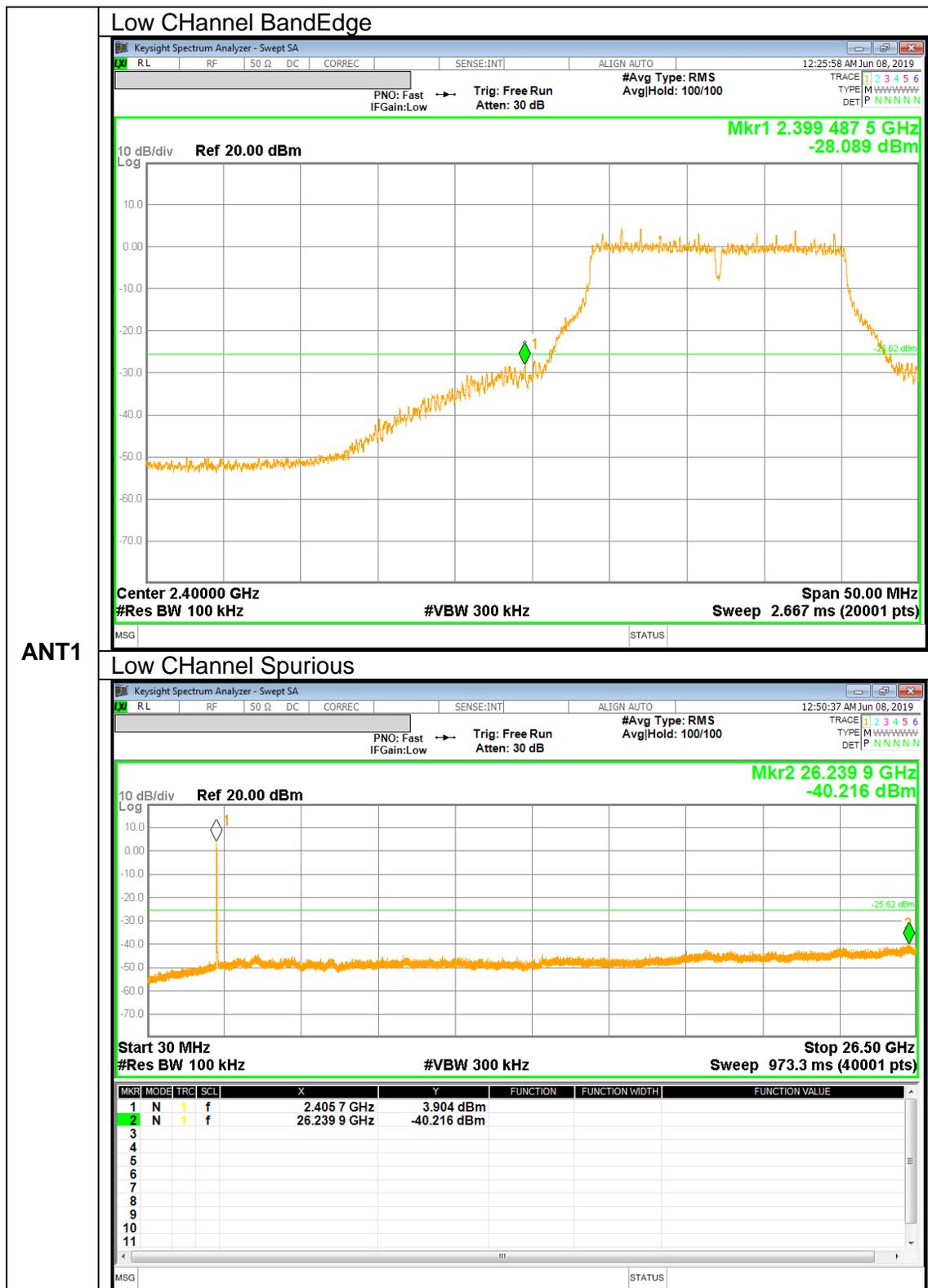
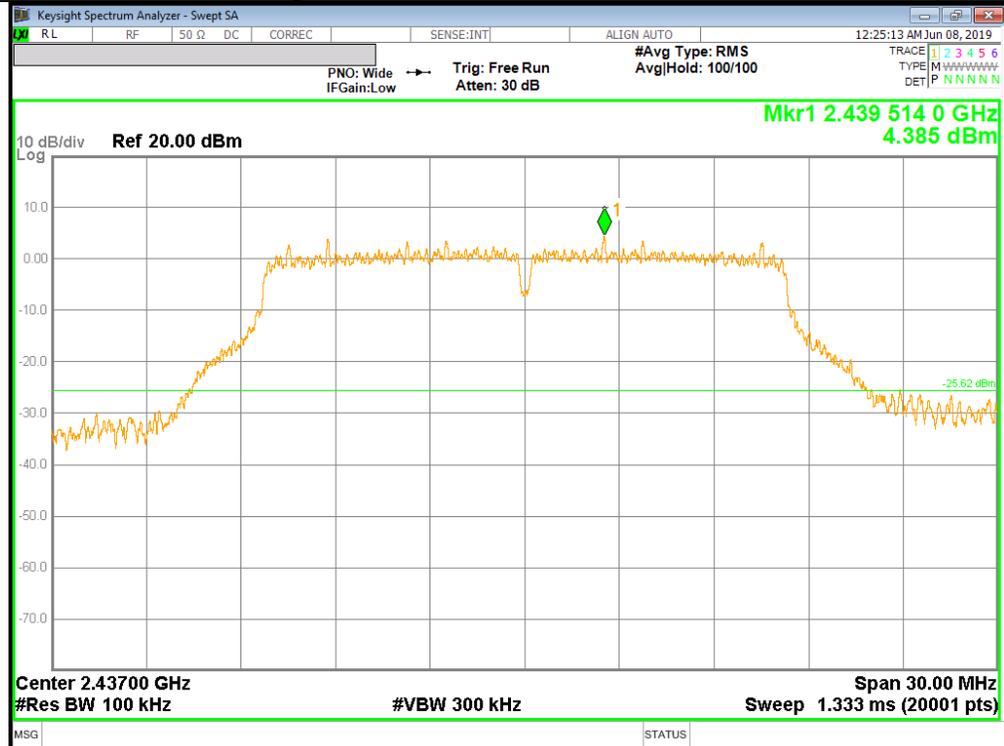


