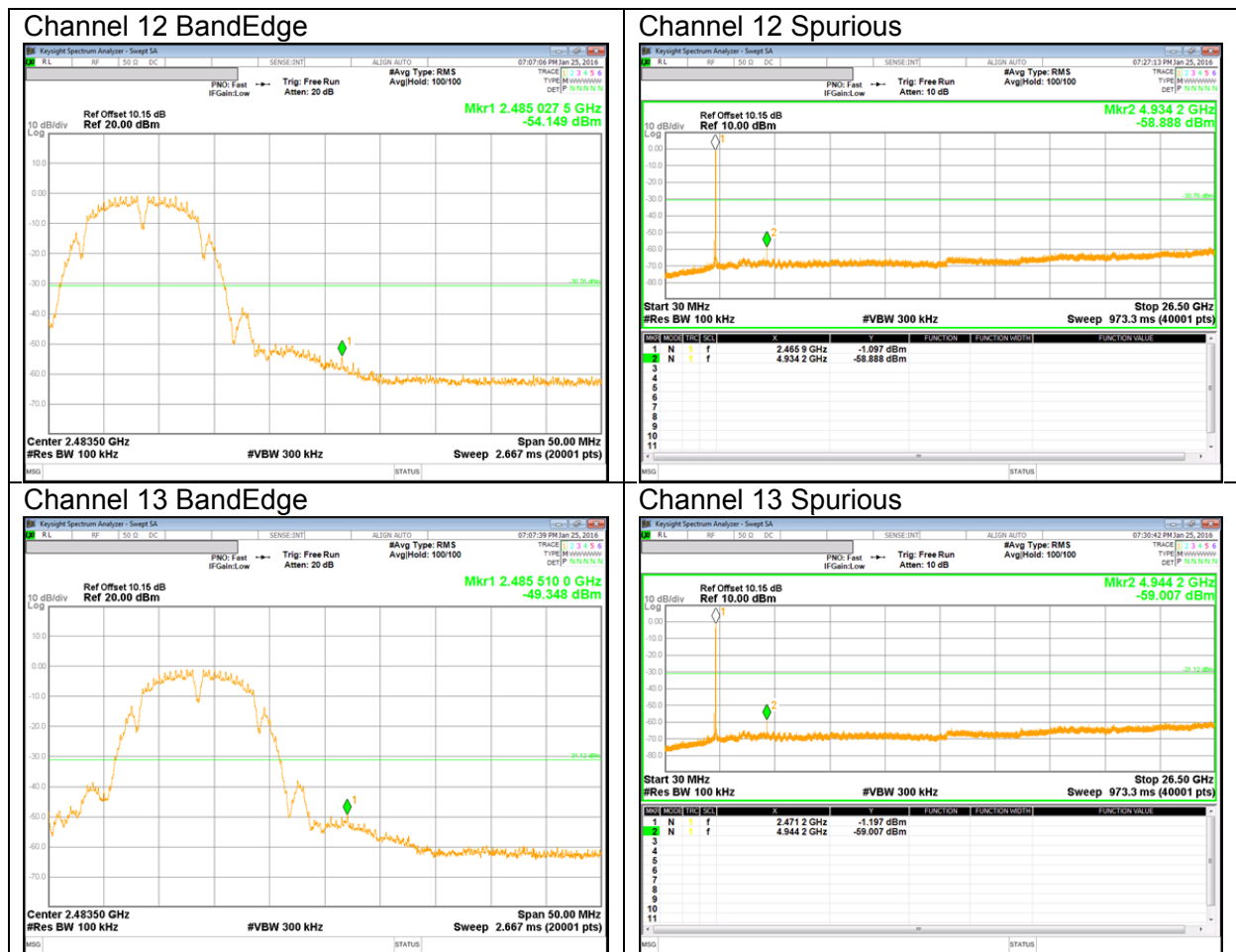
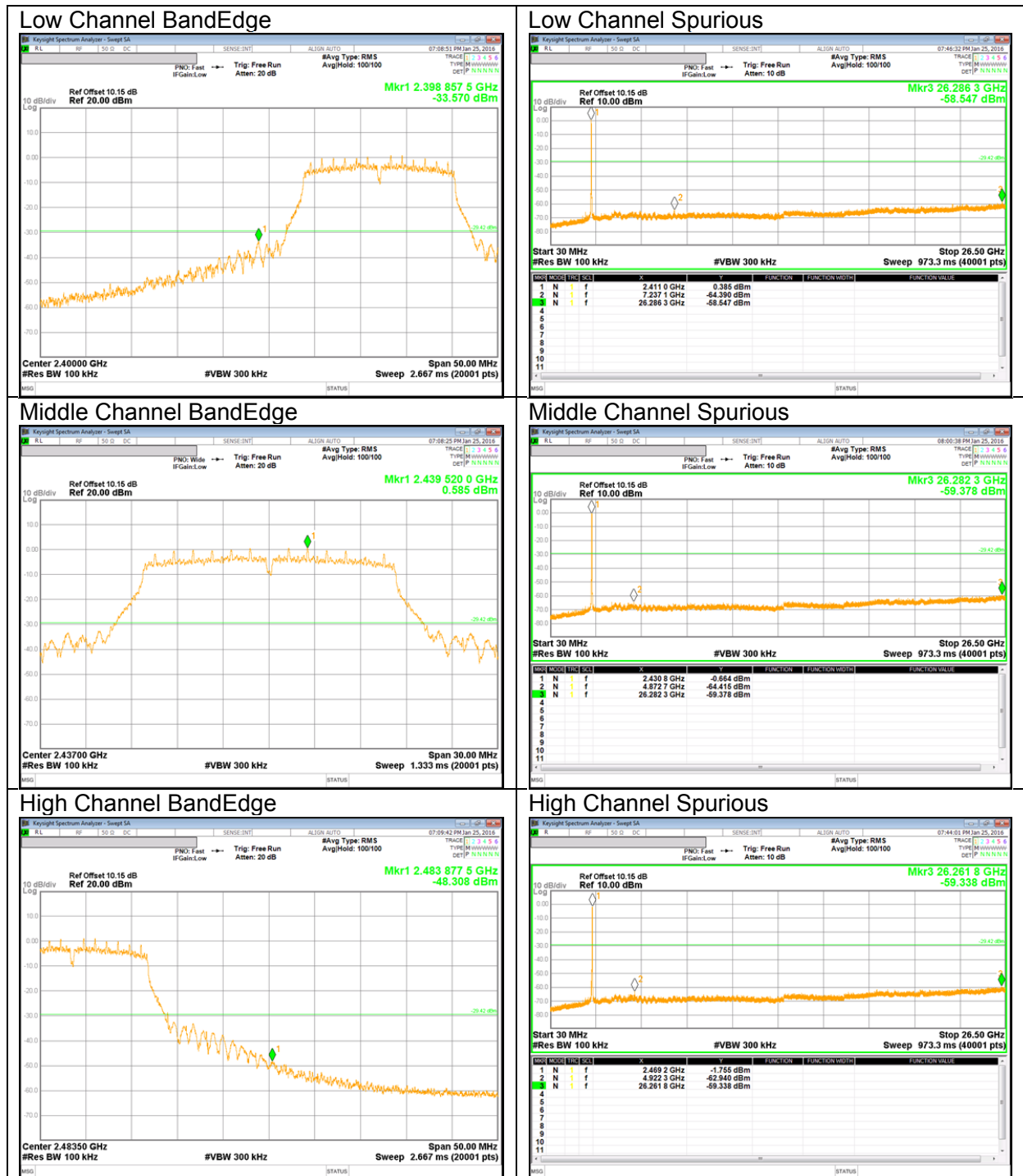
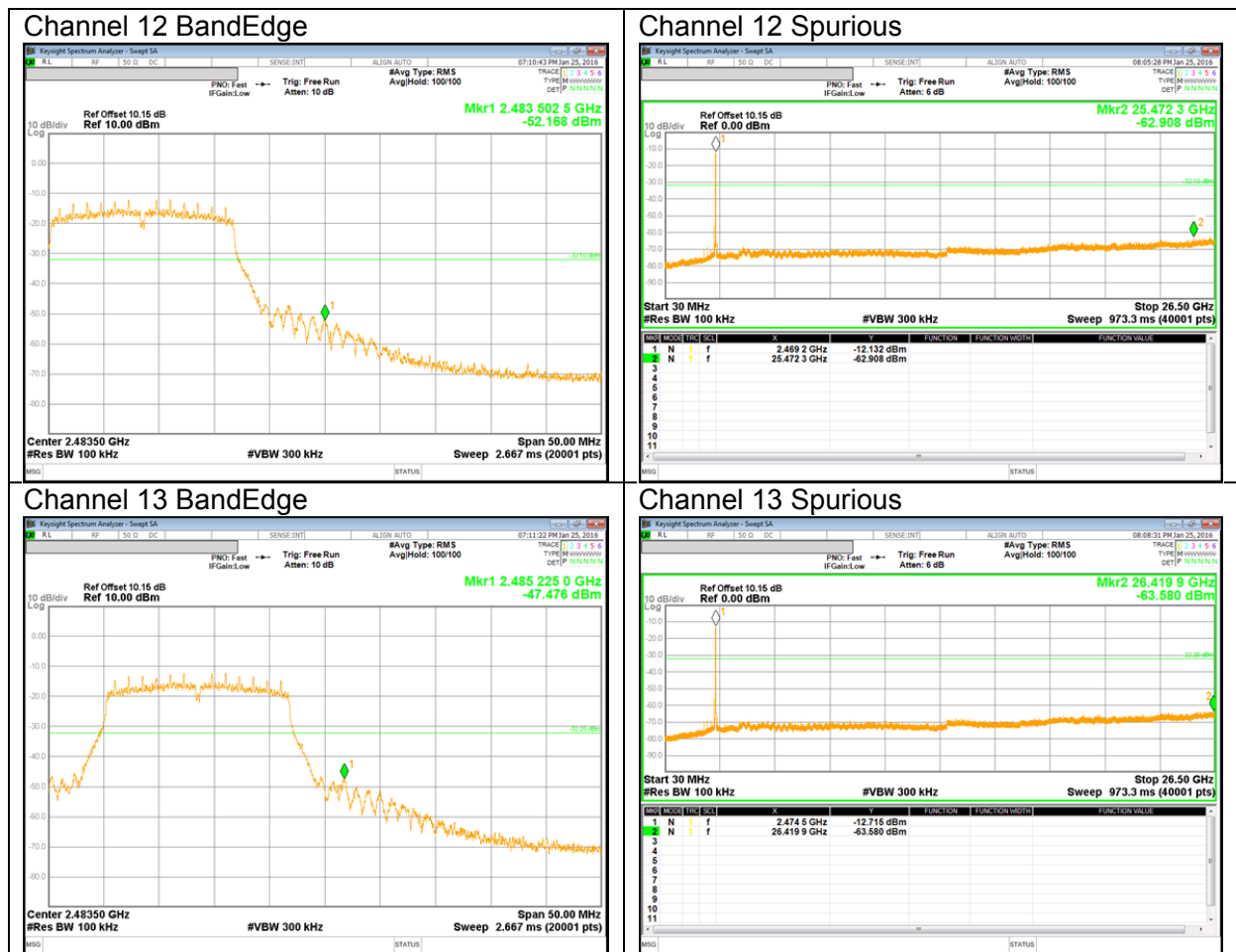
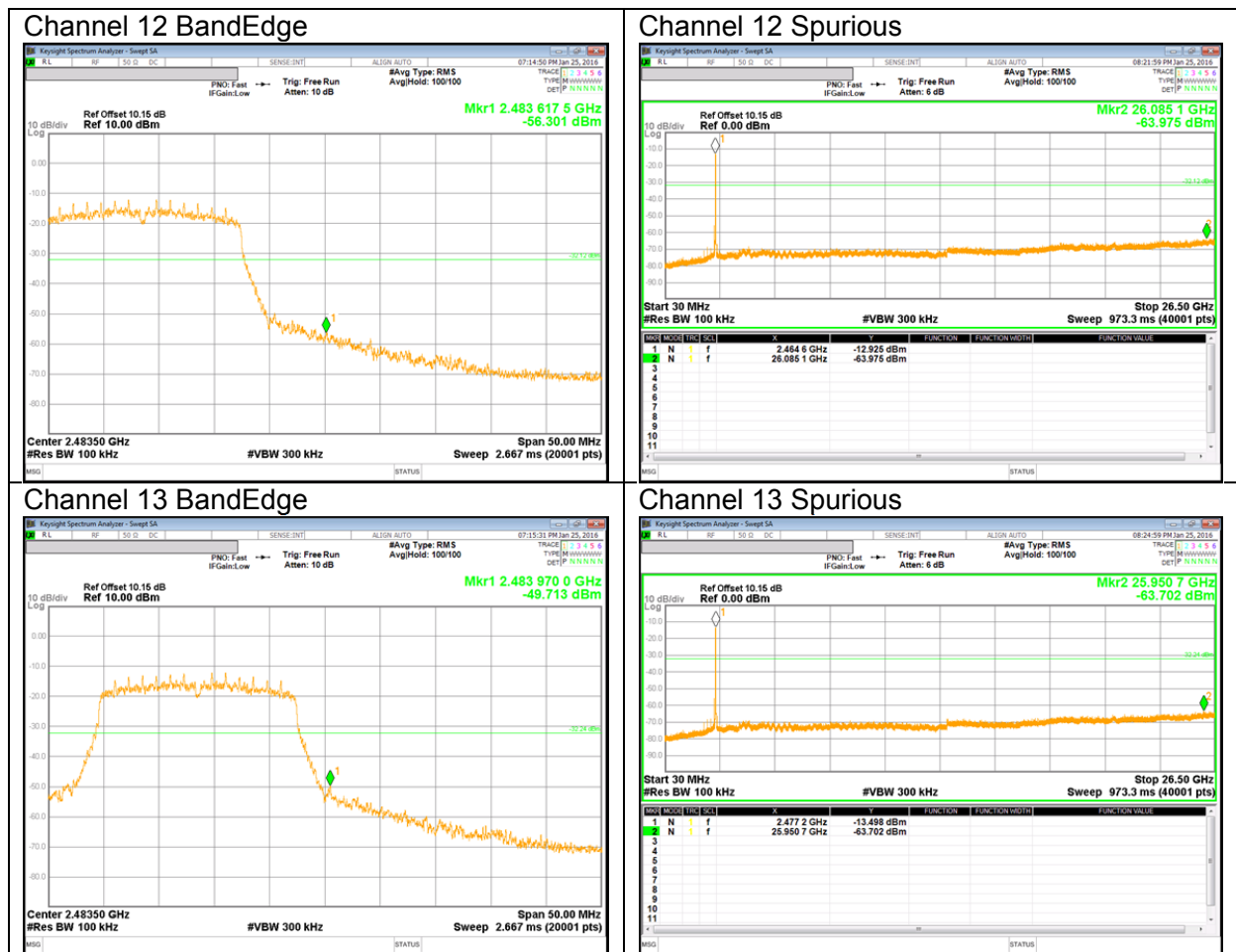




10.5.2. 802.11g MODE IN THE 2.4 GHz BAND







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 = 0.29dB; N mode = 0.34dB.

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.

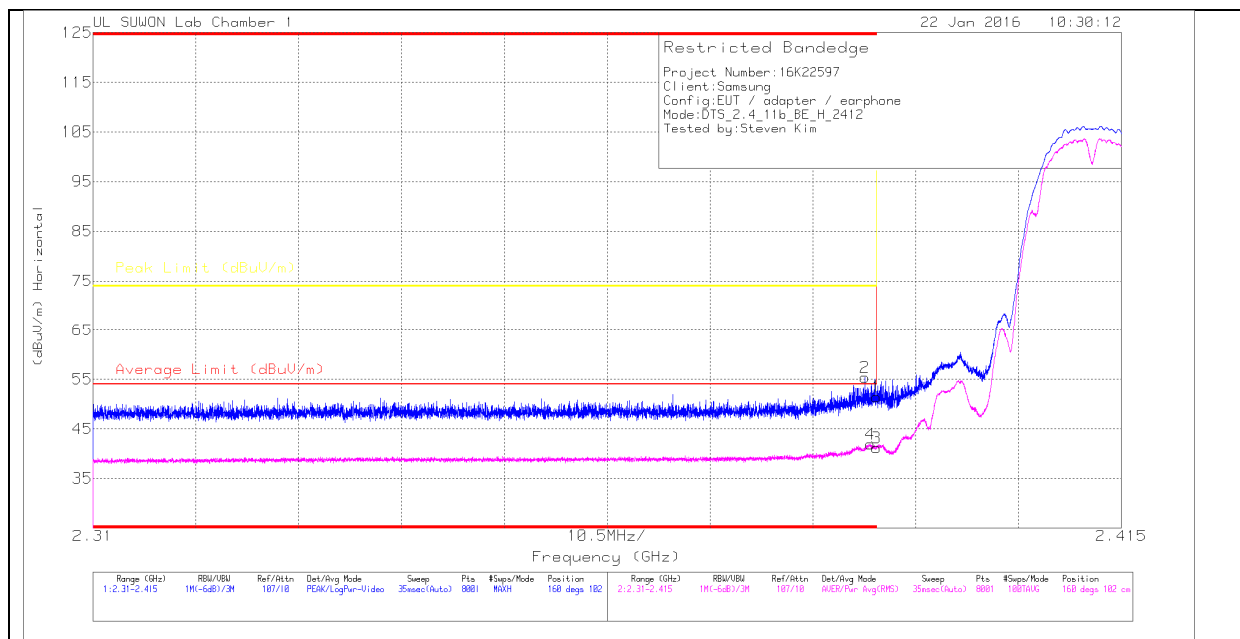
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

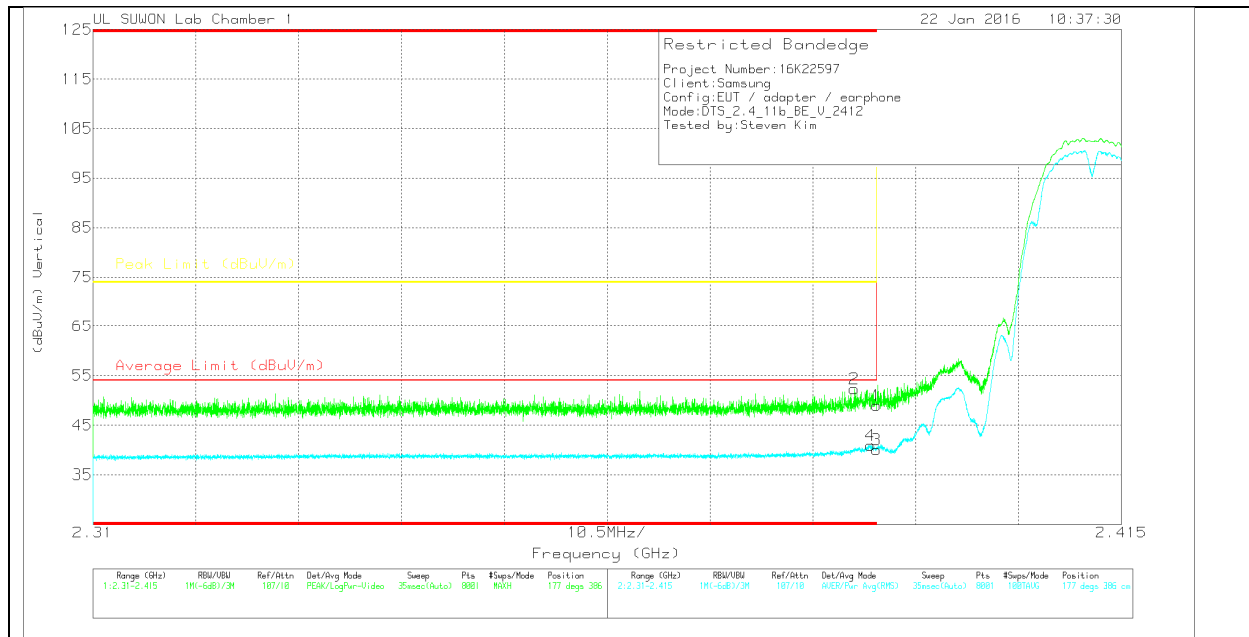
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 17)_150619	Path_2	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	48.7	Pk	31.8	-29	0	51.5	-	-	74	-22.5	160	102	H
2	* 2.389	52.58	Pk	31.8	-29	0	55.38	-	-	74	-18.62	160	102	H
3	* 2.39	38.36	RMS	31.8	-29	0	41.16	54	-12.84	-	-	160	102	H
4	* 2.389	39.12	RMS	31.8	-29	0	41.92	54	-12.08	-	-	160	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 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	* 2.39	46.21	Pk	31.8	-29	0	49.01	-	-	74	-24.99	177	386	V
2	* 2.388	49.45	Pk	31.8	-29	0	52.25	-	-	74	-21.75	177	386	V
3	* 2.39	37.26	RMS	31.8	-29	0	40.06	54	-13.94	-	-	177	386	V
4	* 2.389	38.18	RMS	31.8	-29	0	40.98	54	-13.02	-	-	177	386	V

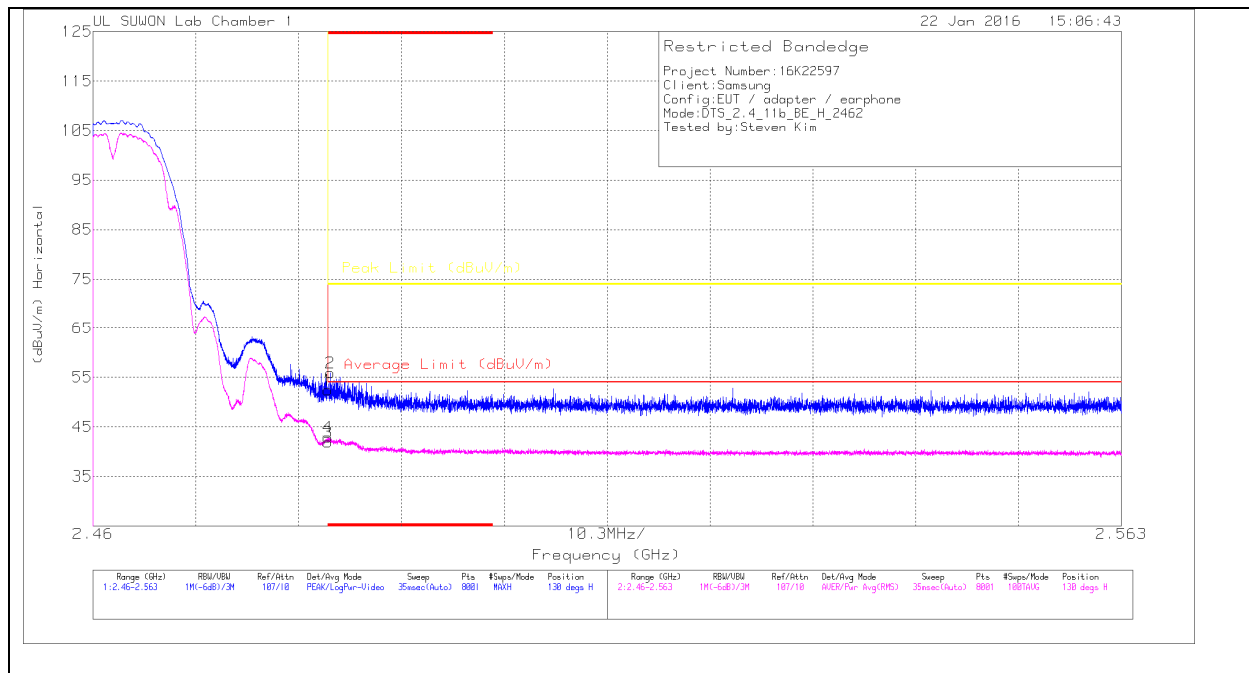
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

