



CERTIFICATION TEST REPORT

Report Number. : 4789467590-E1V3

Applicant : SAMSUNG ELECTRONICS CO., LTD.
129 SAMSUNG-RO, YEONGTONG-GU, SUWON-SI,
GYEONGGI-DO, 16677, KOREA

Model : SM-F707B, SCG04

FCC ID : A3LSMF707B

EUT Description : GSM/WCDMA/LTE Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax, NFC
and WPT

Test Standard(s) : FCC 47 CFR PART 15 SUBPART B

Date Of Issue:

July 08, 2020

Prepared by:

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ACCREDITED

Testing Laboratory

TL-637

Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V1	06/05/20	Initial issue	Robby, Lee
V2	06/15/20	Updated to address manufacturer's request	Robby, Lee
V3	07/08/20	Updated the description	Robby, Lee

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.
EUT DESCRIPTION: GSM/WCDMA/LTE Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax, NFC and WPT
MODEL NUMBER: SM-F707B, SCG04
SERIAL NUMBER: 43420b68ff1f7ece
DATE TESTED: MAY 29, 2020 – JUN 01, 2020;

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 15B	Pass

UL Korea, Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Korea, Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Korea, Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Korea, Ltd. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by IAS, any agency of the Federal Government, or any agency of any government.

Approved & Released For
UL Korea, Ltd. By:

Tested By:



Junwhan Lee
Suwon Lab Engineer
UL Korea, Ltd.

Robby Lee
Suwon Lab Engineer
UL Korea, Ltd.

2. 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

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea. Line conducted emissions are measured only at the 218 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

218 Maeyeong-ro	
<input type="checkbox"/>	Chamber 1
<input checked="" type="checkbox"/>	Chamber 2
<input type="checkbox"/>	Chamber 3

UL Korea, Ltd. is accredited by IAS, Laboratory Code TL-637. The full scope of accreditation can be viewed at <https://www.iasonline.org/wp-content/uploads/2017/05/TL-637-cert-New.pdf>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$EIRP = \text{PSA reading with EUT worst orientation (dBm)} + \text{Path loss (dB)} - \text{cable loss (between the SG and substitution antenna)} + \text{Substitution Antenna Factor (dBi)}$

$ERP = \text{PSA reading with EUT worst orientation (dBm)} + \text{Path loss (dB)} - \text{cable loss (between the SG and substitution antenna)}$

(Path loss = Signal generator output – PSA reading with substitution antenna)

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Radiated Disturbance, 30 MHz to 1 GHz	3.49 dB
Radiated Disturbance, 1 GHz to 18 GHz	5.82 dB

Uncertainty figures are valid to a confidence level of 95%.

4.4. DECISION RULE

Decision rule for statement(s) of conformity is based on Procedure 1, Clause 4.4.2 in IEC Guide 115:2007.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a GSM/WCDMA/LTE Phone + BT/BLE, DTS/UNII a/b/g/n/ac, NFC and WPT. This test report addresses the WWAN operational mode.

5.2. TEST MODE

Mode	Description
GSM850	Communicating with Call simulator(CMW500)
WCDMA BAND 5	Communicating with Call simulator(CMW500)
LTE BAND 12	Communicating with Call simulator(CMW500)
LTE BAND 13	Communicating with Call simulator(CMW500)
LTE BAND 26	Communicating with Call simulator(CMW500)

5.3. WORST-CASE ORIENTATION AND MODE

The status of EUT was considered in three conditions(Open, Fully folded and Half folded).
(Please refer to setup photo)

For GSM850 / WCDMA B5 / LTE 26, EUT was investigated in three orthogonal orientations X, Y and Z for three status it was determined that X orientation of Open was worst-case orientation.

For LTE B13, EUT was investigated in three orthogonal orientations X, Y and Z for three status it was determined that X orientation of Half folded was worst-case orientation.

For LTE B12, EUT was investigated in three orthogonal orientations X, Y and Z for three status it was determined that Y orientation of Half folded was worst-case orientation.

Note : The EUT is continuously communicated with the call box during the tests. Also attached with travel adapter for the worst case condition.

WCDMA Band 5

WCDMA Band 5 (Frequency range: 824-849 MHz) is covered by GSM 850 (Frequency range: 824-849 MHz) due to same frequency range and maximum tune-up limit is higher than WCDMA Band 5. Therefore, only Mid channel was checked.

LTE Band 5

LTE Band 5 (Frequency range: 824-849 MHz) is covered by LTE Band 26 (Frequency range: 814-849 MHz) due to overlapping frequency range, same maximum tune-up limit and same channel bandwidth.

LTE Band 17

LTE Band 17 (Rx Frequency range: 734-746 MHz) is covered by LTE Band 12 (Rx Frequency range: 729-746 MHz) due to overlapping frequency range, same maximum tune-up limit and same channel bandwidth.

5.4. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Charger	SAMSUNG	EP-TA200	R37M7QS0NL1DK3	N/A
Data Cable	SAMSUNG	EP-DF700	N/A	N/A
Earphone	SAMSUNG	GH59-15252A	N/A	N/A

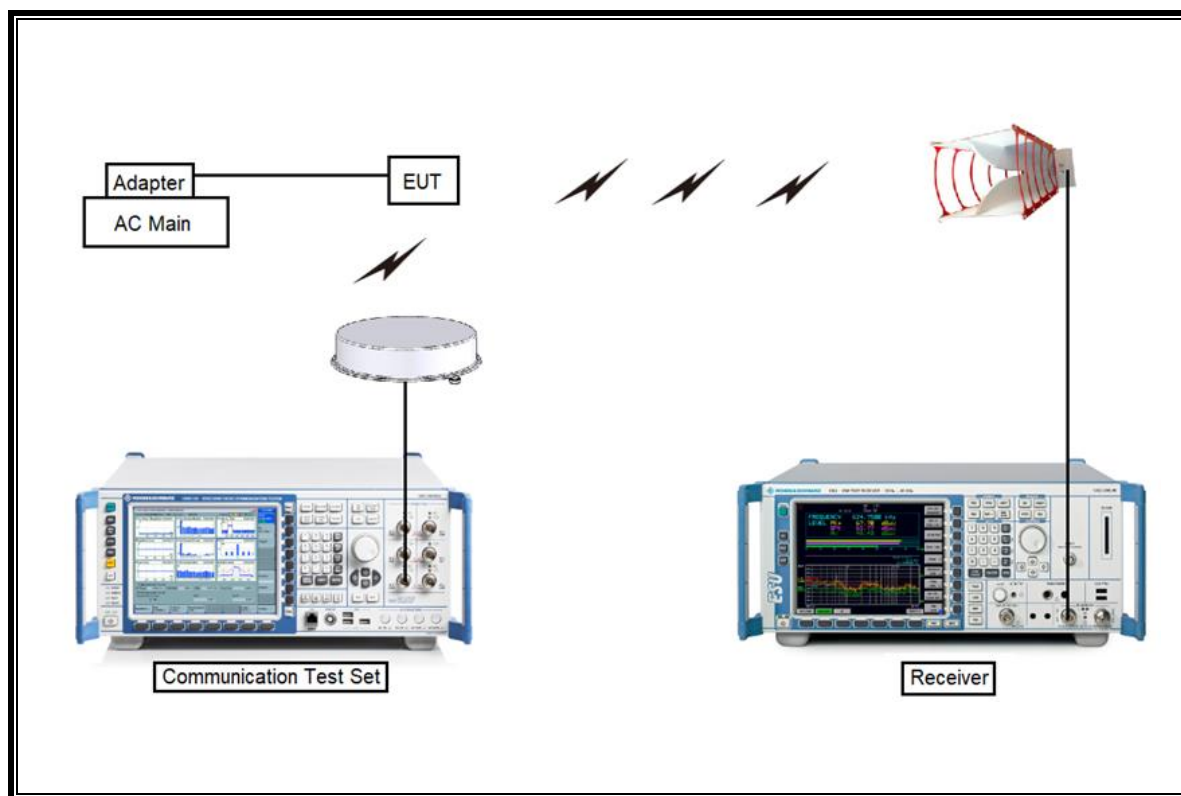
I/O CABLE

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	1.0m	N/A

TEST SETUP

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

SETUP DIAGRAM FOR TESTS (RADIATED TEST SETUP)



6. 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	01-31-21
Antenna, Horn, 40 GHz	ETS	3116C	00166155	08-13-20
Preamplifier	ETS	3116C-PA	00168841	08-08-20
Antenna, Horn, 40 GHz	ETS	3116C	00168645	10-02-21
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	08-05-20
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY58010202	02-05-21
Preamplifier, 1000 MHz	Sonoma	310N	341282	08-05-20
Preamplifier, 1000 MHz	Sonoma	310N	370599	08-05-20
Preamplifier, 1000 MHz	Sonoma	310N	351741	08-05-20
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1876511	08-06-20
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	2029169	08-06-20
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1896138	08-06-20
EMI Test Receive, 40 GHz	R&S	ESU40	100439	08-06-20
EMI Test Receive, 40 GHz	R&S	ESU40	100457	08-06-20
EMI Test Receive, 44 GHz	R&S	ESW40	101590	08-05-20
Directional Antenna	Cobham	FPA3-0.8-6.0R/1329	80108-0004	N/A
Directional Antenna	Cobham	FPA3-0.8-6.0R/1329	110367-0003	N/A
High Pass Filter 1.2GHz	Micro-Tronics	HPM50108-02	G005	08-05-20
High Pass Filter 1.2GHz	Micro-Tronics	HPM50108-02	G006	08-05-20
High Pass Filter 2.8GHz	Micro-Tronics	HPM50111-02	010	08-05-20
High Pass Filter 2.8GHz	Micro-Tronics	HPM50111-02	011	08-05-20
High Pass Filter 4GHz	Micro-Tronics	HPM50118-02	G001	08-05-20
High Pass Filter 4GHz	Micro-Tronics	HPM50118-02	G002	08-05-20
Attenuator	PASTERNAK	PE7087-10	A009	08-08-20
Attenuator	PASTERNAK	PE7087-10	A001	08-08-20
Attenuator	PASTERNAK	PE7087-10	A008	08-08-20
Attenuator	PASTERNAK	PE7087-10	2	08-08-20
Attenuator	PASTERNAK	PE7395-10	A011	08-08-20
UL Software				
Description	Manufacturer	Model	Version	
Radiated software	UL	UL EMC	Ver 9.5	

7. APPLICABLE LIMITS AND TEST RESULTS

TEST PROCEDURE

ANSI C63.4: 2014

LIMIT

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

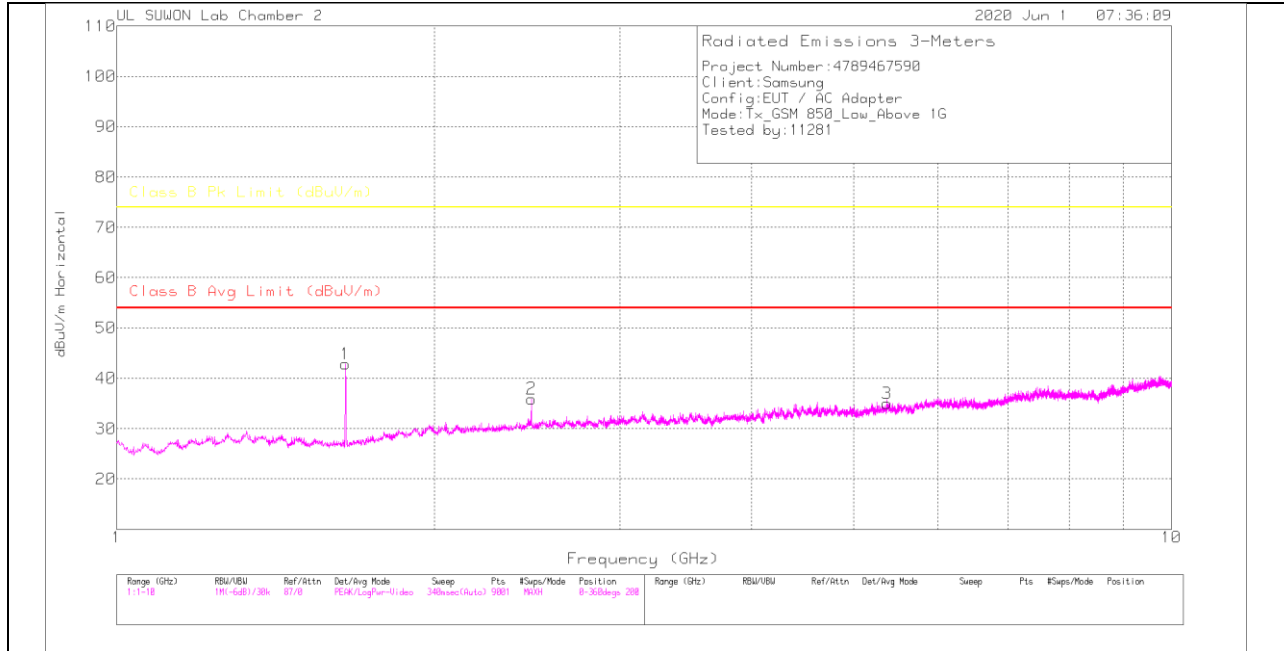
Limits for radiated disturbance of Class B ITE at measuring distance of 3 m	
Frequency range (MHz)	Quasi-peak limits (dB μ V/m)
30 to 88	40
88 to 216	43.5
216 to 960	46
Above 960 MHz	54

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

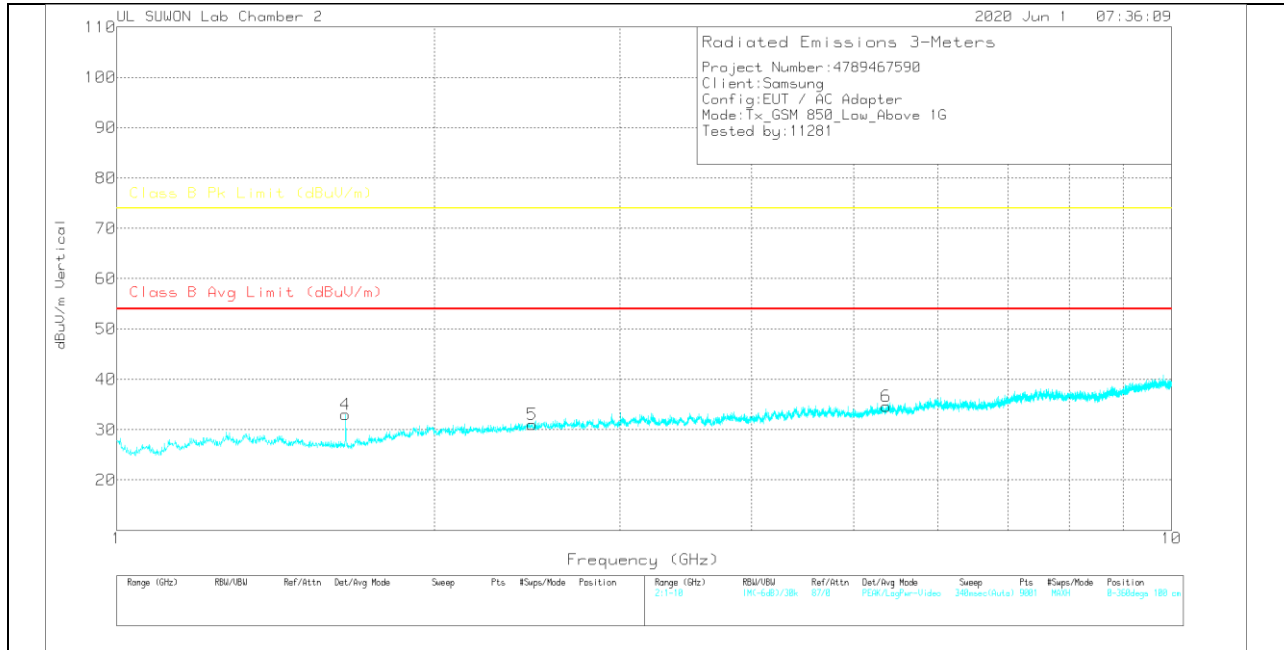
7.1. Above 1 GHz in the GSM850

LOW CHANNEL(869.2 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

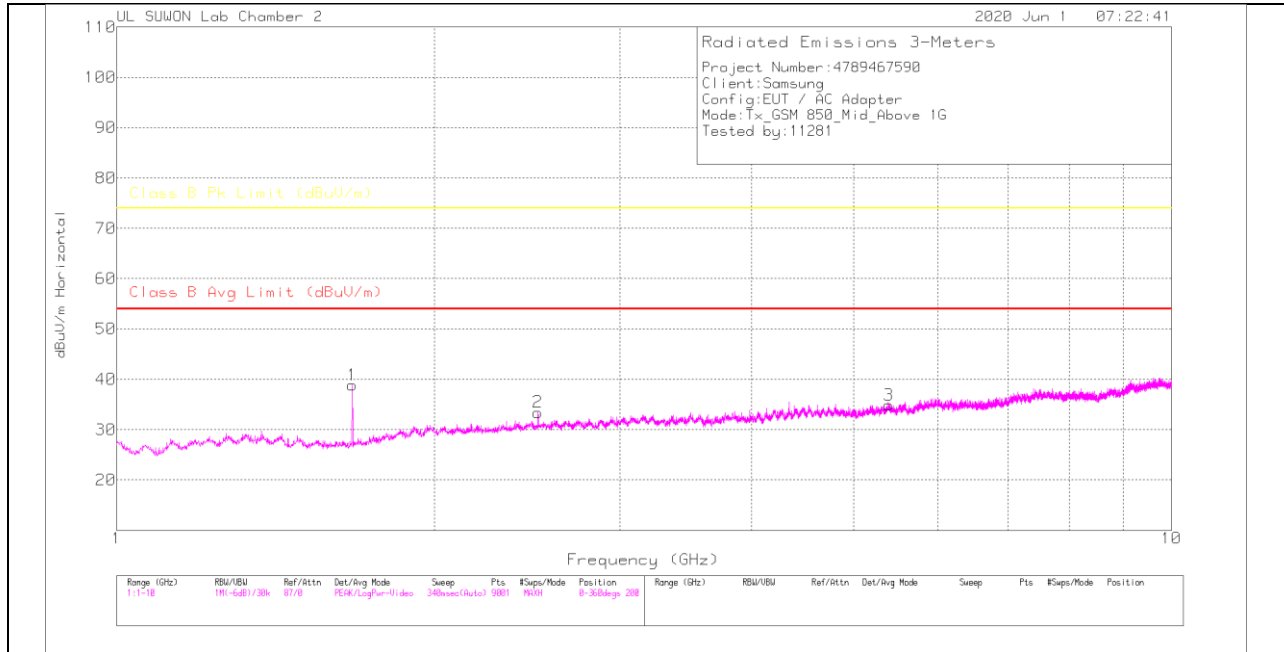
Marker	Frequency (GHz)	Meter Reading (dBu)	Det	3117_00168724	1-18GHz[dB]	1GHz_HP[dB]	Corrected Reading dBu/m	Class B Avg Limit (dBu/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBu/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.648	45.28	PK	28.3	-31.4	.7	42.88	-	-	74	-31.12	0-360	200	H
2	2.472	33.44	PK	31.8	-30	.7	35.94	-	-	74	-38.06	0-360	100	H
3	5.376	28.16	PK	34.5	-28.1	.5	35.06	-	-	74	-38.94	0-360	100	H
4	1.648	35.44	PK	28.3	-31.4	.7	33.04	-	-	74	-40.96	0-360	200	V
5	2.477	28.46	PK	31.9	-30	.7	31.06	-	-	74	-42.94	0-360	100	V
6	5.369	27.75	PK	34.5	-28.1	.5	34.65	-	-	74	-39.35	0-360	200	V

PK – Peak Detector

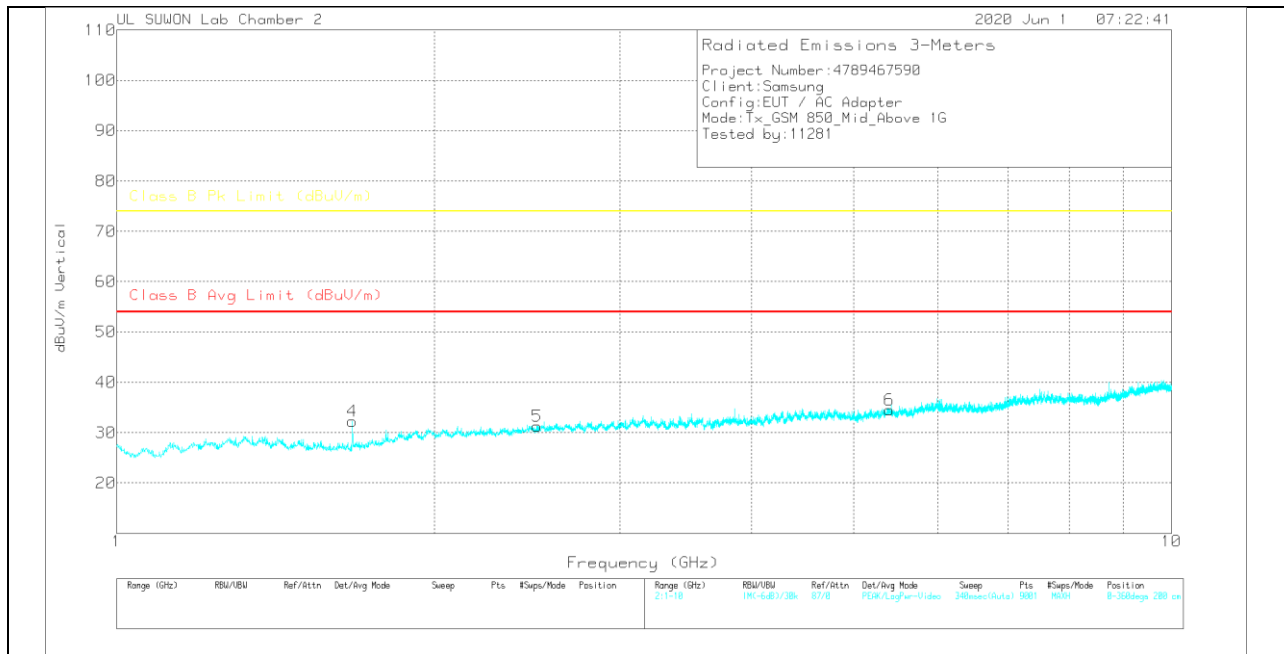
Note: Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