ANT2

10.4.2. 802.11g MODE IN THE 2.4 GHz BAND

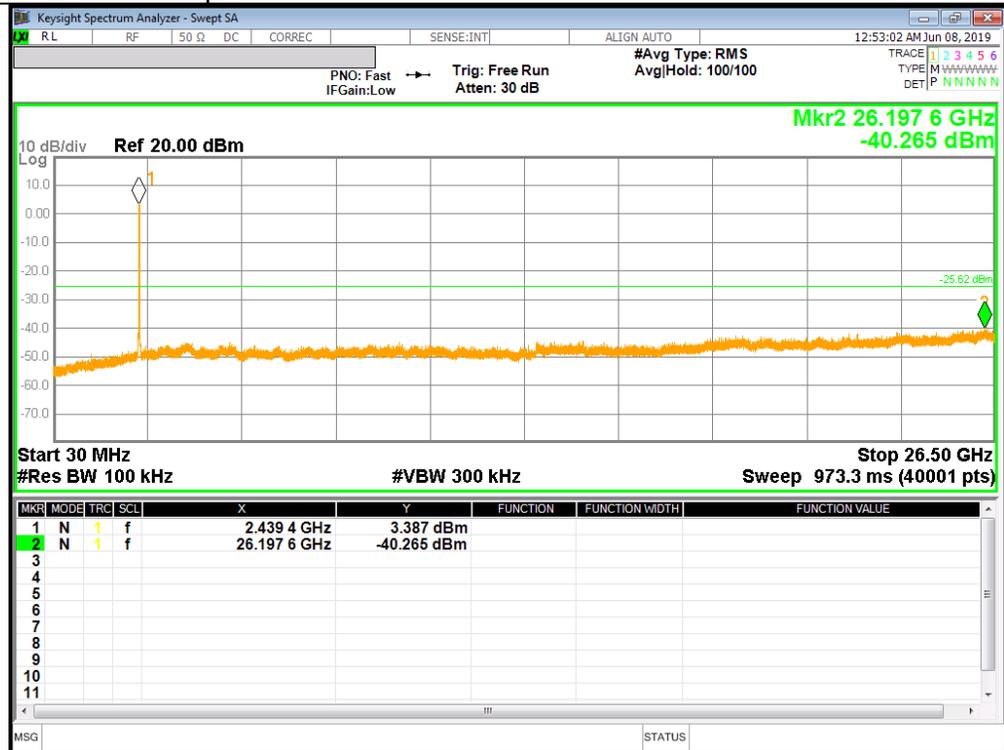


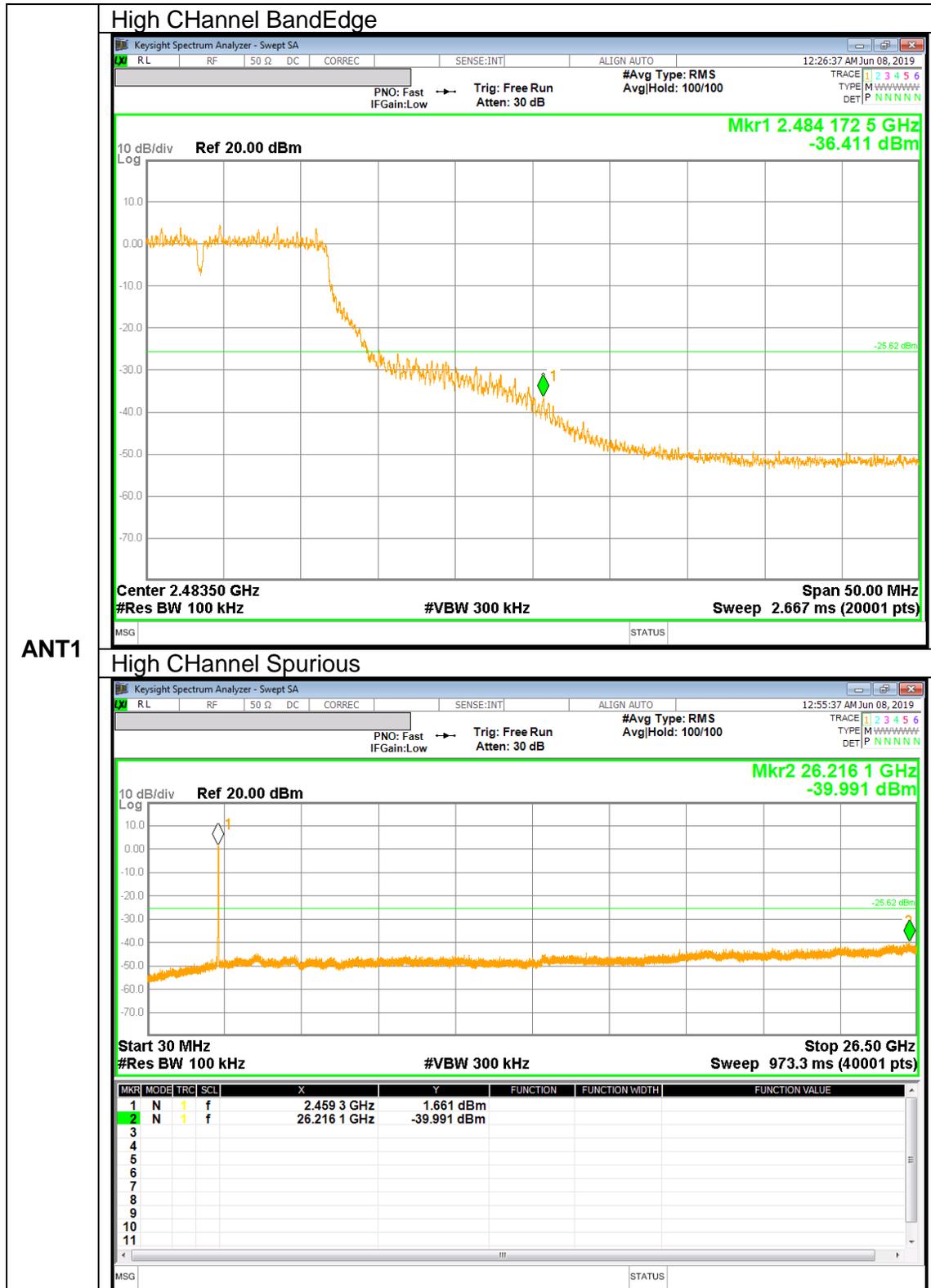
Mid Channel BandEdge



ANT1

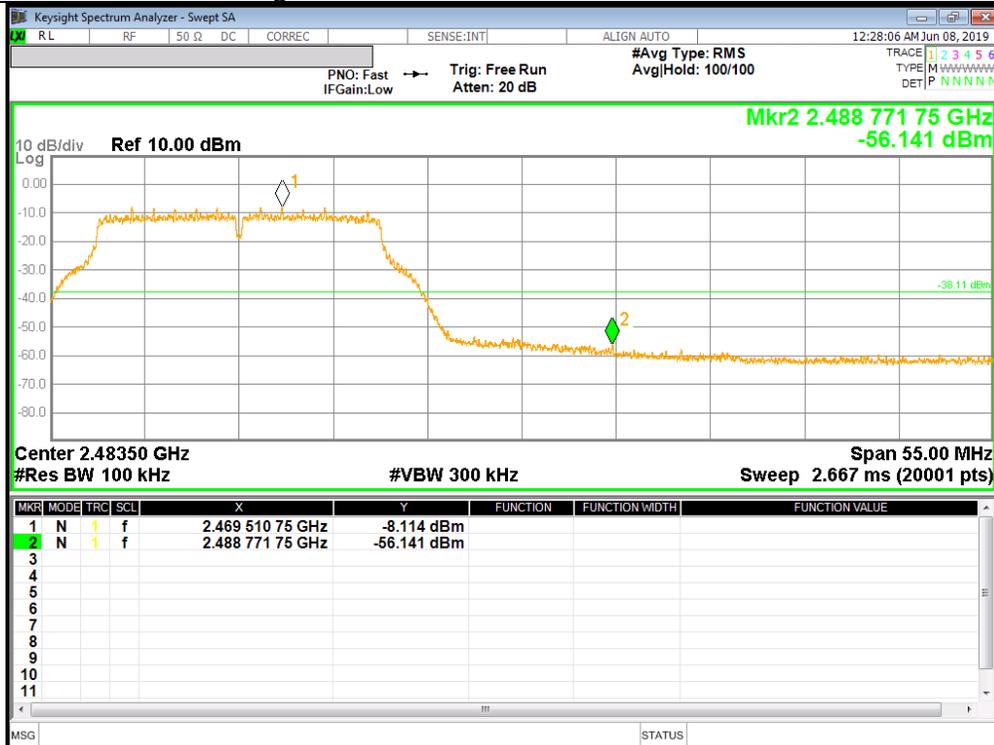
Mid Channel Spurious





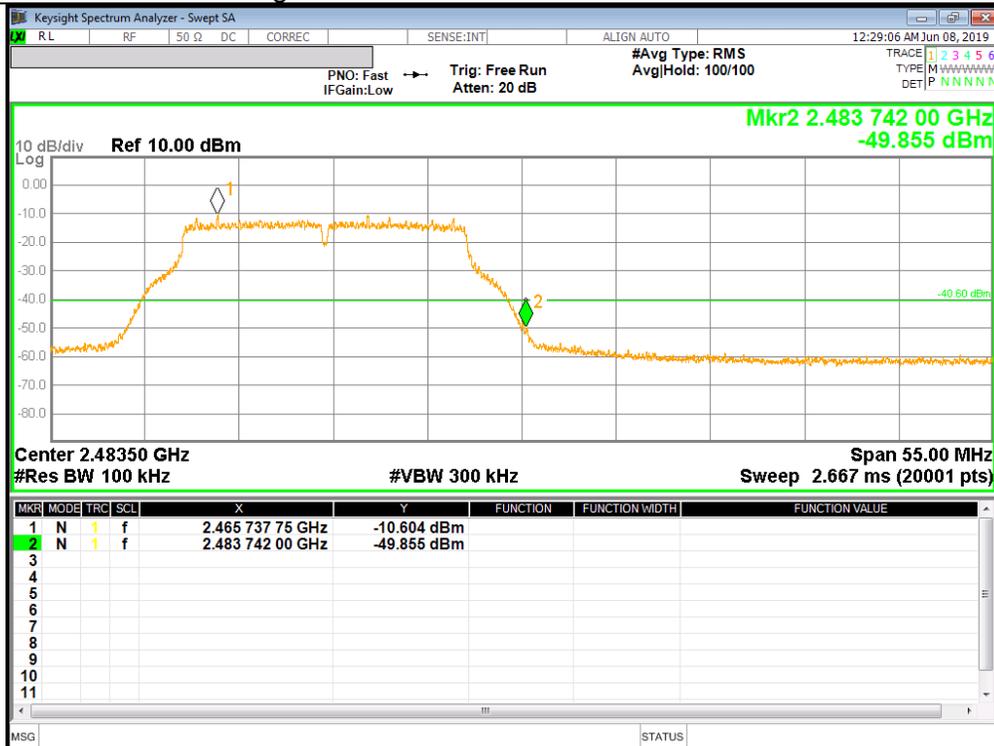
ANT1

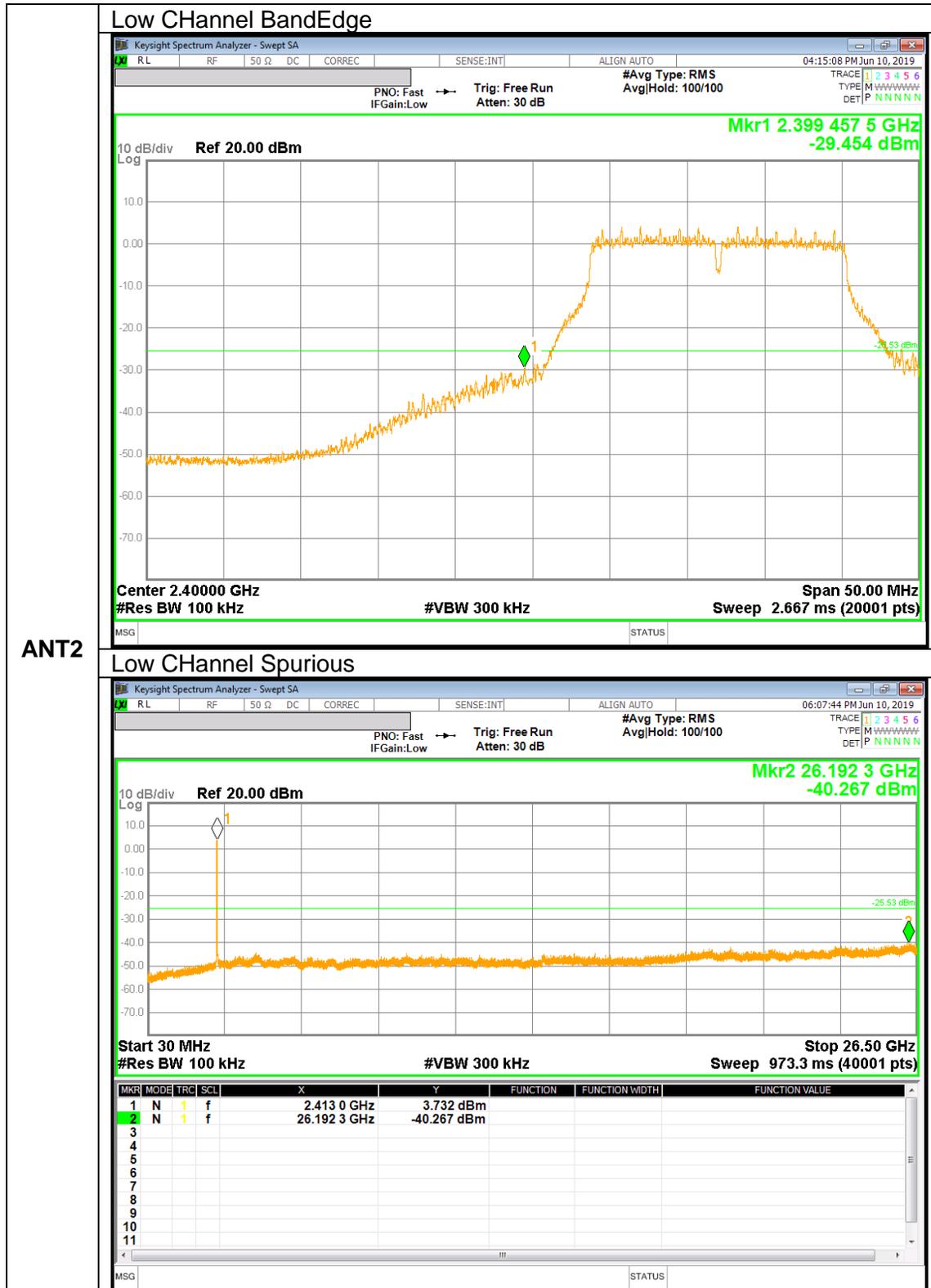
12 Channel BandEdge



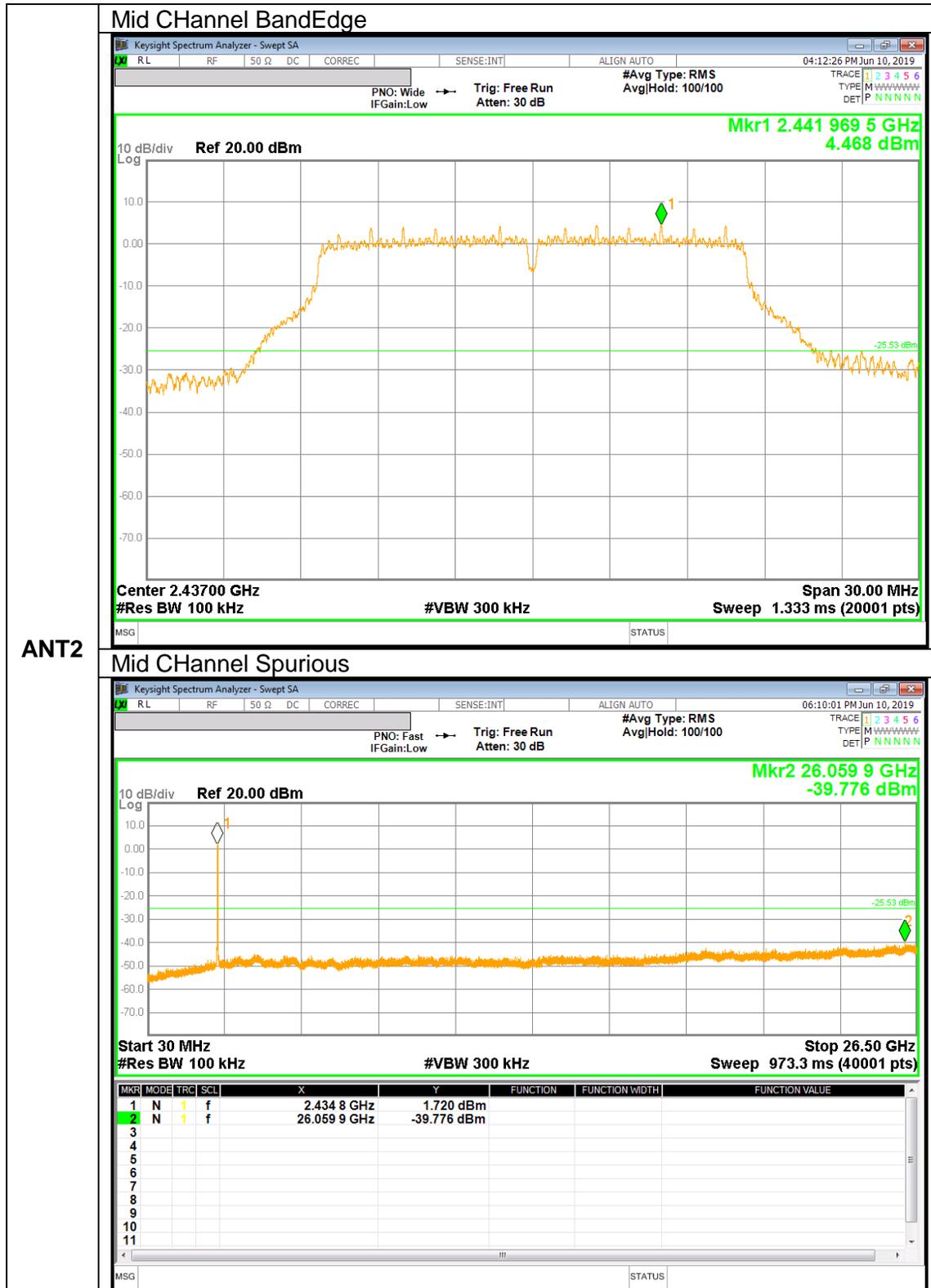
ANT1

13 Channel BandEdge

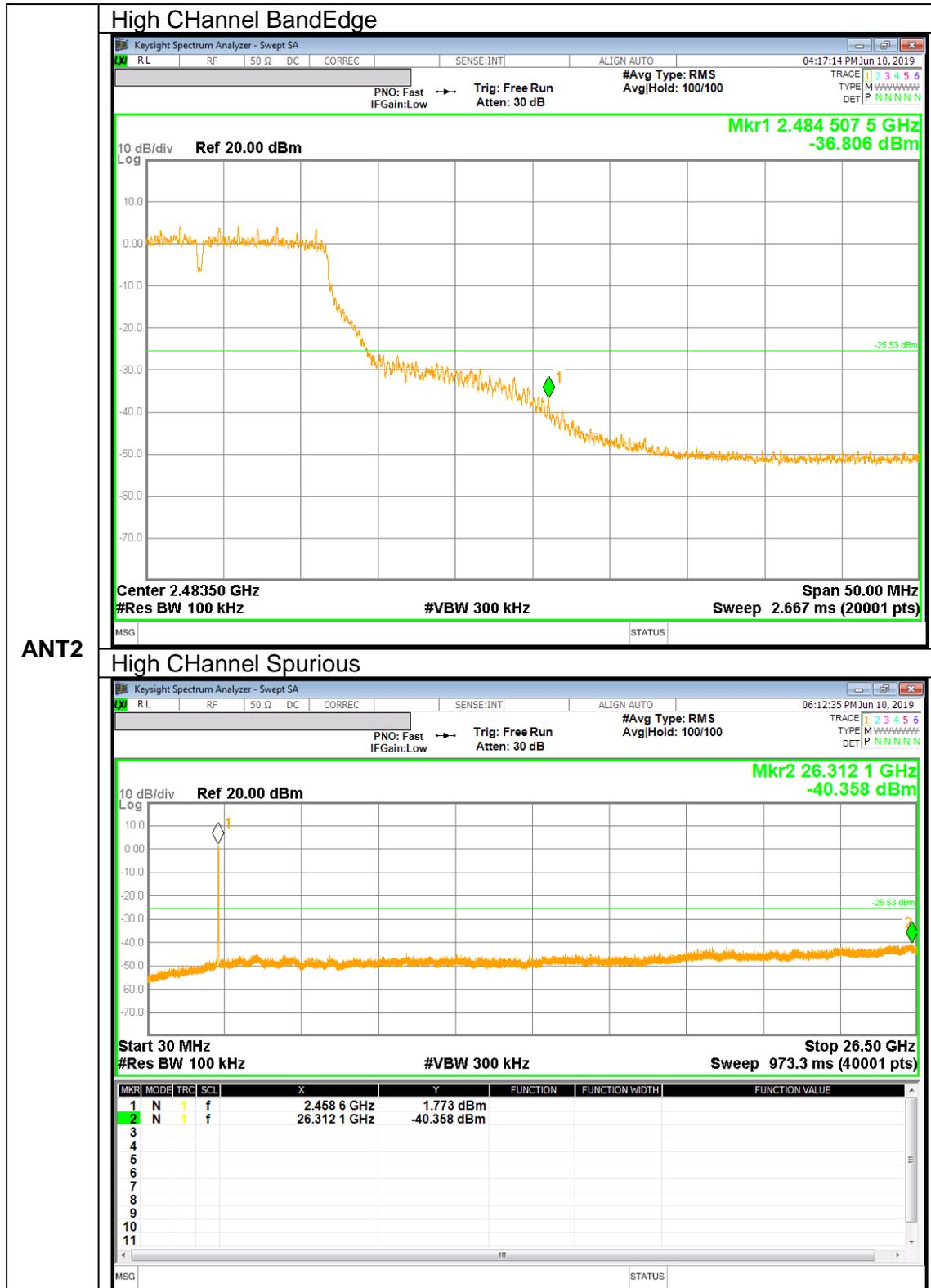




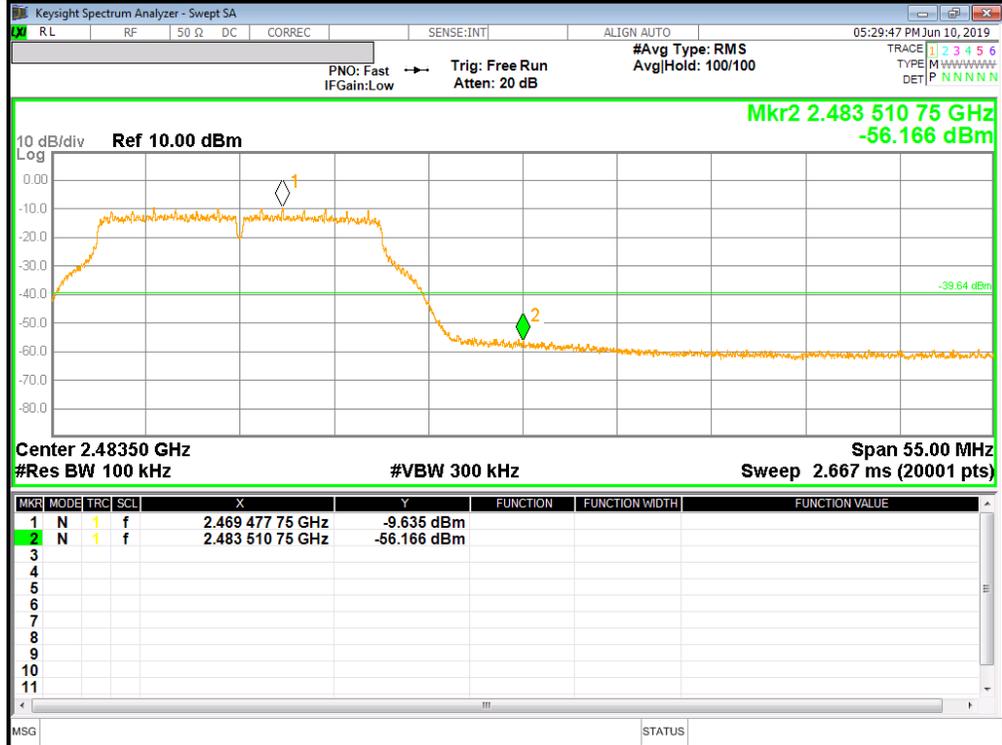
ANT2



ANT2

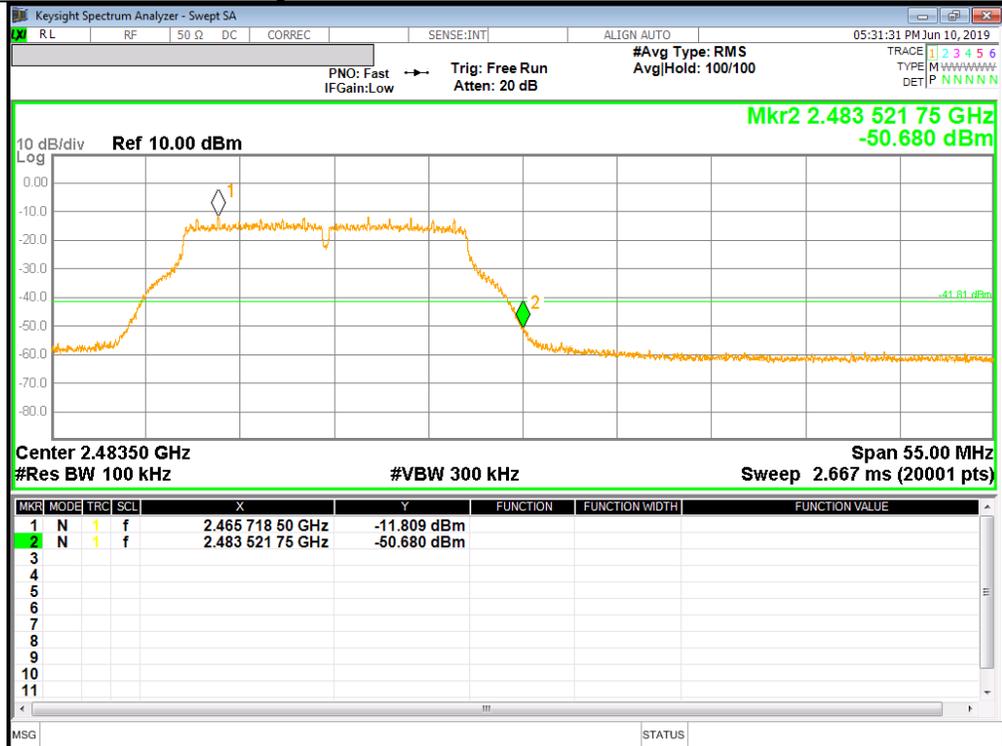


12 Channel BandEdge

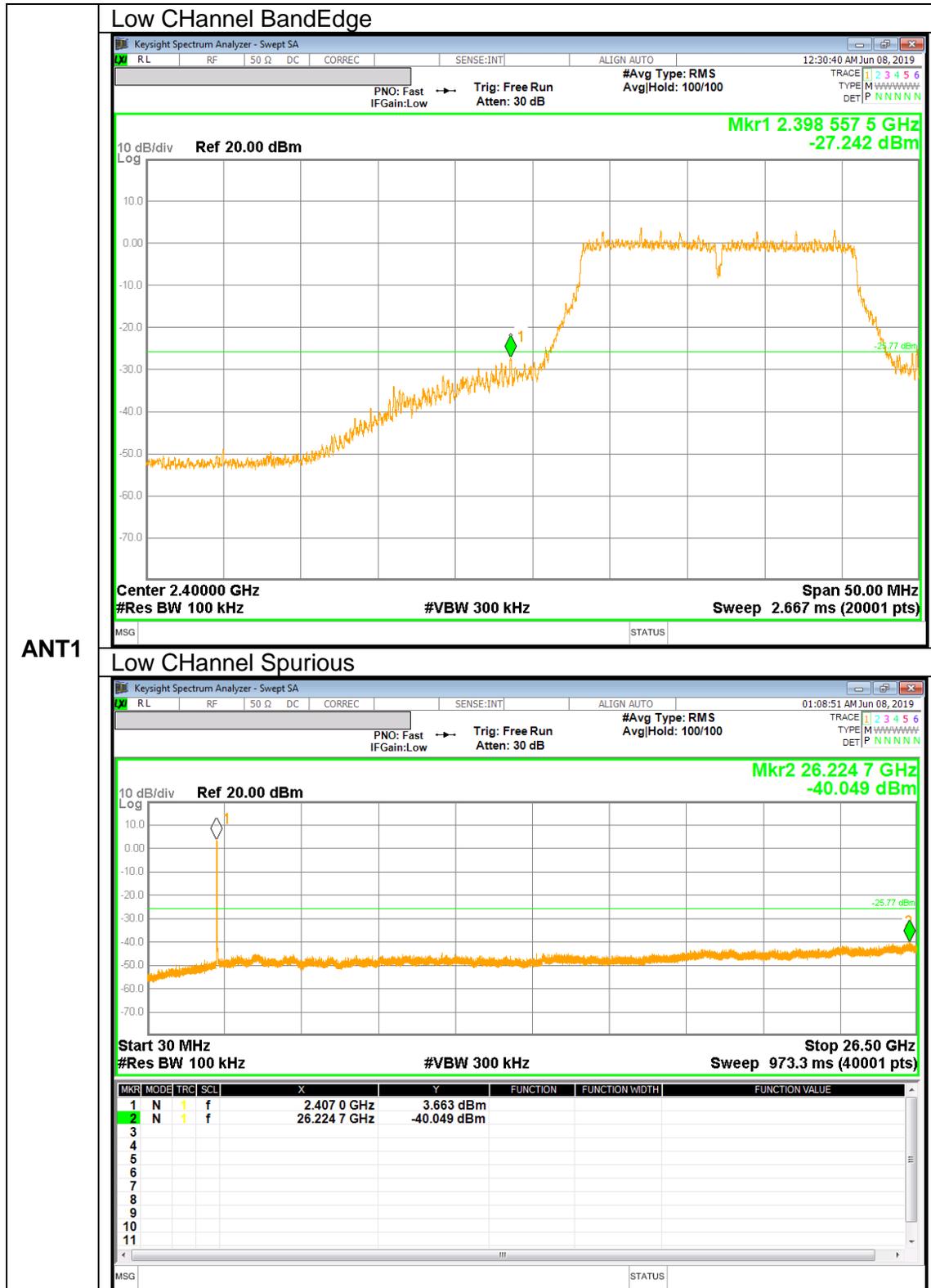


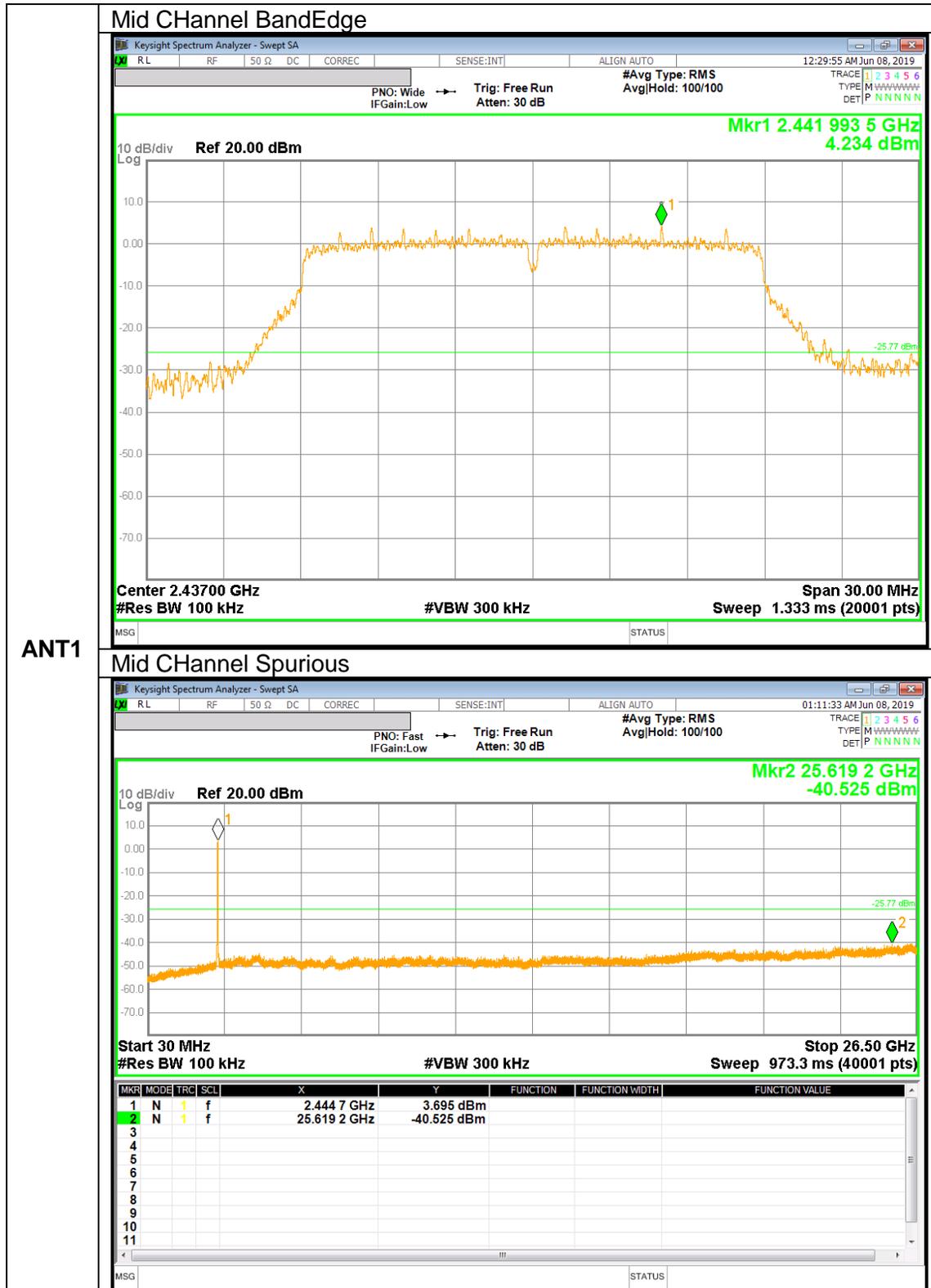
ANT2

13 Channel BandEdge

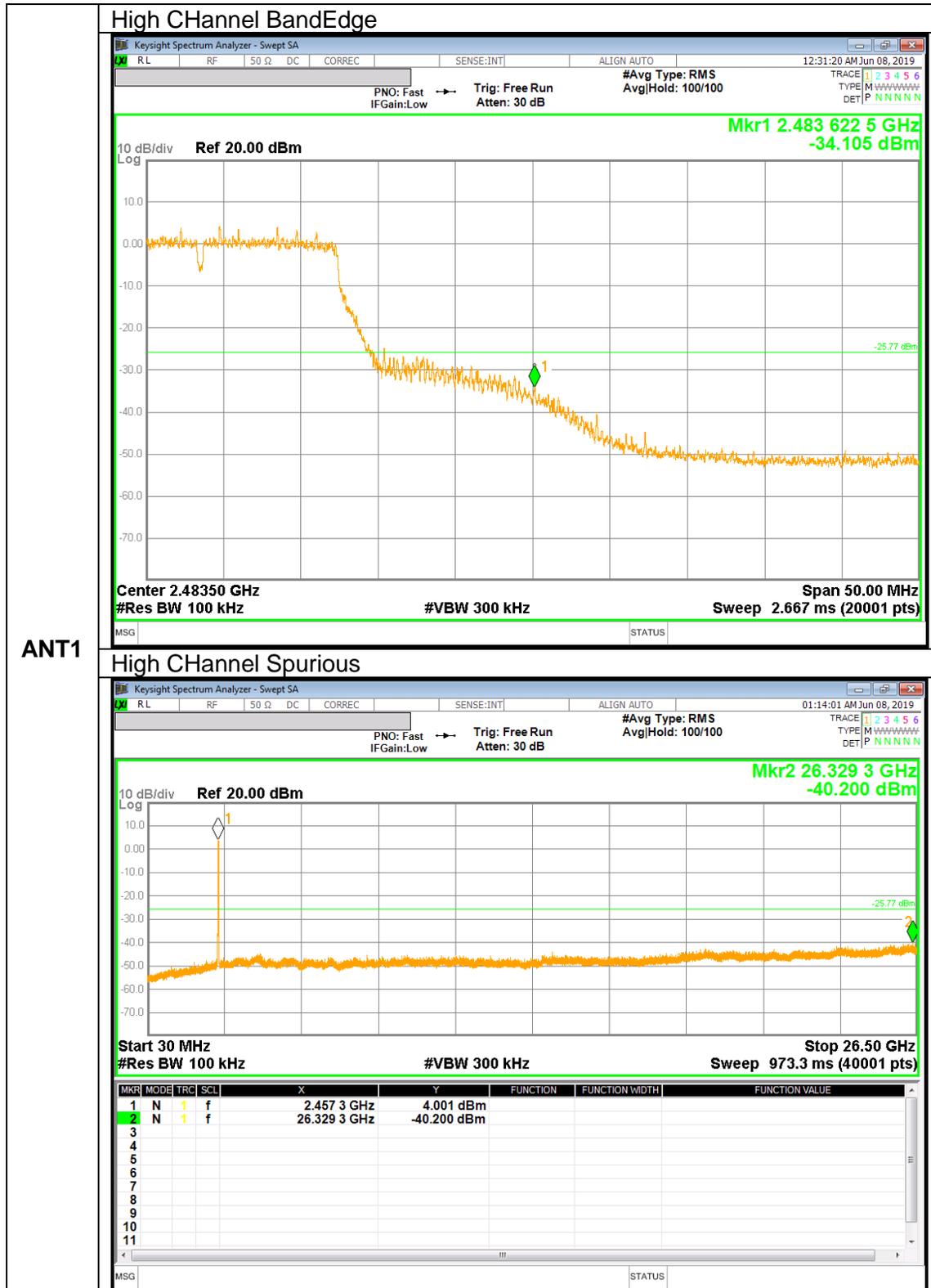


10.4.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND



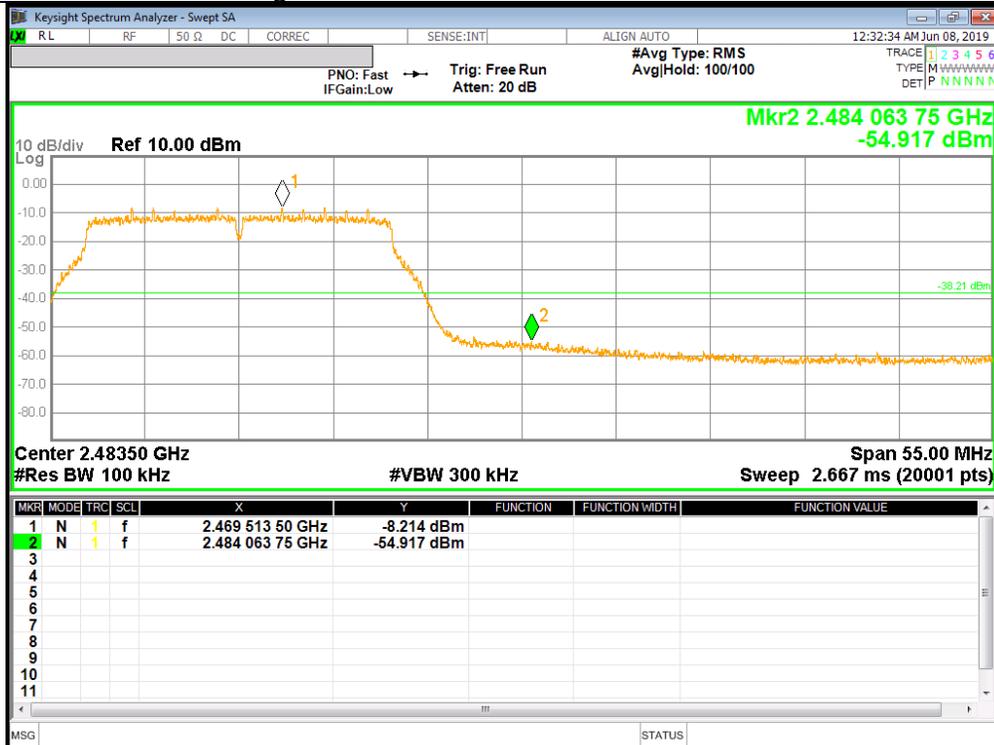


ANT1



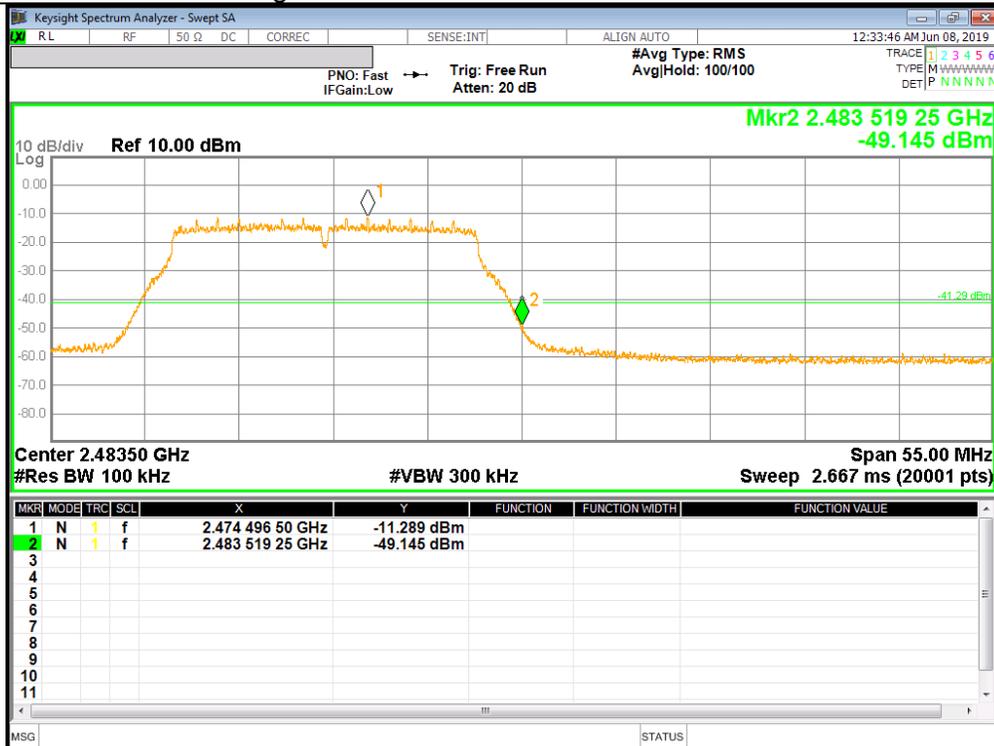
ANT1

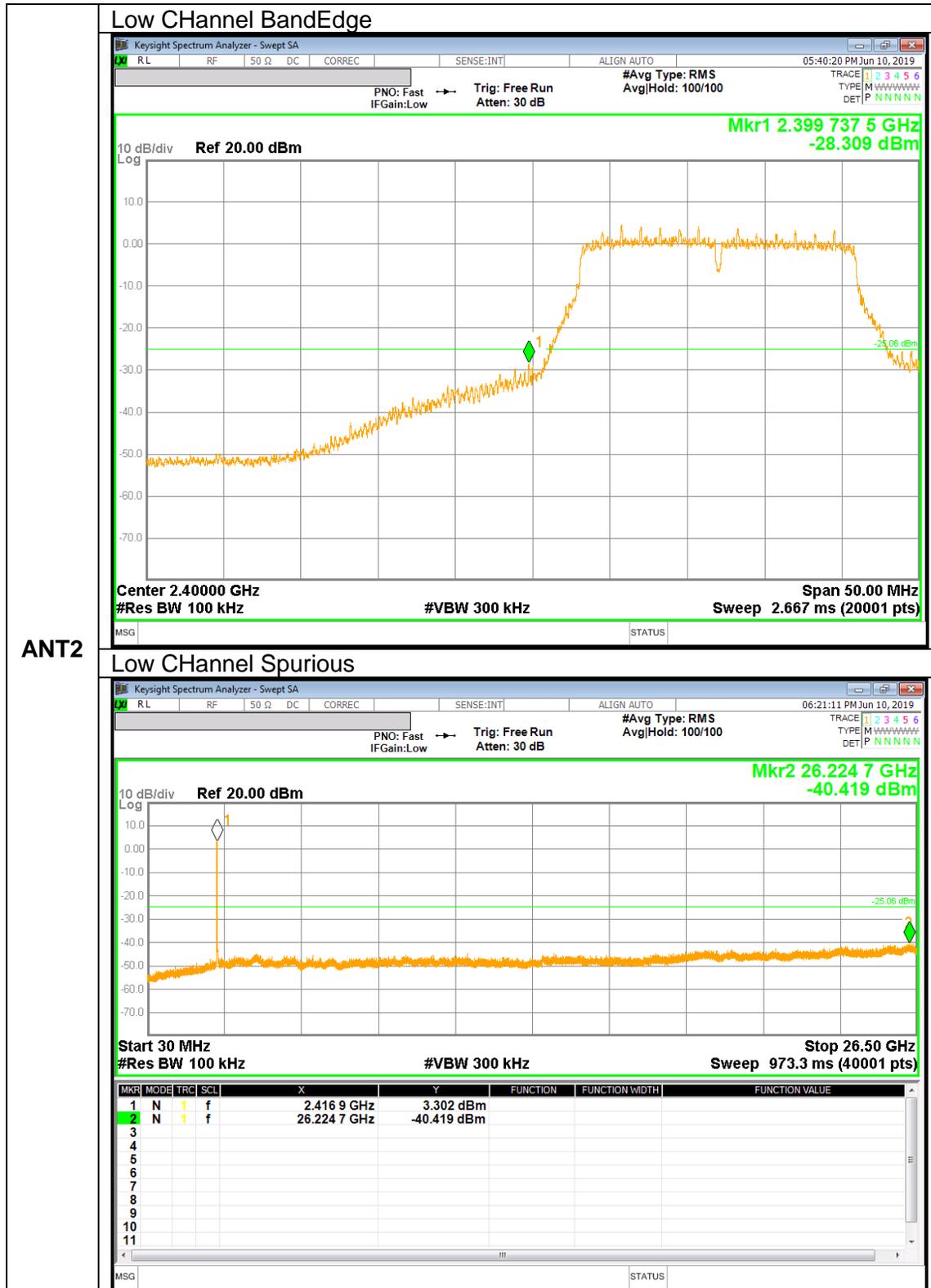
12 Channel BandEdge

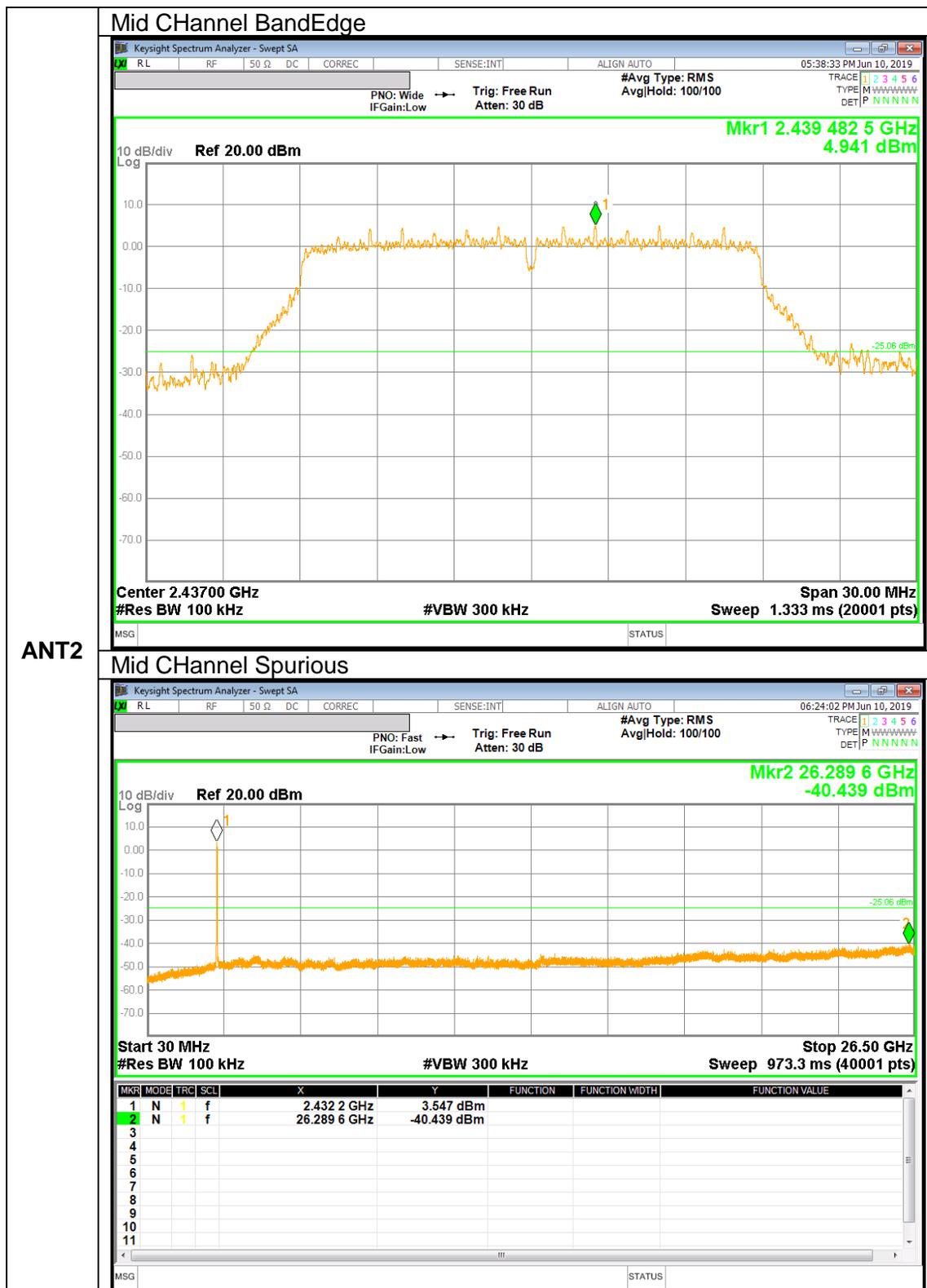


ANT1

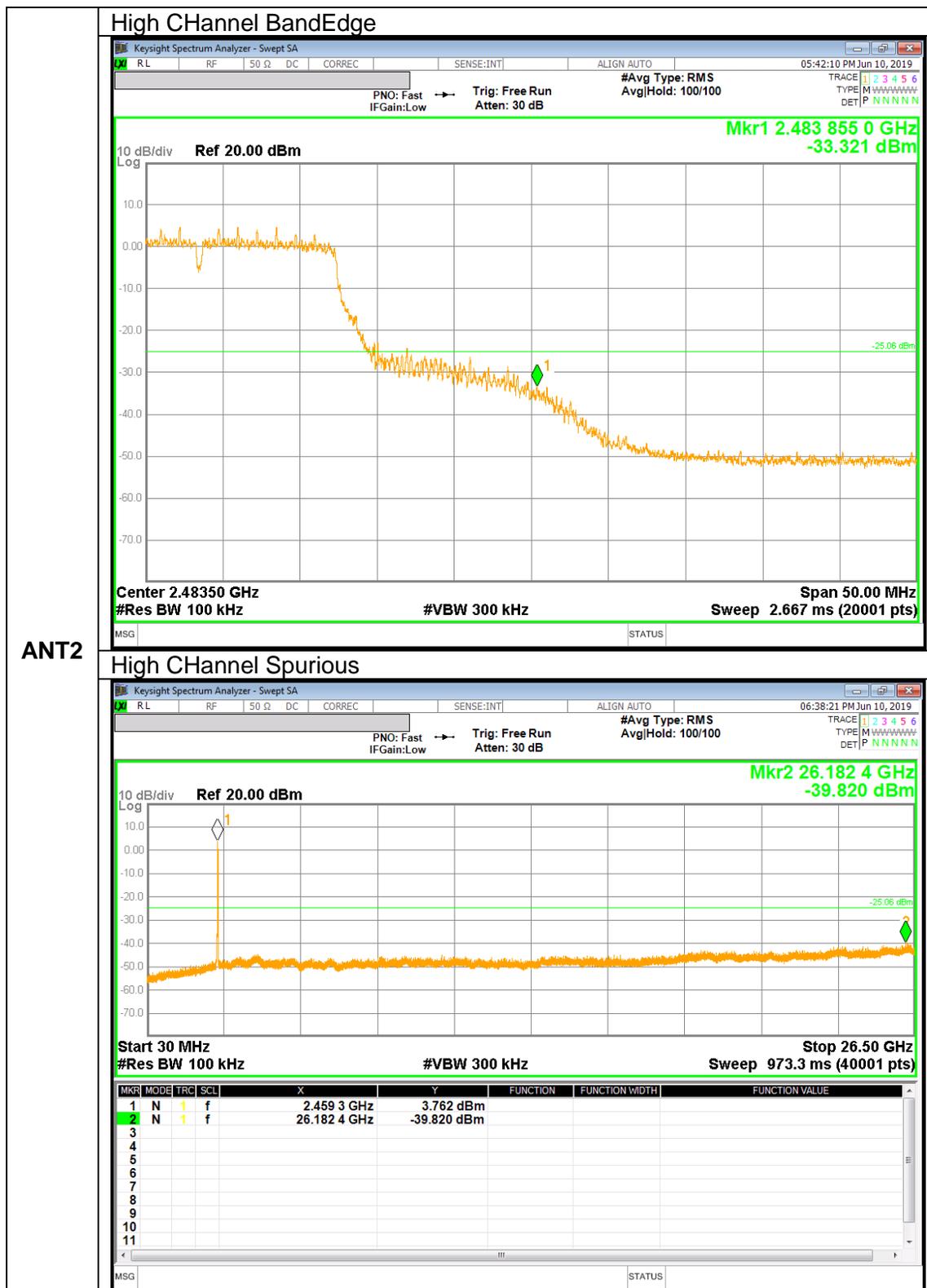
13 Channel BandEdge





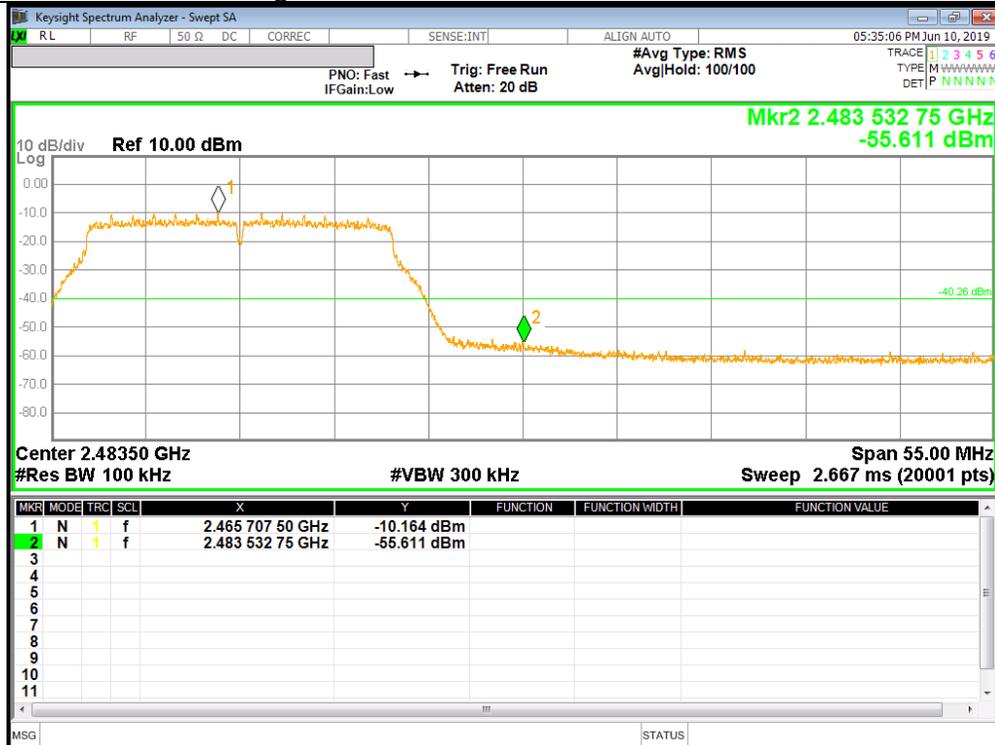


ANT2



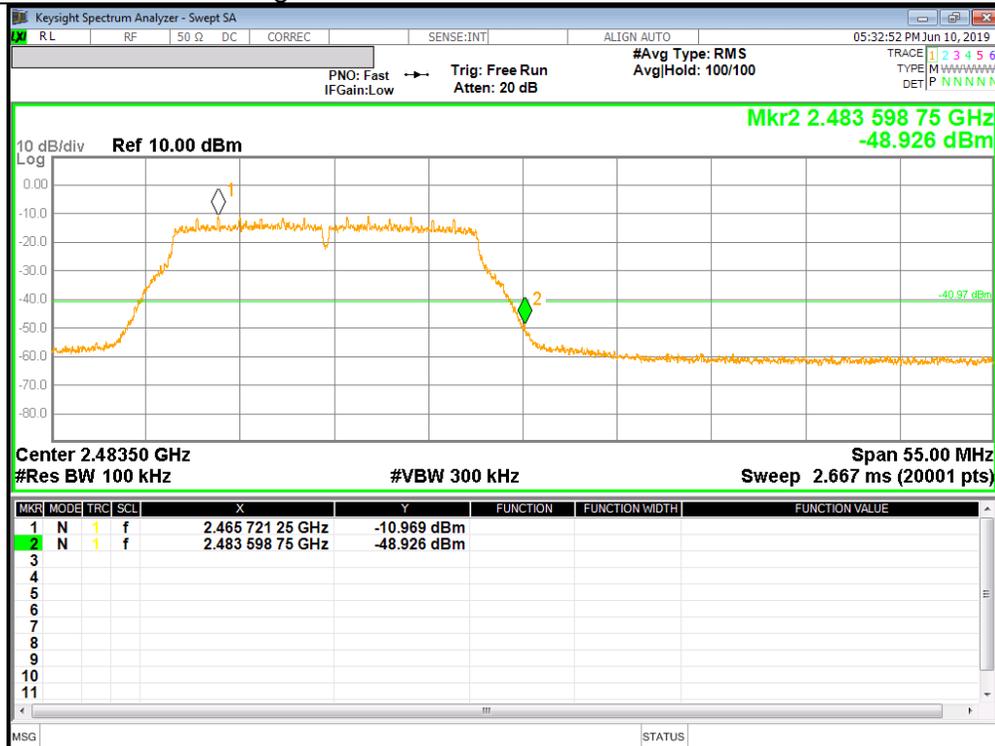
ANT2

12 Channel BandEdge



ANT2

13 Channel BandEdge



11. RADIATED TEST RESULTS

11.1. LIMITS AND PROCEDURE

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.

