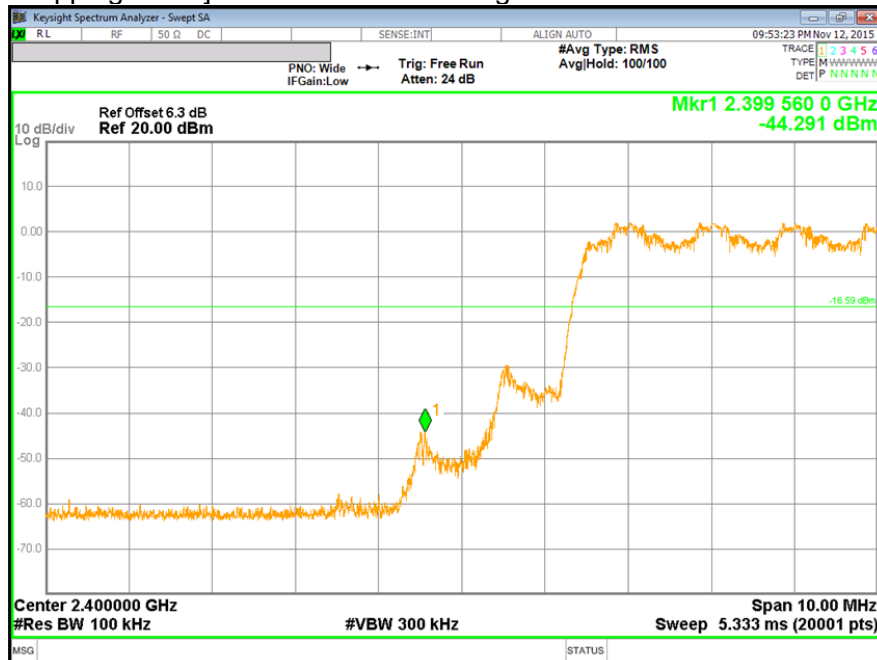
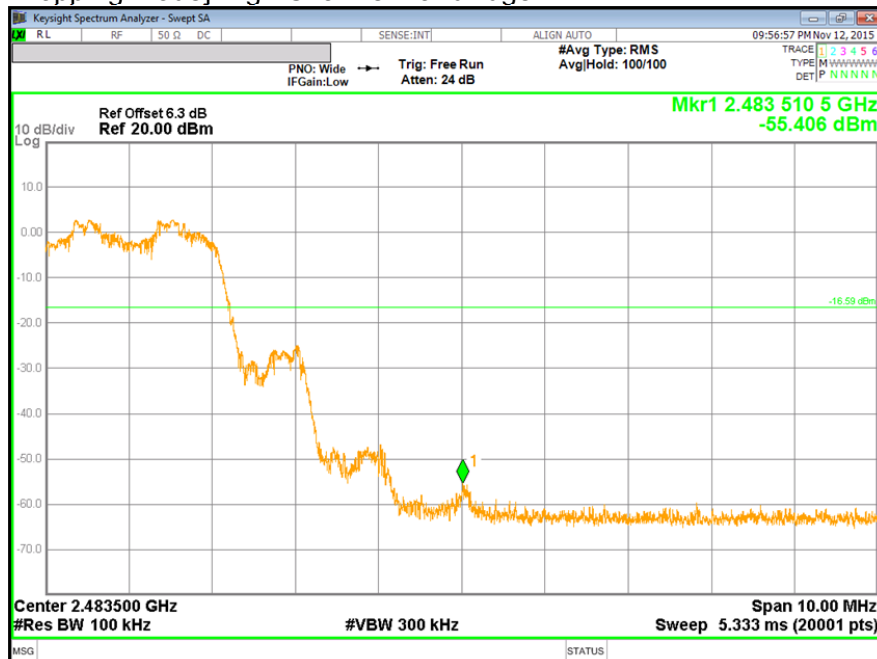


BandEdge Emission at PI/4-DQPSK Hopping Mode

[PI/4-DQPSK Hopping Mode] Low Channel BandEdge



[PI/4-DQPSK Hopping Mode] High Channel BandEdge

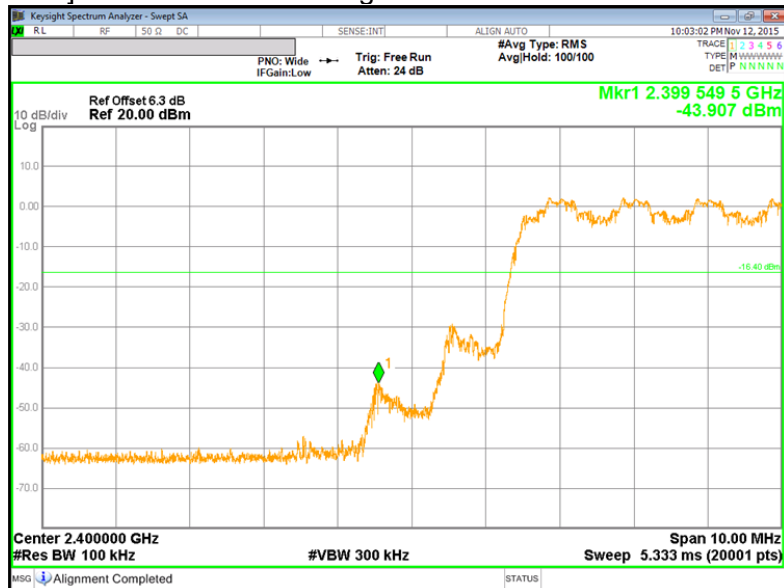


8PSK Mode

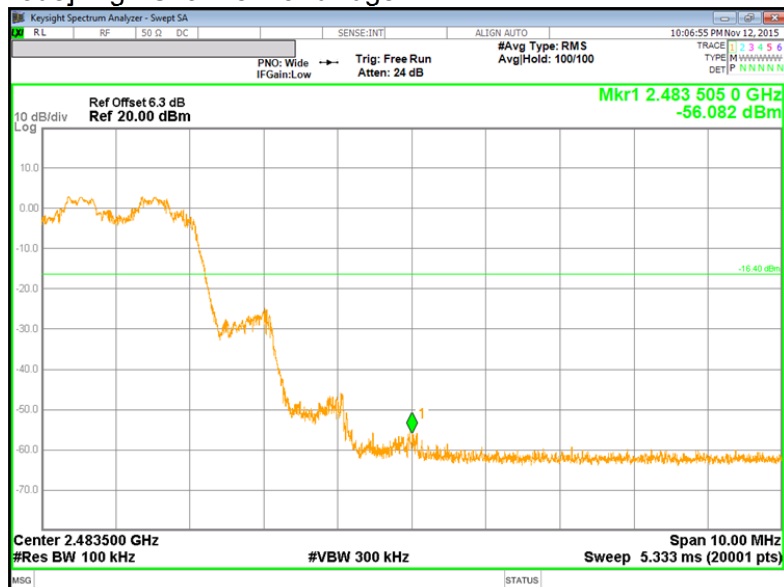


BandEdge Emission at 8PSK Hopping Mode

[8PSK Hopping Mode] Low Channel BandEdge



[8PSK Hopping Mode] High Channel BandEdge



9. RADIATED TEST RESULTS

9.1. 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. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For band edge measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 1/T (on time) for average measurement.

$GFSK = 1/T = 1 / 0.0029S = 350Hz$.

The spectrum from 1GHzHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

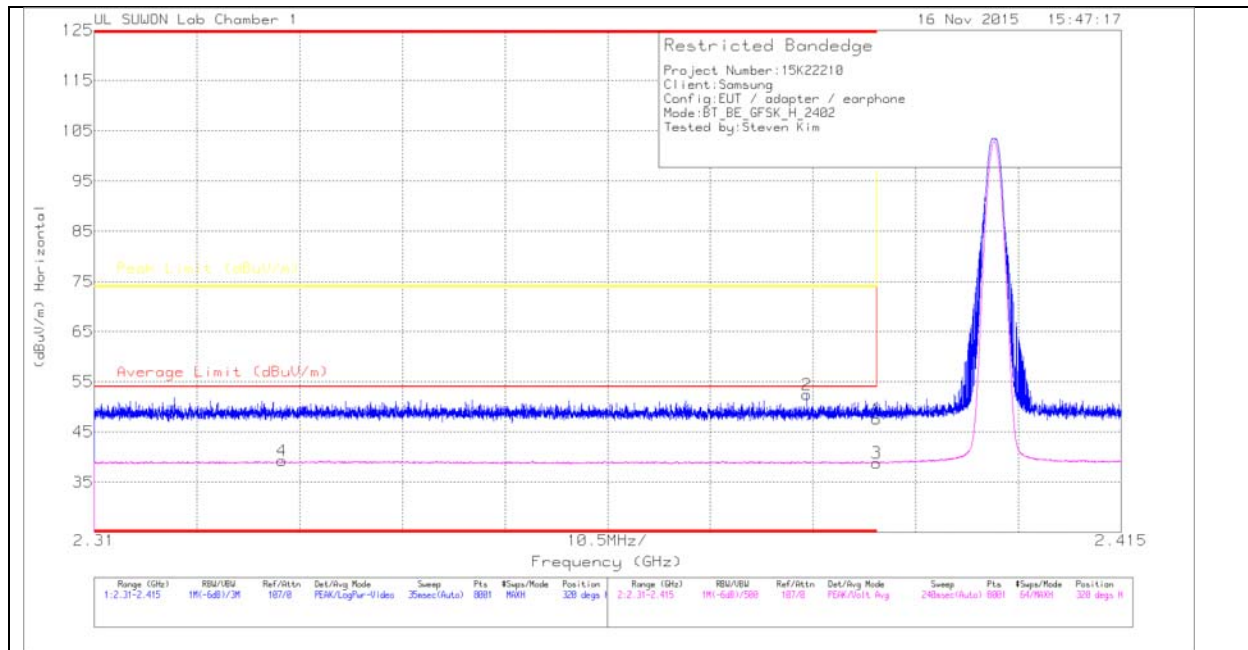
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

