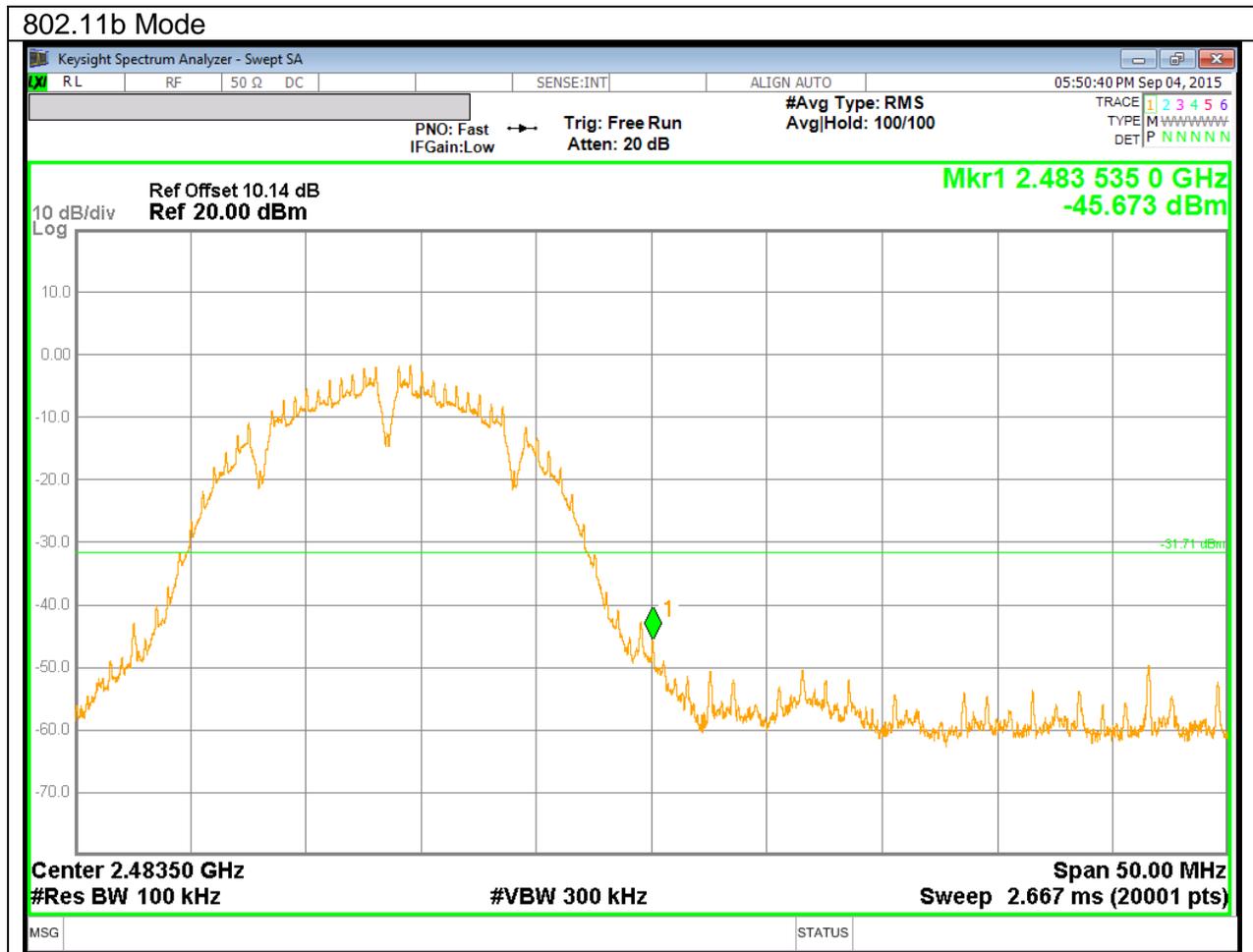
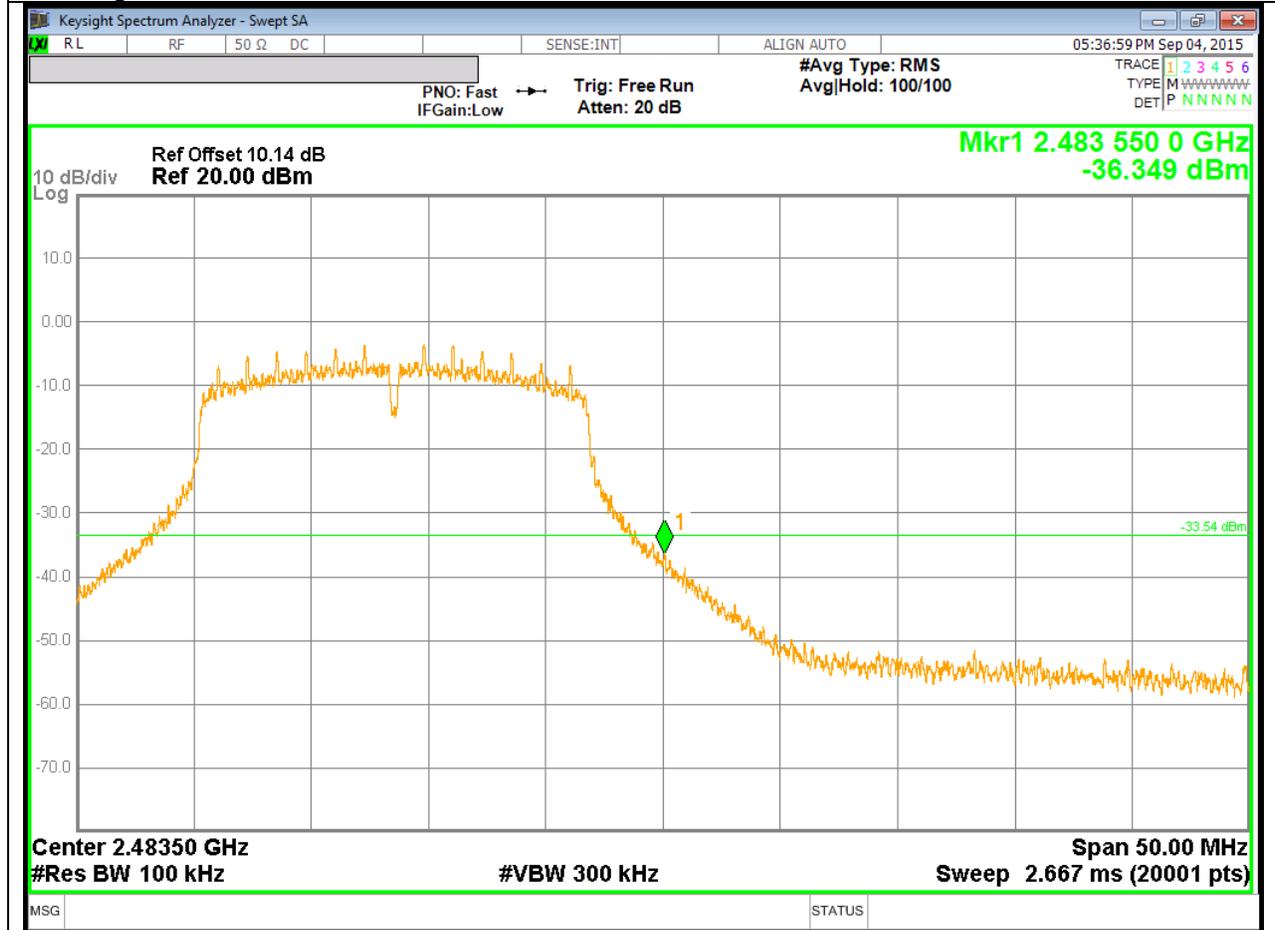


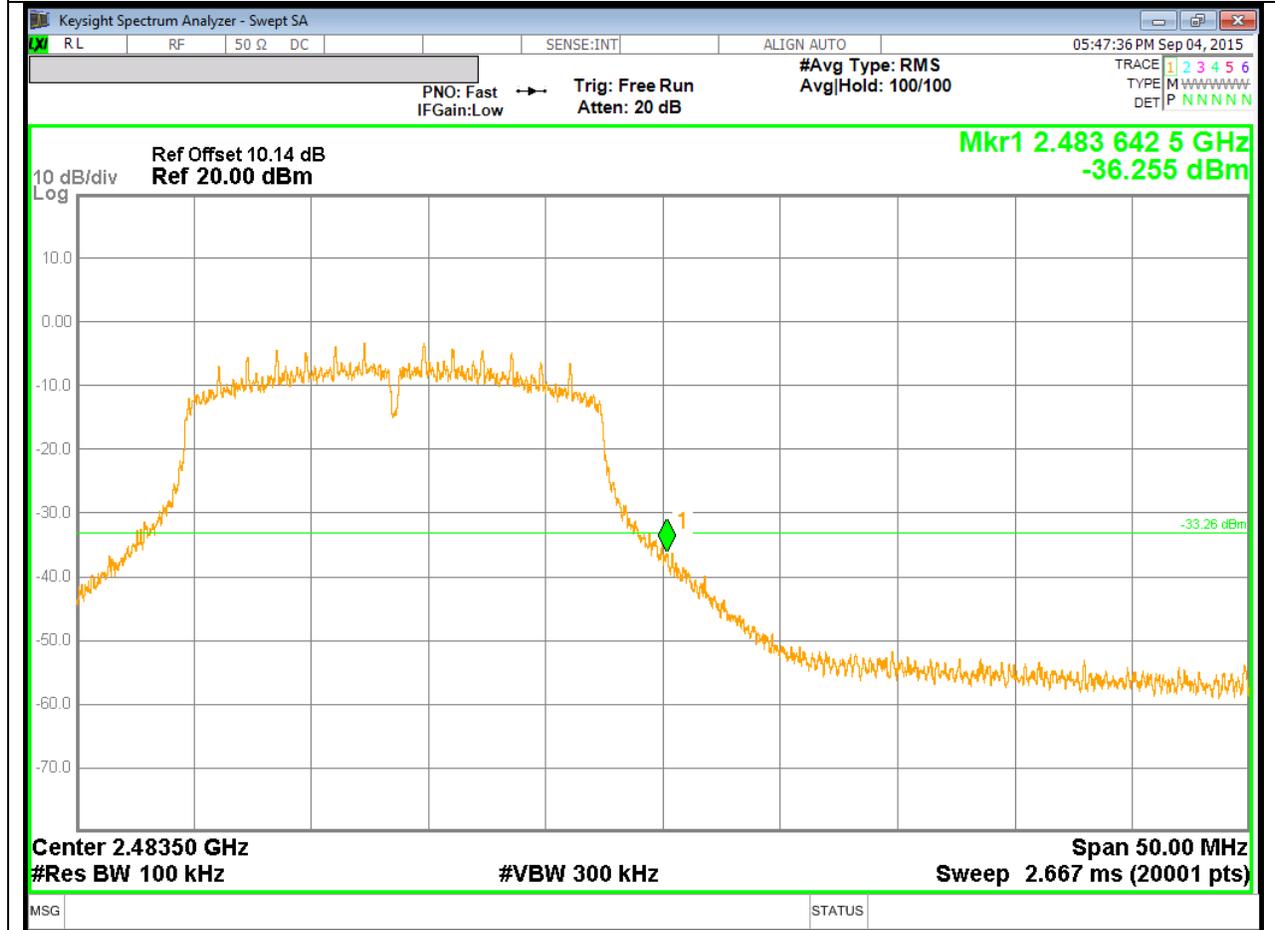
### 10.6.1. Bandedge Emission at Channel 13



802.11g Mode

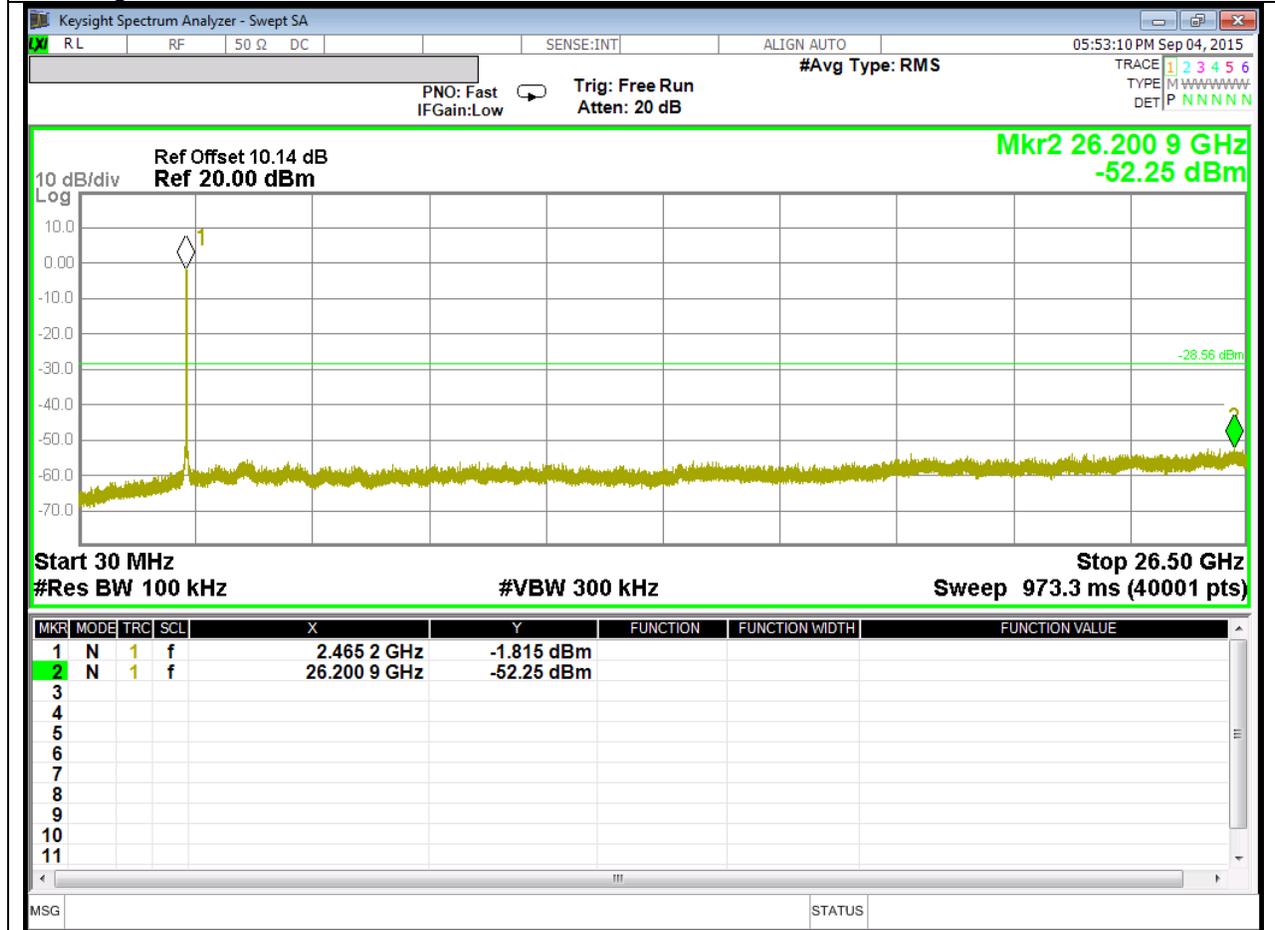


802.11n Mode

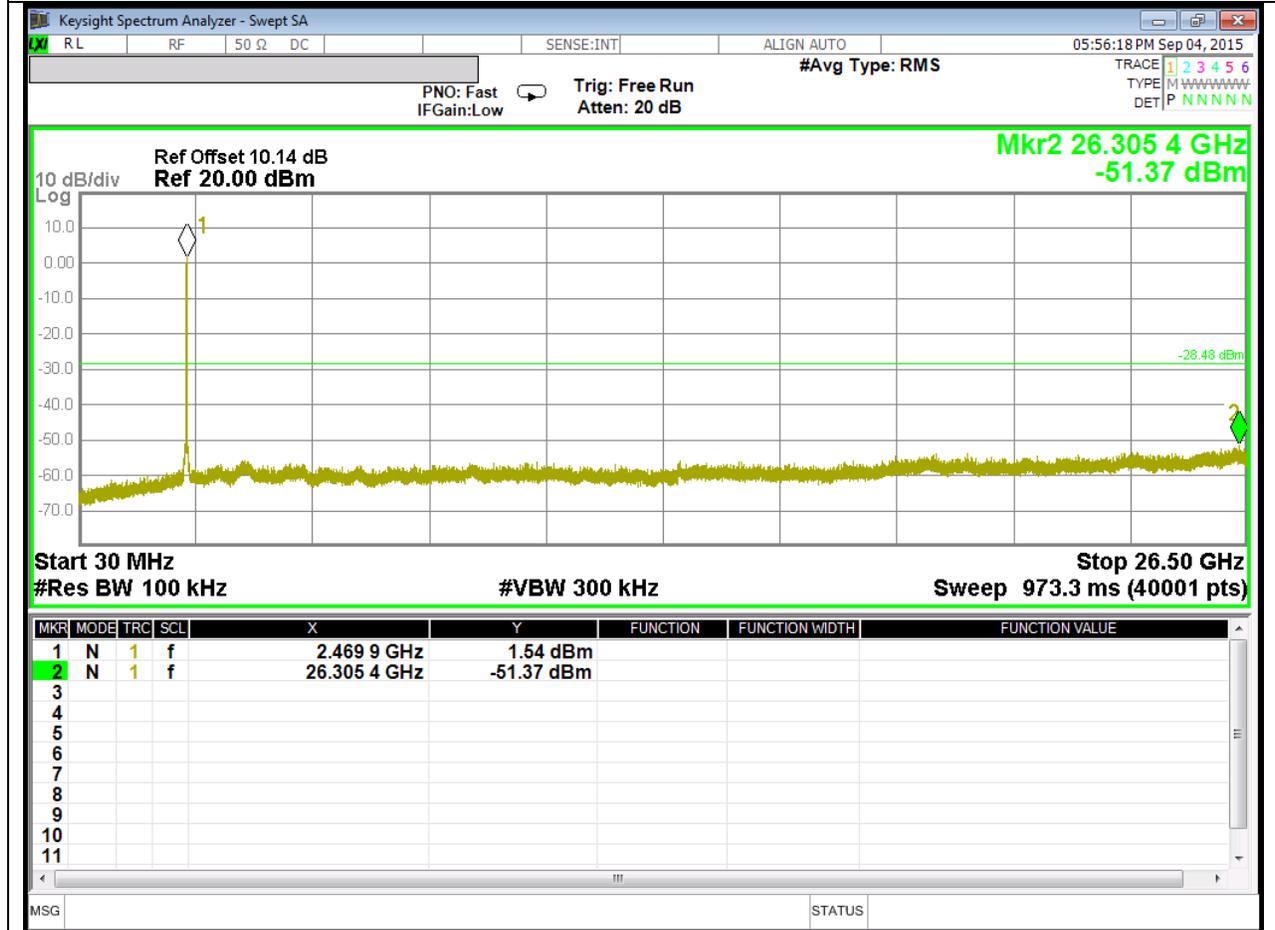




802.11g Mode

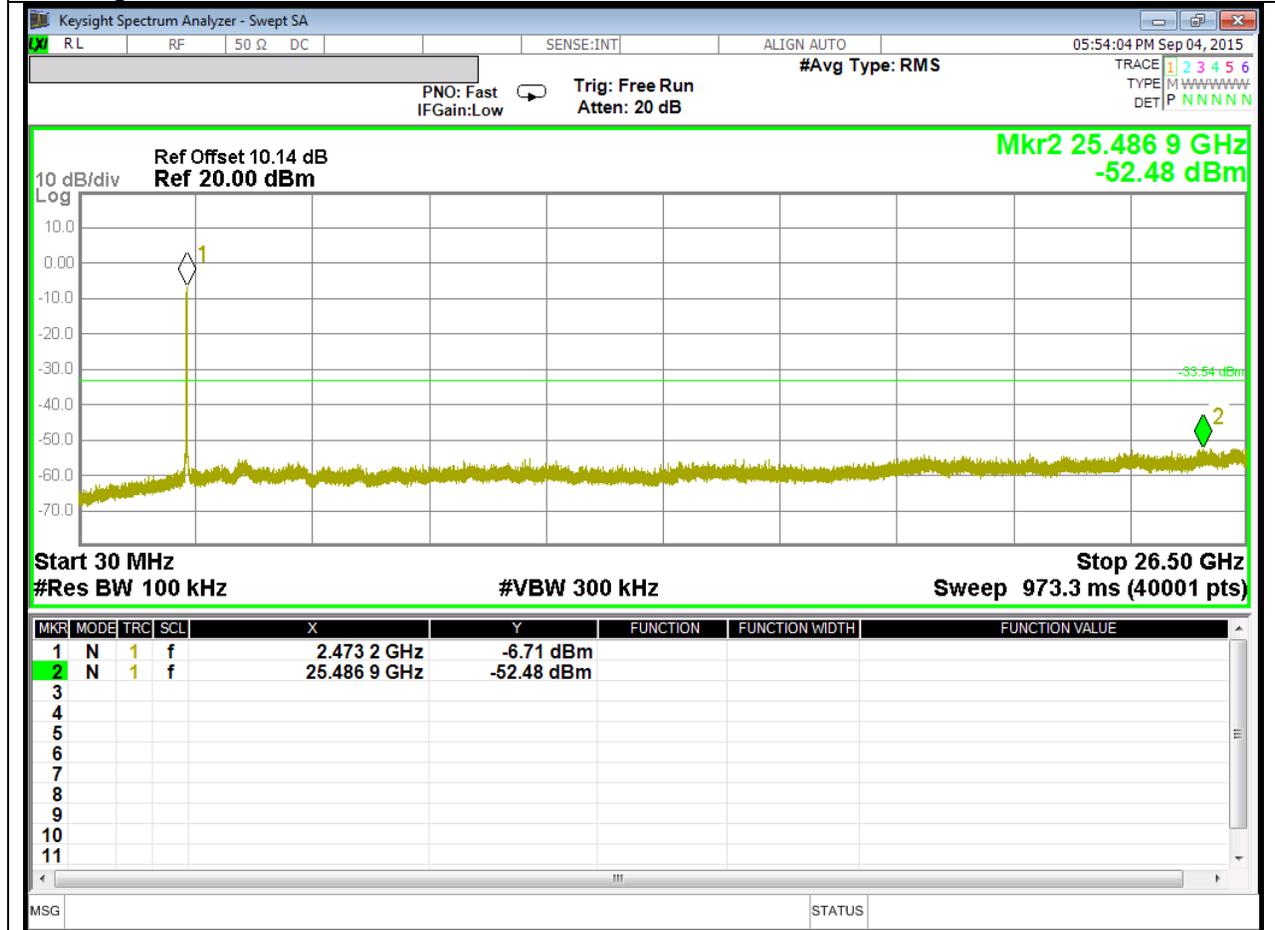


802.11n Mode

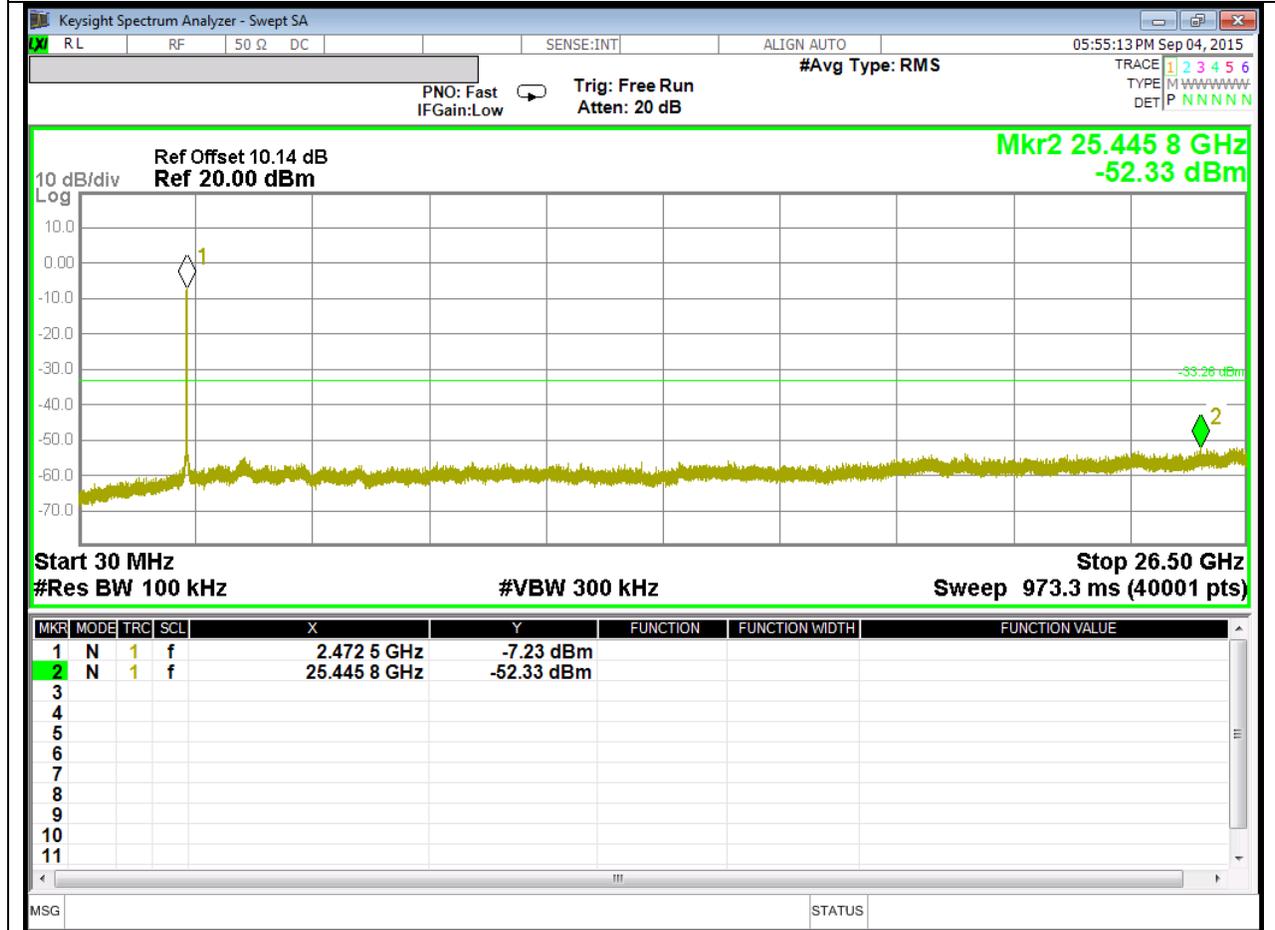




802.11g Mode



802.11n Mode



## 11. RADIATED TEST RESULTS

### 11.1. LIMITS AND PROCEDURE

#### LIMITS

FCC §15.205 and §15.209

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

#### TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters.

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. Duty cycle factor=  $10\log(1/x)$  For this sample B mode = 0dB (duty cycle >98%); G mode = 0.17dB; N mode = 0.28dB.

