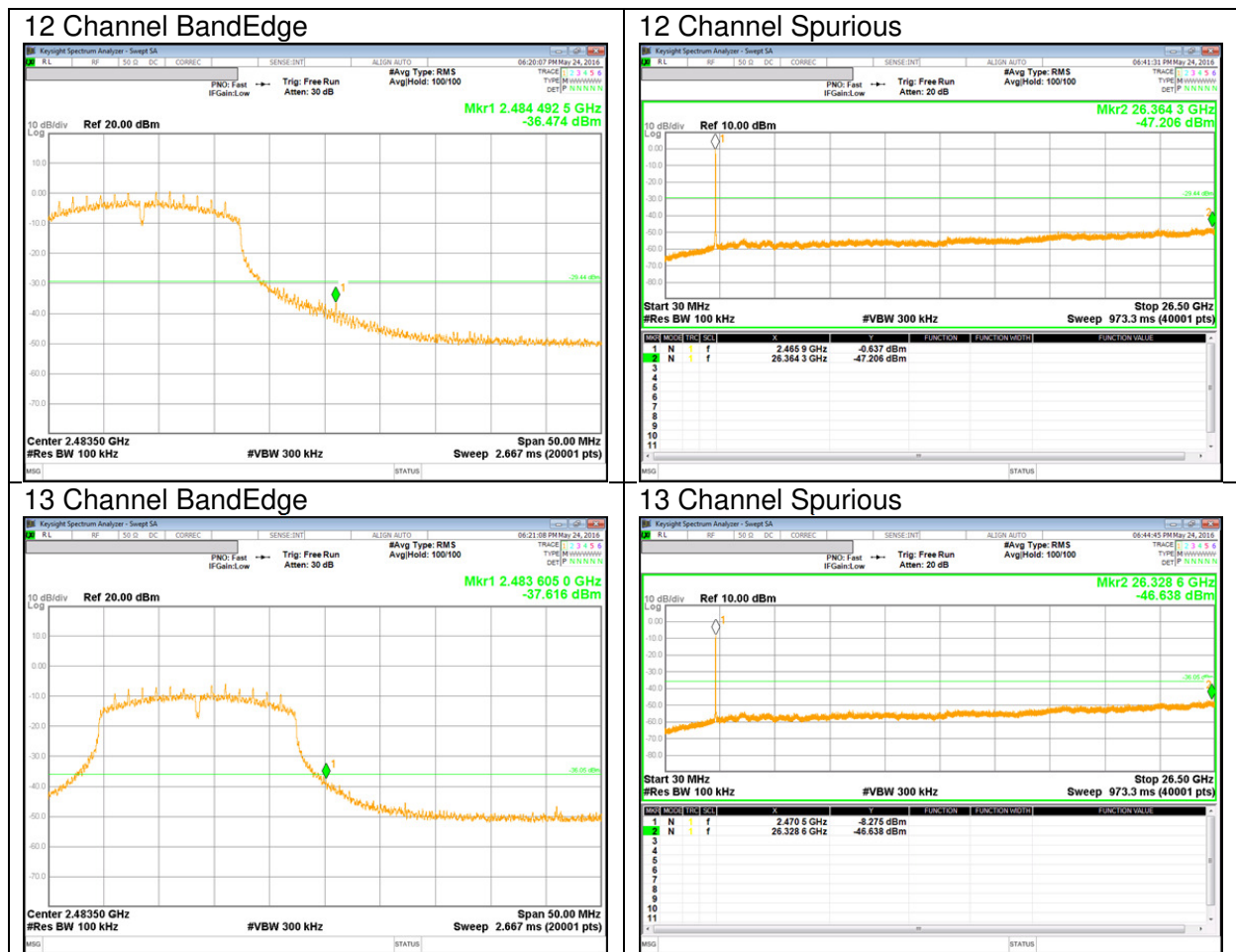




11. RADIATED TEST RESULTS

11.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209
IC RSS-GEN Clause 8.9 (Transmitter)
IC RSS-GEN Clause 7 (Receiver)

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 = 0.29dB; N mode = 0.32dB.

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.

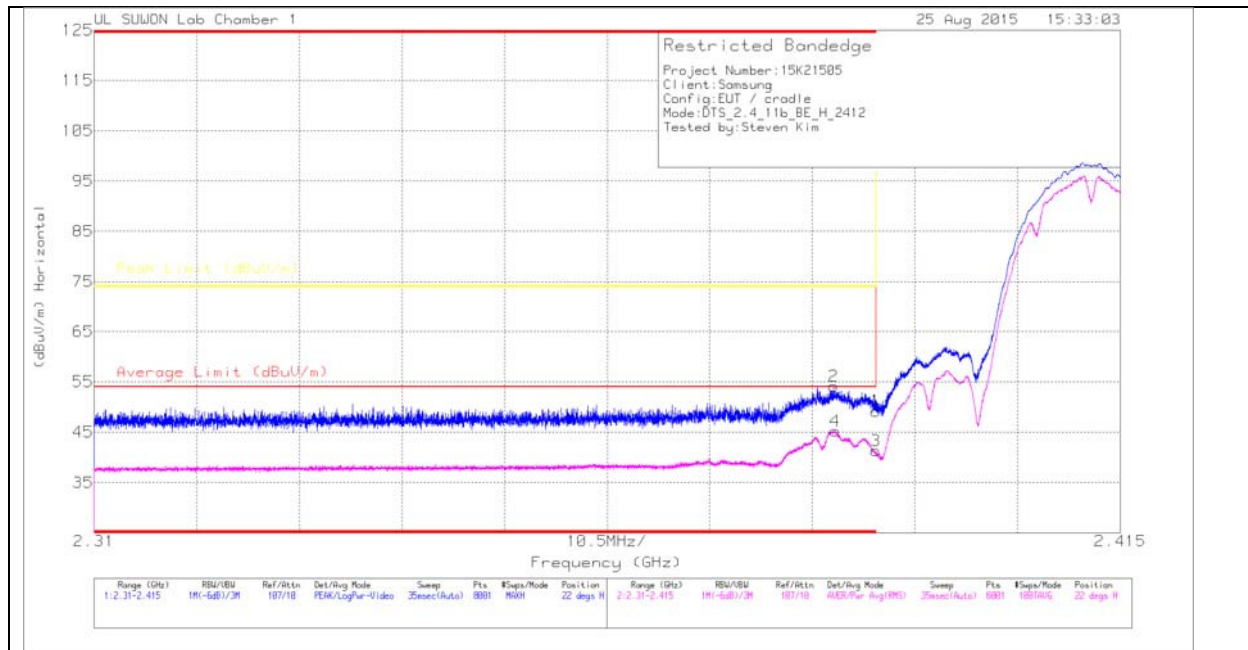
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

Trace Markers

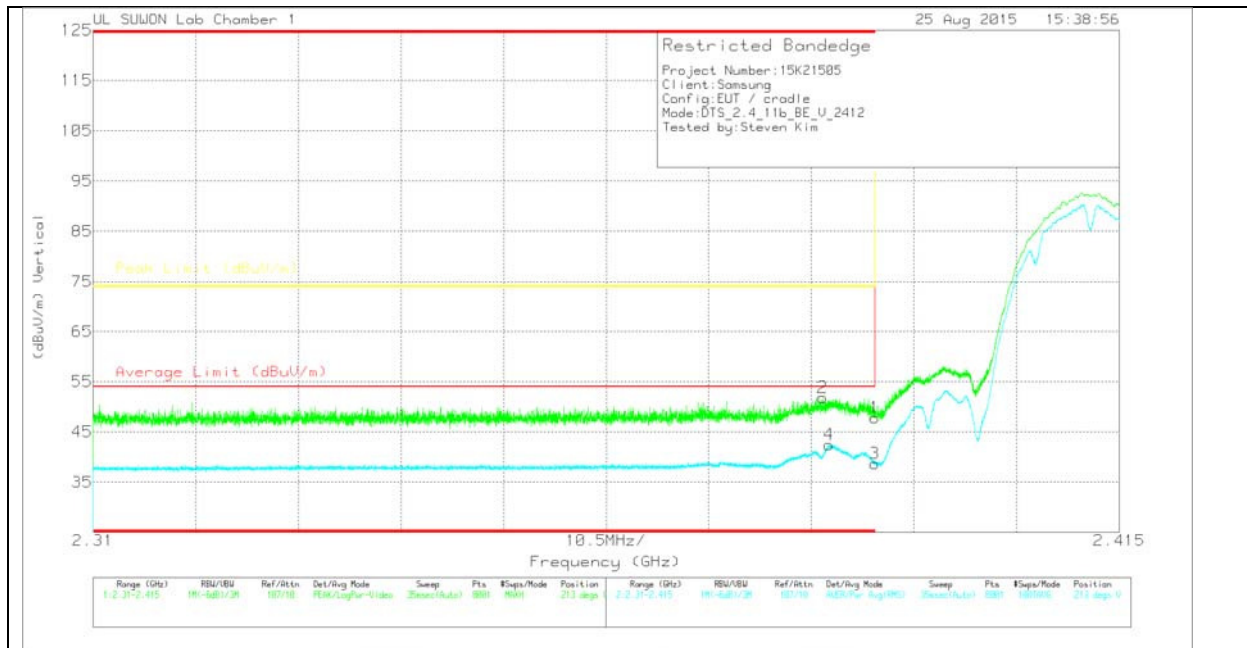
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 17)_150619	Path_2_10dB	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	40.18	Pk	31.8	-22.8	0	49.18	-	-	74	-24.82	22	351	H
2	* 2.386	45.09	Pk	31.8	-22.8	0	54.09	-	-	74	-19.91	22	351	H
3	* 2.39	32.32	RMS	31.8	-22.8	0	41.32	54	-12.68	-	-	22	351	H
4	* 2.386	36.23	RMS	31.8	-22.8	0	45.23	54	-8.77	-	-	22	351	H

* - indicates frequency in CFR15.205/IC7.2.2 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(001687 17)_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	* 2.39	38.85	Pk	31.8	-22.8	0	47.85	-	-	74	-26.15	213	141	V
2	* 2.385	42.85	Pk	31.8	-22.8	0	51.85	-	-	74	-22.15	213	141	V
3	* 2.39	29.73	RMS	31.8	-22.8	0	38.73	54	-15.27	-	-	213	141	V
4	* 2.385	33.5	RMS	31.8	-22.8	0	42.5	54	-11.5	-	-	213	141	V

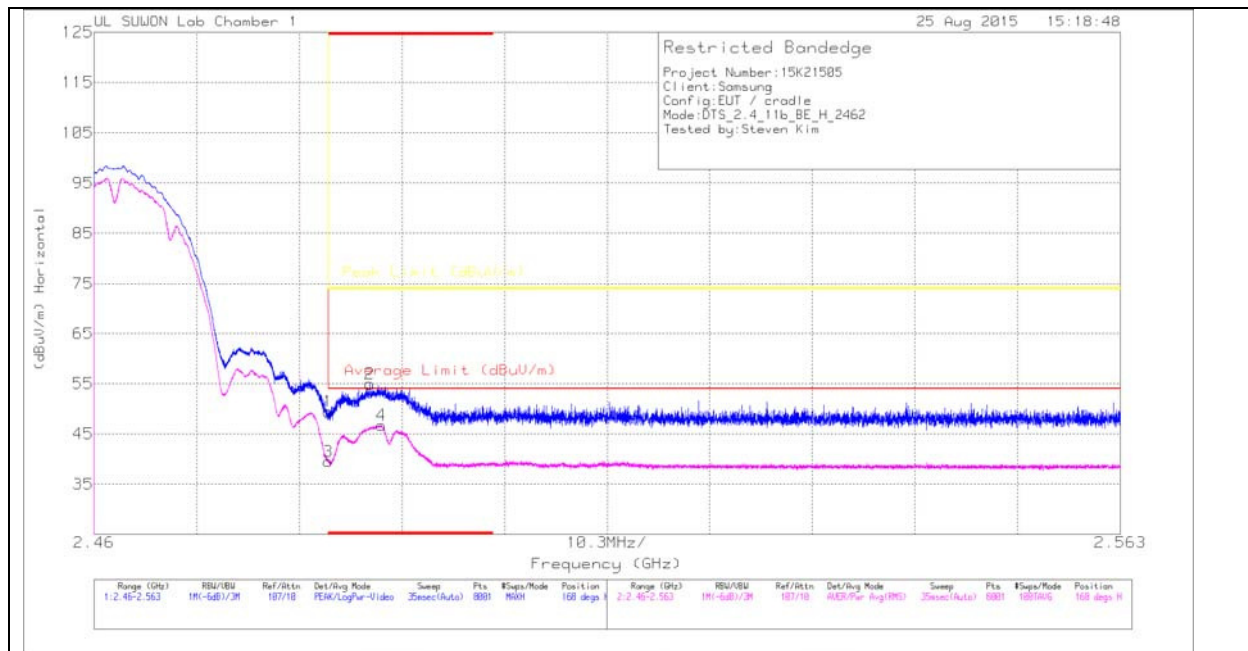
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

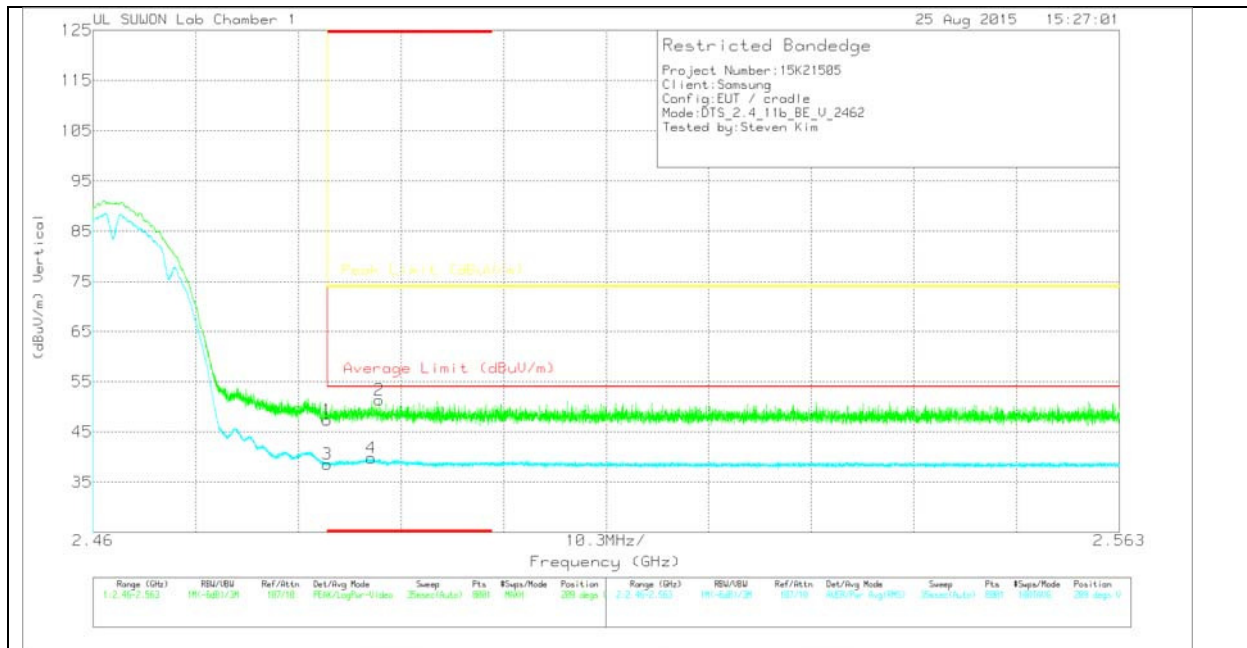
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	Path_2_10dB	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	40.06	Pk	32	-22.6	0	49.46	-	-	74	-24.54	168	101	H
2	* 2.488	45.54	Pk	32	-22.6	0	54.94	-	-	74	-19.06	168	101	H
3	* 2.484	30.11	RMS	32	-22.6	0	39.51	54	-14.49	-	-	168	101	H
4	* 2.489	37.34	RMS	32	-22.6	0	46.74	54	-7.26	-	-	168	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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_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	37.99	Pk	32	-22.6	0	47.39	-	-	74	-26.61	209	142	V
2	* 2.489	41.96	Pk	32	-22.6	0	51.36	-	-	74	-22.64	209	142	V
3	* 2.484	29.21	RMS	32	-22.6	0	38.61	54	-15.39	-	-	209	142	V
4	* 2.488	30.44	RMS	32	-22.6	0	39.84	54	-14.16	-	-	209	142	V

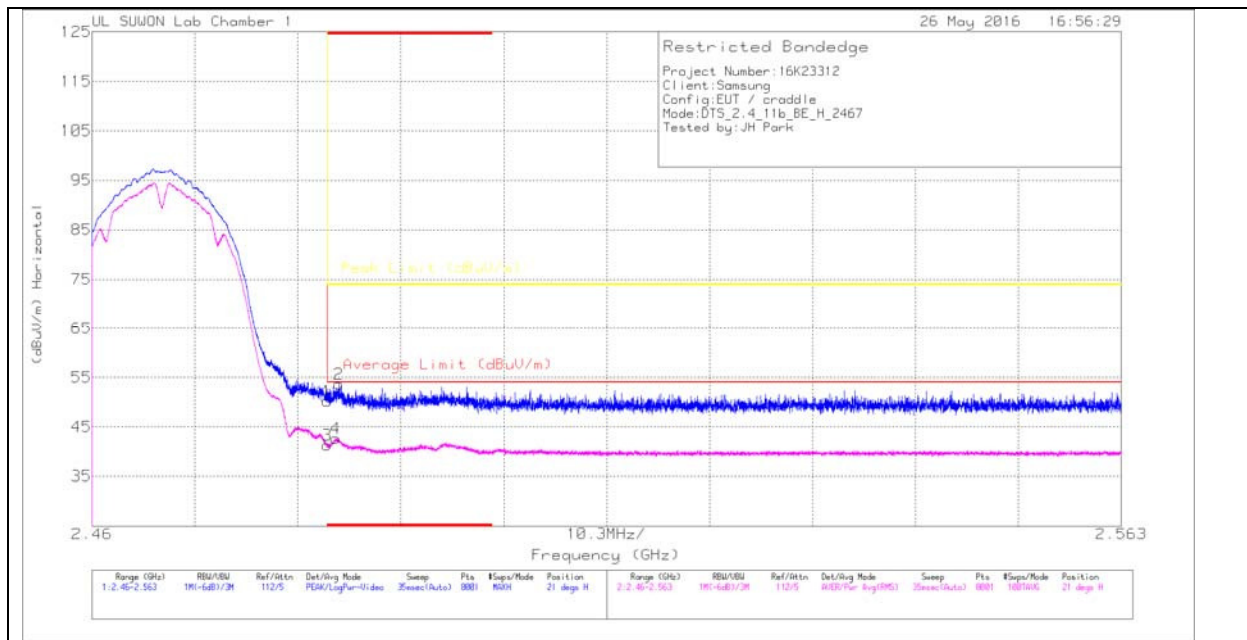
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (12 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

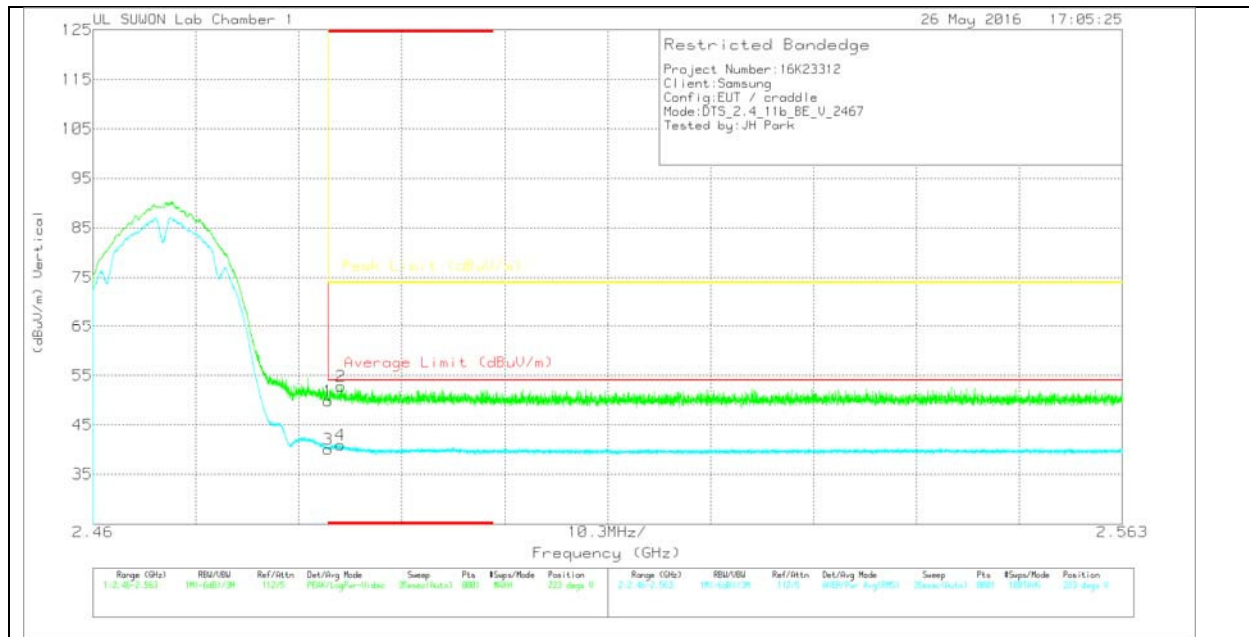
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 17)_150619	Path_2	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.484	46.47	Pk	32	-28.3	0	50.17	-	-	74	-23.83	21	100	H
2	* 2.485	49.91	Pk	32	-28.3	0	53.61	-	-	74	-20.39	21	100	H
3	* 2.484	37.58	RMS	32	-28.3	0	41.28	54	-12.72	-	-	21	100	H
4	* 2.484	38.94	RMS	32	-28.3	0	42.64	54	-11.36	-	-	21	100	H

* - indicates frequency in CFR15.205/IC7.2.2 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(001687 17)_150619	Path_2	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	46.09	Pk	32	-28.3	0	49.79	-	-	74	-24.21	223	102	V
2	* 2.485	49.05	Pk	32	-28.3	0	52.75	-	-	74	-21.25	223	102	V
3	* 2.484	36.34	RMS	32	-28.3	0	40.04	54	-13.96	-	-	223	102	V
4	* 2.485	37.25	RMS	32	-28.3	0	40.95	54	-13.05	-	-	223	102	V