9.2. TRANSMITTER ABOVE 1 GHz

9.2.1. BASIC DATA RATE GFSK MODULATION

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

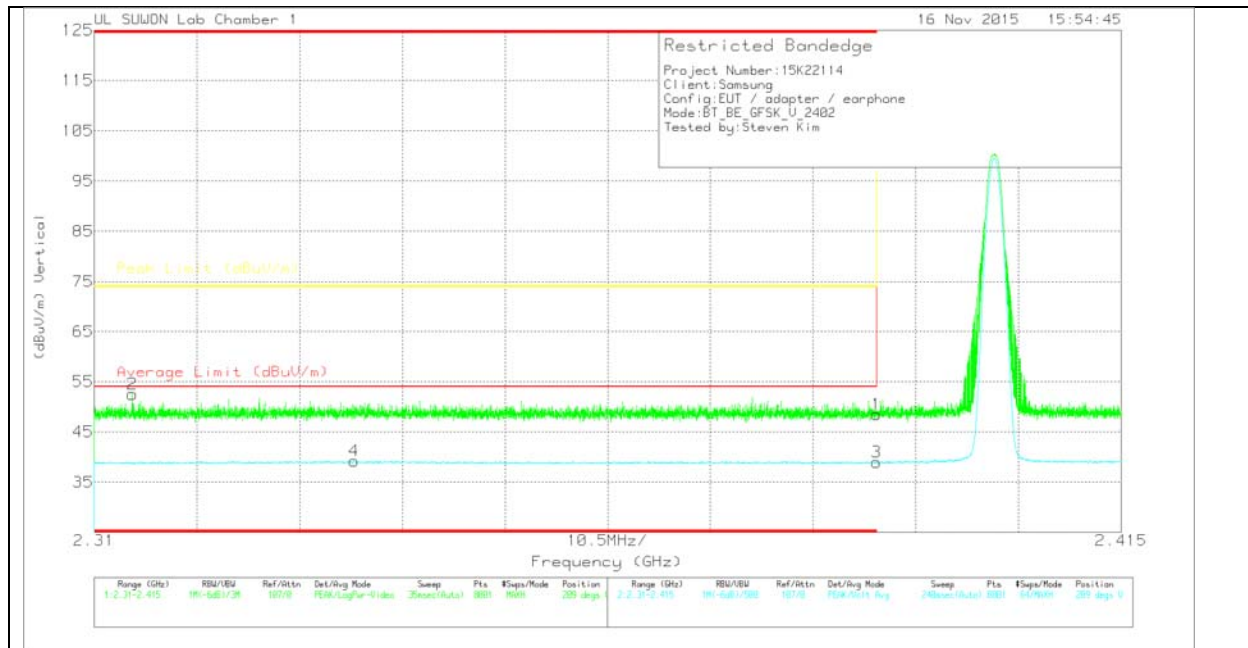
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168 717)_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	* 2.39	44.16	Pk	31.8	-28.4	0	47.56	-	-	74	-26.44	320	105	H
2	* 2.383	49.14	Pk	31.8	-28.5	0	52.44	-	-	74	-21.56	320	105	H
3	* 2.39	35.44	V1TV	31.8	-28.4	0	38.84	54	-15.16	-	-	320	105	H
4	* 2.329	36.06	V1TV	31.7	-28.5	0	39.26	54	-14.74	-	-	320	105	H

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

Pk - Peak detector

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

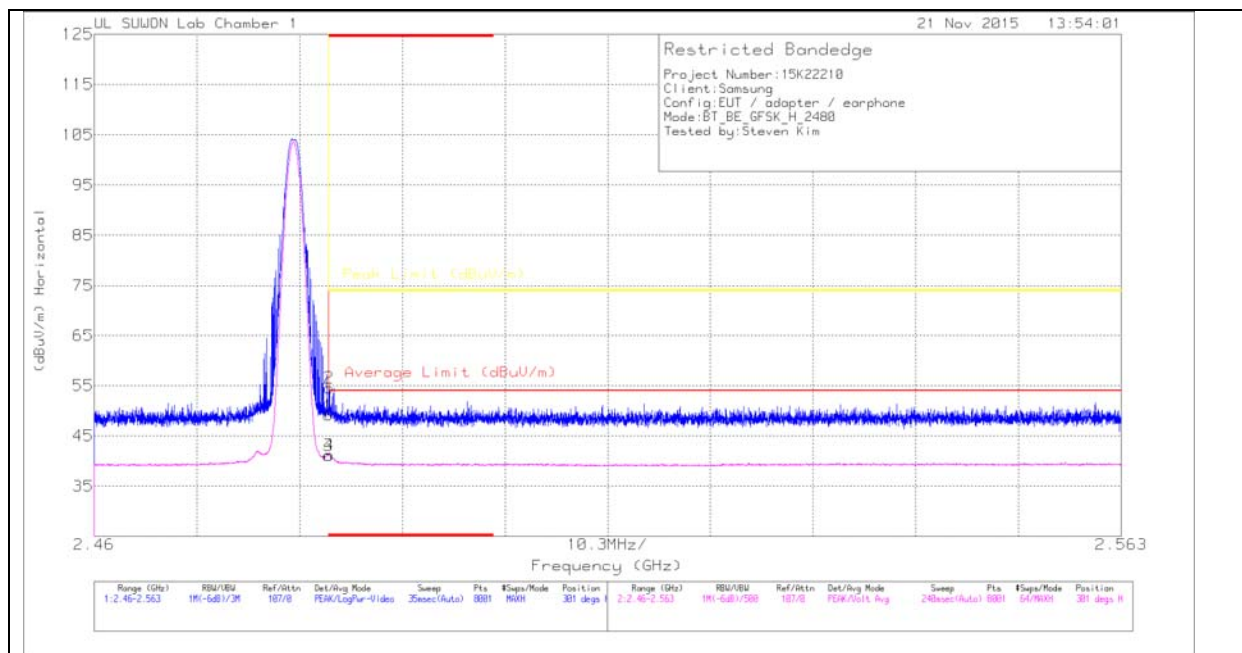
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168 717)_150619	Path_2	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	45.1	Pk	31.8	-28.4	0	48.5	-	-	74	-25.5	209	383	V
2	* 2.314	49.31	Pk	31.7	-28.5	0	52.51	-	-	74	-21.49	209	383	V
3	* 2.39	35.59	V1TV	31.8	-28.4	0	38.99	54	-15.01	-	-	209	383	V
4	* 2.337	36.03	V1TV	31.7	-28.5	0	39.23	54	-14.77	-	-	209	383	V

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

Pk - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

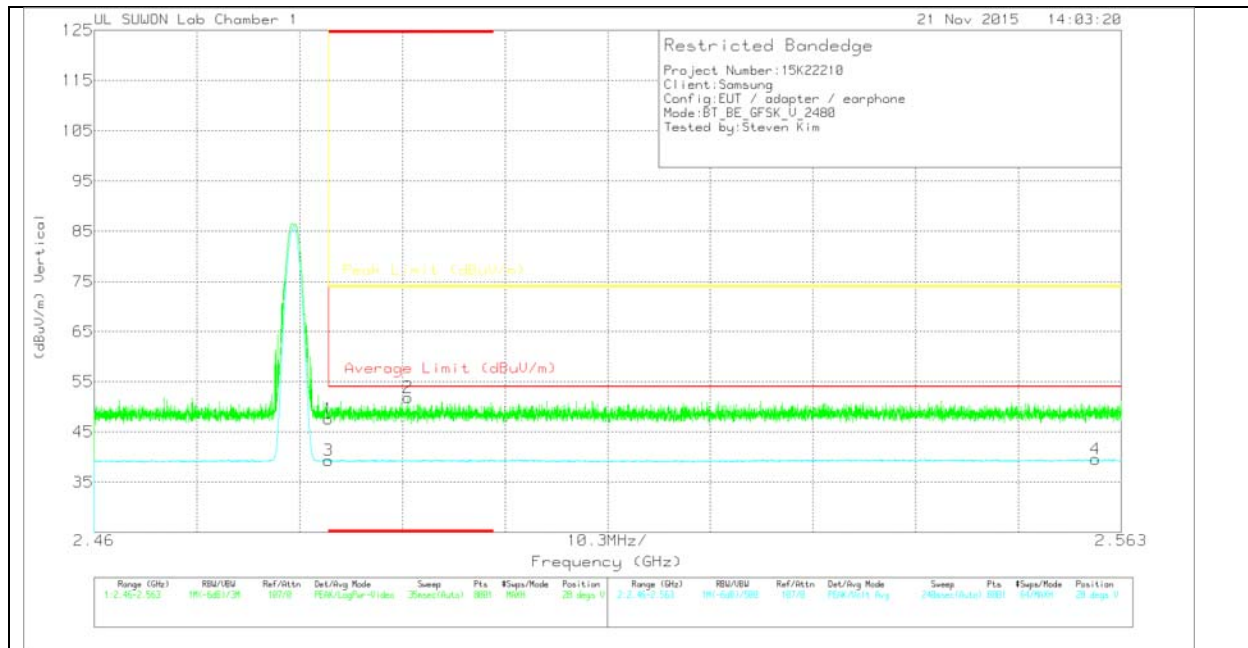
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168 717)_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	45.45	Pk	32	-28.3	0	49.15	-	-	74	-24.85	301	100	H
2	* 2.484	50.85	Pk	32	-28.3	0	54.55	-	-	74	-19.45	301	100	H
3	* 2.484	37.44	V1TV	32	-28.3	0	41.14	54	-12.86	-	-	301	100	H
4	* 2.484	37.49	V1TV	32	-28.3	0	41.19	54	-12.81	-	-	301	100	H

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

Pk - Peak detector

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

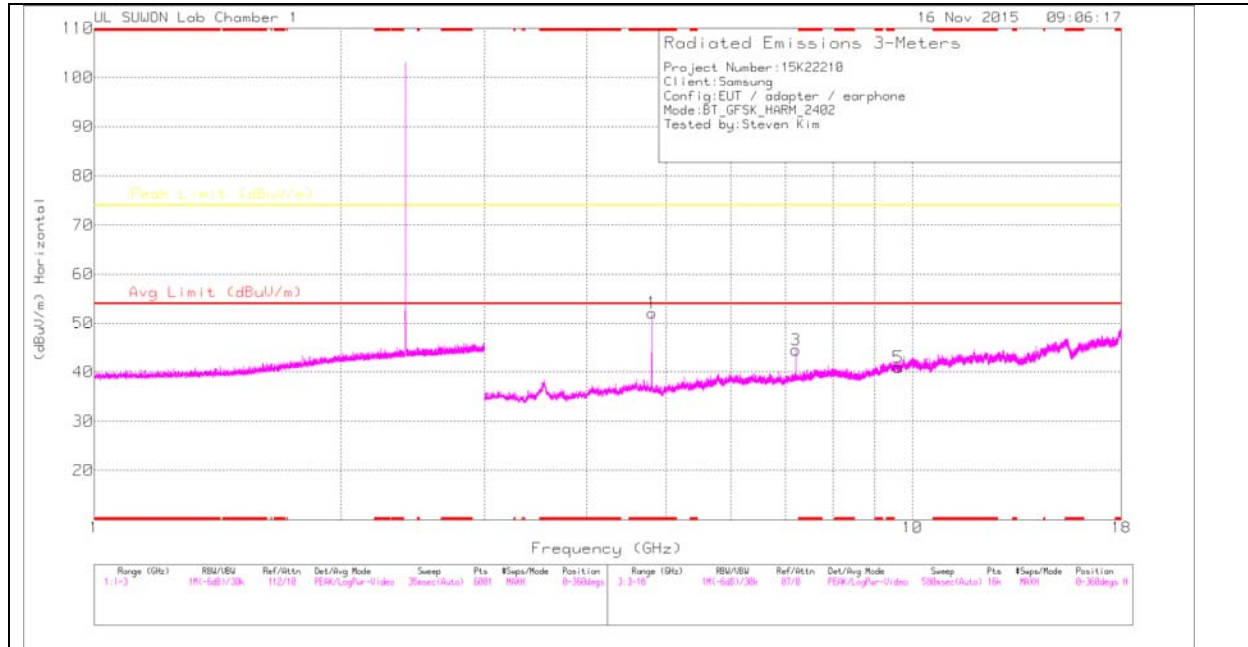
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168 717)_150619	Path_2	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	43.92	Pk	32	-28.3	0	47.62	-	-	74	-26.38	28	139	V
2	* 2.491	48.16	Pk	32	-28.3	0	51.86	-	-	74	-22.14	28	139	V
3	* 2.484	35.64	V1TV	32	-28.3	0	39.34	54	-14.66	-	-	28	139	V
4	2.56	35.8	V1TV	32	-28.2	0	39.6	54	-14.4	-	-	28	139	V

