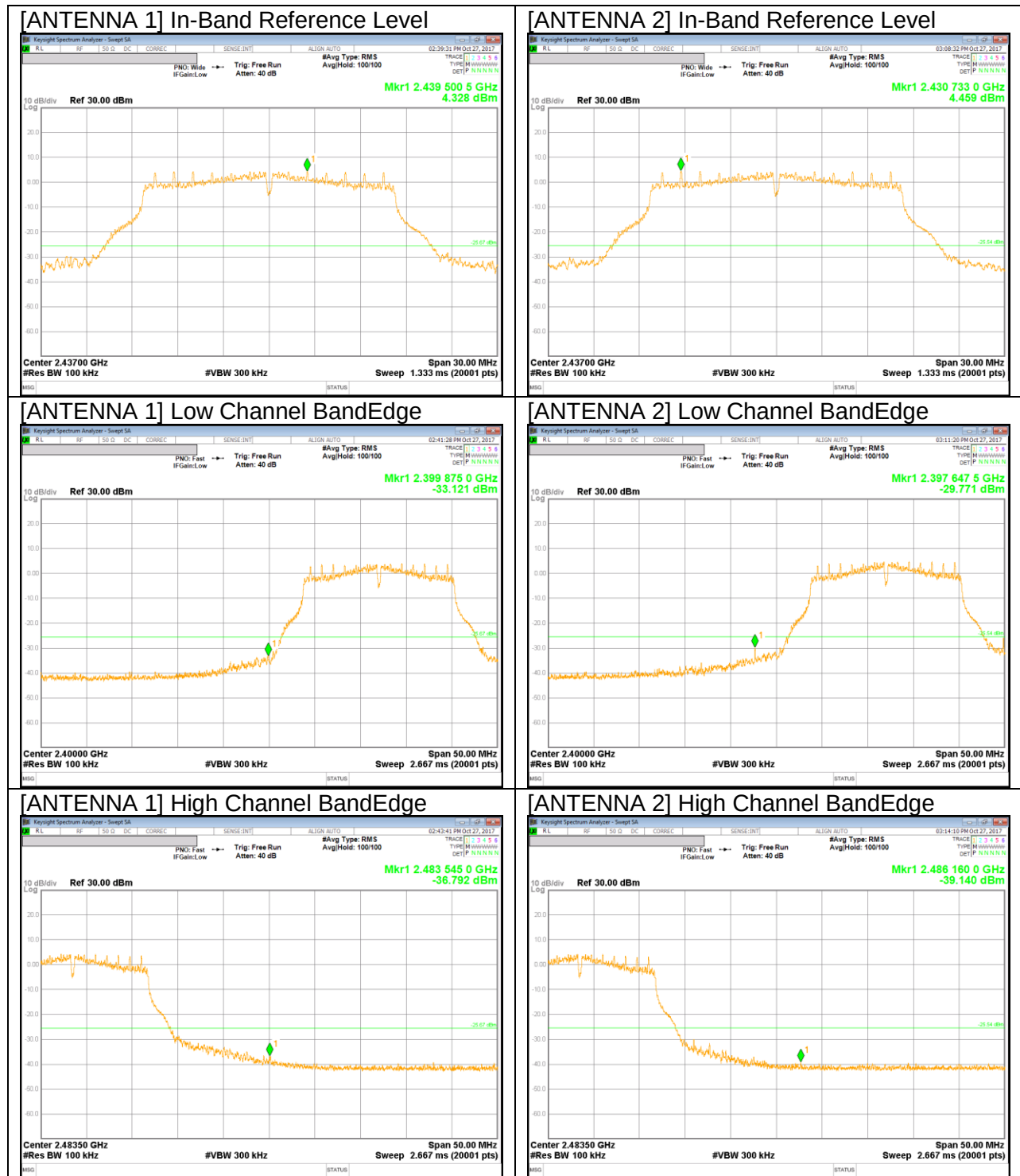
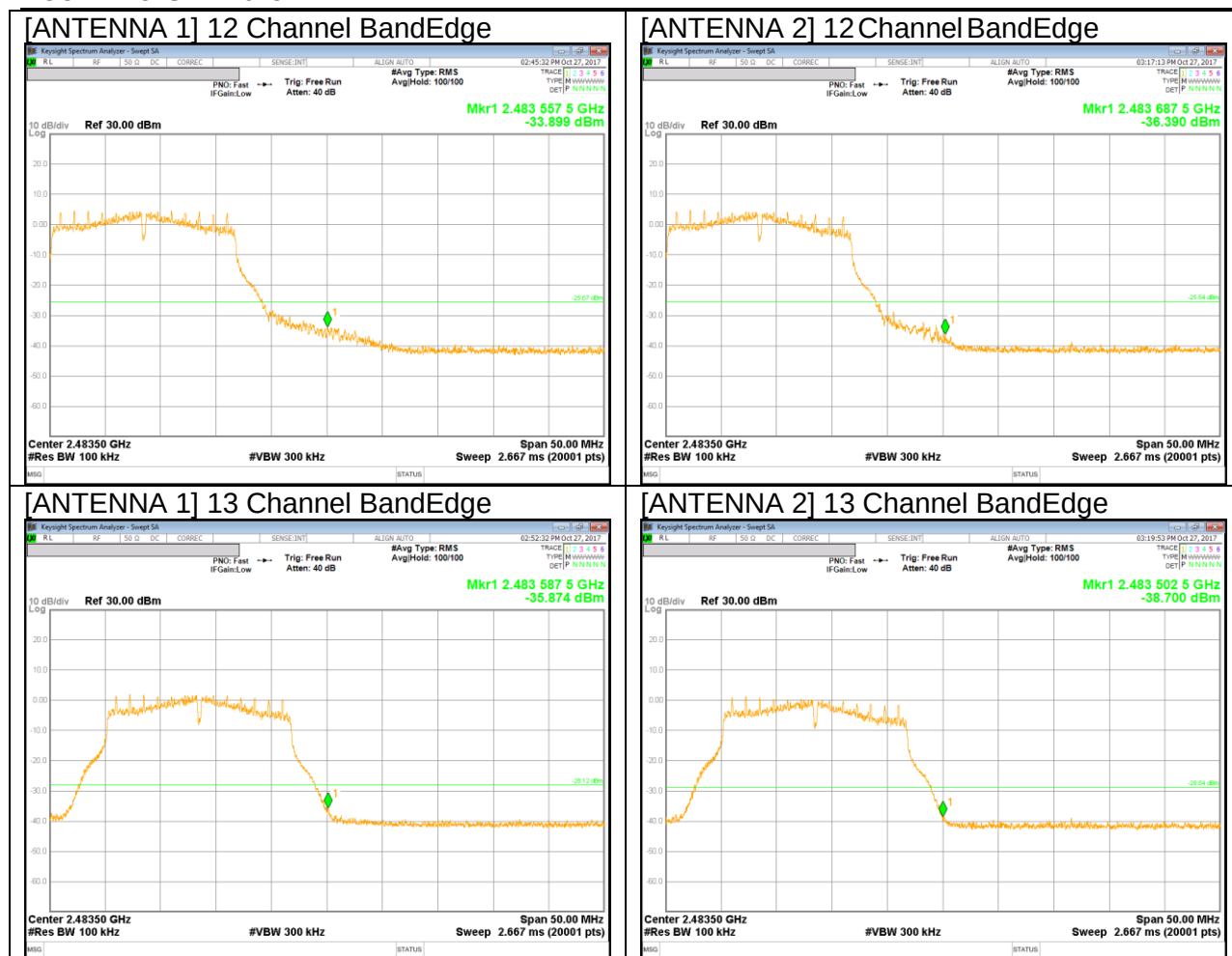
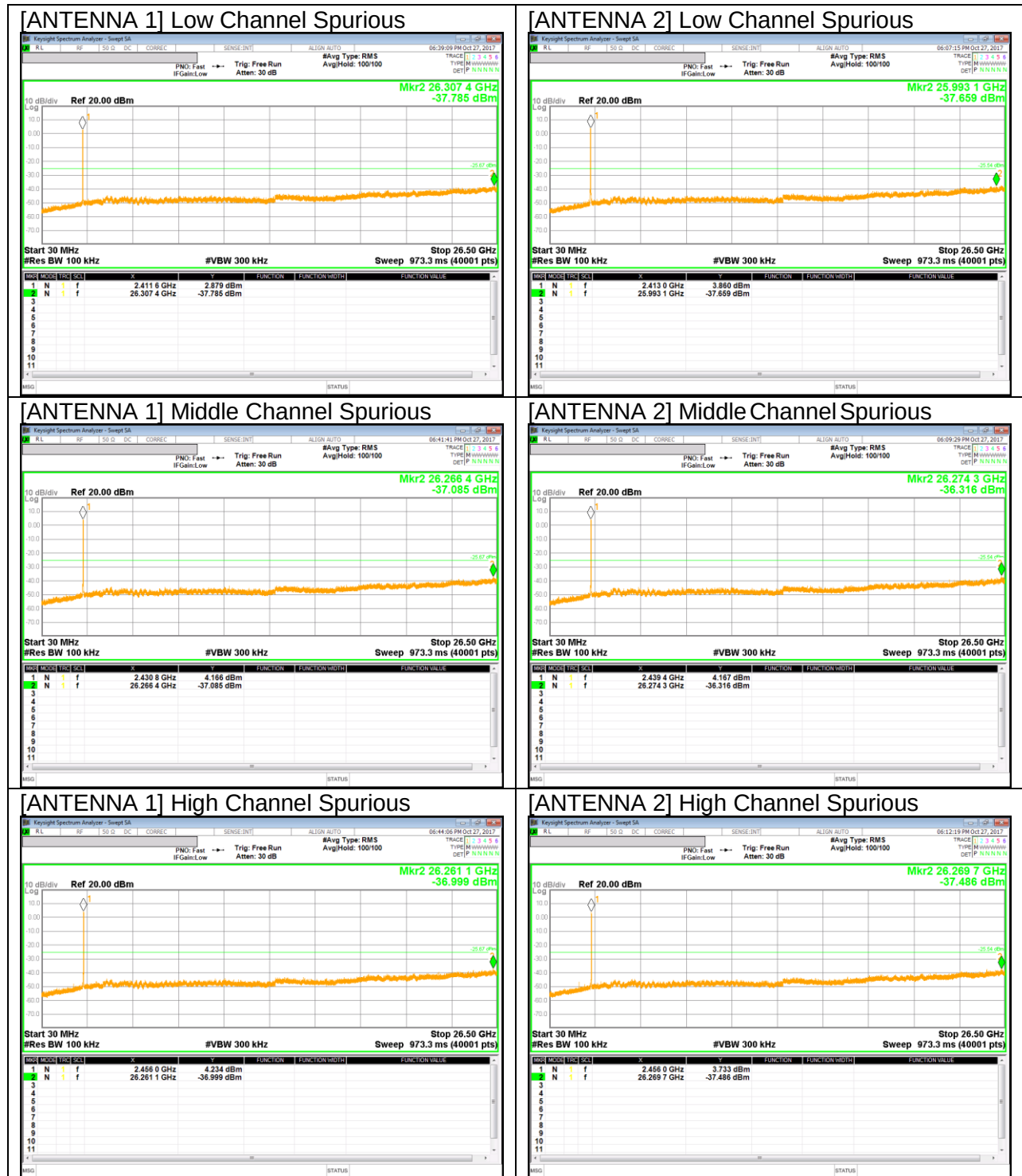
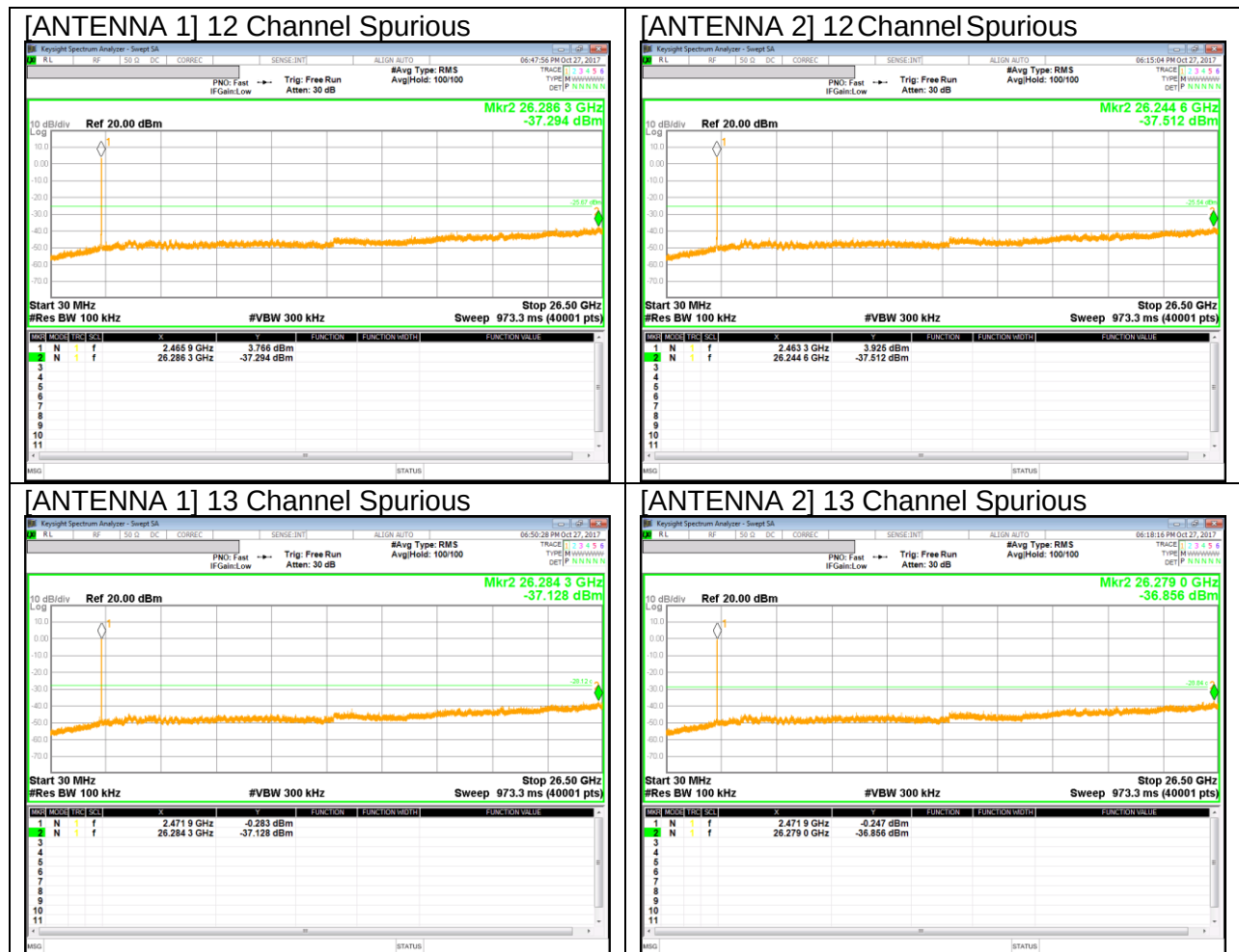


