



TEST REPORT

No. I16Z42165-EMC01

for

TCL Communication Ltd.

**HSUPA/HSDPA/UMTS 5 Band/GSM Quad Band/LTE 10 Band mobile
phone**

Model Name: 9008A

FCC ID: 2ACCJB080

with

Hardware Version: V04

Software Version: F31

Issued Date: 2017-01-03

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

Test Laboratory:

FCC 2.948 Listed: No.525429

CTTL, Telecommunication Technology Labs, Academy of Telecommunication Research, MIIT

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

Tel: +86(0)10-62304633-2512, Fax: +86(0)10-62304633-2504

Email: ctl_terminals@catr.cn, website: www.chinattl.com



REPORT HISTORY

Report Number	Revision	Description	Issue Date
I16Z42165-EMC01	Rev.0	1 st edition	2017-1-3

CONTENTS

1. TEST LABORATORY.....	4
1.1. TESTING LOCATION	4
1.2. TESTING ENVIRONMENT	4
1.3. PROJECT DATA.....	4
1.4. SIGNATURE	4
2. CLIENT INFORMATION.....	5
2.1. APPLICANT INFORMATION.....	5
2.2. MANUFACTURER INFORMATION.....	5
3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE)	6
3.1. ABOUT EUT	6
3.2. INTERNAL IDENTIFICATION OF EUT USED DURING THE TEST	6
3.3. INTERNAL IDENTIFICATION OF AE USED DURING THE TEST.....	6
3.4. EUT SET-UPS	7
4. REFERENCE DOCUMENTS	8
4.1. REFERENCE DOCUMENTS FOR TESTING.....	8
5. LABORATORY ENVIRONMENT	9
6. SUMMARY OF TEST RESULTS.....	10
7. TEST EQUIPMENTS UTILIZED.....	11
ANNEX A: MEASUREMENT RESULTS	12

1. Test Laboratory

1.1. Testing Location

CTTL(huayuan North Road)

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

CTTL (BDA)

Address: No.18A, Kangding Street, Beijing Economic-Technology
Development Area, Beijing, P. R. China 100176

1.2. Testing Environment

Normal Temperature: 15-35℃

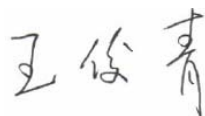
Relative Humidity: 20-75%

1.3. Project data

Testing Start Date: 2016-12-22

Testing End Date: 2016-12-29

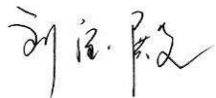
1.4. Signature



Wang Junqing
(Prepared this test report)



Qu Pengfei
(Reviewed this test report)



Liu Baodian
Deputy Director of the laboratory
(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name: TCL Communication Ltd.
Address /Post: 5F, C-Tower, No. 232, Liang Jing Road, ZhangJiang High-Tech Park,
Pudong Area,Shanghai,201203,P.R.China
Contact Person: zhang lei
Contact Email lei_zhang@tcl.com
Telephone: 0755-36646893
Fax: /

2.2. Manufacturer Information

Company Name: TCL Communication Ltd.
Address /Post: 5F, C-Tower, No. 232, Liang Jing Road, ZhangJiang High-Tech Park,
Pudong Area,Shanghai,201203,P.R.China
Contact Person: zhang lei
Contact Email lei_zhang@tcl.com
Telephone: 0755-36646893
Fax: /

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

3.1. About EUT

Description	HSUPA/HSDPA/UMTS 5 Band/GSM Quad Band/LTE 10 Band mobile phone
Model Name	9008A
FCC ID	2ACCJB080
Extreme vol. Limits	3.5VDC to 4.4VDC (nominal: 3.85VDC)

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

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version
EUT1	014826000200198	V04	F31

*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	/	inbuilt
AE2	Charger	/	16TCT-CH-1809
AE3	Charger	/	16TCT-CH-1792
AE4	USB Cable	/	16TCT-DC-0534
AE5	USB Cable	/	16TCT-DC-0702
AE6	Headset	/	16TCT-HS-1727
AE7	Headset	/	16TCT-HS-1709

AE1

Model	TLp030JC
Manufacturer	TCL Hyperpower Batteries Inc.
Capacitance	3000 mAh
Nominal voltage	3.85V

