



# CERTIFICATION TEST REPORT

**Report Number.** : 4790136523-E2V2

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

**Model** : SM-N986B1/DS, SM-N986B1

**FCC ID** : A3LSMN986B1

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

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

**Date Of Issue:**

2021-11-15

**Prepared by:**

UL Korea, Ltd.

26th floor, 152, Teheran-ro, Gangnam-gu Seoul, 06236, Korea

Suwon Test Site: UL Korea, Ltd. Suwon Laboratory

218 Maeyeong-ro, Yeongtong-gu,  
Suwon-si, Gyeonggi-do, 16675, Korea

TEL: (031) 337-9902

FAX: (031) 213-5433



ACCREDITED

Testing Laboratory

TL-637

Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V1	2021-11-05	Initial issue	Hyunsik Yun
V2	2021-11-15	Updated to address TCB's question	Hyunsik Yun

## TABLE OF CONTENTS

<b>1. ATTESTATION OF TEST RESULTS .....</b>	<b>4</b>
<b>2. TEST METHODOLOGY .....</b>	<b>5</b>
<b>3. FACILITIES AND ACCREDITATION .....</b>	<b>5</b>
<b>4. CALIBRATION AND UNCERTAINTY .....</b>	<b>6</b>
4.1. MEASURING INSTRUMENT CALIBRATION.....	6
4.2. SAMPLE CALCULATION.....	6
4.3. MEASUREMENT UNCERTAINTY .....	6
4.4. DECISION RULE .....	6
<b>5. EQUIPMENT UNDER TEST .....</b>	<b>7</b>
5.1. DESCRIPTION OF EUT.....	7
5.2. TEST MODE.....	7
5.3. WORST-CASE ORIENTATION AND MODE.....	8
5.4. DESCRIPTION OF TEST SETUP .....	9
<b>6. TEST AND MEASUREMENT EQUIPMENT .....</b>	<b>10</b>
<b>7. APPLICABLE LIMITS AND TEST RESULTS .....</b>	<b>11</b>
7.1. RADIATED EMISSIONS .....	11
7.1.1. Above 1 GHz in the GSM850.....	12
7.1.2. Above 1 GHz in the WCDMA Band 5.....	15
7.1.3. Above 1 GHz in the LTE Band 12 .....	16
7.1.4. Above 1 GHz in the LTE Band 13 .....	19
7.1.5. Above 1 GHz in the LTE Band 26 .....	20
7.1.6. Below 1 GHz in the GSM850 .....	23
7.1.7. Below 1 GHz in the WCDMA Band 5 .....	28
7.1.8. Below 1 GHz in the LTE Band 12 .....	29
7.1.9. Below 1 GHz in the LTE Band 13 .....	32
7.1.10. Below 1 GHz in the LTE Band 26 .....	33
7.2. CONDUCTED EMISSIONS.....	38
7.2.1 CONDUCTED EMISSIONS .....	39

# 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** SAMSUNG ELECTRONICS CO., LTD.  
**EUT DESCRIPTION:** GSM/WCDMA/LTE Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax, NFC, WPT and UWB  
**MODEL NUMBER:** SM-N986B1/DS, SM-N986B1  
**SERIAL NUMBER:** R3CR90Y67BD, R3CR90Y687N (RADIATED)  
**DATE TESTED:** 2021-11-02 ~ 2021-11-05;

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:



Junwhan Lee  
Suwon Lab Engineer  
UL Korea, Ltd.

Tested By:



Hyunsik Yun  
Suwon Lab Engineer  
UL Korea, Ltd.

## 2. TEST METHODOLOGY

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

1. FCC CFR 47 Part 2.
2. FCC CFR 47 Part 15.
3. ANSI C63.4-2014

## 3. FACILITIES AND ACCREDITATION

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

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

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

## 4. CALIBRATION AND UNCERTAINTY

### 4.1. MEASURING INSTRUMENT CALIBRATION

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

### 4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

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

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

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

### 4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Radiated Disturbance, 30 MHz to 1 GHz	4.05 dB
Radiated Disturbance, 1 GHz to 18 GHz	5.78 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 115:2007.

## 5. EQUIPMENT UNDER TEST

### 5.1. DESCRIPTION OF EUT

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

This report covers the Samsung models SM-N986B1/DS, SM-N986B1.

These models are identical in hardware except SM-N986B1/DS is supported dual SIM tray and SM-N986B1 has single SIM tray.

All series model was same hardware thus, SM-N986B1/DS(Dual SIM tray) was set for final test.

### 5.2. TEST MODE

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

### 5.3. WORST-CASE ORIENTATION AND MODE

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

Band	Worst Case		
	X	Y	Z
GSM 850	O	-	-
WCDMA B5	-	-	O
LTE B12	-	-	O
LTE B13	O	-	-
LTE B26	O	-	-

#### **WCDMA Band5**

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

#### **LTE Band 5**

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

#### **LTE Band 17**

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

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



## 5.4. DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Charger	SAMSUNG	EP-TA800	R37R38J4A28SE3	N/A
Data Cable	SAMSUNG	EP-DG980	N/A	N/A

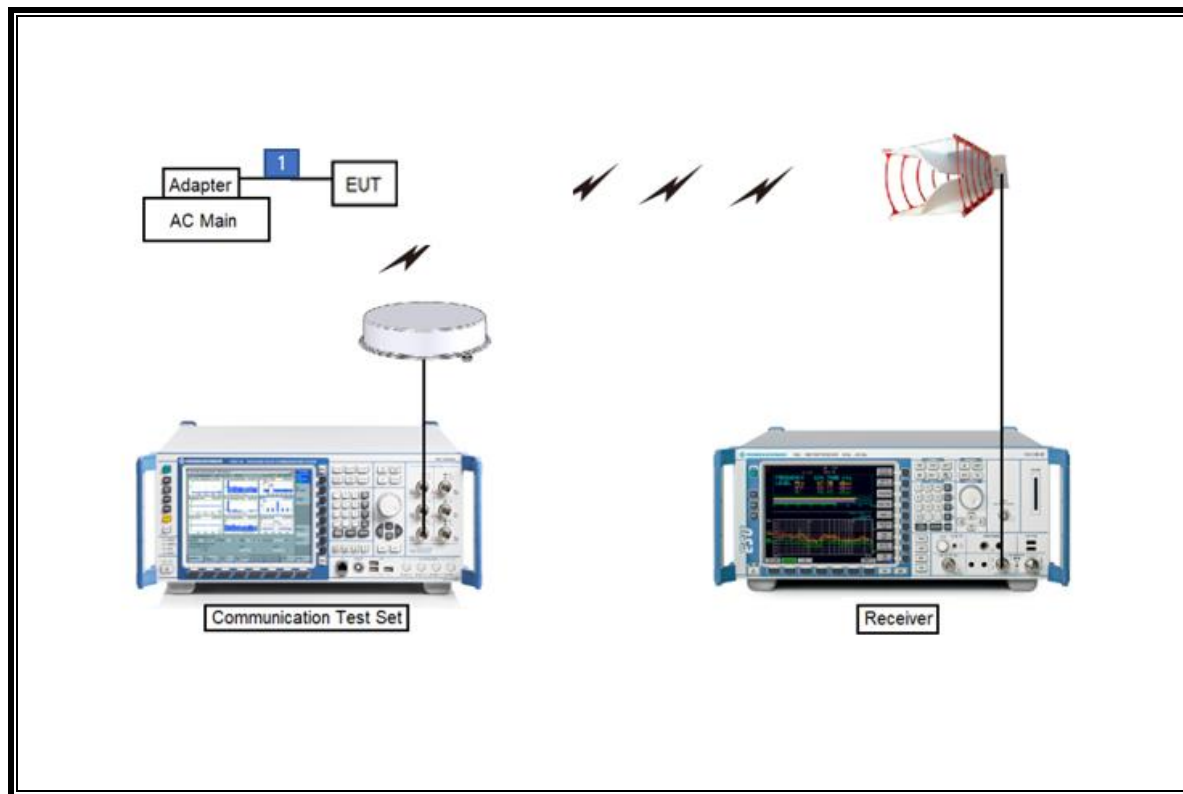
### I/O CABLE

I/O Cable List						
Cable No.	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC Power	1	C Type	Shielded	1.0 m	N/A

### TEST SETUP

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

### SETUP DIAGRAM FOR TESTS (RADIATED TEST SETUP)



## 6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment List				
Description	Manufacturer	Model	S/N	Cal Due
Antenna, Tuned Dipole 400~1000 MHz	ETS	3121D DB4	00164753	2023-02-08
Antenna, Horn, 40 GHz	ETS	3116C	00166155	2022-08-04
Antenna, Horn, 40 GHz	ETS	3116C	00168645	2023-10-13
Preamplifier	ETS	3116C-PA	00168841	2022-08-04
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	750	2022-08-19
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	845	2022-08-13
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	749	2022-08-13
Antenna, Horn, 18 GHz	ETS	3115	00167211	2022-07-27
Antenna, Horn, 18 GHz	ETS	3115	00161451	2022-08-15
Antenna, Horn, 18 GHz	ETS	3117	00168724	2022-07-27
Antenna, Horn, 18 GHz	ETS	3117	00168717	2022-08-15
Communications Test Set	R&S	CMW500	169796	2022-01-27
Preamplifier, 1000 MHz	Sonoma	310N	341282	2022-08-02
Preamplifier, 1000 MHz	Sonoma	310N	370599	2022-08-02
Preamplifier, 1000 MHz	Sonoma	310N	351741	2022-08-02
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1876511	2022-08-02
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	2029168	2022-08-02
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1896138	2022-08-02
EMI Test Receive, 40 GHz	R&S	ESU40	100439	2022-08-02
EMI Test Receive, 40 GHz	R&S	ESU40	100457	2022-08-02
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	2022-08-03
High Pass Filter 1.2GHz	Micro-Tronics	HPM50108-02	G006	2022-08-02
High Pass Filter 2.8GHz	Micro-Tronics	HPM50111-02	010	2022-08-03
High Pass Filter 2.8GHz	Micro-Tronics	HPM50111-02	011	2022-08-02
High Pass Filter 4GHz	Micro-Tronics	HPM50118-02	G001	2022-08-03
High Pass Filter 4GHz	Micro-Tronics	HPM50118-02	G002	2022-08-02
Attenuator	PASTERNAK	PE7087-10	A009	2022-08-03
Attenuator	PASTERNAK	PE7087-10	A001	2022-08-03
Attenuator	PASTERNAK	PE7087-10	A008	2022-08-03
Attenuator	PASTERNAK	PE7004-10	2	2022-08-02
Attenuator	PASTERNAK	PE7395-10	A011	2022-08-03
EMI Test Receive, 3 GHz	R&S	ESR3	101832	2022-08-02
LISN	R&S	ENV-216	101836	2022-08-05
LISN	R&S	ENV-216	101837	2022-08-05
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY58120110	2022-01-13
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:

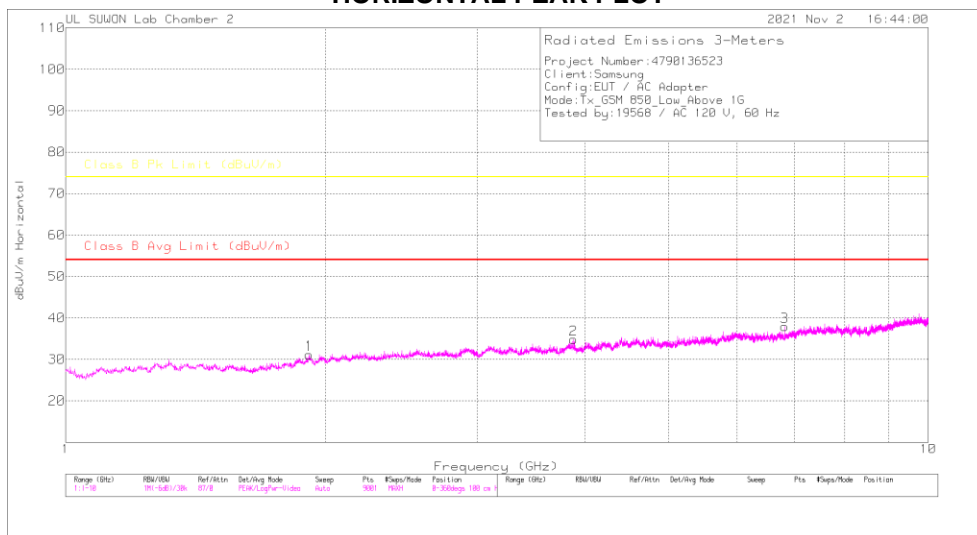
Limits for radiated disturbance of Class B ITE at measuring distance of 3 m	
Frequency range (MHz)	Quasi-peak limits (dB $\mu$ V/m)
30 to 88	40
88 to 216	43.5
216 to 960	46
Above 960 MHz	54

