

CERTIFICATION TEST REPORT

Report Number. : 4790976523-E1V2

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

Model : SM-S921U, SM-S921U1

FCC ID : A3LSMS921U

EUT Description : GSM/WCDMA/LTE 5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax,
NFC and WPT

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

Date Of Issue:
2023-10-30

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Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V1	2023-10-26	Initial issue	Yeonhee Lim
V2	2023-10-30	Updated to address TCB's question	Yeonhee Lim

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.
EUT DESCRIPTION: GSM/WCDMA/LTE 5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax, NFC and WPT
MODEL NUMBER: SM-S921U, SM-S921U1
SERIAL NUMBER: R3CW80J5ERY, R3CW70MML7T, R3CW70MML4D, R3CW70MML8Y (RADIATED)
DATE TESTED: 2023-10-15 ~ 2023-10-26

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:



Dexter(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(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 Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax, NFC and WPT. This test report addresses the WWAN Receiver mode.

Representative model	Difference	Derivative model
		SM-S921U1
SM-S921U	Hardware	Same
	Software	The UI has changed according to Service Provider

The model SM-S921U was used for final testing and is representative of the test results in this report.

5.2. TEST MODE

Mode	Description
GSM850	Communicating with Call simulator(CMW500)
WCDMA BAND 5	
LTE BAND 12	
LTE BAND 13	
LTE BAND 14	
LTE BAND 26	
LTE BAND 29(Downlink CA)	
LTE BAND 71	
5G NR n5	Communicating with Call simulator(UXM 5G)

5.3. WORST-CASE ORIENTATION AND MODE

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.

Worst Axis Condition:

Band	Worst Case		
	X	Y	Z
GSM 850	-	-	O
WCDMA B5	-	-	O
LTE B12	-	-	O
LTE B13	-	O	-
LTE B14	-	-	O
LTE B26	-	-	O
LTE B29 (Downlink CA)	-	-	O
LTE B71	-	-	O
5G NR n5	-	-	O

WCDMA Band 5

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 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 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 n26

5G NR BAND n26 (Rx Frequency range: 859-894 MHz) is covered by LTE B26 (Rx Frequency range: 859-894 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	R37T53J8459SEA	N/A
Data Cable	SAMSUNG	EP-DN980	GH39-02111A	N/A

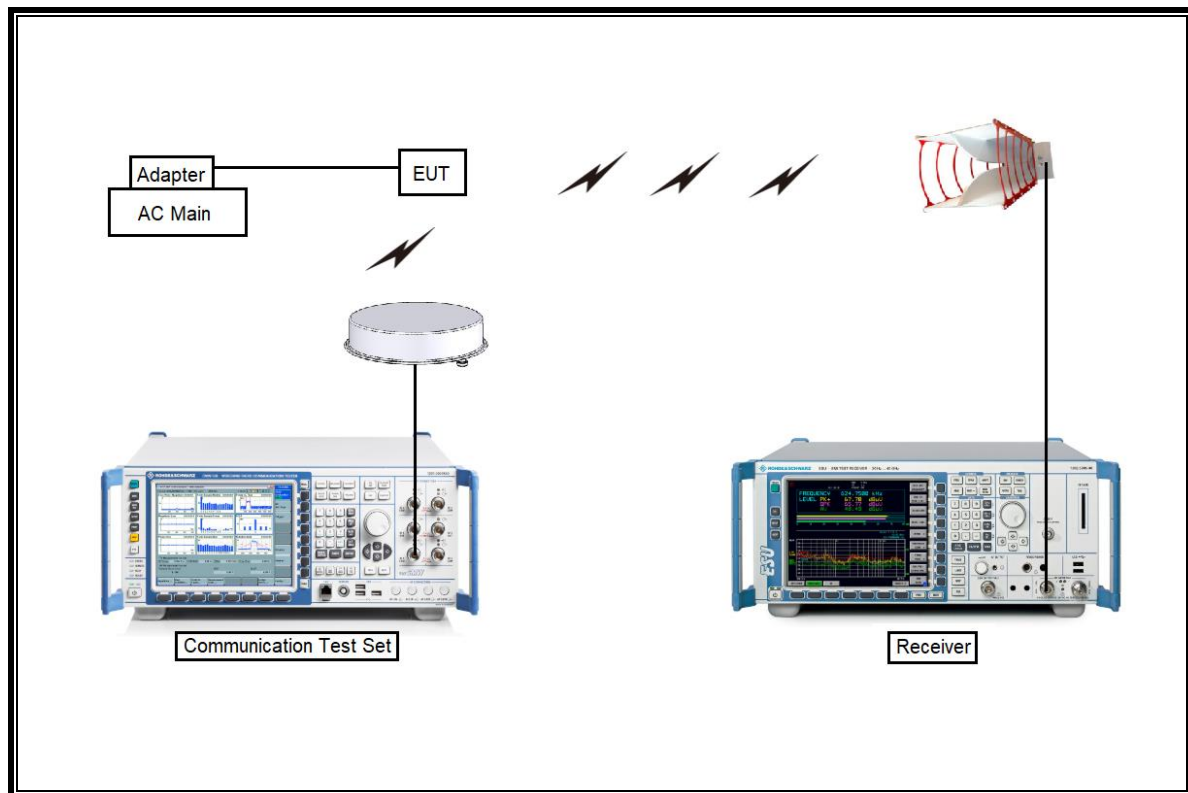
I/O CABLE

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, Horn, 40 GHz	ETS	3116C	00166155	2024-08-02
Antenna, Horn, 40 GHz	ETS	3116C	00168645	2023-10-13
Preamplifier	ETS	3115-PA	00167475	2024-07-24
Preamplifier	ETS	3116C-PA	00168841	2024-07-24
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
Antenna, Horn, 18 GHz	ETS	3115	00167211	2024-08-04
Antenna, Horn, 18 GHz	ETS	3115	00161451	2024-08-21
Antenna, Horn, 18 GHz	ETS	3117	00168724	2024-08-04
Antenna, Horn, 18 GHz	ETS	3117	00168717	2024-08-21
Antenna, Horn, 18 GHz	ETS	3117	00218597	2025-01-08
Preamplifier, 1000 MHz	Sonoma	310N	341282	2024-07-23
Preamplifier, 1000 MHz	Sonoma	310N	370599	2024-07-24
Preamplifier, 1000 MHz	Sonoma	310N	351741	2024-07-23
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	2029169	2024-07-23
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1896138	2024-07-24
EMI Test Receive, 40 GHz	R&S	ESU40	100439	2024-07-23
EMI Test Receive, 40 GHz	R&S	ESU40	100457	2024-07-24
EMI Test Receive, 44 GHz	R&S	ESW44	101590	2024-07-25
EMI Test Receive, 3 GHz	R&S	ESR3	101832	2024-07-23
LISN	R&S	ENV-216	101836	2024-07-23
LISN	R&S	ENV-216	101837	2024-07-23
Communications Test Set	R&S	CMW500	169796	2024-01-05
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY58010202	2024-01-27
Directional Antenna	Cobham	FPA3-0.8-6.0R/1329	80108-0004	N/A
High Pass Filter 1.2GHz	Micro-Tronics	HPM50108-02	G005	2024-07-23
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

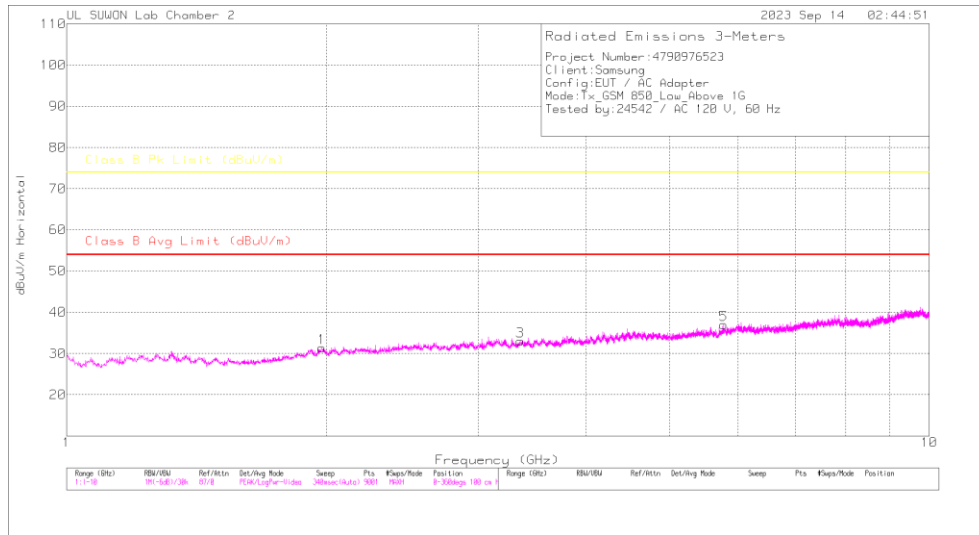
§15.109 (a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

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.	

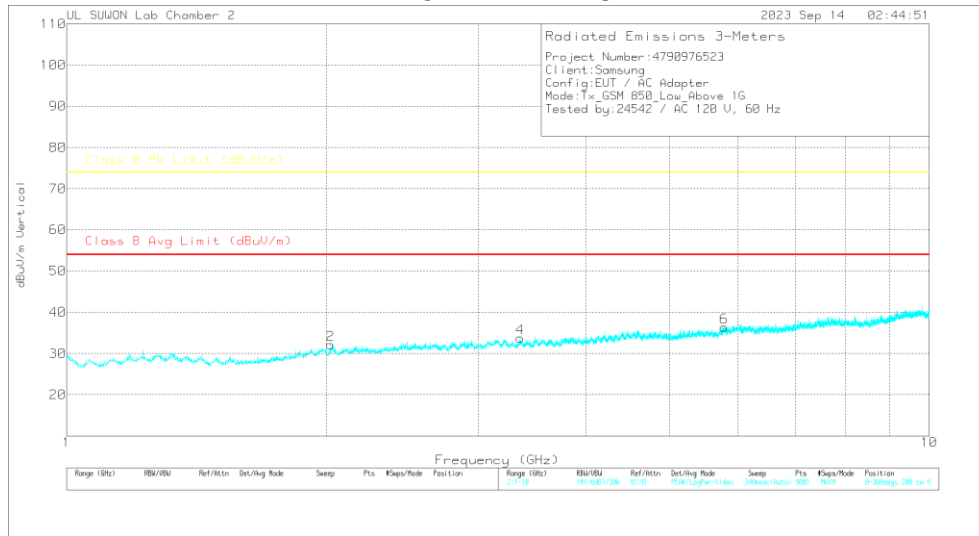
7.1.1. Above 1 GHz in the GSM850

LOW CHANNEL(869.2 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

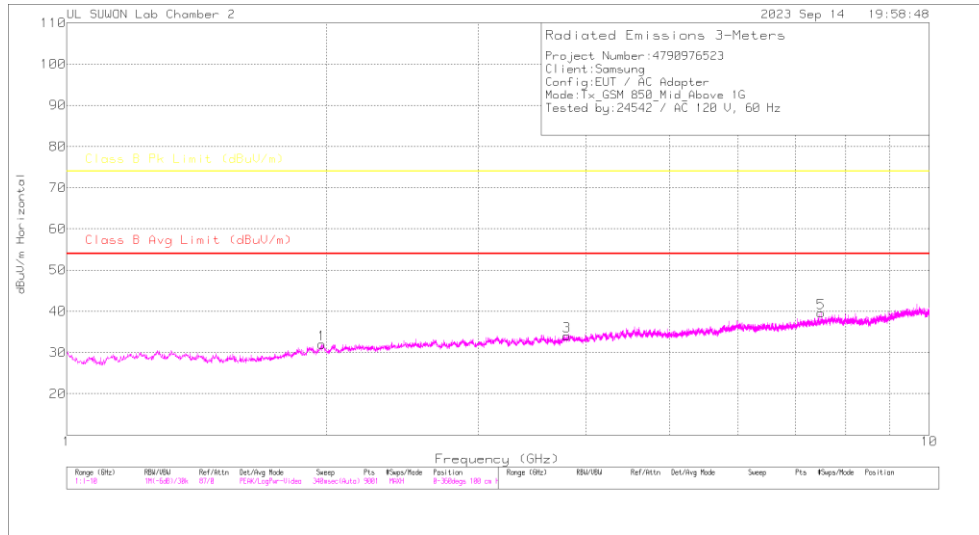
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor(dB(1m))	Path Loss(dB)	1GHz_HPF Loss[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
1.977	36.94	Pk	31.2	-29.9	.6	38.84	-	-	74	-35.16	0	100	H
1.977	24.79	Ca	31.2	-29.9	.6	26.69	54	-27.31	-	-	0	100	H
2.022	36.54	Pk	31.3	-29.9	.5	38.44	-	-	74	-35.56	0	100	V
2.022	24.05	Ca	31.3	-29.9	.5	25.95	54	-28.05	-	-	0	100	V
3.357	35.99	Pk	32.6	-28.5	.7	40.79	-	-	74	-33.21	0	100	H
3.357	23.68	Ca	32.6	-28.5	.7	28.48	54	-25.52	-	-	0	100	H
3.358	36.25	Pk	32.6	-28.4	.7	41.15	-	-	74	-32.85	0	100	V
3.358	23.65	Ca	32.6	-28.4	.7	28.55	54	-25.45	-	-	0	100	V
5.78	34.91	Pk	34.6	-26	.6	44.11	-	-	74	-29.89	0	100	H
5.78	22.98	Ca	34.6	-26	.6	32.18	54	-21.82	-	-	0	100	H
5.785	34.9	Pk	34.6	-25.9	.6	44.2	-	-	74	-29.8	0	100	V
5.785	22.95	Ca	34.6	-25.9	.6	32.25	54	-21.75	-	-	0	100	V

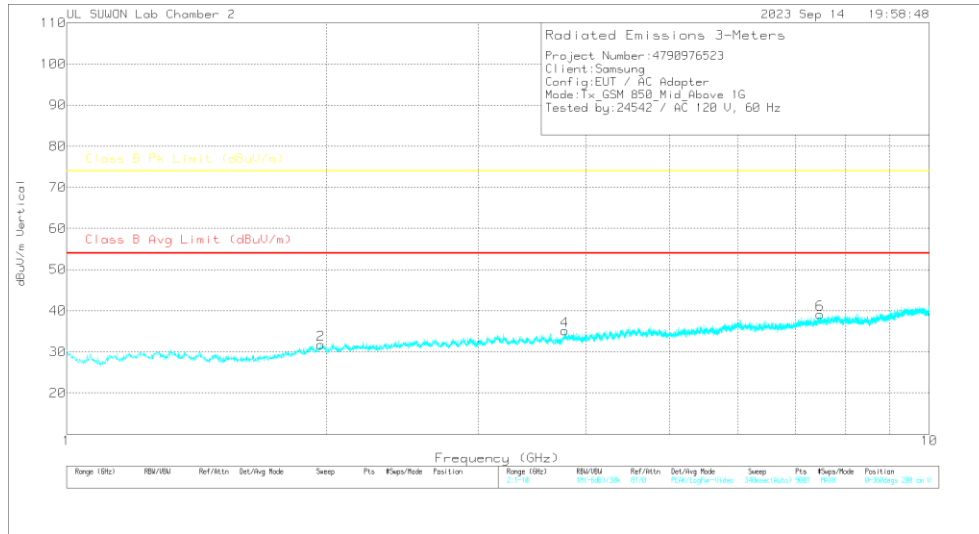
Pk - Peak detector
 Ca - CISPR average detection

MID CHANNEL(881.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

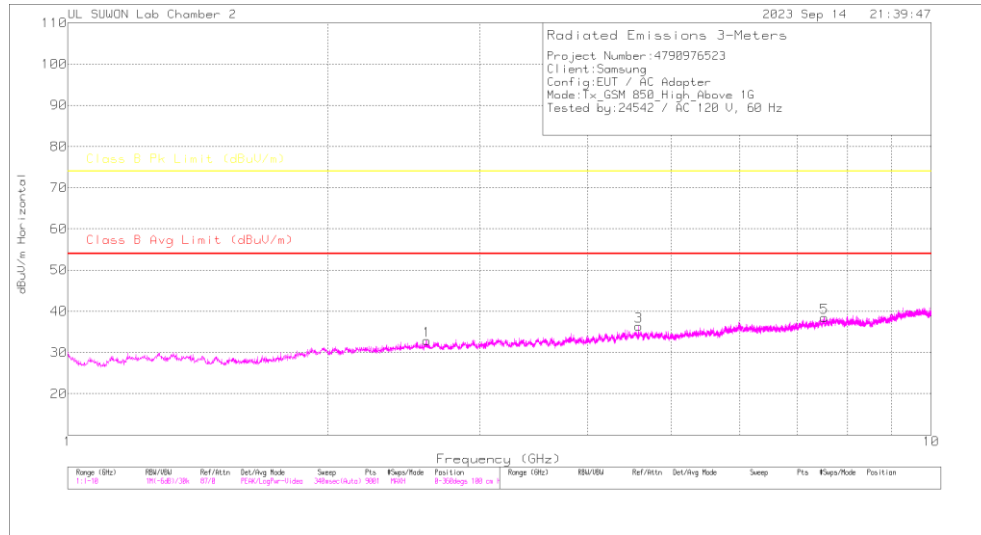
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor(dB[m])	Path Loss(dB)	1GHz_HPF Loss(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
1.977	37.26	Pk	31.2	-29.9	.6	39.16	-	-	74	-34.84	0	100	H
1.977	24.73	Ca	31.2	-29.9	.6	26.63	54	-27.37	-	-	0	100	H
1.971	36.66	Pk	31.2	-29.9	.6	38.56	-	-	74	-35.44	0	100	V
1.971	24.65	Ca	31.2	-29.9	.6	26.55	54	-27.45	-	-	0	100	V
3.8	36.14	Pk	33.1	-28.1	.5	41.64	-	-	74	-32.36	0	100	H
3.8	23.73	Ca	33.1	-28.1	.5	29.23	54	-24.77	-	-	0	100	H
3.782	36.03	Pk	33.1	-28.1	.5	41.53	-	-	74	-32.47	0	100	V
3.782	23.97	Ca	33.1	-28.1	.5	29.47	54	-24.53	-	-	0	100	V
7.491	33.3	Pk	35.8	-23.7	.4	45.8	-	-	74	-28.2	0	100	H
7.491	21.83	Ca	35.8	-23.7	.4	34.33	54	-19.67	-	-	0	100	H
7.473	32.88	Pk	35.7	-23.7	.4	45.28	-	-	74	-28.72	0	100	V
7.473	21.34	Ca	35.7	-23.7	.4	33.74	54	-20.26	-	-	0	100	V

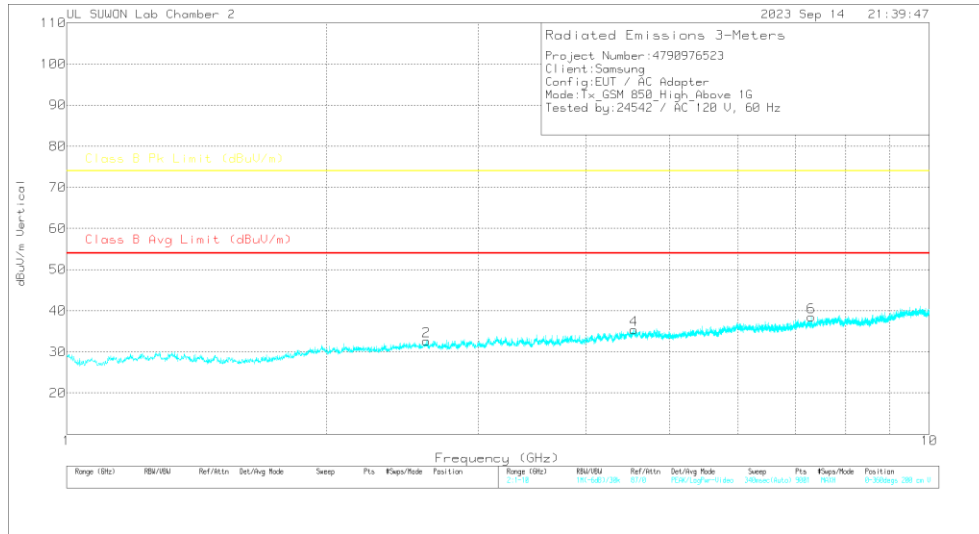
Pk - Peak detector
 Ca - CISPR average detection

HIGH CHANNEL(893.8 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

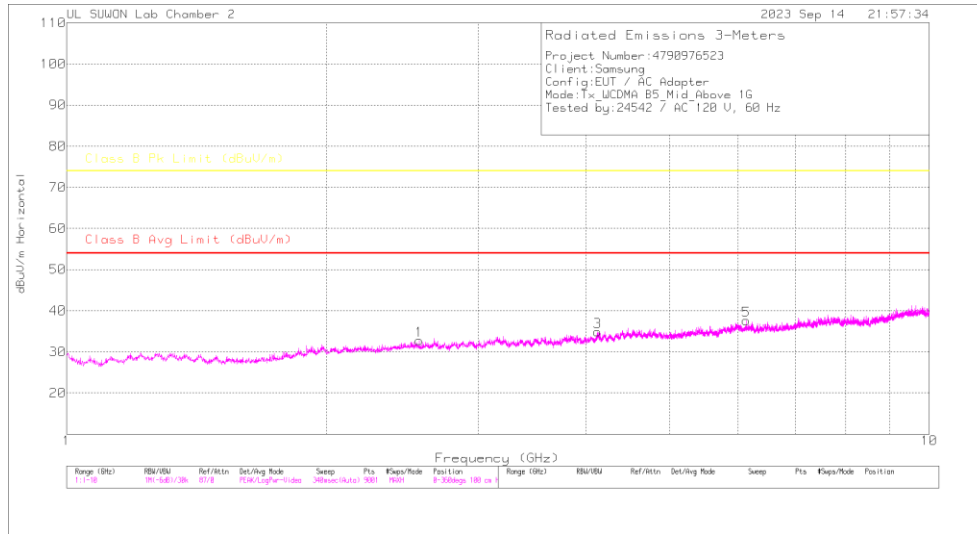
Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor(dB[m])	Path Loss(dB)	1GHz_HPF Loss(dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.606	35.63	Pk	32.1	-29.1	.8	39.43	-	-	74	-34.57	0	100	H
2.606	23.75	Ca	32.1	-29.1	.8	27.55	54	-26.45	-	-	0	100	H
2.611	36.13	Pk	32.1	-29.1	.8	39.93	-	-	74	-34.07	0	100	V
2.611	23.74	Ca	32.1	-29.1	.8	27.54	54	-26.46	-	-	0	100	V
4.585	35.5	Pk	34	-27.5	.5	42.5	-	-	74	-31.5	0	100	H
4.585	23.31	Ca	34	-27.5	.5	30.31	54	-23.69	-	-	0	100	H
4.546	35.6	Pk	34	-27.4	.5	42.7	-	-	74	-31.3	0	100	V
4.546	23.61	Ca	34	-27.4	.5	30.71	54	-23.29	-	-	0	100	V
7.52	33.87	Pk	35.8	-23.9	.4	46.17	-	-	74	-27.83	0	100	H
7.52	21.9	Ca	35.8	-23.9	.4	34.2	54	-19.8	-	-	0	100	H
7.295	34.11	Pk	35.7	-25	.4	45.21	-	-	74	-28.79	0	100	V
7.295	22.42	Ca	35.7	-25	.4	33.52	54	-20.48	-	-	0	100	V