AE2

Model	CBA0058AAAC2 (UC11EU)
Manufacturer	TEPAO
Length of cable	/

AE3

Model	CBA0058AAAC3 (UC11EU)
Manufacturer	Yingju
Length of cable	/

AE4

Model	CDA3122005C2
Manufacturer	Shenghua
Length of cable	100cm

AE5

Model	CDA3122005C8
Manufacturer	PUAN
Length of cable	100cm

AE6

Model	CCB0046A10C4
Manufacturer	Meihao
Length of cable	120cm

AE7

Model	CCB0046A10C1
Manufacturer	Juwei
Length of cable	124cm

*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/AE5	Charger
Set.2	EUT1+ AE1+ AE3+ AE4/AE5	Charger
Set.3	EUT1+ AE1+ AE2+ AE4/AE5+ AE6/AE7	Charger +Headset
Set.4	EUT1+ AE1+ AE6/AE7	USB mode

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	10-1-15 Edition
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 (23 meters×17meters×10meters) 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, 10 m 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 3000 MHz

Semi-anechoic chamber SAC-2 (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	< 4Ω
Normalised site attenuation (NSA)	< ± 4 dB, 3m distance, from 30 to 1000 MHz
Site voltage standing-wave ratio (S_{VSWR})	Between 0 and 6 dB, from 1GHz to 18GHz
Uniformity of field strength	Between 0 and 6 dB, from 80 to 3000 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); CTTL (BDA)
2	Conducted Emission	15.107(a)	B.2	P	CTTL (BDA)

7. Test Equipments Utilized

NO.	Description	TYPE	SERIES NUMBER	MANUFACTURE	CAL DUE DATE	CALIBRATI ON INTERVAL
1	Test Receiver	ESU26	100235	R&S	2017-03-02	1 year
2	Test Receiver	ESCI 7	100344	R&S	2017-07-05	1 year
3	Universal Radio Communication Tester	CMW500	143008	R&S	2017-12-01	1 year
4	Universal Radio Communication Tester	CMW500	155415	R&S	2017-01-11	1 year
5	LISN	ENV216	101200	R&S	2017-07-10	1 year
6	EMI Antenna	VULB 9163	9163-301	Schwarzbeck	2017-12-16	3 years
7	EMI Antenna	3115	6914	ETS-Lindgren	2017-12-15	3 years
8	PC	OPTIPLEX 380	2X1YV2X	DELL	N/A	N/A
9	Printer	P1606dn	VNC3L52122	HP	N/A	N/A
10	Keyboard	L100	CN0RH6596589 07ATOI40	DELL	N/A	N/A
11	Mouse	M-UAE119	LZ935220ZRC	Lenovo	N/A	N/A

Test Item	Test Software and Version	Software Vendor
Radiated Continuous Emission	EMC32 V9.01	R&S
Conducted Emission	EMC32 V8.52.0	R&S

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 10 meters(for 30MHz-1GHz) and 3 meters (for above 1GHz) 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 model of the PC is DELL OPTIPLEX 380, and the serial number of the PC is 2X1YV2X. 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 ($\mu\text{V/m}$)		
	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:

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

Where

G_A : Antenna factor of receive antenna

G_{PL} : Path Loss

P_{Mea} : Measurement result on receiver.

Measurement uncertainty (worst case): $U = 4.3 \text{ dB}$, $k=2$.

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)
17826.750	40.9	-23.2	40.9	23.215	54.0	13.1	H
17824.500	40.9	-23.2	40.9	23.169	54.0	13.1	V
17828.250	40.9	-23.2	40.9	23.178	54.0	13.1	V
17826.000	40.8	-23.2	40.9	23.097	54.0	13.2	H
17822.250	40.8	-23.2	40.9	23.037	54.0	13.2	H
17819.250	40.8	-23.1	40.9	22.993	54.0	13.2	H

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)
17867.250	52.5	-23.8	40.9	35.413	74.0	21.5	H
17869.500	52.5	-23.8	40.9	35.436	74.0	21.5	H
17454.750	52.5	-25.2	41.2	36.446	74.0	21.5	H
17820.750	52.4	-23.1	40.9	34.585	74.0	21.6	H
17823.000	52.4	-23.2	40.9	34.590	74.0	21.6	V
17784.000	52.3	-23.4	41.0	34.784	74.0	21.7	V

