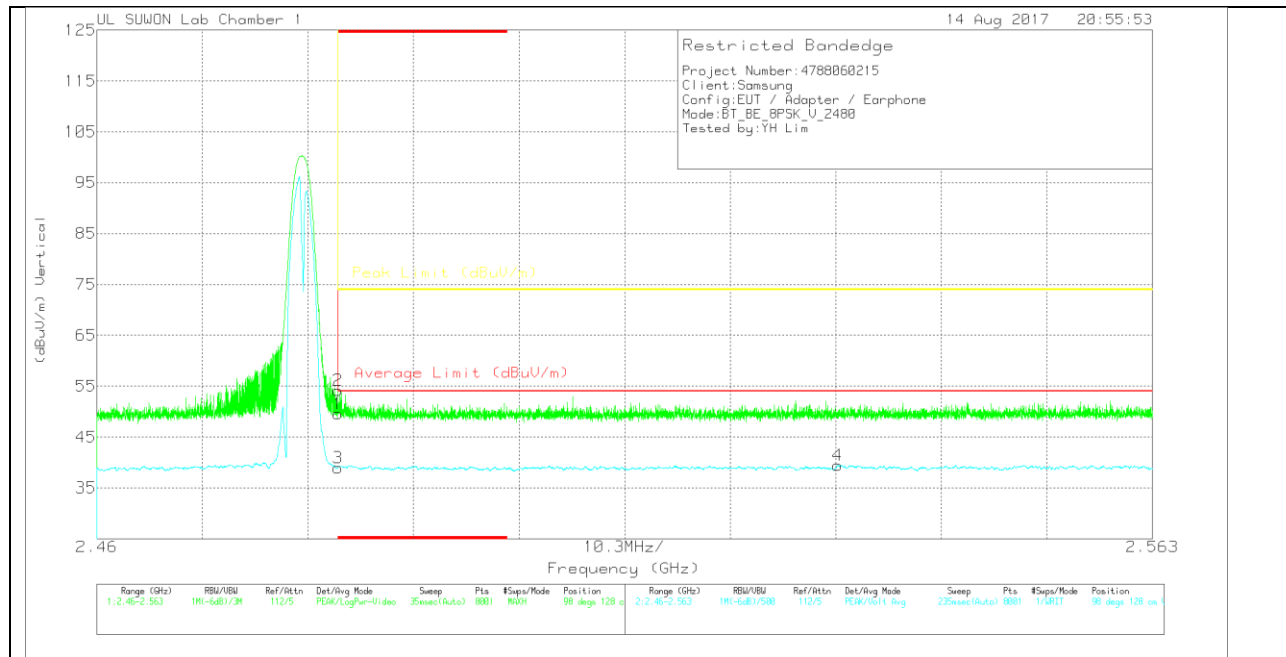


VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_00_168717	10dB_ATT (dB)_170809	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	43.54	Pk	31.6	-25.5	49.64	-	-	74	-24.36	98	128	V
2	* 2.484	48.09	Pk	31.6	-25.5	54.19	-	-	74	-19.81	98	128	V
3	* 2.484	32.89	VA1T	31.6	-25.5	38.99	54	-15.01	-	-	98	128	V
4	2.532	33.05	VA1T	31.7	-25.3	39.45	54	-14.55	-	-	98	128	V

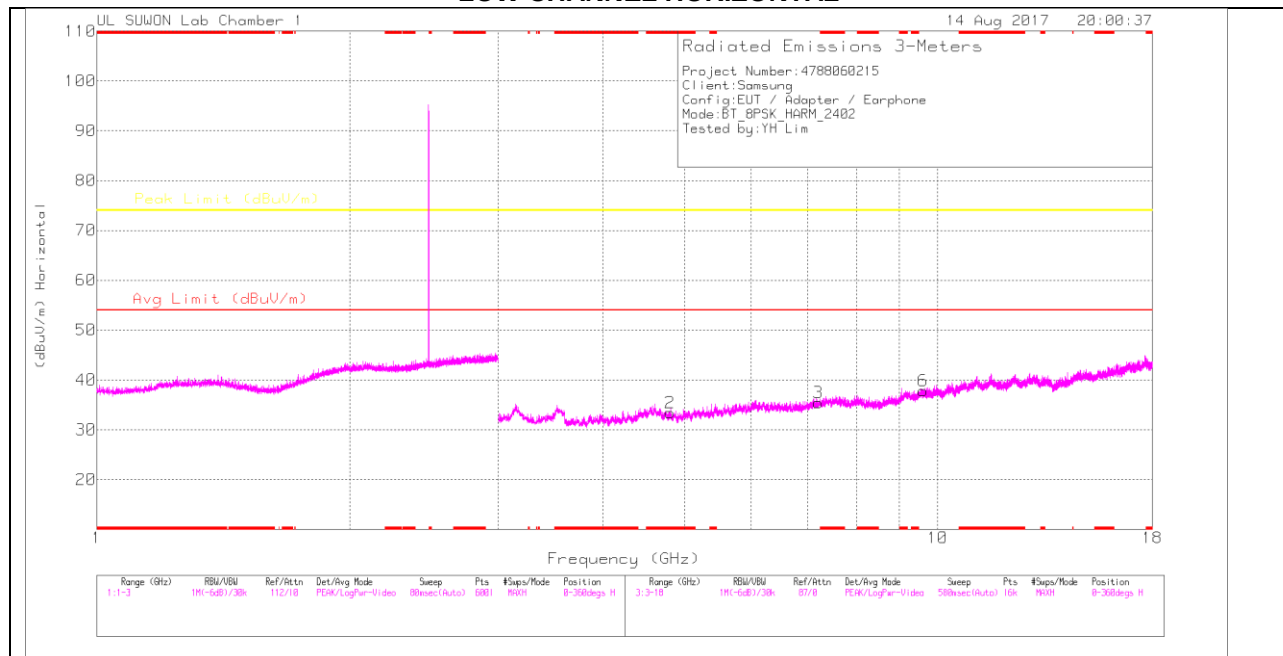
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

