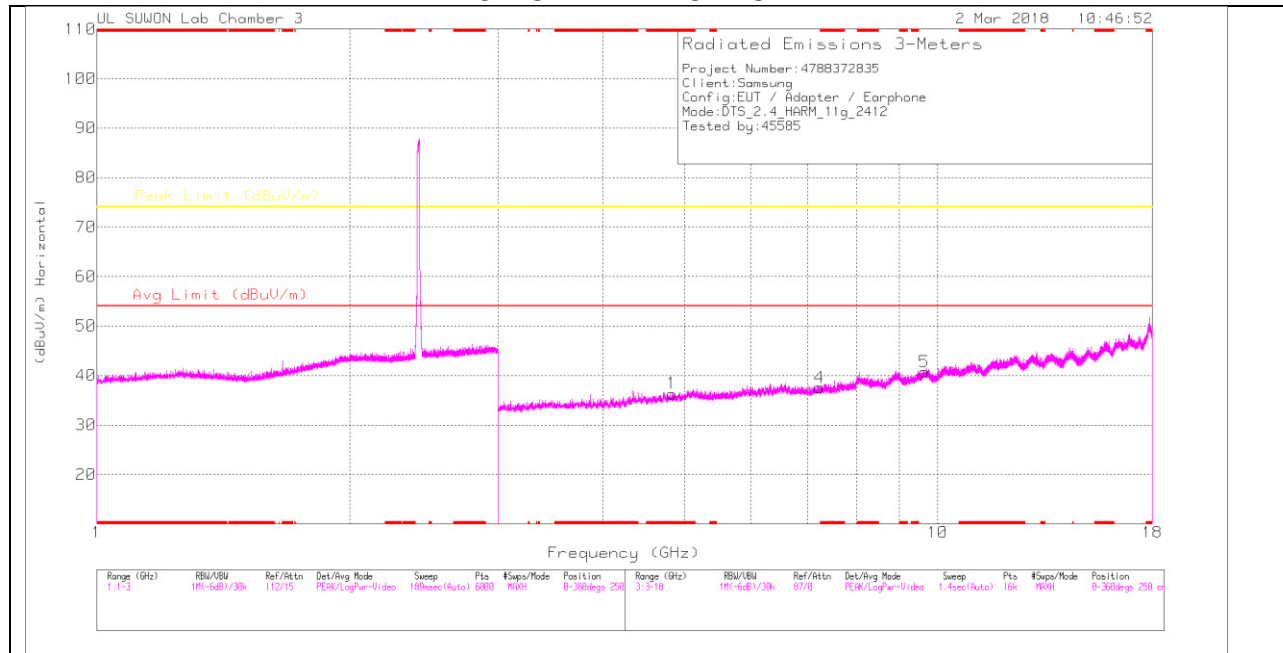
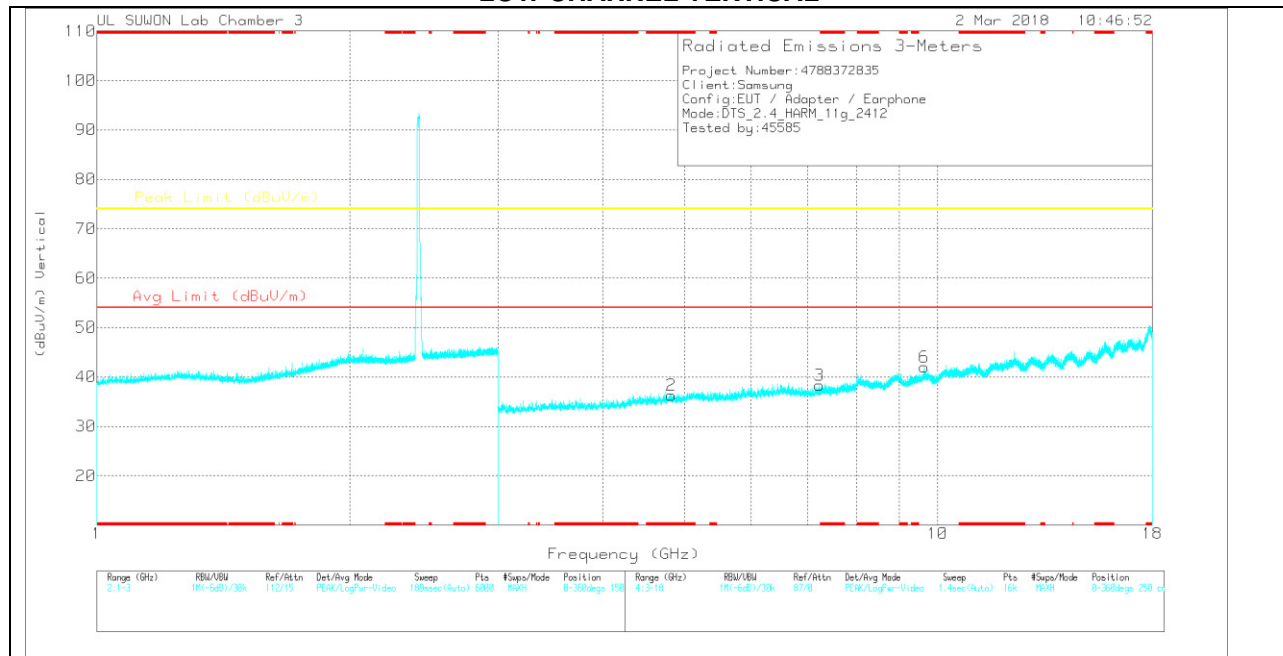


HARMONICS AND SPURIOUS EMISSIONS

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

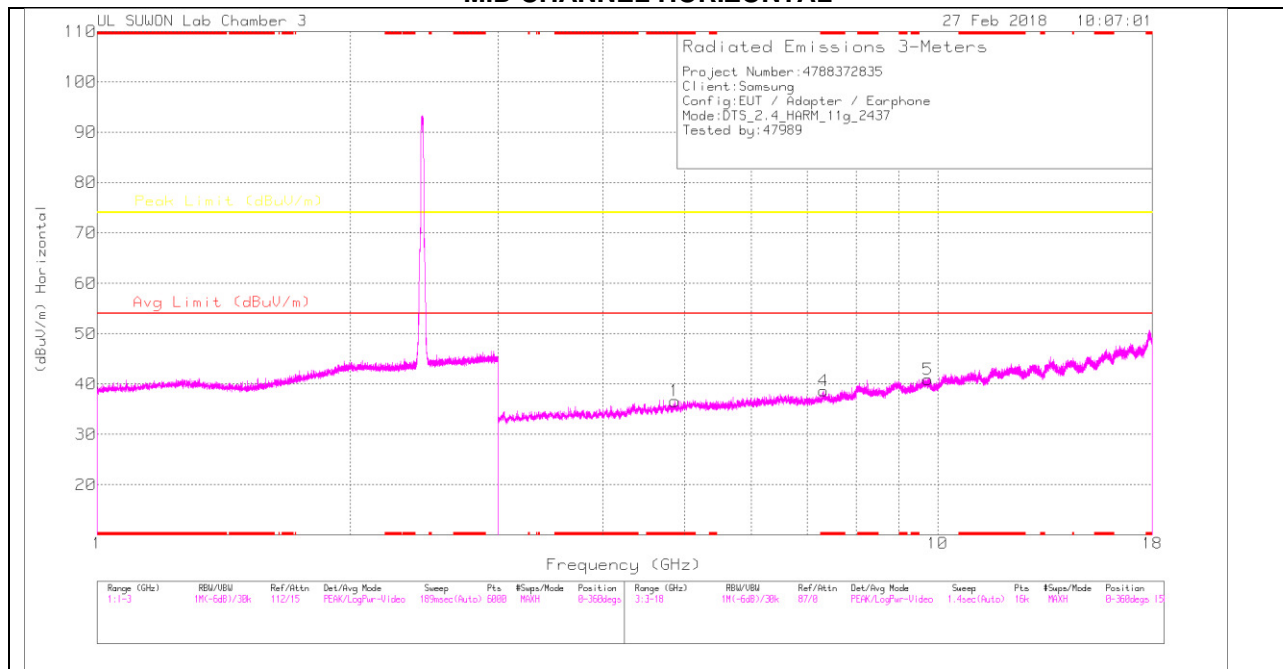
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00205959)	3GHz_HP(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.828	30.75	PK	34	-28.4	0	36.35	-	-	74	-37.65	0-360	250	H
4	7.235	25.82	PK	35.6	-23.9	0	37.52	-	-	74	-36.48	0-360	250	H
5	9.642	23.72	PK	36.7	-19.7	0	40.72	-	-	74	-33.28	0-360	250	H
2	* 4.819	30.61	PK	34	-28.3	0	36.31	-	-	74	-37.69	0-360	150	V
3	7.23	26.58	PK	35.6	-23.9	0	38.28	-	-	74	-35.72	0-360	150	V
6	9.648	25	PK	36.7	-19.7	0	42	-	-	74	-32	0-360	150	V

