

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

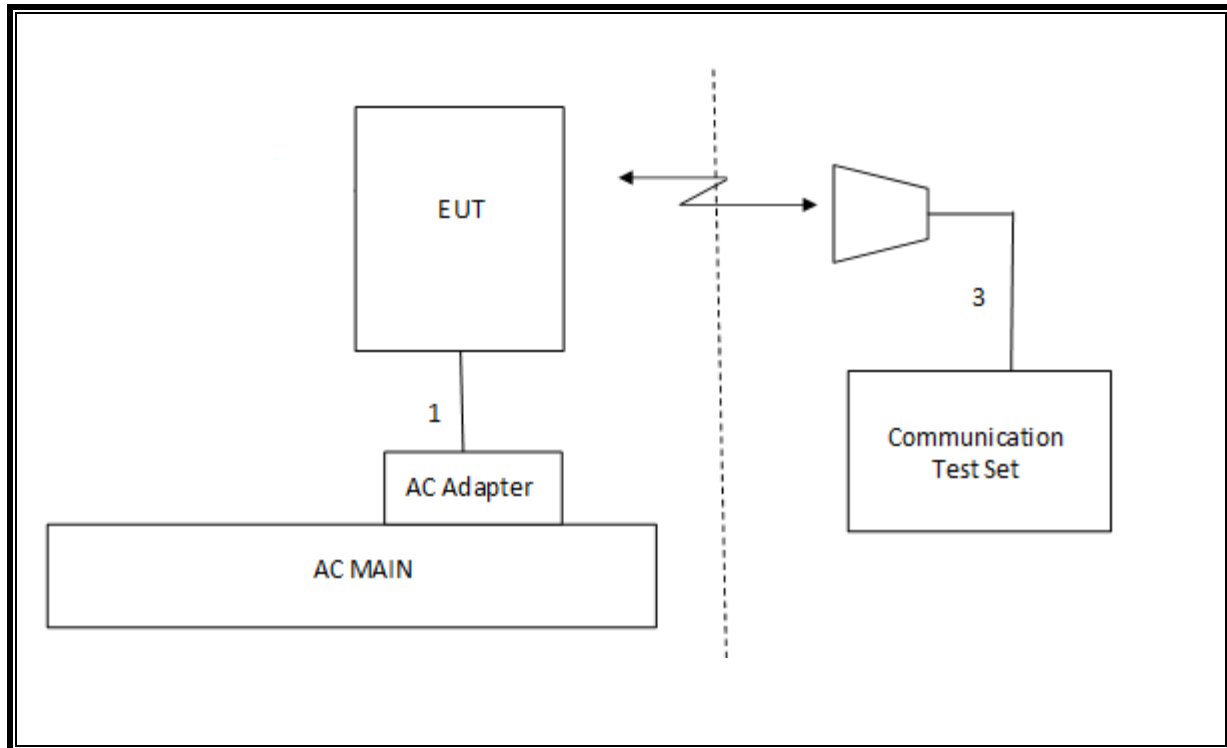
I/O CABLE

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

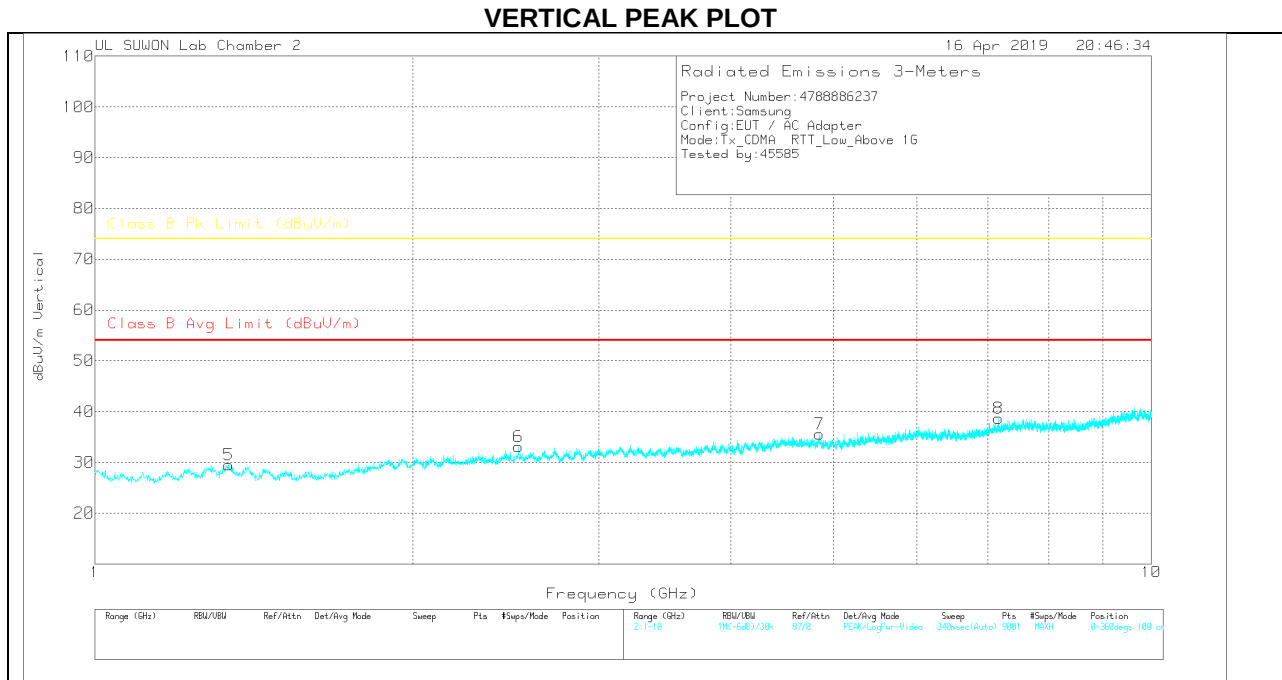
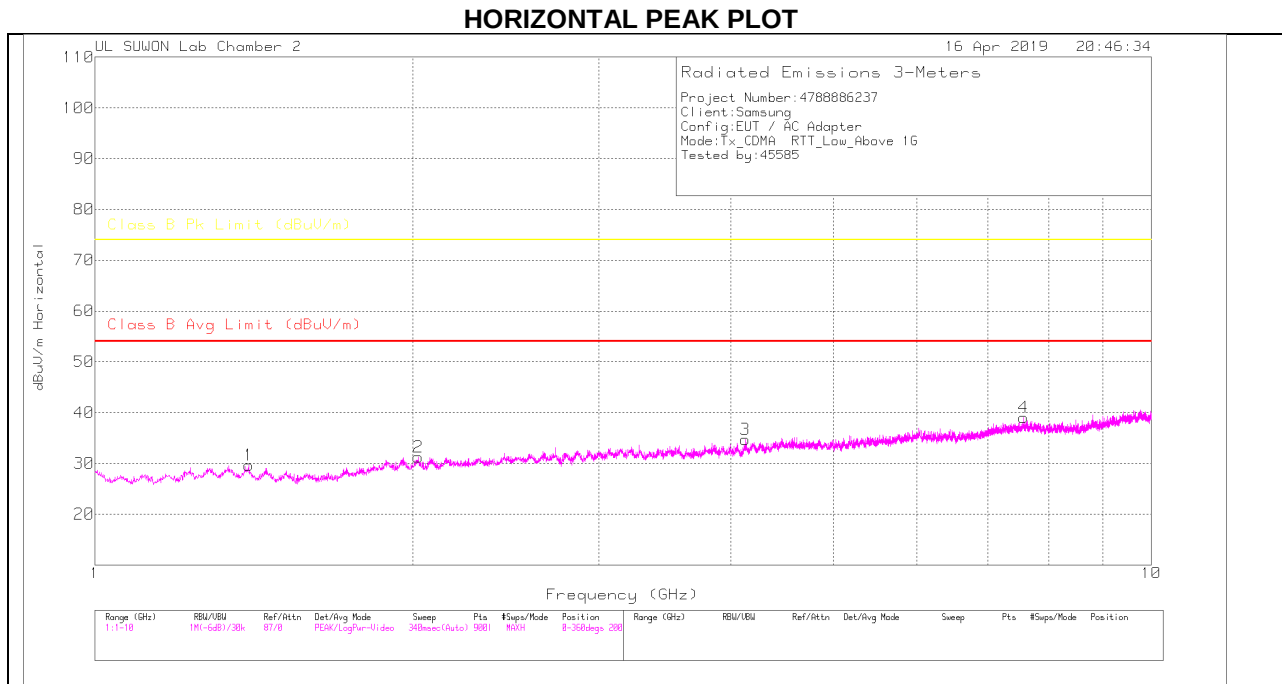
LIMIT

§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 (dBμV/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

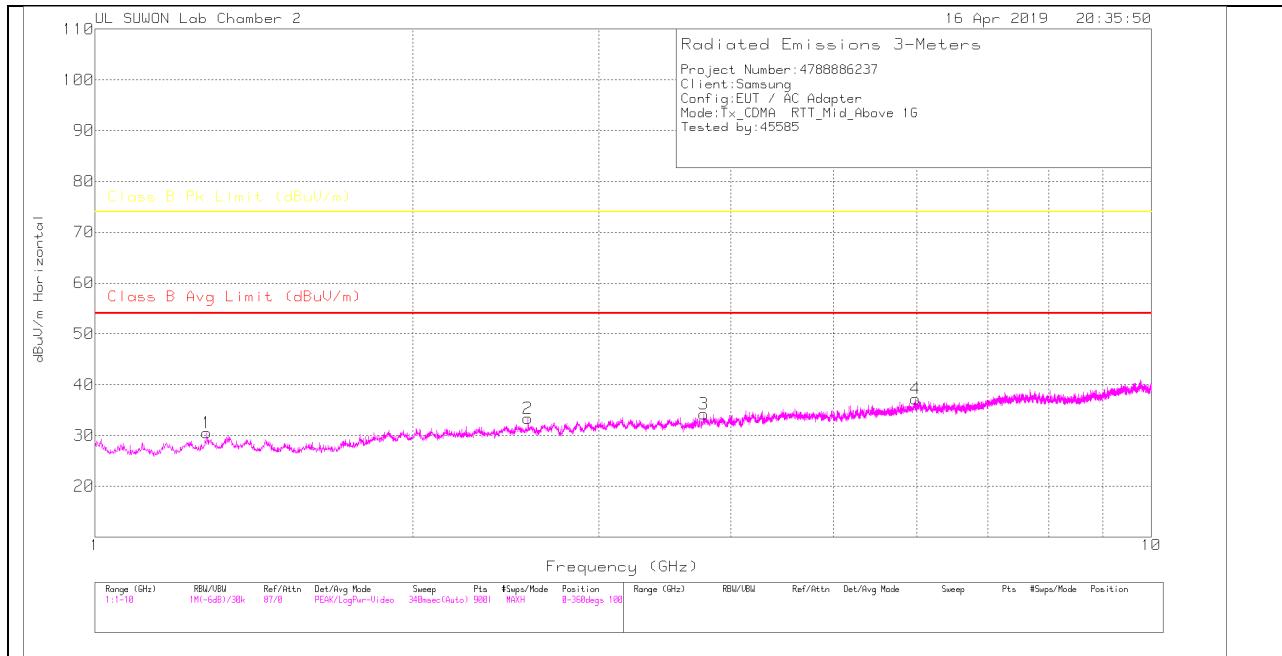
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSFR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.398	31.34	PK	29.4	-31.7	.6	29.64	-	-	74	-44.36	0-360	100	H
2	2.023	30.39	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

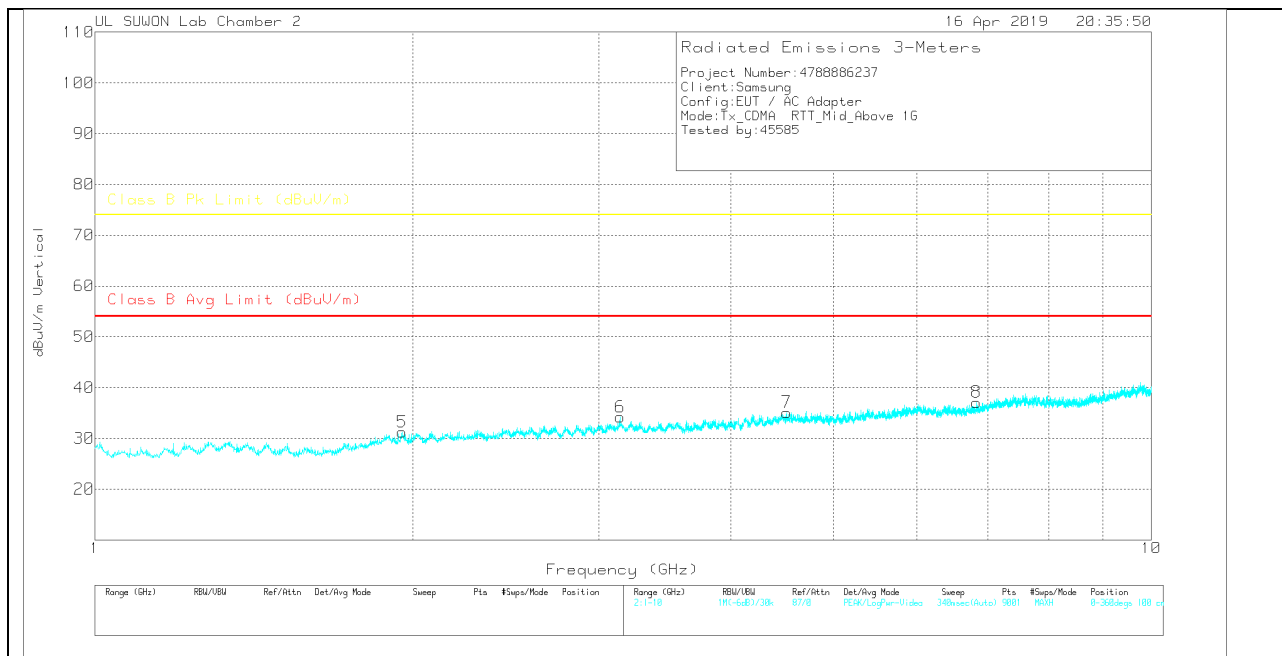
Note: Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

MID CHANNEL(881.52MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

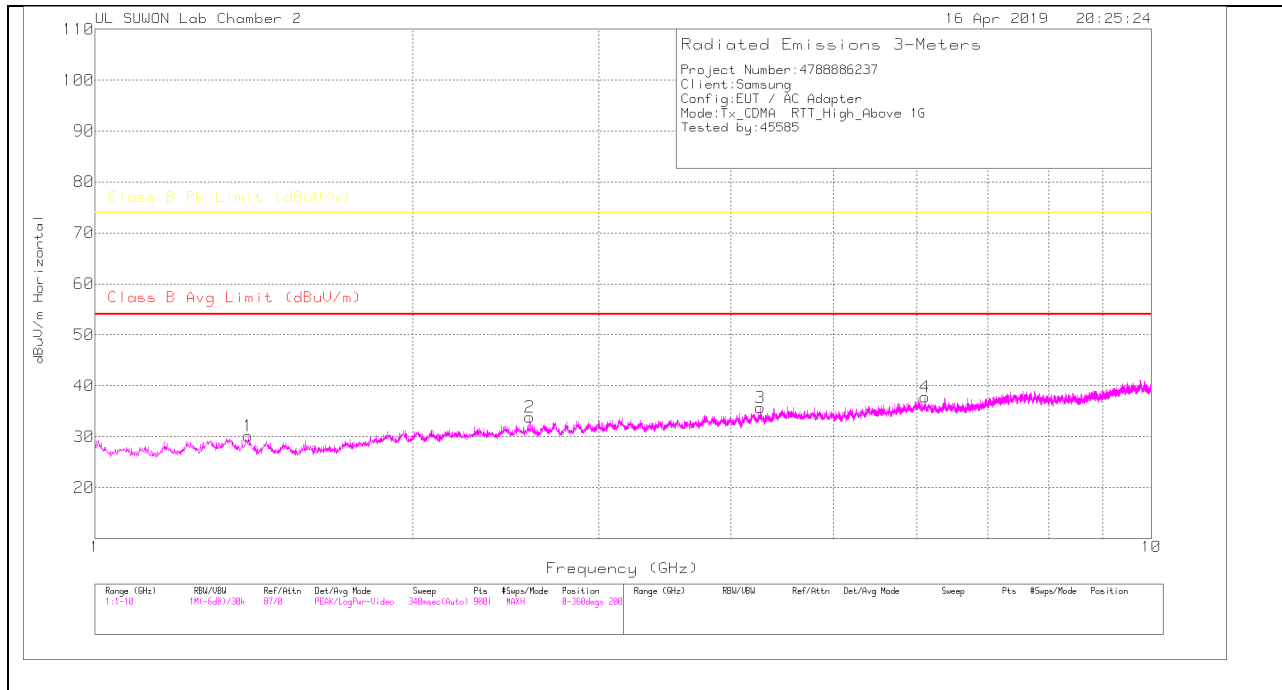
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSPP)/Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.276	32.19	PK	29.5	-31.9	.7	30.49	-	-	74	-43.51	0-360	200	H
2	2.57	30.98	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

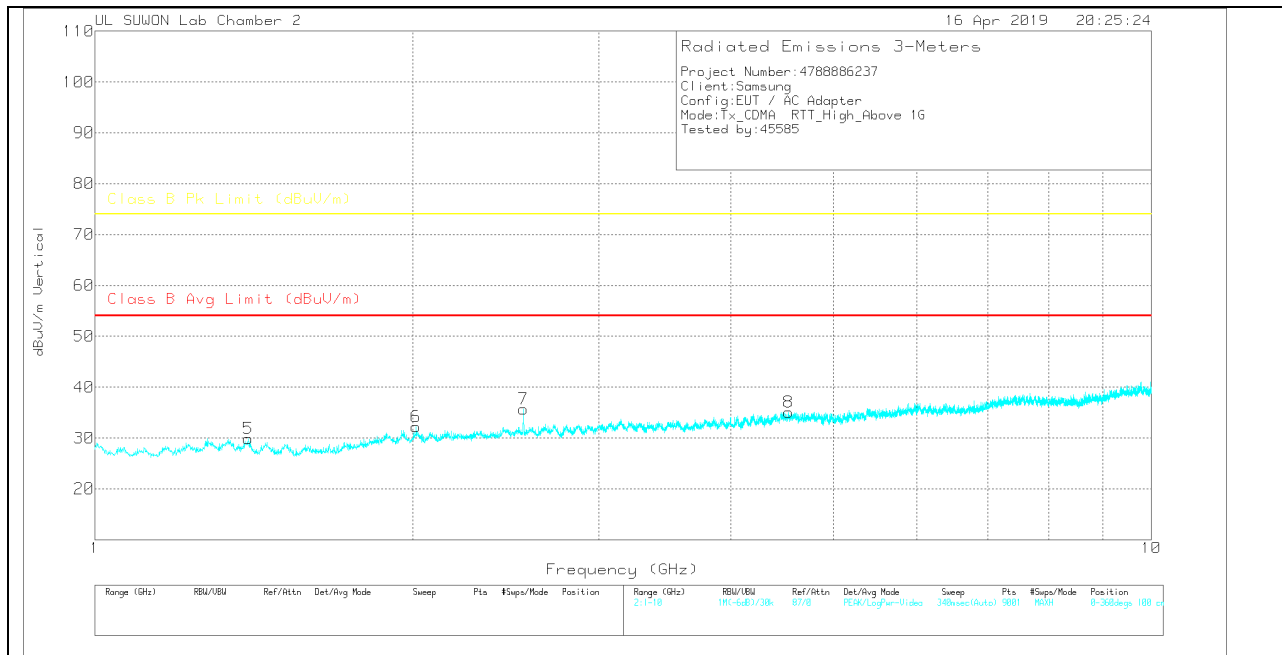
Note: Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