Pk - Peak detector
 Ca - CISPR average detection

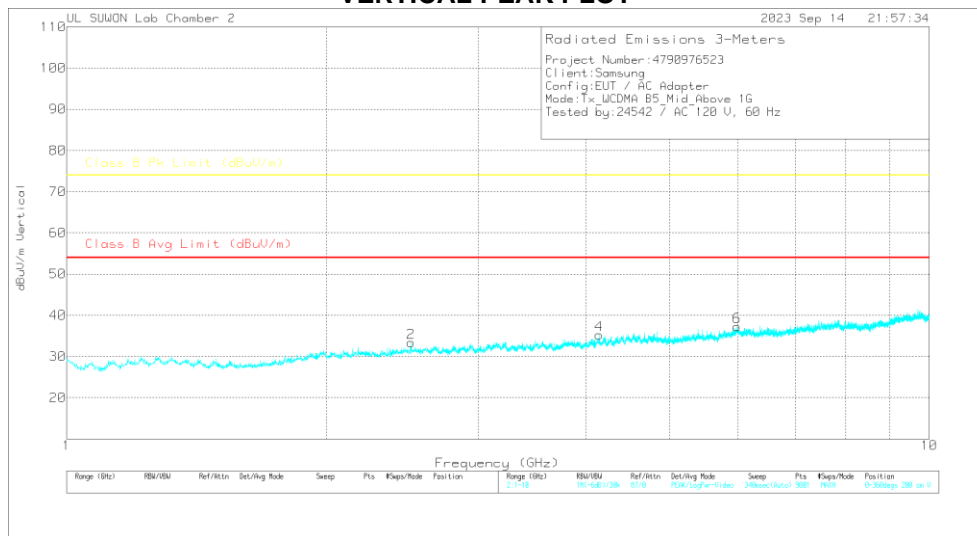
7.1.2. Above 1 GHz in the WCDMA Band 5

MID CHANNEL(881.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

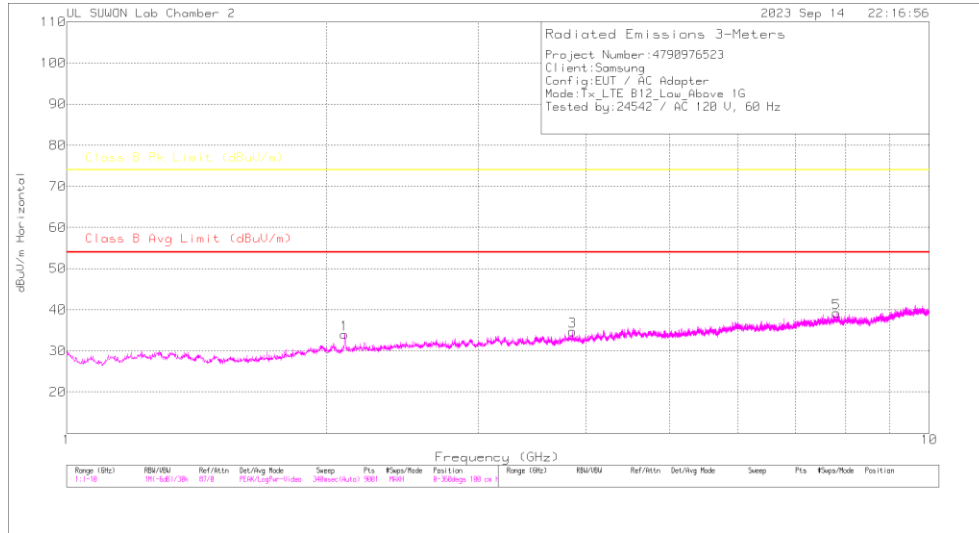
Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor(dB(1m))	Path Loss(dB)	1GHz_HPF Loss[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.563	36.2	Pk	32	-29	.7	39.9	-	-	74	-34.1	0	100	H
2.563	23.34	Ca	32	-29	.7	27.04	54	-26.96	-	-	0	100	H
2.506	35.65	Pk	31.9	-28.9	.8	39.45	-	-	74	-34.55	0	100	V
2.506	23.42	Ca	31.9	-28.9	.8	27.22	54	-26.78	-	-	0	100	V
4.124	35.74	Pk	33.2	-27.3	.5	42.14	-	-	74	-31.86	0	100	H
4.124	23.81	Ca	33.2	-27.3	.5	30.21	54	-23.79	-	-	0	100	H
4.142	35.82	Pk	33.2	-27.1	.5	42.42	-	-	74	-31.58	0	100	V
4.142	23.64	Ca	33.2	-27.1	.5	30.24	54	-23.76	-	-	0	100	V
6.133	34.52	Pk	35.2	-25.6	.4	44.52	-	-	74	-29.48	0	100	H
6.133	22.52	Ca	35.2	-25.6	.4	32.52	54	-21.48	-	-	0	100	H
5.988	35.9	Pk	35	-26.3	.5	45.1	-	-	74	-28.9	0	100	V
5.988	23.23	Ca	35	-26.3	.5	32.43	54	-21.57	-	-	0	100	V

Pk - Peak detector
 Ca - CISPR average detection

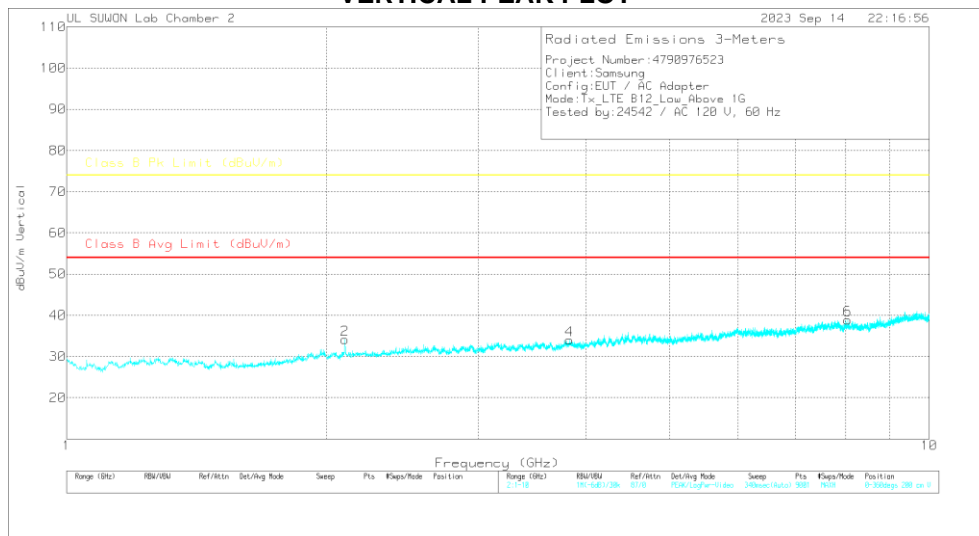
7.1.3. Above 1 GHz in the LTE Band 12

LOW CHANNEL(731.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

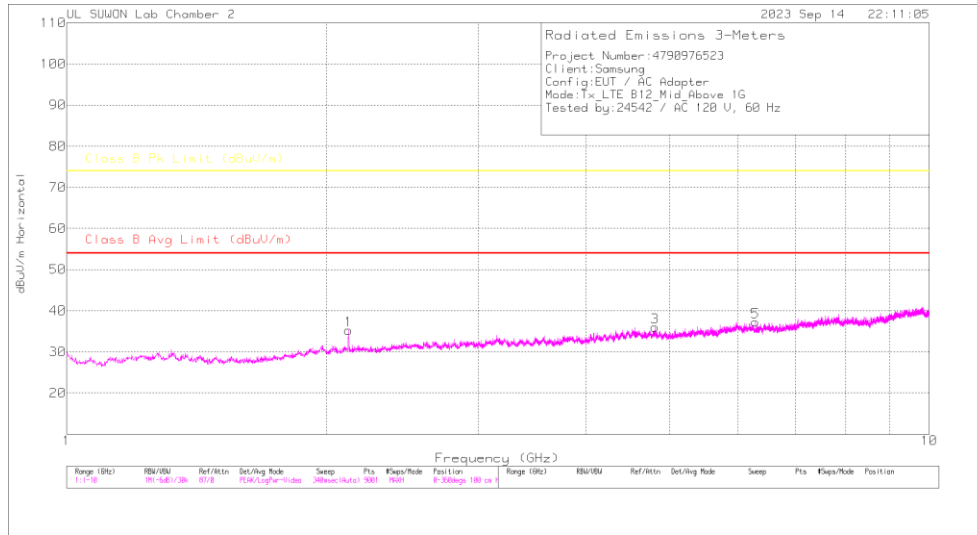
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor(dB(1m))	Path Loss(dB)	1GHz_HPF Loss[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
2.1	39.11	Pk	31.4	-29.4	.6	41.71	-	-	74	-32.29	0	100	H
2.1	27.18	Ca	31.4	-29.4	.6	29.78	54	-24.22	-	-	0	100	H
2.102	36.3	Pk	31.4	-29.5	.6	38.8	-	-	74	-35.2	0	100	V
2.102	24.14	Ca	31.4	-29.5	.6	26.64	54	-27.36	-	-	0	100	V
3.856	35.37	Pk	33.2	-28	.6	41.17	-	-	74	-32.83	0	100	H
3.856	23.68	Ca	33.2	-28	.6	29.48	54	-24.52	-	-	0	100	H
3.827	36.47	Pk	33.1	-28	.6	42.17	-	-	74	-31.83	0	100	V
3.827	23.58	Ca	33.1	-28	.6	29.28	54	-24.72	-	-	0	100	V
7.801	33.63	Pk	35.9	-23.3	.5	46.73	-	-	74	-27.27	0	100	H
7.801	21.43	Ca	35.9	-23.3	.5	34.53	54	-19.47	-	-	0	100	H
8.046	33.25	Pk	35.9	-23.3	.6	46.45	-	-	74	-27.55	0	100	V
8.046	21.18	Ca	35.9	-23.3	.6	34.38	54	-19.62	-	-	0	100	V

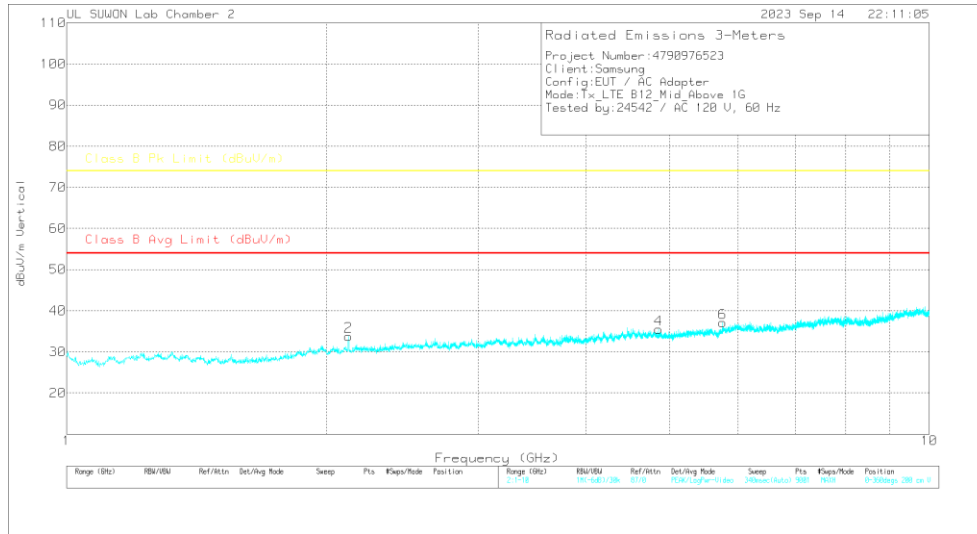
Pk - Peak detector
 Ca - CISPR average detection

MID CHANNEL(737.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

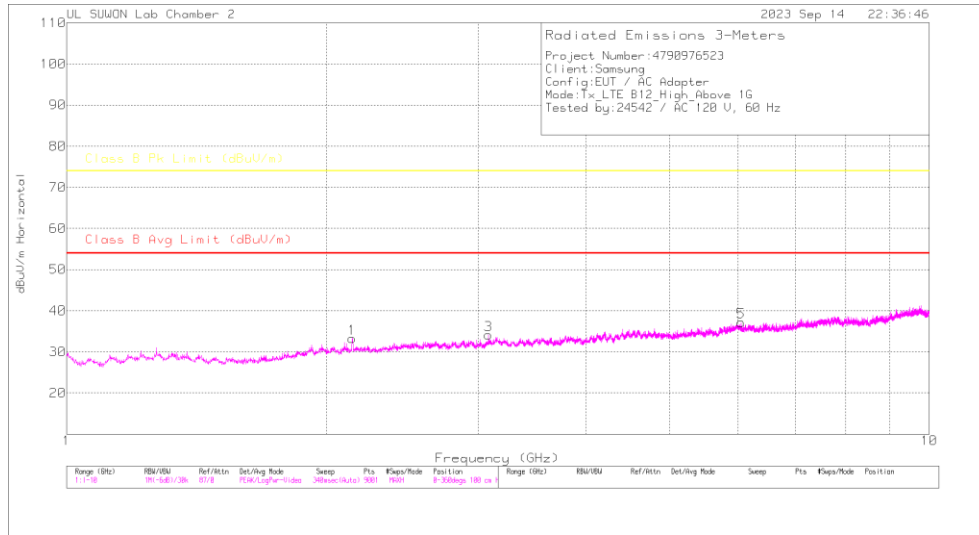
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor[dB(1m)]	Path Loss(dB)	1GHz_HPF Loss[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
2.122	39.48	Pk	31.4	-29.4	.6	42.08	-	-	74	-31.92	0	100	H
2.122	27.74	Ca	31.4	-29.4	.6	30.34	54	-23.66	-	-	0	100	H
2.122	35.95	Pk	31.4	-29.4	.6	38.55	-	-	74	-35.45	0	100	V
2.122	23.58	Ca	31.4	-29.4	.6	26.18	54	-27.82	-	-	0	100	V
4.81	35.36	Pk	34	-26.8	.5	43.06	-	-	74	-30.94	0	100	H
4.81	23.34	Ca	34	-26.8	.5	31.04	54	-22.96	-	-	0	100	H
4.855	35.22	Pk	34	-26.8	.4	42.82	-	-	74	-31.18	0	100	V
4.855	23.03	Ca	34	-26.8	.4	30.63	54	-23.37	-	-	0	100	V
6.286	34.83	Pk	35.3	-26.1	.5	44.53	-	-	74	-29.47	0	100	H
6.286	22.63	Ca	35.3	-26.1	.5	32.33	54	-21.67	-	-	0	100	H
5.761	35.04	Pk	34.6	-26.1	.5	44.04	-	-	74	-29.96	0	100	V
5.761	22.64	Ca	34.6	-26.1	.5	31.64	54	-22.36	-	-	0	100	V

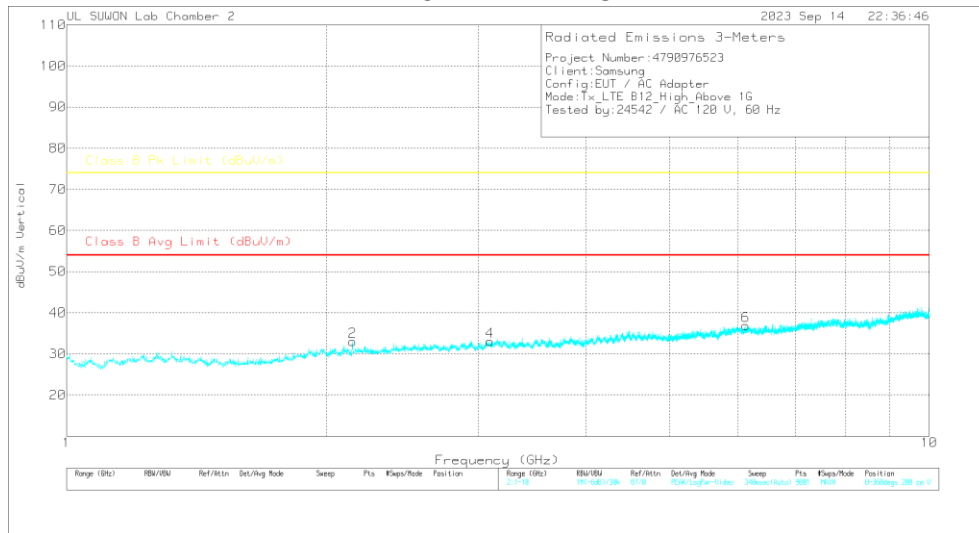
Pk - Peak detector
 Ca - CISPR average detection

HIGH CHANNEL(743.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

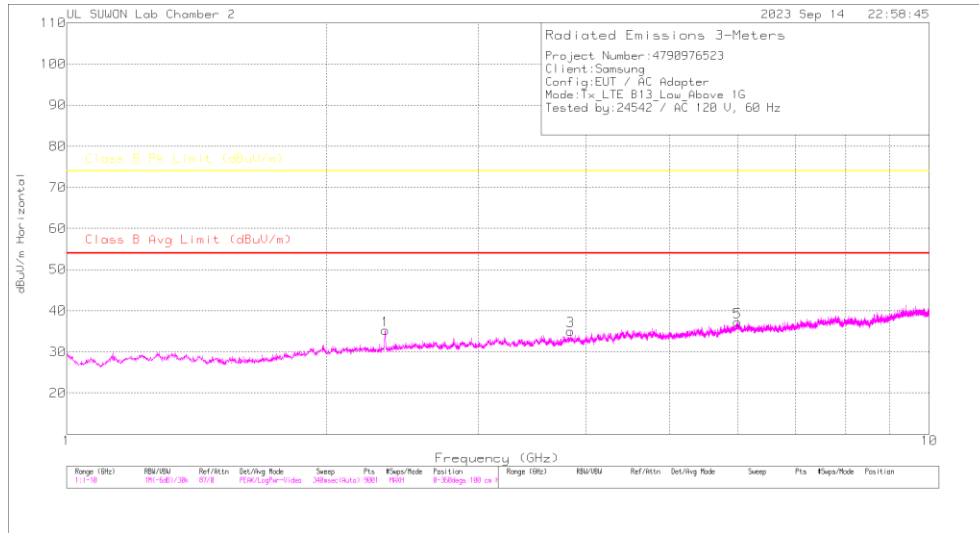
Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor (dB(1m))	Path Loss (dB)	1GHz_HPF Loss [dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR) Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.143	39.01	Pk	31.4	-29.4	.7	41.71	-	-	74	-32.29	0	100	H
2.143	27.44	Ca	31.4	-29.4	.7	30.14	54	-23.86	-	-	0	100	H
2.144	35.95	Pk	31.4	-29.4	.7	38.65	-	-	74	-35.35	0	100	V
2.144	23.72	Ca	31.4	-29.4	.7	26.42	54	-27.58	-	-	0	100	V
3.084	35.99	Pk	32.6	-28.6	.6	40.59	-	-	74	-33.41	0	100	H
3.084	23.63	Ca	32.6	-28.6	.6	28.23	54	-25.77	-	-	0	100	H
3.097	35.32	Pk	32.7	-28.6	.6	40.02	-	-	74	-33.98	0	100	V
3.097	23.29	Ca	32.7	-28.6	.6	27.99	54	-26.01	-	-	0	100	V
6.053	35.51	Pk	35.1	-26.1	.4	44.91	-	-	74	-29.09	0	100	H
6.053	23.12	Ca	35.1	-26.1	.4	32.52	54	-21.48	-	-	0	100	H
6.126	34.77	Pk	35.2	-25.7	.4	44.67	-	-	74	-29.33	0	100	V
6.126	22.7	Ca	35.2	-25.7	.4	32.6	54	-21.4	-	-	0	100	V

Pk - Peak detector
 Ca - CISPR average detection

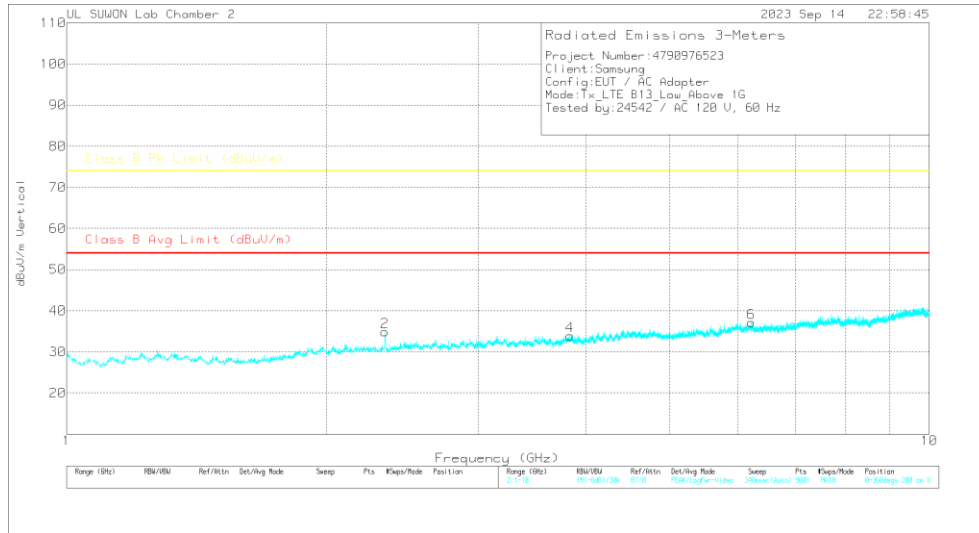
7.1.4. Above 1 GHz in the LTE Band 13

LOW CHANNEL(748.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

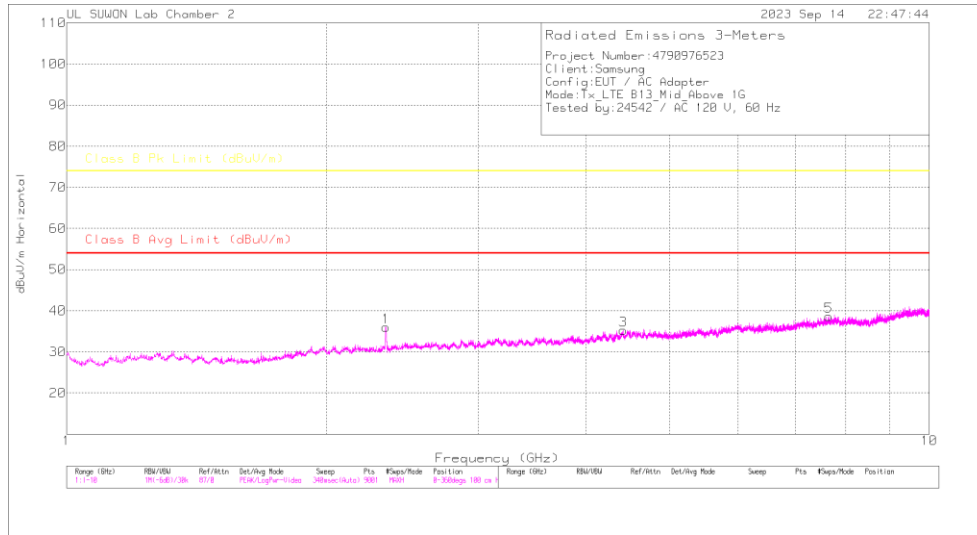
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor[dB(1m)]	Path Loss(dB)	1GHz_HPFLoss[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
2.341	37.53	Pk	31.6	-29.4	.7	40.43	-	-	74	-33.57	0	100	H
2.341	26.11	Ca	31.6	-29.4	.7	29.01	54	-24.99	-	-	0	100	H
2.339	37.52	Pk	31.6	-29.5	.7	40.32	-	-	74	-33.68	0	100	V
2.339	25.07	Ca	31.6	-29.5	.7	27.87	54	-26.13	-	-	0	100	V
3.836	36.08	Pk	33.2	-28	.6	41.88	-	-	74	-32.12	0	100	H
3.836	23.66	Ca	33.2	-28	.6	29.46	54	-24.54	-	-	0	100	H
3.832	35.2	Pk	33.1	-28	.6	40.9	-	-	74	-33.1	0	100	V
3.832	23.58	Ca	33.1	-28	.6	29.28	54	-24.72	-	-	0	100	V
5.993	34.86	Pk	35	-26.3	.5	44.06	-	-	74	-29.94	0	100	H
5.993	23.3	Ca	35	-26.3	.5	32.5	54	-21.5	-	-	0	100	H
6.223	34.04	Pk	35.3	-25.7	.5	44.14	-	-	74	-29.86	0	100	V
6.223	22.53	Ca	35.3	-25.7	.5	32.63	54	-21.37	-	-	0	100	V

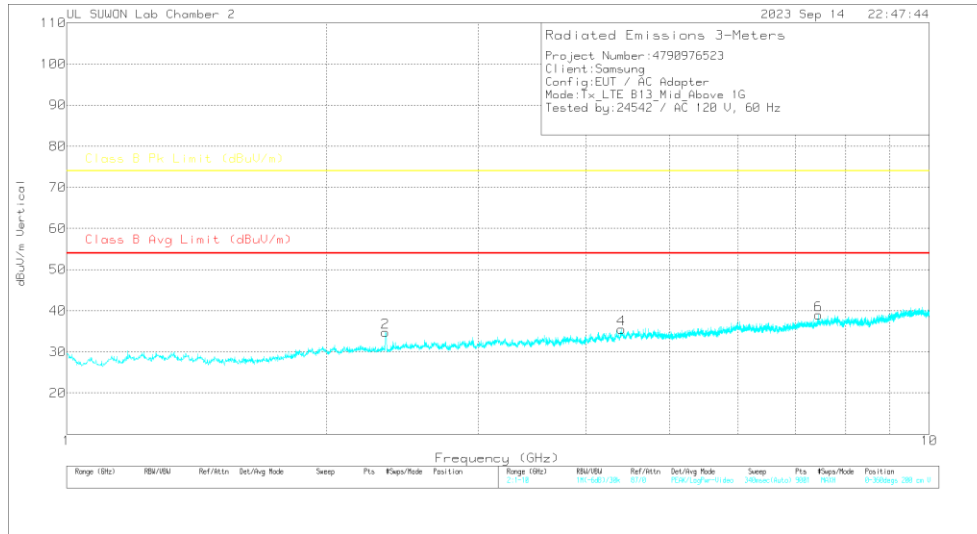
Pk - Peak detector
 Ca - CISPR average detection

MID CHANNEL(751.0 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

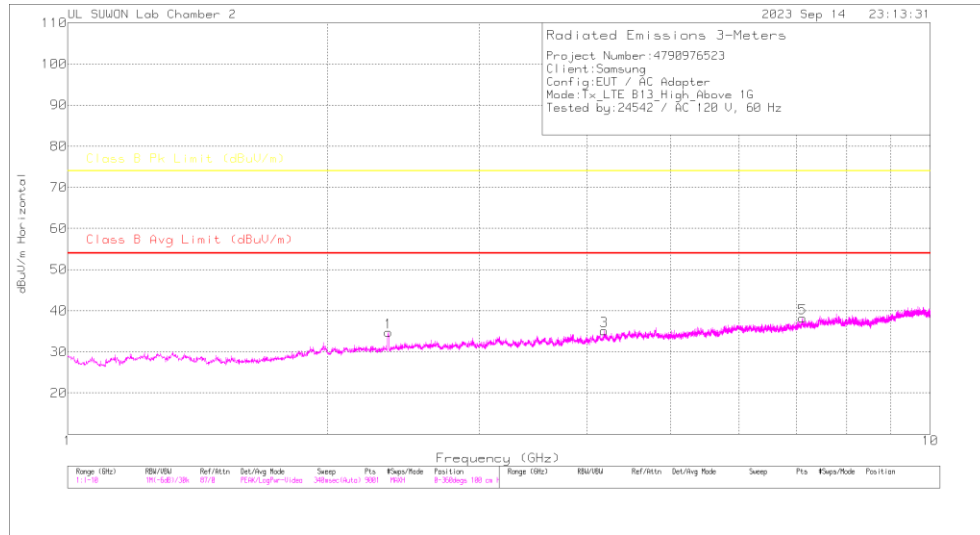
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor[dB(1m)]	Path Loss(dB)	1GHz_HPF Loss[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
2.346	37.85	Pk	31.6	-29.5	.7	40.65	-	-	74	-33.35	0	100	H
2.346	26.4	Ca	31.6	-29.5	.7	29.2	54	-24.8	-	-	0	100	H
2.343	37.11	Pk	31.6	-29.5	.7	39.91	-	-	74	-34.09	0	100	V
2.343	24.8	Ca	31.6	-29.5	.7	27.6	54	-26.4	-	-	0	100	V
4.418	36.29	Pk	33.6	-27.3	.4	42.99	-	-	74	-31.01	0	100	H
4.418	23.72	Ca	33.6	-27.3	.4	30.42	54	-23.58	-	-	0	100	H
4.397	35.94	Pk	33.6	-27.4	.5	42.64	-	-	74	-31.36	0	100	V
4.397	24.01	Ca	33.6	-27.4	.5	30.71	54	-23.29	-	-	0	100	V
7.643	33.3	Pk	35.8	-23.9	.4	45.6	-	-	74	-28.4	0	100	H
7.643	21.67	Ca	35.8	-23.9	.4	33.97	54	-20.03	-	-	0	100	H
7.443	33.7	Pk	35.7	-23.8	.4	46	-	-	74	-28	0	100	V
7.443	21.83	Ca	35.7	-23.8	.4	34.13	54	-19.87	-	-	0	100	V

