

Appendix B : Cellular receiver Part15B test results

1. TEST METHODOLOGY

The tests documented in this report were performed in accordance with following methods.

1. FCC CFR 47 Part 2.
2. FCC CFR 47 Part 15.
3. ANSI C63.4 : 2014

2. EQUIPMENT UNDER TEST

2.1. DESCRIPTION OF EUT

The EUT is a GSM/WCDMA/LTE Phone + BT/BLE, DTS b/g/n and NFC.
This test report addresses the WWAN receiver mode.
(GSM850/WCDMA B5/LTE B5/LTE B12/LTE B13)

2.2. TEST MODE

Mode	Description
GSM850	Communicating with Call simulator(CMW500)
WCDMA BAND 5	Communicating with Call simulator(CMW500)
LTE BAND 5	Communicating with Call simulator(CMW500)
LTE BAND 12	Communicating with Call simulator(CMW500)
LTE BAND 13	Communicating with Call simulator(CMW500)

2.3. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Charger	SAMSUNG	EP-TA200	R37KC3B01GORC3	N/A
Data Cable	SAMSUNG	EP-D140AWE	N/A	N/A
Earphone	SAMSUNG	EHS61ASFWE	N/A	N/A

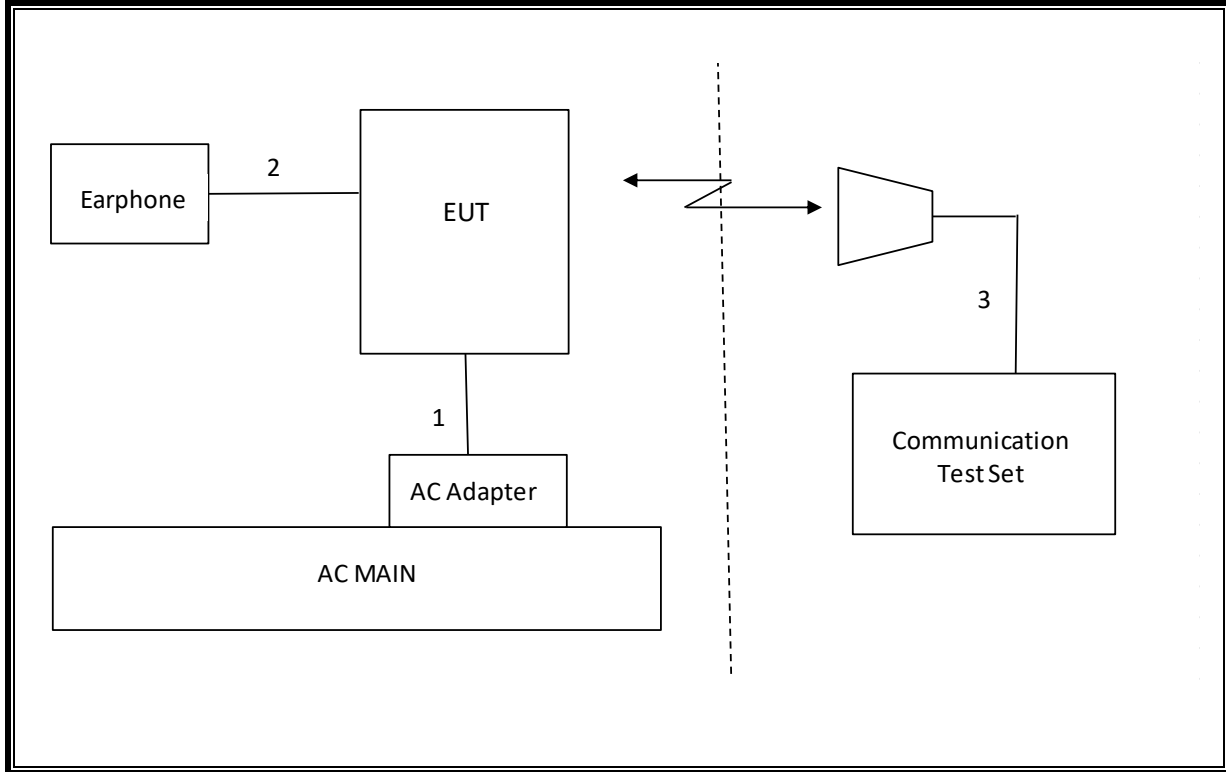
I/O CABLE

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC Power	1	C Type	Shielded	1.1m	N/A
2	Audio	2	Mini-Jack	Unshielded	1.2m	N/A

TEST SETUP

The EUT is continuously communicated to the call box during the tests.

SETUP DIAGRAM FOR TESTS (RADIATED TEST SETUP)



3. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment List				
Description	Manufacturer	Model	S/N	Cal Due
Antenna, Tuned Dipole 400-1000 MHz	ETS	3121D DB4	00164753	06-30-19
Antenna, Horn, 40 GHz	ETS	3116C	00166155	12-04-19
Preamplifier	ETS	3116C-PA	00168841	08-09-19
Antenna, Horn, 40 GHz	ETS	3116C	00168645	12-04-19
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	750	08-04-20
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	845	08-04-20
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	749	08-04-20
Antenna, Horn, 18 GHz	ETS	3115	00167211	08-04-20
Antenna, Horn, 18 GHz	ETS	3115	00161451	08-04-20
Antenna, Horn, 18 GHz	ETS	3117	00168724	08-04-20
Antenna, Horn, 18 GHz	ETS	3117	00205959	08-04-20
Antenna, Horn, 18 GHz	ETS	3117	00168717	08-04-20
Combiner	WEINSCHTEL	1575	2152	08-08-19
Communications Test Set	R&S	CMW500	115331	08-07-19
DC Power Supply	Agilent / HP	E3640A	MY54226395	08-06-19
Preamplifier, 1000 MHz	Sonoma	310N	341282	08-07-19
Preamplifier, 1000 MHz	Sonoma	310N	370599	08-06-19
Preamplifier, 1000 MHz	Sonoma	310N	351741	08-07-19
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1876511	08-07-19
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	2029169	08-07-19
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1896138	08-07-19
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54490312	08-06-19
EMI Test Receive, 40 GHz	R&S	ESU40	100439	08-06-19
EMI Test Receive, 40 GHz	R&S	ESU40	100457	08-06-19
EMI Test Receive, 44 GHz	R&S	ESW40	101590	08-06-19
High Pass Filter 1.2GHz	Micro-Tronics	HPM50108-02	G005	08-08-19
High Pass Filter 1.2GHz	Micro-Tronics	HPM50108-02	G006	08-08-19
High Pass Filter 2.8GHz	Micro-Tronics	HPM50111-02	010	08-08-19
High Pass Filter 2.8GHz	Micro-Tronics	HPM50111-02	011	08-08-19
High Pass Filter 4GHz	Micro-Tronics	HPM50118-02	G001	08-08-19
High Pass Filter 4GHz	Micro-Tronics	HPM50118-02	G002	08-08-19
Attenuator	PASTERNAK	PE7087-10	A009	08-08-19
Attenuator	PASTERNAK	PE7087-10	A001	08-08-19
Attenuator	PASTERNAK	PE7087-10	A008	08-08-19
Attenuator	PASTERNAK	PE7087-10	2	08-07-19
Attenuator	PASTERNAK	PE7395-10	A011	08-08-19
Antenna, Loop, 9kHz-30MHz	R&S	HFH2-Z2	100418	10-26-19
Temperature Chamber	ESPEC	SH-642	93001109	08-06-19
UL Software				
Description	Manufacturer	Model	Version	
Antenna port test software	UL	CLT	Ver 2.5	

4. APPLICABLE LIMITS AND TEST RESULTS

TEST PROCEDURE

ANSI C63.4: 2014

LIMIT

§15.109 (a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

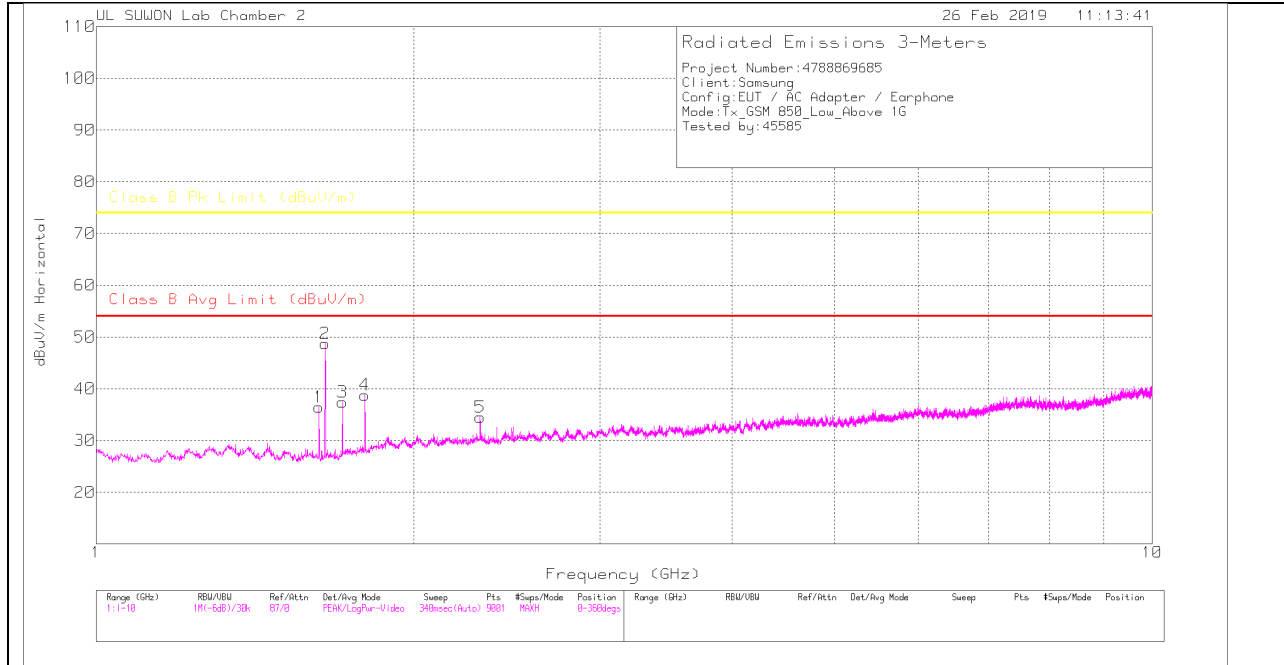
Limits for radiated disturbance of Class B ITE at measuring distance of 3 m	
Frequency range (MHz)	Quasi-peak limits (dB μ V/m)
30 to 88	40
88 to 216	43.5
216 to 960	46
Above 960 MHz	54

Note: The lower limit shall apply at the transition frequency.

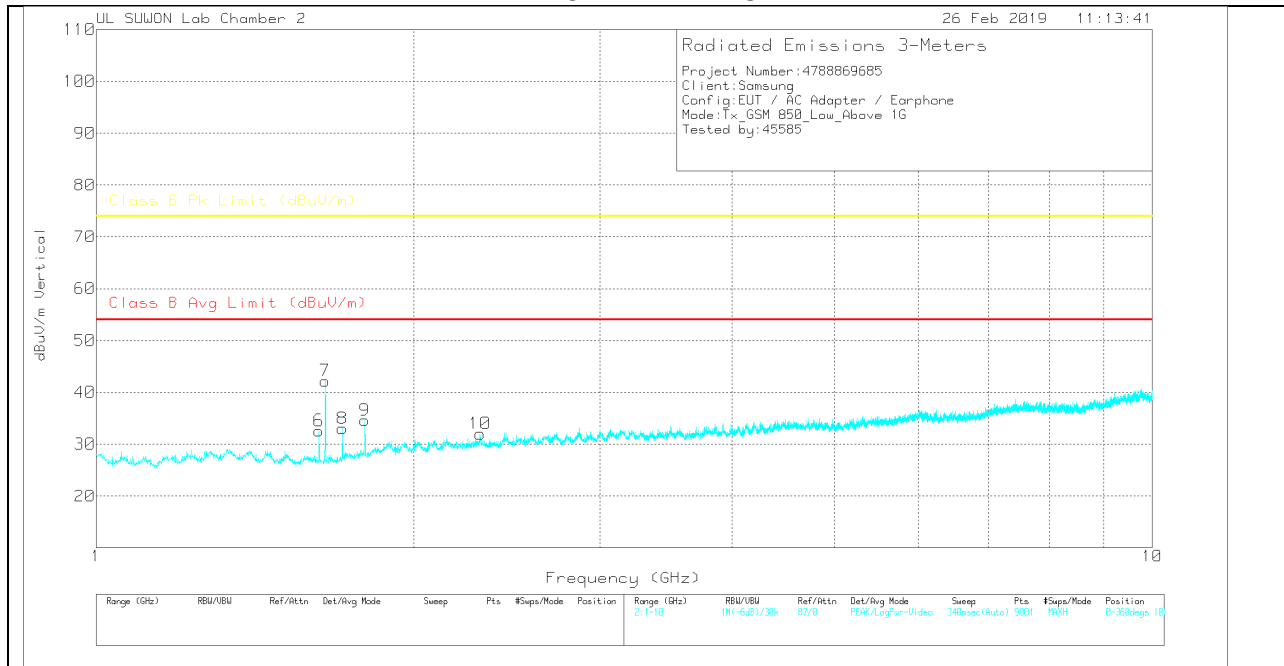
4.1. Above 1 GHz in the GSM850

LOW CHANNEL(869.2MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

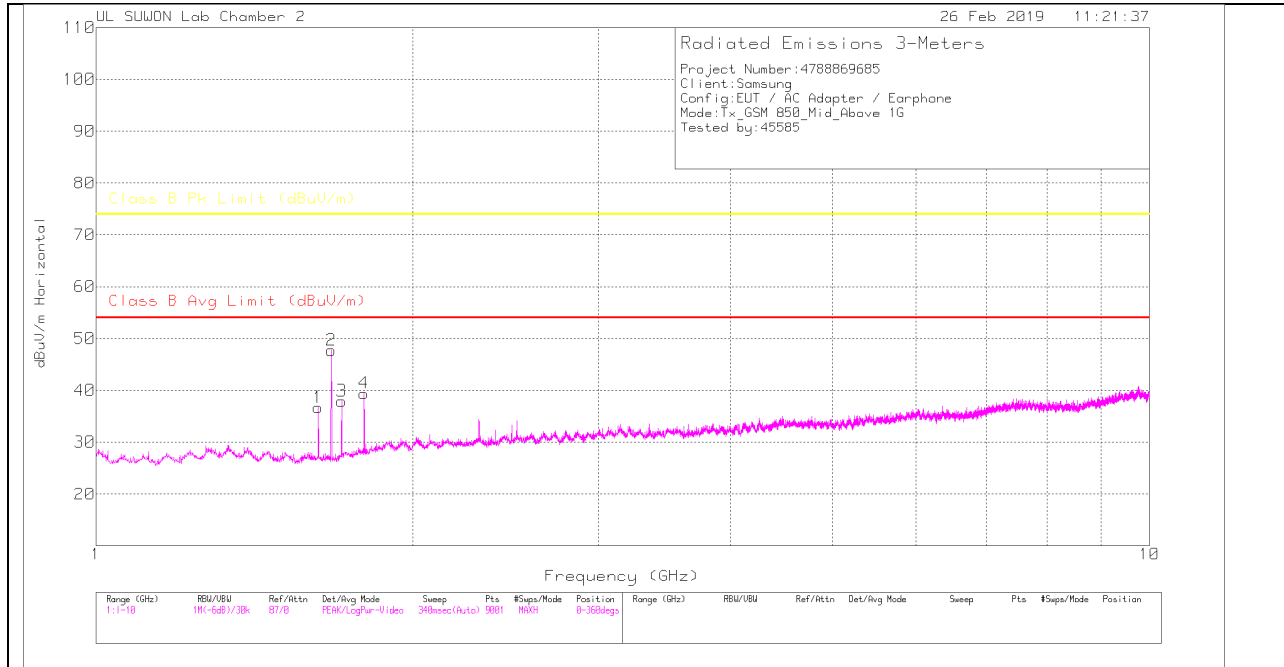
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSFR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.626	38.75	PK	28.3	-31.4	.8	36.45	-	-	74	-37.55	0-360	100	H
2	1.648	51.22	PK	28.3	-31.4	.6	48.72	-	-	74	-25.28	0-360	200	H
3	1.711	39.2	PK	28.8	-31.3	.7	37.4	-	-	74	-36.6	0-360	200	H
4	1.797	39.8	PK	29.8	-31.2	.4	38.8	-	-	74	-35.2	0-360	100	H
5	2.31	32.88	PK	31.5	-30.8	.9	34.48	-	-	74	-39.52	0-360	200	H
6	1.626	34.89	PK	28.3	-31.4	.8	32.59	-	-	74	-41.41	0-360	200	V
7	1.648	44.74	PK	28.3	-31.4	.6	42.24	-	-	74	-31.76	0-360	100	V
8	1.711	34.85	PK	28.8	-31.3	.7	33.05	-	-	74	-40.95	0-360	200	V
9	1.797	35.63	PK	29.8	-31.2	.4	34.63	-	-	74	-39.37	0-360	200	V
10	2.31	30.42	PK	31.5	-30.8	.9	32.02	-	-	74	-41.98	0-360	200	V

PK – Peak Detector

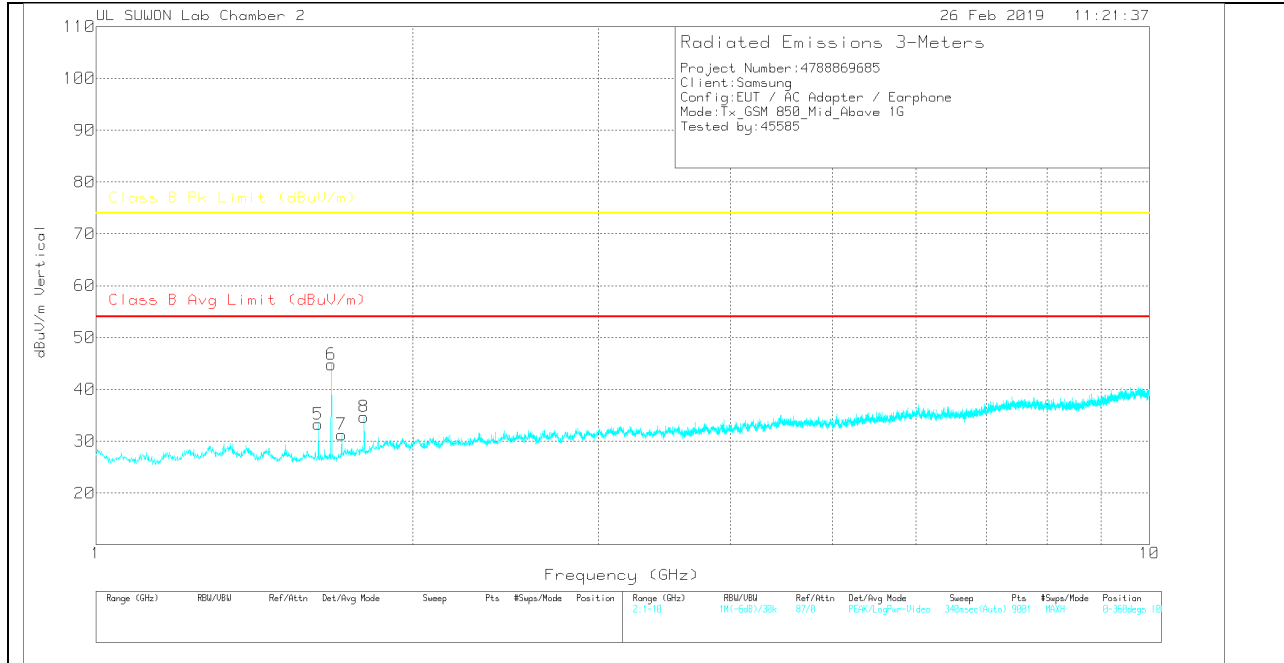
Note: Unwanted emissions on the harmonic frequency and marker pointed were generated from the call-simulator with the TX and RX signals.

MID CHANNEL(881.6MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

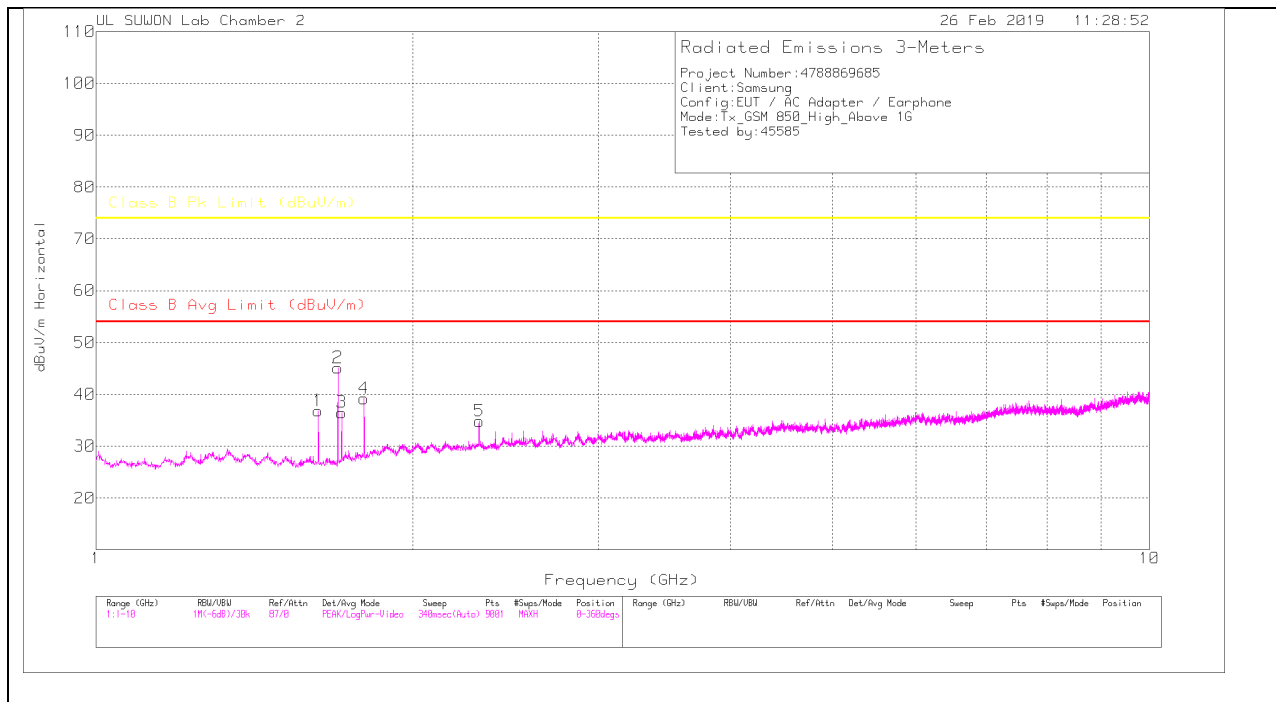
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSPK)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.626	39.02	PK	28.3	-31.4	.8	36.72	-	-	74	-37.28	0-360	200	H
2	1.673	50.04	PK	28.5	-31.3	.5	47.74	-	-	74	-26.26	0-360	200	H
3	1.711	39.74	PK	28.8	-31.3	.7	37.94	-	-	74	-36.06	0-360	100	H
4	1.797	40.44	PK	29.8	-31.2	.4	39.44	-	-	74	-34.56	0-360	200	H
5	1.626	35.58	PK	28.3	-31.4	.8	33.28	-	-	74	-40.72	0-360	200	V
6	1.673	47.12	PK	28.5	-31.3	.5	44.82	-	-	74	-29.18	0-360	200	V
7	1.711	33.08	PK	28.8	-31.3	.7	31.28	-	-	74	-42.72	0-360	200	V
8	1.797	35.7	PK	29.8	-31.2	.4	34.7	-	-	74	-39.3	0-360	200	V

PK – Peak Detector

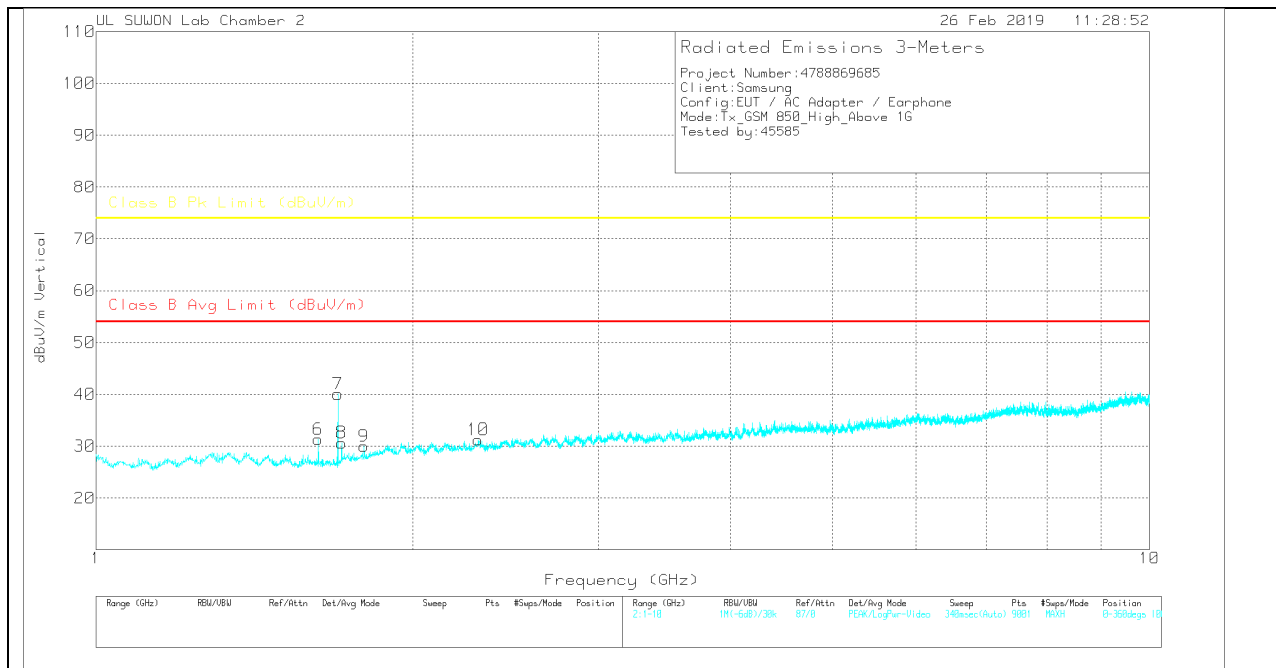
Note: Unwanted emissions on the harmonic frequency and marker pointed were generated from the call-simulator with the TX and RX signals.

