

# TEST REPORT

**Applicant:** Realme Chongqing Mobile Telecommunications Corp., Ltd.  
**Address:** No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China  
**Equipment Type:** Mobile Phone  
**Model Name:** RMX3741  
**Brand Name:** realme  
**FCC ID:** 2AUYFRMX3741  
**Test Standard:** 47 CFR Part 15 Subpart B  
ANSI C63.4-2014  
**Sample Arrival Date:** Feb. 28, 2023  
**Test Date:** Mar. 06, 2023 - Mar. 15, 2023  
**Date of Issue:** May 05, 2023

**ISSUED BY:**

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Zhang Guoxi

**Checked by:** Xia Long

**Approved by:** Liao Jianming  
(Technical Director)

*Zhang Guoxi*

*Xia Long*

*Liao Jianming*

<b>Revision History</b>		
Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>May 05, 2023</u>	<u>Initial Issue</u>

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# 1 GENERAL INFORMATION

## 1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

## 1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	<input checked="" type="checkbox"/> Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	<input type="checkbox"/> 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

## 2 PRODUCT INFORMATION

### 2.1 Applicant Information

Applicant	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

### 2.2 Manufacturer Information

Manufacturer	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

### 2.3 Factory Information

Factory	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address	No.178 Yulong Avenue, Yufengshan, Yubei District, Chongqing, China

### 2.4 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	RMX3741
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	11
Software Version	realme UI 4.0
Dimensions (Approx.)	Plate Material: 161.6mm×73.9mm×8.2mm Leather: 161.6mm×73.9mm×8.7mm
Weight (Approx.)	Plate Material: 183g Leather: 189g
EUT ID	S11, S12,
IMEI Number	S11: IMEI1: 865631060041551, IMEI2: 865631060041544 S12: IMEI1: 865631060041239, IMEI2: 865631060041221

## 2.5 Ancillary Equipment

Ancillary Equipment 1	Li-Polymer Battery 1	
	Brand Name	SUPERVOOC
	Model No.	BLP975
	Serial No.	N/A
	Capacitance	Rated: 2435mAh/18.94Wh Typical: 2500mAh/19.45Wh
	Rated Voltage	7.78Vdc
	Limited Voltage	8.96Vdc
	Manufacturer	SUNWODA Electronic Co., Ltd
Ancillary Equipment 2	Power Supply Unit 1	
	Brand Name	SUPERVOOC
	Model No.	VCBAJAUH (USA Plug)
	Serial No.	N/A
	Rated Input	Input1: 100-130V~ 50/60Hz 2.5A; Input2: 200-240V~ 50/60Hz 2.5A
	Rated Output	Output1: 5.0 Vdc, 2.0A, 5.0-11.0Vdc 7.3A Output2: 5.0 Vdc, 2.0A, 5.0-11.0Vdc 9.1A
	Manufacturer	HUIZHOU GOLDEN LAKE INDUSTRIAL CO., LTD.
Ancillary Equipment 3	USB Cable	
	Model No.	DL129
	Length Approx.	1.0 m
Ancillary Equipment 4	Headset	
	Model No.	MH147
	Length Approx.	1.18 m
Note 1: Letter in ( ) means plug type.		

## 2.6 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/1900 MHz 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network LTE FDD Band 2/4/5/7/12/13/17/26/66 LTE TDD Band 38/41 LTE CA Uplink (UL): CA_7C, CA_38C, CA_41C 5G Network SA: NR n5/n7/n38/n41/n66 NSA: DC_2A_n66A, DC_5A_n7A, DC_5A_n66A, DC_7A_n5A, DC_7_n66A, DC_26A_n41A, DC_66A_n5A, DC_66A_n7A Bluetooth 5.2 (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40), VHT20/40 and 802.11ax(HE20/40) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80) and 802.11ax(HE20/40/80) U-NII-1/2A/2C/3, GPS, NFC, BeiDou, Galileo, GLONASS, SBAS
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The requirement for the following technical information of the EUT was tested in this report:

The Highest Speed of Processor	N/A
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### 3 SUMMARY OF TEST RESULTS

#### 3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15 Subpart B	Unintentional Radiators
2	ANSI C63.4-2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

#### 3.2 Verdict

No.	Description	FCC Rule	Test Verdict	Result
1	Radiated Emission	15.109	Pass	Annex A .1
2	Conducted Emission, AC Ports	15.107	Pass	Annex A .2

#### 3.3 Test Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Measurement	Value
Conducted emissions (9 kHz-30 MHz)	3.22 dB
Radiated emissions (30 MHz-1 GHz)-10m	4.80 dB
Radiated emissions (30 MHz-1 GHz)-3m	4.76 dB
Radiated emissions (1 GHz-18 GHz)-3m	4.88 dB



## 4 GENERAL TEST CONFIGURATIONS

### 4.1 Test Environments, Test Date and Test Engineer

Test items	Voltage	Temperature	Relative Humidity	Ambient Pressure	Test Date	Test Engineer
Radiated Emission	AC 230V/50Hz AC 120V/60Hz DC 7.78V(battery)	20.8℃	50%	101kPa	Mar. 02, 2023	He Shichang
Conducted Emission	AC 230V/50Hz AC 120V/60Hz DC 7.78V(battery)	20.7℃	42%		Mar. 06, 2023	Liang Yongming

### 4.2 Test Equipment List

Radiated Emission Test For Frequency Below 1 GHz (3m)						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	Keysight	N9038A	MY55330120	2022.09.09	2023.09.08	<input checked="" type="checkbox"/>
Amplifier (30-1GHz)	COM-MV	ZT30-1000M	B2017119081	2022.12.07	2023.12.06	<input checked="" type="checkbox"/>
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	9168-00867	2022.04.12	2025.04.11	<input checked="" type="checkbox"/>
Anechoic Chamber	YiHeng	9m*6m*6m	142	2021.08.19	2024.08.18	<input checked="" type="checkbox"/>
Description	Manufacturer	Name		Version		Use
Test Software	BALUN	BL410-E		V22.930		<input checked="" type="checkbox"/>

Radiated Emission Test For Frequency Above 1 GHz (3m)						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	Keysight	N9038A	MY55330120	2022.09.09	2023.09.08	<input checked="" type="checkbox"/>
Amplifier (1-12GHz)	Advanced Microwave	WLA652A	1740103	2022.12.07	2023.12.06	<input checked="" type="checkbox"/>
Amplifier (0.8-21GHz)	Mini-Circuits	ZVA-213-S+	225321316	2022.12.07	2023.12.06	<input checked="" type="checkbox"/>
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	01917	2022.06.09	2025.06.08	<input checked="" type="checkbox"/>
Anechoic Chamber	YiHeng	9m*6m*6m	142	2021.08.19	2024.08.18	<input checked="" type="checkbox"/>
Description	Manufacturer	Name		Version		Use
Test Software	BALUN	BL410-E		V22.930		<input checked="" type="checkbox"/>

Conducted disturbance Test						
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2022.09.09	2023.09.08	<input checked="" type="checkbox"/>
LISN	SCHWARZBECK	NSLK 8127	8127-687	2022.06.01	2023.05.31	<input checked="" type="checkbox"/>
ISN	TESEQ	ISN T800	34449	2022.11.11	2023.11.10	<input type="checkbox"/>
ISN	TESEQ	ISN T8-Cat6	53561	2022.05.24	2023.05.23	<input type="checkbox"/>
Shielded Room	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8m	112	2022.02.19	2025.02.18	<input checked="" type="checkbox"/>
Description	Manufacturer	Name		Version		Use
Test Software	BALUN	BL410-E		V22.930		<input checked="" type="checkbox"/>

