FCC PART 15B
TEST REPORT

No. I21Z61528-EMC01

for

TCL Communication Ltd.

GSM / UMTS / LTE Mobile phone

Model Name: 6159A

FCC ID: 2ACCJH144

with

Hardware Version: PIO

Software Version: v1.0.CL54

Issued Date: 2021-08-26

Note:

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Test Laboratory:

CTTL-Telecommunication Technology Labs, CAICT

No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China 100191.

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I21Z61528-EMC01	Rev.0	1st edition	2021-08-26

Note: the latest revision of the test report supersedes all previous version.

CONTENTS

1. Test Laboratory

1.1. Testing Location

CTTL (huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China 100191

1.2. Testing Environment

Normal Temperature: 15-35° C

Relative Humidity: 20-75%

1.3. Project data

Testing Start Date: 2021-08-06

Testing End Date: 2021-08-20

1.4. Signature

Wang Xue

(Prepared this test report)

Zhang Ying

(Reviewed this test report)

Zhang Xia

(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name:	TCL Communication Ltd.
Address:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Contact Person	Gong Zhizhou
Contact Email	zhizhou.gong@tcl.com
Telephone:	0086-755-36611722
Fax:	0086-755-36612000-81722

2.2. Manufacturer Information

Company Name:	TCL Communication Ltd.
Address:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Contact Person	Gong Zhizhou
Contact Email	zhizhou.gong@tcl.com
Telephone:	0086-755-36611722
Fax:	0086-755-36612000-81722

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	GSM / UMTS / LTE Mobile phone
Model Name	6159A
FCC ID	2ACCJH144

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of CTTL, Telecommunication Technology Labs, CAICT.

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version
EUT1	356507480019987/01	PIO	v1.0.CL54

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE used during the test

AE ID*	Description	SN	Remarks
AE1	Battery	/	
AE2	Charger1	/	
AE3	Charger2	/	
AE4	Date Cable1	/	
AE5	Date Cable2	/	
AE6	Date Cable3	/	
AE7	Headset1	/	
AE8	Headset2	/	

AE1

Model	CAC3860032CA
Manufacturer	Zhongshan Tianmao battery Co.,LTD
Capacity	/
Nominal Voltage	/

AE2

Model	CBA0059AGNC5
Manufacturer	HUIZHOU PUAN ELECTRONICS CO.,LTD
Length of cable	/

AE3

Model	CBA0064AGNC5
Manufacturer	HUIZHOU PUAN ELECTRONICS CO.,LTD
Length of cable	/

AE4

Model	CDA0000123C8
Manufacturer	HUIZHOU PUAN ELECTRONICS CO.,LTD
Length of cable	/

AE5

Model	CDA0000123C1
Manufacturer	Huizhou JUWEI Electronics Co., Ltd.
Length of cable	/

AE6

Model	CDA0000128C1
Manufacturer	Huizhou JUWEI Electronics Co., Ltd.
Length of cable	/

AE7

Model	CCB0046A15C1
Manufacturer	HUIZHOU JUWEI ELECTRONICS CO.,LTD
Length of cable	/

AE8

Model	CCB0049A12C1
Manufacturer	HUIZHOU JUWEI ELECTRONICS CO.,LTD
Length of cable	/

*AE ID: is used to identify the test sample in the lab internally.
Note: The USB cables are shielded.

3.4. EUT set-ups

EUT set-up No.	Combination of EUT and AE	Remarks
Set.1	EUT1 + AE1 + AE2 + AE4/5	REAR Camera+GSM 850 idle
Set.2	EUT1 + AE1 + AE3 + AE4/5	MP4+WCDMA 850 idle
Set.3	EUT1 + AE1 + AE4/5/6 + AE7 + PC	USB+Front Camera+FM+LTE Band5 idle
Set.4	EUT1 + AE1 + AE4/5/6 + AE8 + PC	USB+Front Camera+FM+LTE Band5 idle

Note:

The device supports GSM/GPRS/EGPRS 850/900/1800/1900, UMTS FDD Band 1/2/4/5/8; LTE FDD Band 1/2/3/4/5/7/8/12/13/17/28/66. It has WLAN (802.11b/g/n, 802.11n supports 20MHz bandwidth), Bluetooth (EDR, BLE) and GNSS (GPS&GLONASS&BDS& GALILEO) functions. The device contains receivers which tune and operate between 30MHz-960MHz in the following bands: GSM850, WCDMA850, LTE Band 5, LTE Band 12, LTE Band 13, LTE Band 17 and LTE Band 28. All licensed band receivers that tune in the range of 30MHz-960MHz are investigated. Only the worst case emissions are reported.

4. Reference Documents

4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part 15, Subpart B	Radio frequency devices - Unintentional Radiators	2019
ANSI C63.4	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	2014

Note: The test methods have no deviation with standards.

5. LABORATORY ENVIRONMENT

Semi-anechoic chamber SAC-1 (10 meters×6.7meters×6.1meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 ˚C, Max. = 35 ˚C
Relative humidity	Min. = 15 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz, >60dB; 1MHz - 1000MHz, >90dB.
Electrical insulation	> 2 MΩ
Ground system resistance	< 4 Ω
Normalised site attenuation (NSA)	< ±4 dB, 3m distance
Site voltage standing-wave ratio (S_{VSWR})	Between 0 and 6 dB, from 1GHz to 6GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

Shielded room did not exceed following limits along the EMC testing:

Temperature	Min. = 15 ˚C, Max. = 35 ˚C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz, >60dB; 1MHz－1000MHz, >90dB.
Electrical insulation	> 2 MΩ
Ground system resistance	< 4 Ω

6. SUMMARY OF TEST RESULTS

Abbreviations used in this clause:		
Verdict Column	P	Pass
	NA	Not applicable
	F	Fail

Items	Test Name	Clause in FCC rules	Section in this report	Verdict	Test Location
1	Radiated Emission	15.109(a)	B.1	P	**CTTL(huayuan North Road)**
2	Conducted Emission	15.107(a)	B.2	P	**CTTL(huayuan North Road)**

7. Test Equipments Utilized

NO.	Description	TYPE	SERIES NUMBER	MANUFACTURE	CAL DUE DATE	CALIBRATION INTERVAL
1	Test Receiver	ESCI	100766	R&S	2022-03-09	1 Year
2	LISN	ENV216	101459	R&S	2022-03-22	1 year
3	Test Receiver	ESU 26	100376	R&S	2021-09-04	1 year
4	EMI Antenna	VULB 9163	9163-482	Schwarzbeck	2021-11-04	1 year
5	EMI Antenna	3117	00139065	ETS-Lindgren	2021-09-22	1 year

ANNEX A: MEASUREMENT RESULTS

A.1 Radiated Emission

Reference

FCC: CFR Part 15.109(a).

A.1.1 Method of measurement

The field strength of radiated emissions from the unintentional radiator (USB mode of MS and charging mode of MS) at distances of 3 meters is tested. Tested in accordance with the procedures of ANSI C63.4 – 2014, section 8.3.

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3/10 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

A.1.2 EUT Operating Mode

The MS is operating in the USB mode and charging mode. During the test MS is connected to a PC via a USB cable in the case of USB mode and is connected to a charger in the case of charging mode.

The EUT was tested while operating in licensed band Rx mode. All licensed band receivers that tune in the range of 30MHz-960MHz, as listed in section 3.4, are investigated. Only the worst case emissions are reported.

All equipment is placed on the test table top and arranged in a typical configuration in accordance with ANSI C63.4-2014 and manipulated to obtain worst case emissions.

The model of the PC is M4000E-17, and the serial number of the PC is M706GWXD. The software is used to let the PC keep on copying data to MS, reading and erasing the data after copy action was finished.

Note：I/O information：Printer – USB, Mouse – PS/2, Keyboard – USB.

