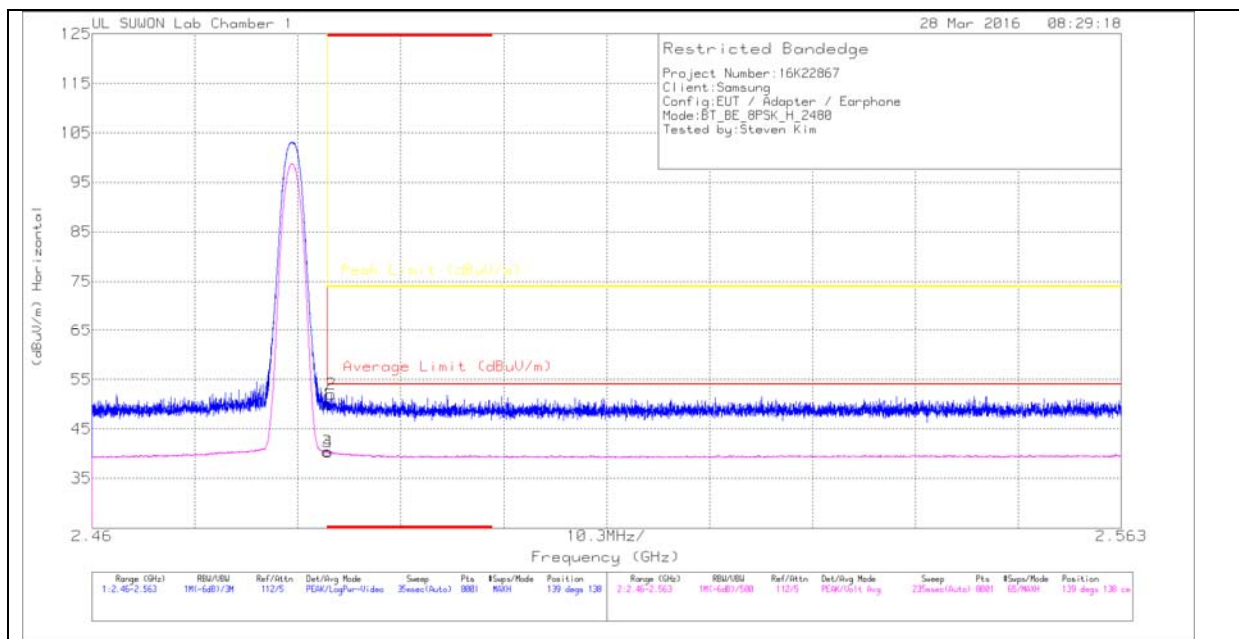


**AUTHORIZED BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL PEAK AND AVERAGE PLOT**



**HORIZONTAL DATA**

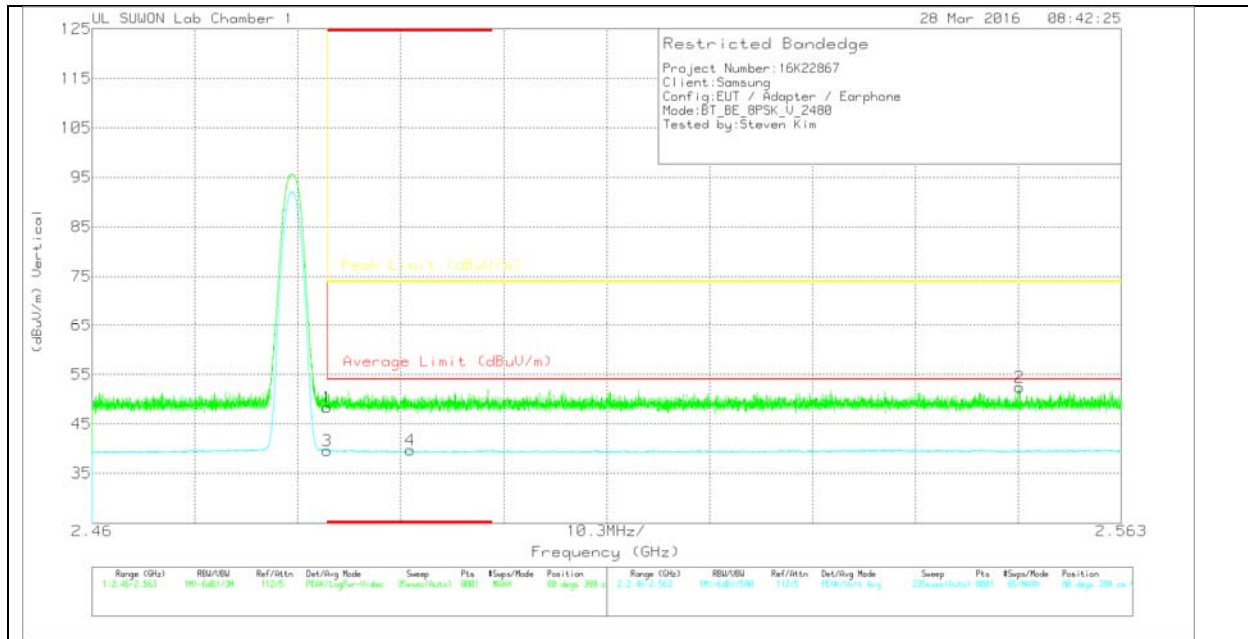
**Trace Markers**

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	* 2.484	46.89	Pk	32	-28.9	49.99	-	-	74	-24.01	139	138	H
2	* 2.484	48.9	Pk	32	-28.9	52	-	-	74	-22	139	138	H
3	* 2.484	37.3	V1TV	32	-28.9	40.4	54	-13.6	-	-	139	138	H
4	* 2.484	37.18	V1TV	32	-28.9	40.28	54	-13.72	-	-	139	138	H