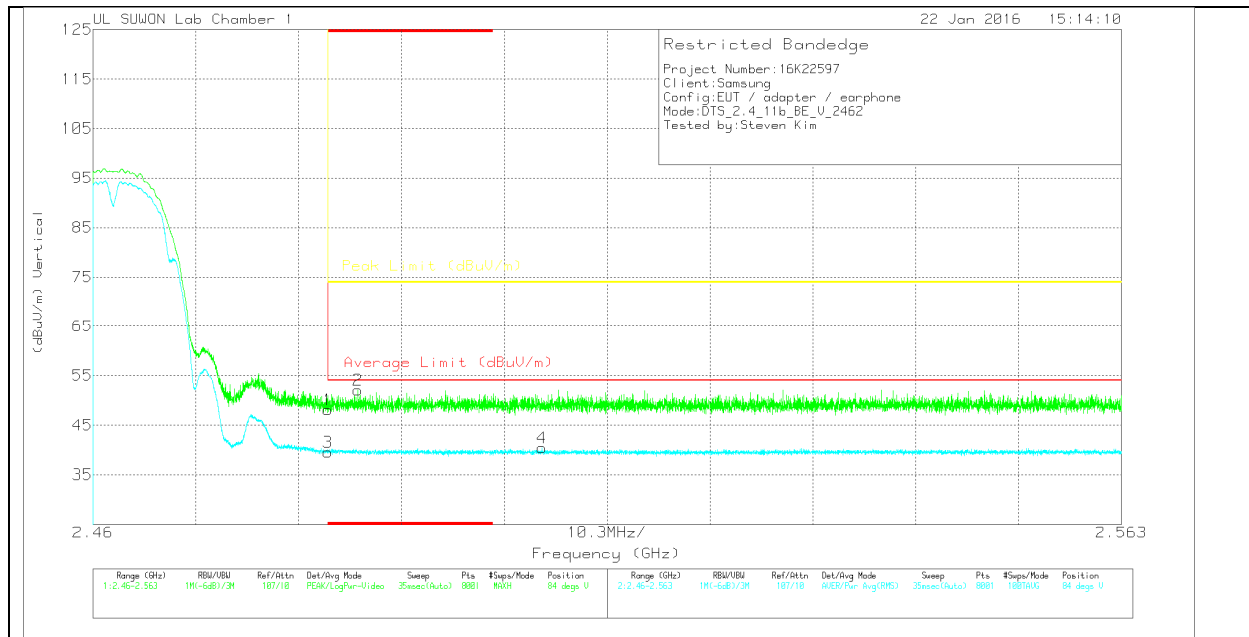
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 17)_150619	Path_2	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	48.7	Pk	32	-28.3	0	52.4	-	-	74	-21.6	130	105	H
2	* 2.484	52.15	Pk	32	-28.3	0	55.85	-	-	74	-18.15	130	105	H
3	* 2.484	38.2	RMS	32	-28.3	0	41.9	54	-12.1	-	-	130	105	H
4	* 2.484	39.19	RMS	32	-28.3	0	42.89	54	-11.11	-	-	130	105	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	44.35	Pk	32	-28.3	0	48.05	-	-	74	-25.95	84	107	V
2	* 2.487	48.34	Pk	32	-28.3	0	52.04	-	-	74	-21.96	84	107	V
3	* 2.484	35.87	RMS	32	-28.3	0	39.57	54	-14.43	-	-	84	107	V
4	2.505	36.72	RMS	32	-28.3	0	40.42	54	-13.58	-	-	84	107	V

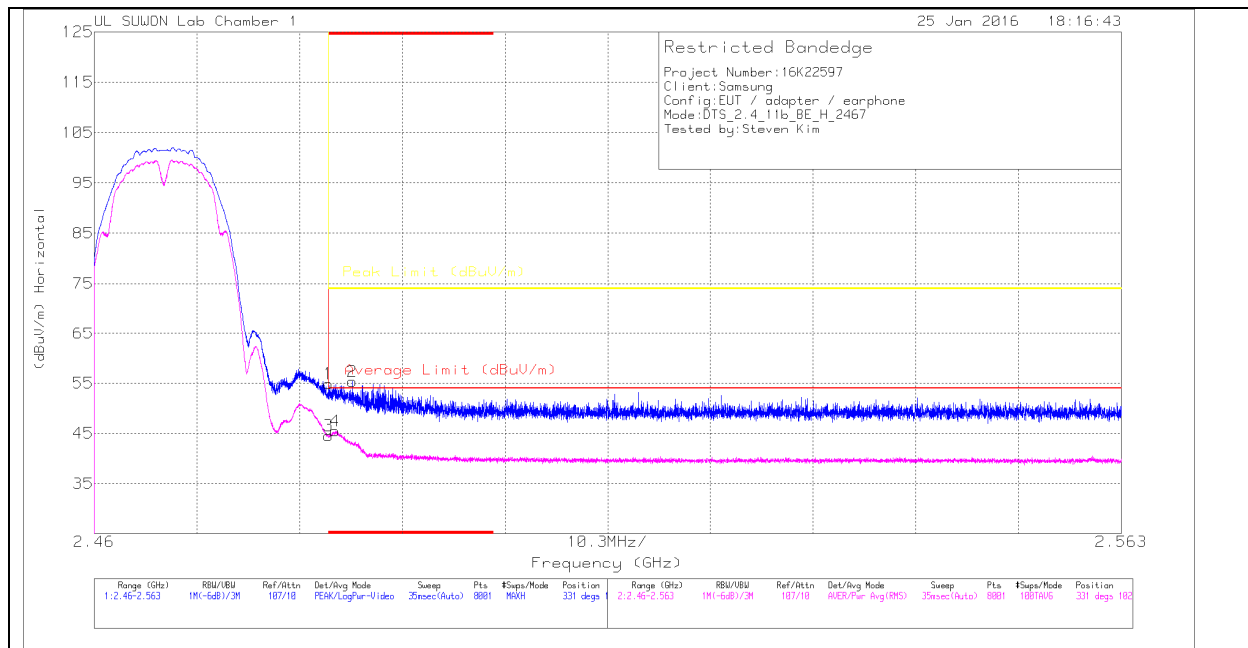
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (12 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

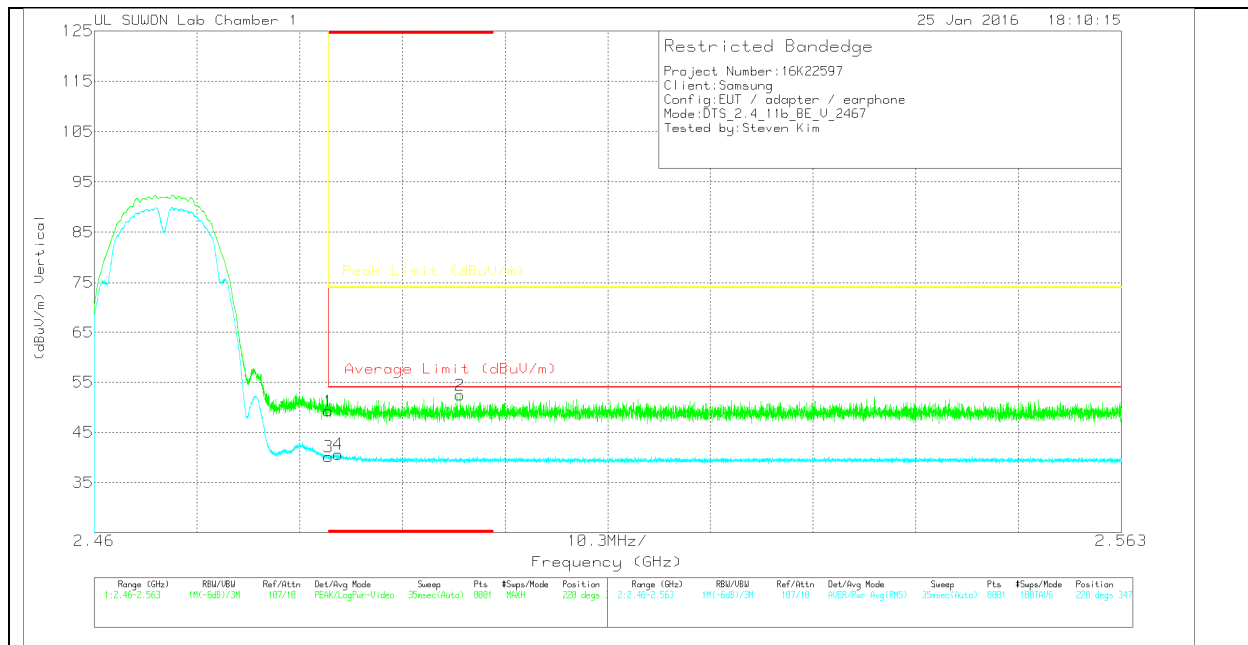
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 17_150619)	Path_2	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	51.21	Pk	32	-28.3	0	54.91	-	-	74	-19.09	331	102	H
2	* 2.486	51.64	Pk	32	-28.3	0	55.34	-	-	74	-18.66	331	102	H
3	* 2.484	40.87	RMS	32	-28.3	0	44.57	54	-9.43	-	-	331	102	H
4	* 2.484	41.77	RMS	32	-28.3	0	45.47	54	-8.53	-	-	331	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 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	45.57	PK	32	-28.3	0	49.27	-	-	74	-24.73	220	347	V
2	* 2.497	48.71	PK	32	-28.3	0	52.41	-	-	74	-21.59	220	347	V
3	* 2.484	36.48	RMS	32	-28.3	0	40.18	54	-13.82	-	-	220	347	V
4	* 2.484	36.95	RMS	32	-28.3	0	40.65	54	-13.35	-	-	220	347	V

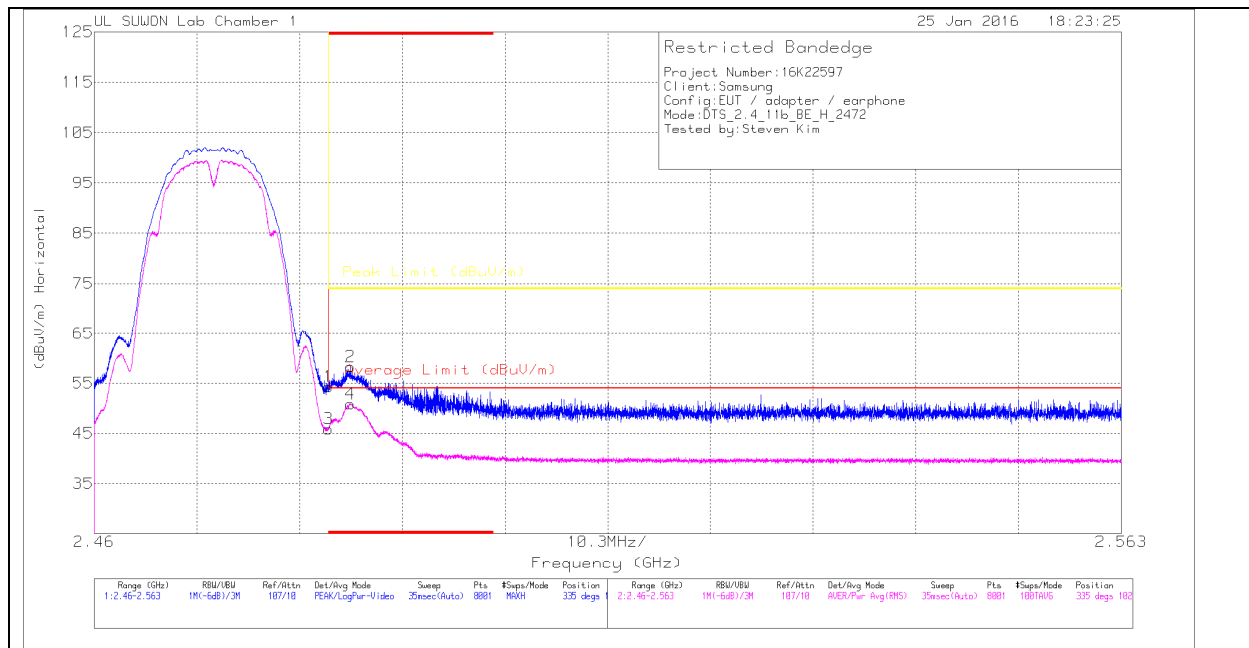
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (13 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

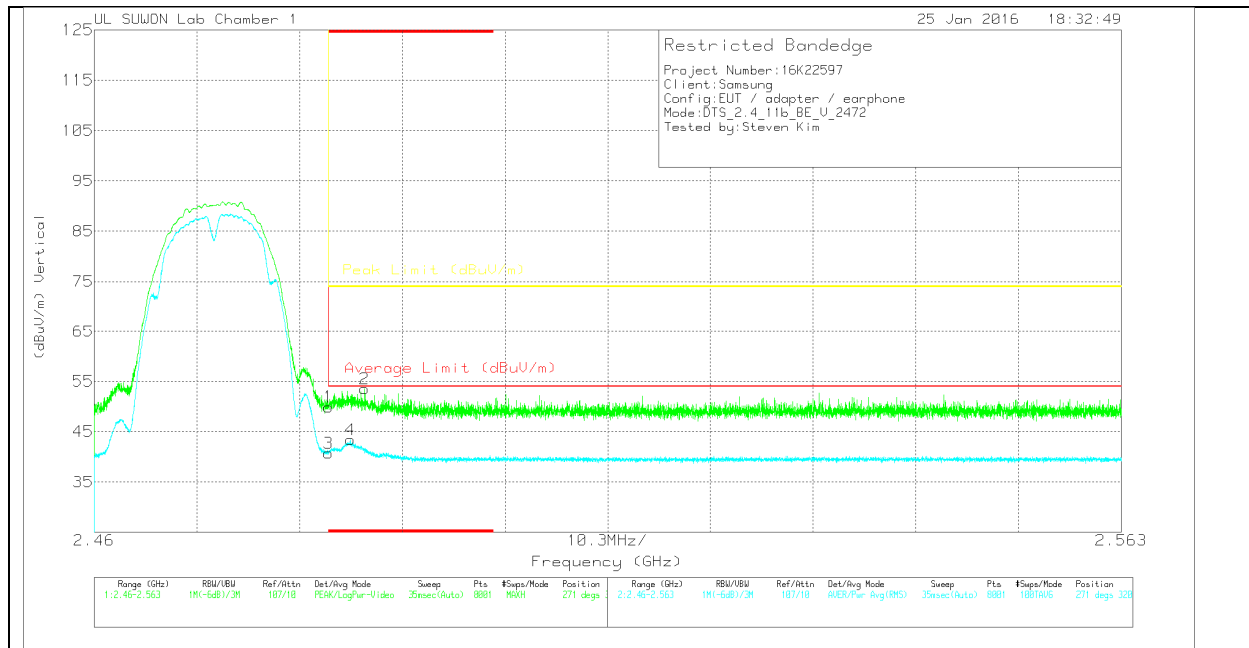
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 17_150619)	Path_2	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	50.61	Pk	32	-28.3	0	54.31	-	-	74	-19.69	335	102	H
2	* 2.486	54.6	Pk	32	-28.3	0	58.3	-	-	74	-15.7	335	102	H
3	* 2.484	42.21	RMS	32	-28.3	0	45.91	54	-8.09	-	-	335	102	H
4	* 2.486	47.2	RMS	32	-28.3	0	50.9	54	-3.1	-	-	335	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 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	46.22	PK	32	-28.3	0	49.92	-	-	74	-24.08	271	320	V
2	* 2.487	49.8	PK	32	-28.3	0	53.5	-	-	74	-20.5	271	320	V
3	* 2.484	37.04	RMS	32	-28.3	0	40.74	54	-13.26	-	-	271	320	V
4	* 2.486	39.69	RMS	32	-28.3	0	43.39	54	-10.61	-	-	271	320	V

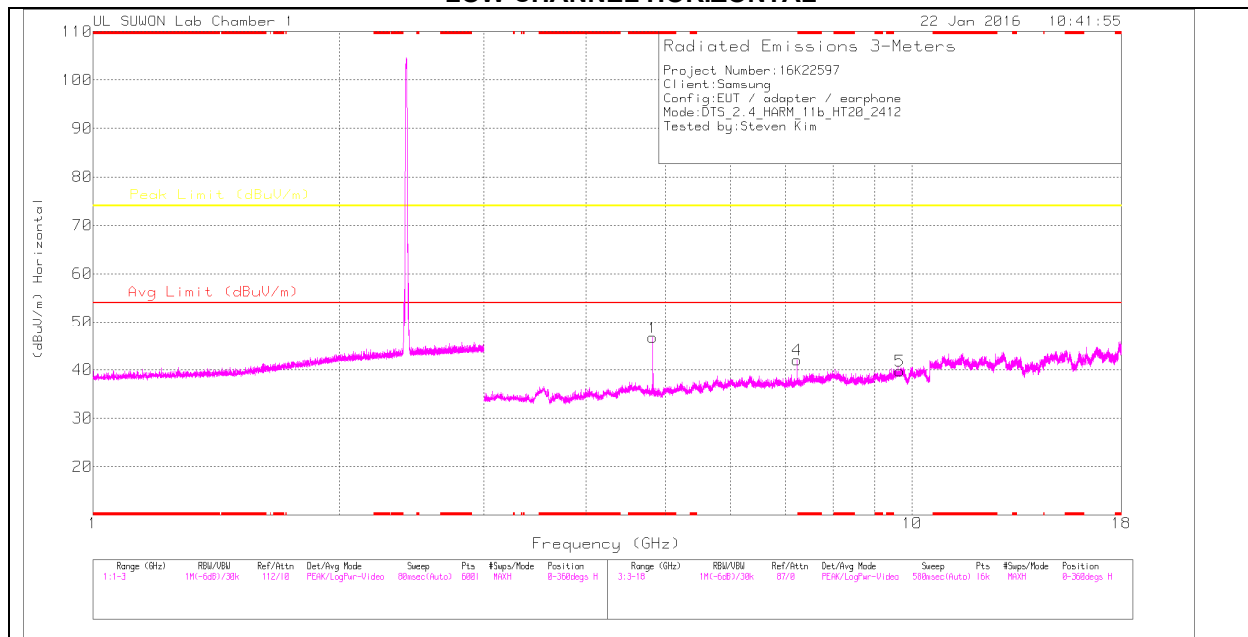
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

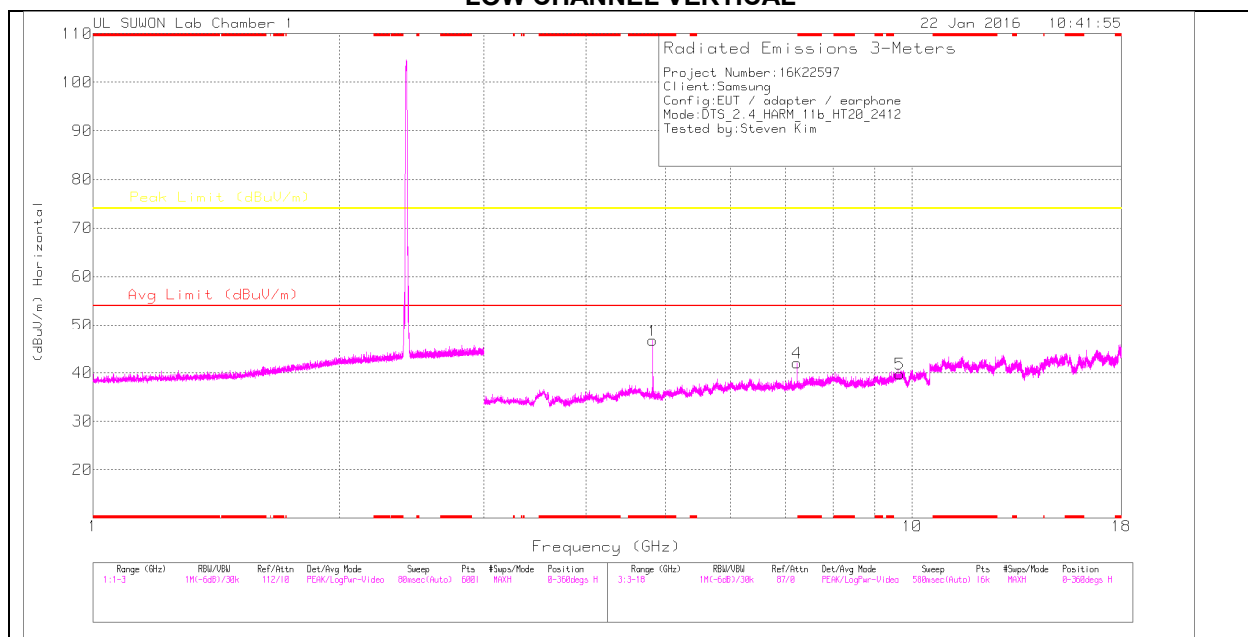
RMS - RMS detection

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(001687 17)_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	* 4.823	46.46	PK	34	-33.8	0	46.66	-	-	74	-27.34	0-360	100	H
4	7.235	37.2	PK	35.7	-30.9	0	42	-	-	74	-32	0-360	200	H
5	9.649	30.08	PK	37.1	-27.4	0	39.78	-	-	74	-34.22	0-360	100	H
2	* 4.823	49.3	PK	34	-33.8	0	49.5	-	-	74	-24.5	0-360	100	V
3	7.234	44.25	PK	35.7	-30.9	0	49.05	-	-	74	-24.95	0-360	100	V
6	9.648	30.85	PK	37.1	-27.4	0	40.55	-	-	74	-33.45	0-360	100	V

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

PK – Peak detector

Radiated Emissions

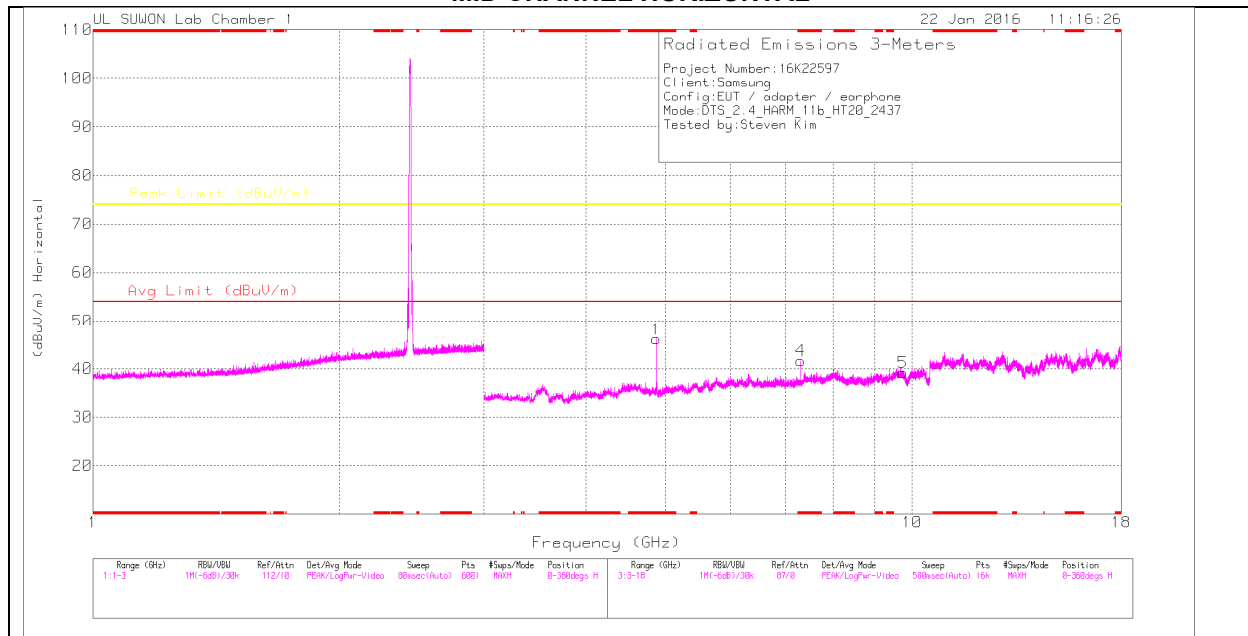
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_3	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.824	51.41	PK2	34	-33.8	0	51.61	-	-	74	-22.39	341	256	H
* 4.824	45.54	MAv1	34	-33.8	0	45.74	54	-8.26	-	-	341	256	H
* 4.824	53.57	PK2	34	-33.8	0	53.77	-	-	74	-20.23	212	259	V
* 4.824	48.8	MAv1	34	-33.8	0	49	54	-5	-	-	212	259	V
7.237	51.64	PK2	35.7	-30.9	0	56.44	-	-	74	-17.56	91	100	V
7.237	49.96	PK2	35.7	-30.9	0	54.76	-	-	74	-19.24	156	350	H

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

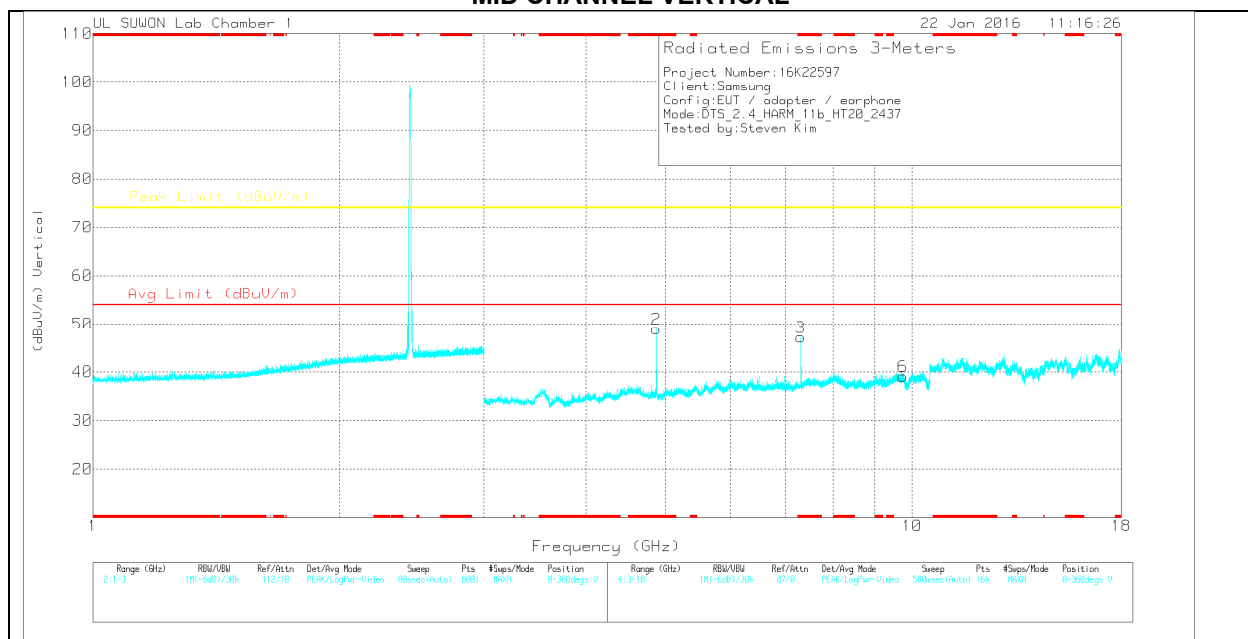
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



