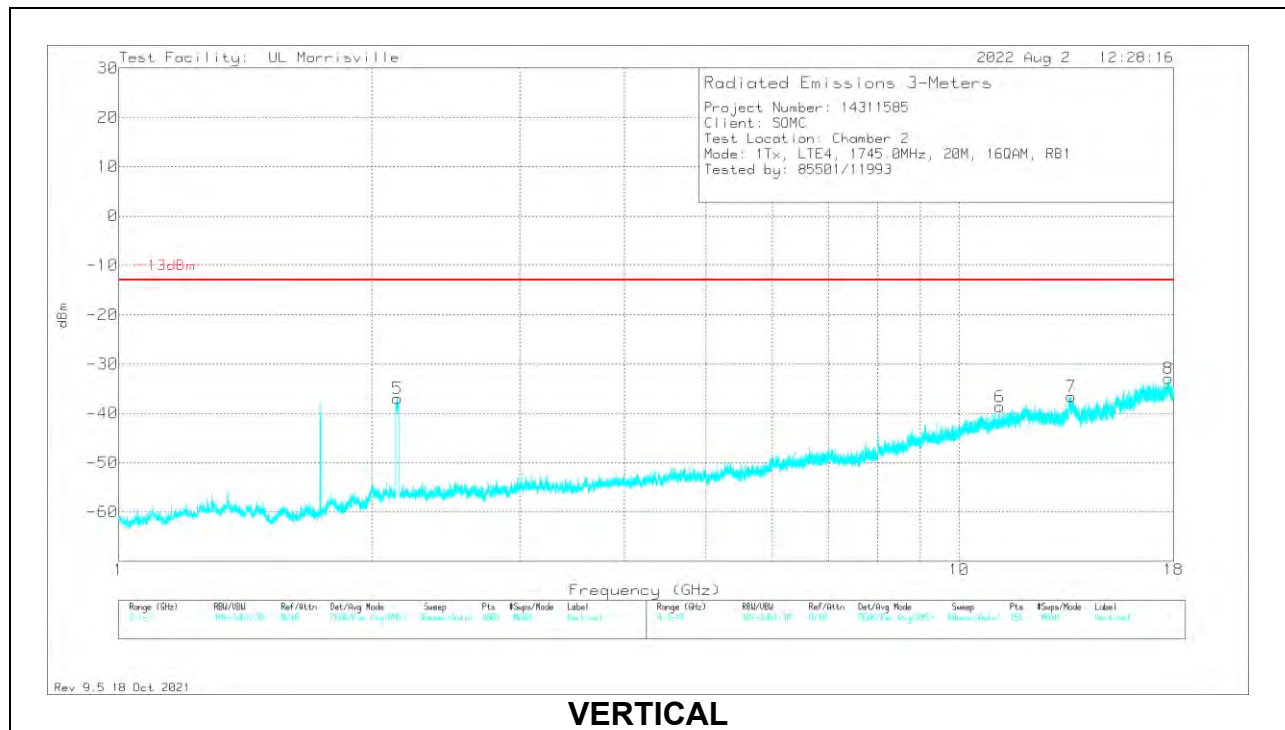
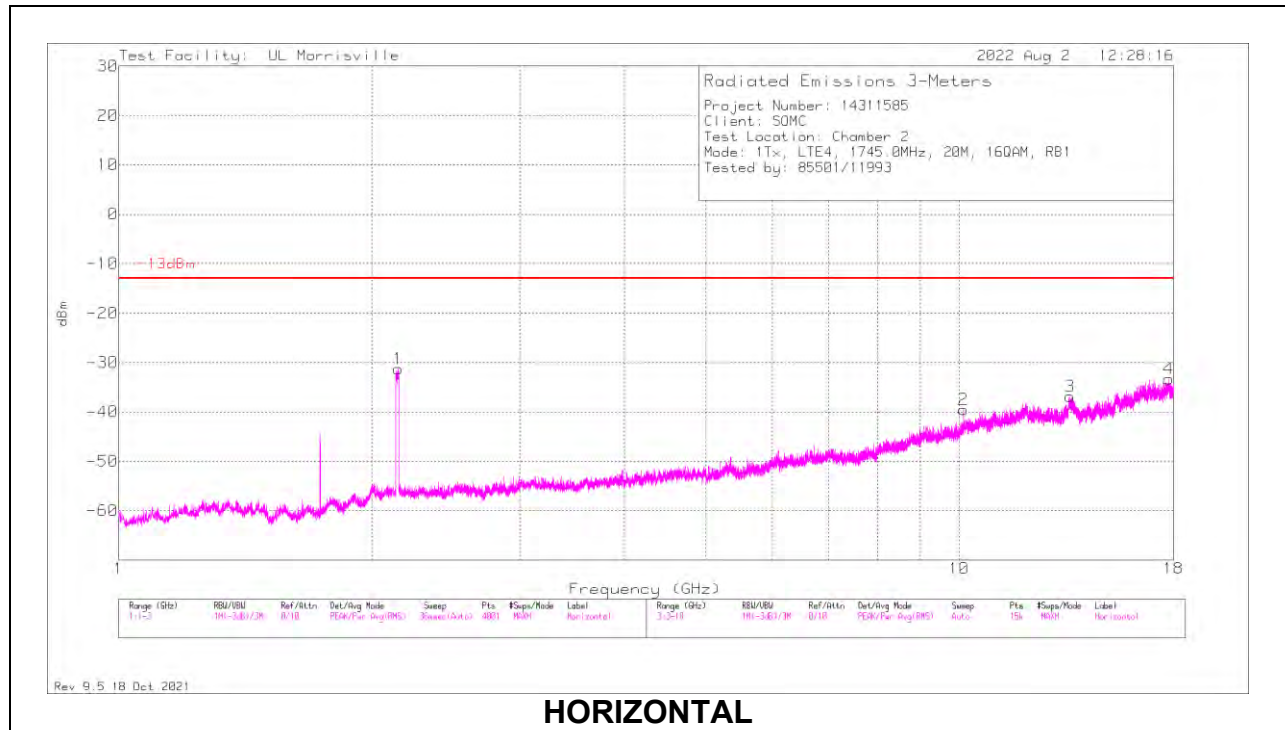


HIGH CHANNEL RESULTS



RADIATED EMISSIONS

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
5	2.1485 (DL)	-46.84	Pk	31.5	-34.4	11.8	1	-	-	-	0-360	300	V
1	2.149 (DL)	-41.18	Pk	31.5	-34.4	11.8	1	-	-	-	0-360	300	H
2	10.13	-64.11	Pk	37.3	-24.5	11.8	0	-39.51	-13	-26.51	0-360	101	H
6	11.179	-64.92	Pk	37.8	-23.3	11.8	0	-38.62	-13	-25.62	0-360	200	V
3	13.55	-63.47	Pk	38.8	-24	11.8	0	-36.87	-13	-23.87	0-360	101	H
7	13.615	-62.63	Pk	38.7	-24.5	11.8	0	-36.63	-13	-23.63	0-360	101	V
8	17.758	-65.36	Pk	41.2	-20.6	11.8	0	-32.96	-13	-19.96	0-360	200	V
4	17.769	-65.71	Pk	41.2	-20.6	11.8	0	-33.31	-13	-20.31	0-360	300	H

Pk - Peak detector

DL - Down Link

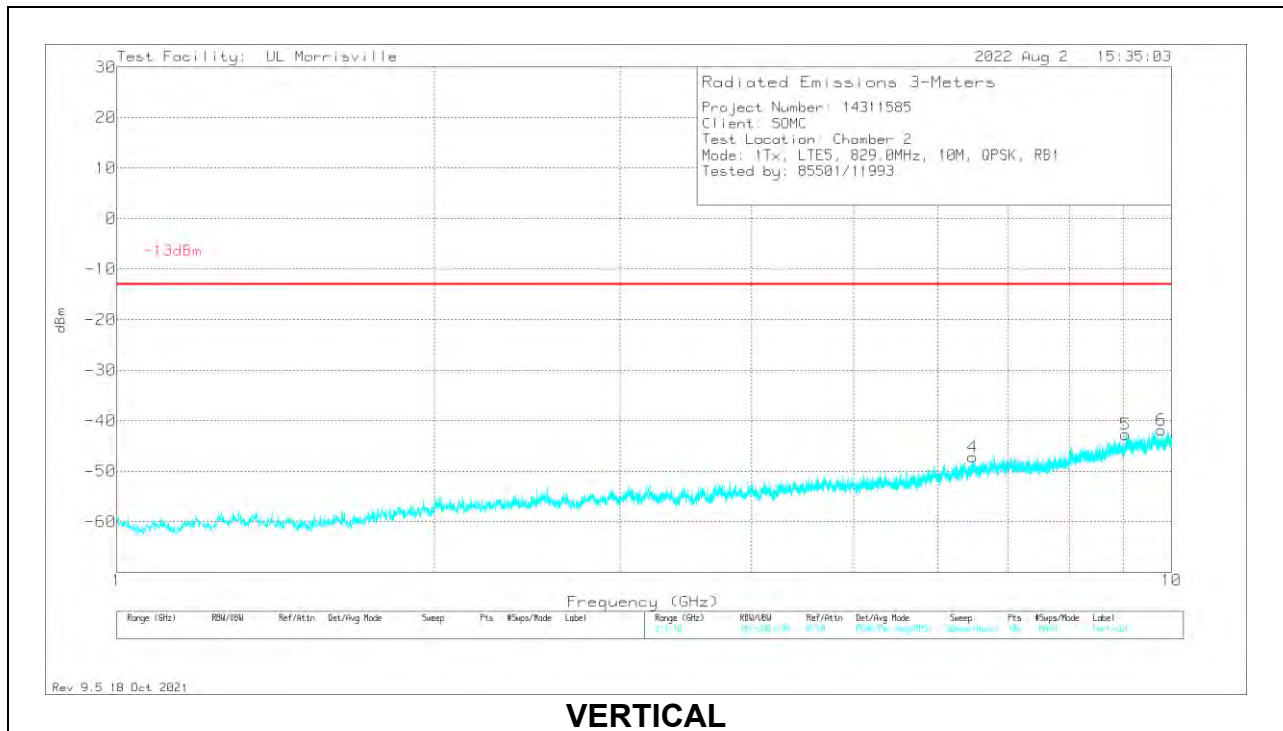
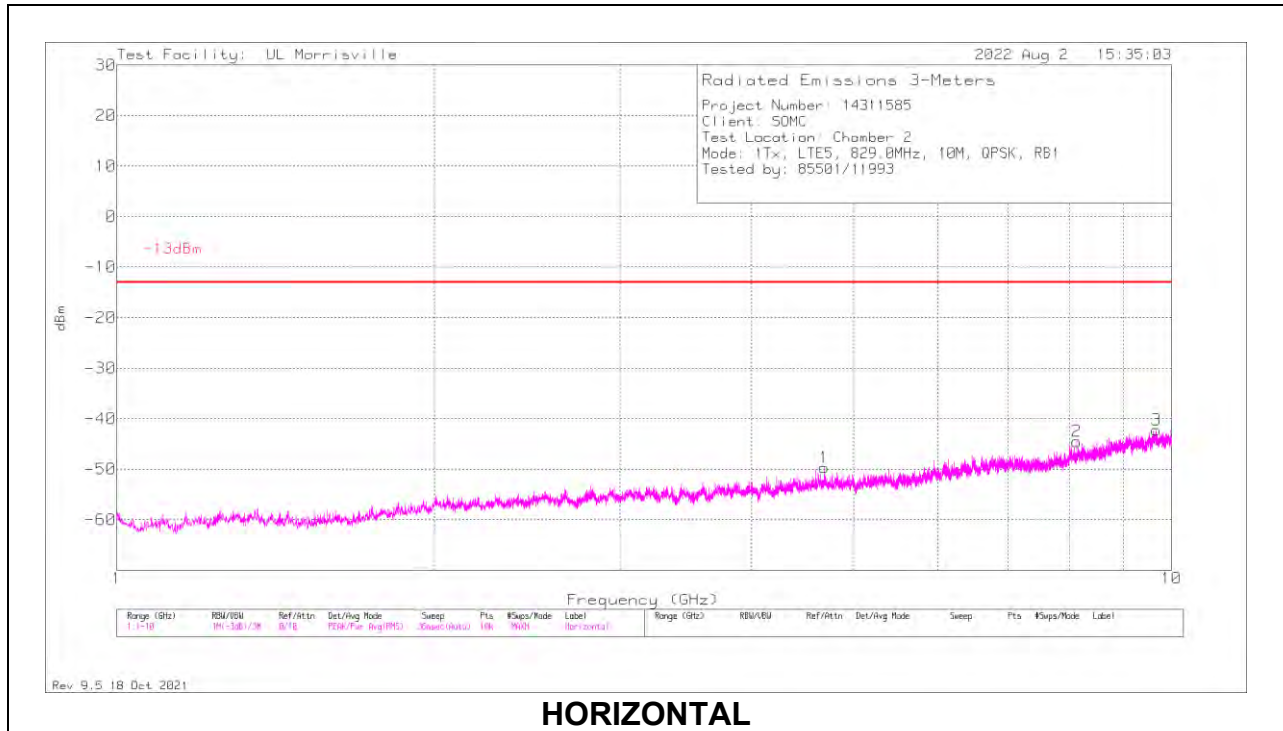
11.1.7. LTE BAND 5**LIMITS**

FCC: §22.917 (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

LOW CHANNEL RESULTS

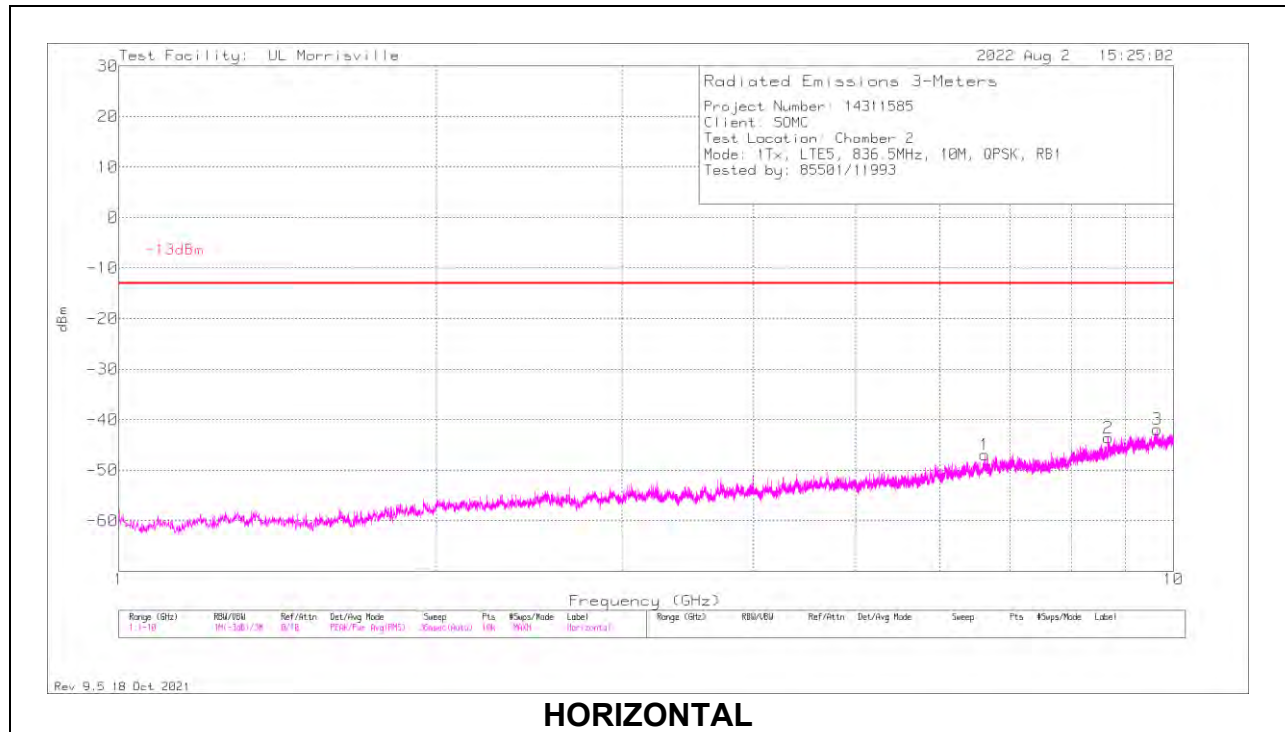


RADIATED EMISSIONS

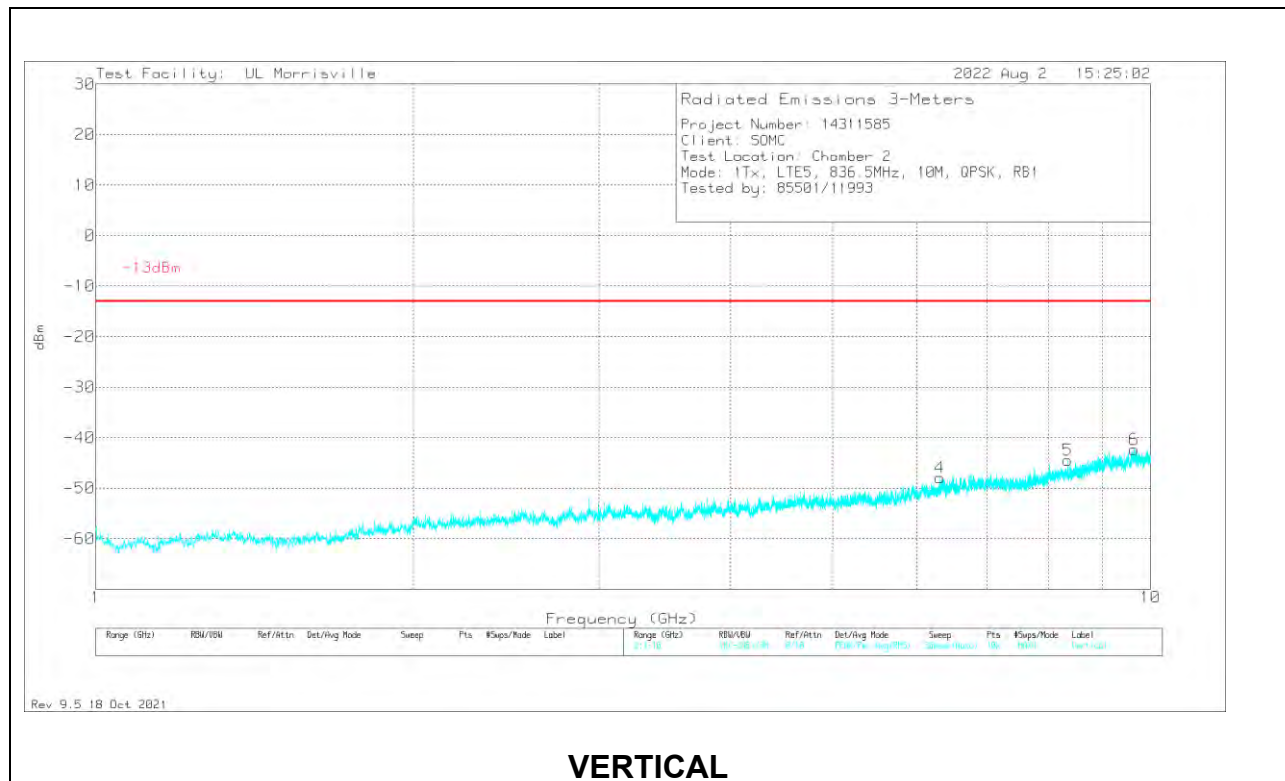
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	4.6855	-64.95	Pk	34.1	-30.9	.3	11.8	-49.65	-13	-36.65	0-360	101	H
4	6.4792	-66.79	Pk	35.6	-28.5	.7	11.8	-47.19	-13	-34.19	0-360	200	V
2	8.1334	-65.12	Pk	35.7	-27.3	.4	11.8	-44.52	-13	-31.52	0-360	199	H
5	9.0451	-64.92	Pk	36	-26.2	.6	11.8	-42.72	-13	-29.72	0-360	200	V
3	9.6778	-65.78	Pk	36.7	-25.6	.7	11.8	-42.18	-13	-29.18	0-360	199	H
6	9.7822	-65.72	Pk	36.8	-25.6	.9	11.8	-41.82	-13	-28.82	0-360	299	V

Pk - Peak detector

MID CHANNEL RESULTS



HORIZONTAL



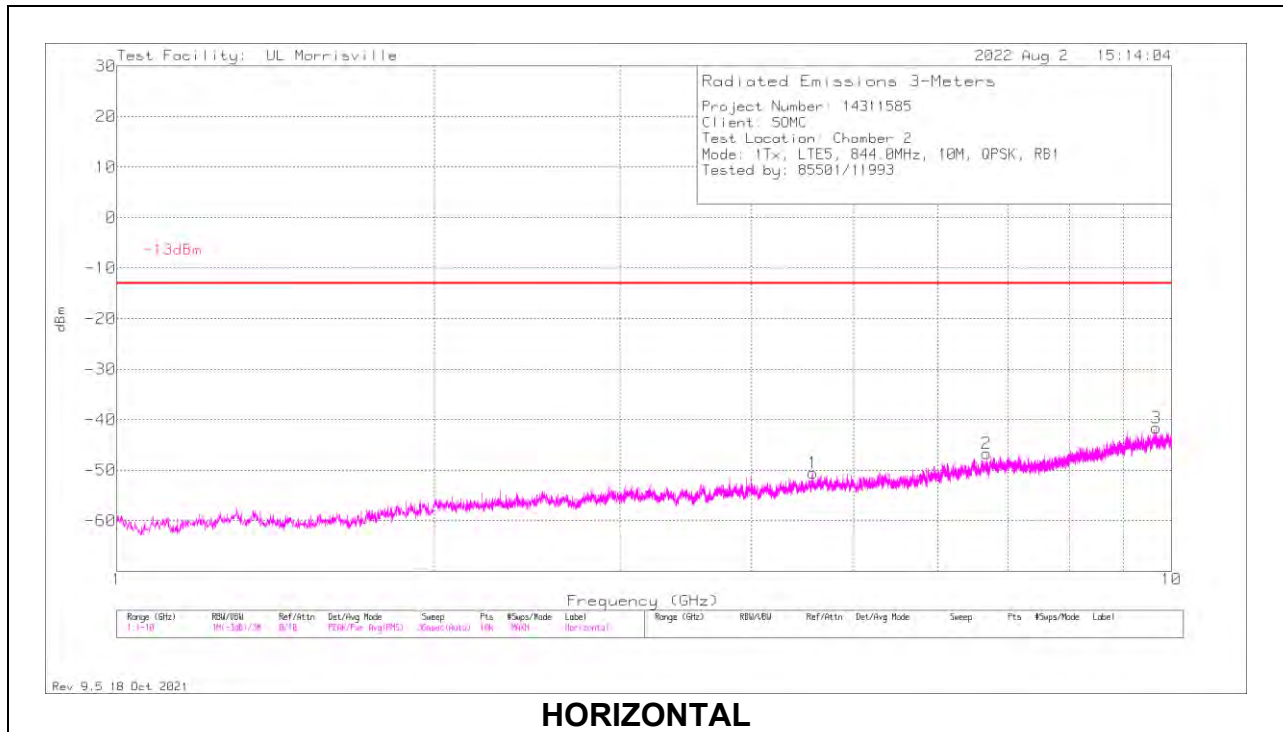
VERTICAL

RADIATED EMISSIONS

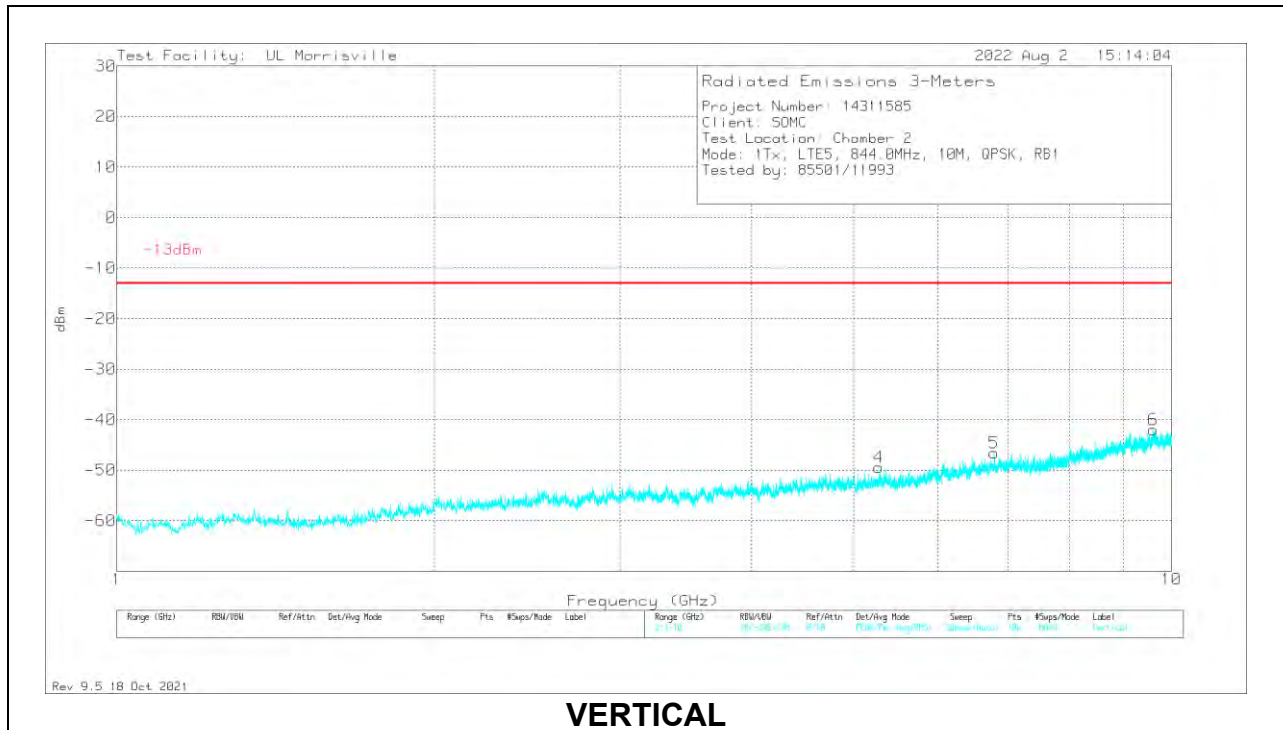
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	6.3145	-66.89	Pk	35.4	-29	.7	11.8	-47.99	-13	-34.99	0-360	200	V
1	6.6214	-66.1	Pk	35.6	-28.8	.6	11.8	-46.9	-13	-33.9	0-360	299	H
5	8.3431	-65.58	Pk	35.8	-26.9	.4	11.8	-44.48	-13	-31.48	0-360	200	V
2	8.6761	-65.28	Pk	36	-26.6	.5	11.8	-43.58	-13	-30.58	0-360	299	H
6	9.6472	-66.16	Pk	36.7	-25.6	.9	11.8	-42.36	-13	-29.36	0-360	200	V
3	9.6481	-65.81	Pk	36.7	-25.5	.9	11.8	-41.91	-13	-28.91	0-360	101	H