9.4.2. 802.11g MODE IN THE 2.4 GHz BAND

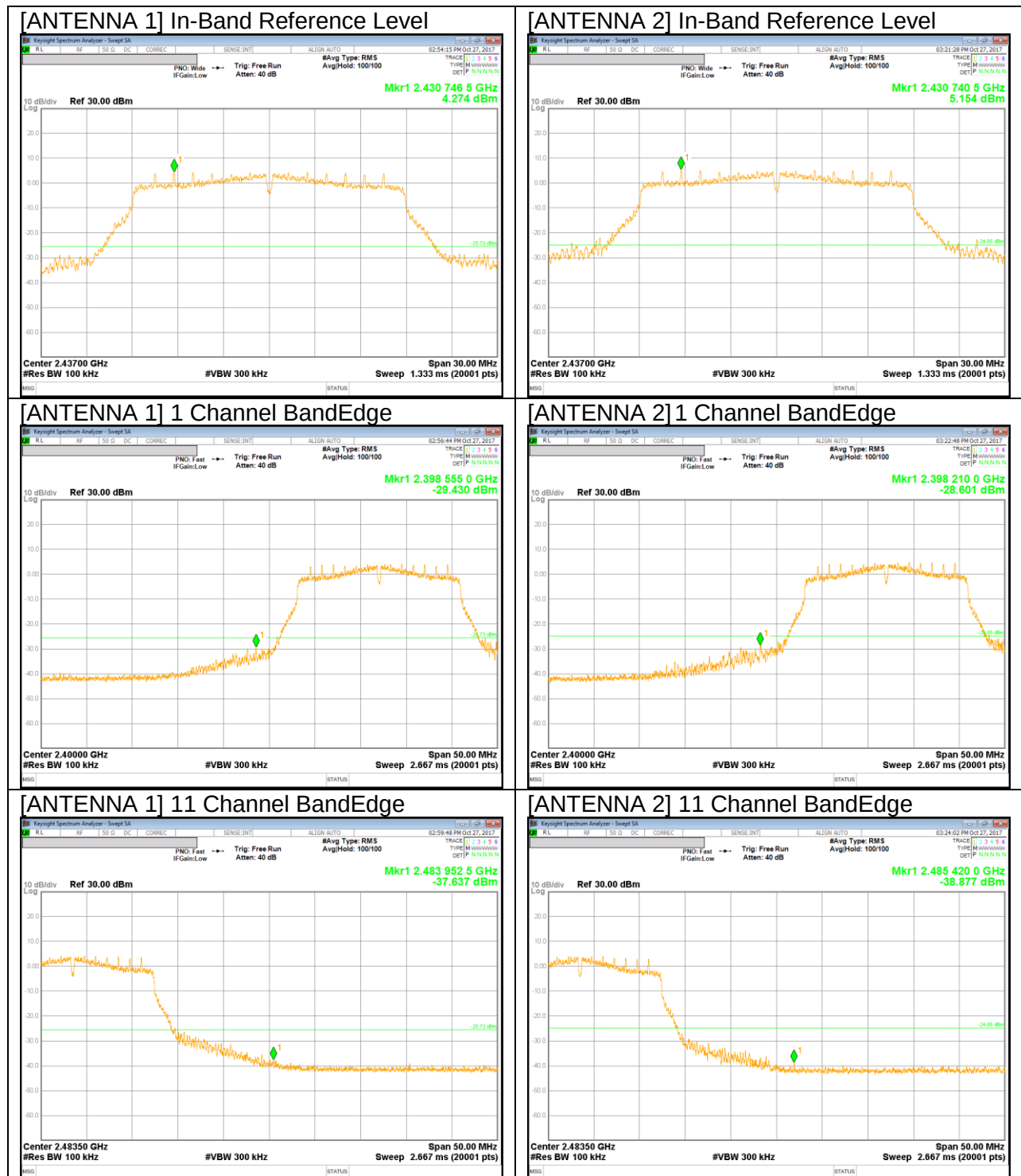


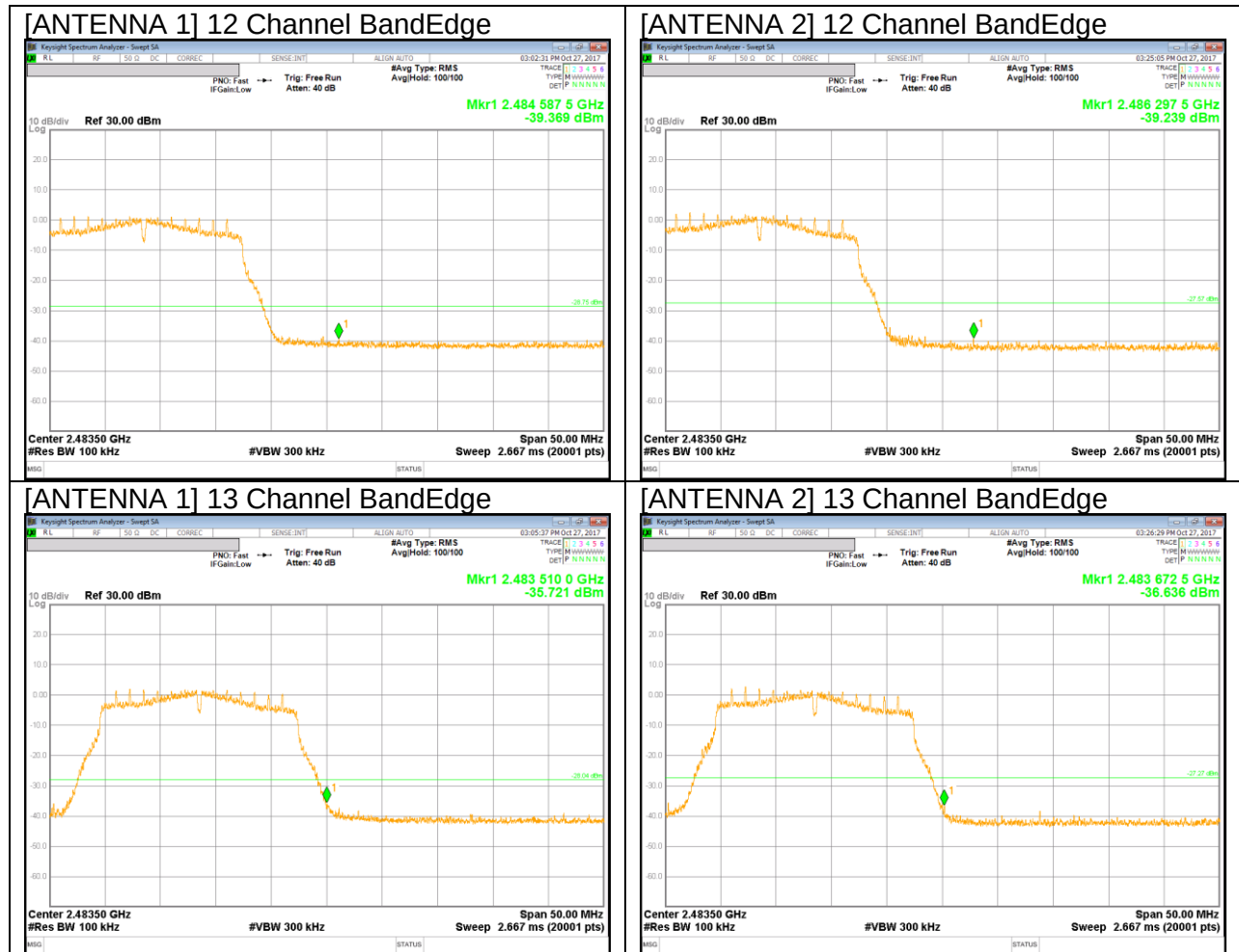


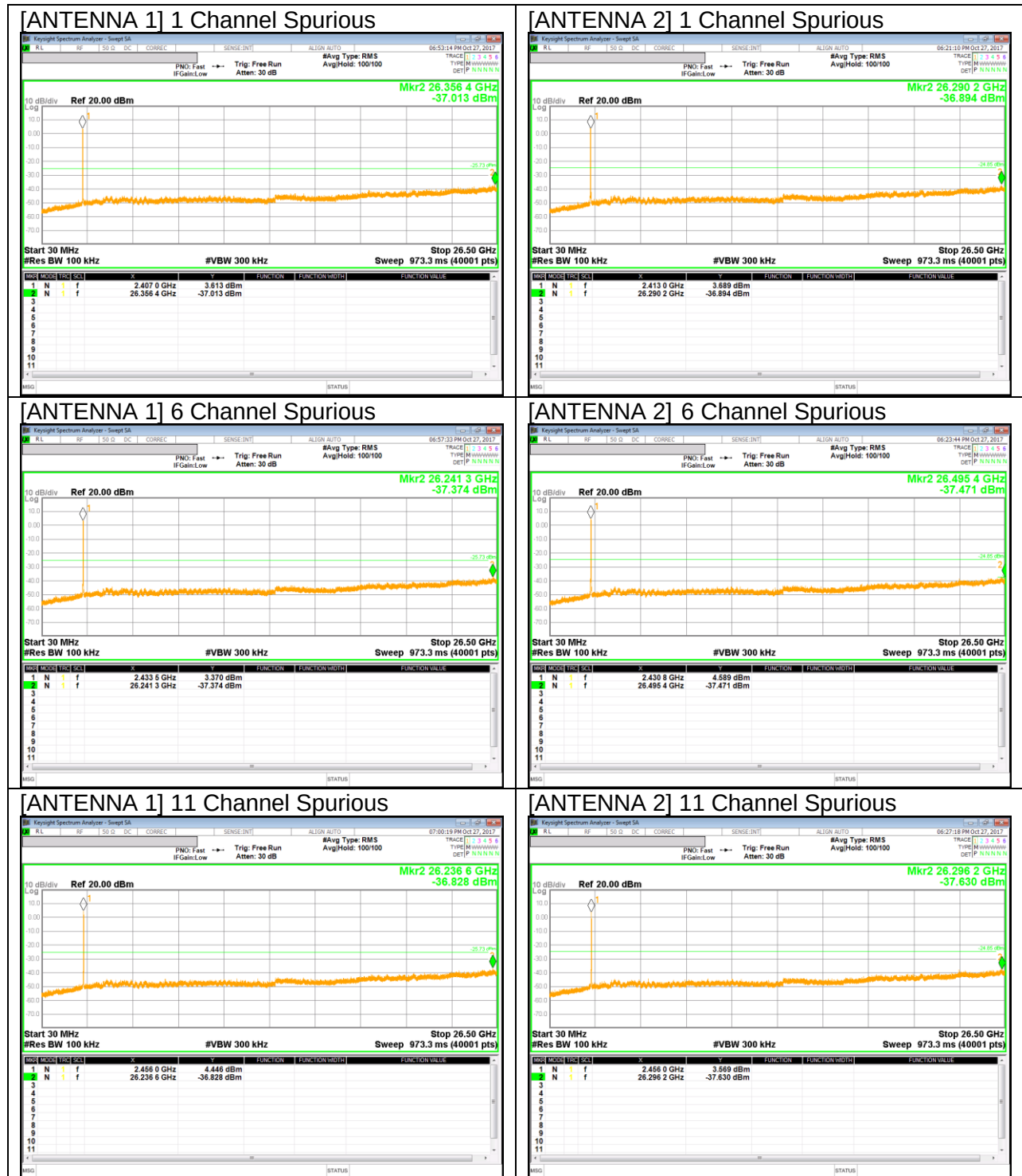


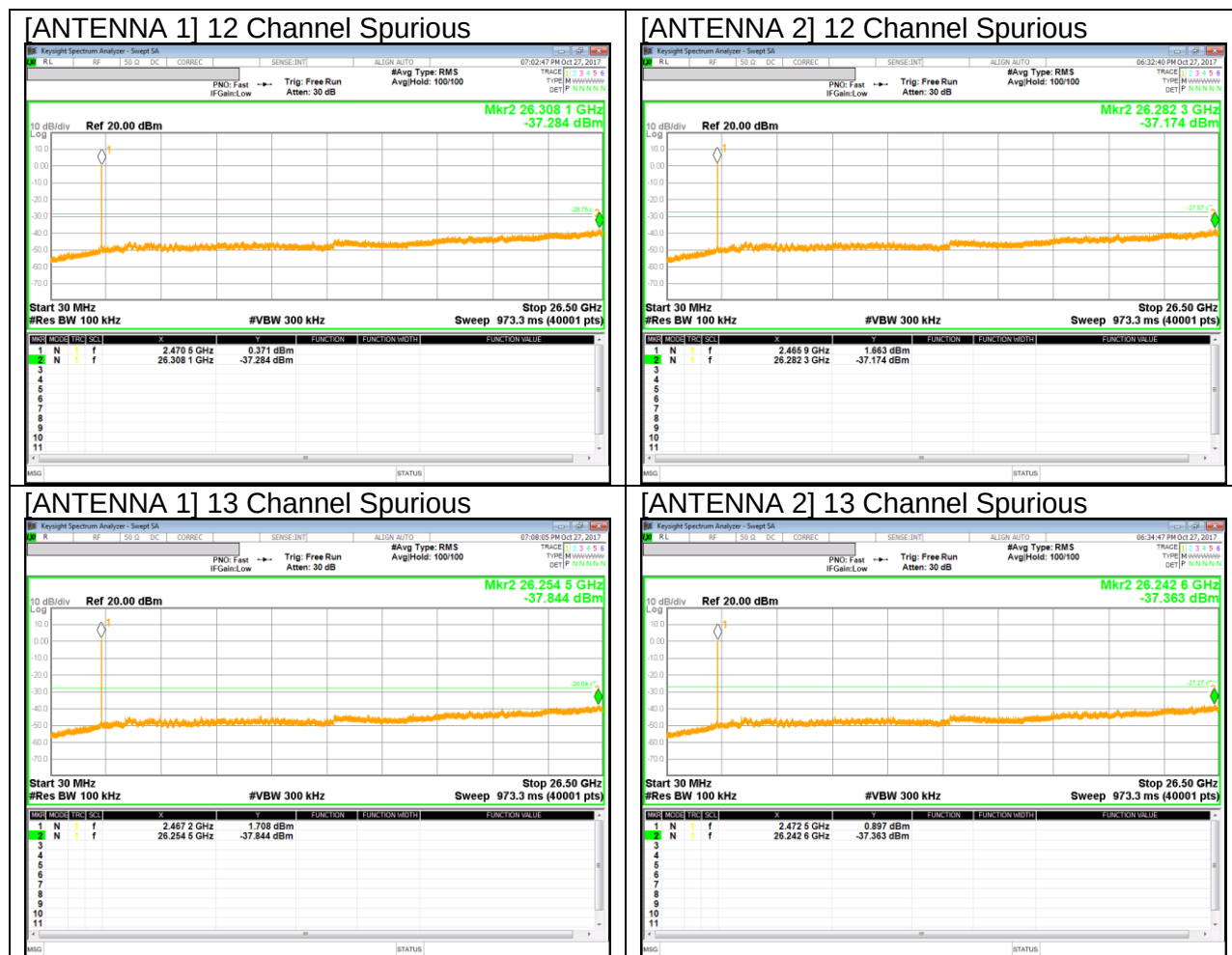


9.4.3. 802.11n HT20 MODE IN THE 2.4 GHz BAND









10. RADIATED TEST RESULTS

10.1. 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 = 0.30dB; N20 mode = 0.32dB.

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.

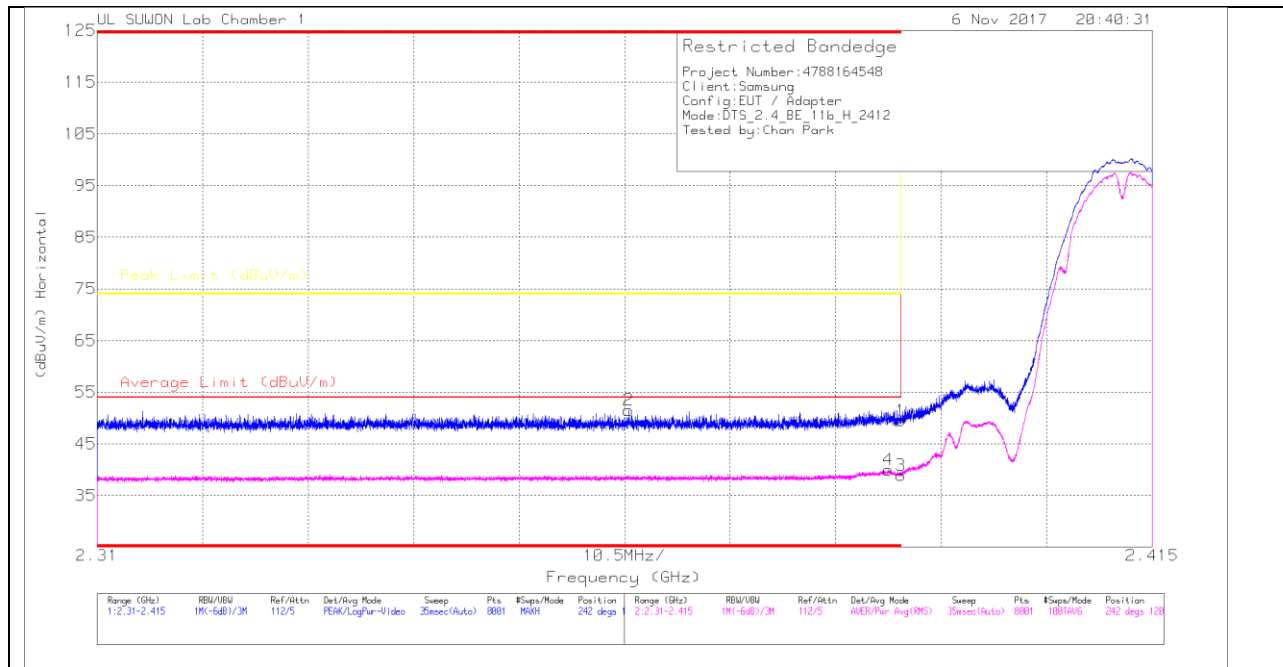
Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open area test site.
Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the one of tests made in an open field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

