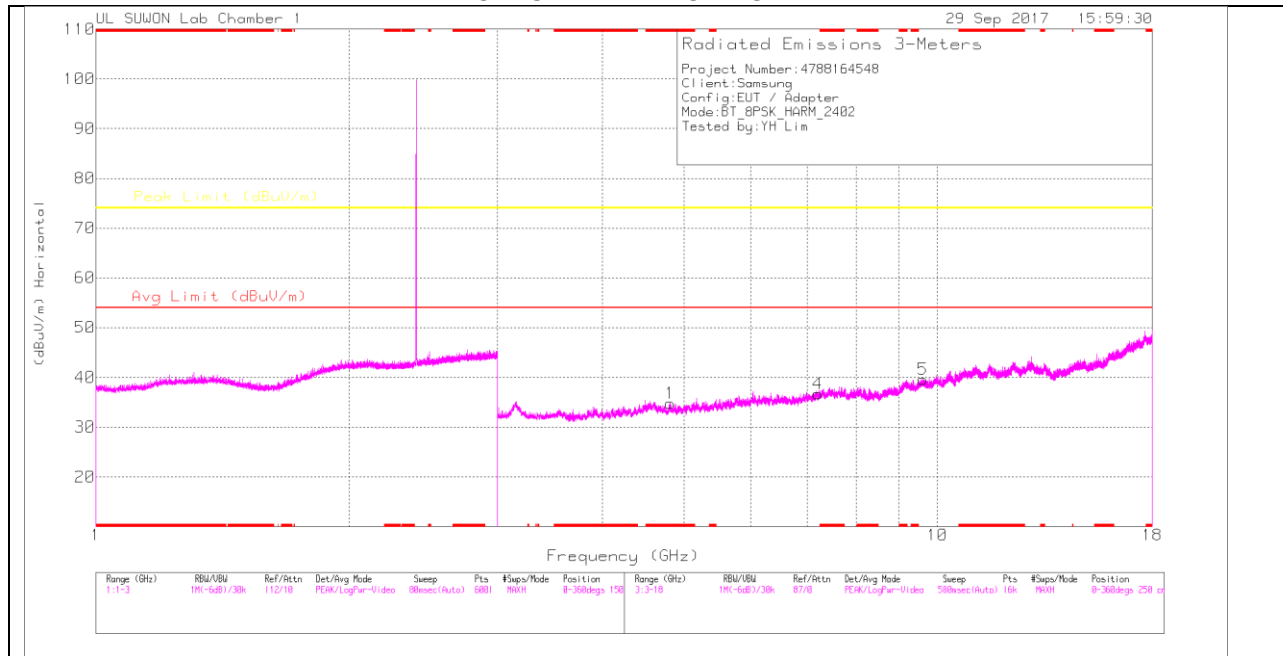
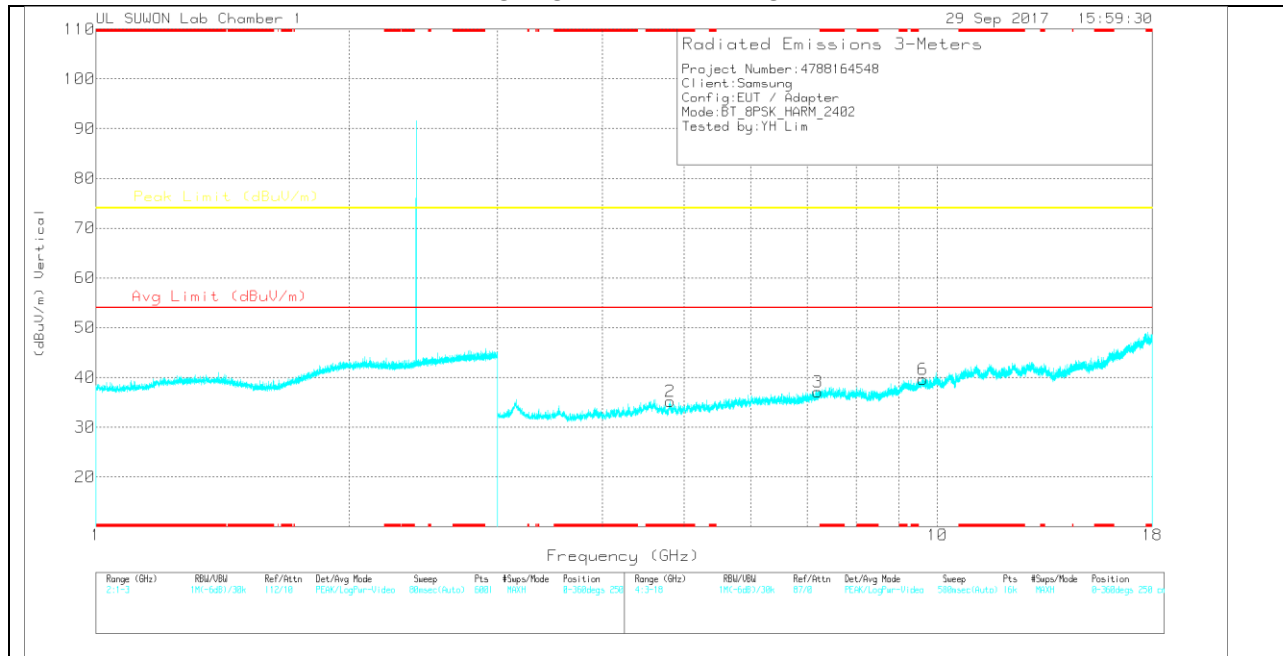


