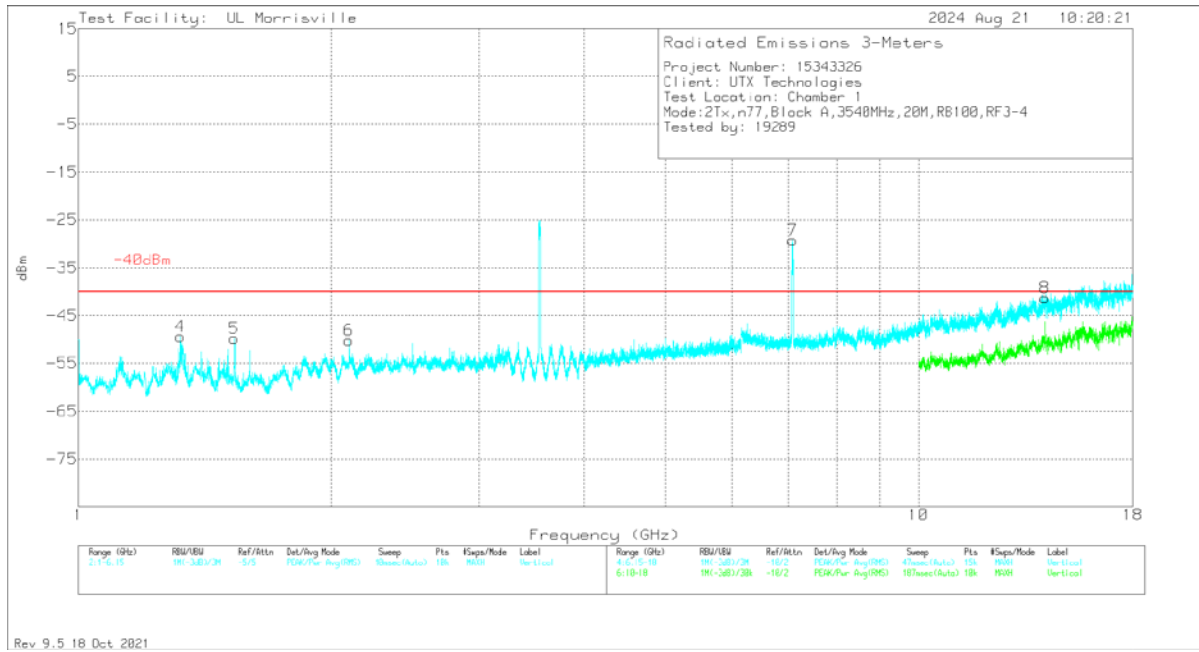
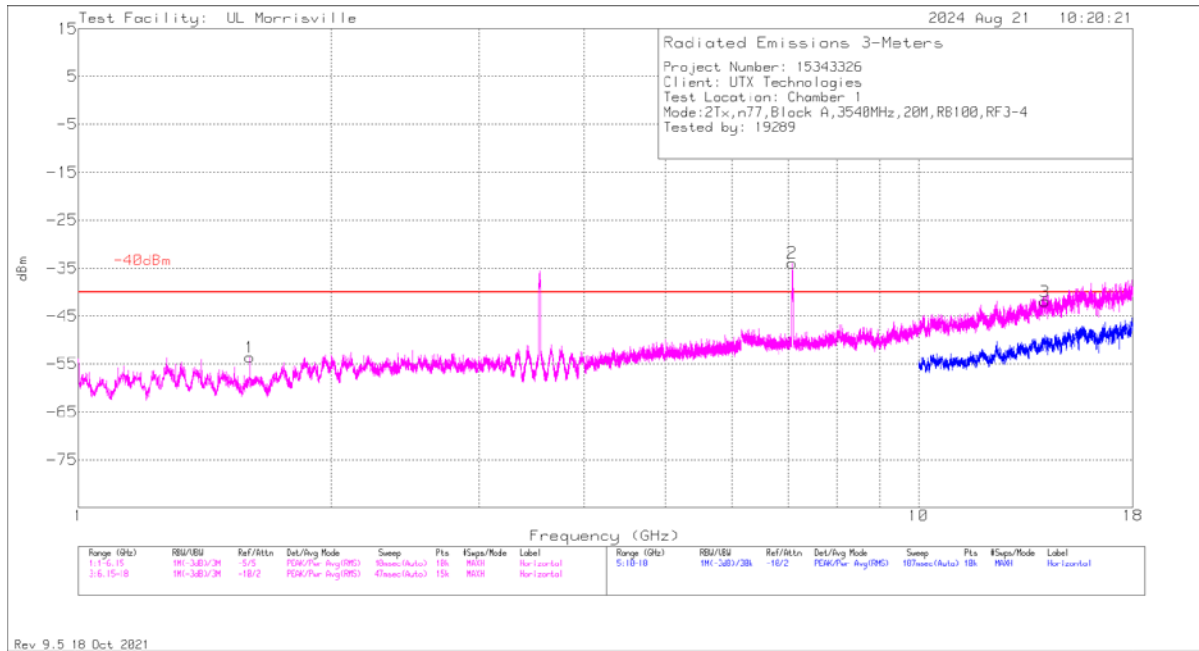




Marker	Frequency (GHz)	Meter Reading (dBm)	Det	135143 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-40dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.32291	-42.23	Pk	29.1	-48.4	11.8	.3	-49.43	-40	-9.43	0-360	199	V
5	1.53354	-41.94	Pk	28.1	-48.1	11.8	.4	-49.74	-40	-9.74	0-360	101	V
1	1.59998	-45.95	Pk	28.1	-47.9	11.8	.3	-53.65	-40	-13.65	0-360	300	H
6	2.09953	-46.19	Pk	31.7	-48.1	11.8	.6	-50.19	-40	-10.19	0-360	299	V
2	7.08031	-49.58	RMS	35.4	-42.3	11.8	.8	-43.88	-40	-3.88	0	360	H
7	7.07906	-45.83	RMS	35.4	-42.4	11.8	.8	-40.23	-40	-.23	285	101	V
3	14.16003	-61.76	RMS	39.2	-37.3	11.8	1	-47.06	-40	-7.06	272	202	H
8	14.16007	-58.05	RMS	39.2	-37.3	11.8	1	-43.35	-40	-3.35	318	225	V