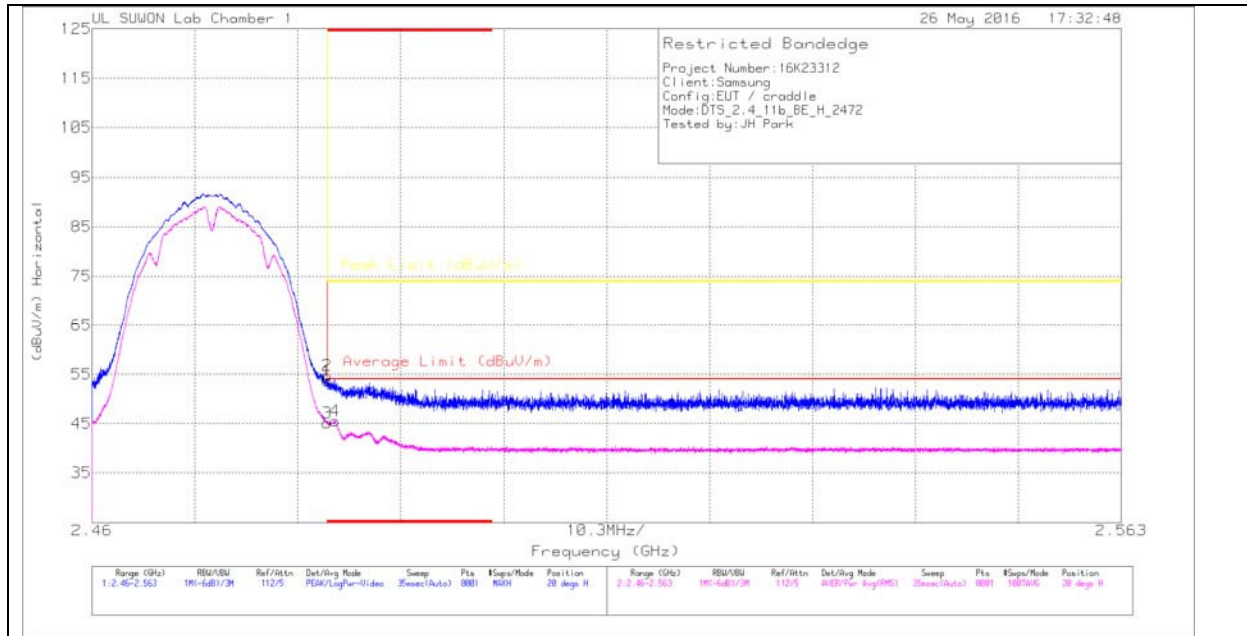
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (13 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

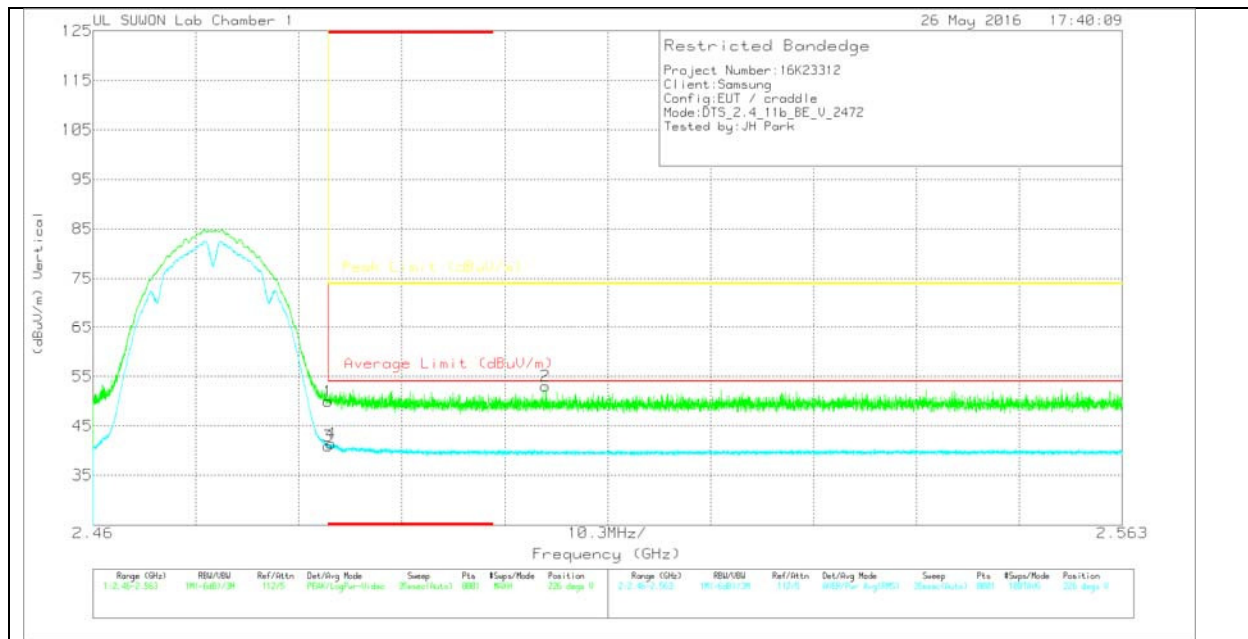
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 17)_150619	Path_2	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	49.93	Pk	32	-28.3	0	53.63	-	-	74	-20.37	20	101	H
2	* 2.484	51.04	Pk	32	-28.3	0	54.74	-	-	74	-19.26	20	101	H
3	* 2.484	41.41	RMS	32	-28.3	0	45.11	54	-8.89	-	-	20	101	H
4	* 2.484	41.86	RMS	32	-28.3	0	45.56	54	-8.44	-	-	20	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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 171_150619)	Path_2	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	46.26	Pk	32	-28.3	0	49.96	-	-	74	-24.04	226	100	V
2	2.505	49.31	Pk	32	-28.3	0	53.01	-	-	74	-20.99	226	100	V
3	* 2.484	37.25	RMS	32	-28.3	0	40.95	54	-13.05	-	-	226	100	V
4	* 2.484	37.67	RMS	32	-28.3	0	41.37	54	-12.63	-	-	226	100	V

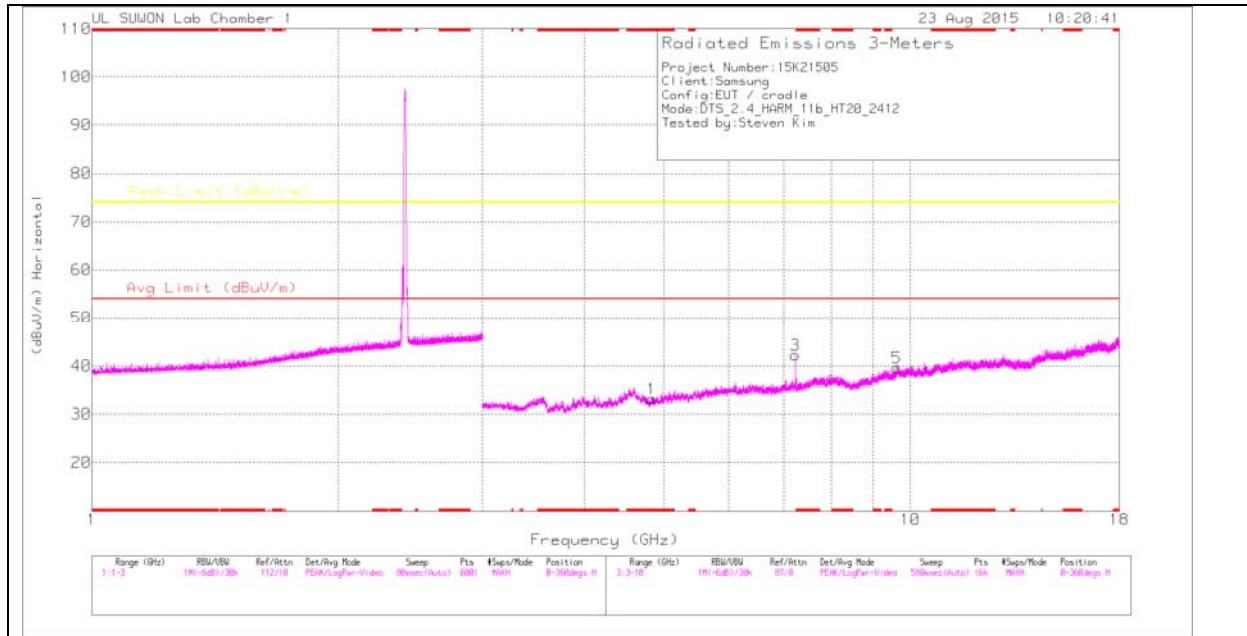
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

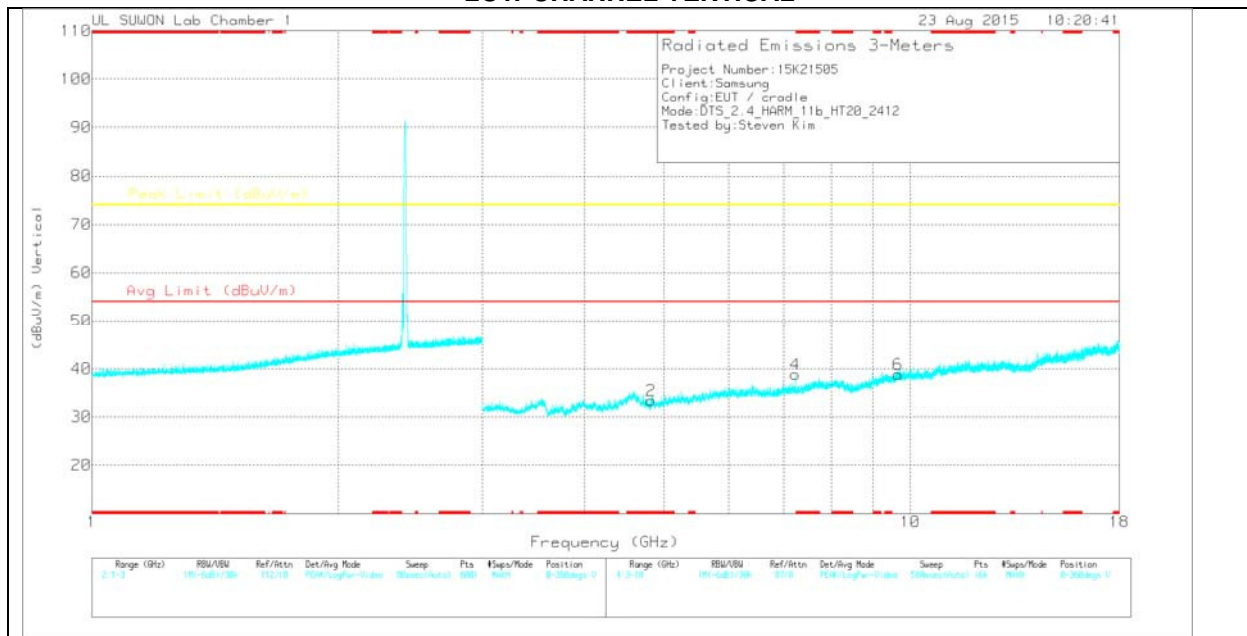
RMS - RMS detection

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	3117(0016872 4)_150619	Path_3	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	* 4.827	28.67	PK	34	-29.5	0	33.17	-	-	74	-40.83	0-360	100	H
3	7.235	32.06	PK	35.7	-25.5	0	42.26	-	-	74	-31.74	0-360	200	H
5	9.631	23.56	PK	37	-20.9	0	39.66	-	-	74	-34.34	0-360	200	H
2	* 4.822	28.98	PK	34	-29.6	0	33.38	-	-	74	-40.62	0-360	100	V
4	7.237	28.68	PK	35.7	-25.5	0	38.88	-	-	74	-35.12	0-360	200	V
6	9.652	22.6	PK	37.1	-20.8	0	38.9	-	-	74	-35.1	0-360	200	V

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

PK – Peak detector

Radiated Emissions

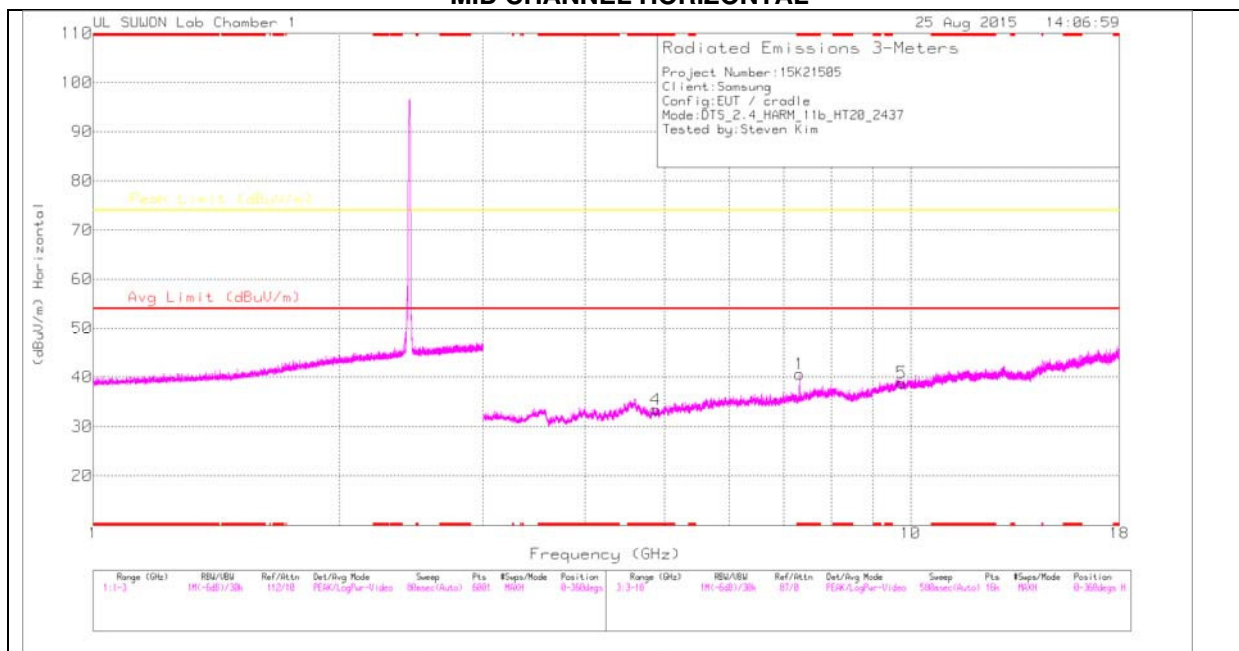
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8724)_150 619	Path_3	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7.238	37.09	PK2	35.7	-25.5	0	47.29	-	-	74	-26.71	140	285	H
7.232	37.9	PK2	35.7	-25.5	0	48.1	-	-	74	-25.9	191	138	V

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

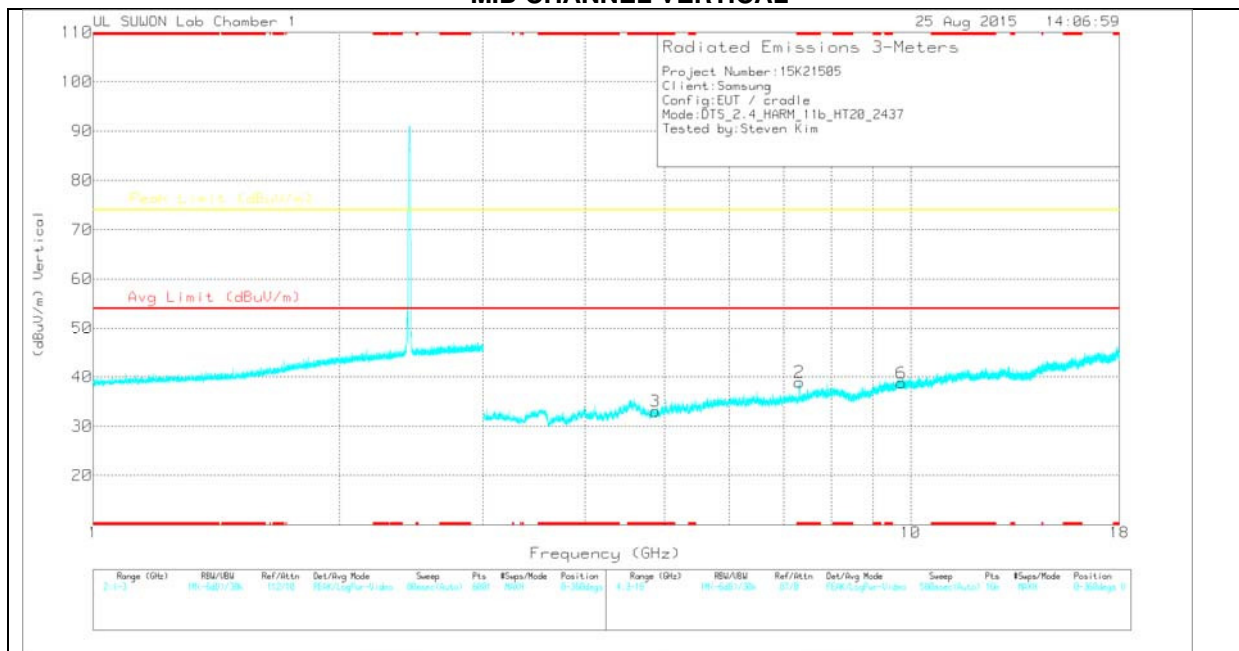
PK2 - KDB558074 Method: Maximum Peak

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

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



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

MID CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016872 4)_150619	Path_3	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	* 7.312	30.61	PK	35.7	-25.7	0	40.61	-	-	74	-33.39	0-360	200	H
4	* 4.878	28.55	PK	34	-29.1	0	33.45	-	-	74	-40.55	0-360	100	H
5	9.751	23.53	PK	37.2	-21.9	0	38.83	-	-	74	-35.17	0-360	100	H
2	* 7.31	28.95	PK	35.7	-25.7	0	38.95	-	-	74	-35.05	0-360	200	V
3	* 4.873	28.23	PK	34	-29.2	0	33.03	-	-	74	-40.97	0-360	200	V
6	9.744	23.37	PK	37.2	-21.8	0	38.77	-	-	74	-35.23	0-360	100	V

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

PK – Peak detector

Radiated Emissions

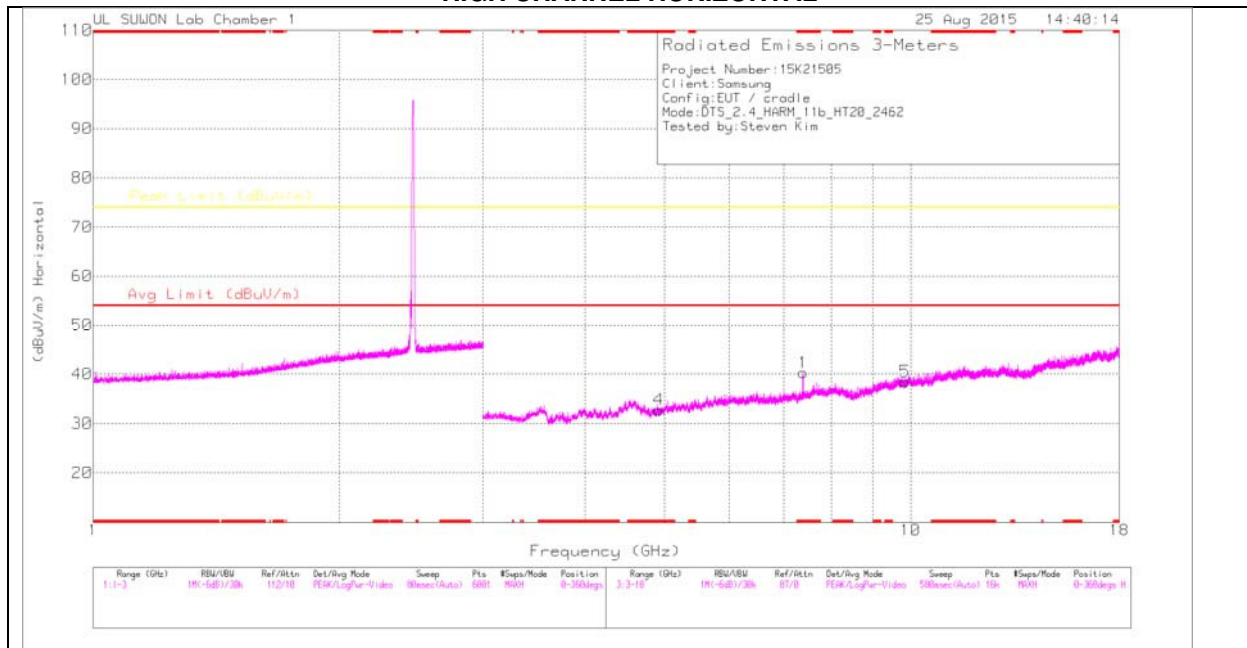
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8724)_150 619	Path_3	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 7.312	39.36	PK2	35.7	-25.7	0	49.36	-	-	74	-24.64	207	165	H
* 7.31	29.15	MAv1	35.7	-25.7	0	39.15	54	-14.85	-	-	207	165	H
* 7.312	39.4	PK2	35.7	-25.7	0	49.4	-	-	74	-24.6	166	261	V
* 7.312	28.8	MAv1	35.7	-25.7	0	38.8	54	-15.2	-	-	166	261	V