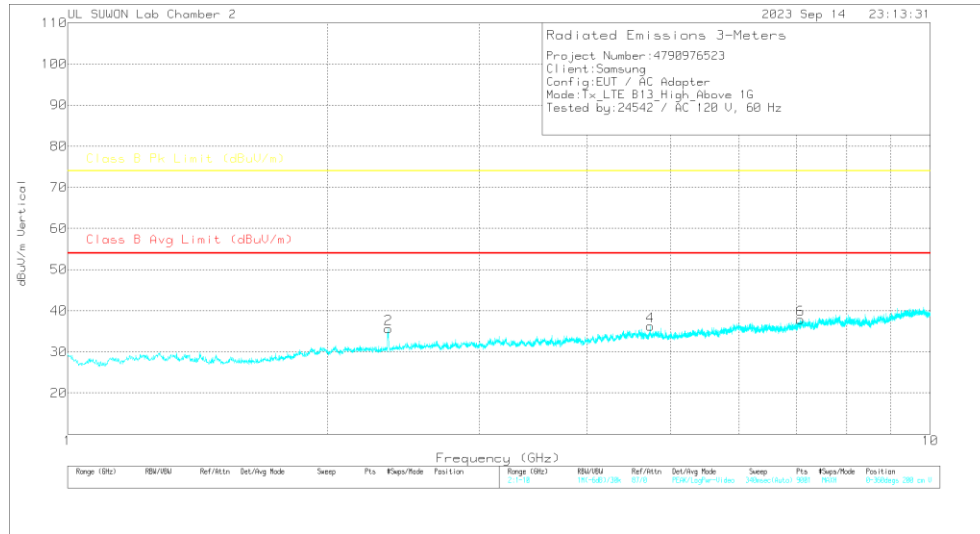
Pk - Peak detector
 Ca - CISPR average detection

HIGH CHANNEL(753.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

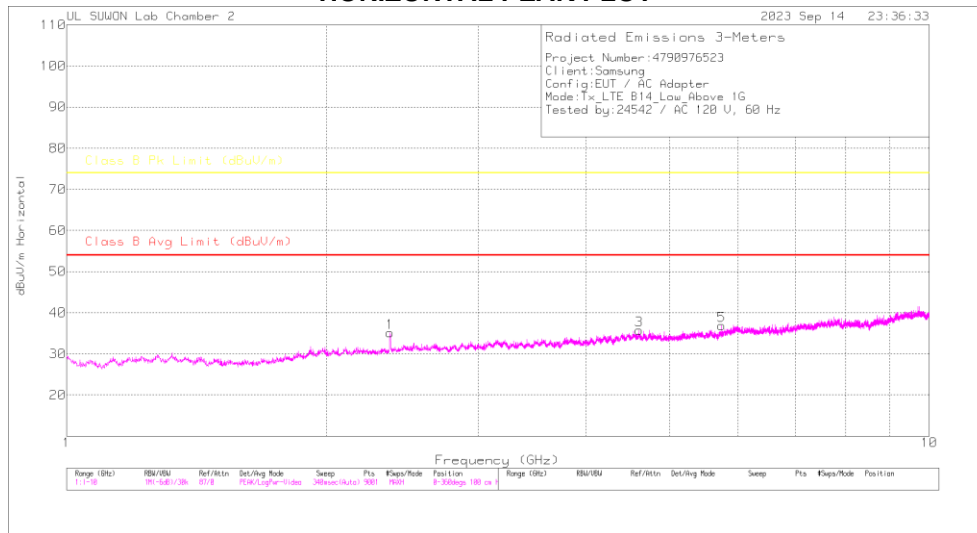
Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor[dB(1m)]	Path Loss(dB)	1GHz_HPF Loss[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.356	37.06	Pk	31.6	-29.5	.7	39.86	-	-	74	-34.14	0	100	H
2.356	25.54	Ca	31.6	-29.5	.7	28.34	54	-25.66	-	-	0	100	H
2.353	36.5	Pk	31.6	-29.5	.7	39.3	-	-	74	-34.7	0	100	V
2.353	24.86	Ca	31.6	-29.5	.7	27.66	54	-26.34	-	-	0	100	V
4.189	35.27	Pk	33.3	-27.1	.4	41.87	-	-	74	-32.13	0	100	H
4.189	23.66	Ca	33.3	-27.1	.4	30.26	54	-23.74	-	-	0	100	H
4.735	36.36	Pk	34	-27.5	.4	43.26	-	-	74	-30.74	0	100	V
4.735	23.73	Ca	34	-27.5	.4	30.63	54	-23.37	-	-	0	100	V
7.117	33.68	Pk	35.6	-24.1	.4	45.58	-	-	74	-28.42	0	100	H
7.117	21.61	Ca	35.6	-24.1	.4	33.51	54	-20.49	-	-	0	100	H
7.076	33.42	Pk	35.6	-24.3	.4	45.12	-	-	74	-28.88	0	100	V
7.076	21.41	Ca	35.6	-24.3	.4	33.11	54	-20.89	-	-	0	100	V

Pk - Peak detector
 Ca - CISPR average detection

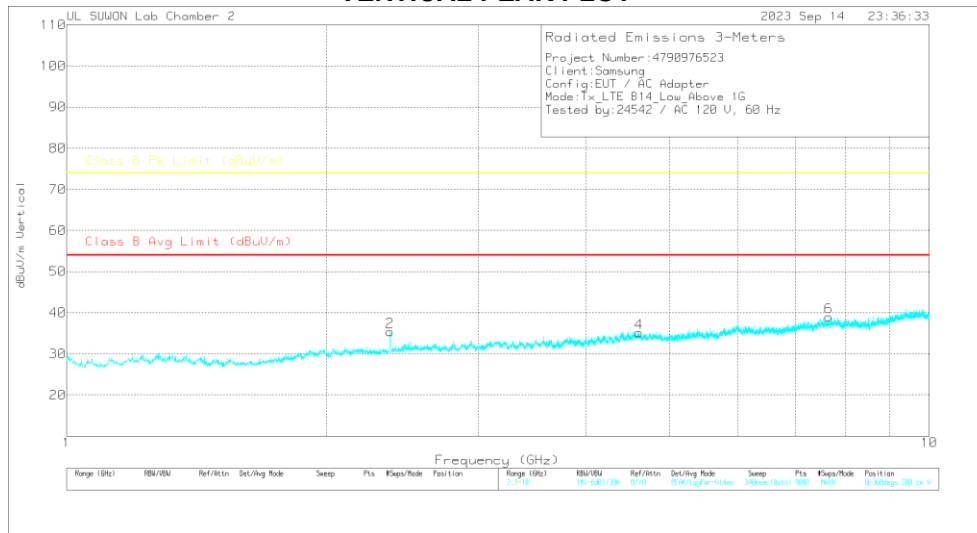
7.1.5. Above 1 GHz in the LTE Band 14

LOW CHANNEL(760.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

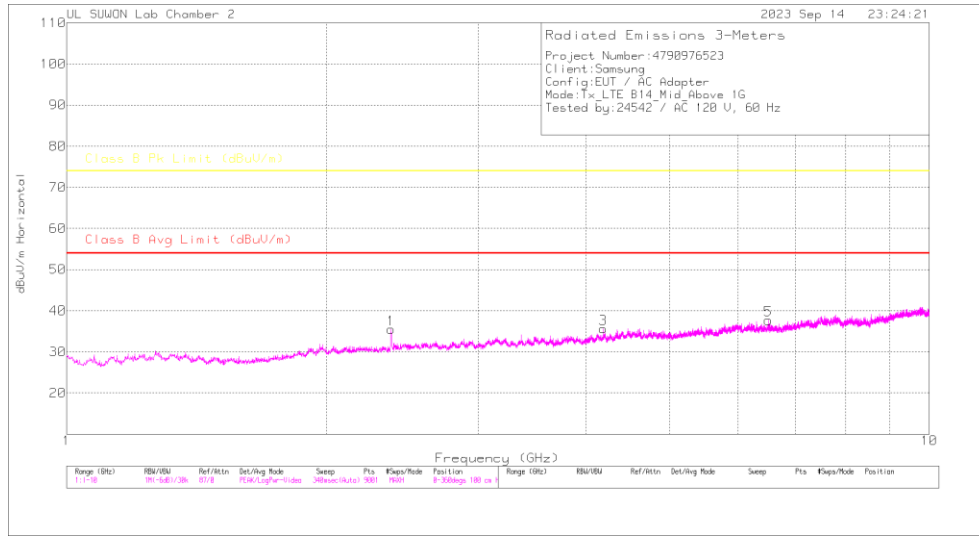
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor(dB(1m))	Path Loss(dB)	1GHz_HPF Loss[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
2.371	37.74	Pk	31.7	-29.5	.8	40.74	-	-	74	-33.26	0	100	H
2.371	26.16	Ca	31.7	-29.5	.8	29.16	54	-24.84	-	-	0	100	H
2.371	36.92	Pk	31.7	-29.5	.8	39.92	-	-	74	-34.08	0	100	V
2.371	24.67	Ca	31.7	-29.5	.8	27.67	54	-26.33	-	-	0	100	V
4.609	35.83	Pk	34.1	-27.5	.5	42.93	-	-	74	-31.07	0	100	H
4.609	23.94	Ca	34.1	-27.5	.5	31.04	54	-22.96	-	-	0	100	H
4.612	35.54	Pk	34.1	-27.6	.5	42.54	-	-	74	-31.46	0	100	V
4.612	23.94	Ca	34.1	-27.6	.5	30.94	54	-23.06	-	-	0	100	V
5.745	34.98	Pk	34.6	-26.2	.5	43.88	-	-	74	-30.12	0	100	H
5.745	22.64	Ca	34.6	-26.2	.5	31.54	54	-22.46	-	-	0	100	H
7.649	33.2	Pk	35.8	-23.8	.4	45.6	-	-	74	-28.4	0	100	V
7.649	21.65	Ca	35.8	-23.8	.4	34.05	54	-19.95	-	-	0	100	V

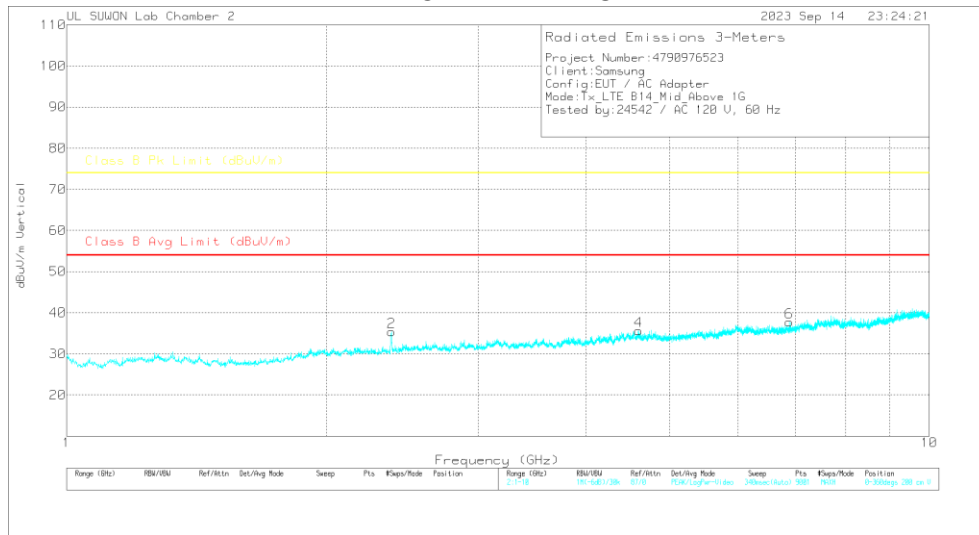
Pk - Peak detector
 Ca - CISPR average detection

MID CHANNEL(763 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

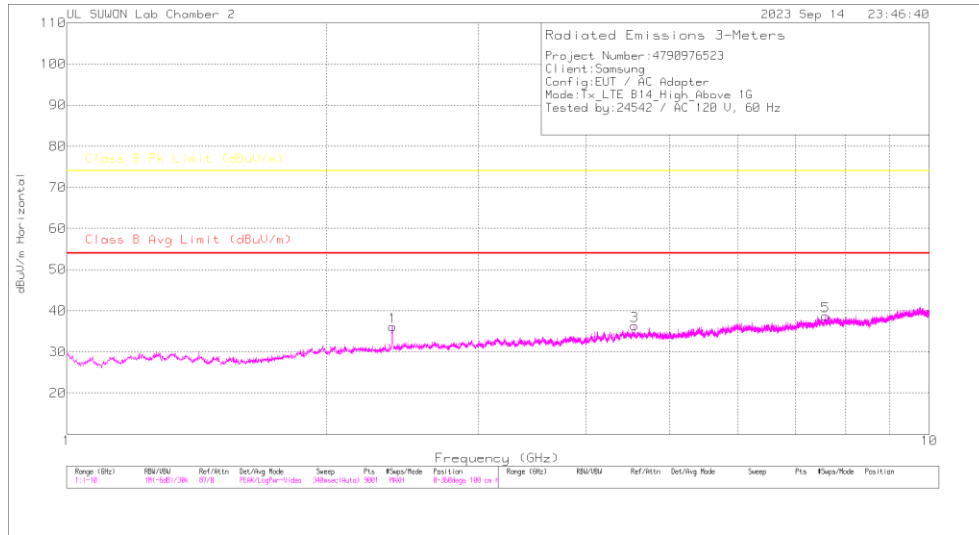
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor (dB(1m))	Path Loss (dB)	1GHz_HPF Loss (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
2.378	37.95	Pk	31.7	-29.4	.8	41.05	-	-	74	-32.95	0	100	H
2.378	26.54	Ca	31.7	-29.4	.8	29.64	-	-24.36	-	-	0	100	H
2.379	36.61	Pk	31.7	-29.5	.8	39.61	-	-	74	-34.39	0	100	V
2.379	24.66	Ca	31.7	-29.5	.8	27.66	-	-26.34	-	-	0	100	V
4.188	35.78	Pk	33.3	-27.1	.4	42.38	-	-	74	-31.62	0	100	H
4.188	23.62	Ca	33.3	-27.1	.4	30.22	-	-23.78	-	-	0	100	H
4.601	36.67	Pk	34.1	-27.5	.5	43.77	-	-	74	-30.23	0	100	V
4.601	23.85	Ca	34.1	-27.5	.5	30.95	-	-23.05	-	-	0	100	V
6.511	34.11	Pk	35.4	-25.2	.5	44.81	-	-	74	-29.19	0	100	H
6.511	22.02	Ca	35.4	-25.2	.5	32.72	-	-21.28	-	-	0	100	H
6.884	33.95	Pk	35.5	-25	.4	44.85	-	-	74	-29.15	0	100	V
6.884	21.76	Ca	35.5	-25	.4	32.66	-	-21.34	-	-	0	100	V

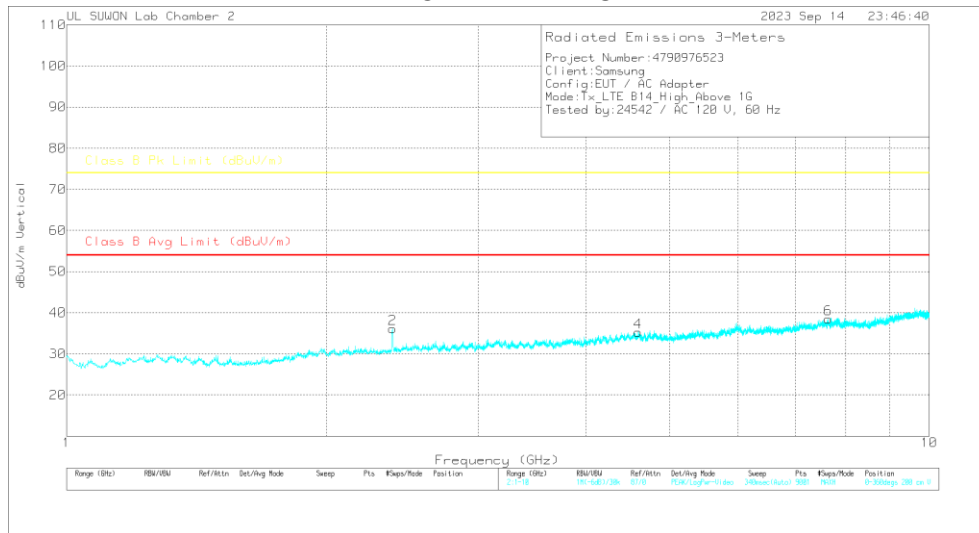
Pk - Peak detector
 Ca - CISPR average detection

HIGH CHANNEL(765.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

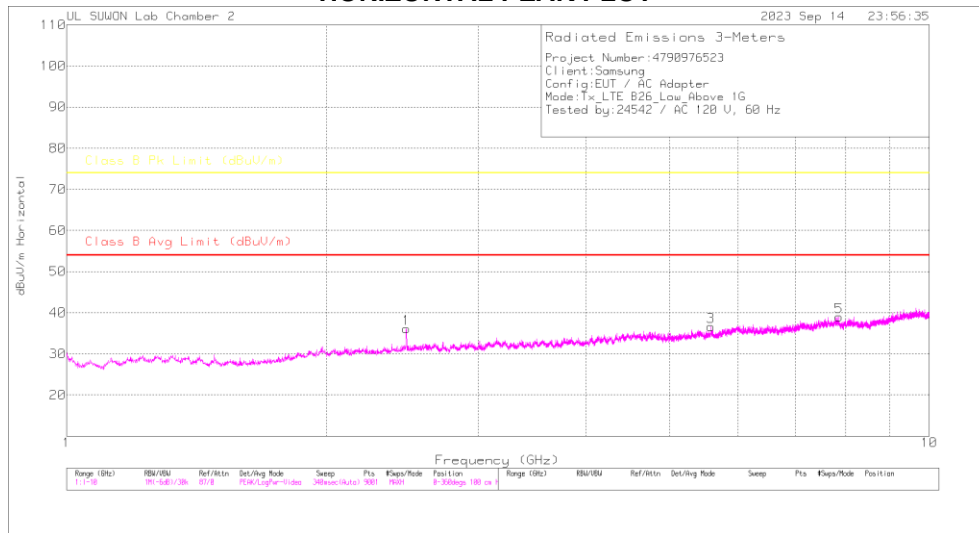
Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor(dB(1m))	Path Loss(dB)	1GHz_HPF Loss[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.386	38.17	Pk	31.7	-29.4	.8	41.27	-	-	74	-32.73	0	100	H
2.386	26.87	Ca	31.7	-29.4	.8	29.97	54	-24.03	-	-	0	100	H
2.387	36.45	Pk	31.7	-29.4	.8	39.55	-	-	74	-34.45	0	100	V
2.387	24.62	Ca	31.7	-29.4	.8	27.72	54	-26.28	-	-	0	100	V
4.553	36.09	Pk	34	-27.3	.5	43.29	-	-	74	-30.71	0	100	H
4.553	23.37	Ca	34	-27.3	.5	30.57	54	-23.43	-	-	0	100	H
4.596	35.97	Pk	34	-27.5	.5	42.97	-	-	74	-31.03	0	100	V
4.596	23.63	Ca	34	-27.5	.5	30.63	54	-23.37	-	-	0	100	V
7.585	34.61	Pk	35.8	-24.3	.5	46.61	-	-	74	-27.39	0	100	H
7.585	21.67	Ca	35.8	-24.3	.5	33.67	54	-20.33	-	-	0	100	H
7.636	34.19	Pk	35.8	-23.9	.4	46.49	-	-	74	-27.51	0	100	V
7.636	21.8	Ca	35.8	-23.9	.4	34.1	54	-19.9	-	-	0	100	V

Pk - Peak detector
 Ca - CISPR average detection

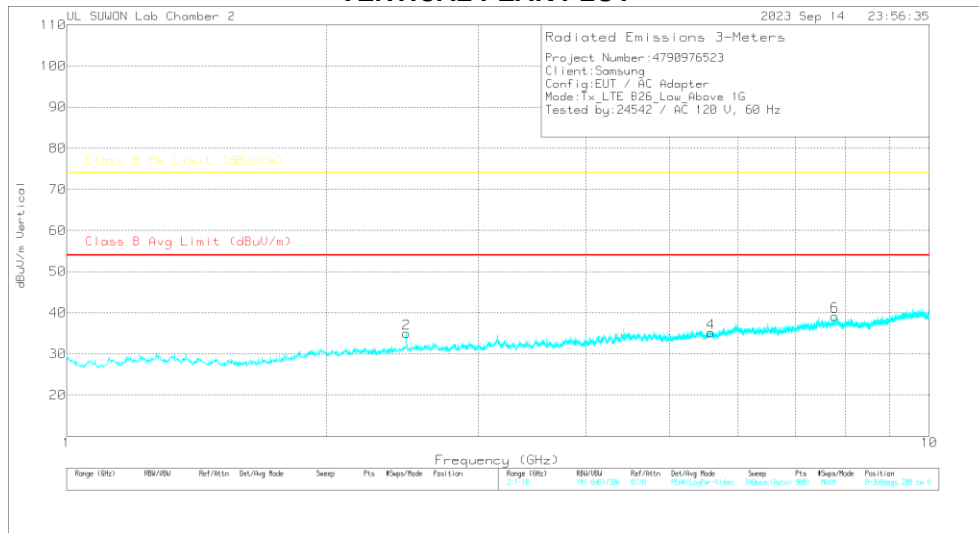
7.1.6. Above 1 GHz in the LTE Band 26

LOW CHANNEL(861.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

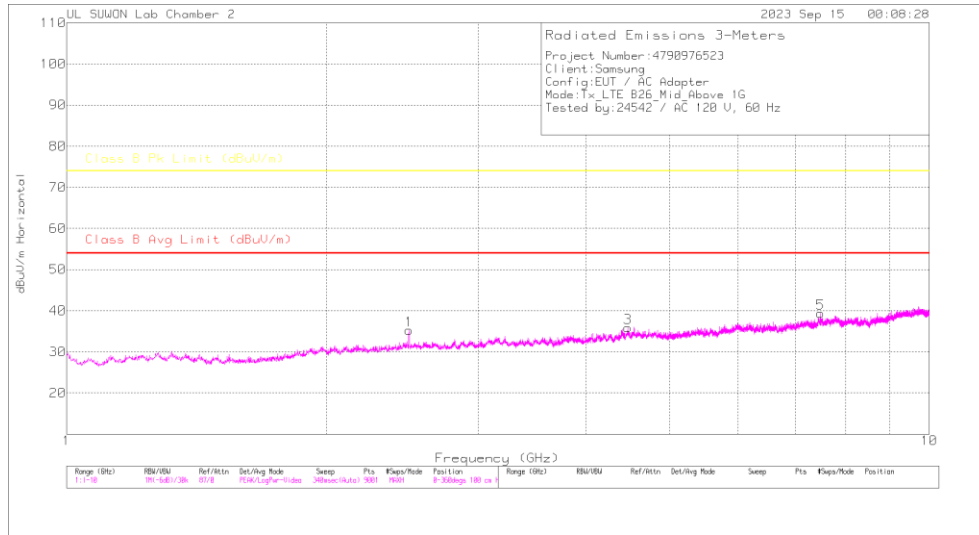
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor(dB(1/m))	Path Loss(dB)	1GHz_HPF Loss[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
2.476	39.06	Pk	31.8	-28.8	.8	42.86	-	-	74	-31.14	0	100	H
2.476	28.39	Ca	31.8	-28.8	.8	32.19	54	-21.81	-	-	0	100	H
2.476	35.53	Pk	31.8	-28.8	.8	39.33	-	-	74	-34.67	0	100	V
2.476	23.77	Ca	31.8	-28.8	.8	27.57	54	-26.43	-	-	0	100	V
5.585	34.69	Pk	34.4	-26.4	.5	43.19	-	-	74	-30.81	0	100	H
5.585	22.88	Ca	34.4	-26.4	.5	31.38	54	-22.62	-	-	0	100	H
5.585	34.98	Pk	34.4	-26.4	.5	43.48	-	-	74	-30.52	0	100	V
5.585	22.83	Ca	34.4	-26.4	.5	31.33	54	-22.67	-	-	0	100	V
7.857	33.43	Pk	35.9	-23.5	.5	46.33	-	-	74	-27.67	0	100	H
7.857	21.64	Ca	35.9	-23.5	.5	34.54	54	-19.46	-	-	0	100	H
7.776	34.29	Pk	35.9	-23.2	.5	47.49	-	-	74	-26.51	0	100	V
7.776	21.46	Ca	35.9	-23.2	.5	34.66	54	-19.34	-	-	0	100	V