The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

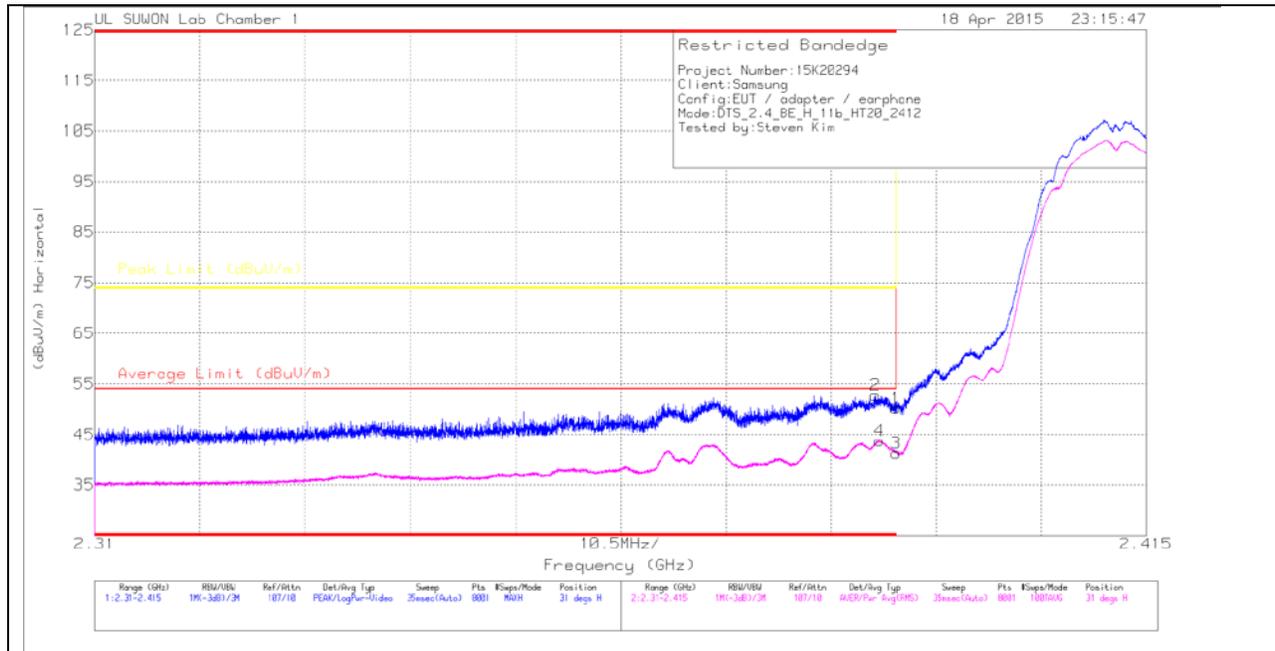
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

## 11.2. TRANSMITTER ABOVE 1 GHz

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

#### RESTRICTED BANDEDGE (LOW CHANNEL)

#### HORIZONTAL PEAK AND AVERAGE PLOT



#### HORIZONTAL DATA

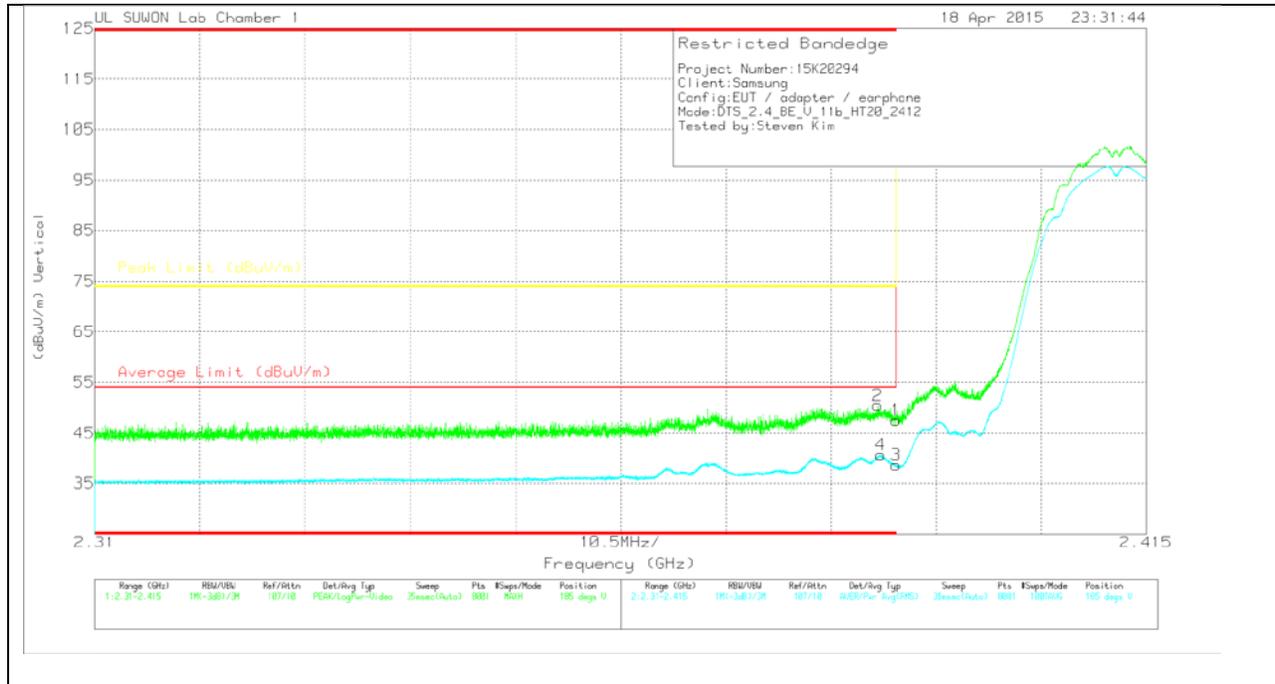
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3115D Factor	Path_2_10dB	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	45.14	Pk	27.9	-22.8	0	50.24	-	-	74	-23.76	31	106	H
2	* 2.388	47.74	Pk	27.9	-22.8	0	52.84	-	-	74	-21.16	31	106	H
3	* 2.39	36.19	RMS	27.9	-22.8	0	41.29	54	-12.71	-	-	31	106	H
4	* 2.388	38.71	RMS	27.9	-22.8	0	43.81	54	-10.19	-	-	31	106	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

**VERTICAL PEAK AND AVERAGE PLOT**



**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3115D Factor	Path_2_10dB	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	42.36	PK	27.9	-22.8	0	47.46	-	-	74	-26.54	185	371	V
2	* 2.388	45.29	PK	27.9	-22.8	0	50.39	-	-	74	-23.61	185	371	V
3	* 2.39	33.53	RMS	27.9	-22.8	0	38.63	54	-15.37	-	-	185	371	V
4	* 2.389	35.52	RMS	27.9	-22.8	0	40.62	54	-13.38	-	-	185	371	V

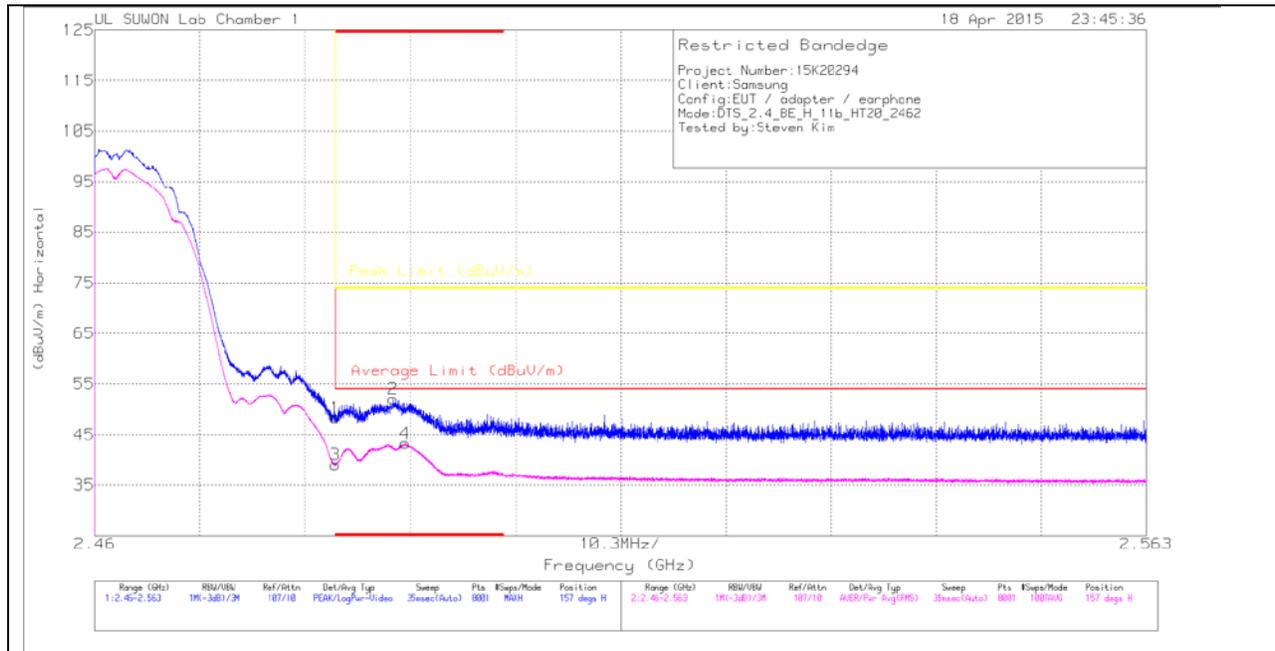
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

**AUTHORIZED BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL PEAK AND AVERAGE PLOT**



**HORIZONTAL DATA**

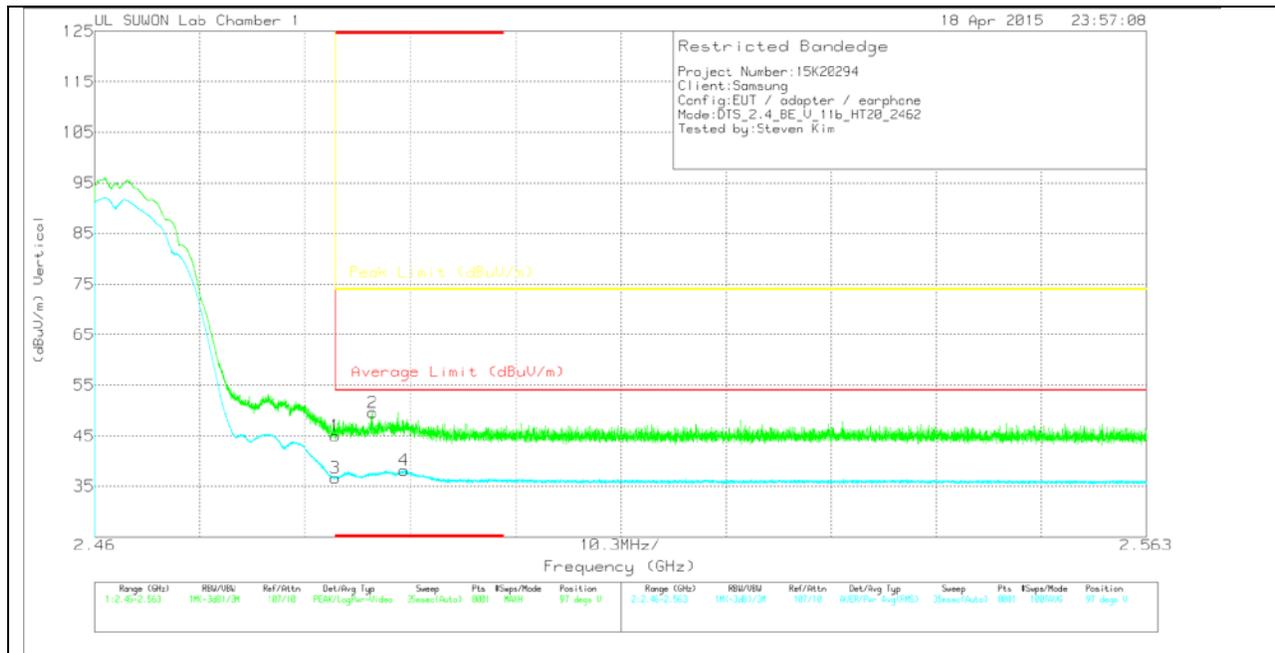
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3115D Factor	Path_2_10dB	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	43.04	Pk	27.9	-22.6	0	48.34	-	-	74	-25.66	157	347	H
2	* 2.489	46.74	Pk	27.9	-22.6	0	52.04	-	-	74	-21.96	157	347	H
3	* 2.484	33.73	RMS	27.9	-22.6	0	39.03	54	-14.97	-	-	157	347	H
4	* 2.49	37.93	RMS	27.9	-22.6	0	43.23	54	-10.77	-	-	157	347	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

**VERTICAL PEAK AND AVERAGE PLOT**



**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3115D Factor	Path_2_10dB	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	39.67	PK	27.9	-22.6	0	44.97	-	-	74	-29.03	97	110	V
2	* 2.487	44.27	PK	27.9	-22.6	0	49.57	-	-	74	-24.43	97	110	V
3	* 2.484	31.36	RMS	27.9	-22.6	0	36.66	54	-17.34	-	-	97	110	V
4	* 2.49	32.89	RMS	27.9	-22.6	0	38.19	54	-15.81	-	-	97	110	V

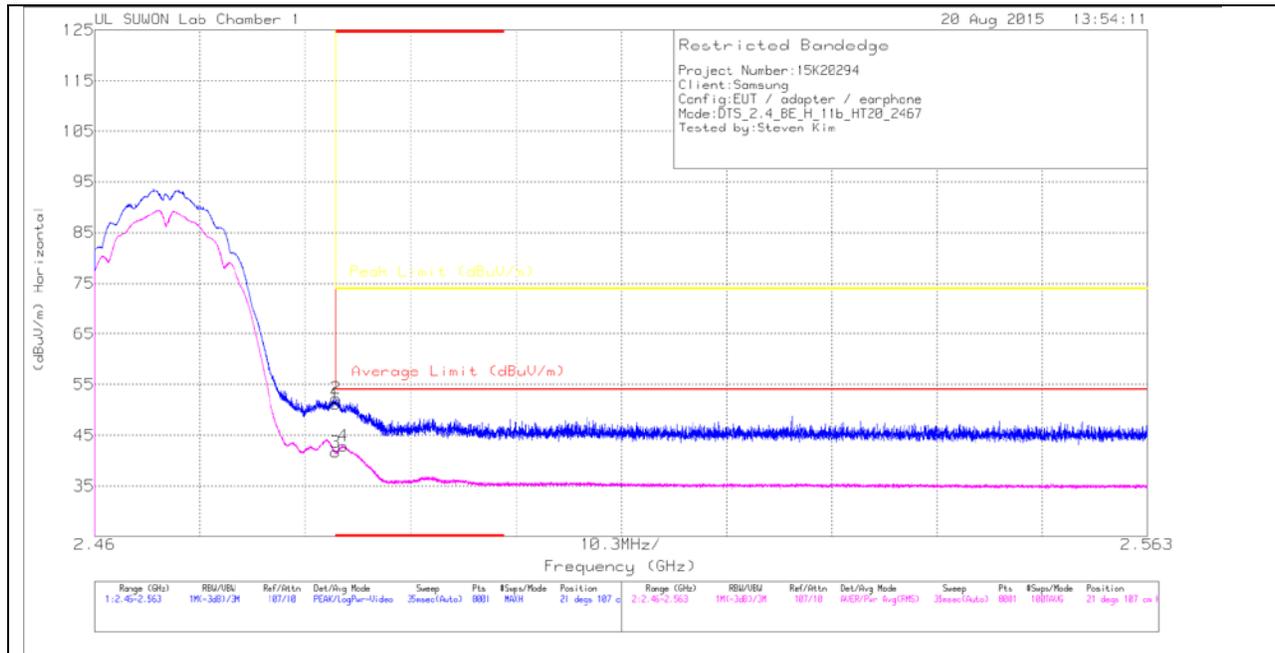
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

## AUTHORIZED BANDEDGE (12 CHANNEL)

### HORIZONTAL PEAK AND AVERAGE PLOT



### HORIZONTAL DATA

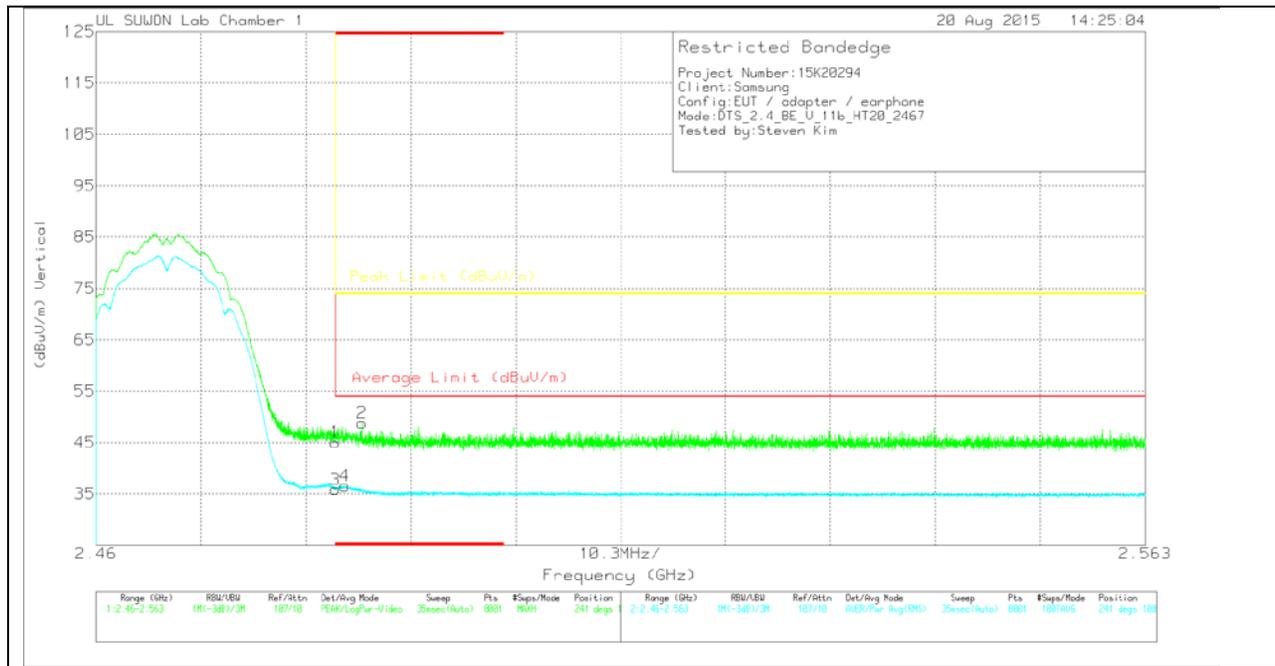
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3115D Factor	10dB_Path2	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	45.78	Pk	27.9	-22.5	0	51.18	-	-	74	-22.82	21	107	H
2	* 2.484	46.96	Pk	27.9	-22.5	0	52.36	-	-	74	-21.64	21	107	H
3	* 2.484	36.22	RMS	27.9	-22.5	0	41.62	54	-12.38	-	-	21	107	H
4	* 2.484	37.56	RMS	27.9	-22.5	0	42.96	54	-11.04	-	-	21	107	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

**VERTICAL PEAK AND AVERAGE PLOT**



**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3115D Factor	10dB_Path2	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	39.67	Pk	27.9	-22.5	0	45.07	-	-	74	-28.93	241	108	V
2	* 2.486	43.4	Pk	27.9	-22.5	0	48.8	-	-	74	-25.2	241	108	V
3	* 2.484	30.47	RMS	27.9	-22.5	0	35.87	54	-18.13	-	-	241	108	V
4	* 2.484	31.17	RMS	27.9	-22.5	0	36.57	54	-17.43	-	-	241	108	V

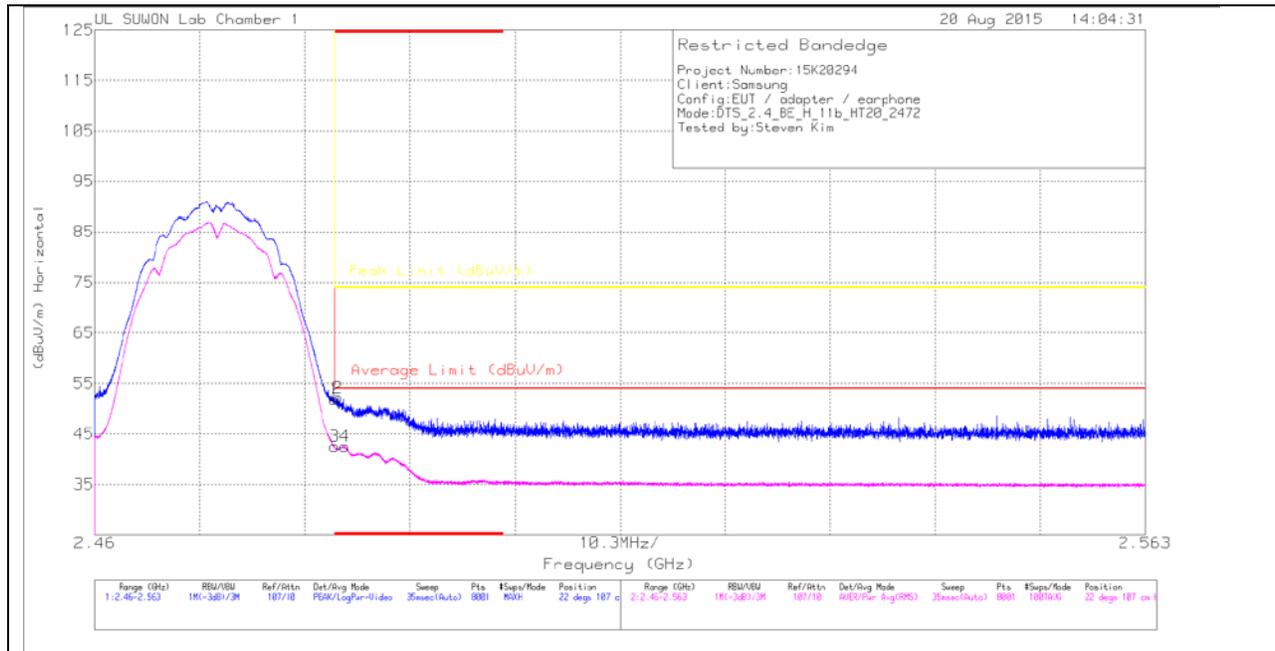
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

## AUTHORIZED BANDEDGE (13 CHANNEL)

### HORIZONTAL PEAK AND AVERAGE PLOT



### HORIZONTAL DATA

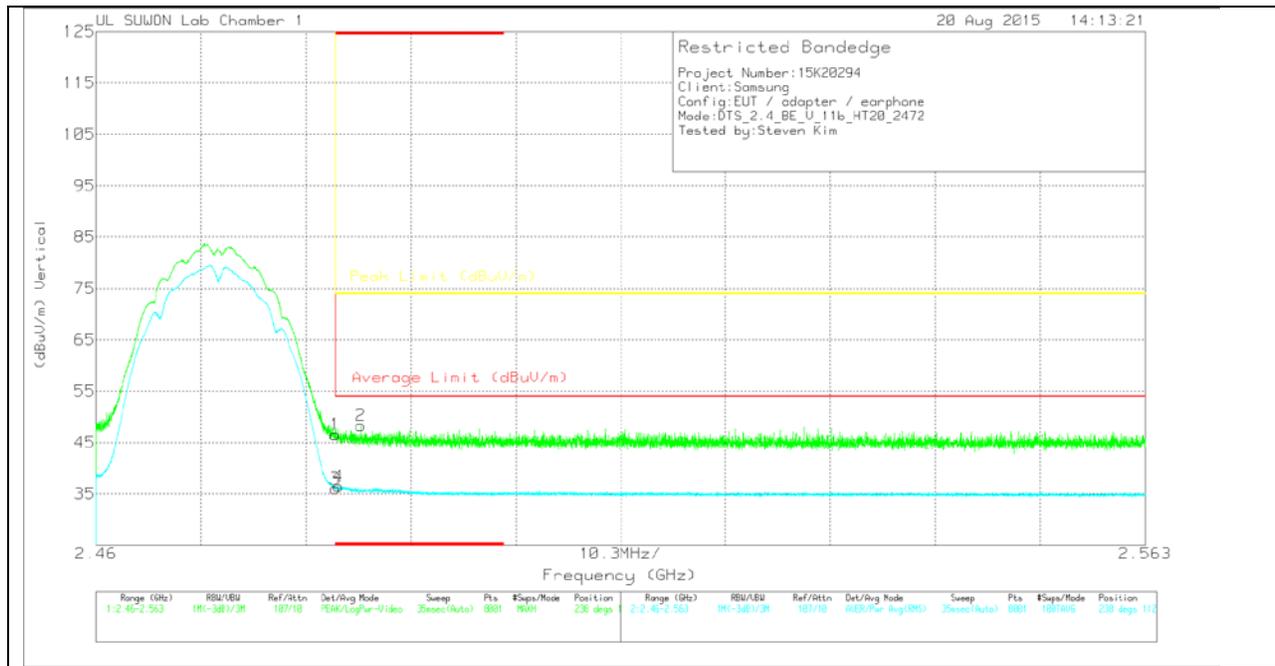
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3115D Factor	10dB_Path2	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	46.39	Pk	27.9	-22.5	0	51.79	-	-	74	-22.21	22	107	H
2	* 2.484	46.75	Pk	27.9	-22.5	0	52.15	-	-	74	-21.85	22	107	H
3	* 2.484	37.13	RMS	27.9	-22.5	0	42.53	54	-11.47	-	-	22	107	H
4	* 2.484	37.16	RMS	27.9	-22.5	0	42.56	54	-11.44	-	-	22	107	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