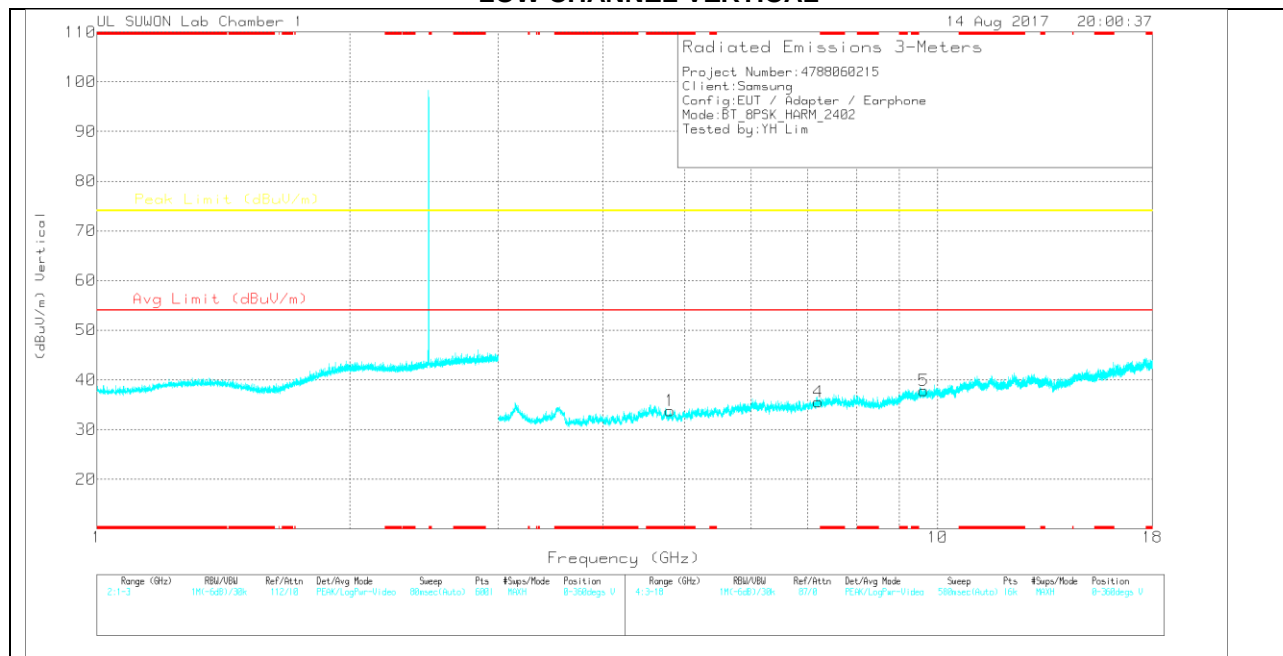
VA1T - FHSS: Linear Voltage Average $VB=1/Ton$ where: Ton is transmit duration

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

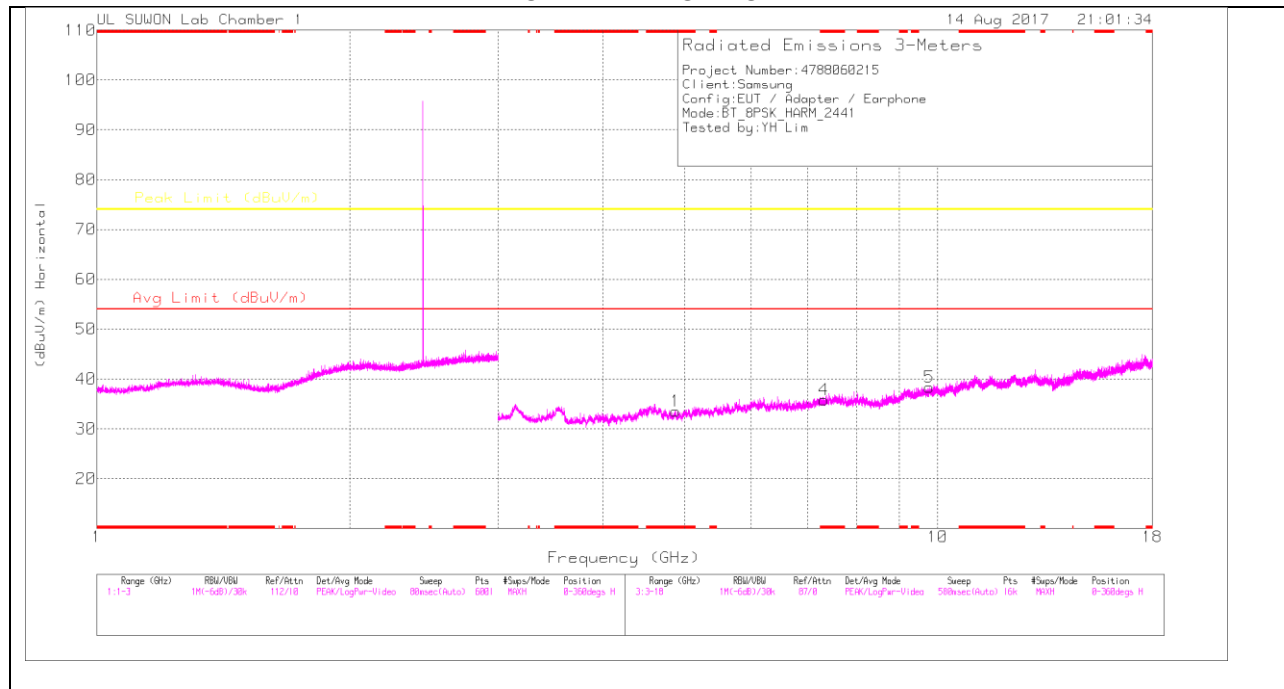
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_0016 8717	3GHz_HP(dB)_170809	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 4.807	31.32	PK	33.8	-31.7	33.42	-	-	74	-40.58	0-360	250	H
3	7.214	27.61	PK	35.9	-28.1	35.41	-	-	74	-38.59	0-360	250	H
6	9.613	24.69	PK	36.7	-23.6	37.79	-	-	74	-36.21	0-360	150	H
1	* 4.807	31.64	PK	33.8	-31.7	33.74	-	-	74	-40.26	0-360	250	V
4	7.215	27.69	PK	35.9	-28	35.59	-	-	74	-38.41	0-360	150	V
5	9.617	24.62	PK	36.7	-23.5	37.82	-	-	74	-36.18	0-360	150	V

