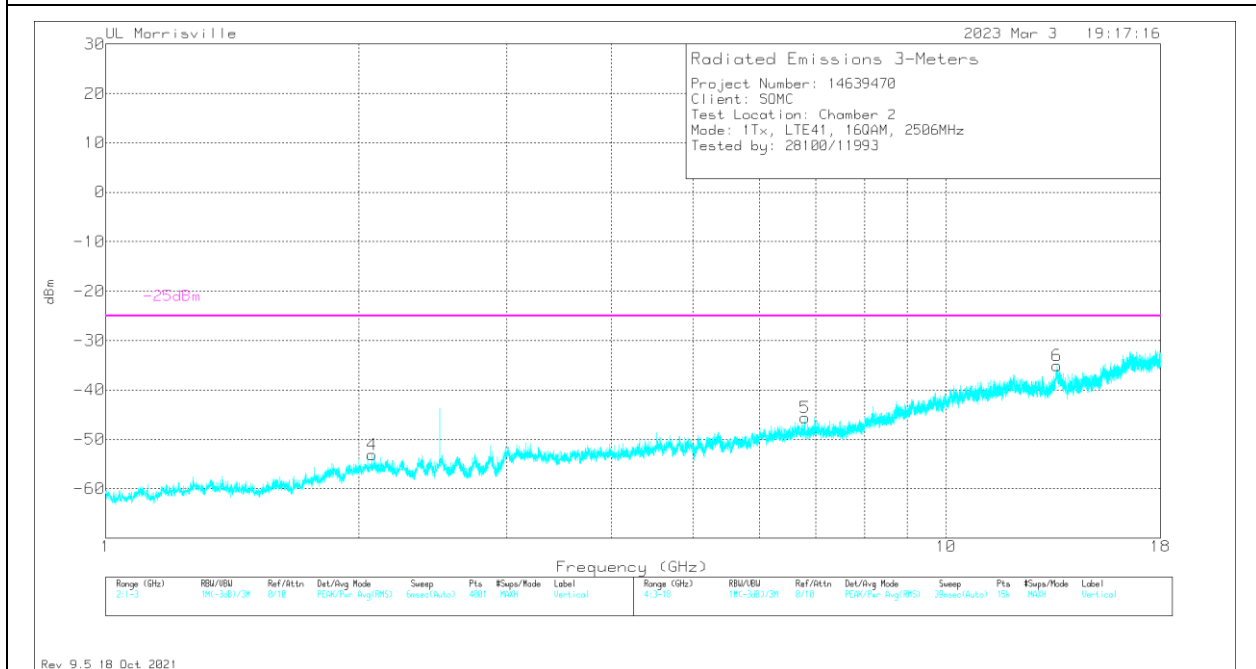
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	2.0925	-64.07	Pk	31.5	-34.2	11.8	1.2	-53.77	-25	-28.77	0-360	300	V
1	2.142	-63.05	Pk	31.5	-34.8	11.8	1.2	-53.35	-25	-28.35	0-360	300	H
2	5.342	-65.01	Pk	34.6	-28.8	11.8	.9	-46.51	-25	-21.51	0-360	101	H
6	5.348	-67.06	Pk	34.6	-28.5	11.8	.9	-48.26	-25	-23.26	0-360	101	V
3	9.14	-65.24	Pk	36.2	-25	11.8	.8	-41.44	-25	-16.44	0-360	201	H
7	9.181	-65.28	Pk	36.3	-25.6	11.8	.5	-42.28	-25	-17.28	0-360	101	V
8	16.648	-63.96	Pk	41.7	-22.6	11.8	1	-32.06	-25	-7.06	0-360	200	V
4	16.886	-65.38	Pk	41.8	-22	11.8	1.2	-32.58	-25	-7.58	0-360	101	H

Pk - Peak detector

16QAM LOW CHANNEL



HORIZONTAL



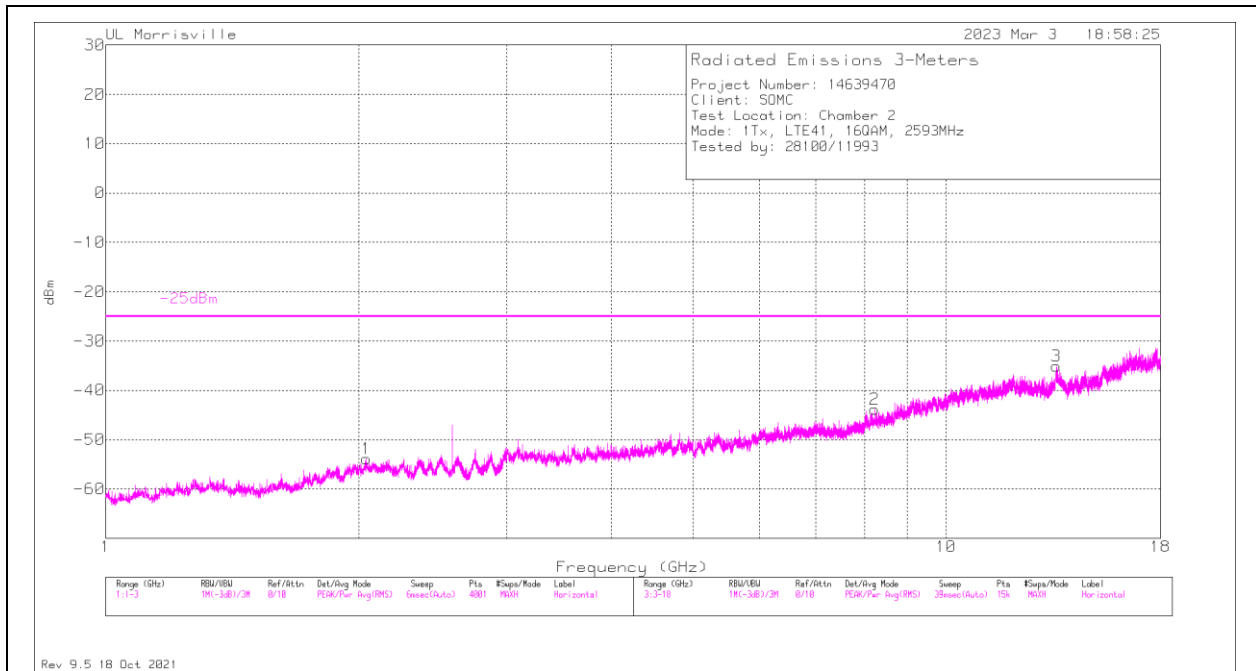
VERTICAL

RADIATED EMISSIONS

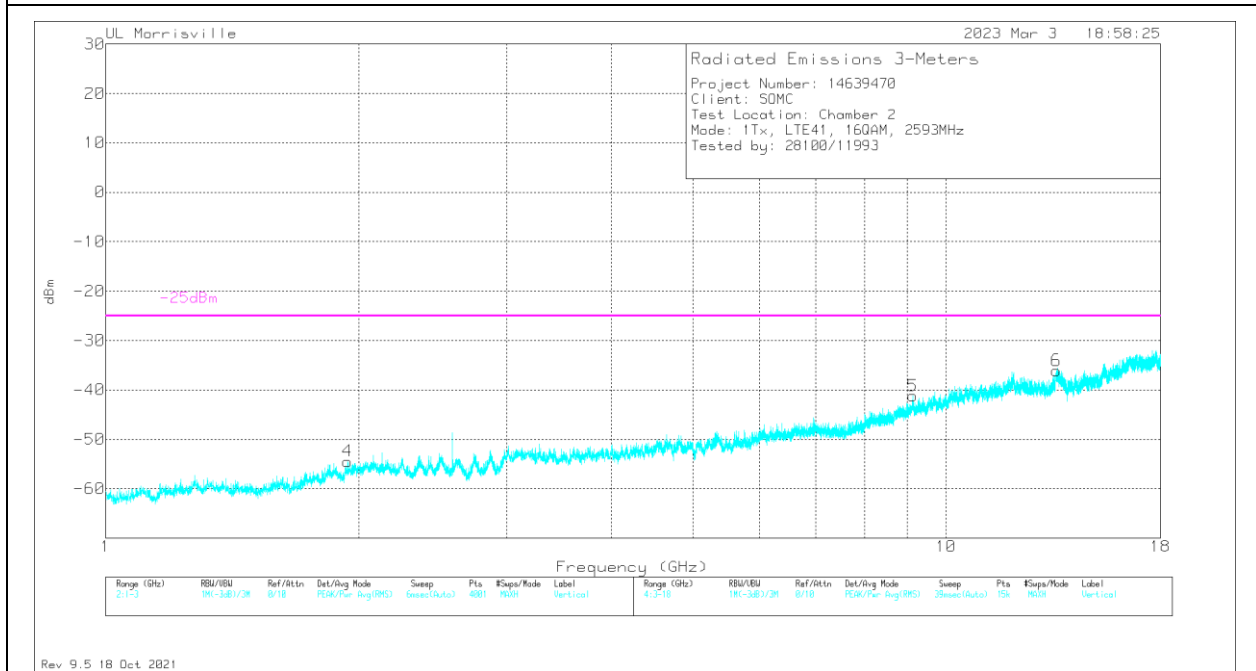
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.0305	-63.81	Pk	31.6	-34.2	11.8	1.2	-53.41	-25	-28.41	0-360	199	H
4	2.074	-63.29	Pk	31.6	-34.4	11.8	1.2	-53.09	-25	-28.09	0-360	300	V
5	6.797	-65.77	Pk	35.6	-27.8	11.8	.5	-45.67	-25	-20.67	0-360	200	V
2	7.036	-66.2	Pk	35.6	-27.3	11.8	.5	-45.6	-25	-20.6	0-360	199	H
3	13.54	-62.78	Pk	38.8	-24.3	11.8	.5	-35.98	-25	-10.98	0-360	300	H
6	13.557	-62.18	Pk	38.8	-24.1	11.8	.6	-35.08	-25	-10.08	0-360	300	V