HARMONICS AND SPURIOUS EMISSIONS

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

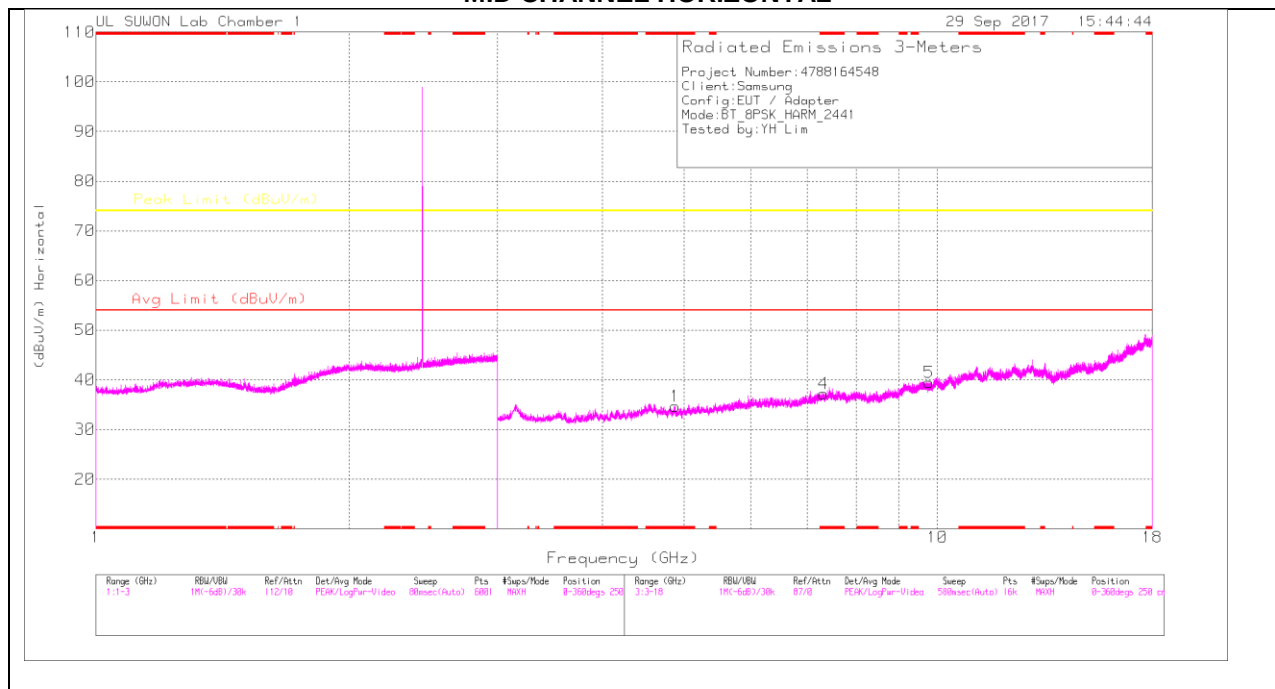
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_0 0168717	3GHz_HP(dB)_170 809	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.811	32.62	PK	33.8	-31.6	34.82	-	-	74	-39.18	0-360	150	H
4	7.207	28.84	PK	35.9	-28.1	36.64	-	-	74	-37.36	0-360	250	H
5	9.601	26.39	PK	36.7	-23.5	39.59	-	-	74	-34.41	0-360	250	H
2	* 4.814	32.93	PK	33.8	-31.6	35.13	-	-	74	-38.87	0-360	250	V
3	7.206	29.22	PK	35.9	-28.1	37.02	-	-	74	-36.98	0-360	150	V
6	9.601	26.43	PK	36.7	-23.5	39.63	-	-	74	-34.37	0-360	150	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