MID CHANNEL(881.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

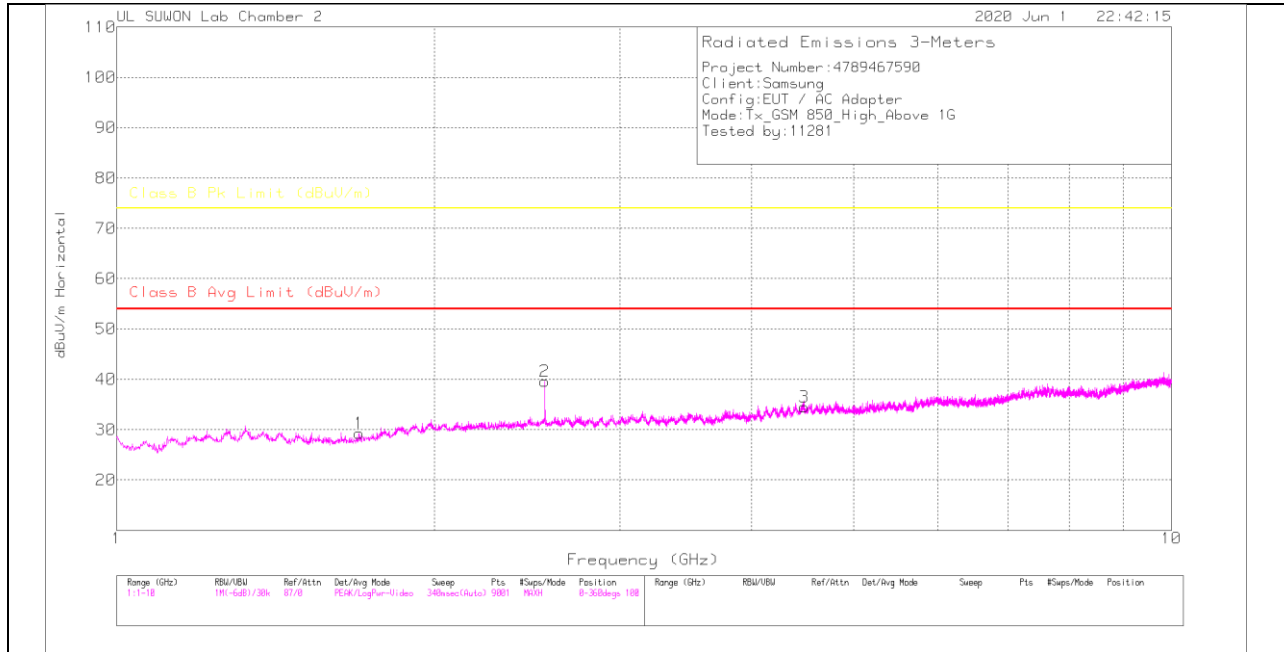
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HP(dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.673	40.96	PK	28.5	-31.3	.7	38.86	-	-	74	-35.14	0-360	100	H
2	2.509	30.95	PK	31.9	-30.1	.7	33.45	-	-	74	-40.55	0-360	100	H
3	5.392	27.91	PK	34.5	-28	.5	34.91	-	-	74	-39.09	0-360	100	H
4	1.673	34.42	PK	28.5	-31.3	.7	32.32	-	-	74	-41.68	0-360	100	V
5	2.504	28.8	PK	31.9	-30.1	.7	31.3	-	-	74	-42.7	0-360	200	V
6	5.399	27.44	PK	34.5	-27.9	.5	34.54	-	-	74	-39.46	0-360	100	V

PK – Peak Detector

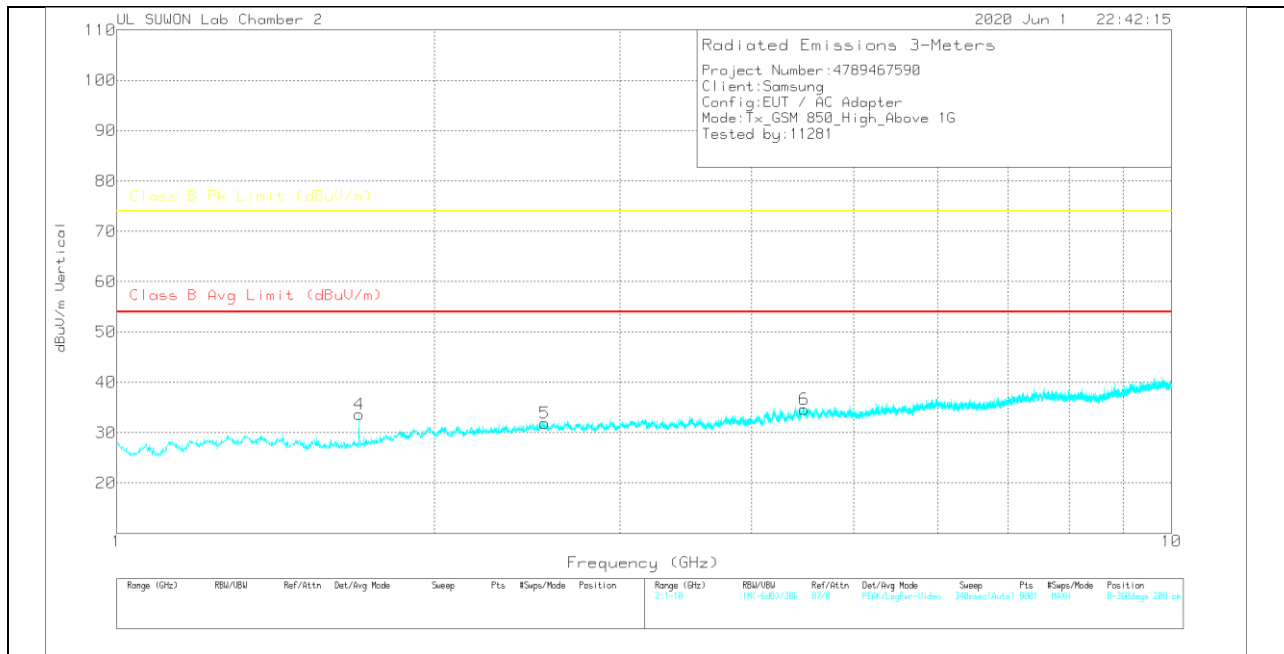
Note: Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

HIGH CHANNEL(893.8 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HP(dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.697	31.19	PK	28.6	-31.2	.7	29.29	-	-	74	-44.71	0-360	100	H
2	2.546	37.01	PK	32	-30.1	.7	39.61	-	-	74	-34.39	0-360	100	H
3	4.486	28.52	PK	33.8	-28.3	.5	34.52	-	-	74	-39.48	0-360	100	H
4	1.697	35.51	PK	28.6	-31.2	.7	33.61	-	-	74	-40.39	0-360	200	V
5	2.546	29.25	PK	32	-30.1	.7	31.85	-	-	74	-42.15	0-360	100	V
6	4.487	28.65	PK	33.8	-28.3	.5	34.65	-	-	74	-39.35	0-360	200	V

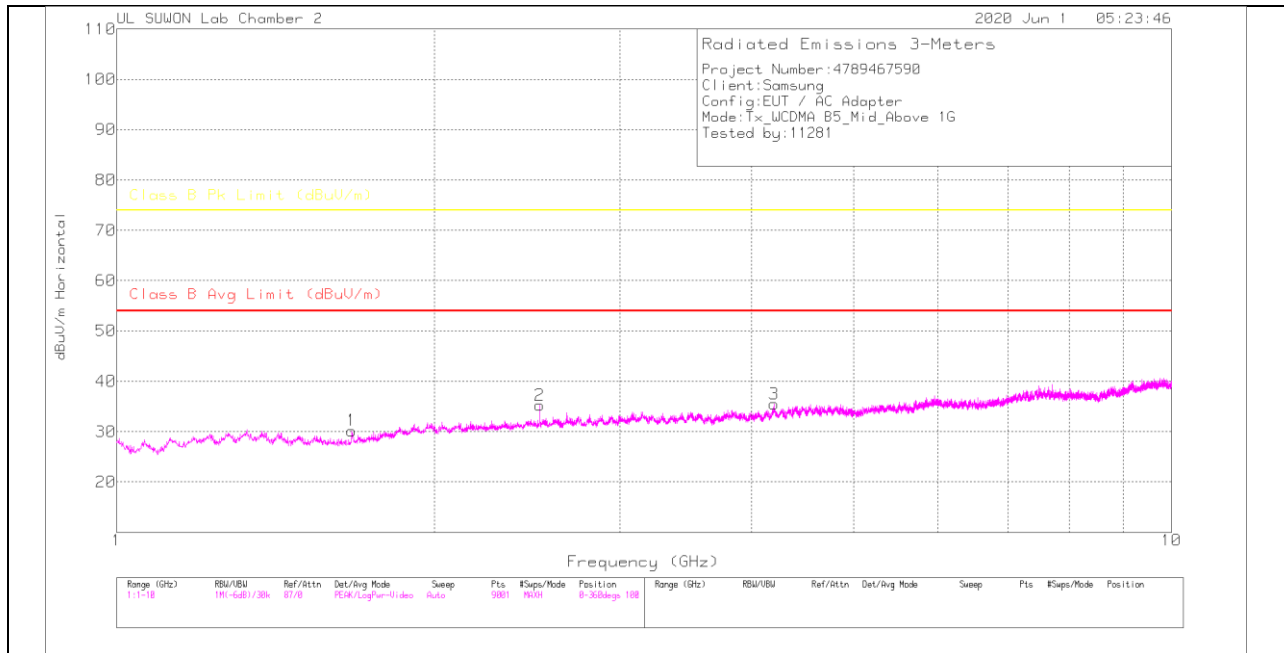
PK – Peak Detector

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

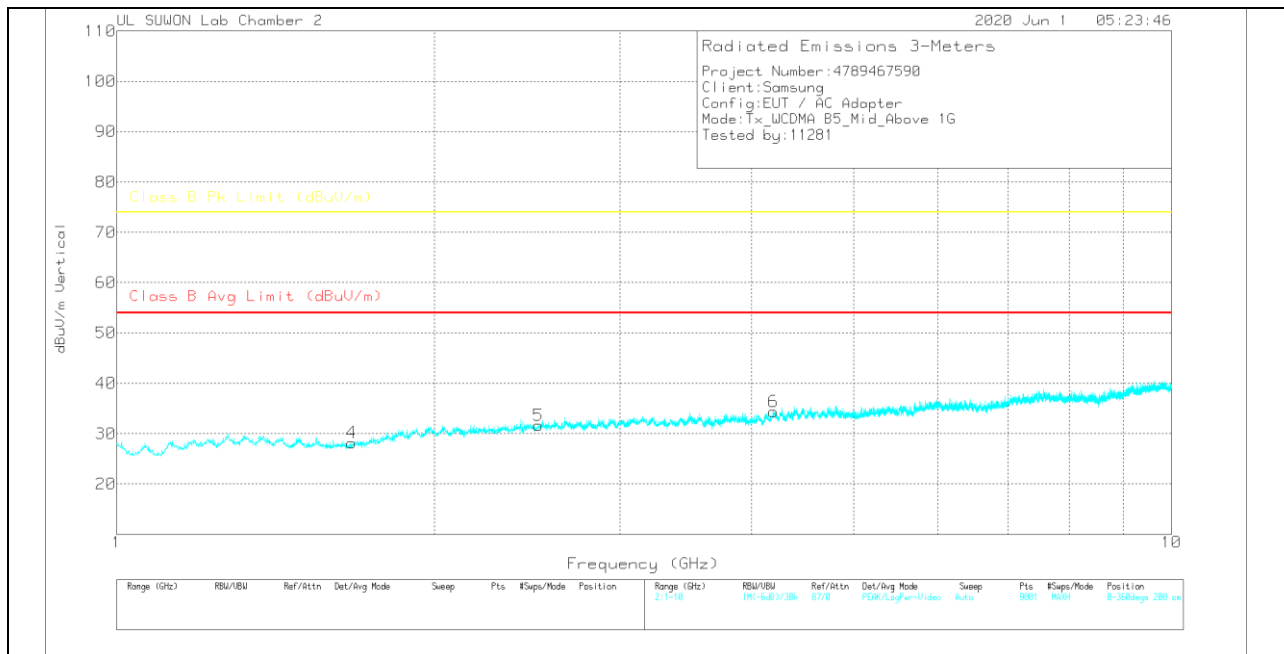
7.2. Above 1 GHz in the WCDMA Band 5

MID CHANNEL(881.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HP(dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.671	32.31	PK	28.5	-31.3	.7	30.21	-	-	74	-43.79	0-360	100	H
2	2.518	32.86	PK	31.9	-30.2	.7	35.26	-	-	74	-38.74	0-360	200	H
3	4.198	29.85	PK	33.4	-28.2	.5	35.55	-	-	74	-38.45	0-360	200	H
4	1.671	30.31	PK	28.5	-31.3	.7	28.21	-	-	74	-45.79	0-360	200	V
5	2.512	29.19	PK	31.9	-30.1	.7	31.69	-	-	74	-42.31	0-360	100	V
6	4.195	28.57	PK	33.4	-28.1	.5	34.37	-	-	74	-39.63	0-360	100	V

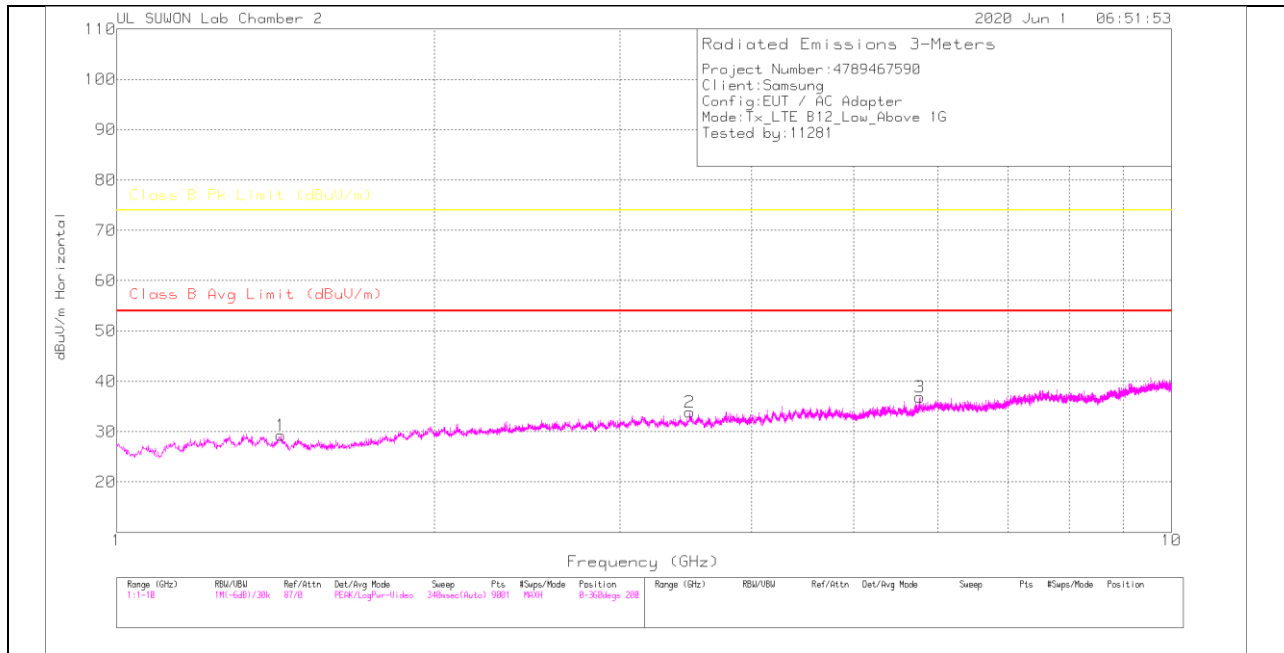
PK – Peak Detector

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

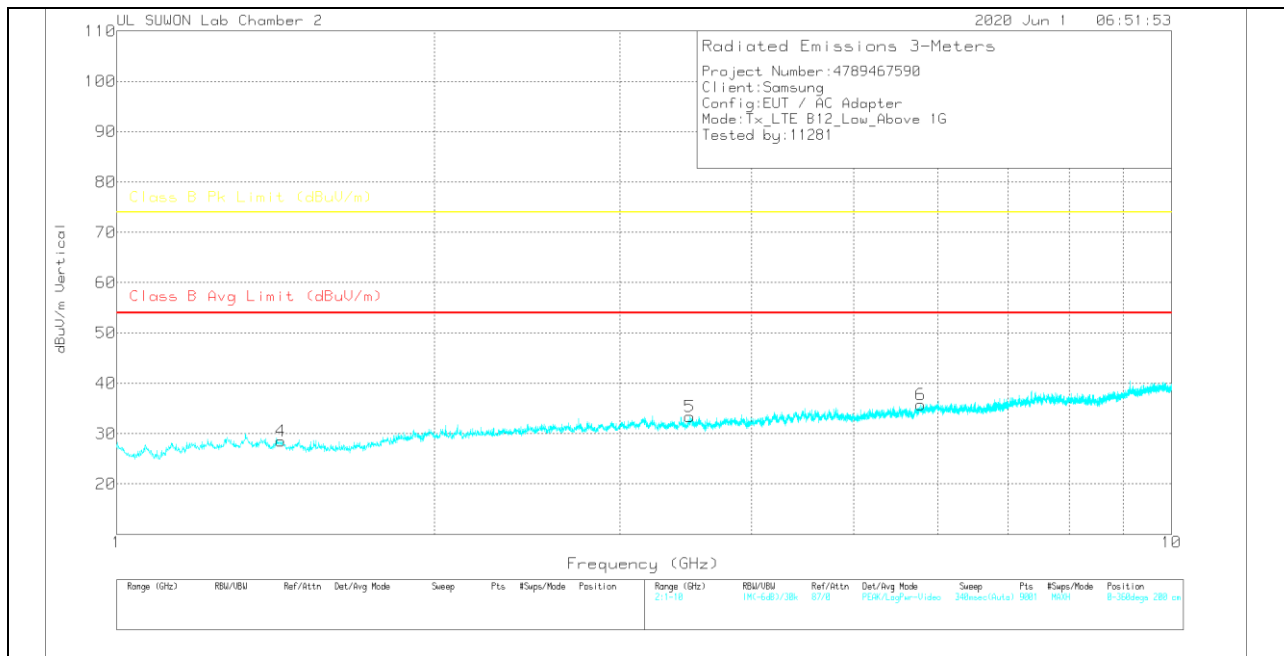
7.3. Above 1 GHz in the LTE Band 12

LOW CHANNEL(731.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

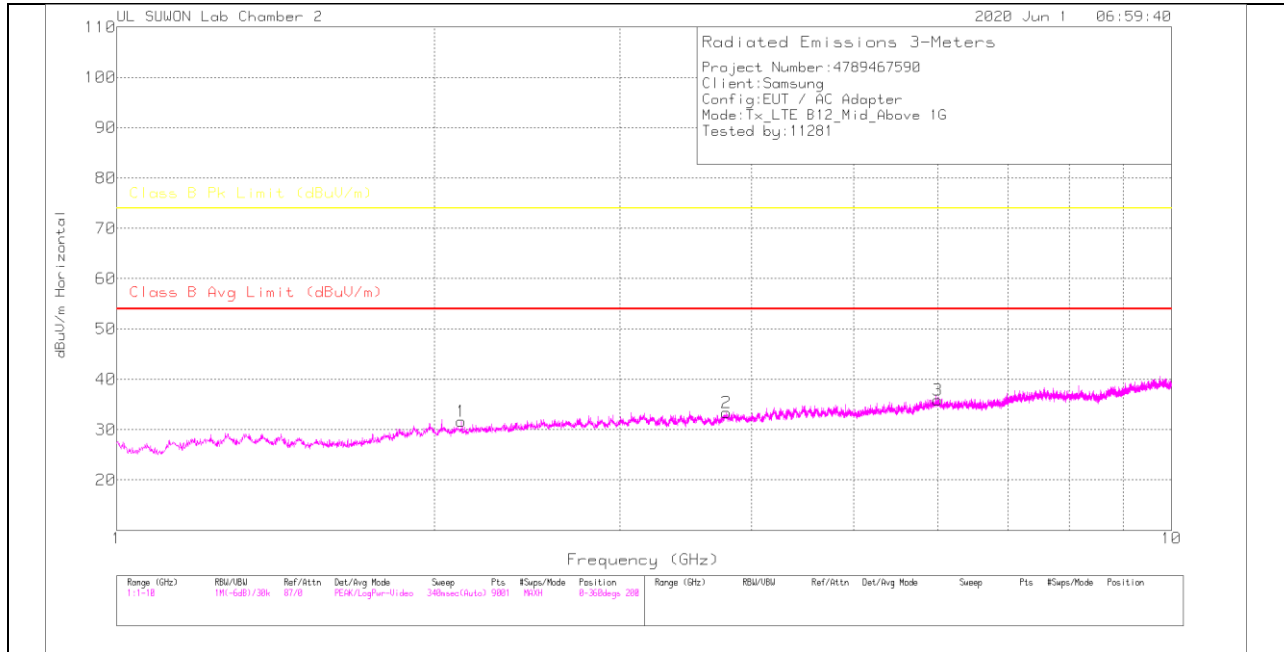
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HP(dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.431	31	PK	29.2	-31.6	.7	29.3	-	-	74	-44.7	0-360	200	H
2	3.494	29.4	PK	32.7	-28.8	.6	33.9	-	-	74	-40.1	0-360	100	H
3	5.773	28.75	PK	34.8	-27.2	.5	36.85	-	-	74	-37.15	0-360	100	H
4	1.431	30.22	PK	29.2	-31.6	.7	28.52	-	-	74	-45.48	0-360	200	V
5	3.494	28.83	PK	32.7	-28.8	.6	33.33	-	-	74	-40.67	0-360	200	V
6	5.786	27.51	PK	34.8	-27.1	.5	35.71	-	-	74	-38.29	0-360	200	V