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1GHz and 150 cm for above 1GHz. 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 = 0dB (duty cycle >98%); N mode = 0dB (duty cycle >98%).

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 9KHz to 30MHz; 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.

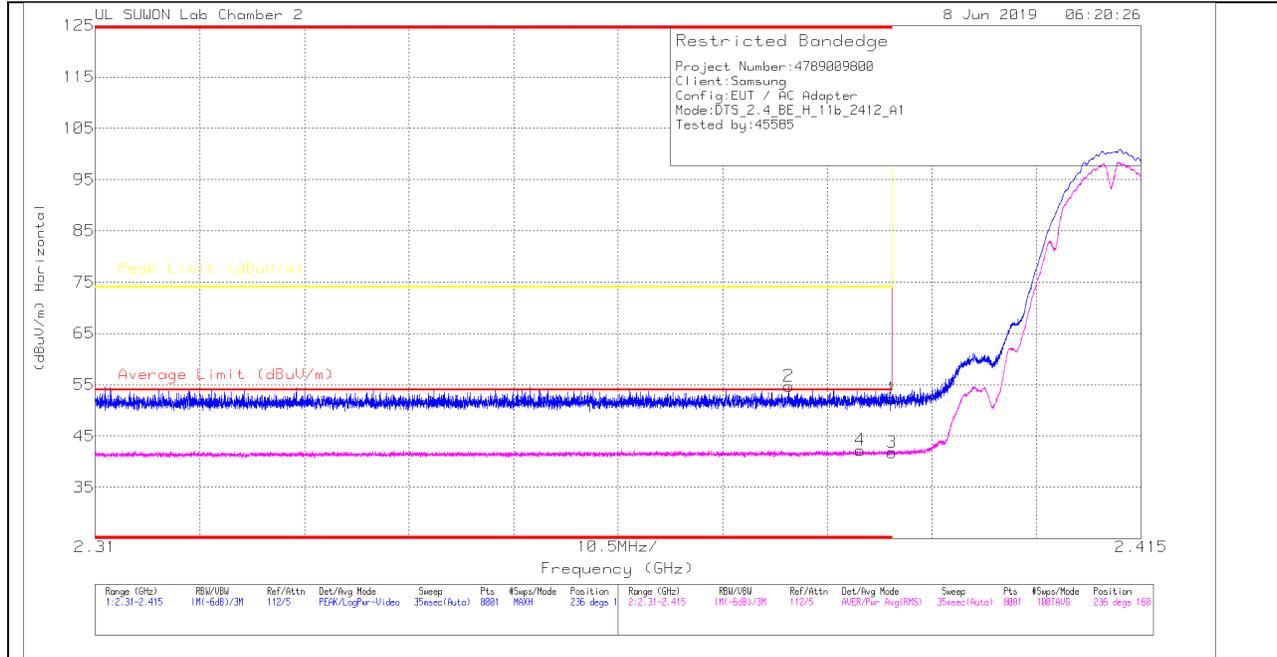
Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site.
Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the one of tests made in an open field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

11.2. TRANSMITTER ABOVE 1 GHz

11.2.1. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND ANT1

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

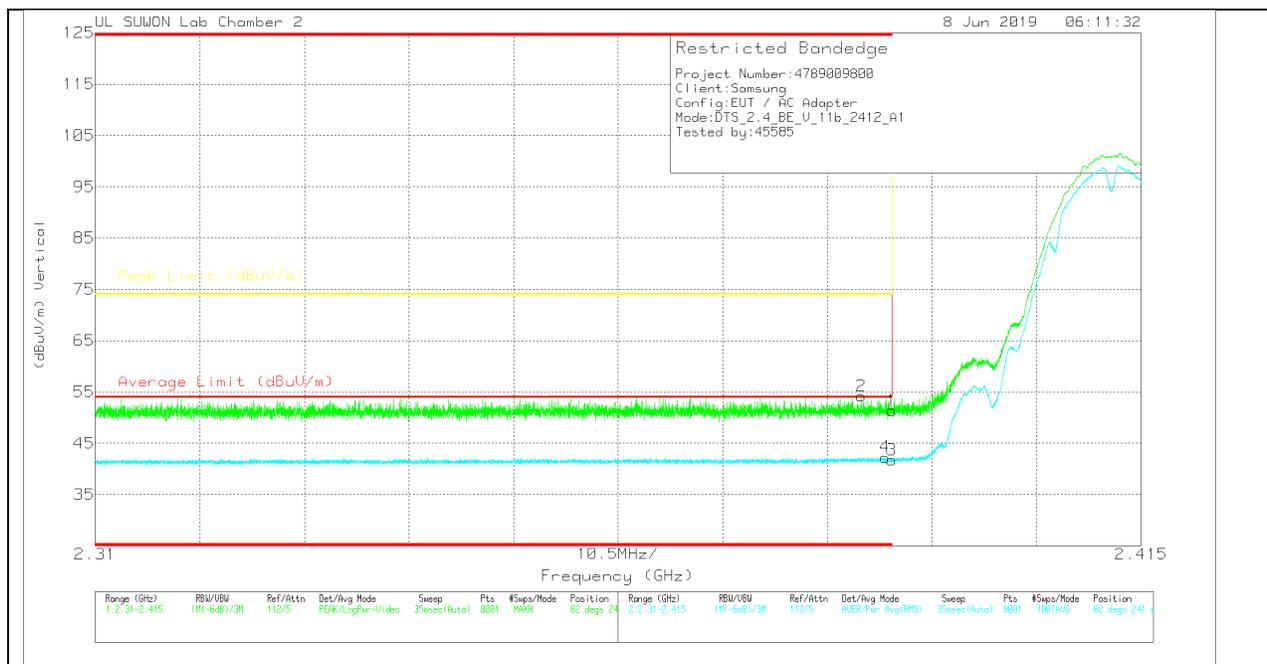
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.51	Pk	31.6	-20.8	0	52.31	-	-	74	-21.69	236	160	H
2	* 2.38	43.94	Pk	31.6	-20.8	0	54.74	-	-	74	-19.26	236	160	H
3	* 2.39	31.01	RMS	31.6	-20.8	0	41.81	54	-12.19	-	-	236	160	H
4	* 2.387	31.46	RMS	31.6	-20.8	0	42.26	54	-11.74	-	-	236	160	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(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	40.57	Pk	31.6	-20.8	0	51.37	-	-	74	-22.63	82	241	V
2	* 2.387	43.39	Pk	31.6	-20.8	0	54.19	-	-	74	-19.81	82	241	V
3	* 2.39	30.9	RMS	31.6	-20.8	0	41.7	54	-12.3	-	-	82	241	V
4	* 2.389	31.48	RMS	31.6	-20.8	0	42.28	54	-11.72	-	-	82	241	V

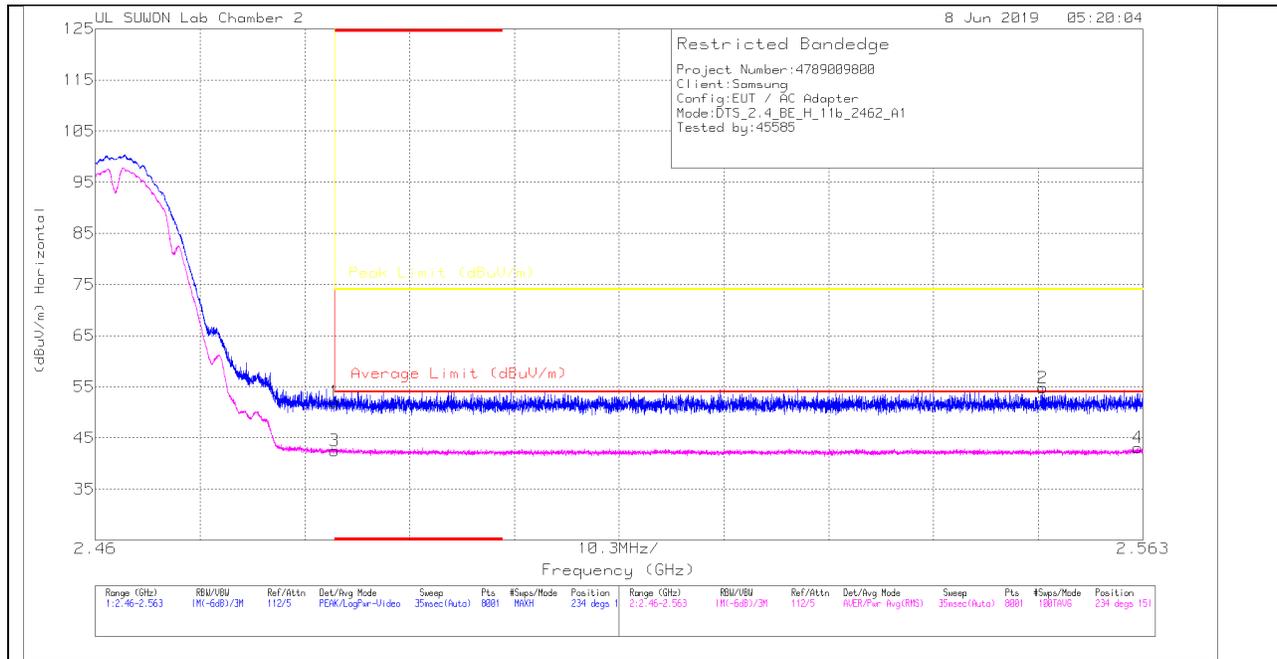
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

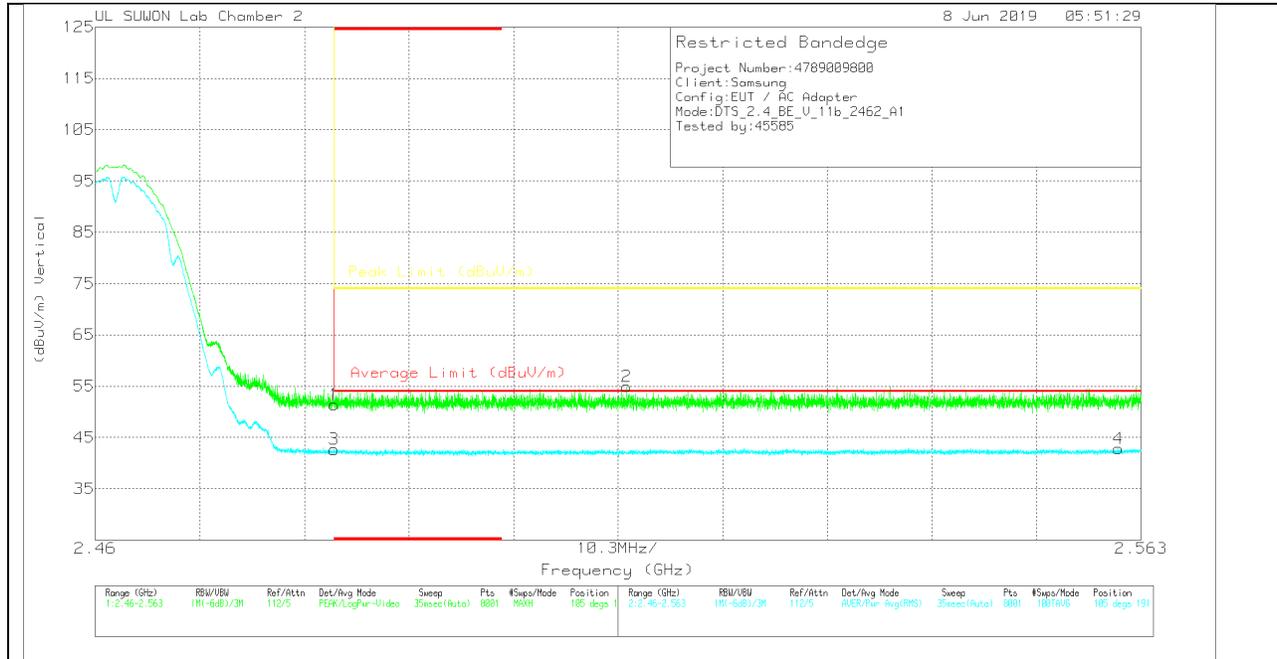
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.78	Pk	31.9	-20.6	0	52.08	-	-	74	-21.92	234	151	H
2	2.553	43.42	Pk	32	-20.6	0	54.82	-	-	74	-19.18	234	151	H
3	* 2.484	31.2	RMS	31.9	-20.6	0	42.5	54	-11.5	-	-	234	151	H
4	2.562	31.41	RMS	32	-20.3	0	43.11	54	-10.89	-	-	234	151	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(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	* 2.484	40.08	Pk	31.9	-20.6	0	51.38	-	-	74	-22.62	105	191	V
2	2.512	43.61	Pk	31.9	-20.6	0	54.91	-	-	74	-19.09	105	191	V
3	* 2.484	31.36	RMS	31.9	-20.6	0	42.66	54	-11.34	-	-	105	191	V
4	2.561	31.36	RMS	32	-20.5	0	42.86	54	-11.14	-	-	105	191	V

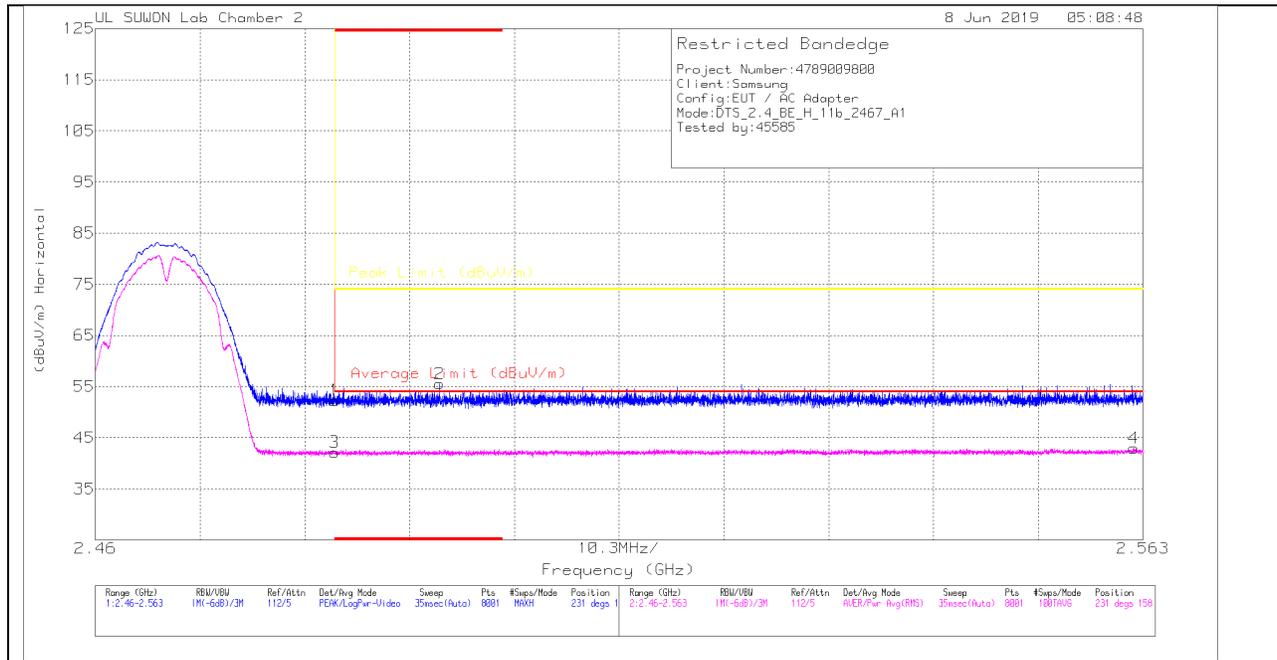
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (12 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

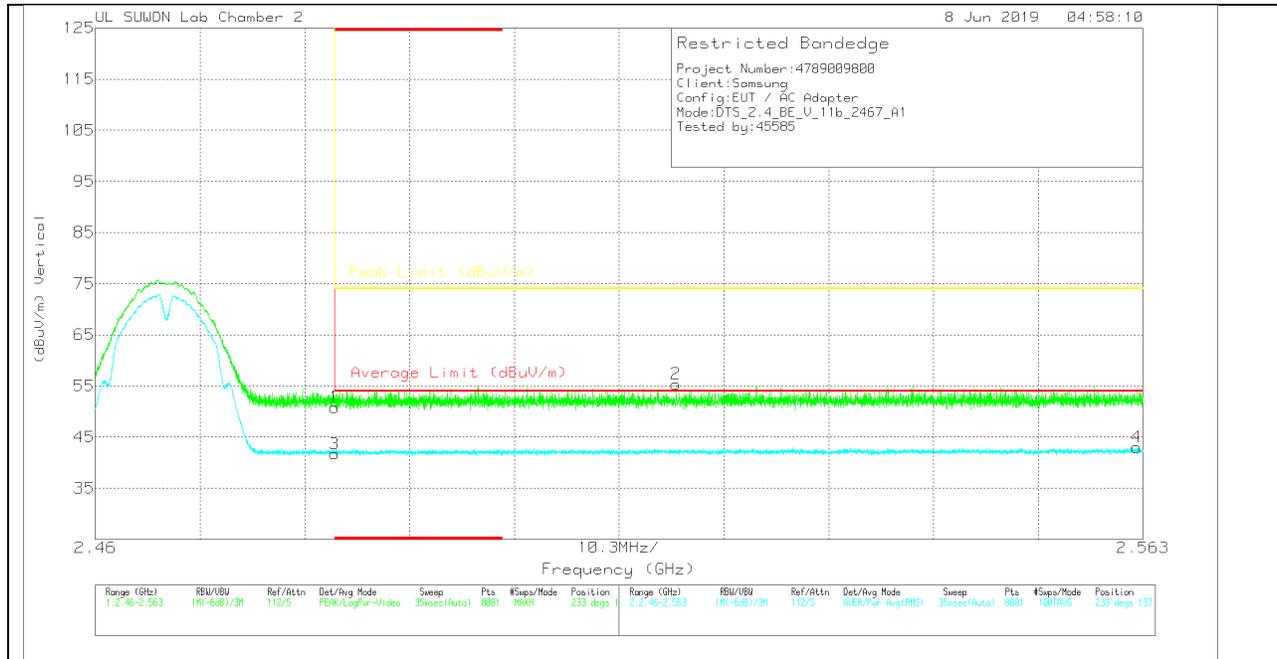
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.01	Pk	31.9	-20.6	0	52.31	-	-	74	-21.69	231	158	H
2	* 2.494	44.21	Pk	31.9	-20.6	0	55.51	-	-	74	-18.49	231	158	H
3	* 2.484	30.84	RMS	31.9	-20.6	0	42.14	54	-11.86	-	-	231	158	H
4	2.562	31.23	RMS	32	-20.3	0	42.93	54	-11.07	-	-	231	158	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Asmuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.52	Pk	31.9	-20.6	0	50.82	-	-	74	-23.18	233	137	V
2	2.517	44.06	Pk	31.9	-20.6	0	55.36	-	-	74	-18.64	233	137	V
3	* 2.484	30.45	RMS	31.9	-20.6	0	41.75	54	-12.25	-	-	233	137	V
4	2.562	31.33	RMS	32	-20.3	0	43.03	54	-10.97	-	-	233	137	V

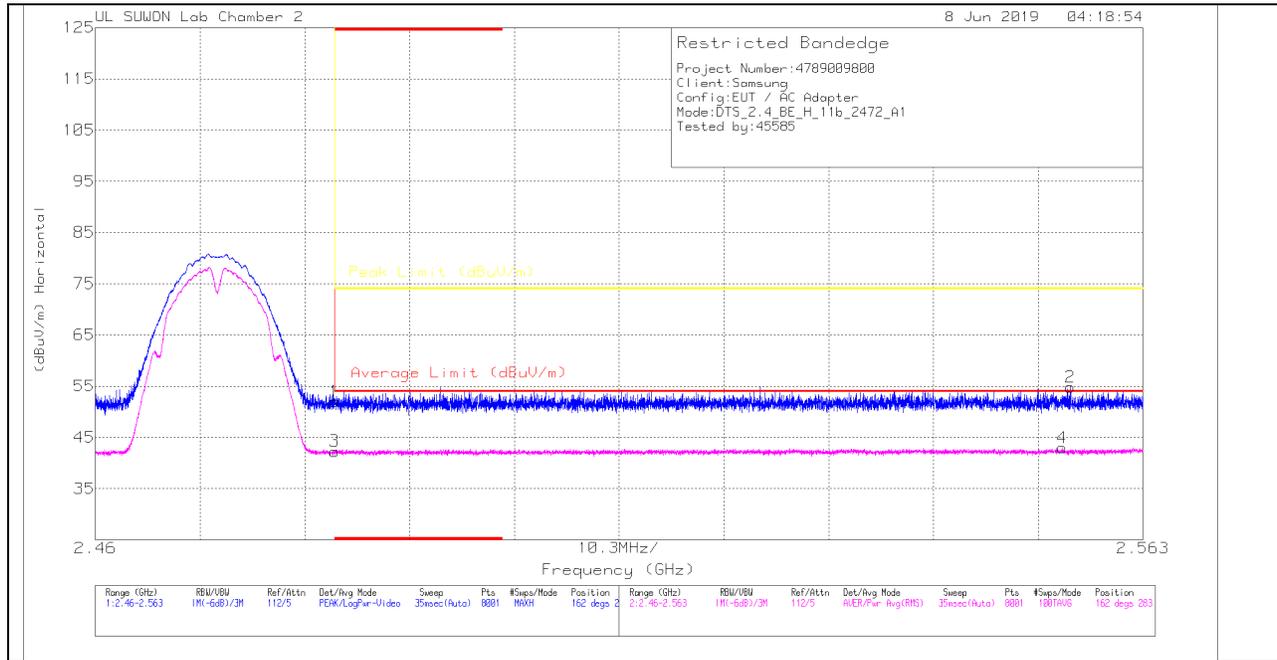
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (13 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

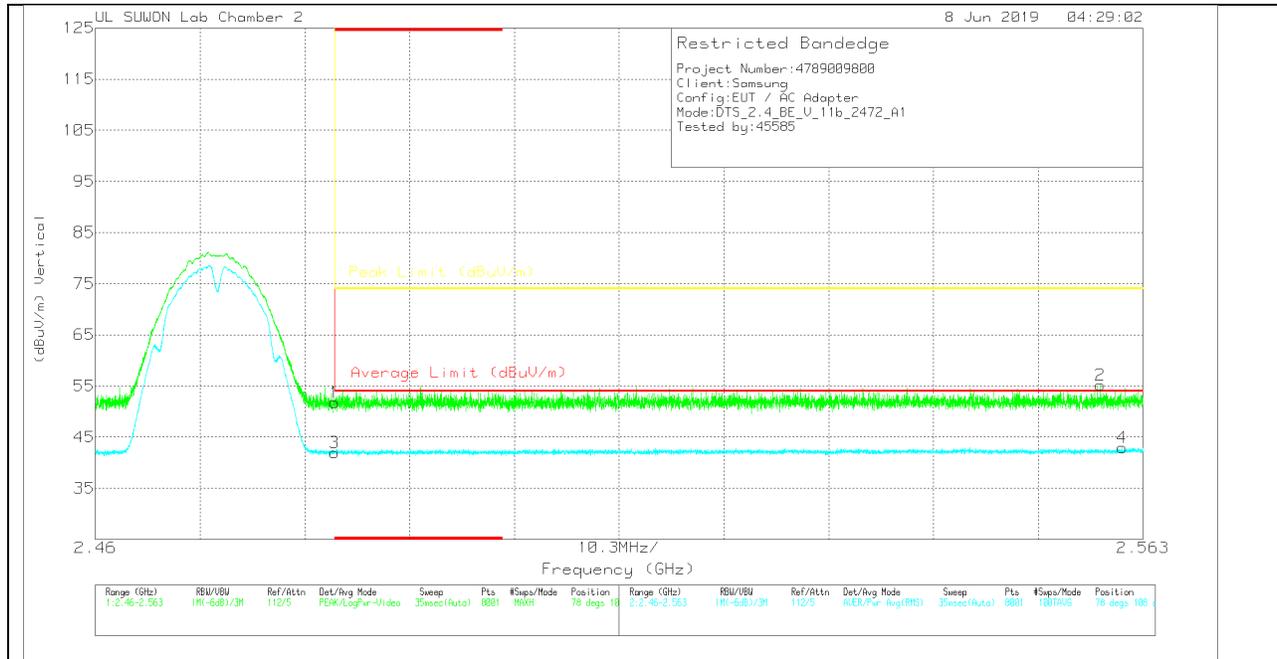
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.68	Pk	31.9	-20.6	0	51.98	-	-	74	-22.02	162	283	H
2	2.556	43.28	Pk	32	-20.5	0	54.78	-	-	74	-19.22	162	283	H
3	* 2.484	30.98	RMS	31.9	-20.6	0	42.28	54	-11.72	-	-	162	283	H
4	2.555	31.44	RMS	32	-20.5	0	42.94	54	-11.06	-	-	162	283	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Asmuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.48	Pk	31.9	-20.6	0	51.78	-	-	74	-22.22	78	108	V
2	2.559	43.65	Pk	32	-20.5	0	55.15	-	-	74	-18.85	78	108	V
3	* 2.484	30.68	RMS	31.9	-20.6	0	41.98	54	-12.02	-	-	78	108	V
4	2.561	31.42	RMS	32	-20.5	0	42.92	54	-11.08	-	-	78	108	V

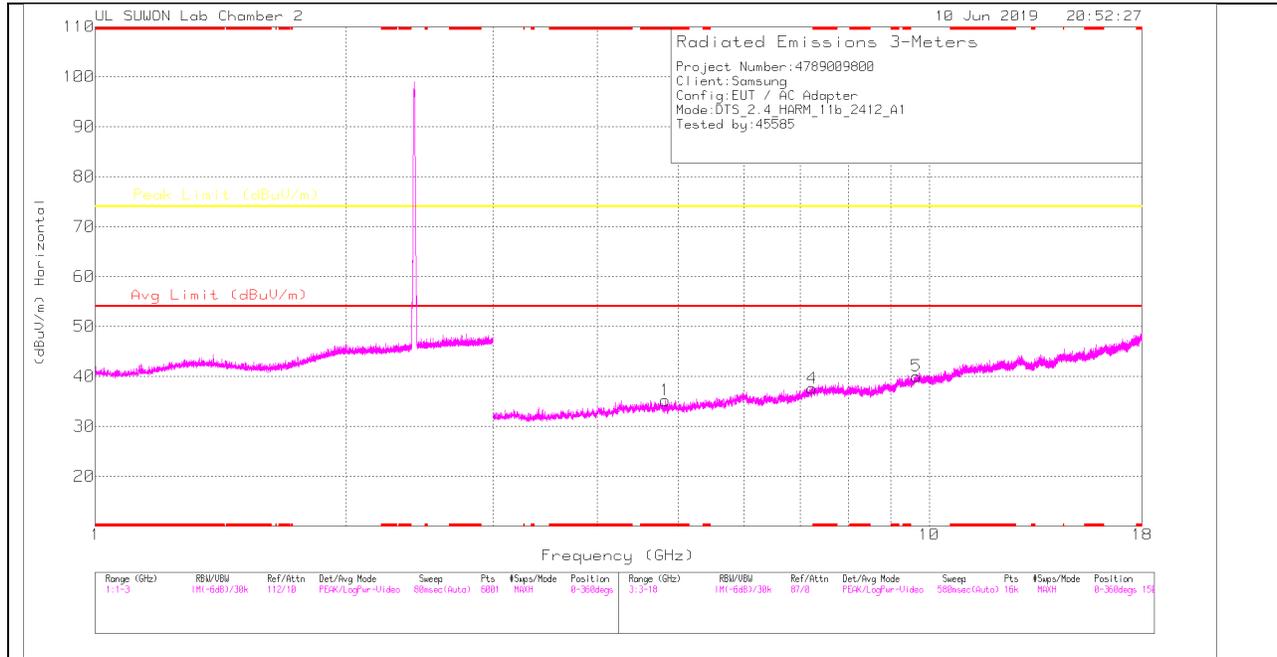
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

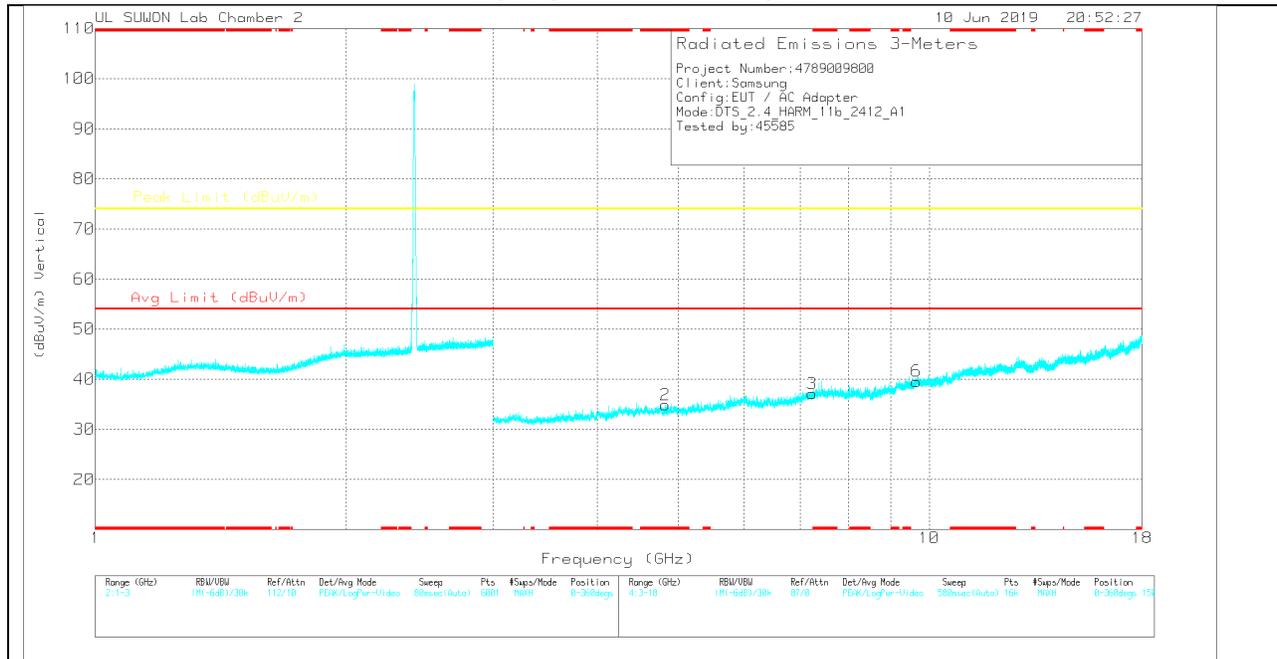
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL 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.

