

## 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 CDMA/GSM/WCDMA/LTE Phone + BT/BLE, DTS/UNII a/b/g/n/ac, ANT+ and NFC. This test report addresses the WWAN receiver mode.  
(CDMA BC0/GSM850/WCDMA B5/LTE B5/LTE B12)

#### 2.2. TEST MODE

Mode	Description
CDMA BC0	Communicating with Call simulator(CMW500)
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)

## 2.3. DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Charger	SAMSUNG	EP-TA800	R37M1E50KV1SE3	N/A
Data Cable	SAMSUNG	EP-DA905BBE	N/A	N/A
Earphone	SAMSUNG	GHSS028-W4	N/A	N/A

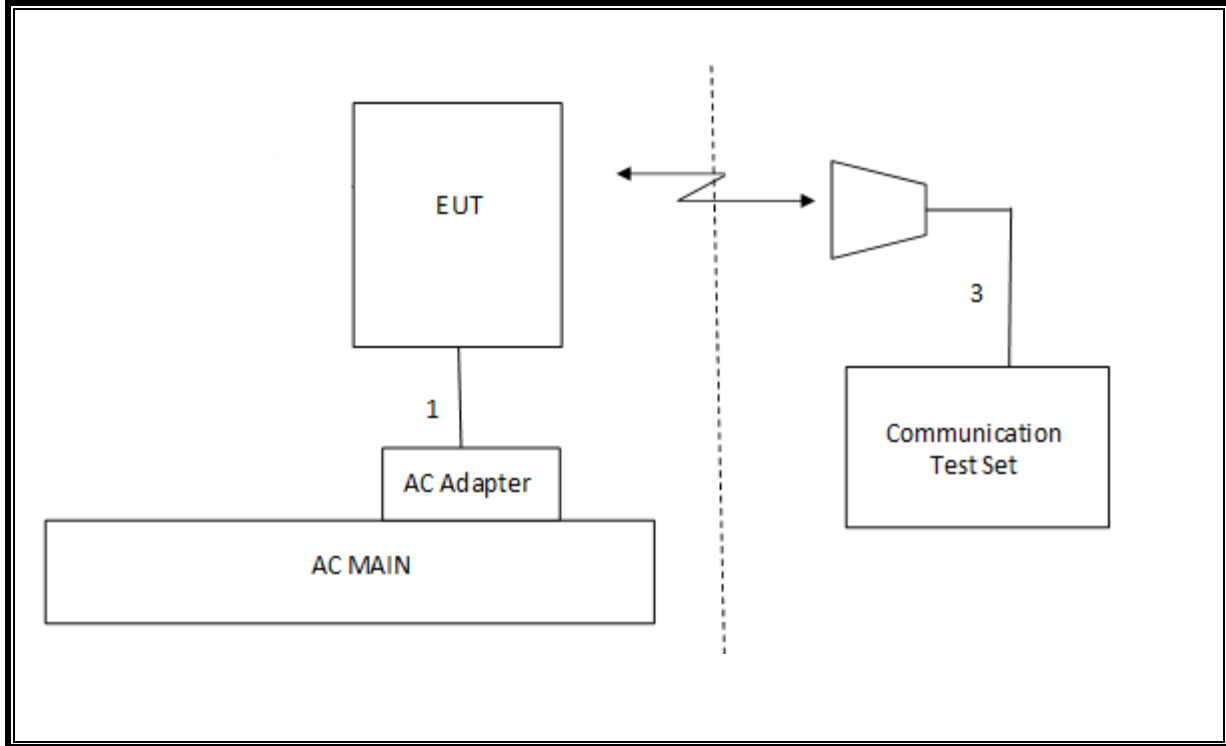
### I/O CABLE

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	C Type	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	08-14-20
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
Communications Test Set	R&S	CMW500	115331	08-07-19
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
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

## 4. APPLICABLE LIMITS AND TEST RESULTS

### TEST PROCEDURE

ANSI C63.4: 2014

### LIMIT

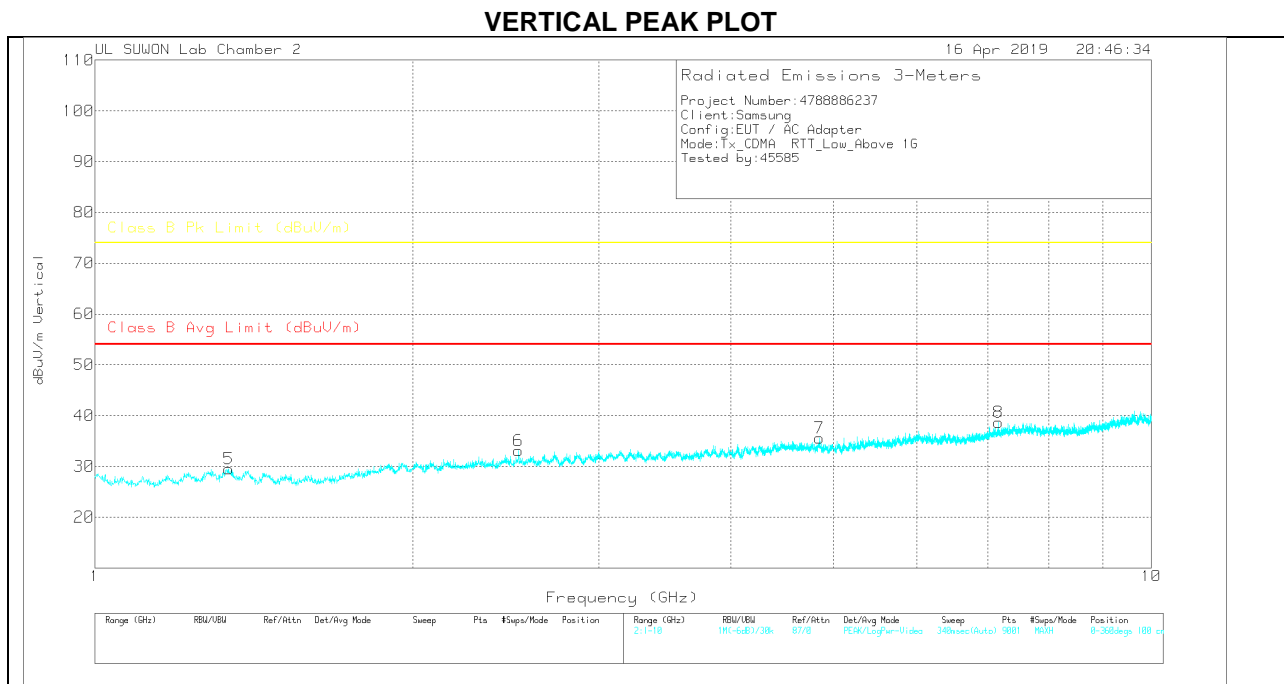
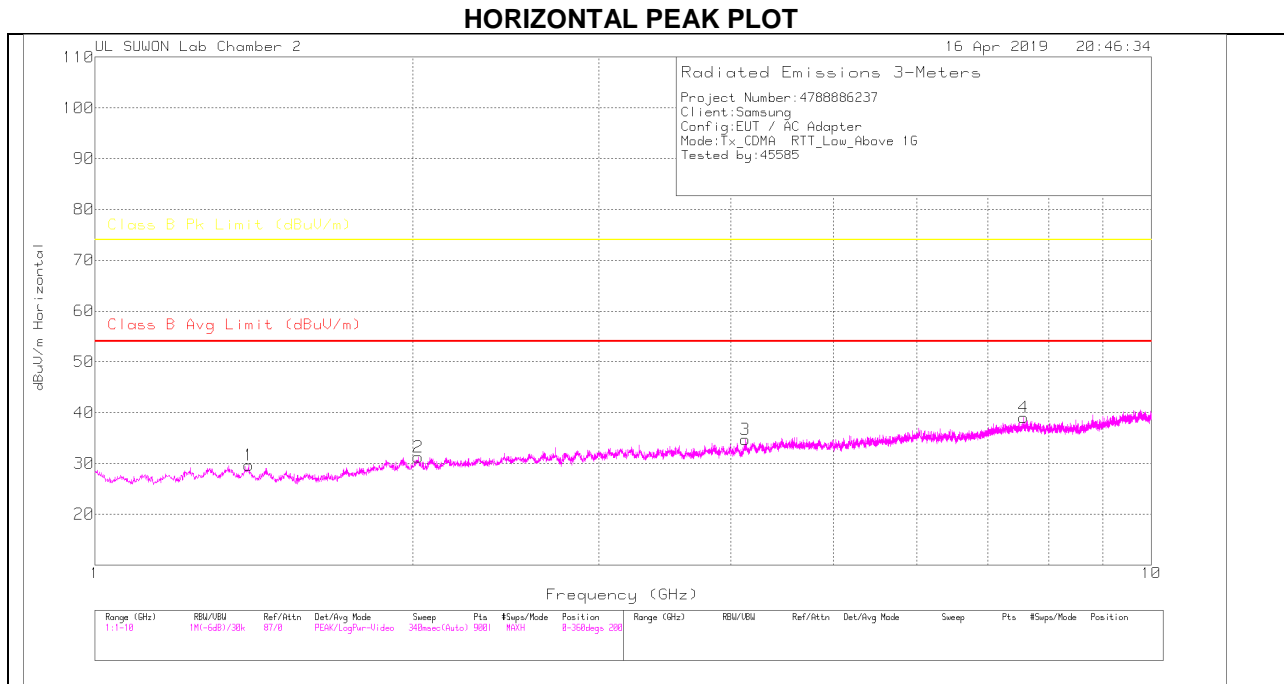
§15.109 (a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Limits for radiated disturbance of Class B ITE at measuring distance of 3 m	
Frequency range (MHz)	Quasi-peak limits (dB $\mu$ 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 CDMA BC0

#### LOW CHANNEL(869.7MHz)



**DATA**

Trace Markers

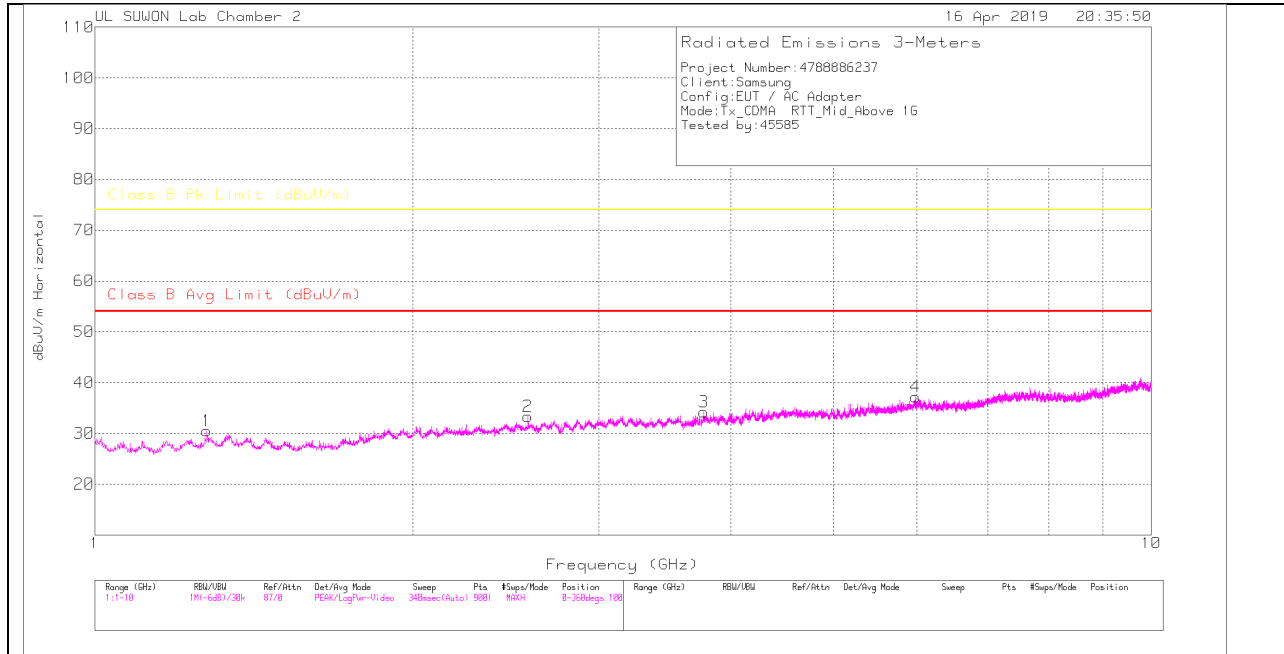
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSFR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.398	31.34	PK	29.4	-31.7	.6	29.64	-	-	74	-44.36	0-360	100	H
2	2.023	30.39	PK	31.2	-31	.6	31.19	-	-	74	-42.81	0-360	100	H
3	4.128	29.27	PK	33.4	-28.4	.4	34.67	-	-	74	-39.33	0-360	100	H
4	7.572	27.5	PK	36.1	-25.2	.6	39	-	-	74	-35	0-360	100	H
5	1.338	30.91	PK	29.7	-31.8	.7	29.51	-	-	74	-44.49	0-360	100	V
6	2.518	30.65	PK	31.9	-30.1	.6	33.05	-	-	74	-40.95	0-360	100	V
7	4.851	29.21	PK	34	-28	.4	35.61	-	-	74	-38.39	0-360	100	V
8	7.167	27.62	PK	36.1	-25.6	.5	38.62	-	-	74	-35.38	0-360	200	V

PK – Peak Detector

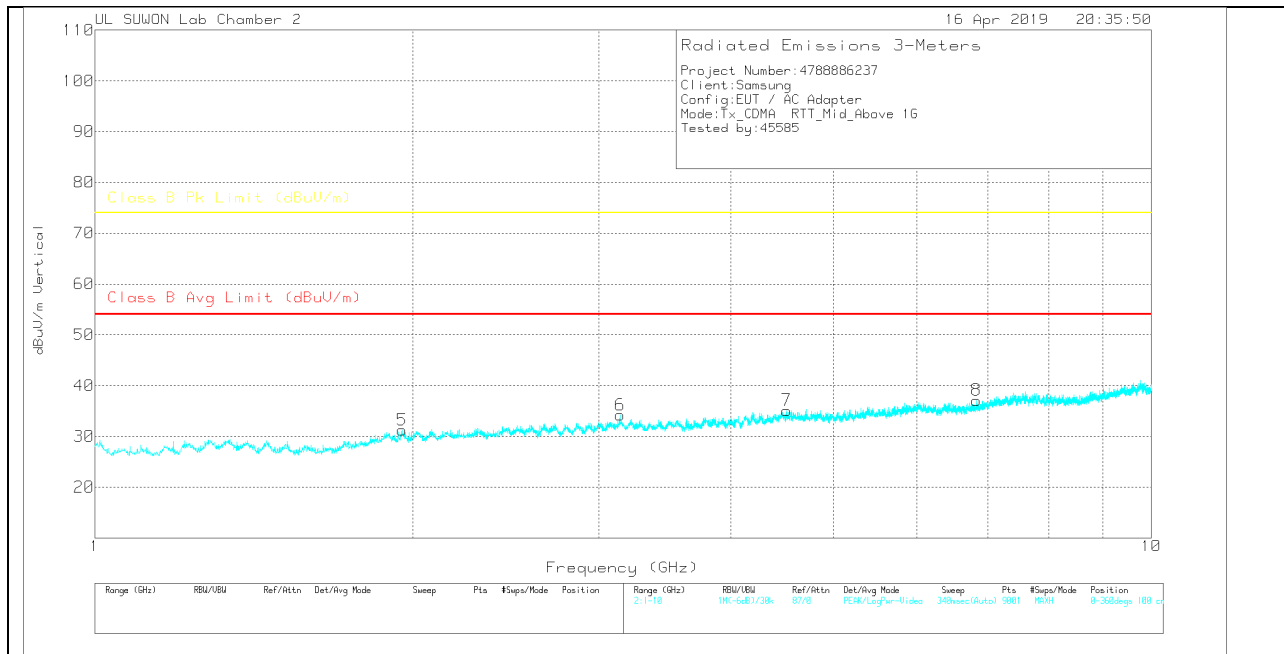
Note: Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

**MID CHANNEL(881.52MHz)**

**HORIZONTAL PEAK PLOT**



**VERTICAL PEAK PLOT**





**DATA**

Trace Markers

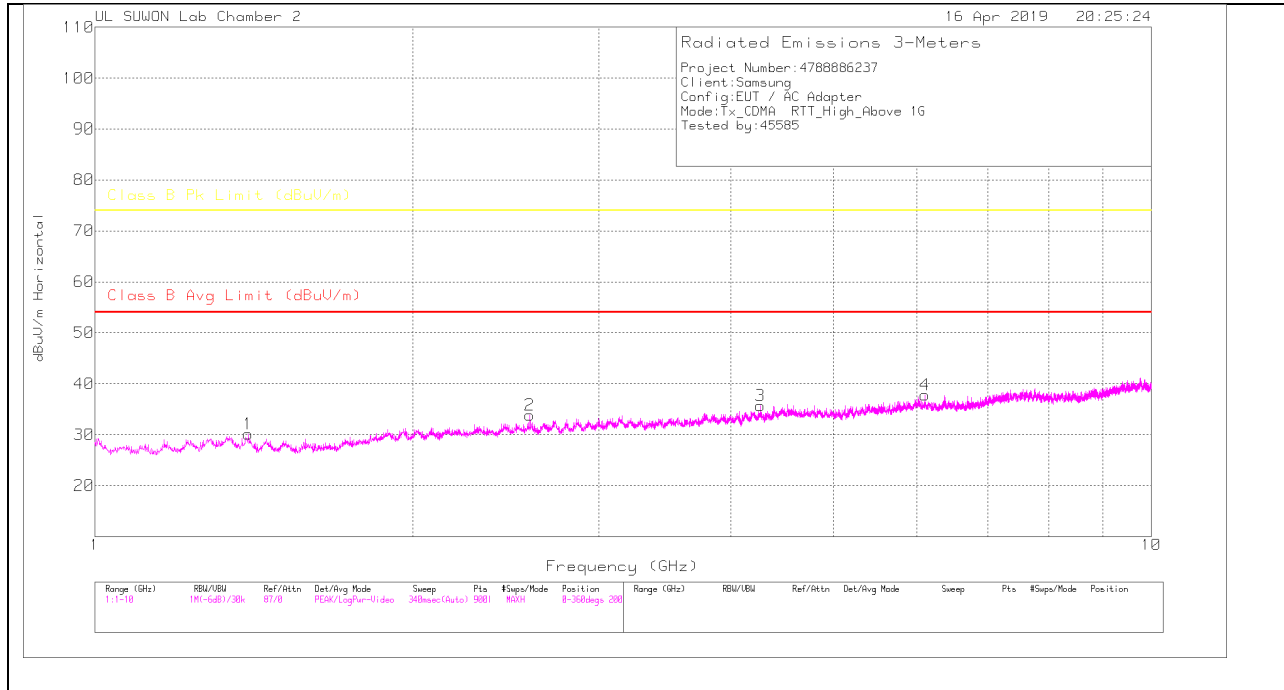
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSPK)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.276	32.19	PK	29.5	-31.9	.7	30.49	-	-	74	-43.51	0-360	200	H
2	2.57	30.98	PK	32	-30.3	.7	33.38	-	-	74	-40.62	0-360	200	H
3	3.771	29.73	PK	33.2	-29.2	.5	34.23	-	-	74	-39.77	0-360	100	H
4	5.979	29.23	PK	35	-27.5	.4	37.13	-	-	74	-36.87	0-360	100	H
5	1.953	30.64	PK	31.1	-31	.5	31.24	-	-	74	-42.76	0-360	100	V
6	3.141	30.35	PK	32.9	-29.7	.7	34.25	-	-	74	-39.75	0-360	200	V
7	4.515	29.34	PK	33.9	-28.5	.4	35.14	-	-	74	-38.86	0-360	200	V
8	6.832	27.02	PK	35.6	-25.9	.4	37.12	-	-	74	-36.88	0-360	200	V

PK – Peak Detector

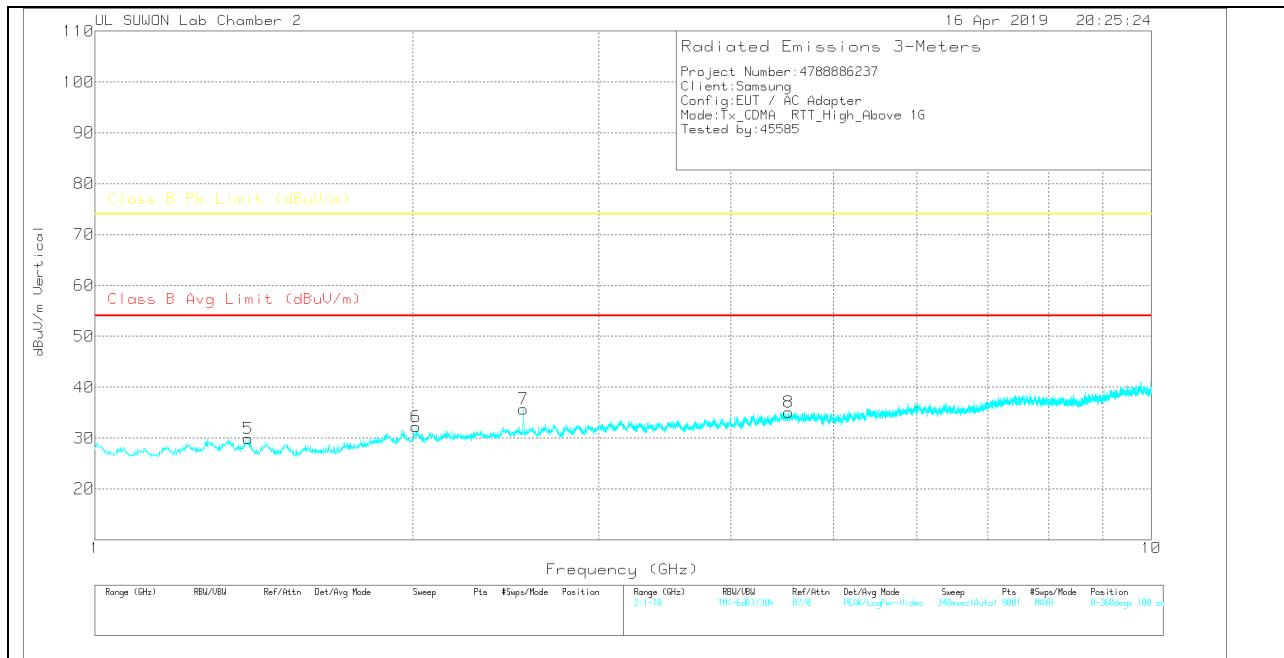
Note: Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