Pk - Peak detector

16QAM MID CHANNEL



HORIZONTAL



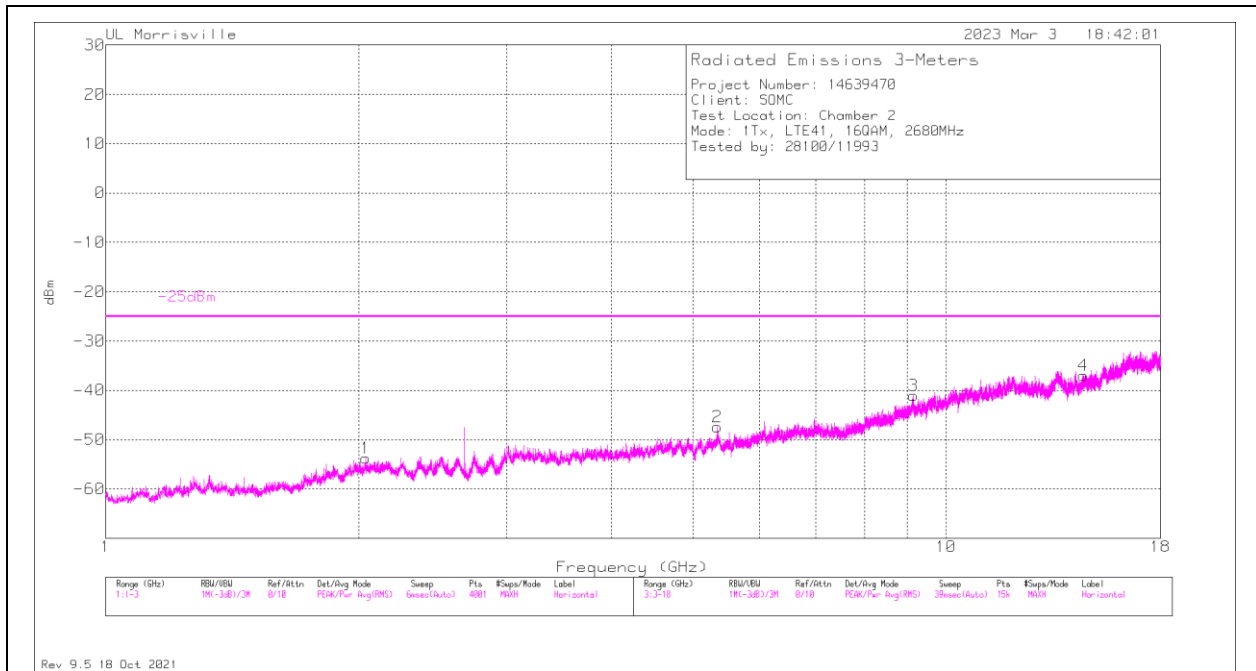
VERTICAL

RADIATED EMISSIONS

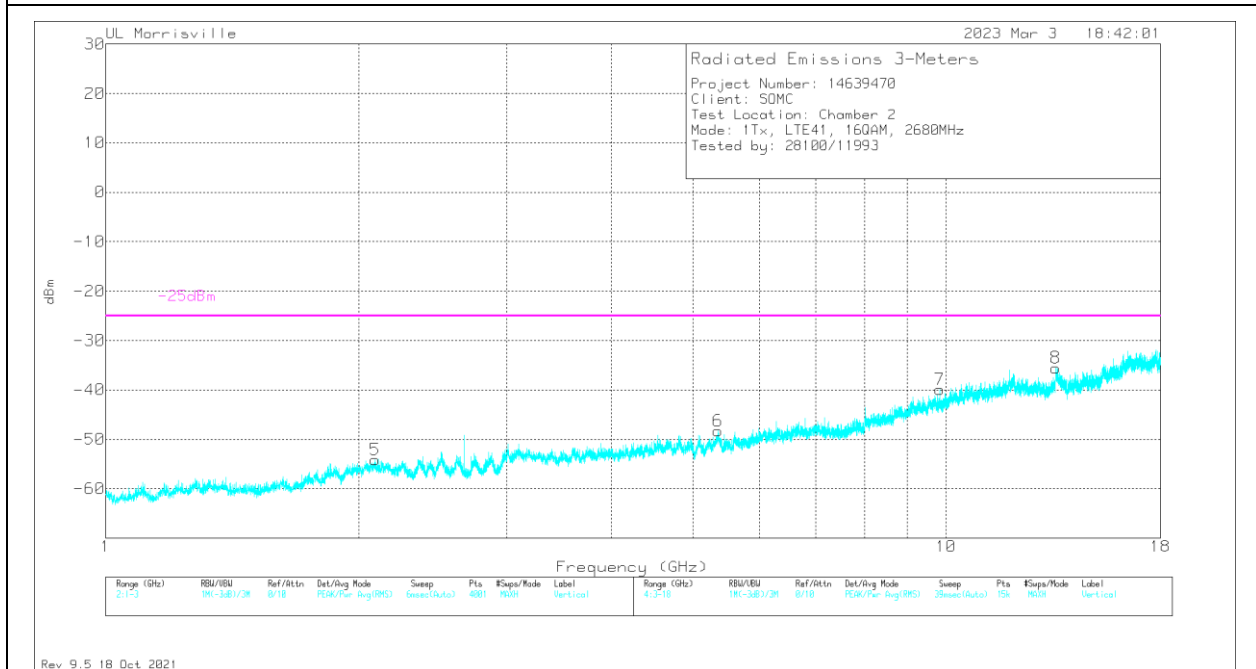
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.9415	-63.74	Pk	30.7	-34.4	11.8	1.2	-54.44	-25	-29.44	0-360	101	V
1	2.0415	-64.24	Pk	31.6	-34.2	11.8	1.2	-53.84	-25	-28.84	0-360	200	H
2	8.225	-65.27	Pk	35.7	-26.5	11.8	.4	-43.87	-25	-18.87	0-360	200	H
5	9.133	-65.03	Pk	36.2	-25	11.8	.9	-41.13	-25	-16.13	0-360	300	V
3	13.524	-61.96	Pk	38.8	-24.2	11.8	.5	-35.06	-25	-10.06	0-360	101	H
6	13.545	-63.14	Pk	38.8	-24.1	11.8	.6	-36.04	-25	-11.04	0-360	200	V

Pk - Peak detector

16QAM HIGH CHANNEL



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

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	2.0385	-64.3	Pk	31.6	-34.1	11.8	1.2	-53.8	-25	-28.8	0-360	100	H
5	2.0915	-64.39	Pk	31.5	-34.2	11.8	1.2	-54.09	-25	-29.09	0-360	300	V
2	5.342	-65.9	Pk	34.6	-28.8	11.8	.9	-47.4	-25	-22.4	0-360	300	H
6	5.351	-66.89	Pk	34.6	-28.6	11.8	.8	-48.29	-25	-23.29	0-360	300	V
3	9.142	-64.76	Pk	36.2	-25.1	11.8	.8	-41.06	-25	-16.06	0-360	101	H
7	9.825	-65.13	Pk	36.9	-25.1	11.8	1.6	-39.93	-25	-14.93	0-360	101	V
8	13.503	-62.73	Pk	38.8	-23.9	11.8	.5	-35.53	-25	-10.53	0-360	200	V
4	14.583	-66.68	Pk	39.4	-22.4	11.8	.9	-36.98	-25	-11.98	0-360	300	H

Pk - Peak detector

11.2. WORST CASE EMISSIONS

RULE PART(S)

FCC: §2.1053, §22.917, §27.53.

LIMITS

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.

TEST PROCEDURE

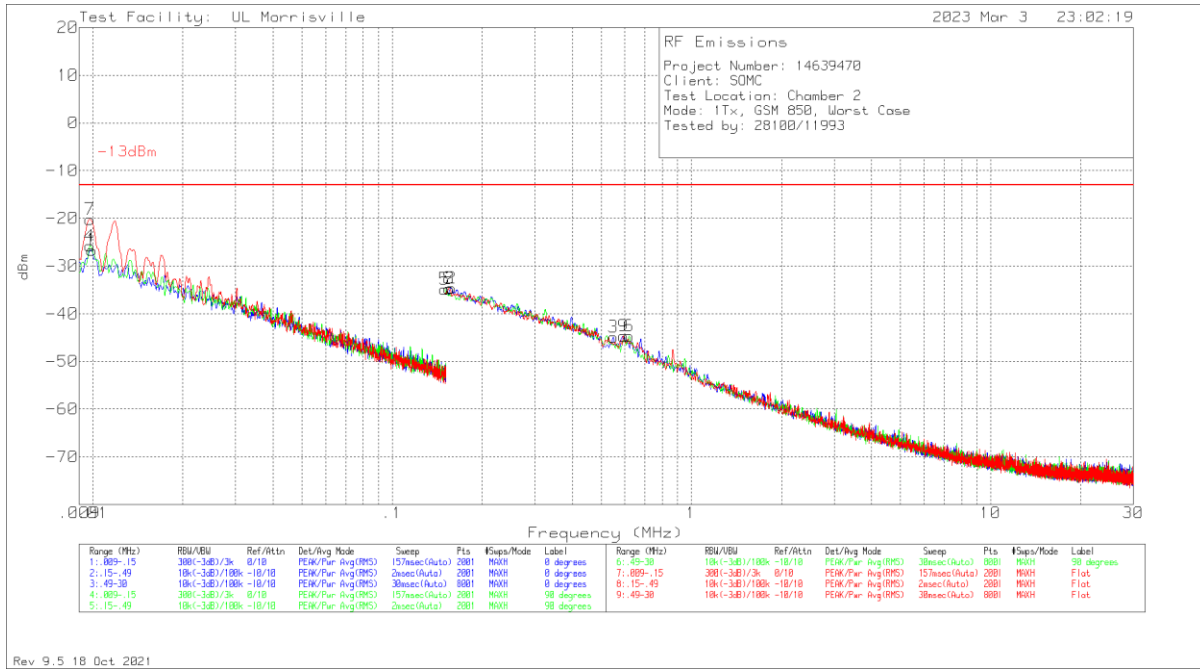
KDB 971168 D01 v02r02/D02 v01

RESULTS

11.2.1. Worst-Case Emissions for 2G

Test Engineer ID:	28100/11993 23854/11993	Test Date:	2023-03-03 2023-03-06	Sample Used:	QV7700HTFR QV77003JFR
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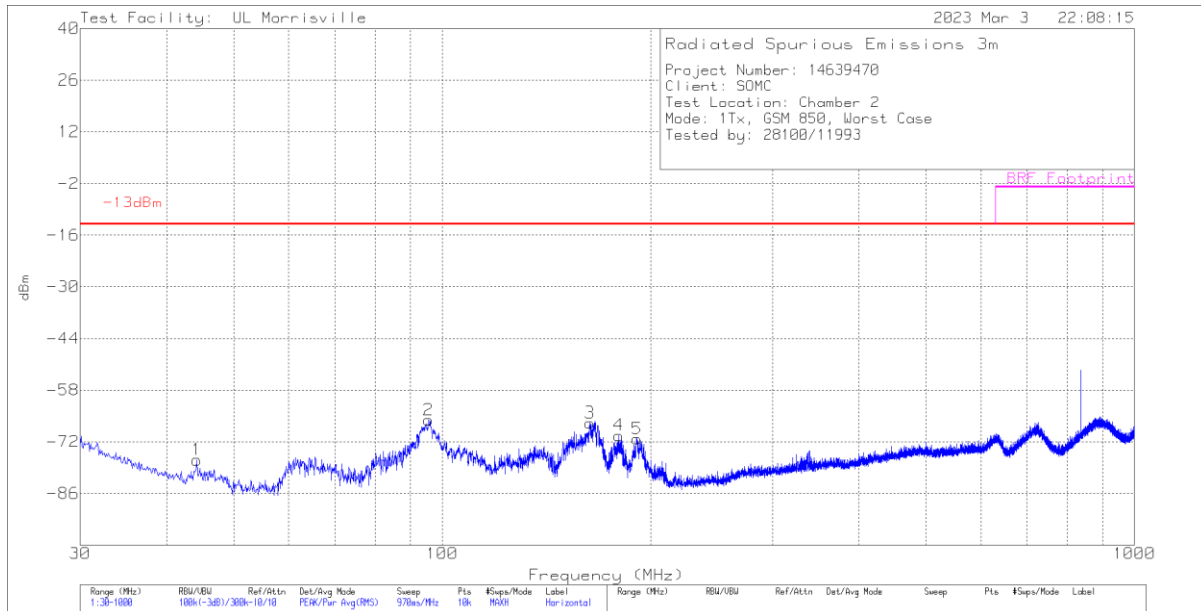
Spurious below 30MHz