Pk - Peak detector

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

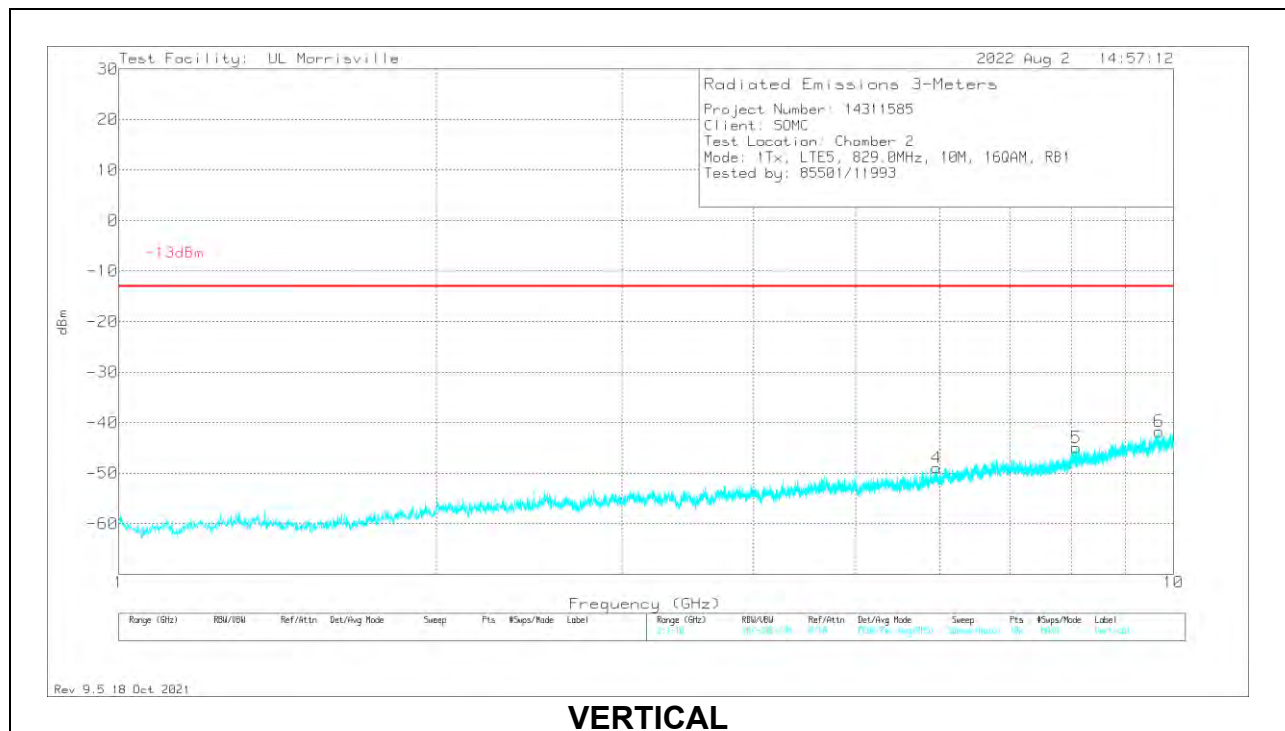
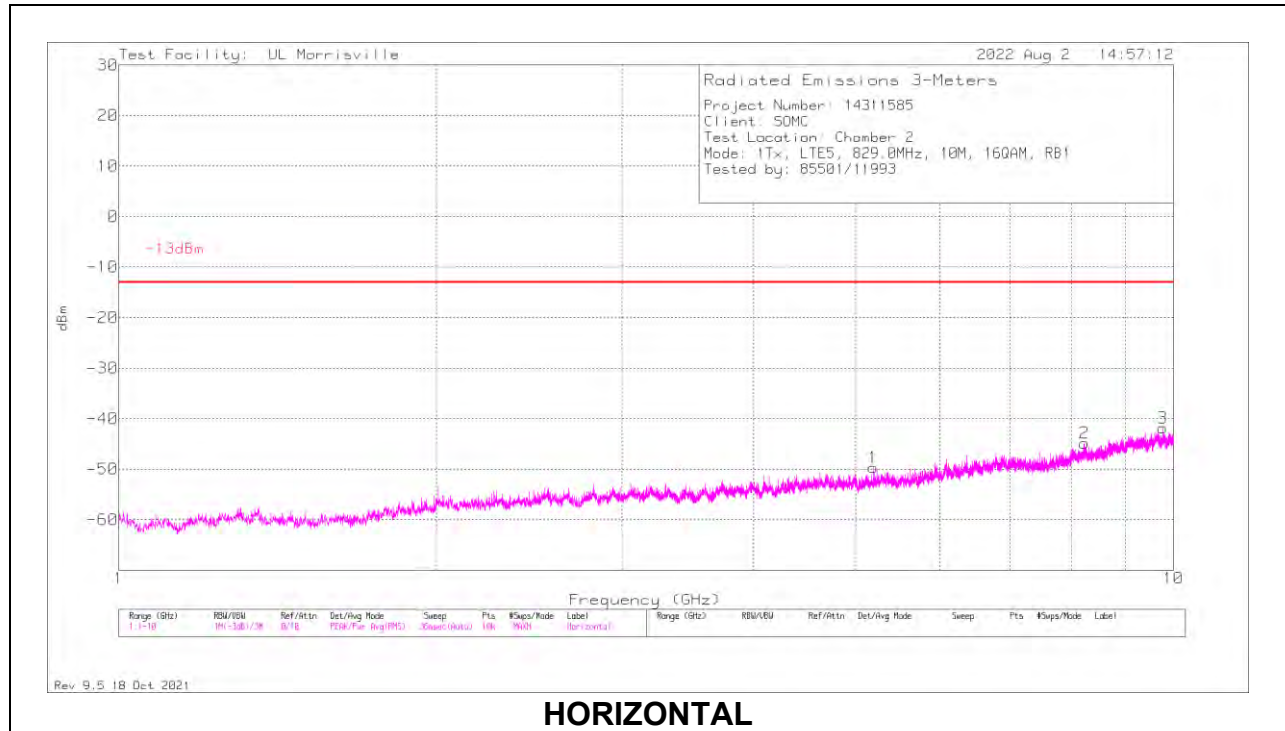
RADIATED EMISSIONS

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	4.5739	-65.07	Pk	34.2	-31.8	.3	11.8	-50.57	-13	-37.57	0-360	101	H
4	5.2795	-65.38	Pk	34.5	-30.6	.3	11.8	-49.38	-13	-36.38	0-360	200	V
2	6.6817	-66.18	Pk	35.6	-28.5	.6	11.8	-46.68	-13	-33.68	0-360	200	H
5	6.7906	-66.28	Pk	35.6	-28.4	.7	11.8	-46.58	-13	-33.58	0-360	299	V
6	9.6094	-65.88	Pk	36.7	-25.4	.8	11.8	-41.98	-13	-28.98	0-360	299	V
3	9.6715	-65.31	Pk	36.7	-25.5	.7	11.8	-41.61	-13	-28.61	0-360	101	H

Pk - Peak detector

16QAM

LOW CHANNEL RESULTS

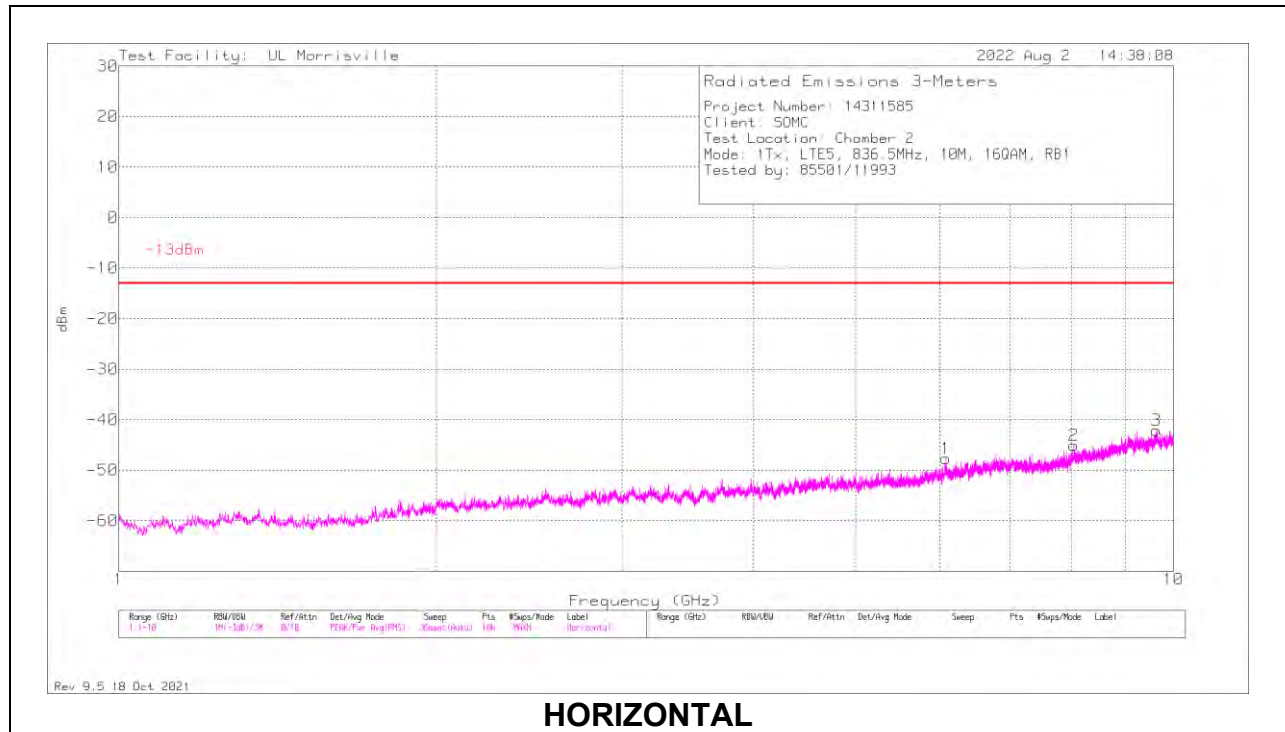


RADIATED EMISSIONS

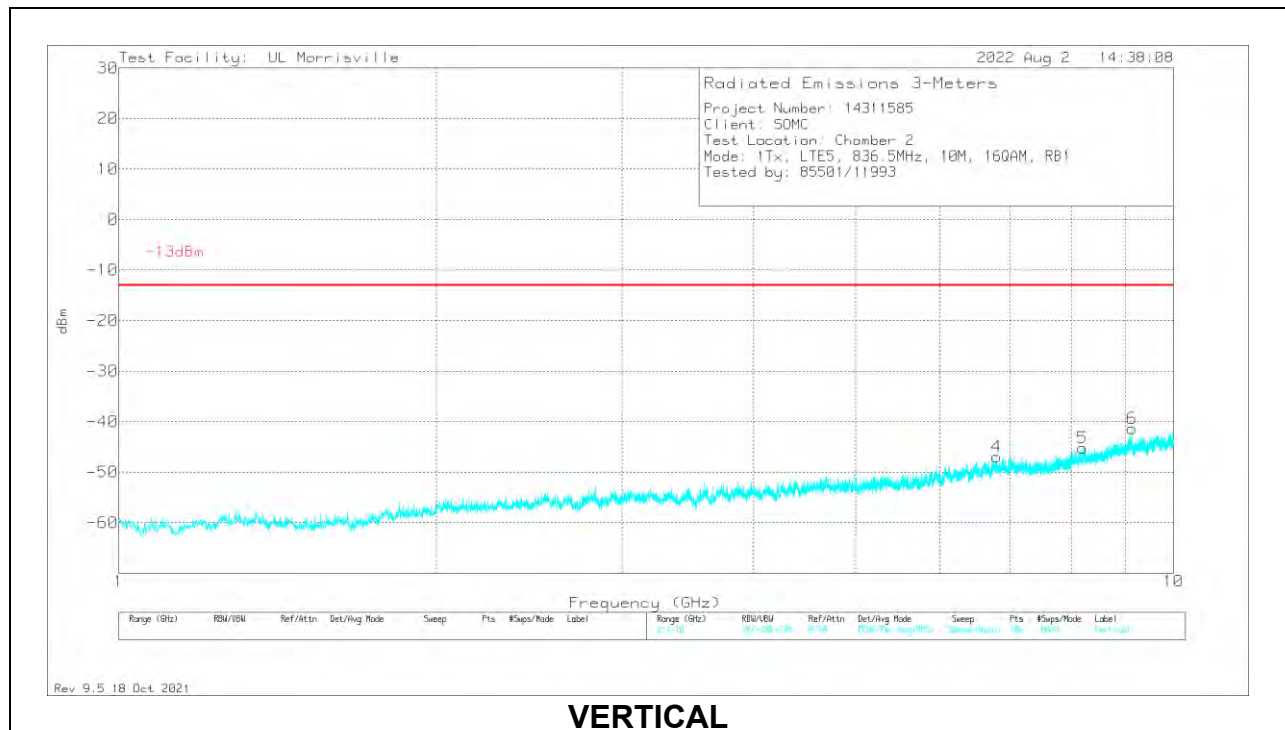
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.194	-65.08	Pk	34.3	-31	.3	11.8	-49.68	-13	-36.68	0-360	299	H
4	5.9626	-66.56	Pk	35.1	-29.9	.6	11.8	-48.96	-13	-35.96	0-360	299	V
5	8.0911	-65.67	Pk	35.8	-27.3	.4	11.8	-44.97	-13	-31.97	0-360	101	V
2	8.2342	-65.38	Pk	35.8	-27.4	.4	11.8	-44.78	-13	-31.78	0-360	299	H
6	9.6886	-64.87	Pk	36.7	-25.9	.6	11.8	-41.67	-13	-28.67	0-360	299	V
3	9.7642	-65.7	Pk	36.8	-25.6	.9	11.8	-41.8	-13	-28.8	0-360	299	H

Pk - Peak detector

MID CHANNEL RESULTS



HORIZONTAL



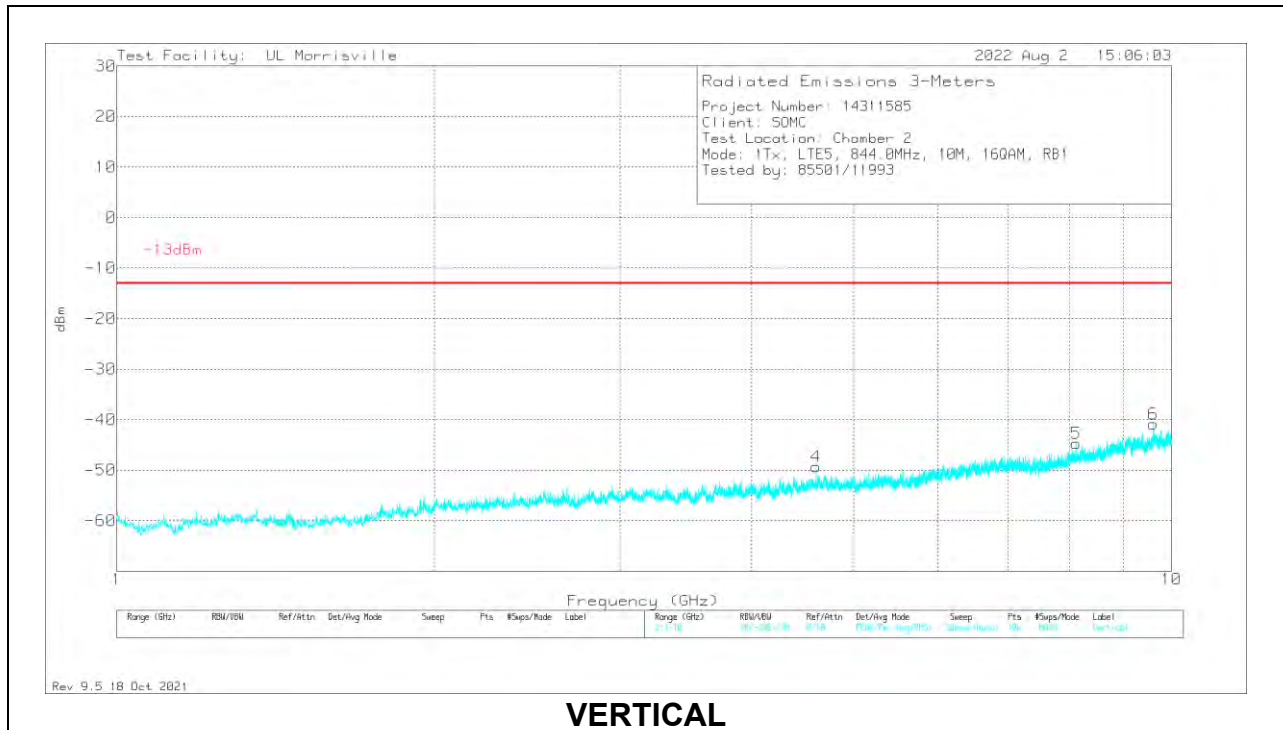
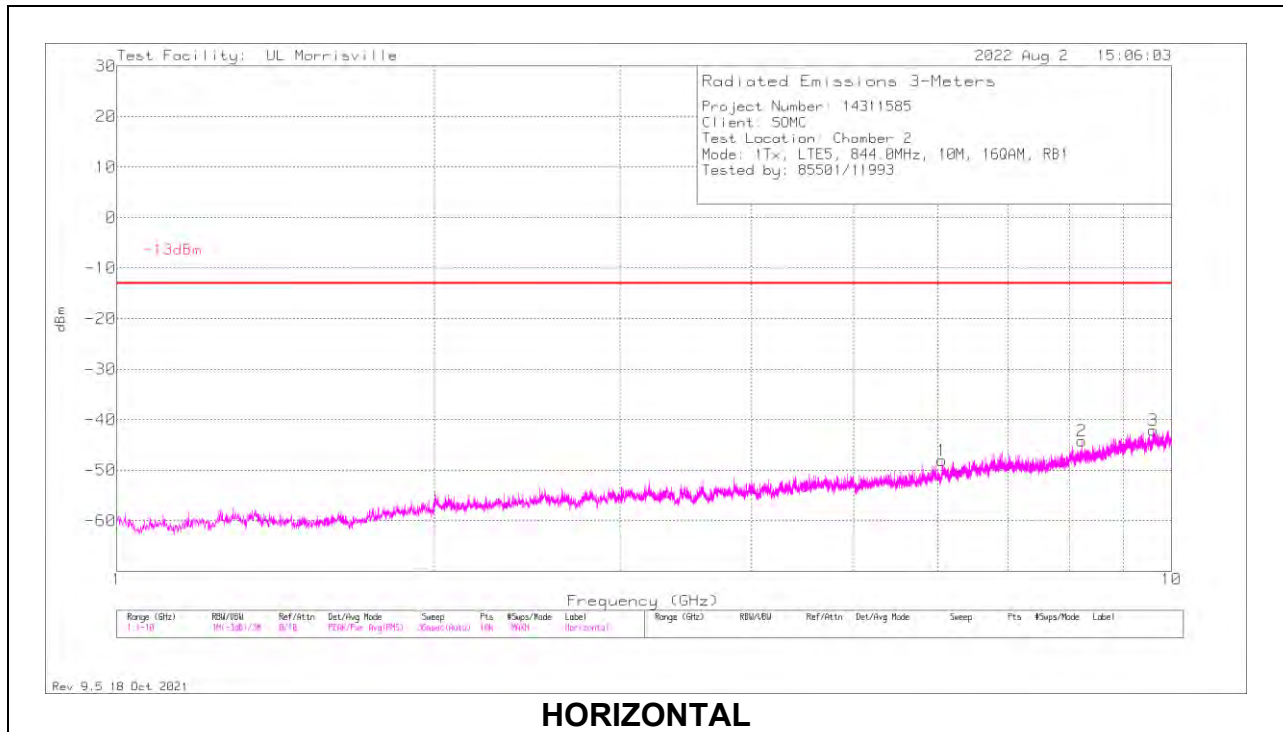
VERTICAL

RADIATED EMISSIONS

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	6.0814	-66.5	Pk	35.2	-29	.8	11.8	-47.7	-13	-34.7	0-360	199	H
4	6.7969	-67.15	Pk	35.6	-27.9	.7	11.8	-46.95	-13	-33.95	0-360	101	V
2	8.0407	-66.14	Pk	35.8	-26.9	.4	11.8	-45.04	-13	-32.04	0-360	299	H
5	8.2054	-65.8	Pk	35.7	-27.3	.4	11.8	-45.2	-13	-32.2	0-360	101	V
6	9.1351	-63.91	Pk	36.2	-26	.5	11.8	-41.41	-13	-28.41	0-360	200	V
3	9.6337	-65.45	Pk	36.7	-26	.9	11.8	-42.05	-13	-29.05	0-360	199	H

Pk - Peak detector

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

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	4.6036	-64.05	Pk	34.2	-31.6	.3	11.8	-49.35	-13	-36.35	0-360	200	V
1	6.0643	-66.38	Pk	35.2	-29.4	.7	11.8	-48.08	-13	-35.08	0-360	101	H
5	8.1226	-65.25	Pk	35.7	-27.4	.4	11.8	-44.75	-13	-31.75	0-360	101	V
2	8.227	-65.23	Pk	35.7	-26.9	.4	11.8	-44.23	-13	-31.23	0-360	101	H
6	9.6058	-64.71	Pk	36.7	-25.5	.8	11.8	-40.91	-13	-27.91	0-360	200	V
3	9.6103	-65.89	Pk	36.7	-25.5	.8	11.8	-42.09	-13	-29.09	0-360	300	H

Pk - Peak detector

11.1.8. LTE BAND 12

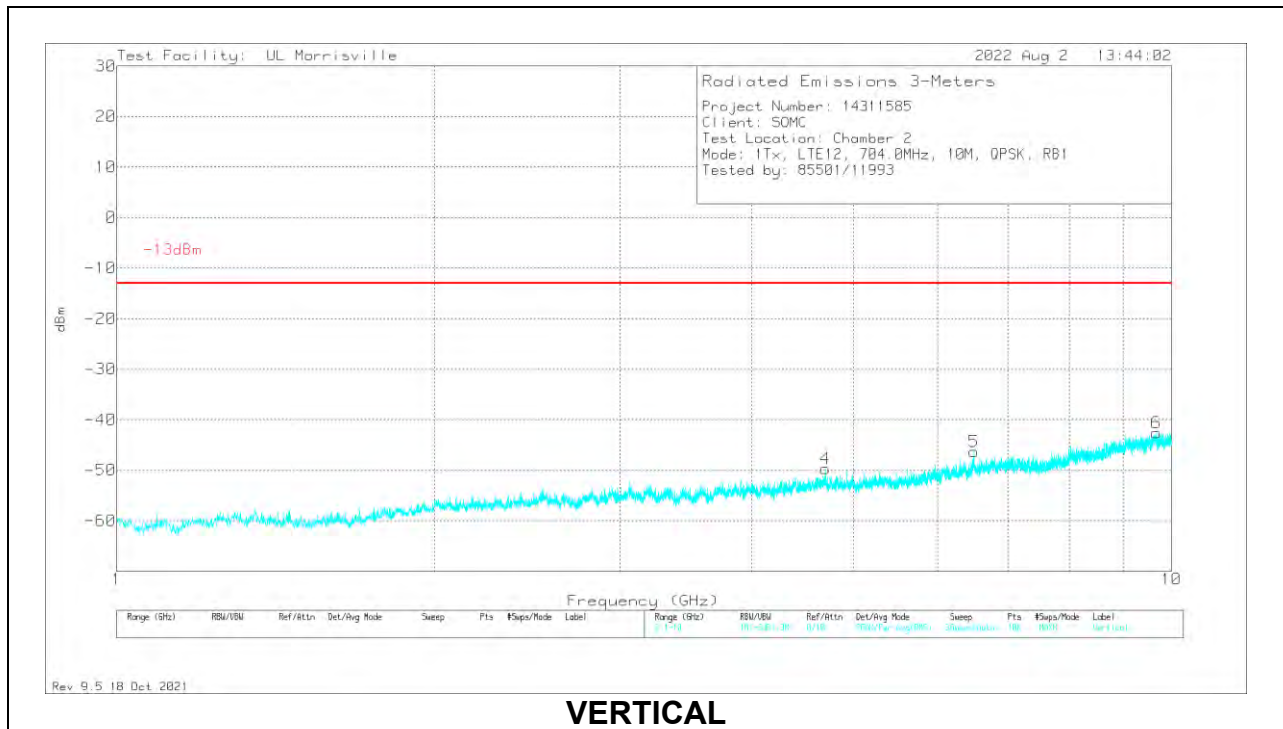
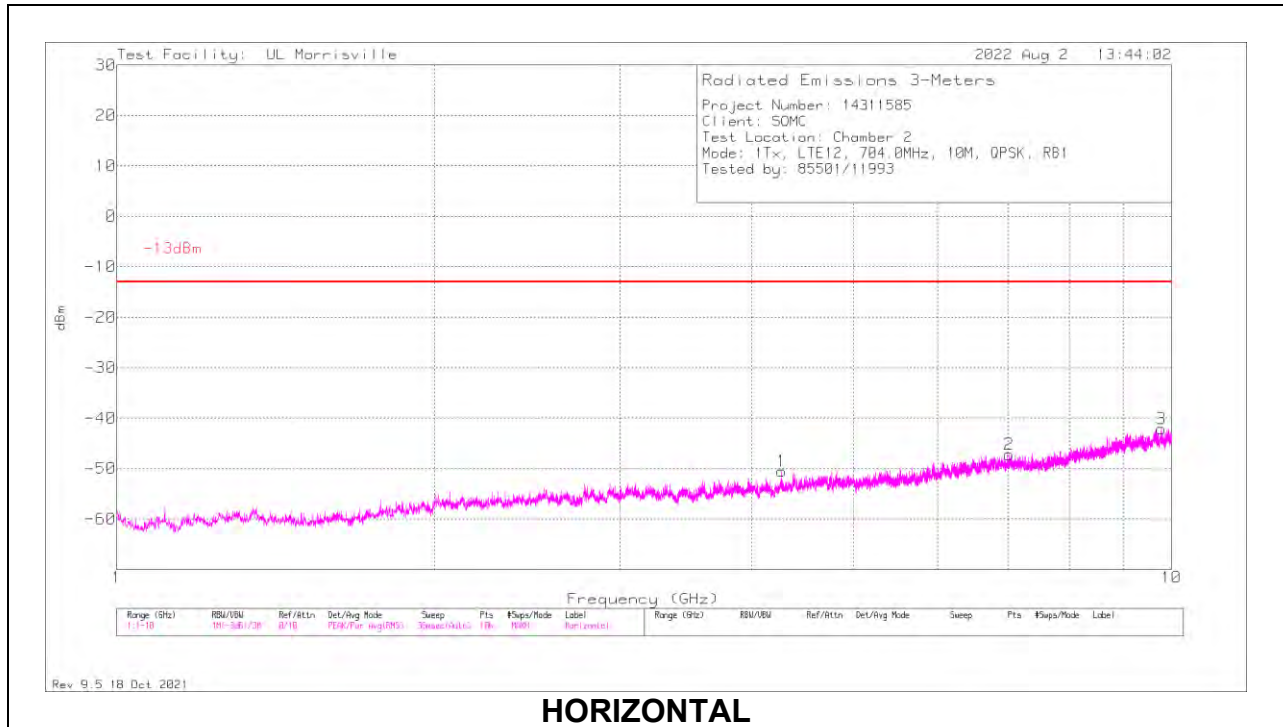
LIMITS

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.