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

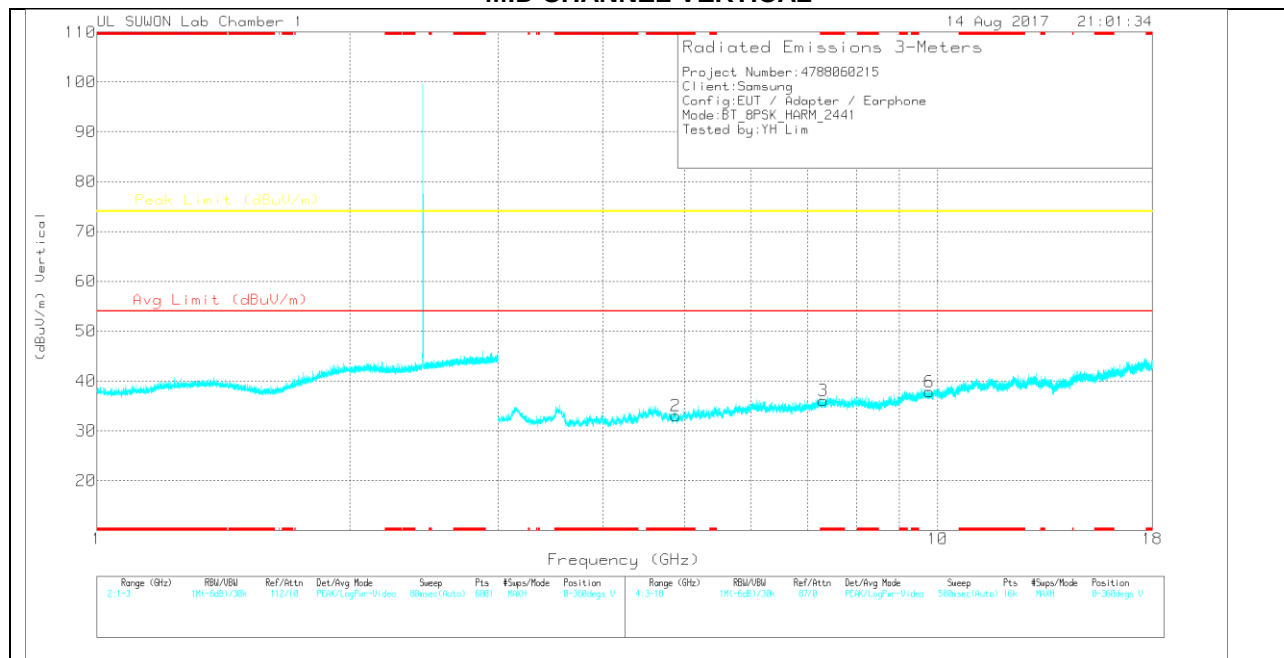
PK – Peak detector

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

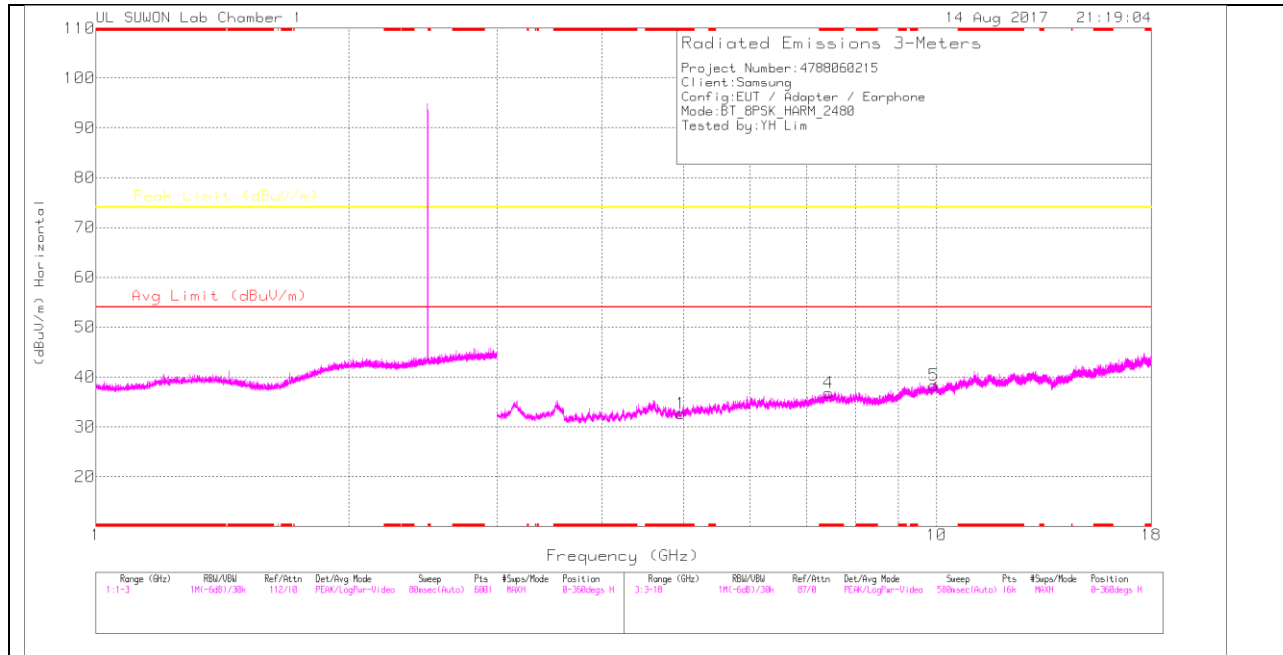
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_0016 8717	3GHz_HP(dB)_170809	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.877	31.45	PK	33.8	-31.7	33.55	-	-	74	-40.45	0-360	250	H
4	* 7.316	27.53	PK	35.9	-27.6	35.83	-	-	74	-38.17	0-360	150	H
5	9.766	25.59	PK	36.9	-24.2	38.29	-	-	74	-35.71	0-360	150	H
2	* 4.881	30.88	PK	33.8	-31.7	32.98	-	-	74	-41.02	0-360	250	V
3	* 7.312	27.72	PK	35.9	-27.6	36.02	-	-	74	-37.98	0-360	250	V
6	9.77	25.1	PK	36.9	-24.2	37.8	-	-	74	-36.2	0-360	150	V