### 4.3 Test Enclosure list

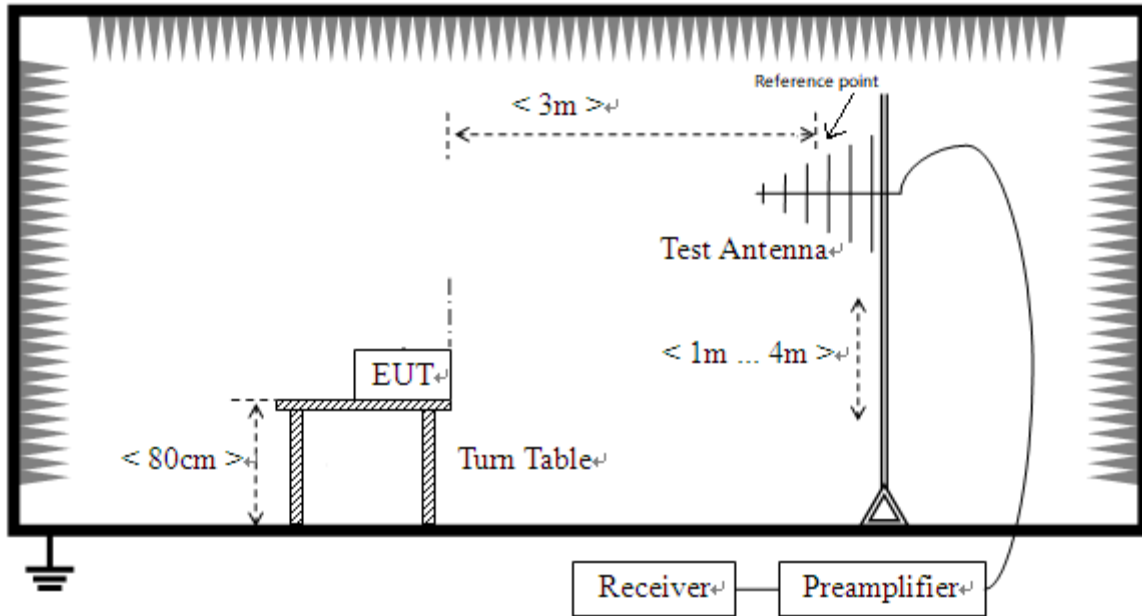
Description	Manufacturer	Model	Serial No.	Length	Description	Use
Wireless Communications Test Set	R&S	CMW500	127801	N/A	Cal. Due 2023.12.27	<input checked="" type="checkbox"/>
Laptop	Lenovo	N/A	N/A	N/A	N/A	<input checked="" type="checkbox"/>
Data connector	N/A	N/A	N/A	N/A	N/A	<input checked="" type="checkbox"/>
USB disk	Sandisk	N/A	N/A	N/A	N/A	<input checked="" type="checkbox"/>

## 4.4 Test Configurations

Test Configurations (TC) No.	Description
TC01	<u>The GSM 850 MHz RX Test Mode</u> GSM 850 MHz RX + EUT +Adapter + USB Cable + Battery
TC02	<u>The EGPRS 850 MHz RX Test Mode</u> EGPRS 850 MHz RX + EUT +Adapter + USB Cable + Battery
TC03	<u>The WCDMA Band 5 RX Test Mode</u> WCDMA Band 5 RX + EUT +Adapter + USB Cable + Battery
TC04	<u>The FDD LTE Band 5 RX Test Mode</u> LTE Band 5 RX + EUT +Adapter + USB Cable + Battery
TC05	<u>The FDD LTE Band 12 RX Test Mode</u> LTE Band 12 RX + EUT +Adapter + USB Cable + Battery
TC06	<u>The FDD LTE Band 13 RX Test Mode</u> LTE Band 13 RX + EUT +Adapter + USB Cable + Battery
TC07	<u>The FDD LTE Band 17 RX Test Mode</u> LTE Band 17 RX + EUT +Adapter + USB Cable + Battery
TC08	<u>The FDD LTE Band 26 RX Test Mode</u> LTE Band 26 RX + EUT +Adapter + USB Cable + Battery
TC09	<u>The n5 Test Mode</u> n5 RX + EUT + Adapter + USB Cable + Battery
TC10	<u>The Camera Test Mode</u> EUT + Adapter + USB Cable + Battery
TC11	<u>The Video Play Test Mode</u> EUT + Adapter + USB Cable + Battery
TC12	<u>The USB Test Mode</u> EUT + USB Cable + Battery + Laptop
TC13	<u>The OTG Test Mode</u> EUT + Battery + Data connector + USB Disk
TC14	<u>The Type-C Headset Test Mode</u> EUT + Type-C Headset + Battery

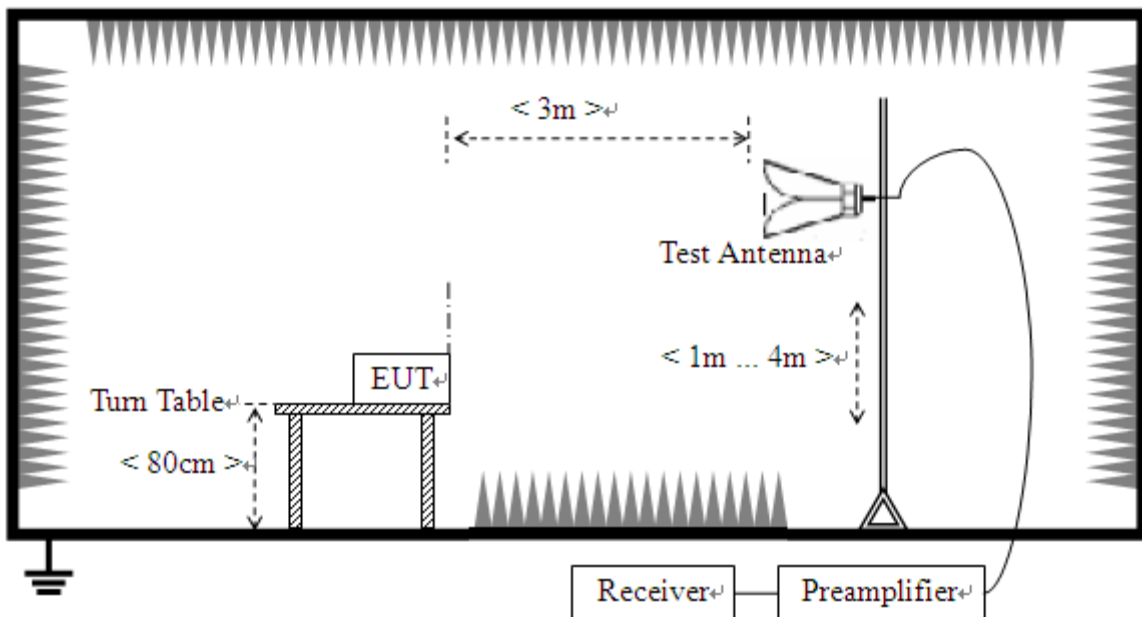
## 4.5 Test Setups

### Test Setup 1



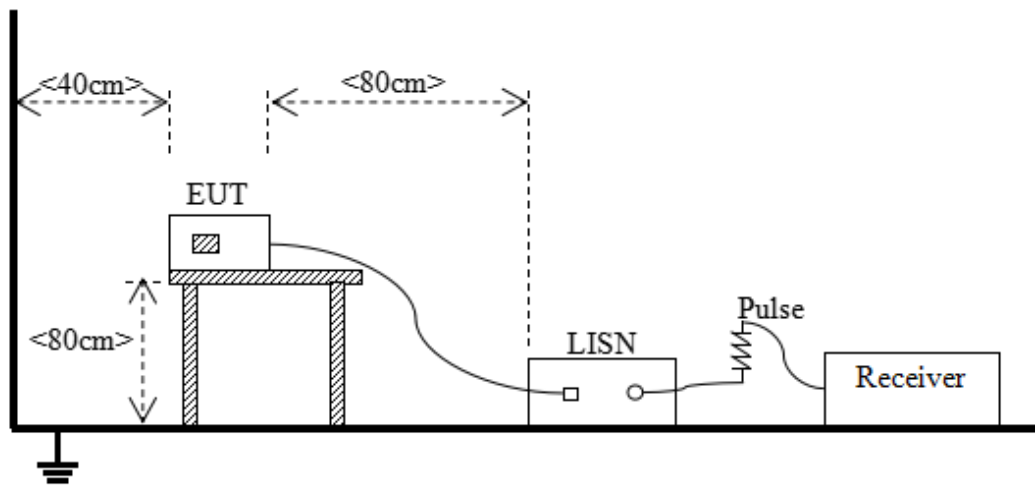
(For Radiated Emission Test (30 MHz-1 GHz))

### Test Setup 2



(For Radiated Emission Test (above 1 GHz))

Test Setup 3



(For Conducted Emission, AC Ports Test)

## 4.6 Test Conditions

Test Case	Test Conditions	
Radiated Emission	Test Setup	Test Setup 1&2
	Test Configuration	TC01~TC014 <small>Note</small>
Conducted Emission, AC Ports	Test Setup	Test Setup 3
	Test Configuration	TC01~TC012 <small>Note</small>
<p>Note: Based on client request, all normal using modes of the normal function were tested but only the worst test data of the worst mode is reported by this report.</p>		

## 5 TEST ITEMS

### 5.1 Emission Tests

#### 5.1.1 Radiated Emission

##### 5.1.1.1 Limit

Frequency range (MHz)	Class B (at 3 m)		Class B (at 10 m)	Class A (at 10 m)	
	Field Strength ( $\mu\text{V/m}$ )	Field Strength ( $\text{dB}\mu\text{V/m}$ )	Field Strength ( $\text{dB}\mu\text{V/m}$ )	Field Strength ( $\mu\text{V/m}$ )	Field Strength ( $\text{dB}\mu\text{V/m}$ )
30 - 88	100	40	30	90	39
88 - 216	150	43.5	33.5	150	43.5
216 - 960	200	46	36	210	46.4
Above 960	500	54	44	300	49.5

NOTE:

- 1) Field Strength ( $\text{dB}\mu\text{V/m}$ ) =  $20 \cdot \log$  [Field Strength ( $\mu\text{V/m}$ )].
- 2) The lower limit shall apply at the transition frequency.