Pk - Peak detector

RMS - RMS detection

10.1.10. 5G NR n77 (FCC Part 27 3700-3980MHz)

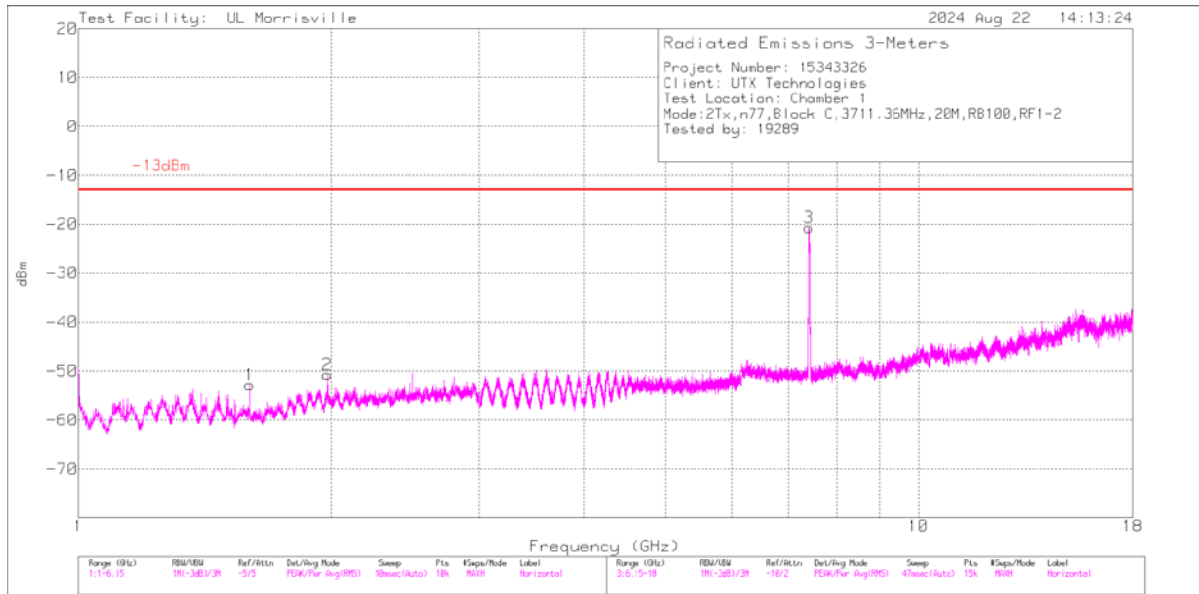
LIMITS

FCC: §27.53

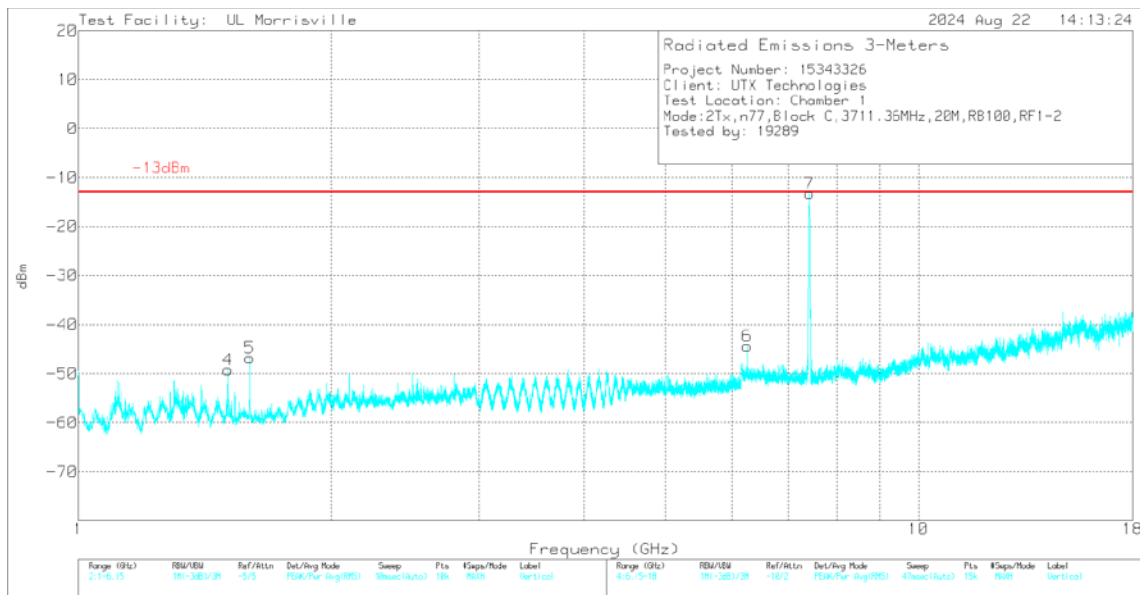
(l) 3.7 GHz Service. The following emission limits apply to stations transmitting in the 3700-3980 MHz band:

(1) For base station operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this [paragraph \(l\)\(1\)](#) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

OPSK 5G NR n77 (20MHz BANDWIDTH)