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

Pk - Peak detector

**VERTICAL PEAK AND AVERAGE PLOT**



**VERTICAL DATA**

**Trace Markers**

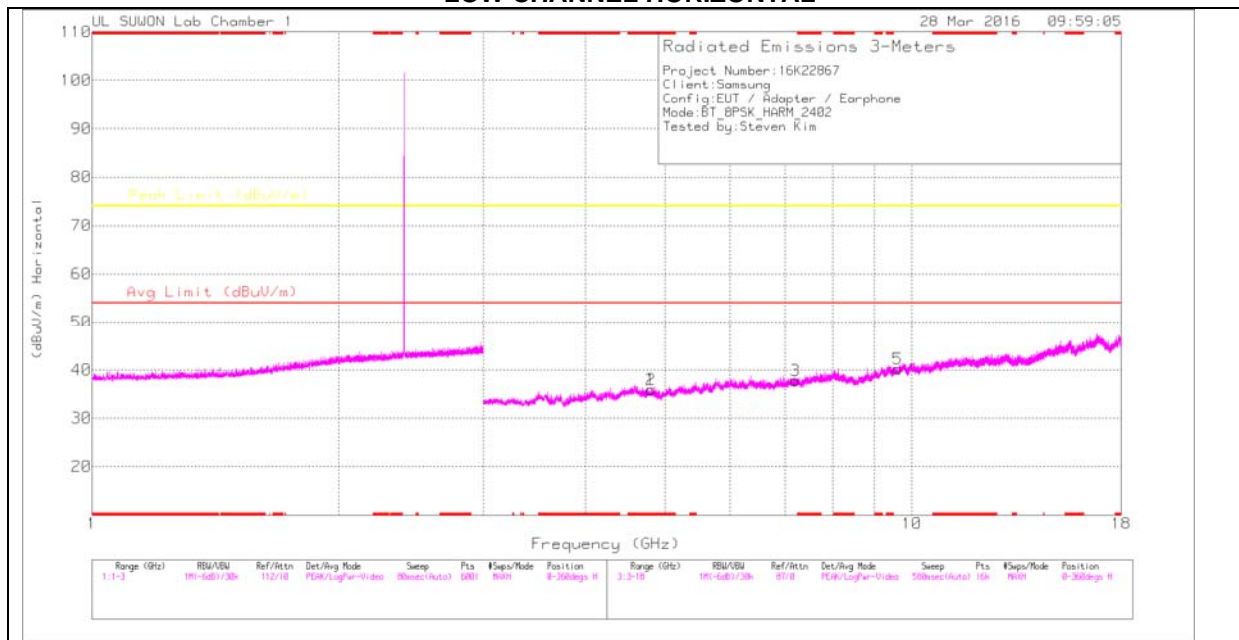
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_2	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	45.3	Pk	32	-28.9	48.4	-	-	74	-25.6	80	398	V
2	2.553	49.21	Pk	32	-28.8	52.41	-	-	74	-21.59	80	398	V
3	* 2.484	36.5	V1TV	32	-28.9	39.6	54	-14.4	-	-	80	398	V
4	* 2.492	36.64	V1TV	32	-28.9	39.74	54	-14.26	-	-	80	398	V