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

MID CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 17)_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	* 4.874	46.13	PK	34	-34	0	46.13	-	-	74	-27.87	0-360	100	H
4	* 7.313	36.79	PK	35.8	-30.9	0	41.69	-	-	74	-32.31	0-360	200	H
5	9.744	28.94	PK	37.2	-26.9	0	39.24	-	-	74	-34.76	0-360	200	H
2	* 4.874	48.94	PK	34	-34	0	48.94	-	-	74	-25.06	0-360	100	V
3	* 7.31	42.34	PK	35.7	-30.9	0	47.14	-	-	74	-26.86	0-360	100	V
6	9.743	28.86	PK	37.2	-27	0	39.06	-	-	74	-34.94	0-360	100	V

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

PK – Peak detector

Radiated Emissions

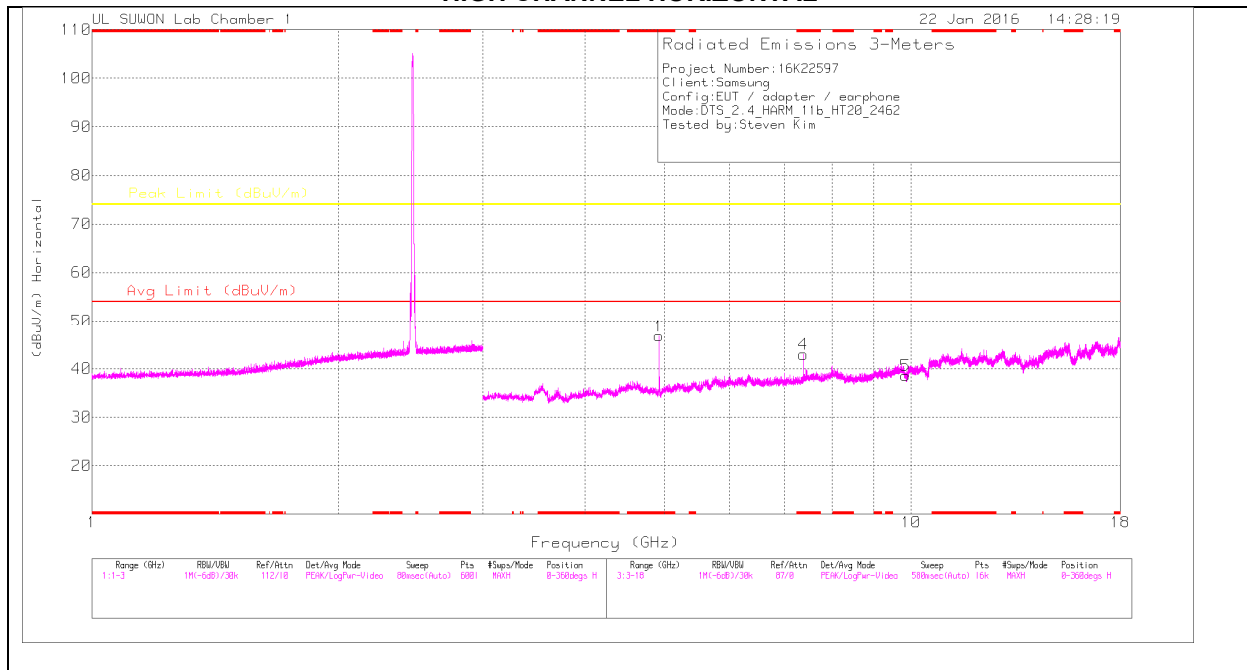
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001 68717)_1 50619	Path_3	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.874	51.45	PK2	34	-34	0	51.45	-	-	74	-22.55	343	349	H
* 4.874	45.92	MAv1	34	-34	0	45.92	54	-8.08	-	-	343	349	H
* 4.874	54.21	PK2	34	-34	0	54.21	-	-	74	-19.79	210	232	V
* 4.874	50.57	MAv1	34	-34	0	50.57	54	-3.43	-	-	210	232	V
* 7.313	46.82	PK2	35.8	-30.9	0	51.72	-	-	74	-22.28	112	342	V
* 7.312	37.23	MAv1	35.7	-30.9	0	42.03	54	-11.97	-	-	112	342	V
* 7.31	49.46	PK2	35.7	-30.9	0	54.26	-	-	74	-19.74	181	325	H
* 7.31	41.93	MAv1	35.7	-30.9	0	46.73	54	-7.27	-	-	181	325	H

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

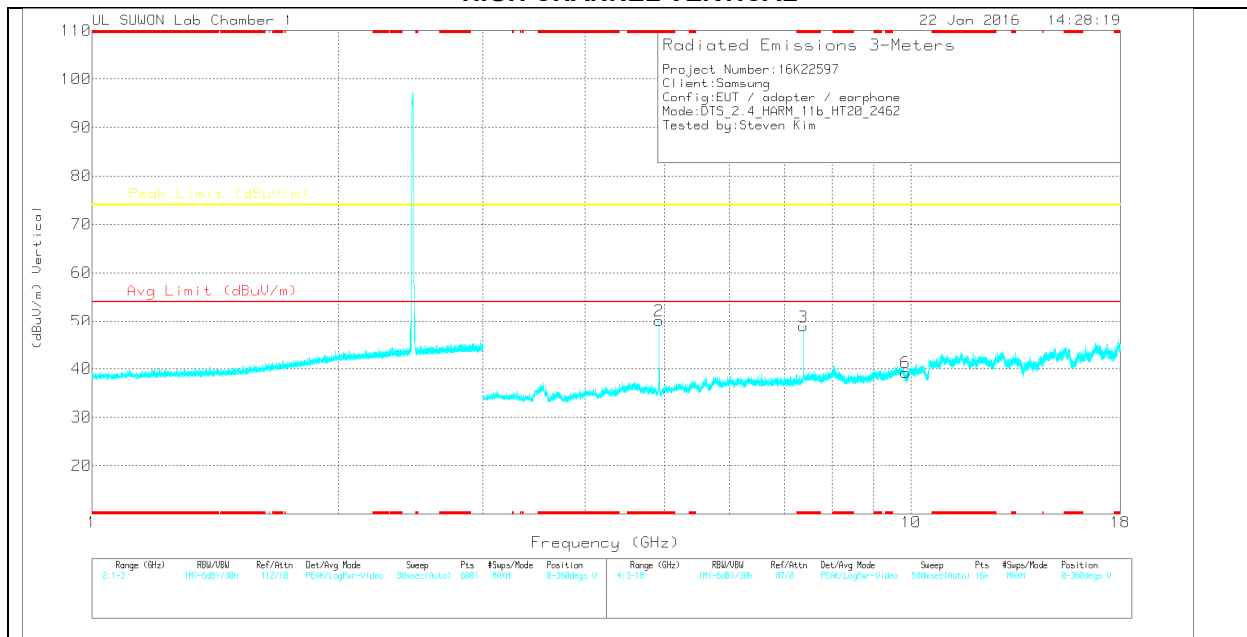
PK2 - KDB558074 Method: Maximum Peak

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	3117/001687 17_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	* 4.924	46.79	PK	34	-34	0	46.79	-	-	74	-27.21	0-360	100	H
4	* 7.386	37.86	PK	35.8	-30.7	0	42.96	-	-	74	-31.04	0-360	200	H
5	9.848	28.84	PK	37.3	-27.6	0	38.54	-	-	74	-35.46	0-360	200	H
2	* 4.924	50.04	PK	34	-34	0	50.04	-	-	74	-23.96	0-360	100	V
3	* 7.385	43.72	PK	35.8	-30.7	0	48.82	-	-	74	-25.18	0-360	100	V
6	9.848	29.51	PK	37.3	-27.6	0	39.21	-	-	74	-34.79	0-360	200	V

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

PK – Peak detector

Radiated Emissions

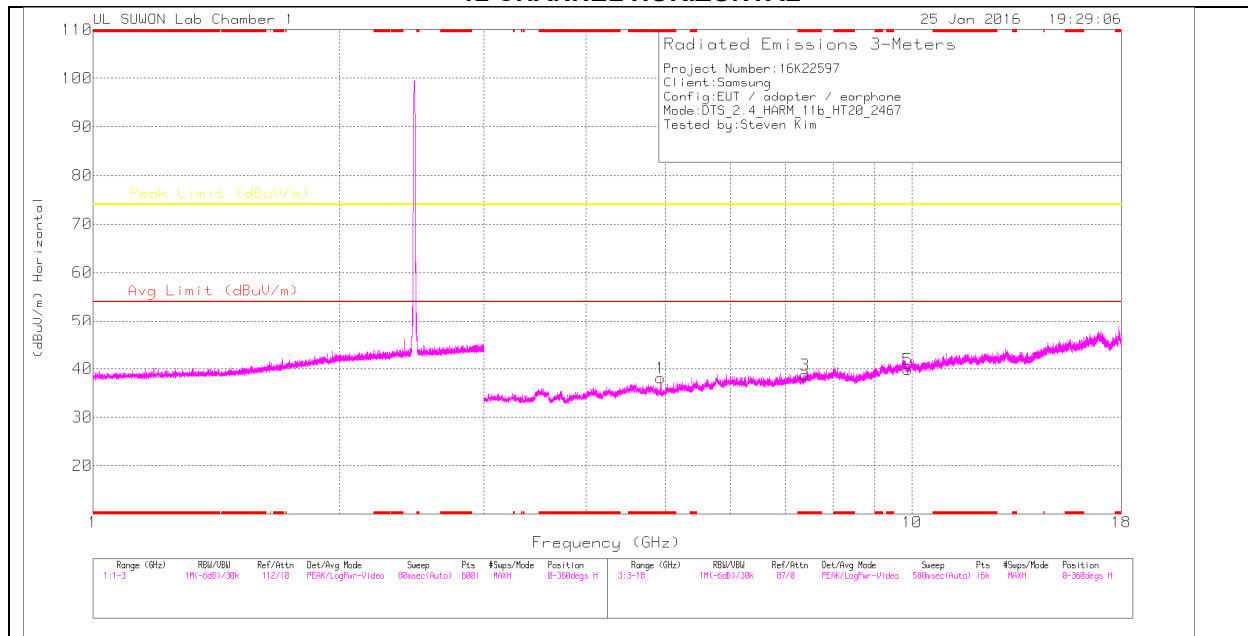
Frequency (GHz)	Meter Reading (dBuV)	Det	3117/0016 8717_150 619	Path_3	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.924	51.86	PK2	34	-34	0	51.86	-	-	74	-22.14	336	229	H
* 4.924	47.17	MAv1	34	-34	0	47.17	54	-6.83	-	-	336	229	H
* 4.924	53.84	PK2	34	-34	0	53.84	-	-	74	-20.16	218	231	V
* 4.924	49.85	MAv1	34	-34	0	49.85	54	-4.15	-	-	218	231	V
* 7.387	50.19	PK2	35.8	-30.7	0	55.29	-	-	74	-18.71	97	366	V
* 7.385	43.02	MAv1	35.8	-30.7	0	48.12	54	-5.88	-	-	97	366	V
* 7.386	48.11	PK2	35.8	-30.7	0	53.21	-	-	74	-20.79	34	388	H
* 7.387	39.15	MAv1	35.8	-30.7	0	44.25	54	-9.75	-	-	34	388	H

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

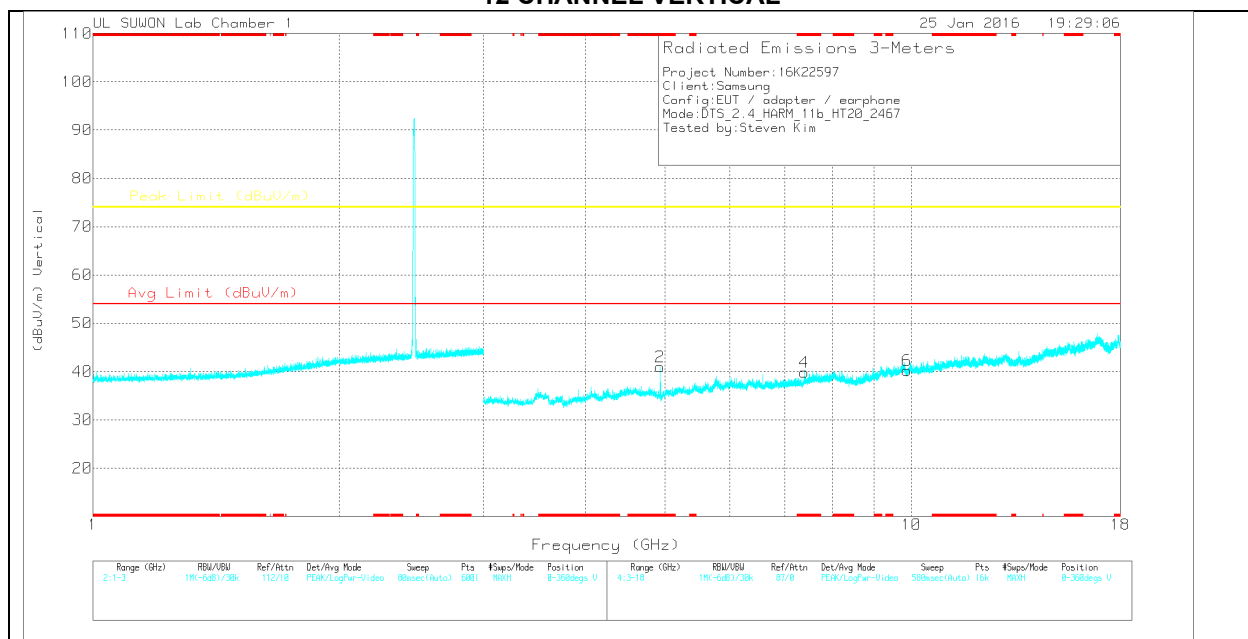
PK2 - KDB558074 Method: Maximum Peak

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(001687 17)_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	* 4.934	38.09	PK	34	-34	0	38.09	-	-	74	-35.91	0-360	100	H
3	* 7.401	33.49	PK	35.8	-30.6	0	38.69	-	-	74	-35.31	0-360	200	H
5	9.869	30.5	PK	37.3	-27.9	0	39.9	-	-	74	-34.1	0-360	100	H
2	* 4.934	41.03	PK	34	-34	0	41.03	-	-	74	-32.97	0-360	100	V
4	* 7.398	34.62	PK	35.8	-30.6	0	39.82	-	-	74	-34.18	0-360	100	V
6	9.869	30.81	PK	37.3	-27.9	0	40.21	-	-	74	-33.79	0-360	200	V

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

PK – Peak detector

Radiated Emissions

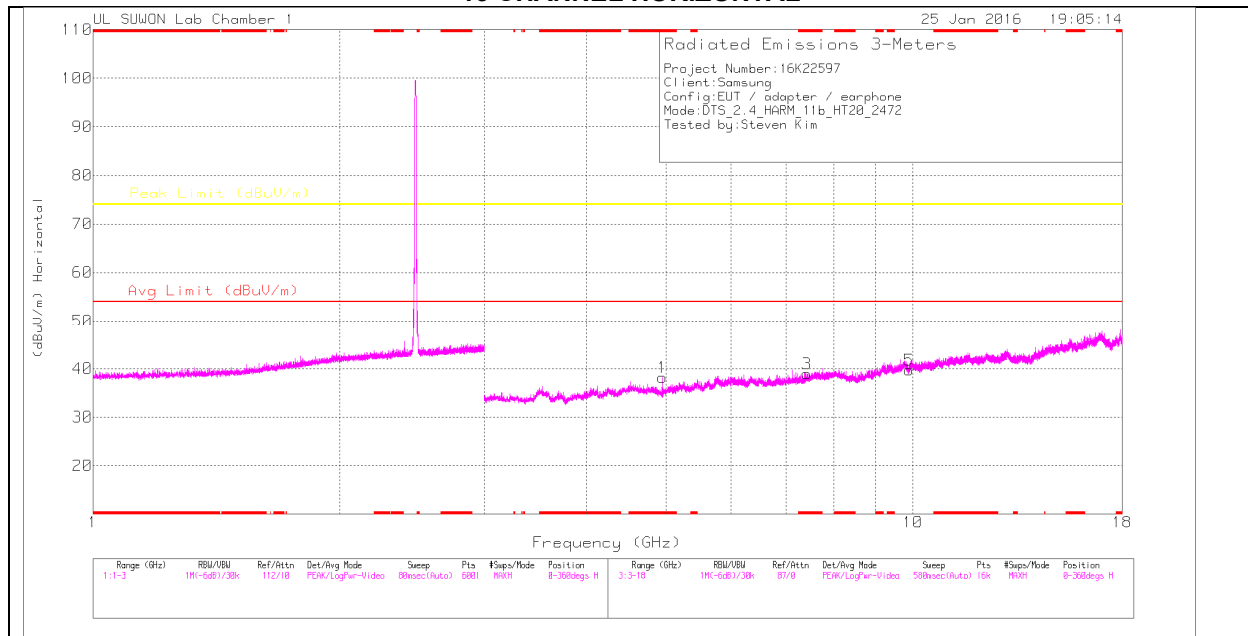
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001 68717)_1 50619	Path_3	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.934	48.64	PK2	34	-34	0	48.64	-	-	74	-25.36	151	343	H
* 4.934	39.26	MAv1	34	-34	0	39.26	54	-14.74	-	-	151	343	H
* 4.934	49.62	PK2	34	-34	0	49.62	-	-	74	-24.38	32	254	V
* 4.934	41.45	MAv1	34	-34	0	41.45	54	-12.55	-	-	32	254	V

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

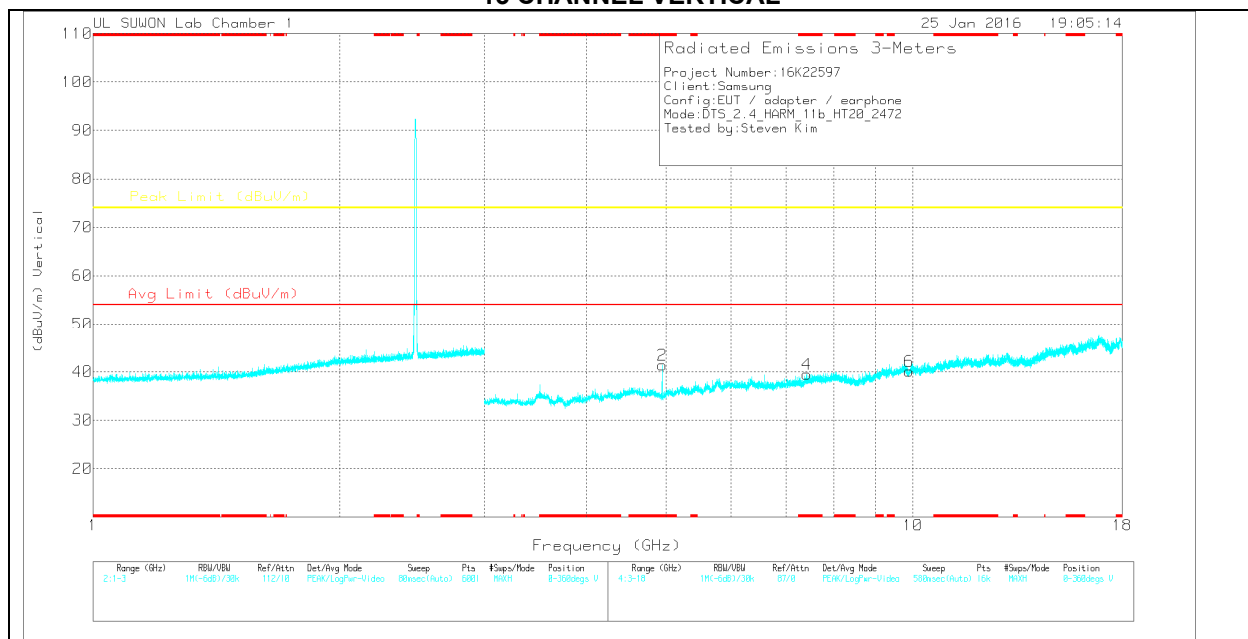
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

13 CHANNEL HORIZONTAL



13 CHANNEL VERTICAL



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

13 CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 17)_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	* 4.943	38.25	PK	34	-34	0	38.25	-	-	74	-35.75	0-360	100	H
3	* 7.418	33.85	PK	35.8	-30.7	0	38.95	-	-	74	-35.05	0-360	200	H
5	9.889	30.22	PK	37.3	-27.8	0	39.72	-	-	74	-34.28	0-360	200	H
2	* 4.943	41.43	PK	34	-34	0	41.43	-	-	74	-32.57	0-360	100	V
4	* 7.417	34.34	PK	35.8	-30.7	0	39.44	-	-	74	-34.56	0-360	100	V
6	9.888	30.61	PK	37.3	-27.8	0	40.11	-	-	74	-33.89	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(001 68717)_1 50619	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
* 4.944	47.75	PK2	34	-34	0	47.75	-	-	74	-26.25	176	111	H
* 4.944	37.95	MAv1	34	-34	0	37.95	54	-16.05	-	-	176	111	H
* 4.944	49.78	PK2	34	-34	0	49.78	-	-	74	-24.22	34	253	V
* 4.944	41.81	MAv1	34	-34	0	41.81	54	-12.19	-	-	34	253	V

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

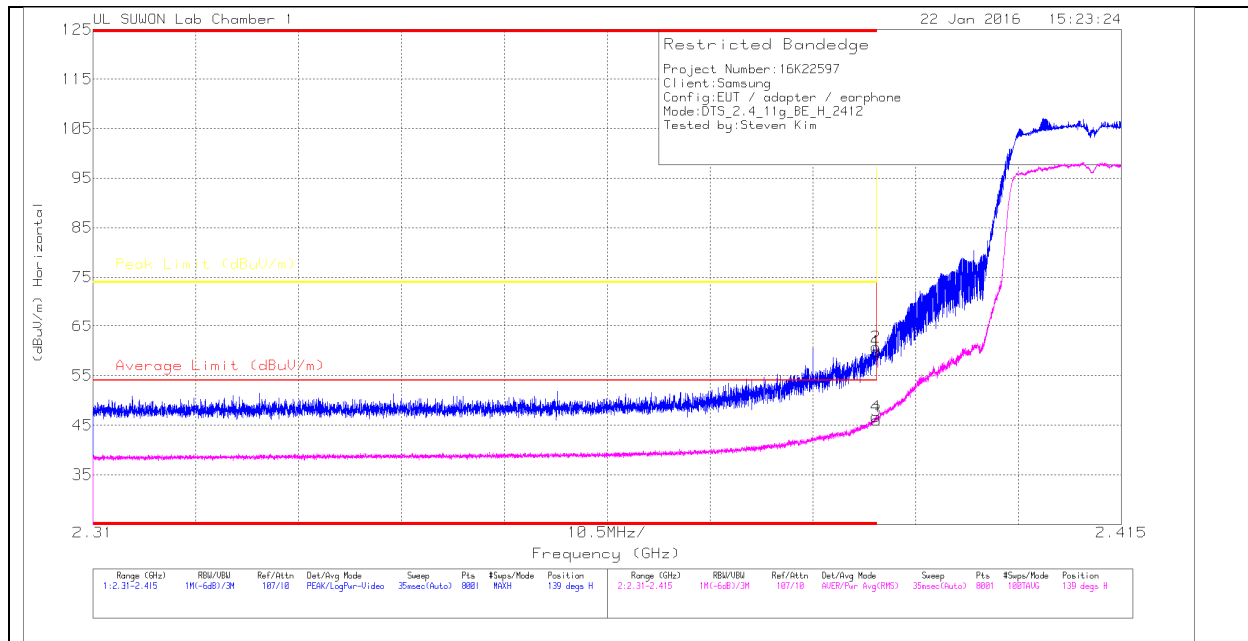
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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

