

CERTIFICATION TEST REPORT

Report Number. : 4790841154-E1V2

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

Model : SM-X518U

FCC ID : A3LSMX518U

EUT Description : GSM/WCDMA/LTE 5G NR Tablet + BT/BLE, DTS/UNII a/b/g/n/ac/ax
and Digitizer.

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

Date Of Issue:
2023-07-28

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Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V1	2023-07-14	Initial issue	Yeonhee Lim
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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.
EUT DESCRIPTION: GSM/WCDMA/LTE 5G NR Tablet + BT/BLE, DTS/UNII a/b/g/n/ac/ax and Digitizer.
MODEL NUMBER: SM-X518U
SERIAL NUMBER: R32W500QQVJ (RADIATED)
DATE TESTED: 2023-06-07~ 2023-07-28;

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 15B	Complies

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:



Seokhwan Hong
Suwon Lab Engineer
UL KOREA LTD.

Tested By:



Yeonhee Lim
Suwon Lab Engineer
UL KOREA LTD.

2. TEST METHODOLOGY

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

1. FCC 47 CFR Part 2.
2. FCC 47 CFR 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(3m semi-anechoic chamber)
<input checked="" type="checkbox"/>	Chamber 2(3m semi-anechoic chamber)
<input checked="" type="checkbox"/>	Chamber 3(3m semi-anechoic chamber)
<input type="checkbox"/>	Chamber 4(3m Full-anechoic chamber)
<input type="checkbox"/>	Chamber 5(3m Full-anechoic chamber)

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:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamp Gain (dB)} \\ 28.9 \text{ dBuV/m} &= 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} \end{aligned}$$

$$\begin{aligned} \text{Corrected Reading (dBuV)} &= \text{Meter Reading (dBuV)} + \text{External Cable (dB)} + \\ &\text{Cableloss (dB)} \\ 46.62 \text{ dBuV} + 9.8 \text{ dB} + 0.1 \text{ dB} &= 56.52 \text{ dBuV} \end{aligned}$$

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	2.80 dB
Radiated Disturbance, 30 MHz to 1 GHz	3.92 dB
Radiated Disturbance, 1 GHz to 18 GHz	5.06 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 2, Clause 4.4.3 in IEC Guide 115:2021.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a GSM/WCDMA/LTE 5G NR Tablet + BT/BLE, DTS/UNII a/b/g/n/ac/ax and Digitizer.

5.2. TEST MODE

Mode	Description
WCDMA BAND 5	Communicating with Call simulator(CMW500)
LTE BAND 71	
LTE BAND 12	
LTE BAND 13	
LTE BAND 14	
LTE BAND 26	
LTE BAND 29 (Downlink CA)	

5.3. WORST-CASE ORIENTATION AND MODE

For DLCA It was tested with LTE Band 29 due to LTE Band 29 was found worst than NR n29 results.

For LTE Band 29 DLCA It operates on the Combination of LTE Band 29 with LTE Band 2

The fundamental and radiated spurious emission were investigated in three orthogonal orientations X,Y and Z, it was determined that below orientation was worst-case orientation for each band.

i. Worst Axis Condition

Band	Worst Case		
	X	Y	Z
WCDMA B5	-	O	-
LTE B71	-	O	-
LTE B12	-	O	-
LTE B13	-	O	-
LTE B14	-	O	-
LTE B26	-	O	-
LTE BAND 29 (Downlink CA)	-	O	-

LTE Band 5

LTE Band 5 (Rx Frequency range: 869-894 MHz) is covered by LTE B26(Rx Frequency range: 859-894 MHz) due to overlapping frequency range and same maximum tune-up limit and same channel bandwidth.

5G NR Band n5

5G NR BAND n5 (Rx Frequency range: 869-894 MHz) is covered by LTE B26(Rx Frequency range: 859-894 MHz) due to same frequency range and maximum tune-up limit is higher than 5G NR BAND n5.

5G NR Band n12

5G NR BAND n12 (Rx Frequency range: 729-746 MHz) is covered by LTE B12(Rx Frequency range: 729-746 MHz) due to same frequency range and same maximum tune-up limit and same channel bandwidth.

5G NR Band n71

5G NR BAND n71 (Rx Frequency range: 617-652 MHz) is covered by LTE B71(Rx Frequency range: 617-652MHz) due to same frequency range and same maximum tune-up limit and same channel bandwidth.

5.4. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacture	Model	Serial Number	FCC ID
Charger	SAMSUNG	EP-TA800	R37M9KML7D2DK3	N/A
Data Cable	SAMSUNG	EP-DN980	GH39-02115A	N/A

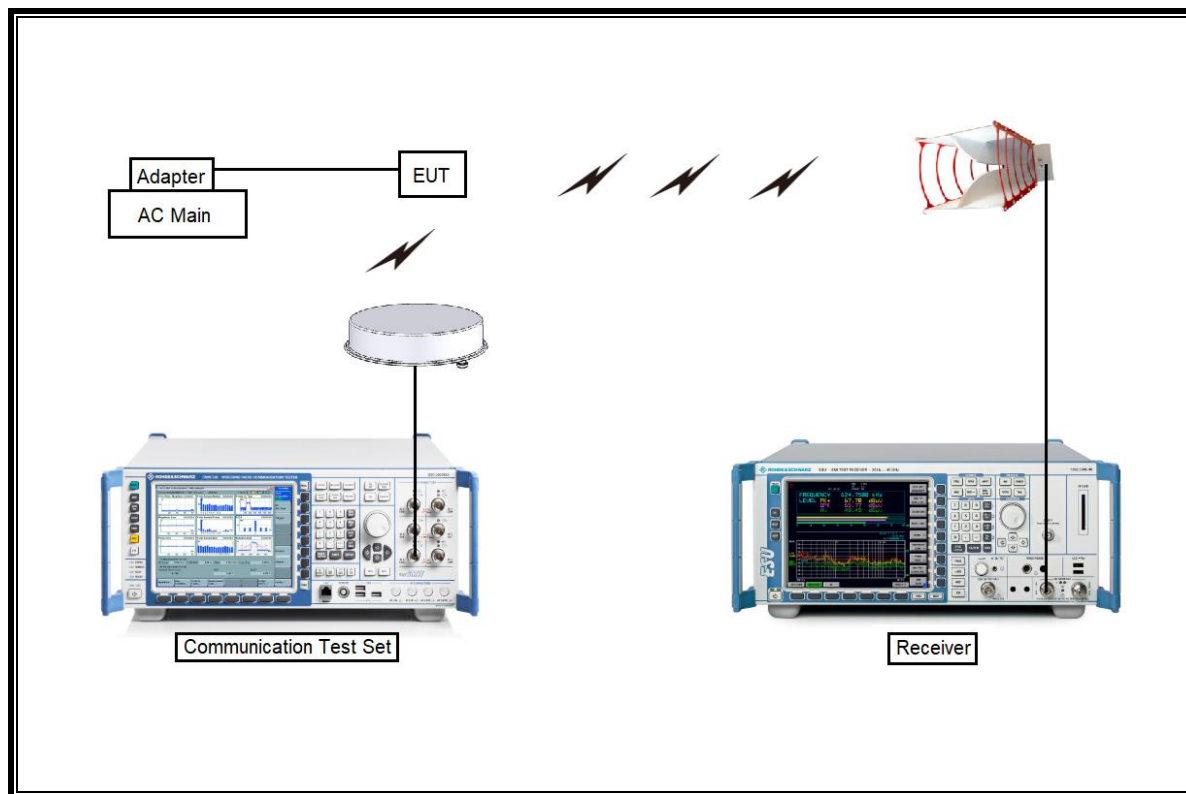
I/O CABLE

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

TEST SETUP

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

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	2025-01-17
Antenna, Horn, 40 GHz	ETS	3116C	00166155	2024-08-02
Antenna, Horn, 40 GHz	ETS	3116C	00168645	2023-10-13
Preamplifier	ETS	3115-PA	00167475	2023-08-04
Preamplifier	ETS	3116C-PA	00168841	2023-08-04
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	750	2024-08-15
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	845	2024-08-15
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	749	2024-08-15
Communications Test Set	R&S	CMW500	169796	2024-01-05
Preamplifier, 1000 MHz	Sonoma	310N	341282	2023-08-02
Preamplifier, 1000 MHz	Sonoma	310N	351741	2023-08-02
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	2029169	2023-08-01
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1896138	2023-08-01
EMI Test Receive, 40 GHz	R&S	ESU40	100439	2023-08-02
EMI Test Receive, 40 GHz	R&S	ESU40	100457	2023-07-29
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	2023-08-01
High Pass Filter 1.2GHz	Micro-Tronics	HPM50108-02	G006	2023-08-01
High Pass Filter 2.8GHz	Micro-Tronics	HPM50111-02	010	2023-08-01
High Pass Filter 2.8GHz	Micro-Tronics	HPM50111-02	011	2023-08-01
High Pass Filter 4GHz	Micro-Tronics	HPM50118-02	G001	2023-08-01
High Pass Filter 4GHz	Micro-Tronics	HPM50118-02	G002	2023-08-01
Attenuator	PASTERNAK	PE7087-10	A009	2023-08-03
Attenuator	PASTERNAK	PE7087-10	A001	2023-08-03
Attenuator	PASTERNAK	PE7087-10	A008	2023-08-03
Attenuator	PASTERNAK	PE7004-10	2	2023-08-01
Attenuator	PASTERNAK	PE7395-10	A011	2023-08-03
EMI Test Receive, 3 GHz	R&S	ESR3	101832	2023-08-01
LISN	R&S	ENV-216	101836	2023-08-04
LISN	R&S	ENV-216	101837	2023-08-04
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

7.1. RADIATED EMISSIONS

TEST PROCEDURE

ANSI C63.4-2014

LIMIT

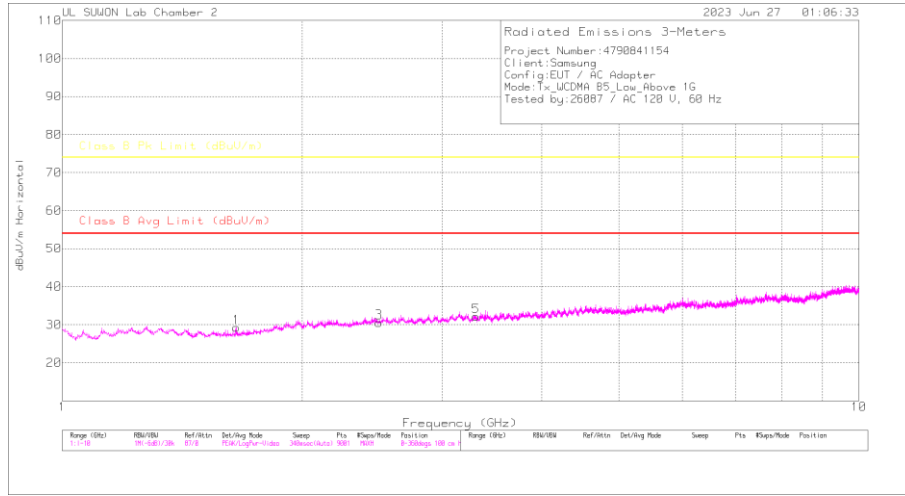
§15.109 (a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

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.	

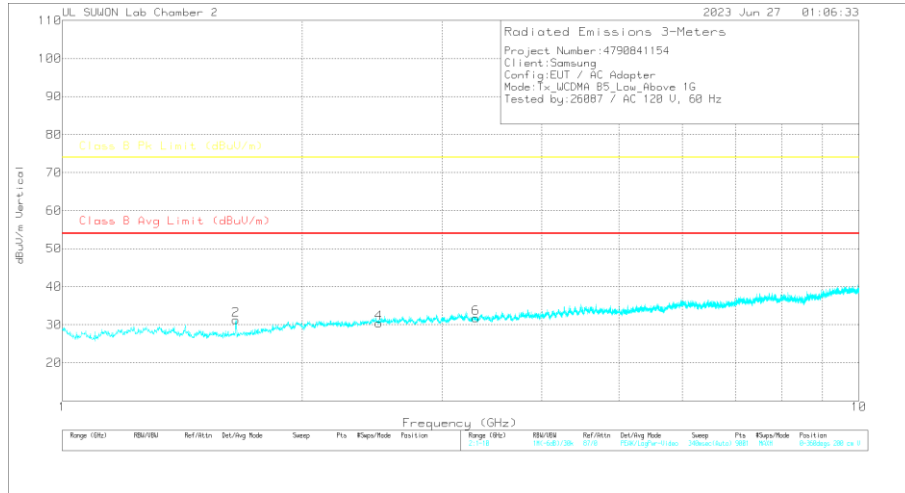
7.1.1. Above 1 GHz in the WCDMA Band 5

LOW CHANNEL(871.4 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

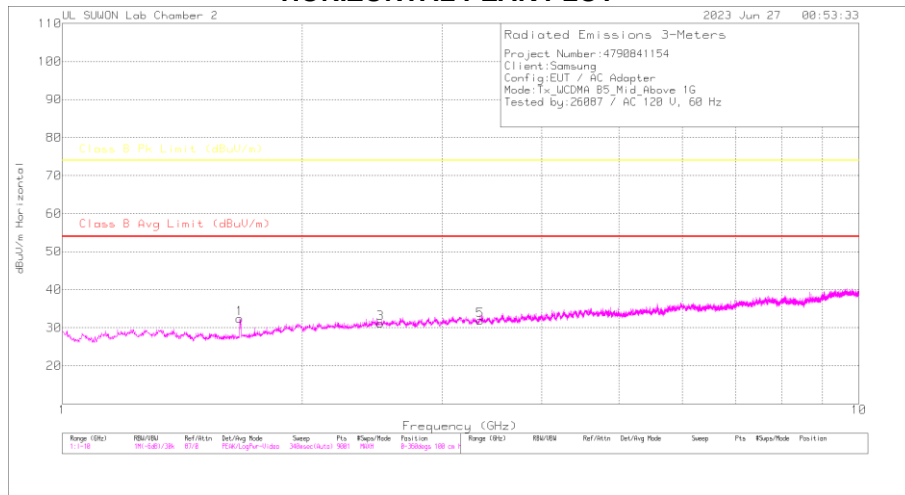
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0016872_4	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
1.654	38.84	Pk	28.4	-30.8	.8	37.24	-	-	74	-36.76	0	100	H
1.654	26.99	Ca	28.4	-30.8	.8	25.39	54	-28.61	-	-	0	100	H
1.651	37.04	Pk	28.3	-30.8	.8	35.34	-	-	74	-38.66	0	100	V
1.651	24.83	Ca	28.3	-30.8	.8	23.13	54	-30.87	-	-	0	100	V
2.497	35.07	Pk	31.9	-29.5	.8	38.27	-	-	74	-35.73	0	100	H
2.497	23.35	Ca	31.9	-29.5	.8	26.55	54	-27.45	-	-	0	100	H
2.497	35.67	Pk	31.9	-29.5	.8	38.87	-	-	74	-35.13	0	100	V
2.497	23.35	Ca	31.9	-29.5	.8	26.55	54	-27.45	-	-	0	100	V
3.305	34.88	Pk	32.7	-29.4	.6	38.78	-	-	74	-35.22	0	100	H
3.305	23.4	Ca	32.7	-29.4	.6	27.3	54	-26.7	-	-	0	100	H
3.305	35.02	Pk	32.7	-29.4	.6	38.92	-	-	74	-35.08	0	100	V
3.305	23.38	Ca	32.7	-29.4	.6	27.28	54	-26.72	-	-	0	100	V

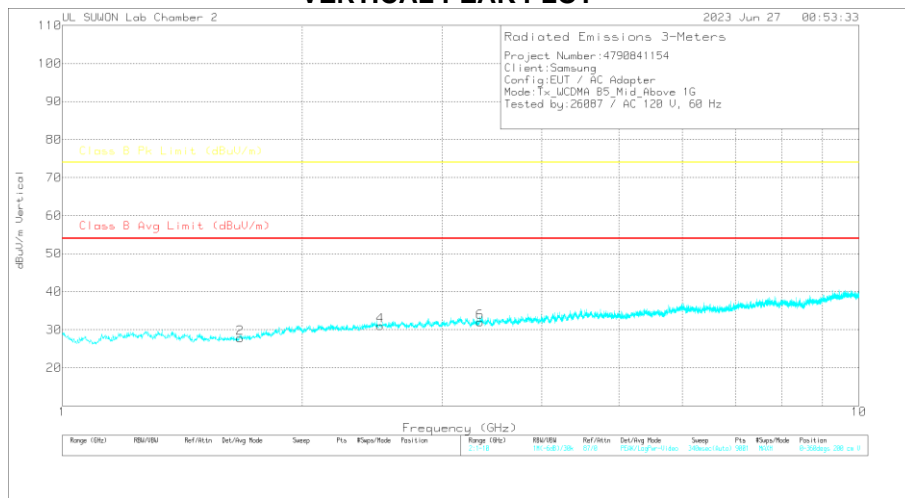
Pk - Peak detector
 Ca - CISPR average detection

MID CHANNEL(881.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

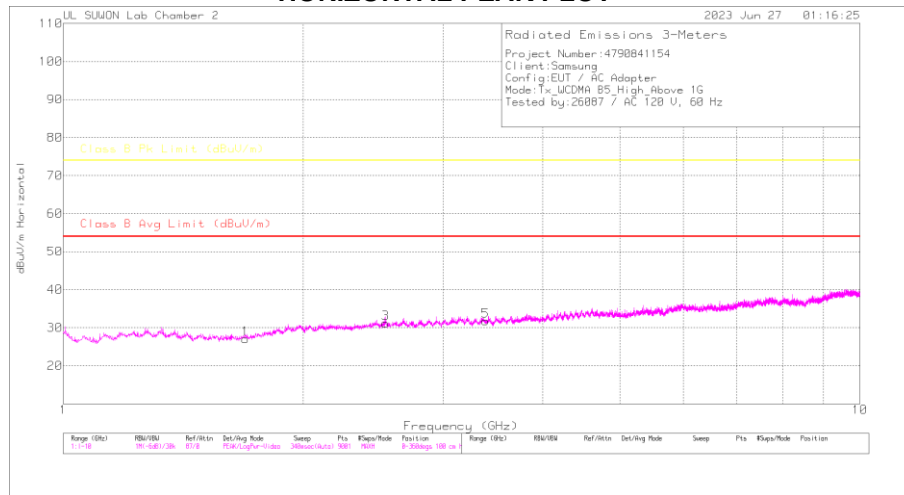
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0016872 4	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
1.671	37.36	Pk	28.4	-30.8	.8	35.76	-	-	74	-38.24	0	100	H
1.671	24.93	Ca	28.4	-30.8	.8	23.33	54	-30.67	-	-	0	100	H
1.673	37.09	Pk	28.4	-30.8	.8	35.49	-	-	74	-38.51	0	100	V
1.673	24.82	Ca	28.4	-30.8	.8	23.22	54	-30.78	-	-	0	100	V
2.509	35.63	Pk	31.9	-29.5	.8	38.83	-	-	74	-35.17	0	100	H
2.509	23.58	Ca	31.9	-29.5	.8	26.78	54	-27.22	-	-	0	100	H
2.509	36.16	Pk	31.9	-29.5	.8	39.36	-	-	74	-34.64	0	100	V
2.509	23.56	Ca	31.9	-29.5	.8	26.76	54	-27.24	-	-	0	100	V
3.346	35.59	Pk	32.6	-29.1	.7	39.79	-	-	74	-34.21	0	100	H
3.346	23.67	Ca	32.6	-29.1	.7	27.87	54	-26.13	-	-	0	100	H
3.346	35.66	Pk	32.6	-29.1	.7	39.86	-	-	74	-34.14	0	100	V
3.346	23.64	Ca	32.6	-29.1	.7	27.84	54	-26.16	-	-	0	100	V