10.2. TRANSMITTER ABOVE 1 GHz

10.2.1. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND ANTENNA1

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

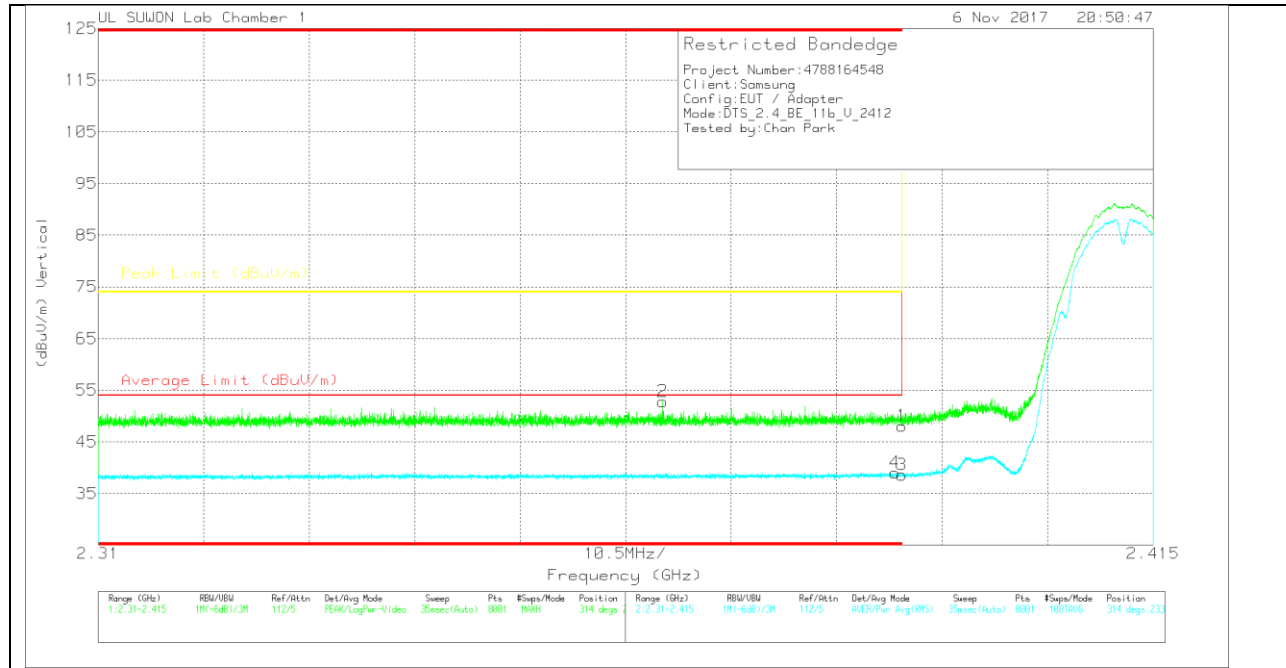
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_00168 717	10dB_ATT(dB)_170809	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.39	43.89	Pk	31.3	-25.7	0	49.49	-	-	74	-24.51	242	120	H
2	* 2.363	46.13	Pk	31.2	-25.8	0	51.53	-	-	74	-22.47	242	120	H
3	* 2.39	33.3	RMS	31.3	-25.7	0	38.9	54	-15.1	-	-	242	120	H
4	* 2.389	34.37	RMS	31.3	-25.7	0	39.97	54	-14.03	-	-	242	120	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	20170531_3117_00168 717	10dB_ATT(dB)_170809	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	42.51	Pk	31.3	-25.7	0	48.11	-	-	74	-25.89	314	233	V
2	* 2.366	47.43	Pk	31.2	-25.8	0	52.83	-	-	74	-21.17	314	233	V
3	* 2.39	33.02	RMS	31.3	-25.7	0	38.62	54	-15.38	-	-	314	233	V
4	* 2.389	33.47	RMS	31.3	-25.7	0	39.07	54	-14.93	-	-	314	233	V

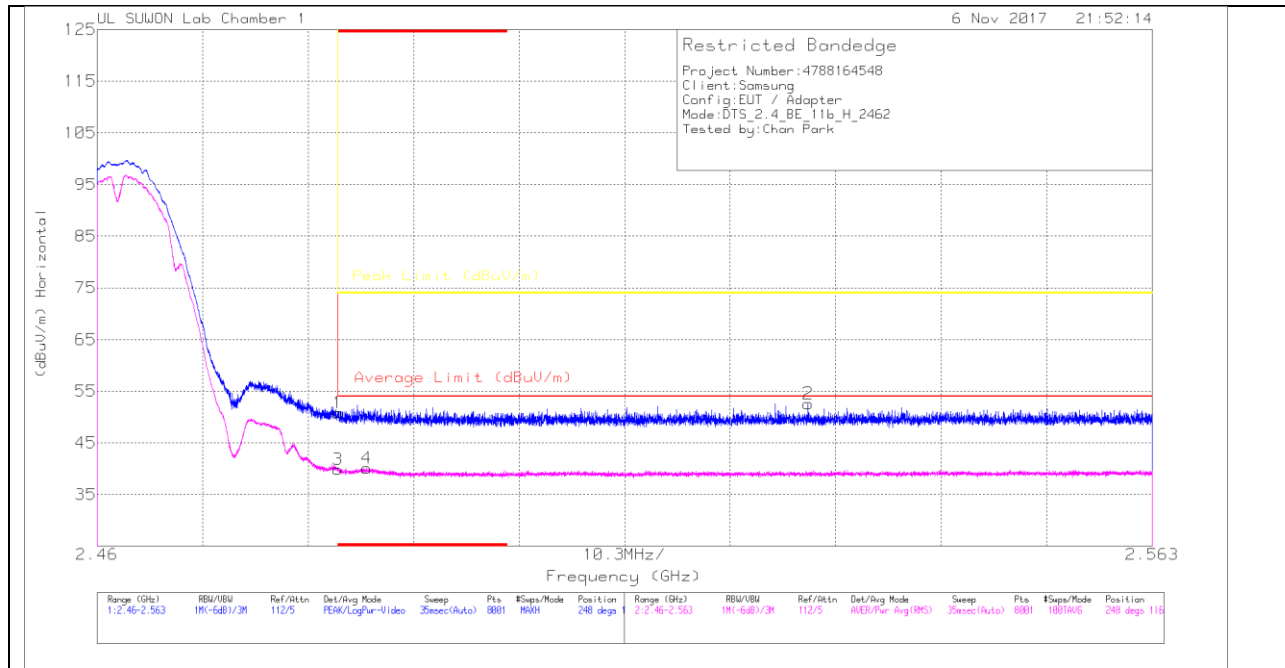
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

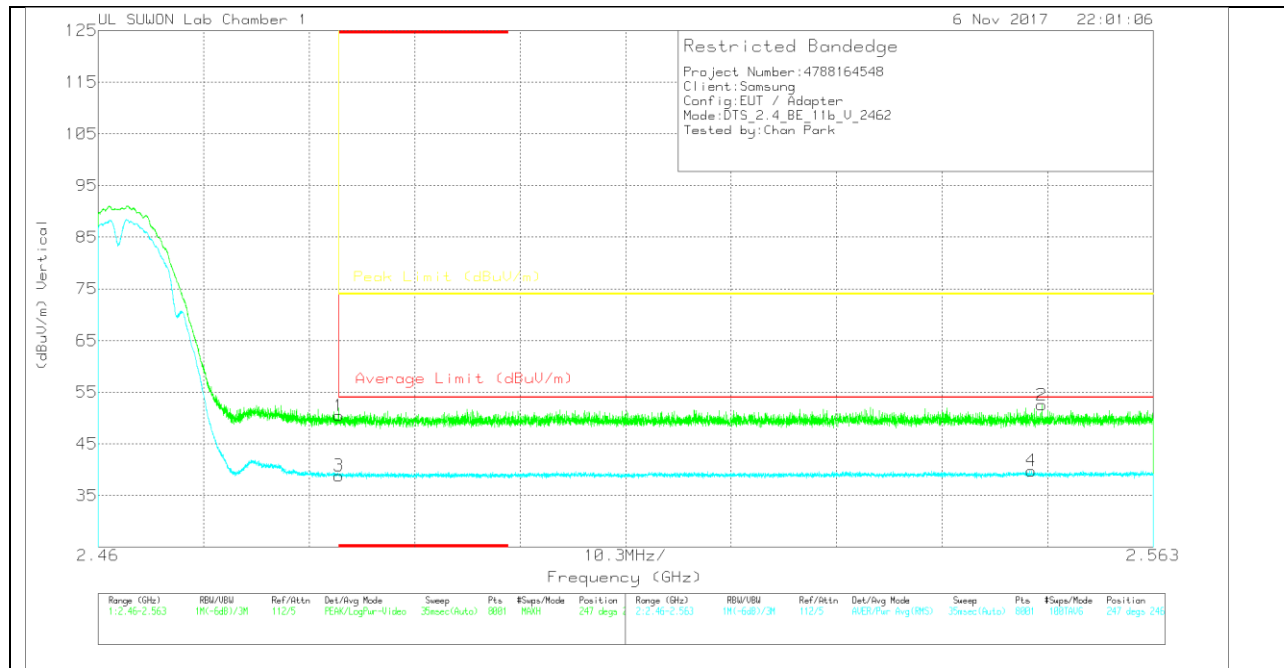
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_00168 717	10dB_ATT(dB)_170809	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.484	44.74	Pk	31.6	-25.5	0	50.84	-	-	74	-23.16	248	116	H
2	2.529	46.19	Pk	31.7	-25.3	0	52.59	-	-	74	-21.41	248	116	H
3	* 2.484	33.8	RMS	31.6	-25.5	0	39.9	54	-14.1	-	-	248	116	H
4	* 2.486	33.91	RMS	31.6	-25.4	0	40.11	54	-13.89	-	-	248	116	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	20170531_3117_00168 717	10dB_ATT(dB)_170809 -25.5	DC Corr (dB) 0	Corrected Reading (dBuV/m) 50.48	Average Limit (dBuV/m) -	Margin (dB) -	Peak Limit (dBuV/m) 74	Pk Margin (dB) -23.52	Altitude (Degs) 247	Height (cm) 246	Polarity V
1	* 2.484	44.38	Pk	31.6	-25.5	0	50.48	-	-	74	-23.52	247	246	V
2	2.552	46.16	Pk	31.7	-25.3	0	52.56	-	-	74	-21.44	247	246	V
3	* 2.484	32.75	RMS	31.6	-25.5	0	38.85	54	-15.15	-	-	247	246	V
4	2.551	33.42	RMS	31.7	-25.3	0	39.82	54	-14.18	-	-	247	246	V

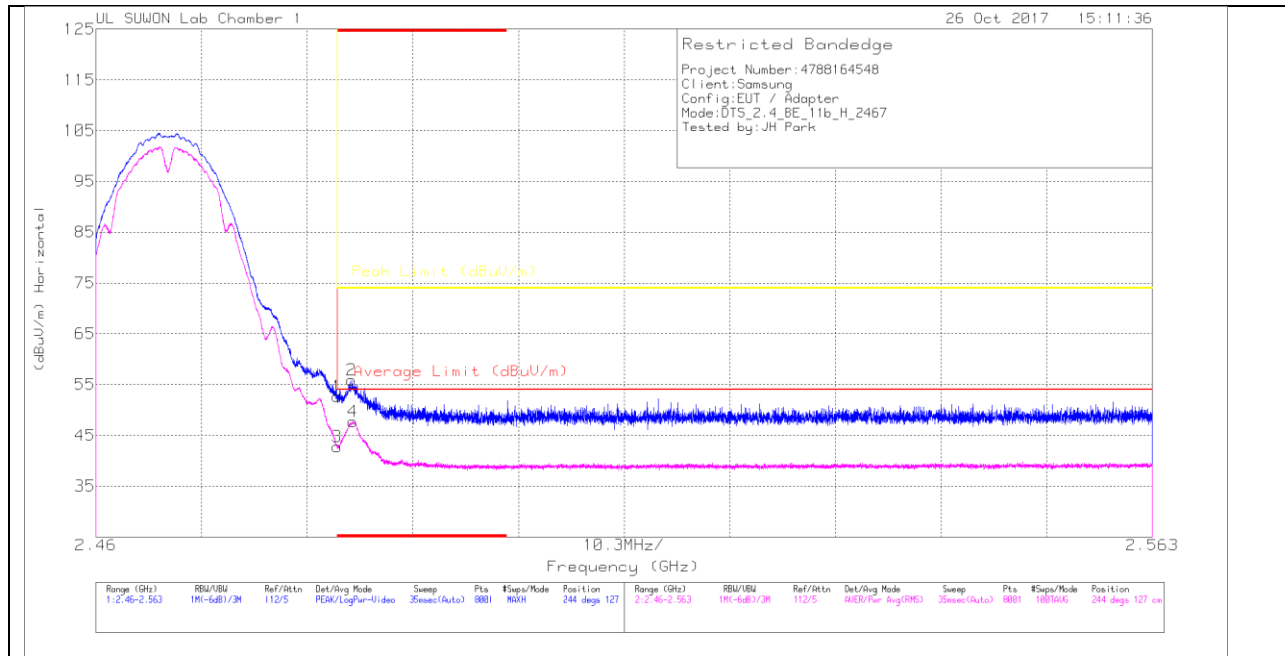
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (12 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

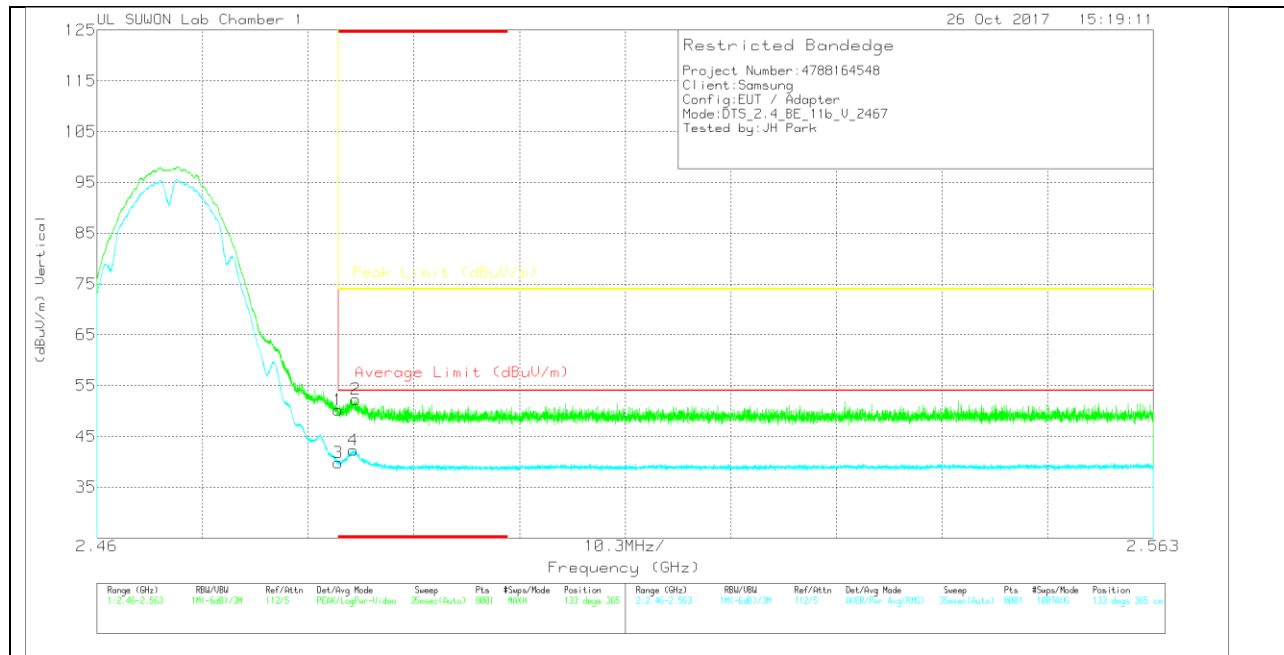
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_00168 717	10dB_ATT(dB)_170809	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	46.57	Pk	31.6	-25.5	0	52.67	-	-	74	-21.33	244	127	H
2	* 2.485	49.78	Pk	31.6	-25.5	0	55.88	-	-	74	-18.12	244	127	H
3	* 2.484	36.66	RMS	31.6	-25.5	0	42.76	54	-11.24	-	-	244	127	H
4	* 2.485	41.62	RMS	31.6	-25.5	0	47.72	54	-6.28	-	-	244	127	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	20170531_3117_00168 717	10dB_ATT(dB)_170809	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	44.07	Pk	31.6	-25.5	0	50.17	-	-	74	-23.83	133	365	V
2	* 2.485	46.18	Pk	31.6	-25.5	0	52.28	-	-	74	-21.72	133	365	V
3	* 2.484	33.67	RMS	31.6	-25.5	0	39.77	54	-14.23	-	-	133	365	V
4	* 2.485	36.22	RMS	31.6	-25.5	0	42.32	54	-11.68	-	-	133	365	V