**VERTICAL PEAK AND AVERAGE PLOT**



**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3115D Factor	10dB_Path2	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	41.16	Pk	27.9	-22.5	0	46.56	-	-	74	-27.44	238	112	V
2	* 2.486	42.92	Pk	27.9	-22.5	0	48.32	-	-	74	-25.68	238	112	V
3	* 2.484	30.64	RMS	27.9	-22.5	0	36.04	54	-17.96	-	-	238	112	V
4	* 2.484	31.06	RMS	27.9	-22.5	0	36.46	54	-17.54	-	-	238	112	V

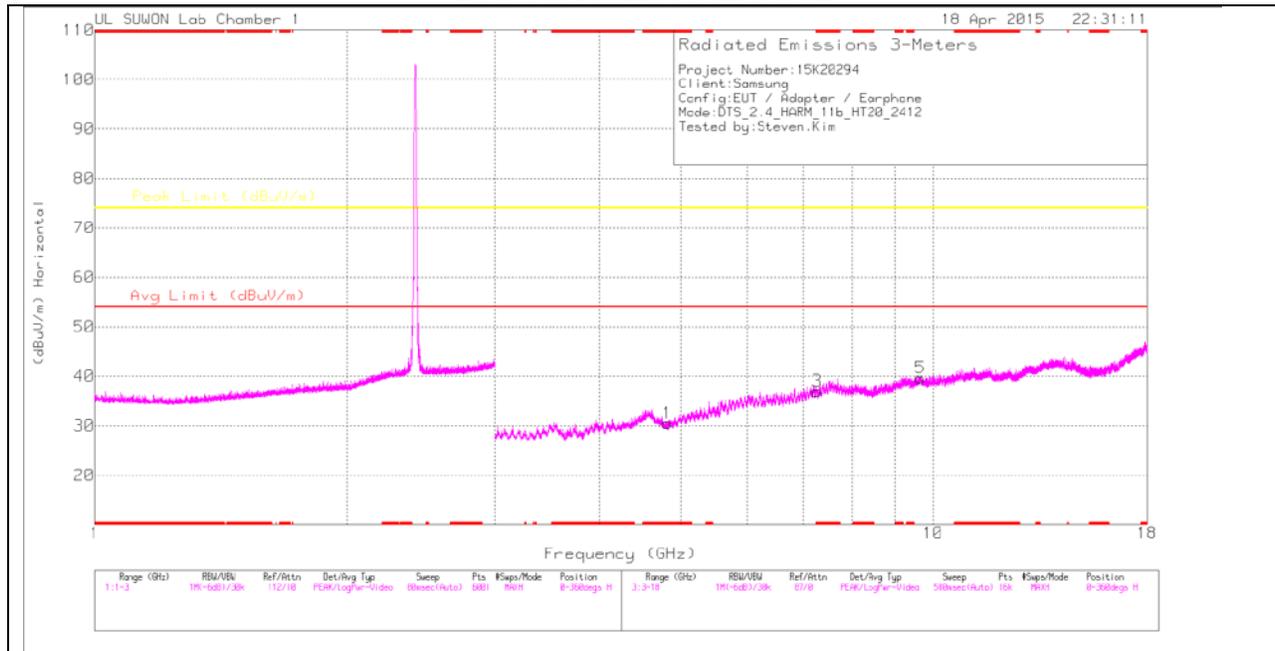
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

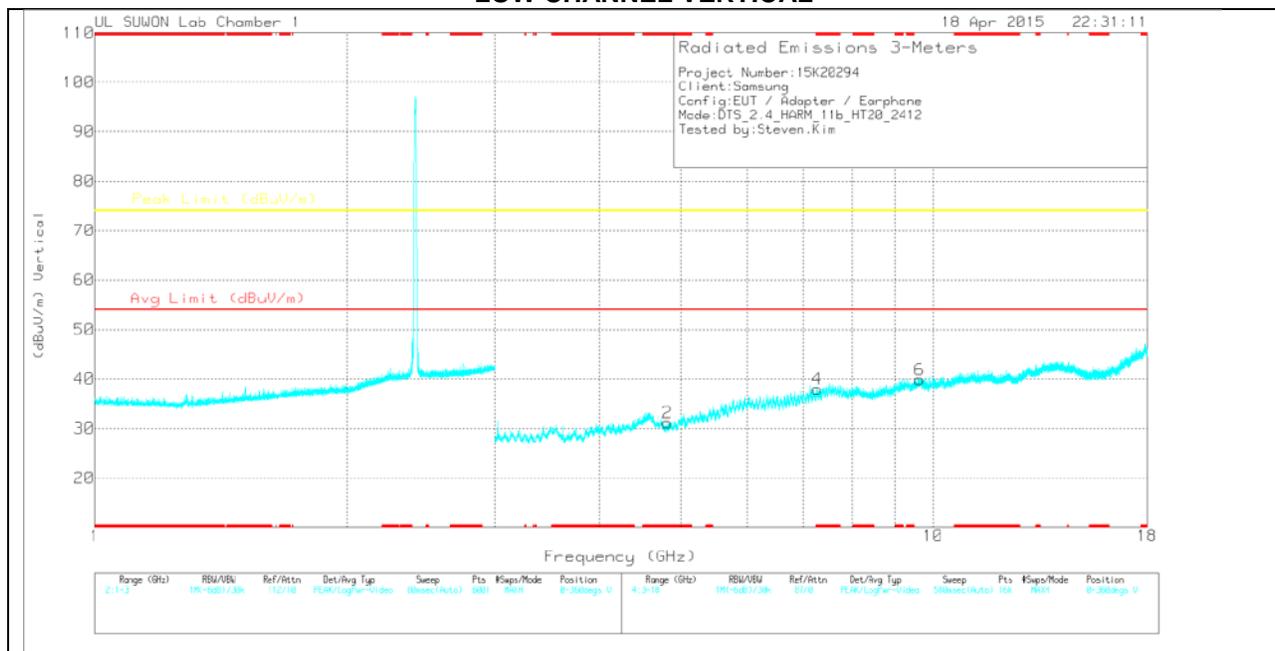
RMS - RMS detection

## 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

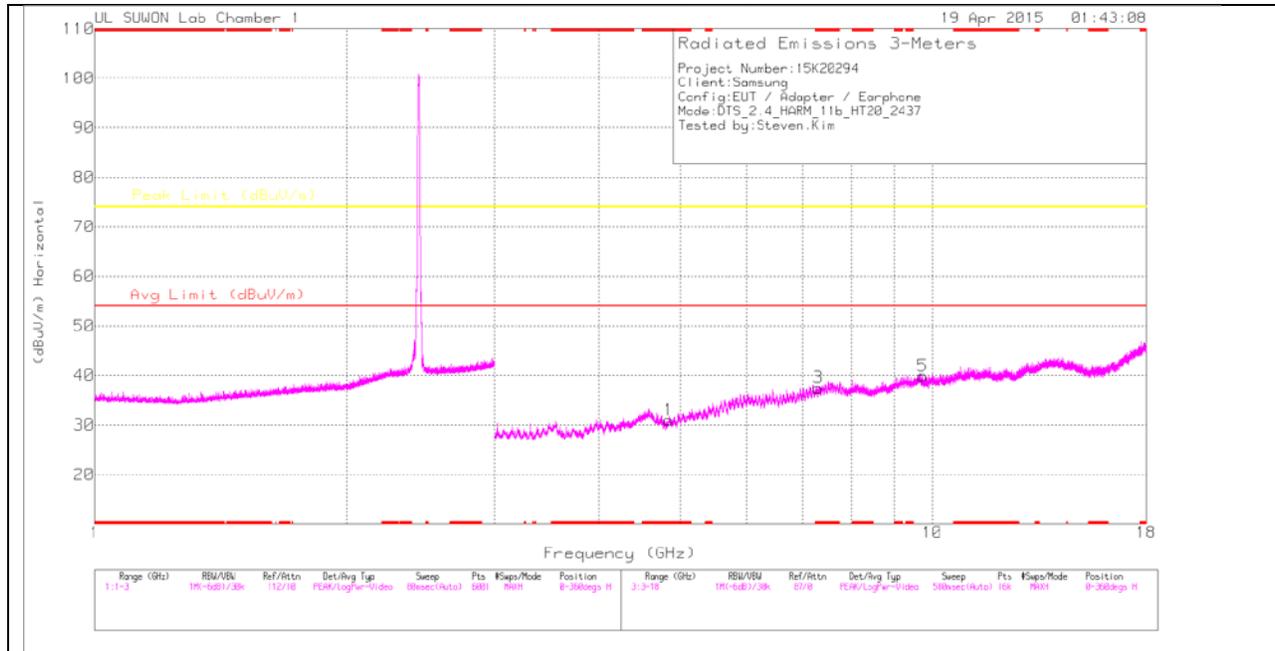
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3115D Factor	Path_3_3GHP	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.823	28.22	PK	31.9	-29.6	0	30.52	-	-	74	-43.48	0-360	100	H
3	* 7.273	25.51	PK	37.1	-25.6	0	37.01	-	-	74	-36.99	0-360	100	H
5	9.649	22.87	PK	37.6	-20.8	0	39.67	-	-	-	-	0-360	200	H
2	* 4.822	28.83	PK	31.9	-29.6	0	31.13	-	-	74	-42.87	0-360	200	V
4	* 7.269	26.49	PK	37.1	-25.6	0	37.99	-	-	74	-36.01	0-360	200	V
6	9.647	23.01	PK	37.6	-20.8	0	39.81	-	-	-	-	0-360	200	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

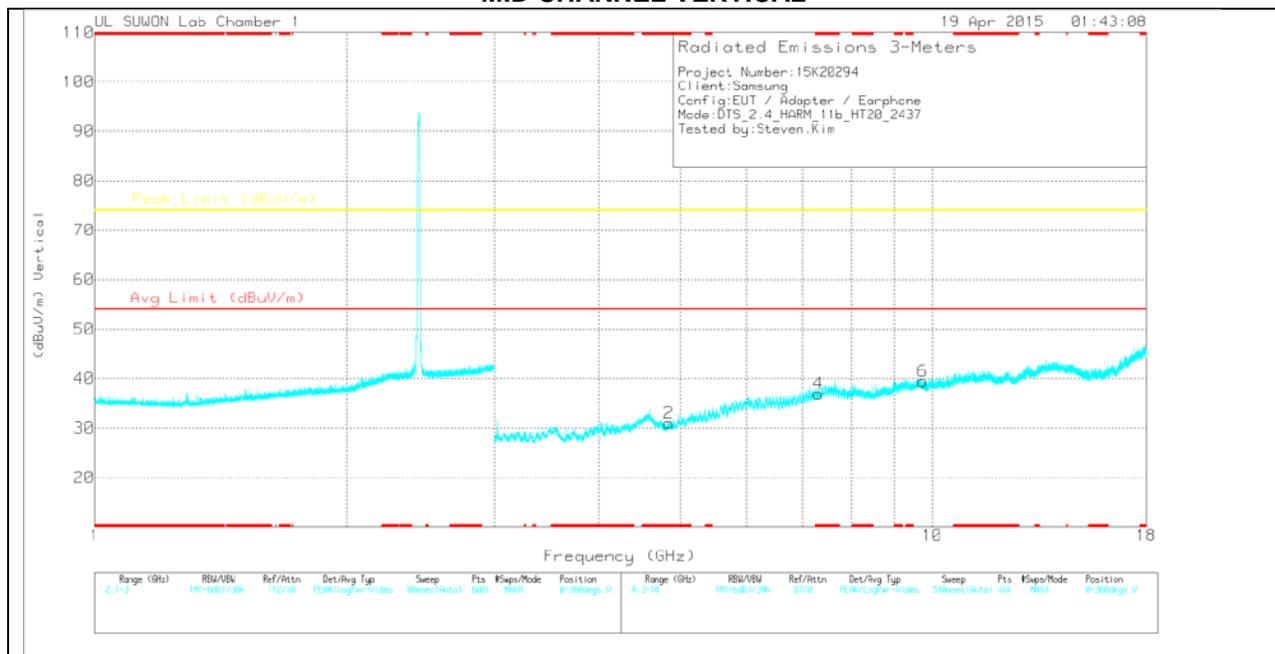
PK – Peak Detector

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*

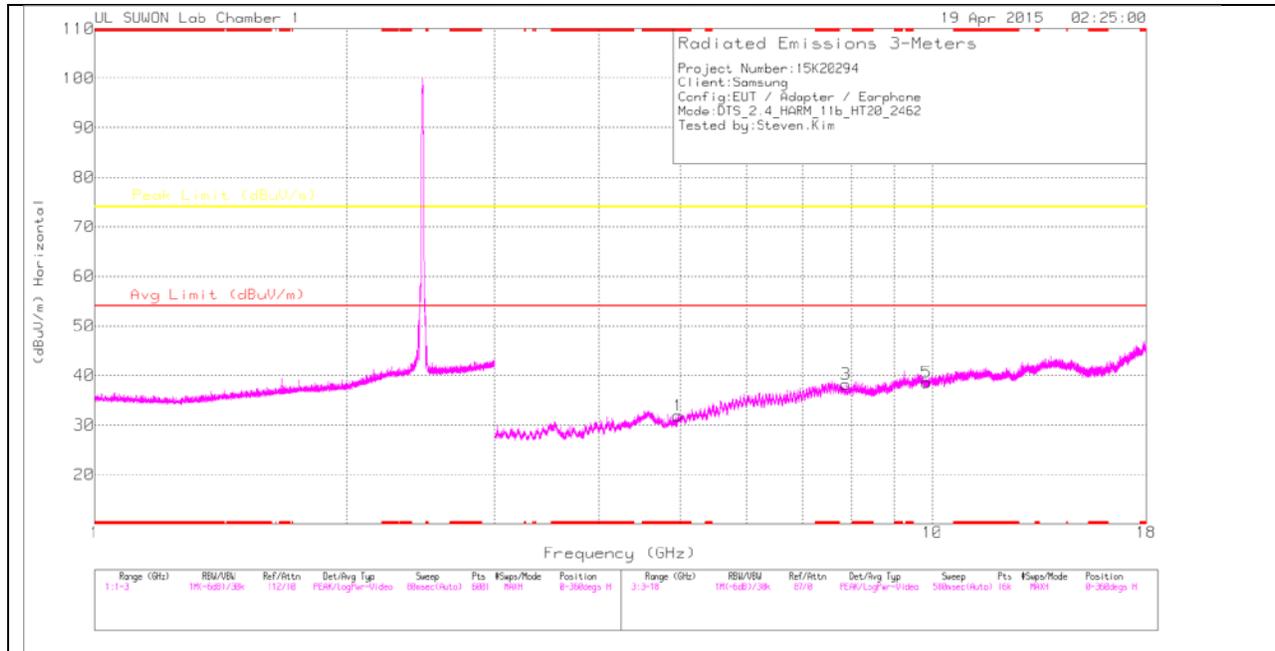
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3115D Factor	Path_3_3GHP	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.848	28.29	PK	32	-29.3	0	30.99	-	-	74	-43.01	0-360	100	H
3	* 7.313	26.12	PK	37.1	-25.7	0	37.52	-	-	74	-36.48	0-360	200	H
5	9.742	24.12	PK	37.6	-21.8	0	39.92	-	-	-	-	0-360	200	H
2	* 4.845	28.34	PK	32	-29.3	0	31.04	-	-	74	-42.96	0-360	200	V
4	* 7.308	25.54	PK	37.1	-25.7	0	36.94	-	-	74	-37.06	0-360	200	V
6	9.735	23.52	PK	37.6	-21.7	0	39.42	-	-	-	-	0-360	100	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

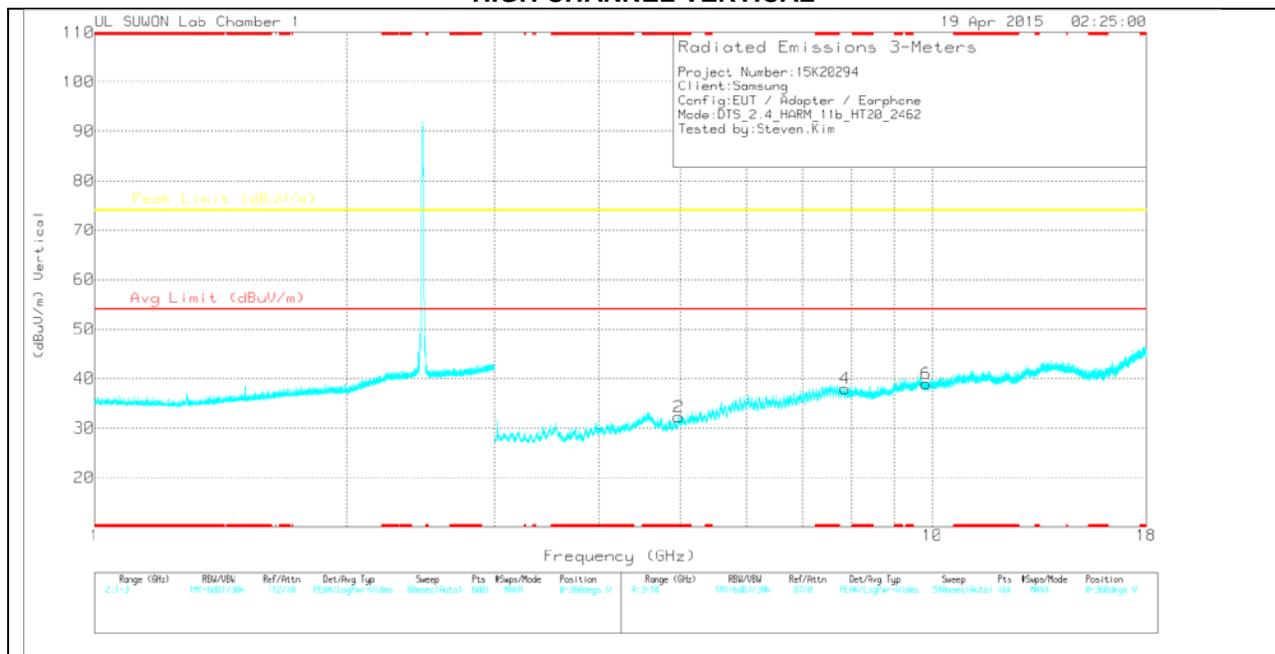
PK – Peak Detector

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*

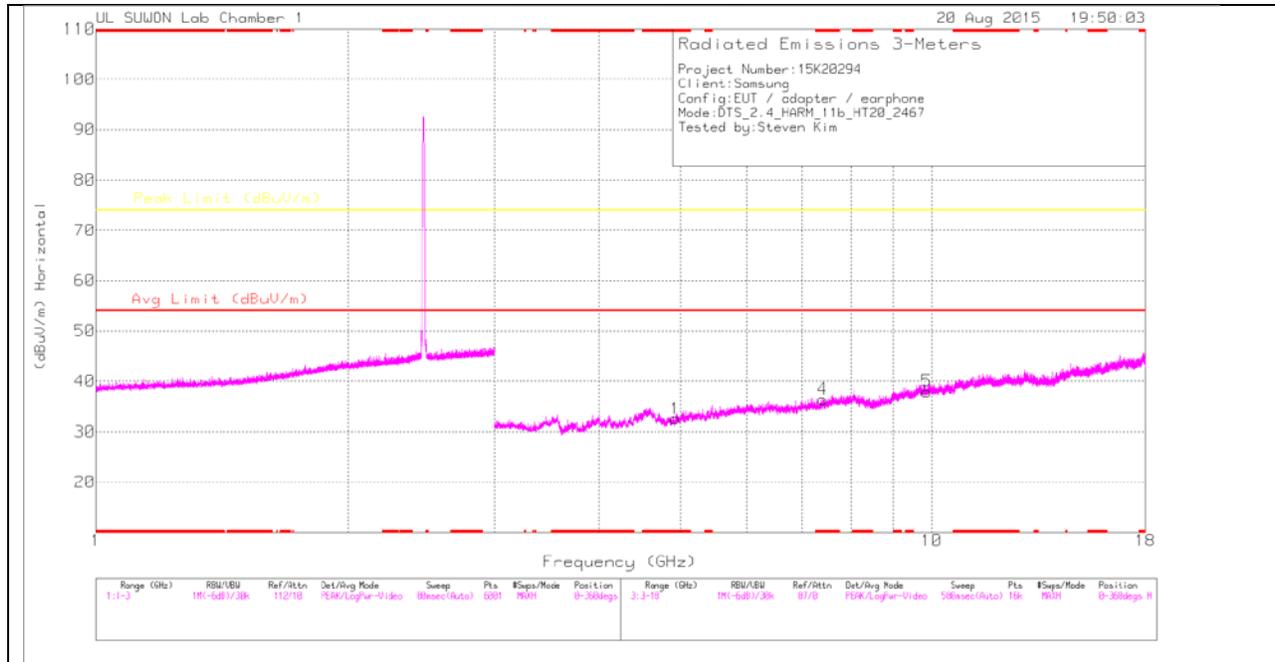
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3115D Factor	Path_3_3GHP	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.969	28.55	PK	32.1	-28.8	0	31.85	-	-	74	-42.15	0-360	200	H
3	7.881	25.59	PK	37	-24.4	0	38.19	-	-	-	-	0-360	100	H
5	9.835	22.65	PK	37.7	-21.8	0	38.55	-	-	-	-	0-360	100	H
2	* 4.977	28.77	PK	32.2	-28.7	0	32.27	-	-	74	-41.73	0-360	200	V
4	7.877	25.32	PK	37	-24.4	0	37.92	-	-	-	-	0-360	100	V
6	9.826	23.14	PK	37.7	-21.9	0	38.94	-	-	-	-	0-360	100	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

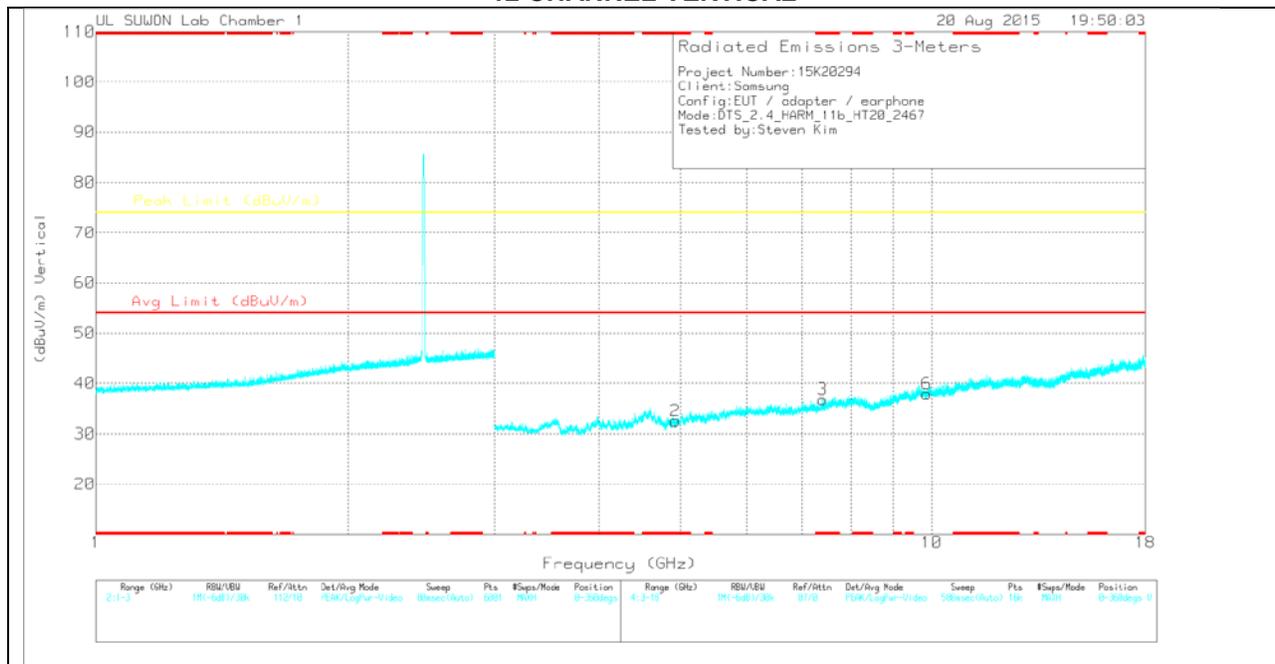
PK – Peak Detector

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

### 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*

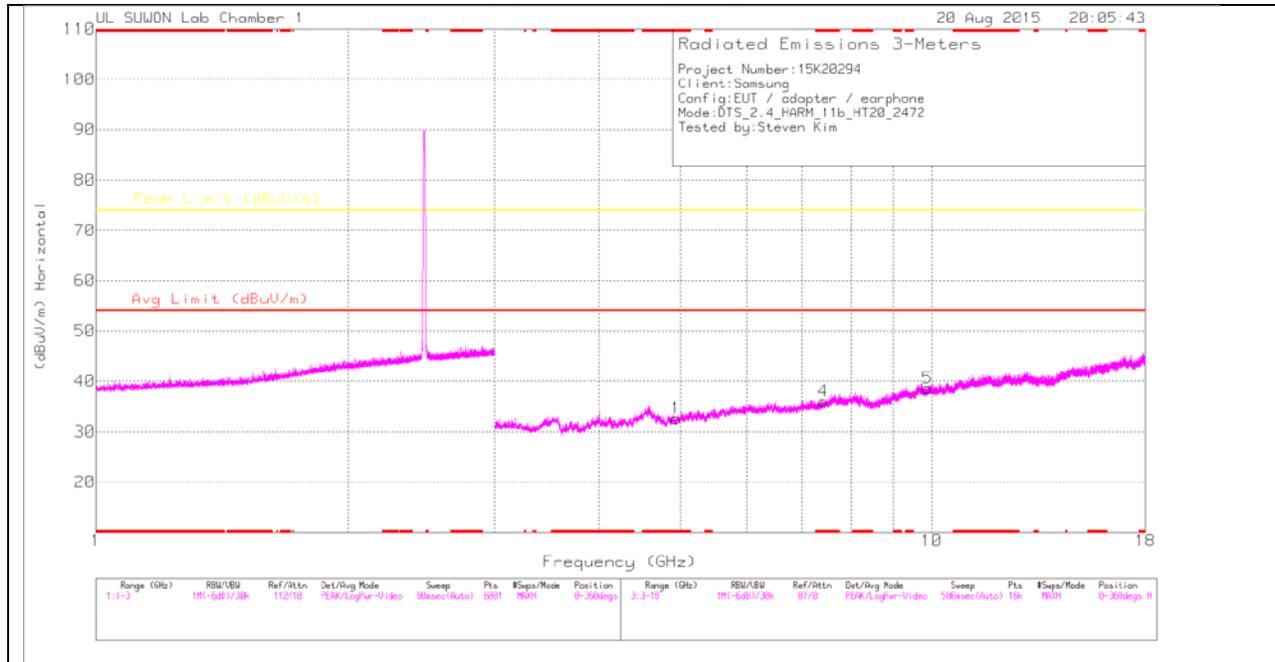
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 17_150619)	Path_3_3GHP	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.933	27.58	PK	34	-29	0	32.58	-	-	74	-41.42	0-360	200	H
4	* 7.403	25.65	PK	35.8	-25	0	36.45	-	-	74	-37.55	0-360	200	H
5	9.867	21.99	PK	37.3	-21.3	0	37.99	-	-	74	-36.01	0-360	100	H
2	* 4.931	27.53	PK	34	-29	0	32.53	-	-	74	-41.47	0-360	200	V
3	* 7.402	26.04	PK	35.8	-25	0	36.84	-	-	74	-37.16	0-360	100	V
6	9.873	21.73	PK	37.3	-21.1	0	37.93	-	-	74	-36.07	0-360	200	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