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

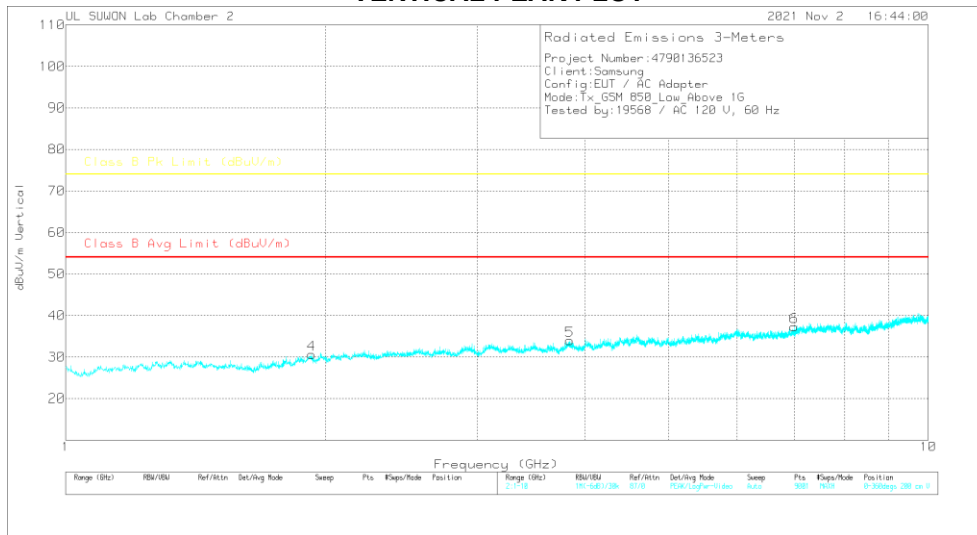
### 7.1.1. Above 1 GHz in the GSM850

#### LOW CHANNEL(869.2 MHz)

#### HORIZONTAL PEAK PLOT



#### VERTICAL PEAK PLOT



#### DATA

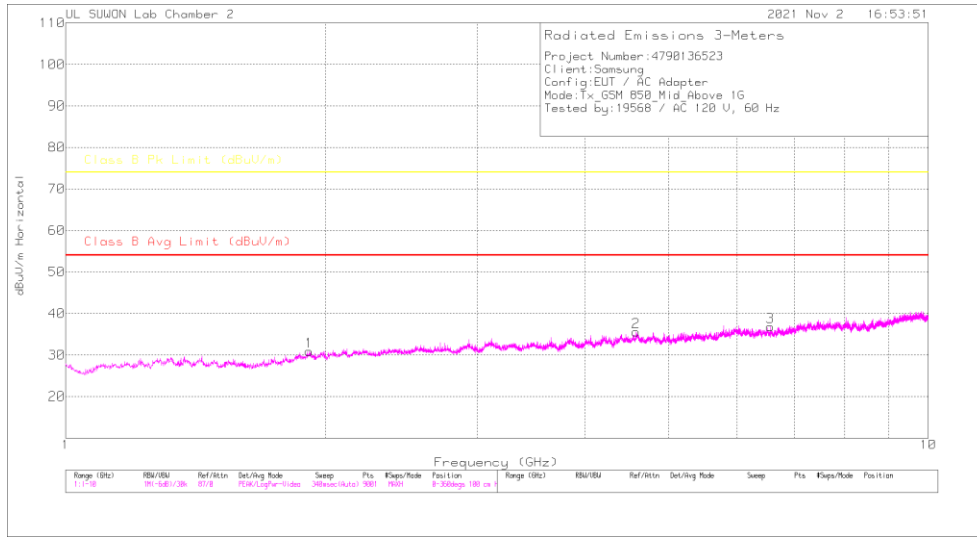
#### Trace Markers

Marker	Frequency (GHz)	Meas Reading (dBuV)	Det	3117_00168724	1-18GHz[dB]	1GHz_HP[dB]	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.914	30.68	PK	30.8	-31	.7	-31.18	-	-	74	-42.82	0-360	100	H
2	3.878	30.24	PK	33.4	-29.4	.6	34.84	-	-	74	-39.16	0-360	100	H
3	6.817	27.79	PK	35.7	-26	.4	37.89	-	-	74	-36.11	0-360	100	H
4	1.929	30.18	PK	30.9	-31.1	.7	30.68	-	-	74	-43.32	0-360	200	V
5	3.84	29.24	PK	33.4	-29.3	.6	33.94	-	-	74	-40.06	0-360	200	V
6	6.992	27.33	PK	35.9	-26.3	.4	37.33	-	-	74	-36.67	0-360	200	V

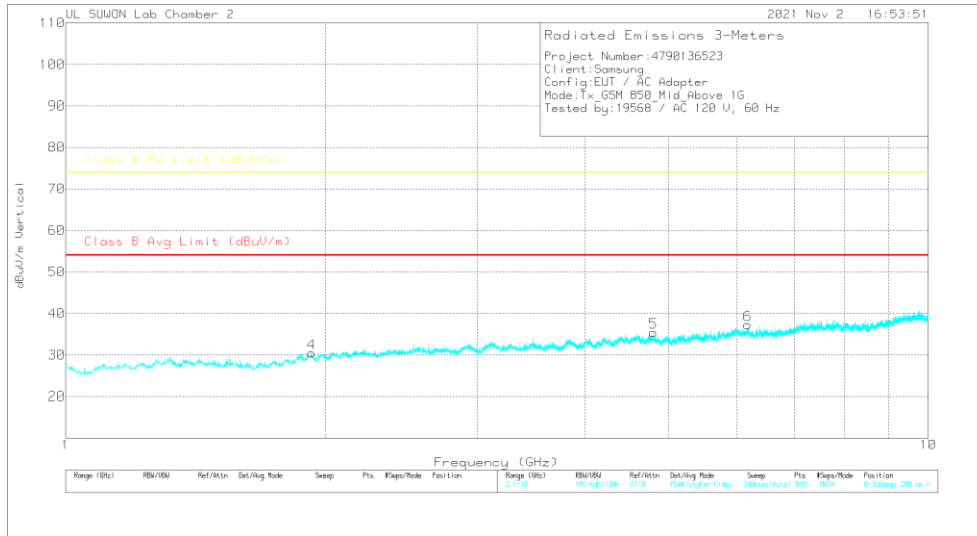
PK – Peak Detector

**MID CHANNEL(881.6 MHz)**

**HORIZONTAL PEAK PLOT**



**VERTICAL PEAK PLOT**



**DATA**

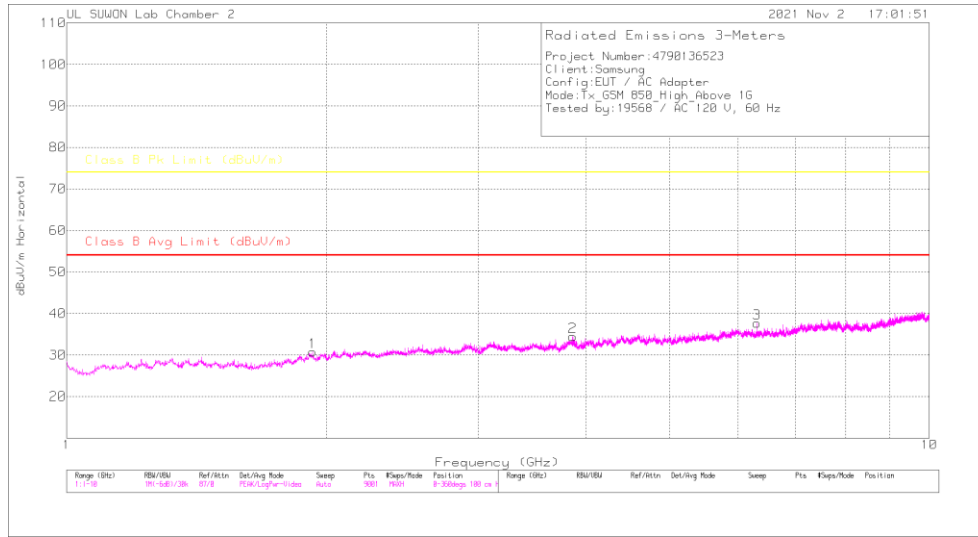
**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HP(dB)	Corrected Reading dBuV/m	Class B Avg Limit (dBuV/m)	Av(CSPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.915	30.4	PK	30.8	-31	.7	30.9	-	-	74	-43.1	0-360	100	H
2	4.587	29.75	PK	34.1	-28.8	.5	35.55	-	-	74	-38.45	0-360	100	H
3	6.264	27.75	PK	35.4	-26.7	.4	36.86	-	-	74	-37.14	0-360	100	H
4	1.927	29.91	PK	30.9	-31	.7	30.51	-	-	74	-43.49	0-360	200	V
5	4.804	29.11	PK	34.1	-28.2	.5	35.51	-	-	74	-38.49	0-360	200	V
6	6.178	28.48	PK	35.3	-26.9	.4	37.28	-	-	74	-36.72	0-360	200	V

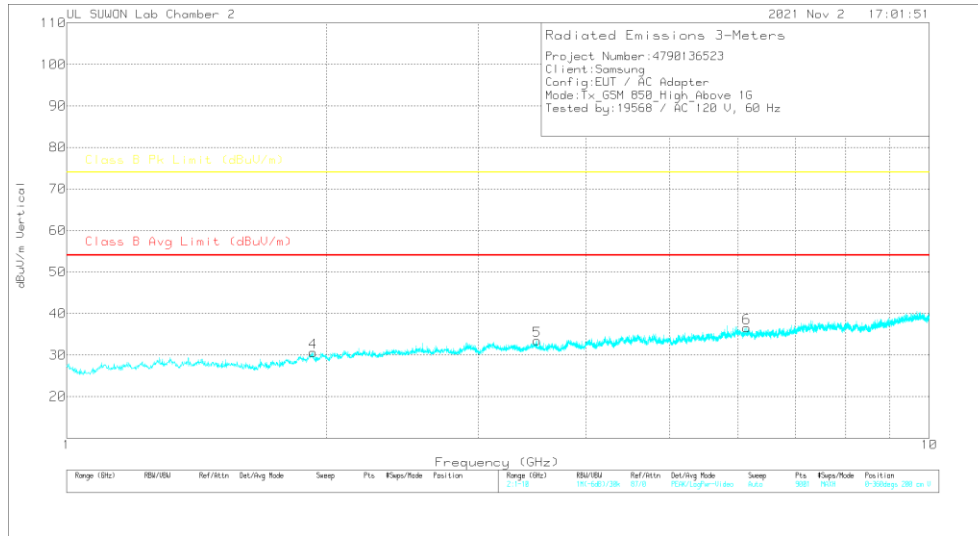
PK – Peak Detector

**HIGH CHANNEL(893.8 MHz)**

**HORIZONTAL PEAK PLOT**



**VERTICAL PEAK PLOT**



**DATA**

**Trace Markers**

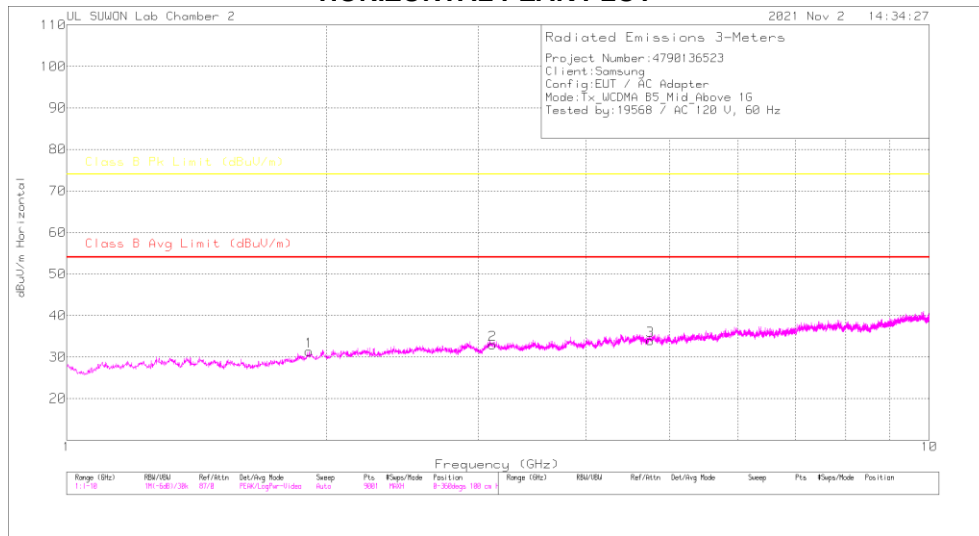
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HPF(dB)	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.928	30.3	PK		-31.1	.7	30.8	-	-	74	-43.2	0-360	100	H
2	3.861	29.91	PK		-29.4	.6	34.51	-	-	74	-39.49	0-360	100	H
3	6.317	29.29	PK		-27.3	.4	37.69	-	-	74	-36.31	0-360	100	H
4	1.93	30.19	PK		-31.1	.7	30.68	-	-	74	-43.32	0-360	200	V
5	3.51	29.19	PK		-29	.5	33.49	-	-	74	-40.51	0-360	200	V
6	6.147	27.72	PK		-26.9	.4	36.52	-	-	74	-37.48	0-360	200	V

PK – Peak Detector

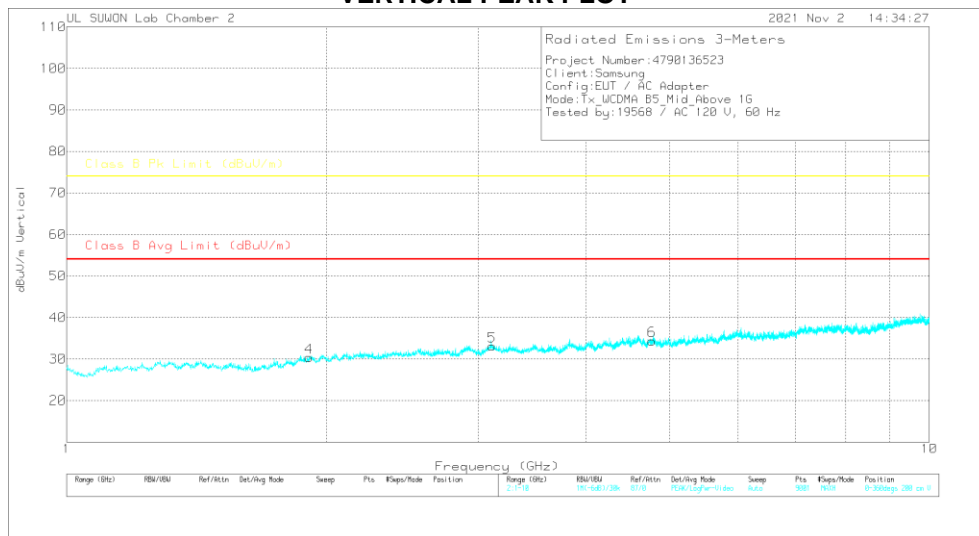
### 7.1.2. Above 1 GHz in the WCDMA Band 5

#### MID CHANNEL(881.6 MHz)

#### HORIZONTAL PEAK PLOT



#### VERTICAL PEAK PLOT



#### DATA

##### Trace Markers

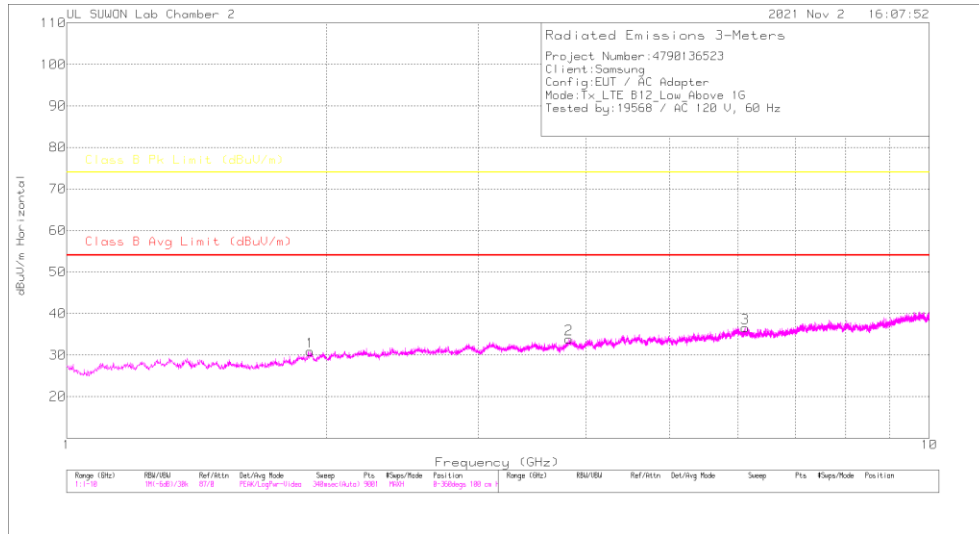
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz[dB]	1GHz_HP[dB]	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.911	30.86	Avg	30.8	-31	.7	31.36	-	-	74	-42.64	0-360	100	H
2	3.118	29.21	Avg	32.9	-29.8	.7	33.01	-	-	74	-40.99	0-360	100	H
3	4.752	28.02	Avg	34.1	-28.6	.4	33.92	-	-	74	-40.08	0-360	100	H
4	1.911	29.92	Avg	30.8	-31	.7	30.42	-	-	74	-43.58	0-360	200	V
5	3.111	29.35	Avg	32.9	-29.8	.7	33.15	-	-	74	-40.85	0-360	200	V
6	4.773	28.2	Avg	34.1	-28.3	.4	34.4	-	-	74	-39.6	0-360	200	V