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

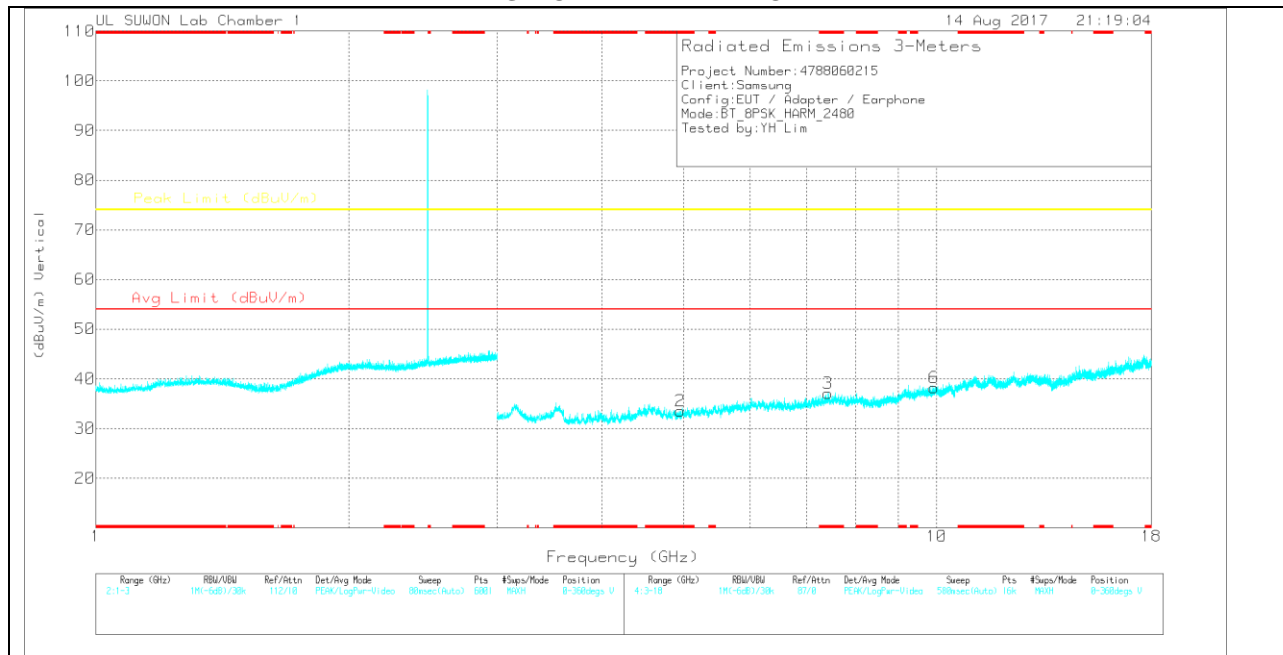
PK – Peak detector

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

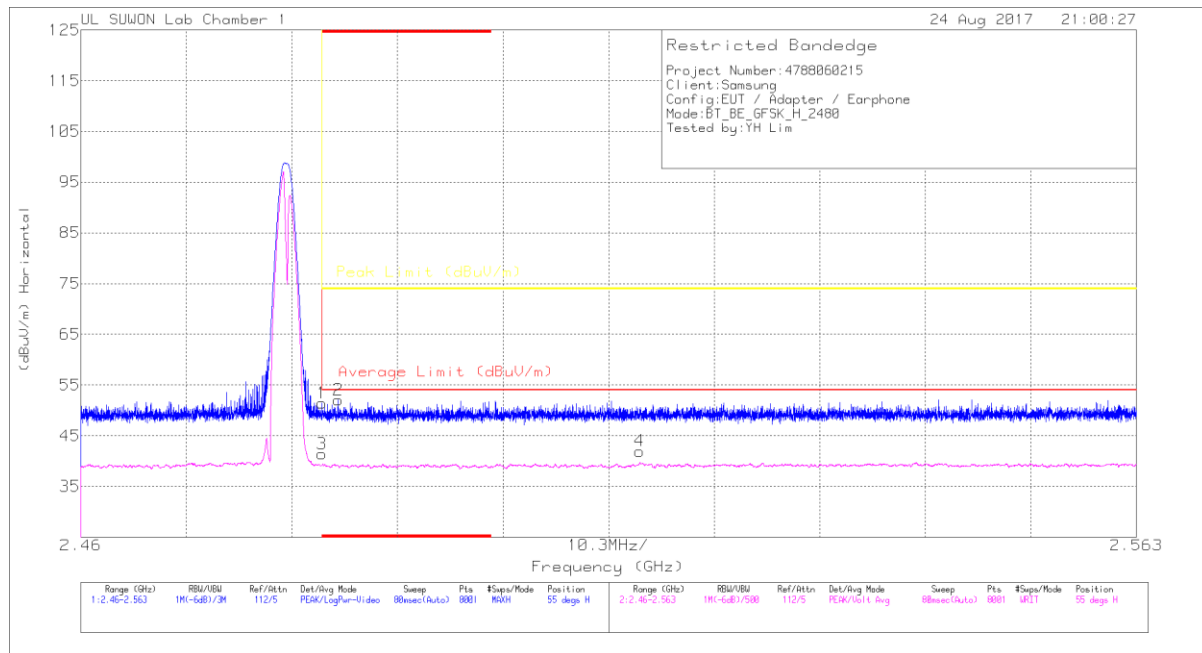
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_0016 8717	3GHz_HP(dB)_170809	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.96	30.45	PK	33.8	-31.6	32.65	-	-	74	-41.35	0-360	150	H
4	* 7.437	28.09	PK	35.9	-27.2	36.79	-	-	74	-37.21	0-360	150	H
5	9.923	23.6	PK	37.1	-22.4	38.3	-	-	74	-35.7	0-360	150	H
2	* 4.956	31.44	PK	33.8	-31.7	33.54	-	-	74	-40.46	0-360	250	V
3	* 7.425	28.29	PK	35.9	-27.1	37.09	-	-	74	-36.91	0-360	250	V
6	9.927	23.43	PK	37.1	-22.3	38.23	-	-	74	-35.77	0-360	150	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).