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

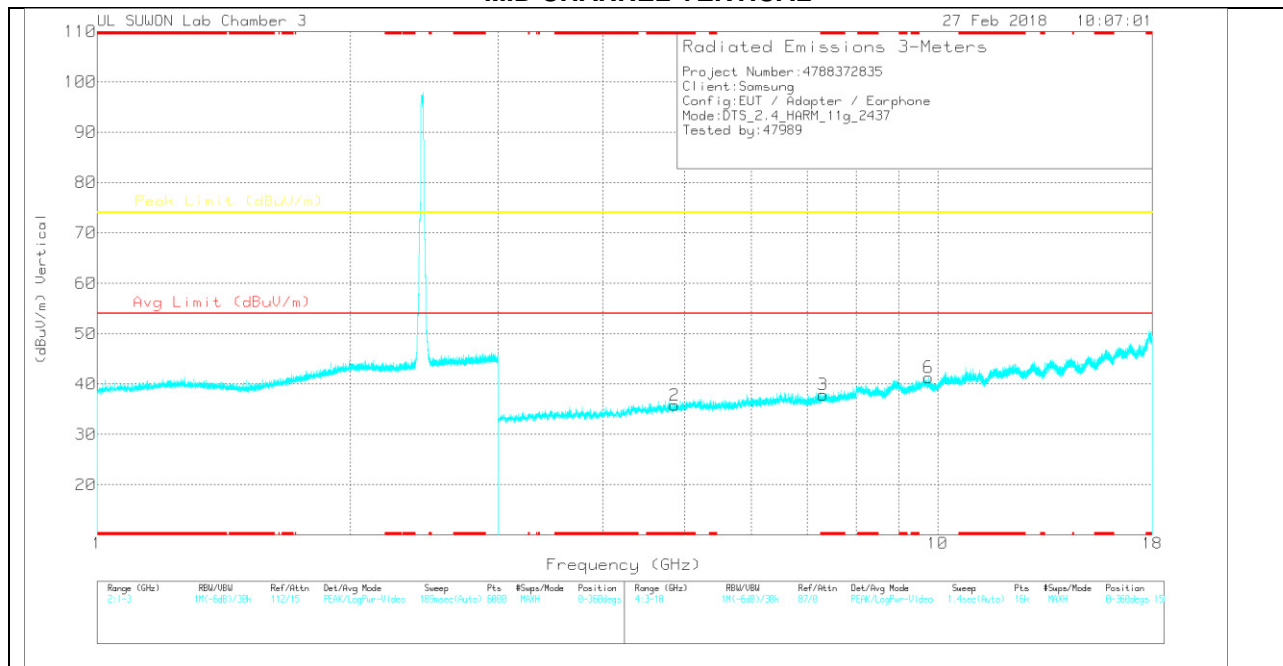
PK – Peak Detector

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

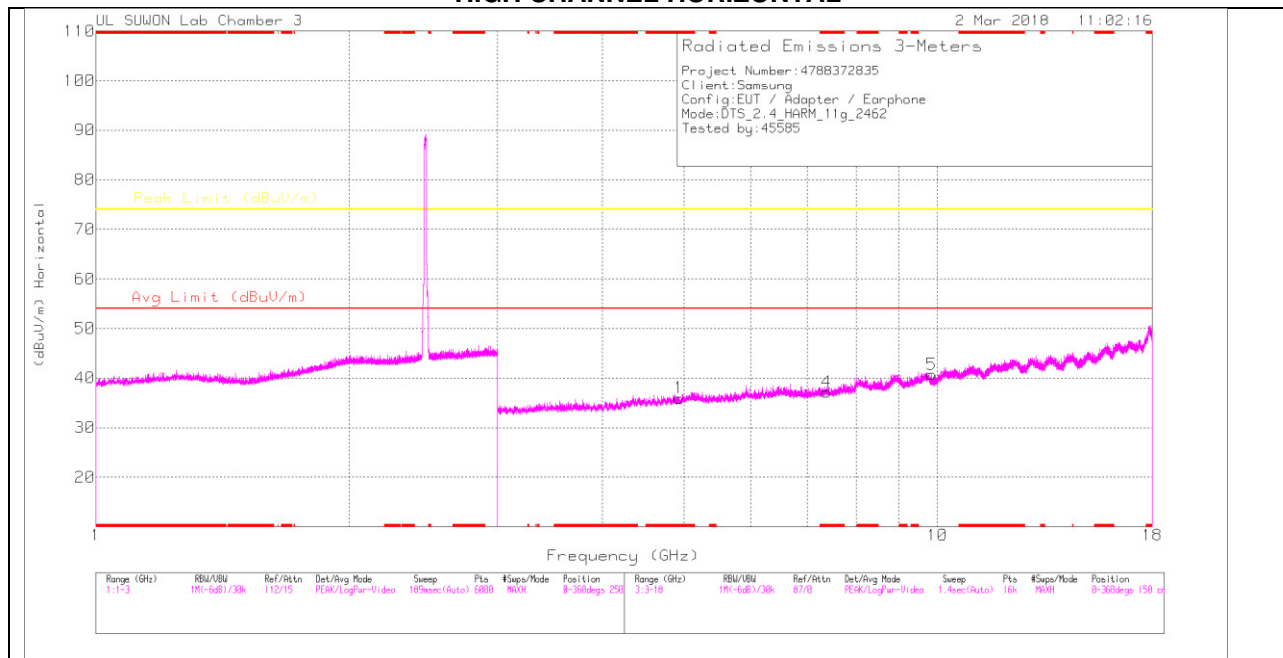
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00205958)	3GHz_HP[dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.869	31.41	PK	34	-28.8	0	36.61	-	-	74	-37.39	0-360	250	H
4	* 7.311	26.55	PK	35.6	-23.5	0	38.65	-	-	74	-35.35	0-360	250	H
5	9.741	23.51	PK	36.9	-19.5	0	40.91	-	-	74	-33.09	0-360	150	H
2	* 4.868	30.58	PK	34	-28.8	0	35.78	-	-	74	-38.22	0-360	150	V
3	* 7.302	25.96	PK	35.6	-23.7	0	37.86	-	-	74	-36.14	0-360	250	V
6	9.748	23.89	PK	36.9	-19.5	0	41.29	-	-	74	-32.71	0-360	150	V

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

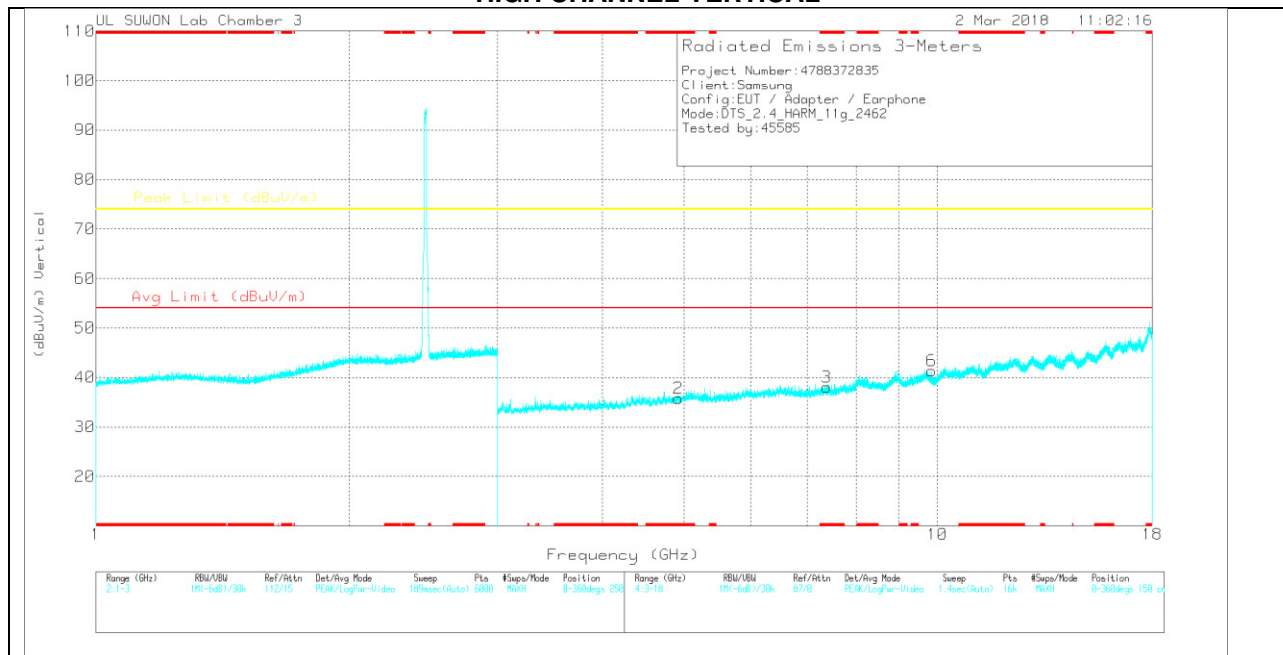
PK – Peak detector

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

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(00205958)	3GHz_HP[dB]	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	* 4.927	30.87	PK	34	-28.9	0	35.97	-	-	74	-38.03	0-360	150	H
4	* 7.386	24.54	PK	35.6	-23	0	37.14	-	-	74	-36.86	0-360	250	H
5	9.848	23.44	PK	37	-19.7	0	40.74	-	-	74	-33.26	0-360	150	H
2	* 4.923	30.7	PK	34	-28.9	0	35.8	-	-	74	-38.2	0-360	150	V
3	* 7.385	25.45	PK	35.6	-23	0	38.05	-	-	74	-35.95	0-360	150	V
6	9.848	24.07	PK	37	-19.7	0	41.37	-	-	74	-32.63	0-360	150	V

