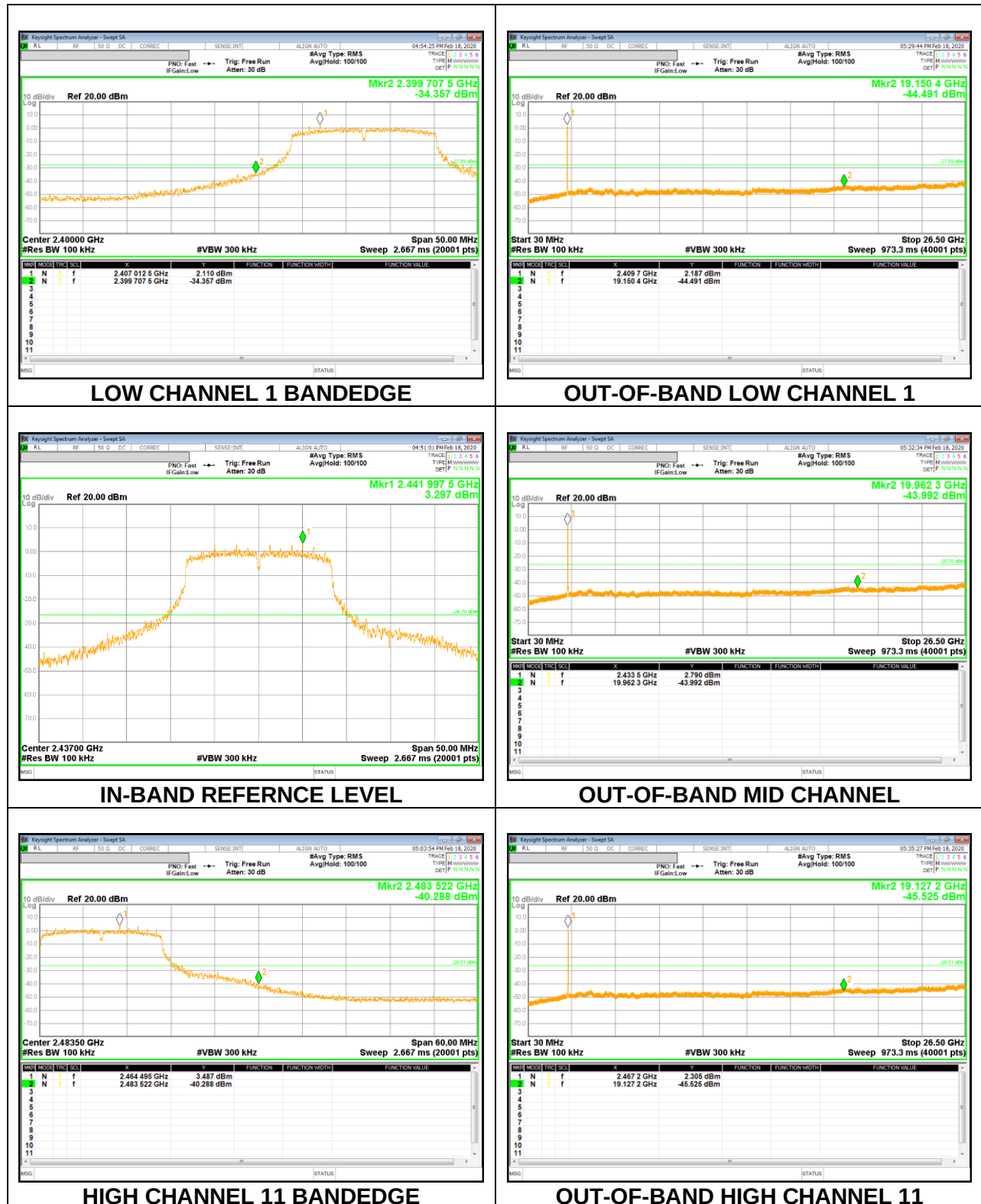
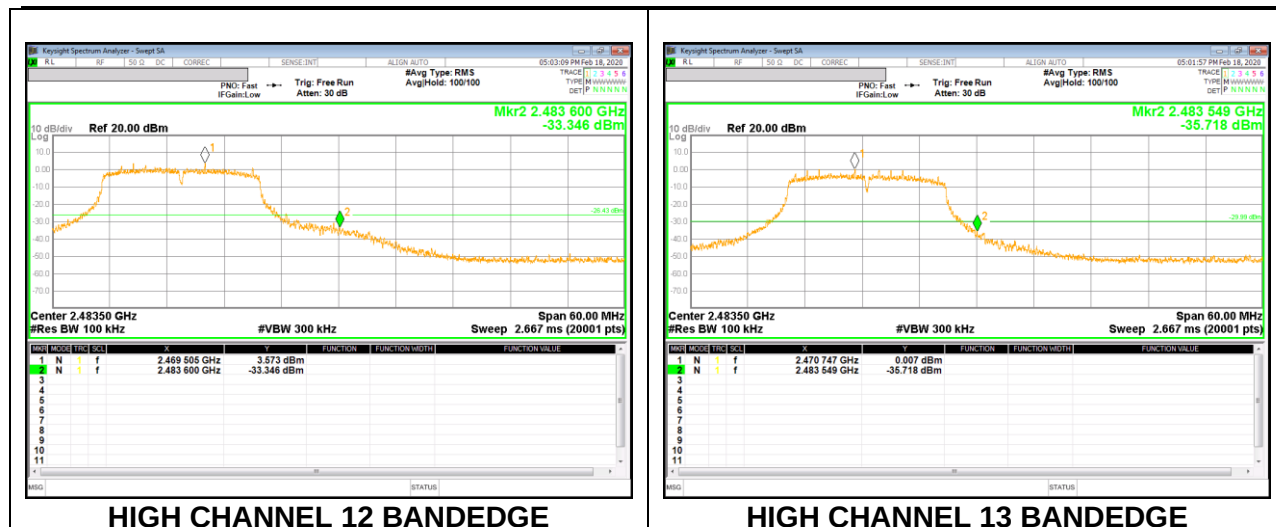


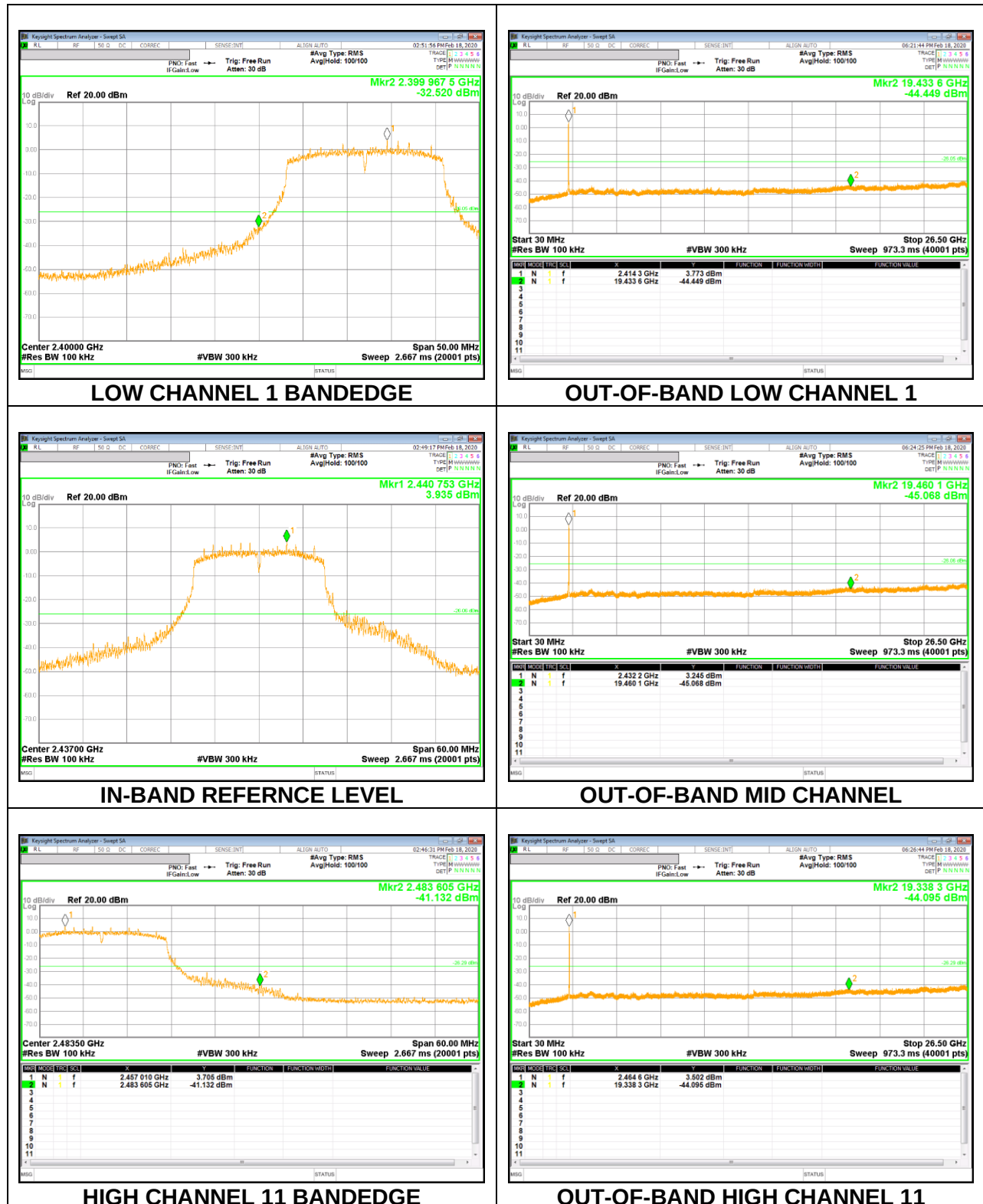
1TX Antenna 2 MODE

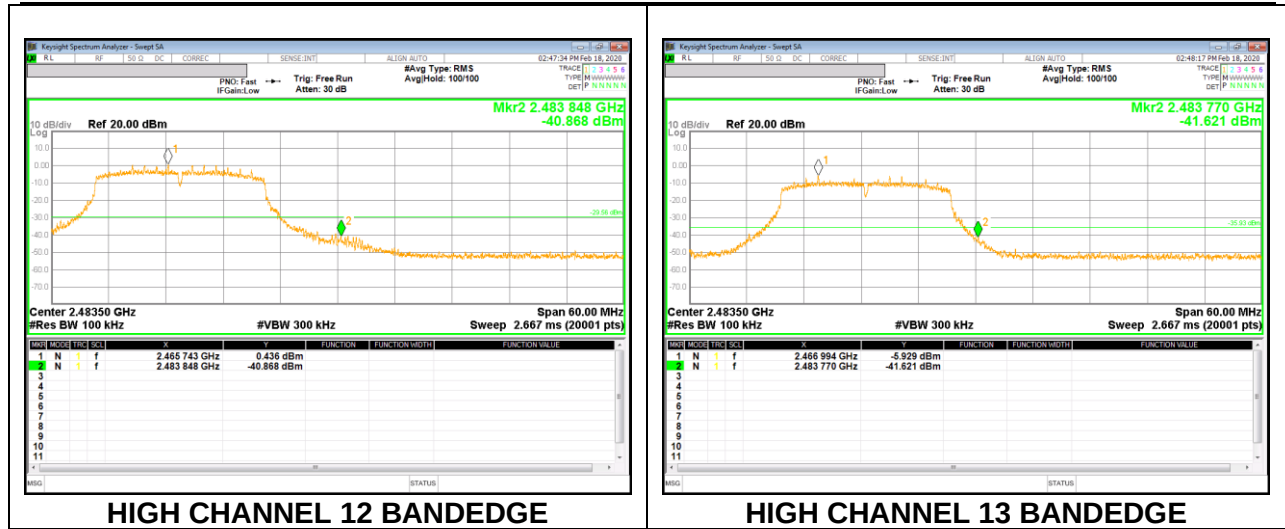




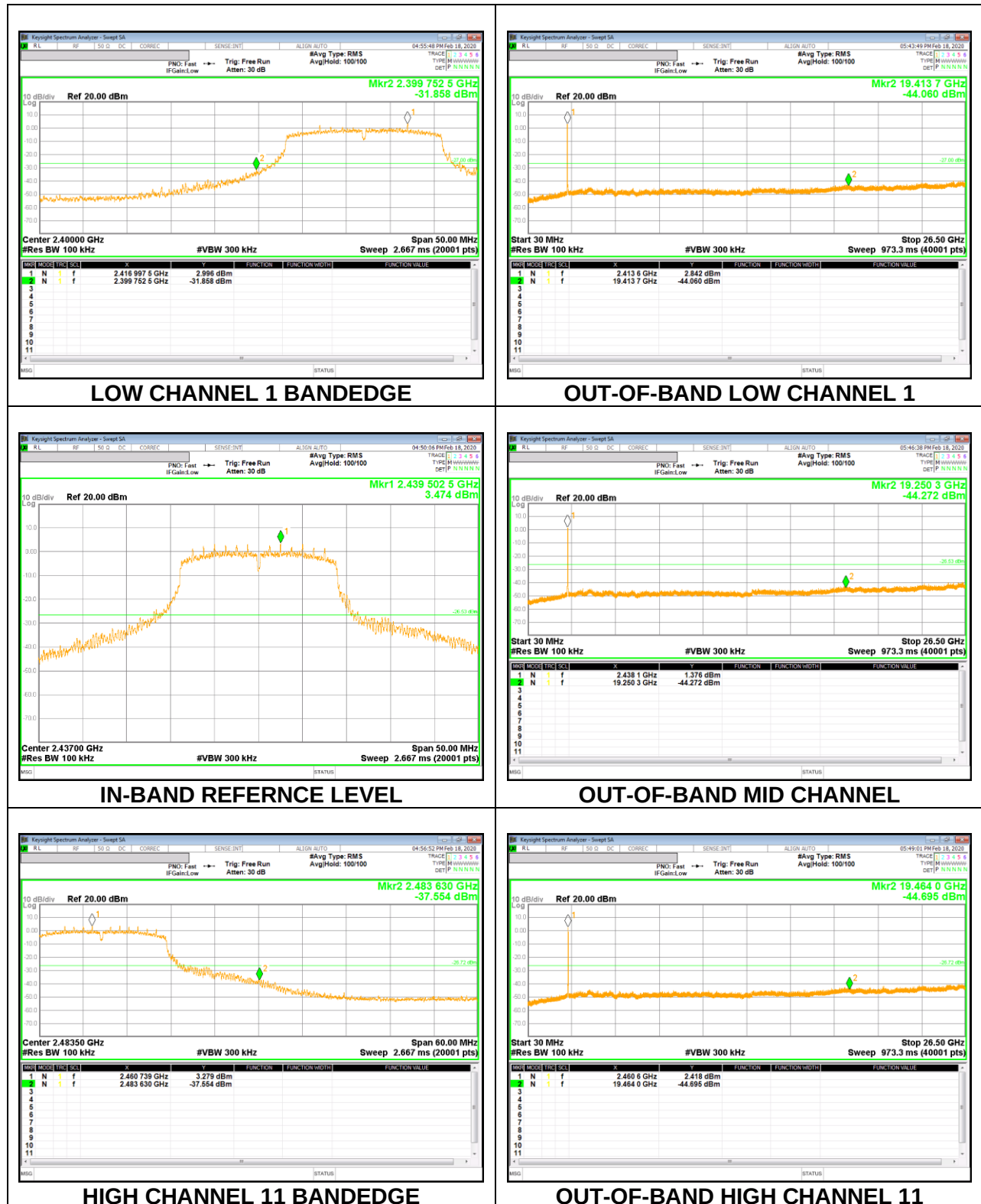
9.5.3. 802.11n HT20 MODE

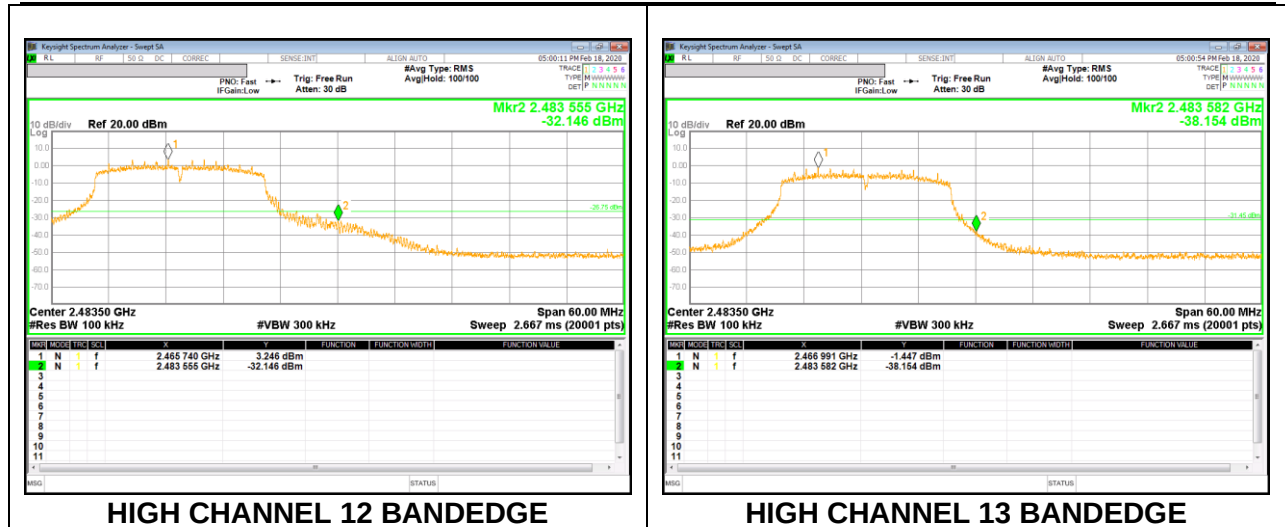
1TX Antenna 1 MODE





1TX Antenna 2 MODE





10. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209

Limits for radiated disturbance of an intentional radiator		
Frequency range (MHz)	Limits (μV/m)	Measurement Distance (m)
0.009 – 0.490	2400 / F (kHz)	300
0.490 – 1.705	24000 / F (kHz)	30
1.705 – 30.0	30	30
30 – 88	100**	3
88 - 216	150**	3
216 – 960	200**	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g. §§ 15.231 and 15.241.

FCC Part 15.205 (a) : Only spurious emissions are permitted in any of the frequency bands listed below :

MHz	MHz	MHz	MHz	GHz	GHz
0.009 ~ 0.110	8.41425 ~ 8.41475	108 ~ 121.94	1300 ~ 1427	4.5 ~ 5.15	14.47 ~ 14.5
0.495 ~ 0.505	12.29 ~ 12.293	123 ~ 138	1435 ~ 1626.5	5.35 ~ 5.46	15.35 ~ 16.2
2.1735 ~ 2.1905	12.51975 ~ 12.52025	149.9 ~ 150.05	1645.5 ~ 1646.5	7.25 ~ 7.75	17.7 ~ 21.4
4.125 ~ 4.128	12.57675 ~ 12.57725	156.52475 ~	1660 ~ 1710	8.025 ~ 8.5	22.01 ~ 23.12
4.17725 ~ 4.17775	13.36 ~ 13.41	156.52525	1718.8 ~ 1722.2	9.0 ~ 9.2	23.6 ~ 24.0
4.20725 ~ 4.20775	16.42 ~ 16.423	156.7 ~ 156.9	2200 ~ 2300	9.3 ~ 9.5	31.2 ~ 31.8
6.215 ~ 6.218	16.69475 ~ 16.69525	162.0125 ~	2310 ~ 2390	10.6 ~ 12.7	36.43 ~ 36.5
6.26775 ~ 6.26825	16.80425 ~ 16.80475	167.17	2483.5 ~ 2500	13.25 ~ 13.4	Above 38.6
6.31175 ~ 6.31225	25.5 ~ 25.67	167.72 ~ 173.2	2655 ~ 2900		
8.291 ~ 8.294	37.5 ~ 38.25	240 ~ 285	3260 ~ 3267		
8.362 ~ 8.366	73 ~ 74.6	322 ~ 335.4	3332 ~ 3339		
8.37625 ~ 8.38675	74.8 ~ 75.2	399.90 ~ 410	3345.8 ~ 3358		
		608 ~ 614	3600 ~ 4400		
		960 ~ 1240			

▪ FCC Part 15.205(b) : The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1 GHz and 150 cm for above 1 GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and add duty cycle factor for average measurements. (Restricted bandedge, Final detection of spurious harmonic emissions)
Duty cycle factor = $10\log(1/x)$ For this sample B mode = 0dB (duty cycle >98%); G mode = 0.18dB (duty cycle = 95.8%); N mode = 0.17dB (duty cycle = 96.3%).

Pre-scans to detect harmonic and spurious emissions, the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 kHz for peak measurements.

