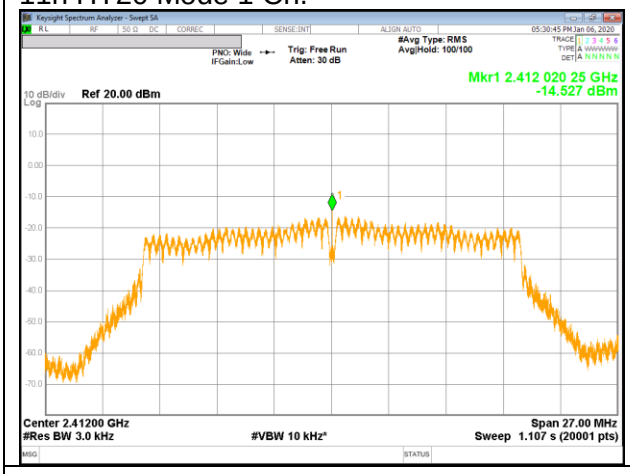
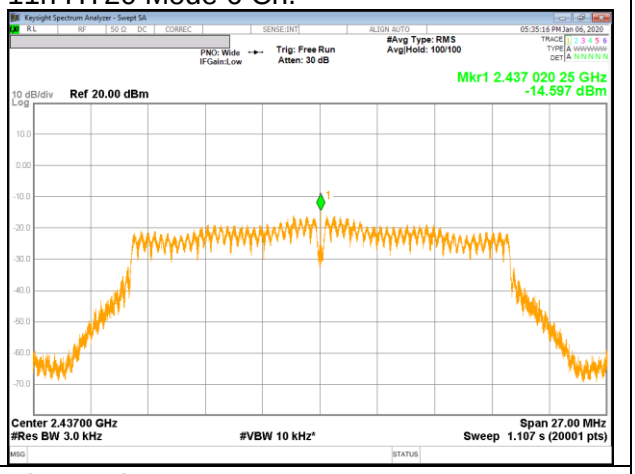
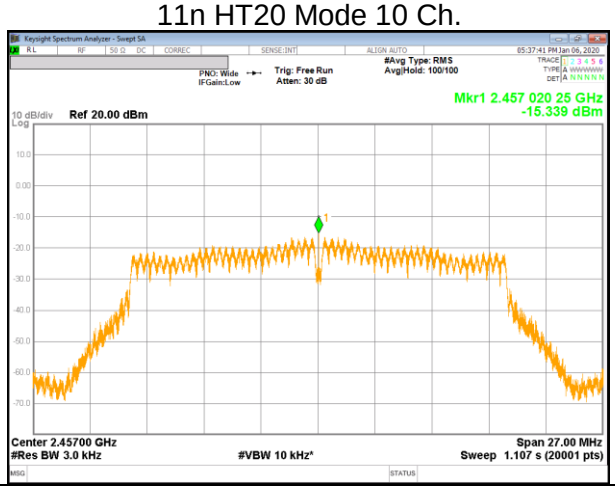
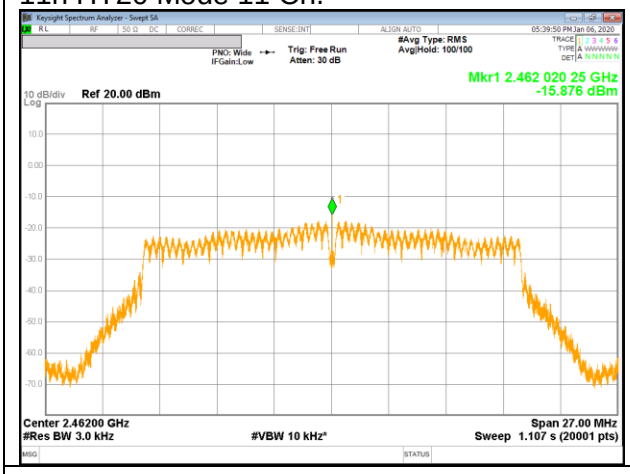
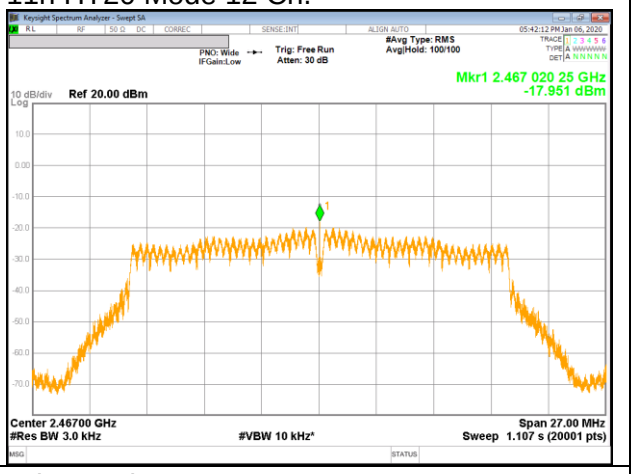
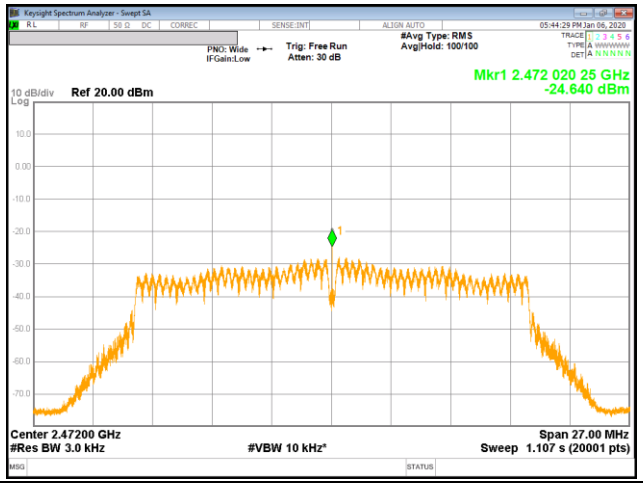
1TX_ANT 1	
11n HT20 Mode 1 Ch.	11n HT20 Mode 6 Ch.
	
11n HT20 Mode 10 Ch.	
	

1TX_ANT 1	
11n HT20 Mode 11 Ch.	11n HT20 Mode 12 Ch.
	
11n HT20 Mode 13 Ch.	
	

10.4. OUT-OF-BAND EMISSIONS

LIMITS

FCC §15.247 (d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

TEST PROCEDURE

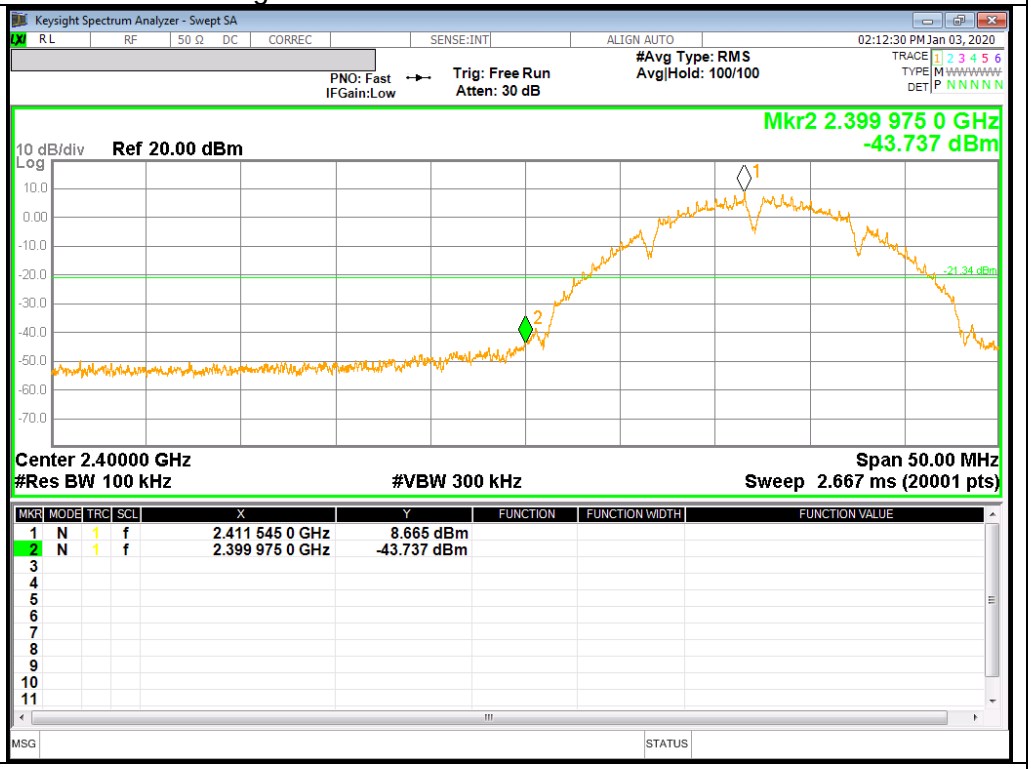
The transmitter output is connected to a spectrum analyzer with RBW = 100 kHz, VBW = 300 kHz, peak detector, and max hold. Measurements utilizing these settings are made of the in-band reference level, bandedge, out-of-band emissions (where measurements to the general radiated limits will not be made)

RESULTS

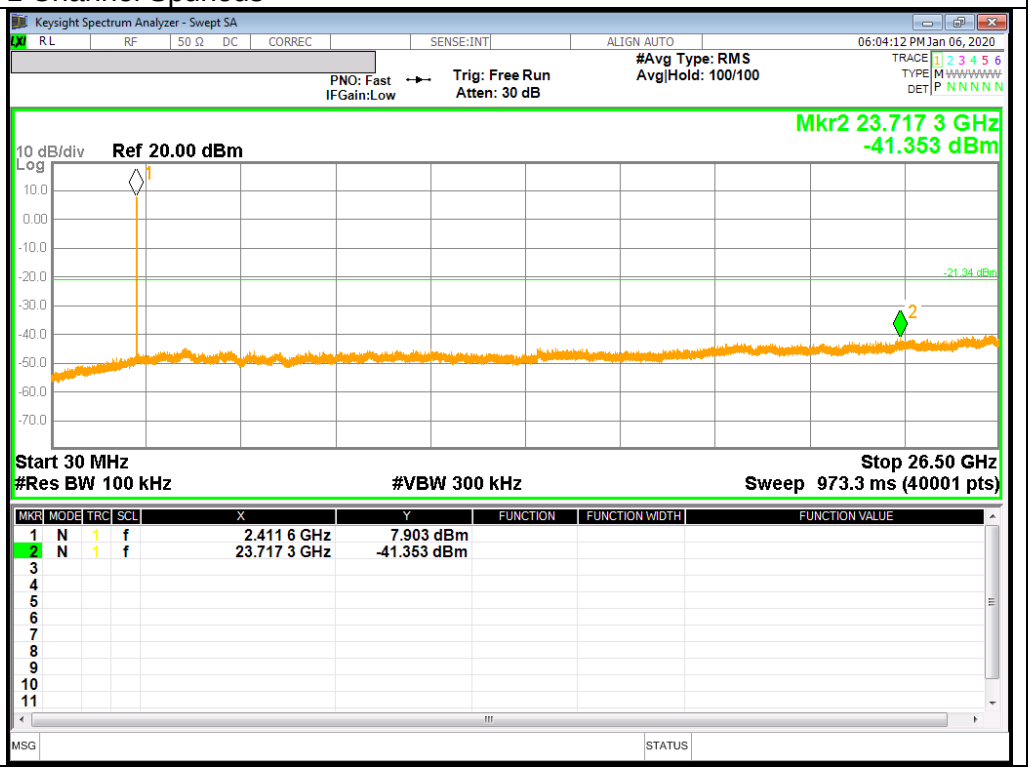
10.4.1. 802.11b MODE IN THE 2.4 GHz BAND