PK – Peak Detector

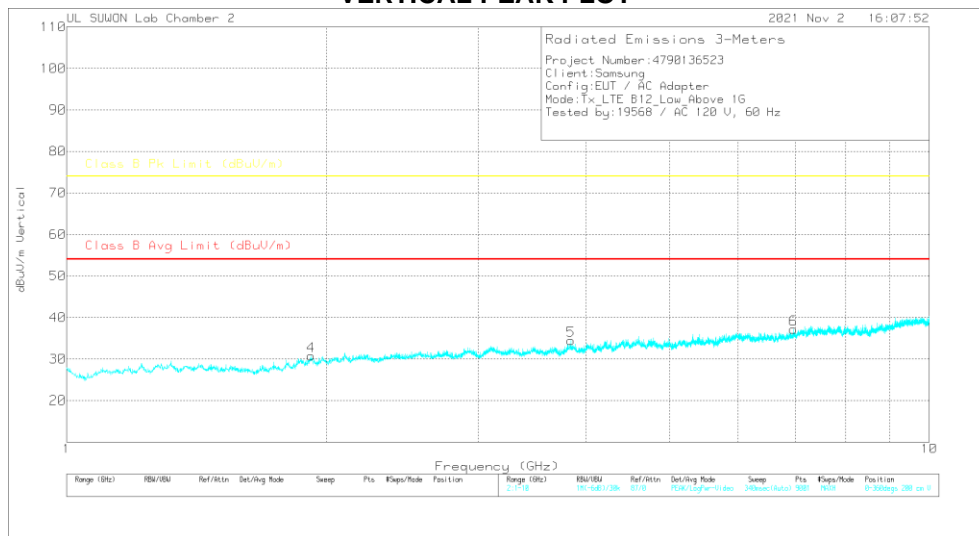
### 7.1.3. Above 1 GHz in the LTE Band 12

#### LOW CHANNEL(730.5 MHz)

#### HORIZONTAL PEAK PLOT



#### VERTICAL PEAK PLOT



#### DATA

##### Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	s117_00168724	1-18GHz(dB)	1GHz_HPB(dB)	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Av(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Acimuth (Degs)	Height (cm)	Polarity
1	1.914	30.43	PK		-31	-7	30.93	-	-	74	-43.07	0-360	100	H
2	3.824	29.1	PK		-29.2	-6	33.9	-	-	74	-40.1	0-360	100	H
3	6.118	27.86	PK		-27	-4	36.56	-	-	74	-37.44	0-360	100	H
4	1.921	30.1	PK		-31	-7	30.7	-	-	74	-43.3	0-360	200	V
5	3.842	29.68	PK		-29.2	-6	34.48	-	-	74	-39.52	0-360	200	V
6	6.96	27.24	PK		-26.4	-4	37.14	-	-	74	-36.86	0-360	200	V

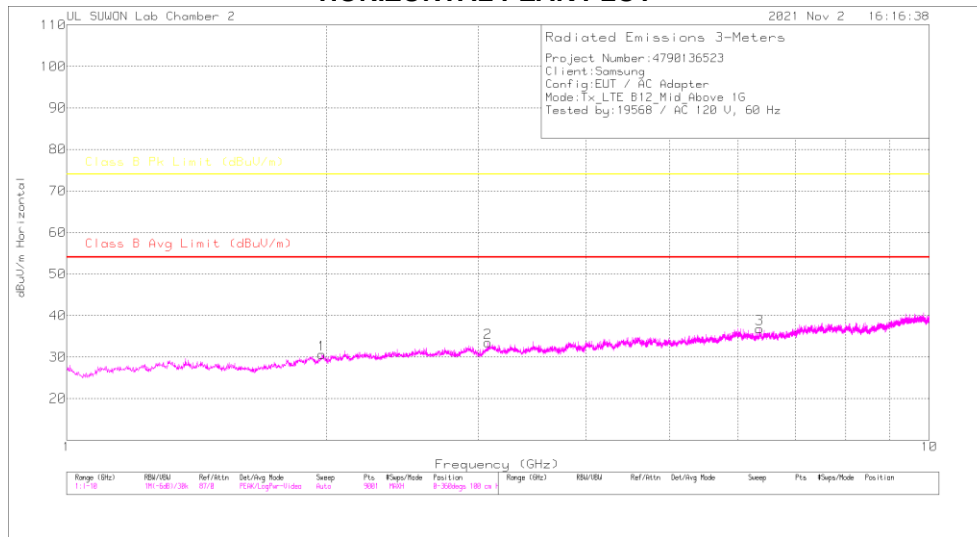
PK – Peak Detector

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

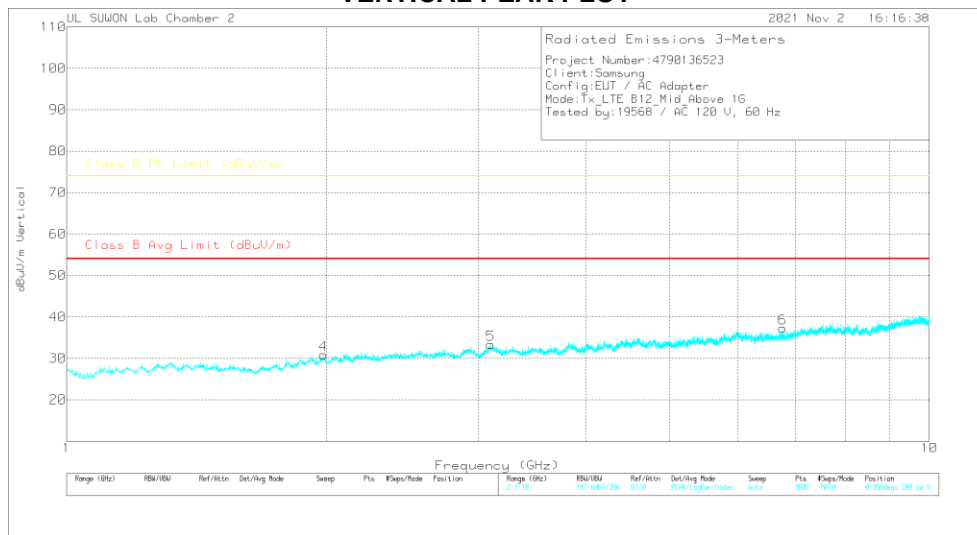


**MID CHANNEL(737.5 MHz)**

**HORIZONTAL PEAK PLOT**



**VERTICAL PEAK PLOT**



**DATA**

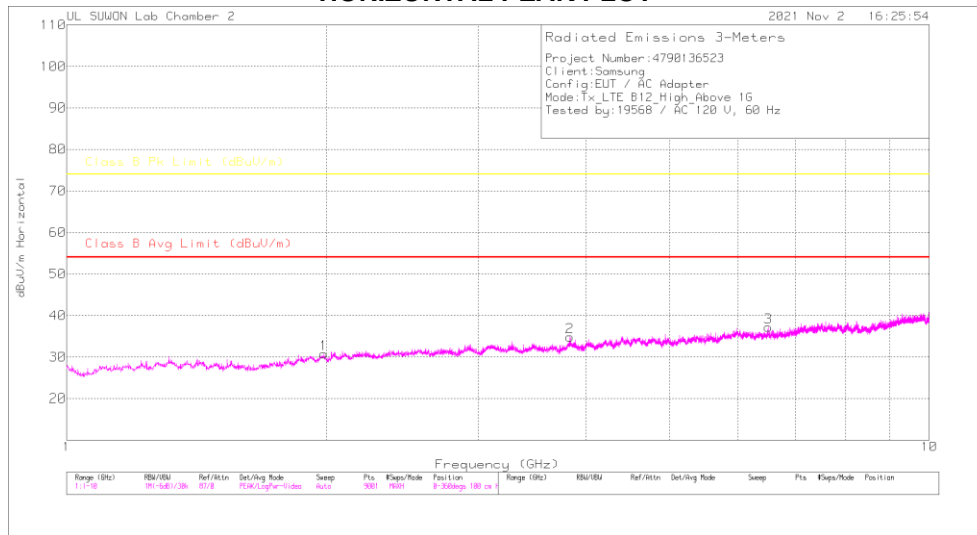
**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HP(dB)	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Av(CSPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.977	29.88	PK	31.1	-31	.6	30.58	-	-	74	-43.42	0-360	100	H
2	3.079	30.12	PK	32.8	-30	.6	33.52	-	-	74	-40.48	0-360	100	H
3	6.354	28.13	PK	35.4	-27.1	.4	36.83	-	-	74	-37.17	0-360	100	H
4	1.985	30.13	PK	31.2	-31	.6	30.93	-	-	74	-43.07	0-360	200	V
5	3.102	29.55	PK	32.9	-29.8	.7	33.35	-	-	74	-40.65	0-360	200	V
6	6.765	27.36	PK	35.6	-26	.4	37.36	-	-	74	-36.64	0-360	200	V

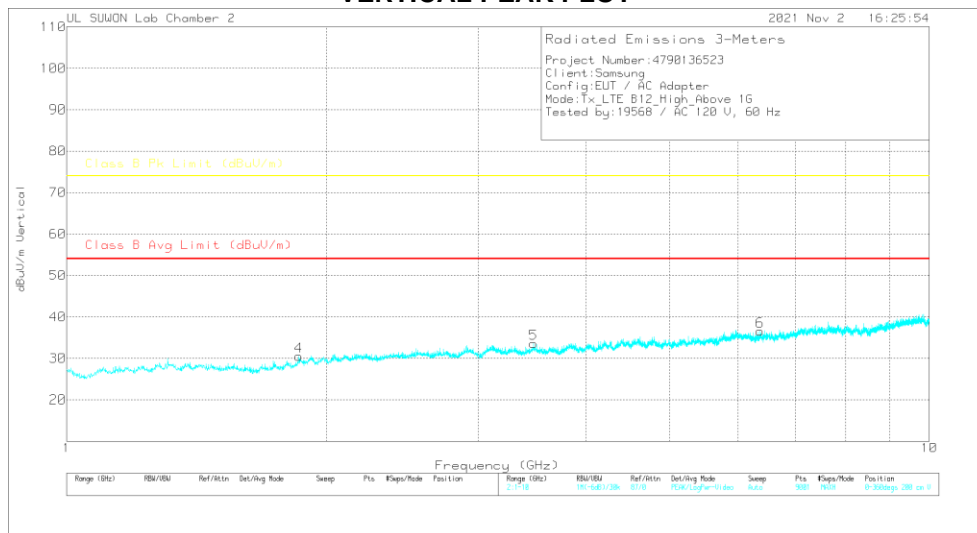
PK – Peak Detector

**HIGH CHANNEL(744.5 MHz)**

**HORIZONTAL PEAK PLOT**



**VERTICAL PEAK PLOT**



**DATA**

**Trace Markers**

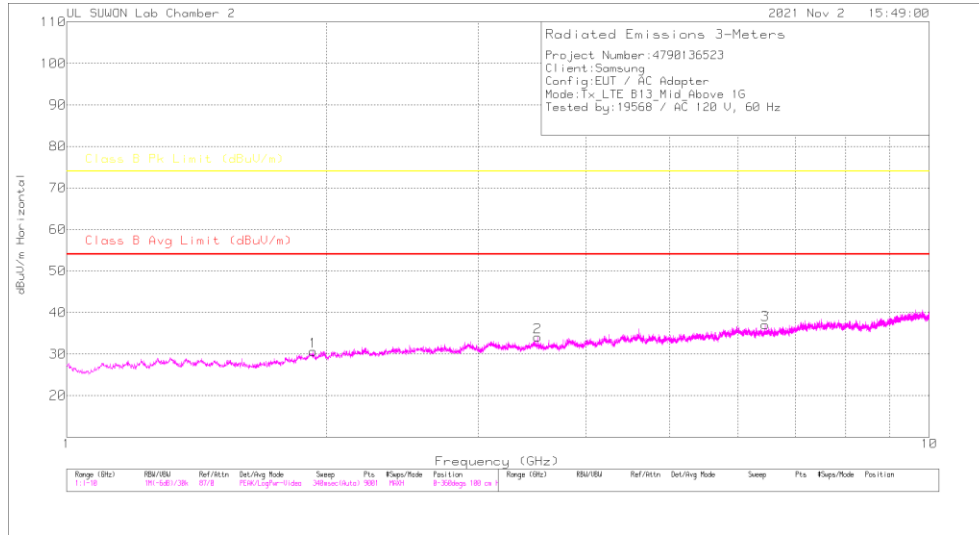
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz[dB]	1GHz_HP[dB]	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Av(CSRR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	1.988	30	PK	31.2	-31	.6	30.8	-	-	74	-43.2	0-360	100	H
2	3.834	30.03	PK	33.4	-29.2	.6	34.83	-	-	74	-39.17	0-360	100	H
3	6.509	27.83	PK	35.4	-26.6	.5	37.13	-	-	74	-36.87	0-360	100	H
4	1.859	30.71	PK	30.4	-31.2	.6	30.51	-	-	74	-43.49	0-360	200	V
5	3.477	29.28	PK	32.6	-29	.5	33.58	-	-	74	-40.42	0-360	200	V
6	6.365	27.6	PK	35.4	-27	.4	36.6	-	-	74	-37.4	0-360	200	V

PK - Peak Detector

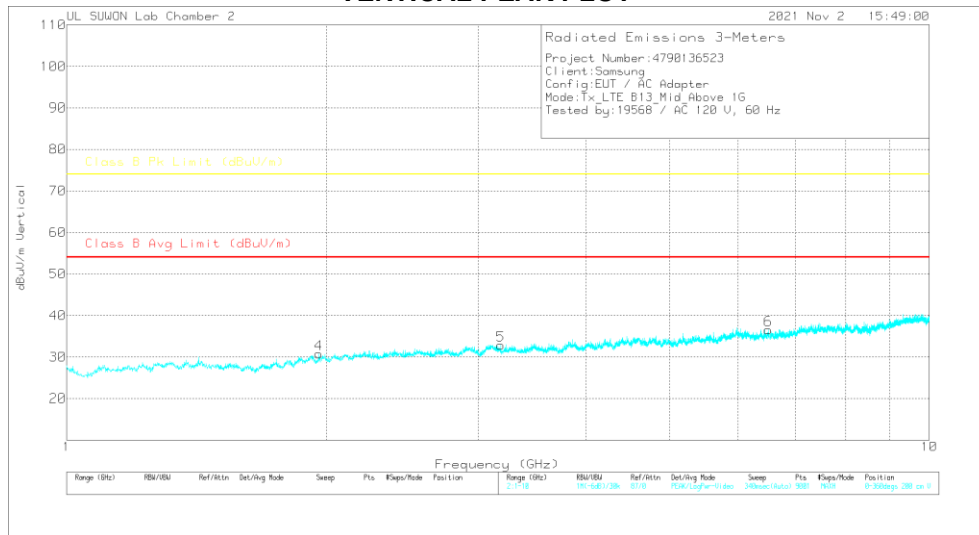
### 7.1.4. Above 1 GHz in the LTE Band 13