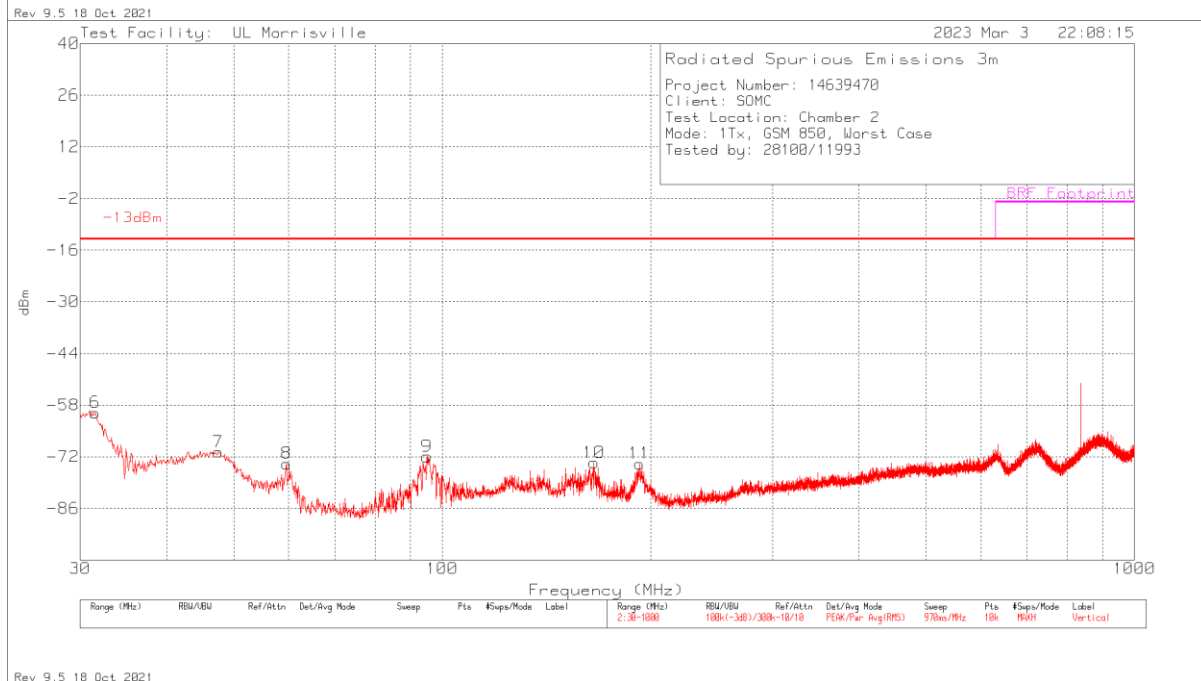
Marker	Frequency (MHz)	Meter Reading (dBm)	Det	135144 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Loop Angle
4	.00978	-57.21	Pk	19.5	.1	11.8	-25.81	-13	-12.81	0-360	90 degs
7	.00978	-51.63	Pk	19.5	.1	11.8	-20.23	-13	-7.23	0-360	Flat
1	.00992	-57.96	Pk	19.4	.1	11.8	-26.66	-13	-13.66	0-360	0 degs
5	.15	-58.97	Pk	12.2	.1	11.8	-34.87	-13	-21.87	0-360	90 degs
8	.15519	-58.81	Pk	12.2	.1	11.8	-34.71	-13	-21.71	0-360	Flat
2	.15765	-58.74	Pk	12.2	.1	11.8	-34.64	-13	-21.64	0-360	0 degs
3	.54902	-69	Pk	12.2	.1	11.8	-44.9	-13	-31.9	0-360	0 degs
9	.59329	-68.9	Pk	12.2	.2	11.8	-44.7	-13	-31.7	0-360	Flat
6	.61912	-68.9	Pk	12.2	.2	11.8	-44.7	-13	-31.7	0-360	90 degs

Pk - Peak detector

Spurious below 1GHz



Rev 9.5 18 Oct 2021

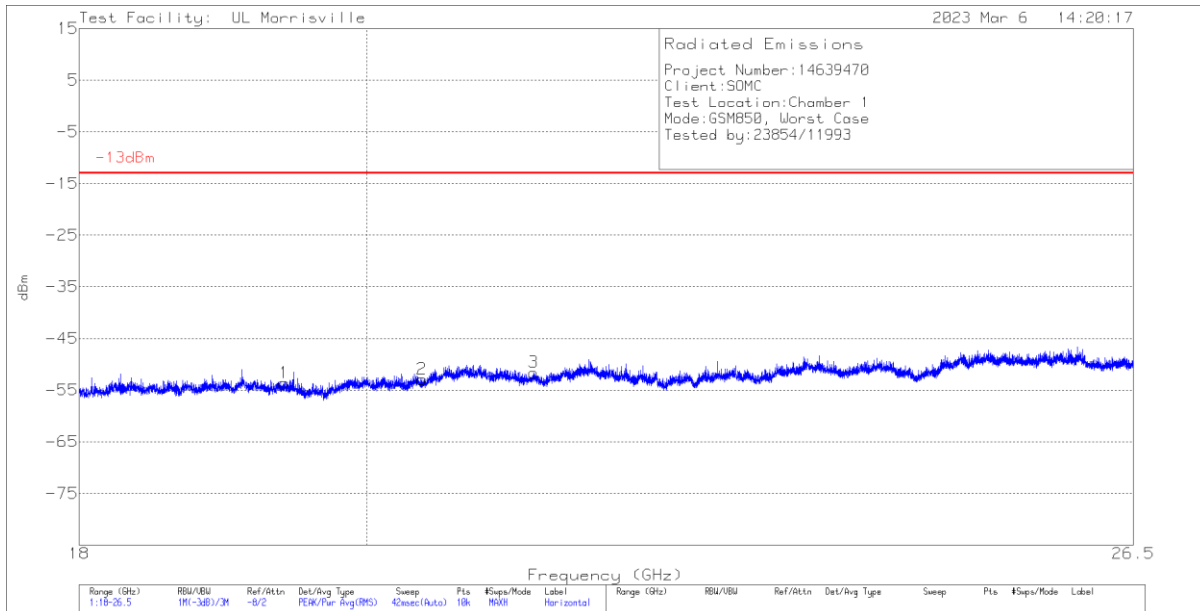


Rev 9.5 18 Oct 2021

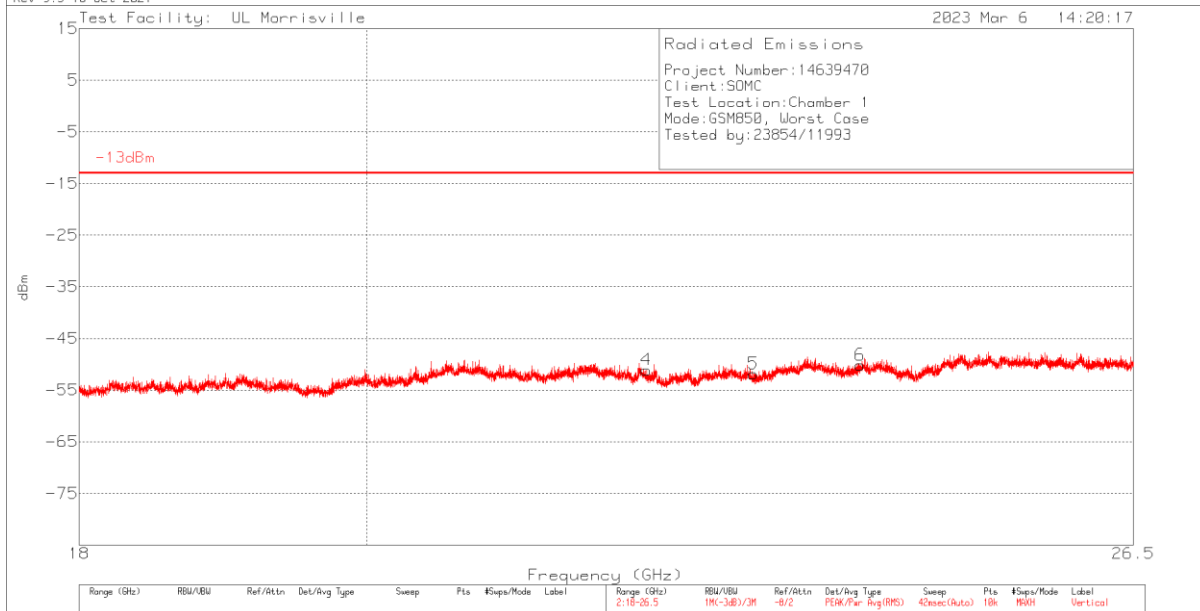
Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0074 (dB/m)	Gain/Loss (dB)	Filter (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	31.552	-64.63	Pk	26.2	-31.5	.2	9.7	-60.03	-13	-47.03	0-360	101	V
1	44.259	-72.41	Pk	16.8	-31.2	.2	9.7	-76.91	-13	-63.91	0-360	399	H
7	47.46	-64.4	Pk	15	-31.2	.2	9.7	-70.7	-13	-57.7	0-360	101	V
8	59.585	-66.55	Pk	13.8	-31.1	.3	9.7	-73.85	-13	-60.85	0-360	101	V
9	95.087	-66.75	Pk	15.2	-30.5	.4	9.7	-71.95	-13	-58.95	0-360	101	V
2	95.572	-60.9	Pk	15.3	-30.6	.4	9.7	-66.1	-13	-53.1	0-360	199	H
3	163.375	-65.63	Pk	18.3	-30	.7	9.7	-66.93	-13	-53.93	0-360	101	H
10	165.703	-72.39	Pk	18.2	-29.8	.7	9.7	-73.59	-13	-60.59	0-360	101	V
4	180.059	-68.38	Pk	17.6	-29.9	.7	9.7	-70.28	-13	-57.28	0-360	101	H
5	191.214	-70.02	Pk	17.9	-29.5	.7	9.7	-71.22	-13	-58.22	0-360	101	H
11	192.863	-72.76	Pk	18.1	-29.6	.7	9.7	-73.86	-13	-60.86	0-360	101	V

Pk - Peak detector

Spurious 18GHz to 26GHz



Rev 9.5 18 Oct 2021



Rev 9.5 18 Oct 2021

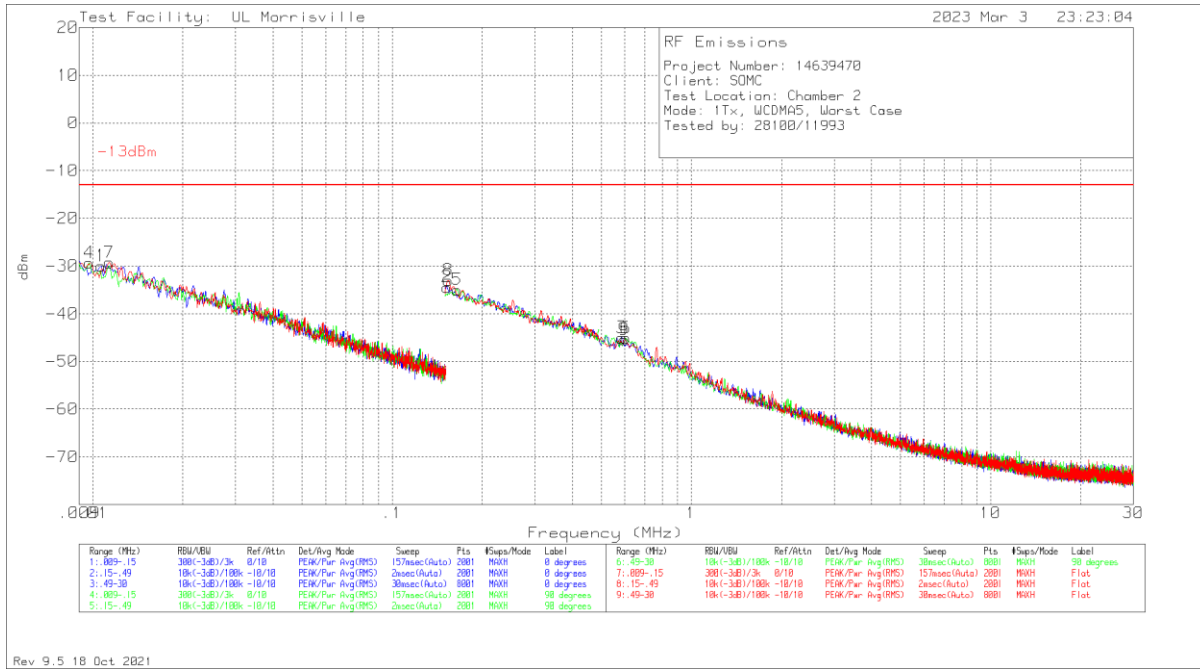
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	204704 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	19.40576	-60.09	Pk	33.5	-38.8	11.8	-53.59	-13	-40.59	0-360	101	H
2	20.41036	-59.61	Pk	34.2	-39.3	11.8	-52.91	-13	-39.91	0-360	101	H
3	21.26792	-57.88	Pk	33.9	-39.4	11.8	-51.58	-13	-38.58	0-360	101	H
4	22.16458	-57.7	Pk	34.5	-39.7	11.8	-51.1	-13	-38.1	0-360	250	V
5	23.05189	-58.84	Pk	34.6	-39.4	11.8	-51.84	-13	-38.84	0-360	300	V
6	23.97405	-58.37	Pk	35.1	-38.7	11.8	-50.17	-13	-37.17	0-360	199	V