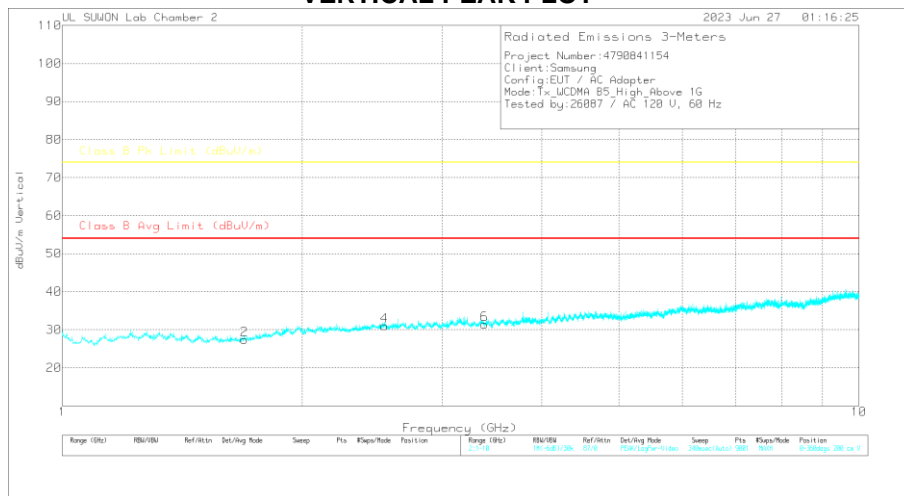
Pk - Peak detector
 Ca - CISPR average detection

HIGH CHANNEL(891.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

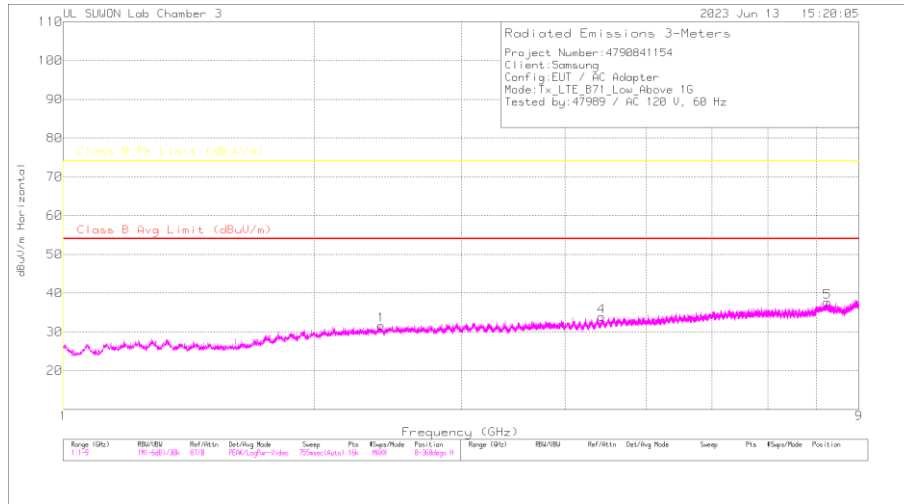
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0016872 4	1-18GHz(dB)	1GHz_HP(dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.693	36.95	Pk	28.5	-30.7	.8	35.55	-	-	74	-38.45	0	100	H
1.693	24.79	Ca	28.5	-30.7	.8	23.39	54	-30.61	-	-	0	100	H
1.693	36.59	Pk	28.5	-30.7	.8	35.19	-	-	74	-38.81	0	100	V
1.693	24.76	Ca	28.5	-30.7	.8	23.36	54	-30.64	-	-	0	100	V
2.539	35.56	Pk	32	-29.5	.7	38.76	-	-	74	-35.24	0	100	H
2.539	23.63	Ca	32	-29.5	.7	26.83	54	-27.17	-	-	0	100	H
2.539	35.7	Pk	32	-29.5	.7	38.9	-	-	74	-35.1	0	100	V
2.539	23.6	Ca	32	-29.5	.7	26.8	54	-27.2	-	-	0	100	V
3.386	35.24	Pk	32.6	-28.7	.7	39.84	-	-	74	-34.16	0	100	H
3.386	22.78	Ca	32.6	-28.7	.7	27.38	54	-26.62	-	-	0	100	H
3.386	35.11	Pk	32.6	-28.7	.7	39.71	-	-	74	-34.29	0	100	V
3.386	22.74	Ca	32.6	-28.7	.7	27.34	54	-26.66	-	-	0	100	V

Pk - Peak detector
 Ca - CISPR average detection

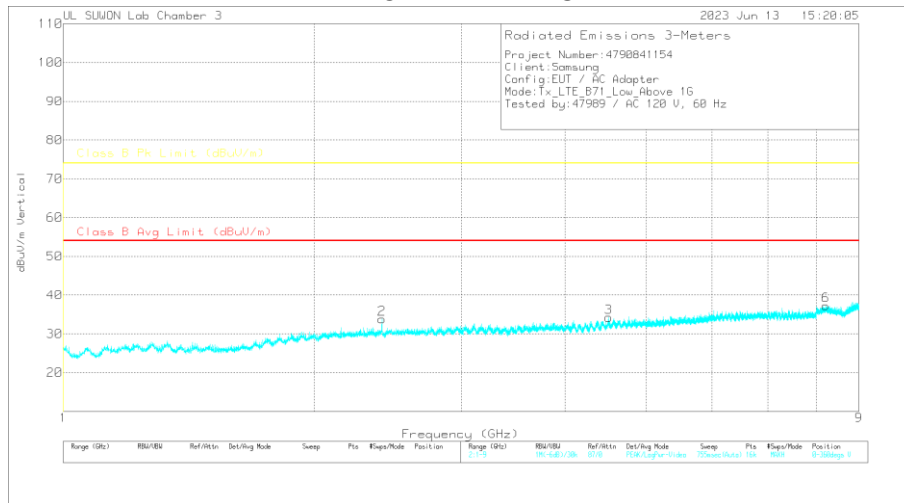
7.1.2. Above 1 GHz in the LTE Band 71

LOW CHANNEL(662.0 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

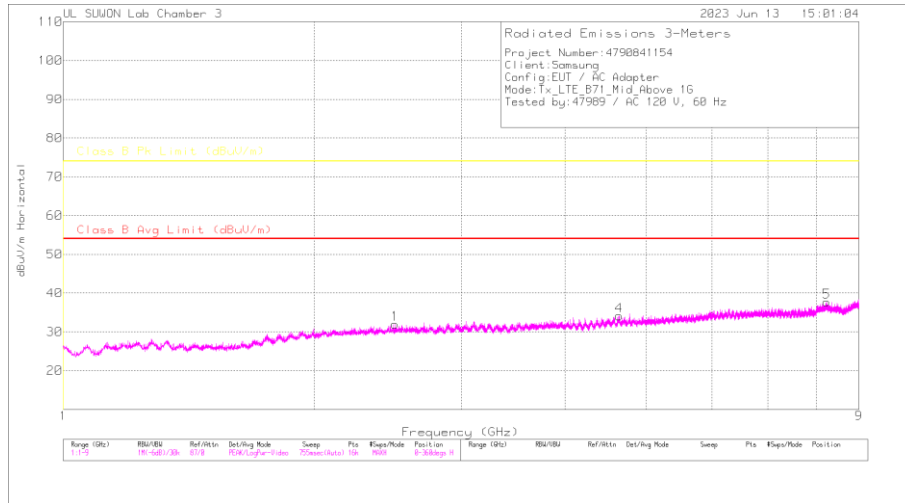
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	1-18GHz(dB)	1GHz_HP(dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.4065	30.97	Pk	32.1	-34.9	.7	28.87	-	-	74	-45.13	0	100	H
2.4065	20.11	Ca	32.1	-34.9	.7	18.01	54	-35.99	-	-	0	100	H
4.4215	29.46	Pk	33.9	-31.8	.5	32.06	-	-	74	-41.94	0	100	H
4.4215	17.15	Ca	33.9	-31.8	.5	19.75	54	-34.25	-	-	0	100	H
8.2475	23.21	Pk	36	-24.2	.7	35.71	-	-	74	-38.29	0	100	H
8.2475	11.48	Ca	36	-24.2	.7	23.98	54	-30.02	-	-	0	100	H
2.411	31.74	Pk	32.1	-34.9	.7	29.64	-	-	74	-44.36	0	100	V
2.411	20.02	Ca	32.1	-34.9	.7	17.92	54	-36.08	-	-	0	100	V
4.507	28.56	Pk	34.1	-31.6	.5	31.56	-	-	74	-42.44	0	100	V
4.507	17.38	Ca	34.1	-31.6	.5	20.38	54	-33.62	-	-	0	100	V
8.211	22.36	Pk	36	-24	.7	35.06	-	-	74	-38.94	0	100	V
8.211	11.43	Ca	36	-24	.7	24.13	54	-29.87	-	-	0	100	V

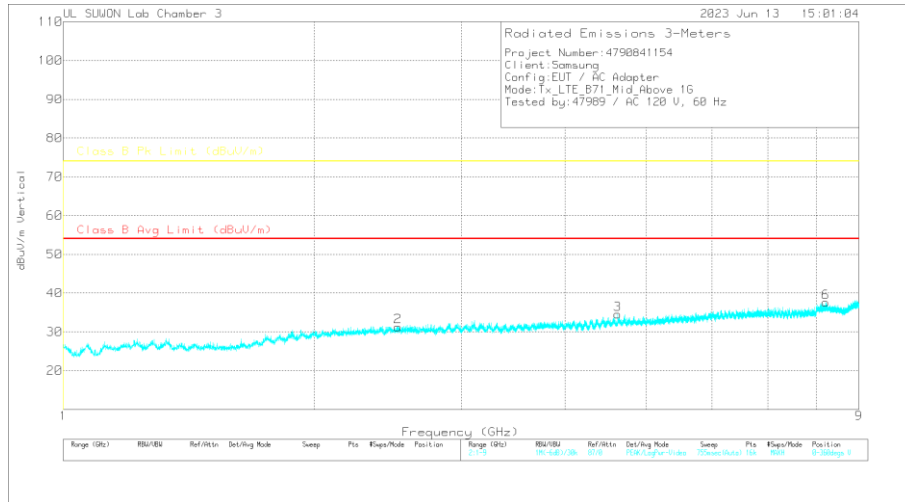
Pk - Peak detector
 Ca - CISPR average detection

MID CHANNEL(634.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

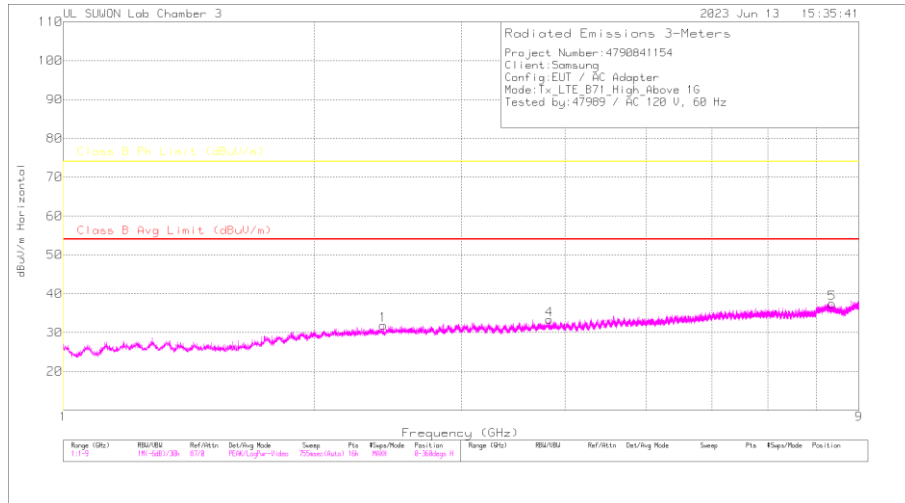
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	1-18GHz(dB)	1GHz_HP[dB]	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.5	31.25	Pk	32.4	-34.7	.7	29.65	-	-	74	-44.35	0	100	H
2.5	19.55	Ca	32.4	-34.7	.7	17.95	-	-36.05	-	-	0	100	H
4.643	28.44	Pk	34.3	-31.5	.5	31.74	-	-	74	-42.26	0	100	H
4.643	17.29	Ca	34.3	-31.5	.5	20.59	-	-33.41	-	-	0	100	H
8.232	23.62	Pk	36	-24.2	.7	36.12	-	-	74	-37.88	0	100	H
8.232	11.58	Ca	36	-24.2	.7	24.08	-	-29.92	-	-	0	100	H
2.52	30.85	Pk	32.4	-34.5	.7	29.45	-	-	74	-44.55	0	100	V
2.52	19.74	Ca	32.4	-34.5	.7	18.34	-	-35.66	-	-	0	100	V
4.623	29.35	Pk	34.2	-31.6	.5	32.45	-	-	74	-41.55	0	100	V
4.623	16.92	Ca	34.2	-31.6	.5	20.02	-	-33.98	-	-	0	100	V
8.21	23.35	Pk	36	-24.1	.7	35.95	-	-	74	-38.05	0	100	V
8.21	11.48	Ca	36	-24.1	.7	24.08	-	-29.92	-	-	0	100	V

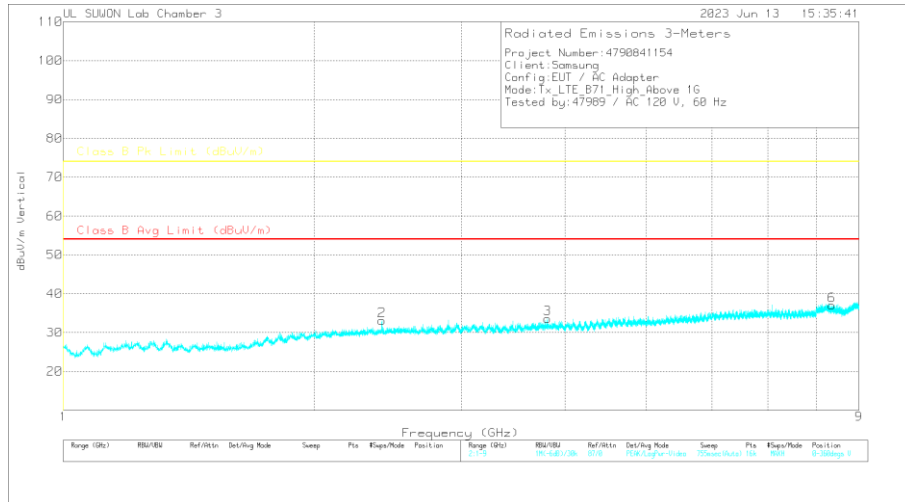
Pk - Peak detector
 Ca - CISPR average detection

HIGH CHANNEL(647.0 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

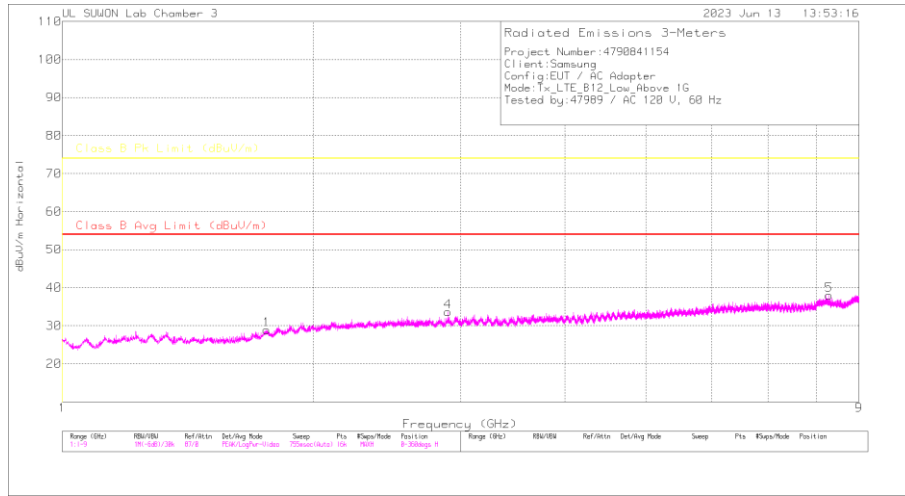
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	1-18GHz(dB)	1GHz_HP[dB]	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.42	31.42	Pk	32.2	-34.9	.7	29.42	-	-	74	-44.58	0	100	H
2.42	19.71	Ca	32.2	-34.9	.7	17.71	-	-36.29	-	-	0	100	H
3.828	29.49	Pk	33.5	-33	.6	30.59	-	-	74	-43.41	0	100	H
3.828	18.07	Ca	33.5	-33	.6	19.17	-	-34.83	-	-	0	100	H
8.3565	22.47	Pk	36	-24.2	.7	34.57	-	-	74	-39.03	0	100	H
8.3565	11.5	Ca	36	-24.2	.7	24	-	-30	-	-	0	100	H
2.4105	31.18	Pk	32.1	-34.9	.7	29.08	-	-	74	-44.92	0	100	V
2.4105	20.06	Ca	32.1	-34.9	.7	17.96	-	-36.04	-	-	0	100	V
3.81	29.56	Pk	33.5	-33	.6	30.66	-	-	74	-43.34	0	100	V
3.81	18.35	Ca	33.5	-33	.6	19.45	-	-34.55	-	-	0	100	V
8.354	22.16	Pk	36	-24.3	.7	34.56	-	-	74	-39.44	0	100	V
8.354	11.47	Ca	36	-24.3	.7	23.87	-	-30.13	-	-	0	100	V

Pk - Peak detector
 Ca - CISPR average detection

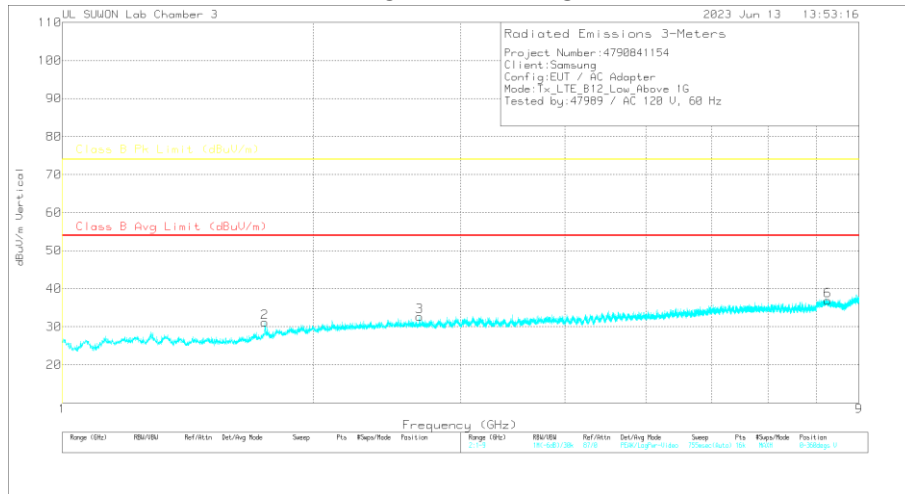
7.1.3. Above 1 GHz in the LTE Band 12

LOW CHANNEL(731.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

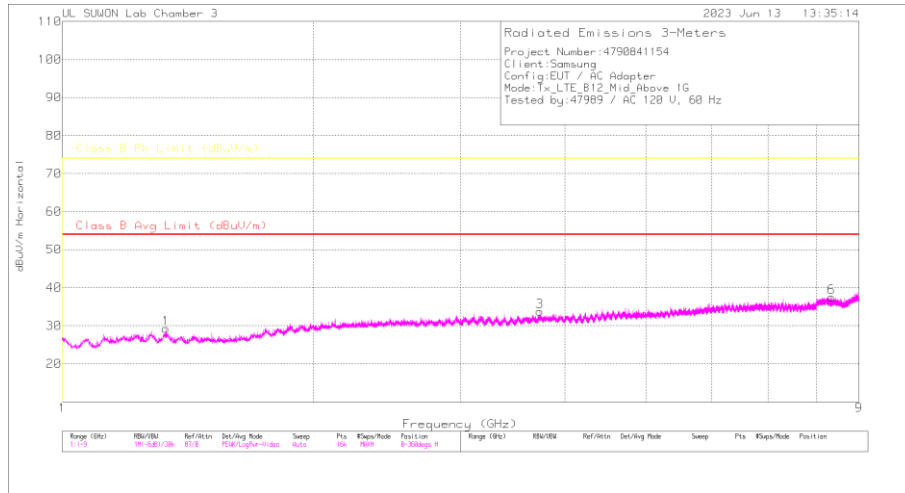
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	1-18GHz(dB)	1GHz_HP(dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.757	31.96	Pk	29.9	-35.4	.7	27.16	-	-	74	-46.84	0	100	H
1.757	20.86	Ca	29.9	-35.4	.7	16.06	54	-37.94	-	-	0	100	H
2.8965	31.22	Pk	32.6	-34.1	.7	30.42	-	-	74	-43.58	0	100	H
2.8965	19.82	Ca	32.6	-34.1	.7	19.02	54	-34.98	-	-	0	100	H
8.29	21.94	Pk	36	-24.2	.7	34.44	-	-	74	-39.56	0	100	H
8.29	11.58	Ca	36	-24.2	.7	24.08	54	-29.92	-	-	0	100	H
1.7485	31.37	Pk	29.9	-35.4	.7	26.57	-	-	74	-47.43	0	100	V
1.7485	20.75	Ca	29.9	-35.4	.7	15.95	54	-38.05	-	-	0	100	V
2.678	30.4	Pk	32.3	-34.4	.7	29	-	-	74	-45	0	100	V
2.678	19.5	Ca	32.3	-34.4	.7	18.1	54	-35.9	-	-	0	100	V
8.249	22.44	Pk	36	-24.3	.7	34.84	-	-	74	-39.16	0	100	V
8.249	11.49	Ca	36	-24.3	.7	23.89	54	-30.11	-	-	0	100	V