#### MID CHANNEL(751.0 MHz)

#### HORIZONTAL PEAK PLOT



#### VERTICAL PEAK PLOT



#### DATA

##### Trace Markers

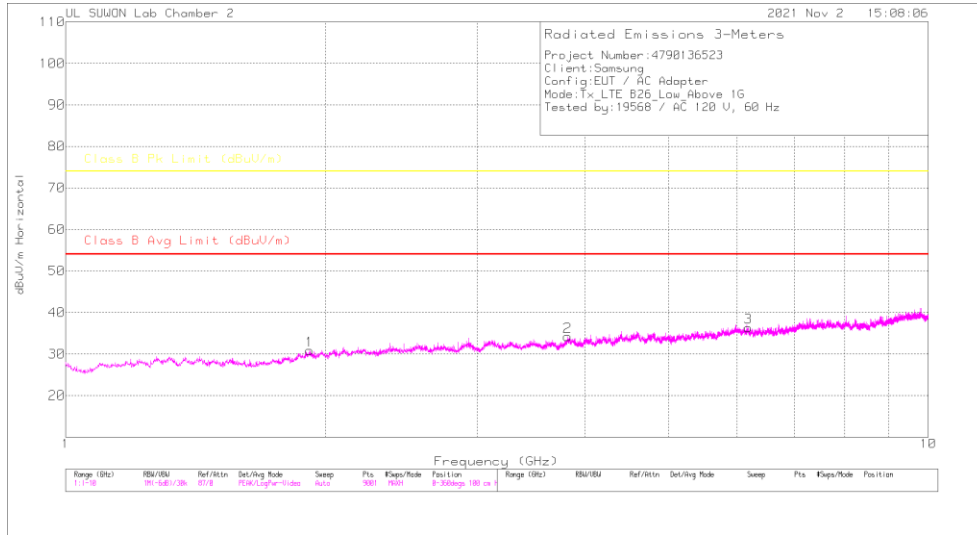
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HP(dB)	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Avg(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.931	30.14	PK		-31.1	.7	30.64	-	-	74	-43.36	0-360	100	H
2	3.515	29.84	PK		-29.1	.5	34.04	-	-	74	-39.96	0-360	100	H
3	6.451	27.94	PK		-26.7	.4	37.04	-	-	74	-36.96	0-360	100	H
4	1.96	30.12	PK		-31	.6	30.72	-	-	74	-43.28	0-360	200	V
5	3.185	28.85	PK		-29.7	.7	32.85	-	-	74	-41.15	0-360	200	V
6	6.511	27.26	PK		-26.6	.5	36.56	-	-	74	-37.44	0-360	200	V

PK – Peak Detector

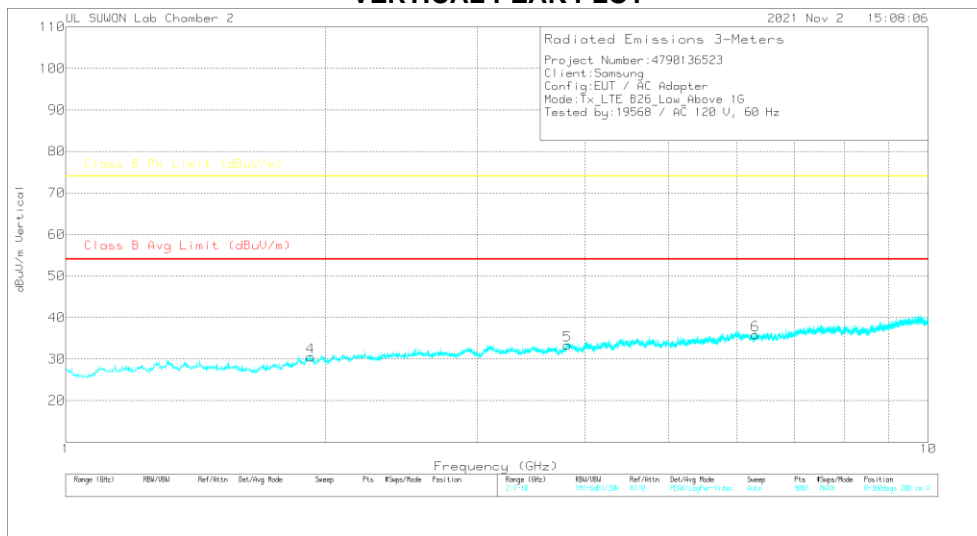
### 7.1.5. Above 1 GHz in the LTE Band 26

#### LOW CHANNEL(860.5 MHz)

#### HORIZONTAL PEAK PLOT



#### VERTICAL PEAK PLOT



#### DATA

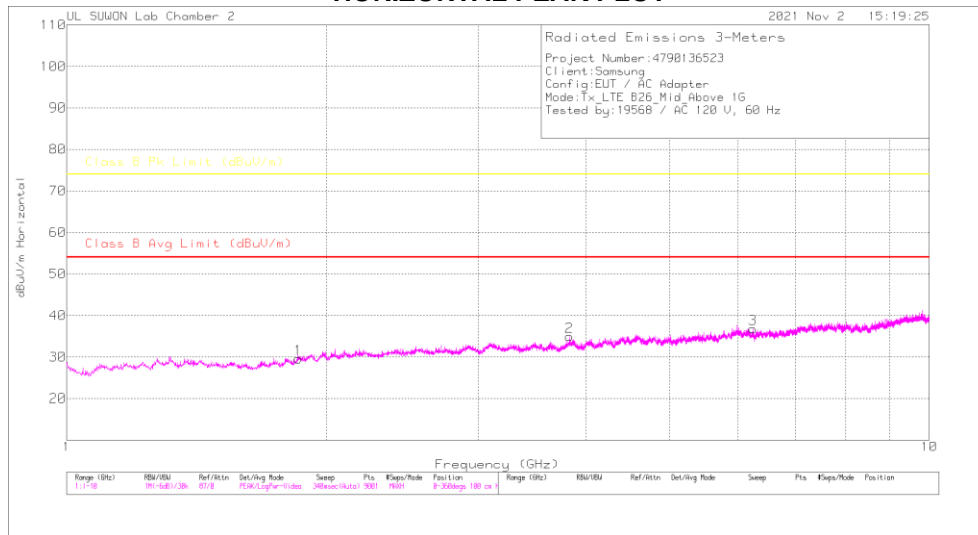
#### Trace Markers

Marker	Frequency (GHz)	Meas Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HP(dB)	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Avr(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.917	30.38	PK		-31	.7	30.88	-	-	74	-43.12	0-360	100	H
2	3.819	29.44	PK		-29.2	.6	34.24	-	-	74	-39.76	0-360	100	H
3	6.183	27.38	PK		-26.9	.4	30.38	-	-	74	-37.62	0-360	100	H
4	1.923	29.94	PK		-31	.7	30.54	-	-	74	-43.46	0-360	200	V
5	3.814	28.66	PK		-29.2	.6	33.36	-	-	74	-40.64	0-360	200	V
6	6.303	27.38	PK		-27.3	.4	35.78	-	-	74	-38.22	0-360	200	V

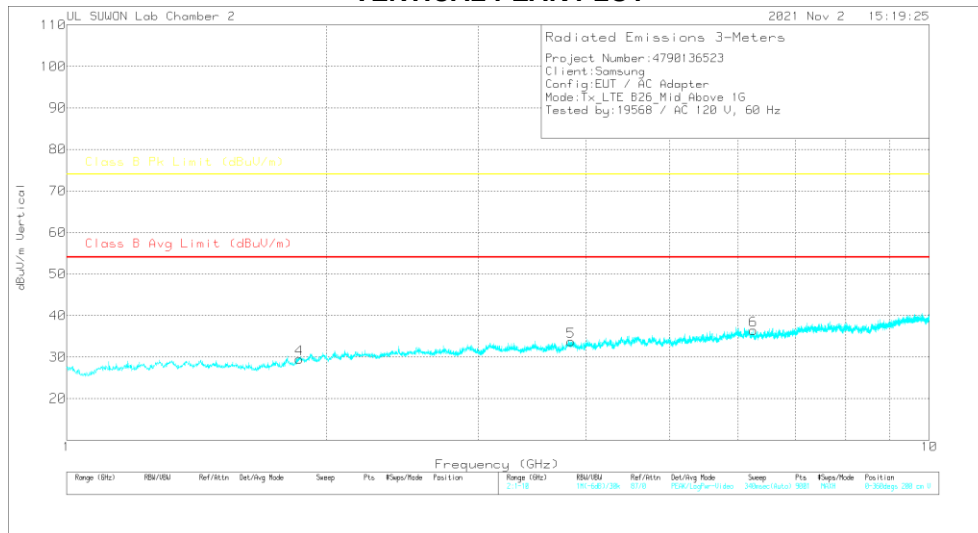
PK – Peak Detector

**MID CHANNEL(876.5 MHz)**

**HORIZONTAL PEAK PLOT**



**VERTICAL PEAK PLOT**



**DATA**

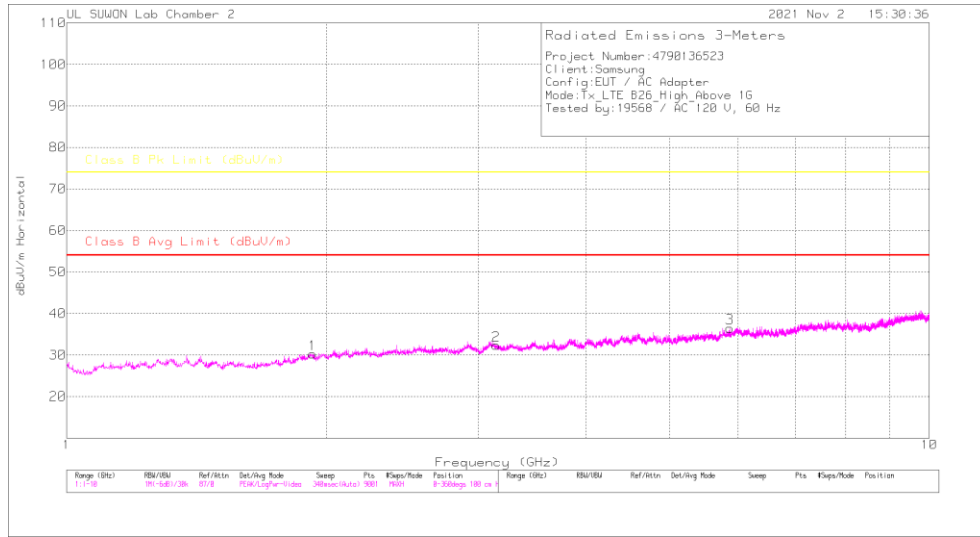
**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HP(dB)	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Avr(CISPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.856	29.78	PK		-31.2	.6	29.58	-	-	74	-44.42	0-360	100	H
2	3.826	30.23	PK		-29.3	.6	34.93	-	-	74	-39.07	0-360	100	H
3	6.249	28.23	PK		-27.2	.5	36.83	-	-	74	-37.17	0-360	100	H
4	1.862	29.71	PK		-31.2	.6	29.51	-	-	74	-44.49	0-360	200	V
5	3.841	28.9	PK		-29.2	.6	33.7	-	-	74	-40.3	0-360	200	V
6	6.255	27.93	PK		-27.3	.5	36.43	-	-	74	-37.57	0-360	200	V

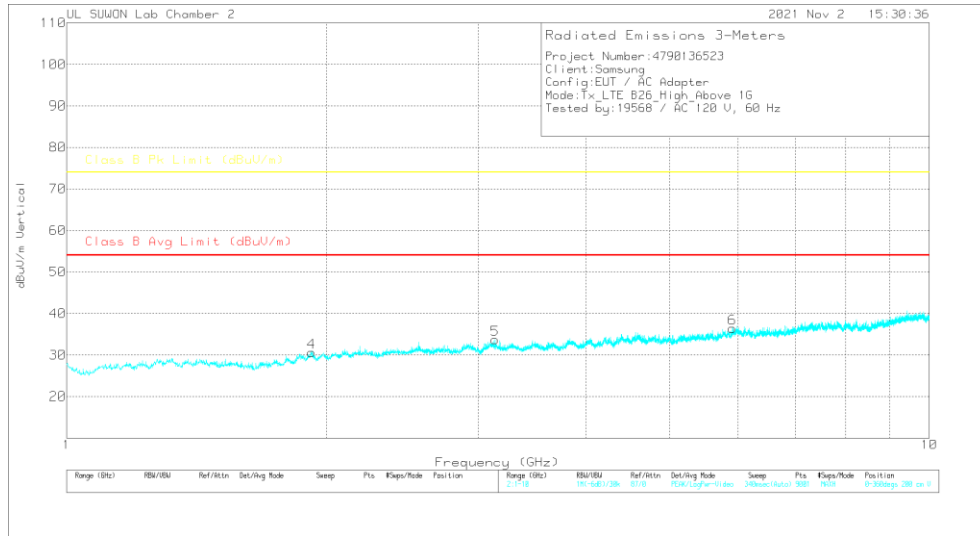
PK – Peak Detector

**HIGH CHANNEL(892.5 MHz)**

**HORIZONTAL PEAK PLOT**



**VERTICAL PEAK PLOT**



**DATA**

**Trace Markers**

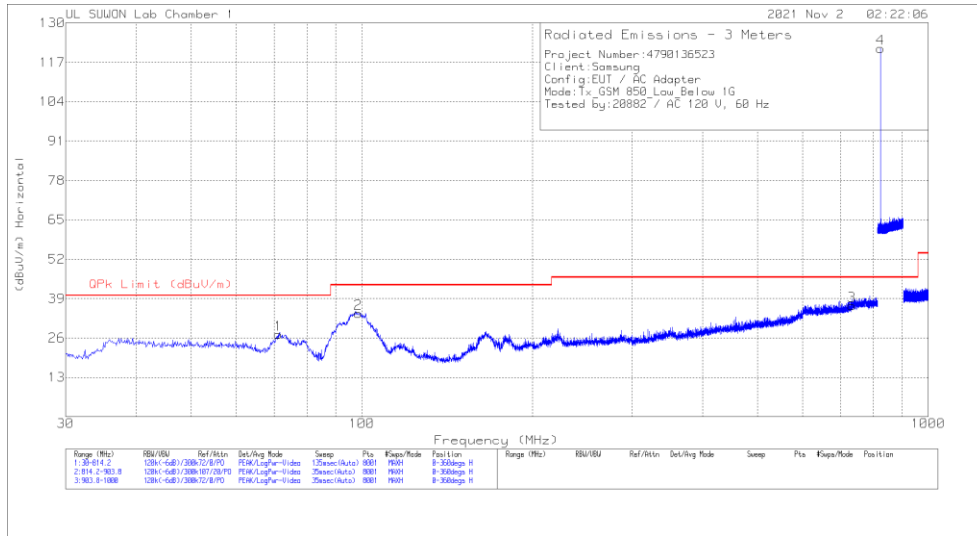
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117_00168724	1-18GHz(dB)	1GHz_HP(dB)	Corrected Reading (dBuV/m)	Class B Avg Limit (dBuV/m)	Av(CSPR)Margin (dB)	Class B Pk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.928	29.71	PK	30.9	-31.1	.7	30.21	-	-	74	-43.79	0-360	100	H
2	3.147	28.41	PK	33	-29.8	.7	32.31	-	-	74	-41.69	0-360	100	H
3	5.875	28.5	PK	35	-27.4	.4	36.5	-	-	74	-37.5	0-360	100	H
4	1.923	30.08	PK	30.9	-31	.7	30.68	-	-	74	-43.32	0-360	200	V
5	3.138	29.78	PK	33	-29.8	.7	33.68	-	-	74	-40.32	0-360	200	V
6	5.912	28.49	PK	35	-27.5	.5	36.49	-	-	74	-37.51	0-360	200	V