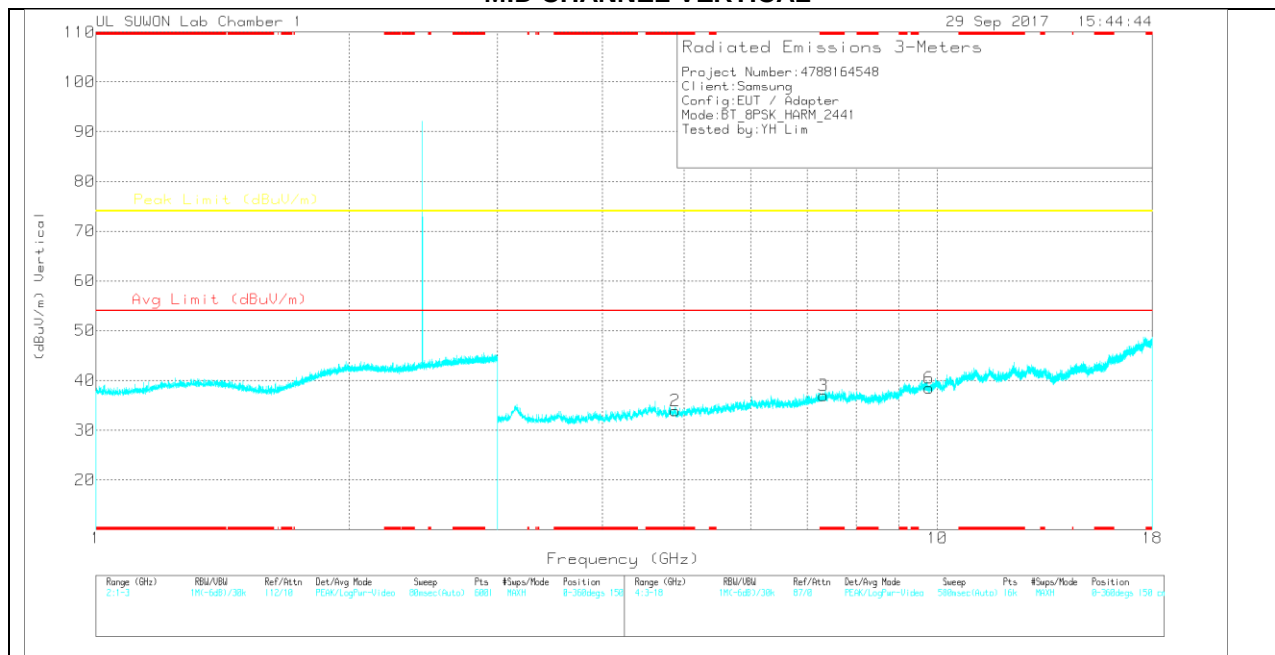
PK – Peak detector

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

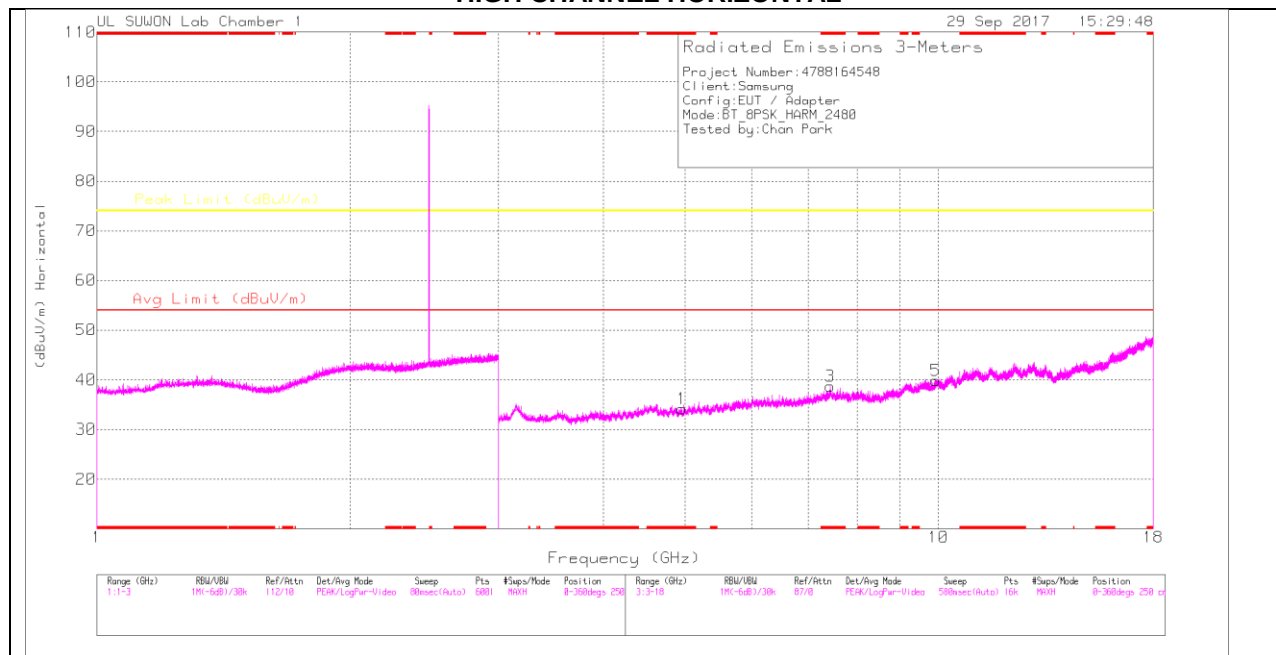
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	20170531_3117_0 0168717	3GHz_HP(dB)_170 809	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.88	32.53	PK	33.8	-31.7	34.63	-	-	74	-39.37	0-360	250	H
4	* 7.323	28.94	PK	35.9	-27.6	37.24	-	-	74	-36.76	0-360	150	H
5	9.774	26.79	PK	36.9	-24.2	39.49	-	-	74	-34.51	0-360	250	H
2	* 4.882	31.8	PK	33.8	-31.7	33.9	-	-	74	-40.1	0-360	150	V
3	* 7.325	28.59	PK	35.9	-27.5	36.99	-	-	74	-37.01	0-360	250	V
6	9.775	25.79	PK	36.9	-24.2	38.49	-	-	74	-35.51	0-360	250	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