LOW CHANNEL DATA

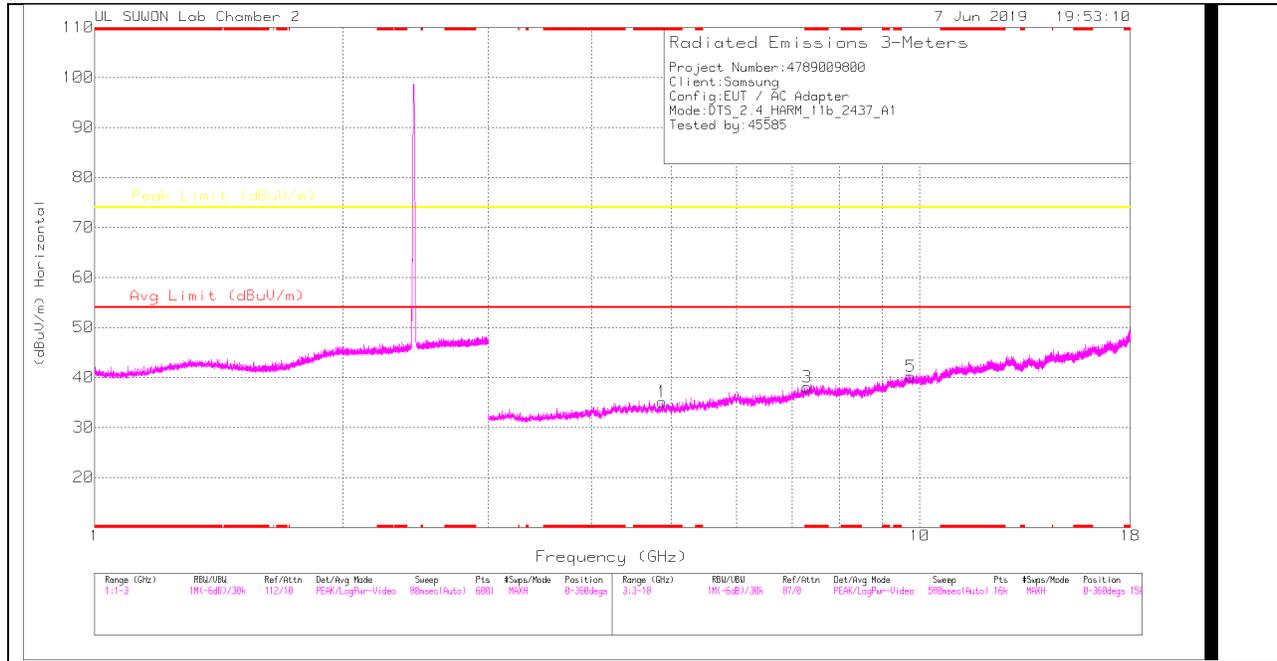
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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
1	* 4.823	29.4	PK	34	-28.2	0	35.2	-	-	74	-38.8	0-360	250	H
4	7.232	27.01	PK	36.1	-25.5	0	37.61	-	-	74	-36.39	0-360	150	H
5	9.647	24.76	PK	37	-21.7	0	40.06	-	-	74	-33.94	0-360	250	H
2	* 4.826	28.95	PK	34	-28.1	0	34.85	-	-	74	-39.15	0-360	150	V
3	7.237	26.5	PK	36.1	-25.5	0	37.1	-	-	74	-36.9	0-360	150	V
6	9.648	24.16	PK	37	-21.6	0	39.56	-	-	74	-34.44	0-360	250	V

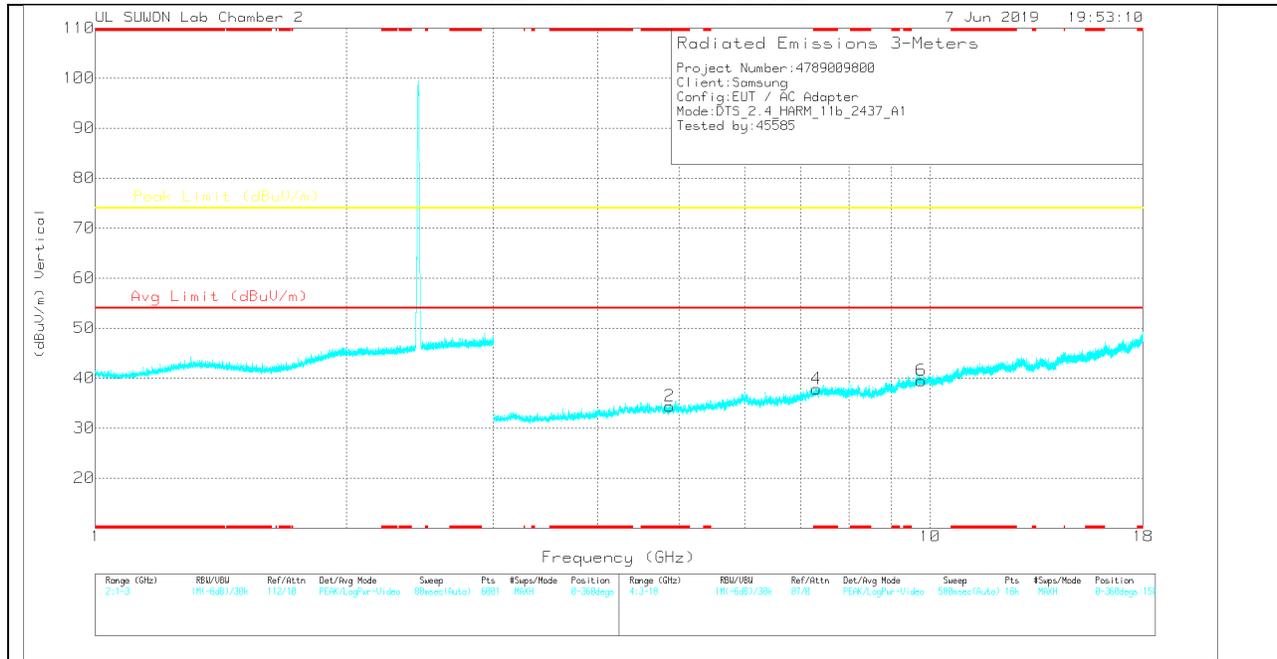
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

MID CHANNEL HORIZONTAL



MID CHANNEL 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.

MID CHANNEL DATA

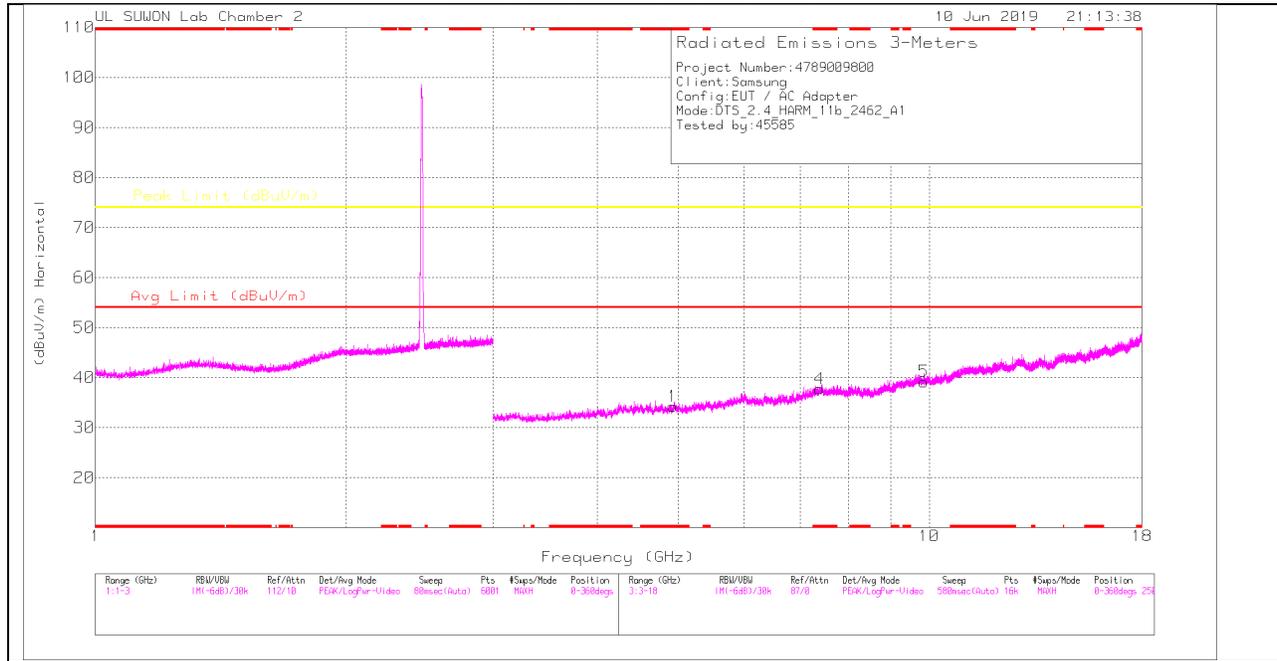
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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
1	* 4.874	29.11	PK	34	-28	0	35.11	-	-	74	-38.89	0-360	250	H
3	* 7.308	26.89	PK	36.2	-25	0	38.09	-	-	74	-35.91	0-360	250	H
5	9.758	24.5	PK	37.2	-21.5	0	40.2	-	-	74	-33.8	0-360	250	H
2	* 4.878	28.29	PK	34	-27.9	0	34.39	-	-	74	-39.61	0-360	150	V
4	* 7.308	26.67	PK	36.2	-25	0	37.87	-	-	74	-36.13	0-360	150	V
6	9.762	23.92	PK	37.2	-21.6	0	39.52	-	-	74	-34.48	0-360	250	V

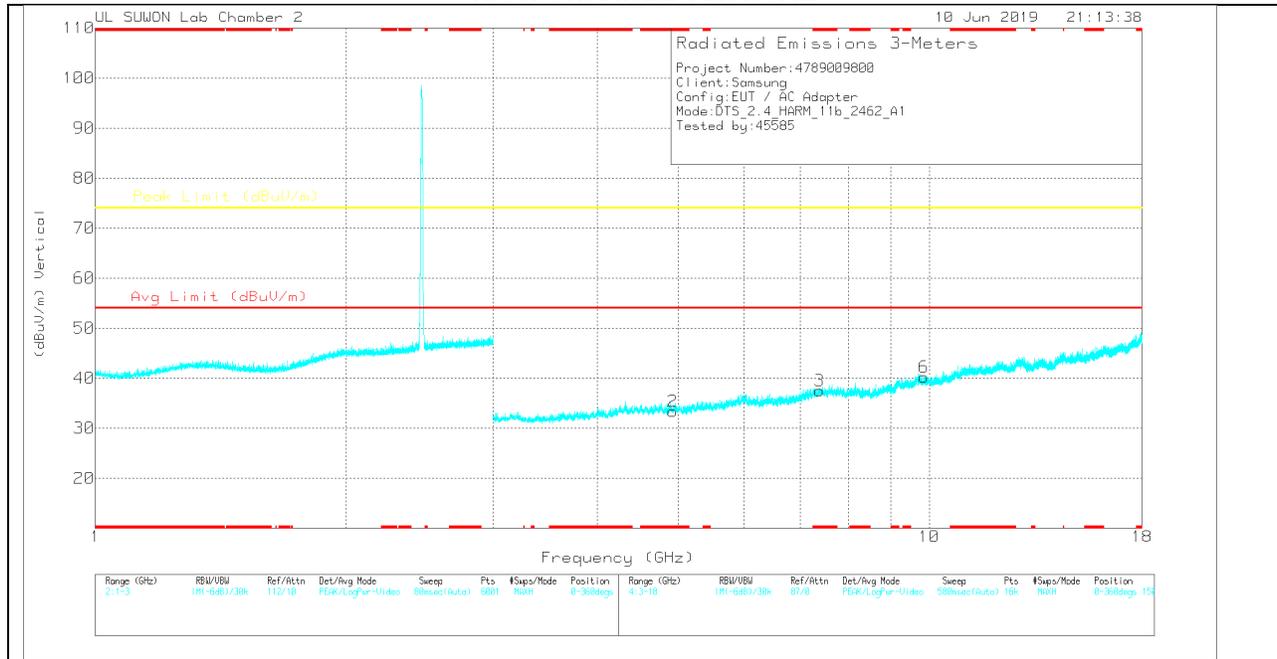
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL 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.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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
1	* 4.925	27.45	PK	34	-27.2	0	34.25	-	-	74	-39.75	0-360	250	H
4	* 7.386	25.74	PK	36.2	-24.2	0	37.74	-	-	74	-36.26	0-360	150	H
5	9.848	23.69	PK	37.3	-21.8	0	39.19	-	-	74	-34.81	0-360	250	H
2	* 4.925	26.58	PK	34	-27.2	0	33.38	-	-	74	-40.62	0-360	150	V
3	* 7.385	25.59	PK	36.2	-24.3	0	37.49	-	-	74	-36.51	0-360	250	V
6	9.848	24.75	PK	37.3	-21.8	0	40.25	-	-	74	-33.75	0-360	250	V

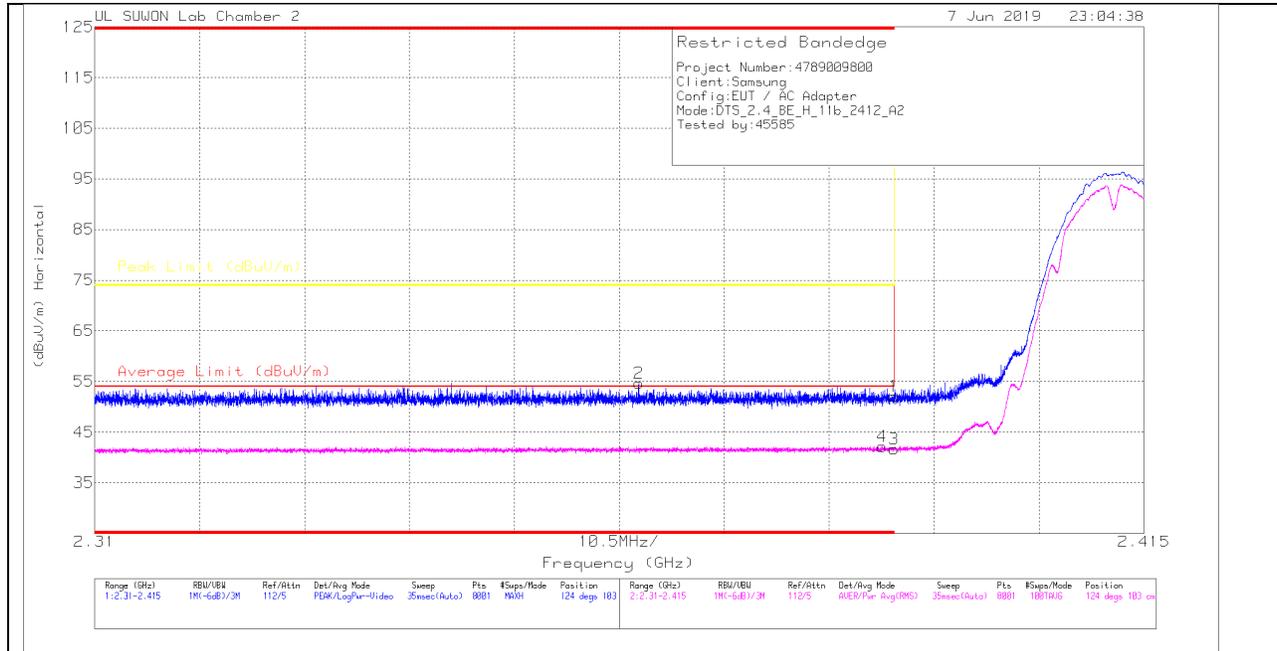
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

11.2.2. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND ANT2

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

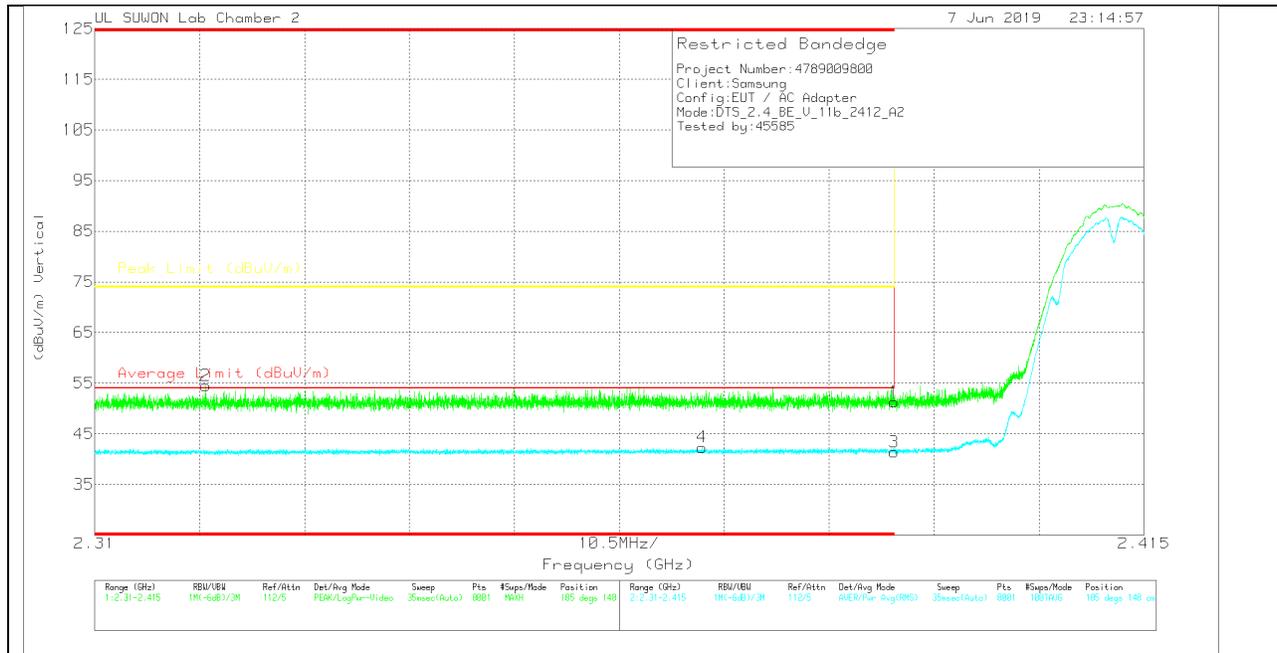
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	41.25	Pk	31.6	-20.8	0	52.05	-	-	74	-21.95	124	103	H
2	* 2.364	43.9	Pk	31.6	-20.8	0	54.7	-	-	74	-19.3	124	103	H
3	* 2.39	30.82	RMS	31.6	-20.8	0	41.62	54	-12.38	-	-	124	103	H
4	* 2.389	31.4	RMS	31.6	-20.8	0	42.2	54	-11.8	-	-	124	103	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB[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	40.56	Pk	31.6	-20.8	0	51.36	-	-	74	-22.64	185	148	V
2	* 2.321	43.92	Pk	31.5	-20.9	0	54.52	-	-	74	-19.48	185	148	V
3	* 2.39	30.63	RMS	31.6	-20.8	0	41.43	54	-12.57	-	-	185	148	V
4	* 2.371	31.55	RMS	31.6	-20.8	0	42.35	54	-11.65	-	-	185	148	V

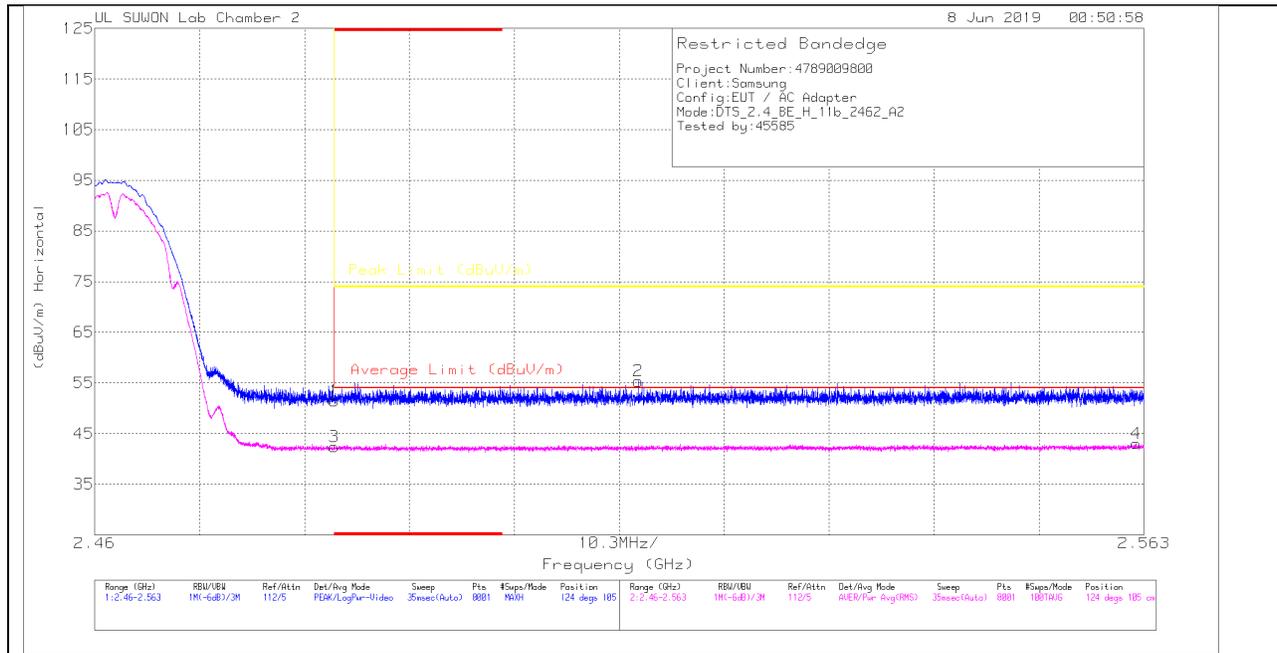
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

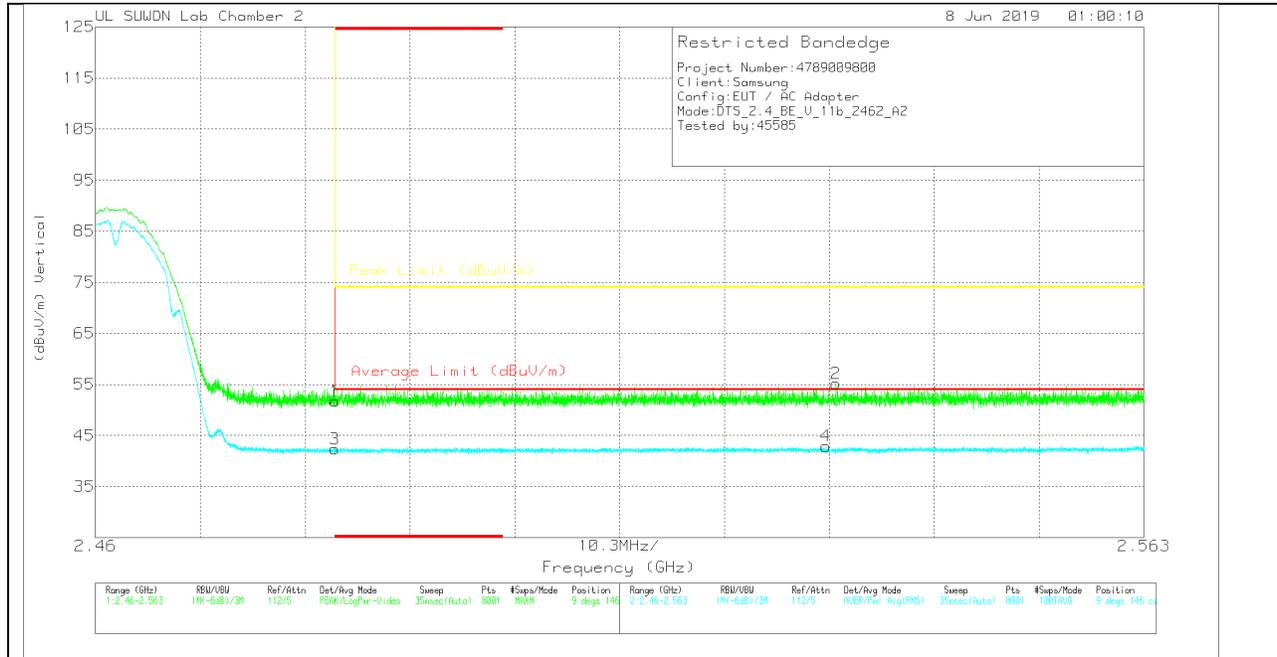
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168734	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Asimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.15	Pk	31.9	-20.6	0	51.45	-	-	74	-22.55	124	105	H
2	2.513	44.04	Pk	31.9	-20.6	0	55.34	-	-	74	-18.66	124	105	H
3	* 2.484	31.08	RMS	31.9	-20.6	0	42.38	54	-11.62	-	-	124	105	H
4	2.562	31.33	RMS	32	-20.3	0	43.03	54	-10.97	-	-	124	105	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

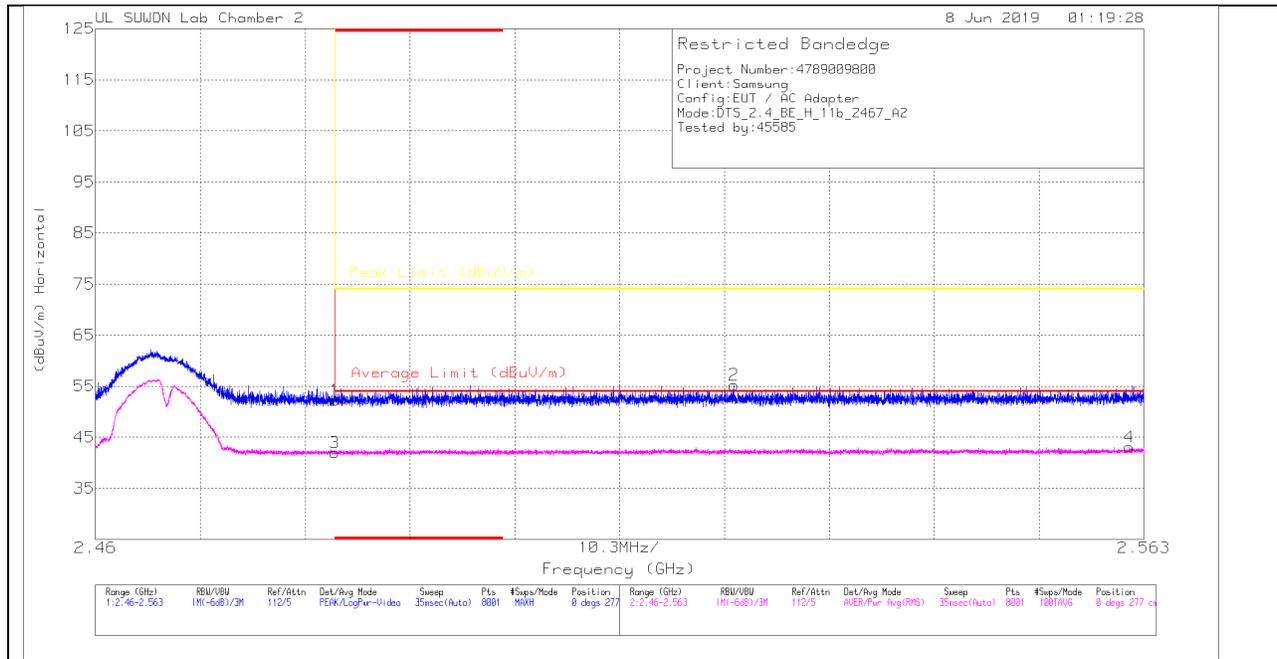
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(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	* 2.484	40.44	Pk	31.9	-20.6	0	51.74	-	-	74	-22.26	9	146	V
2	2.533	43.74	Pk	32	-20.6	0	55.14	-	-	74	-18.86	9	146	V
3	* 2.484	31.05	RMS	31.9	-20.6	0	42.35	54	-11.65	-	-	9	146	V
4	2.532	31.61	RMS	32	-20.7	0	42.91	54	-11.09	-	-	9	146	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

AUTHORIZED BANDEDGE (12 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

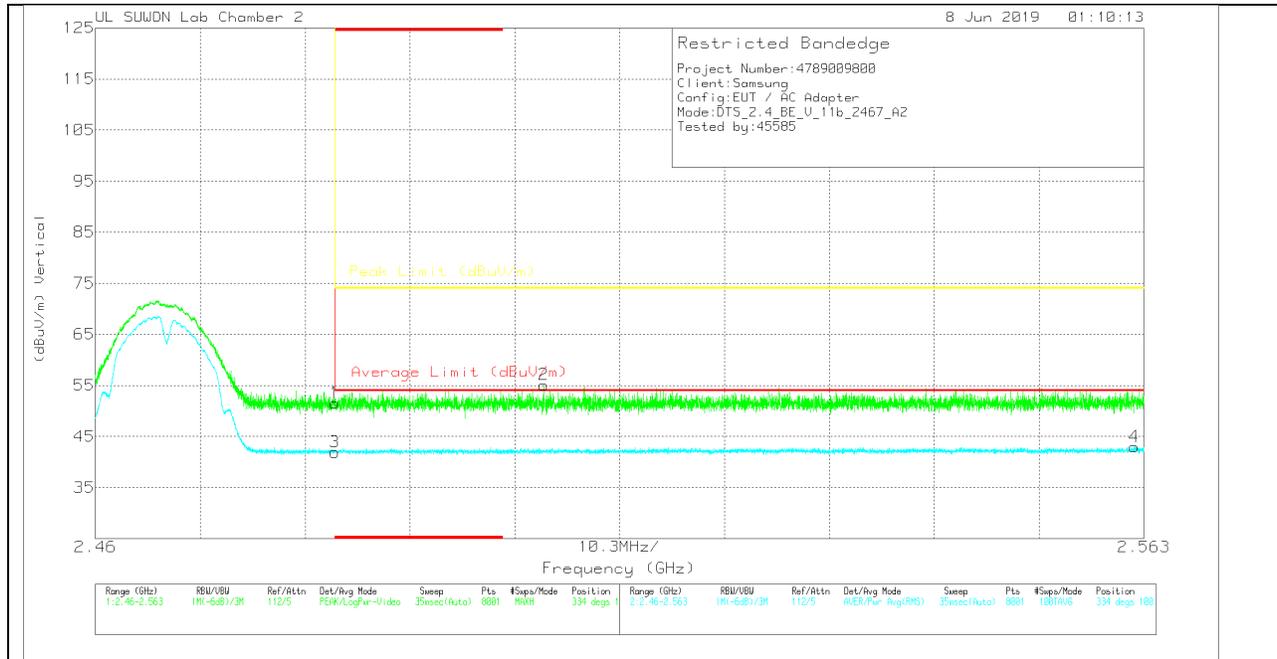
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.95	Pk	31.9	-20.6	0	52.25	-	-	74	-21.75	0	277	H
2	2.523	43.81	Pk	31.9	-20.5	0	55.21	-	-	74	-18.79	0	277	H
3	* 2.484	30.68	RMS	31.9	-20.6	0	41.98	54	-12.02	-	-	0	277	H
4	2.562	31.46	RMS	32	-20.4	0	43.06	54	-10.94	-	-	0	277	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Asmuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.25	Pk	31.9	-20.6	0	51.55	-	-	74	-22.45	334	100	V
2	2.504	43.82	Pk	31.9	-20.6	0	55.12	-	-	74	-18.88	334	100	V
3	* 2.484	30.64	RMS	31.9	-20.6	0	41.94	54	-12.06	-	-	334	100	V
4	2.562	31.29	RMS	32	-20.3	0	42.99	54	-11.01	-	-	334	100	V