Pk - Peak detector

11.2.2. Worst-Case Emissions for 3G

Test Engineer ID:	28100/11993 23854/11993	Test Date:	2023-03-03 2023-03-06	Sample Used:	QV7700HTFR QV77003JFR
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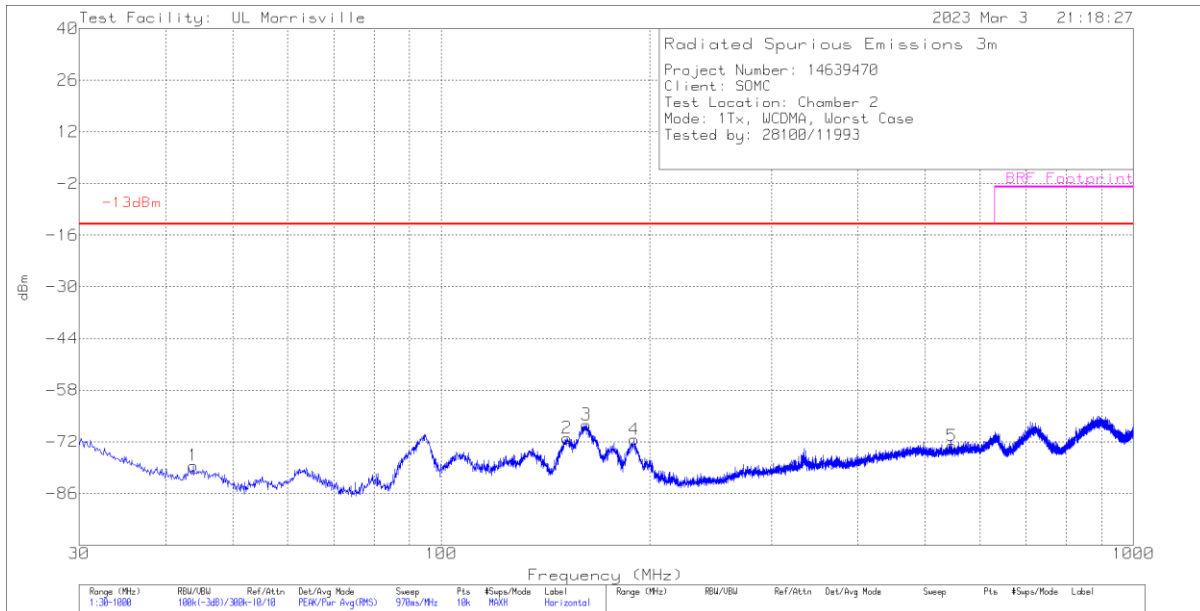
Spurious below 30MHz



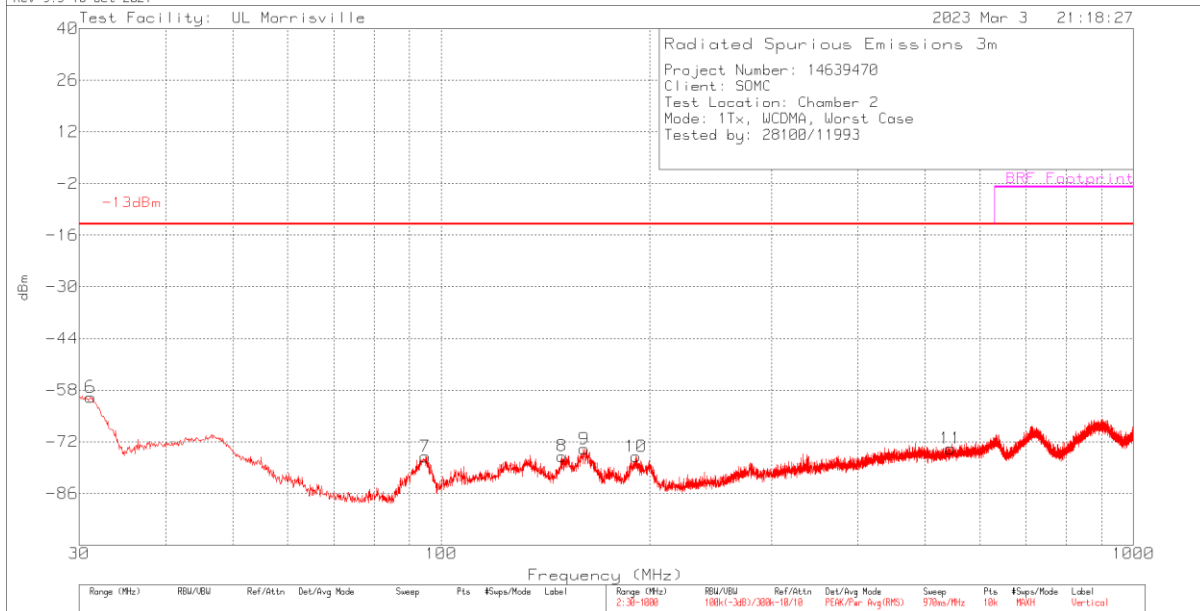
Marker	Frequency (MHz)	Meter Reading (dBm)	Det	135144 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Loop Angle
4	.00971	-60.74	Pk	19.5	.1	11.8	-29.34	-13	-16.34	0-360	401	90 degs
1	.01063	-60.86	Pk	19	.1	11.8	-29.96	-13	-16.96	0-360	401	0 degs
7	.01134	-59.86	Pk	18.7	.1	11.8	-29.26	-13	-16.26	0-360	401	Flat
2	.15238	-58.53	Pk	12.2	.1	11.8	-34.43	-13	-21.43	0-360	401	0 degs
8	.15383	-57.08	Pk	12.2	.1	11.8	-32.98	-13	-19.98	0-360	401	Flat
5	.16479	-59.05	Pk	12.2	.1	11.8	-34.95	-13	-21.95	0-360	401	90 degs
3	.58591	-69.23	Pk	12.2	.2	11.8	-45.03	-13	-32.03	0-360	401	0 degs
9	.59698	-69.62	Pk	12.2	.2	11.8	-45.42	-13	-32.42	0-360	401	Flat
6	.60436	-69.3	Pk	12.2	.2	11.8	-45.1	-13	-32.1	0-360	401	90 degs

Pk - Peak detector

Spurious below 1GHz



Rev 9.5 18 Oct 2021

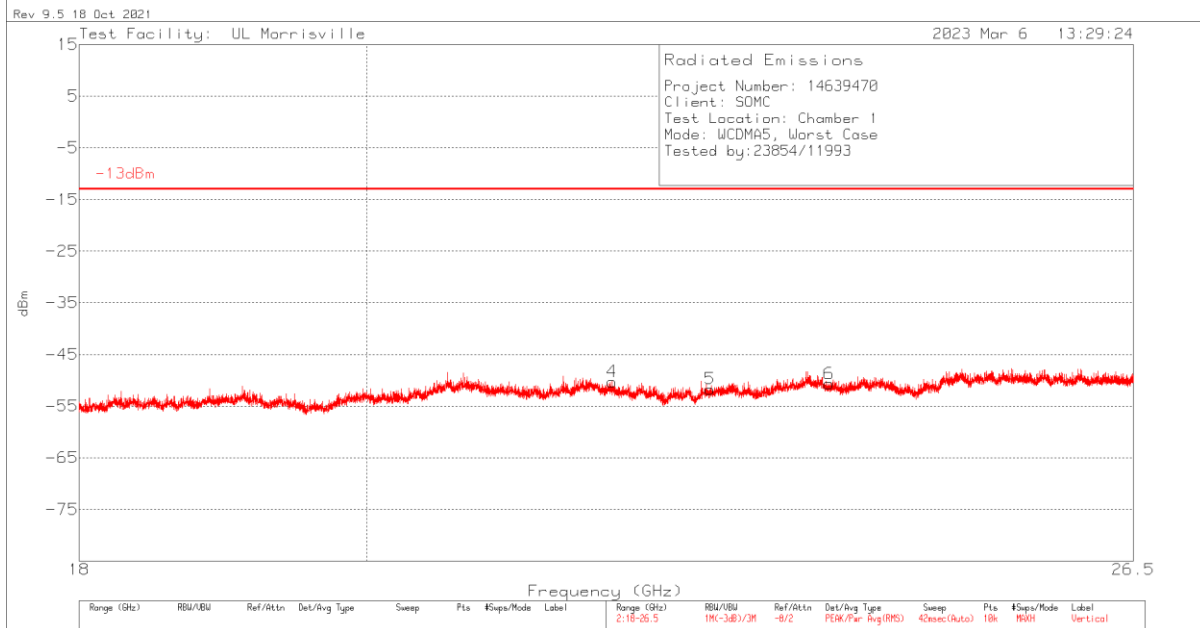
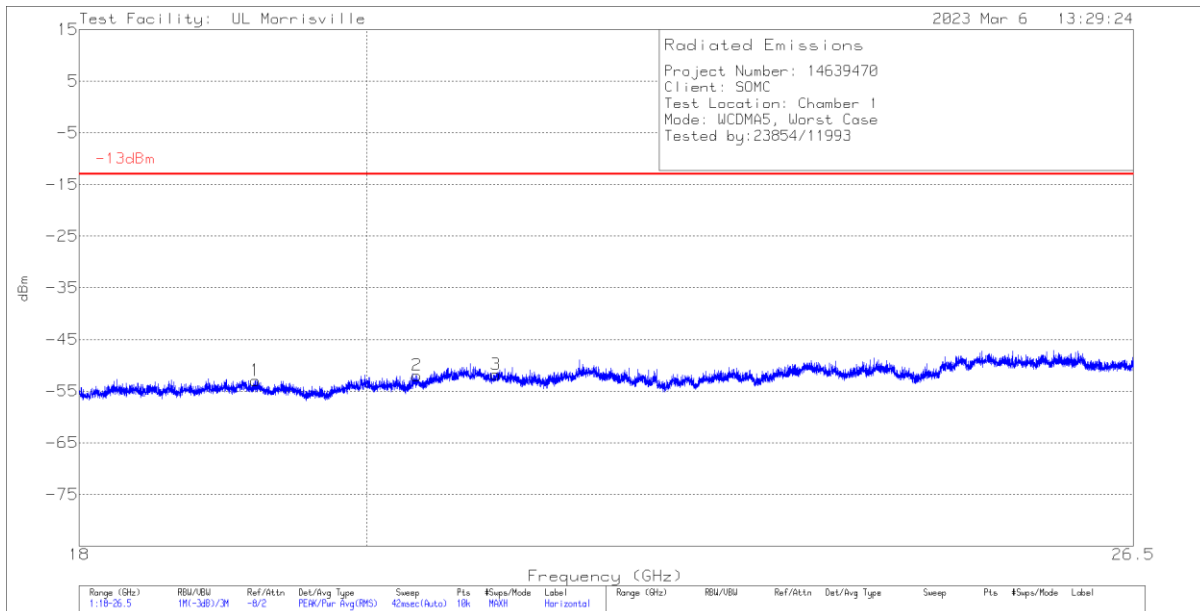