The spectrum from 1 GHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.
(From 30MHz to 1GHz, test was performed with the EUT set to transmit at the channel with highest output power)

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

Note : Emission was pre-scanned from 9 kHz to 30 MHz; No emissions were detected which was at least 20dB below the specification limit (consider distance correction factor).
Per FCC part 15.31(o), test results were not reported.

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open area test site.
Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the one of tests made in an open field based on KDB 414788.

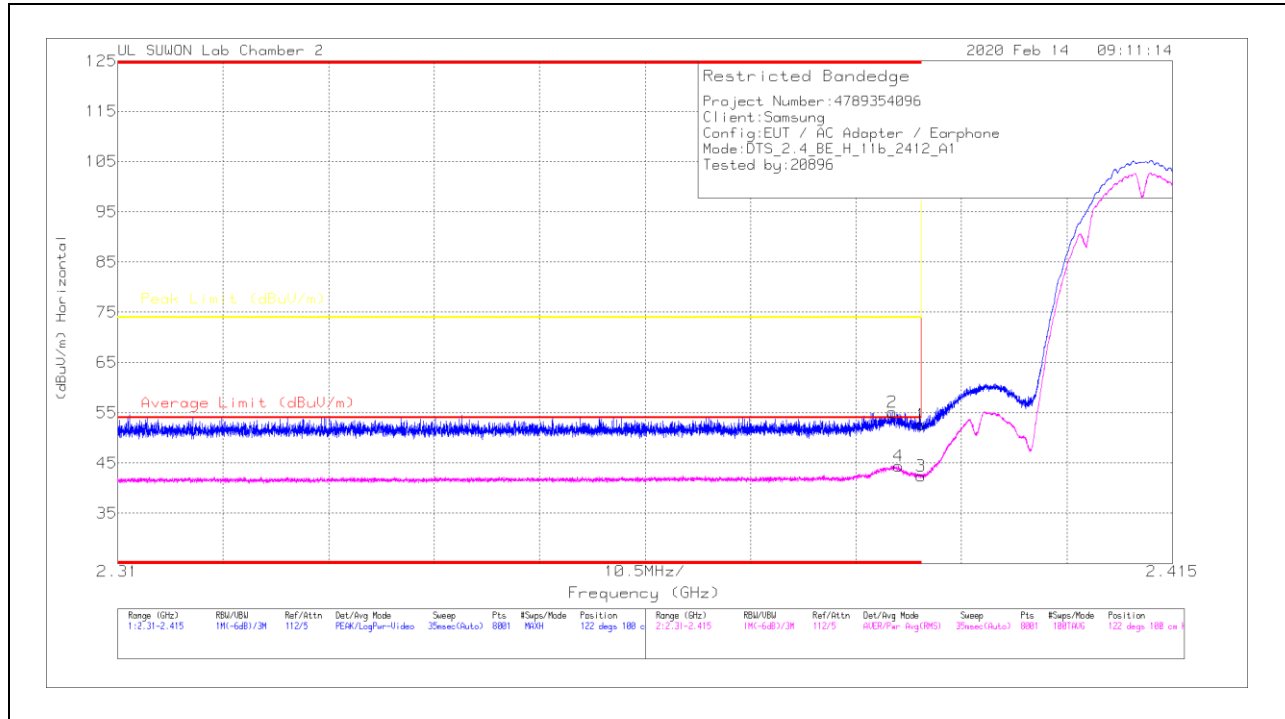
10.1. TRANSMITTER ABOVE 1 GHz

10.1.1. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND

1TX Antenna 1 MODE

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



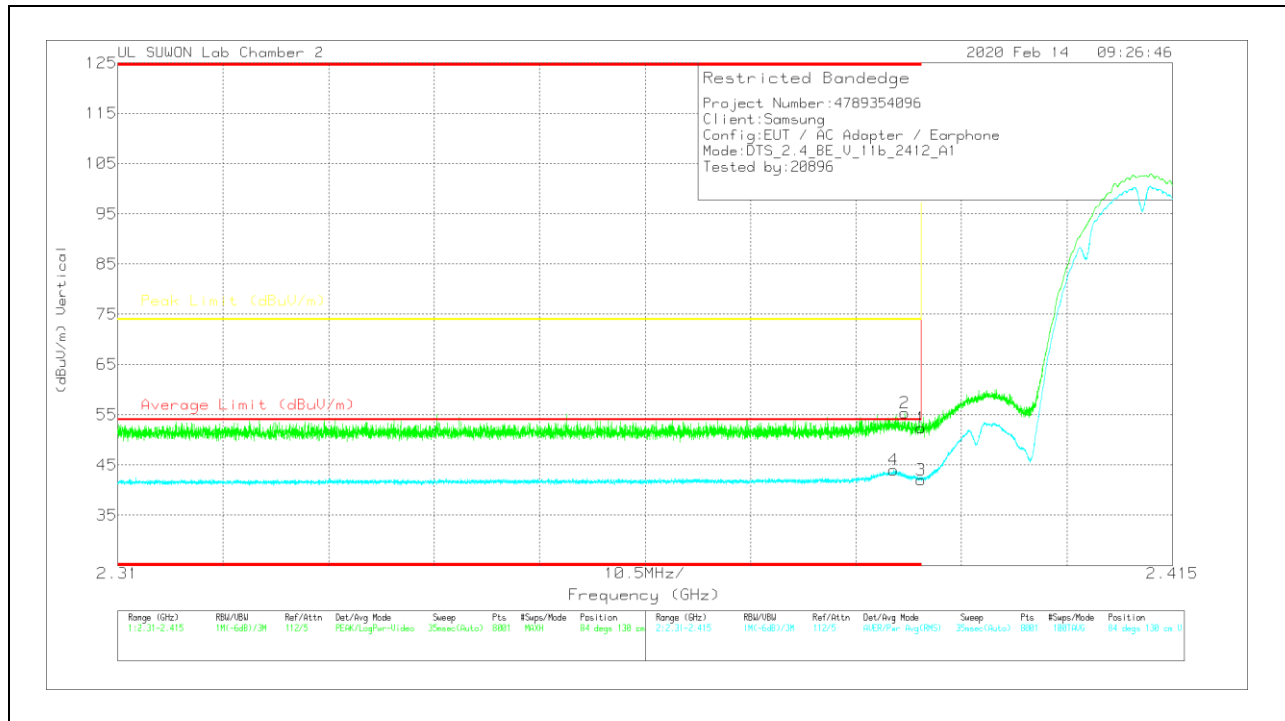
Marker	Frequency (GHz)	Meas Reading (dBu/m)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBu/m)	Average Limit (dBu/m)	Margin (dB)	Peak Limit (dBu/m)	Pk Margin (dB)	Altitude (m)	Height (cm)	Polarity
1	* 2.39	41.61	Pk	31.6	-20.6	0	52.61	-	-	74	-21.39	122	100	H
2	* 2.38712	44.12	Pk	31.6	-20.6	0	55.12	-	-	74	-18.88	122	100	H
3	* 2.39	31.45	RMS	31.6	-20.6	0	42.45	54	-11.55	-	-	122	100	H
4	* 2.38771	33.44	RMS	31.6	-20.6	0	44.44	54	-9.56	-	-	122	100	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (deg)	Height (cm)	Polarity
1	* 2.39	41.34	PK	31.6	-20.6	0	52.34	-	-	74	-21.66	84	130	V
2	* 2.38837	44.34	PK	31.6	-20.6	0	55.34	-	-	74	-18.66	84	130	V
3	* 2.39	31.06	RMS	31.6	-20.6	0	42.06	54	-11.94	-	-	84	130	V
4	* 2.38725	33.04	RMS	31.6	-20.6	0	44.04	54	-9.96	-	-	84	130	V

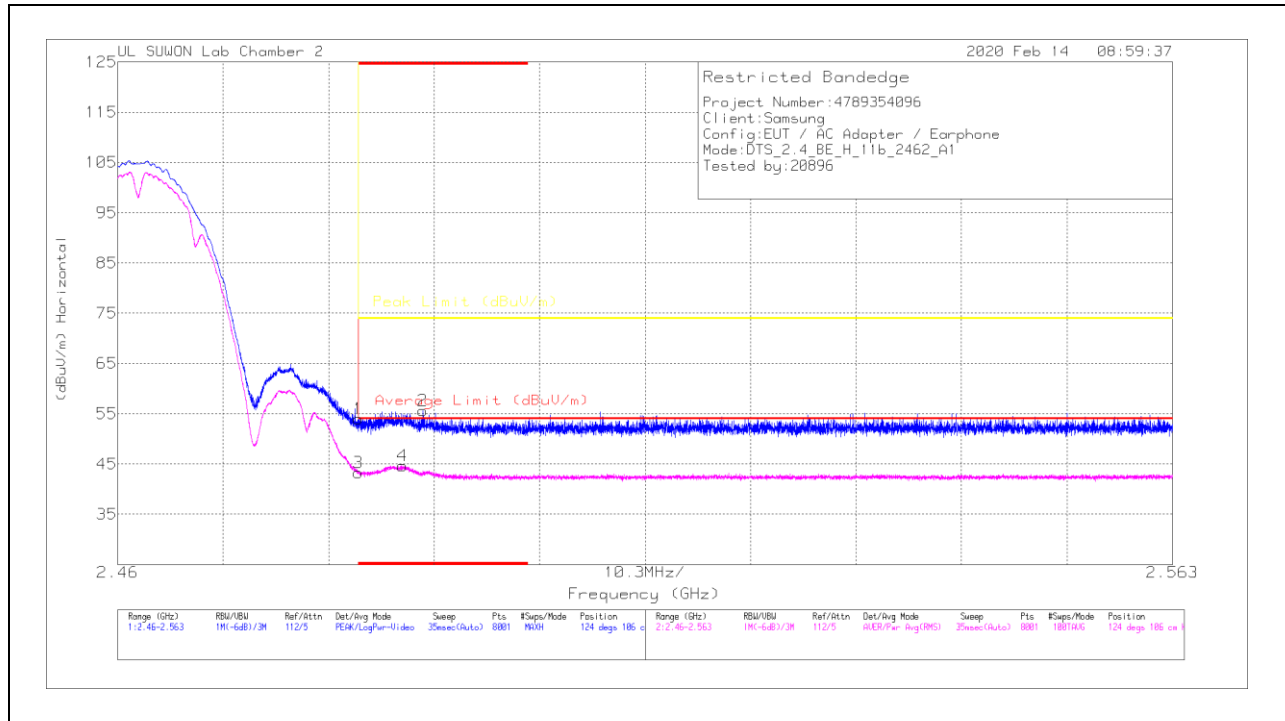
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 11)

HORIZONTAL RESULT



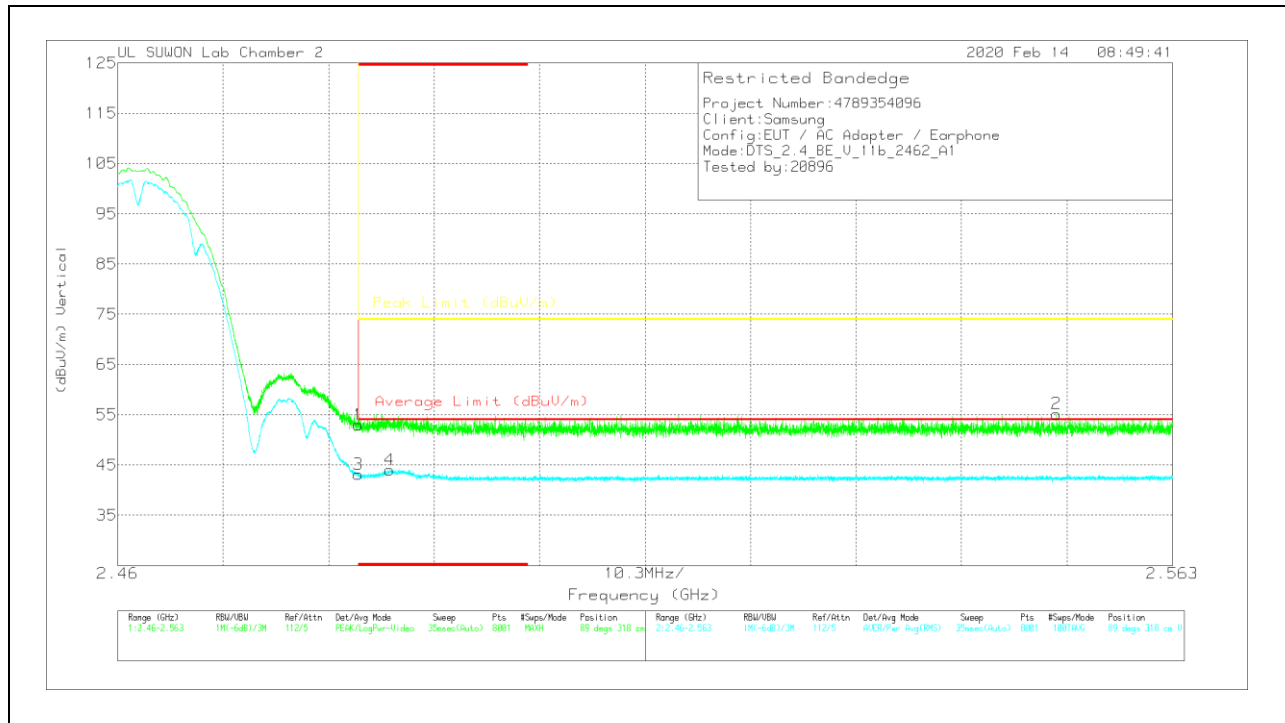
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (m)	Polarity
1	* 2.48351	42.51	Pk	31.9	-20.4	0	54.01	-	-	74	-19.99	124	106	H
2	* 2.48978	44.19	Pk	31.9	-20.5	0	55.59	-	-	74	-18.41	124	106	H
3	* 2.48351	31.74	RMS	31.9	-20.4	0	43.24	54	-10.76	-	-	124	106	H
4	* 2.48781	33.28	RMS	31.9	-20.5	0	44.68	54	-9.32	-	-	124	106	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1040_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (deg)	Height (cm)	Polarity
1	* 2.48351	41.5	PK	31.9	-20.4	0	53	-	-	74	-21	89	318	V
2	2.55168	43.68	PK	32	-20.5	0	55.18	-	-	74	-18.82	89	318	V
3	* 2.48351	31.69	RMS	31.9	-20.4	0	43.19	54	-10.81	-	-	89	318	V
4	* 2.48654	32.61	RMS	31.9	-20.5	0	44.01	54	-9.99	-	-	89	318	V

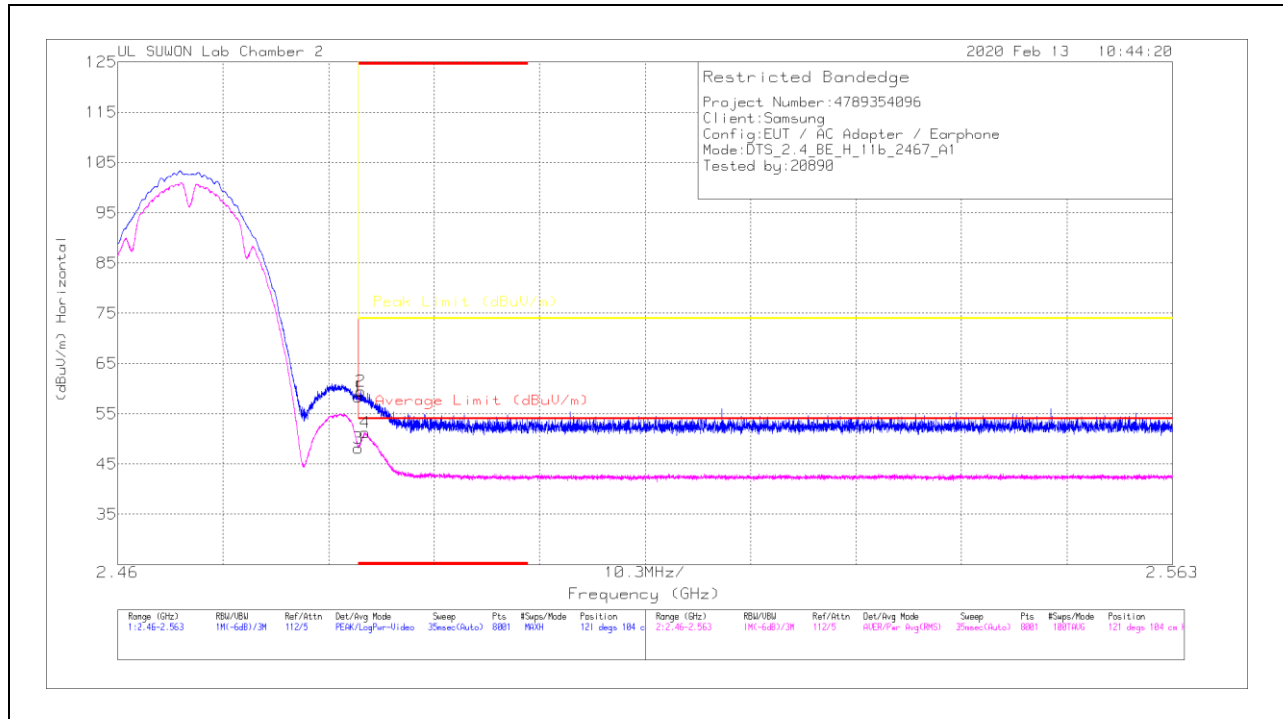
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 12)

HORIZONTAL RESULT



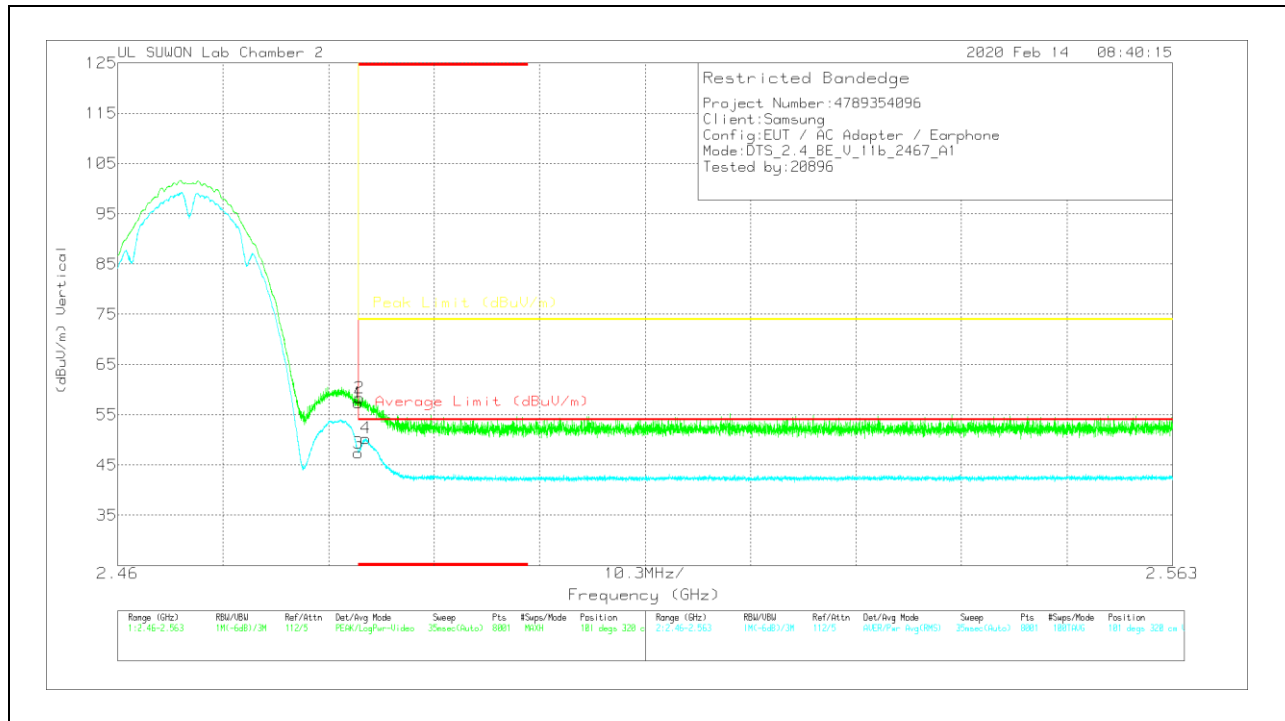
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (m)	Polarity
1	* 2.48351	46.85	PK	31.9	-20.4	0	58.35	-	-	74	-15.65	121	104	H
2	* 2.48377	47.95	PK	31.9	-20.4	0	59.45	-	-	74	-14.55	121	104	H
3	* 2.48351	36.68	RMS	31.9	-20.4	0	48.18	54	-5.82	-	-	121	104	H
4	* 2.48414	39.72	RMS	31.9	-20.4	0	51.22	54	-2.78	-	-	121	104	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBU/m)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBU/m)	Average Limit (dBU/m)	Margin (dB)	Peak Limit (dBU/m)	PK Margin (dB)	Azimuth (deg)	Height (cm)	Polarity
1	* 2.48351	45.91	PK	31.9	-20.4	0	57.41	-	-	74	-16.59	101	320	V
2	* 2.48364	46.86	PK	31.9	-20.4	0	58.36	-	-	74	-15.64	101	320	V
3	* 2.48351	35.93	RMS	31.9	-20.4	0	47.43	54	-6.57	-	-	101	320	V
4	* 2.48426	38.82	RMS	31.9	-20.4	0	50.32	54	-3.68	-	-	101	320	V

