



CERTIFICATION TEST REPORT

Report Number. : 4789793179-E1V2

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

Model : SM-A125U, SM-S127DL, SM-A125U1/DS

FCC ID : A3LSMA125U

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

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

Date Of Issue:

March 05, 2021

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	03/02/21	Initial issue	Hyunsik Yun
V2	03/05/21	Updated to address TCB's question	Hyunsik Yun

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.
EUT DESCRIPTION: GSM/CDMA/WCDMA/LTE Phone + BT/BLE, DTS/UNII a/b/g/n/ac and NFC
MODEL NUMBER: SM-A125U, SM-S127DL, SM-A125U1/DS
SERIAL NUMBER: 4200d129cc2bb75f, 4200ca62d0bbb769, 4200cca6d0e2b7a1 (RADIATED)
DATE TESTED: FEB 10, 2021 – FEB 26, 2021;

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:



Junwhan Lee
Suwon Lab Engineer
UL Korea, Ltd.

Tested By:



Hyunsik Yun
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 checked="" 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	4.26 dB
Radiated Disturbance, 1 GHz to 18 GHz	5.90 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 a GSM/CDMA/WCDMA/LTE Phone + BT/BLE, DTS/UNII a/b/g/n/ac and NFC. This test report addresses the WWAN receiver mode.

This report covers the Samsung models SM-A125U, SM-A125U1/DS and SM-S127DL. These models are identical in hardware except SM-A125U1/DS has dual SIM tray and SM-S127DL is not supported CDMA.

With some pre-scan, model SM-A125U was set for final test.

5.2. TEST MODE

Mode	Description
CDMA BC0	Communicating with Call simulator(CMW500)
CDMA BC10	Communicating with Call simulator(CMW500)
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 14	Communicating with Call simulator(CMW500)
LTE BAND 26	Communicating with Call simulator(CMW500)
LTE BAND 71	Communicating with Call simulator(CMW500)

Note. AC line conducted emission test is documented in Samsung LBE20210079_SM-A125U_EMG Test report.

5.3. WORST-CASE ORIENTATION AND MODE

For LTE B13 / LTE B14, EUT was investigated in three orthogonal orientations X, Y and Z it was determined that X orientation was worst-case orientation.

For CDMA BC0 / LTE B12, EUT was investigated in three orthogonal orientations X, Y and Z it was determined that Y orientation was worst-case orientation.

For CDMA BC10 / WCDMA B5 / GSM 850 / LTE B26 / LTE B71, EUT was investigated in three orthogonal orientations X, Y and Z it was determined that Z orientation was worst-case orientation.

WCDMA Band5

WCDMA Band 5(Rx Frequency range: 871.4-891.6 MHz) is covered by GSM 850(Rx Frequency range: 869-894 MHz) due to same frequency range and maximum tune-up limit is higher than WCDMA Band5. Therefore, only Mid channel was checked.

LTE Band 5

LTE Band 5(Rx Frequency range: 869-894 MHz) is covered by LTE Band 26(Rx Frequency range: 859-894 MHz) due to overlapping frequency range, same maximum tune-up limit and same channel bandwidth.

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

5.4. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Charger	SAMSUNG	EP-TA200	R37NBH409C3SE3	N/A
Data Cable	SAMSUNG	EP-DR140AWE	N/A	N/A
Earphone	SAMSUNG	EHS64AVFWE	N/A	N/A

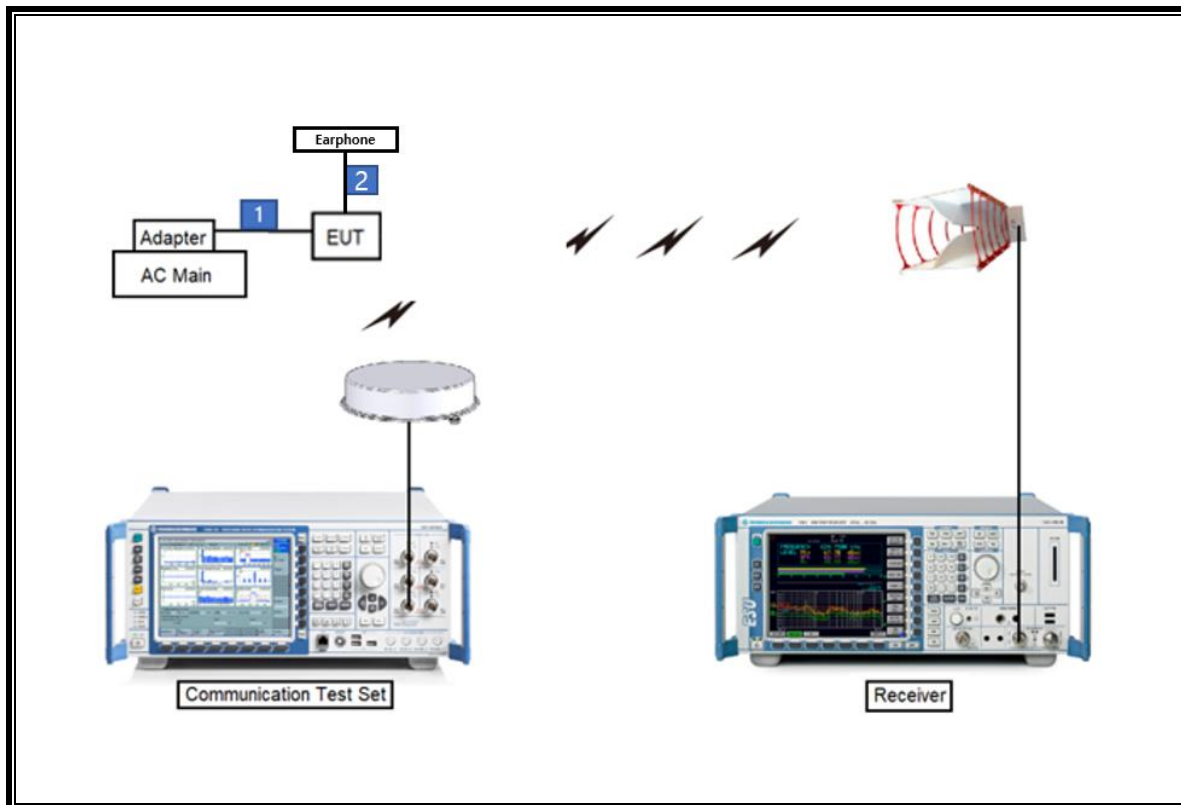
I/O CABLE

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	1.0 m	N/A
2	Audio	2	AUX	Unshielded	1.1 m	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, Horn, 40 GHz	ETS	3116C	00166155	08-04-22
Preamplifier	ETS	3116C-PA	00168841	08-06-21
Antenna, Horn, 40 GHz	ETS	3116C	00168645	08-04-22
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	750	08-19-22
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	845	08-13-22
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	749	08-13-22
Antenna, Horn, 18 GHz	ETS	3115	00167211	07-27-22
Antenna, Horn, 18 GHz	ETS	3115	00161451	08-15-22
Antenna, Horn, 18 GHz	ETS	3117	00168724	07-27-22
Antenna, Horn, 18 GHz	ETS	3117	00168717	08-15-22
Communications Test Set	R&S	CMW500	115331	08-03-21
Preamplifier, 1000 MHz	Sonoma	310N	341282	08-03-21
Preamplifier, 1000 MHz	Sonoma	310N	370599	08-06-21
Preamplifier, 1000 MHz	Sonoma	310N	351741	08-03-21
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1876511	08-03-21
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	2029169	08-04-21
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1896138	08-03-21
EMI Test Receive, 40 GHz	R&S	ESU40	100439	08-03-21
EMI Test Receive, 40 GHz	R&S	ESU40	100457	08-03-21
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	08-05-21
High Pass Filter 1.2GHz	Micro-Tronics	HPM50108-02	G006	08-05-21
High Pass Filter 2.8GHz	Micro-Tronics	HPM50111-02	010	08-05-21
High Pass Filter 2.8GHz	Micro-Tronics	HPM50111-02	011	08-05-21
High Pass Filter 4GHz	Micro-Tronics	HPM50118-02	G001	08-05-21
High Pass Filter 4GHz	Micro-Tronics	HPM50118-02	G002	08-05-21
Attenuator	PASTERNAK	PE7087-10	A009	08-05-21
Attenuator	PASTERNAK	PE7087-10	A001	08-03-21
Attenuator	PASTERNAK	PE7087-10	A008	08-03-21
Attenuator	PASTERNAK	PE7004-10	2	08-04-21
Attenuator	PASTERNAK	PE7395-10	A011	08-05-21
UL Software				
Description	Manufacturer	Model	Version	
Radiated software	UL	UL EMC	Ver 9.5	
AC Line Conducted 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:

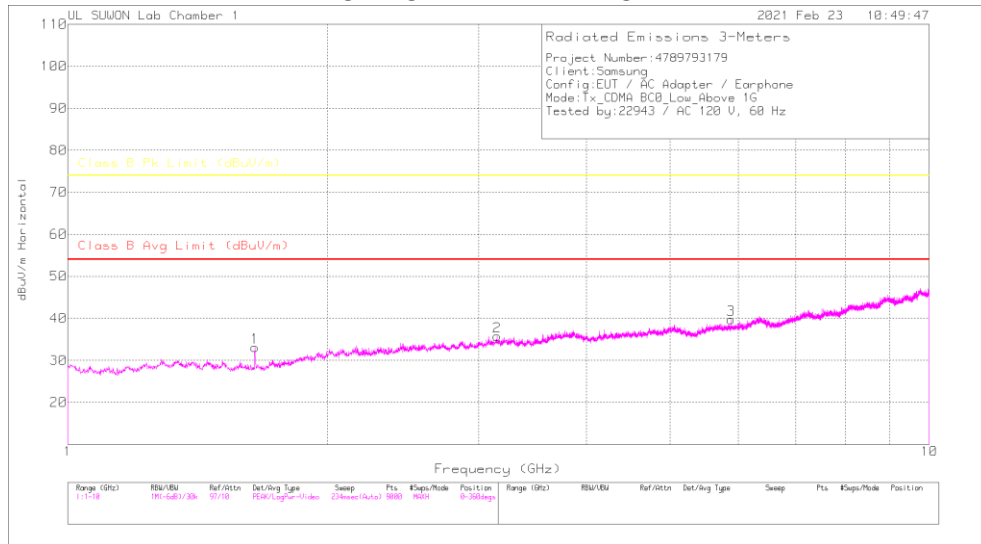
Limits for radiated disturbance of Class B ITE at measuring distance of 3 m	
Frequency range (MHz)	Quasi-peak limits (dB μ V/m)
30 to 88	40
88 to 216	43.5
216 to 960	46
Above 960 MHz	54

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

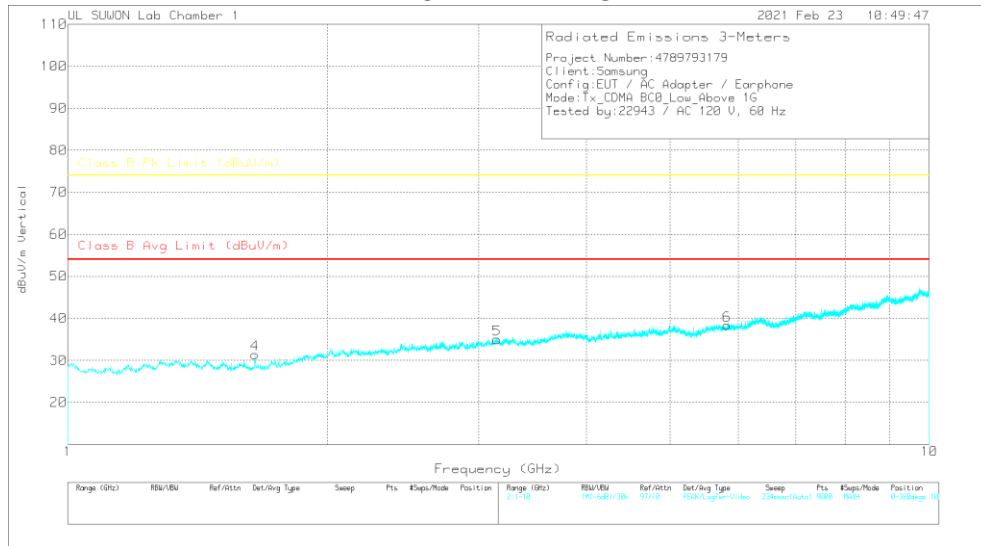
7.1. Above 1 GHz in the CDMA BC0

LOW CHANNEL(860 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

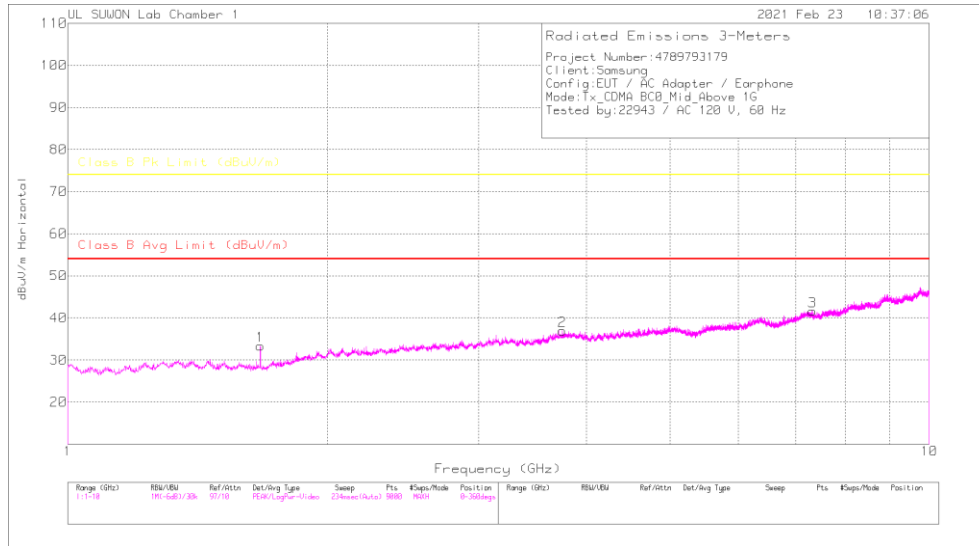
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	1-18GHz[dB]	1GHz_HPF	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Av[CISPR]Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Acimuth (Degs)	Height (cm)	Polarity
1	1.64907	40.61	PK	28.4	-36.5	.6	33.11	-	-	74	-40.89	0-360	200	H
2	3.15124	36.44	PK	32.7	-34	.6	35.74	-	-	74	-38.26	0-360	100	H
3	5.89154	35.01	PK	35.1	-30.9	.5	39.71	-	-	74	-34.29	0-360	200	H
4	1.65007	38.93	PK	28.4	-36.5	.6	31.43	-	-	74	-42.57	0-360	100	V
5	3.14824	35.6	PK	32.7	-34	.7	35	-	-	74	-39	0-360	200	V
6	5.82354	33.91	PK	35	-31	.4	38.31	-	-	74	-35.69	0-360	200	V

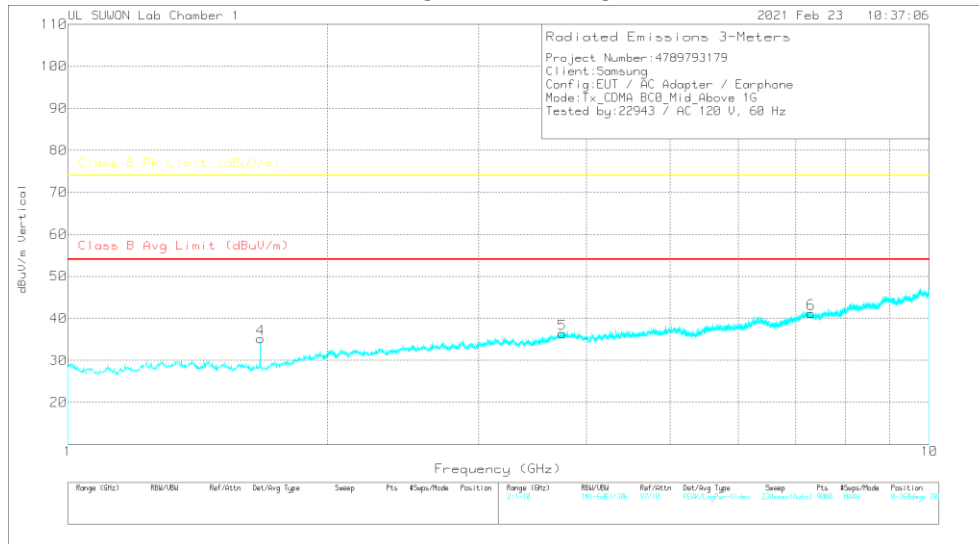
PK-Peak Detector

MID CHANNEL(877 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

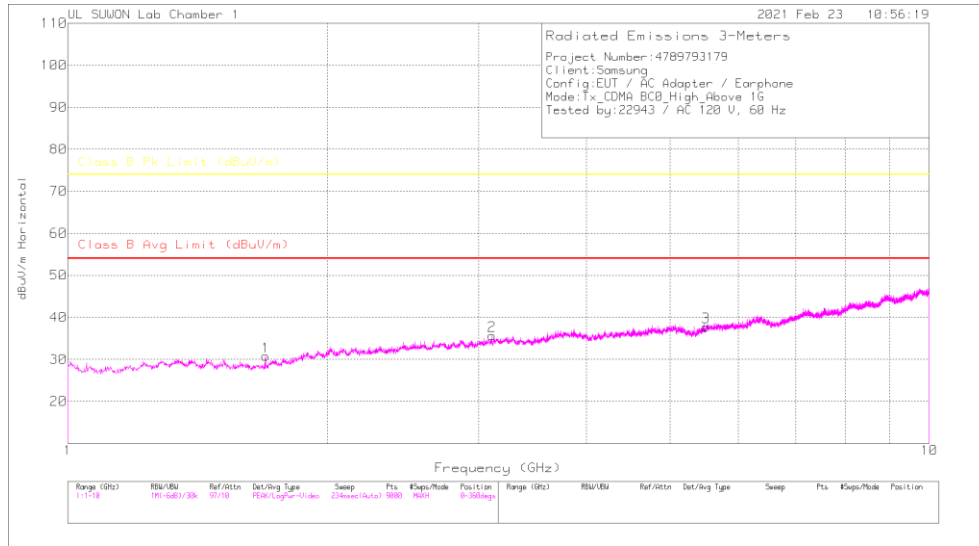
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	1-18GHz[dB]	1GHz_HPFF	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	1.67307	40.98	PK	28.5	-36.6	.5	33.38	-	-	74	-40.62	0-360	100	H
2	3.75231	36.65	PK	33.1	-33.3	.5	36.95	-	-	74	-37.05	0-360	200	H
3	7.3187	33.52	PK	35.8	-28.1	.4	41.62	-	-	74	-32.38	0-360	100	H
4	1.67407	42.73	PK	28.5	-36.6	.5	35.13	-	-	74	-38.87	0-360	200	V
5	3.75031	36.06	PK	33.1	-33.3	.5	36.36	-	-	74	-37.64	0-360	100	V
6	7.2957	32.97	PK	35.8	-28.1	.5	41.17	-	-	74	-32.83	0-360	200	V