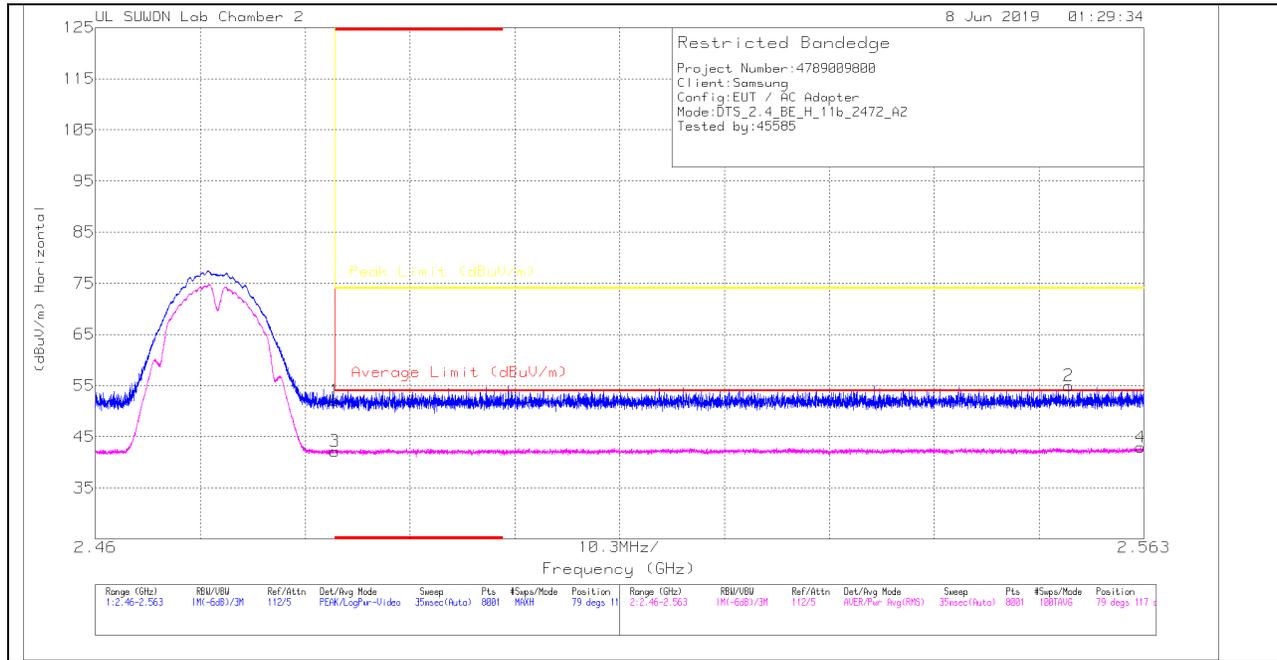
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (13 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

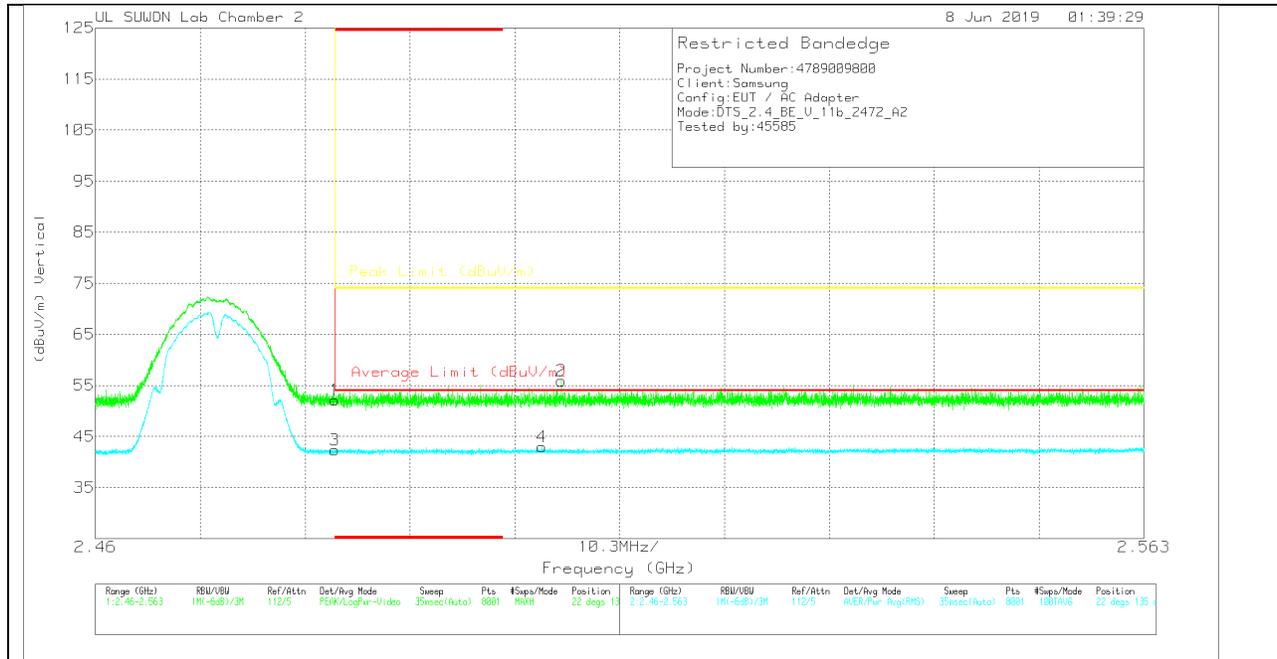
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.84	Pk	31.9	-20.6	0	52.14	-	-	74	-21.86	79	117	H
2	2.556	43.47	Pk	32	-20.5	0	54.97	-	-	74	-19.03	79	117	H
3	* 2.484	30.85	RMS	31.9	-20.6	0	42.15	54	-11.85	-	-	79	117	H
4	2.563	31.26	RMS	32	-20.3	0	42.96	54	-11.04	-	-	79	117	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Asmuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.8	Pk	31.9	-20.6	0	52.1	-	-	74	-21.9	22	135	V
2	2.506	44.57	Pk	31.9	-20.6	0	55.87	-	-	74	-18.13	22	135	V
3	* 2.484	31.01	RMS	31.9	-20.6	0	42.31	54	-11.69	-	-	22	135	V
4	2.504	31.66	RMS	31.9	-20.6	0	42.96	54	-11.04	-	-	22	135	V

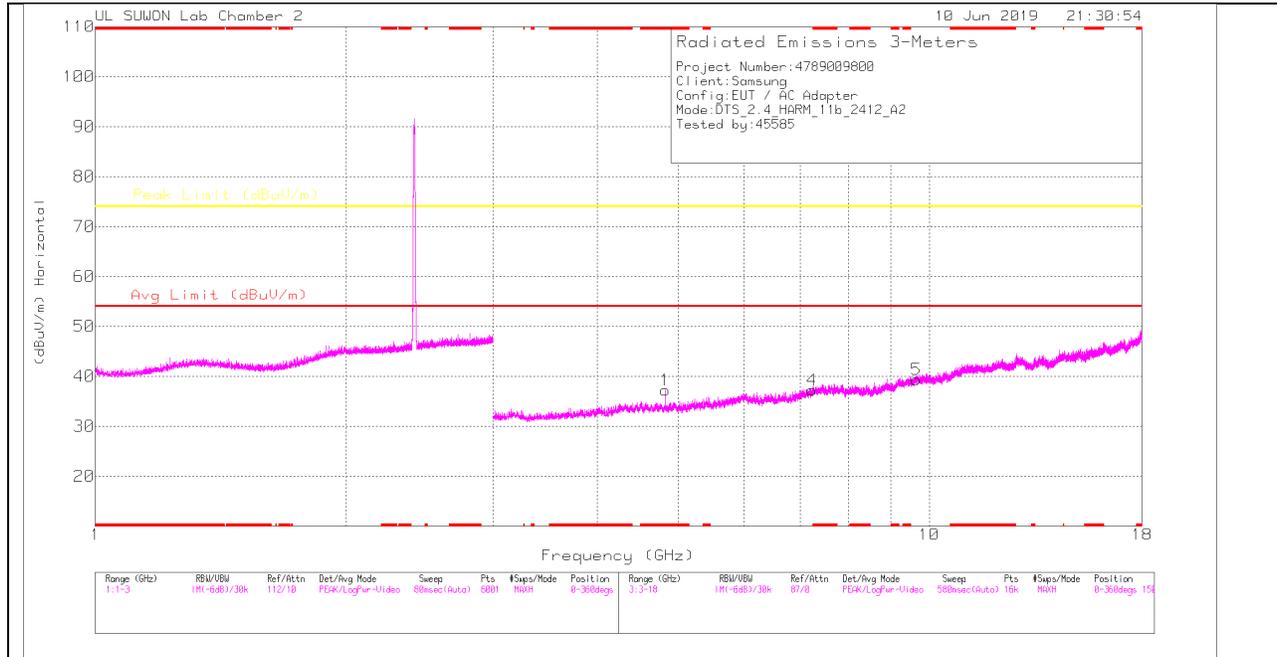
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

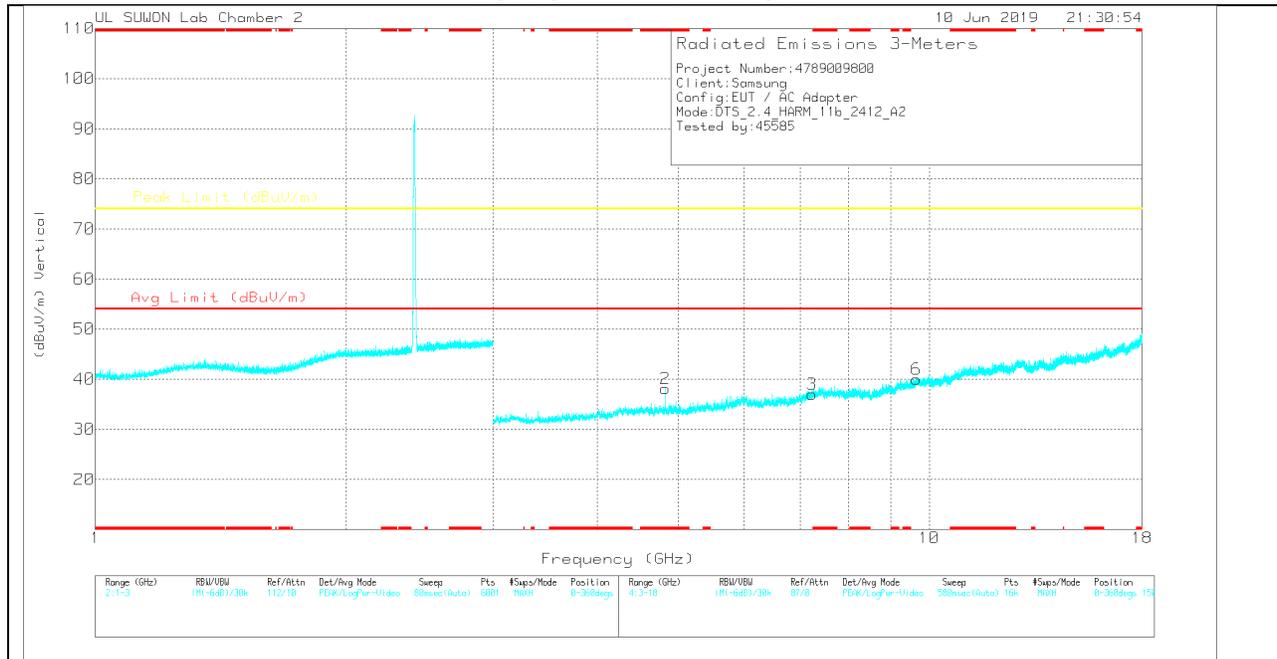
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL 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.

LOW CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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
1	* 4.823	31.46	PK	34	-28.2	0	37.26	-	-	74	-36.74	0-360	250	H
4	7.236	26.67	PK	36.1	-25.5	0	37.27	-	-	74	-36.73	0-360	250	H
5	9.649	23.94	PK	37	-21.6	0	39.34	-	-	74	-34.66	0-360	250	H
2	* 4.823	32.32	PK	34	-28.2	0	38.12	-	-	74	-35.88	0-360	250	V
3	7.235	26.4	PK	36.1	-25.5	0	37	-	-	74	-37	0-360	250	V
6	9.648	24.62	PK	37	-21.6	0	40.02	-	-	74	-33.98	0-360	150	V

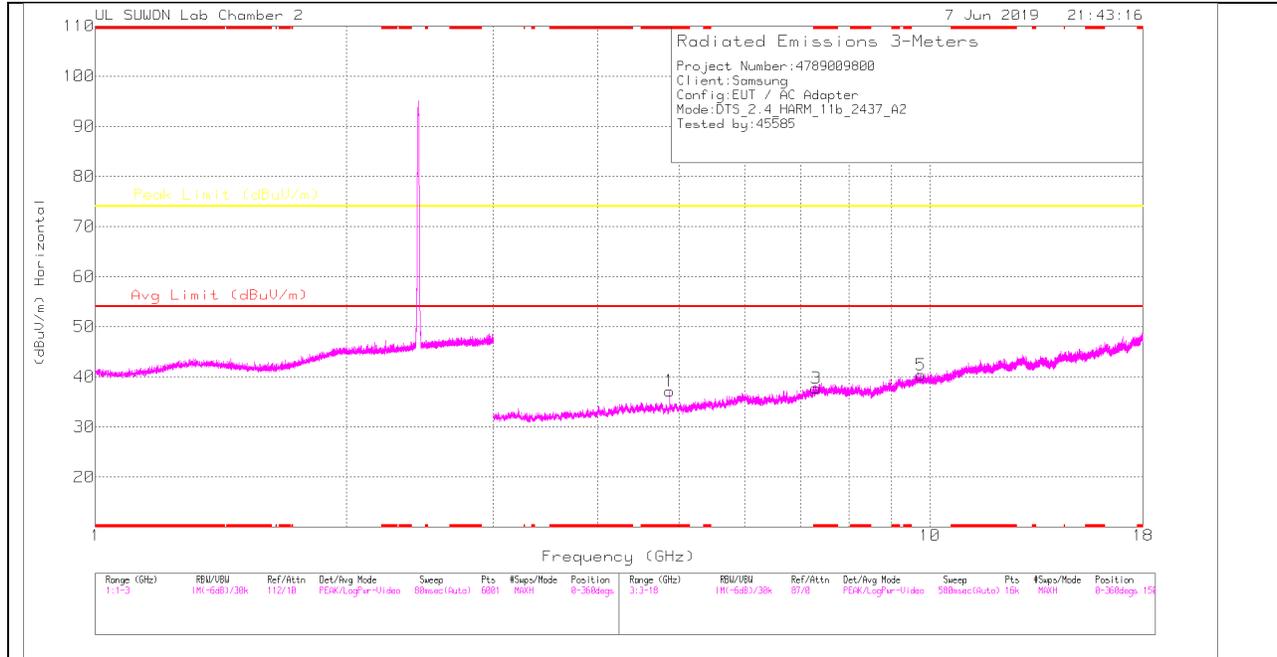
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

Radiated Emissions

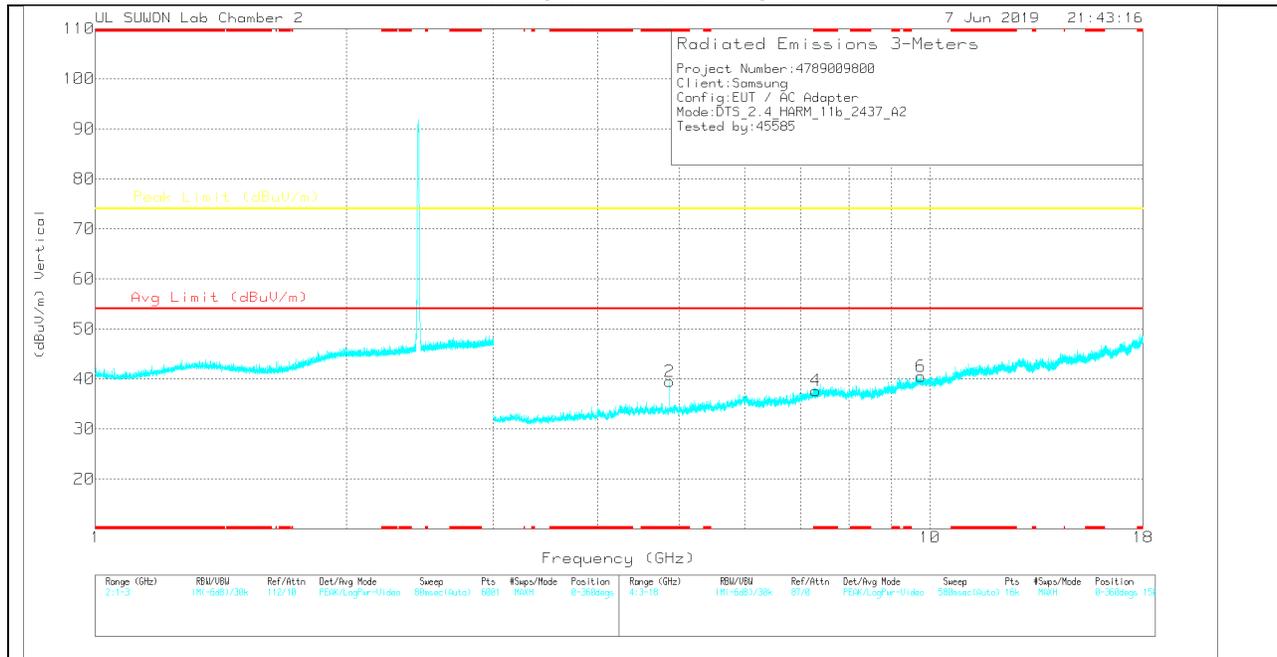
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.824	40.3	PK2	34	-28.1	0	46.2	-	-	74	-27.8	237	356	H
* 4.824	33.3	MAv1	34	-28.1	0	39.2	54	-14.8	-	-	237	356	H
* 4.824	39.37	PK2	34	-28.1	0	45.27	-	-	74	-28.73	226	129	V
* 4.824	31.37	MAv1	34	-28.1	0	37.27	54	-16.73	-	-	226	129	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 HORIZONTAL



MID CHANNEL 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.

MID CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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
1	* 4.874	31.17	PK	34	-28	0	37.17	-	-	74	-36.83	0-360	150	H
3	* 7.305	26.67	PK	36.2	-25.1	0	37.77	-	-	74	-36.23	0-360	250	H
5	9.751	24.59	PK	37.2	-21.4	0	40.39	-	-	74	-33.61	0-360	150	H
2	* 4.874	33.48	PK	34	-28	0	39.48	-	-	74	-34.52	0-360	150	V
4	* 7.303	26.57	PK	36.2	-25.1	0	37.67	-	-	74	-36.33	0-360	250	V
6	9.746	24.66	PK	37.2	-21.4	0	40.46	-	-	74	-33.54	0-360	150	V

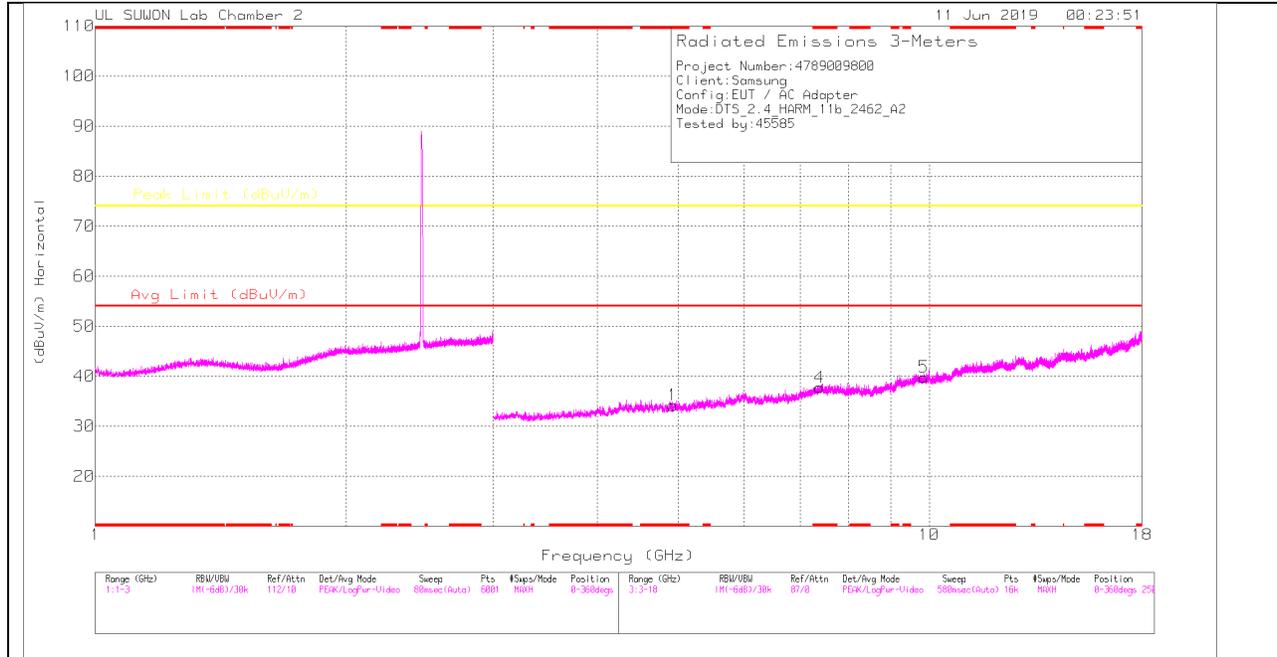
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

Radiated Emissions

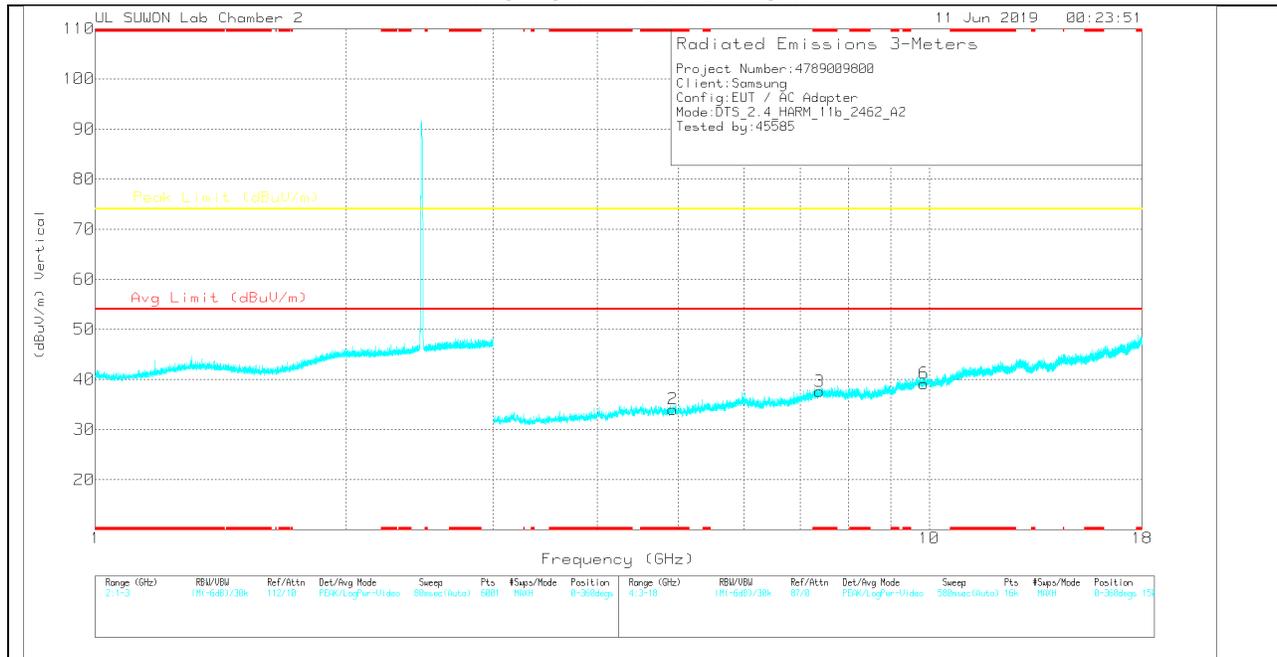
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.874	39.04	PK2	34	-28	0	45.04	-	-	74	-28.96	285	110	H
* 4.874	31.22	MAv1	34	-28	0	37.22	54	-16.78	-	-	285	110	H
* 4.874	40.21	PK2	34	-28	0	46.21	-	-	74	-27.79	229	128	V
* 4.874	33.53	MAv1	34	-28	0	39.53	54	-14.47	-	-	229	128	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 HORIZONTAL



HIGH CHANNEL 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.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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
1	* 4.924	27.51	PK	34	-27.3	0	34.21	-	-	74	-39.79	0-360	250	H
4	* 7.386	25.76	PK	36.2	-24.2	0	37.76	-	-	74	-36.24	0-360	150	H
5	9.849	24.29	PK	37.3	-21.8	0	39.79	-	-	74	-34.21	0-360	150	H
2	* 4.926	27.26	PK	34	-27.2	0	34.06	-	-	74	-39.94	0-360	250	V
3	* 7.386	25.6	PK	36.2	-24.2	0	37.6	-	-	74	-36.4	0-360	250	V
6	9.849	23.69	PK	37.3	-21.8	0	39.19	-	-	74	-34.81	0-360	250	V

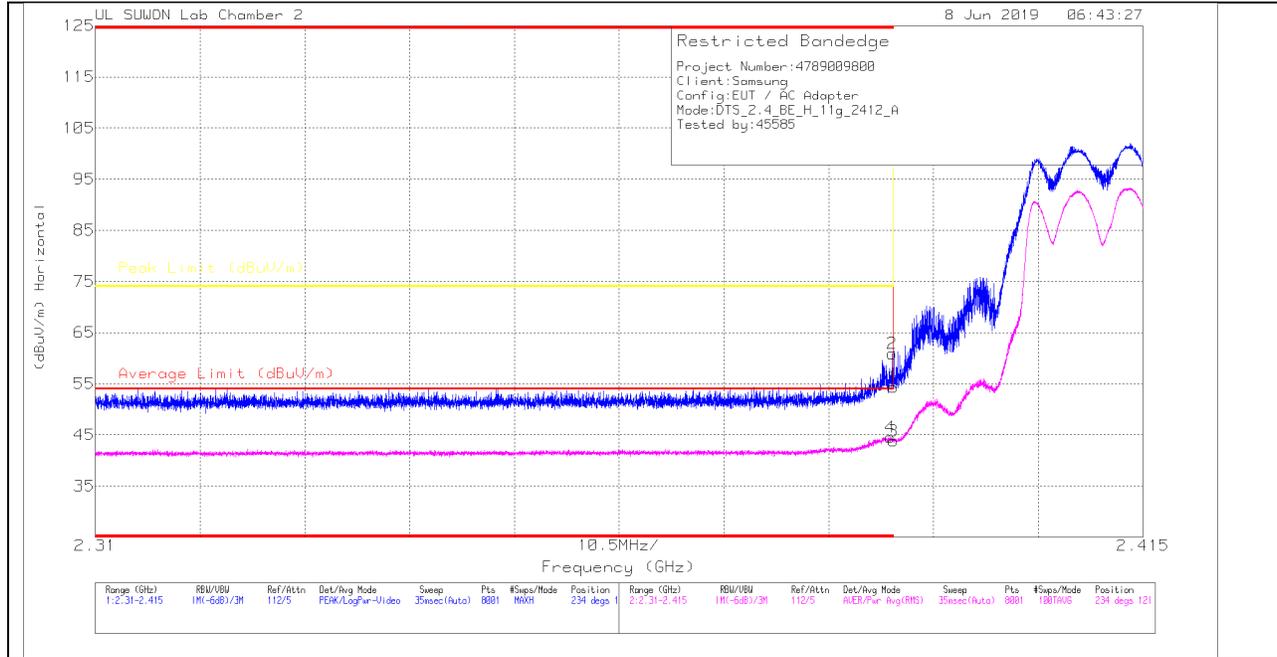
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

11.2.3. TX ABOVE 1 GHz 802.11g 2TX CDD MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

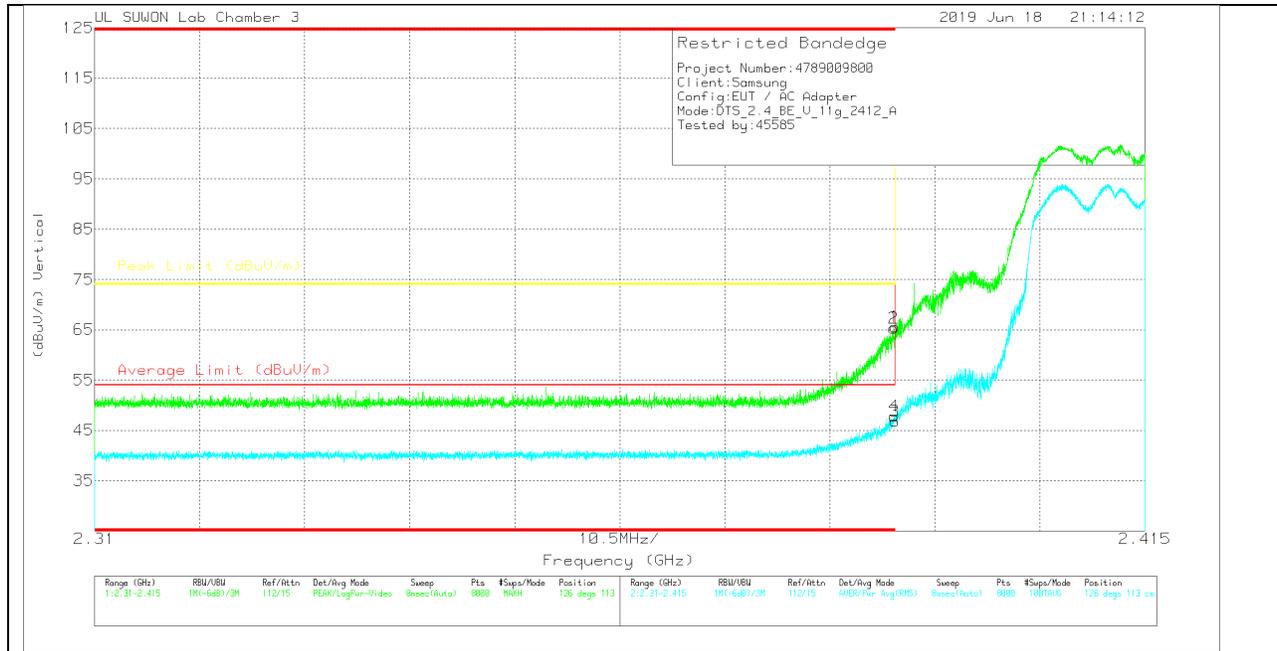
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	43.58	Pk	31.6	-20.8	0	54.38	-	-	74	-19.62	234	121	H
2	* 2.39	50.08	Pk	31.6	-20.8	0	60.88	-	-	74	-13.12	234	121	H
3	* 2.39	32.98	RMS	31.6	-20.8	0	43.78	54	-10.22	-	-	234	121	H
4	* 2.39	33.73	RMS	31.6	-20.8	0	44.53	54	-9.47	-	-	234	121	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00209859	10dB(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	57.25	Pk	31.7	-23.4	0	65.55	-	-	74	-8.45	126	113	V
2	* 2.39	57.06	Pk	31.7	-23.4	0	65.36	-	-	74	-8.64	126	113	V
3	* 2.39	38.49	RMS	31.7	-23.4	0	46.79	54	-7.21	-	-	126	113	V
4	* 2.39	39.56	RMS	31.7	-23.4	0	47.86	54	-6.14	-	-	126	113	V