PK – Peak Detector

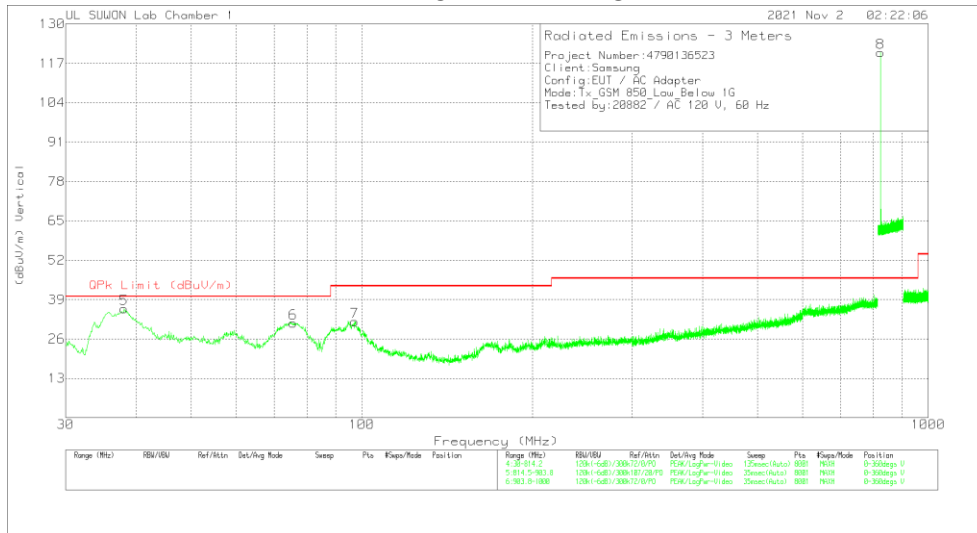
### 7.1.6. Below 1 GHz in the GSM850

#### LOW CHANNEL(869.2 MHz)

#### HORIZONTAL PEAK PLOT



#### VERTICAL PEAK PLOT



**DATA**

**Trace Markers**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	71.2685	10.55	Pk	14.9	1.8	27.25	40	-12.75	0-360	200	H
2	98.6175	14.69	Pk	17.4	2.1	34.19	43.52	-9.33	0-360	200	H
3	733.0353	4.8	Pk	26.3	5.6	36.7	46.02	-9.32	0-360	300	H
4	824.2464	88.41	Pk	27.1	6	121.51	46.02	75.49	0-360	200	H
5	38.0381	16.73	Pk	17.9	1.3	35.93	40	-4.07	0-360	200	V
6	75.6797	16.22	Pk	13.2	1.8	31.22	40	-8.78	0-360	200	V
7	97.0491	12.58	Pk	17.1	2.1	31.78	43.52	-11.74	0-360	200	V
8	824.2565	87.41	Pk	27.1	6	120.51	46.02	74.49	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
38.0381	11.28	Qp	17.9	1.3	30.48	40	-9.52	191	103	V

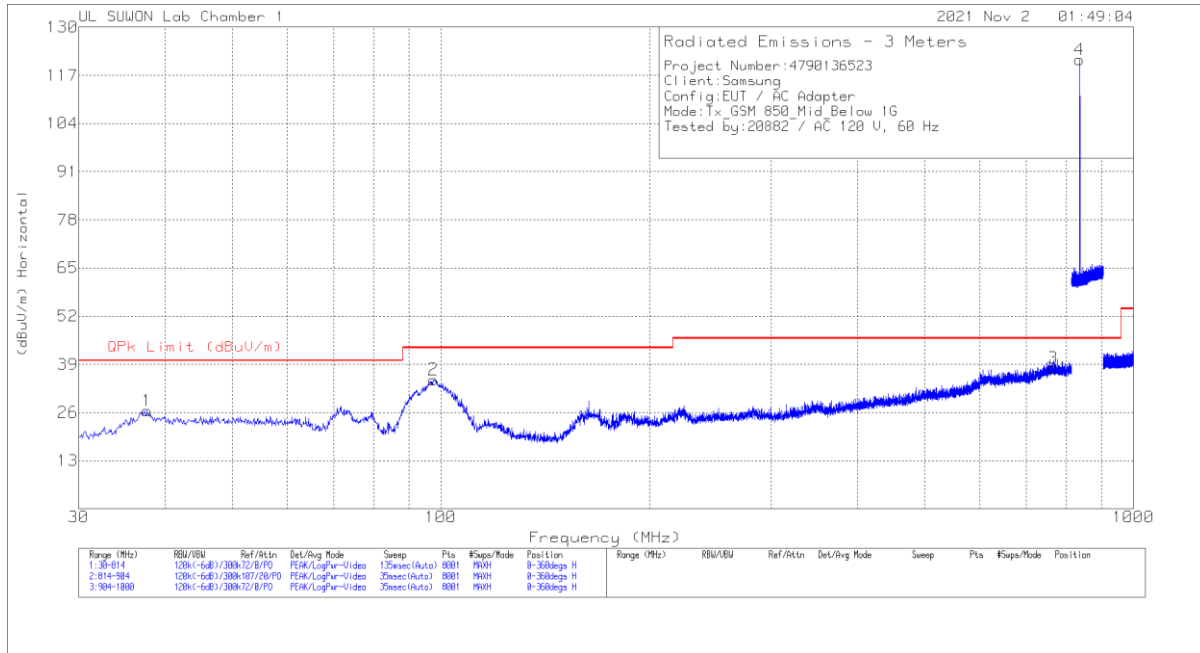
Qp - Quasi-Peak detector

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

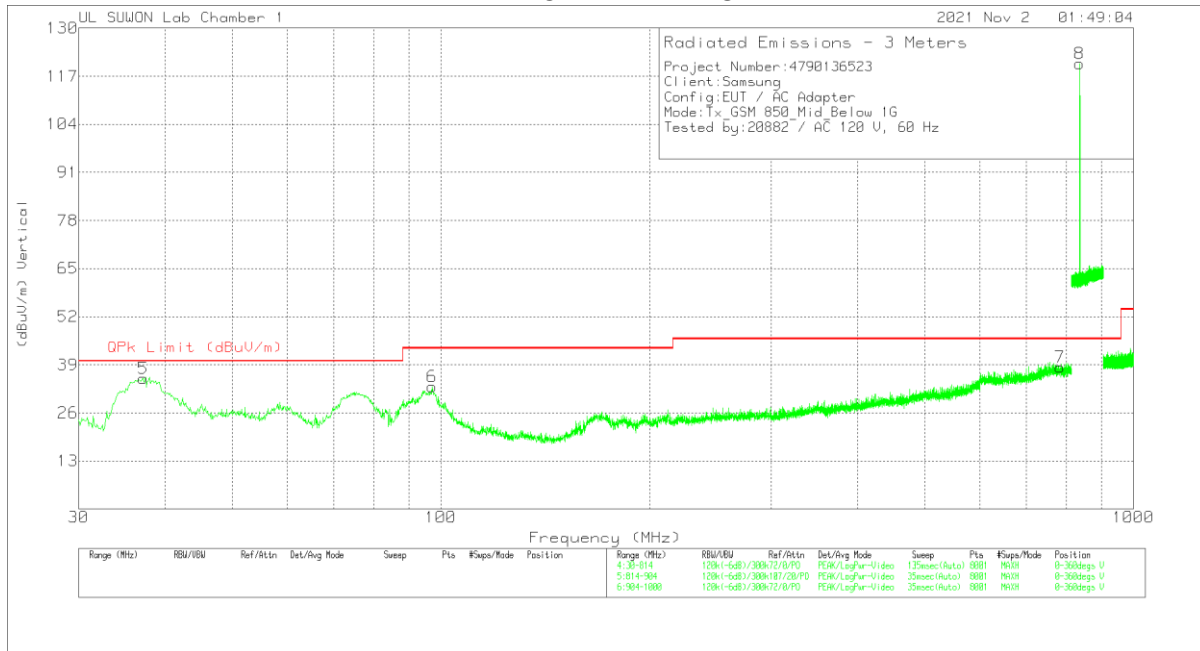


**MID CHANNEL(881.6 MHz)**

**HORIZONTAL PEAK PLOT**



**VERTICAL PEAK PLOT**



**DATA**

**Trace Markers**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	37.644	7.48	Pk	17.8	1.3	26.58	40	-13.42	0-360	200	H
2	97.62	15.69	Pk	17.2	2	34.89	43.52	-8.63	0-360	200	H
3	766.274	5.5	Pk	26.9	5.7	38.1	46.02	-7.92	0-360	300	H
4	836.5338	88.06	Pk	27.1	6	121.16	46.02	75.14	0-360	200	H
5	37.154	16.47	Pk	17.6	1.3	35.37	40	-4.63	0-360	200	V
6	97.13	13.84	Pk	17.1	2.1	33.04	43.52	-10.48	0-360	200	V
7	784.012	6.01	Pk	26.6	5.8	38.41	46.02	-7.61	0-360	400	V
8	836.5338	87.29	Pk	27.1	6	120.39	46.02	74.37	0-360	100	V

Pk - Peak detector

**Radiated Emissions**

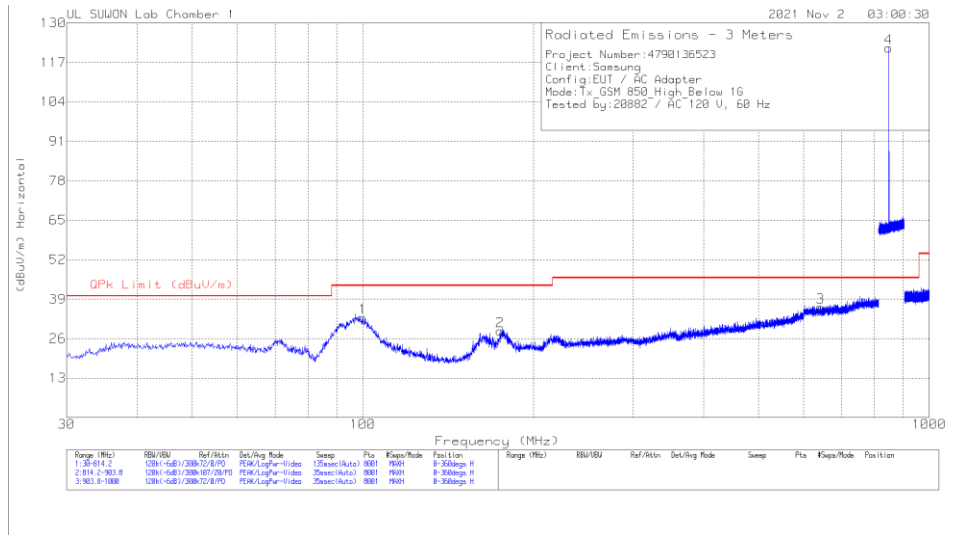
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
37.154	10.96	Qp	17.6	1.3	29.86	40	-10.14	150	100	V

Qp - Quasi-Peak detector

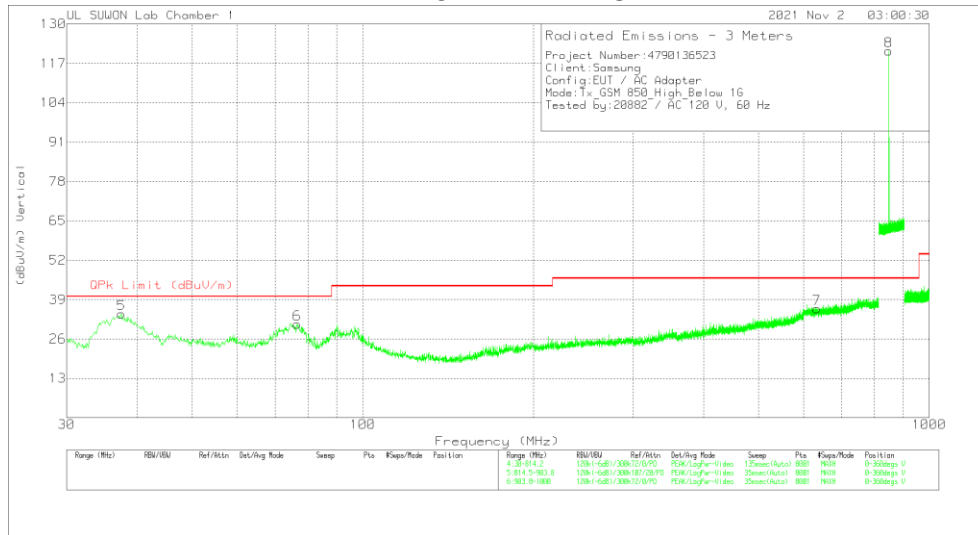
Note: Unwanted emissions captured from 824MHz to 849MHz and from 869MHz to 894MHz were the TX and RX signals generated from the call-simulator.