HIGH CHANNEL(893.8MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSPK)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.626	39.14	PK	28.3	-31.4	.8	36.84	-	-	74	-37.16	0-360	200	H
2	1.697	47.25	PK	28.6	-31.3	.6	45.15	-	-	74	-28.85	0-360	100	H
3	1.711	38.32	PK	28.8	-31.3	.7	36.52	-	-	74	-37.48	0-360	200	H
4	1.797	40.21	PK	29.8	-31.2	.4	39.21	-	-	74	-34.79	0-360	100	H
5	2.311	33.23	PK	31.5	-30.8	.9	34.83	-	-	74	-39.17	0-360	200	H
6	1.626	33.64	PK	28.3	-31.4	.8	31.34	-	-	74	-42.66	0-360	100	V
7	1.697	42.17	PK	28.6	-31.3	.6	40.07	-	-	74	-33.93	0-360	200	V
8	1.711	32.45	PK	28.8	-31.3	.7	30.65	-	-	74	-43.35	0-360	100	V
9	1.797	30.98	PK	29.8	-31.2	.4	29.98	-	-	74	-44.02	0-360	100	V
10	2.306	29.64	PK	31.5	-30.8	.9	31.24	-	-	74	-42.76	0-360	100	V

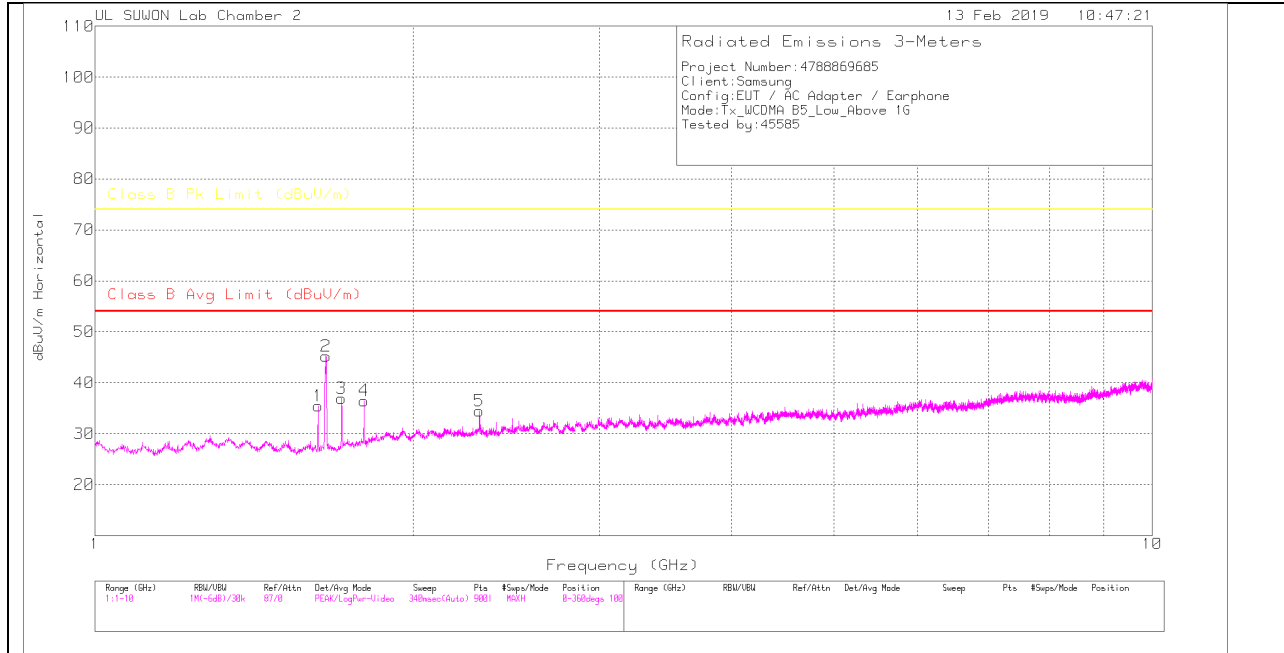
PK – Peak Detector

Note: Unwanted emissions on the harmonic frequency and marker pointed were generated from the call-simulator with the TX and RX signals.

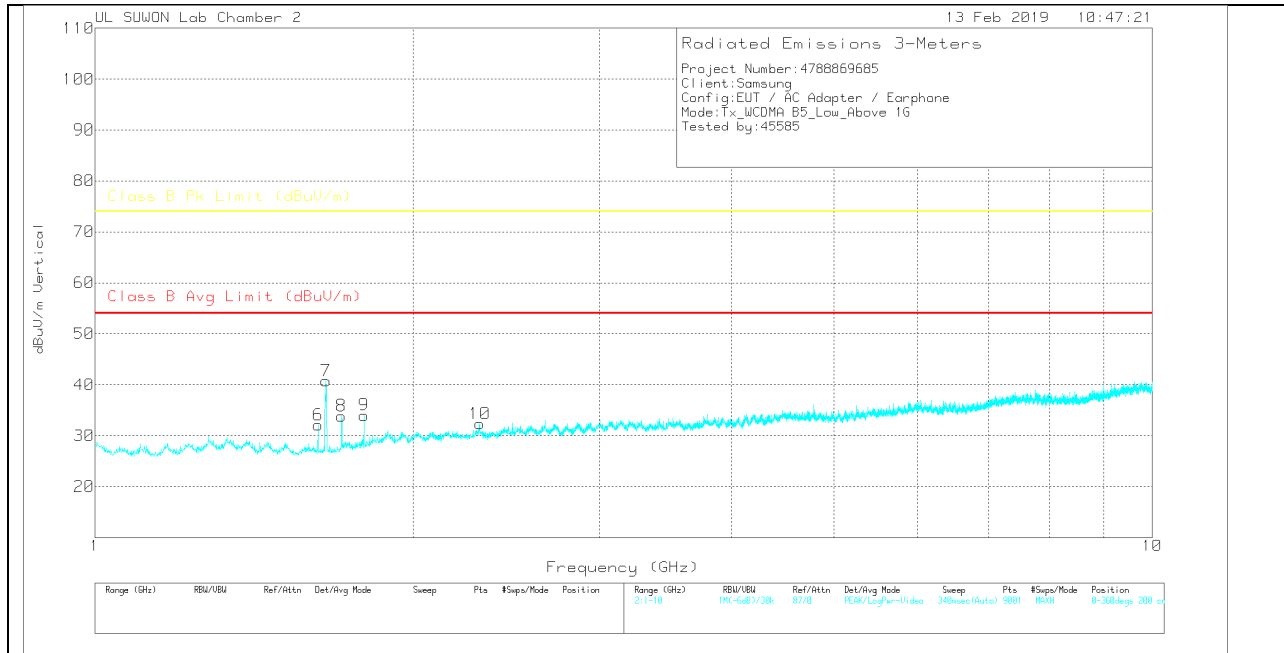
4.2. Above 1 GHz in the WCDMA Band 5

LOW CHANNEL(871.4MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

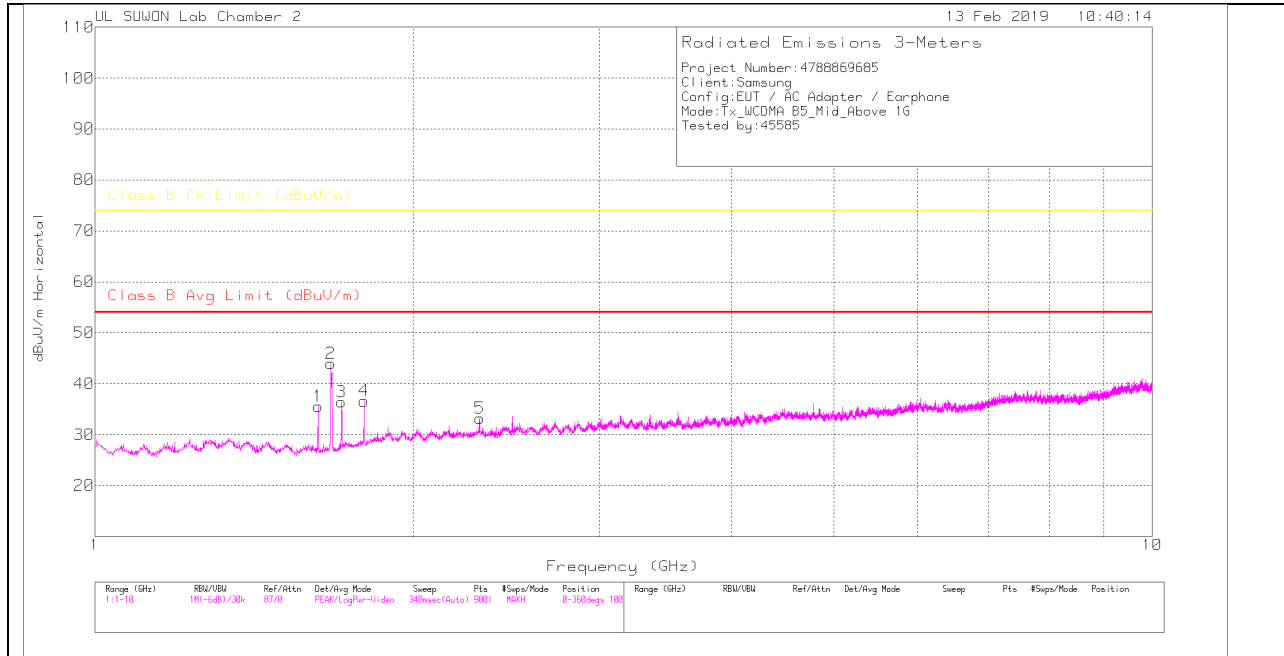
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSFR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.625	37.79	PK	28.3	-31.4	.8	35.49	-	-	74	-38.51	0-360	100	H
2	1.654	47.88	PK	28.3	-31.5	.5	45.18	-	-	74	-28.82	0-360	200	H
3	1.711	38.72	PK	28.8	-31.3	.7	36.92	-	-	74	-37.08	0-360	100	H
4	1.797	37.5	PK	29.8	-31.2	.4	36.5	-	-	74	-37.5	0-360	200	H
5	2.31	32.83	PK	31.5	-30.8	.9	34.43	-	-	74	-39.57	0-360	100	H
6	1.626	34.46	PK	28.3	-31.4	.8	32.16	-	-	74	-41.84	0-360	200	V
7	1.654	43.5	PK	28.3	-31.5	.5	40.8	-	-	74	-33.2	0-360	200	V
8	1.711	35.7	PK	28.8	-31.3	.7	33.9	-	-	74	-40.1	0-360	200	V
9	1.797	35.03	PK	29.8	-31.2	.4	34.03	-	-	74	-39.97	0-360	200	V
10	2.311	30.79	PK	31.5	-30.8	.9	32.39	-	-	74	-41.61	0-360	200	V

PK – Peak Detector

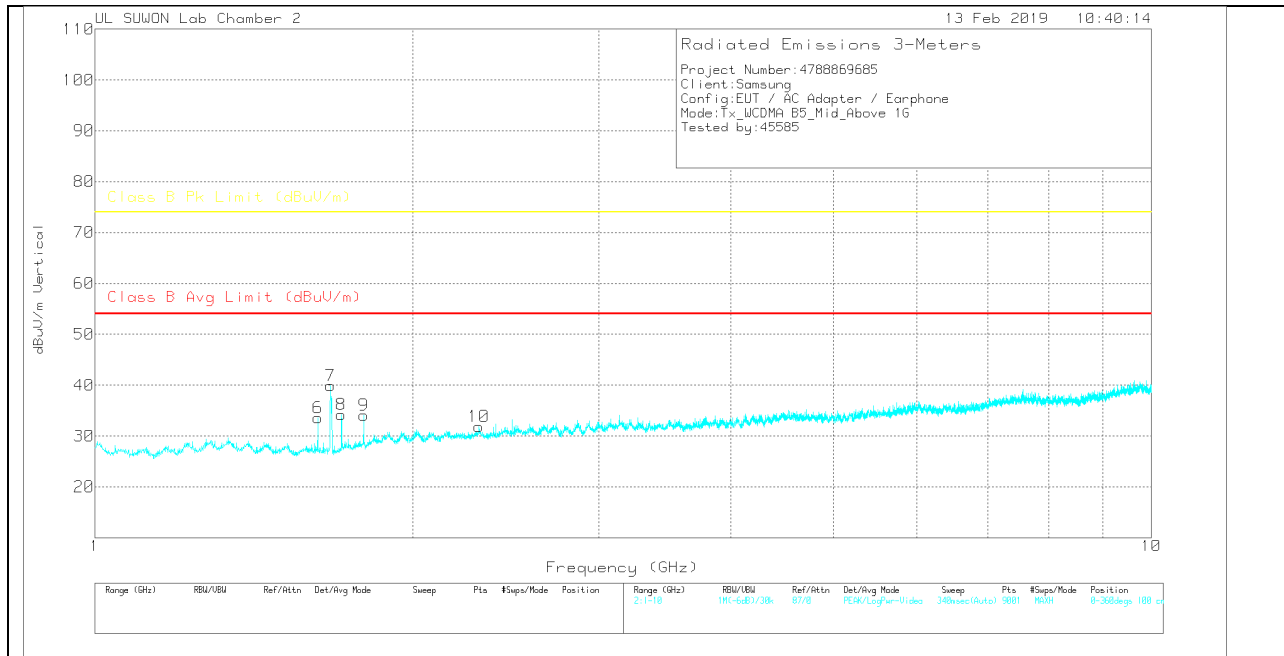
Note: Unwanted emissions on the harmonic frequency and marker pointed were generated from the call-simulator with the TX and RX signals.

MID CHANNEL(881.6MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

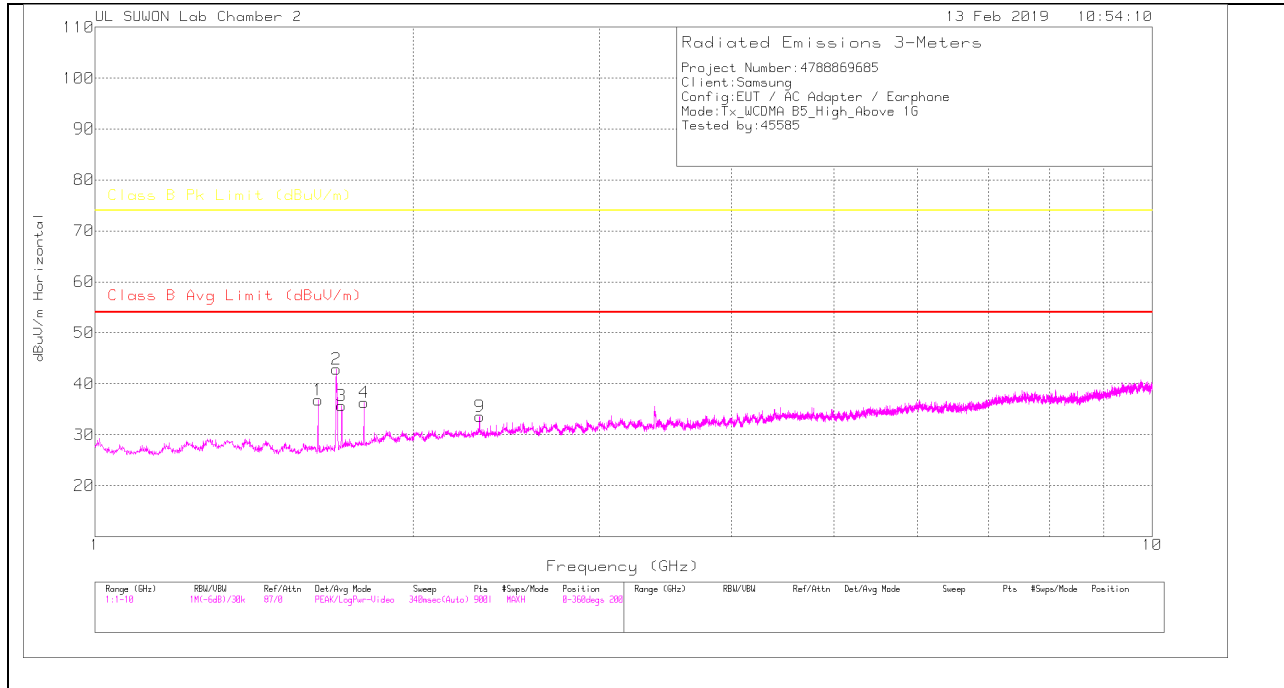
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSPK)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.626	37.88	PK	28.3	-31.4	.8	35.58	-	-	74	-38.42	0-360	100	H
2	1.671	46.39	PK	28.5	-31.4	.5	43.99	-	-	74	-30.01	0-360	200	H
3	1.711	38.22	PK	28.8	-31.3	.7	36.42	-	-	74	-37.58	0-360	100	H
4	1.797	37.63	PK	29.8	-31.2	.4	36.63	-	-	74	-37.37	0-360	100	H
5	2.311	31.64	PK	31.5	-30.8	.9	33.24	-	-	74	-40.76	0-360	100	H
6	1.626	35.91	PK	28.3	-31.4	.8	33.61	-	-	74	-40.39	0-360	200	V
7	1.672	42.25	PK	28.5	-31.3	.5	39.95	-	-	74	-34.05	0-360	200	V
8	1.711	36.02	PK	28.8	-31.3	.7	34.22	-	-	74	-39.78	0-360	200	V
9	1.797	35.07	PK	29.8	-31.2	.4	34.07	-	-	74	-39.93	0-360	200	V
10	2.31	30.3	PK	31.5	-30.8	.9	31.9	-	-	74	-42.1	0-360	100	V

PK – Peak Detector

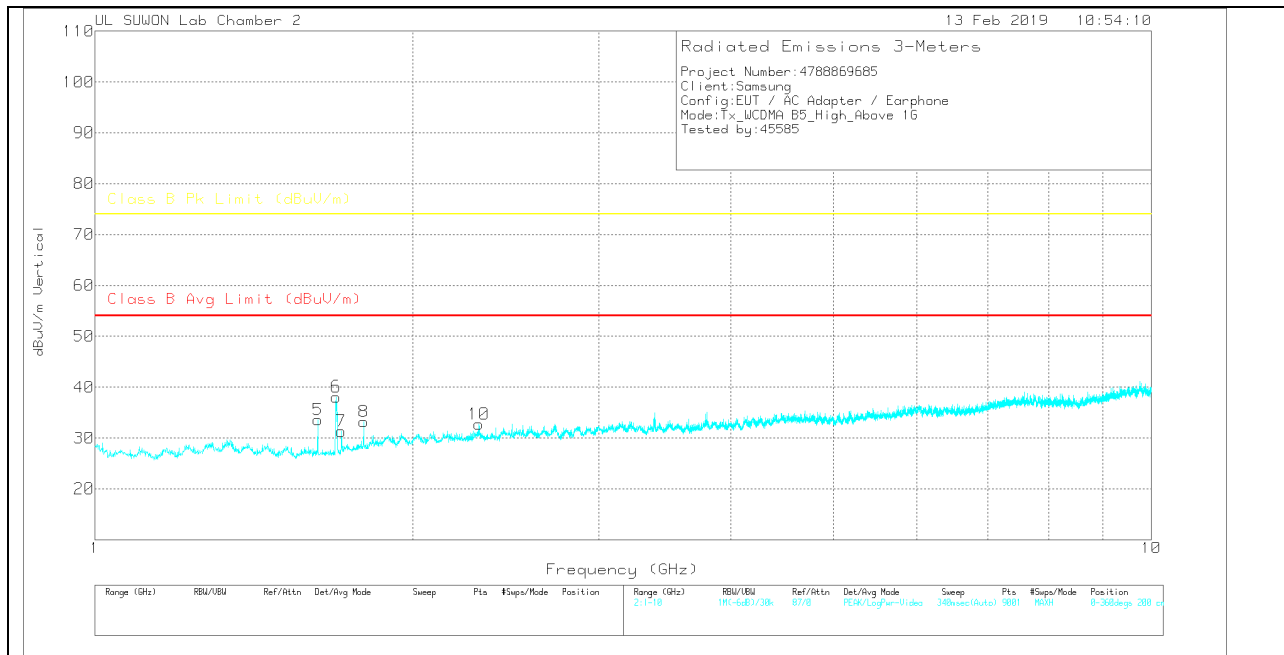
Note: Unwanted emissions on the harmonic frequency and marker pointed were generated from the call-simulator with the TX and RX signals.

HIGH CHANNEL(891.6MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSPK)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.625	39.09	PK	28.3	-31.4	.8	36.79	-	-	74	-37.21	0-360	100	H
2	1.691	44.83	PK	28.6	-31.2	.6	42.83	-	-	74	-31.17	0-360	200	H
3	1.711	37.53	PK	28.8	-31.3	.7	35.73	-	-	74	-38.27	0-360	100	H
4	1.797	37.35	PK	29.8	-31.2	.4	36.35	-	-	74	-37.65	0-360	100	H
9	2.311	32.01	PK	31.5	-30.8	.9	33.61	-	-	74	-40.39	0-360	200	H
5	1.625	35.95	PK	28.3	-31.4	.8	33.65	-	-	74	-40.35	0-360	200	V
6	1.691	40.11	PK	28.6	-31.2	.6	38.11	-	-	74	-35.89	0-360	200	V
7	1.711	33.11	PK	28.8	-31.3	.7	31.31	-	-	74	-42.69	0-360	100	V
8	1.797	34.19	PK	29.8	-31.2	.4	33.19	-	-	74	-40.81	0-360	200	V
10	2.31	31.16	PK	31.5	-30.8	.9	32.76	-	-	74	-41.24	0-360	200	V

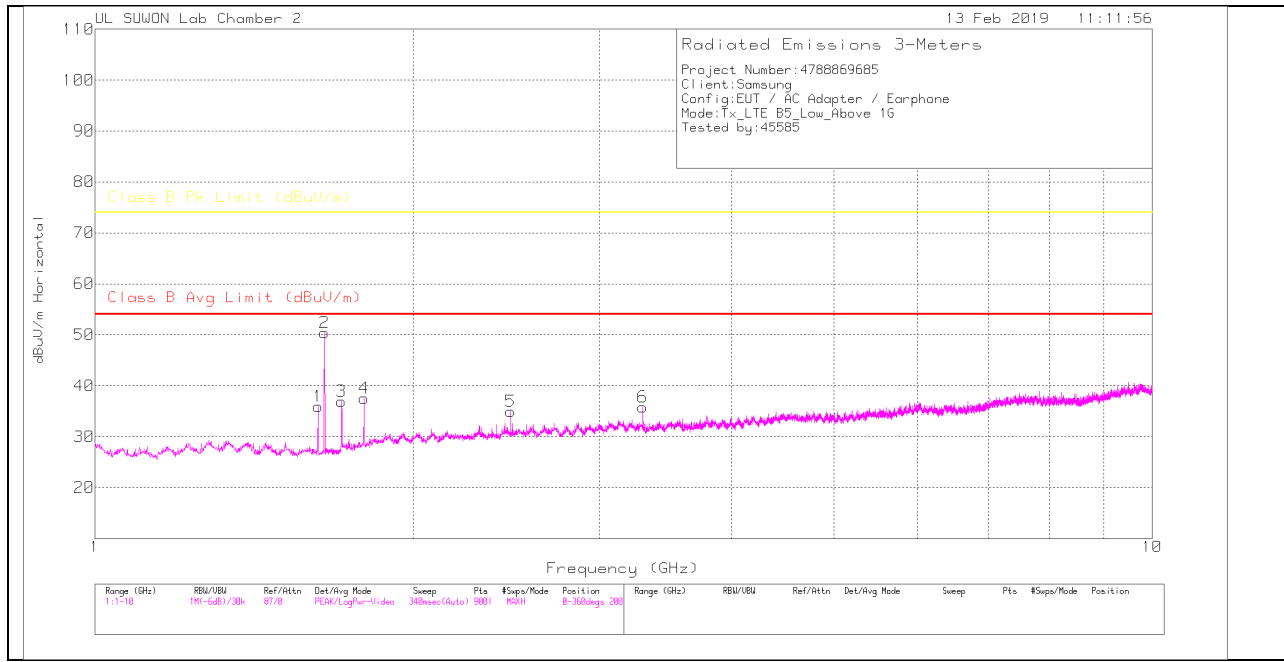
PK – Peak Detector

Note: Unwanted emissions on the harmonic frequency and marker pointed were generated from the call-simulator with the TX and RX signals.