HIGH CHANNEL(893.31MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

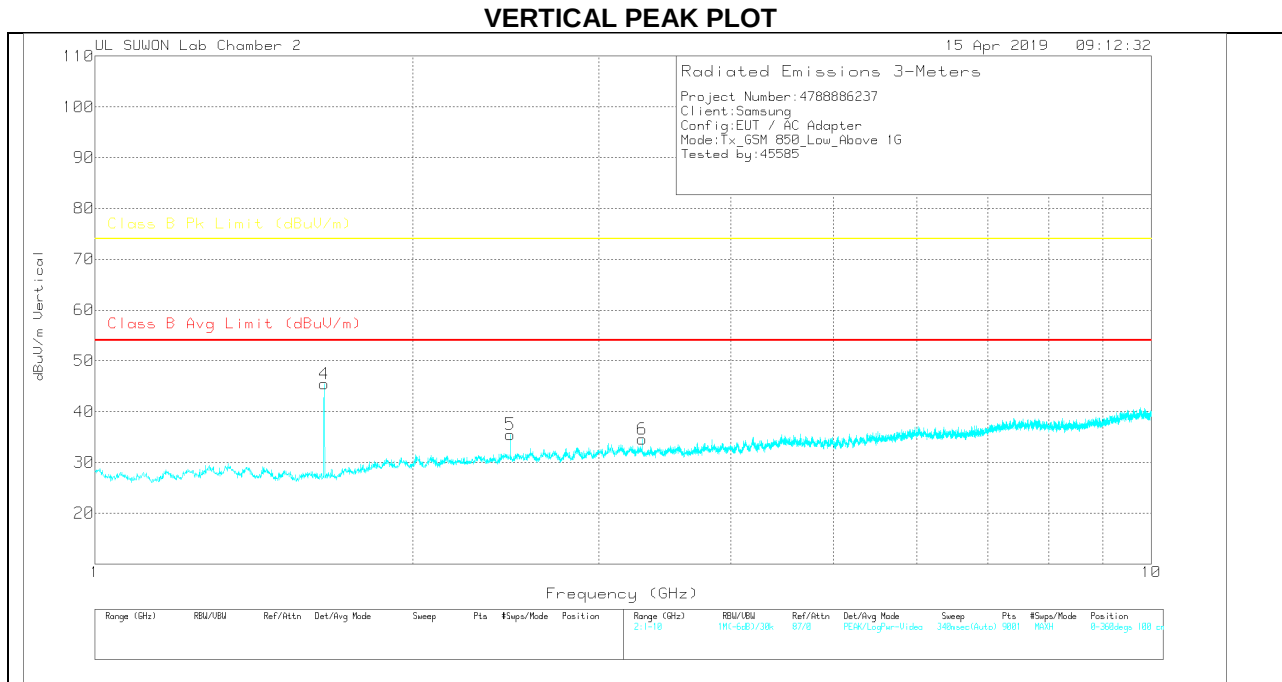
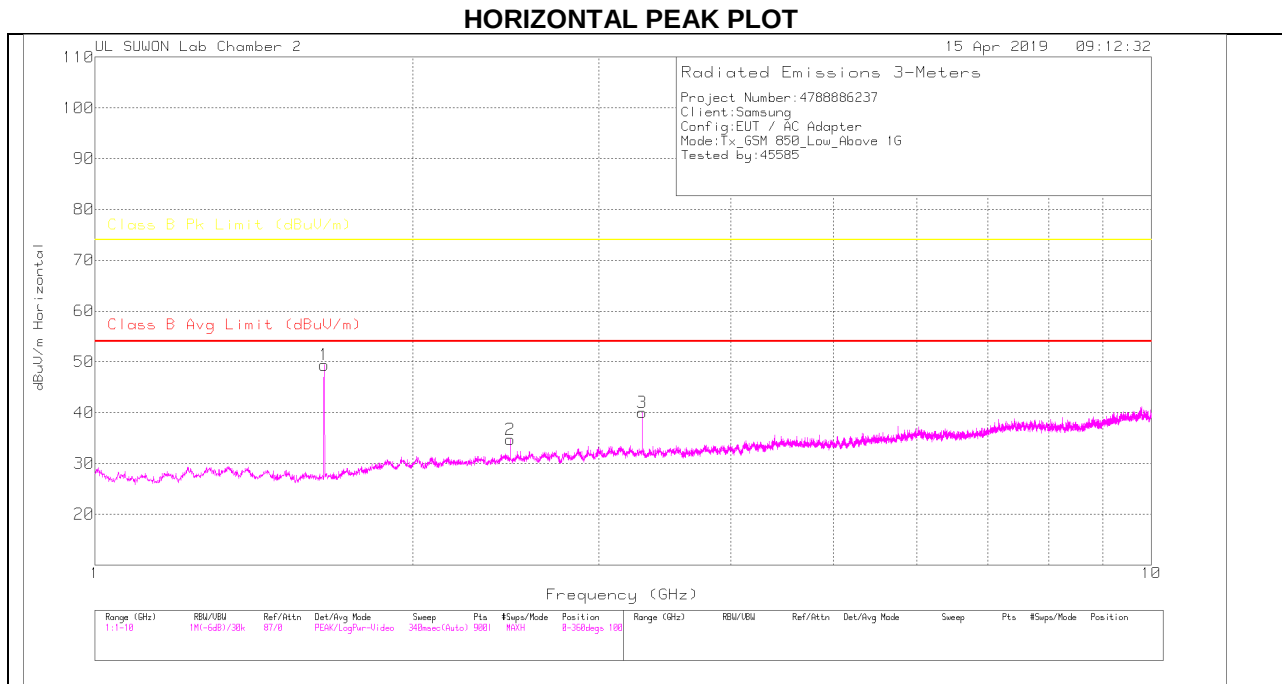
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	5117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSPP)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.397	31.84	PK	29.4	-31.7	.6	30.14	-	-	74	-43.86	0-360	200	H
2	2.581	31.43	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

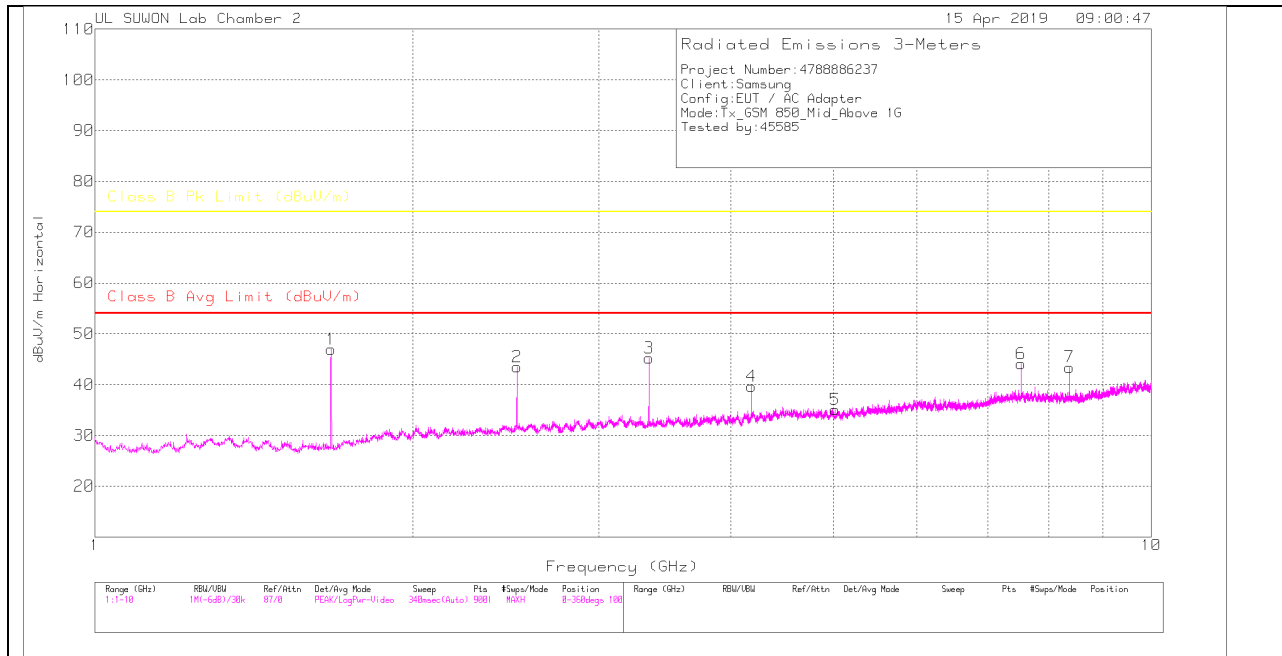
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSFR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.648	51.87	PK	28.3	-31.4	.6	49.37	-	-	74	-24.63	0-360	200	H
2	2.472	32.38	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

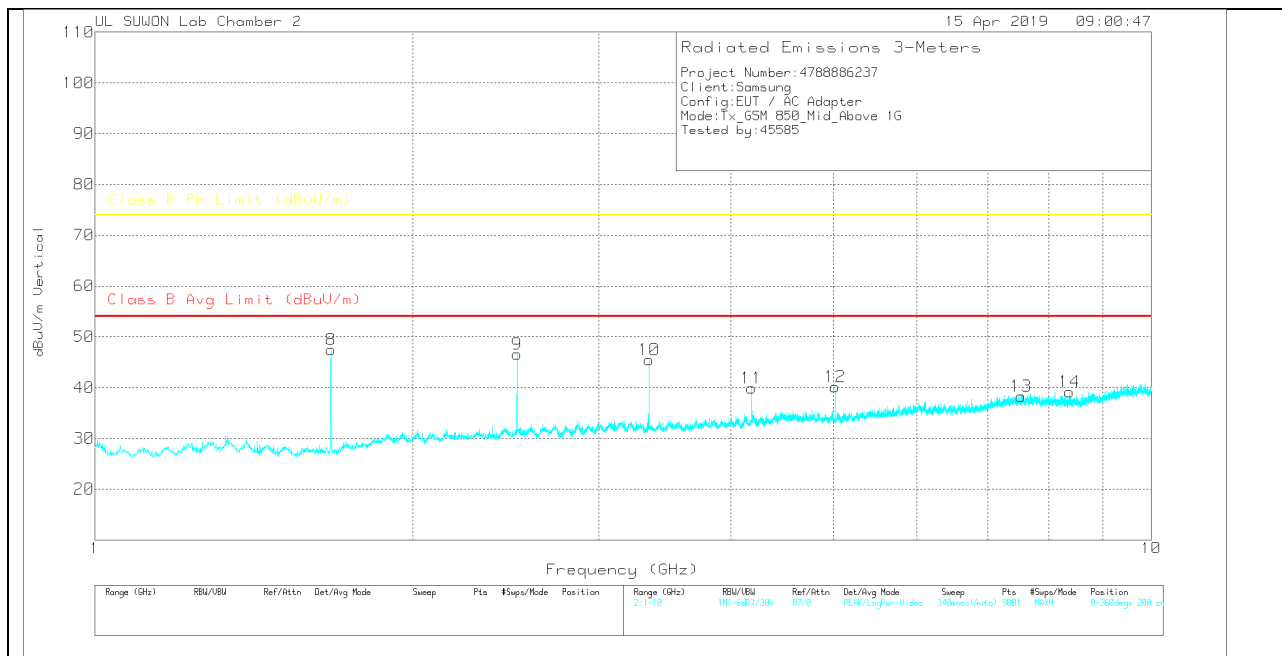
Note: Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

MID CHANNEL(881.6MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

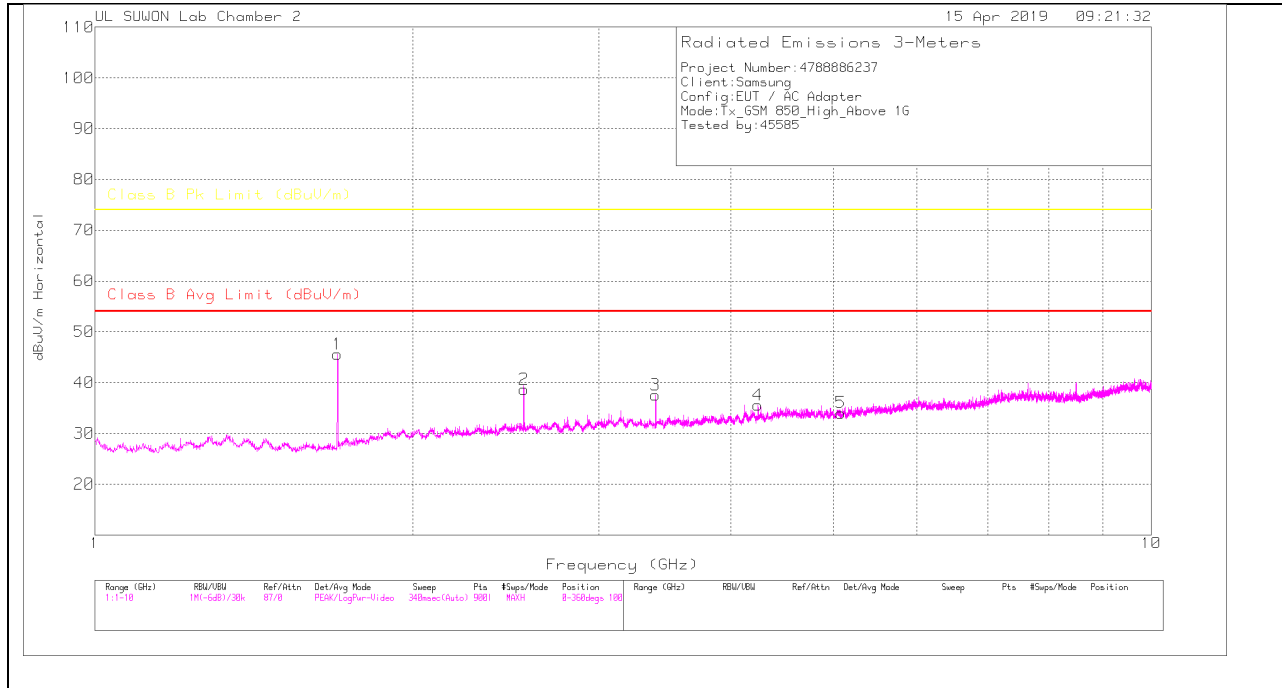
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	5117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSPP)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.673	49.2	PK	28.5	-31.3	.5	46.9	-	-	74	-27.1	0-360	200	H
2	2.509	41.38	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

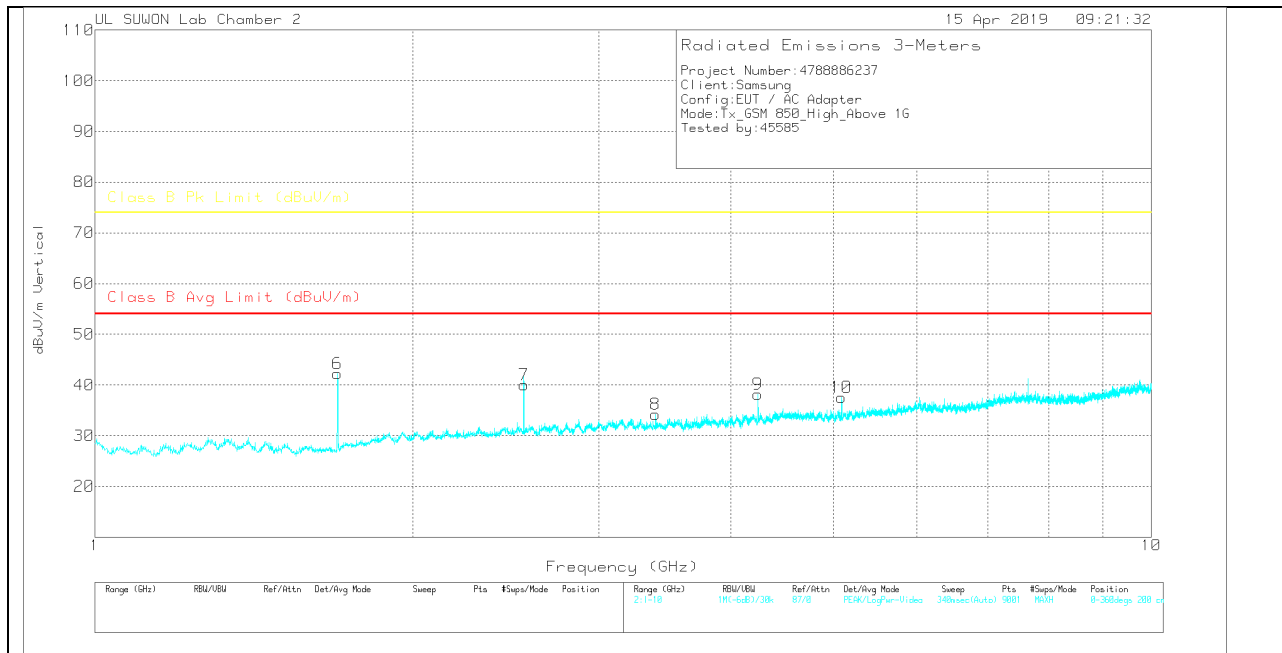
Note: Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

HIGH CHANNEL(893.8MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

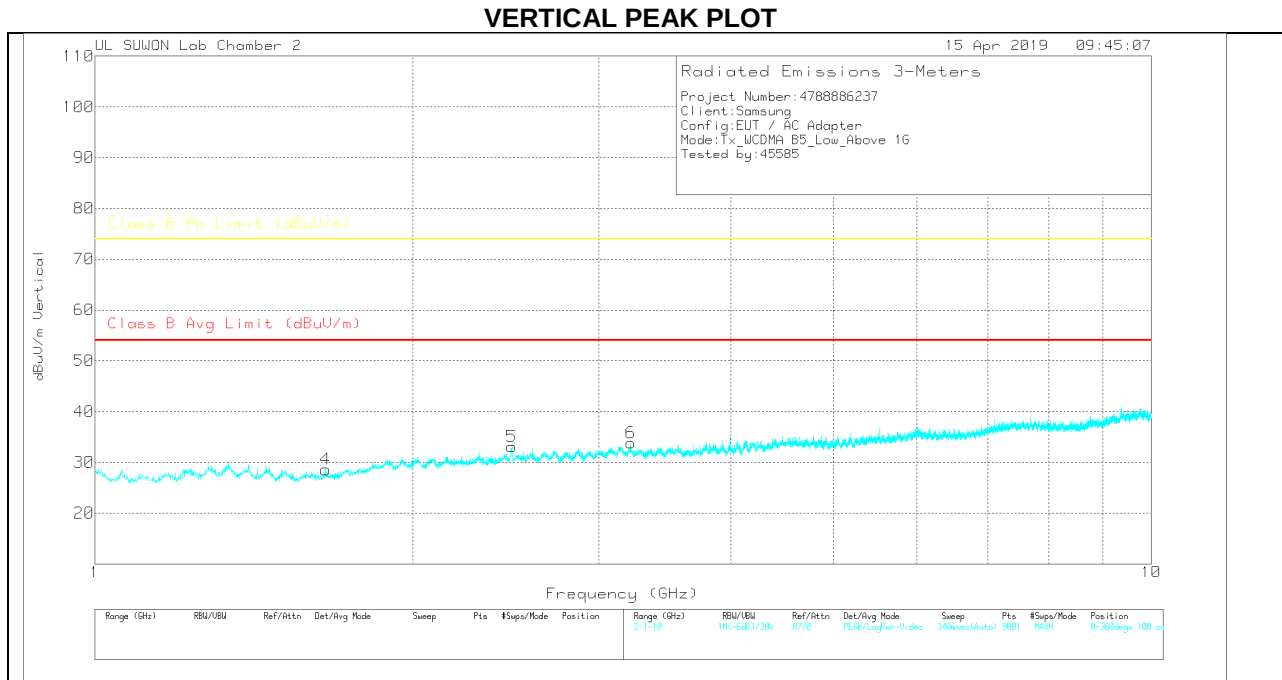
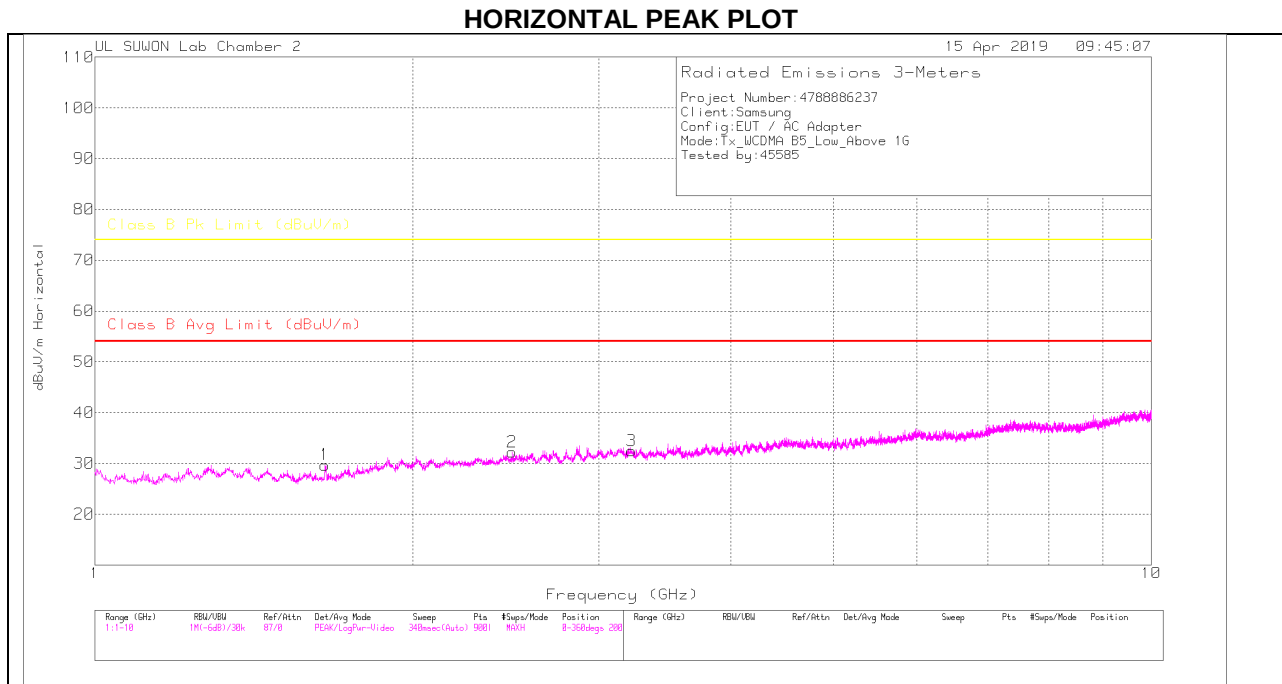
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	5117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSPP)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.697	47.67	PK	28.6	-31.3	.6	45.57	-	-	74	-28.43	0-360	200	H
2	2.547	36.21	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