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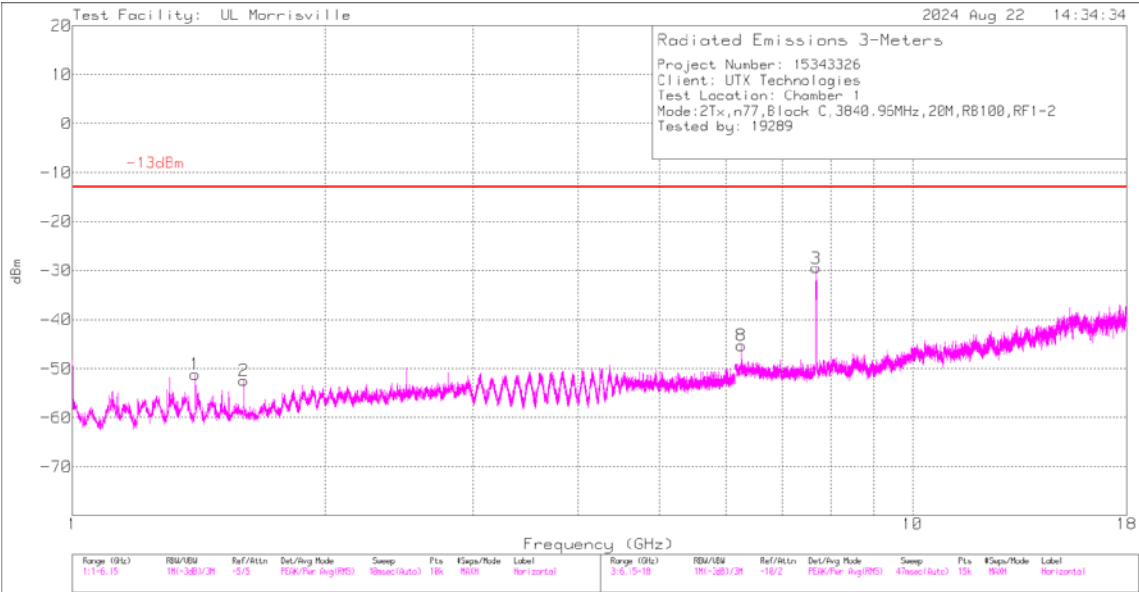


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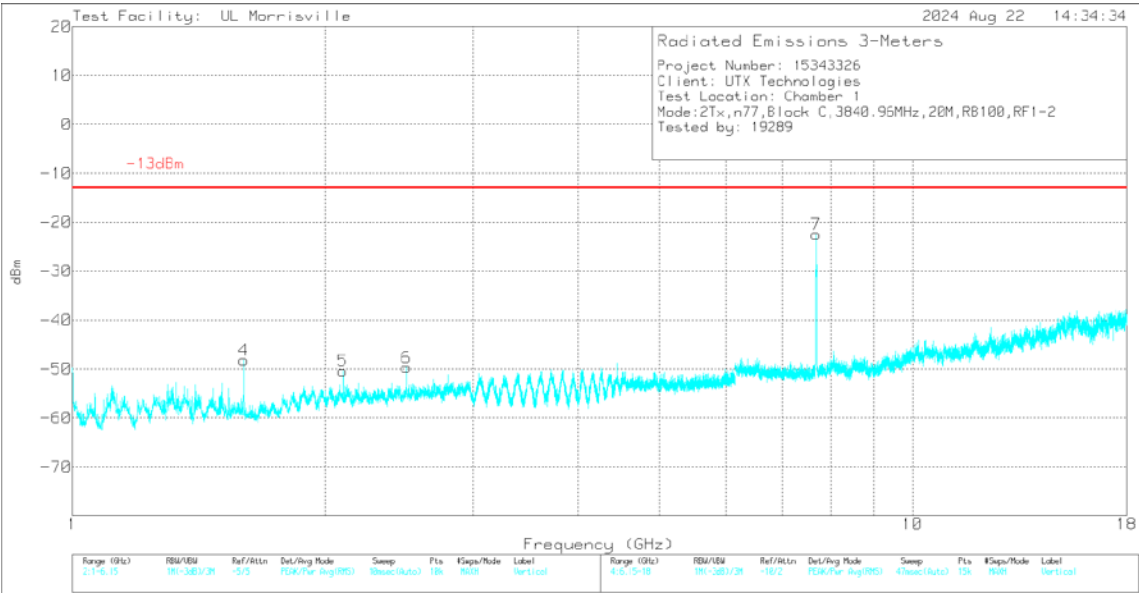
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	135143 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	1.50573	-41.53	Pk	28.2	-48.1	11.8	.4	-49.23	-13	-36.23	0-360	101	V
1	1.59998	-45.18	Pk	28.1	-47.9	11.8	.4	-52.78	-13	-39.78	0-360	199	H
5	1.59998	-39.24	Pk	28.1	-47.9	11.8	.4	-46.84	-13	-33.84	0-360	101	V
2	1.98056	-46.21	Pk	31.6	-48.3	11.8	.4	-50.71	-13	-37.71	0-360	100	H
6	6.24954	-50.58	Pk	35.5	-41.8	11.8	.7	-44.38	-13	-31.38	0-360	101	V
3	7.41084	-26.97	Pk	35.4	-41.6	11.8	.7	-20.67	-13	-7.67	0-360	299	H
7	7.42353	-30.83	RMS	35.4	-41.8	11.8	.6	-24.83	-13	-11.83	347	102	V