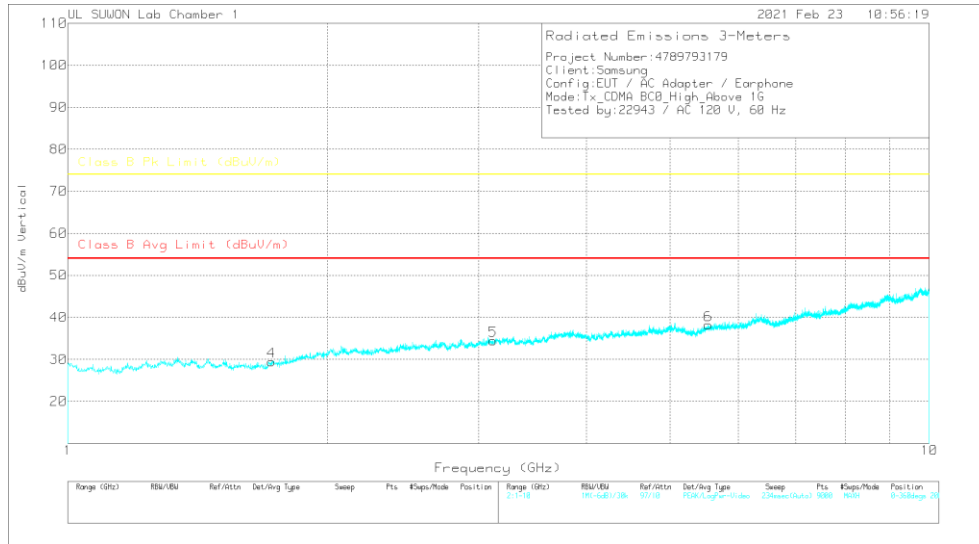
PK – Peak Detector

HIGH CHANNEL(897 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

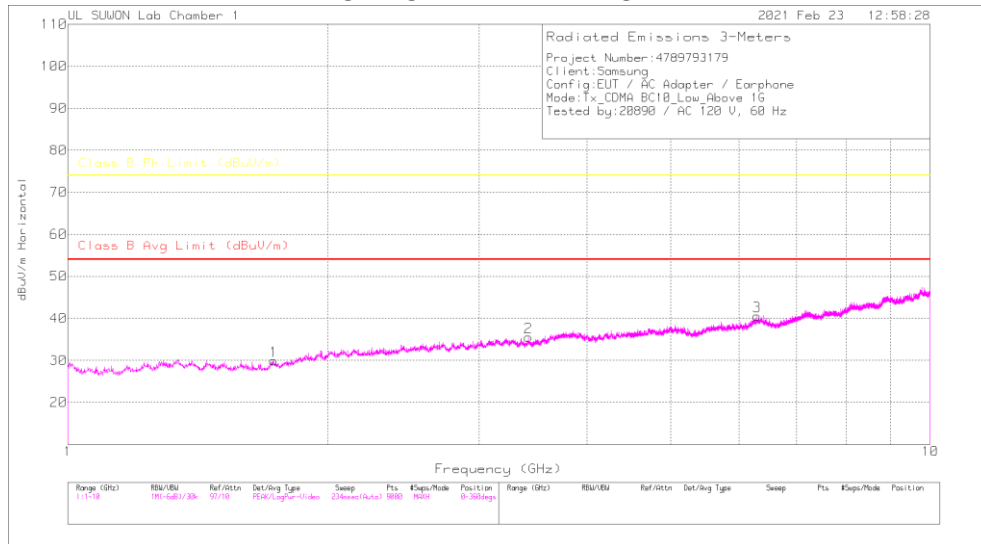
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117.00168717	1-18GHz(dB)	1GHz_HPF	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Avi(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Antenna (Degs)	Height (cm)	Polarity
1	1.69708	38.14	PK	28.6	-36.6	.6	30.74	-	-	74	-43.26	0-360	100	H
2	3.10823	36.49	PK	32.6	-34.1	.7	35.69	-	-	74	-38.31	0-360	100	H
3	5.5085	34.05	PK	34.6	-31.3	.4	37.75	-	-	74	-36.25	0-360	100	H
4	1.72308	36.28	PK	28.8	-36.4	.8	29.48	-	-	74	-44.52	0-360	200	V
5	3.11523	35.17	PK	32.6	-34	.7	34.47	-	-	74	-39.53	0-360	100	V
6	5.5395	34.3	PK	34.6	-31.2	.5	38.2	-	-	74	-36.8	0-360	200	V

PK – Peak Detector

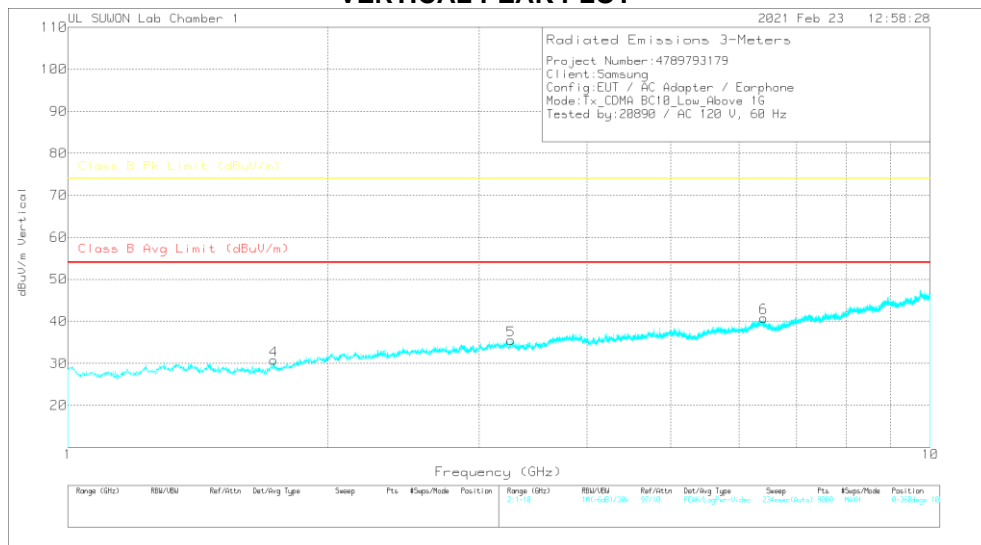
7.2. Above 1 GHz in the CDMA BC10

LOW CHANNEL(851 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

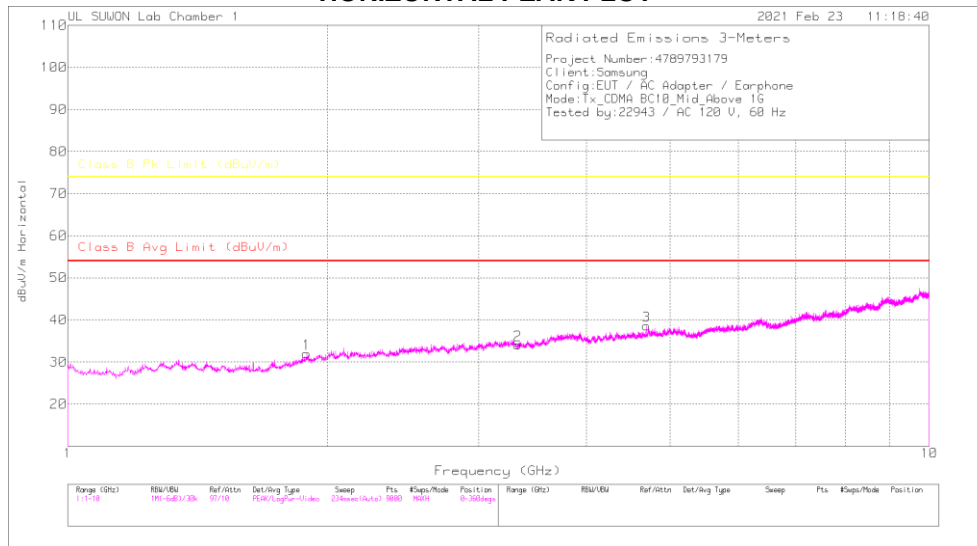
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	1-18Hz[dB]	1GHz_HPF	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	1.73308	36.65	PK	28.9	-36.4	.8	29.95	-	-	74	-44.05	0-360	200	H
2	3.42127	35.86	PK	32.7	-33.6	.6	35.56	-	-	74	-38.44	0-360	100	H
3	6.29659	34.77	PK	35.5	-30	.3	40.57	-	-	74	-33.43	0-360	200	H
4	1.73308	37.44	PK	28.9	-36.4	.8	30.74	-	-	74	-43.26	0-360	200	V
5	3.26525	35.9	PK	32.7	-33.9	.8	35.5	-	-	74	-38.5	0-360	100	V
6	6.4086	34.75	PK	35.5	-29.9	.5	40.85	-	-	74	-33.15	0-360	100	V

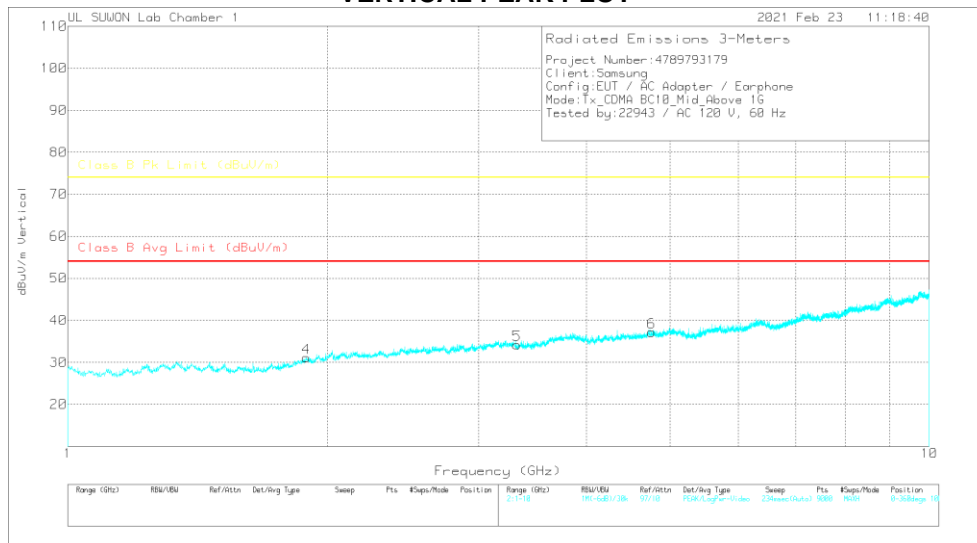
PK-Peak Detector

MID CHANNEL(895.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

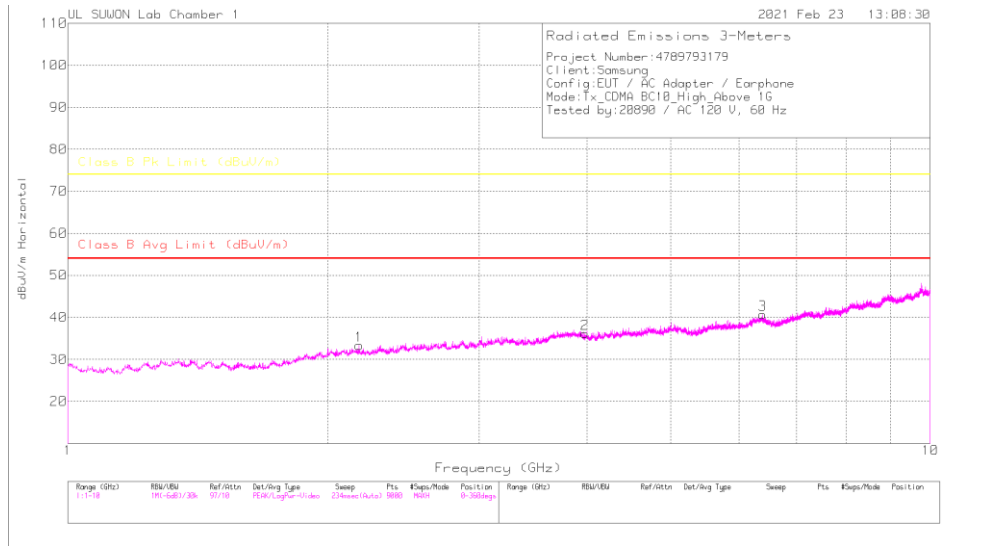
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	1-18GHz[dB]	1GHz_HPF	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	1.8931	36.9	PK	30.6	-36.2	.7	32	-	-	74	-42	0-360	200	H
2	3.32826	34.88	PK	32.6	-33.9	.5	34.08	-	-	74	-39.92	0-360	100	H
3	4.69641	36.44	PK	34.1	-32.3	.4	38.64	-	-	74	-35.36	0-360	200	H
4	1.8921	36.01	PK	30.6	-36.2	.7	31.11	-	-	74	-42.89	0-360	200	V
5	3.32226	35.01	PK	32.6	-33.9	.5	34.21	-	-	74	-39.79	0-360	200	V
6	4.76042	34.8	PK	34.1	-32.1	.4	37.2	-	-	74	-36.8	0-360	200	V

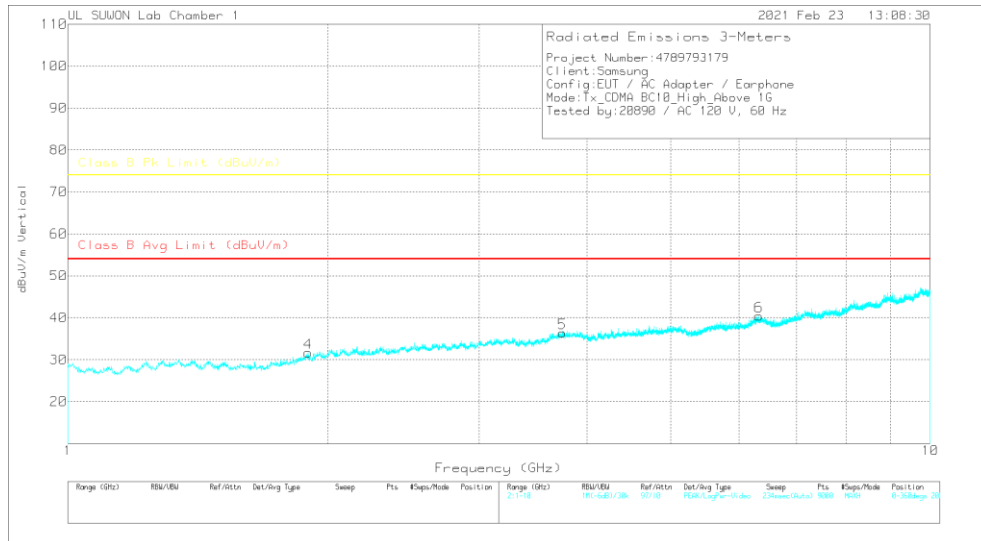
PK – Peak Detector

HIGH CHANNEL(940 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

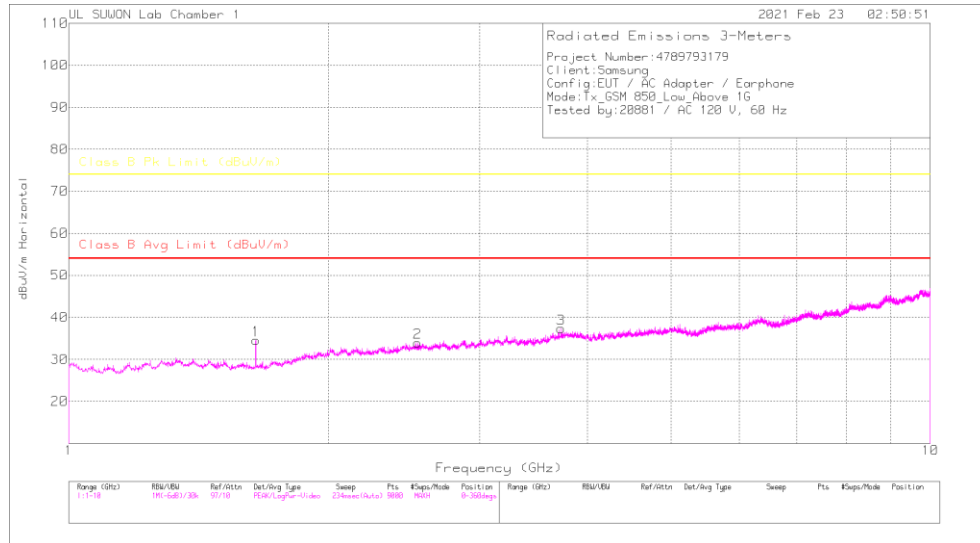
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	1-18GHz(dB)	1GHz_HPF	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.17713	37.03	PK	31.5	-35.8	.6	33.33	-	-	74	-40.67	0-360	200	H
2	3.97733	35.24	PK	33.4	-32.9	.4	36.14	-	-	74	-37.86	0-360	200	H
3	6.3916	34.47	PK	35.5	-29.8	.5	40.67	-	-	74	-33.33	0-360	200	H
4	1.9001	36.59	PK	30.7	-36.3	.7	31.69	-	-	74	-42.31	0-360	100	V
5	3.7453	36.29	PK	33	-33.4	.5	36.39	-	-	74	-37.61	0-360	200	V
6	6.32959	34.66	PK	35.5	-30	.3	40.46	-	-	74	-33.54	0-360	200	V

PK – Peak Detector

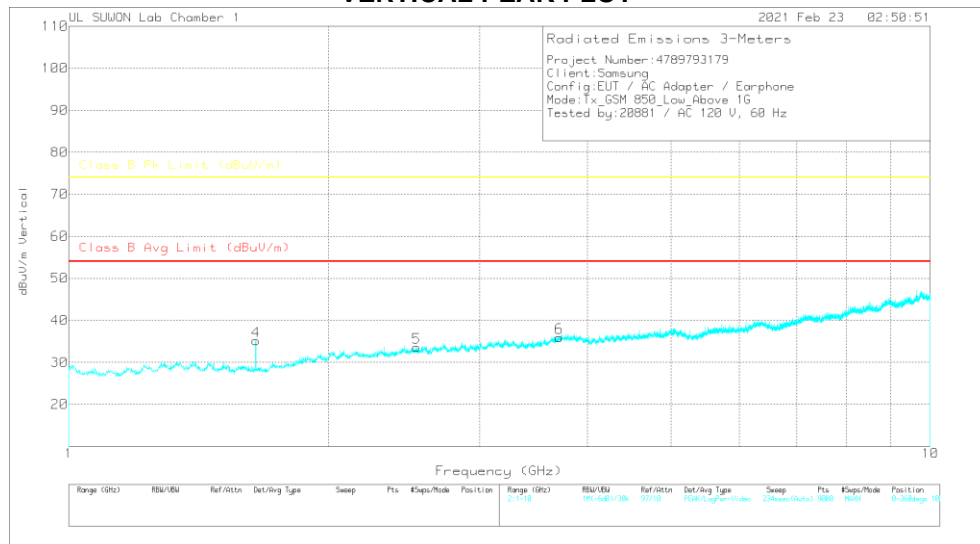
7.3. Above 1 GHz in the GSM850

LOW CHANNEL(869.2 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

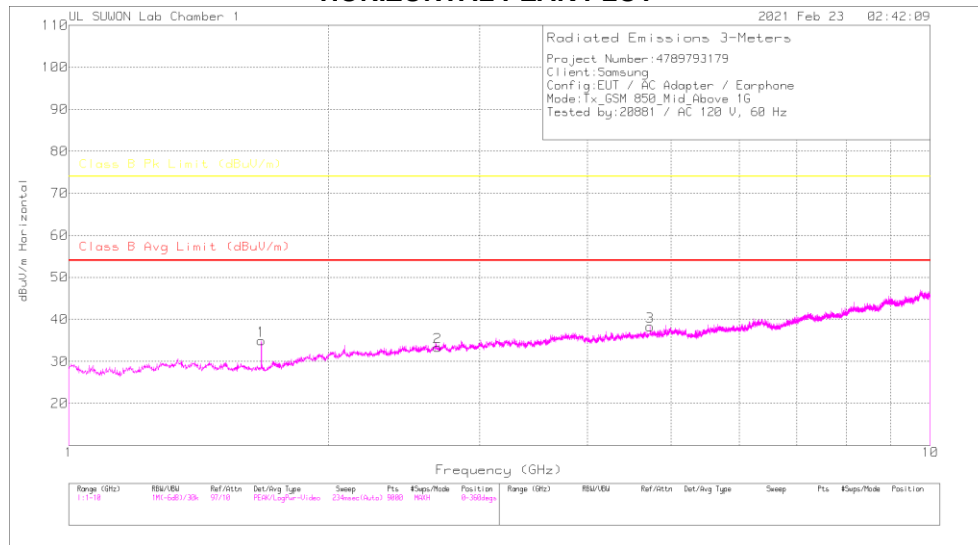
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	1-18GHz(dB)	1GHz_HPF	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	AvCISPRMargin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.64907	42.07	PK	28.4	-36.5	.6	34.57	-	-	74	-39.43	0-360	200	H
2	2.54117	36.1	PK	32	-34.8	.7	34	-	-	74	-40	0-360	200	H
3	3.7273	37.24	PK	33	-33.4	.5	37.34	-	-	74	-36.66	0-360	200	H
4	1.64907	42.64	PK	28.4	-36.5	.6	35.14	-	-	74	-38.86	0-360	200	V
5	2.53317	35.89	PK	32	-34.9	.6	33.59	-	-	74	-40.41	0-360	100	V
6	3.7103	35.82	PK	33	-33.4	.5	35.92	-	-	74	-38.08	0-360	100	V