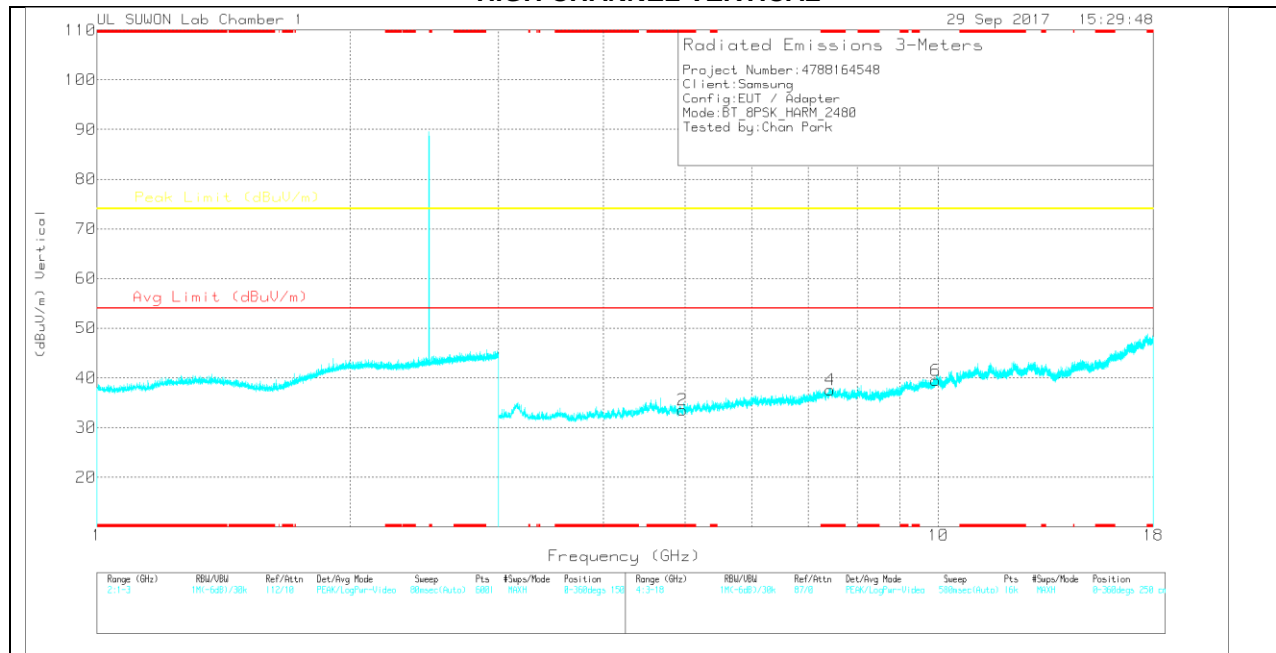
PK – Peak detector

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_0 0168717	3GHz_HP(dB)_170 809	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.958	32.03	PK	33.8	-31.7	34.13	-	-	74	-39.87	0-360	250	H
3	* 7.435	29.89	PK	35.9	-27.1	38.69	-	-	74	-35.31	0-360	150	H
5	9.925	25.04	PK	37.1	-22.3	39.84	-	-	74	-34.16	0-360	250	H
2	* 4.964	31.49	PK	33.8	-31.7	33.59	-	-	74	-40.41	0-360	250	V
4	* 7.442	28.9	PK	35.9	-27.2	37.6	-	-	74	-36.4	0-360	250	V
6	9.924	24.58	PK	37.1	-22.2	39.48	-	-	74	-34.52	0-360	150	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