##### 5.1.1.2 Test Setup

Refer to 4.5 section (test setup 1 to test setup 2) for radiated emission test, the photo of test setup please refer to ANNEX B.

##### 5.1.1.3 Test Procedure

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

An initial pre-scan was performed in the chamber using the EMI Receiver in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bi-Log antenna with 2 orthogonal polarities.

The measurement frequency range is from 30 MHz to the 5th harmonic of the maximum frequency of the EUT internal source. The Turn Table is actuated to turn from  $0^\circ$  to  $360^\circ$ , and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for  $f \geq 1$  GHz, 100 kHz for  $f < 1$  GHz

VBW  $\geq$  RBW

Sweep = auto

Detector function = peak for  $f < 1$  GHz, peak & RMS Average for  $f \geq 1$  GHz



Trace = max hold

#### 5.1.1.4 Test Result

Please refer to ANNEX A.1.

#### NOTE:

1. Results (dB $\mu$ V/m) = Reading (dB $\mu$ V/m) + Factor (dB/m)

The reading level is calculated by software which is not shown in the sheet

2. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Amplifier Gain (dB)

3. Over limit = Results – Limit.

## 5.1.2 Conducted Emission

### 5.1.2.1 Test Limit

Frequency range (MHz)	Class A	
	Quasi-peak (dB $\mu$ V)	Average (dB $\mu$ V)
0.15 - 0.50	79	66
0.50 - 30	73	60

Frequency range (MHz)	Class B	
	Quasi-peak (dB $\mu$ V)	Average (dB $\mu$ V)
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

**NOTE:**

- 1) The lower limit shall apply at the transition frequency..
- 2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50 MHz.

### 5.1.2.2 Test Setup

Refer to 4.5 section test (test setup 3) for conducted emission, the photo of test setup please refer to ANNEX B.

### 5.1.2.3 Test Procedure

The EUT is connected to the power mains through a LISN which provides 50  $\Omega$ /50  $\mu$ H of coupling impedance for the measuring instrument. The test frequency range is from 150 kHz to 30 MHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels that are more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

Use the following spectrum analyzer settings:

RBW = 9 kHz

VBW  $\geq$  RBW

Sweep = 10ms

Detector function = peak & Average

Trace = max hold

#### 5.1.2.4 Test Result

Please refer to ANNEX A.2.

NOTE:

1. Results (dB $\mu$ V) = Reading (dB $\mu$ V) + Factor (dB)

The reading level is calculated by software which is not shown in the sheet

2. Factor = Insertion loss + Cable loss

3. Over limit = Results – Limit.

# ANNEX A TEST RESULTS

## A.1 Radiated Emission

Note 1: The symbol of "--" in the table which means not application.

Note 2: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

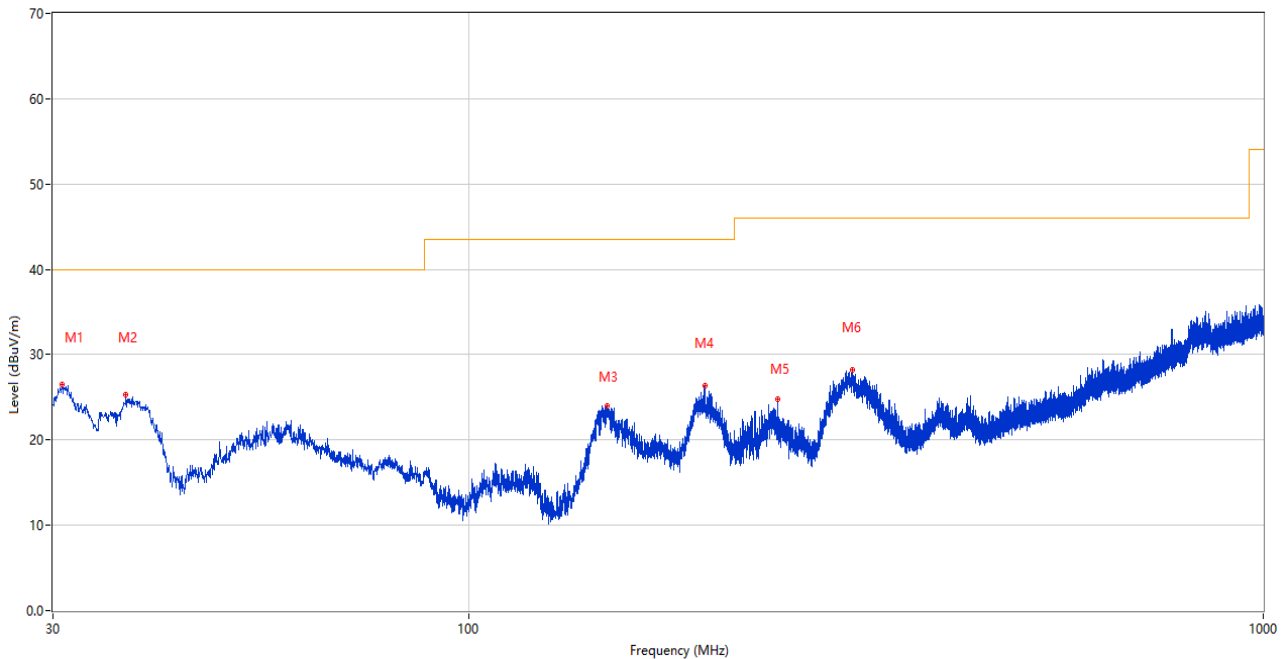
Note 3: The Radiated Emission from 18G-40G is noise only, do not show on the report.

Note 4: All the configurations were pre tested, only the worst configuration has been reported in this report.