QPSK

LOW CHANNEL RESULTS

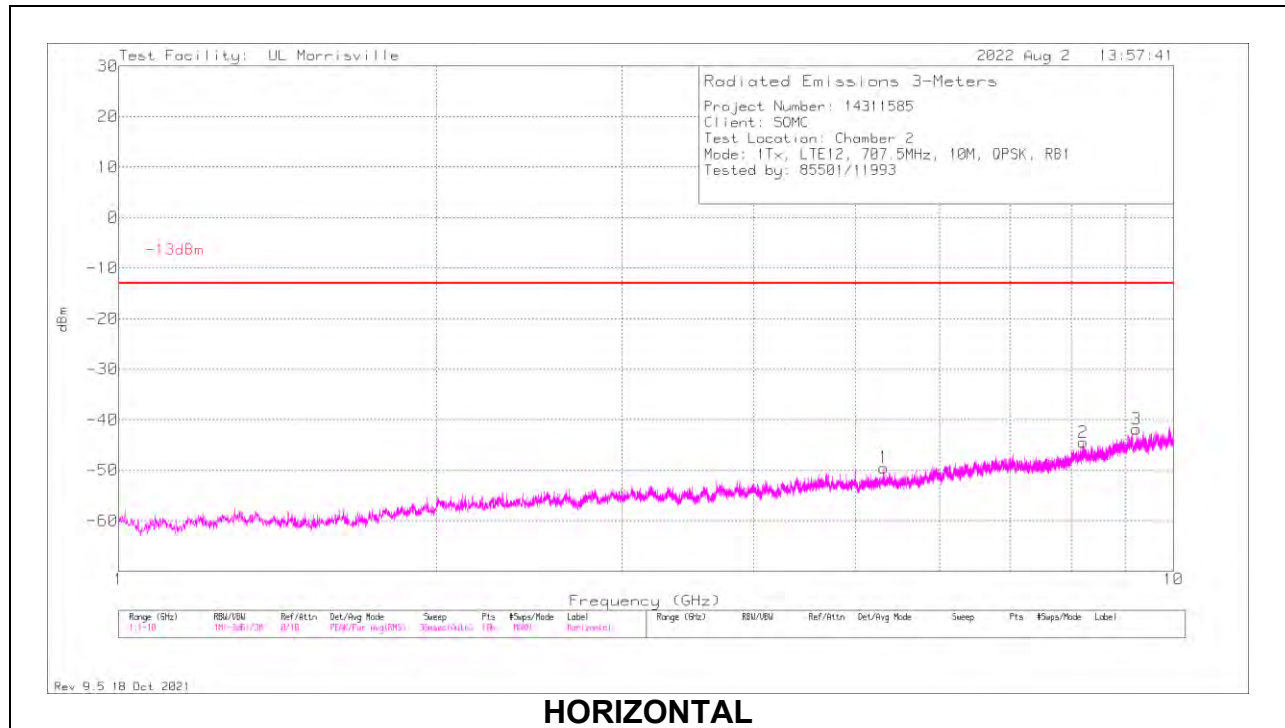


RADIATED EMISSIONS

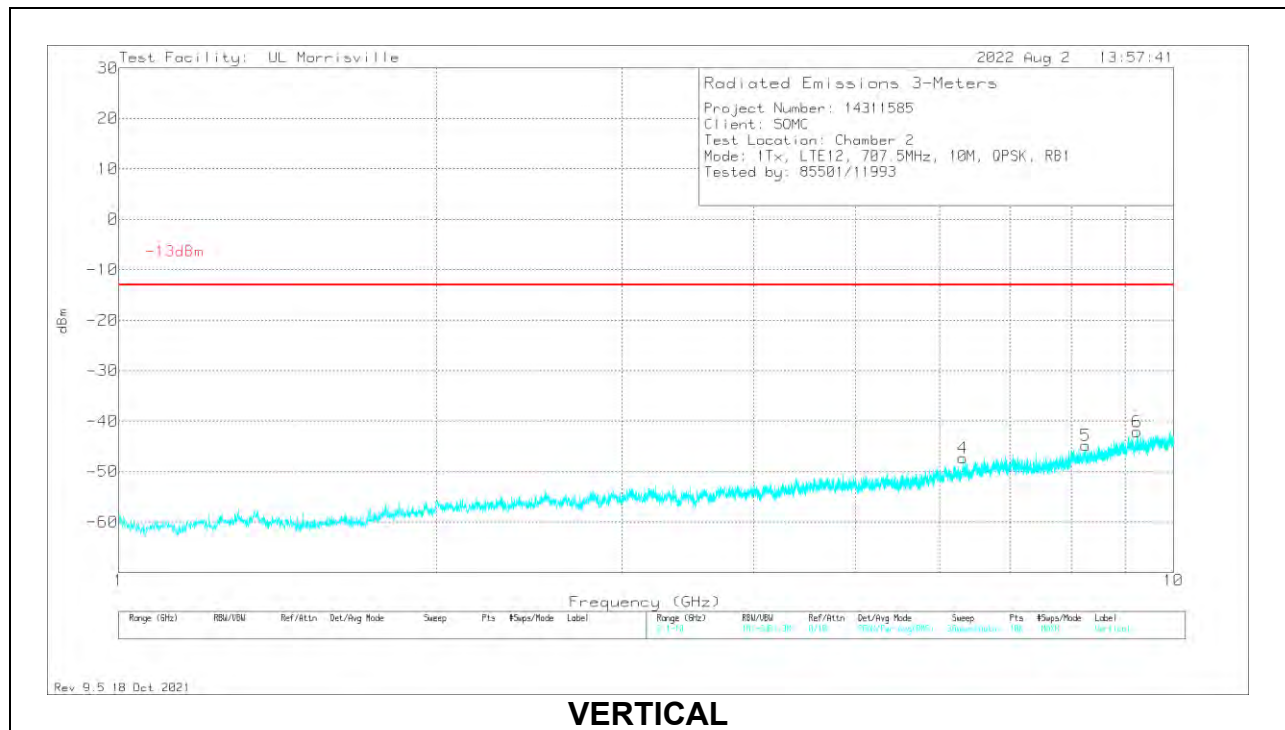
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	4.2679	-64.31	Pk	33.3	-31.7	.4	11.8	-50.51	-13	-37.51	0-360	101	H
4	4.6963	-65.01	Pk	34.1	-30.9	.3	11.8	-49.71	-13	-36.71	0-360	101	V
5	6.4945	-66.02	Pk	35.6	-28.4	.7	11.8	-46.32	-13	-33.32	0-360	101	V
2	7.0138	-66.75	Pk	35.6	-28.4	.5	11.8	-47.25	-13	-34.25	0-360	199	H
6	9.676	-66.16	Pk	36.7	-25.6	.7	11.8	-42.56	-13	-29.56	0-360	200	V
3	9.7885	-65.99	Pk	36.8	-25.6	.9	11.8	-42.09	-13	-29.09	0-360	299	H

Pk - Peak detector

MID CHANNEL RESULTS



HORIZONTAL



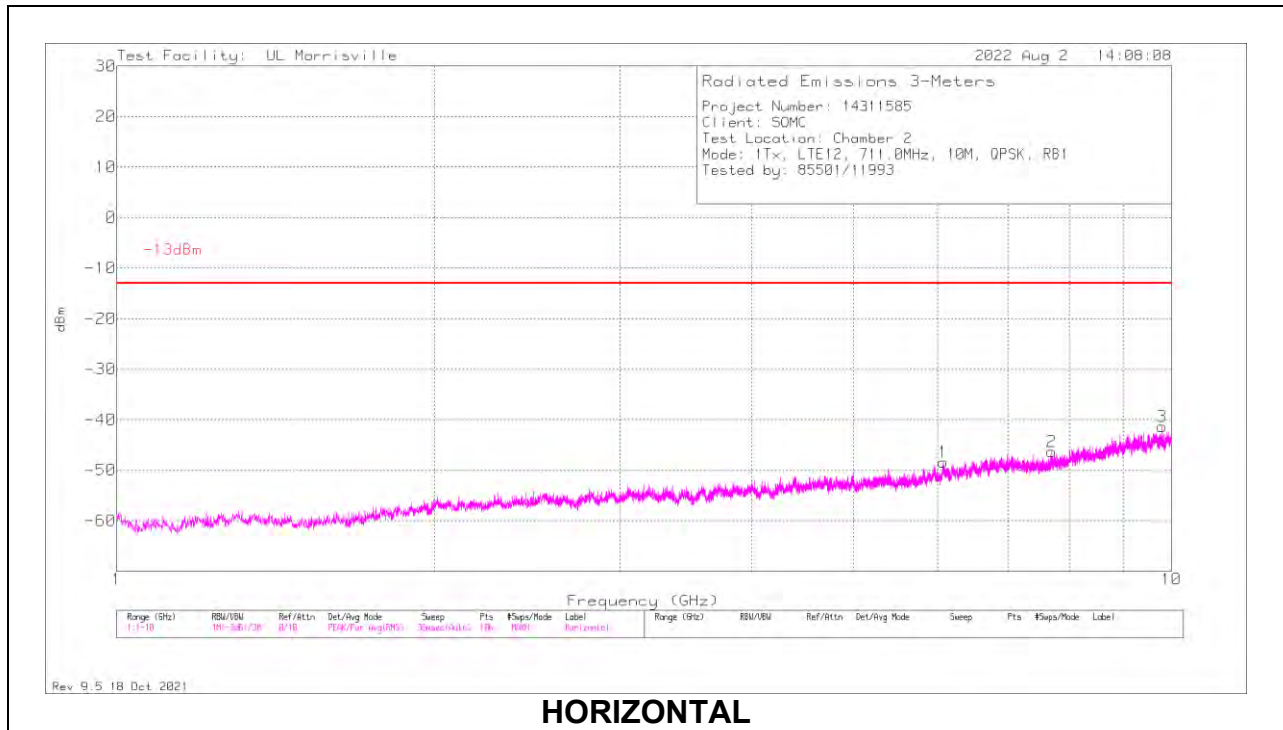
VERTICAL

RADIATED EMISSIONS

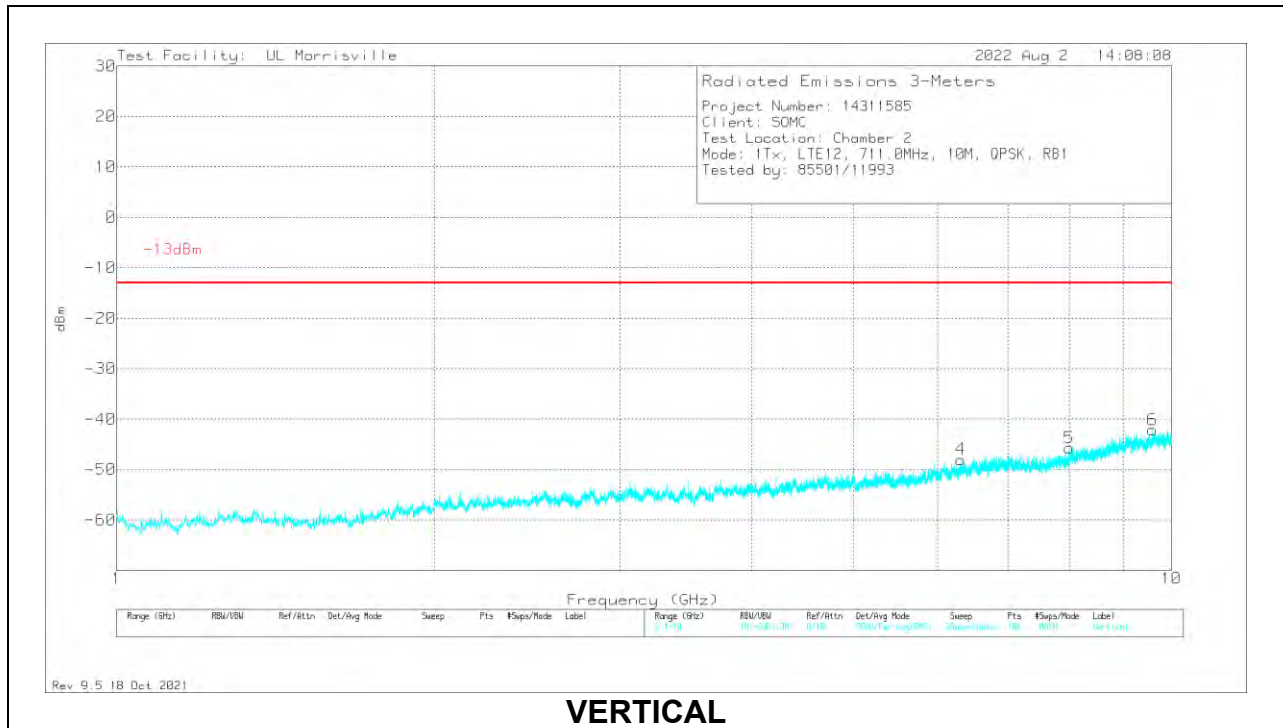
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.3119	-65.69	Pk	34.6	-30.5	.3	11.8	-49.49	-13	-36.49	0-360	299	H
4	6.3145	-66.19	Pk	35.4	-29	.7	11.8	-47.29	-13	-34.29	0-360	200	V
2	8.2162	-65.16	Pk	35.7	-27.2	.4	11.8	-44.46	-13	-31.46	0-360	101	H
5	8.2522	-65.8	Pk	35.8	-27	.4	11.8	-44.8	-13	-31.8	0-360	200	V
3	9.226	-64.42	Pk	36.3	-26.3	.8	11.8	-41.82	-13	-28.82	0-360	299	H
6	9.2386	-64.38	Pk	36.3	-26.5	.7	11.8	-42.08	-13	-29.08	0-360	299	V

Pk - Peak detector

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

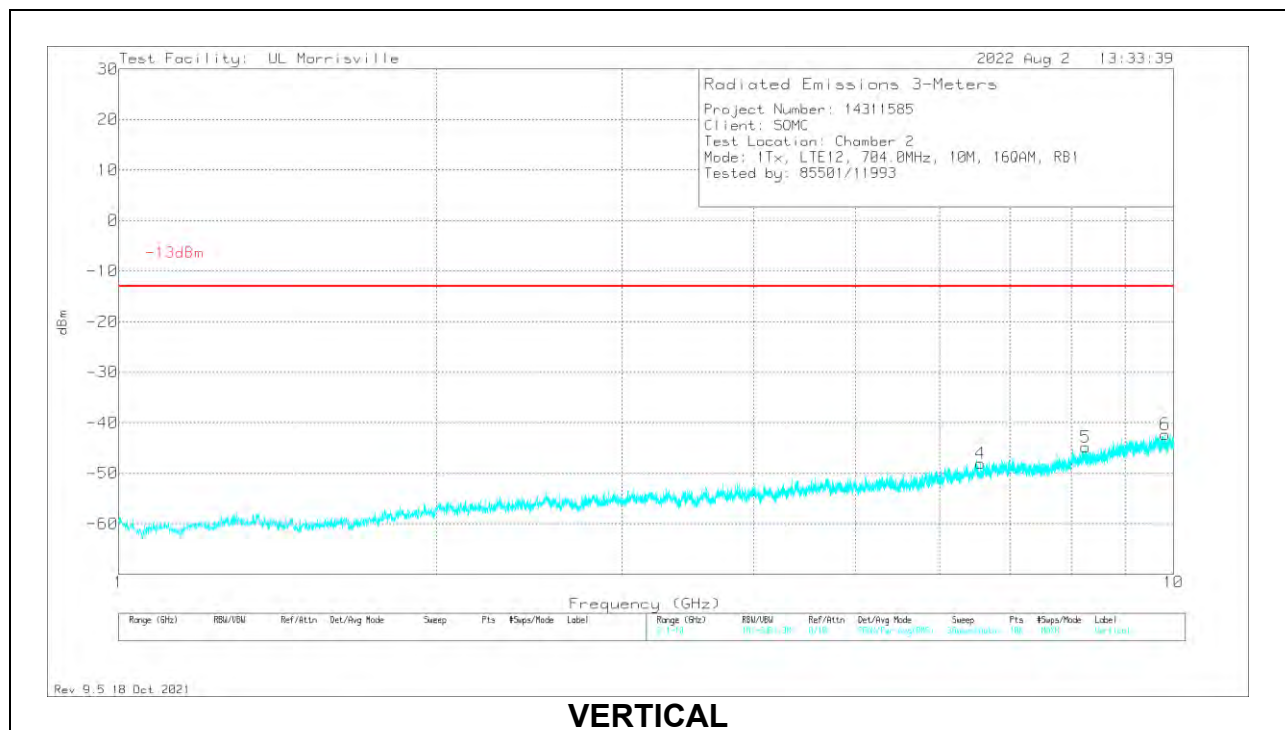
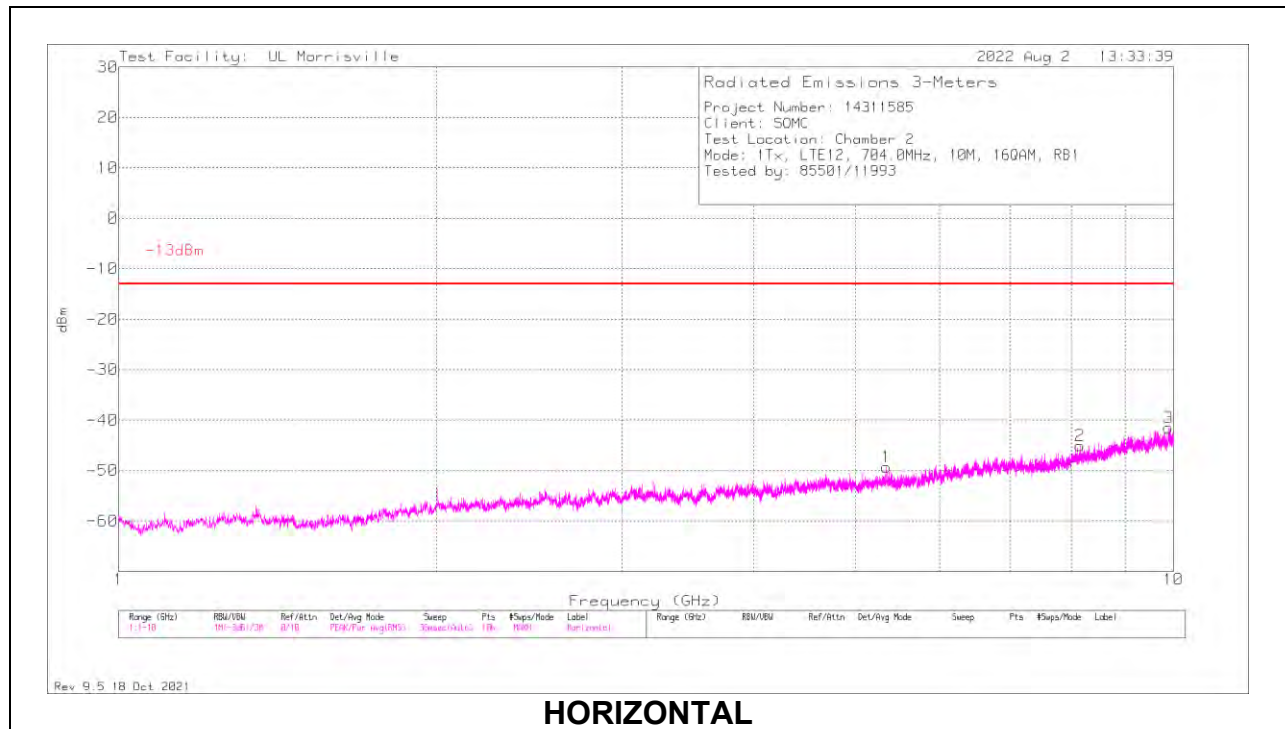
RADIATED EMISSIONS

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	6.076	-67.19	Pk	35.2	-29	.8	11.8	-48.39	-13	-35.39	0-360	101	H
4	6.3109	-66.9	Pk	35.4	-29	.7	11.8	-48	-13	-35	0-360	200	V
2	7.6996	-66.6	Pk	35.7	-27.7	.5	11.8	-46.3	-13	-33.3	0-360	101	H
5	8.002	-66.72	Pk	35.8	-27	.4	11.8	-45.72	-13	-32.72	0-360	101	V
6	9.6022	-65.65	Pk	36.7	-25.8	.8	11.8	-42.15	-13	-29.15	0-360	101	V
3	9.7921	-65.08	Pk	36.8	-25.7	.8	11.8	-41.38	-13	-28.38	0-360	200	H

Pk - Peak detector

16QAM

LOW CHANNEL RESULTS

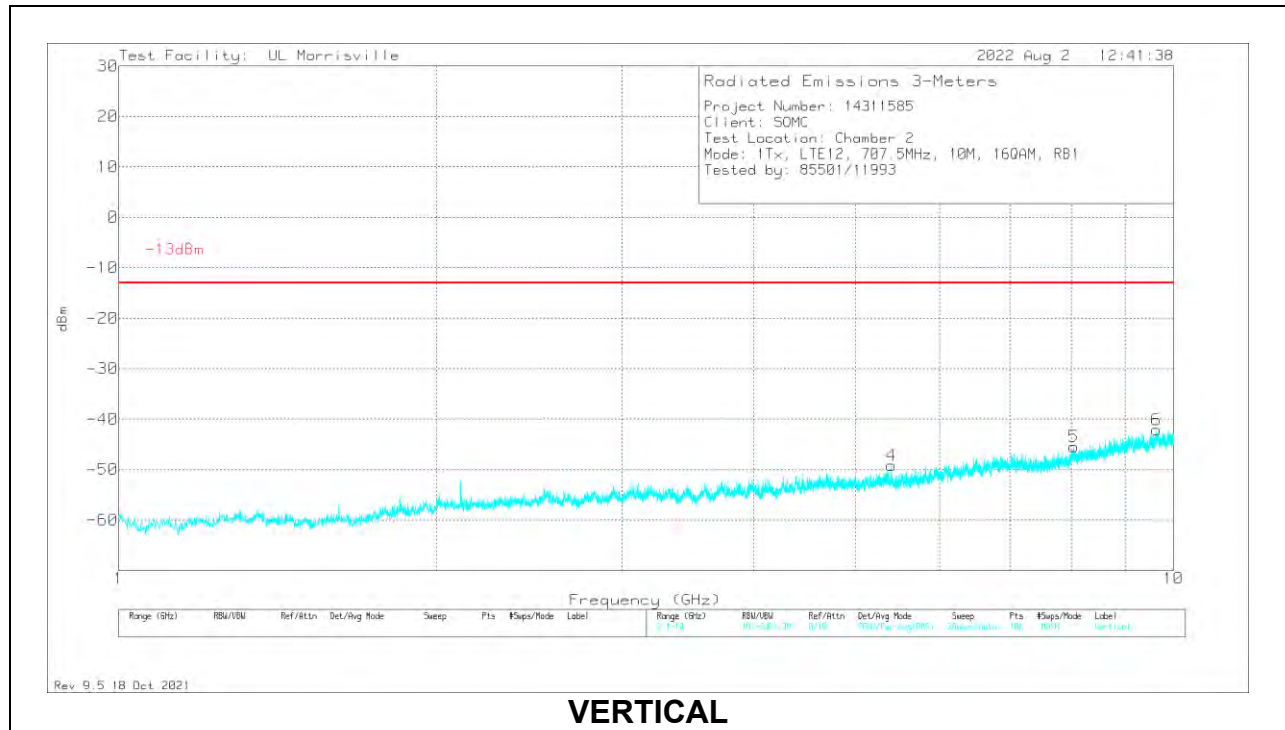
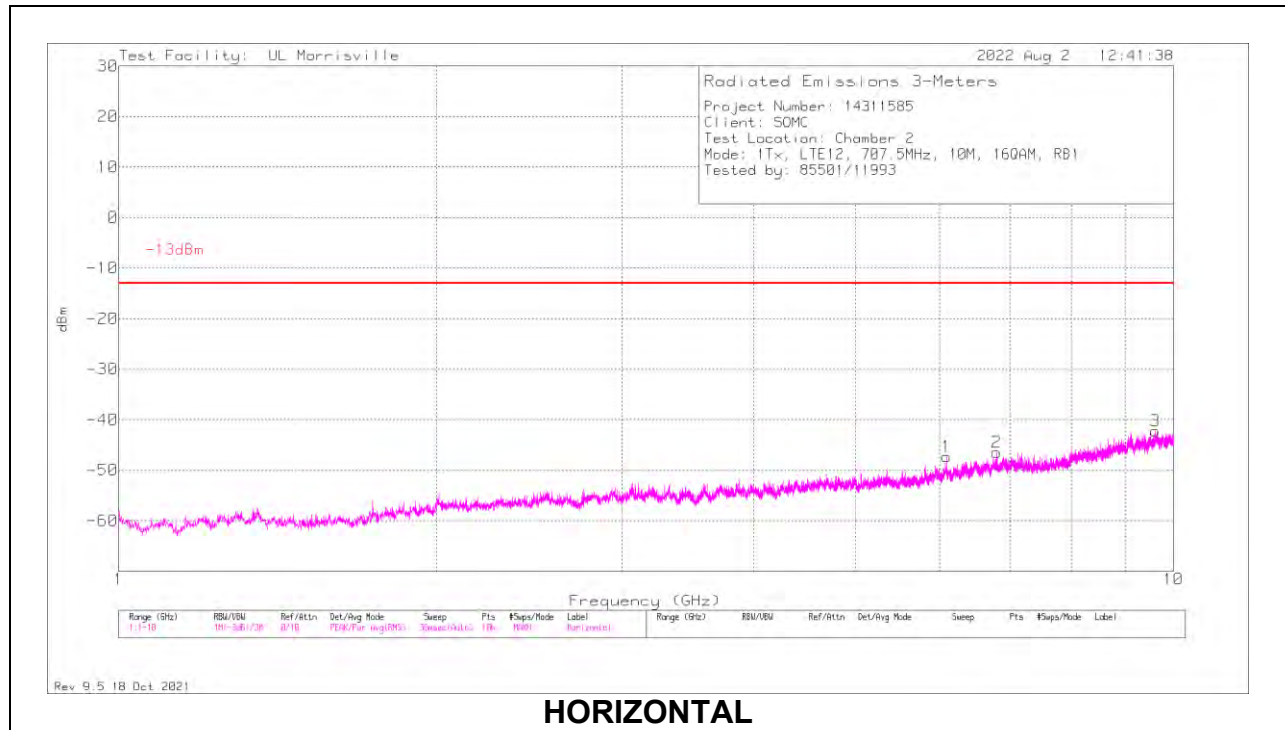


RADIATED EMISSIONS

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	5.347	-66.05	Pk	34.6	-29.9	.3	11.8	-49.25	-13	-36.25	0-360	101	H
4	6.5593	-66.85	Pk	35.5	-29.1	.6	11.8	-48.05	-13	-35.05	0-360	101	V
2	8.1595	-65.96	Pk	35.7	-27.1	.5	11.8	-45.06	-13	-32.06	0-360	300	H
5	8.2531	-65.93	Pk	35.8	-26.9	.4	11.8	-44.83	-13	-31.83	0-360	300	V
6	9.8191	-66.29	Pk	36.9	-25.3	.6	11.8	-42.29	-13	-29.29	0-360	200	V
3	9.8947	-65.92	Pk	37	-25.3	.9	11.8	-41.52	-13	-28.52	0-360	199	H

Pk - Peak detector

MID CHANNEL RESULTS

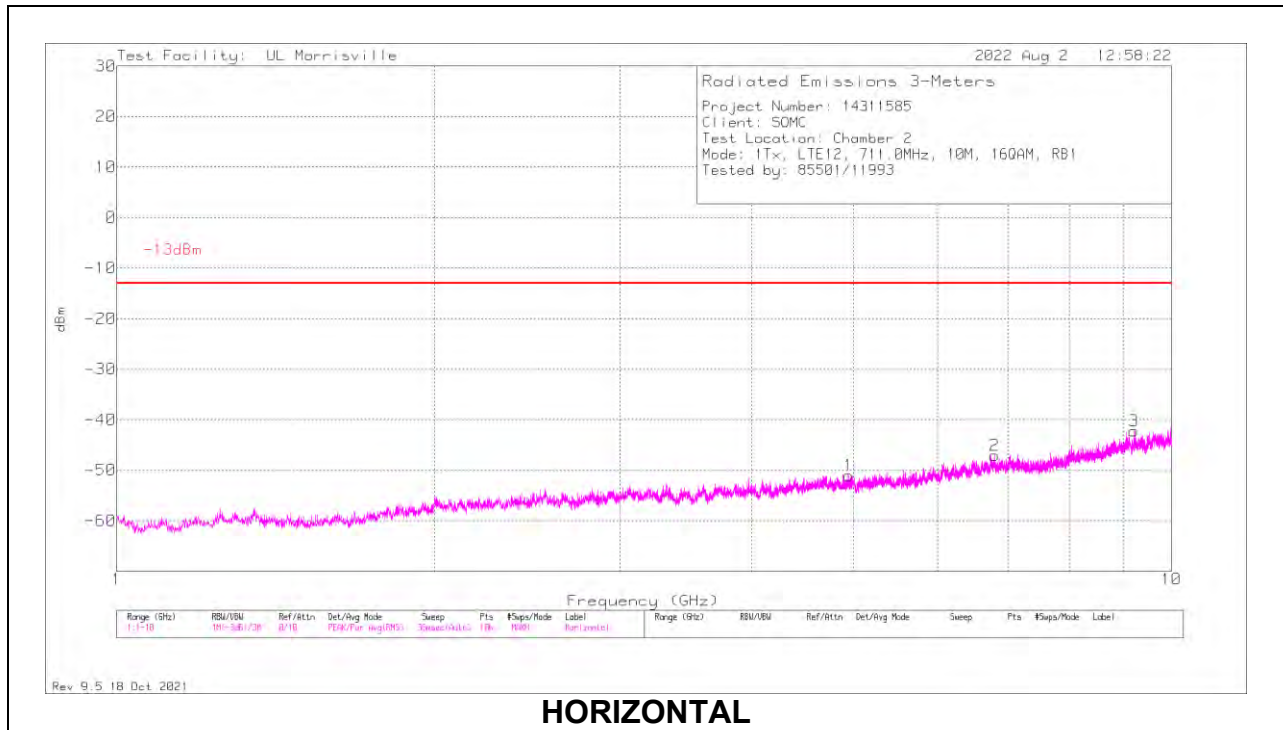


RADIATED EMISSIONS

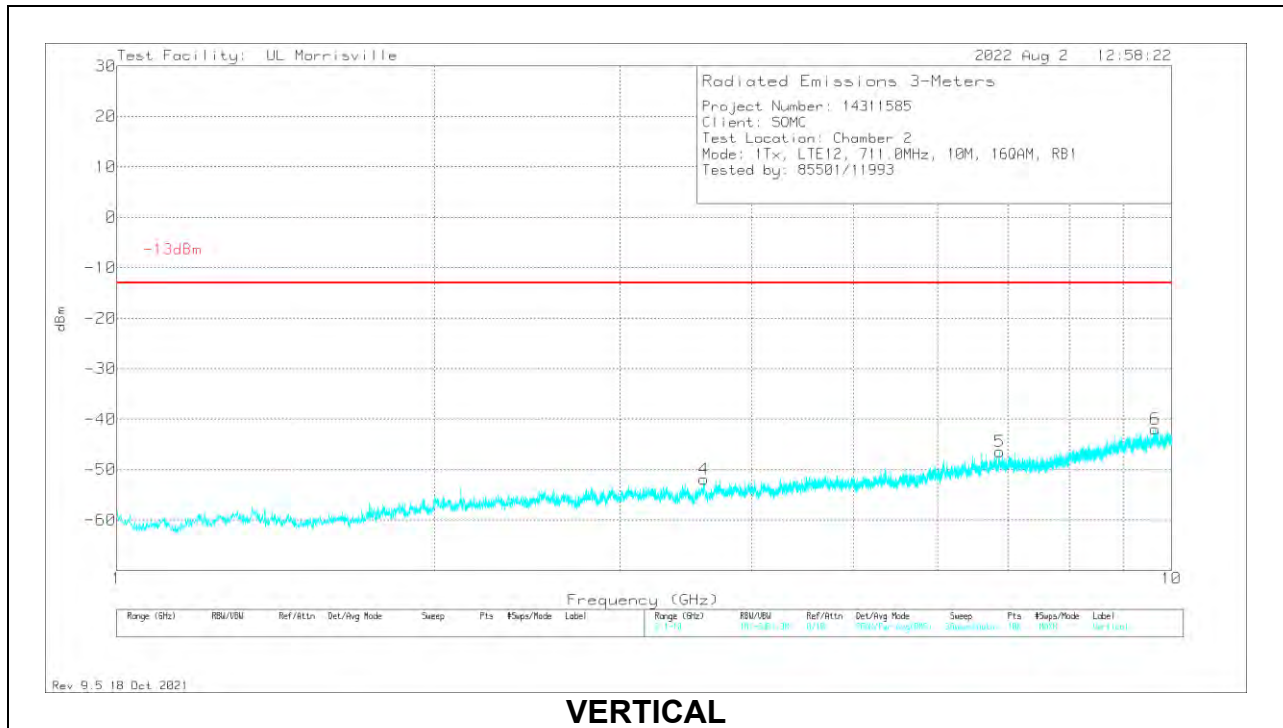
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	Filter (dB)	CF (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	5.3992	-65.52	Pk	34.4	-30.3	.4	11.8	-49.22	-13	-36.22	0-360	299	V
1	6.0967	-65.78	Pk	35.2	-29.2	.7	11.8	-47.28	-13	-34.28	0-360	299	H
2	6.7978	-66.64	Pk	35.6	-27.9	.7	11.8	-46.44	-13	-33.44	0-360	200	H
5	8.047	-66.5	Pk	35.8	-27	.4	11.8	-45.5	-13	-32.5	0-360	200	V
3	9.6085	-66.16	Pk	36.7	-25.4	.8	11.8	-42.26	-13	-29.26	0-360	200	H
6	9.6427	-65.63	Pk	36.7	-25.9	.9	11.8	-42.13	-13	-29.13	0-360	299	V