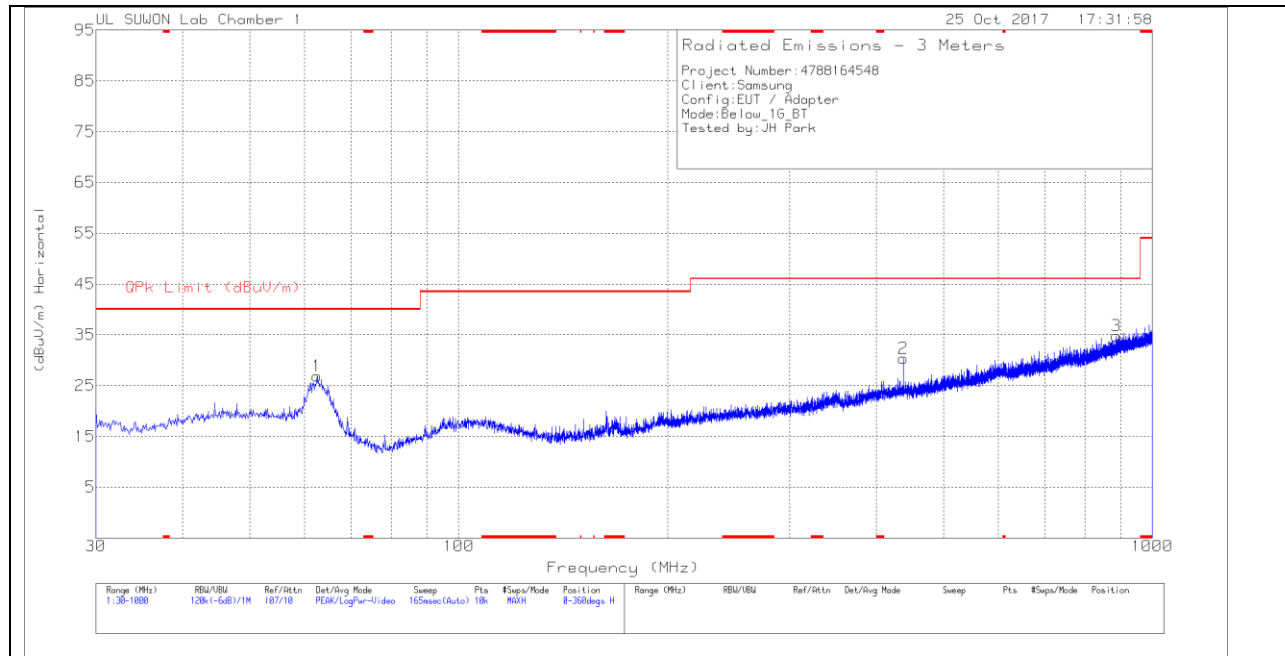
PK – Peak detector

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

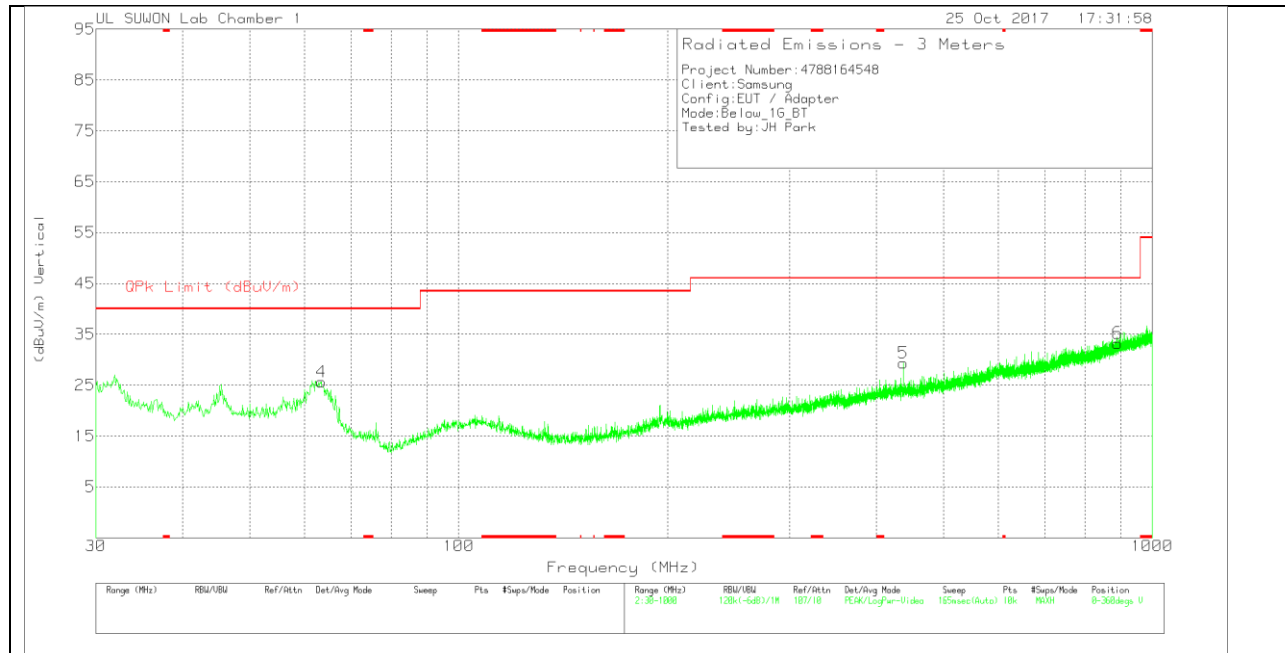
10.3. WORST-CASE BELOW 1 GHz

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	750_20170831	30-1000MHz[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	62.495	38.44	Pk	17.7	-29.3	26.84	40	-13.16	0-360	400	H
2	437.497	34.4	Pk	22	-26	30.4	46.02	-15.62	0-360	200	H
3	888.45	30.67	Pk	27.8	-23.7	34.77	46.02	-11.25	0-360	100	H
4	63.368	37.37	Pk	17.4	-29.1	25.67	40	-14.33	0-360	100	V
5	437.594	33.31	Pk	22	-26	29.31	46.02	-16.71	0-360	100	V
6	891.748	28.95	Pk	27.9	-23.6	33.25	46.02	-12.77	0-360	300	V

Pk - Peak detector

11. 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.