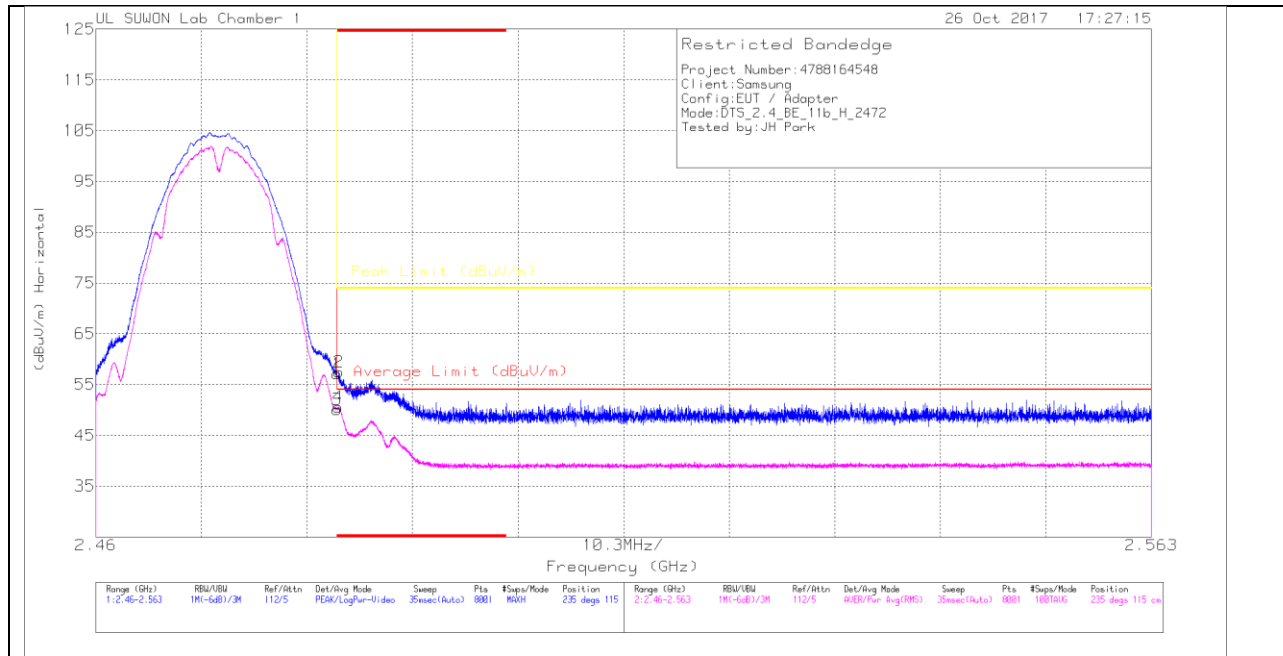
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (13 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

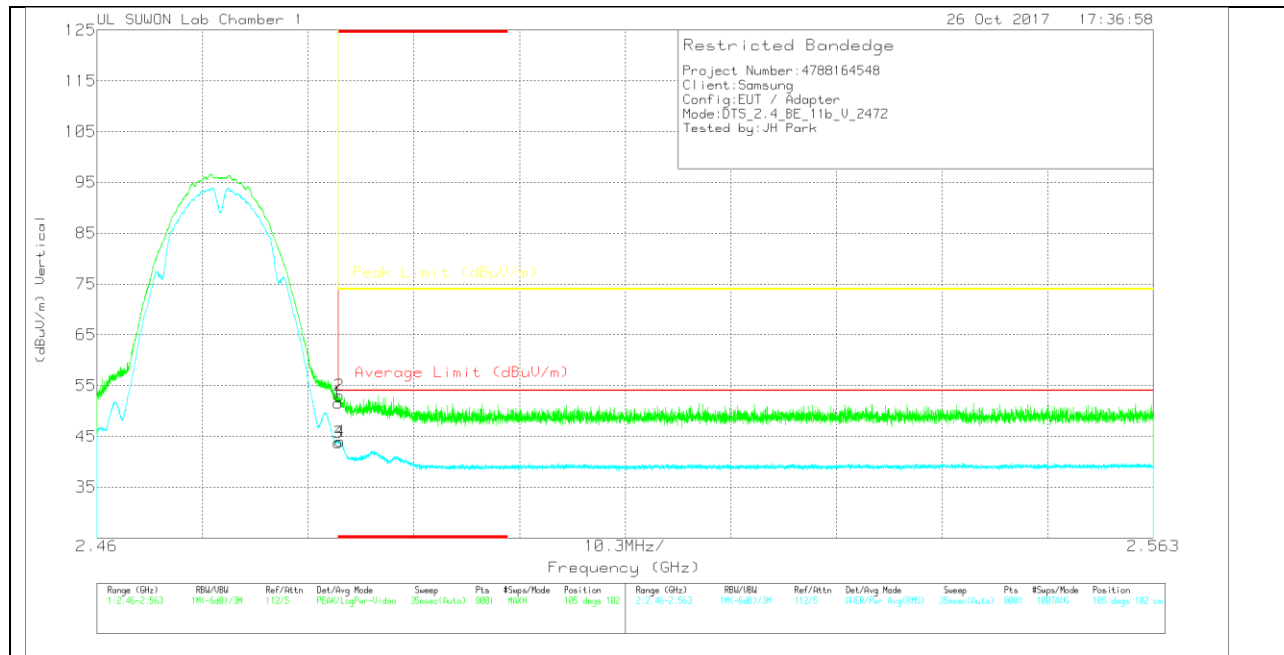
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_00168 717	10dB_ATT(dB)_170809	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.484	51.02	Pk		-25.5	0	57.12	-	-	74	-16.88	235	115	H
2	* 2.484	51.35	Pk		-25.5	0	57.45	-	-	74	-16.55	235	115	H
3	* 2.484	44.03	RMS		-25.5	0	50.13	54	-3.87	-	-	235	115	H
4	* 2.484	44.51	RMS		-25.5	0	50.61	54	-3.39	-	-	235	115	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	20170531_3117_00168 717	10dB_ATT(dB)_170809	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	45.48	Pk	31.6	-25.5	0	51.58	-	-	74	-22.42	105	102	V
2	* 2.484	46.93	Pk	31.6	-25.5	0	53.03	-	-	74	-20.97	105	102	V
3	* 2.484	37.7	RMS	31.6	-25.5	0	43.8	54	-10.2	-	-	105	102	V
4	* 2.484	37.91	RMS	31.6	-25.5	0	44.01	54	-9.99	-	-	105	102	V

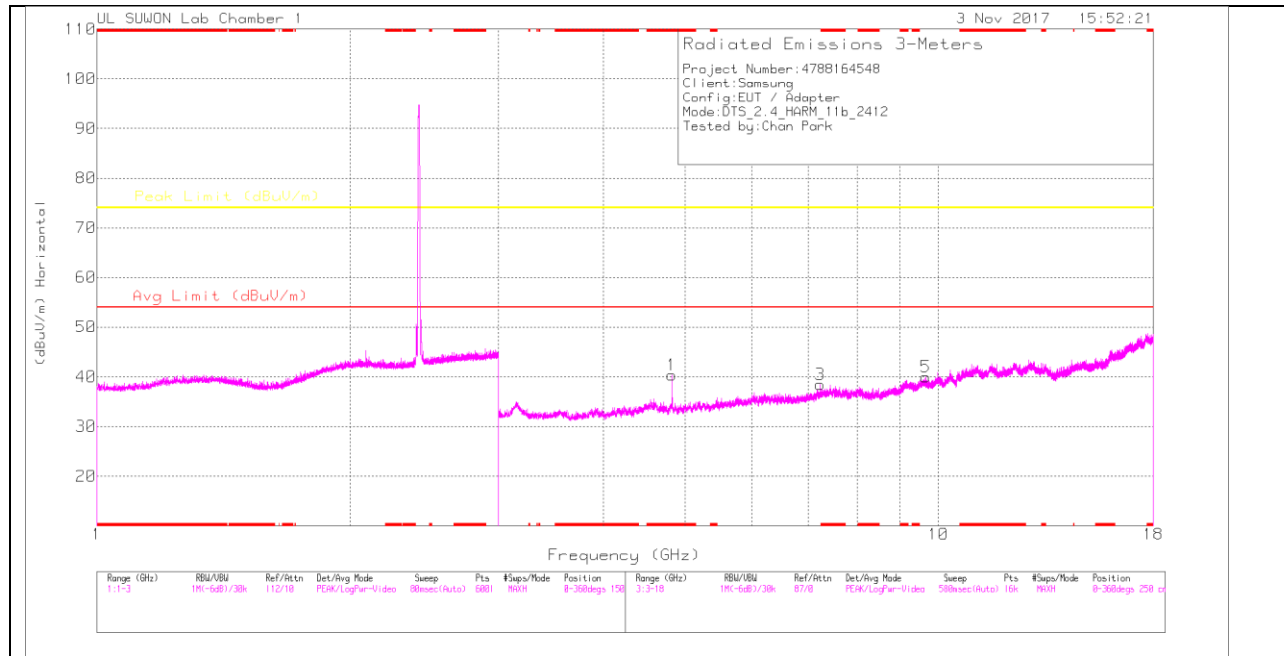
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

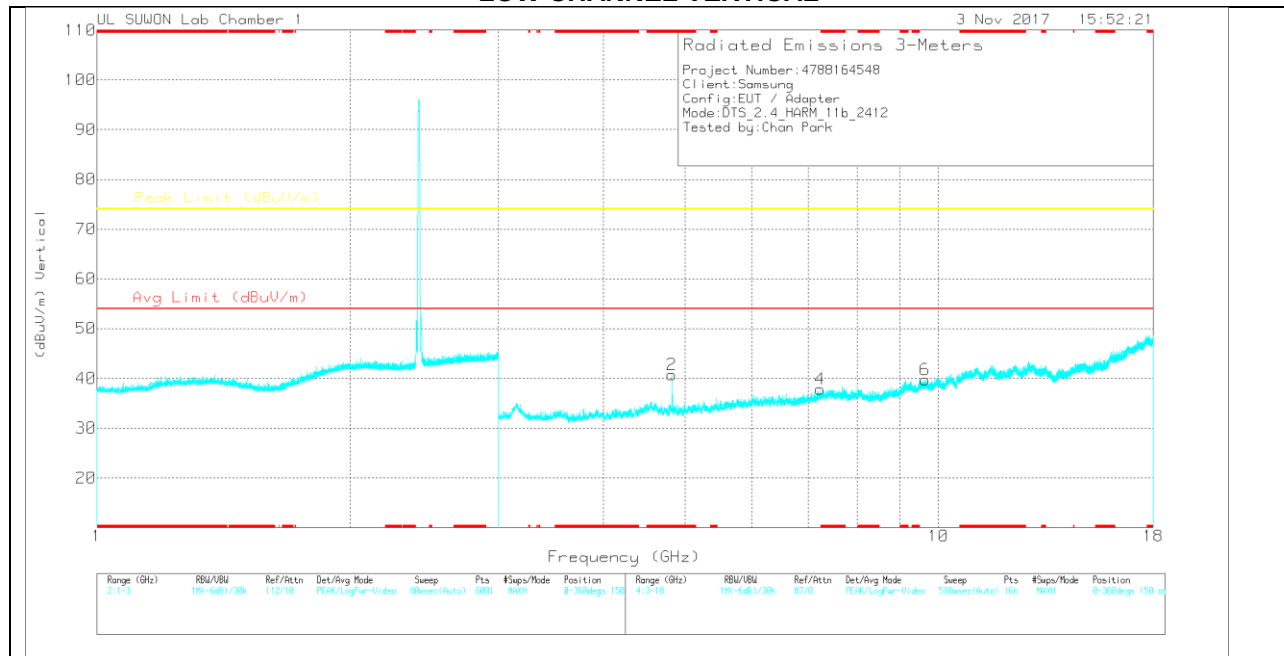
RMS - RMS detection

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	20170531_3117_001687_17	3GHz_HP(dB)_170809	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	38.12	PK	33.8	-31.6	0	40.32	-	-	74	-33.68	0-360	150	H
3	7.236	30.62	PK	35.9	-28	0	38.52	-	-	74	-35.48	0-360	250	H
5	9.652	26.91	PK	36.8	-23.7	0	40.01	-	-	74	-33.99	0-360	250	H
2	* 4.823	38.59	PK	33.8	-31.6	0	40.79	-	-	74	-33.21	0-360	150	V
4	7.236	29.93	PK	35.9	-28	0	37.83	-	-	74	-36.17	0-360	150	V
6	9.644	26.5	PK	36.8	-23.6	0	39.7	-	-	74	-34.3	0-360	150	V

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

PK – Peak detector

Radiated Emissions

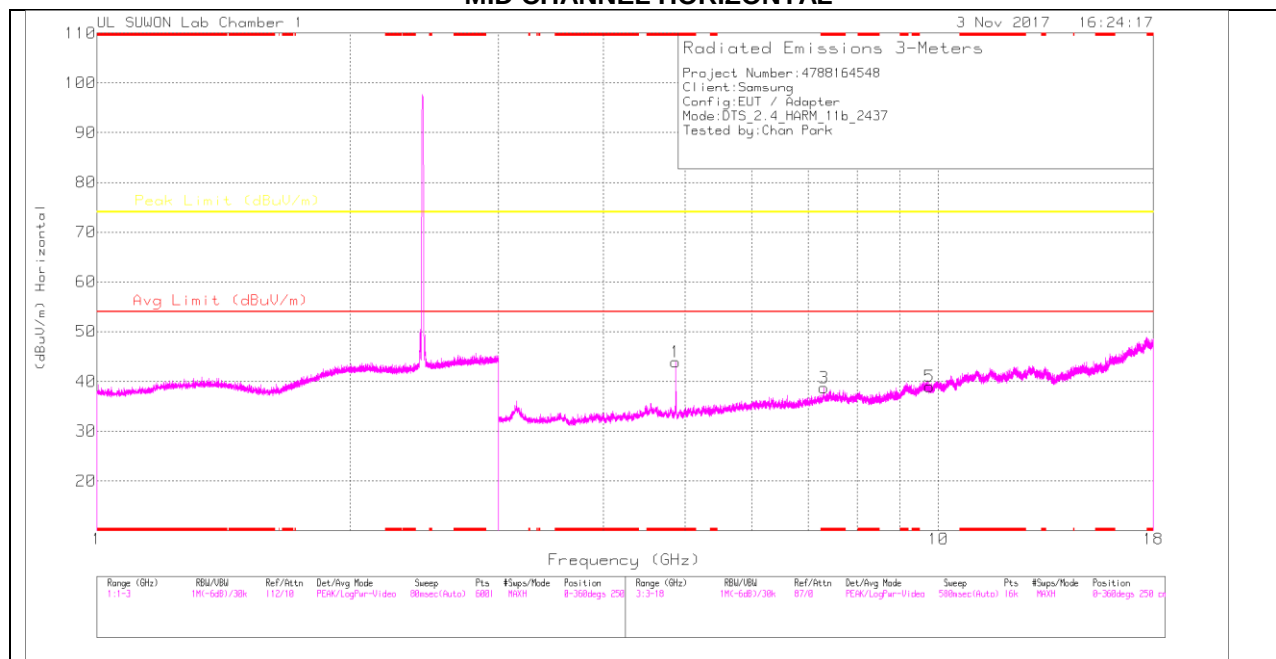
Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_00168717	3GHz_HP(dB)_170809	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.824	44.13	PK2	33.8	-31.6	0	46.33	-	-	74	-27.67	158	218	H
* 4.824	37.23	MAv1	33.8	-31.6	0	39.43	54	-14.57	-	-	158	218	H
* 4.824	44.87	PK2	33.8	-31.6	0	47.07	-	-	74	-26.93	302	116	V
* 4.824	38.75	MAv1	33.8	-31.6	0	40.95	54	-13.05	-	-	302	116	V

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

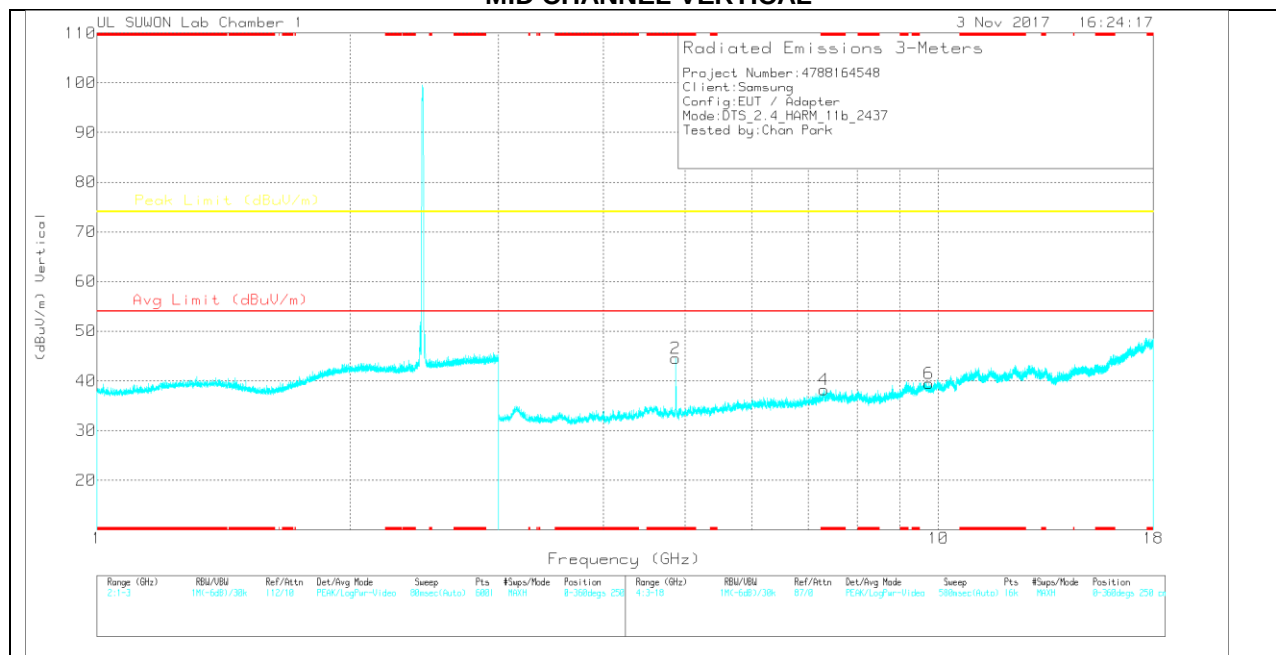
PK2 - KDB558074 Method: Maximum Peak

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	20170531_3117_001687_17	3GHz_HP(dB)_170809	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	41.77	PK	33.8	-31.7	0	43.87	-	-	74	-30.13	0-360	250	H
3	* 7.312	30.47	PK	35.9	-27.6	0	38.77	-	-	74	-35.23	0-360	250	H
5	9.751	26.27	PK	36.9	-24.2	0	38.97	-	-	74	-35.03	0-360	150	H
2	* 4.874	42.39	PK	33.8	-31.7	0	44.49	-	-	74	-29.51	0-360	250	V
4	* 7.308	30.04	PK	35.9	-27.7	0	38.24	-	-	74	-35.76	0-360	250	V
6	9.743	26.81	PK	36.9	-24.2	0	39.51	-	-	74	-34.49	0-360	250	V