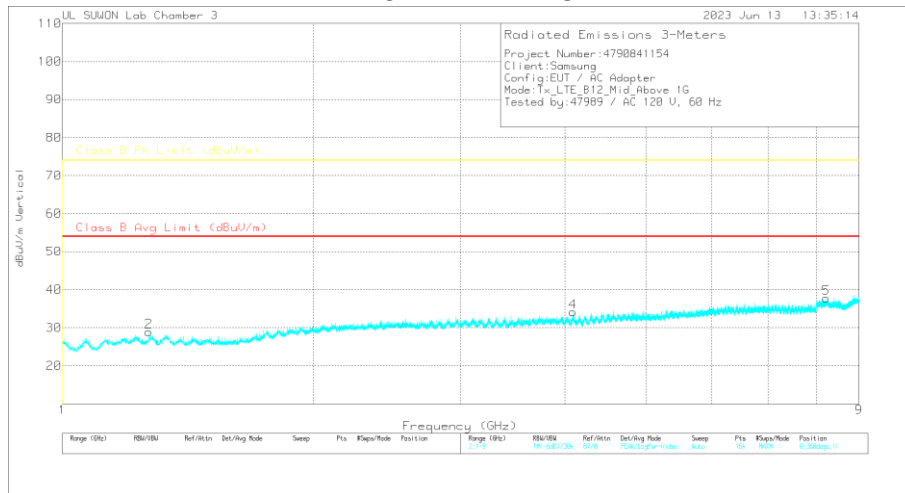
Pk - Peak detector
 Ca - CISPR average detection

MID CHANNEL(737.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

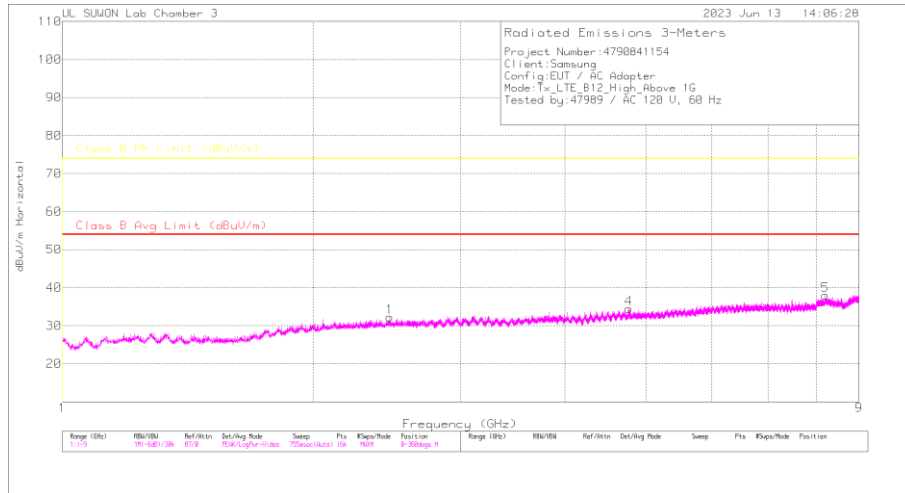
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	1-18GHz(dB)	1GHz_HP[dB]	Corrected Reading (dBuV/m)	Class B Avg Limit (dBUV/m)	Margin (dB)	Class B Pk Limit (dBUV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.3315	33.72	Pk	28.6	-36	.7	27.02	-	-	74	-46.98	0	100	H
1.3315	21.85	Ca	28.6	-36	.7	15.15	54	-38.85	-	-	0	100	H
3.7345	29.62	Pk	33.4	-32.9	.6	30.72	-	-	74	-43.28	0	100	H
3.7345	18.3	Ca	33.4	-32.9	.6	19.4	54	-34.6	-	-	0	100	H
8.3445	22.65	Pk	36	-24.3	.7	35.05	-	-	74	-38.95	0	100	H
8.3445	11.49	Ca	36	-24.3	.7	23.89	54	-30.11	-	-	0	100	H
1.2695	32.14	Pk	28.7	-36.1	.8	25.54	-	-	74	-48.46	0	100	V
1.2695	21.18	Ca	28.7	-36.1	.8	14.58	54	-39.42	-	-	0	100	V
4.092	29.24	Pk	33.5	-32.1	.5	31.14	-	-	74	-42.86	0	100	V
4.092	17.96	Ca	33.5	-32.1	.5	19.86	54	-34.14	-	-	0	100	V
8.2265	22.42	Pk	36	-24.1	.7	35.02	-	-	74	-38.98	0	100	V
8.2265	11.63	Ca	36	-24.1	.7	24.23	54	-29.77	-	-	0	100	V

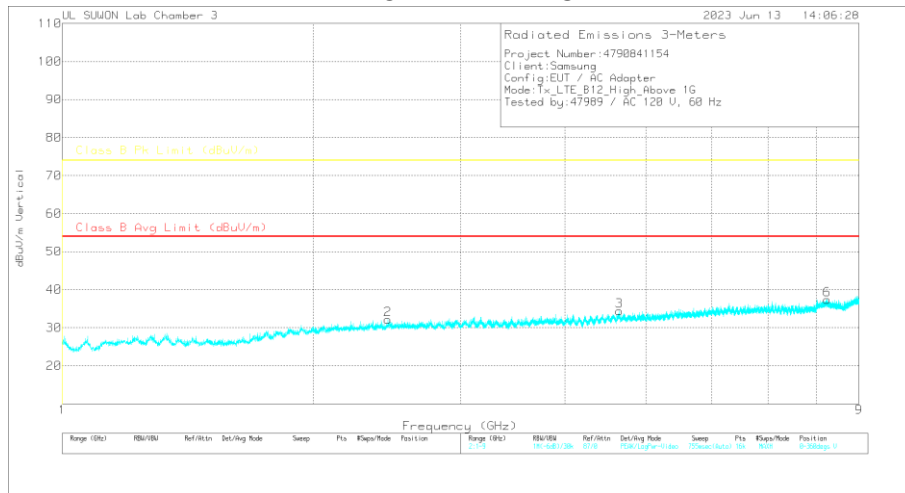
Pk - Peak detector
 Ca - CISPR average detection

HIGH CHANNEL(743.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

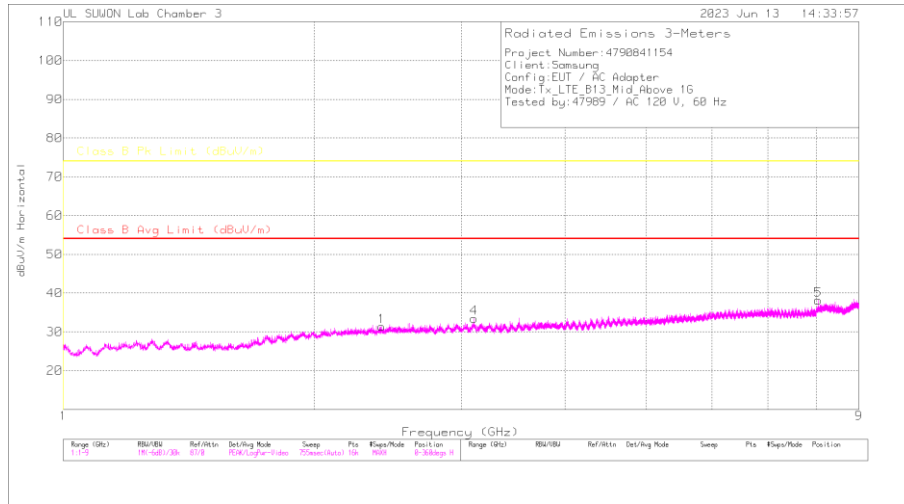
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	1-18GHz(dB)	1GHz_HP[dB]	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.468	31.77	Pk	32.3	-34.8	.7	29.97	-	-	74	-44.03	0	100	H
2.468	20.03	Ca	32.3	-34.8	.7	18.23	54	-35.77	-	-	0	100	H
4.7725	28.19	Pk	34.3	-31.3	.5	31.69	-	-	74	-42.31	0	100	H
4.7725	17	Ca	34.3	-31.3	.5	20.5	54	-33.5	-	-	0	100	H
8.205	22.7	Pk	36	-24	.7	35.4	-	-	74	-38.6	0	100	H
8.205	11.47	Ca	36	-24	.7	24.17	54	-29.83	-	-	0	100	H
2.4545	31.42	Pk	32.3	-34.6	.7	29.62	-	-	74	-44.38	0	100	V
2.4545	20.04	Ca	32.3	-34.6	.7	18.24	54	-35.76	-	-	0	100	V
4.6475	28.12	Pk	34.3	-31.5	.5	31.42	-	-	74	-42.58	0	100	V
4.6475	17.18	Ca	34.3	-31.5	.5	20.48	54	-33.52	-	-	0	100	V
8.245	22.95	Pk	36	-24.3	.7	35.35	-	-	74	-38.65	0	100	V
8.245	11.6	Ca	36	-24.3	.7	24	54	-30	-	-	0	100	V

Pk - Peak detector
 Ca - CISPR average detection

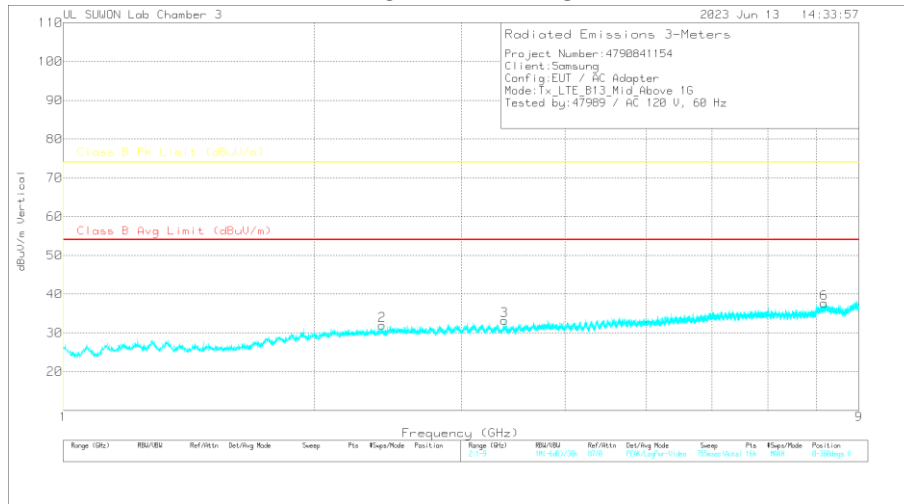
7.1.4. Above 1 GHz in the LTE Band 13

MID CHANNEL(751.0 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

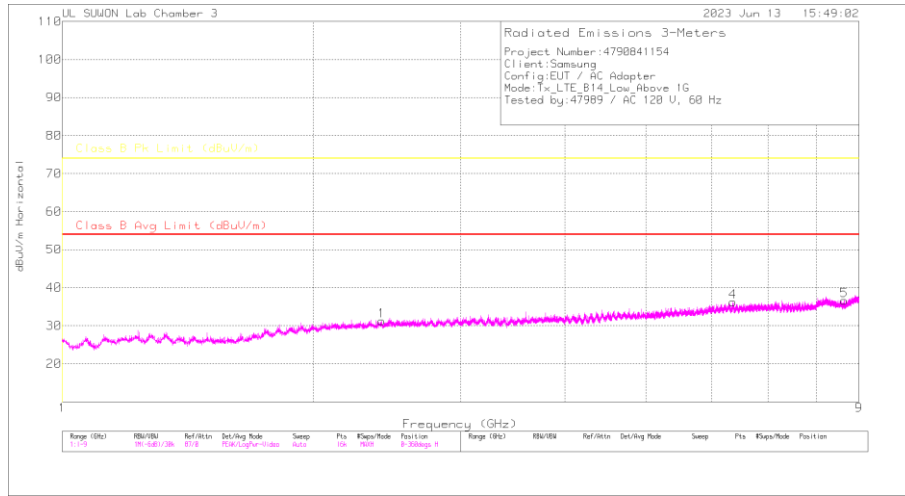
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	1-18GHz(dB)	1GHz_HP[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.4085	31.43	Pk	32.1	-34.9	.7	29.33	-	-	74	-44.67	0	100	H
2.4085	20.05	Ca	32.1	-34.9	.7	17.95	54	-36.05	-	-	0	100	H
3.108	31.46	Pk	32.9	-34	.7	31.06	-	-	74	-42.94	0	100	H
3.108	19.58	Ca	32.9	-34	.7	19.18	54	-34.82	-	-	0	100	H
8.041	23.39	Pk	35.9	-24.8	.6	35.09	-	-	74	-38.91	0	100	H
8.041	12.15	Ca	35.9	-24.8	.6	23.85	54	-30.15	-	-	0	100	H
2.413	31.26	Pk	32.2	-34.9	.7	29.26	-	-	74	-44.74	0	100	V
2.413	19.94	Ca	32.2	-34.9	.7	17.94	54	-36.06	-	-	0	100	V
3.3815	30.23	Pk	32.8	-33.5	.7	30.23	-	-	74	-43.77	0	100	V
3.3815	19.06	Ca	32.8	-33.5	.7	19.06	54	-34.94	-	-	0	100	V
8.1765	22.31	Pk	36	-24.3	.6	34.61	-	-	74	-39.39	0	100	V
8.1765	11.47	Ca	36	-24.3	.6	23.77	54	-30.23	-	-	0	100	V

Pk - Peak detector
 Ca - CISPR average detection

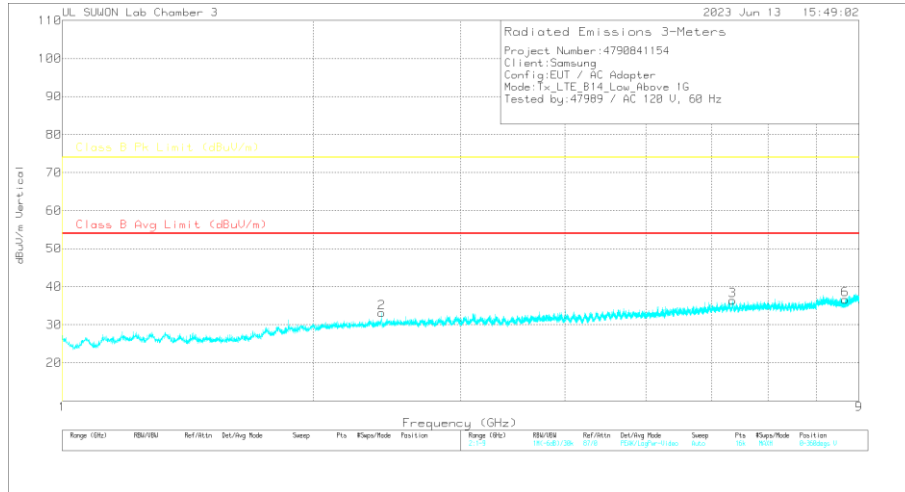
7.1.5. Above 1 GHz in the LTE Band 14

LOW CHANNEL(760.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

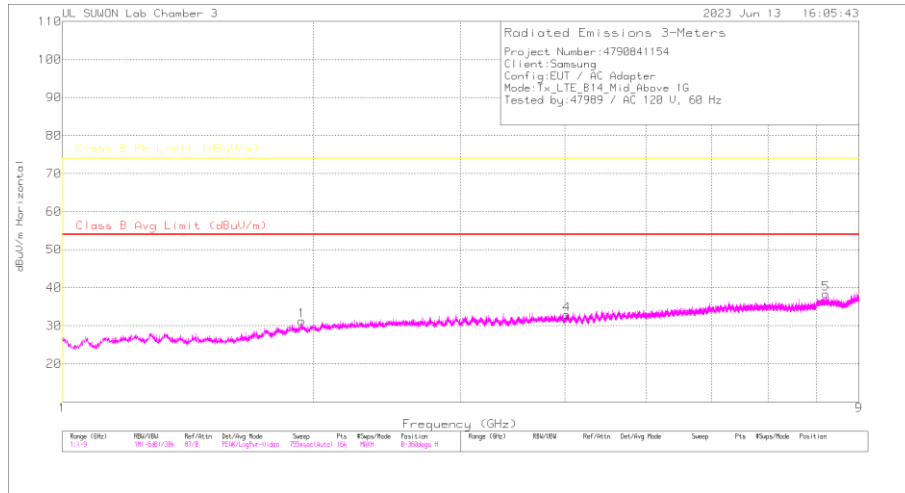
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	1-18GHz(dB)	1GHz_HP(dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.4145	30.91	Pk	32.2	-34.9	.7	28.91	-	-	74	-45.09	360	100	H
2.4145	19.93	Ca	32.2	-34.9	.7	17.93	54	-36.07	-	-	360	100	H
6.3585	26.13	Pk	36	-28.6	.5	34.03	-	-	74	-39.97	360	100	H
6.3585	14.68	Ca	36	-28.6	.5	22.58	54	-31.42	-	-	360	100	H
8.646	20.96	Pk	36.1	-23.7	.7	34.06	-	-	74	-39.94	360	100	H
8.646	10.03	Ca	36.1	-23.7	.7	23.13	54	-30.87	-	-	360	100	H
2.4125	31.36	Pk	32.2	-34.9	.7	29.36	-	-	74	-44.64	360	100	V
2.4125	19.98	Ca	32.2	-34.9	.7	17.98	54	-36.02	-	-	360	100	V
6.3515	26.84	Pk	36	-28.7	.5	34.64	-	-	74	-39.36	360	100	V
6.3515	14.64	Ca	36	-28.7	.5	22.44	54	-31.56	-	-	360	100	V
8.6705	21.35	Pk	36.1	-23.8	.7	34.35	-	-	74	-39.65	360	100	V
8.6705	10.15	Ca	36.1	-23.8	.7	23.15	54	-30.85	-	-	360	100	V

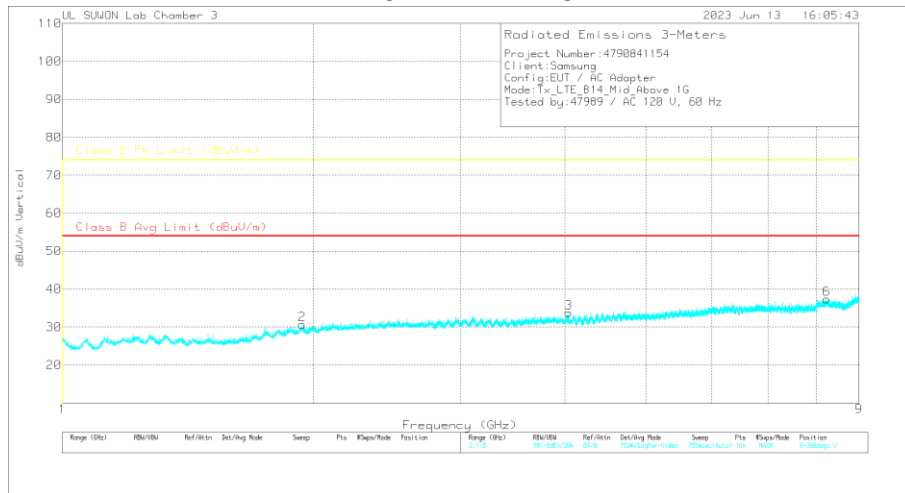
Pk - Peak detector
 Ca - CISPR average detection