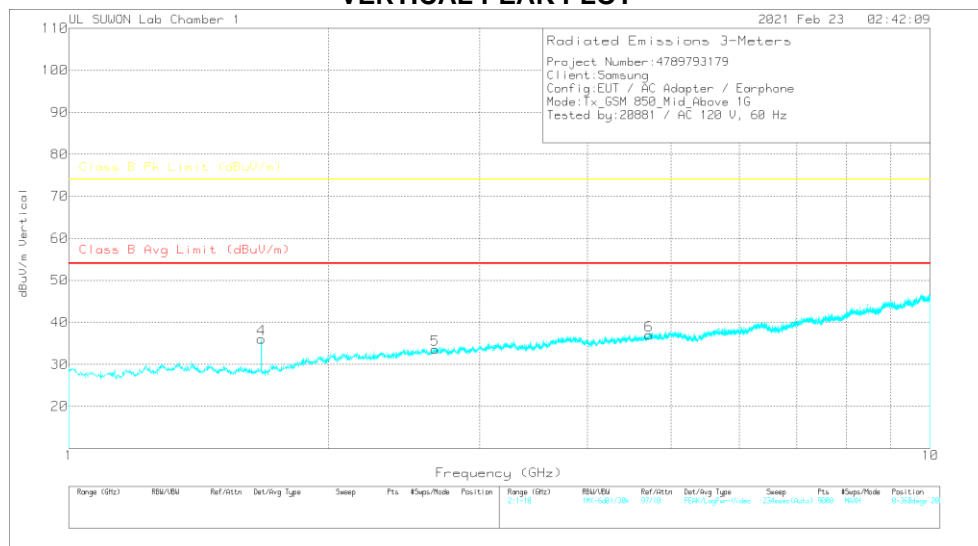
PK-Peak Detector

MID CHANNEL(881.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

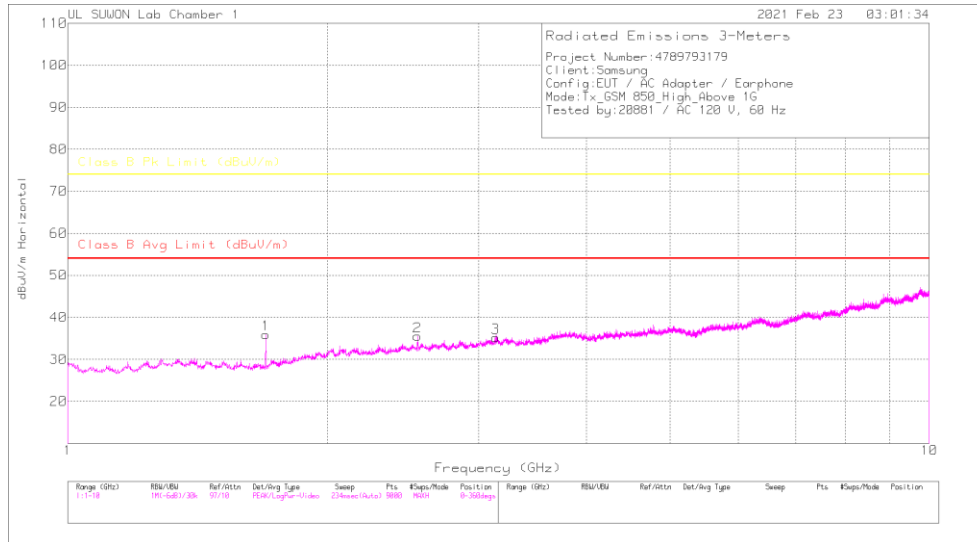
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	1-18GHz[dB]	1GHz_HPF	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	1.67307	42.56	PK	28.5	-36.6	.5	34.96	-	-	74	-39.04	0-360	100	H
2	2.68119	35.09	PK	32.1	-34.6	.8	33.39	-	-	74	-40.61	0-360	200	H
3	4.72841	36	PK	34.1	-32.2	.4	38.3	-	-	74	-35.7	0-360	200	H
4	1.67307	43.63	PK	28.5	-36.6	.5	36.03	-	-	74	-37.97	0-360	200	V
5	2.68218	35.65	PK	32.1	-34.9	.7	33.55	-	-	74	-40.45	0-360	200	V
6	4.71641	34.77	PK	34.1	-32.3	.4	36.97	-	-	74	-37.03	0-360	200	V

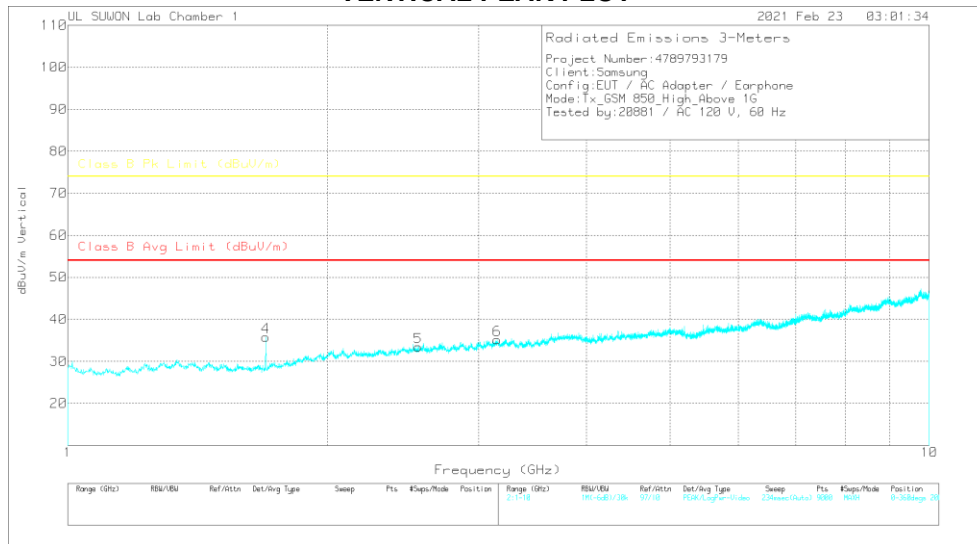
PK – Peak Detector

HIGH CHANNEL(893.8 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

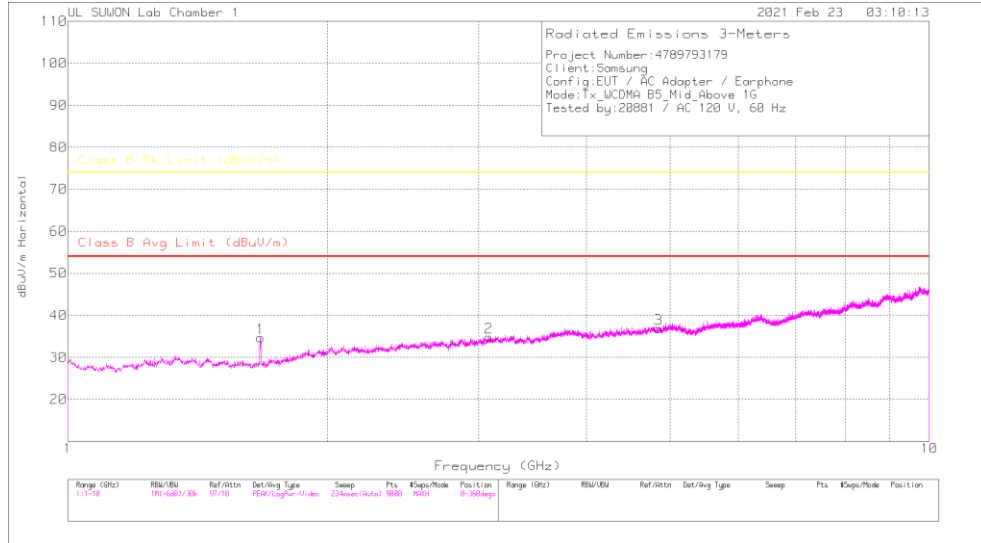
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	1-185Hz[dB]	1GHz_HPF	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.69808	43.36	PK	28.6	-36.6	.6	35.96	-	-	74	-38.04	0-360	100	H
2	2.54617	37.6	PK	32	-34.8	.7	35.5	-	-	74	-38.5	0-360	200	H
3	3.13724	35.8	PK	32.7	-34	.7	35.2	-	-	74	-38.8	0-360	200	H
4	1.69808	43.19	PK	28.6	-36.6	.6	35.79	-	-	74	-38.21	0-360	200	V
5	2.55217	35.35	PK	32.1	-34.7	.7	33.45	-	-	74	-40.55	0-360	100	V
6	3.15124	35.84	PK	32.7	-34	.6	35.14	-	-	74	-38.86	0-360	100	V

PK – Peak Detector

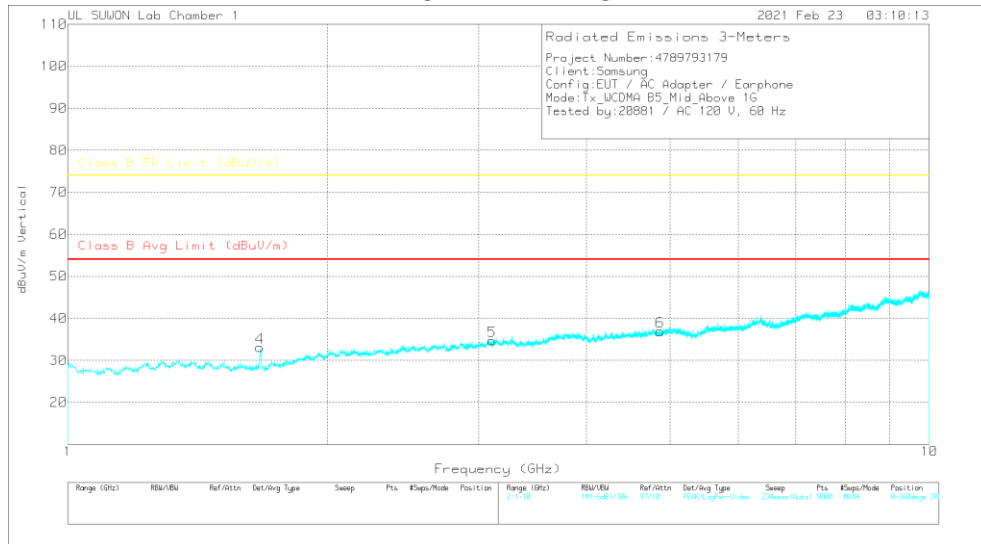
7.4. Above 1 GHz in the WCDMA Band 5

MID CHANNEL(881.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

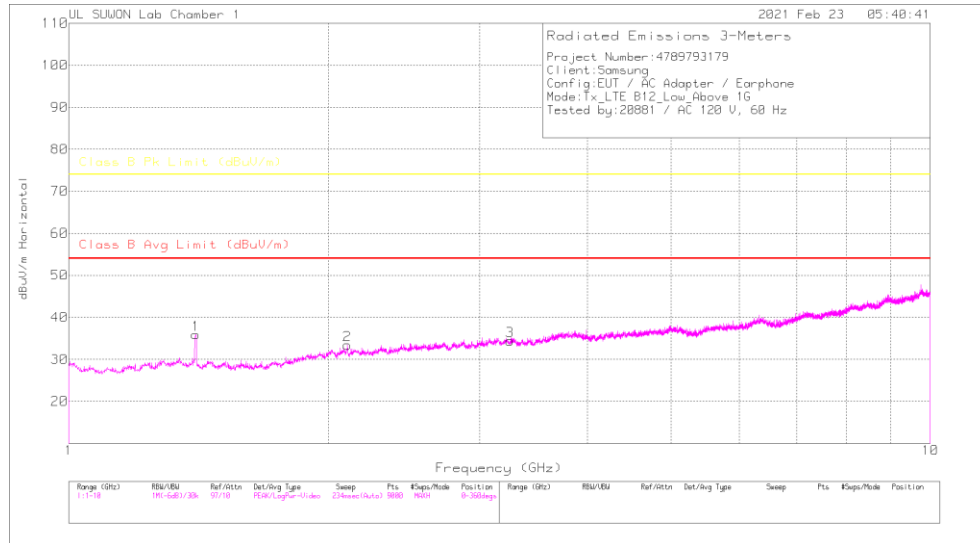
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	1-18GHz(dB)	1GHz_HPF	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.67507	42.42	PK		-36.7	.5	34.72	-	-	74	-39.28	0-360	200	H
2	3.08123	35.63	PK		-33.9	.6	34.83	-	-	74	-39.17	0-360	200	H
3	4.84943	34.28	PK		-31.9	.4	36.88	-	-	74	-37.12	0-360	100	H
4	1.67107	40.69	PK		-36.6	.5	33.09	-	-	74	-40.91	0-360	200	V
5	3.10723	35.5	PK		-34.1	.7	34.7	-	-	74	-39.3	0-360	200	V
6	4.87043	34.46	PK		-32	.4	36.96	-	-	74	-37.04	0-360	100	V

PK – Peak Detector

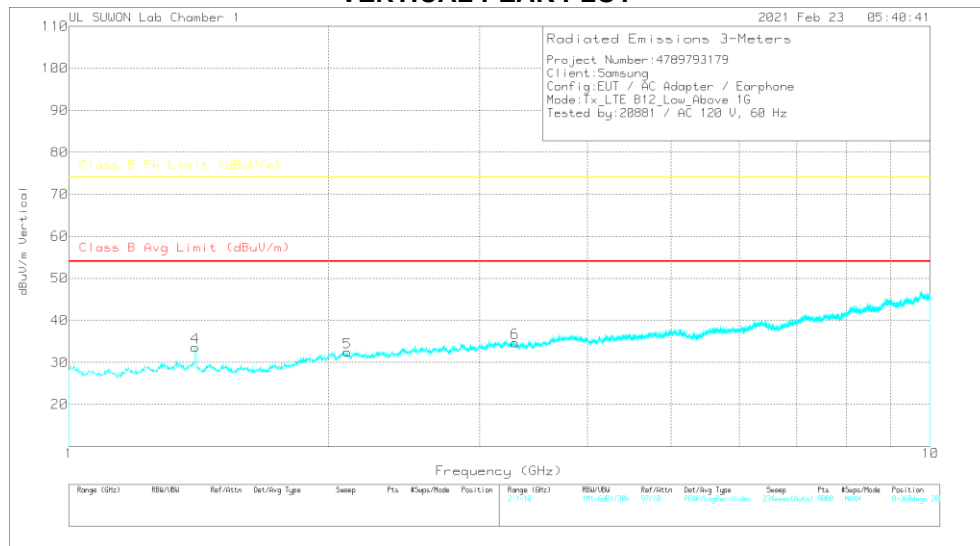
7.5. Above 1 GHz in the LTE Band 12

LOW CHANNEL(731.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

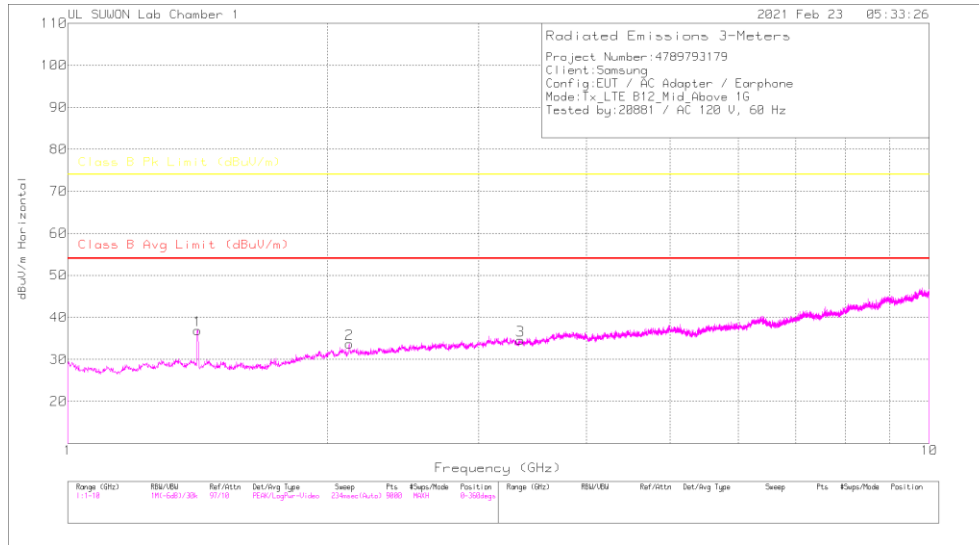
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	1-18GHz(dB)	1GHz_HPF	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	AvCISPRMargin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.40404	42.98	PK	29.4	-37.1	.6	35.88	-	-	74	-38.12	0-360	100	H
2	2.10512	37.11	PK	31.6	-35.8	.5	33.41	-	-	74	-40.59	0-360	100	H
3	3.25025	34.79	PK	32.7	-33.8	.7	34.39	-	-	74	-39.61	0-360	100	H
4	1.40204	40.72	PK	29.4	-37.1	.6	33.62	-	-	74	-40.38	0-360	100	V
5	2.10512	36.16	PK	31.6	-35.8	.5	32.46	-	-	74	-41.54	0-360	100	V
6	3.29525	35.31	PK	32.6	-33.9	.7	34.71	-	-	74	-39.29	0-360	200	V

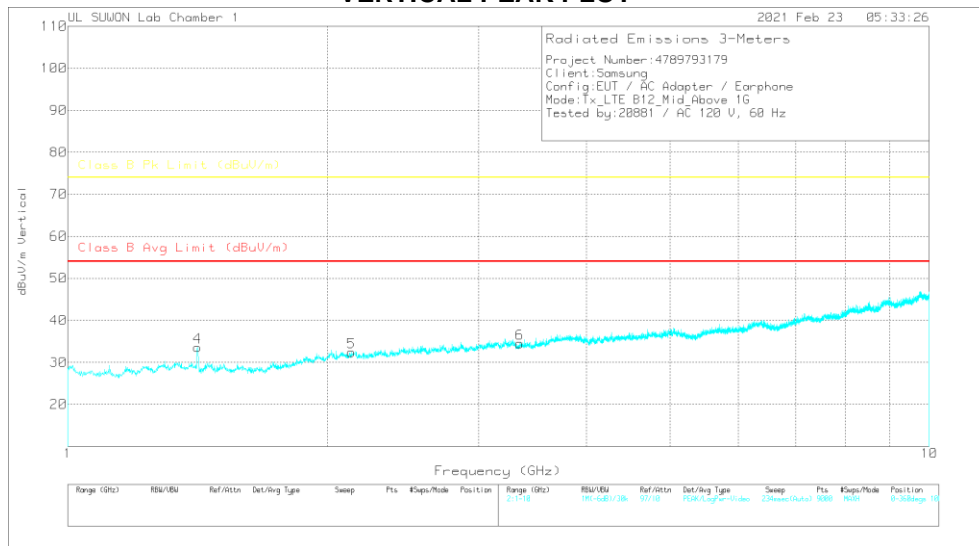
PK – Peak Detector

MID CHANNEL(737.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

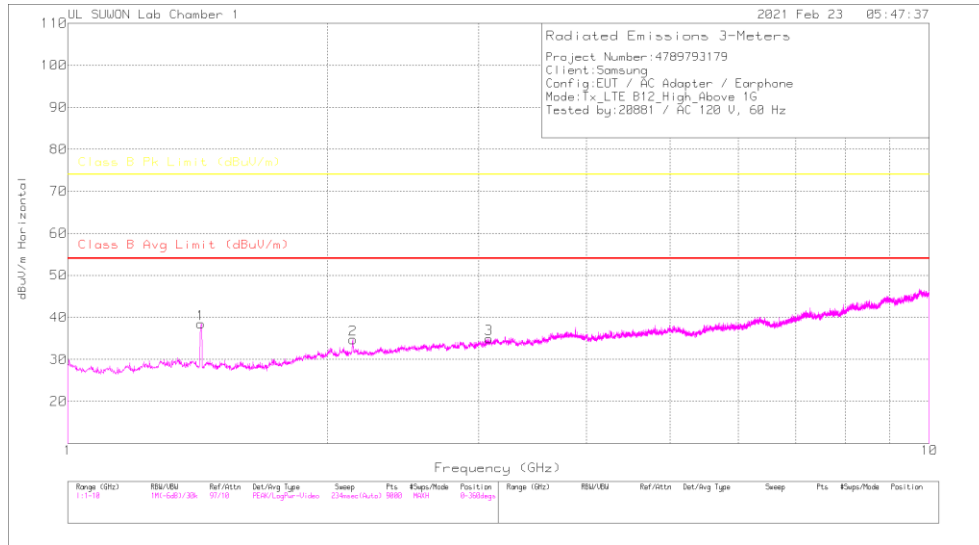
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	1-18GHz(dB)	1GHz_HPF	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	1.41405	44.03	PK	29.3	-37	6	36.93	-	-	74	-37.07	0-360	100	H
2	2.12212	37.13	PK	31.6	-35.6	6	33.73	-	-	74	-40.27	0-360	100	H
3	3.35326	35.37	PK	32.6	-33.9	5	34.57	-	-	74	-39.43	0-360	100	H
4	1.41505	40.72	PK	29.3	-37	6	33.62	-	-	74	-40.38	0-360	200	V
5	2.13413	35.73	PK	31.6	-35.5	6	32.43	-	-	74	-41.57	0-360	200	V
6	3.34526	35.21	PK	32.6	-33.8	5	34.51	-	-	74	-39.49	0-360	200	V