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

PK – Peak detector

Radiated Emissions

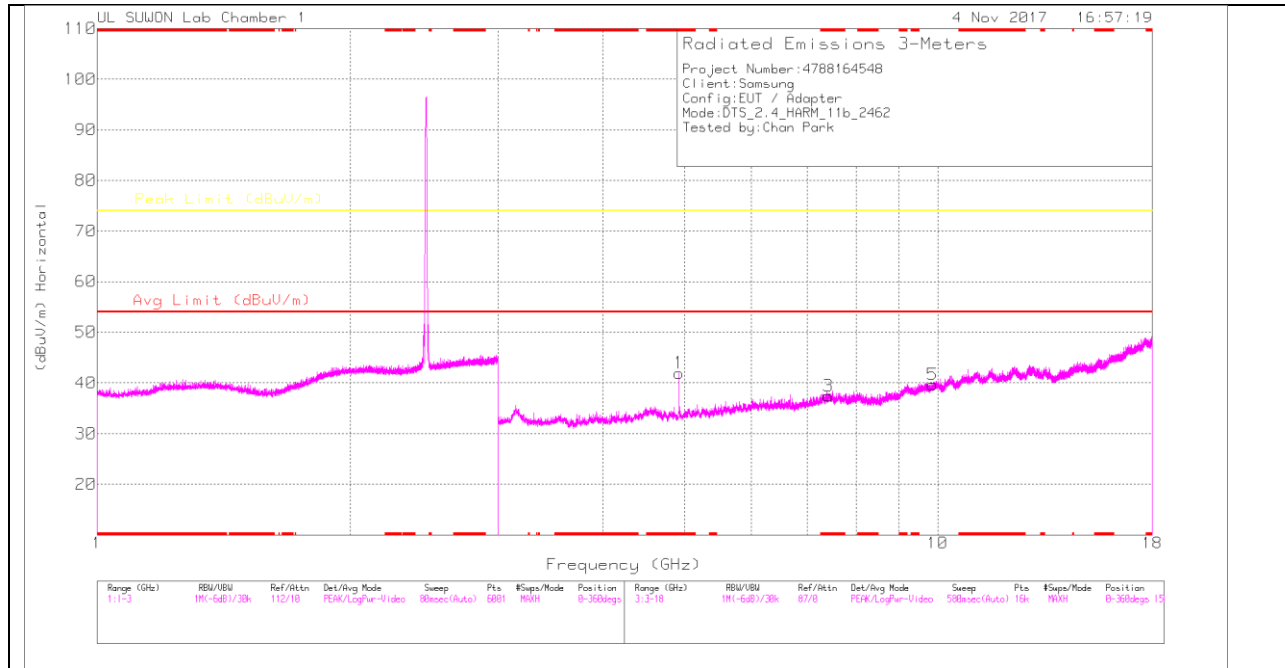
Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_00168717	3GHz_HP(dB)_170809	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.874	47.08	PK2	33.8	-31.7	0	49.18	-	-	74	-24.82	160	119	H
* 4.874	41.96	MAv1	33.8	-31.7	0	44.06	54	-9.94	-	-	160	119	H
* 4.874	47.07	PK2	33.8	-31.7	0	49.17	-	-	74	-24.83	305	127	V
* 4.874	42.26	MAv1	33.8	-31.7	0	44.36	54	-9.64	-	-	305	127	V

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

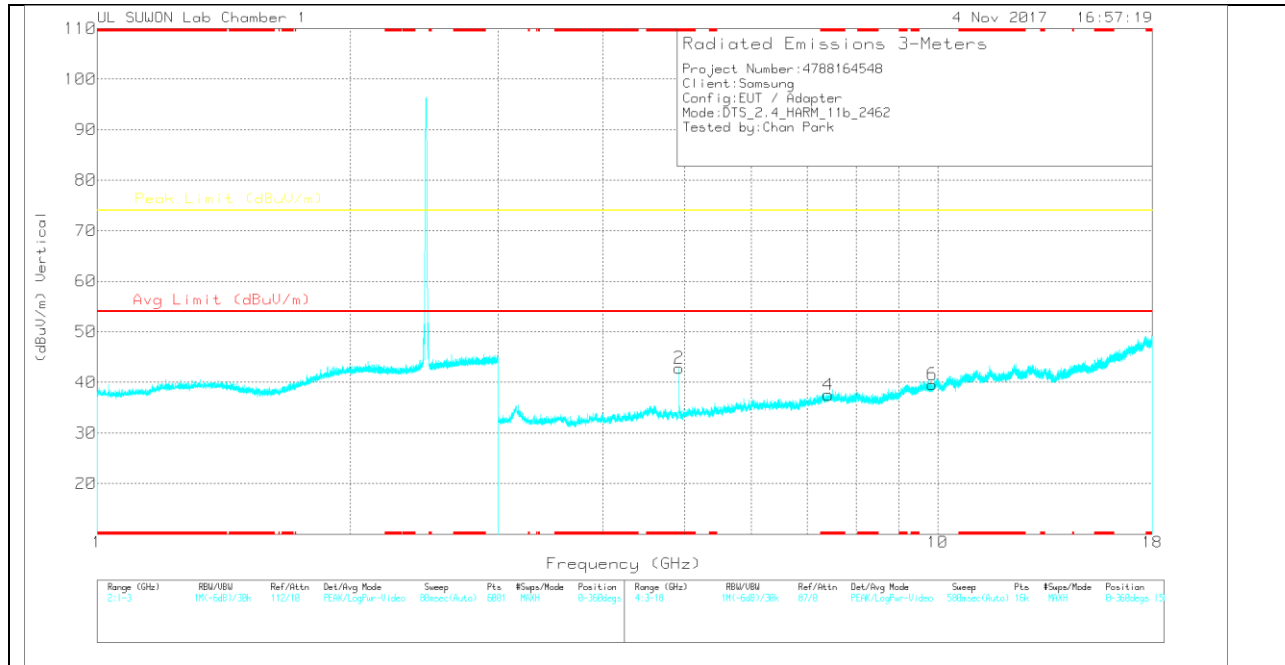
PK2 - KDB558074 Method: Maximum Peak

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	20170531_3117_001687_17	3GHz_HP(dB)_170809	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	39.96	PK	33.8	-31.8	0	41.96	-	-	74	-32.04	0-360	250	H
3	* 7.41	28.61	PK	35.9	-27.1	0	37.41	-	-	74	-36.59	0-360	250	H
5	9.861	25.87	PK	37	-23.2	0	39.67	-	-	74	-34.33	0-360	250	H
2	* 4.924	40.83	PK	33.8	-31.8	0	42.83	-	-	74	-31.17	0-360	250	V
4	* 7.411	28.72	PK	35.9	-27.1	0	37.52	-	-	74	-36.48	0-360	250	V
6	9.859	25.9	PK	37	-23.3	0	39.6	-	-	74	-34.4	0-360	250	V

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

PK – Peak detector

Radiated Emissions

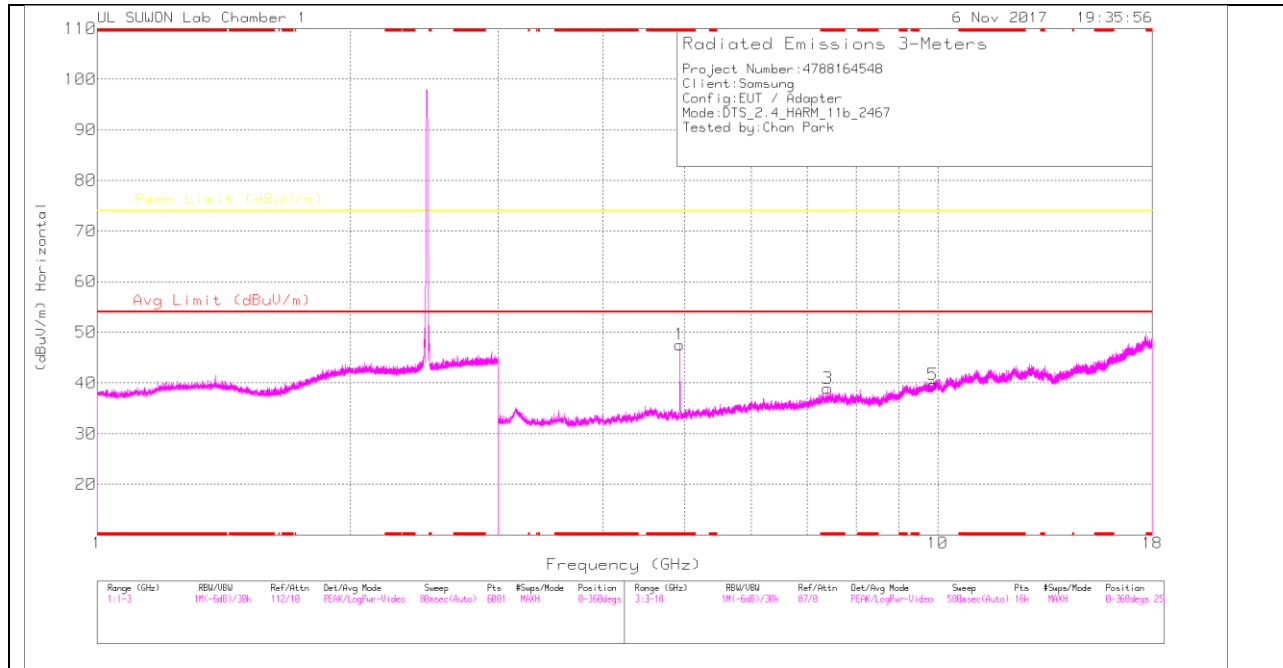
Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_00168717	3GHz_HP(dB)_170809	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.924	46.56	PK2	33.8	-31.8	0	48.56	-	-	74	-25.44	206	102	H
* 4.924	40.26	MAV1	33.8	-31.8	0	42.26	54	-11.74	-	-	206	102	H
* 4.924	46.99	PK2	33.8	-31.8	0	48.99	-	-	74	-25.01	157	100	V
* 4.924	41.92	MAV1	33.8	-31.8	0	43.92	54	-10.08	-	-	157	100	V

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

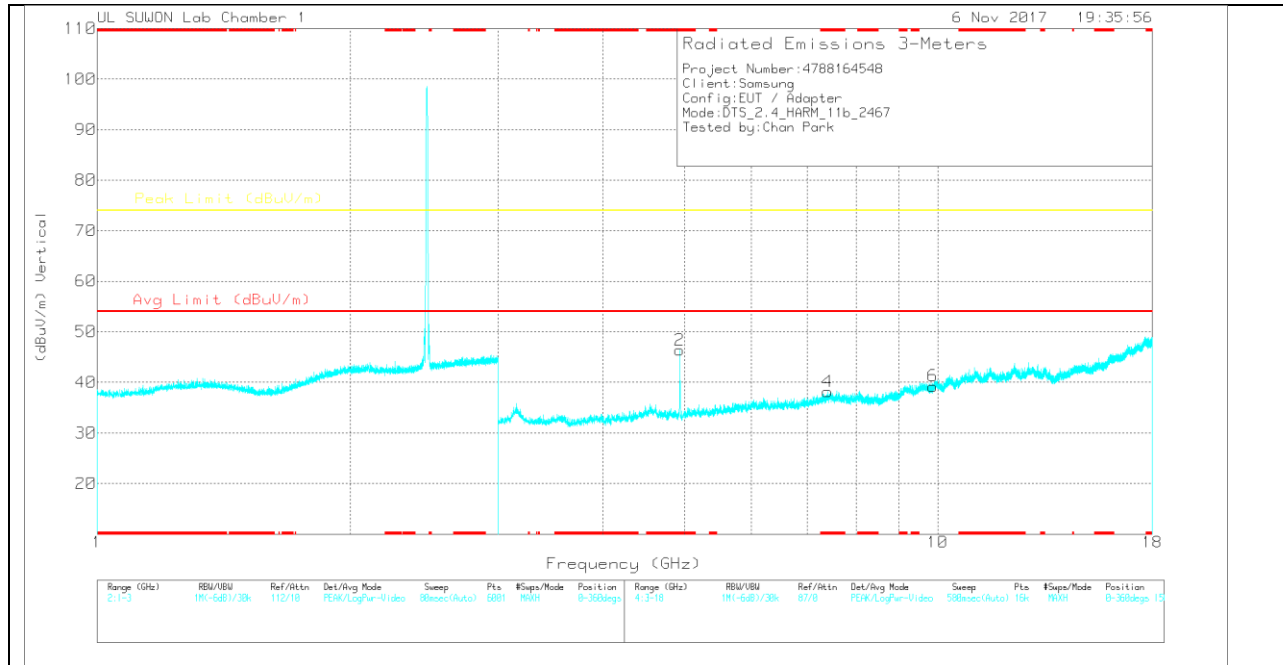
PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

12 CHANNEL HORIZONTAL



12 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.

12 CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_001687_17	3GHz_HP(dB)_170809	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	* 4.934	45.57	Avg	33.8	-31.8	0	47.57	-	-	74	-26.43	0-360	250	H
3	* 7.398	30.11	Avg	35.9	-27.1	0	38.91	-	-	74	-35.09	0-360	250	H
5	9.869	25.74	Avg	37	-23.1	0	39.64	-	-	74	-34.36	0-360	250	H
2	* 4.934	44.4	Avg	33.8	-31.8	0	46.4	-	-	74	-27.6	0-360	150	V
4	* 7.398	29.37	Avg	35.9	-27.1	0	38.17	-	-	74	-35.83	0-360	150	V
6	9.864	25.44	Avg	37	-23.2	0	39.24	-	-	74	-34.76	0-360	250	V

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

Avg - Video bandwidth < Resolution bandwidth

Radiated Emissions

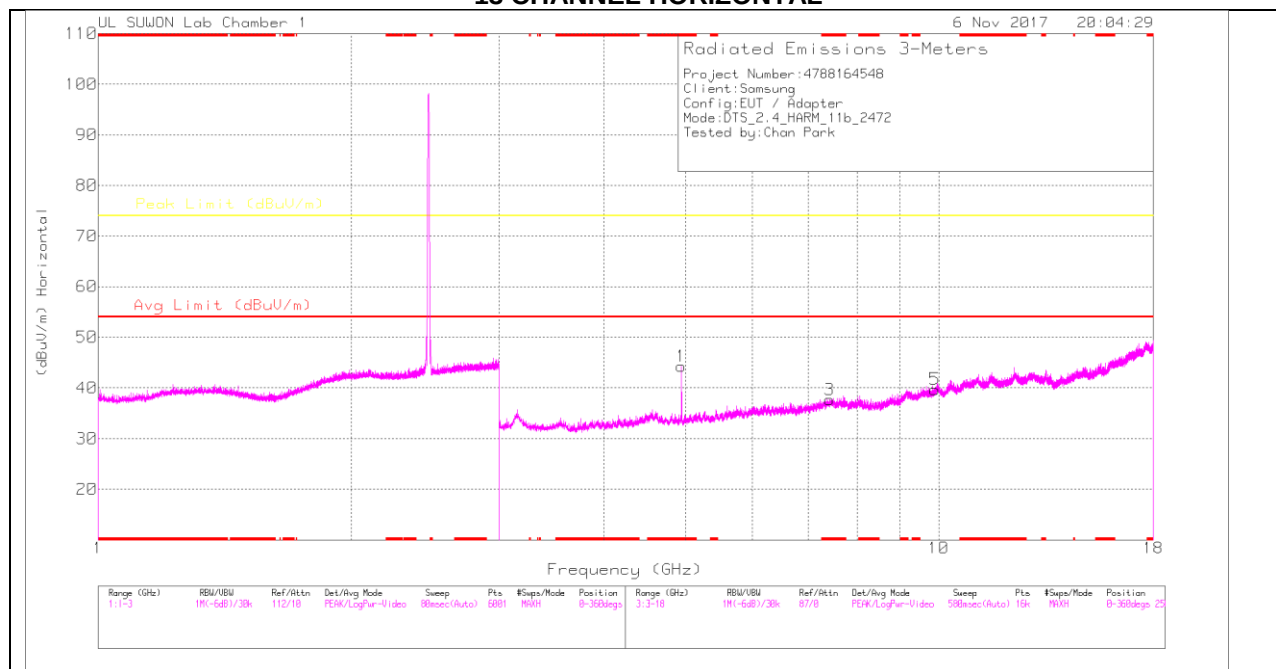
Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_00168717	3GHz_HP(dB)_170809	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.934	48.89	PK2	33.8	-31.8	0	50.89	-	-	74	-23.11	226	271	H
* 4.934	44.68	MAv1	33.8	-31.8	0	46.68	54	-7.32	-	-	226	271	H
* 4.934	48.73	PK2	33.8	-31.8	0	50.73	-	-	74	-23.27	175	130	V
* 4.934	44.72	MAv1	33.8	-31.8	0	46.72	54	-7.28	-	-	175	130	V