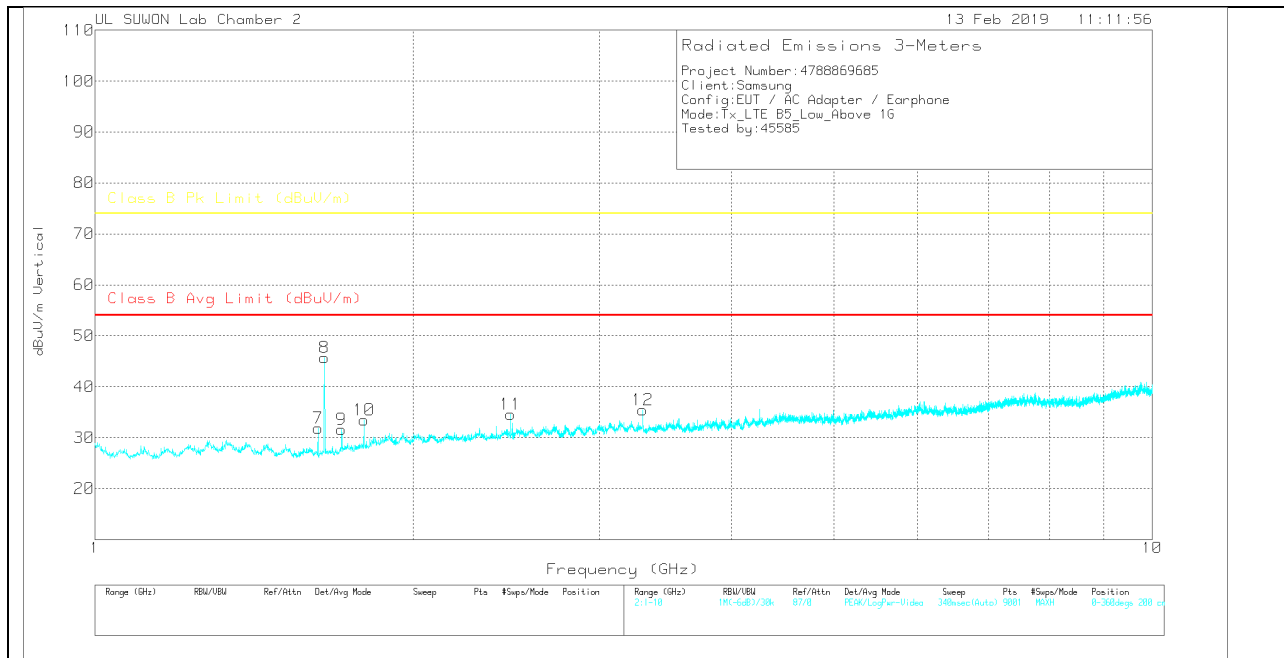
4.3. Above 1 GHz in the LTE Band 5

LOW CHANNEL(870.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

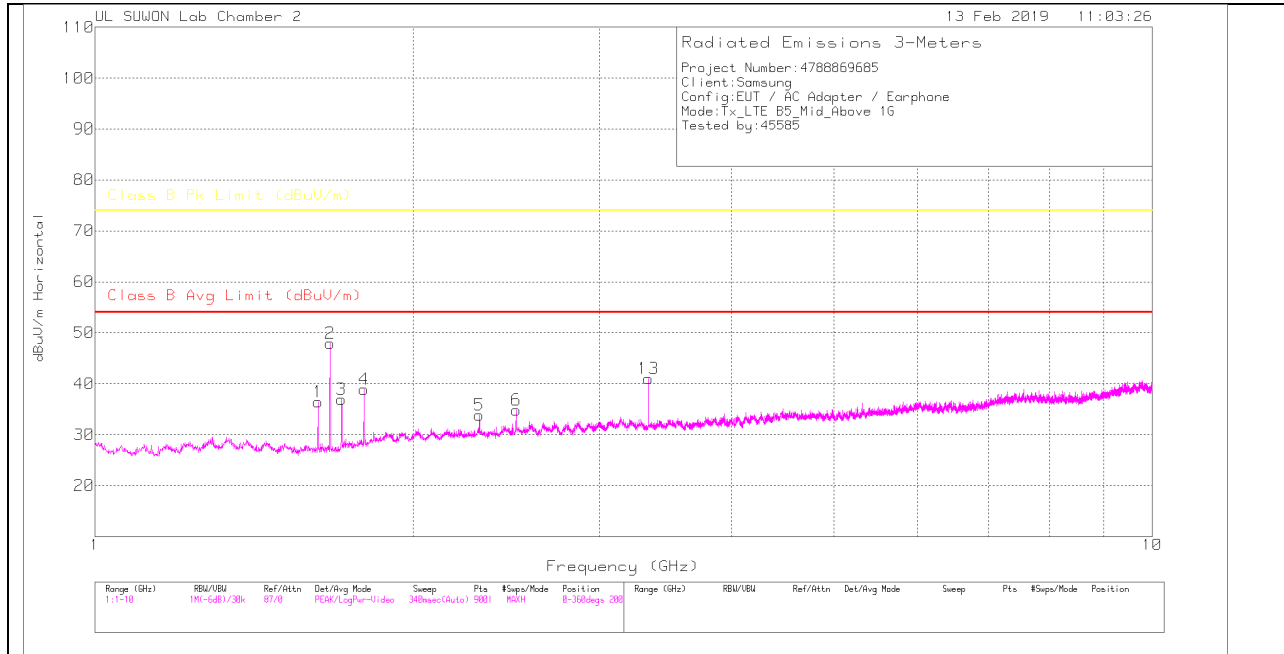
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSFR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.625	38.21	PK	28.3	-31.4	.8	35.91	-	-	74	-38.09	0-360	100	H
2	1.648	52.88	PK	28.3	-31.4	.6	50.38	-	-	74	-23.62	0-360	100	H
3	1.711	38.72	PK	28.8	-31.3	.7	36.92	-	-	74	-37.08	0-360	100	H
4	1.797	38.56	PK	29.8	-31.2	.4	37.56	-	-	74	-36.44	0-360	200	H
5	2.473	32.62	PK	31.8	-30.2	.7	34.92	-	-	74	-39.08	0-360	200	H
6	3.297	32.56	PK	32.6	-30	.7	35.86	-	-	74	-38.14	0-360	100	H
7	1.626	34.13	PK	28.3	-31.4	.8	31.83	-	-	74	-42.17	0-360	200	V
8	1.648	48.18	PK	28.3	-31.4	.6	45.68	-	-	74	-28.32	0-360	200	V
9	1.711	33.38	PK	28.8	-31.3	.7	31.58	-	-	74	-42.42	0-360	100	V
10	1.797	34.46	PK	29.8	-31.2	.4	33.46	-	-	74	-40.54	0-360	200	V
11	2.472	32.29	PK	31.8	-30.2	.7	34.59	-	-	74	-39.41	0-360	200	V
12	3.297	32.13	PK	32.6	-30	.7	35.43	-	-	74	-38.57	0-360	200	V

PK – Peak Detector

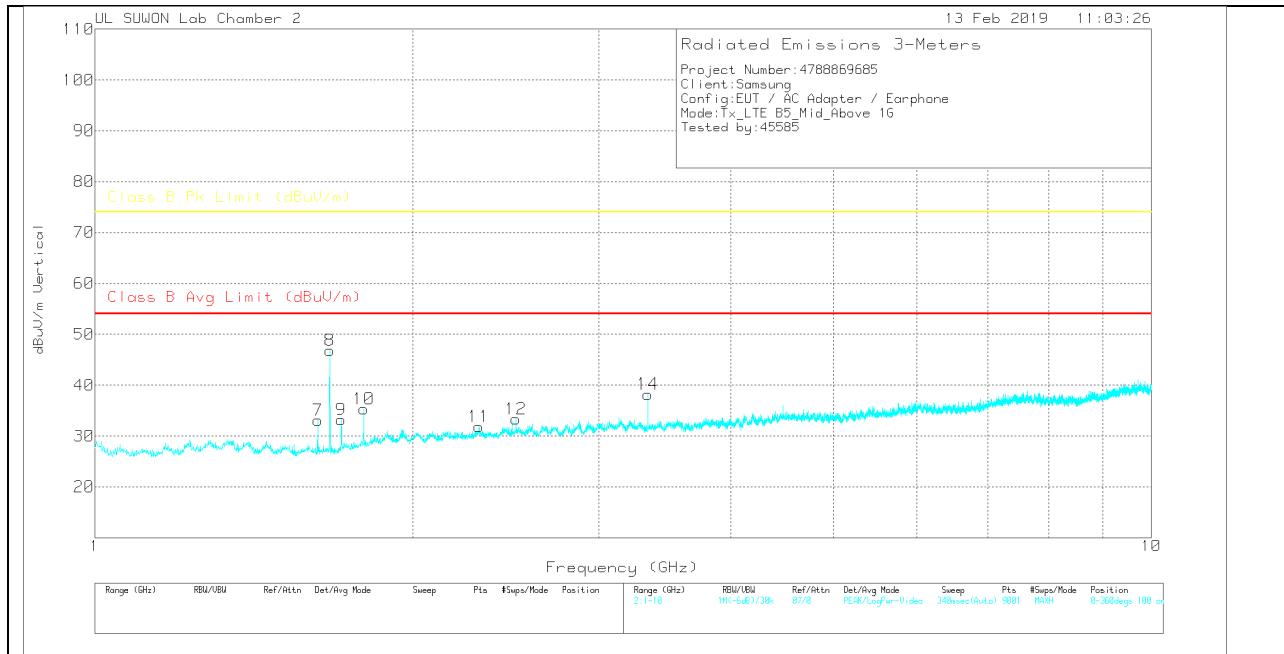
Note: Unwanted emissions on the harmonic frequency and marker pointed were generated from the call-simulator with the TX and RX signals.

MID CHANNEL(881.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

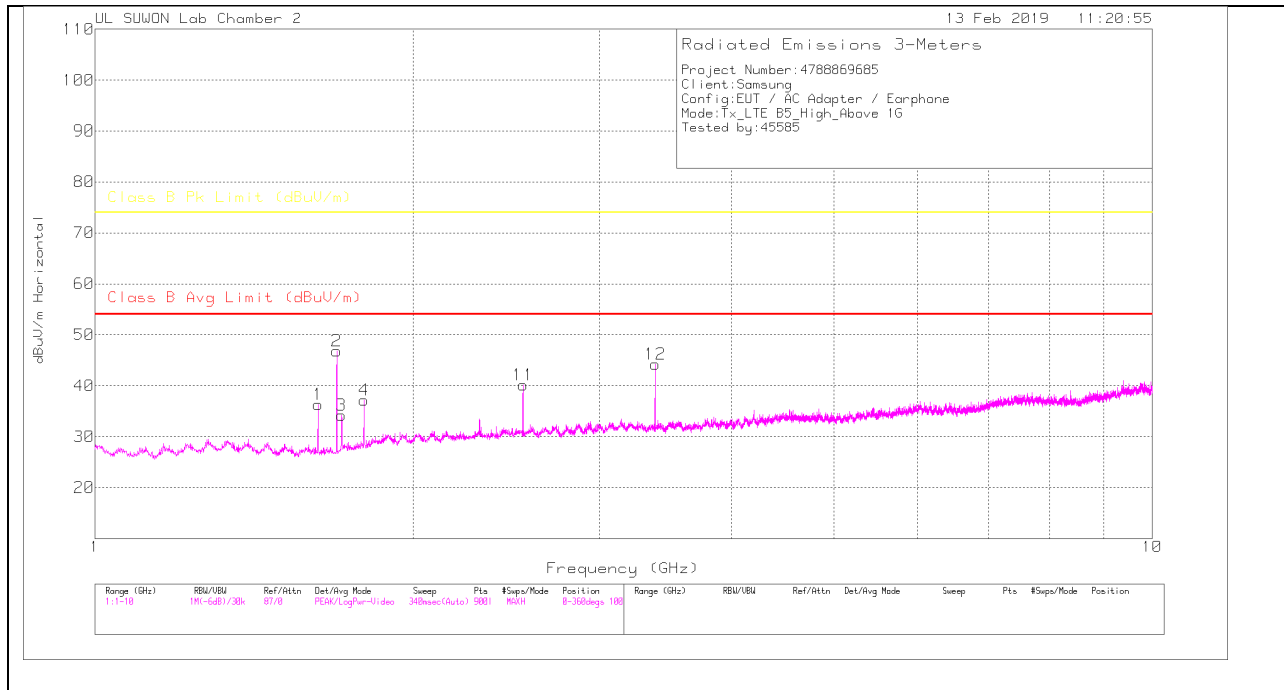
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSPK)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.626	38.78	PK	28.3	-31.4	.8	36.48	-	-	74	-37.52	0-360	100	H
2	1.668	50.37	PK	28.4	-31.3	.5	47.97	-	-	74	-26.03	0-360	200	H
3	1.711	38.78	PK	28.8	-31.3	.7	36.98	-	-	74	-37.02	0-360	100	H
4	1.797	39.89	PK	29.8	-31.2	.4	38.89	-	-	74	-35.11	0-360	200	H
5	2.31	32.29	PK	31.5	-30.8	.9	33.89	-	-	74	-40.11	0-360	200	H
6	2.502	32.58	PK	31.9	-30.2	.5	34.78	-	-	74	-39.22	0-360	100	H
13	3.337	37.87	PK	32.6	-29.9	.5	41.07	-	-	74	-32.93	0-360	200	H
7	1.626	35.45	PK	28.3	-31.4	.8	33.15	-	-	74	-40.85	0-360	200	V
8	1.668	49.22	PK	28.4	-31.3	.5	46.82	-	-	74	-27.18	0-360	200	V
9	1.711	34.98	PK	28.8	-31.3	.7	33.18	-	-	74	-40.82	0-360	200	V
10	1.797	36.35	PK	29.8	-31.2	.4	35.35	-	-	74	-38.65	0-360	200	V
11	2.31	30.32	PK	31.5	-30.8	.9	31.92	-	-	74	-42.08	0-360	200	V
12	2.503	31.1	PK	31.9	-30.1	.5	33.4	-	-	74	-40.6	0-360	200	V
14	3.337	35.03	PK	32.6	-29.9	.5	38.23	-	-	74	-35.77	0-360	100	V

PK – Peak Detector

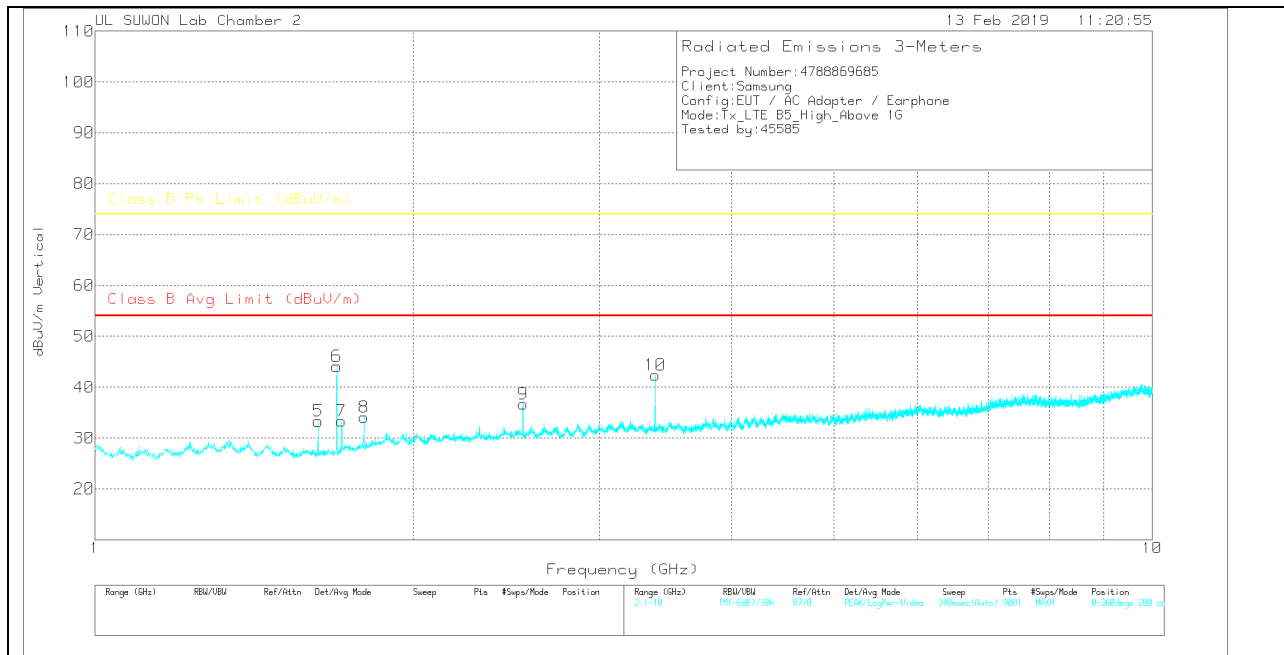
Note: Unwanted emissions on the harmonic frequency and marker pointed were generated from the call-simulator with the TX and RX signals.

HIGH CHANNEL(892.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSPK)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.626	38.66	PK	28.3	-31.4	.8	36.36	-	-	74	-37.64	0-360	100	H
2	1.693	48.93	PK	28.6	-31.3	.6	46.83	-	-	74	-27.17	0-360	200	H
3	1.711	35.98	PK	28.8	-31.3	.7	34.18	-	-	74	-39.82	0-360	100	H
4	1.797	38.23	PK	29.8	-31.2	.4	37.23	-	-	74	-36.77	0-360	200	H
11	2.54	37.51	PK	32	-30.1	.7	40.11	-	-	74	-33.89	0-360	200	H
12	3.387	40.48	PK	32.6	-29.5	.7	44.28	-	-	74	-29.72	0-360	100	H
5	1.626	35.59	PK	28.3	-31.4	.8	33.29	-	-	74	-40.71	0-360	200	V
6	1.693	46.23	PK	28.6	-31.3	.6	44.13	-	-	74	-29.87	0-360	200	V
7	1.711	35.19	PK	28.8	-31.3	.7	33.39	-	-	74	-40.61	0-360	200	V
8	1.797	35.04	PK	29.8	-31.2	.4	34.04	-	-	74	-39.96	0-360	200	V
9	2.54	34.14	PK	32	-30.1	.7	36.74	-	-	74	-37.26	0-360	200	V
10	3.387	38.53	PK	32.6	-29.5	.7	42.33	-	-	74	-31.67	0-360	200	V

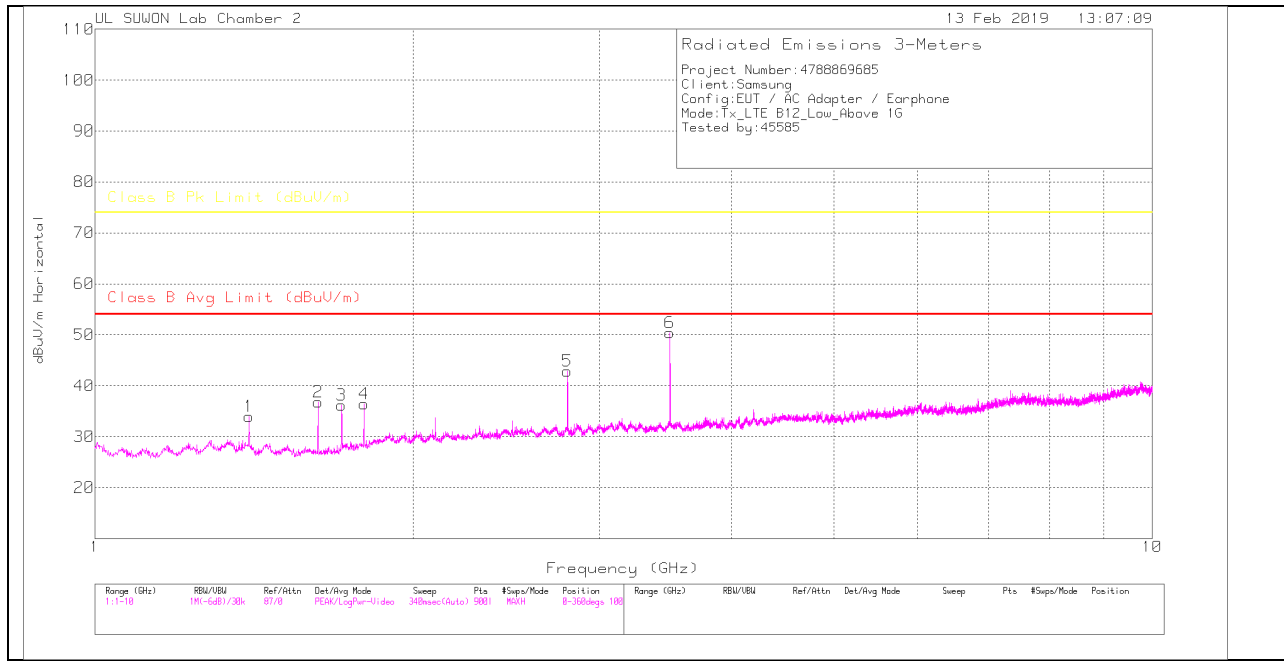
PK – Peak Detector

Note: Unwanted emissions on the harmonic frequency and marker pointed were generated from the call-simulator with the TX and RX signals.

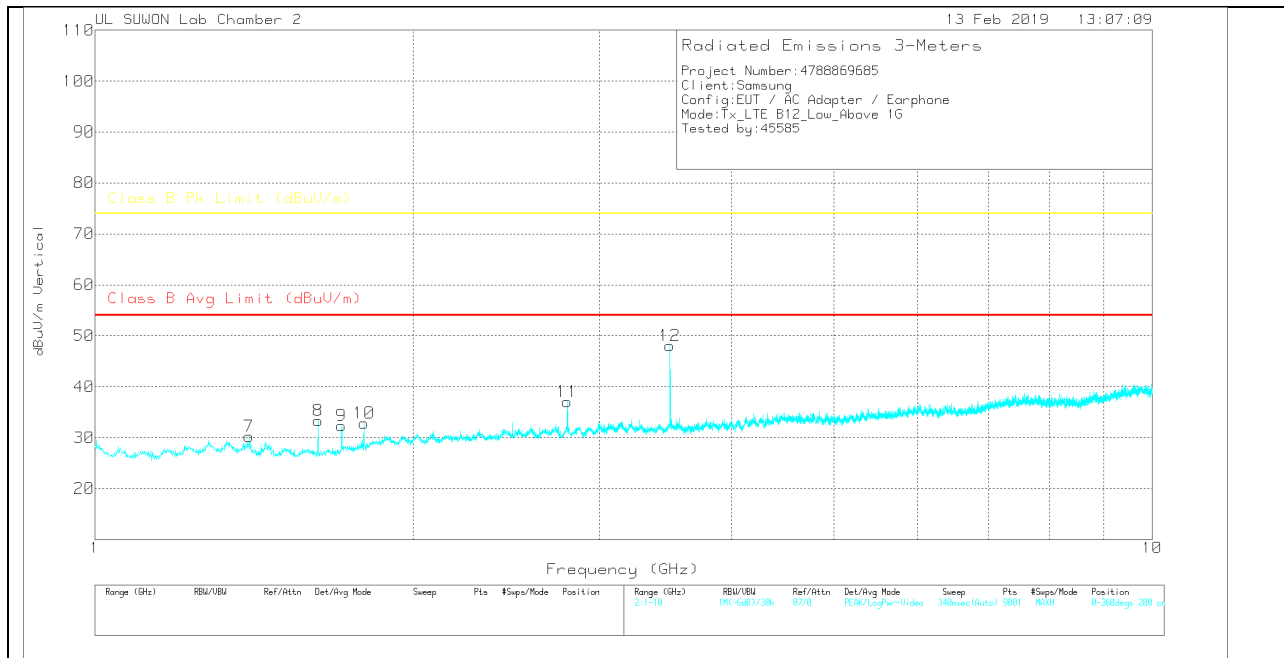
4.4. Above 1 GHz in the LTE Band 12

LOW CHANNEL(730.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

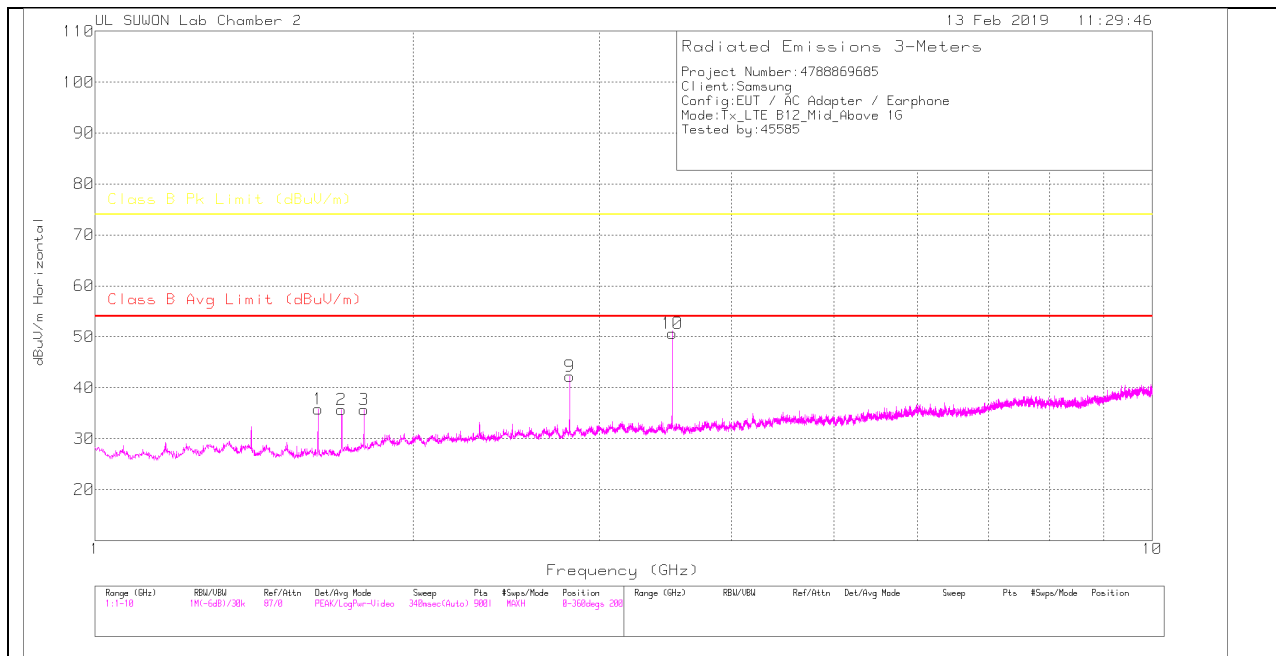
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSFR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.399	35.67	PK	29.4	-31.7	.6	33.97	-	-	74	-40.03	0-360	100	H
2	1.626	39.12	PK	28.3	-31.4	.8	36.82	-	-	74	-37.18	0-360	100	H
3	1.711	37.98	PK	28.8	-31.3	.7	36.18	-	-	74	-37.82	0-360	100	H
4	1.797	37.44	PK	29.8	-31.2	.4	36.44	-	-	74	-37.56	0-360	200	H
5	2.798	40.26	PK	32	-29.9	.5	42.86	-	-	74	-31.14	0-360	100	H
6	3.498	46.09	PK	32.7	-29	.6	50.39	-	-	74	-23.61	0-360	100	H
7	1.399	31.9	PK	29.4	-31.7	.6	30.2	-	-	74	-43.8	0-360	200	V
8	1.626	35.61	PK	28.3	-31.4	.8	33.31	-	-	74	-40.69	0-360	200	V
9	1.711	34.13	PK	28.8	-31.3	.7	32.33	-	-	74	-41.67	0-360	200	V
10	1.797	34.1	PK	29.7	-31.3	.4	32.9	-	-	74	-41.1	0-360	200	V
11	2.798	34.48	PK	32	-29.9	.5	37.08	-	-	74	-36.92	0-360	200	V
12	3.498	43.76	PK	32.7	-29	.6	48.06	-	-	74	-25.94	0-360	200	V