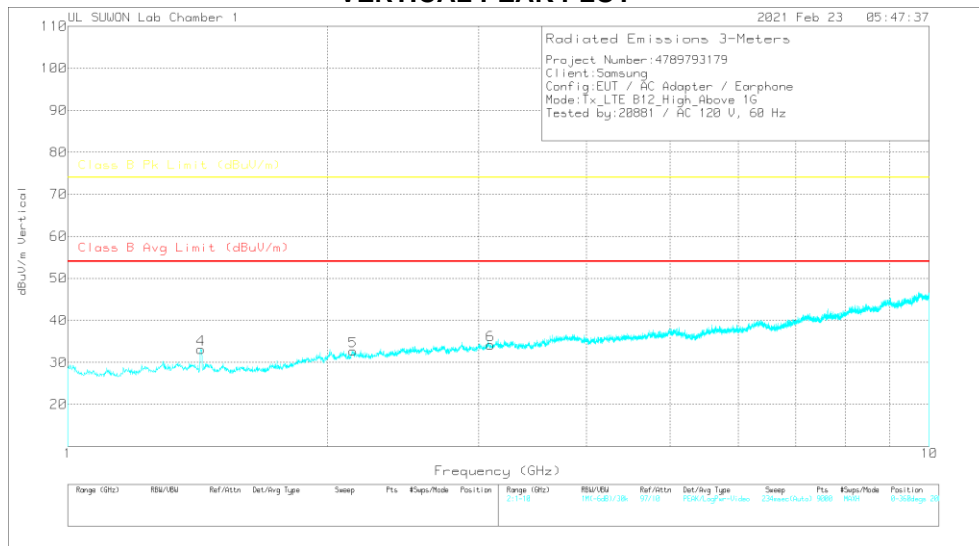
PK – Peak Detector

HIGH CHANNEL(743.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

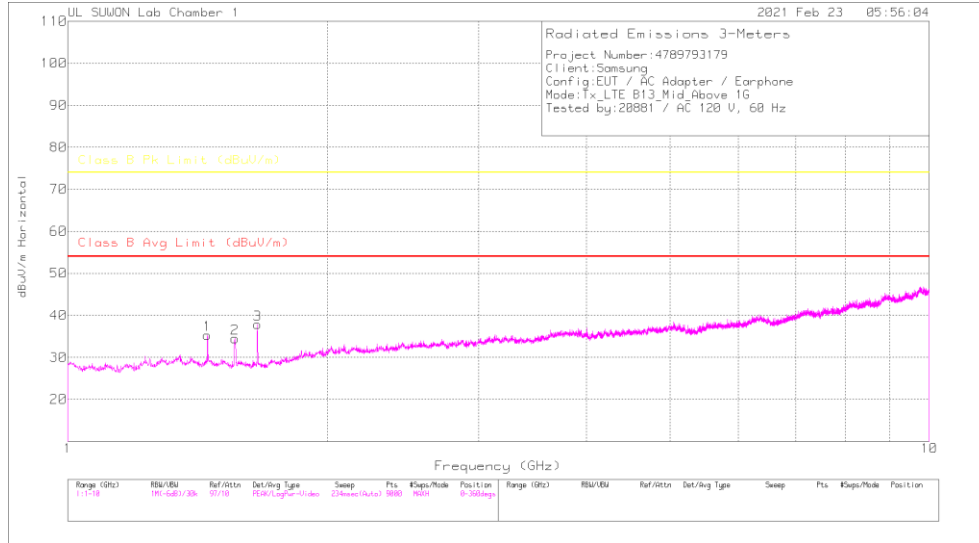
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	1-18GHz[dB]	1GHz_HPF	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.42705	45.54	PK	29.3	-37	.6	38.44	-	-	74	-35.56	0-360	100	H
2	2.14313	37.95	PK	31.6	-35.5	.7	34.75	-	-	74	-39.25	0-360	100	H
3	3.08223	35.72	PK	32.5	-33.9	.6	34.92	-	-	74	-39.08	0-360	100	H
4	1.42705	40.2	PK	29.3	-37	.6	33.1	-	-	74	-40.9	0-360	100	V
5	2.14213	35.92	PK	31.6	-35.5	.7	32.72	-	-	74	-41.28	0-360	200	V
6	3.09423	34.84	PK	32.6	-34	.7	34.14	-	-	74	-39.86	0-360	200	V

PK – Peak Detector

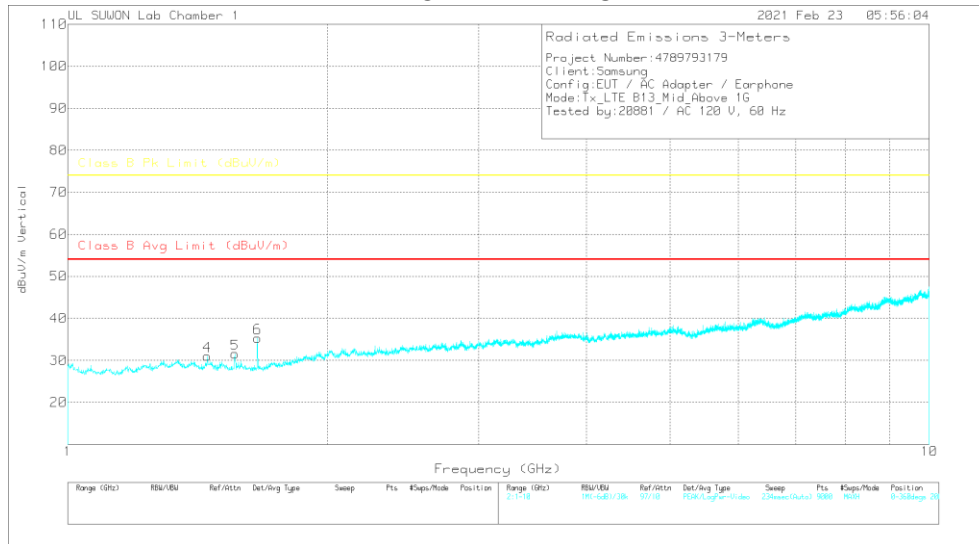
7.6. Above 1 GHz in the LTE Band 13

MID CHANNEL(751.0 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

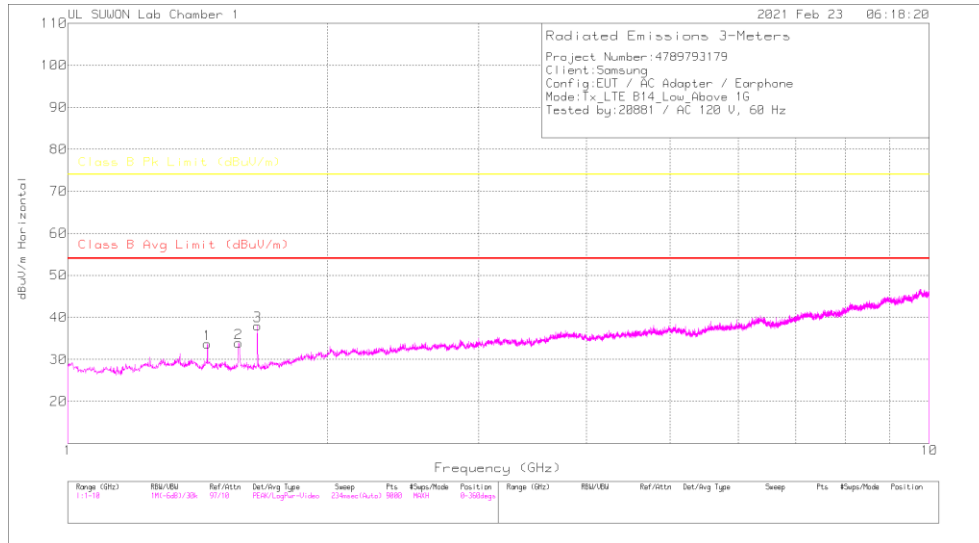
Marker	Frequency (GHz)	Marker Reading (dBuV)	Det	3117_00168717	1-185Hz(dB)	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.45205	42.34	PK	29.1	-36.8	.7	35.34	-	-	74	-38.66	0-360	100	H
2	1.56306	42.1	PK	28.5	-36.7	.6	34.5	-	-	74	-39.5	0-360	200	H
3	1.66007	45.52	PK	28.4	-36.6	.5	37.82	-	-	74	-36.18	0-360	100	H
4	1.45205	38.05	PK	29.1	-36.8	.7	31.05	-	-	74	-42.95	0-360	200	V
5	1.56306	39.16	PK	28.5	-36.7	.6	31.56	-	-	74	-42.44	0-360	200	V
6	1.66007	43.02	PK	28.4	-36.6	.5	35.32	-	-	74	-38.68	0-360	200	V

PK – Peak Detector

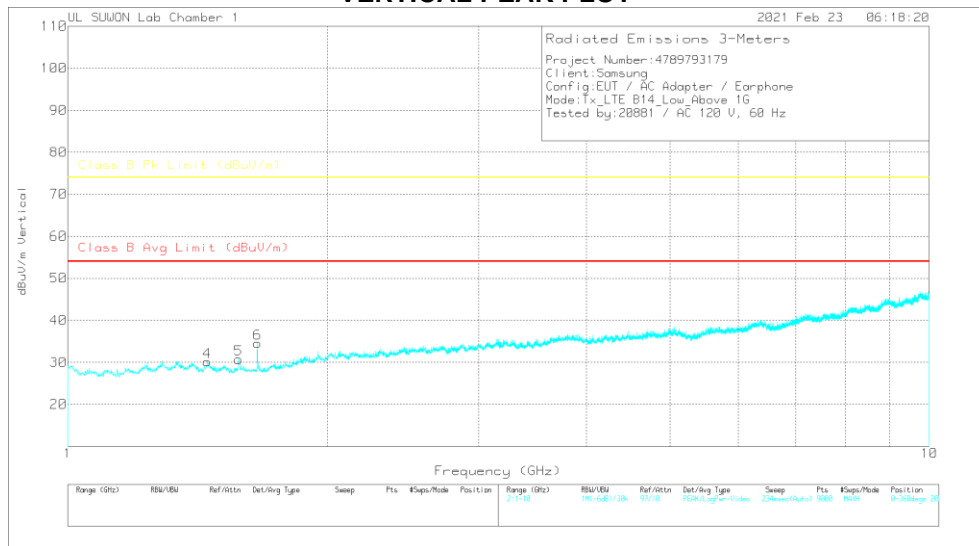
7.7. Above 1 GHz in the LTE Band 14

LOW CHANNEL(760.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

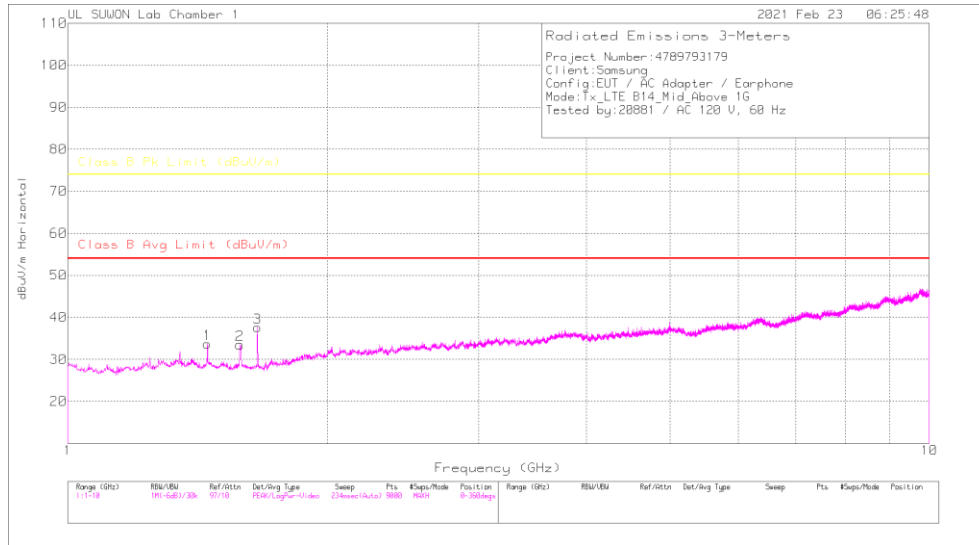
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	1-18GHz(dB)	1GHz_HPF	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	AvCISPRMargin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.45205	40.69	PK	29.1	-36.8	.7	33.69	-	-	74	-40.31	0-360	100	H
2	1.57806	41.29	PK	28.5	-36.6	.7	33.89	-	-	74	-40.11	0-360	200	H
3	1.66007	45.72	PK	28.4	-36.6	.5	38.02	-	-	74	-35.98	0-360	100	H
4	1.45205	37.14	PK	29.1	-36.8	.7	30.14	-	-	74	-43.86	0-360	200	V
5	1.57906	38.12	PK	28.5	-36.6	.7	30.72	-	-	74	-43.28	0-360	200	V
6	1.66007	42.22	PK	28.4	-36.6	.5	34.52	-	-	74	-39.48	0-360	200	V

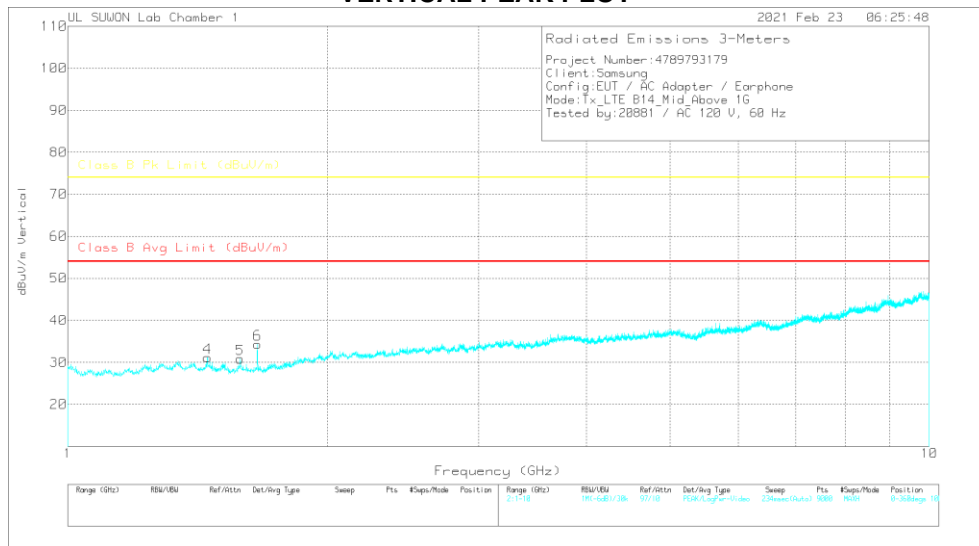
PK – Peak Detector

MID CHANNEL(763 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

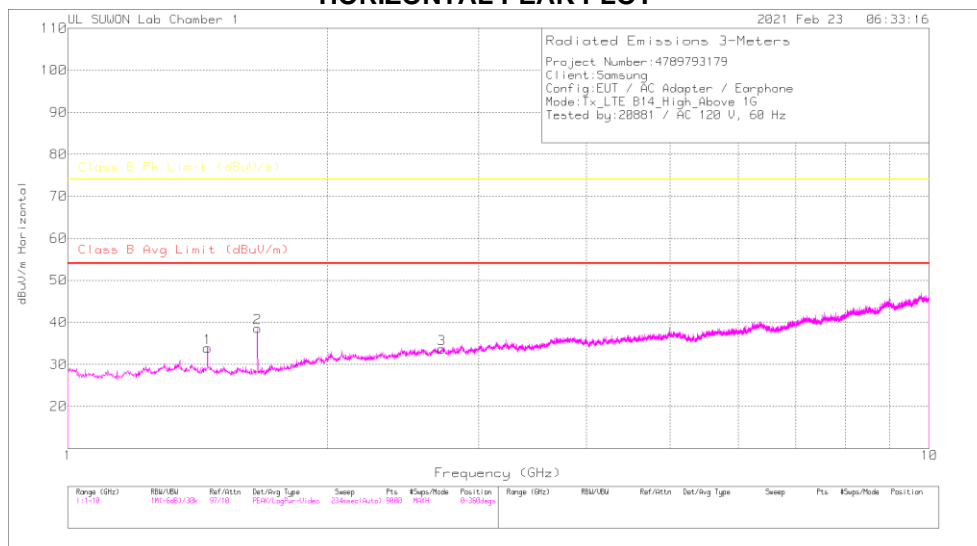
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	1-18GHz(dB)	1GHz_HPF	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	1.45205	40.7	PK	29.1	-36.8	7	33.7	-	-	74	-40.3	0-360	100	H
2	1.58406	40.92	PK	28.5	-36.6	7	33.52	-	-	74	-40.48	0-360	200	H
3	1.66007	45.3	PK	28.4	-36.6	5	37.6	-	-	74	-36.4	0-360	100	H
4	1.45305	38.26	PK	29.1	-36.9	7	31.16	-	-	74	-42.84	0-360	200	V
5	1.58506	38.15	PK	28.5	-36.6	8	30.85	-	-	74	-43.15	0-360	200	V
6	1.66007	42.05	PK	28.4	-36.6	5	34.35	-	-	74	-39.65	0-360	200	V

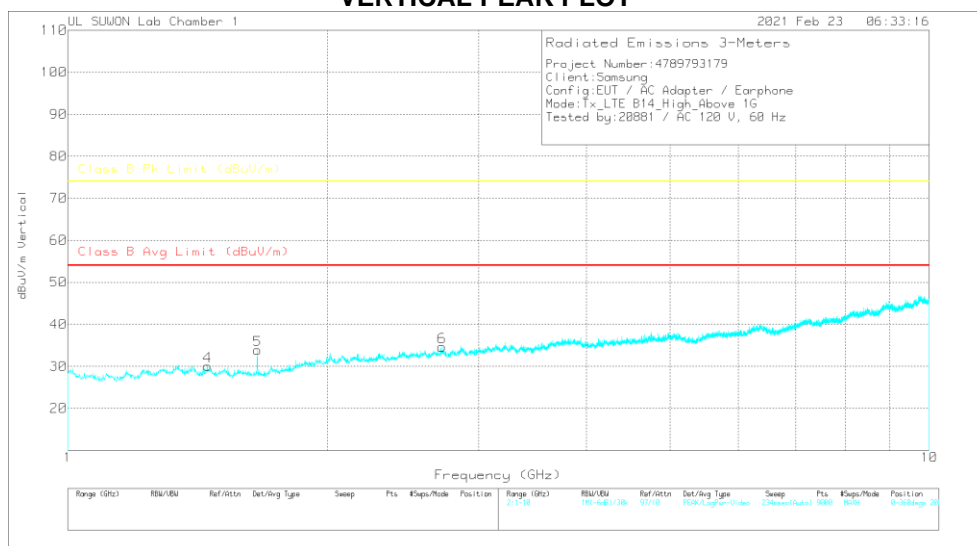
PK – Peak Detector

HIGH CHANNEL(765.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

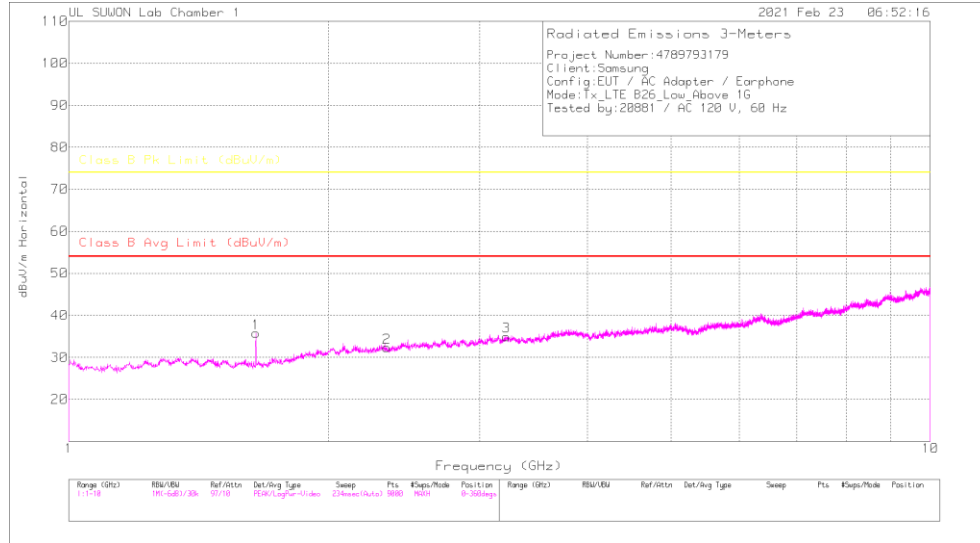
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	1-18GHz[dB]	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.45305	40.99	PK	29.1	-36.9	.7	33.89	-	-	74	-40.11	0-360	100	H
2	1.66007	46.34	PK	28.4	-36.6	.5	38.64	-	-	74	-35.36	0-360	100	H
3	2.71719	35.36	PK	32.1	-34.6	.8	33.66	-	-	74	-40.34	0-360	100	H
4	1.45305	37.14	PK	29.1	-36.9	.7	30.04	-	-	74	-43.96	0-360	200	V
5	1.66007	41.59	PK	28.4	-36.6	.5	33.89	-	-	74	-40.11	0-360	200	V
6	2.71919	36.34	PK	32.1	-34.6	.8	34.64	-	-	74	-39.36	0-360	100	V