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

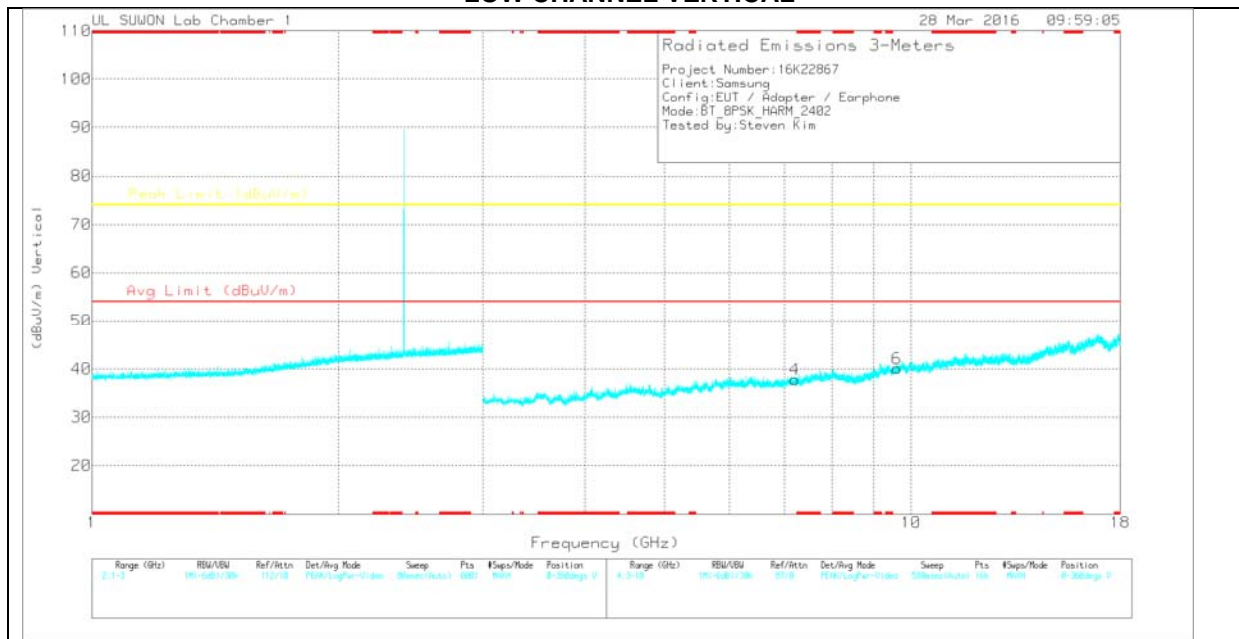
Pk - Peak detector

### 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

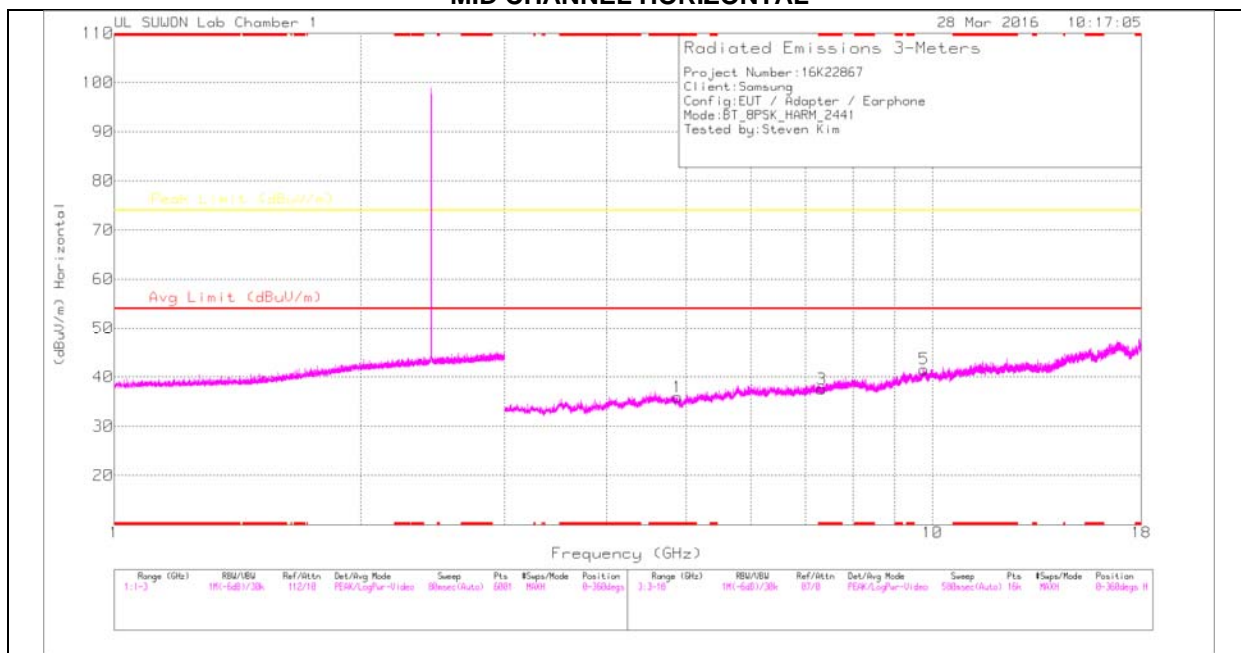
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_3	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.805	35.72	PK	34	-33.8	35.92	-	-	74	-38.08	0-360	200	H
2	* 4.805	35.72	PK	34	-33.8	35.92	-	-	74	-38.08	0-360	200	H
3	7.21	32.99	PK	35.7	-30.8	37.89	-	-	74	-36.11	0-360	100	H
5	9.611	30.48	PK	37	-27.3	40.18	-	-	74	-33.82	0-360	200	H
4	7.213	33.05	PK	35.7	-30.9	37.85	-	-	74	-36.15	0-360	200	V
6	9.614	30.3	PK	37	-27.2	40.1	-	-	74	-33.9	0-360	200	V