10.3. BANDEDGE (on Worst case) equipped with protective case



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_00 168717	10dB_ATT(dB)_17080 9	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	45.35	Pk	31.6	-25.5	51.45	-	-	74	-22.55	55	108	H
2	* 2.485	45.98	Pk	31.6	-25.5	52.08	-	-	74	-21.92	55	108	H
3	* 2.484	33.04	VA1T	31.6	-25.5	39.14	54	-14.86	-	-	55	108	H
4	2.515	33.4	VA1T	31.6	-25.3	39.7	54	-14.3	-	-	55	108	H

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

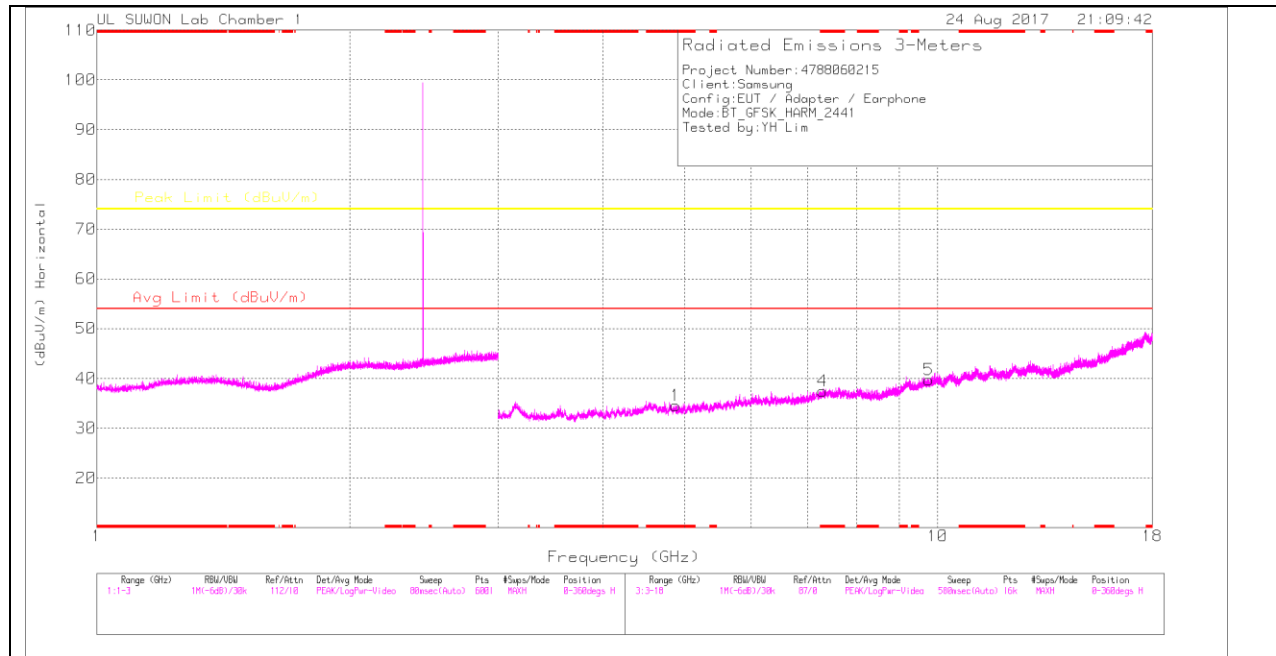
Pk - Peak detector

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

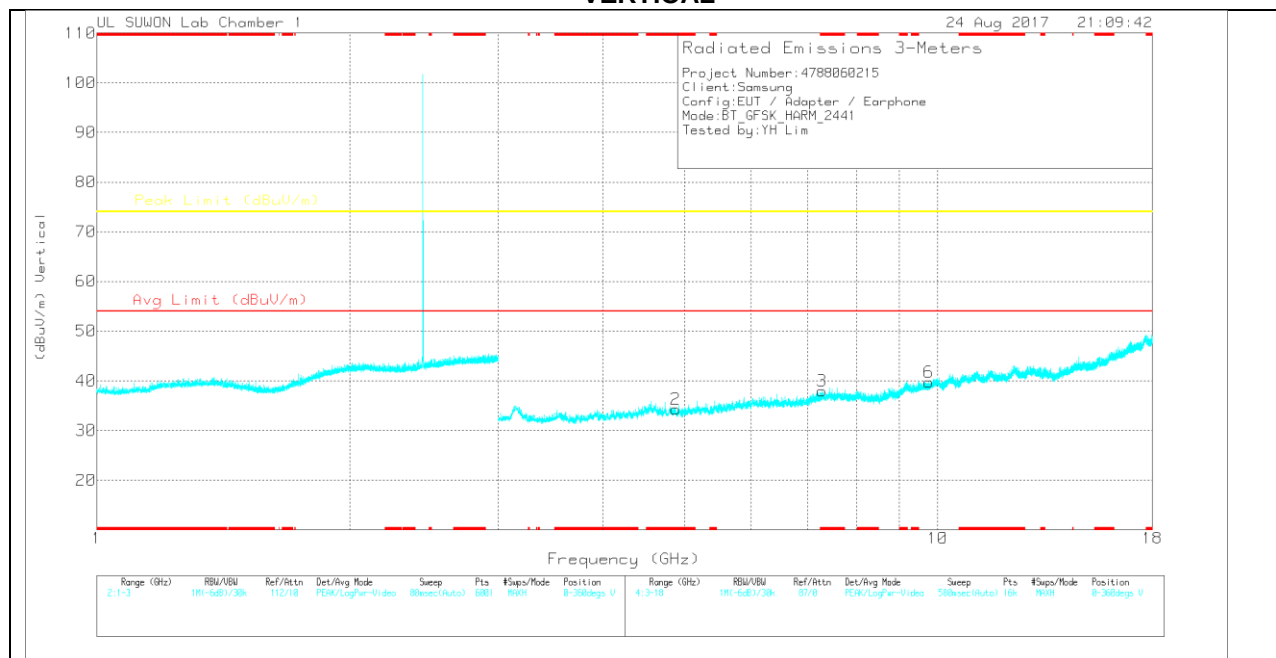
Note : Noise floor level.(Both stand-alone and equipped with protective case condition)