A.1.3 Measurement Limit

Frequency range (MHz)	Field strength limit (μV/m)		
	Quasi-peak	Average	Peak
30-88	100		
88-216	150		
216-960	200		
960-1000	500		
>1000		500	5000

Note: the above limit is for 3 meters test distance. 10 meters' limit is got by converting.

A.1.4 Test Condition

Frequency range (MHz)	RBW/VBW	Sweep Time (s)	Detector
30-1000	120kHz (IF Bandwidth)	5	Peak/Quasi-peak
Above 1000	1MHz/1MHz	15	Peak, Average

A.1.5 Measurement Results

A "reference path loss" is established and the A_{Rpl} is the attenuation of “reference path loss”. It includes the antenna factor of receive antenna and the path loss.

The measurement results are obtained as described below:

Result = $P_{Mea} + A_{Rpl} = P_{Mea} + G_A + G_{PL}$

Where

G_A: Antenna factor of receive antenna

G_{PL}: Path Loss

P_{Mea}: Measurement result on receiver.

Measurement uncertainty (worst case): U = 4.74 dB, k=2.

Measurement results for Set.1:

Charging Mode/Average detector

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBµV)	Limit (dBµV/m)	Margin (dB)	Antenna Pol. (H/V)
17428.500	39.47	-23.1	41.3	21.31	54.0	14.5	V
17280.000	39.44	-22.8	41.4	20.80	54.0	14.6	V
17265.000	39.32	-22.8	41.4	20.69	54.0	14.7	V
17279.500	39.32	-22.8	41.4	20.68	54.0	14.7	V
17281.500	39.30	-22.8	41.4	20.66	54.0	14.7	V
17431.000	39.30	-23.1	41.3	21.15	54.0	14.7	V

Charging Mode/Peak detector

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBµV)	Limit (dBµV/m)	Margin (dB)	Antenna Pol. (H/V)
16654.000	52.2	-23.3	41.5	33.95	74.0	21.8	H
17276.000	52.1	-22.8	41.4	33.44	74.0	21.9	H
17222.000	51.9	-22.9	41.5	33.29	74.0	22.1	H
17166.500	51.8	-23.0	41.5	33.21	74.0	22.2	V
17076.500	51.8	-23.0	41.6	33.19	74.0	22.2	H
17430.000	51.7	-23.1	41.3	33.53	74.0	22.3	H

Measurement results for Set.2:

Charging Mode/Average detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17293.500	39.78	-22.8	41.4	21.16	54.0	14.2	V
17420.000	39.78	-23.1	41.3	21.59	54.0	14.2	V
17392.000	39.73	-23.0	41.3	21.45	54.0	14.3	V
17392.500	39.71	-23.0	41.3	21.43	54.0	14.3	V
17397.000	39.69	-23.0	41.3	21.42	54.0	14.3	V
17138.500	39.67	-23.0	41.6	21.12	54.0	14.3	V

Charging Mode/Peak detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17731.000	52.44	-22.3	41.2	33.45	74.0	21.6	V
17979.000	52.36	-22.8	41.3	33.84	74.0	21.6	H
17432.000	52.29	-23.1	41.3	34.14	74.0	21.7	H
16897.000	52.14	-23.0	41.6	33.51	74.0	21.9	V
17917.000	52.12	-22.7	41.3	33.49	74.0	21.9	H
17417.500	51.98	-23.1	41.3	33.78	74.0	22.0	V

Measurement results for Set. 3:

USB Mode/Average detector

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBµV)	Limit (dBµV/m)	Margin (dB)	Antenna Pol. (H/V)
17393.500	40.08	-23.0	41.3	21.80	54.0	13.9	H
17080.500	40.03	-23.0	41.6	21.45	54.0	14.0	H
17264.500	40.03	-22.8	41.4	21.39	54.0	14.0	V
17425.500	40.02	-23.1	41.3	21.85	54.0	14.0	H
17170.500	40.02	-23.0	41.5	21.44	54.0	14.0	H
17283.500	40.01	-22.8	41.4	21.37	54.0	14.0	H

USB Mode/Peak detector

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBµV)	Limit (dBµV/m)	Margin (dB)	Antenna Pol. (H/V)
16836.000	52.9	-23.0	41.6	34.28	74.0	21.1	V
17048.500	52.8	-23.0	41.7	34.22	74.0	21.2	H
17920.000	52.7	-22.7	41.3	34.05	74.0	21.3	V
17356.500	52.7	-22.9	41.3	34.26	74.0	21.3	H
17001.500	52.6	-23.0	41.7	33.90	74.0	21.4	H
17040.500	52.5	-23.0	41.7	33.88	74.0	21.5	H

Measurement results for Set. 4:

USB Mode/Average detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17282.000	40.20	-22.8	41.4	21.55	54.0	13.8	H
17075.500	40.16	-23.0	41.6	21.57	54.0	13.8	V
17264.000	40.14	-22.8	41.4	21.51	54.0	13.9	H
17074.000	40.14	-23.0	41.6	21.55	54.0	13.9	V
17076.000	40.14	-23.0	41.6	21.55	54.0	13.9	H
17103.000	40.14	-23.0	41.6	21.58	54.0	13.9	H

USB Mode/Peak detector

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17095.500	52.8	-23.0	41.6	34.23	74.0	21.2	H
17755.000	52.7	-22.3	41.3	33.80	74.0	21.3	H
17461.000	52.7	-23.2	41.2	34.60	74.0	21.3	V
17378.000	52.6	-23.0	41.3	34.29	74.0	21.4	H
17018.500	52.6	-23.0	41.7	33.95	74.0	21.4	H
17047.000	52.6	-23.0	41.7	33.99	74.0	21.4	V

Measurement results for Set.1:

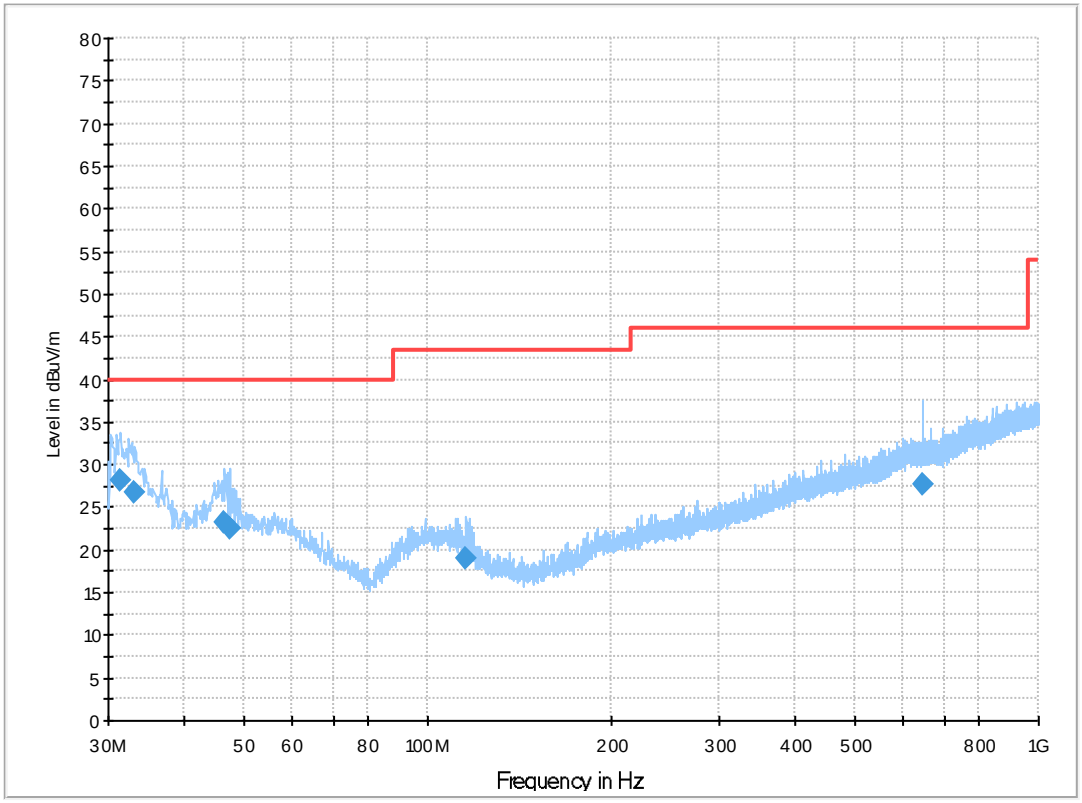

Fig A.1 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
31.455000	28.0	40.0	12.0	1000.0	120.000	100.0	V	180.0
33.201000	26.7	40.0	13.3	1000.0	120.000	100.0	V	195.0
46.587000	23.3	40.0	16.7	1000.0	120.000	100.0	V	105.0
47.460000	22.4	40.0	17.6	1000.0	120.000	100.0	V	45.0
115.748000	19.0	43.5	24.5	1000.0	120.000	125.0	H	210.0
648.084000	27.6	46.0	18.4	1000.0	120.000	100.0	V	0.0

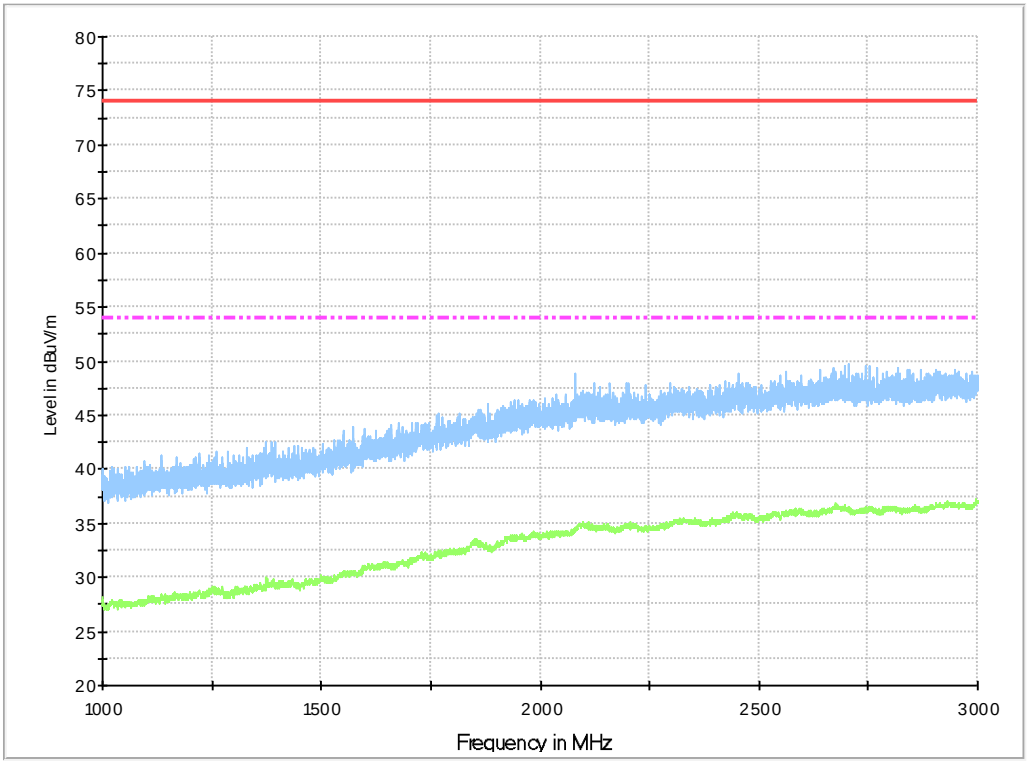

Fig A.2 Radiated Emission from 1GHz to 3GHz

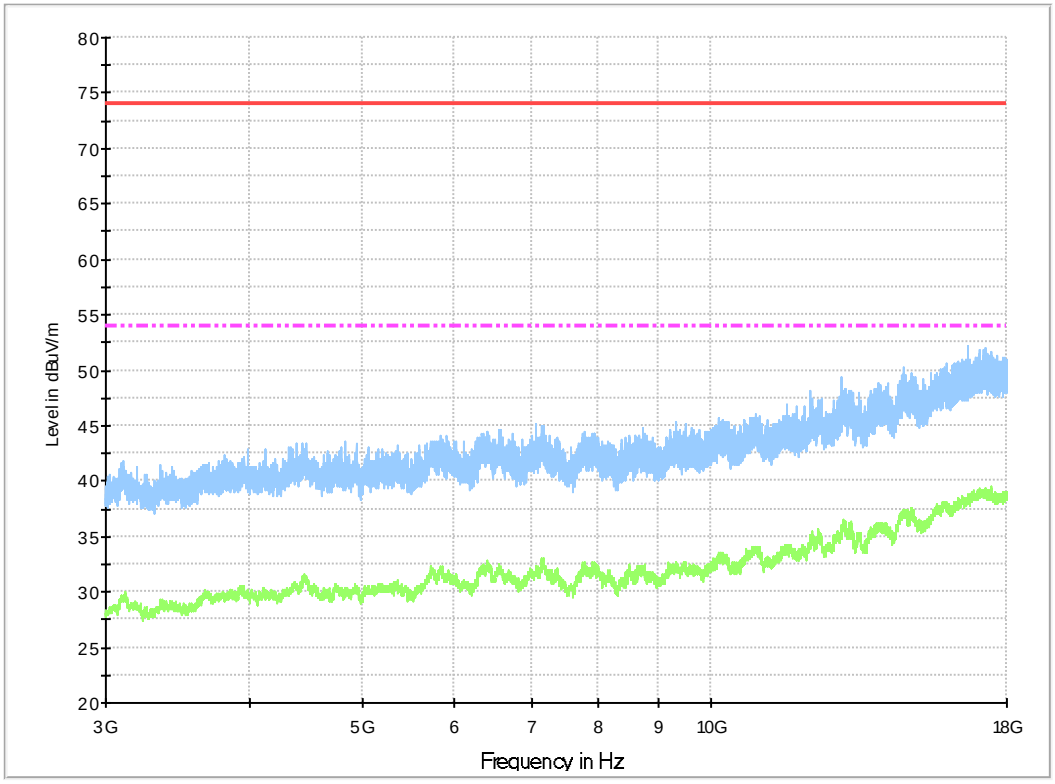

Fig A.3 Radiated Emission from 3GHz to 18GHz

Measurement results for Set. 2:

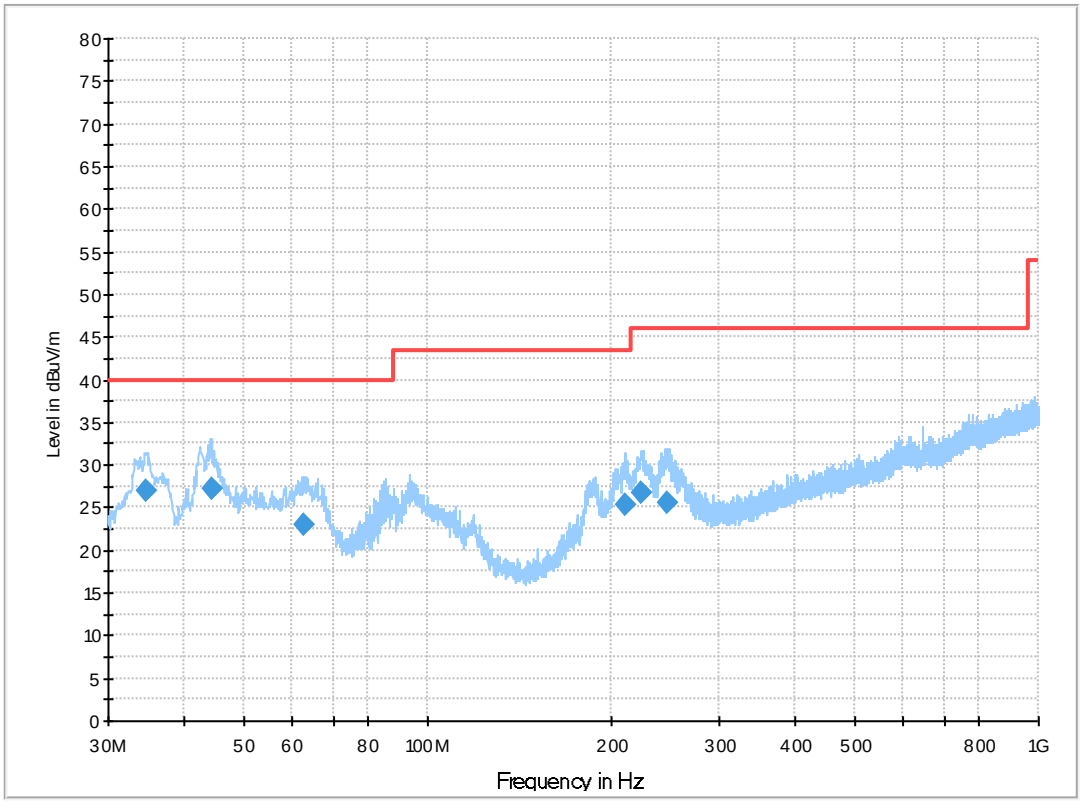

Fig A.4 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµv/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
34.559000	26.9	40.0	13.1	1000.0	120.000	125.0	V	135.0
44.259000	27.2	40.0	12.8	1000.0	120.000	100.0	V	120.0
62.786000	23.0	40.0	17.0	1000.0	120.000	100.0	V	270.0
211.002000	25.4	43.5	18.1	1000.0	120.000	125.0	H	90.0
224.097000	26.7	46.0	19.3	1000.0	120.000	125.0	H	90.0
246.310000	25.7	46.0	20.3	1000.0	120.000	100.0	H	105.0

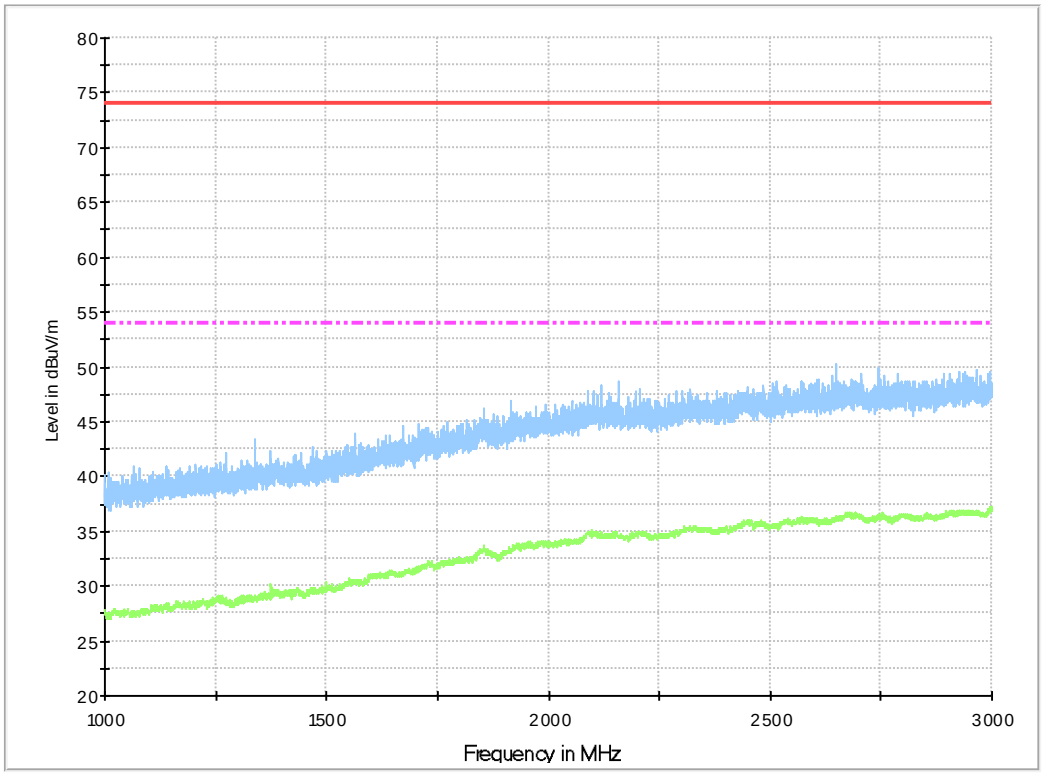

Fig A.5 Radiated Emission from 1GHz to 3GHz

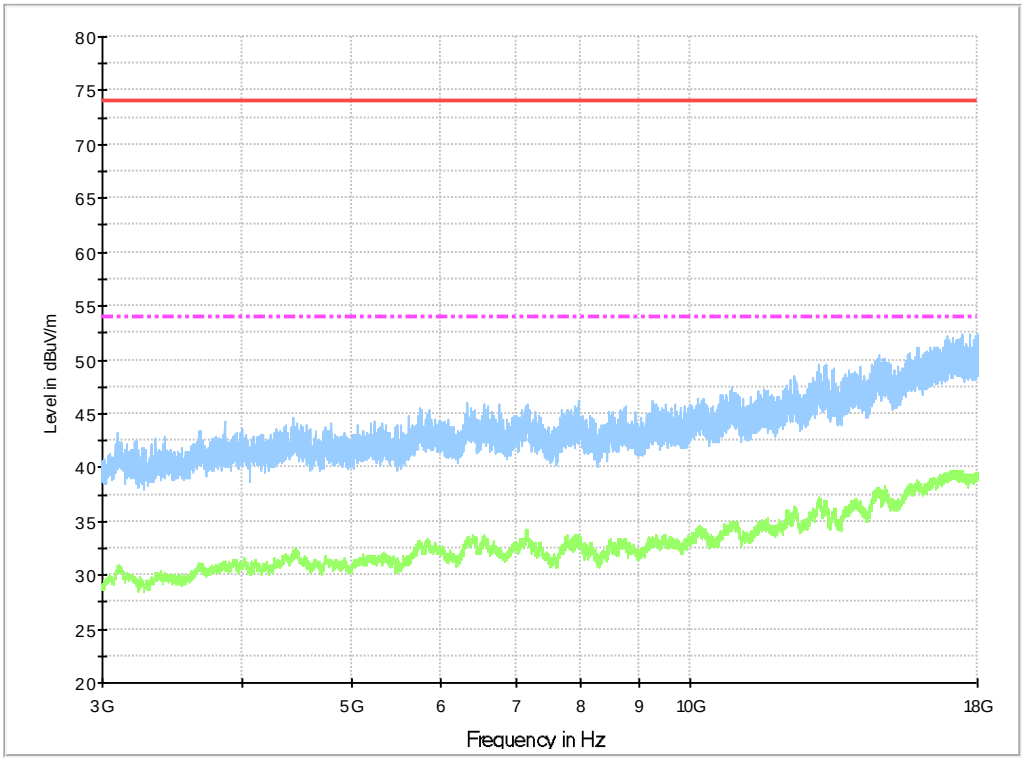

Fig A.6 Radiated Emission from 3GHz to 18GHz

Measurement results for Set.3:

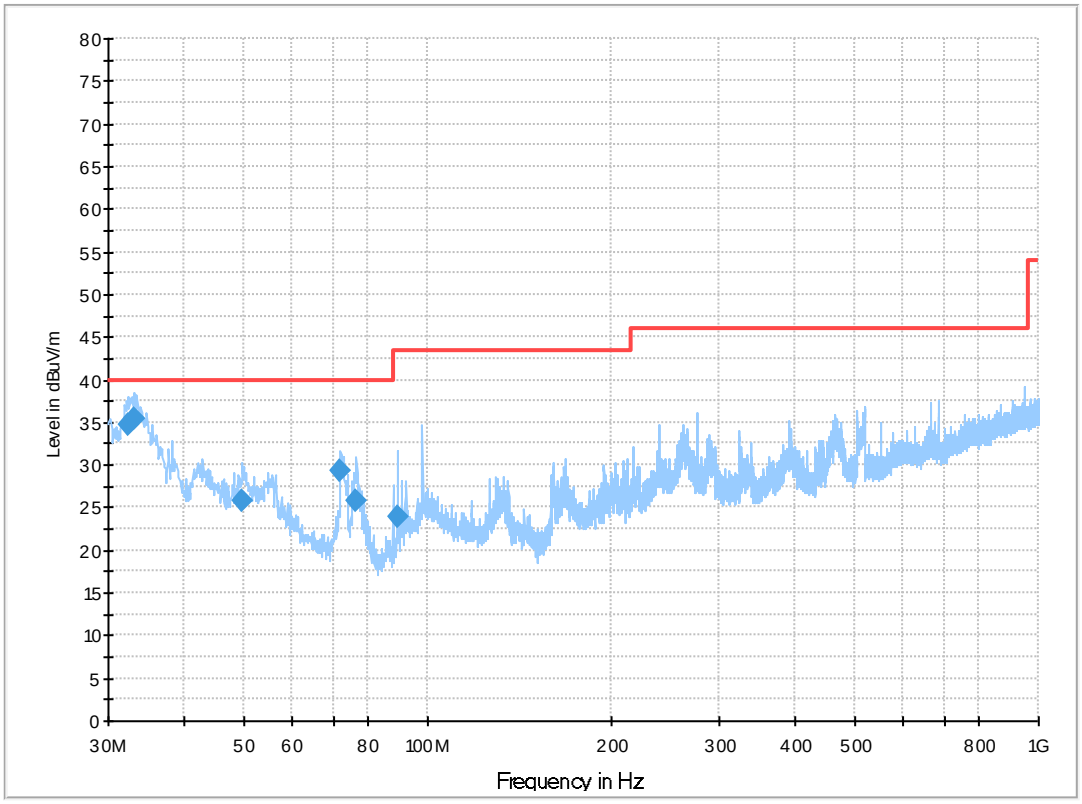

Fig A.7 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
32.328000	34.8	40.0	5.2	1000.0	120.000	100.0	V	225.0
33.201000	35.5	40.0	4.5	1000.0	120.000	100.0	V	300.0
49.691000	25.7	40.0	14.3	1000.0	120.000	125.0	V	270.0
72.001000	29.3	40.0	10.7	1000.0	120.000	100.0	V	-1.0
76.366000	25.9	40.0	14.2	1000.0	120.000	125.0	V	270.0
89.267000	23.9	43.5	19.6	1000.0	120.000	125.0	H	270.0

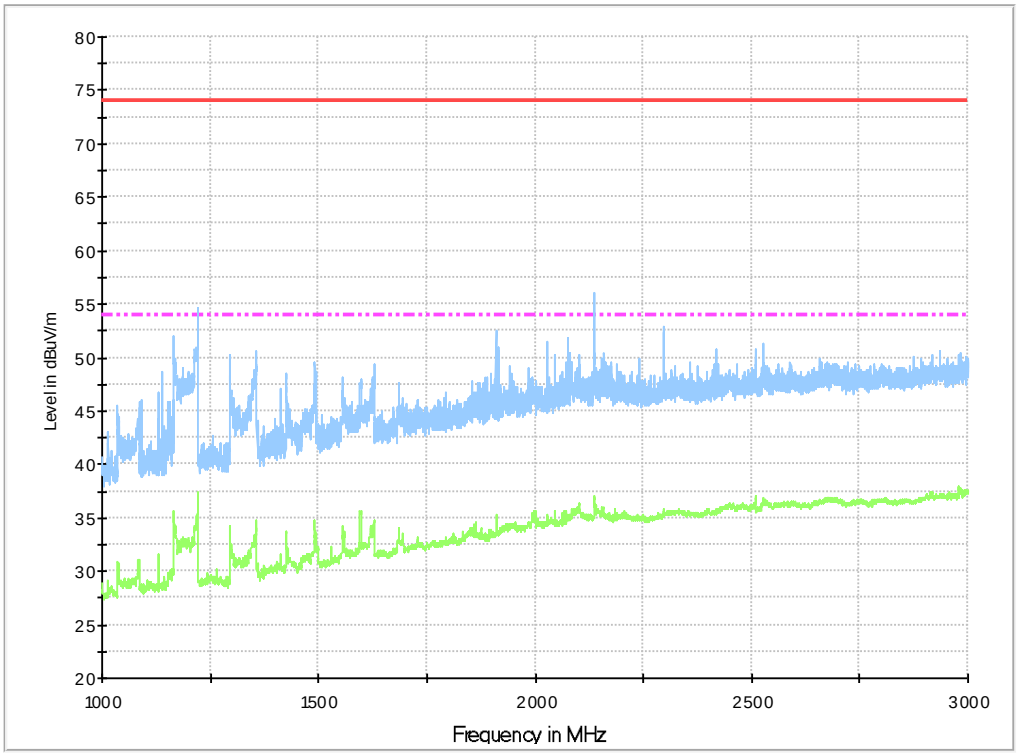

Fig A.8 Radiated Emission from 1GHz to 3GHz

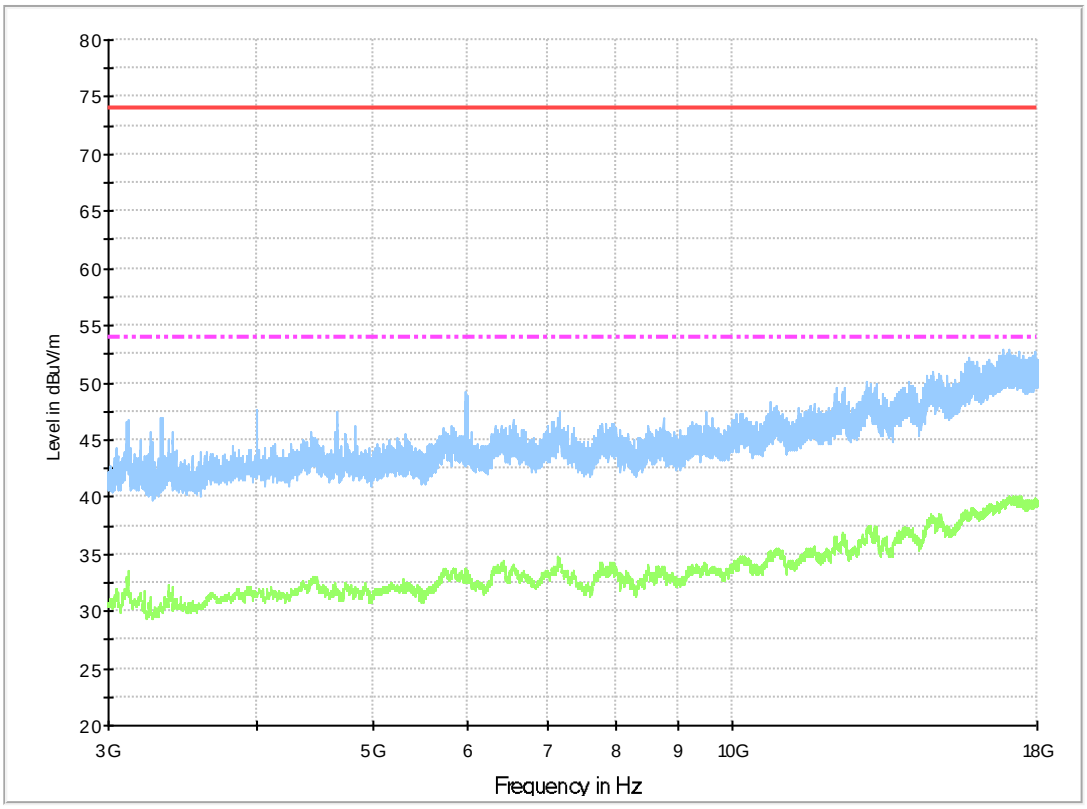

Fig A.9 Radiated Emission from 3GHz to 18GHz

Measurement results for Set.4:

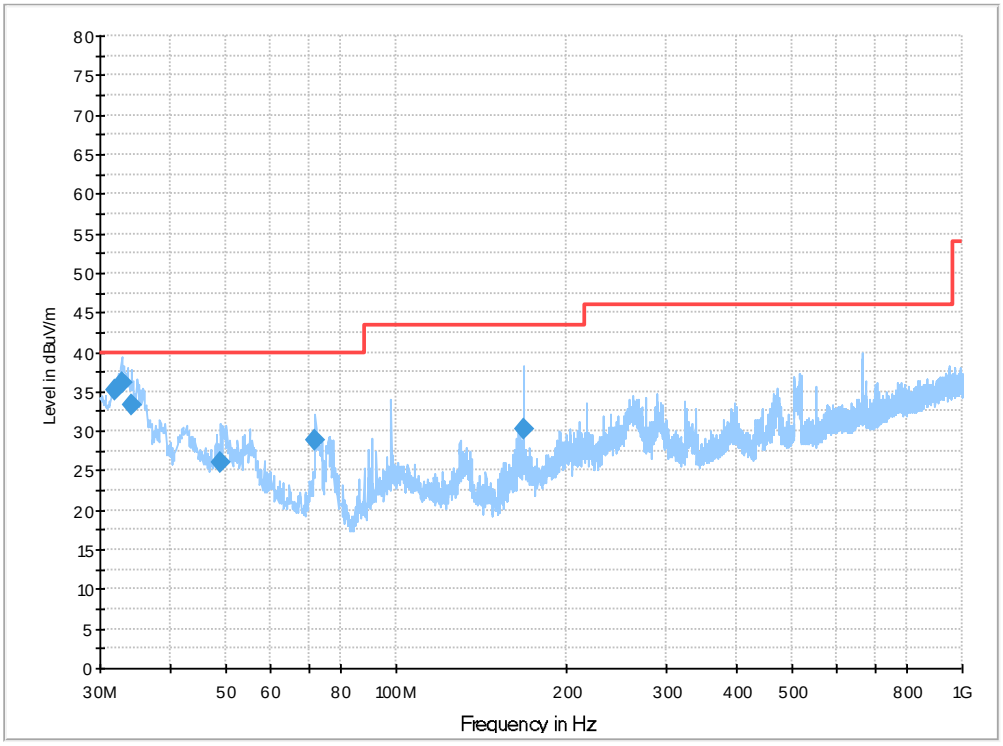

Fig A.10 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
31.940000	35.2	40.0	4.8	1000.0	120.000	100.0	V	225.0
32.716000	36.1	40.0	3.9	1000.0	120.000	100.0	V	225.0
34.074000	33.3	40.0	6.7	1000.0	120.000	100.0	V	270.0
49.012000	26.1	40.0	13.9	1000.0	120.000	100.0	V	74.0
72.001000	29.0	40.0	11.0	1000.0	120.000	100.0	V	-15.0
167.934000	30.2	43.5	13.3	1000.0	120.000	100.0	H	254.0

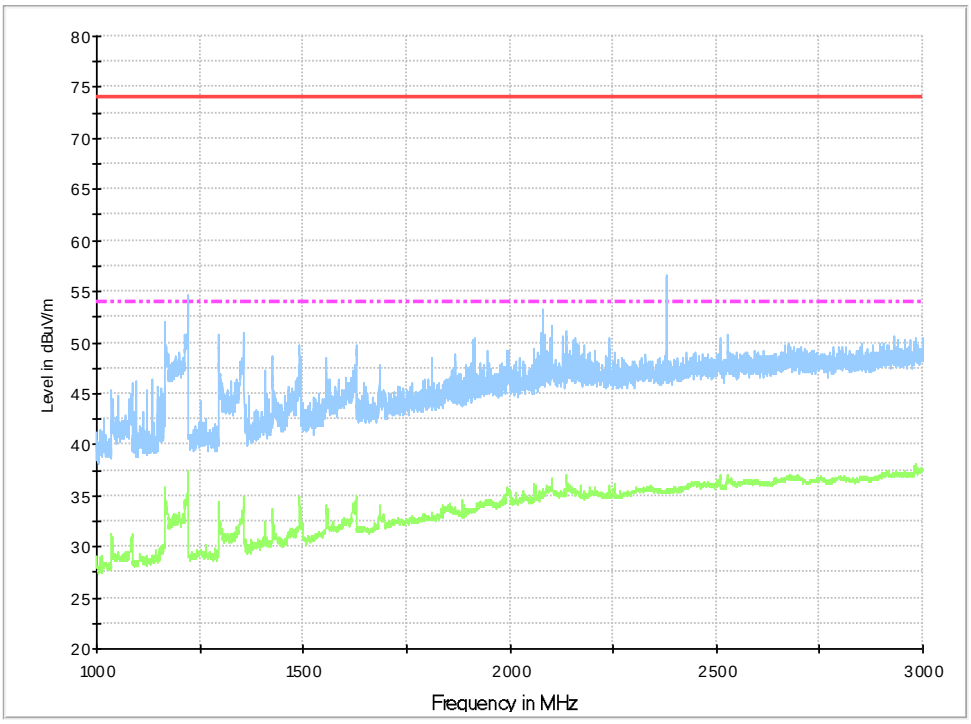

Fig A.11 Radiated Emission from 1GHz to 3GHz

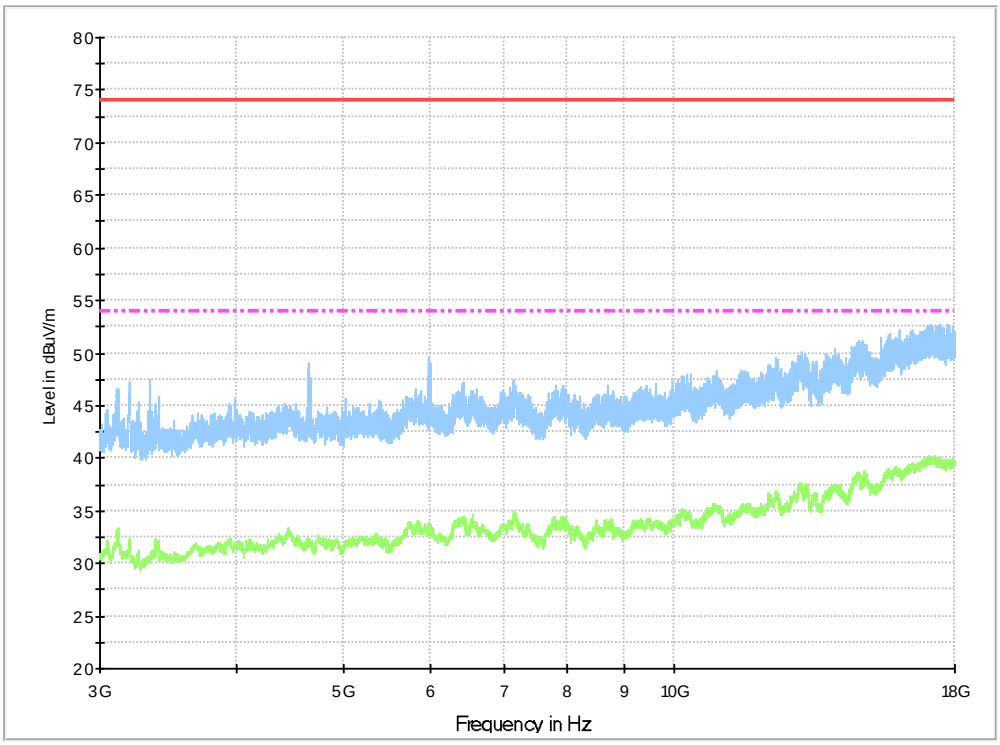

Fig A.12 Radiated Emission from 3GHz to 18GHz

A.2 Conducted Emission

Reference

FCC: CFR Part 15.107(a).