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

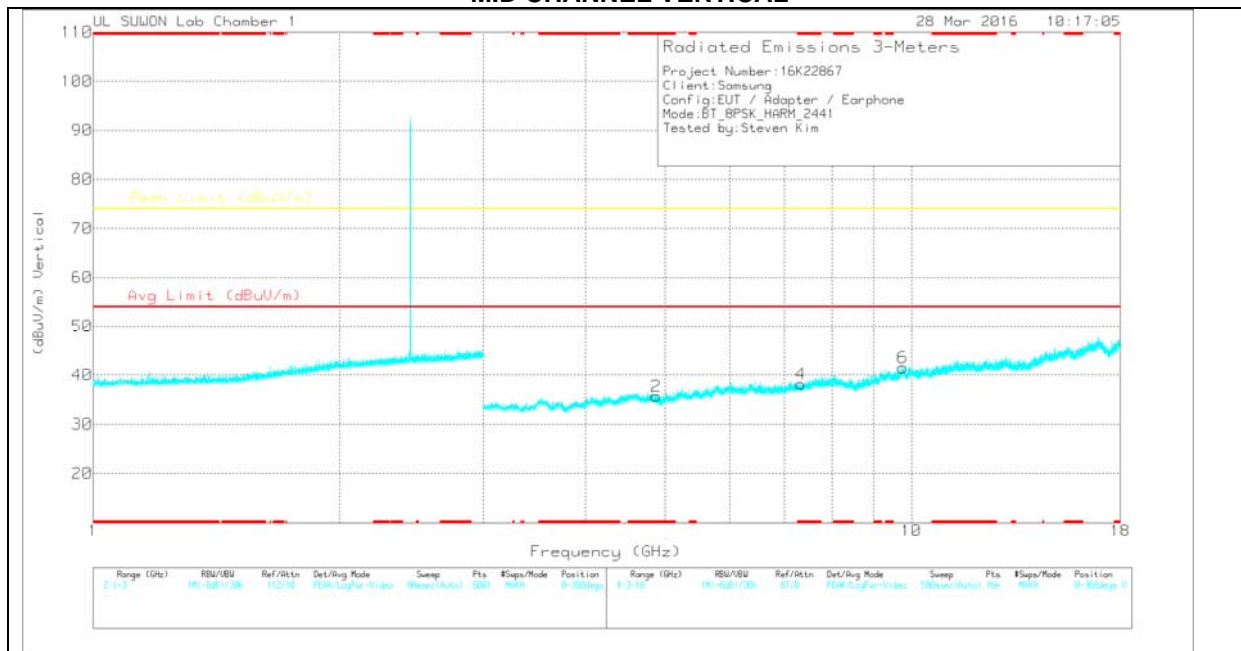
PK – Peak detector

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

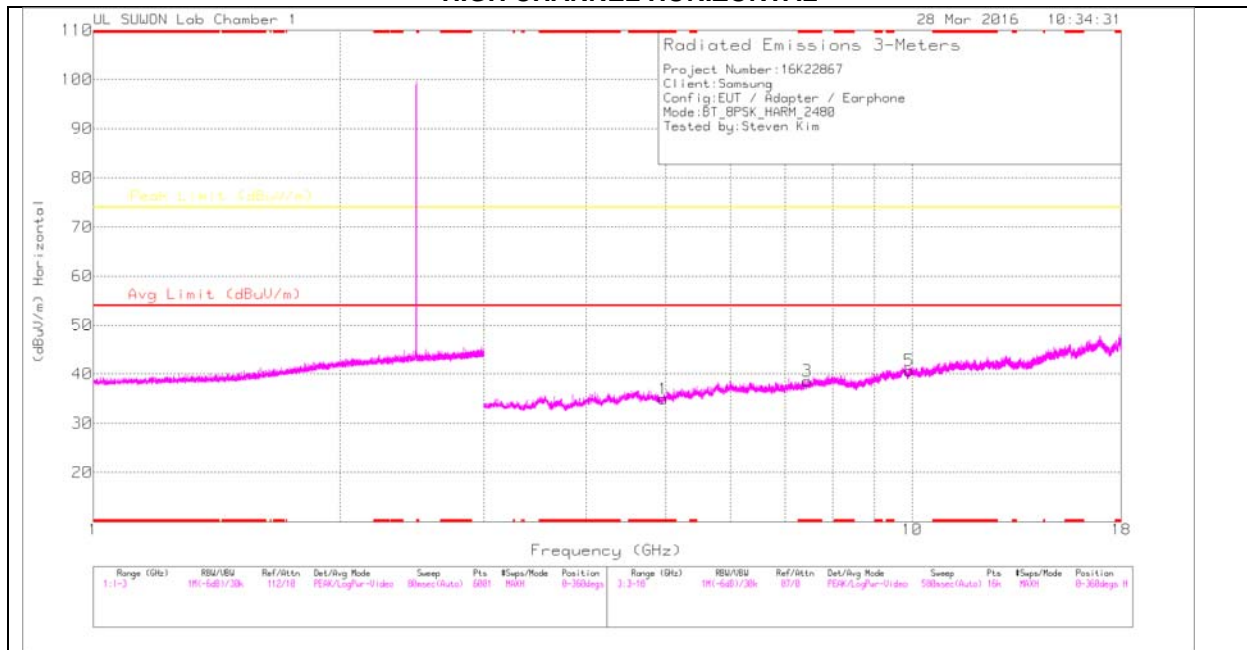
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_3	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.881	35.91	PK	34	-34	35.91	-	-	74	-38.09	0-360	200	H
3	* 7.326	32.53	PK	35.8	-30.8	37.53	-	-	74	-36.47	0-360	100	H
5	9.763	31	PK	37.2	-26.6	41.6	-	-	74	-32.4	0-360	100	H
2	* 4.878	35.7	PK	34	-34	35.7	-	-	74	-38.3	0-360	100	V
4	* 7.329	33.18	PK	35.8	-30.8	38.18	-	-	74	-35.82	0-360	100	V
6	9.761	30.89	PK	37.2	-26.6	41.49	-	-	74	-32.51	0-360	100	V