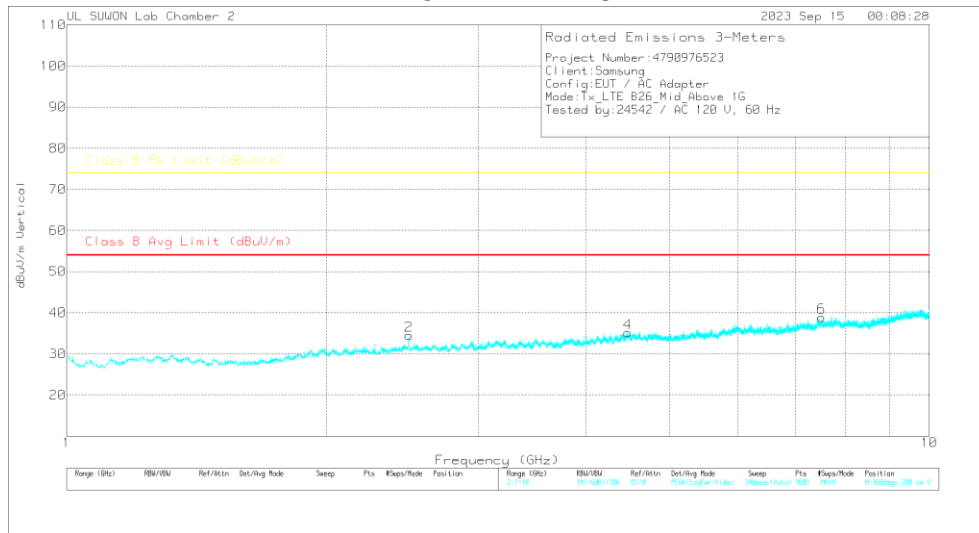
Pk - Peak detector
 Ca - CISPR average detection

MID CHANNEL(876.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

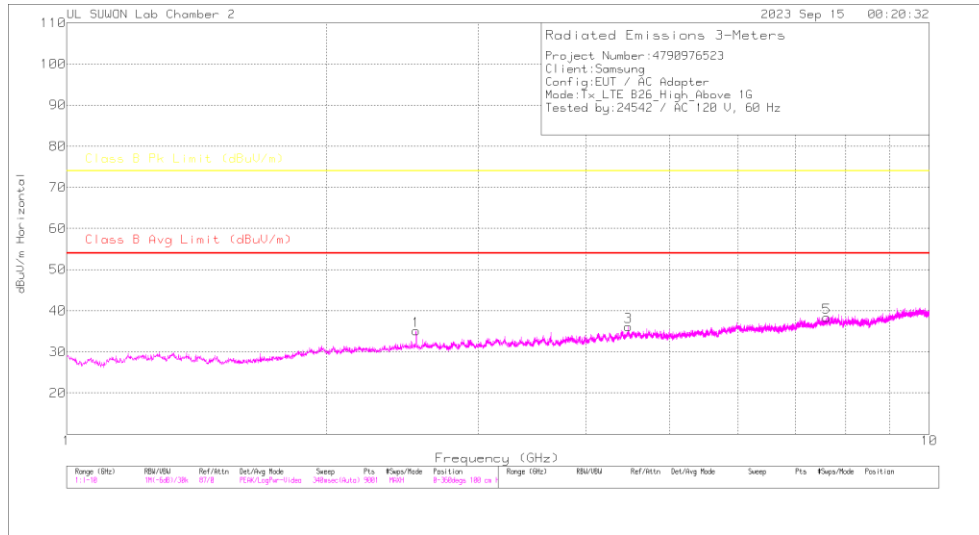
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor (dB[1m])	Path Loss (dB)	1GHz_HPF Loss [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
2.494	39.67	Pk	31.9	-28.9	.8	43.47	-	-	74	-30.53	0	100	H
2.494	28.75	Ca	31.9	-28.9	.8	32.55	-	-21.45	-	-	0	100	H
2.494	35.24	Pk	31.9	-28.9	.8	39.04	-	-	74	-34.96	0	100	V
2.494	23.44	Ca	31.9	-28.9	.8	27.24	-	-26.76	-	-	0	100	V
4.473	36.04	Pk	33.8	-27.3	.4	42.94	-	-	74	-31.06	0	100	H
4.473	24.03	Ca	33.8	-27.3	.4	30.93	-	-23.07	-	-	0	100	H
4.472	35.67	Pk	33.8	-27.3	.4	42.57	-	-	74	-31.43	0	100	V
4.472	23.96	Ca	33.8	-27.3	.4	30.86	-	-23.14	-	-	0	100	V
7.481	33.78	Pk	35.8	-23.7	.4	46.28	-	-	74	-27.72	0	100	H
7.481	21.45	Ca	35.8	-23.7	.4	33.95	-	-20.05	-	-	0	100	H
7.501	33.67	Pk	35.8	-23.8	.4	46.07	-	-	74	-27.93	0	100	V
7.501	21.98	Ca	35.8	-23.8	.4	34.38	-	-19.62	-	-	0	100	V

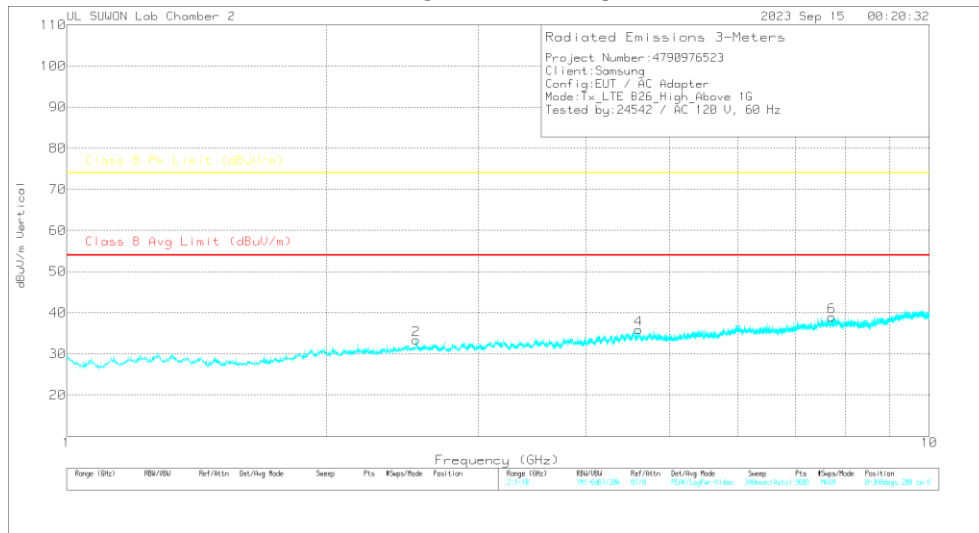
Pk - Peak detector
 Ca - CISPR average detection

HIGH CHANNEL(891.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

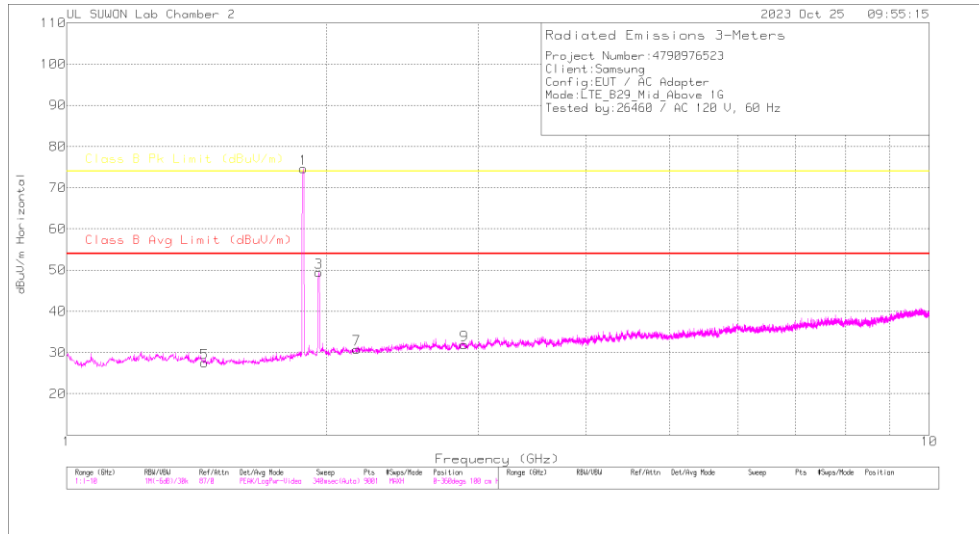
Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor[dB(1m)]	Path Loss(dB)	1GHz_HPF Loss[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.542	39.14	Pk	32	-28.8	.7	43.04	-	-	74	-30.96	0	100	H
2.542	28.47	Ca	32	-28.8	.7	32.37	-	-21.63	-	-	0	100	H
2.542	36.77	Pk	32	-28.8	.7	40.67	-	-	74	-33.33	0	100	V
2.542	24.02	Ca	32	-28.8	.7	27.92	-	-26.08	-	-	0	100	V
4.48	36.11	Pk	33.8	-27.3	.4	43.01	-	-	74	-30.99	0	100	H
4.48	23.89	Ca	33.8	-27.3	.4	30.79	-	-23.21	-	-	0	100	H
4.605	36.7	Pk	34.1	-27.6	.5	43.7	-	-	74	-30.3	0	100	V
4.605	23.94	Ca	34.1	-27.6	.5	30.94	-	-23.06	-	-	0	100	V
7.601	33.57	Pk	35.8	-24.2	.4	45.57	-	-	74	-28.43	0	100	H
7.601	21.27	Ca	35.8	-24.2	.4	33.27	-	-20.73	-	-	0	100	H
7.707	33.82	Pk	35.9	-23.4	.4	46.72	-	-	74	-27.28	0	100	V
7.707	21.52	Ca	35.9	-23.4	.4	34.42	-	-19.58	-	-	0	100	V

Pk - Peak detector
 Ca - CISPR average detection

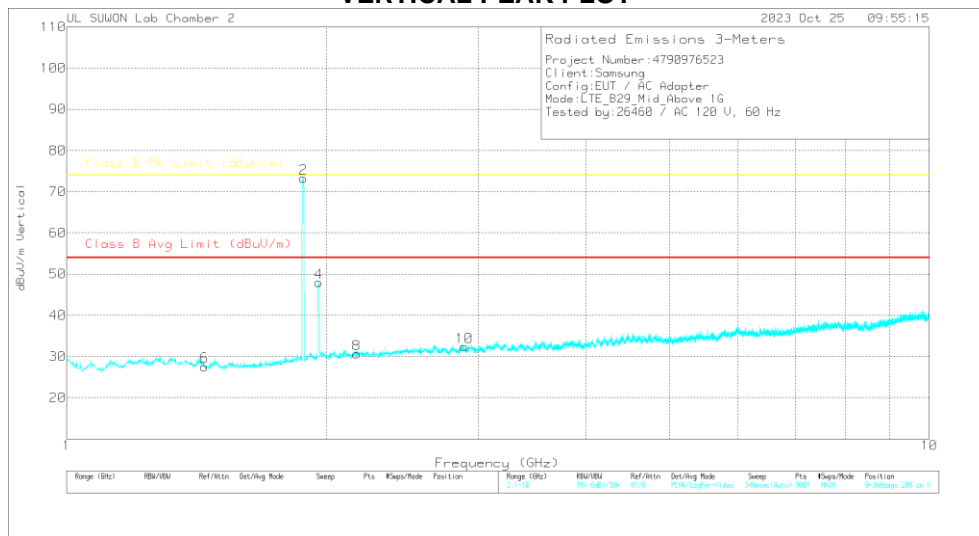
7.1.7. Above 1 GHz in the LTE Band 29 (Downlink CA)

MID CHANNEL(722.7 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (GHz)	Mean Reading (dBu/m)	Det	Antenna Correction Factor(dB/1m)	Path Loss(dB)	1GHz_HPF Loss(dB)	Corrected Reading (dBu/m)	Class B Avg Limit (dBu/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBu/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
**1	1.881	74.47	PK	30.5	-30	.7	74.67	-	-	74	-67	0.360	100	H
*3	1.961	47.63	PK	31.1	-28.9	.6	48.43	-	-	74	-24.57	0.360	100	H
5	1.445	28.68	PK	28.7	-30.6	.8	27.58	-	-	74	-46.42	0.360	100	H
7	2.168	28.03	PK	31.5	-29.4	.7	30.83	-	-	74	-43.17	0.360	100	H
9	2.891	27.94	PK	32.1	-28.9	.8	31.94	-	-	74	-42.06	0.360	100	H
**2	1.881	72.07	PK	30.5	-30	.7	73.27	-	-	74	-73	0.360	200	V
*4	1.961	46.19	PK	31.1	-29.9	.6	47.99	-	-	74	-28.01	0.360	200	V
6	1.445	28.69	PK	28.7	-30.6	.8	27.59	-	-	74	-46.41	0.360	200	V
8	2.168	27.81	PK	31.5	-29.4	.7	30.61	-	-	74	-43.39	0.360	200	V
10	2.891	28.36	PK	32.1	-28.9	.8	32.36	-	-	74	-41.64	0.360	200	V

PK – Peak Detector
 ** - LTE B2 (PCC) Fundamental
 * - LTE B2 (PCC) Downlink Frequency

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor[dB(1/m)]	Path Loss(dB)	1GHz_HPF Loss[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
1.445	36.72	Pk	28.7	-30.6	.8	35.62	-	-	74	-38.38	0	100	H
1.445	24.67	Ca	28.7	-30.6	.8	23.57	54	-30.43	-	-	0	100	H
1.445	36.35	Pk	28.7	-30.6	.8	35.25	-	-	74	-38.75	0	100	V
1.445	24.66	Ca	28.7	-30.6	.8	23.56	54	-30.44	-	-	0	100	V
2.168	36.13	Pk	31.5	-29.4	.7	38.93	-	-	74	-35.07	0	100	H
2.168	23.73	Ca	31.5	-29.4	.7	26.53	54	-27.47	-	-	0	100	H
2.168	36.27	Pk	31.5	-29.4	.7	39.07	-	-	74	-34.93	0	100	V
2.168	23.71	Ca	31.5	-29.4	.7	26.51	54	-27.49	-	-	0	100	V
2.891	36.24	Pk	32.1	-28.9	.8	40.24	-	-	74	-33.76	0	100	H
2.891	23.57	Ca	32.1	-28.9	.8	27.57	54	-26.43	-	-	0	100	H
2.891	35.29	Pk	32.1	-28.9	.8	39.29	-	-	74	-34.71	0	100	V
2.891	23.56	Ca	32.1	-28.9	.8	27.56	54	-26.44	-	-	0	100	V

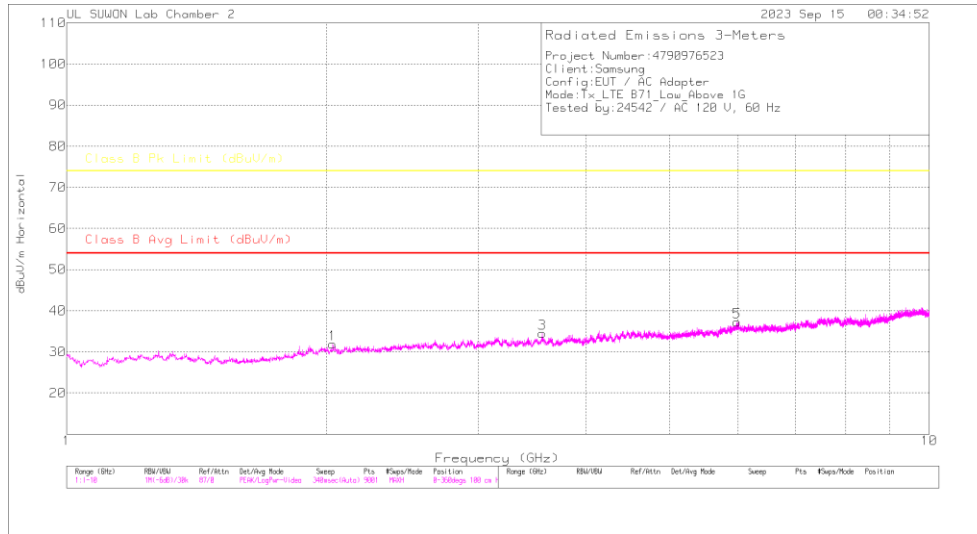
Pk - Peak detector
 Ca - CISPR average detection

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

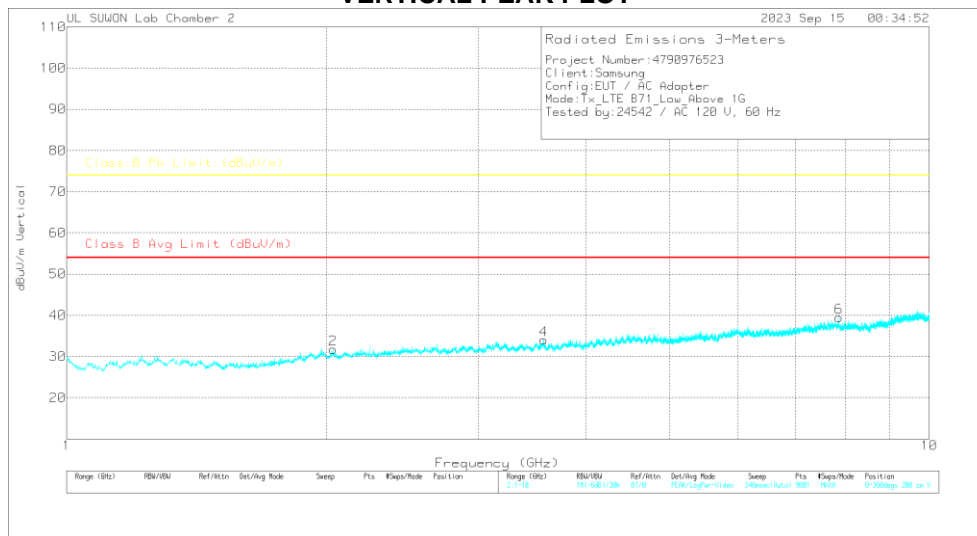
7.1.8. Above 1 GHz in the LTE Band 71

LOW CHANNEL(662 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

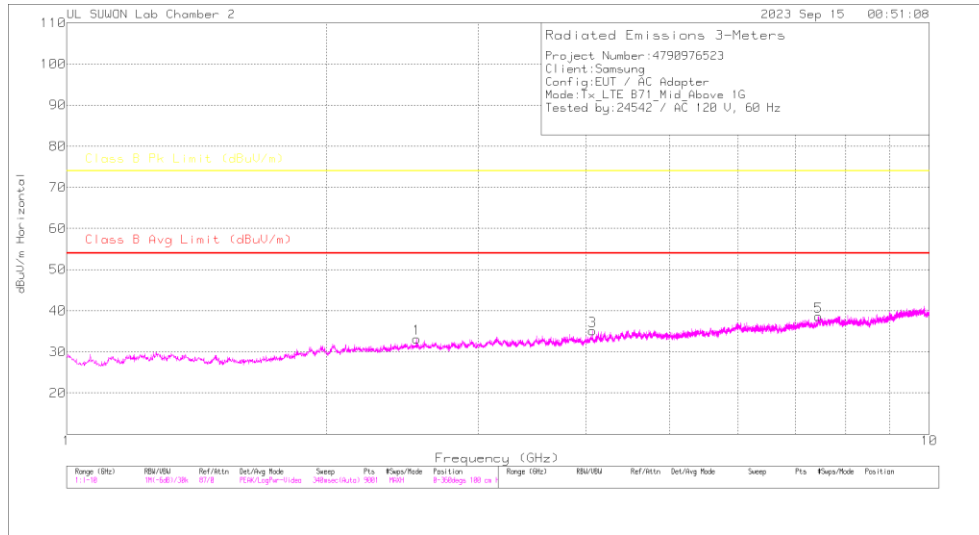
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor[dB(1/m)]	Path Loss(dB)	1GHz_HPF Loss[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
2.034	36.75	Pk	31.3	-29.8	.5	38.75	54	-	74	-35.25	0	100	H
2.034	24.4	Ca	31.3	-29.8	.5	26.4	54	-27.6	-	-	0	100	H
2.036	37.22	Pk	31.3	-29.7	.5	39.32	-	-	74	-34.68	0	100	V
2.036	24.46	Ca	31.3	-29.7	.5	26.56	54	-27.44	-	-	0	100	V
3.56	35.12	Pk	32.7	-27.9	.6	40.52	-	-	74	-33.48	0	100	H
3.56	23.37	Ca	32.7	-27.9	.6	28.77	54	-25.23	-	-	0	100	H
3.572	36.21	Pk	32.7	-28.1	.6	41.41	-	-	74	-32.59	0	100	V
3.572	23.4	Ca	32.7	-28.1	.6	28.6	54	-25.4	-	-	0	100	V
5.984	35.9	Pk	35	-26.3	.6	45.2	-	-	74	-28.8	0	100	H
5.984	23.39	Ca	35	-26.3	.6	32.69	54	-21.31	-	-	0	100	H
7.855	33.63	Pk	35.9	-23.5	.5	46.53	-	-	74	-27.47	0	100	V
7.855	21.56	Ca	35.9	-23.5	.5	34.46	54	-19.54	-	-	0	100	V

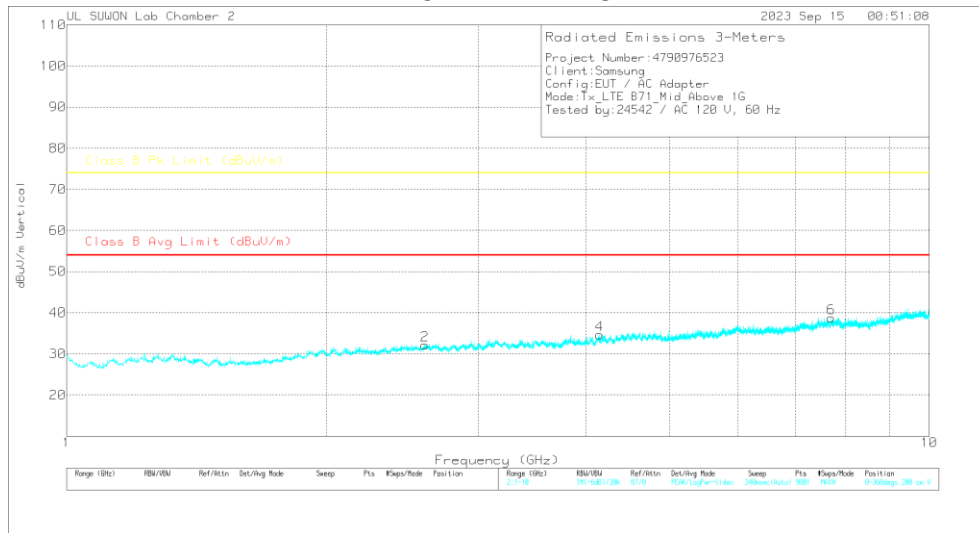
Pk - Peak detector
 Ca - CISPR average detection

MID CHANNEL(634.5 Mhz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

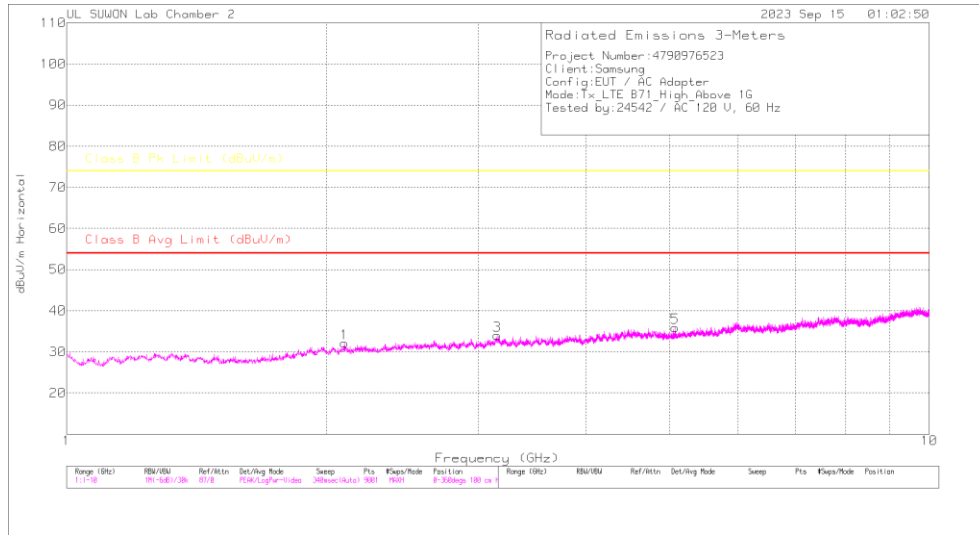
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor (dB[1m])	Path Loss (dB)	1GHz_HPF Loss [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
2.544	35.15	Pk	32	-28.9	.7	38.95	-	-	74	-35.05	0	100	H
2.544	23.52	Ca	32	-28.9	.7	27.32	54	-26.68	-	-	0	100	H
2.601	35.95	Pk	32.1	-29.1	.8	39.75	-	-	74	-34.25	0	100	V
2.601	23.72	Ca	32.1	-29.1	.8	27.52	54	-26.48	-	-	0	100	V
4.068	36.05	Pk	33.2	-27.6	.6	42.25	-	-	74	-31.75	0	100	H
4.068	23.4	Ca	33.2	-27.6	.6	29.6	54	-24.4	-	-	0	100	H
4.147	35.84	Pk	33.2	-27.2	.5	42.34	-	-	74	-31.66	0	100	V
4.147	23.46	Ca	33.2	-27.2	.5	29.96	54	-24.04	-	-	0	100	V
7.443	34.52	Pk	35.7	-23.8	.4	46.82	-	-	74	-27.18	0	100	H
7.443	21.95	Ca	35.7	-23.8	.4	34.25	54	-19.75	-	-	0	100	H
7.696	33.62	Pk	35.9	-23.4	.4	46.52	-	-	74	-27.48	0	100	V
7.696	21.51	Ca	35.9	-23.4	.4	34.41	54	-19.59	-	-	0	100	V