10.4. HARMONICS AND SPURIOUS EMISSIONS (on Worst case) equipped with protective case

HORIZONTAL



VERTICAL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_0016 8717	3GHz_HP(d B)_170809	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.88	32.41	PK	33.8	-31.7	34.51	-	-	74	-39.49	0-360	150	H
4	* 7.293	29.3	PK	35.9	-27.8	37.4	-	-	74	-36.6	0-360	250	H
5	9.753	27.02	PK	36.9	-24.2	39.72	-	-	74	-34.28	0-360	150	H
2	* 4.878	32.15	PK	33.8	-31.7	34.25	-	-	74	-39.75	0-360	250	V
3	* 7.29	29.84	PK	35.9	-27.8	37.94	-	-	74	-36.06	0-360	250	V
6	9.752	27.07	PK	36.9	-24.2	39.77	-	-	74	-34.23	0-360	150	V

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

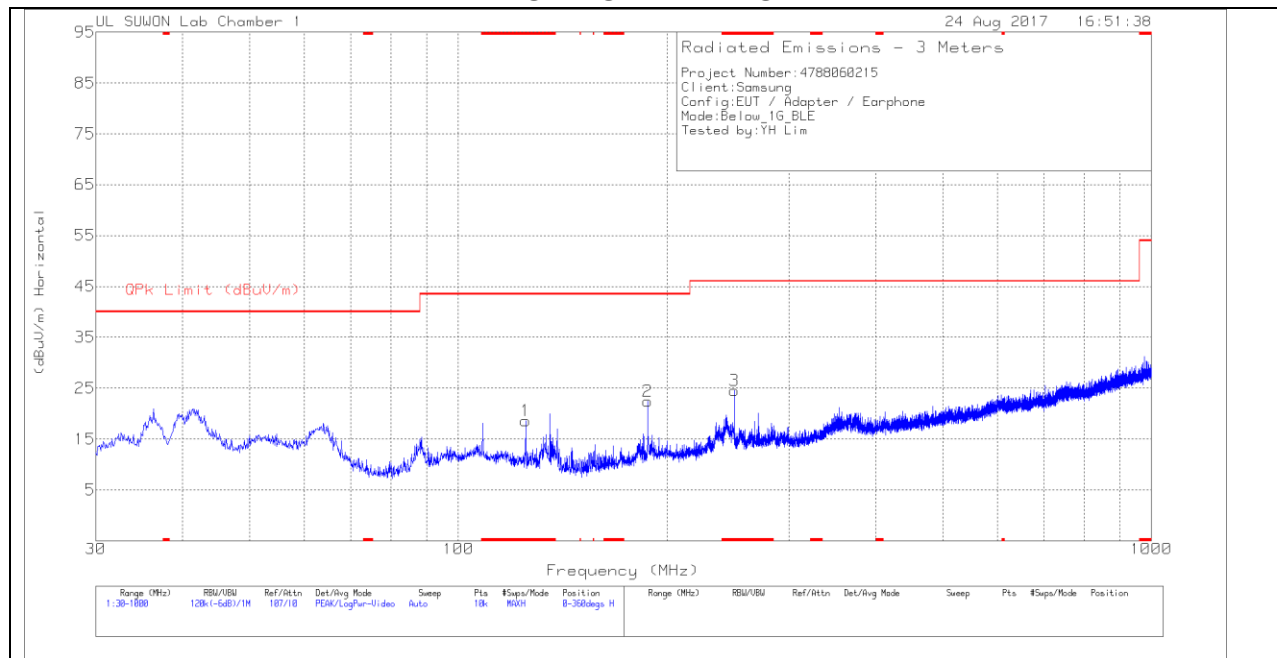
PK – Peak detector

Note : Noise floor level.(Both stand-alone and equipped with protective case condition)