**HIGH CHANNEL(893.31MHz)**

**HORIZONTAL PEAK PLOT**



**VERTICAL PEAK PLOT**



**DATA**

Trace Markers

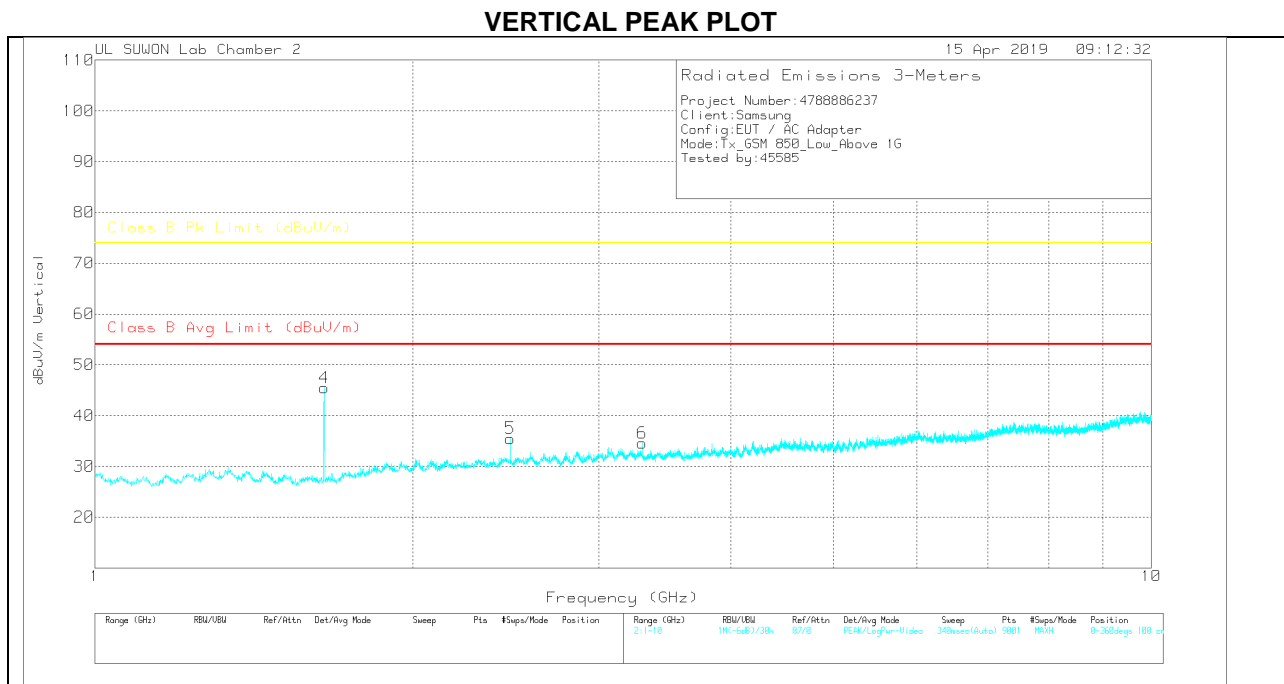
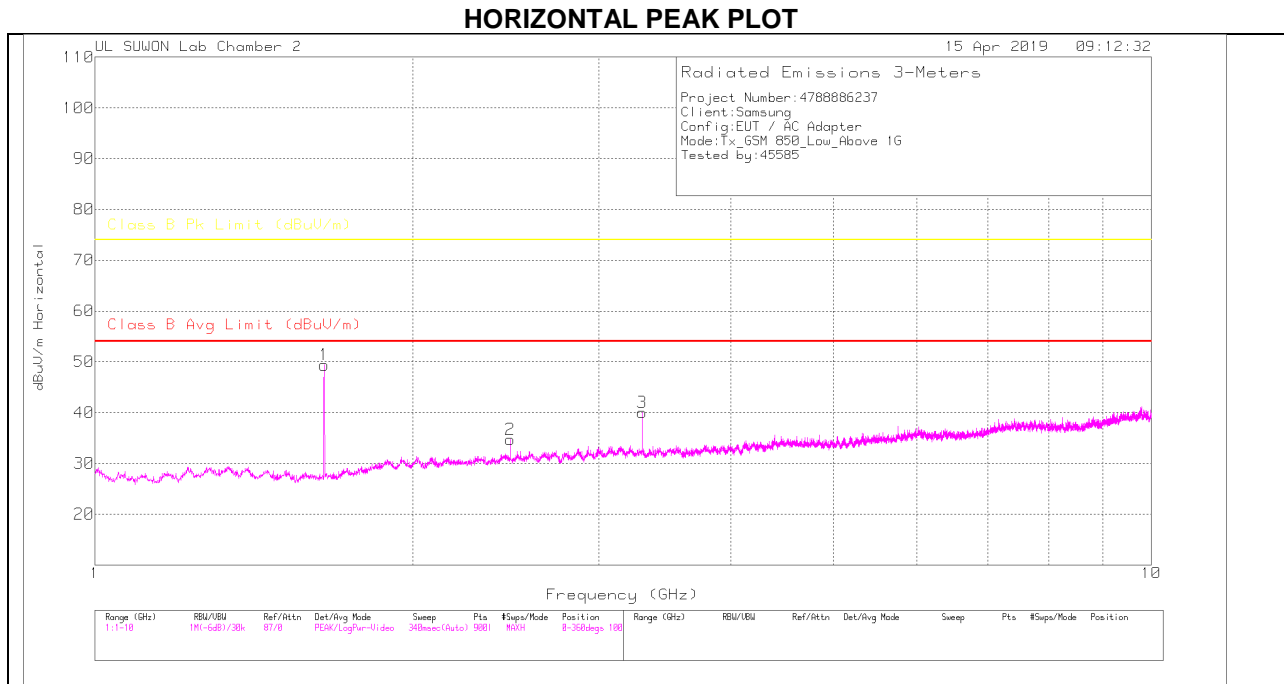
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSPK)Margin (dB)	Class B PK Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.397	31.84	PK	29.4	-31.7	.6	30.14	-	-	74	-43.86	0-360	200	H
2	2.581	31.43	PK	32	-30.3	.7	33.83	-	-	74	-40.17	0-360	200	H
3	4.264	30.55	PK	33.5	-28.8	.4	35.65	-	-	74	-38.35	0-360	100	H
4	6.107	29.4	PK	35.1	-27.1	.4	37.8	-	-	74	-36.2	0-360	200	H
5	1.397	31.6	PK	29.4	-31.7	.6	29.9	-	-	74	-44.1	0-360	100	V
6	2.014	31.44	PK	31.2	-31	.6	32.24	-	-	74	-41.76	0-360	200	V
7	2.544	33.33	PK	32	-30.3	.7	35.73	-	-	74	-38.27	0-360	100	V
8	4.533	29.52	PK	33.9	-28.7	.4	35.12	-	-	74	-38.88	0-360	100	V

PK – Peak Detector

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

## 4.2. Above 1 GHz in the GSM850

### LOW CHANNEL(869.2MHz)



**DATA**

Trace Markers

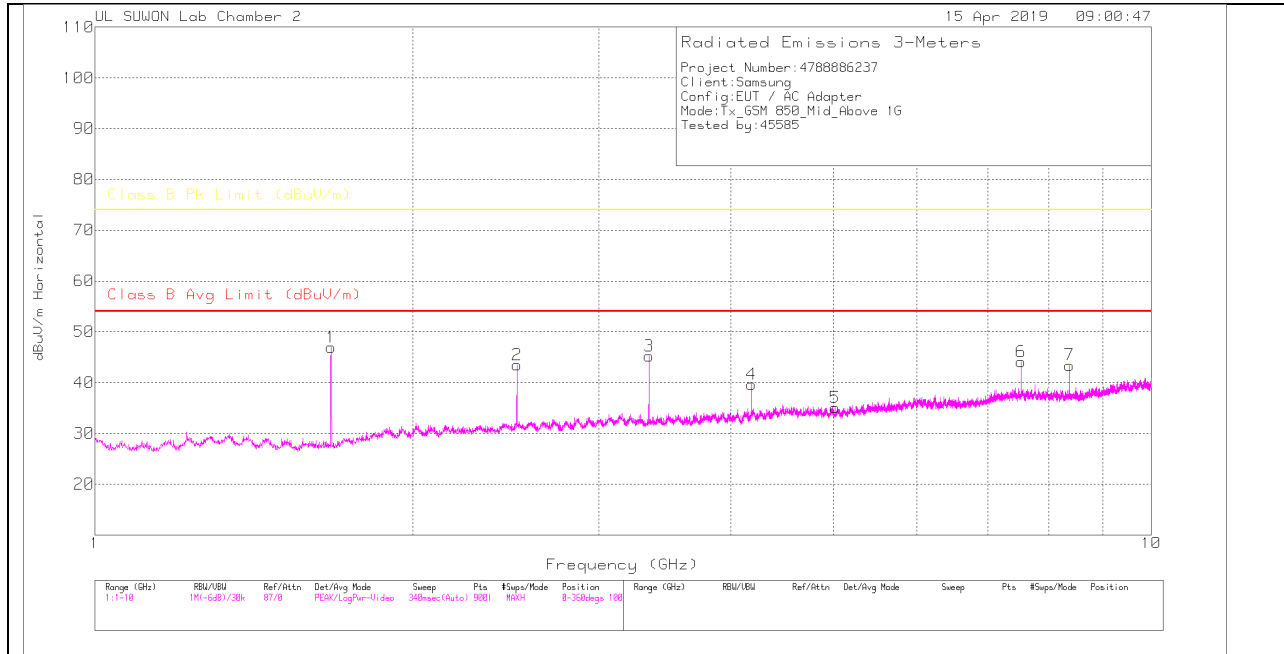
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSFR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.648	51.87	PK	28.3	-31.4	.6	49.37	-	-	74	-24.63	0-360	200	H
2	2.472	32.38	PK	31.8	-30.2	.7	34.68	-	-	74	-39.32	0-360	100	H
3	3.297	36.7	PK	32.6	-30	.7	40	-	-	74	-34	0-360	200	H
4	1.648	48.01	PK	28.3	-31.4	.6	45.51	-	-	74	-28.49	0-360	100	V
5	2.472	33.21	PK	31.8	-30.2	.7	35.51	-	-	74	-38.49	0-360	100	V
6	3.296	31.31	PK	32.6	-30	.7	34.61	-	-	74	-39.39	0-360	100	V

PK – Peak Detector

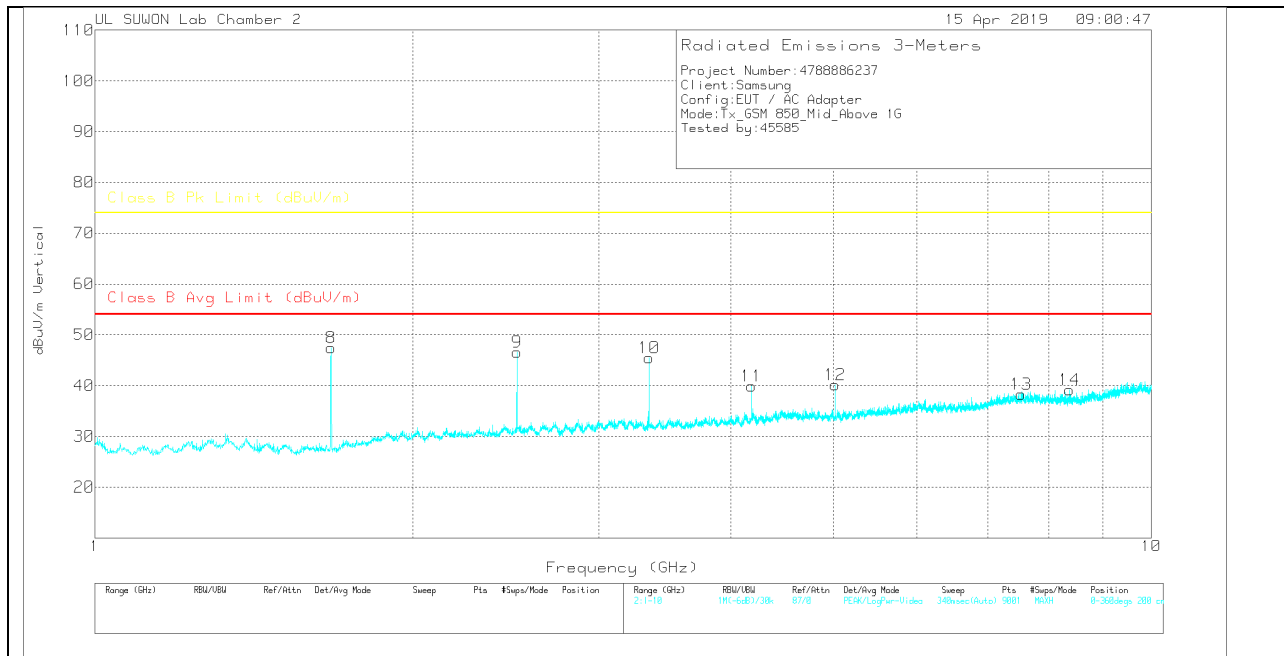
Note: Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

**MID CHANNEL(881.6MHz)**

**HORIZONTAL PEAK PLOT**



**VERTICAL PEAK PLOT**



**DATA**

Trace Markers

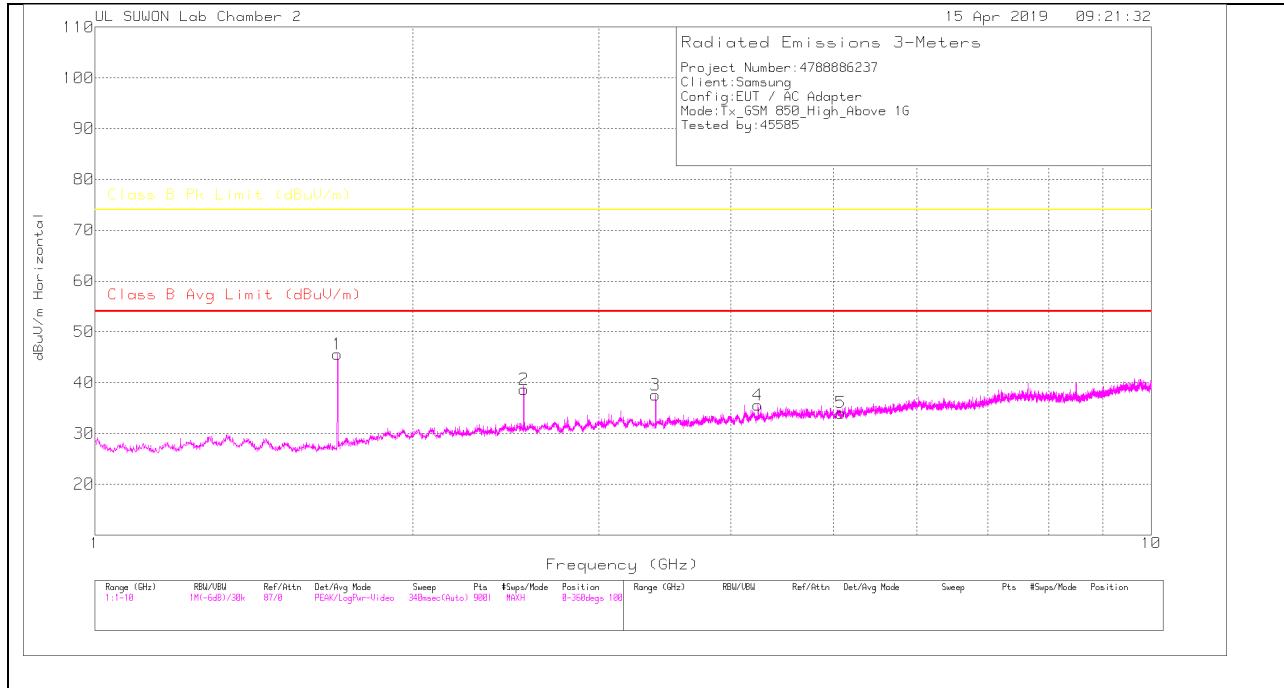
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSPK)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.673	49.2	PK	28.5	-31.3	.5	46.9	-	-	74	-27.1	0-360	200	H
2	2.509	41.38	PK	31.9	-30.3	.5	43.48	-	-	74	-30.52	0-360	100	H
3	3.346	41.9	PK	32.6	-29.8	.5	45.2	-	-	74	-28.8	0-360	200	H
4	4.183	34.07	PK	33.4	-28.2	.4	39.67	-	-	74	-34.33	0-360	100	H
5	5.019	28.73	PK	34.1	-28.2	.4	35.03	-	-	74	-38.97	0-360	200	H
6	7.529	32.53	PK	36.1	-25.1	.6	44.13	-	-	74	-29.87	0-360	100	H
7	8.367	31.03	PK	36	-24.2	.6	43.43	-	-	74	-30.57	0-360	200	H
8	1.673	49.76	PK	28.5	-31.3	.5	47.46	-	-	74	-26.54	0-360	100	V
9	2.51	44.49	PK	31.9	-30.3	.5	46.59	-	-	74	-27.41	0-360	100	V
10	3.346	42.17	PK	32.6	-29.8	.5	45.47	-	-	74	-28.53	0-360	100	V
11	4.183	34.27	PK	33.4	-28.2	.4	39.87	-	-	74	-34.13	0-360	100	V
12	5.02	33.86	PK	34.1	-28.2	.4	40.16	-	-	74	-33.84	0-360	200	V
13	7.53	26.64	PK	36.1	-25.1	.6	38.24	-	-	74	-35.76	0-360	200	V
14	8.366	26.71	PK	36	-24.2	.6	39.11	-	-	74	-34.89	0-360	200	V

PK – Peak Detector

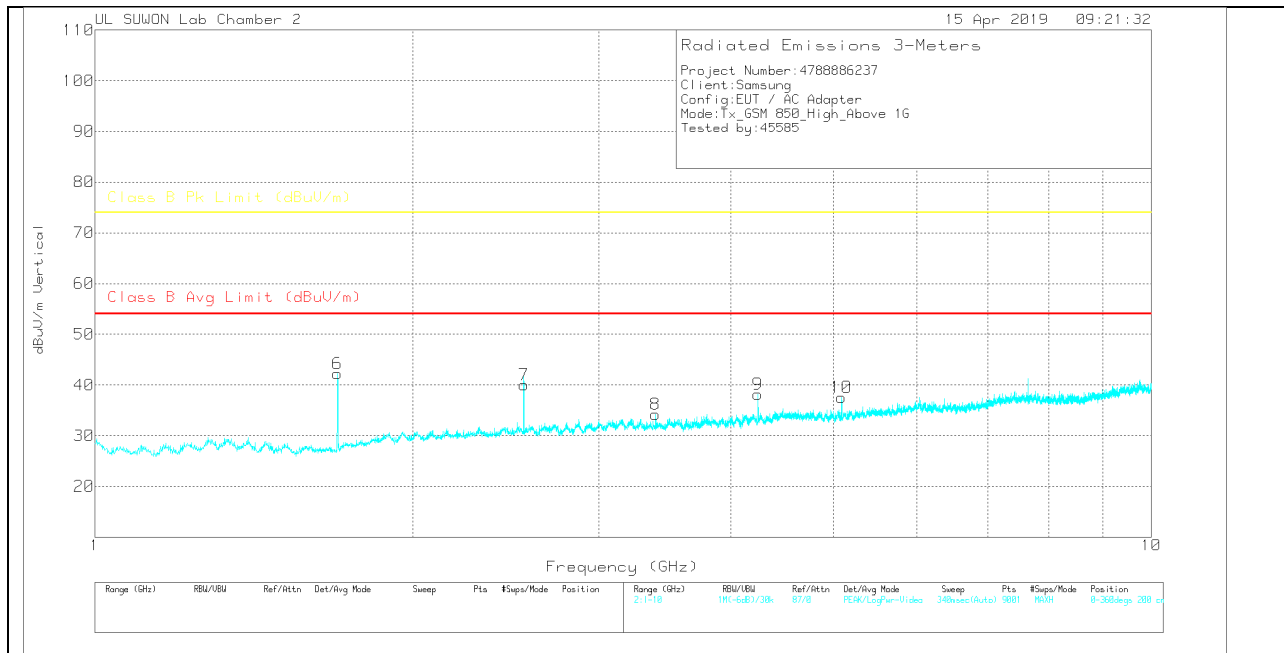
Note: Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

**HIGH CHANNEL(893.8MHz)**

**HORIZONTAL PEAK PLOT**



**VERTICAL PEAK PLOT**





**DATA**

Trace Markers

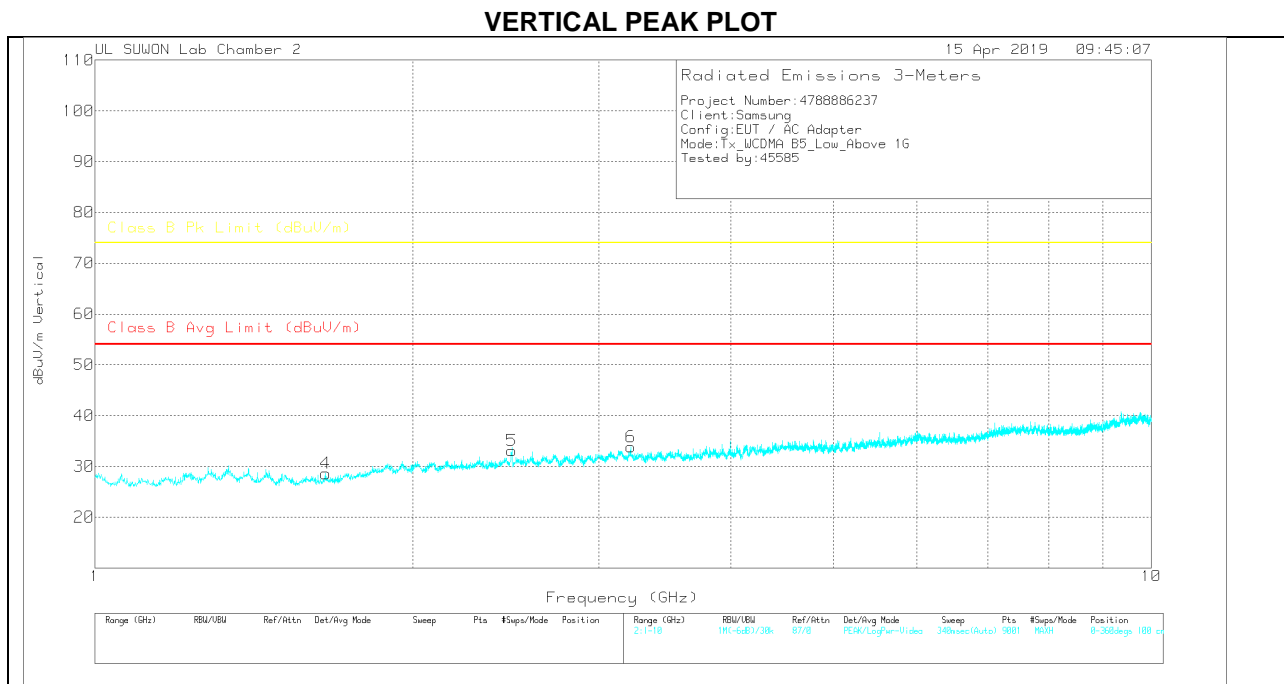
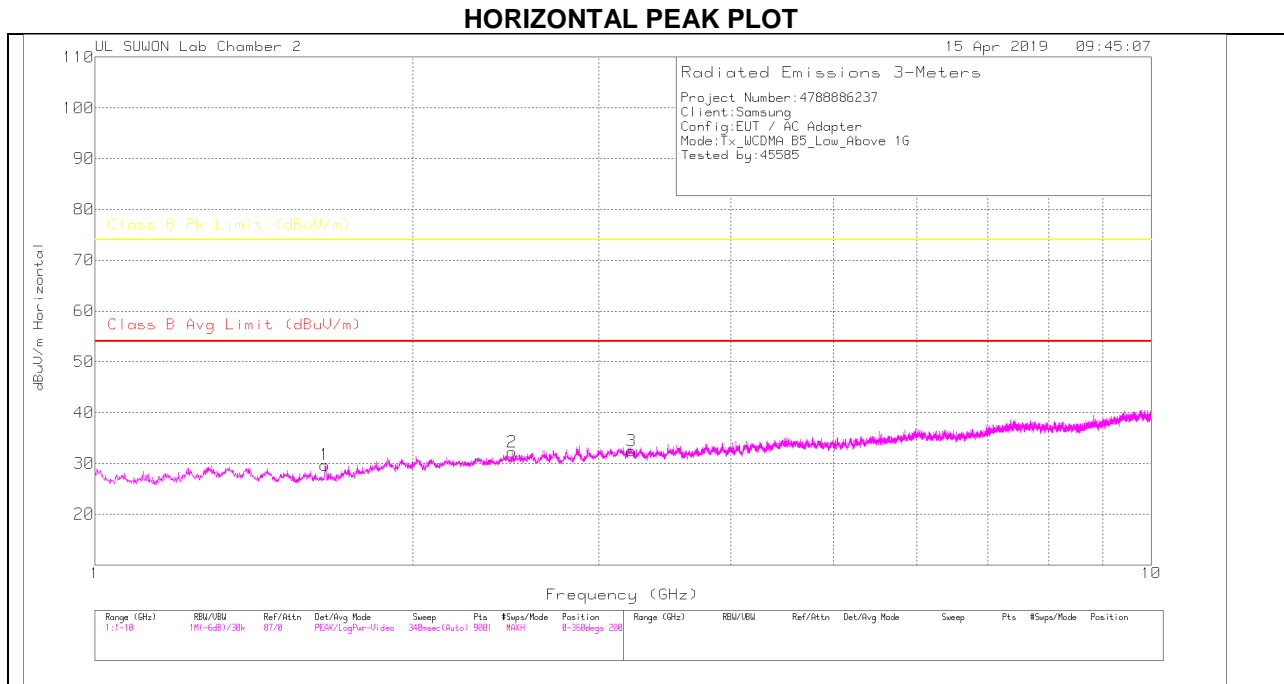
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSPK)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.697	47.67	PK	28.6	-31.3	.6	45.57	-	-	74	-28.43	0-360	200	H
2	2.547	36.21	PK	32	-30.3	.7	38.61	-	-	74	-35.39	0-360	200	H
3	3.395	33.67	PK	32.6	-29.4	.7	37.57	-	-	74	-36.43	0-360	100	H
4	4.244	30.24	PK	33.4	-28.5	.4	35.54	-	-	74	-38.46	0-360	200	H
5	5.085	27.53	PK	34.2	-28.1	.4	34.03	-	-	74	-39.97	0-360	200	H
6	1.697	44.4	PK	28.6	-31.3	.6	42.3	-	-	74	-31.7	0-360	200	V
7	2.547	37.61	PK	32	-30.3	.7	40.01	-	-	74	-33.99	0-360	200	V
8	3.395	30.31	PK	32.6	-29.4	.7	34.21	-	-	74	-39.79	0-360	200	V
9	4.244	32.89	PK	33.4	-28.5	.4	38.19	-	-	74	-35.81	0-360	100	V
10	5.092	30.99	PK	34.2	-28	.4	37.59	-	-	74	-36.41	0-360	200	V