MID CHANNEL(763.0 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

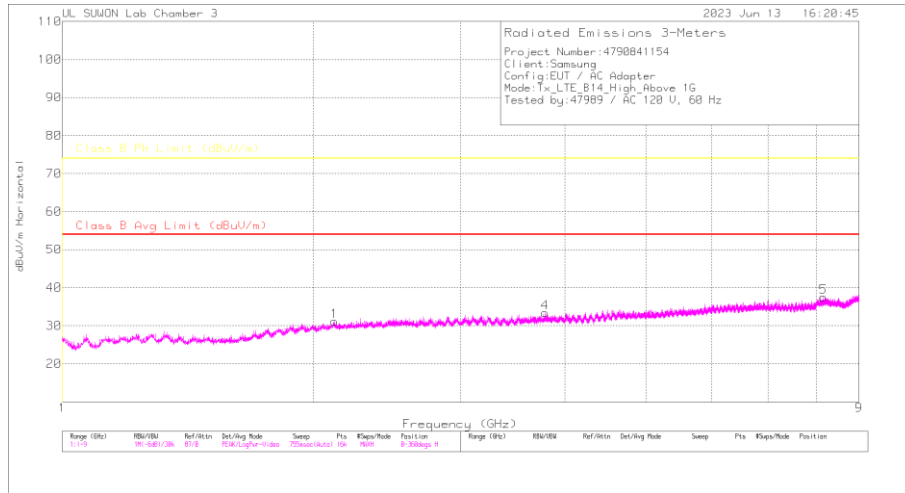
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	1-18GHz(dB)	1GHz_HP[dB]	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.936	32.46	Pk	31	-35.2	.6	28.86	-	-	74	-45.14	0	100	H
1.936	20.81	Ca	31	-35.2	.6	17.21	54	-36.79	-	-	0	100	H
4.022	29.61	Pk	33.5	-32.4	.5	31.21	-	-	74	-42.79	0	100	H
4.022	18.06	Ca	33.5	-32.4	.5	19.66	54	-34.34	-	-	0	100	H
8.216	22.66	Pk	36	-24	.7	35.36	-	-	74	-38.64	0	100	H
8.216	11.52	Ca	36	-24	.7	24.22	54	-29.78	-	-	0	100	H
1.9375	31.65	Pk	31	-35.2	.6	28.05	-	-	74	-45.95	0	100	V
1.9375	20.79	Ca	31	-35.2	.6	17.19	54	-36.81	-	-	0	100	V
4.0425	28.68	Pk	33.5	-32.3	.5	30.38	-	-	74	-43.62	0	100	V
4.0425	17.47	Ca	33.5	-32.3	.5	19.17	54	-34.83	-	-	0	100	V
8.231	22.95	Pk	36	-24.1	.7	35.55	-	-	74	-38.45	0	100	V
8.231	11.58	Ca	36	-24.1	.7	24.18	54	-29.82	-	-	0	100	V

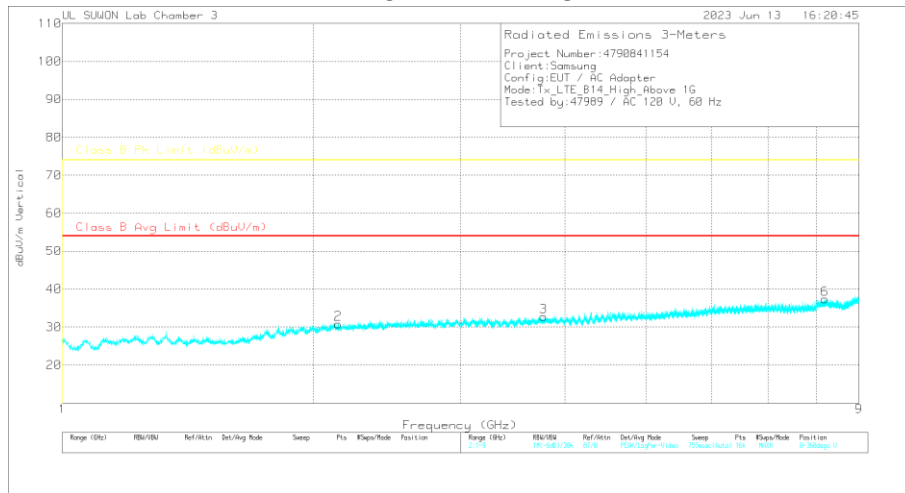
Pk - Peak detector
 Ca - CISPR average detection

HIGH CHANNEL(765 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

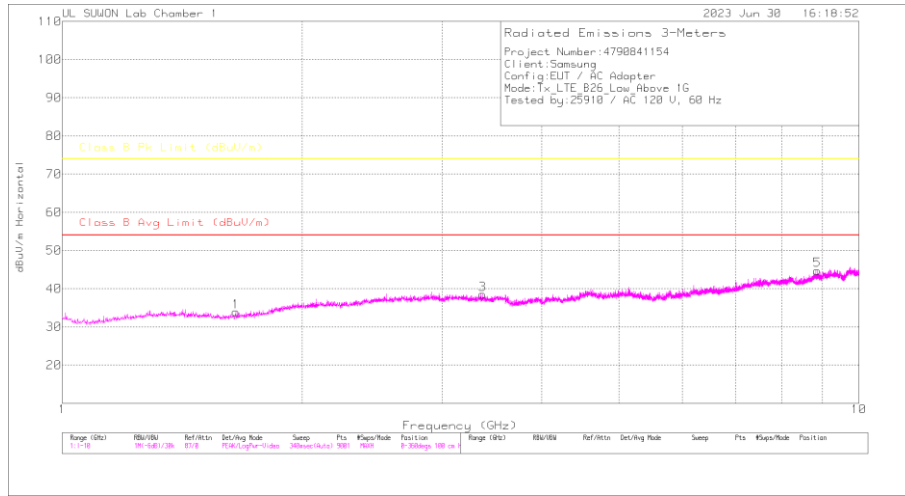
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00218957	1-18GHz(dB)	1GHz_HP[dB]	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.1195	32.46	Pk	31.5	-34.8	.7	29.86	-	-	74	-44.14	0	100	H
2.1195	20.33	Ca	31.5	-34.8	.7	17.73	54	-36.27	-	-	0	100	H
3.786	29.74	Pk	33.5	-32.9	.6	30.94	-	-	74	-43.06	0	100	H
3.786	18.22	Ca	33.5	-32.9	.6	19.42	54	-34.58	-	-	0	100	H
8.1805	23.41	Pk	36	-24.3	.6	35.71	-	-	74	-38.29	0	100	H
8.1805	11.64	Ca	36	-24.3	.6	23.94	54	-30.06	-	-	0	100	H
2.14	31.45	Pk	31.5	-34.7	.7	28.95	-	-	74	-45.05	0	100	V
2.14	19.91	Ca	31.5	-34.7	.7	17.41	54	-36.59	-	-	0	100	V
3.774	28.88	Pk	33.4	-33	.6	29.88	-	-	74	-44.12	0	100	V
3.774	18.07	Ca	33.4	-33	.6	19.07	54	-34.93	-	-	0	100	V
8.187	22.92	Pk	36	-24.2	.7	35.42	-	-	74	-38.58	0	100	V
8.187	11.35	Ca	36	-24.2	.7	23.85	54	-30.15	-	-	0	100	V

Pk - Peak detector
 Ca - CISPR average detection

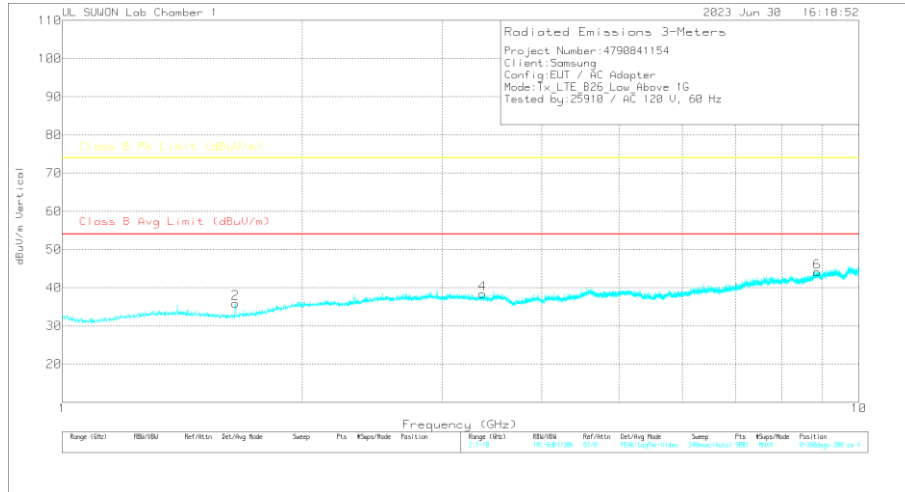
7.1.6. Above 1 GHz in the LTE Band 26

LOW CHANNEL(871.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

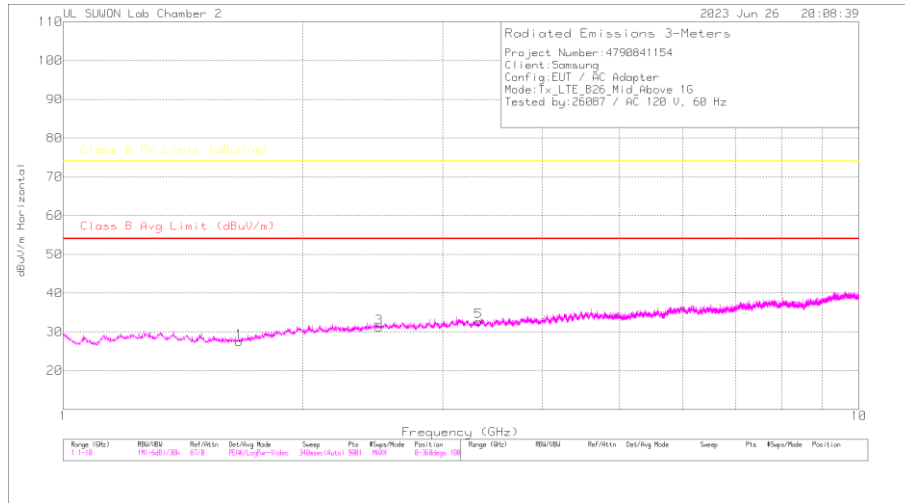
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0016871 7	1-18GHz[dB]	1G HPF[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
1.651	42.03	Pk	28.5	-36.5	.8	34.83	-	-	74	-39.17	0	100	H
1.651	29.86	Ca	28.5	-36.5	.8	22.66	54	-31.34	-	-	0	100	H
3.371	35.36	Pk	33	-33.6	.7	35.46	-	-	74	-38.54	0	100	H
3.371	23.83	Ca	33	-33.6	.7	23.93	54	-30.07	-	-	0	100	H
8.871	28.95	Pk	36.4	-25.1	.5	40.75	-	-	74	-33.25	0	100	H
8.871	18.25	Ca	36.4	-25.1	.5	30.05	54	-23.95	-	-	0	100	H
1.65	48.3	Pk	28.5	-36.5	.8	41.1	-	-	74	-32.9	0	100	V
1.65	36.5	Ca	28.5	-36.5	.8	29.3	54	-24.7	-	-	0	100	V
3.368	45.2	Pk	33	-33.7	.7	45.2	-	-	74	-28.8	0	100	V
3.368	32.9	Ca	33	-33.7	.7	32.9	54	-21.1	-	-	0	100	V
8.869	39.21	Pk	36.4	-25	.5	51.11	-	-	74	-22.89	0	100	V
8.869	27.5	Ca	36.4	-25	.5	39.4	54	-14.6	-	-	0	100	V

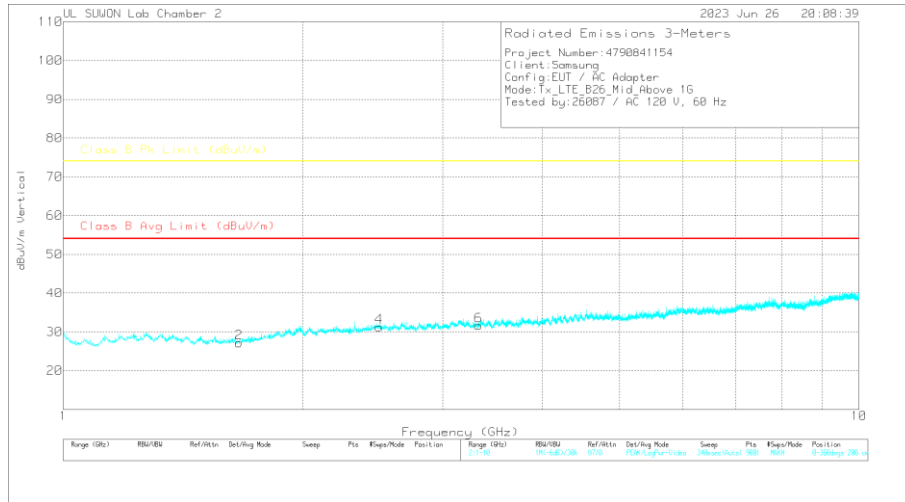
Pk - Peak detector
 Ca - CISPR average detection

MID CHANNEL(876.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

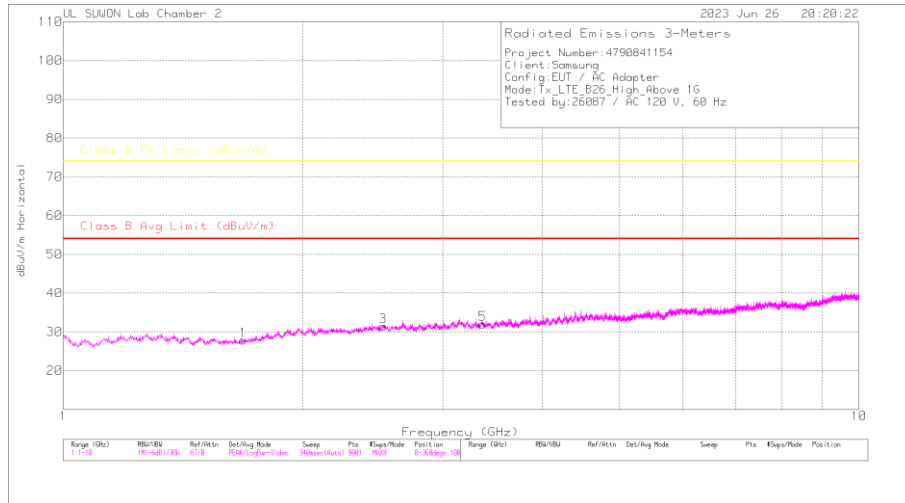
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0016872 4	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
1.663	36.59	Pk	28.4	-30.8	.8	34.99	-	-	74	-39.01	360	100	H
1.663	24.92	Ca	28.4	-30.8	.8	23.32	54	-30.68	-	-	360	100	H
1.663	36.81	Pk	28.4	-30.8	.8	35.21	-	-	74	-38.79	360	100	V
1.663	24.87	Ca	28.4	-30.8	.8	23.27	54	-30.73	-	-	360	100	V
2.494	37.89	Pk	31.9	-29.4	.8	41.19	-	-	74	-32.81	360	100	H
2.494	23.64	Ca	31.9	-29.4	.8	26.94	54	-27.06	-	-	360	100	H
2.494	35.73	Pk	31.9	-29.4	.8	39.03	-	-	74	-34.97	360	100	V
2.494	23.47	Ca	31.9	-29.4	.8	26.77	54	-27.23	-	-	360	100	V
3.326	35.3	Pk	32.6	-29.2	.7	39.4	-	-	74	-34.6	360	100	H
3.326	23.2	Ca	32.6	-29.2	.7	27.3	54	-26.7	-	-	360	100	H
3.326	34.89	Pk	32.6	-29.2	.7	38.99	-	-	74	-35.01	360	100	V
3.326	23.2	Ca	32.6	-29.2	.7	27.3	54	-26.7	-	-	360	100	V

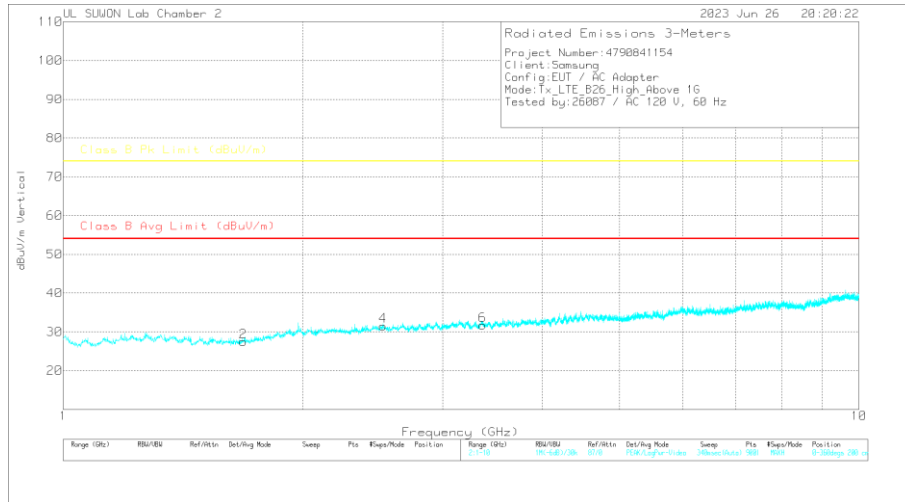
Pk - Peak detector
 Ca - CISPR average detection

HIGH CHANNEL(891.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

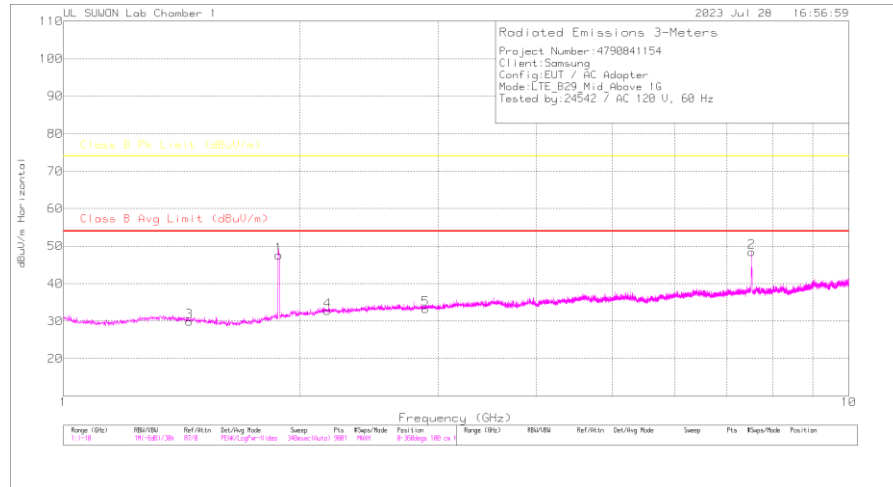
Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0016872 4	1-18GHz(dB)	1GHz_HP(dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.683	37.68	Pk	28.5	-30.7	.8	36.28	-	-	74	-37.72	360	100	H
1.683	24.9	Ca	28.5	-30.7	.8	23.5	54	-30.5	-	-	360	100	H
1.683	37.23	Pk	28.5	-30.7	.8	35.83	-	-	74	-38.17	360	100	V
1.683	24.87	Ca	28.5	-30.7	.8	23.47	54	-30.53	-	-	360	100	V
2.524	34.8	Pk	31.9	-29.4	.7	38	-	-	74	-36	360	100	H
2.524	23.5	Ca	31.9	-29.4	.7	26.7	54	-27.3	-	-	360	100	H
2.524	35.86	Pk	31.9	-29.4	.7	39.06	-	-	74	-34.94	360	100	V
2.524	23.5	Ca	31.9	-29.4	.7	26.7	54	-27.3	-	-	360	100	V
3.366	35.79	Pk	32.6	-29	.7	40.09	-	-	74	-33.91	360	100	H
3.366	23.5	Ca	32.6	-29	.7	27.8	54	-26.2	-	-	360	100	H
3.366	36.38	Pk	32.6	-29	.7	40.68	-	-	74	-33.32	360	100	V
3.366	23.51	Ca	32.6	-29	.7	27.81	54	-26.19	-	-	360	100	V