ANT1

1 Channel BandEdge

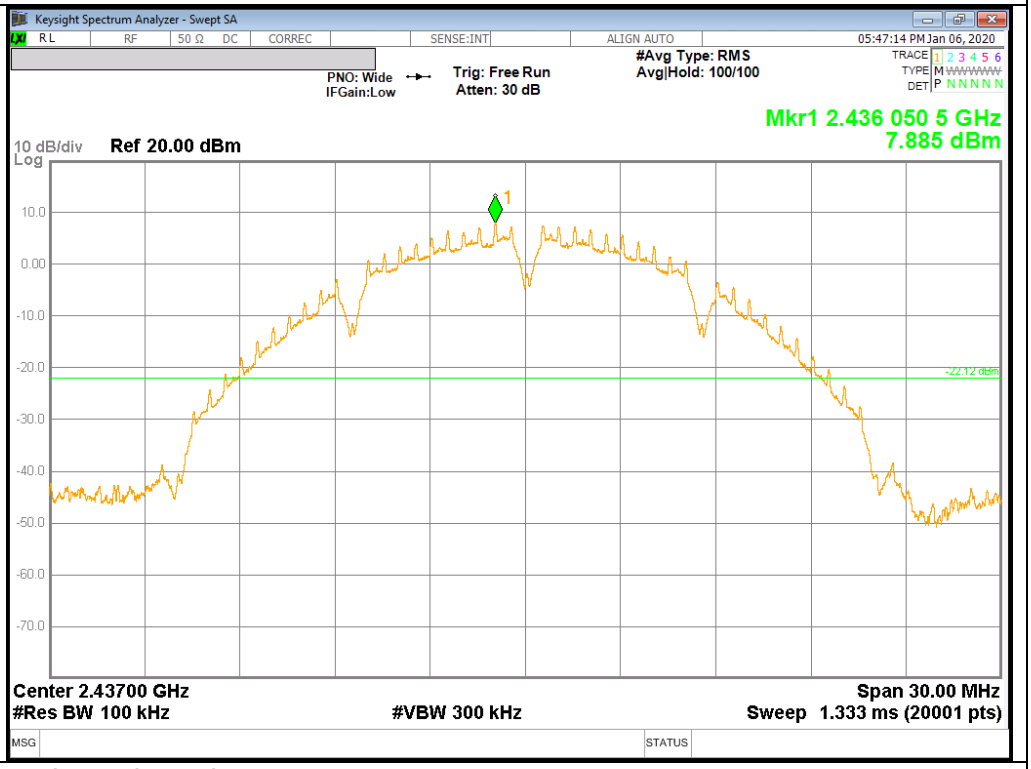


1 Channel Spurious



ANT1

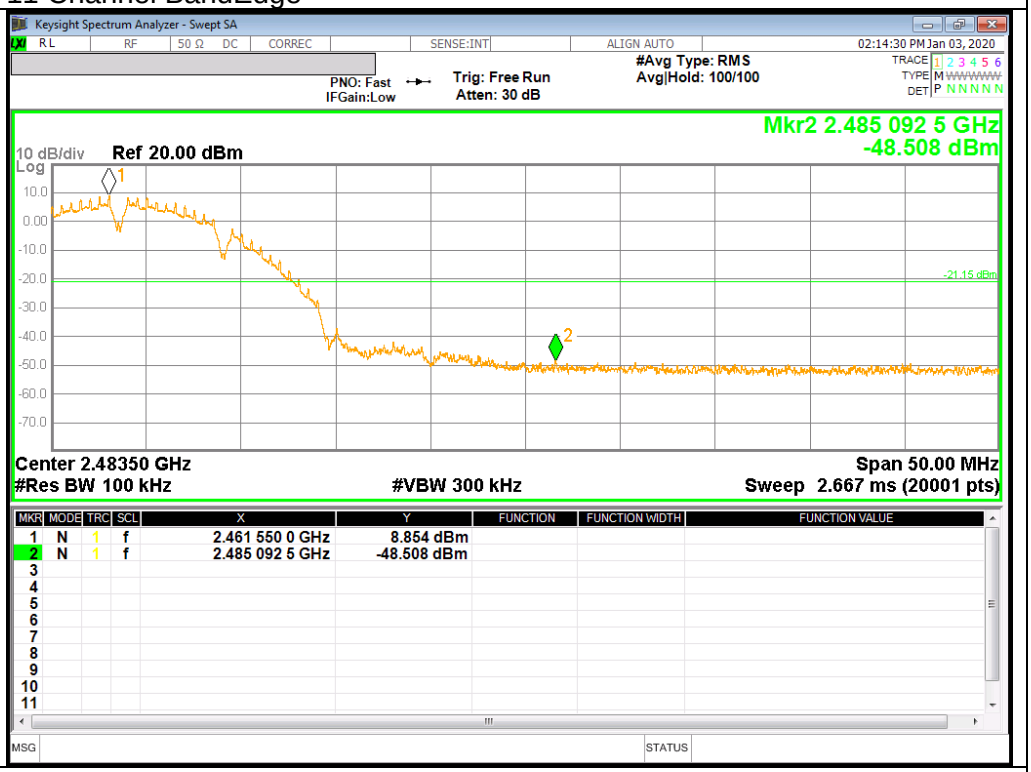
6 Channel Reference level



6 Channel Spurious

ANT1

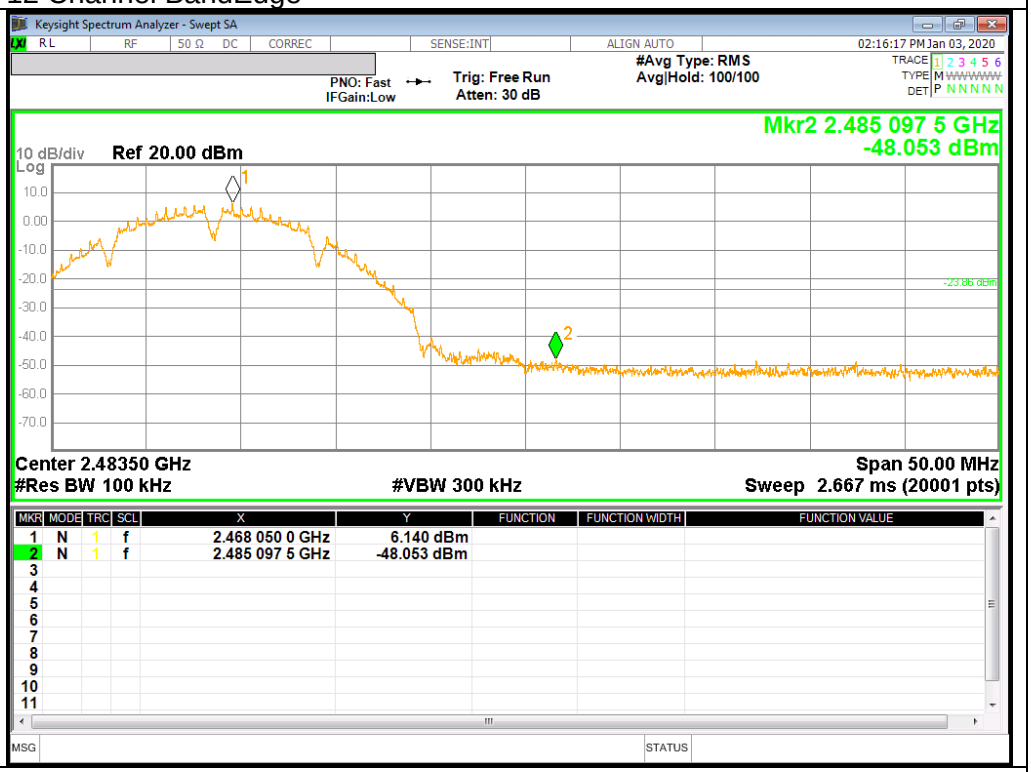
11 Channel BandEdge



11 Channel Spurious

ANT1

12 Channel BandEdge

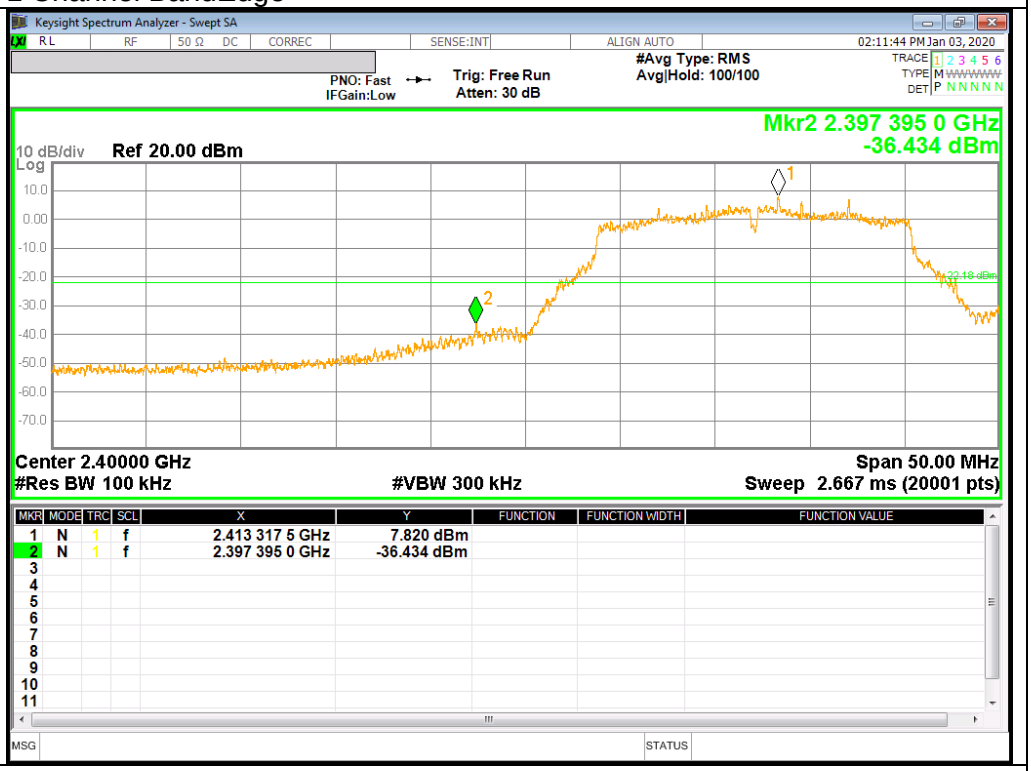


13 Channel BandEdge

10.4.2. 802.11g MODE IN THE 2.4 GHz BAND

ANT1

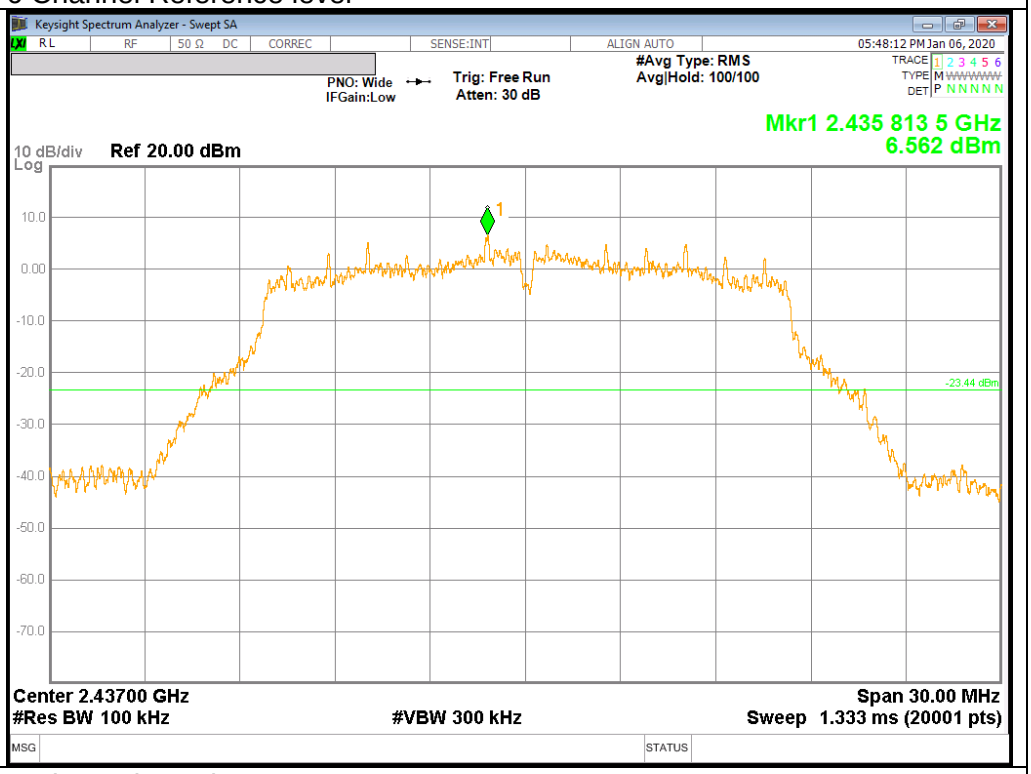
1 Channel BandEdge