Rev 9.5 18 Oct 2021

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0074 (dB/m)	Gain/Loss (dB)	Filter (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	31.164	-65.02	Pk	26.5	-31.3	.2	9.7	-59.92	-13	-46.92	0-360	101	V
1	43.871	-74.06	Pk	17.1	-31.4	.2	9.7	-78.46	-13	-65.46	0-360	399	H
7	94.893	-70.74	Pk	15.1	-30.5	.4	9.7	-76.04	-13	-63.04	0-360	101	V
8	149.504	-74.89	Pk	18.6	-29.9	.6	9.7	-75.89	-13	-62.89	0-360	101	V
2	151.929	-69.79	Pk	18.5	-30	.6	9.7	-70.99	-13	-57.99	0-360	100	H
9	160.95	-72.64	Pk	18.4	-30	.6	9.7	-73.94	-13	-60.94	0-360	101	V
3	162.114	-66.29	Pk	18.4	-29.8	.6	9.7	-67.39	-13	-54.39	0-360	100	H
4	190.147	-70.07	Pk	17.8	-29.5	.7	9.7	-71.37	-13	-58.37	0-360	100	H
10	191.214	-74.82	Pk	17.9	-29.5	.7	9.7	-76.02	-13	-63.02	0-360	101	V
11	544.391	-81.02	Pk	24	-27.6	1.1	9.7	-73.82	-13	-60.82	0-360	101	V
5	546.331	-80.2	Pk	24	-27.7	1.1	9.7	-73.1	-13	-60.1	0-360	199	H

Pk - Peak detector

Spurious 18GHz to 26GHz



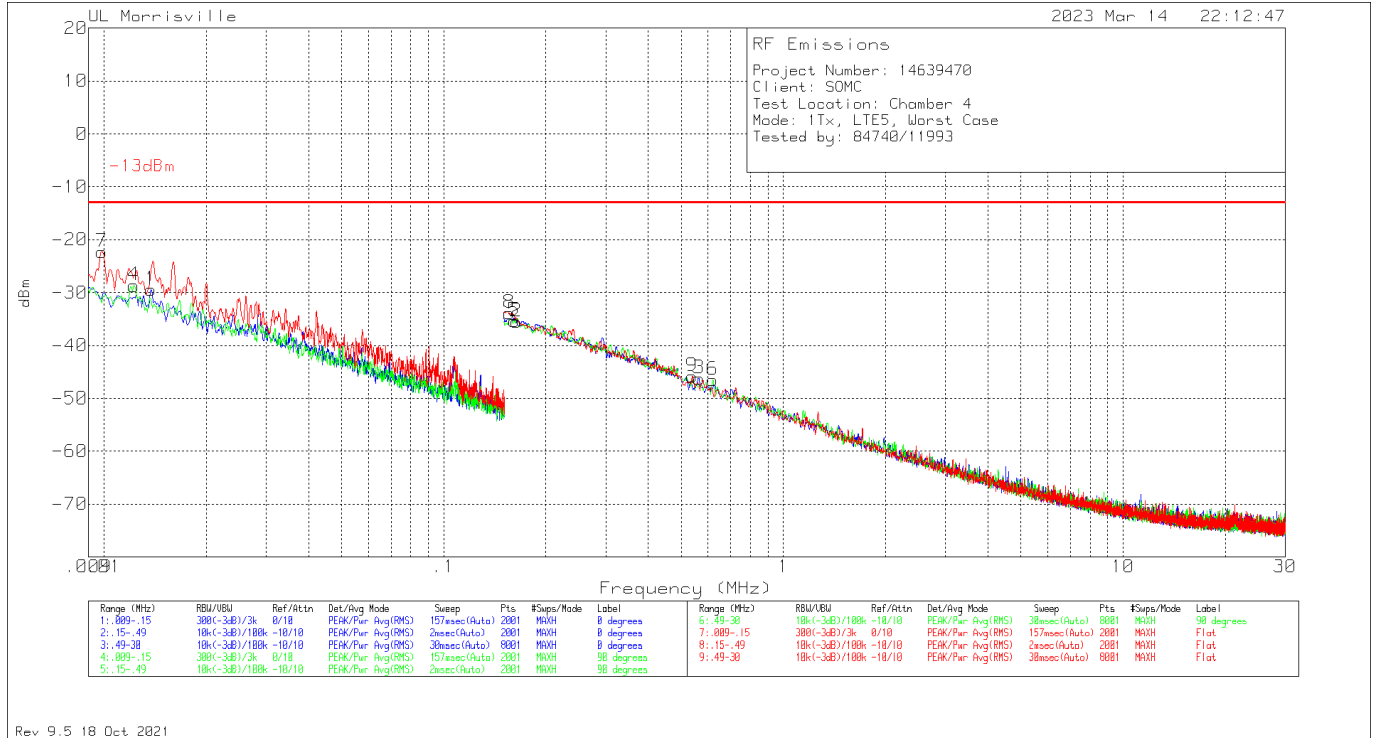
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	204704 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	19.20178	-59.44	Pk	33.7	-39	11.8	-52.94	-13	-39.94	0-360	101	H
2	20.37296	-58.65	Pk	34.1	-39.2	11.8	-51.95	-13	-38.95	0-360	150	H
3	20.97555	-58.39	Pk	34	-39.2	11.8	-51.79	-13	-38.79	0-360	101	H
4	21.88581	-57.38	Pk	34.6	-39.3	11.8	-50.28	-13	-37.28	0-360	200	V
5	22.68728	-58.6	Pk	34.3	-39.2	11.8	-51.7	-13	-38.7	0-360	200	V
6	23.70123	-58.47	Pk	35.2	-39.2	11.8	-50.67	-13	-37.67	0-360	101	V

Pk - Peak detector

11.2.3. Worst-Case Emissions for 4G

Test Engineer ID:	84740/11993	Test Date:	2023-03-14	Sample Used:	QV7700HTFR
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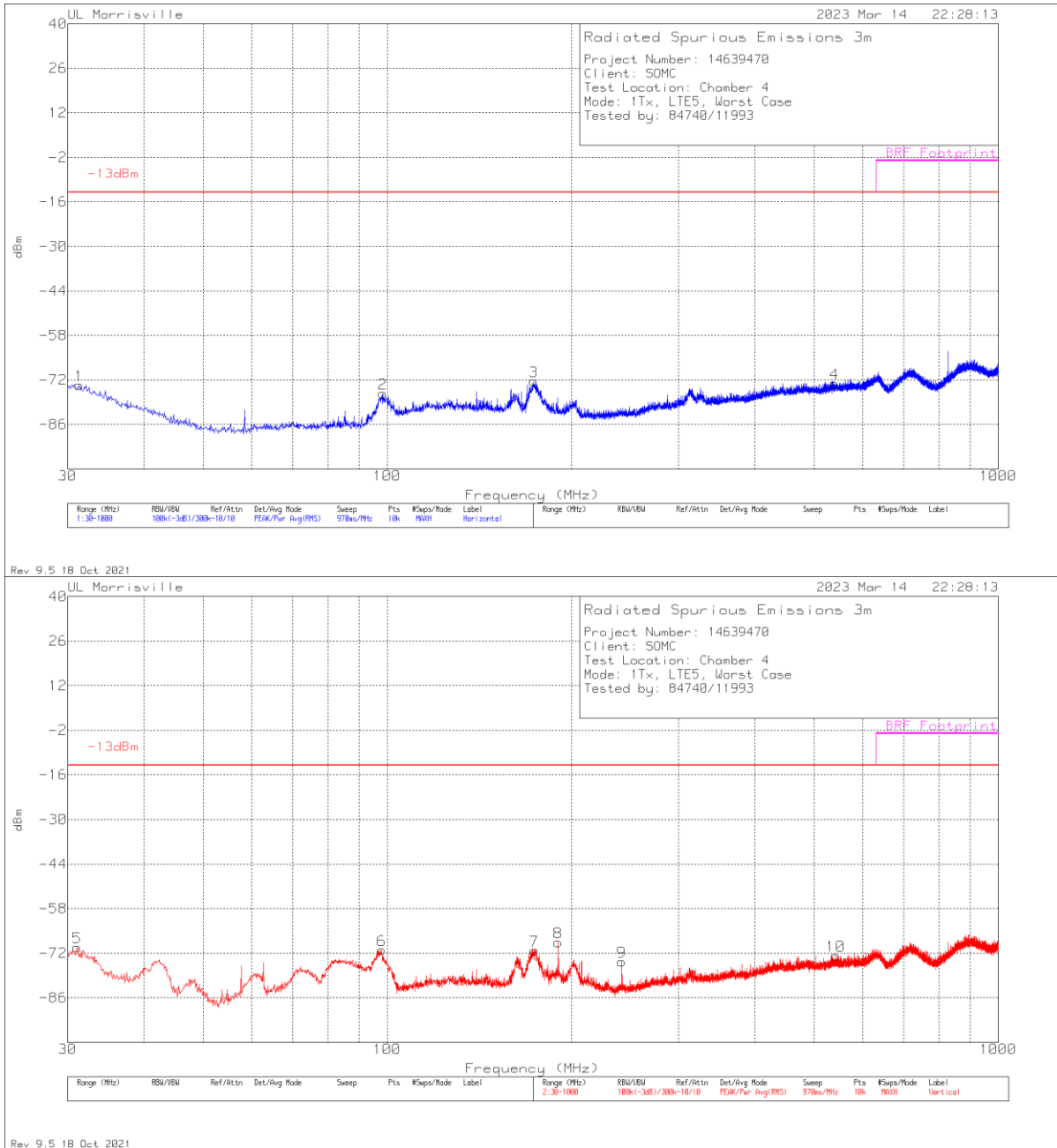
Spurious below 30MHz



Marker	Frequency (MHz)	Meter Reading (dBm)	Det	135144 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Loop Angle
1	.01376	-58.82	Pk	17.6	0	11.8	-29.42	-13	-16.42	0-360	0 degs
2	.16377	-59.59	Pk	12.2	.1	11.8	-35.49	-13	-22.49	0-360	0 degs
3	.56378	-70.37	Pk	12.2	.1	11.8	-46.27	-13	-33.27	0-360	0 degs
4	.01227	-58.8	Pk	18.3	0	11.8	-28.7	-13	-15.7	0-360	90 degs
5	.16114	-59.5	Pk	12.2	.1	11.8	-35.4	-13	-22.4	0-360	90 degs
6	.61912	-70.61	Pk	12.2	.1	11.8	-46.51	-13	-33.51	0-360	90 degs
7	.00985	-53.51	Pk	19.4	0	11.8	-22.31	-13	-9.31	0-360	Flat
8	.1557	-57.97	Pk	12.2	.1	11.8	-33.87	-13	-20.87	0-360	Flat
9	.53796	-69.97	Pk	12.2	.1	11.8	-45.87	-13	-32.87	0-360	Flat