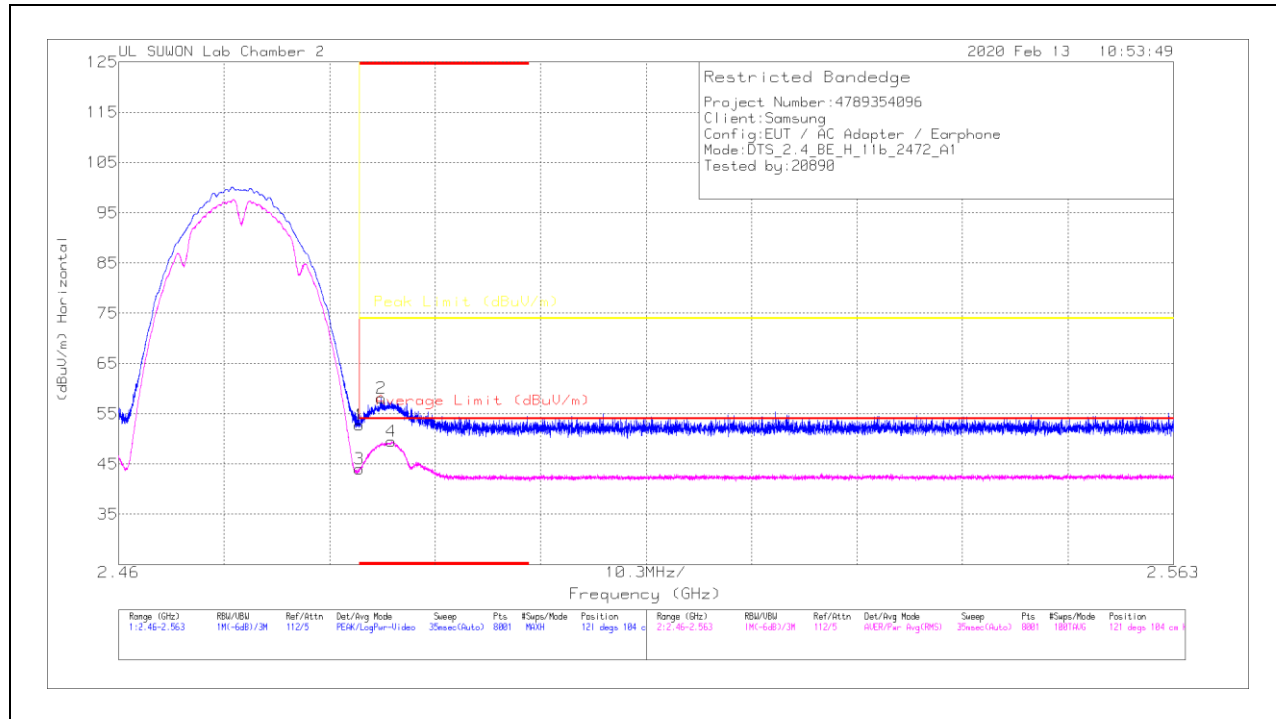
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 13)

HORIZONTAL RESULT



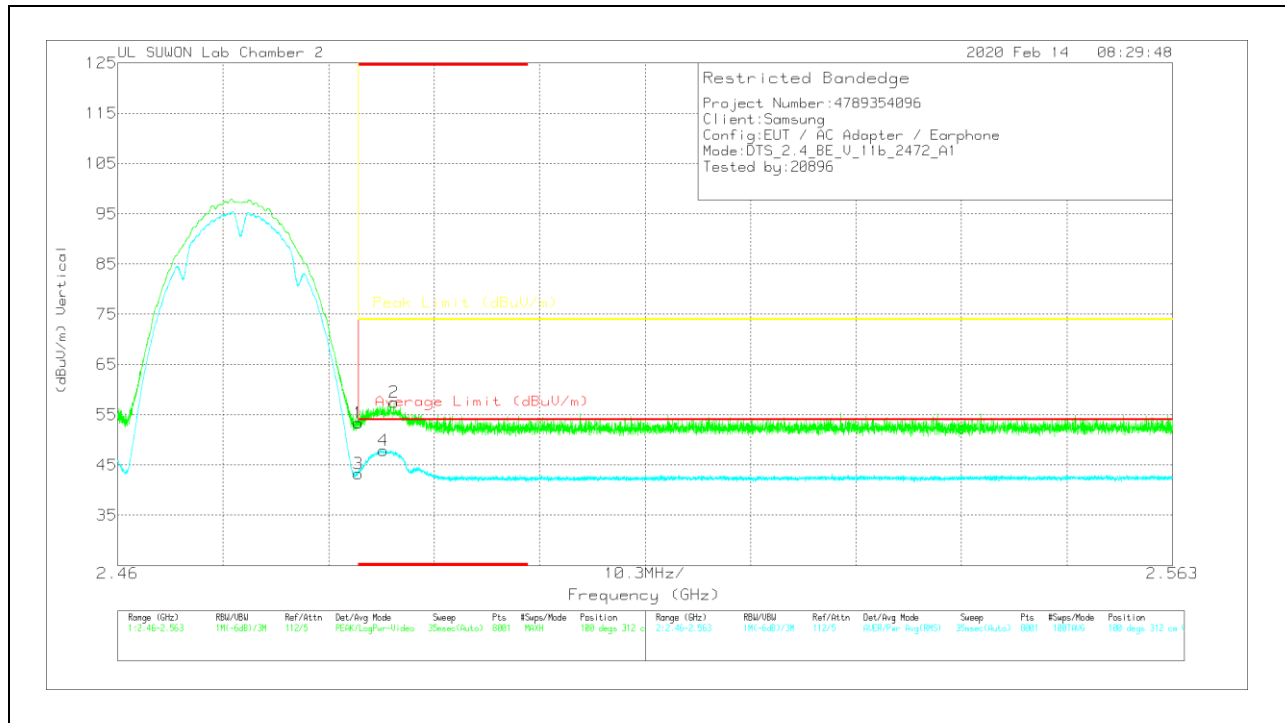
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (m)	Polarity
1	* 2.48351	41.21	PK	31.9	-20.4	0	52.71	-	-	74	-21.29	121	104	H
2	* 2.48563	45.57	PK	31.9	-20.4	0	58.07	-	-	74	-15.93	121	104	H
3	* 2.48351	32.5	RMS	31.9	-20.4	0	44	54	-10	-	-	121	104	H
4	* 2.48561	38.11	RMS	31.9	-20.5	0	49.51	54	-4.49	-	-	121	104	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (deg)	Height (cm)	Polarity
1	* 2.48351	41.9	PK	31.9	-20.4	0	53.4	-	-	74	-20.6	100	312	V
2	* 2.48699	46.06	PK	31.9	-20.5	0	57.46	-	-	74	-16.54	100	312	V
3	* 2.48351	31.8	RMS	31.9	-20.4	0	43.3	54	-10.7	-	-	100	312	V
4	* 2.48596	36.51	RMS	31.9	-20.5	0	47.91	54	-6.09	-	-	100	312	V

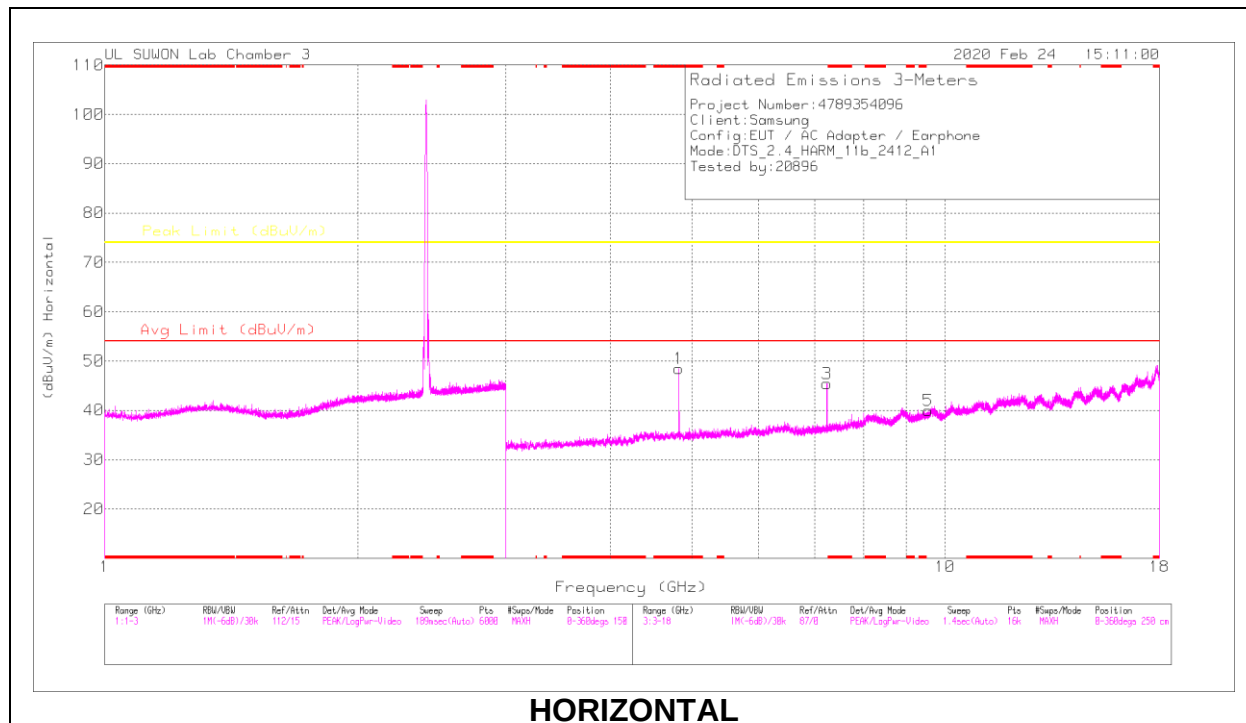
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

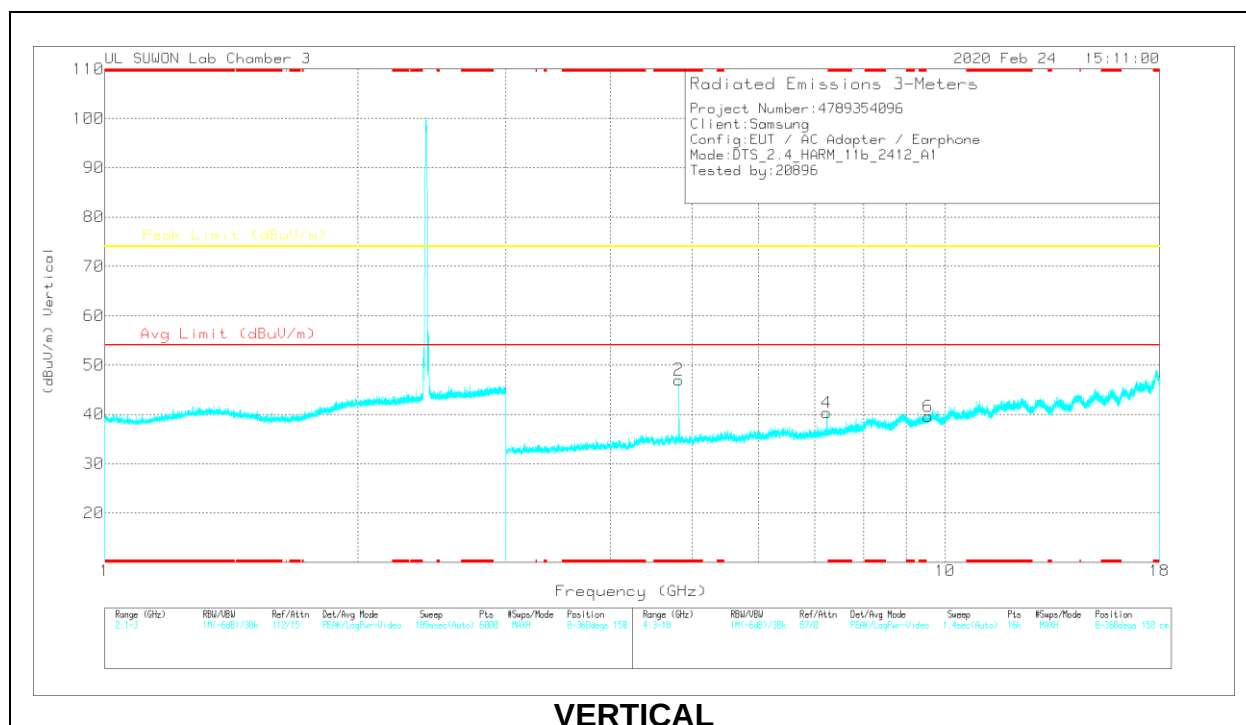
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, CH 1 RESULTS



HORIZONTAL



VERTICAL

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

RADIATED EMISSIONS

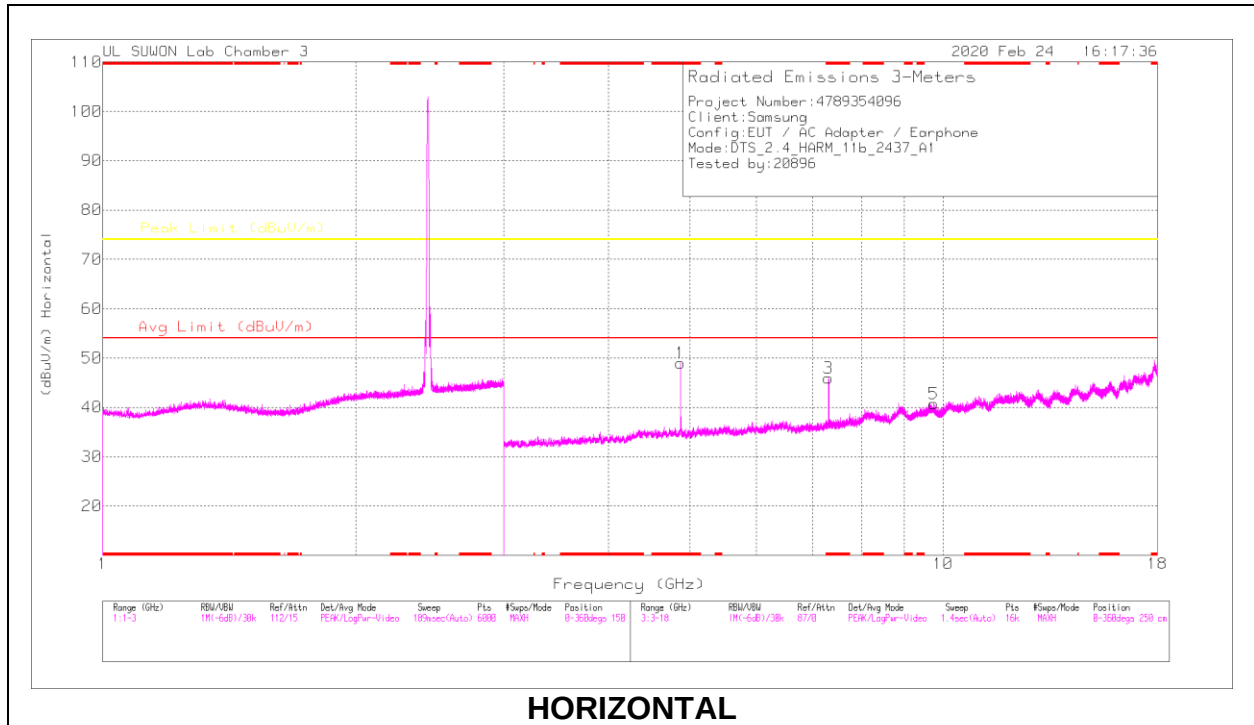
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.82409	45.99	PK2	34.2	-28.1	0	52.09	-	-	74	-21.91	69	189	H
* 4.82399	42.33	MAv1	34.2	-28.1	0	48.43	54	-5.57	-	-	69	189	H
* 4.82395	45.46	PK2	34.2	-28.1	0	51.56	-	-	74	-22.44	90	302	V
* 4.82399	41.63	MAv1	34.2	-28.1	0	47.73	54	-6.27	-	-	90	302	V
7.235	40.4	PK2	35.8	-23.7	0	52.5	-	-	74	-21.5	71	108	H
7.23502	37.92	PK2	35.8	-23.7	0	50.02	-	-	74	-23.98	330	359	V
9.53538	29.9	PK2	36.9	-19.7	0	47.1	-	-	74	-26.9	0	100	H
9.54584	29.7	PK2	36.9	-19.7	0	46.9	-	-	74	-27.1	0	100	V

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

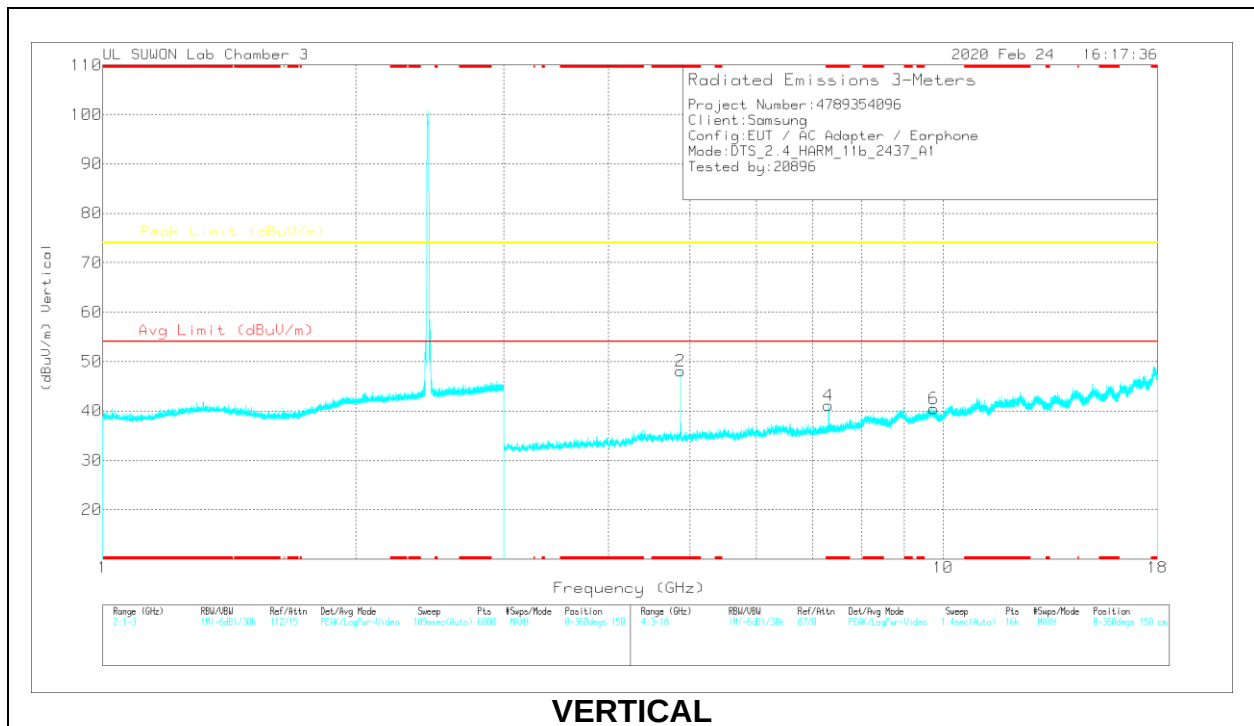
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL, CH 6 RESULTS