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

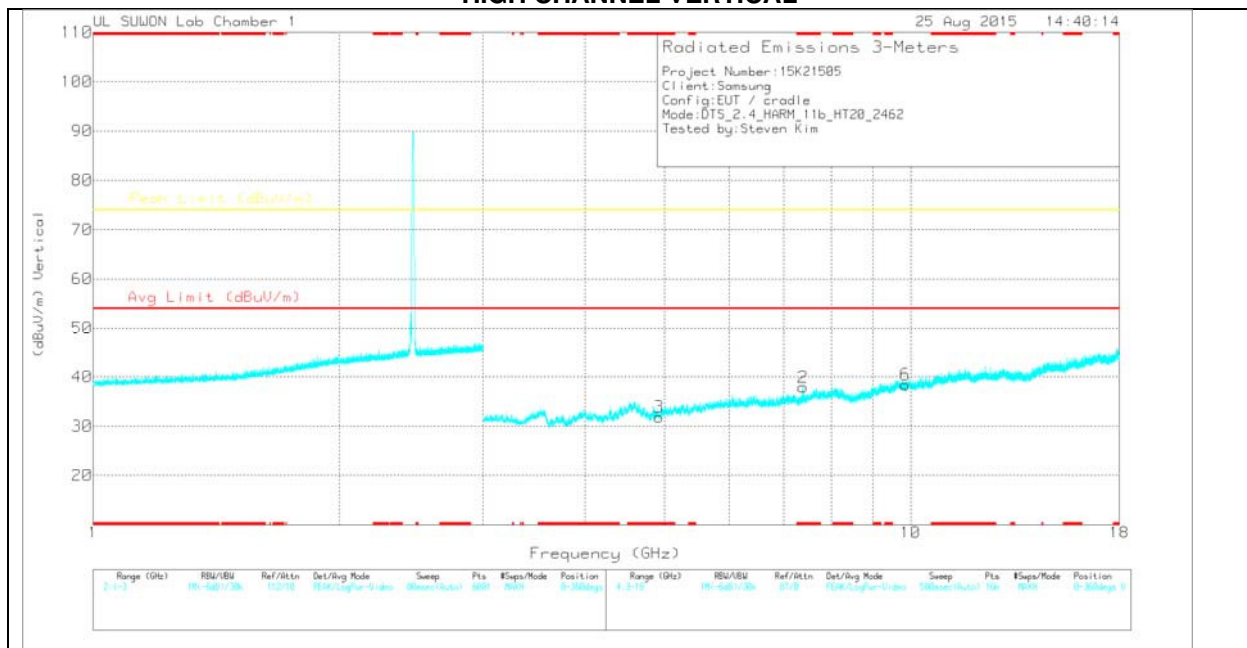
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



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

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016872 4)_150619	Path_3	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	* 7.387	29.59	PK	35.8	-25.1	0	40.29	-	-	74	-33.71	0-360	200	H
4	* 4.92	27.86	PK	34	-29.1	0	32.76	-	-	74	-41.24	0-360	100	H
5	9.846	22.78	PK	37.3	-21.6	0	38.48	-	-	74	-35.52	0-360	200	H
2	* 7.386	27.22	PK	35.8	-25.1	0	37.92	-	-	74	-36.08	0-360	200	V
3	* 4.926	26.87	PK	34	-29	0	31.87	-	-	74	-42.13	0-360	200	V
6	9.847	22.76	PK	37.3	-21.6	0	38.46	-	-	74	-35.54	0-360	200	V

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

PK – Peak detector

Radiated Emissions

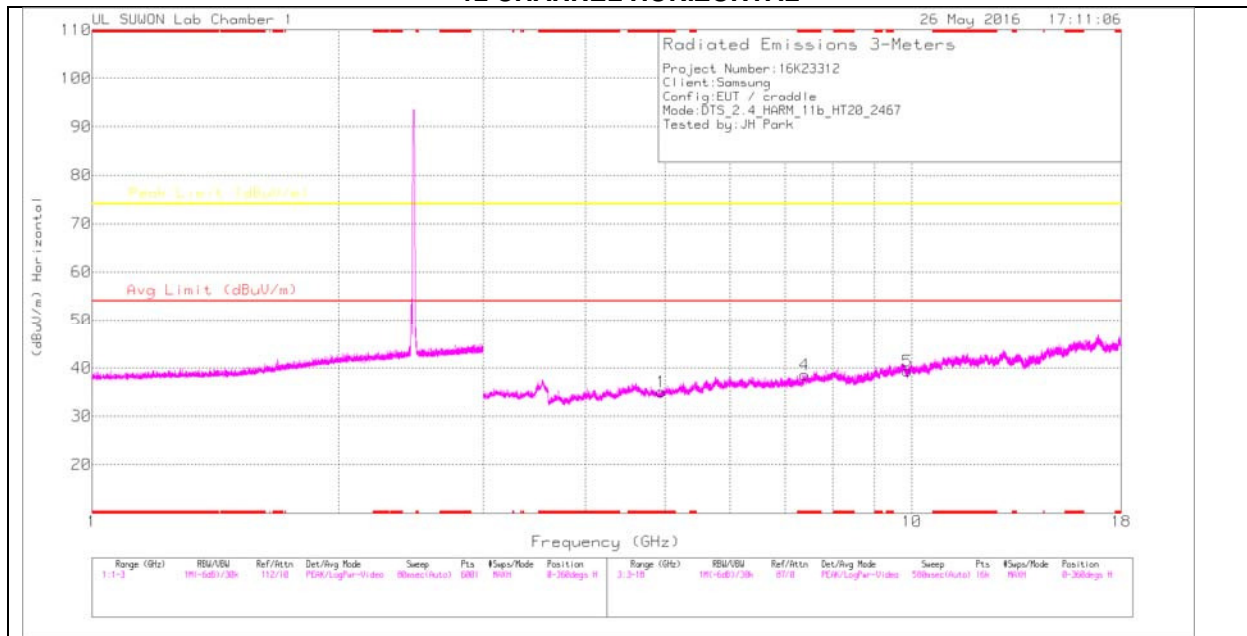
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8724)_150 619	Path_3	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 7.386	38.42	PK2	35.8	-25.1	0	49.12	-	-	74	-24.88	184	199	H
* 7.385	29.4	MAv1	35.8	-25.1	0	40.1	54	-13.9	-	-	184	199	H
* 7.385	38.96	PK2	35.8	-25.1	0	49.66	-	-	74	-24.34	165	293	V
* 7.385	28.86	MAv1	35.8	-25.1	0	39.56	54	-14.44	-	-	165	293	V

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

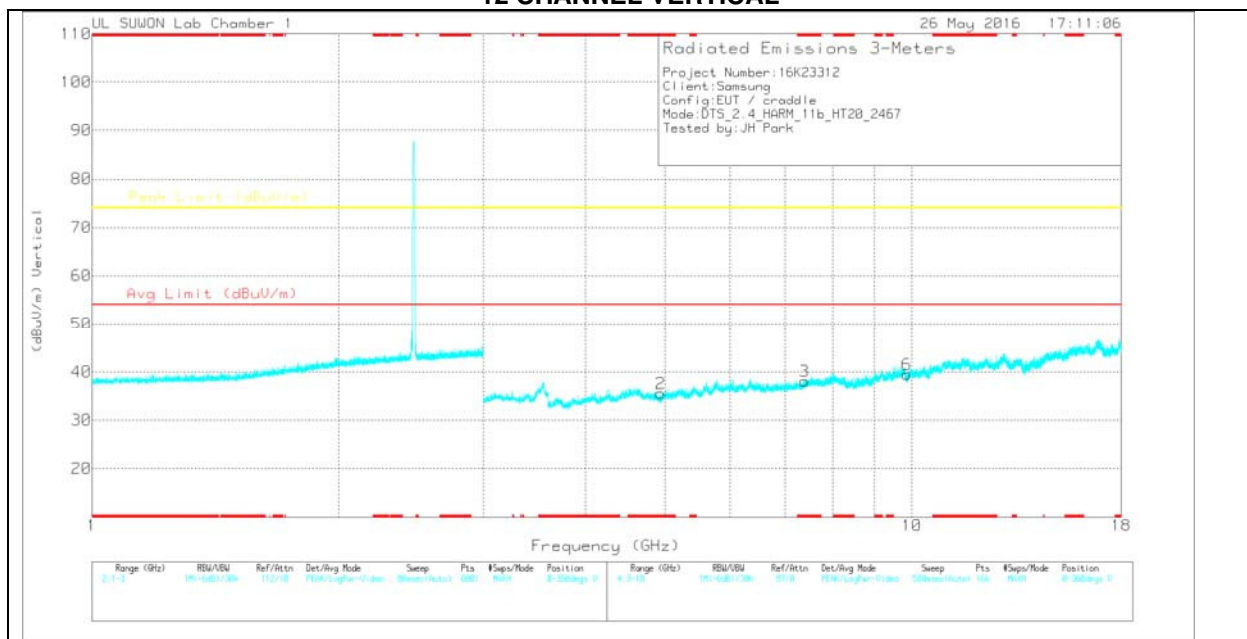
PK2 - KDB558074 Method: Maximum Peak

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

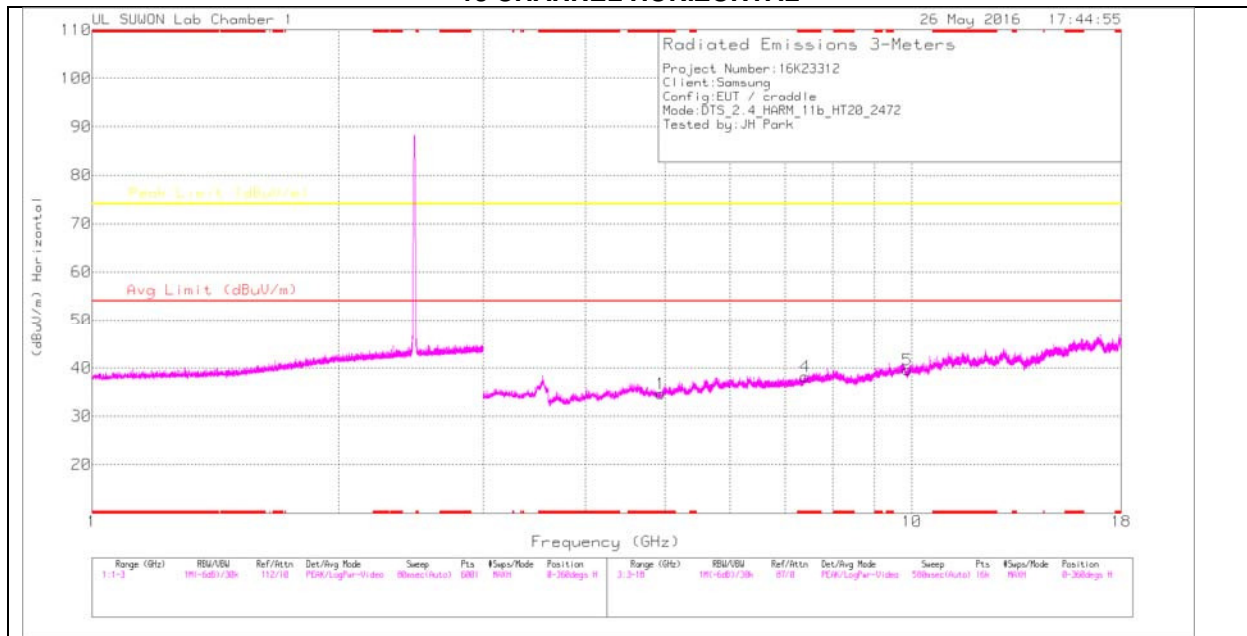
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016871 7)_150619	Path_3	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.945	35.06	PK	34	-34	0	35.06	-	-	74	-38.94	0-360	200	H
4	* 7.396	33.34	PK	35.8	-30.6	0	38.54	-	-	74	-35.46	0-360	100	H
5	9.869	29.91	PK	37.3	-27.9	0	39.31	-	-	74	-34.69	0-360	100	H
2	* 4.941	35.57	PK	34	-34	0	35.57	-	-	74	-38.43	0-360	100	V
3	* 7.395	32.9	PK	35.8	-30.6	0	38.1	-	-	74	-35.9	0-360	100	V
6	9.865	30.05	PK	37.3	-27.9	0	39.45	-	-	74	-34.55	0-360	100	V

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

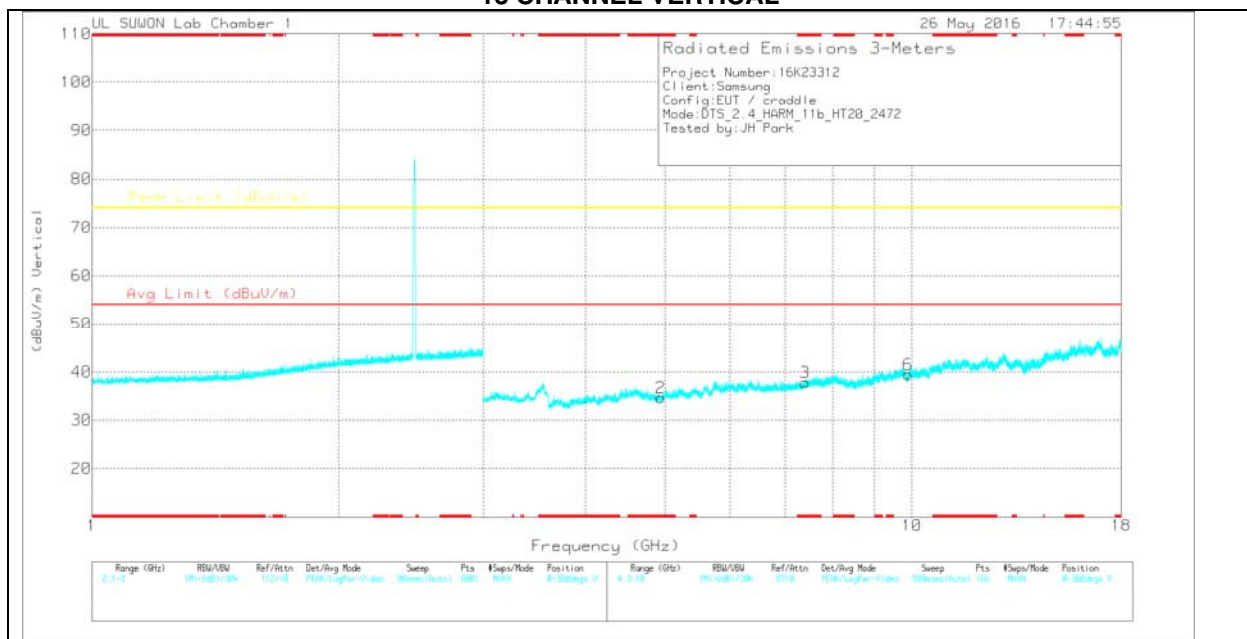
PK – Peak detector

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

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(0016871 7)_150619	Path_3	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	34.63	PK	34	-34	0	34.63	-	-	74	-39.37	0-360	200	H
4	* 7.415	33.08	PK	35.8	-30.7	0	38.18	-	-	74	-35.82	0-360	100	H
5	9.881	30.23	PK	37.3	-27.9	0	39.63	-	-	74	-34.37	0-360	100	H
2	* 4.938	34.63	PK	34	-34	0	34.63	-	-	74	-39.37	0-360	100	V
3	* 7.413	32.71	PK	35.8	-30.7	0	37.81	-	-	74	-36.19	0-360	200	V
6	9.889	29.95	PK	37.3	-27.8	0	39.45	-	-	74	-34.55	0-360	200	V

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

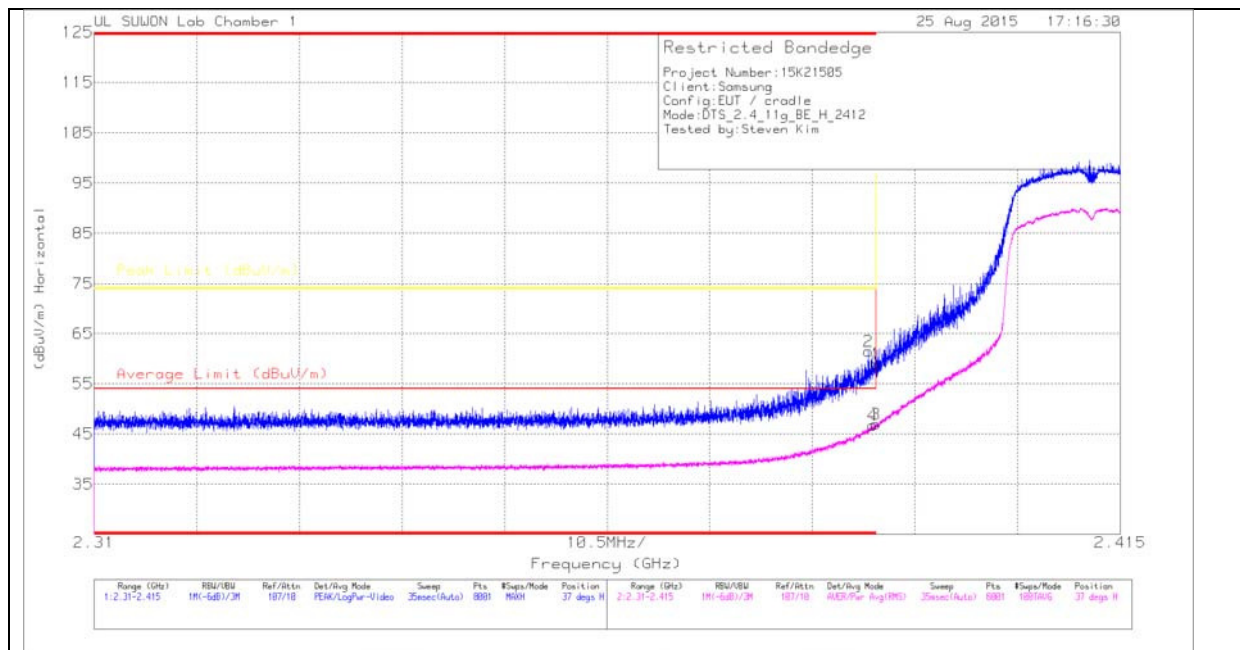
PK – Peak detector

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

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

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

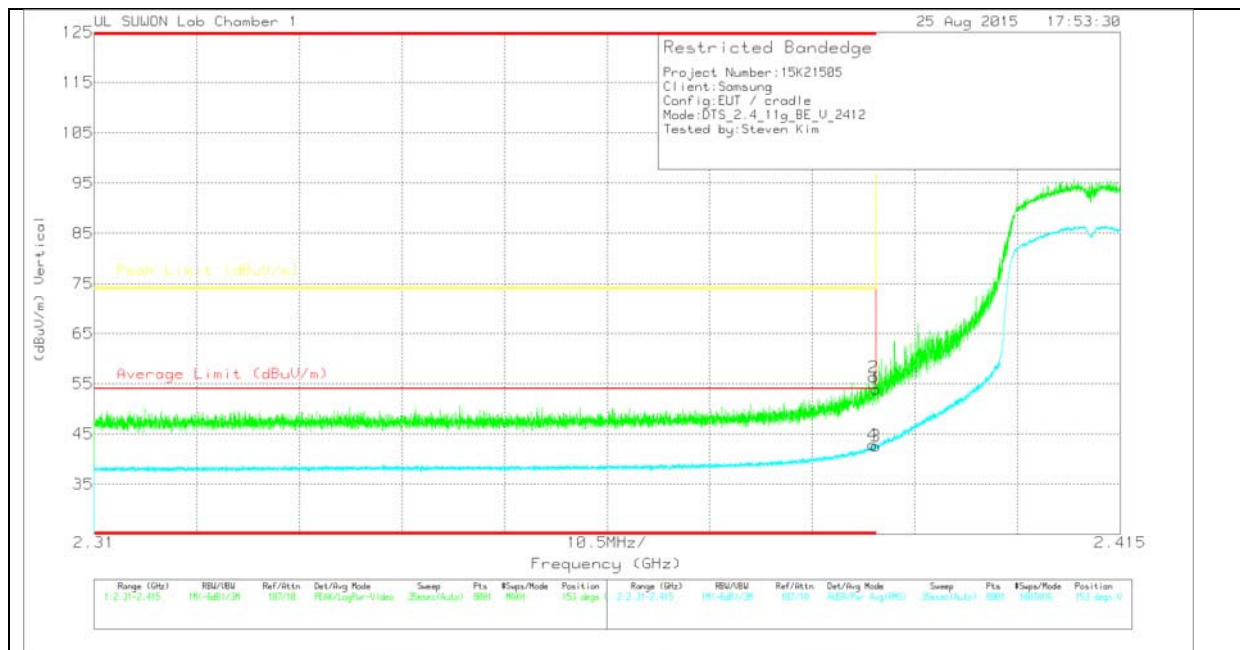
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	Path_2_10dB	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	49.9	Pk	31.8	-22.8	0	58.9	-	-	74	-15.1	37	102	H
2	* 2.389	52.42	Pk	31.8	-22.8	0	61.42	-	-	74	-12.58	37	102	H
3	* 2.39	37.66	RMS	31.8	-22.8	.29	46.95	54	-7.05	-	-	37	102	H
4	* 2.39	37.42	RMS	31.8	-22.8	.29	46.71	54	-7.29	-	-	37	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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_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	* 2.39	44.92	Pk	31.8	-22.8	0	53.92	-	-	74	-20.08	153	286	V
2	* 2.39	47.32	Pk	31.8	-22.8	0	56.32	-	-	74	-17.68	153	286	V
3	* 2.39	33.3	RMS	31.8	-22.8	29	42.59	54	-11.41	-	-	153	286	V
4	* 2.39	33.56	RMS	31.8	-22.8	29	42.85	54	-11.15	-	-	153	286	V

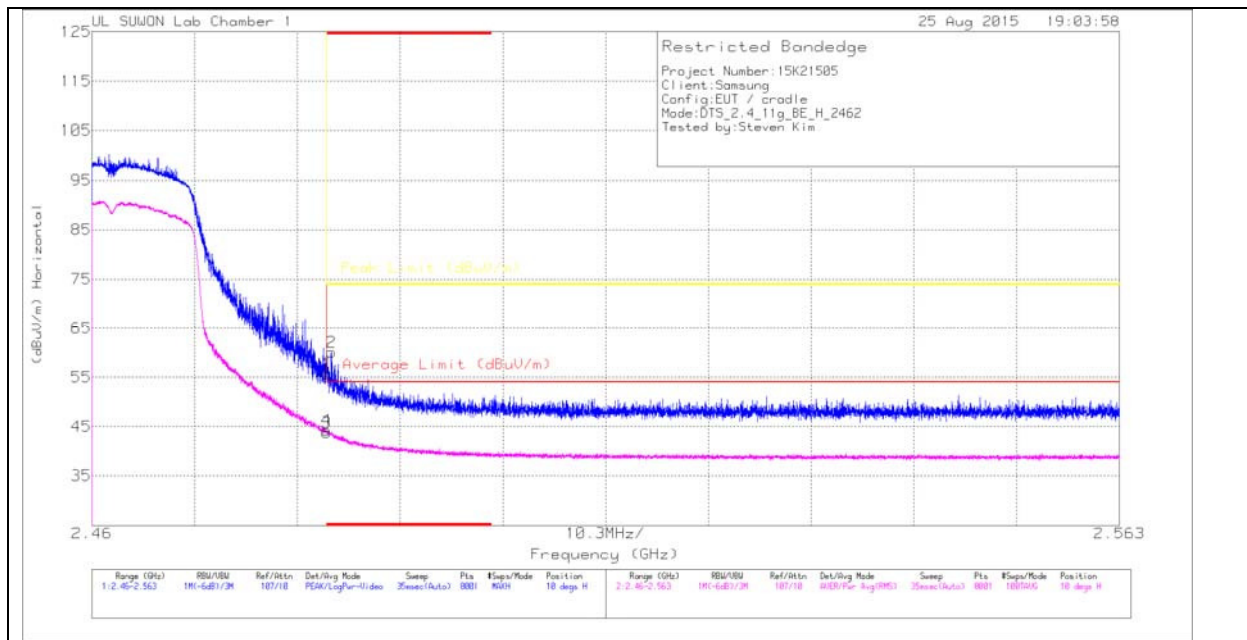
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