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

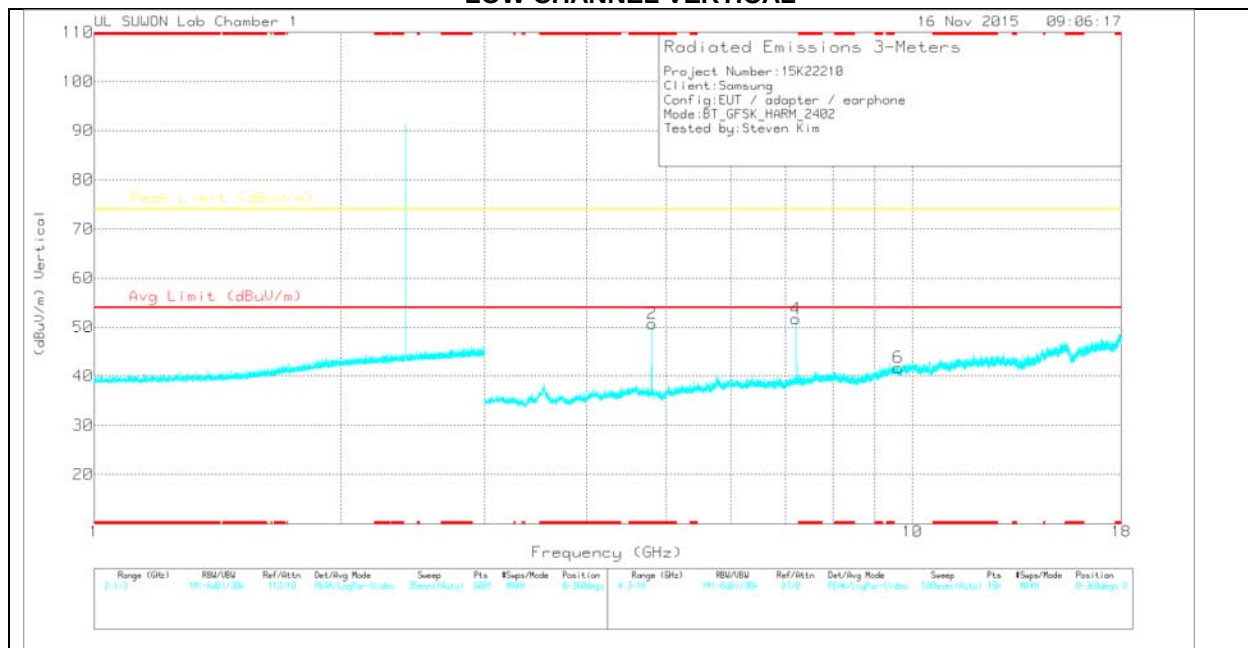
Pk - Peak detector

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(0016 8717)_150 619	Path_3	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.804	51.16	PK	34	-33	52.16	-	-	74	-21.84	0-360	100	H
3	7.206	38.78	PK	35.7	-30	44.48	-	-	74	-29.52	0-360	100	H
5	9.609	30.54	PK	37	-26.6	40.94	-	-	74	-33.06	0-360	200	H
2	* 4.804	49.8	PK	34	-33	50.8	-	-	74	-23.2	0-360	200	V
4	7.206	46.08	PK	35.7	-30	51.78	-	-	74	-22.22	0-360	100	V
6	9.609	31.32	PK	37	-26.6	41.72	-	-	74	-32.28	0-360	100	V

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

PK – Peak Detector

Radiated Emissions

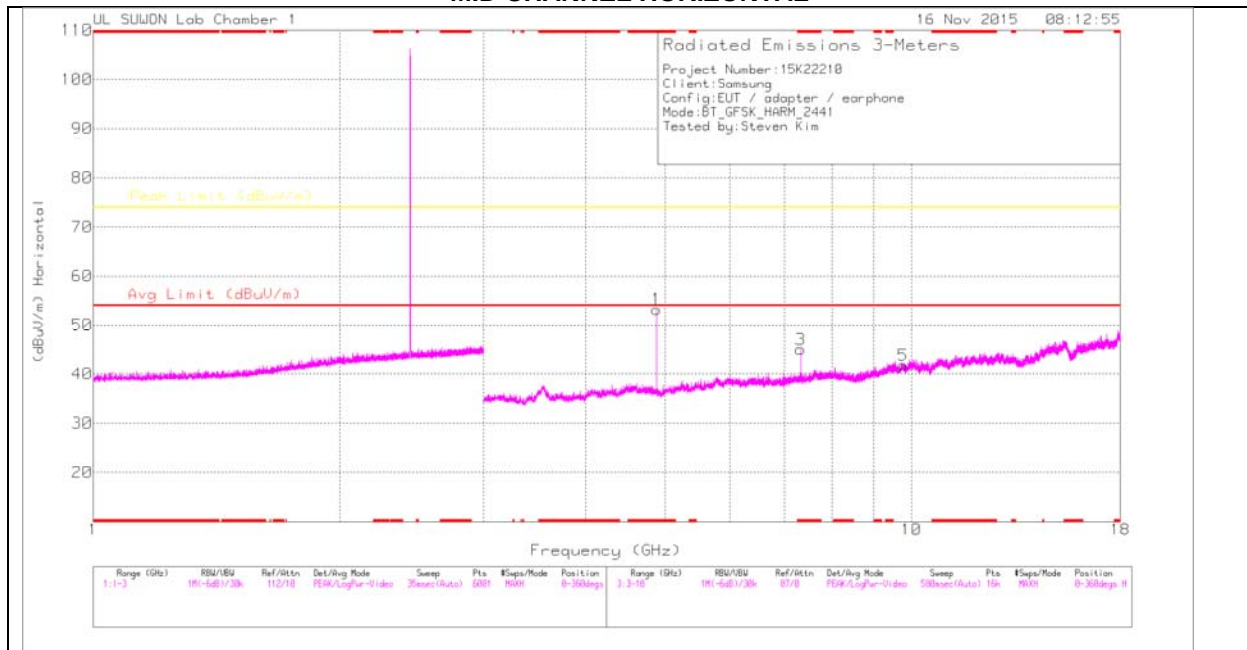
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_3	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.804	55.73	PK2	34	-33	56.73	-	-	74	-17.27	13	100	H
* 4.804	51.64	VA1T	34	-33	52.64	54	-1.36	-	-	13	100	H
7.205	47.03	PK2	35.7	-30	52.73	-	-	74	-21.27	342	293	H
7.206	37.66	VA1T	35.7	-30	43.36	-	-	-	-	342	293	H
* 4.804	54.94	PK2	34	-33	55.94	-	-	74	-18.06	218	214	V
* 4.804	50.46	VA1T	34	-33	51.46	54	-2.54	-	-	218	214	V
7.206	52.61	PK2	35.7	-30	58.31	-	-	74	-15.69	266	100	V
7.206	47.6	VA1T	35.7	-30	53.3	-	-	-	-	266	100	V

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

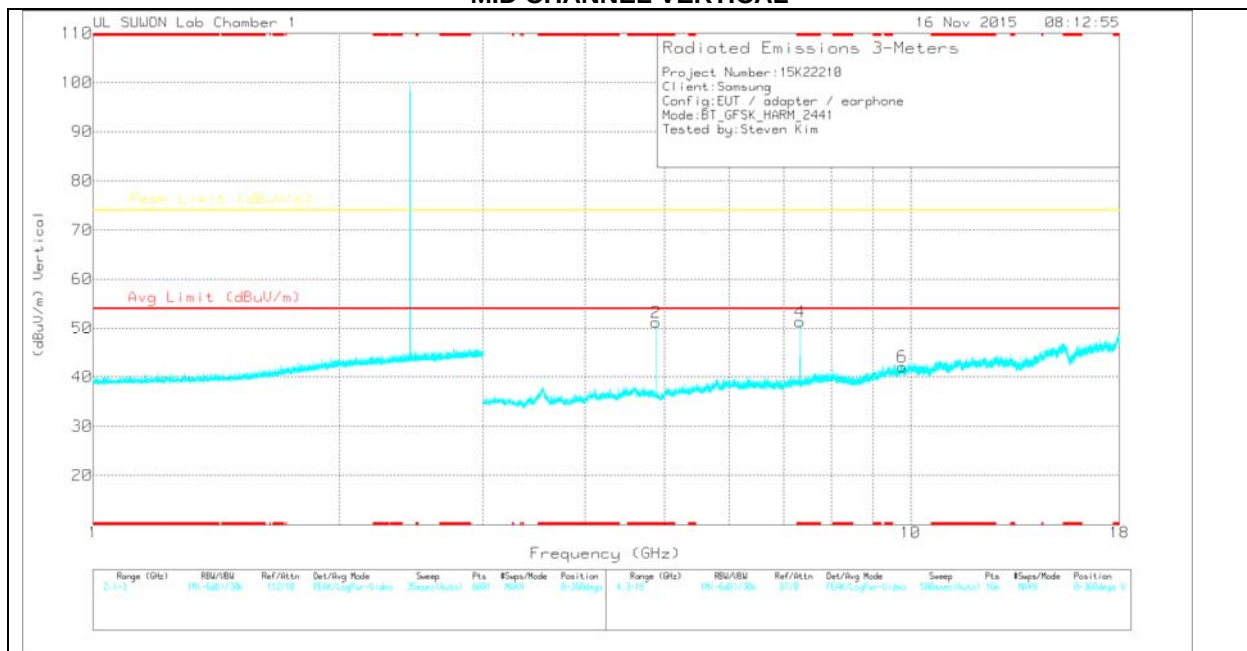
PK2 - KDB558074 Method: Maximum Peak

VA1T - FHSS: Linear Voltage Average $V_B = 1/T_{on}$ where: T_{on} is transmit duration