PK – Peak Detector

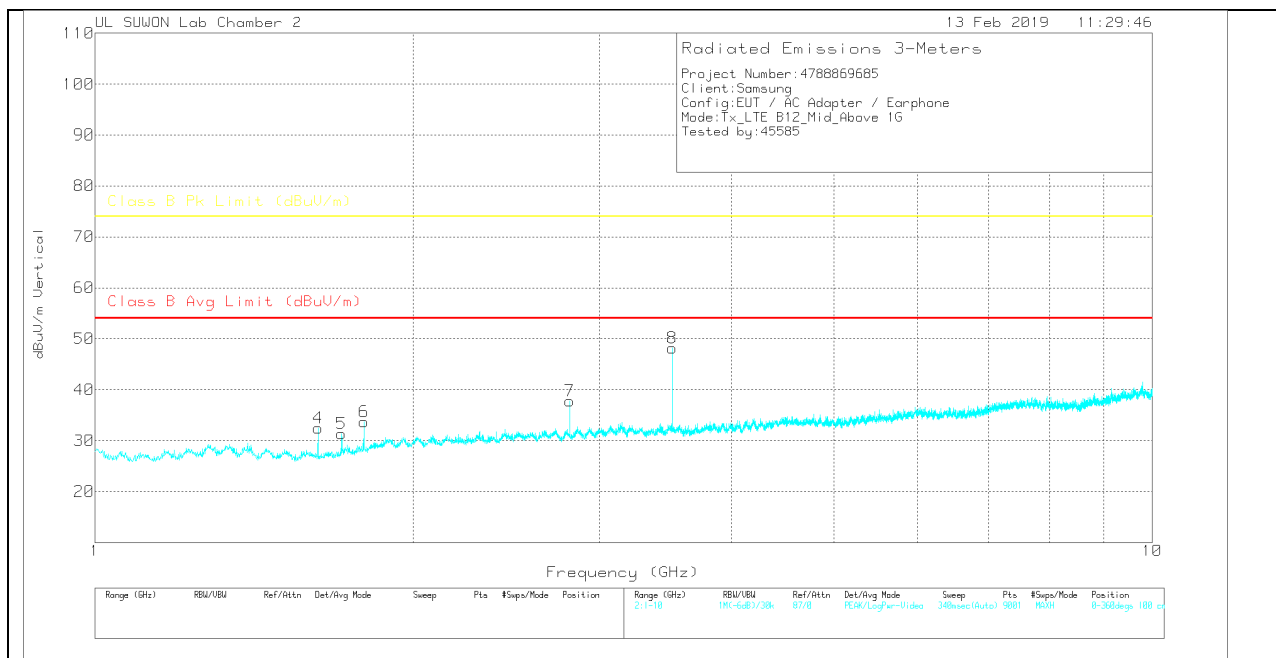
Note: Unwanted emissions on the harmonic frequency and marker pointed were generated from the call-simulator with the TX and RX signals.

MID CHANNEL(737.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

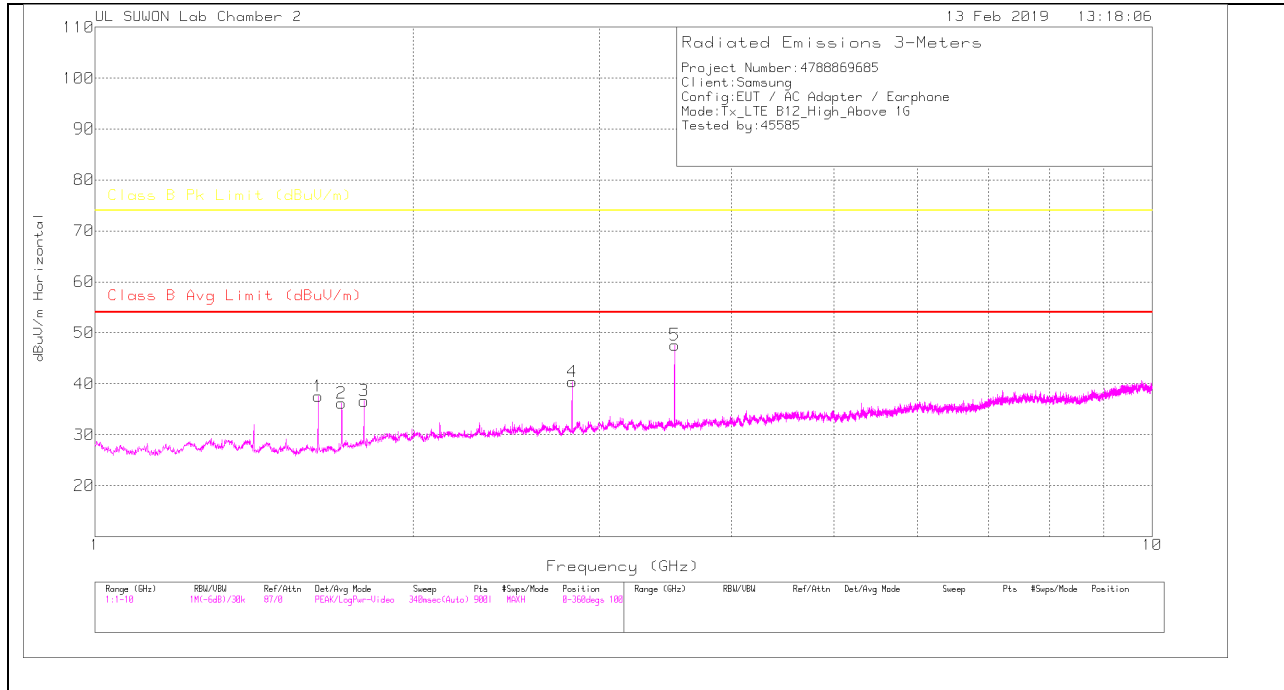
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSPK)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.626	38.13	PK	28.3	-31.4	.8	35.83	-	-	74	-38.17	0-360	100	H
2	1.711	37.5	PK	28.8	-31.3	.7	35.7	-	-	74	-38.3	0-360	100	H
3	1.797	36.74	PK	29.8	-31.2	.4	35.74	-	-	74	-38.26	0-360	100	H
9	2.812	39.59	PK	32	-29.9	.6	42.29	-	-	74	-31.71	0-360	100	H
10	3.515	46.22	PK	32.7	-28.9	.6	50.62	-	-	74	-23.38	0-360	200	H
4	1.626	34.81	PK	28.3	-31.4	.8	32.51	-	-	74	-41.49	0-360	200	V
5	1.711	33.22	PK	28.8	-31.3	.7	31.42	-	-	74	-42.58	0-360	100	V
6	1.797	34.74	PK	29.8	-31.2	.4	33.74	-	-	74	-40.26	0-360	200	V
7	2.812	35.05	PK	32	-29.9	.6	37.75	-	-	74	-36.25	0-360	200	V
8	3.515	43.79	PK	32.7	-28.9	.6	48.19	-	-	74	-25.81	0-360	100	V

PK – Peak Detector

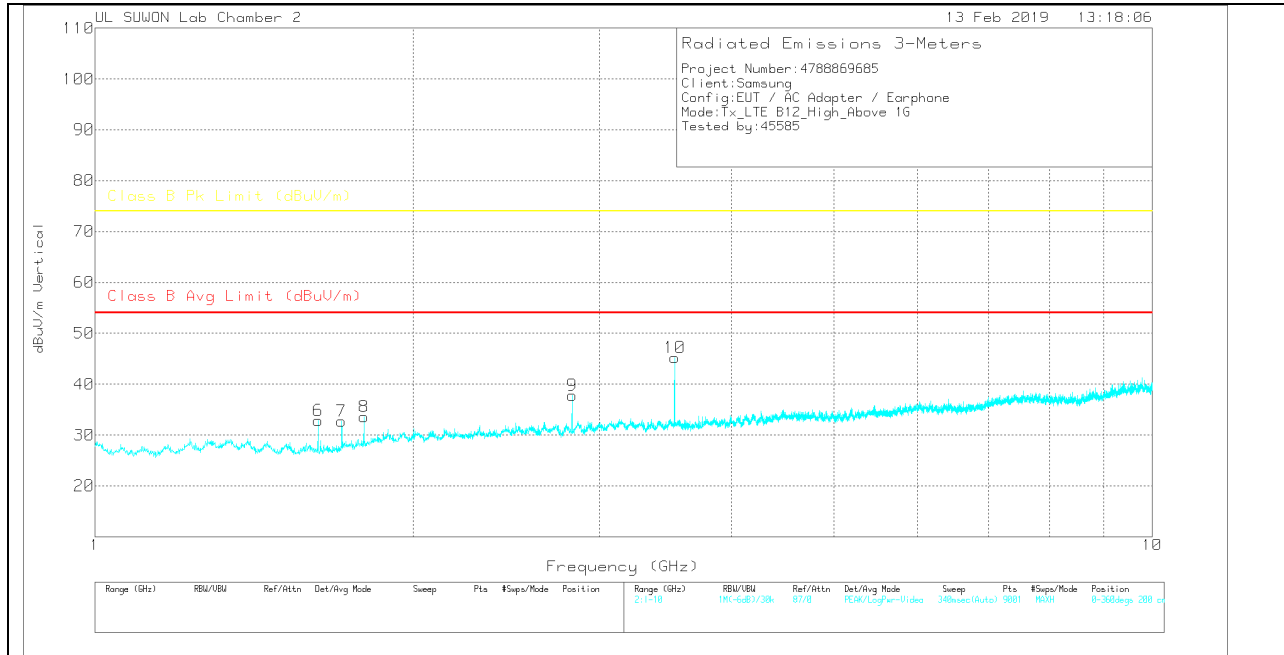
Note: Unwanted emissions on the harmonic frequency and marker pointed were generated from the call-simulator with the TX and RX signals.

HIGH CHANNEL(744.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSPK)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.626	39.82	PK	28.3	-31.4	.8	37.52	-	-	74	-36.48	0-360	100	H
2	1.711	37.95	PK	28.8	-31.3	.7	36.15	-	-	74	-37.85	0-360	100	H
3	1.797	37.63	PK	29.8	-31.2	.4	36.63	-	-	74	-37.37	0-360	200	H
4	2.826	37.43	PK	32	-29.8	.8	40.43	-	-	74	-33.57	0-360	100	H
5	3.533	43.33	PK	32.7	-29	.6	47.63	-	-	74	-26.37	0-360	200	H
6	1.626	35.17	PK	28.3	-31.4	.8	32.87	-	-	74	-41.13	0-360	200	V
7	1.711	34.52	PK	28.8	-31.3	.7	32.72	-	-	74	-41.28	0-360	200	V
8	1.797	34.56	PK	29.8	-31.2	.4	33.56	-	-	74	-40.44	0-360	200	V
9	2.826	34.77	PK	32	-29.8	.8	37.77	-	-	74	-36.23	0-360	200	V
10	3.533	40.96	PK	32.7	-29	.6	45.26	-	-	74	-28.74	0-360	100	V

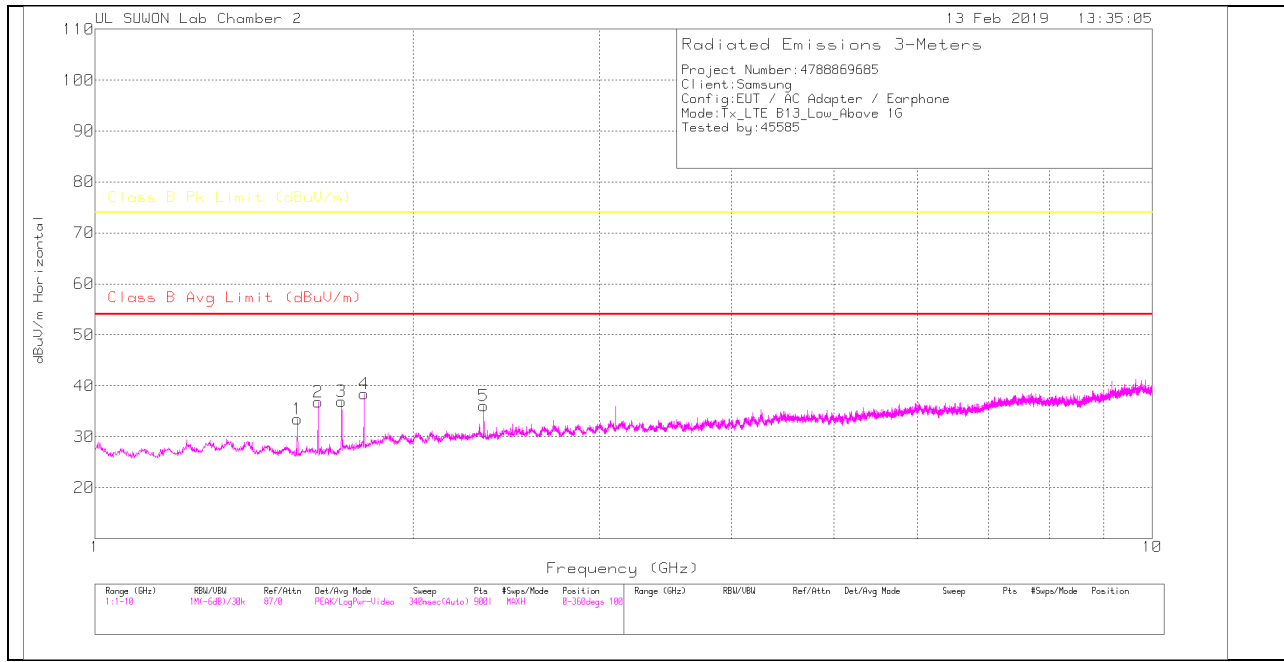
PK – Peak Detector

Note: Unwanted emissions on the harmonic frequency and marker pointed were generated from the call-simulator with the TX and RX signals.

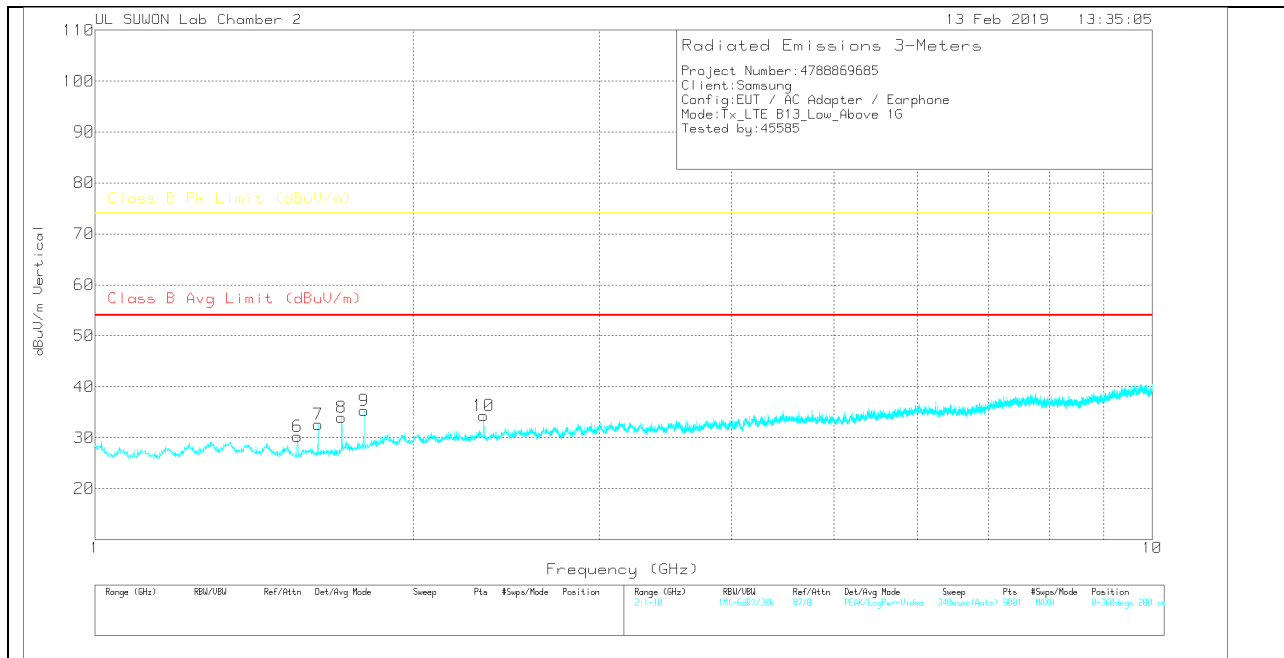
4.5. Above 1 GHz in the LTE Band 13

LOW CHANNEL(748.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

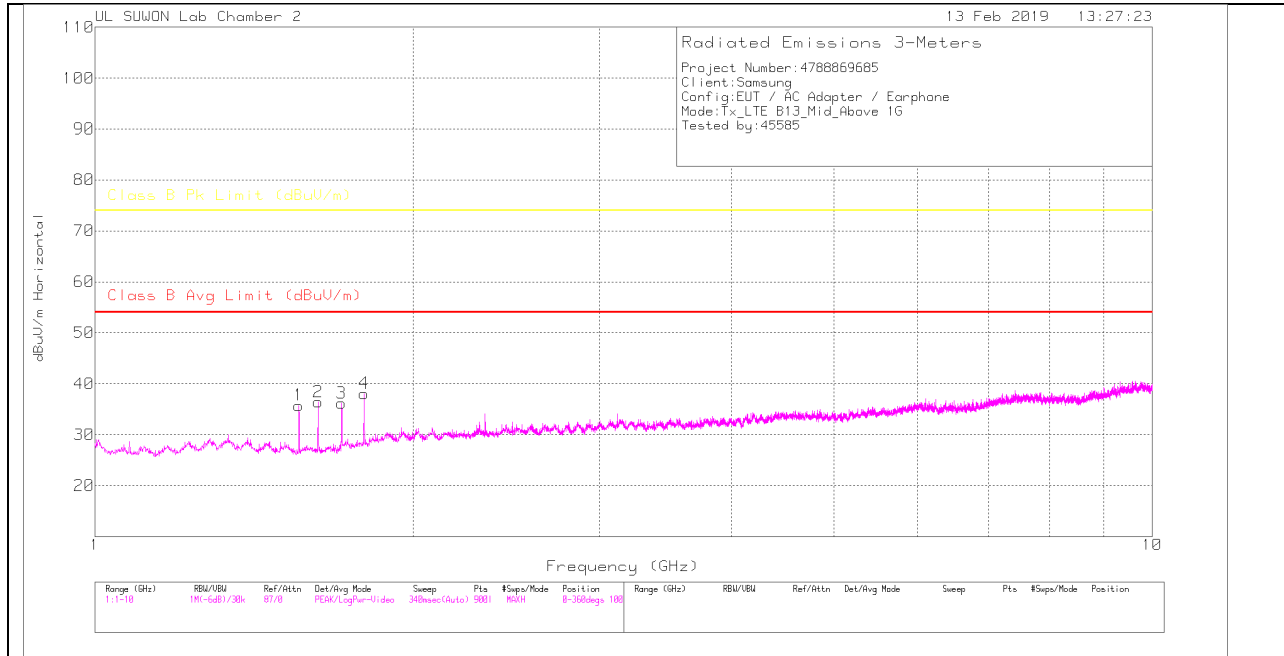
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSFR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.554	36.12	PK	28.3	-31.4	.5	33.52	-	-	74	-40.48	0-360	200	H
2	1.626	39.12	PK	28.3	-31.4	.8	36.82	-	-	74	-37.18	0-360	100	H
3	1.711	38.76	PK	28.8	-31.3	.7	36.96	-	-	74	-37.04	0-360	100	H
4	1.797	39.46	PK	29.8	-31.2	.4	38.46	-	-	74	-35.54	0-360	200	H
5	2.332	34.53	PK	31.5	-30.7	.7	36.03	-	-	74	-37.97	0-360	100	H
6	1.554	32.87	PK	28.3	-31.4	.5	30.27	-	-	74	-43.73	0-360	200	V
7	1.626	34.96	PK	28.3	-31.4	.8	32.66	-	-	74	-41.34	0-360	200	V
8	1.711	35.82	PK	28.8	-31.3	.7	34.02	-	-	74	-39.98	0-360	200	V
9	1.797	36.33	PK	29.8	-31.2	.4	35.33	-	-	74	-38.67	0-360	200	V
10	2.332	32.83	PK	31.5	-30.7	.7	34.33	-	-	74	-39.67	0-360	200	V

PK – Peak Detector

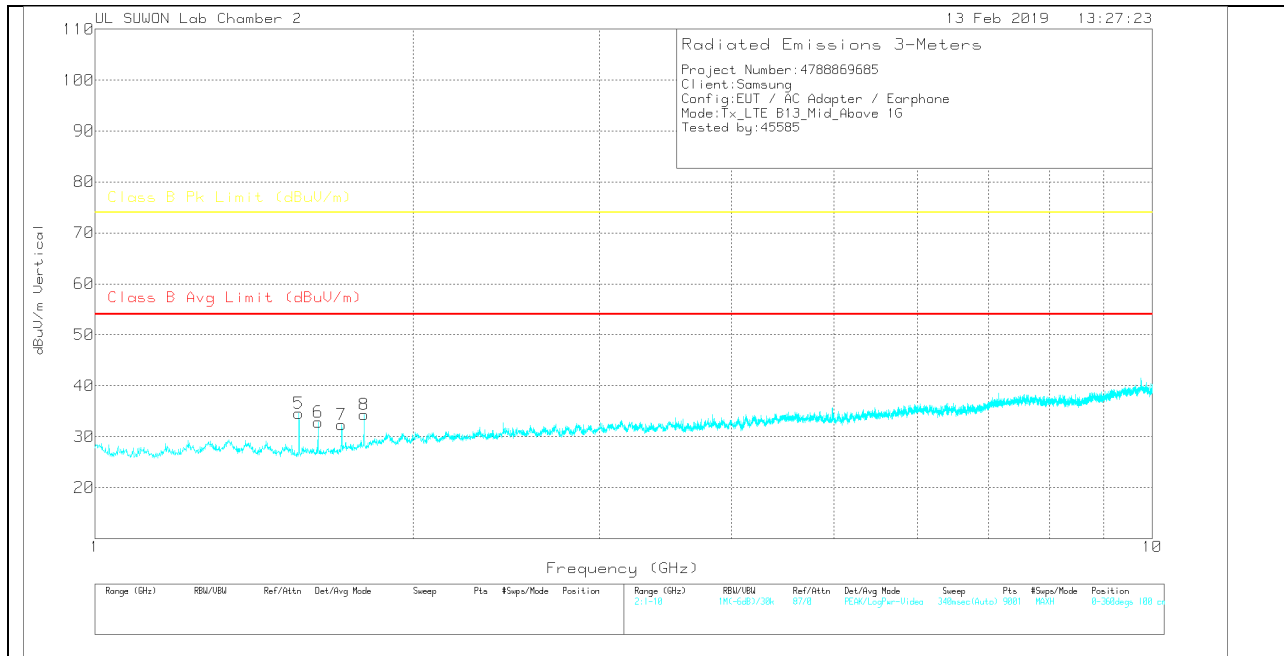
Note: Unwanted emissions on the harmonic frequency and marker pointed were generated from the call-simulator with the TX and RX signals.