1 Channel Spurious

ANT1

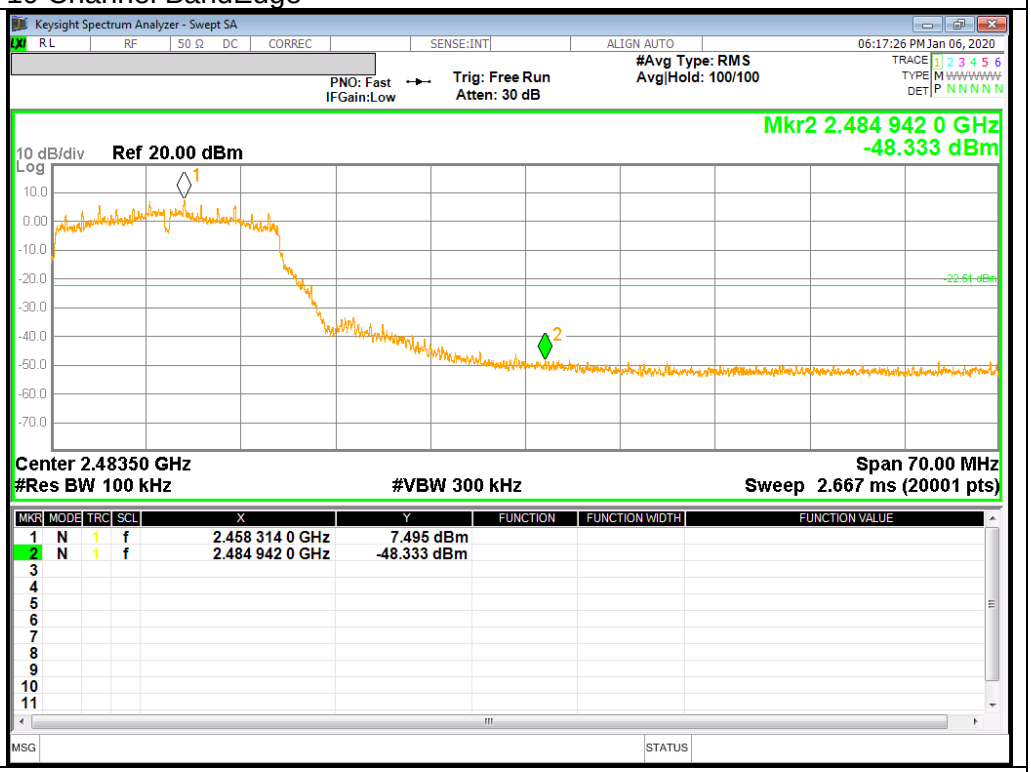
6 Channel Reference level



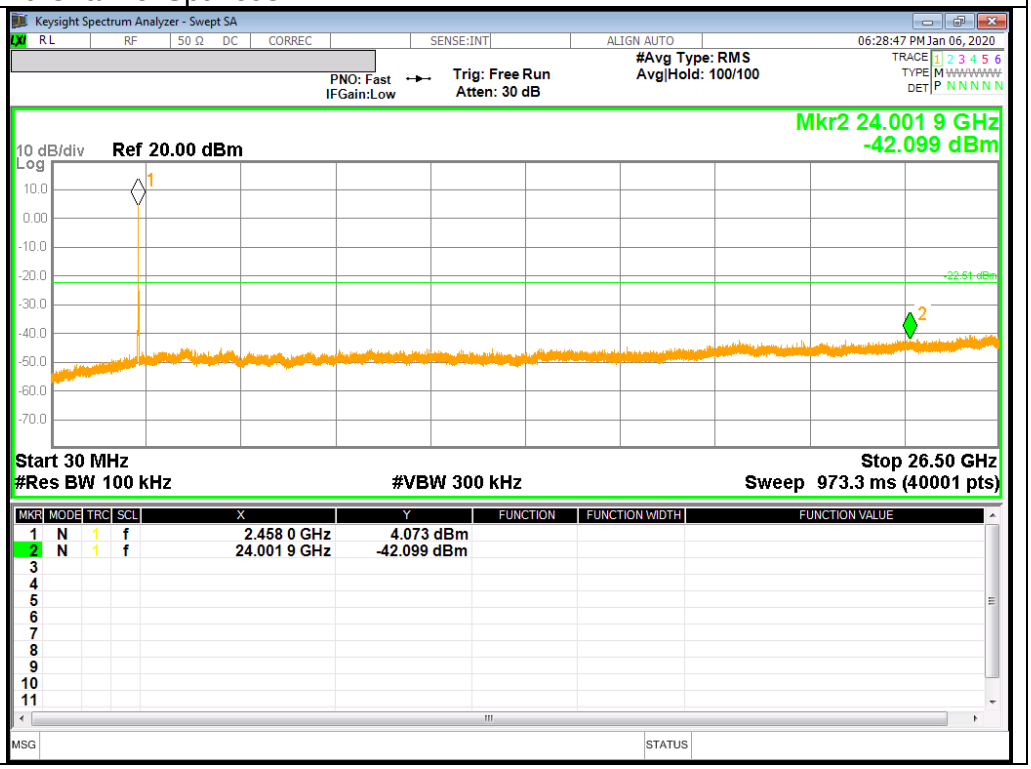
6 Channel Spurious

ANT1

10 Channel BandEdge

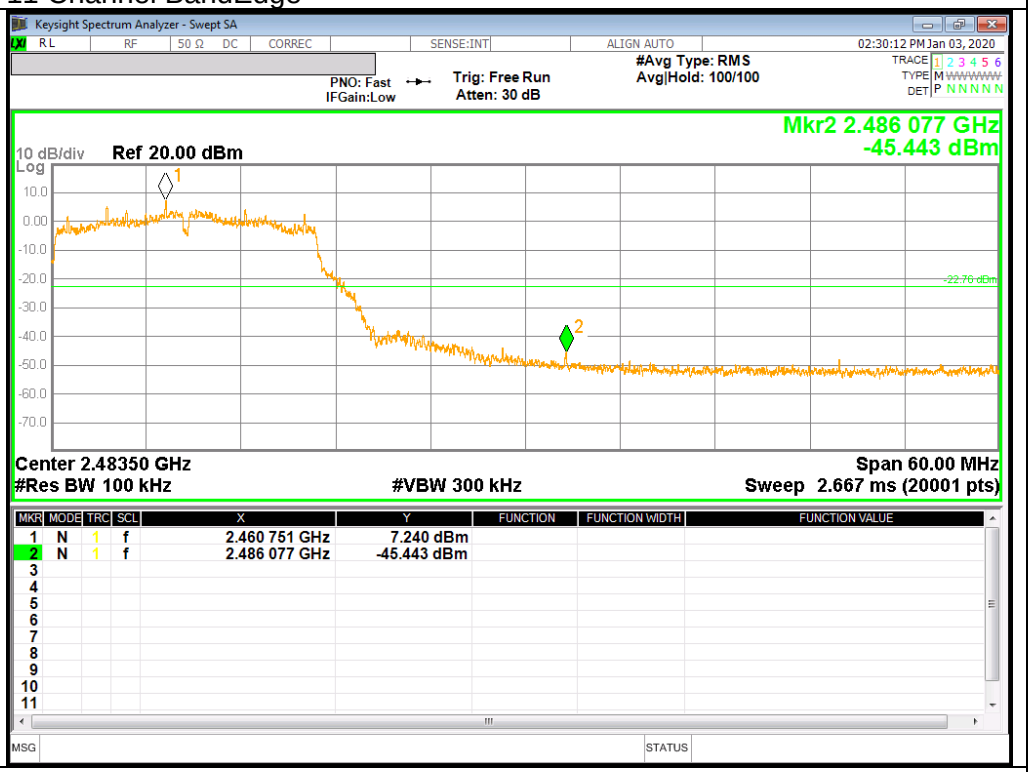


10 Channel Spurious



ANT1

11 Channel BandEdge



12 Channel BandEdge

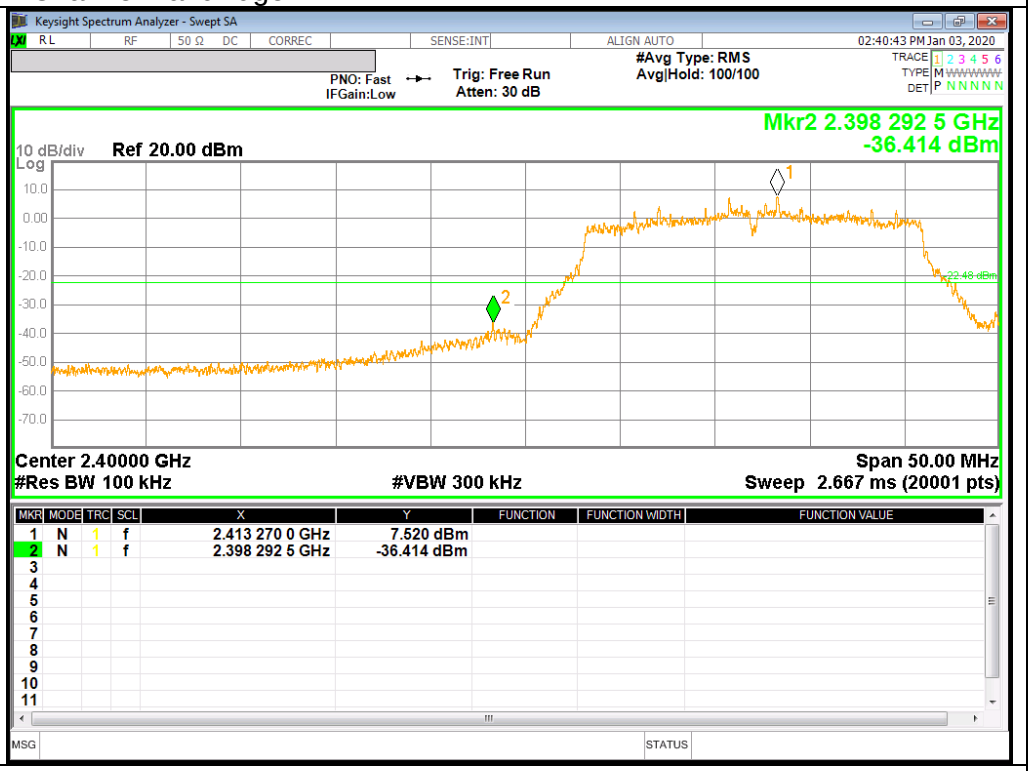
ANT1

13 Channel BandEdge

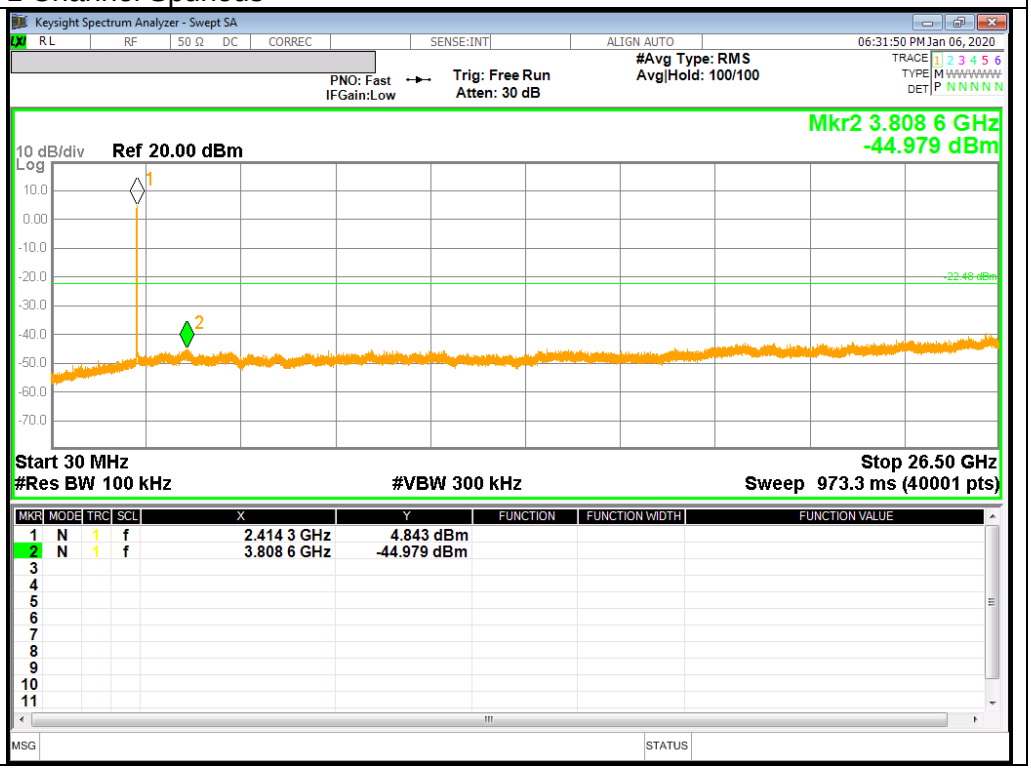
10.4.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND

ANT1

1 Channel BandEdge

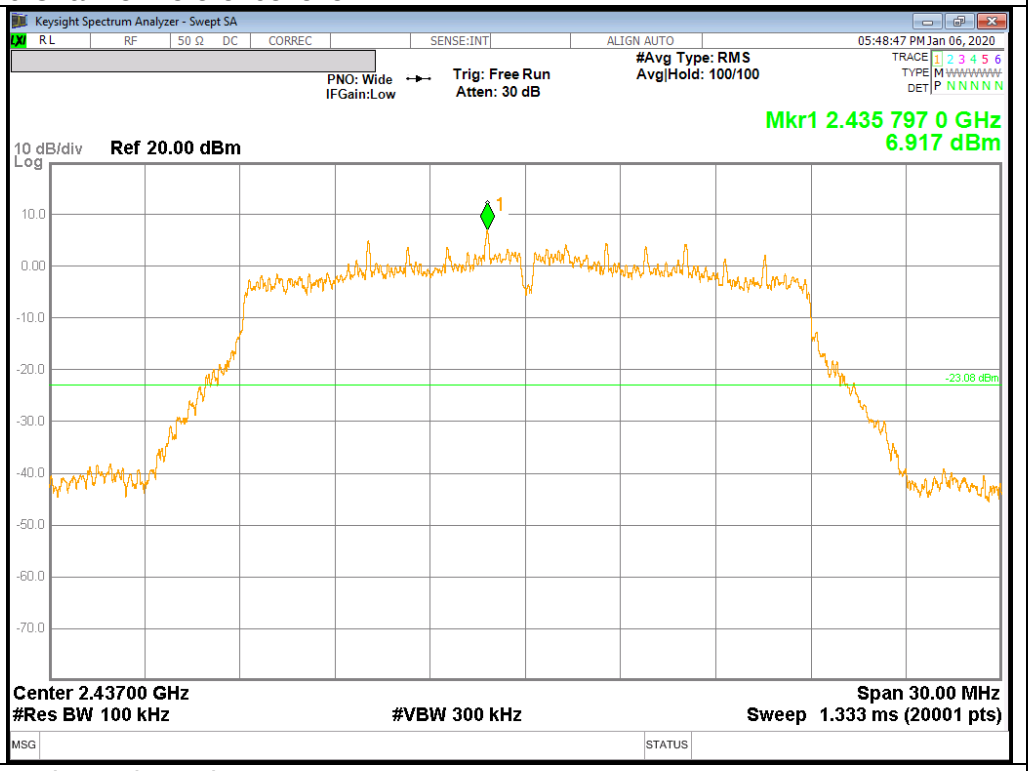


1 Channel Spurious

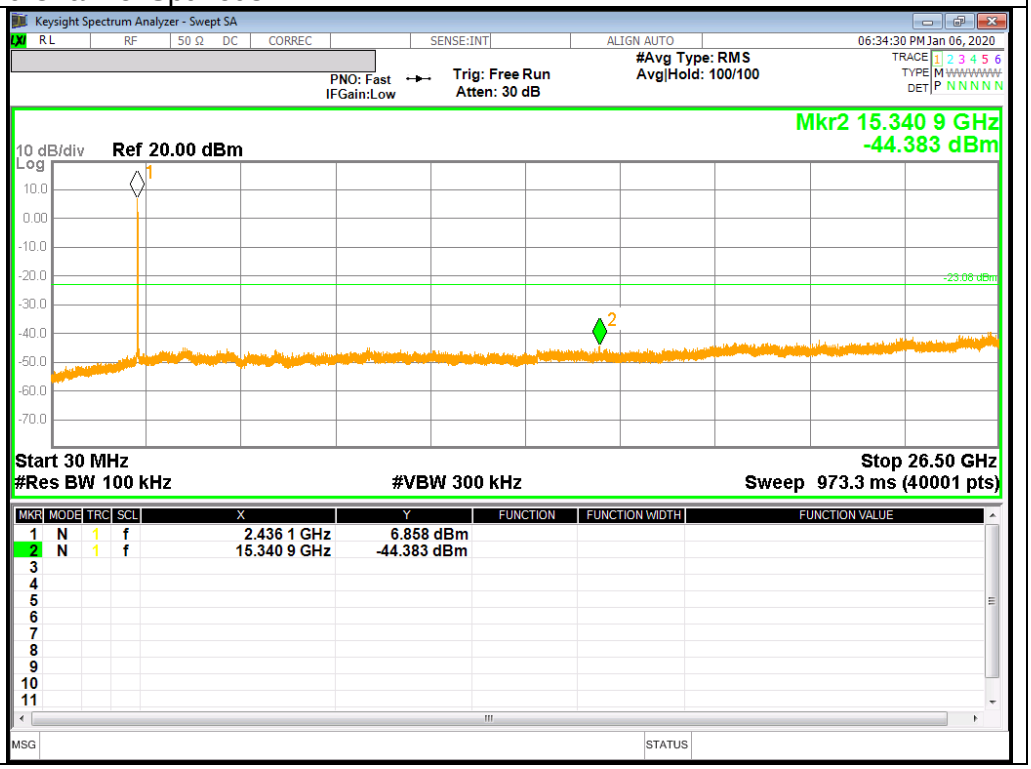


ANT1

6 Channel Reference level

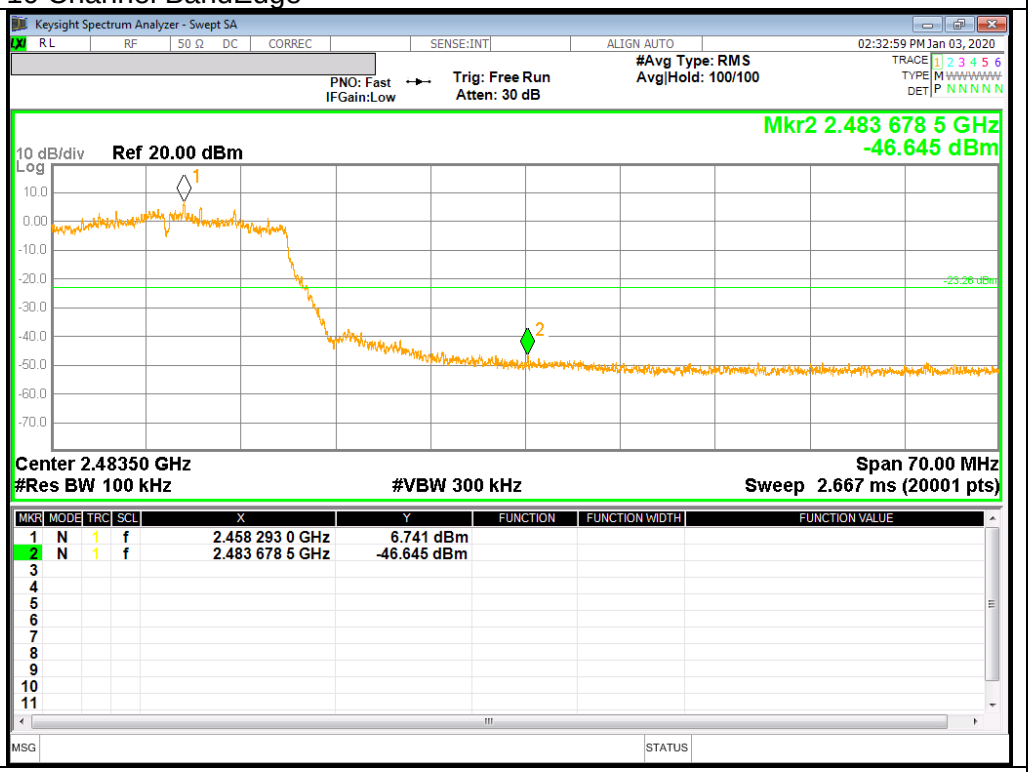


6 Channel Spurious



ANT1

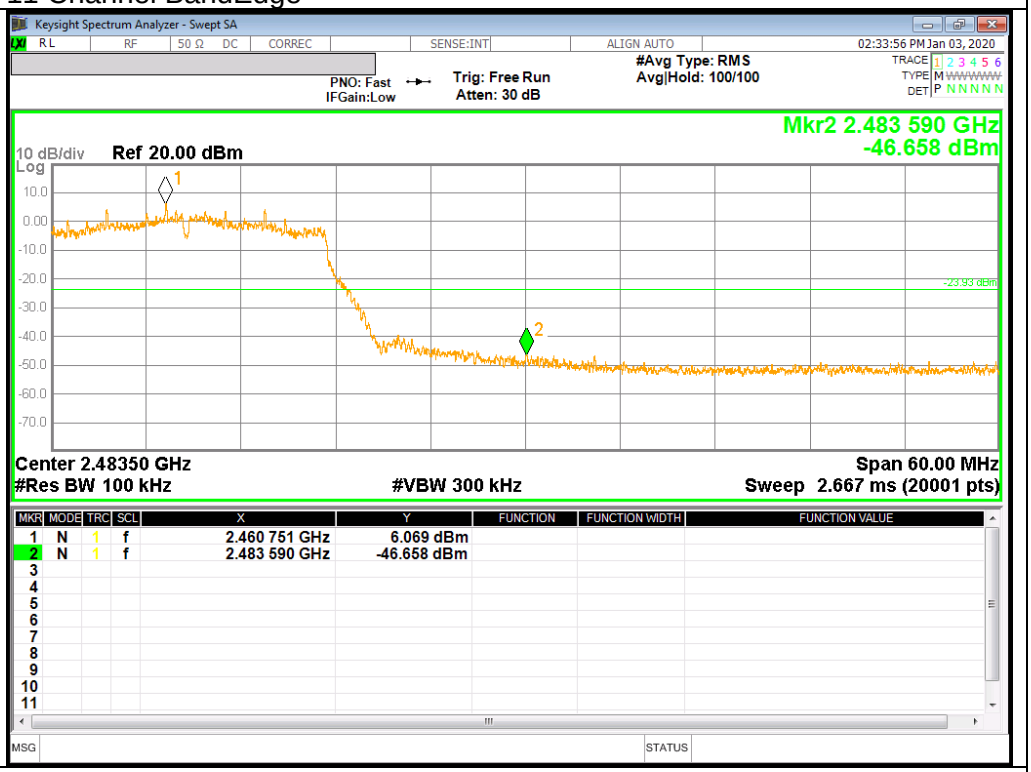
10 Channel BandEdge



10 Channel Spurious

ANT1

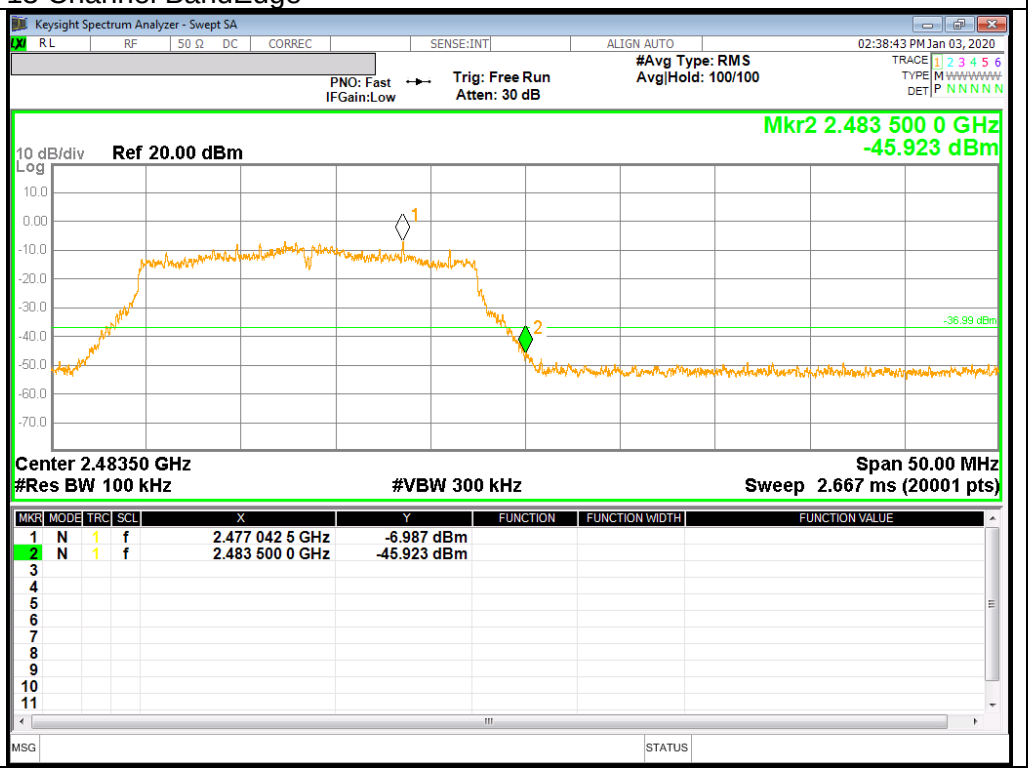
11 Channel BandEdge



12 Channel BandEdge

ANT1

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.

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. (Restriced bandedge, Final detection of spurious harmonic emissions)
Duty cycle factor= 10log (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 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 field 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.

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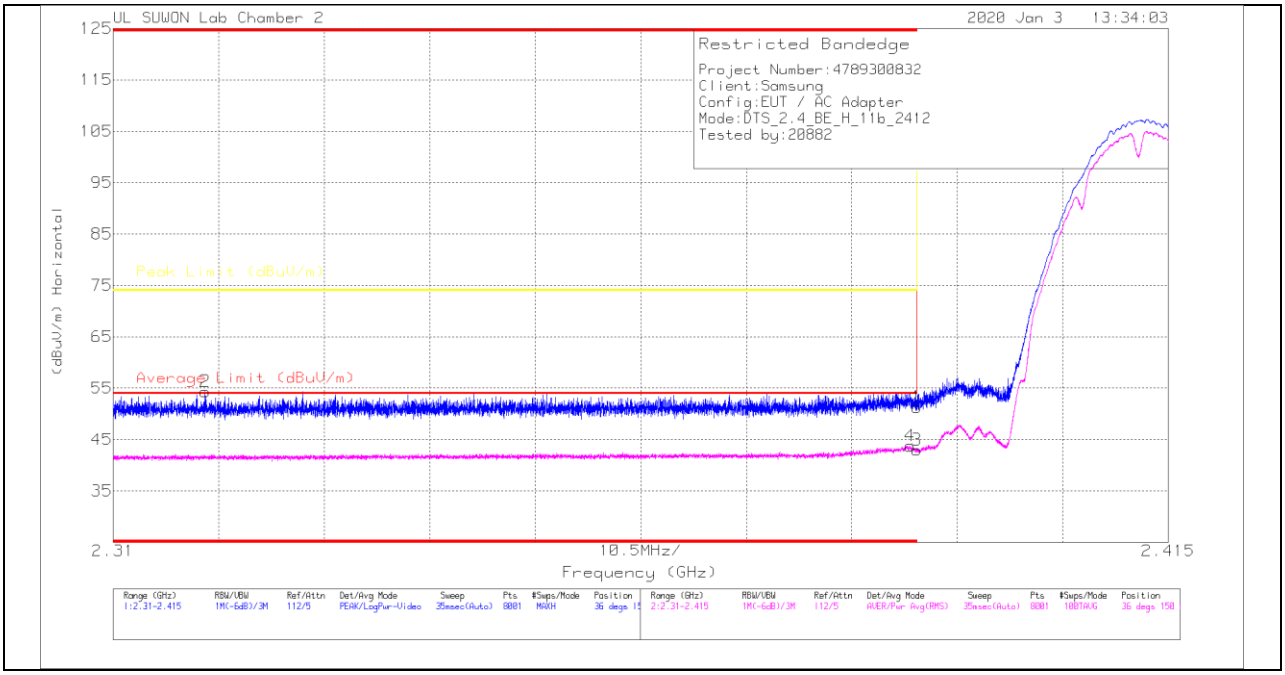
11.2. TRANSMITTER ABOVE 1 GHz

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

RESTRICTED BANDEDGE (1 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



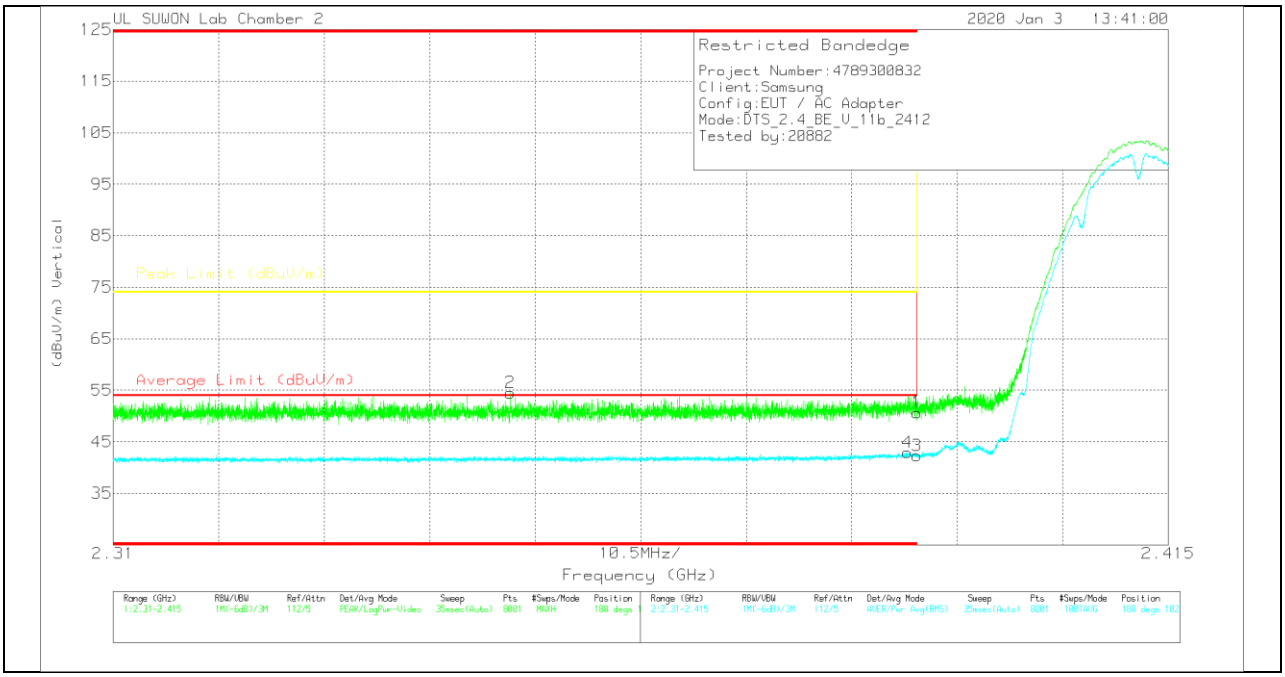
HORIZONTAL DATA

Trace Markers

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	40.29	Pk	31.6	-20.6	0	51.29	-	-	74	-22.71	36	150	H
2	* 2.31915	43.54	Pk	31.5	-20.7	0	54.34	-	-	74	-19.66	36	150	H
3	* 2.39	31.97	RMS	31.6	-20.6	0	42.97	54	-11.03	-	-	36	150	H
4	* 2.38931	32.75	RMS	31.6	-20.6	0	43.75	54	-10.25	-	-	36	150	H

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

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

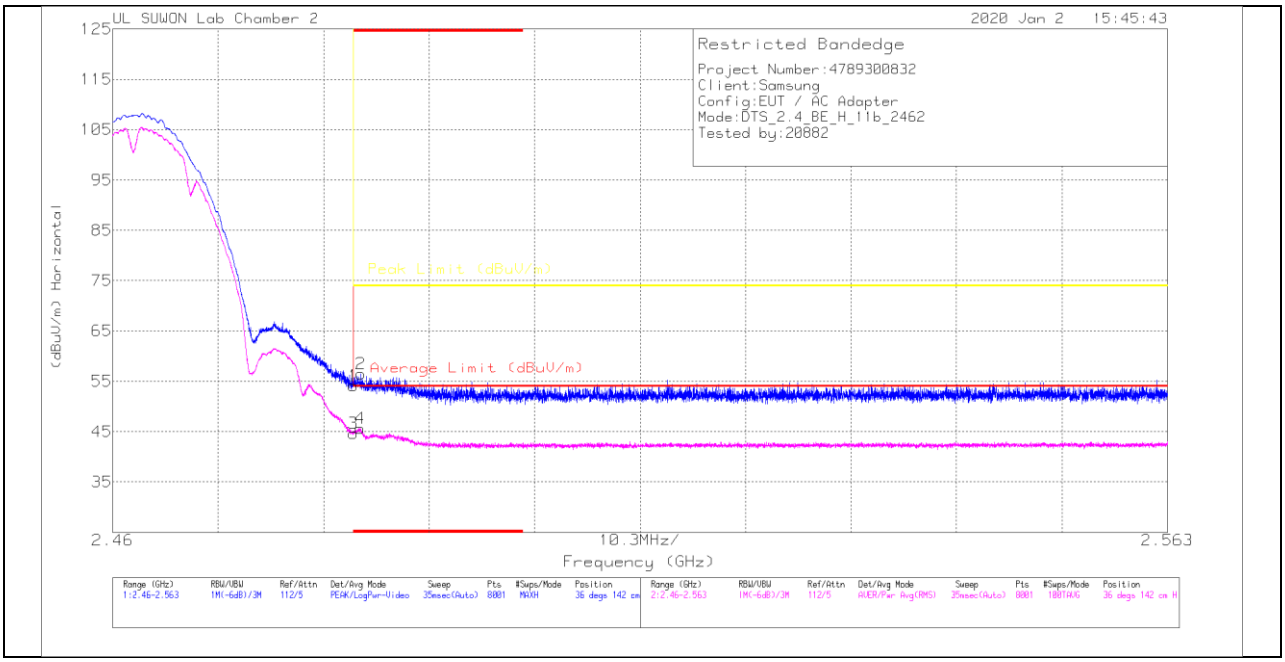
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_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	39.7	Pk	31.6	-20.6	0	50.7	-	-	74	-23.3	188	102	V
2	* 2.34951	43.62	Pk	31.6	-20.7	0	54.52	-	-	74	-19.48	188	102	V
3	* 2.39	31.33	RMS	31.6	-20.6	0	42.33	54	-11.67	-	-	188	102	V
4	* 2.38904	31.95	RMS	31.6	-20.6	0	42.95	54	-11.05	-	-	188	102	V