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

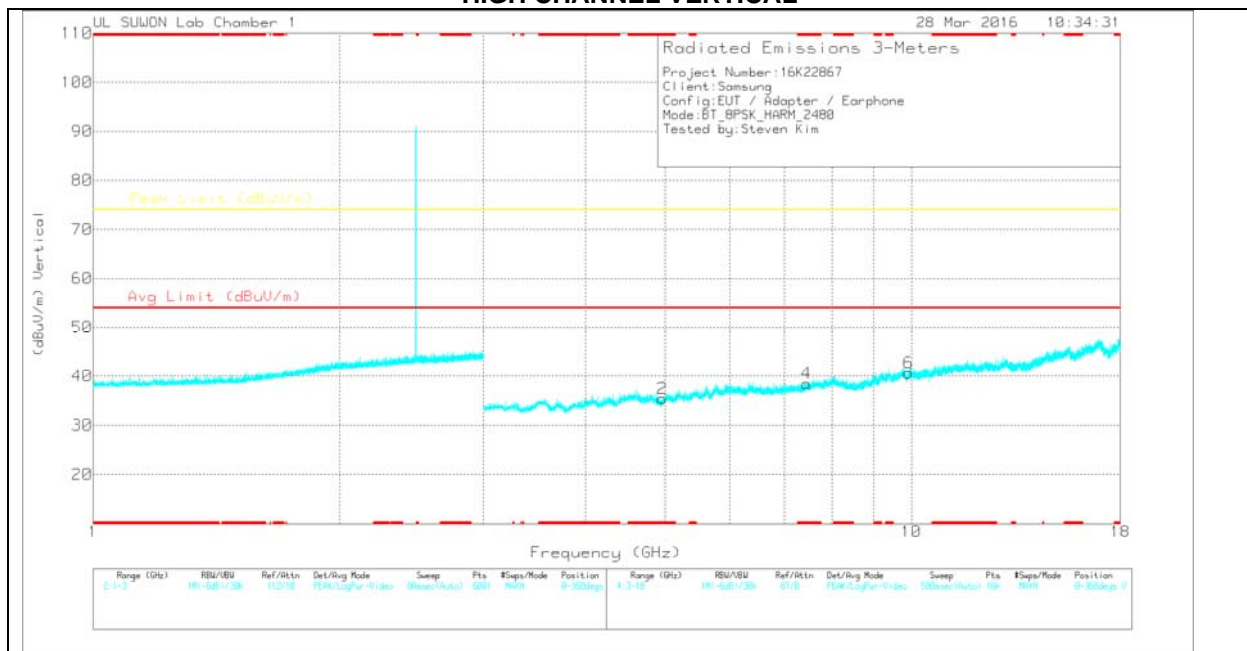
PK – Peak detector

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

### HIGH CHANNEL HORIZONTAL



### HIGH CHANNEL VERTICAL



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

**HIGH CHANNEL DATA**

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	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	* 4.966	34.81	PK	34.1	-34	34.91	-	-	74	-39.09	0-360	200	H
3	* 7.442	33.5	PK	35.8	-30.7	38.6	-	-	74	-35.4	0-360	200	H
5	9.923	30.39	PK	37.4	-27.1	40.69	-	-	74	-33.31	0-360	200	H
2	* 4.963	35.43	PK	34	-34	35.43	-	-	74	-38.57	0-360	200	V
4	* 7.44	33.39	PK	35.8	-30.7	38.49	-	-	74	-35.51	0-360	200	V
6	9.924	30.32	PK	37.4	-27.1	40.62	-	-	74	-33.38	0-360	100	V