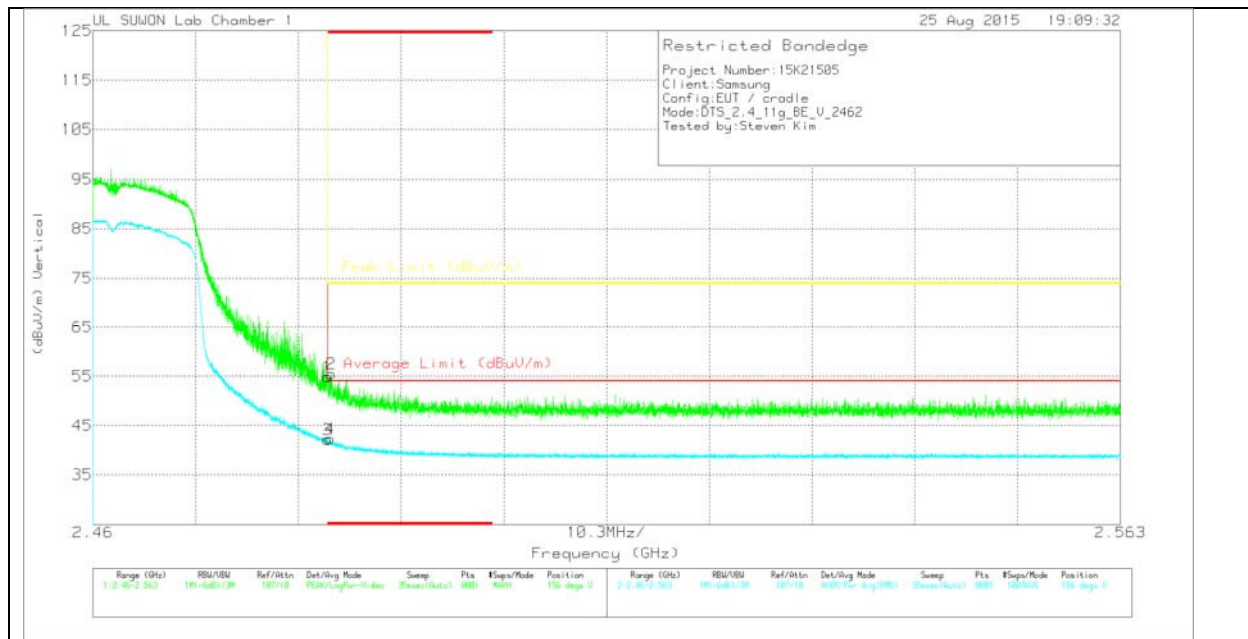
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	Path_2_10dB	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	46.31	Pk	32	-22.6	0	55.71	-	-	74	-18.29	10	274	H
2	* 2.484	50.74	Pk	32	-22.6	0	60.14	-	-	74	-13.86	10	274	H
3	* 2.484	34.12	RMS	32	-22.6	.29	43.81	54	-10.19	-	-	10	274	H
4	* 2.484	34.61	RMS	32	-22.6	.29	44.3	54	-9.7	-	-	10	274	H

* - indicates frequency in CFR15.205/IC7.2.2 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(001687 24)_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	45.54	Pk	32	-22.6	0	54.94	-	-	74	-19.06	156	276	V
2	* 2.484	46.08	Pk	32	-22.6	0	55.48	-	-	74	-18.52	156	276	V
3	* 2.484	32.5	RMS	32	-22.6	.29	42.19	54	-11.81	-	-	156	276	V
4	* 2.484	32.56	RMS	32	-22.6	.29	42.25	54	-11.75	-	-	156	276	V

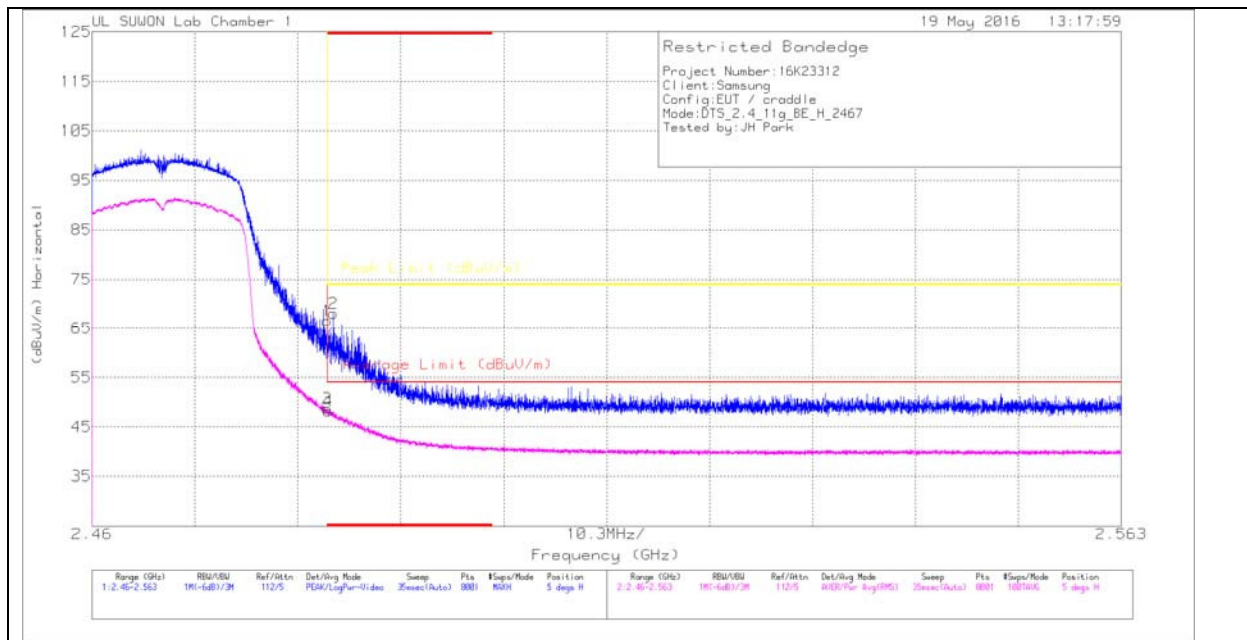
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (12 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 17)_150619	Path_2	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	62.95	Pk	32	-28.3	0	66.65	-	-	74	-7.35	5	100	H
2	* 2.484	64.4	Pk	32	-28.3	0	68.1	-	-	74	-5.9	5	100	H
3	* 2.484	44.75	RMS	32	-28.3	.29	48.74	54	-5.26	-	-	5	100	H
4	* 2.484	44.25	RMS	32	-28.3	.29	48.24	54	-5.76	-	-	5	100	H

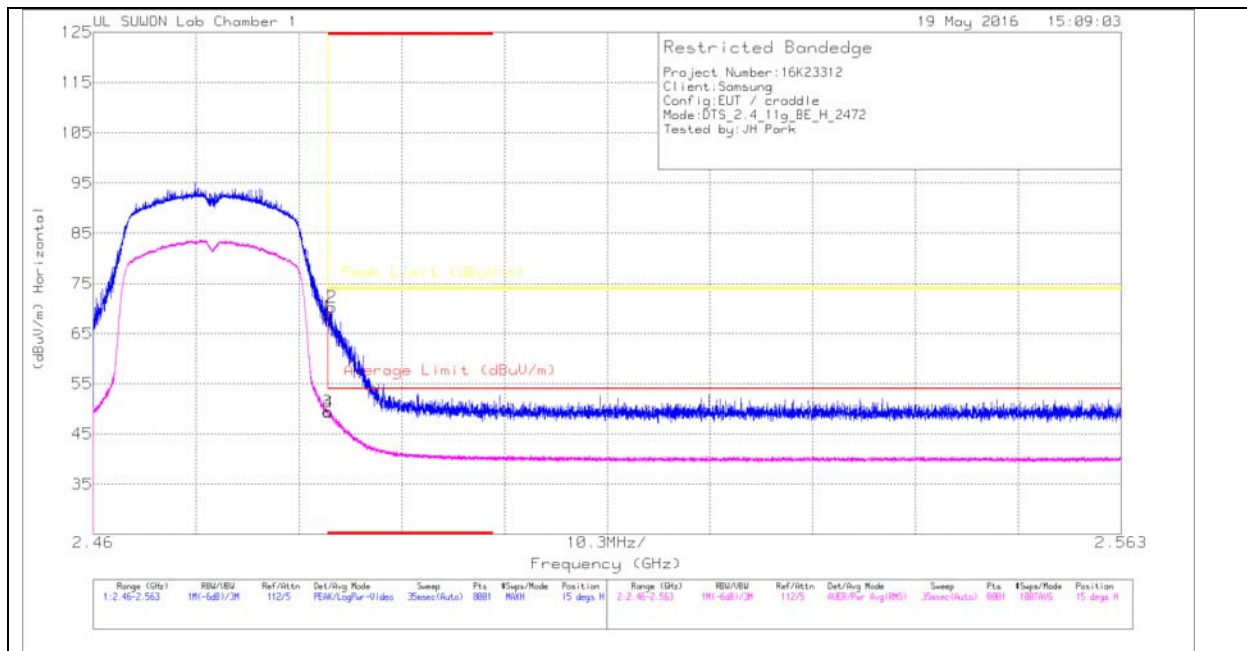
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (13 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

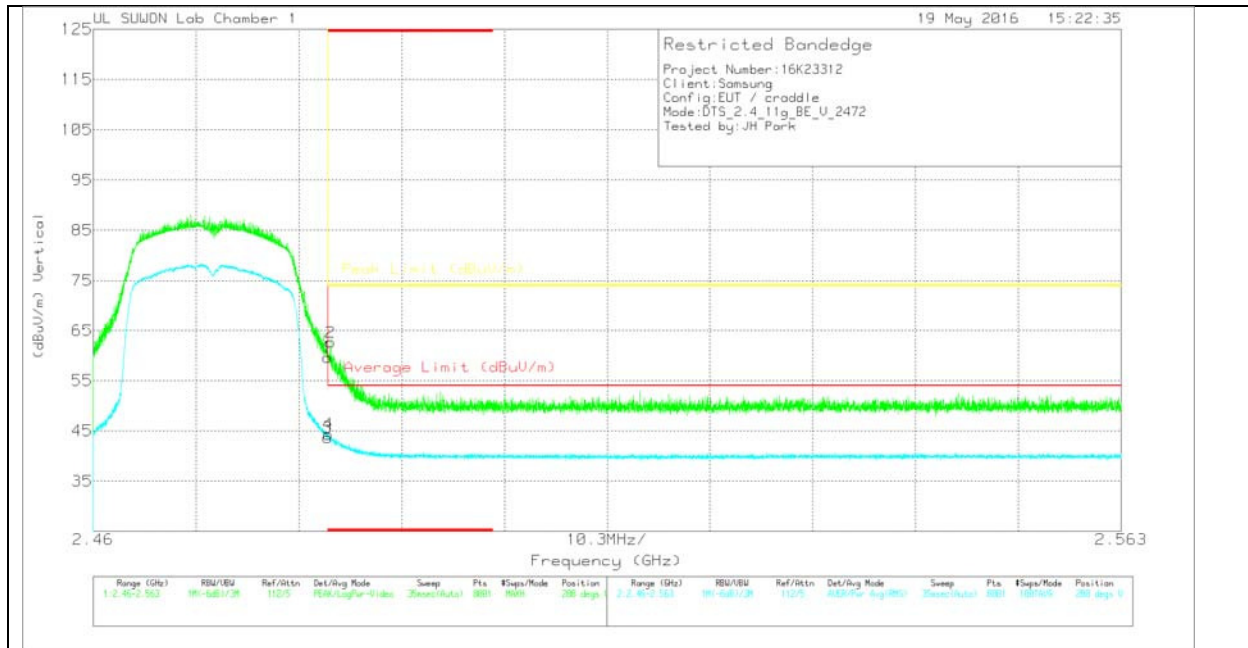
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 17)_150619	Path_2	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	64.93	Pk	32	-28.3	0	68.63	-	-	74	-5.37	15	100	H
2	* 2.484	66.65	Pk	32	-28.3	0	70.35	-	-	74	-3.65	15	100	H
3	* 2.484	45.81	RMS	32	-28.3	.29	49.8	54	-4.2	-	-	15	100	H
4	* 2.484	45.57	RMS	32	-28.3	.29	49.56	54	-4.44	-	-	15	100	H

* - indicates frequency in CFR15.205/IC7.2.2 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(001687 17)_150619	Path_2	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	55.89	Pk	32	-28.3	0	59.59	-	-	74	-14.41	288	338	V
2	* 2.484	58.94	Pk	32	-28.3	0	62.64	-	-	74	-11.36	288	338	V
3	* 2.484	39.66	RMS	32	-28.3	.29	43.65	54	-10.35	-	-	288	338	V
4	* 2.484	40.35	RMS	32	-28.3	.29	44.34	54	-9.66	-	-	288	338	V

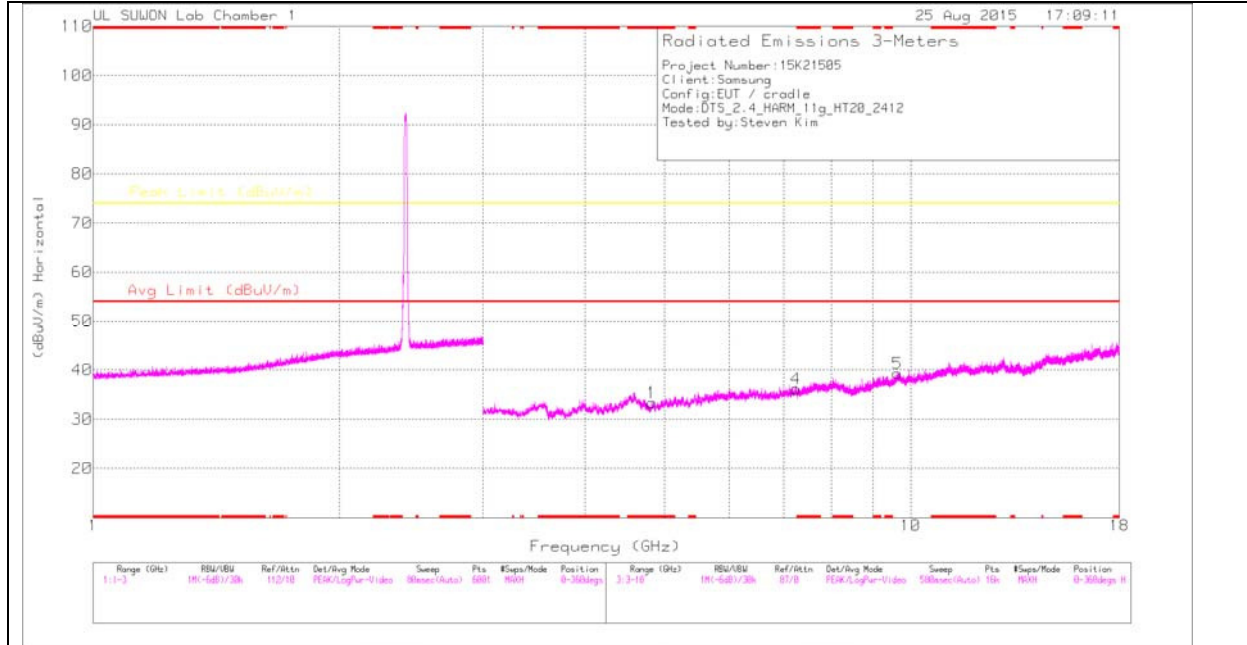
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

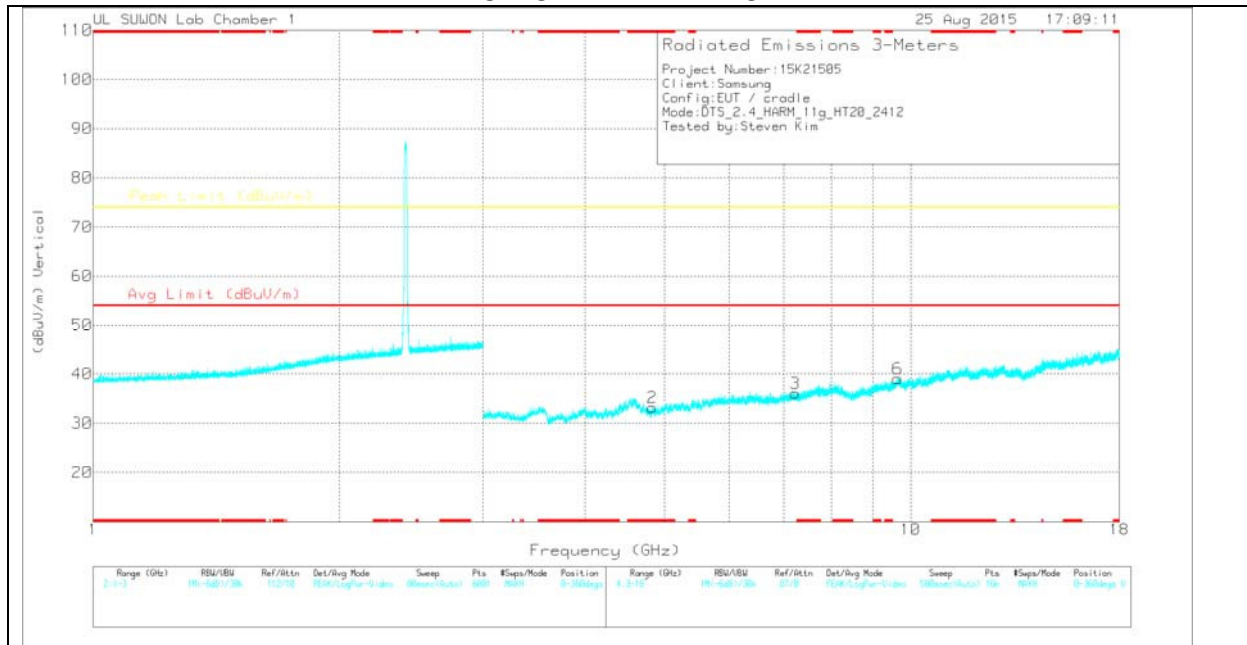
RMS - RMS detection

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

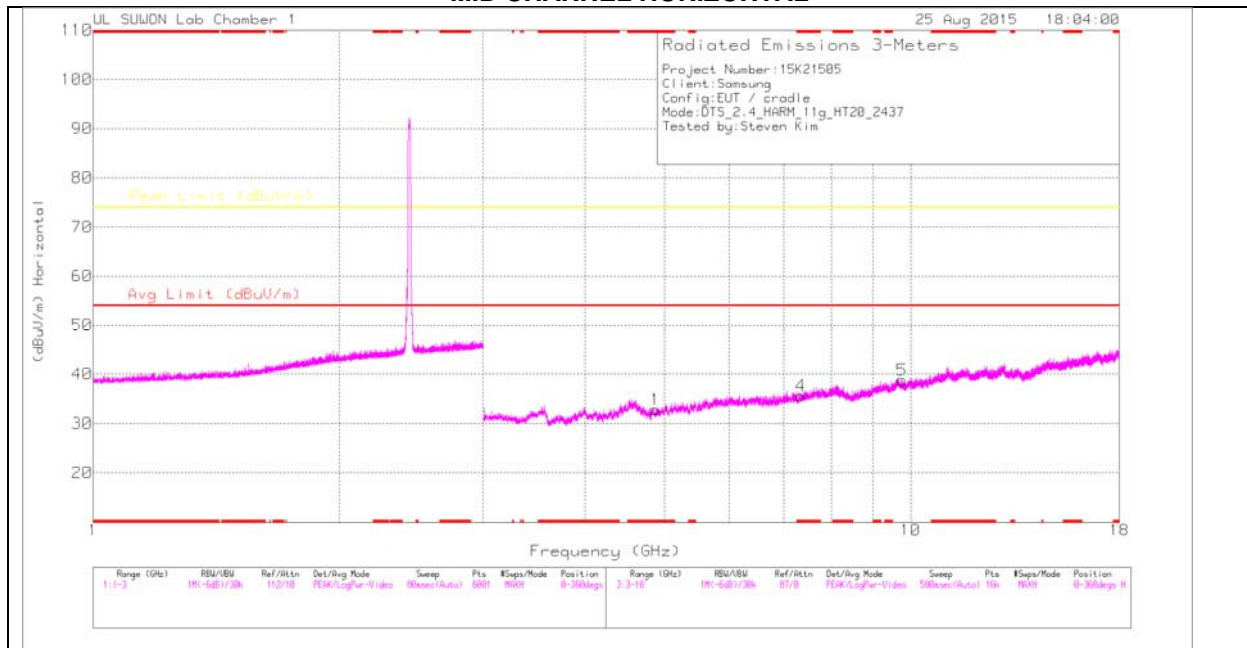
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016872 4)_150619	Path_3	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.827	28.84	PK	34	-29.5	0	33.34	-	-	74	-40.66	0-360	100	H
4	7.24	25.95	PK	35.7	-25.5	0	36.15	-	-	74	-37.85	0-360	200	H
5	9.638	23.11	PK	37	-20.8	0	39.31	-	-	74	-34.69	0-360	200	H
2	* 4.829	28.71	PK	34	-29.5	0	33.21	-	-	74	-40.79	0-360	200	V
3	7.233	25.87	PK	35.7	-25.5	0	36.07	-	-	74	-37.93	0-360	200	V
6	9.644	22.73	PK	37.1	-20.8	0	39.03	-	-	74	-34.97	0-360	100	V