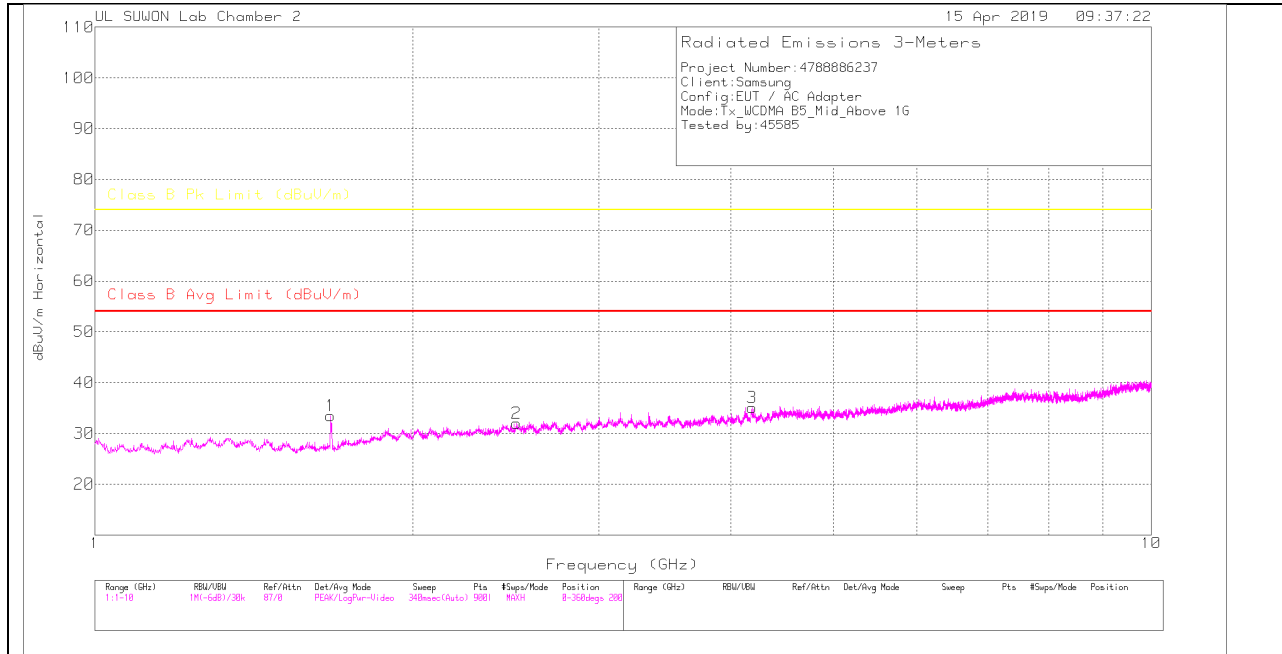
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSFR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.651	32.2	PK	28.3	-31.4	.6	29.7	-	-	74	-44.3	0-360	200	H
2	2.482	29.91	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

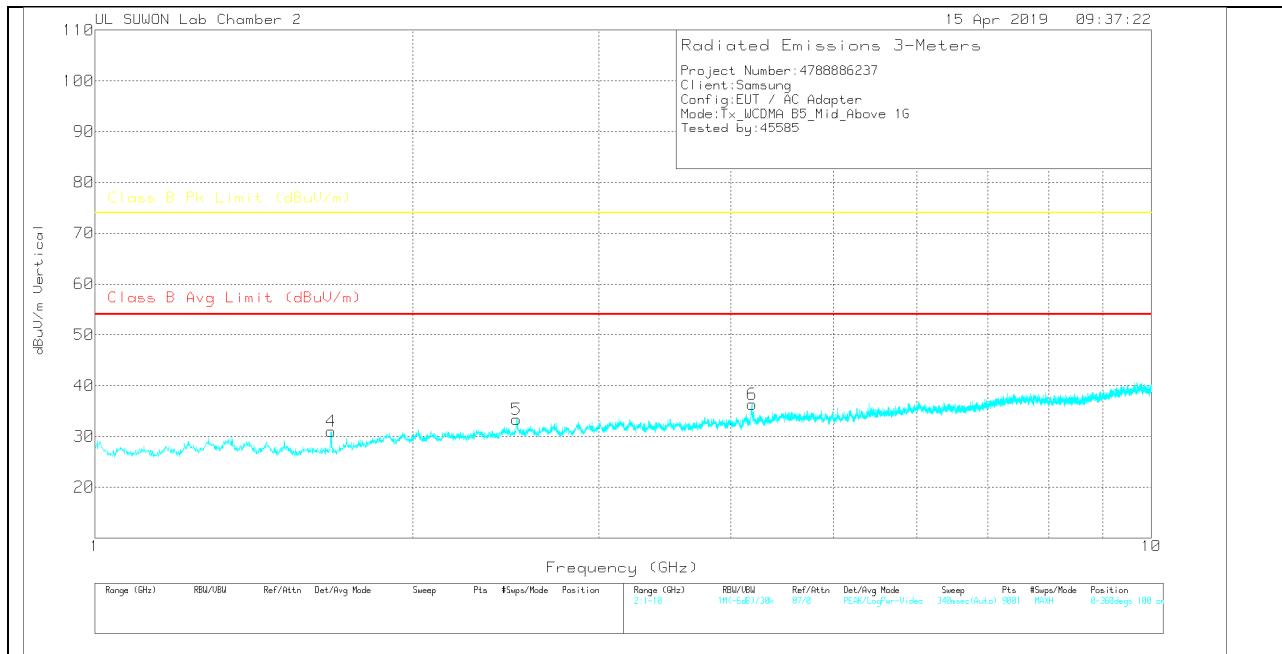
Note: Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

MID CHANNEL(881.6MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

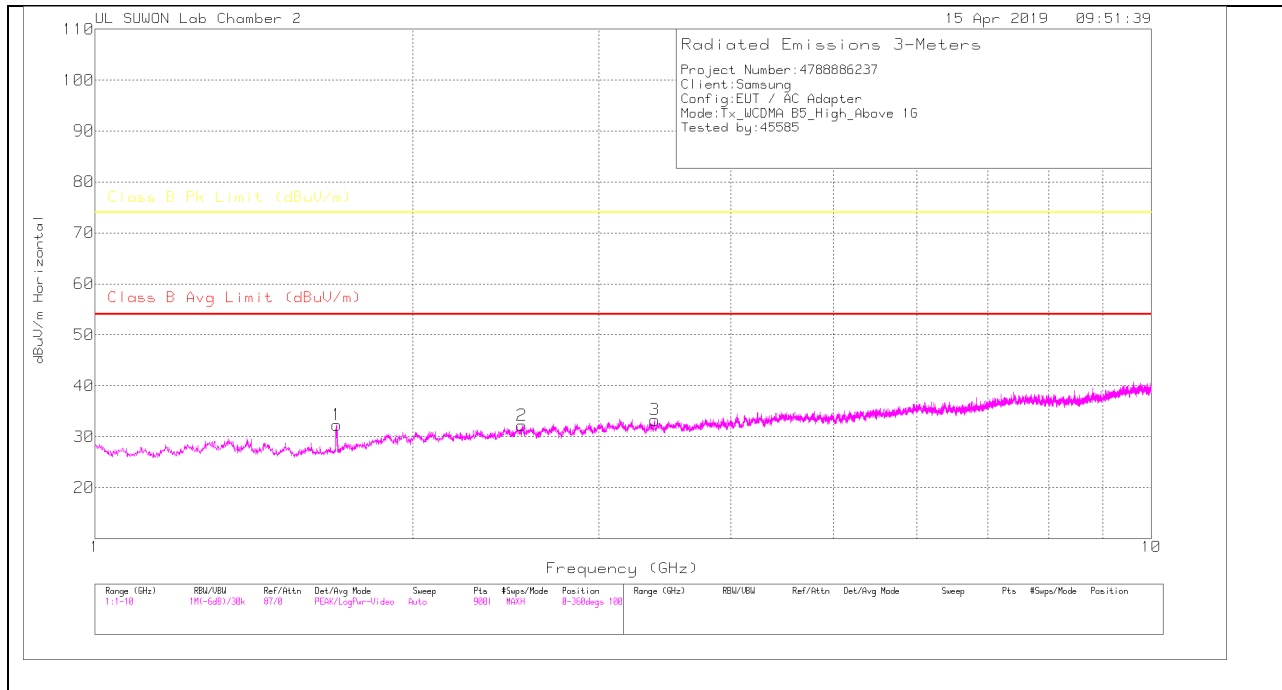
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	5117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSPP)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.671	35.9	PK	28.5	-31.4	.5	33.5	-	-	74	-40.5	0-360	200	H
2	2.506	29.96	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

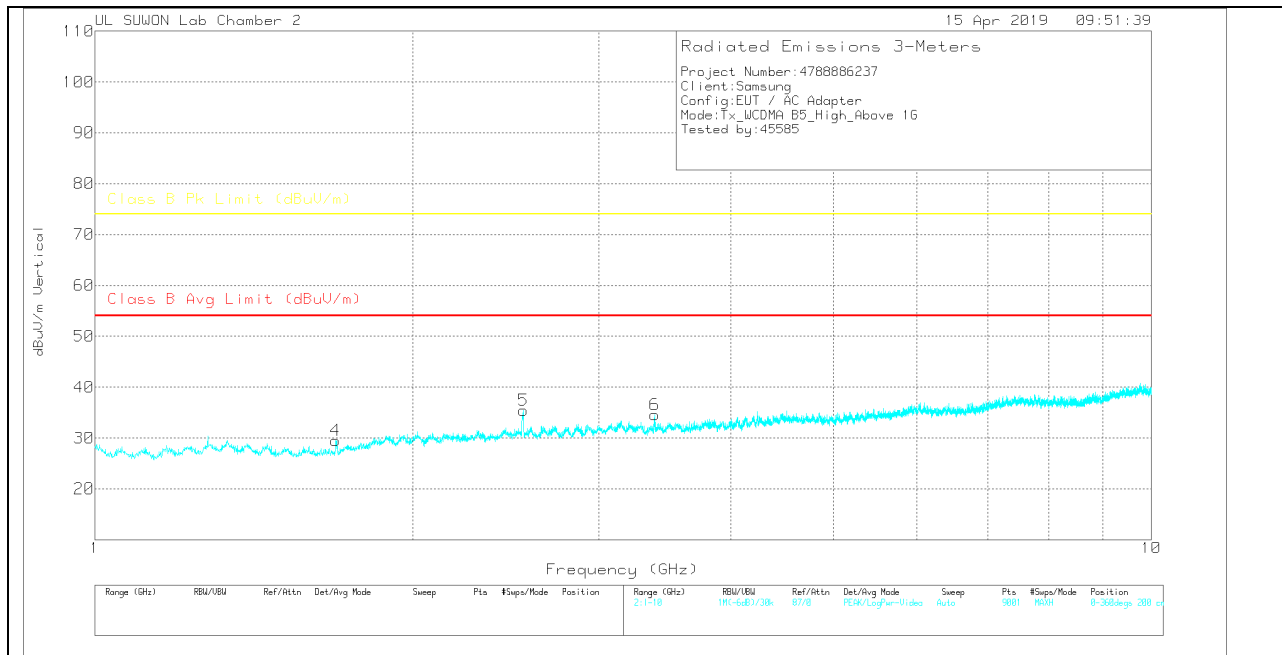
Note: Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

HIGH CHANNEL(891.6MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	5117_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	1.695	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

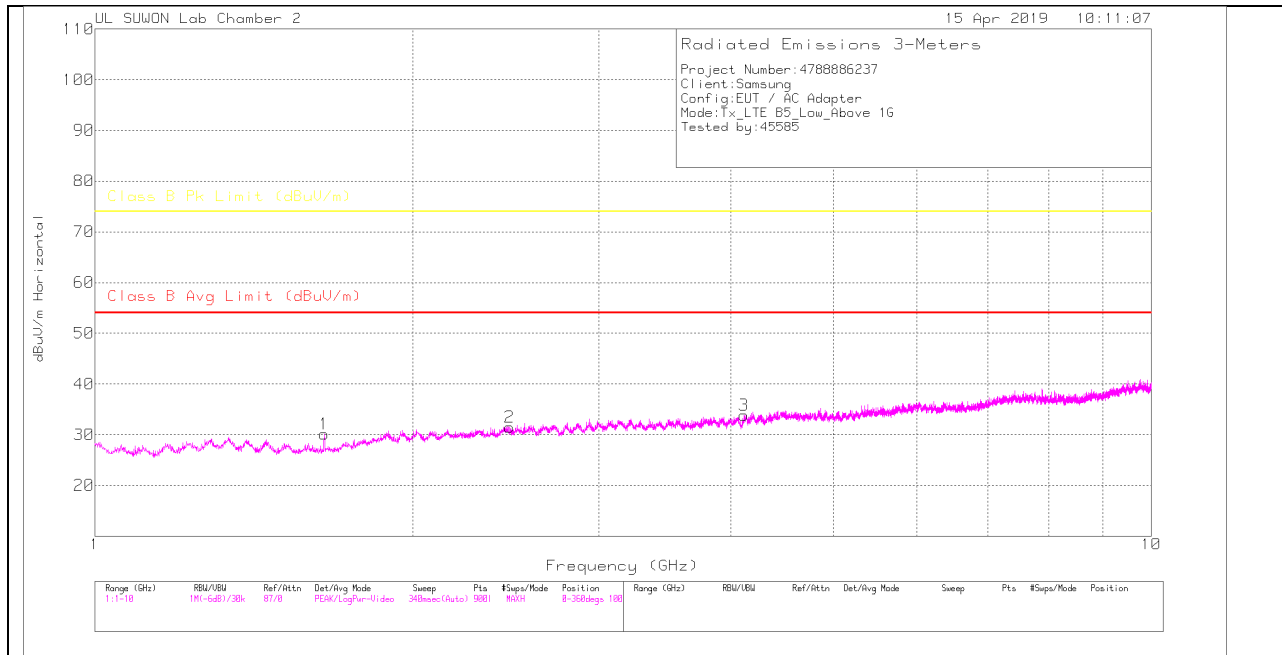
PK – Peak Detector

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

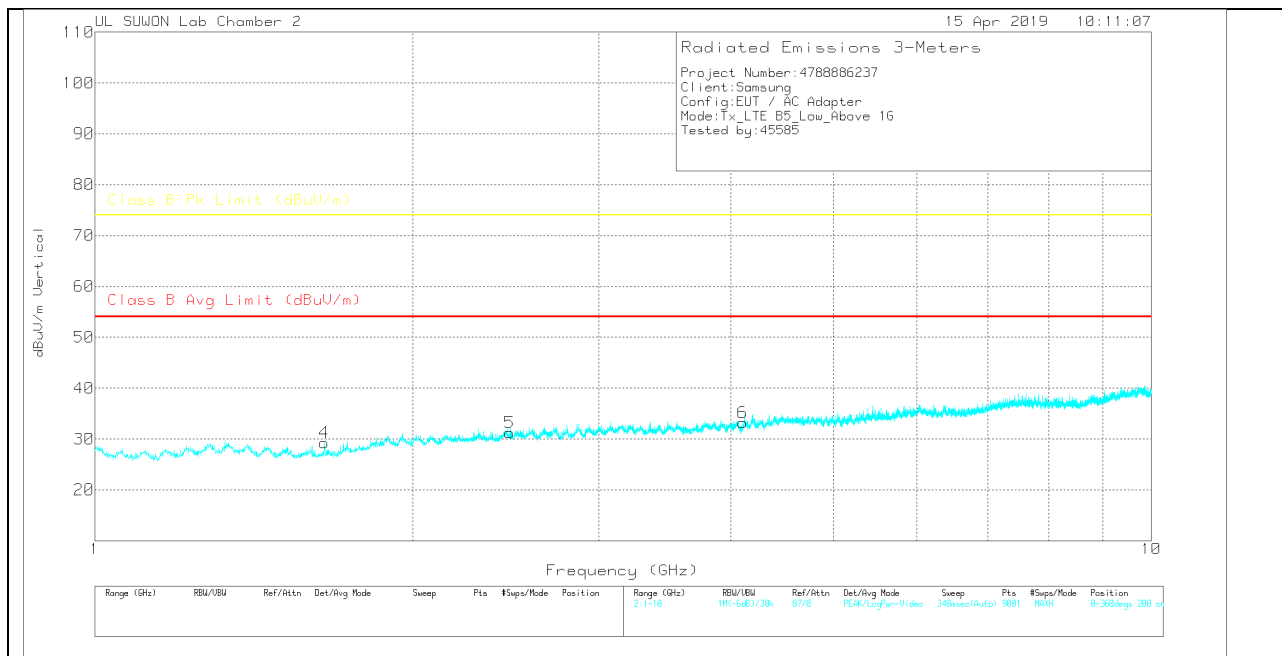
4.4. Above 1 GHz in the LTE Band 5

LOW CHANNEL(870.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

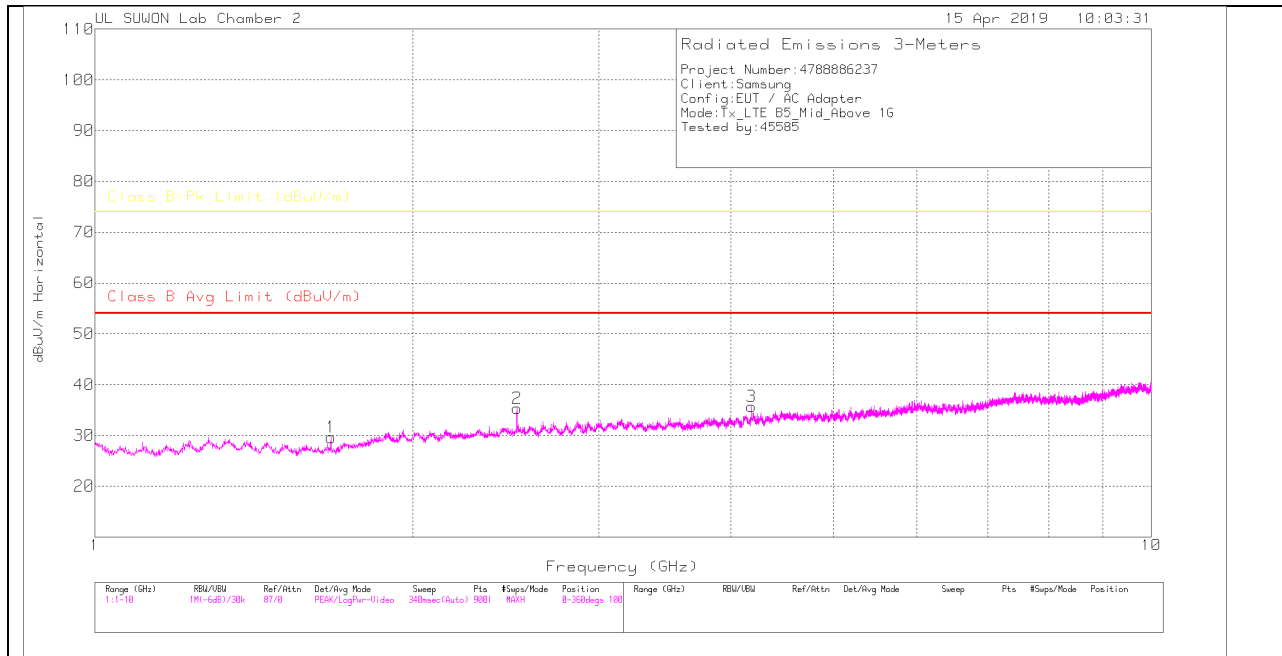
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSFR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.648	32.68	PK	28.3	-31.4	.6	30.18	-	-	74	-43.82	0-360	200	H
2	2.469	29.16	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

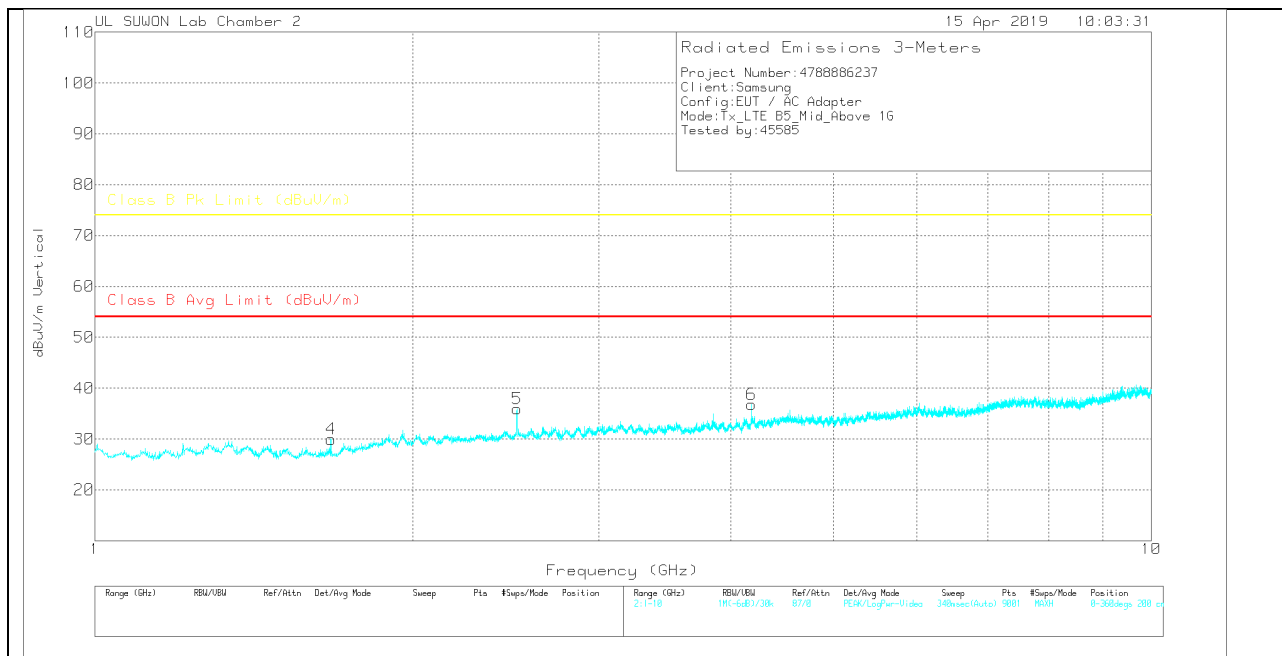
Note: Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