MID CHANNEL(751.0MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

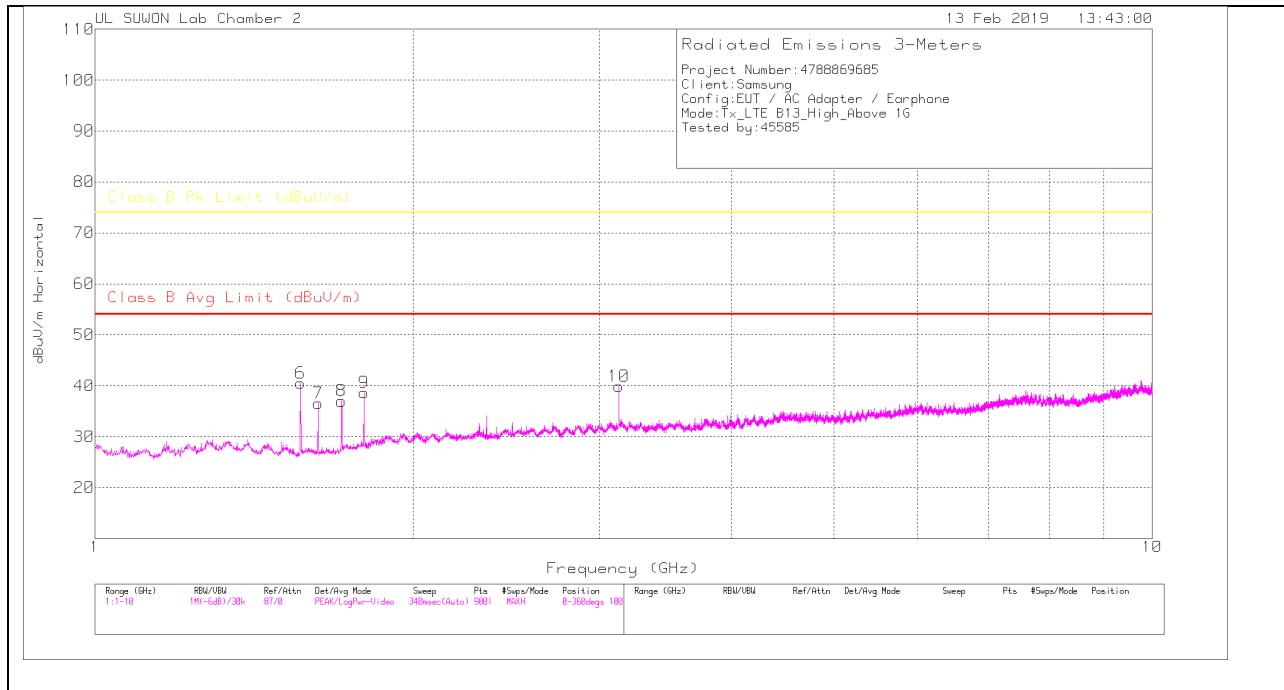
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSPK)Margin (dB)	Class B PK Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.559	38.26	PK	28.3	-31.4	.6	35.76	-	-	74	-38.24	0-360	200	H
2	1.626	38.75	PK	28.3	-31.4	.8	36.45	-	-	74	-37.55	0-360	100	H
3	1.711	37.98	PK	28.8	-31.3	.7	36.18	-	-	74	-37.82	0-360	100	H
4	1.797	39.11	PK	29.8	-31.2	.4	38.11	-	-	74	-35.89	0-360	200	H
5	1.559	37.1	PK	28.3	-31.4	.6	34.6	-	-	74	-39.4	0-360	200	V
6	1.626	35.15	PK	28.3	-31.4	.8	32.85	-	-	74	-41.15	0-360	200	V
7	1.711	34.14	PK	28.8	-31.3	.7	32.34	-	-	74	-41.66	0-360	200	V
8	1.797	35.38	PK	29.8	-31.2	.4	34.38	-	-	74	-39.62	0-360	200	V

PK – Peak Detector

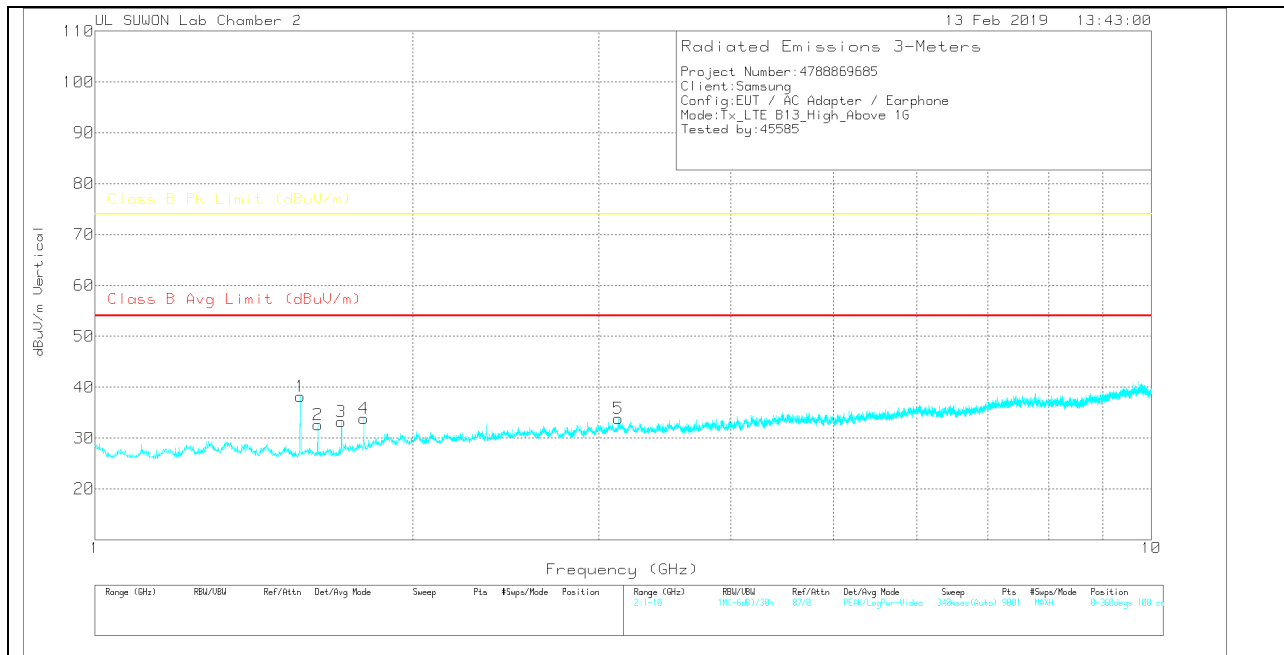
Note: Unwanted emissions on the harmonic frequency and marker pointed were generated from the call-simulator with the TX and RX signals.

HIGH CHANNEL(753.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSPK)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	1.564	43	PK	28.3	-31.4	.6	40.5	-	-	74	-33.5	0-360	100	H
7	1.626	38.82	PK	28.3	-31.4	.8	36.52	-	-	74	-37.48	0-360	100	H
8	1.711	38.8	PK	28.8	-31.3	.7	37	-	-	74	-37	0-360	100	H
9	1.797	39.65	PK	29.8	-31.2	.4	38.65	-	-	74	-35.35	0-360	200	H
10	3.129	36.04	PK	32.9	-29.7	.7	39.94	-	-	74	-34.06	0-360	100	H
1	1.564	40.7	PK	28.3	-31.4	.6	38.2	-	-	74	-35.8	0-360	200	V
2	1.626	34.86	PK	28.3	-31.4	.8	32.56	-	-	74	-41.44	0-360	200	V
3	1.711	35.01	PK	28.8	-31.3	.7	33.21	-	-	74	-40.79	0-360	200	V
4	1.797	34.81	PK	29.8	-31.2	.4	33.81	-	-	74	-40.19	0-360	200	V
5	3.129	29.96	PK	32.9	-29.7	.7	33.86	-	-	74	-40.14	0-360	100	V

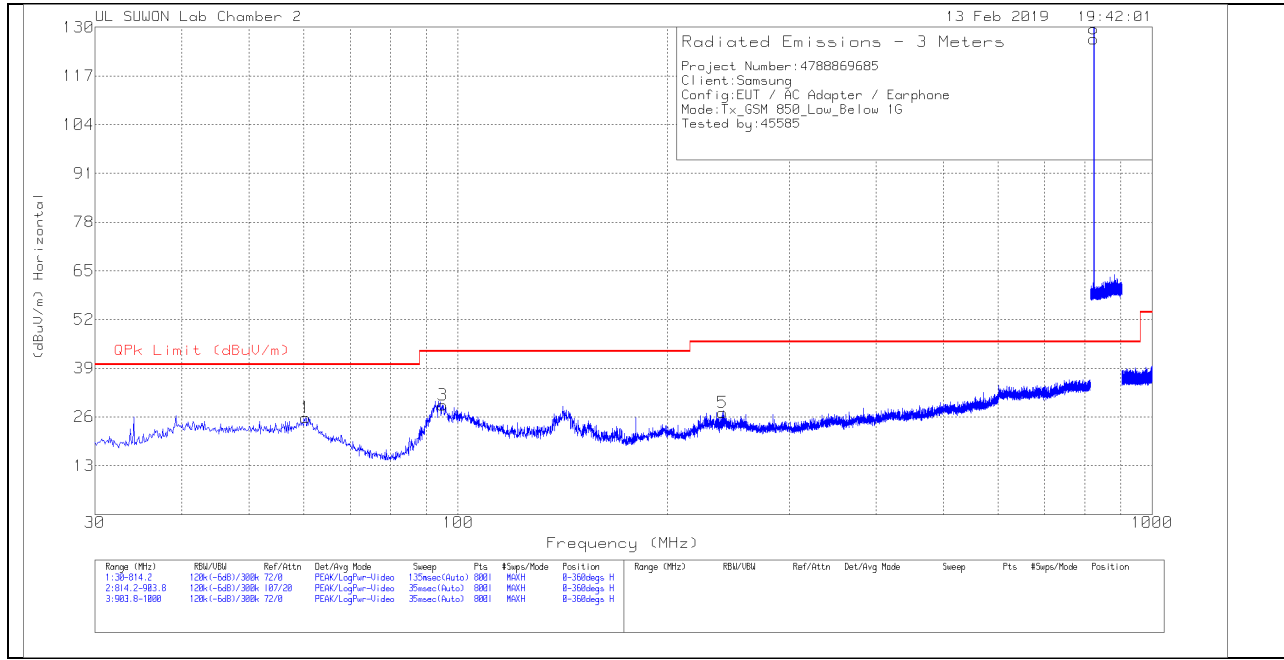
PK – Peak Detector

Note: Unwanted emissions on the harmonic frequency and marker pointed were generated from the call-simulator with the TX and RX signals.

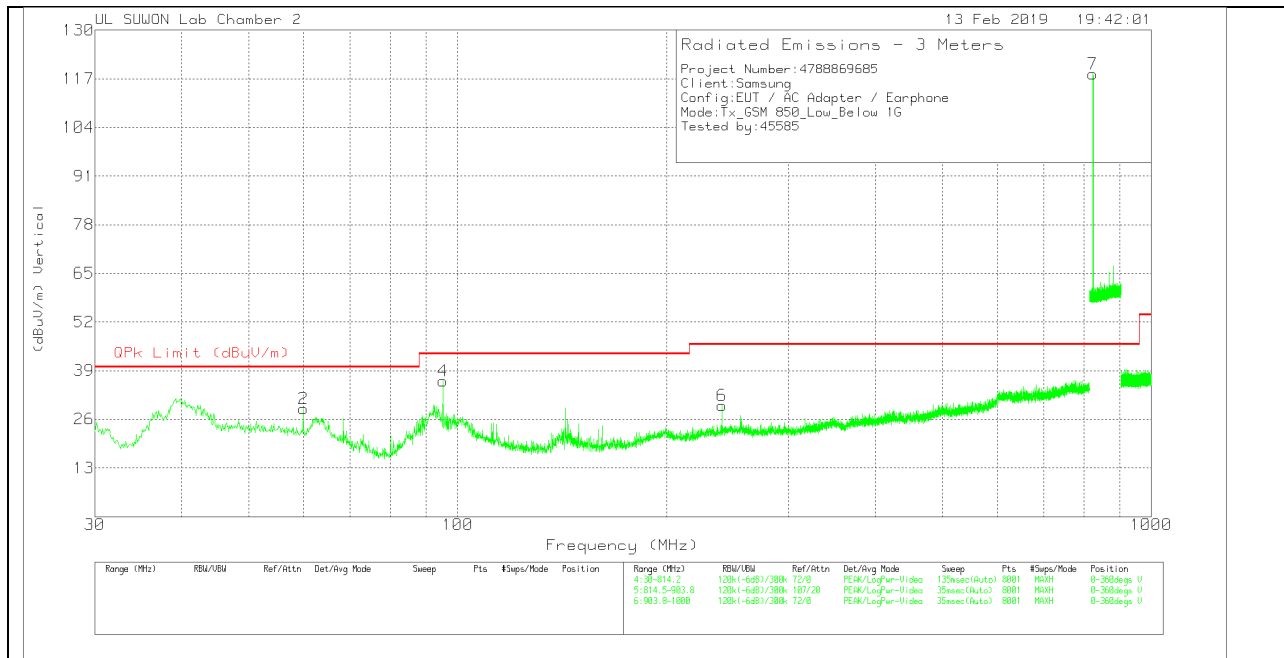
4.6. Below 1 GHz in the GSM850

LOW CHANNEL(869.2MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

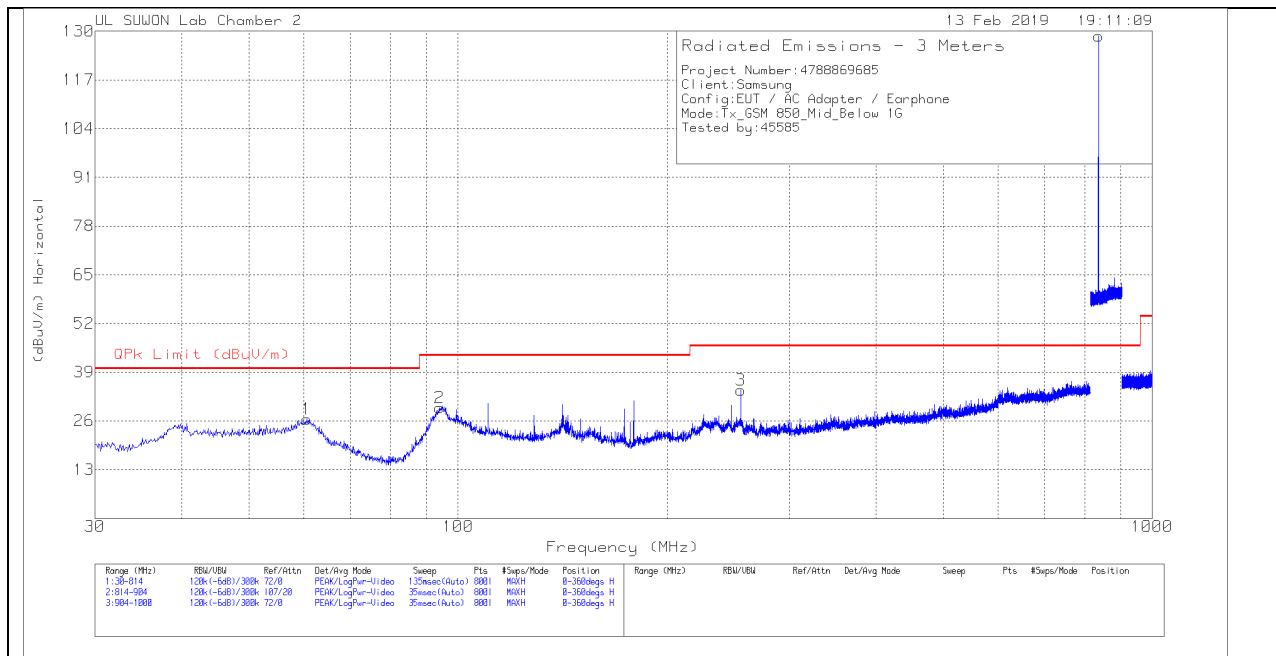
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	60.2897	6.46	Pk	18.5	.8	25.76	40	-14.24	0-360	400	H
3	94.9906	10.98	Pk	17.2	1	29.18	43.52	-14.34	0-360	300	H
5	240.6557	6.9	Pk	18.6	1.7	27.2	46.02	-18.82	0-360	100	H
8	824.1344	96.83	Pk	26.9	3.1	126.83	46.02	80.81	0-360	100	H
2	59.8976	9.53	Pk	18.5	.8	28.83	40	-11.17	0-360	100	V
4	95.1866	17.96	Pk	17.2	1	36.16	43.52	-7.36	0-360	100	V
6	240.5577	9.32	Pk	18.6	1.7	29.62	46.02	-16.4	0-360	200	V
7	824.1113	88.31	Pk	26.9	3.1	118.31	46.02	72.29	0-360	200	V

Pk - Peak detector

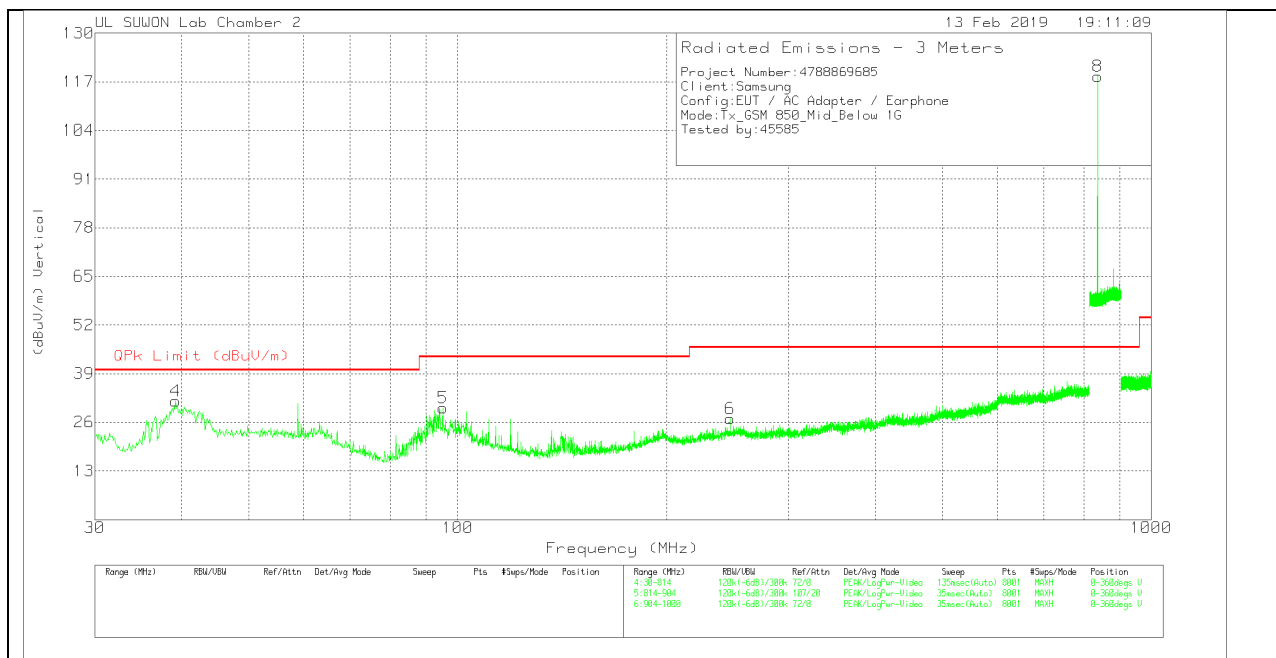
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(881.6MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

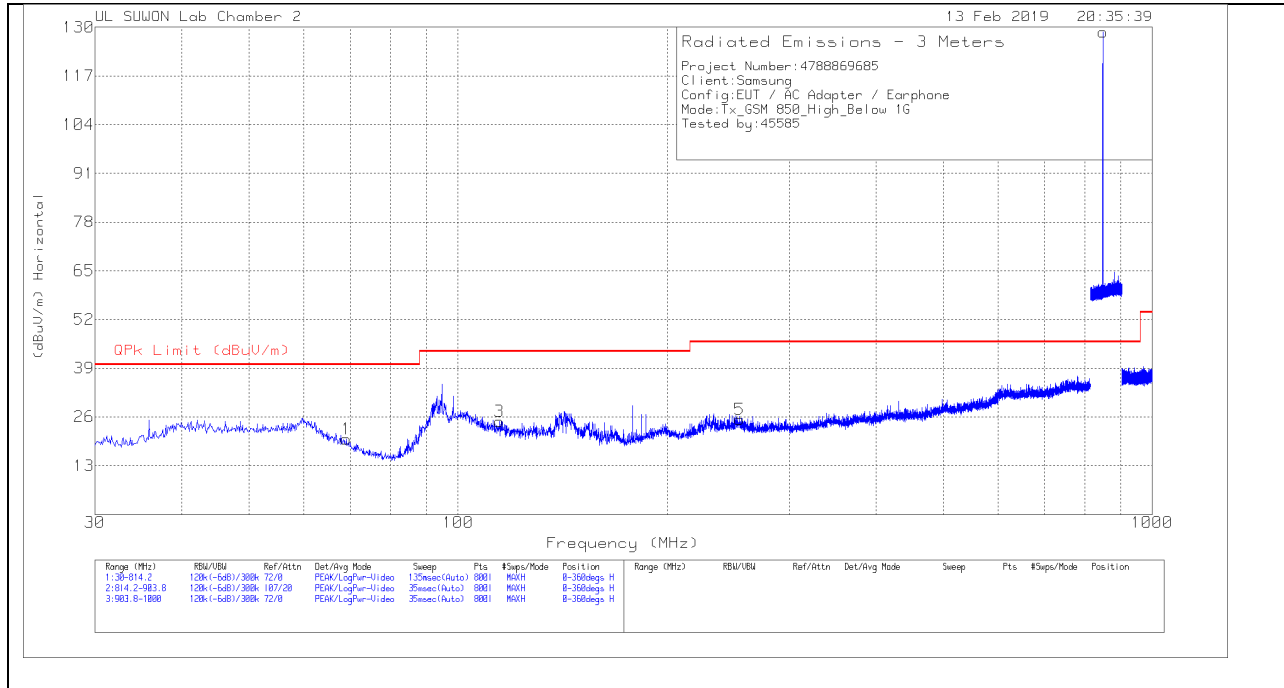
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	60.576	7.22	Pk	18.4	.8	26.42	40	-13.58	0-360	400	H
2	93.994	11.61	Pk	16.9	1	29.51	43.52	-14.01	0-360	300	H
3	255.498	13.39	Pk	19.1	1.7	34.19	46.02	-11.83	0-360	300	H
7	836.5675	98.54	Pk	27.1	3.1	128.74	46.02	82.72	0-360	100	H
4	39.212	12.44	Pk	18.5	.7	31.64	40	-8.36	0-360	100	V
5	95.17	11.59	Pk	17.2	1	29.79	43.52	-13.73	0-360	100	V
6	247.168	6.4	Pk	18.9	1.7	27	46.02	-19.02	0-360	100	V
8	836.6463	88.28	Pk	27.1	3.1	118.48	46.02	72.46	0-360	200	V

Pk - Peak detector

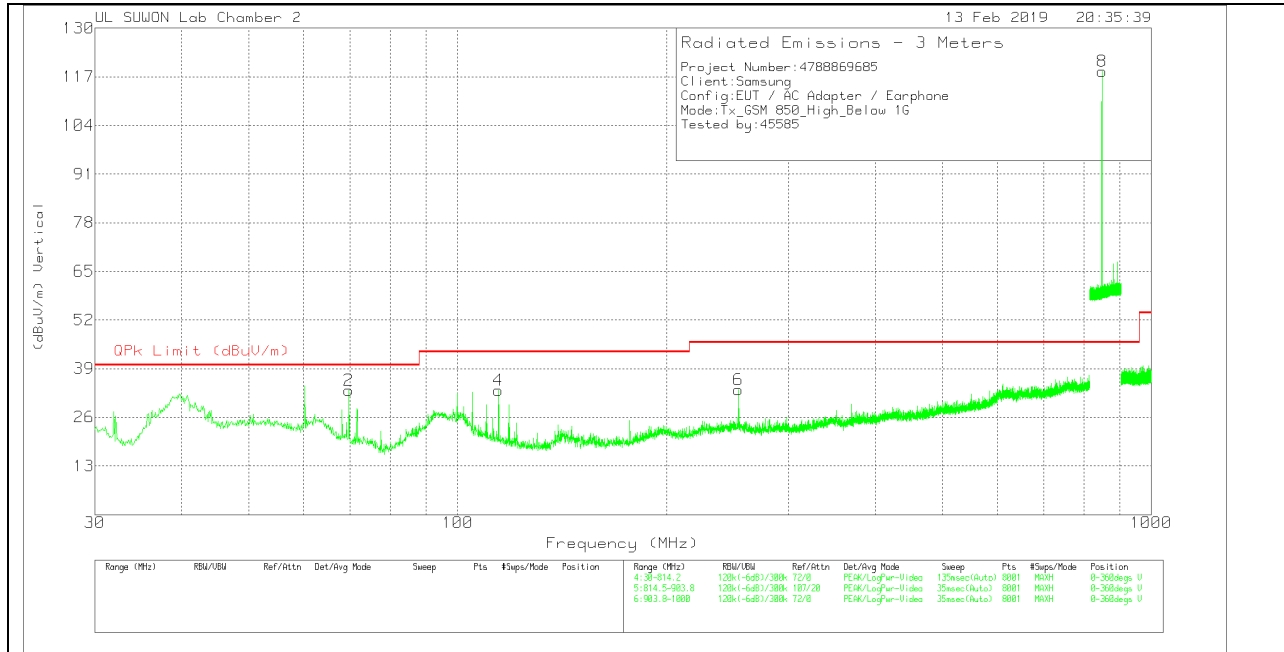
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(893.8MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	69.014	3.3	Pk	15.9	.9	20.1	40	-19.9	0-360	300	H
3	114.6936	7.47	Pk	16.3	1.1	24.87	43.52	-18.65	0-360	300	H
5	254.2812	4.33	Pk	19.2	1.7	25.23	46.02	-20.79	0-360	200	H
7	848.7408	98.17	Pk	27.4	3.2	128.77	46.02	82.75	0-360	100	H
2	69.7001	16.71	Pk	15.6	.9	33.21	40	-6.79	0-360	400	V
4	114.4976	15.82	Pk	16.3	1.1	33.22	43.52	-10.3	0-360	100	V
6	254.0852	12.56	Pk	19.1	1.7	33.36	46.02	-12.66	0-360	200	V
8	848.7927	87.85	Pk	27.4	3.2	118.45	46.02	72.43	0-360	200	V