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

AUTHORIZED BANDEDGE (11 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



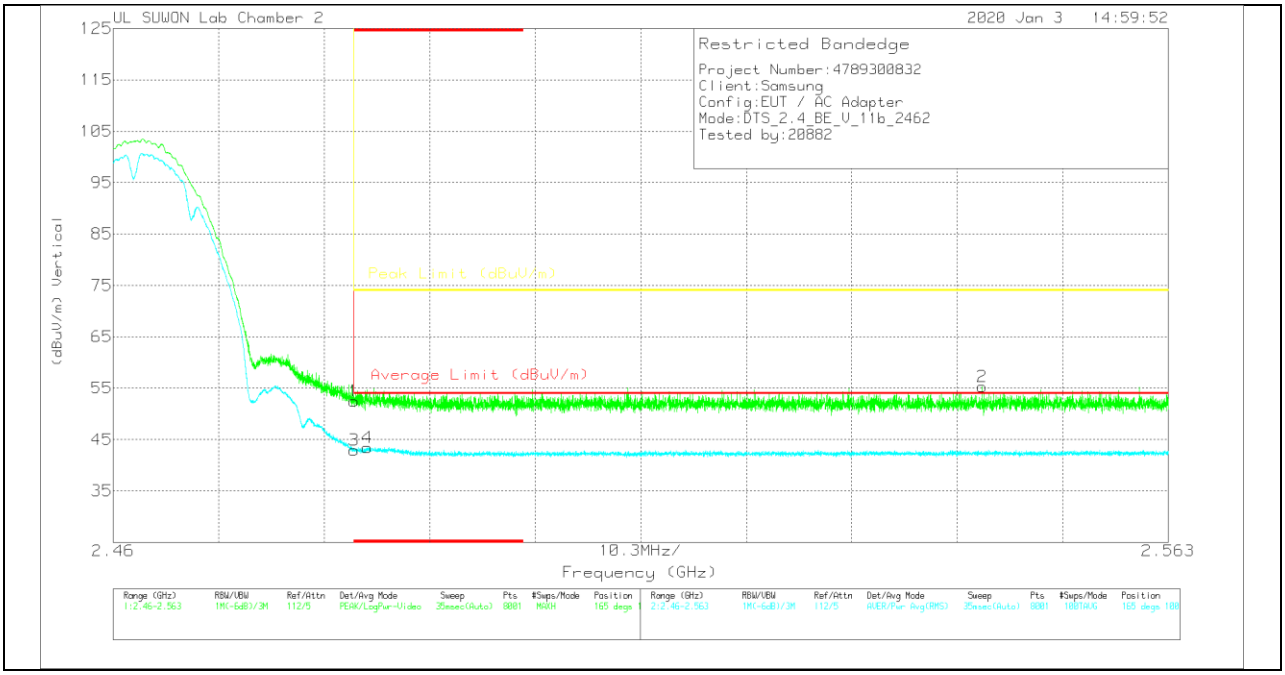
HORIZONTAL DATA

Trace Markers

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	42.61	Pk	31.9	-20.4	0	54.11	-	-	74	-19.89	36	142	H
2	*2.48424	44.95	Pk	31.9	-20.4	0	56.45	-	-	74	-17.55	36	142	H
3	*2.48351	33.13	RMS	31.9	-20.4	0	44.63	54	-9.37	-	-	36	142	H
4	*2.48417	34.14	RMS	31.9	-20.4	0	45.64	54	-8.36	-	-	36	142	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_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	40.97	Pk	31.9	-20.4	0	52.47	-	-	74	-21.53	165	100	V
2	2.54483	43.69	Pk	32	-20.4	0	55.29	-	-	74	-18.71	165	100	V
3	* 2.48351	31.43	RMS	31.9	-20.4	0	42.93	54	-11.07	-	-	165	100	V
4	* 2.48481	31.94	RMS	31.9	-20.4	0	43.44	54	-10.56	-	-	165	100	V

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

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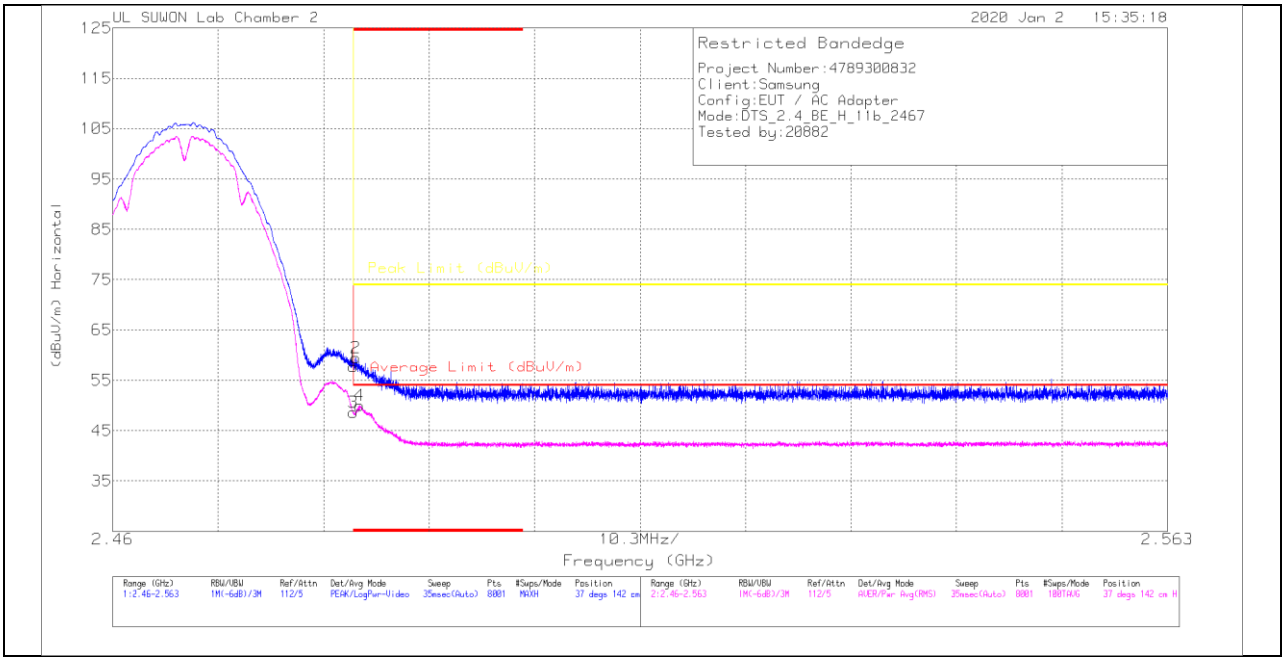
AUTHORIZED BANDEDGE (12 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



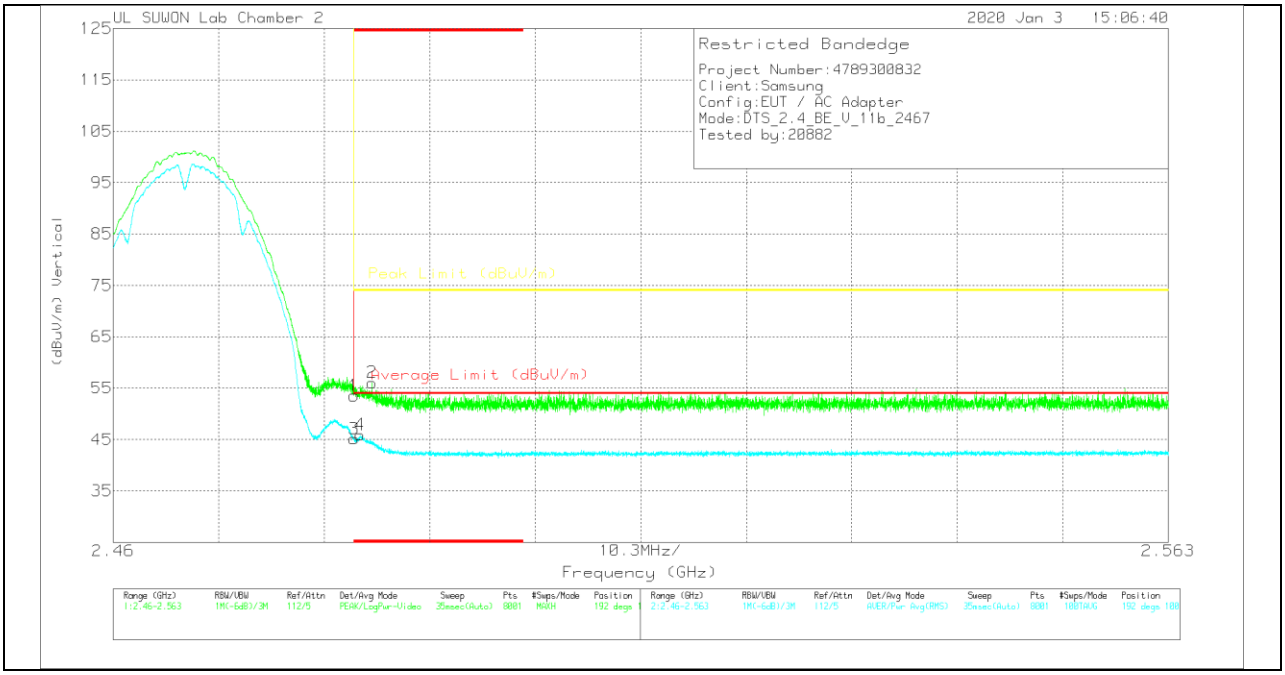
HORIZONTAL DATA

Trace Markers

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	46.21	Pk	31.9	-20.4	0	57.71	-	-	74	-16.29	37	142	H
2	* 2.48374	48.02	Pk	31.9	-20.4	0	59.52	-	-	74	-14.48	37	142	H
3	* 2.48351	37.12	RMS	31.9	-20.4	0	48.62	54	-5.38	-	-	37	142	H
4	* 2.48409	38.49	RMS	31.9	-20.4	0	49.99	54	-4.01	-	-	37	142	H

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

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

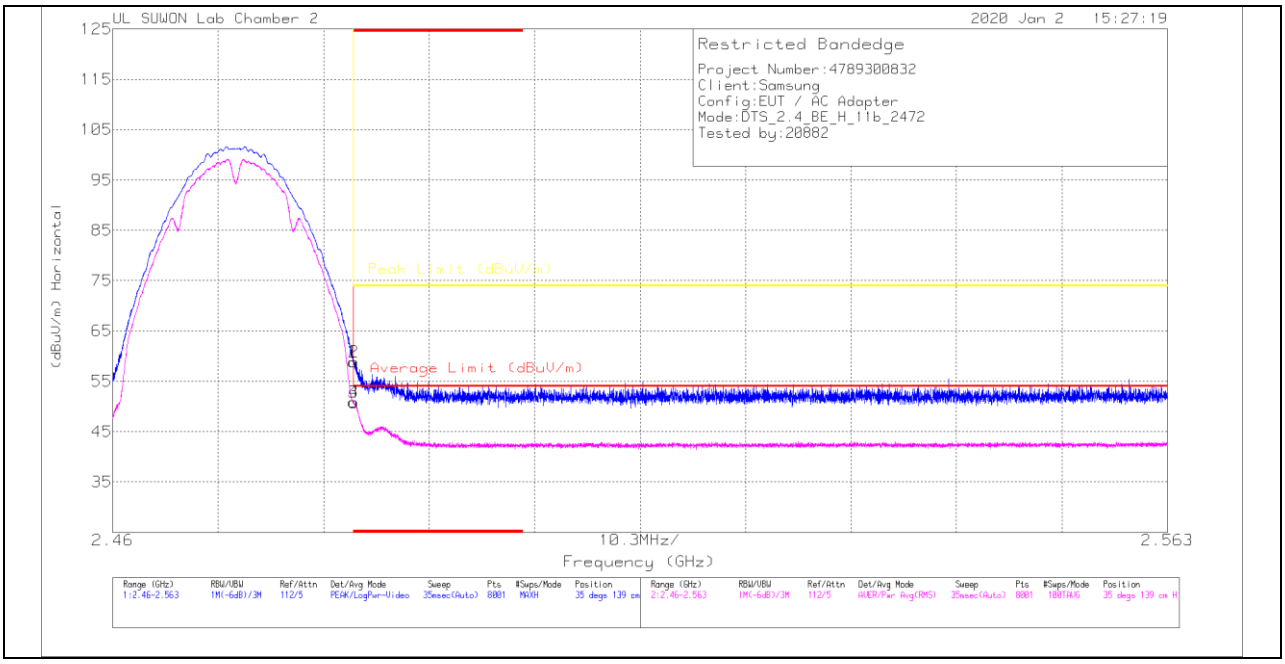
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_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	42.05	Pk	31.9	-20.4	0	53.55	-	-	74	-20.45	192	100	V
2	* 2.48526	44.58	Pk	31.9	-20.4	0	56.08	-	-	74	-17.92	192	100	V
3	* 2.48351	33.62	RMS	31.9	-20.4	0	45.12	54	-8.88	-	-	192	100	V
4	* 2.4841	34.4	RMS	31.9	-20.4	0	45.9	54	-8.1	-	-	192	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