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

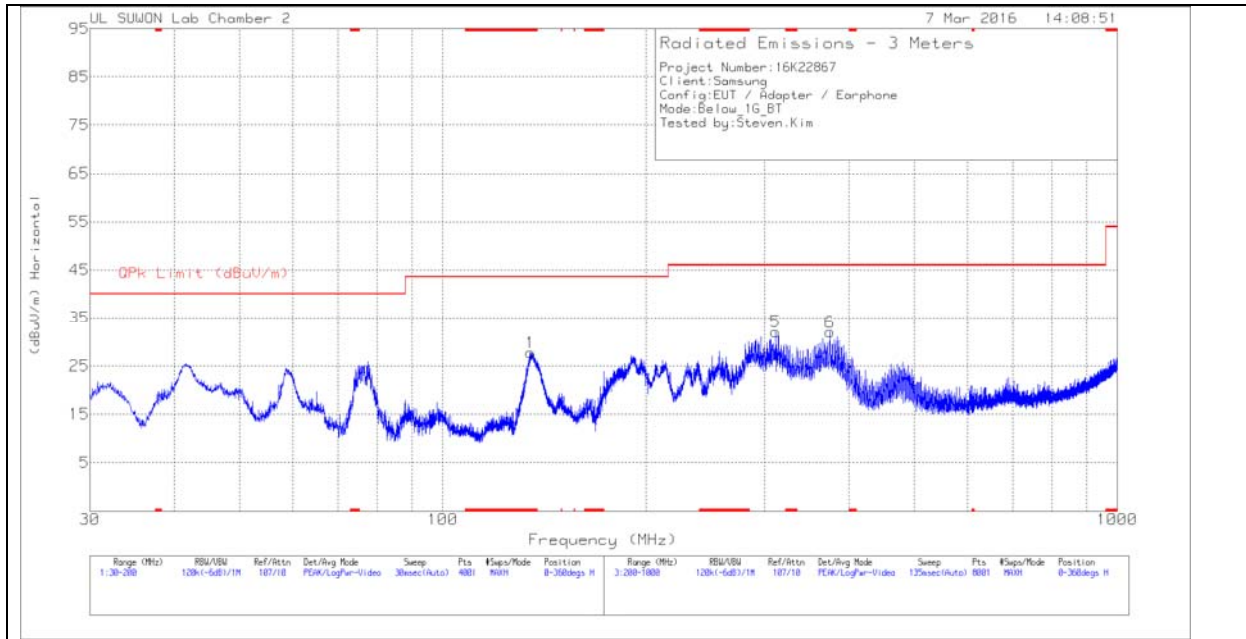
PK – Peak detector

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

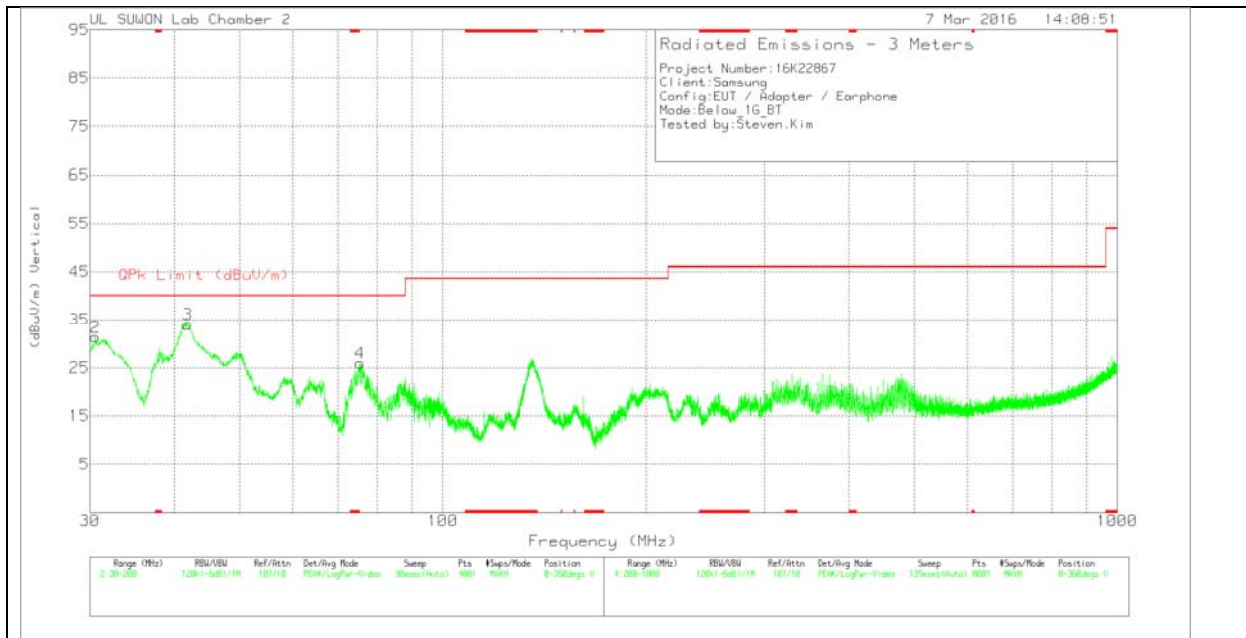
### 9.3. WORST-CASE BELOW 1 GHz

#### 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
1	* 135.0175	49.88	Pk	8.4	-30.5	27.78	43.52	-15.74	0-360	200	H
2	30.5525	51.97	Pk	10.3	-30.8	31.47	40	-8.53	0-360	100	V
3	41.9	51.63	Pk	13.2	-30.7	34.13	40	-5.87	0-360	100	V
4	75.39	48.34	Pk	8.2	-30.6	25.94	40	-14.06	0-360	100	V
5	311.3	48.43	Pk	13.6	-29.9	32.13	46.02	-13.89	0-360	100	H
6	375	47.03	Pk	14.8	-29.8	32.03	46.02	-13.99	0-360	100	H

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.

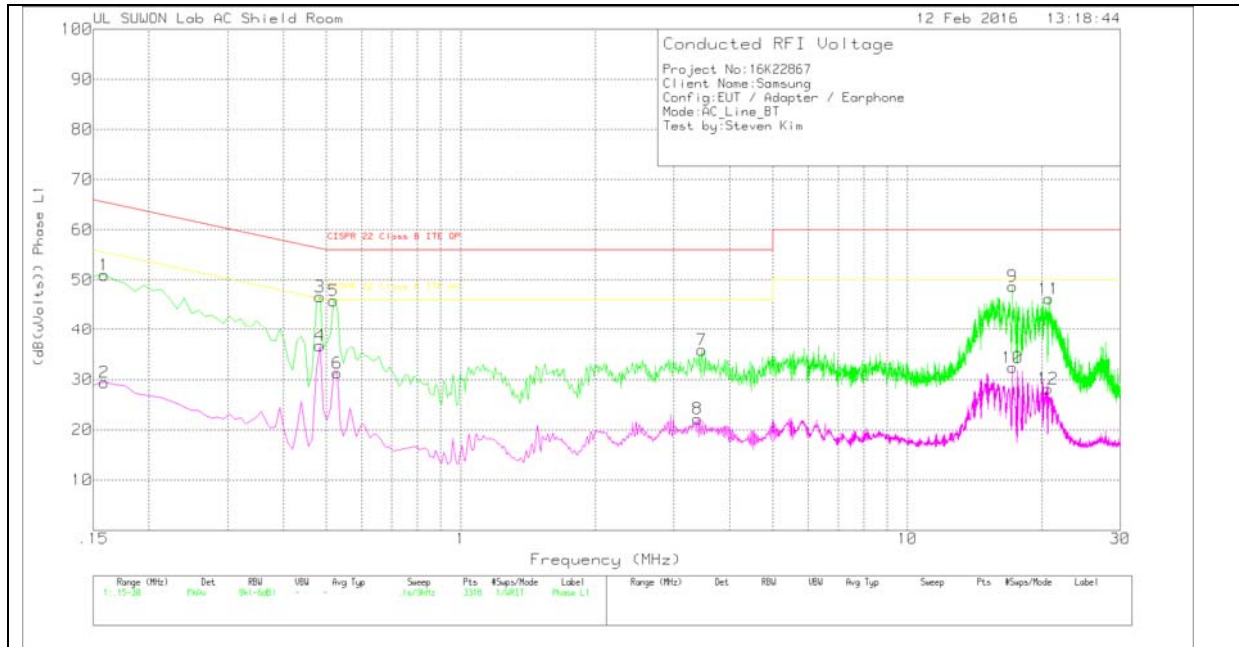
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

### RESULTS

**6 WORST EMISSIONS**

**LINE 1 PLOT**



**LINE 1 RESULTS**

Trace Markers

Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101837_wit h 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	40.96	Pk	10	0	50.96	65.52	-14.56	-	-
2	.159	19.4	Av	10	0	29.4	-	-	55.52	-26.12
3	.483	36.45	Pk	10.2	0	46.65	56.29	-9.64	-	-
4	.483	26.51	Av	10.2	0	36.71	-	-	46.29	-9.58
5	.519	35.64	Pk	10.2	0	45.84	56	-10.16	-	-
6	.528	21.16	Av	10.1	0	31.26	-	-	46	-14.74
7	3.462	25.95	Pk	9.8	.1	35.85	56	-20.15	-	-
8	3.39	12.29	Av	9.8	.1	22.19	-	-	46	-23.81
9	17.214	38.24	Pk	10.3	.2	48.74	60	-11.26	-	-
10	17.214	21.87	Av	10.3	.2	32.37	-	-	50	-17.63
11	20.715	35.65	Pk	10.4	.2	46.25	60	-13.75	-	-
12	20.652	17.53	Av	10.4	.2	28.13	-	-	50	-21.87