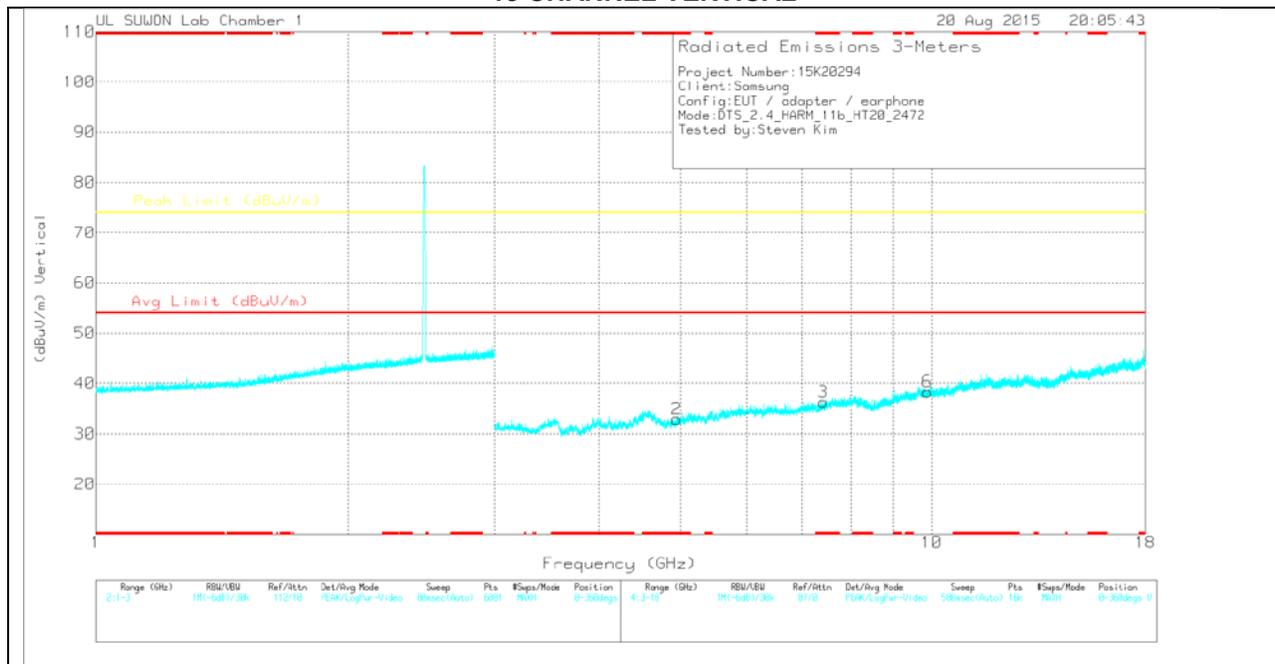
PK – Peak detector

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

### 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	3117(001687 17_150619)	Path_3_3GHP	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	* 4.945	27.64	PK	34	-29	0	32.64	-	-	74	-41.36	0-360	100	H
4	* 7.418	25.17	PK	35.8	-24.9	0	36.07	-	-	74	-37.93	0-360	100	H
5	9.886	22.28	PK	37.3	-20.9	0	38.68	-	-	74	-35.32	0-360	200	H
2	* 4.951	27.91	PK	34	-29	0	32.91	-	-	74	-41.09	0-360	200	V
3	* 7.418	25.39	PK	35.8	-24.9	0	36.29	-	-	74	-37.71	0-360	100	V
6	9.889	21.83	PK	37.3	-20.8	0	38.33	-	-	74	-35.67	0-360	100	V

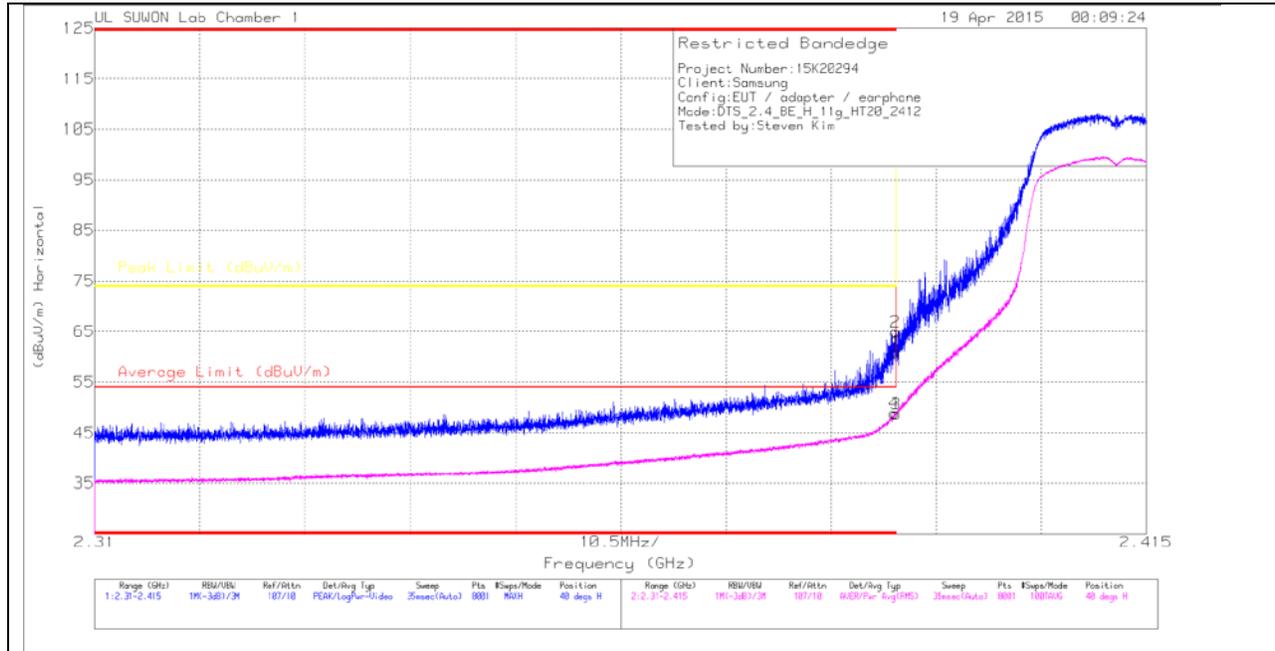
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

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 802.11g MODE IN THE 2.4 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

### HORIZONTAL PEAK AND AVERAGE PLOT



### HORIZONTAL DATA

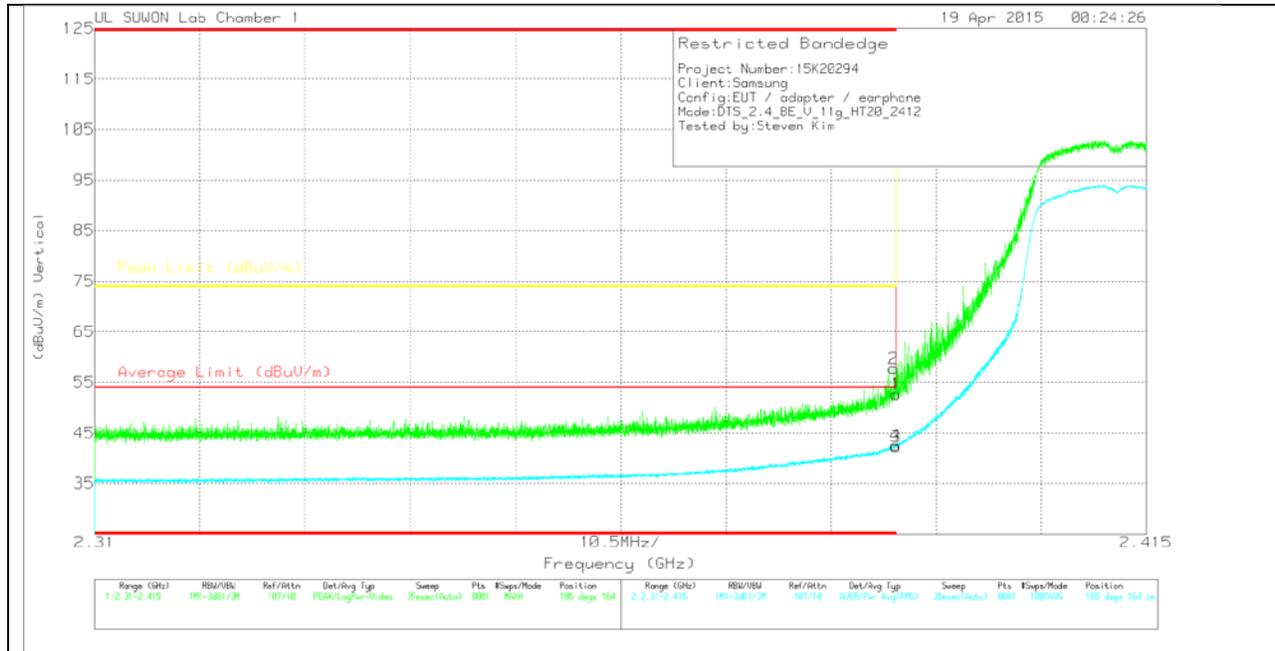
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3115D Factor	Path_2_10dB	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	55.9	PK	27.9	-22.8	0	61	-	-	74	-13	40	101	H
2	* 2.39	59.87	Pk	27.9	-22.8	0	64.97	-	-	74	-9.03	40	101	H
3	* 2.39	43.47	RMS	27.9	-22.8	.17	48.74	54	-5.26	-	-	40	101	H
4	* 2.39	43.6	RMS	27.9	-22.8	.17	48.87	54	-5.13	-	-	40	101	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

**VERTICAL PEAK AND AVERAGE PLOT**



**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3115D Factor	Path_2_10dB	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	47.56	PK	27.9	-22.8	0	52.66	-	-	74	-21.34	185	164	V
2	* 2.39	52.62	PK	27.9	-22.8	0	57.72	-	-	74	-16.28	185	164	V
3	* 2.39	37.03	RMS	27.9	-22.8	.17	42.3	54	-11.7	-	-	185	164	V
4	* 2.39	37.32	RMS	27.9	-22.8	.17	42.59	54	-11.41	-	-	185	164	V

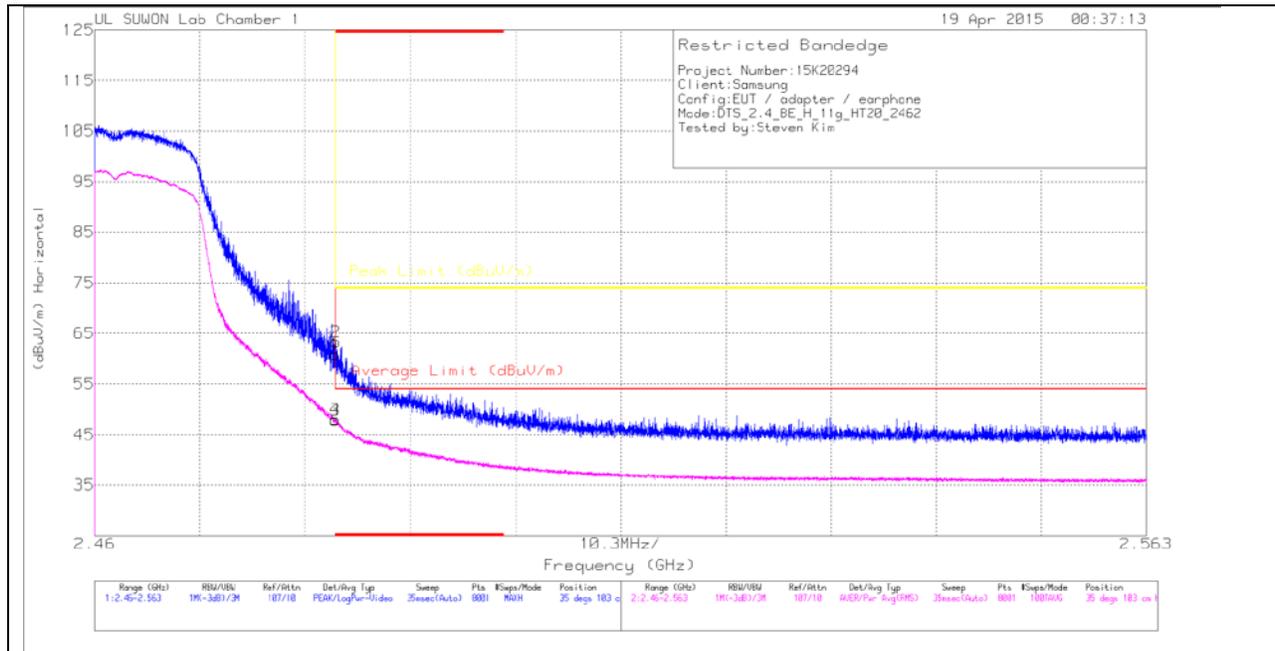
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

**AUTHORIZED BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL PEAK AND AVERAGE PLOT**



**HORIZONTAL DATA**

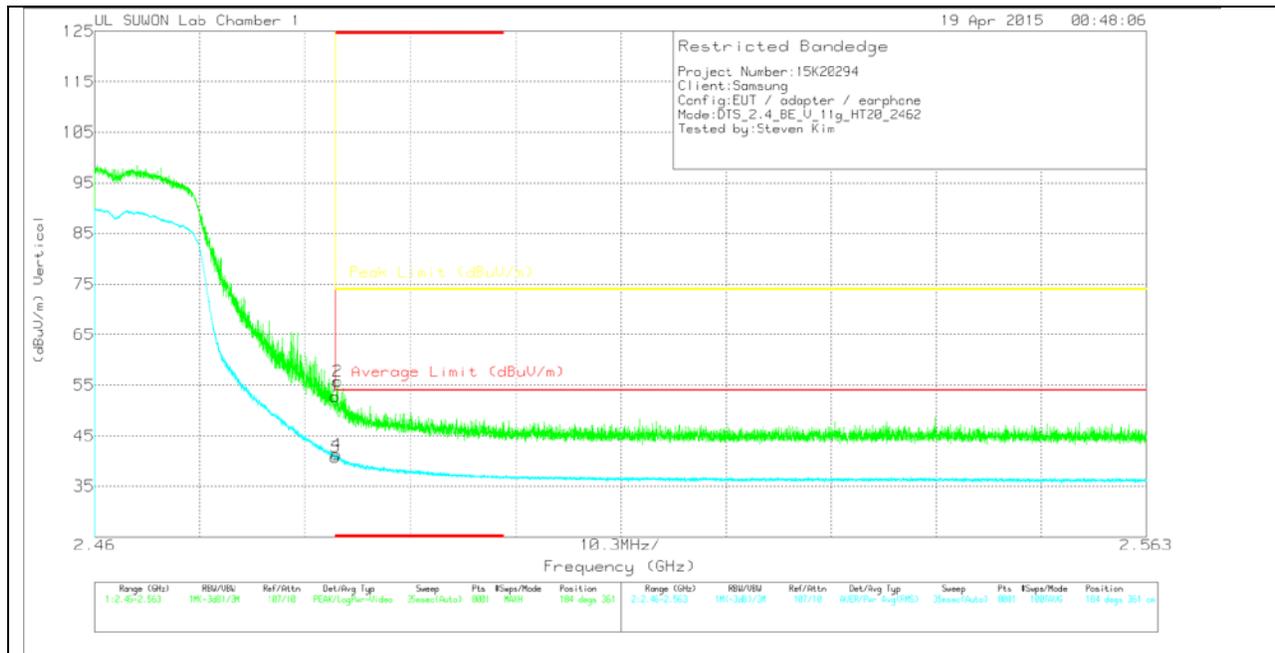
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3115D Factor	Path_2_10dB	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	55.54	Pk	27.9	-22.6	0	60.84	-	-	74	-13.16	35	103	H
2	* 2.484	57.97	Pk	27.9	-22.6	0	63.27	-	-	74	-10.73	35	103	H
3	* 2.484	42.36	RMS	27.9	-22.6	.17	47.83	54	-6.17	-	-	35	103	H
4	* 2.484	42.56	RMS	27.9	-22.6	.17	48.03	54	-5.97	-	-	35	103	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

**VERTICAL PEAK AND AVERAGE PLOT**



**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3115D Factor	Path_2_10dB	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	47.47	Pk	27.9	-22.6	0	52.77	-	-	74	-21.23	184	361	V
2	* 2.484	50.46	Pk	27.9	-22.6	0	55.76	-	-	74	-18.24	184	361	V
3	* 2.484	35.09	RMS	27.9	-22.6	.17	40.56	54	-13.44	-	-	184	361	V
4	* 2.484	35.67	RMS	27.9	-22.6	.17	41.14	54	-12.86	-	-	184	361	V

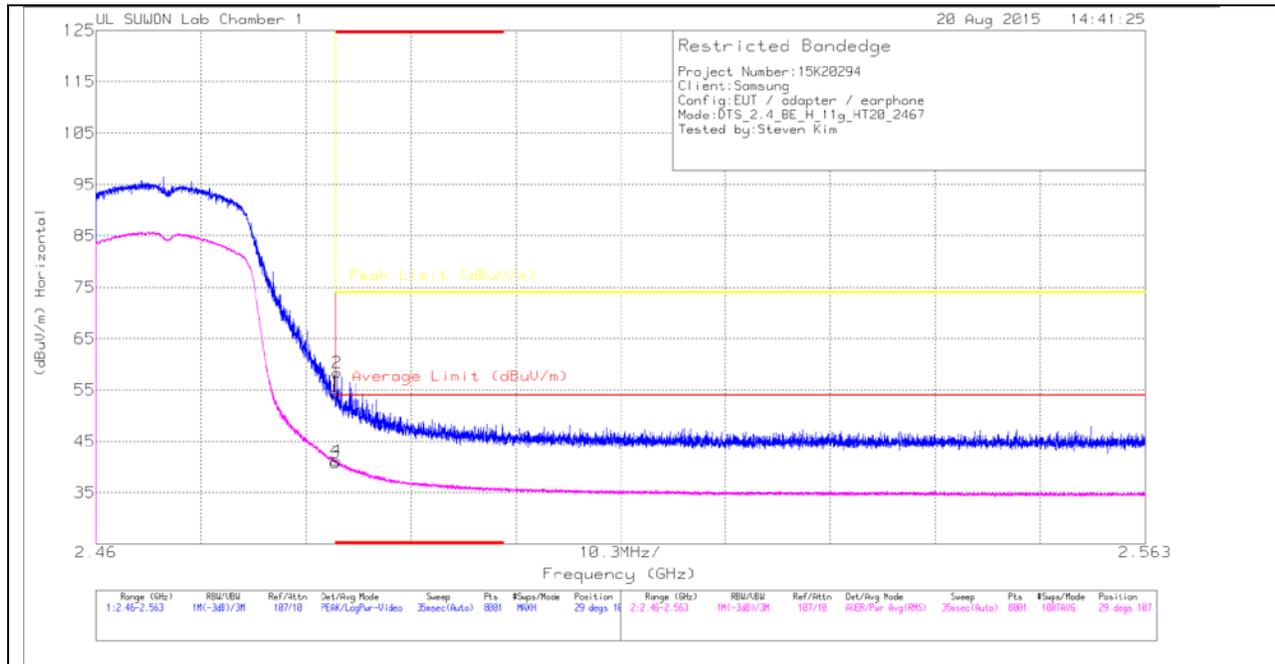
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

## AUTHORIZED BANDEDGE (12 CHANNEL)

### HORIZONTAL PEAK AND AVERAGE PLOT



### HORIZONTAL DATA

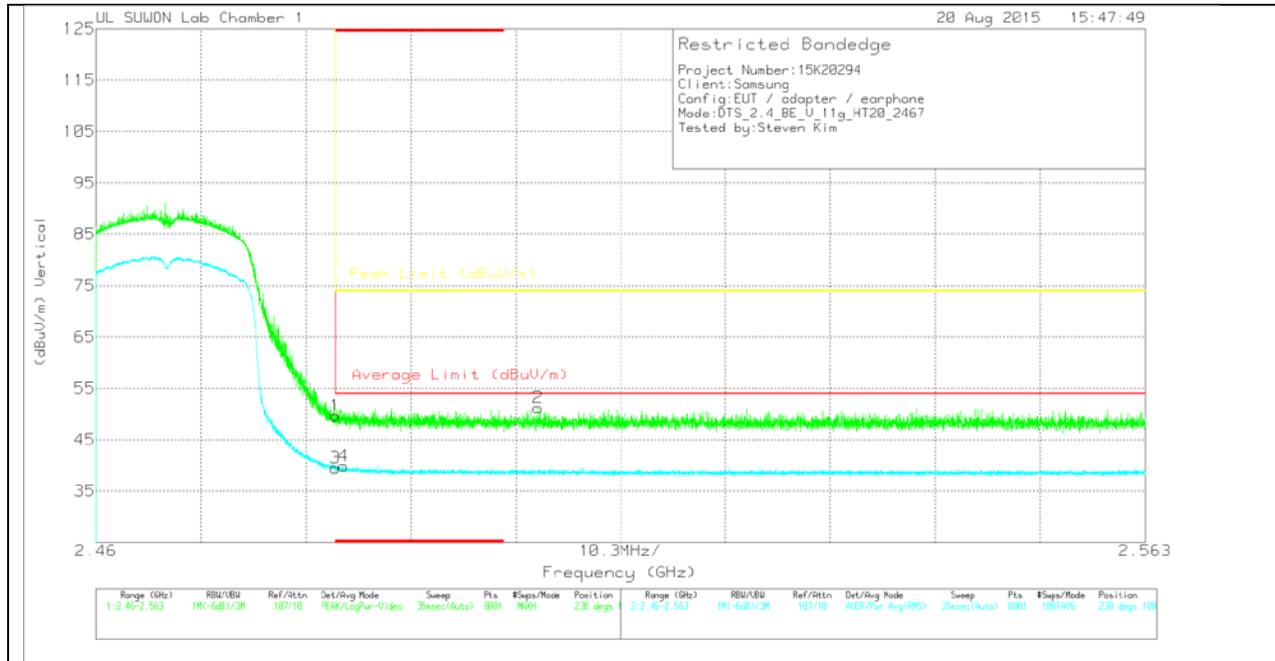
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3115D Factor	10dB_Path2	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	49.05	Pk	27.9	-22.5	0	54.45	-	-	74	-19.55	29	107	H
2	* 2.484	52.98	Pk	27.9	-22.5	0	58.38	-	-	74	-15.62	29	107	H
3	* 2.484	35.47	RMS	27.9	-22.5	0	40.87	54	-13.13	-	-	29	107	H
4	* 2.484	35.84	RMS	27.9	-22.5	0	41.24	54	-12.76	-	-	29	107	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

**VERTICAL PEAK AND AVERAGE PLOT**



**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117/00168 717/_15061 g	Path_2_10d B	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	40.29	Pk	32	-22.6	0	49.69	-	-	74	-24.31	238	100	V
2	2.503	41.87	Pk	32	-22.6	0	51.27	-	-	74	-22.73	238	100	V
3	* 2.484	29.93	RMS	32	-22.6	.17	39.5	54	-14.5	-	-	238	100	V
4	* 2.484	30.31	RMS	32	-22.6	.17	39.88	54	-14.12	-	-	238	100	V

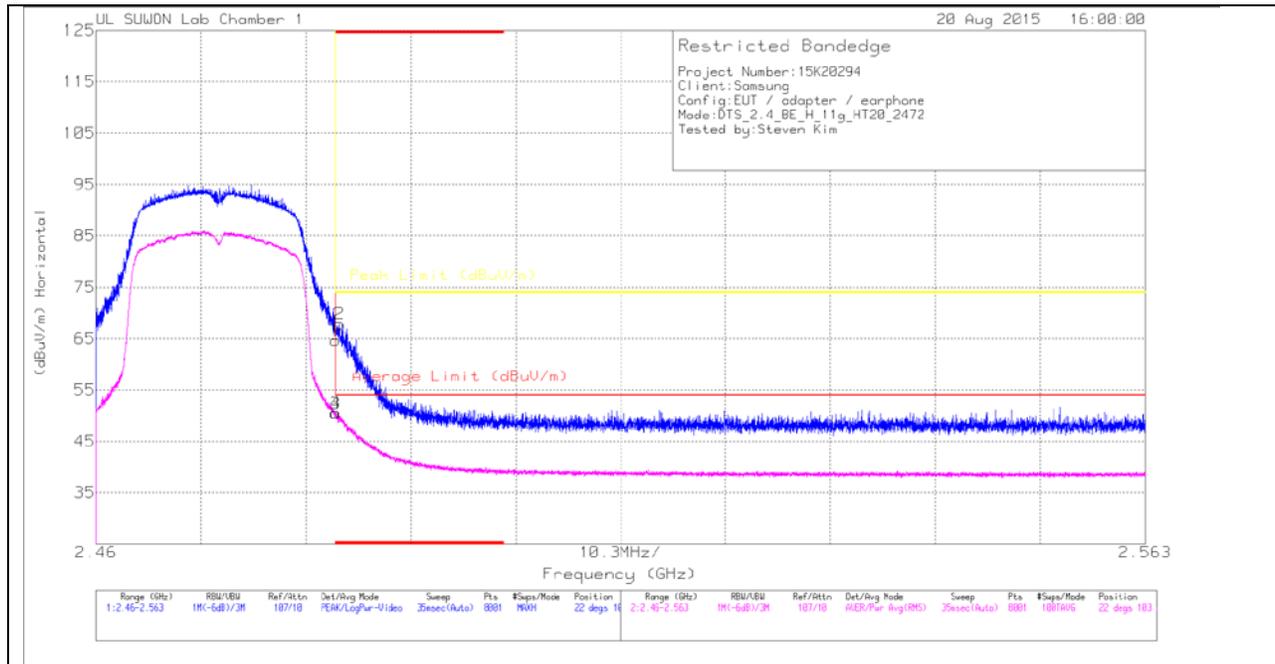
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