Sample calculation: Peak detector, 17867.250MHz

$$\text{Result} = P_{\text{Mea}} (35.413\text{dB}\mu\text{V}) + G_A (40.9\text{dB/m}) + G_{PL}(-23.8 \text{ dB}) = 52.5\text{dB}\mu\text{V/m}$$

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)
17826.000	40.9	-23.2	40.9	23.183	54.0	13.1	H
17825.250	40.9	-23.2	40.9	23.168	54.0	13.1	V
17822.250	40.8	-23.2	40.9	23.057	54.0	13.2	V
17829.000	40.8	-23.3	40.9	23.112	54.0	13.2	H
17823.750	40.8	-23.2	40.9	23.034	54.0	13.2	H
17785.500	40.8	-23.4	41.0	23.190	54.0	13.2	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)
17775.000	52.2	-23.6	41.0	34.819	74.0	21.8	H
16865.250	52.2	-25.9	41.5	36.688	74.0	21.8	V
17777.250	52.2	-23.5	41.0	34.742	74.0	21.8	H
17079.750	52.2	-25.5	41.3	36.347	74.0	21.8	V
17784.750	52.2	-23.4	41.0	34.605	74.0	21.8	V
17819.250	52.1	-23.1	40.9	34.288	74.0	21.9	H

Sample calculation: Peak detector, 17775.000MHz

Result = P_{Mea} (34.819dBμV)+ G_A (41.0dB/m)+ G_{PL} (-23.6 dB) =52.2dBμV/m

Measurement results for Set.3:
Charging Mode with headset/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)
17789.250	52.5	-23.3	41.0	34.827	74.0	21.5	V
17737.500	52.5	-24.2	41.0	35.615	74.0	21.5	H
17814.000	52.2	-23.1	40.9	34.293	74.0	21.8	V
17822.250	52.1	-23.2	40.9	34.343	74.0	21.9	V
17776.500	52.1	-23.5	41.0	34.610	74.0	21.9	H
17875.500	52.0	-23.9	40.9	34.935	74.0	22.0	V

Charging Mode with headset /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)
17828.250	41.0	-23.2	40.9	23.352	54.0	13.0	H
17824.500	40.9	-23.2	40.9	23.198	54.0	13.1	V
17829.750	40.9	-23.3	40.9	23.249	54.0	13.1	V
17784.000	40.9	-23.4	41.0	23.349	54.0	13.1	H
17820.000	40.9	-23.1	40.9	23.103	54.0	13.1	V
17821.500	40.9	-23.2	40.9	23.111	54.0	13.1	V

Sample calculation: Peak detector, 17828.250 MHz

Result = P_{Mea} (23.352dBμV) + G_A (40.9dB/m) + G_{PL} (-23.2dB) =41.0dBμV/m

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)
17780.250	41.0	-23.5	41.0	23.466	54.0	13.0	V
17824.500	40.9	-23.2	40.9	23.139	54.0	13.1	H
17826.000	40.9	-23.2	40.9	23.160	54.0	13.1	V
17773.500	40.9	-23.6	41.0	23.466	54.0	13.1	V
17823.750	40.8	-23.2	40.9	23.091	54.0	13.2	V
17784.000	40.8	-23.4	41.0	23.250	54.0	13.2	V

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)
17789.250	52.9	-23.3	41.0	35.224	74.0	21.1	V
17752.500	52.8	-23.9	41.0	35.695	74.0	21.2	H
17883.750	52.0	-24.0	40.9	35.143	74.0	22.0	H
17142.750	52.0	-25.5	41.3	36.279	74.0	22.0	V
17772.000	52.0	-23.6	41.0	34.643	74.0	22.0	H
17892.000	51.8	-24.1	40.9	35.063	74.0	22.2	V