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(0016 8717)_150 619	Path_3	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.882	52.36	PK	34	-33.1	53.26	-	-	74	-20.74	0-360	100	H
3	* 7.323	39.22	PK	35.8	-30	45.02	-	-	74	-28.98	0-360	100	H
5	9.765	30.58	PK	37.2	-26	41.78	-	-	74	-32.22	0-360	200	H
2	* 4.881	50.33	PK	34	-33.1	51.23	-	-	74	-22.77	0-360	200	V
4	* 7.323	45.57	PK	35.8	-30	51.37	-	-	74	-22.63	0-360	100	V
6	9.764	30.88	PK	37.2	-26	42.08	-	-	74	-31.92	0-360	100	V

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

PK – Peak Detector

Radiated Emissions

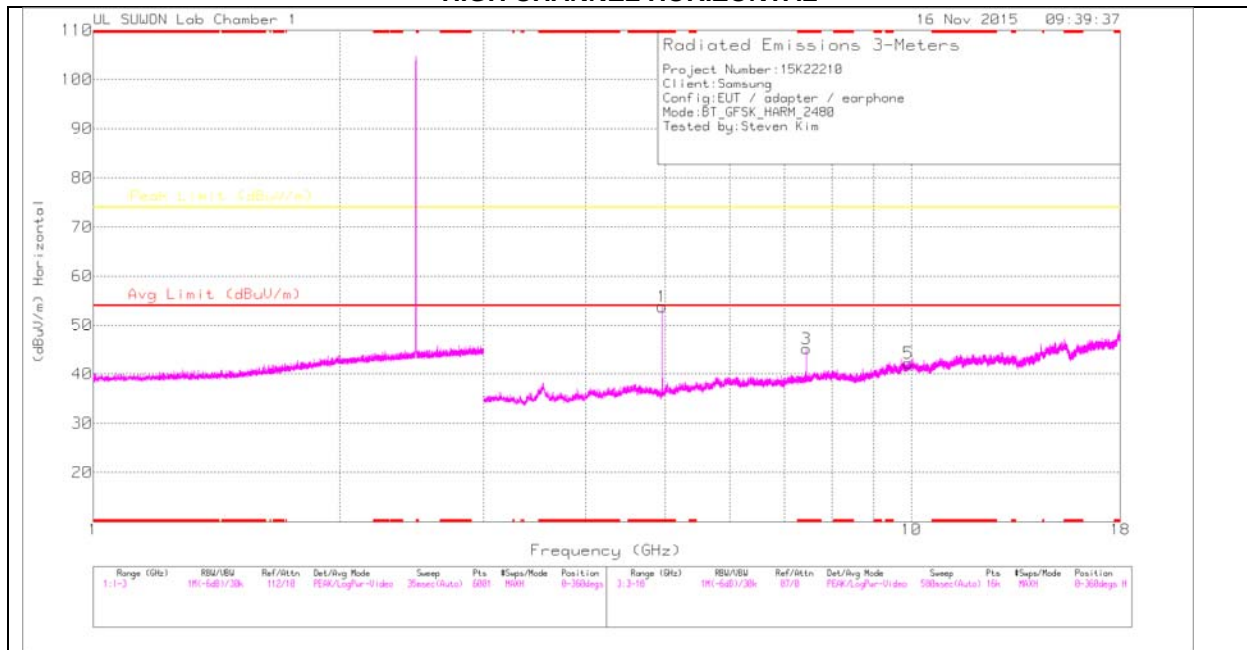
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_3	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.882	56.45	PK2	34	-33.1	57.35	-	-	74	-16.65	156	100	H
* 4.882	52.84	VA1T	34	-33.1	53.74	54	-26	-	-	156	100	H
* 7.323	48.82	PK2	35.8	-30	54.62	-	-	74	-19.38	353	219	H
* 7.323	41.05	VA1T	35.8	-30	46.85	54	-7.15	-	-	353	219	H
* 4.882	55.01	PK2	34	-33.1	55.91	-	-	74	-18.09	240	225	V
* 4.882	50.7	VA1T	34	-33.1	51.6	54	-2.4	-	-	240	225	V
* 7.323	51.93	PK2	35.8	-30	57.73	-	-	74	-16.27	263	100	V
* 7.323	46.79	VA1T	35.8	-30	52.59	54	-1.41	-	-	263	100	V

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

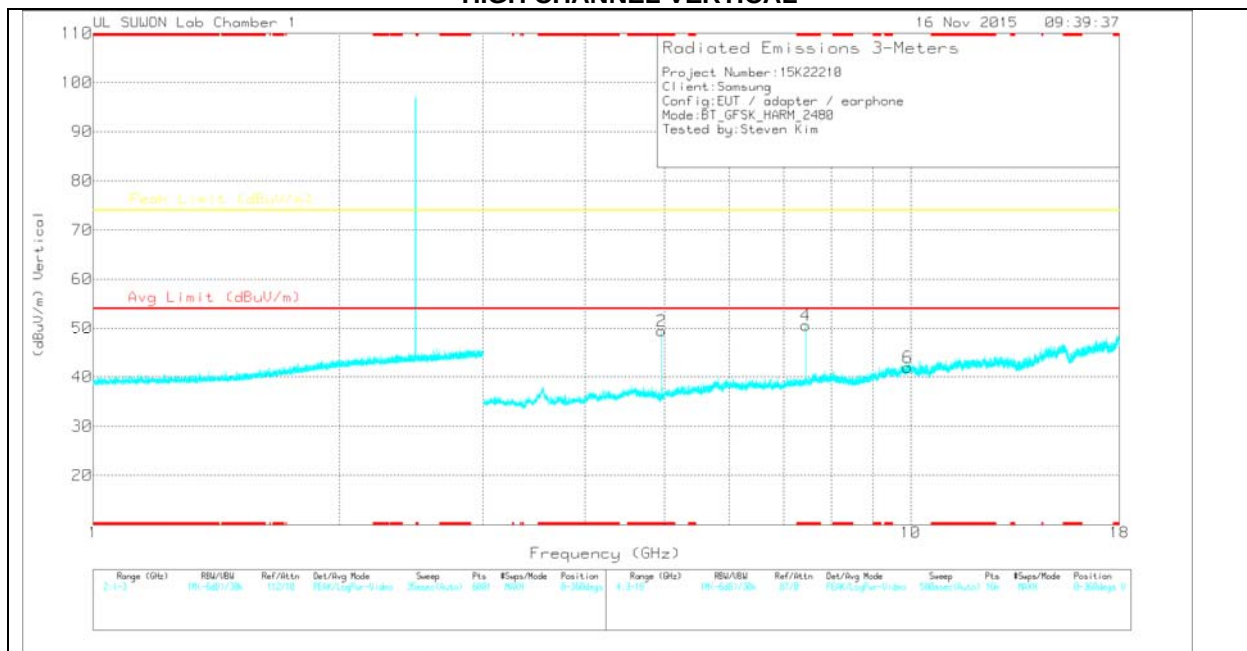
PK2 - KDB558074 Method: Maximum Peak

VA1T - FHSS: Linear Voltage Average $VB=1/Ton$ where: Ton is transmit duration

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(0016 8717)_150 619	Path_3	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.96	52.92	PK	34	-33.1	53.82	-	-	74	-20.18	0-360	100	H
3	* 7.44	39.22	PK	35.8	-29.9	45.12	-	-	74	-28.88	0-360	200	H
5	9.916	31.48	PK	37.4	-26.7	42.18	-	-	74	-31.82	0-360	100	H
2	* 4.96	48.55	PK	34	-33.1	49.45	-	-	74	-24.55	0-360	200	V
4	* 7.44	44.73	PK	35.8	-29.9	50.63	-	-	74	-23.37	0-360	100	V
6	9.925	31.03	PK	37.4	-26.5	41.93	-	-	74	-32.07	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	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.96	55.93	PK2	34	-33.1	56.83	-	-	74	-17.17	143	155	H
* 4.96	52.64	VA1T	34	-33.1	53.54	54	-46	-	-	143	155	H
* 7.441	49.15	PK2	35.8	-29.9	55.05	-	-	74	-18.95	338	350	H
* 7.44	41.51	VA1T	35.8	-29.9	47.41	54	-6.59	-	-	338	350	H
* 4.96	55.03	PK2	34	-33.1	55.93	-	-	74	-18.07	225	221	V
* 4.96	51.38	VA1T	34	-33.1	52.28	54	-1.72	-	-	225	221	V
* 7.44	50.52	PK2	35.8	-29.9	56.42	-	-	74	-17.58	247	353	V
* 7.44	44.29	VA1T	35.8	-29.9	50.19	54	-3.81	-	-	247	353	V

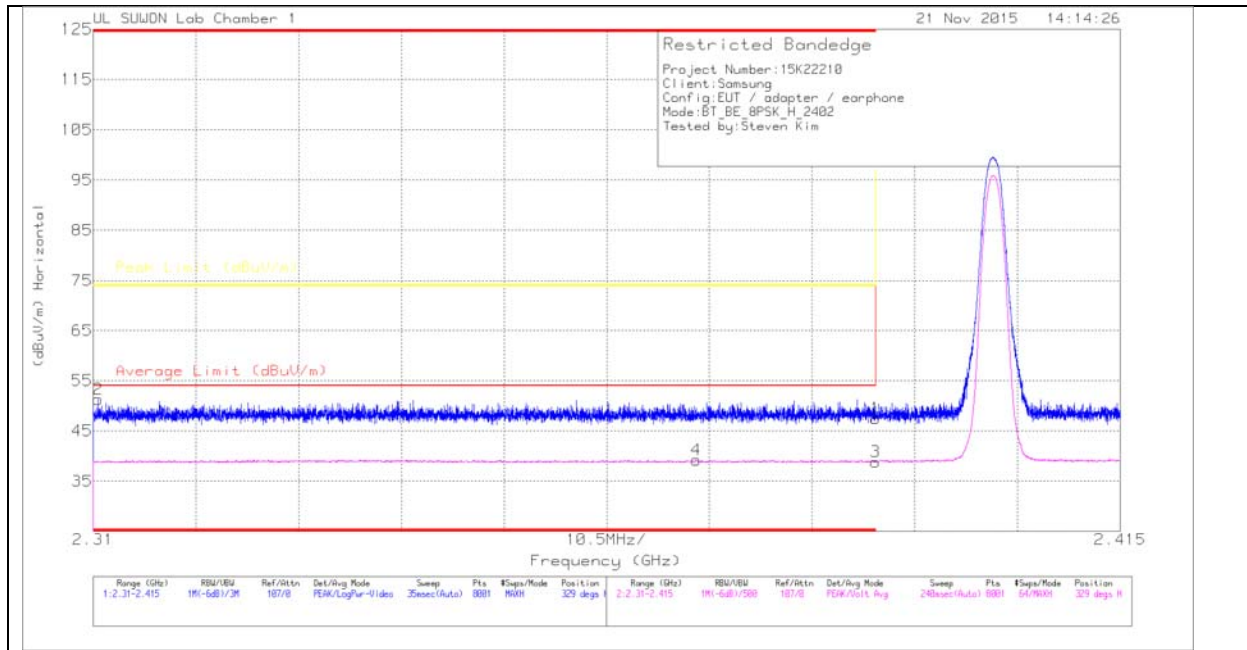
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