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

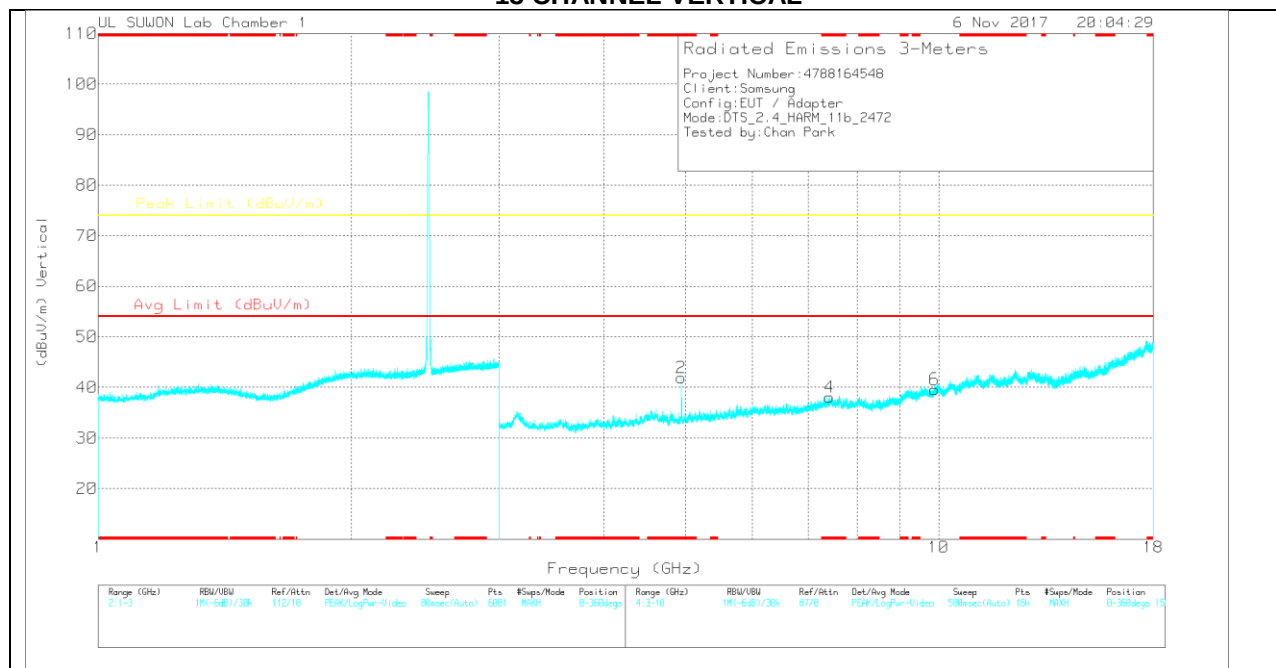
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

13 CHANNEL HORIZONTAL



13 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.

13 CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_001687_17	3GHz_HP(dB)_170809	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	* 4.943	42.14	PK	33.8	-31.7	0	44.24	-	-	74	-29.76	0-360	250	H
3	* 7.413	28.89	PK	35.9	-27.1	0	37.69	-	-	74	-36.31	0-360	150	H
5	9.894	25.31	PK	37.1	-22.7	0	39.71	-	-	74	-34.29	0-360	250	H
2	* 4.943	39.82	PK	33.8	-31.7	0	41.92	-	-	74	-32.08	0-360	250	V
4	* 7.417	29.12	PK	35.9	-27	0	38.02	-	-	74	-35.98	0-360	150	V
6	9.886	25.27	PK	37.1	-22.8	0	39.57	-	-	74	-34.43	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	20170531_3117_00168717	3GHz_HP(dB)_170809	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.944	46.35	PK2	33.8	-31.8	0	48.35	-	-	74	-25.65	224	250	H
* 4.944	40.89	MAv1	33.8	-31.8	0	42.89	54	-11.11	-	-	224	250	H
* 4.944	45.51	PK2	33.8	-31.8	0	47.51	-	-	74	-26.49	177	113	V
* 4.944	39.26	MAv1	33.8	-31.8	0	41.26	54	-12.74	-	-	177	113	V

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

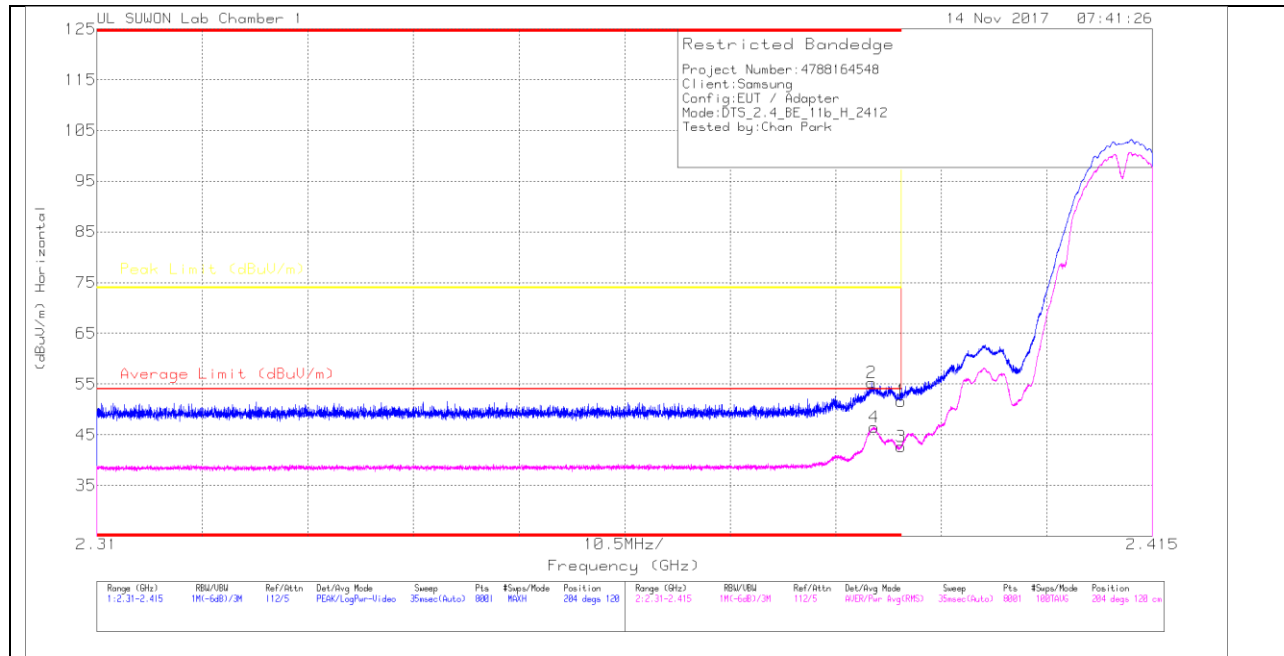
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

10.2.2. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND ANTENNA2

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

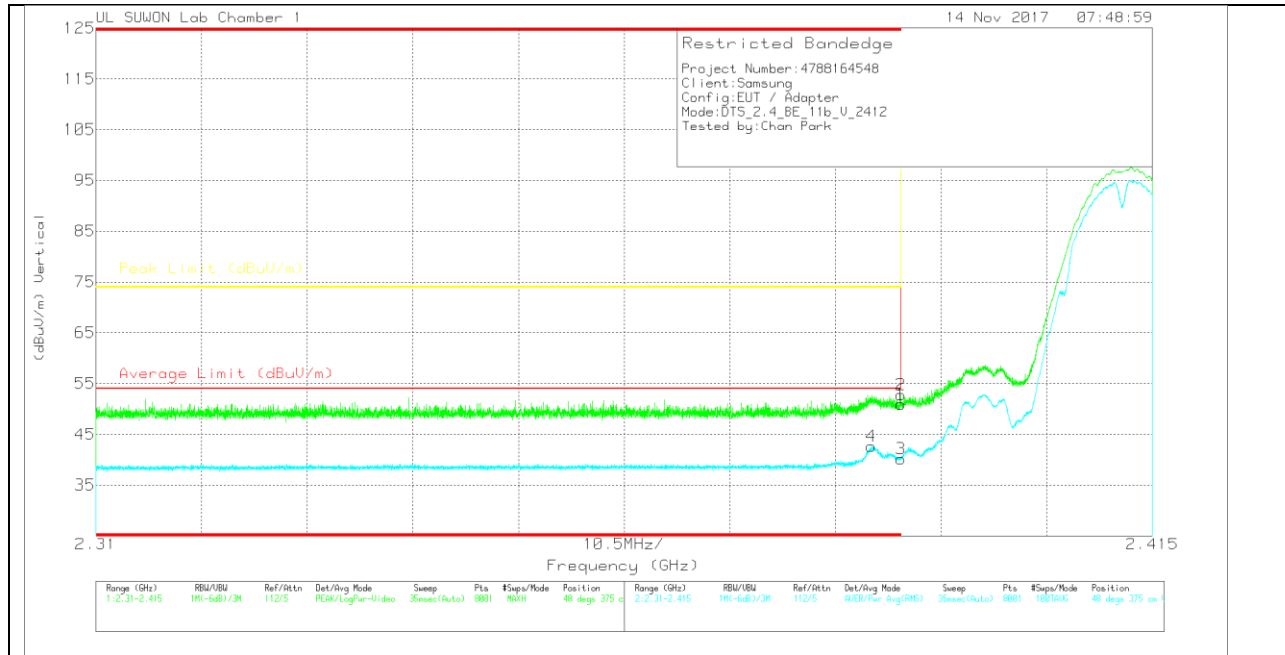
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_00108	10dB_ATT(dB)_170809	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Pk Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	46.03	Pk	31.3	-25.7	0	51.63	-	-	74	-22.37	204	120	H
2	* 2.387	49.68	Pk	31.3	-25.7	0	55.28	-	-	74	-18.72	204	120	H
3	* 2.39	37.07	RMS	31.3	-25.7	0	42.67	54	-11.33	-	-	204	120	H
4	* 2.387	40.93	RMS	31.3	-25.7	0	46.53	54	-7.47	-	-	204	120	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	20170531_3117_00108 717	10dB_ATT(dB)_170809	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	* 2.39	45.33	Pk	31.3	-25.7	0	50.93	-	-	74	-23.07	48	375	V
2	* 2.39	47.23	Pk	31.3	-25.7	0	52.83	-	-	74	-21.17	48	375	V
3	* 2.39	34.61	RMS	31.3	-25.7	0	40.21	54	-13.79	-	-	48	375	V
4	* 2.387	37.04	RMS	31.3	-25.7	0	42.64	54	-11.36	-	-	48	375	V

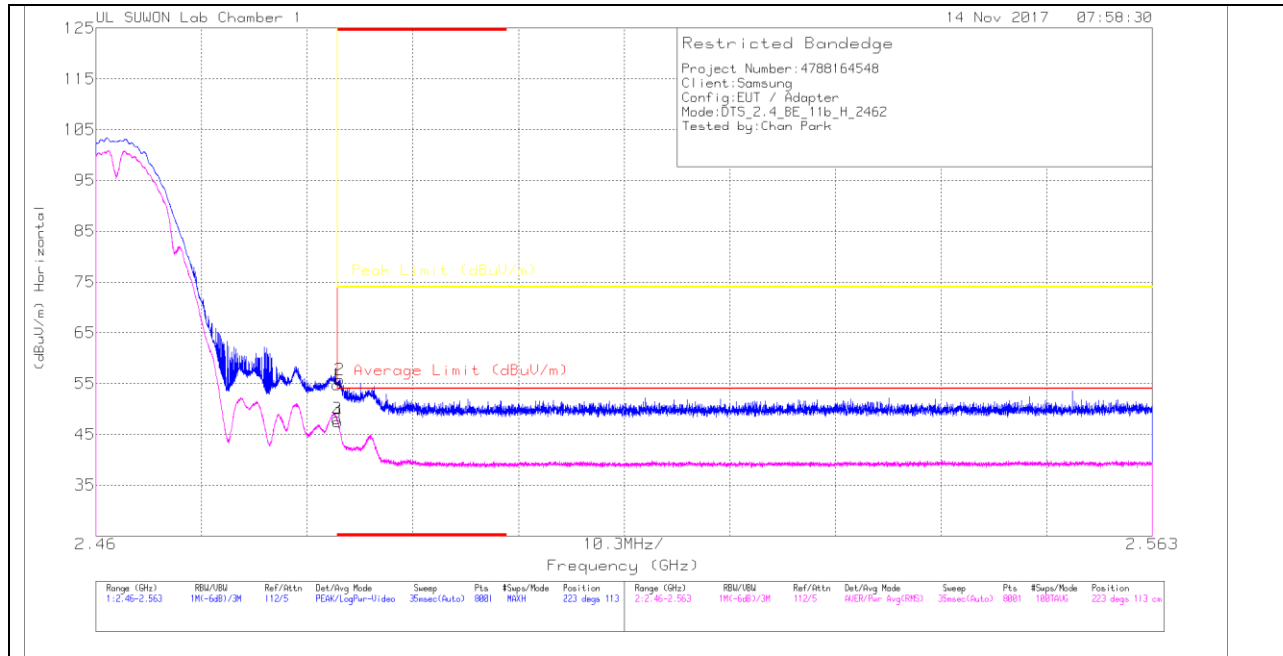
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

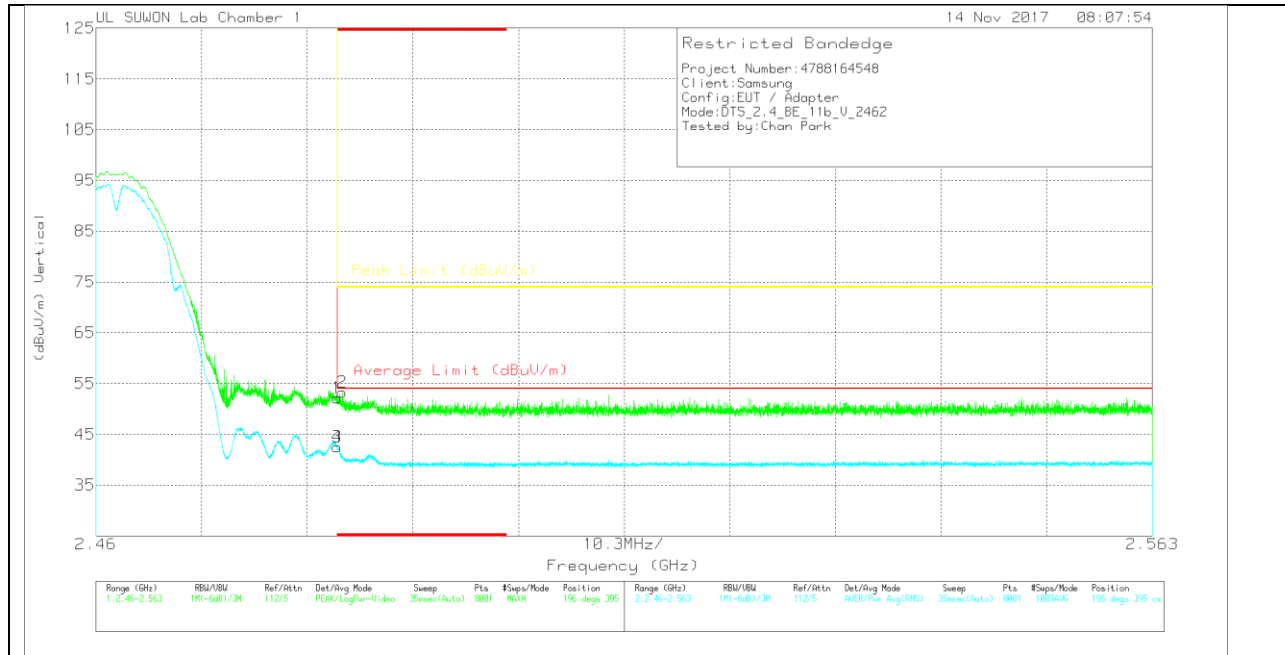
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_1117_00168 717	10dB_ATT(dB)_170809	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.484	48.71	Pk	31.6	-25.5	0	54.81	-	-	74	-19.19	223	113	H
2	* 2.484	49.72	Pk	31.6	-25.5	0	55.82	-	-	74	-18.18	223	113	H
3	* 2.484	41.98	RMS	31.6	-25.5	0	48.08	54	-5.92	-	-	223	113	H
4	* 2.484	41.35	RMS	31.6	-25.5	0	47.45	54	-6.55	-	-	223	113	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	20170531_3117_00108 717	10dB_ATT(dB)_170809	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	46.05	Pk	31.6	-25.5	0	52.15	-	-	74	-21.85	196	395	V
2	* 2.484	47.24	Pk	31.6	-25.5	0	53.34	-	-	74	-20.66	196	395	V
3	* 2.484	36.48	RMS	31.6	-25.5	0	42.58	54	-11.42	-	-	196	395	V
4	* 2.484	36.46	RMS	31.6	-25.5	0	42.56	54	-11.44	-	-	196	395	V