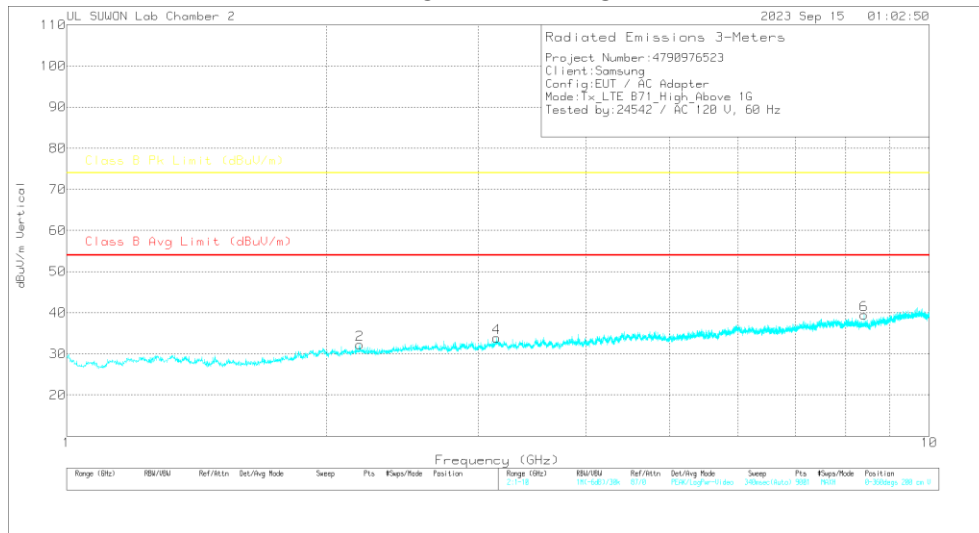
Pk - Peak detector
 Ca - CISPR average detection

HIGH CHANNEL(647 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

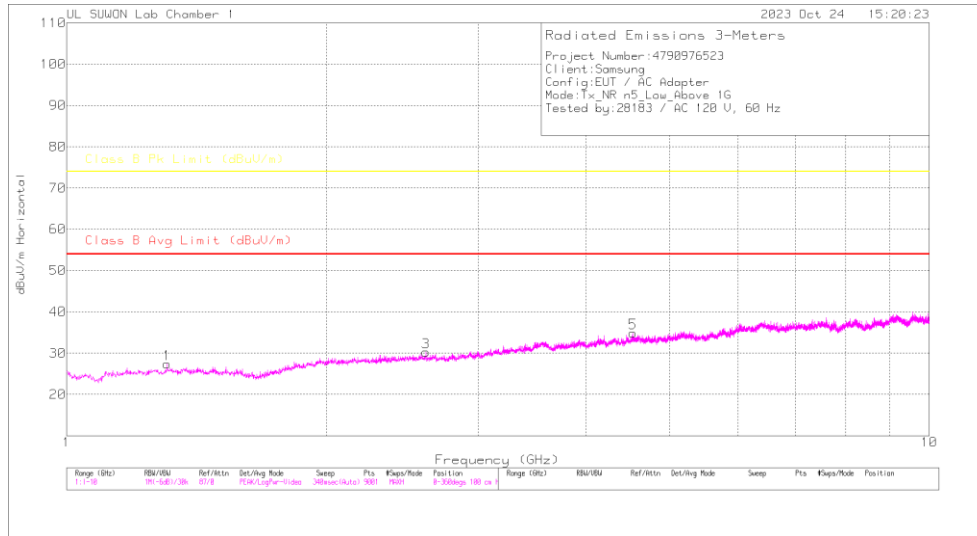
Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor(dB(1m))	Path Loss(dB)	1GHz_HPF Loss[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.098	37.1	Pk	31.4	-29.5	.6	39.6	-	-	74	-34.4	0	100	H
2.098	24.04	Ca	31.4	-29.5	.6	26.54	54	-27.46	-	-	0	100	H
2.188	35.83	Pk	31.5	-29.4	.7	38.63	-	-	74	-35.37	0	100	V
2.188	23.7	Ca	31.5	-29.4	.7	26.5	54	-27.5	-	-	0	100	V
3.157	35.42	Pk	32.8	-28.5	.7	40.42	-	-	74	-33.58	0	100	H
3.157	23.58	Ca	32.8	-28.5	.7	28.58	54	-25.42	-	-	0	100	H
3.151	36.61	Pk	32.8	-28.5	.7	41.61	-	-	74	-32.39	0	100	V
3.151	23.6	Ca	32.8	-28.5	.7	28.6	54	-25.4	-	-	0	100	V
5.071	35.26	Pk	34.1	-26.9	.5	42.96	-	-	74	-31.04	0	100	H
5.071	23.22	Ca	34.1	-26.9	.5	30.92	54	-23.08	-	-	0	100	H
8.4	32.78	Pk	35.9	-22.5	.4	46.58	-	-	74	-27.42	0	100	V
8.4	20.44	Ca	35.9	-22.5	.4	34.24	54	-19.76	-	-	0	100	V

Pk - Peak detector
 Ca - CISPR average detection

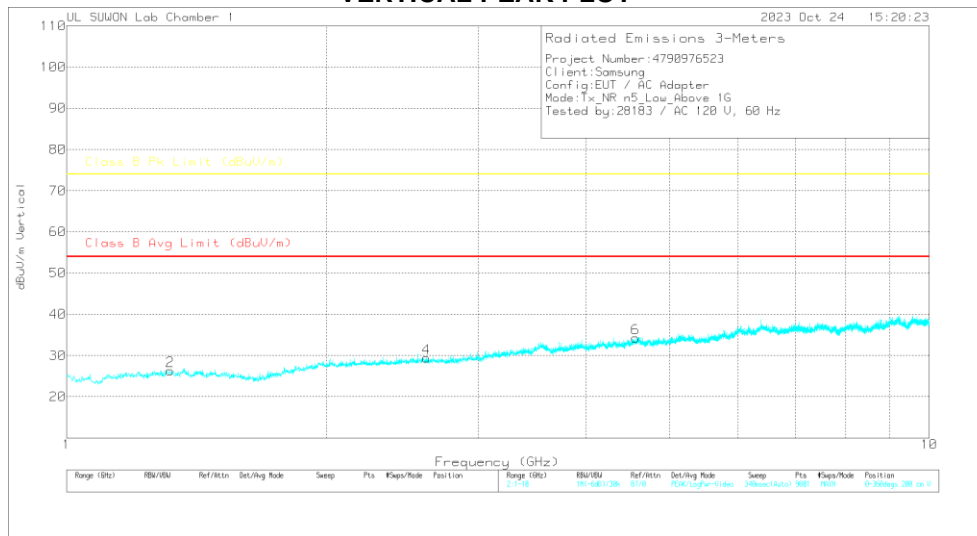
7.1.9. Above 1 GHz in the 5G NR Band n5

LOW CHANNEL(874 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

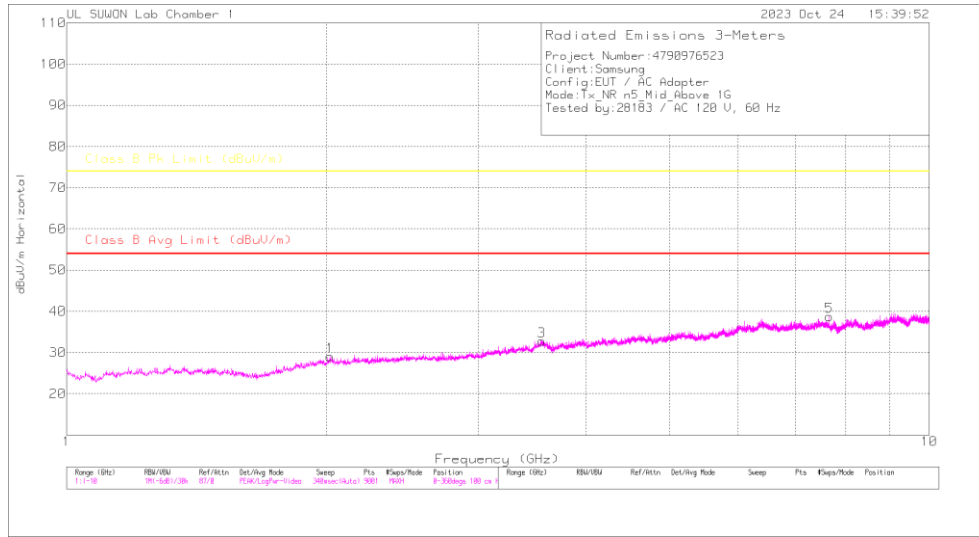
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor[dB(1m)]	Path Loss(dB)	1GHz_HPF Loss[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
1.307	42.68	Pk	29.5	-39.5	1.1	33.78	54	-	74	-40.22	0	100	H
1.307	30.34	Ca	29.5	-39.5	1.1	21.44	54	-32.56	-	-	0	100	H
1.318	42.5	Pk	29.5	-39.6	1.1	33.5	54	-	74	-40.5	0	100	V
1.318	30.61	Ca	29.5	-39.6	1.1	21.61	54	-32.39	-	-	0	100	V
2.609	42.71	Pk	32.3	-37.9	1	38.11	54	-	74	-35.89	0	100	H
2.609	29.03	Ca	32.3	-37.9	1	24.43	54	-29.57	-	-	0	100	H
2.612	41.34	Pk	32.3	-37.9	1	36.74	54	-	74	-37.26	0	100	V
2.612	29.03	Ca	32.3	-37.9	1	24.43	54	-29.57	-	-	0	100	V
4.533	40.62	Pk	34.3	-34.1	.6	41.42	54	-	74	-32.58	0	100	H
4.533	28.18	Ca	34.3	-34.1	.6	28.98	54	-25.02	-	-	0	100	H
4.567	40.16	Pk	34.3	-34	.7	41.16	54	-	74	-32.84	0	100	V
4.567	27.63	Ca	34.3	-34	.7	28.63	54	-25.37	-	-	0	100	V

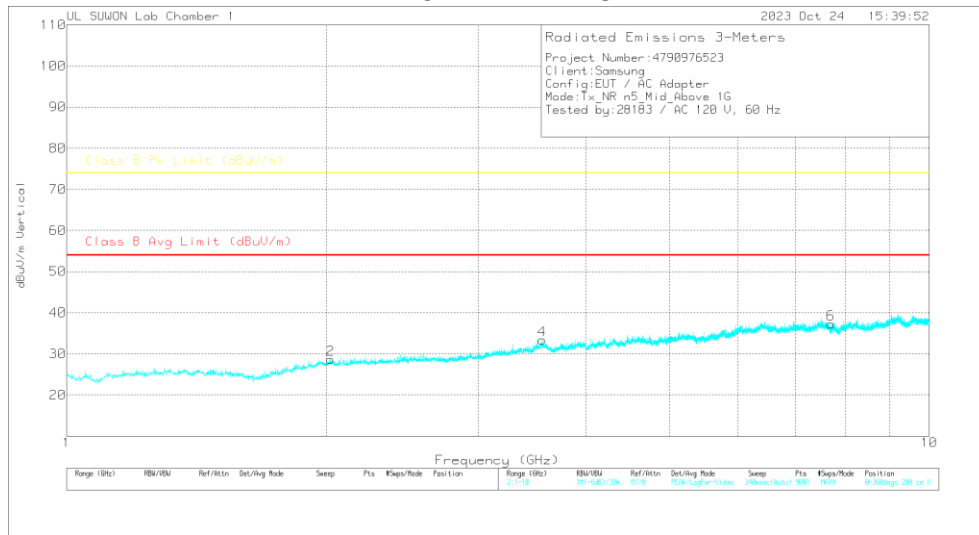
Pk - Peak detector
 Ca - CISPR average detection

MID CHANNEL(881.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

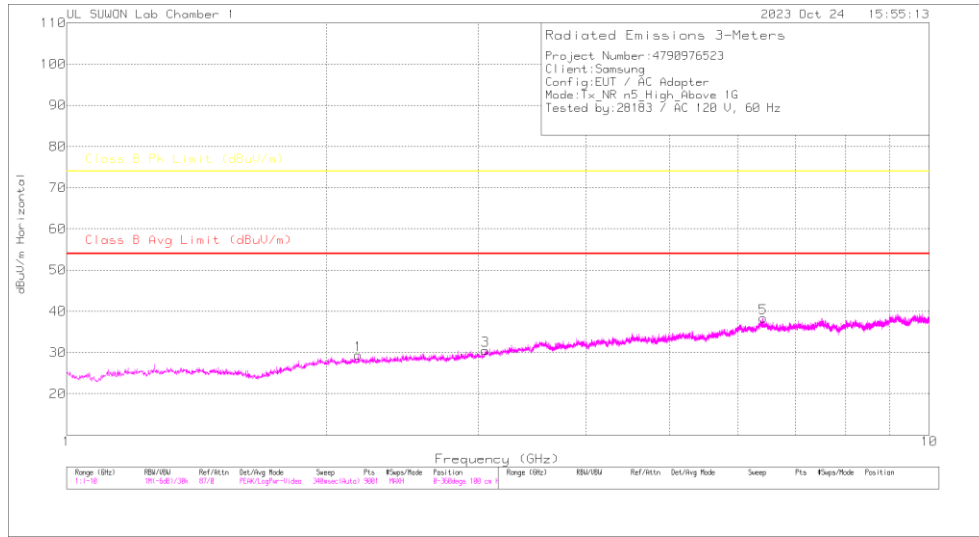
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor (dB(1m))	Path Loss (dB)	1GHz_HPF Loss [dB]	Corrected Reading dBu/m	Class B Avg Limit (dBu/m)	Av(CISPR) Margin (dB)	Class B Pk Limit (dBu/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.02	42.34	Pk	31.4	-38.5	.9	36.14	-	-	74	-37.86	0	100	H
2.02	29.83	Ca	31.4	-38.5	.9	23.63	54	-30.37	-	-	0	100	H
2.023	41.88	Pk	31.4	-38.5	.9	35.68	-	-	74	-38.32	0	100	V
2.023	29.79	Ca	31.4	-38.5	.9	23.59	54	-30.41	-	-	0	100	V
3.556	41.01	Pk	33.4	-35.2	.9	40.11	-	-	74	-33.89	0	100	H
3.556	28.79	Ca	33.4	-35.2	.9	27.89	54	-26.11	-	-	0	100	H
3.557	40.88	Pk	33.4	-35.2	.9	39.98	-	-	74	-34.02	0	100	V
3.557	28.83	Ca	33.4	-35.2	.9	27.93	54	-26.07	-	-	0	100	V
7.654	39.01	Pk	35.7	-30.3	.8	45.21	-	-	74	-28.79	0	100	H
7.654	26.45	Ca	35.7	-30.3	.8	32.65	54	-21.35	-	-	0	100	H
7.692	38.12	Pk	35.7	-30.4	.8	44.22	-	-	74	-29.78	0	100	V
7.692	26.17	Ca	35.7	-30.4	.8	32.27	54	-21.73	-	-	0	100	V

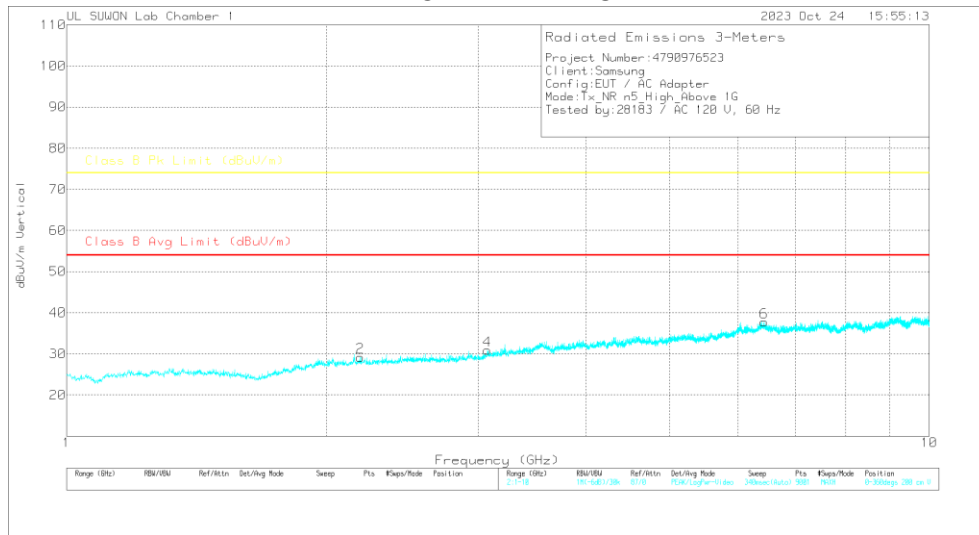
Pk - Peak detector
 Ca - CISPR average detection

HIGH CHANNEL(889.0 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Radiated Emissions

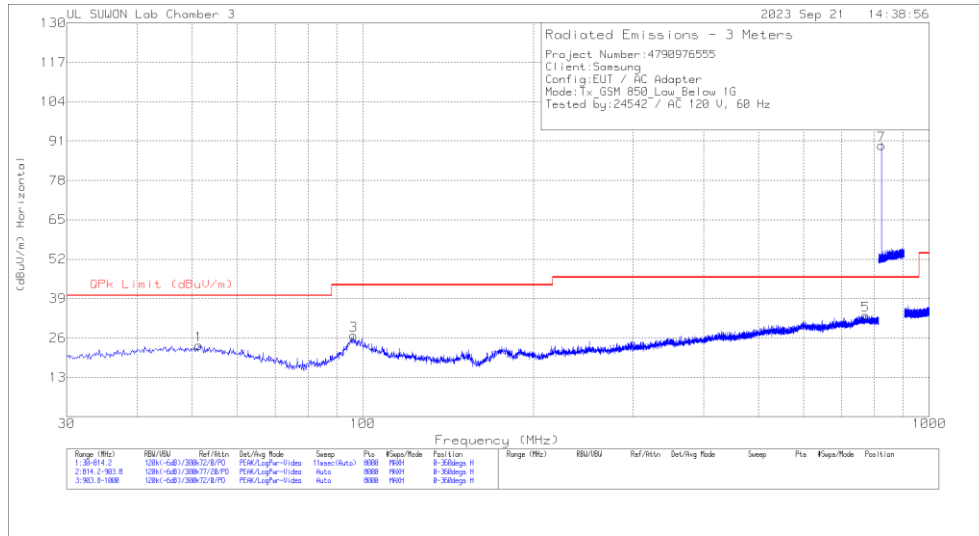
Frequency (GHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor (dB[1m])	Path Loss (dB)	1GHz_HPF Loss [dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR) Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.177	41.45	Pk	31.6	-38.2	.9	35.75	-	-	74	-38.25	0	100	H
2.177	29.42	Ca	31.6	-38.2	.9	23.72	-	-30.28	-	-	0	100	H
2.189	41.89	Pk	31.6	-38.3	.9	36.09	-	-	74	-37.91	0	100	V
2.189	29.53	Ca	31.6	-38.3	.9	23.73	-	-30.27	-	-	0	100	V
3.058	40.27	Pk	32.8	-37	.8	36.87	-	-	74	-37.13	0	100	H
3.058	28.54	Ca	32.8	-37	.8	25.14	-	-28.86	-	-	0	100	H
3.074	40.71	Pk	32.9	-37.1	.9	37.41	-	-	74	-36.59	0	100	V
3.074	28.79	Ca	32.9	-37.1	.9	25.49	-	-28.51	-	-	0	100	V
6.415	39.55	Pk	35.3	-30.9	.8	44.75	-	-	74	-29.25	0	100	H
6.415	27.34	Ca	35.3	-30.9	.8	32.54	-	-21.46	-	-	0	100	H
6.433	39.7	Pk	35.3	-30.9	.8	44.9	-	-	74	-29.1	0	100	V
6.433	27.46	Ca	35.3	-30.9	.8	32.66	-	-21.34	-	-	0	100	V

Pk - Peak detector
 Ca - CISPR average detection

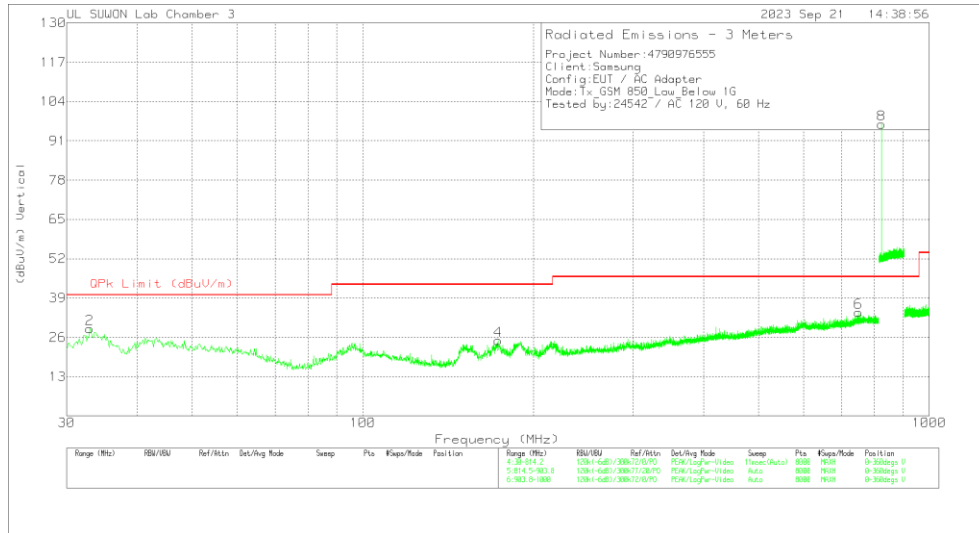
7.1.10. Below 1 GHz in the GSM850

LOW CHANNEL(869.2 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

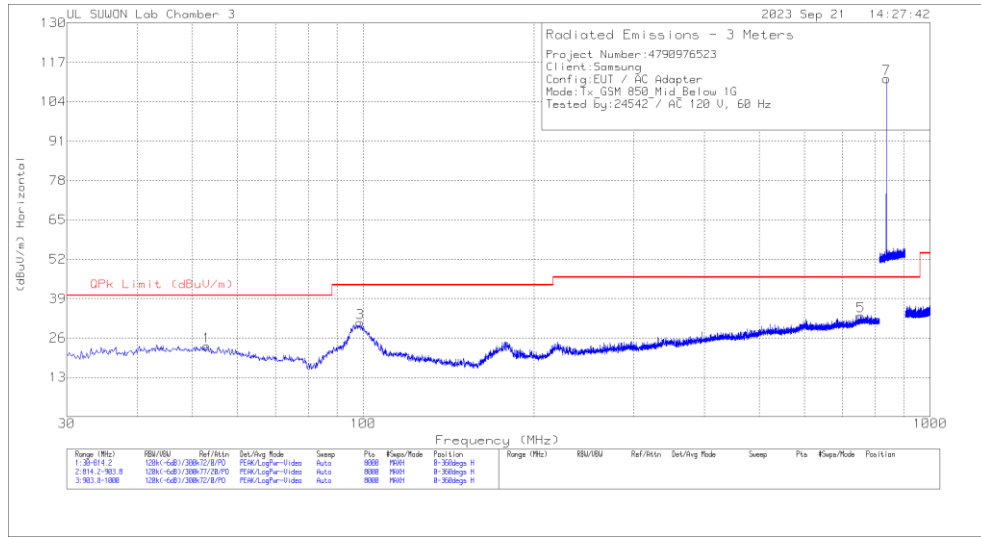
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor(dB(1/m))	Path Loss(dB)	Corrected Reading (dBuV/m)	QPK Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	51.3721	2.54	Pk	19.7	1.3	23.54	40	-16.46	0-360	100	H
3	96.371	8.15	Pk	17	1.7	26.85	43.52	-16.67	0-360	200	H
5	772.7283	3.61	Pk	25.9	4	33.51	46.02	-12.51	0-360	100	H
7	824.2025	59.36	Pk	26.1	4.1	89.56	46.02	43.54	0-360	200	H
2	32.9411	11.87	Pk	15.9	1.1	28.87	40	-11.13	0-360	300	V
4	173.3301	8.2	Pk	14.5	2.2	24.9	43.52	-18.62	0-360	200	V
6	749.3955	4.51	Pk	25.9	3.9	34.31	46.02	-11.71	0-360	400	V
8	824.2685	66.23	Pk	26.1	4.1	96.43	46.02	50.41	0-360	100	V

Pk - Peak detector

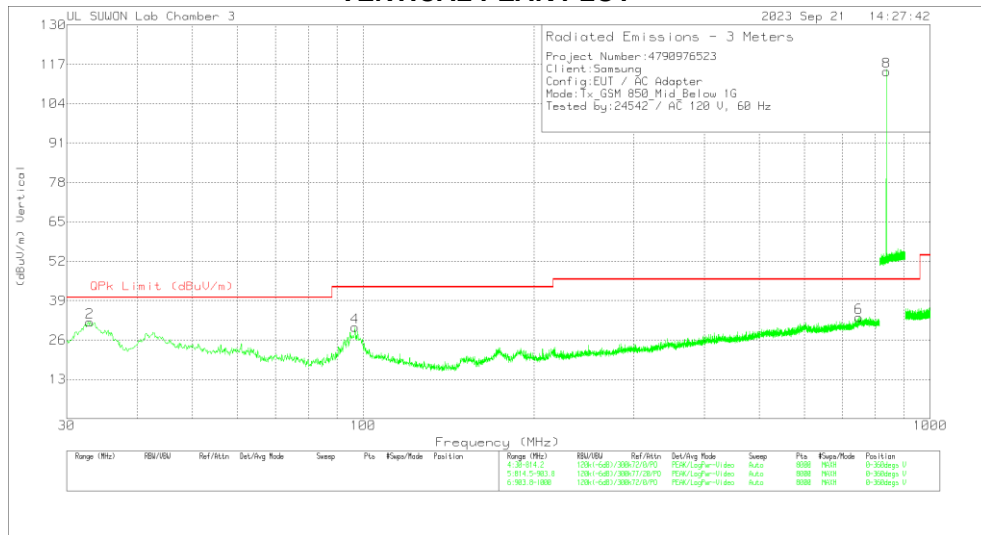
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(881.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