HORIZONTAL



VERTICAL

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

RADIATED EMISSIONS

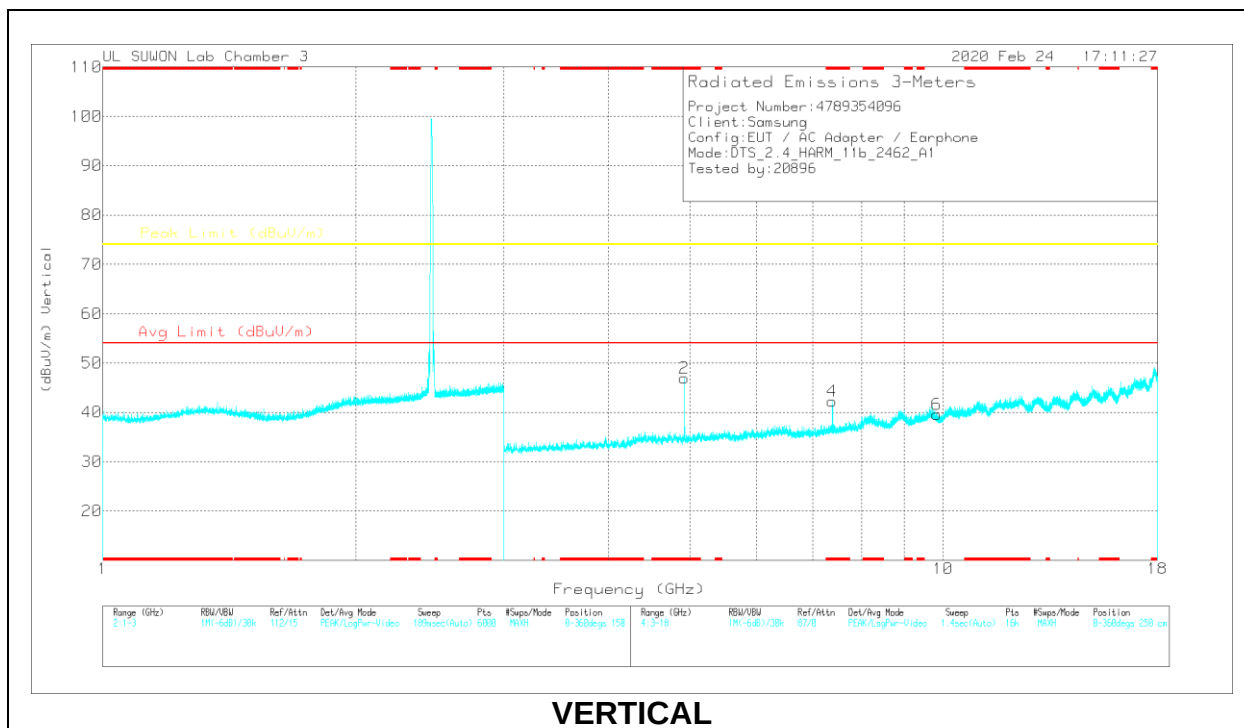
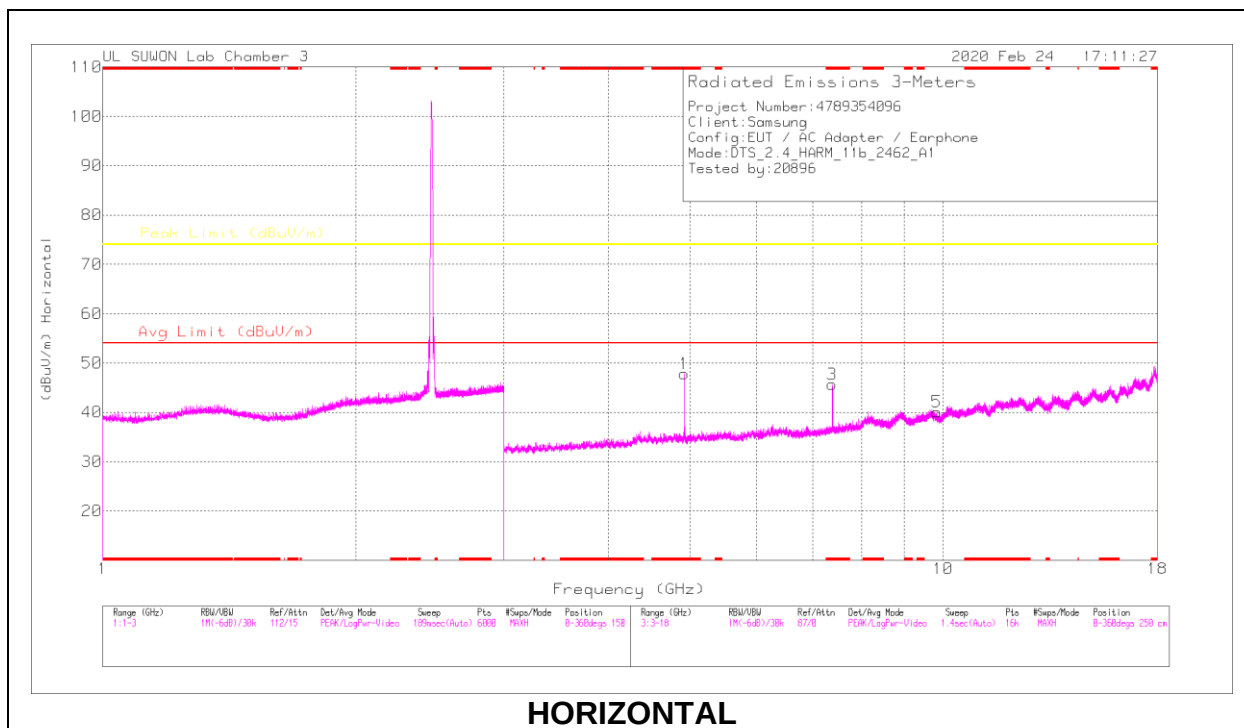
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0020595 9	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.874	46.66	PK2	34.2	-28.7	0	52.16	-	-	74	-21.84	64	100	H
* 4.874	43.42	MAv1	34.2	-28.7	0	48.92	54	-5.08	-	-	64	100	H
* 4.87404	46.36	PK2	34.2	-28.7	0	51.86	-	-	74	-22.14	83	277	V
* 4.87396	42.87	MAv1	34.2	-28.7	0	48.37	54	-5.63	-	-	83	277	V
* 7.3102	40.36	PK2	35.8	-23.3	0	52.86	-	-	74	-21.14	66	115	H
* 7.31032	34.52	MAv1	35.8	-23.3	0	47.02	54	-6.98	-	-	66	115	H
* 7.3102	37.92	PK2	35.8	-23.3	0	50.42	-	-	74	-23.58	334	371	V
* 7.312	30.67	MAv1	35.8	-23.3	0	43.17	54	-10.83	-	-	334	371	V
9.74412	29.58	PK2	37.2	-19.3	0	47.48	-	-	74	-26.52	0	100	H
9.75509	29.74	PK2	37.2	-19.3	0	47.64	-	-	74	-26.36	0	100	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL, CH 11 RESULTS



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0020595 -9	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.92401	46.5	PK2	34.2	-28.8	0	51.9	-	-	74	-22.1	65	101	H
* 4.92393	42.97	MAv1	34.2	-28.8	0	48.37	54	-5.63	-	-	65	101	H
* 4.92413	46.72	PK2	34.2	-28.8	0	52.12	-	-	74	-21.88	85	291	V
* 4.92401	42.58	MAv1	34.2	-28.8	0	47.98	54	-6.02	-	-	85	291	V
* 7.38704	39.6	PK2	35.8	-22.7	0	52.7	-	-	74	-21.3	109	166	H
* 7.38688	33.61	MAv1	35.8	-22.7	0	46.71	54	-7.29	-	-	109	166	H
* 7.38692	38.08	PK2	35.8	-22.7	0	51.18	-	-	74	-22.82	337	352	V
* 7.38688	31.5	MAv1	35.8	-22.7	0	44.6	54	-9.4	-	-	337	352	V
9.83448	30.12	PK2	37.4	-19.4	0	48.12	-	-	74	-25.88	0	100	H
9.81575	28.97	PK2	37.3	-19.5	0	46.77	-	-	74	-27.23	0	100	V

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

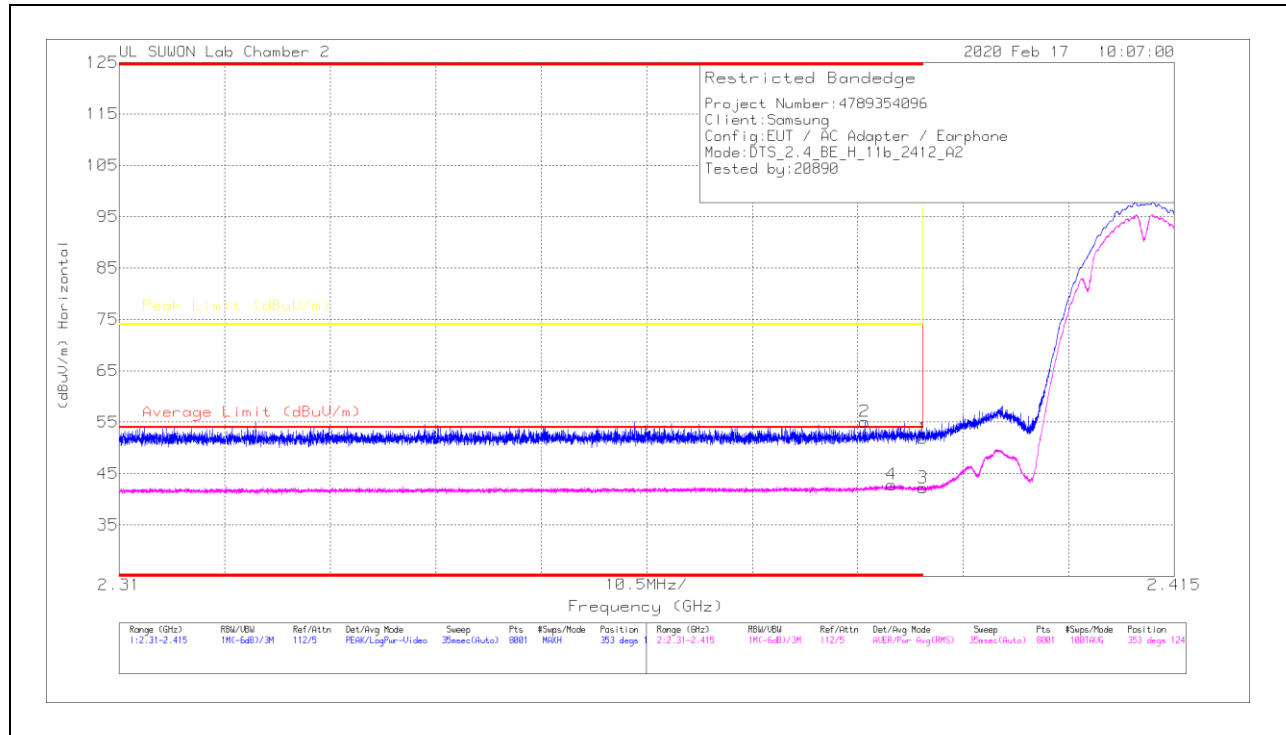
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

1TX Antenna 2 MODE

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



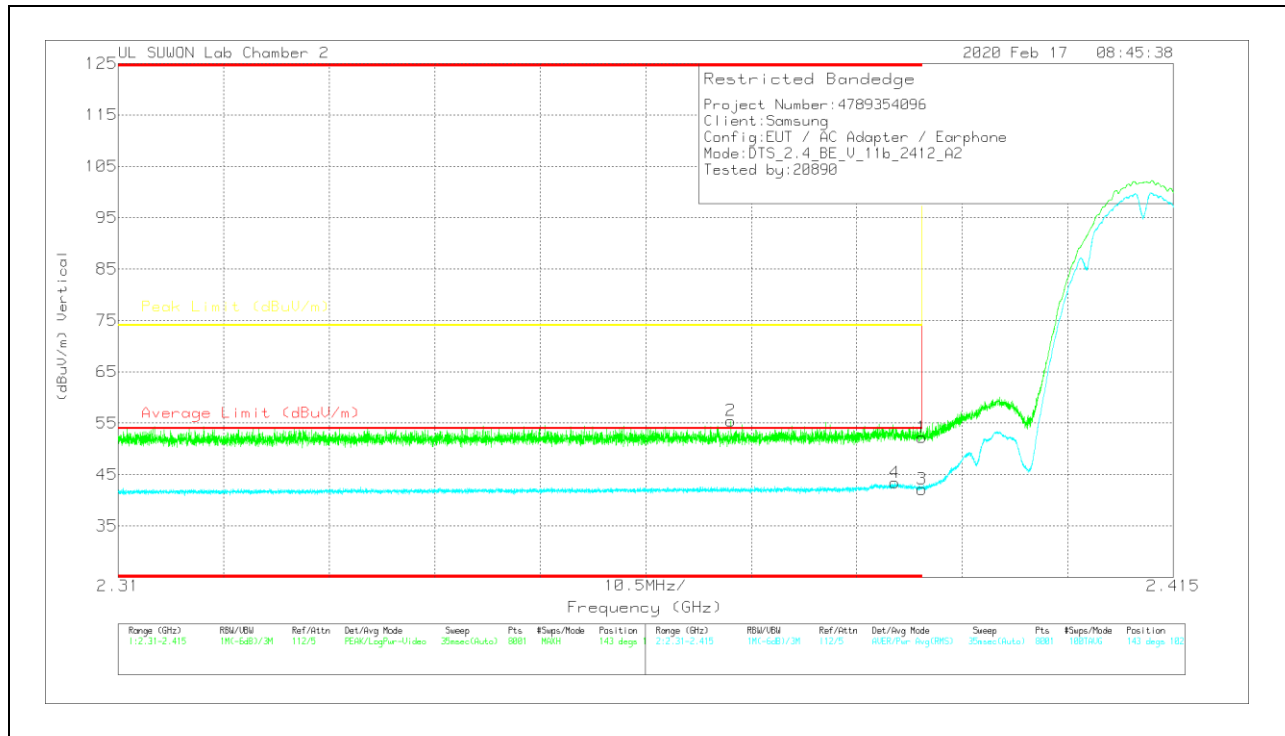
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (deg)	Height (cm)	Polarity
1	* 2.39	40.85	PK	31.6	-20.6	0	51.85	-	-	74	-22.15	353	124	H
2	* 2.3842	44.11	PK	31.6	-20.6	0	55.11	-	-	74	-18.89	353	124	H
3	* 2.39	31.22	RMS	31.6	-20.6	0	42.22	54	-11.78	-	-	353	124	H
4	* 2.38685	31.89	RMS	31.6	-20.6	0	42.89	54	-11.11	-	-	353	124	H

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

PK - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.23	Pk	31.6	-20.6	0	52.23	-	-	74	-21.77	143	102	V
2	* 2.37095	44.57	Pk	31.6	-20.7	0	55.47	-	-	74	-18.53	143	102	V
3	* 2.39	31.17	RMS	31.6	-20.6	0	42.17	54	-11.83	-	-	143	102	V
4	* 2.38727	32.42	RMS	31.6	-20.6	0	43.42	54	-10.58	-	-	143	102	V

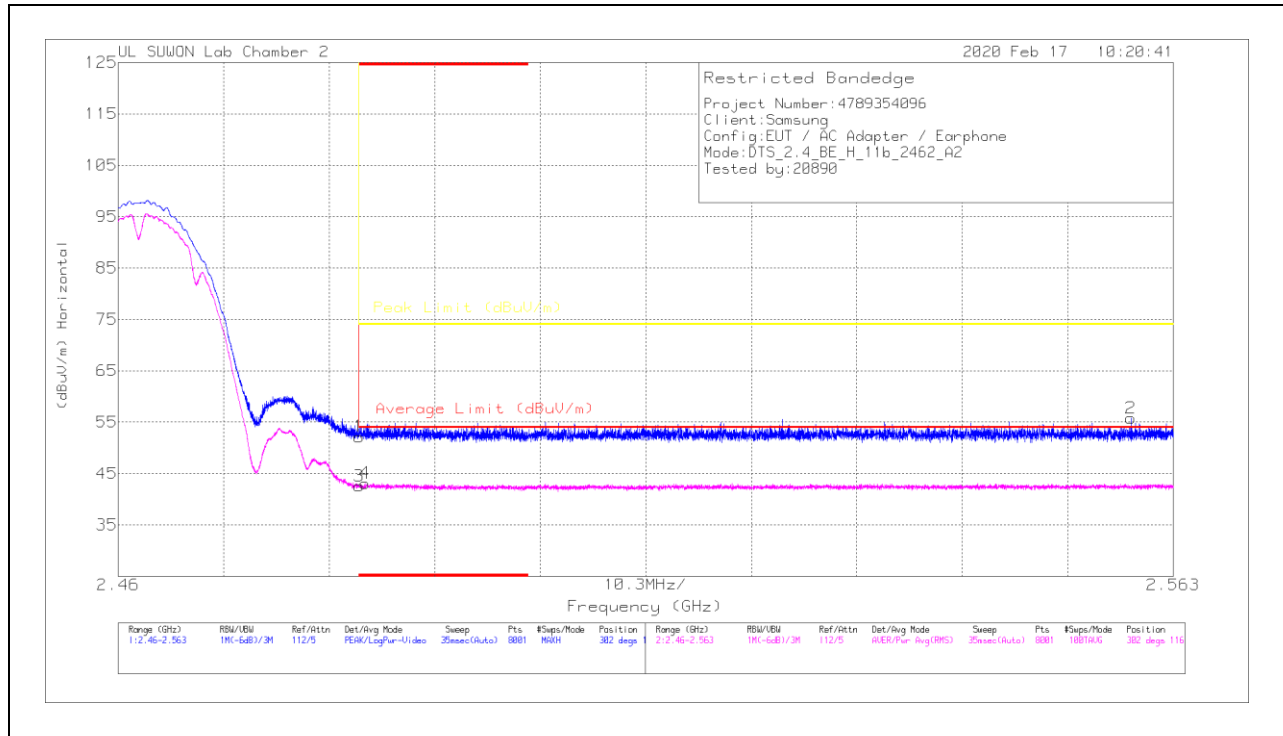
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 11)

HORIZONTAL RESULT



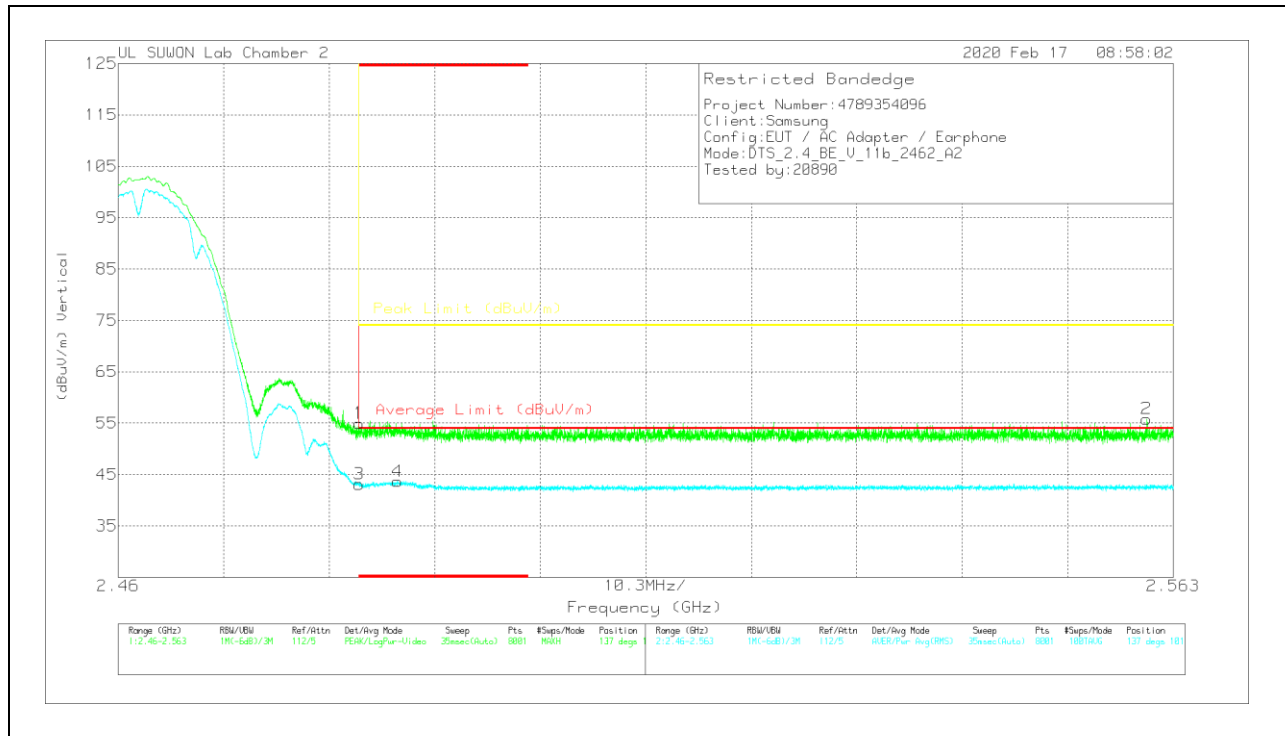
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	40.67	PK	31.9	-20.4	0	52.17	-	-	74	-21.93	302	116	H
2	* 2.55885	44.17	PK	32	-20.4	0	55.77	-	-	74	-18.23	302	116	H
3	* 2.48351	31.06	RMS	31.9	-20.4	0	42.56	54	-11.44	-	-	302	116	H
4	* 2.48409	31.61	RMS	31.9	-20.4	0	43.11	54	-10.89	-	-	302	116	H

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

PK - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	43.47	Pk	31.9	-20.4	0	54.97	-	-	74	-19.03	137	101	V
2	2.56039	44.25	Pk	32	-20.4	0	55.85	-	-	74	-18.15	137	101	V
3	* 2.48351	31.64	RMS	31.9	-20.4	0	43.14	54	-10.86	-	-	137	101	V
4	* 2.48726	32.28	RMS	31.9	-20.5	0	43.68	54	-10.32	-	-	137	101	V