Pk - Peak detector

RMS - RMS detection



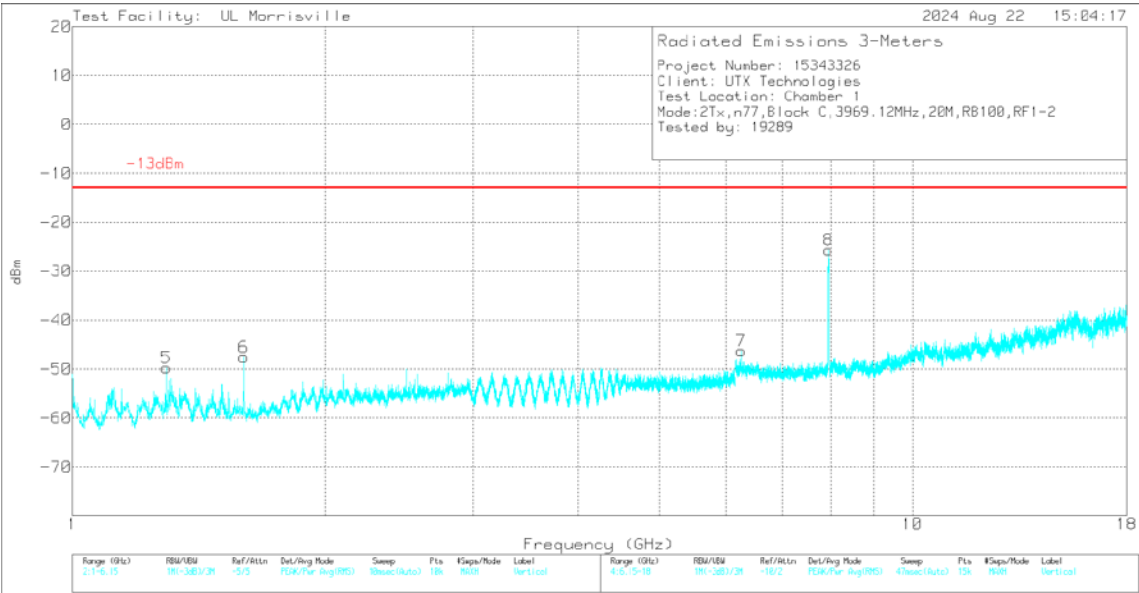
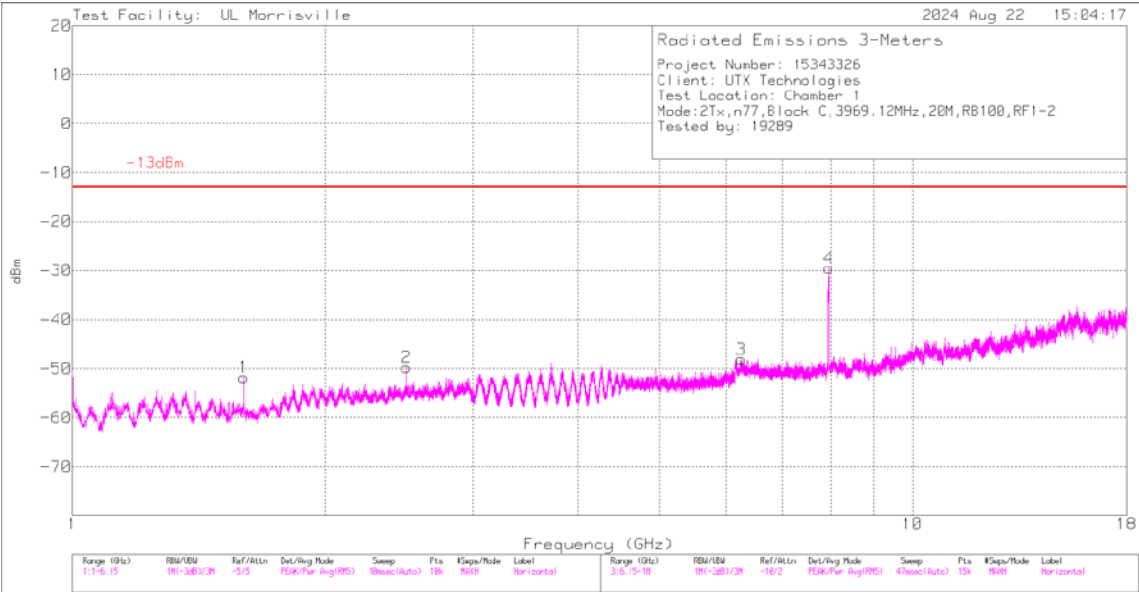
Rev 9.5 18 Oct 2021



Rev 9.5 18 Oct 2021

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	135143 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.40016	-44.11	Pk	28.7	-48	11.8	.5	-51.11	-13	-38.11	0-360	101	H
2	1.59998	-44.78	Pk	28.1	-47.9	11.8	.4	-52.38	-13	-39.38	0-360	300	H
4	1.59998	-40.57	Pk	28.1	-47.9	11.8	.4	-48.17	-13	-35.17	0-360	101	V
5	2.09978	-46.19	Pk	31.7	-48.1	11.8	.4	-50.39	-13	-37.39	0-360	101	V
6	2.5002	-46.48	Pk	32.3	-47.9	11.8	.6	-49.68	-13	-36.68	0-360	101	V
8	6.24954	-51.49	Pk	35.5	-41.8	11.8	.7	-45.29	-13	-32.29	0-360	101	H
3	7.68497	-35.96	Pk	35.6	-41.5	11.8	.6	-29.46	-13	-16.46	0-360	300	H
7	7.68655	-28.94	Pk	35.6	-41.5	11.8	.6	-22.44	-13	-9.44	0-360	201	V

Pk - Peak detector



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	135143 (dB/m)	Gain/Loss (dB)	CF (dB)	Filter (dB)	Corrected Reading dBm	-13dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	1.29355	-42.54	Pk	29.1	-48.5	11.8	.4	-49.74	-13	-36.74	0-360	200	V
1	1.59998	-44.15	Pk	28.1	-47.9	11.8	.4	-51.75	-13	-38.75	0-360	299	H
6	1.59998	-40.01	Pk	28.1	-47.9	11.8	.4	-47.61	-13	-34.61	0-360	101	V
2	2.5002	-46.57	Pk	32.3	-47.9	11.8	.6	-49.77	-13	-36.77	0-360	299	H
3	6.24954	-54.27	Pk	35.5	-41.8	11.8	.7	-48.07	-13	-35.07	0-360	199	H
7	6.24954	-52.46	Pk	35.5	-41.8	11.8	.7	-46.26	-13	-33.26	0-360	101	V
8	7.9433	-33.12	Pk	35.8	-40.9	11.8	.7	-25.72	-13	-12.72	0-360	300	V
4	7.94409	-36.82	Pk	35.8	-41	11.8	.7	-29.52	-13	-16.52	0-360	300	H