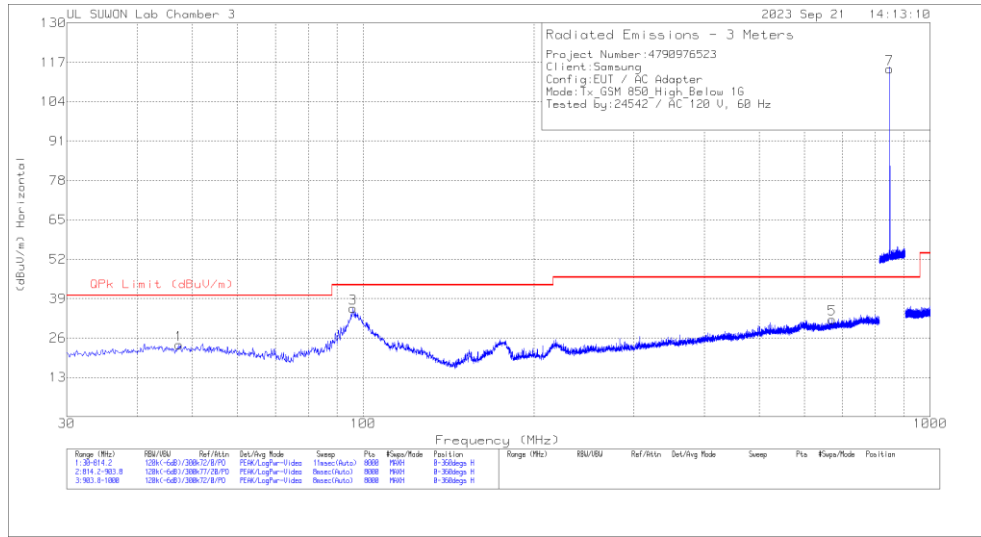
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor[dB(1/m)]	Path Loss(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	52.9407	2.35	Pk	19.6	1.3	23.25	40	-16.75	0-360	200	H
3	98.7239	12.11	Pk	17.2	1.7	31.01	43.52	-12.51	0-360	200	H
5	754.1013	3.36	Pk	26	3.9	33.26	46.02	-12.76	0-360	200	H
7	836.9828	81.14	Pk	26.3	4.1	111.54	46.02	65.52	0-360	300	H
2	32.9411	14.97	Pk	15.9	1.1	31.97	40	-8.03	0-360	200	V
4	96.6652	11.46	Pk	17	1.7	30.16	43.52	-13.36	0-360	200	V
6	748.8073	3.62	Pk	25.9	3.9	33.42	46.02	-12.6	0-360	400	V
8	836.9955	84.27	Pk	26.3	4.1	114.67	46.02	68.65	0-360	100	V

Pk - Peak detector

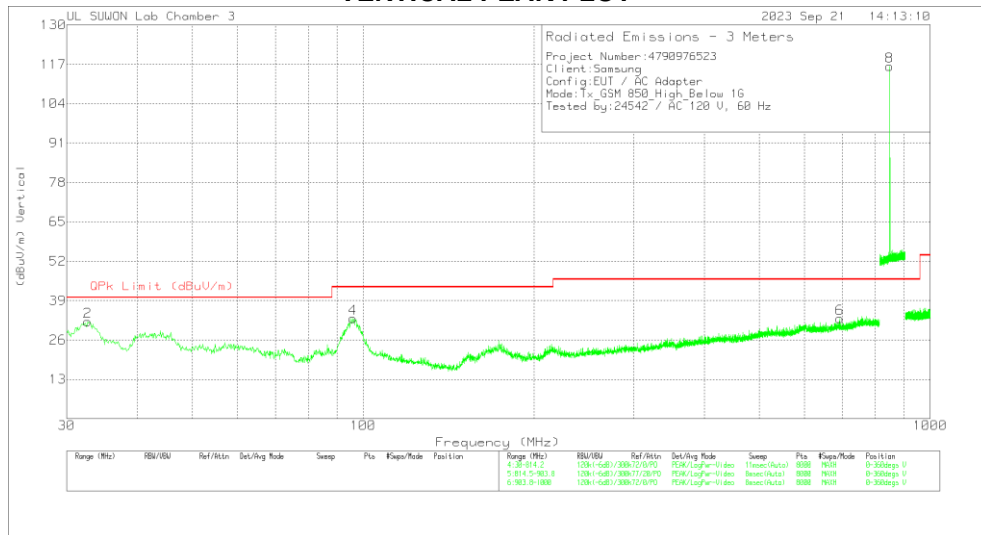
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(893.8 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor(dB(1/m))	Path Loss(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	47.3525	2.76	Pk	19.7	1.3	23.76	40	-16.24	0-360	100	H
3	95.9789	17.1	Pk	17	1.7	35.8	43.52	-7.72	0-360	200	H
5	671.9463	3.88	Pk	24.5	3.8	32.18	46.02	-13.84	0-360	200	H
7	848.8335	84.06	Pk	26.6	4.2	114.86	46.02	68.84	0-360	200	H
2	32.647	15.17	Pk	15.8	1.1	32.07	40	-7.93	0-360	200	V
4	95.8809	14.4	Pk	17	1.7	33.1	43.52	-10.42	0-360	200	V
6	692.534	4.62	Pk	24.7	3.8	33.12	46.02	-12.9	0-360	300	V
8	848.8293	85.48	Pk	26.6	4.2	116.28	46.02	70.26	0-360	100	V

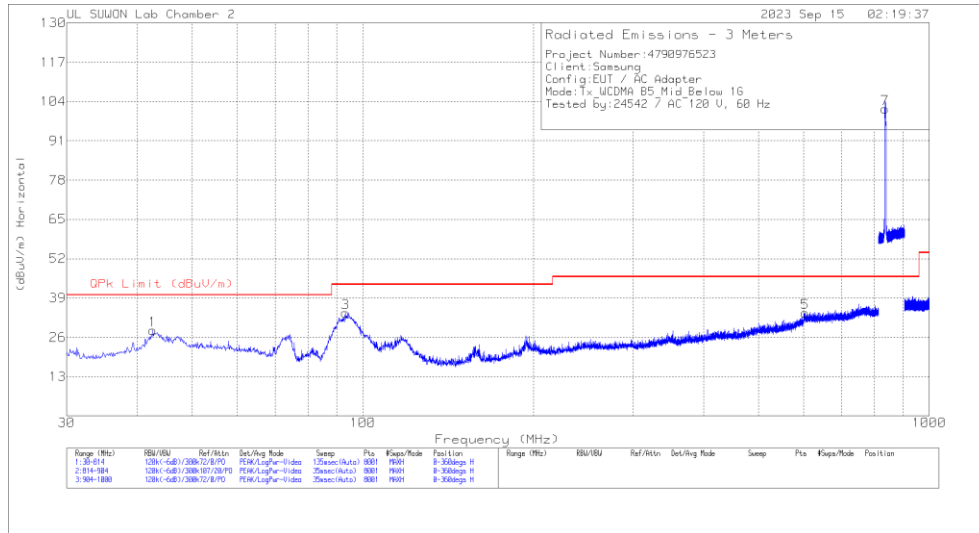
Pk - Peak detector

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

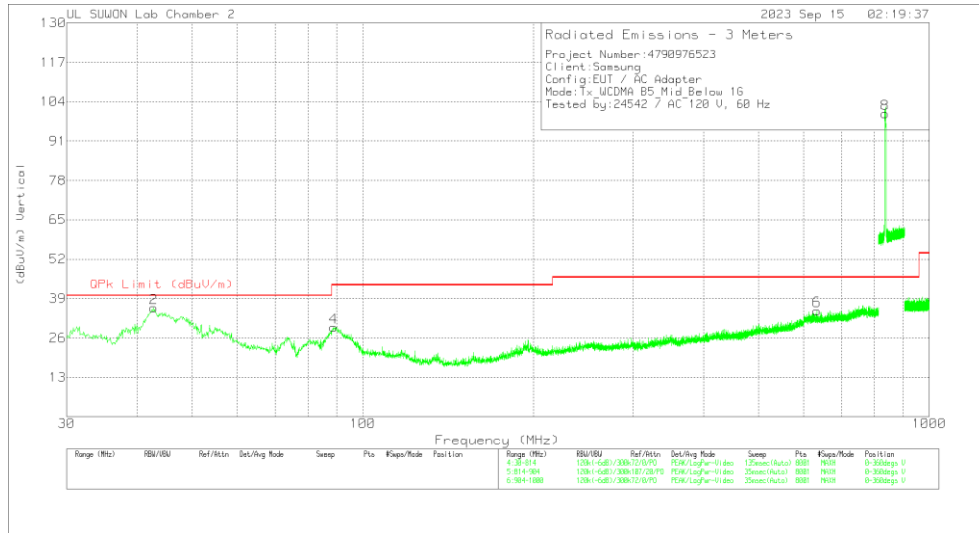
7.1.11. Below 1 GHz in the WCDMA Band 5

MID CHANNEL(881.6 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor(dB(1/m))	Path Loss(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	42.544	8.21	Pk	19.4	.8	28.41	40	-11.59	0-360	200	H
3	93.112	16.67	Pk	16.3	1.2	34.17	43.52	-9.35	0-360	200	H
5	603.594	6.16	Pk	24.9	3.1	34.16	46.02	-11.86	0-360	100	H
7	836.6013	71.21	Pk	26.6	3.7	101.51	46.02	55.49	0-360	200	H
2	42.74	15.87	Pk	19.4	.8	36.07	40	-3.93	0-360	100	V
4	88.898	12.75	Pk	15.7	1.1	29.55	43.52	-13.97	0-360	100	V
6	633.386	7.06	Pk	24.8	3.2	35.06	46.02	-10.96	0-360	300	V
8	836.6013	69.71	Pk	26.6	3.7	100.01	46.02	53.99	0-360	100	V

Pk - Peak detector

Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor[dB(1/m)]	Path Loss(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
42.74	12.55	Qp	19.4	.8	32.75	40	-7.25	142	100	V

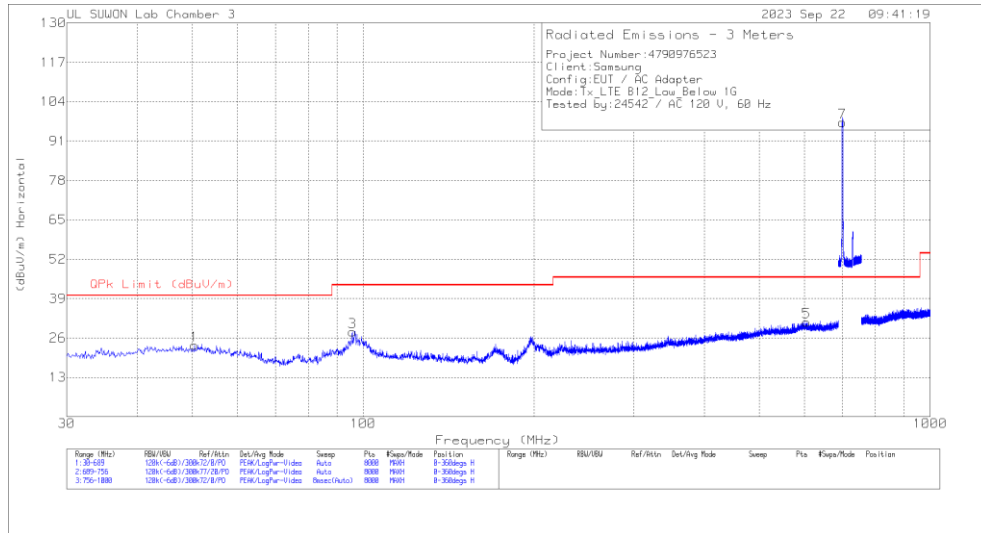
Qp - Quasi-Peak detector

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

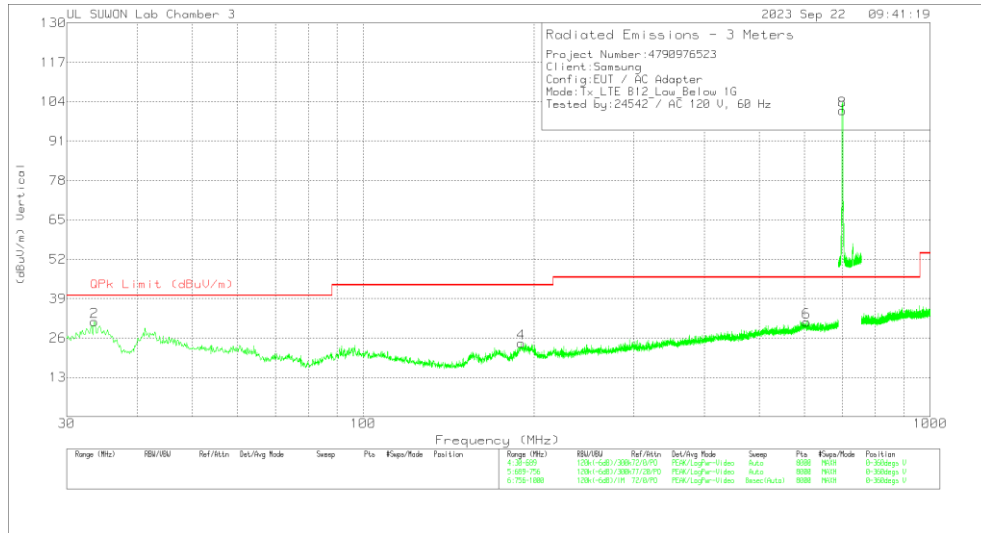
7.1.12. Below 1 GHz in the LTE Band 12

LOW CHANNEL(731.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

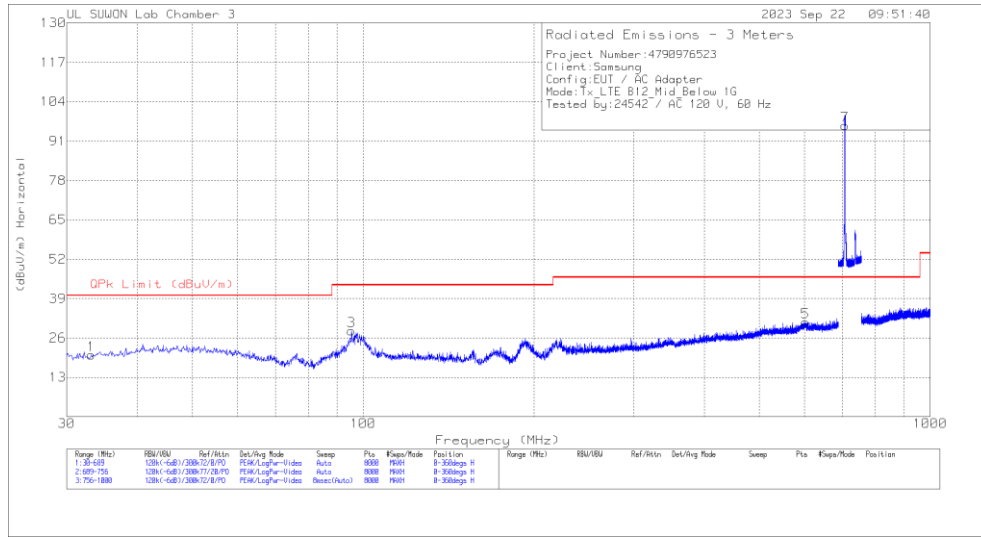
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor[dB(1/m)]	Path Loss(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	50.4315	2.58	Pk	19.8	1.3	23.68	40	-16.32	0-360	100	H
3	95.6608	9.4	PK	17	1.7	28.1	43.52	-15.42	0-360	200	H
5	604.8825	3.33	Pk	24.4	3.6	31.33	46.02	-14.69	0-360	100	H
7	700.5924	68.64	Pk	24.7	3.8	97.14	46.02	51.12	0-360	200	H
2	33.5426	14.2	Pk	16.1	1.1	31.4	40	-8.6	0-360	200	V
4	189.9917	6.04	PK	16.1	2.2	24.34	43.52	-19.18	0-360	200	V
6	604.9649	3.18	Pk	24.4	3.6	31.18	46.02	-14.84	0-360	400	V
8	700.5756	72.5	Pk	24.7	3.8	101	46.02	54.98	0-360	100	V

Pk - Peak detector

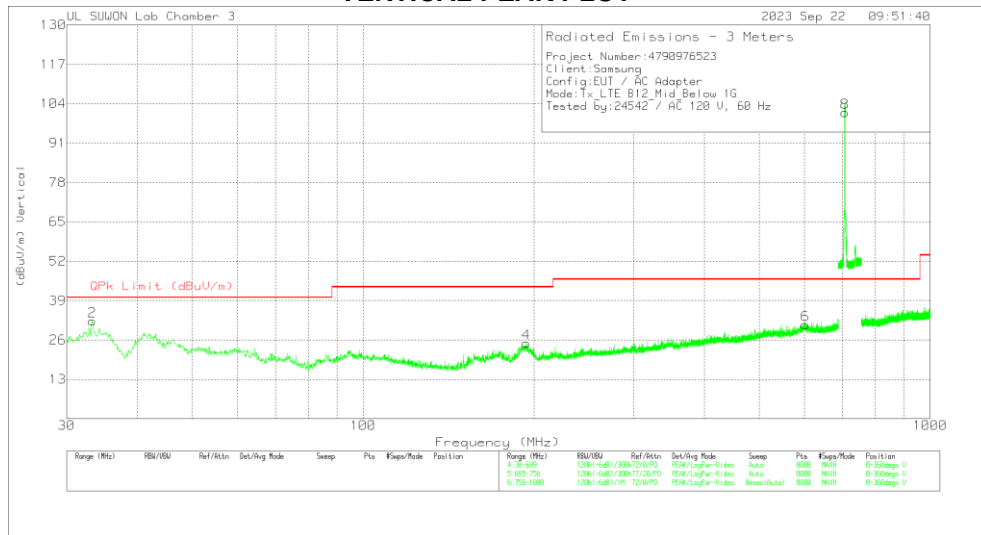
Note: Unwanted emissions captured from 699MHz to 716MHz and from 729MHz to 746MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(737.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

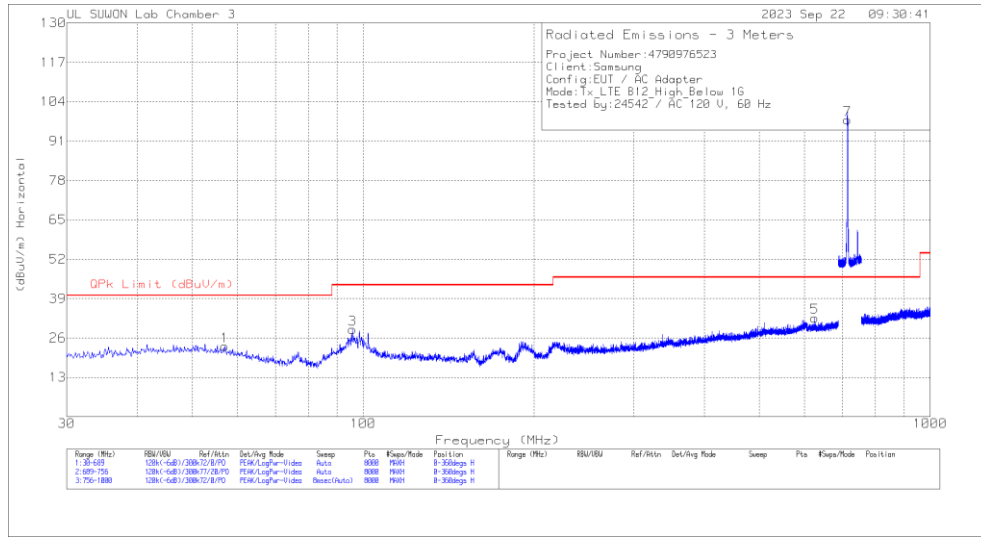
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor(dB(1/m))	Path Loss(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	33.1306	3.35	Pk	16	1.1	20.45	40	-19.55	0-360	200	H
3	95.4137	9.79	Pk	16.9	1.7	28.39	43.52	-15.13	0-360	200	H
5	602.4934	3.34	Pk	24.3	3.6	31.24	46.02	-14.78	0-360	200	H
7	707.511	67.66	Pk	24.7	3.8	96.16	46.02	50.14	0-360	200	H
2	33.2954	15.13	Pk	16	1.1	32.23	40	-7.77	0-360	200	V
4	193.9462	6.02	Pk	16.6	2.3	24.92	43.52	-18.6	0-360	200	V
6	602.3286	3.23	Pk	24.3	3.6	31.13	46.02	-14.89	0-360	400	V
8	707.5026	72.6	Pk	24.7	3.8	101.1	46.02	55.08	0-360	100	V

Pk - Peak detector

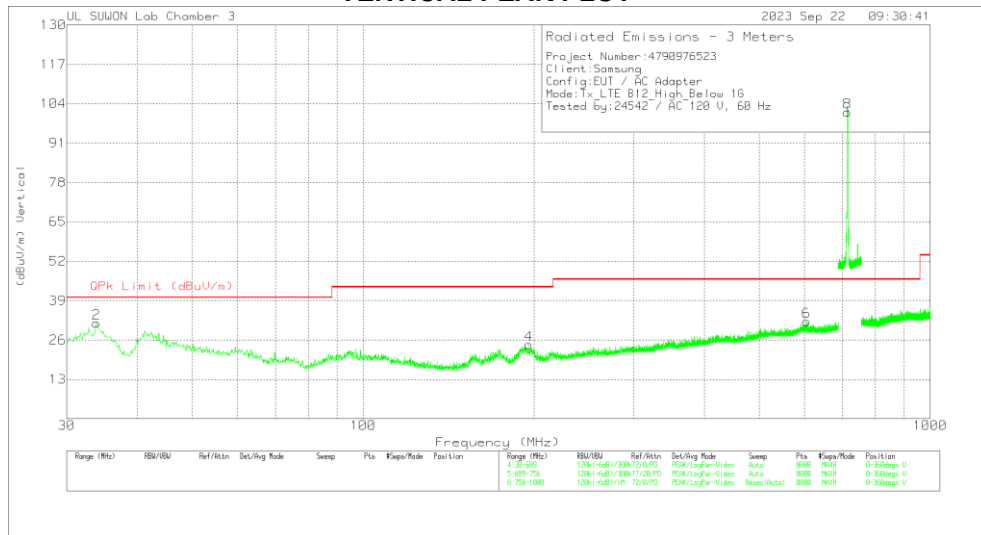
Note: Unwanted emissions captured from 699MHz to 716MHz and from 729MHz to 746MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(743.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor[dB(1/m)]	Path Loss(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	57.0223	2.92	Pk	19	1.4	23.32	40	-16.68	0-360	100	H
3	95.7844	10.19	Pk	17	1.7	28.89	43.52	-14.63	0-360	200	H
5	625.8907	4.79	Pk	24.3	3.6	32.69	46.02	-13.33	0-360	300	H
7	714.5384	69.35	Pk	24.7	3.9	97.95	46.02	51.93	0-360	200	H
2	33.8721	14.26	Pk	16.2	1.1	31.56	40	-8.44	0-360	200	V
4	195.9234	5.21	Pk	16.9	2.3	24.41	43.52	-19.11	0-360	200	V
6	605.7888	4.1	Pk	24.4	3.6	32.1	46.02	-13.92	0-360	200	V
8	714.5468	72.63	Pk	24.7	3.9	101.23	46.02	55.21	0-360	100	V