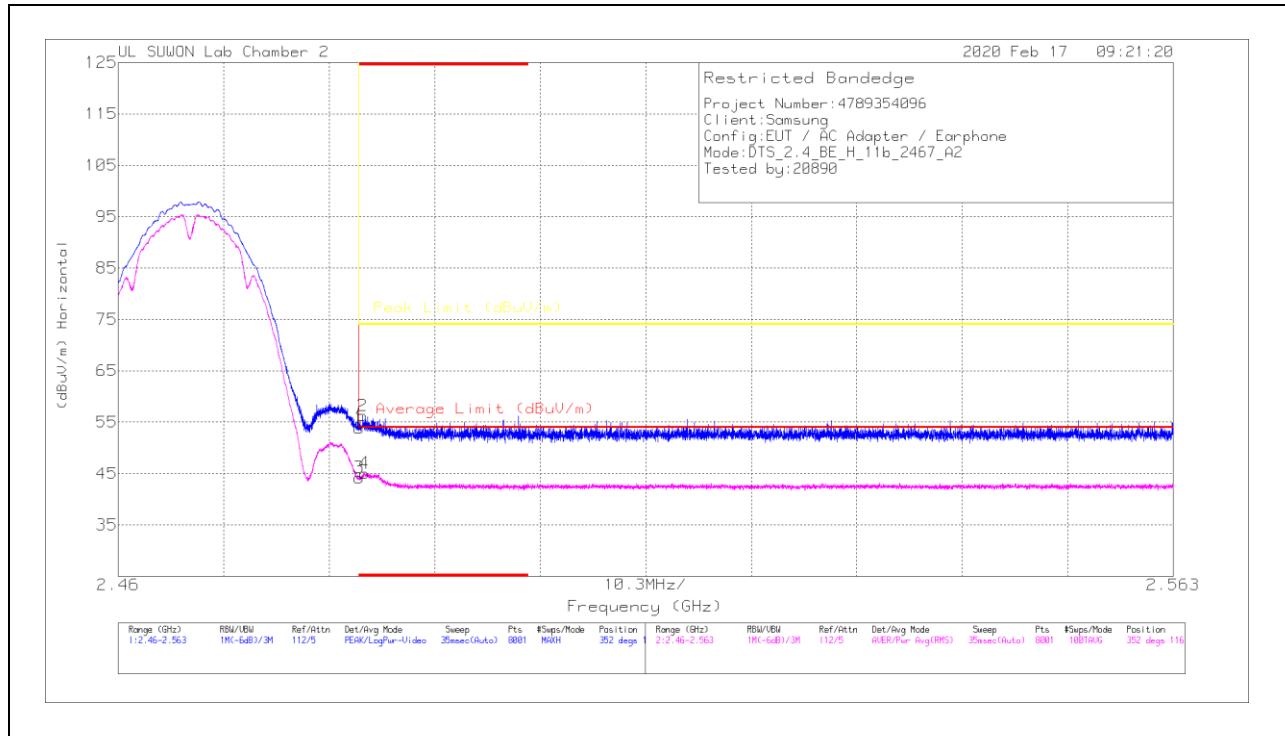
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 12)

HORIZONTAL RESULT



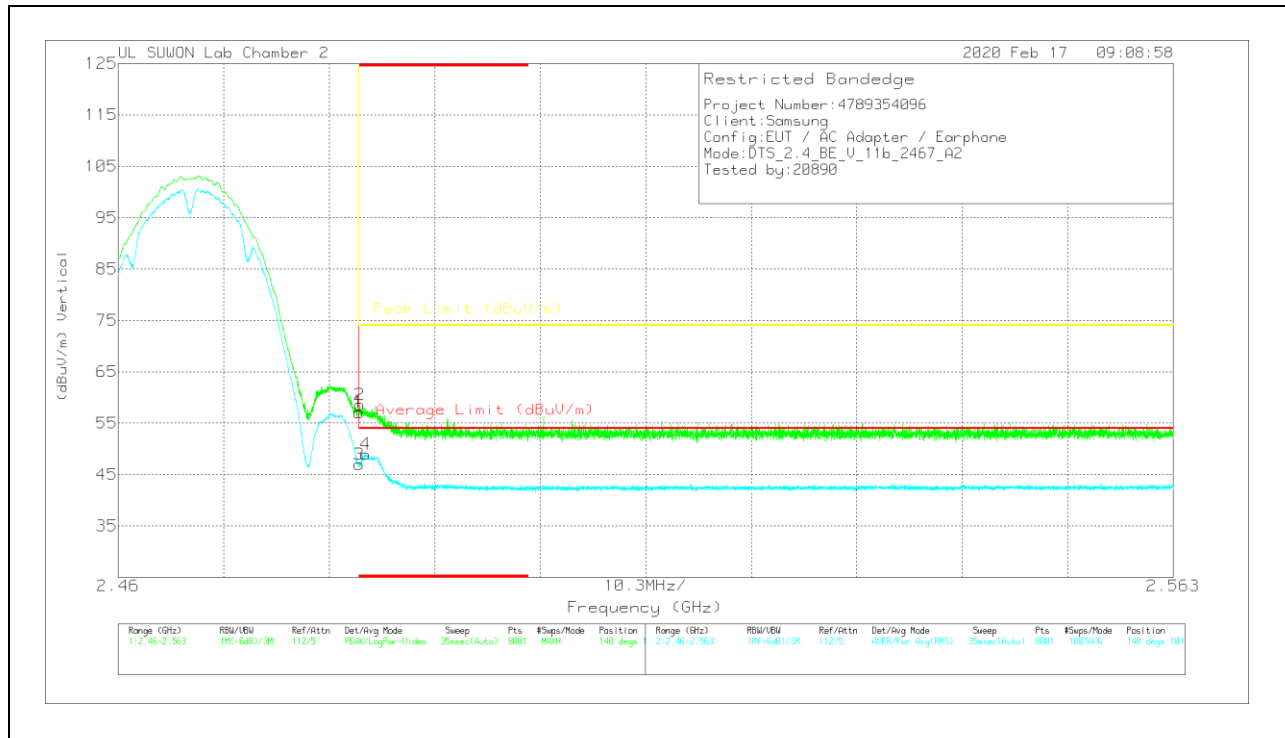
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	42.37	PK	31.9	-20.4	0	53.07	-	-	74	-20.13	352	116	H
2	* 2.48386	44.77	PK	31.9	-20.4	0	56.27	-	-	74	-17.73	352	116	H
3	* 2.48351	32.72	RMS	31.9	-20.4	0	44.22	54	-9.78	-	-	352	116	H
4	* 2.48404	33.54	RMS	31.9	-20.4	0	45.04	54	-8.96	-	-	352	116	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Pk Margin (dB)	Acimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	45.58	Pk	31.9	-20.4	0	57.08	-	-	74	-16.92	140	101	V
2	* 2.48357	47.08	Pk	31.9	-20.4	0	58.58	-	-	74	-15.42	140	101	V
3	* 2.48351	35.48	RMS	31.9	-20.4	0	46.98	54	-7.02	-	-	140	101	V
4	* 2.48417	37.46	RMS	31.9	-20.4	0	48.96	54	-5.04	-	-	140	101	V

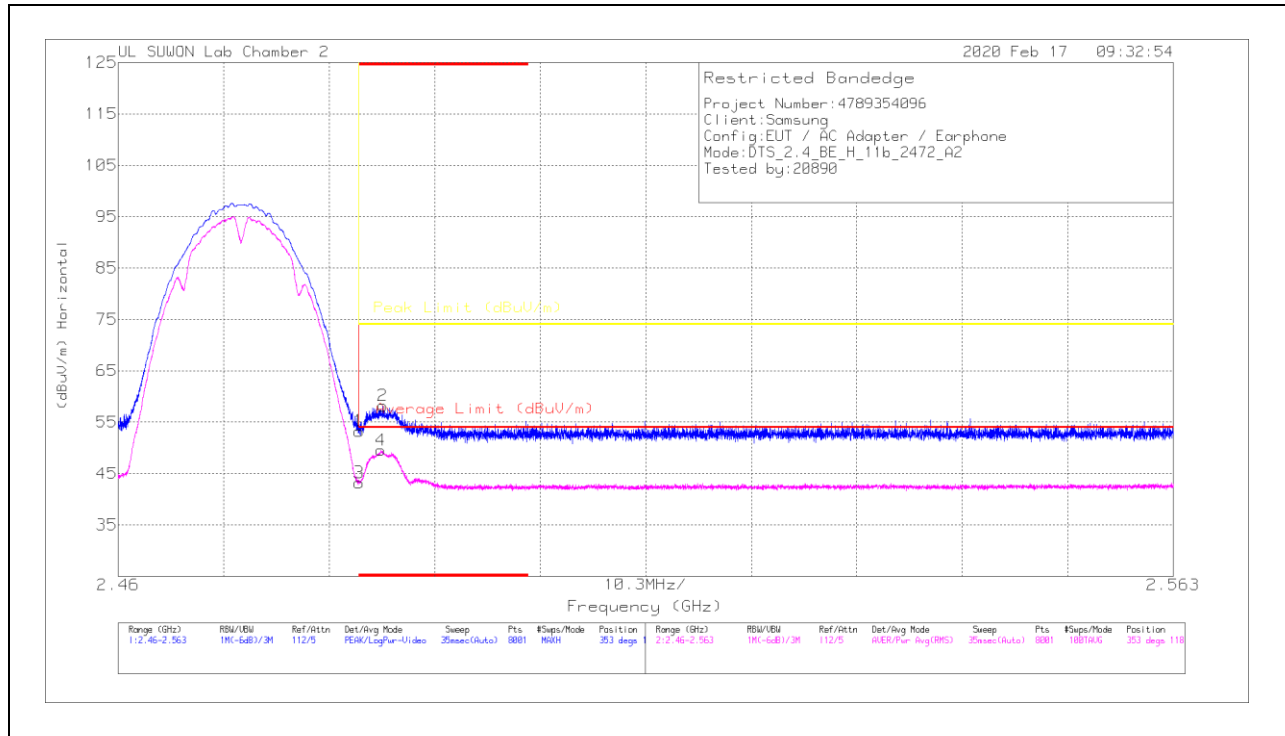
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 13)

HORIZONTAL RESULT



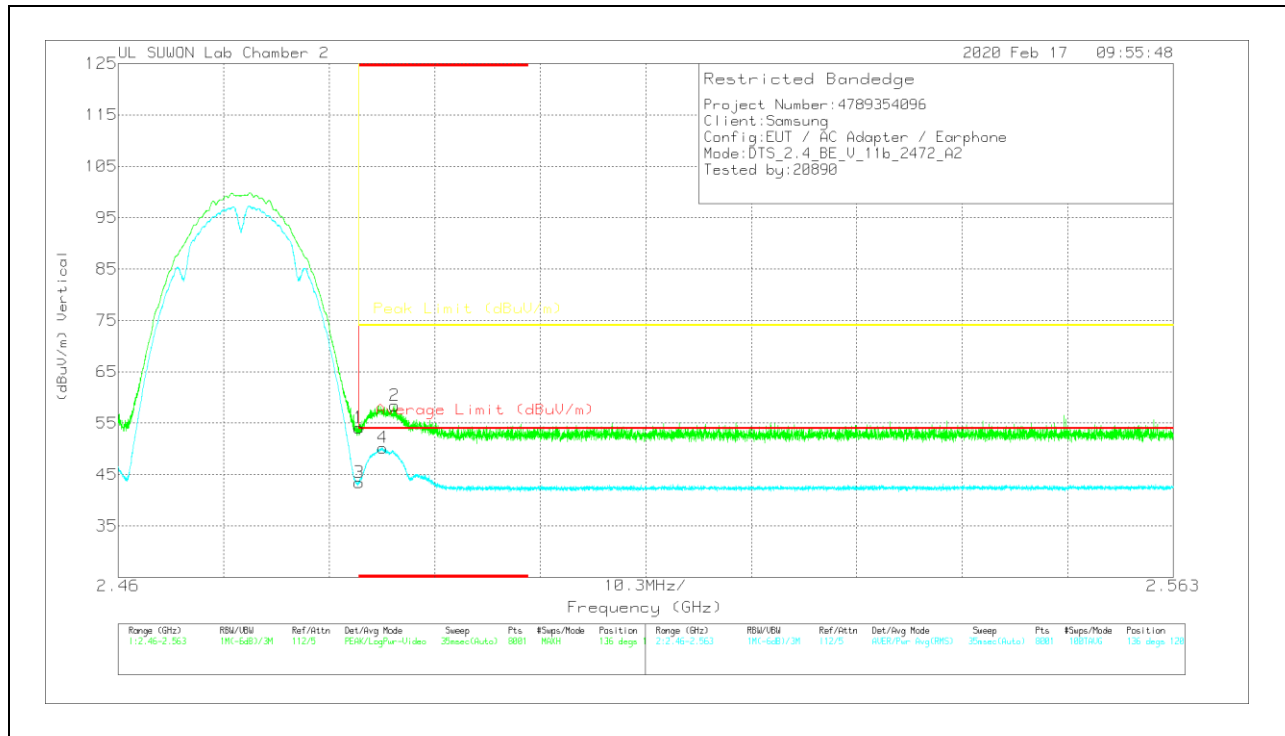
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	41.75	PK	31.9	-20.4	0	53.25	-	-	74	-20.75	353	118	H
2	* 2.48584	46.78	PK	31.9	-20.5	0	58.18	-	-	74	-15.82	353	118	H
3	* 2.48351	31.7	RMS	31.9	-20.4	0	43.2	54	-10.8	-	-	353	118	H
4	* 2.48563	38.04	RMS	31.9	-20.4	0	49.54	54	-4.46	-	-	353	118	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.48351	42.62	Pk	31.9	-20.4	0	54.12	-	-	74	-19.88	136	120	V
2	* 2.48697	47.03	Pk	31.9	-20.5	0	58.43	-	-	74	-15.57	136	120	V
3	* 2.48351	31.95	RMS	31.9	-20.4	0	43.45	54	-10.55	-	-	136	120	V
4	* 2.4858	38.82	RMS	31.9	-20.5	0	50.22	54	-3.78	-	-	136	120	V

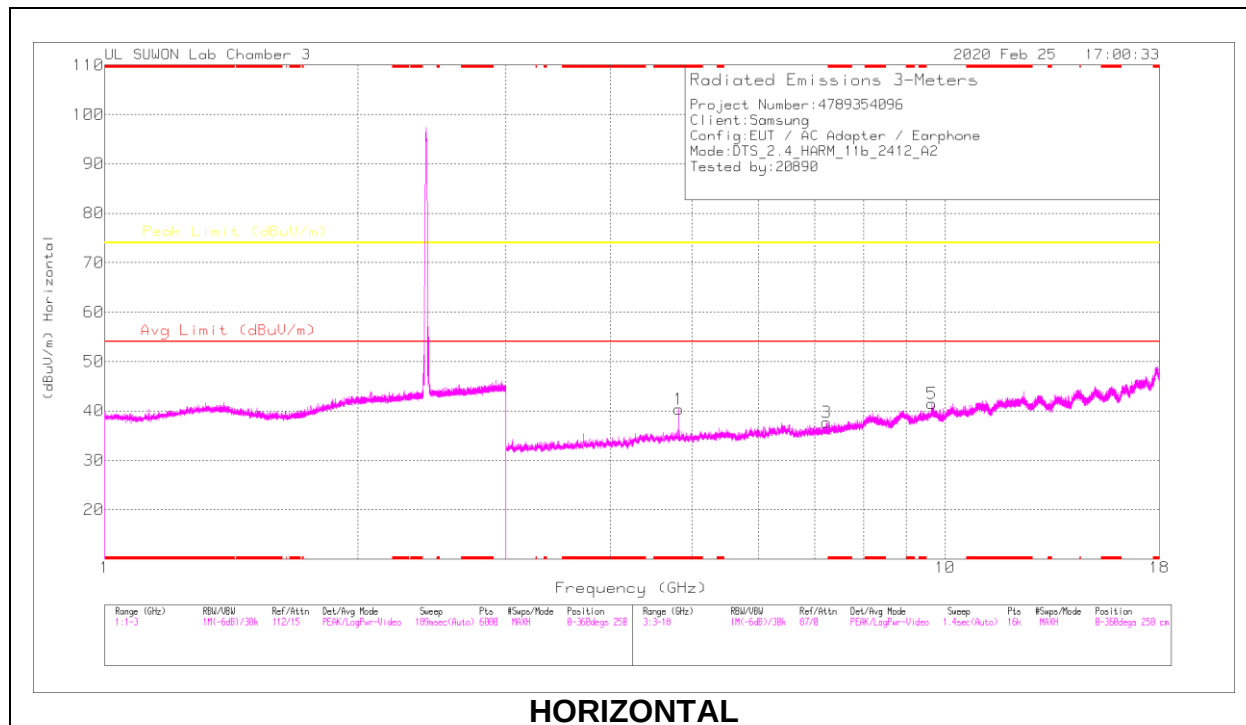
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

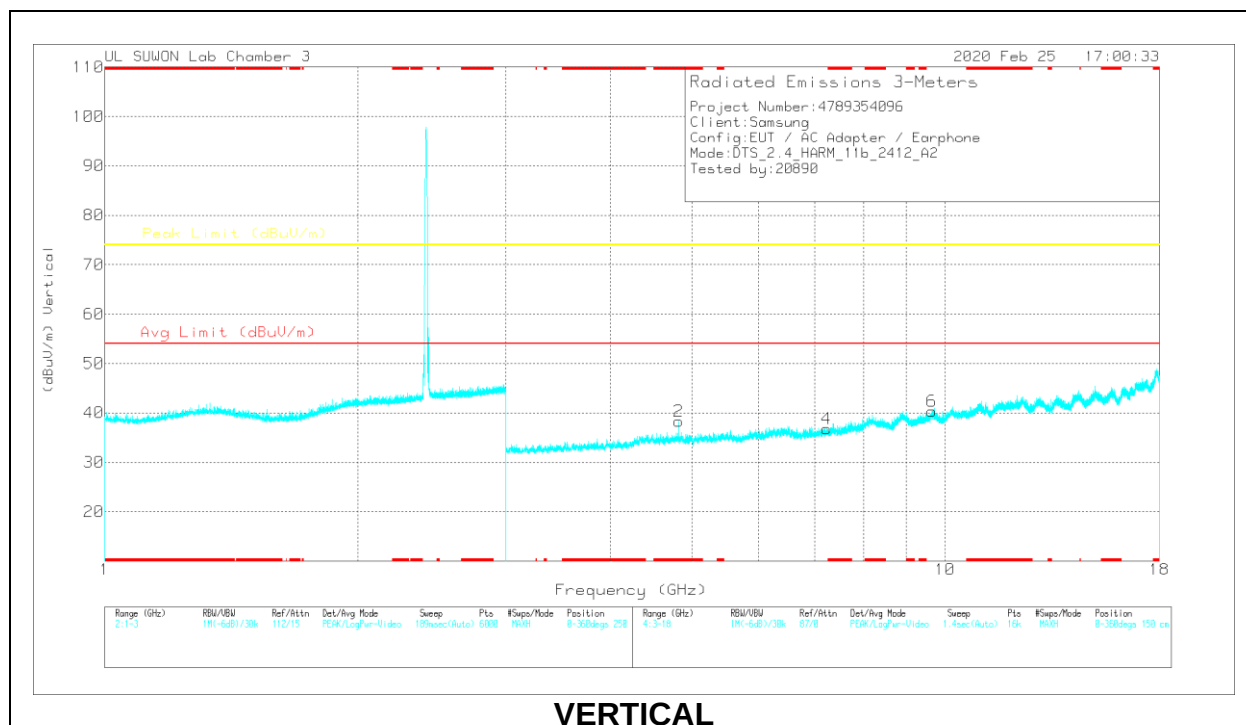
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, CH 1 RESULTS