Sample calculation: Peak detector, 17789.250MHz

Result = P_{Mea} (35.224dBμV) + G_A (41.0dB/m) + G_{PL} (-23.3 dB) =52.9dBμV/m

Charging Mode, Set.1

Normal RE_30M-1GHz_10m

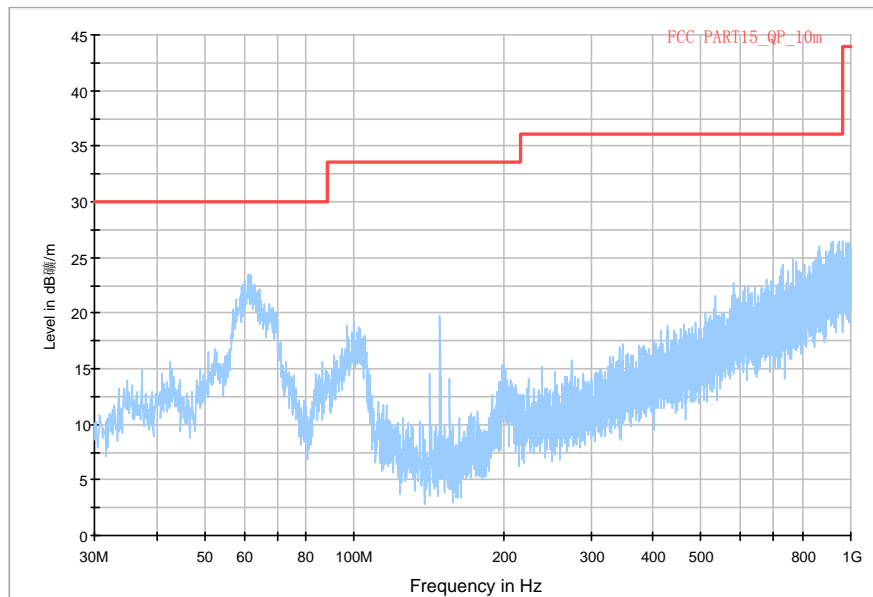


Fig A.1 Radiated Emission from 30MHz to 1GHz

15B RE - 1GHz-3GHz

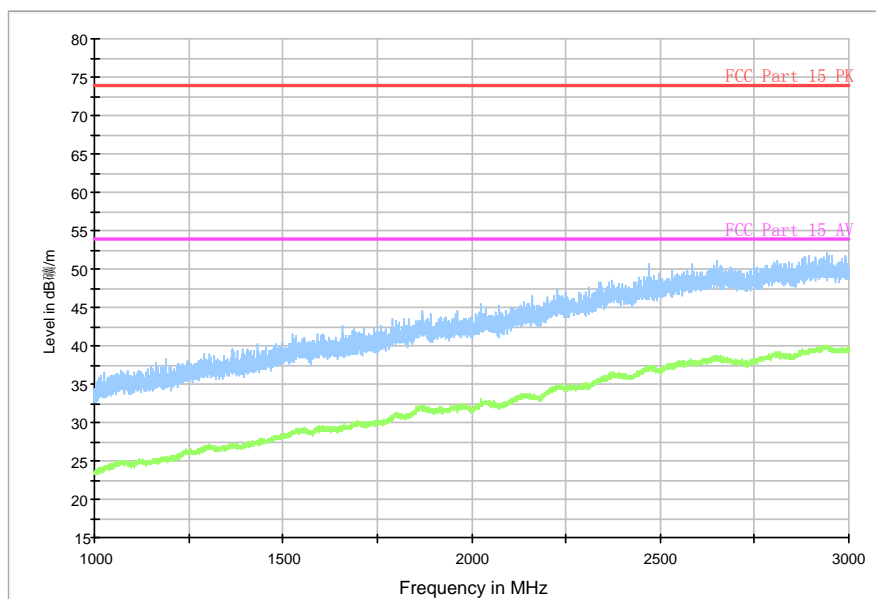


Fig A.2 Radiated Emission from 1GHz to 3GHz