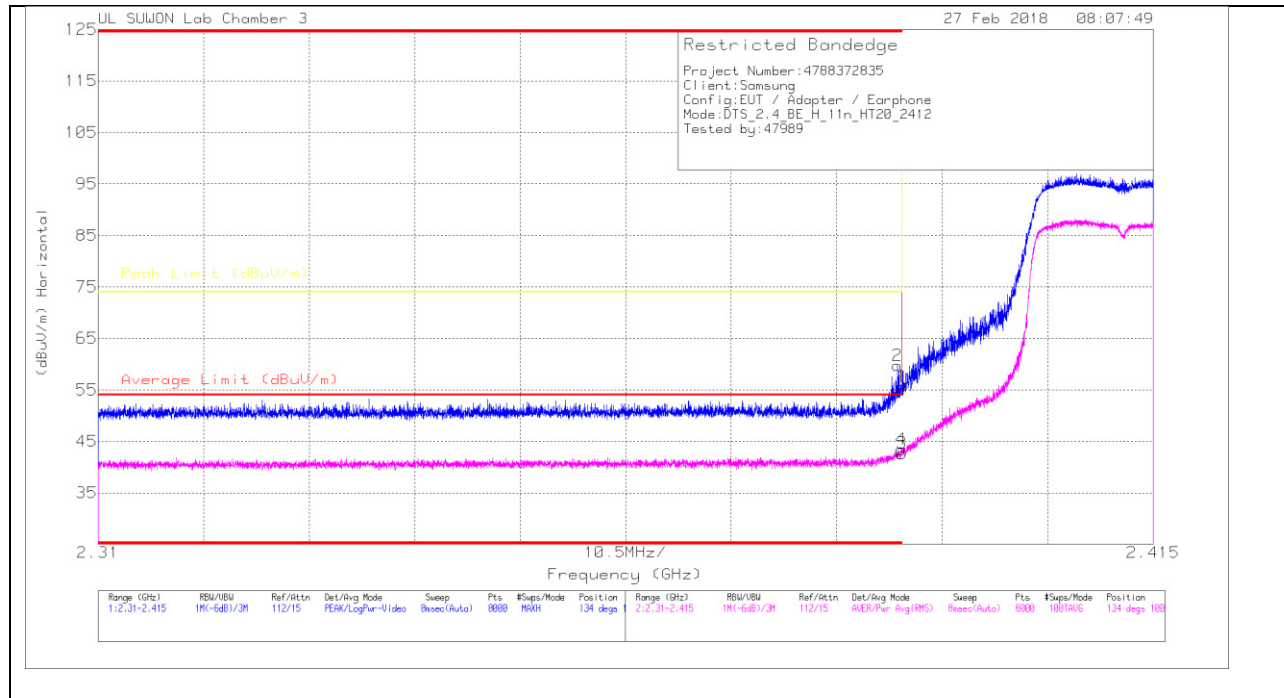
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector

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

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

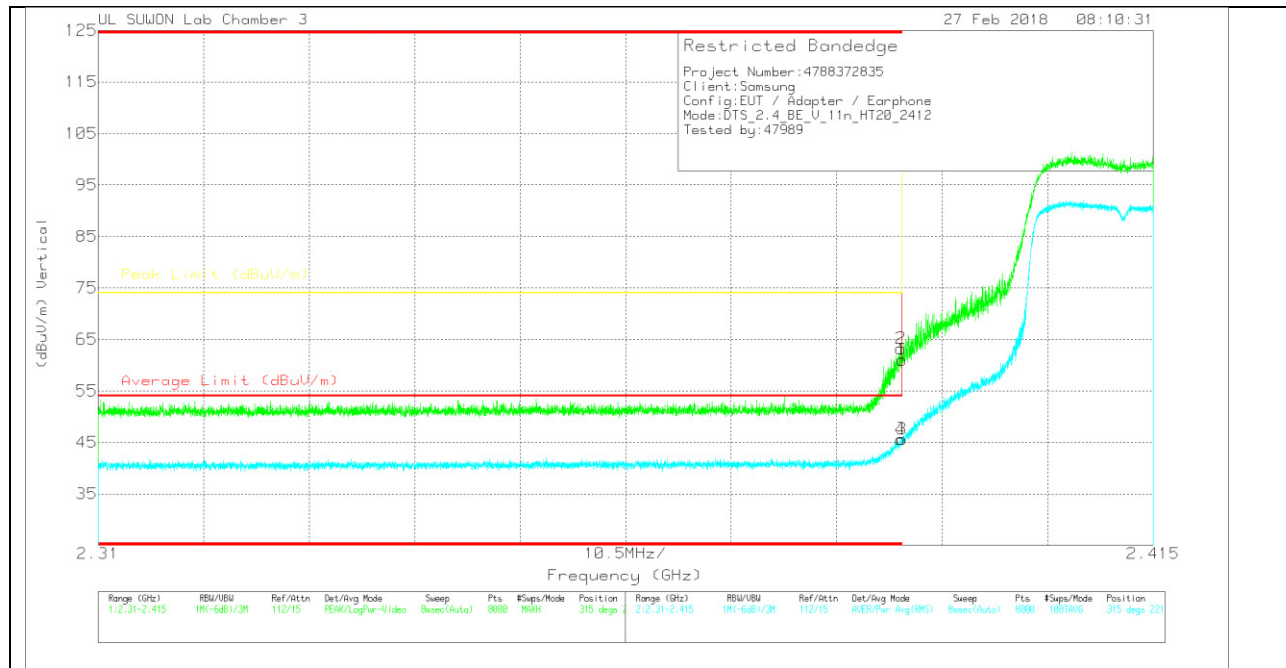
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117[00205959]	10dB_ATT[dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	47.11	Pk	31.8	-23.3	0	55.61	-	-	74	-18.39	134	100	H
2	* 2.39	51.23	Pk	31.8	-23.3	0	59.73	-	-	74	-14.27	134	100	H
3	* 2.39	34.18	RMS	31.8	-23.3	0	42.68	54	-11.32	-	-	134	100	H
4	* 2.39	34.94	RMS	31.8	-23.3	0	43.44	54	-10.56	-	-	134	100	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-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(00205959)	10dB_ATT(dB)	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	52.53	Pk	31.8	-23.3	0	61.03	-	-	74	-12.97	315	221	V
2	* 2.39	54.73	Pk	31.8	-23.3	0	63.23	-	-	74	-10.77	315	221	V
3	* 2.39	37.14	RMS	31.8	-23.3	0	45.64	54	-8.36	-	-	315	221	V
4	* 2.39	37.08	RMS	31.8	-23.3	0	45.58	54	-8.42	-	-	315	221	V

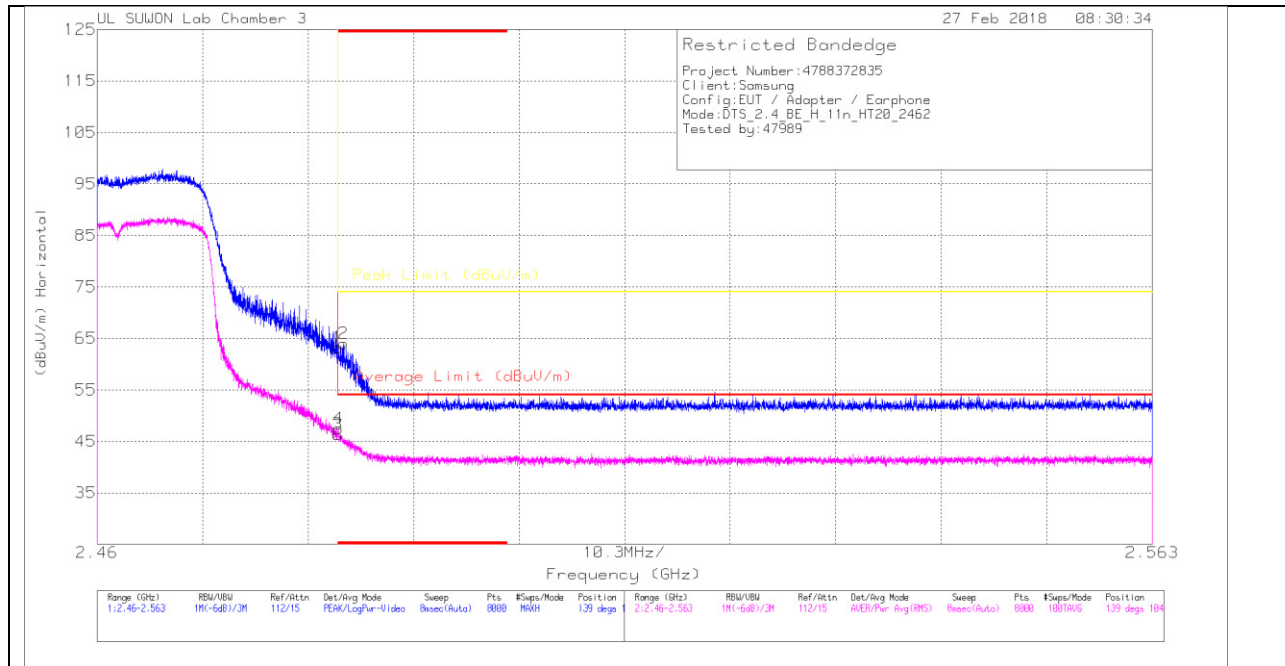
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