HORIZONTAL



VERTICAL

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

RADIATED EMISSIONS

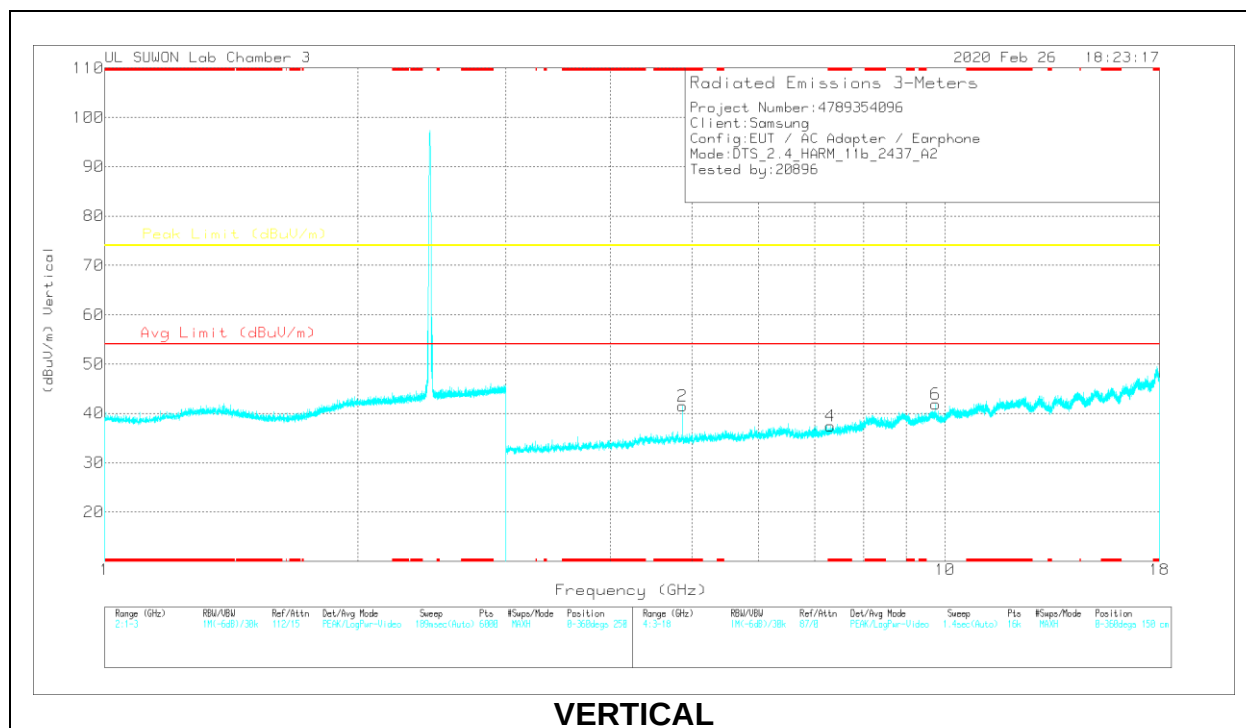
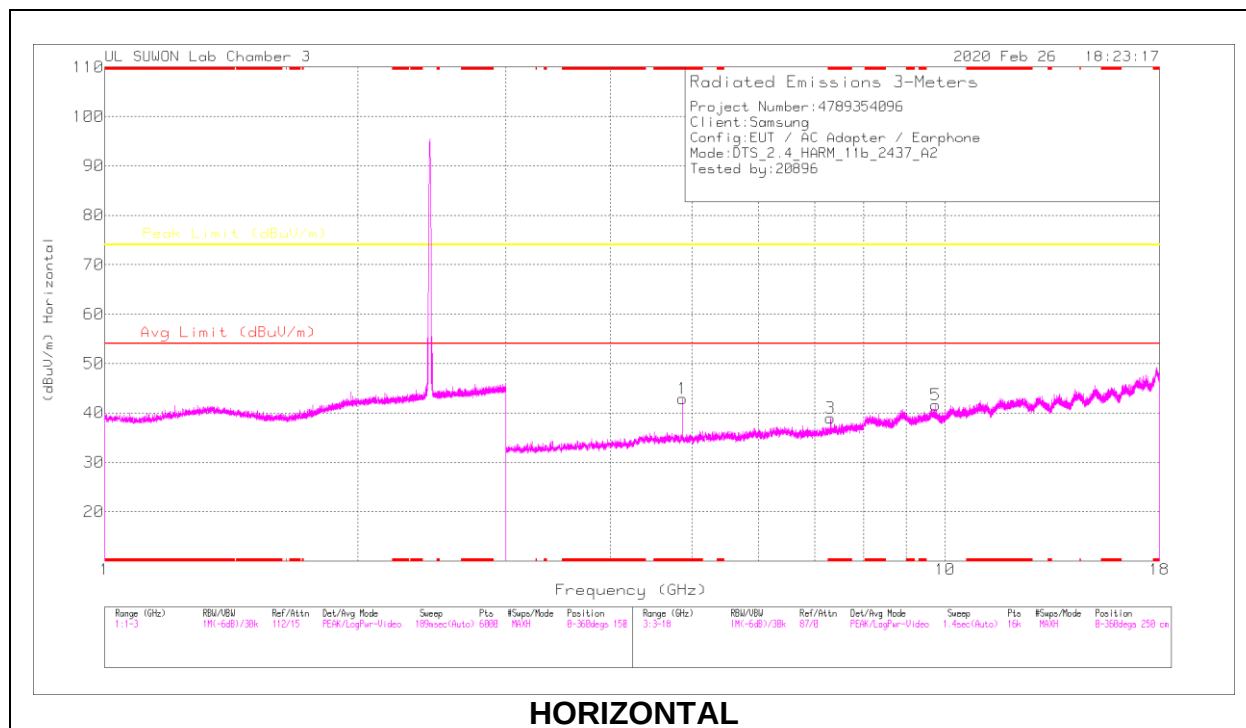
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0020595 ₉	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.82375	40.9	PK2	34.2	-28.1	0	47	-	-	74	-27	305	243	H
* 4.82397	34.18	MAv1	34.2	-28.1	0	40.28	54	-13.72	-	-	305	243	H
* 4.82409	40.27	PK2	34.2	-28.1	0	46.37	-	-	74	-27.63	168	159	V
* 4.82405	31.12	MAv1	34.2	-28.1	0	37.22	54	-16.78	-	-	168	159	V
7.23667	35.6	PK2	35.8	-23.7	0	47.7	-	-	74	-26.3	0	100	H
7.23713	35.39	PK2	35.8	-23.7	0	47.49	-	-	74	-26.51	0	100	V
9.64804	33.12	PK2	37.1	-19.5	0	50.72	-	-	74	-23.28	15	303	H
9.64818	33.01	PK2	37.1	-19.5	0	50.61	-	-	74	-23.39	350	100	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL, CH 6 RESULTS



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

RADIATED EMISSIONS

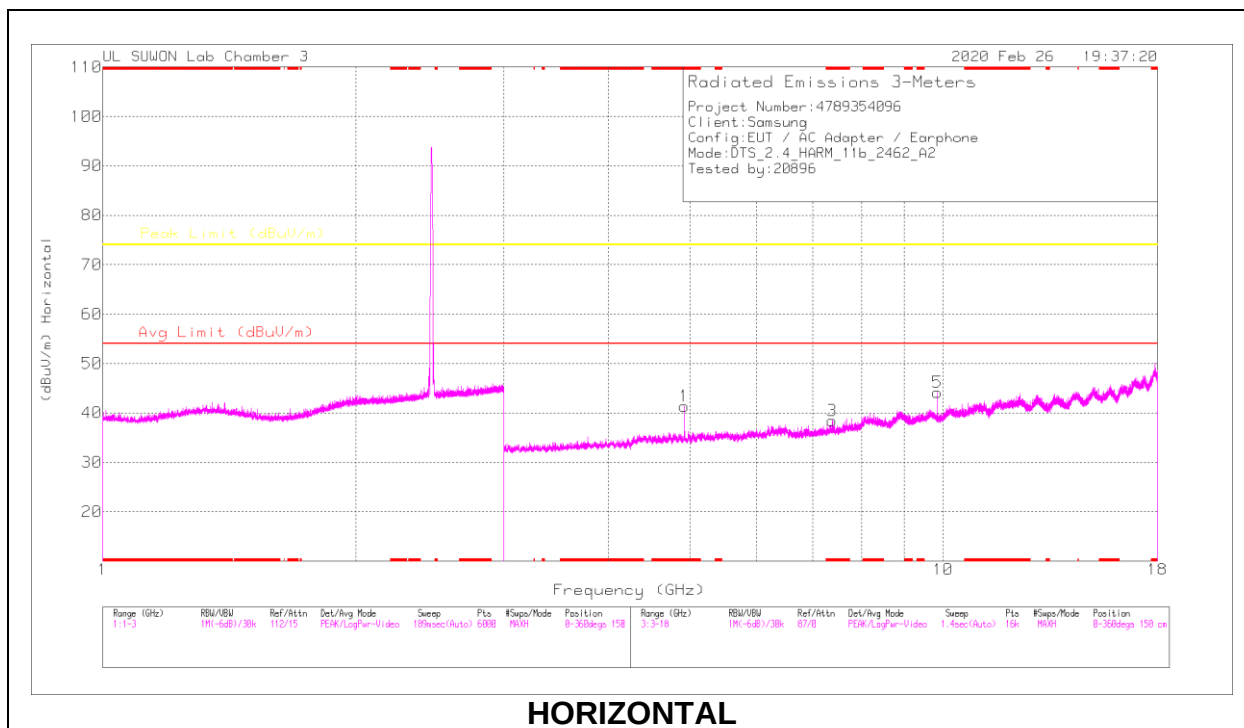
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0020595 9	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.87378	42.35	PK2	34.2	-28.7	0	47.85	-	-	74	-26.15	306	128	H
* 4.87394	36.13	MAv1	34.2	-28.7	0	41.63	54	-12.37	-	-	306	128	H
* 4.87374	40.33	PK2	34.2	-28.7	0	45.83	-	-	74	-28.17	322	173	V
* 4.87398	32.78	MAv1	34.2	-28.7	0	38.28	54	-15.72	-	-	322	173	V
* 7.31328	36.08	PK2	35.8	-23.4	0	48.48	-	-	74	-25.52	30	287	H
* 7.31008	25.93	MAv1	35.8	-23.3	0	38.43	54	-15.57	-	-	30	287	H
* 7.30888	34.97	PK2	35.8	-23.4	0	47.37	-	-	74	-26.63	43	107	V
* 7.30976	24.54	MAv1	35.8	-23.4	0	36.94	54	-17.06	-	-	43	107	V
9.74793	33.44	PK2	37.2	-19.3	0	51.34	-	-	74	-22.66	29	191	H
9.74793	31.88	PK2	37.2	-19.3	0	49.78	-	-	74	-24.22	351	100	V

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

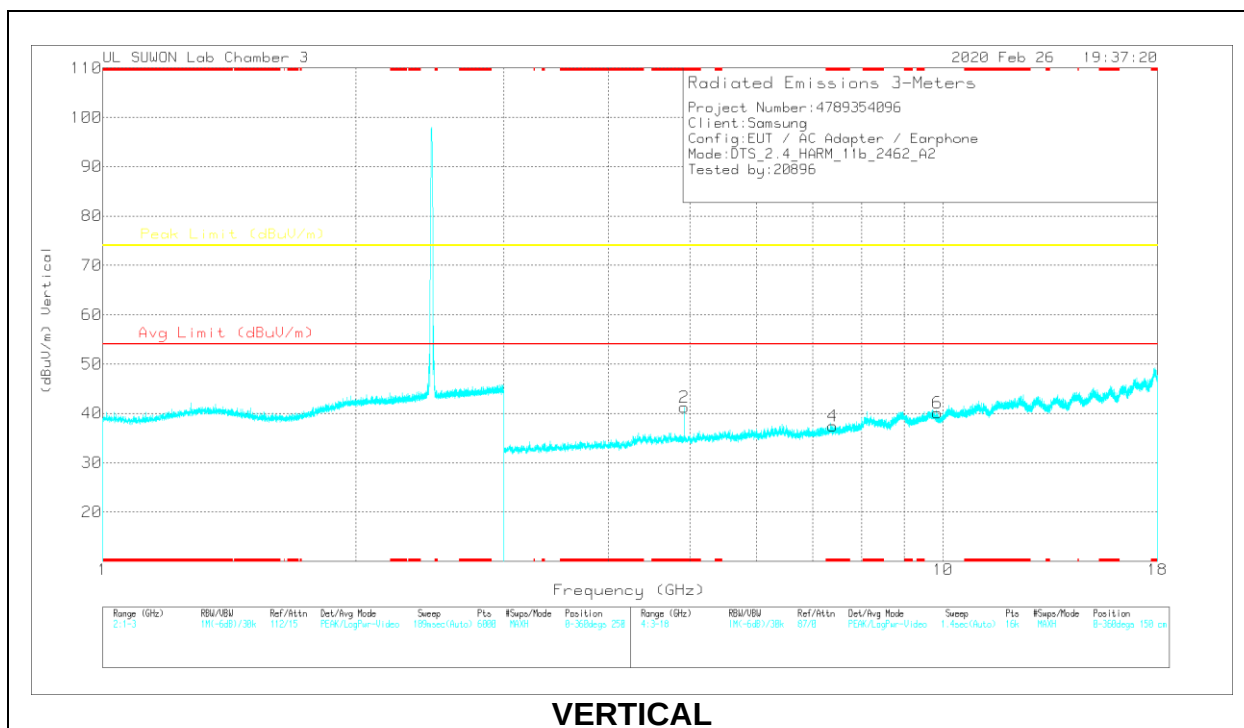
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL, CH 11 RESULTS



HORIZONTAL



VERTICAL

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0020595 9	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.92419	42.23	PK2	34.2	-28.8	0	47.63	-	-	74	-26.37	307	101	H
* 4.92403	35.84	MAv1	34.2	-28.8	0	41.24	54	-12.76	-	-	307	101	H
* 4.92395	42.28	PK2	34.2	-28.8	0	47.68	-	-	74	-26.32	60	102	V
* 4.92399	36.36	MAv1	34.2	-28.8	0	41.76	54	-12.24	-	-	60	102	V
* 7.38428	35.2	PK2	35.8	-22.8	0	48.2	-	-	74	-25.8	359	107	H
* 7.38688	25.1	MAv1	35.8	-22.7	0	38.2	54	-15.8	-	-	359	107	H
* 7.38424	34.71	PK2	35.8	-22.8	0	47.71	-	-	74	-26.29	188	103	V
* 7.3852	23.91	MAv1	35.8	-22.8	0	36.91	54	-17.09	-	-	188	103	V
9.84809	32.02	PK2	37.4	-19.5	0	49.92	-	-	74	-24.08	314	103	H
9.84805	32.49	PK2	37.4	-19.5	0	50.39	-	-	74	-23.61	63	108	V

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

PK2 - KDB558074 Method: Maximum Peak

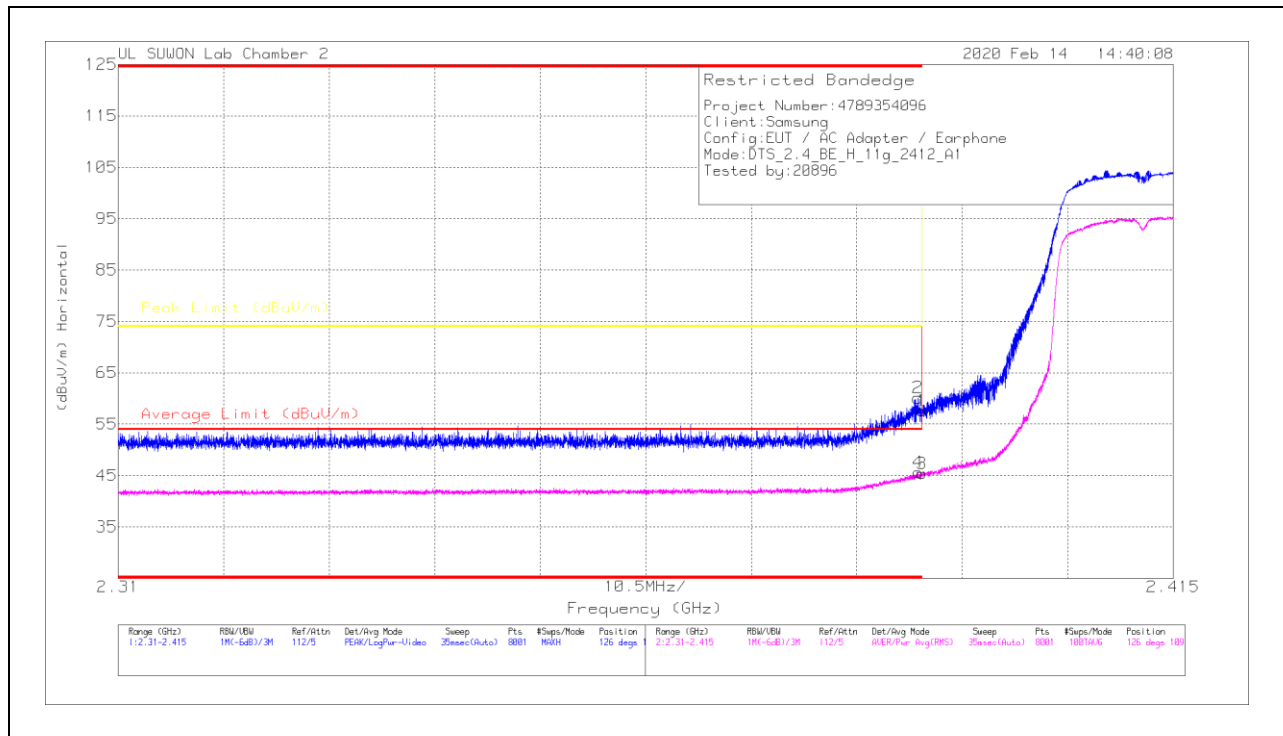
MAv1 - KDB558074 Option 1 Maximum RMS Average

10.1.2. TX ABOVE 1 GHz 802.11g MODE IN THE 2.4 GHz BAND

1TX Antenna 1 MODE

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



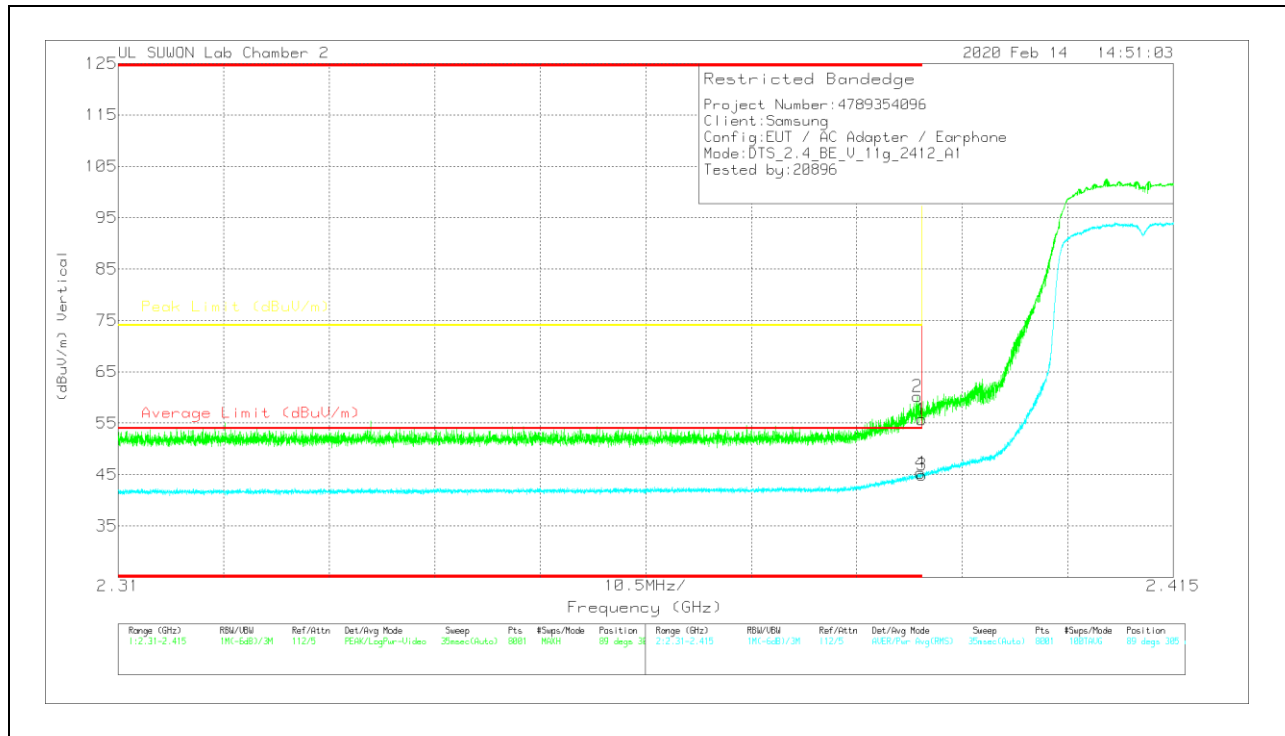
Marker	Frequency (GHz)	Meter Reading (dBu/m)	Det	3117_00168724	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBu/m)	Average Limit (dBu/m)	Margin (dB)	Peak Limit (dBu/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.39	46.6	PK	31.6	-20.6	0	57.6	-	-	74	-16.4	126	109	H
2	* 2.38958	49.13	PK	31.6	-20.6	0	60.13	-	-	74	-13.87	126	109	H
3	* 2.39	34.18	RMS	31.6	-20.6	.18	45.36	54	-8.64	-	-	126	109	H
4	* 2.38962	34.43	RMS	31.6	-20.6	.18	45.61	54	-8.39	-	-	126	109	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBu/m)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBu/m)	Average Limit (dBu/m)	Margin (dB)	Peak Limit (dBu/m)	PK Margin (dB)	Altitude (dEgs)	Height (cm)	Polarity
1	* 2.39	44.75	Pk	31.6	-20.6	0	55.75	-	-	74	-18.25	89	305	V
2	* 2.38952	40.2	Pk	31.6	-20.6	0	60.2	-	-	74	-13.8	89	305	V
3	* 2.39	33.76	RMS	31.6	-20.6	18	44.94	54	-9.06	-	-	89	305	V
4	* 2.38987	34.17	RMS	31.6	-20.6	18	45.35	54	-8.65	-	-	89	305	V