PK – Peak Detector

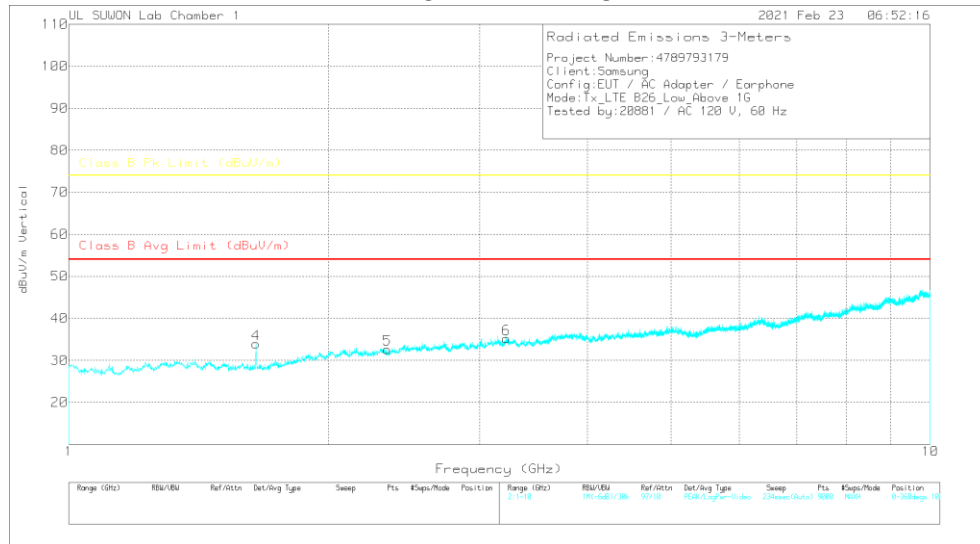
7.8. Above 1 GHz in the LTE Band 26

LOW CHANNEL(860.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

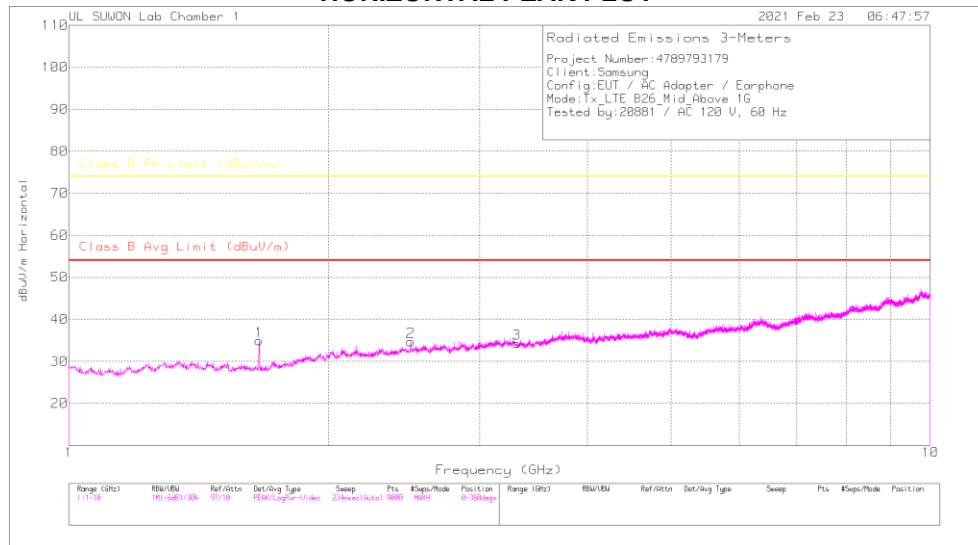
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	1-18GHz(dB)	1GHz_HPF	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	AvCISPRMargin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.64907	43.25	PK	28.4	-36.5	.6	35.75	-	-	74	-38.25	0-360	100	H
2	2.34015	35.34	PK	31.7	-35.3	.6	32.34	-	-	74	-41.66	0-360	200	H
3	3.21925	35.77	PK	32.7	-34.1	.6	34.97	-	-	74	-39.03	0-360	200	H
4	1.64907	41.42	PK	28.4	-36.5	.6	33.92	-	-	74	-40.08	0-360	200	V
5	2.34315	35.74	PK	31.7	-35.4	.6	32.64	-	-	74	-41.36	0-360	200	V
6	3.22225	35.73	PK	32.7	-33.9	.6	35.13	-	-	74	-38.87	0-360	200	V

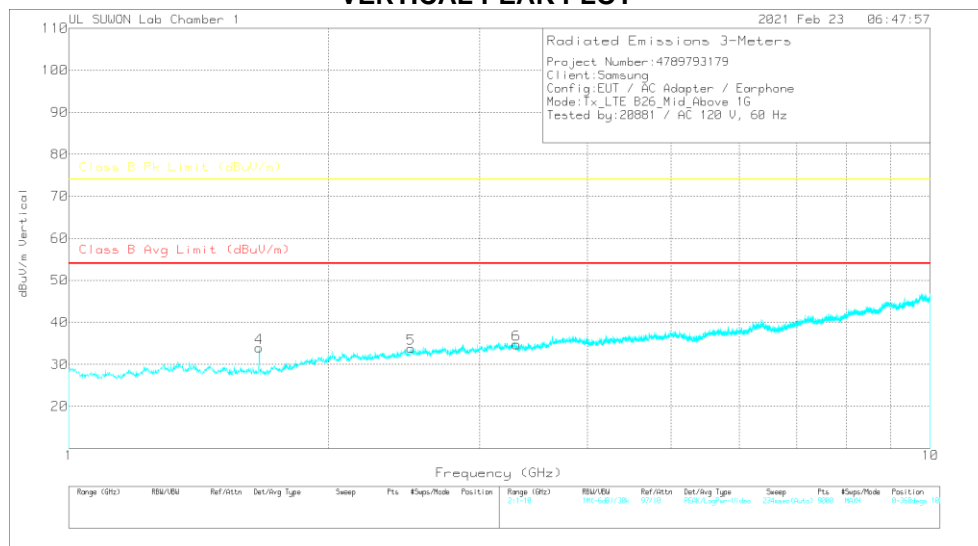
PK – Peak Detector

MID CHANNEL(876.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

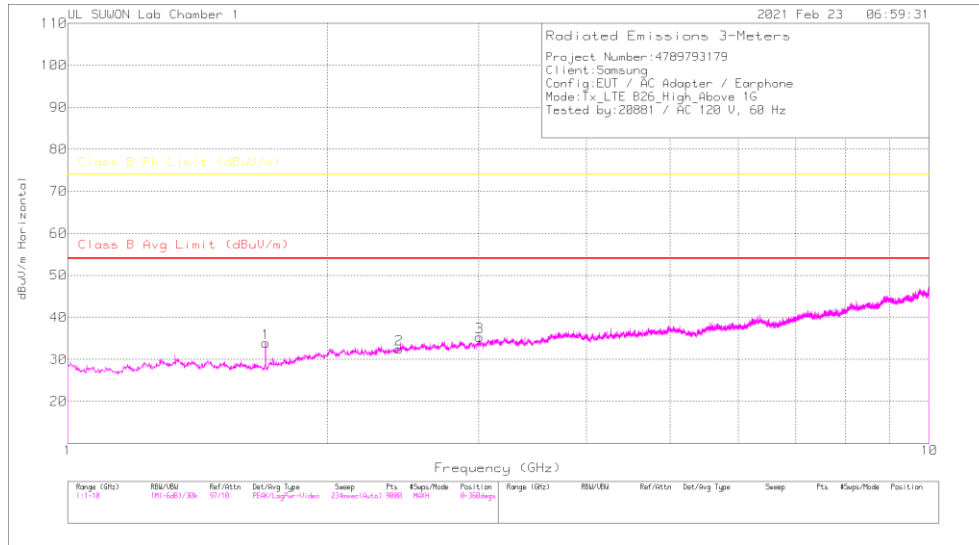
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	1-18GHz(dB)	1GHz_HPF	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	1.66307	42.5	PK	28.4	-36.5	5	34.9	-	-	74	-39.1	0-360	200	H
2	2.49417	36.99	PK	32	-34.9	6	34.69	-	-	74	-39.31	0-360	100	H
3	3.31026	35.19	PK	32.6	-34.1	6	34.29	-	-	74	-39.71	0-360	200	H
4	1.66307	41.56	PK	28.4	-36.5	5	33.96	-	-	74	-40.04	0-360	200	V
5	2.49517	36	PK	32	-34.8	6	33.8	-	-	74	-40.2	0-360	100	V
6	3.30826	35.55	PK	32.6	-34	6	34.75	-	-	74	-39.25	0-360	100	V

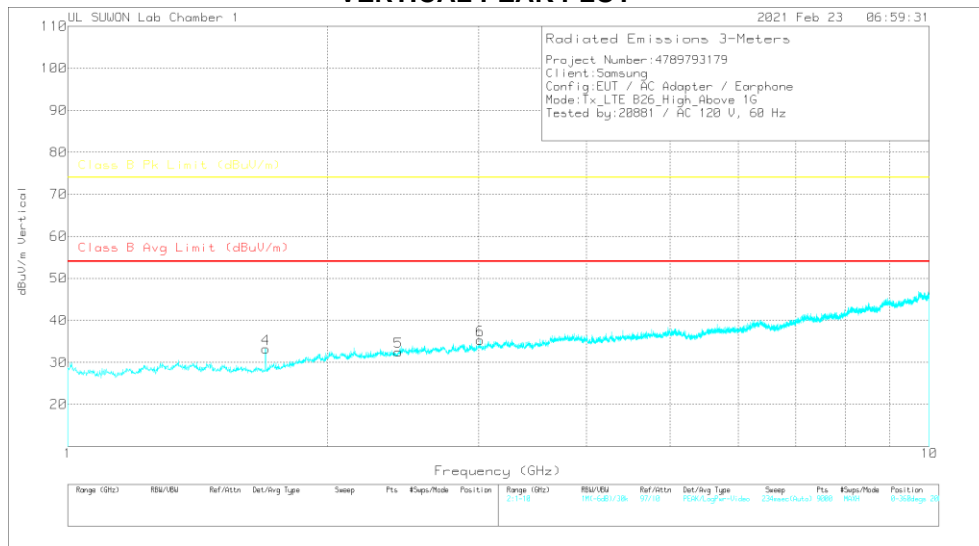
PK – Peak Detector

HIGH CHANNEL(892.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

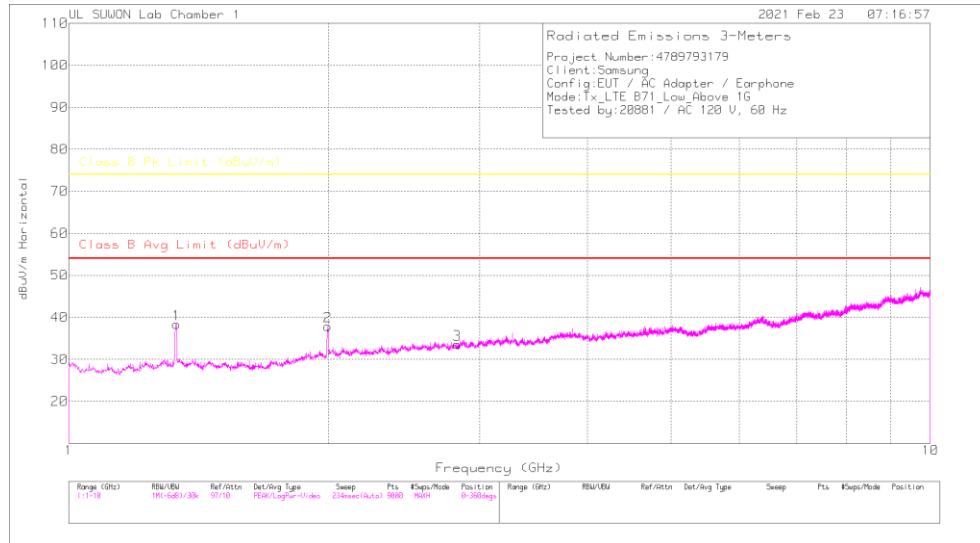
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	1-18GHz[dB]	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.69708	41.3	PK	28.6	-36.6	.6	33.9	-	-	74	-40.1	0-360	100	H
2	2.42516	34.97	PK	31.9	-35.1	.7	32.47	-	-	74	-41.53	0-360	200	H
3	3.00522	36.51	PK	32.4	-34.3	.7	35.31	-	-	74	-38.69	0-360	100	H
4	1.69708	40.64	PK	28.6	-36.6	.6	33.24	-	-	74	-40.76	0-360	200	V
5	2.42016	35.03	PK	31.9	-35.1	.7	32.53	-	-	74	-41.47	0-360	100	V
6	3.01122	36.51	PK	32.4	-34.3	.7	35.31	-	-	74	-38.69	0-360	100	V

PK – Peak Detector

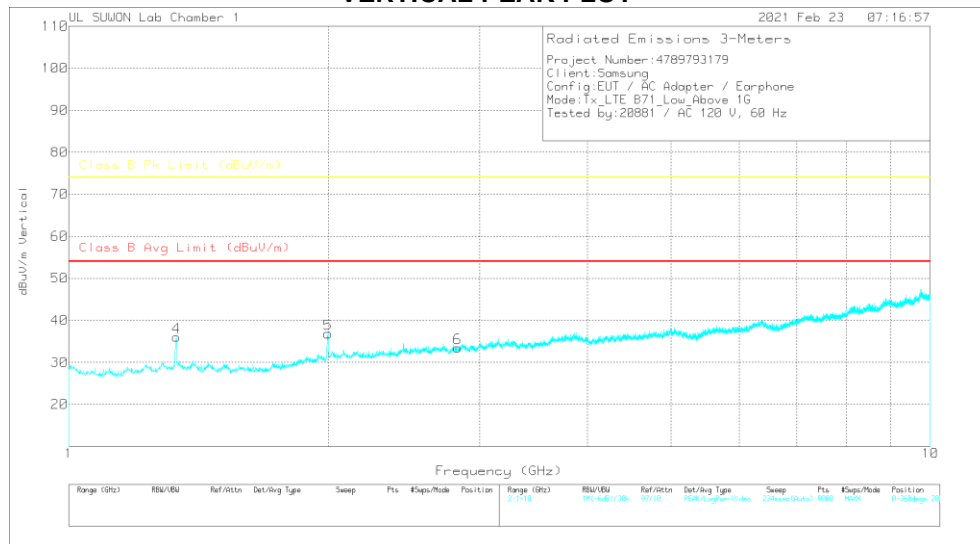
7.9. Above 1 GHz in the LTE Band 71

LOW CHANNEL(619.5MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

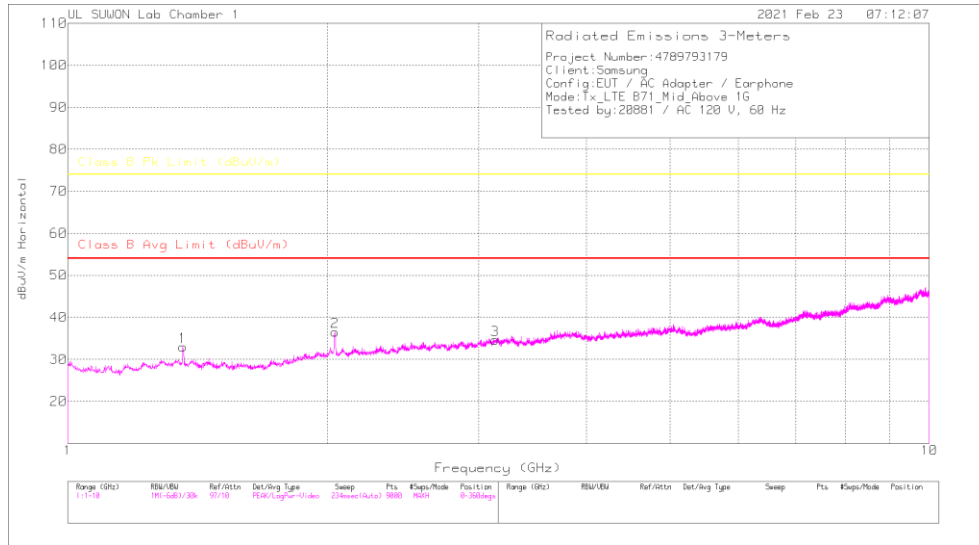
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	1-18GHz(dB)	1GHz_HPF	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	AvCISPR(Margin (dB))	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.33304	45.5	PK	29.5	-37.3	.7	38.4	-	-	74	-35.6	0-360	200	H
2	1.99811	41.71	PK	31.4	-35.7	.5	37.91	-	-	74	-36.09	0-360	100	H
3	2.8242	34.98	PK	32.2	-34.3	.7	33.58	-	-	74	-40.42	0-360	200	H
4	1.33304	43.14	PK	29.5	-37.3	.7	36.04	-	-	74	-37.96	0-360	100	V
5	2.00011	40.53	PK	31.4	-35.7	.6	36.83	-	-	74	-37.17	0-360	100	V
6	2.8262	34.86	PK	32.3	-34.5	.8	33.46	-	-	74	-40.54	0-360	200	V

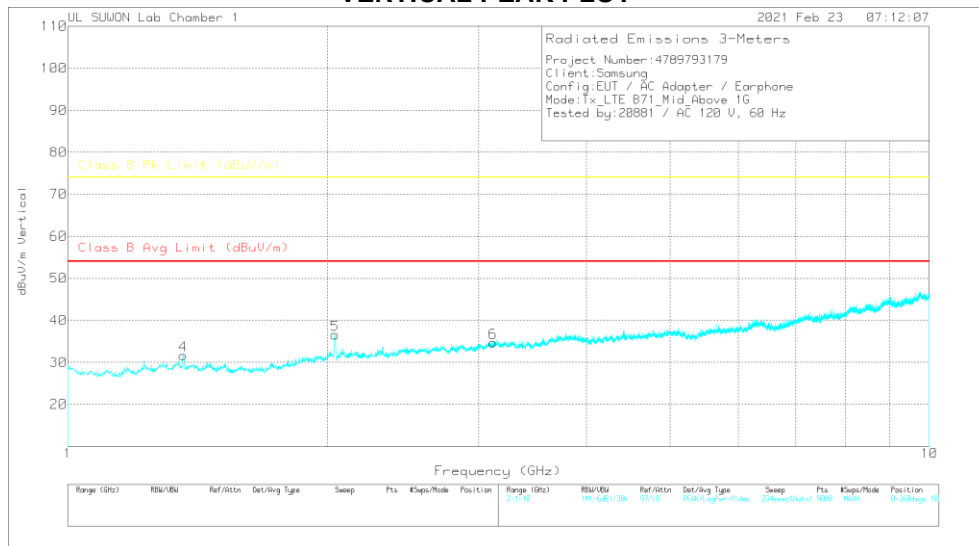
PK – Peak Detector

MID CHANNEL(634.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

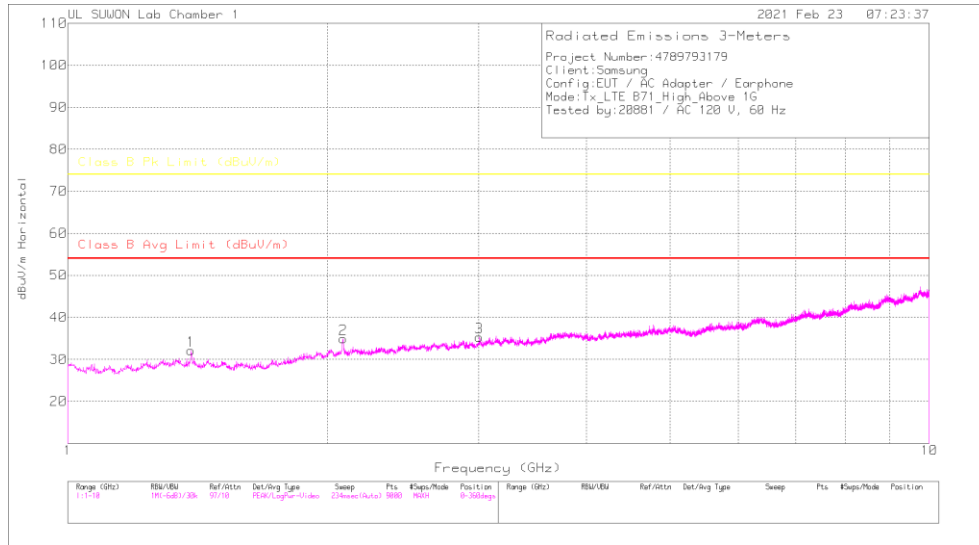
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	1-18GHz(dB)	1GHz_HPF	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	1.36004	39.88	PK	29.5	-37.1	7	32.98	-	-	74	-41.02	0-360	100	H
2	2.04312	40.36	PK	31.5	-35.9	6	36.56	-	-	74	-37.44	0-360	100	H
3	3.13324	35.32	PK	32.6	-34	7	34.62	-	-	74	-39.38	0-360	200	H
4	1.36104	38.58	PK	29.5	-37.1	7	31.68	-	-	74	-42.32	0-360	100	V
5	2.04212	40.38	PK	31.5	-35.9	6	36.58	-	-	74	-37.42	0-360	100	V
6	3.11623	35.42	PK	32.6	-34	7	34.72	-	-	74	-39.28	0-360	200	V