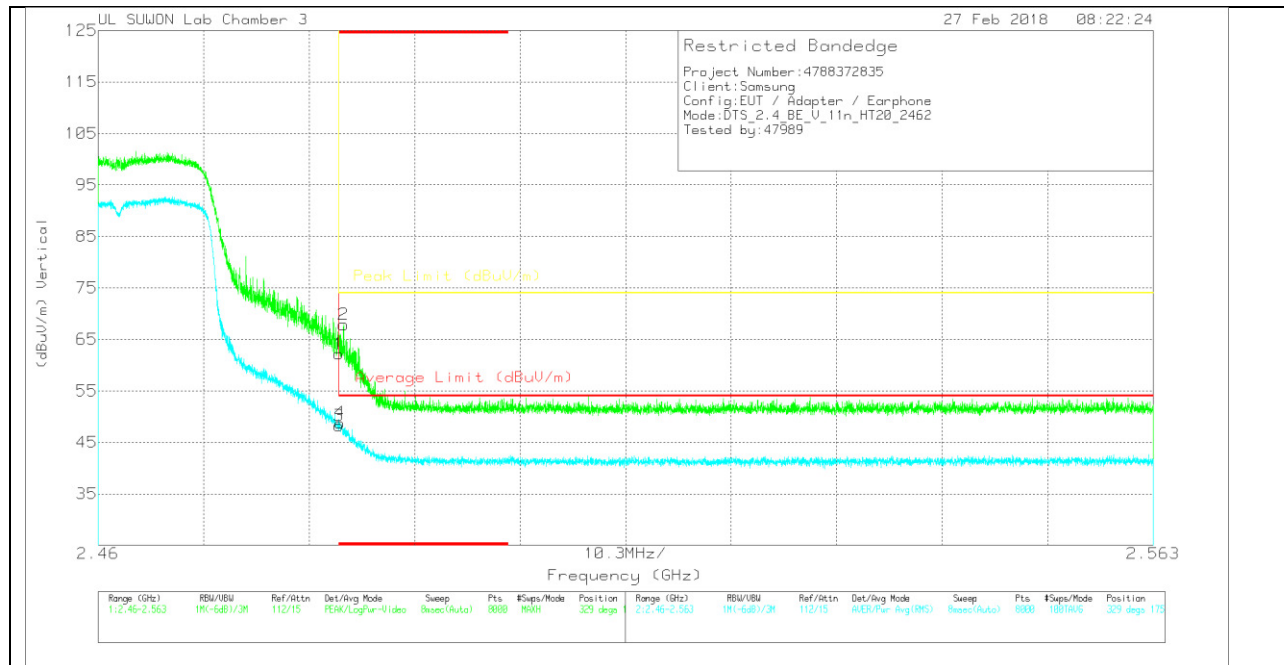
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117[00205959]	10dB_ATT[dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.484	54.13	Pk	32.1	-23	0	63.23	-	-	74	-10.77	139	104	H
2	* 2.484	54.99	Pk	32.1	-23.1	0	63.99	-	-	74	-10.01	139	104	H
3	* 2.484	37.25	RMS	32.1	-23	0	46.35	54	-7.65	-	-	139	104	H
4	* 2.484	38.42	RMS	32.1	-23	0	47.52	54	-6.48	-	-	139	104	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-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(00205959)	10dB_ATT(dB)	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	53.09	Pk	32.1	-23	0	62.19	-	-	74	-11.81	329	175	V
2	* 2.484	58.88	Pk	32.1	-23.1	0	67.88	-	-	74	-6.12	329	175	V
3	* 2.484	39.15	RMS	32.1	-23	0	48.25	54	-5.75	-	-	329	175	V
4	* 2.484	39.69	RMS	32.1	-23	0	48.79	54	-5.21	-	-	329	175	V

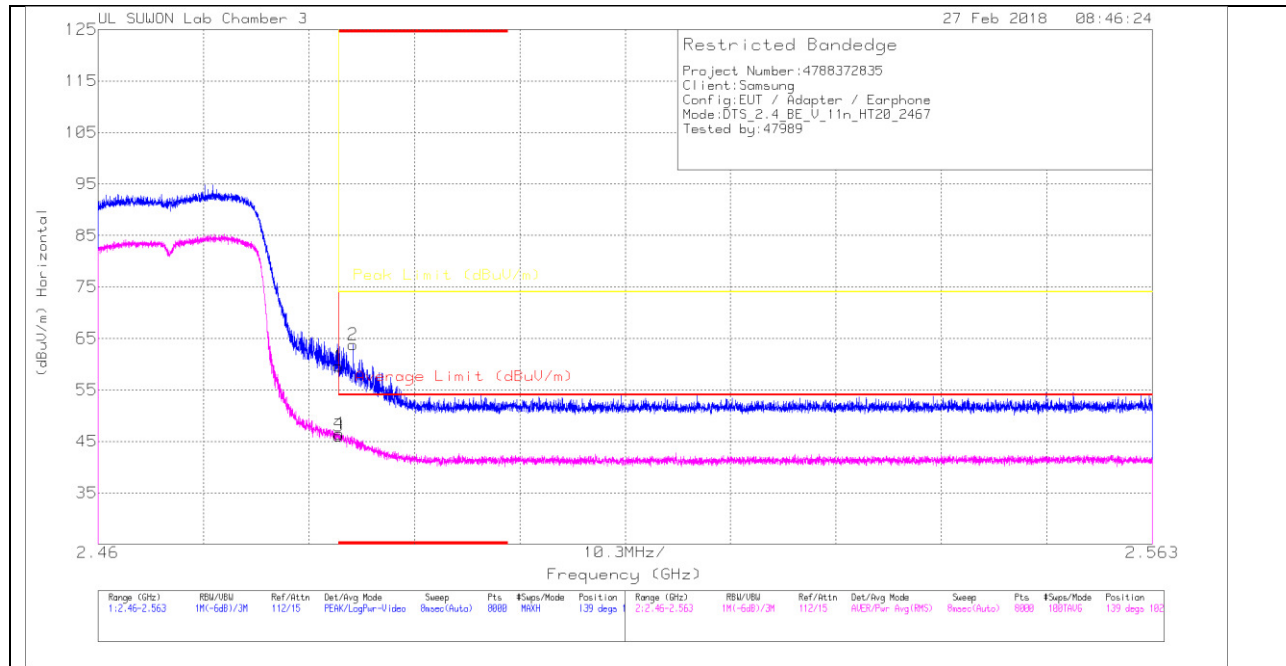
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (12 CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

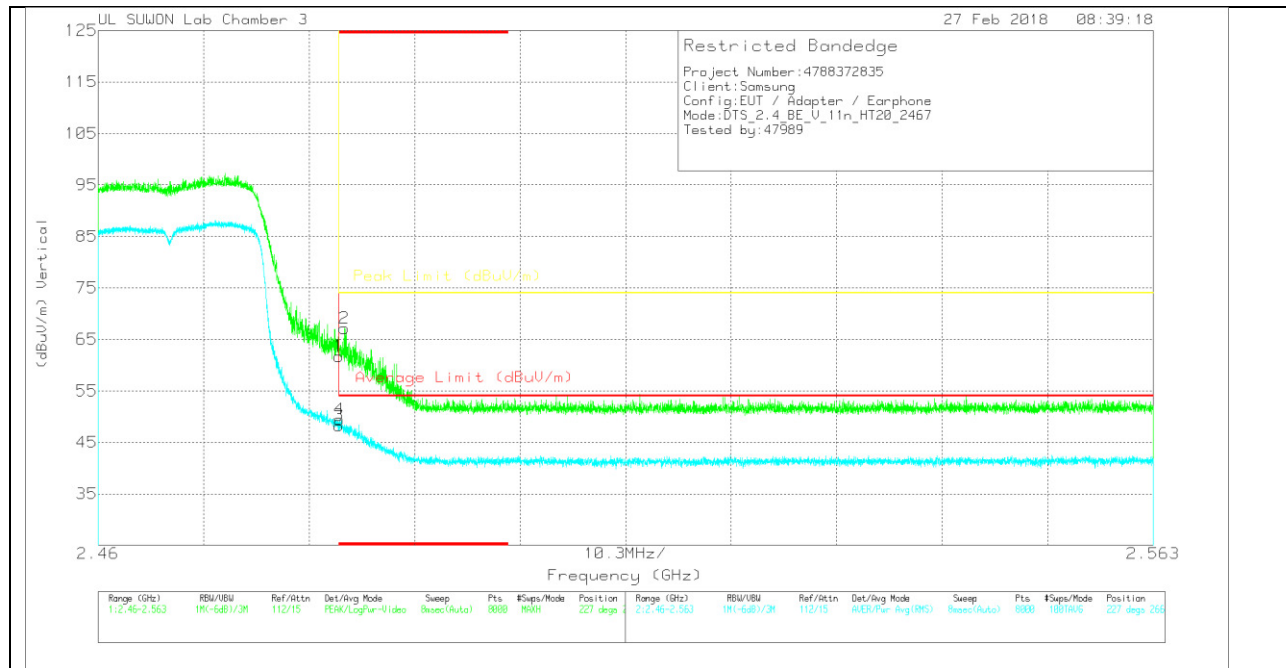
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117[0020959]	10dB_ATT[dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Asimuth (Degs)	Height (cm)	Polarity
1	* 2.484	50.49	Pk	32.1	-23	0	59.59	-	-	74	-14.41	139	102	H
2	* 2.485	54.78	Pk	32.1	-23.1	0	63.78	-	-	74	-10.22	139	102	H
3	* 2.484	36.97	RMS	32.1	-23	0	46.07	54	-7.93	-	-	139	102	H
4	* 2.484	37.4	RMS	32.1	-23	0	46.5	54	-7.5	-	-	139	102	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