PK – Peak Detector

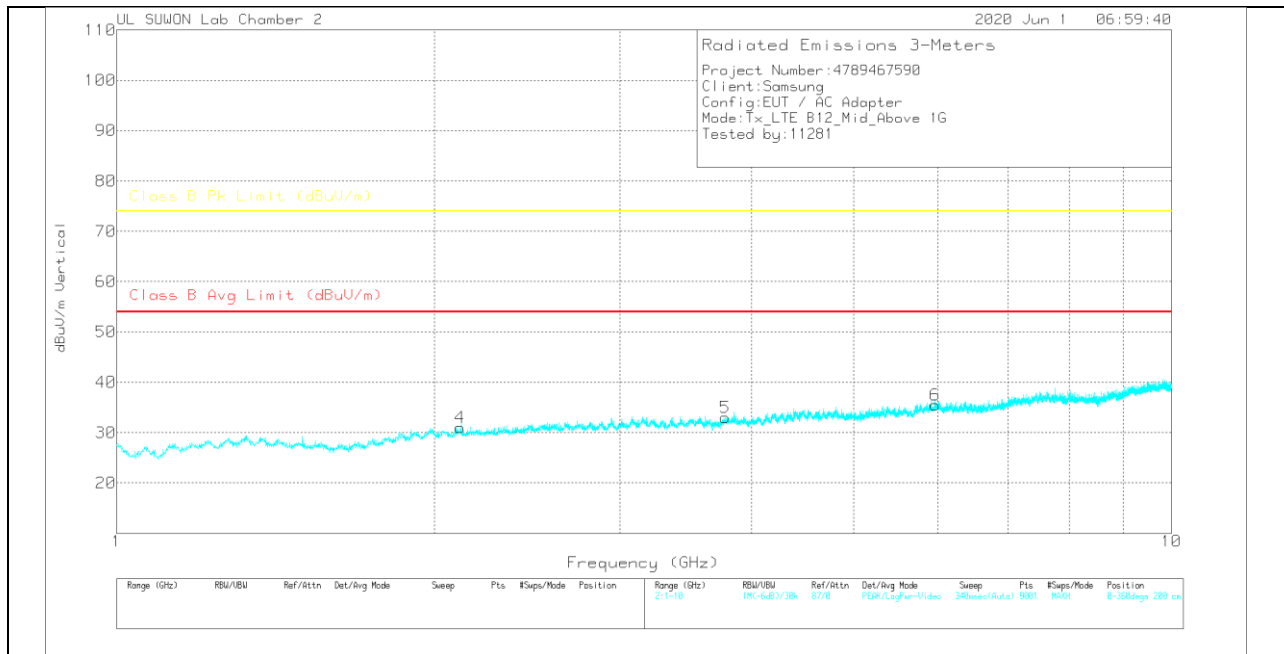
Note: Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

MID CHANNEL(737.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

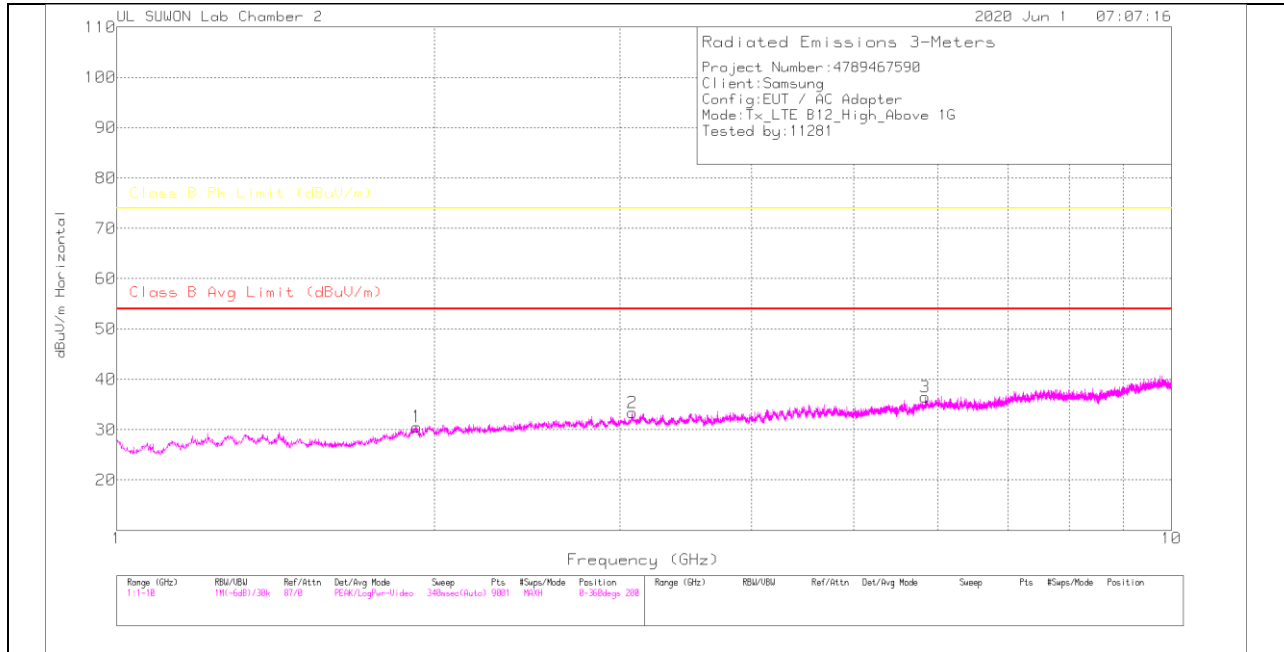
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HP(dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.122	30.14	PK	31.3	-30.5	.7	31.64	-	-	74	-42.36	0-360	200	H
2	3.785	28.57	PK	33.2	-29	.6	33.37	-	-	74	-40.63	0-360	200	H
3	6.005	27.82	PK	35	-27.4	.5	35.92	-	-	74	-38.08	0-360	100	H
4	2.116	29.66	PK	31.3	-30.6	.7	31.06	-	-	74	-42.94	0-360	100	V
5	3.775	28.28	PK	33.2	-29.1	.6	32.98	-	-	74	-41.02	0-360	200	V
6	5.973	27.46	PK	35	-27.4	.5	35.56	-	-	74	-38.44	0-360	100	V

PK – Peak Detector

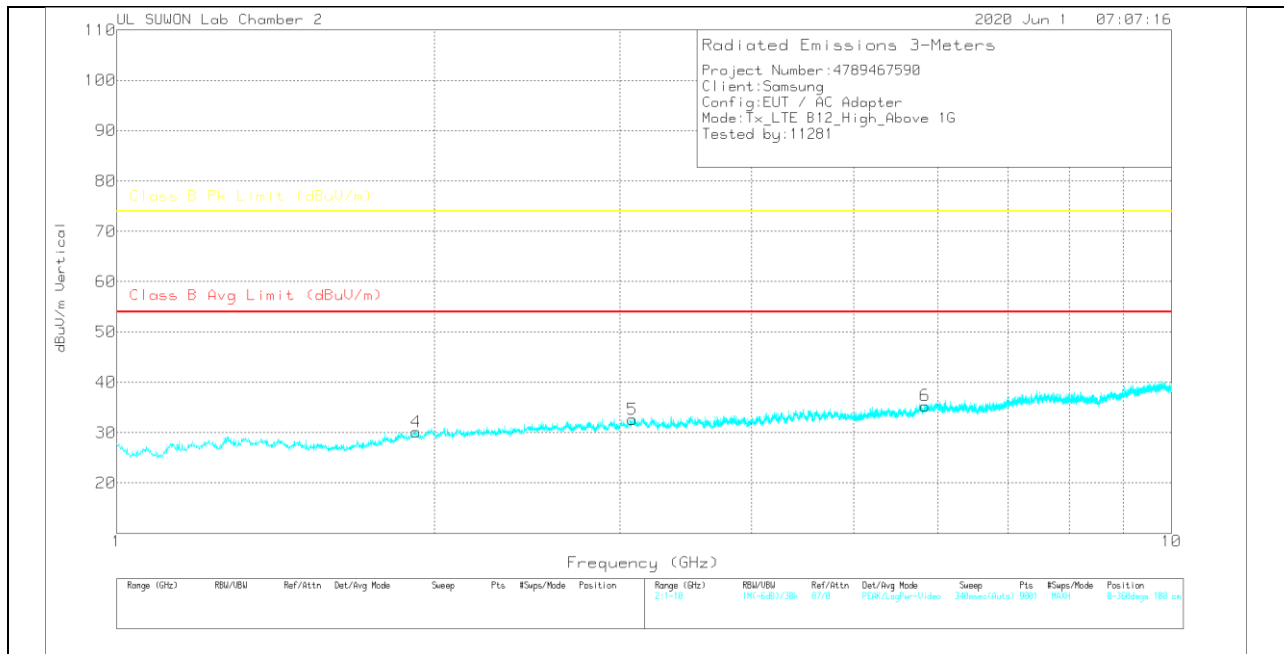
Note: Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

HIGH CHANNEL(743.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HP(dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.925	29.88	PK	31	-30.9	.6	30.58	-	-	74	-43.42	0-360	200	H
2	3.083	29.93	PK	32.7	-29.9	.7	33.43	-	-	74	-40.57	0-360	100	H
3	5.842	28.29	PK	34.9	-27.2	.5	36.49	-	-	74	-37.51	0-360	100	H
4	1.922	29.5	PK	30.9	-30.9	.6	30.1	-	-	74	-43.9	0-360	200	V
5	3.083	29.15	PK	32.7	-29.9	.7	32.65	-	-	74	-41.35	0-360	100	V
6	5.84	27.02	PK	34.9	-27.1	.5	35.32	-	-	74	-38.68	0-360	100	V

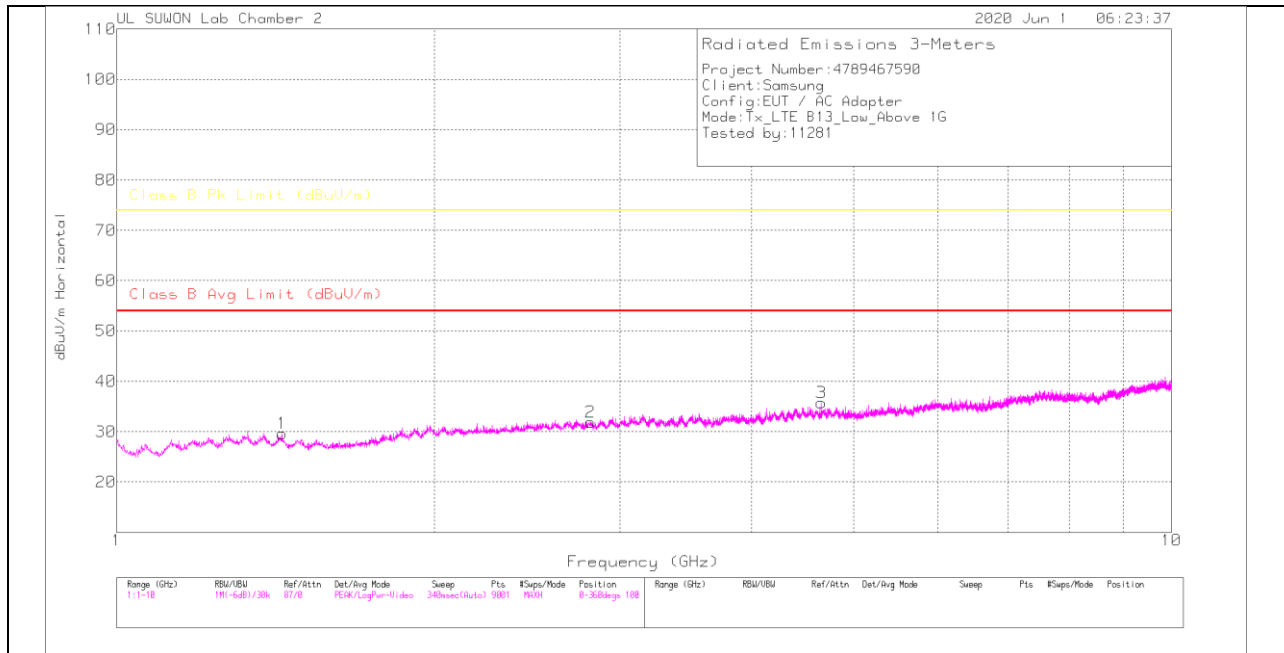
PK – Peak Detector

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

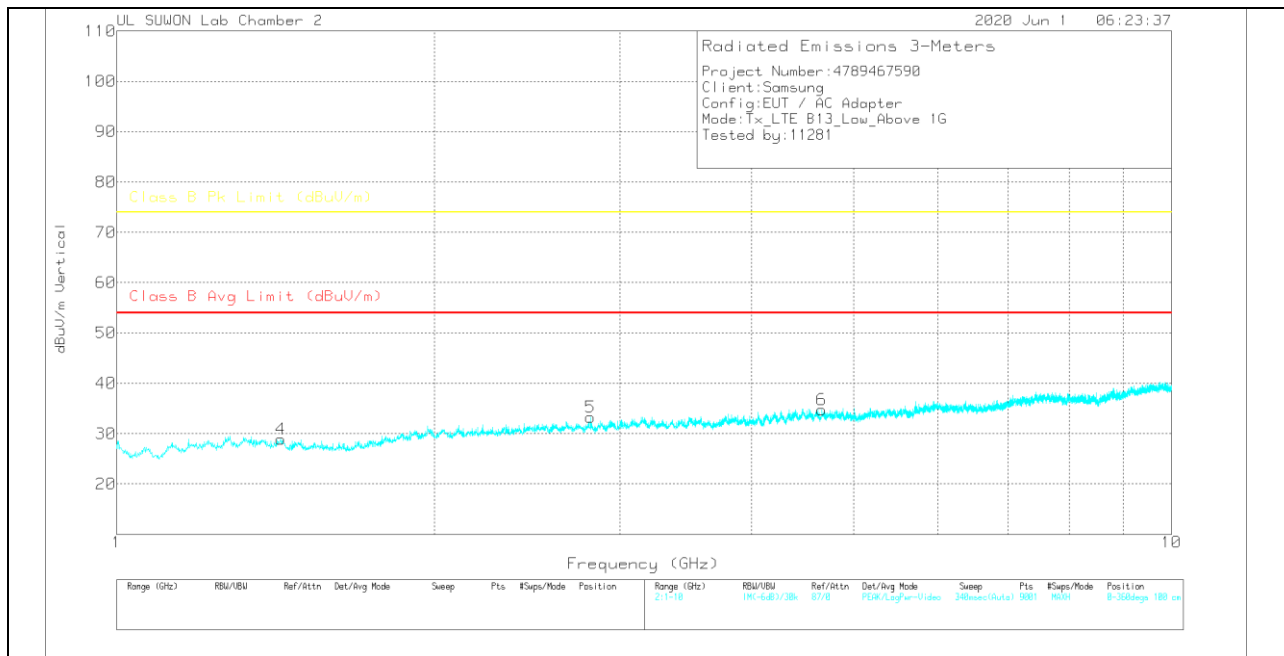
7.4. Above 1 GHz in the LTE Band 13

LOW CHANNEL(748.50 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

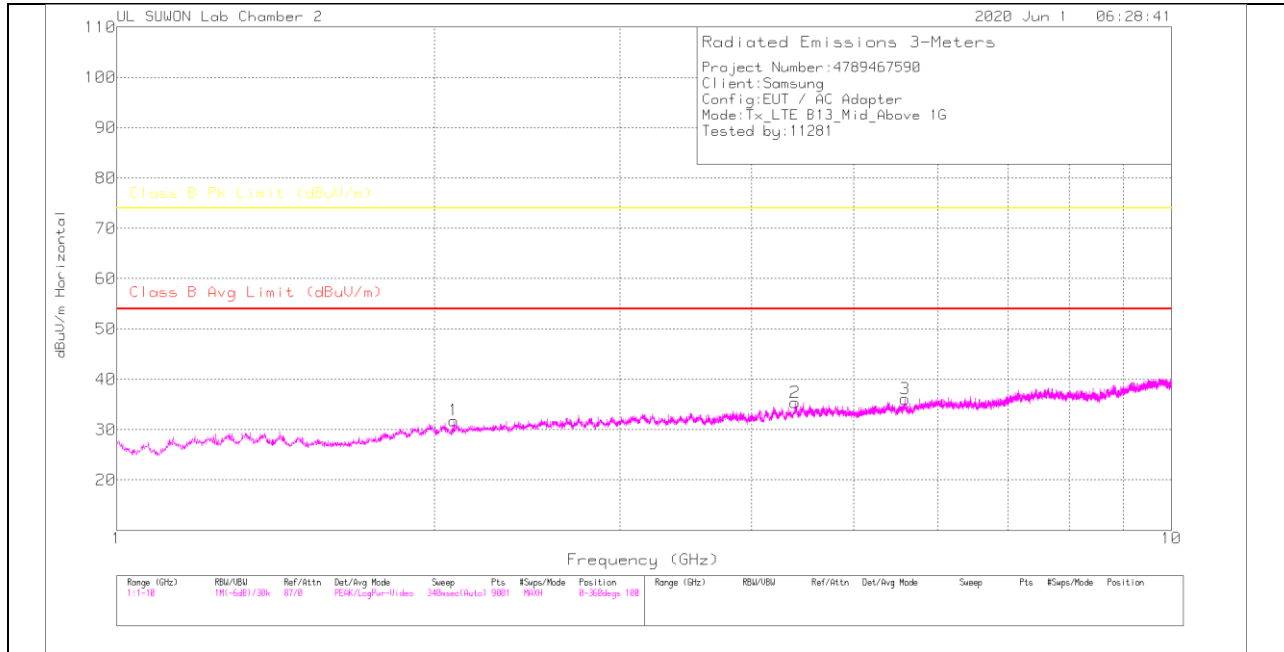
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HP(dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.434	31.39	PK	29.1	-31.6	.7	29.59	-	-	74	-44.41	0-360	100	H
2	2.814	29.12	PK	32	-29.9	.7	31.92	-	-	74	-42.08	0-360	100	H
3	4.657	30.24	PK	34	-29	.5	35.74	-	-	74	-38.26	0-360	200	H
4	1.43	30.65	PK	29.2	-31.7	.7	28.85	-	-	74	-45.15	0-360	100	V
5	2.813	30.37	PK	32	-29.8	.7	33.27	-	-	74	-40.73	0-360	200	V
6	4.66	29.29	PK	34	-29	.5	34.79	-	-	74	-39.21	0-360	100	V

PK – Peak Detector

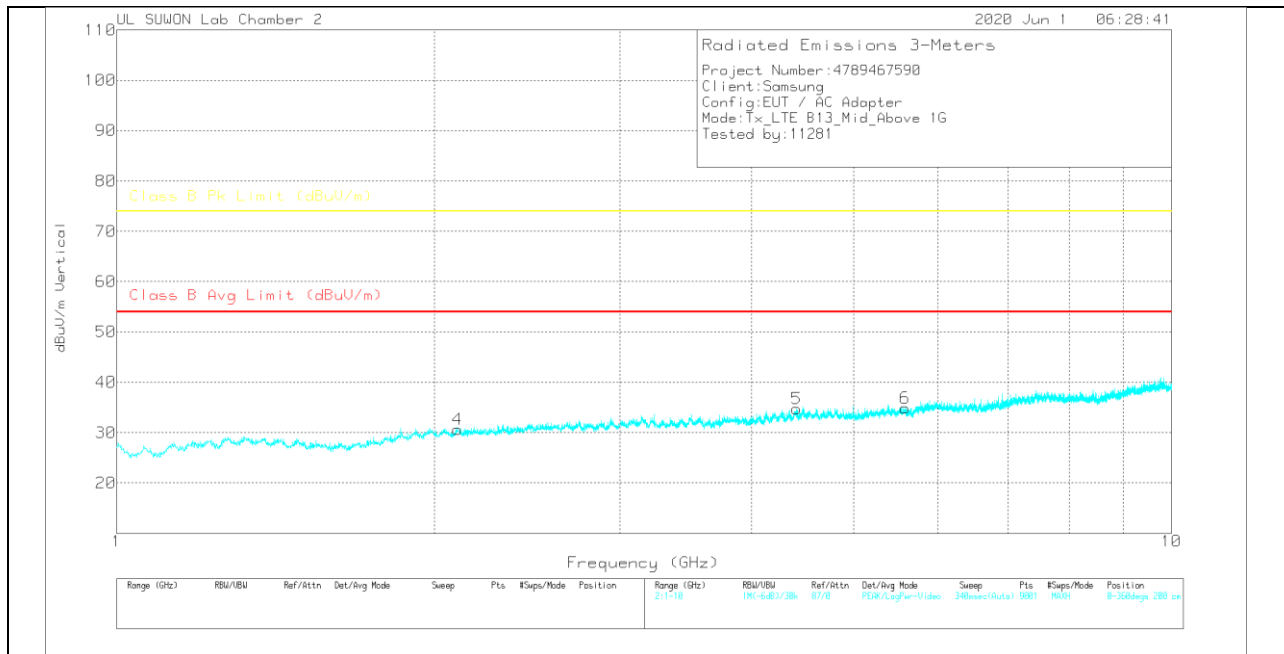
Note: Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