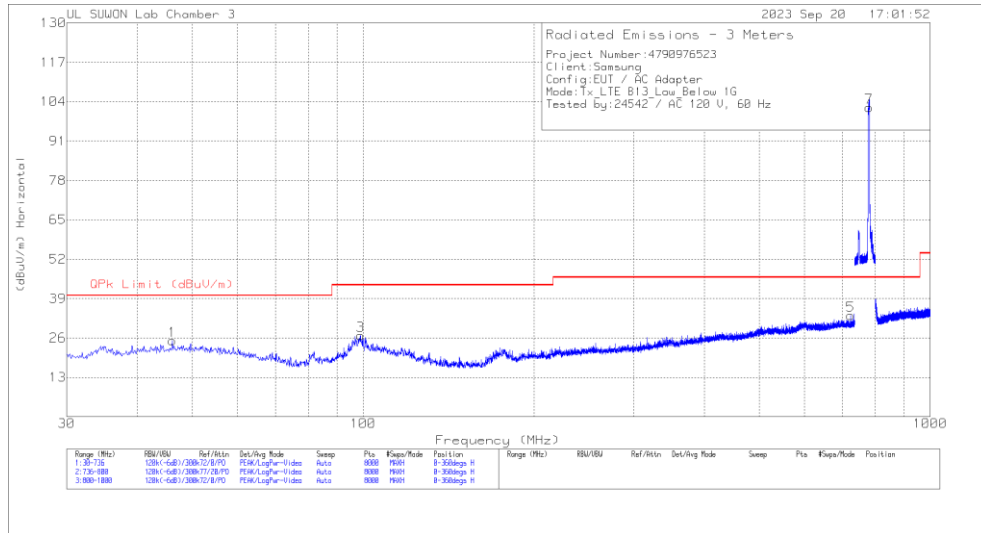
Pk - Peak detector

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

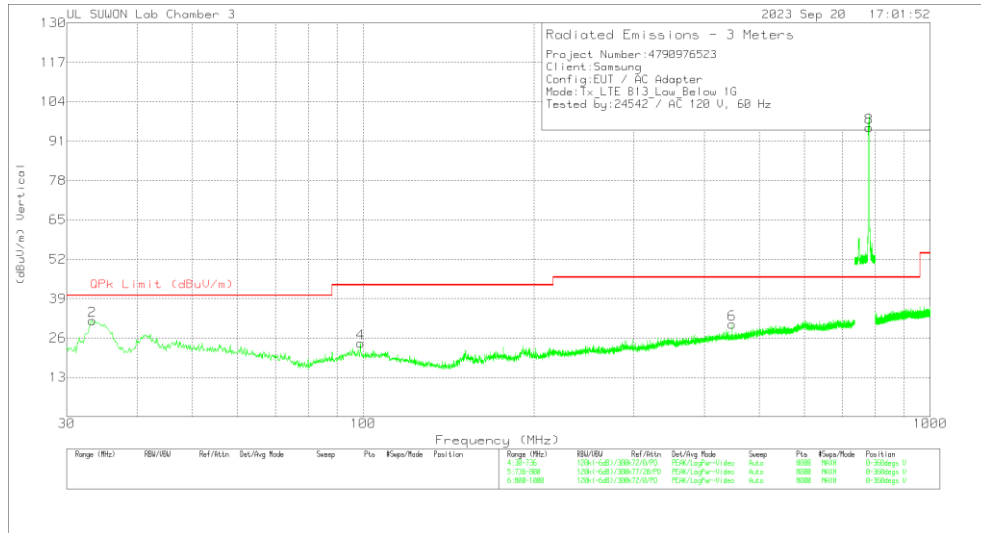
7.1.13. Below 1 GHz in the LTE Band 13

LOW CHANNEL(748.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

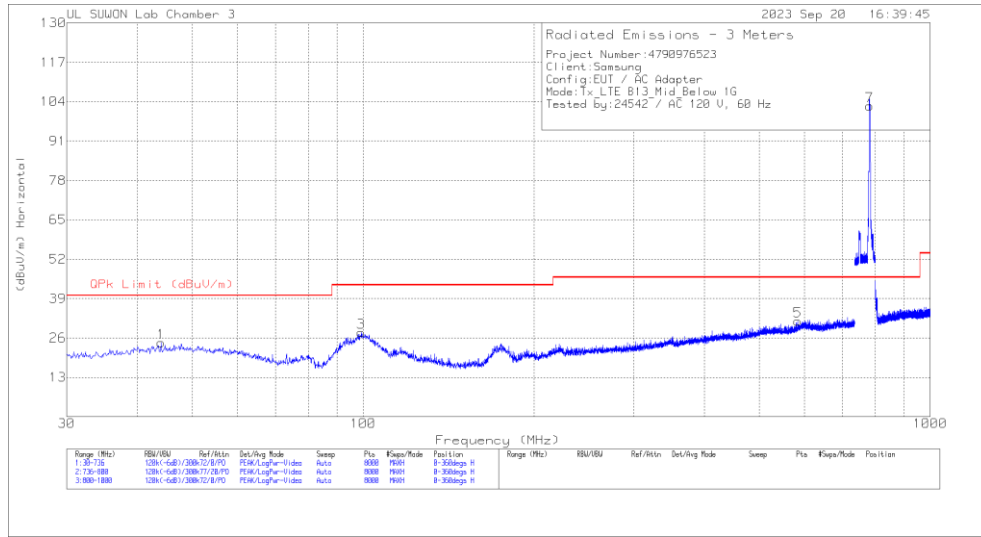
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor(dB(1/m))	Path Loss(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	46.0635	4.14	Pk	19.7	1.3	25.14	40	-14.86	0-360	100	H
3	98.9318	7.97	Pk	17.2	1.7	26.87	43.52	-16.65	0-360	200	H
5	724.5258	4.67	Pk	24.9	3.9	33.47	46.02	-12.55	0-360	100	H
7	779.5814	72.14	Pk	25.9	4	102.04	46.02	56.02	0-360	100	H
2	33.2657	14.62	Pk	16	1.1	31.72	40	-8.28	0-360	200	V
4	98.9318	5.46	Pk	17.2	1.7	24.36	43.52	-19.16	0-360	400	V
6	447.2097	5.91	Pk	21.4	3.2	30.51	46.02	-15.51	0-360	400	V
8	779.5814	65.71	Pk	25.7	4	95.41	46.02	49.39	0-360	100	V

Pk - Peak detector

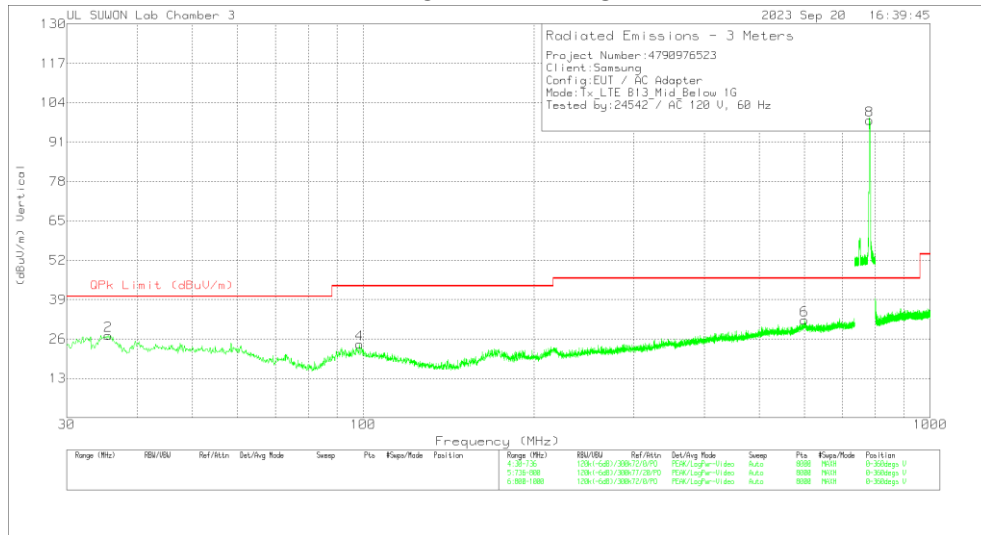
Note: Unwanted emissions captured from 777MHz to 787MHz and from 746MHz to 756MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(751.0 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

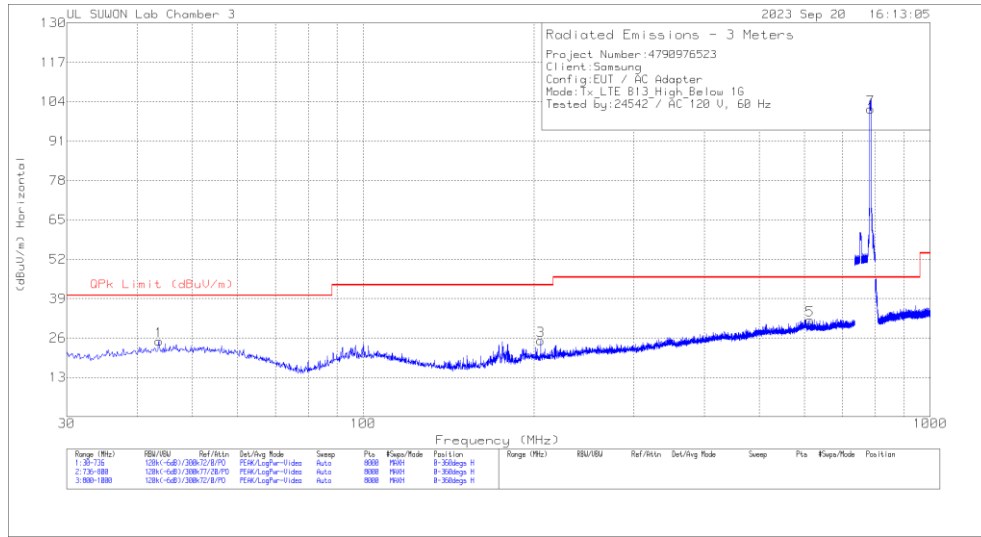
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor(dB(1/m))	Path Loss(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	44.0335	3.67	Pk	19.5	1.3	24.47	40	-15.53	0-360	100	H
3	99.1966	9.03	Pk	17.2	1.7	27.93	43.52	-15.59	0-360	200	H
5	583.6613	4.29	Pk	23.8	3.5	31.59	46.02	-14.43	0-360	300	H
7	782.0298	72.68	PK	25.9	4	102.58	46.02	56.56	0-360	100	H
2	35.4722	9.15	Pk	16.9	1.2	27.25	40	-12.75	0-360	200	V
4	98.4905	5.52	Pk	17.1	1.7	24.32	43.52	-19.2	0-360	200	V
6	600.1661	4.29	Pk	24.3	3.6	32.19	46.02	-13.83	0-360	400	V
8	782.0458	68.47	Pk	25.7	4	98.17	46.02	52.15	0-360	200	V

Pk - Peak detector

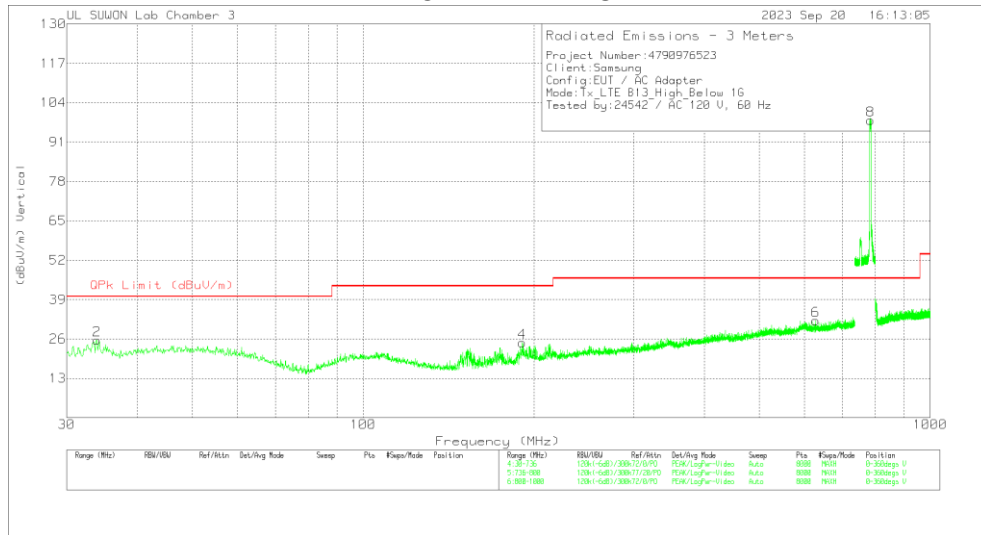
Note: Unwanted emissions captured from 777MHz to 787MHz and from 746MHz to 756MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(753.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor(dB(1/m))	Path Loss(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	43.6805	4.24	Pk	19.5	1.2	24.94	40	-15.06	0-360	200	H
3	205.6394	6.59	Pk	16.3	2.3	25.19	43.52	-18.33	0-360	100	H
5	613.7583	4.1	Pk	24.3	3.6	32	46.02	-14.02	0-360	200	H
7	784.5581	71.66	PK	25.9	4	101.56	46.02	55.54	0-360	100	H
2	33.8835	8.28	Pk	16.3	1.1	25.68	40	-14.32	0-360	200	V
4	190.8115	6.45	Pk	16.2	2.2	24.85	43.52	-18.67	0-360	200	V
6	627.88	4.19	Pk	24.3	3.6	32.09	46.02	-13.93	0-360	400	V
8	784.5501	68.36	Pk	25.8	4	98.16	46.02	52.14	0-360	100	V

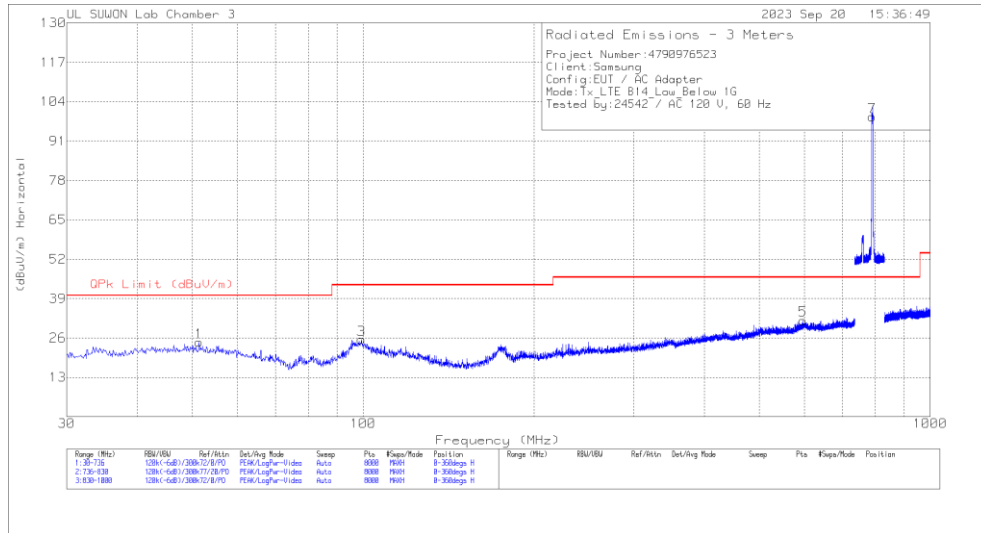
Pk - Peak detector

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

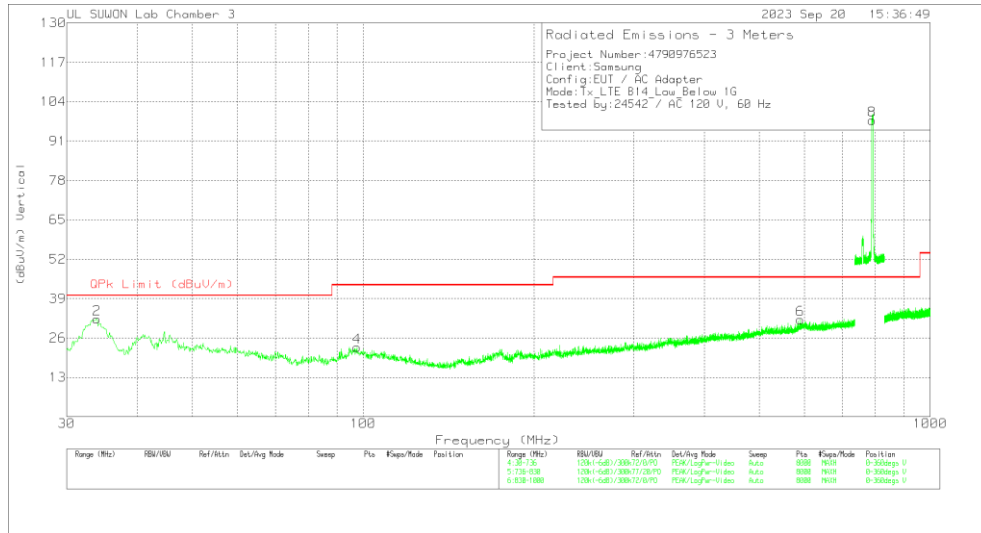
7.1.14. Below 1 GHz in the LTE Band 14

LOW CHANNEL(760.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

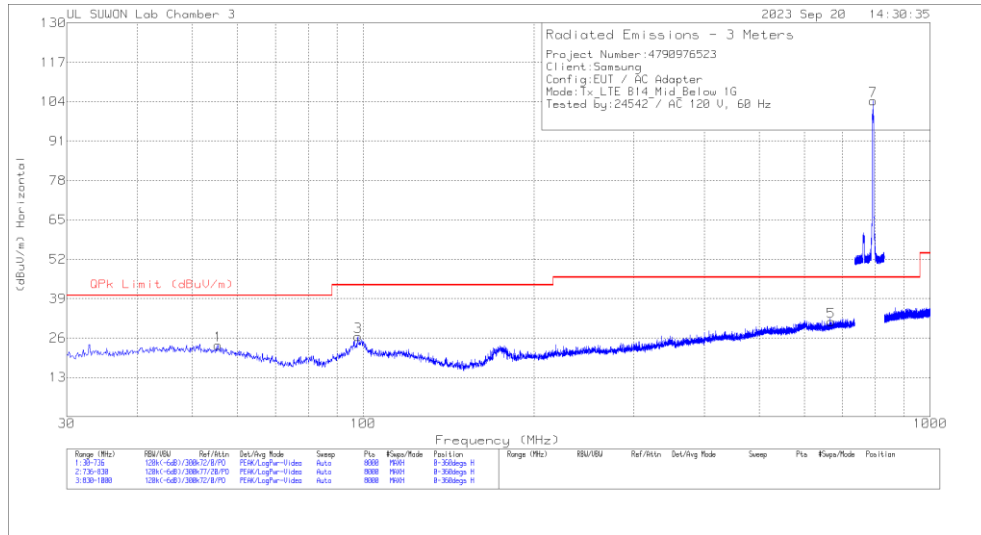
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor(dB(1/m))	Path Loss(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	51.3592	3.59	Pk	19.7	1.3	24.59	40	-15.41	0-360	100	H
3	99.2849	6.54	Pk	17.2	1.7	25.44	43.52	-18.08	0-360	200	H
5	596.7239	3.94	Pk	24.3	3.6	31.84	46.02	-14.18	0-360	300	H
7	790.5599	69.13	Pk	25.9	4	99.03	46.02	53.01	0-360	200	H
2	33.8835	14.79	Pk	16.3	1.1	32.19	40	-7.81	0-360	200	V
4	97.5197	4.11	Pk	17.1	1.7	22.91	43.52	-20.61	0-360	400	V
6	590.7221	4.32	Pk	24.1	3.6	32.02	46.02	-14	0-360	400	V
8	790.5599	68.09	Pk	25.8	4	97.89	46.02	51.87	0-360	100	V

Pk - Peak detector

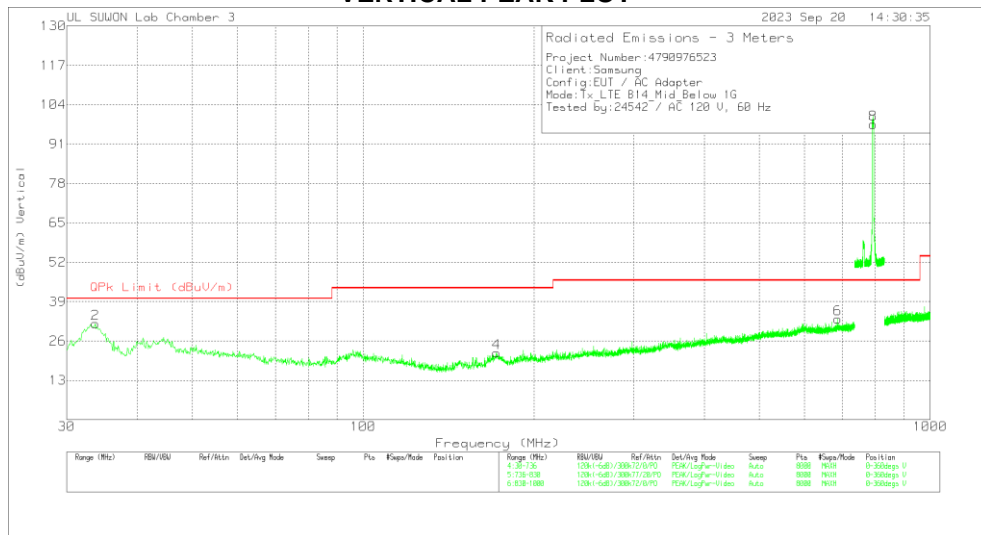
Note: Unwanted emissions captured from 788MHz to 798MHz and from 758MHz to 768MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(763 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

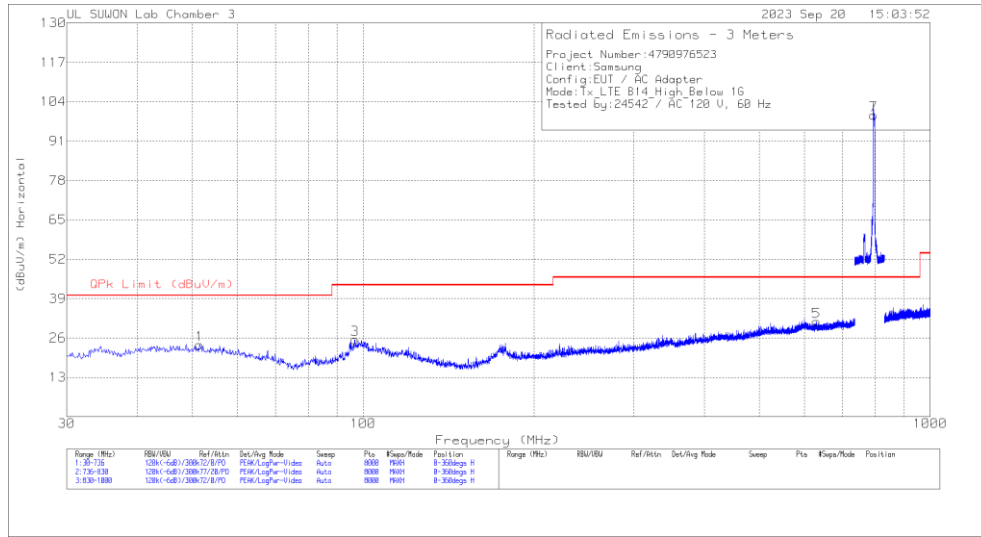
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor[dB(1/m)]	Path Loss(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	55.4192	2.92	Pk	19.3	1.4	23.62	40	-16.38	0-360	300	H
3	97.8727	7.66	Pk	17.1	1.7	26.46	43.52	-17.06	0-360	200	H
5	669.2744	3.13	Pk	24.5	3.8	31.43	46.02	-14.59	0-360	100	H
7	793.0276	74.45	Pk	25.9	4	104.35	46.02	58.33	0-360	100	H
2	33.707	14.42	Pk	16.2	1.1	31.72	40	-8.28	0-360	100	V
4	171.7472	5.5	Pk	14.5	2.1	22.1	43.52	-21.42	0-360	100	V
6	687.721	4.78	Pk	24.7	3.8	33.28	46.02	-12.74	0-360	100	V
8	793.0394	67.76	Pk	25.8	4	97.56	46.02	51.54	0-360	100	V

Pk - Peak detector

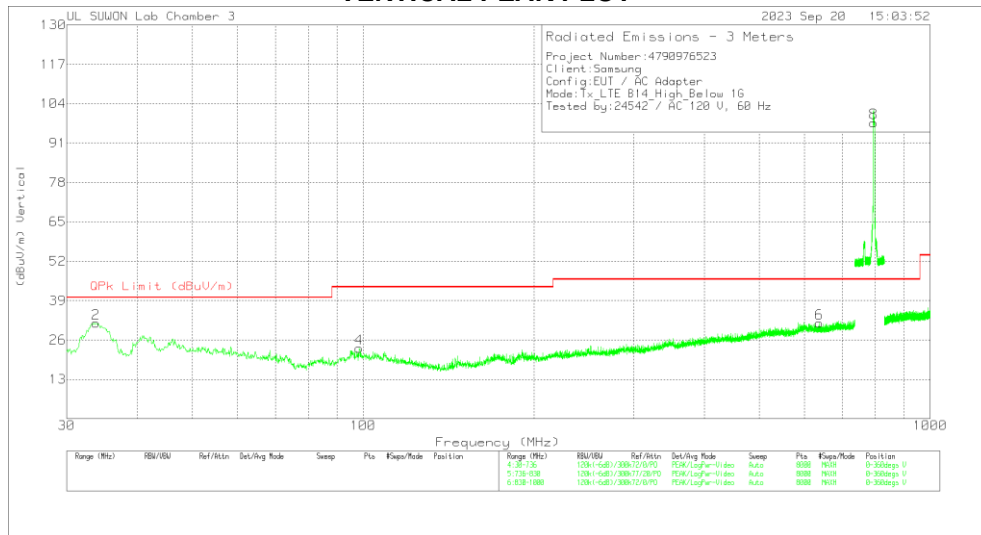
Note: Unwanted emissions captured from 788MHz to 798MHz and from 758MHz to 768MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(765.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor[dB(1/m)]	Path Loss(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	51.4474	2.84	Pk	19.7	1.3	23.84	40	-16.16	0-360	100	H
3	96.6371	6.75	Pk	17	1.7	25.45	43.52	-18.07	0-360	200	H
5	630.2631	3.35	Pk	24.3	3.7	31.35	46.02	-14.67	0-360	300	H
7	795.5071	69.63	Pk	25.9	4	99.53	46.02	53.51	0-360	200	H
2	33.7952	14.27	Pk	16.2	1.1	31.57	40	-8.43	0-360	200	V
4	98.4023	4.42	Pk	17.1	1.7	23.22	43.52	-20.3	0-360	200	V
6	637.4122	3.52	Pk	24.3	3.7	31.52	46.02	-14.5	0-360	400	V
8	795.5071	67.96	Pk	25.8	4	97.76	46.02	51.74	0-360	100	V