Pk - Peak detector

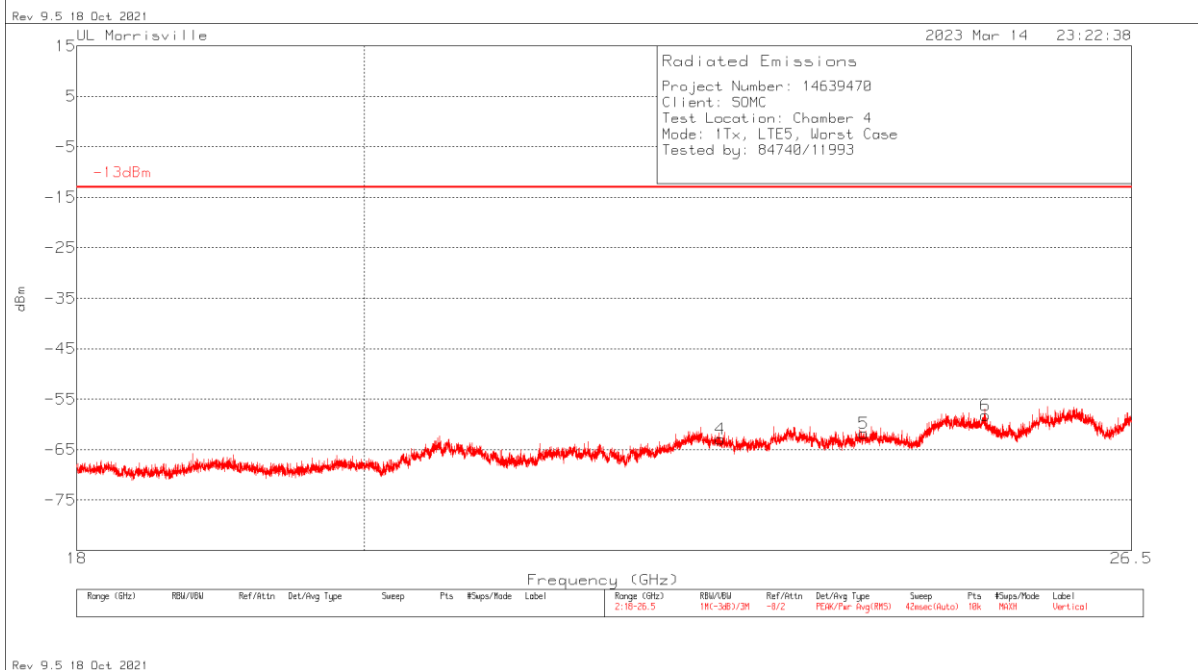
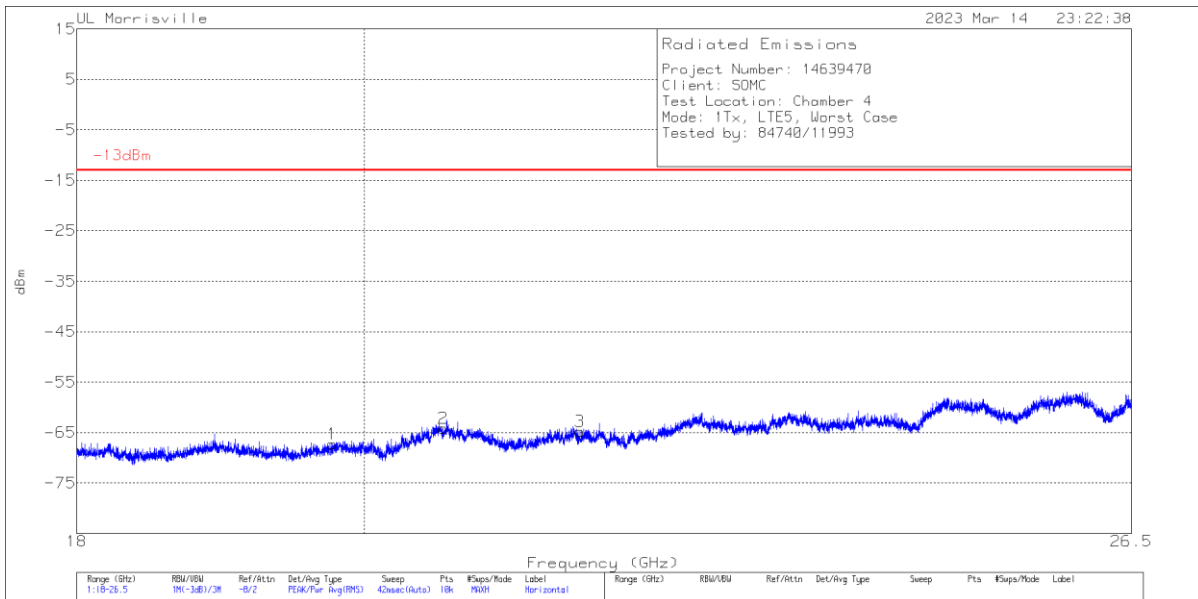
Spurious below 1GHz



Marker	Frequency (MHz)	Meter Reading (dBm)	Det	90629 (dB/m)	Gain/Loss (dB)	Filter (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	31.067	-74.7	Pk	26.4	-31.8	.2	9.7	-70.2	-13	-57.2	0-360	100	V
1	31.358	-77.85	Pk	26.1	-31.8	.2	9.7	-73.65	-13	-60.65	0-360	200	H
6	97.997	-67.52	Pk	17.1	-30.7	.4	9.7	-71.02	-13	-58.02	0-360	100	V
2	98.385	-72.73	Pk	17.1	-30.7	.4	9.7	-76.23	-13	-63.23	0-360	200	H
3	173.851	-70.45	Pk	17.7	-30	.7	9.7	-72.35	-13	-59.35	0-360	100	H
7	174.142	-69.16	Pk	17.7	-30.1	.7	9.7	-71.16	-13	-58.16	0-360	100	V
8	190.535	-66.51	Pk	17.5	-30	.7	9.7	-68.61	-13	-55.61	0-360	100	V
9	242.139	-73.12	Pk	17.7	-29.6	.7	9.7	-74.62	-13	-61.62	0-360	100	V
4	539.347	-80.29	Pk	24.2	-27.9	1.1	9.7	-73.19	-13	-60.19	0-360	100	H
10	541.772	-80.09	Pk	24.3	-27.8	1.1	9.7	-72.79	-13	-59.79	0-360	100	V

Pk - Peak detector

Spurious 18GHz to 26GHz



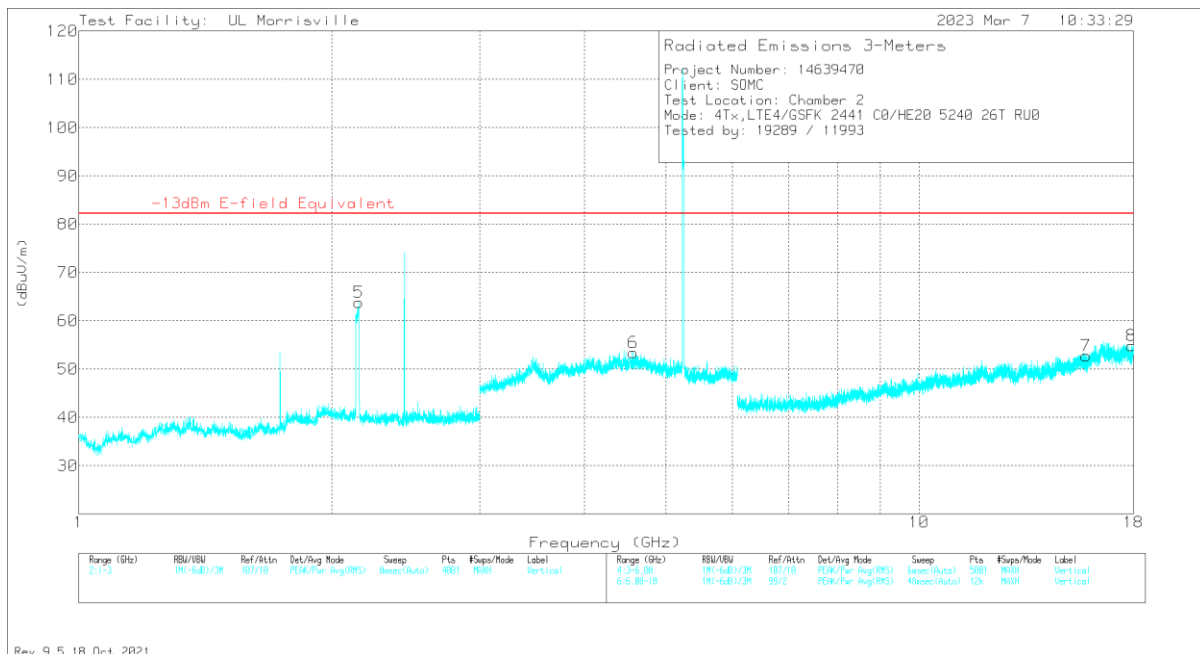
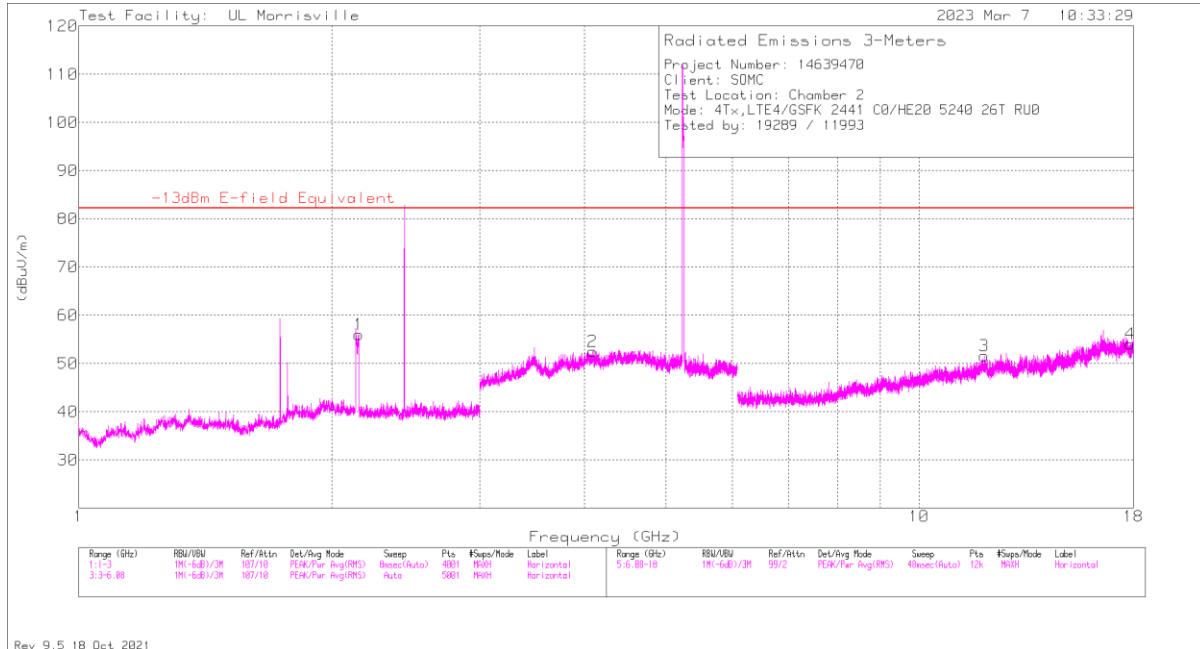
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	204704 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	19.76952	-73.23	Pk	33.4	-39.2	11.8	-67.23	-13	-54.23	0-360	300	H
2	20.58799	-70.05	Pk	34.1	-40	11.8	-64.15	-13	-51.15	0-360	200	H
3	21.64699	-71.66	Pk	34.2	-39.1	11.8	-64.76	-13	-51.76	0-360	300	H
4	22.79267	-71.26	Pk	34.4	-37.9	11.8	-62.96	-13	-49.96	0-360	250	V
5	24.02165	-71.83	Pk	35.1	-36.9	11.8	-61.83	-13	-48.83	0-360	100	V
6	25.11549	-68.67	Pk	35.8	-37.2	11.8	-58.27	-13	-45.27	0-360	100	V

Pk - Peak detector

11.1. Simultaneous Transmission

Test Engineer ID:	19289/11993 11993	Test Date:	2023-03-07	Sample Used:	QV77003JFR
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11.1.1. Scan 1