MID CHANNEL(751.0 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

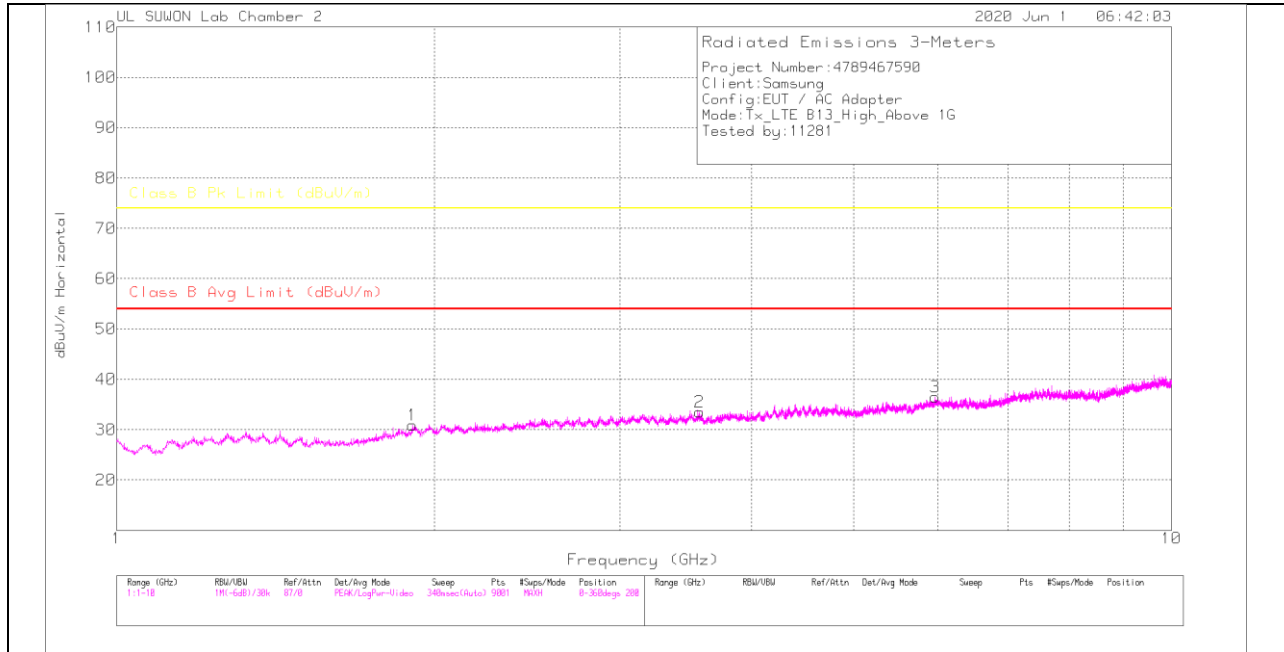
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HP(dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.088	30.63	PK	31.3	-30.7	.6	31.83	-	-	74	-42.17	0-360	200	H
2	4.397	29.68	PK	33.7	-28.5	.5	35.38	-	-	74	-38.62	0-360	200	H
3	5.588	28.77	PK	34.6	-27.8	.5	36.07	-	-	74	-37.93	0-360	100	H
4	2.105	29.24	PK	31.3	-30.6	.7	30.64	-	-	74	-43.36	0-360	100	V
5	4.41	29.09	PK	33.7	-28.5	.5	34.79	-	-	74	-39.21	0-360	200	V
6	5.588	27.59	PK	34.6	-27.8	.5	34.89	-	-	74	-39.11	0-360	200	V

PK – Peak Detector

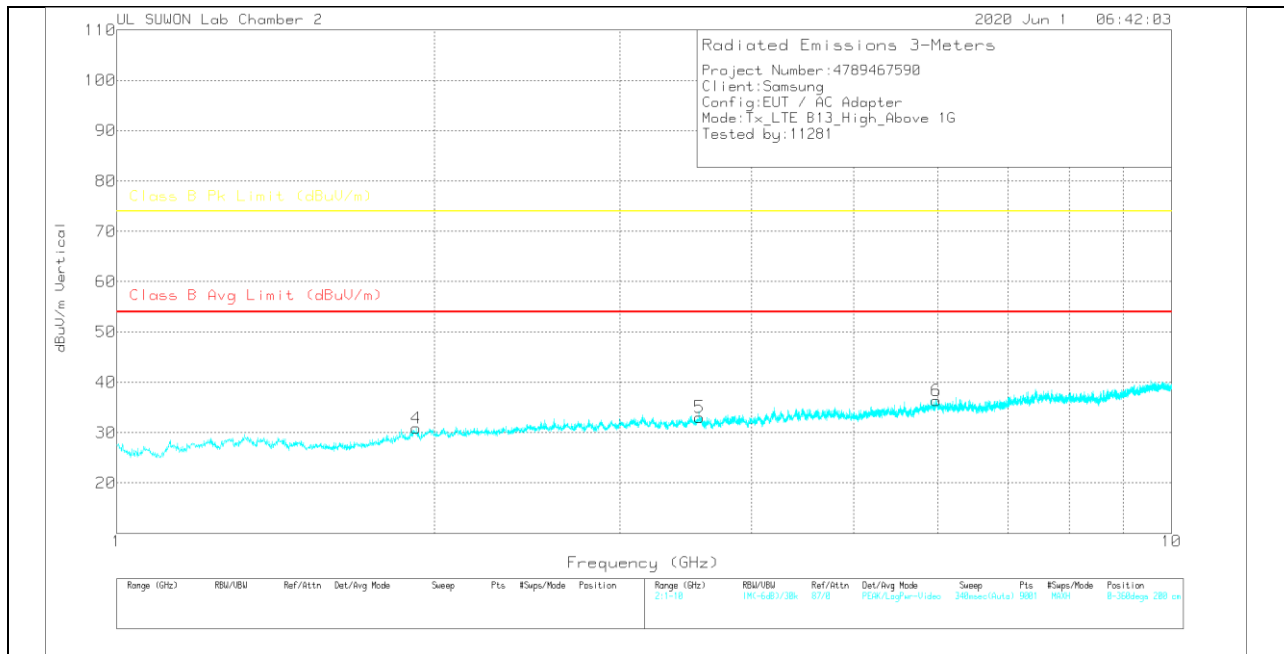
Note: Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

HIGH CHANNEL(753.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HP(dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.908	30.26	PK	30.9	-30.9	.6	30.86	-	-	74	-43.14	0-360	100	H
2	3.567	28.36	PK	32.7	-29.2	.6	33.46	-	-	74	-40.54	0-360	200	H
3	5.972	28.36	PK	35	-27.4	.5	36.46	-	-	74	-37.54	0-360	200	H
4	1.923	30.21	PK	31	-30.9	.6	30.91	-	-	74	-43.09	0-360	100	V
5	3.569	28.97	PK	32.7	-29.2	.6	33.07	-	-	74	-40.93	0-360	200	V
6	5.988	28.39	PK	35	-27.5	.5	36.39	-	-	74	-37.61	0-360	200	V

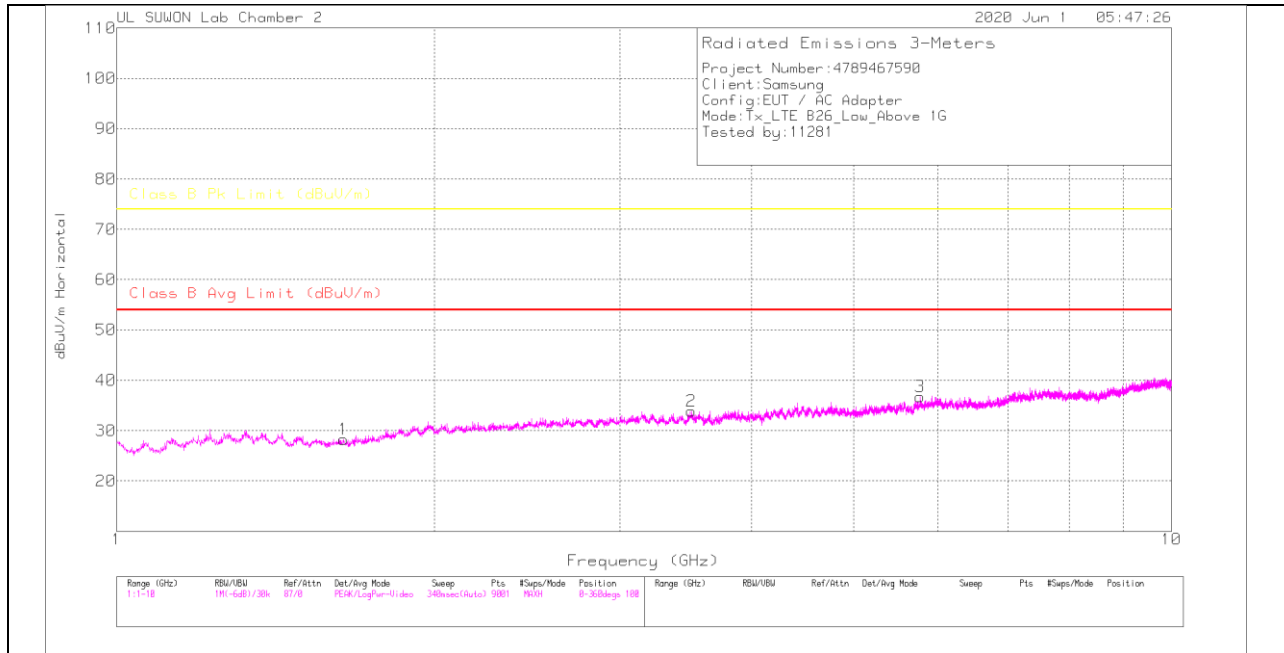
PK – Peak Detector

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

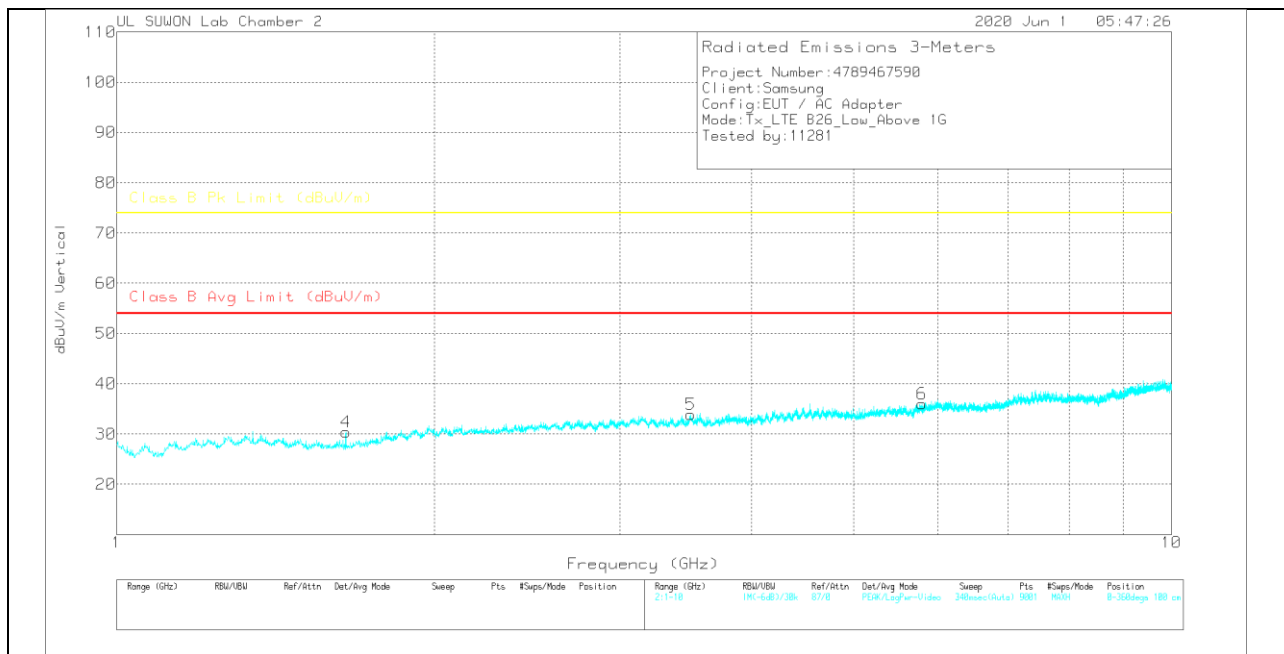
7.5. Above 1 GHz in the LTE Band 26

LOW CHANNEL(864 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

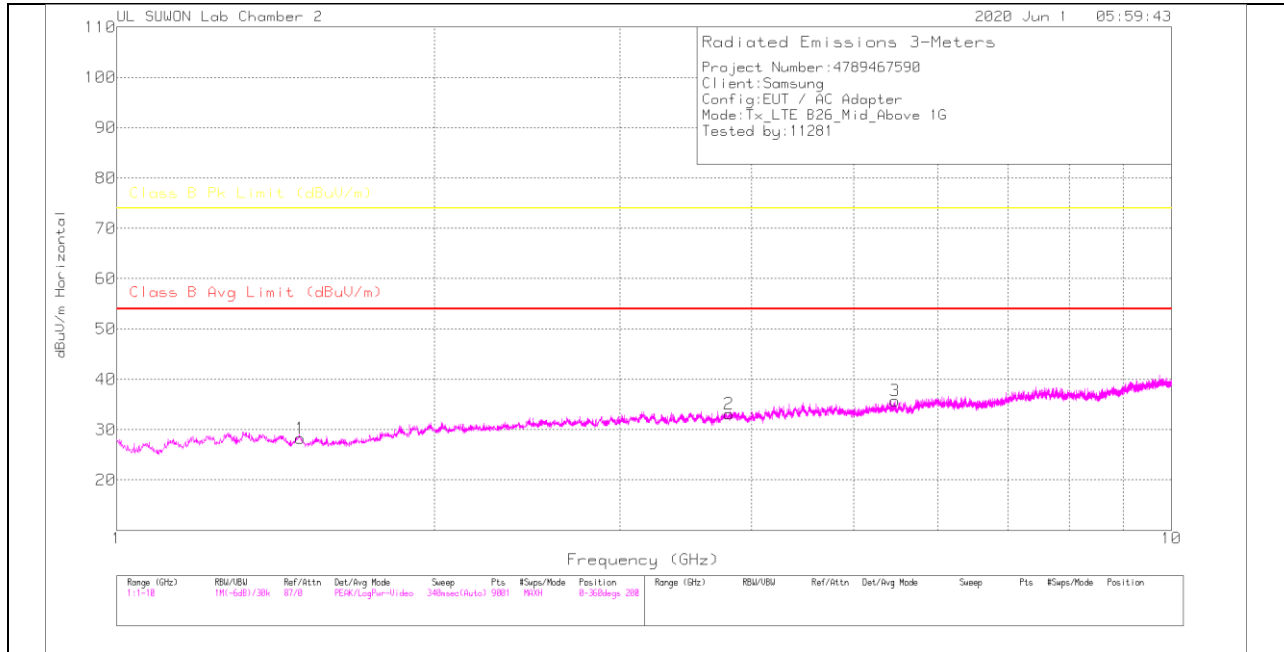
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz[dB]	1GHz_HP[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.64	30.64	PK	28.3	-31.4	.7	28.24	-	-	74	-45.76	0-360	200	H
2	3.506	29.51	PK	32.7	-28.9	.6	33.91	-	-	74	-40.09	0-360	200	H
3	5.78	28.65	PK	34.8	-27.2	.5	36.75	-	-	74	-37.25	0-360	200	H
4	1.649	32.8	PK	28.3	-31.4	.7	30.4	-	-	74	-43.6	0-360	200	V
5	3.501	29.45	PK	32.7	-28.9	.6	33.85	-	-	74	-40.15	0-360	100	V
6	5.803	27.7	PK	34.8	-27	.5	36	-	-	74	-38	0-360	100	V

PK – Peak Detector

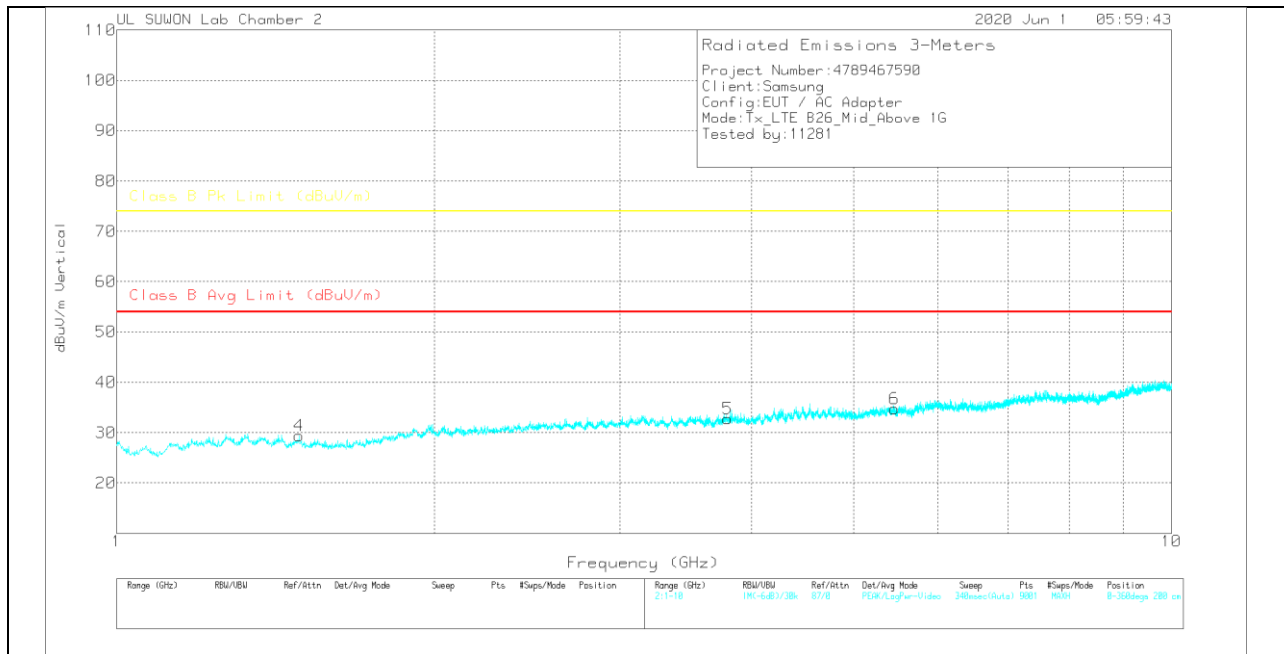
Note1: Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

MID CHANNEL(876.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

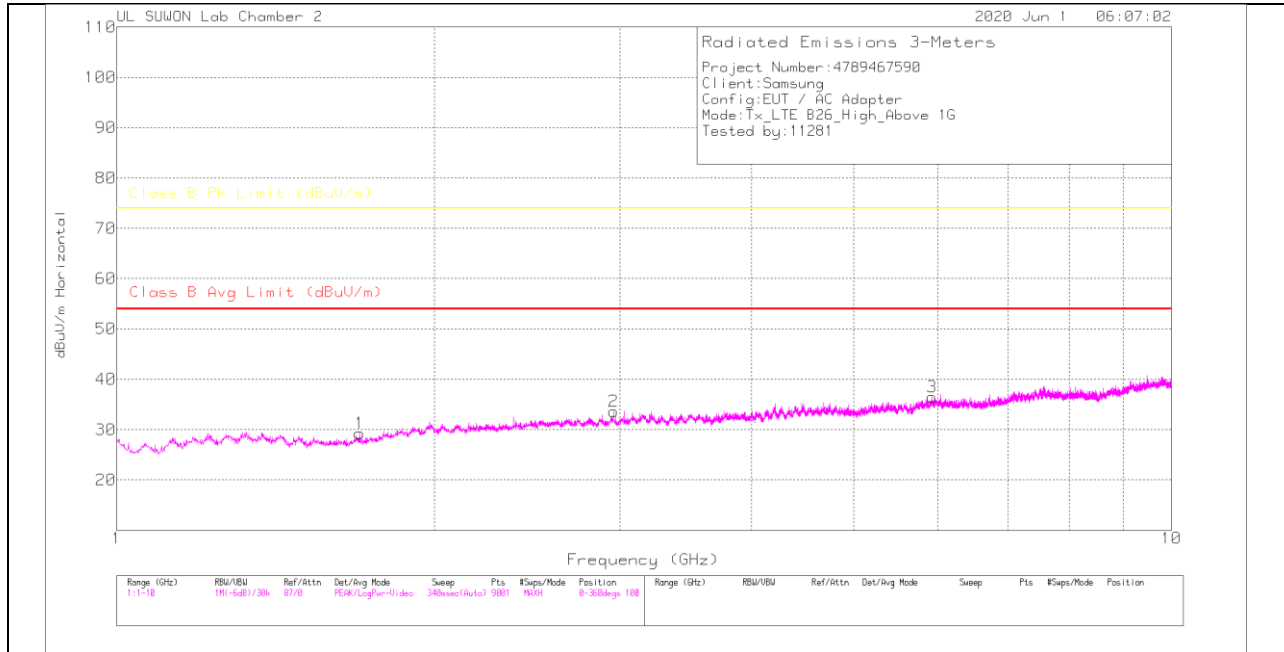
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz[dB]	1GHz_HP[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.493	30.23	PK	28.7	-31.4	.8	28.33	-	-	74	-45.67	0-360	200	H
2	3.806	28.27	PK	33.2	-28.9	.6	33.17	-	-	74	-40.83	0-360	200	H
3	5.466	28.5	PK	34.6	-27.8	.5	35.8	-	-	74	-38.2	0-360	200	H
4	1.489	31.31	PK	28.7	-31.4	.8	29.41	-	-	74	-44.59	0-360	200	V
5	3.796	28	PK	33.2	-29	.6	32.8	-	-	74	-41.2	0-360	100	V
6	5.465	27.51	PK	34.6	-27.8	.5	34.81	-	-	74	-39.19	0-360	200	V