MID CHANNEL(881.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

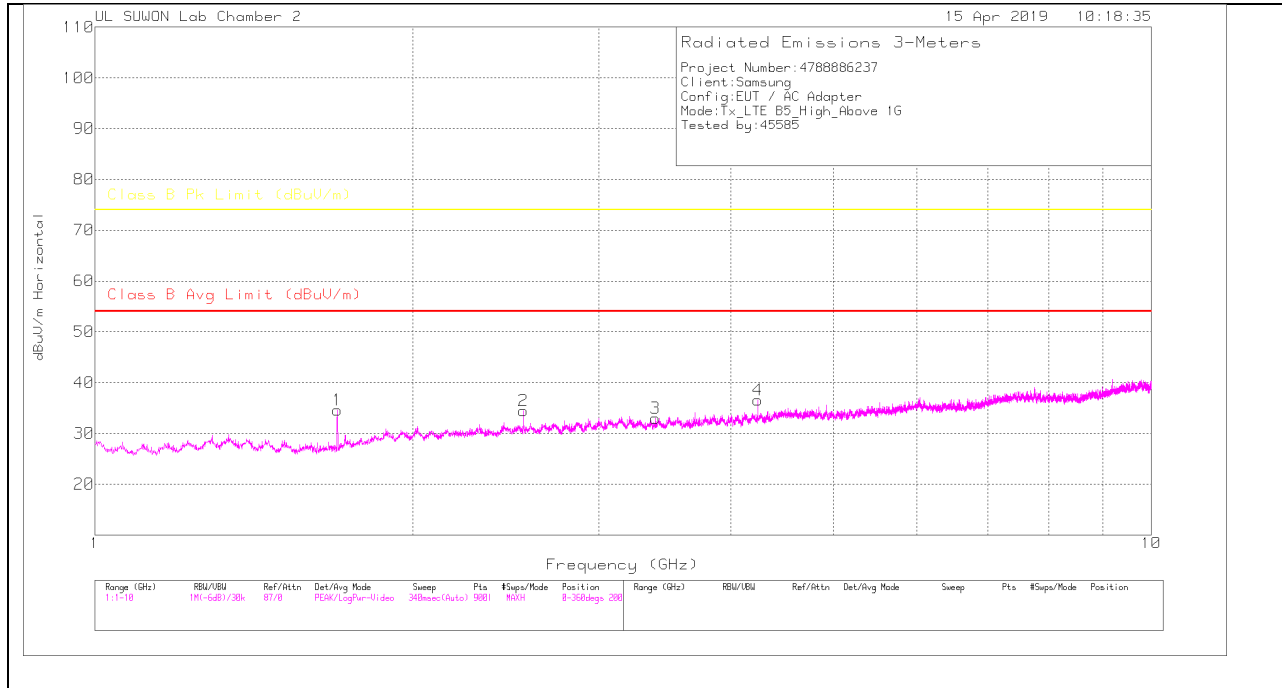
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	5117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSPP)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.673	31.88	PK	28.5	-31.3	.5	29.58	-	-	74	-44.42	0-360	200	H
2	2.509	33.28	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

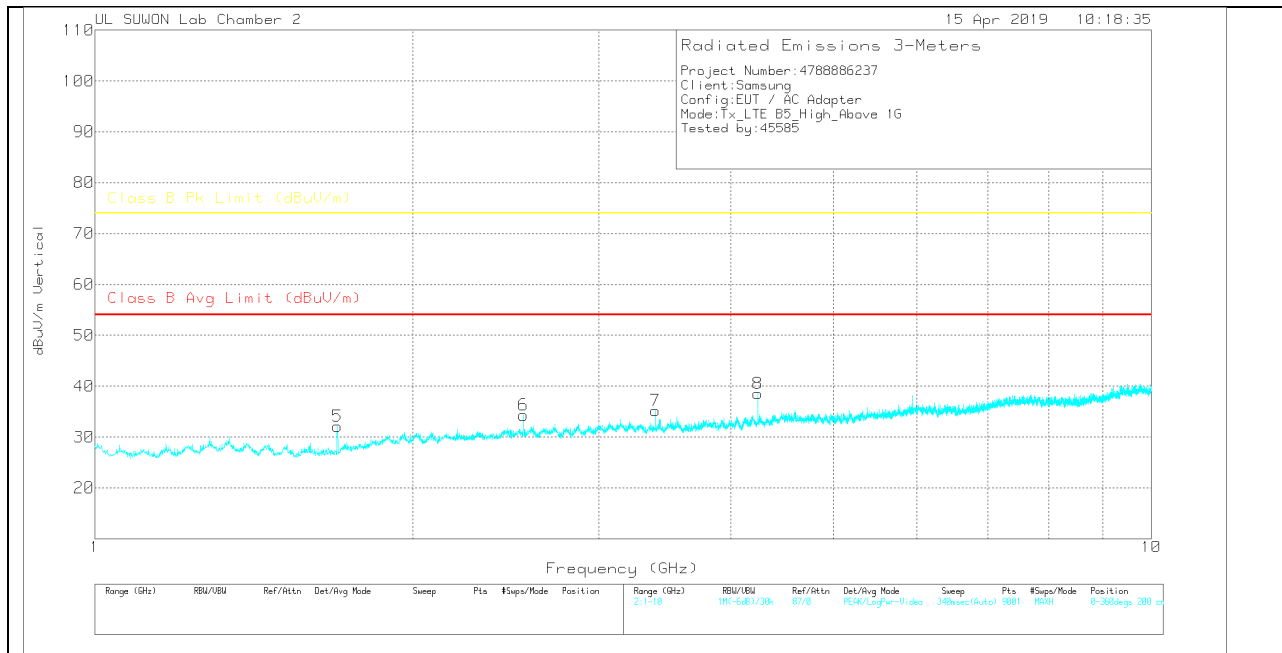
Note: Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

HIGH CHANNEL(892.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	5117_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	1.696	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

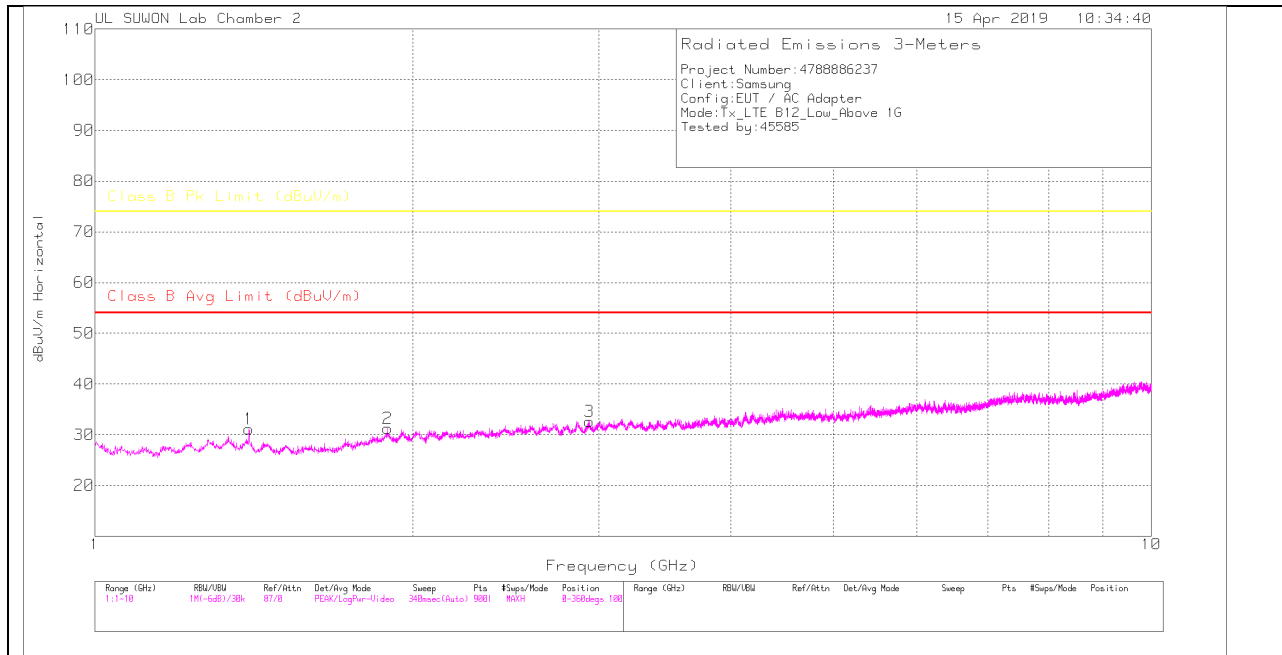
PK – Peak Detector

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

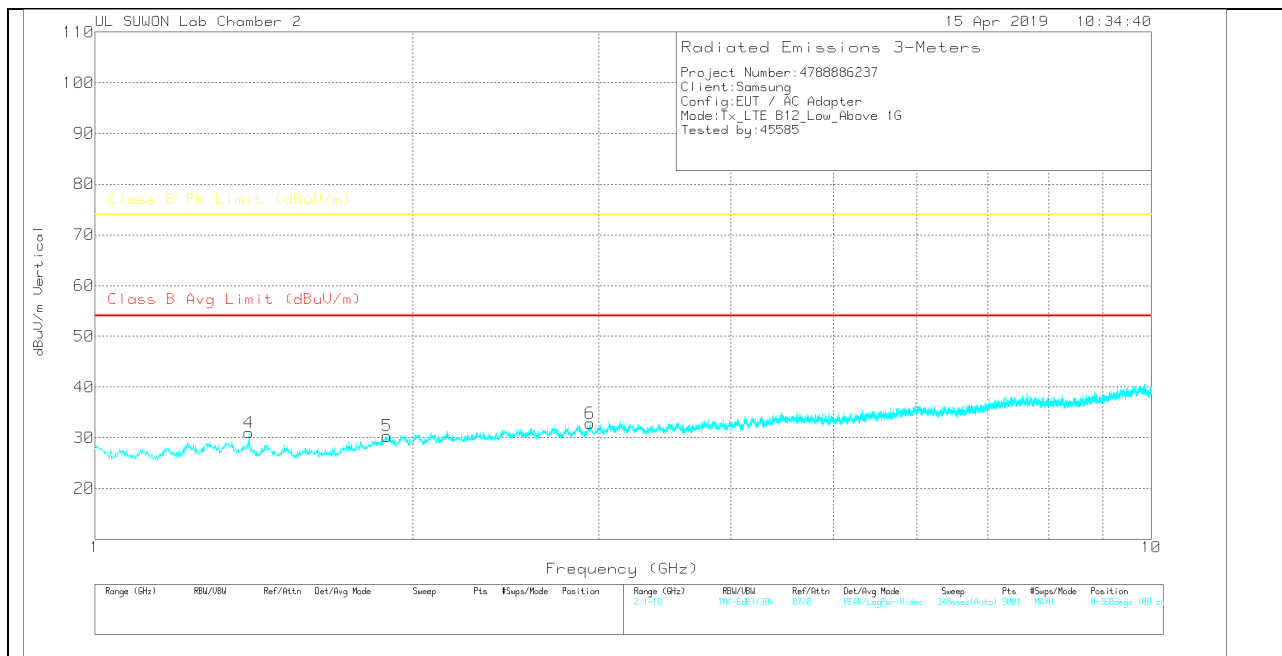
4.5. Above 1 GHz in the LTE Band 12

LOW CHANNEL(730.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

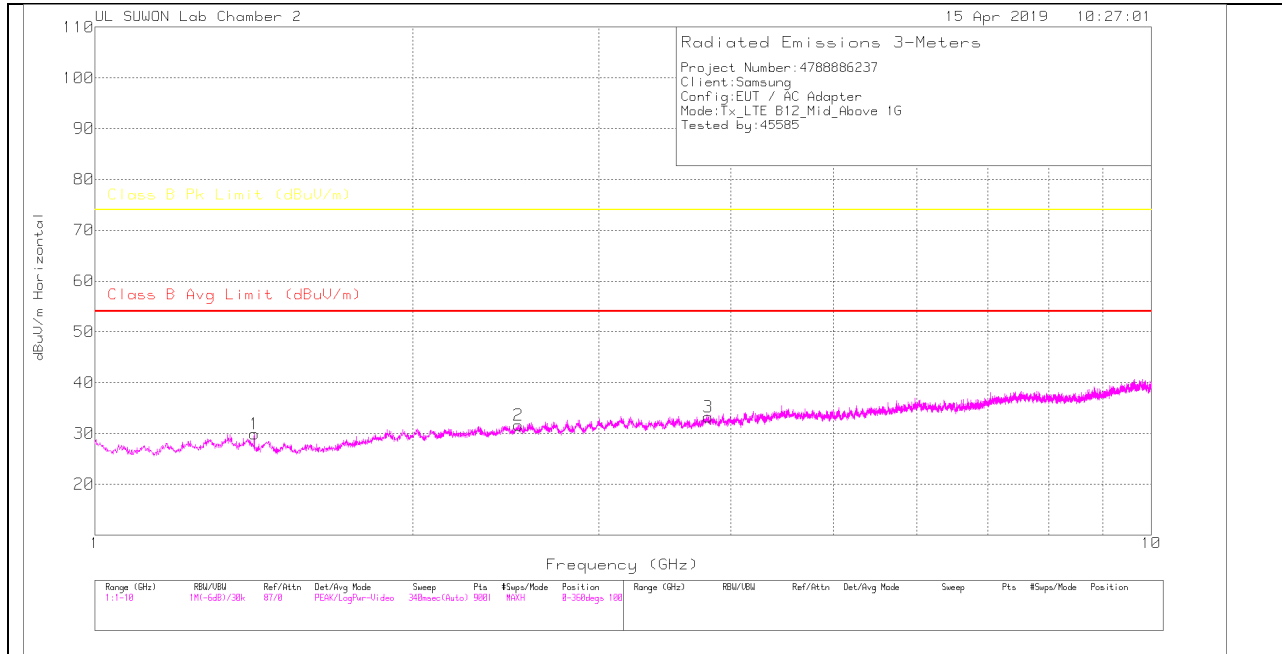
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSFR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.399	32.83	PK	29.4	-31.7	.6	31.13	-	-	74	-42.87	0-360	100	H
2	1.892	30.83	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

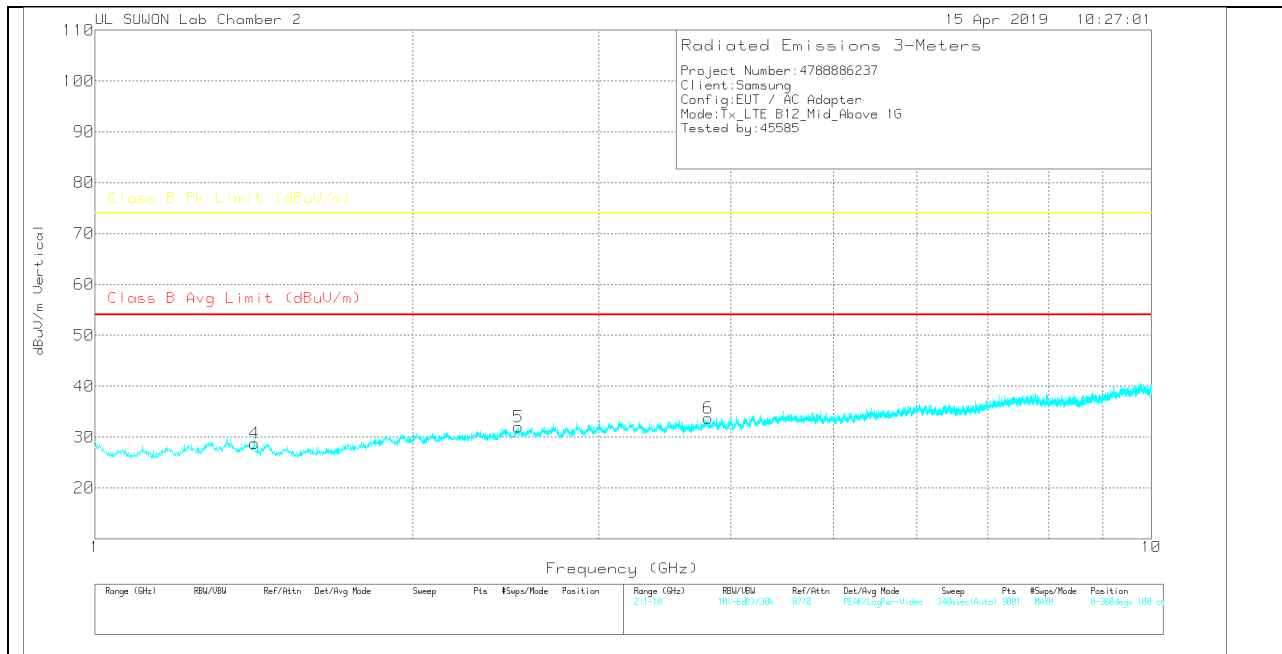
Note: Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

MID CHANNEL(737.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

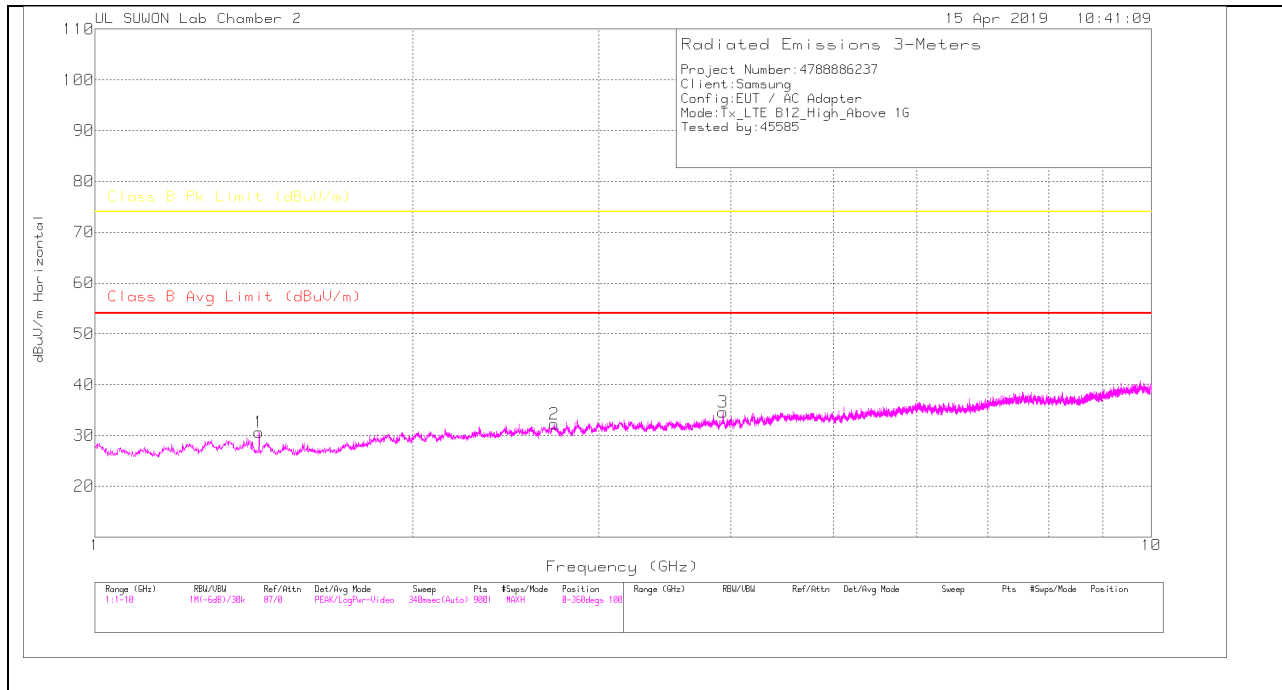
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	5117_00168724	1-18GHz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSPP)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.415	31.74	PK	29.3	-31.8	.6	29.84	-	-	74	-44.16	0-360	100	H
2	2.518	29.26	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