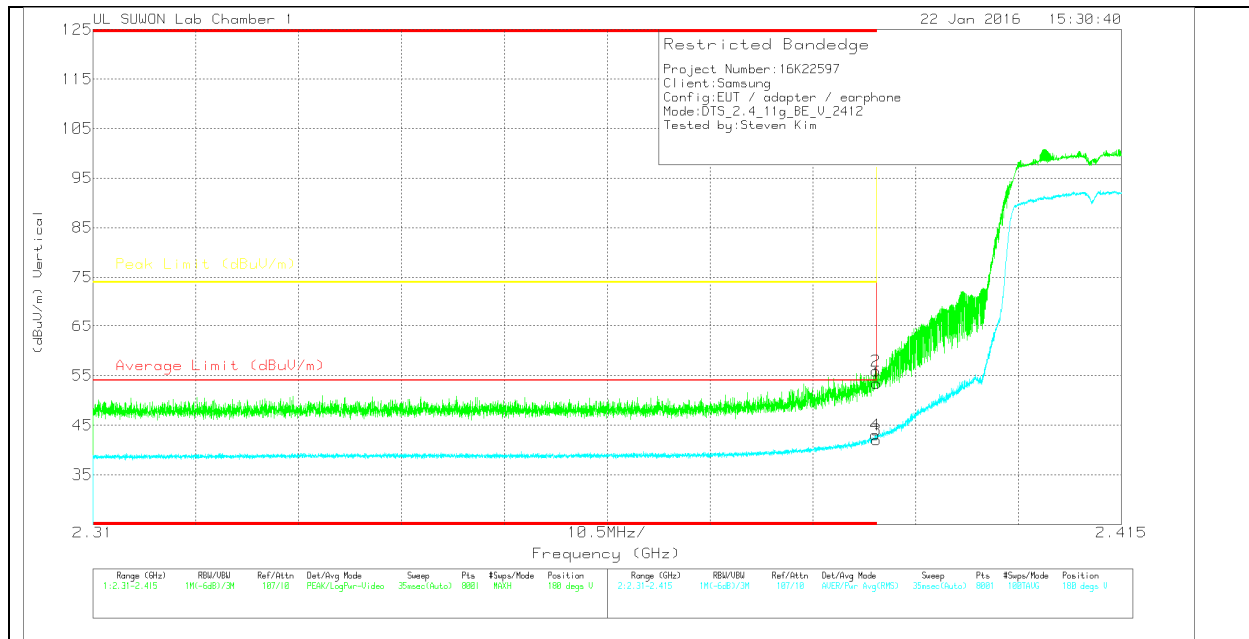
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_2	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	57.09	Pk	31.8	-29	59.89	-	-	74	-14.11	139	101	H
2	* 2.39	57.97	Pk	31.8	-29	60.77	-	-	74	-13.23	139	101	H
3	* 2.39	43.2	RMS	31.8	-29	46	54	-8	-	-	139	101	H
4	* 2.39	43.93	RMS	31.8	-29	46.73	54	-7.27	-	-	139	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	* 2.39	50.62	Pk	31.8	-29	0	53.42	-	-	74	-20.58	180	305	V
2	* 2.39	53.09	Pk	31.8	-29	0	55.89	-	-	74	-18.11	180	305	V
3	* 2.39	38.98	RMS	31.8	-29	.29	42.07	54	-11.93	-	-	180	305	V
4	* 2.39	39.96	RMS	31.8	-29	.29	43.05	54	-10.95	-	-	180	305	V

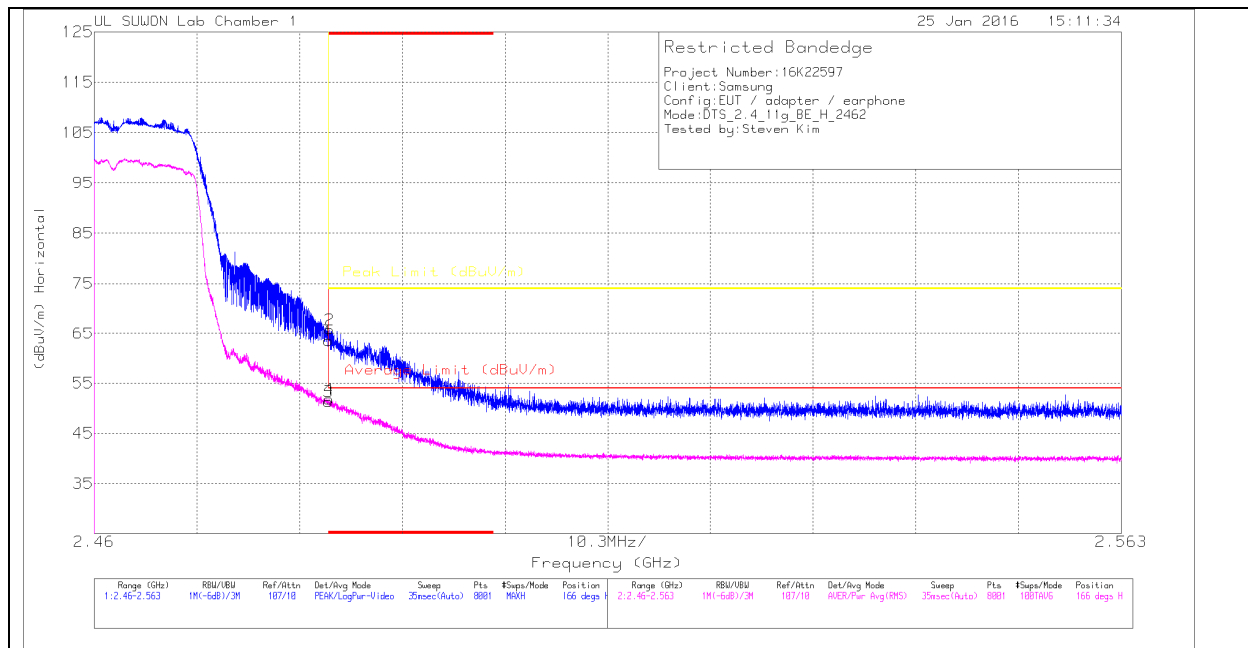
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

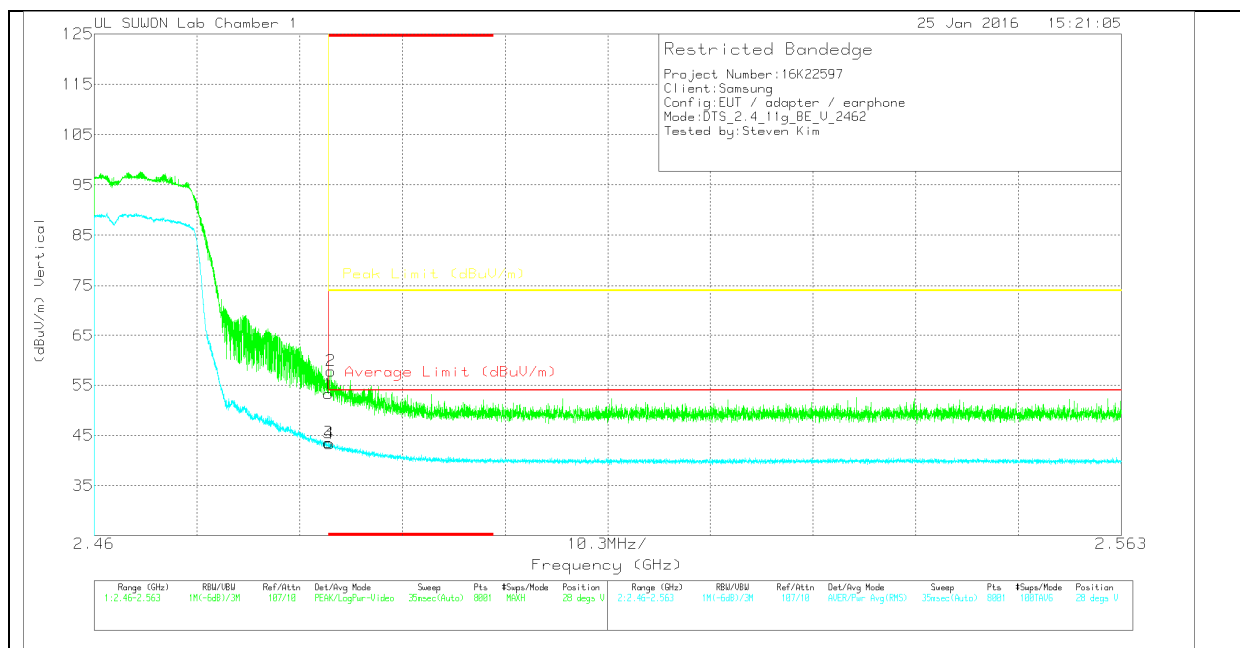
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 17)_150619	Path_2	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	59.8	Pk	32	-28.3	0	63.5	-	-	74	-10.5	166	107	H
2	* 2.484	62.11	Pk	32	-28.3	0	65.81	-	-	74	-8.19	166	107	H
3	* 2.484	47.34	RMS	32	-28.3	.29	51.33	54	-2.67	-	-	166	107	H
4	* 2.484	47.82	RMS	32	-28.3	.29	51.81	54	-2.19	-	-	166	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

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	49.56	PK	32	-28.3	0	53.26	-	-	74	-20.74	28	168	V
2	* 2.484	54.15	PK	32	-28.3	0	57.85	-	-	74	-16.15	28	168	V
3	* 2.484	39.6	RMS	32	-28.3	.29	43.59	54	-10.41	-	-	28	168	V
4	* 2.484	39.39	RMS	32	-28.3	.29	43.38	54	-10.62	-	-	28	168	V

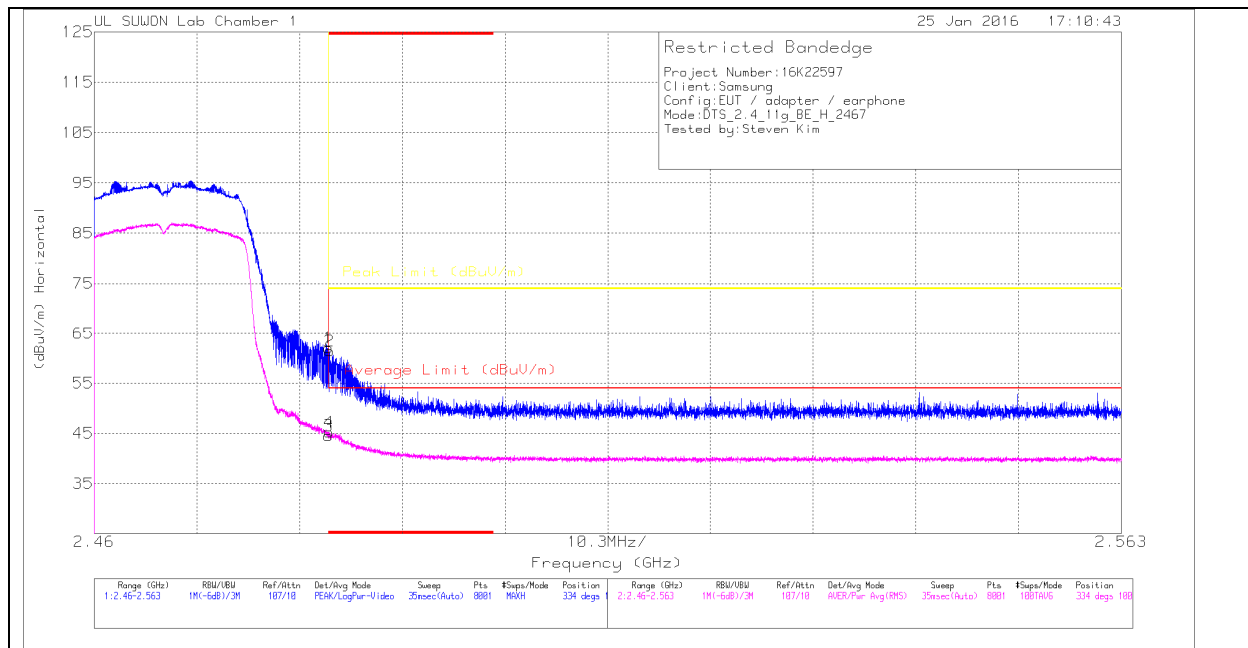
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (12 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

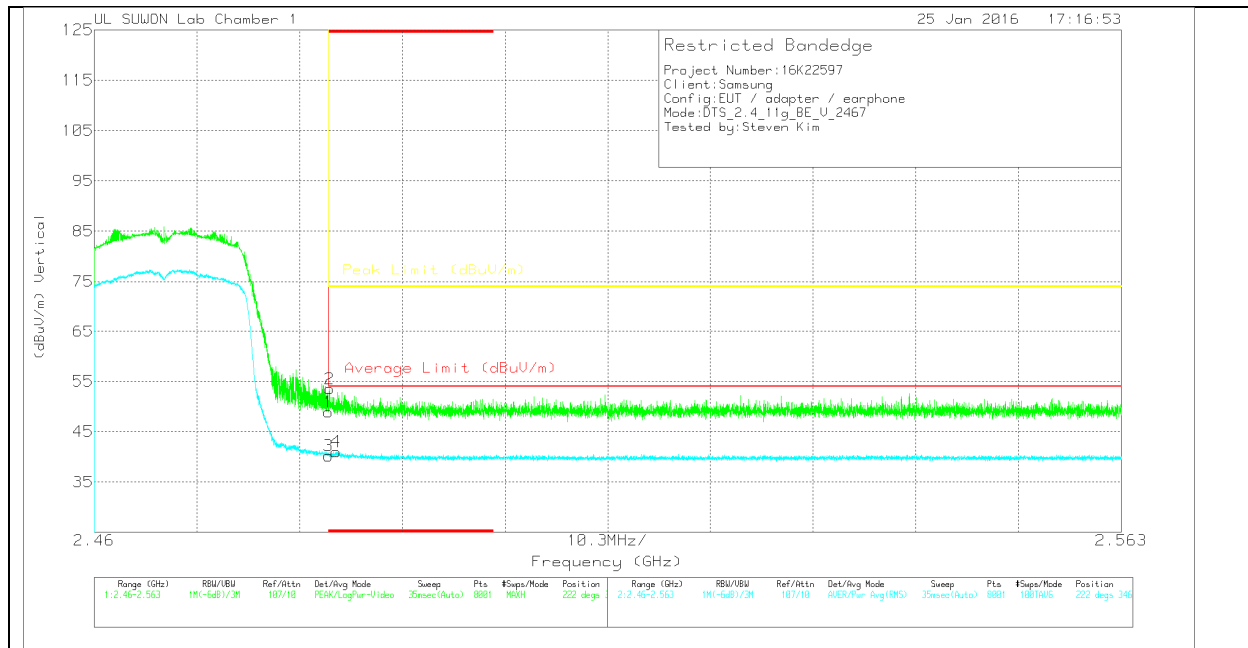
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 17)_150619	Path_2	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	58.34	Pk	32	-28.3	0	62.04	-	-	74	-11.96	334	100	H
2	* 2.484	57.74	Pk	32	-28.3	0	61.44	-	-	74	-12.56	334	100	H
3	* 2.484	40.57	RMS	32	-28.3	.29	44.56	54	-9.44	-	-	334	100	H
4	* 2.484	41.26	RMS	32	-28.3	.29	45.25	54	-8.75	-	-	334	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	45.17	PK	32	-28.3	0	48.87	-	-	74	-25.13	222	346	V
2	* 2.484	49.81	PK	32	-28.3	0	53.51	-	-	74	-20.49	222	346	V
3	* 2.484	36.23	RMS	32	-28.3	.29	40.22	54	-13.78	-	-	222	346	V
4	* 2.484	37.04	RMS	32	-28.3	.29	41.03	54	-12.97	-	-	222	346	V

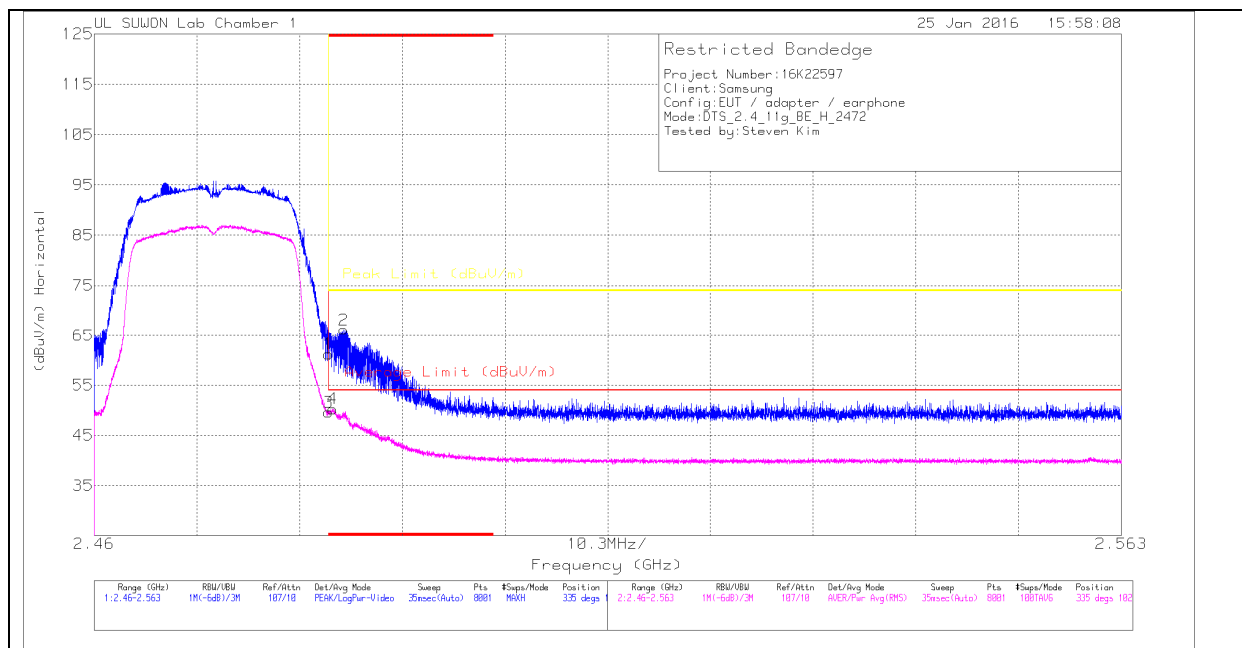
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (13 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

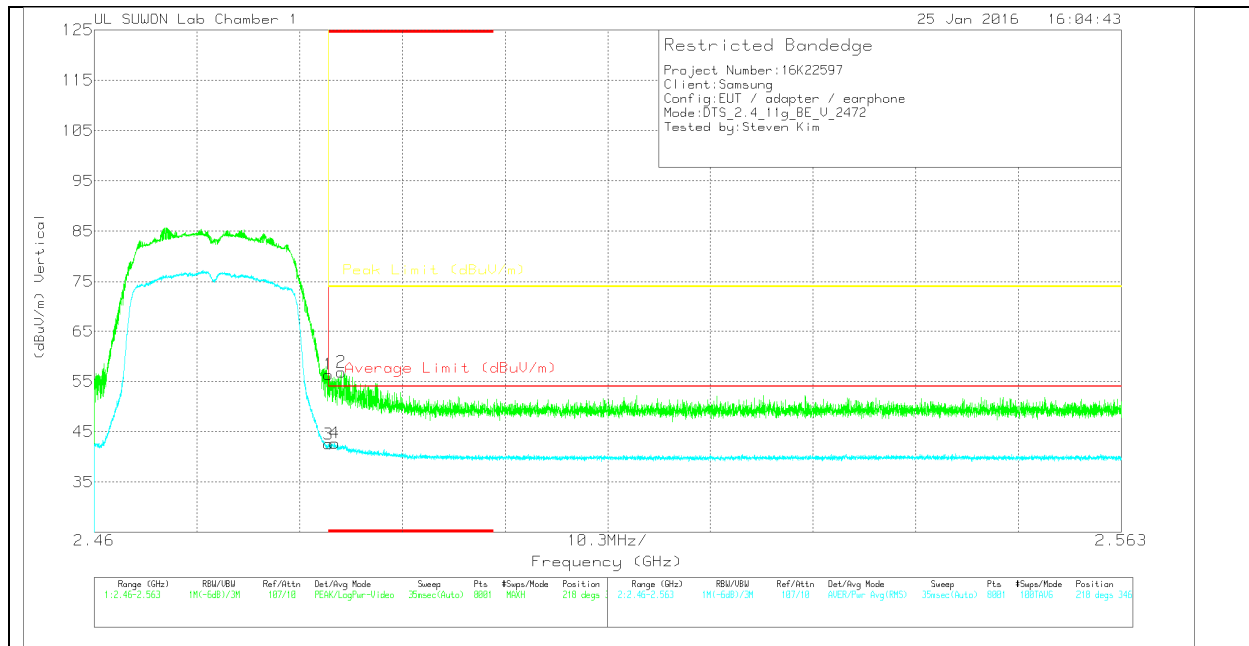
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 17_150619)	Path_2	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	57.53	Pk	32	-28.3	0	61.23	-	-	74	-12.77	335	102	H
2	* 2.485	62.46	Pk	32	-28.3	0	66.16	-	-	74	-7.84	335	102	H
3	* 2.484	45.64	RMS	32	-28.3	.29	49.63	54	-4.37	-	-	335	102	H
4	* 2.484	46.31	RMS	32	-28.3	.29	50.3	54	-3.7	-	-	335	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 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	52.69	PK	32	-28.3	0	56.39	-	-	74	-17.61	218	346	V
2	* 2.485	53.16	PK	32	-28.3	0	56.86	-	-	74	-17.14	218	346	V
3	* 2.484	38.58	RMS	32	-28.3	.29	42.57	54	-11.43	-	-	218	346	V
4	* 2.484	38.76	RMS	32	-28.3	.29	42.75	54	-11.25	-	-	218	346	V

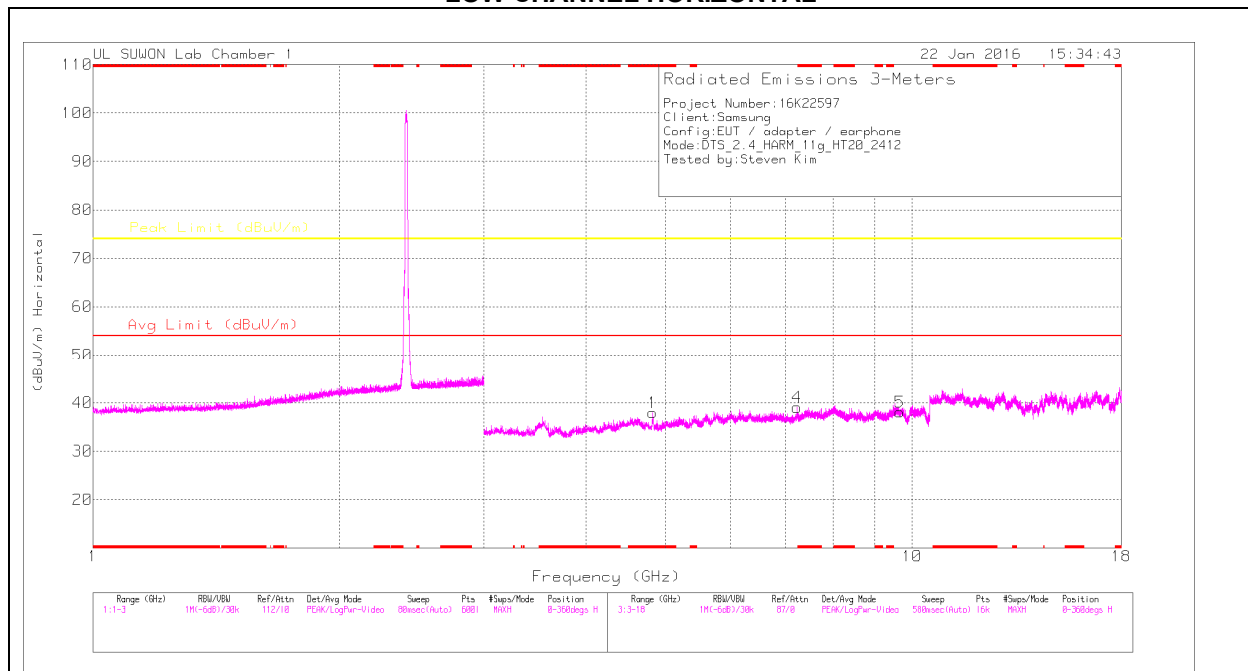
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