Pk - Peak detector

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

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	3.601	-64.45	Pk	33	-32.9	.6	11.8	-51.95	-13	-38.95	0-360	300	V
1	4.9447	-65.61	Pk	33.9	-31.4	.3	11.8	-51.01	-13	-38.01	0-360	101	H
2	6.7987	-67.14	Pk	35.6	-28	.7	11.8	-47.04	-13	-34.04	0-360	200	H
5	6.8752	-66.21	Pk	35.6	-28.1	.5	11.8	-46.41	-13	-33.41	0-360	300	V
3	9.2143	-64.45	Pk	36.3	-26.6	.7	11.8	-42.25	-13	-29.25	0-360	200	H
6	9.6508	-66.02	Pk	36.7	-25.4	.9	11.8	-42.02	-13	-29.02	0-360	300	V

Pk - Peak detector

11.1.9. LTE BAND 13

LIMITS

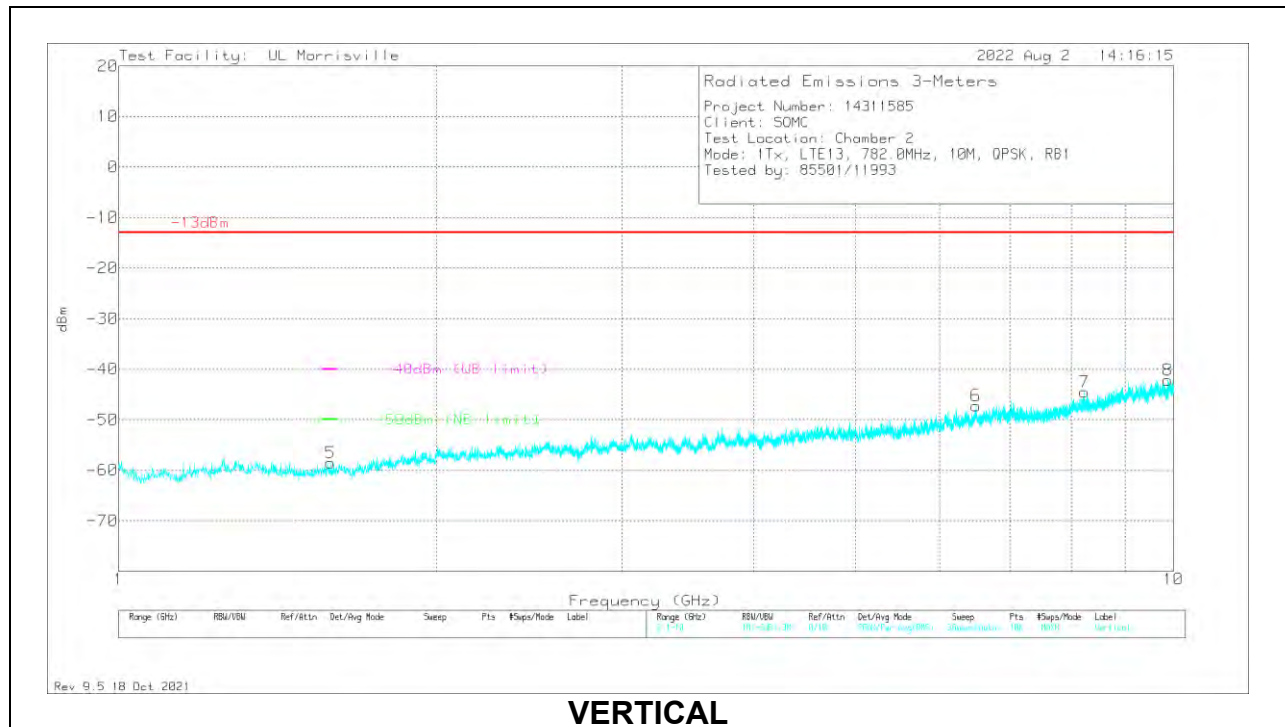
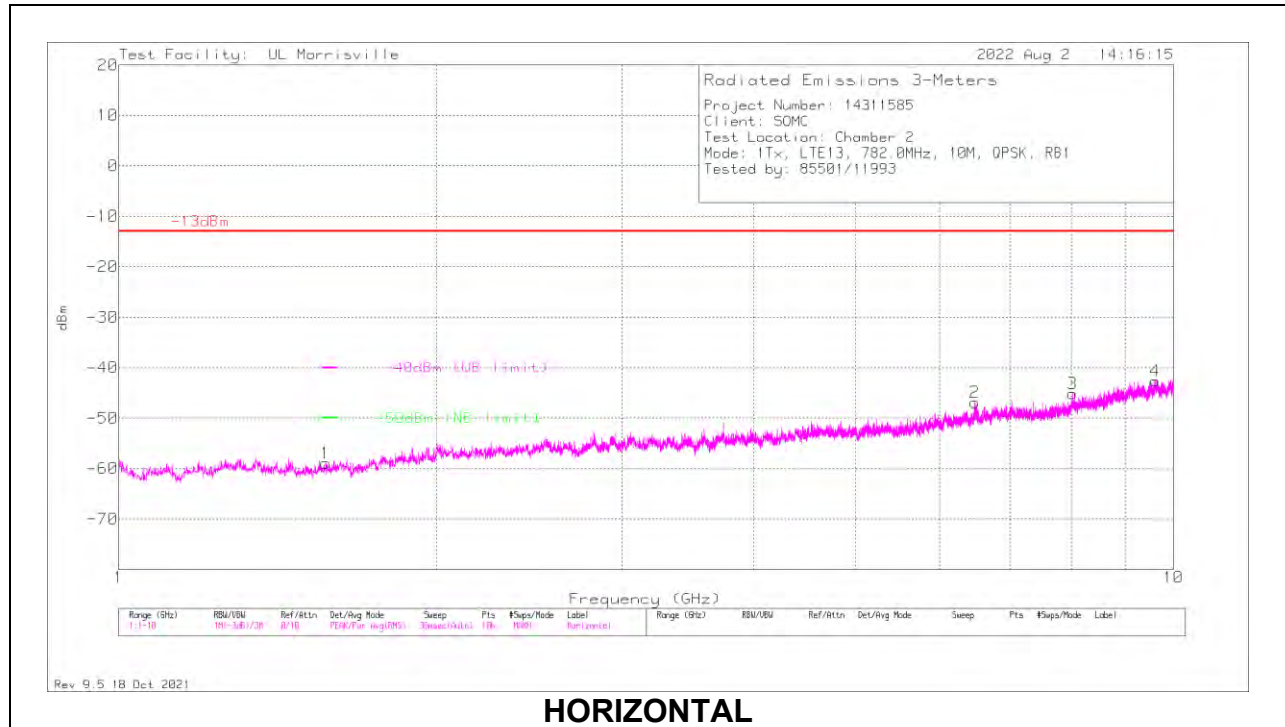
FCC: §27.53

(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.

QPSK

MID CHANNEL RESULTS



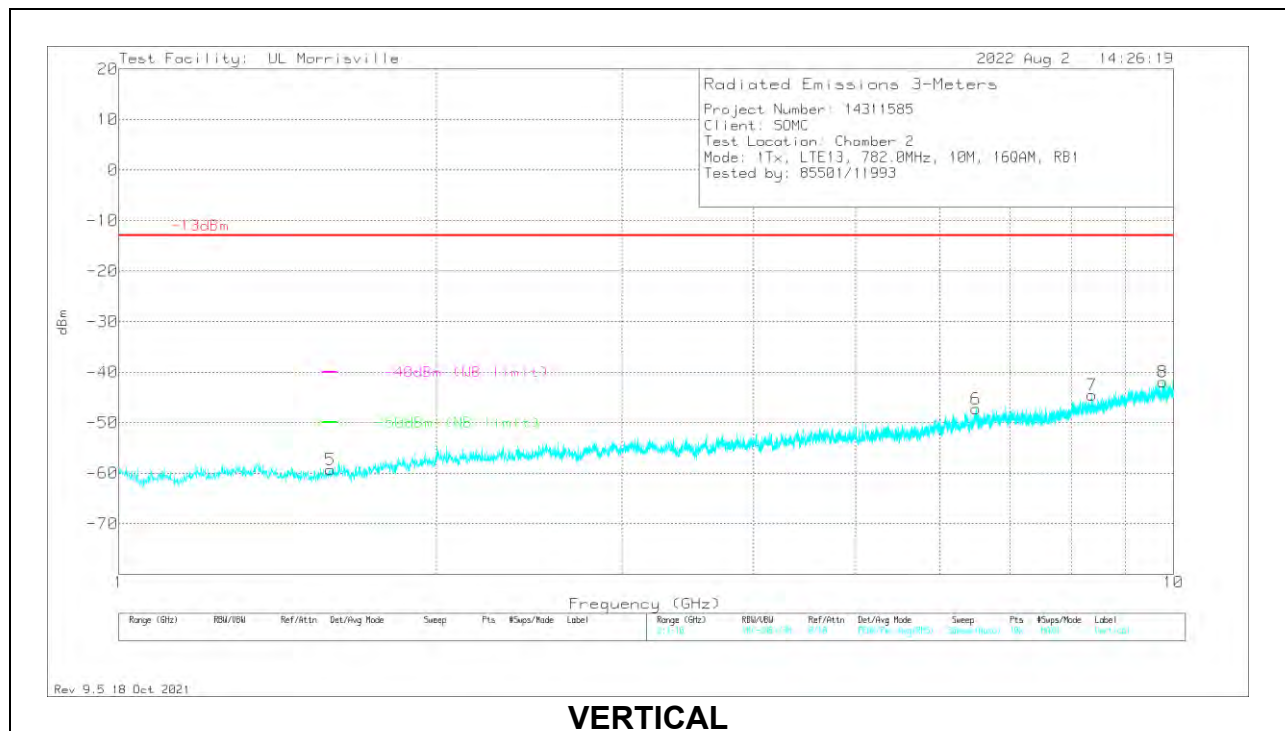
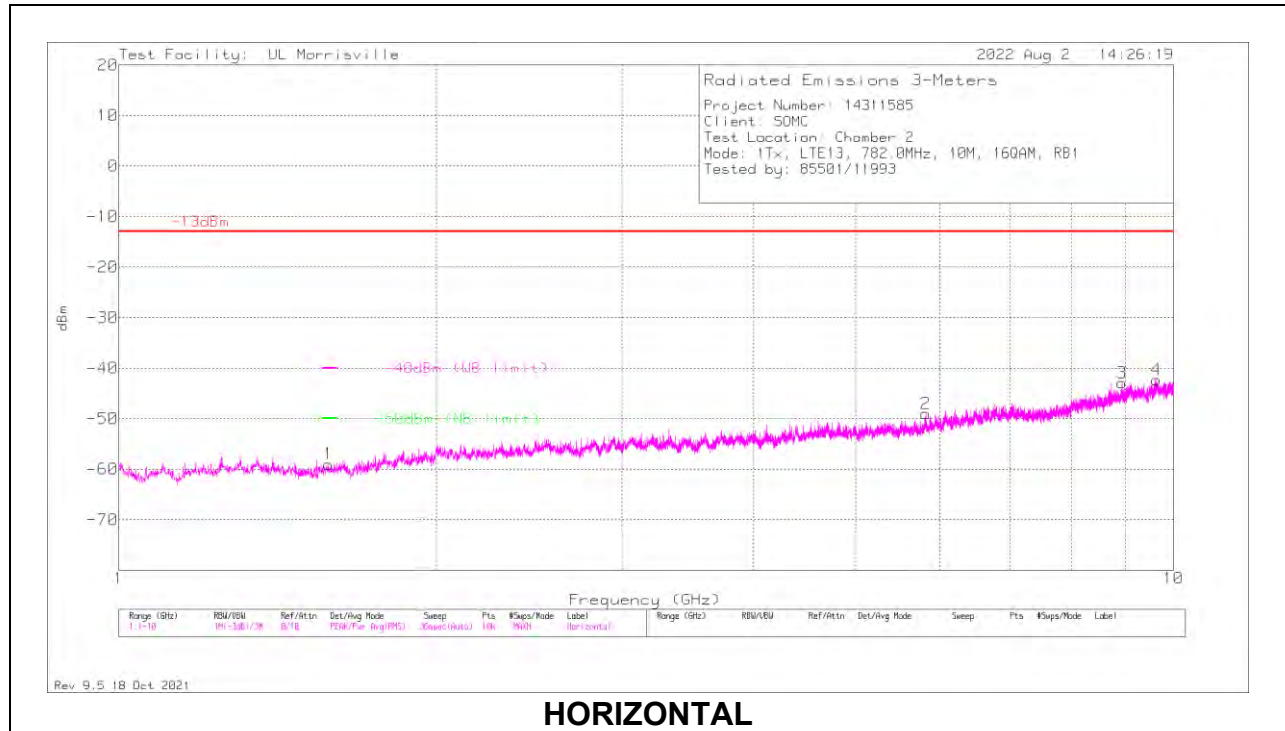
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (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
1	1.5715	-65.08	Pk	28.3	-34.5	.6	11.8	-58.88	-13	-45.88	-40	-18.88	-50	-8.88	0-360	101	H
5	1.5877	-64.84	Pk	28.6	-34.7	.6	11.8	-58.54	-13	-45.54	-40	-18.54	-50	-8.54	0-360	299	V
2	6.4837	-66.4	Pk	35.6	-28.6	.7	11.8	-46.9	-13	-33.9	-	-	-	-	0-360	101	H
6	6.4945	-66.9	Pk	35.6	-28.4	.7	11.8	-47.2	-13	-34.2	-	-	-	-	0-360	200	V
3	8.0218	-66.03	Pk	35.8	-27.1	.4	11.8	-45.13	-13	-32.13	-	-	-	-	0-360	101	H
7	8.2297	-65.38	Pk	35.7	-27.1	.4	11.8	-44.58	-13	-31.58	-	-	-	-	0-360	299	V
4	9.6103	-66.46	Pk	36.7	-25.5	.8	11.8	-42.66	-13	-29.66	-	-	-	-	0-360	101	H
8	9.883	-66.25	Pk	37	-25.6	.9	11.8	-42.15	-13	-29.15	-	-	-	-	0-360	101	V

Pk - Peak detector

16QAM

MID CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (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
1	1.5814	-65.39	Pk	28.5	-34.5	.6	11.8	-58.99	-13	-45.99	-40	-18.99	-50	-8.99	0-360	101	H
5	1.5877	-65.56	Pk	28.6	-34.7	.6	11.8	-59.26	-13	-46.26	-40	-19.26	-50	-9.26	0-360	101	V
2	5.8213	-66.44	Pk	34.8	-29.7	.5	11.8	-49.04	-13	-36.04	-	-	-	-	0-360	300	H
6	6.4999	-67	Pk	35.6	-28.4	.7	11.8	-47.3	-13	-34.3	-	-	-	-	0-360	200	V
7	8.3701	-65.46	Pk	35.8	-27.1	.4	11.8	-44.56	-13	-31.56	-	-	-	-	0-360	200	V
3	8.9407	-64.9	Pk	36.1	-26.5	.6	11.8	-42.9	-13	-29.9	-	-	-	-	0-360	199	H
4	9.6391	-65.57	Pk	36.7	-26.1	.9	11.8	-42.27	-13	-29.27	-	-	-	-	0-360	101	H
8	9.766	-65.89	Pk	36.8	-25.5	.9	11.8	-41.89	-13	-28.89	-	-	-	-	0-360	300	V

Pk - Peak detector

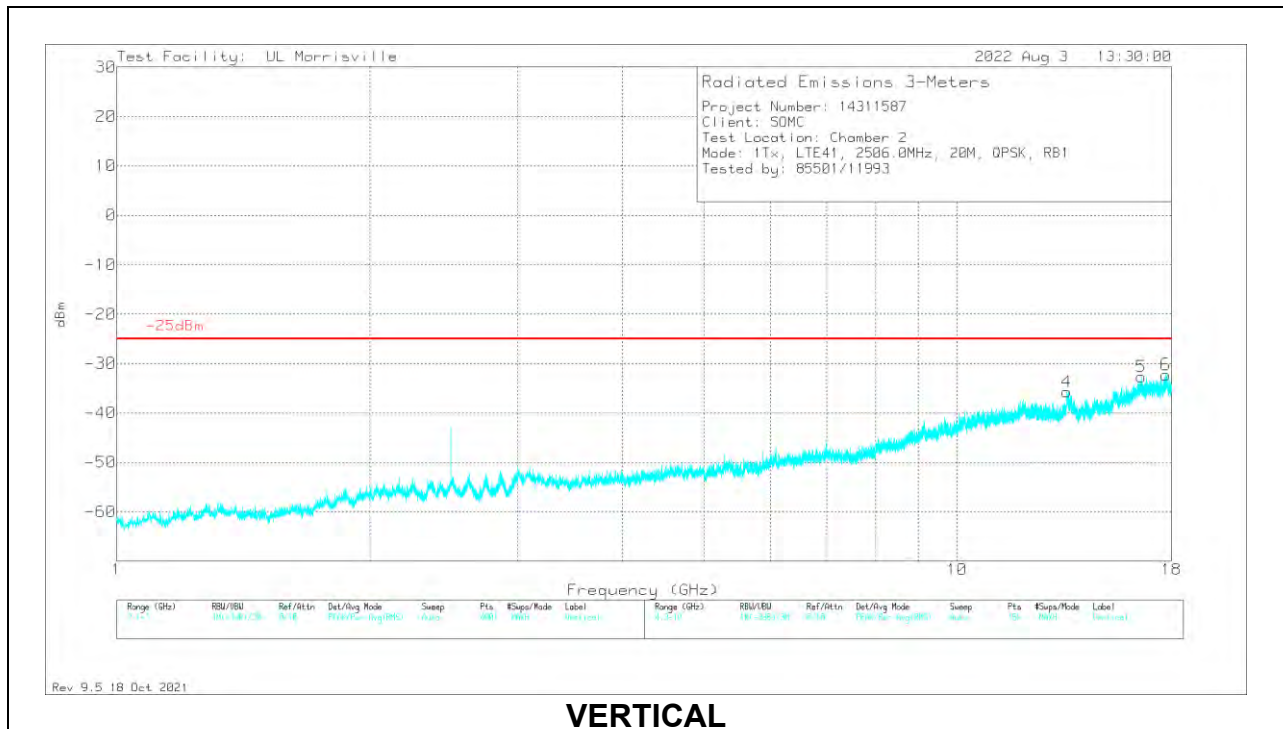
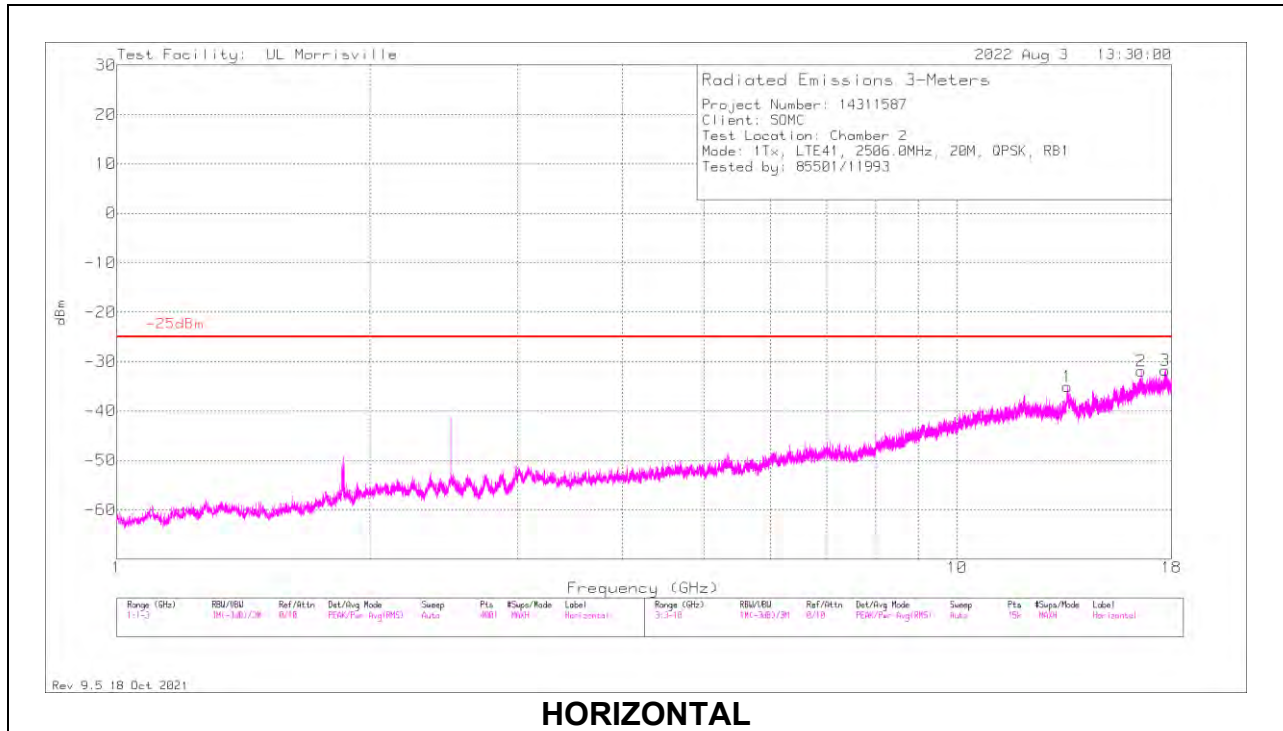
11.1.10. LTE BAND 41

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.

QPSK

LOW CHANNEL RESULTS

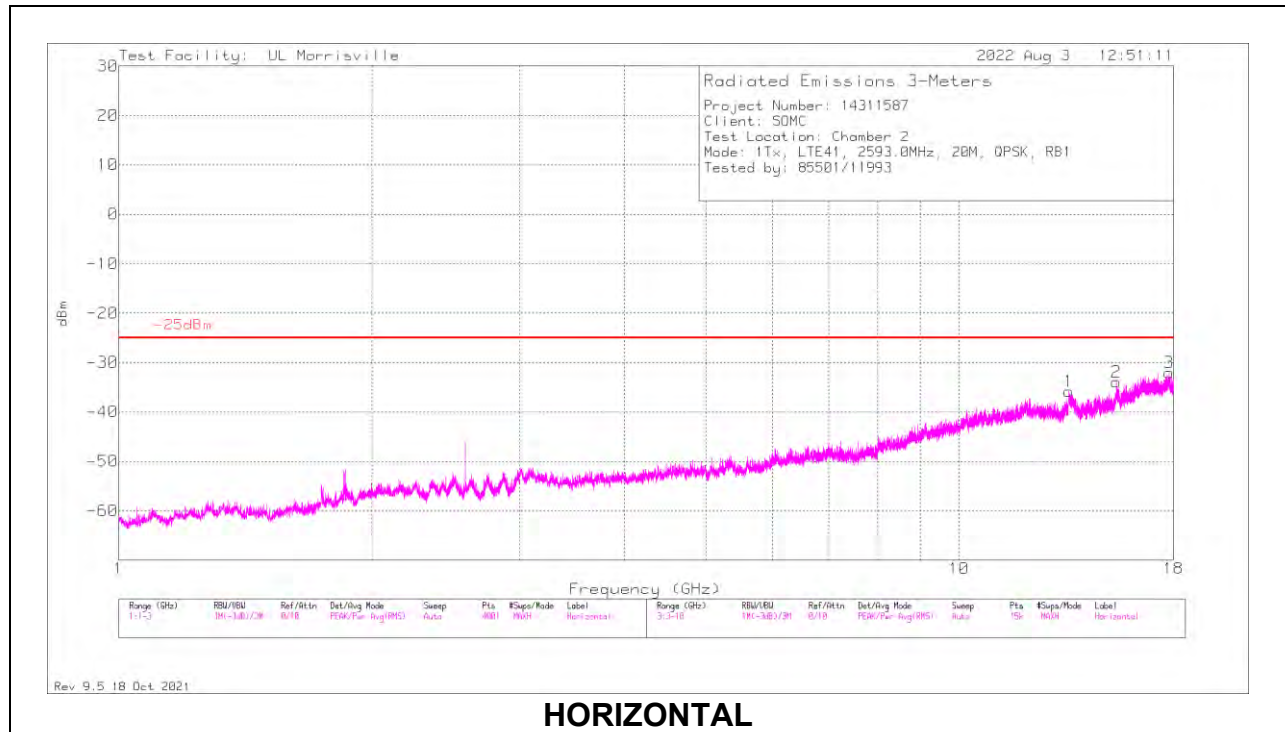


RADIATED EMISSIONS

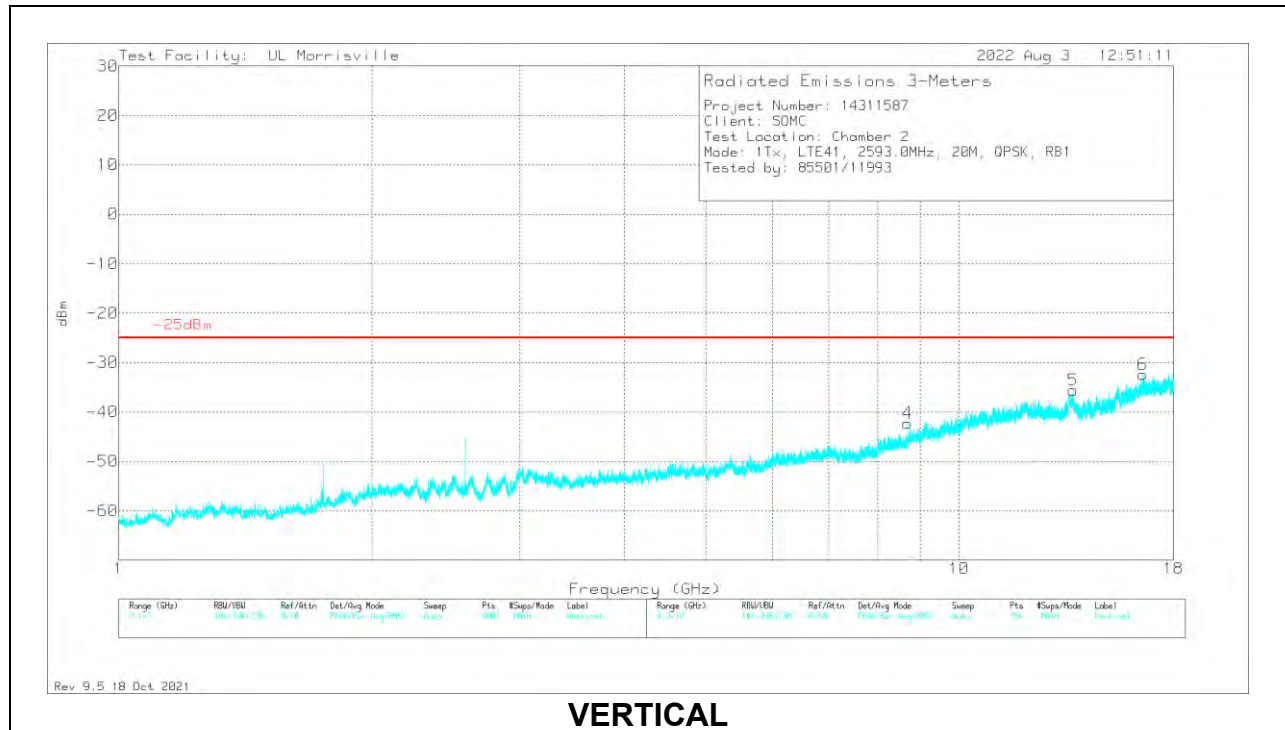
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	206211 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-25dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	13.518	-63.01	Pk	38.8	-24.2	11.8	.9	-35.71	-25	-10.71	0-360	299	V
1	13.543	-62.29	Pk	38.8	-24.2	11.8	.8	-35.09	-25	-10.09	0-360	101	H
5	16.571	-65.6	Pk	41.4	-21.3	11.8	1	-32.7	-25	-7.7	0-360	200	V
2	16.575	-65.01	Pk	41.4	-21.1	11.8	1	-31.91	-25	-6.91	0-360	299	H
3	17.707	-64.43	Pk	41.2	-21.3	11.8	1	-31.73	-25	-6.73	0-360	199	H
6	17.709	-65.03	Pk	41.2	-21.2	11.8	1	-32.23	-25	-7.23	0-360	200	V