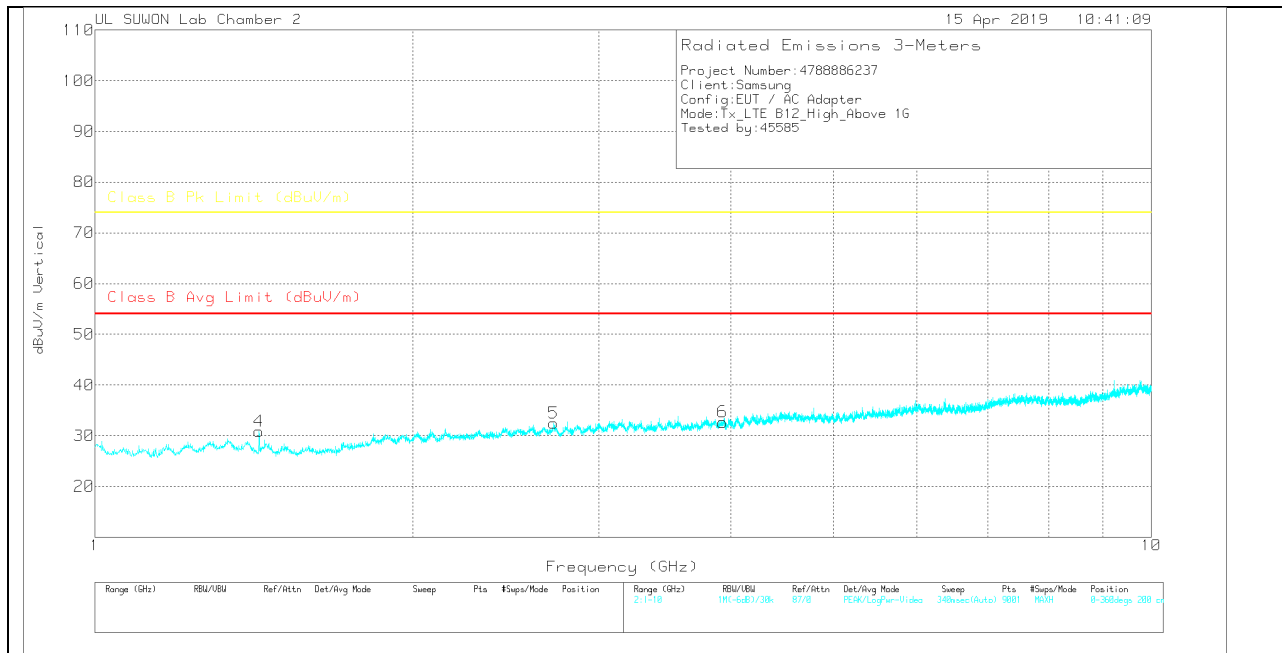
Note: Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

HIGH CHANNEL(744.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	5117_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	1.43	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

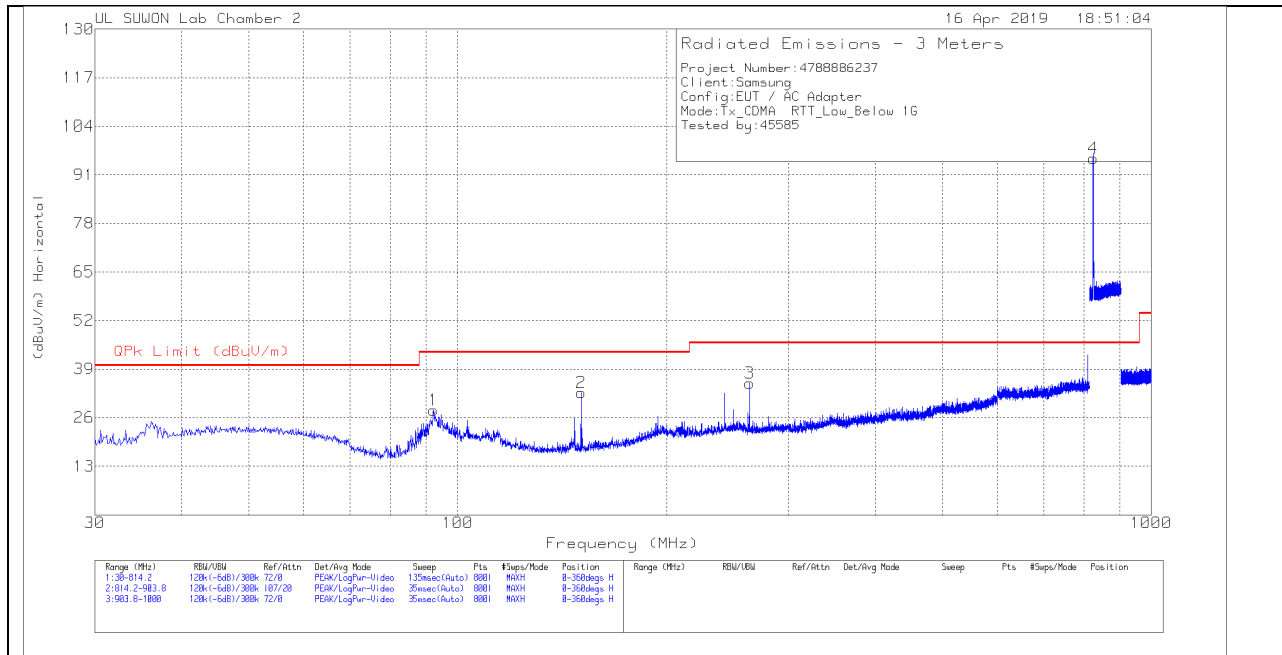
PK – Peak Detector

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

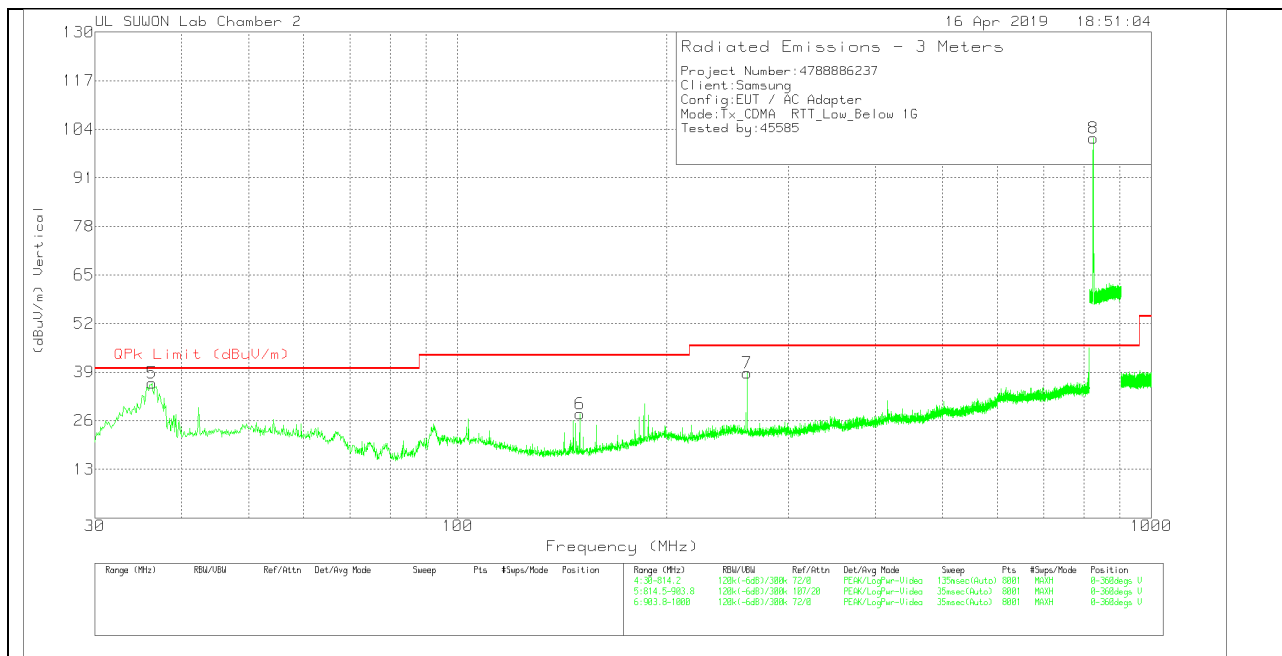
4.6. Below 1 GHz in the CDMA BC0

LOW CHANNEL(869.7MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

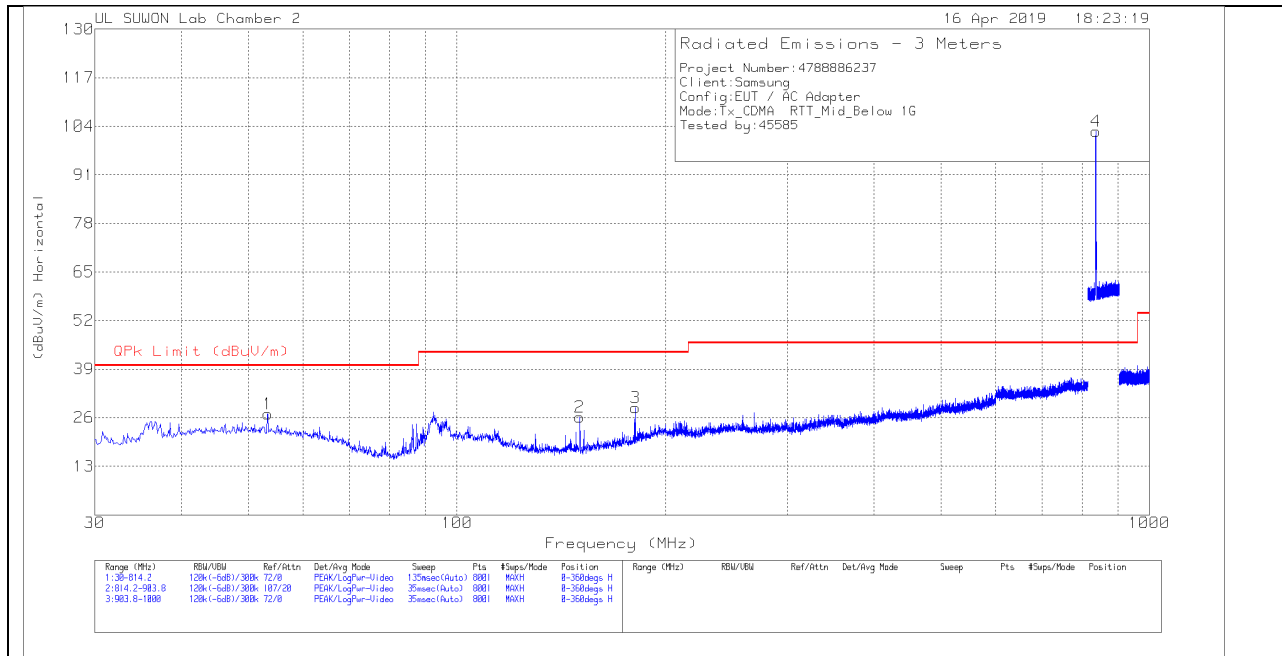
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	92.3439	10.46	Pk	16.5	1	27.96	43.52	-15.56	0-360	200	H
2	150.6688	17.33	Pk	14.1	1.3	32.73	43.52	-10.79	0-360	100	H
3	263.7896	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

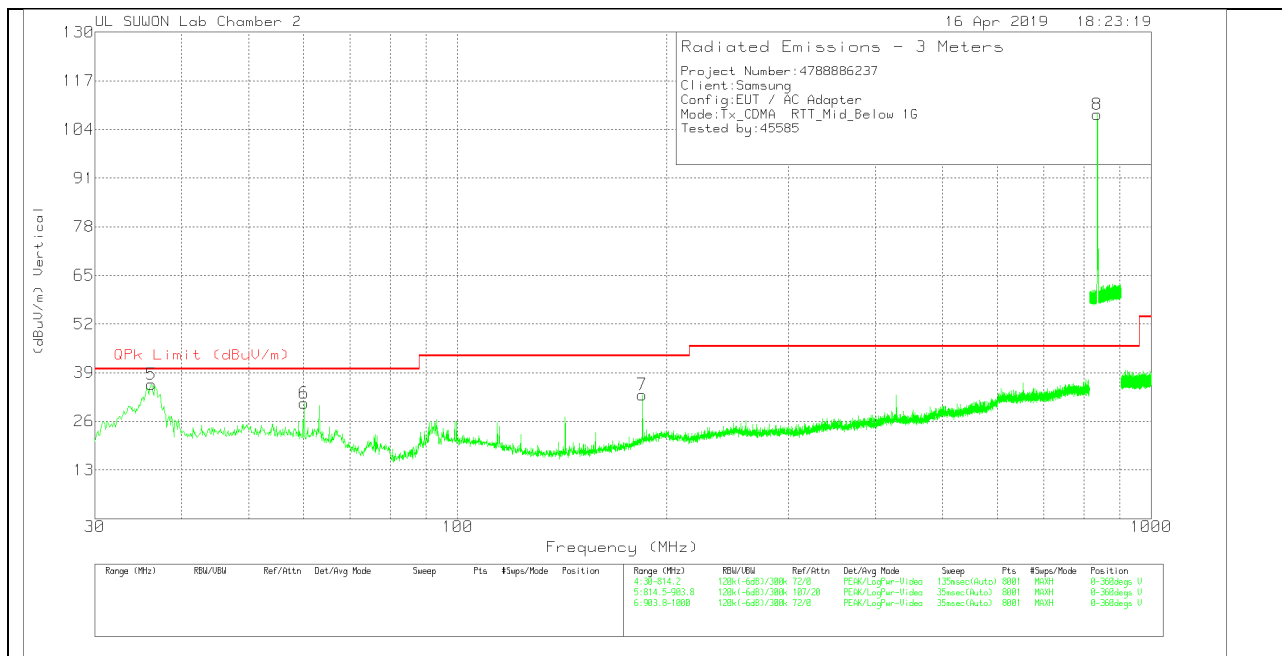
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(881.52MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

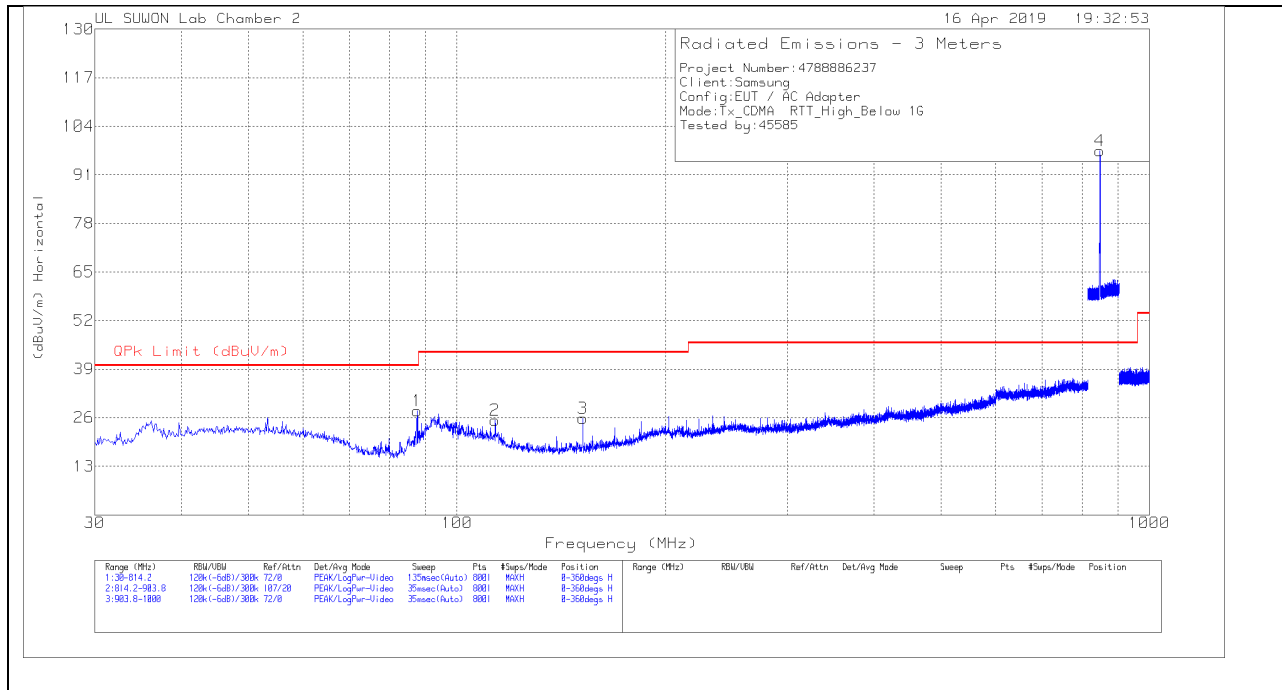
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	53.33	6.75	Pk	19.5	.8	27.05	40	-12.95	0-360	300	H
2	150.4727	10.78	Pk	14.1	1.3	26.18	43.52	-17.34	0-360	100	H
3	181.0565	11.35	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

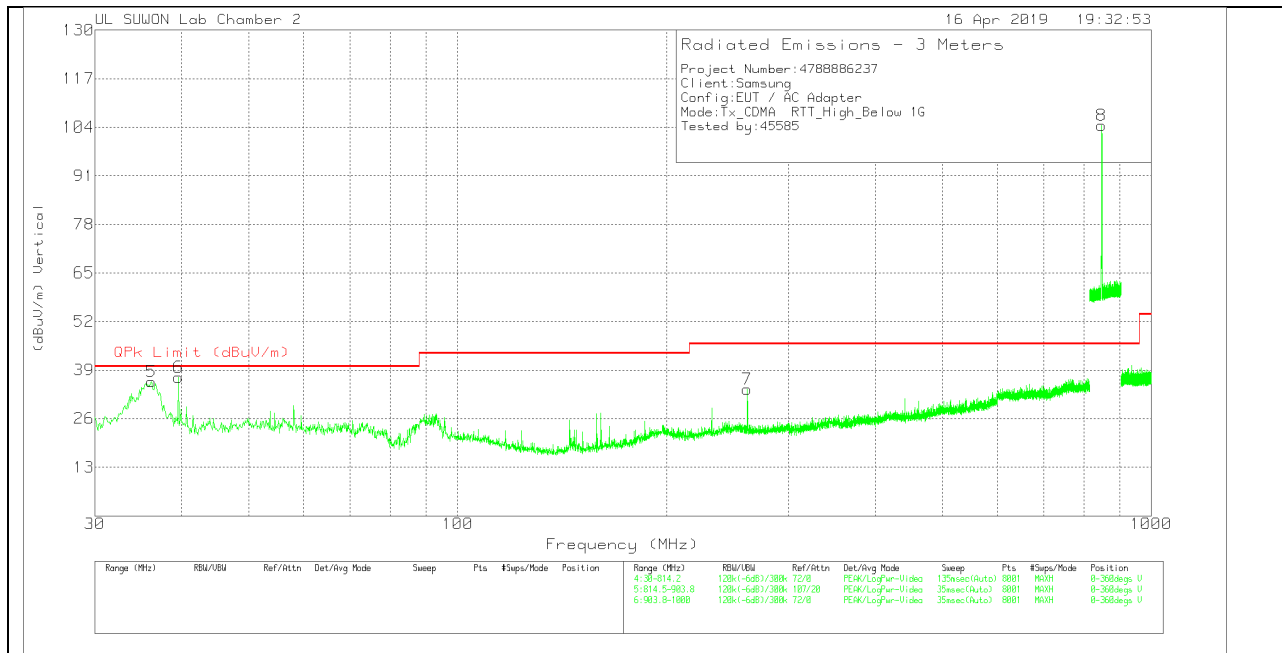
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