## AUTHORIZED BANDEDGE (13 CHANNEL)

### HORIZONTAL PEAK AND AVERAGE PLOT



### HORIZONTAL DATA

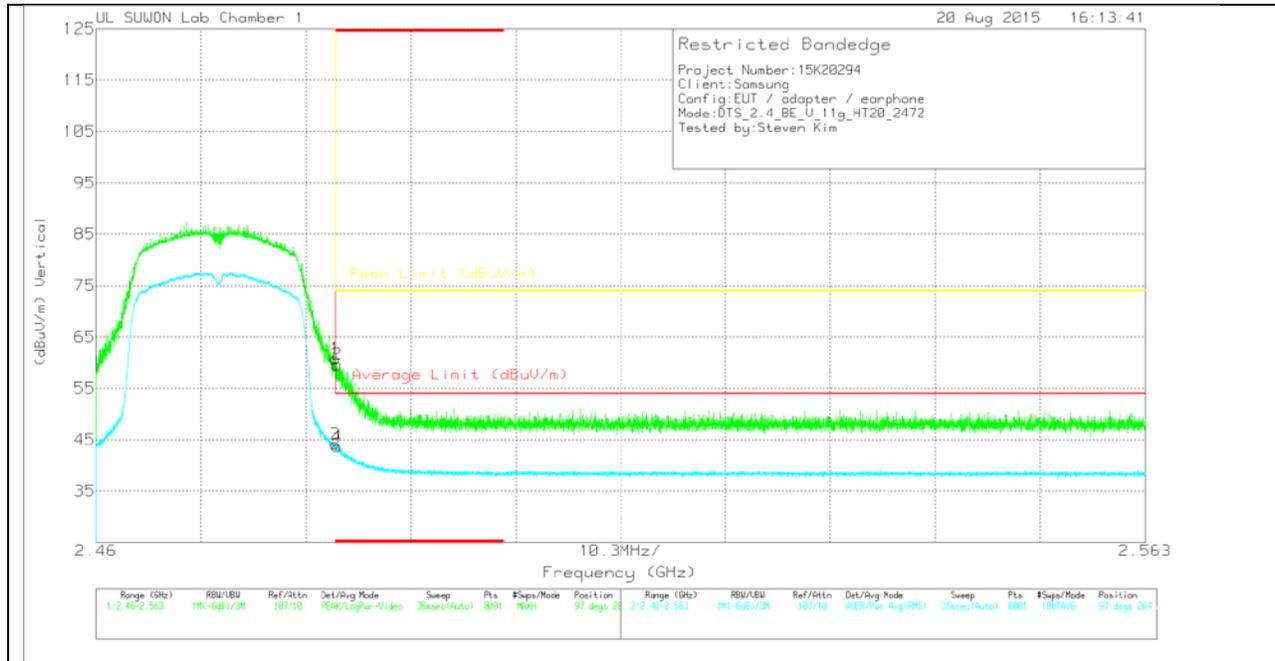
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 17)_150619	Path_2_10d B	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	55.21	Pk	32	-22.6	0	64.61	-	-	74	-9.39	22	103	H
2	* 2.484	58.45	Pk	32	-22.6	0	67.85	-	-	74	-6.15	22	103	H
3	* 2.484	40.88	RMS	32	-22.6	.17	50.45	54	-3.55	-	-	22	103	H
4	* 2.484	40.94	RMS	32	-22.6	.17	50.51	54	-3.49	-	-	22	103	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

**VERTICAL PEAK AND AVERAGE PLOT**



**VERTICAL DATA**

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_2_1 0dB	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarit y	Marker
1	* 2.484	51.42	Pk	32	-22.6	60.82	-	-	74	-13.18	97	264	V	1
2	* 2.484	50.29	Pk	32	-22.6	59.69	-	-	74	-14.31	97	264	V	2
3	* 2.484	34.75	RMS	32	-22.6	44.15	54	-9.85	-	-	97	264	V	3
4	* 2.484	34.24	RMS	32	-22.6	43.64	54	-10.36	-	-	97	264	V	4

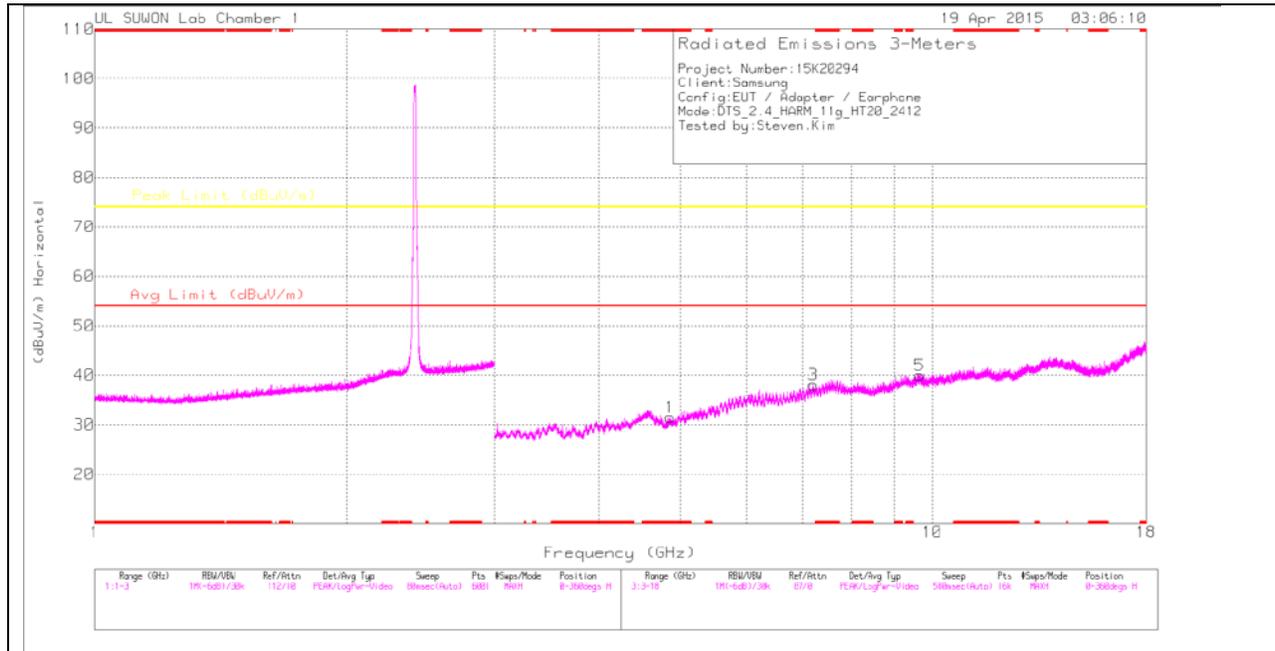
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

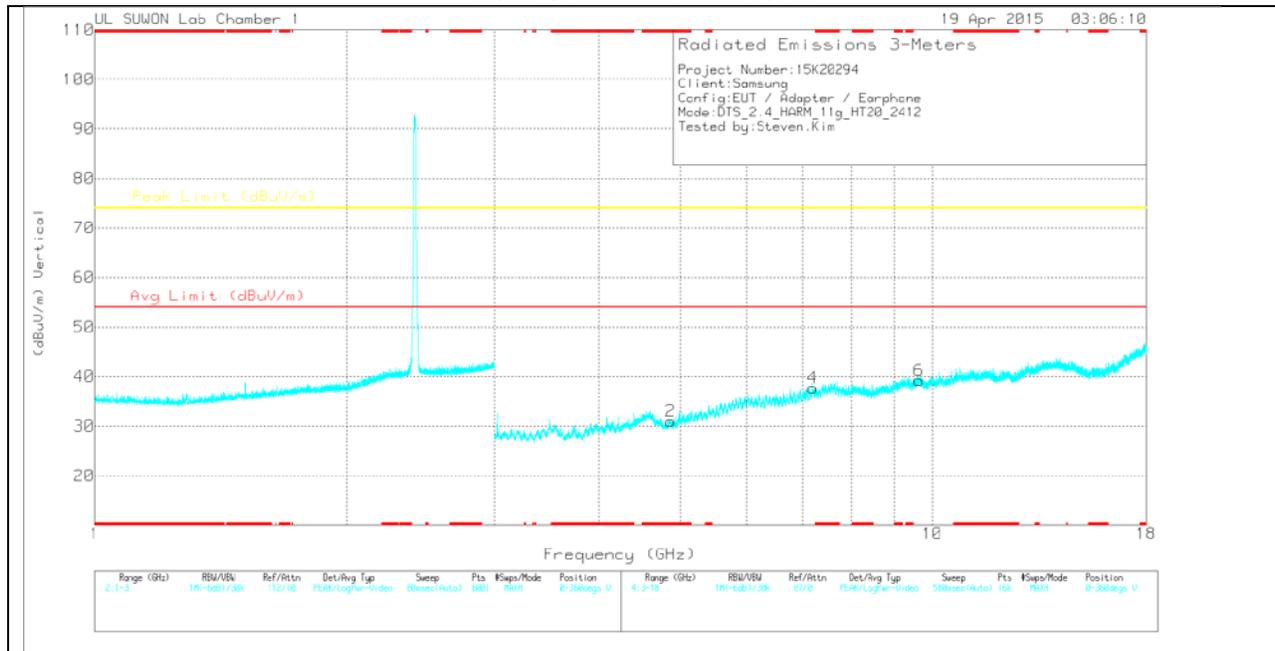
RMS - RMS detection

## 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*

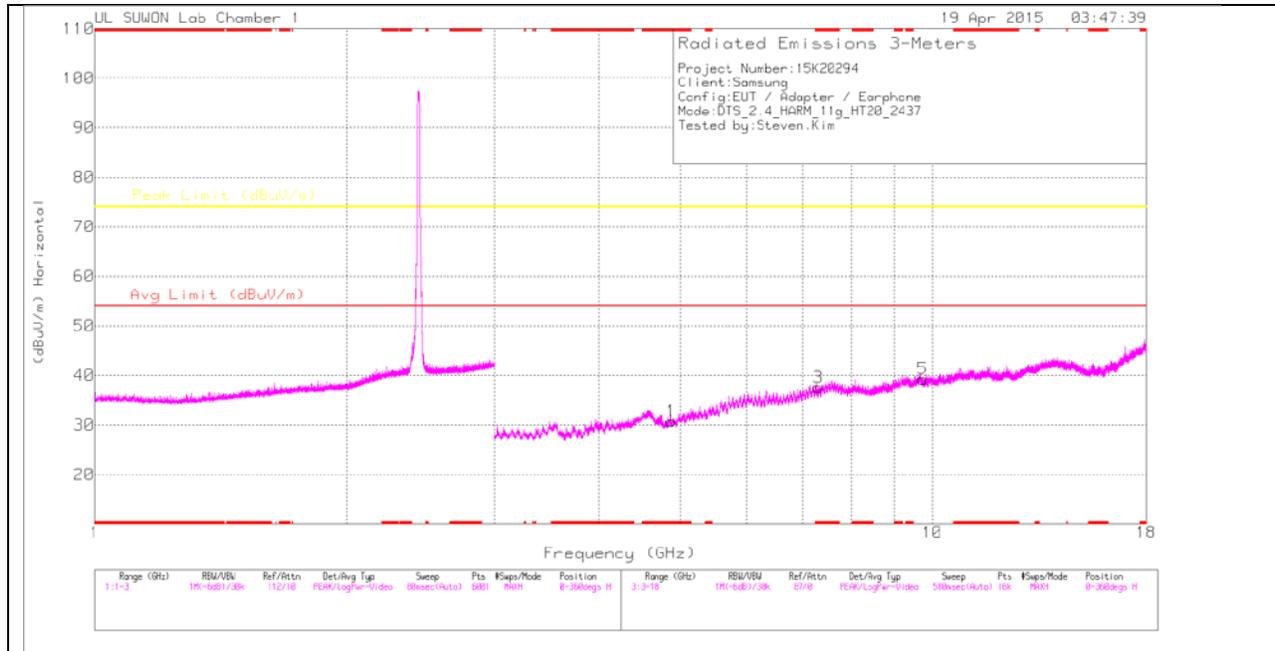
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3115D Factor	Path_3_3GHP	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.866	28.71	PK	32	-29.2	0	31.51	-	-	74	-42.49	0-360	100	H
3	7.207	26.48	PK	37	-25.4	0	38.08	-	-	-	-	0-360	100	H
5	9.655	23.22	PK	37.6	-20.8	0	40.02	-	-	-	-	0-360	100	H
2	* 4.868	28.23	PK	32	-29.2	0	31.03	-	-	74	-42.97	0-360	100	V
4	7.203	26.25	PK	36.9	-25.4	0	37.75	-	-	-	-	0-360	200	V
6	9.638	22.39	PK	37.6	-20.8	0	39.19	-	-	-	-	0-360	200	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

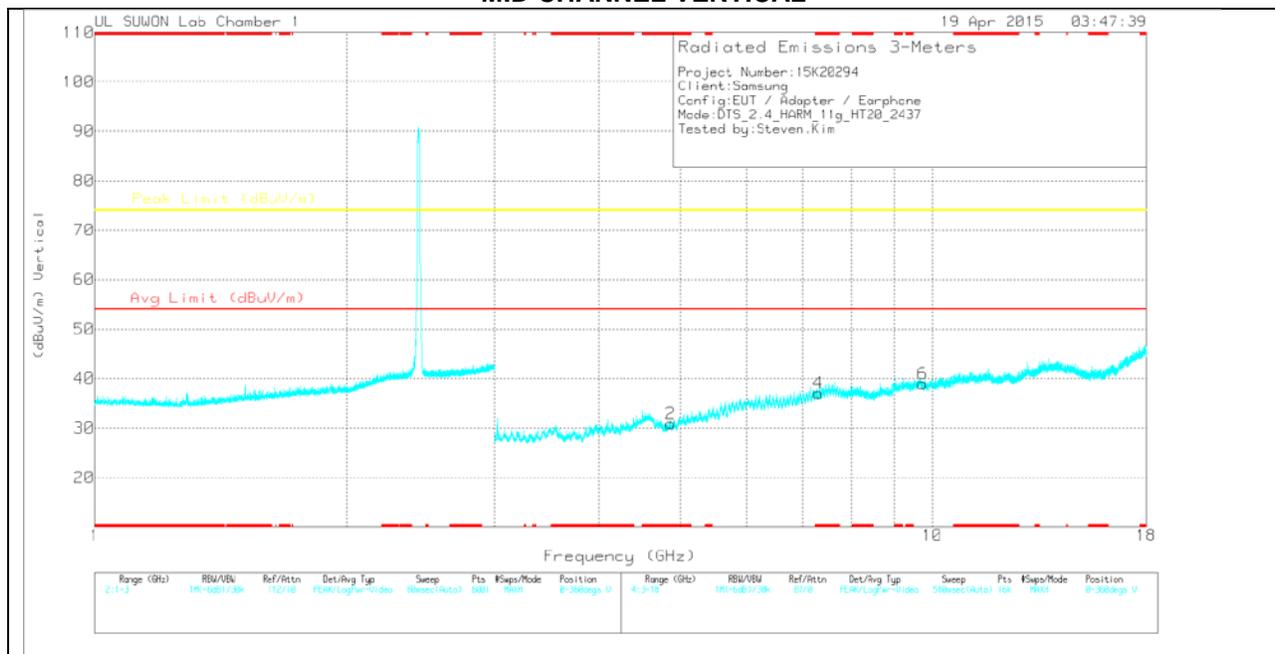
PK – Peak Detector

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*

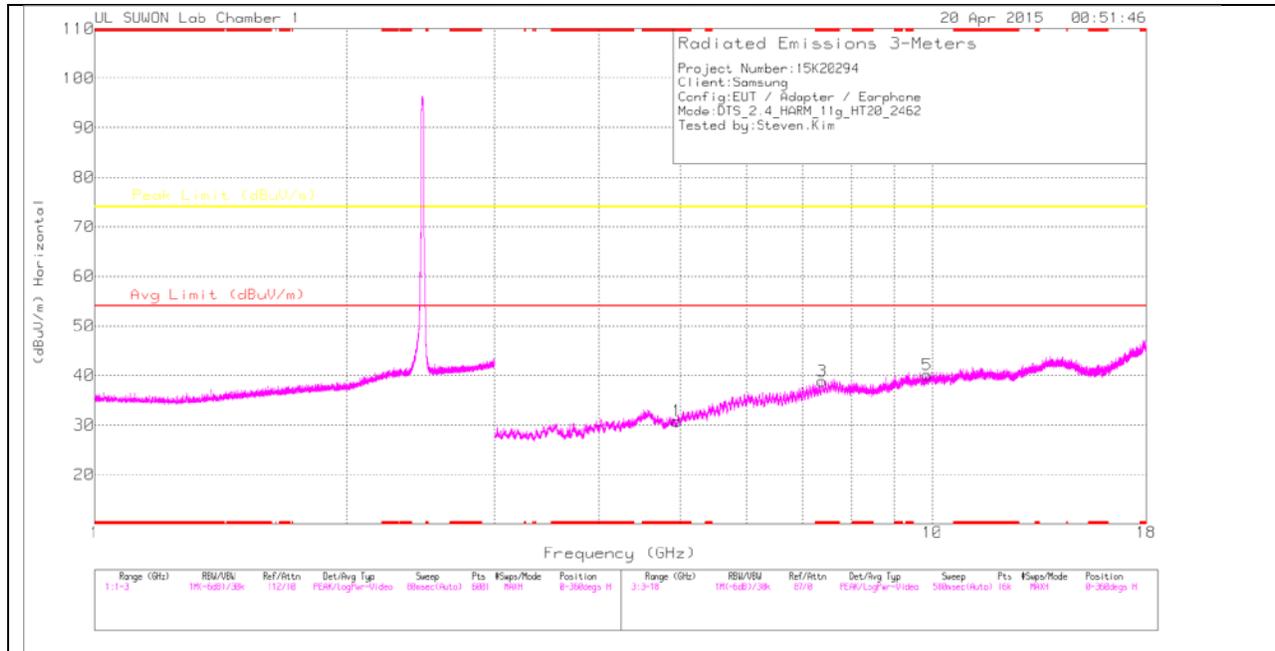
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3115D Factor	Path_3_3GHP	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.88	27.83	PK	32	-29.1	0	30.73	-	-	74	-43.27	0-360	200	H
3	* 7.313	26.2	PK	37.1	-25.7	0	37.6	-	-	74	-36.4	0-360	100	H
5	9.741	23.49	PK	37.6	-21.8	0	39.29	-	-	-	-	0-360	100	H
2	* 4.871	28.08	PK	32	-29.2	0	30.88	-	-	74	-43.12	0-360	100	V
4	* 7.311	25.71	PK	37.1	-25.7	0	37.11	-	-	74	-36.89	0-360	100	V
6	9.737	23.16	PK	37.6	-21.8	0	38.96	-	-	-	-	0-360	100	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

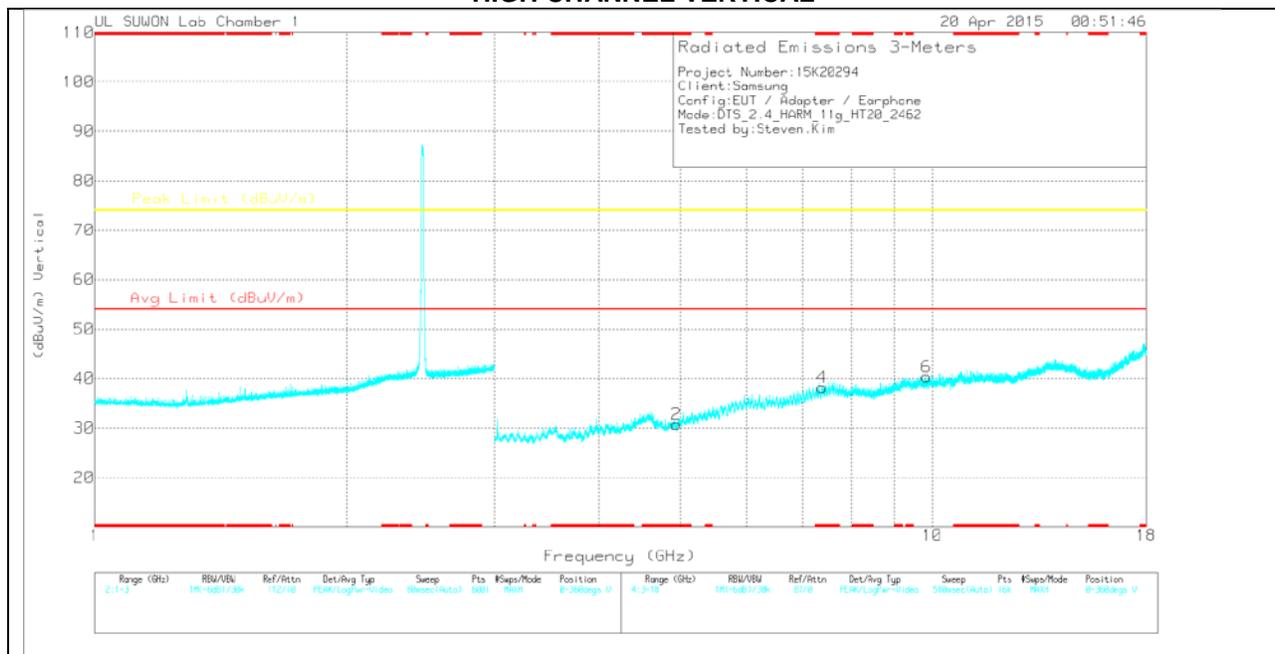
PK – Peak Detector

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*

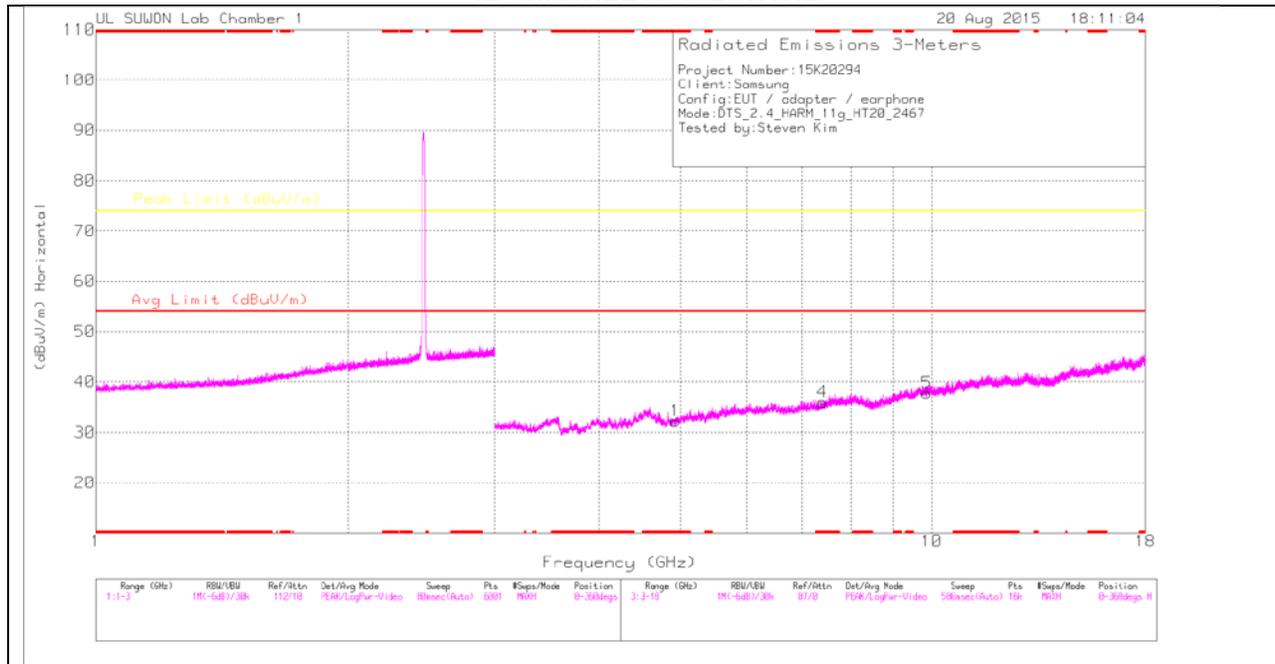
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3115D Factor	Path_3_3GHP	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.955	27.68	PK	32.1	-29	0	30.78	-	-	74	-43.22	0-360	100	H
3	* 7.39	26.67	PK	37.3	-25.1	0	38.87	-	-	74	-35.13	0-360	200	H
5	9.858	23.68	PK	37.8	-21.4	0	40.08	-	-	-	-	0-360	100	H
2	* 4.949	27.69	PK	32.1	-29	0	30.79	-	-	74	-43.21	0-360	200	V
4	* 7.391	26.06	PK	37.3	-25.1	0	38.26	-	-	74	-35.74	0-360	200	V
6	9.848	24.17	PK	37.8	-21.6	0	40.37	-	-	-	-	0-360	200	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