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

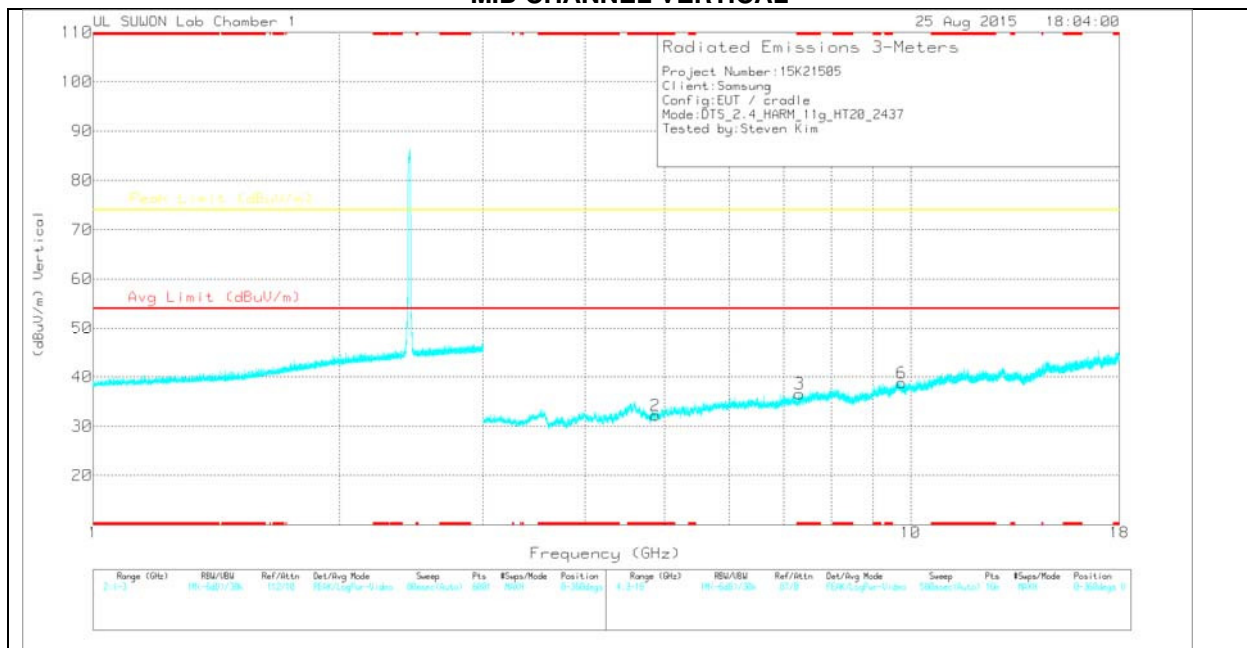
PK – Peak detector

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

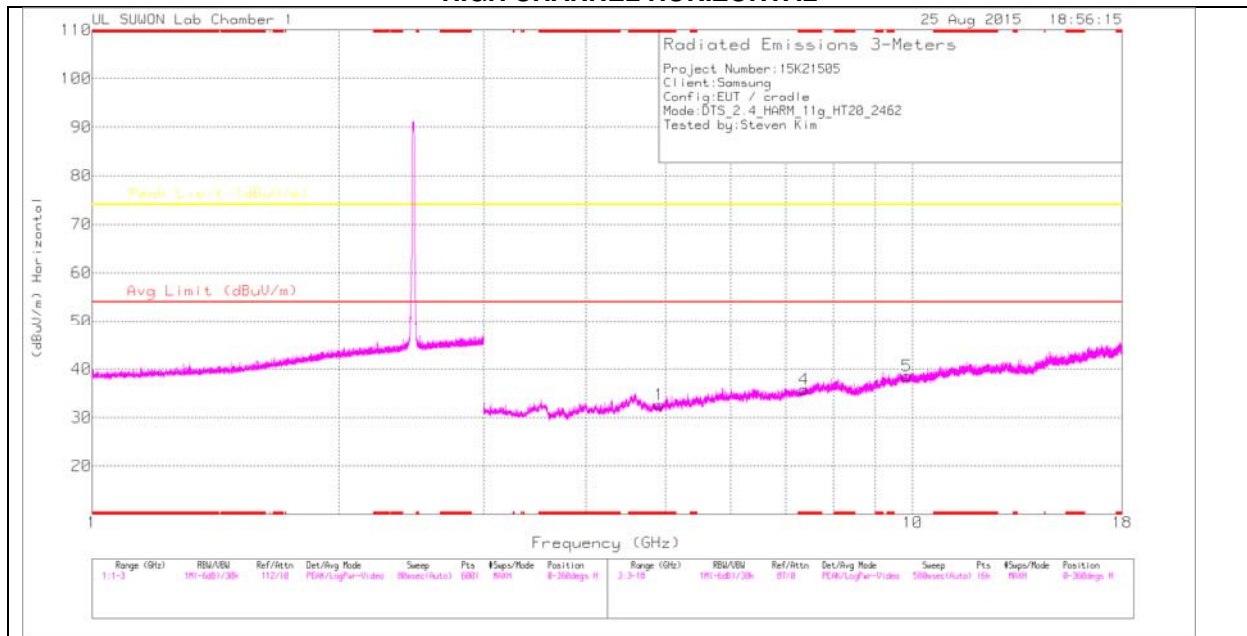
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016872 4)_150619	Path_3	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.873	28.04	PK	34	-29.2	0	32.84	-	-	74	-41.16	0-360	100	H
4	* 7.339	25.3	PK	35.8	-25.5	0	35.6	-	-	74	-38.4	0-360	200	H
5	9.759	23.56	PK	37.2	-22	0	38.76	-	-	74	-35.24	0-360	100	H
2	* 4.875	27.38	PK	34	-29.2	0	32.18	-	-	74	-41.82	0-360	100	V
3	* 7.31	26.6	PK	35.7	-25.7	0	36.6	-	-	74	-37.4	0-360	200	V
6	9.755	23.6	PK	37.2	-22	0	38.8	-	-	74	-35.2	0-360	200	V

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

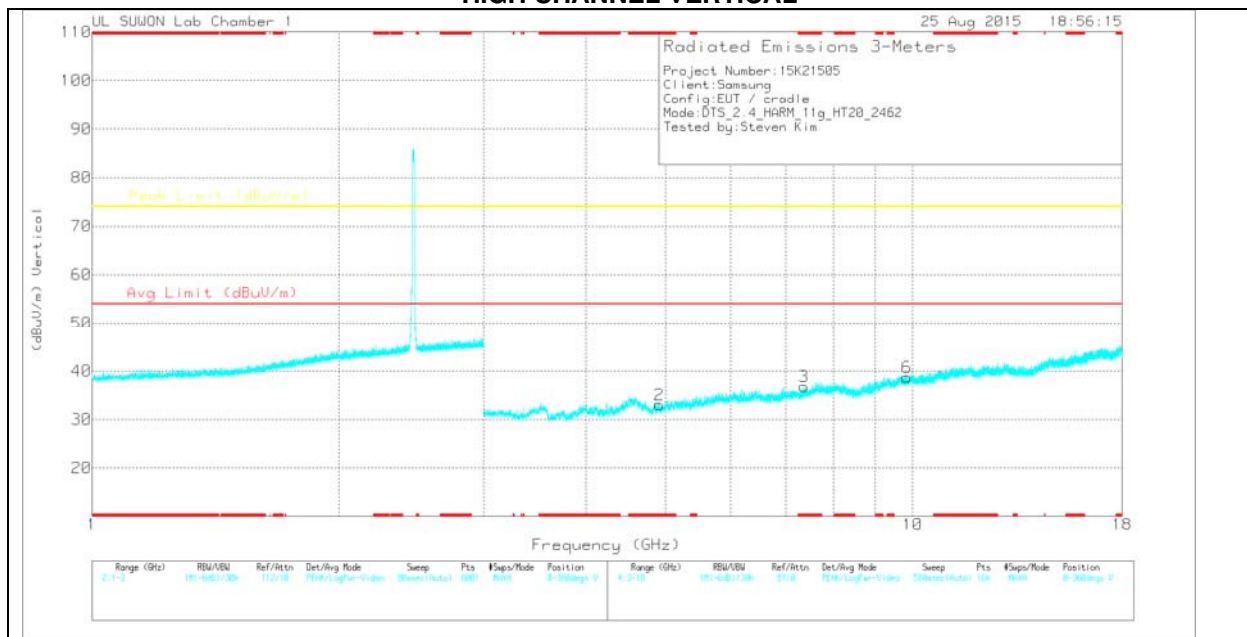
PK – Peak detector

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

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



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

HIGH CHANNEL DATA

Trace Markers

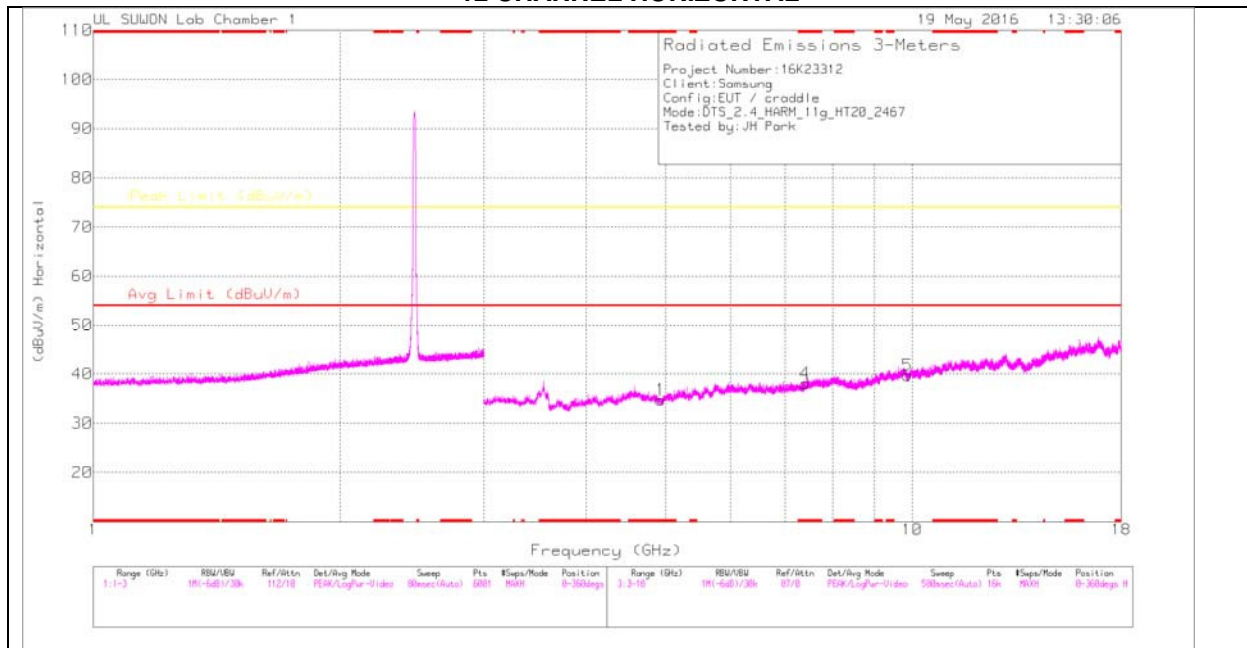
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016872 4)_150619	Path_3	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.914	27.79	PK	34	-29.1	0	32.69	-	-	74	-41.31	0-360	100	H
4	* 7.376	25.26	PK	35.8	-25.2	0	35.86	-	-	74	-38.14	0-360	100	H
5	9.836	23.07	PK	37.3	-21.8	0	38.57	-	-	74	-35.43	0-360	100	H
2	* 4.914	28.13	PK	34	-29.1	0	33.03	-	-	74	-40.97	0-360	200	V
3	* 7.371	26.18	PK	35.8	-25.2	0	36.78	-	-	74	-37.22	0-360	200	V
6	9.84	23.07	PK	37.3	-21.7	0	38.67	-	-	74	-35.33	0-360	200	V

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

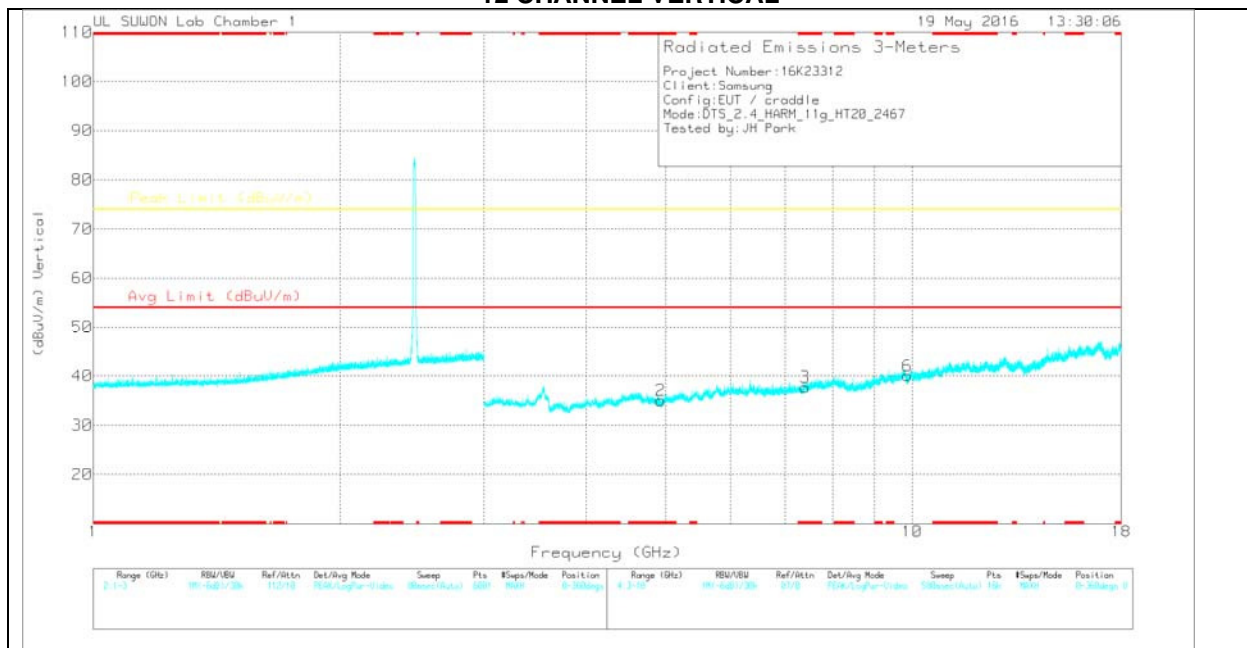
PK – Peak detector

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

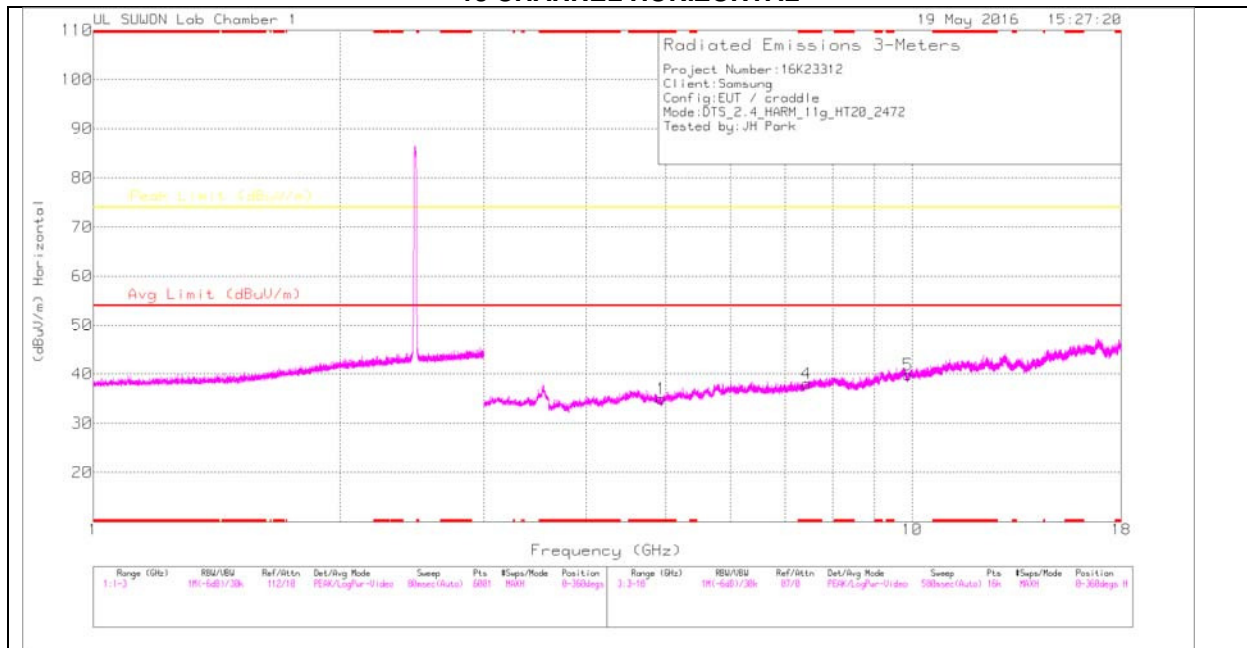
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016871 7)_150619	Path_3	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.931	34.72	PK	34	-34	0	34.72	-	-	74	-39.28	0-360	100	H
4	* 7.404	32.88	PK	35.8	-30.6	0	38.08	-	-	74	-35.92	0-360	200	H
5	9.865	30.36	PK	37.3	-27.9	0	39.76	-	-	74	-34.24	0-360	200	H
2	* 4.932	35.03	PK	34	-34	0	35.03	-	-	74	-38.97	0-360	100	V
3	* 7.4	32.52	PK	35.8	-30.6	0	37.72	-	-	74	-36.28	0-360	100	V
6	9.87	30.63	PK	37.3	-27.9	0	40.03	-	-	74	-33.97	0-360	100	V

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

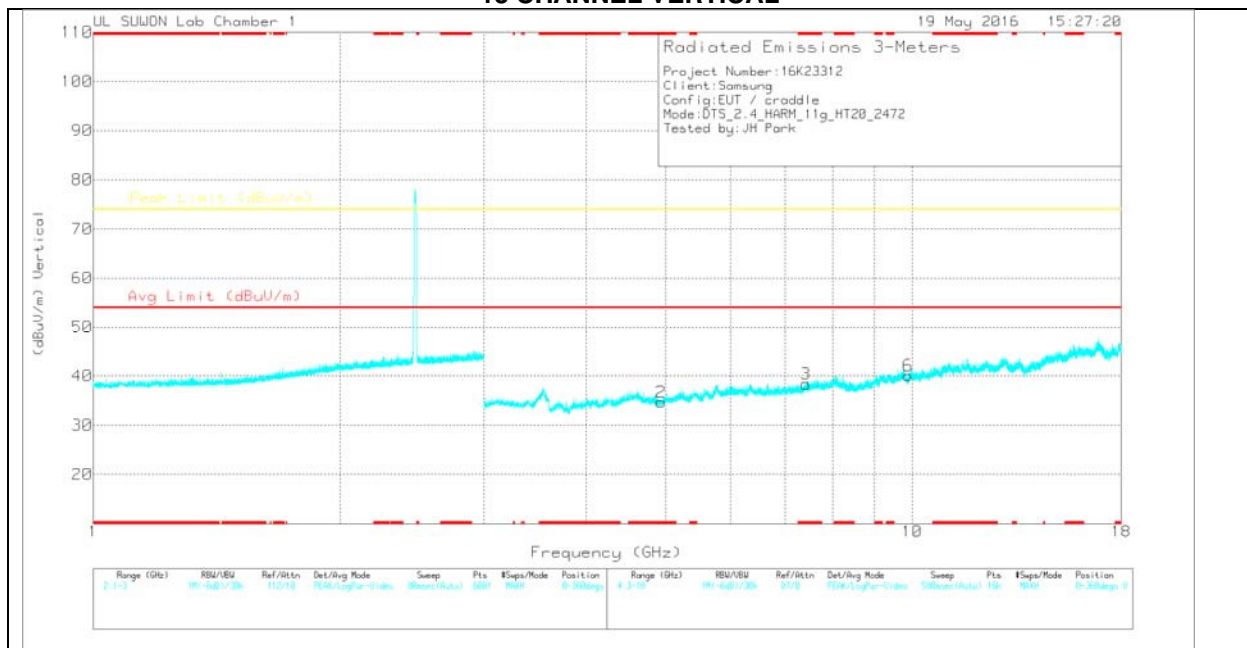
PK – Peak detector

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

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(0016871 7)_150619	Path_3	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	* 4.941	34.96	PK	34	-34	0	34.96	-	-	74	-39.04	0-360	200	H
4	* 7.427	33	PK	35.8	-30.8	0	38	-	-	74	-36	0-360	100	H
5	9.892	30.22	PK	37.4	-27.8	0	39.82	-	-	74	-34.18	0-360	200	H
2	* 4.937	34.69	PK	34	-34	0	34.69	-	-	74	-39.31	0-360	100	V
3	* 7.416	33.27	PK	35.8	-30.7	0	38.37	-	-	74	-35.63	0-360	100	V
6	9.891	30.57	PK	37.3	-27.8	0	40.07	-	-	74	-33.93	0-360	200	V