Pk - Peak detector
 Ca - CISPR average detection

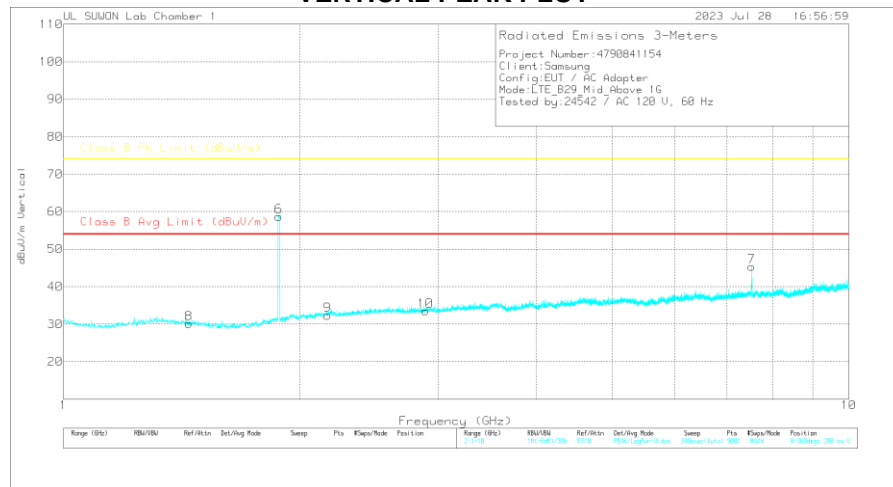
7.1.7. Above 1 GHz in the LTE Band 29 (Downlink CA)

MID CHANNEL(722.7 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168717	1-18GHz(dB)	1G HPF(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	1.89	55.04	PK	30.6	-38.7	.6	47.54	-	-	74	-26.46	0-360	150	H
2	7.52	42.88	PK	35.6	-30.4	.4	48.48	-	-	74	-25.52	0-360	100	H
3	1.446	39.18	PK	29.2	-39.3	.8	29.88	-	-	74	-44.12	0-360	100	H
4	2.168	38.71	PK	31.6	-38.2	.7	32.81	-	-	74	-41.19	0-360	100	H
5	2.891	37.75	PK	32.4	-37.7	.8	33.25	-	-	74	-40.75	0-360	150	H
**6	1.88	66.16	PK	30.6	-38.7	.6	58.66	-	-	74	-15.34	0-360	200	V
7	7.52	39.7	PK	35.6	-30.4	.4	45.3	-	-	74	-28.7	0-360	200	V
8	1.445	39.43	PK	29.2	-39.3	.8	30.13	-	-	74	-43.87	0-360	200	V
9	2.168	38.23	PK	31.6	-38.2	.7	32.33	-	-	74	-41.67	0-360	200	V
10	2.891	38.04	PK	32.4	-37.7	.8	33.54	-	-	74	-40.46	0-360	200	V

PK – Peak Detector

** - LTE B2 (PCC) Fundamental
 2, 7 Marker – LTE B2(PCC) 4th Harmonic

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117_0016871 7	1-18GHz(dB)	1G HPF(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
1.446	35.35	Avg	29.2	-39.3	.8	26.05	-	-	74	-47.95	0	100	H
1.445	34.99	Avg	29.2	-39.3	.8	25.69	-	-	74	-48.31	0	100	V
2.168	34.76	Avg	31.6	-38.2	.7	28.86	-	-	74	-45.14	0	100	H
2.168	34.48	Avg	31.6	-38.2	.7	28.58	-	-	74	-45.42	0	100	V
2.891	34.07	Avg	32.4	-37.7	.8	29.57	-	-	74	-44.43	0	100	H
2.891	33.73	Avg	32.4	-37.7	.8	29.23	-	-	74	-44.77	0	100	V

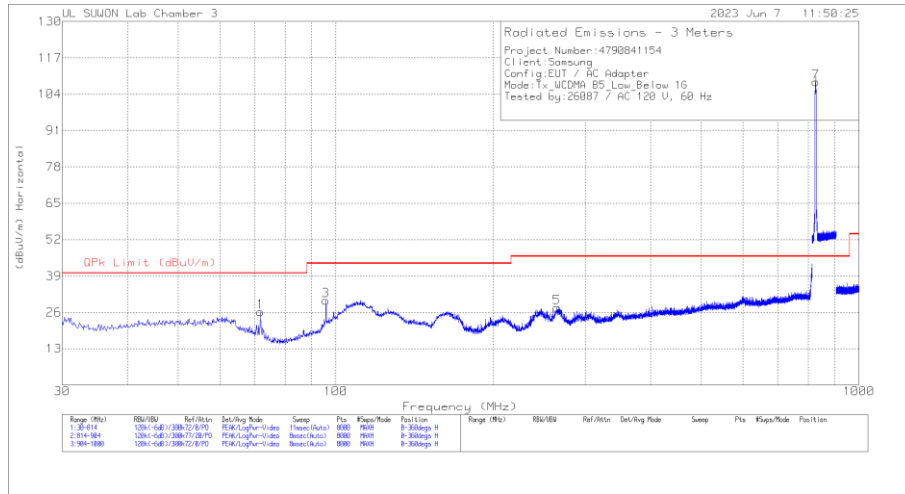
Avg - Video bandwidth < Resolution bandwidth

Note: Unwanted emissions captured from 722.7 MHz were the RX signals generated from the call-simulator.

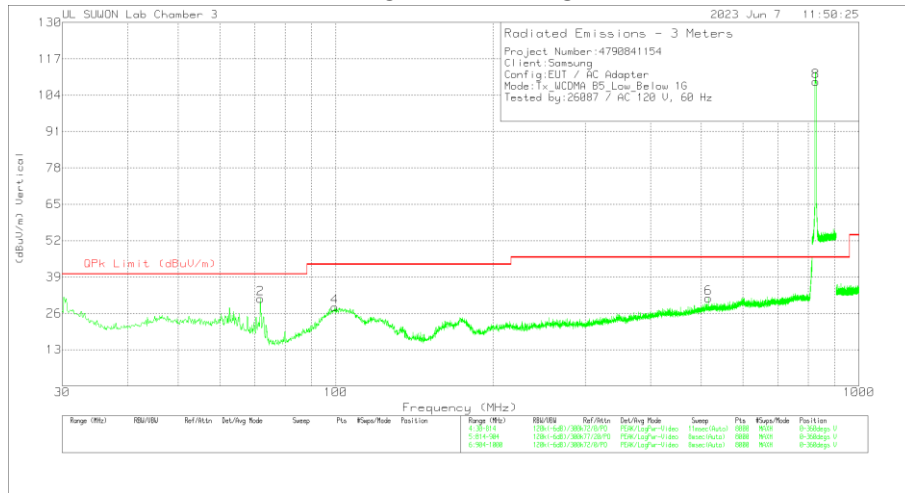
7.1.8. Below 1 GHz in the WCDMA Band 5

LOW CHANNEL(871.4 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

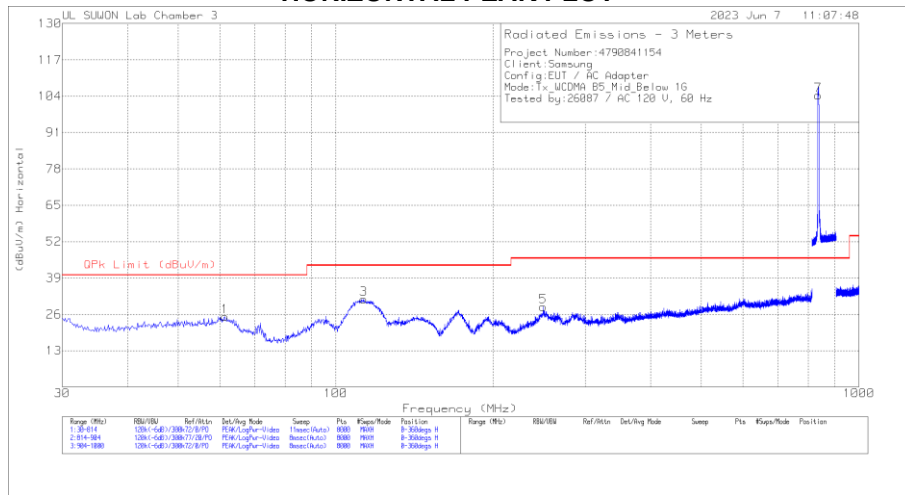
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_845	Below_1G_Bypass (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	71.7531	10.74	Pk	14.3	1.1	26.14	40	-13.86	0-360	100	H
3	95.7661	11.86	Pk	17	1.3	30.16	43.52	-13.36	0-360	200	H
5	264.5427	7.56	Pk	18	2.2	27.76	46.02	-18.26	0-360	100	H
7	826.4099	78.26	Pk	26.1	4	108.36	46.02	62.34	0-360	200	H
2	71.7531	15.89	Pk	14.3	1.1	31.29	40	-8.71	0-360	200	V
4	99.5885	9.62	Pk	17.2	1.3	28.12	43.52	-15.4	0-360	300	V
6	515.7475	5.53	Pk	22.8	3.1	31.43	46.02	-14.59	0-360	400	V
8	826.4099	78.74	Pk	26.1	4	108.84	46.02	62.82	0-360	100	V

Pk - Peak detector

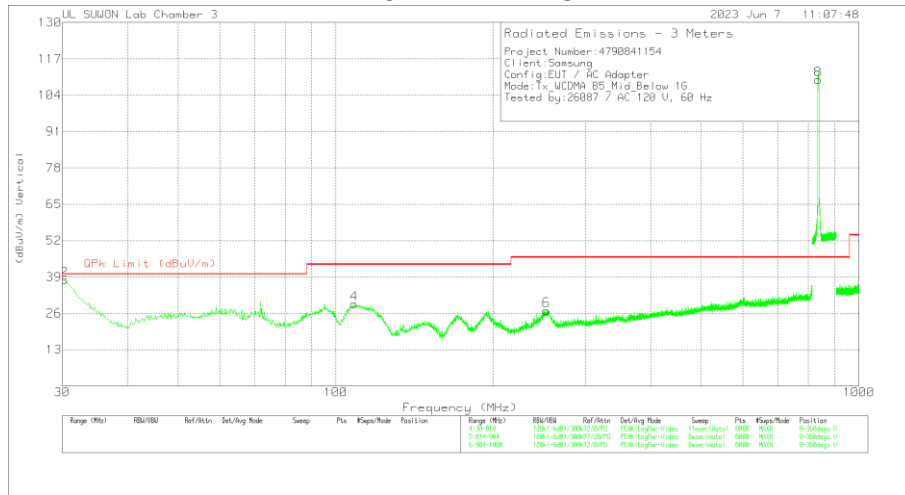
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(881.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_845	Below_1G_Bypass (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	61.3638	6.1	Pk	18	1	25.1	40	-14.9	0-360	300	H
3	113.0162	13.54	Pk	16.5	1.4	31.44	43.52	-12.08	0-360	200	H
5	248.9588	8.26	Pk	18.3	2.1	28.66	46.02	-17.36	0-360	100	H
7	836.6145	73.91	Pk	26.3	4	104.21	46.02	58.19	0-360	400	H
2	30.294	21.55	Pk	15.8	.7	38.05	40	-1.95	0-360	100	V
4	108.5076	10.48	PK	17.5	1.4	29.38	43.52	-14.14	0-360	100	V
6	252.7813	6.59	PK	18.3	2.2	27.09	46.02	-18.93	0-360	100	V
8	836.6033	79.2	PK	26.3	4	109.5	46.02	63.48	0-360	300	V

Pk - Peak detector

Radiated Emissions

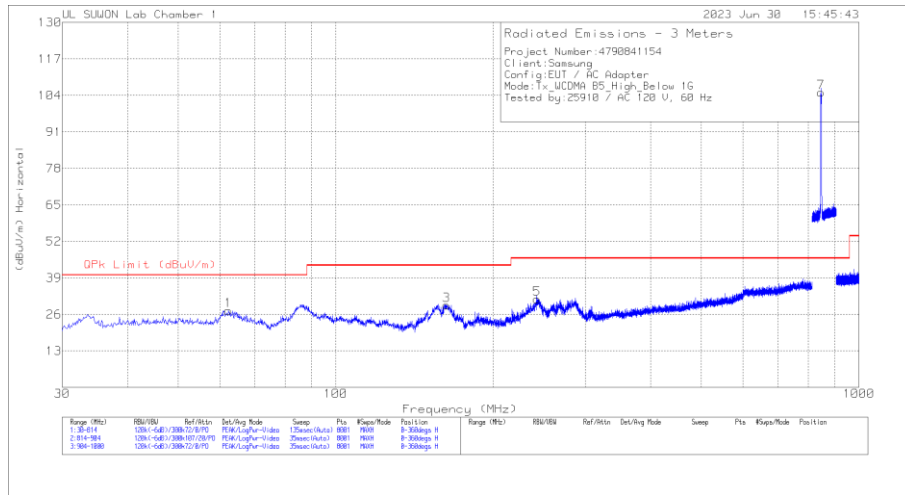
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_845	Below_1G_Bypass (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
30.294	17.68	Qp	15.8	.7	34.18	40	-5.82	196	100	V

Qp - Quasi-Peak detector

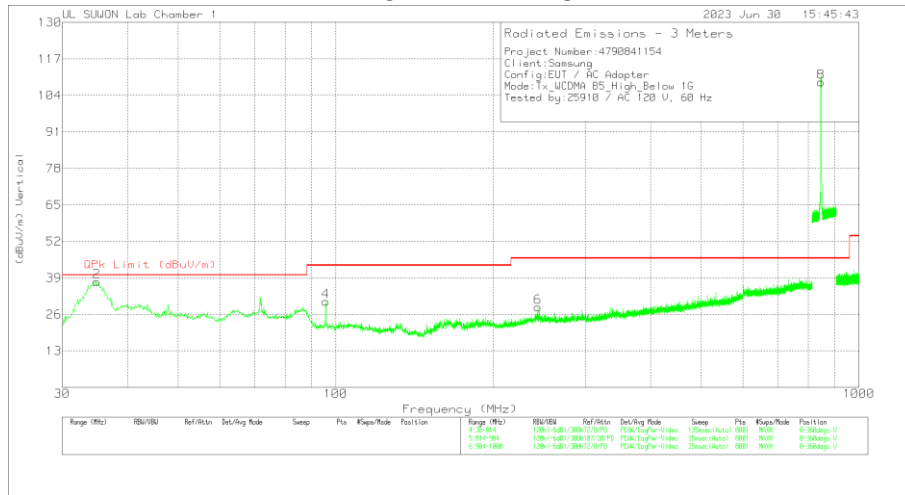
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(891.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	62.34	8.2	Pk	17.7	1.5	27.4	40	-12.6	0-360	100	H
3	162.986	12.35	Pk	14.3	2.7	29.35	43.52	-14.17	0-360	100	H
5	242.268	10.32	Pk	17.9	3.3	31.52	46.02	-14.5	0-360	100	H
7	846.6025	72.62	Pk	26.4	6	105.02	46.02	59	0-360	300	H
2	34.9	19.77	PK	16.5	1.4	37.67	40	-2.33	0-360	200	V
4	95.758	11.83	Pk	16.8	2	30.63	43.52	-12.89	0-360	200	V
6	243.248	7.47	Pk	17.9	3.3	28.67	46.02	-17.35	0-360	300	V
8	846.6025	76.32	Pk	26.4	6	108.72	46.02	62.7	0-360	100	V

Pk - Peak detector

Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
34.9	14.23	Qp	16.5	1.4	32.13	40	-7.87	50	105	V

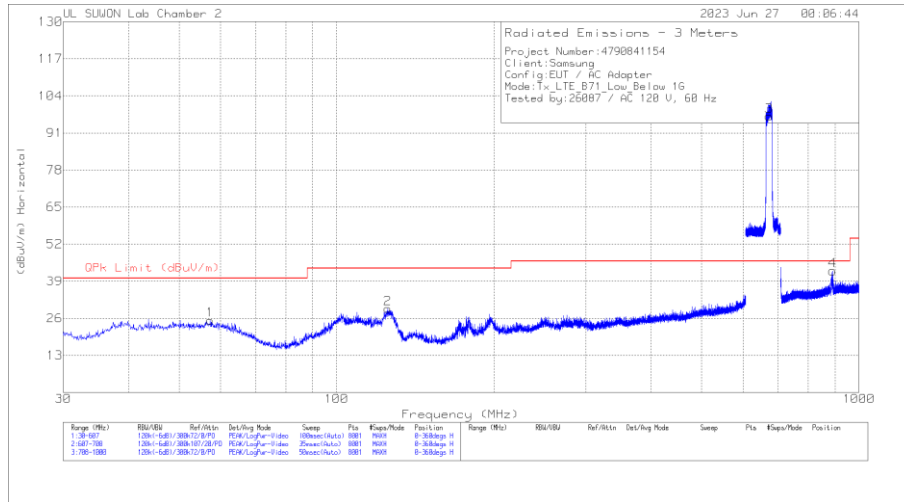
Qp - Quasi-Peak detector

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

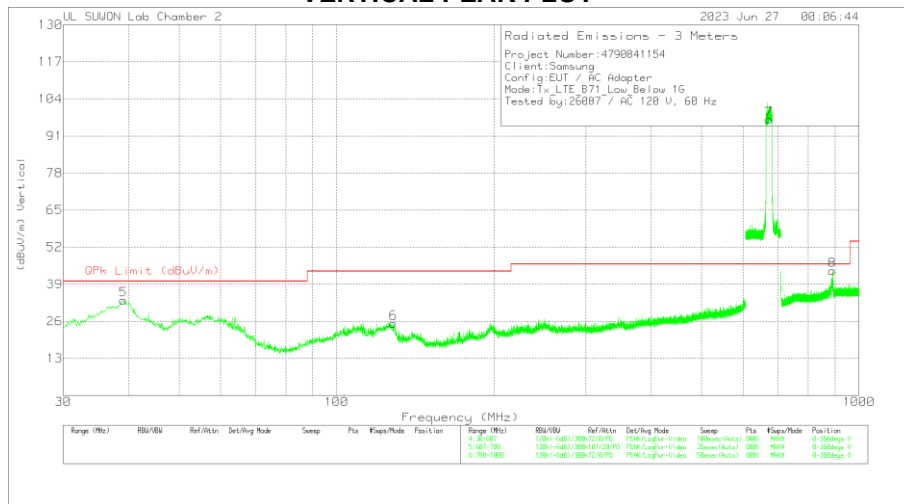
7.1.9. Below 1 GHz in the LTE Band 71

LOW CHANNEL(662.0 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	57.3354	5.23	Pk	19.2	.9	25.33	40	-14.67	0-360	100	H
2	125.3493	13.19	Pk	14.9	1.3	29.39	43.52	-14.13	0-360	100	H
3	673.0288	68.58	Pk	25.2	3.1	96.88	46.02	50.86	0-360	200	H
4	890.4635	11.63	Pk	27.5	3.5	42.63	46.02	-3.39	0-360	100	H
5	39.0878	14.38	Pk	18.4	.7	33.48	40	-6.52	0-360	200	V
6	128.5949	9.49	Pk	14.5	1.3	25.29	43.52	-18.23	0-360	200	V
7	673.0288	68.42	Pk	25.2	3.1	96.72	46.02	50.7	0-360	100	V
8	890.062	12.79	Pk	27.5	3.5	43.79	46.02	-2.23	0-360	400	V