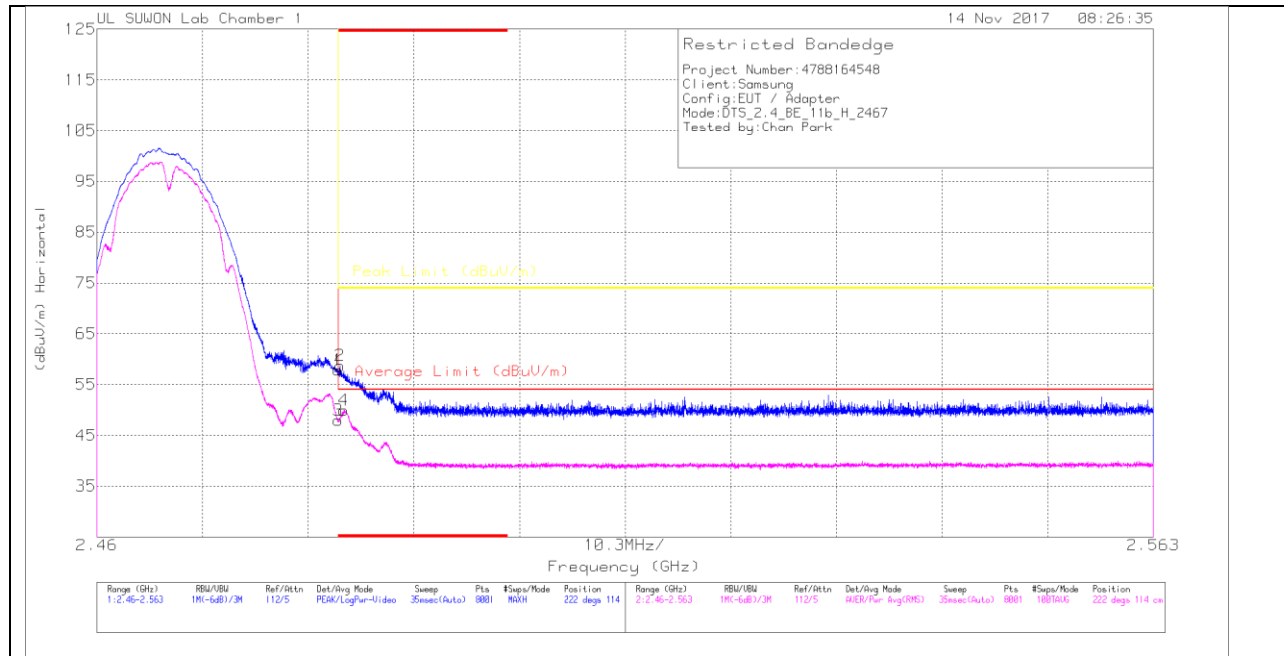
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (12 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

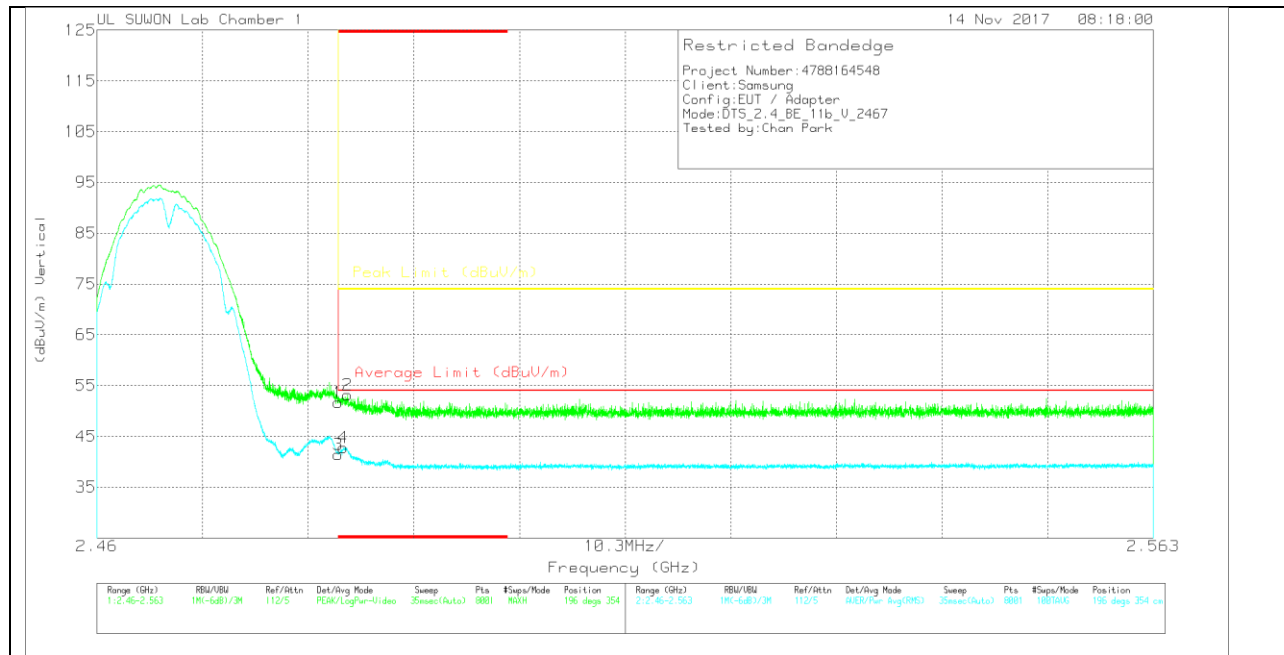
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_00168 717	10dB_ATT(dB)_170809	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.484	51.74	Pk	31.6	-25.5	0	57.84	-	-	74	-16.16	222	114	H
2	* 2.484	52.58	Pk	31.6	-25.5	0	58.68	-	-	74	-15.32	222	114	H
3	* 2.484	41.9	RMS	31.6	-25.5	0	48	54	-6	-	-	222	114	H
4	* 2.484	43.87	RMS	31.6	-25.5	0	49.97	54	-4.03	-	-	222	114	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	20170531_3117_00168 717	10dB_ATT(dB)_170809	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	45.6	Pk	31.6	-25.5	0	51.7	-	-	74	-22.3	196	354	V
2	* 2.484	47.02	Pk	31.6	-25.5	0	53.12	-	-	74	-20.88	196	354	V
3	* 2.484	35.28	RMS	31.6	-25.5	0	41.38	54	-12.62	-	-	196	354	V
4	* 2.484	36.64	RMS	31.6	-25.5	0	42.74	54	-11.26	-	-	196	354	V

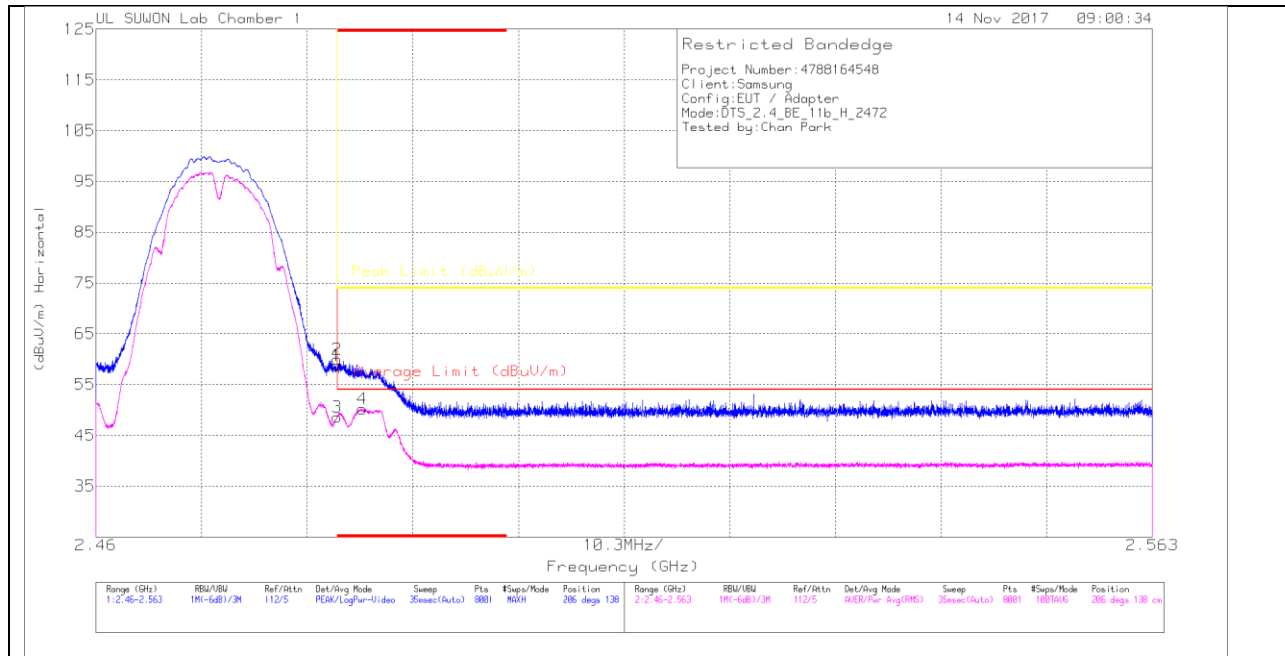
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (13 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

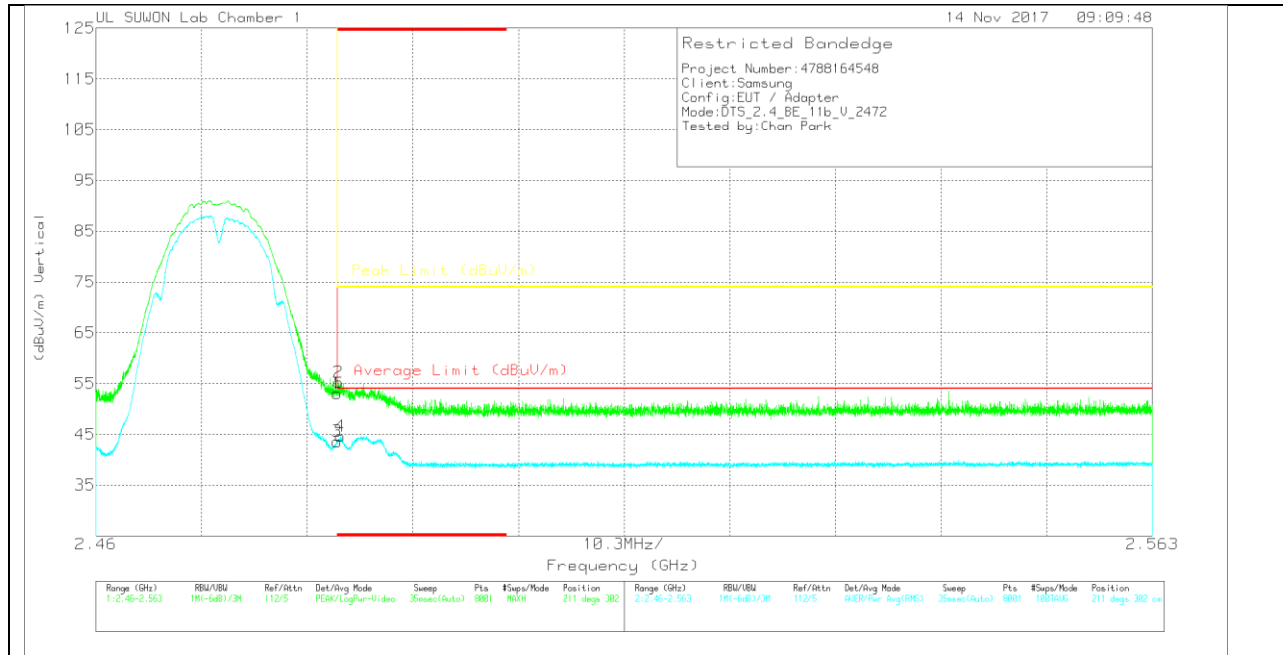
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_00168 717	10dB_ATT(dB)_170809	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	52.64	Pk	31.6	-25.5	0	58.74	-	-	74	-15.26	206	138	H
2	* 2.484	53.86	Pk	31.6	-25.5	0	59.96	-	-	74	-14.04	206	138	H
3	* 2.484	42.45	RMS	31.6	-25.5	0	48.55	54	-5.45	-	-	206	138	H
4	* 2.486	44.12	RMS	31.6	-25.5	0	50.22	54	-3.78	-	-	206	138	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	20170531_3117_00168 717	10dB_ATT(dB)_170809	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	46.98	Pk	31.6	-25.5	0	53.08	-	-	74	-20.92	211	302	V
2	* 2.484	49.12	Pk	31.6	-25.5	0	55.22	-	-	74	-18.78	211	302	V
3	* 2.484	37.49	RMS	31.6	-25.5	0	43.59	54	-10.41	-	-	211	302	V
4	* 2.484	38.57	RMS	31.6	-25.5	0	44.67	54	-9.33	-	-	211	302	V

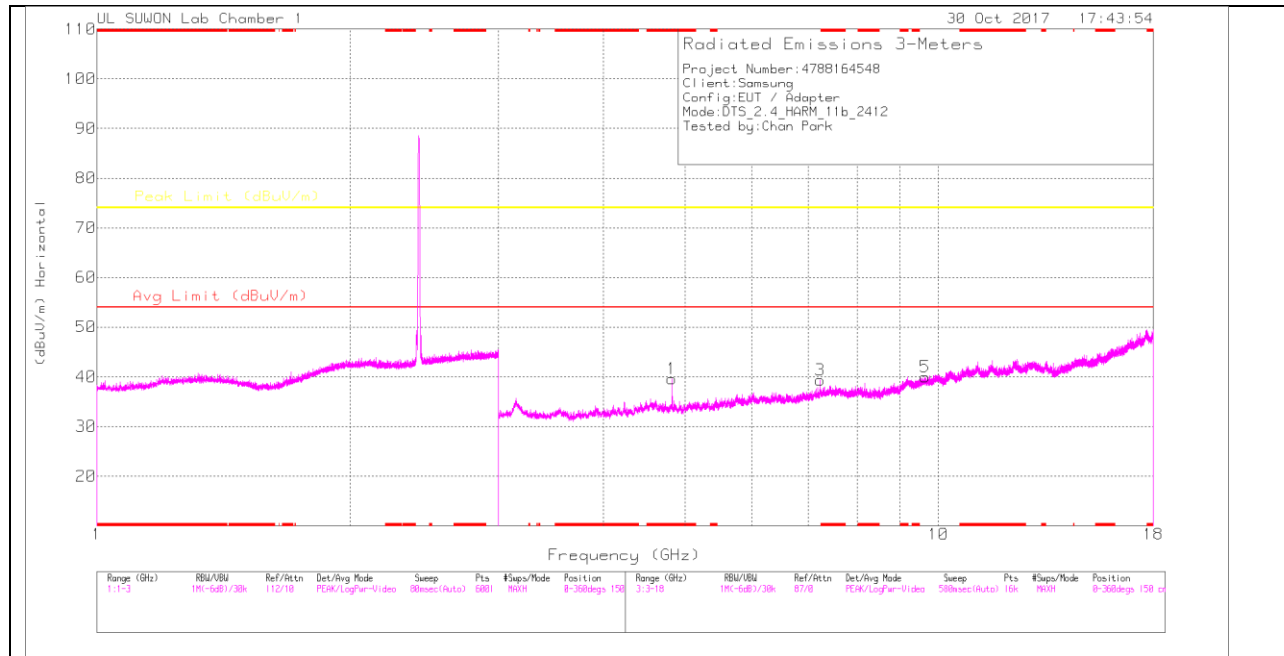
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