PK – Peak Detector

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

### 4.3. Above 1 GHz in the WCDMA Band 5

#### LOW CHANNEL(871.4MHz)



**DATA**

Trace Markers

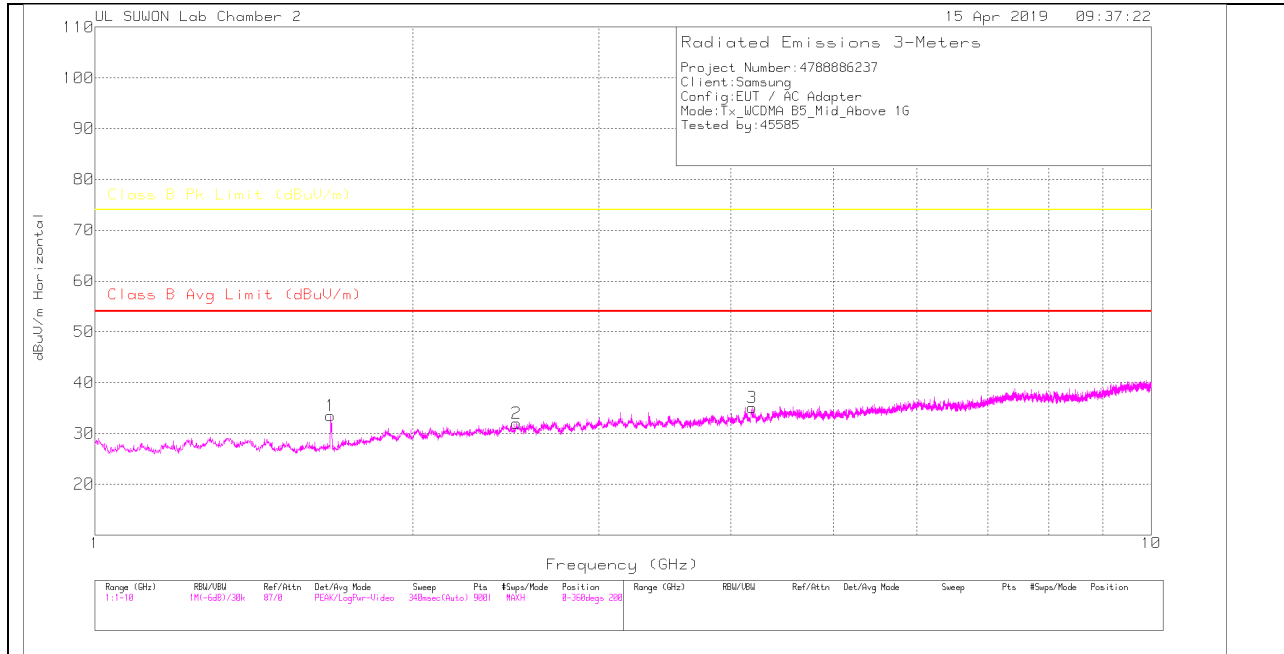
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSFR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.651	32.2	PK	28.3	-31.4	.6	29.7	-	-	74	-44.3	0-360	200	H
2	2.482	29.91	PK	31.9	-30.2	.6	32.21	-	-	74	-41.79	0-360	100	H
3	3.219	28.62	PK	32.9	-29.6	.6	32.52	-	-	74	-41.48	0-360	100	H
4	1.654	31.29	PK	28.3	-31.5	.5	28.59	-	-	74	-45.41	0-360	200	V
5	2.481	30.9	PK	31.9	-30.3	.6	33.1	-	-	74	-40.9	0-360	100	V
6	3.215	30.17	PK	32.9	-29.8	.6	33.87	-	-	74	-40.13	0-360	200	V

PK – Peak Detector

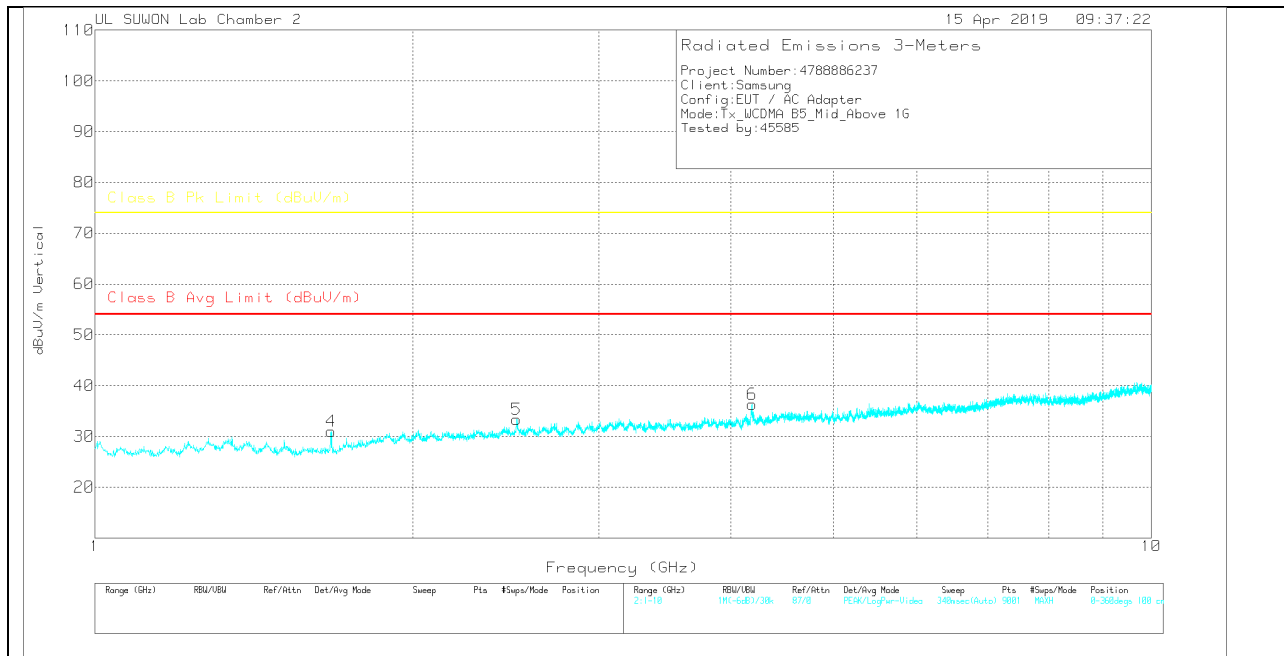
Note: Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

**MID CHANNEL(881.6MHz)**

**HORIZONTAL PEAK PLOT**



**VERTICAL PEAK PLOT**



**DATA**

Trace Markers

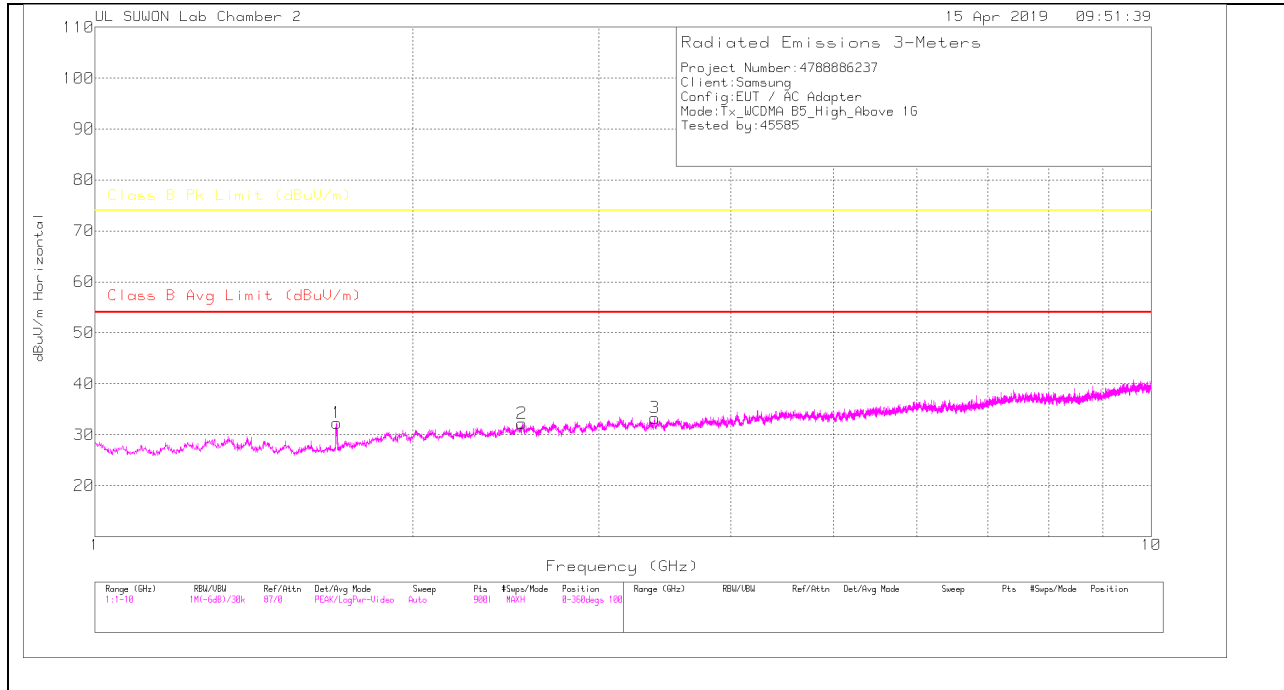
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSPK)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.671	35.9	PK	28.5	-31.4	.5	33.5	-	-	74	-40.5	0-360	200	H
2	2.506	29.96	PK	31.9	-30.4	.5	31.96	-	-	74	-42.04	0-360	100	H
3	4.187	29.45	PK	33.4	-28.2	.4	35.05	-	-	74	-38.95	0-360	200	H
4	1.674	33.36	PK	28.5	-31.4	.5	30.96	-	-	74	-43.04	0-360	200	V
5	2.507	31.17	PK	31.9	-30.2	.5	33.37	-	-	74	-40.63	0-360	100	V
6	4.188	30.71	PK	33.4	-28.2	.4	36.31	-	-	74	-37.69	0-360	200	V

PK – Peak Detector

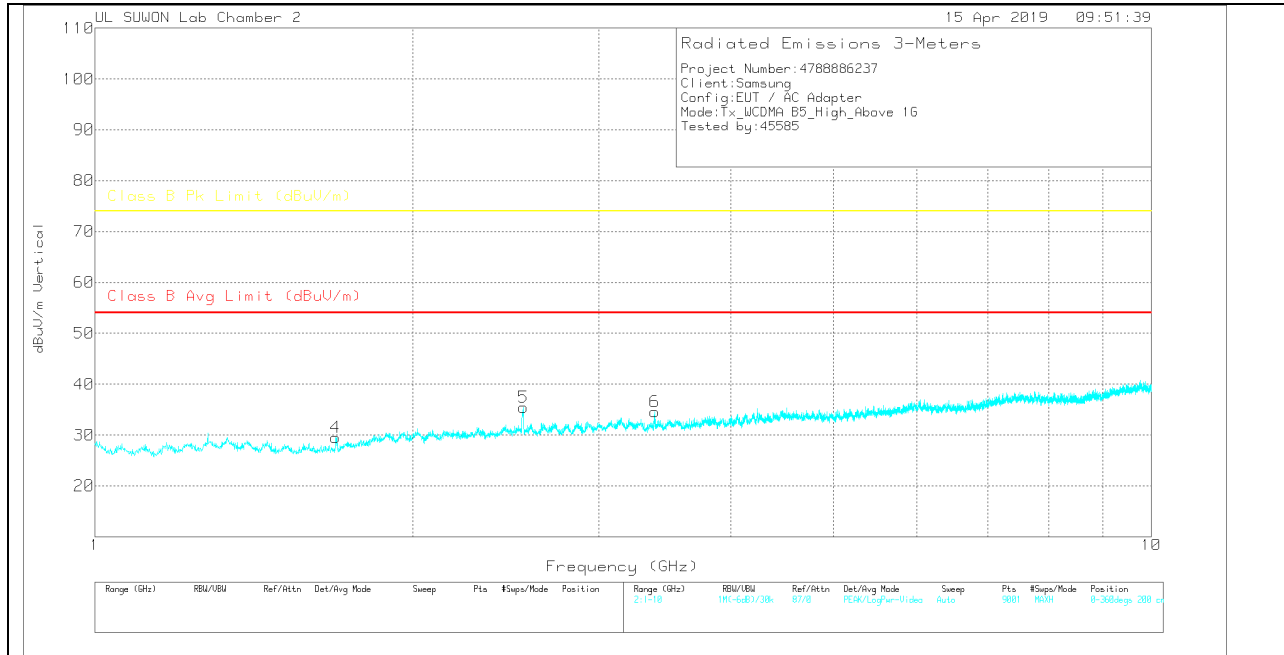
Note: Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

**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	1.695	34.4	PK	28.6	-31.3	.6	32.3	-	-	74	-41.7	0-360	200	H
2	2.536	29.85	PK	32	-30.2	.6	32.25	-	-	74	-41.75	0-360	100	H
3	3.386	29.59	PK	32.6	-29.6	.7	33.29	-	-	74	-40.71	0-360	100	H
4	1.69	31.66	PK	28.6	-31.3	.6	29.56	-	-	74	-44.44	0-360	200	V
5	2.543	32.92	PK	32	-30.2	.7	35.42	-	-	74	-38.58	0-360	100	V
6	3.389	30.8	PK	32.6	-29.5	.7	34.6	-	-	74	-39.4	0-360	200	V

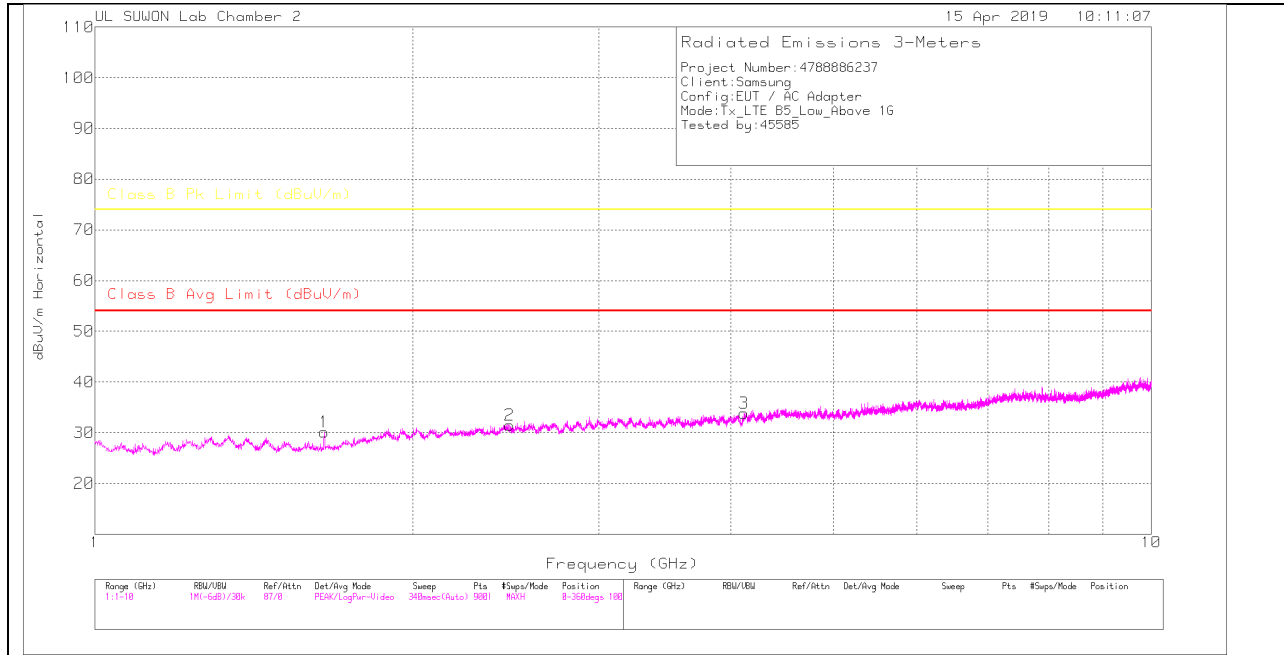
PK – Peak Detector

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

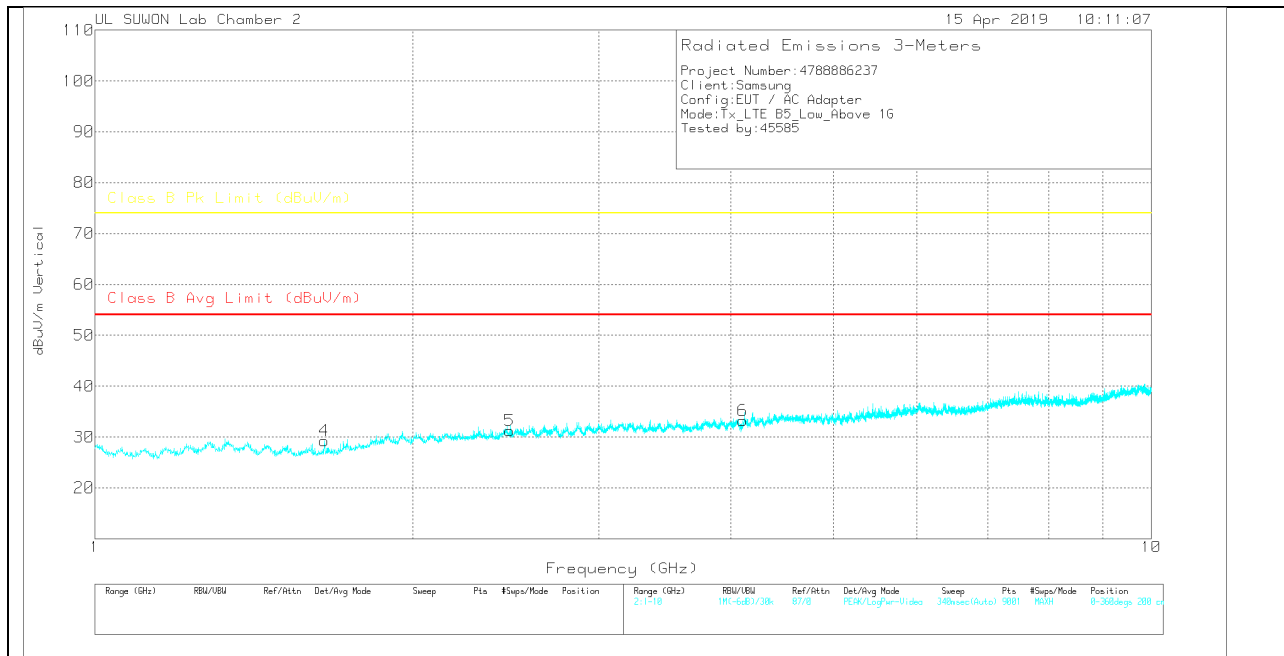
### 4.4. Above 1 GHz in the LTE Band 5

#### LOW CHANNEL(870.5MHz)

#### HORIZONTAL PEAK PLOT



#### VERTICAL PEAK PLOT





**DATA**

Trace Markers

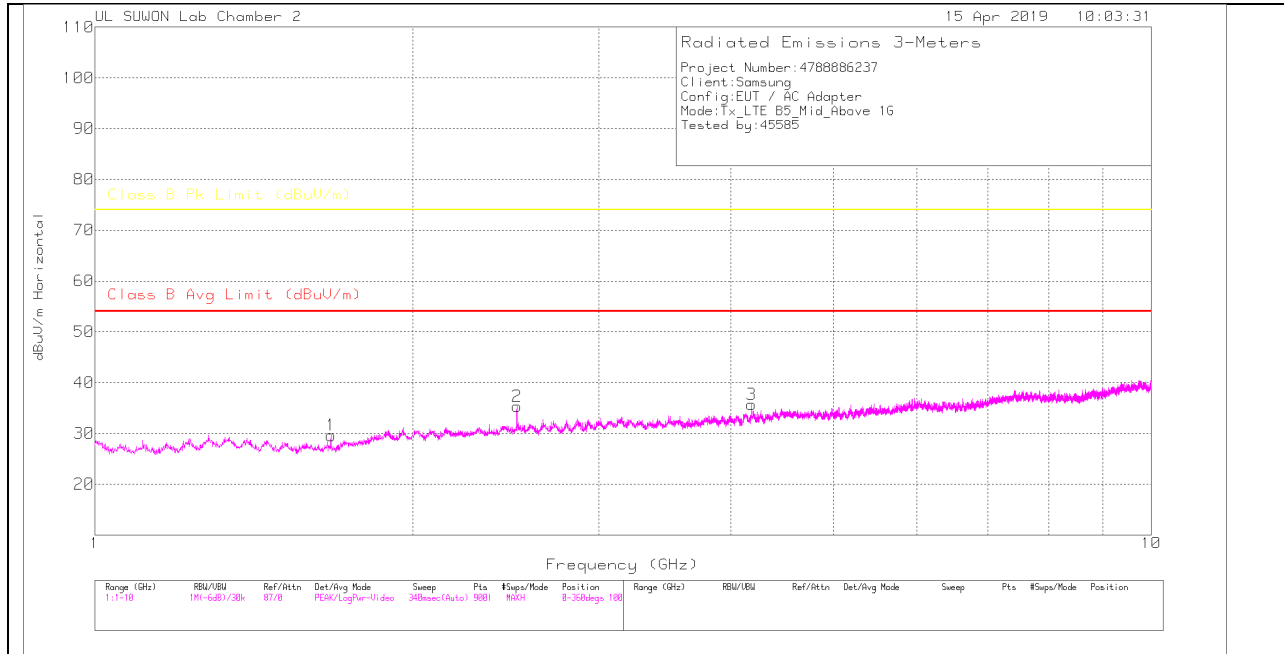
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSFR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.648	32.68	PK	28.3	-31.4	.6	30.18	-	-	74	-43.82	0-360	200	H
2	2.469	29.16	PK	31.8	-30.2	.7	31.46	-	-	74	-42.54	0-360	100	H
3	4.118	28.52	PK	33.4	-28.5	.4	33.82	-	-	74	-40.18	0-360	100	H
4	1.649	31.8	PK	28.3	-31.4	.6	29.3	-	-	74	-44.7	0-360	200	V
5	2.469	28.96	PK	31.8	-30.2	.7	31.26	-	-	74	-42.74	0-360	100	V
6	4.106	28.01	PK	33.4	-28.6	.4	33.21	-	-	74	-40.79	0-360	200	V

PK – Peak Detector

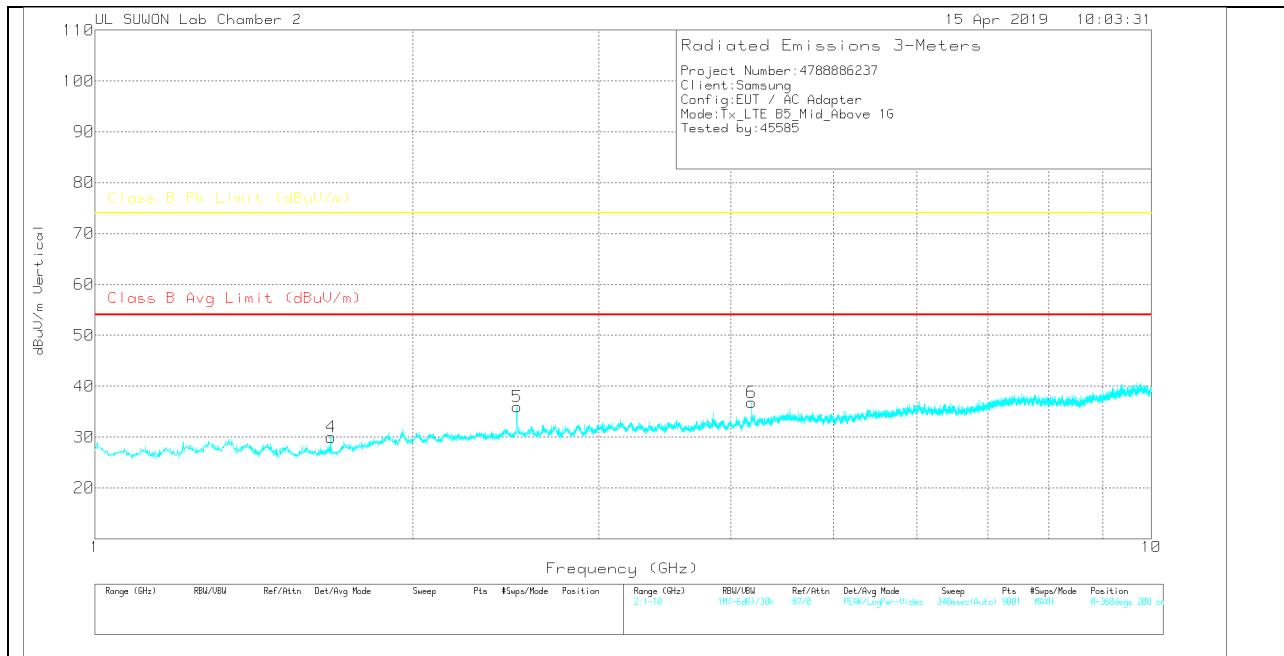
Note: Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