**HIGH CHANNEL(893.8 MHz)**

**HORIZONTAL PEAK PLOT**



**VERTICAL PEAK PLOT**



**DATA**

**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	100.0879	13.26	Pk	17.5	2.2	32.96	43.52	-10.56	0-360	200	H
2	174.979	11.01	Pk	14.8	2.8	28.61	43.52	-14.91	0-360	100	H
3	643.0484	5.97	Pk	25.1	5.3	36.37	46.02	-9.65	0-360	200	H
4	848.7632	88.19	Pk	27.4	6.1	121.69	46.02	75.67	0-360	200	H
5	37.4499	15.34	Pk	17.7	1.3	34.34	40	-5.66	0-360	200	V
6	76.6599	16.17	Pk	12.9	1.8	30.87	40	-9.13	0-360	200	V
7	633.4419	5.65	Pk	25.1	5.3	36.05	46.02	-9.97	0-360	300	V
8	848.7369	87.51	Pk	27.4	6.1	121.01	46.02	74.99	0-360	100	V

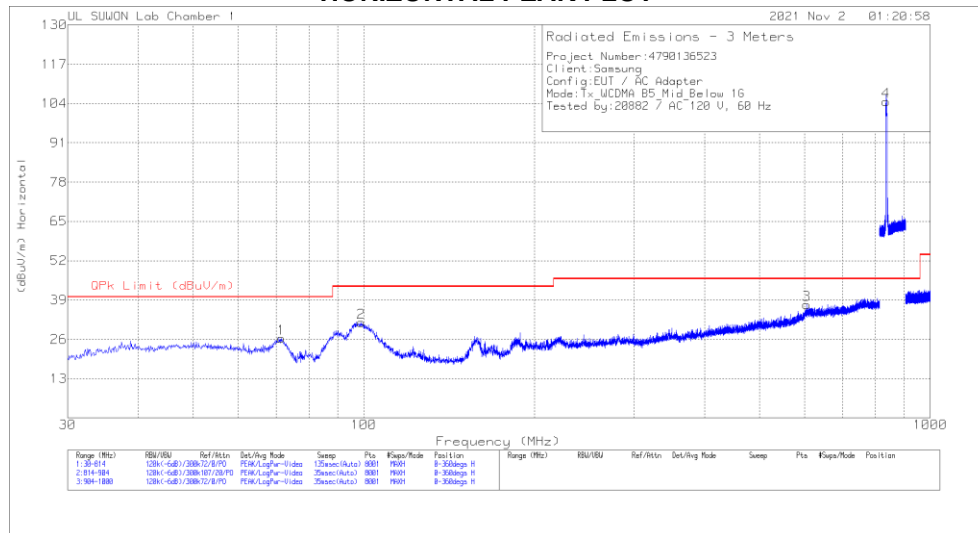
Pk - Peak detector

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

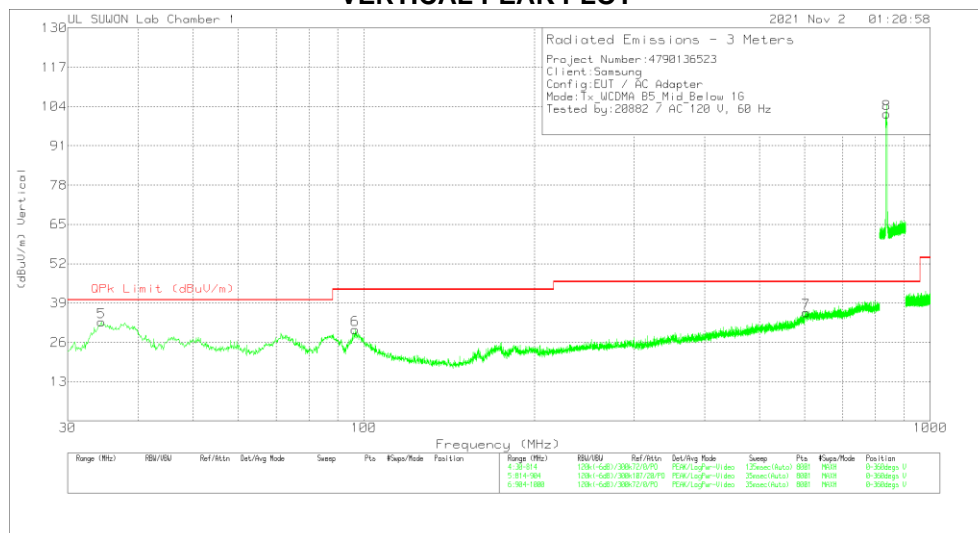
### 7.1.7. Below 1 GHz in the WCDMA Band 5

#### MID CHANNEL(881.6 MHz)

#### HORIZONTAL PEAK PLOT



#### VERTICAL PEAK PLOT



#### DATA

#### Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	71.552	9.77	Pk	14.8	1.8	26.37	40	-13.63	0-360	200	H
2	98.894	12.01	Pk	17.4	2.1	31.51	43.52	-12.01	0-360	200	H
3	604.77	7.19	Pk	25.2	5.1	37.49	46.02	-8.53	0-360	300	H
4	836.6125	71.49	Pk	27.1	6	104.59	46.02	58.57	0-360	200	H
5	34.41	15.33	Pk	16.4	1.1	32.83	40	-7.17	0-360	200	V
6	96.542	11.15	Pk	17	2.1	30.25	43.52	-13.27	0-360	200	V
7	604.084	5.52	Pk	25.2	5.1	35.82	46.02	-10.2	0-360	400	V
8	837.7713	68.4	Pk	27.1	6	101.5	46.02	55.48	0-360	100	V

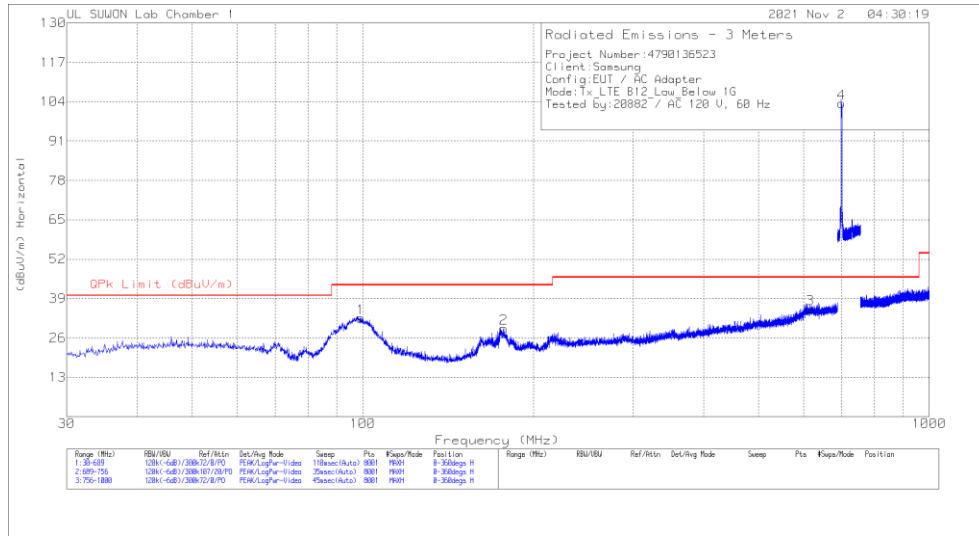
Pk - Peak detector

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

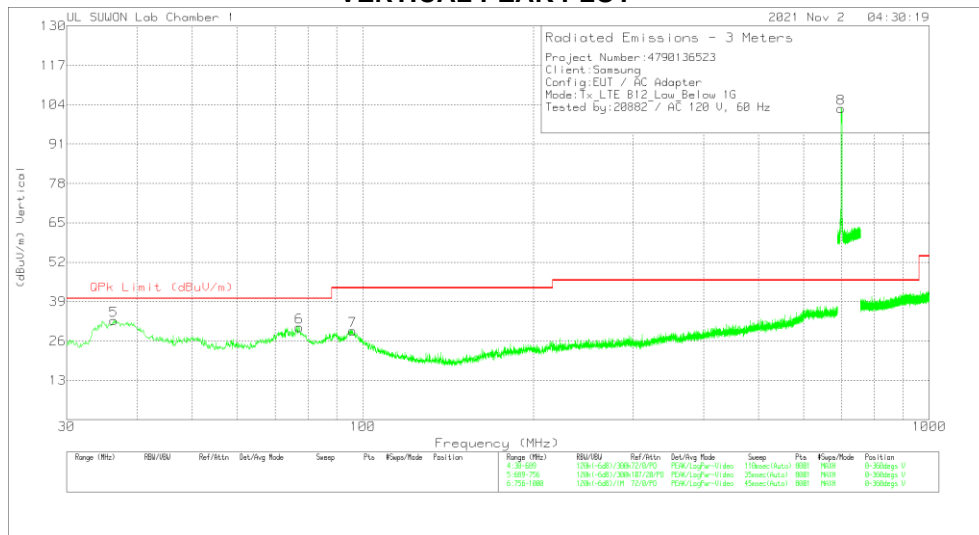
### 7.1.8. Below 1 GHz in the LTE Band 12

#### LOW CHANNEL(730.5 MHz)

#### HORIZONTAL PEAK PLOT



#### VERTICAL PEAK PLOT



#### DATA

##### Trace Markers

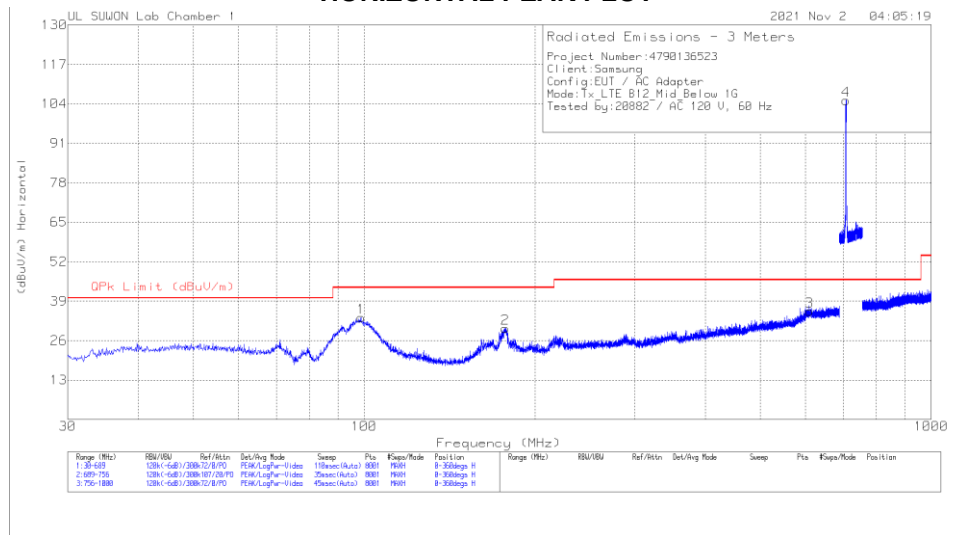
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	99.1126	13.13	Pk	17.4	2.1	32.63	43.52	-10.89	0-360	200	H
2	177.2041	11.42	Pk	15.1	2.7	29.22	43.52	-14.3	0-360	100	H
3	616.3453	5.28	Pk	25.2	5.2	35.68	46.02	-10.34	0-360	200	H
4	699.6949	72.36	Pk	25.6	5.5	103.46	46.02	57.44	0-360	200	H
5	36.3429	14.31	Pk	17.2	1.2	32.71	40	-7.29	0-360	200	V
6	77.2833	15.89	Pk	12.7	1.9	30.49	40	-9.51	0-360	200	V
7	95.9824	10.43	Pk	16.8	2.1	29.33	43.52	-14.19	0-360	200	V
8	699.2761	71.71	Pk	25.6	5.5	102.81	46.02	56.79	0-360	100	V

Pk - Peak detector

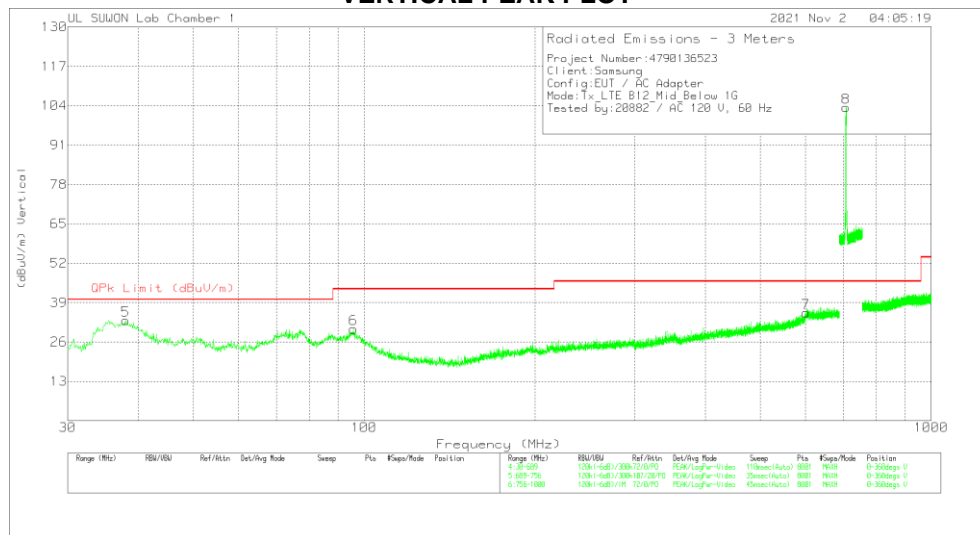
Note: Unwanted emissions captured from 699MHz to 716MHz and from 729MHz to 746MHz were the TX and RX signals generated from the call-simulator.