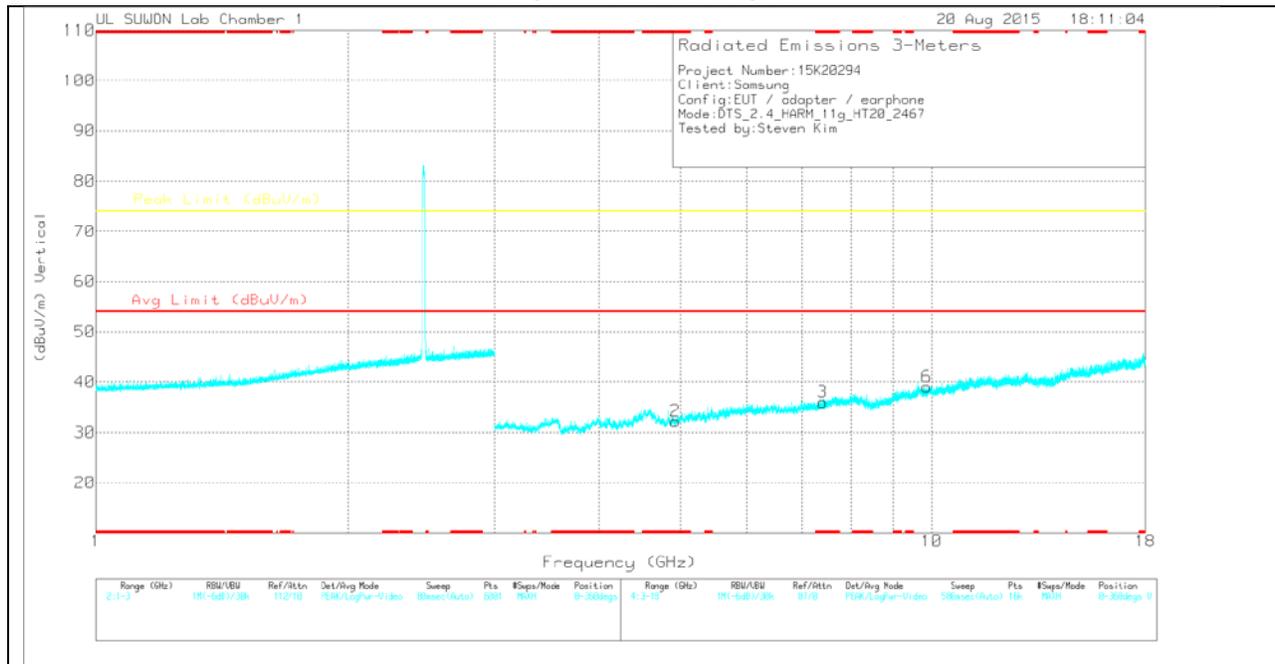
PK – Peak Detector

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

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*

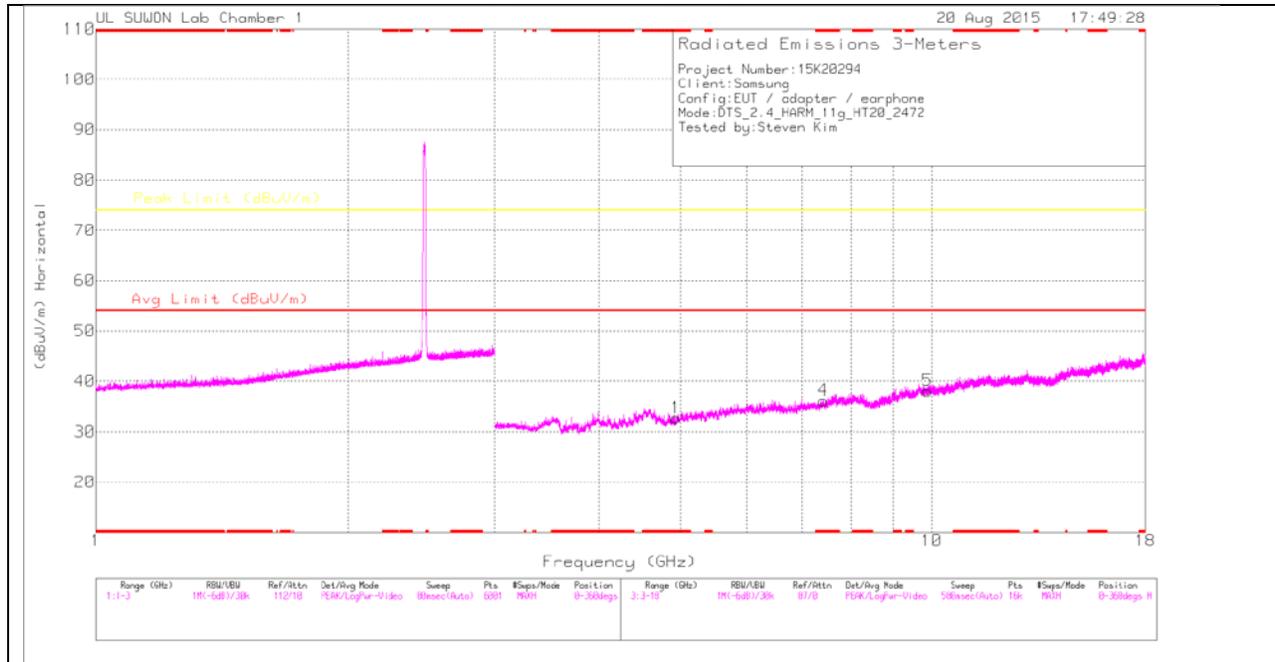
d	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168 717)_15061 9	Path_3_GHP	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.933	27.27	PK	34	-29	0	32.27	-	-	74	-41.73	0-360	100	H
4	* 7.398	25.22	PK	35.8	-25	0	36.02	-	-	74	-37.98	0-360	200	H
5	9.868	21.71	PK	37.3	-21.2	0	37.81	-	-	74	-36.19	0-360	100	H
2	* 4.931	27.24	PK	34	-29	0	32.24	-	-	74	-41.76	0-360	200	V
3	* 7.403	25.22	PK	35.8	-25	0	36.02	-	-	74	-37.98	0-360	100	V
6	9.865	23.08	PK	37.3	-21.3	0	39.08	-	-	74	-34.92	0-360	200	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

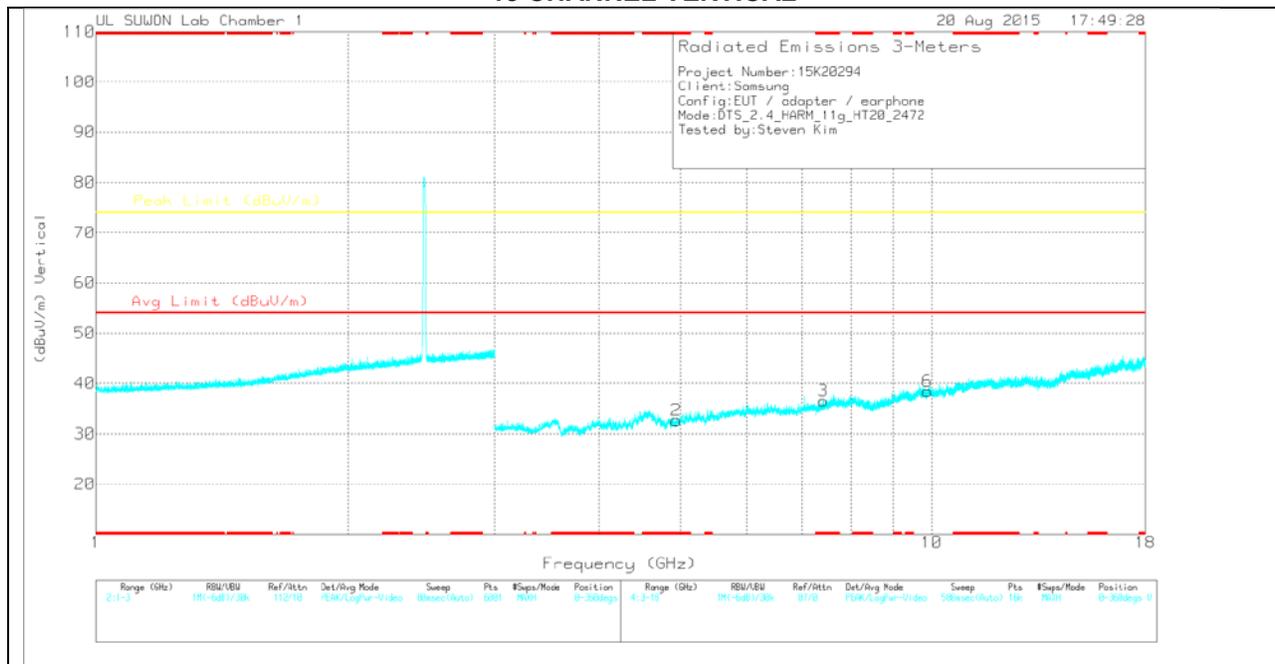
PK – Peak Detector

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

### 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	3117(001687 17_150619)	Path_3_3GHP	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	* 4.942	27.75	PK	34	-29	0	32.75	-	-	74	-41.25	0-360	100	H
4	* 7.417	25.34	PK	35.8	-24.9	0	36.24	-	-	74	-37.76	0-360	100	H
5	9.89	21.61	PK	37.3	-20.8	0	38.11	-	-	74	-35.89	0-360	200	H
2	* 4.945	27.66	PK	34	-29	0	32.66	-	-	74	-41.34	0-360	100	V
3	* 7.416	25.63	PK	35.8	-24.9	0	36.53	-	-	74	-37.47	0-360	200	V
6	9.893	21.7	PK	37.4	-20.7	0	38.4	-	-	74	-35.6	0-360	200	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

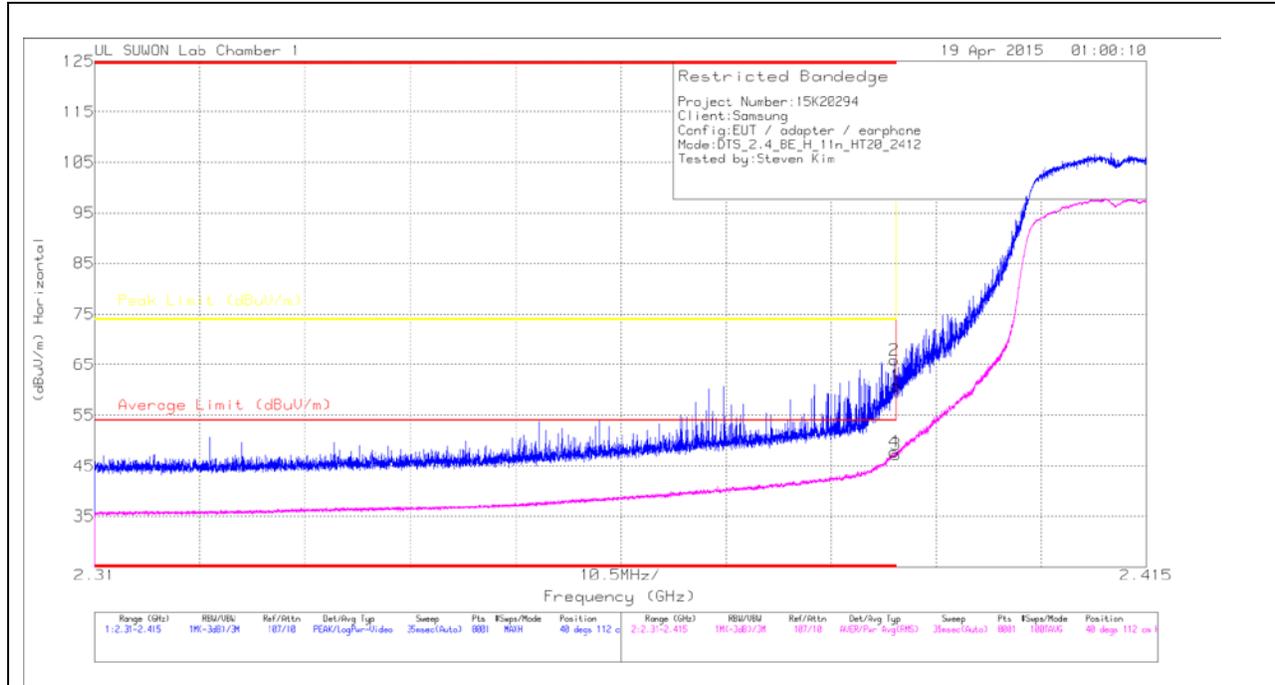
PK – Peak Detector

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

TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 2.4 GHz BAND

### RESTRICTED BANDEDGE (LOW CHANNEL)

#### HORIZONTAL PEAK AND AVERAGE PLOT



#### HORIZONTAL DATA

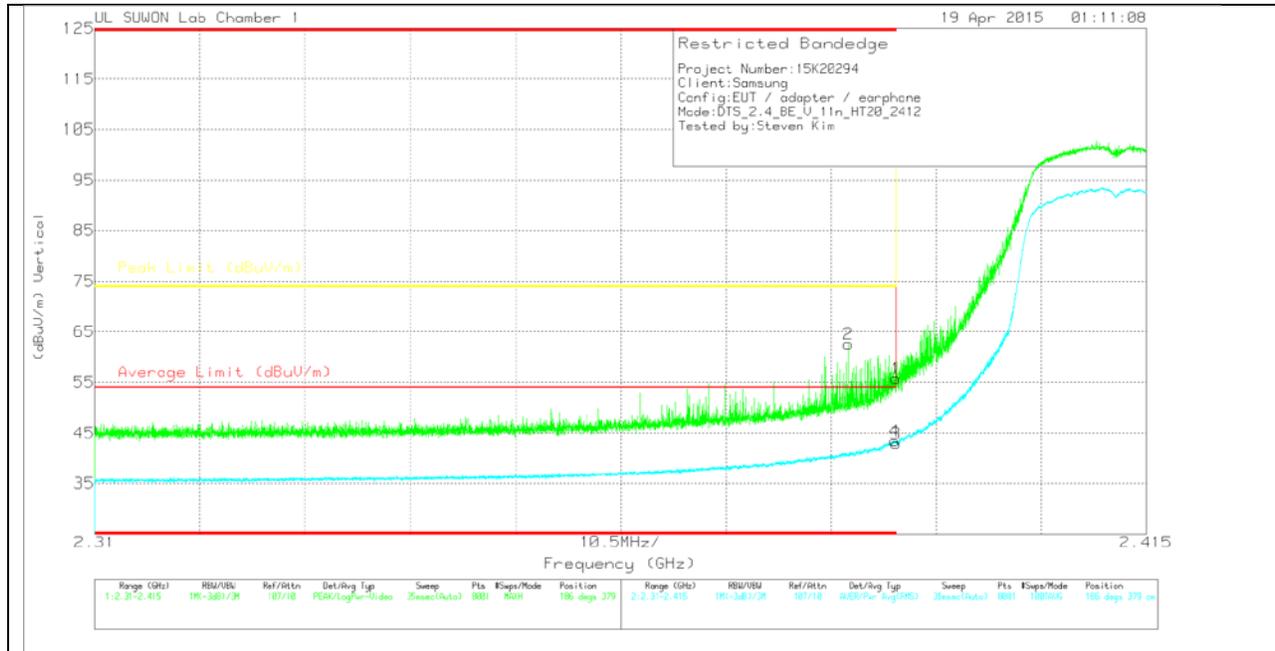
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3115D Factor	Path_2_10dB	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	55.73	Pk	27.9	-22.8	0	60.83	-	-	74	-13.17	40	112	H
2	* 2.39	60.83	PK	27.9	-22.8	0	65.93	-	-	74	-8.07	40	112	H
3	* 2.39	41.89	RMS	27.9	-22.8	.28	47.27	54	-6.73	-	-	40	112	H
4	* 2.39	42.35	RMS	27.9	-22.8	.28	47.73	54	-6.27	-	-	40	112	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

**VERTICAL PEAK AND AVERAGE PLOT**



**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3115D Factor	Path_2_10dB	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	50.7	PK	27.9	-22.8	0	55.8	-	-	74	-18.2	186	379	V
2	* 2.385	57.44	PK	27.9	-22.8	0	62.54	-	-	74	-11.46	186	379	V
3	* 2.39	37.48	RMS	27.9	-22.8	.28	42.86	54	-11.14	-	-	186	379	V
4	* 2.39	38.07	RMS	27.9	-22.8	.28	43.45	54	-10.55	-	-	186	379	V

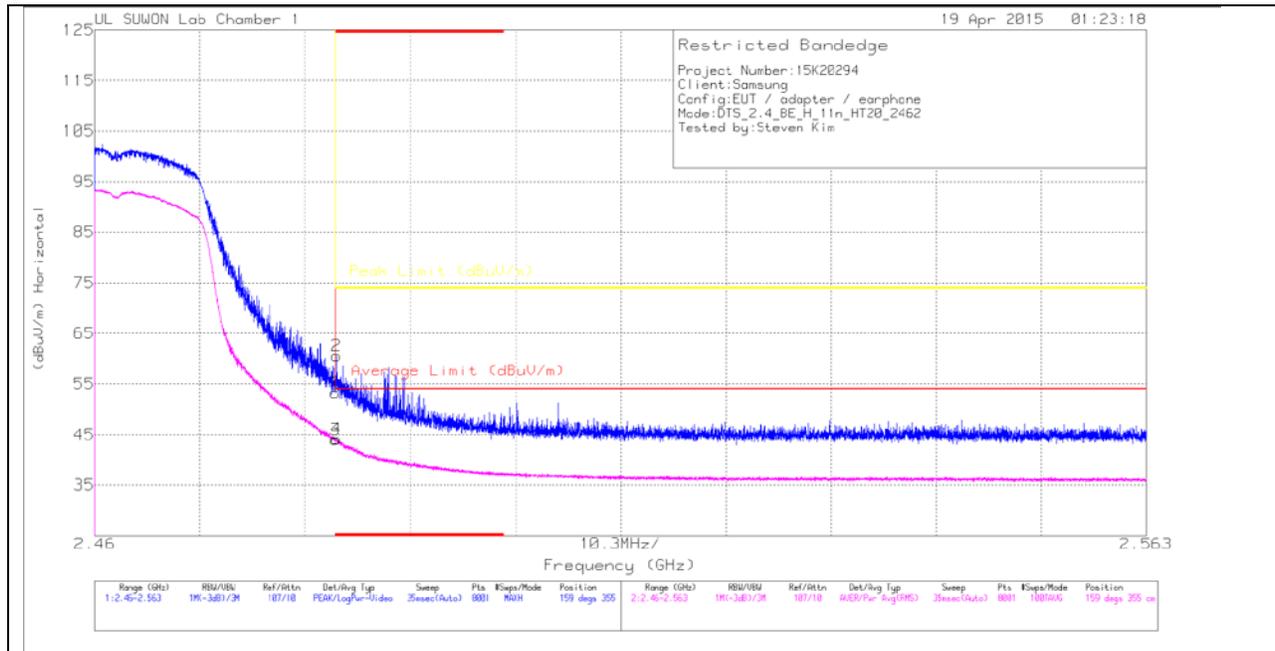
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

## AUTHORIZED BANDEDGE (HIGH CHANNEL)

### HORIZONTAL PEAK AND AVERAGE PLOT



### HORIZONTAL DATA

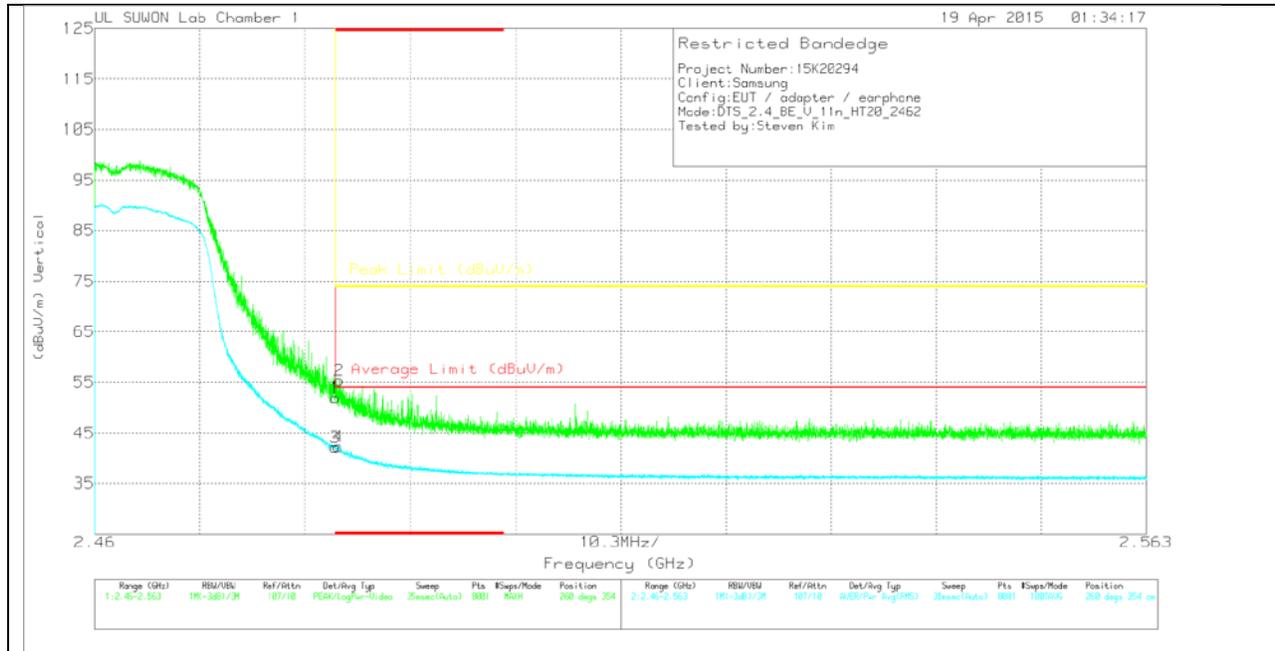
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3115D Factor	Path_2_10dB	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	47.97	PK	27.9	-22.6	0	53.27	-	-	74	-20.73	159	355	H
2	* 2.484	55.3	PK	27.9	-22.6	0	60.6	-	-	74	-13.4	159	355	H
3	* 2.484	38.4	RMS	27.9	-22.6	.28	43.98	54	-10.02	-	-	159	355	H
4	* 2.484	38.59	RMS	27.9	-22.6	.28	44.17	54	-9.83	-	-	159	355	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

**VERTICAL PEAK AND AVERAGE PLOT**



**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3115D Factor	Path_2_10dB	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	46.66	Pk	27.9	-22.6	0	51.96	-	-	74	-22.04	260	354	V
2	* 2.484	50.11	PK	27.9	-22.6	0	55.41	-	-	74	-18.59	260	354	V
3	* 2.484	36.59	RMS	27.9	-22.6	.28	42.17	54	-11.83	-	-	260	354	V
4	* 2.484	36.69	RMS	27.9	-22.6	.28	42.27	54	-11.73	-	-	260	354	V

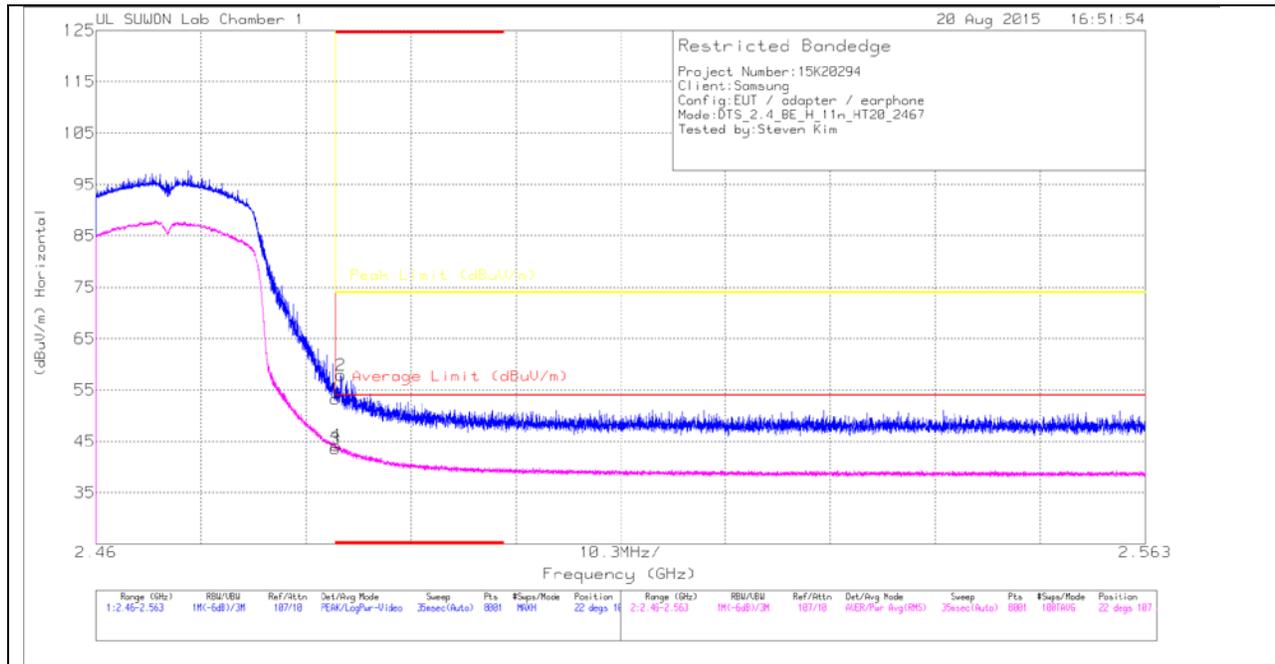
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

**AUTHORIZED BANDEDGE (12 CHANNEL)**

**HORIZONTAL PEAK AND AVERAGE PLOT**



**HORIZONTAL DATA**

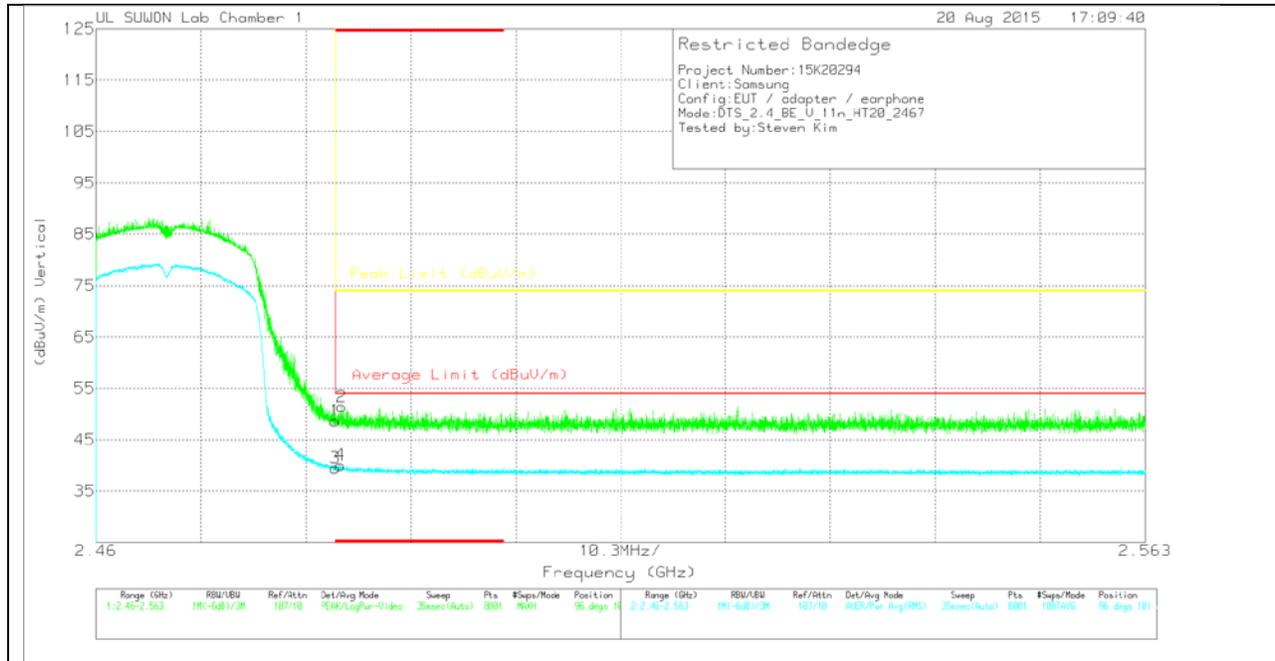
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_2_10dB	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	43.89	Pk	32	-22.6	0	53.29	-	-	74	-20.71	22	107	H
2	* 2.484	48.47	Pk	32	-22.6	0	57.87	-	-	74	-16.13	22	107	H
3	* 2.484	33.84	RMS	32	-22.6	.28	43.52	54	-10.48	-	-	22	107	H
4	* 2.484	34.54	RMS	32	-22.6	.28	44.22	54	-9.78	-	-	22	107	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