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

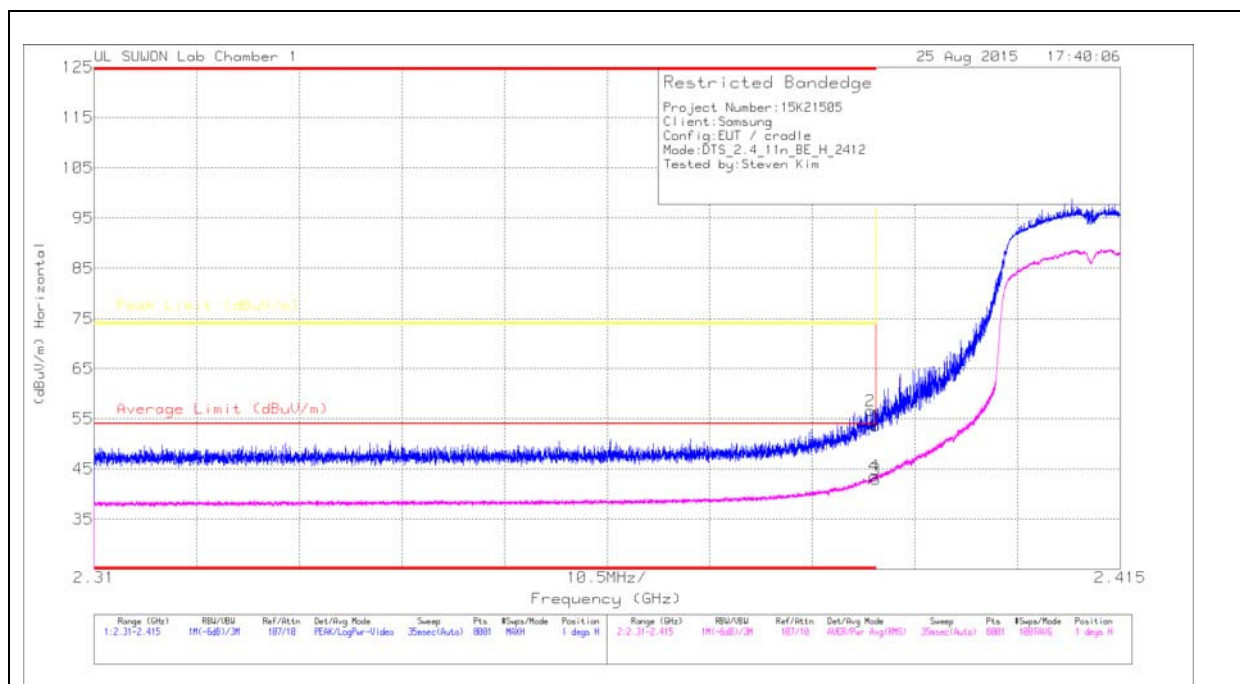
PK – Peak detector

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

11.2.3. 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

Trace Markers

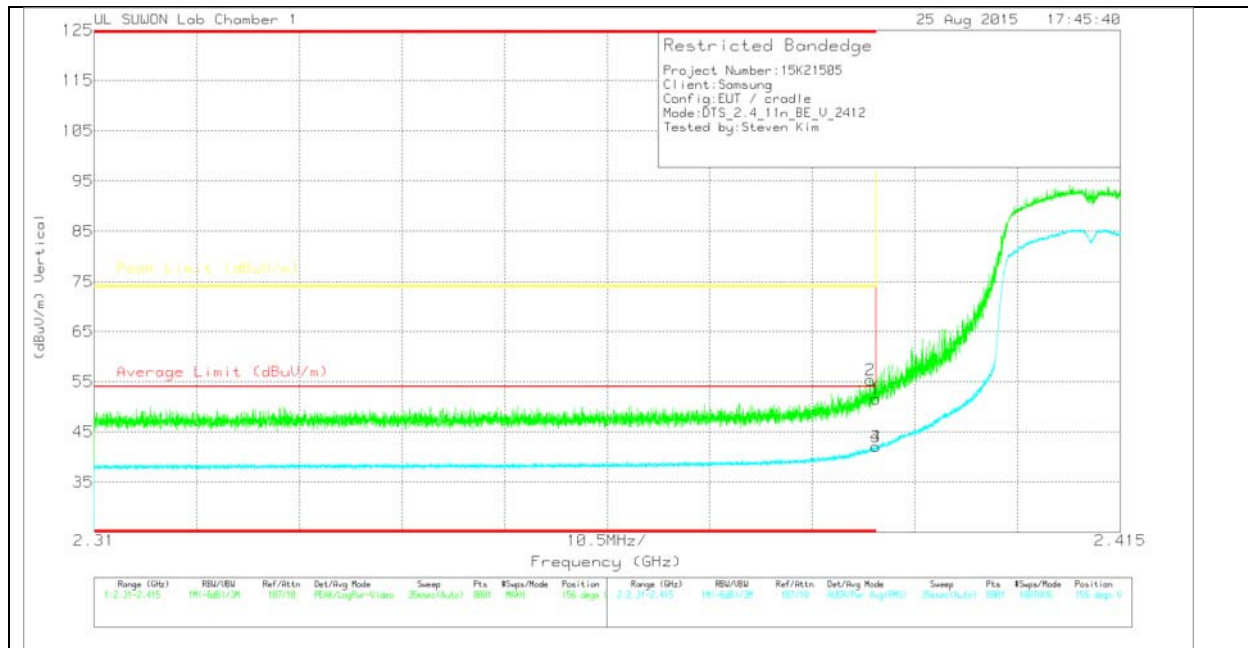
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	Path_2_10dB	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	44.59	Pk	31.8	-22.8	0	53.59	-	-	74	-20.41	1	283	H
2	* 2.389	47.57	Pk	31.8	-22.8	0	56.57	-	-	74	-17.43	1	283	H
3	* 2.39	33.61	RMS	31.8	-22.8	.32	42.93	54	-11.07	-	-	1	283	H
4	* 2.39	34.27	RMS	31.8	-22.8	.32	43.59	54	-10.41	-	-	1	283	H

* - indicates frequency in CFR15.205/IC7.2.2 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(001687 24)_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	* 2.39	42.53	Pk	31.8	-22.8	0	51.53	-	-	74	-22.47	156	282	V
2	* 2.389	46.3	Pk	31.8	-22.8	0	55.3	-	-	74	-18.7	156	282	V
3	* 2.39	32.74	RMS	31.8	-22.8	.32	42.06	54	-11.94	-	-	156	282	V
4	* 2.39	32.74	RMS	31.8	-22.8	.32	42.06	54	-11.94	-	-	156	282	V

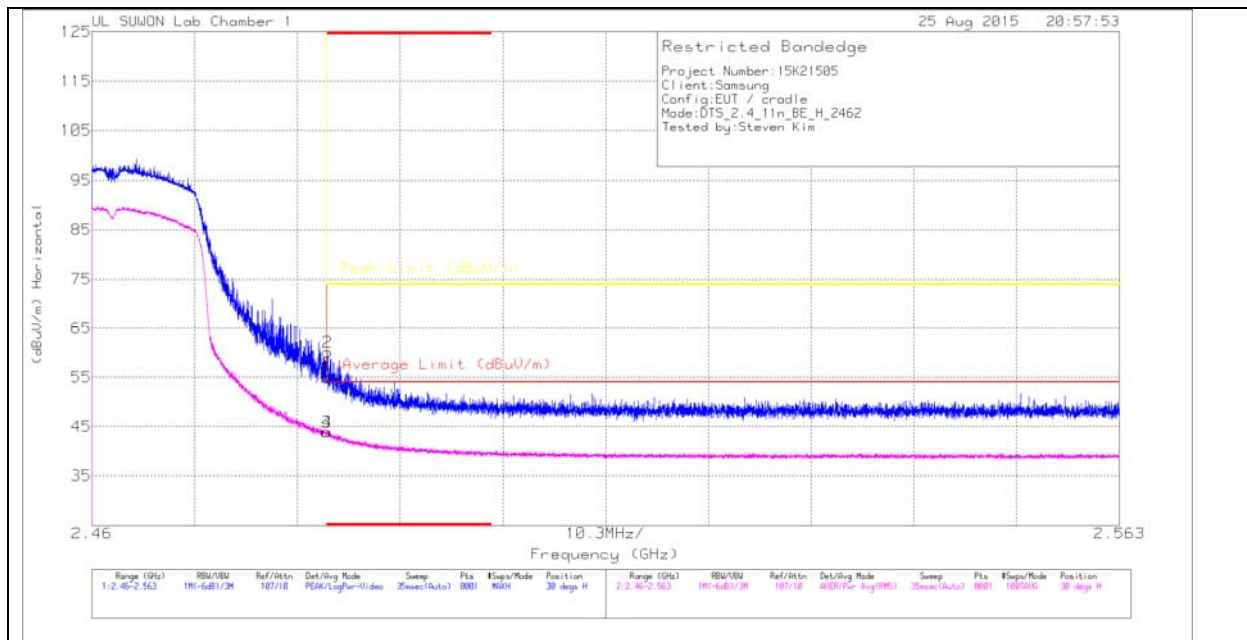
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

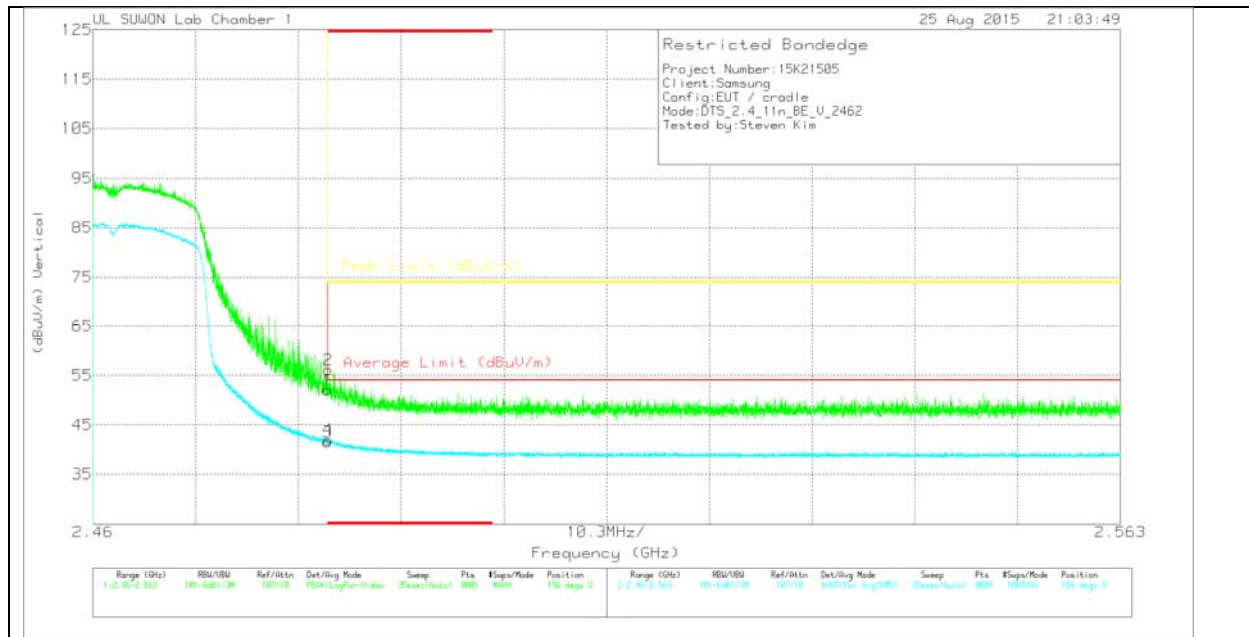
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	Path_2_10dB	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	45.6	Pk	32	-22.6	0	55	-	-	74	-19	30	273	H
2	* 2.484	50.72	Pk	32	-22.6	0	60.12	-	-	74	-13.88	30	273	H
3	* 2.484	34.21	RMS	32	-22.6	.32	43.93	54	-10.07	-	-	30	273	H
4	* 2.484	34.18	RMS	32	-22.6	.32	43.9	54	-10.1	-	-	30	273	H

* - indicates frequency in CFR15.205/IC7.2.2 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(001687 24)_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	42.7	Pk	32	-22.6	0	52.1	-	-	74	-21.9	156	265	V
2	* 2.484	46.74	Pk	32	-22.6	0	56.14	-	-	74	-17.86	156	265	V
3	* 2.484	31.81	RMS	32	-22.6	.32	41.53	54	-12.47	-	-	156	265	V
4	* 2.484	32.26	RMS	32	-22.6	.32	41.98	54	-12.02	-	-	156	265	V

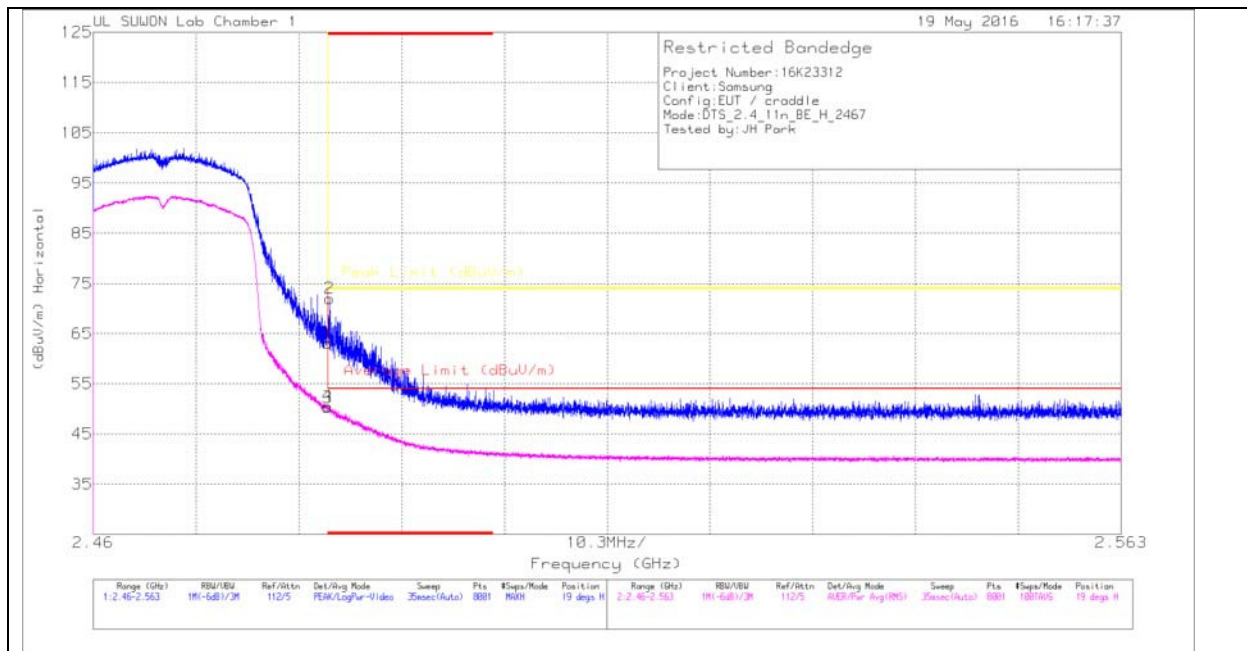
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (12 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

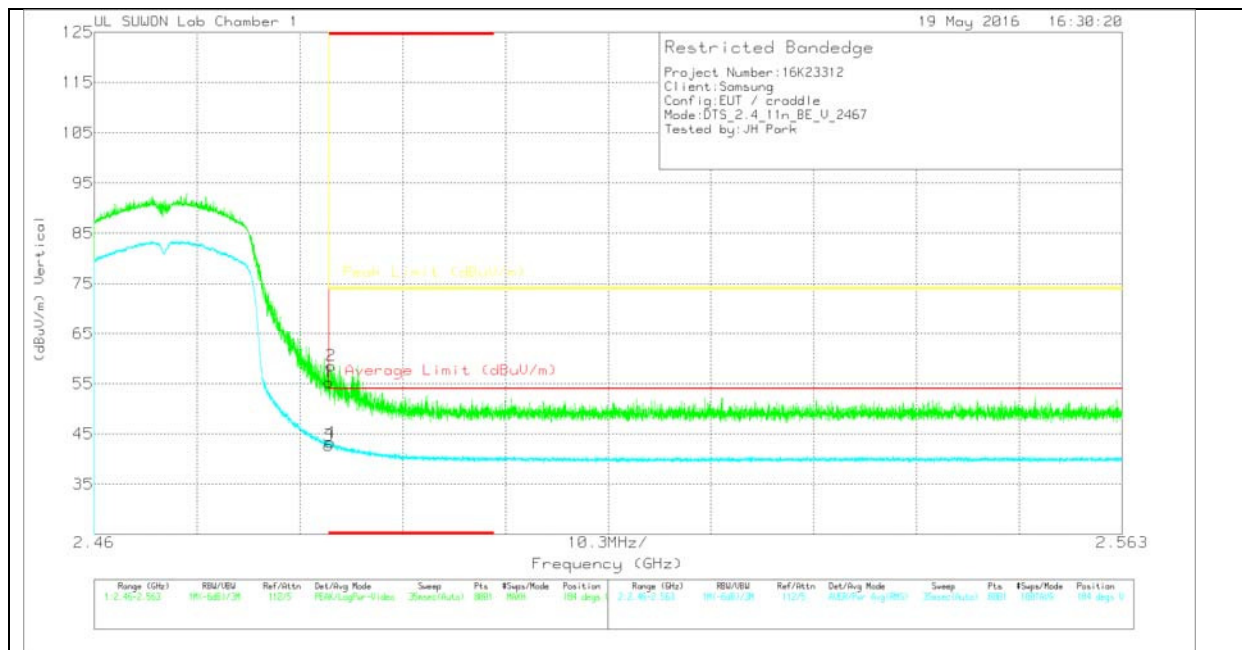
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 17)_150619	Path_2	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	59.36	Pk	32	-28.3	0	63.06	-	-	74	-10.94	19	101	H
2	* 2.484	67.38	Pk	32	-28.3	0	71.08	-	-	74	-2.92	19	101	H
3	* 2.484	46.26	RMS	32	-28.3	.32	50.28	54	-3.72	-	-	19	101	H
4	* 2.484	46.51	RMS	32	-28.3	.32	50.53	54	-3.47	-	-	19	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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 17)_150619	Path_2	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	51.59	Pk	32	-28.3	0	55.29	-	-	74	-18.71	184	173	V
2	* 2.484	54.88	Pk	32	-28.3	0	58.58	-	-	74	-15.42	184	173	V
3	* 2.484	38.71	RMS	32	-28.3	.32	42.73	54	-11.27	-	-	184	173	V
4	* 2.484	39.29	RMS	32	-28.3	.32	43.31	54	-10.69	-	-	184	173	V

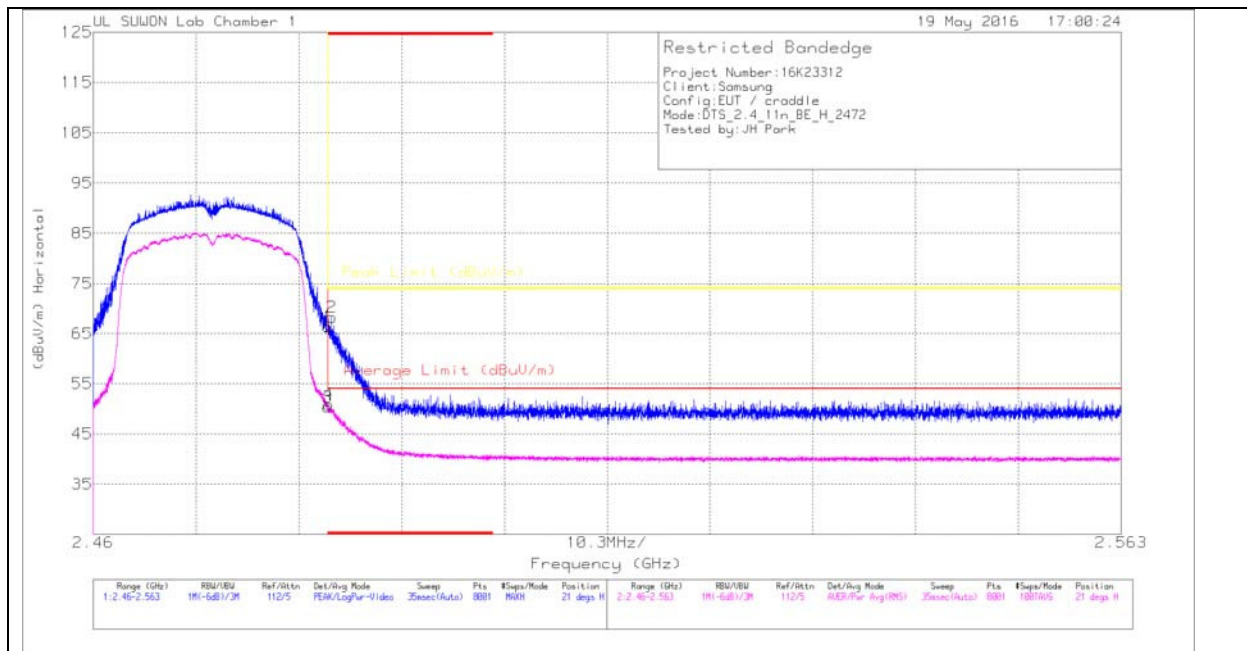
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (13 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

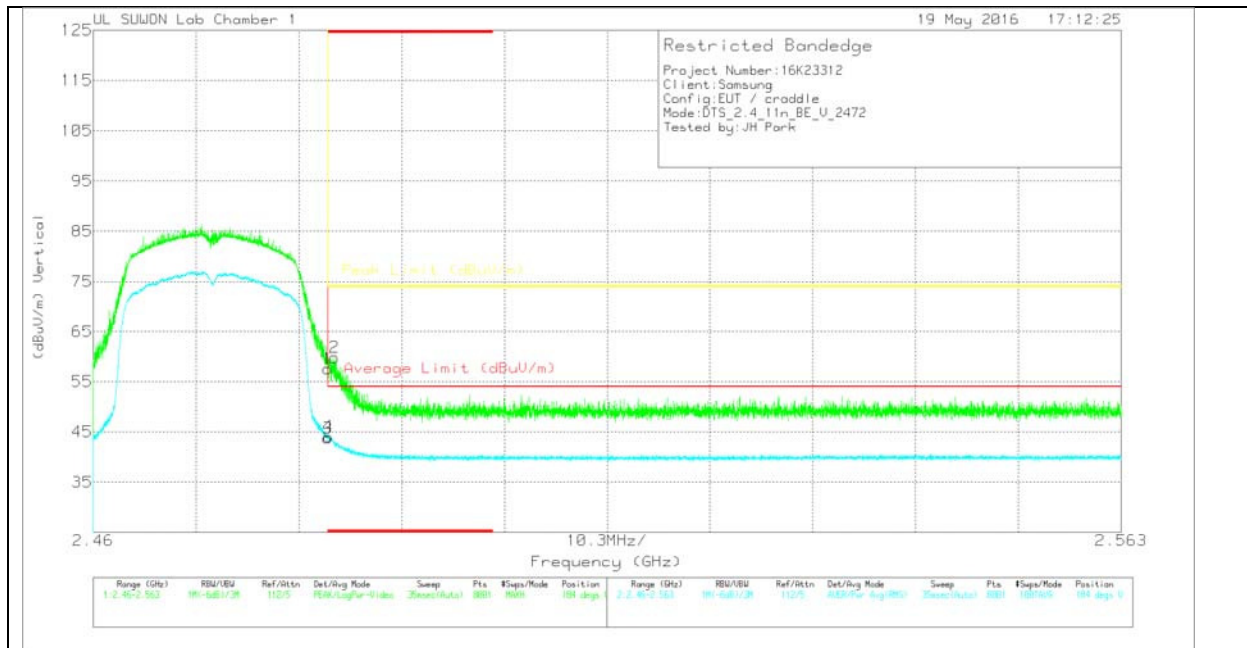
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 17)_150619	Path_2	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	62.69	Pk	32	-28.3	0	66.39	-	-	74	-7.61	21	101	H
2	* 2.484	64.63	Pk	32	-28.3	0	68.33	-	-	74	-5.67	21	101	H
3	* 2.484	46.33	RMS	32	-28.3	.32	50.35	54	-3.65	-	-	21	101	H
4	* 2.484	46.88	RMS	32	-28.3	.32	50.9	54	-3.1	-	-	21	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