**MID CHANNEL(881.5MHz)**

**HORIZONTAL PEAK PLOT**



**VERTICAL PEAK PLOT**



**DATA**

Trace Markers

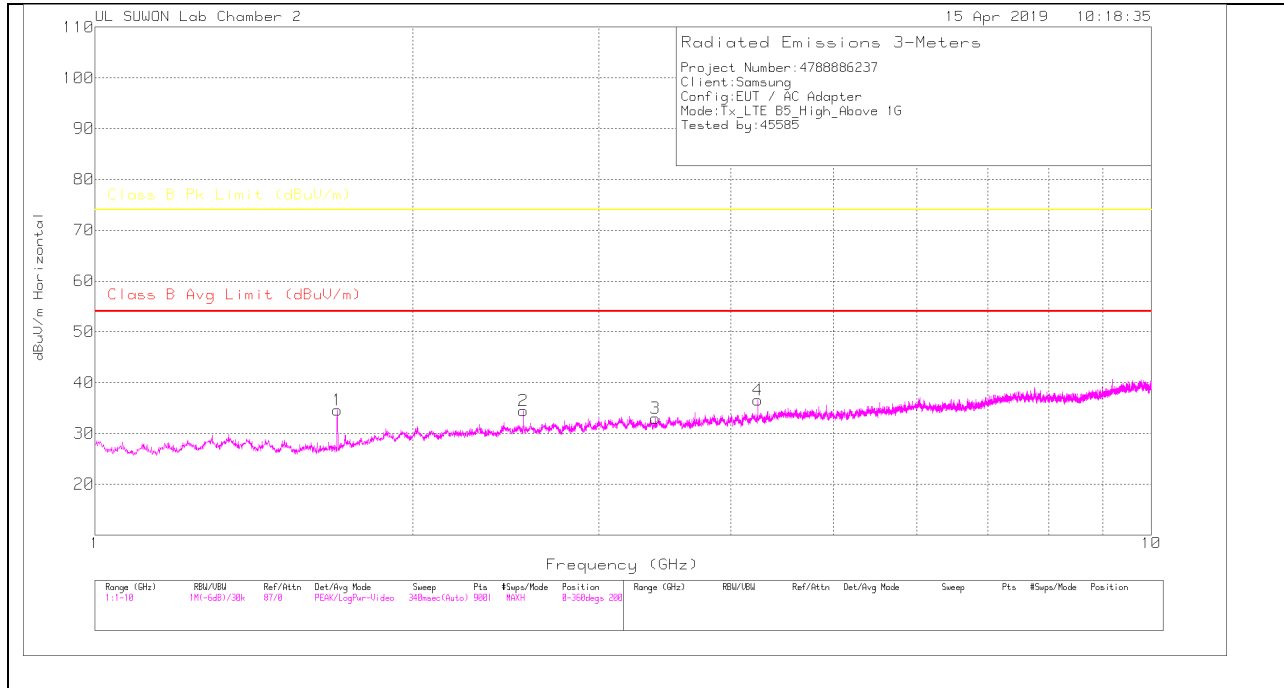
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSPK)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.673	31.88	PK	28.5	-31.3	.5	29.58	-	-	74	-44.42	0-360	200	H
2	2.509	33.28	PK	31.9	-30.3	.5	35.38	-	-	74	-38.62	0-360	200	H
3	4.182	30.01	PK	33.4	-28.1	.4	35.71	-	-	74	-38.29	0-360	200	H
4	1.673	32.25	PK	28.5	-31.3	.5	29.95	-	-	74	-44.05	0-360	200	V
5	2.509	33.84	PK	31.9	-30.3	.5	35.94	-	-	74	-38.06	0-360	100	V
6	4.182	31.15	PK	33.4	-28.1	.4	36.85	-	-	74	-37.15	0-360	200	V

PK – Peak Detector

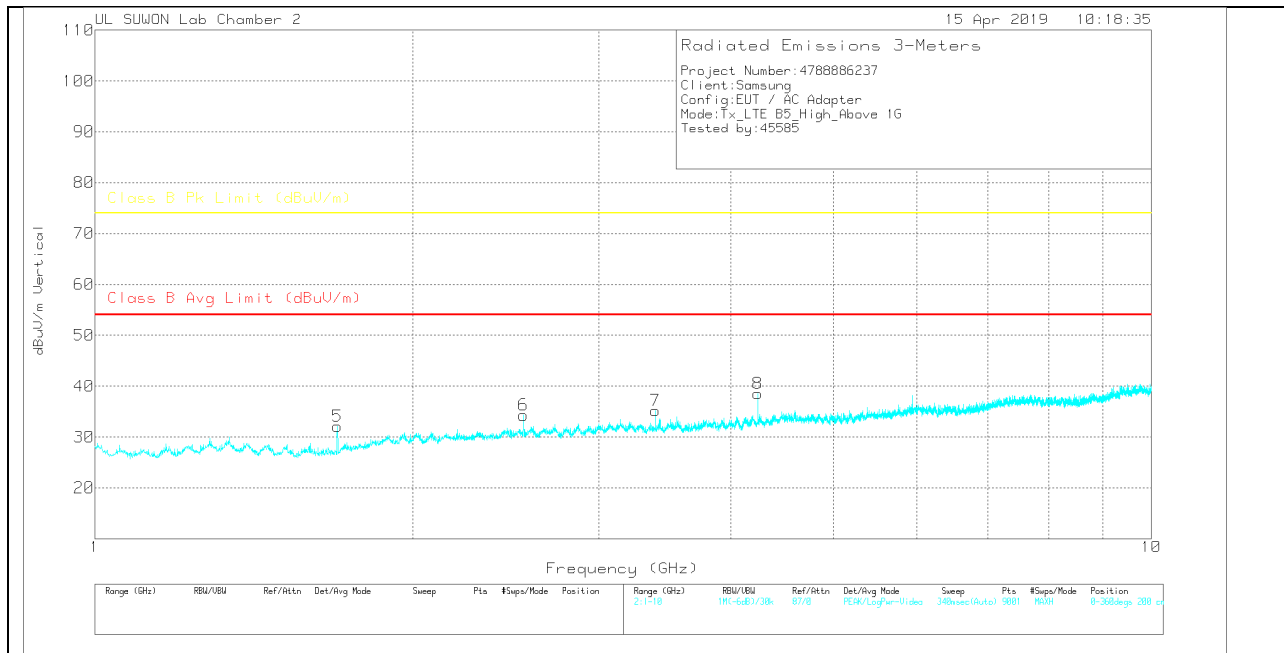
Note: Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

**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	1.696	36.71	PK	28.6	-31.3	.6	34.61	-	-	74	-39.39	0-360	200	H
2	2.544	32.11	PK	32	-30.3	.7	34.51	-	-	74	-39.49	0-360	100	H
3	3.393	29.16	PK	32.6	-29.5	.7	32.96	-	-	74	-41.04	0-360	100	H
4	4.241	31.23	PK	33.4	-28.5	.4	36.53	-	-	74	-37.47	0-360	100	H
5	1.697	34.18	PK	28.6	-31.3	.6	32.08	-	-	74	-41.92	0-360	100	V
6	2.545	31.58	PK	32	-30	.7	34.28	-	-	74	-39.72	0-360	100	V
7	3.392	31.52	PK	32.6	-29.6	.7	35.22	-	-	74	-38.78	0-360	100	V
8	4.242	33.19	PK	33.4	-28.5	.4	38.49	-	-	74	-35.51	0-360	100	V

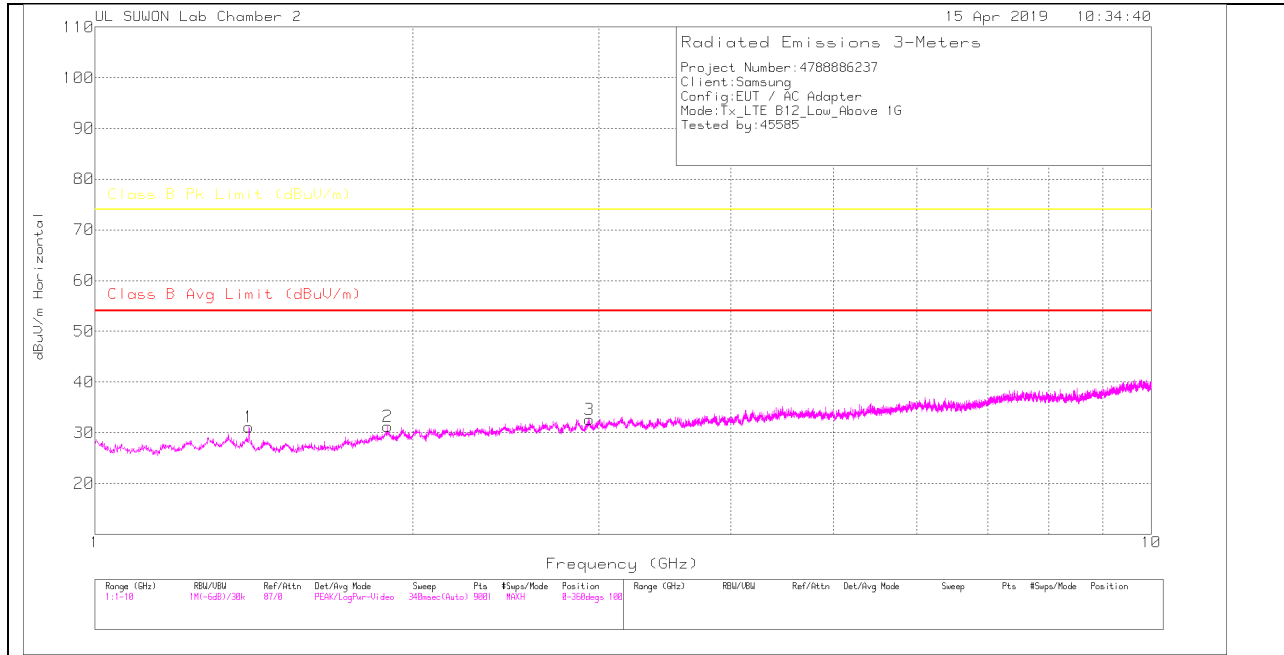
PK – Peak Detector

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

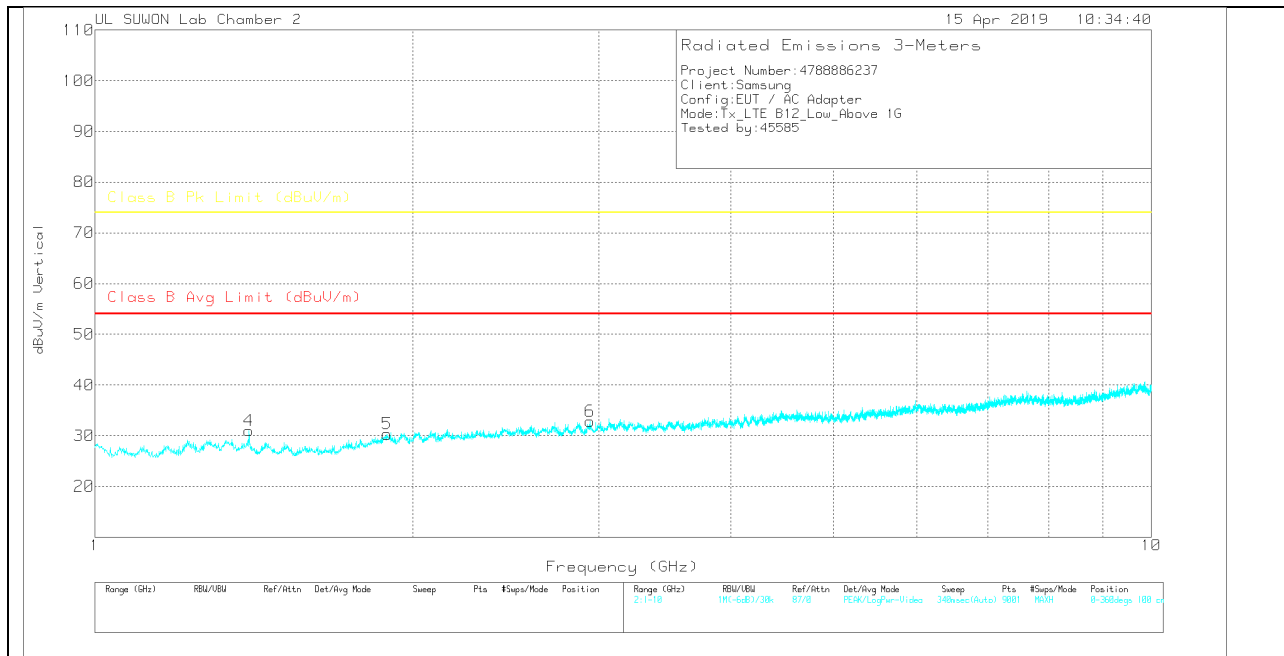
### 4.5. Above 1 GHz in the LTE Band 12

#### LOW CHANNEL(730.5MHz)

#### HORIZONTAL PEAK PLOT



#### VERTICAL PEAK PLOT



**DATA**

Trace Markers

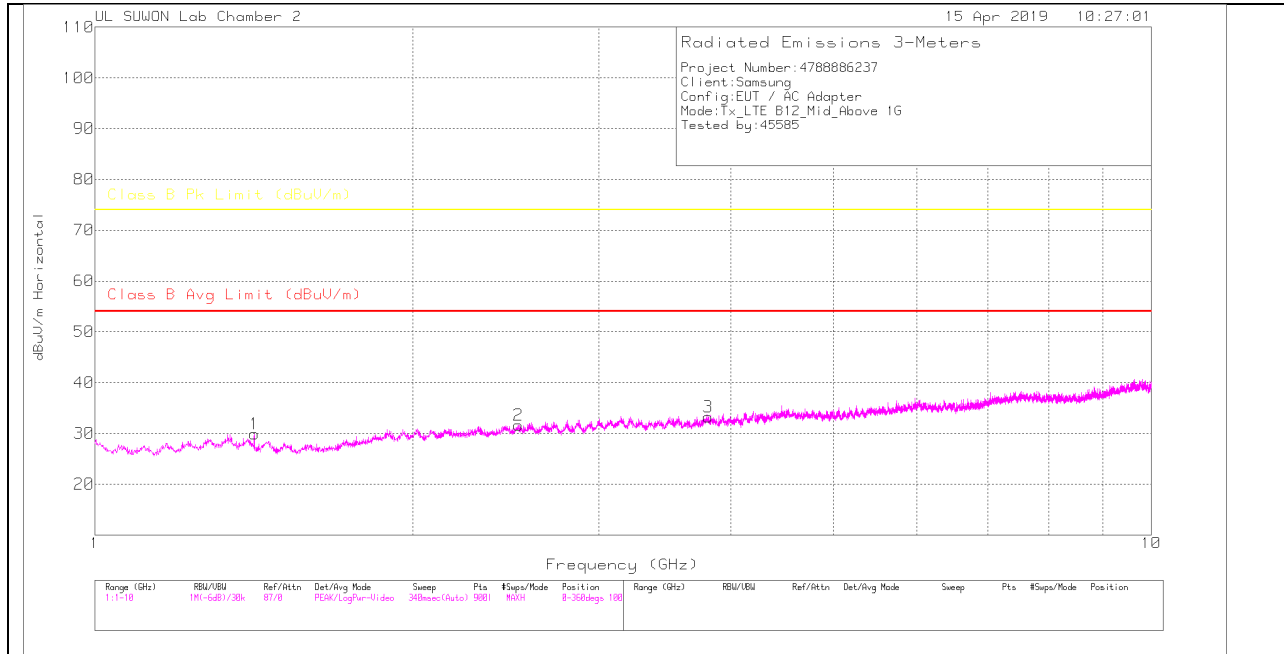
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSFR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.399	32.83	PK	29.4	-31.7	.6	31.13	-	-	74	-42.87	0-360	100	H
2	1.892	30.83	PK	30.8	-31.1	.7	31.23	-	-	74	-42.77	0-360	100	H
3	2.94	29.82	PK	32.3	-30.1	.6	32.62	-	-	74	-41.38	0-360	200	H
4	1.399	32.69	PK	29.4	-31.7	.6	30.99	-	-	74	-43.01	0-360	200	V
5	1.891	29.92	PK	30.8	-31.1	.7	30.32	-	-	74	-43.68	0-360	100	V
6	2.941	30.02	PK	32.3	-30.1	.6	32.82	-	-	74	-41.18	0-360	200	V

PK – Peak Detector

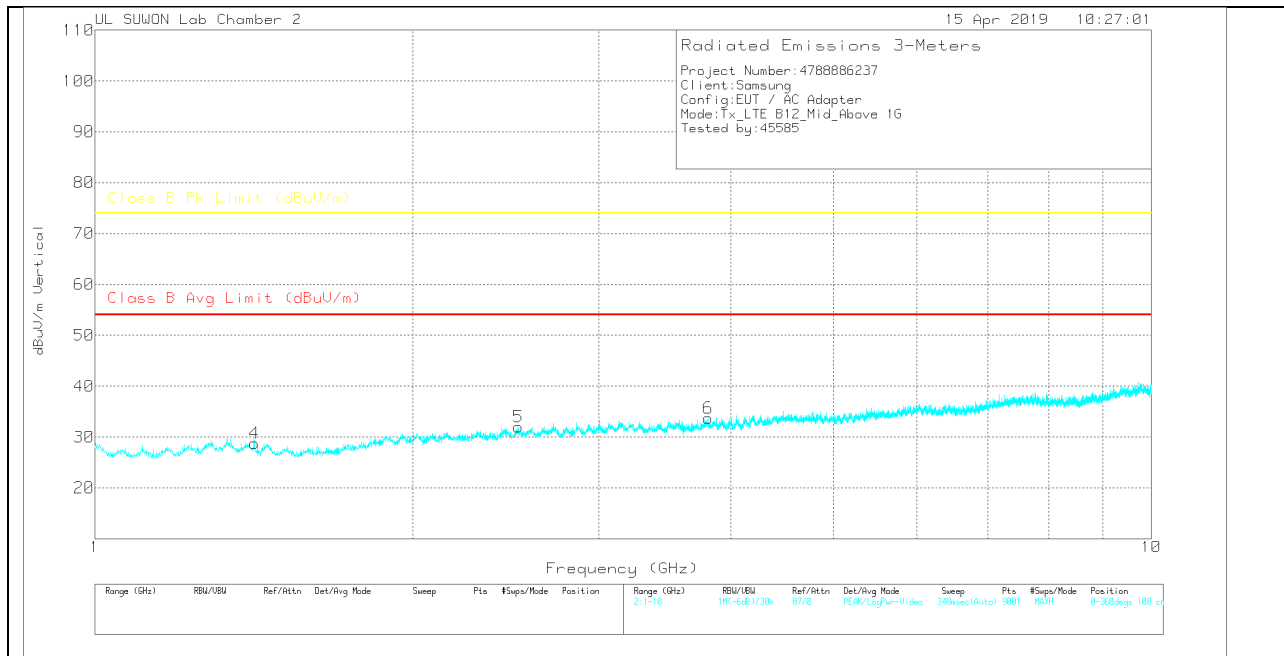
Note: Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

**MID CHANNEL(737.5MHz)**

**HORIZONTAL PEAK PLOT**



**VERTICAL PEAK PLOT**





**DATA**

Trace Markers

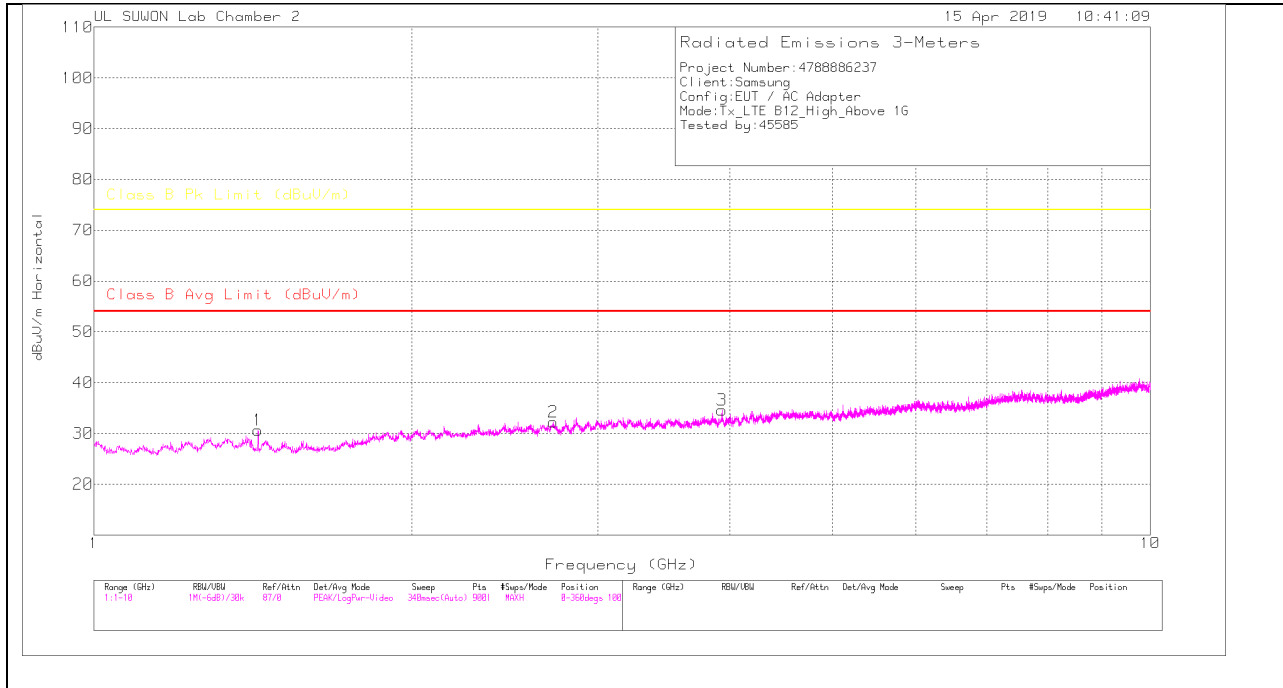
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSPP)/Margin (dB)	Class B PK Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.415	31.74	PK	29.3	-31.8	.6	29.84	-	-	74	-44.16	0-360	100	H
2	2.518	29.26	PK	31.9	-30.1	.6	31.66	-	-	74	-42.34	0-360	200	H
3	3.804	28.78	PK	33.2	-29.2	.5	33.28	-	-	74	-40.72	0-360	100	H
4	1.415	30.7	PK	29.3	-31.8	.6	28.8	-	-	74	-45.2	0-360	200	V
5	2.516	29.66	PK	31.9	-30.1	.5	31.96	-	-	74	-42.04	0-360	100	V
6	3.806	29.17	PK	33.2	-29.1	.5	33.77	-	-	74	-40.23	0-360	200	V