**VERTICAL PEAK AND AVERAGE PLOT**



**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_2_10dB	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	39.32	Pk	32	-22.6	0	48.72	-	-	74	-25.28	96	101	V
2	* 2.484	42.06	Pk	32	-22.6	0	51.46	-	-	74	-22.54	96	101	V
3	* 2.484	29.82	RMS	32	-22.6	.28	39.5	54	-14.5	-	-	96	101	V
4	* 2.484	30.38	RMS	32	-22.6	.28	40.06	54	-13.94	-	-	96	101	V

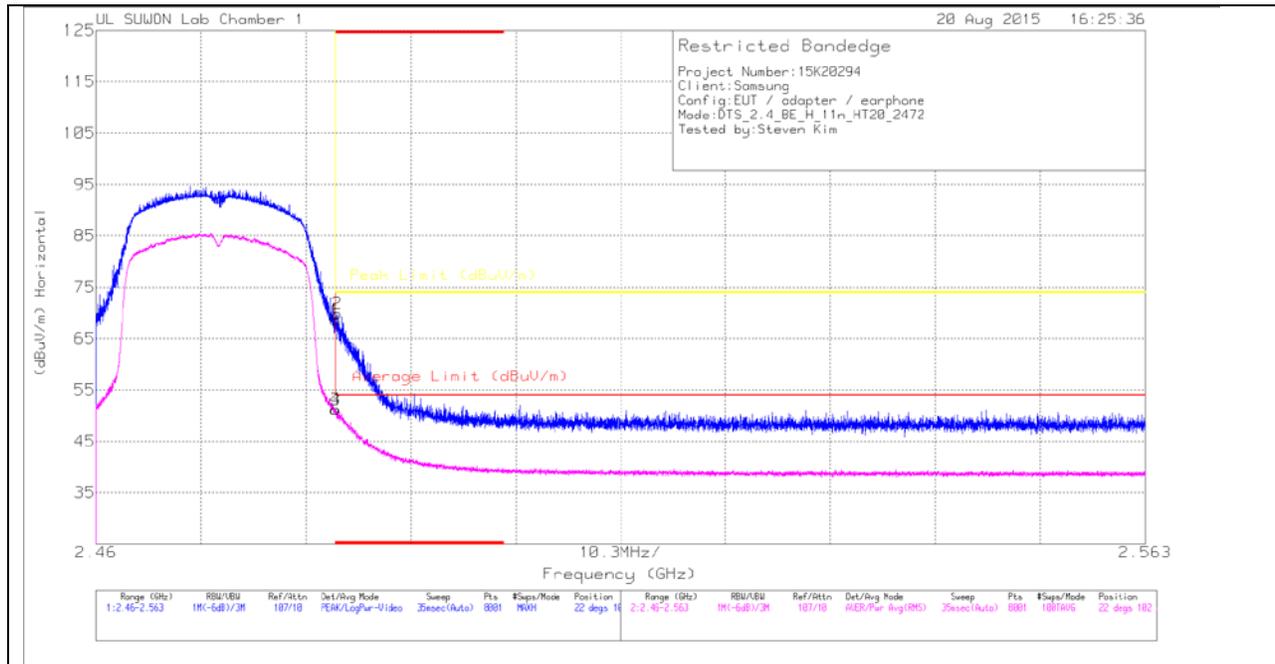
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

**AUTHORIZED BANDEDGE (13 CHANNEL)**

**HORIZONTAL PEAK AND AVERAGE PLOT**



**HORIZONTAL DATA**

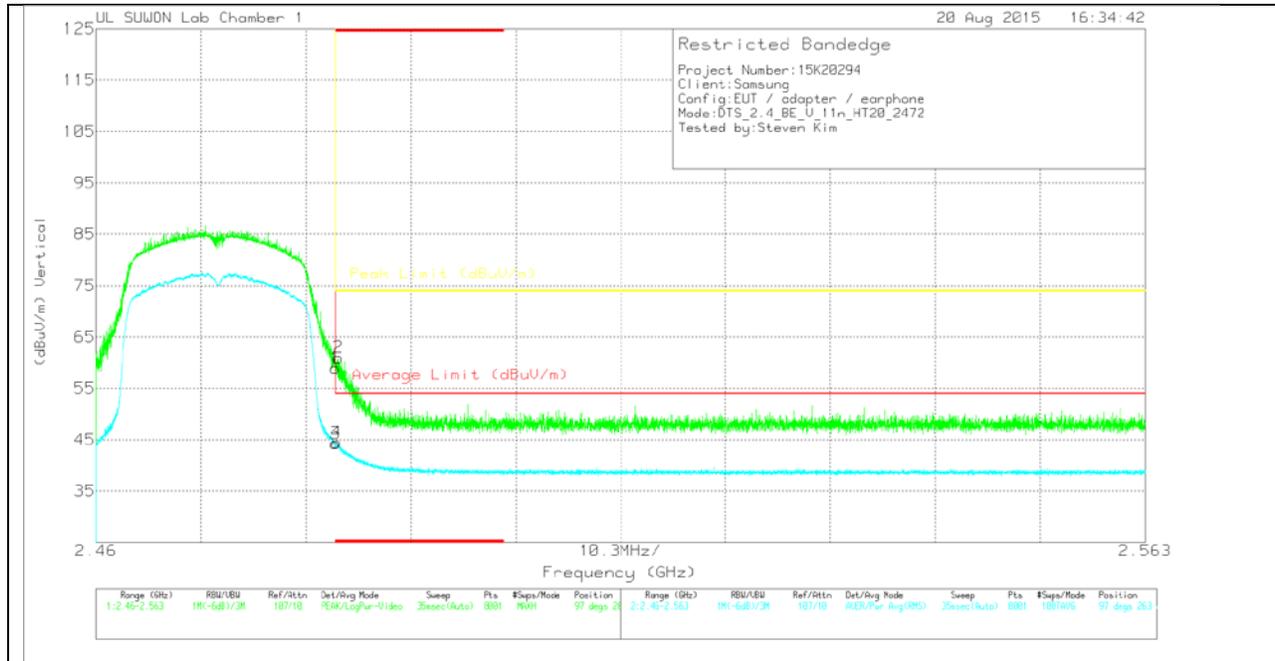
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 17)_150619	Path_2_10d B	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	59.33	Pk	32	-22.6	0	68.73	-	-	74	-5.27	22	102	H
2	* 2.484	60.46	Pk	32	-22.6	0	69.86	-	-	74	-4.14	22	102	H
3	* 2.484	41.51	RMS	32	-22.6	.28	51.19	54	-2.81	-	-	22	102	H
4	* 2.484	41.57	RMS	32	-22.6	.28	51.25	54	-2.75	-	-	22	102	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

**VERTICAL PEAK AND AVERAGE PLOT**



**VERTICAL DATA**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 17)_150619	Path_2_10d B	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	49.55	Pk	32	-22.6	0	58.95	-	-	74	-15.05	97	263	V
2	* 2.484	51.61	Pk	32	-22.6	0	61.01	-	-	74	-12.99	97	263	V
3	* 2.484	34.63	RMS	32	-22.6	.28	44.31	54	-9.69	-	-	97	263	V
4	* 2.484	34.79	RMS	32	-22.6	.28	44.47	54	-9.53	-	-	97	263	V

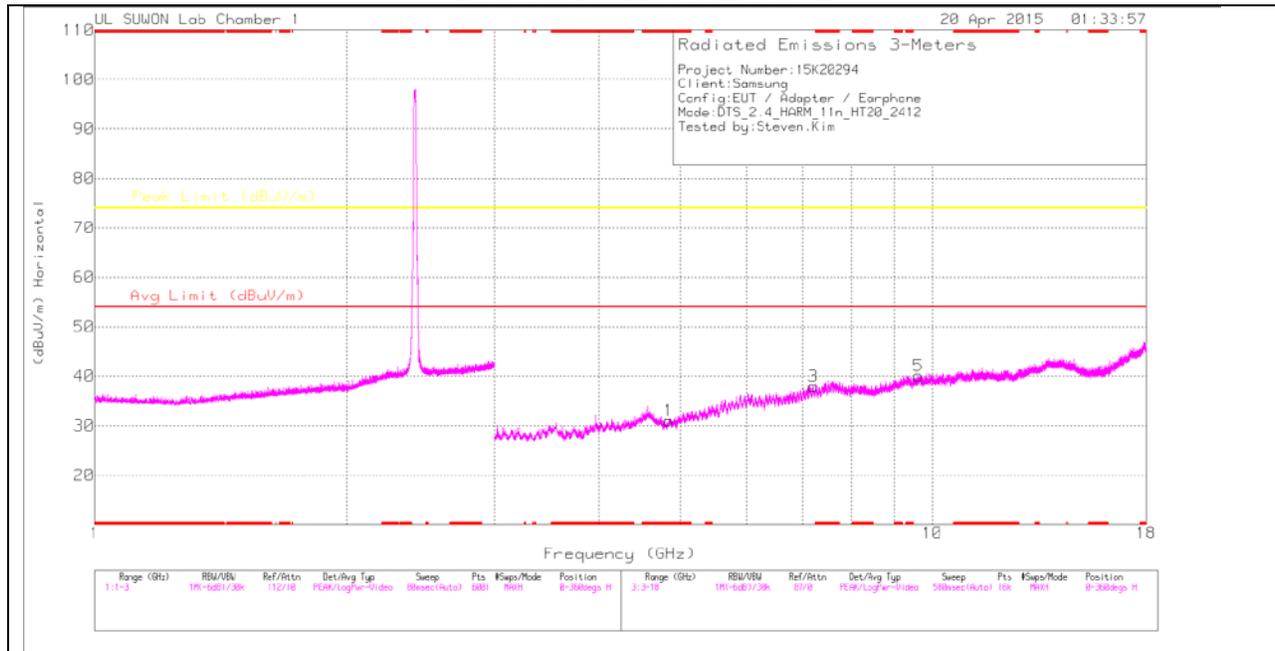
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

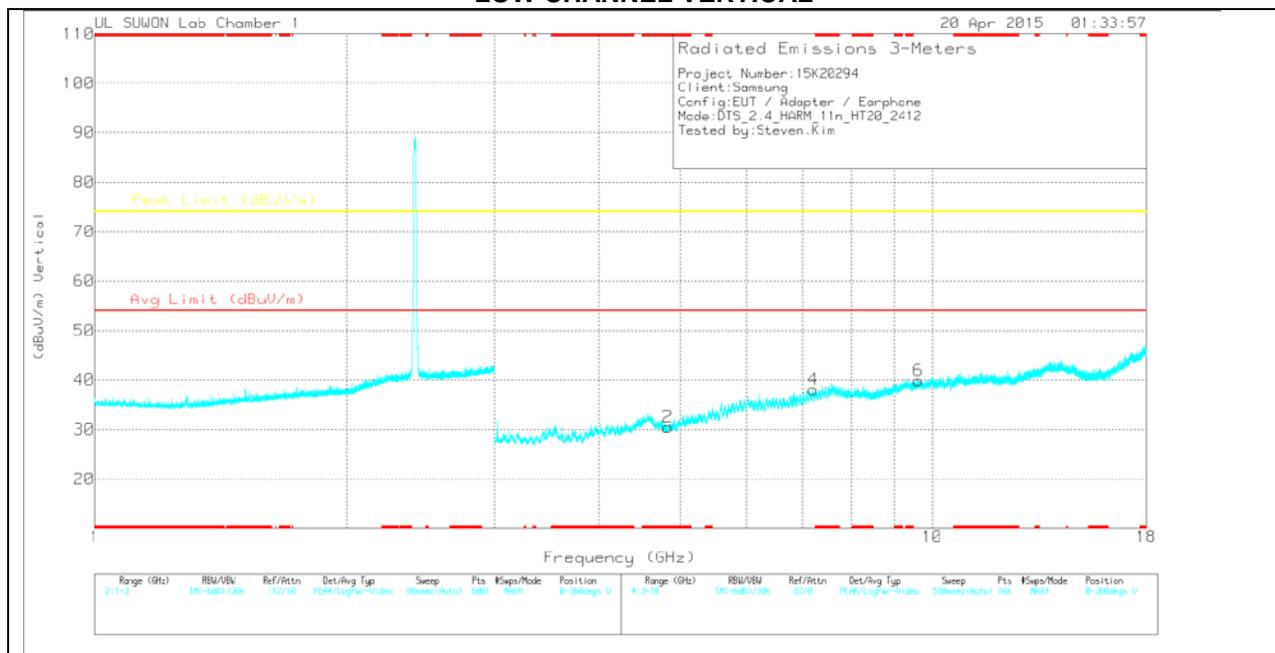
RMS - RMS detection

## 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

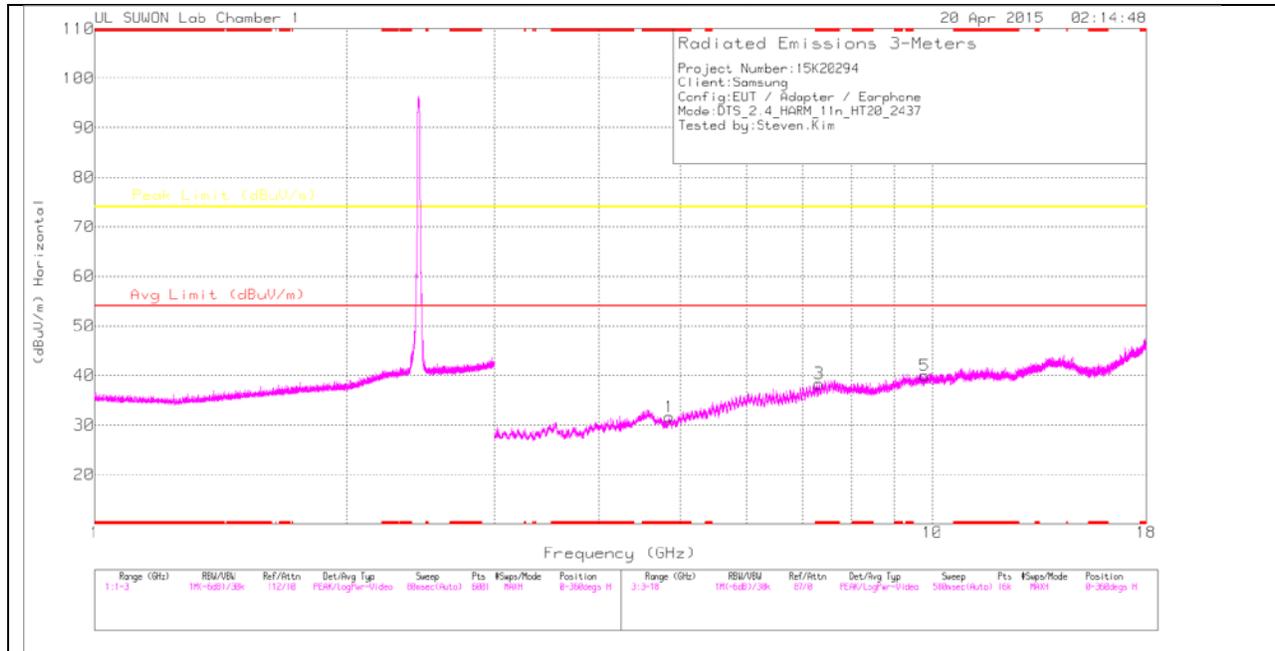
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3115D Factor	Path_3_3GHP	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.847	28.34	PK	32	-29.3	0	31.04	-	-	74	-42.96	0-360	200	H
3	7.208	26.33	PK	37	-25.4	0	37.93	-	-	-	-	0-360	100	H
5	9.631	23.35	PK	37.6	-20.9	0	40.05	-	-	-	-	0-360	200	H
2	* 4.834	28.03	PK	31.9	-29.4	0	30.53	-	-	74	-43.47	0-360	100	V
4	7.206	26.43	PK	37	-25.4	0	38.03	-	-	-	-	0-360	200	V
6	9.631	23.22	PK	37.6	-20.9	0	39.92	-	-	-	-	0-360	100	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

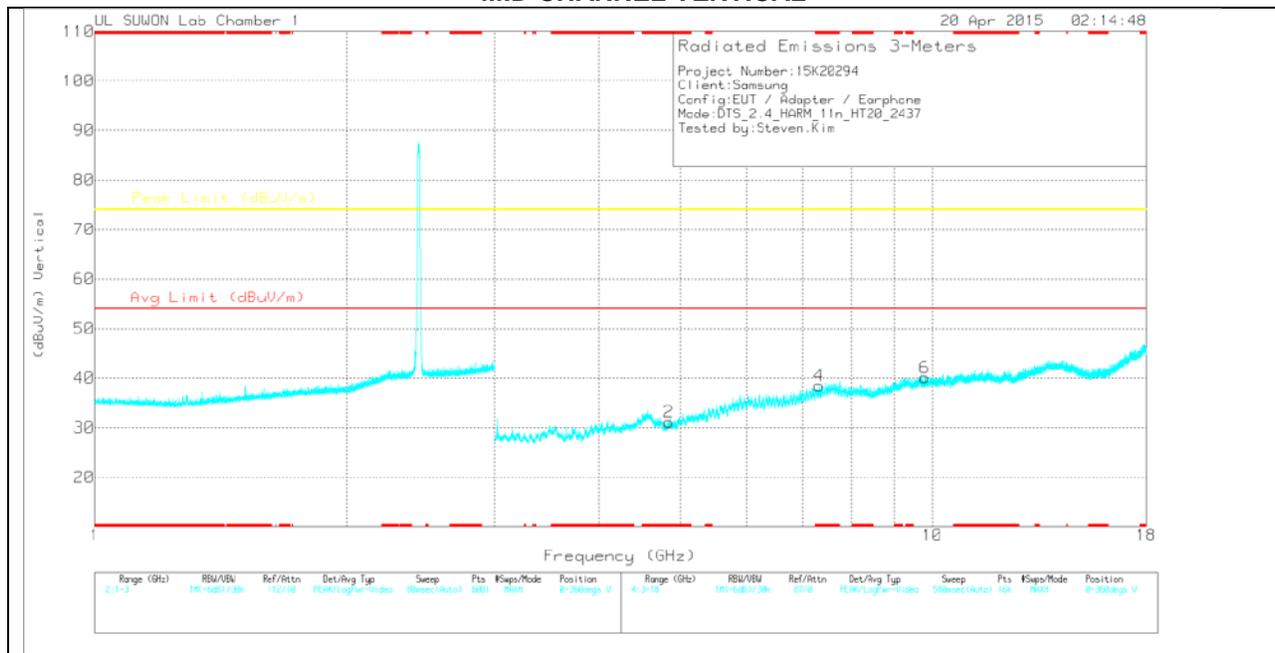
PK – Peak Detector

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*

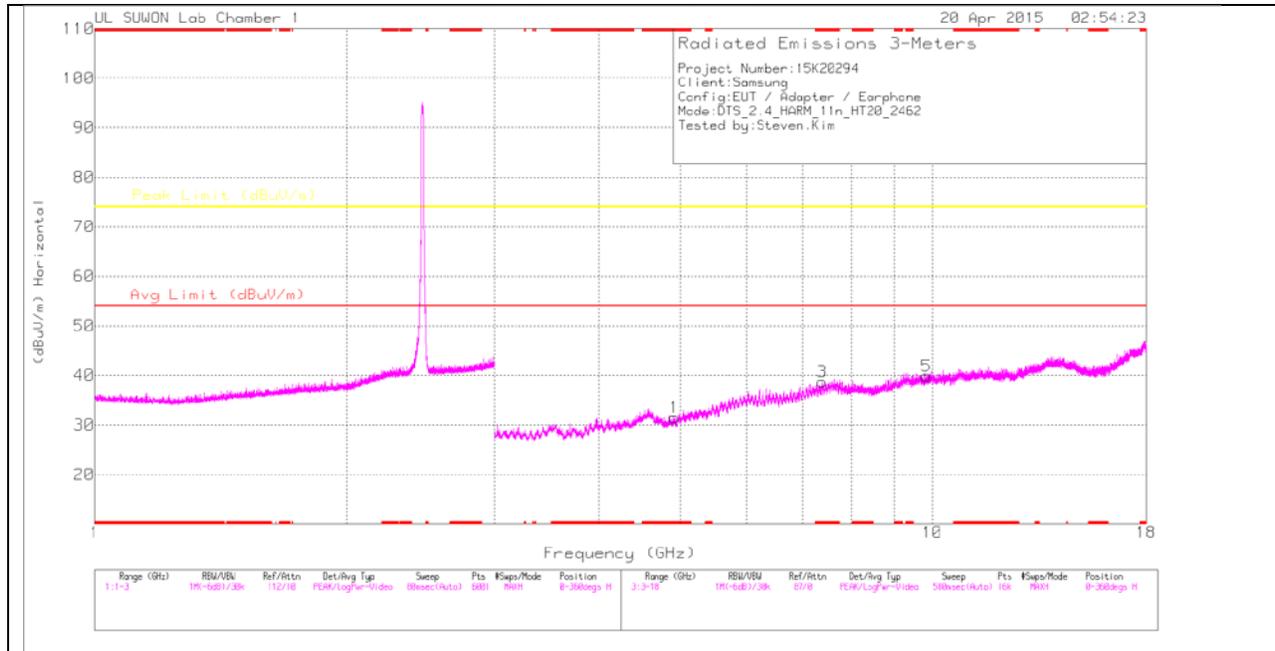
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3115D Factor	Path_3_3GHP	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.854	28.89	PK	32	-29.2	0	31.69	-	-	74	-42.31	0-360	100	H
3	* 7.327	26.76	PK	37.2	-25.6	0	38.36	-	-	74	-35.64	0-360	200	H
5	9.79	24.44	PK	37.7	-22.2	0	39.94	-	-	-	-	0-360	100	H
2	* 4.85	28.35	PK	32	-29.2	0	31.15	-	-	74	-42.85	0-360	200	V
4	* 7.325	26.89	PK	37.2	-25.6	0	38.49	-	-	74	-35.51	0-360	100	V
6	9.783	24.63	PK	37.7	-22.2	0	40.13	-	-	-	-	0-360	100	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

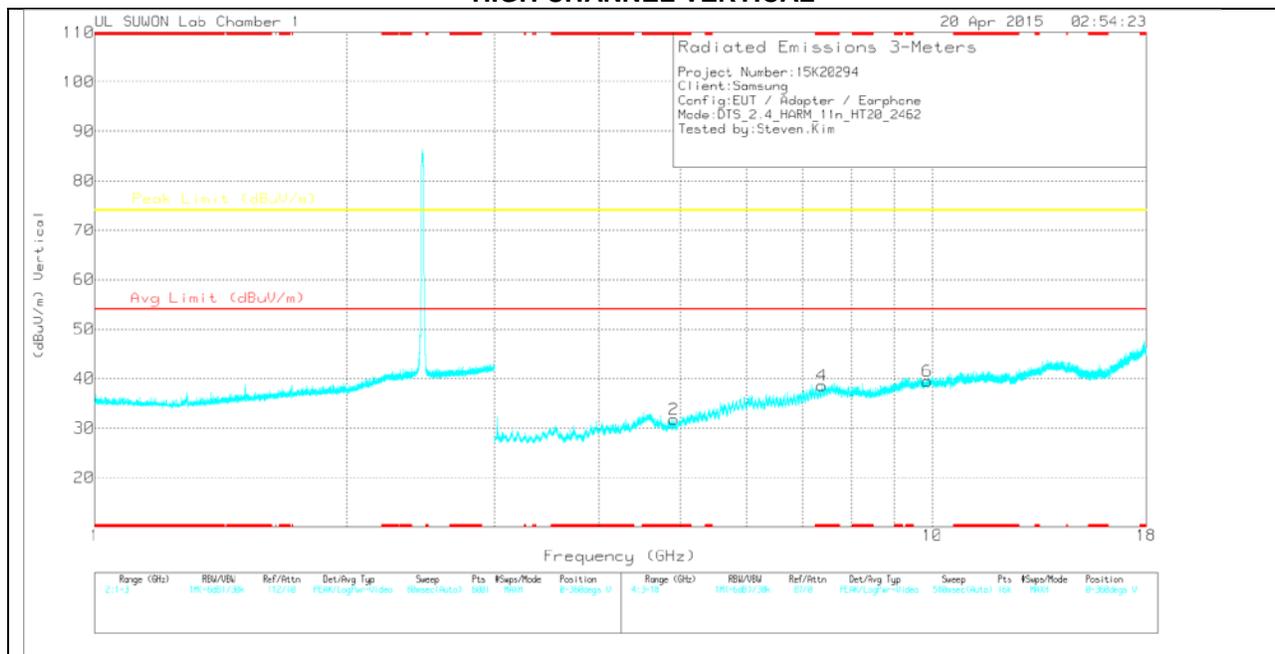
PK – Peak Detector

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*

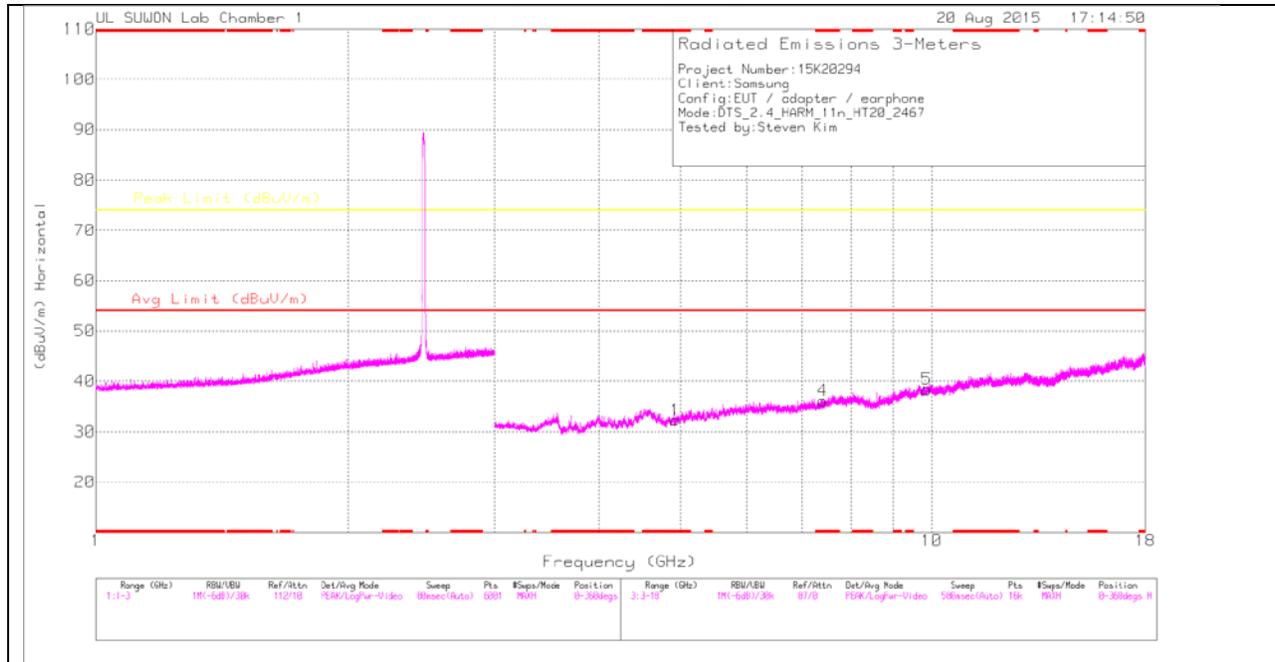
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3115D Factor	Path_3_3GHP	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.919	28.49	PK	32.1	-29.1	0	31.49	-	-	74	-42.51	0-360	200	H
3	* 7.387	26.63	PK	37.2	-25.1	0	38.73	-	-	74	-35.27	0-360	100	H
5	9.848	23.68	PK	37.8	-21.6	0	39.88	-	-	-	-	0-360	200	H
2	* 4.916	28.73	PK	32.1	-29.1	0	31.73	-	-	74	-42.27	0-360	200	V
4	* 7.379	26.58	PK	37.2	-25.2	0	38.58	-	-	74	-35.42	0-360	100	V
6	9.852	23.31	PK	37.8	-21.6	0	39.51	-	-	-	-	0-360	200	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