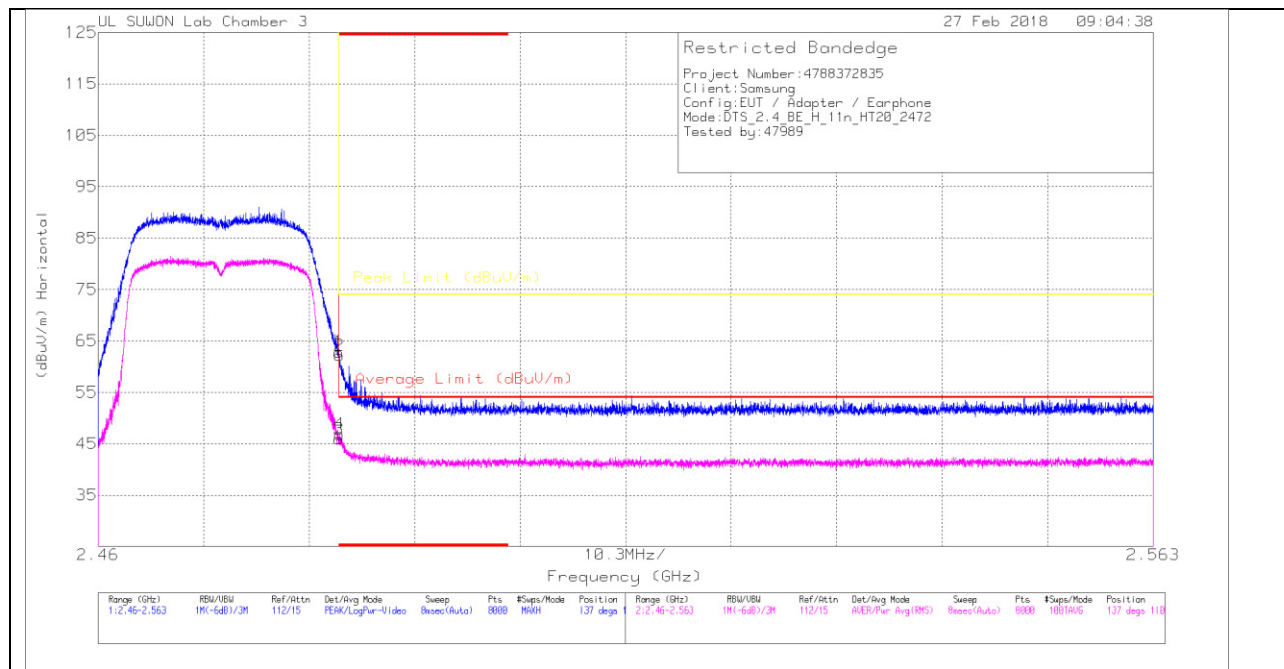
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117[00205959]	10dB_ATT[dB]	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	52.64	Pk	32.1	-23	0	61.74	-	-	74	-12.26	227	266	V
2	* 2.484	58.15	Pk	32.1	-23.1	0	67.15	-	-	74	-6.85	227	266	V
3	* 2.484	39.2	RMS	32.1	-23	0	48.3	54	-5.7	-	-	227	266	V
4	* 2.484	40.33	RMS	32.1	-23	0	49.43	54	-4.57	-	-	227	266	V

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

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (13 CHANNEL)**HORIZONTAL PEAK AND AVERAGE PLOT****HORIZONTAL DATA****Trace Markers**

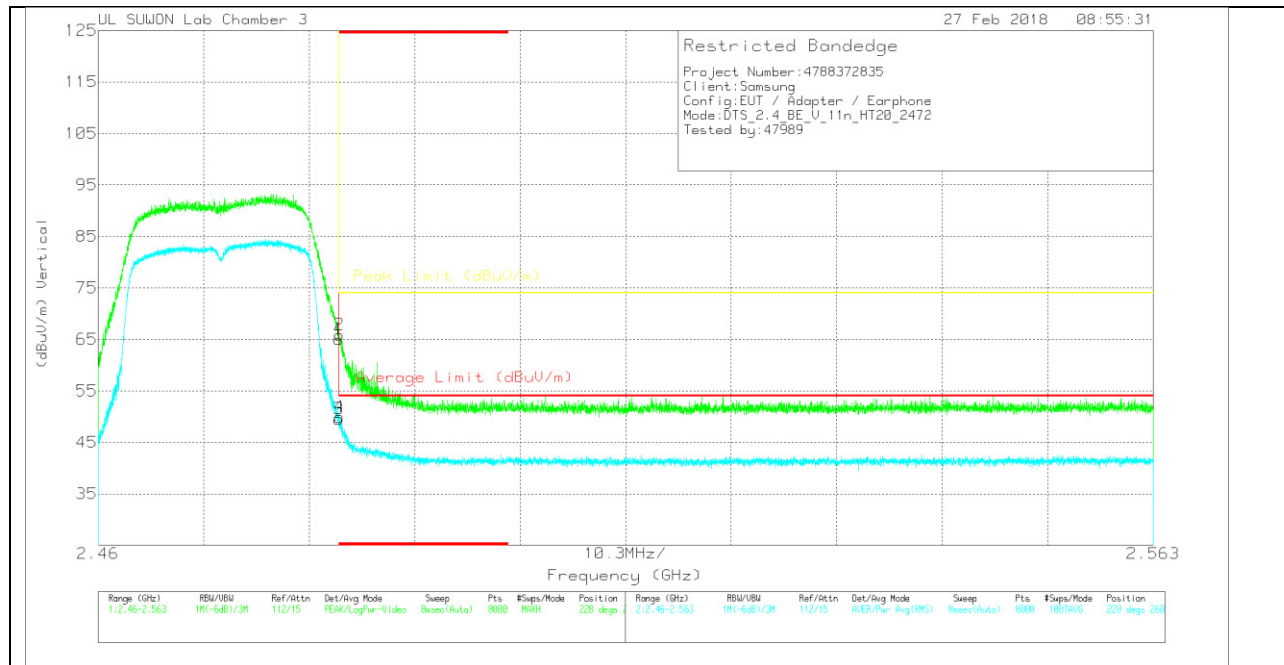
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00205959)	10dB_ATT(dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.484	53.73	Pk	32.1	-23	0	62.83	-	-	74	-11.17	137	110	H
2	* 2.484	53.06	Pk	32.1	-23	0	62.16	-	-	74	-11.84	137	110	H
3	* 2.484	36.82	RMS	32.1	-23	0	45.92	54	-8.08	-	-	137	110	H
4	* 2.484	37.75	RMS	32.1	-23	0	46.85	54	-7.15	-	-	137	110	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-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[00205959]	10dB_ATT[dB]	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	55.91	Pk	32.1	-23	0	65.01	-	-	74	-8.99	228	260	V
2	* 2.484	56.78	Pk	32.1	-23	0	65.88	-	-	74	-8.12	228	260	V
3	* 2.484	40.44	RMS	32.1	-23	0	49.54	54	-4.46	-	-	228	260	V
4	* 2.484	40.81	RMS	32.1	-23	0	49.91	54	-4.09	-	-	228	260	V

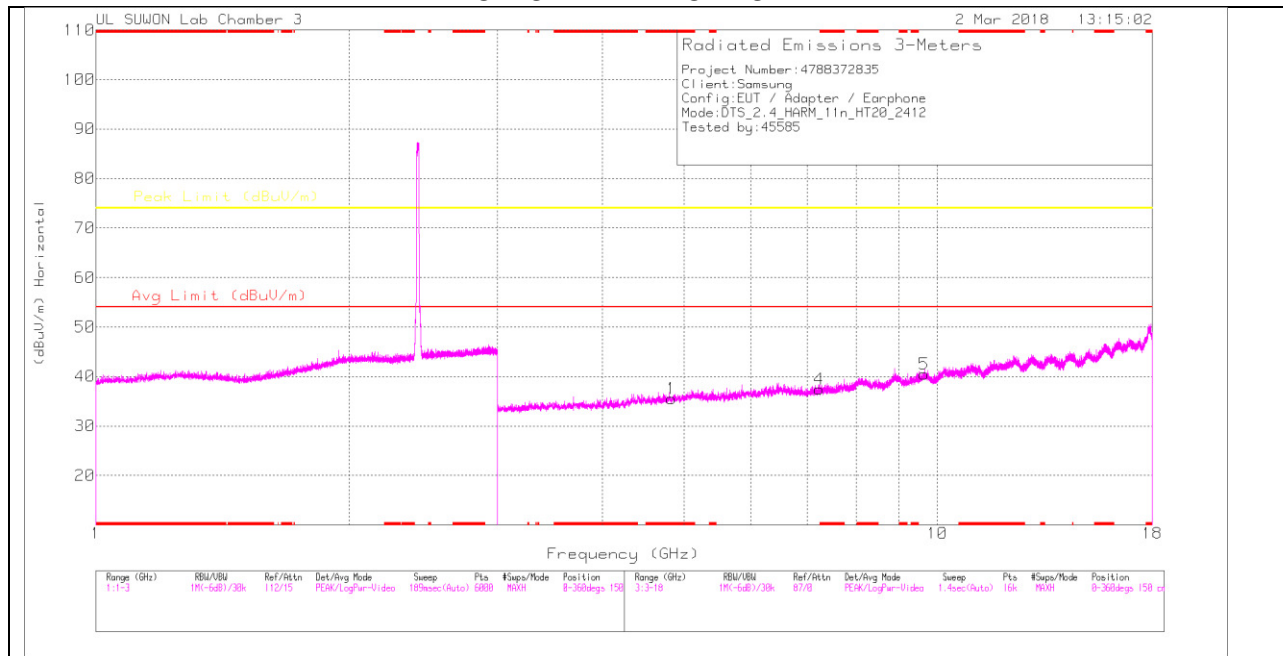
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