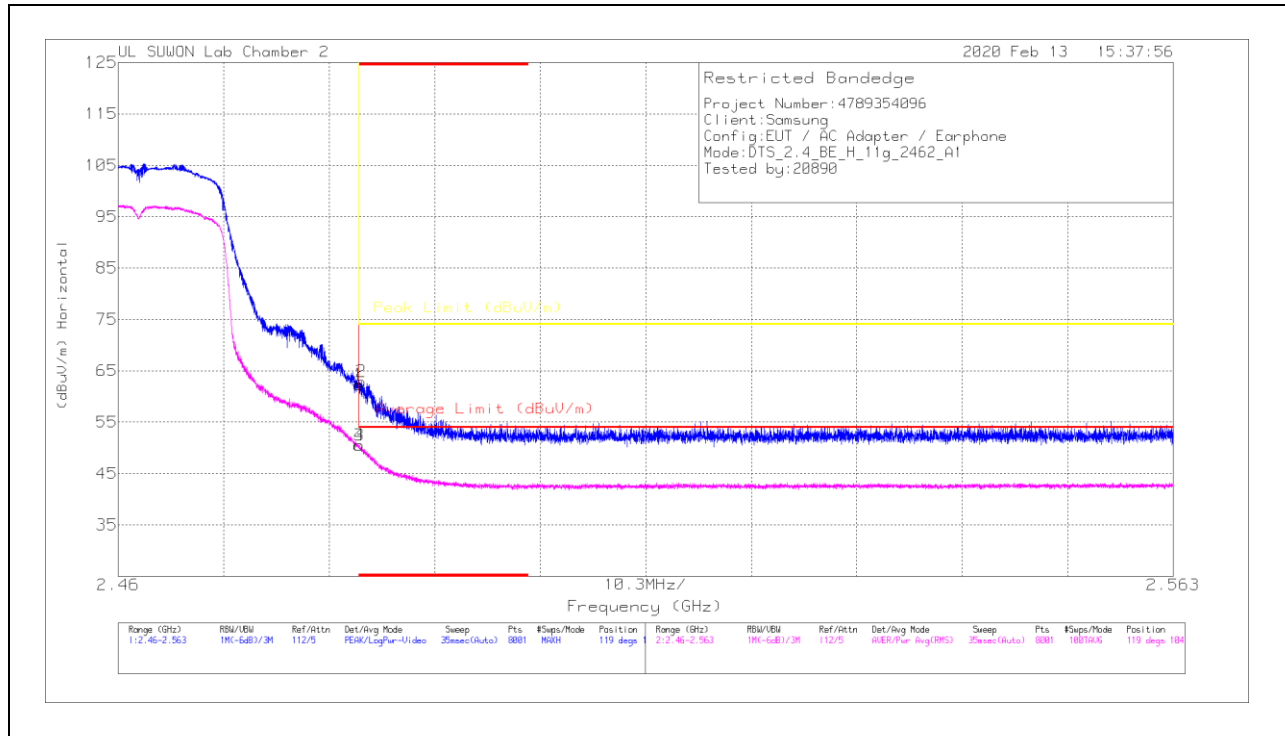
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 11)

HORIZONTAL RESULT



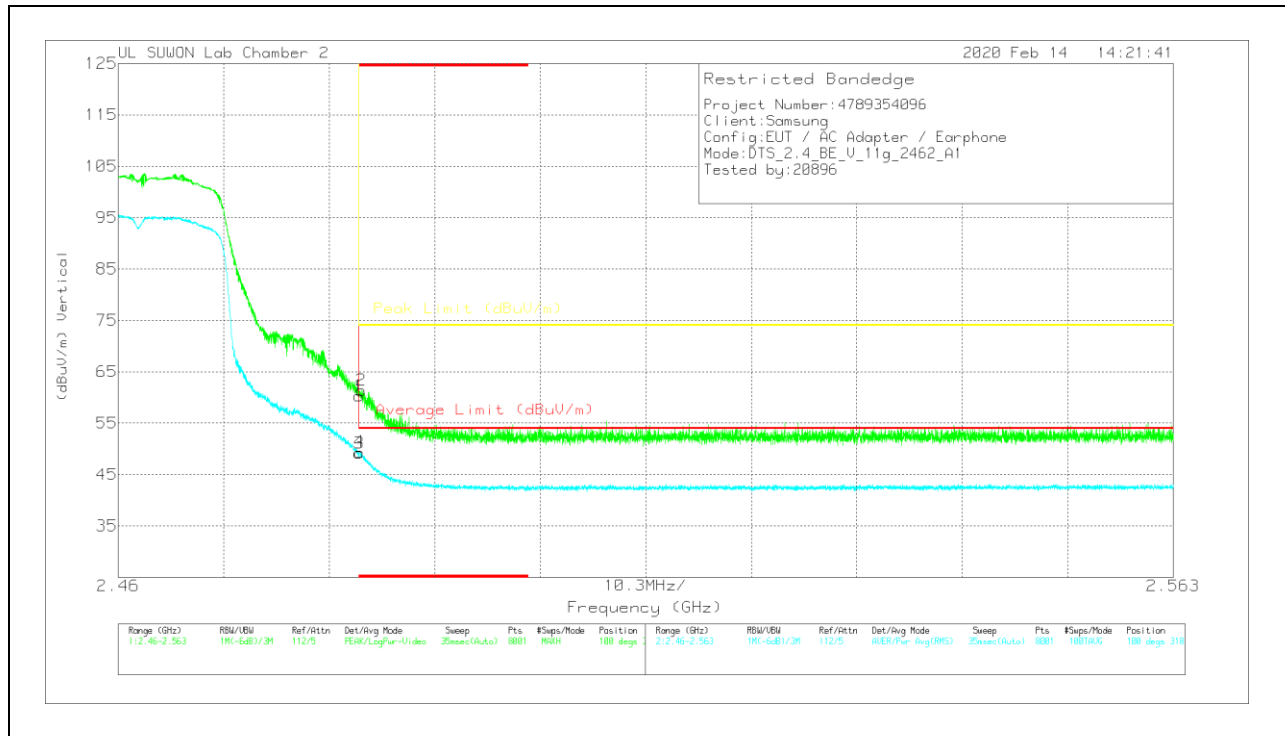
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	50.79	PK	31.9	-20.4	0	62.29	-	-	74	-11.71	119	104	H
2	* 2.48375	51.39	PK	31.9	-20.4	0	62.89	-	-	74	-11.11	119	104	H
3	* 2.48351	38.82	RMS	31.9	-20.4	18	50.5	54	-3.5	-	-	119	104	H
4	* 2.48355	38.82	RMS	31.9	-20.4	18	50.5	54	-3.5	-	-	119	104	H

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

PK - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (m)	Height (cm)	Polarity
1	* 2.48351	48.79	Pk	31.9	-20.4	0	60.29	-	-	74	-13.71	100	318	V
2	* 2.48372	49.86	Pk	31.9	-20.4	0	61.36	-	-	74	-12.64	100	318	V
3	* 2.48351	37.48	RMS	31.9	-20.4	18	49.16	54	-4.84	-	-	100	318	V
4	* 2.48355	37.68	RMS	31.9	-20.4	18	49.36	54	-4.64	-	-	100	318	V

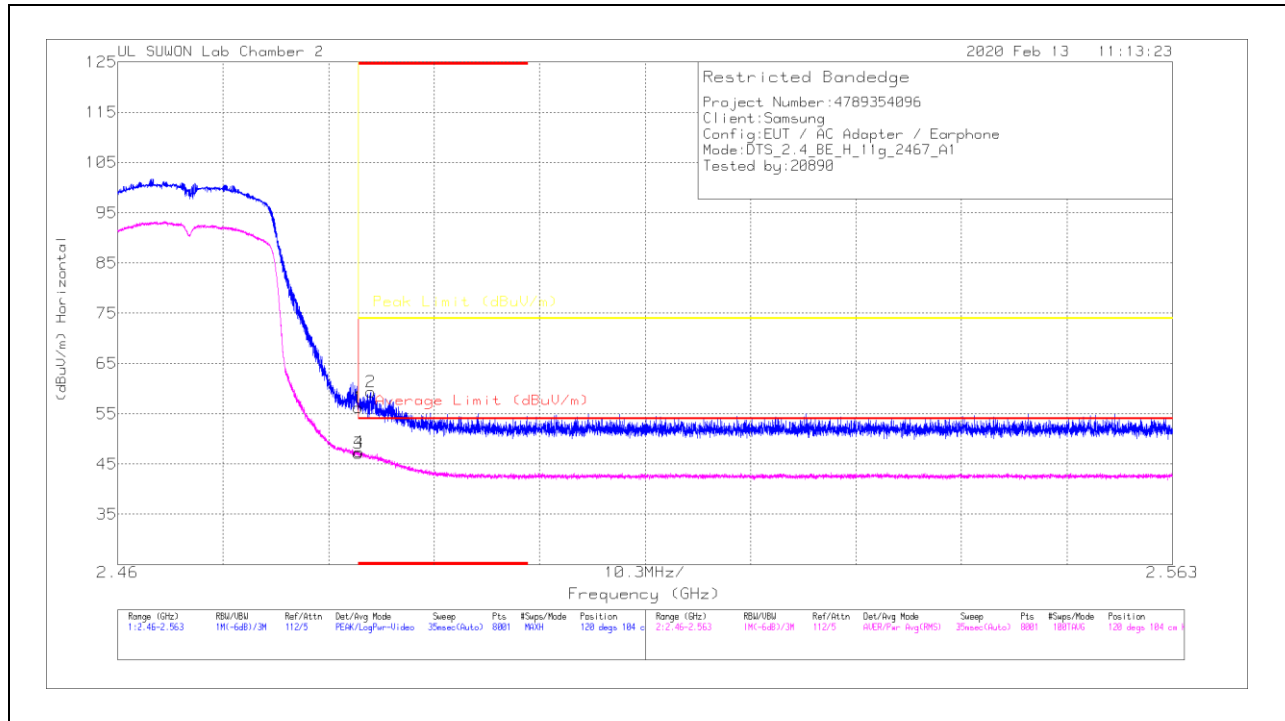
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 12)

HORIZONTAL RESULT



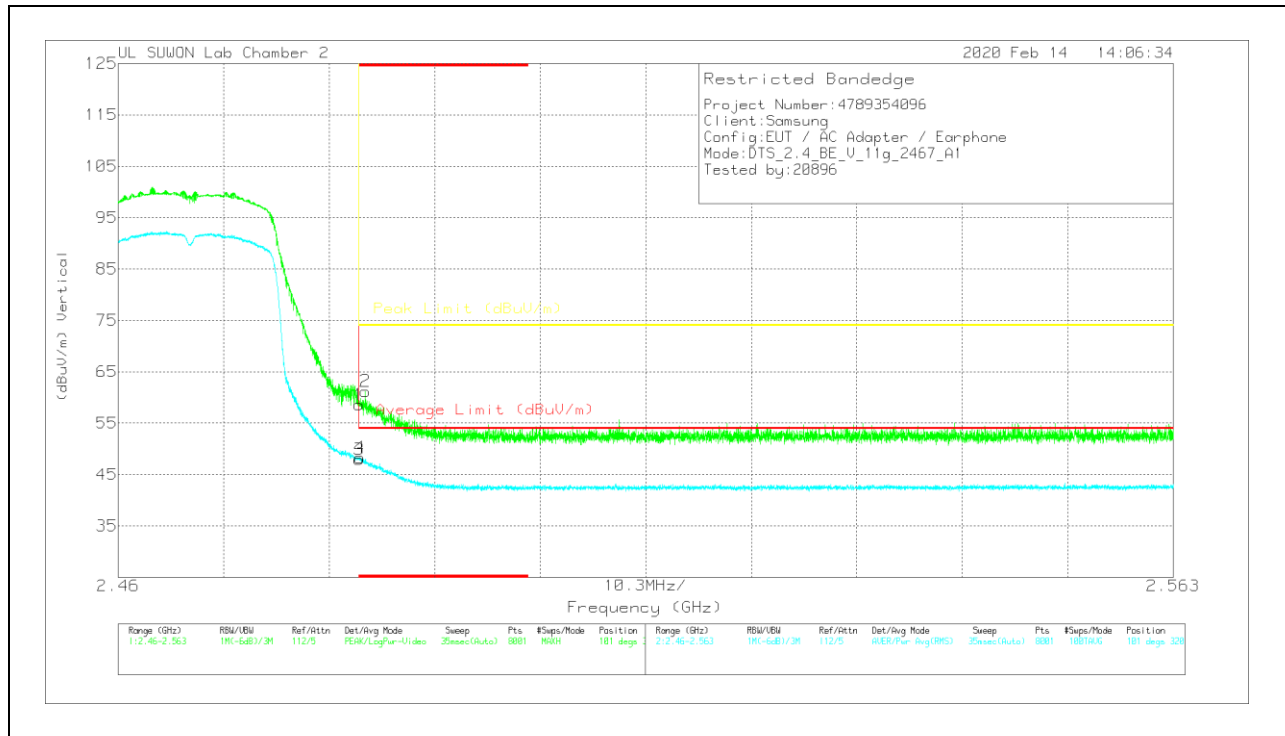
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (m)	Polarity
1	* 2.48351	44.78	Pk	31.9	-20.4	0	56.28	-	-	74	-17.72	120	104	H
2	* 2.48471	47.91	Pk	31.9	-20.4	0	59.41	-	-	74	-14.59	120	104	H
3	* 2.48351	35.49	RMS	31.9	-20.4	.18	47.17	54	-6.83	-	-	120	104	H
4	* 2.48357	35.74	RMS	31.9	-20.4	.18	47.42	54	-6.58	-	-	120	104	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.48351	47.1	Pk	31.9	-20.4	0	58.6	-	-	74	-15.4	101	320	V
2	* 2.48413	49.7	Pk	31.9	-20.4	0	61.2	-	-	74	-12.8	101	320	V
3	* 2.48351	36.27	RMS	31.9	-20.4	18	47.95	54	-6.05	-	-	101	320	V
4	* 2.48357	36.6	RMS	31.9	-20.4	18	48.28	54	-5.72	-	-	101	320	V

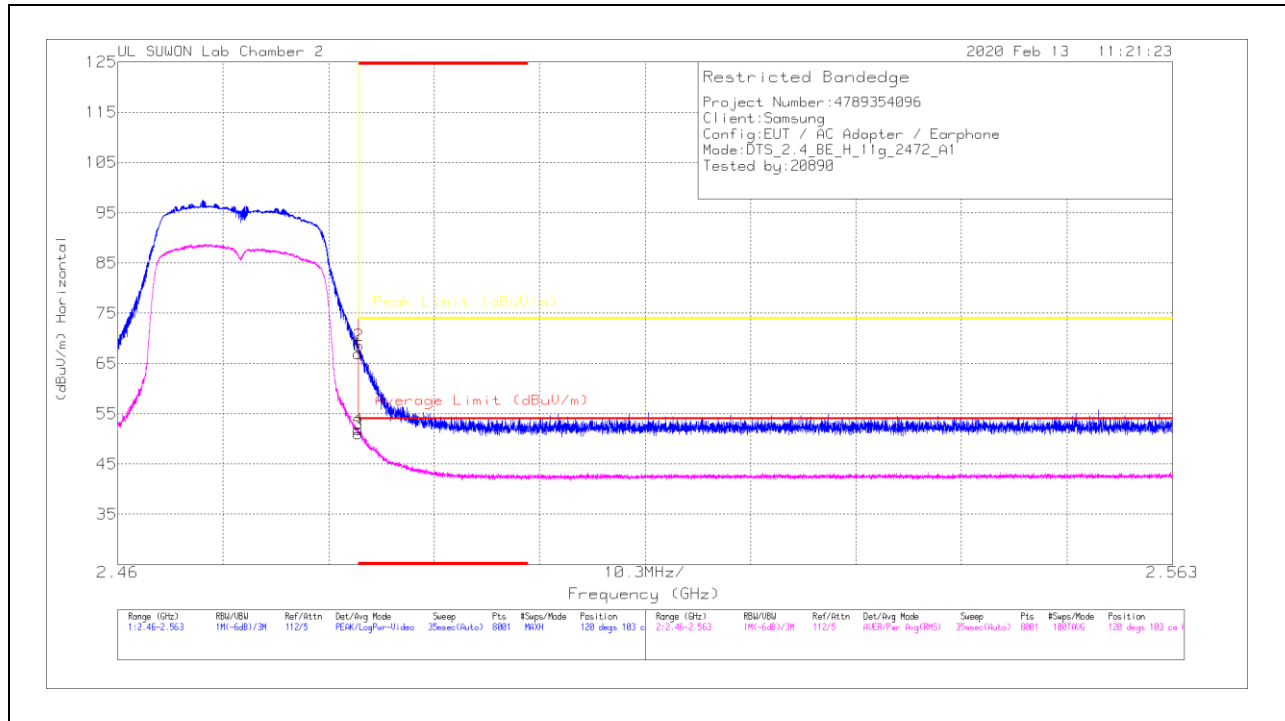
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 13)

HORIZONTAL RESULT



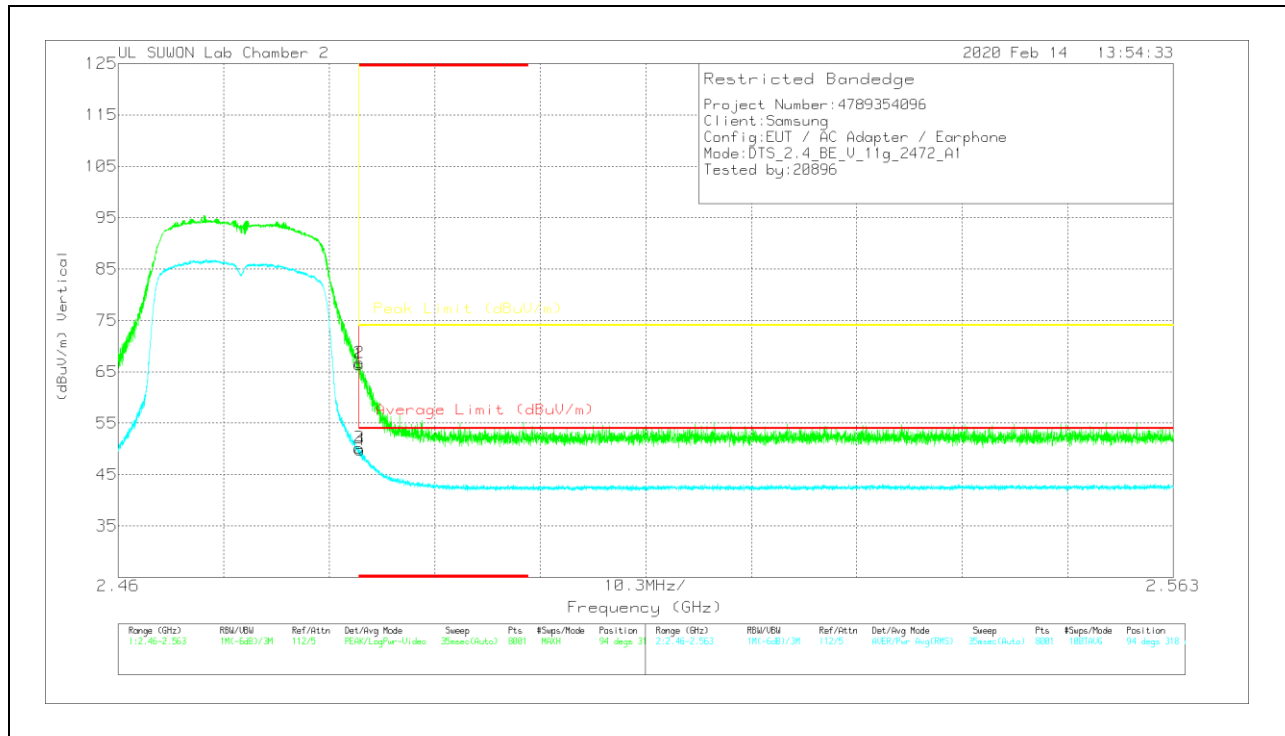
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Deg)	Height (m)	Polarity
1	* 2.48351	55.47	Pk	31.9	-20.4	0	56.97	-	-	74	-7.03	120	103	H
2	* 2.48351	57.02	Pk	31.9	-20.4	0	58.52	-	-	74	-5.48	120	103	H
3	* 2.48351	39.37	RMS	31.9	-20.4	18	51.05	54	-2.95	-	-	120	103	H
4	* 2.48352	40.23	RMS	31.9	-20.4	18	51.91	54	-2.09	-	-	120	103	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Asimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	54.96	Pk	31.9	-20.4	0	66.46	-	-	74	-7.54	94	318	V
2	* 2.48356	55.27	Pk	31.9	-20.4	0	66.77	-	-	74	-7.23	94	318	V
3	* 2.48351	38.49	RMS	31.9	-20.4	18	50.17	54	-3.83	-	-	94	318	V
4	* 2.4836	38.08	RMS	31.9	-20.4	18	49.76	54	-4.24	-	-	94	318	V