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

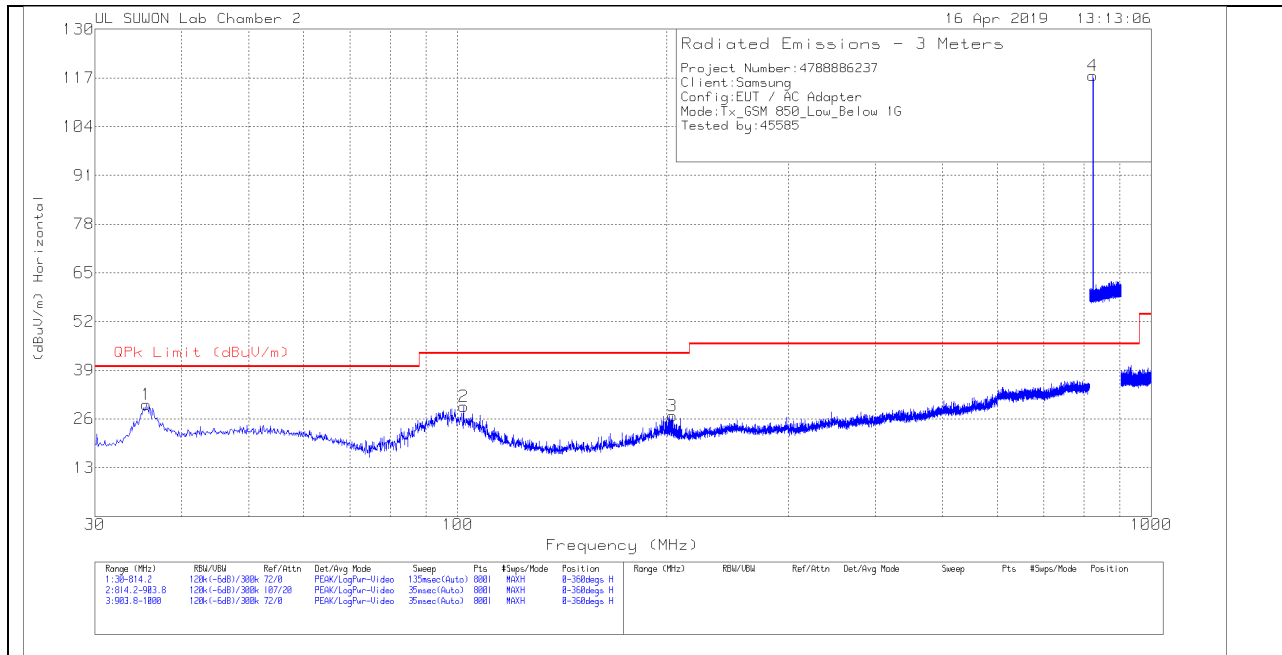
Qp - Quasi-Peak detector

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

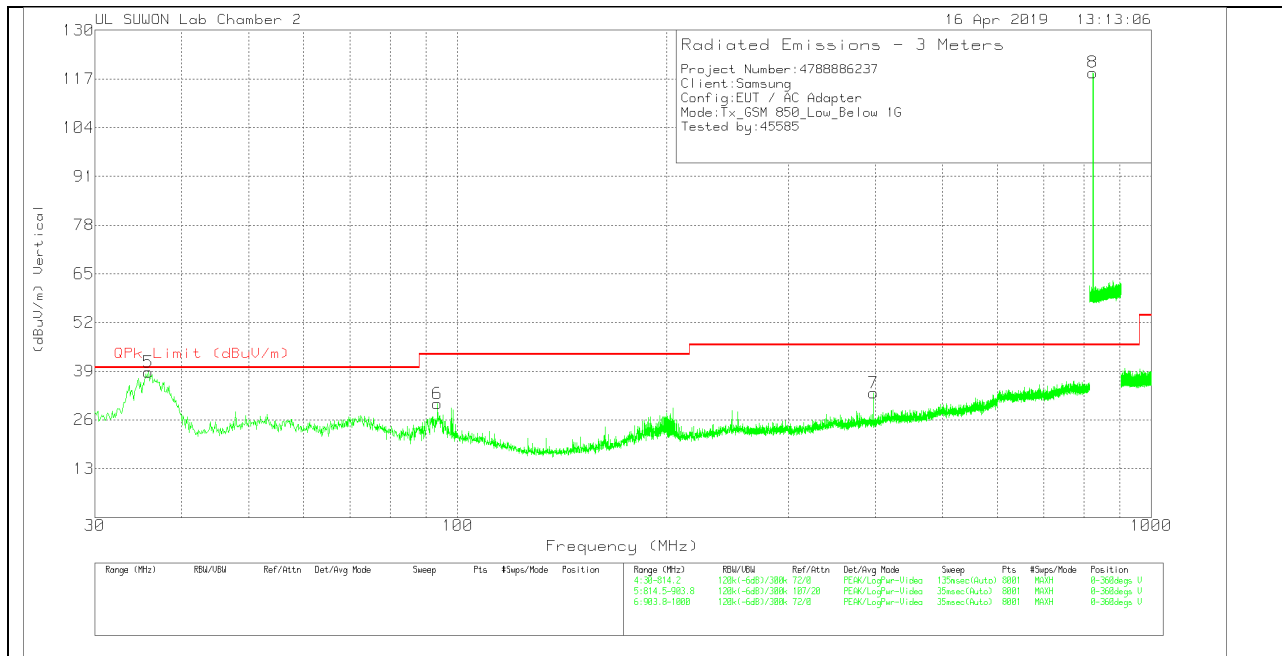
4.7. Below 1 GHz in the GSM850

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

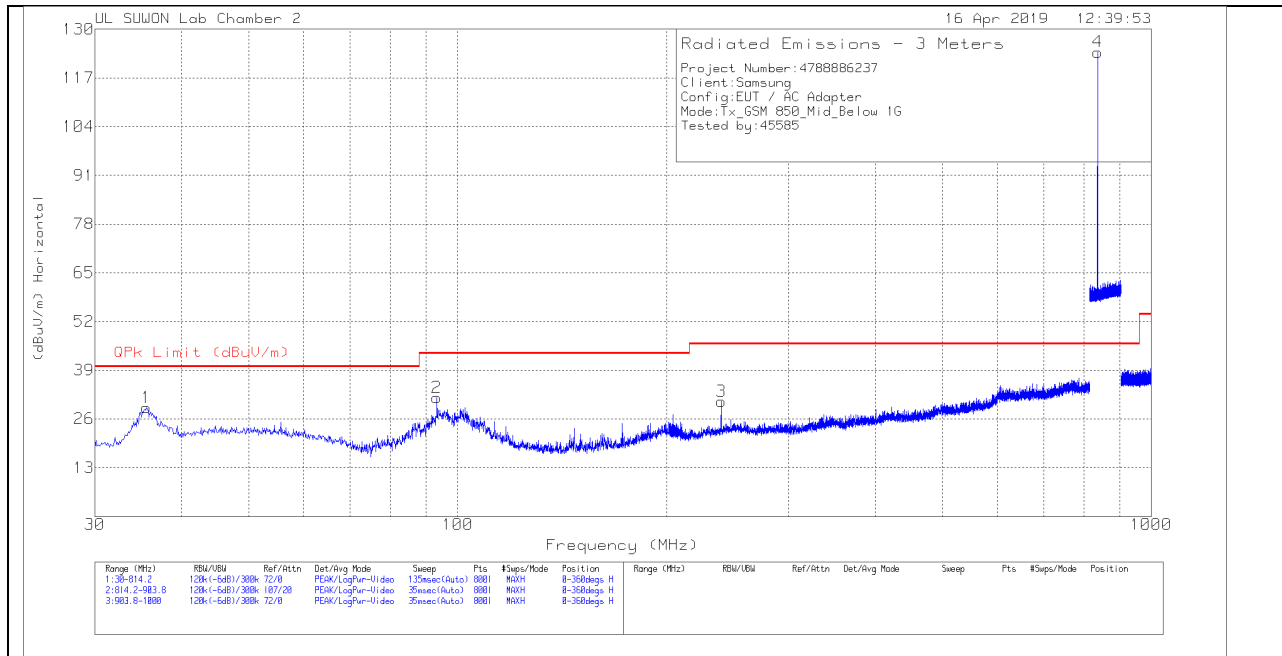
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
35.7835	15.69	Qp	17	.6	33.29	40	-6.71	234	100	V

Qp - Quasi-Peak detector

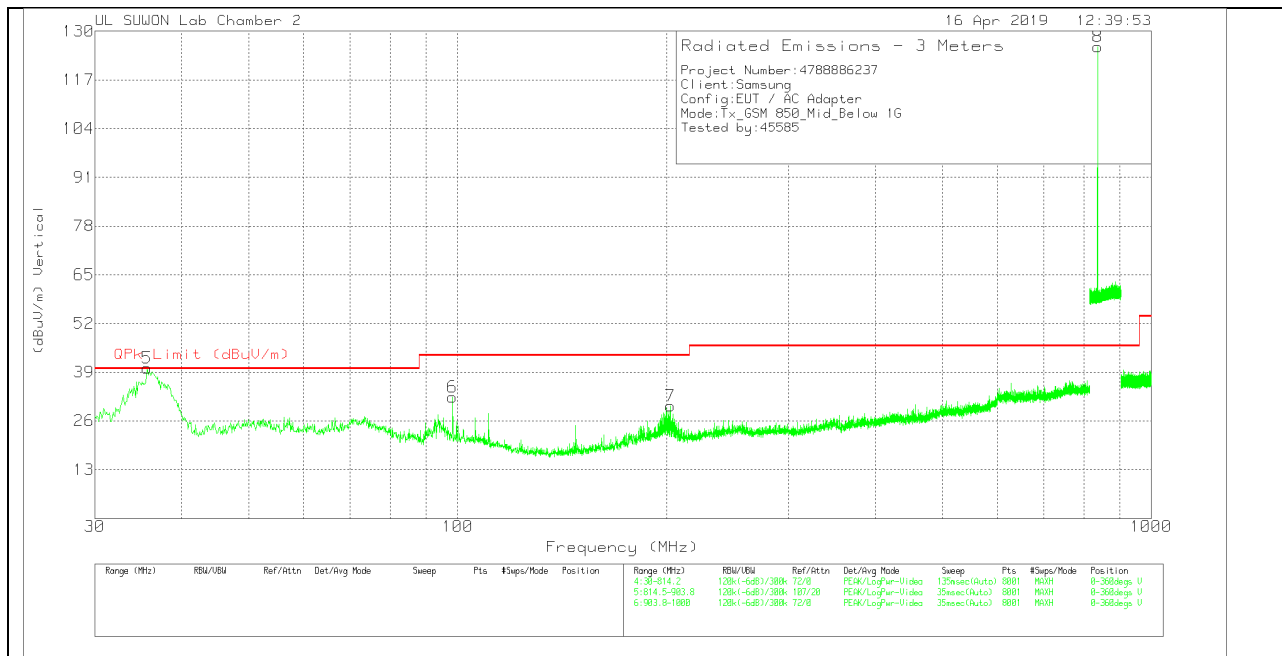
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

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

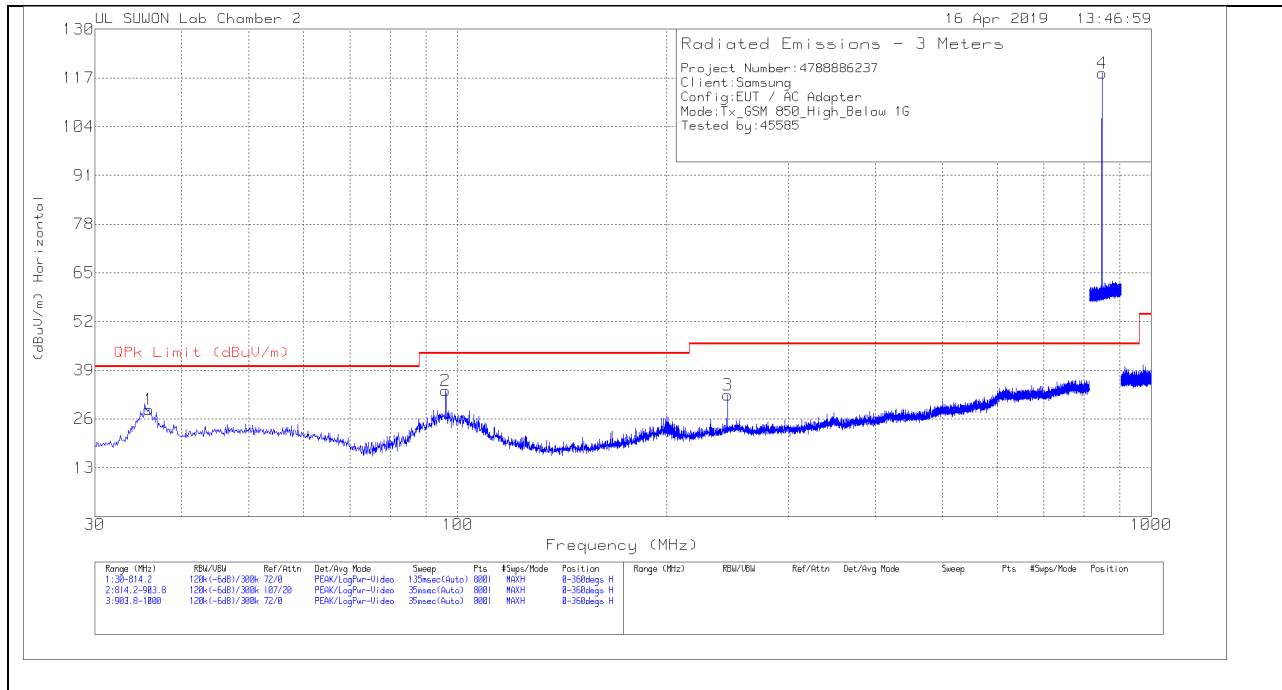
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
35.6855	15.68	Qp	17	.6	33.28	40	-6.72	206	117	V

Qp - Quasi-Peak detector

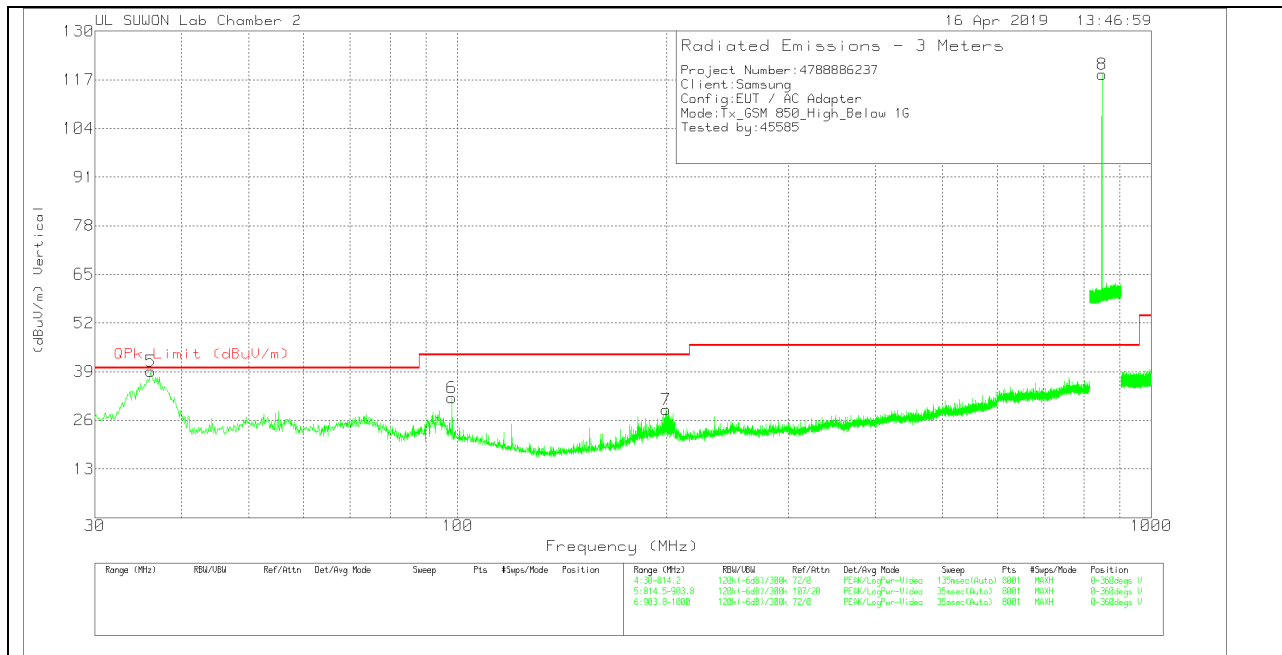
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

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	-.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

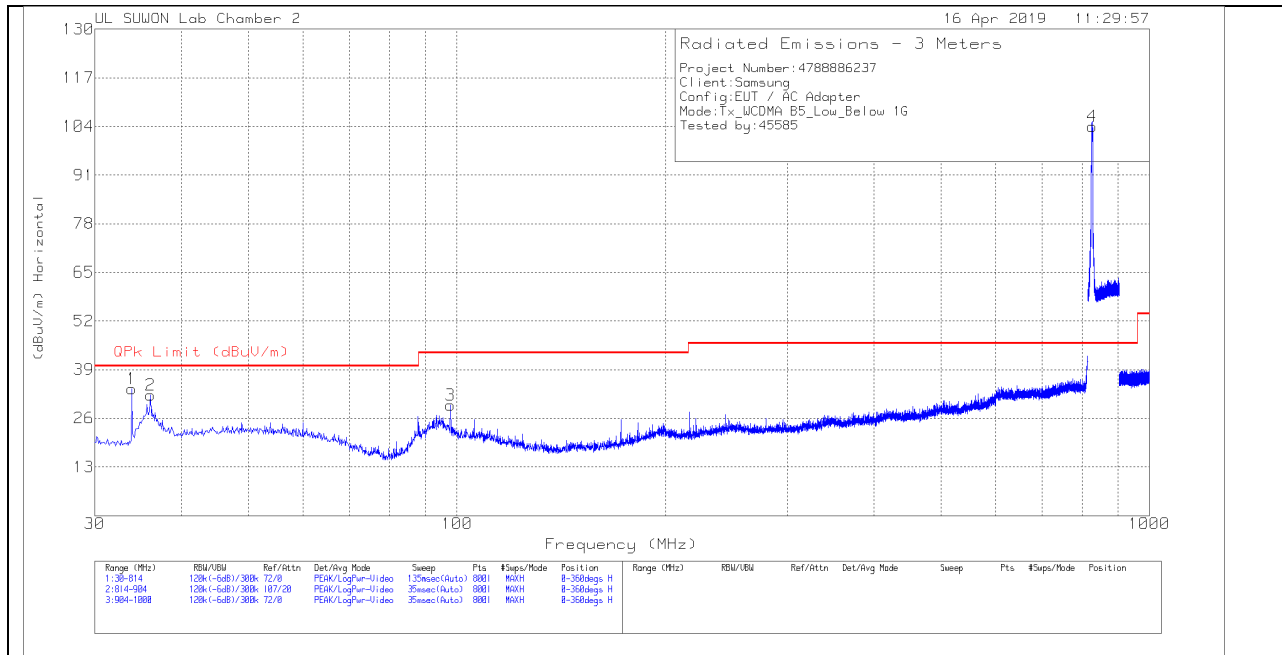
Qp - Quasi-Peak detector

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

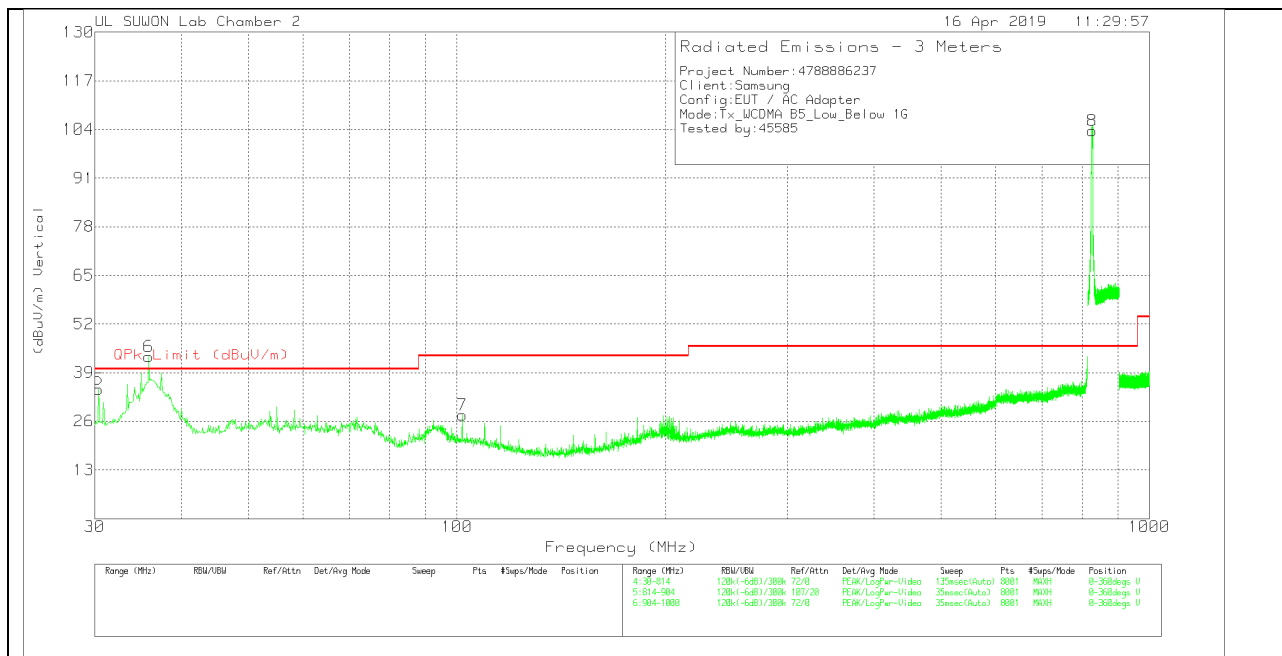
4.8. Below 1 GHz in the WCDMA Band 5

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

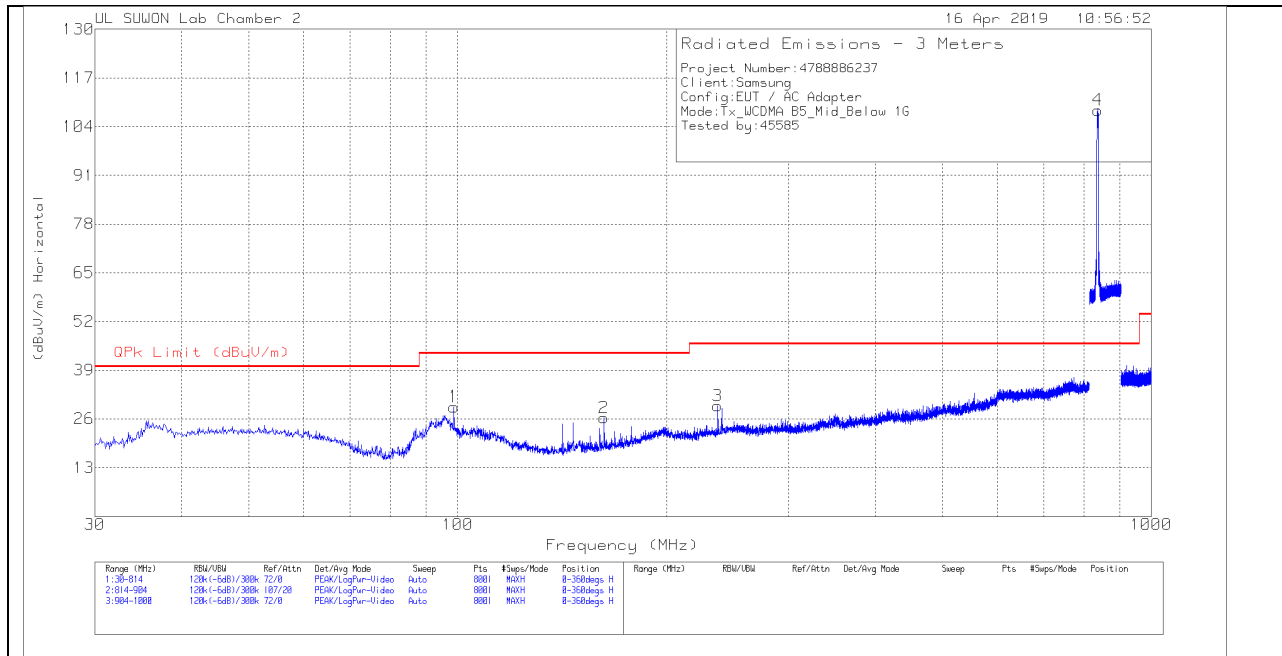
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
35.88	15.67	Qp	17.1	.7	33.47	40	-6.53	230	107	V