Pk - Peak detector

MID CHANNEL RESULTS



HORIZONTAL



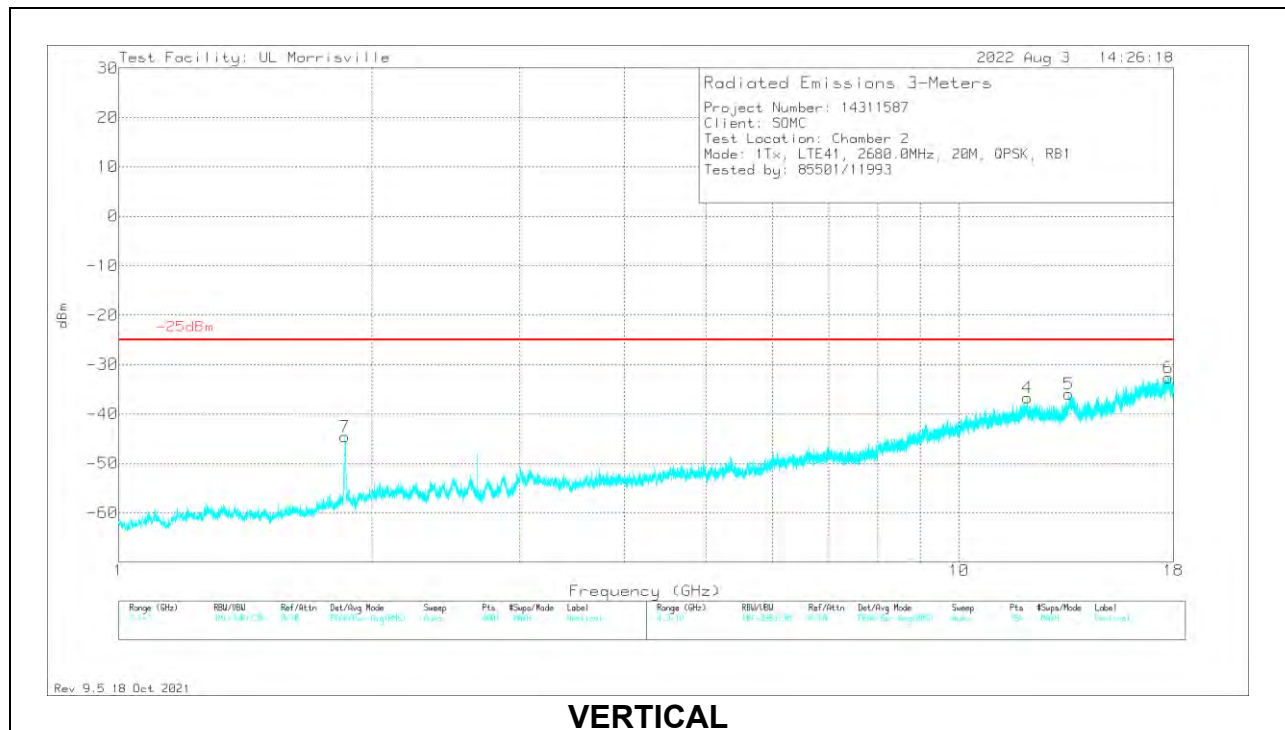
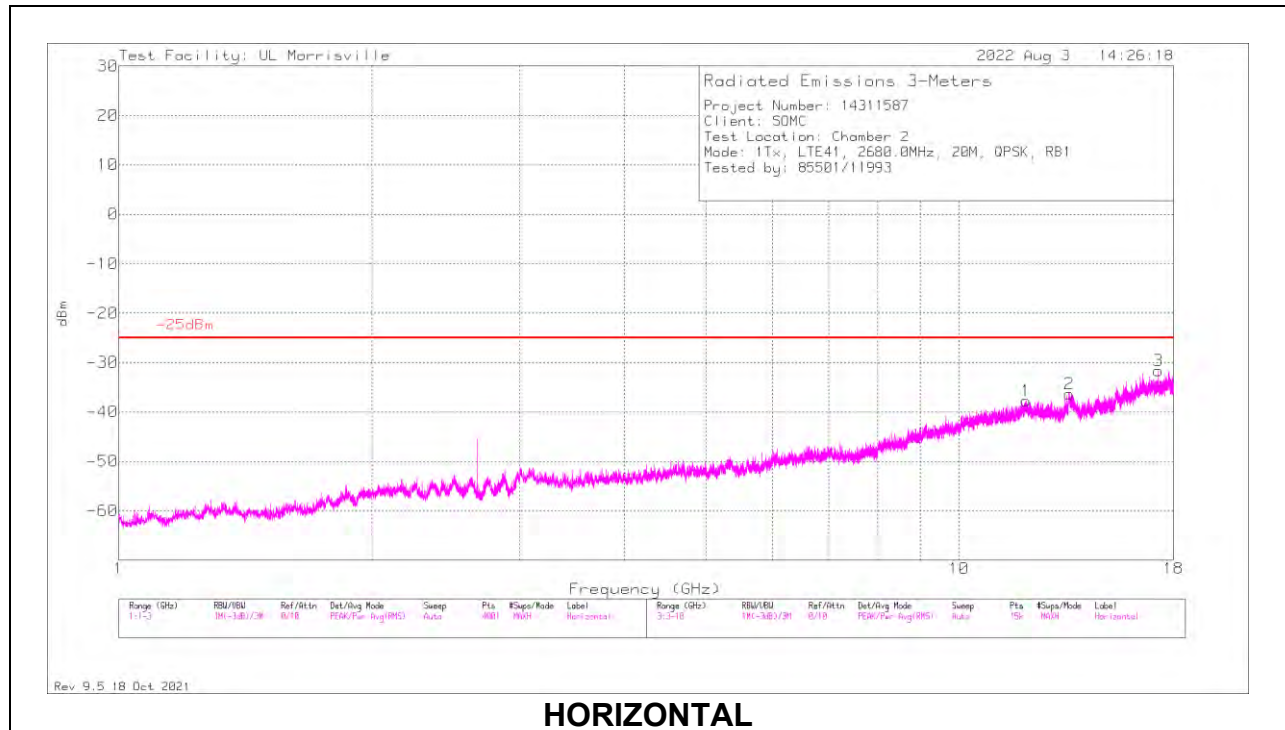
VERTICAL

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	8.687	-64.56	Pk	36	-26	11.8	.5	-42.26	-25	-17.26	0-360	299	V
1	13.504	-63.35	Pk	38.8	-23.9	11.8	.8	-35.85	-25	-10.85	0-360	200	H
5	13.669	-62.8	Pk	38.7	-24.1	11.8	.8	-35.6	-25	-10.6	0-360	200	V
2	15.384	-65.42	Pk	40.1	-21.2	11.8	.8	-33.92	-25	-8.92	0-360	101	H
6	16.555	-64.99	Pk	41.4	-21.6	11.8	1	-32.39	-25	-7.39	0-360	200	V
3	17.779	-65.81	Pk	41.2	-20.3	11.8	1.1	-32.01	-25	-7.01	0-360	200	H

Pk - Peak detector

HIGH CHANNEL RESULTS



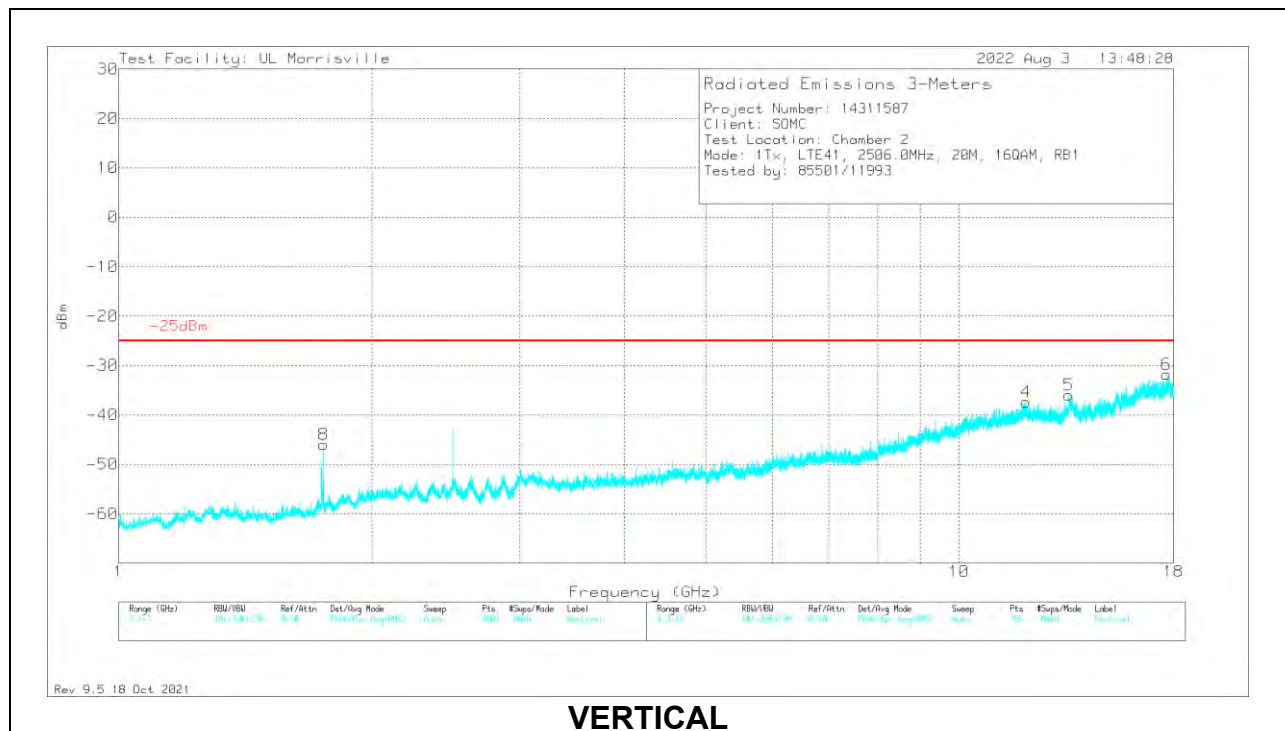
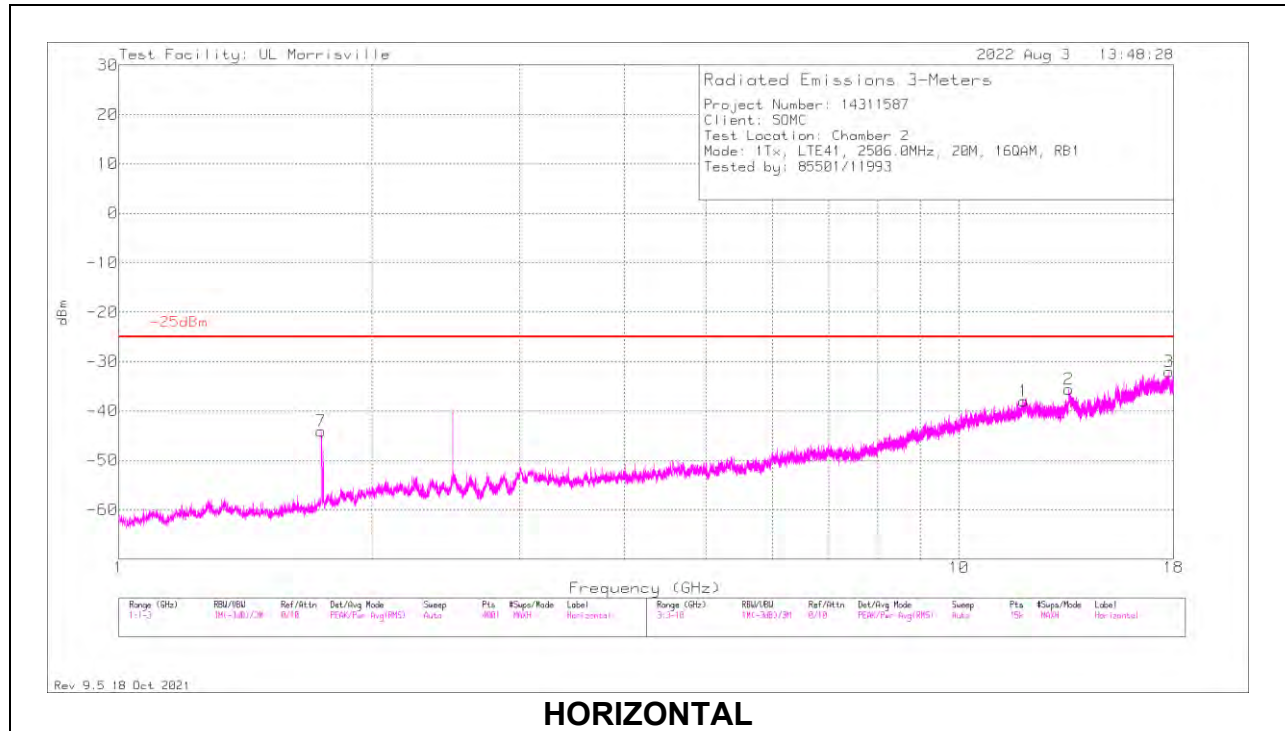
RADIATED EMISSIONS

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
7	1.86	-53.73	Pk	30.5	-34.2	11.8	1	-44.63	-25	-19.63	0-360	101	V
1	12.022	-66.36	Pk	38.6	-22.5	11.8	.7	-37.76	-25	-12.76	0-360	199	H
4	12.056	-64.89	Pk	38.6	-22.8	11.8	.5	-36.79	-25	-11.79	0-360	200	V
5	13.516	-63.29	Pk	38.8	-24.2	11.8	.9	-35.99	-25	-10.99	0-360	299	V
2	13.528	-63.45	Pk	38.8	-24.3	11.8	.8	-36.35	-25	-11.35	0-360	101	H
3	17.273	-63.76	Pk	41.1	-21.8	11.8	1	-31.66	-25	-6.66	0-360	199	H
6	17.748	-65.85	Pk	41.2	-20.8	11.8	1	-32.65	-25	-7.65	0-360	101	V

Pk - Peak detector

16QAM

LOW CHANNEL RESULTS

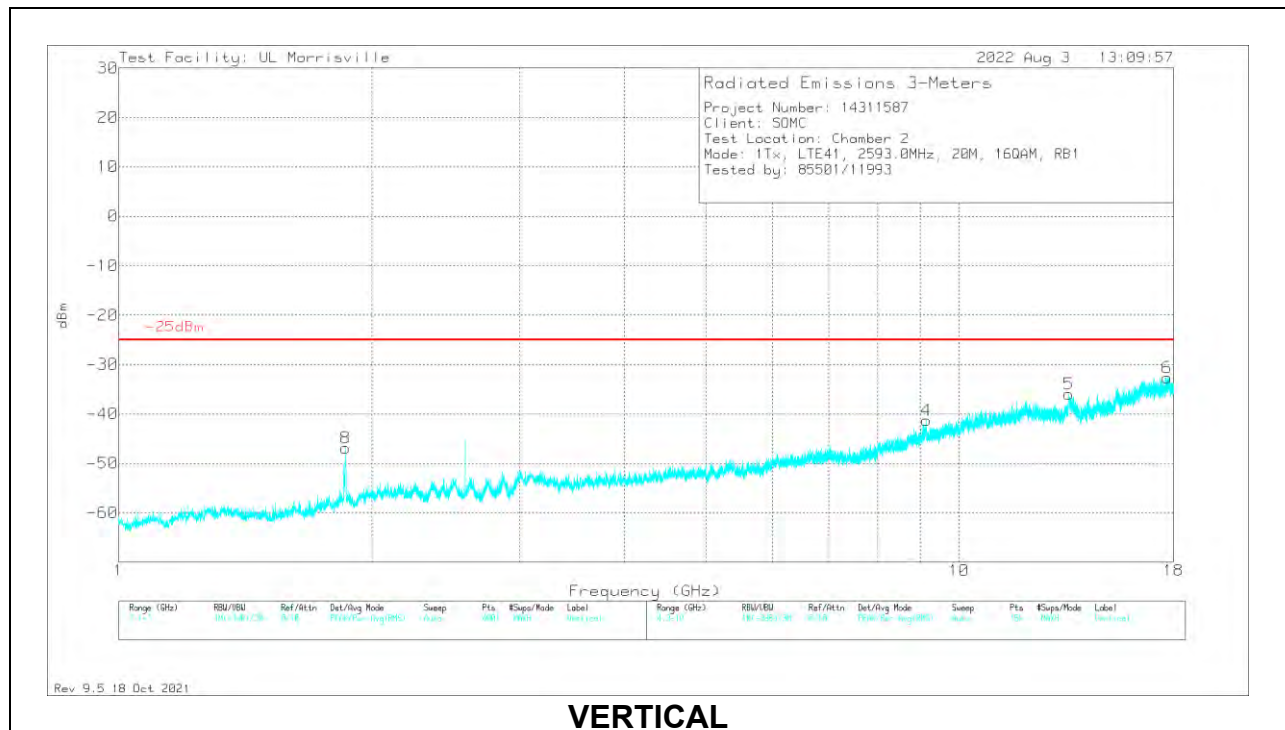
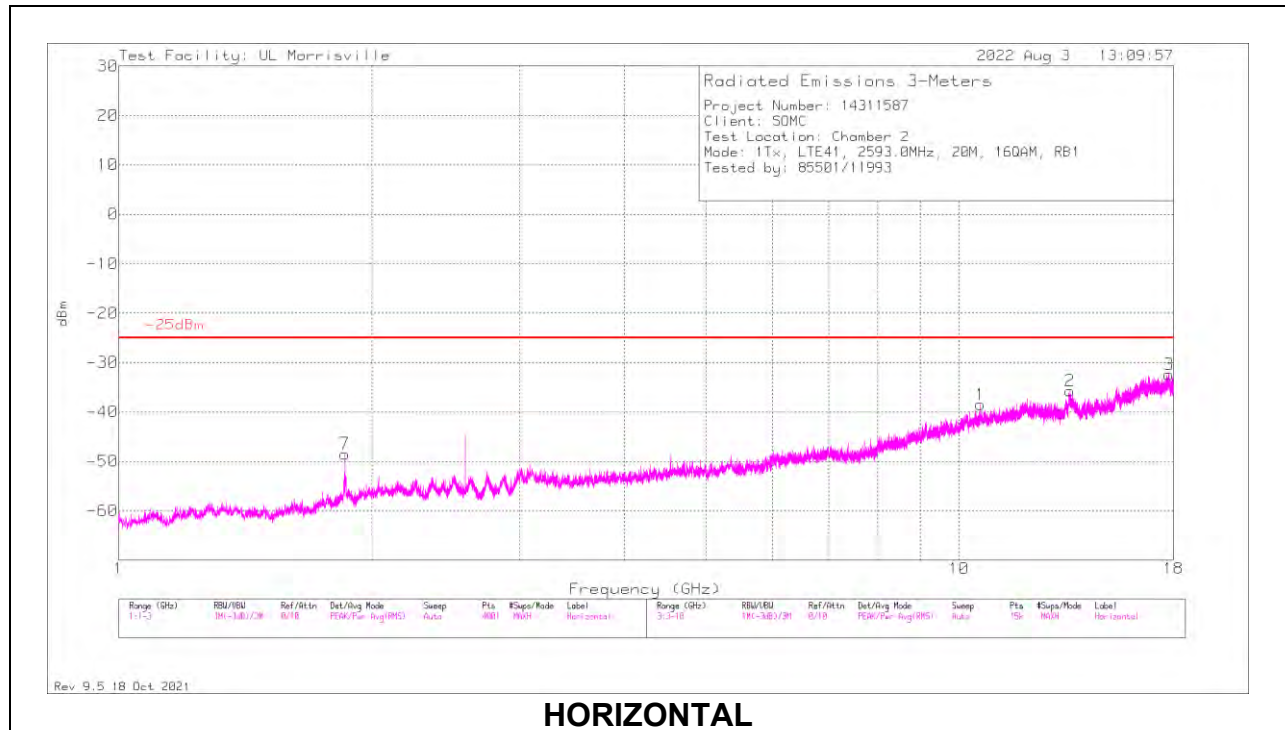


RADIATED EMISSIONS

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
7	1.7425	-51.47	Pk	29.3	-34.6	11.8	.9	-44.07	-25	-19.07	0-360	200	H
8	1.753	-53.61	Pk	29.5	-34.6	11.8	.9	-46.01	-25	-21.01	0-360	200	V
1	11.936	-65.28	Pk	38.5	-23.6	11.8	.6	-37.98	-25	-12.98	0-360	300	H
4	12.028	-65.91	Pk	38.6	-22.5	11.8	.6	-37.41	-25	-12.41	0-360	200	V
2	13.505	-63.08	Pk	38.8	-23.9	11.8	.8	-35.58	-25	-10.58	0-360	101	H
5	13.519	-63.32	Pk	38.8	-24.2	11.8	.9	-36.02	-25	-11.02	0-360	300	V
6	17.663	-63.89	Pk	41.2	-21.9	11.8	1	-31.79	-25	-6.79	0-360	101	V
3	17.775	-65.96	Pk	41.2	-20.2	11.8	1.1	-32.06	-25	-7.06	0-360	300	H

Pk - Peak detector

MID CHANNEL RESULTS

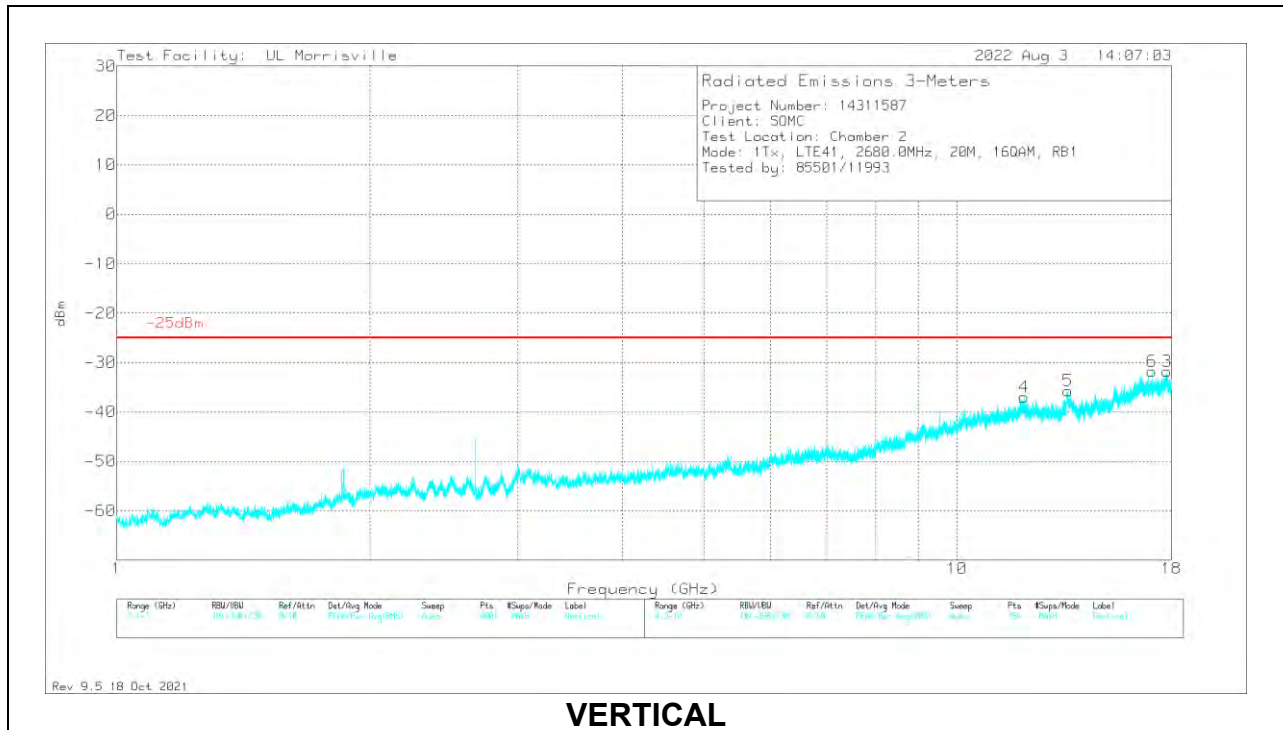
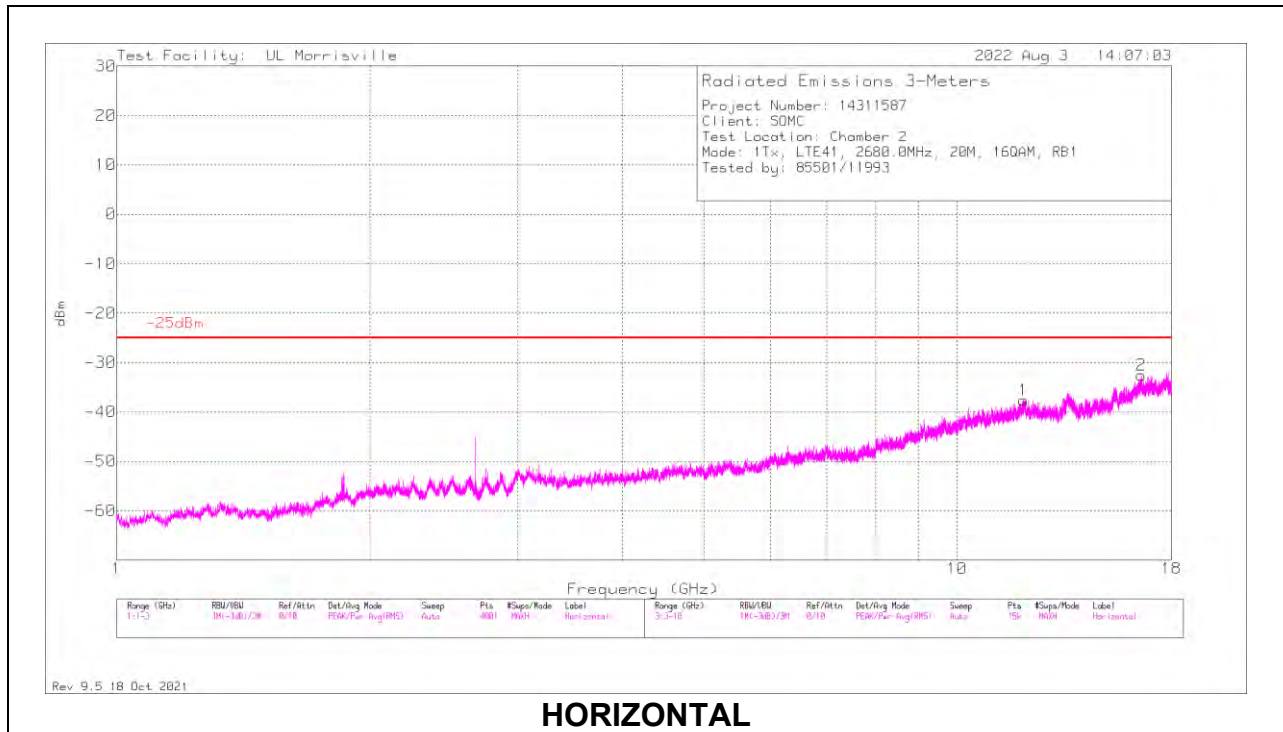


RADIATED EMISSIONS

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
7	1.859	-57.48	Pk	30.5	-34.3	11.8	1	-48.48	-25	-23.48	0-360	300	H
8	1.8615	-56.03	Pk	30.5	-34.2	11.8	1	-46.93	-25	-21.93	0-360	300	V
4	9.144	-64.57	Pk	36.2	-25.3	11.8	.6	-41.27	-25	-16.27	0-360	300	V
1	10.61	-65.26	Pk	37.6	-23.6	11.8	1	-38.46	-25	-13.46	0-360	200	H
5	13.52	-63.32	Pk	38.8	-24.2	11.8	.9	-36.02	-25	-11.02	0-360	300	V
2	13.557	-62.91	Pk	38.8	-24.1	11.8	.7	-35.71	-25	-10.71	0-360	200	H
6	17.679	-65.1	Pk	41.2	-21.6	11.8	1	-32.7	-25	-7.7	0-360	200	V
3	17.77	-65.9	Pk	41.2	-20.5	11.8	1	-32.4	-25	-7.4	0-360	200	H

Pk - Peak detector

HIGH CHANNEL RESULTS



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	11.992	-65.73	Pk	38.6	-23.1	11.8	.8	-37.63	-25	-12.63	0-360	101	H
4	12.019	-65.37	Pk	38.6	-22.7	11.8	.7	-36.97	-25	-11.97	0-360	101	V
5	13.556	-62.88	Pk	38.8	-24.1	11.8	.7	-35.68	-25	-10.68	0-360	299	V
2	16.583	-65.44	Pk	41.5	-21.4	11.8	1	-32.54	-25	-7.54	0-360	200	H
6	17.055	-64.9	Pk	41.6	-21.3	11.8	1	-31.8	-25	-6.8	0-360	101	V
3	17.793	-65.04	Pk	41.2	-20.9	11.8	1.1	-31.84	-25	-6.84	0-360	299	V

Pk - Peak detector

11.2. WORST CASE EMISSIONS

RULE PART(S)

FCC: §2.1053, §22.917, §24.238, §27.53.