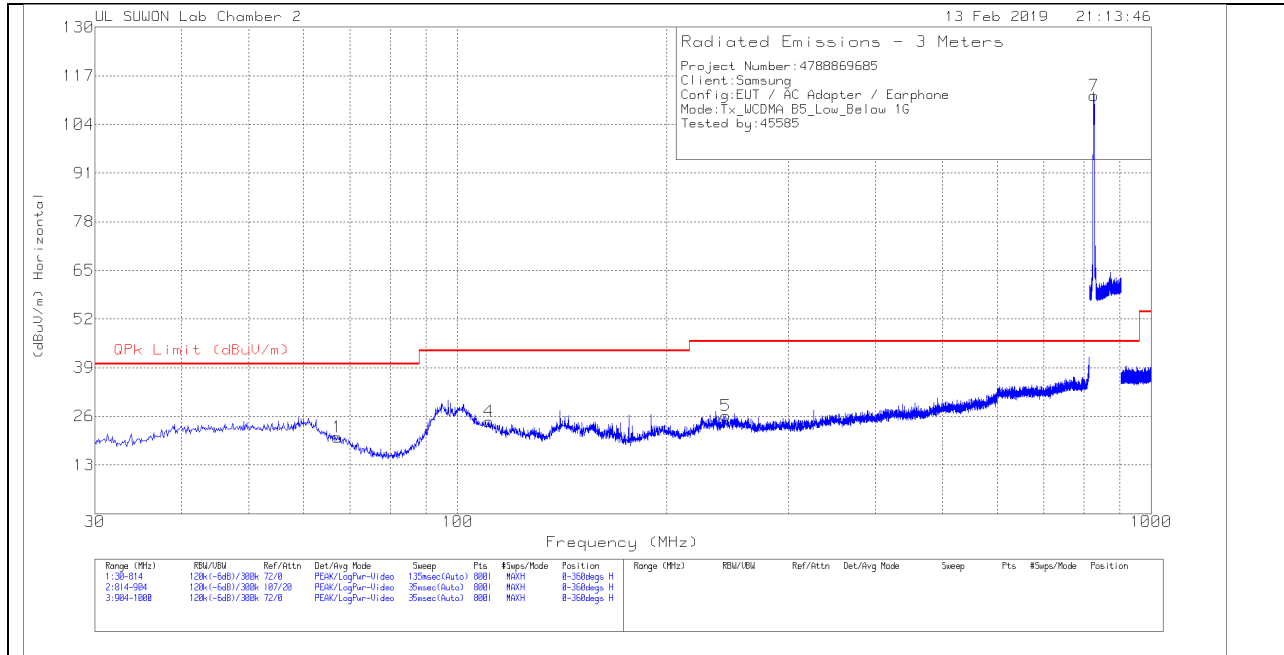
Pk - Peak detector

Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

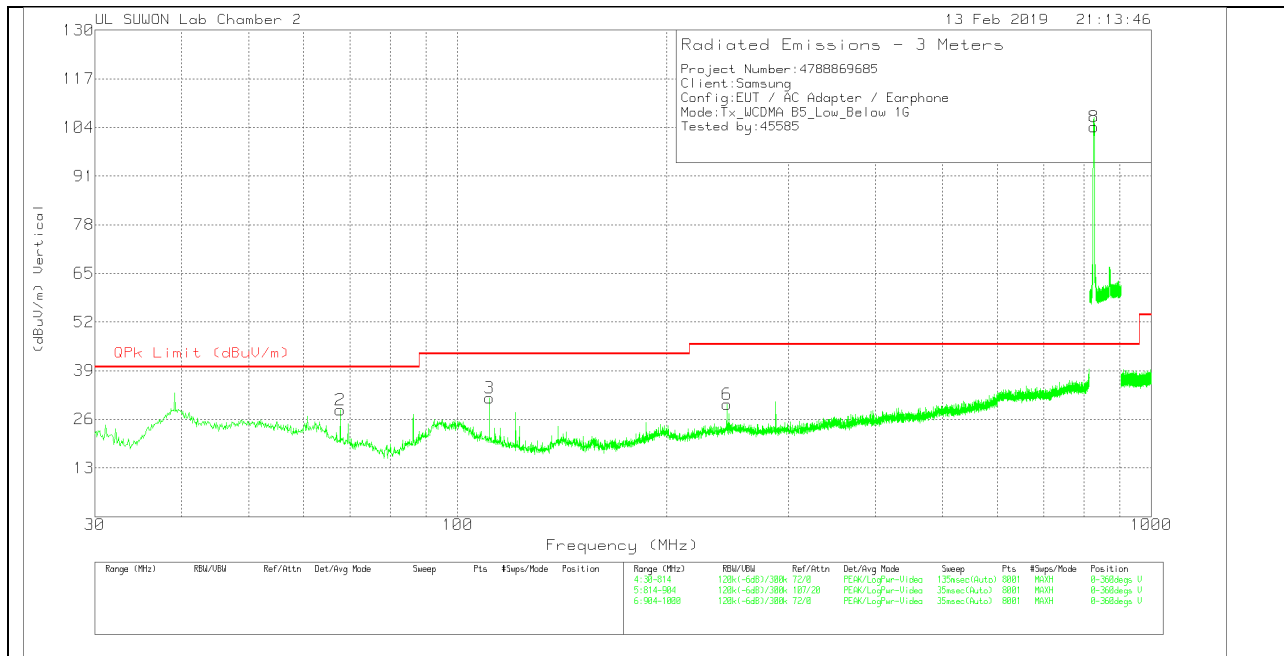
4.7. Below 1 GHz in the WCDMA Band 5

LOW CHANNEL(871.4MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

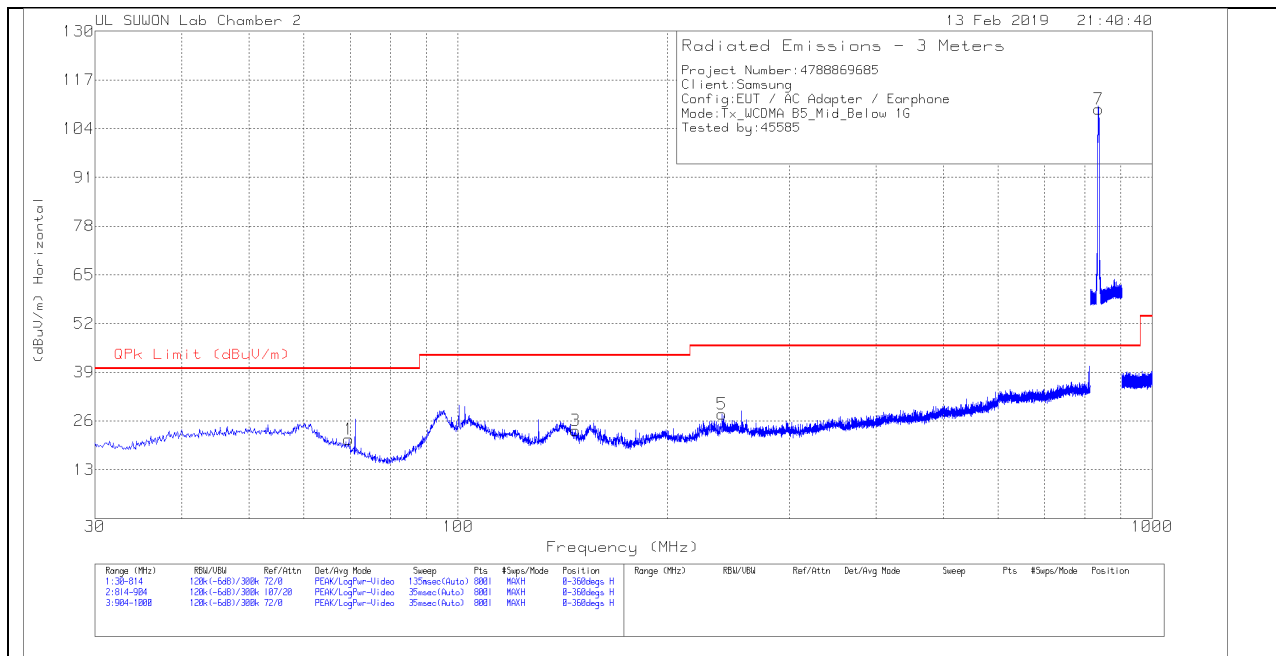
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	67.142	3.07	Pk	16.5	.9	20.47	40	-19.53	0-360	400	H
4	110.948	6.59	Pk	16.9	1.1	24.59	43.52	-18.93	0-360	300	H
5	243.64	5.72	Pk	18.7	1.7	26.12	46.02	-19.9	0-360	100	H
7	826.6675	81.58	Pk	27	3.1	111.68	46.02	65.66	0-360	100	H
2	67.73	11.28	Pk	16.3	.9	28.48	40	-11.52	0-360	100	V
3	111.144	13.76	Pk	16.9	1.1	31.76	43.52	-11.76	0-360	200	V
6	244.424	9.57	Pk	18.8	1.7	30.07	46.02	-15.95	0-360	100	V
8	826.4875	74.11	Pk	27	3.1	104.21	46.02	58.19	0-360	200	V

Pk - Peak detector

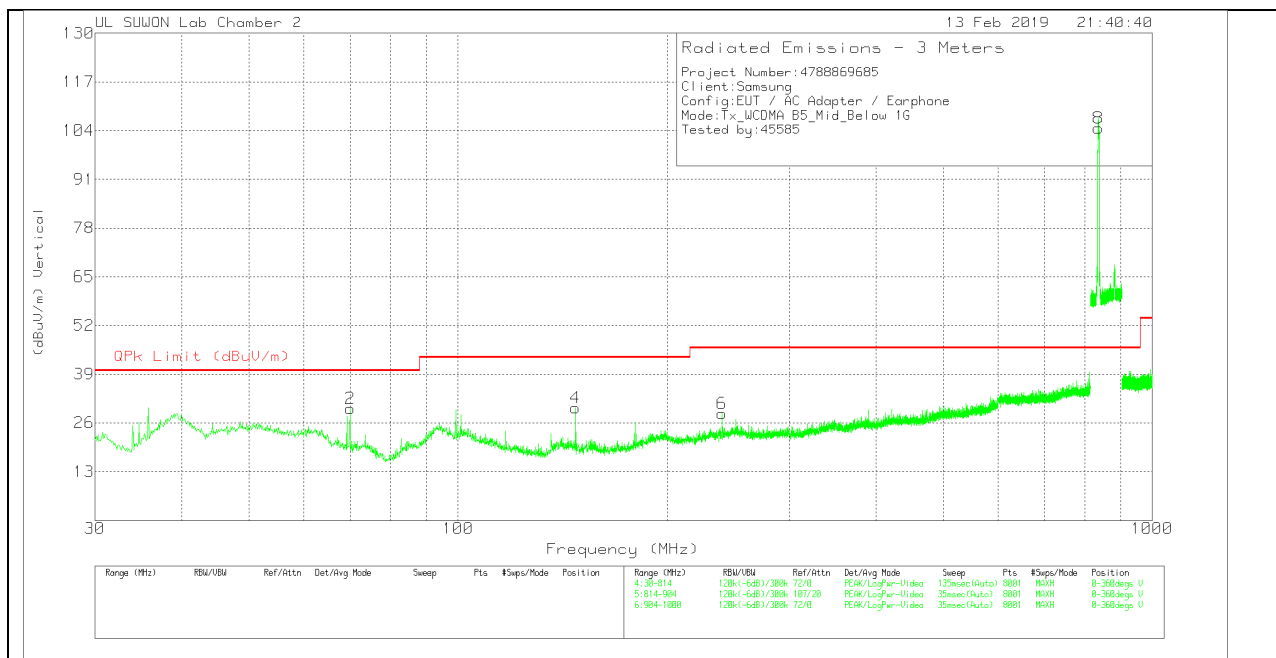
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(881.6MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

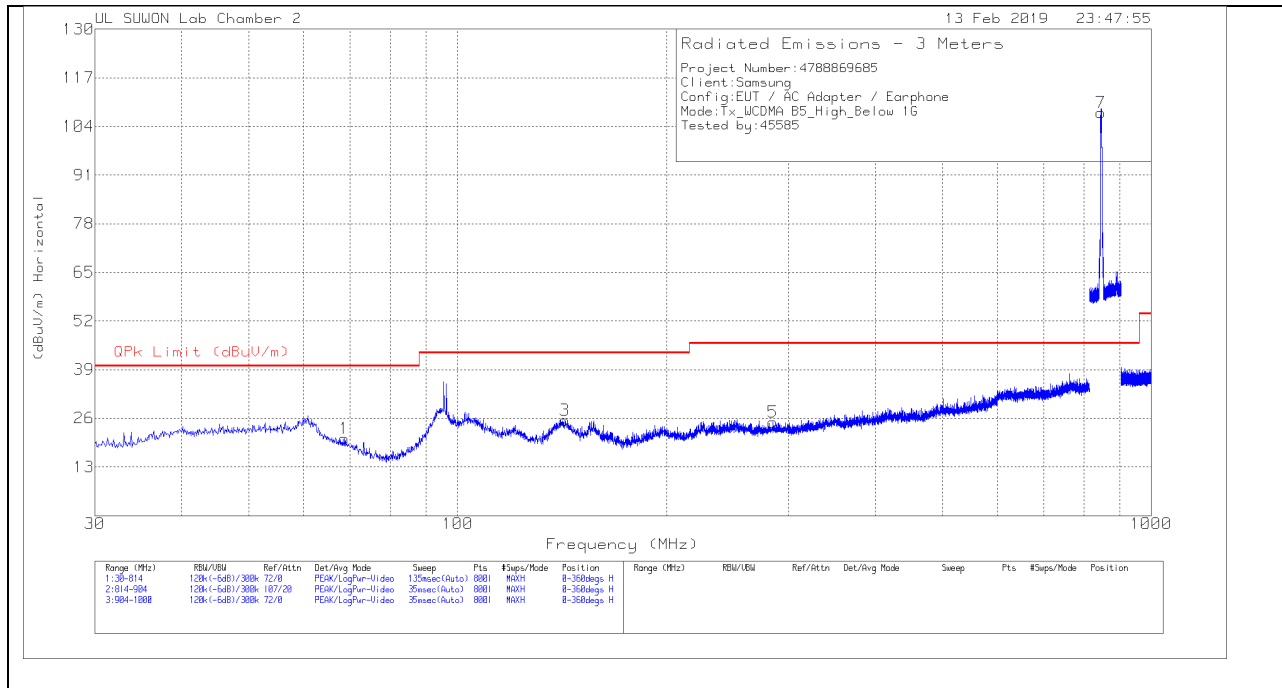
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	69.592	4.64	Pk	15.6	.9	21.14	40	-18.86	0-360	100	H
3	147.502	8.02	Pk	14.1	1.3	23.42	43.52	-20.1	0-360	200	H
5	239.916	7.64	Pk	18.5	1.7	27.84	46.02	-18.18	0-360	100	H
7	836.86	78.85	Pk	27.1	3.2	109.15	46.02	63.13	0-360	100	H
2	69.886	13.46	Pk	15.5	.9	29.86	40	-10.14	0-360	400	V
4	147.698	14.55	Pk	14.1	1.3	29.95	43.52	-13.57	0-360	100	V
6	240.21	8.16	Pk	18.6	1.7	28.46	46.02	-17.56	0-360	100	V
8	836.3763	74.49	Pk	27.1	3.1	104.69	46.02	58.67	0-360	100	V

Pk - Peak detector

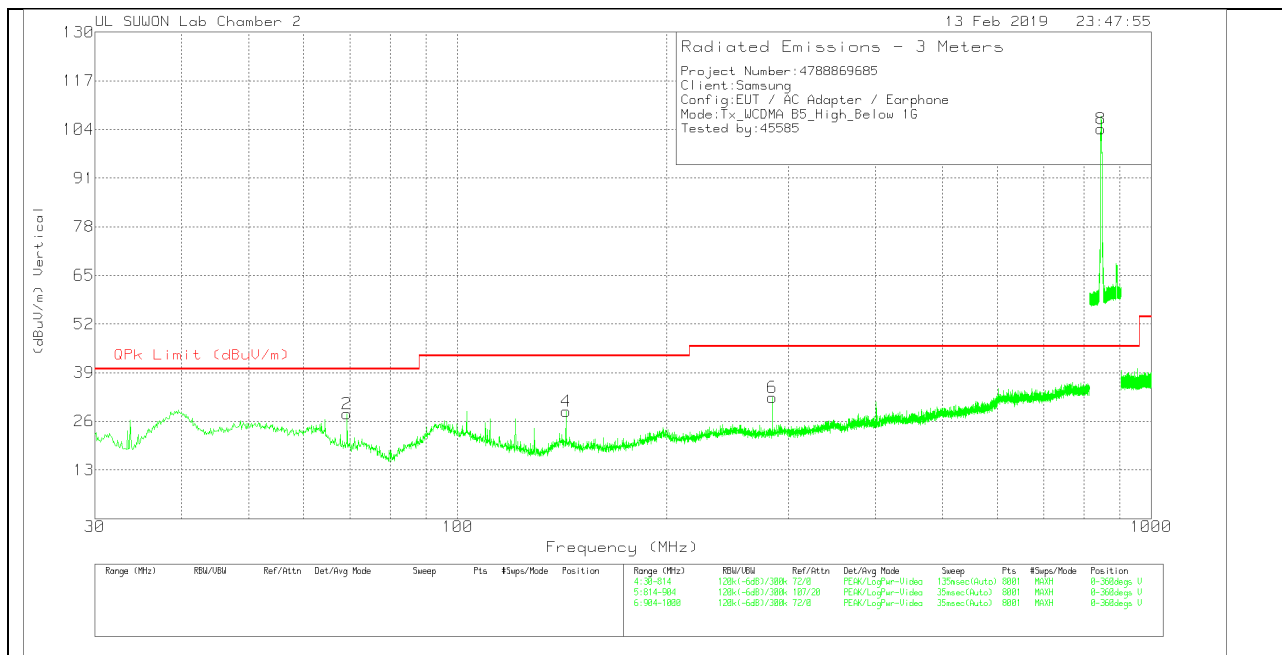
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(891.6MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	68.71	3.63	Pk	16	.9	20.53	40	-19.47	0-360	300	H
3	142.798	10.06	Pk	14.1	1.3	25.46	43.52	-18.06	0-360	200	H
5	284.8	4.15	Pk	19	1.8	24.95	46.02	-21.07	0-360	200	H
7	846.3213	77.33	Pk	27.3	3.1	107.73	46.02	61.71	0-360	100	H
2	69.298	11.27	Pk	15.8	.9	27.97	40	-12.03	0-360	300	V
4	143.288	13.27	Pk	14.1	1.3	28.67	43.52	-14.85	0-360	200	V
6	284.114	11.52	Pk	19	1.8	32.32	46.02	-13.7	0-360	100	V
8	846.3888	73.59	Pk	27.3	3.2	104.09	46.02	58.07	0-360	200	V

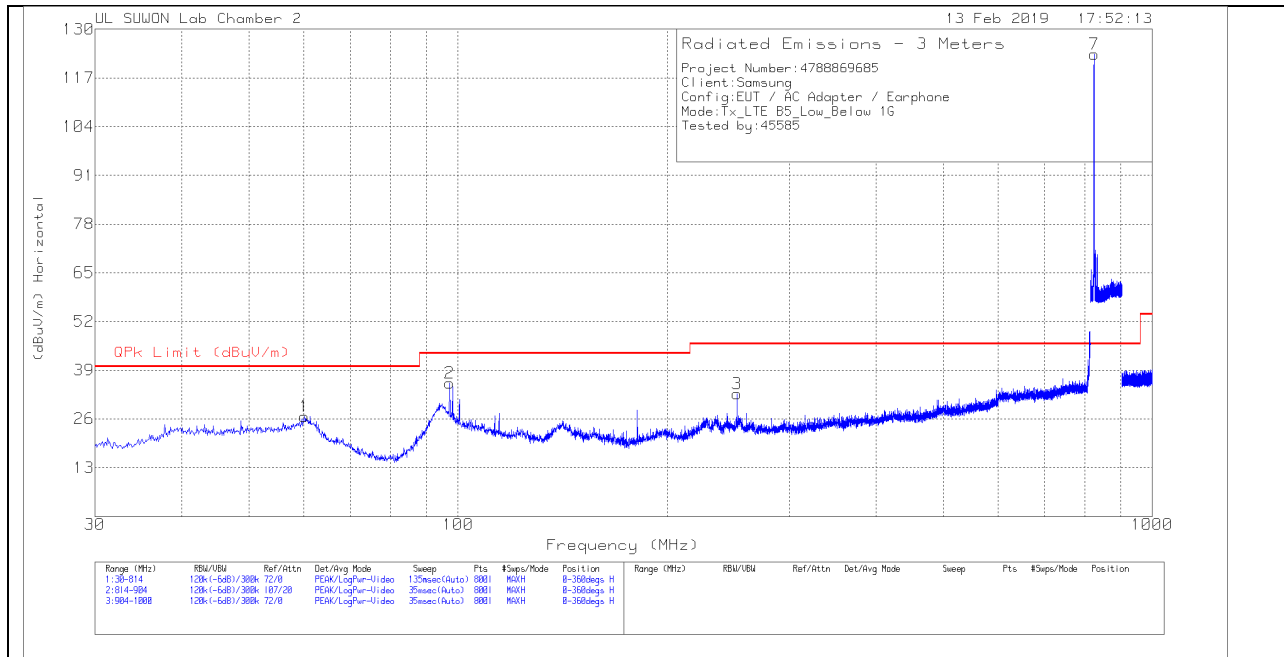
Pk - Peak detector

Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

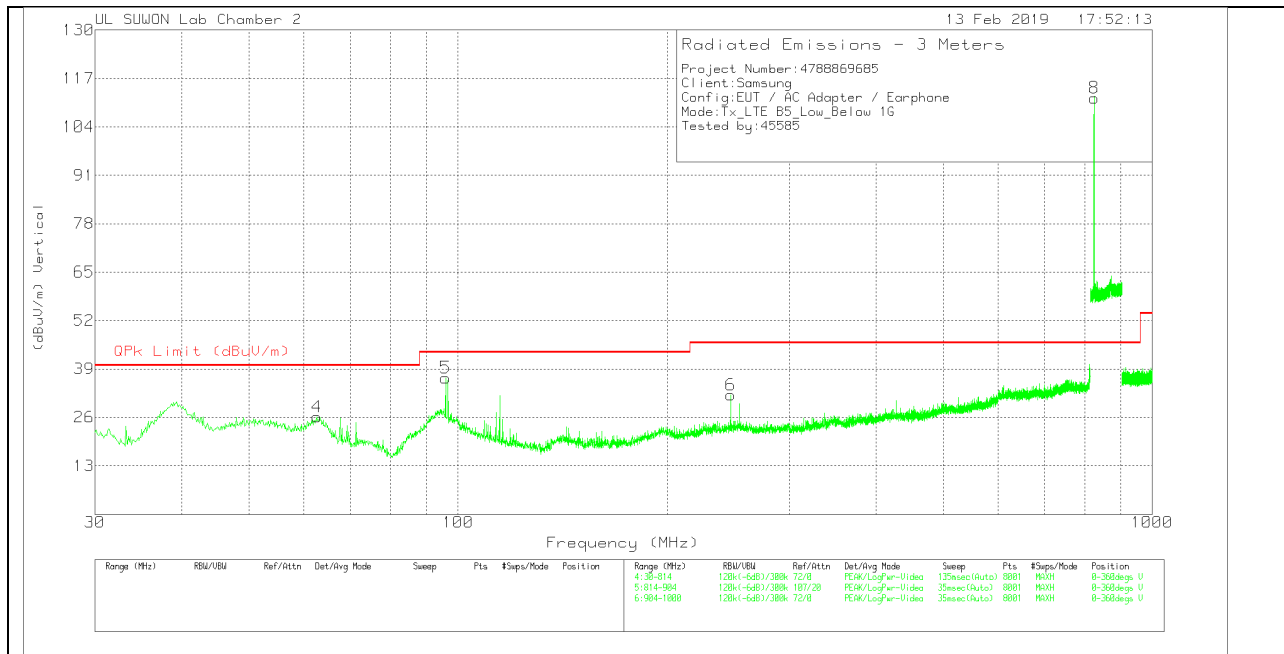
4.8. Below 1 GHz in the LTE Band 5

LOW CHANNEL(870.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

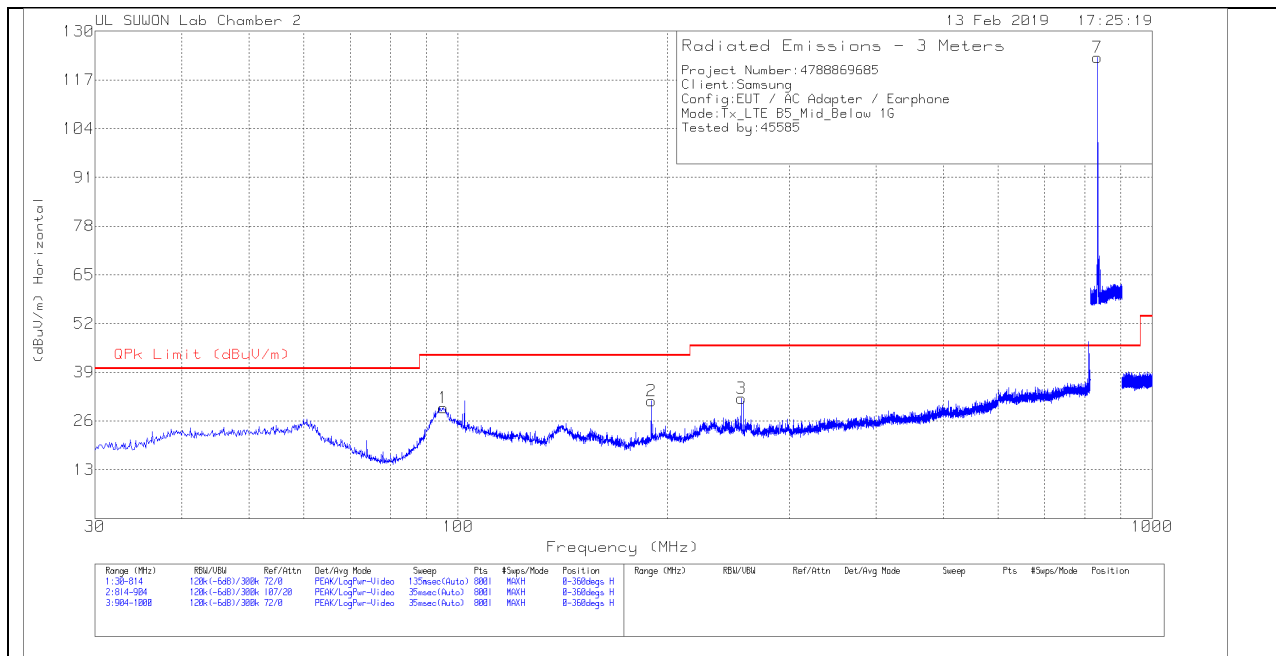
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	60.086	7.3	Pk	18.5	.8	26.6	40	-13.4	0-360	400	H
2	97.326	17.02	Pk	17.5	1.1	35.62	43.52	-7.9	0-360	300	H
3	252.264	11.96	Pk	19.1	1.7	32.76	46.02	-13.26	0-360	100	H
7	824.3163	93.3	Pk	26.9	3.1	123.3	46.02	77.28	0-360	100	H
4	62.634	7.39	Pk	17.9	.9	26.19	40	-13.81	0-360	100	V
5	95.954	18.25	Pk	17.4	1	36.65	43.52	-6.87	0-360	100	V
6	247.168	11.36	Pk	18.9	1.7	31.96	46.02	-14.06	0-360	200	V
8	824.2825	81.8	Pk	26.9	3.1	111.8	46.02	65.78	0-360	200	V