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Gain/Loss (dB)	Filter (dB)	Corrected Reading (dBuV/m)	-13dBm E-field Equivalent (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	** 2.153 (DL)	46.74	Pk	31.4	-23.2	1.1	56.04	-	-	0-360	101	H
5	** 2.1535 (DL)	54.55	Pk	31.4	-23.2	1.1	63.85	-	-	0-360	200	V
3	*** 11.9655	36.76	Pk	38.7	-23.9	0	51.56	82.2	-30.64	0-360	101	H
7	*** 15.8097	34.54	Pk	40.4	-22.2	0	52.74	82.2	-29.46	0-360	101	V
4	*** 17.84007	34.92	Pk	41.2	-22	0	54.12	82.2	-28.08	0-360	199	H
8	*** 17.91755	35.48	Pk	41.3	-21.9	0	54.88	82.2	-27.32	0-360	101	V
2	*** 4.09032	39.73	Pk	33.4	-20.6	0	52.53	82.2	-29.67	0-360	200	H
6	*** 4.57388	40.37	Pk	34	-20.9	0	53.47	82.2	-28.73	0-360	101	V

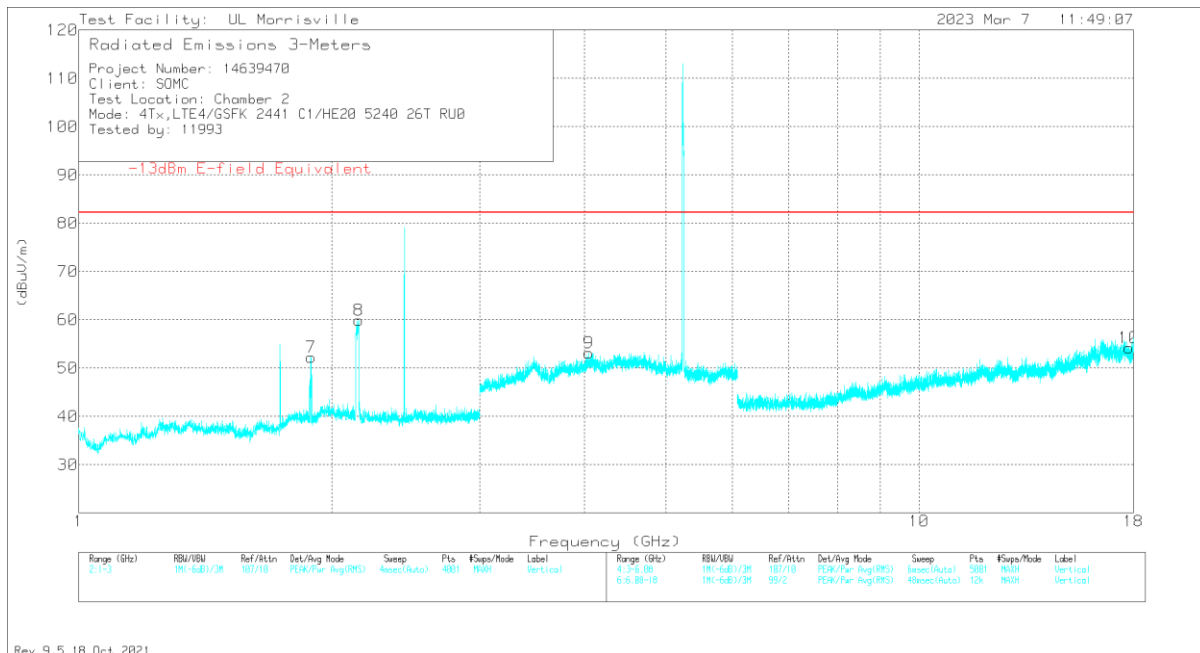
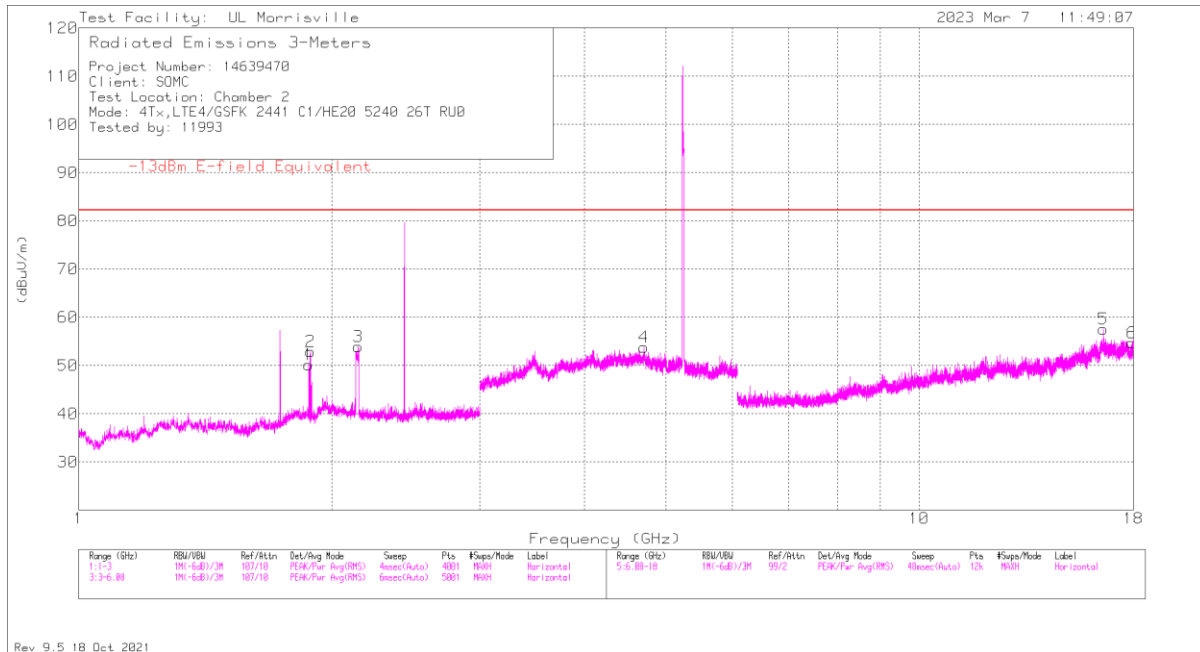
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

DL – Downlink from Callbox

11.1.2. Scan 2



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Gain/Loss (dB)	Filter (dB)	Corrected Reading (dBuV/m)	-13dBm E-field Equivalent (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	** 1.879	39.98	Pk	31.4	-22.4	1.2	50.18	82.2	-32.02	0-360	200	H
2	** 1.886	42.97	Pk	31.4	-22.7	1.2	52.87	82.2	-29.33	0-360	101	H
3	** 2.1495 (DL)	44.62	Pk	31.5	-23.3	1.1	53.92	82.2	-28.28	0-360	101	H
7	** 1.8895	42.24	Pk	31.4	-22.6	1.2	52.24	82.2	-29.96	0-360	200	V
8	** 2.15325 (DL)	50.6	Pk	31.4	-23.2	1.1	59.9	82.2	-22.3	0-360	101	V
10	** * 17.79438	35.45	Pk	41.2	-22.4	0	54.25	82.2	-27.95	0-360	200	V
6	** * 17.93245	35.36	Pk	41.3	-21.9	0	54.76	82.2	-27.44	0-360	200	H
9	** * 4.04966	40.51	Pk	33.5	-20.8	0	53.21	82.2	-28.99	0-360	199	V
4	** * 4.70447	40.57	Pk	34	-20.7	0	53.87	82.2	-28.33	0-360	101	H
5	16.58549	37.52	Pk	41.6	-21.5	0	57.62	-	-	0-360	200	H

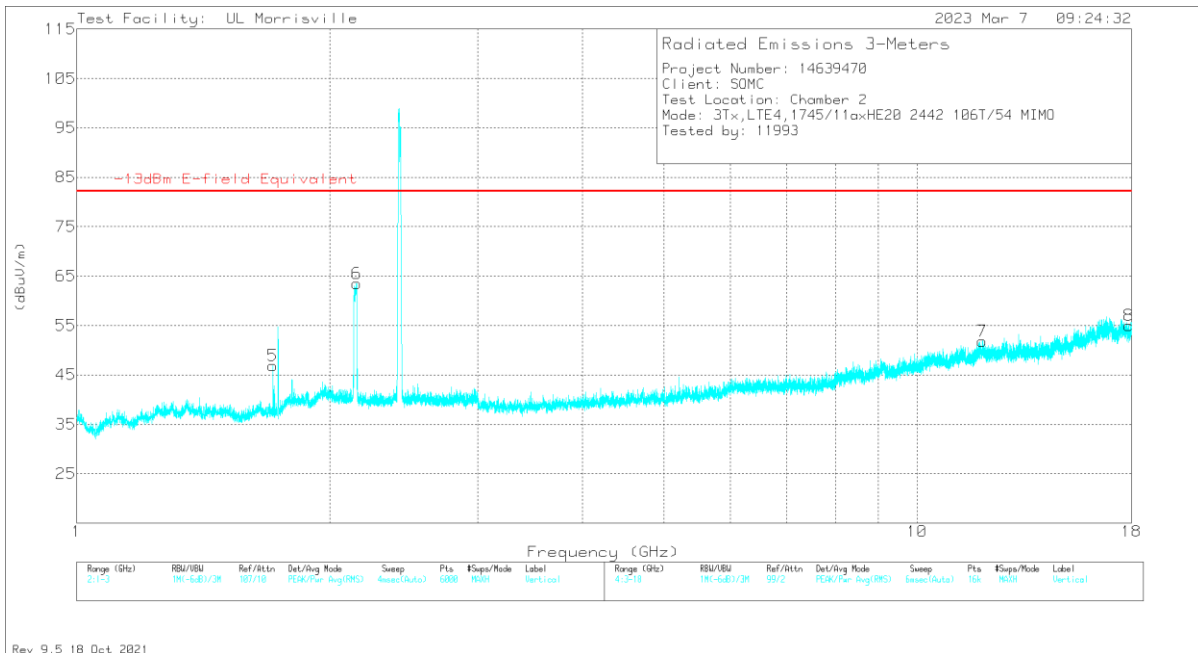
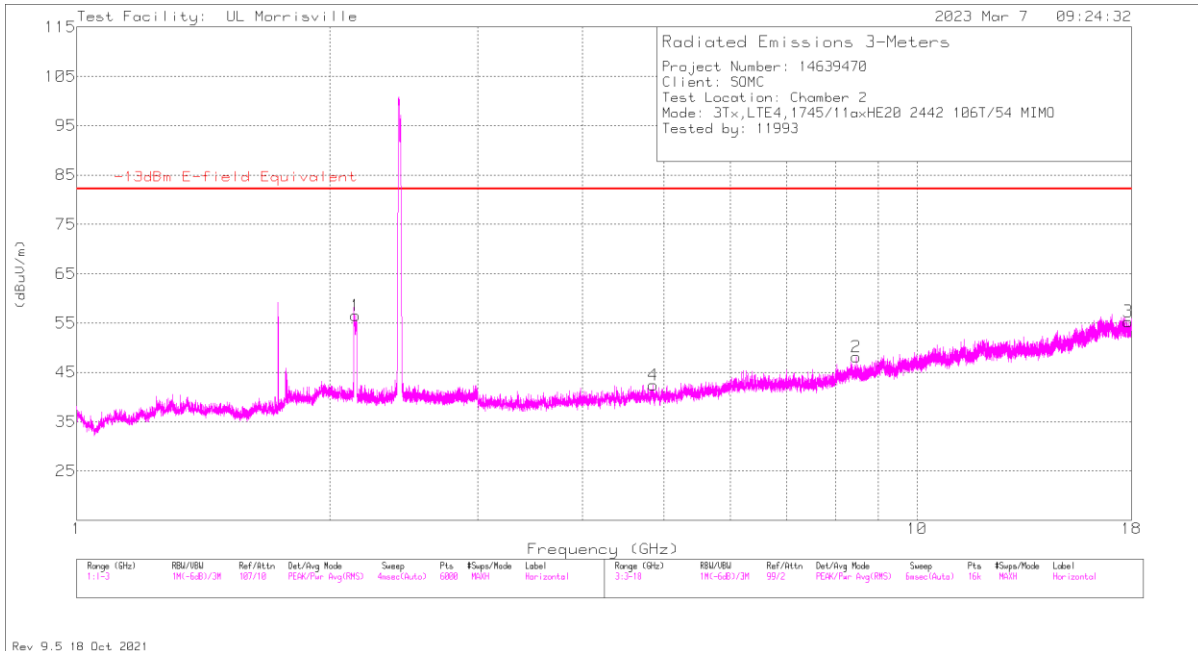
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