### Test Data and Plots

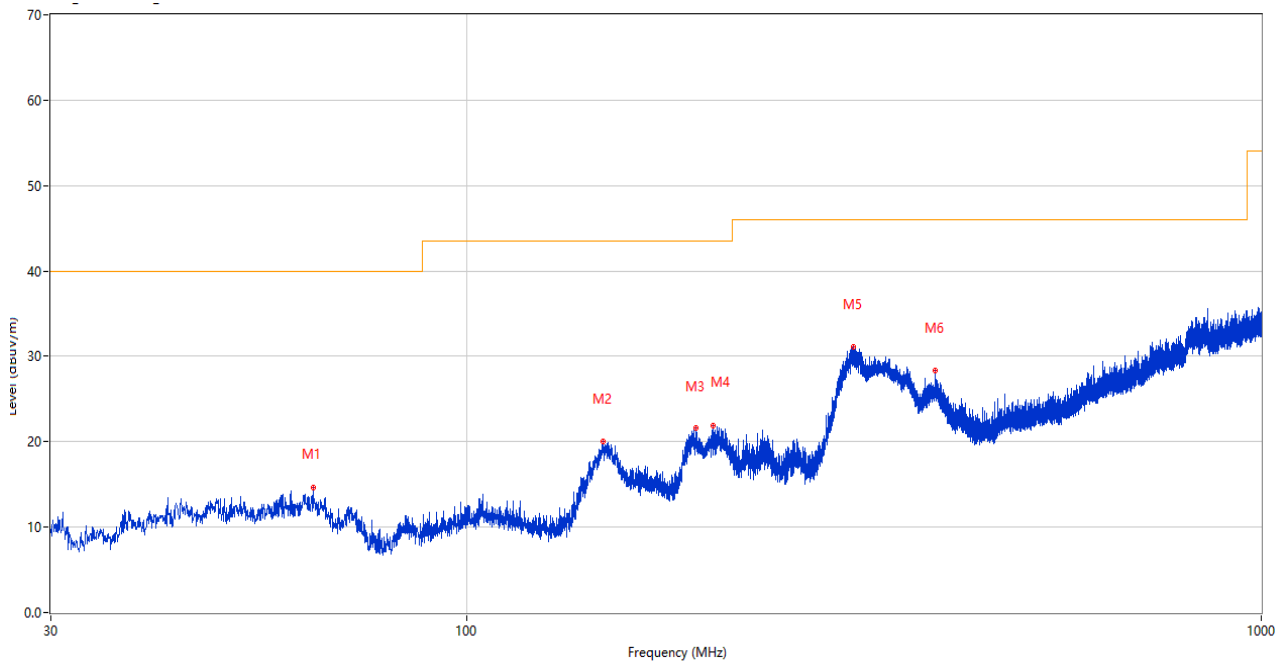
#### The GSM 850 MHz RX Test Mode

##### A.1.1 Test Antenna Vertical, 30 MHz – 1 GHz



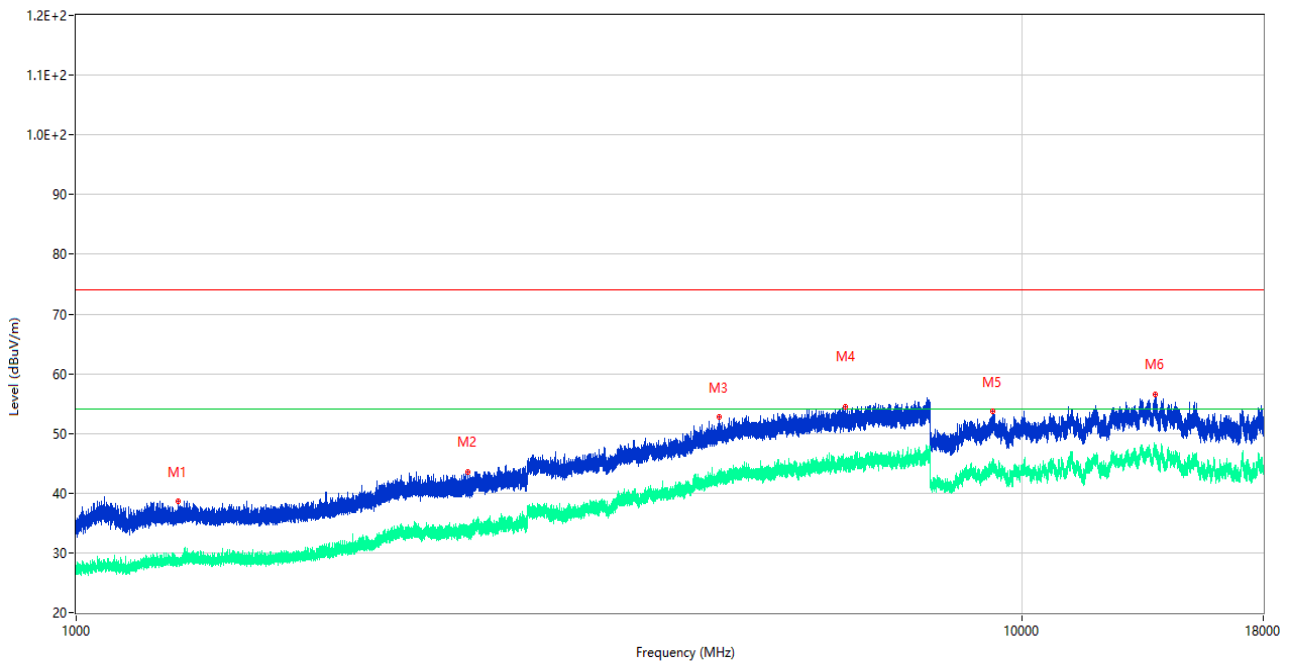
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.825	26.48	-28.13	40.0	13.52	Peak	360.00	100	Vertical	Pass
2	37.081	25.30	-26.50	40.0	14.70	Peak	360.00	100	Vertical	Pass
3	149.262	23.94	-28.24	43.5	19.56	Peak	1.00	100	Vertical	Pass
4	198.295	26.40	-24.10	43.5	17.10	Peak	48.00	100	Vertical	Pass
5	244.855	24.78	-22.49	46.0	21.22	Peak	40.00	100	Vertical	Pass
6	304.170	28.18	-20.70	46.0	17.82	Peak	85.00	200	Vertical	Pass

A.1.2 Test Antenna Horizontal, 30 MHz – 1 GHz



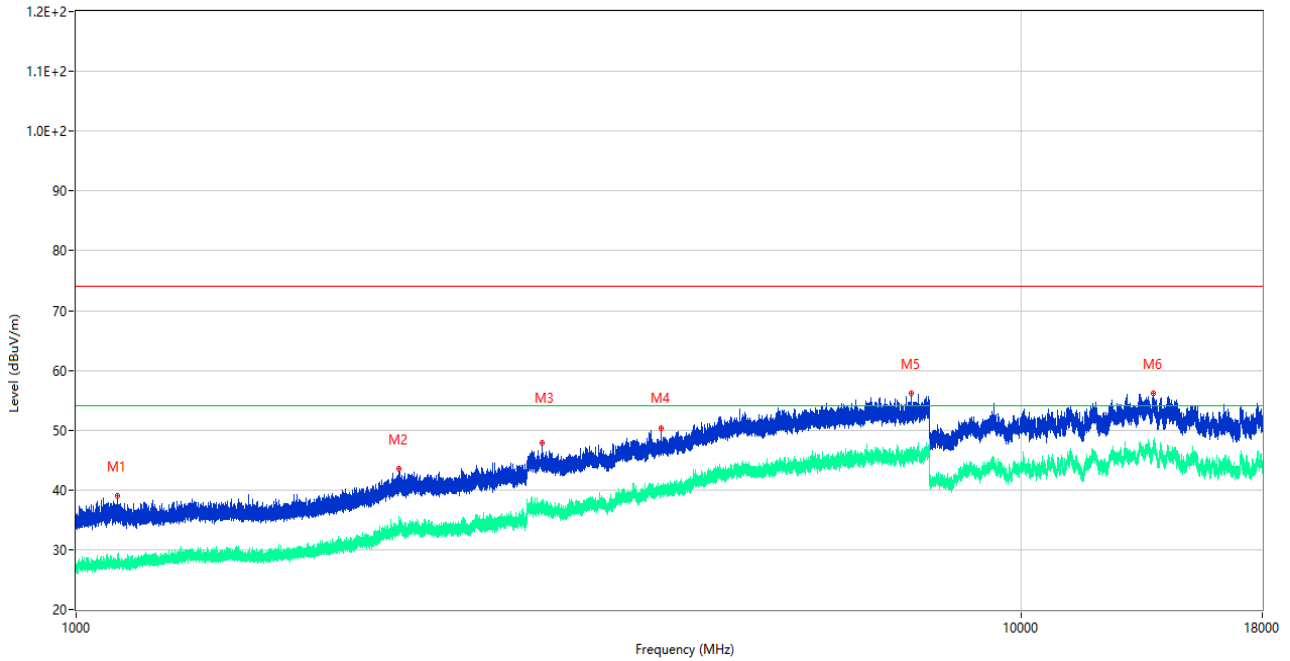
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	64.192	14.59	-25.96	40.0	25.41	Peak	55.00	100	Horizontal	Pass
2	148.340	20.09	-28.28	43.5	23.41	Peak	123.00	200	Horizontal	Pass
3	194.512	21.58	-24.40	43.5	21.92	Peak	268.00	200	Horizontal	Pass
4	204.115	21.84	-24.29	43.5	21.66	Peak	115.00	100	Horizontal	Pass
5	307.178	31.15	-20.56	46.0	14.85	Peak	267.00	100	Horizontal	Pass
6	388.512	28.32	-17.92	46.0	17.68	Peak	181.00	100	Horizontal	Pass