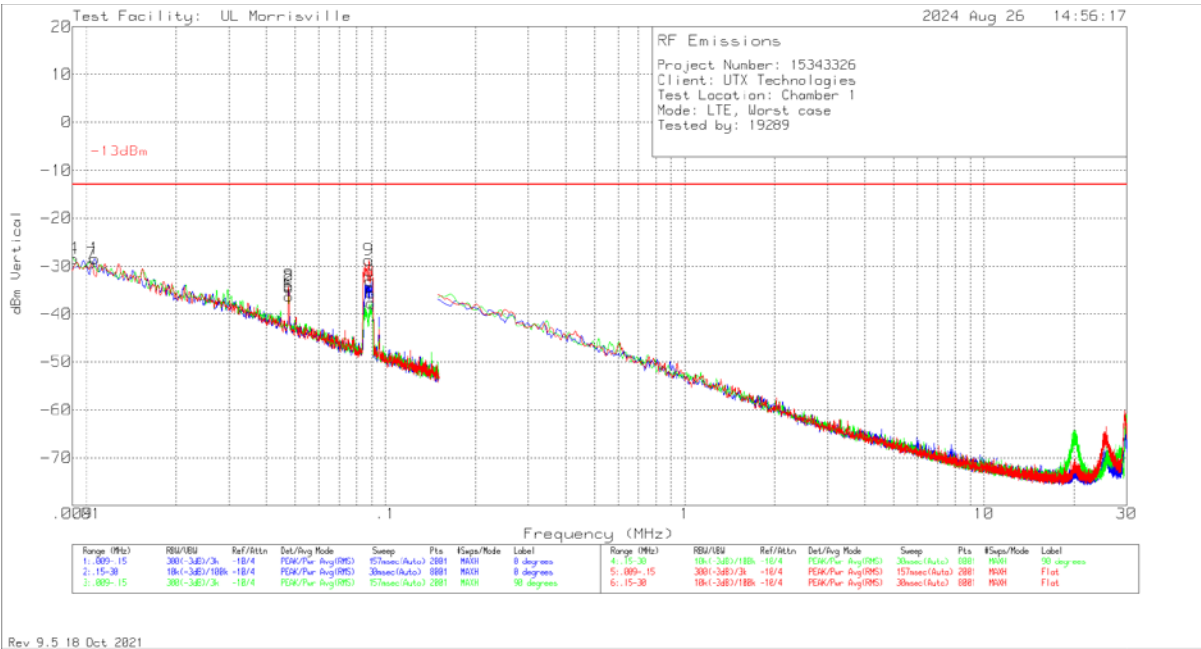
Pk - Peak detector

11. WORST CASE RADIATED EMISSIONS

11.1. WORST CASE BELOW 30MHZ

SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIGURATION)

Note: All measurements were made at a test distance of 3 m. The measured data was extrapolated from the test distance (3m) to the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz – 30 MHz) to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the intentionally transmitted signal. The extrapolation factor for the limits were 40*Log (test distance / specification distance)