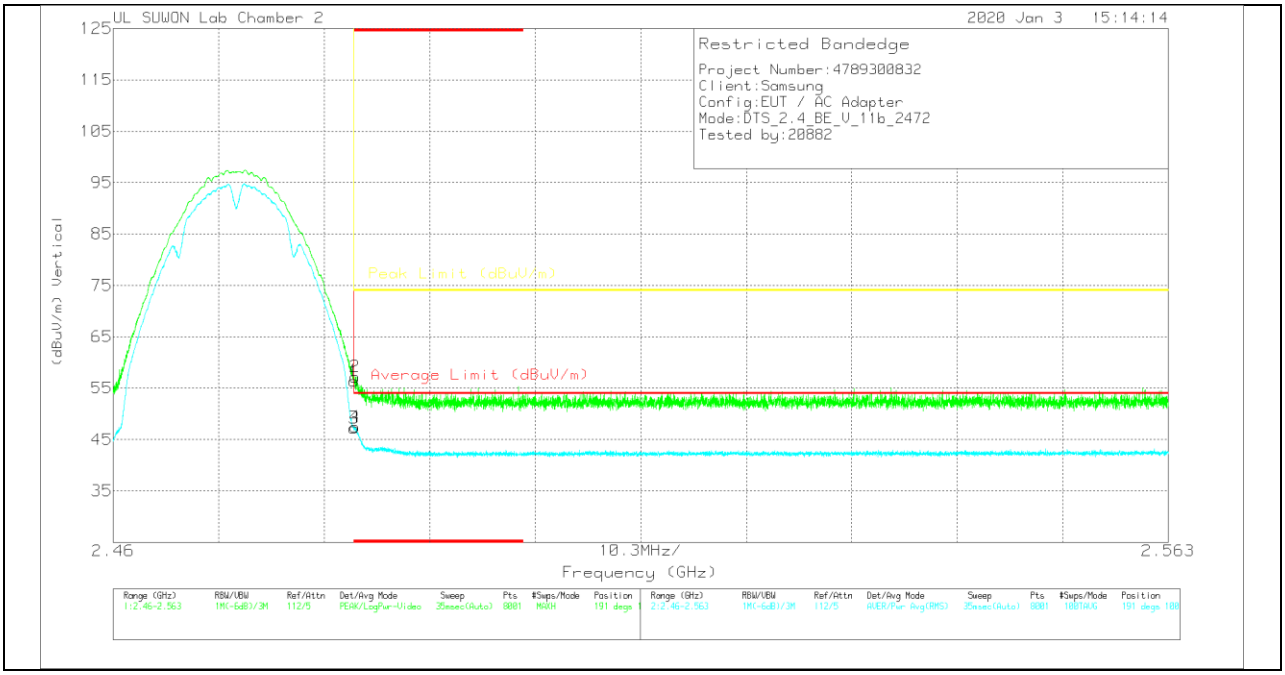
HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_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	47.41	Pk	31.9	-20.4	0	58.91	-	-	74	-15.09	35	139	H
2	* 2.48355	47.35	Pk	31.9	-20.4	0	58.85	-	-	74	-15.15	35	139	H
3	* 2.48351	39.33	RMS	31.9	-20.4	0	50.83	54	-3.17	-	-	35	139	H
4	* 2.48355	39.32	RMS	31.9	-20.4	0	50.82	54	-3.18	-	-	35	139	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

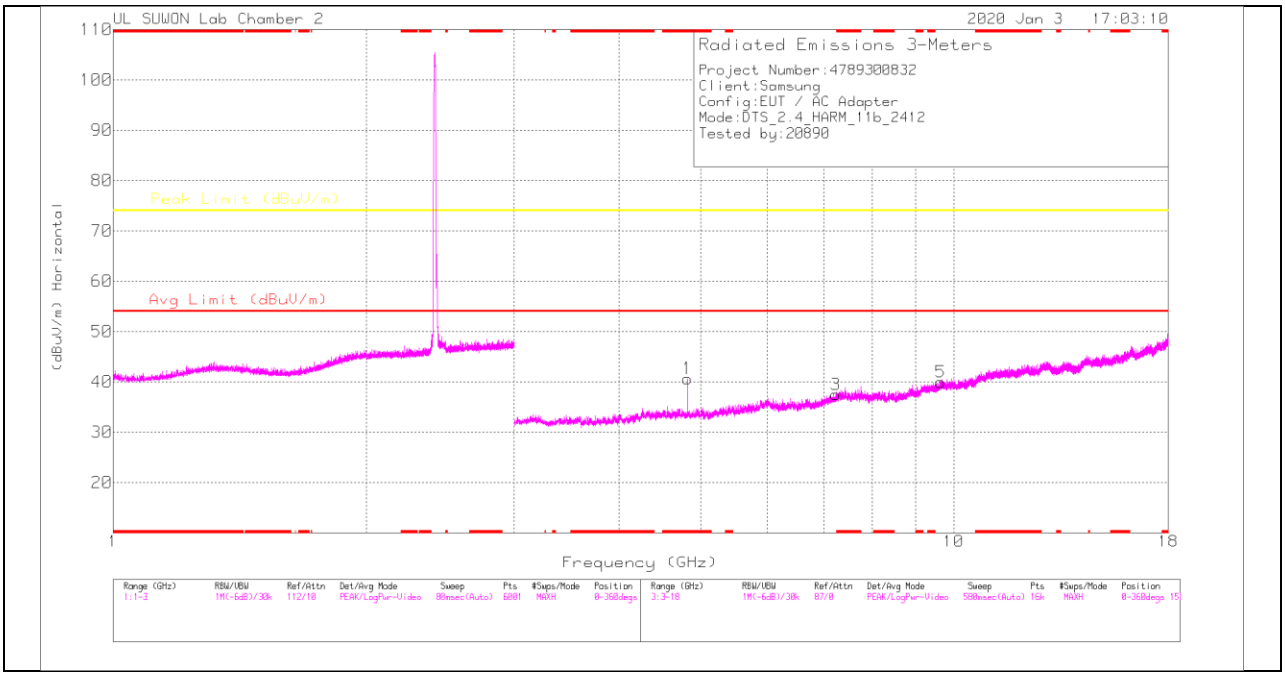
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_ATT[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.48351	44.91	Pk	31.9	-20.4	0	56.41	-	-	74	-17.59	191	100	V
2	* 2.4836	45.71	Pk	31.9	-20.4	0	57.21	-	-	74	-16.79	191	100	V
3	* 2.48351	35.74	RMS	31.9	-20.4	0	47.24	54	-6.76	-	-	191	100	V
4	* 2.48359	35.96	RMS	31.9	-20.4	0	47.46	54	-6.54	-	-	191	100	V

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

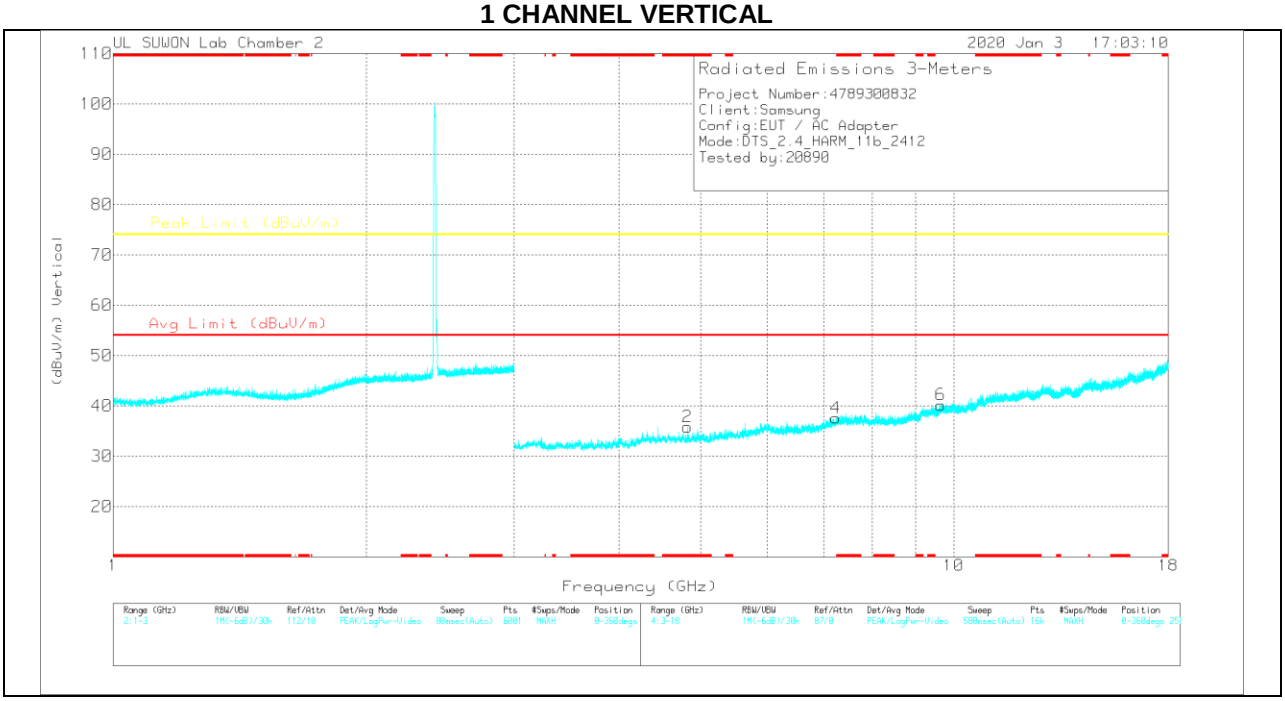
UL Korea, Ltd. Suwon Laboratory FORM ID: FCC_15C(03)
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433

HARMONICS AND SPURIOUS EMISSIONS

1 CHANNEL HORIZONTAL



1 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.

1 CHANNEL DATA

Radiated Emissions

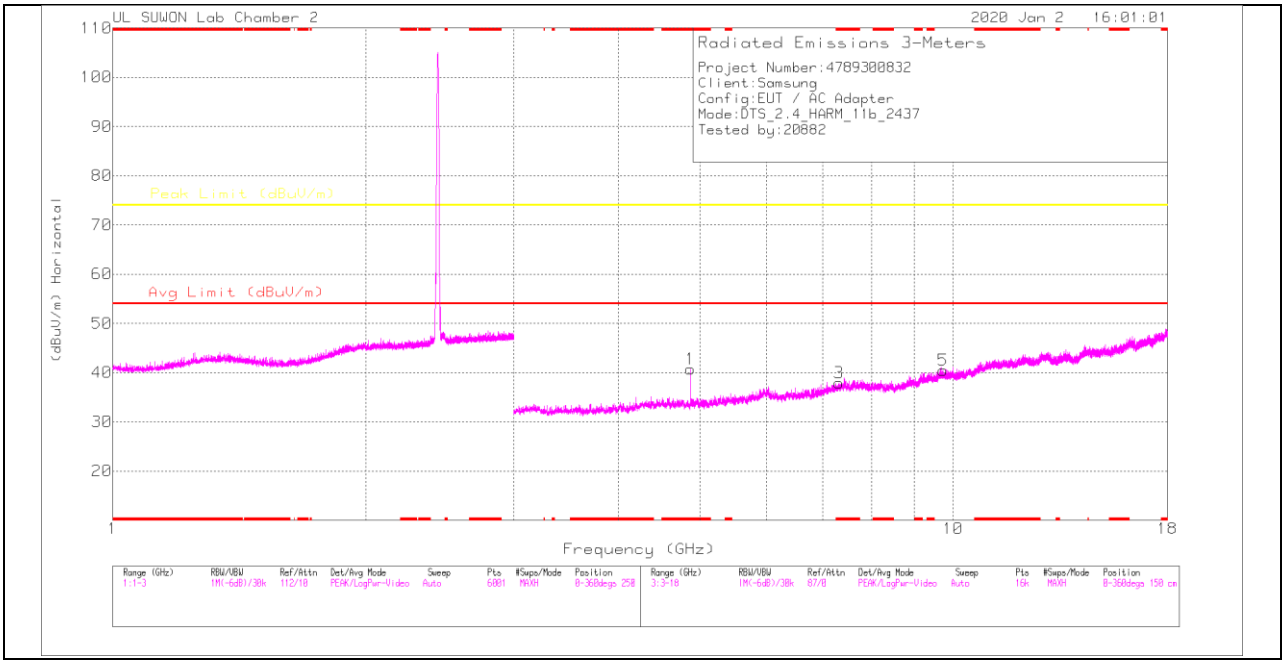
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.82406	41.26	PK2	34	-28.1	0	47.16	-	-	74	-26.84	132	155	H
* 4.82402	34.84	MAv1	34	-28.1	0	40.74	54	-13.26	-	-	132	155	H
* 4.8241	39.35	PK2	34	-28.1	0	45.25	-	-	74	-28.75	212	106	V
* 4.82406	31.45	MAv1	34	-28.1	0	37.35	54	-16.65	-	-	212	106	V
7.24247	35.82	PK2	36.1	-25.3	0	46.62	-	-	74	-27.38	360	100	H
7.24371	35.17	PK2	36.1	-25.4	0	45.87	-	-	74	-28.13	360	100	V
9.64831	32.51	PK2	37	-21.5	0	48.01	-	-	74	-25.99	360	100	H
9.64589	32.3	PK2	37	-21.5	0	47.8	-	-	74	-26.2	360	100	V

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

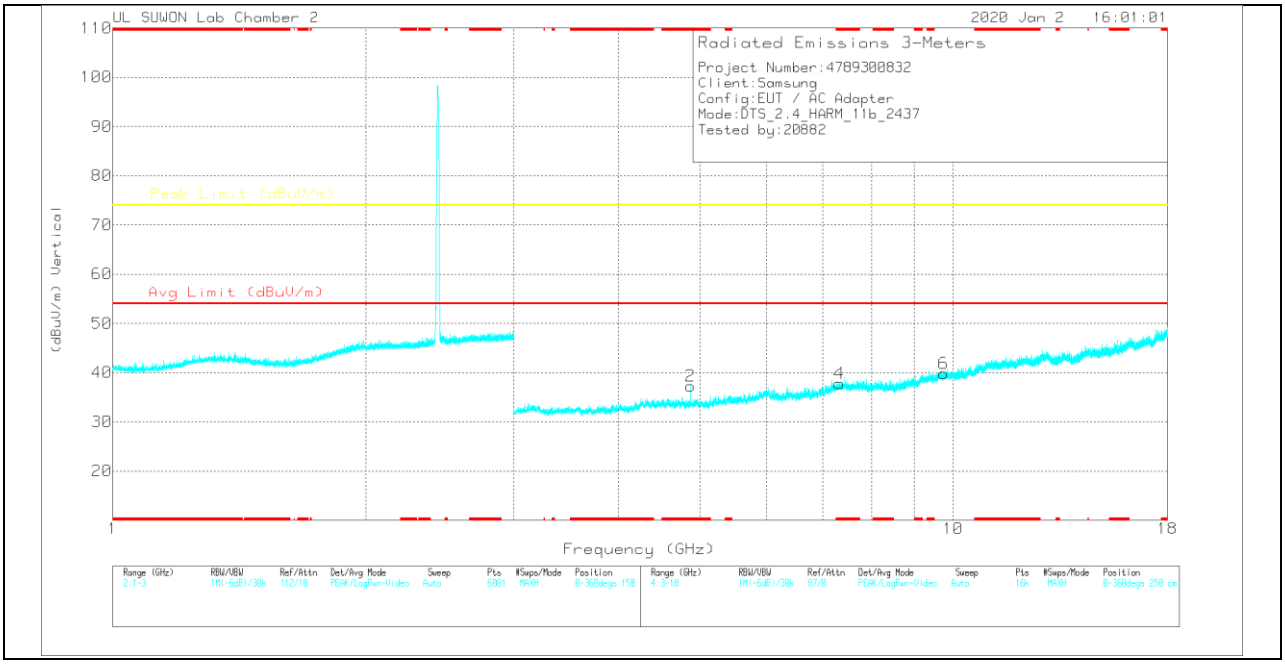
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

6 CHANNEL HORIZONTAL



6 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.