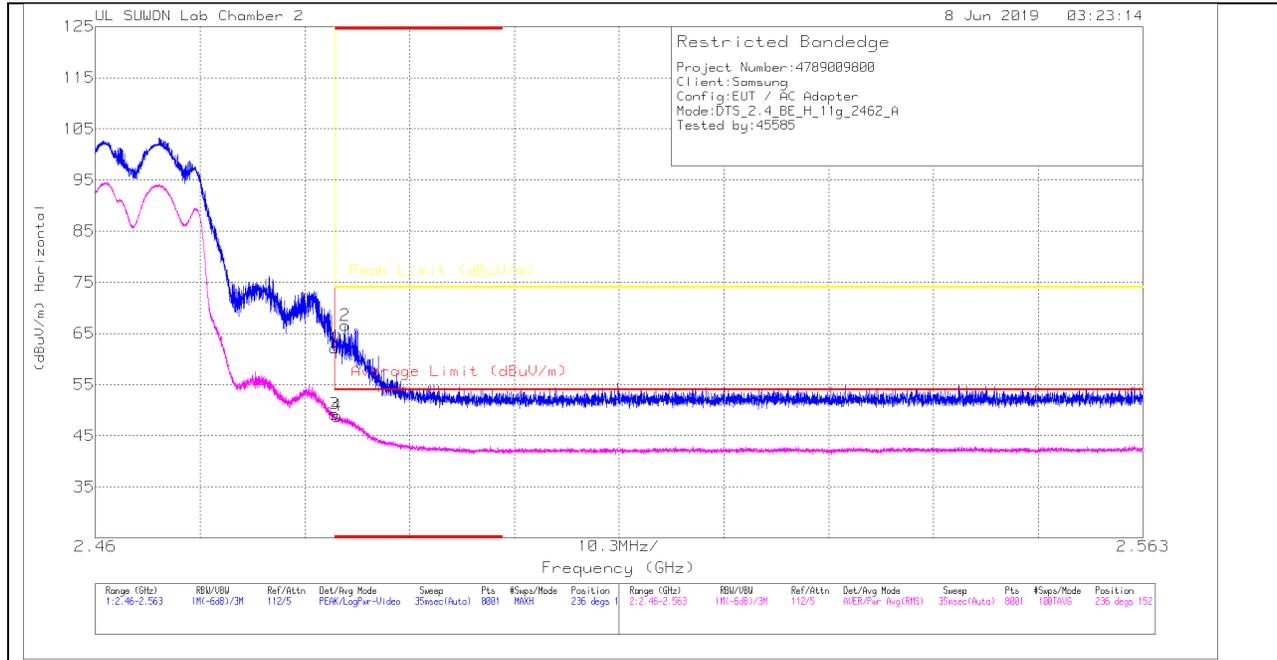
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

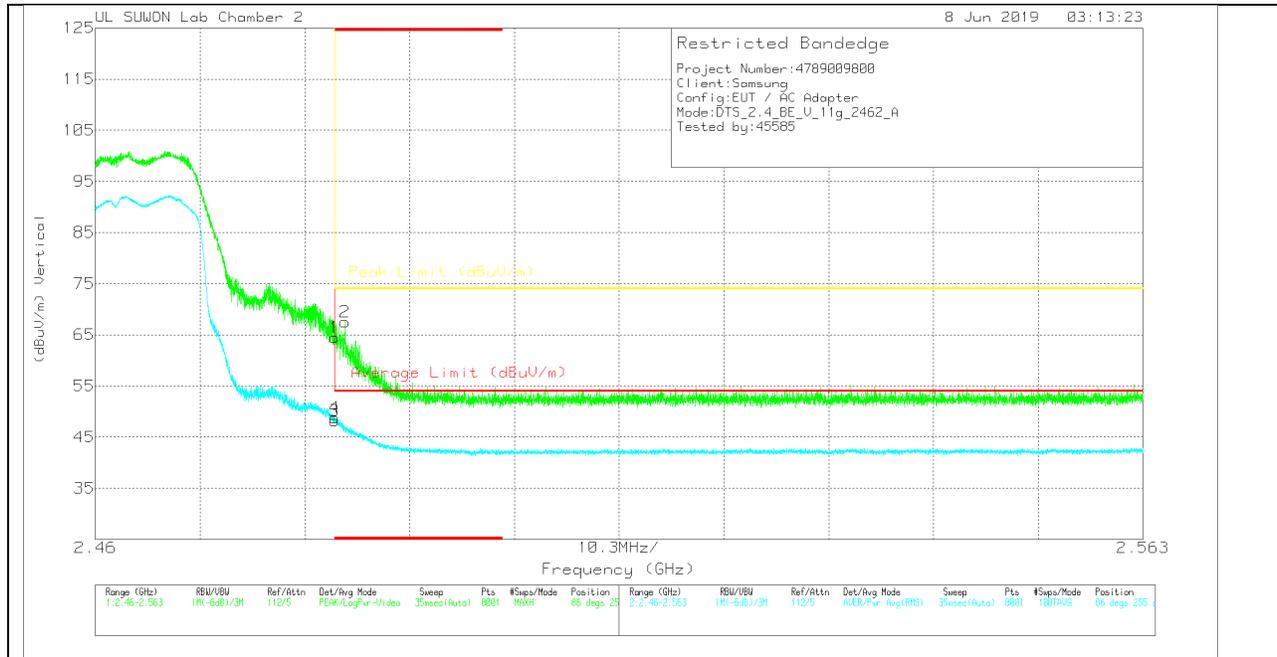
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Deg)	Height (cm)	Polarity
1	* 2.484	50.86	Pk	31.9	-20.6	0	62.16	-	-	74	-11.84	236	152	H
2	* 2.485	55.27	Pk	31.9	-20.6	0	66.57	-	-	74	-7.43	236	152	H
3	* 2.484	37.96	RMS	31.9	-20.6	0	49.26	54	-4.74	-	-	236	152	H
4	* 2.484	37.6	RMS	31.9	-20.6	0	48.9	54	-5.1	-	-	236	152	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(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	* 2.484	53.17	Pk	31.9	-20.6	0	64.47	-	-	74	-9.53	86	255	V
2	* 2.485	56.22	Pk	31.9	-20.6	0	67.52	-	-	74	-6.48	86	255	V
3	* 2.484	36.93	RMS	31.9	-20.6	0	48.23	54	-5.77	-	-	86	255	V
4	* 2.484	37.5	RMS	31.9	-20.6	0	48.8	54	-5.2	-	-	86	255	V

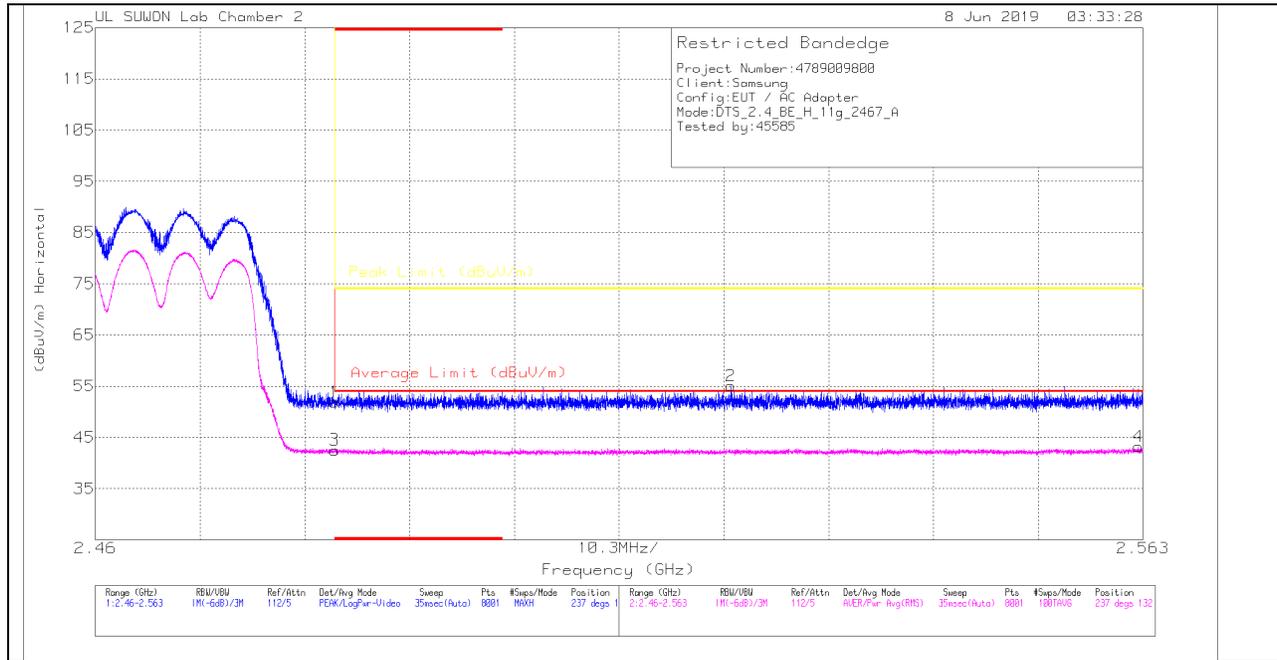
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (12 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

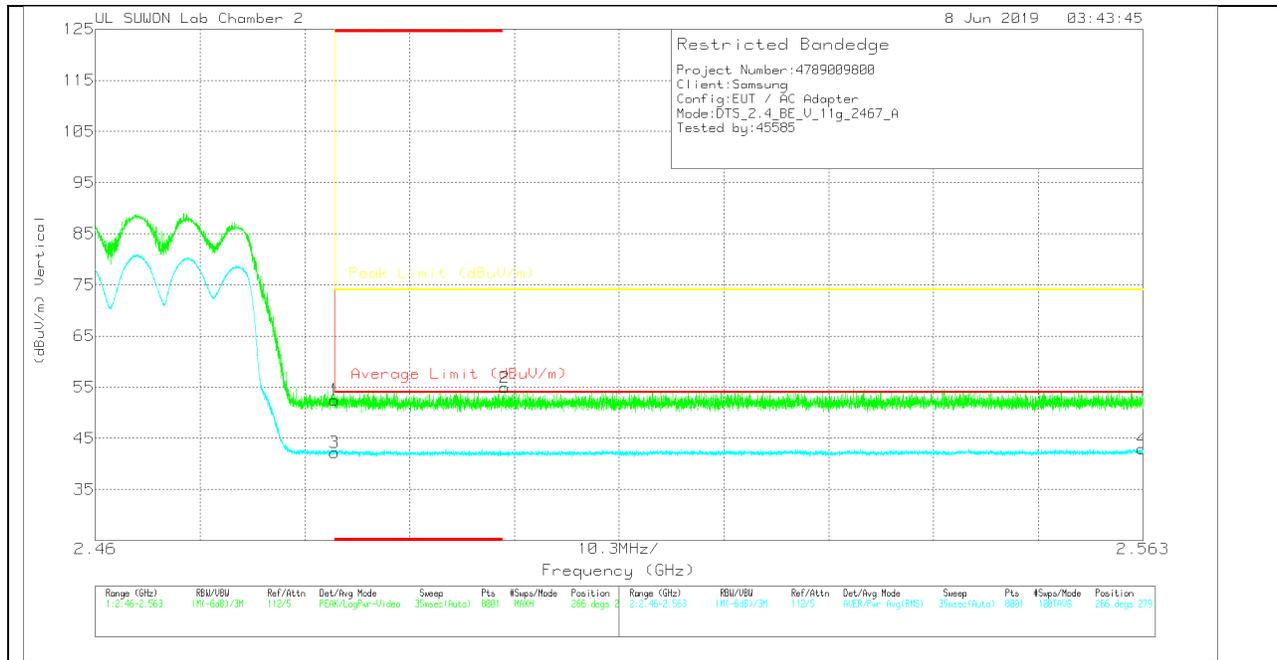
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.56	Pk	31.9	-20.6	0	51.86	-	-	74	-22.14	237	132	H
2	2.522	43.63	Pk	31.9	-20.5	0	55.03	-	-	74	-18.97	237	132	H
3	* 2.484	31.21	RMS	31.9	-20.6	0	42.51	54	-11.49	-	-	237	132	H
4	2.563	31.5	RMS	32	-20.3	0	43.2	54	-10.8	-	-	237	132	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(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	* 2.484	41.22	Pk	31.9	-20.6	0	52.52	-	-	74	-21.48	266	279	V
2	2.5	43.71	PK	31.9	-20.7	0	54.91	-	-	74	-19.09	266	279	V
3	* 2.484	30.93	RMS	31.9	-20.6	0	42.23	54	-11.77	-	-	266	279	V
4	2.563	31.33	RMS	32	-20.4	0	42.93	54	-11.07	-	-	266	279	V

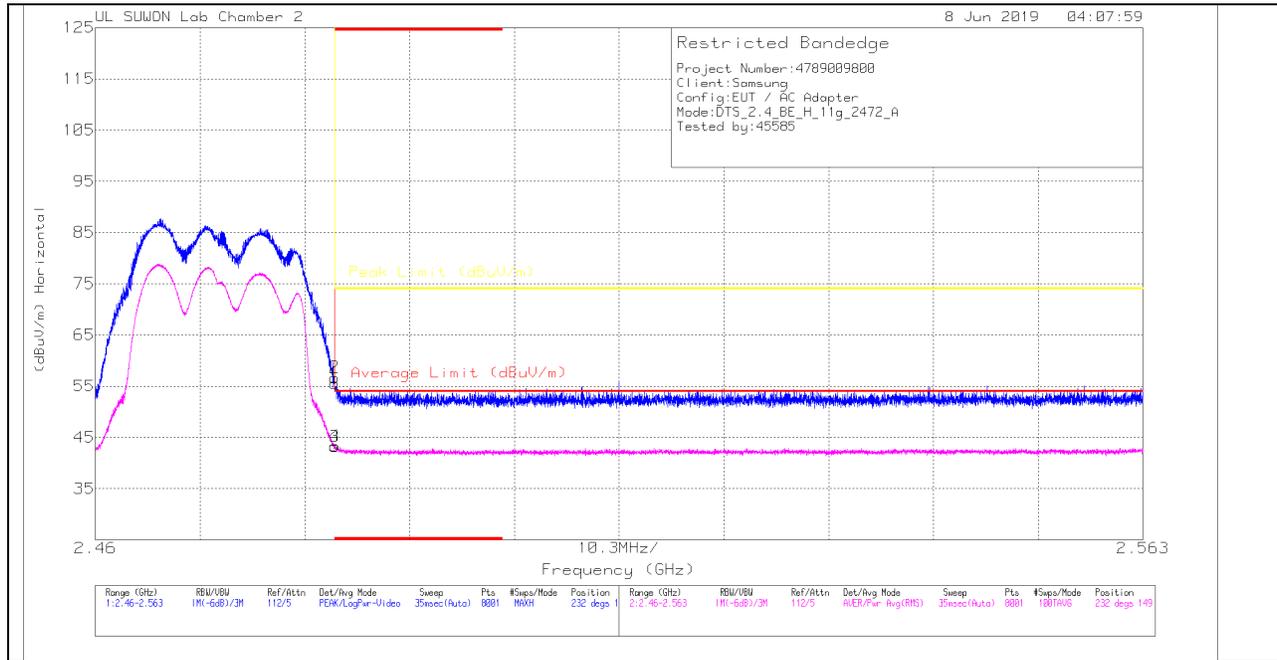
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (13 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

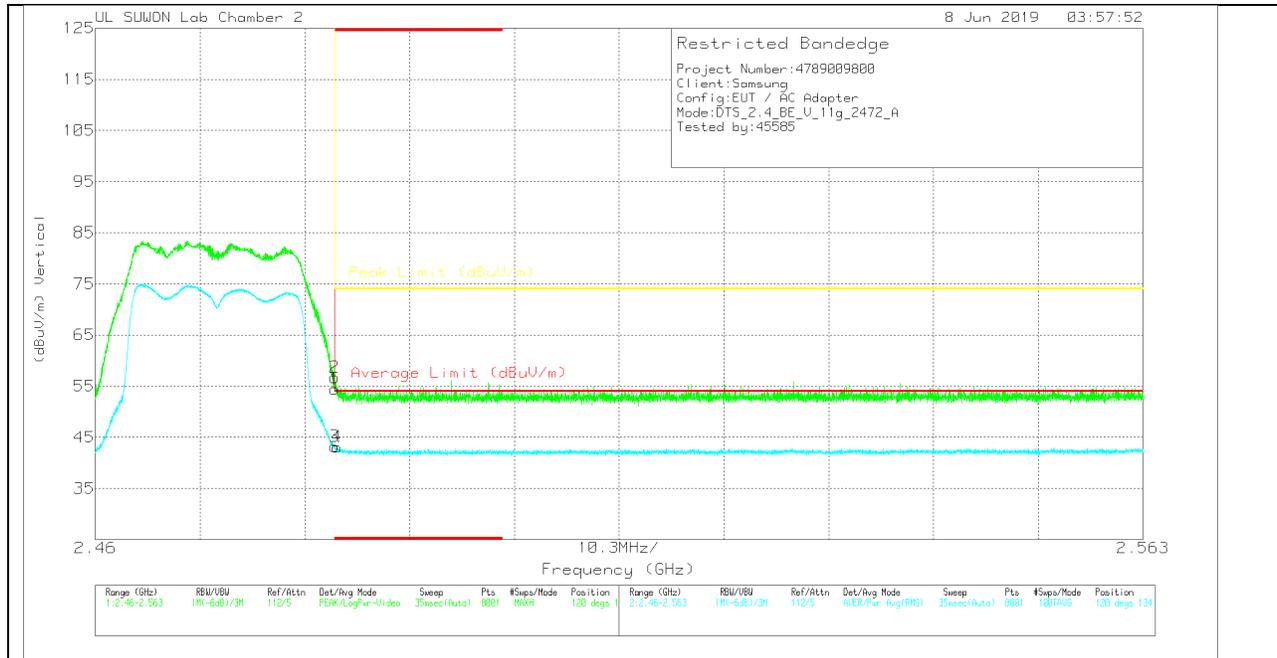
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	44.31	Pk	31.9	-20.6	0	55.61	-	-	74	-18.39	232	149	H
2	* 2.484	45.39	Pk	31.9	-20.6	0	56.69	-	-	74	-17.31	232	149	H
3	* 2.484	31.92	RMS	31.9	-20.6	0	43.22	54	-10.78	-	-	232	149	H
4	* 2.484	32.02	RMS	31.9	-20.6	0	43.32	54	-10.68	-	-	232	149	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(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	* 2.484	43.2	Pk	31.9	-20.6	0	54.5	-	-	74	-19.5	120	134	V
2	* 2.484	45.42	Pk	31.9	-20.6	0	56.72	-	-	74	-17.28	120	134	V
3	* 2.484	31.94	RMS	31.9	-20.6	0	43.24	54	-10.76	-	-	120	134	V
4	* 2.484	31.83	RMS	31.9	-20.6	0	43.13	54	-10.87	-	-	120	134	V

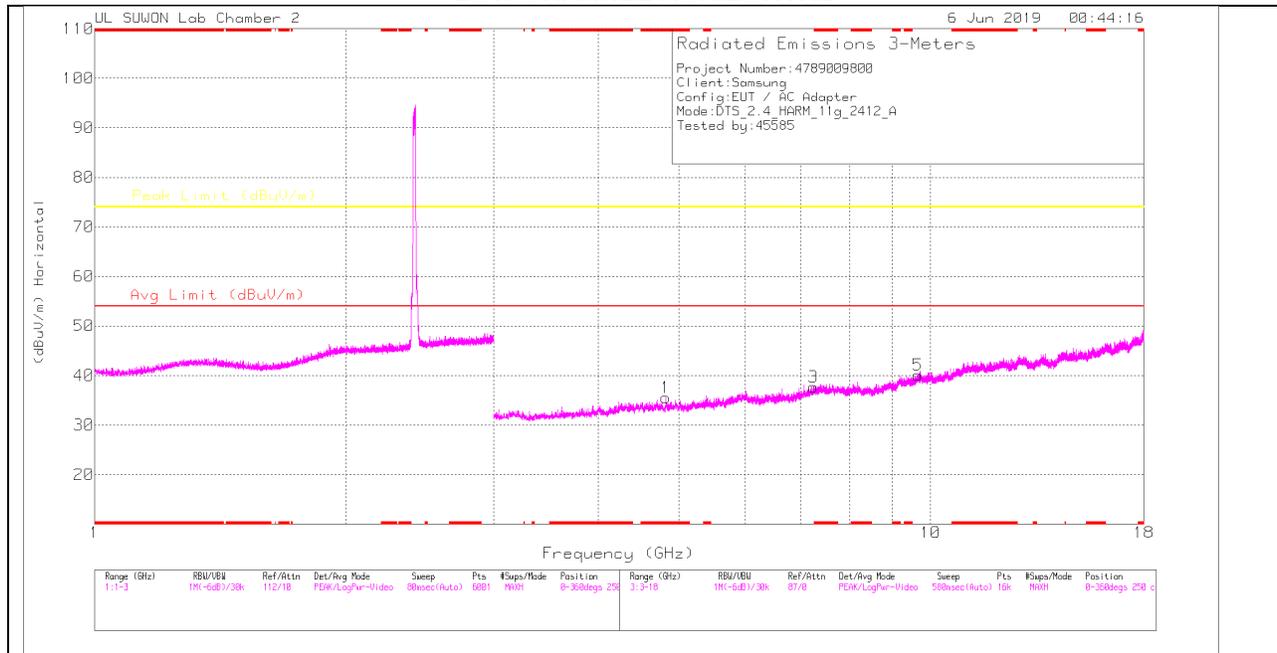
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

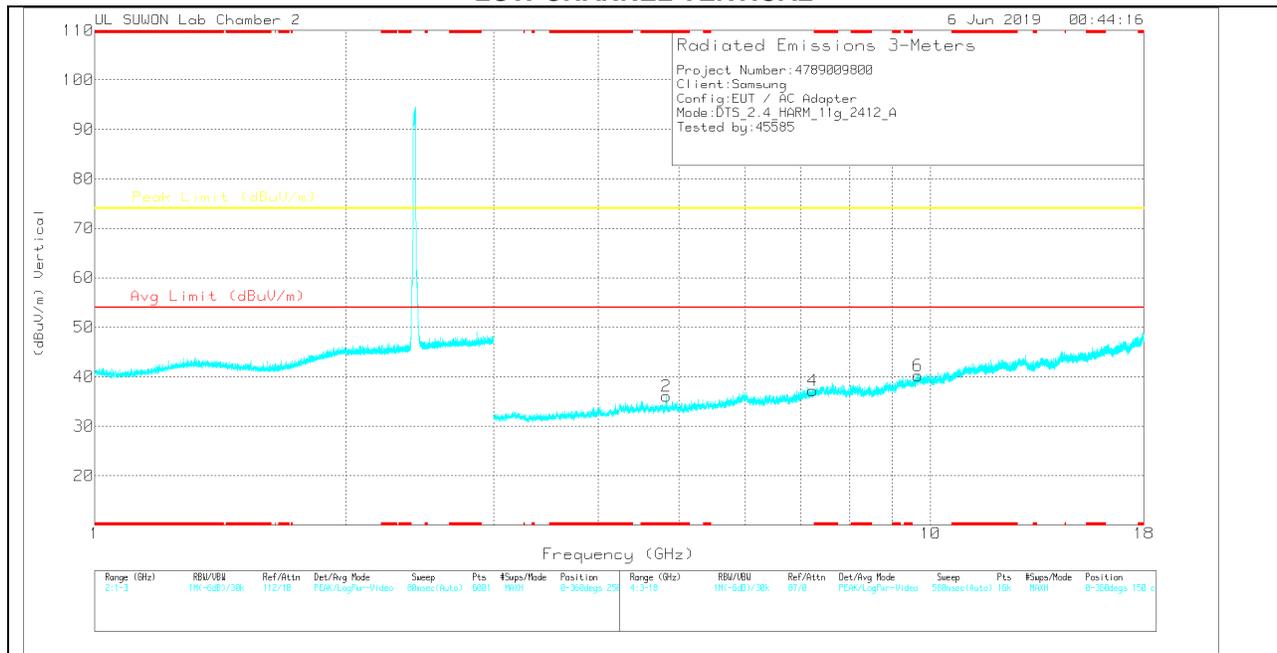
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL 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.

LOW CHANNEL DATA

Trace Markers

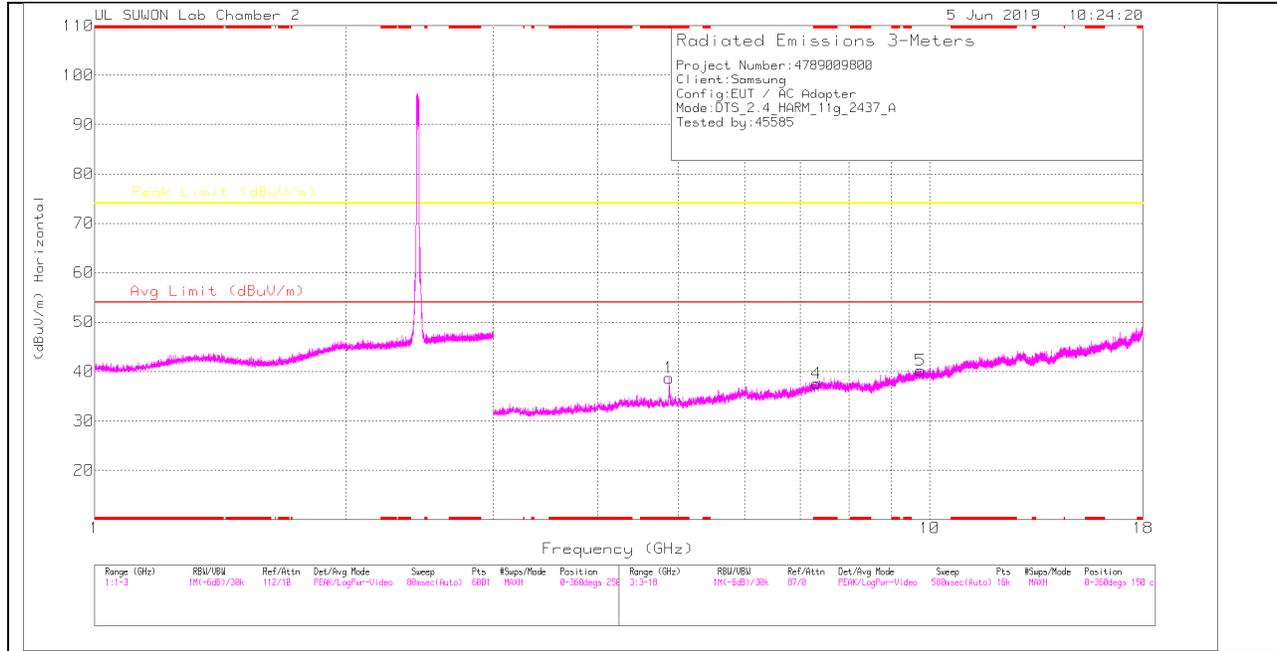
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.82	29.61	PK	34	-28.1	0	35.51	-	-	74	-38.49	0-360	150	H
3	7.245	27.09	PK	36.1	-25.5	0	37.69	-	-	74	-36.31	0-360	150	H
5	9.65	24.66	PK	37.1	-21.6	0	40.16	-	-	74	-33.84	0-360	250	H
2	* 4.828	30.2	PK	34	-28.1	0	36.1	-	-	74	-37.9	0-360	250	V
4	7.234	26.61	PK	36.1	-25.5	0	37.21	-	-	74	-36.79	0-360	150	V
6	9.656	24.67	PK	37.1	-21.5	0	40.27	-	-	74	-33.73	0-360	150	V

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

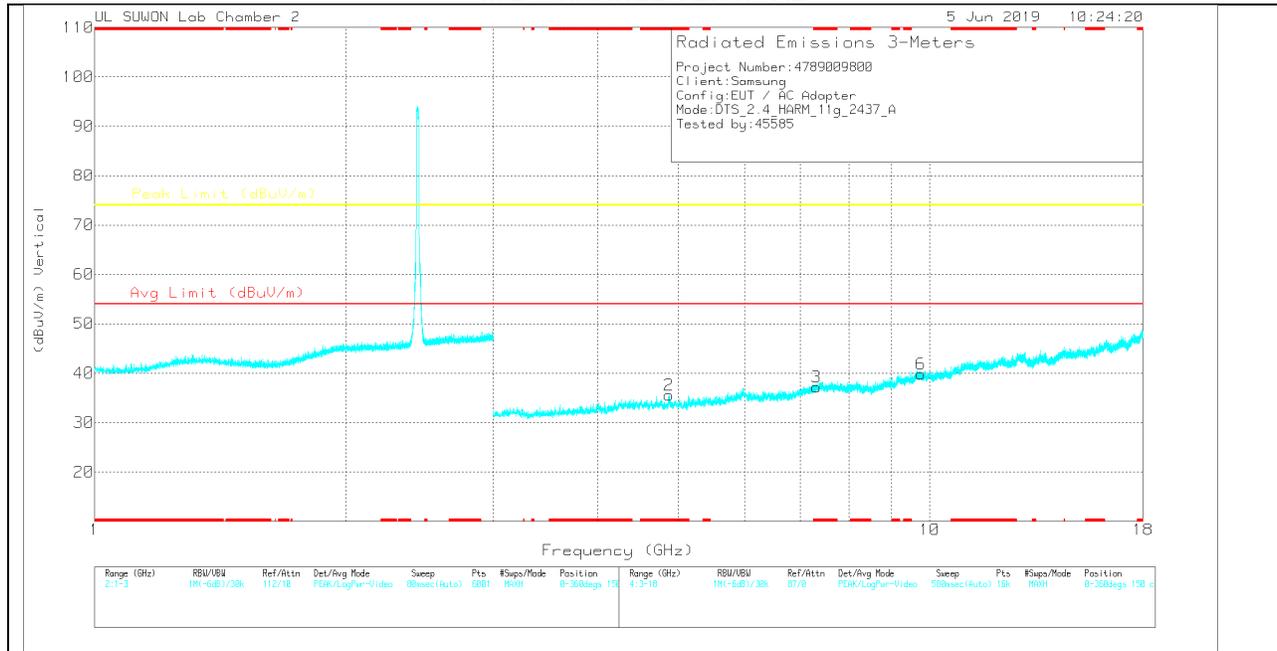
PK – Peak Detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

MID CHANNEL HORIZONTAL



MID CHANNEL 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.