A.1.3 Test Antenna Vertical, 1 GHz – 18 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1281.100	38.60	-16.90	74.0	35.40	Peak	205.00	100	Vertical	Pass
1**	1281.100	28.29	-16.90	54.0	25.71	AV	205.00	100	Vertical	Pass
2	2595.000	43.63	-10.63	74.0	30.37	Peak	22.00	100	Vertical	Pass
2**	2595.000	32.63	-10.63	54.0	21.37	AV	22.00	100	Vertical	Pass
3	4782.750	52.73	0.88	74.0	21.27	Peak	298.00	100	Vertical	Pass
3**	4782.750	42.39	0.88	54.0	11.61	AV	298.00	100	Vertical	Pass
4	6505.750	54.49	1.12	74.0	19.51	Peak	169.00	100	Vertical	Pass
4**	6505.750	44.76	1.12	54.0	9.24	AV	169.00	100	Vertical	Pass
5	9326.500	53.69	2.17	74.0	20.31	Peak	33.00	100	Vertical	Pass
5**	9326.500	44.40	2.17	54.0	9.60	AV	33.00	100	Vertical	Pass
6	13821.500	56.59	5.54	74.0	17.41	Peak	144.00	100	Vertical	Pass
6**	13821.500	46.93	5.54	54.0	7.07	AV	144.00	100	Vertical	Pass

A.1.4 Test Antenna Horizontal, 1 GHz – 18 GHz

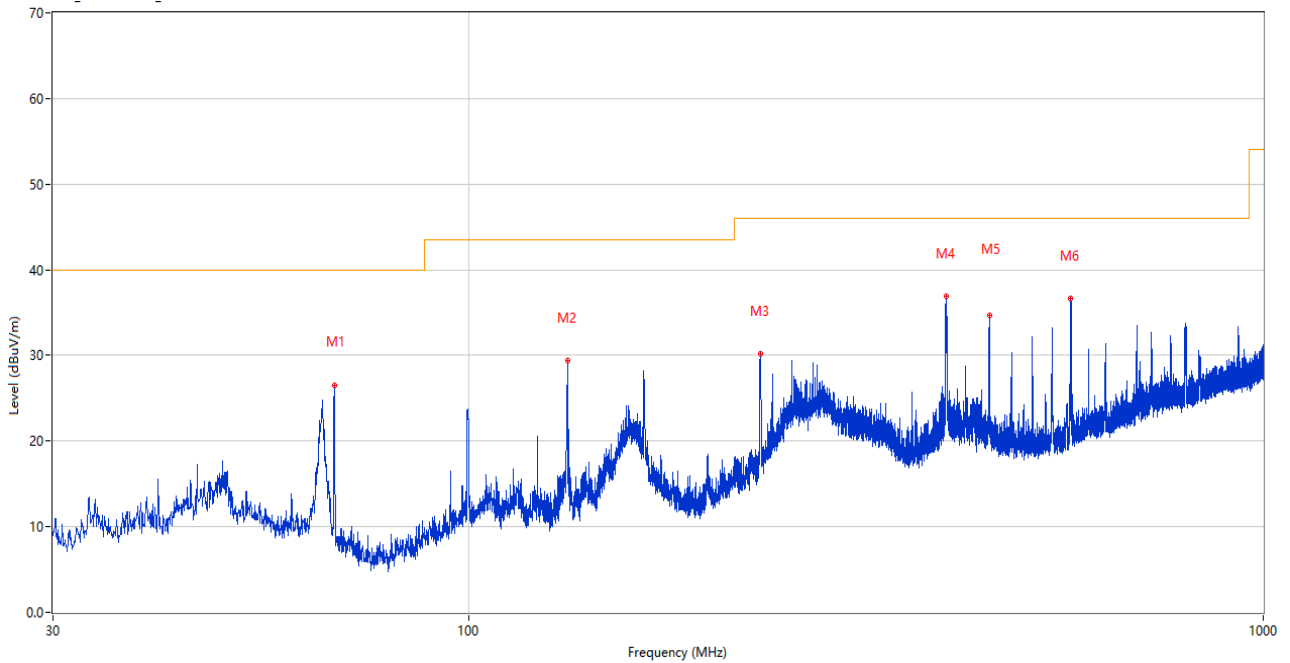


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Pass
1	1106.200	38.99	-17.78	74.0	35.01	Peak	360.00	100	Horizontal	Pass
1**	1106.200	27.72	-17.78	54.0	26.28	AV	360.00	100	Horizontal	Pass
2	2196.700	43.49	-11.95	74.0	30.51	Peak	0.00	100	Horizontal	Pass
2**	2196.700	35.62	-11.95	54.0	18.38	AV	0.00	100	Horizontal	Pass
3	3116.500	47.81	-6.17	74.0	26.19	Peak	198.00	100	Horizontal	Pass
3**	3116.500	36.52	-6.17	54.0	17.48	AV	198.00	100	Horizontal	Pass
4	4157.750	50.31	-2.90	74.0	23.69	Peak	250.00	100	Horizontal	Pass
4**	4157.750	40.06	-2.90	54.0	13.94	AV	250.00	100	Horizontal	Pass
5	7644.000	56.11	2.44	74.0	17.89	Peak	287.00	100	Horizontal	Pass
5**	7644.000	45.66	2.44	54.0	8.34	AV	287.00	100	Horizontal	Pass
6	13817.000	56.12	5.59	74.0	17.88	Peak	52.00	100	Horizontal	Pass
6**	13817.000	47.38	5.59	54.0	6.62	AV	52.00	100	Horizontal	Pass

Test Data and Plots

The USB Test Mode

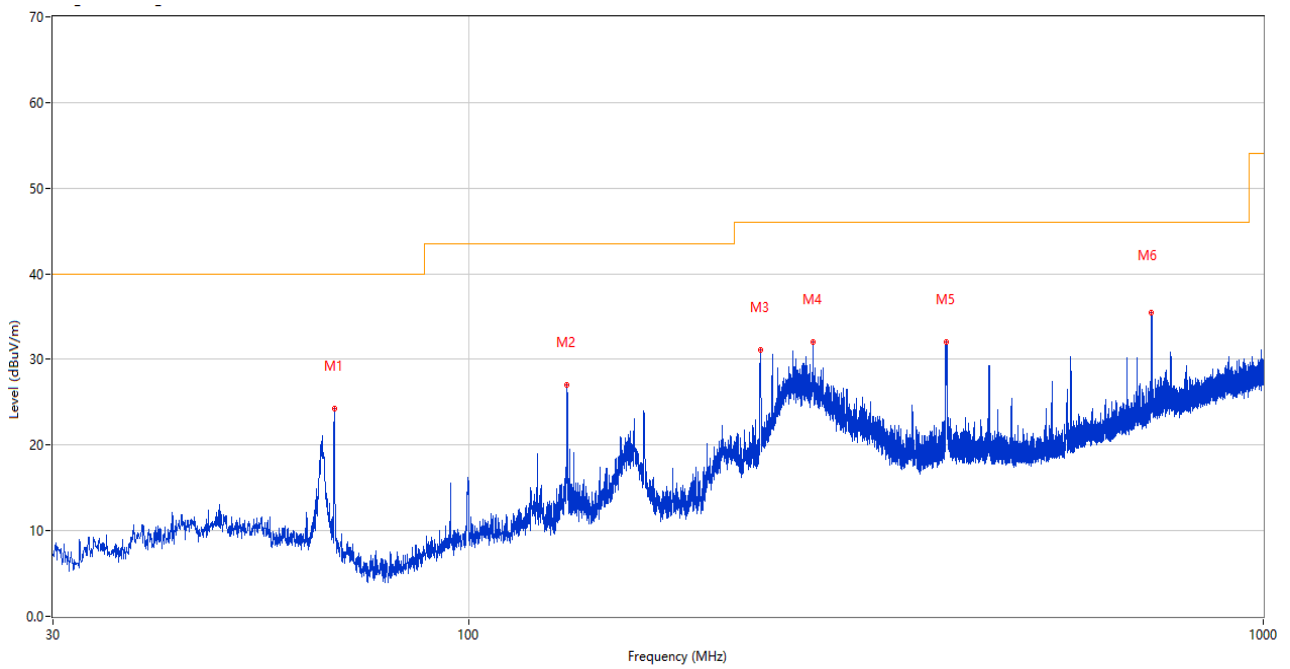
A.1.5 Test Antenna Vertical, 30 MHz – 1 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	67.830	26.52	-28.45	40.0	13.48	Peak	246.00	100	Vertical	Pass
2	133.257	29.39	-30.00	43.5	14.11	Peak	98.00	100	Vertical	Pass
3	233.264	30.25	-25.44	46.0	15.75	Peak	321.00	200	Vertical	Pass
4	398.649	36.90	-21.00	46.0	9.10	Peak	186.00	100	Vertical	Pass
5	452.193	34.62	-19.81	46.0	11.38	Peak	160.00	100	Vertical	Pass
6	572.812	36.59	-16.98	46.0	9.41	Peak	165.00	100	Vertical	Pass