VA1T - FHSS: Linear Voltage Average $V_B = 1/T_{on}$ where: T_{on} is transmit duration

9.2.2. ENHANCED DATA RATE 8PSK MODULATION RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

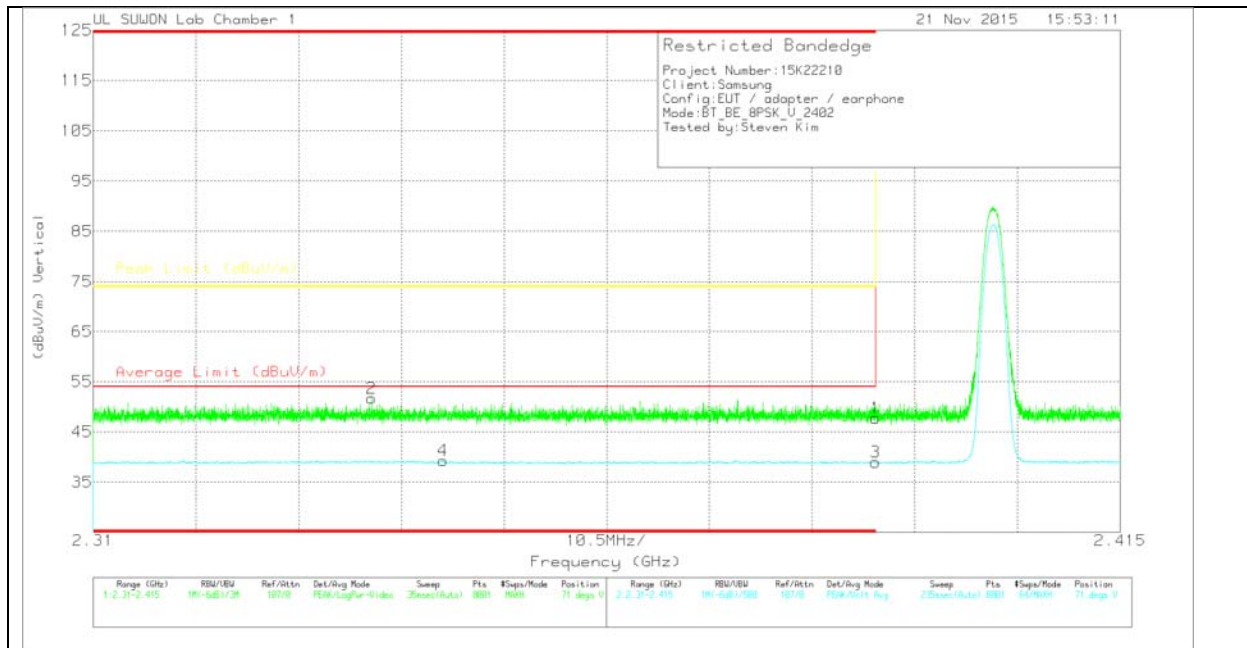
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168 717)_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	44.09	Pk	31.8	-28.4	0	47.49	-	-	74	-26.51	329	119	H
2	* 2.311	48.09	Pk	31.7	-28.5	0	51.29	-	-	74	-22.71	329	119	H
3	* 2.39	35.46	V1TV	31.8	-28.4	0	38.86	54	-15.14	-	-	329	119	H
4	* 2.372	35.93	V1TV	31.8	-28.5	0	39.23	54	-14.77	-	-	329	119	H

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

Pk - Peak detector

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

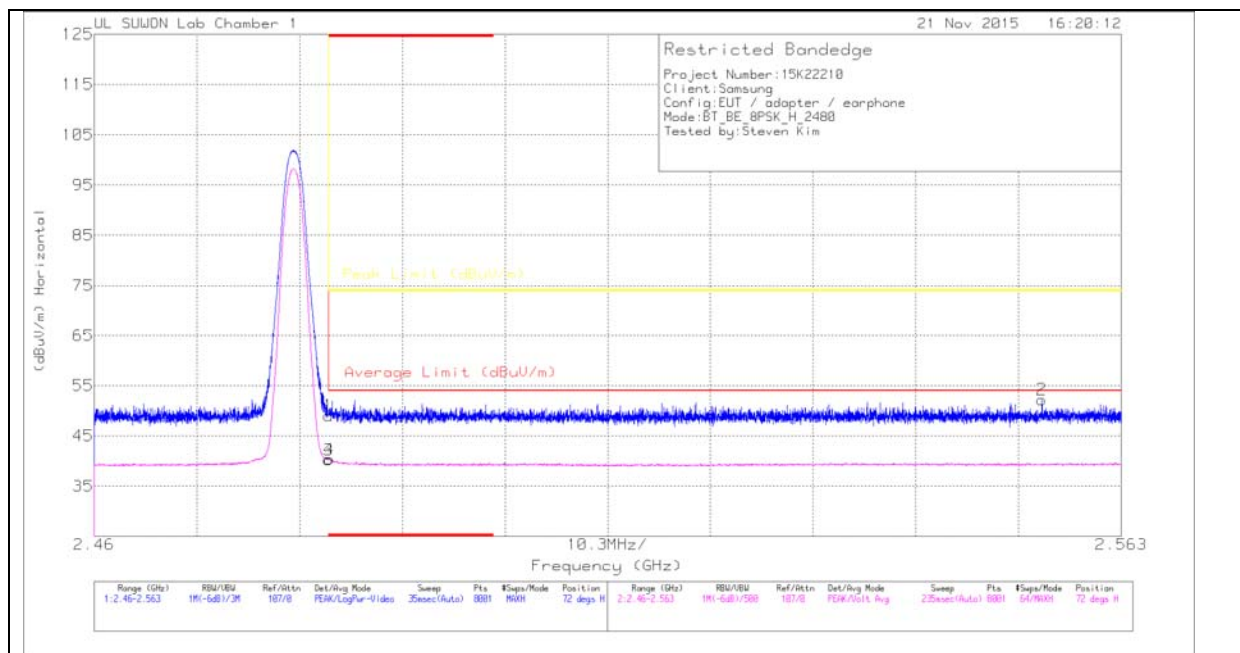
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168 717)_150619	Path_2	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	44.37	Pk	31.8	-28.4	0	47.77	-	-	74	-26.23	71	179	V
2	* 2.338	48.47	Pk	31.7	-28.5	0	51.67	-	-	74	-22.33	71	179	V
3	* 2.39	35.59	V1TV	31.8	-28.4	0	38.99	54	-15.01	-	-	71	179	V
4	* 2.346	36.12	V1TV	31.7	-28.5	0	39.32	54	-14.68	-	-	71	179	V

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

Pk - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

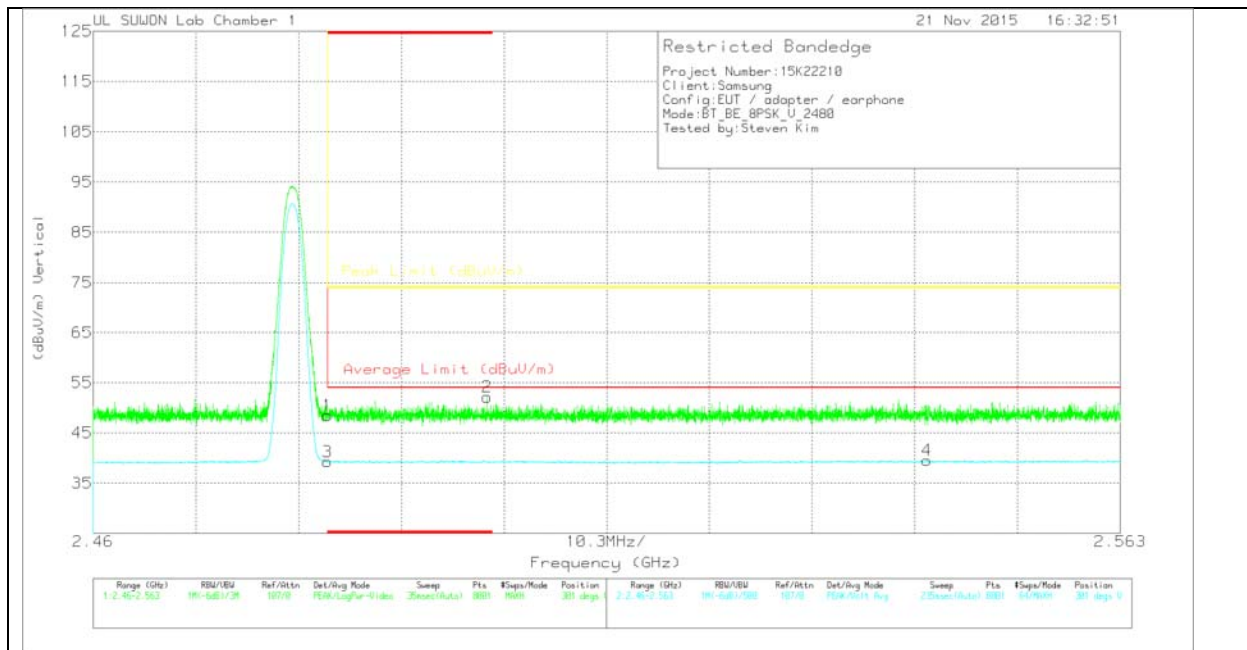
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168 717)_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	45.38	Pk	32	-28.3	0	49.08	-	-	74	-24.92	72	100	H
2	2.555	48.43	Pk	32	-28.2	0	52.23	-	-	74	-21.77	72	100	H
3	* 2.484	36.55	V1TV	32	-28.3	0	40.25	54	-13.75	-	-	72	100	H
4	* 2.484	36.65	V1TV	32	-28.3	0	40.35	54	-13.65	-	-	72	100	H