6 CHANNEL DATA

Radiated Emissions

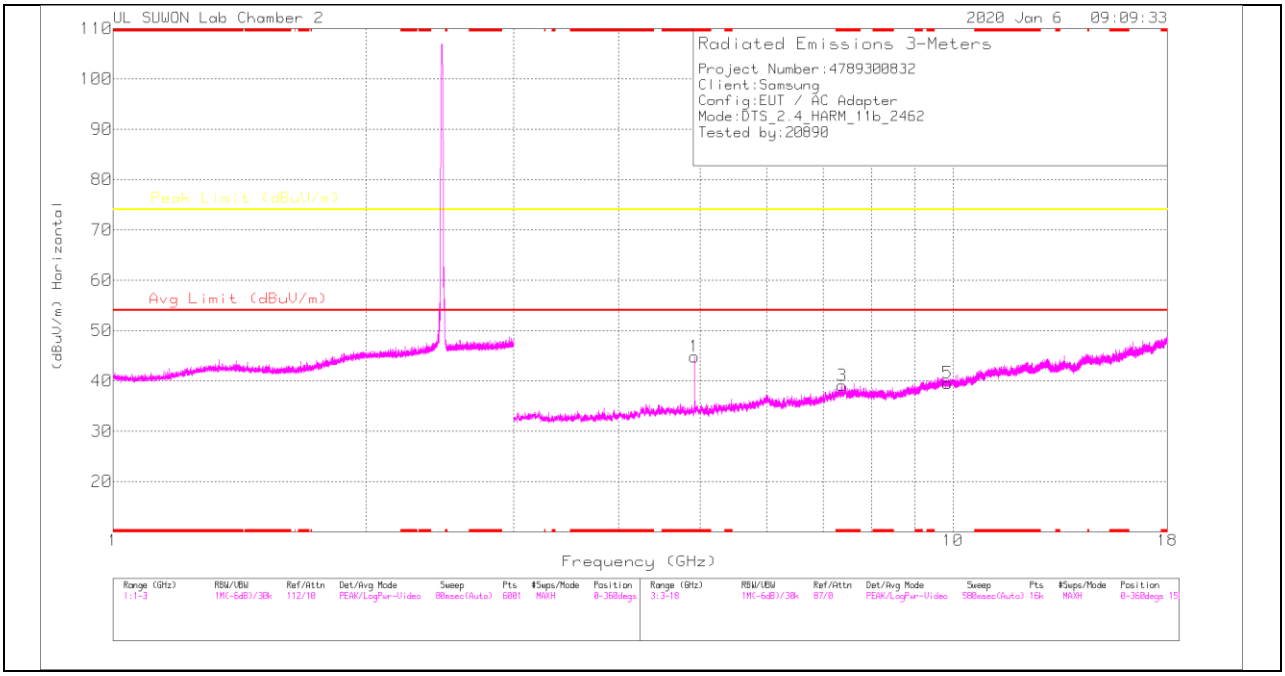
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	3GHz_HP[dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.87392	40.39	PK-U	34	-27.9	0	46.49	-	-	74	-27.51	136	231	H
* 4.87402	34.72	ADR	34	-27.9	0	40.82	54	-13.18	-	-	136	231	H
* 4.87398	38.3	PK-U	34	-27.9	0	44.4	-	-	74	-29.6	210	102	V
* 4.87406	30.61	ADR	34	-27.9	0	36.71	54	-17.29	-	-	210	102	V
* 7.32061	33.66	Pk	36.2	-24.8	0	45.06	-	-	74	-28.94	360	100	H
* 7.3236	30.4	Pk	36.2	-24.8	0	41.8	-	-	74	-32.2	360	100	V
9.73445	29.16	Pk	37.2	-21.2	0	45.16	-	-	74	-28.84	360	100	H
9.73445	26.66	Pk	37.2	-21.2	0	42.66	-	-	74	-31.34	360	100	V

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

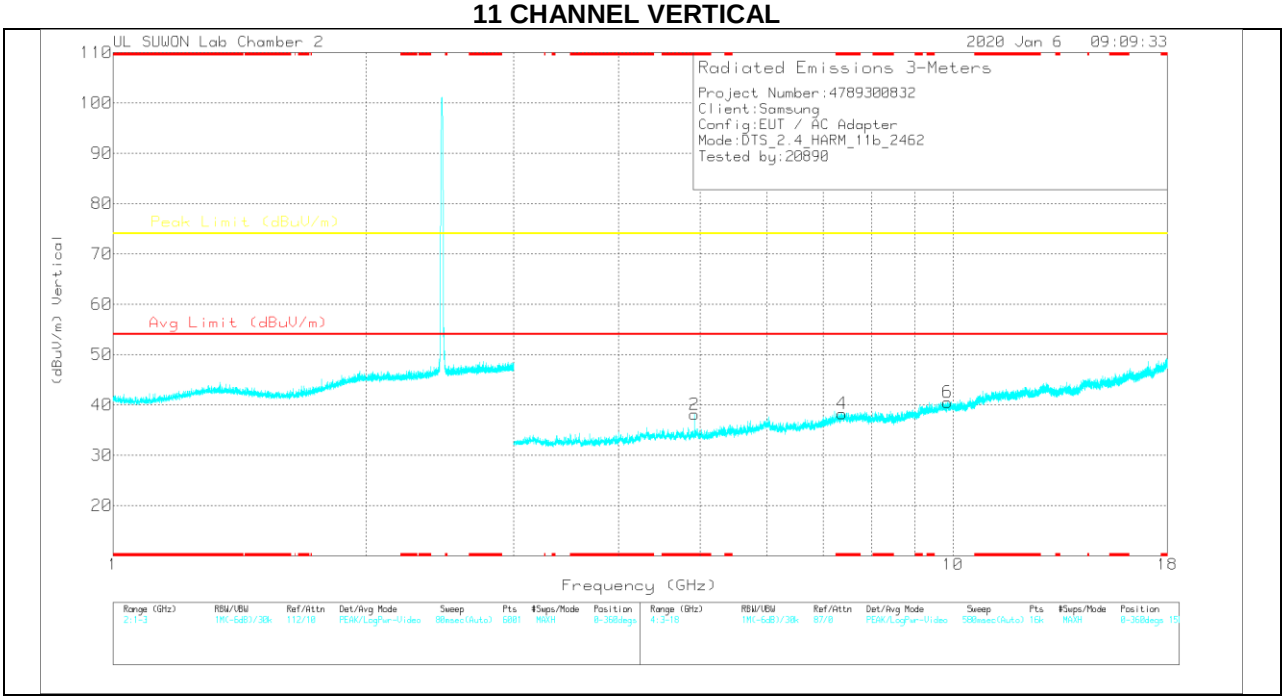
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

11 CHANNEL HORIZONTAL



11 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.

11 CHANNEL DATA

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
* 4.92387	42.08	PK2	34	-27.2	0	48.88	-	-	74	-25.12	131	252	H
* 4.92403	37.59	MAv1	34	-27.2	0	44.39	54	-9.61	-	-	131	252	H
* 4.92391	38.33	PK2	34	-27.2	0	45.13	-	-	74	-28.87	209	221	V
* 4.92405	30.95	MAv1	34	-27.2	0	37.75	54	-16.25	-	-	209	221	V
* 7.37924	35.02	PK2	36.2	-24.2	0	47.02	-	-	74	-26.98	360	100	H
* 7.38142	35.33	PK2	36.2	-24.2	0	47.33	-	-	74	-26.67	360	100	V
9.85241	32.37	PK2	37.4	-21.6	0	48.17	-	-	74	-25.83	360	100	H
9.85205	32.92	PK2	37.4	-21.6	0	48.72	-	-	74	-25.28	360	100	V

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

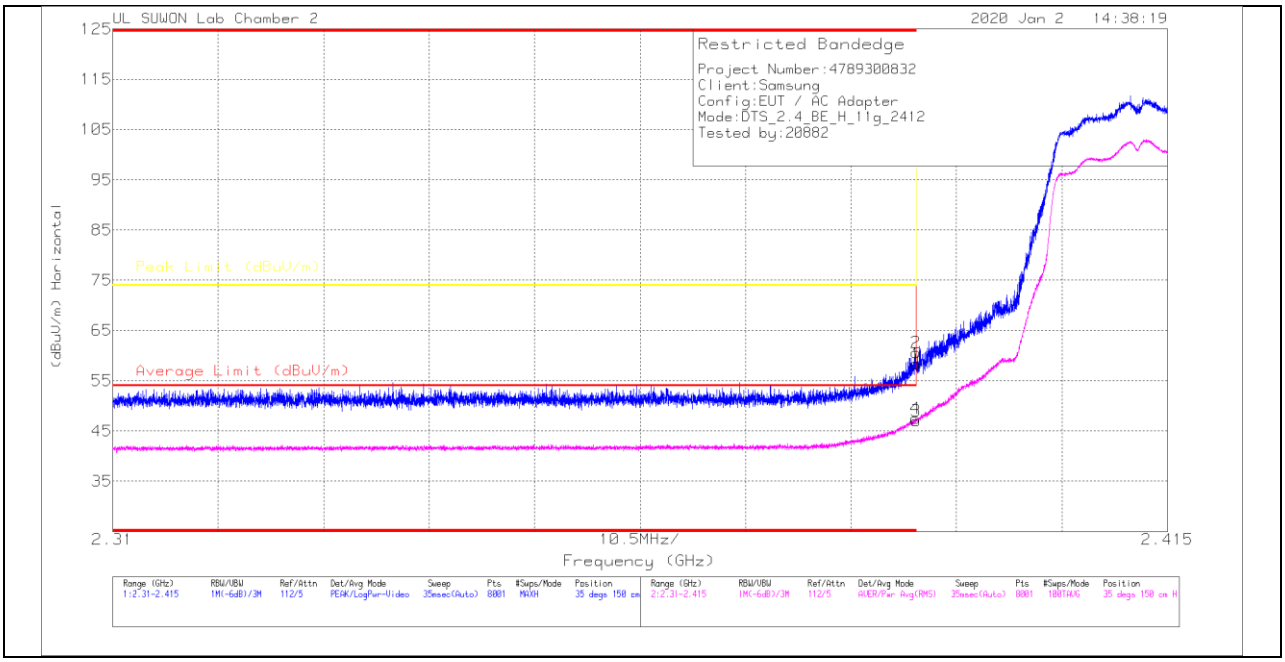
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

11.2.2. TX ABOVE 1 GHz 802.11g IN THE 2.4 GHz BAND

RESTRICTED BANDEDGE (1 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



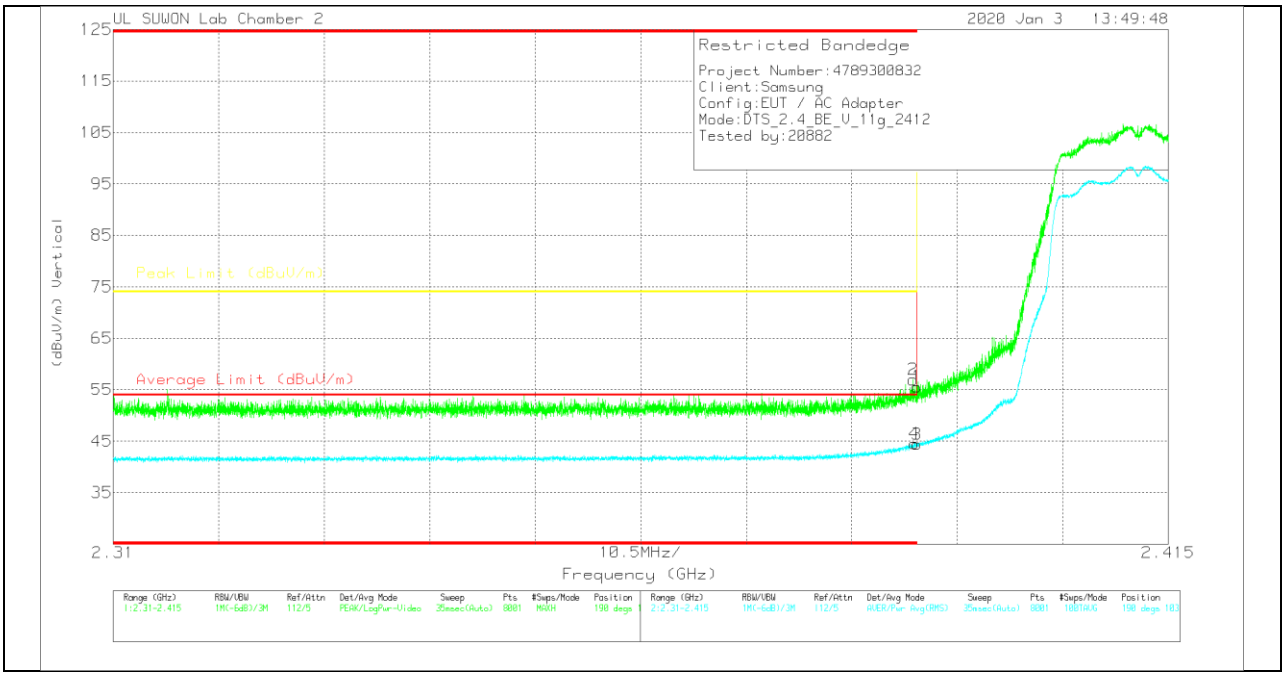
HORIZONTAL DATA

Trace Markers

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	47.36	Pk	31.6	-20.6	0	58.36	-	-	74	-15.64	35	150	H
2	* 2.38997	49.63	Pk	31.6	-20.6	0	60.63	-	-	74	-13.37	35	150	H
3	* 2.39	36.07	RMS	31.6	-20.6	0	47.07	54	-6.93	-	-	35	150	H
4	* 2.38991	36.51	RMS	31.6	-20.6	0	47.51	54	-6.49	-	-	35	150	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_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	44.6	Pk	31.6	-20.6	0	55.6	-	-	74	-18.4	190	103	V
2	* 2.38959	45.97	Pk	31.6	-20.6	0	56.97	-	-	74	-17.03	190	103	V
3	* 2.39	33.39	RMS	31.6	-20.6	0	44.39	54	-9.61	-	-	190	103	V
4	* 2.38975	33.52	RMS	31.6	-20.6	0	44.52	54	-9.48	-	-	190	103	V