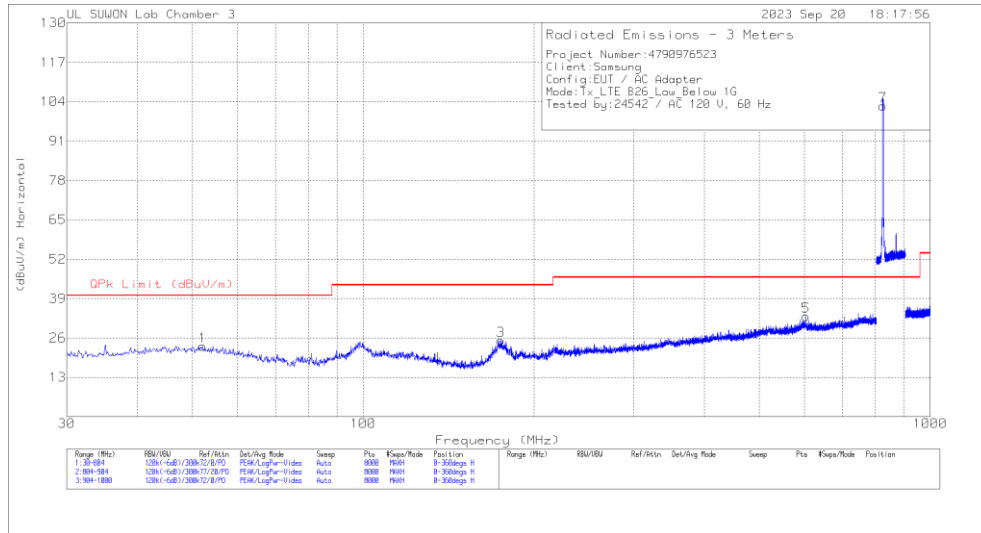
Pk - Peak detector

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

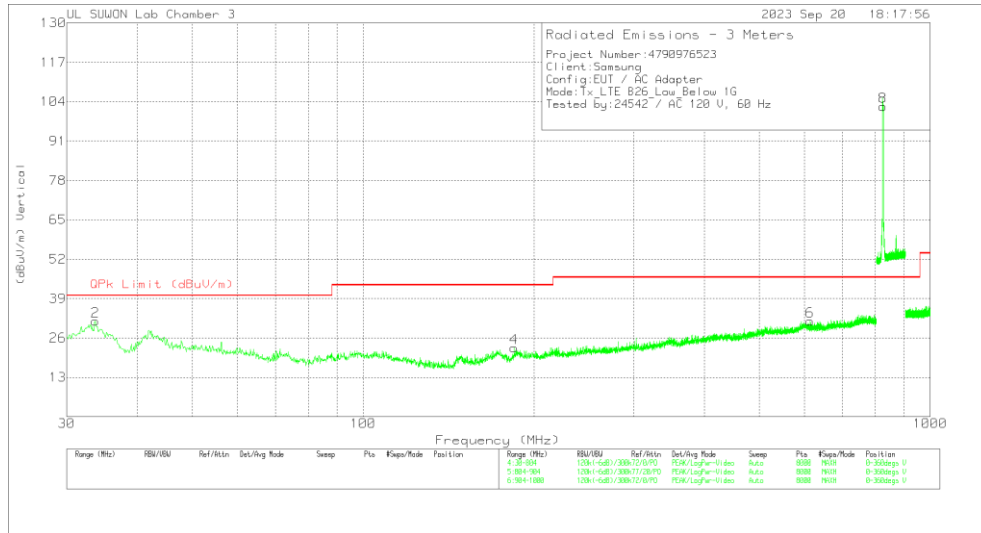
7.1.15. Below 1 GHz in the LTE Band 26

LOW CHANNEL(861.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

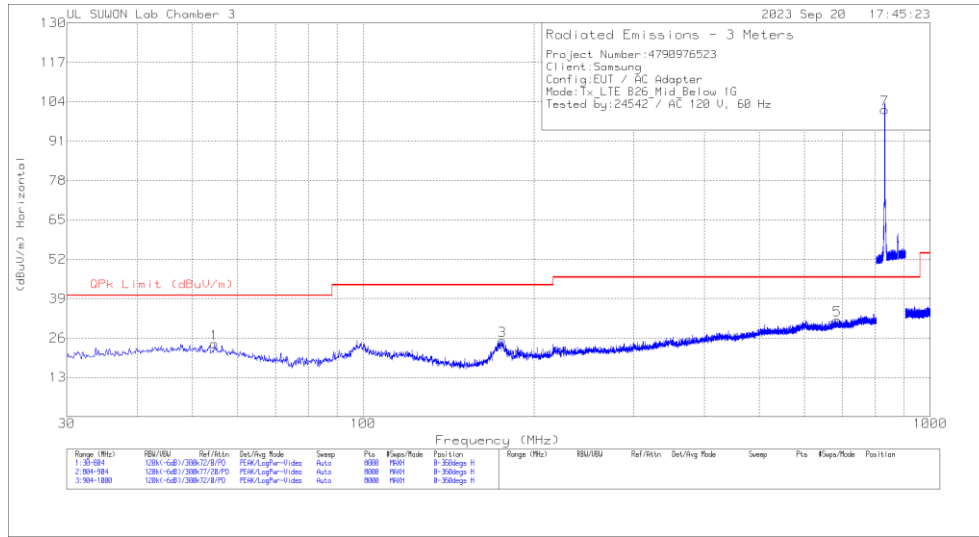
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor(dB(1/m))	Path Loss(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	52.0617	2.27	Pk	19.7	1.3	23.27	40	-16.73	0-360	100	H
3	174.6592	8.42	Pk	14.6	2.2	25.22	43.52	-18.3	0-360	100	H
5	604.0889	5.09	Pk	24.4	3.6	33.09	46.02	-12.93	0-360	300	H
7	825.5284	72.34	Pk	26.1	4.1	102.54	46.02	56.52	0-360	200	H
2	33.677	14.23	Pk	16.2	1.1	31.53	40	-8.47	0-360	200	V
4	184.6257	5.09	Pk	15.5	2.2	22.79	43.52	-20.73	0-360	200	V
6	613.8619	3.72	Pk	24.3	3.6	31.62	46.02	-14.4	0-360	200	V
8	825.5034	72.3	Pk	26.1	4.1	102.5	46.02	56.48	0-360	100	V

Pk - Peak detector

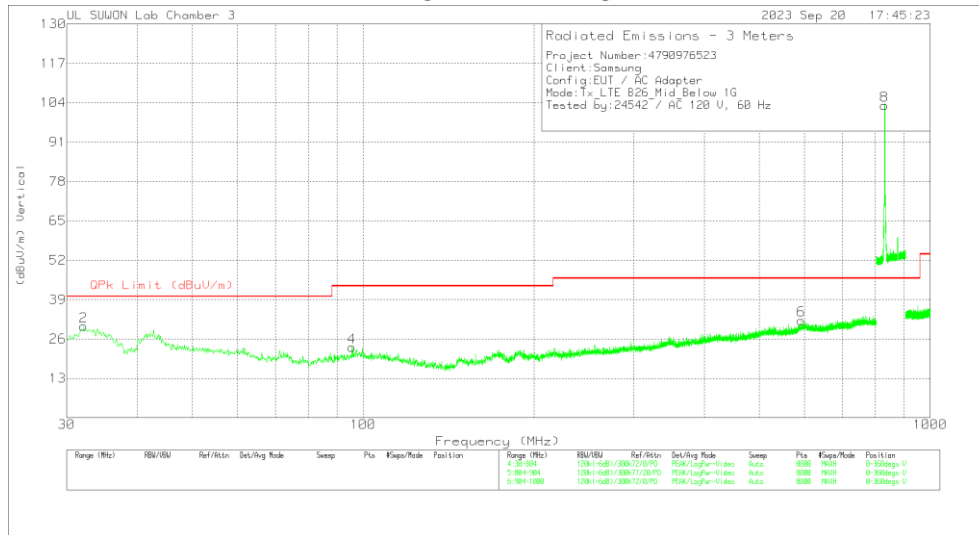
Note: Unwanted emissions captured from 814MHz to 849MHz and from 859MHz to 894MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(876.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

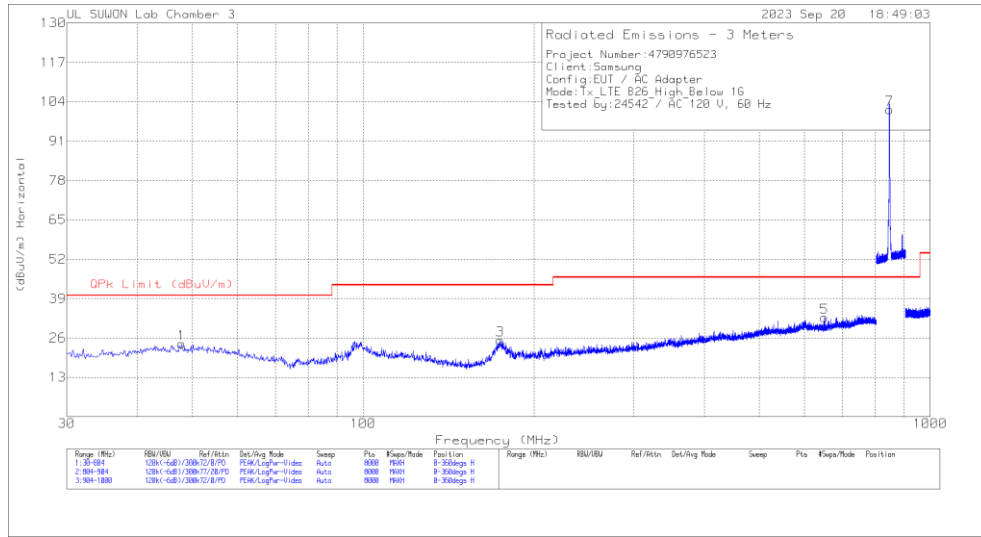
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor[dB(1/m)]	Path Loss(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	54.6743	3.5	Pk	19.3	1.4	24.2	40	-15.8	0-360	200	H
3	175.8203	8.17	Pk	14.7	2.2	25.07	43.52	-18.45	0-360	100	H
5	685.8528	3.53	Pk	24.6	3.8	31.93	46.02	-14.09	0-360	100	H
7	831.5169	71.11	Pk	26.2	4.1	101.41	46.02	55.39	0-360	200	H
2	32.1288	13.55	Pk	15.6	1.1	30.25	40	-9.75	0-360	200	V
4	95.6046	4.56	Pk	17	1.7	23.26	43.52	-20.26	0-360	200	V
6	592.5743	4.38	Pk	24.2	3.6	32.18	46.02	-13.84	0-360	200	V
8	831.5044	72.81	Pk	26.2	4.1	103.11	46.02	57.09	0-360	100	V

Pk - Peak detector

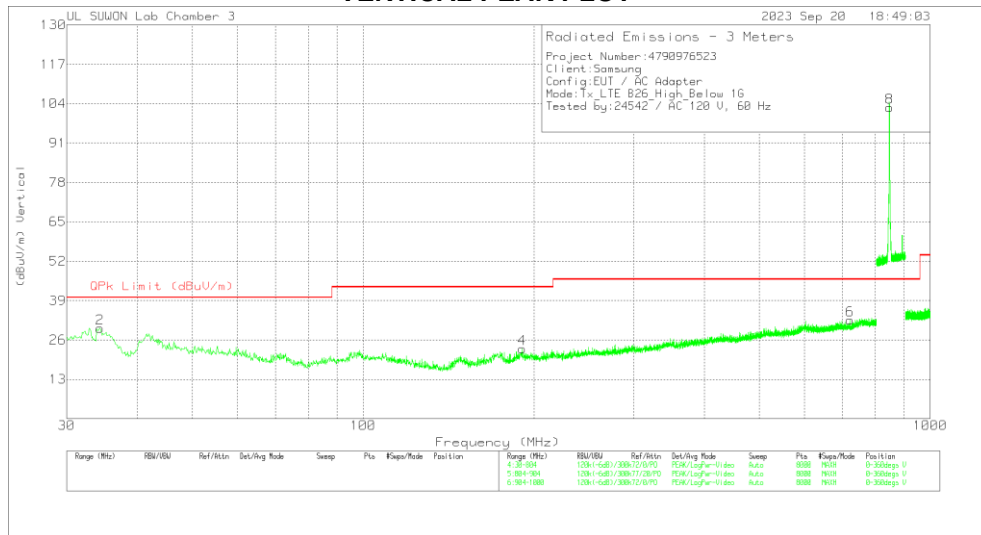
Note: Unwanted emissions captured from 814MHz to 849MHz and from 859MHz to 894MHz were the TX and RX signals generated from the call-simulator.

HIGH CHANNEL(891.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor[dB(1/m)]	Path Loss(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	47.8042	3.04	Pk	19.8	1.3	24.14	40	-15.86	0-360	200	H
3	174.4657	8.56	Pk	14.6	2.2	25.36	43.52	-18.16	0-360	100	H
5	651.5991	4.87	Pk	24.2	3.7	32.77	46.02	-13.25	0-360	200	H
7	847.5695	70.65	Pk	26.5	4.2	101.35	46.02	55.33	0-360	200	H
2	34.3543	12.35	Pk	16.4	1.1	29.85	40	-10.15	0-360	200	V
4	190.7217	4.71	Pk	16.2	2.2	23.11	43.52	-20.41	0-360	200	V
6	723.0094	3.75	Pk	24.9	3.9	32.55	46.02	-13.47	0-360	200	V
8	847.532	71.99	Pk	26.5	4.2	102.69	46.02	56.67	0-360	100	V

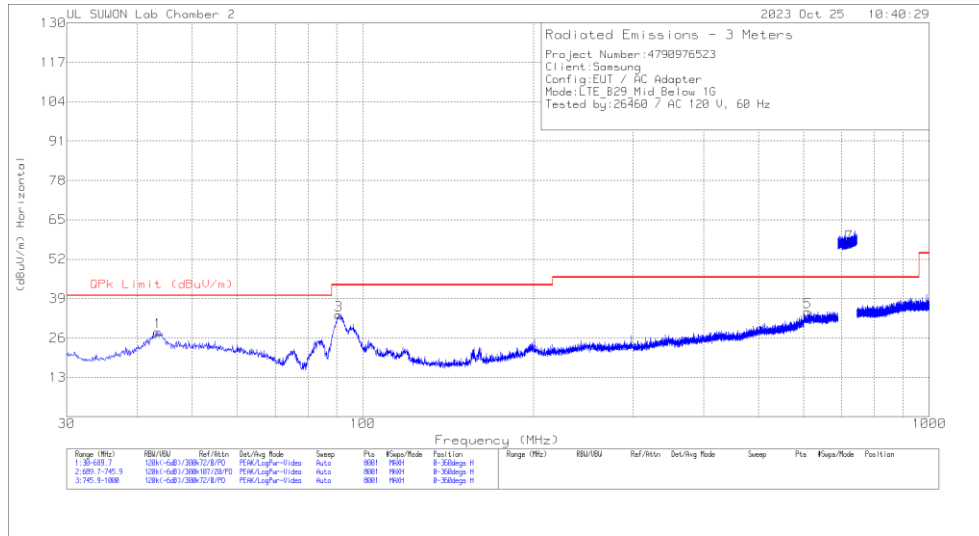
Pk - Peak detector

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

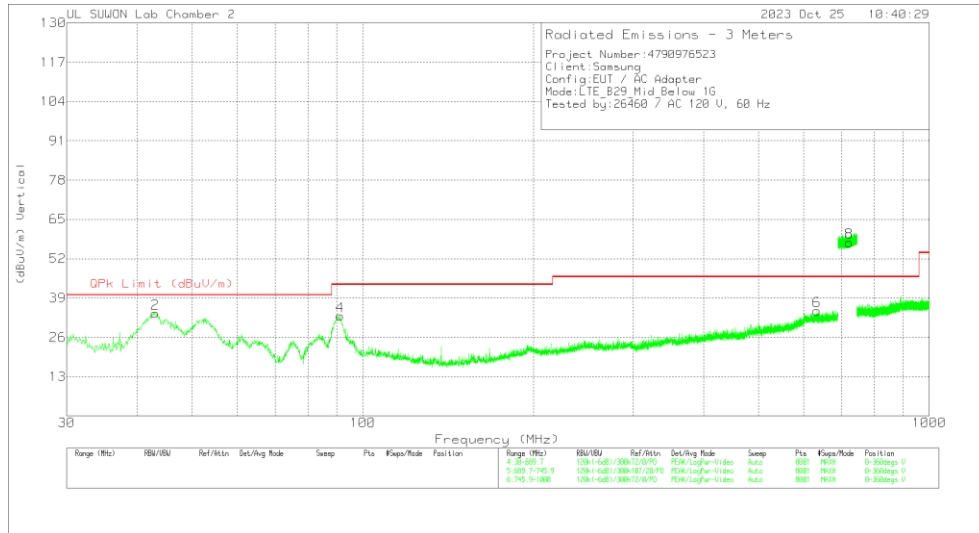
7.1.16. Below 1 GHz in the LTE Band 29 (Downlink CA)

Mid CHANNEL(772.7 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor(dB(1/m))	Path Loss(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	43.4415	7.7	Pk	19.6	.8	28.1	40	-11.9	0-360	300	H
3	90.6103	16.59	Pk	16	1.1	33.69	43.52	-9.83	0-360	200	H
5	609.7149	6.59	Pk	24.9	3.1	34.59	46.02	-11.43	0-360	100	H
7	722.7035	28.14	Pk	25.4	3.4	56.94	46.02	10.92	0-360	200	H
2	43.0292	13.68	Pk	19.5	.8	33.98	40	-6.02	0-360	200	V
4	91.1875	15.91	Pk	16.1	1.1	33.11	43.52	-10.41	0-360	200	V
6	632.9695	6.88	Pk	24.8	3.2	34.88	46.02	-11.14	0-360	300	V
8	722.7035	28.63	Pk	25.4	3.4	57.43	46.02	11.41	0-360	200	V

Pk - Peak detector

Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor[dB(1/m)]	Path Loss(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
43.0292	9.9	Qp	19.5	.8	30.2	40	-9.8	184	100	V

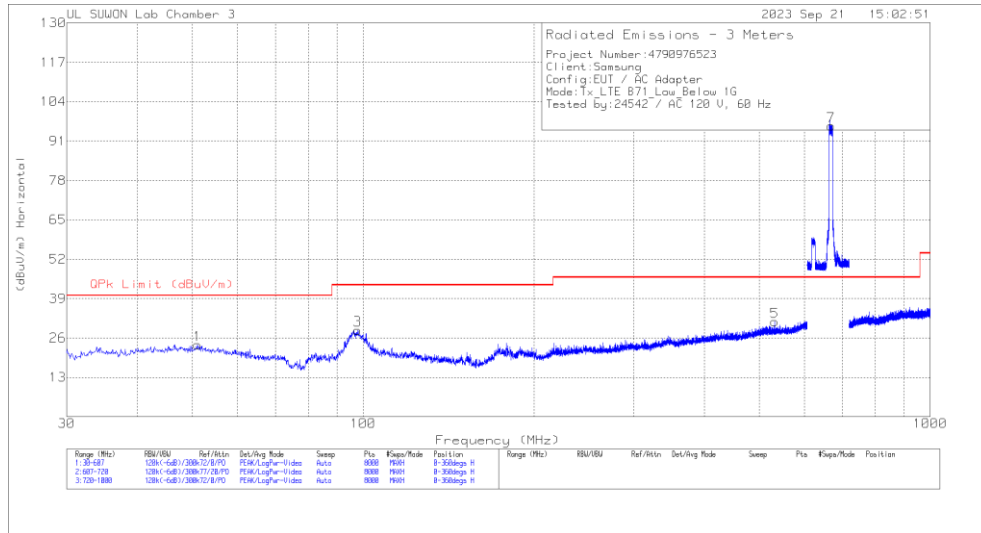
Qp - Quasi-Peak detector

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

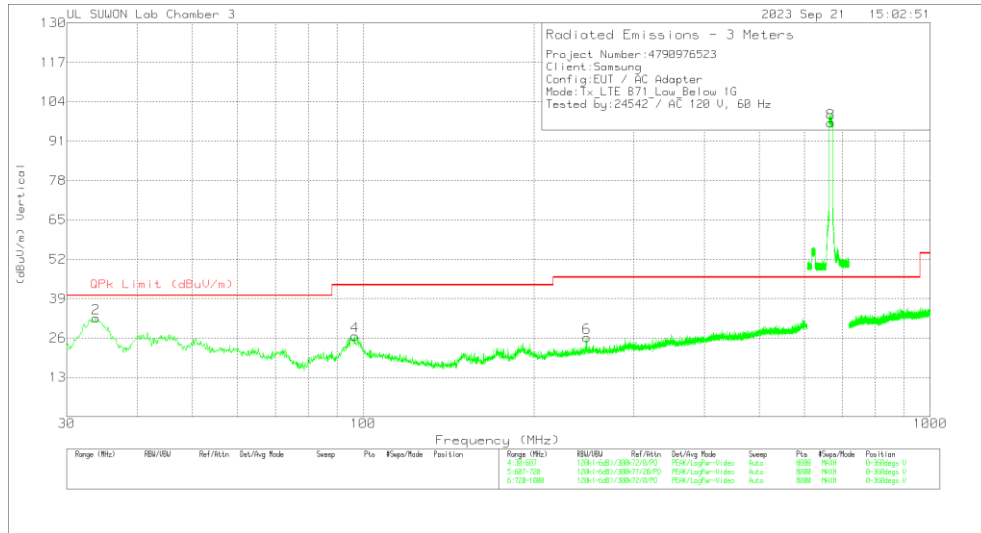
7.1.17. Below 1 GHz in the LTE Band 71

LOW CHANNEL(662 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

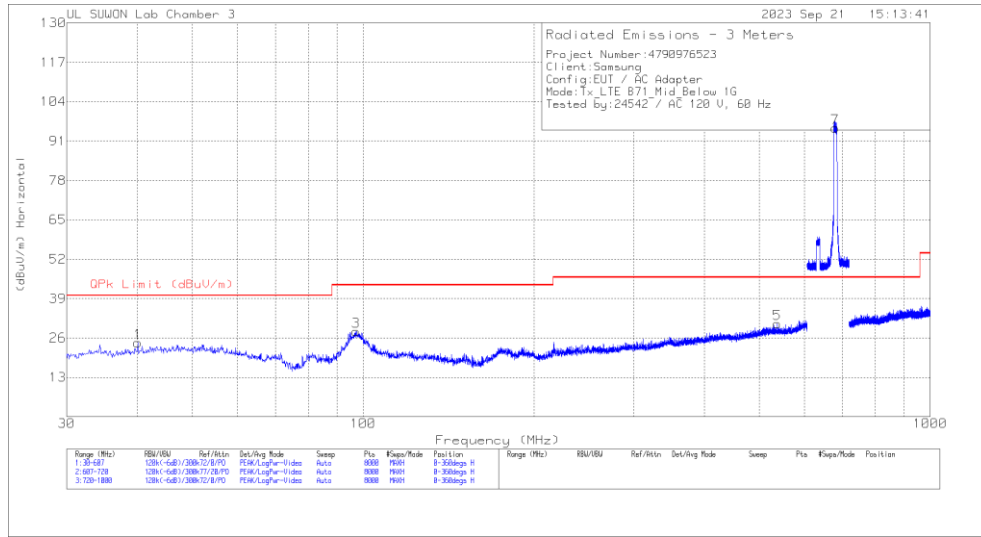
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor(dB(1/m))	Path Loss(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	51.0631	2.72	Pk	19.7	1.3	23.72	40	-16.28	0-360	200	H
3	97.7338	9.82	Pk	17.1	1.7	28.62	43.52	-14.9	0-360	100	H
5	531.4756	5.12	Pk	22.9	3.4	31.42	46.02	-14.6	0-360	300	H
7	668.1699	67.7	Pk	24.5	3.8	96	46.02	49.98	0-360	200	H
2	33.751	15.34	Pk	16.2	1.1	32.64	40	-7.36	0-360	100	V
4	96.724	8.01	Pk	17	1.7	26.71	43.52	-16.81	0-360	100	V
6	247.8447	5.5	Pk	18.2	2.5	26.2	46.02	-19.82	0-360	100	V
8	668.1275	68.73	Pk	24.5	3.8	97.03	46.02	51.01	0-360	100	V

Pk - Peak detector

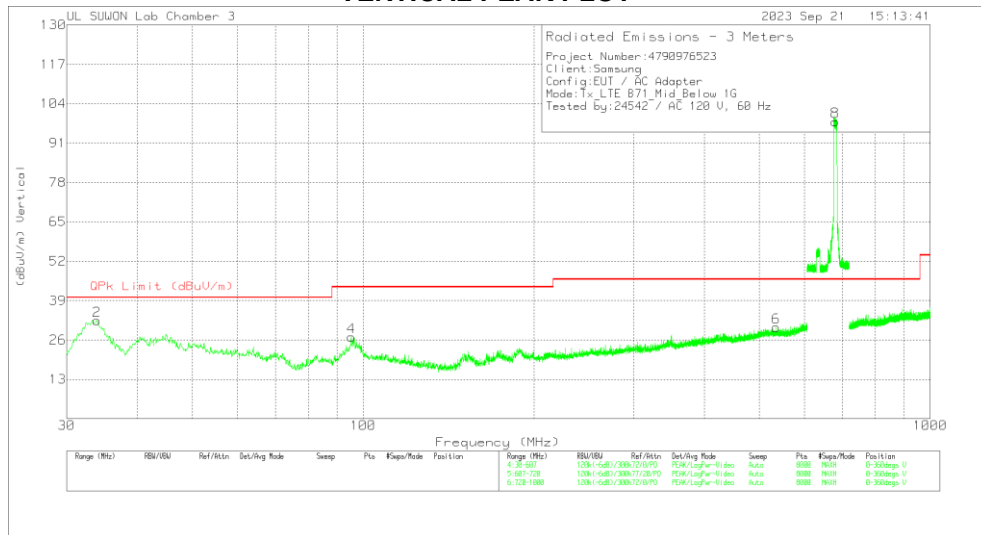
Note: Unwanted emissions captured from 663MHz to 698MHz and from 617MHz to 652MHz were the TX and RX signals generated from the call-simulator.

MID CHANNEL(634.5 MHz)

HORIZONTAL PEAK PLOT



VERTICAL PEAK PLOT



DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor(dB(1/m))	Path Loss(dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	40.0266	4.62	Pk	18.6	1.2	24.42	40	-15.58	0-360	300	H
3	97.2289	9.5	Pk	17	1.7	28.2	43.52	-15.32	0-360	200	H
5	537.4627	4.4	Pk	23	3.4	30.8	46.02	-15.22	0-360	200	H
7	680.5169	66.9	Pk	24.6	3.8	95.3	46.02	49.28	0-360	200	H
2	33.8952	15.1	Pk	16.3	1.1	32.5	40	-7.5	0-360	200	V
4	95.2813	8.35	Pk	16.9	1.7	26.95	43.52	-16.57	0-360	200	V
6	534.7216	3.75	Pk	23	3.4	30.15	46.02	-15.87	0-360	300	V
8	680.5169	69.7	Pk	24.6	3.8	98.1	46.02	52.08	0-360	100	V

Pk - 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.