**MID CHANNEL(737.5 MHz)**

**HORIZONTAL PEAK PLOT**



**VERTICAL PEAK PLOT**



**DATA**

**Trace Markers**

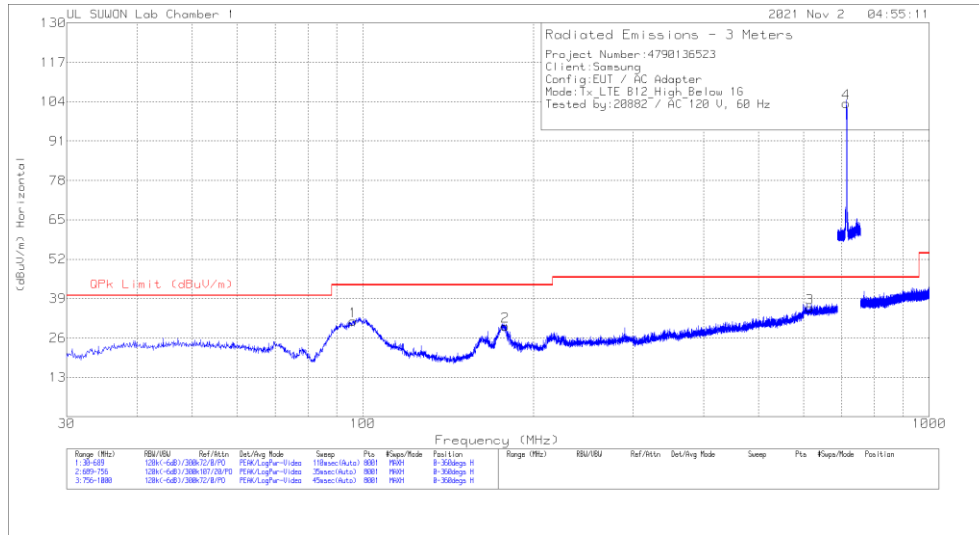
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	98.7008	14.17	Pk	17.4	2	33.57	43.52	-9.95	0-360	200	H
2	177.2865	12.22	Pk	15.1	2.7	30.02	43.52	-13.5	0-360	100	H
3	609.92	5.31	Pk	25.2	5.1	35.61	46.02	-10.41	0-360	100	H
4	707.5004	73.89	Pk	25.7	5.6	105.19	46.02	59.17	0-360	200	H
5	37.9904	14.09	Pk	17.9	1.2	33.19	40	-6.81	0-360	200	V
6	95.6529	11.62	Pk	16.7	2	30.32	43.52	-13.2	0-360	200	V
7	602.012	5.32	Pk	25.2	5.1	35.62	46.02	-10.4	0-360	400	V
8	707.6763	72.2	Pk	25.7	5.5	103.4	46.02	57.38	0-360	100	V

Pk - Peak detector

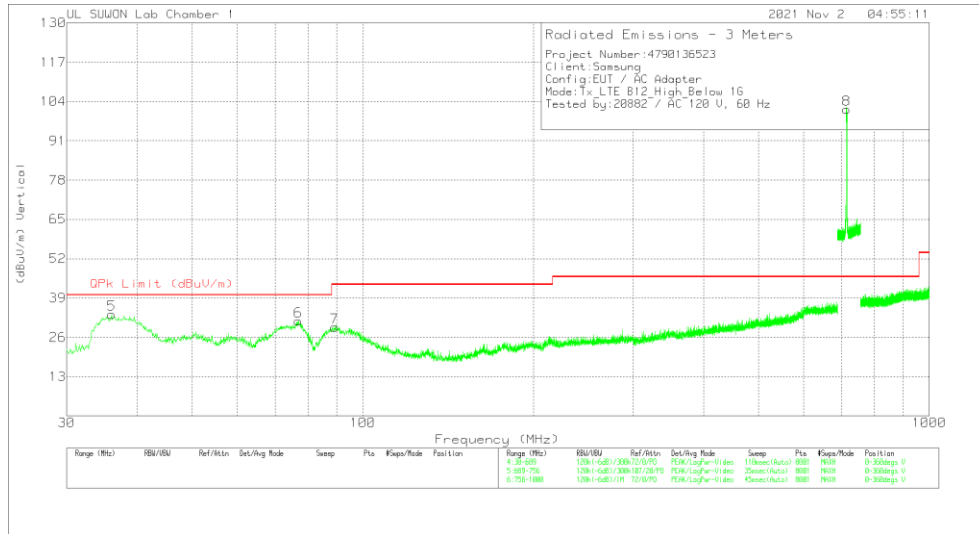
Note: Unwanted emissions captured from 699MHz to 716MHz and from 729MHz to 746MHz were the TX and RX signals generated from the call-simulator.

**HIGH CHANNEL(744.5 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	96.0648	12.84	Pk	16.8	2	31.64	43.52	-11.88	0-360	200	H
2	178.3574	11.95	Pk	15.2	2.8	29.95	43.52	-13.57	0-360	100	H
3	615.6863	5.67	Pk	25.2	5.1	35.97	46.02	-10.05	0-360	300	H
4	713.8151	72.22	Pk	25.7	5.6	103.52	46.02	57.5	0-360	200	H
5	36.0134	15.11	Pk	17.1	1.4	33.61	40	-6.39	0-360	200	V
6	76.9538	16.76	Pk	12.8	1.8	31.36	40	-8.64	0-360	200	V
7	89.1453	11.88	Pk	15.5	2	29.38	43.52	-14.14	0-360	200	V
8	714.46	70.1	Pk	25.7	5.6	101.4	46.02	55.38	0-360	100	V

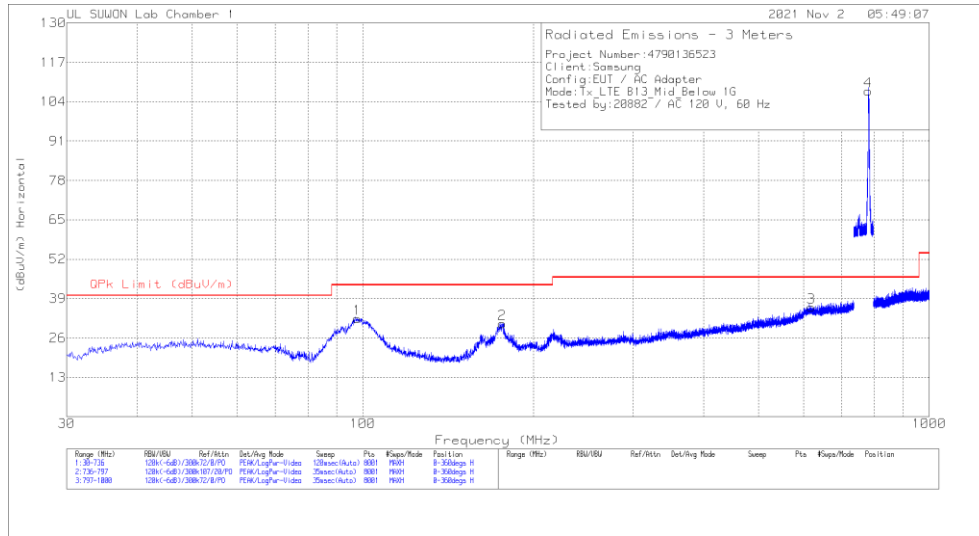
Pk - Peak detector

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

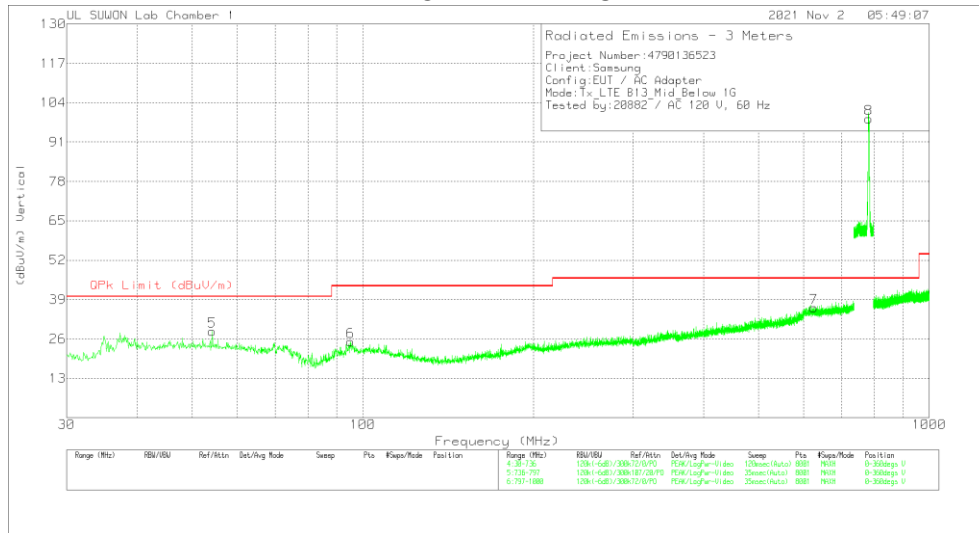
### 7.1.9. Below 1 GHz in the LTE Band 13

#### MID CHANNEL(751.0 MHz)

#### HORIZONTAL PEAK PLOT



#### VERTICAL PEAK PLOT



#### DATA

##### Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G_Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	97.6878	13.14	Pk	17.2	2.1	32.44	43.52	-11.08	0-360	200	H
2	176.2303	13.07	Pk	14.9	2.7	30.67	43.52	-12.85	0-360	100	H
3	618.804	5.82	Pk	25.2	5.2	36.22	46.02	-9.8	0-360	100	H
4	779.7828	74.96	Pk	26.7	5.8	107.46	46.02	61.44	0-360	200	H
5	54.1805	7.38	Pk	19.5	1.6	28.48	40	-11.52	0-360	200	V
6	95.2168	6.4	Pk	16.6	2.1	25.1	43.52	-18.42	0-360	300	V
7	625.0698	6.07	Pk	25.1	5.2	36.37	46.02	-9.65	0-360	400	V
8	781.7805	66.23	Pk	26.7	5.8	98.73	46.02	52.71	0-360	100	V

Pk - Peak detector

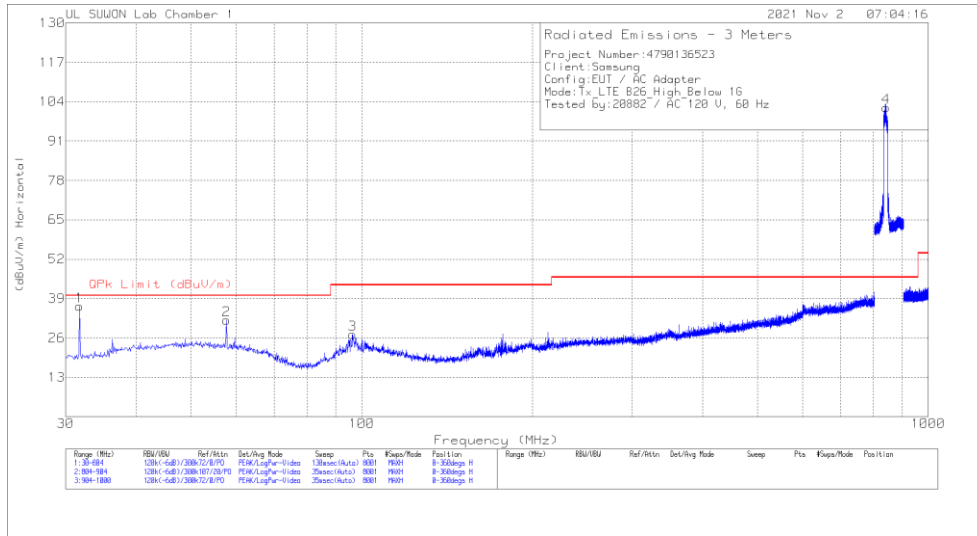
Note: Unwanted emissions captured from 777MHz to 787MHz and from 746MHz to 756MHz were the TX and RX signals generated from the call-simulator.



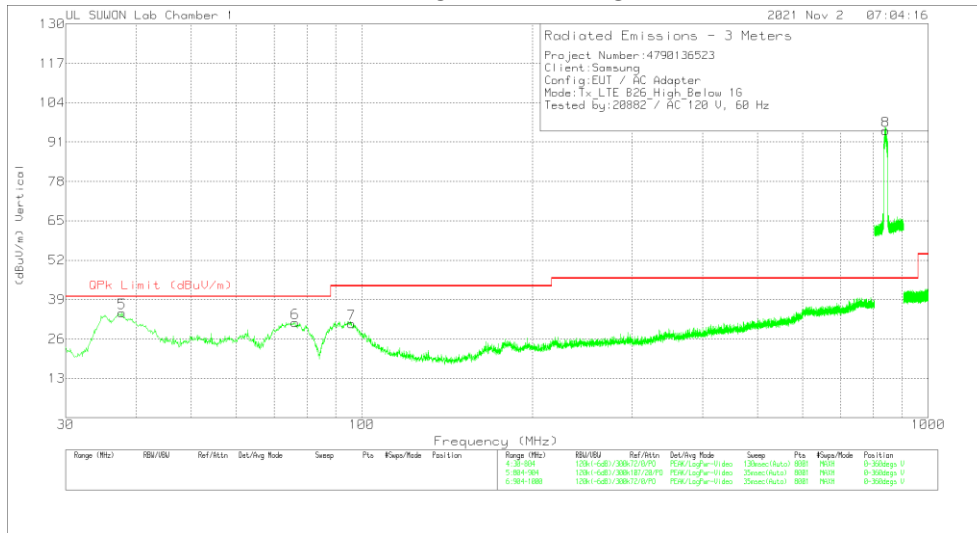
### 7.1.10. Below 1 GHz in the LTE Band 26

#### LOW CHANNEL (860.5 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	31.7415	19.86	Pk	15.6	1.1	36.56	40	-3.44	0-360	300	H
2	57.6705	11.18	Pk	19.1	1.6	31.88	40	-8.12	0-360	300	H
3	96.3705	8.15	Pk	16.9	2.1	27.15	43.52	-16.37	0-360	200	H
4	842.25	68.78	Pk	27.2	6.1	102.08	46.02	56.06	0-360	200	H
5	37.74	15.62	Pk	17.8	1.3	34.72	40	-5.28	0-360	200	V
6	76.2465	16.67	Pk	13	1.8	31.47	40	-8.53	0-360	200	V
7	95.8868	12.25	Pk	16.8	2	31.05	43.52	-12.47	0-360	200	V
8	841.325	61.56	Pk	27.2	6	94.76	46.02	48.74	0-360	100	V

Pk - Peak detector

**Radiated Emissions**

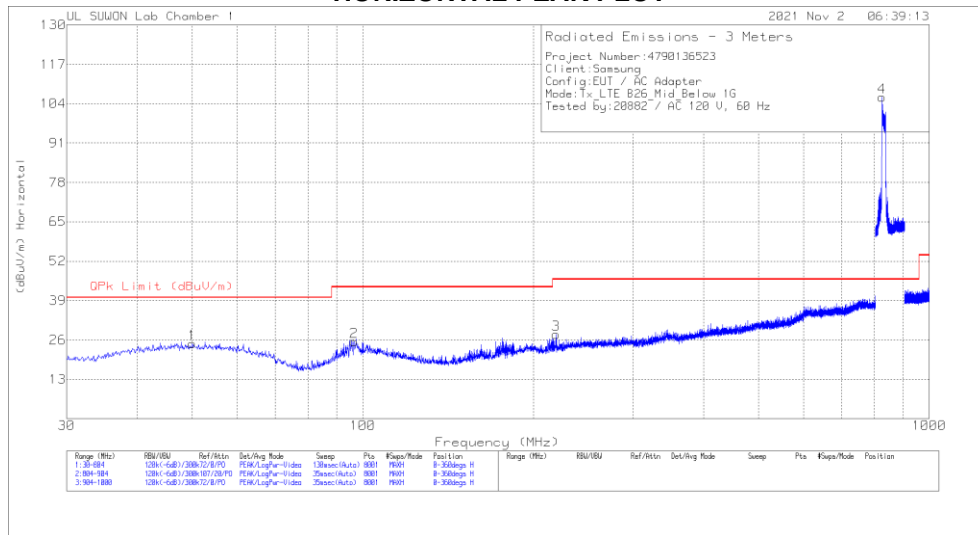
Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G_Bypass[dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
31.7415	-1.36	Qp	15.6	1.1	15.34	40	-24.66	116	325	H

Qp - Quasi-Peak detector

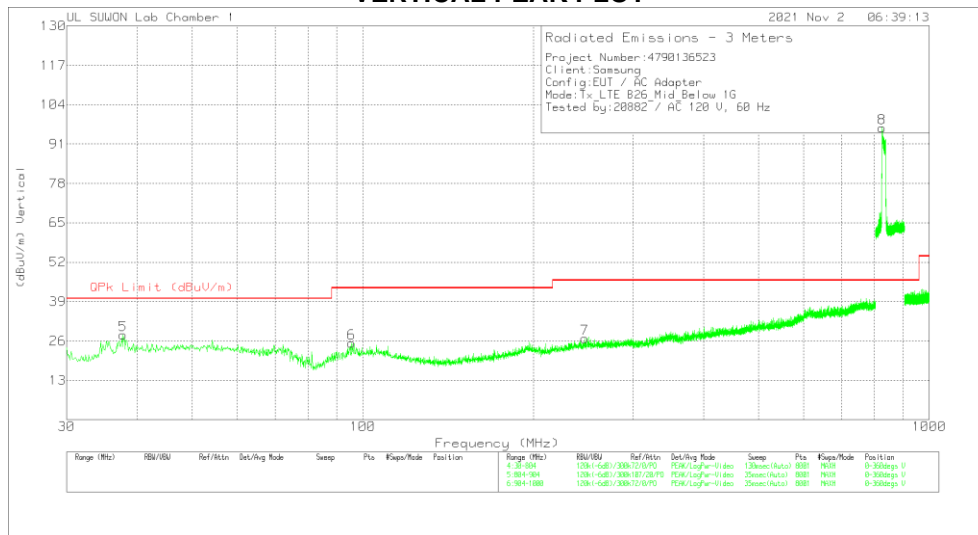
Note: Unwanted emissions captured from 814MHz to 849MHz and from 849MHz to 859MHz were the TX and RX signals generated from the call-simulator.