Pk - Peak detector

Radiated Emissions

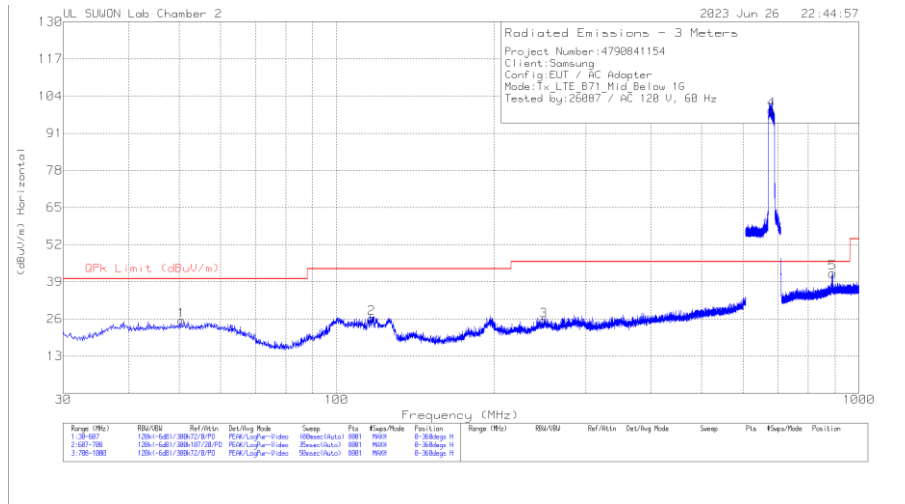
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
890.4635	6.81	Qp	27.5	3.5	37.81	46.02	-8.21	69	178	H
39.0878	10.3	Qp	18.4	.7	29.4	40	-10.6	100	100	V
890.062	7.29	Qp	27.5	3.5	38.29	46.02	-7.73	0	197	V

Qp - Quasi-Peak detector

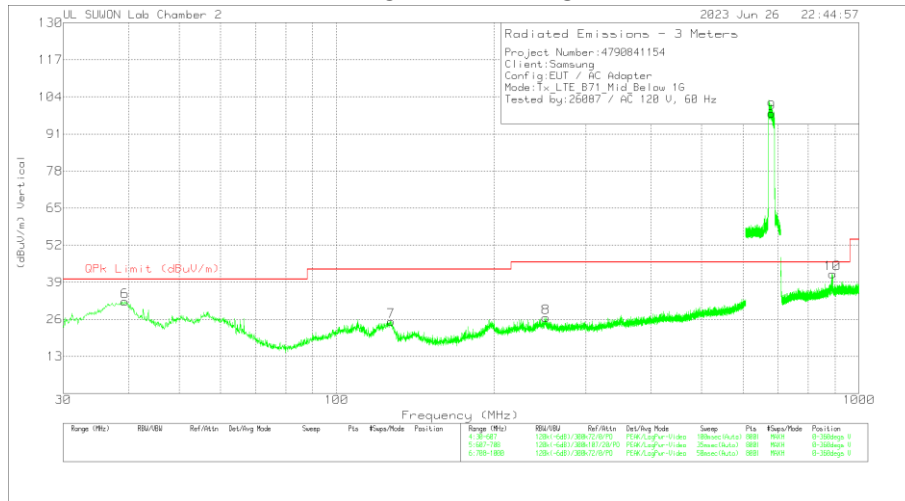
Note: Unwanted emissions captured from 663MHz to 698MHz and from 617MHz to 652MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(634.5 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	50.5556	4.59	Pk	20	.8	25.39	40	-14.61	0-360	200	H
2	116.7664	8.88	Pk	16	1.3	26.18	43.52	-17.34	0-360	200	H
3	249.1879	4.88	Pk	18.6	1.9	25.38	46.02	-20.64	0-360	200	H
4	680.5154	70.69	Pk	25.2	3.1	98.99	46.02	52.97	0-360	200	H
5	890.3175	10.98	Pk	27.5	3.5	41.98	46.02	-4.04	0-360	100	H
6	39.3763	13.08	Pk	18.5	.7	32.28	40	-7.72	0-360	200	V
7	127.2245	9.29	Pk	14.7	1.3	25.29	43.52	-18.23	0-360	200	V
8	251.7123	6.13	Pk	18.6	1.9	26.63	46.02	-19.39	0-360	200	V
9	680.5154	69.92	Pk	25.2	3.1	98.22	46.02	52.2	0-360	100	V
10	890.208	10.95	Pk	27.5	3.5	41.95	46.02	-4.07	0-360	300	V

Pk - Peak detector

Radiated Emissions

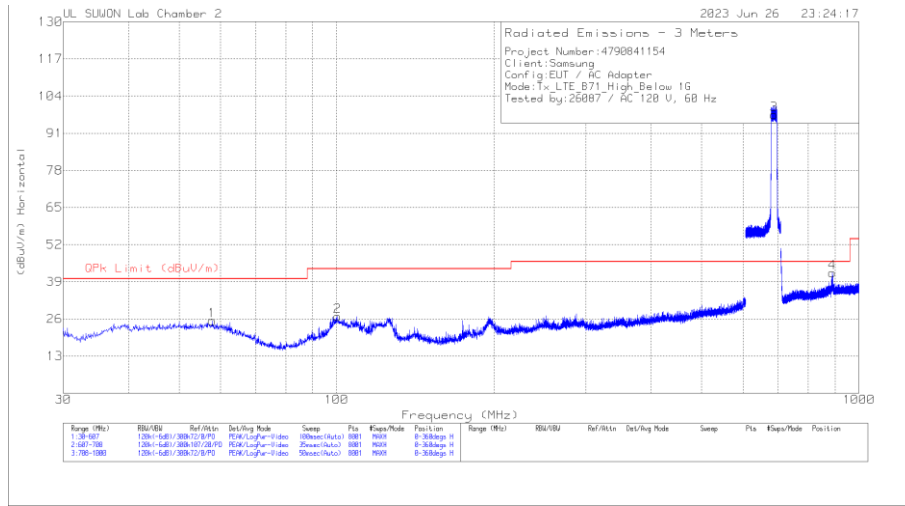
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_749	Below_1G_Bypass(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
890.3175	6.38	Qp	27.5	3.5	37.38	46.02	-8.64	139	208	H
890.3175	5.85	Qp	27.5	3.5	36.85	46.02	-9.17	102	303	V

Qp - Quasi-Peak detector

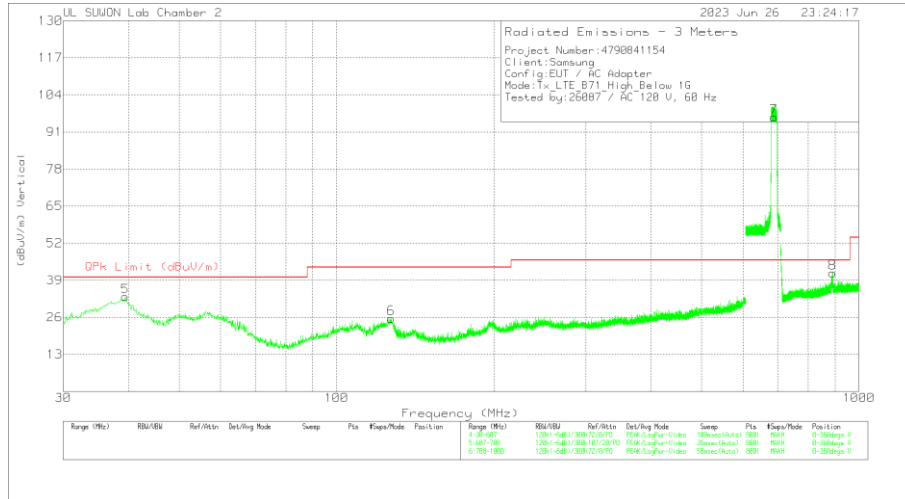
Note: Unwanted emissions captured from 663MHz to 698MHz and from 617MHz to 652MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(647.0 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	57.8403	5.34	Pk	19.1	.9	25.34	40	-14.66	0-360	300	H
2	100.5383	8.16	Pk	17.5	1.2	26.86	43.52	-16.66	0-360	200	H
3	688.0904	69.09	Pk	25.3	3.1	97.49	46.02	51.47	0-360	200	H
4	890.0255	11.15	Pk	27.5	3.5	42.15	46.02	-3.87	0-360	100	H
5	39.4484	14.03	Pk	18.5	.7	33.23	40	-6.77	0-360	200	V
6	127.1524	9.59	Pk	14.7	1.3	25.59	43.52	-17.93	0-360	200	V
7	688.0904	67.77	Pk	25.3	3.1	96.17	46.02	50.15	0-360	100	V
8	890.3175	10.57	Pk	27.5	3.5	41.57	46.02	-4.45	0-360	400	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
890.0255	5.26	Qp	27.5	3.5	36.26	46.02	-9.76	291	299	H
39.4484	10.97	Qp	18.5	.7	30.17	40	-9.83	87	102	V
890.3175	7.18	Qp	27.5	3.5	38.18	46.02	-7.84	50	206	V

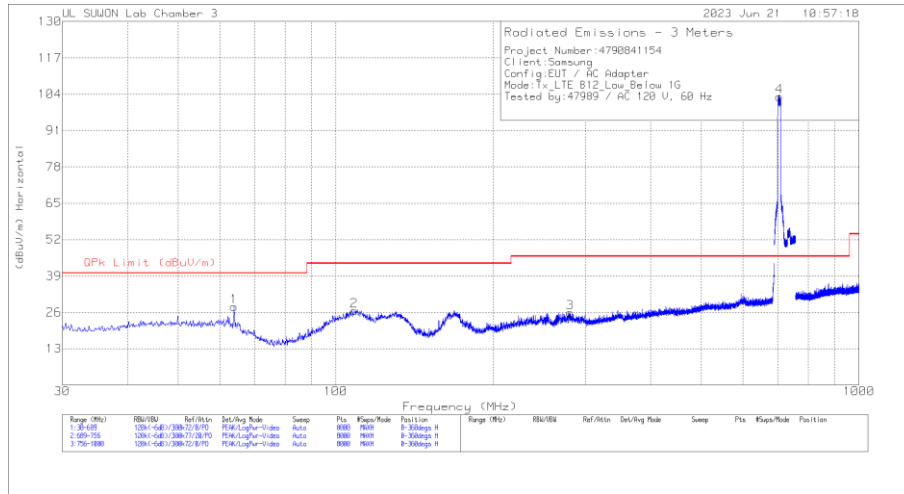
Qp - Quasi-Peak detector

Note: Unwanted emissions captured from 663MHz to 698MHz and from 617MHz to 652MHz were the TX and RX signals generated from the call-simulator.

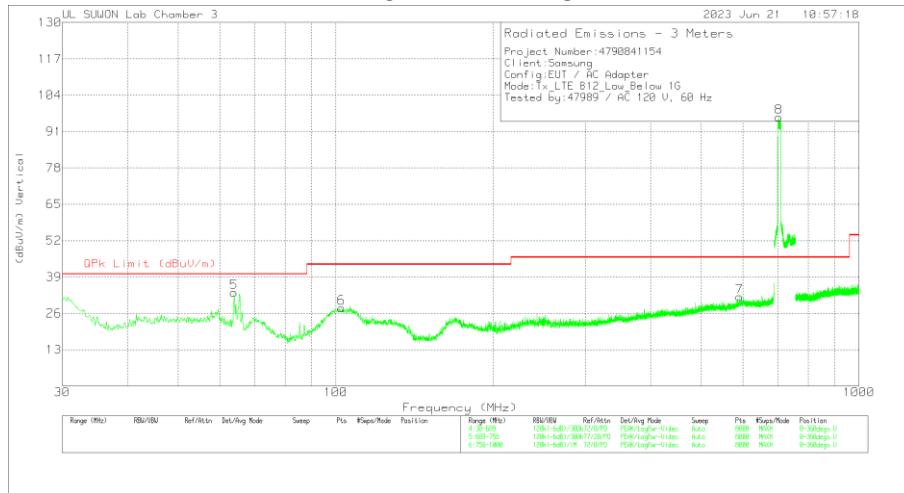
7.1.10. Below 1 GHz in the LTE Band 12

LOW CHANNEL(731.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

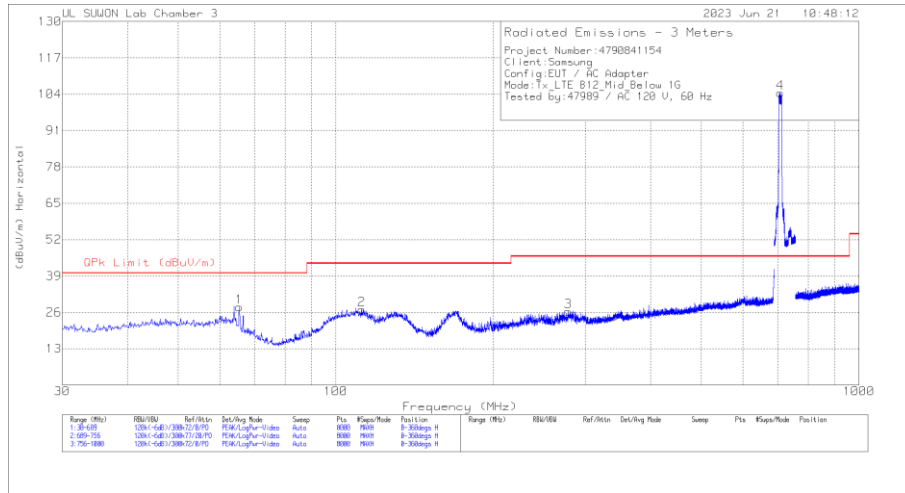
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_845	Below_1G_Bypass (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	63.9426	9.66	Pk	17.2	1.1	27.96	40	-12.04	0-360	300	H
2	108.5129	7.53	Pk	17.5	1.4	26.43	43.52	-17.09	0-360	200	H
3	280.6976	5.27	Pk	18.3	2.3	25.87	46.02	-20.15	0-360	100	H
4	704.3113	74.72	Pk	24.7	3.7	103.12	46.02	57.1	0-360	200	H
5	63.9426	15.16	Pk	17.2	1.1	33.46	40	-6.54	0-360	300	V
6	102.5812	9.14	Pk	17.4	1.4	27.94	43.52	-15.58	0-360	200	V
7	591.6185	4.4	Pk	24.2	3.4	32	46.02	-14.02	0-360	400	V
8	702.8078	67.72	Pk	24.7	3.7	96.12	46.02	50.1	0-360	100	V

Pk - Peak detector

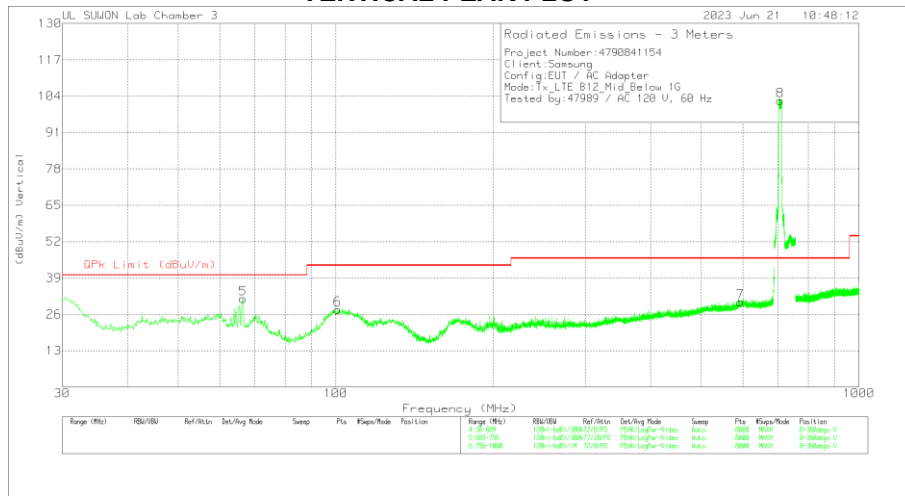
Note: Unwanted emissions captured from 699MHz to 716MHz and from 729MHz to 746MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(737.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

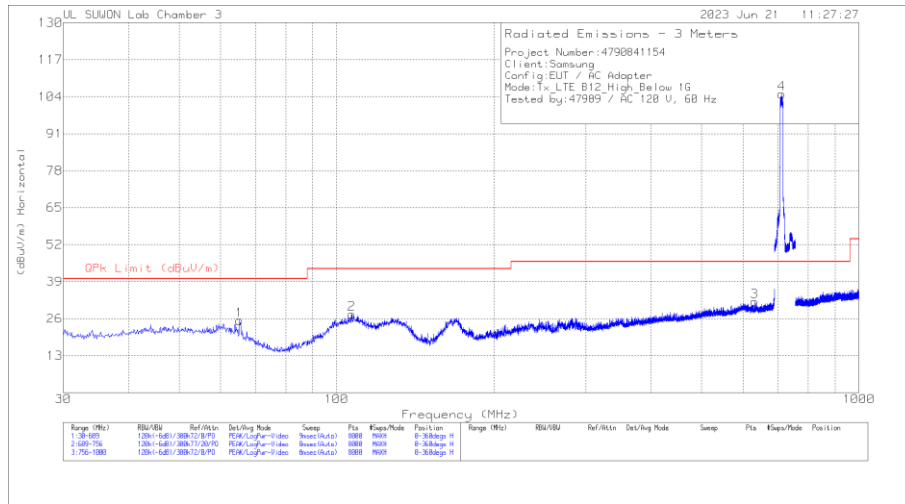
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_845	Below_1G_Bypass (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	65.3432	9.96	Pk	16.8	1.1	27.86	40	-12.14	0-360	400	H
2	112.0555	8.94	Pk	16.6	1.4	26.94	43.52	-16.58	0-360	400	H
3	278.3908	5.78	Pk	18.3	2.3	26.38	46.02	-19.64	0-360	200	H
4	707.9465	76.13	Pk	24.7	3.7	104.53	46.02	58.51	0-360	100	H
5	66.4142	14.14	PK	16.4	1.1	31.64	40	-8.36	0-360	100	V
6	100.9335	9.17	Pk	17.3	1.3	27.77	43.52	-15.75	0-360	100	V
7	593.5958	2.84	Pk	24.2	3.4	30.44	46.02	-15.58	0-360	200	V
8	707.9465	74.05	Pk	24.7	3.7	102.45	46.02	56.43	0-360	200	V

Pk - Peak detector

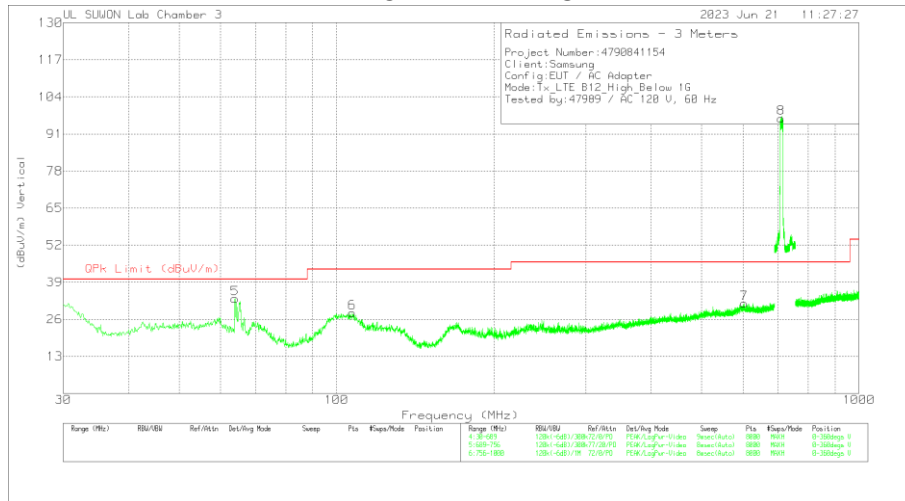
Note: Unwanted emissions captured from 699MHz to 716MHz and from 729MHz to 746MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(743.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_845	Below_1G_Bypass (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	65.1784	7.47	Pk	16.8	1.1	25.37	40	-14.63	0-360	200	H
2	107.03	8.61	Pk	17.6	1.4	27.61	43.52	-15.91	0-360	200	H
3	630.9986	4.27	Pk	24.3	3.5	32.07	46.02	-13.95	0-360	100	H
4	711.2048	76.58	Pk	24.7	3.7	104.98	46.02	58.96	0-360	200	H
5	63.9426	14.89	Pk	17.2	1.1	33.19	40	-6.81	0-360	200	V
6	107.2771	9.3	Pk	17.6	1.4	28.3	43.52	-15.22	0-360	200	V
7	603.0701	3.77	Pk	24.4	3.4	31.57	46.02	-14.45	0-360	300	V
8	710.0238	68.07	Pk	24.7	3.7	96.47	46.02	50.45	0-360	100	V