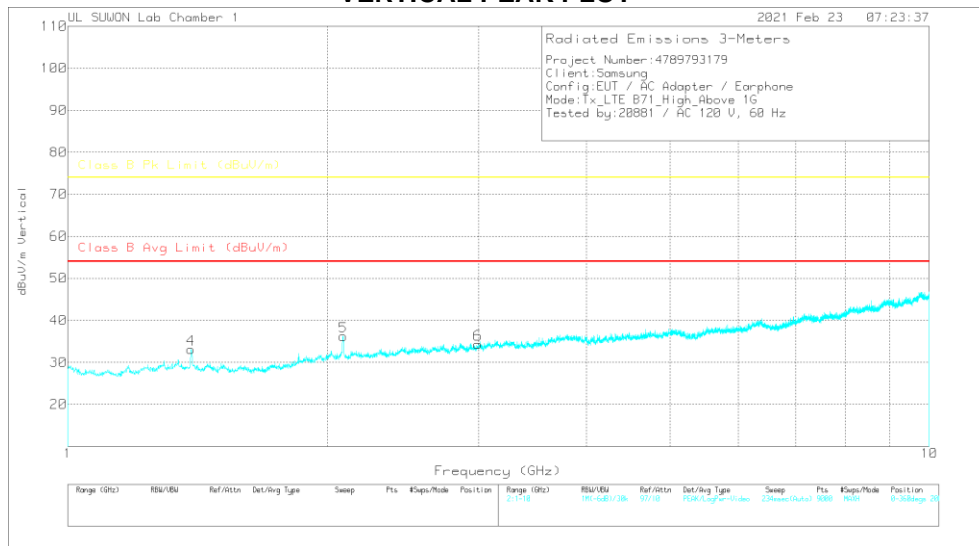
PK – Peak Detector

HIGH CHANNEL(649.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

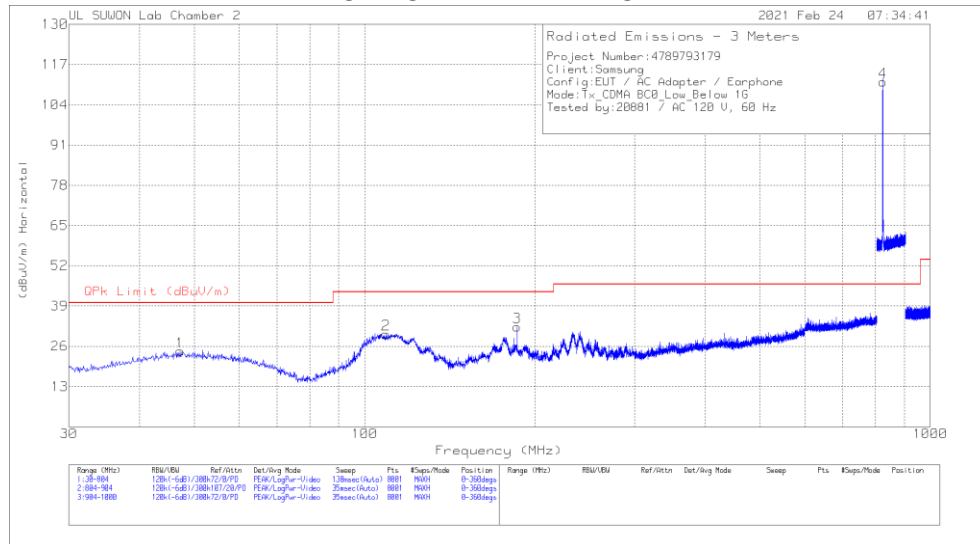
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	1-18GHz[dB]	1GHz_HPF	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.39004	39.23	PK	29.4	-37.1	.6	32.13	-	-	74	-41.87	0-360	100	H
2	2.08712	38.53	PK	31.6	-35.7	.5	34.93	-	-	74	-39.07	0-360	100	H
3	3.00222	36.5	PK	32.4	-34.3	.7	35.3	-	-	74	-38.7	0-360	200	H
4	1.39004	40.22	PK	29.4	-37.1	.6	33.12	-	-	74	-40.88	0-360	100	V
5	2.08712	39.81	PK	31.6	-35.7	.5	36.21	-	-	74	-37.79	0-360	100	V
6	2.99322	35.44	PK	32.4	-34.2	.7	34.34	-	-	74	-39.66	0-360	100	V

PK – Peak Detector

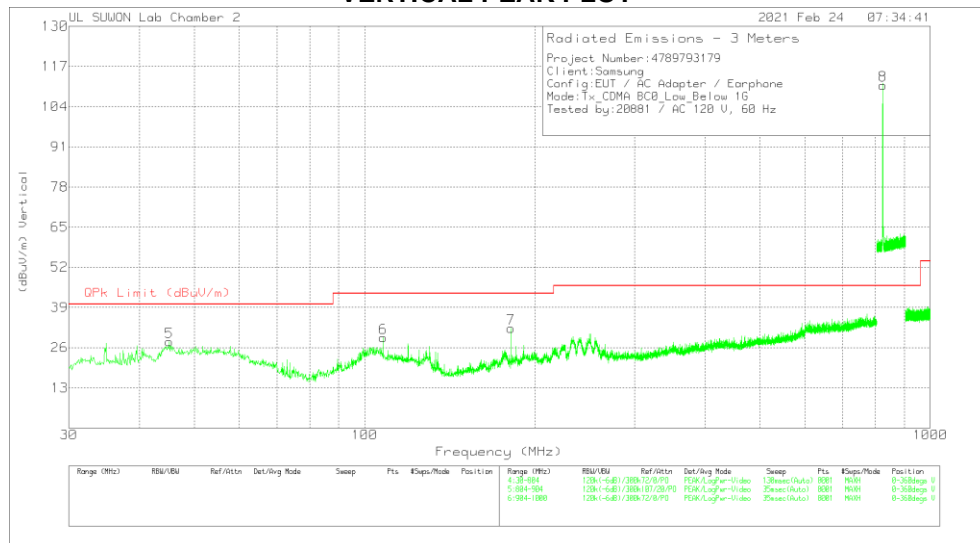
7.10. Below 1 GHz in the CDMA BC0

LOW CHANNEL(860 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

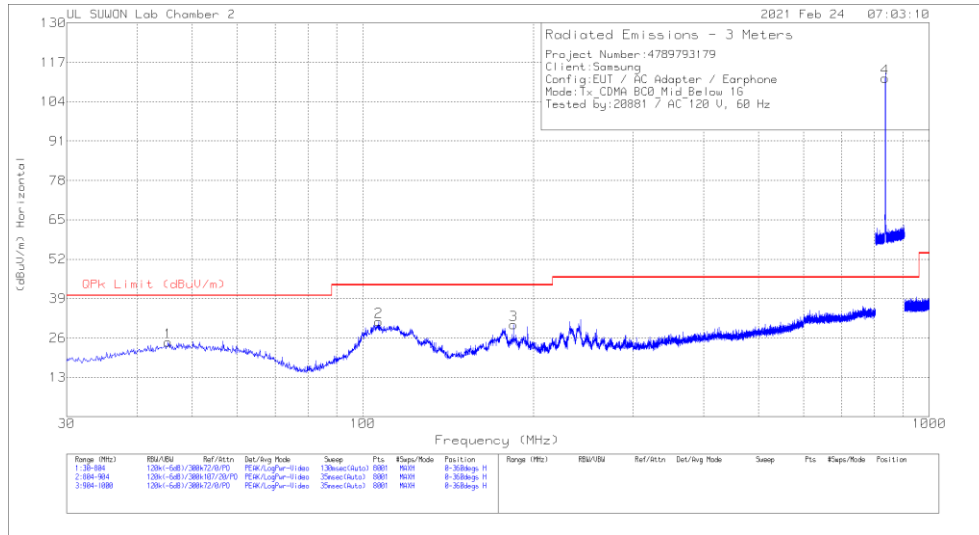
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	47.2215	3.79	Pk	19.8	.8	24.39	40	-15.61	0-360	200	H
2	109.1415	11.42	Pk	17.2	1.3	29.92	43.52	-13.6	0-360	300	H
3	186.0578	14.88	Pk	15.9	1.5	32.28	43.52	-11.24	0-360	100	H
4	824.825	81.39	Pk	26.7	3.3	111.39	46.02	65.37	0-360	100	H
5	45.1898	7.5	Pk	19.6	.8	27.9	40	-12.1	0-360	100	V
6	107.8838	10.71	Pk	17.3	1.2	29.21	43.52	-14.31	0-360	100	V
7	181.4138	15.36	Pk	15.4	1.5	32.26	43.52	-11.26	0-360	100	V
8	824.725	81.03	Pk	26.7	3.2	110.93	46.02	64.91	0-360	200	V

Pk - Peak detector

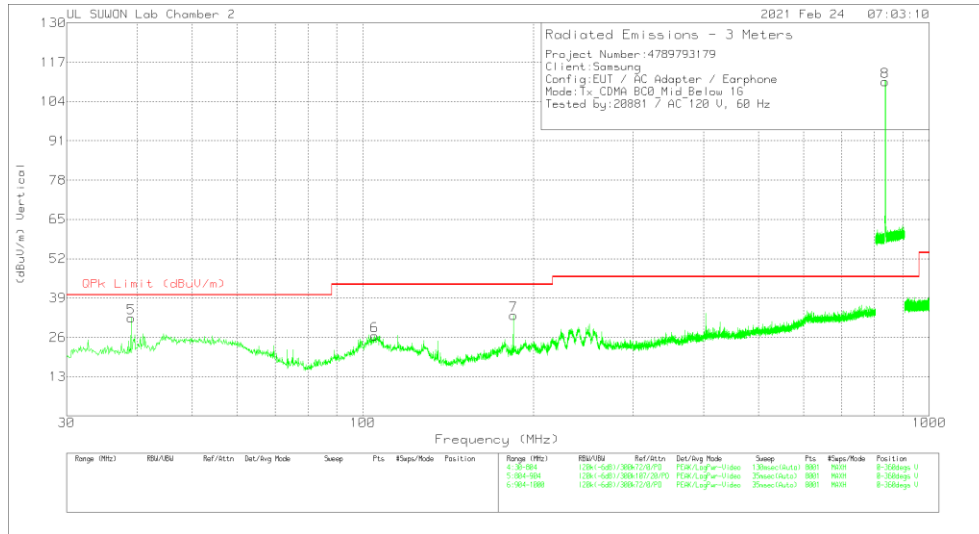
Note: Unwanted emissions captured from 815MHz to 849MHz and from 860MHz to 894MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(877 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

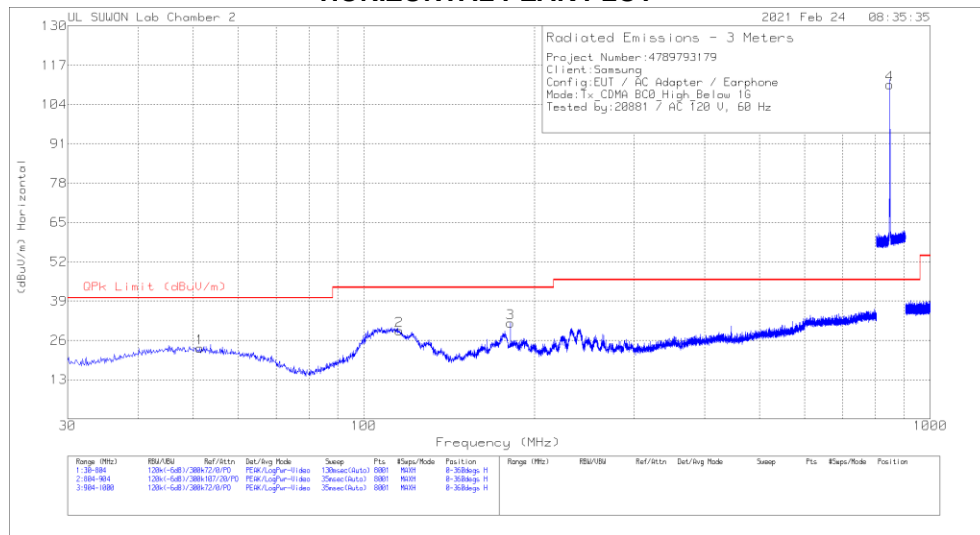
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	45.2865	4.26	Pk	19.6	.8	24.66	40	-15.34	0-360	200	H
2	106.626	12.85	Pk	17.4	1.1	31.35	43.52	-12.17	0-360	300	H
3	184.5098	13	Pk	15.8	1.6	30.4	43.52	-13.12	0-360	200	H
4	836.425	81.54	Pk	26.9	3.3	111.74	46.02	65.72	0-360	100	H
5	38.9978	13.48	Pk	18.3	.6	32.38	40	-7.62	0-360	100	V
6	104.9813	7.84	Pk	17.6	1.1	26.54	43.52	-16.98	0-360	100	V
7	184.413	15.92	Pk	15.7	1.6	33.22	43.52	-10.3	0-360	200	V
8	836.4875	80.42	Pk	26.9	3.3	110.62	46.02	64.6	0-360	200	V

Pk - Peak detector

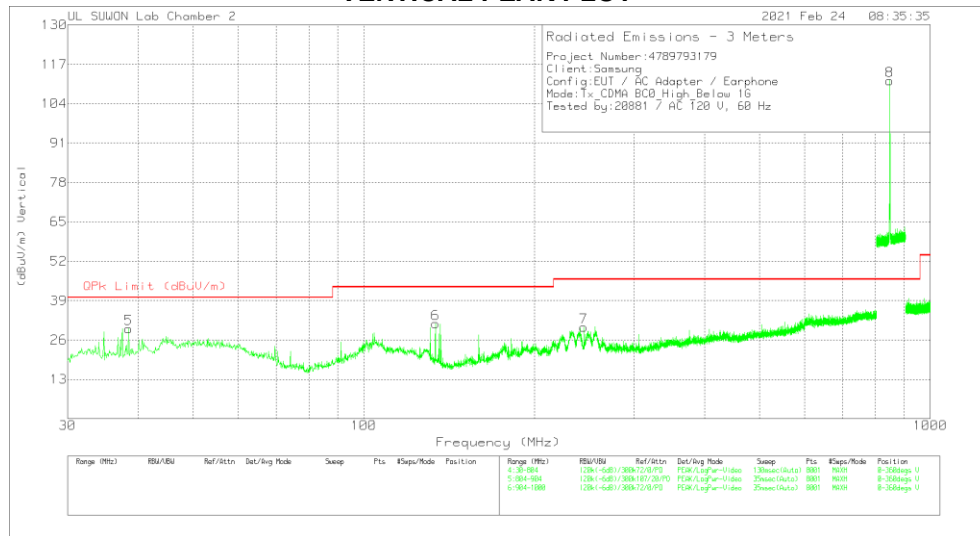
Note: Unwanted emissions captured from 815MHz to 849MHz and from 860MHz to 894MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(894 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	51.3818	2.8	Pk	19.8	.8	23.4	40	-16.6	0-360	100	H
2	115.4303	11.99	Pk	16.1	1.2	29.29	43.52	-14.23	0-360	300	H
3	181.5105	14.79	Pk	15.5	1.5	31.79	43.52	-11.73	0-360	100	H
4	848.3125	79.94	Pk	27.3	3.3	110.54	46.02	64.52	0-360	100	H
5	38.4173	10.96	Pk	18.1	.7	29.76	40	-10.24	0-360	100	V
6	133.8128	16.31	Pk	13.9	1.2	31.41	43.52	-12.11	0-360	100	V
7	244.5915	10.16	Pk	18.4	1.7	30.26	46.02	-15.76	0-360	100	V
8	848.2875	81.05	Pk	27.3	3.3	111.65	46.02	65.63	0-360	200	V

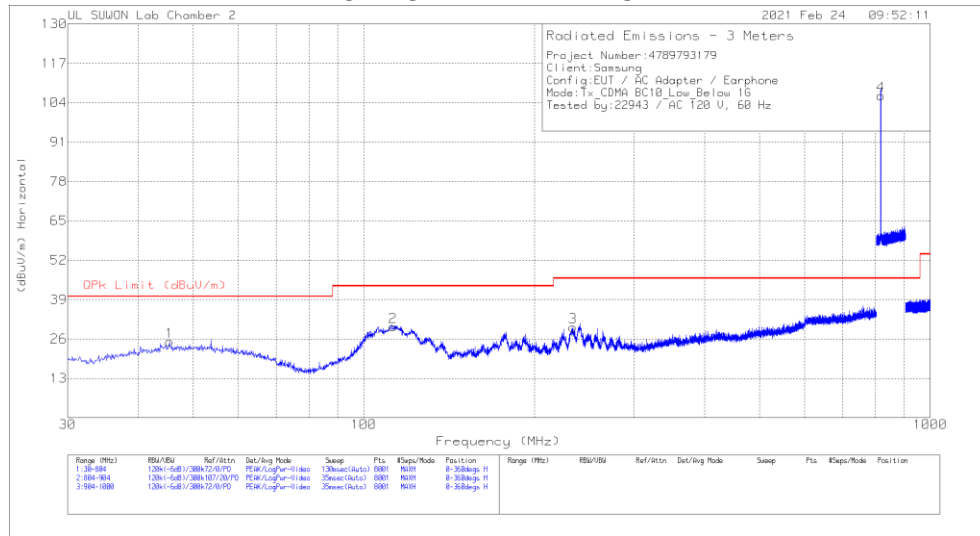
Pk - Peak detector

Note: Unwanted emissions captured from 815MHz to 849MHz and from 860MHz to 894MHz were the TX and RX signals generated from the call-simulator.

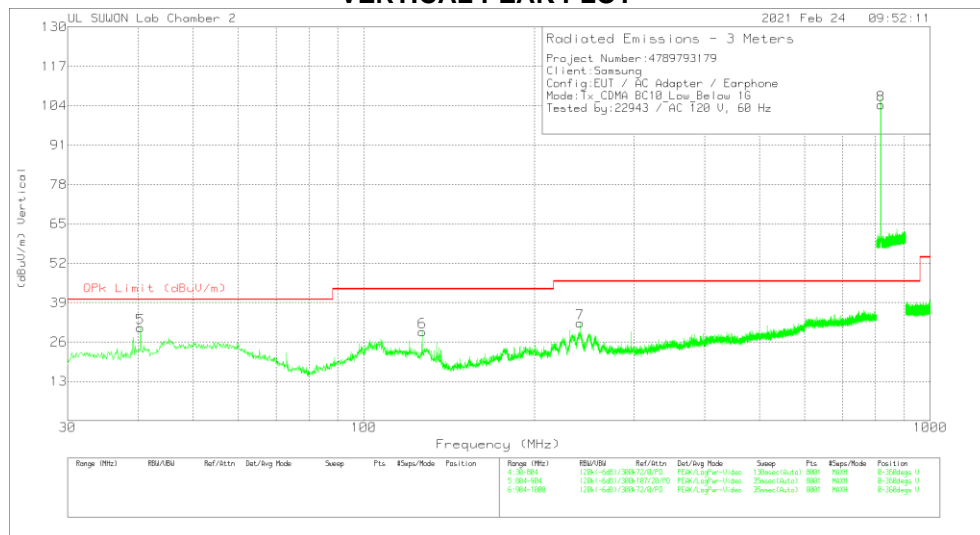
7.11. Below 1 GHz in the CDMA BC10

LOW CHANNEL(851 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

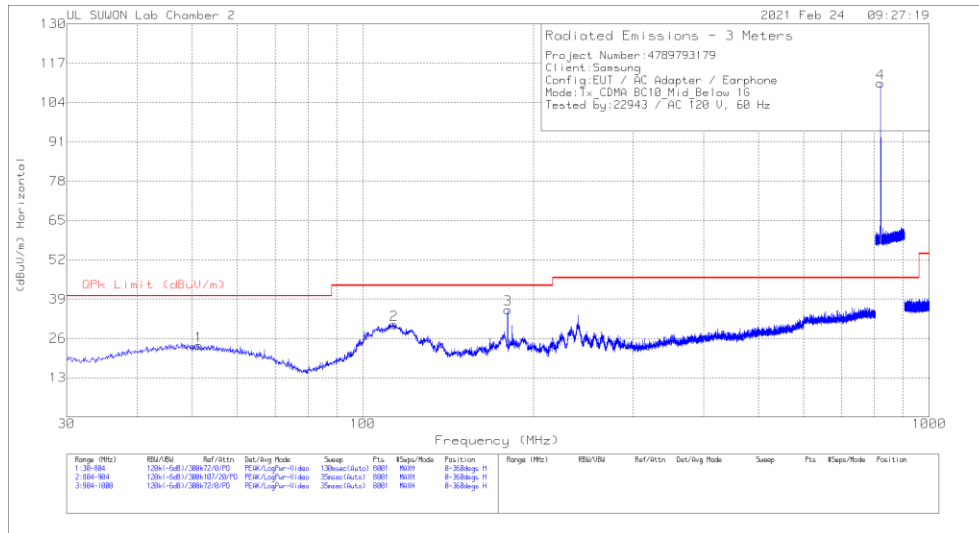
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	45.3833	4.77	Pk	19.6	.7	25.07	40	-14.93	0-360	300	H
2	112.6245	12.7	Pk	16.3	1.1	30.1	43.52	-13.42	0-360	300	H
3	234.0458	10.47	Pk	17.8	1.7	29.97	46.02	-16.05	0-360	100	H
4	818	76.36	Pk	26.8	3.2	106.36	46.02	60.34	0-360	100	H
5	40.3523	11.25	Pk	18.7	.8	30.75	40	-9.25	0-360	100	V
6	126.75	13.75	Pk	14.5	1.1	29.35	43.52	-14.17	0-360	100	V
7	241.0118	12.43	Pk	18.2	1.7	32.33	46.02	-13.69	0-360	200	V
8	817.975	74.35	Pk	26.8	3.2	104.35	46.02	58.33	0-360	100	V