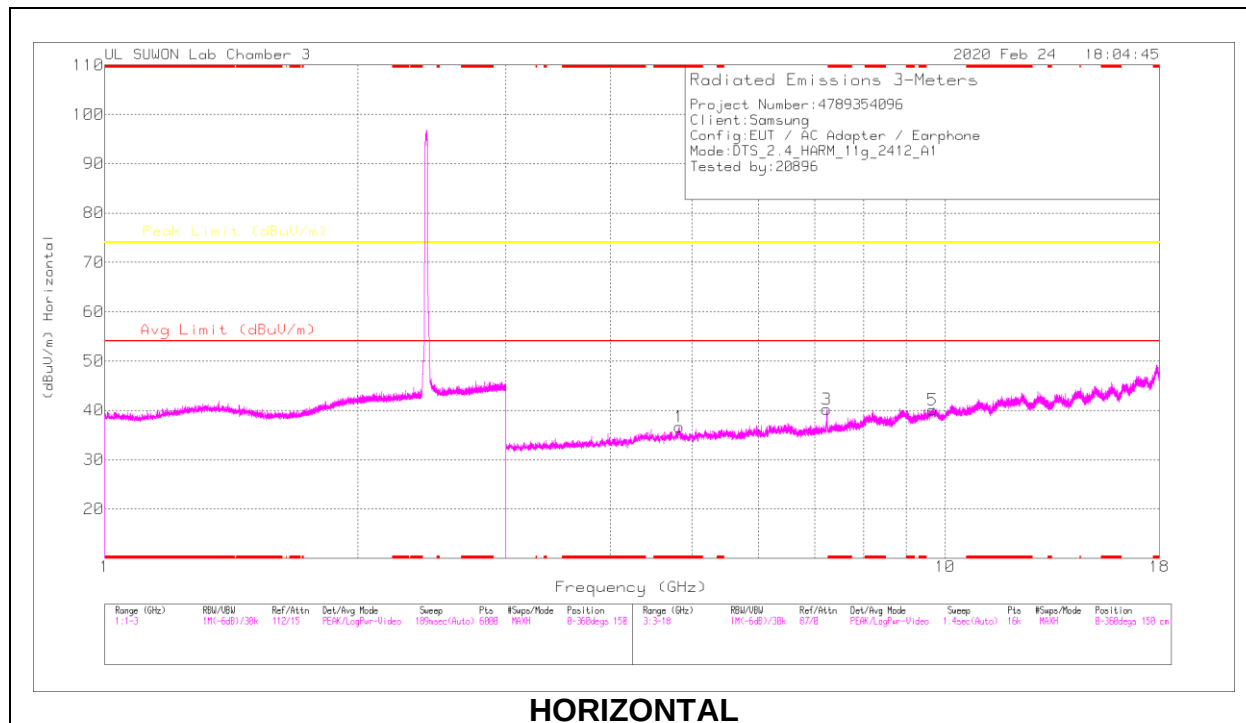
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

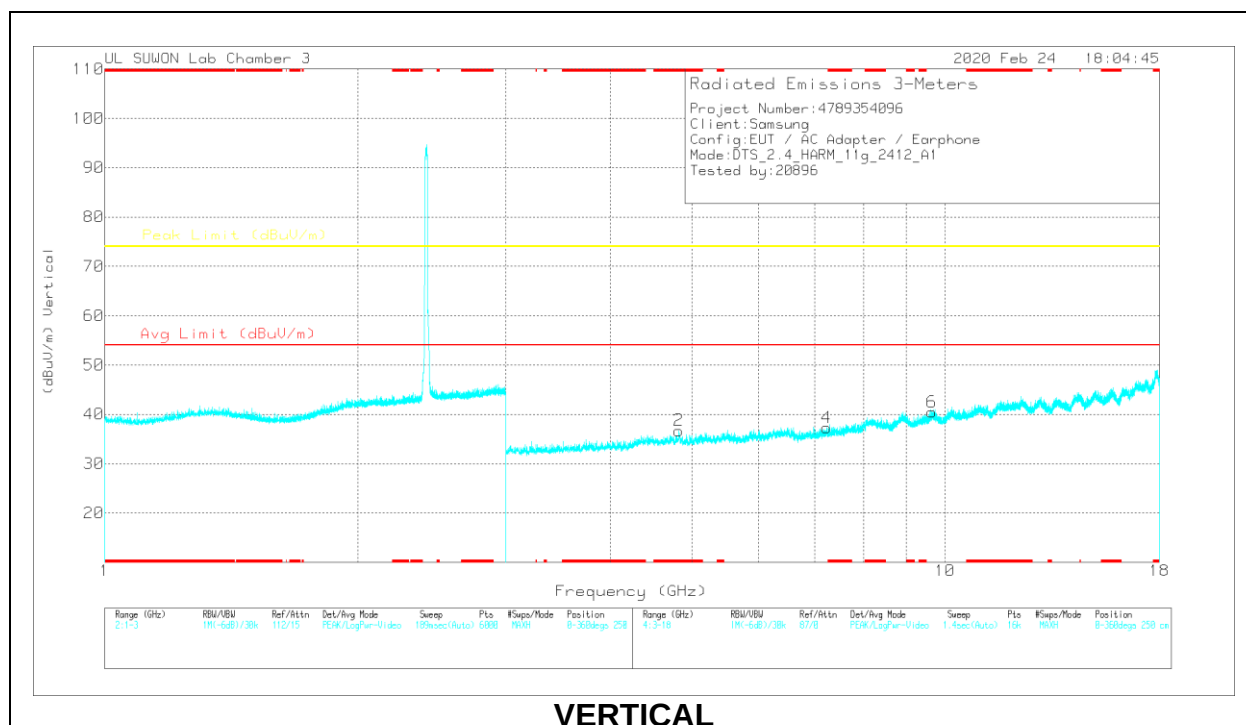
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, CH 1 RESULTS



HORIZONTAL



VERTICAL

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

RADIATED EMISSIONS

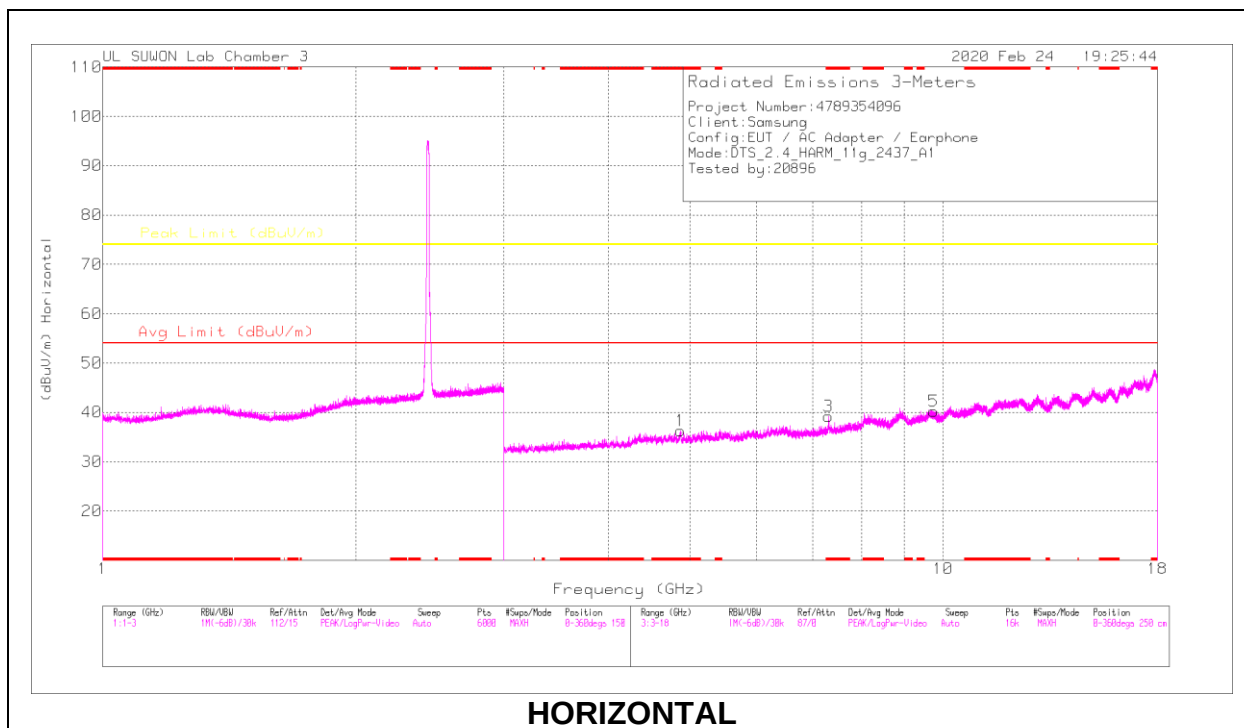
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0020595 _g	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.82551	41.85	PK2	34.2	-28.1	0	47.95	-	-	74	-26.05	68	151	H
* 4.82387	29.77	MAv1	34.2	-28.1	.18	36.05	54	-17.95	-	-	68	151	H
* 4.81512	40.94	PK2	34.2	-28	0	47.14	-	-	74	-26.86	93	257	V
* 4.82555	29.69	MAv1	34.2	-28.1	.18	35.97	54	-18.03	-	-	93	257	V
7.2249	40.15	PK2	35.8	-23.8	0	52.15	-	-	74	-21.85	69	132	H
7.23444	36.87	PK2	35.8	-23.7	0	48.97	-	-	74	-25.03	327	368	V
9.66309	28.33	PK2	37.1	-19.4	0	46.03	-	-	74	-27.97	0	100	H
9.66275	28.99	PK2	37.1	-19.4	0	46.69	-	-	74	-27.31	0	100	V

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

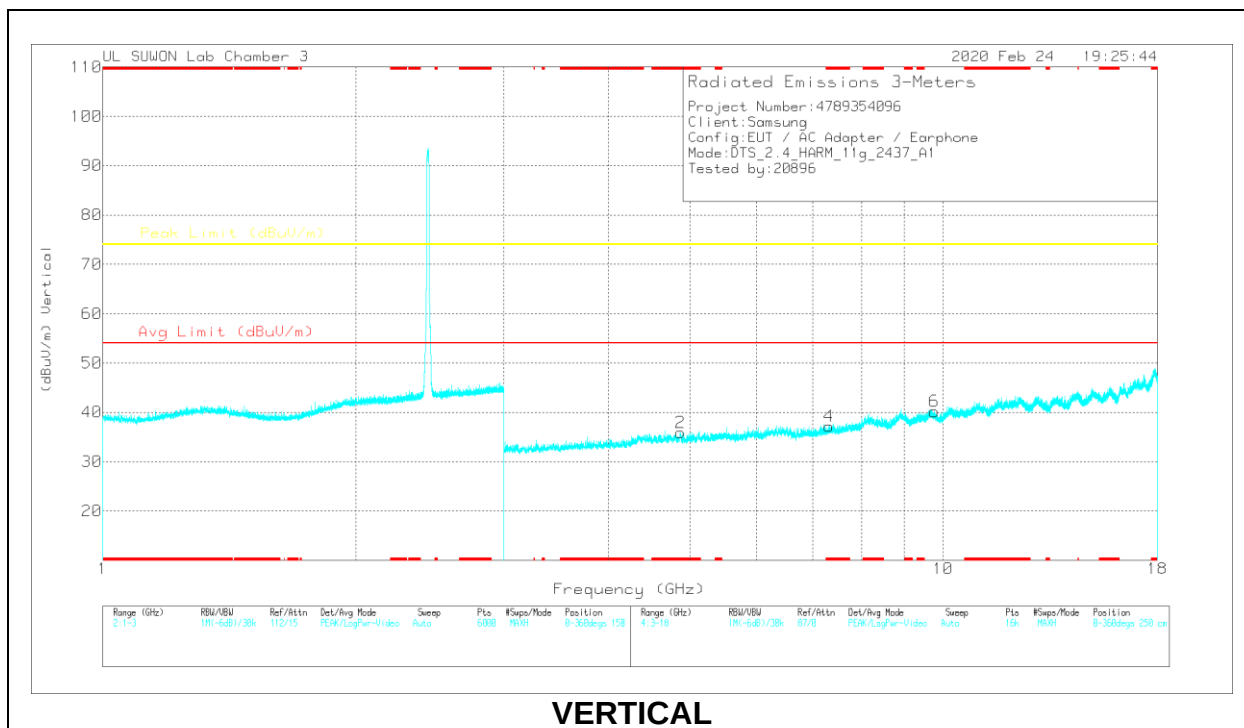
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL, CH 6 RESULTS



HORIZONTAL



VERTICAL

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

RADIATED EMISSIONS

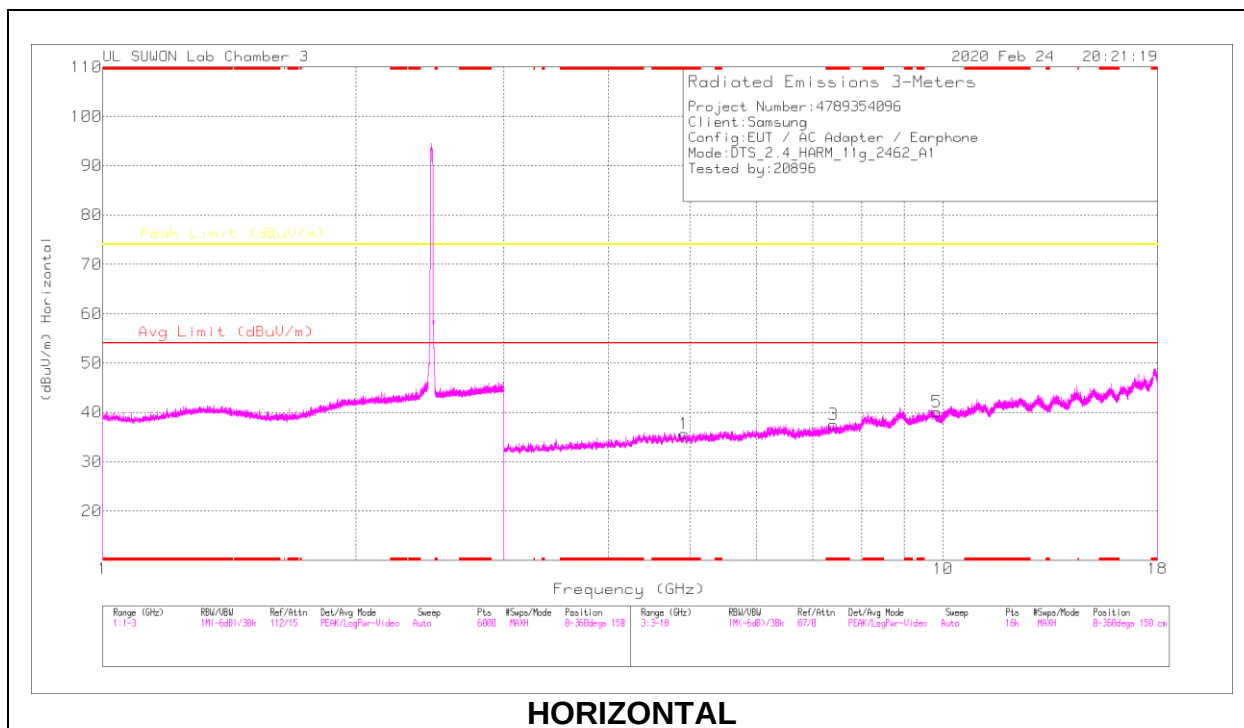
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0020595 9	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.87496	41.47	PK2	34.2	-28.7	0	46.97	-	-	74	-27.03	66	121	H
* 4.87144	29.96	MAv1	34.2	-28.6	.18	35.74	54	-18.26	-	-	66	121	H
* 4.8706	41.18	PK2	34.2	-28.6	0	46.78	-	-	74	-27.22	94	316	V
* 4.87348	29.76	MAv1	34.2	-28.7	.18	35.44	54	-18.56	-	-	94	316	V
* 7.31617	37.97	PK2	35.8	-23.3	0	50.47	-	-	74	-23.53	69	110	H
* 7.31034	25.88	MAv1	35.8	-23.3	.18	38.56	54	-15.44	-	-	69	110	H
* 7.31577	35.27	PK2	35.8	-23.3	0	47.77	-	-	74	-26.23	332	353	V
* 7.30914	24.22	MAv1	35.8	-23.4	.18	36.8	54	-17.2	-	-	332	353	V
9.74586	27.45	PK2	37.2	-19.3	0	45.35	-	-	74	-28.65	0	100	H
9.74186	28.27	PK2	37.2	-19.3	0	46.17	-	-	74	-27.83	0	100	V

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

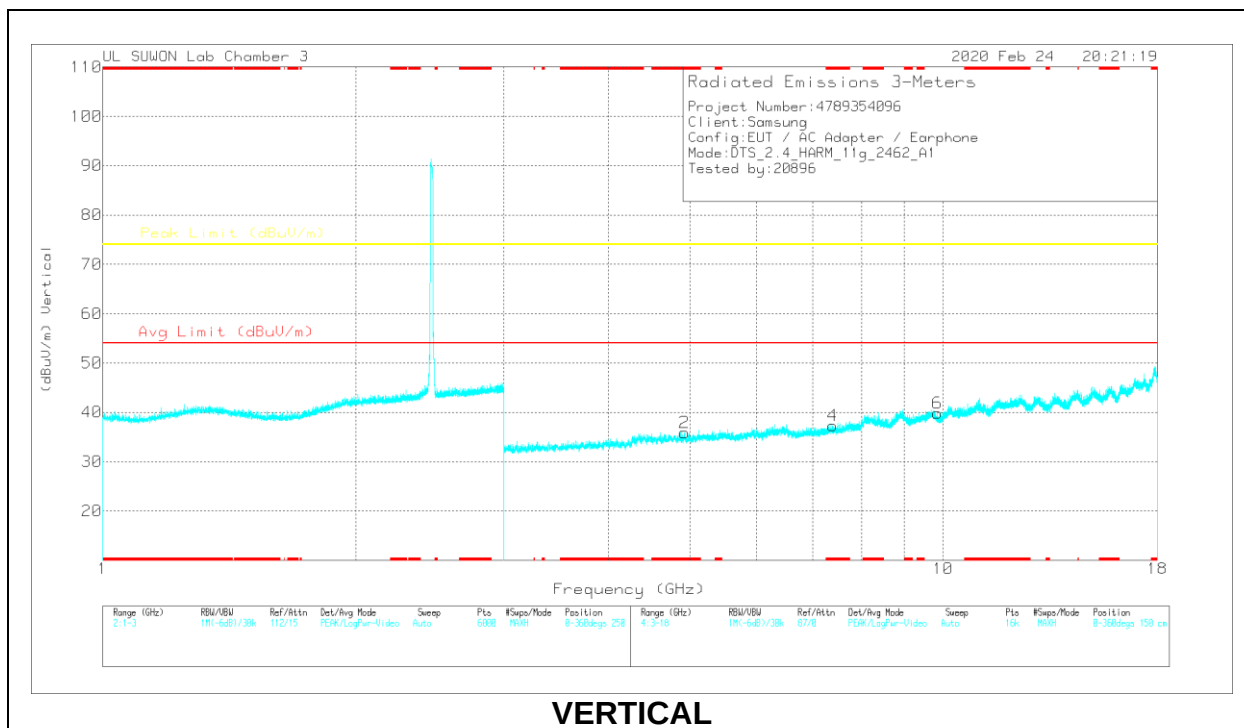
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL, CH 11 RESULTS



HORIZONTAL



VERTICAL

Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0020595_9	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.9205	40.49	PK2	34.2	-28.8	0	45.89	-	-	74	-28.11	64	123	H
* 4.92333	29.59	MAv1	34.2	-28.8	.18	35.17	54	-18.83	-	-	64	123	H
* 4.91414	40.04	PK2	34.2	-28.8	0	45.44	-	-	74	-28.56	104	158	V
* 4.92381	28.56	MAv1	34.2	-28.8	.18	34.14	54	-19.86	-	-	104	158	V
* 7.42187	31.61	PK2	35.8	-22.9	0	44.51	-	-	74	-29.49	0	100	H
* 7.40961	32.07	PK2	35.8	-22.8	0	45.07	-	-	74	-28.93	0	100	V
9.81328	29.11	PK2	37.3	-19.5	0	46.91	-	-	74	-27.09	0	100	H
9.82995	27.98	PK2	37.4	-19.5	0	45.88	-	-	74	-28.12	0	100	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average