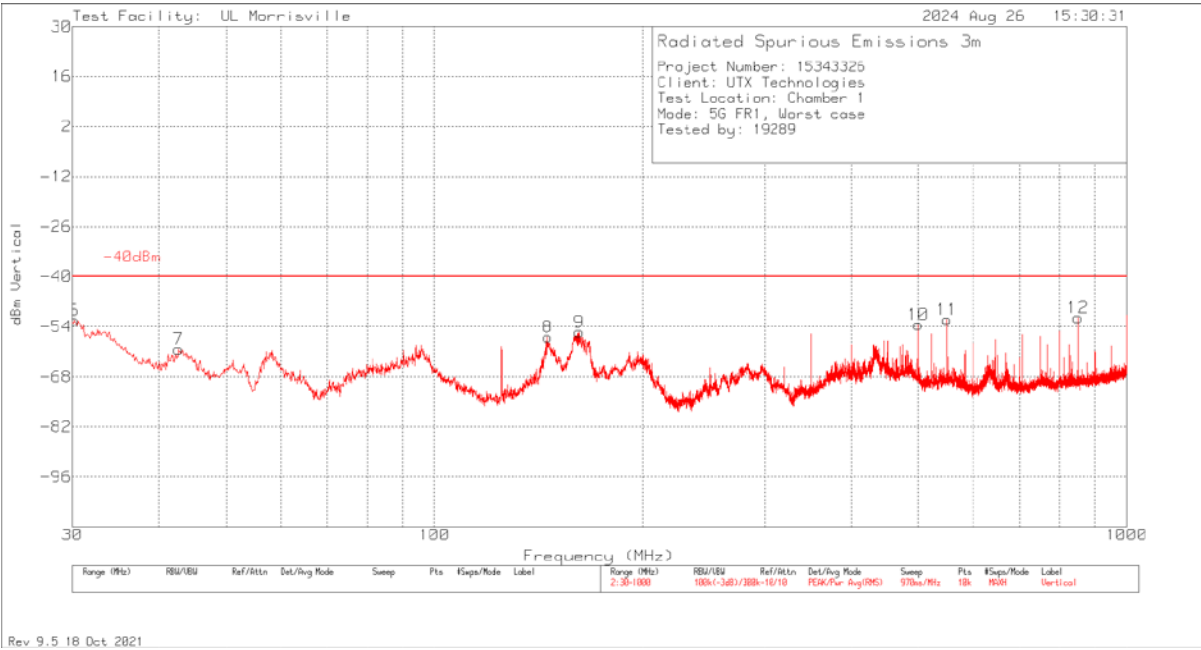
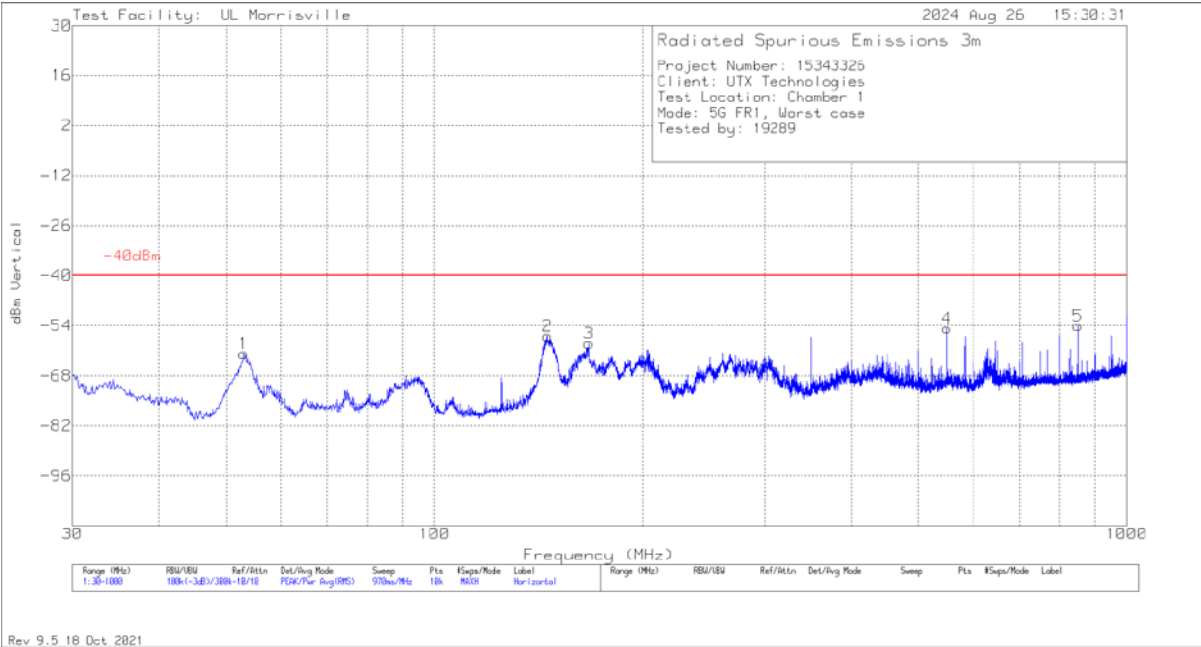
Marker	Frequency (MHz)	Meter Reading (dBm)	Det	135144 (dBuV/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading dBm	-13dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Loop Angle
4	.00907	-59.21	Pk	18.9	.1	11.8	-28.41	-13	-15.41	0-360	400	90 degs
7	.01042	-59.61	Pk	18.3	.1	11.8	-29.41	-13	-16.41	0-360	400	Flat
1	.0107	-58.57	Pk	18.2	.1	11.8	-28.47	-13	-15.47	0-360	400	0 degs
2*	.04755	-58.19	Pk	11.8	.1	11.8	-34.49	-13	-21.49	0-360	400	0 degs
5*	.04755	-59.97	Pk	11.8	.1	11.8	-36.27	-13	-23.27	0-360	400	90 degs
8*	.04755	-57.7	Pk	11.8	.1	11.8	-34	-13	-21	0-360	400	Flat
9*	.08795	-52.11	Pk	11.5	.1	11.8	-28.71	-	-	0-360	400	Flat
3*	.08852	-56.48	Pk	11.5	.1	11.8	-33.08	-	-	0-360	400	0 degs
6*	.08944	-61.15	Pk	11.5	.1	11.8	-37.75	-	-	0-360	400	90 degs

Pk - Peak detector

Radio Off investigation scan was performed, in which the radio was disabled via software. Spurious emissions at indicated () markers were present as well. Therefore, the indicated markers are not radio related.

11.2. WORST CASE BELOW 1 GHZ

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)