PK – Peak Detector

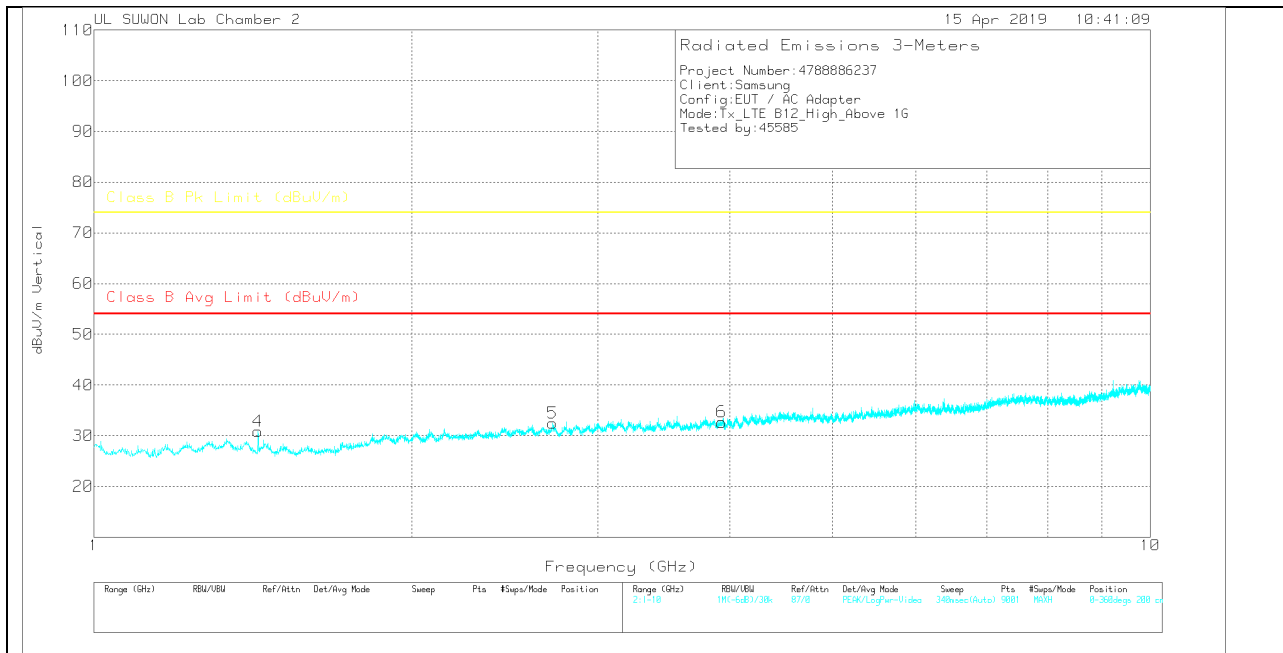
Note: Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

**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	1.43	32.61	PK	29.2	-31.8	.6	30.61	-	-	74	-43.39	0-360	100	H
2	2.72	29.58	PK	32.1	-30.2	.8	32.28	-	-	74	-41.72	0-360	200	H
3	3.931	30.23	PK	33.4	-29.6	.5	34.53	-	-	74	-39.47	0-360	100	H
4	1.43	32.9	PK	29.2	-31.8	.6	30.9	-	-	74	-43.1	0-360	100	V
5	2.718	29.74	PK	32.1	-30.2	.8	32.44	-	-	74	-41.56	0-360	100	V
6	3.93	28.37	PK	33.4	-29.6	.5	32.67	-	-	74	-41.33	0-360	100	V

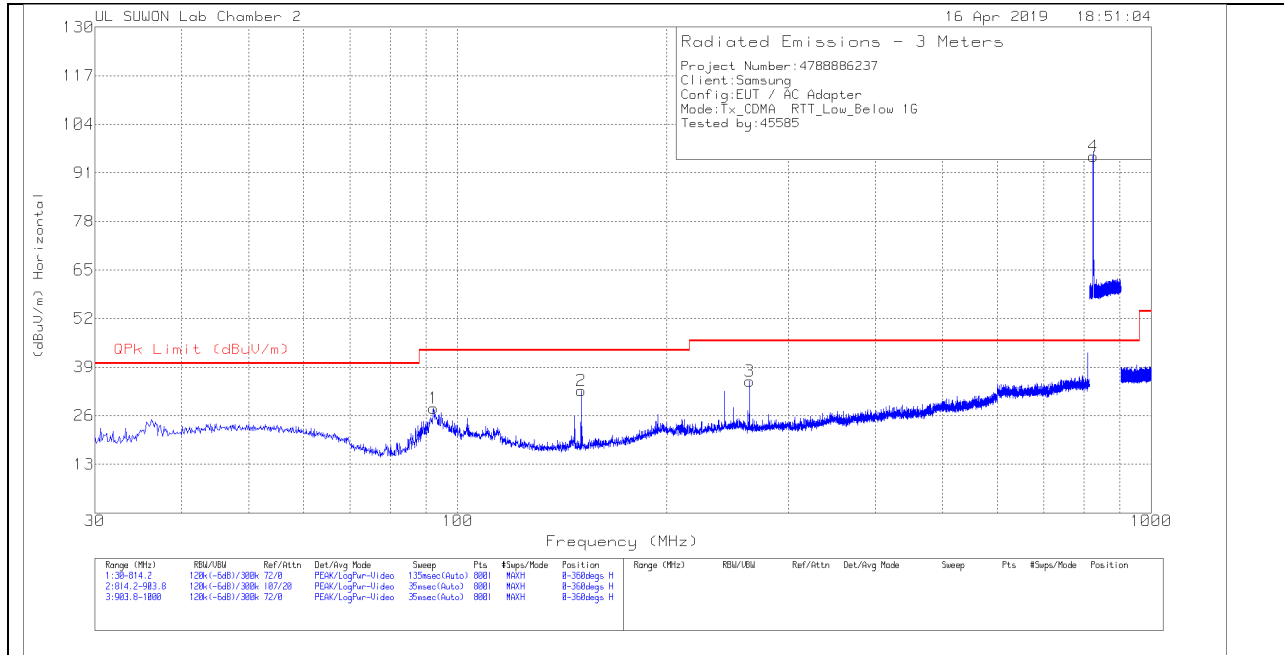
PK – Peak Detector

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

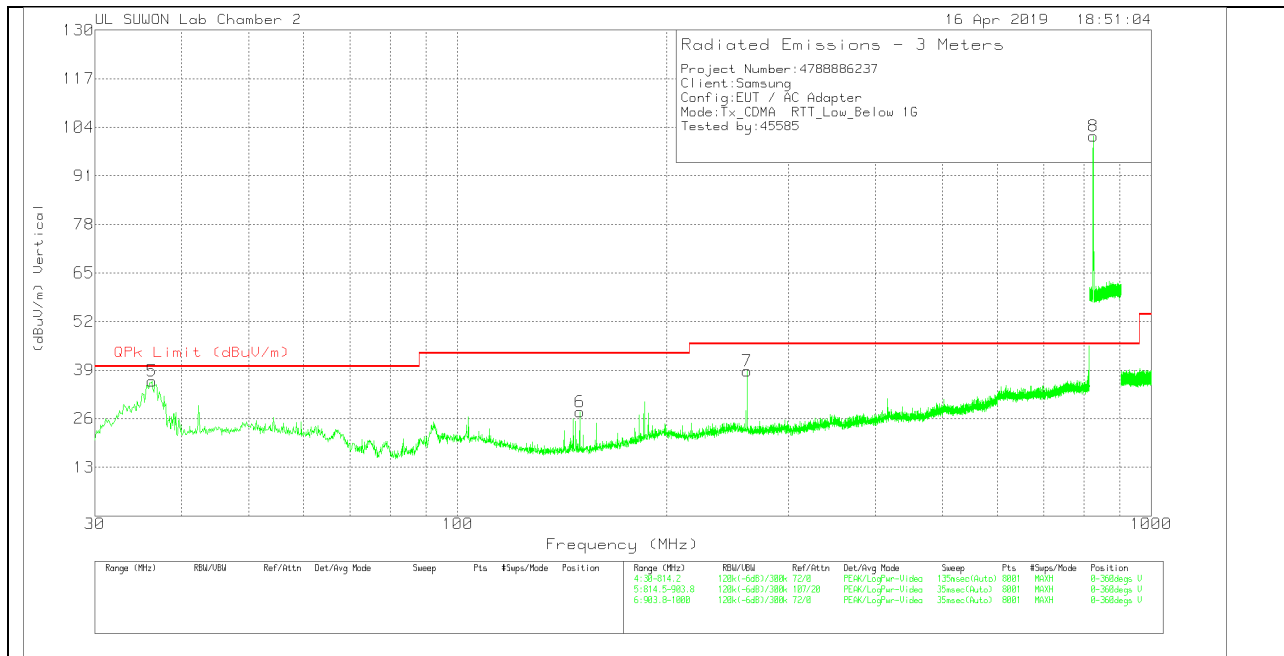
### 4.6. Below 1 GHz in the CDMA BC0

#### LOW CHANNEL(869.7MHz)

#### HORIZONTAL PEAK PLOT



#### VERTICAL PEAK PLOT



**DATA**

Trace Markers

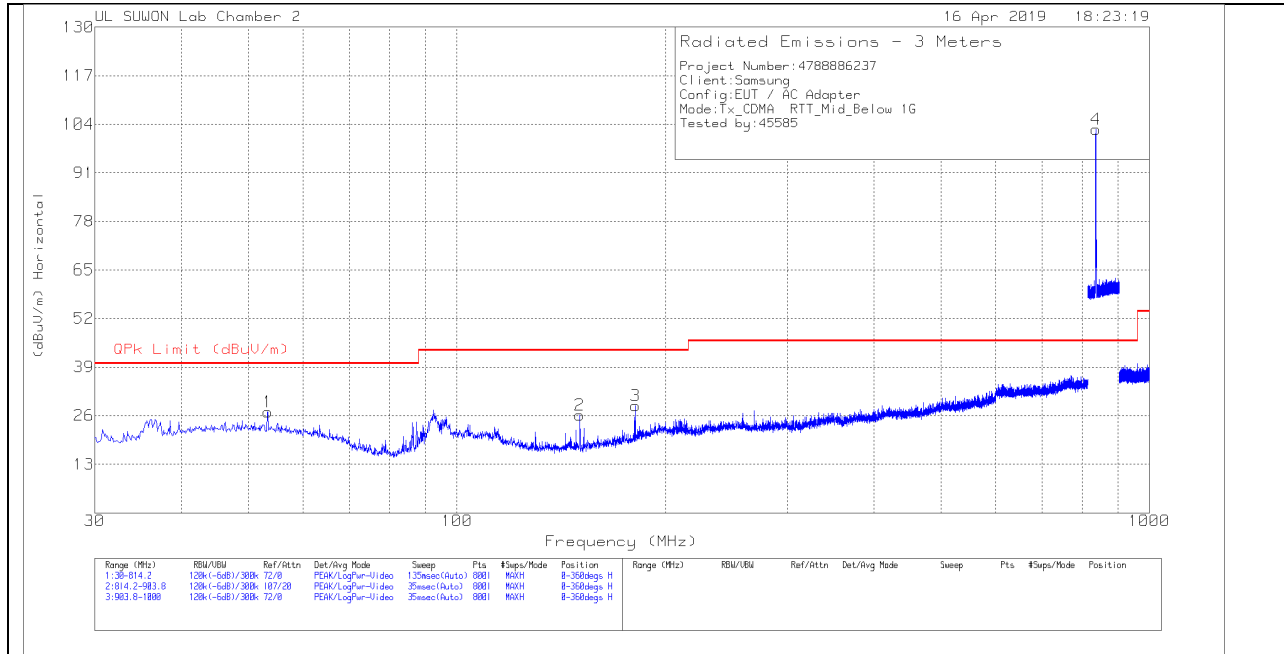
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	92.3439	10.46	Pk	16.5	1	27.96	43.52	-15.56	0-360	200	H
2	150.6688	17.33	Pk	14.1	1.3	32.73	43.52	-10.79	0-360	100	H
3	263.7896	14.85	Pk	18.6	1.7	35.15	46.02	-10.87	0-360	100	H
4	824.7168	65.47	Pk	26.9	3.1	95.47	46.02	49.45	0-360	200	H
5	36.2736	18.28	Pk	17.2	.6	36.08	40	-3.92	0-360	100	V
6	149.9826	12.46	Pk	14.1	1.3	27.86	43.52	-15.66	0-360	100	V
7	261.5351	18.28	Pk	18.8	1.7	38.78	46.02	-7.24	0-360	100	V
8	824.3904	71.66	Pk	26.9	3.1	101.66	46.02	55.64	0-360	100	V

Pk - Peak detector

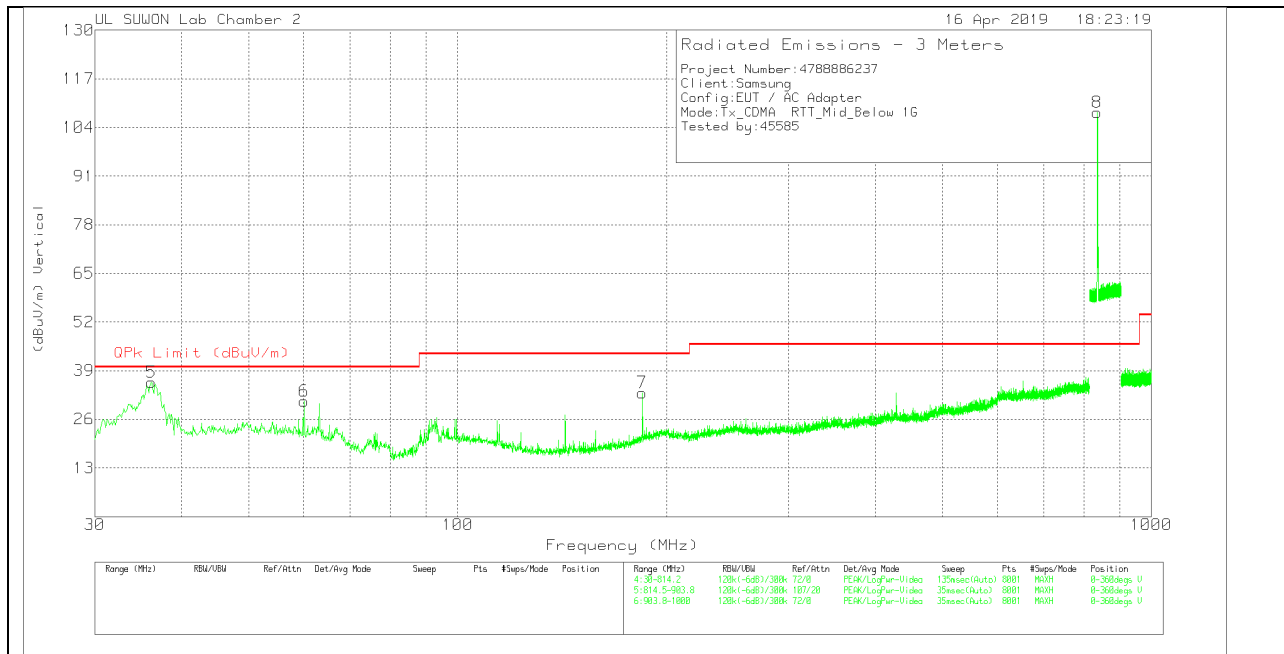
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

**MID CHANNEL(881.52MHz)**

**HORIZONTAL PEAK PLOT**



**VERTICAL PEAK PLOT**



**DATA**

Trace Markers

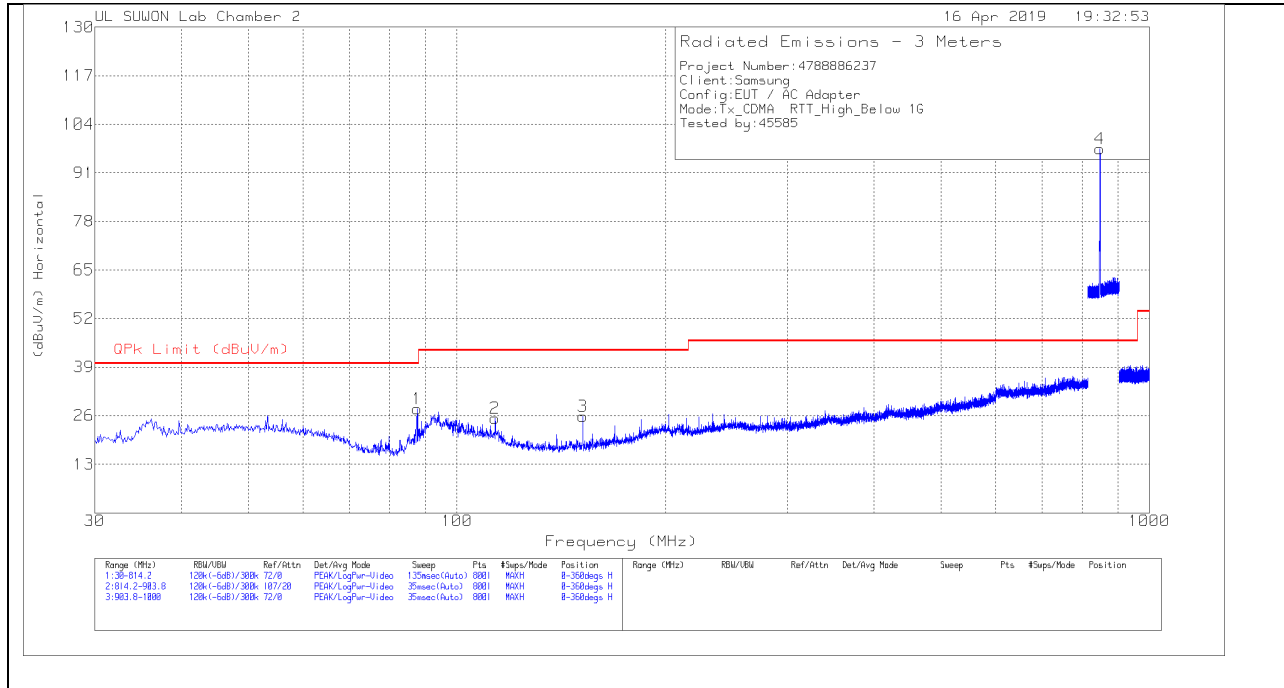
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	53.33	6.75	Pk	19.5	.8	27.05	40	-12.95	0-360	300	H
2	150.4727	10.78	Pk	14.1	1.3	26.18	43.52	-17.34	0-360	100	H
3	181.0565	11.35	Pk	15.9	1.4	28.65	43.52	-14.87	0-360	200	H
4	836.6336	72.46	Pk	27.1	3.1	102.66	46.02	56.64	0-360	100	H
5	36.1756	18.08	Pk	17.2	.6	35.88	40	-4.12	0-360	100	V
6	60.0937	11.48	Pk	18.5	.8	30.78	40	-9.22	0-360	100	V
7	184.6835	15.32	Pk	16.3	1.5	33.12	43.52	-10.4	0-360	100	V
8	836.0223	77.77	Pk	27.1	3.1	107.97	46.02	61.95	0-360	100	V

Pk - Peak detector

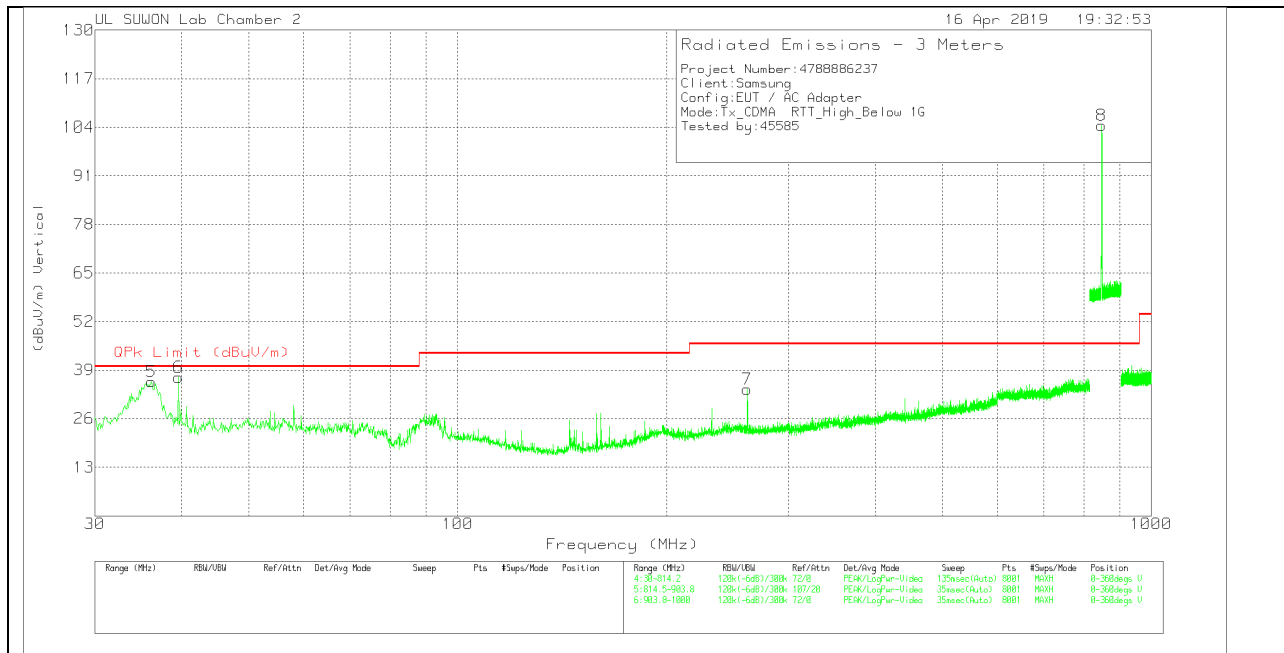
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

**HIGH CHANNEL(893.31MHz)**

**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	87.6387	12.17	Pk	14.6	1	27.77	40	-12.23	0-360	200	H
2	113.5173	7.64	Pk	16.5	1.2	25.34	43.52	-18.18	0-360	300	H
3	152.0411	10.43	Pk	14.1	1.3	25.83	43.52	-17.69	0-360	200	H
4	848.3824	66.78	Pk	27.4	3.2	97.38	46.02	51.36	0-360	100	H
5	36.1756	18.02	Pk	17.2	.6	35.82	40	-4.18	0-360	100	V
6	39.6065	17.77	Pk	18.6	.7	37.07	40	-2.93	0-360	100	V
7	261.6331	13.32	Pk	18.8	1.7	33.82	46.02	-12.2	0-360	200	V
8	848.6141	73.84	Pk	27.4	3.2	104.44	46.02	58.42	0-360	100	V

Pk - Peak detector

Radiated Emissions

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
39.6065	2.02	Qp	18.6	.7	21.32	40	-18.68	3	100	V

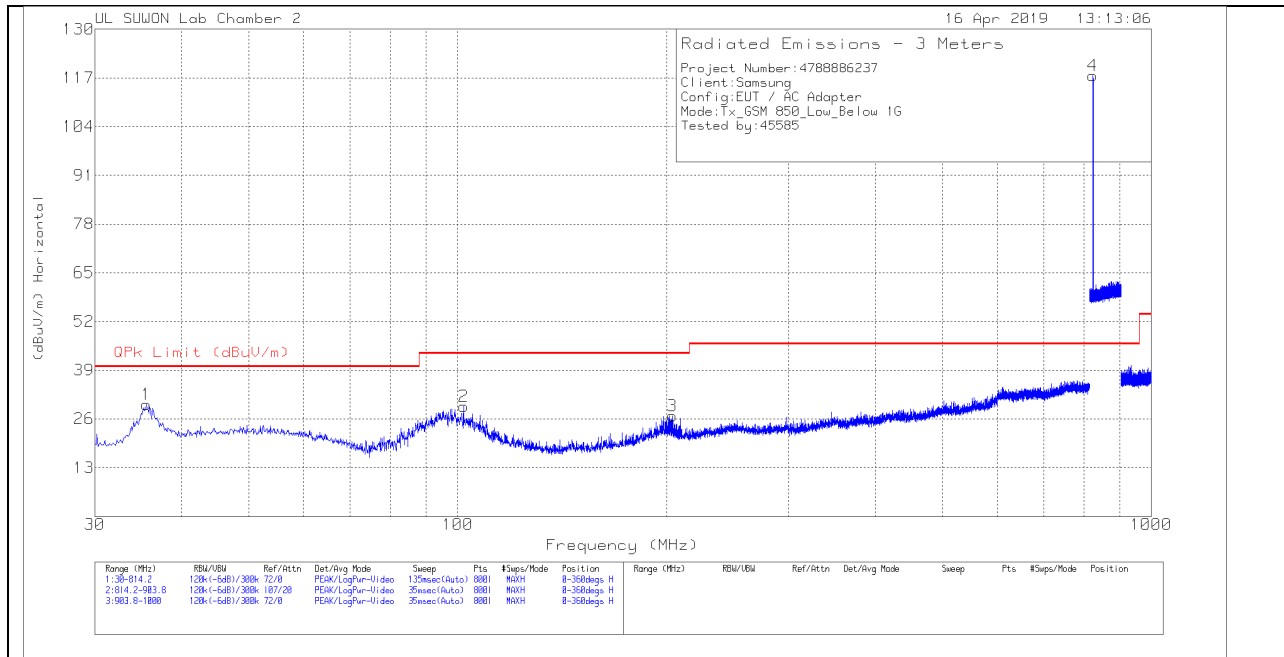
Qp - Quasi-Peak detector

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

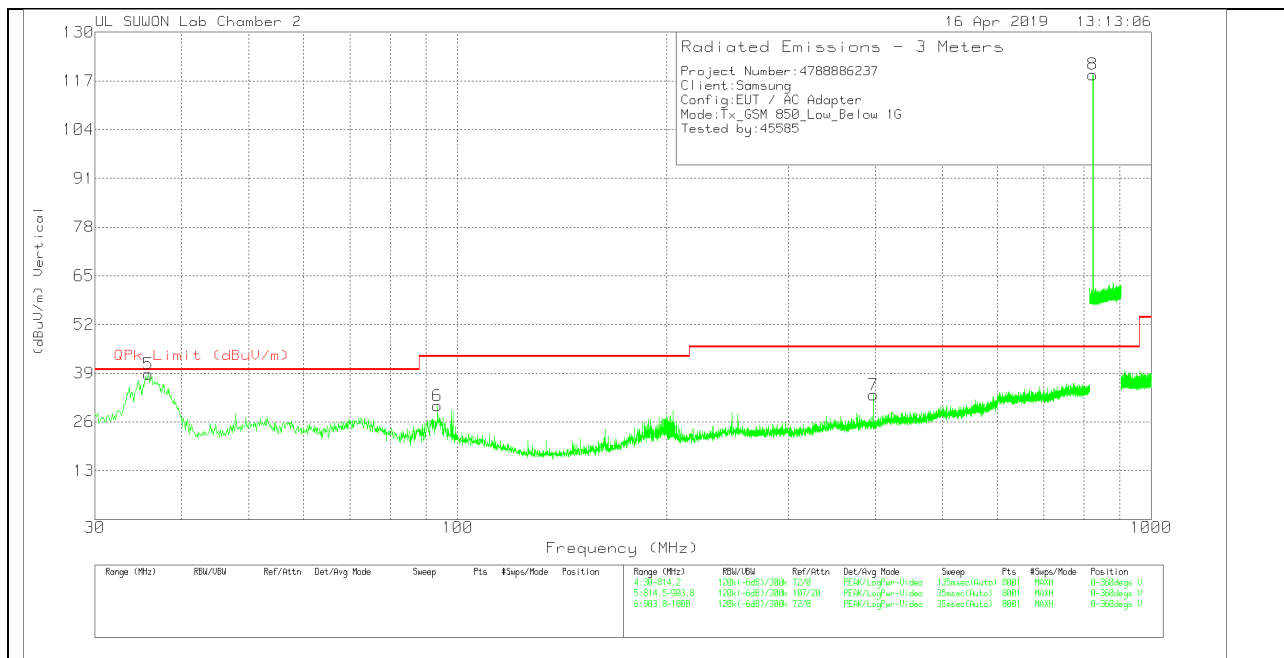
### 4.7. Below 1 GHz in the GSM850

#### 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	35.5874	12.2	Pk	16.9	.7	29.8	40	-10.2	0-360	400	H
2	101.9504	10.39	Pk	17.8	1.1	29.29	43.52	-14.23	0-360	300	H
3	203.9944	8.05	Pk	17.3	1.5	26.85	43.52	-16.67	0-360	100	H
4	824.1344	87.6	Pk	26.9	3.1	117.6	46.02	71.58	0-360	100	H
5	35.7835	21.2	Pk	17	.6	38.8	40	-1.2	0-360	100	V
6	93.5202	12.49	Pk	16.8	1.1	30.39	43.52	-13.13	0-360	100	V
7	397.4957	9.91	Pk	21.2	2.1	33.21	46.02	-12.81	0-360	100	V
8	824.1225	88.7	Pk	26.9	3.1	118.7	46.02	72.68	0-360	100	V