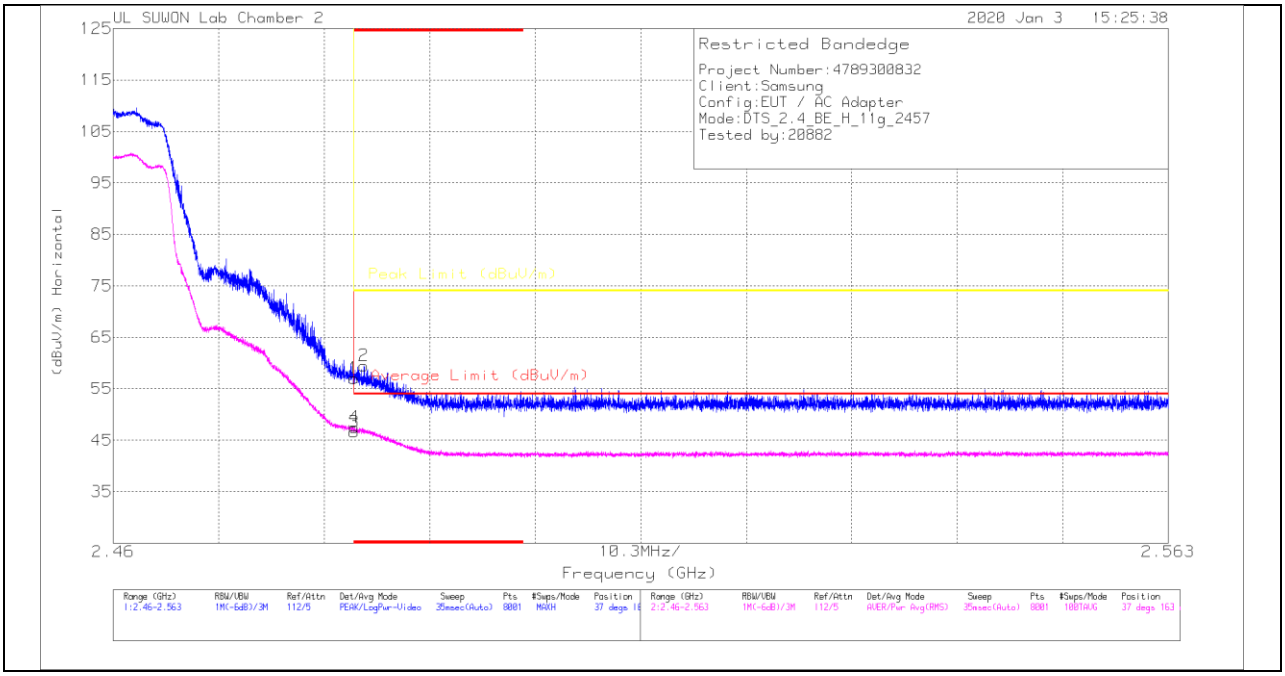
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (10 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



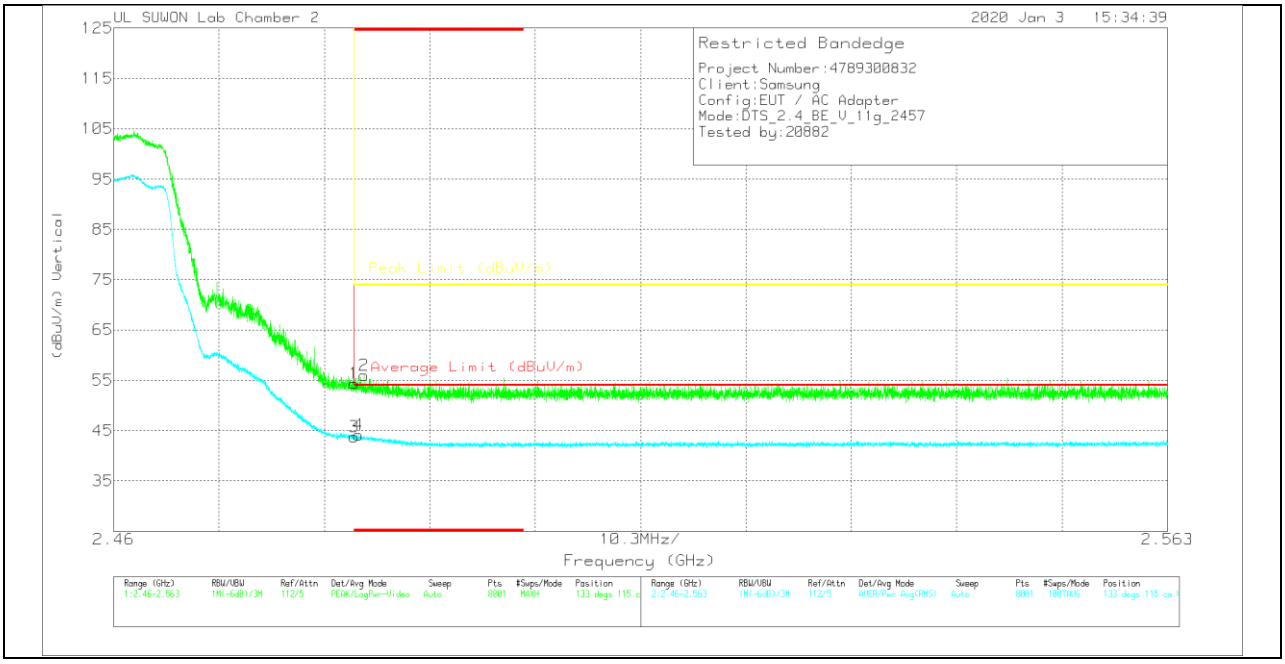
HORIZONTAL DATA

Trace Markers

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	45.54	Pk	31.9	-20.4	0	57.04	-	-	74	-16.96	37	163	H
2	* 2.48446	47.99	Pk	31.9	-20.4	0	59.49	-	-	74	-14.51	37	163	H
3	* 2.48351	35.09	RMS	31.9	-20.4	0	46.59	54	-7.41	-	-	37	163	H
4	* 2.48354	35.98	RMS	31.9	-20.4	0	47.48	54	-6.52	-	-	37	163	H

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

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

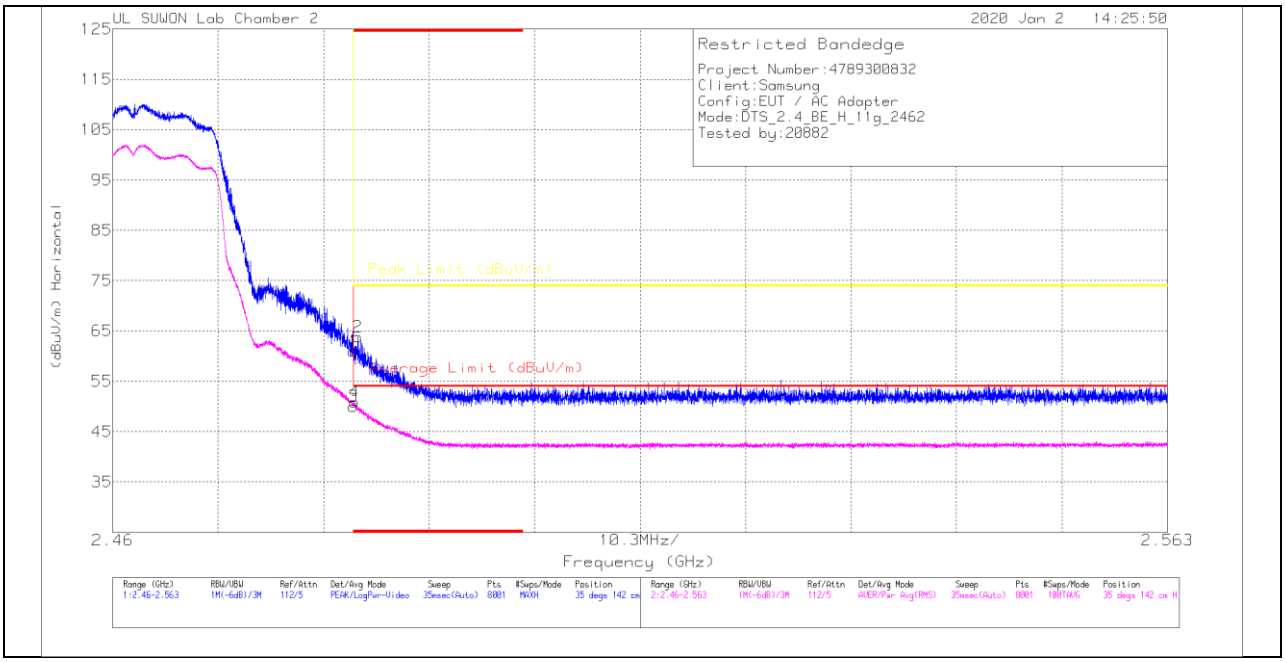
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_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	42.91	Pk	31.9	-20.4	0	54.41	-	-	74	-19.59	133	115	V
2	* 2.48448	44.54	Pk	31.9	-20.4	0	56.04	-	-	74	-17.96	133	115	V
3	* 2.48351	32.25	RMS	31.9	-20.4	0	43.75	54	-10.25	-	-	133	115	V
4	* 2.48391	32.7	RMS	31.9	-20.4	0	44.2	54	-9.8	-	-	133	115	V

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

AUTHORIZED BANDEDGE (11 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



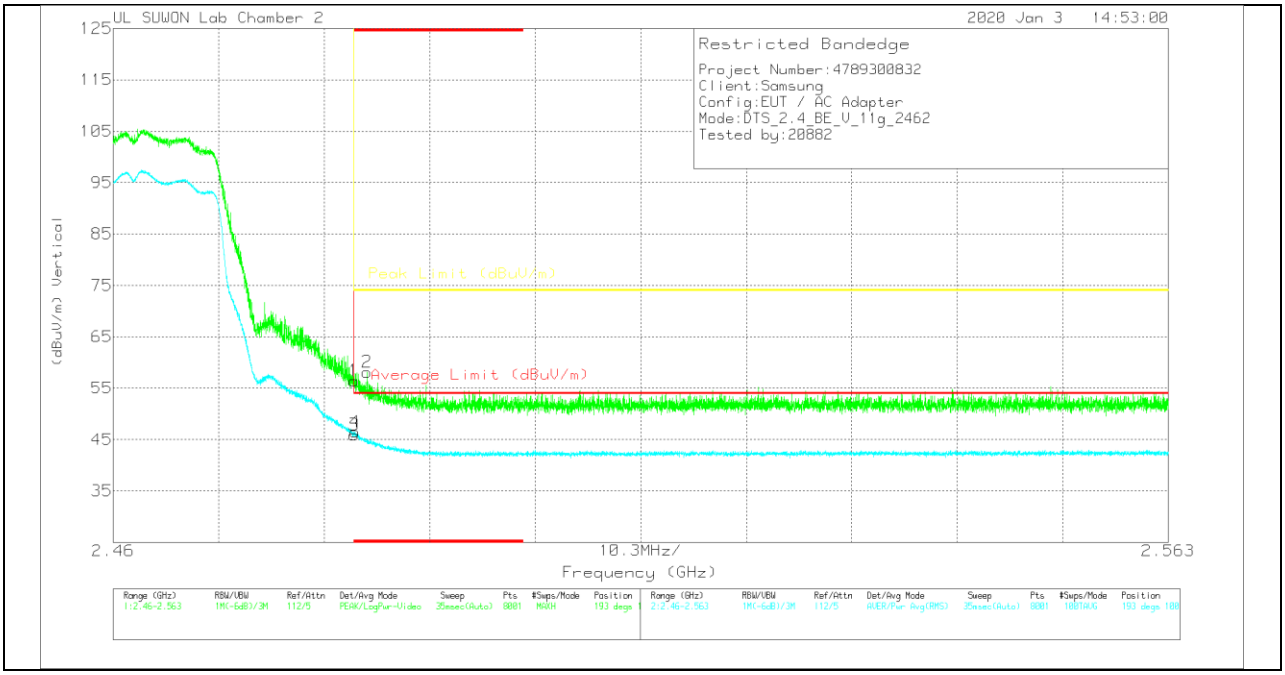
HORIZONTAL DATA

Trace Markers

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	49.42	Pk	31.9	-20.4	0	60.92	-	-	74	-13.08	35	142	H
2	* 2.48393	52.37	Pk	31.9	-20.4	0	63.87	-	-	74	-10.13	35	142	H
3	* 2.48351	38.55	RMS	31.9	-20.4	0	50.05	54	-3.95	-	-	35	142	H
4	* 2.48363	39.34	RMS	31.9	-20.4	0	50.84	54	-3.16	-	-	35	142	H

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

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

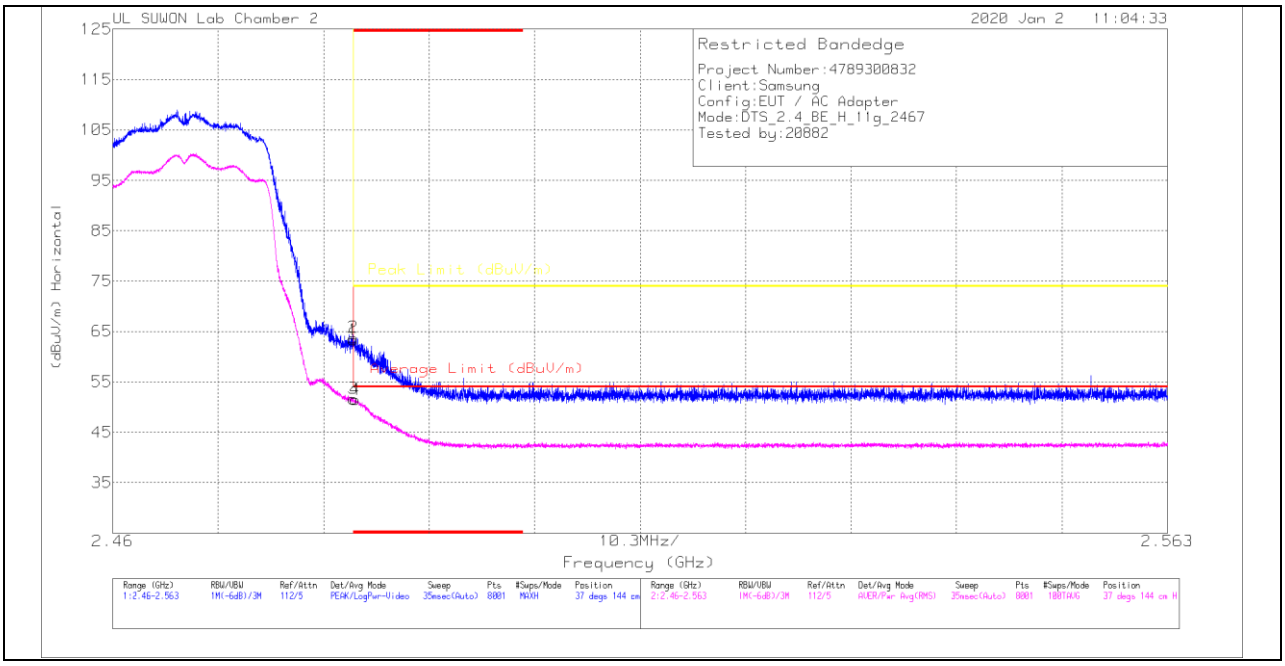
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	10dB_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	44.92	Pk	31.9	-20.4	0	56.42	-	-	74	-17.58	193	100	V
2	* 2.4848	46.63	Pk	31.9	-20.4	0	58.13	-	-	74	-15.87	193	100	V
3	* 2.48351	34.42	RMS	31.9	-20.4	0	45.92	54	-8.08	-	-	193	100	V
4	* 2.48363	34.98	RMS	31.9	-20.4	0	46.48	54	-7.52	-	-	193	100	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_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	51.85	Pk	31.9	-20.4	0	63.35	-	-	74	-10.65	37	144	H
2	* 2.48352	52.28	Pk	31.9	-20.4	0	63.78	-	-	74	-10.22	37	144	H
3	* 2.48351	40.19	RMS	31.9	-20.4	0	51.69	54	-2.31	-	-	37	144	H
4	* 2.48368	39.96	RMS	31.9	-20.4	0	51.46	54	-2.54	-	-	37	144	H

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