Qp - Quasi-Peak detector

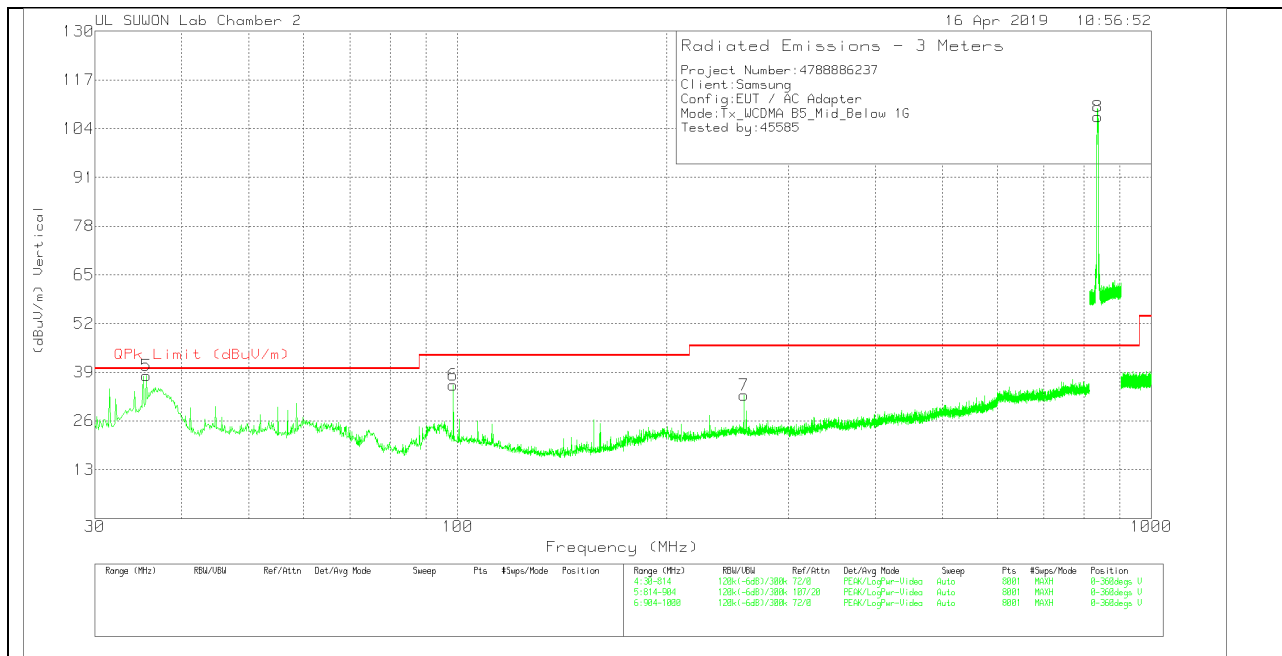
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

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

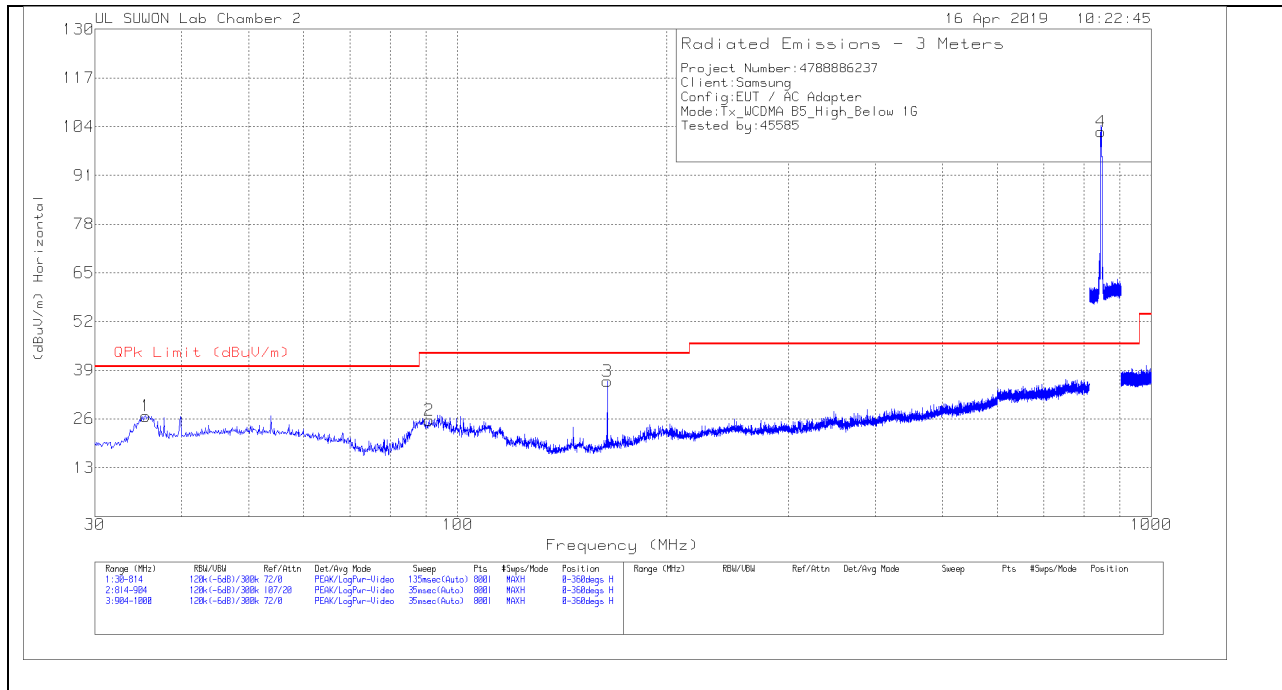
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
35.586	8.13	Qp	16.9	.7	25.73	40	-14.27	236	215	V

Qp - Quasi-Peak detector

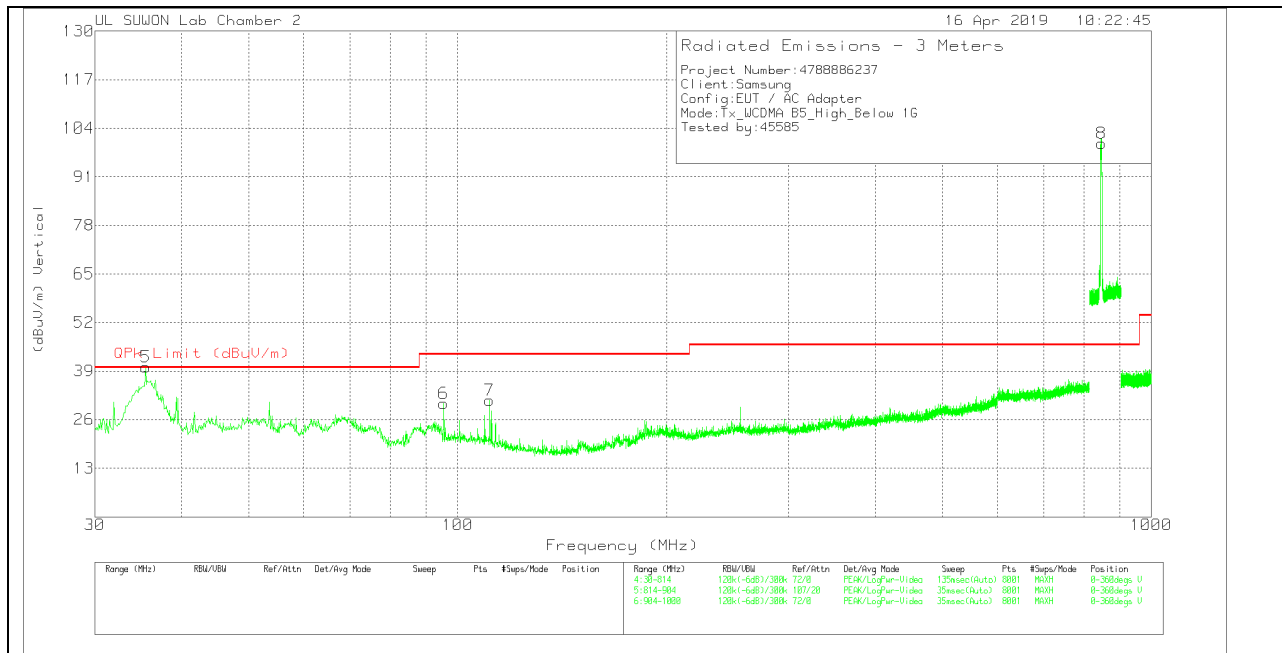
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

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

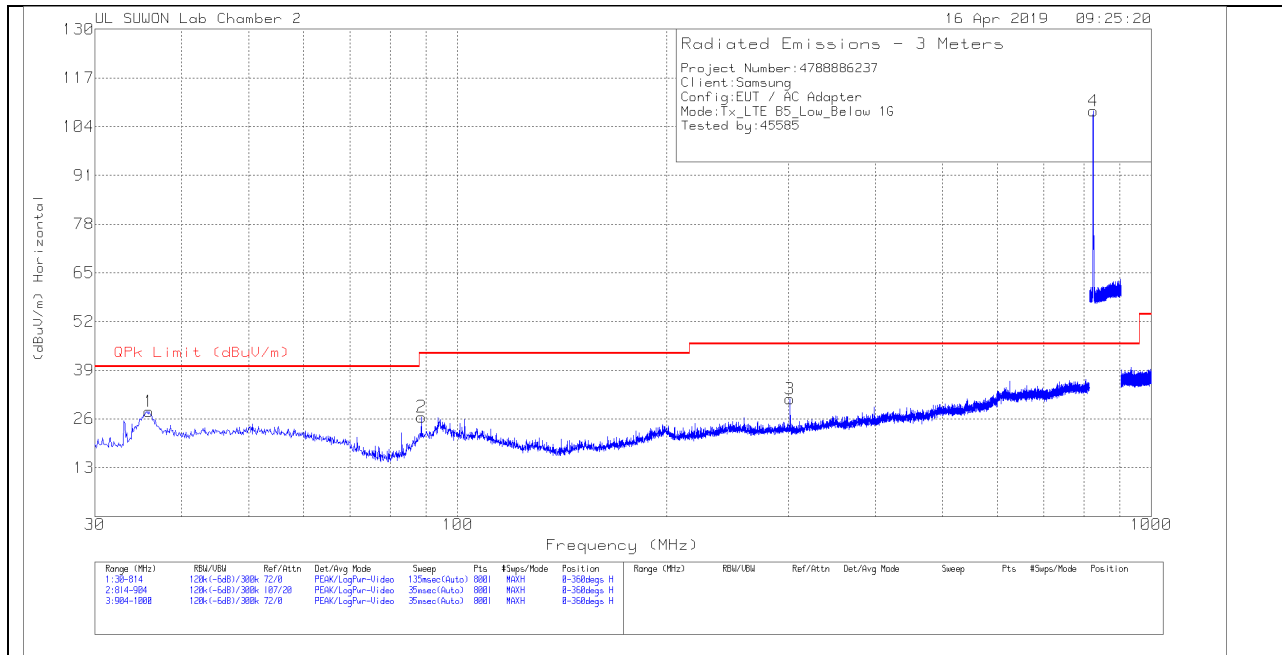
Qp - Quasi-Peak detector

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

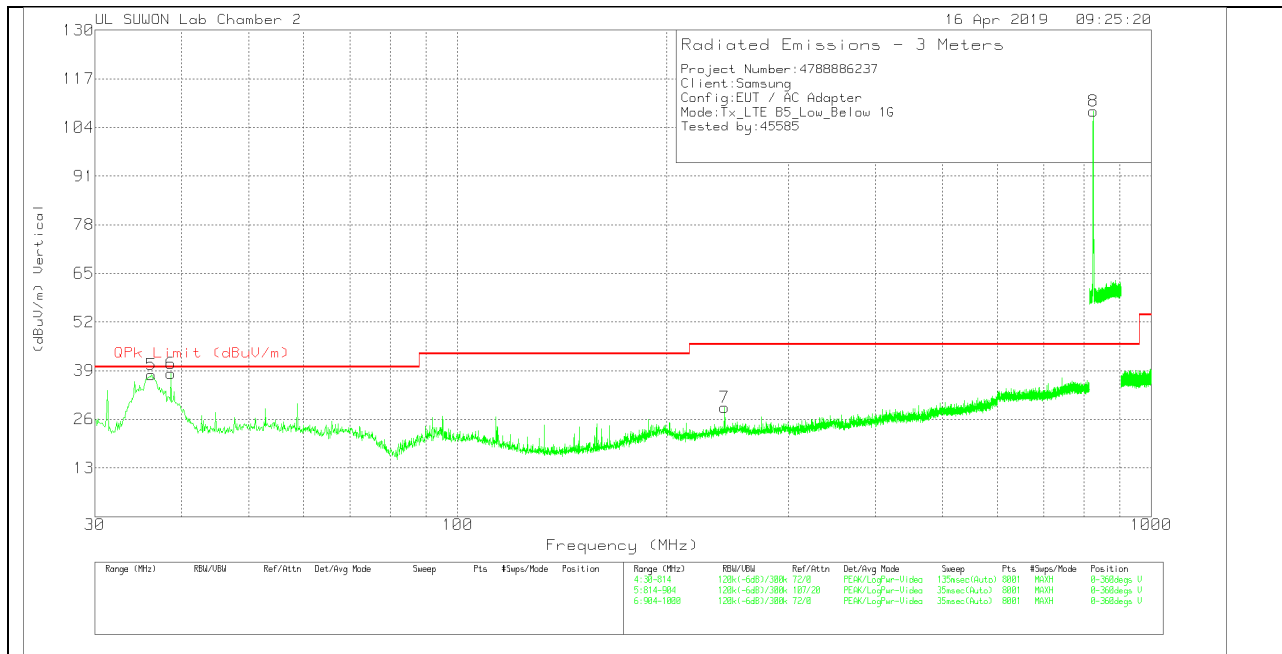
4.9. Below 1 GHz in the LTE Band 5

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

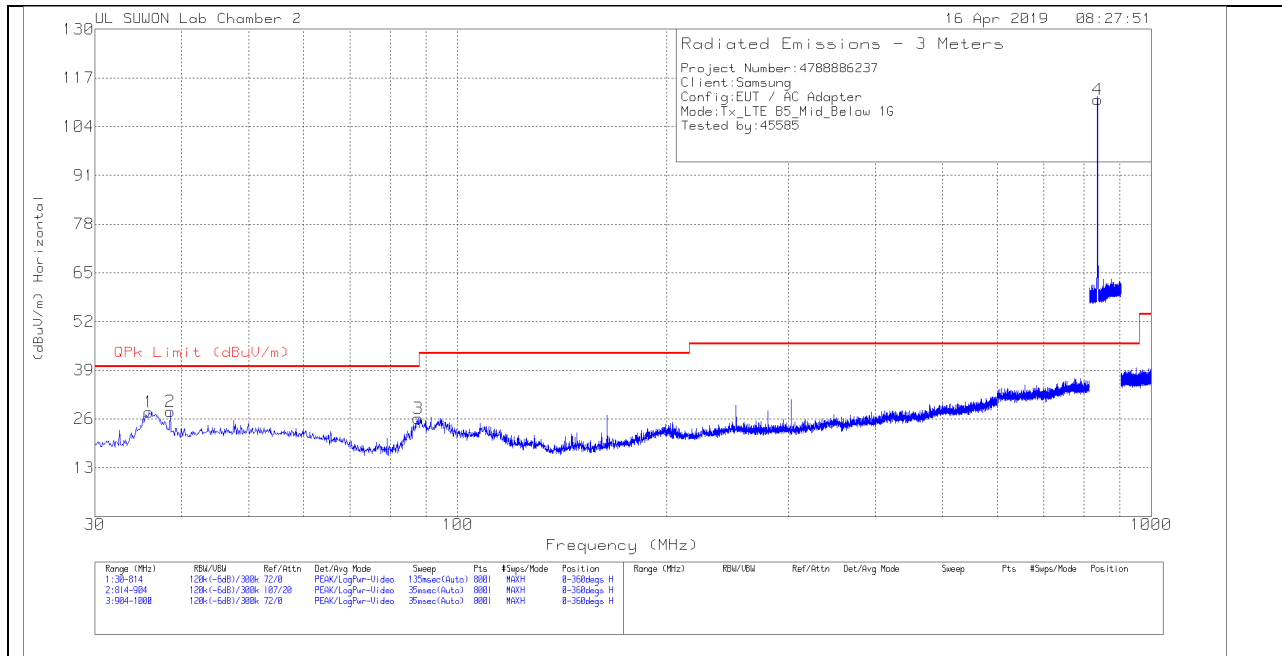
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
38.087	9.05	Qp	17.9	.7	27.65	40	-12.35	0	117	V
38.624	11.25	Qp	18.2	.7	30.15	40	-9.85	0	105	V

Qp - Quasi-Peak detector

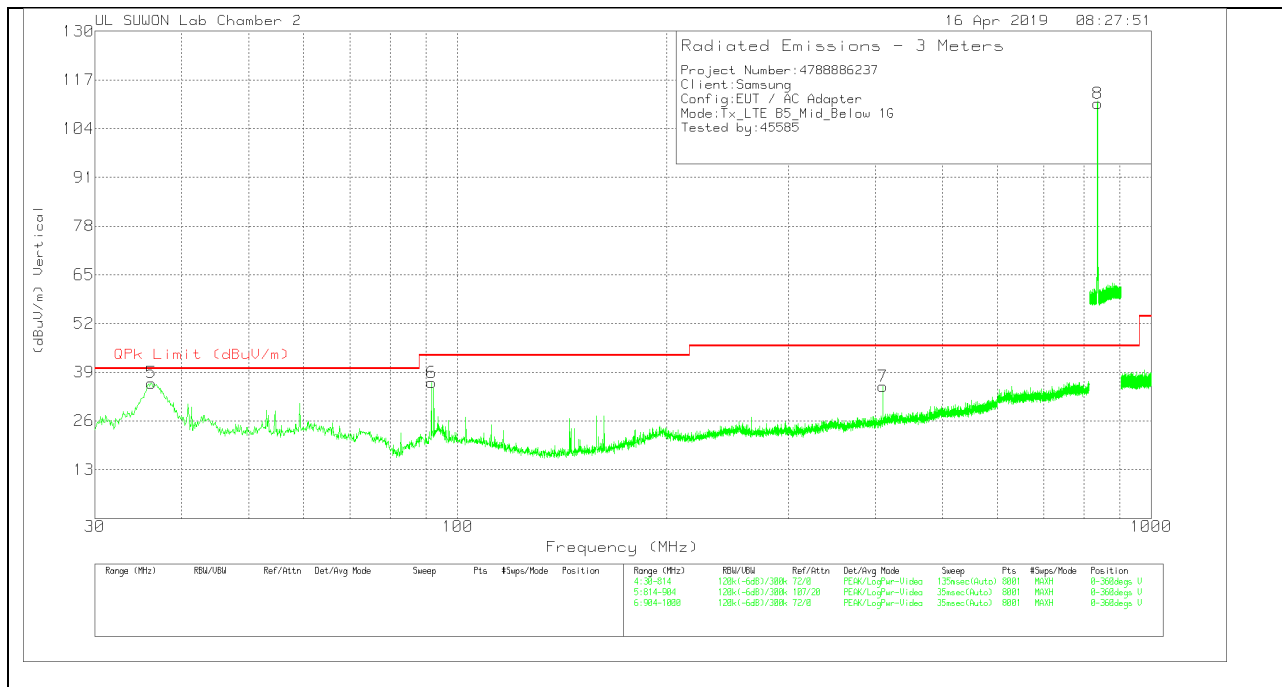
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(881.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