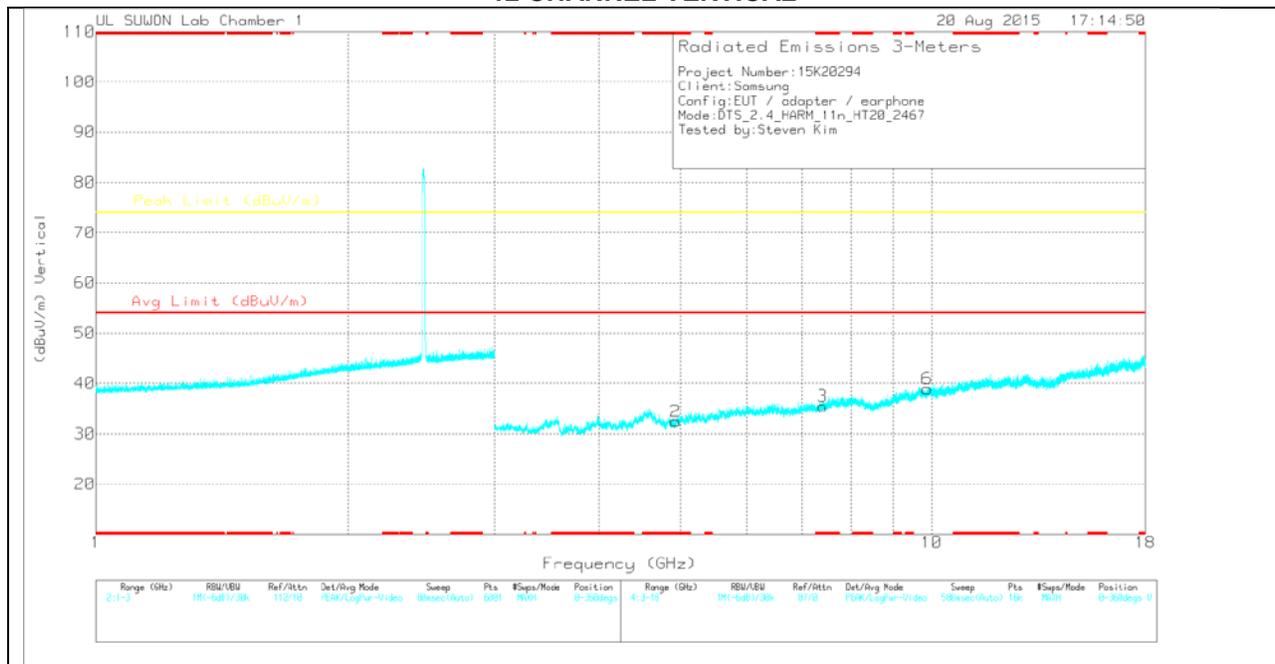
PK – Peak Detector

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

**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*

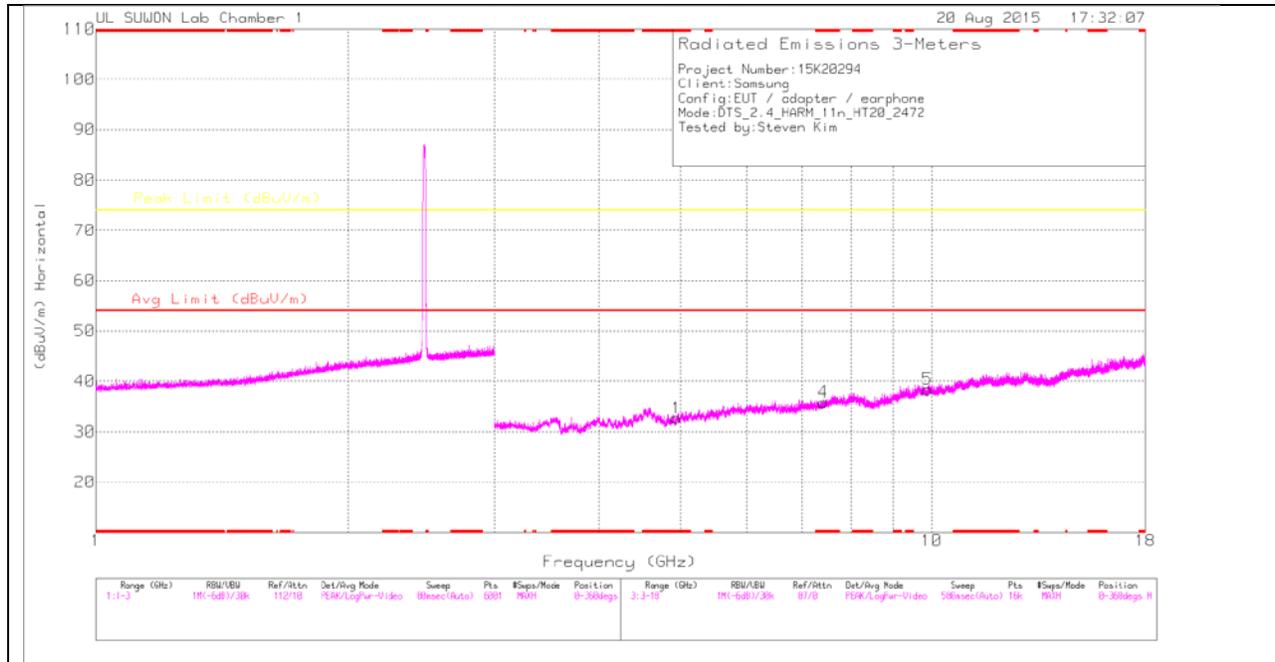
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 17_150619)	Path_3_3GHP	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.934	27.31	PK	34	-29	0	32.31	-	-	74	-41.69	0-360	100	H
4	* 7.403	25.37	PK	35.8	-25	0	36.17	-	-	74	-37.83	0-360	200	H
5	9.867	22.37	PK	37.3	-21.3	0	38.37	-	-	74	-35.63	0-360	100	H
2	* 4.936	27.43	PK	34	-29	0	32.43	-	-	74	-41.57	0-360	100	V
3	* 7.403	24.67	PK	35.8	-25	0	35.47	-	-	74	-38.53	0-360	200	V
6	9.88	22.65	PK	37.3	-21	0	38.95	-	-	74	-35.05	0-360	200	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

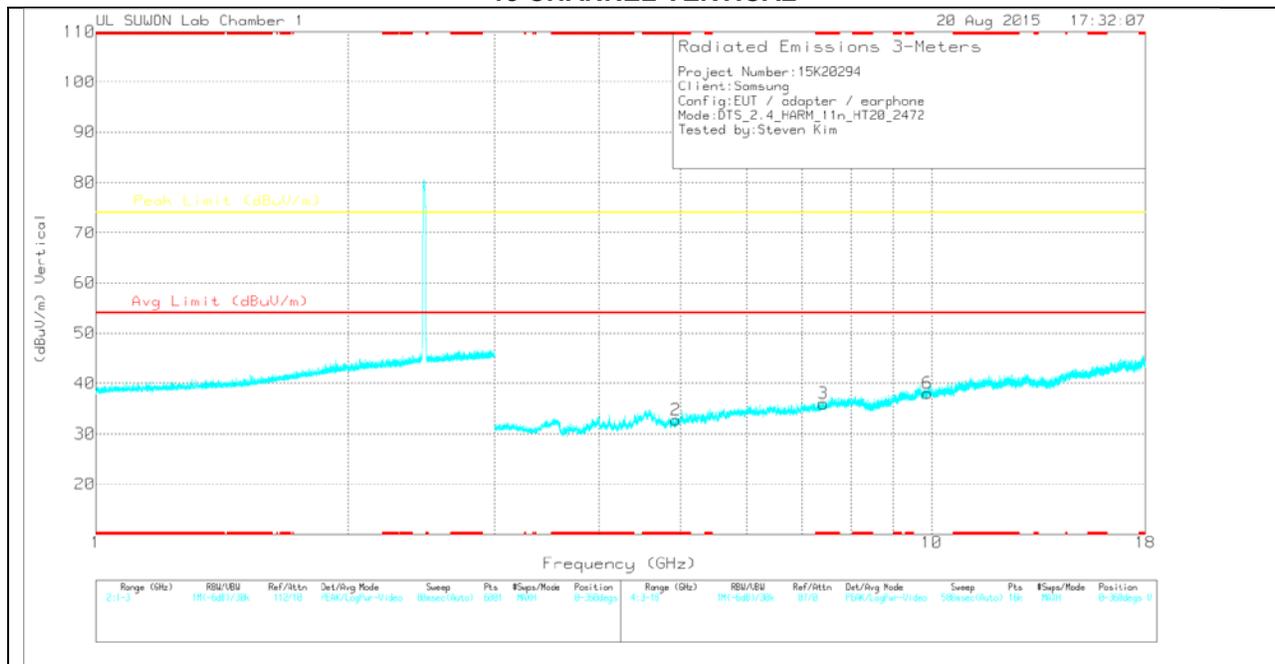
PK – Peak Detector

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

### 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	3117(001687 17_150619)	Path_3_3GHP	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	* 4.946	27.71	PK	34	-29	0	32.71	-	-	74	-41.29	0-360	100	H
4	* 7.417	24.94	PK	35.8	-24.9	0	35.84	-	-	74	-38.16	0-360	200	H
5	9.888	21.88	PK	37.3	-20.8	0	38.38	-	-	74	-35.62	0-360	100	H
2	* 4.943	27.75	PK	34	-29	0	32.75	-	-	74	-41.25	0-360	200	V
3	* 7.417	25.12	PK	35.8	-24.9	0	36.02	-	-	74	-37.98	0-360	100	V
6	9.889	21.55	PK	37.3	-20.8	0	38.05	-	-	74	-35.95	0-360	200	V

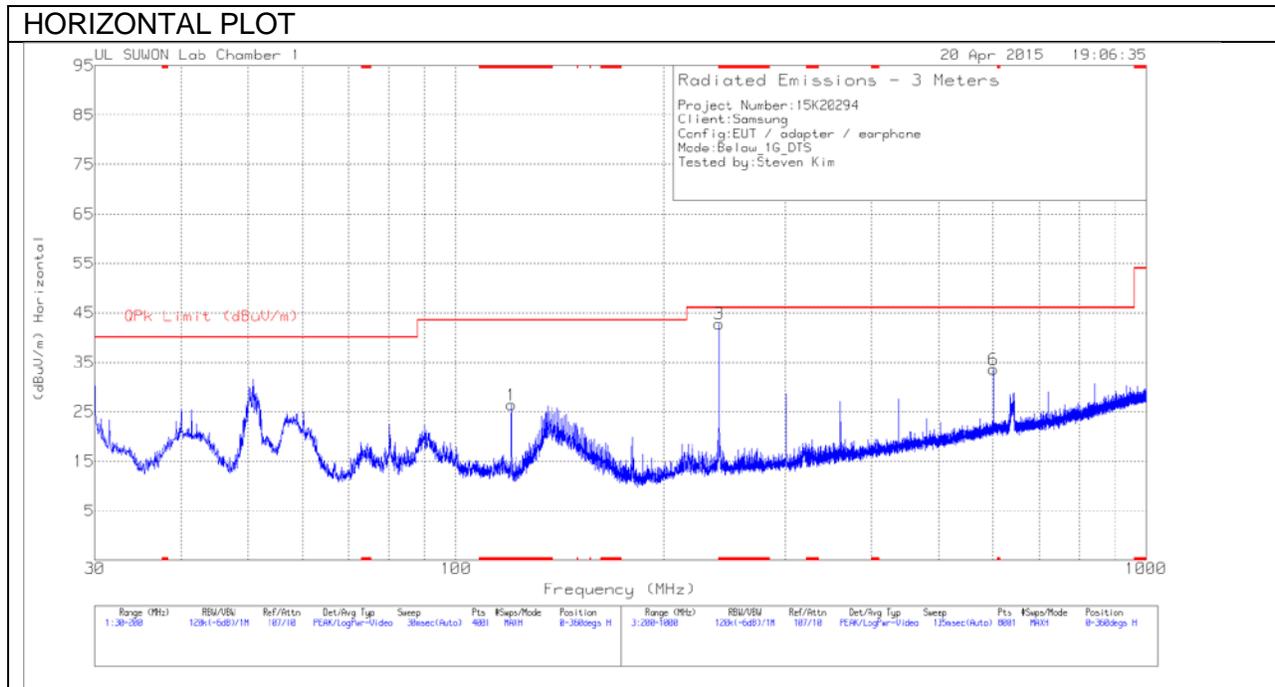
\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK – Peak Detector

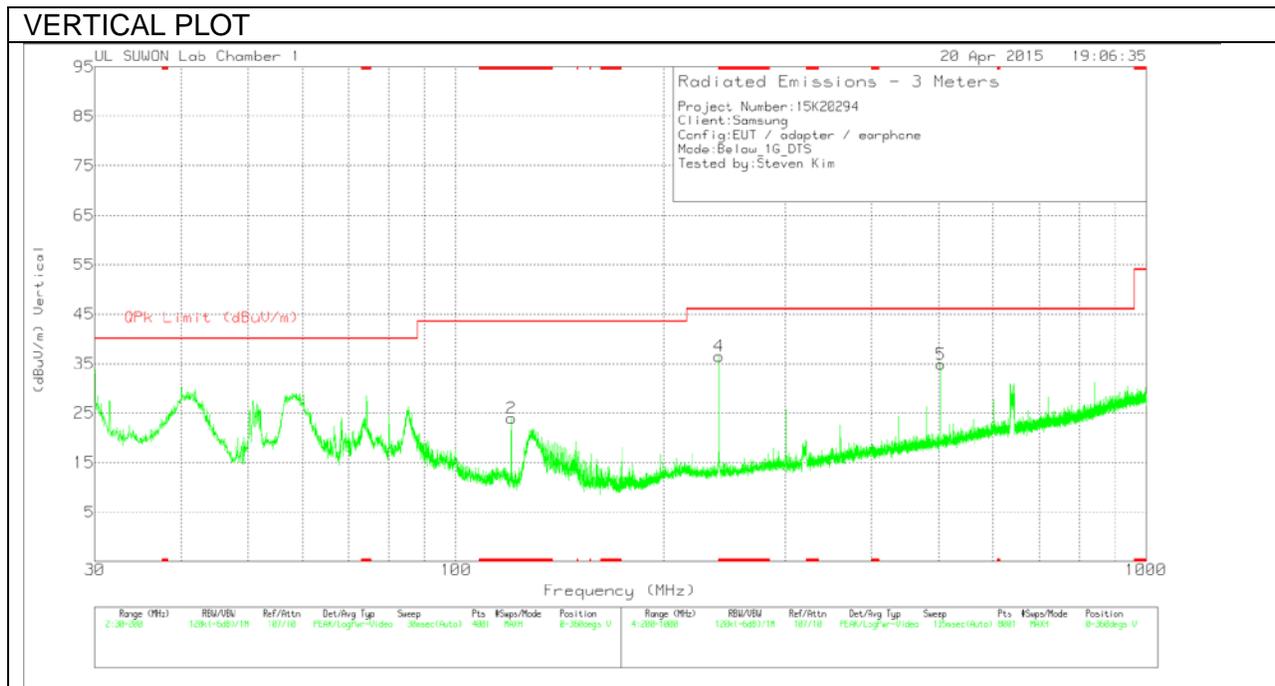
Note : Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

### 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**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163-750	Bi-Log	DC Corr (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 120.27	45.37	Pk	10	-29	0	26.37	43.52	-17.15	0-360	300	H
2	* 120.27	43.03	Pk	10	-29	0	24.03	43.52	-19.49	0-360	100	V
3	* 240.5	58.54	Pk	12.1	-27.8	0	42.84	46.02	-3.18	0-360	100	H
6	601.3	40.22	Pk	19.1	-25.7	0	33.62	46.02	-12.4	0-360	300	H
4	* 240.5	52.23	Pk	12.1	-27.8	0	36.53	46.02	-9.49	0-360	200	V
5	504	44	Pk	17.1	-26.2	0	34.9	46.02	-11.12	0-360	100	V

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

**Radiated Emissions**

Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163-750	Bi-Log	DC Corr (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 240.5008	58.1	Qp	12.1	-27.8	0	42.4	46.02	-3.62	202	105	H

\* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Qp - Quasi-Peak detector

## 12. AC POWER LINE CONDUCTED EMISSIONS

### LIMITS

FCC §15.207 (a)

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 C63.4 2009.

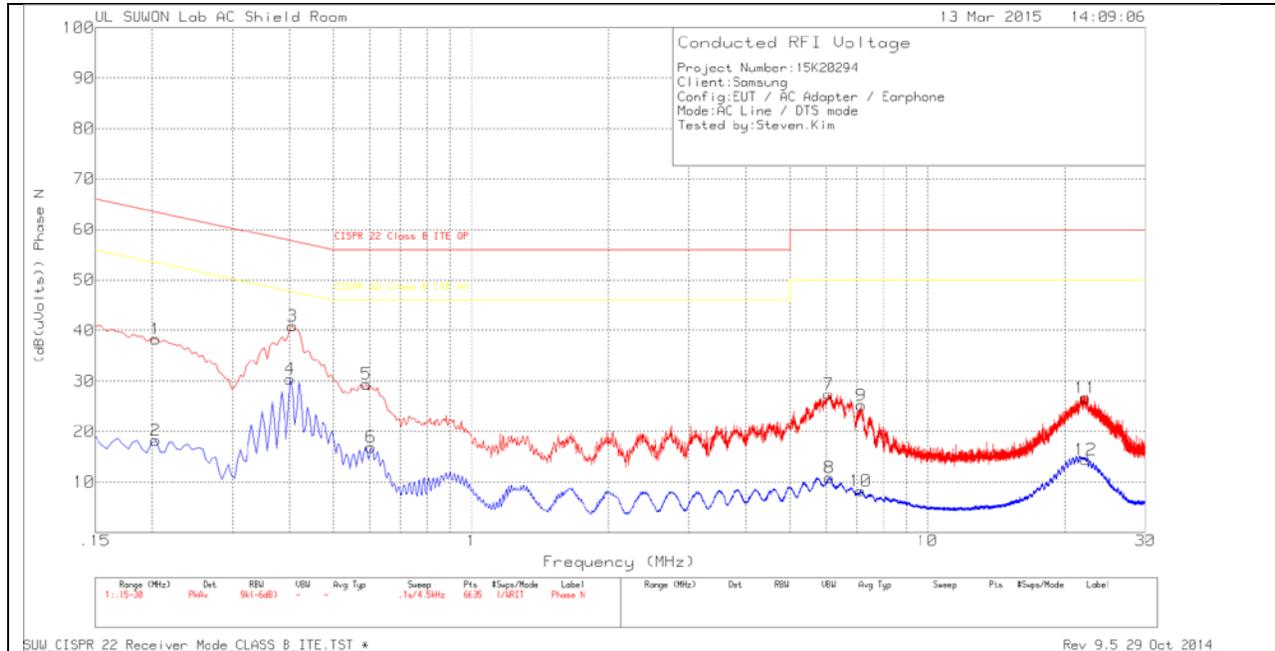
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

**RESULTS**

**6 WORST EMISSIONS**

**LINE 1 PLOT**



**LINE 1 RESULTS**

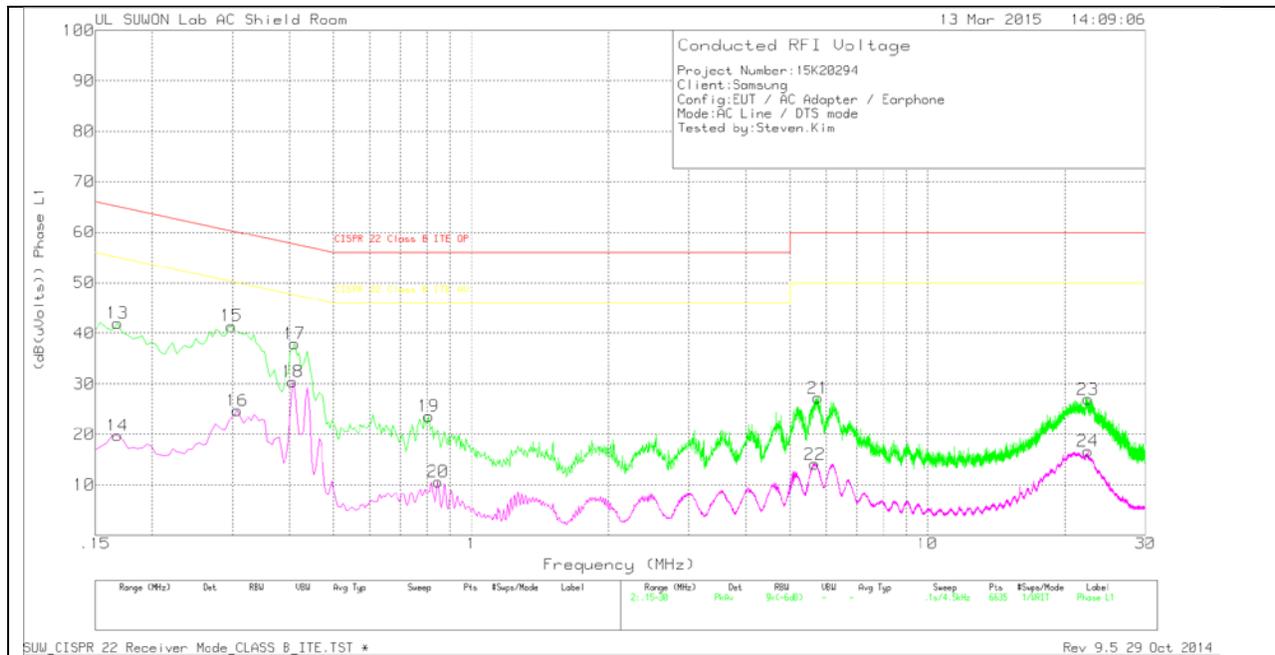
Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101837_N	CE Shield Room	Corrected Reading (dBuV)	CISPR 22 Class B ITE QP	Margin (dB)	CISPR 22 Class B ITE AV	Margin (dB)
1	.204	28.37	Pk	9.9	0	38.27	63.45	-25.18	-	-
2	.204	8.36	Av	9.9	0	18.26	-	-	53.45	-35.19
3	.4065	30.86	Pk	10	0	40.86	57.72	-16.86	-	-
4	.402	20.37	Av	10	0	30.37	-	-	47.81	-17.44
5	.591	19.26	Pk	10.1	0	29.36	56	-26.64	-	-
6	.6045	6.83	Av	10.1	0	16.93	-	-	46	-29.07
7	6.0765	17.63	Pk	9.7	.1	27.43	60	-32.57	-	-
8	6.0945	1.06	Av	9.7	.1	10.86	-	-	50	-39.14
9	7.17	15.42	Pk	9.7	.1	25.22	60	-34.78	-	-
10	7.1475	-1.52	Av	9.7	.1	8.28	-	-	50	-41.72
11	22.227	16.7	Pk	9.8	.2	26.7	60	-33.3	-	-
12	22.227	4.45	Av	9.8	.2	14.45	-	-	50	-35.55

Pk - Peak detector

Av - Average detection

**LINE 2 PLOT**



**LINE 2 RESULTS**

Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101837_L 1	CE Shield Room	Corrected Reading (dBuV)	CISPR 22 Class B ITE QP	Margin (dB)	CISPR 22 Class B ITE AV	Margin (dB)
13	.168	32.19	Pk	9.8	0	41.99	65.06	-23.07	-	-
14	.168	9.91	Av	9.8	0	19.71	-	-	55.06	-35.35
15	.2985	31.77	Pk	9.7	0	41.47	60.28	-18.81	-	-
16	.3075	14.89	Av	9.8	0	24.69	-	-	50.04	-25.35
17	.411	28.1	Pk	9.9	0	38	57.63	-19.63	-	-
18	.4065	20.45	Av	9.9	0	30.35	-	-	47.72	-17.37
19	.807	13.89	Pk	9.7	0	23.59	56	-32.41	-	-
20	.8475	.98	Av	9.6	0	10.58	-	-	46	-35.42
21	5.7525	17.71	Pk	9.4	.1	27.21	60	-32.79	-	-
22	5.6715	4.6	Av	9.4	.1	14.1	-	-	50	-35.9
23	22.44975	17.34	Pk	9.4	.2	26.94	60	-33.06	-	-
24	22.452	7.08	Av	9.4	.2	16.68	-	-	50	-33.32

Pk - Peak detector

Av - Average detection