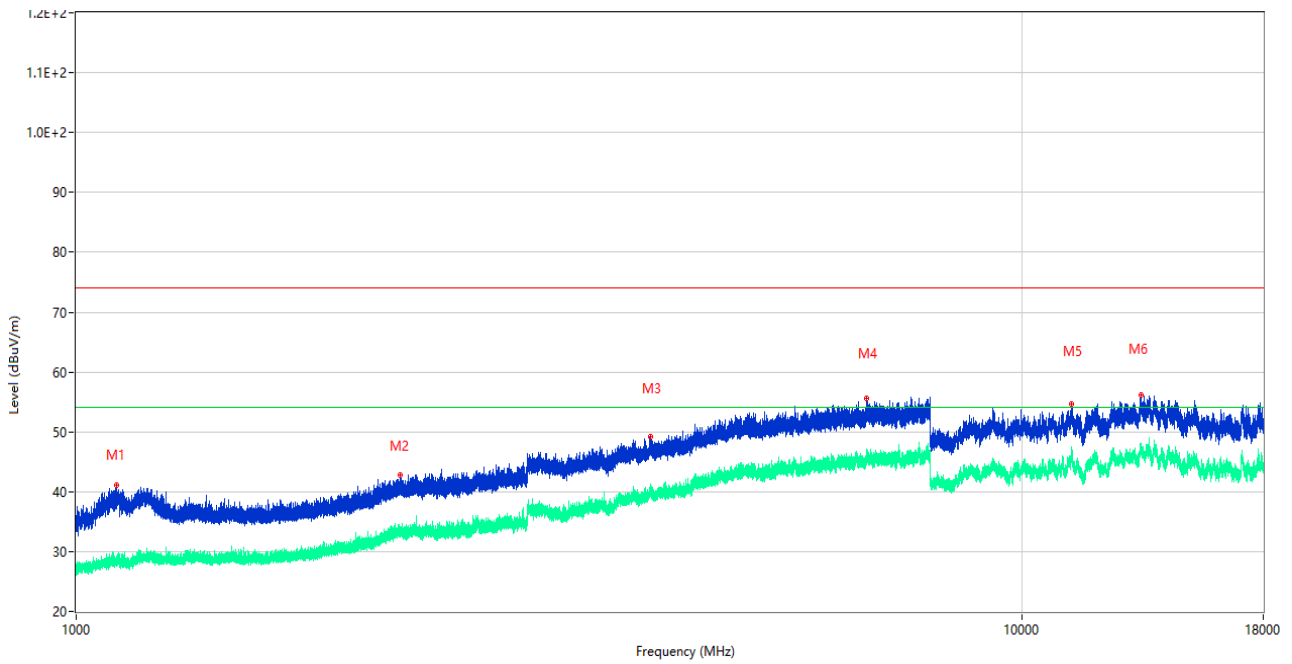


A.1.6 Test Antenna Horizontal, 30 MHz – 1 GHz



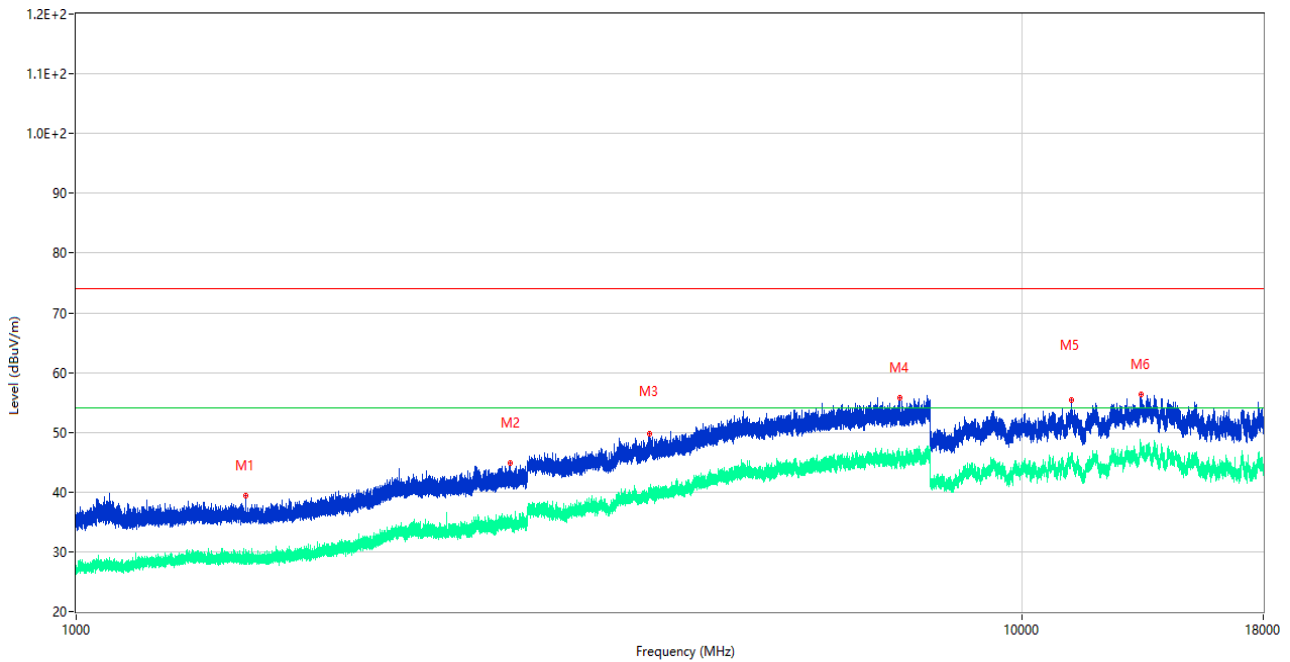
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	67.782	24.31	-28.43	40.0	15.69	Peak	182.00	200	Horizontal	Pass
2	133.111	27.05	-29.98	43.5	16.45	Peak	263.00	100	Horizontal	Pass
3	233.264	31.07	-25.44	46.0	14.93	Peak	94.00	100	Horizontal	Pass
4	271.190	32.03	-24.40	46.0	13.97	Peak	228.00	100	Horizontal	Pass
5	398.649	32.02	-21.00	46.0	13.98	Peak	301.00	100	Horizontal	Pass
6	723.841	35.43	-13.46	46.0	10.57	Peak	235.00	100	Horizontal	Pass

A.1.7 Test Antenna Vertical, 1 GHz – 18 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1104.600	41.10	-17.84	74.0	32.90	Peak	36.00	100	Vertical	Pass
1**	1104.600	27.90	-17.84	54.0	26.10	AV	36.00	100	Vertical	Pass
2	2203.600	42.81	-12.17	74.0	31.19	Peak	189.00	100	Vertical	Pass
2**	2203.600	33.83	-12.17	54.0	20.17	AV	189.00	100	Vertical	Pass
3	4049.500	49.21	-1.90	74.0	24.79	Peak	275.00	100	Vertical	Pass
3**	4049.500	40.44	-1.90	54.0	13.56	AV	275.00	100	Vertical	Pass
4	6853.250	55.52	1.90	74.0	18.48	Peak	137.00	100	Vertical	Pass
4**	6853.250	45.93	1.90	54.0	8.07	AV	137.00	100	Vertical	Pass
5	11286.500	54.67	2.23	74.0	19.33	Peak	342.00	100	Vertical	Pass
5**	11286.500	45.94	2.23	54.0	8.06	AV	342.00	100	Vertical	Pass
6	13359.000	56.21	5.17	74.0	17.79	Peak	0.00	100	Vertical	Pass
6**	13359.000	46.53	5.17	54.0	7.47	AV	0.00	100	Vertical	Pass