MID CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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
1	* 4.875	32.66	PK	34	-28	0	38.66	-	-	74	-35.34	0-360	250	H
4	* 7.312	26.44	PK	36.2	-25	0	37.64	-	-	74	-36.36	0-360	250	H
5	9.748	24.44	PK	37.2	-21.4	0	40.24	-	-	74	-33.76	0-360	250	H
2	* 4.874	29.55	PK	34	-28	0	35.55	-	-	74	-38.45	0-360	150	V
3	* 7.311	26.06	PK	36.2	-25	0	37.26	-	-	74	-36.74	0-360	150	V
6	9.749	24.05	PK	37.2	-21.4	0	39.85	-	-	74	-34.15	0-360	150	V

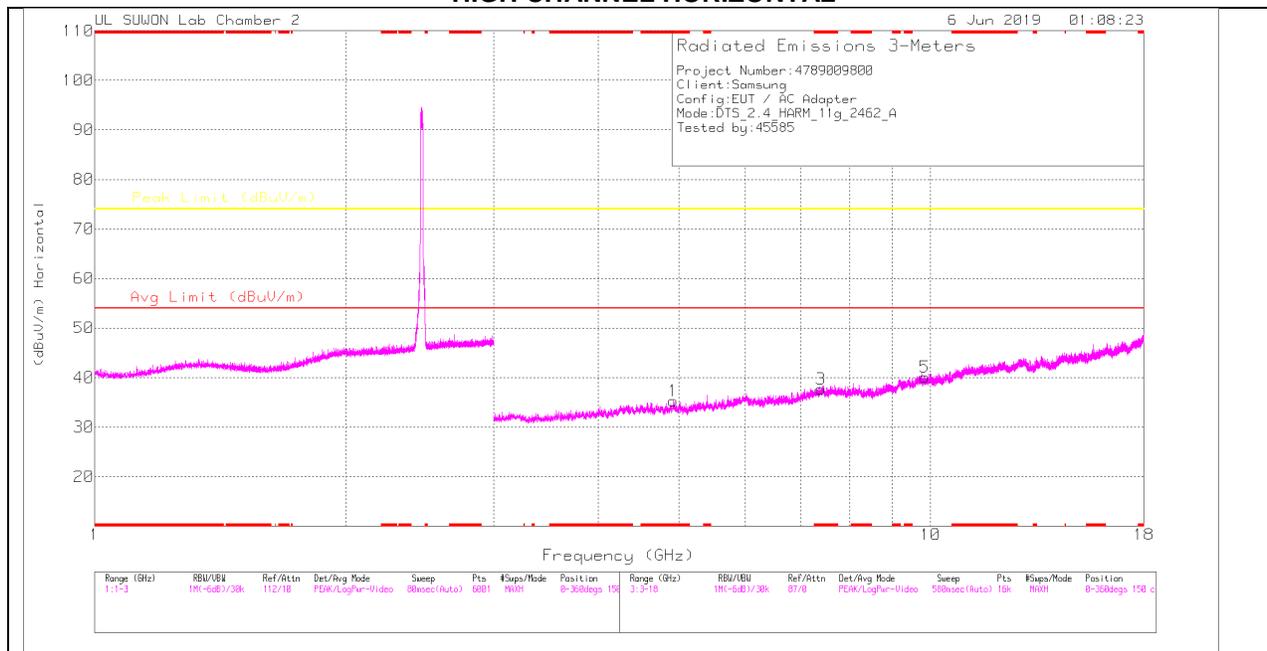
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

Radiated Emissions

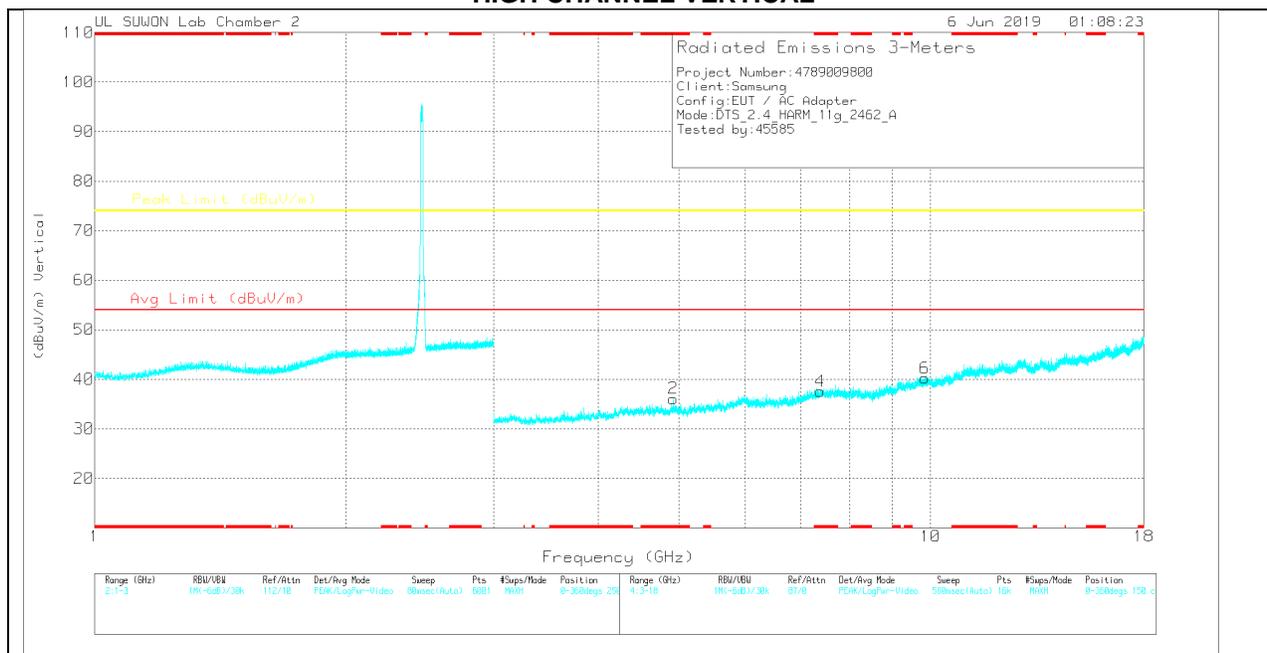
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.88	42.51	PK2	34	-27.9	0	48.61	-	-	74	-25.39	111	269	H
* 4.874	30.51	MAv1	34	-28	0	36.51	54	-17.49	-	-	111	269	H
* 4.873	39.96	PK2	34	-28	0	45.96	-	-	74	-28.04	154	117	V
* 4.874	27.96	MAv1	34	-28	0	33.96	54	-20.04	-	-	154	117	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 HORIZONTAL



HIGH CHANNEL 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.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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
1	* 4.925	28.47	PK	34	-27.2	0	35.27	-	-	74	-38.73	0-360	250	H
3	* 7.396	25.73	PK	36.2	-24.2	0	37.73	-	-	74	-36.27	0-360	150	H
5	9.847	24.56	PK	37.3	-21.8	0	40.06	-	-	74	-33.94	0-360	150	H
2	* 4.925	29.33	PK	34	-27.2	0	36.13	-	-	74	-37.87	0-360	250	V
4	* 7.385	25.71	PK	36.2	-24.3	0	37.61	-	-	74	-36.39	0-360	150	V
6	9.848	24.75	PK	37.3	-21.8	0	40.25	-	-	74	-33.75	0-360	150	V

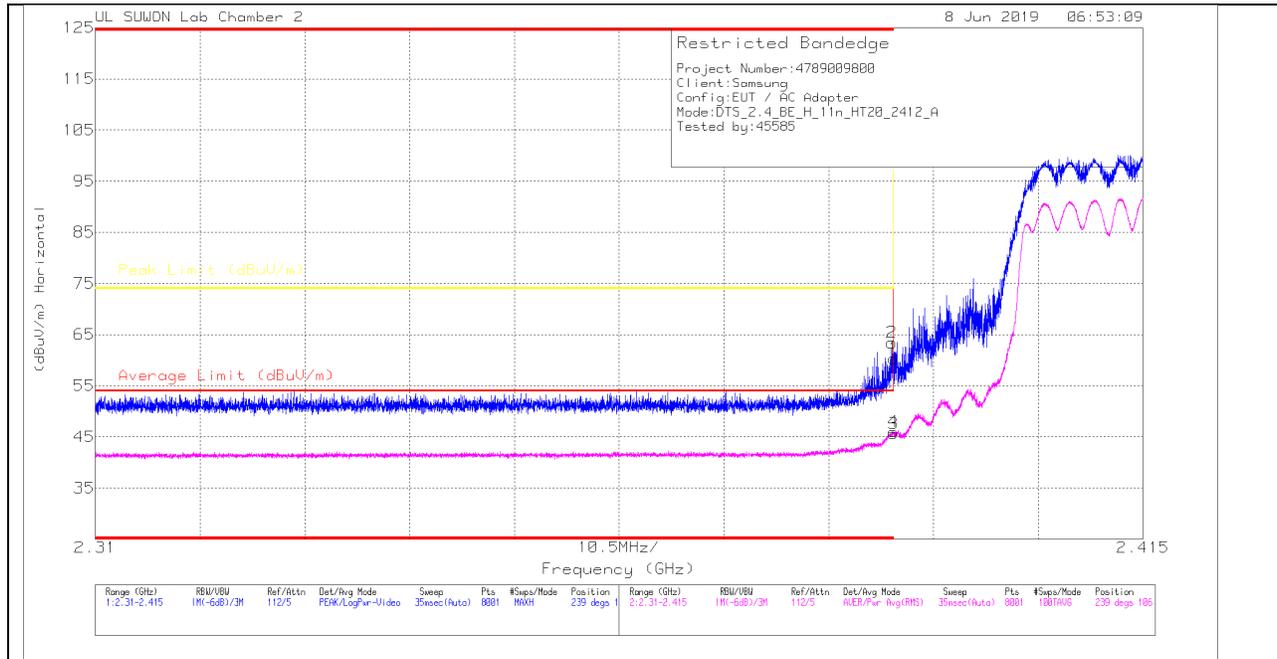
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

11.2.4. TX ABOVE 1GHz 802.11n HT20 2TX CDD MODE IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

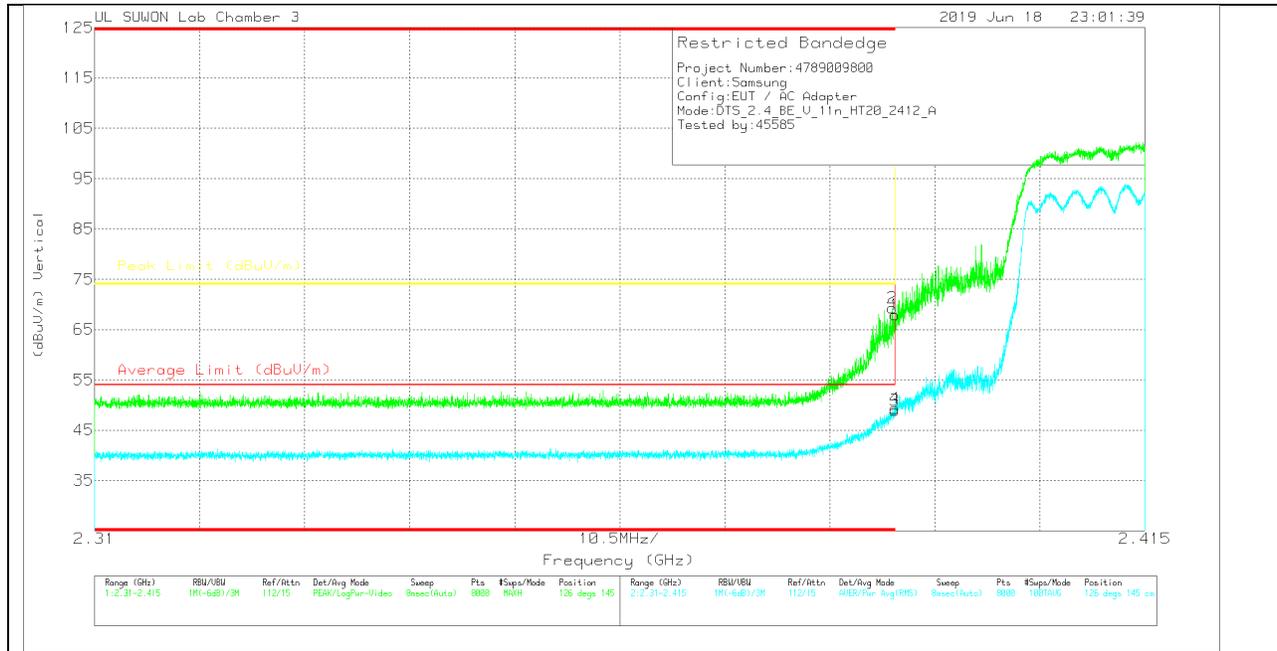
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Deg)	Height (cm)	Polarity
1	* 2.39	49.57	Pk	31.6	-20.8	0	60.37	-	-	74	-13.63	239	106	H
2	* 2.39	52.64	Pk	31.6	-20.8	0	63.44	-	-	74	-10.56	239	106	H
3	* 2.39	34.82	RMS	31.6	-20.8	0	45.62	54	-8.38	-	-	239	106	H
4	* 2.39	35.21	RMS	31.6	-20.8	0	46.01	54	-7.99	-	-	239	106	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00205959	10dB(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	59.67	Pk	31.7	-23.4	0	67.97	-	-	74	-6.03	126	145	V
2	* 2.39	60.98	Pk	31.7	-23.4	0	69.28	-	-	74	-4.72	126	145	V
3	* 2.39	40.66	RMS	31.7	-23.4	0	48.96	54	-5.04	-	-	126	145	V
4	* 2.39	40.99	RMS	31.7	-23.4	0	49.29	54	-4.71	-	-	126	145	V

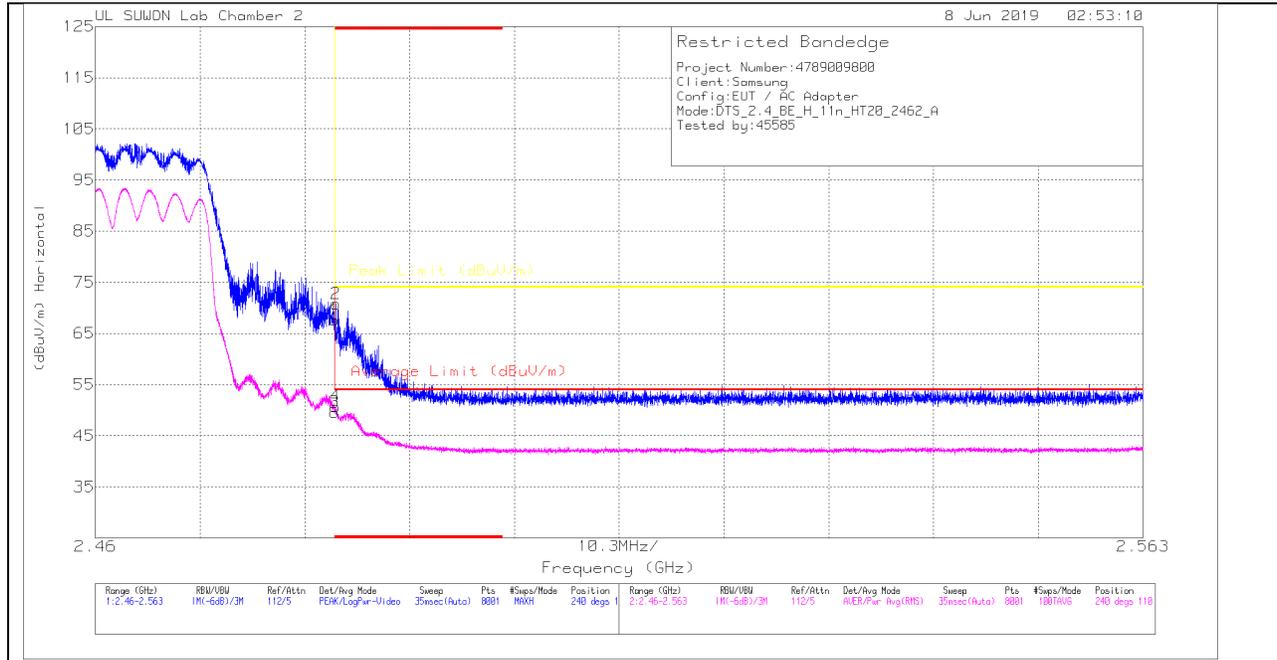
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

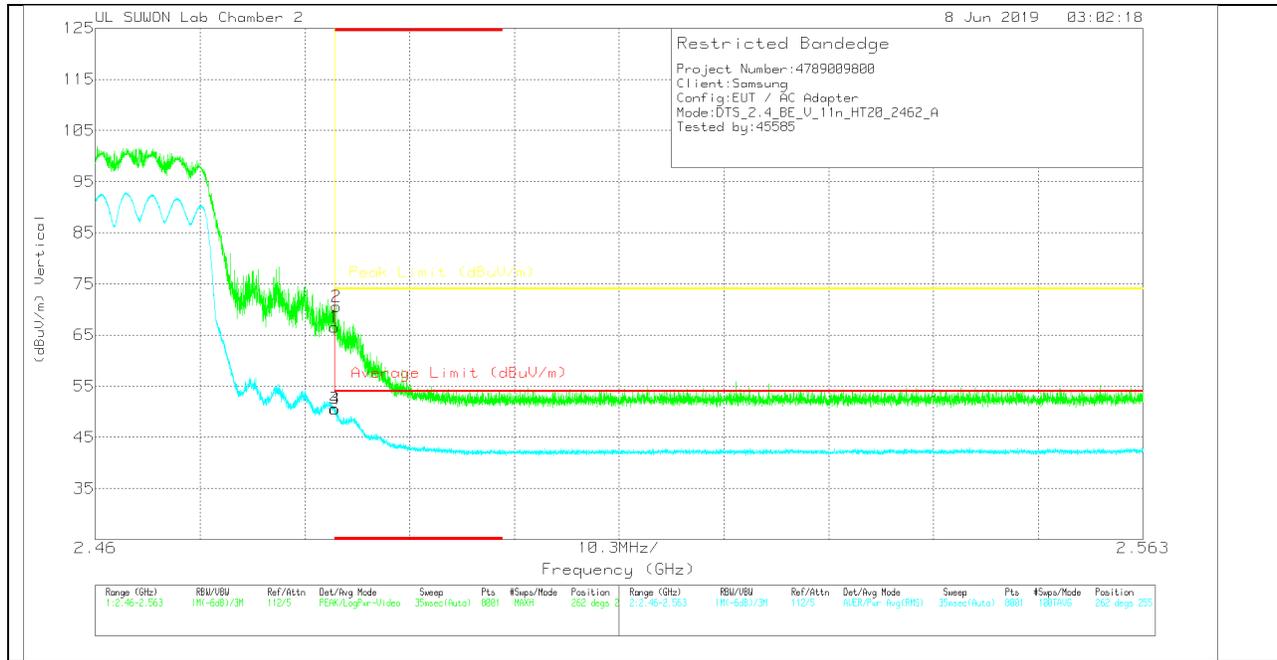
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Deg)	Height (cm)	Polarity
1	* 2.484	56.4	Pk	31.9	-20.6	0	67.7	-	-	74	-6.3	240	110	H
2	* 2.484	59.48	Pk	31.9	-20.6	0	70.78	-	-	74	-3.22	240	110	H
3	* 2.484	38.3	RMS	31.9	-20.6	0	49.6	54	-4.4	-	-	240	110	H
4	* 2.484	39.39	RMS	31.9	-20.6	0	50.69	54	-3.31	-	-	240	110	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(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	* 2.484	55.28	Pk	31.9	-20.6	0	66.58	-	-	74	-7.42	262	255	V
2	* 2.484	59.25	Pk	31.9	-20.6	0	70.55	-	-	74	-3.45	262	255	V
3	* 2.484	39.31	RMS	31.9	-20.6	0	50.61	54	-3.39	-	-	262	255	V
4	* 2.484	39.21	RMS	31.9	-20.6	0	50.51	54	-3.49	-	-	262	255	V

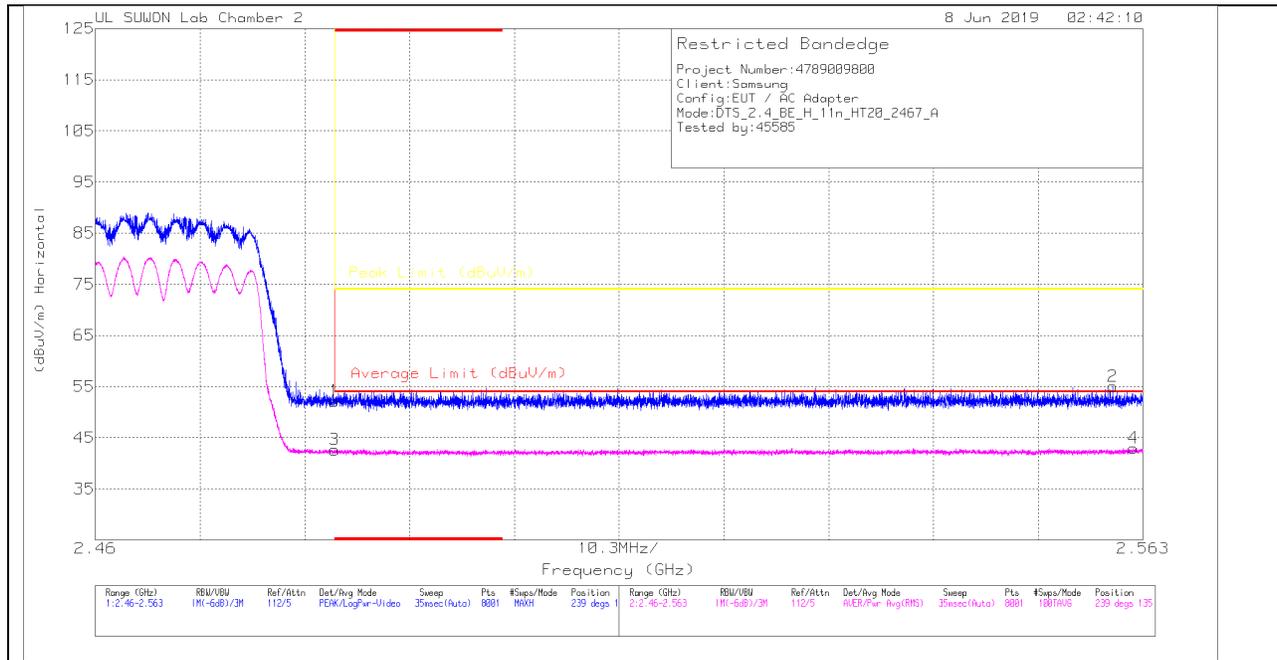
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (12 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

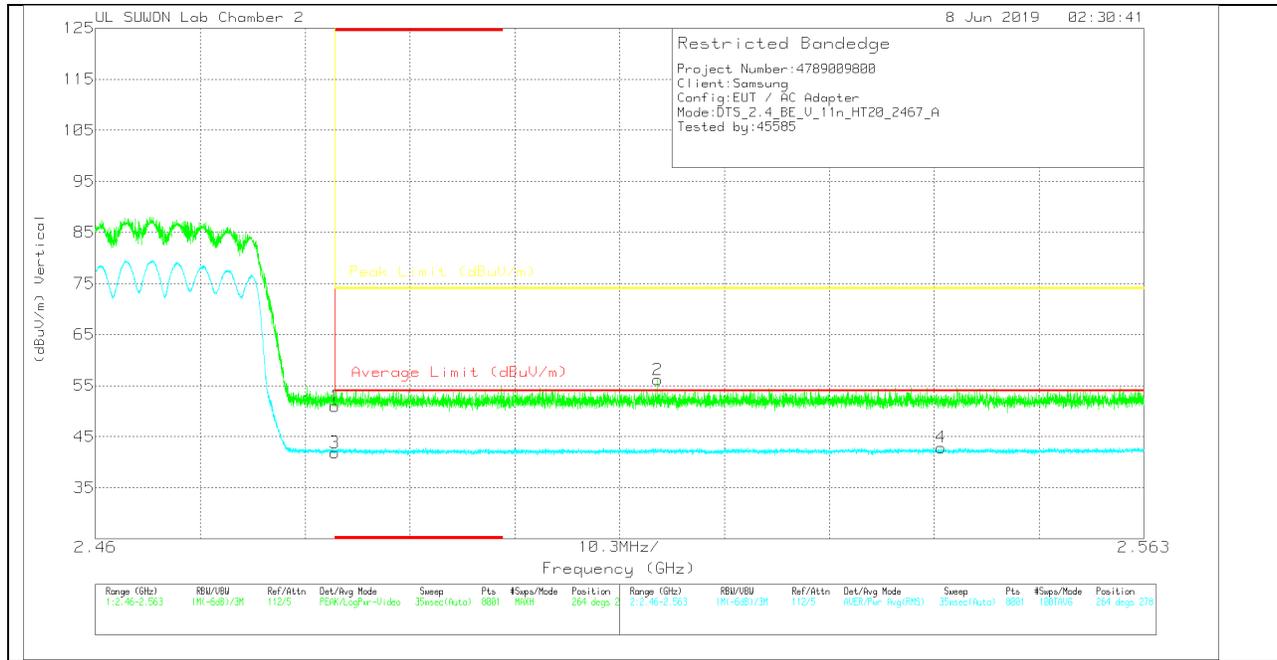
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.484	40.86	Pk	31.9	-20.6	0	52.16	-	-	74	-21.84	239	135	H
2	2.56	43.54	Pk	32	-20.5	0	55.04	-	-	74	-18.96	239	135	H
3	* 2.484	31.37	RMS	31.9	-20.6	0	42.67	54	-11.33	-	-	239	135	H
4	2.562	31.3	RMS	32	-20.3	0	43	54	-11	-	-	239	135	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

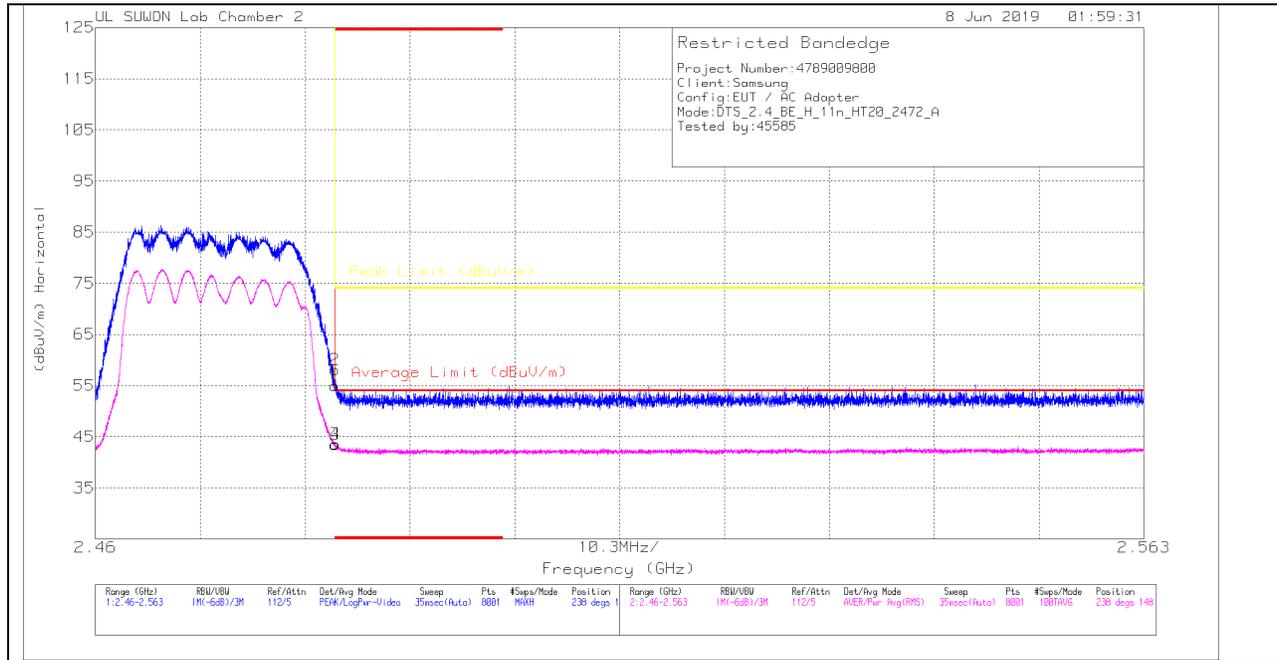
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(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	* 2.484	39.67	Pk	31.9	-20.6	0	50.97	-	-	74	-23.03	264	278	V
2	2.515	44.78	Pk	31.9	-20.5	0	56.18	-	-	74	-17.82	264	278	V
3	* 2.484	30.59	RMS	31.9	-20.6	0	41.89	54	-12.11	-	-	264	278	V
4	2.543	31.4	RMS	32	-20.5	0	42.9	54	-11.1	-	-	264	278	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

AUTHORIZED BANDEDGE (13 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

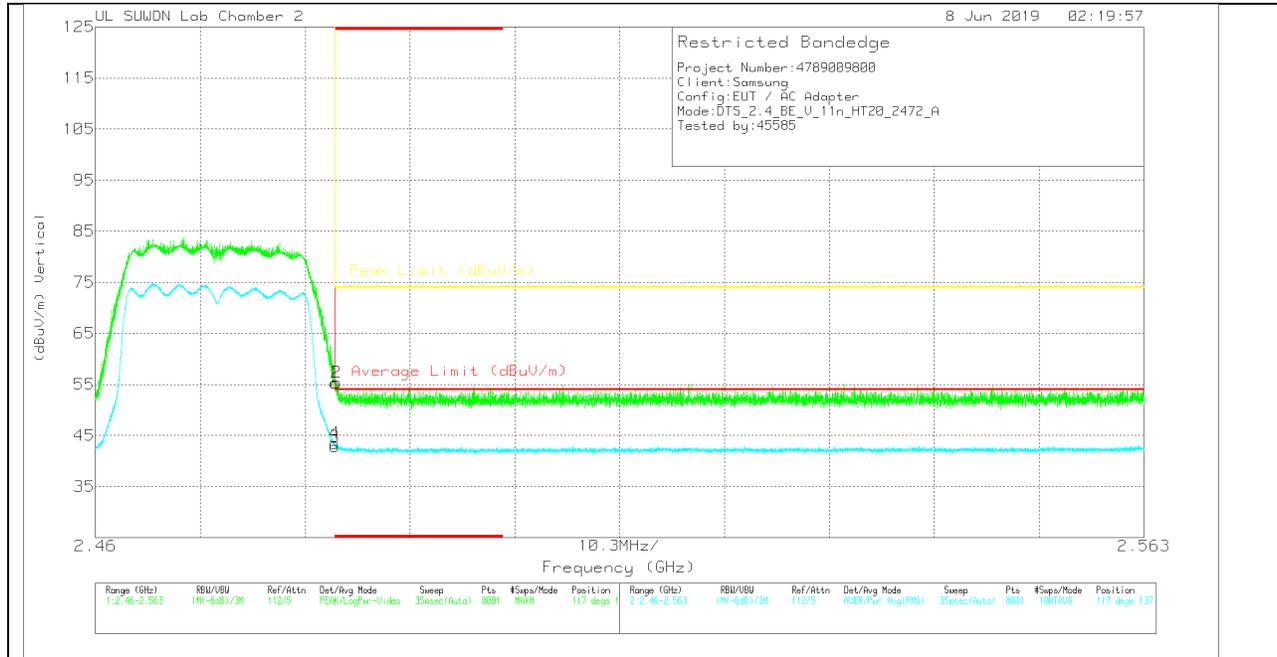
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	43.6	Pk	31.9	-20.6	54.9	-	-	74	-19.1	238	148	H
2	* 2.484	46.8	Pk	31.9	-20.6	58.1	-	-	74	-15.9	238	148	H
3	* 2.484	32.18	RMS	31.9	-20.6	43.48	54	-10.52	-	-	238	148	H
4	* 2.484	32.3	RMS	31.9	-20.6	43.6	54	-10.4	-	-	238	148	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB(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	* 2.484	44.01	Pk	31.9	-20.6	0	55.31	-	-	74	-18.69	117	137	V
2	* 2.484	44.07	Pk	31.9	-20.6	0	55.37	-	-	74	-18.63	117	137	V
3	* 2.484	31.52	RMS	31.9	-20.6	0	42.82	54	-11.18	-	-	117	137	V
4	* 2.484	32.18	RMS	31.9	-20.6	0	43.48	54	-10.52	-	-	117	137	V

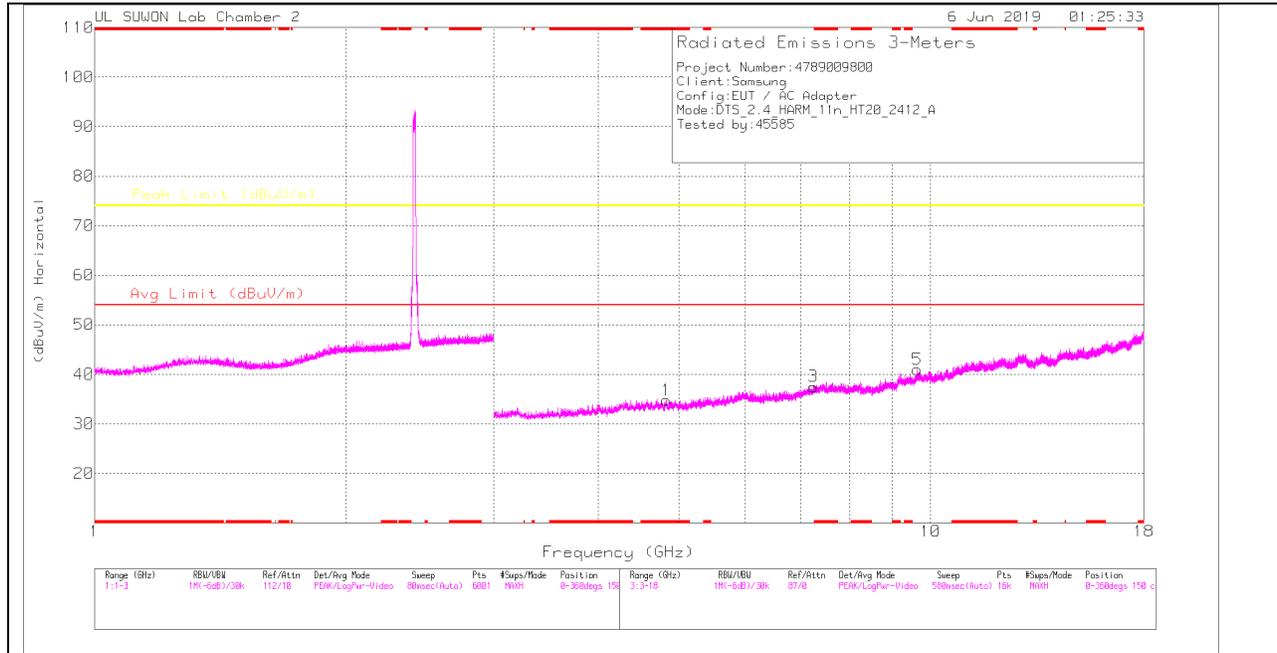
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

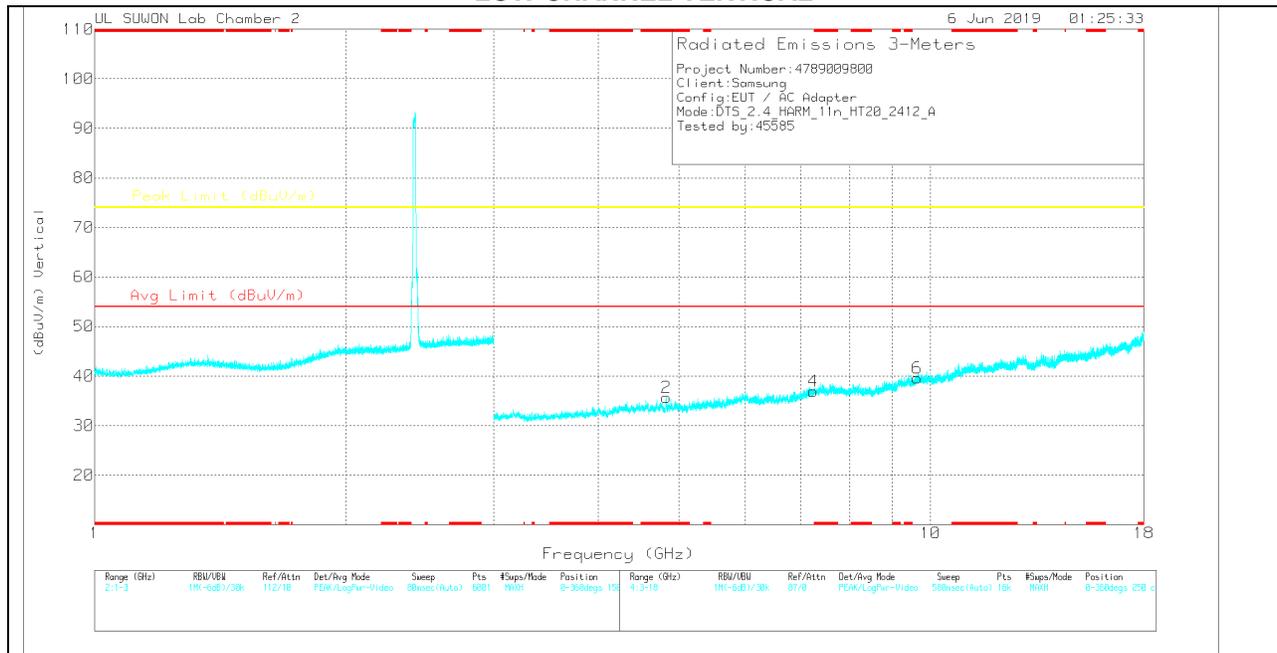
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL 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.