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 17)_150619	Path_2	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	53.89	Pk	32	-28.3	0	57.59	-	-	74	-16.41	184	176	V
2	* 2.484	56.1	Pk	32	-28.3	0	59.8	-	-	74	-14.2	184	176	V
3	* 2.484	39.77	RMS	32	-28.3	.32	43.79	54	-10.21	-	-	184	176	V
4	* 2.484	40.05	RMS	32	-28.3	.32	44.07	54	-9.93	-	-	184	176	V

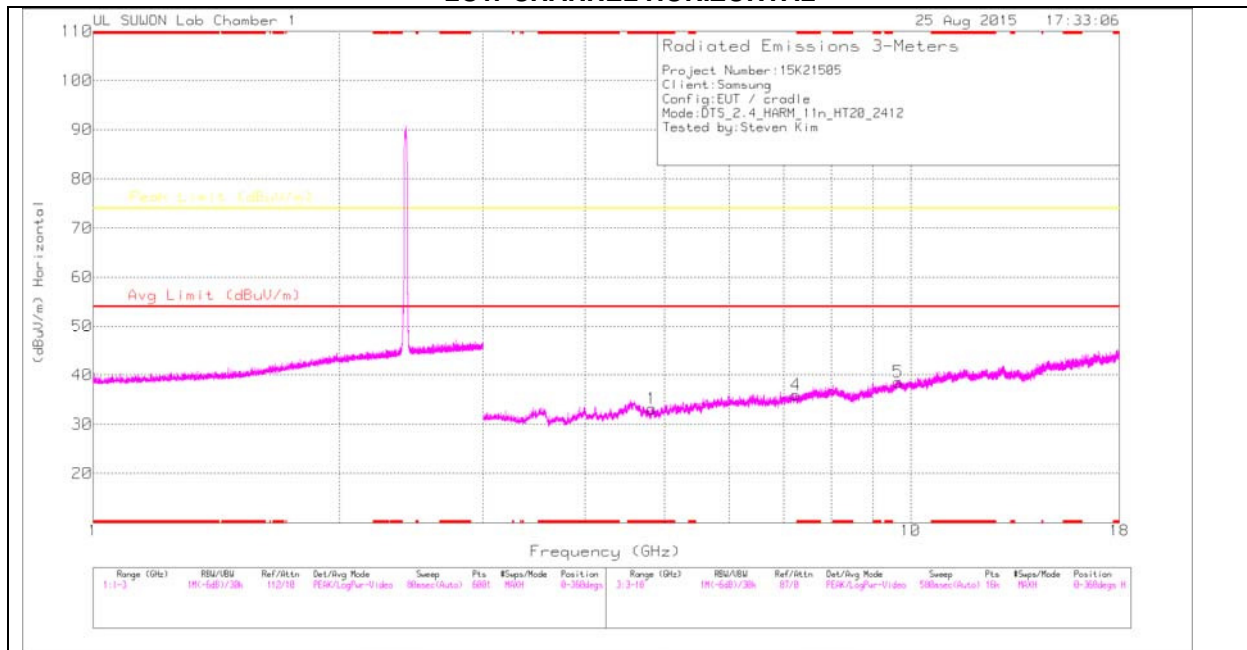
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

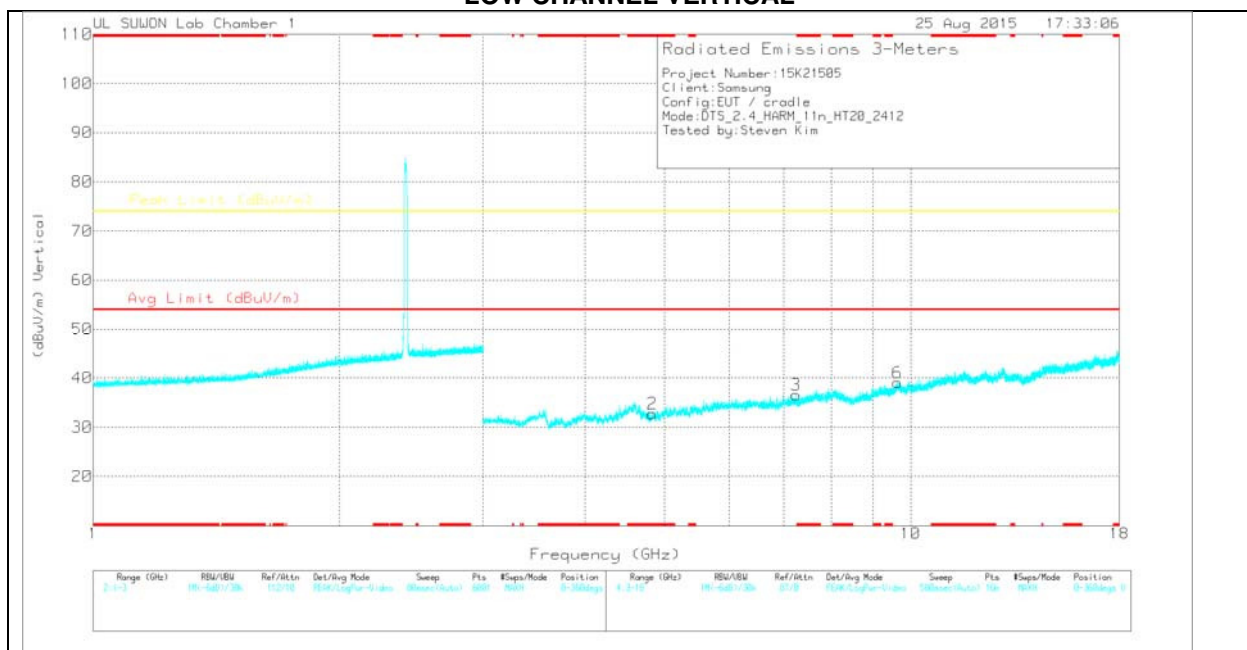
RMS - RMS detection

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

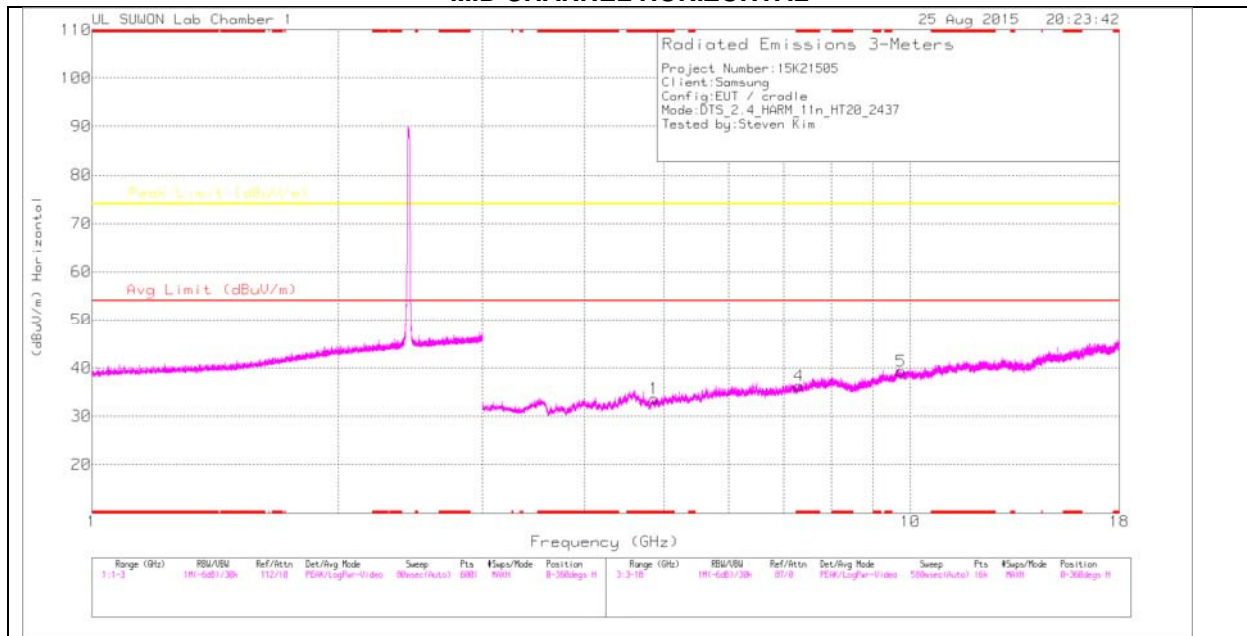
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016872 4)_150619	Path_3	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.825	28.66	PK	34	-29.5	0	33.16	-	-	74	-40.84	0-360	102	H
4	7.239	25.77	PK	35.7	-25.5	0	35.97	-	-	74	-38.03	0-360	200	H
5	9.649	22.29	PK	37.1	-20.8	0	38.59	-	-	74	-35.41	0-360	200	H
2	* 4.83	28.23	PK	34	-29.5	0	32.73	-	-	74	-41.27	0-360	100	V
3	7.237	26.39	PK	35.7	-25.5	0	36.59	-	-	74	-37.41	0-360	200	V
6	9.641	22.84	PK	37	-20.8	0	39.04	-	-	74	-34.96	0-360	200	V

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

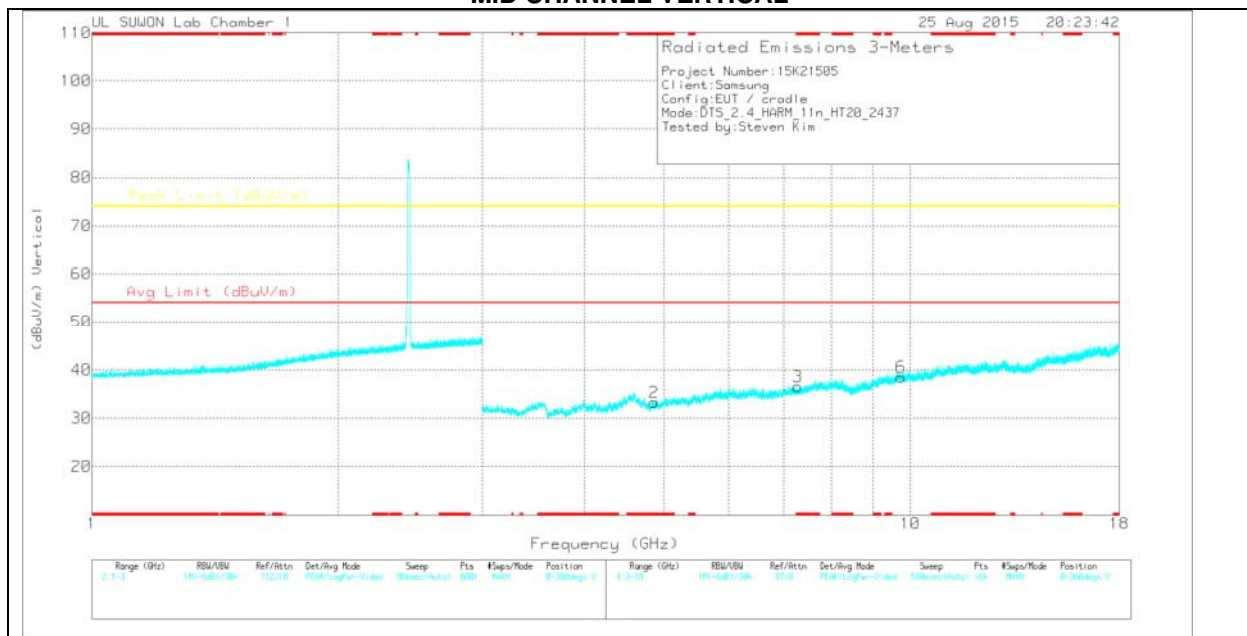
PK – Peak detector

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

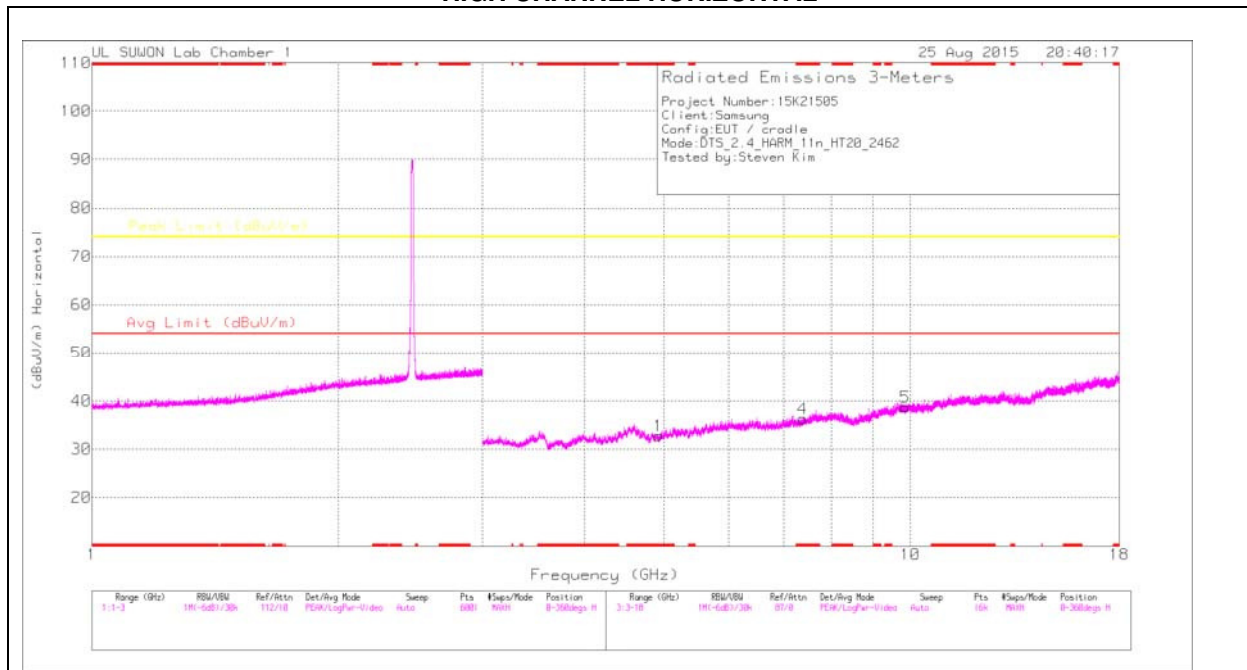
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016872 4)_150619	Path_3	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.866	28.85	PK	34	-29.2	0	33.65	-	-	74	-40.35	0-360	200	H
4	* 7.306	26.3	PK	35.7	-25.7	0	36.3	-	-	74	-37.7	0-360	200	H
5	9.74	23.95	PK	37.2	-21.8	0	39.35	-	-	74	-34.65	0-360	200	H
2	* 4.866	28.54	PK	34	-29.2	0	33.34	-	-	74	-40.66	0-360	100	V
3	* 7.29	26.56	PK	35.7	-25.7	0	36.56	-	-	74	-37.44	0-360	200	V
6	9.736	23.03	PK	37.2	-21.7	0	38.53	-	-	74	-35.47	0-360	200	V

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

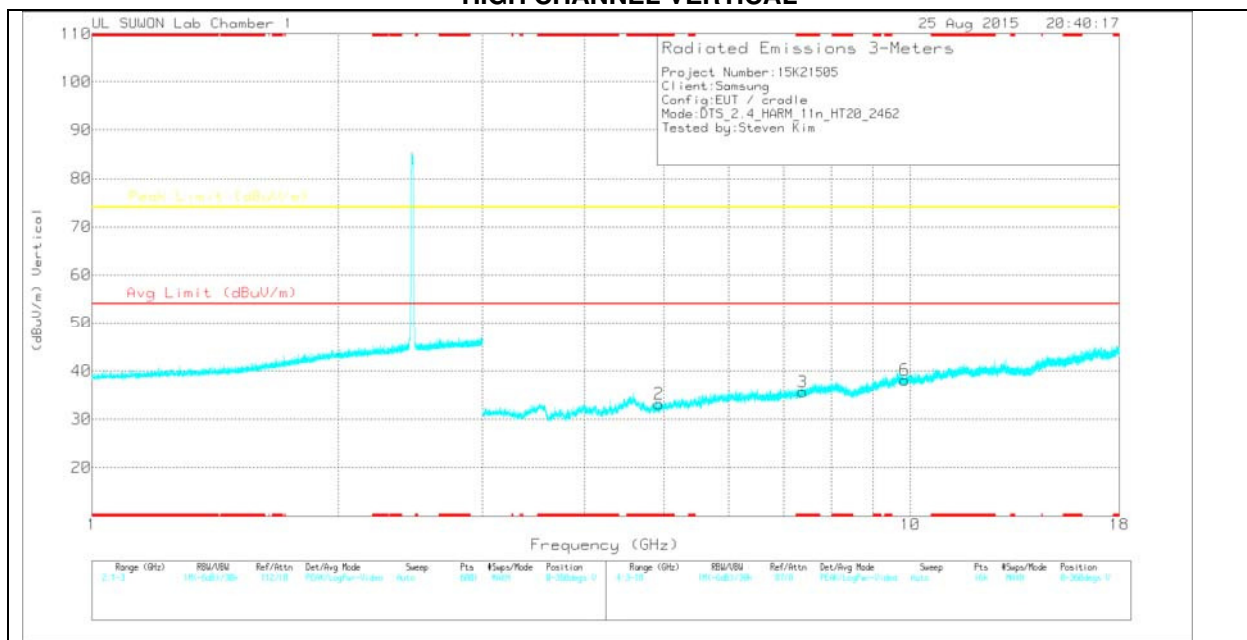
PK – Peak detector

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

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



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

HIGH CHANNEL DATA

Trace Markers

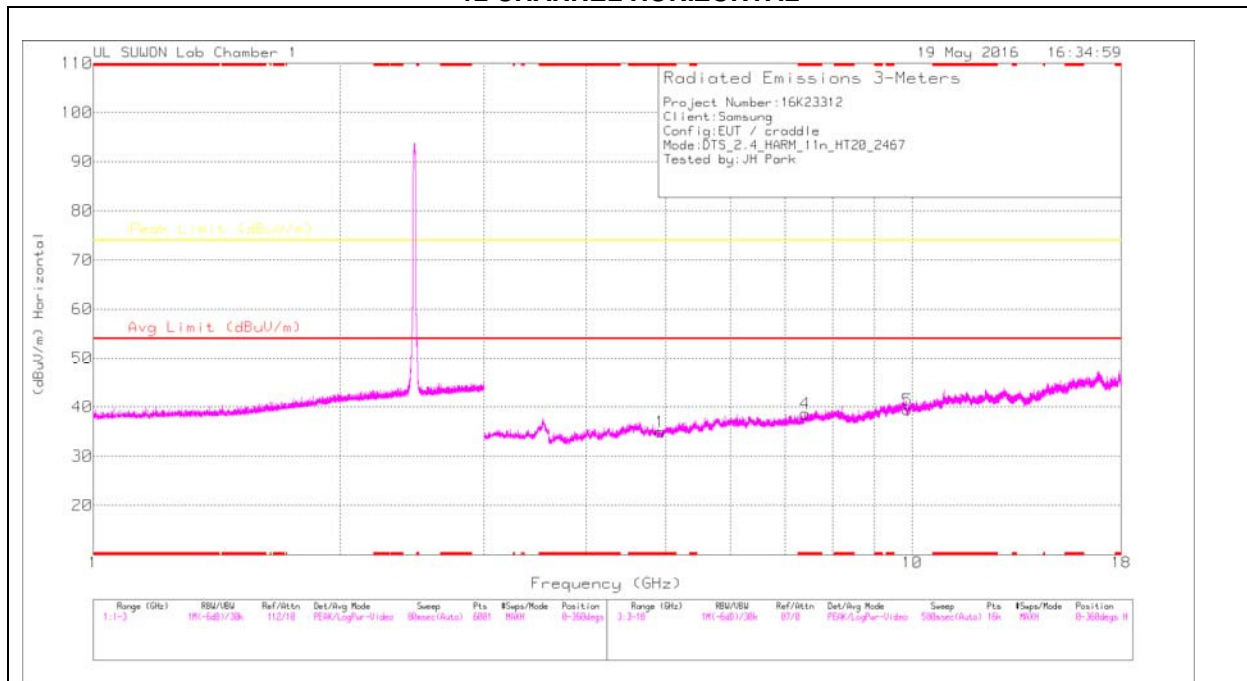
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016872 4)_150619	Path_3	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.921	27.92	PK	34	-29.1	0	32.82	-	-	74	-41.18	0-360	100	H
4	* 7.381	25.57	PK	35.8	-25.1	0	36.27	-	-	74	-37.73	0-360	100	H
5	9.853	22.9	PK	37.3	-21.5	0	38.7	-	-	74	-35.3	0-360	100	H
2	* 4.929	28.22	PK	34	-29	0	33.22	-	-	74	-40.78	0-360	200	V
3	* 7.386	25.04	PK	35.8	-25.1	0	35.74	-	-	74	-38.26	0-360	200	V
6	9.846	22.45	PK	37.3	-21.6	0	38.15	-	-	74	-35.85	0-360	200	V