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

Pk - Peak detector

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

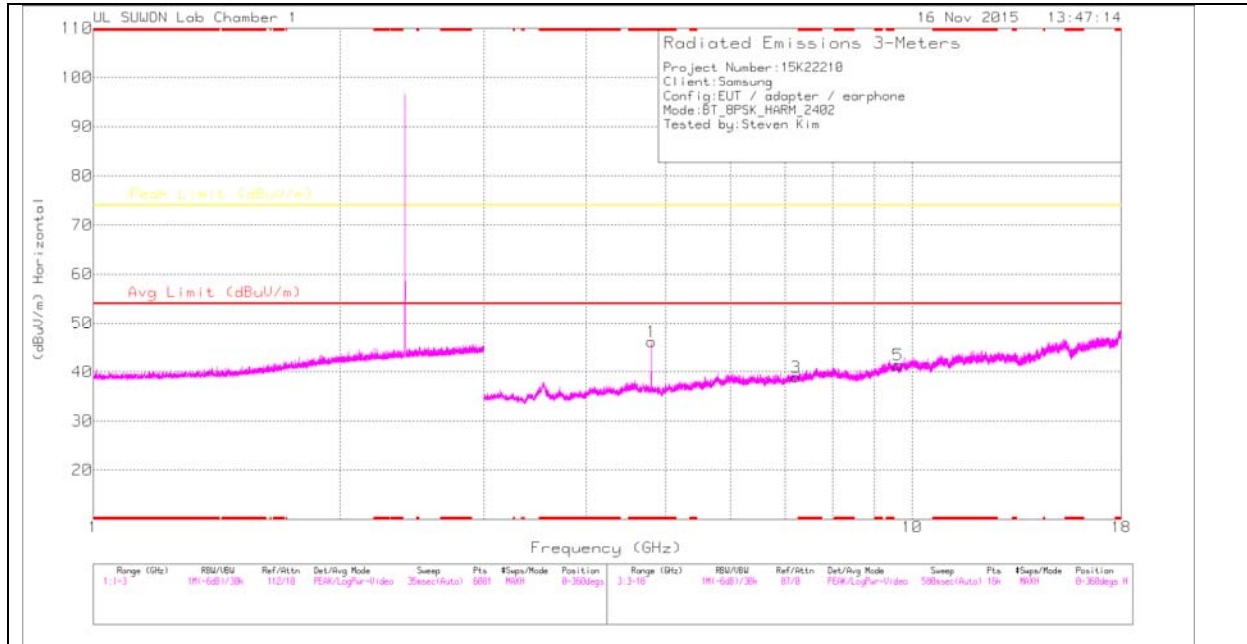
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168 717)_150619	Path_2	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	44.8	Pk	32	-28.3	0	48.5	-	-	74	-25.5	301	335	V
2	* 2.5	48.44	Pk	32	-28.3	0	52.14	-	-	74	-21.86	301	335	V
3	* 2.484	35.59	V1TV	32	-28.3	0	39.29	54	-14.71	-	-	301	335	V
4	2.544	35.76	V1TV	32	-28.2	0	39.56	54	-14.44	-	-	301	335	V

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

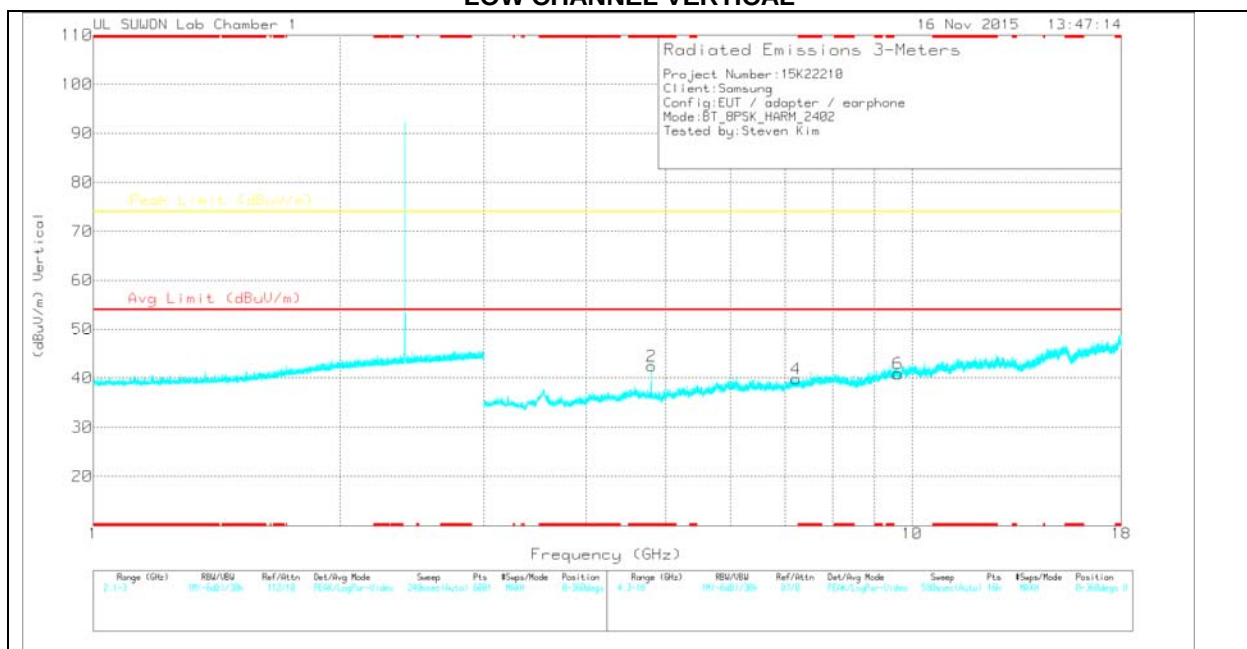
Pk - Peak detector

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(0016 8717)_150 619	Path_3	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.804	45.19	Avg	34	-33	46.19	-	-	74	-27.81	0-360	100	H
3	7.211	33.23	Avg	35.7	-30	38.93	-	-	74	-35.07	0-360	100	H
5	9.611	31.02	Avg	37	-26.6	41.42	-	-	74	-32.58	0-360	100	H
2	* 4.804	41.42	Avg	34	-33	42.42	-	-	74	-31.58	0-360	200	V
4	7.211	34.09	Avg	35.7	-30	39.79	-	-	74	-34.21	0-360	200	V
6	9.611	30.46	Avg	37	-26.6	40.86	-	-	74	-33.14	0-360	100	V

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

Avg - Video bandwidth < Resolution bandwidth

Radiated Emissions

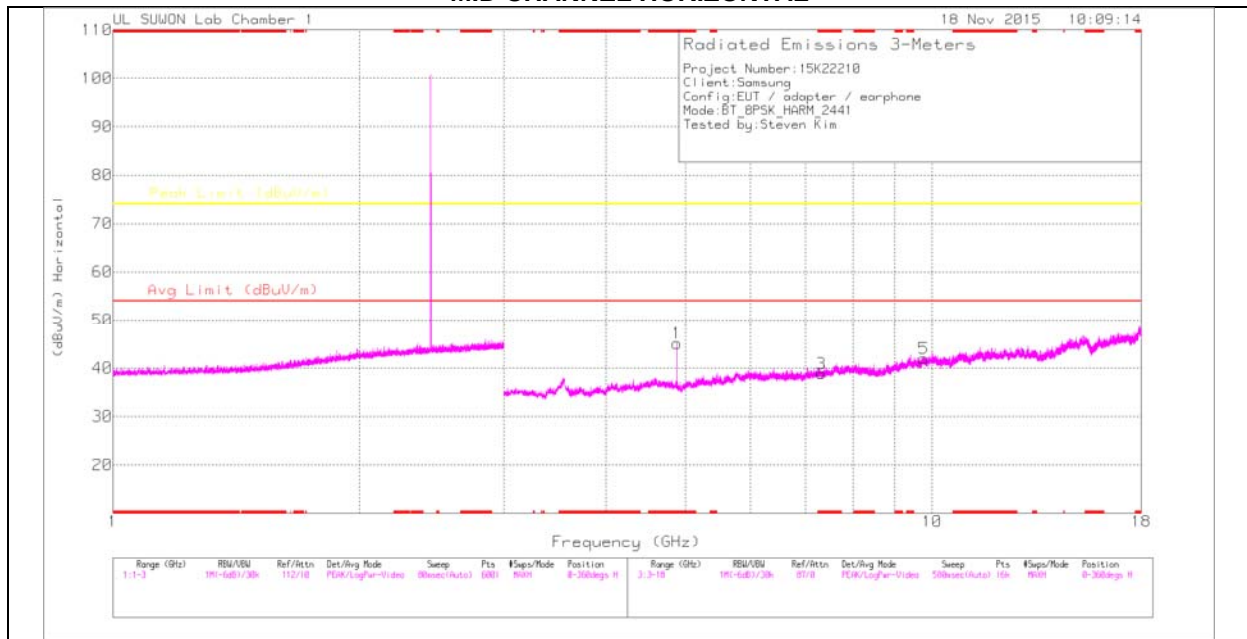
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_3	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.804	53.73	PK2	34	-33	54.73	-	-	74	-19.27	354	102	H
* 4.804	43.97	VA1T	34	-33	44.97	54	-9.03	-	-	354	102	H
* 4.804	52.09	PK2	34	-33	53.09	-	-	74	-20.91	221	254	V
* 4.804	41.49	VA1T	34	-33	42.49	54	-11.51	-	-	221	254	V

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

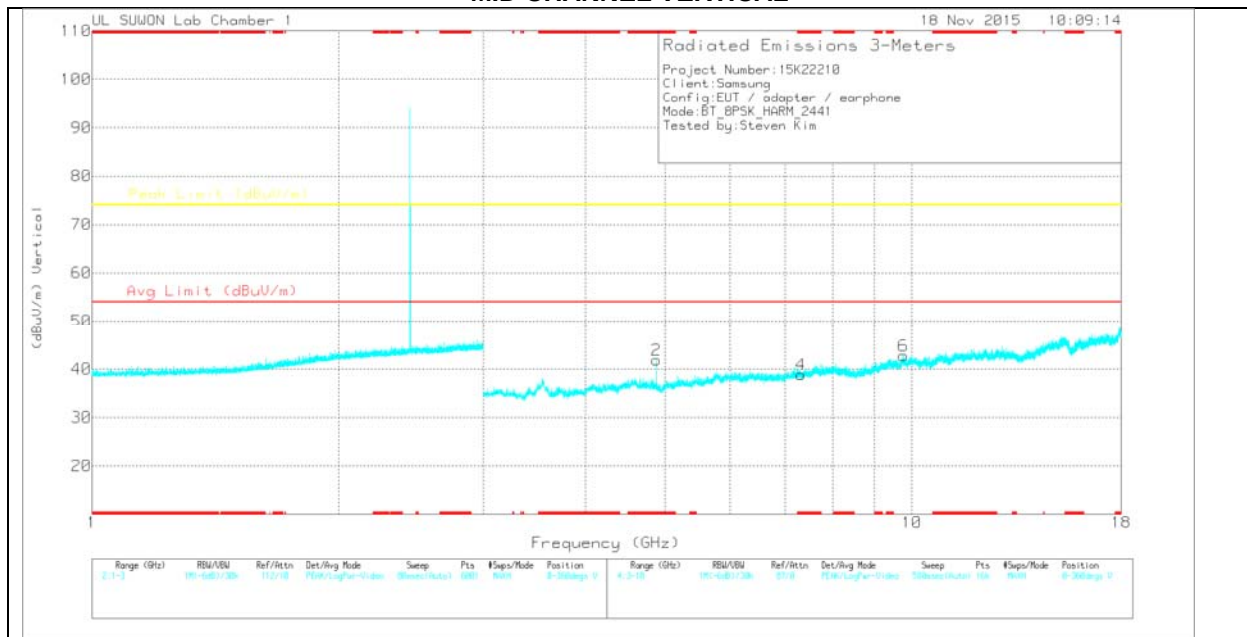
PK2 - KDB558074 Method: Maximum Peak

VA1T - FHSS: Linear Voltage Average $V_B = 1/T_{on}$ where: T_{on} is transmit duration