PK – Peak Detector

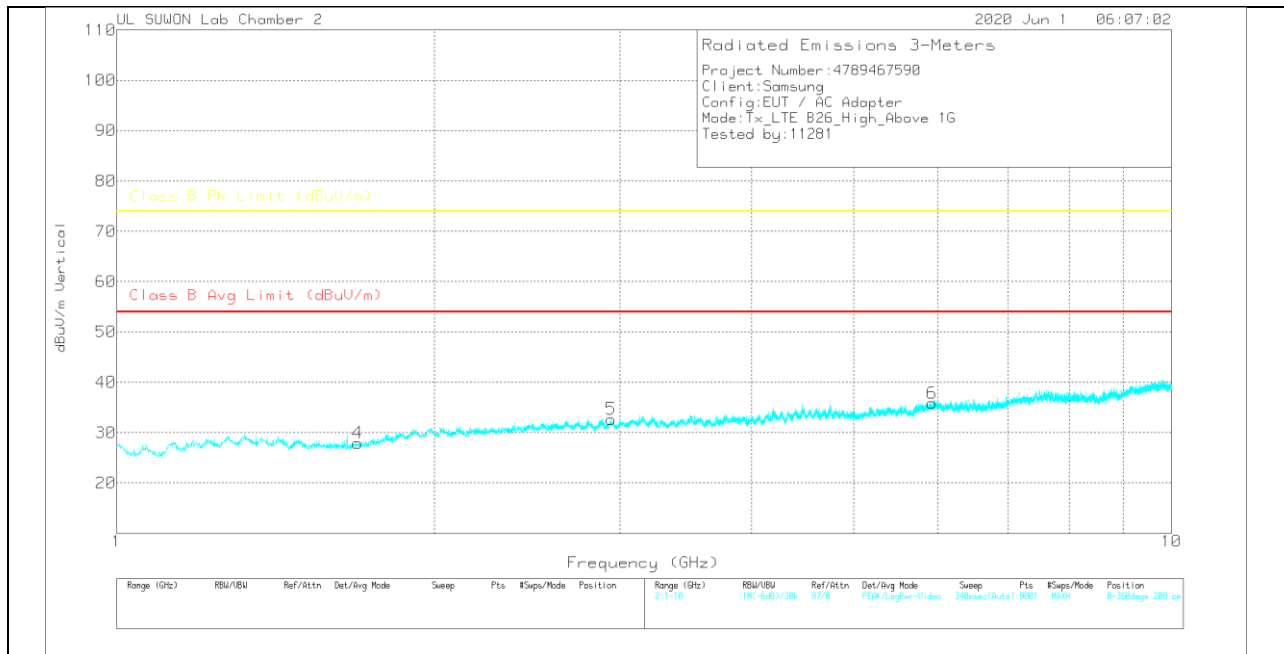
Note1: Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

HIGH CHANNEL(889 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz[dB]	1GHz_HP[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.699	31.03	PK	28.7	-31.2	.7	29.23	-	-	74	-44.77	0-360	100	H
2	2.959	30.78	PK	32.3	-30.1	.7	33.68	-	-	74	-40.32	0-360	200	H
3	5.933	28.52	PK	35	-27.5	.5	36.52	-	-	74	-37.48	0-360	200	H
4	1.692	29.86	PK	28.6	-31.2	.7	27.96	-	-	74	-46.04	0-360	200	V
5	2.943	29.8	PK	32.3	-30.1	.7	32.7	-	-	74	-41.3	0-360	200	V
6	5.927	27.93	PK	35	-27.5	.5	35.93	-	-	74	-38.07	0-360	200	V

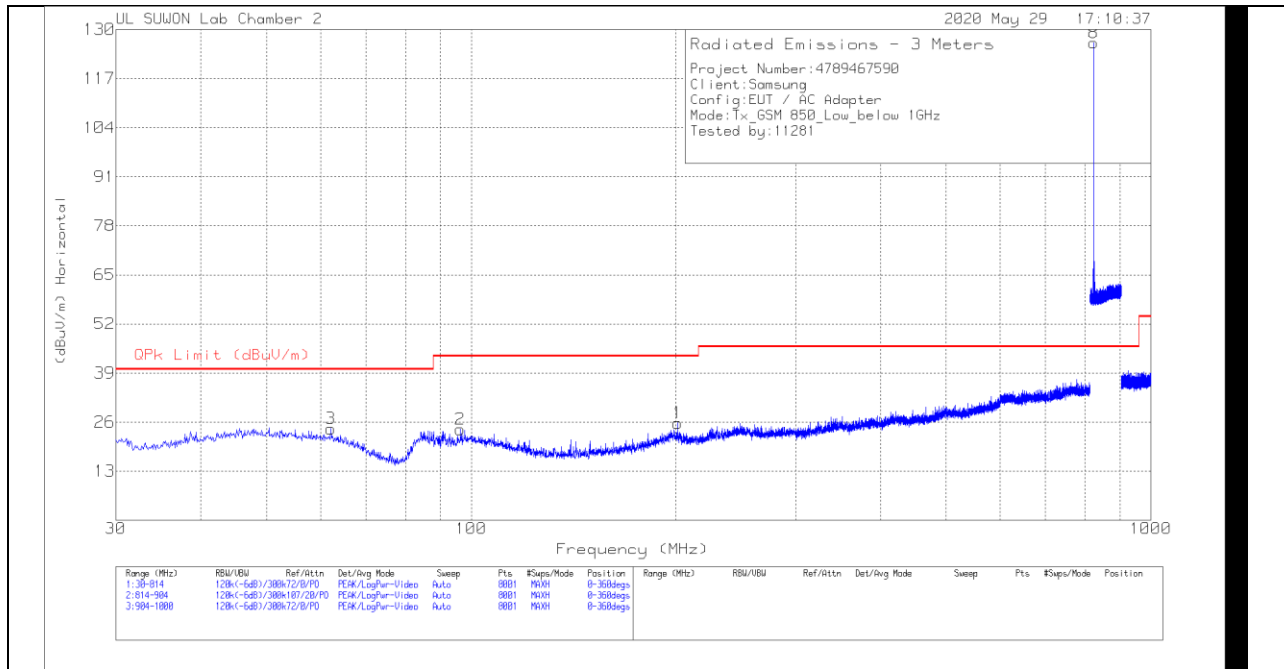
PK – Peak Detector

Note1: Unwanted emissions on the harmonic frequency were generated from the call-simulator with the TX and RX signals.

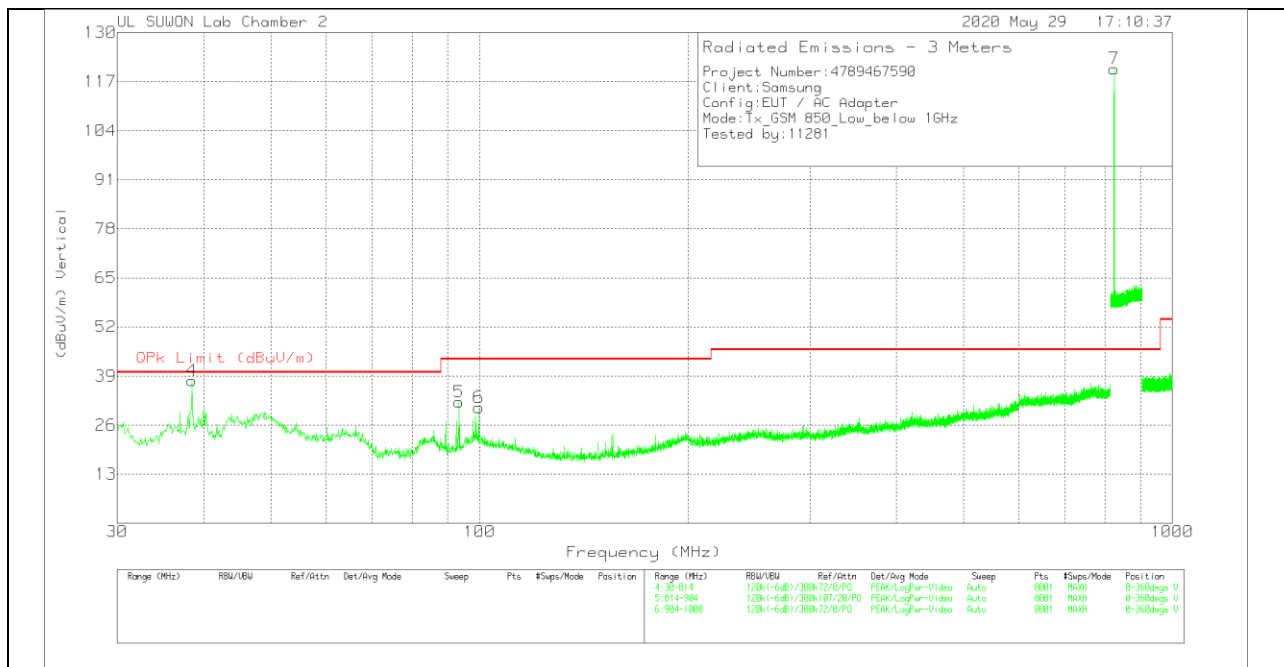
7.6. Below 1 GHz in the GSM850

LOW CHANNEL(869.2 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	201.108	6.25	Pk	17.9	1.6	25.75	43.52	-17.77	0-360	100	H
2	96.346	5.59	Pk	17.4	1.1	24.09	43.52	-19.43	0-360	300	H
3	62.144	5.34	Pk	18	.9	24.24	40	-15.76	0-360	400	H
8	824.17	96.36	Pk	26.9	3.2	126.46	46.02	80.44	0-360	100	H
4	38.428	18.95	Pk	18.1	.7	37.75	40	-2.25	0-360	100	V
5	93.406	14.22	Pk	16.8	1.1	32.12	43.52	-11.4	0-360	100	V
6	99.776	11.87	Pk	17.7	1.1	30.67	43.52	-12.85	0-360	100	V
7	824.2488	90.29	Pk	26.9	3.2	120.39	46.02	74.37	0-360	100	V

Pk - Peak detector

Radiated Emissions

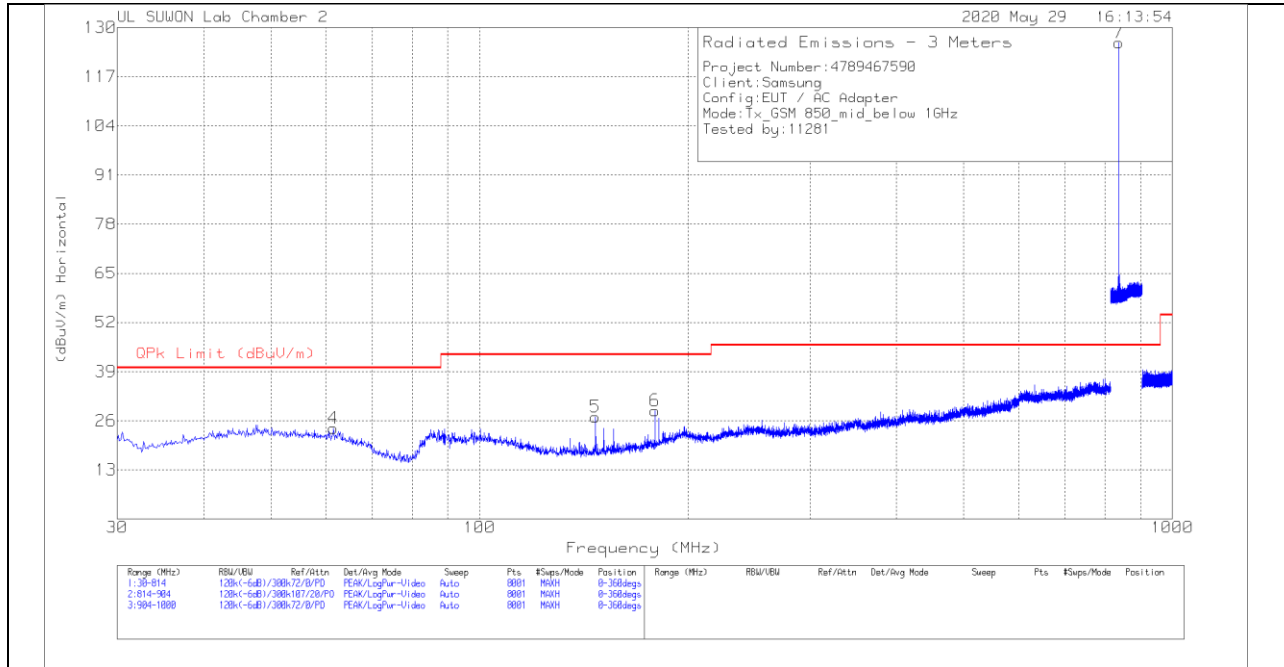
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
61.9457	.17	Qp	18	.9	19.07	40	-20.93	136	393	H
38.428	3.09	Qp	18.1	.7	21.89	40	-18.11	236	100	V

Qp - Quasi-Peak detector

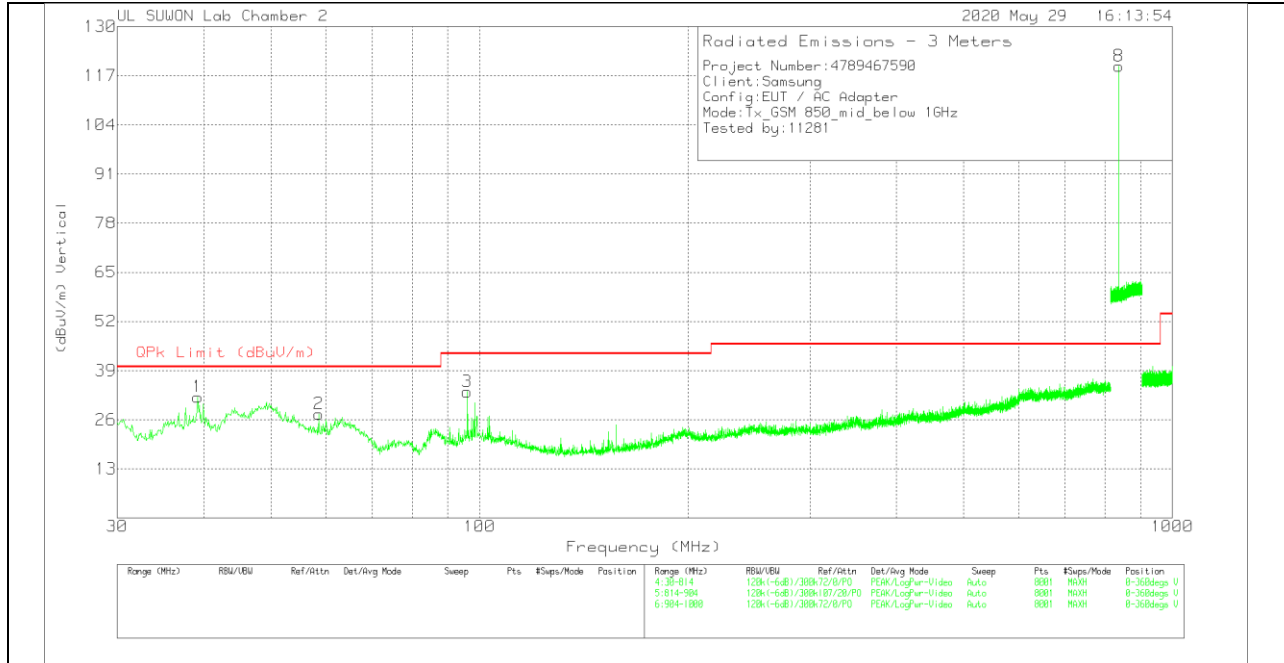
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(881.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	61.556	4.98	Pk	18.1	.9	23.98	40	-16.02	0-360	400	H
5	146.914	11.52	Pk	14.1	1.4	27.02	43.52	-16.5	0-360	100	H
6	179.156	11.56	Pk	15.6	1.5	28.66	43.52	-14.86	0-360	100	H
7	837.0063	95.57	Pk	27.1	3.3	125.97	46.02	79.95	0-360	100	H
1	39.212	12.84	Pk	18.5	.7	32.04	40	-7.96	0-360	100	V
2	58.616	7.84	Pk	18.8	.9	27.54	40	-12.46	0-360	200	V
3	96.052	14.89	Pk	17.4	1.1	33.39	43.52	-10.13	0-360	100	V
8	837.0738	89.12	Pk	27.1	3.3	119.52	46.02	73.5	0-360	200	V

Pk - Peak detector

Radiated Emissions

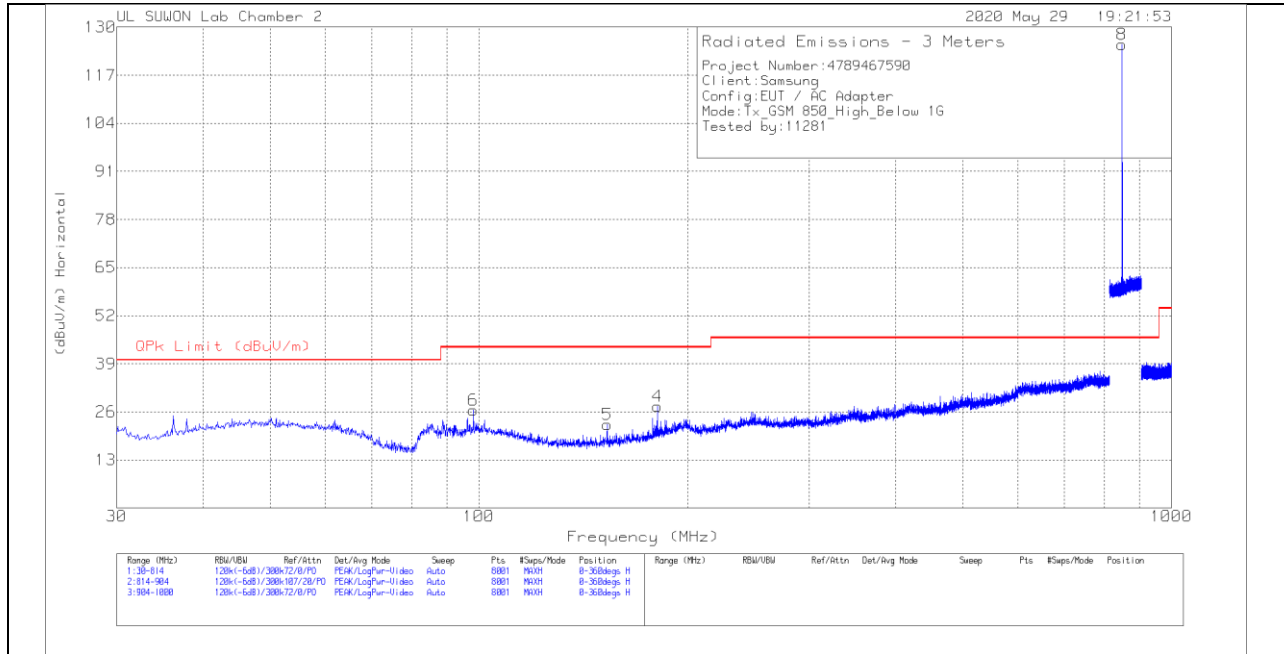
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
179.156	-93	Qp	15.6	1.5	16.17	43.52	-27.35	123	134	H
39.212	3.23	Qp	18.5	.7	22.43	40	-17.57	237	100	V

Qp - Quasi-Peak detector

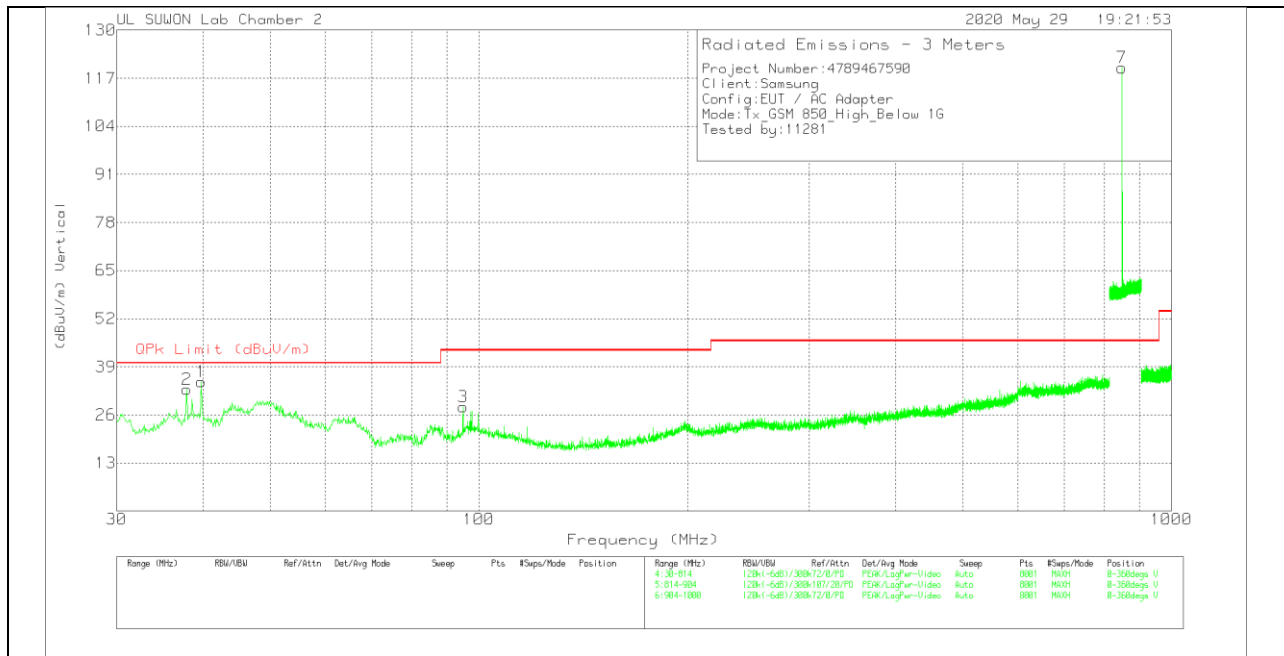
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(893.8 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	181.018	10.28	Pk	15.8	1.5	27.58	43.52	-15.94	0-360	100	H
5	153.186	7	Pk	14.2	1.4	22.6	43.52	-20.92	0-360	400	H
6	98.208	7.74	Pk	17.6	1.1	26.44	43.52	-17.08	0-360	100	H
8	848.7738	94.53	Pk	27.4	3.3	125.23	46.02	79.21	0-360	100	H
1	39.702	15.6	Pk	18.6	.7	34.9	40	-5.1	0-360	200	V
2	37.84	14.5	Pk	17.8	.7	33	40	-7	0-360	100	V
3	94.876	9.84	Pk	17.2	1.1	28.14	43.52	-15.38	0-360	200	V
7	848.8188	89.1	Pk	27.4	3.3	119.8	46.02	73.78	0-360	100	V