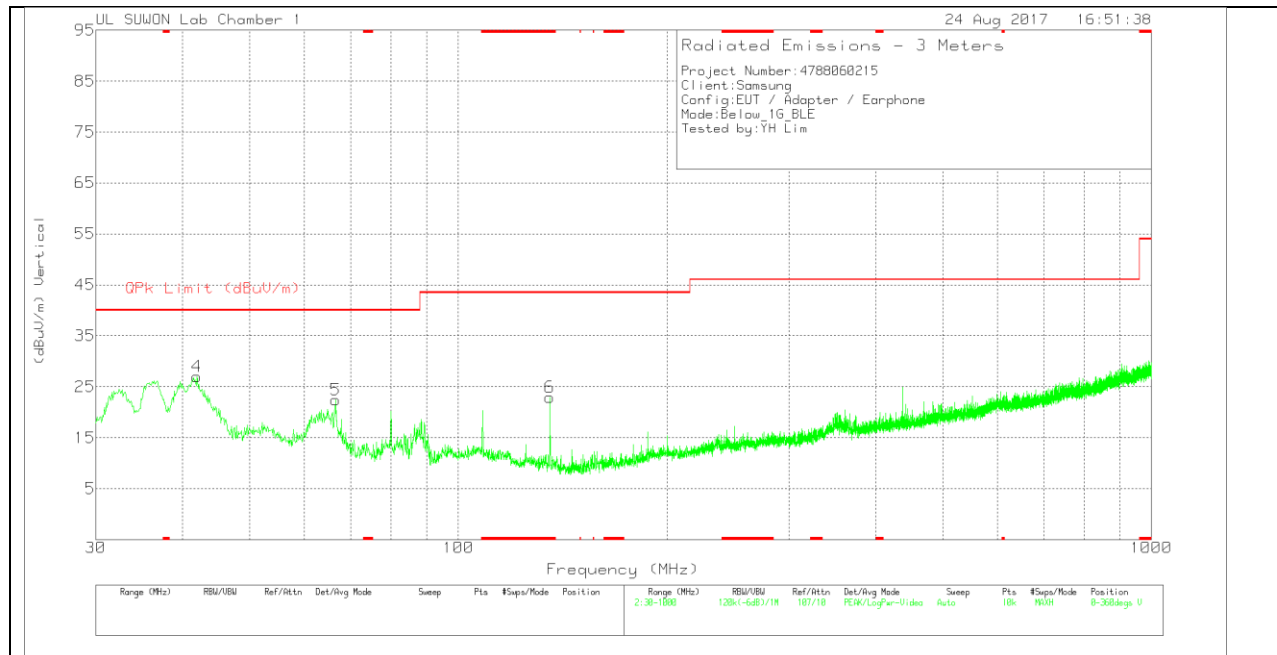
10.5. WORST-CASE BELOW 1 GHz

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_75 0(dB)	30-1000MHz[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 125.06	37.69	Pk	9.1	-28.2	18.59	43.52	-24.93	0-360	300	H
2	187.625	39.92	Pk	10.1	-27.6	22.42	43.52	-21.1	0-360	200	H
3	* 250.287	39.75	Pk	12.2	-27.4	24.55	46.02	-21.47	0-360	100	H
4	41.931	43.53	Pk	12.9	-29.4	27.03	40	-12.97	0-360	100	V
5	66.569	40.65	Pk	10.7	-28.9	22.45	40	-17.55	0-360	100	V
6	* 135.536	42.78	Pk	8.1	-28	22.88	43.52	-20.64	0-360	100	V

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

Pk - Peak detector

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)
IC RSS-GEN Clause 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.

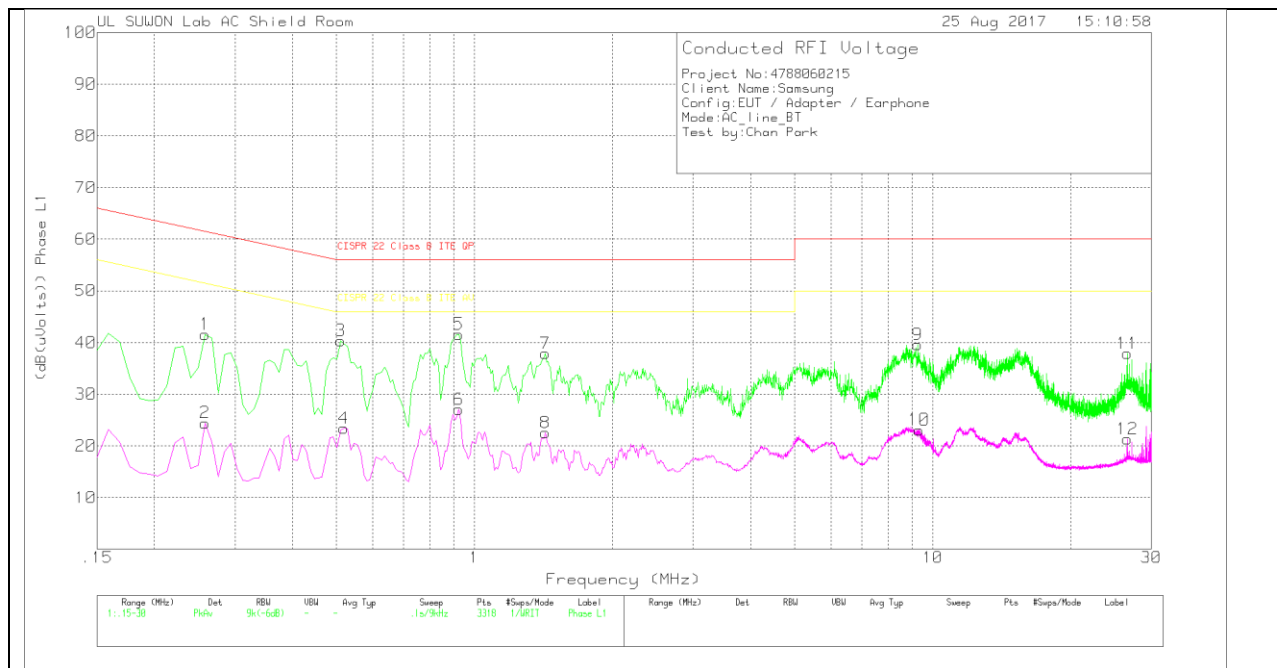
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