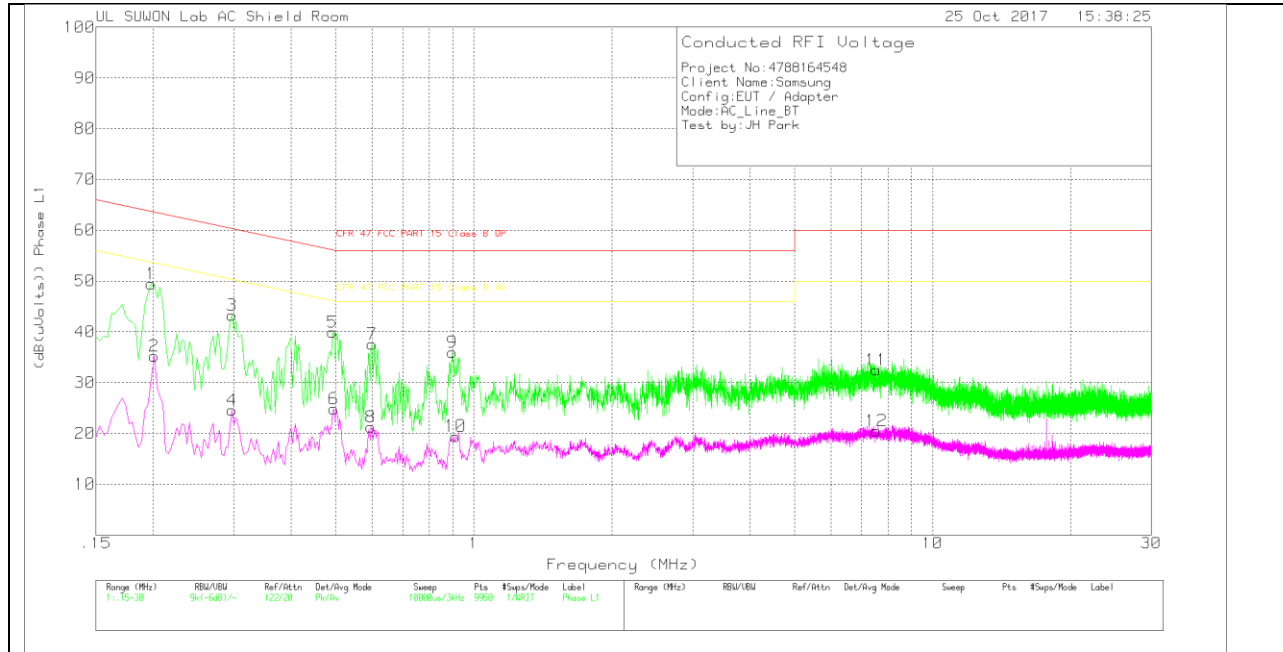
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