**MID CHANNEL(876.5 MHz)**

**HORIZONTAL PEAK PLOT**



**VERTICAL PEAK PLOT**



**DATA**

**Trace Markers**

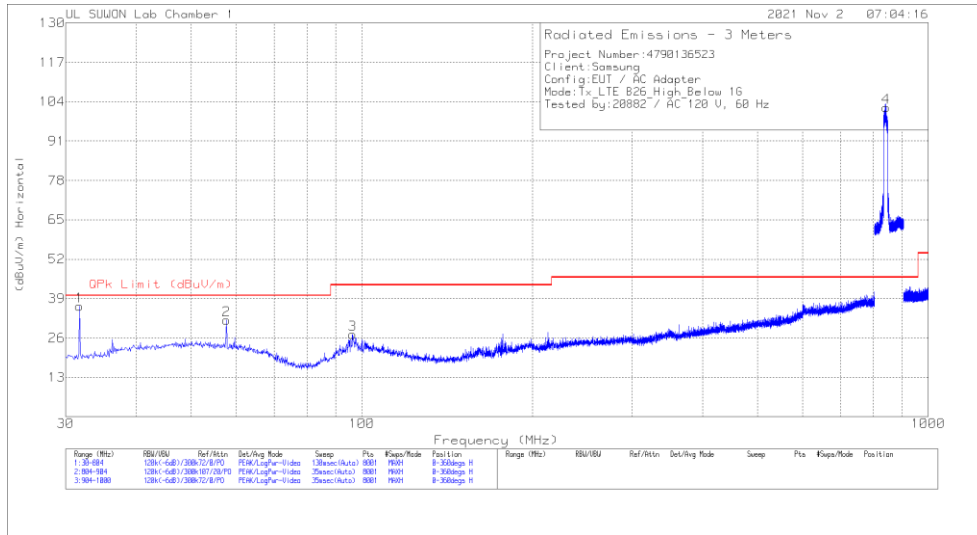
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163_750	Below_1G Bypass [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	49.9305	3.41	Pk	19.9	1.5	24.81	40	-15.19	0-360	200	H
2	96.4673	6.44	Pk	16.9	2.1	25.44	43.52	-18.08	0-360	200	H
3	219.243	7.64	Pk	17.1	3.1	27.84	46.02	-18.18	0-360	100	H
4	825.5125	73.01	Pk	27.1	6	106.11	46.02	60.09	0-360	200	H
5	37.74	8.85	Pk	17.8	1.3	27.95	40	-12.05	0-360	200	V
6	95.5965	6.49	Pk	16.7	2.1	25.29	43.52	-18.23	0-360	200	V
7	246.6233	5.15	Pk	18.4	3.3	26.85	46.02	-19.17	0-360	400	V
8	825.5125	63.29	Pk	27.1	6	96.39	46.02	50.37	0-360	100	V

Pk - Peak detector

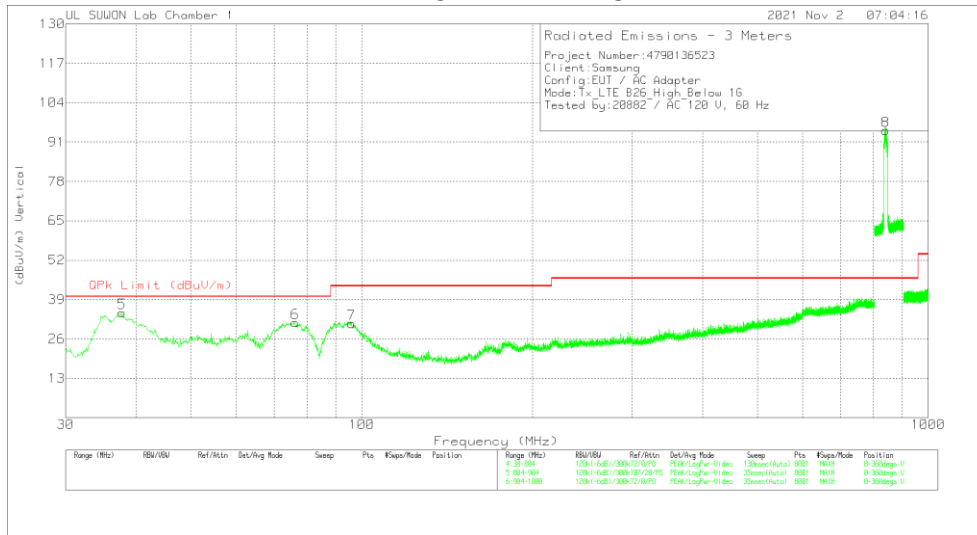
Note: Unwanted emissions captured from 814MHz to 849MHz and from 849MHz to 859MHz were the TX and RX signals generated from the call-simulator.

**HIGH CHANNEL(892.5 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	31.7415	19.86	Pk	15.6	1.1	36.56	40	-3.44	0-360	300	H
2	57.6705	11.18	Pk	19.1	1.6	31.88	40	-8.12	0-360	300	H
3	96.3705	8.15	Pk	16.9	2.1	27.15	43.52	-16.37	0-360	200	H
4	842.25	68.78	Pk	27.2	6.1	102.08	46.02	56.06	0-360	200	H
5	37.74	15.62	Pk	17.8	1.3	34.72	40	-5.28	0-360	200	V
6	76.2465	16.67	Pk	13	1.8	31.47	40	-8.53	0-360	200	V
7	95.8868	12.25	Pk	16.8	2	31.05	43.52	-12.47	0-360	200	V
8	841.325	61.56	Pk	27.2	6	94.76	46.02	48.74	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
31.7415	-1.36	Qp	15.6	1.1	15.34	40	-24.66	116	325	H

Qp - Quasi-Peak detector

Note: Unwanted emissions captured from 814MHz to 849MHz and from 849MHz to 859MHz were the TX and 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  $\mu$ 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 $\mu$ 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

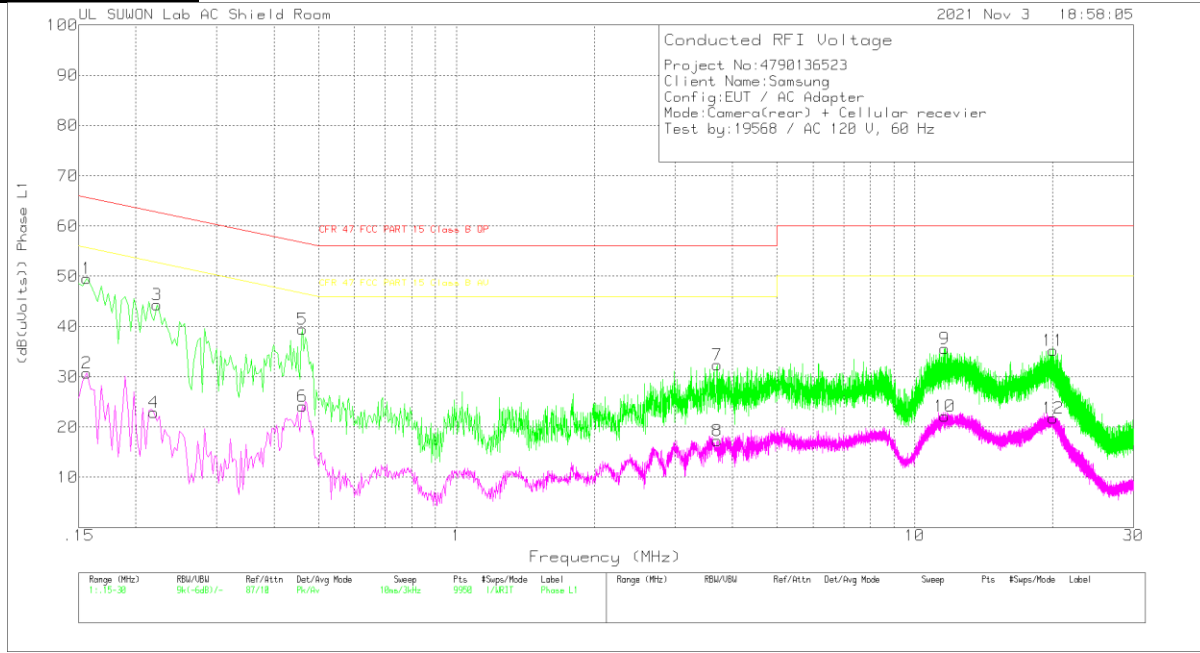
Notes:  
 1. The lower limit shall apply at the transition frequencies  
 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

## 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_Wit h 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	.156	39.64	Pk	9.8	.1	49.54	65.67	-16.13	-	-
2	.156	20.8	Av	9.8	.1	30.7	-	-	55.67	-24.97
3	.222	34.45	Pk	9.7	.2	44.35	62.74	-18.39	-	-
4	.219	12.98	Av	9.7	.2	22.88	-	-	52.86	-29.98
5	.462	29.42	Pk	9.9	.2	39.52	56.66	-17.14	-	-
6	.462	14.08	Av	9.9	.2	24.18	-	-	46.66	-22.48
7	3.714	22.41	Pk	9.7	.3	32.41	56	-23.59	-	-
8	3.714	7.24	Av	9.7	.3	17.24	-	-	46	-28.76
9	11.625	25.45	Pk	9.9	.3	35.65	60	-24.35	-	-
10	11.625	11.93	Av	9.9	.3	22.13	-	-	50	-27.87
11	20.034	24.66	Pk	10.2	.4	35.26	60	-24.74	-	-
12	20.025	11.15	Av	10.2	.4	21.75	-	-	50	-28.25

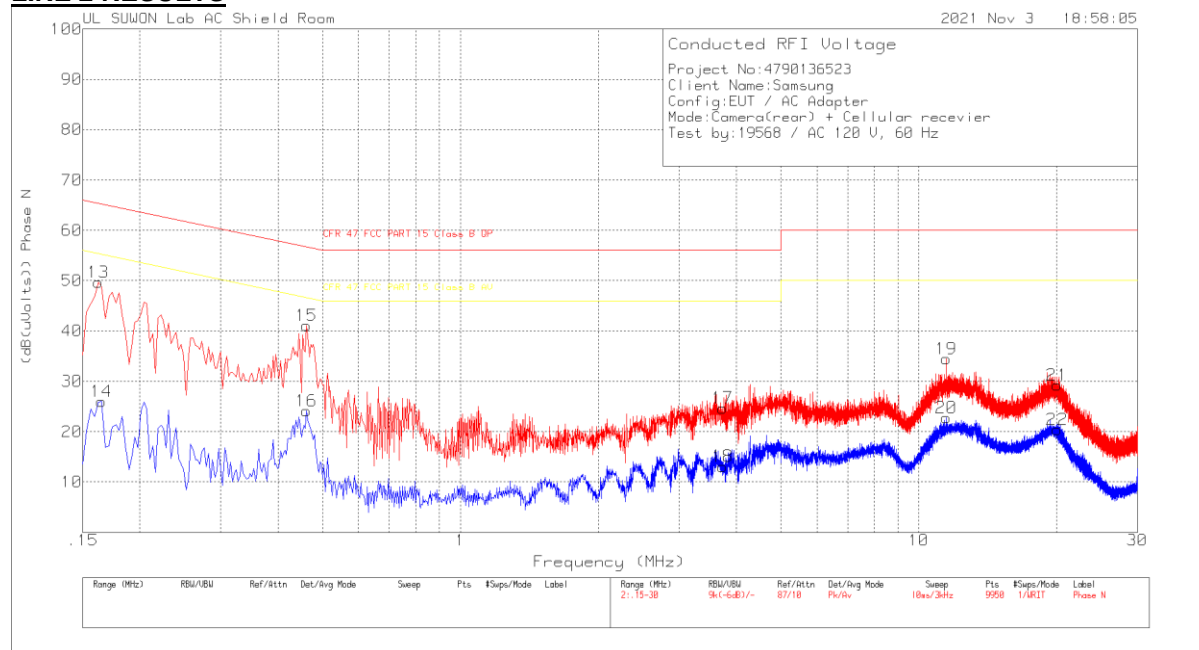
Pk - Peak detector

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_Wit h 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	.162	39.65	Pk	9.9	.1	49.65	65.36	-15.71	-	-
14	.165	16.03	Av	9.9	.1	26.03	-	-	55.21	-29.18
15	.462	30.93	Pk	9.9	.2	41.03	56.66	-15.63	-	-
16	.462	14.01	Av	9.9	.2	24.11	-	-	46.66	-22.55
17	3.735	14.69	Pk	9.7	.3	24.69	56	-31.31	-	-
18	3.735	3.1	Av	9.7	.3	13.1	-	-	46	-32.9
19	11.472	24.28	Pk	9.9	.3	34.48	60	-25.52	-	-
20	11.472	12.54	Av	9.9	.3	22.74	-	-	50	-27.26
21	20.067	18.49	Pk	10.3	.4	29.19	60	-30.81	-	-
22	20.073	9.7	Av	10.3	.4	20.4	-	-	50	-29.6

Pk - Peak detector  
 Av - Average detection

**END OF TEST REPORT**