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

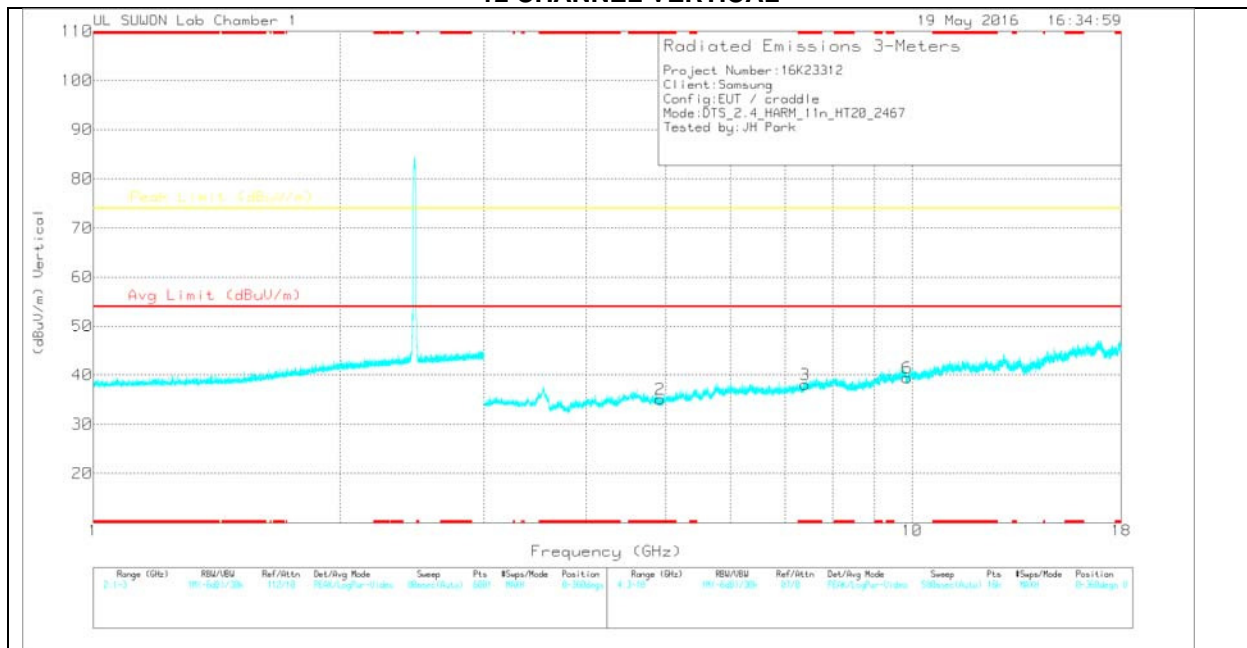
PK – Peak detector

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

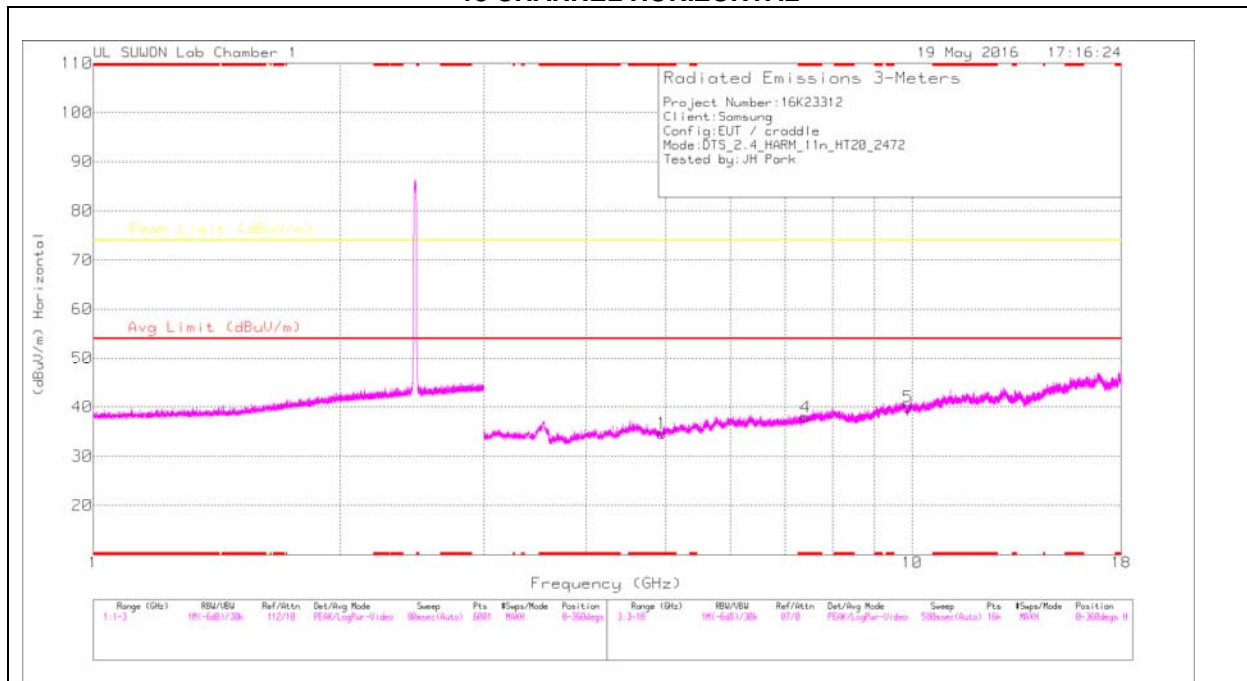
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016871 7)_150619	Path_3	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.922	34.92	PK	34	-34	0	34.92	-	-	74	-39.08	0-360	200	H
4	* 7.402	33.44	PK	35.8	-30.6	0	38.64	-	-	74	-35.36	0-360	100	H
5	9.864	30.01	PK	37.3	-27.9	0	39.41	-	-	74	-34.59	0-360	100	H
2	* 4.921	35.08	PK	34	-34	0	35.08	-	-	74	-38.92	0-360	200	V
3	* 7.4	32.86	PK	35.8	-30.6	0	38.06	-	-	74	-35.94	0-360	200	V
6	9.863	29.93	PK	37.3	-27.8	0	39.43	-	-	74	-34.57	0-360	100	V

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

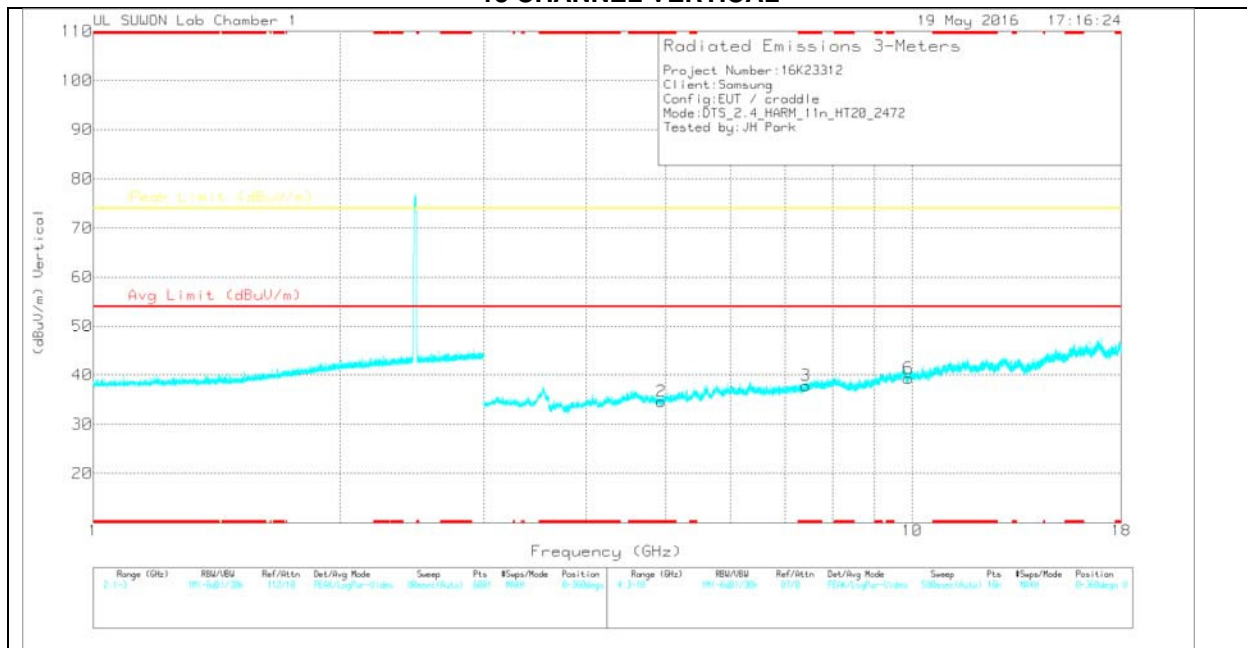
PK – Peak detector

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

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(0016871 7)_150619	Path_3	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	* 4.947	34.6	PK	34	-34	0	34.6	-	-	74	-39.4	0-360	100	H
4	* 7.412	32.83	PK	35.8	-30.7	0	37.93	-	-	74	-36.07	0-360	100	H
5	9.889	30.49	PK	37.3	-27.8	0	39.99	-	-	74	-34.01	0-360	200	H
2	* 4.94	34.63	PK	34	-34	0	34.63	-	-	74	-39.37	0-360	100	V
3	* 7.416	32.77	PK	35.8	-30.7	0	37.87	-	-	74	-36.13	0-360	200	V
6	9.895	29.63	PK	37.4	-27.7	0	39.33	-	-	74	-34.67	0-360	100	V

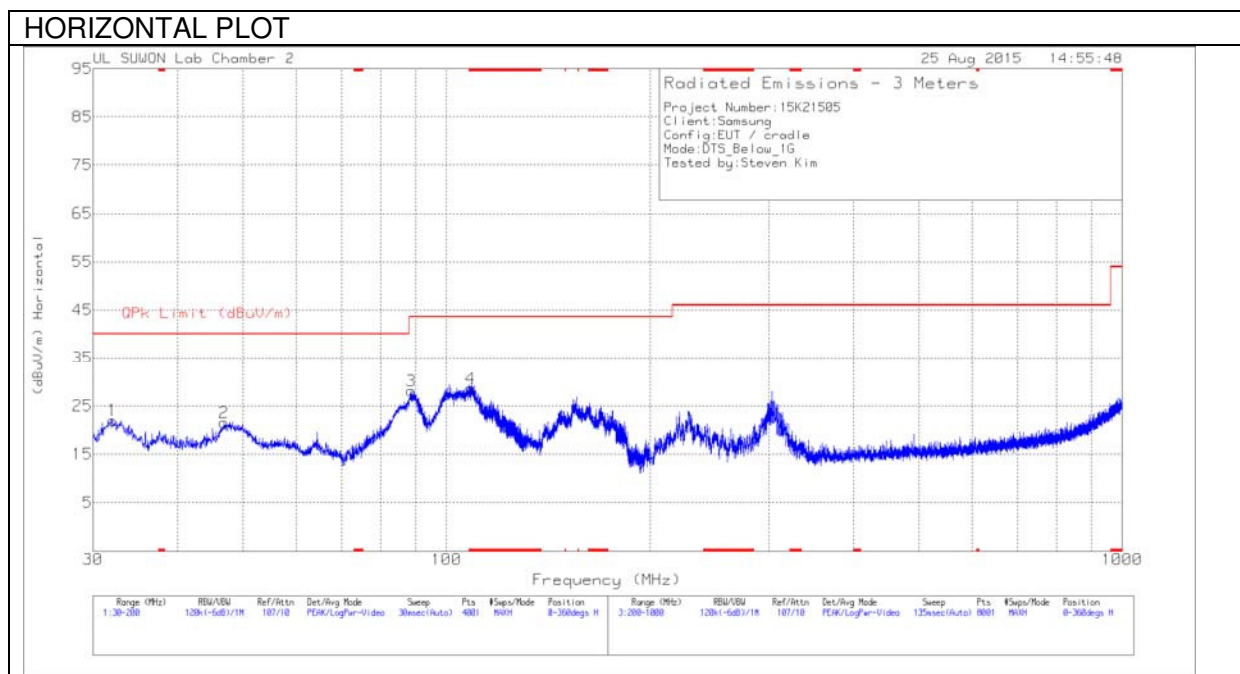
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK – Peak detector

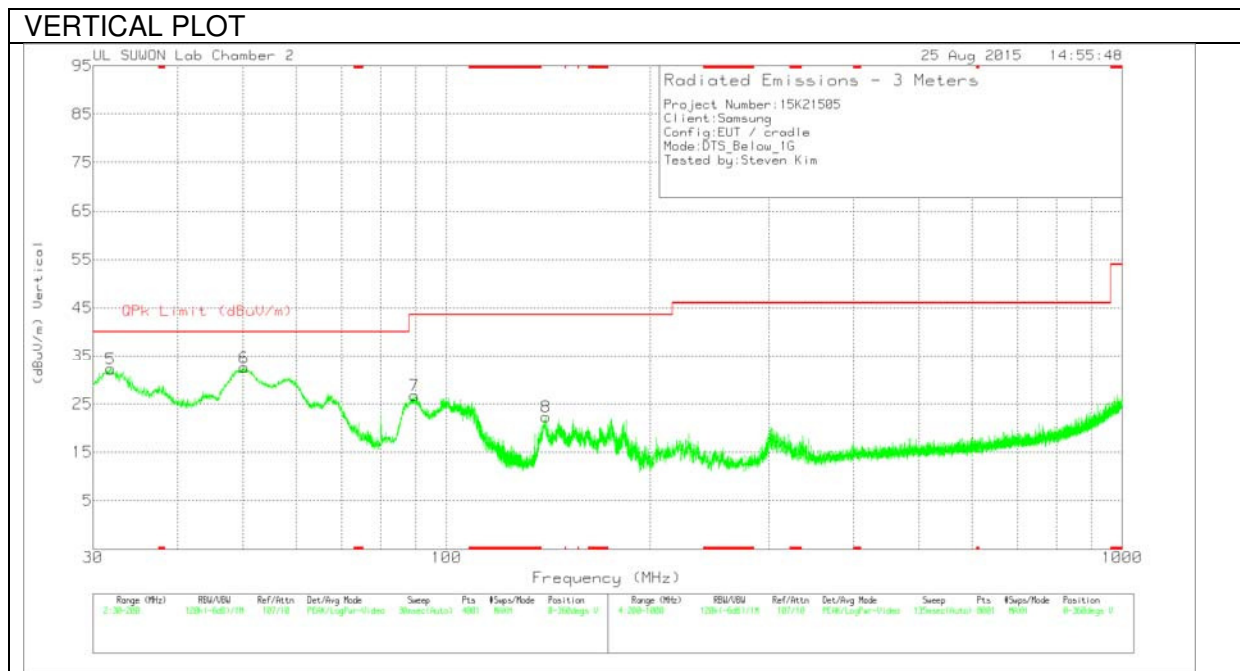
Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

11.3. 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	VULB9163-749	Below_1G	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	32.0825	42.31	Pk	10.5	-30.8	22.01	40	-17.99	0-360	300	H
2	46.8725	38.41	Pk	14	-30.8	21.61	40	-18.39	0-360	300	H
3	88.65	49.46	Pk	9.3	-30.6	28.16	43.52	-15.36	0-360	300	H
4	* 108.6675	48.27	Pk	10.9	-30.5	28.67	43.52	-14.85	0-360	300	H
5	31.87	52.66	Pk	10.4	-30.8	32.26	40	-7.74	0-360	101	V
6	50.1875	49.13	Pk	14.1	-30.7	32.53	40	-7.47	0-360	101	V
7	89.67	47.88	Pk	9.5	-30.6	26.78	43.52	-16.74	0-360	101	V
8	140.3725	44.69	Pk	8	-30.4	22.29	43.52	-21.23	0-360	101	V

Pk - Peak detector

12. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)
RSS-Gen 8.8

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

* Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10 2009.

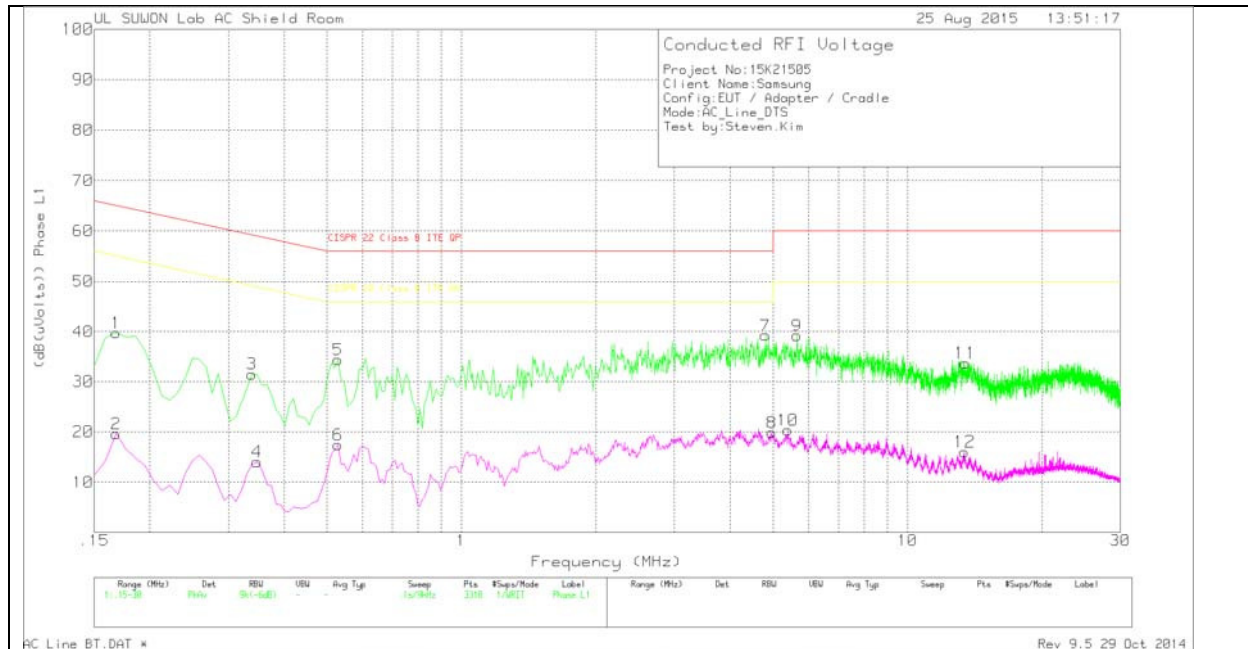
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

WORST EMISSIONS

LINE 1 PLOT



LINE 1 RESULTS

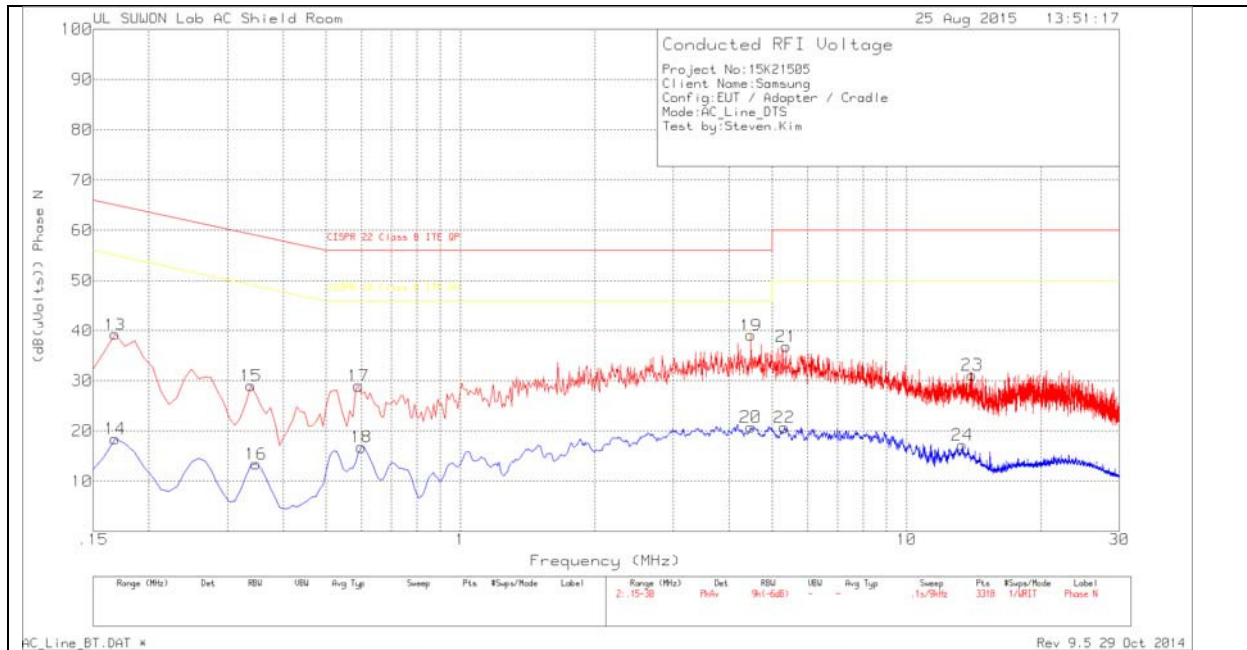
Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101837_w ith ex- cord_L1	CE Shield Room	Corrected Reading (dBuV)	CISPR 22 Class B ITE QP	Margin (dB)	CISPR 22 Class B ITE AV	Margin (dB)
1	.168	29.57	Pk	10.2	0	39.77	65.06	-25.29	-	-
2	.168	9.41	Av	10.2	0	19.61	-	-	55.06	-35.45
3	.339	21.5	Pk	10	0	31.5	59.23	-27.73	-	-
4	.348	4.07	Av	10	0	14.07	-	-	49.01	-34.94
5	.528	24.28	Pk	10.1	0	34.38	56	-21.62	-	-
6	.528	7.32	Av	10.1	0	17.42	-	-	46	-28.58
7	4.803	29.32	Pk	9.8	.1	39.22	56	-16.78	-	-
8	4.965	9.96	Av	9.8	.1	19.86	-	-	46	-26.14
9	5.649	29.3	Pk	9.8	.1	39.2	60	-20.8	-	-
10	5.388	10.45	Av	9.8	.1	20.35	-	-	50	-29.65
11	13.479	23.37	Pk	10.1	.2	33.67	60	-26.33	-	-
12	13.425	5.72	Av	10.1	.2	16.02	-	-	50	-33.98

Pk - Peak detector

Av - Average detection

LINE 2 PLOT



LINE 2 RESULTS

Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101837_w ith ex-cord_N	CE Shield Room	Corrected Reading (dB(uVolts))	CISPR 22 Class B ITE QP	Margin (dB)	CISPR 22 Class B ITE AV	Margin (dB)
13	.168	29.14	Pk	10.1	0	39.24	65.06	-25.82	-	-
14	.168	8.34	Av	10.1	0	18.44	-	-	55.06	-36.62
15	.339	18.98	Pk	10	0	28.98	59.23	-30.25	-	-
16	.348	3.4	Av	10	0	13.4	-	-	49.01	-35.61
17	.591	18.86	Pk	10.1	0	28.96	56	-27.04	-	-
18	.6	6.7	Av	10.1	0	16.8	-	-	46	-29.2
19	4.479	29.17	Pk	9.8	.1	39.07	56	-16.93	-	-
20	4.47	10.86	Av	9.8	.1	20.76	-	-	46	-25.24
21	5.37	26.87	Pk	9.8	.1	36.77	60	-23.23	-	-
22	5.325	10.8	Av	9.8	.1	20.7	-	-	50	-29.3
23	14.037	20.63	Pk	10.3	.2	31.13	60	-28.87	-	-
24	13.344	6.82	Av	10.2	.2	17.22	-	-	50	-32.78

Pk - Peak detector

Av - Average detection