A.1.8 Test Antenna Horizontal, 1 GHz – 18 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1510.200	39.49	-16.81	74.0	34.51	Peak	140.00	100	Horizontal	Pass
1**	1510.200	28.89	-16.81	54.0	25.11	AV	140.00	100	Horizontal	Pass
2	2874.700	44.84	-9.09	74.0	29.16	Peak	308.00	100	Horizontal	Pass
2**	2874.700	35.98	-9.09	54.0	18.02	AV	308.00	100	Horizontal	Pass
3	4044.000	49.67	-2.38	74.0	24.33	Peak	144.00	100	Horizontal	Pass
3**	4044.000	40.20	-2.38	54.0	13.80	AV	144.00	100	Horizontal	Pass
4	7427.000	55.85	2.66	74.0	18.15	Peak	283.00	100	Horizontal	Pass
4**	7427.000	45.15	2.66	54.0	8.85	AV	283.00	100	Horizontal	Pass
5	11287.000	55.34	2.24	74.0	18.66	Peak	144.00	100	Horizontal	Pass
5**	11287.000	44.93	2.24	54.0	9.07	AV	144.00	100	Horizontal	Pass
6	13369.000	56.40	5.11	74.0	17.60	Peak	144.00	100	Horizontal	Pass
6**	13369.000	47.02	5.11	54.0	6.98	AV	144.00	100	Horizontal	Pass

## A.2 Conducted Emission

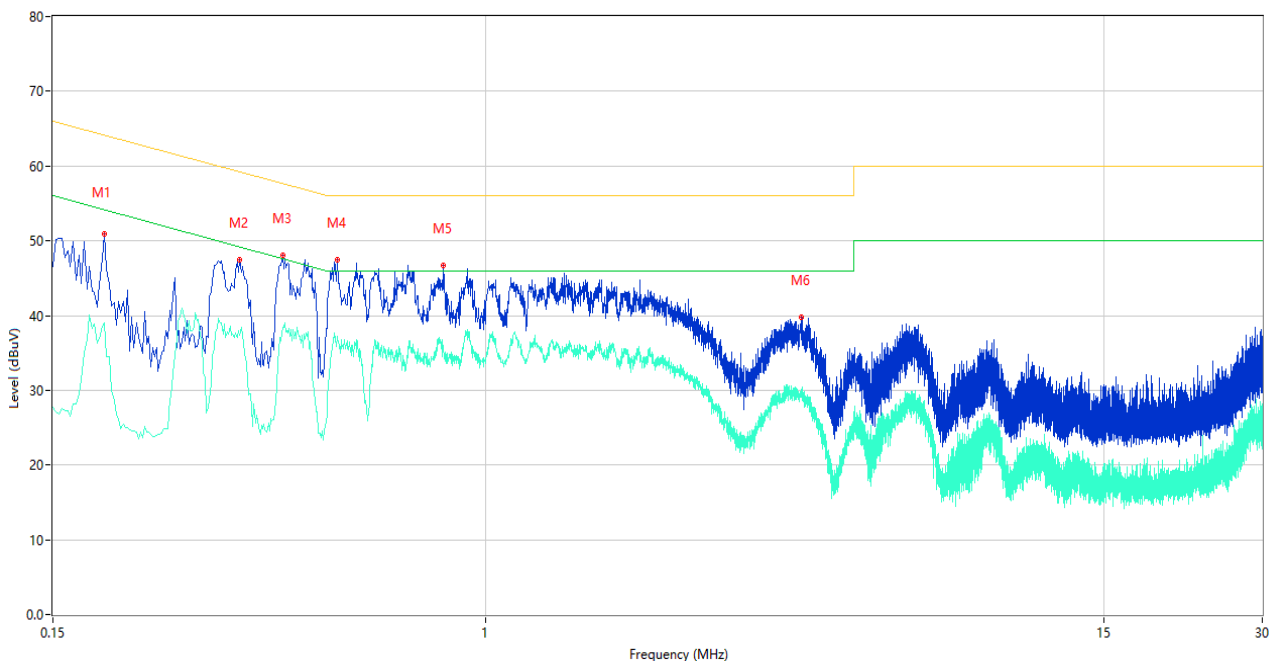
Note1: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz ) shown here.

Note 2: All the configurations were pre tested, only the worst configuration has been reported in this report.

### Test Data and Plots

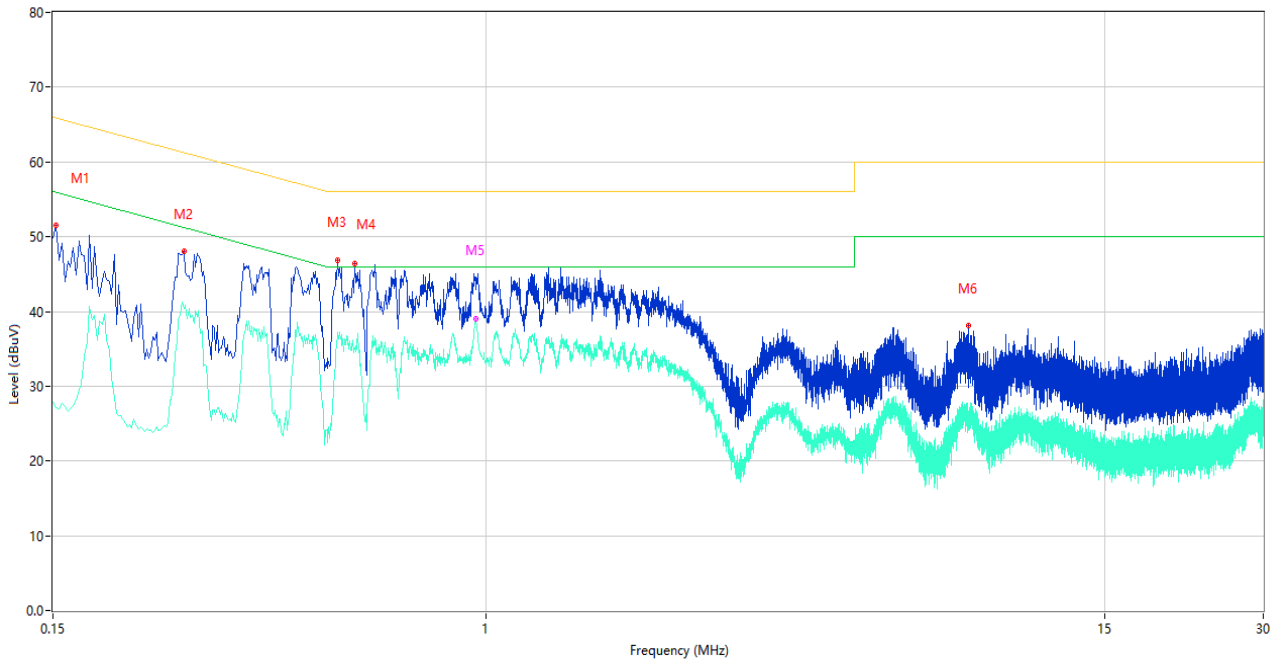
#### The GSM 850 MHz RX Test Mode

##### A.2.1 L Phase



No.	Frequency (MHz)	Results (dBUV)	Factor (dB)	Limit (dBUV)	Margin (dB)	Detector	Line	Verdict
1	0.188	50.93	10.12	64.12	13.19	Peak	L	Pass
1**	0.188	39.08	10.12	54.12	15.04	AV	L	Pass
2	0.340	47.39	9.97	59.20	11.81	Peak	L	Pass
2**	0.340	37.40	9.97	49.20	11.80	AV	L	Pass
3	0.410	48.02	10.60	57.65	9.63	Peak	L	Pass
3**	0.410	38.37	10.60	47.65	9.28	AV	L	Pass
4	0.522	47.41	10.34	56.00	8.59	Peak	L	Pass
4**	0.522	37.24	10.34	46.00	8.76	AV	L	Pass
5	0.830	46.64	10.20	56.00	9.36	Peak	L	Pass
5**	0.830	36.03	10.20	46.00	9.97	AV	L	Pass
6	3.976	39.72	10.26	56.00	16.28	Peak	L	Pass
6**	3.976	29.57	10.26	46.00	16.43	AV	L	Pass