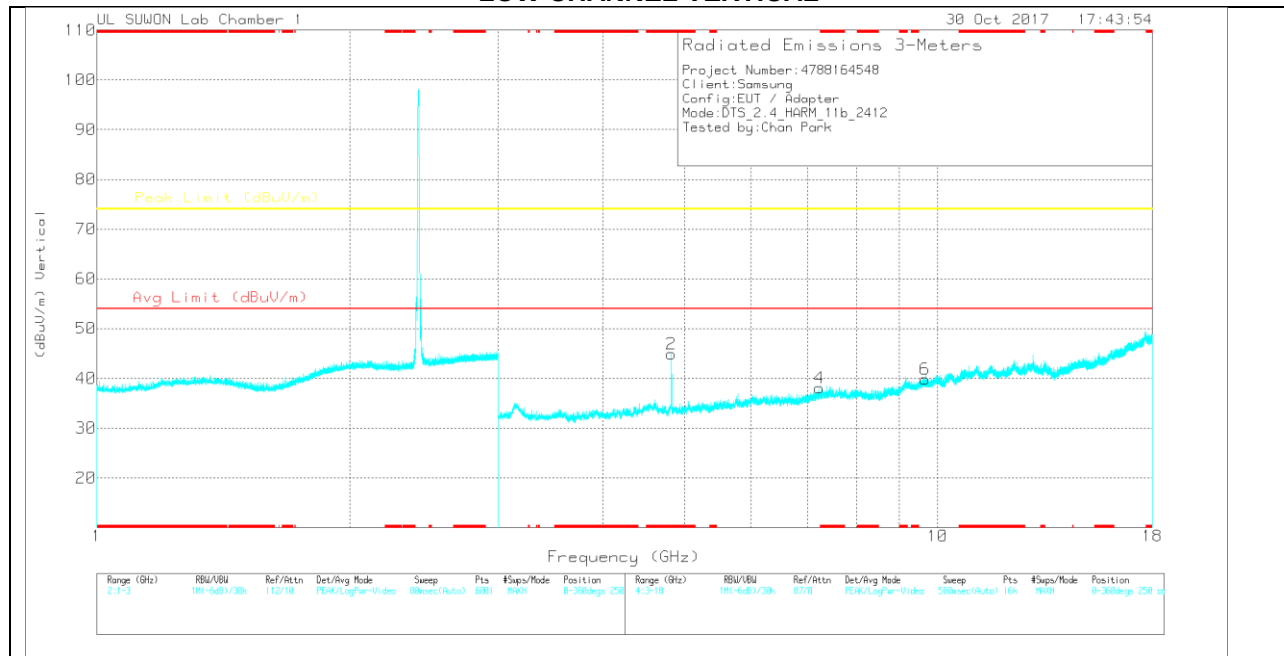
RMS - RMS detection

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	20170531_3117_001687_17	3GHz_HP(dB)_170809	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	37.37	PK	33.8	-31.6	0	39.57	-	-	74	-34.43	0-360	150	H
3	7.235	31.6	PK	35.9	-28.1	0	39.4	-	-	74	-34.6	0-360	150	H
5	9.648	26.87	PK	36.8	-23.7	0	39.97	-	-	74	-34.03	0-360	150	H
2	* 4.823	42.76	PK	33.8	-31.6	0	44.96	-	-	74	-29.04	0-360	150	V
4	7.237	30.23	PK	35.9	-28	0	38.13	-	-	74	-35.87	0-360	250	V
6	9.651	26.79	PK	36.8	-23.7	0	39.89	-	-	74	-34.11	0-360	250	V

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

PK – Peak detector

Radiated Emissions

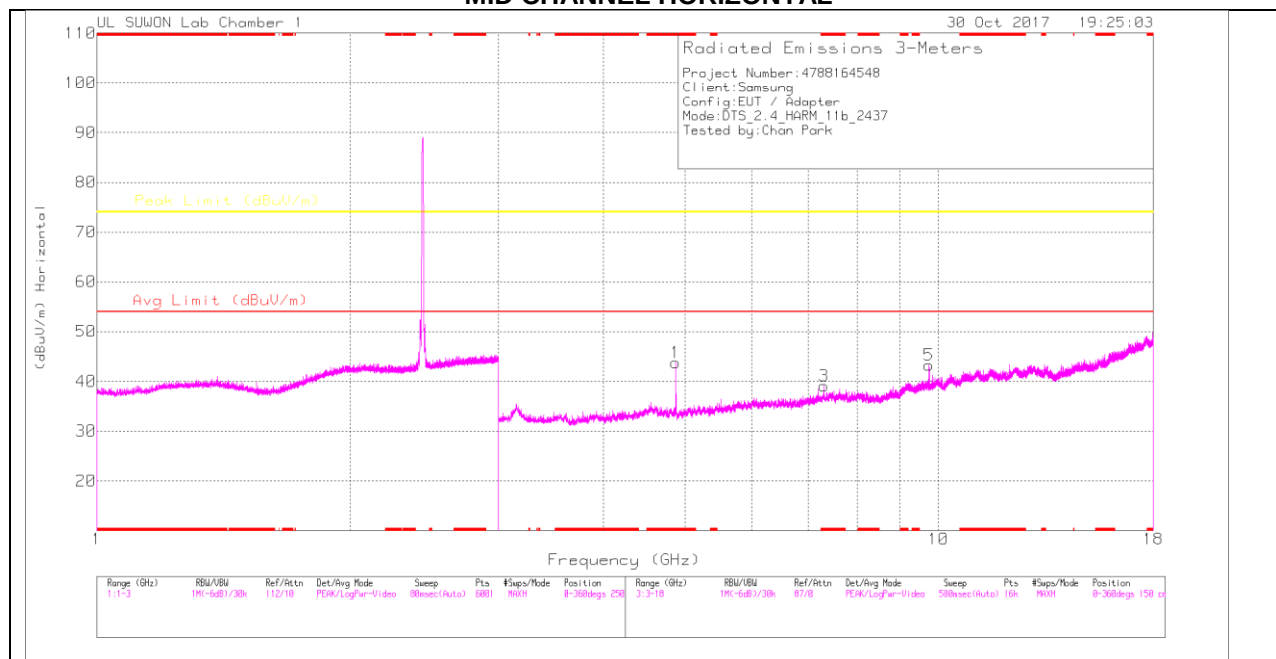
Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_00168717	3GHz_HP(dB)_170809	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.824	46.56	PK2	33.8	-31.6	0	48.76	-	-	74	-25.24	119	375	H
* 4.824	39.25	MAv1	33.8	-31.6	0	41.45	54	-12.55	-	-	119	375	H
* 4.824	51.53	PK2	33.8	-31.6	0	53.73	-	-	74	-20.27	184	167	V
* 4.824	44.14	MAv1	33.8	-31.6	0	46.34	54	-7.66	-	-	184	167	V

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

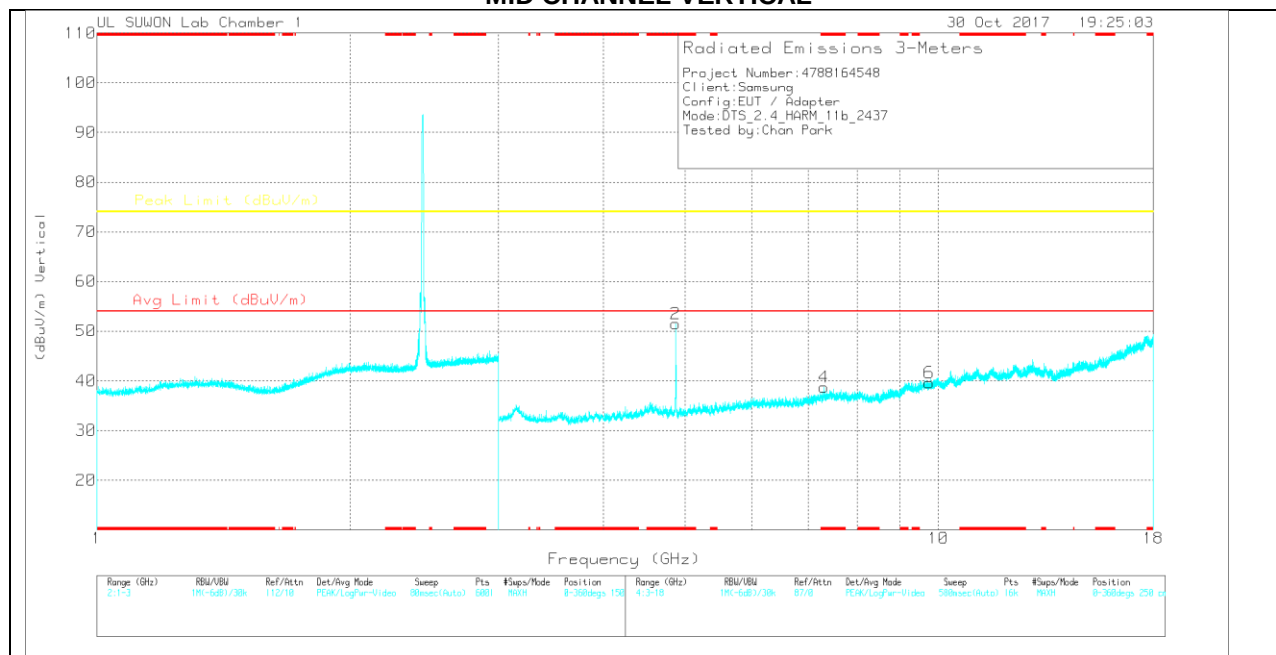
PK2 - KDB558074 Method: Maximum Peak

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	20170531_3117_001687_17	3GHz_HP(dB)_170809	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	41.65	PK	33.8	-31.7	0	43.75	-	-	74	-30.25	0-360	250	H
3	* 7.309	30.87	PK	35.9	-27.7	0	39.07	-	-	74	-34.93	0-360	150	H
5	9.748	30.57	PK	36.9	-24.2	0	43.27	-	-	74	-30.73	0-360	250	H
2	* 4.874	49.42	PK	33.8	-31.7	0	51.52	-	-	74	-22.48	0-360	150	V
4	* 7.315	30.47	PK	35.9	-27.6	0	38.77	-	-	74	-35.23	0-360	150	V
6	9.749	26.95	PK	36.9	-24.2	0	39.65	-	-	74	-34.35	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	20170531_3117_00168717	3GHz_HP(dB)_170809	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	47.65	PK2	33.8	-31.7	0	49.75	-	-	74	-24.25	129	148	H
* 4.874	38.74	MAv1	33.8	-31.7	0	40.84	54	-13.16	-	-	129	148	H
9.748	36.43	PK2	36.9	-24.2	0	49.13	-	-	74	-24.87	246	349	H
* 4.874	52.97	PK2	33.8	-31.7	0	55.07	-	-	74	-18.93	178	171	V
* 4.874	47.64	MAv1	33.8	-31.7	0	49.74	54	-4.26	-	-	178	171	V
9.748	37.33	PK2	36.9	-24.2	0	50.03	-	-	74	-23.97	183	167	V

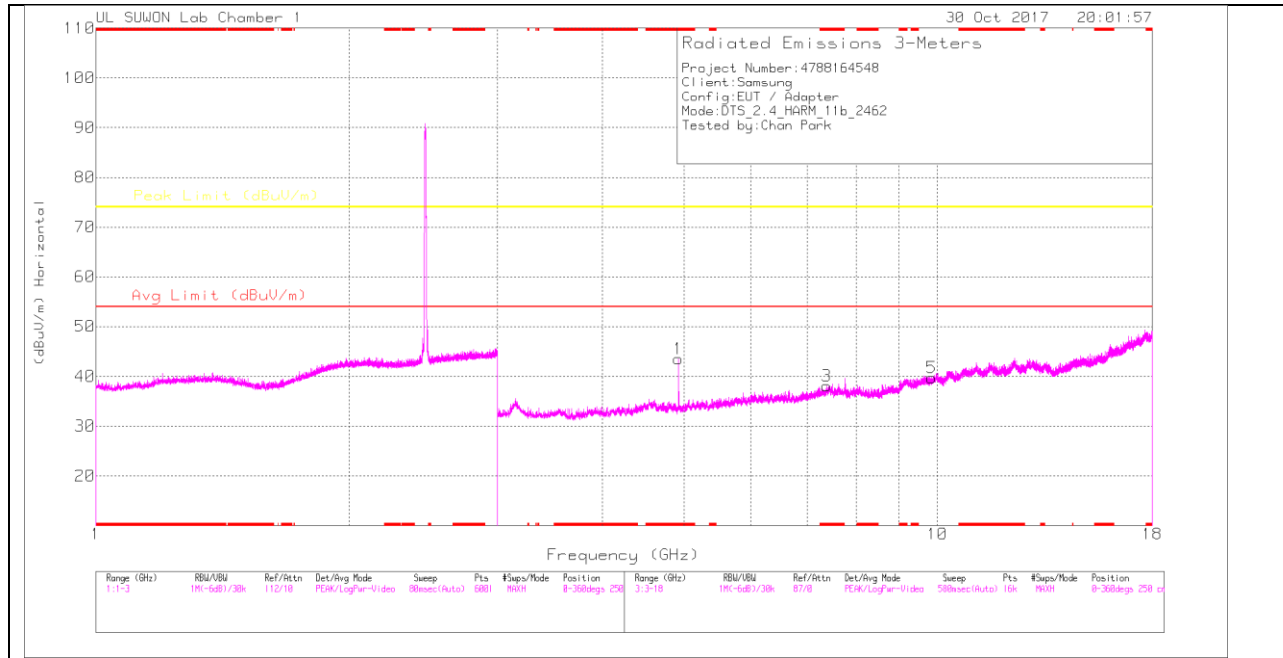
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

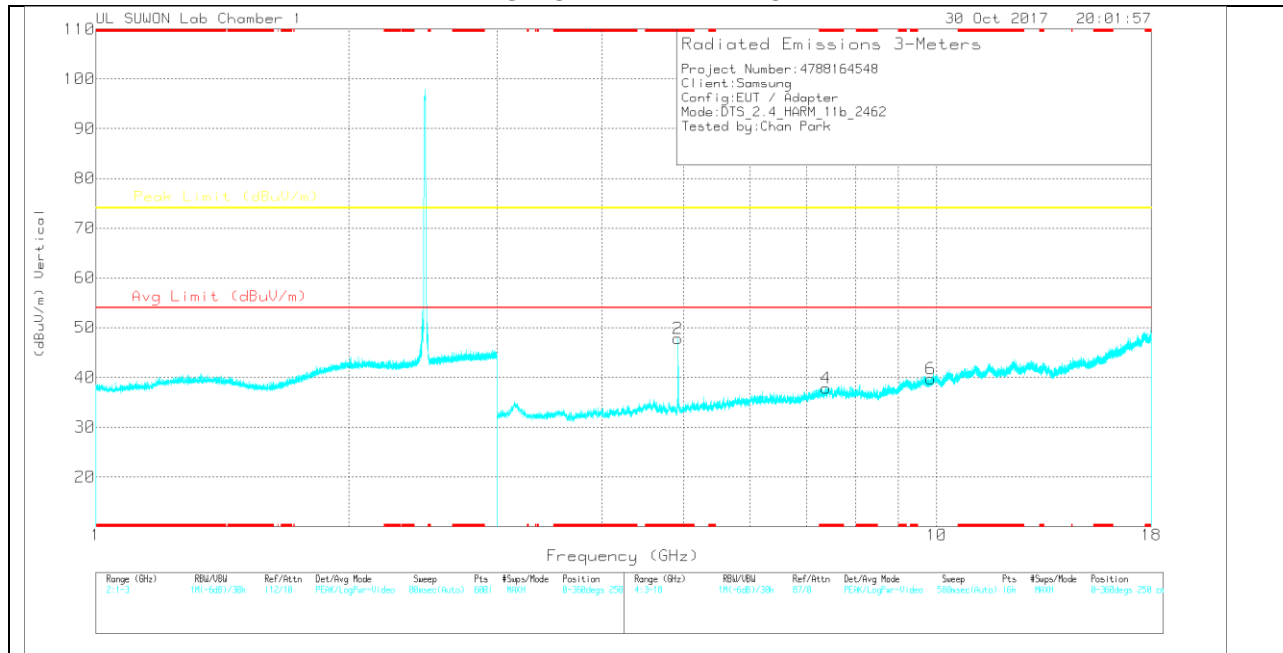
MAv1 - KDB558074 Option 1 Maximum RMS Average

Note: Frequency range 9748MHz is non-restricted band so only peak measurement was performed .

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	20170531_3117_001687_17	3GHz_HP(dB)_170809	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	41.51	PK	33.8	-31.8	0	43.51	-	-	74	-30.49	0-360	150	H
3	* 7.387	29.43	PK	35.9	-27.2	0	38.13	-	-	74	-35.87	0-360	150	H
5	9.848	26.17	PK	37	-23.4	0	39.77	-	-	74	-34.23	0-360	250	H
2	* 4.924	45.79	PK	33.8	-31.8	0	47.79	-	-	74	-26.21	0-360	250	V
4	* 7.386	29.11	PK	35.9	-27.2	0	37.81	-	-	74	-36.19	0-360	150	V
6	9.848	26.1	PK	37	-23.4	0	39.7	-	-	74	-34.3	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	20170531_3117_00168717	3GHz_HP(dB)_170809	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.924	45.67	PK2	33.8	-31.8	0	47.67	-	-	74	-26.33	58	148	H
* 4.924	38.27	MAv1	33.8	-31.8	0	40.27	54	-13.73	-	-	58	148	H
* 4.924	51.27	PK2	33.8	-31.8	0	53.27	-	-	74	-20.73	173	193	V
* 4.924	46.51	MAv1	33.8	-31.8	0	48.51	54	-5.49	-	-	173	193	V

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

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average