WORST EMISSIONS

LINE 1 PLOT



LINE 1 RESULTS

Trace Markers

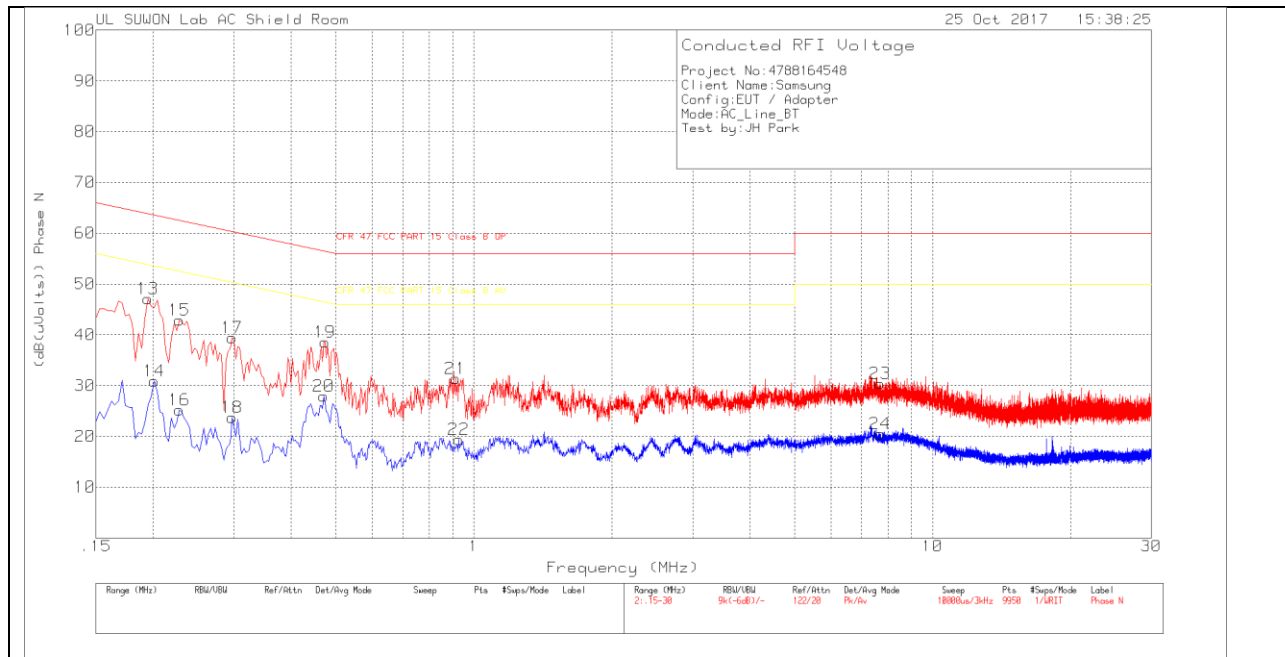
Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101837_L1_wit h extension	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
1	.198	39.46	Pk	9.8	.2	49.46	63.69	-14.23	-	-
2	.201	25.24	Av	9.8	.2	35.24	-	-	53.57	-18.33
3	.297	33.47	Pk	9.6	.2	43.27	60.33	-17.06	-	-
4	.297	14.78	Av	9.6	.2	24.58	-	-	50.33	-25.75
5	.492	30.03	Pk	9.7	.2	39.93	56.13	-16.2	-	-
6	.495	14.94	Av	9.7	.2	24.84	-	-	46.08	-21.24
7	.6	27.53	Pk	9.8	.2	37.53	56	-18.47	-	-
8	.597	11.3	Av	9.8	.2	21.3	-	-	46	-24.7
9	.897	25.94	Pk	9.7	.3	35.94	56	-20.06	-	-
10	.912	9.45	Av	9.7	.3	19.45	-	-	46	-26.55
11	7.536	22.53	Pk	9.7	.3	32.53	60	-27.47	-	-
12	7.551	10.45	Av	9.7	.3	20.45	-	-	50	-29.55

Pk - Peak detector

Av - Average detection

LINE 2 PLOT



LINE 2 RESULTS

Trace Markers

Range 2: Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101837_N_with extension	CABLELOSS(dB)	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
13	.195	36.96	Pk	9.9	.2	47.06	63.82	-16.76	-	-
14	.201	20.85	Av	9.8	.2	30.85	-	-	53.57	-22.72
15	.228	33.04	Pk	9.7	.2	42.94	62.52	-19.58	-	-
16	.228	15.27	Av	9.7	.2	25.17	-	-	52.52	-27.35
17	.297	29.48	Pk	9.7	.2	39.38	60.33	-20.95	-	-
18	.297	13.82	Av	9.7	.2	23.72	-	-	50.33	-26.61
19	.474	28.52	Pk	9.8	.2	38.52	56.44	-17.92	-	-
20	.471	17.9	Av	9.8	.2	27.9	-	-	46.5	-18.6
21	.912	21.3	Pk	9.8	.3	31.4	56	-24.6	-	-
22	.927	9.24	Av	9.8	.3	19.34	-	-	46	-26.66
23	7.677	20.35	Pk	9.8	.3	30.45	60	-29.55	-	-
24	7.683	10.38	Av	9.8	.3	20.48	-	-	50	-29.52

Pk - Peak detector

Av - Average detection