RE - 3GHz-18GHz

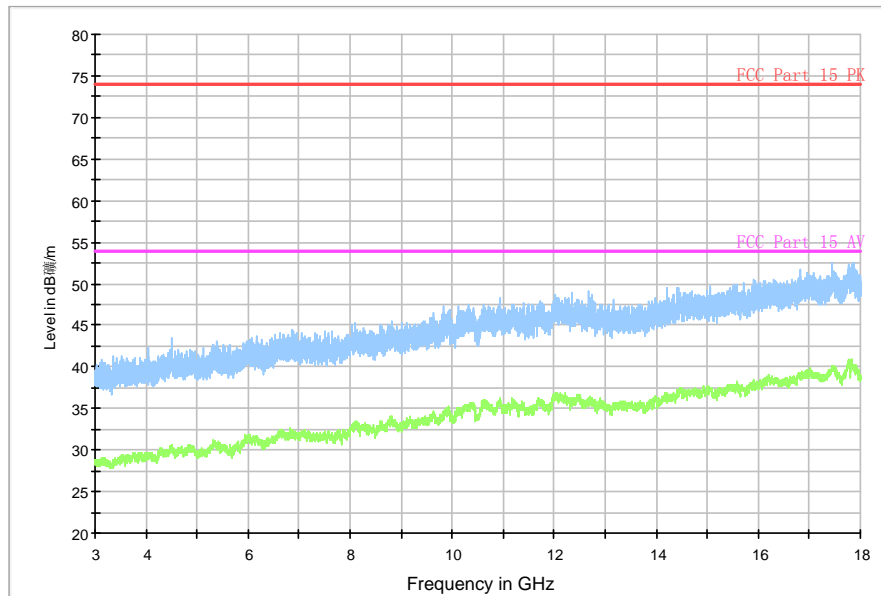


Fig A.3 Radiated Emission from 3GHz to 18GHz

Charging Mode, Set.2

Normal RE_30M-1GHz_10m

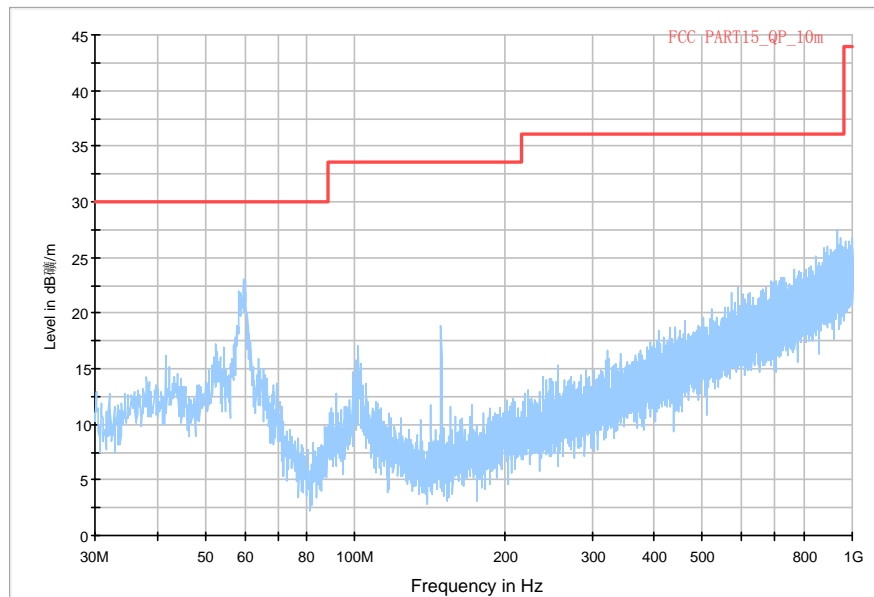


Fig A.4 Radiated Emission from 30MHz to 1GHz

15B RE - 1GHz-3GHz

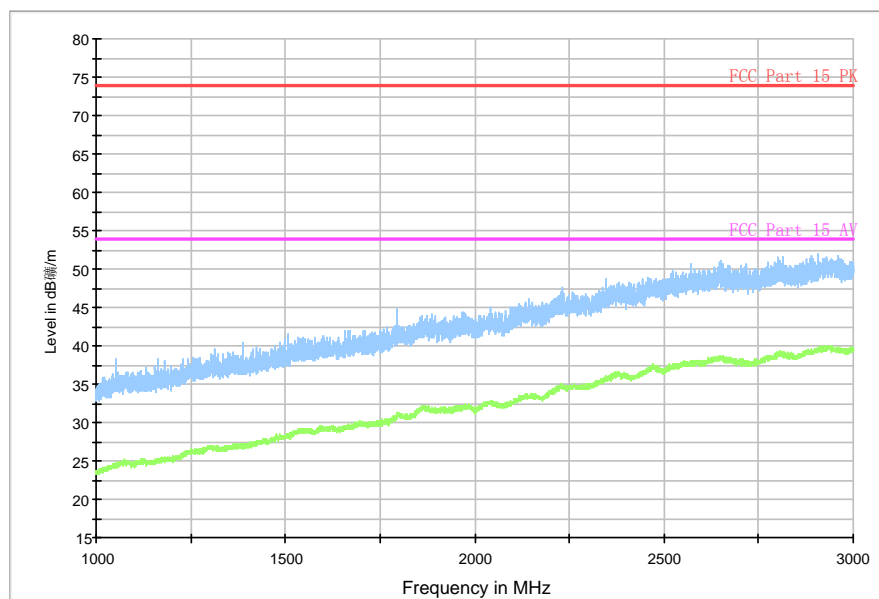


Fig A.5 Radiated Emission from 1GHz to 3GHz