Pk - Peak detector

Radiated Emissions

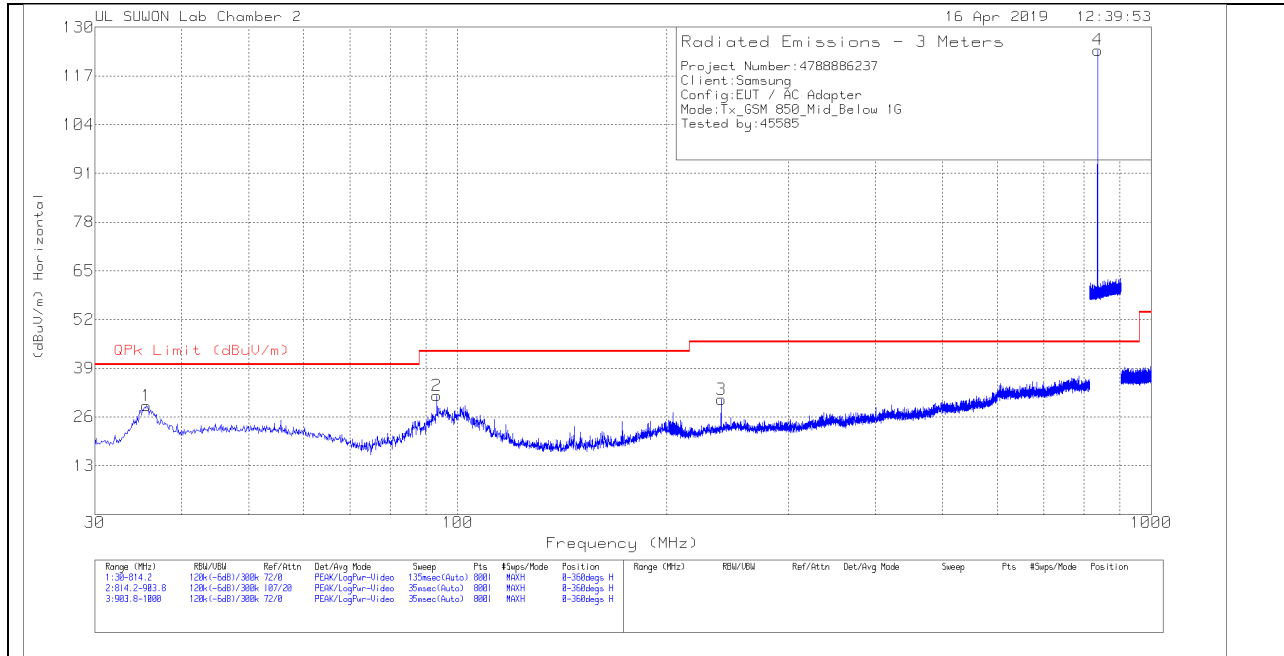
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
35.7835	15.69	Qp	17	.6	33.29	40	-6.71	234	100	V

Qp - Quasi-Peak detector

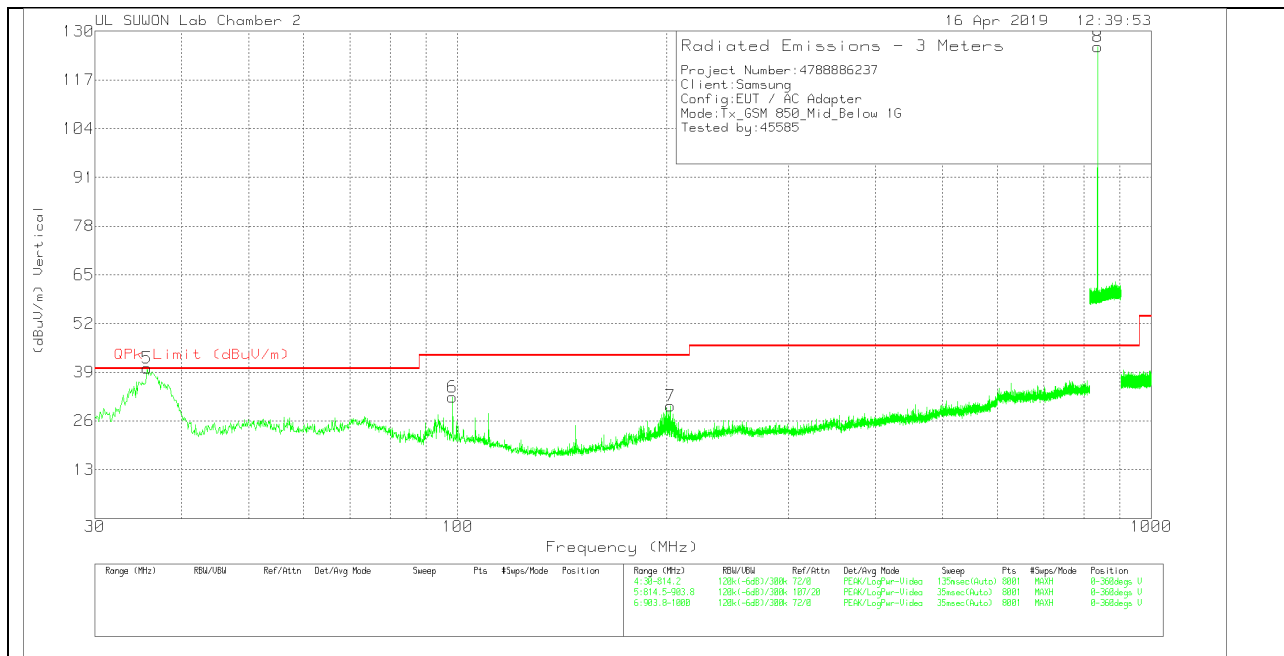
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

**MID CHANNEL(881.52MHz)**

**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	35.5874	11.46	Pk	16.9	.7	29.06	40	-10.94	0-360	300	H
2	93.3242	13.93	Pk	16.8	1	31.73	43.52	-11.79	0-360	300	H
3	239.7735	10.47	Pk	18.5	1.7	30.67	46.02	-15.35	0-360	100	H
4	836.5216	93.71	Pk	27.1	3.1	123.91	46.02	77.89	0-360	100	H
5	35.6855	22.5	Pk	17	.6	40.1	40	.1	0-360	100	V
6	98.3234	13.72	Pk	17.6	1	32.32	43.52	-11.2	0-360	100	V
7	202.7201	10.91	Pk	17.6	1.5	30.01	43.52	-13.51	0-360	100	V
8	836.5358	95.69	Pk	27.1	3.1	125.89	46.02	79.87	0-360	100	V

Pk - Peak detector

Radiated Emissions

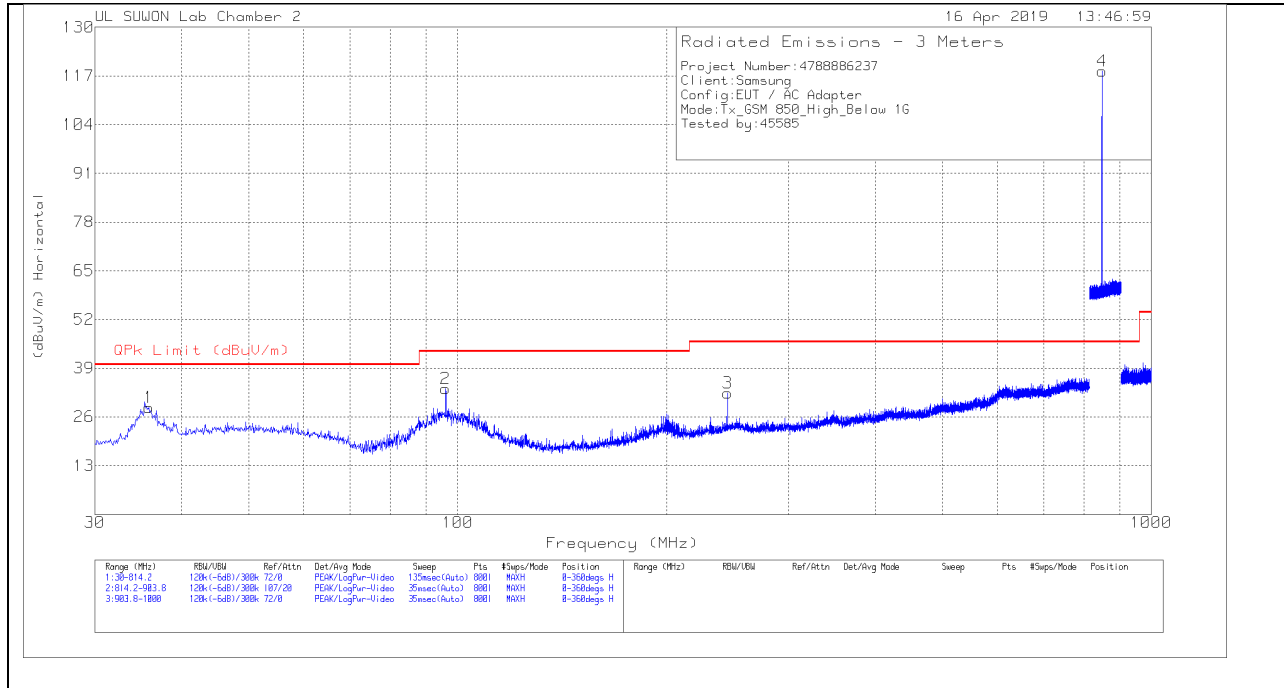
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
35.6855	15.68	Qp	17	.6	33.28	40	-6.72	206	117	V

Qp - Quasi-Peak detector

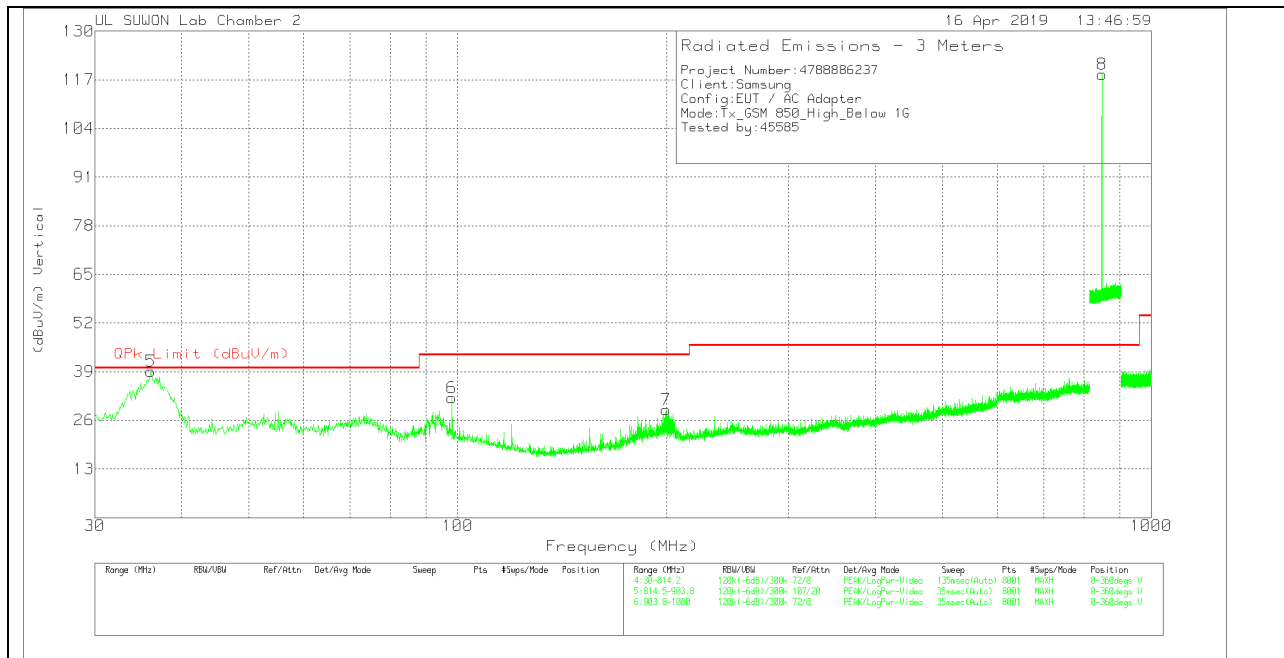
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

**HIGH CHANNEL(893.31MHz)**

**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	35.8815	10.77	Pk	17.1	.7	28.57	40	-11.43	0-360	200	H
2	96.0689	15.15	Pk	17.4	1	33.55	43.52	-9.97	0-360	400	H
3	244.9688	11.91	Pk	18.8	1.7	32.41	46.02	-13.61	0-360	200	H
4	848.7408	87.69	Pk	27.4	3.2	118.29	46.02	72.27	0-360	100	H
5	36.0776	21.33	Pk	17.1	.6	39.03	40	-9.97	0-360	100	V
6	98.1274	13.29	Pk	17.6	1.1	31.99	43.52	-11.53	0-360	100	V
7	199.7793	9.23	Pk	18.1	1.5	28.83	43.52	-14.69	0-360	200	V
8	848.7816	87.83	Pk	27.4	3.2	118.43	46.02	72.41	0-360	100	V

Pk - Peak detector

Radiated Emissions

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
36.0776	13.78	Qp	17.1	.6	31.48	40	-8.52	263	158	V

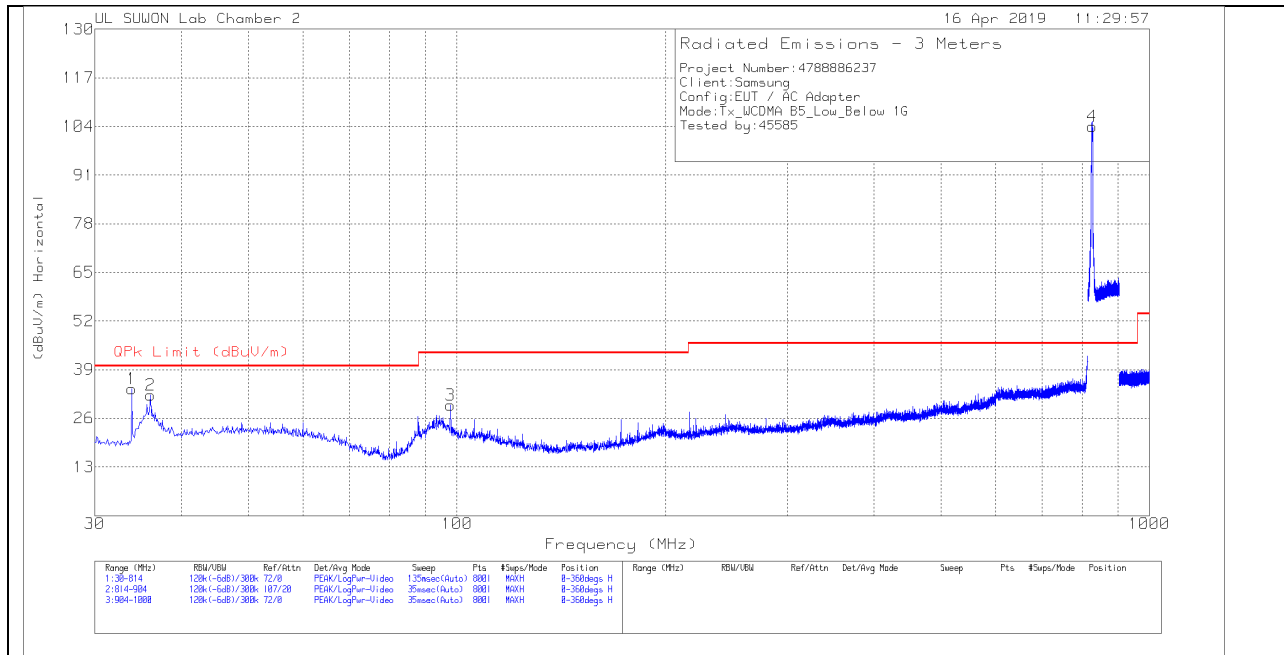
Qp - Quasi-Peak detector

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

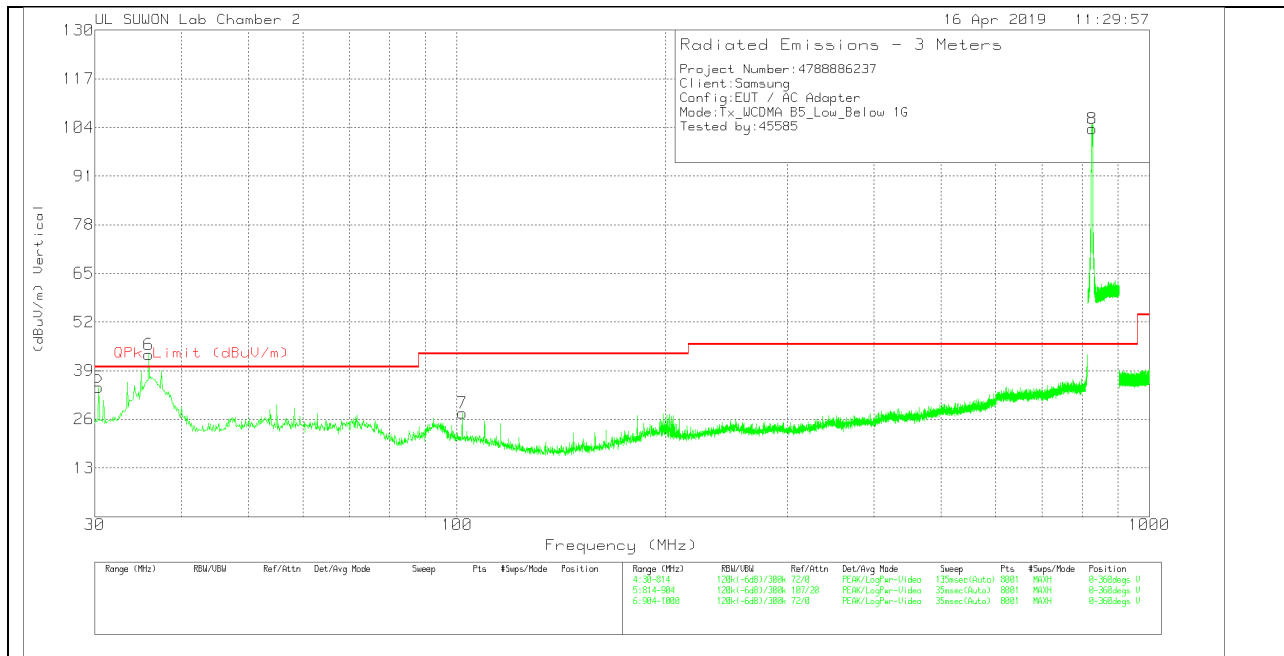
### 4.8. Below 1 GHz in the WCDMA Band 5

#### 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	33.92	17.21	Pk	16	.7	33.91	40	-6.09	0-360	200	H
2	36.076	14.56	Pk	17.1	.6	32.26	40	-7.74	0-360	200	H
3	97.816	10.87	Pk	17.6	1.1	29.57	43.52	-13.95	0-360	100	H
4	826.9938	73.87	Pk	27	3.1	103.97	46.02	57.95	0-360	100	H
5	30.392	18.1	Pk	15.8	.6	34.5	40	-5.5	0-360	100	V
6	35.88	25.51	Pk	17.1	.7	43.31	40	3.31	0-360	200	V
7	101.736	8.82	Pk	17.8	1.1	27.72	43.52	-15.8	0-360	100	V
8	826.4088	73.61	Pk	27	3.1	103.71	46.02	57.69	0-360	100	V

Pk - Peak detector

Radiated Emissions

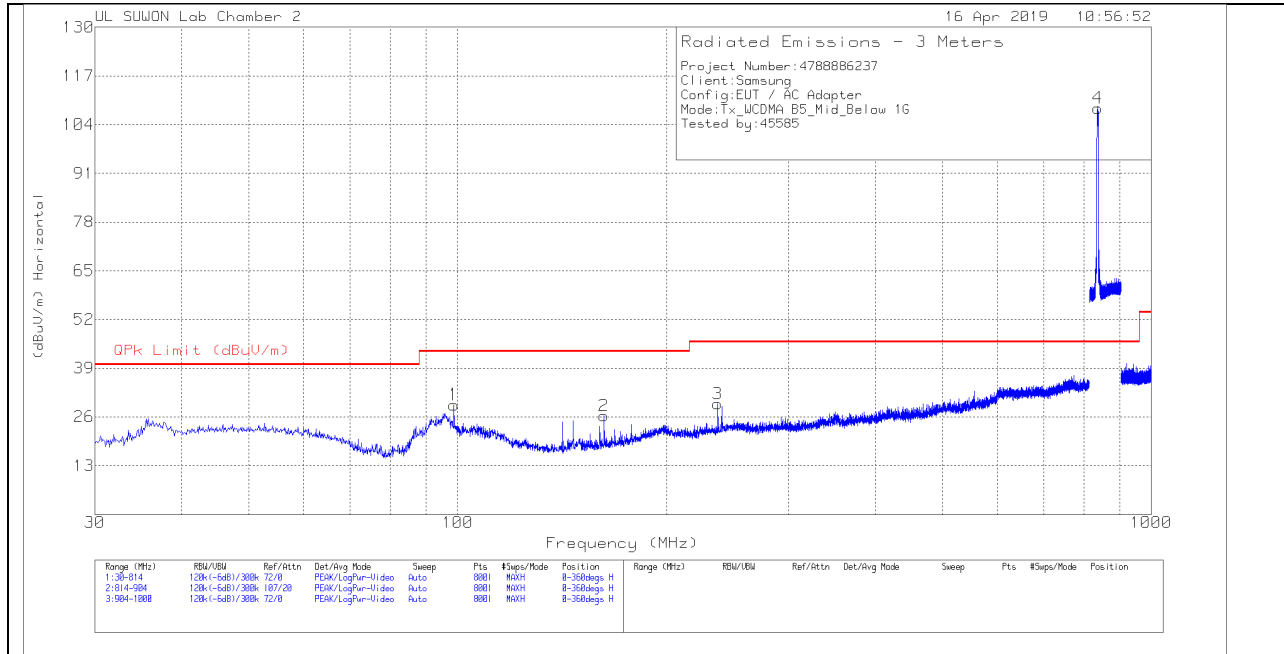
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
35.88	15.67	Qp	17.1	.7	33.47	40	-6.53	230	107	V