Pk - Peak detector

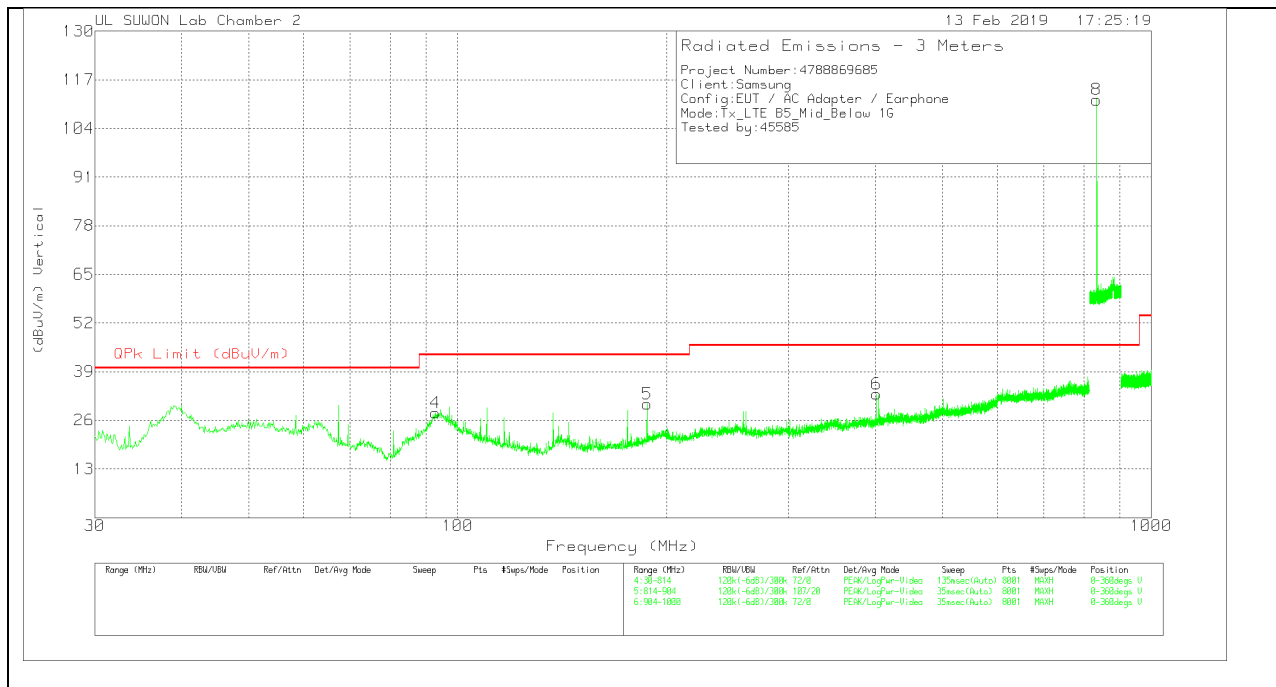
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(881.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

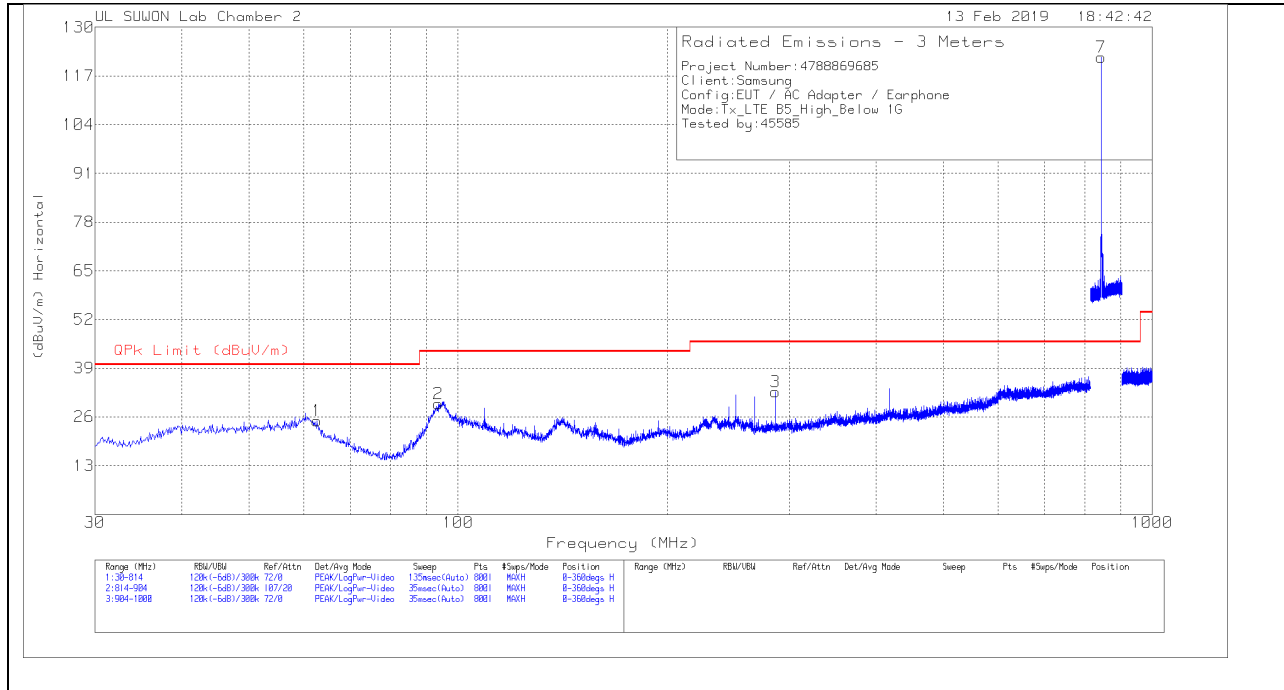
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	95.17	11.26	Pk	17.2	1	29.46	43.52	-14.06	0-360	300	H
2	189.838	12.72	Pk	17.1	1.5	31.32	43.52	-12.2	0-360	100	H
3	256.086	11.19	Pk	19.1	1.7	31.99	46.02	-14.03	0-360	100	H
7	834.3963	92.72	Pk	27.1	3.1	122.92	46.02	76.9	0-360	100	H
4	92.916	10.24	Pk	16.7	1	27.94	43.52	-15.58	0-360	200	V
5	187.486	12.2	Pk	16.7	1.5	30.4	43.52	-13.12	0-360	200	V
6	401.812	9.58	Pk	21.3	2.2	33.08	46.02	-12.94	0-360	100	V
8	834.3513	81.44	Pk	27.1	3.1	111.64	46.02	65.62	0-360	200	V

Pk - Peak detector

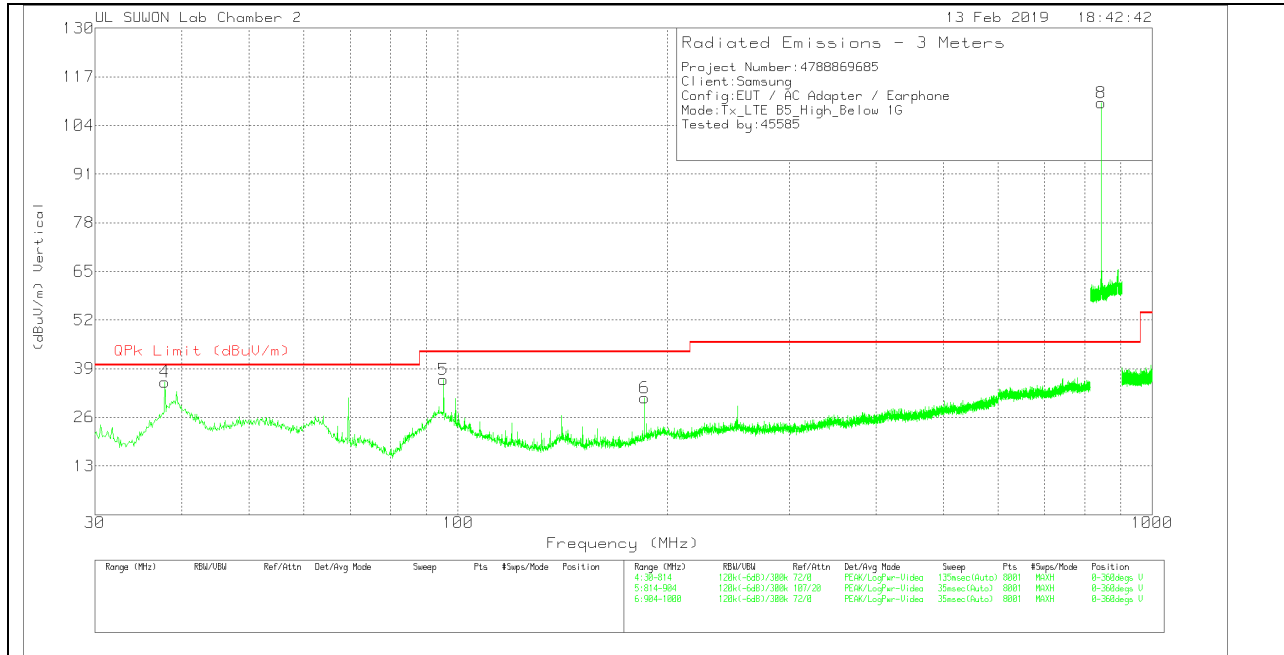
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(892.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	62.634	6.14	Pk	17.9	.9	24.94	40	-15.06	0-360	200	H
2	93.7	11.57	Pk	16.9	1.1	29.57	43.52	-13.95	0-360	300	H
3	286.564	11.78	Pk	19.1	1.8	32.68	46.02	-13.34	0-360	100	H
7	844.4088	91.54	Pk	27.2	3.2	121.94	46.02	75.92	0-360	100	H
4	37.84	16.97	Pk	17.8	.7	35.47	40	-4.53	0-360	100	V
5	95.268	17.69	Pk	17.2	1.1	35.99	43.52	-7.53	0-360	100	V
6	185.722	13.34	Pk	16.5	1.4	31.24	43.52	-12.28	0-360	200	V
8	844.285	79.58	Pk	27.2	3.2	109.98	46.02	63.96	0-360	200	V

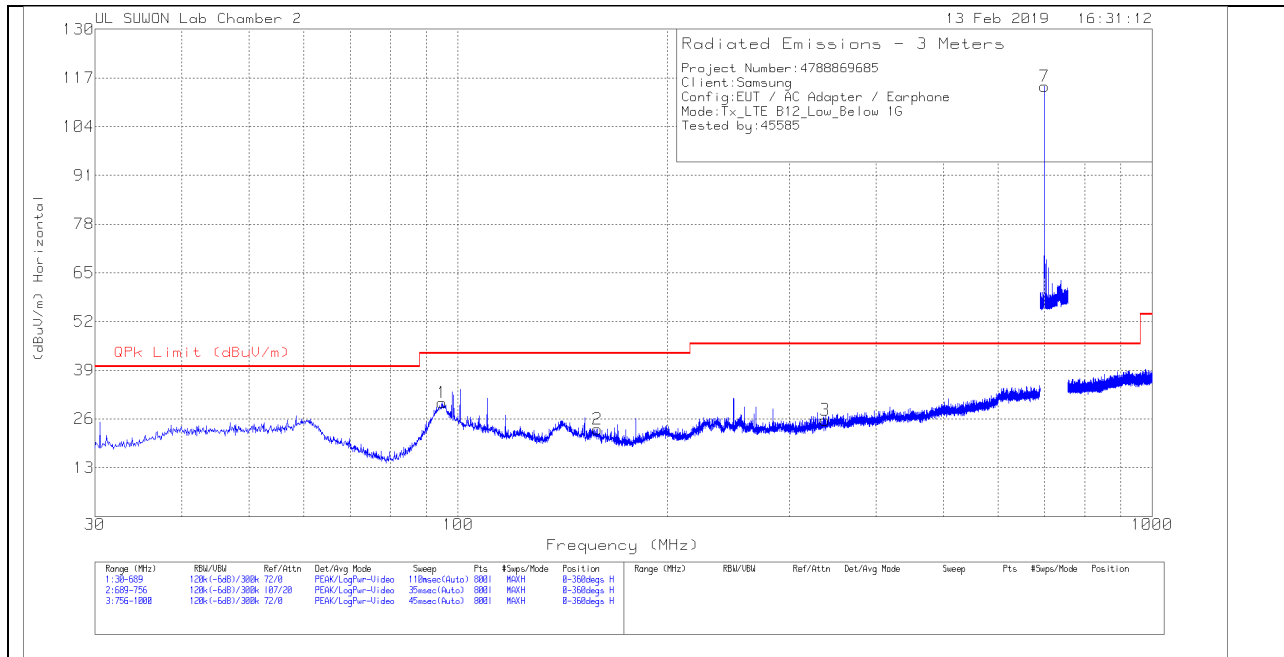
Pk - Peak detector

Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

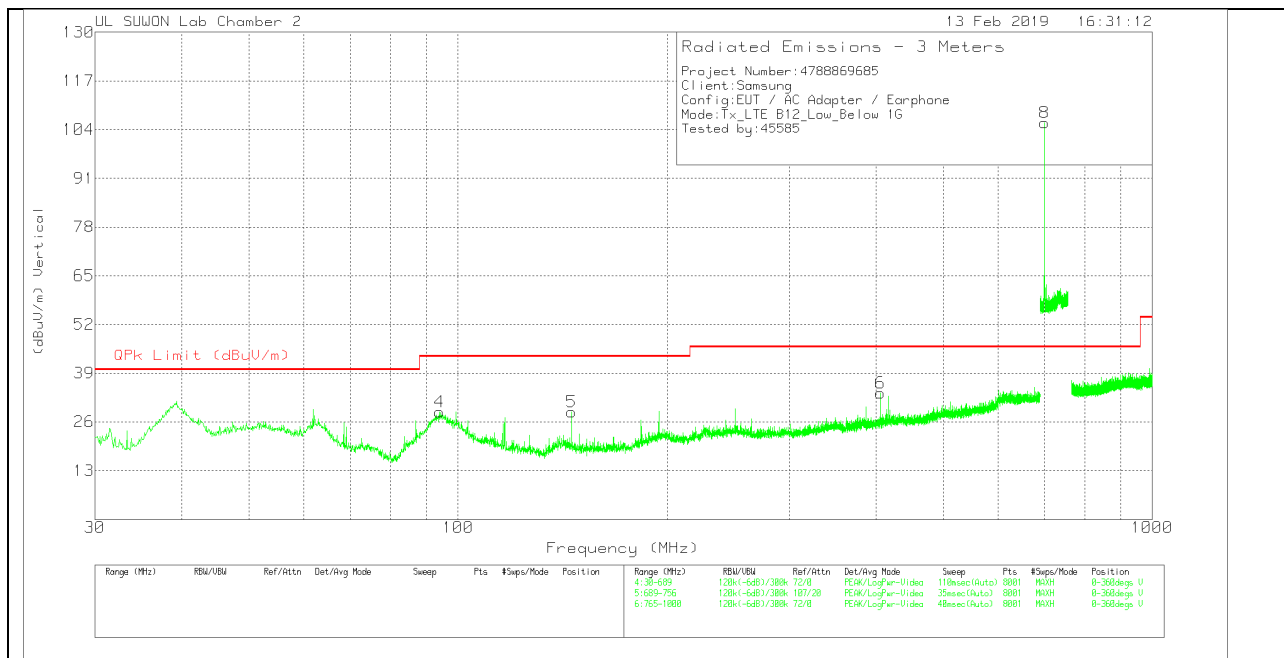
4.9. Below 1 GHz in the LTE Band 12

LOW CHANNEL(730.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

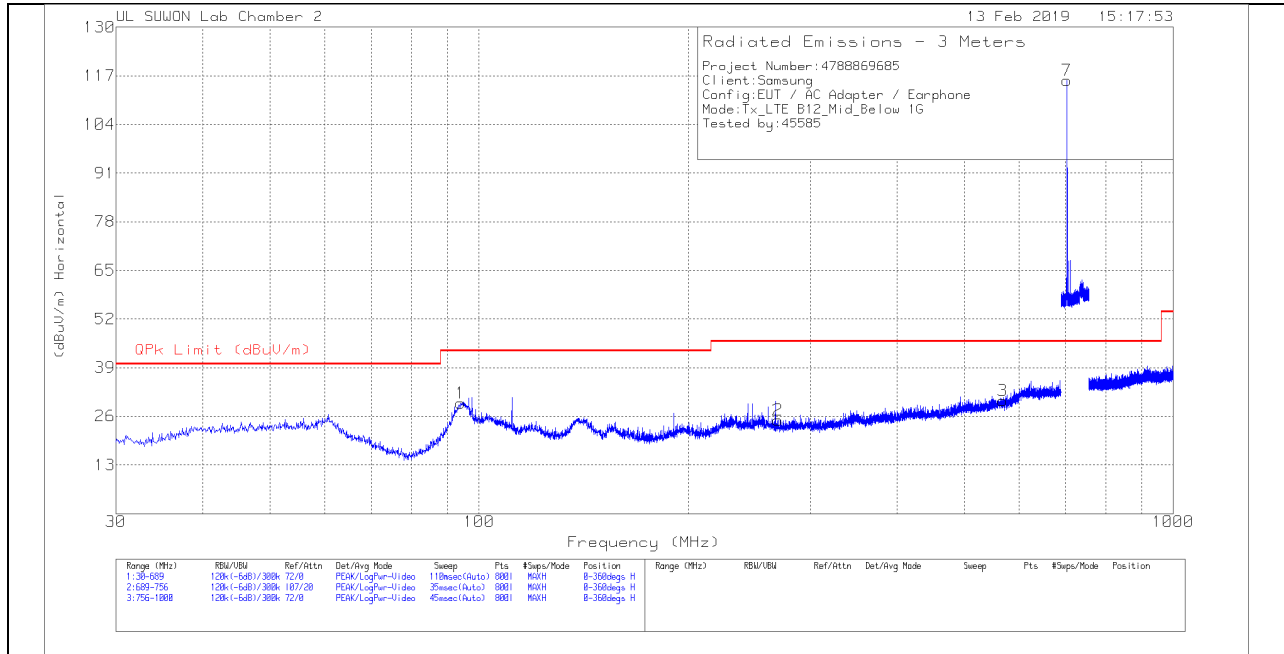
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	94.9115	12.1	Pk	17.2	1	30.3	43.52	-13.22	0-360	300	H
2	158.7521	7.52	Pk	14.5	1.3	23.32	43.52	-20.2	0-360	200	H
3	337.6706	3.22	Pk	20.5	2	25.72	46.02	-20.3	0-360	100	H
7	699.5776	86.22	Pk	25.6	2.9	114.72	46.02	68.7	0-360	100	H
4	94.0054	10.82	Pk	16.9	1	28.72	43.52	-14.8	0-360	100	V
5	145.8193	13.19	Pk	14.1	1.3	28.59	43.52	-14.93	0-360	100	V
6	405.8771	9.97	Pk	21.5	2.2	33.67	46.02	-12.35	0-360	100	V
8	699.586	77.33	Pk	25.6	2.9	105.83	46.02	59.81	0-360	200	V

Pk - Peak detector

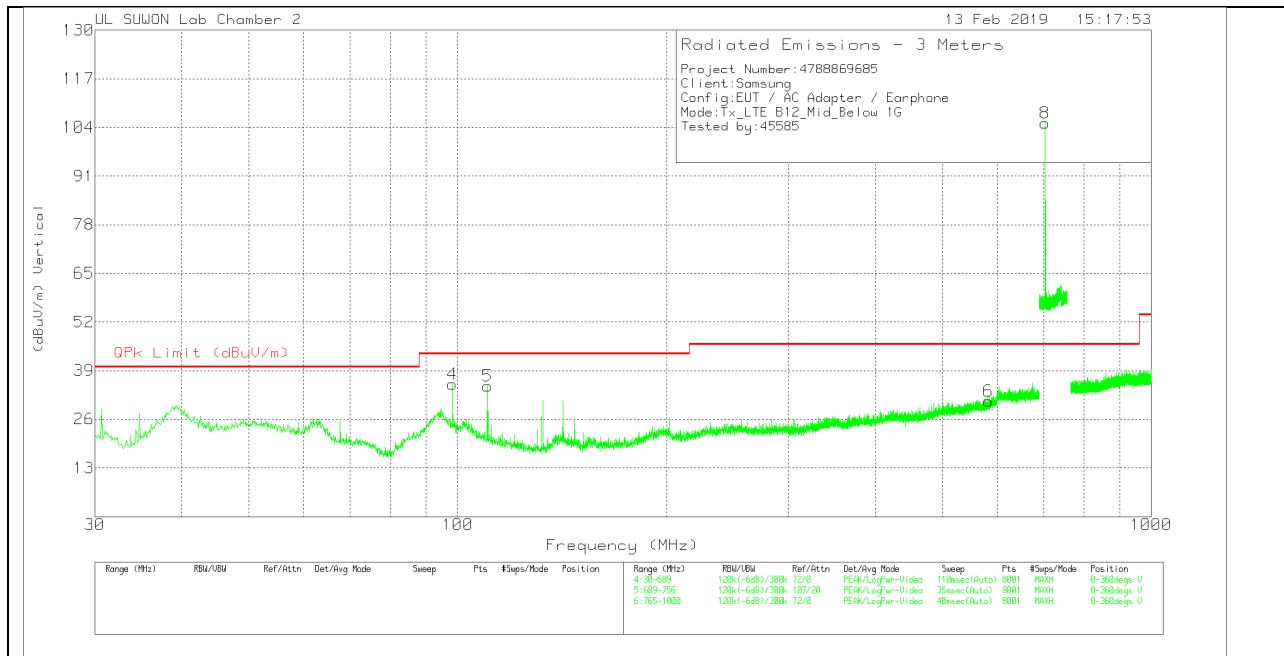
Note: Unwanted emissions captured from 699MHz to 716MHz and from 729MHz to 746MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(737.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