A.2.2 N Phase

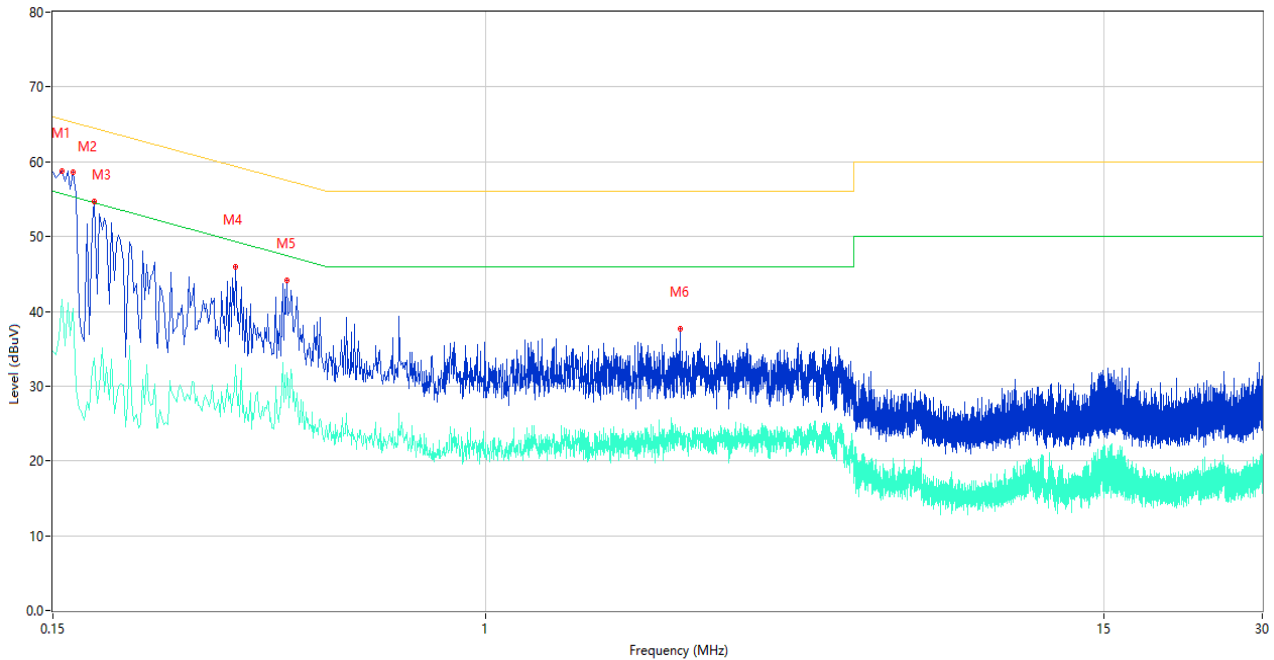


No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.152	51.54	10.19	65.89	14.35	Peak	N	Pass
1**	0.152	27.12	10.19	55.89	28.77	AV	N	Pass
2	0.266	48.07	10.07	61.24	13.17	Peak	N	Pass
2**	0.266	40.38	10.07	51.24	10.86	AV	N	Pass
3	0.522	46.91	10.34	56.00	9.09	Peak	N	Pass
3**	0.522	37.25	10.34	46.00	8.75	AV	N	Pass
4	0.562	46.46	10.46	56.00	9.54	Peak	N	Pass
4**	0.562	35.17	10.46	46.00	10.83	AV	N	Pass
5	0.954	44.60	10.81	56.00	11.40	Peak	N	Pass
5**	0.954	39.02	10.81	46.00	6.98	AV	N	Pass
6	8.258	38.06	10.07	60.00	21.94	Peak	N	Pass
6**	8.258	24.68	10.07	50.00	25.32	AV	N	Pass

Test Data and Plots

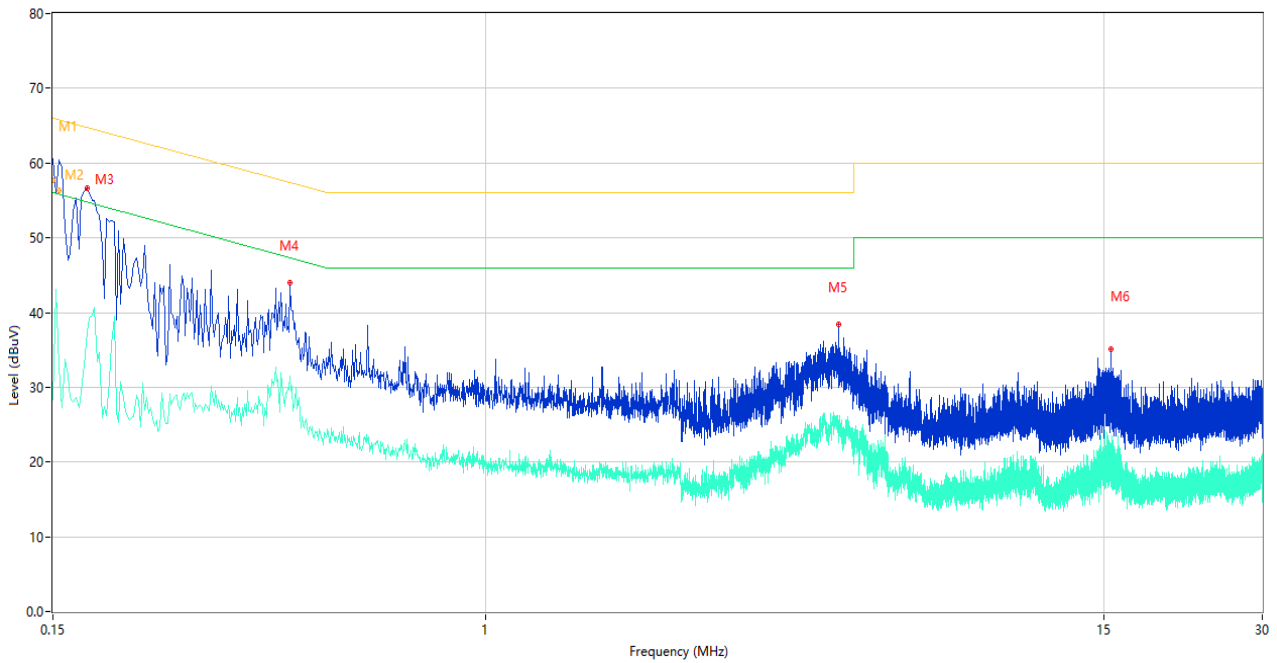
The USB Test Mode

A.2.3 L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.156	58.71	10.18	65.67	6.96	Peak	L	Pass
1**	0.156	41.65	10.18	55.67	14.02	AV	L	Pass
2	0.164	58.61	10.16	65.26	6.65	Peak	L	Pass
2**	0.164	40.43	10.16	55.26	14.83	AV	L	Pass
3	0.180	54.67	10.13	64.49	9.82	Peak	L	Pass
3**	0.180	33.71	10.13	54.49	20.78	AV	L	Pass
4	0.334	45.92	9.98	59.35	13.43	Peak	L	Pass
4**	0.334	32.90	9.98	49.35	16.45	AV	L	Pass
5	0.418	44.07	10.59	57.49	13.42	Peak	L	Pass
5**	0.418	31.73	10.59	47.49	15.76	AV	L	Pass
6	2.340	37.68	10.32	56.00	18.32	Peak	L	Pass
6**	2.340	24.58	10.32	46.00	21.42	AV	L	Pass

A.2.4 N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.150	62.06	10.19	66.00	3.94	Peak	N	Pass
1*	0.150	57.77	10.19	66.00	8.23	QP	N	Pass
1**	0.150	28.31	10.19	56.00	27.69	AV	N	Pass
2	0.154	61.32	10.18	65.78	4.46	Peak	N	Pass
2*	0.154	56.42	10.18	65.78	9.36	QP	N	Pass
2**	0.154	32.77	10.18	55.78	23.01	AV	N	Pass
3	0.174	56.68	10.15	64.77	8.09	Peak	N	Pass
3**	0.174	37.42	10.15	54.77	17.35	AV	N	Pass
4	0.424	44.01	10.58	57.37	13.36	Peak	N	Pass
4**	0.424	31.42	10.58	47.37	15.95	AV	N	Pass
5	4.684	38.45	10.27	56.00	17.55	Peak	N	Pass
5**	4.684	24.28	10.27	46.00	21.72	AV	N	Pass
6	15.484	35.07	10.11	60.00	24.93	Peak	N	Pass
6**	15.484	21.87	10.11	50.00	28.13	AV	N	Pass

## **ANNEX B TEST SETUP PHOTOS**

Please refer the document “BL-SZ2320162-AE-1.PDF”.

## **ANNEX C EUT EXTERNAL PHOTOS**

Please refer the document “BL-SZ2320162-AW.PDF”.

## **ANNEX D EUT INTERNAL PHOTOS**

Please refer the document “BL-SZ2320162-AI.PDF”.



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--END OF REPORT--