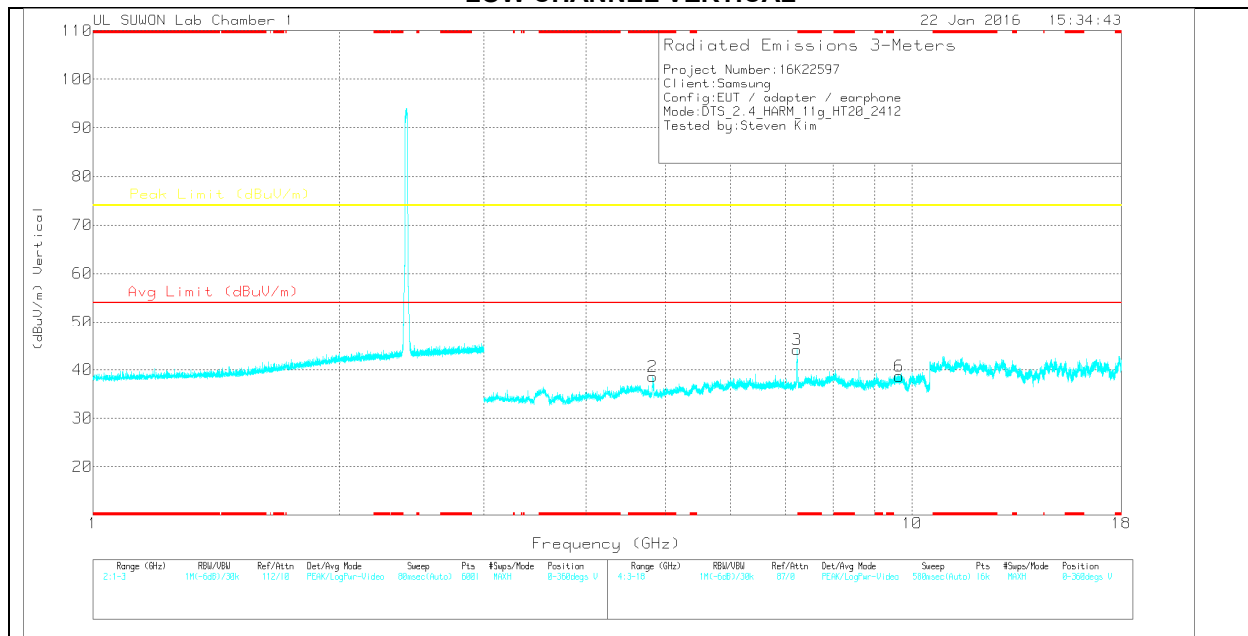
RMS - RMS detection

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(001687 17)_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	* 4.824	37.79	Pk	34	-33.8	0	37.99	-	-	74	-36.01	0-360	100	H
4	7.235	34.24	Pk	35.7	-30.9	0	39.04	-	-	74	-34.96	0-360	200	H
5	9.65	28.41	Pk	37.1	-27.4	0	38.11	-	-	74	-35.89	0-360	100	H
2	* 4.825	38.38	Pk	34	-33.8	0	38.58	-	-	74	-35.42	0-360	100	V
3	7.239	39.41	Pk	35.7	-30.9	0	44.21	-	-	74	-29.79	0-360	100	V
6	9.648	28.96	Pk	37.1	-27.4	0	38.66	-	-	74	-35.34	0-360	100	V

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

Pk – Peak Detector

Radiated Emissions

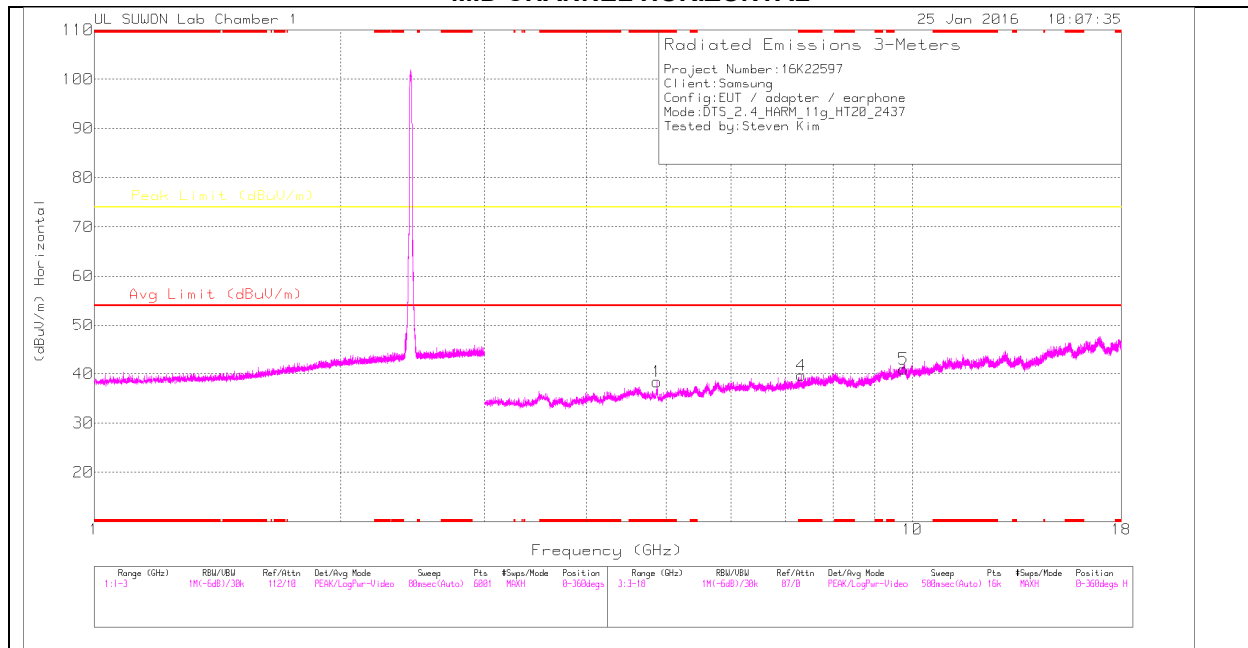
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001 68717)_1 50619	Path_3	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.826	48.95	PK2	34	-33.8	0	49.15	-	-	74	-24.85	340	259	H
* 4.824	35.78	MAv1	34	-33.8	.29	36.27	54	-17.73	-	-	340	259	H
* 4.826	51.48	PK2	34	-33.8	0	51.68	-	-	74	-22.32	216	263	V
* 4.824	39.64	MAv1	34	-33.8	.29	40.13	54	-13.87	-	-	216	263	V
7.235	50.29	PK2	35.7	-30.9	0	55.09	-	-	74	-18.91	202	253	H
7.238	53.51	PK2	35.7	-30.9	0	58.31	-	-	74	-15.69	108	100	V

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

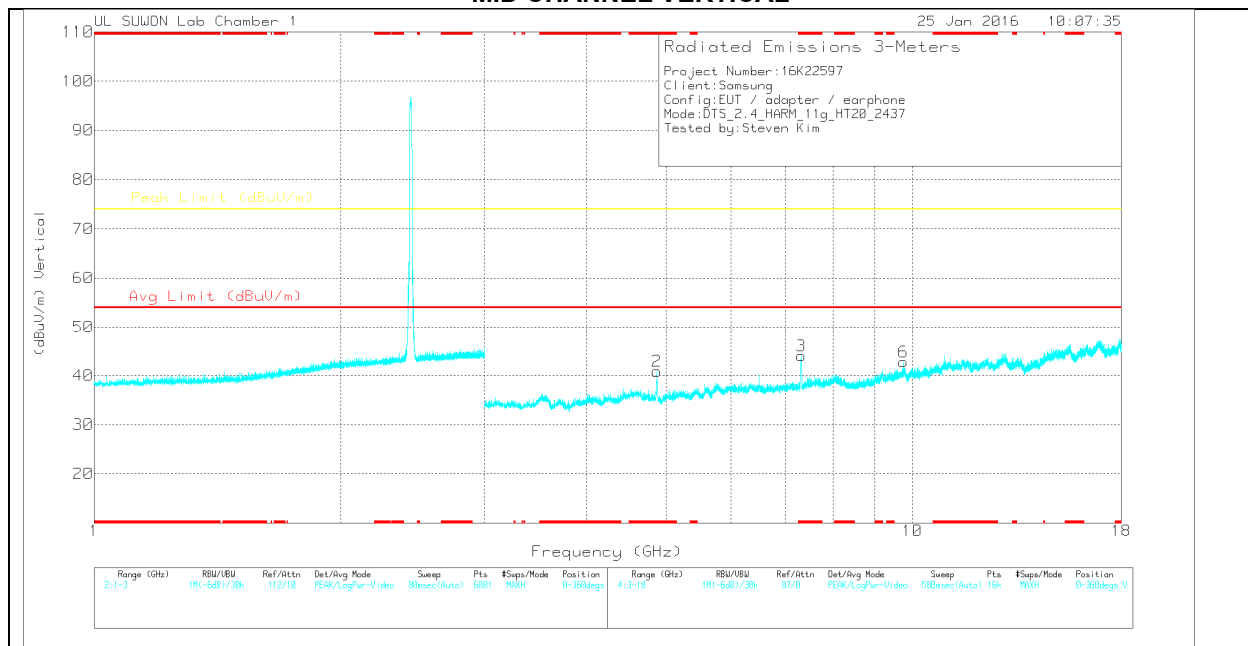
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



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

MID CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 17)_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	38.38	PK	34	-34	0	38.38	-	-	74	-35.62	0-360	200	H
4	* 7.316	34.75	PK	35.8	-30.9	0	39.65	-	-	74	-34.35	0-360	200	H
5	9.75	30.56	PK	37.2	-26.8	0	40.96	-	-	74	-33.04	0-360	100	H
2	* 4.873	40.87	PK	34	-34	0	40.87	-	-	74	-33.13	0-360	100	V
3	* 7.312	39.23	PK	35.7	-30.9	0	44.03	-	-	74	-29.97	0-360	100	V
6	9.748	32.38	PK	37.2	-26.8	0	42.78	-	-	74	-31.22	0-360	200	V

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

PK – Peak detector

Radiated Emissions

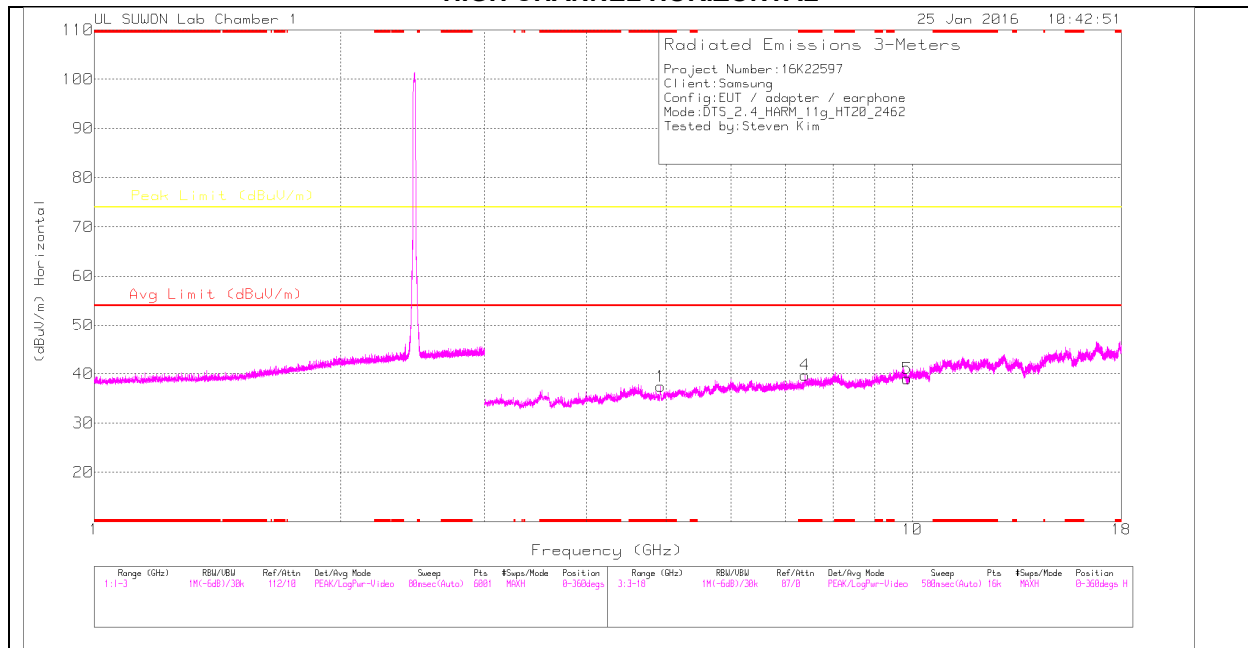
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001 68717)_1 50619	Path_3	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.867	47.62	PK2	34	-34	0	47.62	-	-	74	-26.38	298	343	H
* 4.876	36.16	MAv1	34	-34	.29	36.45	54	-17.55	-	-	298	343	H
* 4.876	47.51	PK2	34	-34	0	47.51	-	-	74	-26.49	220	349	V
* 4.876	35.32	MAv1	34	-34	.29	35.61	54	-18.39	-	-	220	349	V
* 7.313	52.37	PK2	35.8	-30.9	0	57.27	-	-	74	-16.73	110	100	V
* 7.309	38.36	MAv1	35.7	-30.9	.29	43.45	54	-10.55	-	-	110	100	V
* 7.313	47.9	PK2	35.8	-30.9	0	52.8	-	-	74	-21.2	142	253	H
* 7.31	34.52	MAv1	35.7	-30.9	.29	39.61	54	-14.39	-	-	142	253	H

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

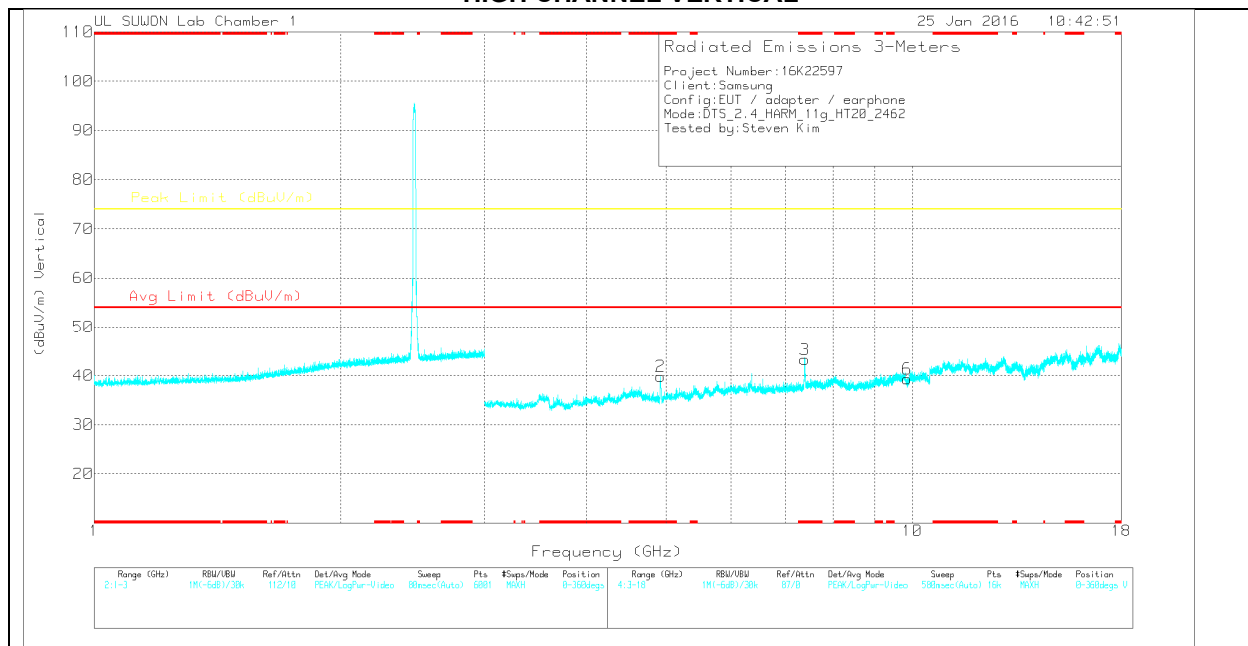
PK2 - KDB558074 Method: Maximum Peak

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(001687 17)_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	* 4.926	37.4	PK	34	-34	0	37.4	-	-	74	-36.6	0-360	100	H
4	* 7.39	34.63	PK	35.8	-30.7	0	39.73	-	-	74	-34.27	0-360	100	H
5	9.849	29.31	PK	37.3	-27.6	0	39.01	-	-	74	-34.99	0-360	200	H
2	* 4.924	39.84	PK	34	-34	0	39.84	-	-	74	-34.16	0-360	100	V
3	* 7.386	38.16	PK	35.8	-30.7	0	43.26	-	-	74	-30.74	0-360	100	V
6	9.848	29.62	PK	37.3	-27.6	0	39.32	-	-	74	-34.68	0-360	100	V

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

PK – Peak detector

Radiated Emissions

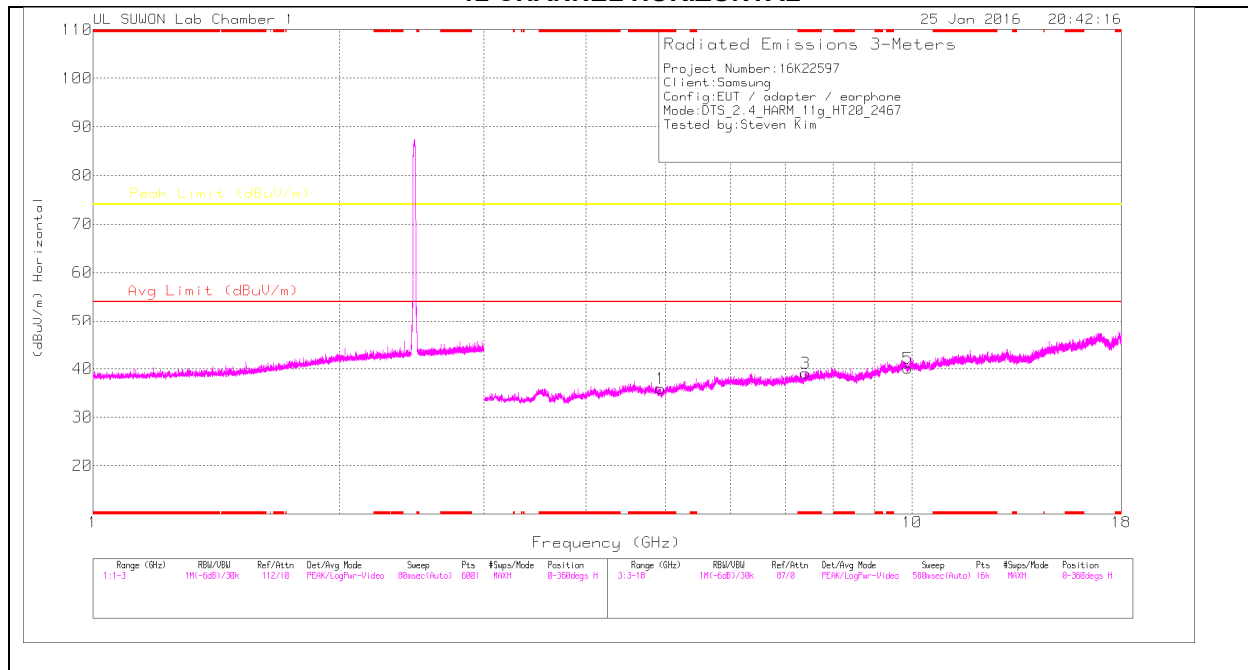
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001 68717)_1 50619	Path_3	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.924	48.55	PK2	34	-34	0	48.55	-	-	74	-25.45	294	346	H
* 4.924	35.87	MAv1	34	-34	.29	36.16	54	-17.84	-	-	294	346	H
* 4.924	52.52	PK2	34	-34	0	52.52	-	-	74	-21.48	214	259	V
* 4.924	39.53	MAv1	34	-34	.29	39.82	54	-14.18	-	-	214	259	V
* 7.387	51.38	PK2	35.8	-30.7	0	56.48	-	-	74	-17.52	104	103	V
* 7.389	37.4	MAv1	35.8	-30.7	.29	42.79	54	-11.21	-	-	104	103	V
* 7.389	46.94	PK2	35.8	-30.7	0	52.04	-	-	74	-21.96	139	367	H
* 7.383	33.1	MAv1	35.8	-30.7	.29	38.49	54	-15.51	-	-	139	367	H

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

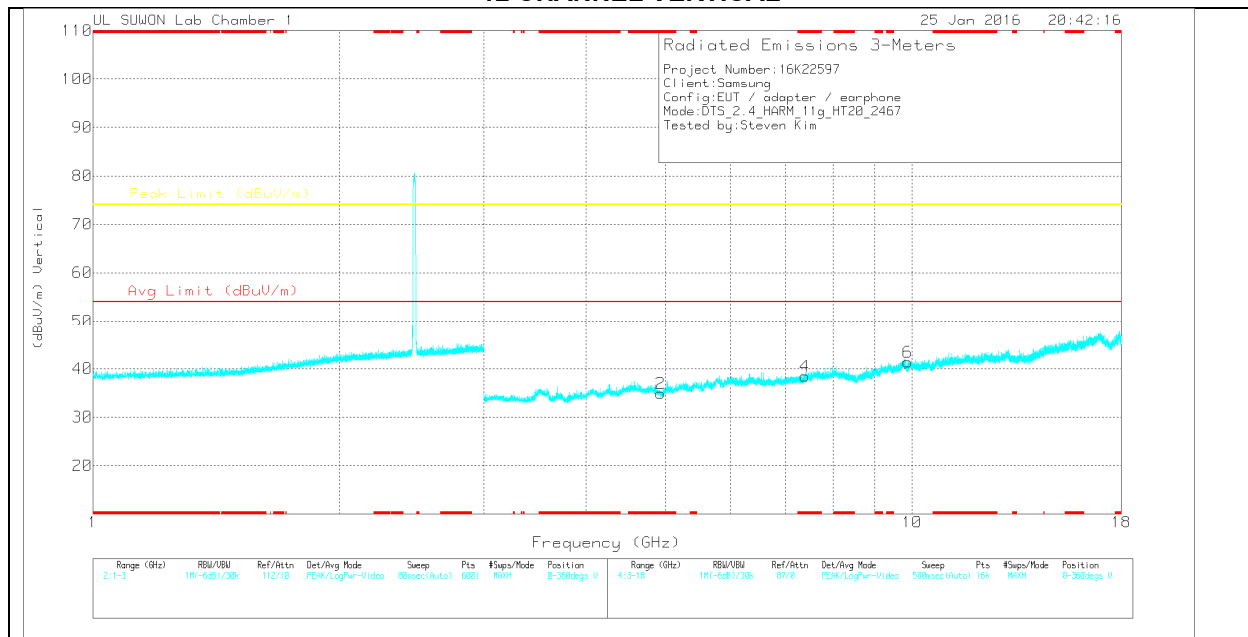
PK2 - KDB558074 Method: Maximum Peak

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

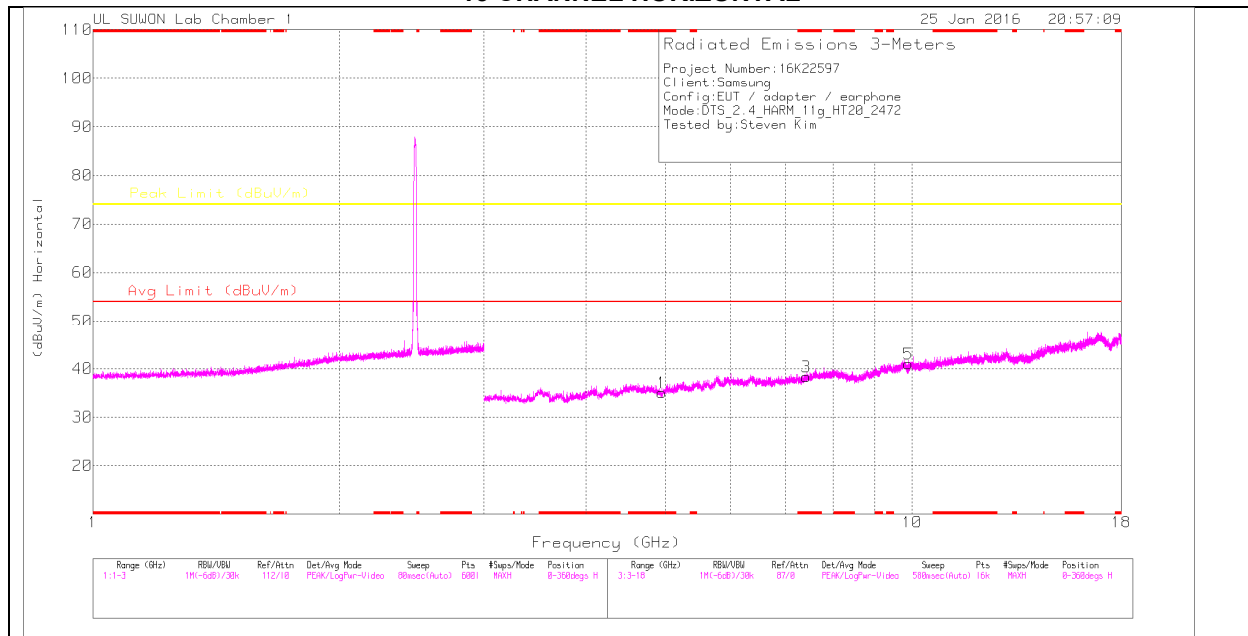
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 17)_150619	Path_3	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.934	35.97	PK	34	-34	0	35.97	-	-	74	-38.03	0-360	200	H
3	* 7.405	33.91	PK	35.8	-30.6	0	39.11	-	-	74	-34.89	0-360	100	H
5	9.871	30.81	PK	37.3	-28	0	40.11	-	-	74	-33.89	0-360	200	H
2	* 4.928	34.94	PK	34	-34	0	34.94	-	-	74	-39.06	0-360	200	V
4	* 7.4	33.22	PK	35.8	-30.6	0	38.42	-	-	74	-35.58	0-360	100	V
6	9.868	31.99	PK	37.3	-27.9	0	41.39	-	-	74	-32.61	0-360	200	V