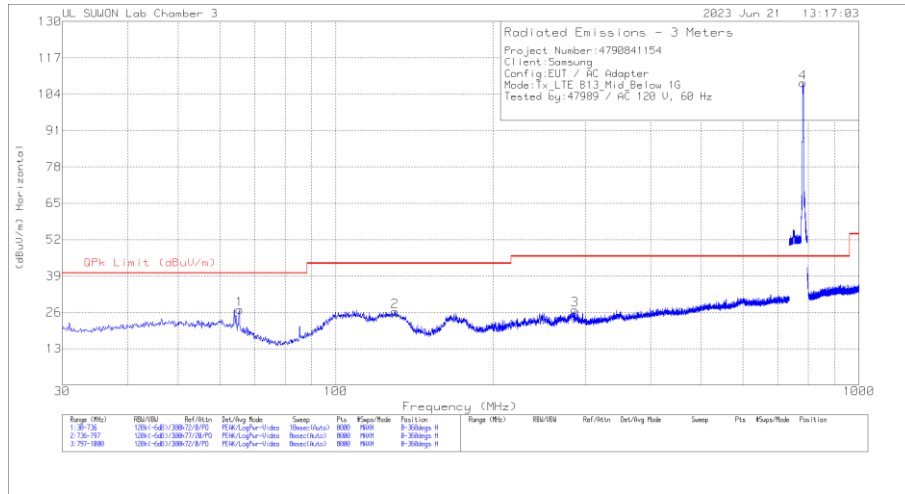
Pk - Peak detector

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

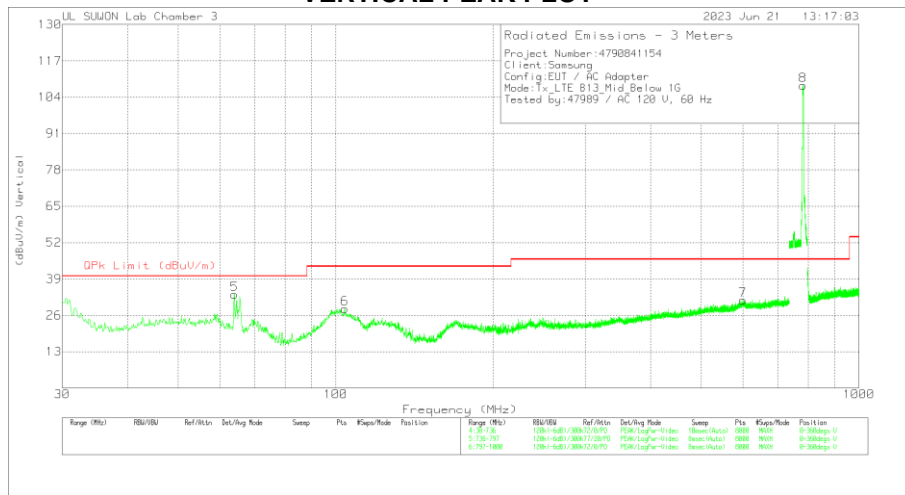
7.1.11. Below 1 GHz in the LTE Band 13

MID CHANNEL(751.0 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_845	Below_1G_Bypass (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	65.4809	9.23	Pk	16.7	1.1	27.03	40	-12.97	0-360	300	H
2	129.8232	10.43	Pk	14.4	1.5	26.33	43.52	-17.19	0-360	100	H
3	286.5747	6.12	Pk	18.5	2.3	26.92	46.02	-19.1	0-360	100	H
4	782.0153	78.18	Pk	25.9	3.9	107.98	46.02	61.96	0-360	100	H
5	63.9805	15.14	Pk	17.2	1.1	33.44	40	-6.56	0-360	100	V
6	103.9627	9.43	Pk	17.5	1.4	28.33	43.52	-15.19	0-360	100	V
7	599.6365	3.65	Pk	24.3	3.4	31.35	46.02	-14.67	0-360	300	V
8	782.6177	78.51	Pk	25.8	3.9	108.21	46.02	62.19	0-360	300	V

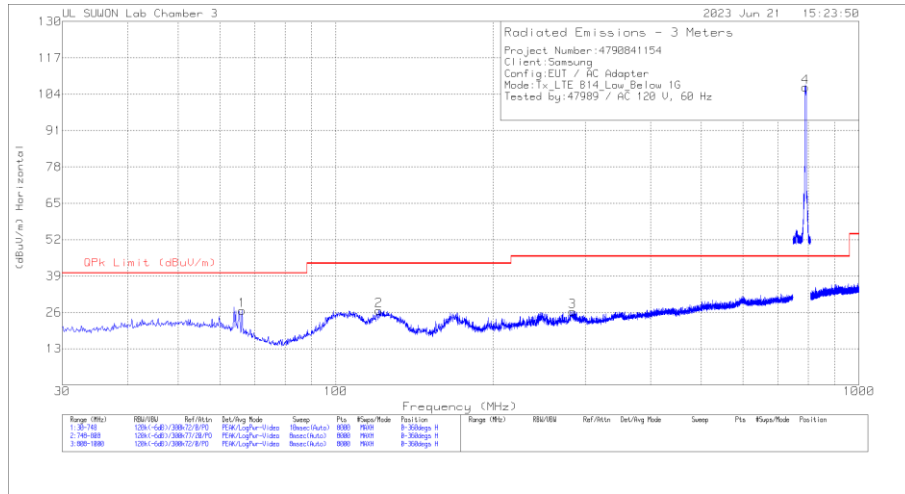
Pk - Peak detector

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

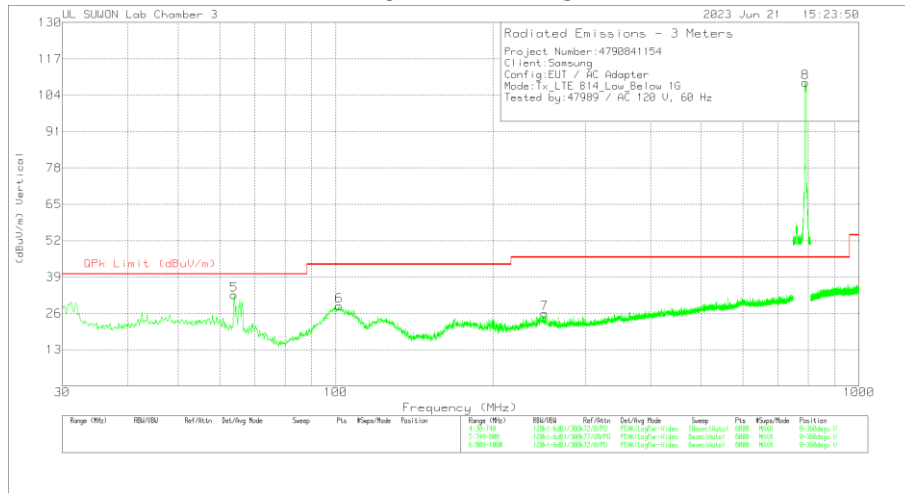
7.1.12. Below 1 GHz in the LTE Band 14

LOW CHANNEL(760.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

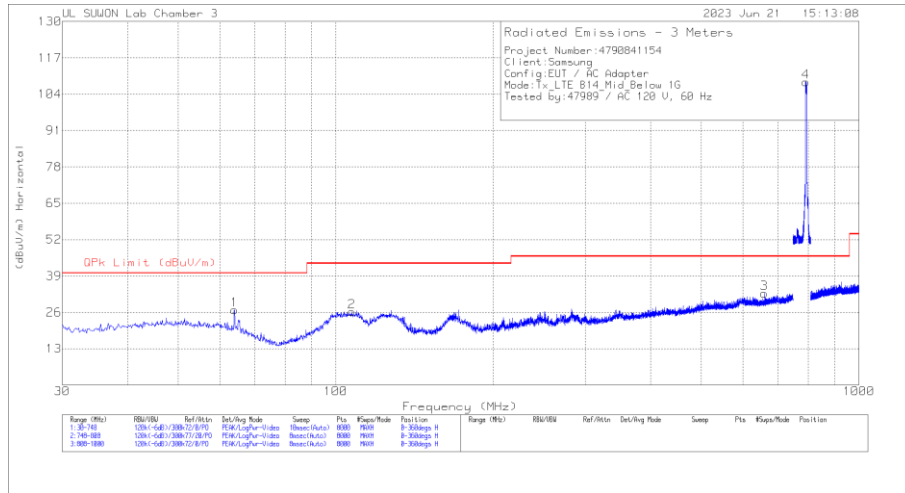
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_845	Below_1G_Bypass (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	66.2634	9.21	Pk	16.4	1.1	26.71	40	-13.29	0-360	200	H
2	120.9279	9.74	Pk	15.5	1.5	26.74	43.52	-16.78	0-360	200	H
3	283.3953	5.58	Pk	18.4	2.3	26.28	46.02	-19.74	0-360	100	H
4	790.4182	76.67	Pk	25.9	3.9	106.47	46.02	60.45	0-360	200	H
5	63.8399	14.37	Pk	17.2	1.1	32.67	40	-7.33	0-360	200	V
6	101.4498	10.01	Pk	17.3	1.4	28.71	43.52	-14.81	0-360	200	V
7	250.9018	5.54	Pk	18.3	2.2	26.04	46.02	-19.98	0-360	200	V
8	789.8856	78.79	Pk	25.9	3.9	108.59	46.02	62.57	0-360	100	V

Pk - Peak detector

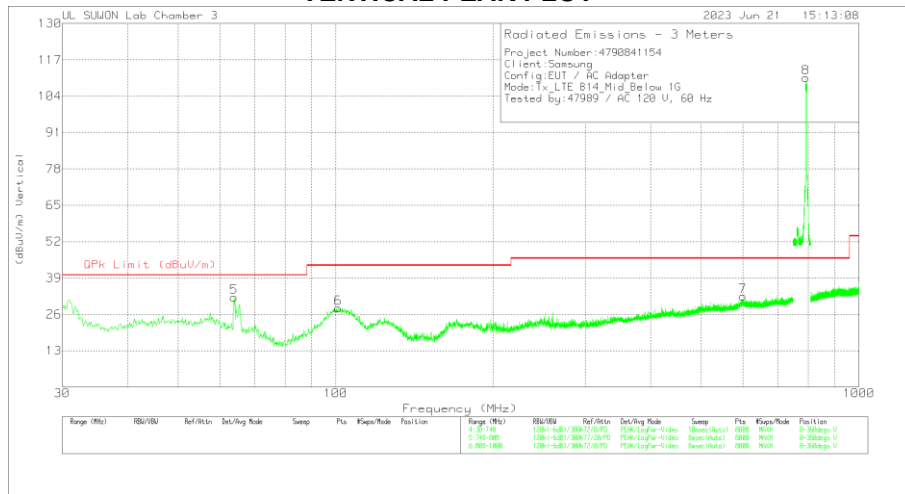
Note: Unwanted emissions captured from 788MHz to 798MHz and from 758MHz to 768MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(763.0 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

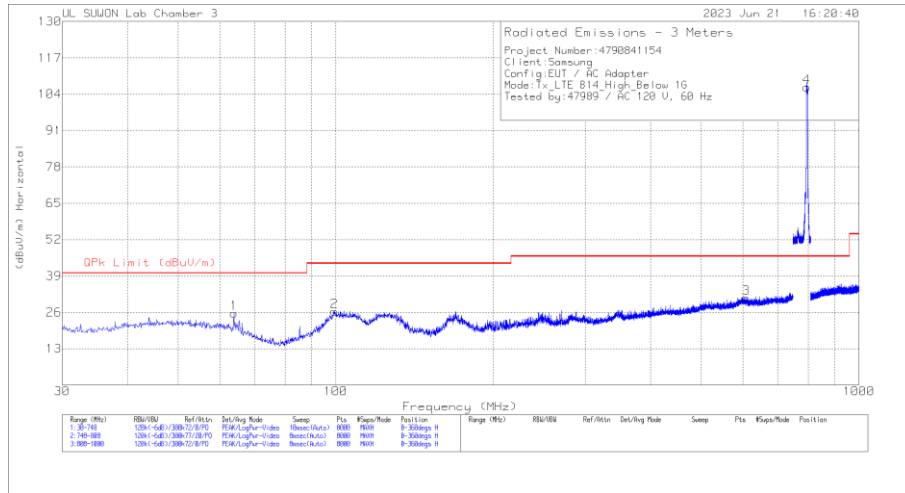
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_845	Below_1G_Bypass (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	64.0194	8.52	Pk	17.2	1.1	26.82	40	-13.18	0-360	200	H
2	107.2842	7.22	Pk	17.6	1.4	26.22	43.52	-17.3	0-360	200	H
3	658.9553	4.98	Pk	24.3	3.5	32.78	46.02	-13.24	0-360	300	H
4	792.5259	78.56	Pk	25.9	3.9	108.36	46.02	62.34	0-360	200	H
5	63.8399	13.83	PK	17.2	1.1	32.13	40	-7.87	0-360	200	V
6	101.001	9.49	Pk	17.3	1.4	28.19	43.52	-15.33	0-360	100	V
7	600.6107	4.73	Pk	24.3	3.4	32.43	46.02	-13.59	0-360	200	V
8	791.1683	80.78	Pk	25.9	3.9	110.58	46.02	64.56	0-360	100	V

Pk - Peak detector

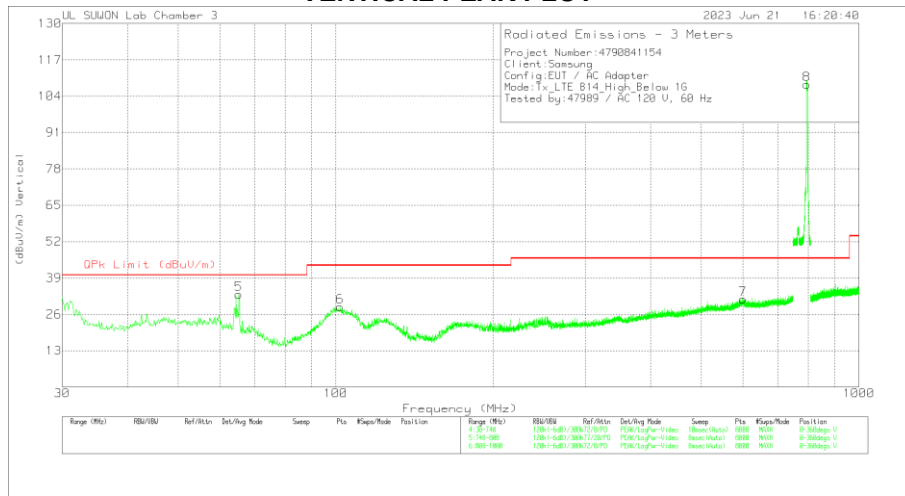
Note: Unwanted emissions captured from 788MHz to 798MHz and from 758MHz to 768MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(765.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_845	Below_1G_Bypass (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	63.8399	7.3	Pk	17.2	1.1	25.6	40	-14.4	0-360	200	H
2	99.475	7.88	Pk	17.2	1.3	26.38	43.52	-17.14	0-360	200	H
3	609.138	3.26	Pk	24.4	3.4	31.06	46.02	-14.96	0-360	200	H
4	795.8076	76.7	Pk	25.9	3.9	106.5	46.02	60.48	0-360	200	H
5	65.2761	15.29	Pk	16.8	1.1	33.19	40	-6.81	0-360	100	V
6	101.8986	9.97	Pk	17.4	1.4	28.77	43.52	-14.75	0-360	100	V
7	600.0721	3.7	Pk	24.3	3.4	31.4	46.02	-14.62	0-360	100	V
8	795.6539	78.38	Pk	25.9	3.9	108.18	46.02	62.16	0-360	100	V

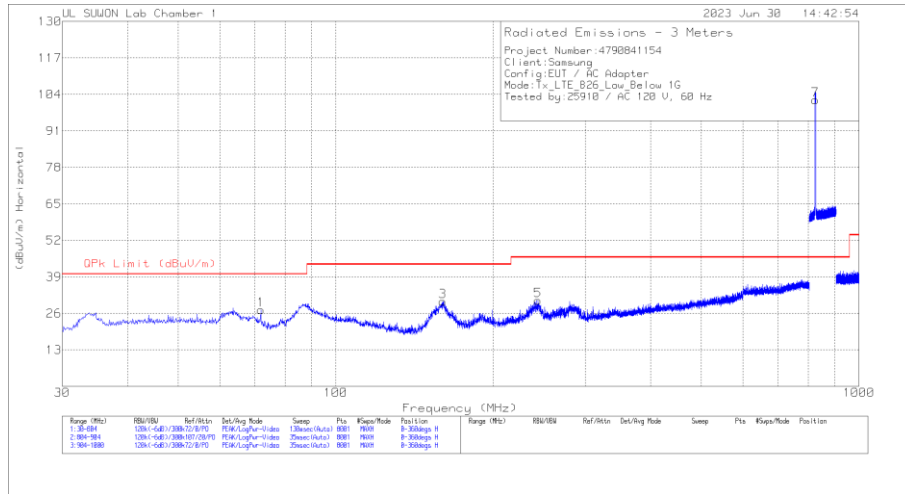
Pk - Peak detector

Note: Unwanted emissions captured from 788MHz to 798MHz and from 758MHz to 768MHz were the TX and RX signals generated from the call-simulator.