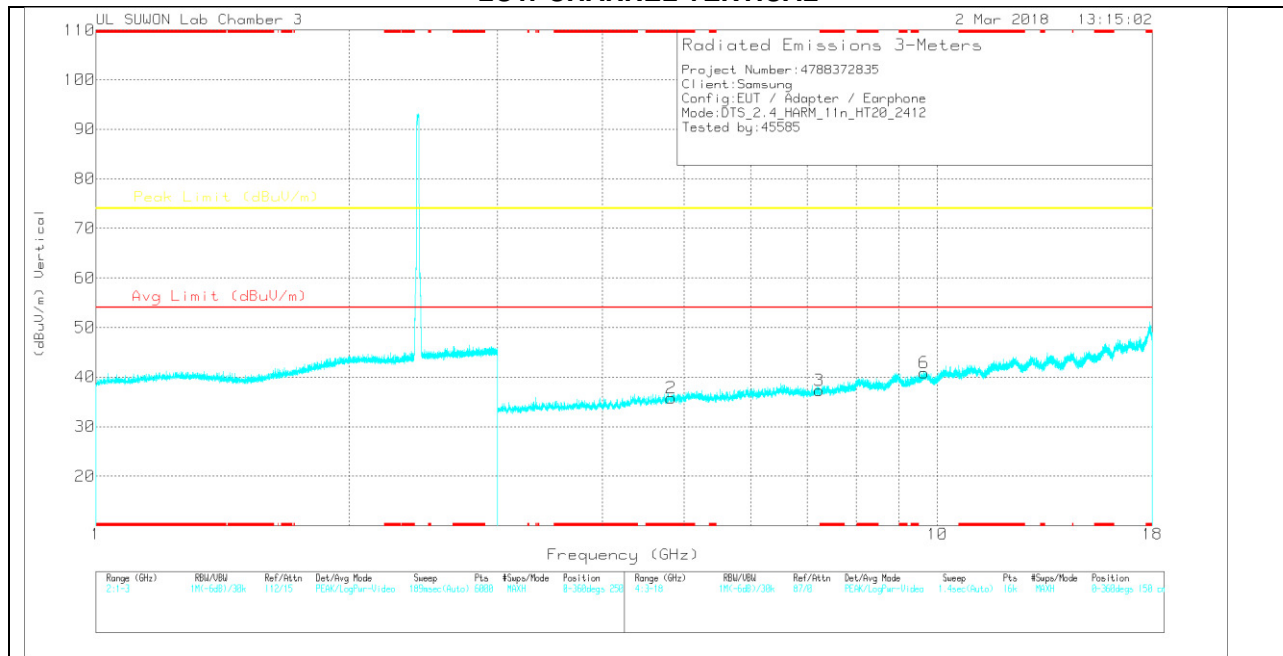
RMS - RMS detection

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

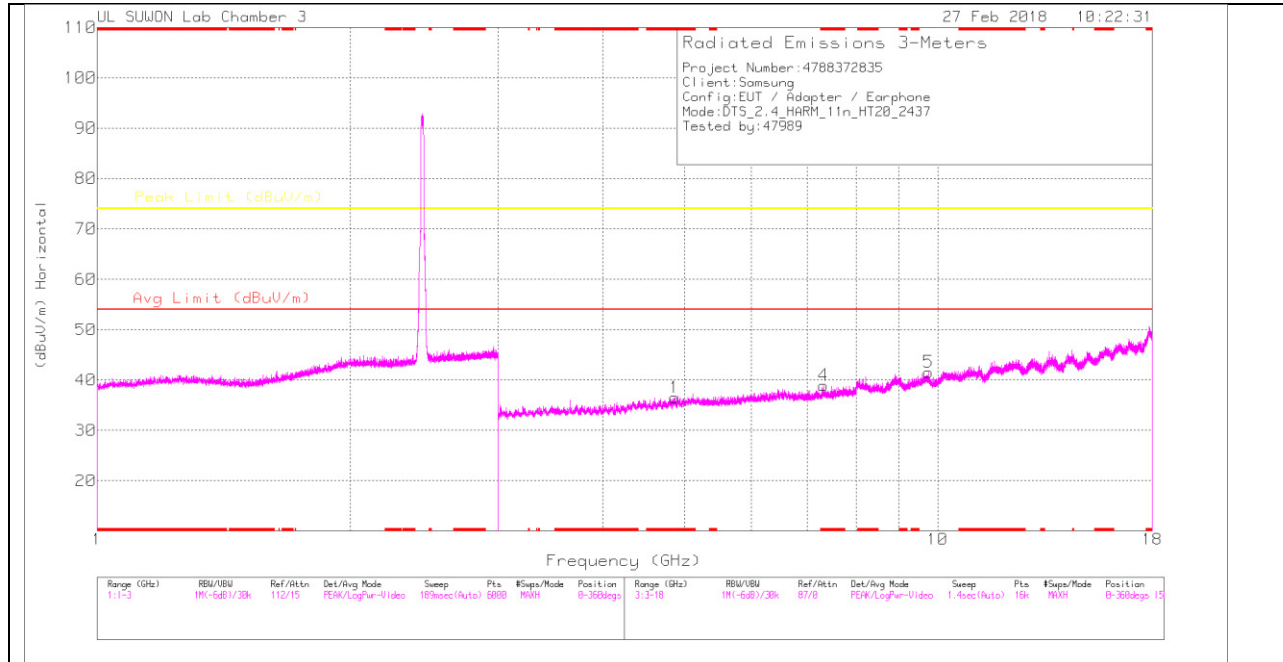
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00205958)	3GHz_HP[dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.826	29.77	PK	34	-28.3	0	35.47	-	-	74	-38.53	0-360	250	H
4	7.237	25.74	PK	35.6	-23.9	0	37.44	-	-	74	-36.56	0-360	250	H
5	9.648	23.46	PK	36.7	-19.7	0	40.46	-	-	74	-33.54	0-360	250	H
2	* 4.825	30.15	PK	34	-28.4	0	35.75	-	-	74	-38.25	0-360	150	V
3	7.235	25.56	PK	35.6	-23.9	0	37.26	-	-	74	-36.74	0-360	250	V
6	9.648	23.83	PK	36.7	-19.7	0	40.83	-	-	74	-33.17	0-360	150	V

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

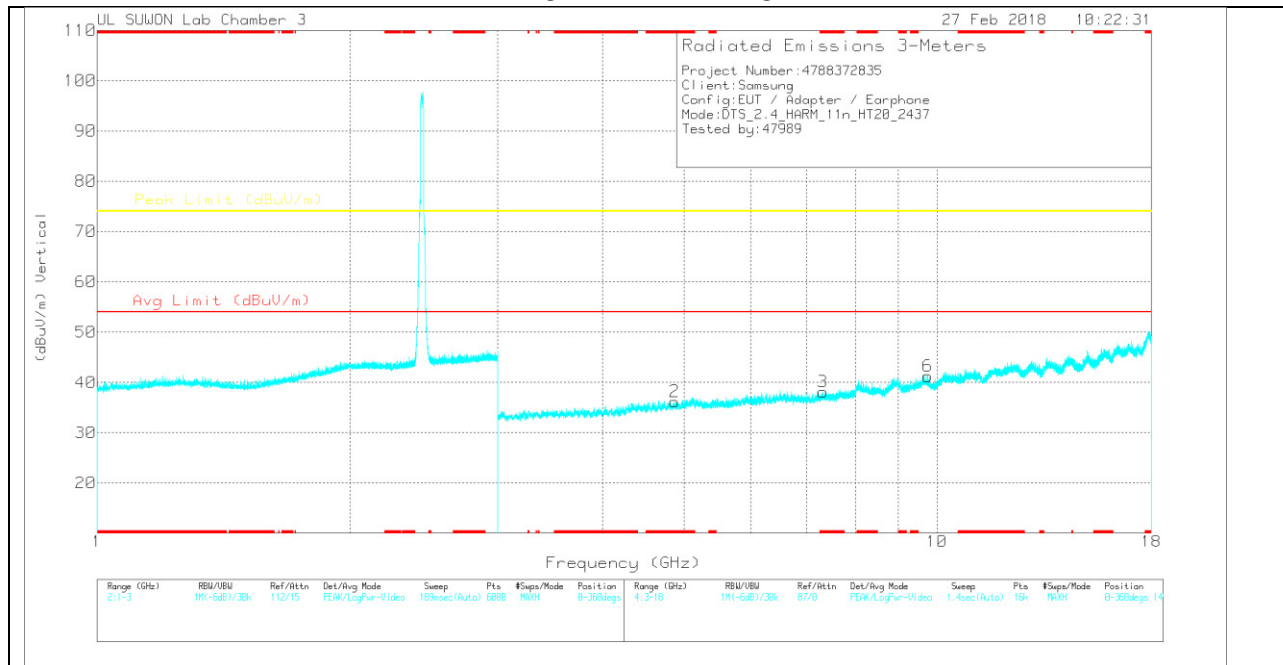
PK – Peak Detector

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

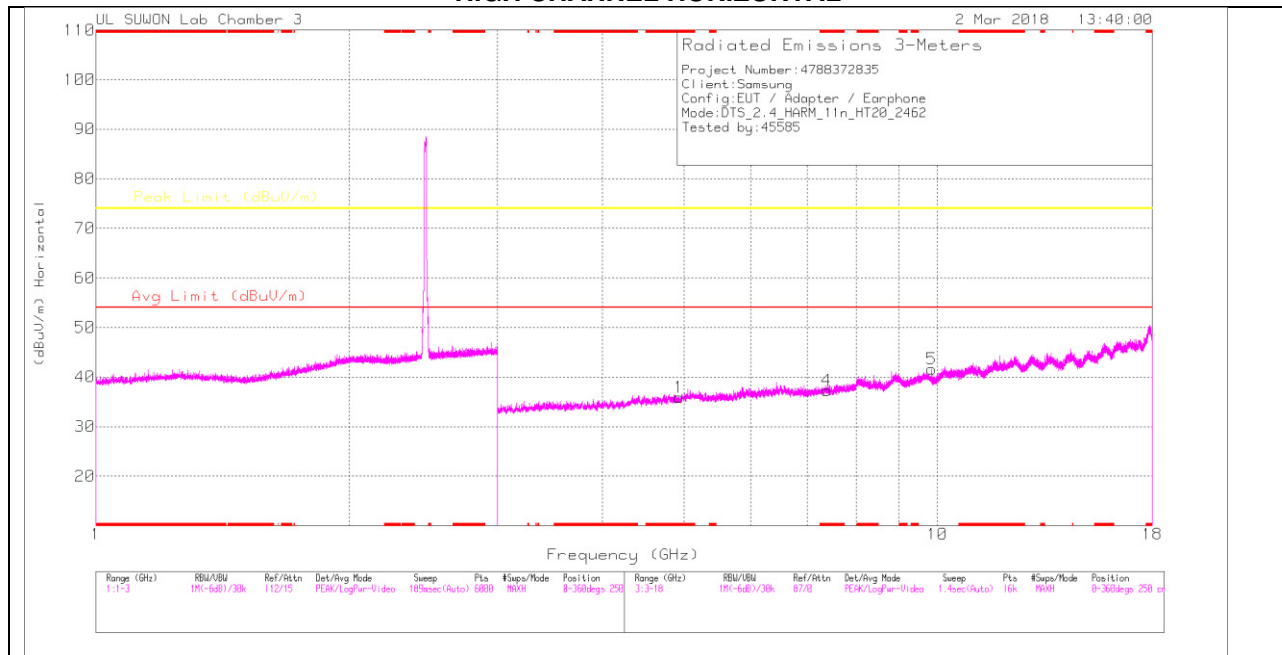
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00205958)	3GHz_HP[dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.867	31.34	PK	34	-28.8	0	36.54	-	-	74	-37.46	0-360	150	H
4	* 7.314	26.82	PK	35.6	-23.5	0	38.92	-	-	74	-35.08	0-360	250	H
5	9.748	24.17	PK	36.9	-19.5	0	41.57	-	-	74	-32.43	0-360	150	H
2	* 4.87	30.99	PK	34	-28.8	0	36.19	-	-	74	-37.81	0-360	149	V
3	* 7.311	26	PK	35.6	-23.5	0	38.1	-	-	74	-35.9	0-360	250	V
6	9.748	23.84	PK	36.9	-19.5	0	41.24	-	-	74	-32.76	0-360	250	V