Pk - Peak detector

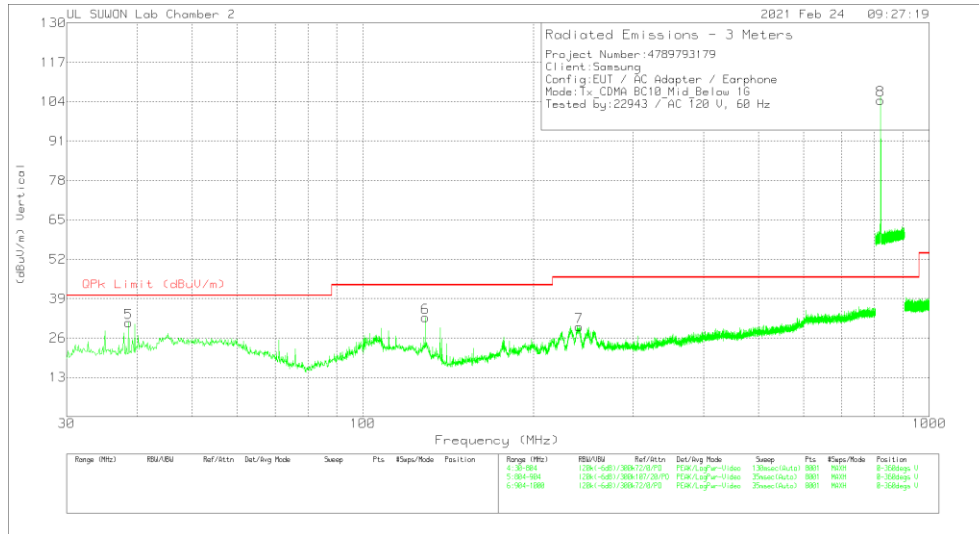
Note: Unwanted emissions captured from 806MHz to 901MHz and from 851MHz to 940MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(895.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

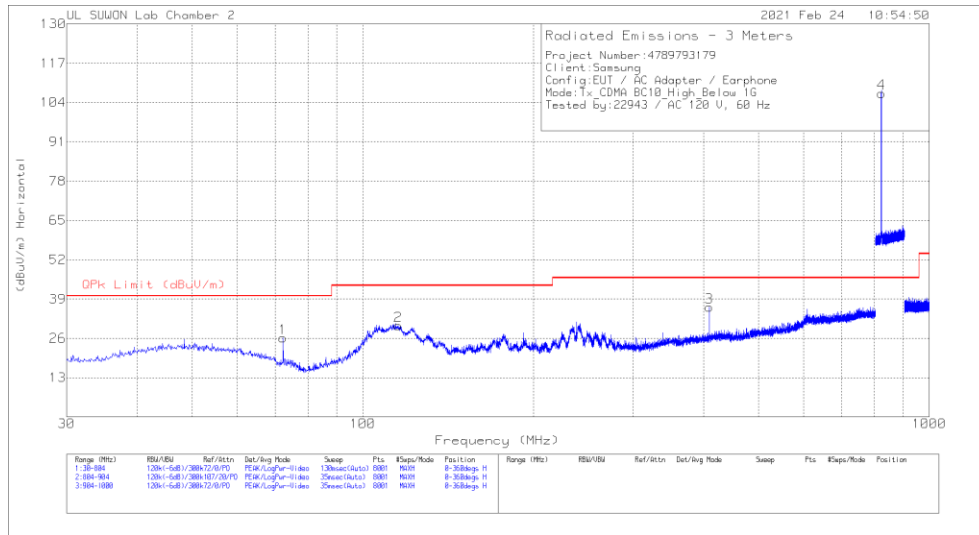
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	51.3818	2.99	Pk	19.8	.8	23.59	40	-16.41	0-360	200	H
2	113.4953	13.07	Pk	16.3	1.2	30.57	43.52	-12.95	0-360	300	H
3	180.2528	18.67	Pk	15.3	1.6	35.57	43.52	-7.95	0-360	200	H
4	820.825	80.34	Pk	26.8	3.2	110.34	46.02	64.32	0-360	100	H
5	38.6108	12.21	Pk	18.1	.8	31.11	40	-8.89	0-360	200	V
6	128.9753	17.14	Pk	14.3	1.3	32.74	43.52	-10.78	0-360	100	V
7	240.915	9.77	Pk	18.2	1.8	29.77	46.02	-16.25	0-360	100	V
8	820.5125	74.54	Pk	26.8	3.2	104.54	46.02	58.52	0-360	200	V

Pk - Peak detector

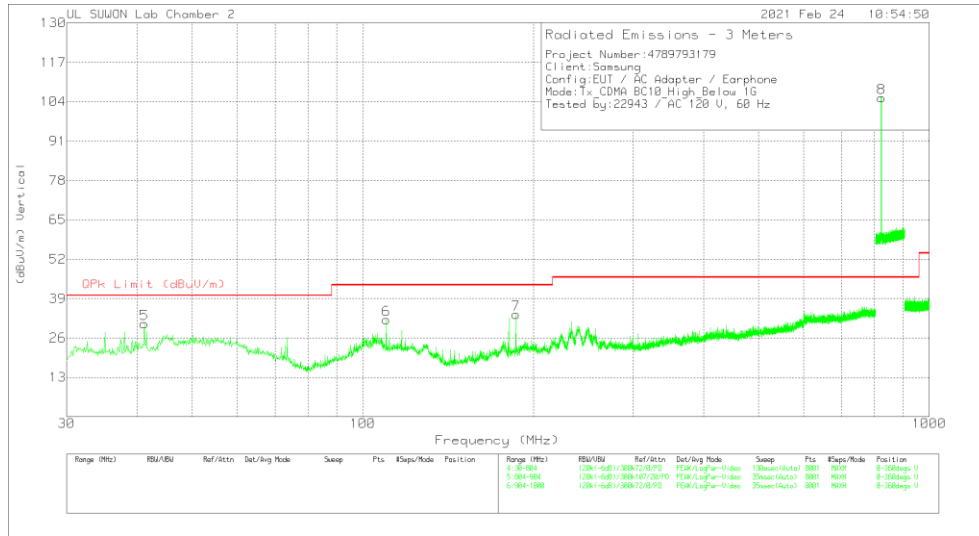
Note: Unwanted emissions captured from 806MHz to 901MHz and from 851MHz to 940MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(940 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	72.2798	10.69	Pk	14.4	1	26.09	40	-13.91	0-360	300	H
2	115.4303	12.95	Pk	16.1	1.2	30.25	43.52	-13.27	0-360	300	H
3	408.9698	12.4	Pk	21.7	2.3	36.4	46.02	-9.62	0-360	100	H
4	823.1125	77.18	PK	26.7	3.2	107.08	46.02	61.06	0-360	100	H
5	41.1263	11.19	Pk	18.9	.7	30.79	40	-9.21	0-360	100	V
6	110.0123	14.05	Pk	16.9	1.2	32.15	43.52	-11.37	0-360	100	V
7	186.348	16.23	Pk	16	1.5	33.73	43.52	-9.79	0-360	100	V
8	823.075	75.36	Pk	26.7	3.2	105.26	46.02	59.24	0-360	200	V

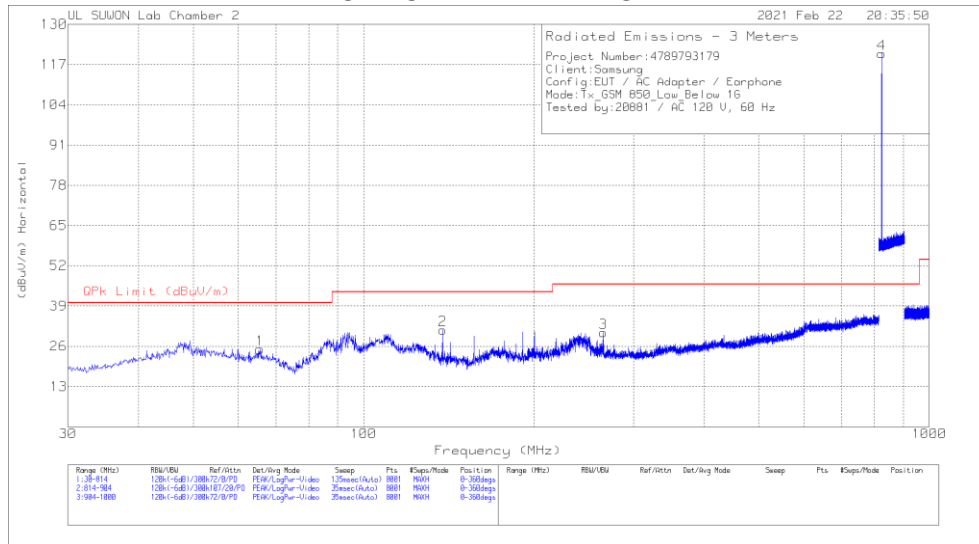
Pk - Peak detector

Note: Unwanted emissions captured from 806MHz to 901MHz and from 851MHz to 940MHz were the TX and RX signals generated from the call-simulator.

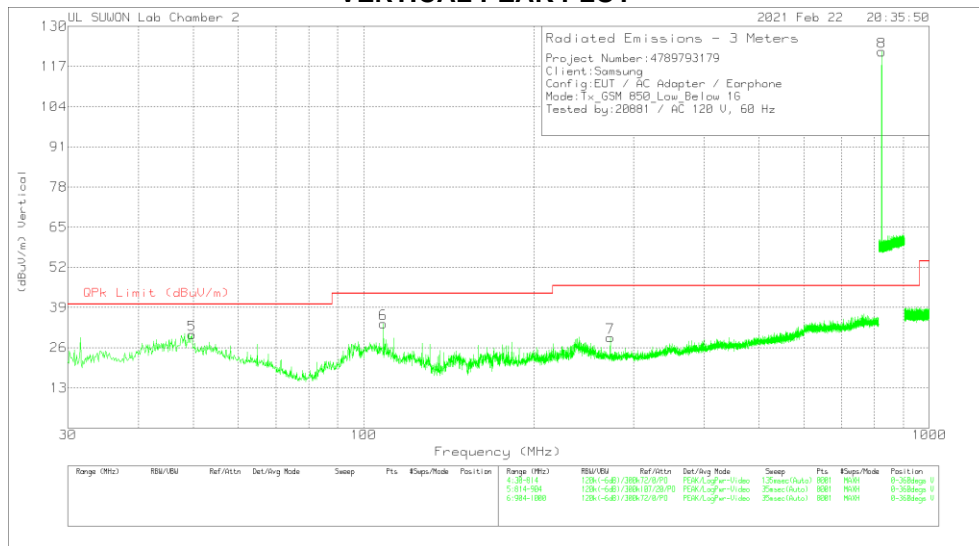
7.12. Below 1 GHz in the GSM850

LOW CHANNEL(869.2 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

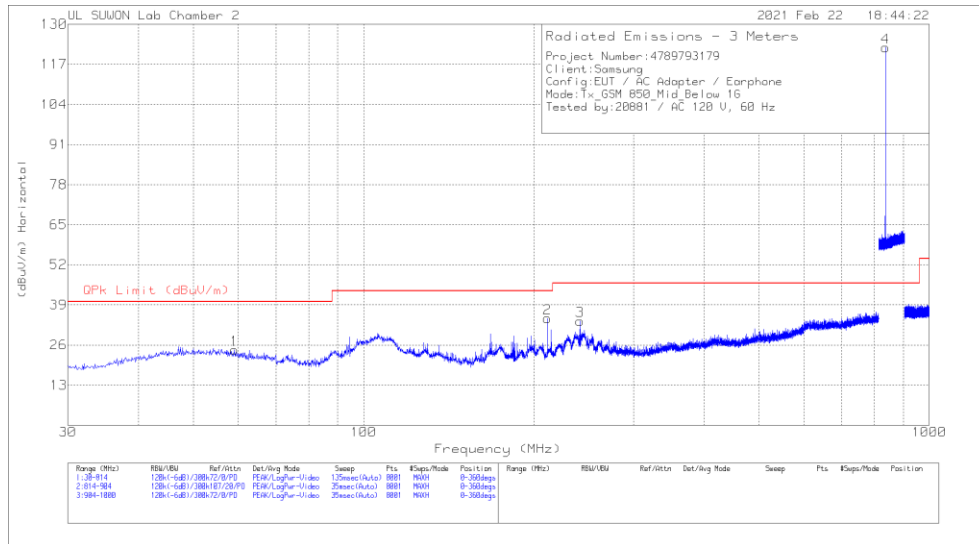
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	65.574	7.43	Pk		.7	25.03	40	-14.97	0-360	300	H
2	137.996	16.15	Pk		1.3	31.25	43.52	-12.27	0-360	300	H
3	265.592	9.98	Pk		1.9	30.38	46.02	-15.64	0-360	100	H
4	824.2488	90.59	Pk		3.2	120.49	46.02	74.47	0-360	100	H
5	49.698	9.61	Pk		.7	30.21	40	-9.79	0-360	100	V
6	108.4	15.06	Pk		1.4	33.76	43.52	-9.76	0-360	300	V
7	273.04	8.79	Pk		1.9	29.29	46.02	-16.73	0-360	200	V
8	824.125	91.79	Pk		3.3	121.79	46.02	75.77	0-360	200	V

Pk - Peak detector

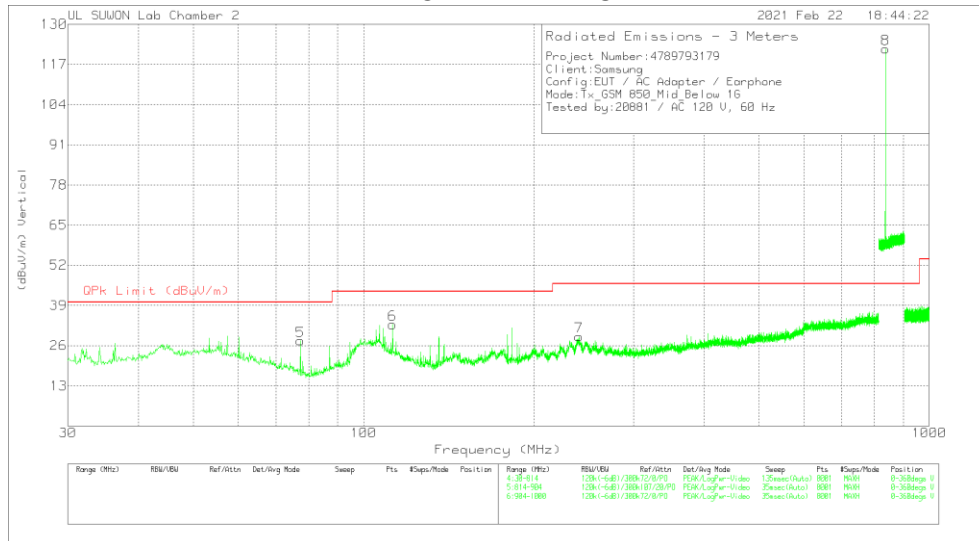
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(881.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

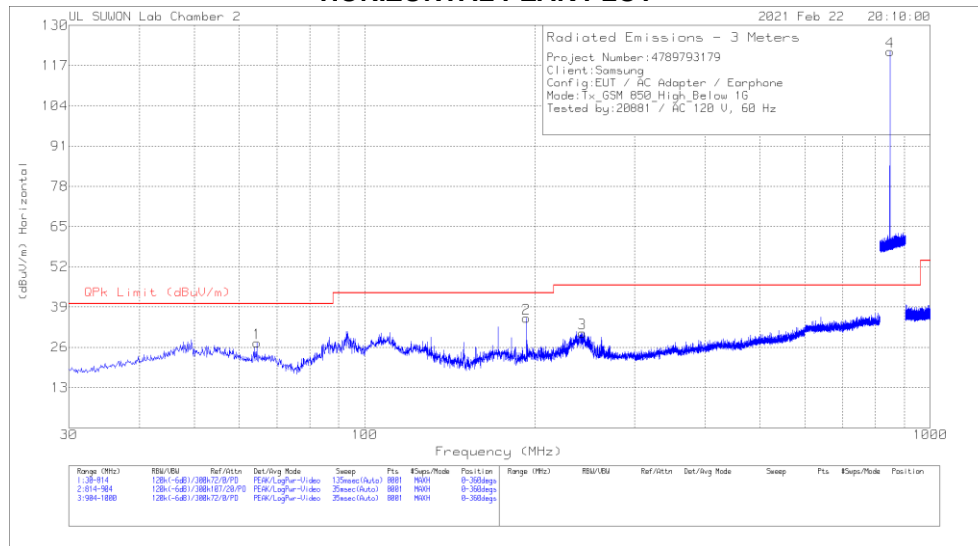
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	59.106	4.77	Pk	18.7	1	24.47	40	-15.53	0-360	300	H
2	211.3	16.35	Pk	16.7	1.6	34.65	43.52	-8.87	0-360	100	H
3	241.386	13.7	Pk	18.3	1.8	33.8	46.02	-12.22	0-360	100	H
4	836.5338	92.24	Pk	26.9	3.3	122.44	46.02	76.42	0-360	200	H
5	77.334	13.85	Pk	12.6	1.1	27.55	40	-12.45	0-360	300	V
6	112.516	15.33	Pk	16.3	1.2	32.83	43.52	-10.69	0-360	100	V
7	240.406	8.99	Pk	18.2	1.8	28.99	46.02	-17.03	0-360	200	V
8	836.6463	91.96	Pk	26.9	3.2	122.06	46.02	76.04	0-360	200	V

Pk - Peak detector

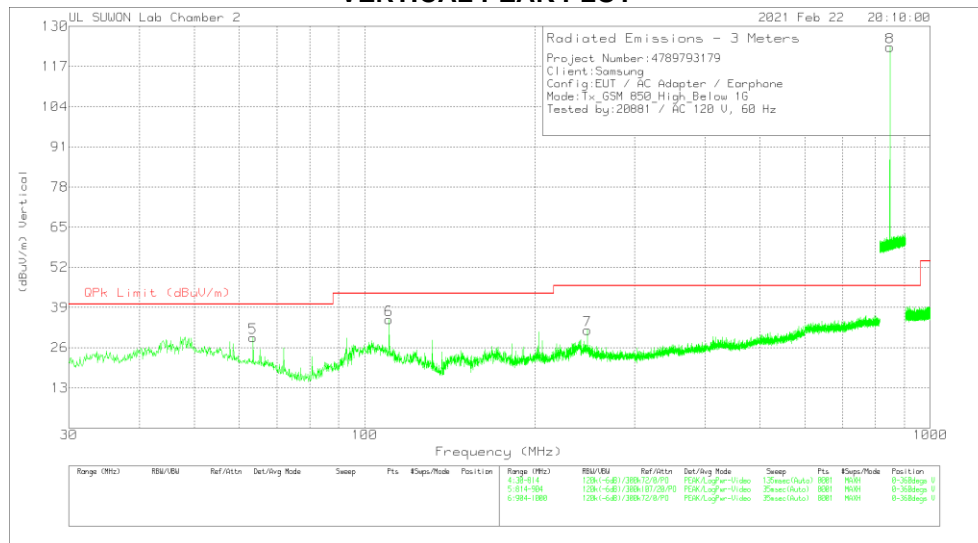
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(893.8 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	64.496	9.25	Pk	17.2	1	27.45	40	-12.55	0-360	400	H
2	193.366	17.04	Pk	17	1.4	35.44	43.52	-8.08	0-360	100	H
3	242.66	10.48	Pk	18.3	1.8	30.58	46.02	-15.44	0-360	100	H
4	848.875	90.96	Pk	27.3	3.3	121.56	46.02	75.54	0-360	200	H
5	63.516	10.98	Pk	17.5	.8	29.28	40	-10.72	0-360	100	V
6	110.458	17.07	Pk	16.8	1.2	35.07	43.52	-8.45	0-360	100	V
7	247.756	11.48	Pk	18.4	1.8	31.68	46.02	-14.34	0-360	200	V
8	848.7513	92.67	Pk	27.3	3.3	123.27	46.02	77.25	0-360	200	V