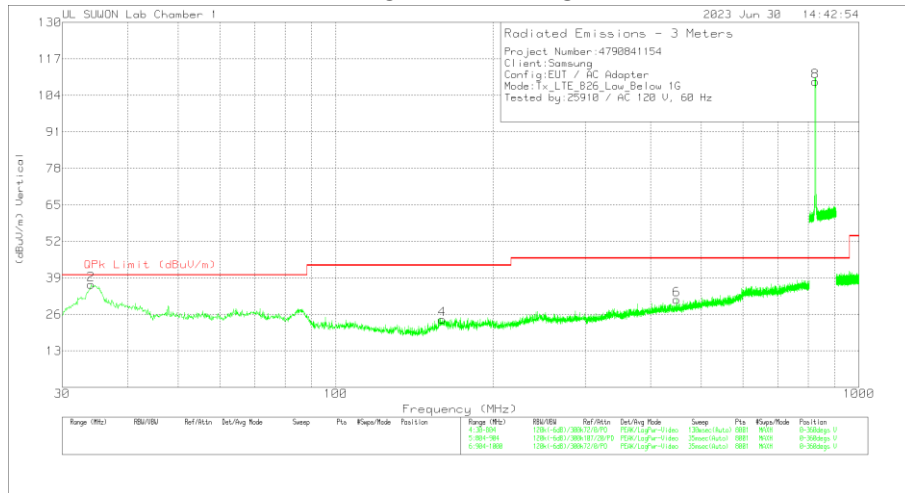
7.1.13. Below 1 GHz in the LTE Band 26

LOW CHANNEL(871.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	71.8928	11.24	Pk	14.2	1.8	27.24	40	-12.76	0-360	300	H
3	160.1288	13.53	Pk	14.2	2.6	30.33	43.52	-13.19	0-360	200	H
5	243.4305	9.46	Pk	17.9	3.3	30.66	46.02	-15.36	0-360	200	H
7	825.5	69.96	Pk	26.1	6	102.06	46.02	56.04	0-360	100	H
2	34.0635	19.39	Pk	16.1	1.2	36.69	40	-3.31	0-360	100	V
4	159.8385	7.4	Pk	14.2	2.6	24.2	43.52	-19.32	0-360	200	V
6	448.6373	5.53	Pk	21.4	4.4	31.33	46.02	-14.69	0-360	300	V
8	825.5	76.81	Pk	26.1	6	108.91	46.02	62.89	0-360	300	V

Pk - Peak detector

Radiated Emissions

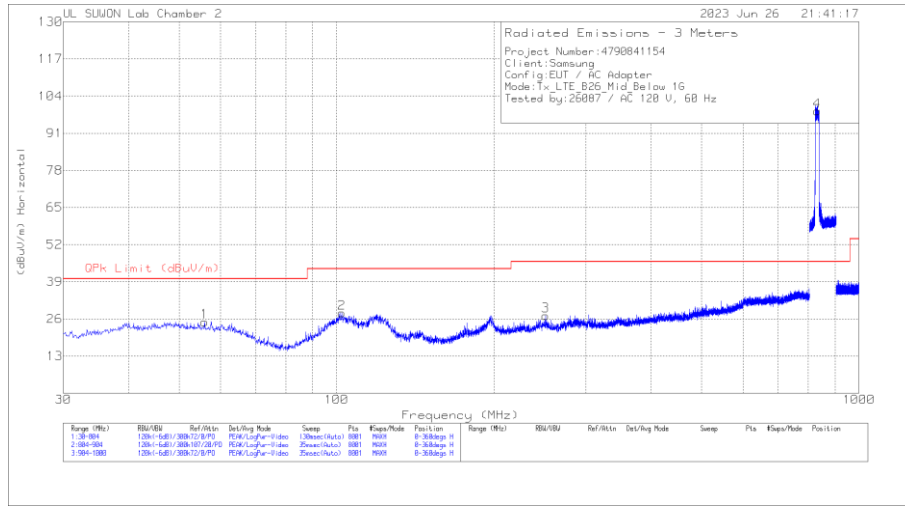
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
34.0635	16.47	Qp	16.1	1.2	33.77	40	-6.23	71	100	V

Qp - Quasi-Peak detector

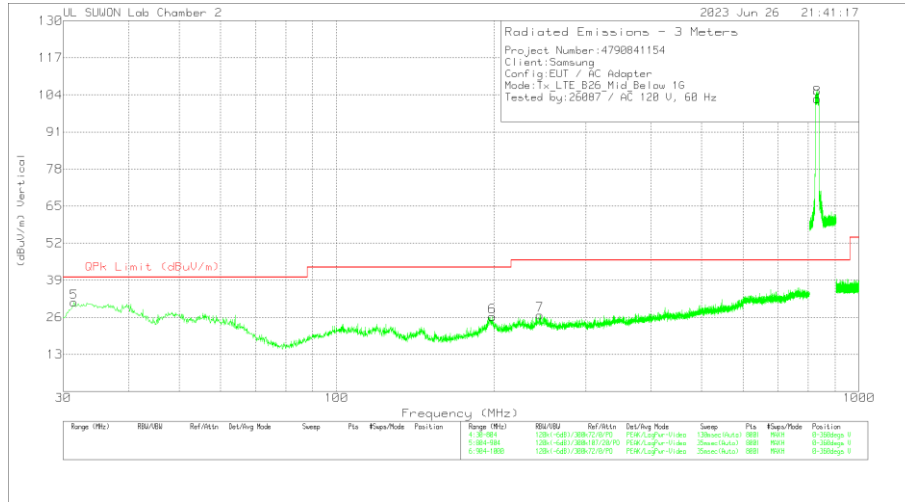
Note: Unwanted emissions captured from 814MHz to 849MHz and from 859MHz to 894MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(876.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

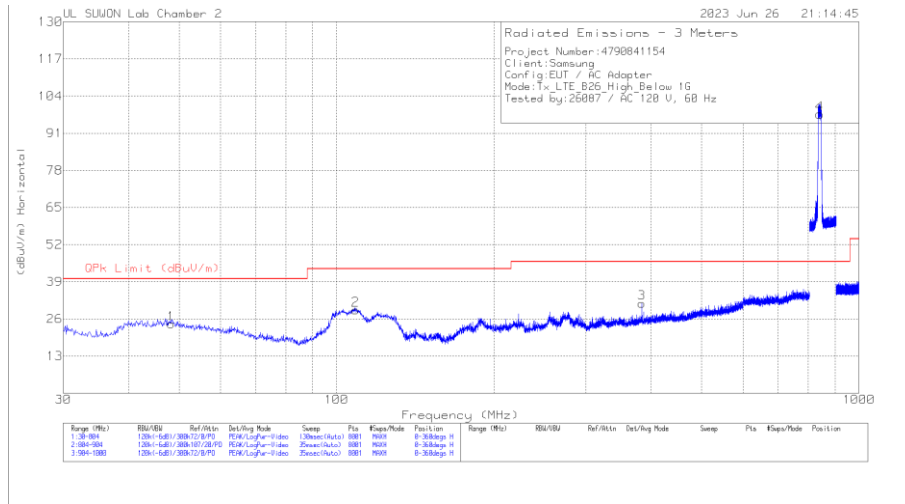
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_845	Below_1G_Bypass (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	71.7044	14.58	Pk	14.3	1.1	29.98	40	-10.02	0-360	200	H
3	122.698	9.48	Pk	15.3	1.5	26.28	43.52	-17.24	0-360	100	H
5	238.1351	7.03	Pk	17.7	2.1	26.83	46.02	-19.19	0-360	100	H
7	831.5044	71.57	Pk	26.2	4	101.77	46.02	55.75	0-360	200	H
2	31.0644	15.25	Pk	15.6	.7	31.55	40	-8.45	0-360	200	V
4	47.7074	8.52	Pk	19.8	.9	29.22	40	-10.78	0-360	200	V
6	71.656	15.88	Pk	14.3	1.1	31.28	40	-8.72	0-360	200	V
8	831.5044	74.31	Pk	26.2	4	104.51	46.02	58.49	0-360	100	V

Pk - Peak detector

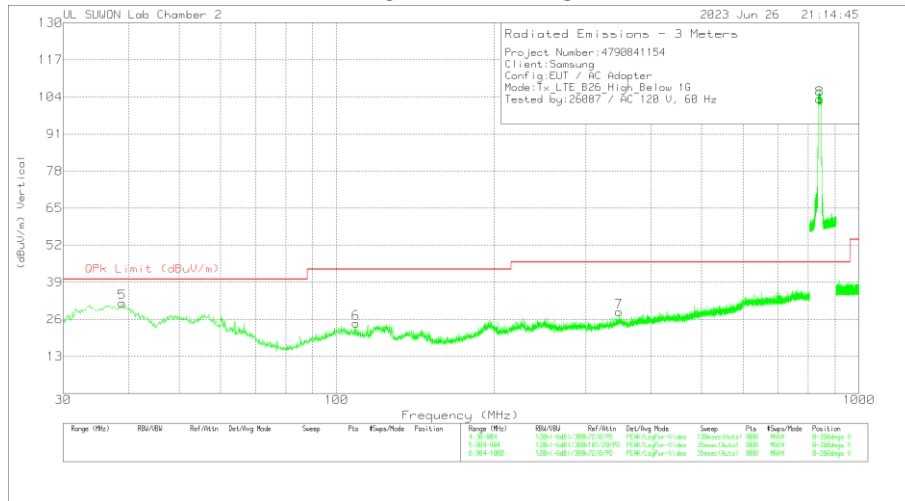
Note: Unwanted emissions captured from 814MHz to 849MHz and from 859MHz to 894MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(891.5 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	48.2858	3.35	Pk	20.1	.8	24.25	40	-15.75	0-360	300	H
2	108.7545	10.51	Pk	17.4	1.2	29.11	43.52	-14.41	0-360	200	H
3	383.9115	8.27	Pk	20.9	2.3	31.47	46.02	-14.55	0-360	100	H
4	841.55	67.58	Pk	26.7	3.4	97.68	46.02	51.66	0-360	300	H
5	38.901	12.72	Pk	18.4	.7	31.82	40	-8.18	0-360	200	V
6	109.0448	6.01	Pk	17.4	1.2	24.61	43.52	-18.91	0-360	200	V
7	347.2433	5.73	Pk	20.7	2.2	28.63	46.02	-17.39	0-360	300	V
8	841.55	73.1	Pk	26.7	3.4	103.2	46.02	57.18	0-360	100	V

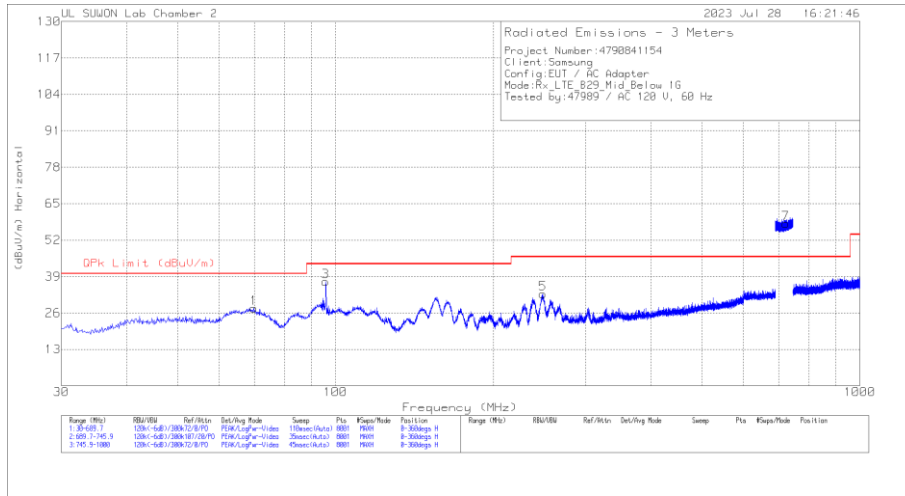
Pk - Peak detector

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

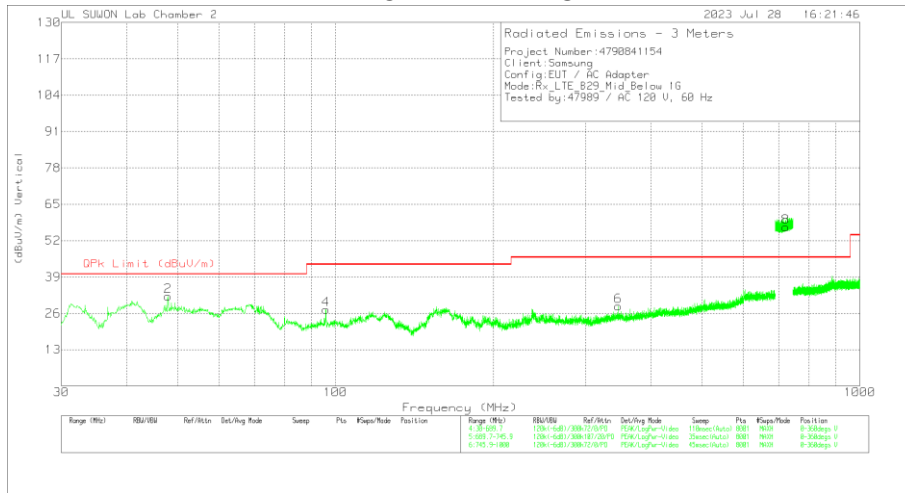
7.1.14. Below 1 GHz in the LTE Band 29 (Downlink CA)

Mid CHANNEL(772.7 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	69.8296	11.15	Pk	15.6	1	27.75	40	-12.25	0-360	200	H
3	95.8055	19.25	Pk	16.8	1.1	37.15	43.52	-6.37	0-360	200	H
5	248.362	12.31	Pk	18.5	1.9	32.71	46.02	-13.31	0-360	100	H
7	722.7105	29.33	Pk	25.4	3.2	57.93	46.02	11.91	0-360	300	H
2	47.8945	11.23	Pk	20.1	.8	32.13	40	-7.87	0-360	100	V
4	95.8879	9.47	Pk	16.8	1.1	27.37	43.52	-16.15	0-360	300	V
6	346.2456	5.76	Pk	20.6	2.2	28.56	46.02	-17.46	0-360	100	V
8	722.7105	28.2	Pk	25.4	3.2	56.8	46.02	10.78	0-360	300	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
95.8055	4.79	Qp	16.8	1.1	22.69	43.52	-20.83	351	210	H

Qp - Quasi-Peak detector

Note: Unwanted emissions captured from 722.7 MHz were the RX signals generated from the call-simulator.

7.2. CONDUCTED EMISSIONS

TEST PROCEDURE

ANSI C63.4-2014

LIMIT

§15.107 (a) Except for Class A digital devices, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges.

Frequency range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

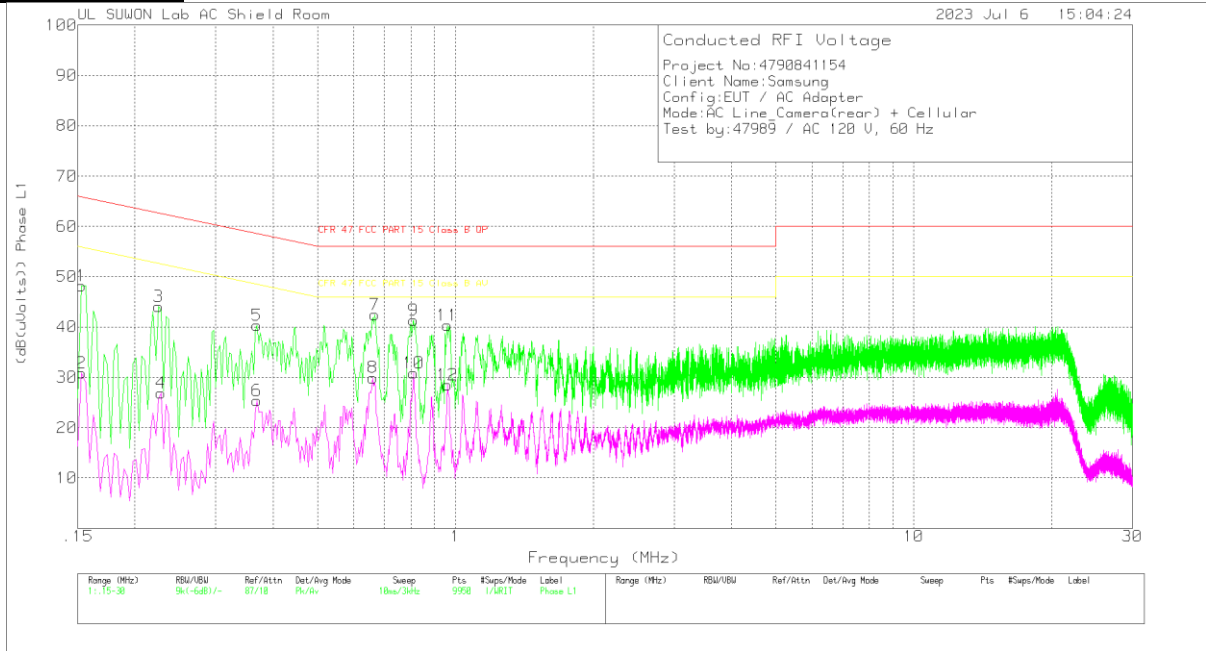
Notes:
1. The lower limit shall apply at the transition frequencies
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

7.2.1 CONDUCTED EMISSIONS

6 WORST EMISSIONS(GSM850 + Rear camera on)

Line-L1 .15 – 30 MHz

LINE 1 RESULTS



Trace Markers

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_AU TO_With EX_L1[dB]	CABLELOS S[dB]	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
1	.153	38.54	Pk	9.5	.1	48.14	65.84	-17.7	-	-
2	.153	21.29	Av	9.5	.1	30.89	-	-	55.84	-24.95
3	.225	34.33	Pk	9.5	.2	44.03	62.63	-18.6	-	-
4	.228	17.23	Av	9.5	.2	26.93	-	-	52.52	-25.59
5	.369	30.68	Pk	9.5	.2	40.38	58.52	-18.14	-	-
6	.369	15.71	Av	9.5	.2	25.41	-	-	48.52	-23.11
7	.666	32.64	Pk	9.6	.2	42.44	56	-13.56	-	-
8	.66	20.13	Av	9.6	.2	29.93	-	-	46	-16.07
9	.81	31.5	Pk	9.6	.2	41.3	56	-14.7	-	-
10	.81	21.06	Av	9.6	.2	30.86	-	-	46	-15.14
11	.96	30.38	Pk	9.6	.3	40.28	56	-15.72	-	-
12	.96	18.55	Av	9.6	.3	28.45	-	-	46	-17.55

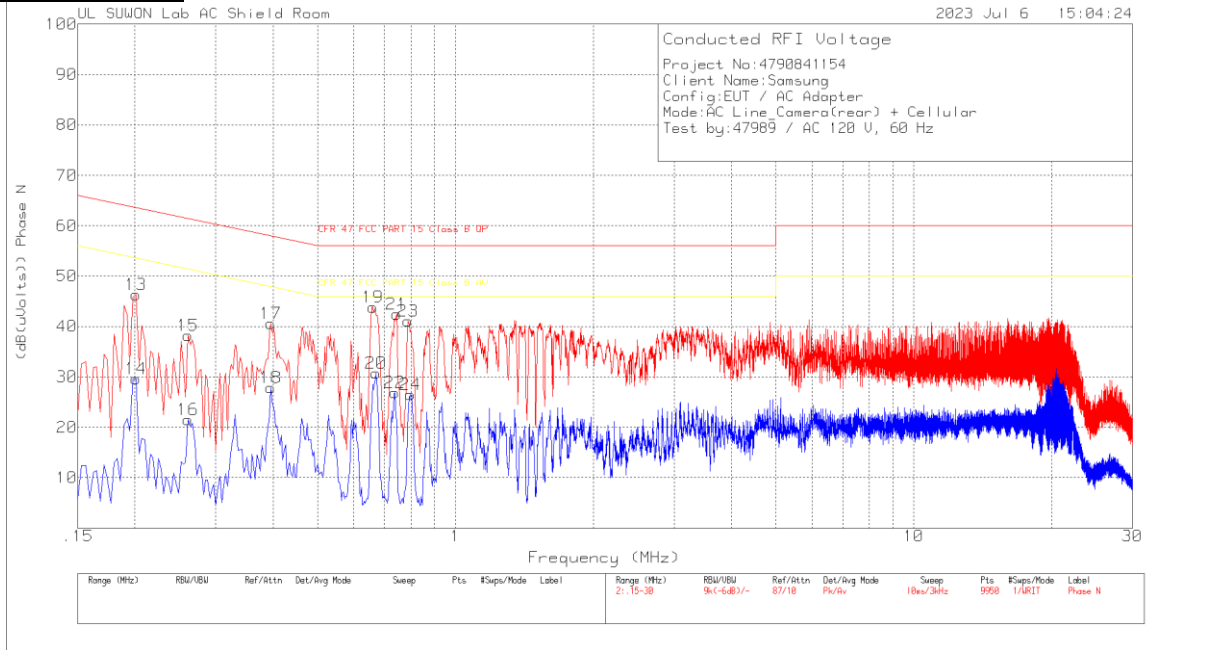
Pk - Peak detector

Av - Average detection

6 WORST EMISSIONS(GSM850 + Rear camera on)

Line-L2 .15 – 30 MHz

LINE 2 RESULTS



Trace Markers

Range 2: Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_AU TO_With EX_N[dB]	CABLELOS S[dB]	Corrected Reading (dB(uVolts))	CFR 47 FCC PART 15 Class B QP	Margin (dB)	CFR 47 FCC PART 15 Class B AV	Margin (dB)
13	.201	36.62	Pk	9.5	.2	46.32	63.57	-17.25	-	-
14	.201	19.95	Av	9.5	.2	29.65	-	-	53.57	-23.92
15	.261	28.55	Pk	9.5	.2	38.25	61.4	-23.15	-	-
16	.261	11.76	Av	9.5	.2	21.46	-	-	51.4	-29.94
17	.396	30.86	Pk	9.5	.2	40.56	57.94	-17.38	-	-
18	.396	18.18	Av	9.5	.2	27.88	-	-	47.94	-20.06
19	.66	34.06	Pk	9.6	.2	43.86	56	-12.14	-	-
20	.672	20.96	Av	9.6	.2	30.76	-	-	46	-15.24
21	.744	32.68	Pk	9.6	.2	42.48	56	-13.52	-	-
22	.738	17.13	Av	9.6	.2	26.93	-	-	46	-19.07
23	.789	31.33	Pk	9.6	.2	41.13	56	-14.87	-	-
24	.798	16.69	Av	9.6	.2	26.49	-	-	46	-19.51

Pk - Peak detector
 Av - Average detection

END OF TEST REPORT