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

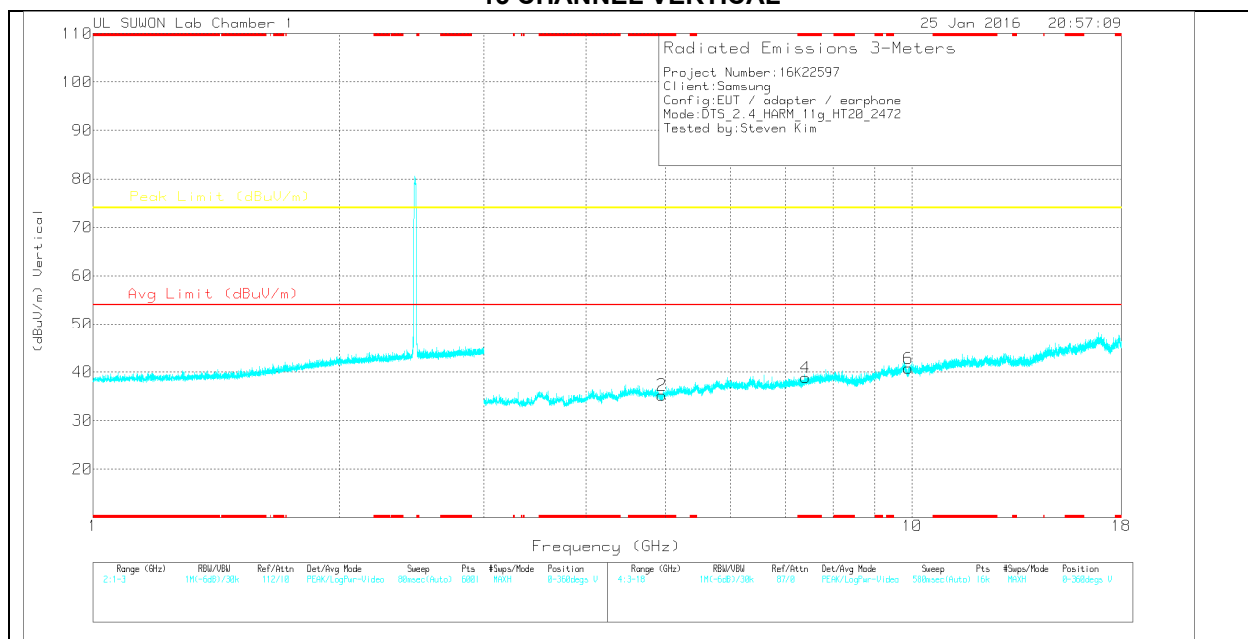
PK – Peak detector

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	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.943	35.03	PK	34	-34	0	35.03	-	-	74	-38.97	0-360	100	H
3	* 7.421	33.28	PK	35.8	-30.7	0	38.38	-	-	74	-35.62	0-360	100	H
5	9.887	31.62	PK	37.3	-27.9	0	41.02	-	-	74	-32.98	0-360	100	H
2	* 4.943	35.24	PK	34	-34	0	35.24	-	-	74	-38.76	0-360	100	V
4	* 7.415	33.8	PK	35.8	-30.7	0	38.9	-	-	74	-35.1	0-360	200	V
6	9.888	31.2	PK	37.3	-27.8	0	40.7	-	-	74	-33.3	0-360	100	V

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

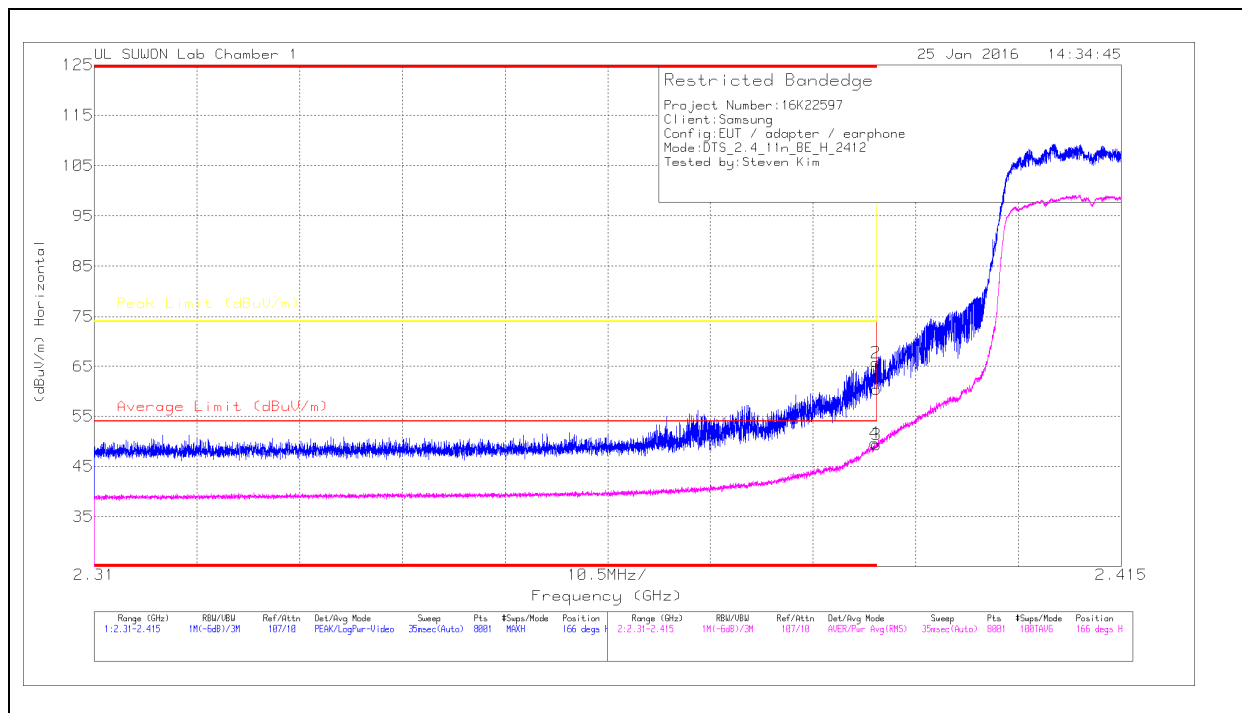
PK – Peak detector

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

11.2.3. 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

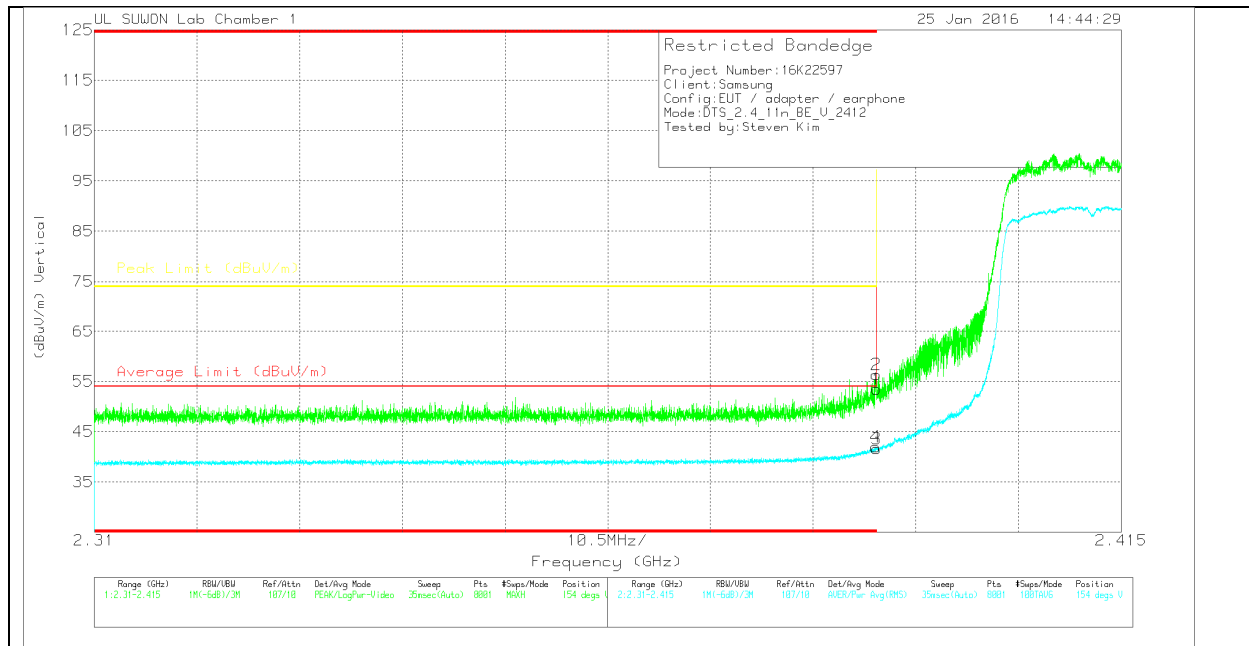
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 17)_150619	Path_2	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	57.58	Pk	31.8	-29	0	60.38	-	-	74	-13.62	166	101	H
2	* 2.39	63.04	Pk	31.8	-29	0	65.84	-	-	74	-8.16	166	101	H
3	* 2.39	46.21	RMS	31.8	-29	.34	49.35	54	-4.65	-	-	166	101	H
4	* 2.39	46.52	RMS	31.8	-29	.34	49.66	54	-4.34	-	-	166	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	* 2.39	50.69	PK	31.8	-29	0	53.49	-	-	74	-20.51	154	192	V
2	* 2.39	53.55	PK	31.8	-29	0	56.35	-	-	74	-17.65	154	192	V
3	* 2.39	38.49	RMS	31.8	-29	.34	41.63	54	-12.37	-	-	154	192	V
4	* 2.39	38.84	RMS	31.8	-29	.34	41.98	54	-12.02	-	-	154	192	V

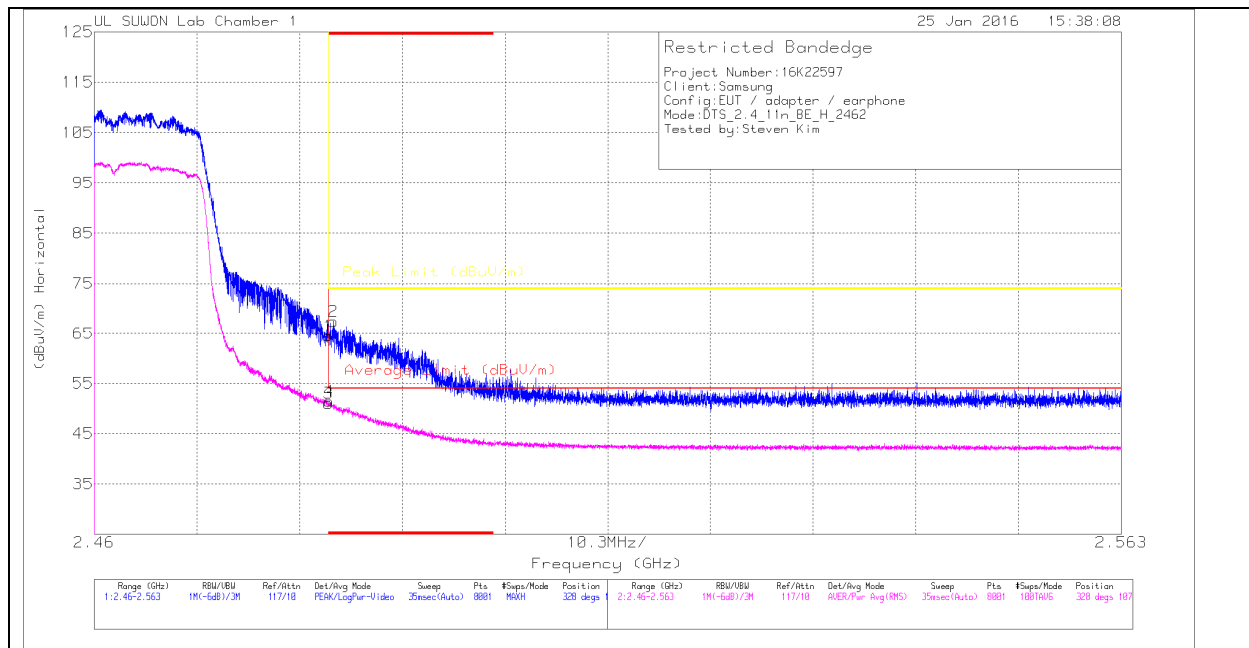
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

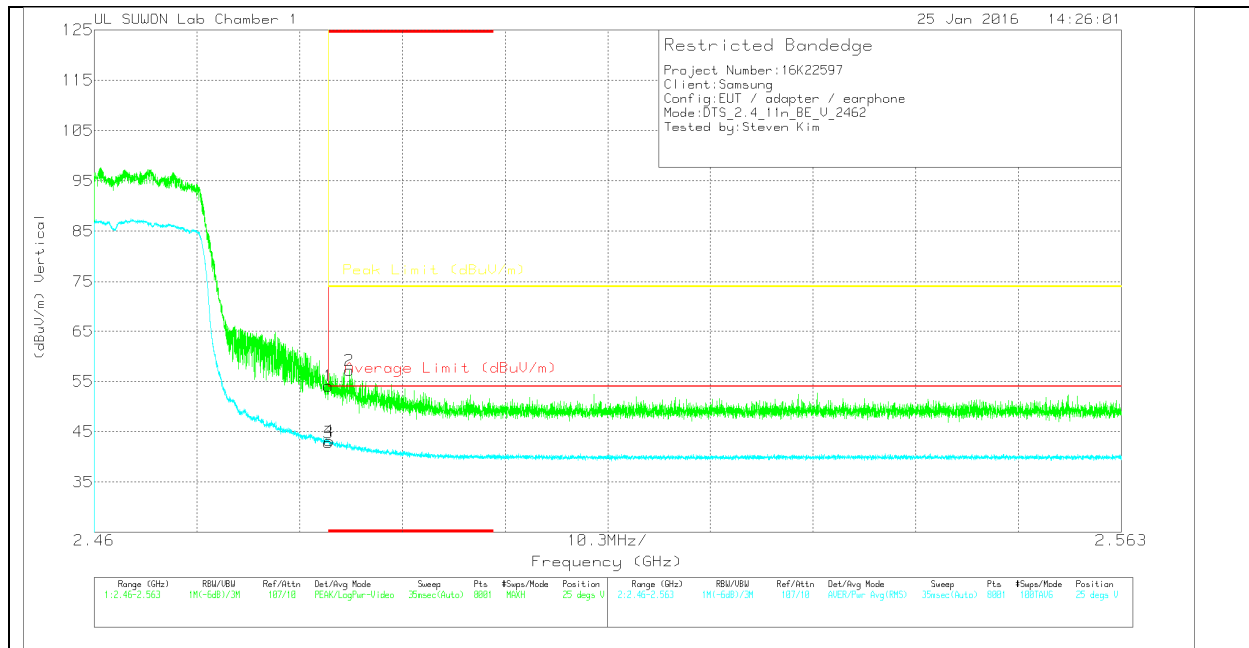
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 17_150619)	Path_2	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	60.81	Pk	32	-28.3	0	64.51	-	-	74	-9.49	328	107	H
2	* 2.484	63.78	Pk	32	-28.3	0	67.48	-	-	74	-6.52	328	107	H
3	* 2.484	47.01	RMS	32	-28.3	.34	51.05	54	-2.95	-	-	328	107	H
4	* 2.484	47.42	RMS	32	-28.3	.34	51.46	54	-2.54	-	-	328	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

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	50.39	PK	32	-28.3	0	54.09	-	-	74	-19.91	25	169	V
2	* 2.486	53.47	PK	32	-28.3	0	57.17	-	-	74	-16.83	25	169	V
3	* 2.484	38.81	RMS	32	-28.3	.34	42.85	54	-11.15	-	-	25	169	V
4	* 2.484	39.12	RMS	32	-28.3	.34	43.16	54	-10.84	-	-	25	169	V

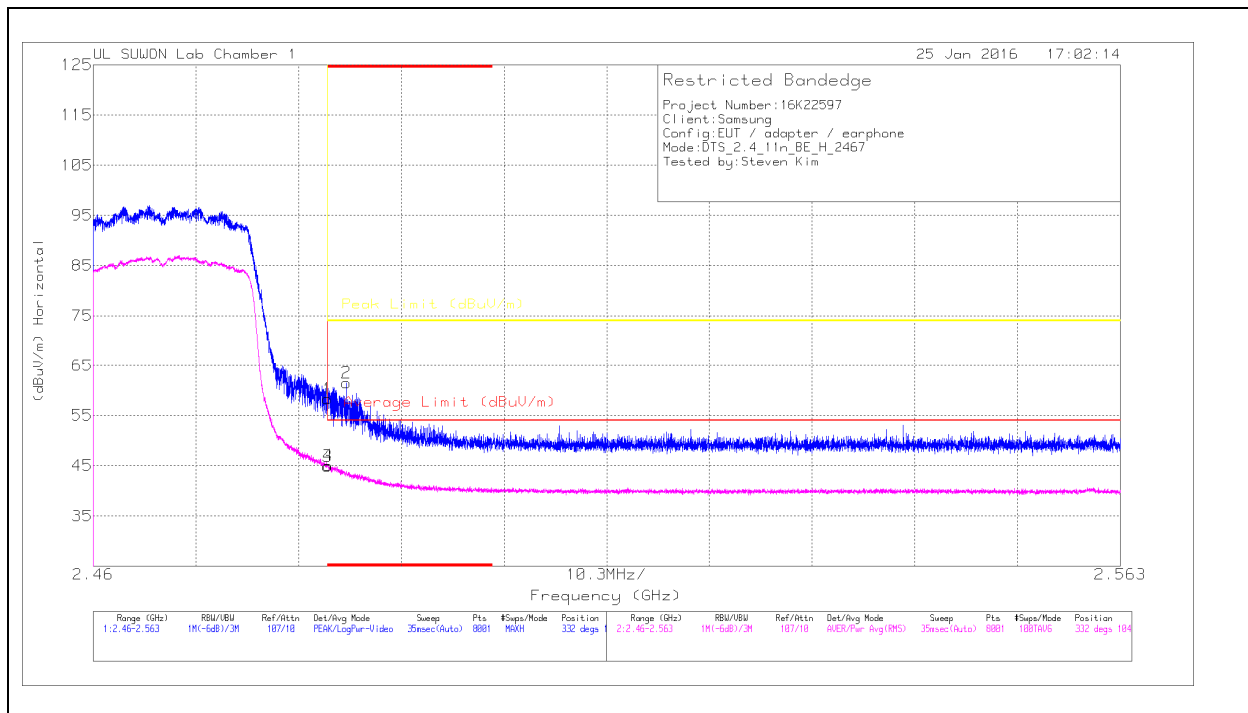
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (12 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

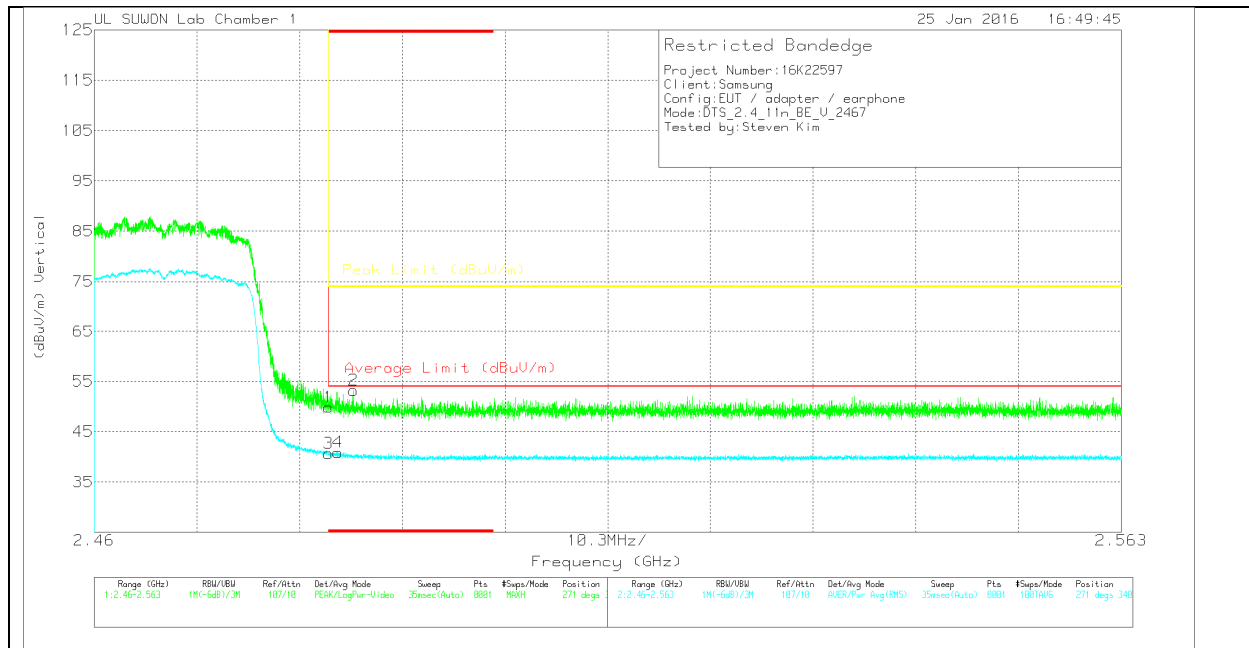
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 17_150619)	Path_2	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	54.59	Pk	32	-28.3	0	58.29	-	-	74	-15.71	332	104	H
2	* 2.485	57.78	Pk	32	-28.3	0	61.48	-	-	74	-12.52	332	104	H
3	* 2.484	40.87	RMS	32	-28.3	.34	44.91	54	-9.09	-	-	332	104	H
4	* 2.484	41	RMS	32	-28.3	.34	45.04	54	-8.96	-	-	332	104	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	46.15	Pk	32	-28.3	0	49.85	-	-	74	-24.15	271	340	V
2	* 2.486	49.53	Pk	32	-28.3	0	53.23	-	-	74	-20.77	271	340	V
3	* 2.484	36.65	RMS	32	-28.3	.34	40.69	54	-13.31	-	-	271	340	V
4	* 2.484	36.88	RMS	32	-28.3	.34	40.92	54	-13.08	-	-	271	340	V

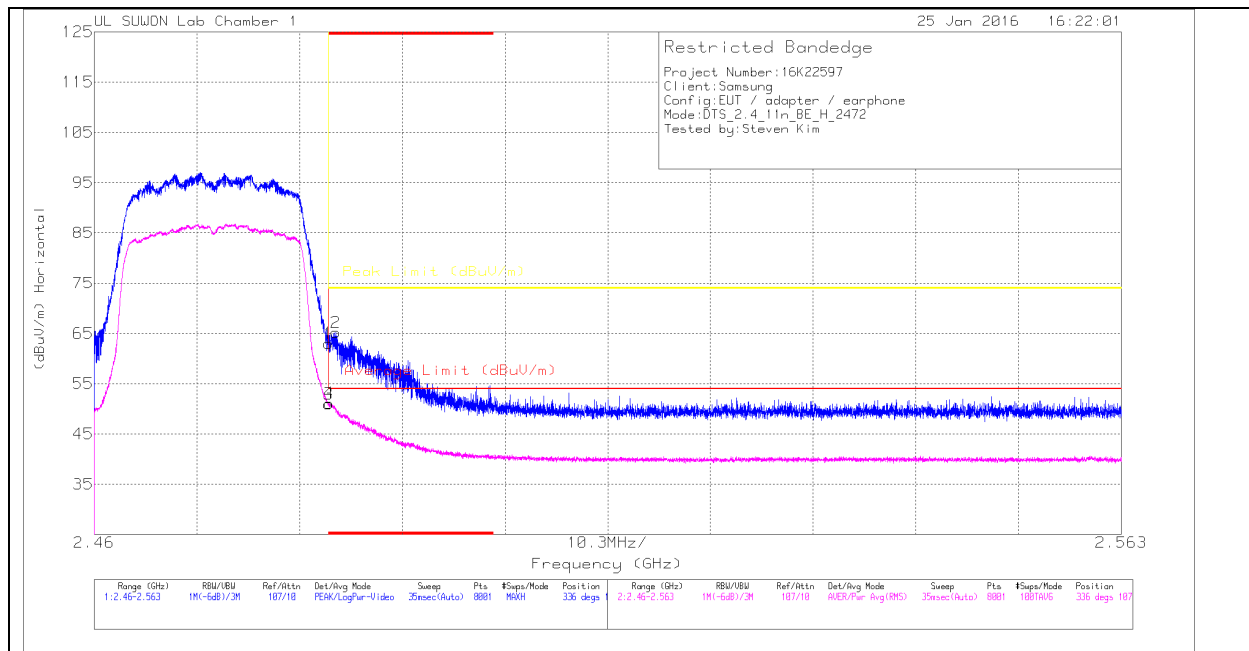
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (13 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