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(0016 8717)_150 619	Path_3	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.881	44.21	PK	34	-33.1	45.11	-	-	74	-28.89	0-360	100	H
3	* 7.325	33.1	PK	35.8	-30	38.9	-	-	74	-35.1	0-360	100	H
5	9.766	30.8	PK	37.2	-26	42	-	-	74	-32	0-360	200	H
2	* 4.881	40.94	PK	34	-33.1	41.84	-	-	74	-32.16	0-360	200	V
4	* 7.323	33	PK	35.8	-30	38.8	-	-	74	-35.2	0-360	200	V
6	9.766	31.54	PK	37.2	-26	42.74	-	-	74	-31.26	0-360	200	V

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

PK – Peak Detector

Radiated Emissions

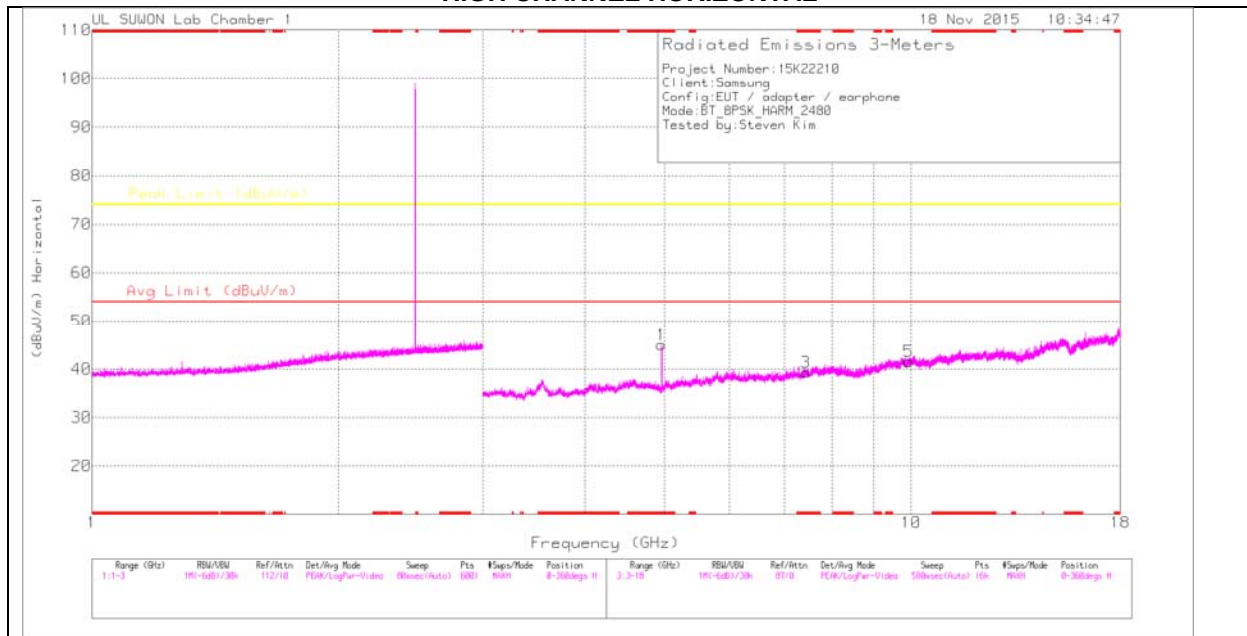
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_3	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.882	50.9	PK2	34	-33.1	51.8	-	-	74	-22.2	152	280	H
* 4.882	40.43	VA1T	34	-33.1	41.33	54	-12.67	-	-	152	280	H
* 4.882	53.25	PK2	34	-33.1	54.15	-	-	74	-19.85	216	232	V
* 4.882	43.56	VA1T	34	-33.1	44.46	54	-9.54	-	-	216	232	V

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

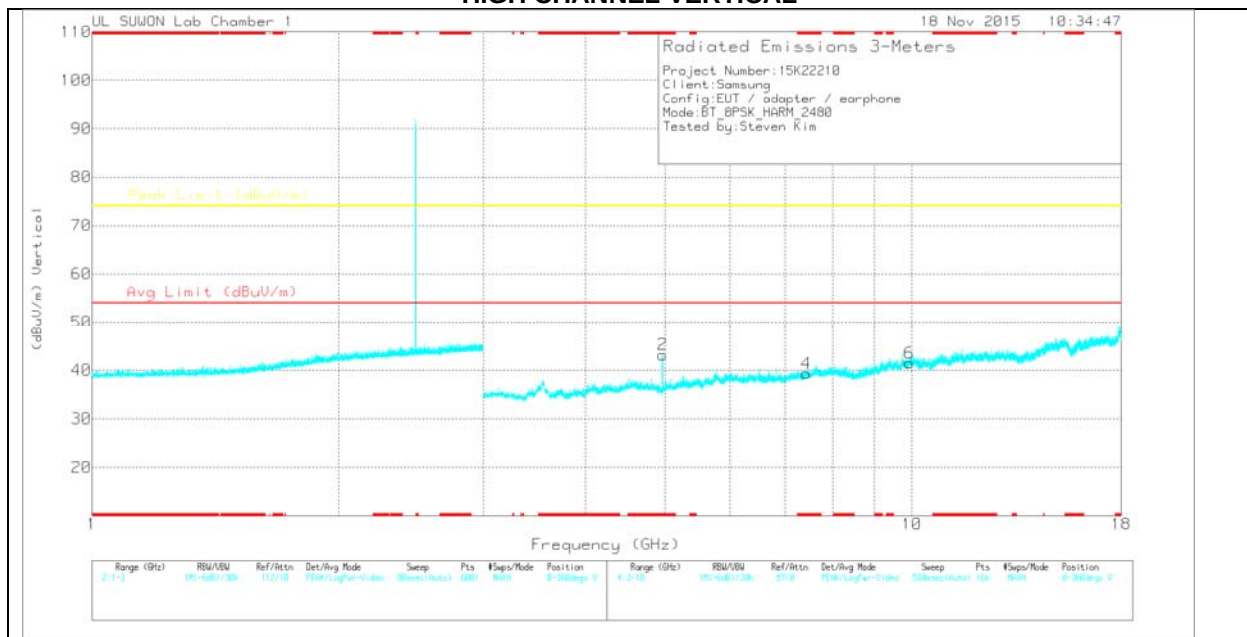
PK2 - KDB558074 Method: Maximum Peak

VA1T - FHSS: Linear Voltage Average $V_B = 1/T_{on}$ where: T_{on} is transmit duration

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(0016 8717)_150 619	Path_3	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.959	44.14	PK	34	-33.1	45.04	-	-	74	-28.96	0-360	100	H
3	* 7.44	33.42	PK	35.8	-29.9	39.32	-	-	74	-34.68	0-360	200	H
5	9.92	30.77	PK	37.4	-26.6	41.57	-	-	74	-32.43	0-360	100	H
2	* 4.96	42.31	PK	34	-33.1	43.21	-	-	74	-30.79	0-360	200	V
4	* 7.441	33.47	PK	35.8	-29.9	39.37	-	-	74	-34.63	0-360	200	V
6	9.919	30.69	PK	37.4	-26.6	41.49	-	-	74	-32.51	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	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.96	52.37	PK2	34	-33.1	53.27	-	-	74	-20.73	156	275	H
* 4.96	42.58	VA1T	34	-33.1	43.48	54	-10.52	-	-	156	275	H
* 4.96	52.19	PK2	34	-33.1	53.09	-	-	74	-20.91	226	273	V
* 4.96	42.08	VA1T	34	-33.1	42.98	54	-11.02	-	-	226	273	V

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

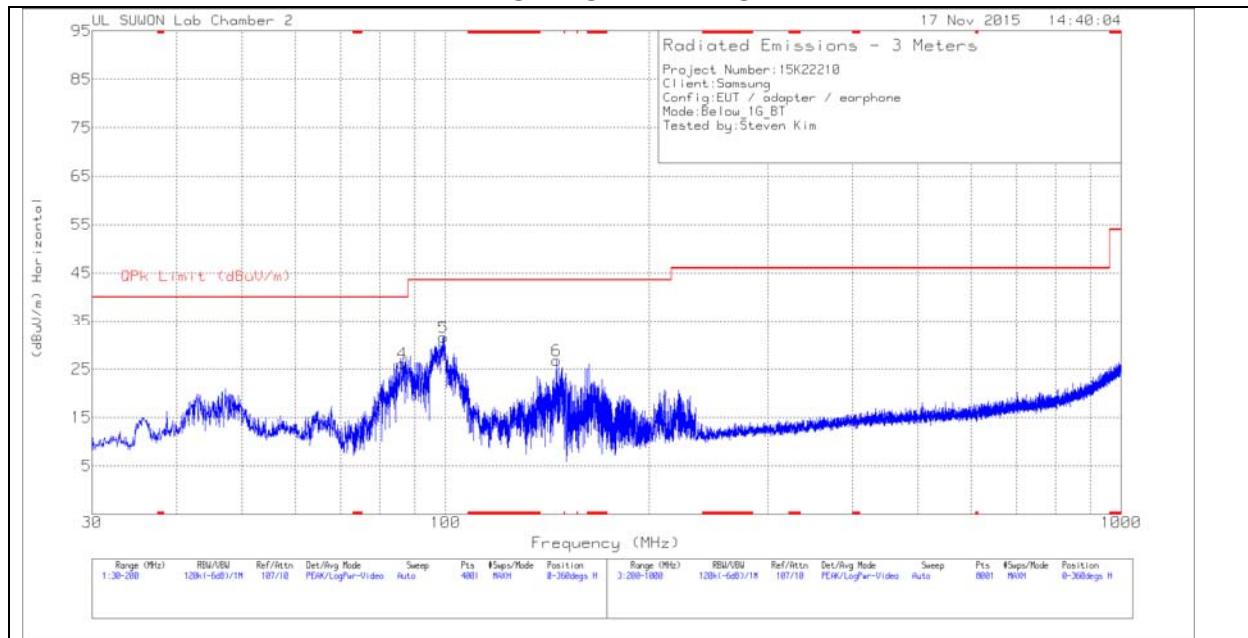
PK2 - KDB558074 Method: Maximum Peak

VA1T - FHSS: Linear Voltage Average $V_B = 1/T_{on}$ where: T_{on} is transmit duration