Pk - Peak detector

Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
181.018	-1.01	Qp	15.8	1.5	16.29	43.52	-27.23	97	113	H
39.702	2.45	Qp	18.6	.7	21.75	40	-18.25	259	104	V

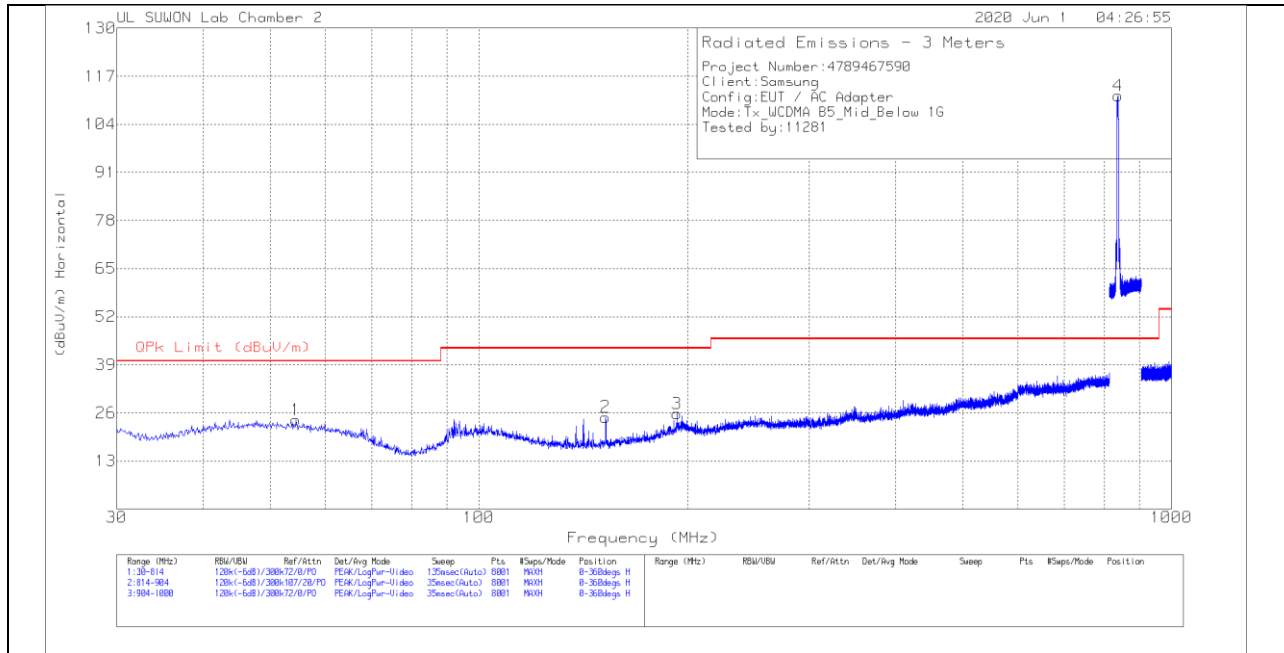
Qp - Quasi-Peak detector

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

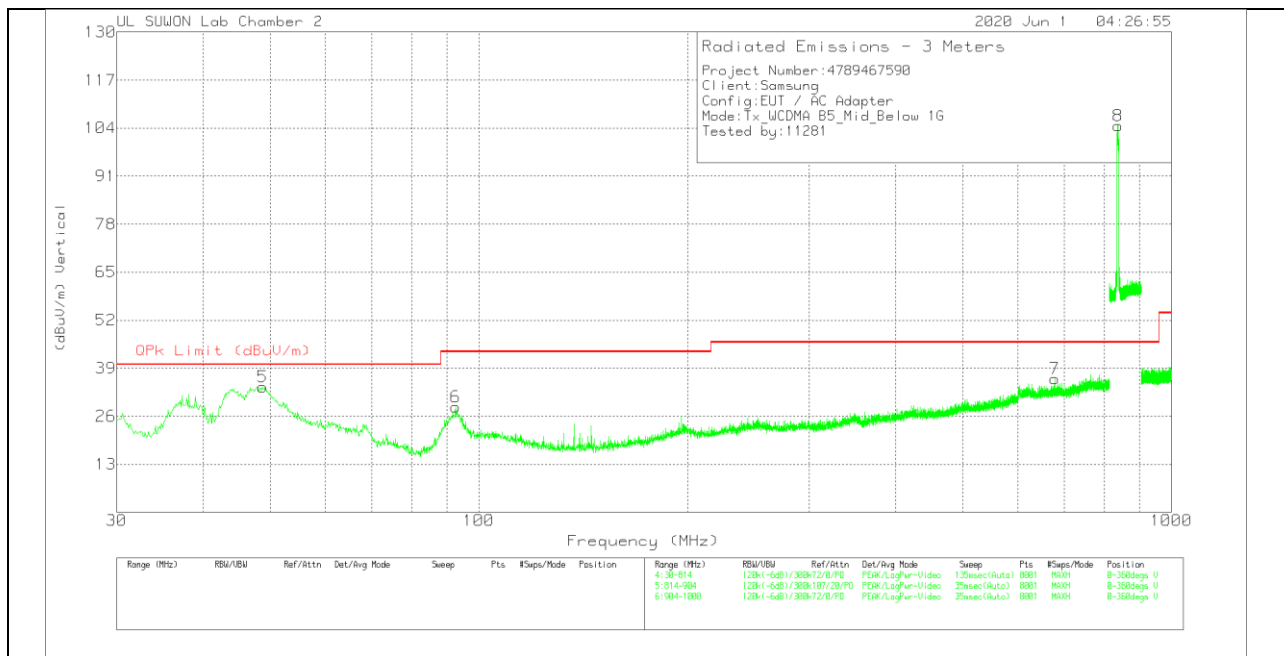
7.7. Below 1 GHz in the WCDMA Band 5

MID CHANNEL(881.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	54.402	3.91	Pk	19.4	.8	24.11	40	-15.89	0-360	100	H
2	152.5	9.39	Pk	14.1	1.4	24.89	43.52	-18.63	0-360	300	H
3	193.268	6.51	Pk	17.7	1.6	25.81	43.52	-17.71	0-360	100	H
4	837.9625	81.36	Pk	27.1	3.3	111.76	46.02	65.74	0-360	100	H
5	48.718	13.37	Pk	19.8	.8	33.97	40	-6.03	0-360	100	V
6	92.524	10.82	Pk	16.6	1.1	28.52	43.52	-15	0-360	100	V
7	678.074	7.65	Pk	25.6	2.9	36.15	46.02	-9.87	0-360	300	V
8	838.0188	74.27	Pk	27.1	3.3	104.67	46.02	58.65	0-360	100	V

Pk - Peak detector

Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
54.402	-1.72	Qp	19.4	.8	18.48	40	-21.52	148	240	H
48.718	11.21	Qp	19.8	.8	31.81	40	-8.19	344	101	V

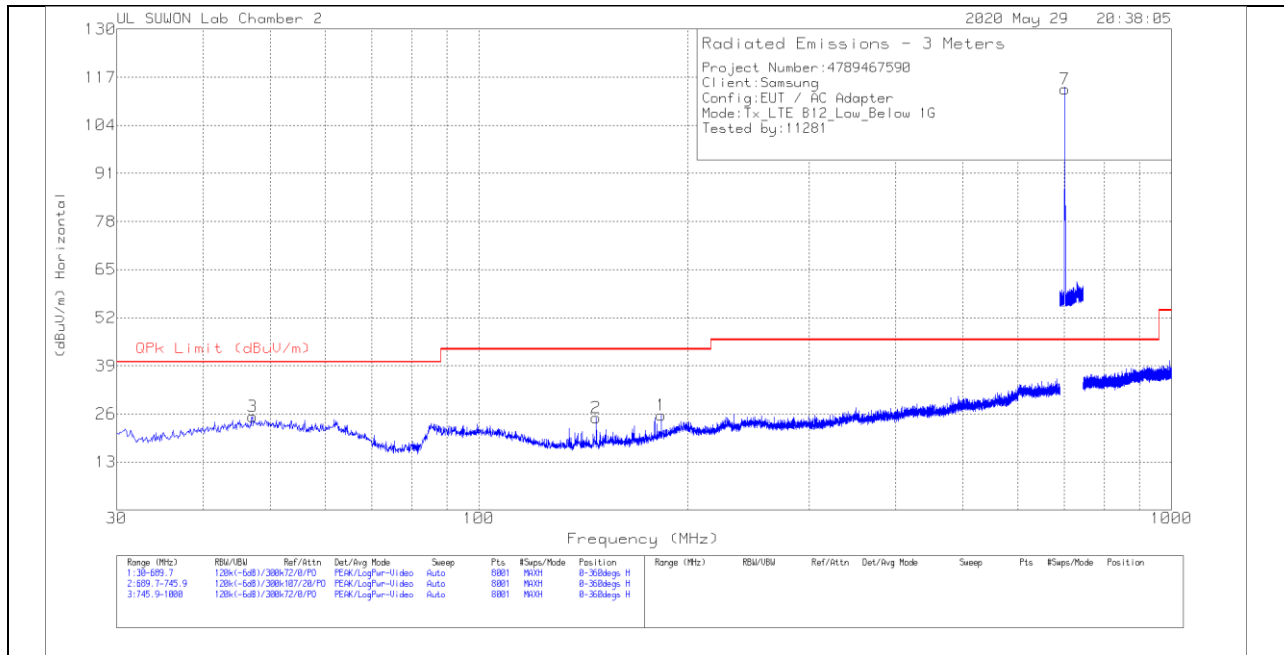
Qp - Quasi-Peak detector

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

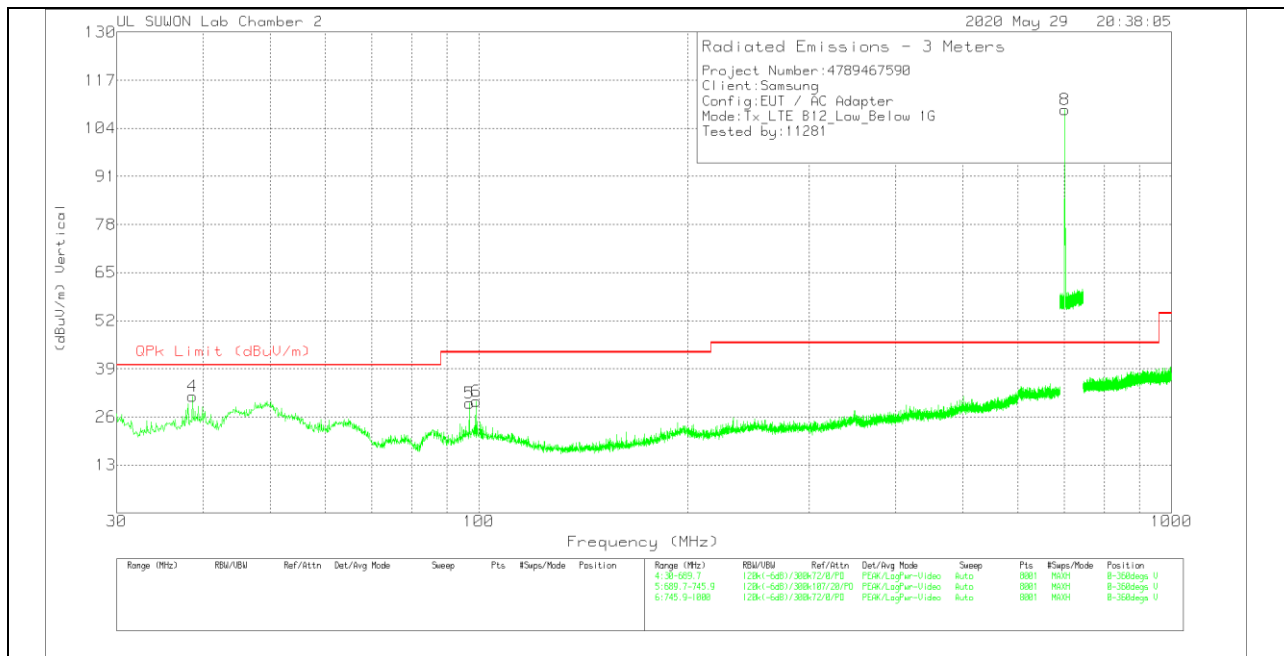
7.8. Below 1 GHz in the LTE Band 12

LOW CHANNEL(731.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	183.2987	7.93	Pk	16.2	1.5	25.63	43.52	-17.89	0-360	100	H
2	147.7572	9.51	Pk	14.1	1.4	25.01	43.52	-18.51	0-360	100	H
3	47.1523	4.71	Pk	19.8	.8	25.31	40	-14.69	0-360	400	H
7	701.4669	85.21	Pk	25.6	3	113.81	46.02	67.79	0-360	100	H
4	38.5762	12.65	Pk	18.2	.7	31.55	40	-8.45	0-360	100	V
5	96.8775	11.3	Pk	17.4	1.1	29.8	43.52	-13.72	0-360	100	V
6	99.1865	11.41	Pk	17.7	1.1	30.21	43.52	-13.31	0-360	100	V
8	701.5371	80.51	Pk	25.6	3	109.11	46.02	63.09	0-360	100	V

Pk - Peak detector

Radiated Emissions

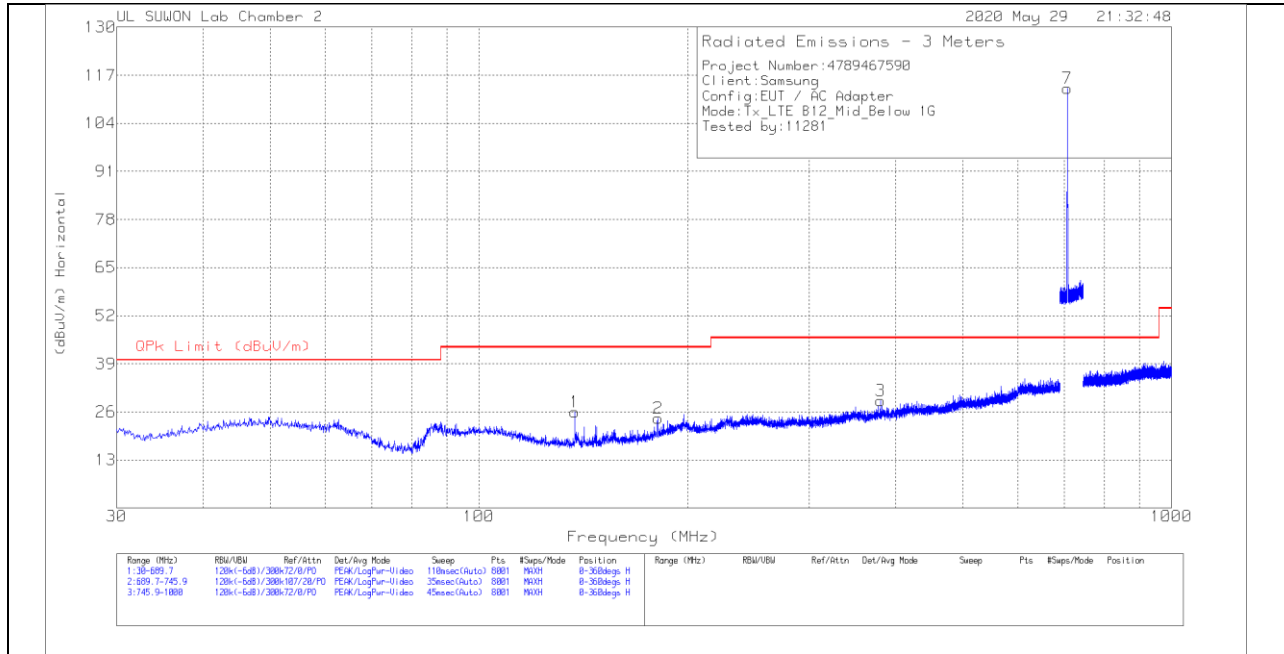
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
47.1523	-76	Qp	19.8	.8	19.84	40	-20.16	256	374	H
38.5762	3.23	Qp	18.2	.7	22.13	40	-17.87	239	100	V

Qp - Quasi-Peak detector

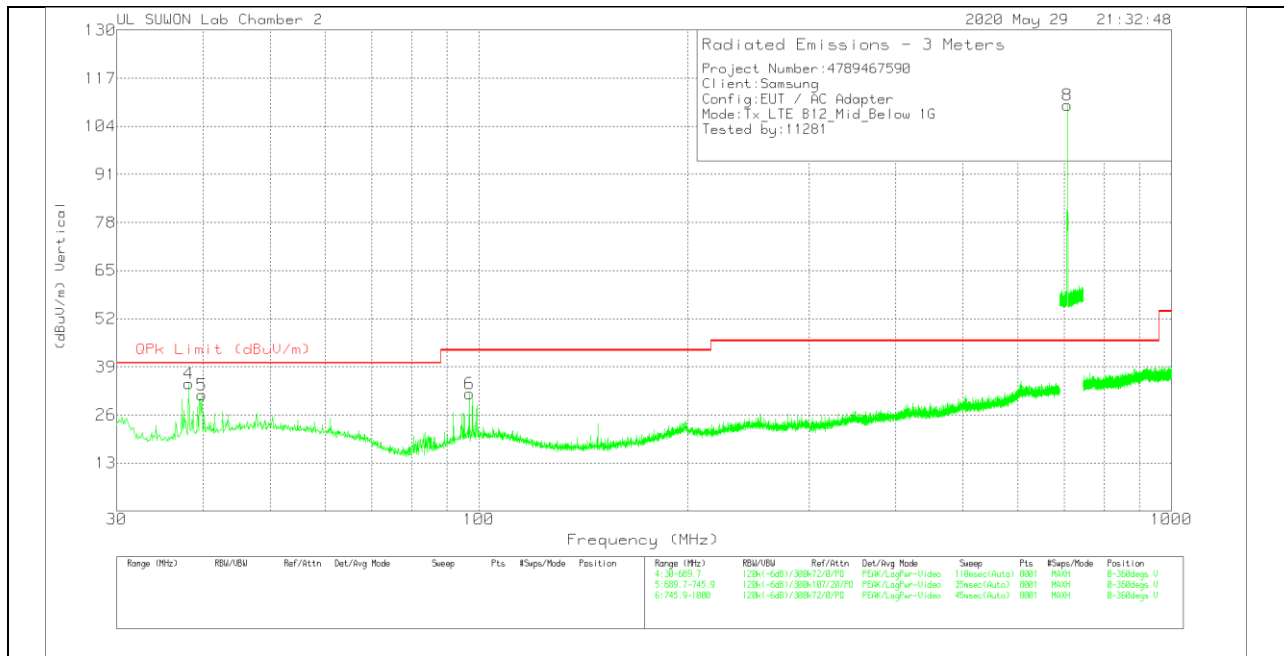
Note: Unwanted emissions captured from 699MHz to 716MHz and from 729MHz to 746MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(737.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	137.6142	10.55	Pk	14.1	1.3	25.95	43.52	-17.57	0-360	200	H
2	181.567	6.93	Pk	15.9	1.5	24.33	43.52	-19.19	0-360	100	H
3	380.1379	5.68	Pk	21.1	2.2	28.98	46.02	-17.04	0-360	400	H
7	707.4452	84.94	Pk	25.5	3	113.44	46.02	67.42	0-360	100	H
4	38.0814	15.9	Pk	17.9	.7	34.5	40	-5.5	0-360	100	V
5	39.8131	12.1	Pk	18.6	.7	31.4	40	-8.6	0-360	100	V
6	96.8775	13.3	Pk	17.4	1.1	31.8	43.52	-11.72	0-360	100	V
8	707.4381	81.24	Pk	25.5	3	109.74	46.02	63.72	0-360	100	V

Pk - Peak detector

Radiated Emissions

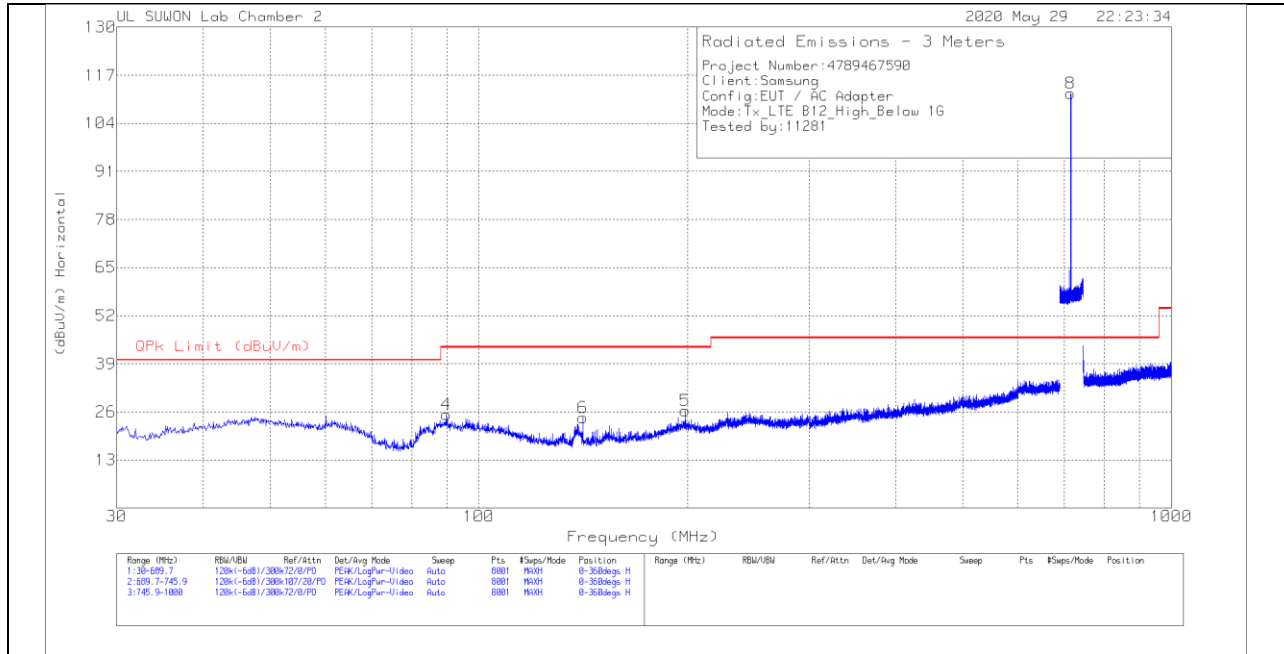
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
380.1379	-1.38	Qp	21.1	2.2	21.92	46.02	-24.1	301	344	H
38.0814	-2.18	Qp	17.9	.7	16.42	40	-23.58	214	107	V