LIMITS

FCC: §22.917(a), §24.238(a), §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.

TEST PROCEDURE

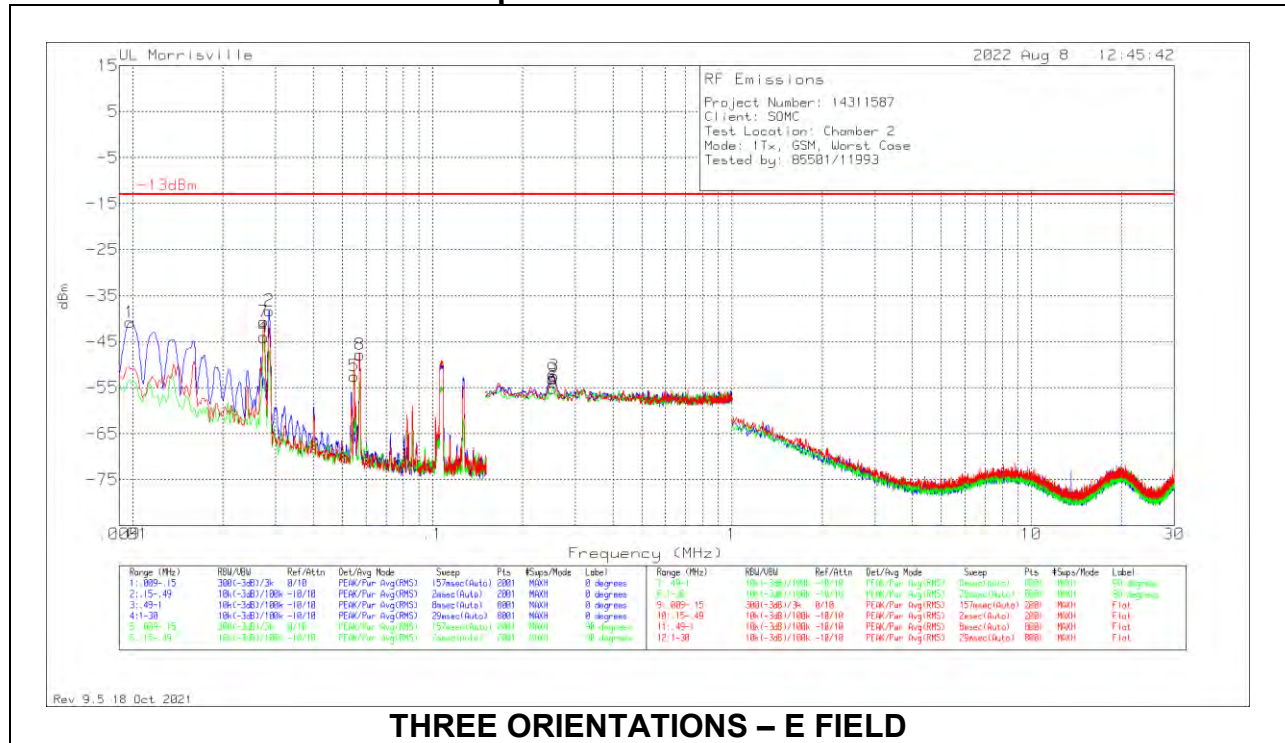
KDB 971168 D01 v02r02/D02 v01

RESULTS

11.2.1. Worst-Case Emissions for 2G

GSM 850 GPRS Mode

Spurious Below 30MHz



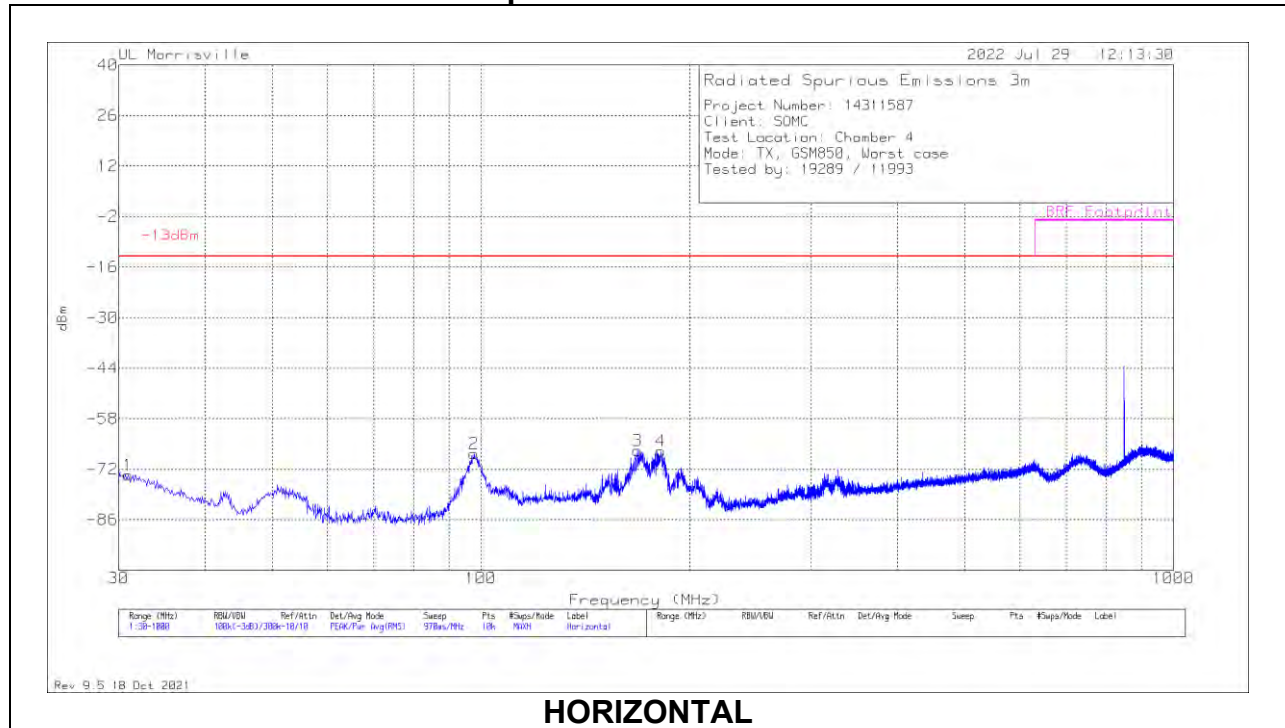
THREE ORIENTATIONS – E FIELD

RADIATED EMISSIONS

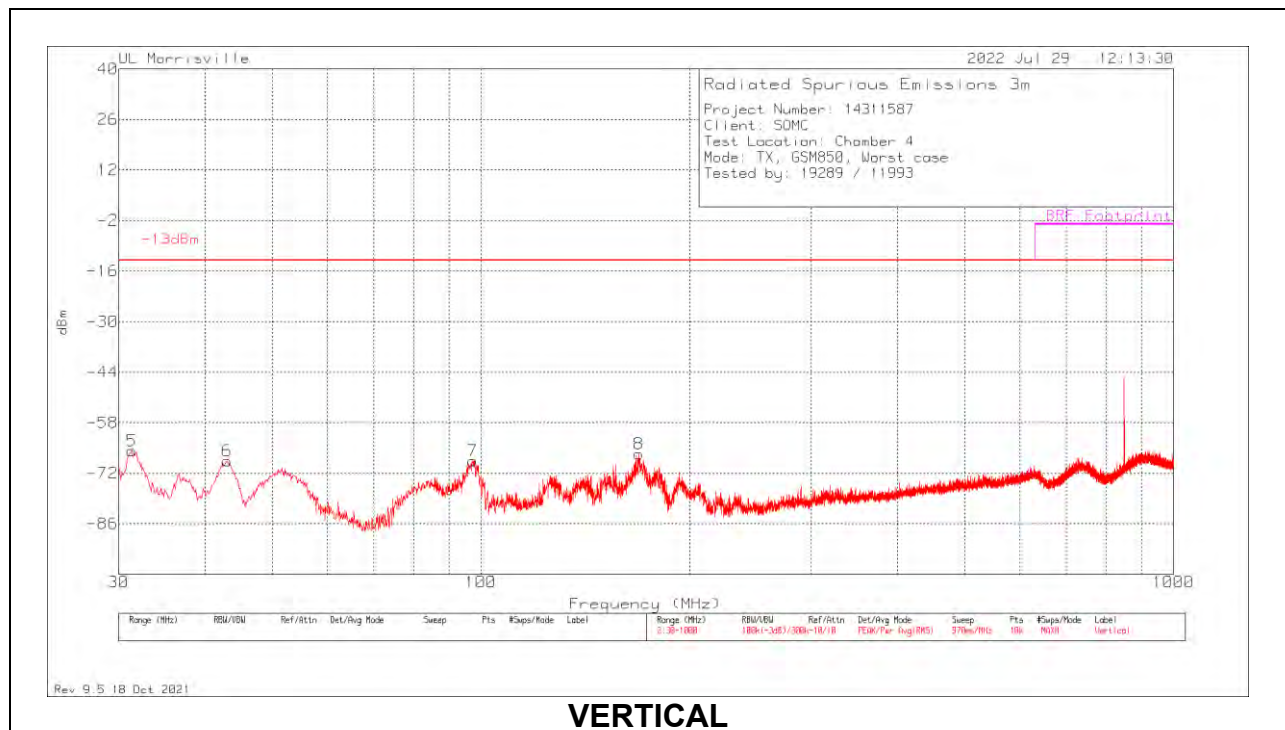
Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0037 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Loop Angle
1	.00978	-81.54	Pk	60.7	-31.8	11.8	-40.84	-13	-27.84	0-360	400	0 degs
4	.02732	-81.8	Pk	58.3	-32.3	11.8	-44	-13	-31	0-360	400	90 degs
7	.02732	-78.49	Pk	58.3	-32.3	11.8	-40.69	-13	-27.69	0-360	400	Flat
2	.02853	-76	Pk	58.2	-32.3	11.8	-38.3	-13	-25.3	0-360	400	0 degs
5	.0548	-88.21	Pk	56.7	-32.8	11.8	-52.51	-13	-39.51	0-360	400	90 degs
8	.05714	-83.33	Pk	56.5	-32.8	11.8	-47.83	-13	-34.83	0-360	400	Flat
9	.25183	-88.38	Pk	56.2	-32.8	11.8	-53.18	-13	-40.18	0-360	400	Flat
6	.2526	-90.33	Pk	56.2	-32.8	11.8	-55.13	-13	-42.13	0-360	400	90 degs
3	.25421	-87.7	Pk	56.2	-32.8	11.8	-52.5	-13	-39.5	0-360	400	0 degs

Pk - Peak detector

Spurious Below 1GHz



HORIZONTAL



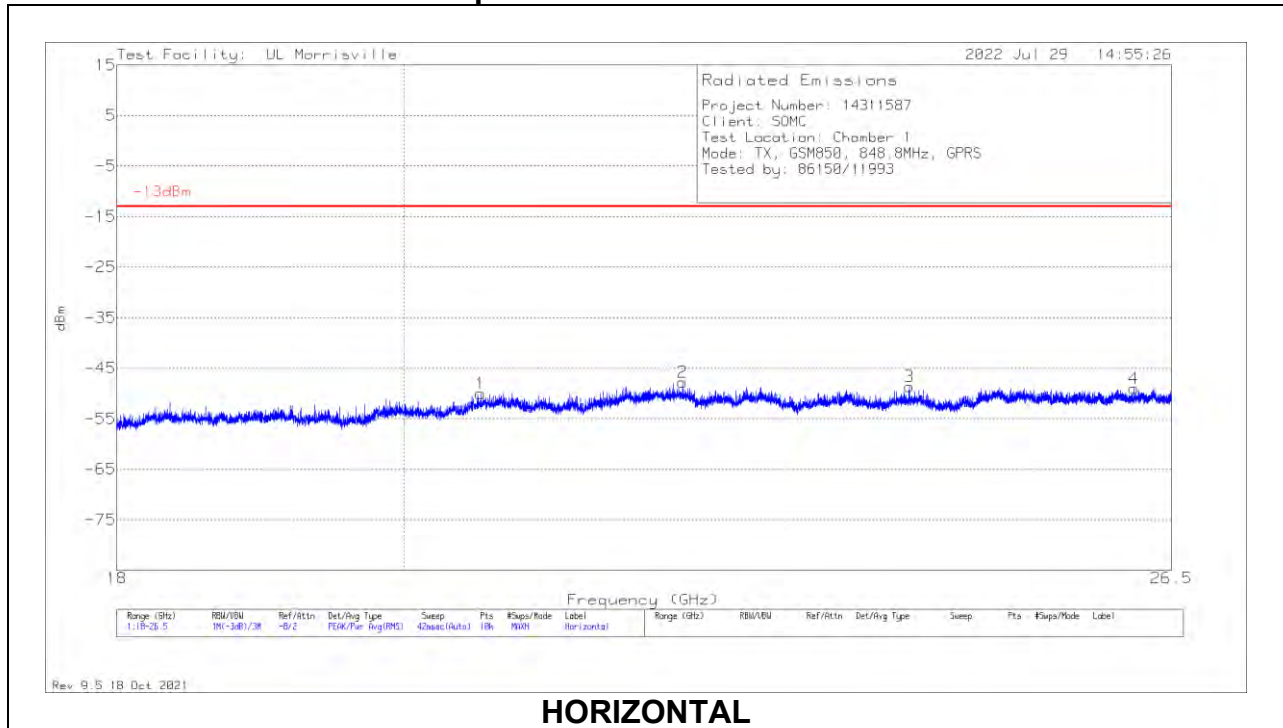
VERTICAL

RADIATED EMISSIONS

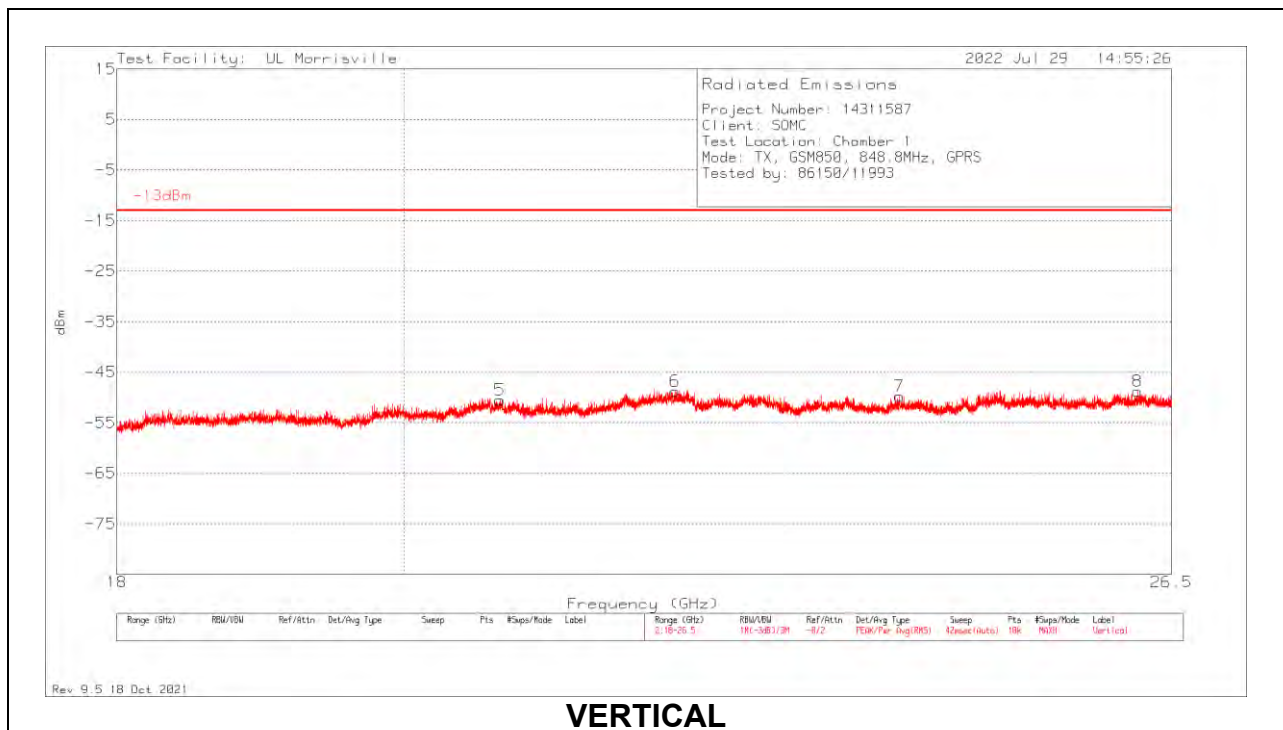
Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0081 (dB/m)	Gain/Loss (dB)	Filter (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	30.97	-77.9	Pk	26.3	-31.8	.1	9.7	-73.6	-13	-60.6	0-360	300	H
5	31.358	-70.08	Pk	26.2	-31.8	.1	9.7	-65.88	-13	-52.88	0-360	100	V
6	42.998	-64.67	Pk	17.7	-31.4	.1	9.7	-68.57	-13	-55.57	0-360	100	V
7	97.415	-63.62	Pk	15.8	-30.7	.3	9.7	-68.52	-13	-55.52	0-360	100	V
2	97.803	-62.93	Pk	15.9	-30.7	.3	9.7	-67.73	-13	-54.73	0-360	200	H
3	168.225	-64.98	Pk	18.2	-30.2	.4	9.7	-66.88	-13	-53.88	0-360	100	H
8	169.001	-64.8	Pk	18.1	-30.1	.4	9.7	-66.7	-13	-53.7	0-360	100	V
4	181.999	-64.95	Pk	17.5	-29.8	.6	9.7	-66.95	-13	-53.95	0-360	100	H

Pk - Peak detector

Spurious 18GHz to 26GHz



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

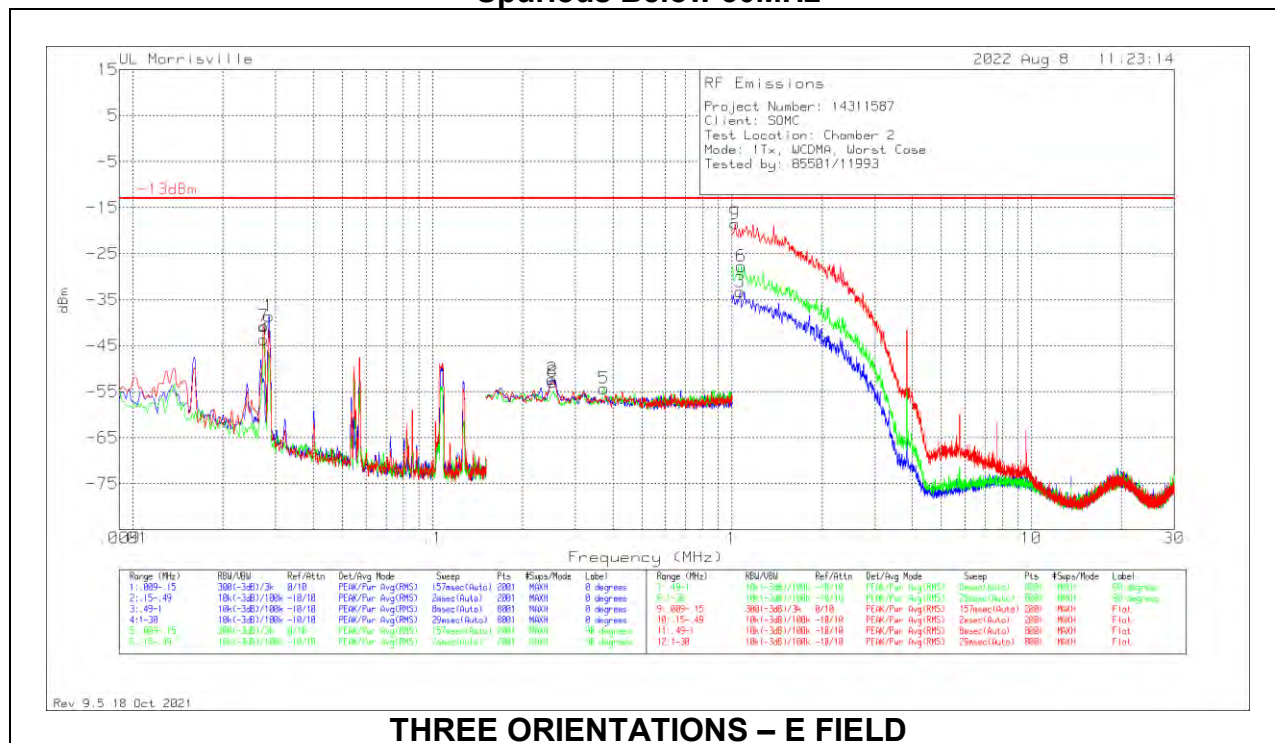
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	ANT (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	20.56844	-56.61	Pk	33.9	-39.1	11.8	-50.01	-13	-37.01	0-360	101	H
5	20.71548	-57.06	Pk	33.9	-39.2	11.8	-50.56	-13	-37.56	0-360	300	V
6	22.08894	-58.22	Pk	37	-39.4	11.8	-48.82	-13	-35.82	0-360	251	V
2	22.14929	-56.94	Pk	37	-39.6	11.8	-47.74	-13	-34.74	0-360	299	H
7	23.98425	-57.84	Pk	35	-38.7	11.8	-49.74	-13	-36.74	0-360	150	V
3	24.07094	-56.61	Pk	35	-38.9	11.8	-48.71	-13	-35.71	0-360	150	H
4	26.13624	-58.46	Pk	35.4	-37.8	11.8	-49.06	-13	-36.06	0-360	150	H
8	26.17448	-58.38	Pk	35.4	-37.6	11.8	-48.78	-13	-35.78	0-360	150	V

Pk - Peak detector

11.2.2. Worst-Case Emissions for 3G

WCDMA 5 REL 99 Mode

Spurious Below 30MHz



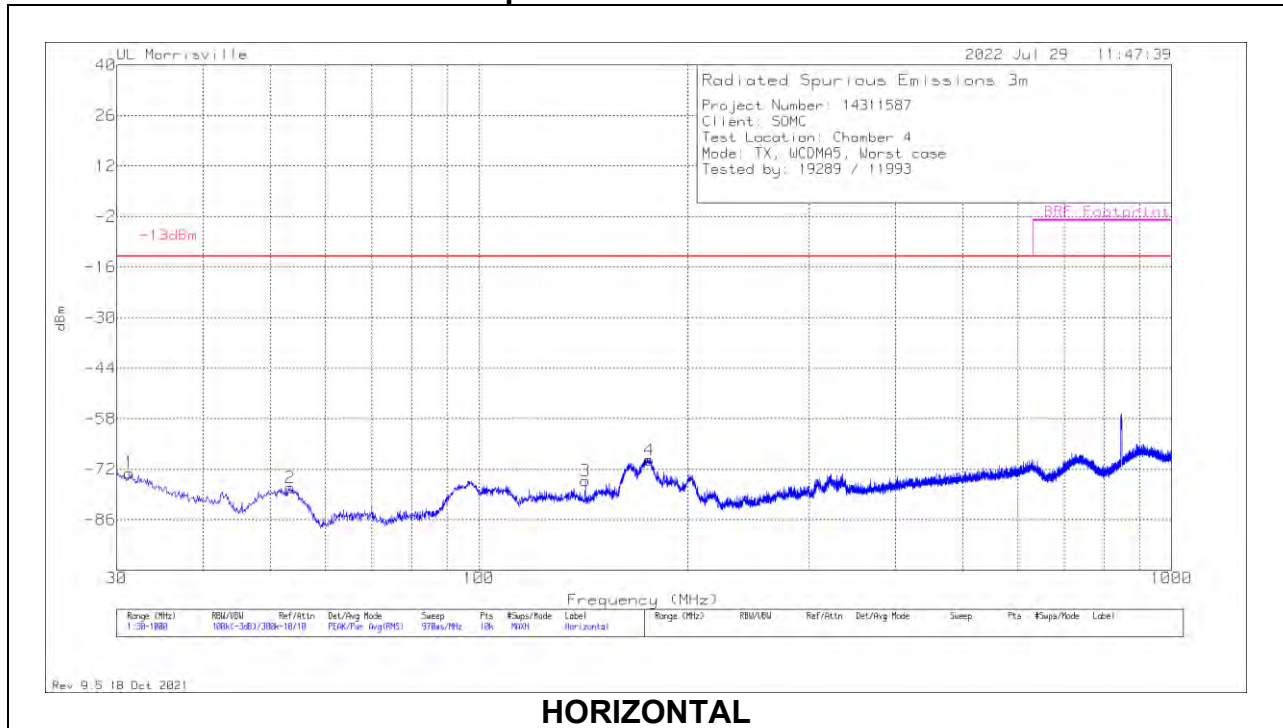
THREE ORIENTATIONS – E FIELD

RADIATED EMISSIONS

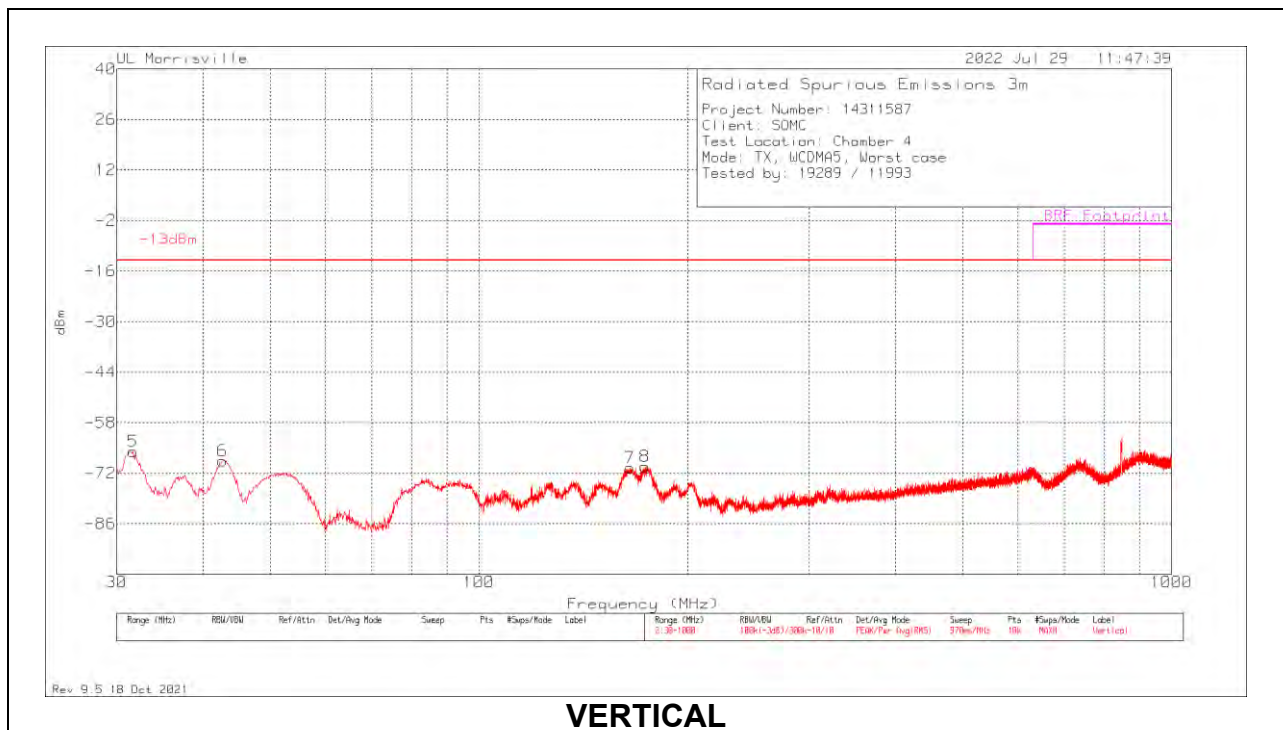
Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0037 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Loop Angle
4	.02732	-81.43	Pk	58.3	-32.3	11.8	-43.63	-13	-30.63	0-360	400	90 degs
7	.02732	-78.59	Pk	58.3	-32.3	11.8	-40.79	-13	-27.79	0-360	400	Flat
1	.02845	-76.26	Pk	58.2	-32.3	11.8	-38.56	-13	-25.56	0-360	400	0 degs
2	.25264	-87.44	Pk	56.2	-32.8	11.8	-52.24	-13	-39.24	0-360	400	0 degs
8	.25226	-88.12	Pk	56.2	-32.8	11.8	-52.92	-13	-39.92	0-360	400	Flat
5	.37398	-89.39	Pk	56.1	-32.8	11.8	-54.29	-13	-41.29	0-360	400	90 degs
9	1.00744	-43.91	Pk	46.8	-32.7	11.8	-18.01	-13	-5.01	4	100	Flat
3	1.06525	-58.85	Pk	46.5	-32.7	11.8	-33.25	-13	-20.25	0-360	400	0 degs
6	1.07613	-53.24	Pk	46.4	-32.7	11.8	-27.74	-13	-14.74	0-360	400	90 degs