Pk - Peak detector

Av - Average detection

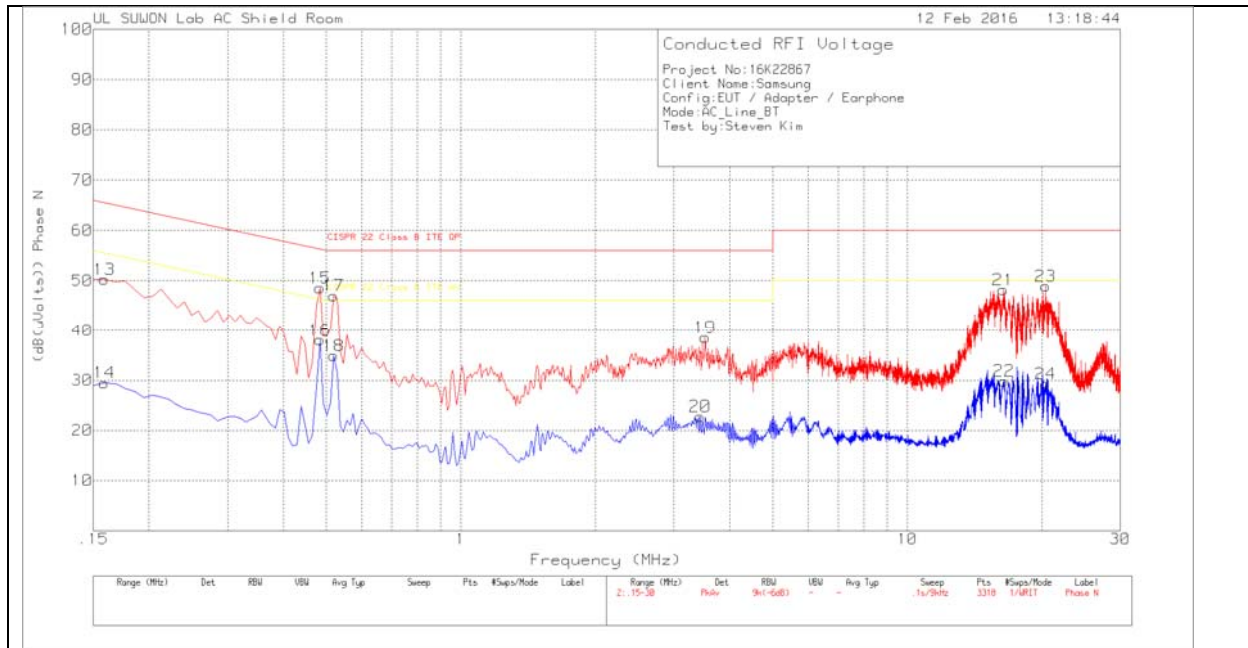
Quasi-Peak Emissions

Phase L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	101837_wit h 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)
.4812	34.15	Qp	10.2	0	44.35	56.32	-11.97	-	-
.5217	32.38	Qp	10.1	0	42.48	56	-13.52	-	-

Qp - Quasi-Peak detector

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	40.26	Pk	10	0	50.26	65.52	-15.26	-	-
14	.159	19.5	Av	10	0	29.5	-	-	55.52	-26.02
15	.483	38.48	Pk	10.1	0	48.58	56.29	-7.71	-	-
16	.483	28	Av	10.1	0	38.1	-	-	46.29	-8.19
17	.519	36.95	Pk	10.1	0	47.05	56	-8.95	-	-
18	.519	24.82	Av	10.1	0	34.92	-	-	46	-11.08
19	3.525	28.71	Pk	9.8	.1	38.61	56	-17.39	-	-
20	3.435	12.88	Av	9.8	.1	22.78	-	-	46	-23.22
21	16.395	37.59	Pk	10.4	.2	48.19	60	-11.81	-	-
22	16.458	19.26	Av	10.4	.2	29.86	-	-	50	-20.14
23	20.409	38.11	Pk	10.6	.2	48.91	60	-11.09	-	-
24	20.409	18.51	Av	10.6	.2	29.31	-	-	50	-20.69

Pk - Peak detector

Av - Average detection

Quasi-Peak Emissions

Phase N .15 - 30MHz

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)
.4821	36.37	Qp	10.1	0	46.47	56.3	-9.83	-	-
.5199	34.05	Qp	10.1	0	44.15	56	-11.85	-	-

Qp - Quasi-Peak detector