Qp - Quasi-Peak detector

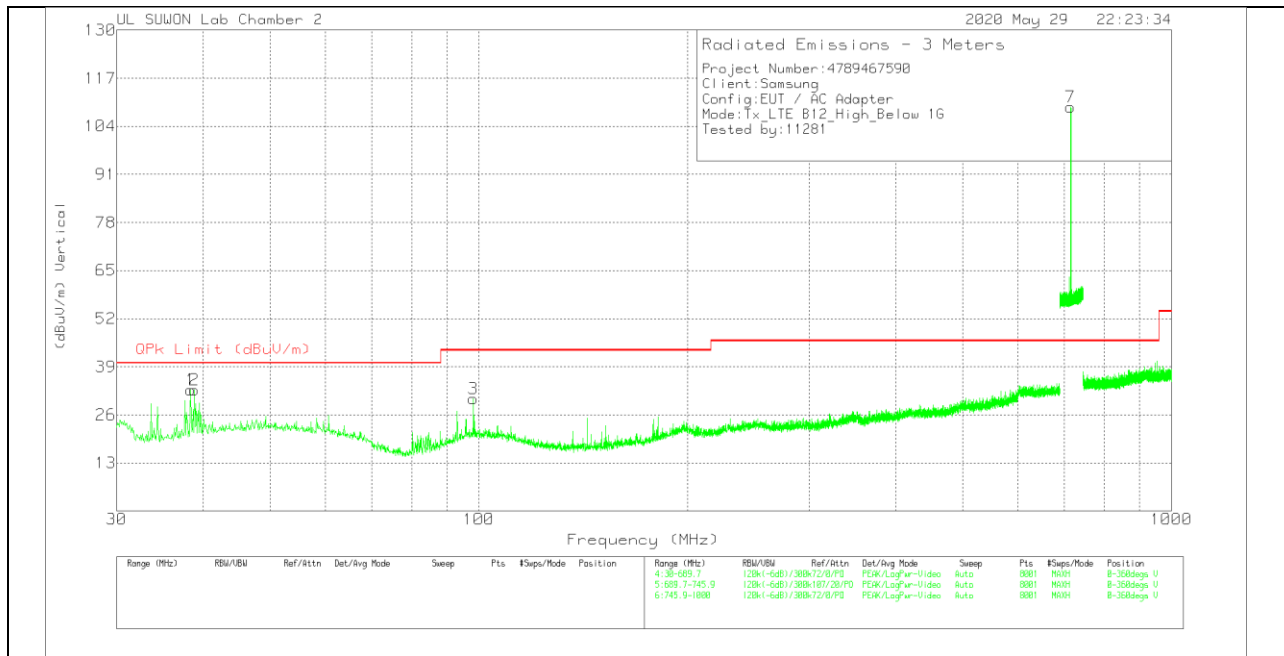
Note: Unwanted emissions captured from 699MHz to 716MHz and from 729MHz to 746MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(744.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	89.7857	8.74	Pk	15.5	1.1	25.34	43.52	-18.18	0-360	200	H
5	198.6368	6.45	Pk	18.3	1.6	26.35	43.52	-17.17	0-360	200	H
6	141.3251	9.19	Pk	14	1.3	24.49	43.52	-19.03	0-360	100	H
8	715.6293	83.34	Pk	25.7	3	112.04	46.02	66.02	0-360	100	H
1	38.3288	13.92	Pk	18.1	.7	32.72	40	-7.28	0-360	100	V
2	38.8235	13.77	Pk	18.3	.7	32.77	40	-7.23	0-360	200	V
3	98.1969	11.63	Pk	17.6	1.1	30.33	43.52	-13.19	0-360	100	V
7	715.6012	80.47	Pk	25.7	3	109.17	46.02	63.15	0-360	100	V

Pk - Peak detector

Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
198.6368	-1.19	Qp	18.3	1.6	18.71	43.52	-24.81	304	123	H
38.8235	-2.17	Qp	18.3	.7	16.83	40	-23.17	307	187	V

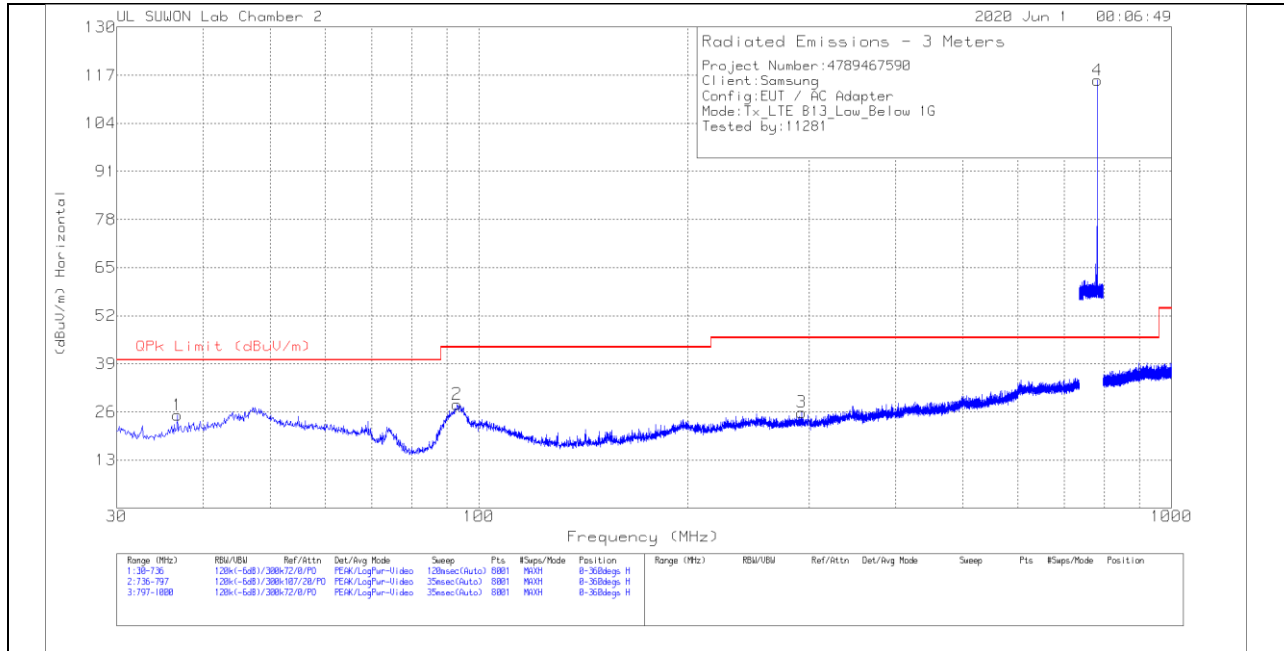
Qp - Quasi-Peak detector

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

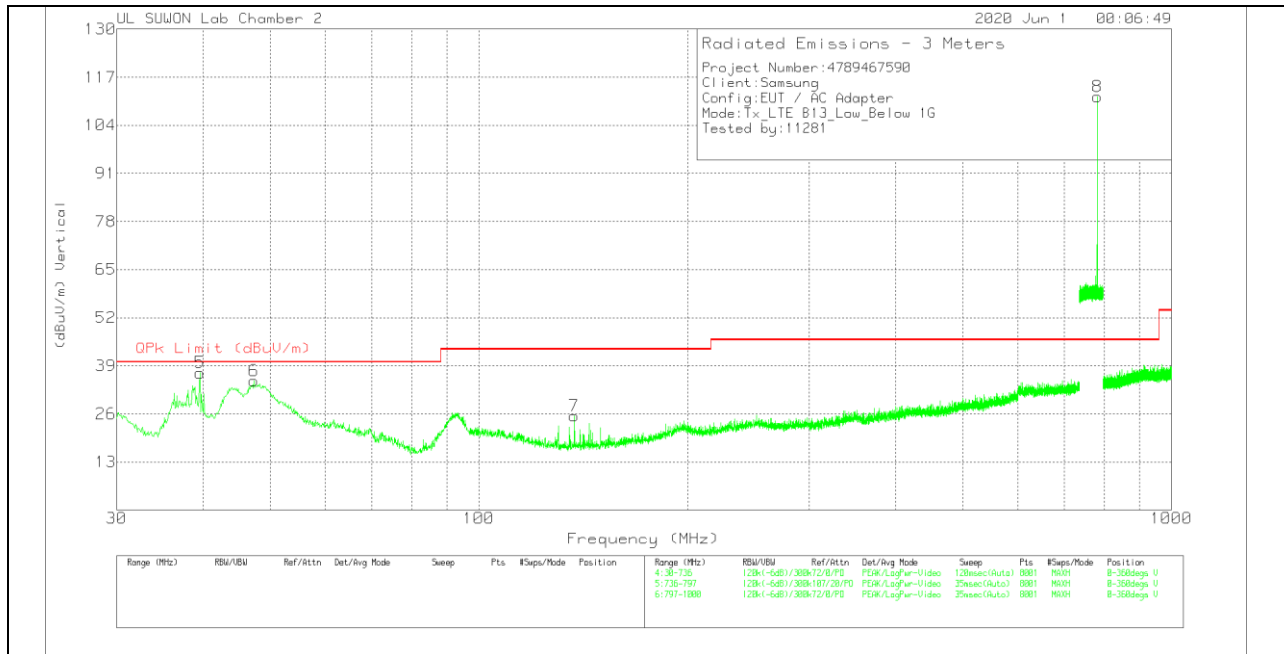
7.9. Below 1 GHz in the LTE Band 13

LOW CHANNEL(748.50 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	36.707	7.03	Pk	17.4	.7	25.13	40	-14.87	0-360	400	H
2	93.0105	10.31	Pk	16.7	1.1	28.11	43.52	-15.41	0-360	300	H
3	292.3673	4.81	Pk	19.2	1.9	25.91	46.02	-20.11	0-360	400	H
4	781.7271	85.67	Pk	26.7	3.2	115.57	46.02	69.55	0-360	100	H
5	39.531	17.8	Pk	18.6	.7	37.1	40	-2.9	0-360	200	V
6	47.297	14.32	Pk	19.8	.8	34.92	40	-5.08	0-360	100	V
7	137.4003	10.04	Pk	14.1	1.3	25.44	43.52	-18.08	0-360	100	V
8	781.7119	81.8	Pk	26.7	3.2	111.7	46.02	65.68	0-360	100	V

Pk - Peak detector

Radiated Emissions

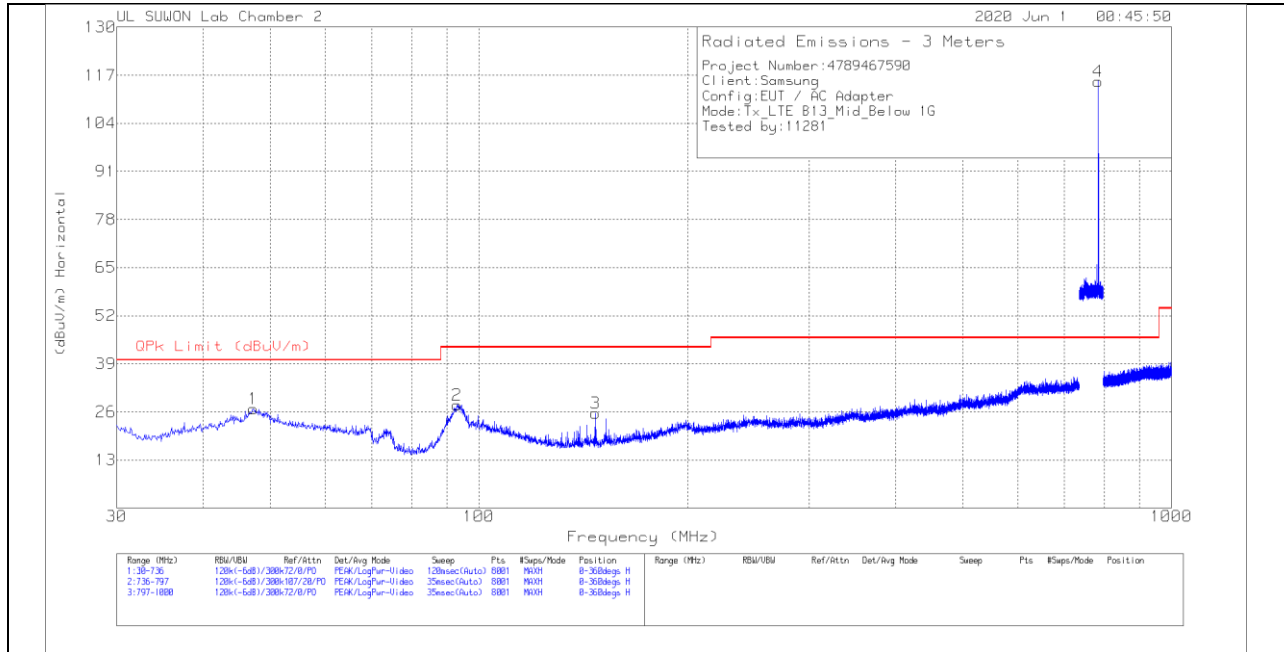
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
36.707	-4.7	Qp	17.4	.7	17.63	40	-22.37	298	338	H
39.531	5.45	Qp	18.6	.7	24.75	40	-15.25	216	101	V

Qp - Quasi-Peak detector

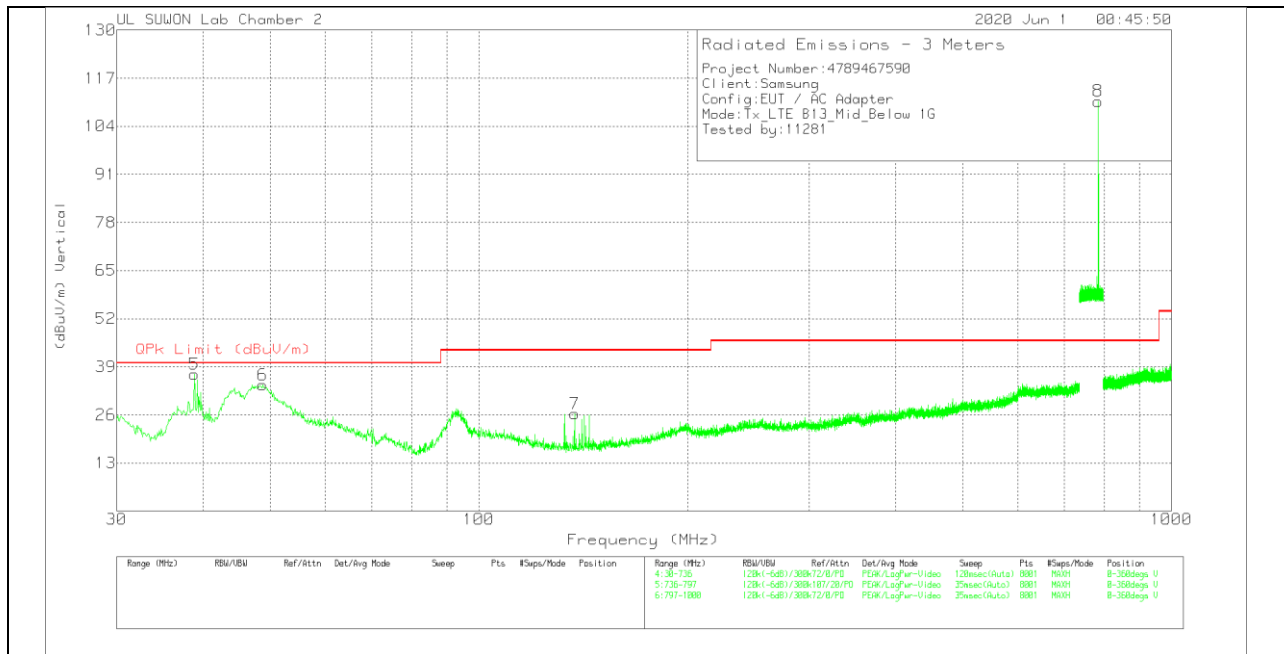
Note: Unwanted emissions captured from 777MHz to 787MHz and from 746MHz to 756MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(751.0 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	47.2088	6.26	Pk	19.8	.8	26.86	40	-13.14	0-360	400	H
2	92.9223	10.1	Pk	16.7	1.1	27.9	43.52	-15.62	0-360	300	H
3	147.2843	10.13	Pk	14.1	1.4	25.63	43.52	-17.89	0-360	200	H
4	784.1824	85.41	Pk	26.7	3.2	115.31	46.02	69.29	0-360	100	H
5	38.825	17.94	Pk	18.3	.7	36.94	40	-3.06	0-360	100	V
6	48.709	13.54	Pk	19.8	.8	34.14	40	-5.86	0-360	100	V
7	137.4885	10.97	Pk	14.1	1.3	26.37	43.52	-17.15	0-360	200	V
8	784.129	80.91	Pk	26.7	3.2	110.81	46.02	64.79	0-360	200	V

Pk - Peak detector

Radiated Emissions

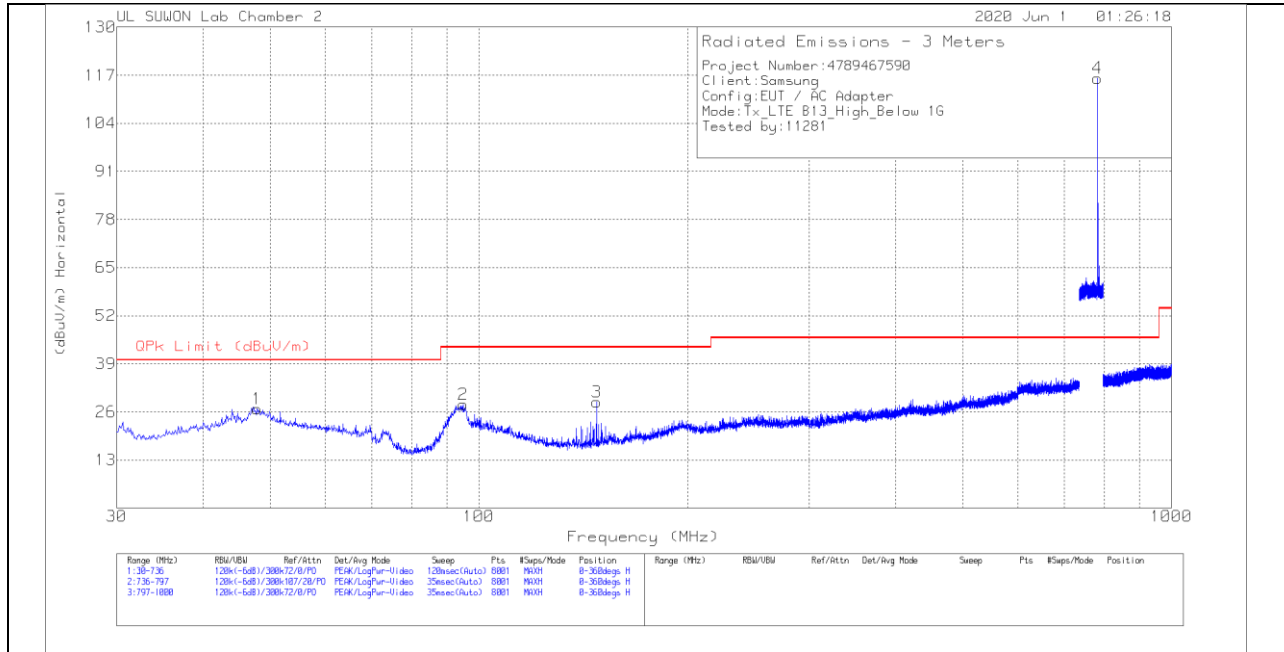
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
47.2088	1.02	Qp	19.8	.8	21.62	40	-18.38	171	119	H
38.825	5.73	Qp	18.3	.7	24.73	40	-15.27	237	100	V