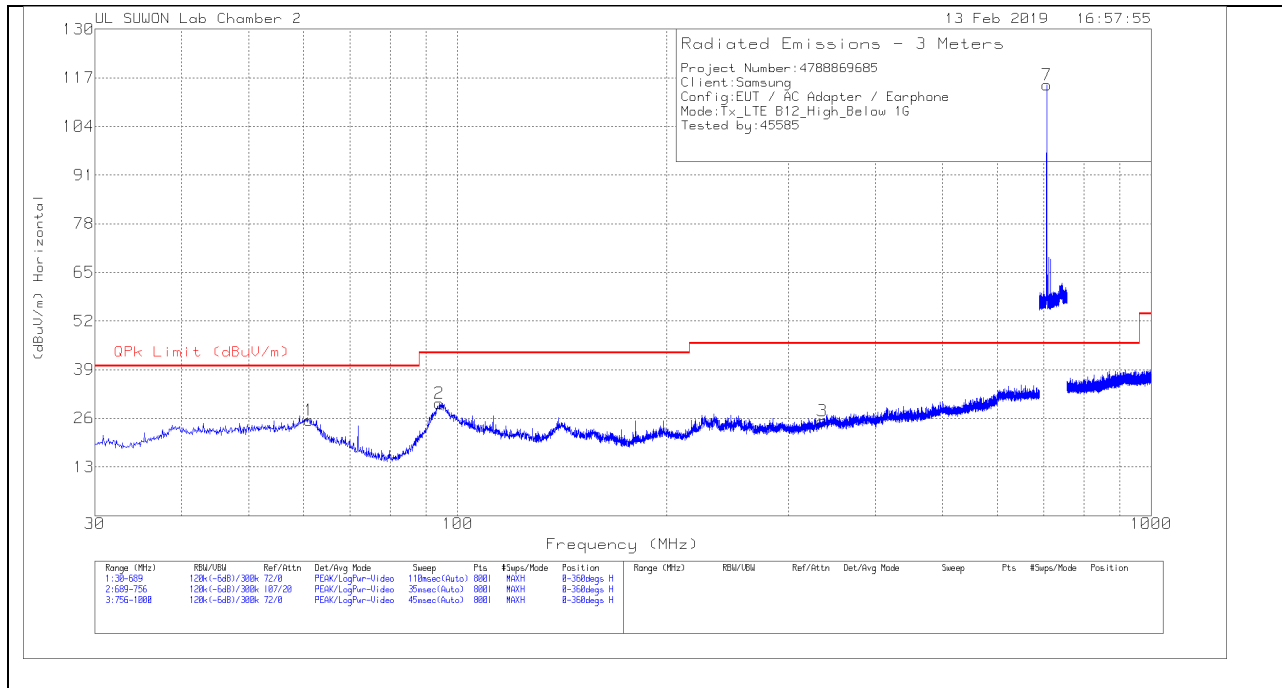
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	94.0878	11.51	Pk	17	1	29.51	43.52	-14.01	0-360	300	H
2	269.4641	4.5	Pk	18.6	1.8	24.9	46.02	-21.12	0-360	400	H
3	568.0735	3.5	Pk	24.1	2.6	30.2	46.02	-15.82	0-360	300	H
7	703.1454	87.28	Pk	25.5	2.9	115.68	46.02	69.66	0-360	100	H
4	98.2889	16.85	Pk	17.6	1	35.45	43.52	-8.07	0-360	100	V
5	110.398	16.71	Pk	17	1.2	34.91	43.52	-8.61	0-360	100	V
6	582.0773	3.83	Pk	24.4	2.6	30.83	46.02	-15.19	0-360	100	V
8	703.0951	76.72	Pk	25.5	2.9	105.12	46.02	59.1	0-360	200	V

Pk - Peak detector

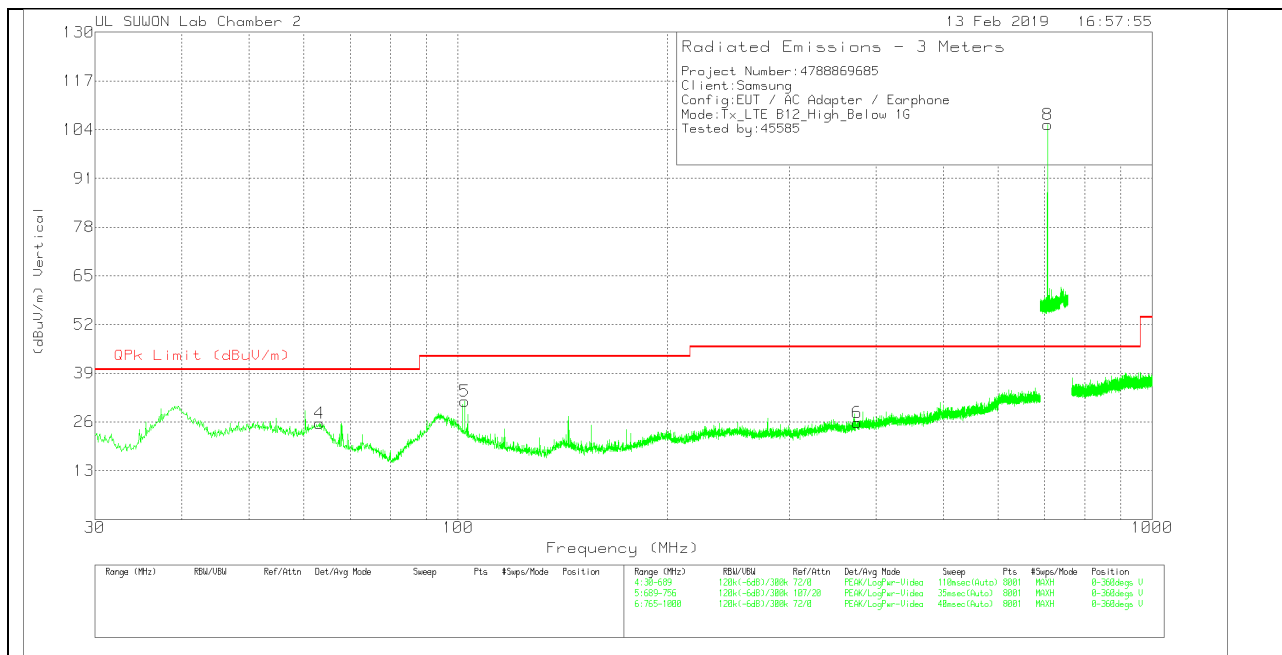
Note: Unwanted emissions captured from 699MHz to 716MHz and from 729MHz to 746MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(744.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	61.0554	6.35	Pk	18.3	.8	25.45	40	-14.55	0-360	400	H
2	94.0878	12.07	Pk	17	1	30.07	43.52	-13.45	0-360	300	H
3	335.4465	2.85	Pk	20.4	2	25.25	46.02	-20.77	0-360	100	H
7	706.5959	86.72	Pk	25.5	2.9	115.12	46.02	69.1	0-360	100	H
4	63.1971	6.92	Pk	17.8	.9	25.62	40	-14.38	0-360	100	V
5	102.2429	12.64	Pk	17.8	1.1	31.54	43.52	-11.98	0-360	100	V
6	376.1398	2.67	Pk	21	2.1	25.77	46.02	-20.25	0-360	300	V
8	706.5373	76.95	Pk	25.5	2.9	105.35	46.02	59.33	0-360	200	V

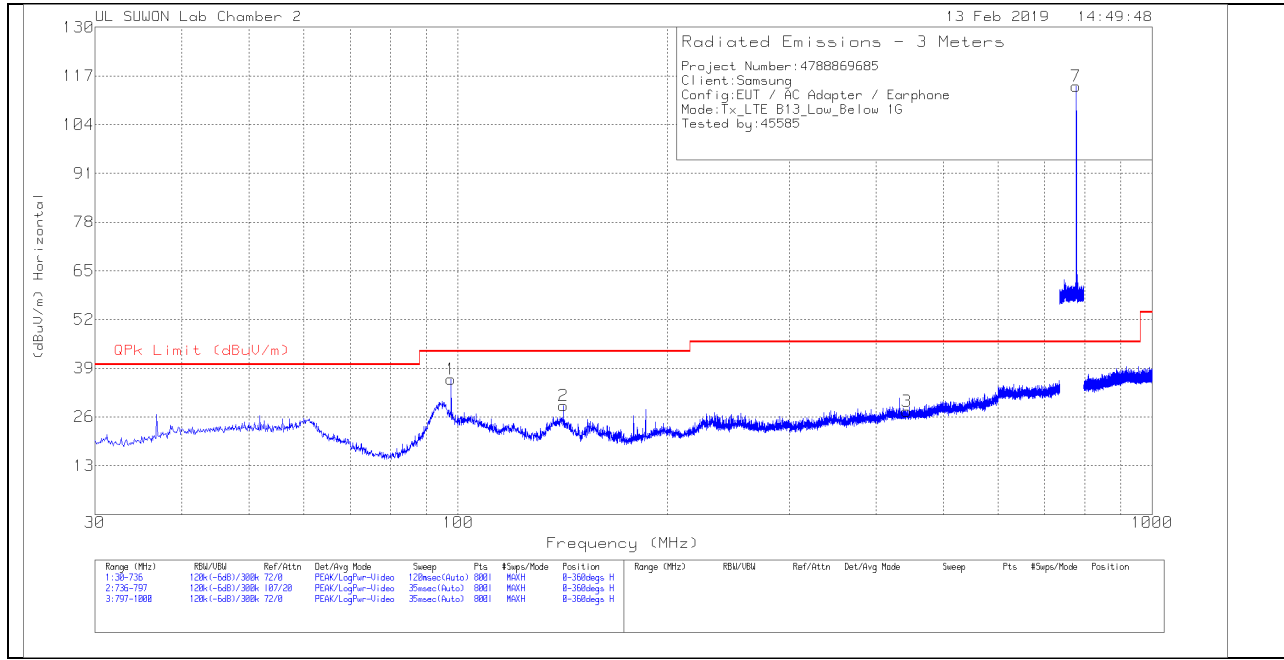
Pk - Peak detector

Note: Unwanted emissions captured from 699MHz to 716MHz and from 729MHz to 746MHz were the TX and RX signals generated from the call-simulator.

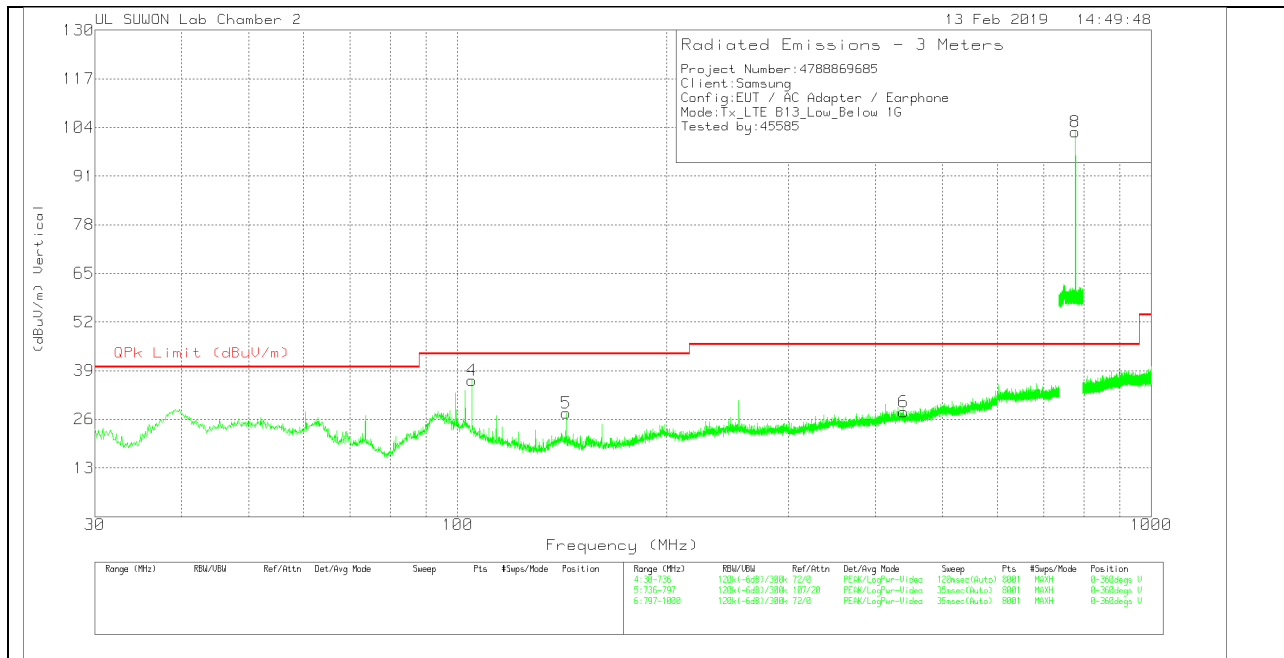
4.10. Below 1 GHz in the LTE Band 13

LOW CHANNEL(748.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

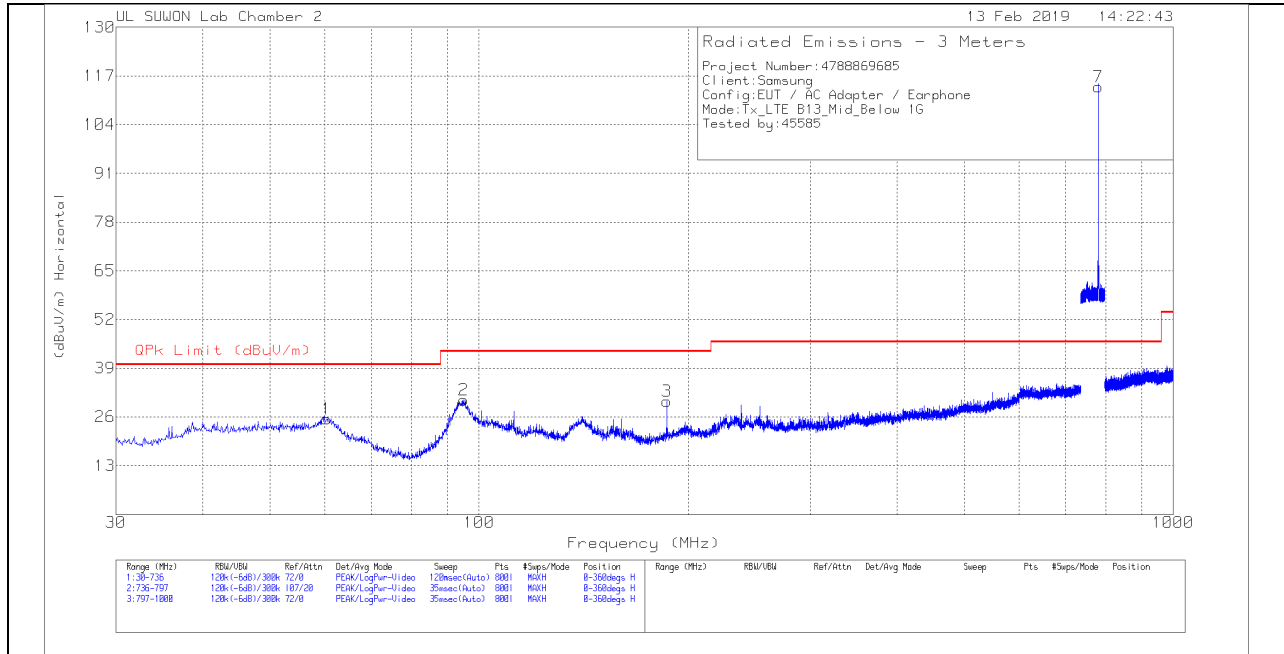
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	97.6878	17.49	Pk	17.5	1.1	36.09	43.52	-7.43	0-360	400	H
2	141.901	13.64	Pk	14.1	1.3	29.04	43.52	-14.48	0-360	400	H
3	442.7453	3.15	Pk	22	2.3	27.45	46.02	-18.57	0-360	400	H
7	777.3046	84.53	Pk	26.7	3	114.23	46.02	68.21	0-360	100	H
4	104.836	17.74	Pk	17.6	1.1	36.44	43.52	-7.08	0-360	200	V
5	143.4013	12.27	Pk	14.1	1.3	27.67	43.52	-15.85	0-360	200	V
6	439.6565	3.67	Pk	22	2.3	27.97	46.02	-18.05	0-360	400	V
8	777.4114	73.15	Pk	26.7	3	102.85	46.02	56.83	0-360	200	V

Pk - Peak detector

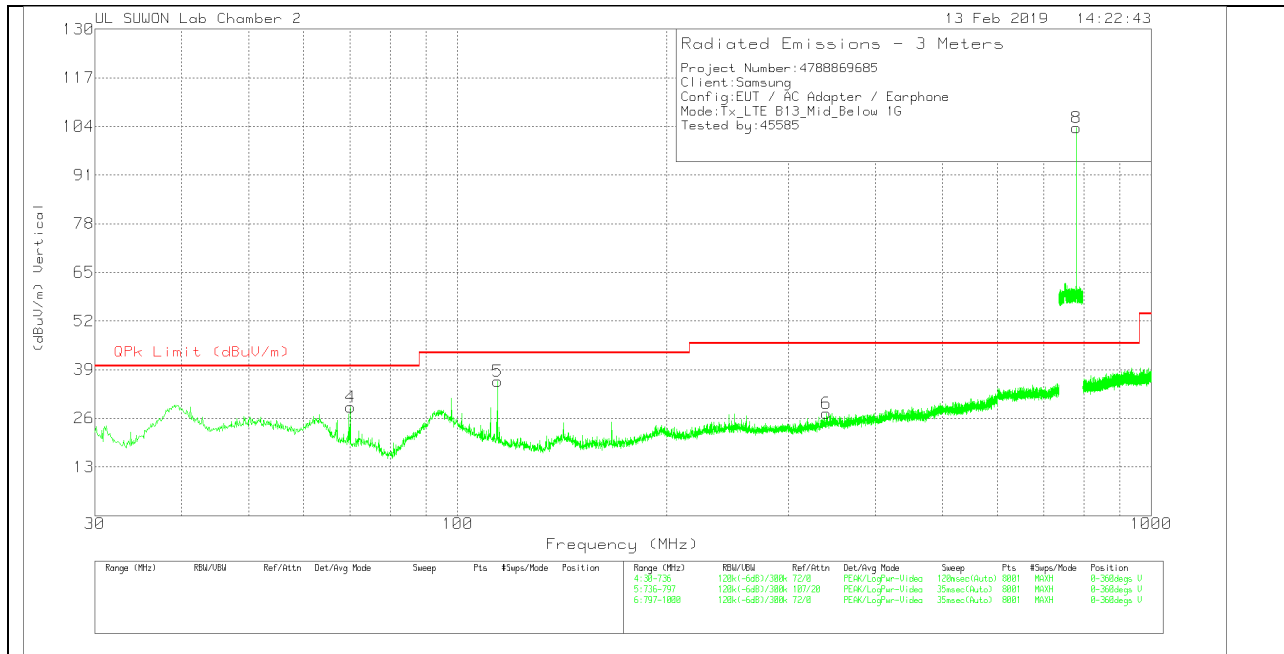
Note: Unwanted emissions captured from 777MHz to 787MHz and from 746MHz to 756MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(751.0MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

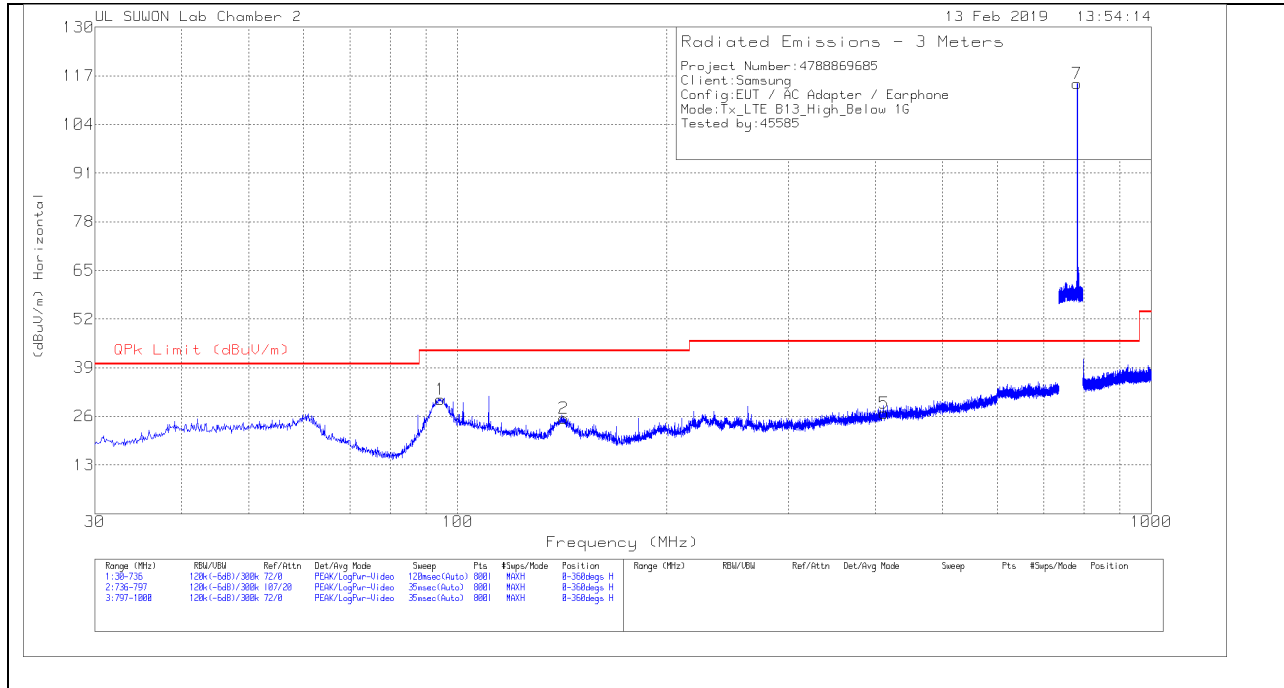
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	60.358	6.34	Pk	18.4	.8	25.54	40	-14.46	0-360	400	H
2	95.0403	12.39	Pk	17.2	1	30.59	43.52	-12.93	0-360	300	H
3	186.379	12.04	Pk	16.6	1.5	30.14	43.52	-13.38	0-360	100	H
7	779.9048	84.43	Pk	26.7	3	114.13	46.02	68.11	0-360	100	H
4	70.0655	12.64	Pk	15.5	.9	29.04	40	-10.96	0-360	200	V
5	114.1023	18.45	Pk	16.4	1.1	35.95	43.52	-7.57	0-360	100	V
6	339.7575	4.68	Pk	20.6	2	27.28	46.02	-18.74	0-360	400	V
8	779.8819	73.98	Pk	26.7	3	103.68	46.02	57.66	0-360	100	V

Pk - Peak detector

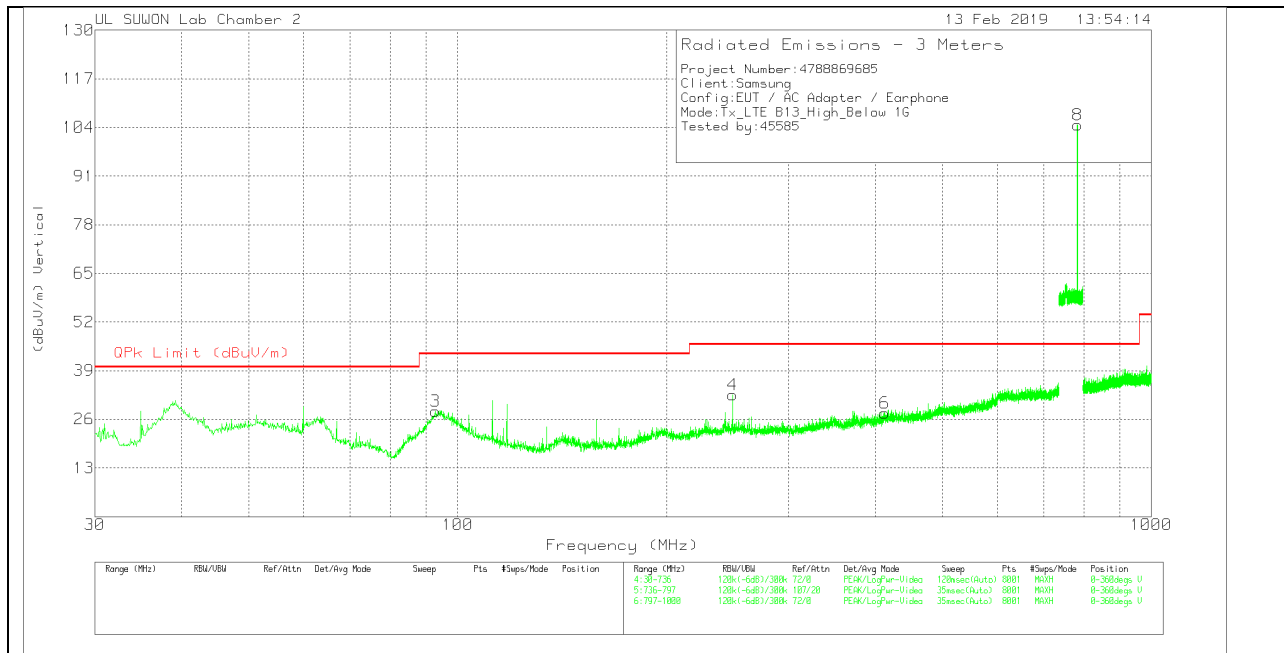
Note: Unwanted emissions captured from 777MHz to 787MHz and from 746MHz to 756MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(753.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	94.5108	12.35	Pk	17.1	1	30.45	43.52	-13.07	0-360	200	H
2	142.254	10.02	Pk	14.1	1.3	25.42	43.52	-18.1	0-360	200	H
5	411.8578	2.84	Pk	21.8	2.2	26.84	46.02	-19.18	0-360	300	H
7	782.2914	85.22	Pk	26.7	3	114.92	46.02	68.9	0-360	100	H
3	92.9223	10.41	Pk	16.7	1	28.11	43.52	-15.41	0-360	100	V
4	249.0365	11.91	Pk	19	1.7	32.61	46.02	-13.41	0-360	100	V
6	412.8285	3.6	Pk	21.8	2.2	27.6	46.02	-18.42	0-360	400	V
8	782.3981	74.9	Pk	26.7	3	104.6	46.02	58.58	0-360	200	V

Pk - Peak detector

Note: Unwanted emissions captured from 777MHz to 787MHz and from 746MHz to 756MHz were the TX and RX signals generated from the call-simulator.