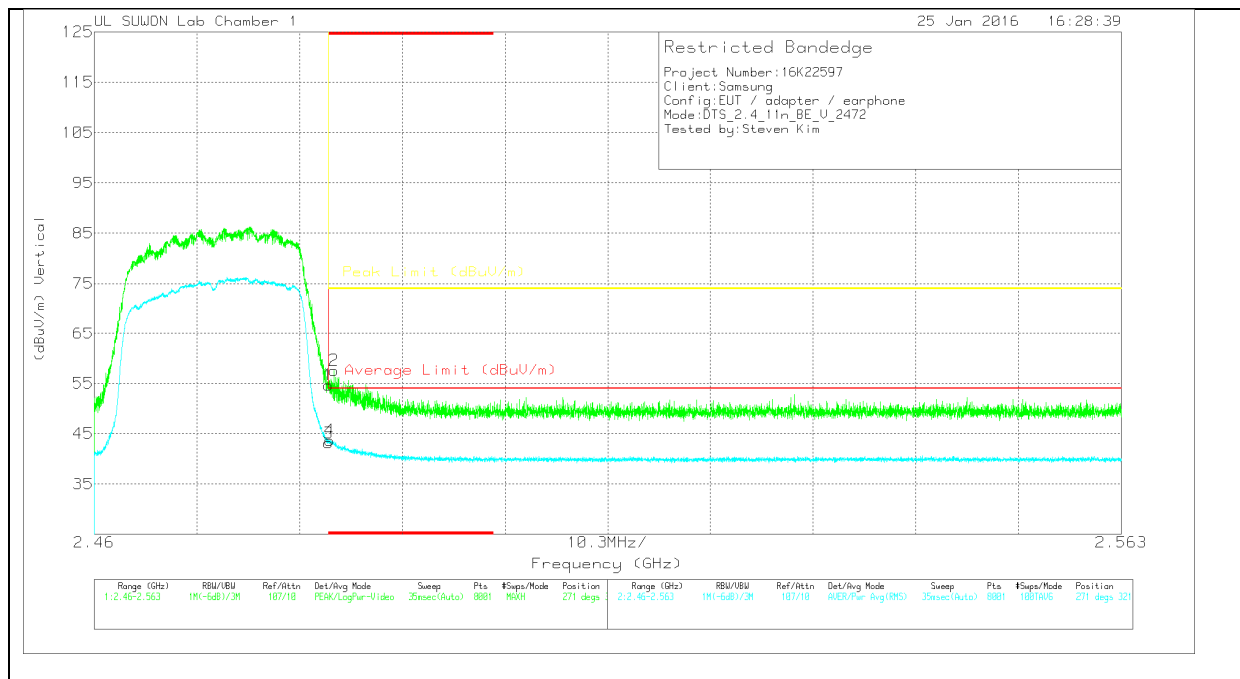
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 17_150619)	Path_2	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	59.34	Pk	32	-28.3	0	63.04	-	-	74	-10.96	336	107	H
2	* 2.484	61.52	Pk	32	-28.3	0	65.22	-	-	74	-8.78	336	107	H
3	* 2.484	46.96	RMS	32	-28.3	.34	51	54	-3	-	-	336	107	H
4	* 2.484	47.1	RMS	32	-28.3	.34	51.14	54	-2.86	-	-	336	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

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	50.98	Pk	32	-28.3	0	54.68	-	-	74	-19.32	271	321	V
2	* 2.484	53.86	Pk	32	-28.3	0	57.56	-	-	74	-16.44	271	321	V
3	* 2.484	39.14	RMS	32	-28.3	.34	43.18	54	-10.82	-	-	271	321	V
4	* 2.484	39.65	RMS	32	-28.3	.34	43.69	54	-10.31	-	-	271	321	V

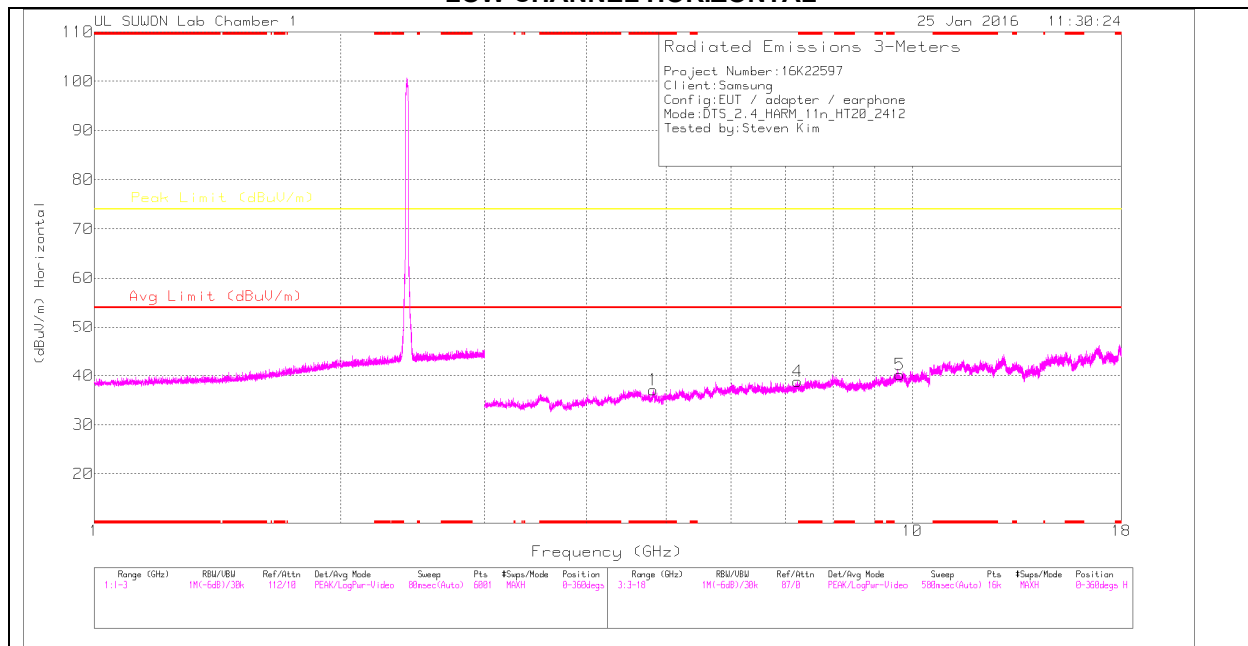
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

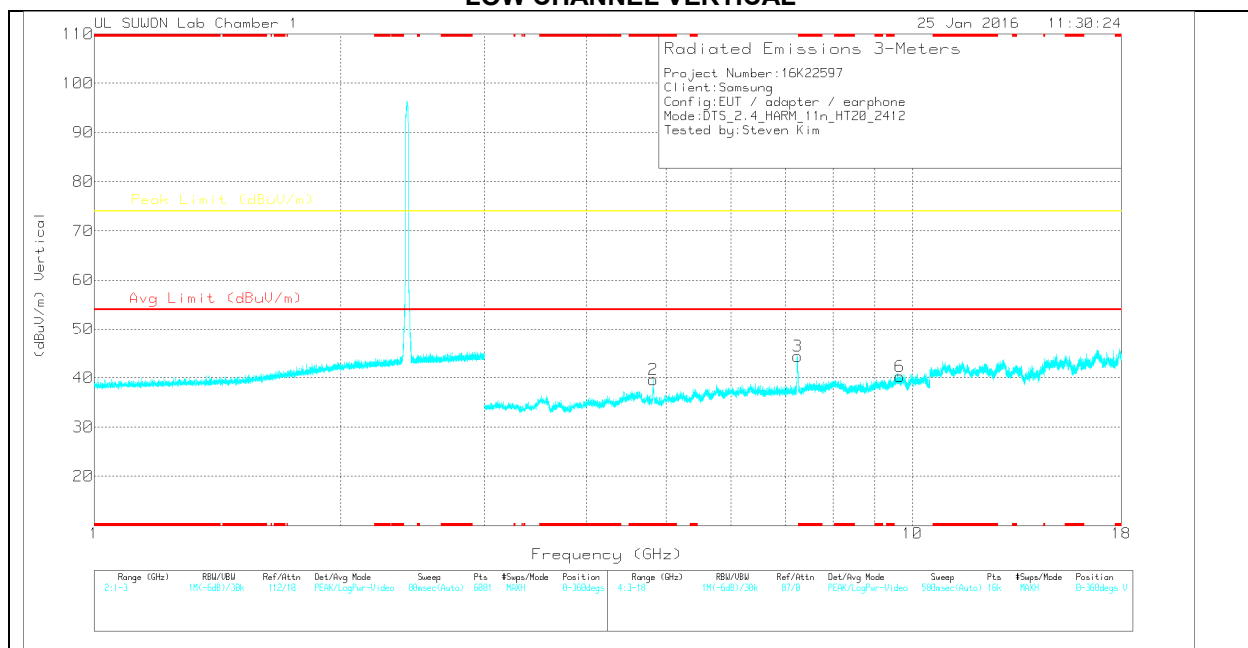
RMS - RMS detection

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(001687 17)_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	* 4.824	36.89	PK	34	-33.8	0	37.09	-	-	74	-36.91	0-360	100	H
4	7.238	34.03	PK	35.7	-30.9	0	38.83	-	-	74	-35.17	0-360	200	H
5	9.649	30.5	PK	37.1	-27.4	0	40.2	-	-	74	-33.8	0-360	200	H
2	* 4.825	39.43	PK	34	-33.8	0	39.63	-	-	74	-34.37	0-360	100	V
3	7.238	39.55	PK	35.7	-30.9	0	44.35	-	-	74	-29.65	0-360	100	V
6	9.646	30.54	PK	37.1	-27.4	0	40.24	-	-	74	-33.76	0-360	100	V

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

PK – Peak detector

Radiated Emissions

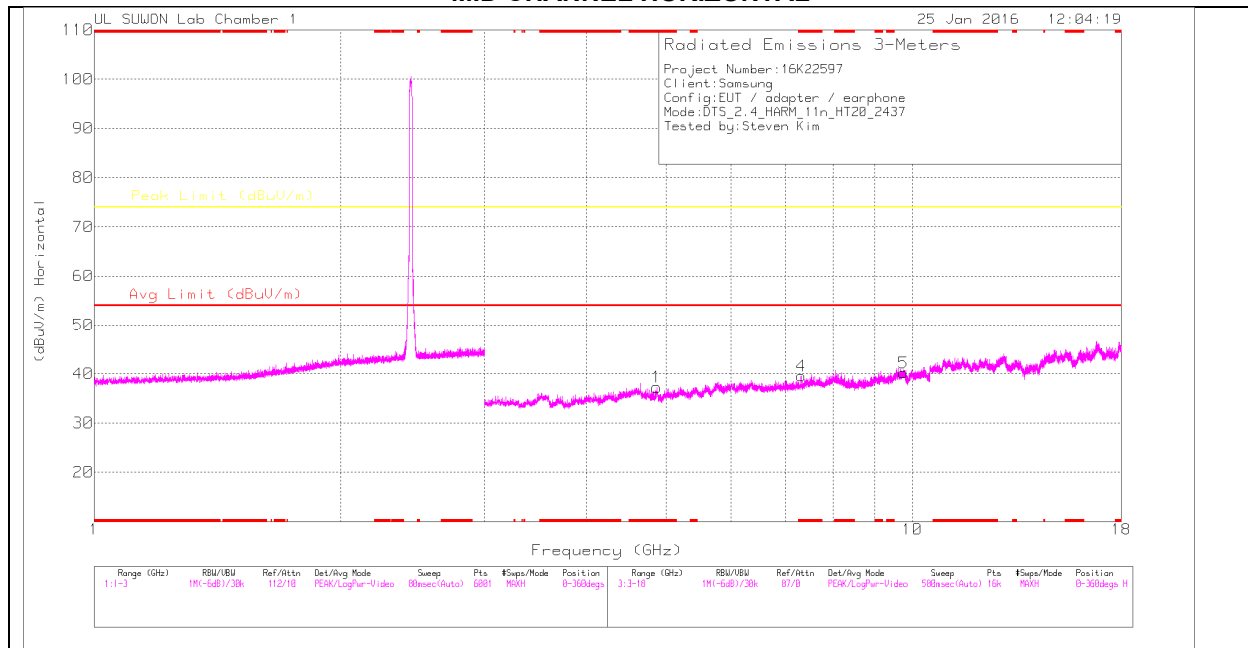
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001 68717)_1 50619	Path_3	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.825	49.04	PK2	34	-33.8	0	49.24	-	-	74	-24.76	337	317	H
* 4.824	35.68	MAv1	34	-33.8	.34	36.22	54	-17.78	-	-	337	317	H
* 4.825	51.99	PK2	34	-33.8	0	52.19	-	-	74	-21.81	207	102	V
* 4.824	37.49	MAv1	34	-33.8	.34	38.03	54	-15.97	-	-	207	102	V
7.242	52.92	PK2	35.7	-30.9	0	57.72	-	-	74	-16.28	108	387	V
7.241	50.19	PK2	35.7	-30.9	0	54.99	-	-	74	-19.01	147	354	H

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

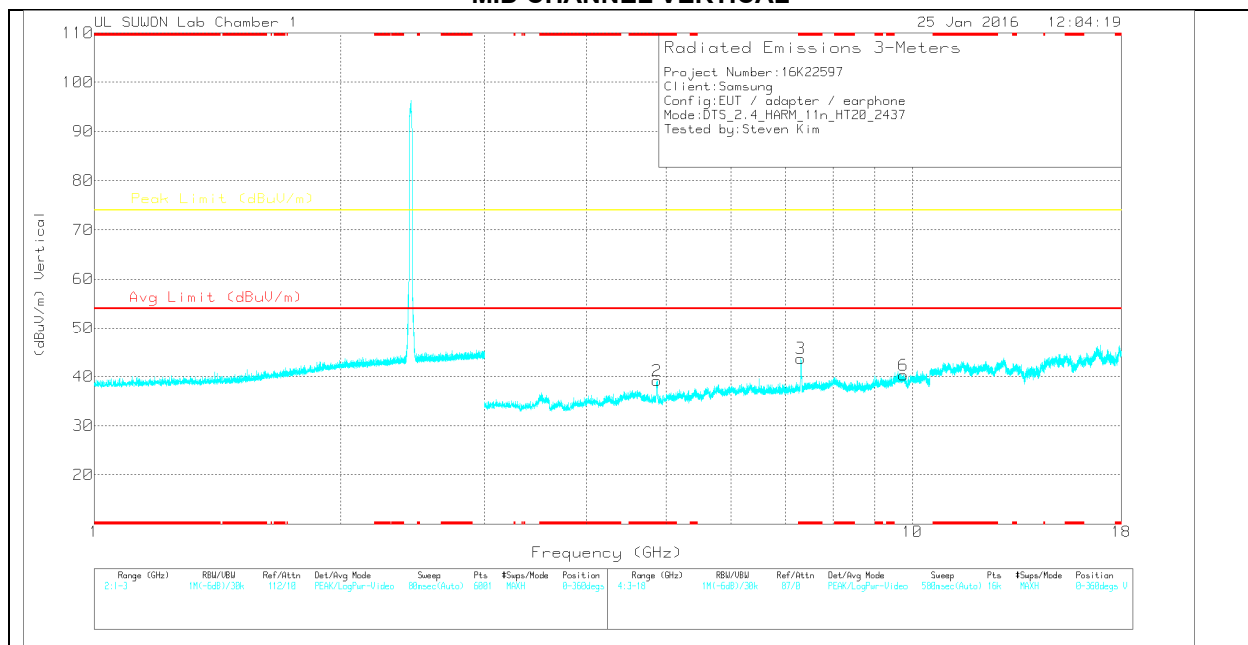
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



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

MID CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_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	* 4.869	37.25	PK	34	-34	0	37.25	-	-	74	-36.75	0-360	100	H
4	* 7.311	34.73	PK	35.7	-30.9	0	39.53	-	-	74	-34.47	0-360	200	H
5	9.747	29.87	PK	37.2	-26.9	0	40.17	-	-	74	-33.83	0-360	200	H
2	* 4.874	39.16	PK	34	-34	0	39.16	-	-	74	-34.84	0-360	100	V
3	* 7.308	38.88	PK	35.7	-30.9	0	43.68	-	-	74	-30.32	0-360	100	V
6	9.752	29.76	PK	37.2	-26.7	0	40.26	-	-	74	-33.74	0-360	200	V

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

PK – Peak detector

Radiated Emissions

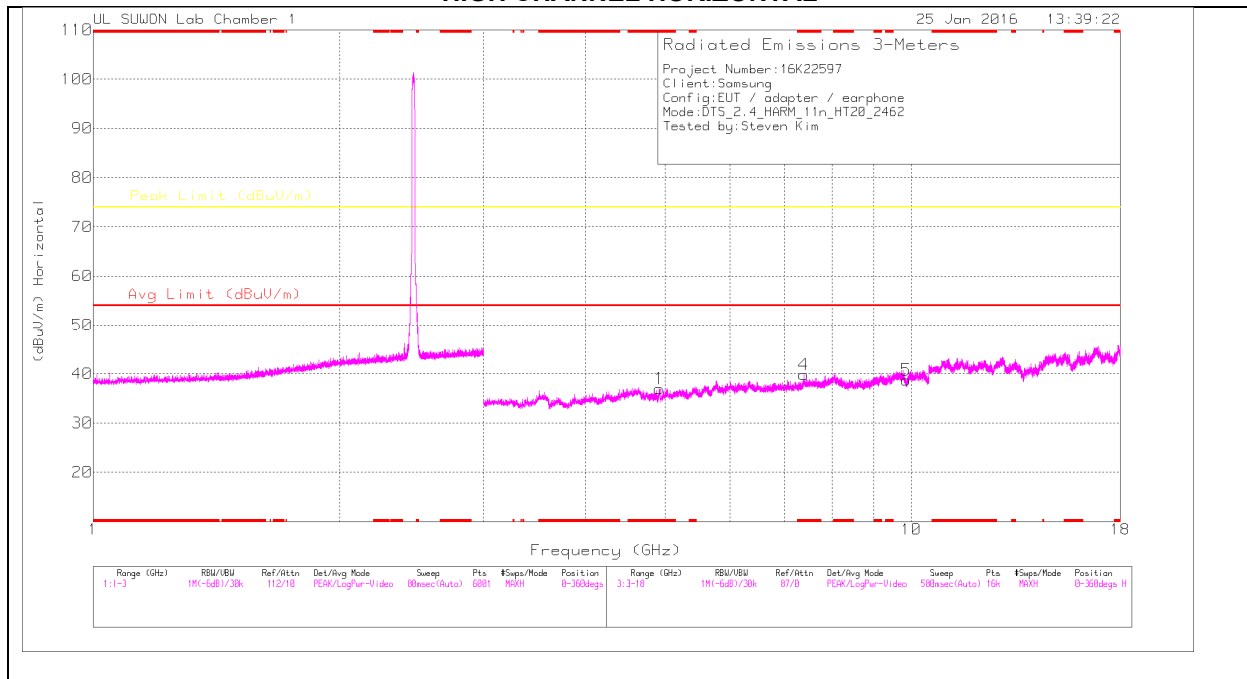
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_3	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.875	49.88	PK2	34	-34	0	49.88	-	-	74	-24.12	342	351	H
* 4.874	36.62	MAv1	34	-34	.34	36.96	54	-17.04	-	-	342	351	H
* 4.875	51.55	PK2	34	-34	0	51.55	-	-	74	-22.45	208	290	V
* 4.874	38.58	MAv1	34	-34	.34	38.92	54	-15.08	-	-	208	290	V
* 7.308	51.62	PK2	35.7	-30.9	0	56.42	-	-	74	-17.58	109	101	V
* 7.311	35.99	MAv1	35.7	-30.9	.34	41.13	54	-12.87	-	-	109	101	V
* 7.308	47.86	PK2	35.7	-30.9	0	52.66	-	-	74	-21.34	170	241	H
* 7.309	34.11	MAv1	35.7	-30.9	.34	39.25	54	-14.75	-	-	170	241	H

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

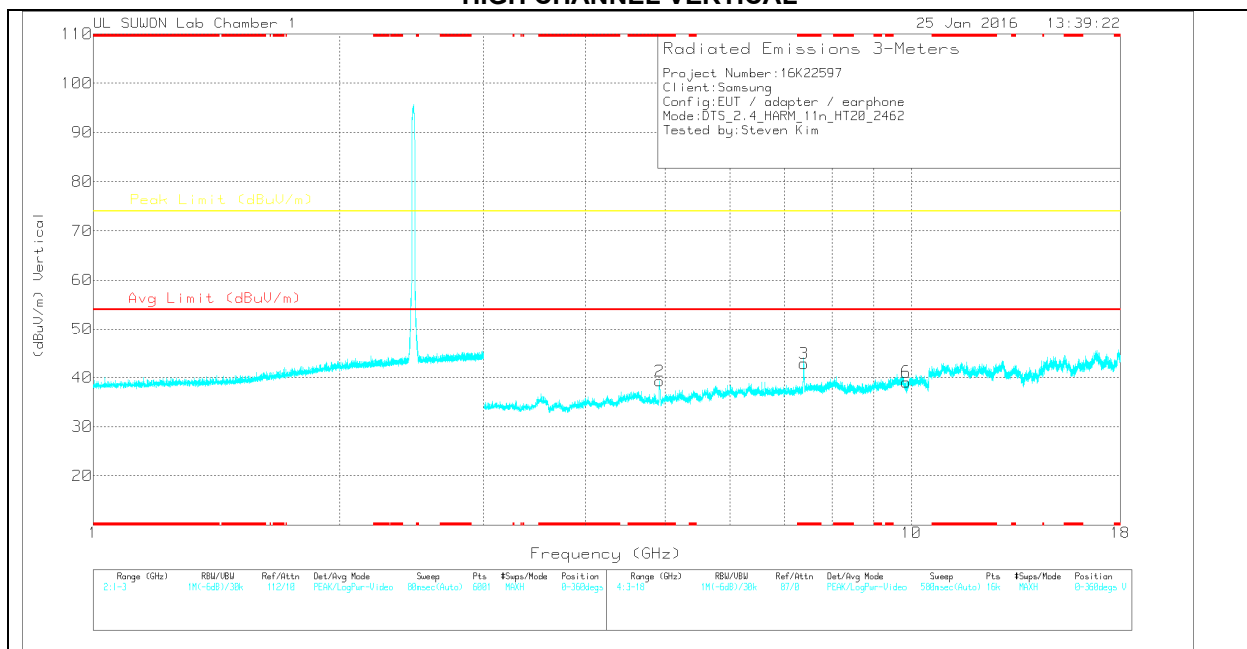
PK2 - KDB558074 Method: Maximum Peak

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(001687 17)_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	* 4.92	36.96	PK	34	-34	0	36.96	-	-	74	-37.04	0-360	200	H
4	* 7.386	34.72	PK	35.8	-30.7	0	39.82	-	-	74	-34.18	0-360	200	H
5	9.847	29.02	PK	37.3	-27.6	0	38.72	-	-	74	-35.28	0-360	100	H
2	* 4.924	39.29	PK	34	-34	0	39.29	-	-	74	-34.71	0-360	100	V
3	* 7.387	37.75	PK	35.8	-30.7	0	42.85	-	-	74	-31.15	0-360	100	V
6	9.85	29.47	PK	37.3	-27.7	0	39.07	-	-	74	-34.93	0-360	100	V