Pk - Peak detector

Spurious Below 1GHz



HORIZONTAL



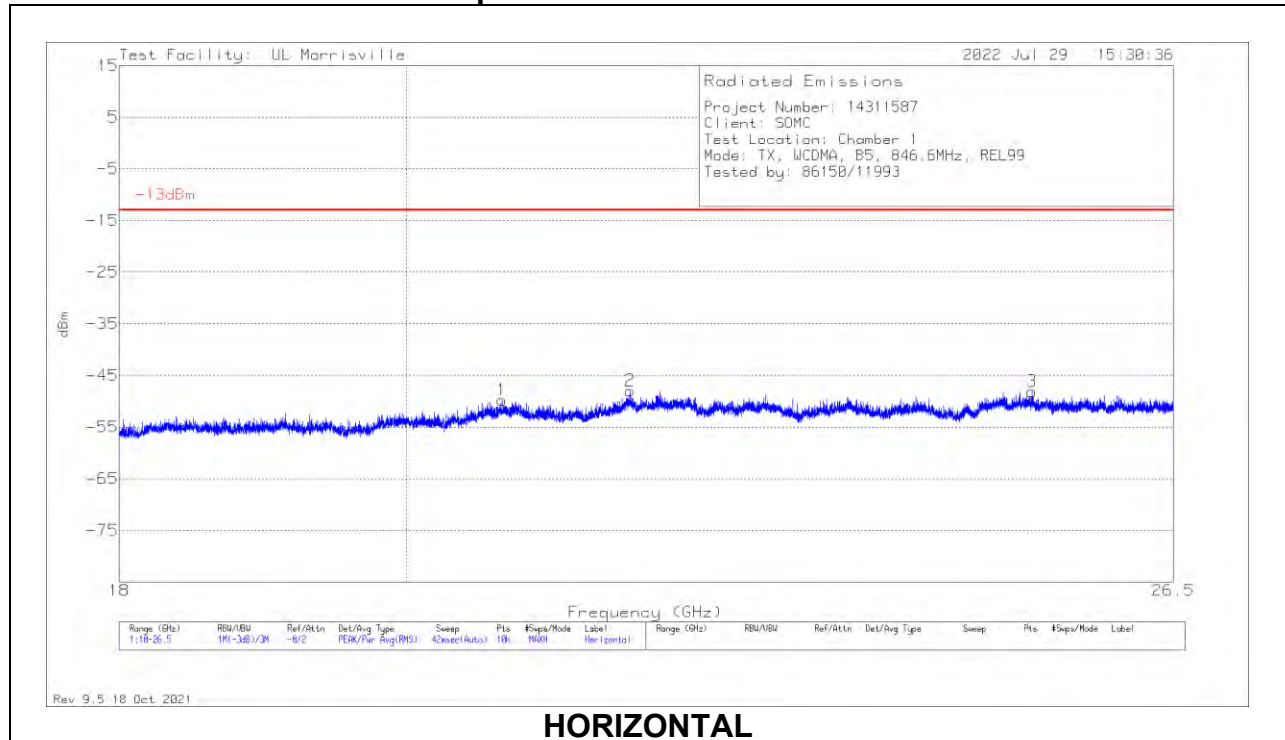
VERTICAL

RADIATED EMISSIONS

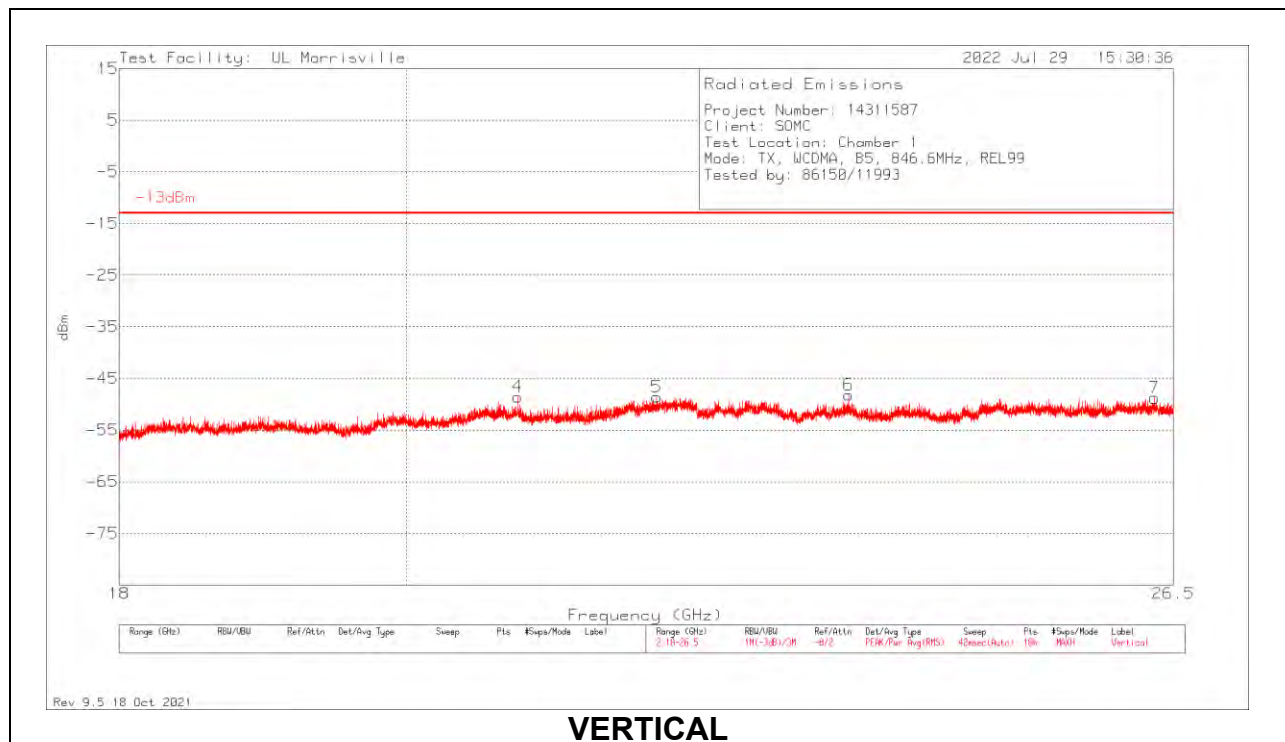
Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0081 (dB/m)	Gain/Loss (dB)	Filter (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	31.261	-77.22	Pk	26.2	-31.8	.1	9.7	-73.02	-13	-60.02	0-360	100	H
5	31.649	-69.93	Pk	26	-31.8	.1	9.7	-65.93	-13	-52.93	0-360	100	V
6	42.61	-64.97	Pk	18	-31.4	.1	9.7	-68.57	-13	-55.57	0-360	100	V
2	53.377	-68.99	Pk	13.4	-31.4	.2	9.7	-77.09	-13	-64.09	0-360	300	H
3	142.423	-74.22	Pk	19.1	-30.3	.6	9.7	-75.12	-13	-62.12	0-360	100	H
7	165.315	-68.88	Pk	18.4	-30.2	.4	9.7	-70.58	-13	-57.58	0-360	100	V
8	173.754	-68.08	Pk	17.8	-29.9	.4	9.7	-70.08	-13	-57.08	0-360	100	V
4	176.373	-67.16	Pk	17.7	-30.2	.5	9.7	-69.46	-13	-56.46	0-360	100	H

Pk - Peak detector

Spurious 18GHz to 26GHz



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

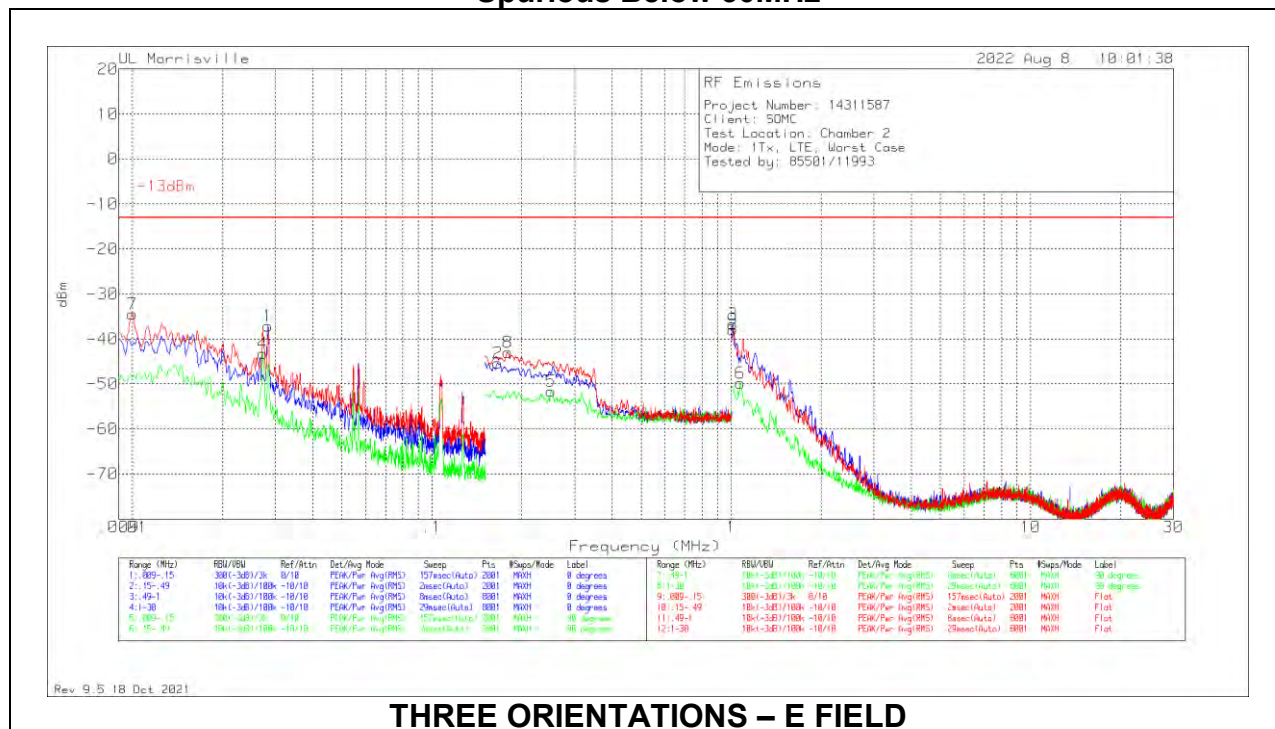
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	ANT (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	20.71463	-56.29	Pk	33.9	-39.2	11.8	-49.79	-13	-36.79	0-360	250	H
4	20.83447	-55.36	Pk	34.1	-39.1	11.8	-48.56	-13	-35.56	0-360	151	V
2	21.71073	-56.74	Pk	35.4	-38.4	11.8	-47.94	-13	-34.94	0-360	101	H
5	21.92491	-57.72	Pk	36.6	-39.3	11.8	-48.62	-13	-35.62	0-360	300	V
6	23.5236	-56.29	Pk	35	-38.7	11.8	-48.19	-13	-35.19	0-360	250	V
3	25.16053	-57.19	Pk	35.2	-37.9	11.8	-48.09	-13	-35.09	0-360	101	H
7	26.31557	-59.17	Pk	35.5	-36.9	11.8	-48.77	-13	-35.77	0-360	200	V

Pk - Peak detector

11.2.3. Worst-Case Emissions for 4G

LTE 12 16QAM Mode

Spurious Below 30MHz



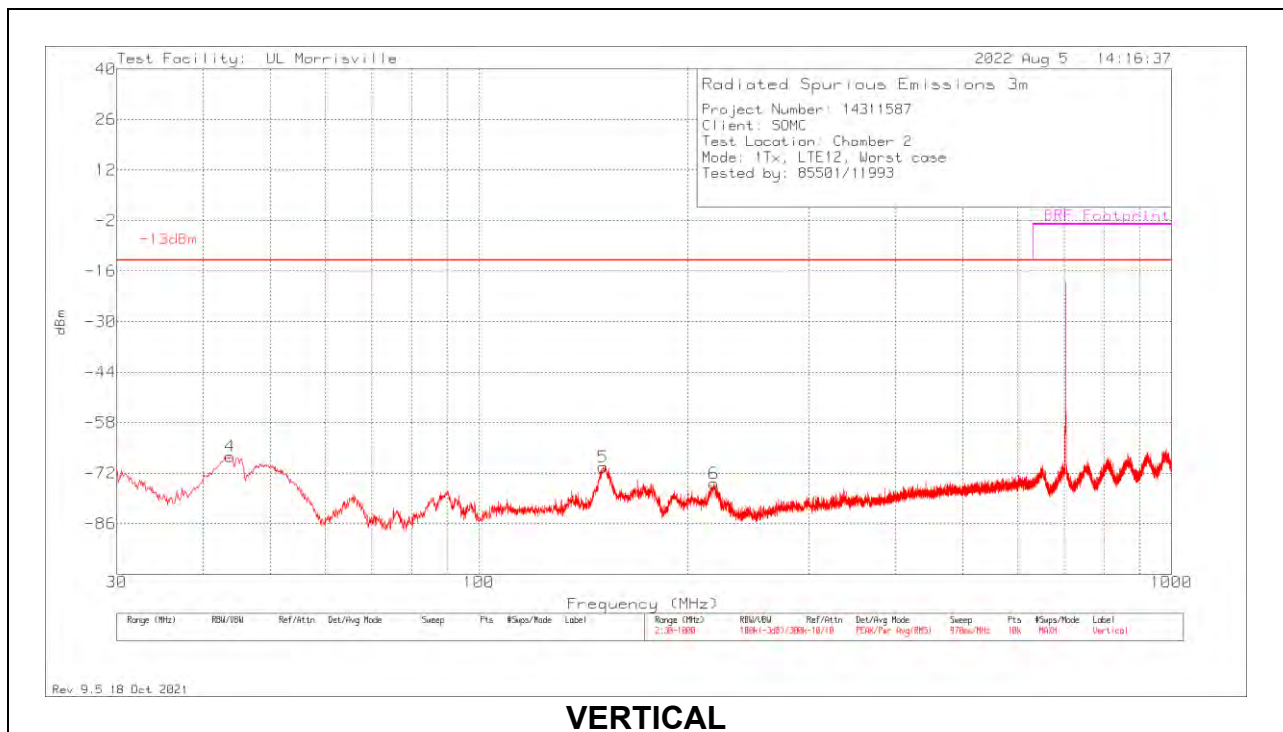
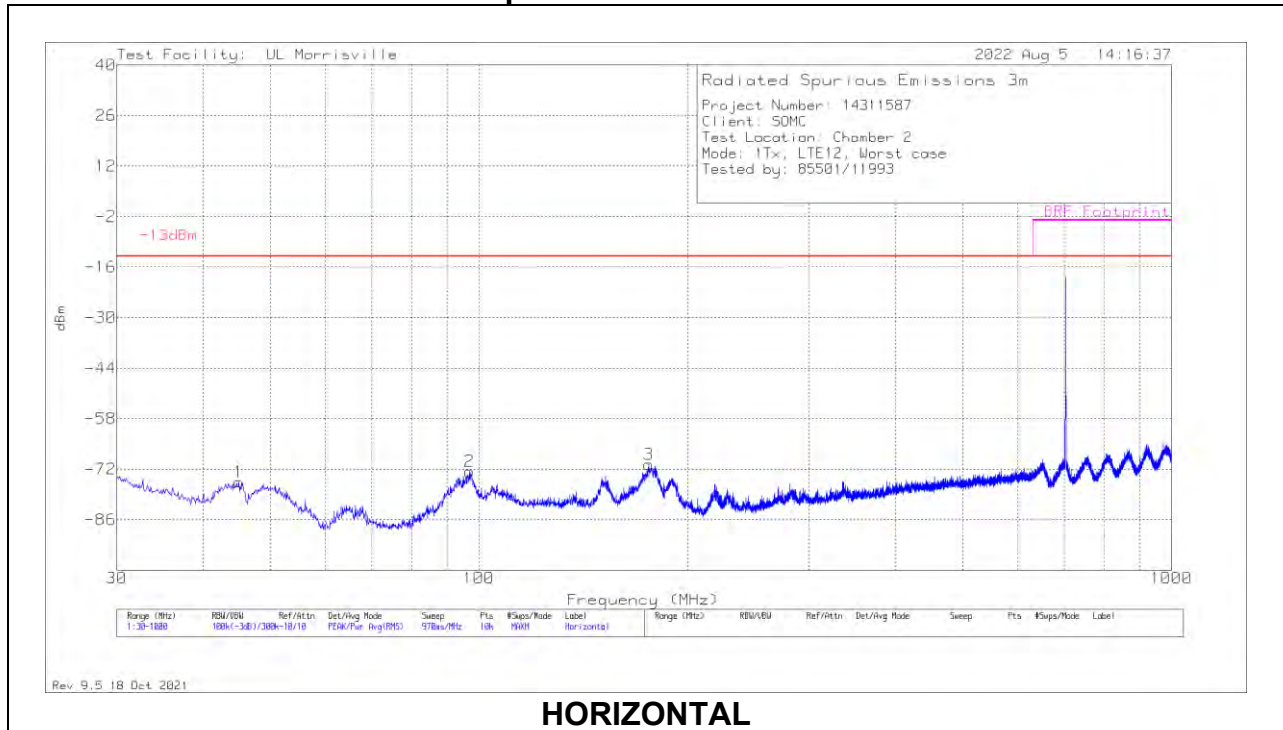
THREE ORIENTATIONS – E FIELD

RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0037 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Loop Angle
7	.00999	-75	Pk	60.5	-31.8	11.8	-34.5	-13	-21.5	0-360	400	Flat
4	.02725	-81.06	Pk	58.3	-32.3	11.8	-43.26	-13	-30.26	0-360	400	90 degs
1	.02838	-74.82	Pk	58.2	-32.3	11.8	-37.12	-13	-24.12	0-360	400	0 degs
2	.16624	-80.41	Pk	56	-32.8	11.8	-45.41	-13	-32.41	0-360	400	0 degs
8	.17907	-78.13	Pk	56.1	-32.8	11.8	-43.03	-13	-30.03	0-360	400	Flat
5	.25081	-86.82	Pk	56.2	-32.8	11.8	-51.62	-13	-38.62	0-360	400	90 degs
3	1.01088	-62.61	Pk	46.8	-32.7	11.8	-36.71	-13	-23.71	0-360	400	0 degs
9	1.0145	-63.87	Pk	46.8	-32.7	11.8	-37.97	-13	-24.97	0-360	400	Flat
6	1.0725	-75.41	Pk	46.5	-32.7	11.8	-49.81	-13	-36.81	0-360	400	90 degs

Pk - Peak detector

Spurious Below 1GHz

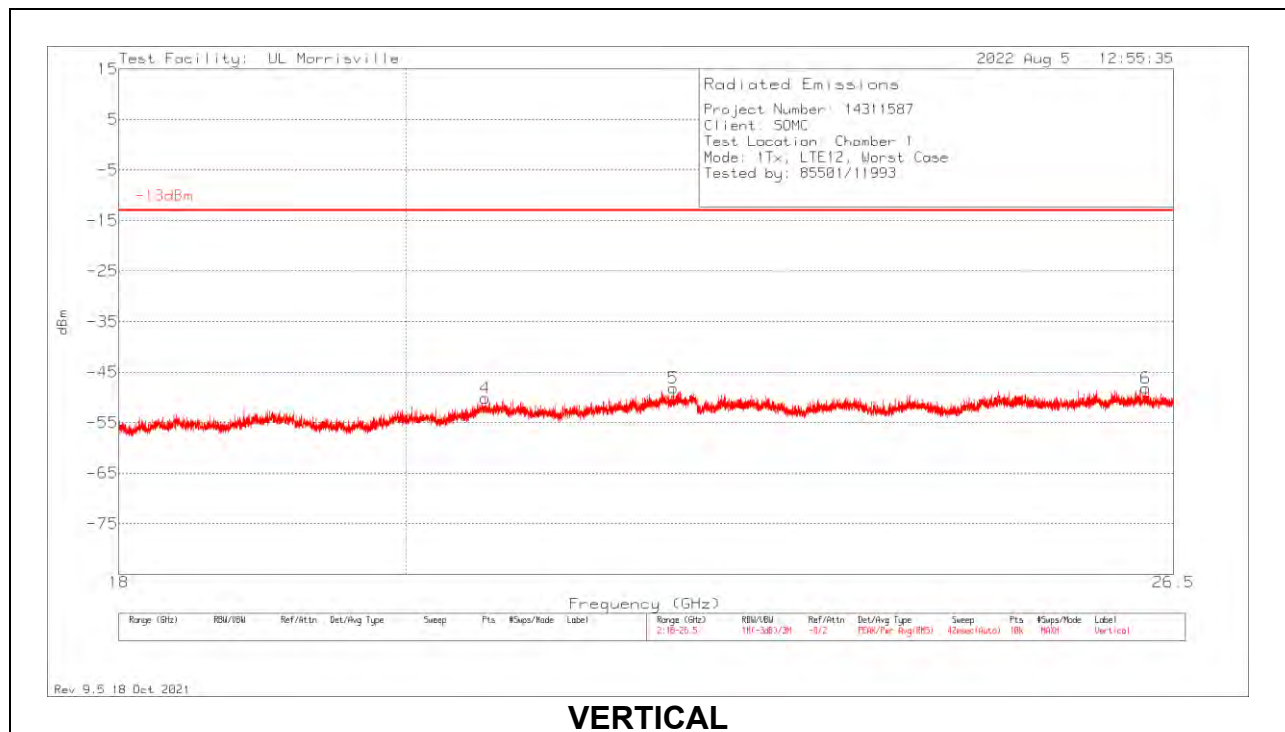
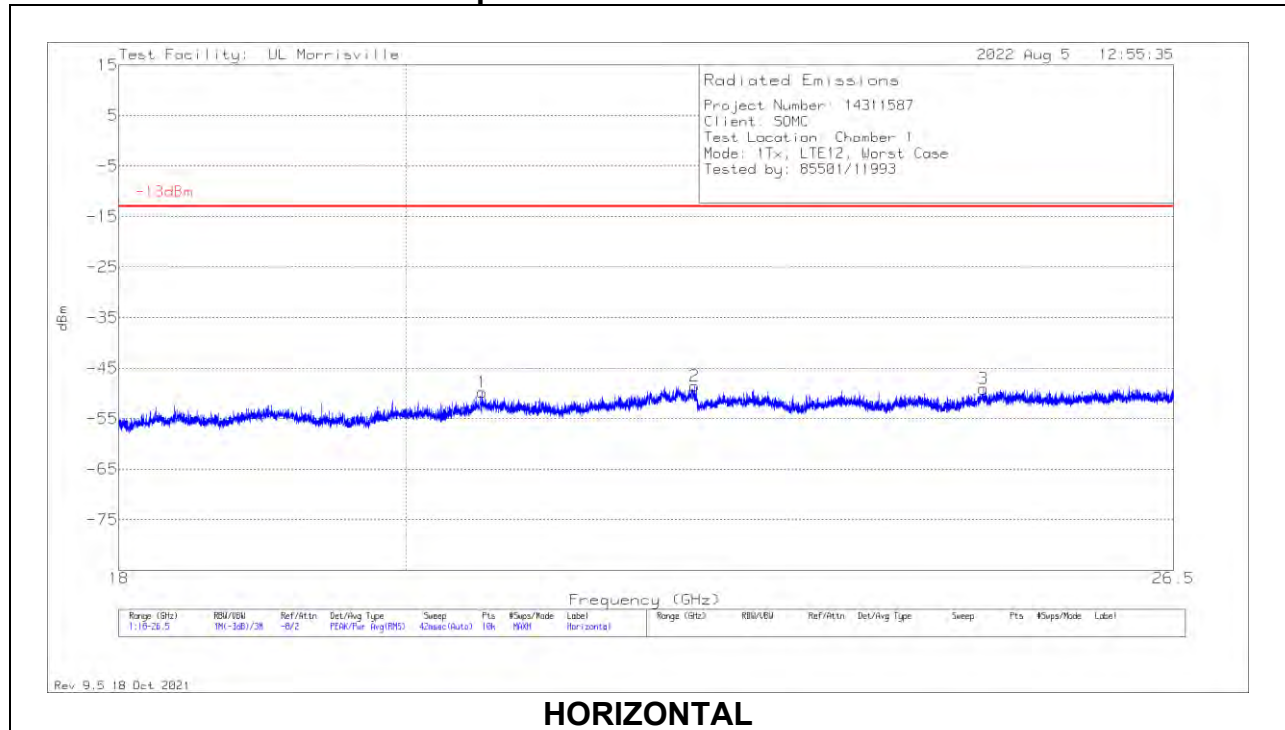


RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AT0073 (dB/m)	Gain/Loss (dB)	Filter (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	43.774	-62.97	Pk	17.1	-31.4	.2	9.7	-67.37	-13	-54.37	0-360	101	V
1	45.035	-70.66	Pk	16.3	-31.1	.2	9.7	-75.56	-13	-62.56	0-360	399	H
2	97.027	-67.67	Pk	15.5	-30.5	.3	9.7	-72.67	-13	-59.67	0-360	299	H
5	150.959	-69.17	Pk	18.6	-29.9	.5	9.7	-70.27	-13	-57.27	0-360	101	V
3	176.082	-68.64	Pk	17.5	-29.7	.5	9.7	-70.64	-13	-57.64	0-360	199	H
6	218.374	-72.23	Pk	16.6	-29.3	.4	9.7	-74.83	-13	-61.83	0-360	101	V