A.2.1 Method of measurement

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. Tested in accordance with the procedures of ANSI C63.4 – 2014, section 7.3.

A.2.2 EUT Operating Mode

The MS is operating in the USB mode and charging mode. During the test MS is connected to a PC via a USB cable in the case of USB mode and is connected to a charger in the case of charging mode. The model of the PC is DELL M4000E-17, and the serial number of the PC is M706GWXD. The software is used to let the PC keep on copying data to MS, reading and erasing the data after copy action was finished.

Note：I/O information：Printer – USB, Mouse – PS/2, Keyboard – USB.

A.2.3 Measurement Limit

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency		

A.2.4 Test Condition in charging mode

Voltage（V）	Frequency（Hz）
120	60

RBW/IF bandwidth	Sweep Time(s)
9kHz	1

A.2.5 Measurement Results

Measurement uncertainty: *U*= 3.1 dB, *k*=2.

Charging Mode, Set.1:

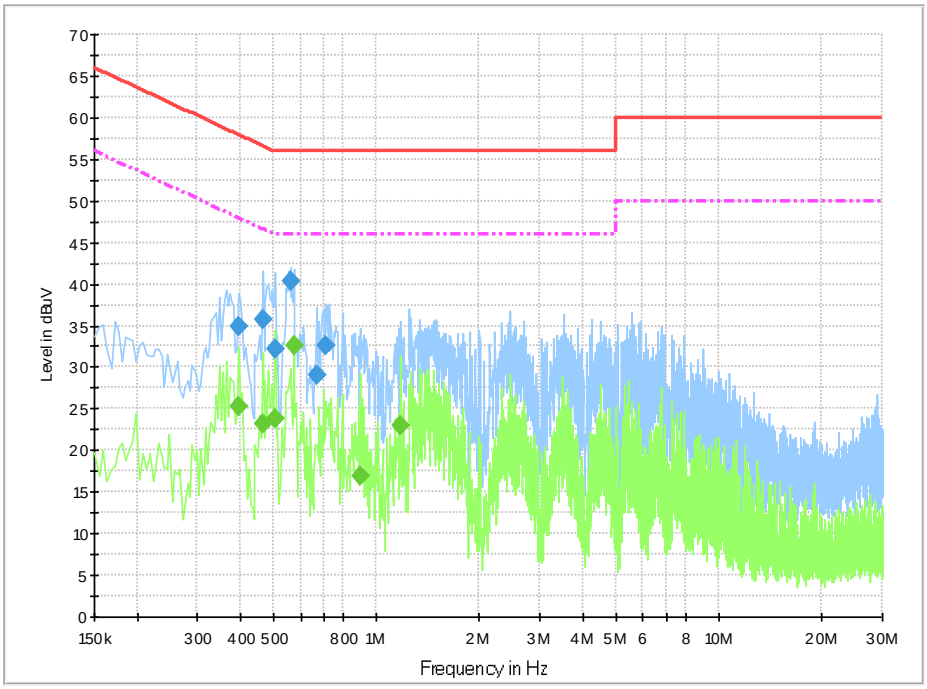

Fig A.13 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.397500	34.9	3000.0	9.000	On	L1	19.8	23.0	57.9	
0.465000	35.6	3000.0	9.000	On	L1	19.8	21.0	56.6	
0.505500	32.3	3000.0	9.000	On	N	19.8	23.7	56.0	
0.564000	40.4	3000.0	9.000	On	L1	19.8	15.6	56.0	
0.667500	29.1	3000.0	9.000	On	L1	19.7	26.9	56.0	
0.712500	32.6	3000.0	9.000	On	L1	19.7	23.4	56.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.397500	25.4	3000.0	9.000	On	L1	19.8	22.5	47.9	
0.465000	23.1	3000.0	9.000	On	N	19.8	23.5	46.6	
0.505500	23.9	3000.0	9.000	On	N	19.8	22.1	46.0	
0.573000	32.6	3000.0	9.000	On	L1	19.8	13.4	46.0	
0.897000	16.9	3000.0	9.000	On	L1	19.6	29.1	46.0	
1.180500	23.0	3000.0	9.000	On	L1	19.6	23.0	46.0	

Charging Mode, Set.2:

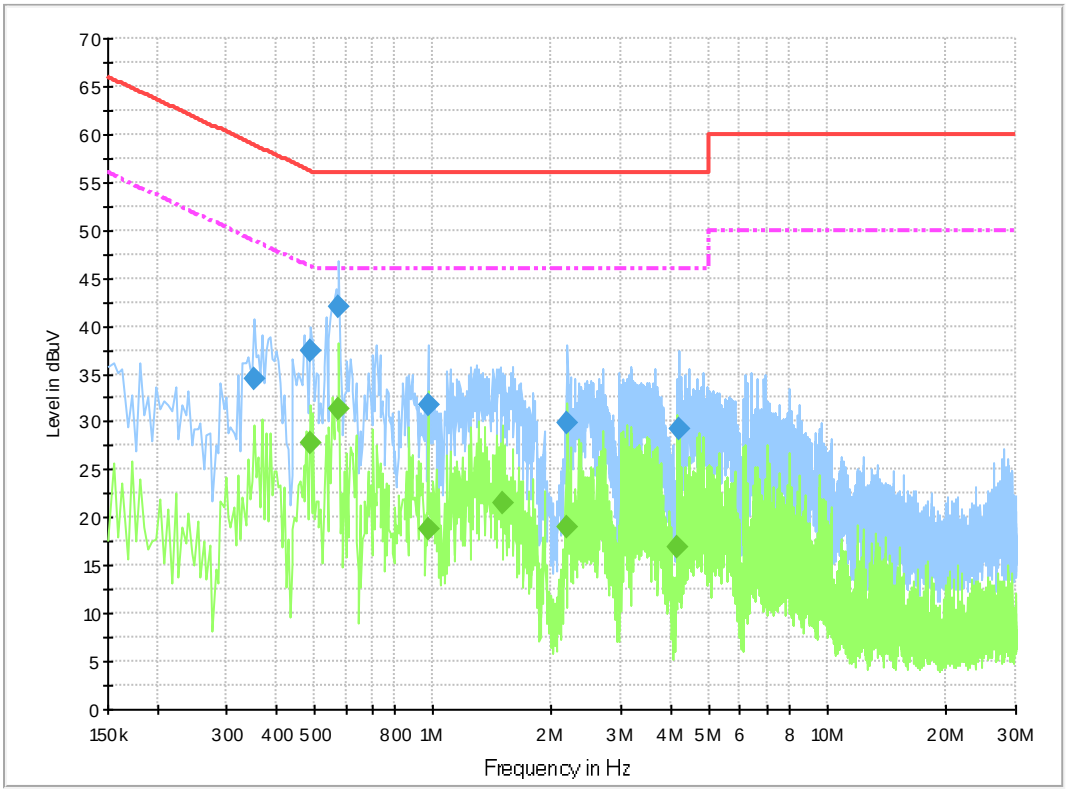

Fig A.14 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.352500	34.4	5000.0	9.000	On	L1	19.7	24.5	58.9	
0.487500	37.4	5000.0	9.000	On	L1	19.8	18.8	56.2	
0.577500	42.0	5000.0	9.000	On	L1	19.8	14.0	56.0	
0.969000	31.8	5000.0	9.000	On	L1	19.7	24.2	56.0	
2.193000	29.9	5000.0	9.000	On	L1	19.6	26.1	56.0	
4.213500	29.3	5000.0	9.000	On	L1	19.6	26.7	56.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.487500	27.9	5000.0	9.000	On	L1	19.8	18.3	46.2	
0.577500	31.4	5000.0	9.000	On	L1	19.8	14.6	46.0	
0.969000	18.7	5000.0	9.000	On	L1	19.7	27.3	46.0	
1.495500	21.6	5000.0	9.000	On	L1	19.7	24.4	46.0	
2.193000	19.0	5000.0	9.000	On	L1	19.6	27.0	46.0	
4.150500	16.8	5000.0	9.000	On	L1	19.7	29.2	46.0	