Qp - Quasi-Peak detector

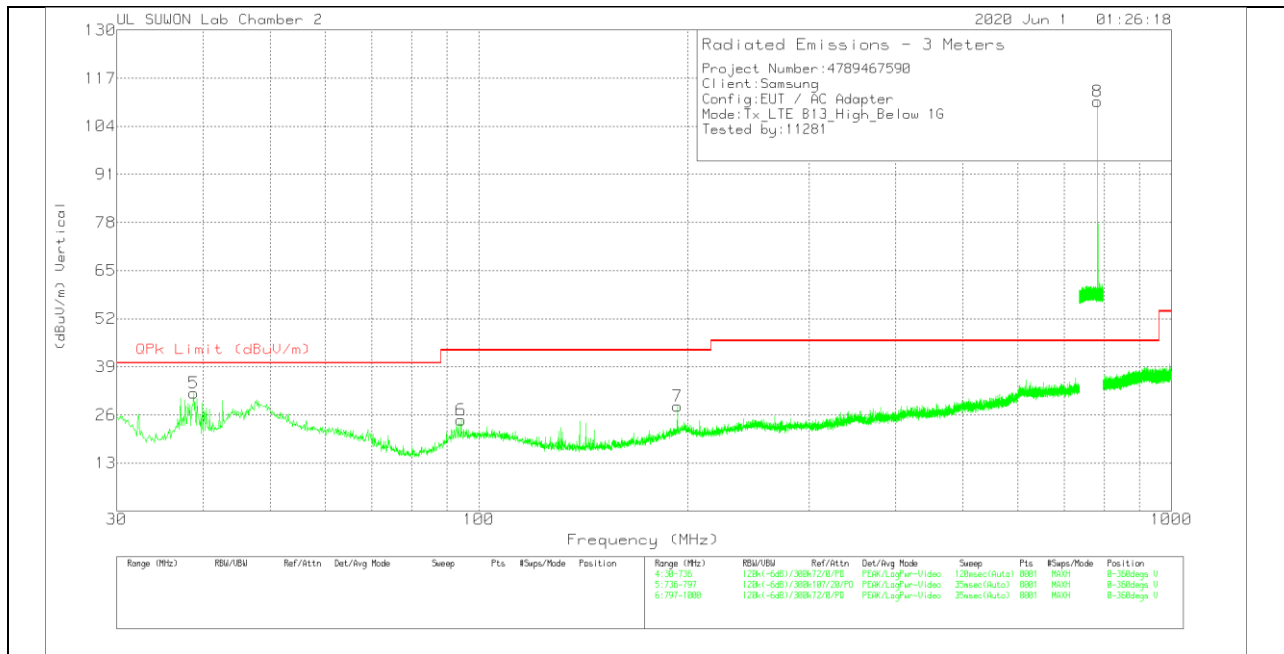
Note: Unwanted emissions captured from 777MHz to 787MHz and from 746MHz to 756MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(753.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	47.8265	6.27	Pk	19.8	.8	26.87	40	-13.13	0-360	300	H
2	94.8638	9.68	Pk	17.2	1.1	27.98	43.52	-15.54	0-360	300	H
3	147.902	13.13	Pk	14.1	1.4	28.63	43.52	-14.89	0-360	100	H
4	782.3524	86.33	Pk	26.7	3.2	116.23	46.02	70.21	0-360	100	H
5	38.7368	12.92	Pk	18.3	.7	31.92	40	-8.08	0-360	200	V
6	94.246	6.59	Pk	17	1.1	24.69	43.52	-18.83	0-360	100	V
7	193.439	8.99	Pk	17.7	1.6	28.29	43.52	-15.23	0-360	100	V
8	782.3676	80.76	Pk	26.7	3.2	110.66	46.02	64.64	0-360	100	V

Pk - Peak detector

Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
47.8265	-2.3	Qp	19.8	.8	18.3	40	-21.7	183	120	H
38.7368	-2.15	Qp	18.3	.7	16.85	40	-23.15	303	100	V

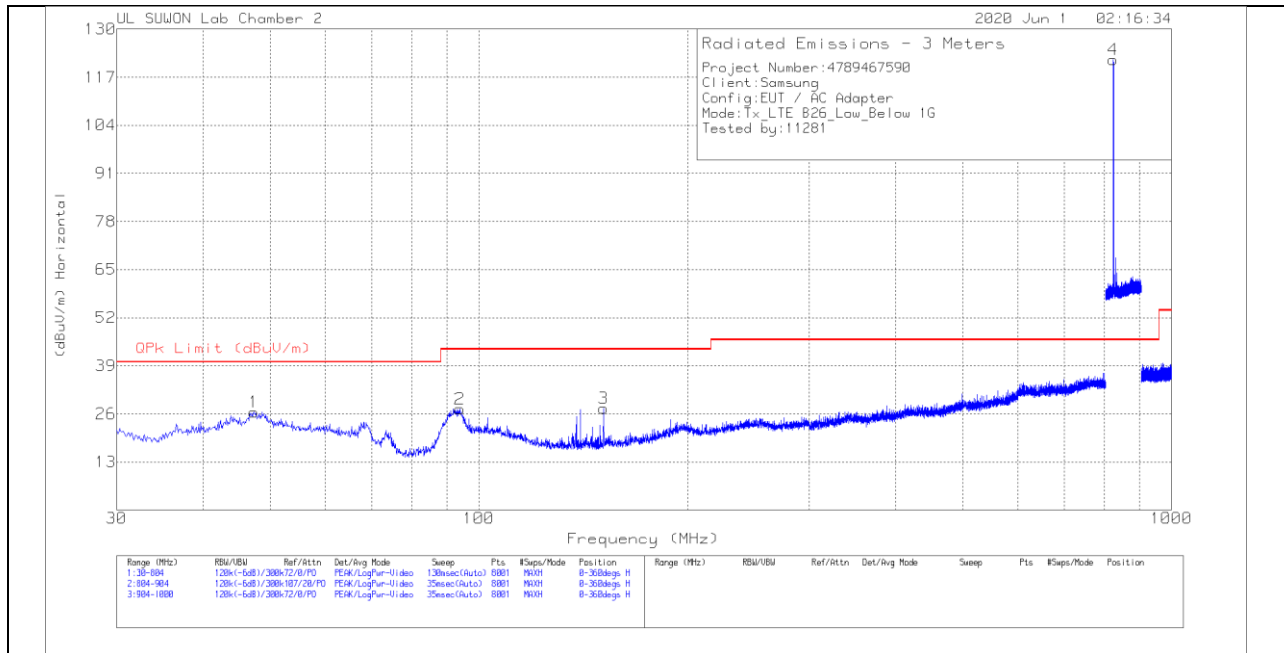
Qp - Quasi-Peak detector

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

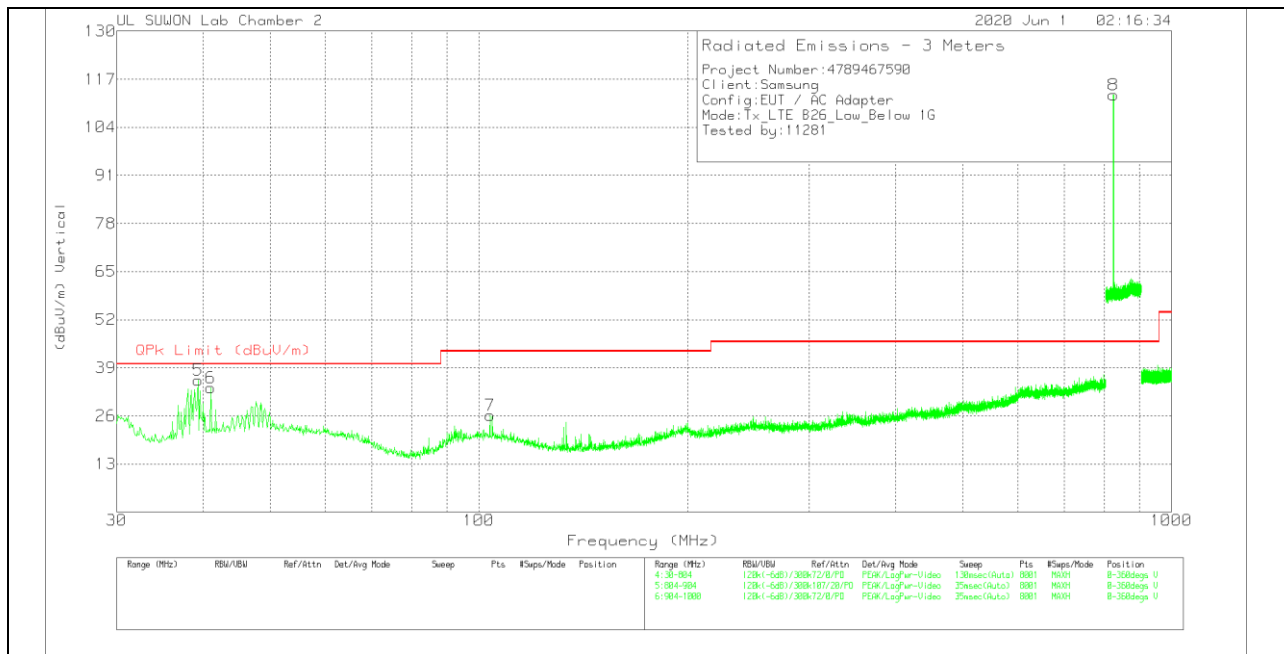
7.10. Below 1 GHz in the LTE Band 26

LOW CHANNEL(864 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	47.3183	5.91	Pk	19.8	.8	26.51	40	-13.49	0-360	400	H
2	93.855	9.34	Pk	16.9	1.1	27.34	43.52	-16.18	0-360	300	H
3	151.4213	12.08	Pk	14.1	1.4	27.58	43.52	-15.94	0-360	300	H
4	824.6	91.72	Pk	26.9	3.2	121.82	46.02	75.8	0-360	100	H
5	39.288	16.45	Pk	18.5	.7	35.65	40	-4.35	0-360	100	V
6	41.0295	13.85	Pk	19	.7	33.55	40	-6.45	0-360	100	V
7	103.8203	7.21	Pk	17.7	1.2	26.11	43.52	-17.41	0-360	100	V
8	824.6625	82.66	Pk	26.9	3.2	112.76	46.02	66.74	0-360	100	V

Pk - Peak detector

Radiated Emissions

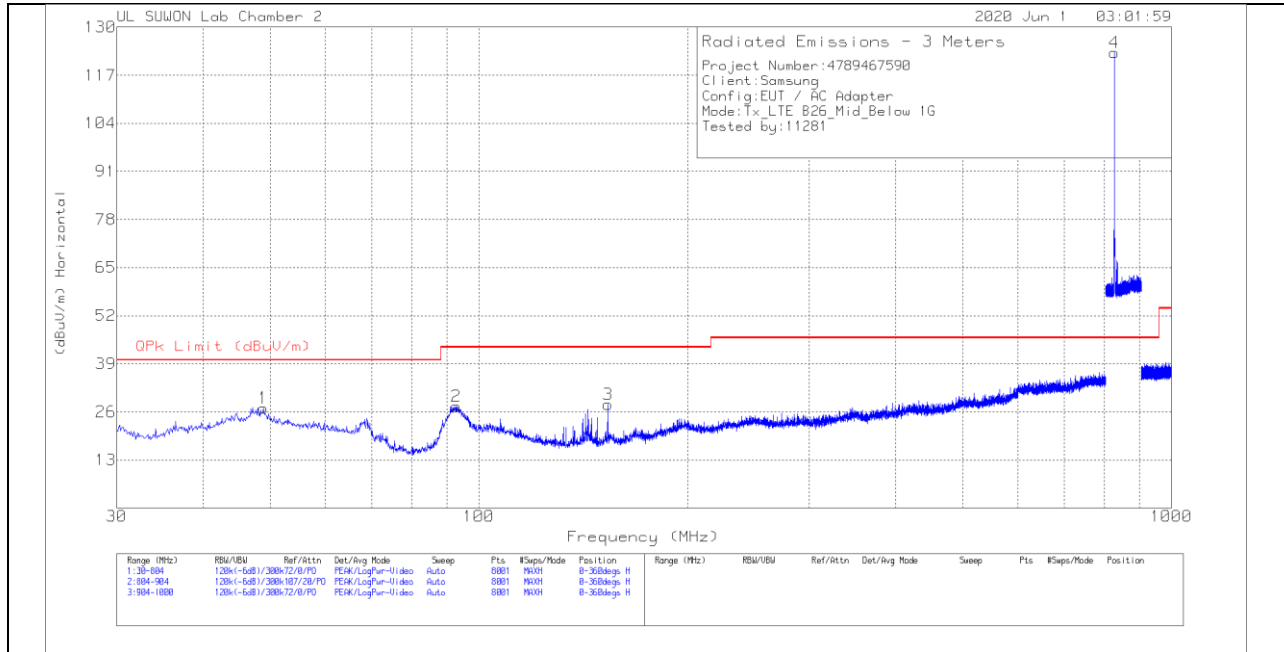
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
47.3183	-2.37	Qp	19.8	.8	18.23	40	-21.77	335	109	H
39.288	-2.17	Qp	18.5	.7	17.03	40	-22.97	236	109	V

Qp - Quasi-Peak detector

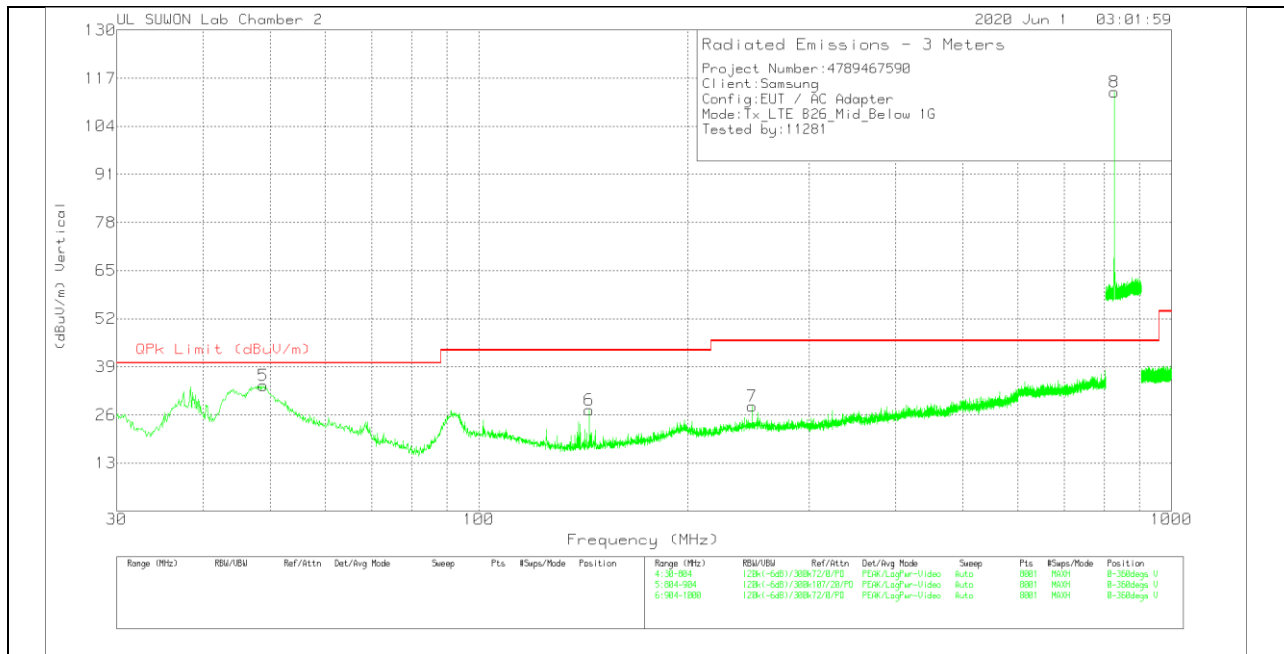
Note: Unwanted emissions captured from 814MHz to 849MHz and from 859MHz to 894MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(876.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	48.8663	6.49	Pk	19.8	.8	27.09	40	-12.91	0-360	300	H
2	92.694	9.86	Pk	16.6	1.1	27.56	43.52	-15.96	0-360	300	H
3	153.5498	12.4	Pk	14.2	1.4	28	43.52	-15.52	0-360	200	H
4	827.1625	92.91	Pk	27	3.2	123.11	46.02	77.09	0-360	100	H
5	48.8663	13.32	Pk	19.8	.8	33.92	40	-6.08	0-360	100	V
6	144.3585	11.88	Pk	14.1	1.3	27.28	43.52	-16.24	0-360	100	V
7	248.0745	7.73	Pk	18.9	1.8	28.43	46.02	-17.59	0-360	200	V
8	827.05	83.09	Pk	27	3.2	113.29	46.02	67.27	0-360	100	V

Pk - Peak detector

Radiated Emissions

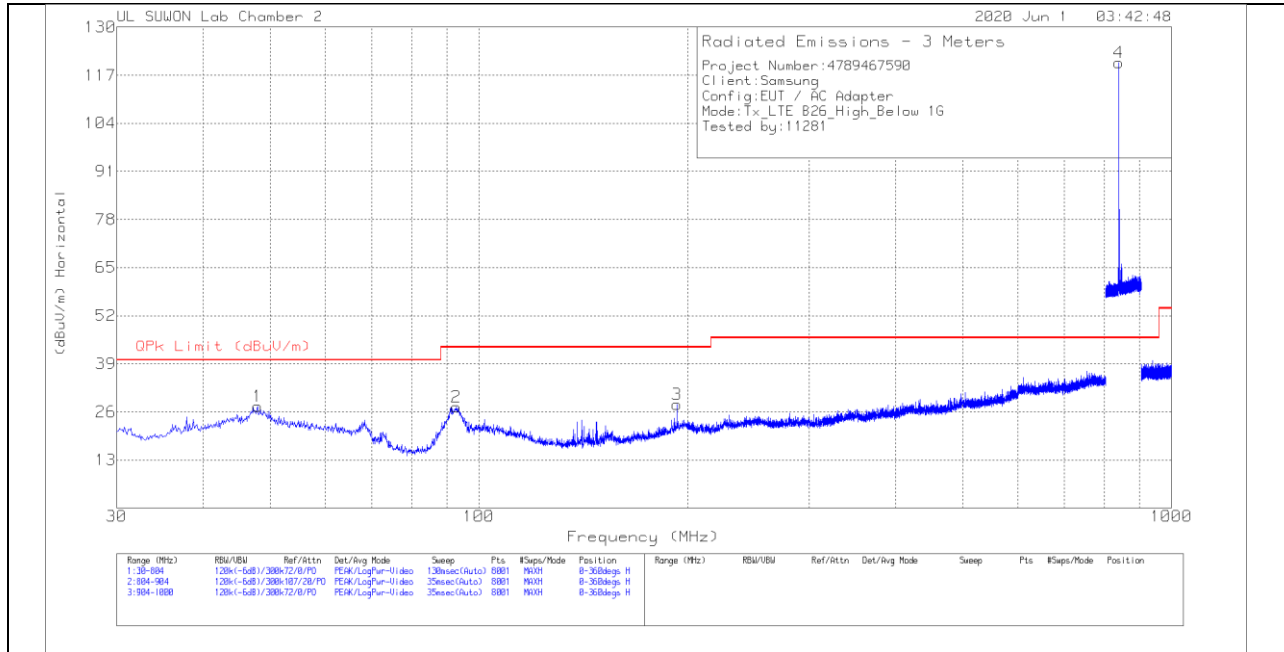
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
48.8663	1.95	Qp	19.8	.8	22.55	40	-17.45	164	122	H
48.8663	9.95	Qp	19.8	.8	30.55	40	-9.45	170	103	V

Qp - Quasi-Peak detector

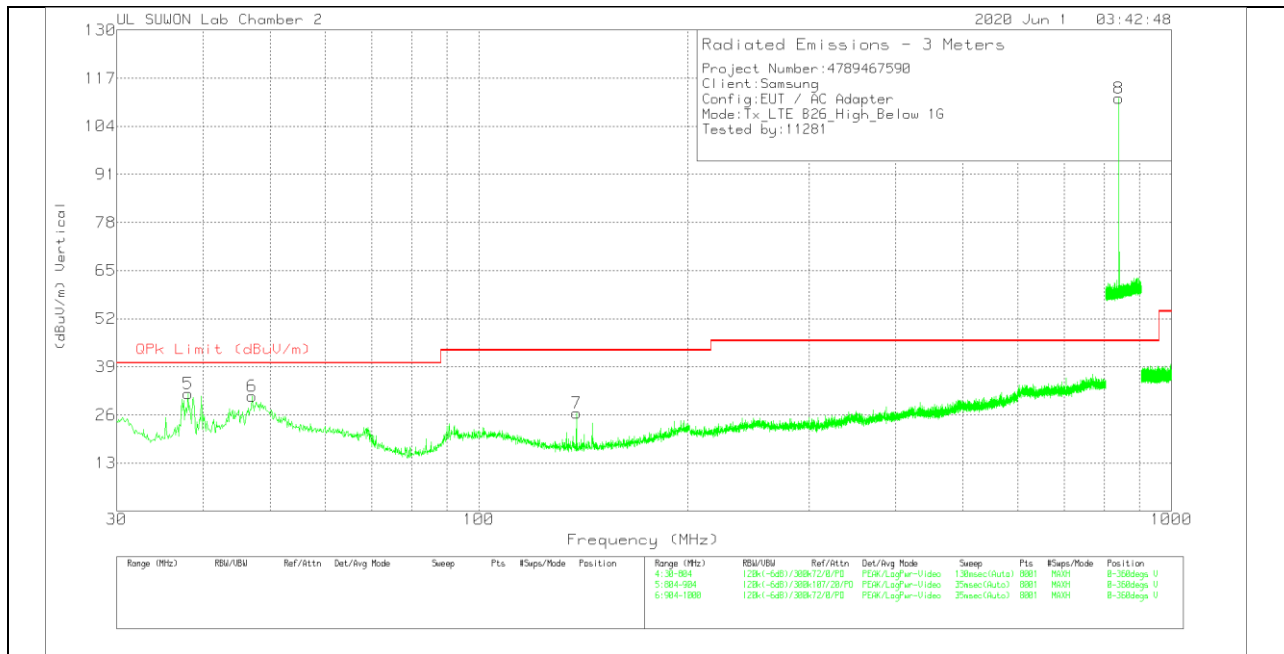
Note: Unwanted emissions captured from 814MHz to 849MHz and from 859MHz to 894MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(889 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	47.8988	6.88	Pk	19.8	.8	27.48	40	-12.52	0-360	300	H
2	92.7908	9.69	Pk	16.6	1.1	27.39	43.52	-16.13	0-360	300	H
3	193.2173	8.65	Pk	17.7	1.6	27.95	43.52	-15.57	0-360	200	H
4	839.55	90.04	Pk	27.1	3.3	120.44	46.02	74.42	0-360	100	H
5	38.0303	13.08	Pk	17.9	.7	31.68	40	-8.32	0-360	200	V
6	47.028	10.41	Pk	19.8	.8	31.01	40	-8.99	0-360	100	V
7	138.36	11.14	Pk	14.1	1.3	26.54	43.52	-16.98	0-360	100	V
8	839.5375	81.13	Pk	27.1	3.3	111.53	46.02	65.51	0-360	200	V

Pk - Peak detector

Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
47.8988	1.76	Qp	19.8	.8	22.36	40	-17.64	164	123	H
38.0303	7.41	Qp	17.9	.7	26.01	40	-13.99	211	100	V

Qp - Quasi-Peak detector

Note: Unwanted emissions captured from 814MHz to 849MHz and from 859MHz to 894MHz were the TX and RX signals generated from the call-simulator.

END OF TEST REPORT