WORST EMISSIONS

LINE 1 PLOT



LINE 1 RESULTS

Trace Markers

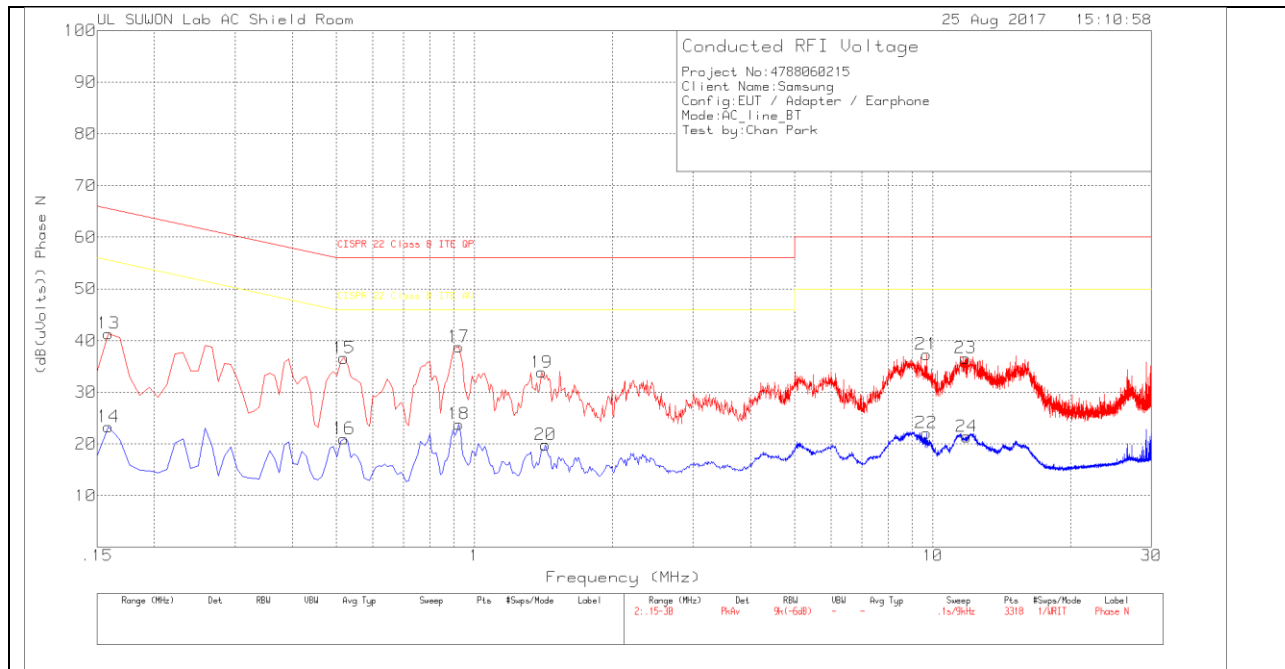
Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101837_L 1_with extension	CABLELOS S(dB)	Corrected Reading (dB(uVolts))	CISPR 22 Class B ITE QP	Margin (dB)	CISPR 22 Class B ITE AV	Margin (dB)
1	.258	31.9	Pk	9.5	.2	41.6	61.5	-19.9	-	-
2	.258	14.74	Av	9.5	.2	24.44	-	-	51.5	-27.06
3	.51	30.46	Pk	9.7	.2	40.36	56	-15.64	-	-
4	.519	13.48	Av	9.7	.2	23.38	-	-	46	-22.62
5	.924	31.58	Pk	9.7	.3	41.58	56	-14.42	-	-
6	.924	17.04	Av	9.7	.3	27.04	-	-	46	-18.96
7	1.428	27.67	Pk	9.9	.3	37.87	56	-18.13	-	-
8	1.428	12.37	Av	9.9	.3	22.57	-	-	46	-23.43
9	9.267	29.47	Pk	9.7	.4	39.57	60	-20.43	-	-
10	9.33	13	Av	9.7	.4	23.1	-	-	50	-26.9
11	26.61	27.27	Pk	10.3	.3	37.87	60	-22.13	-	-
12	26.61	10.75	Av	10.3	.3	21.35	-	-	50	-28.65

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_N _with extension	CABLELOS S(dB)	Corrected Reading (dB(uVolts)	CISPR 22 Class B ITE QP	Margin (dB)	CISPR 22 Class B ITE AV	Margin (dB)
13	.159	31.26	Pk	10	.1	41.36	65.52	-24.16	-	-
14	.159	13.23	Av	10	.1	23.33	-	-	55.52	-32.19
15	.519	26.63	Pk	9.8	.2	36.63	56	-19.37	-	-
16	.519	11.03	Av	9.8	.2	21.03	-	-	46	-24.97
17	.924	28.7	Pk	9.8	.3	38.8	56	-17.2	-	-
18	.924	13.74	Av	9.8	.3	23.84	-	-	46	-22.16
19	1.401	23.69	Pk	9.9	.3	33.89	56	-22.11	-	-
20	1.428	9.63	Av	9.9	.3	19.83	-	-	46	-26.17
21	9.681	27.15	Pk	9.8	.4	37.35	60	-22.65	-	-
22	9.681	11.93	Av	9.8	.4	22.13	-	-	50	-27.87
23	11.787	26.52	Pk	9.8	.3	36.62	60	-23.38	-	-
24	11.868	11.32	Av	9.8	.3	21.42	-	-	50	-28.58

Pk - Peak detector

Av - Average detection