USB Mode, Set.3:

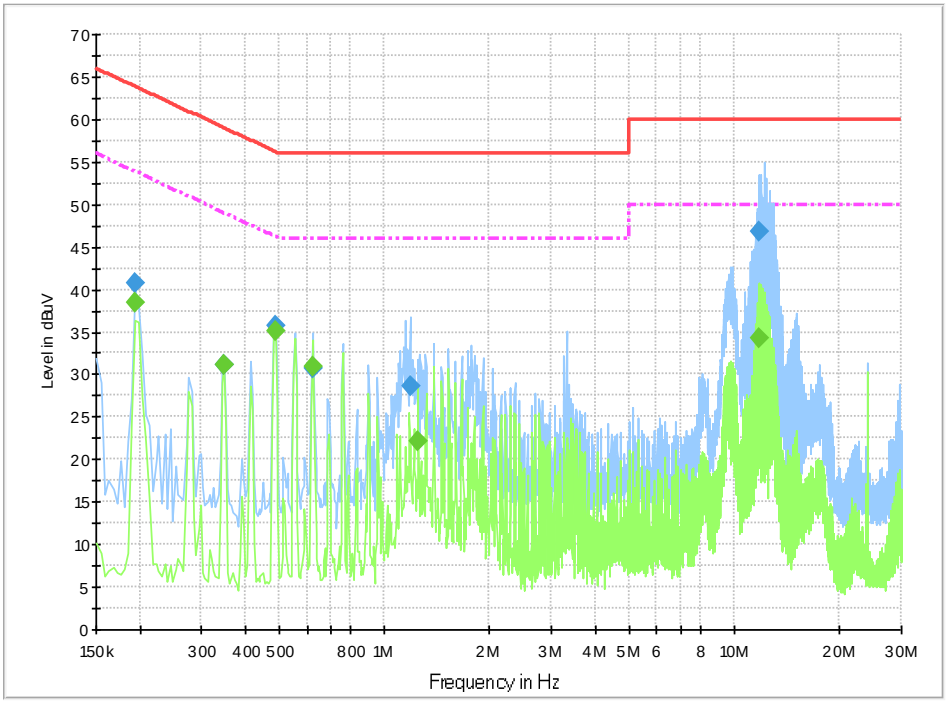

Fig A.15 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.195000	40.8	3000.0	9.000	On	N	19.6	23.0	63.8	
0.348000	31.1	3000.0	9.000	On	N	19.7	27.9	59.0	
0.487500	35.8	3000.0	9.000	On	L1	19.8	20.4	56.2	
0.622500	30.6	3000.0	9.000	On	N	19.7	25.4	56.0	
1.185000	28.7	3000.0	9.000	On	N	19.6	27.3	56.0	
11.782500	46.7	3000.0	9.000	On	N	19.8	13.3	60.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.195000	38.5	3000.0	9.000	On	N	19.6	15.3	53.8	
0.348000	31.1	3000.0	9.000	On	L1	19.7	17.9	49.0	
0.487500	35.2	3000.0	9.000	On	L1	19.8	11.1	46.2	
0.622500	31.0	3000.0	9.000	On	L1	19.7	15.0	46.0	
1.248000	22.2	3000.0	9.000	On	N	19.6	23.8	46.0	
11.814000	34.3	3000.0	9.000	On	L1	19.8	15.7	50.0	

USB Mode, Set.4:

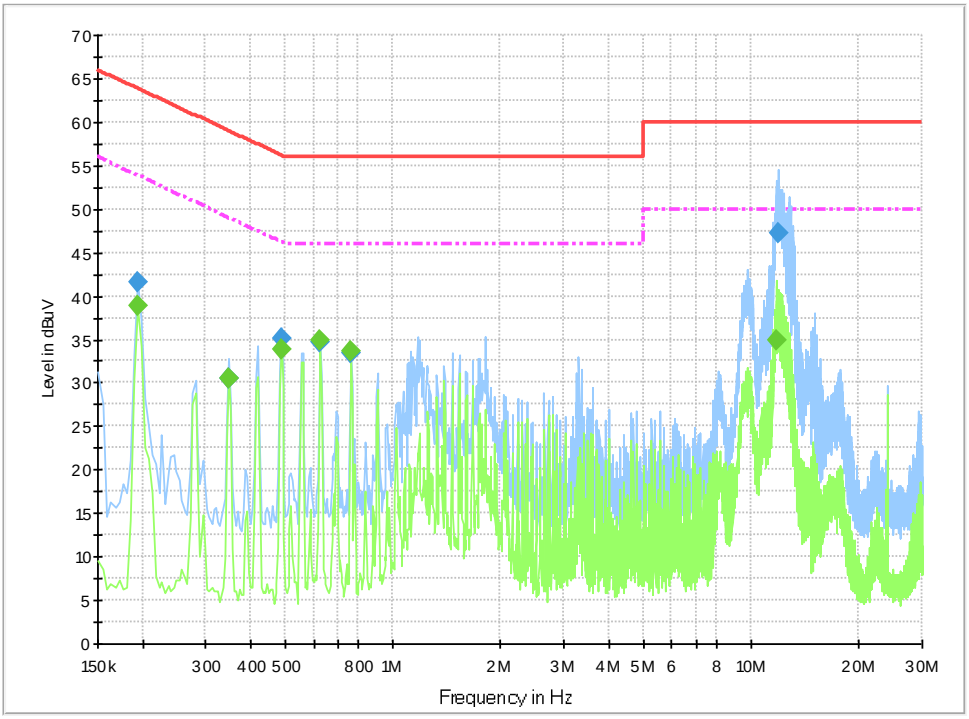

Fig A.16 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.195000	41.6	3000.0	9.000	On	L1	19.6	22.2	63.8	
0.348000	30.6	3000.0	9.000	On	N	19.7	28.4	59.0	
0.487500	35.1	3000.0	9.000	On	N	19.8	21.1	56.2	
0.627000	34.7	3000.0	9.000	On	L1	19.7	21.3	56.0	
0.766500	33.4	3000.0	9.000	On	L1	19.7	22.6	56.0	
11.845500	47.2	3000.0	9.000	On	L1	19.8	12.8	60.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.195000	38.9	3000.0	9.000	On	N	19.6	14.9	53.8	
0.348000	30.6	3000.0	9.000	On	N	19.7	18.4	49.0	
0.487500	33.8	3000.0	9.000	On	N	19.8	12.4	46.2	
0.627000	34.9	3000.0	9.000	On	N	19.7	11.1	46.0	
0.766500	33.6	3000.0	9.000	On	L1	19.7	12.4	46.0	
11.809500	34.9	3000.0	9.000	On	N	19.8	15.1	50.0	

*****END OF REPORT*****