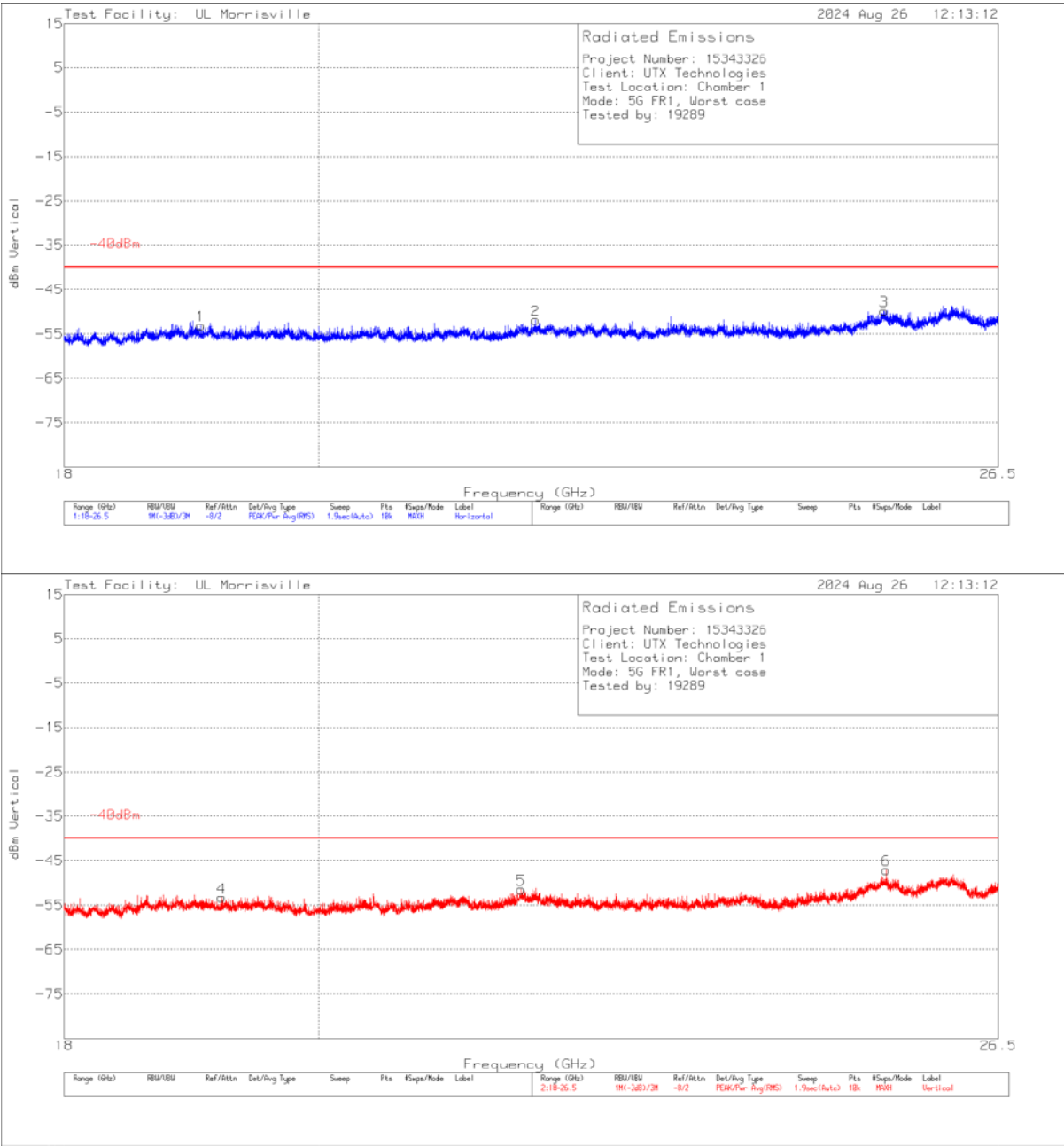


Marker	Frequency (MHz)	Meter Reading (dBm)	Det	90629 (dB/m)	Gain/Loss (dB)	Filter (dB)	Conversion Factor (dB)	Corrected Reading dBm	-40dBm	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	30.194	-59.18	Pk	26.8	-31.7	.1	11.8	-52.18	-40	-12.18	0-360	100	V
7	42.707	-58.88	Pk	17.8	-31.1	.1	11.8	-60.28	-40	-20.28	0-360	100	V
1	53.086	-55.98	Pk	13.7	-31.5	.1	11.8	-61.88	-40	-21.88	0-360	399	H
2	145.624	-57.42	Pk	19	-30.6	.3	11.8	-56.92	-40	-16.92	0-360	200	H
8	145.818	-57.56	Pk	19	-30.5	.3	11.8	-56.96	-40	-16.96	0-360	100	V
9	162.017	-56.17	Pk	18.5	-30.1	.4	11.8	-55.57	-40	-15.57	0-360	100	V
3	166.964	-58.62	Pk	18.3	-30.7	.3	11.8	-58.92	-40	-18.92	0-360	200	H
10	500.062	-61.25	Pk	24	-28.3	.3	11.8	-53.45	-40	-13.45	0-360	100	V
4	550.017	-63.13	Pk	24.5	-28.5	.6	11.8	-54.73	-40	-14.73	0-360	100	H
11	550.017	-60.33	Pk	24.5	-28.5	.6	11.8	-51.93	-40	-11.93	0-360	100	V
5	850.038	-66.92	Pk	27.9	-27.3	.5	11.8	-54.02	-40	-14.02	0-360	200	H
12	850.038	-64.42	Pk	27.9	-27.3	.5	11.8	-51.52	-40	-11.52	0-360	100	V