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

PK – Peak detector

Radiated Emissions

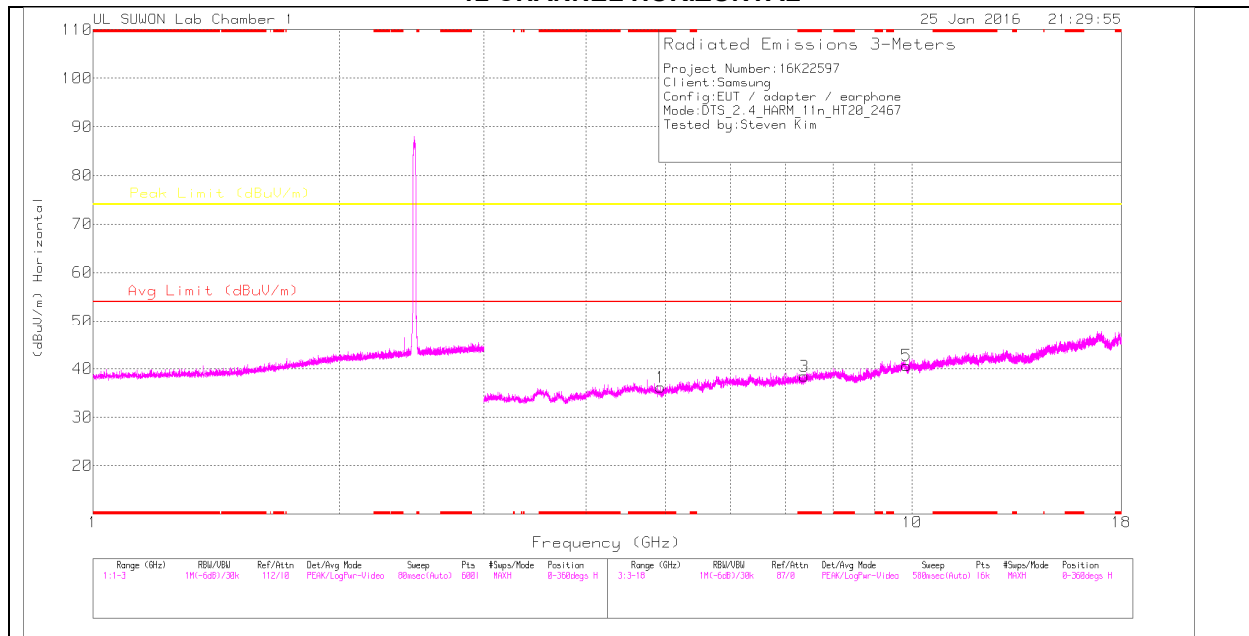
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001 68717)_1 50619	Path_3	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.925	49.48	PK2	34	-34	0	49.48	-	-	74	-24.52	339	340	H
* 4.924	36.27	MAv1	34	-34	.34	36.61	54	-17.39	-	-	339	340	H
* 4.925	51.83	PK2	34	-34	0	51.83	-	-	74	-22.17	218	118	V
* 4.924	38.97	MAv1	34	-34	.34	39.31	54	-14.69	-	-	218	118	V
* 7.391	52.4	PK2	35.8	-30.7	0	57.5	-	-	74	-16.5	104	100	V
* 7.386	37.61	MAv1	35.8	-30.7	.34	43.05	54	-10.95	-	-	104	100	V
* 7.383	49.03	PK2	35.8	-30.8	0	54.03	-	-	74	-19.97	162	365	H
* 7.389	34.75	MAv1	35.8	-30.7	.34	40.19	54	-13.81	-	-	162	365	H

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

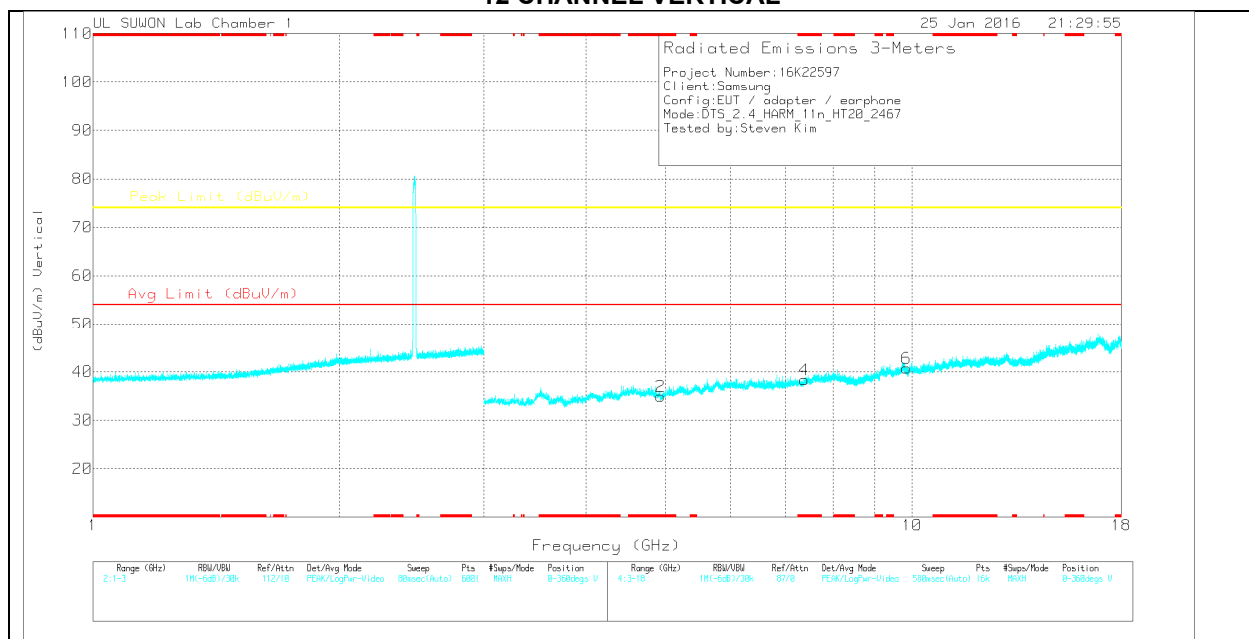
PK2 - KDB558074 Method: Maximum Peak

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

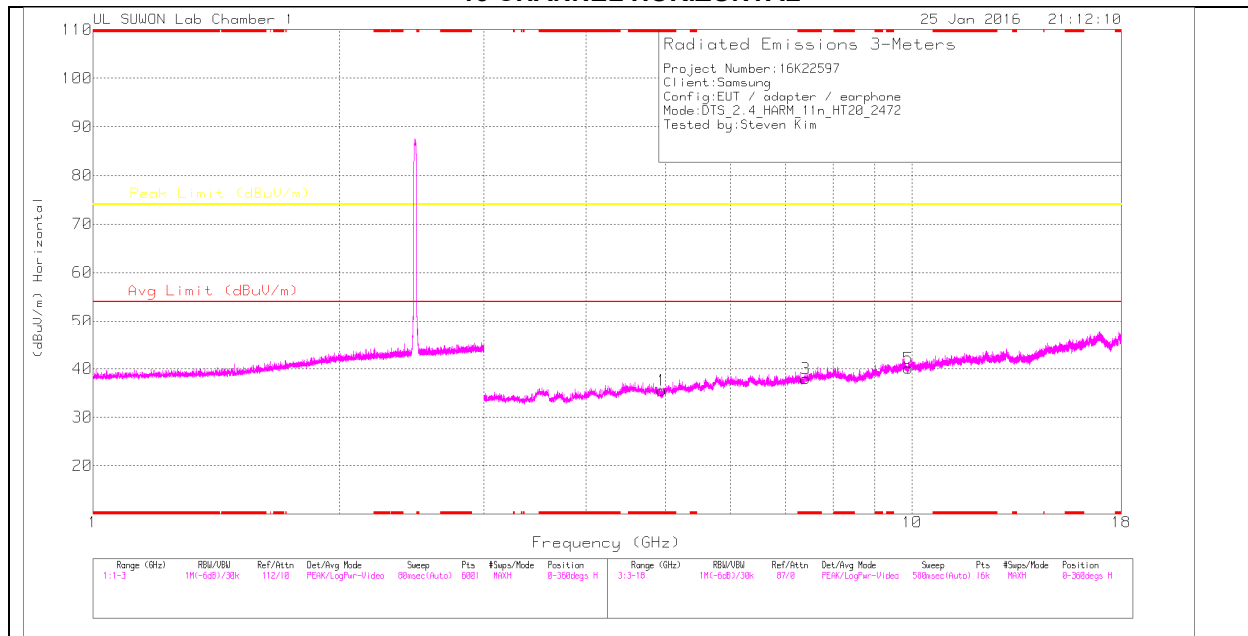
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 17)_150619	Path_3	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.934	36.21	PK	34	-34	0	36.21	-	-	74	-37.79	0-360	100	H
3	* 7.385	33.32	PK	35.8	-30.7	0	38.42	-	-	74	-35.58	0-360	100	H
5	9.845	30.88	PK	37.3	-27.5	0	40.68	-	-	74	-33.32	0-360	100	H
2	* 4.93	34.92	PK	34	-34	0	34.92	-	-	74	-39.08	0-360	200	V
4	* 7.389	33.27	PK	35.8	-30.7	0	38.37	-	-	74	-35.63	0-360	100	V
6	9.845	31	PK	37.3	-27.5	0	40.8	-	-	74	-33.2	0-360	100	V

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

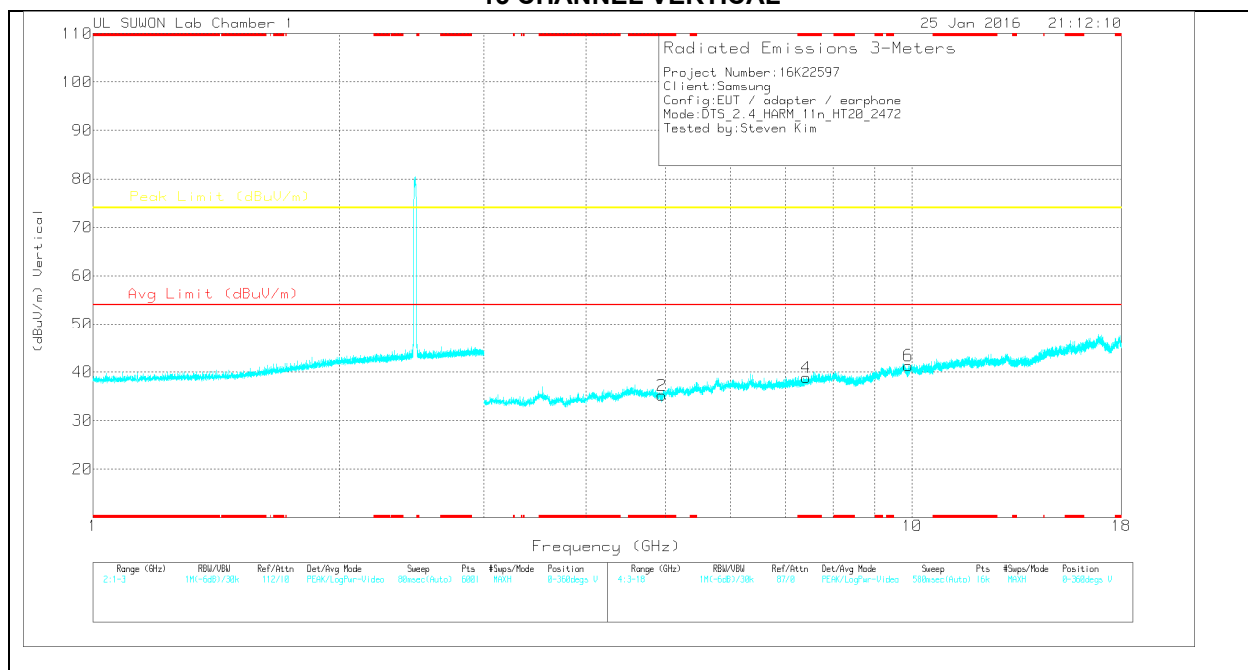
PK – Peak detector

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(001687 17)_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	* 4.946	35.57	PK	34	-34	0	35.57	-	-	74	-38.43	0-360	100	H
3	* 7.414	32.9	PK	35.8	-30.7	0	38	-	-	74	-36	0-360	100	H
5	9.889	30.66	PK	37.3	-27.8	0	40.16	-	-	74	-33.84	0-360	100	H
2	* 4.943	35.15	PK	34	-34	0	35.15	-	-	74	-38.85	0-360	100	V
4	* 7.42	33.7	PK	35.8	-30.7	0	38.8	-	-	74	-35.2	0-360	100	V
6	9.888	31.81	PK	37.3	-27.8	0	41.31	-	-	74	-32.69	0-360	200	V

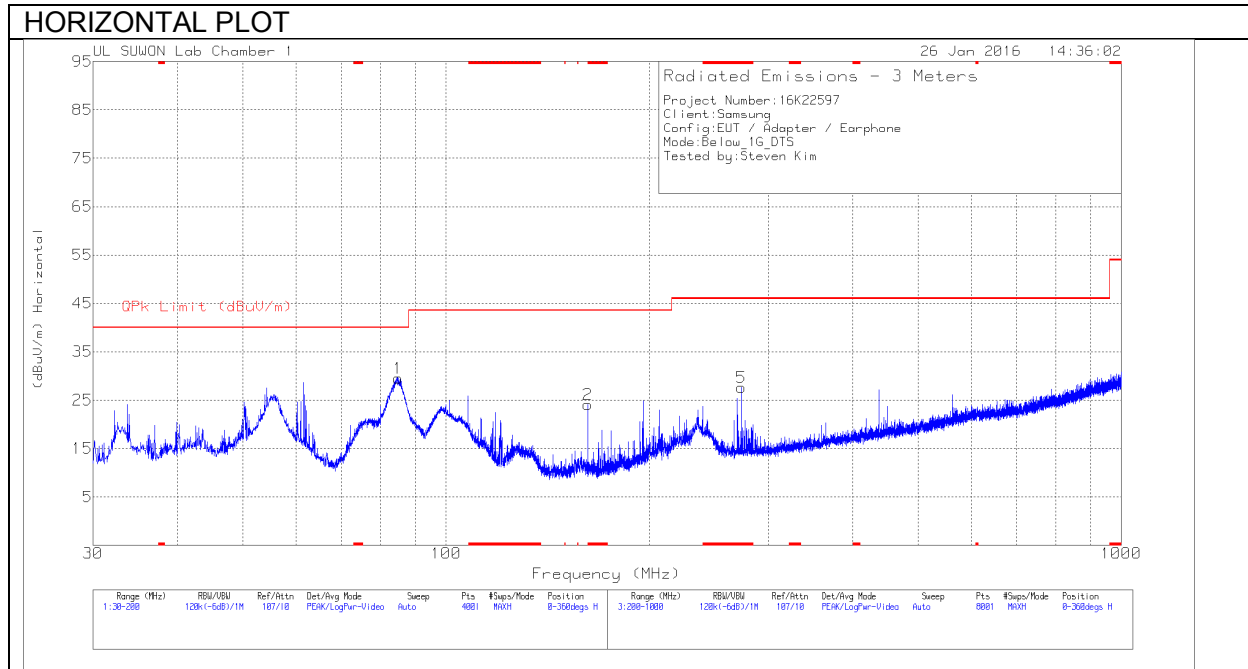
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK – Peak detector

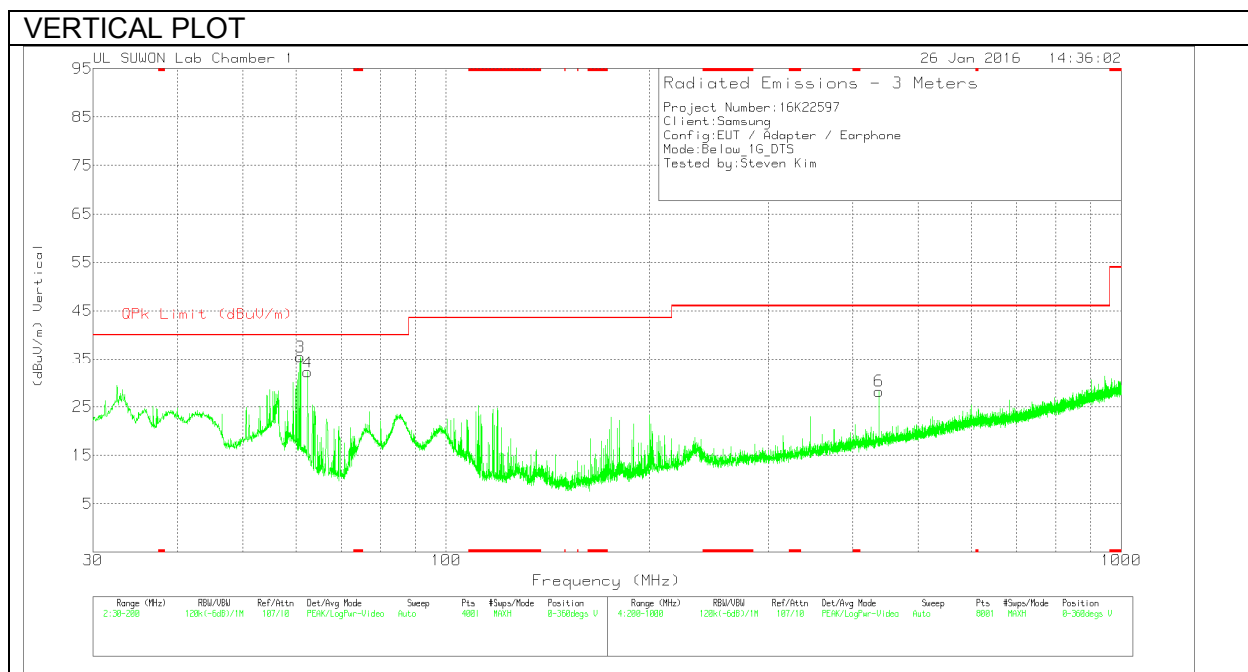
Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

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

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163-750	Bi-Log	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	84.91	50.83	Pk	8.2	-29.5	29.53	40	-10.47	0-360	200	H
2	* 162.2175	44	Pk	8.6	-28.5	24.1	43.52	-19.42	0-360	100	H
3	60.8125	52.95	Pk	12.4	-29.9	35.45	40	-4.55	0-360	100	V
4	62.4275	50.18	Pk	11.9	-29.9	32.18	40	-7.82	0-360	300	V
5	* 273.7	42.46	Pk	12.8	-27.6	27.66	46.02	-18.36	0-360	100	H
6	437.5	38.71	Pk	16.1	-26.6	28.21	46.02	-17.81	0-360	100	V

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

Pk - 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 C63.10 2009.

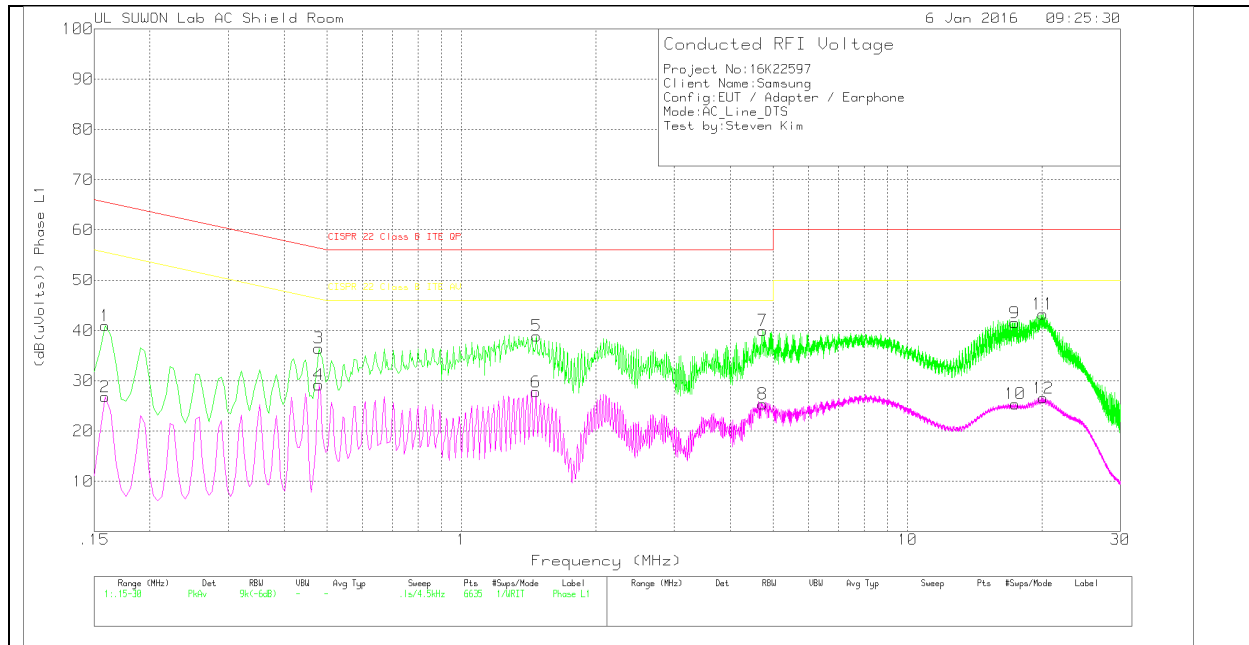
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

WORST EMISSIONS

LINE 1 PLOT



LINE 1 RESULTS

Trace Markers

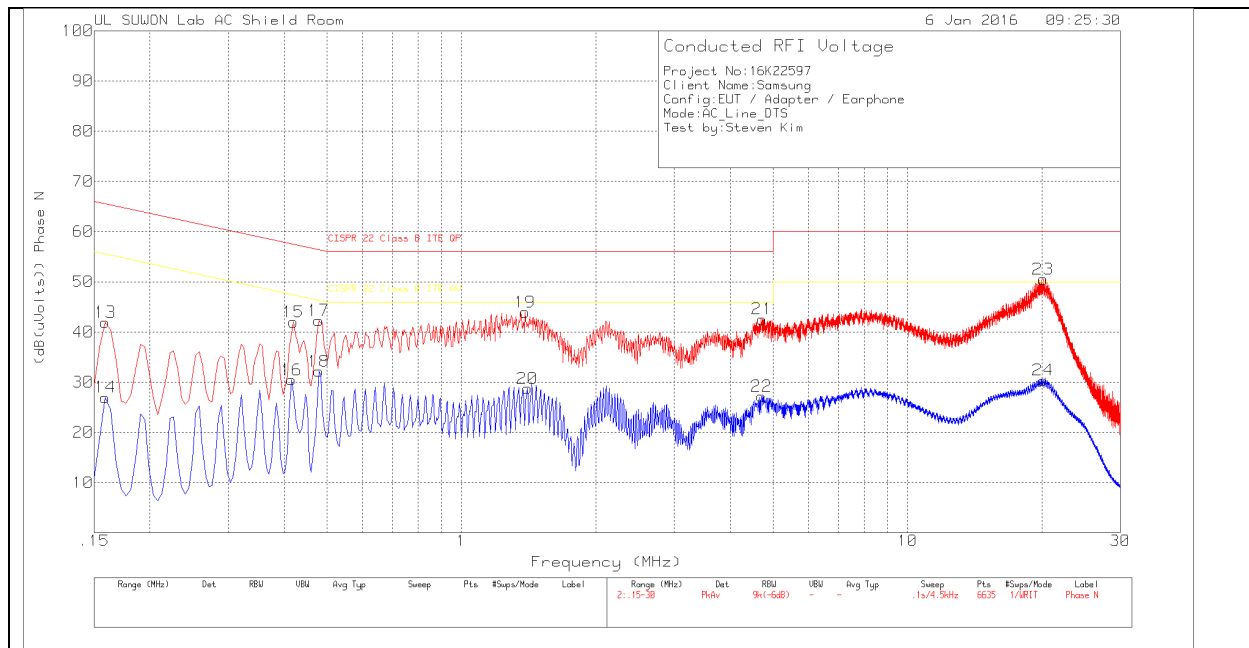
Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101837_w ith ex- cord_L1	CE Shield Room	Corrected Reading (dB(uVolts)	CISPR 22 Class B ITE QP	Margin (dB)	CISPR 22 Class B ITE AV	Margin (dB)
1	.159	30.96	Pk	10	0	40.96	65.52	-24.56	-	-
2	.159	16.79	Av	10	0	26.79	-	-	55.52	-28.73
3	.4785	26.3	Pk	10.2	0	36.5	56.37	-19.87	-	-
4	.4785	19.02	Av	10.2	0	29.22	-	-	46.37	-17.15
5	1.473	29.03	Pk	9.8	.1	38.93	56	-17.07	-	-
6	1.4685	17.88	Av	9.8	.1	27.78	-	-	46	-18.22
7	4.7355	30.1	Pk	9.8	.1	40	56	-16	-	-
8	4.731	15.49	Av	9.8	.1	25.39	-	-	46	-20.61
9	17.403	31.06	Pk	10.3	.2	41.56	60	-18.44	-	-
10	17.43	14.92	Av	10.3	.2	25.42	-	-	50	-24.58
11	20.121	32.68	Pk	10.4	.2	43.28	60	-16.72	-	-
12	20.1345	15.97	Av	10.4	.2	26.57	-	-	50	-23.43

Pk - Peak detector

Av - Average detection

LINE 2 PLOT



LINE 2 RESULTS

Trace Markers

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	.159	31.93	Pk	10	0	41.93	65.52	-23.59	-	-
14	.159	17	Av	10	0	27	-	-	55.52	-28.52
15	.42	31.9	Pk	10.1	0	42	57.45	-15.45	-	-
16	.4155	20.37	Av	10.1	0	30.47	-	-	47.54	-17.07
17	.4785	32.2	Pk	10.1	0	42.3	56.37	-14.07	-	-
18	.4785	22.05	Av	10.1	0	32.15	-	-	46.37	-14.22
19	1.3875	34.04	Pk	9.8	.1	43.94	56	-12.06	-	-
20	1.4055	18.85	Av	9.8	.1	28.75	-	-	46	-17.25
21	4.722	32.68	Pk	9.8	.1	42.58	56	-13.42	-	-
22	4.7085	17.3	Av	9.8	.1	27.2	-	-	46	-18.8
23	20.13	39.71	Pk	10.6	.2	50.51	60	-9.49	-	-
24	20.1345	19.61	Av	10.6	.2	30.41	-	-	50	-19.59

Pk - Peak detector

Av - Average detection

Quasi-Peak Emissions

Phase N .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	101837_wit h 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)
20.3226	33.76	Qp	10.6	.2	44.56	60	-15.44	-	-

Qp - Quasi-Peak detector