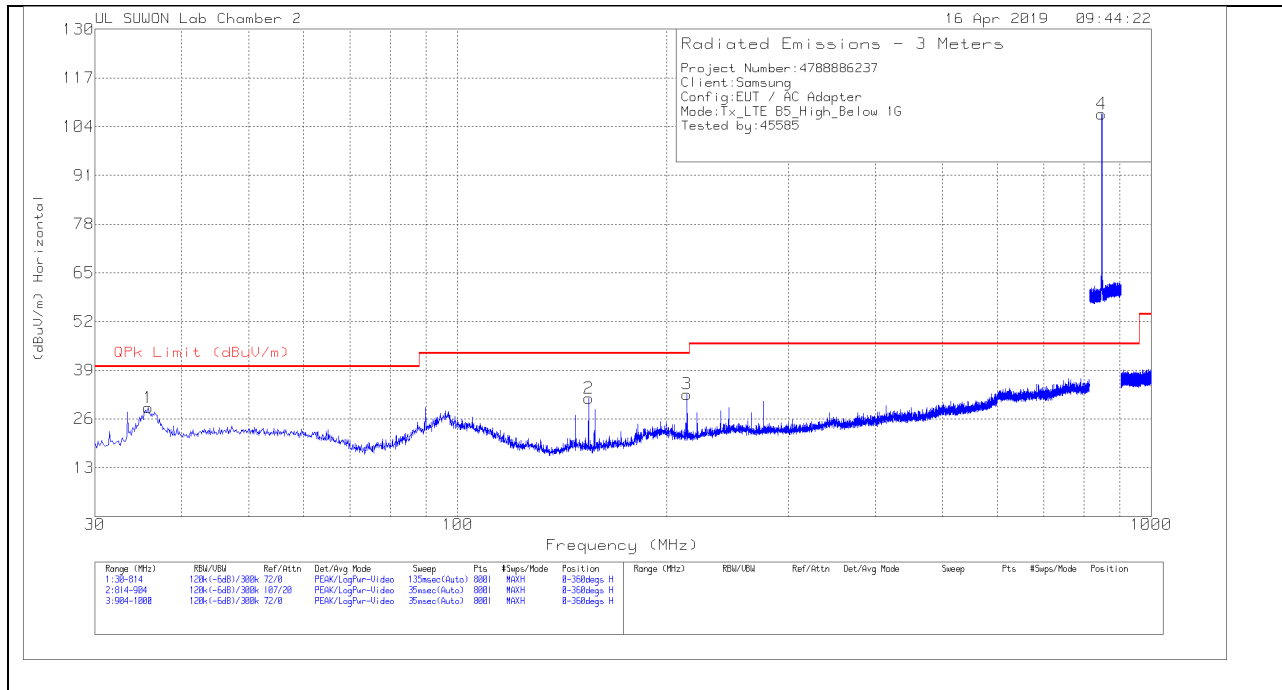
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	35.88	10.05	Pk	17.1	.7	27.85	40	-12.15	0-360	200	H
2	38.526	9.06	Pk	18.2	.7	27.96	40	-12.04	0-360	200	H
3	87.722	10.52	Pk	14.7	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

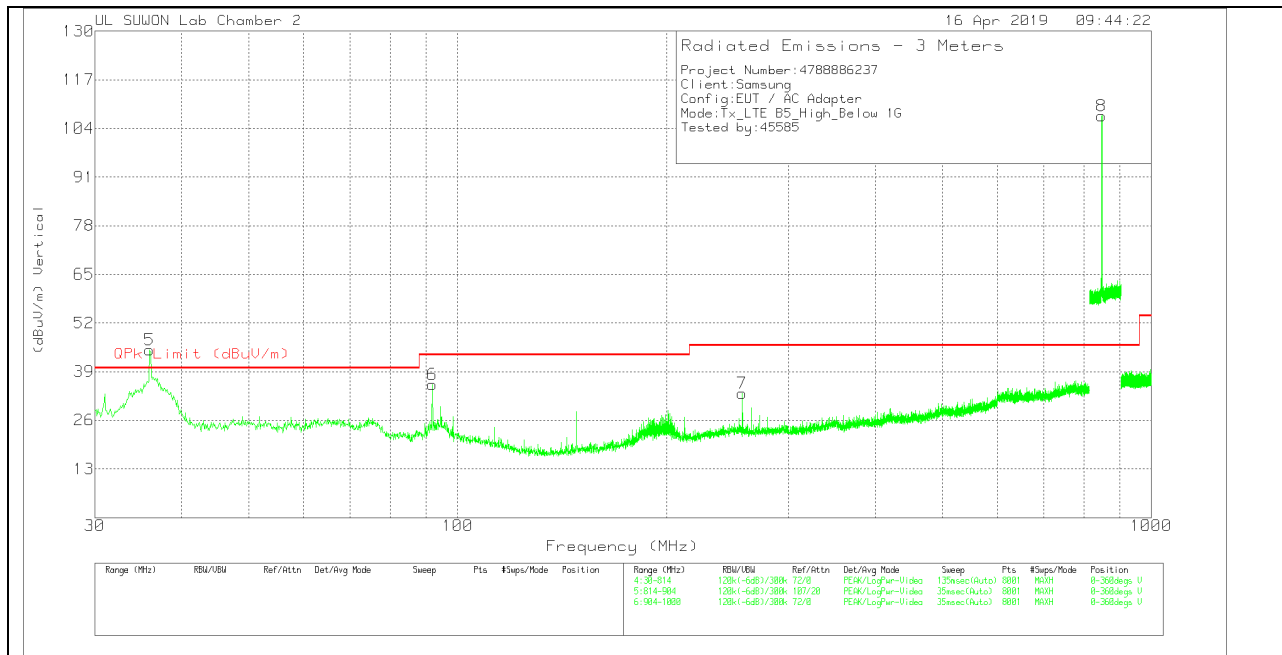
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

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

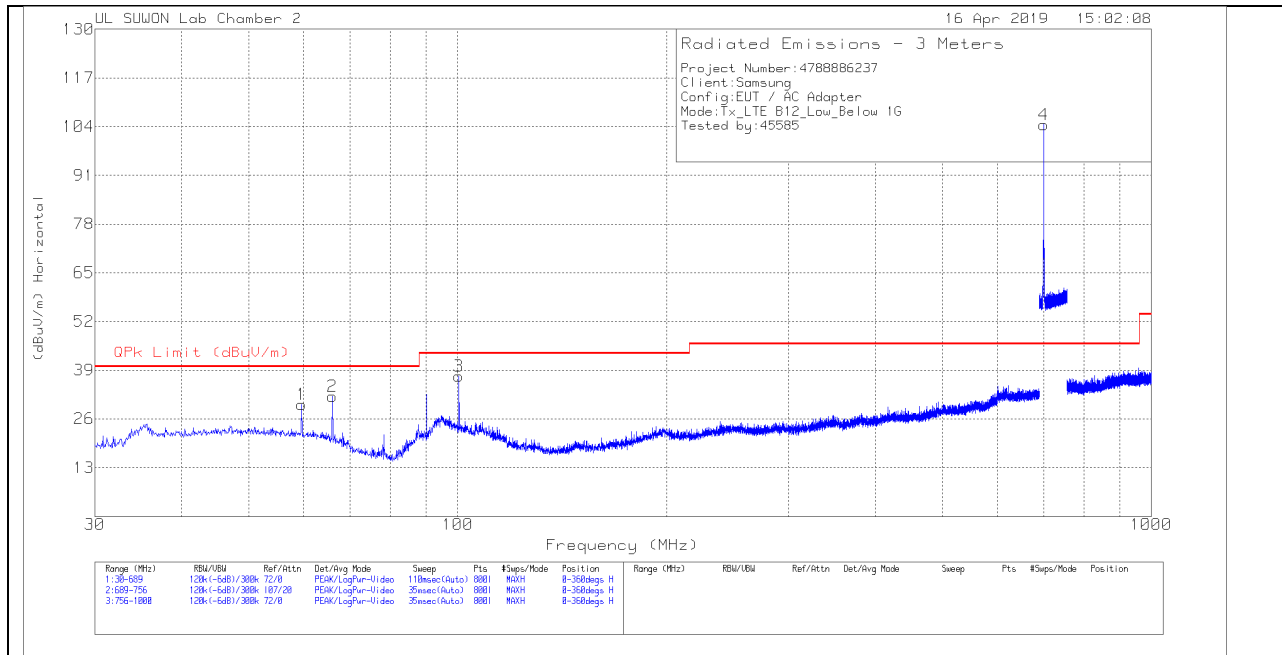
Qp - Quasi-Peak detector

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

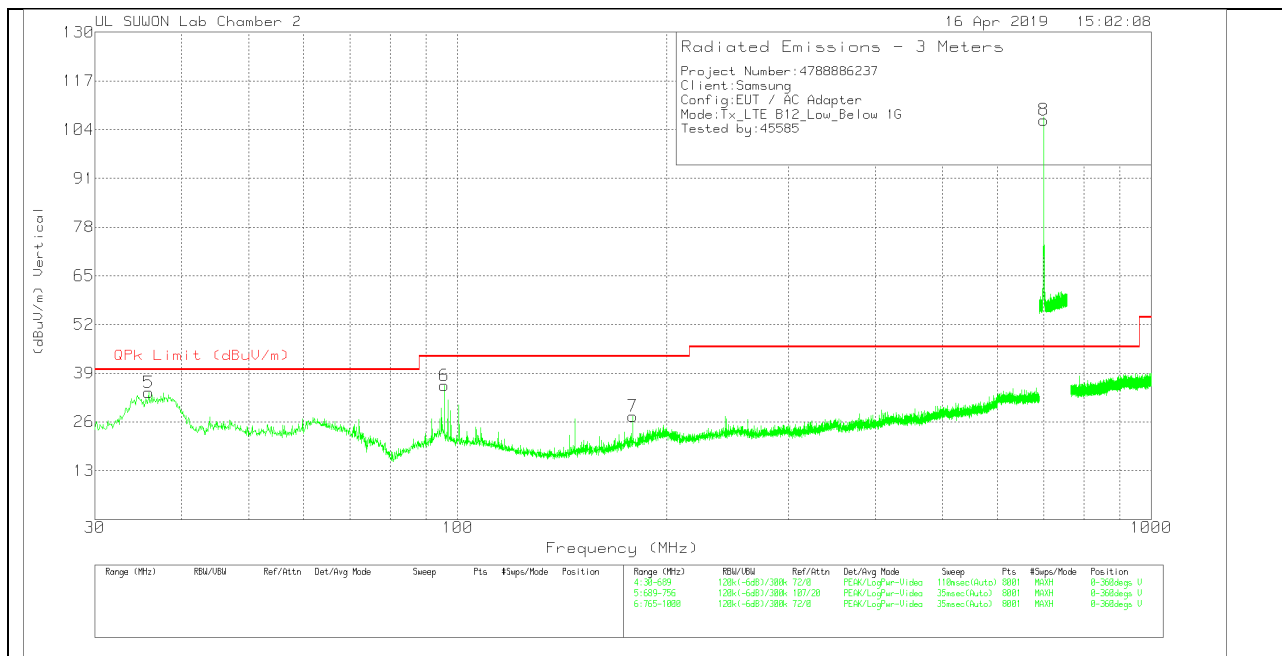
4.10. Below 1 GHz in the LTE Band 12

LOW CHANNEL(730.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

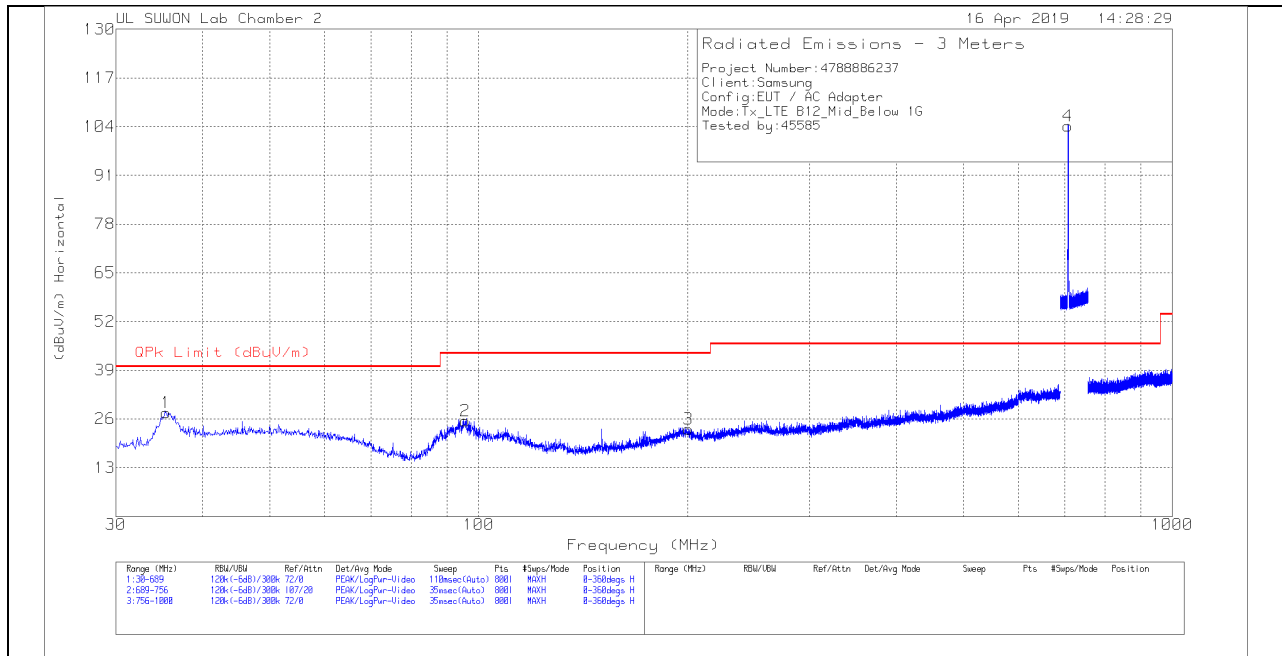
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	59.5726	10.48	Pk	18.6	.8	29.88	40	-10.12	0-360	200	H
2	65.9979	14.16	Pk	16.9	.9	31.96	40	-8.04	0-360	200	H
3	100.4306	18.65	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

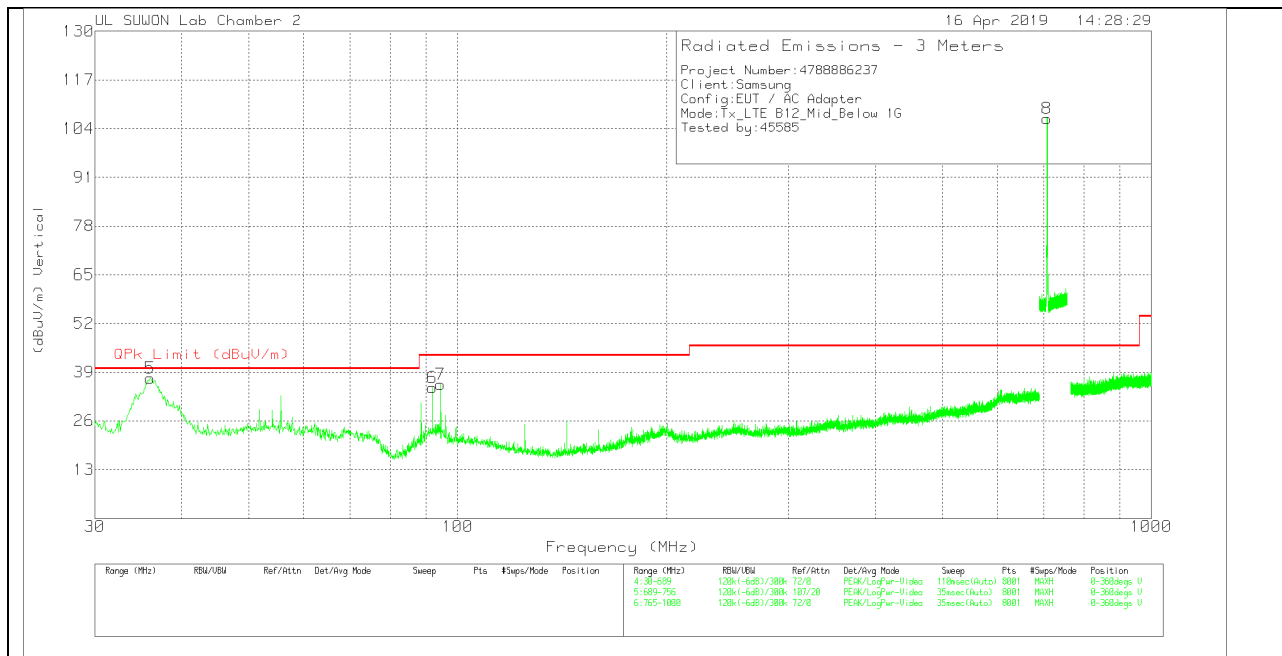
Note: Unwanted emissions captured from 699MHz to 716MHz and from 729MHz to 746MHz were the TX and RX signals generated from the call-simulator.

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

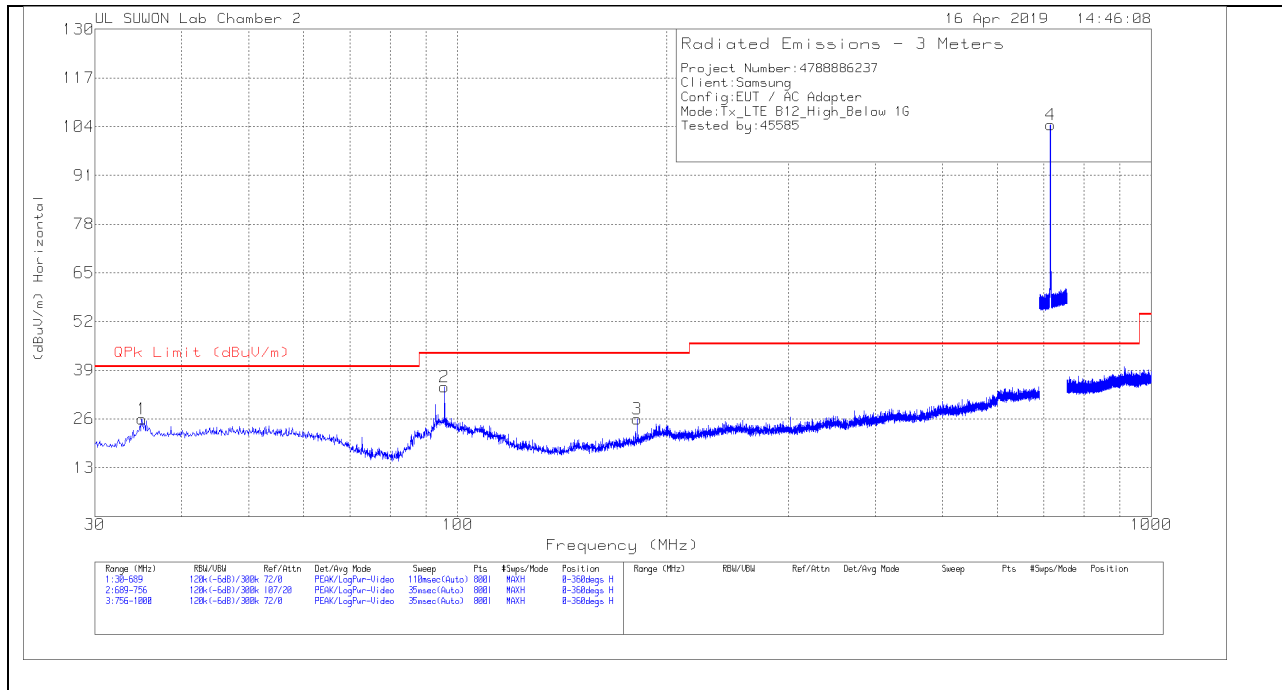
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Bypass_Below_1G [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
36.0134	15.99	Qp	17.1	.6	33.69	40	-6.31	222	101	V

Qp - Quasi-Peak detector

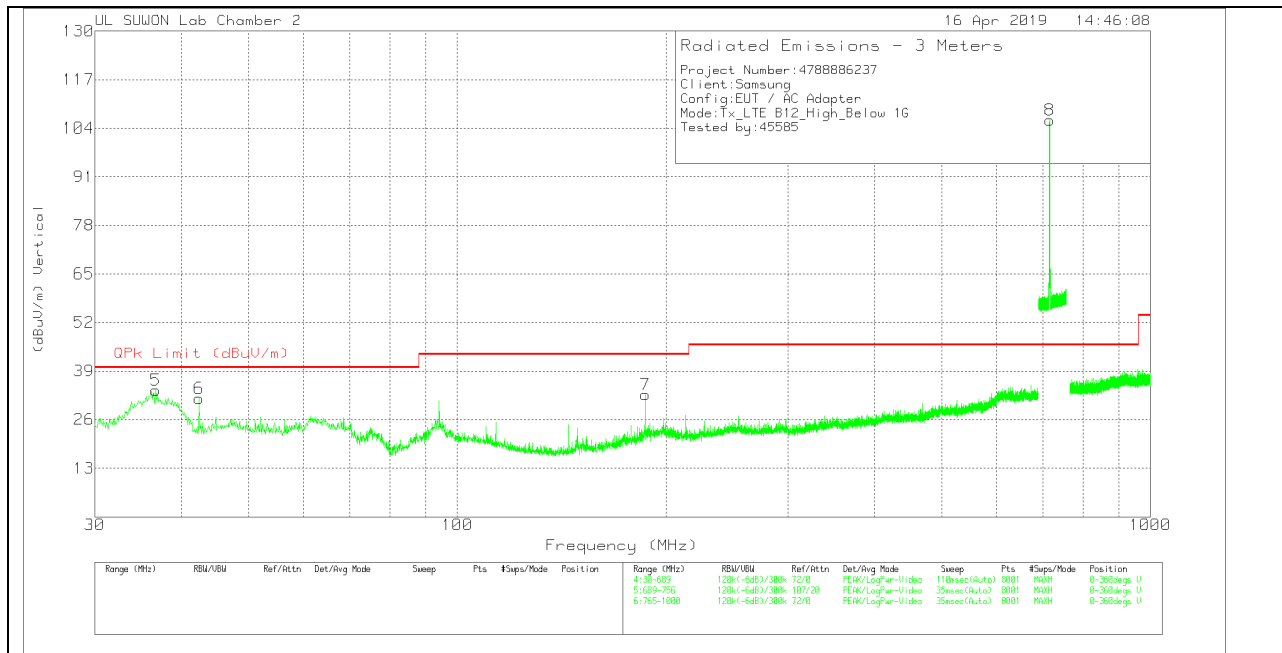
Note: Unwanted emissions captured from 699MHz to 716MHz and from 729MHz to 746MHz were the TX and RX signals generated from the call-simulator.

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.