Pk - Peak detector

Spurious 18GHz to 26GHz



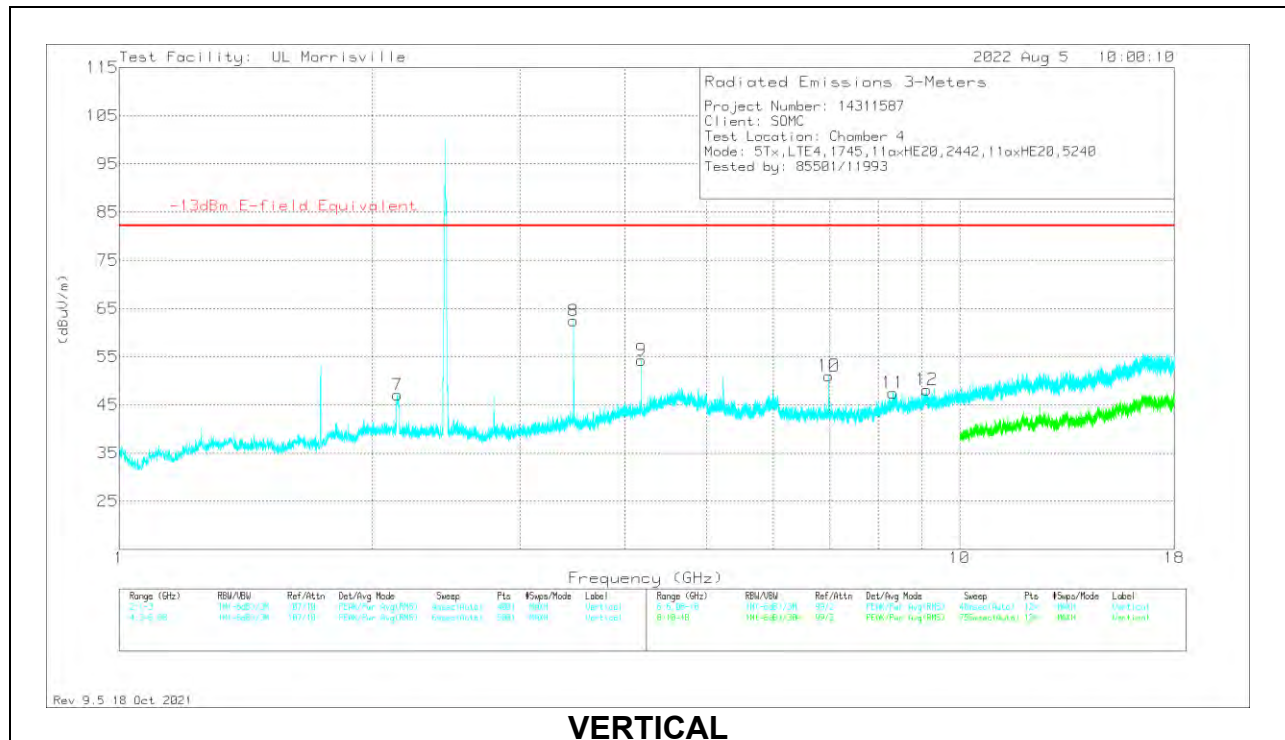
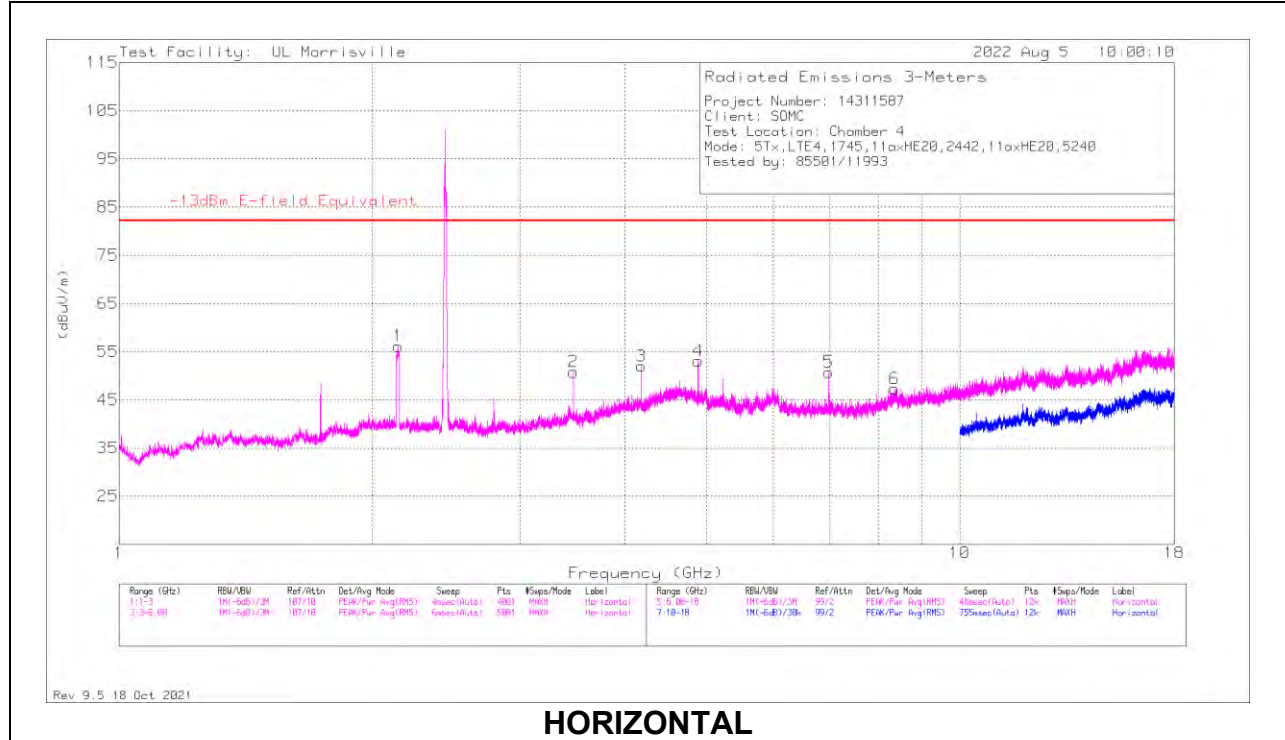
RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0063 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	20.56504	-57.17	Pk	33.9	-38.3	11.8	-49.77	-13	-36.77	0-360	250	H
4	20.58969	-57.46	Pk	33.9	-38.4	11.8	-50.16	-13	-37.16	0-360	199	V
5	22.06174	-58.66	Pk	37	-38.3	11.8	-48.16	-13	-35.16	0-360	149	V
2	22.23343	-58.87	Pk	36.8	-38.3	11.8	-48.57	-13	-35.57	0-360	200	H
3	24.71773	-58.99	Pk	35.1	-37	11.8	-49.09	-13	-36.09	0-360	200	H
6	26.23143	-59.11	Pk	35.4	-36.2	11.8	-48.11	-13	-35.11	0-360	101	V

Pk - Peak detector

11.3. Simultaneous Transmission

11.3.1. LTE Band 4, 20300, 1745MHz, 20MHz, 1RB and 2442MHz 11ax HE20 26T/8 C0/C1 and 5240MHz C0/C1 HE20 26T/0



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	Filter (dB)	Corrected Reading (dBuV/m)	-13dBm E-field Equivalent (dBuV)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	** 2.1465 (DL)	46.92	Pk	31.5	-23.3	1	-	-	-	0-360	199	H
7	** 2.142 (DL)	37.96	Pk	31.5	-23.4	1	-	-	-	0-360	101	V
3	*** 4.17779	39.09	Pk	33.2	-21	.7	51.99	82.2	-30.21	0-360	101	H
4	*** 4.88496	39.94	Pk	33.9	-21.9	1.1	53.04	82.2	-29.16	0-360	101	H
9	*** 4.17779	41.39	Pk	33.2	-21	.7	54.29	82.2	-27.91	0-360	101	V
6	*** 8.36765	37.53	Pk	35.8	-26.6	.6	47.33	82.2	-34.87	0-360	101	H
11	*** 8.32891	38.2	Pk	35.8	-27.2	.7	47.5	82.2	-34.7	0-360	199	V
12	*** 9.13748	37.16	Pk	36.2	-25.7	.5	48.16	82.2	-34.04	0-360	199	V
2	3.47247	38.6	Pk	32.6	-20.8	.4	-	-	-	0-360	101	H
8	3.47247	50.24	Pk	32.6	-20.8	.4	-	-	-	0-360	101	V
5	6.98592	41.85	Pk	35.6	-27.5	.8	-	-	-	0-360	101	H
10	6.98592	42.12	Pk	35.6	-27.5	.8	-	-	-	0-360	101	V

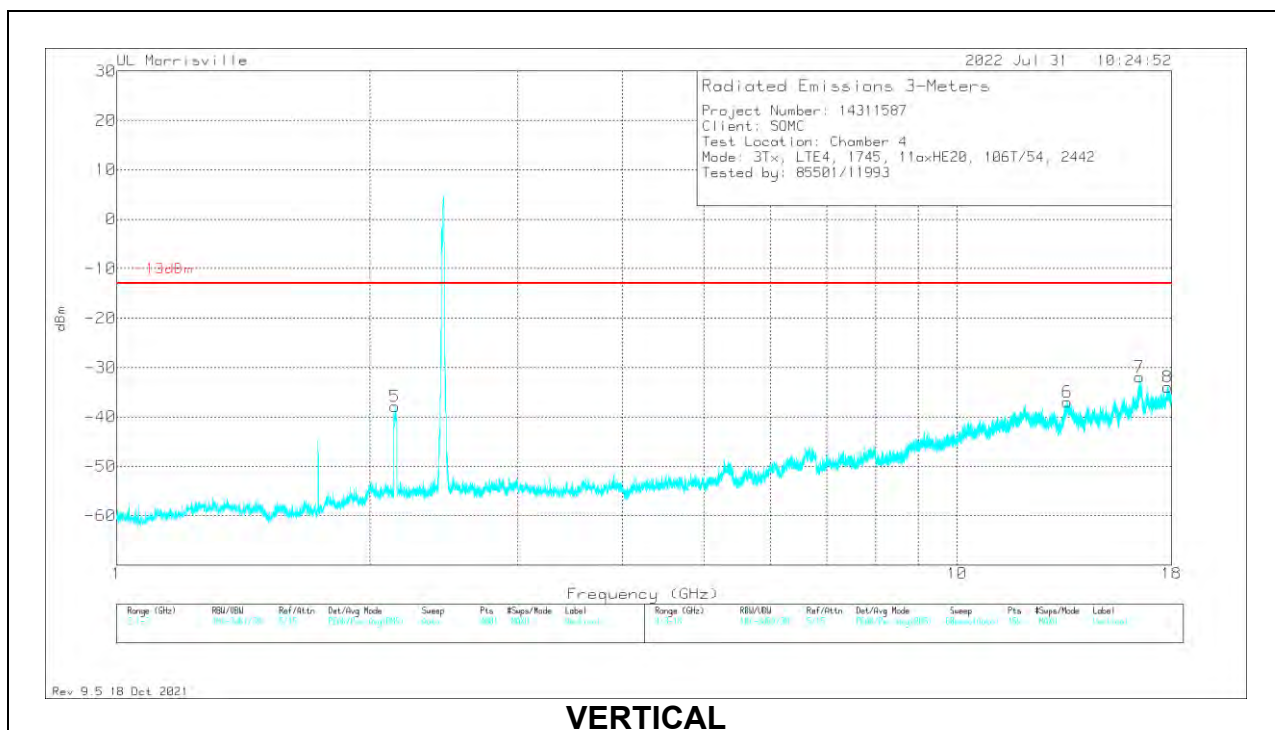
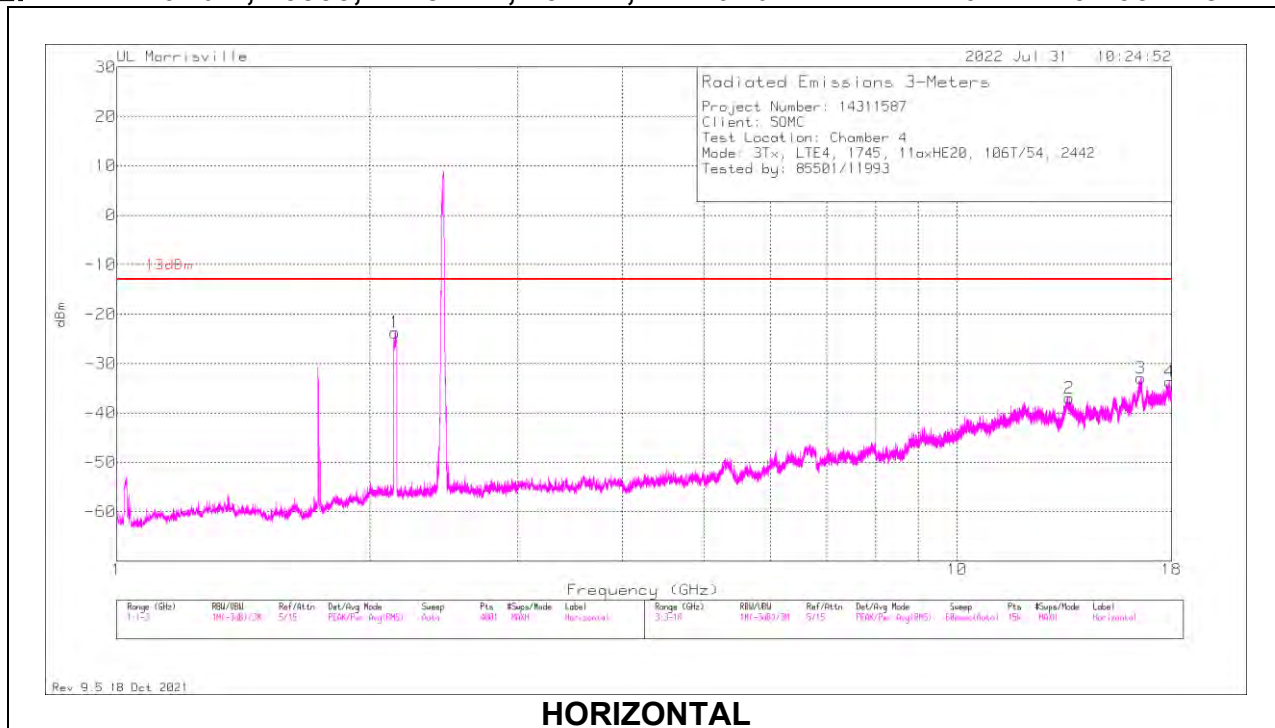
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

DL - Downlink

11.3.2. LTE Band 4, 20300, 1745MHz, 20MHz, 1RB and 2442MHz 11ax HE20 106T/R54 C0/C1



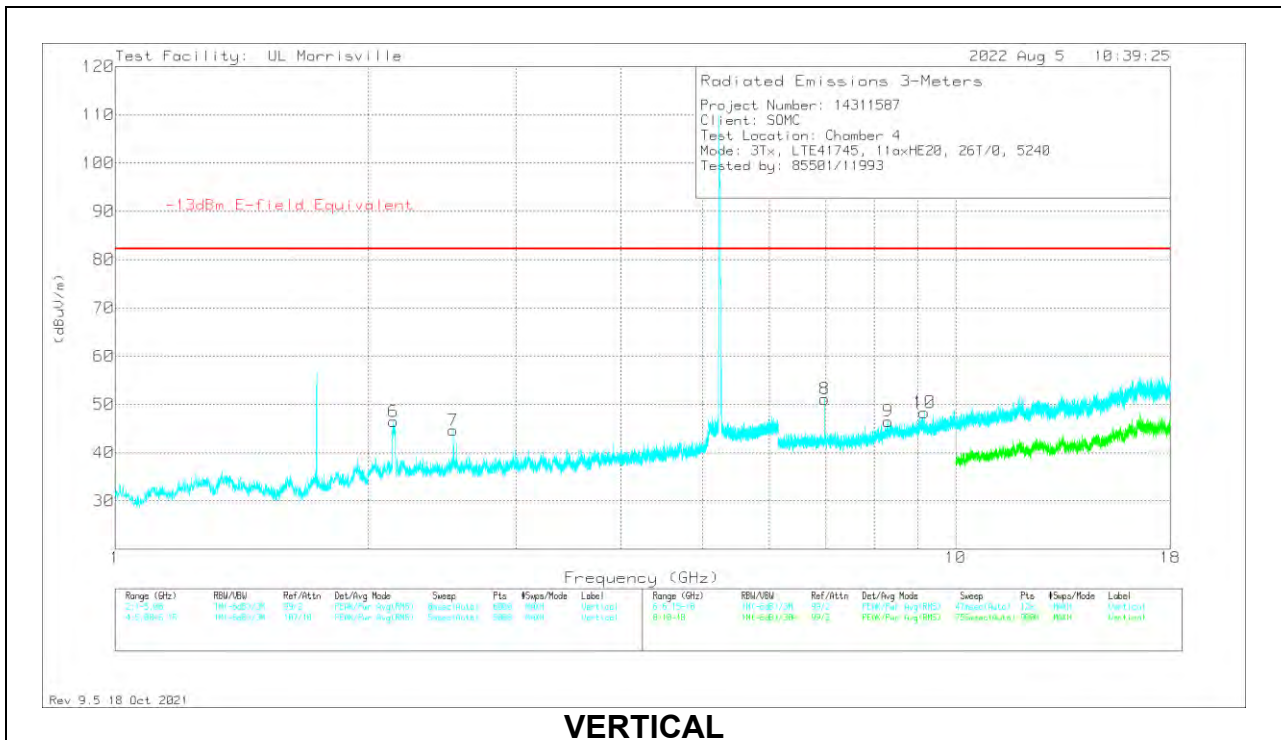
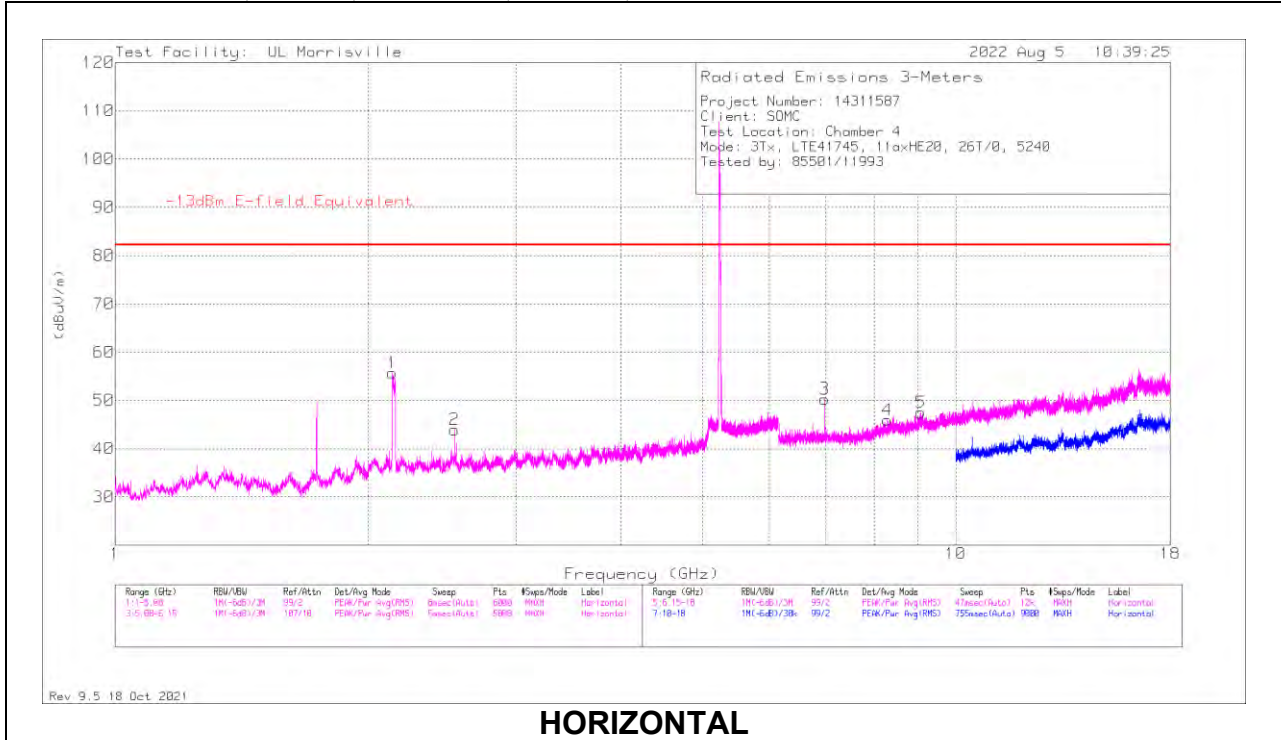
RADIATED EMISSIONS

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	2.144 (DL)	-33.32	Pk	31.5	-34.7	11.8	1	-	-	-	0-360	100	H
5	2.144 (DL)	-47.52	Pk	31.5	-34.7	11.8	1	-	-	-	0-360	101	V
6	13.539	-63.24	Pk	38.8	-24.3	11.8	0	-36.94	-13	-23.94	0-360	200	V
2	13.593	-62.94	Pk	38.7	-24.6	11.8	0	-37.04	-13	-24.04	0-360	200	H
7	16.484	-62.76	Pk	41.2	-22.2	11.8	0	-31.96	-13	-18.96	0-360	200	V
3	16.559	-64.03	Pk	41.4	-22.1	11.8	0	-32.93	-13	-19.93	0-360	100	H
8	17.819	-66	Pk	41.2	-20.9	11.8	0	-33.9	-13	-20.9	0-360	300	V
4	17.908	-65.8	Pk	41.2	-20.9	11.8	0	-33.7	-13	-20.7	0-360	200	H

Pk - Peak detector

DL - Downlink

11.3.3. LTE Band 4, 20300, 1745MHz, 20MHz, 1RB and 5240MHz 11ax HE20 26T/0 C0/C1



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	Filter (dB)	Corrected Reading (dBuV/m)	-13dBm E-field Equivalent (dBuV)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	** 2.13715 (DL)	57.62	Pk	31.5	-34.4	1	-	-	-	0-360	101	H
2	** 2.53229	44.64	Pk	32.5	-33.7	.5	43.94	82.2	-38.26	0-360	200	H
6	** 2.14259 (DL)	48.55	Pk	31.5	-34.6	1	-	-	-	0-360	101	V
7	** 2.52549	45.41	Pk	32.5	-33.8	.5	44.61	82.2	-37.59	0-360	200	V
4	*** 8.2909	37.32	Pk	35.8	-27.2	0	45.92	82.2	-36.28	0-360	200	H
5	*** 9.08189	37.47	Pk	36.1	-26.1	0	47.47	82.2	-34.73	0-360	200	H
9	*** 8.31164	37.23	Pk	35.8	-26.5	0	46.53	82.2	-35.67	0-360	200	V
10	*** 9.17373	38.9	Pk	36.3	-26.9	0	48.3	82.2	-33.9	0-360	101	V
3	6.98641	42.17	Pk	35.6	-27.5	0	50.27	82.2	-31.93	0-360	101	H
8	6.98641	43.02	Pk	35.6	-27.5	0	51.12	82.2	-31.08	0-360	101	V

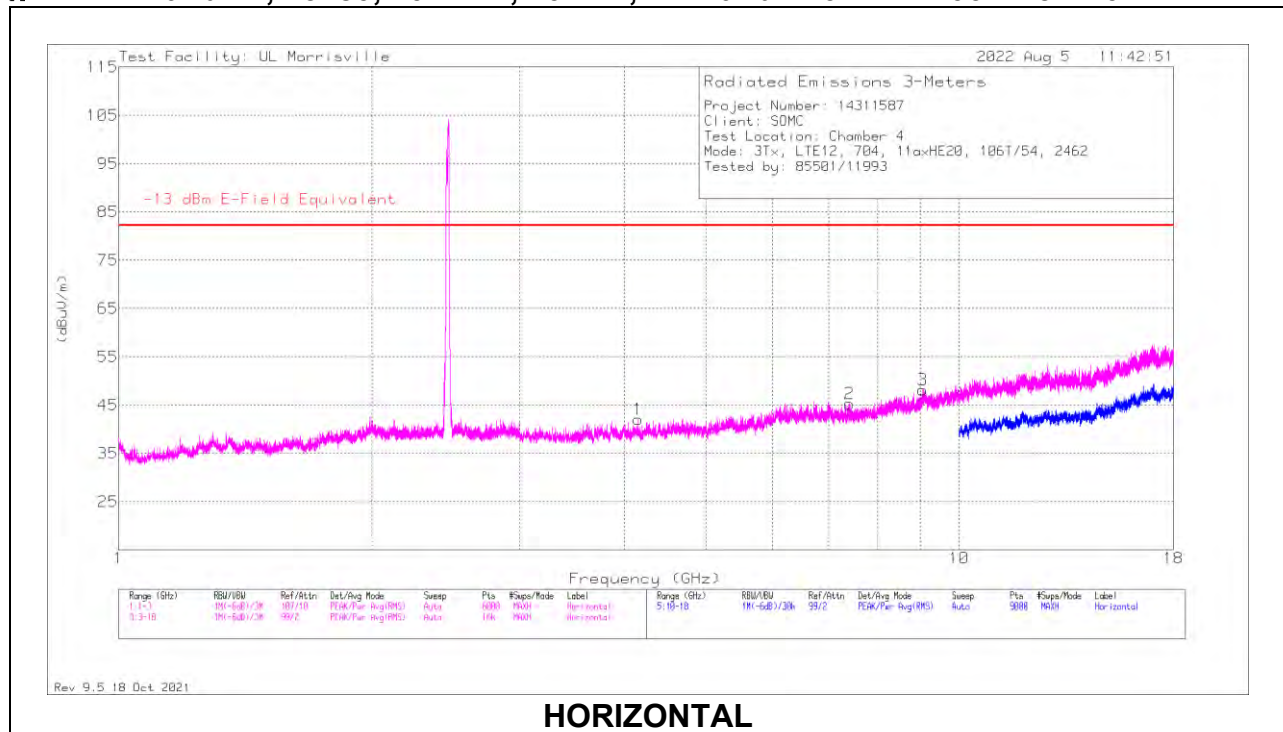
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

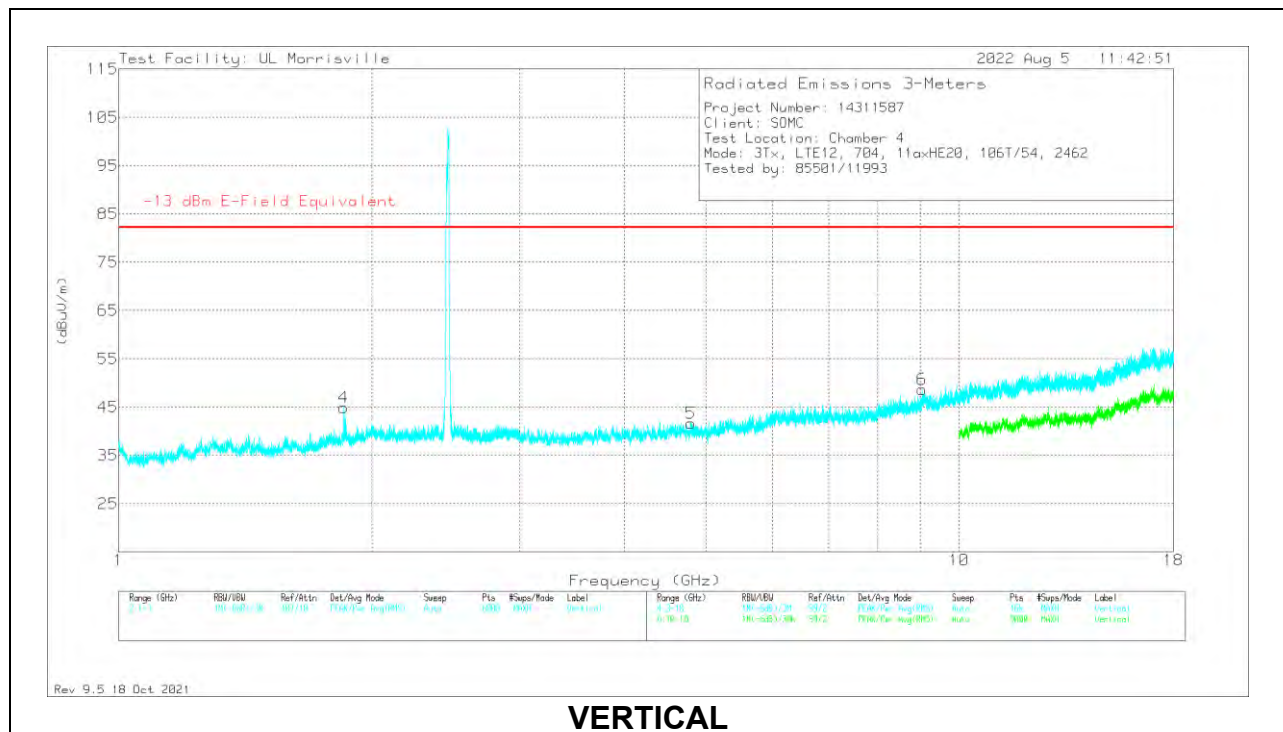
Pk - Peak detector

DL - Downlink

11.3.4. LTE Band 12, 23780, 707MHz, 10MHz, 1RB and 2462MHz 106T/R54 C0/C1



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	206211 (dB/m)	Gain/Loss (dB)	Filter (dB)	Corrected Reading (dBuV/m)	-13 dBm E-Field Equivalent	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	** 1.85248	36.52	Pk	30.4	-22.4	.4	44.92	82.2	-37.28	0-360	101	V
1	*** 4.15031	39.41	Pk	33.3	-31.1	.4	42.01	82.2	-40.19	0-360	200	H
2	*** 7.41094	36.35	Pk	35.6	-27.2	.5	45.25	82.2	-36.95	0-360	101	H
3	*** 9.06094	36.82	Pk	36.1	-25.3	.6	48.22	82.2	-33.98	0-360	101	H
5	*** 4.79625	38.13	Pk	34	-30.7	.3	41.73	82.2	-40.47	0-360	200	V
6	*** 9.04125	38.03	Pk	36	-25.8	.5	48.73	82.2	-33.47	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 Photos Exhibit R14311587-EP1 FCC WWAN SETUP PHOTOS EXHIBIT for Setup Diagrams and Photos.

END OF REPORT