Pk - Peak detector

11.3. WORST CASE 18-26 GHZ

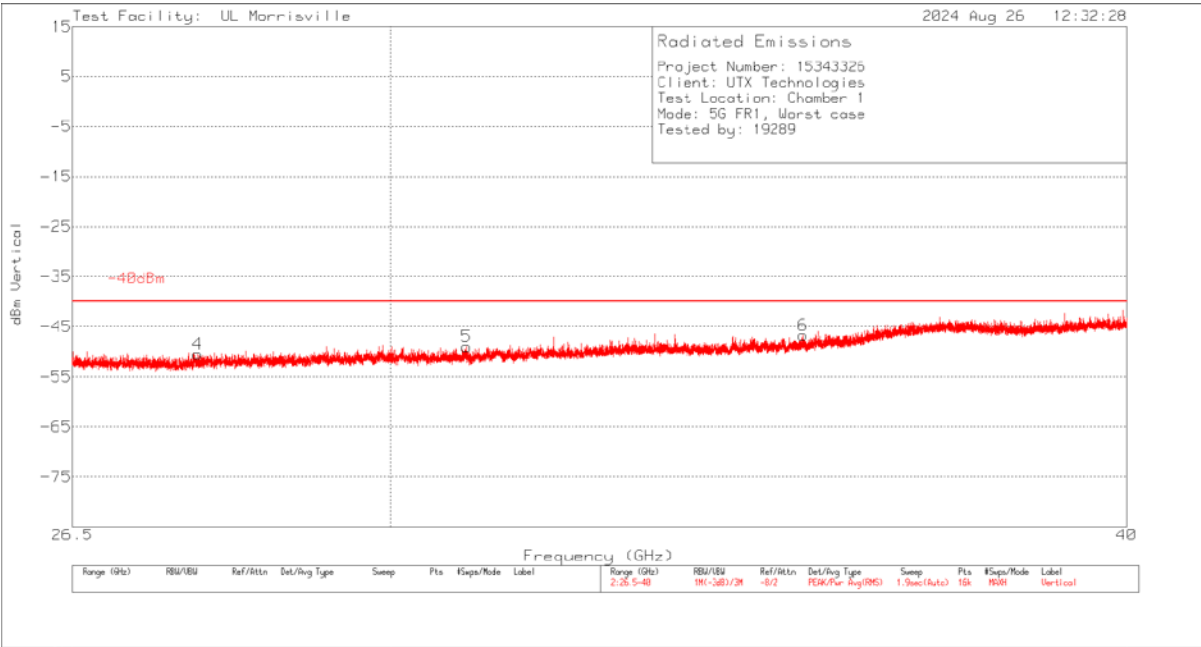
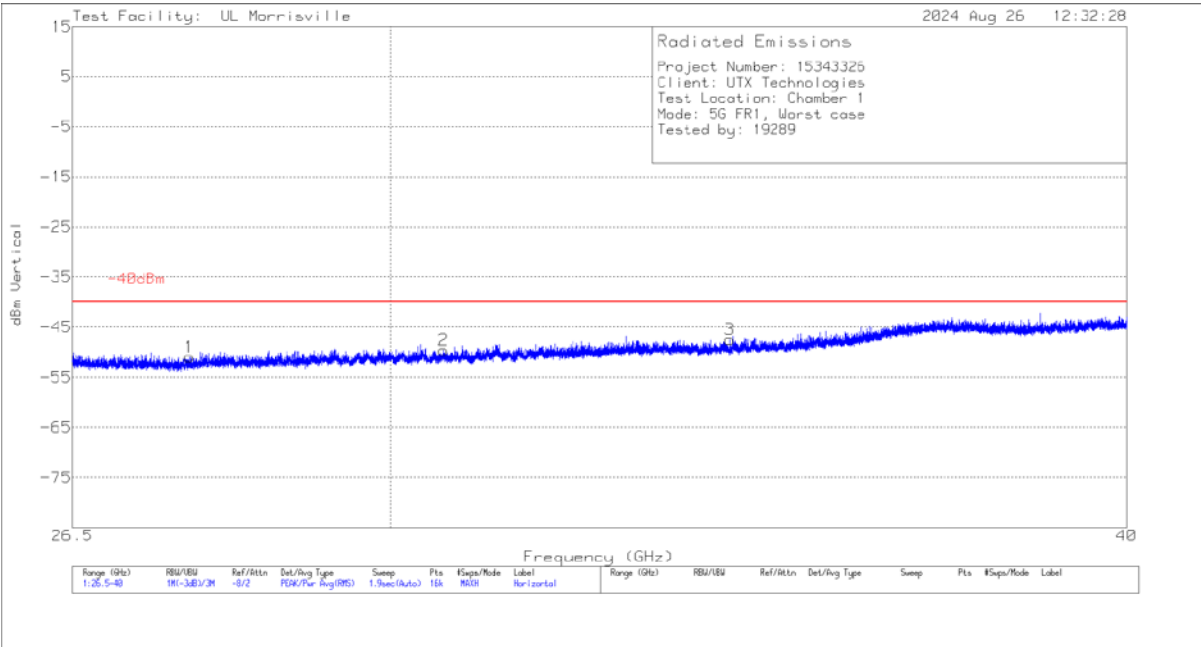
SPURIOUS EMISSIONS 18-26 GHz (WORST-CASE CONFIGURATION)



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	204704 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading dBm	-40dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	19.0454	-58.38	Pk	33.6	-40.1	11.8	-53.08	-40	-13.08	0-360	150	H
4	19.21113	-58.48	Pk	33.5	-40.1	11.8	-53.28	-40	-13.28	0-360	300	V
5	21.74813	-57.15	Pk	34	-40.1	11.8	-51.45	-40	-11.45	0-360	150	V
2	21.88156	-57.79	Pk	34.2	-40.1	11.8	-51.89	-40	-11.89	0-360	300	H
3	25.27527	-58.22	Pk	35.7	-39.1	11.8	-49.82	-40	-9.82	0-360	300	H
6	25.30077	-55.54	Pk	35.7	-39	11.8	-47.04	-40	-7.04	0-360	101	V

Pk - Peak detector

11.4. WORST CASE 26-40 GHZ



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	204705 (dB/m)	Gain/Loss (dB)	Conversion Factor (dB)	Corrected Reading dBm	-40dBm	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	27.73517	-60.92	Pk	36.1	-37.9	11.8	-50.92	-40	-10.92	0-360	101	H
4	27.82714	-60.59	Pk	36.2	-37.9	11.8	-50.49	-40	-10.49	0-360	101	V
2	30.63243	-61.08	Pk	36.8	-37.1	11.8	-49.58	-40	-9.58	0-360	199	H
5	30.91338	-60.42	Pk	36.9	-37.2	11.8	-48.92	-40	-8.92	0-360	150	V
3	34.25273	-59.19	Pk	37.5	-37.6	11.8	-47.49	-40	-7.49	0-360	199	H
6	35.24829	-58.35	Pk	37.5	-37.7	11.8	-46.75	-40	-6.75	0-360	101	V

Pk - Peak detector

12. SETUP PHOTOS

Please refer to R15343326-EP1 for Setup Photos and Setup Exhibits.

END OF TEST REPORT