Qp - Quasi-Peak detector

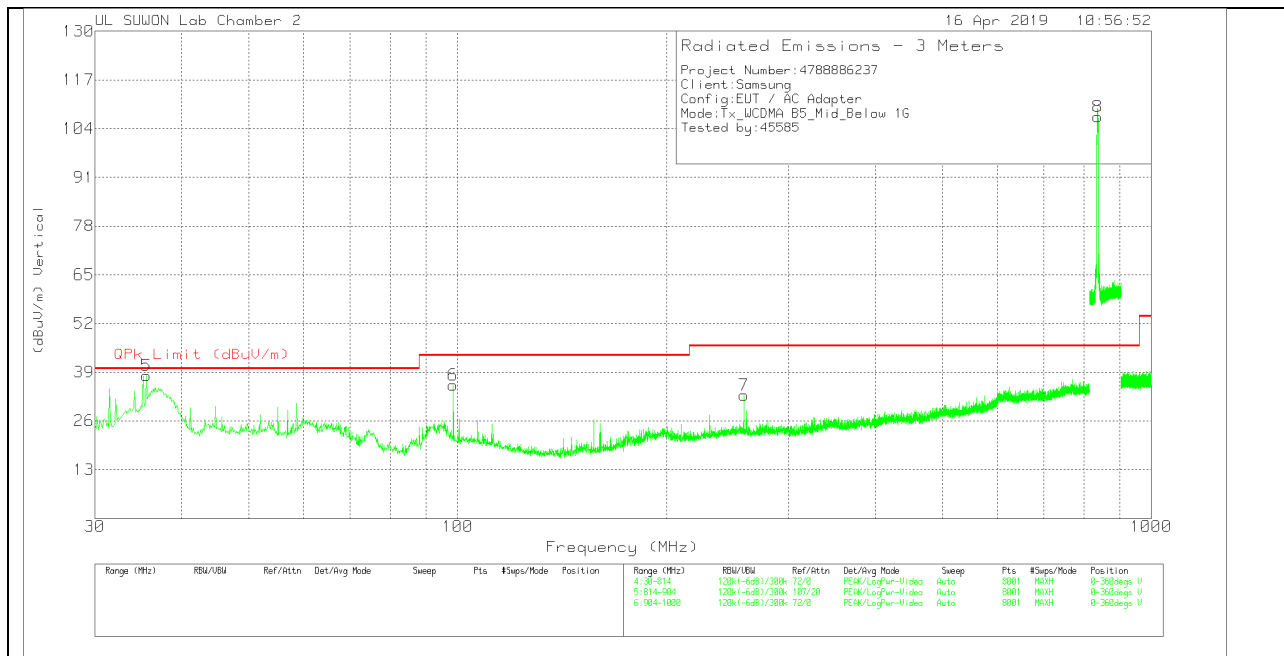
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

**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	98.796	10.45	Pk	17.7	1.1	29.25	43.52	-14.27	0-360	400	H
2	162.594	10.18	Pk	14.7	1.4	26.28	43.52	-17.24	0-360	200	H
3	237.172	9.65	Pk	18.3	1.6	29.55	46.02	-16.47	0-360	200	H
4	836.9613	78.24	Pk	27.1	3.1	108.44	46.02	62.42	0-360	100	H
5	35.586	20.54	Pk	16.9	.7	38.14	40	-1.86	0-360	300	V
6	98.502	16.76	Pk	17.7	1.1	35.56	43.52	-7.96	0-360	100	V
7	258.732	12.22	Pk	18.9	1.7	32.82	46.02	-13.2	0-360	100	V
8	837.085	76.93	Pk	27.1	3.1	107.13	46.02	61.11	0-360	100	V

Pk - Peak detector

Radiated Emissions

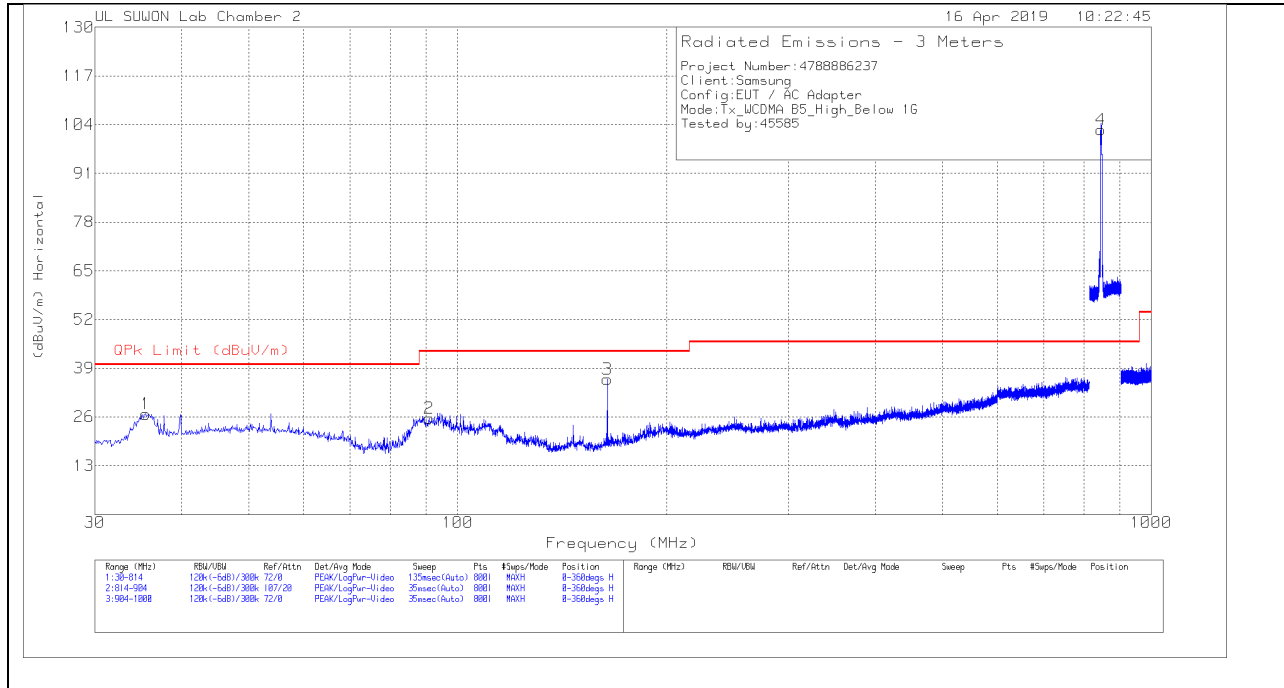
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
35.586	8.13	Qp	16.9	.7	25.73	40	-14.27	236	215	V

Qp - Quasi-Peak detector

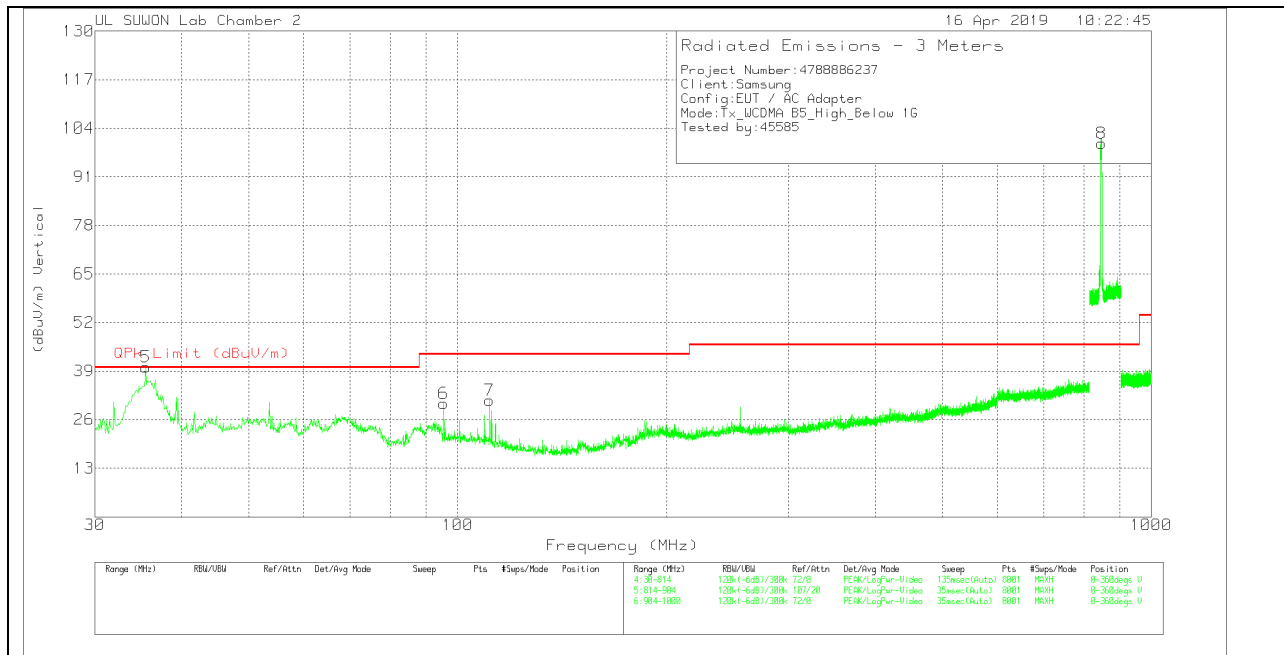
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

**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	35.488	9.14	Pk	16.9	.7	26.74	40	-13.26	0-360	300	H
2	91.054	8.7	Pk	16	1	25.7	43.52	-17.82	0-360	200	H
3	164.358	19.87	Pk	14.8	1.4	36.07	43.52	-7.45	0-360	100	H
4	846.7038	72.19	Pk	27.3	3.2	102.69	46.02	56.67	0-360	100	H
5	35.488	22.53	Pk	16.9	.7	40.13	40	.13	0-360	200	V
6	95.464	12.02	Pk	17.3	1.1	30.42	43.52	-13.1	0-360	100	V
7	111.144	13.14	Pk	16.9	1.1	31.14	43.52	-12.38	0-360	200	V
8	847.0413	69.49	Pk	27.3	3.2	99.99	46.02	53.97	0-360	200	V

Pk - Peak detector

Radiated Emissions

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
35.488	15.09	Qp	16.9	.7	32.69	40	-7.31	229	158	V

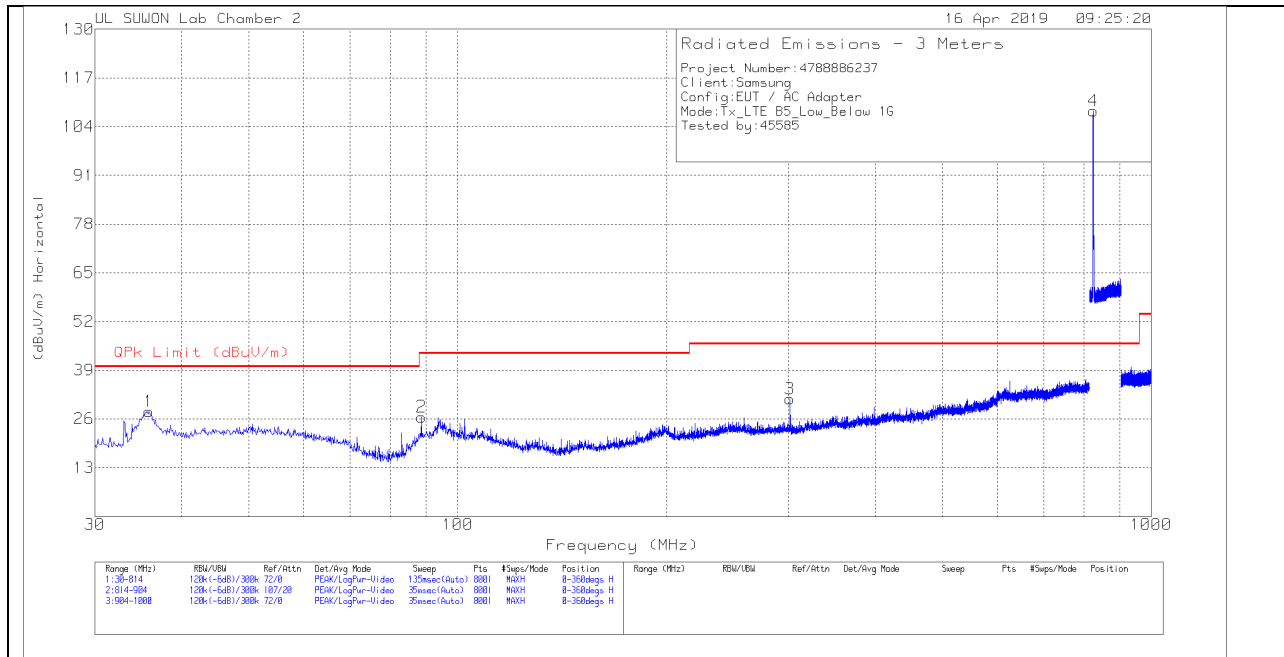
Qp - Quasi-Peak detector

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

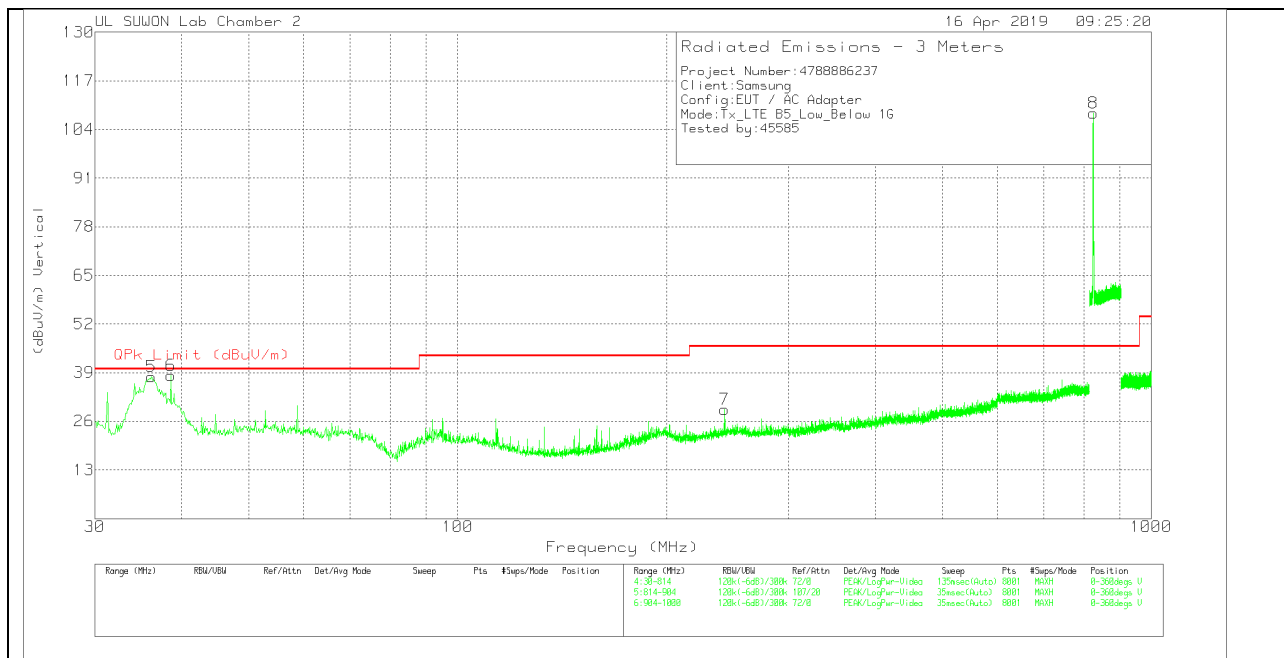
### 4.9. Below 1 GHz in the LTE Band 5

#### 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	35.88	10.27	Pk	17.1	.7	28.07	40	-11.93	0-360	300	H
2	88.702	10.46	Pk	15.1	1	26.56	43.52	-16.96	0-360	200	H
3	301.558	10.09	Pk	19.3	1.9	31.29	46.02	-14.73	0-360	300	H
4	824.6988	78.12	Pk	26.9	3.1	108.12	46.02	62.1	0-360	100	H
5	36.174	20.05	Pk	17.2	.6	37.85	40	-2.15	0-360	100	V
6	38.624	19.31	Pk	18.2	.7	38.21	40	-1.79	0-360	100	V
7	242.66	8.73	Pk	18.7	1.7	29.13	46.02	-16.89	0-360	100	V
8	824.8788	78.32	Pk	26.9	3.1	108.32	46.02	62.3	0-360	100	V

Pk - Peak detector

Radiated Emissions

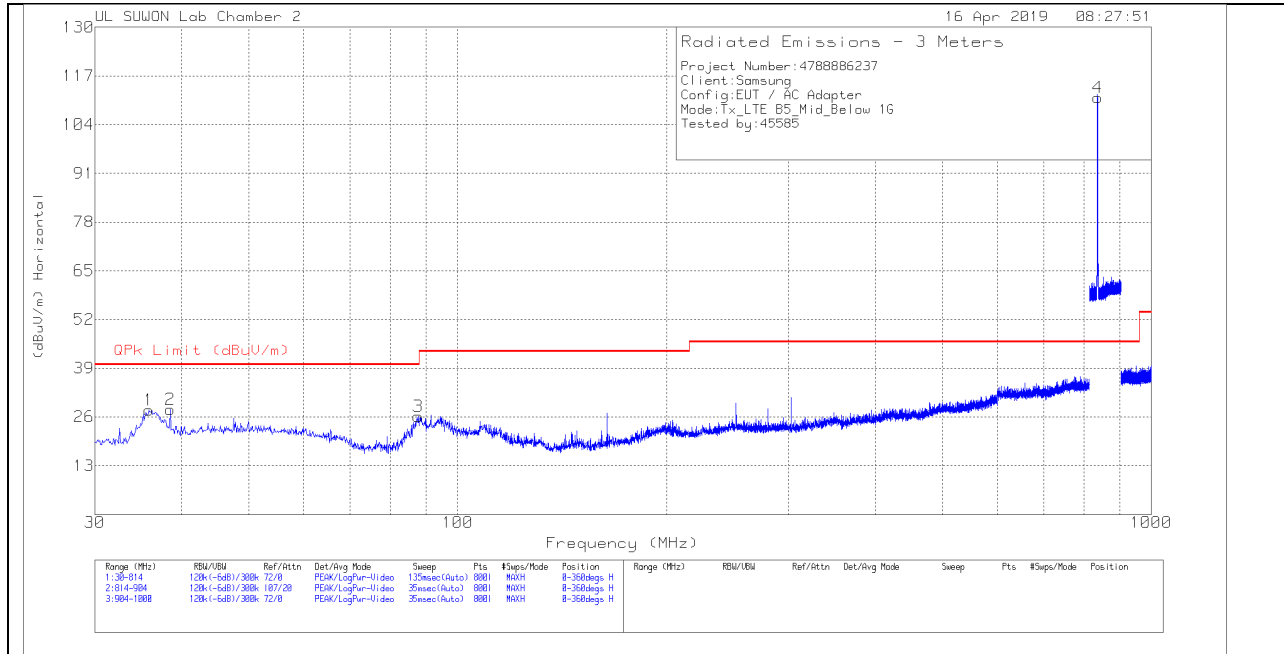
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
38.087	9.05	Qp	17.9	.7	27.65	40	-12.35	0	117	V
38.624	11.25	Qp	18.2	.7	30.15	40	-9.85	0	105	V

Qp - Quasi-Peak detector

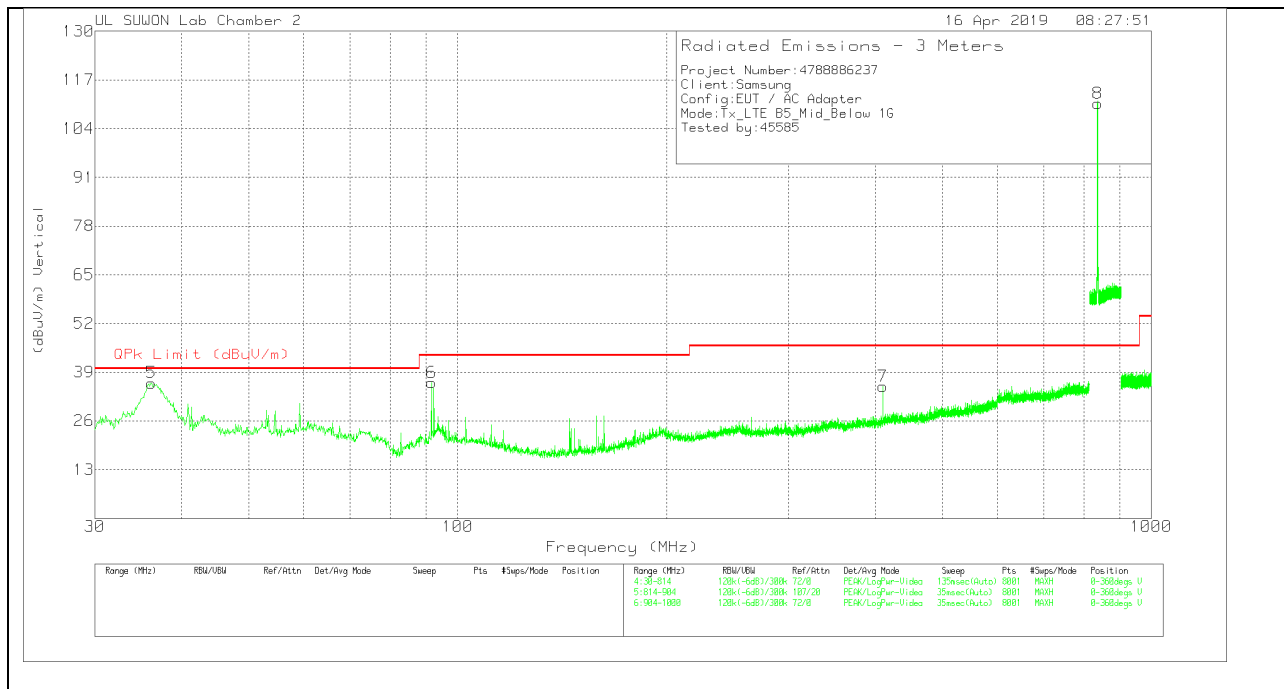
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

**MID CHANNEL(881.5MHz)**

**HORIZONTAL PEAK PLOT**



**VERTICAL PEAK PLOT**





**DATA**

Trace Markers

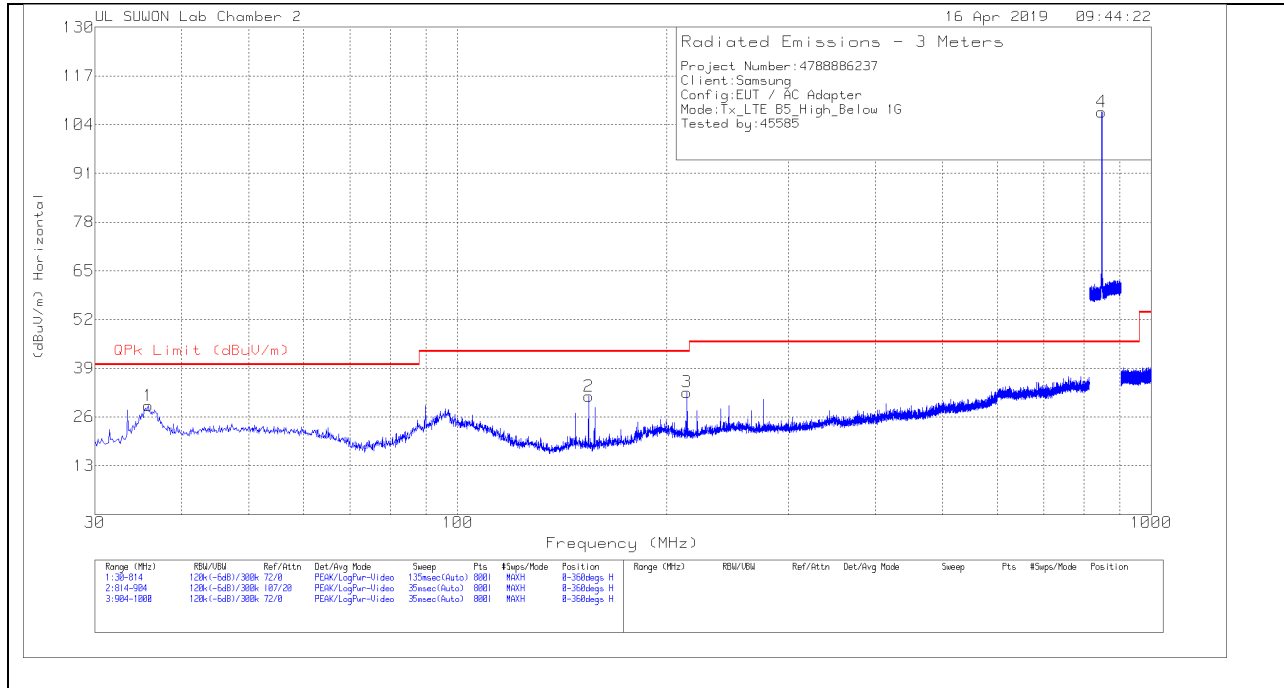
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	35.88	10.05	Pk	17.1	.7	27.85	40	-12.15	0-360	200	H
2	38.526	9.06	Pk	18.2	.7	27.96	40	-12.04	0-360	200	H
3	87.722	10.52	Pk	14.7	1	26.22	40	-13.78	0-360	200	H
4	836.5113	80.97	Pk	27.1	3.1	111.17	46.02	65.15	0-360	100	H
5	36.174	18.35	Pk	17.2	.6	36.15	40	-3.85	0-360	100	V
6	91.74	18.97	Pk	16.3	1	36.27	43.52	-7.25	0-360	100	V
7	410.338	11.28	Pk	21.7	2.2	35.18	46.02	-10.84	0-360	100	V
8	836.4888	80.51	Pk	27.1	3.1	110.71	46.02	64.69	0-360	100	V