LOW CHANNEL DATA

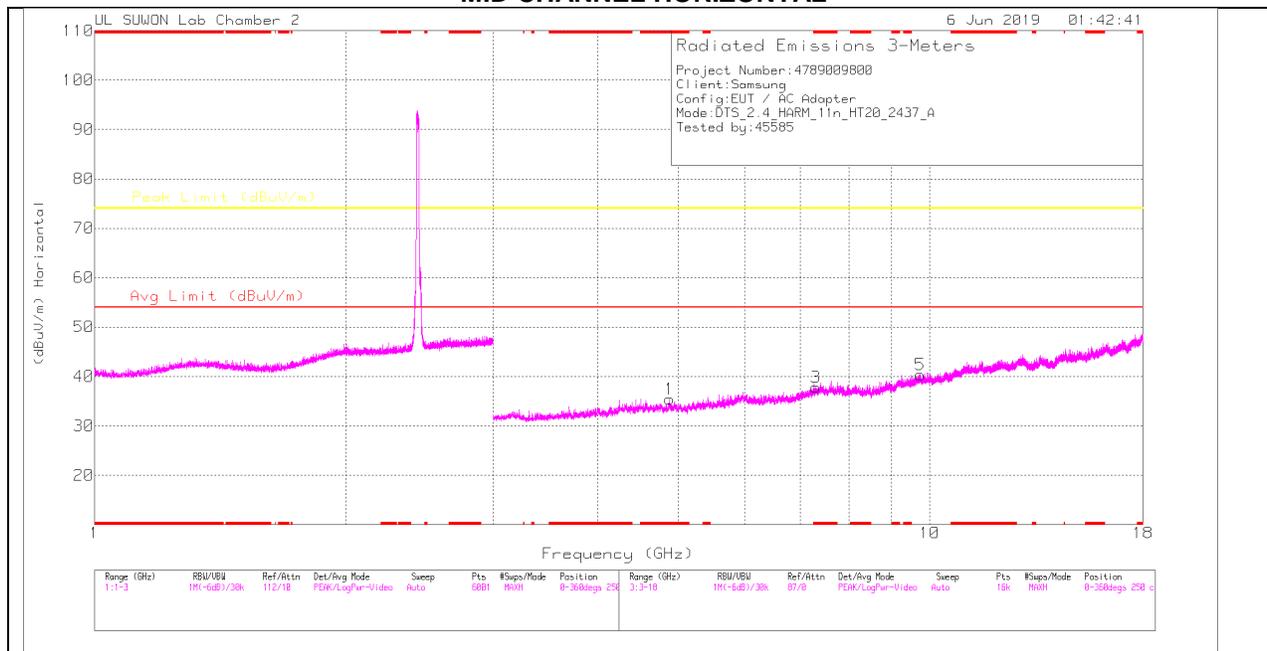
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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
1	* 4.832	29.13	PK	34	-28.3	0	34.83	-	-	74	-39.17	0-360	150	H
3	7.241	26.92	PK	36.1	-25.5	0	37.52	-	-	74	-36.48	0-360	250	H
5	9.646	25.66	PK	37	-21.7	0	40.96	-	-	74	-33.04	0-360	150	H
2	* 4.829	29.75	PK	34	-28.1	0	35.65	-	-	74	-38.35	0-360	250	V
4	7.238	26.37	PK	36.1	-25.5	0	36.97	-	-	74	-37.03	0-360	250	V
6	9.643	24.32	PK	37	-21.7	0	39.62	-	-	74	-34.38	0-360	250	V

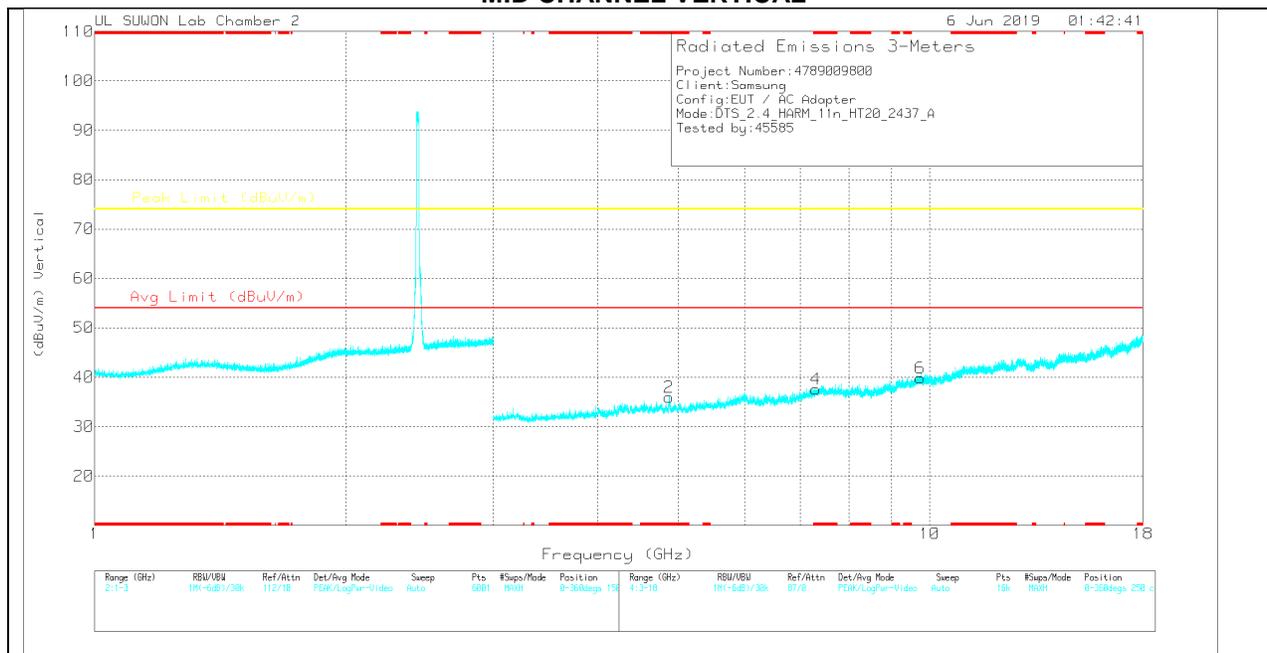
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

MID CHANNEL HORIZONTAL



MID CHANNEL 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.

MID CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	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
1	* 4.88	29.29	PK	34	-27.9	0	35.39	-	-	74	-38.61	0-360	150	H
3	* 7.304	26.69	PK	36.2	-25.1	0	37.79	-	-	74	-36.21	0-360	250	H
5	9.74	24.54	PK	37.2	-21.4	0	40.34	-	-	74	-33.66	0-360	150	H
2	* 4.873	29.99	PK	34	-28	0	35.99	-	-	74	-38.01	0-360	150	V
4	* 7.308	26.33	PK	36.2	-25	0	37.53	-	-	74	-36.47	0-360	250	V
6	9.738	23.94	PK	37.2	-21.3	0	39.84	-	-	74	-34.16	0-360	150	V

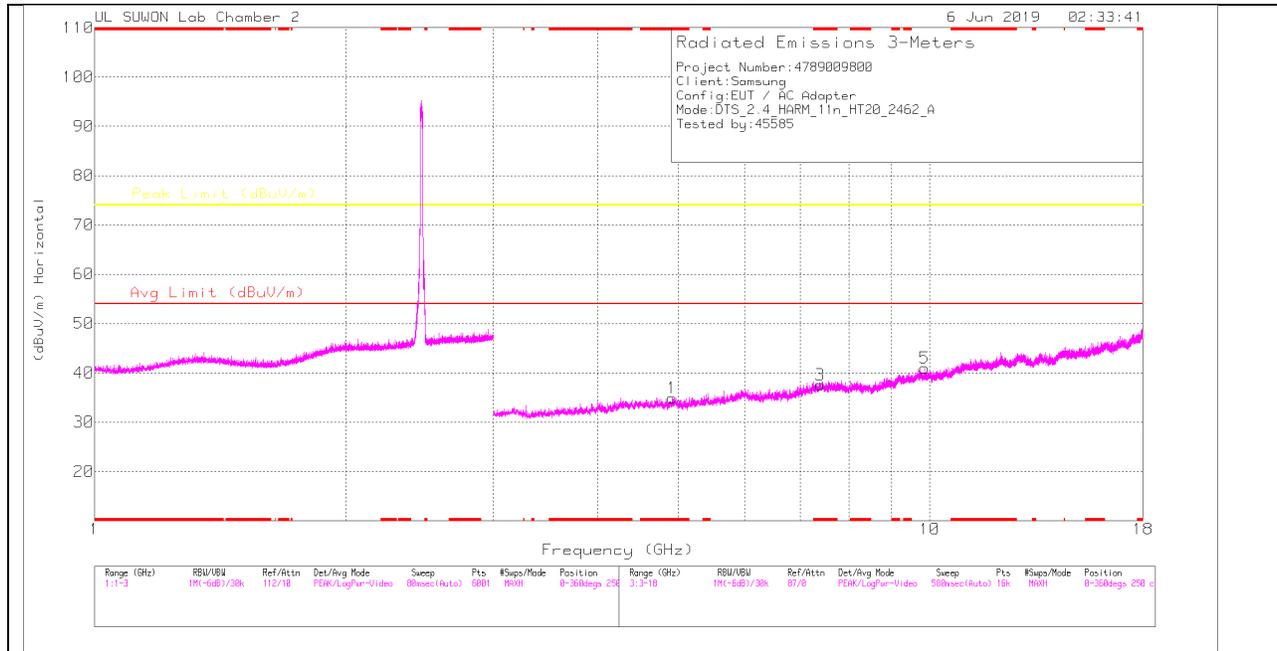
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

Radiated Emissions

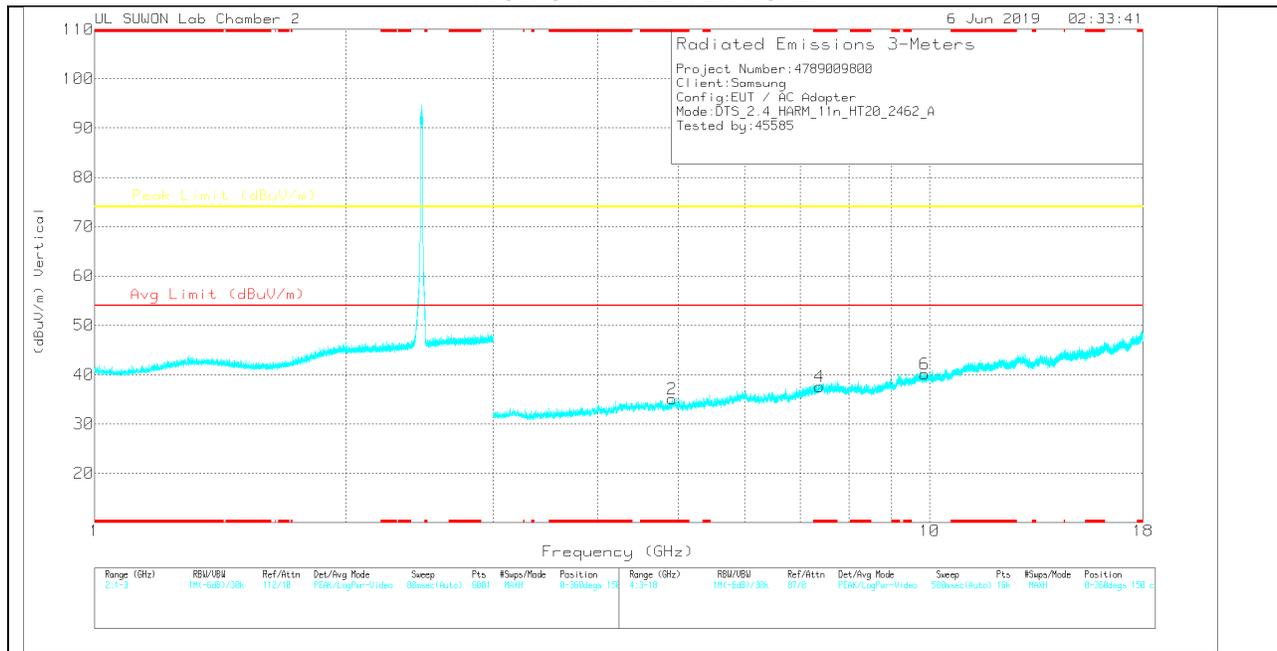
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 7.299	35.5	PK2	36.2	-25.1	0	46.6	-	-	74	-27.4	153	100	H
* 7.307	23.39	MAv1	36.2	-25.1	0	34.49	54	-19.51	-	-	153	100	H
* 7.308	34.97	PK2	36.2	-25.1	0	46.07	-	-	74	-27.93	136	171	V
* 7.309	23.38	MAv1	36.2	-25.1	0	34.48	54	-19.52	-	-	136	171	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 HORIZONTAL



HIGH CHANNEL 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.

HIGH CHANNEL DATA

Trace Markers

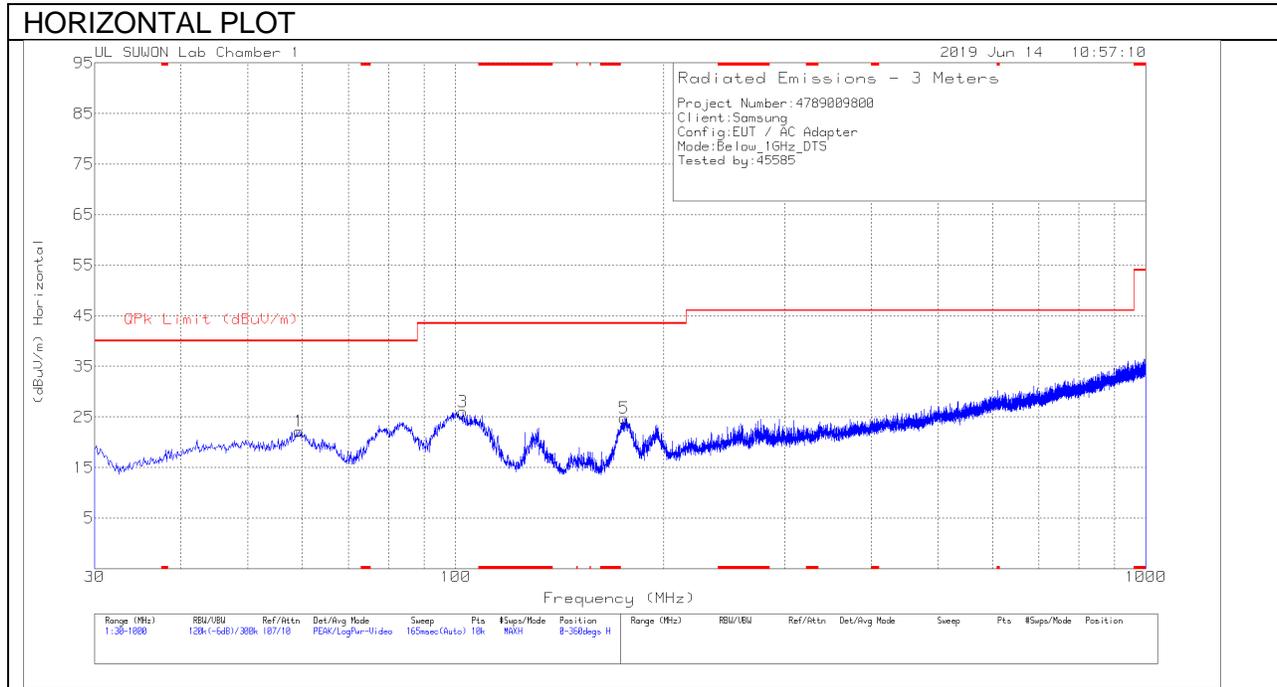
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.914	28.34	PK	34	-27.4	0	34.94	-	-	74	-39.06	0-360	150	H
3	* 7.387	25.61	PK	36.2	-24.2	0	37.61	-	-	74	-36.39	0-360	250	H
5	9.852	25.24	PK	37.4	-21.7	0	40.94	-	-	74	-33.06	0-360	150	H
2	* 4.913	28.43	PK	34	-27.4	0	35.03	-	-	74	-38.97	0-360	250	V
4	* 7.384	25.74	PK	36.2	-24.3	0	37.64	-	-	74	-36.36	0-360	250	V
6	9.852	24.38	PK	37.4	-21.7	0	40.08	-	-	74	-33.92	0-360	250	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 PK – Peak Detector

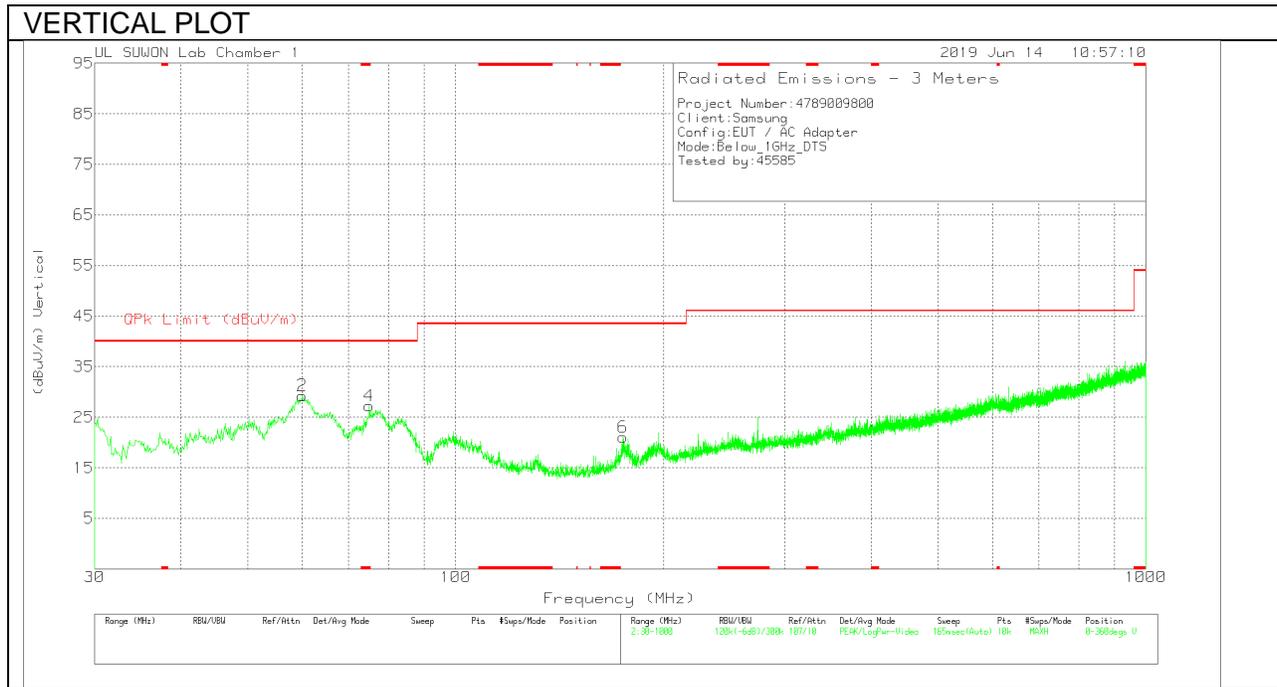
Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

11.3. WORST-CASE BELOW 1 GHz

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



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



Below 1G Data

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	59.294	33.74	Pk	18.7	-30.3	22.14	40	-17.86	0-360	400	H
3	102.556	37.75	Pk	17.9	-29.6	26.05	43.52	-17.47	0-360	300	H
5	175.403	38.47	Pk	15.1	-28.8	24.77	43.52	-18.75	0-360	100	H
2	59.973	41.09	Pk	18.5	-30.3	29.29	40	-10.71	0-360	100	V
4	* 75.008	43.85	Pk	13.5	-30.1	27.25	40	-12.75	0-360	100	V
6	174.724	34.88	Pk	15	-28.8	21.08	43.52	-22.44	0-360	100	V

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

Pk - Peak detector

12. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)
IC RSS-GEN Clause 8.8

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

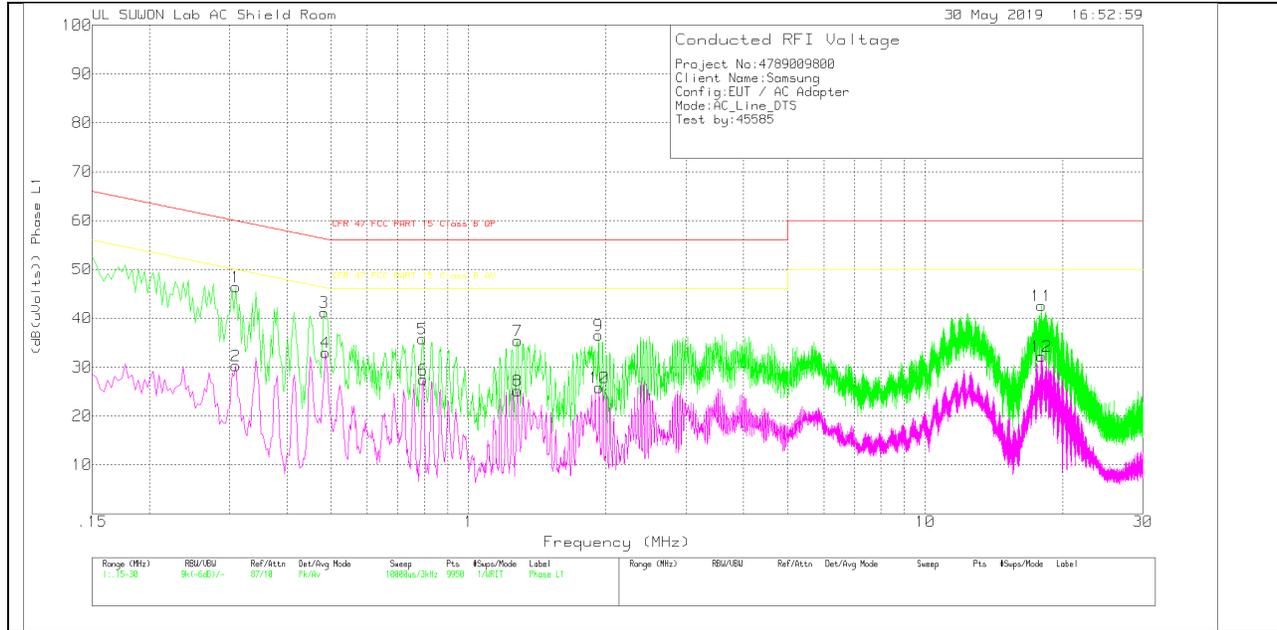
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

WORST EMISSIONS

LINE 1 PLOT



LINE 1 RESULTS

Trace Markers

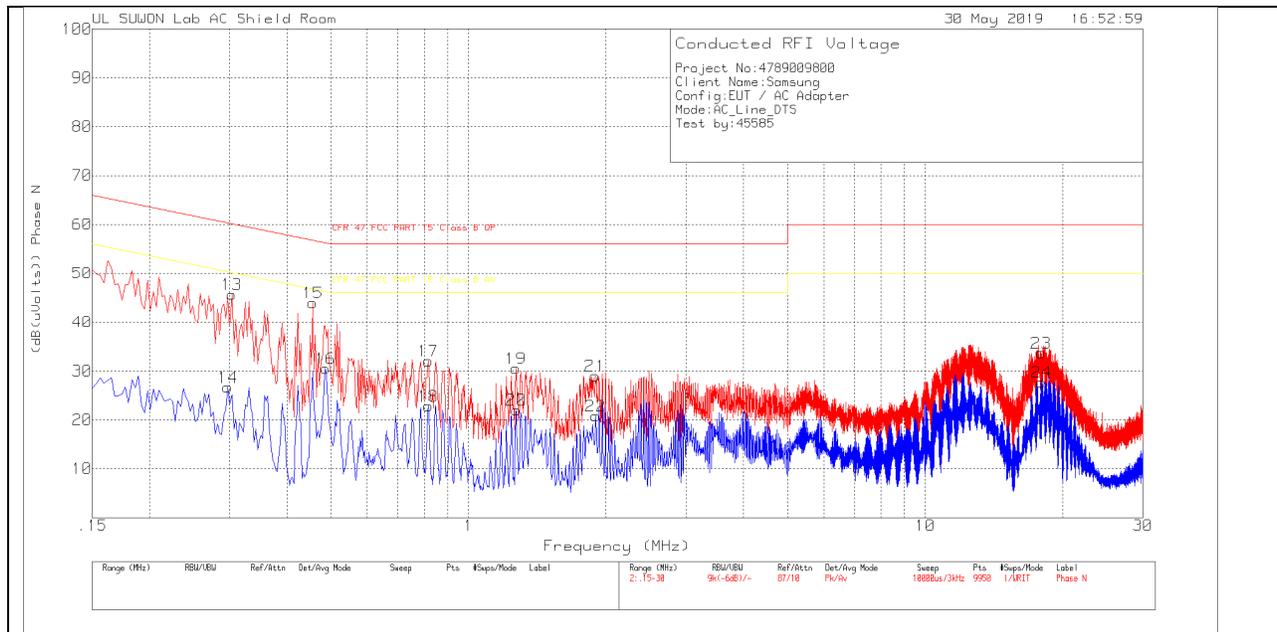
Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_10183 6_With ex-cord_L1	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
1	.309	36.43	Pk	9.8	.2	46.43	60	-13.57	-	-
2	.309	20.28	Av	9.8	.2	30.28	-	-	50	-19.72
3	.483	31.12	Pk	9.9	.2	41.22	56.29	-15.07	-	-
4	.486	22.88	Av	9.9	.2	32.98	-	-	46.24	-13.26
5	.792	25.66	Pk	9.9	.2	35.76	56	-20.24	-	-
6	.795	17.31	Av	9.9	.2	27.41	-	-	46	-18.59
7	1.281	25.32	Pk	9.8	.3	35.42	56	-20.58	-	-
8	1.281	15.07	Av	9.8	.3	25.17	-	-	46	-20.83
9	1.926	26.41	Pk	9.8	.3	36.51	56	-19.49	-	-
10	1.932	15.68	Av	9.8	.3	25.78	-	-	46	-20.22
11	17.973	31.75	Pk	10.4	.4	42.55	60	-17.45	-	-
12	17.973	21.37	Av	10.4	.4	32.17	-	-	50	-17.83

Pk - Peak detector

Av - Average detection

LINE 2 PLOT



LINE 2 RESULTS

Trace Markers

Range 2: Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	ENV216_10183 6_With ex-cord_N	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
13	.303	35.77	Pk	9.7	.2	45.67	60.16	-14.49	-	-
14	.297	16.76	Av	9.7	.2	26.66	-	-	50.33	-23.67
15	.456	34.26	Pk	9.5	.2	43.96	56.77	-12.81	-	-
16	.486	20.53	Av	9.8	.2	30.53	-	-	46.24	-15.71
17	.816	22.1	Pk	9.8	.2	32.1	56	-23.9	-	-
18	.816	12.82	Av	9.8	.2	22.82	-	-	46	-23.18
19	1.269	20.45	Pk	9.8	.3	30.55	56	-25.45	-	-
20	1.272	11.92	Av	9.8	.3	22.02	-	-	46	-23.98
21	1.893	19.03	Pk	9.7	.3	29.03	56	-26.97	-	-
22	1.899	10.79	Av	9.7	.3	20.79	-	-	46	-25.21
23	17.943	22.9	Pk	10.4	.4	33.7	60	-26.3	-	-
24	17.979	16.92	Av	10.4	.4	27.72	-	-	50	-22.28

Pk - Peak detector

Av - Average detection