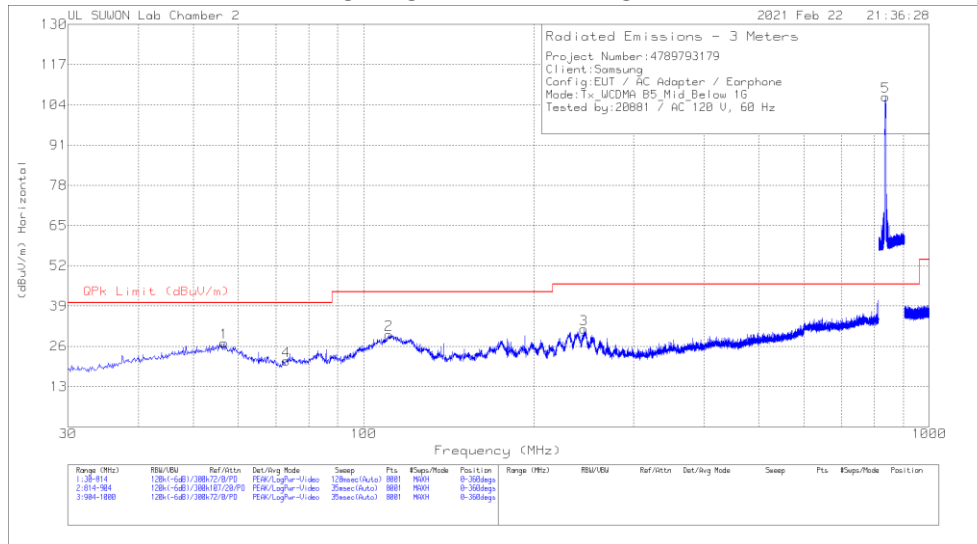
Pk - Peak detector

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

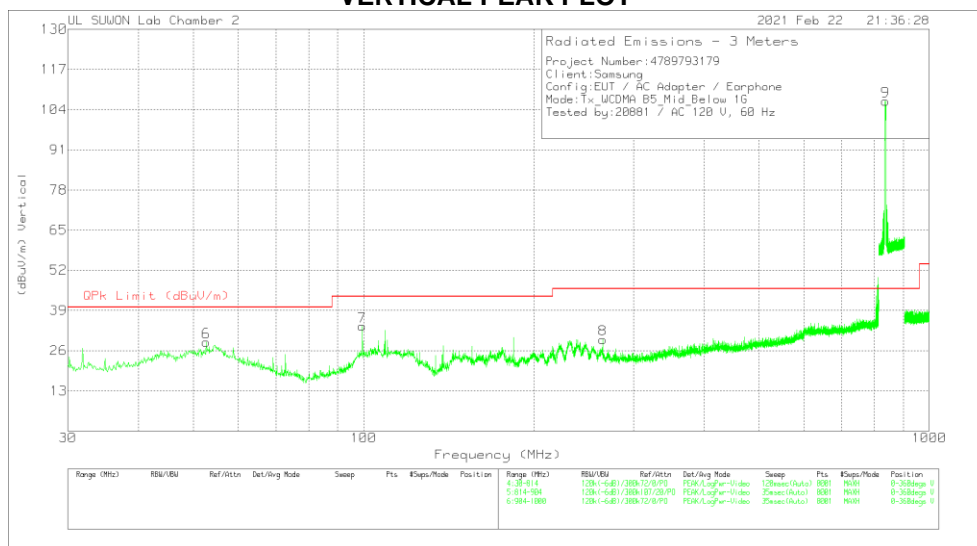
7.13. Below 1 GHz in the WCDMA Band 5

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	56.656	7.26	Pk	19.1	.8	27.16	40	-12.84	0-360	400	H
2	110.85	11.88	Pk	16.7	1.2	29.78	43.52	-13.74	0-360	200	H
3	245.012	11.45	Pk	18.4	1.7	31.55	46.02	-14.47	0-360	100	H
4	73.022	6.33	Pk	14	.9	21.23	40	-18.77	0-360	300	H
5	836.8713	76.42	Pk	26.9	3.3	106.62	46.02	60.6	0-360	300	H
6	52.736	8.46	Pk	19.6	.7	28.76	40	-11.24	0-360	100	V
7	99.482	15.49	Pk	17.3	1.1	33.89	43.52	-9.63	0-360	100	V
8	264.808	9.36	Pk	18.5	1.8	29.66	46.02	-16.36	0-360	300	V
9	837.22	76.67	Pk	26.9	3.2	106.77	46.02	60.75	0-360	200	V

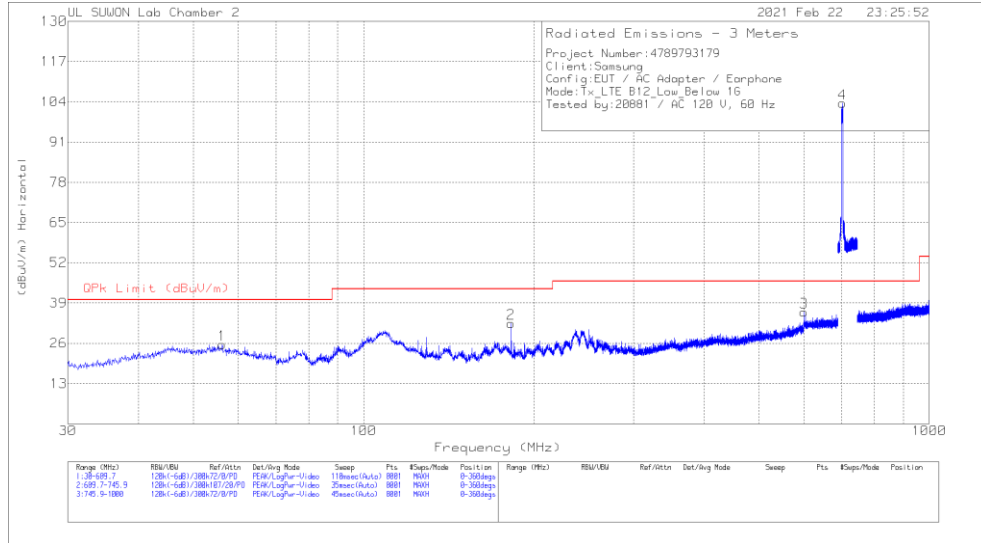
Pk - Peak detector

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

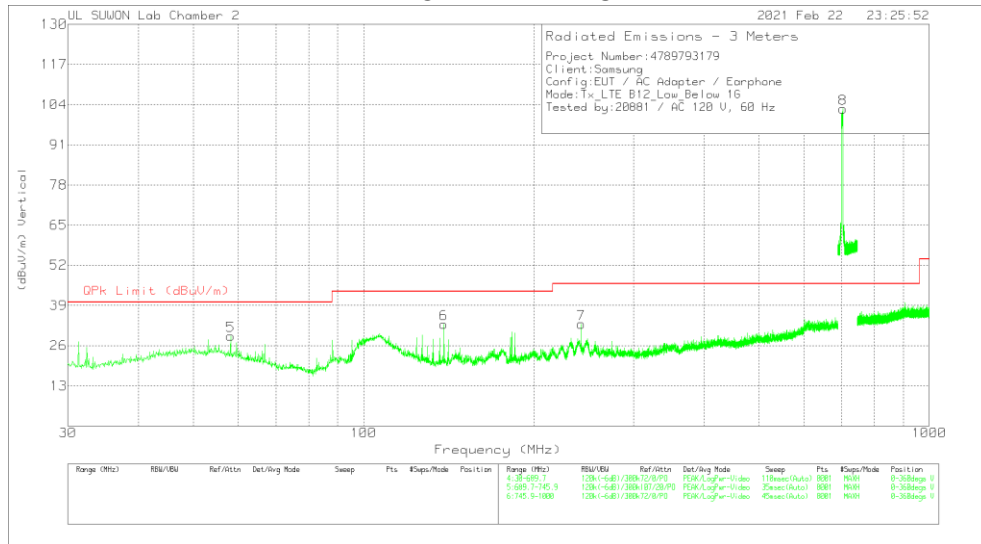
7.14. Below 1 GHz in the LTE Band 12

LOW CHANNEL(731.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

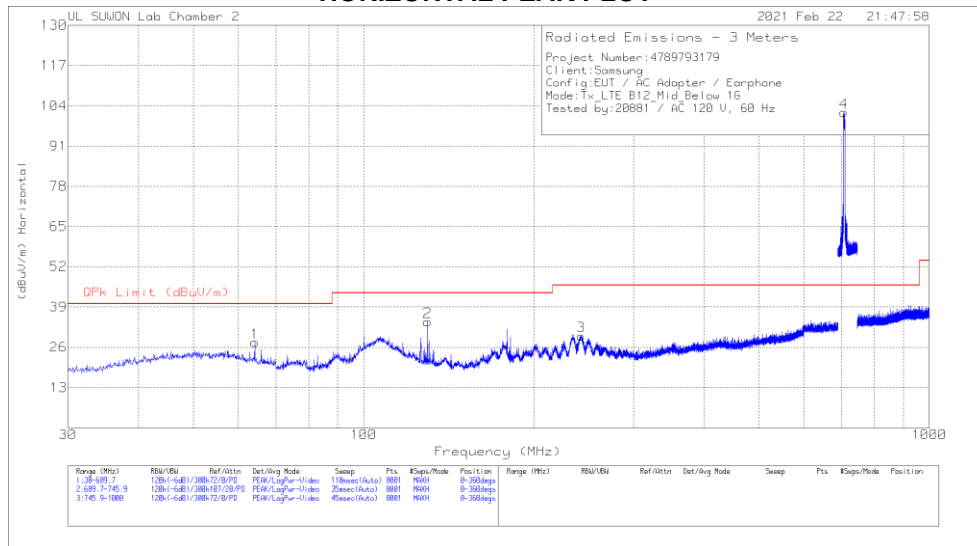
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	56.2232	5.53	Pk	19.2	.9	25.63	40	-14.37	0-360	400	H
2	182.2267	15.44	Pk	15.5	1.5	32.44	43.52	-11.08	0-360	200	H
3	600.1492	8.27	Pk	25	2.8	36.07	46.02	-9.95	0-360	300	H
4	702.2818	75.14	Pk	25.4	3	103.54	46.02	57.52	0-360	200	H
5	58.2023	9.35	Pk	18.9	.9	29.15	40	-10.85	0-360	100	V
6	138.6862	17.77	Pk	13.8	1.4	32.97	43.52	-10.55	0-360	200	V
7	242.5072	12.89	Pk	18.3	1.8	32.99	46.02	-13.03	0-360	100	V
8	703.6025	74.16	Pk	25.5	3	102.66	46.02	56.64	0-360	100	V

Pk - Peak detector

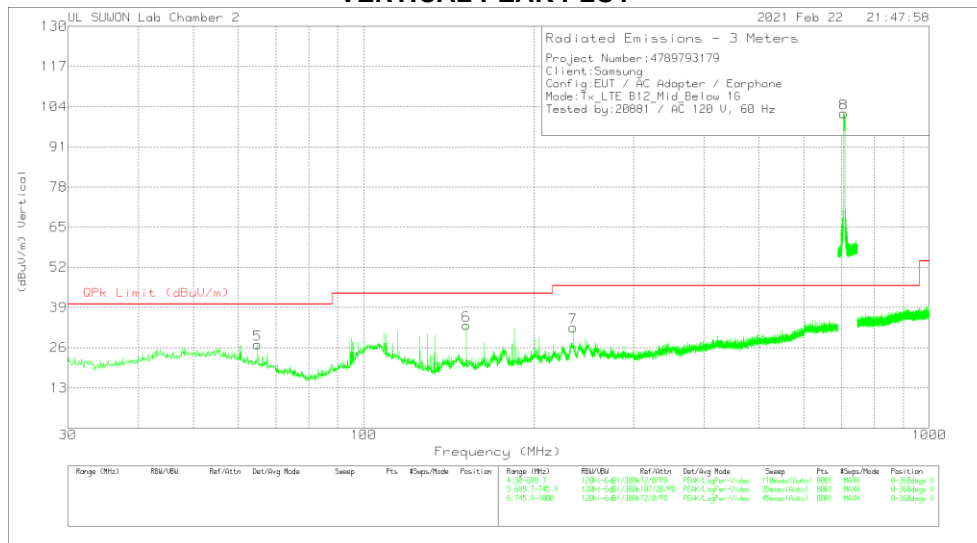
Note: Unwanted emissions captured from 699MHz to 716MHz and from 729MHz to 746MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(737.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

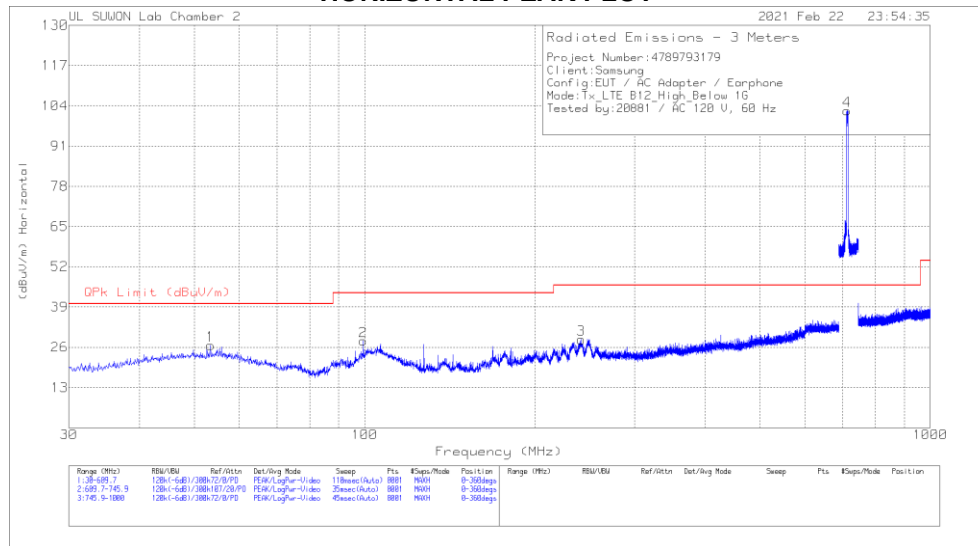
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	64.2221	9.25	Pk	17.3	1	27.55	40	-12.45	0-360	200	H
2	129.7802	18.76	Pk	14.2	1.3	34.26	43.52	-9.26	0-360	200	H
3	242.5896	9.55	Pk	18.3	1.8	29.65	46.02	-16.37	0-360	100	H
4	706.8621	73.39	Pk	25.5	3	101.89	46.02	55.87	0-360	100	H
5	64.9643	9.21	Pk	17	.8	27.01	40	-12.99	0-360	100	V
6	151.9628	17.95	Pk	13.9	1.4	33.25	43.52	-10.27	0-360	100	V
7	234.6732	13.01	Pk	17.9	1.6	32.51	46.02	-13.51	0-360	100	V
8	706.0753	73.33	Pk	25.5	3	101.83	46.02	55.81	0-360	100	V

Pk - Peak detector

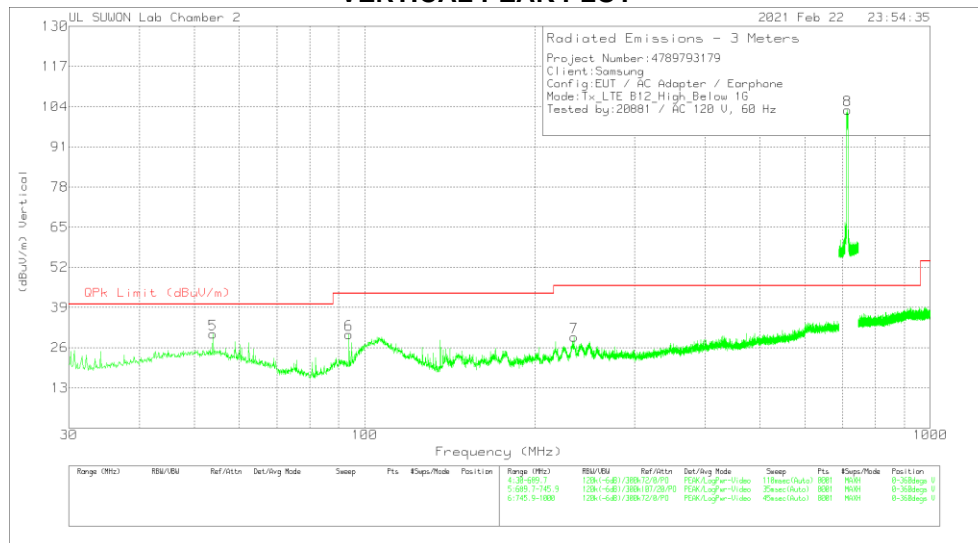
Note: Unwanted emissions captured from 699MHz to 716MHz and from 729MHz to 746MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(743.5 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	53.4195	6.31	Pk	19.5	.8	26.61	40	-13.39	0-360	200	H
2	99.5163	9.55	Pk	17.4	1.1	28.05	43.52	-15.47	0-360	100	H
3	241.6825	8.42	Pk	18.3	1.8	28.52	46.02	-17.5	0-360	200	H
4	712.749	73.82	Pk	25.6	3	102.42	46.02	56.4	0-360	100	H
5	53.9143	10.13	Pk	19.4	.9	30.43	40	-9.57	0-360	100	V
6	93.8264	12.79	Pk	16.4	1.1	30.29	43.52	-13.23	0-360	100	V
7	234.5082	9.75	Pk	17.9	1.8	29.45	46.02	-16.57	0-360	100	V
8	714.0276	74.34	Pk	25.6	3	102.94	46.02	56.92	0-360	100	V

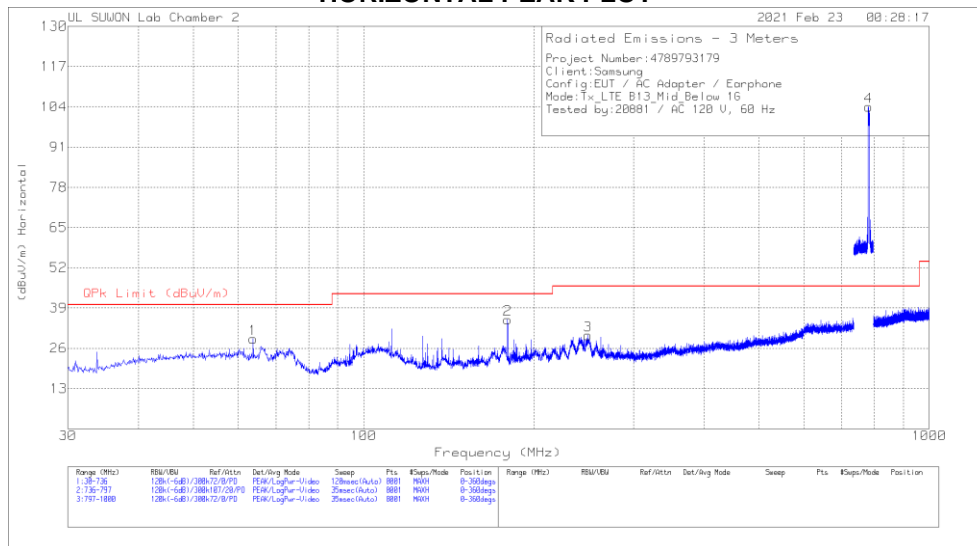
Pk - Peak detector

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

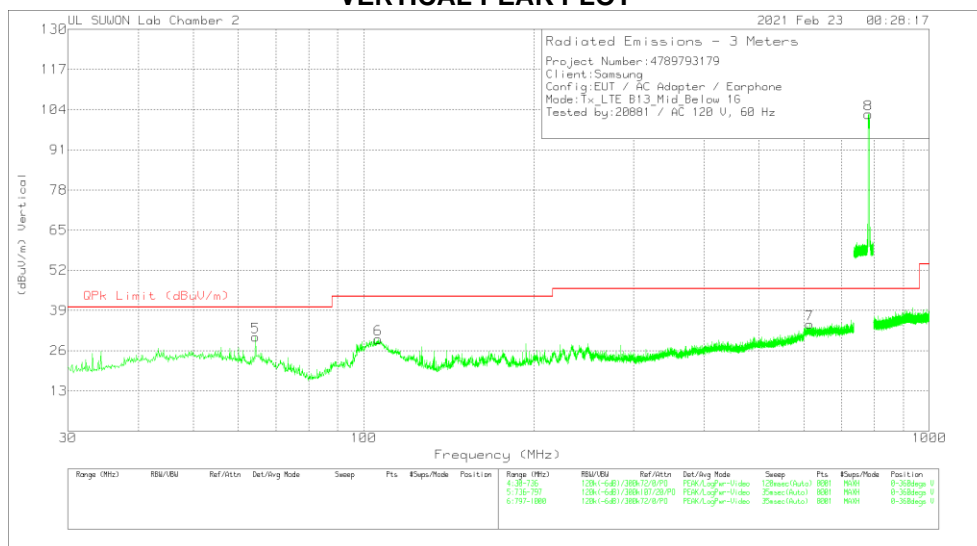
7.15. Below 1 GHz in the LTE Band 13

MID CHANNEL(751.0 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	63.7998	10.73	Pk	17.5	.8	29.03	40	-10.97	0-360	100	H
2	179.7603	18.61	Pk	15.3	1.4	35.31	43.52	-8.21	0-360	100	H
3	249.3895	9.97	Pk	18.4	1.8	30.17	46.02	-15.85	0-360	100	H
4	782.0169	74.29	Pk	26.5	3.2	103.99	46.02	57.97	0-360	200	H
5	64.4175	12.45	Pk	17.2	.8	30.45	40	-9.55	0-360	200	V
6	106.1598	10.98	Pk	17.5	1.2	29.68	43.52	-13.84	0-360	200	V
7	614.1268	6.55	Pk	25.2	2.8	34.55	46.02	-11.47	0-360	400	V
8	780.7283	72.9	Pk	26.5	3.1	102.5	46.02	56.48	0-360	100	V

Pk - Peak detector

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