Pk - Peak detector

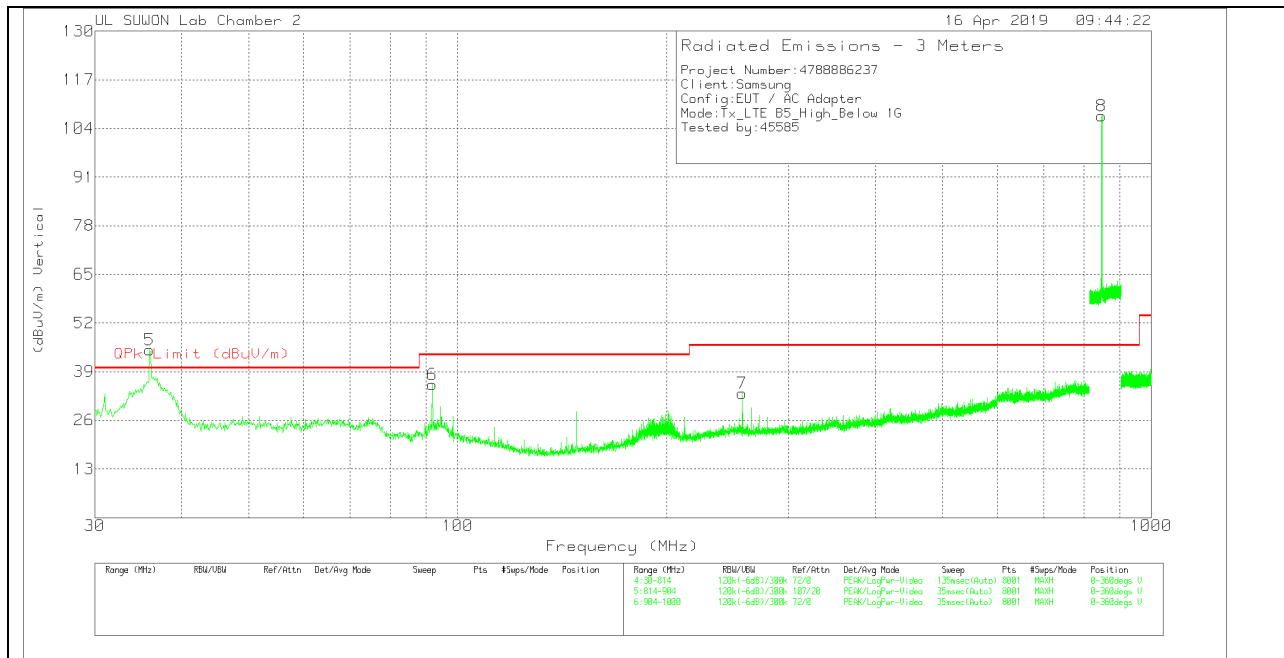
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

**HIGH CHANNEL(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	35.782	11.38	Pk	17	.6	28.98	40	-11.02	0-360	300	H
2	154.46	15.93	Pk	14.2	1.4	31.53	43.52	-11.99	0-360	200	H
3	214.142	13.92	Pk	17.1	1.6	32.62	43.52	-10.9	0-360	100	H
4	848.47	76.83	Pk	27.4	3.2	107.43	46.02	61.41	0-360	100	H
5	35.978	27.07	Pk	17.1	.6	44.77	40	4.77	0-360	300	V
6	91.936	18.1	Pk	16.4	1	35.5	43.52	-8.02	0-360	100	V
7	257.36	12.46	Pk	19	1.7	33.16	46.02	-12.86	0-360	100	V
8	848.4475	76.73	Pk	27.4	3.2	107.33	46.02	61.31	0-360	100	V

Pk - Peak detector

Radiated Emissions

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
35.978	15.02	Qp	17.1	.6	32.72	40	-7.28	285	133	V

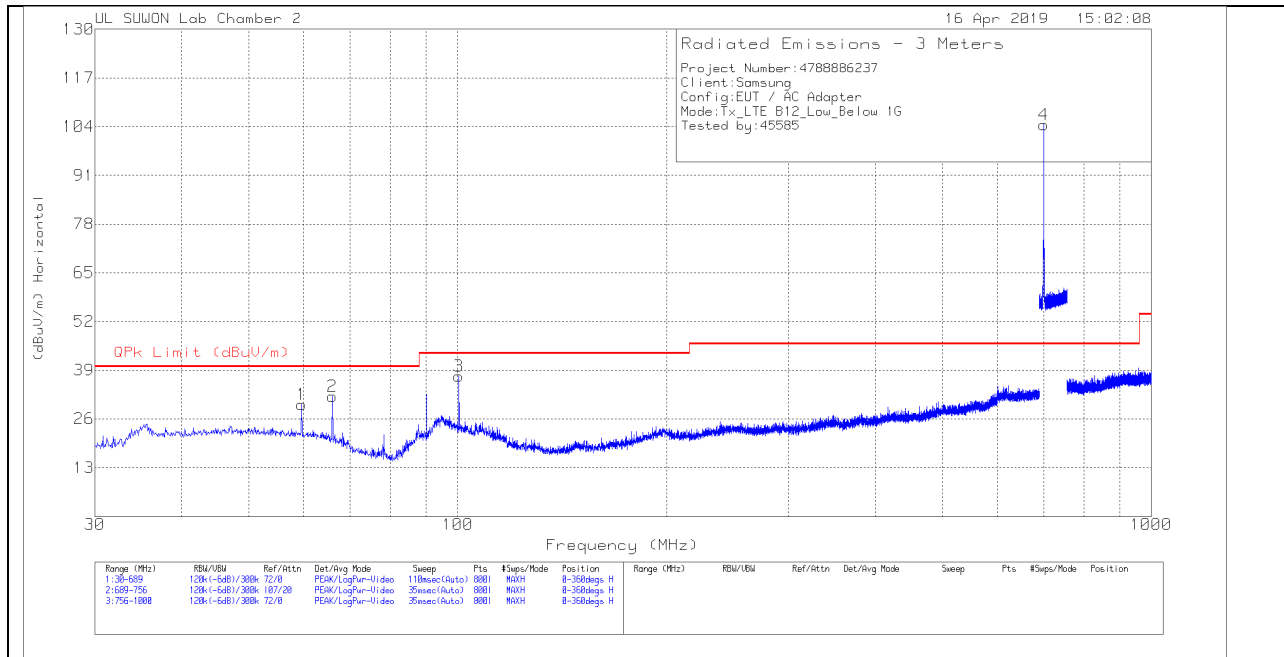
Qp - Quasi-Peak detector

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

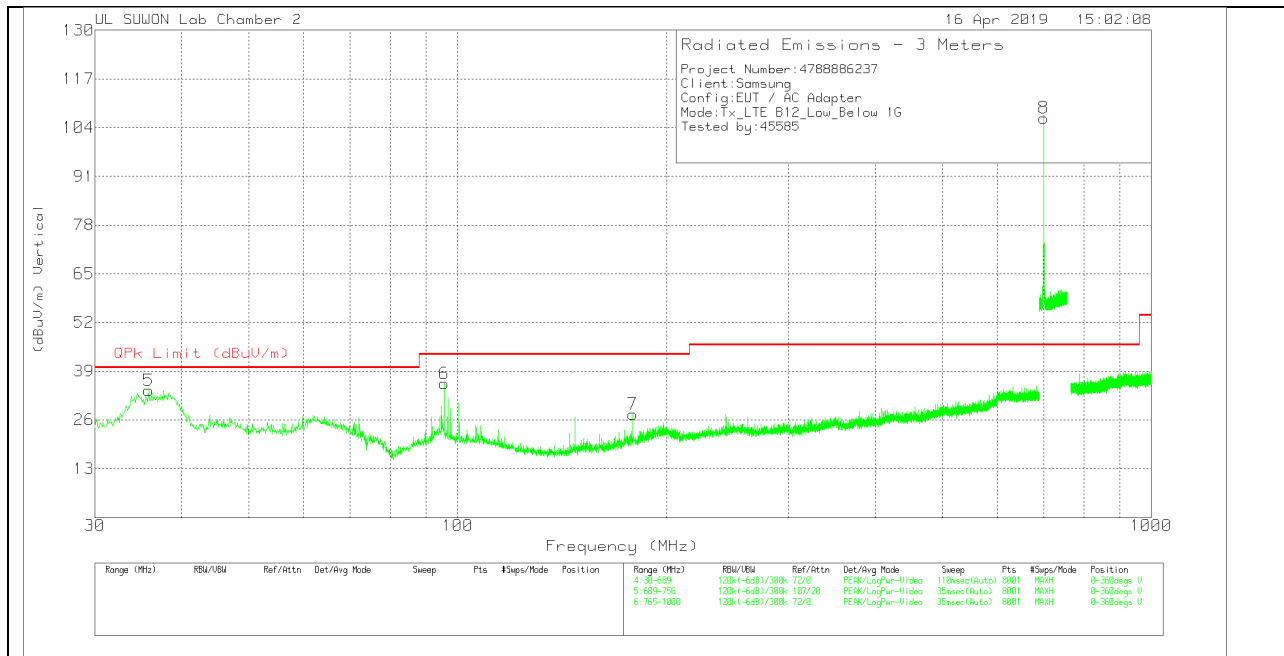
### 4.10. Below 1 GHz in the LTE Band 12

#### LOW CHANNEL(730.5MHz)

#### HORIZONTAL PEAK PLOT



#### VERTICAL PEAK PLOT



**DATA**

Trace Markers

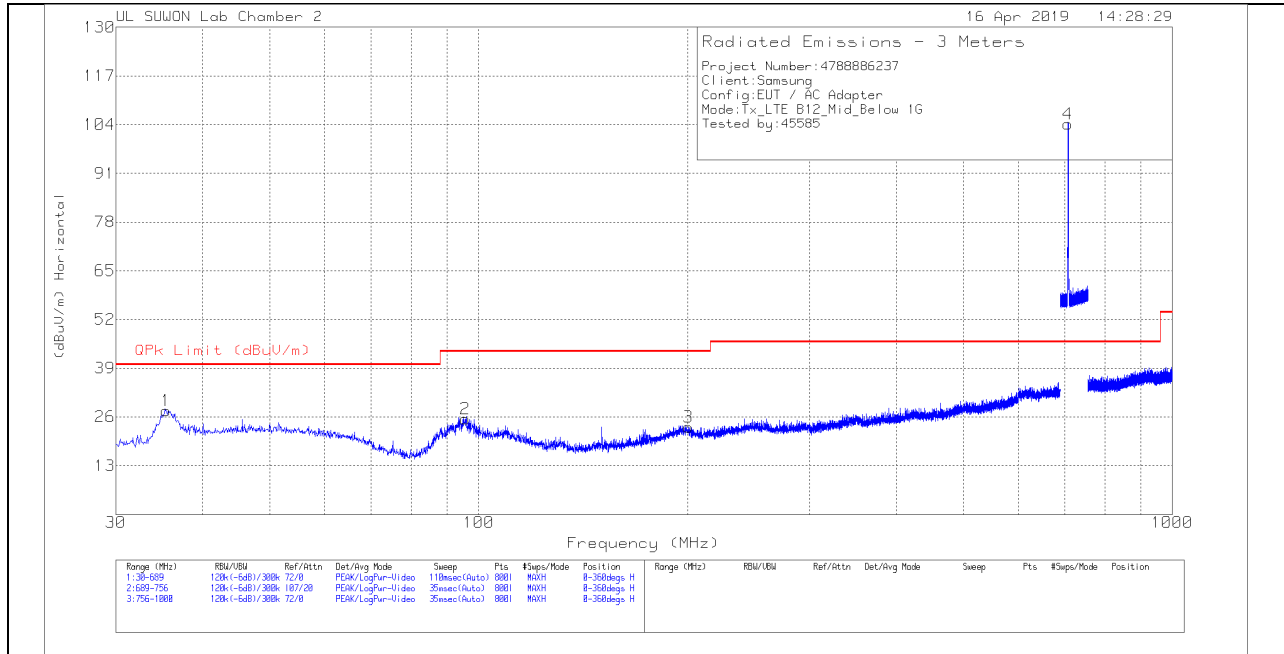
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	59.5726	10.48	Pk	18.6	.8	29.88	40	-10.12	0-360	200	H
2	65.9979	14.16	Pk	16.9	.9	31.96	40	-8.04	0-360	200	H
3	100.4306	18.65	Pk	17.7	1.1	37.45	43.52	-6.07	0-360	200	H
4	699.787	75.95	Pk	25.6	2.9	104.45	46.02	58.43	0-360	200	H
5	35.8486	16.21	Pk	17	.7	33.91	40	-6.09	0-360	100	V
6	95.6529	17.5	Pk	17.3	1	35.8	43.52	-7.72	0-360	100	V
7	178.7693	10.57	Pk	15.6	1.4	27.57	43.52	-15.95	0-360	200	V
8	699.6949	78.09	Pk	25.6	2.9	106.59	46.02	60.57	0-360	100	V

Pk - Peak detector

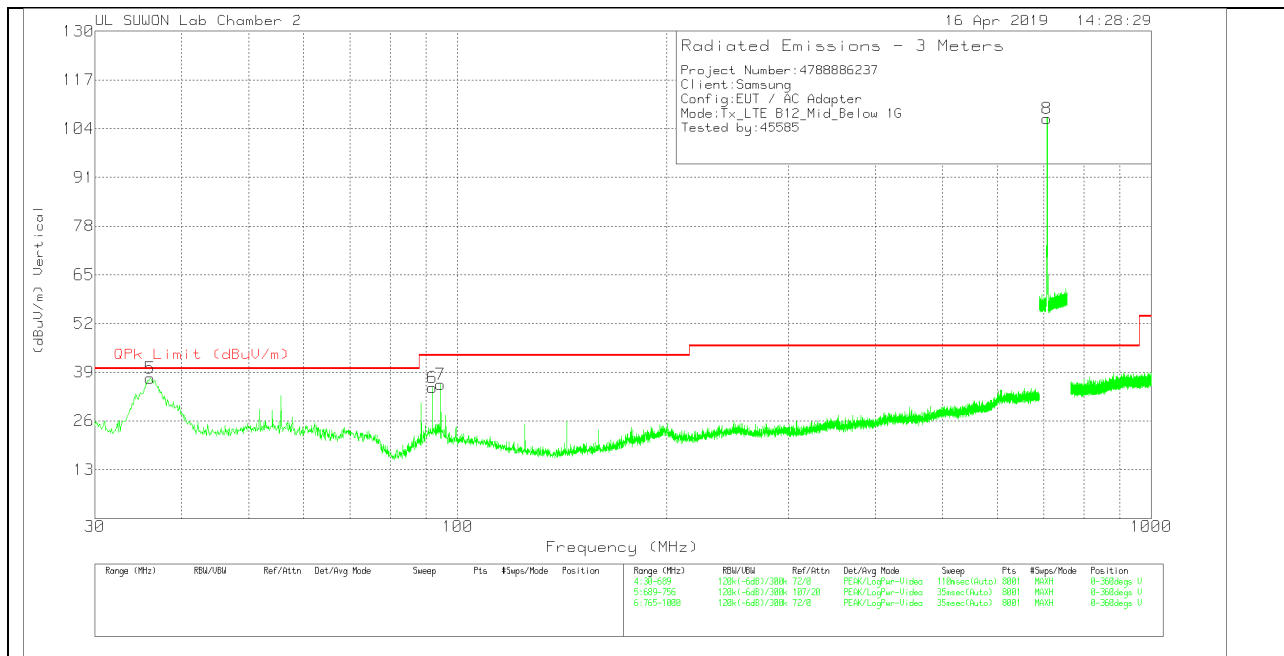
Note: Unwanted emissions captured from 699MHz to 716MHz and from 729MHz to 746MHz were the TX and RX signals generated from the call-simulator.

**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	35.4368	10.07	Pk	16.9	.7	27.67	40	-12.33	0-360	200	H
2	95.7353	7.19	Pk	17.3	1	25.49	43.52	-18.03	0-360	300	H
3	200.5986	3.91	Pk	17.9	1.5	23.31	43.52	-20.21	0-360	100	H
4	707.492	75.79	Pk	25.5	2.9	104.19	46.02	58.17	0-360	100	H
5	36.0134	19.75	Pk	17.1	.6	37.45	40	-2.55	0-360	100	V
6	91.946	17.54	Pk	16.4	1	34.94	43.52	-8.58	0-360	100	V
7	94.4996	17.46	Pk	17.1	1.1	35.66	43.52	-7.86	0-360	100	V
8	707.6763	78.34	Pk	25.5	2.9	106.74	46.02	60.72	0-360	100	V

Pk - Peak detector

Radiated Emissions

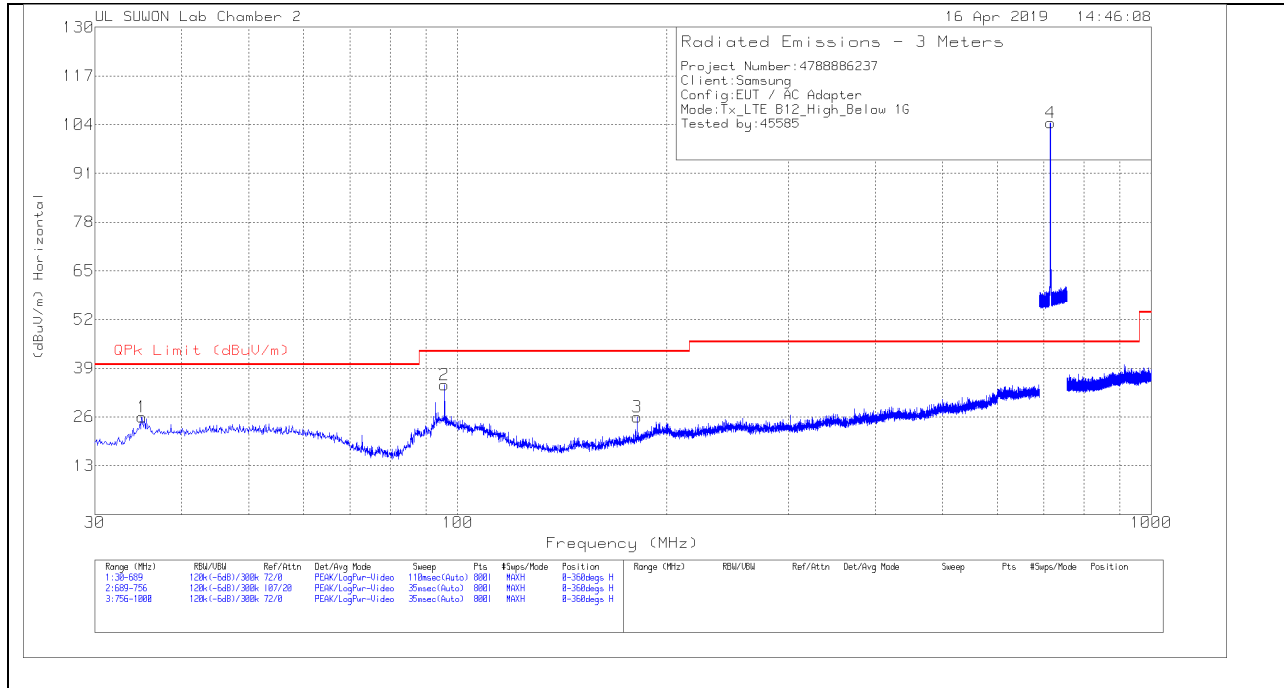
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
36.0134	15.99	Qp	17.1	.6	33.69	40	-6.31	222	101	V

Qp - Quasi-Peak detector

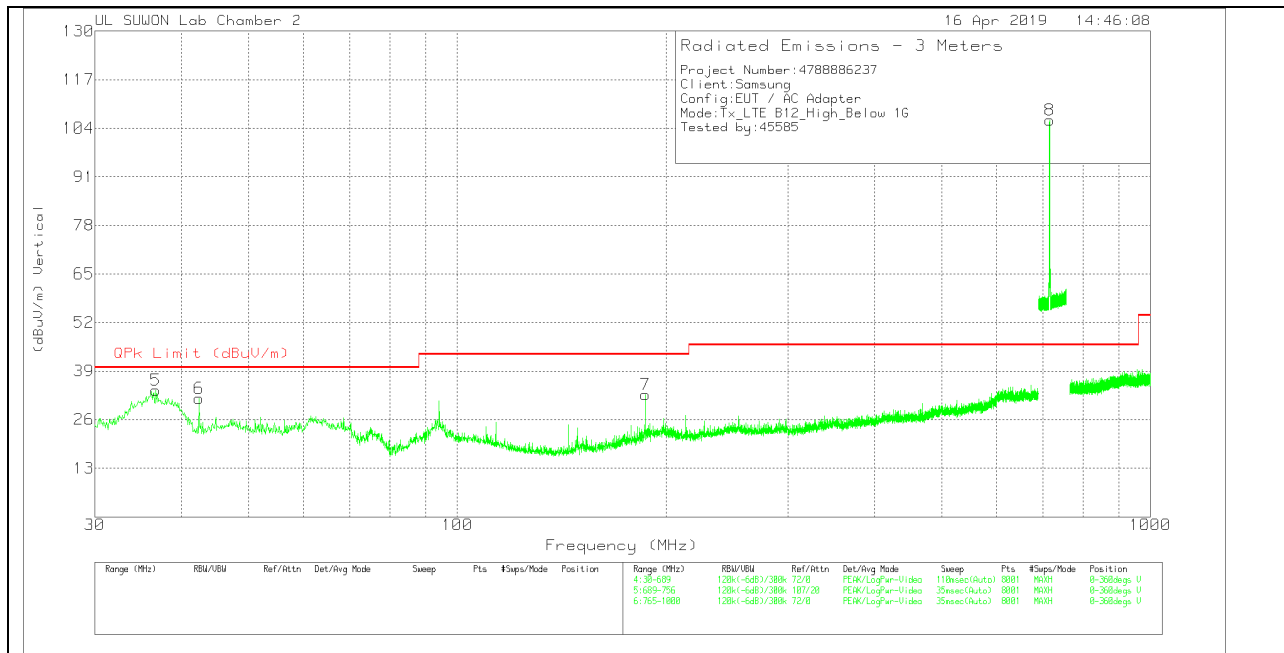
Note: Unwanted emissions captured from 699MHz to 716MHz and from 729MHz to 746MHz were the TX and RX signals generated from the call-simulator.

**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	35.1073	8.65	Pk	16.7	.6	25.95	40	-14.05	0-360	300	H
2	95.7353	16.3	Pk	17.3	1	34.6	43.52	-8.92	0-360	300	H
3	181.4876	8.57	Pk	15.9	1.5	25.97	43.52	-17.55	0-360	200	H
4	715.4566	75.84	Pk	25.7	2.9	104.44	46.02	58.42	0-360	200	H
5	36.7548	15.76	Pk	17.4	.7	33.86	40	-6.14	0-360	200	V
6	42.4386	11.62	Pk	19.3	.7	31.62	40	-8.38	0-360	100	V
7	186.842	14.63	Pk	16.6	1.5	32.73	43.52	-10.79	0-360	200	V
8	715.532	77.57	Pk	25.7	2.9	106.17	46.02	60.15	0-360	100	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.