DL - Downlink

11.1.3. Scan 3



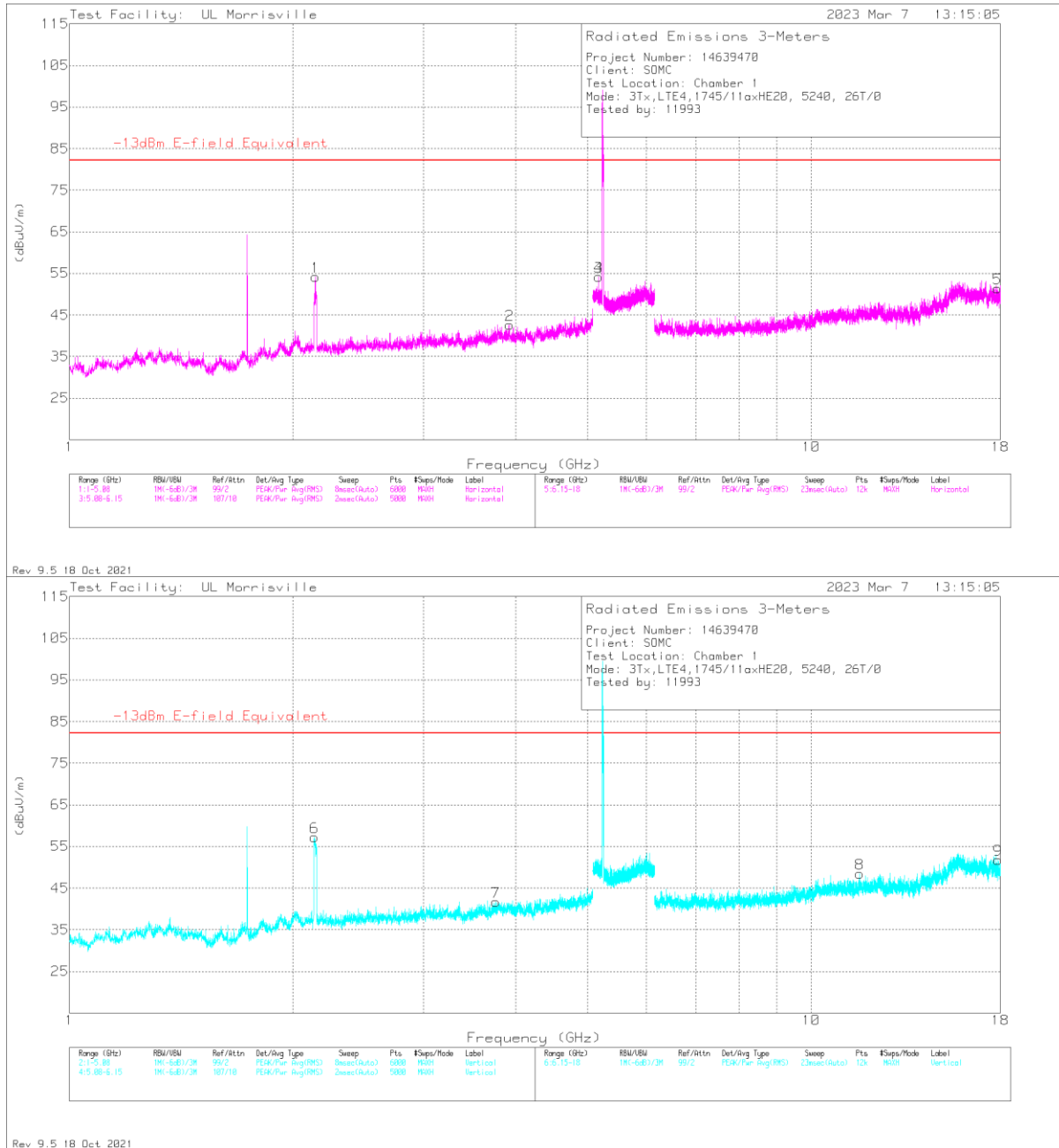
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Gain/Loss (dB)	Filter (dB)	Corrected Reading (dBuV/m)	-13dBm E-field Equivalent (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	** 2.14819 (DL)	47.16	Pk	31.5	-23.3	1.1	56.46	-	-	0-360	101	H
5	** 1.71145	38.83	Pk	29.2	-22.4	1.2	46.83	82.2	-35.37	0-360	199	V
6	** 2.15286 (DL)	54.21	Pk	31.4	-23.2	1.1	63.51	-	-	0-360	101	V
7	*** 11.95406	36.82	Pk	38.7	-23.7	0	51.82	82.2	-30.38	0-360	200	V
3	*** 17.83031	34.41	Pk	41.2	-20.3	0	55.31	82.2	-26.89	0-360	200	H
8	*** 17.88188	34.81	Pk	41.2	-21	0	55.01	82.2	-27.19	0-360	200	V
4	*** 4.85813	38.88	Pk	34.1	-30.6	0	42.38	82.2	-39.82	0-360	200	H
2	*** 8.46844	38.85	Pk	35.8	-26.5	0	48.15	82.2	-34.05	0-360	101	H

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

Pk - Peak detector

DL- Downlink

11.1.4. Scan 4



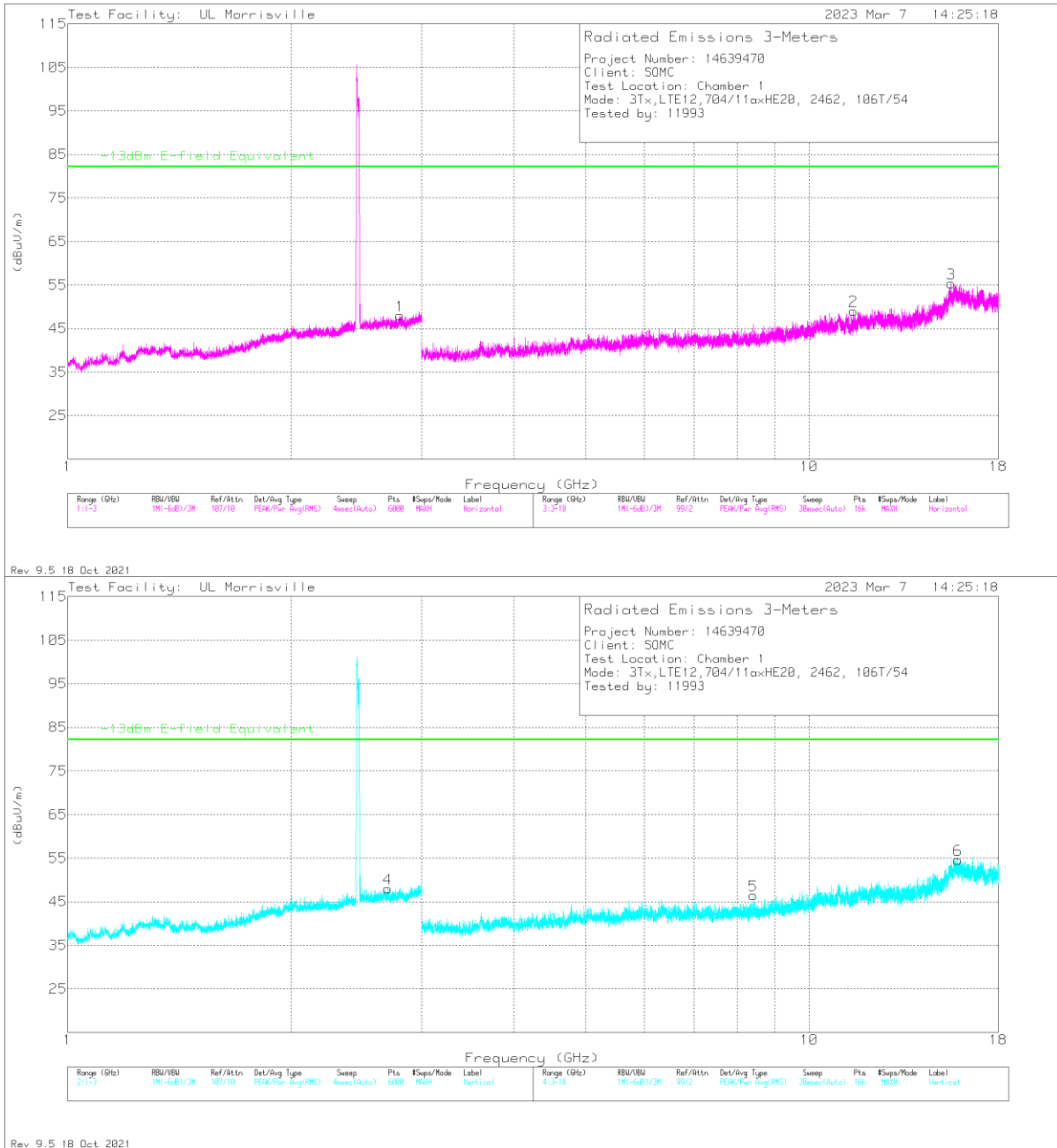
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Gain/Loss (dB)	Filter (dB)	Corrected Reading (dBuV/m)	-13dBm E-field Equivalent (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	** 2.14531 (DL)	56.52	Pk	31.4	-34.9	1.2	54.22	-	-	0-360	200	H
2	*** 3.92041	41.36	Pk	33.4	-32.6	.5	42.66	82.2	-39.54	0-360	101	H
6	** 2.13919 (DL)	59.56	Pk	31.4	-34.9	1.2	57.26	-	-	0-360	200	V
7	*** 3.75718	40.62	Pk	33.4	-33	.7	41.72	82.2	-40.48	0-360	200	V
8	*** 11.62668	35.68	Pk	38.3	-25.5	0	48.48	82.2	-33.72	0-360	101	V
5	*** 17.85286	34.68	Pk	41.2	-24.5	0	51.38	82.2	-30.82	0-360	200	H
9	*** 17.86175	35.92	Pk	41.2	-25.3	0	51.82	82.2	-30.38	0-360	101	V
3	** 5.17065	42.02	Pk	34.3	-22.1	0	54.22	82.2	-27.98	0-360	300	H
4	** 5.17065	42.02	Pk	34.3	-22.1	0	54.22	82.2	-27.98	0-360	300	H

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

Pk - Peak detector

DL - Downlink

11.1.5. Scan 5



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Gain/Loss (dB)	Filter (dB)	Corrected Reading (dBuV/m)	-13dBm E-field Equivalent (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.80697	37.87	Pk	32.6	-23.1	.7	48.07	82.2	-34.13	0-360	101	H
4	*** 2.70262	38.47	Pk	32.5	-23.6	.6	47.97	82.2	-34.23	0-360	200	V
2	*** 11.48344	36.69	Pk	38.1	-26.3	.6	49.09	82.2	-33.11	0-360	200	H
3	*** 15.54469	35.46	Pk	40.1	-21.2	1	55.36	82.2	-26.84	0-360	101	H
5	*** 8.40375	39.31	Pk	35.8	-29.1	.5	46.51	82.2	-35.69	0-360	101	V
6	*** 15.86906	36.27	Pk	40.6	-23.4	1.1	54.57	82.2	-27.63	0-360	101	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 see R14639470-EP5 for Setup Photos and Setup Diagrams.

END OF REPORT