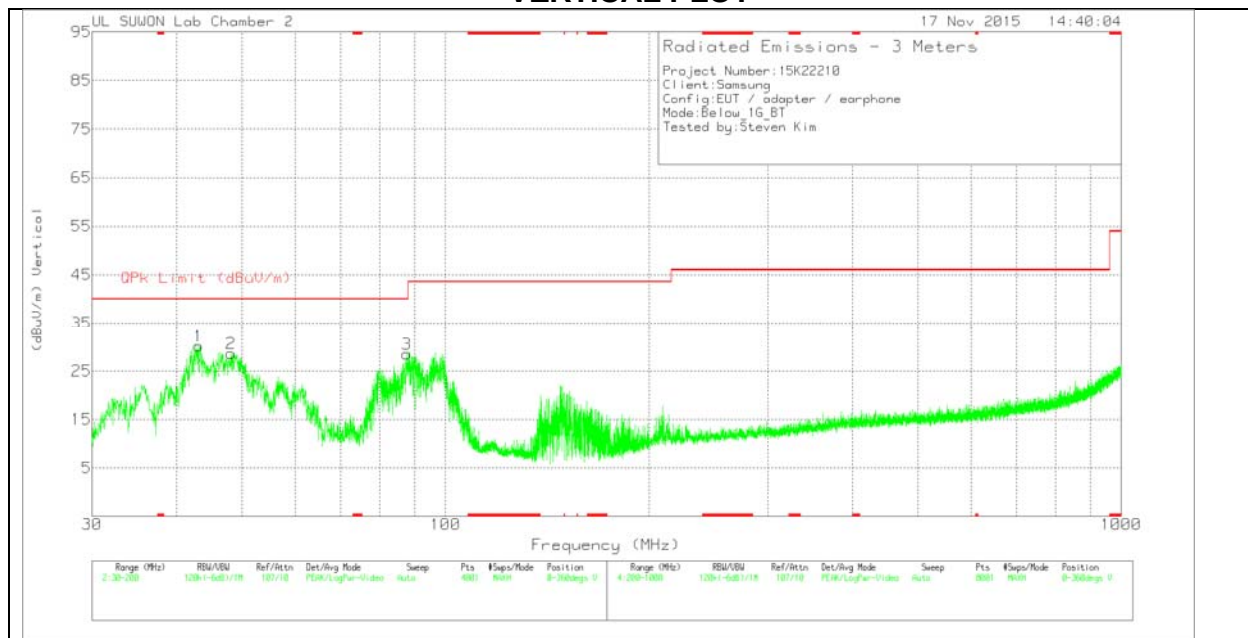
9.3. WORST-CASE BELOW 1 GHz

GFSK SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)

HORIZONTAL PLOT



VERTICAL PLOT



BELOW 1 GHz TABLE

Trace Markers

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
4	86.3125	47.99	Pk	8.7	-30.6	26.09	40	-13.91	0-360	200	H
5	99.4025	50.56	Pk	11.5	-30.5	31.56	43.52	-11.96	0-360	300	H
6	146.0675	49.11	Pk	8.1	-30.5	26.71	43.52	-16.81	0-360	200	H
1	43.1325	47.42	Pk	13.5	-30.7	30.22	40	-9.78	0-360	100	V
2	48.19	45.43	Pk	14	-30.8	28.63	40	-11.37	0-360	100	V
3	87.5875	50.13	Pk	9	-30.6	28.53	40	-11.47	0-360	100	V

Pk - Peak detector

10. 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.

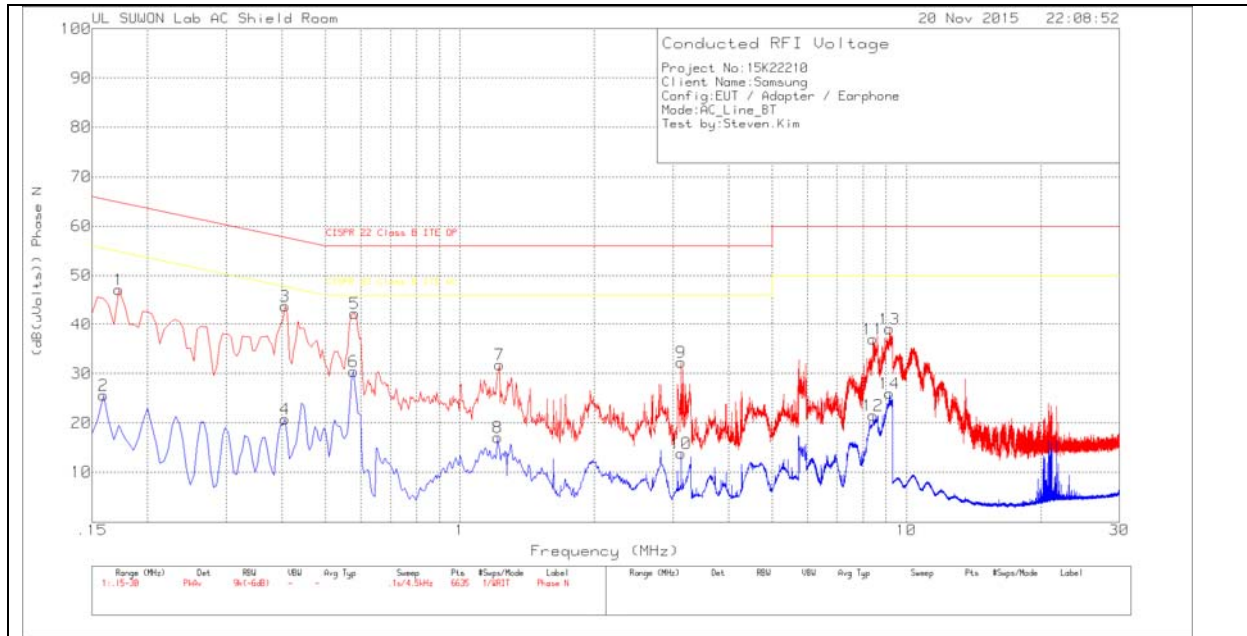
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

6 WORST EMISSIONS

LINE 1 PLOT



LINE 1 RESULTS

Trace Markers

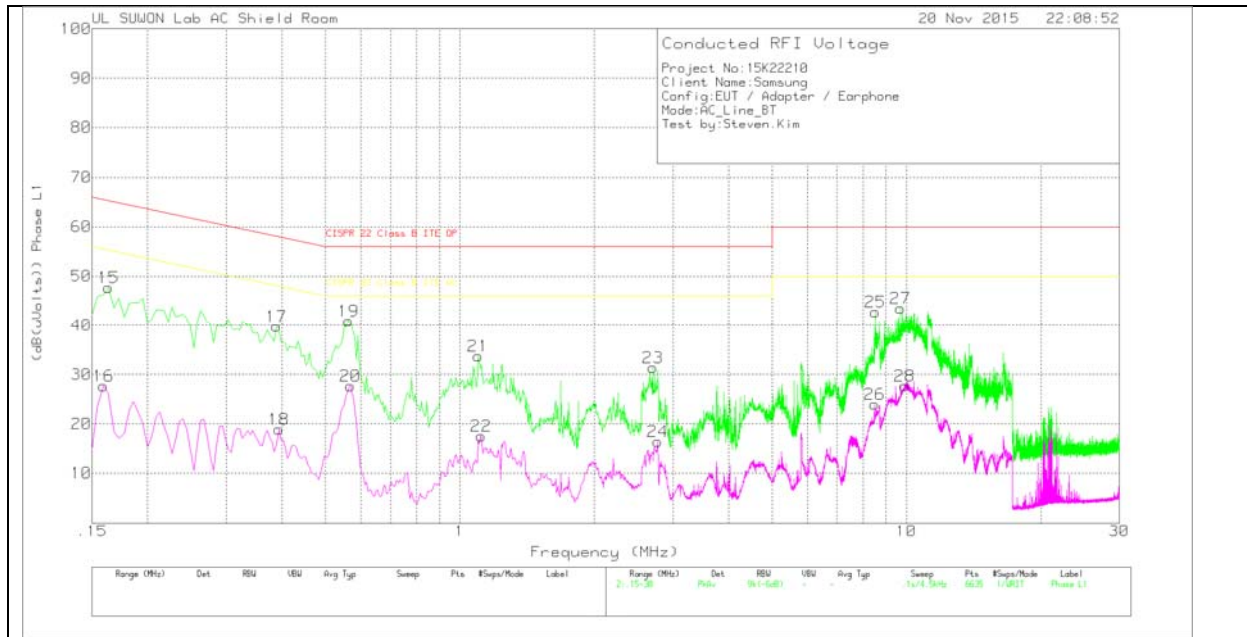
Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101837_N	CE Shield Room	Corrected Reading (dB(uVolts)	CISPR 22 Class B ITE QP	Margin (dB)	CISPR 22 Class B ITE AV	Margin (dB)
1	.1725	37	Pk	10.1	0	47.1	64.84	-17.74	-	-
2	.159	15.63	Av	10	0	25.63	-	-	55.52	-29.89
3	.4065	33.73	Pk	10	0	43.73	57.72	-13.99	-	-
4	.4065	10.76	Av	10	0	20.76	-	-	47.72	-26.96
5	.582	32.19	Pk	10.1	0	42.29	56	-13.71	-	-
6	.5775	20.31	Av	10.1	0	30.41	-	-	46	-15.59
7	1.2255	21.83	Pk	9.8	.1	31.73	56	-24.27	-	-
8	1.2165	7.19	Av	9.8	.1	17.09	-	-	46	-28.91
9	3.129	22.37	Pk	9.8	.1	32.27	56	-23.73	-	-
10	3.129	3.92	Av	9.8	.1	13.82	-	-	46	-32.18
11	8.412	27.11	Pk	9.7	.1	36.91	60	-23.09	-	-
12	8.412	11.69	Av	9.7	.1	21.49	-	-	50	-28.51
13	9.177	29.16	Pk	9.7	.2	39.06	60	-20.94	-	-
14	9.177	16.01	Av	9.7	.2	25.91	-	-	50	-24.09

Pk - Peak detector

Av - Average detection

LINE 2 PLOT



LINE 2 RESULTS

Trace Markers

Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101837_L 1	CE Shield Room	Corrected Reading (dB(uVolts)	CISPR 22 Class B ITE QP	Margin (dB)	CISPR 22 Class B ITE AV	Margin (dB)
15	.1635	37.91	Pk	9.8	0	47.71	65.28	-17.57	-	-
16	.159	17.85	Av	9.8	0	27.65	-	-	55.52	-27.87
17	.3885	29.88	Pk	9.9	0	39.78	58.1	-18.32	-	-
18	.393	9.04	Av	9.9	0	18.94	-	-	48	-29.06
19	.564	30.87	Pk	10	0	40.87	56	-15.13	-	-
20	.5685	17.66	Av	10	0	27.66	-	-	46	-18.34
21	1.0995	24.24	Pk	9.5	0	33.74	56	-22.26	-	-
22	1.1175	8.09	Av	9.5	0	17.59	-	-	46	-28.41
23	2.706	21.91	Pk	9.4	.1	31.41	56	-24.59	-	-
24	2.7735	6.9	Av	9.4	.1	16.4	-	-	46	-29.6
25	8.52	33.33	Pk	9.3	.1	42.73	60	-17.27	-	-
26	8.4885	14.62	Av	9.3	.1	24.02	-	-	50	-25.98
27	9.699	33.96	Pk	9.3	.2	43.46	60	-16.54	-	-
28	9.9105	18.2	Av	9.3	.2	27.7	-	-	50	-22.3

Pk - Peak detector

Av - Average detection