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

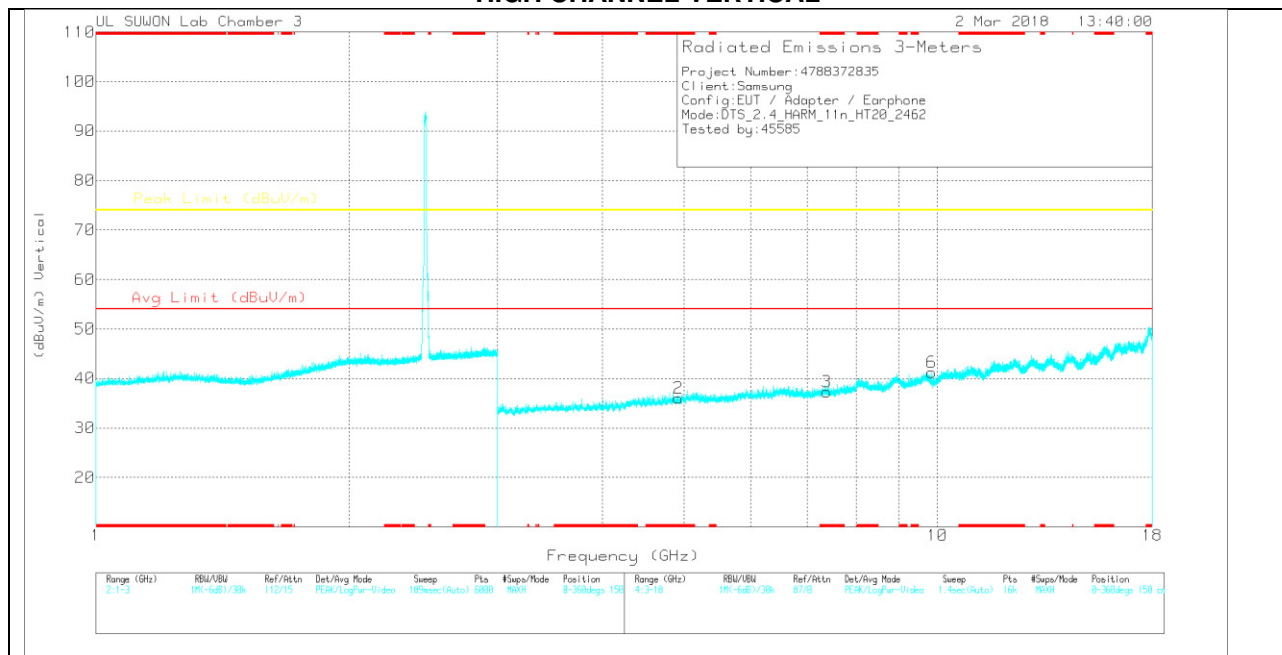
PK – Peak detector

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

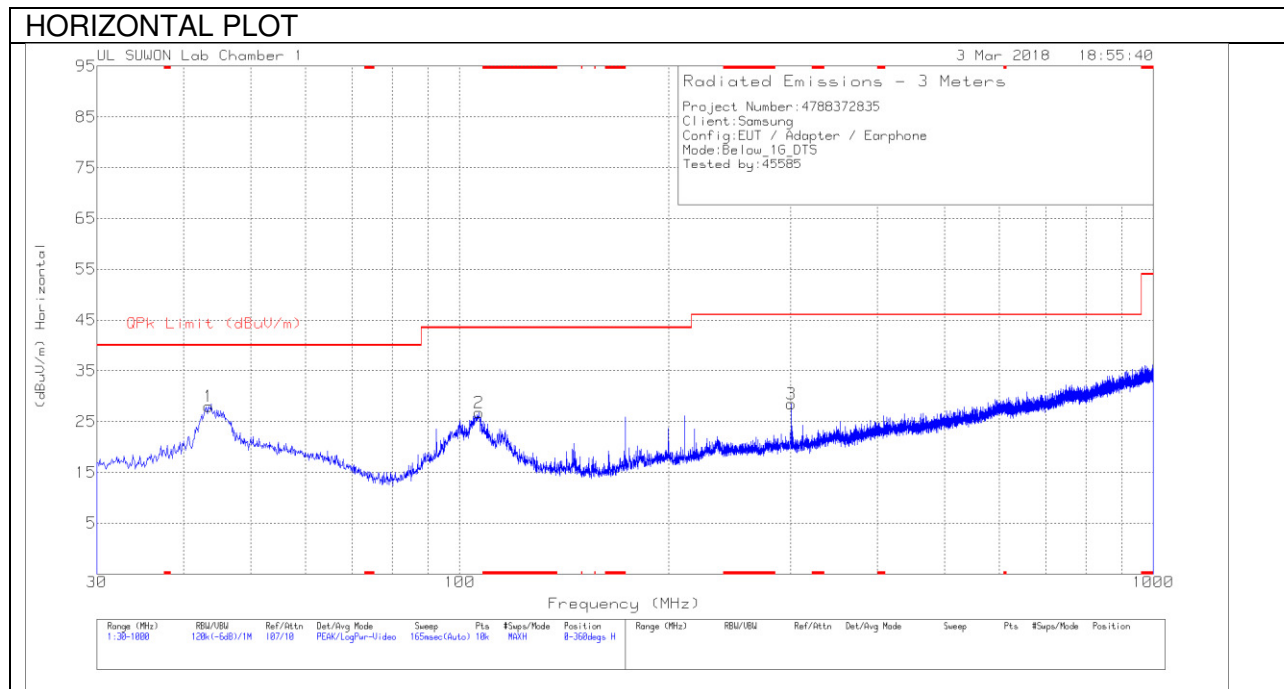
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00205958)	3GHz_HP[dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.927	30.84	PK	34	-28.9	0	35.94	-	-	74	-38.06	0-360	150	H
4	* 7.386	24.66	PK	35.6	-23	0	37.26	-	-	74	-36.74	0-360	150	H
5	9.848	24.33	PK	37	-19.7	0	41.63	-	-	74	-32.37	0-360	150	H
2	* 4.919	30.96	PK	34	-28.9	0	36.06	-	-	74	-37.94	0-360	250	V
3	* 7.387	24.69	PK	35.6	-23	0	37.29	-	-	74	-36.71	0-360	150	V
6	9.848	23.97	PK	37	-19.7	0	41.27	-	-	74	-32.73	0-360	150	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK – Peak Detector

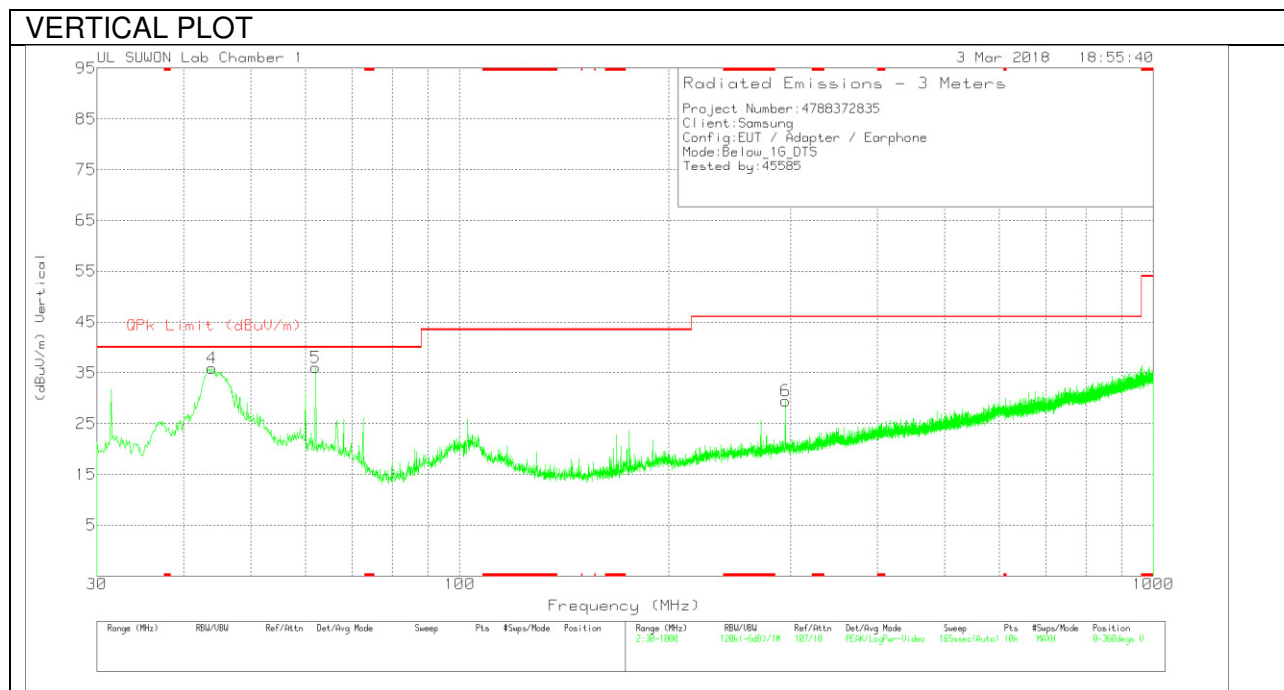
Note: Only peak measurement was performed. Because peak measurement result of unwanted emission is less than average limit (54dBuV/m).

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	750_20170831	30-1000MHz[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	43.483	37.94	Pk	19.4	-29.4	27.94	40	-12.06	0-360	400	H
2	106.533	37.6	Pk	17.4	-28.2	26.8	43.52	-16.72	0-360	300	H
3	300.921	36.06	Pk	19.3	-26.9	28.46	46.02	-17.56	0-360	100	H
4	43.968	45.76	Pk	19.5	-29.4	35.86	40	-4.14	0-360	100	V
5	62.01	47.49	Pk	17.8	-29.3	35.99	40	-4.01	0-360	200	V
6	294.81	37.41	Pk	19.1	-27	29.51	46.02	-16.51	0-360	200	V

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

Pk - Peak detector

12. AC POWER LINE CONDUCTED EMISSIONS**LIMITS**

FCC §15.207 (a)

IC RSS-GEN Clause 8.8

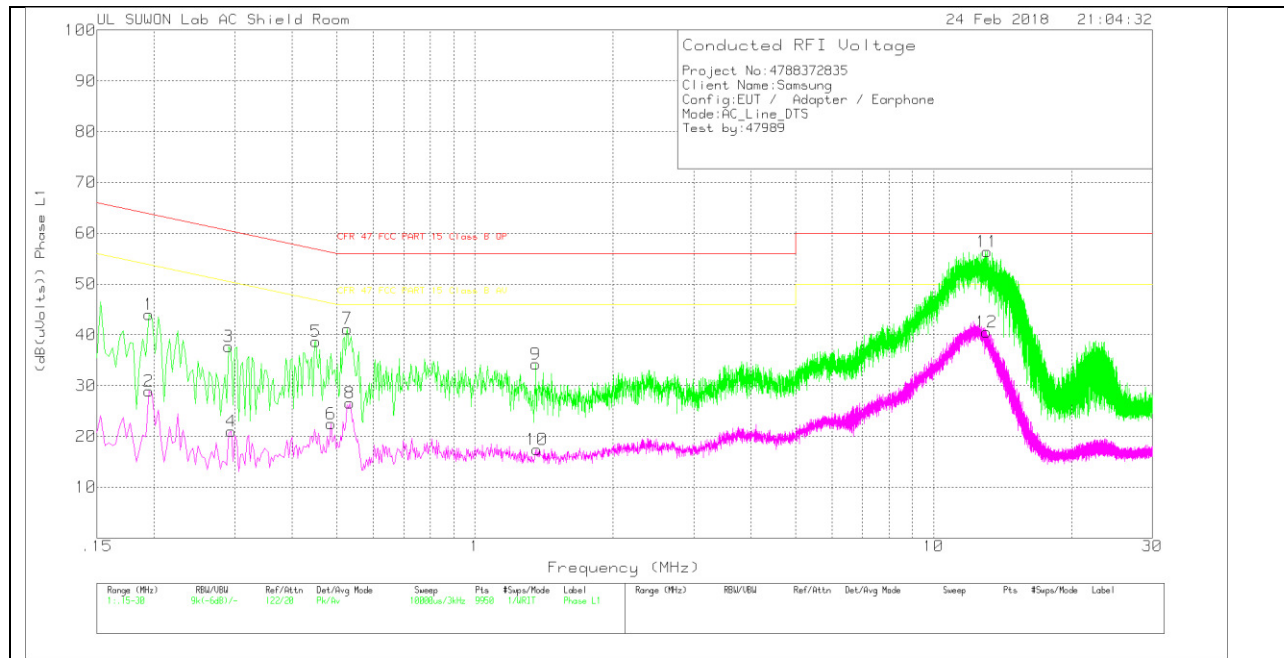
Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 [*]	56 to 46 [*]
0.5-5	56	46
5-30	60	50

^{*} 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

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101837_L1_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)
1	.195	34.03	Pk	9.8	.2	44.03	63.82	-19.79	-	-
2	.195	18.88	Av	9.8	.2	28.88	-	-	53.82	-24.94
3	.291	27.88	Pk	9.6	.2	37.68	60.5	-22.82	-	-
4	.294	11.22	Av	9.6	.2	21.02	-	-	50.41	-29.39
5	.45	28.73	Pk	9.7	.2	38.63	56.88	-18.25	-	-
6	.486	12.63	Av	9.7	.2	22.53	-	-	46.24	-23.71
7	.528	31.32	Pk	9.7	.2	41.22	56	-14.78	-	-
8	.534	16.65	Av	9.7	.2	26.55	-	-	46	-19.45
9	1.359	24.08	Pk	9.9	.3	34.28	56	-21.72	-	-
10	1.368	7.26	Av	9.9	.3	17.46	-	-	46	-28.54
11	13.098	46.17	Pk	9.8	.4	56.37	60	-3.63	-	-
12	13.059	30.36	Av	9.8	.4	40.56	-	-	50	-9.44

Pk - Peak detector

Av - Average detection

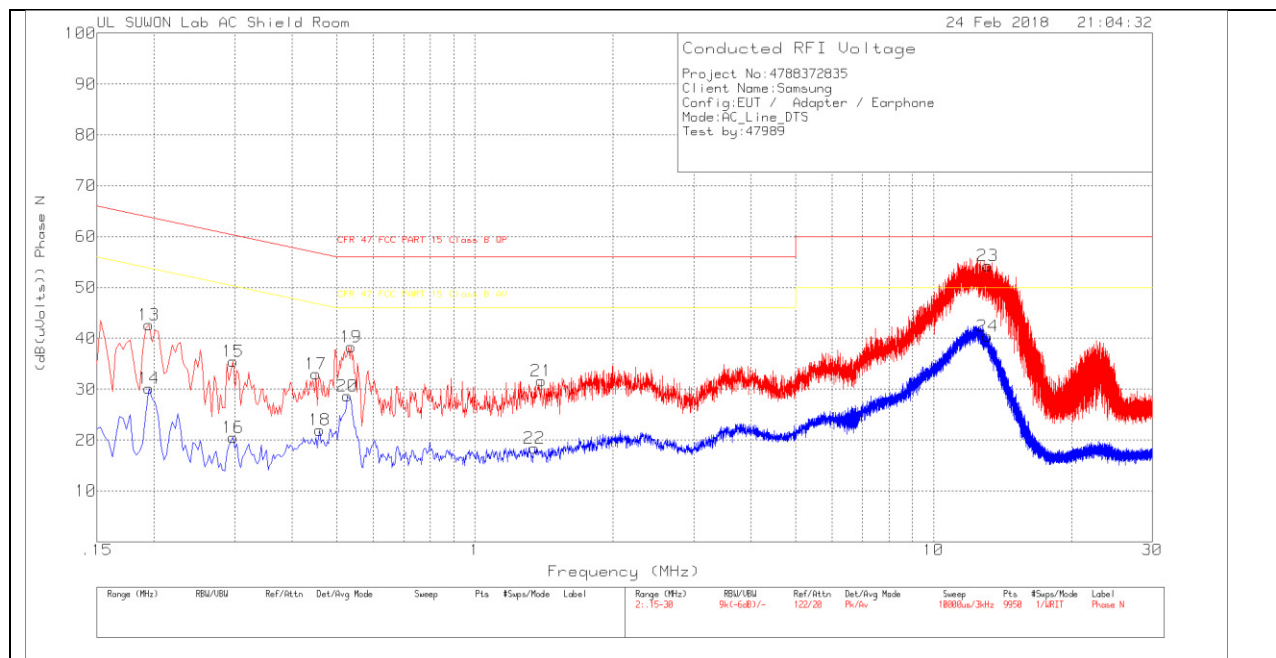
Quasi-Peak Emissions

Range 1: Phase L1 .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	101837_L1_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)
13.0982	39.32	Qp	9.8	.4	49.52	60	-10.48	-	-

Qp - Quasi-Peak detector

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	32.49	Pk	9.9	.2	42.59	63.82	-21.23	-	-
14	.195	20.01	Av	9.9	.2	30.11	-	-	53.82	-23.71
15	.297	25.54	Pk	9.7	.2	35.44	60.33	-24.89	-	-
16	.297	10.55	Av	9.7	.2	20.45	-	-	50.33	-29.88
17	.45	22.95	Pk	9.8	.2	32.95	56.88	-23.93	-	-
18	.459	11.93	Av	9.8	.2	21.93	-	-	46.71	-24.78
19	.537	28.36	Pk	9.8	.2	38.36	56	-17.64	-	-
20	.528	18.64	Av	9.8	.2	28.64	-	-	46	-17.36
21	1.395	21.38	Pk	9.9	.3	31.58	56	-24.42	-	-
22	1.35	8.2	Av	9.9	.3	18.4	-	-	46	-27.6
23	13.146	44.03	Pk	9.8	.4	54.23	60	-5.77	-	-
24	13.131	30.25	Av	9.8	.4	40.45	-	-	50	-9.55

Pk - Peak detector

Av - Average detection

Quasi-Peak Emissions

Range 2: Phase N .15 - 30MHz

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)
13.1468	38.01	Qp	9.8	.4	48.21	60	-11.79	-	-

Qp - Quasi-Peak detector