RE - 3GHz-18GHz

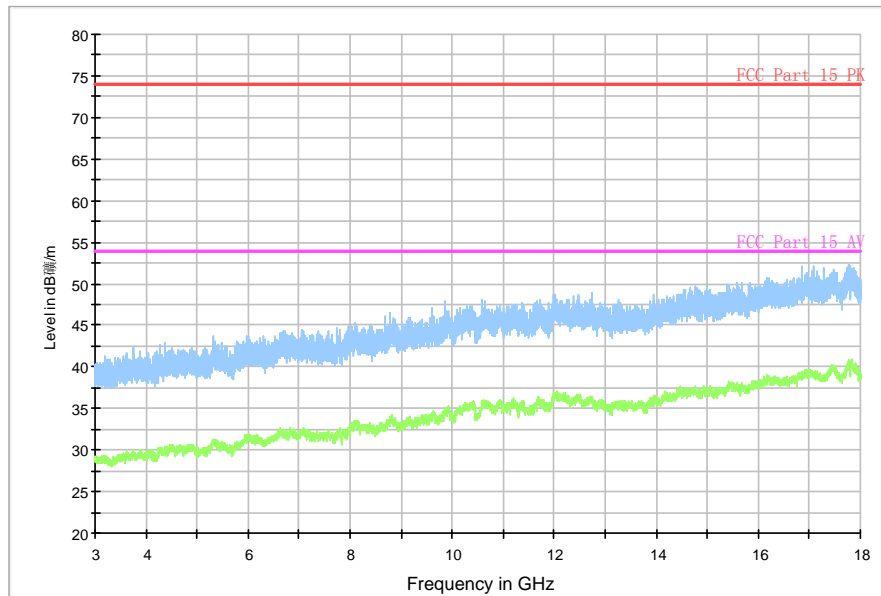


Fig A.6 Radiated Emission from 3GHz to 18GHz

Charging Mode with headset, Set.3

Normal RE_30M-1GHz_10m_Class B

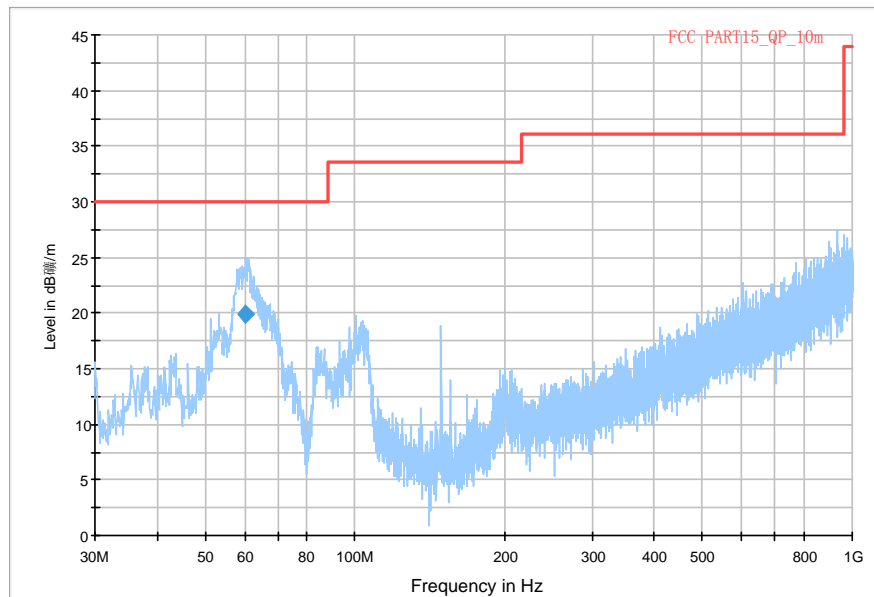


Fig A.7 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBuV/m)
60.061000	19.9	320.0	V	150.0	-12.2	10.1	30.0

15B RE - 1GHz-3GHz

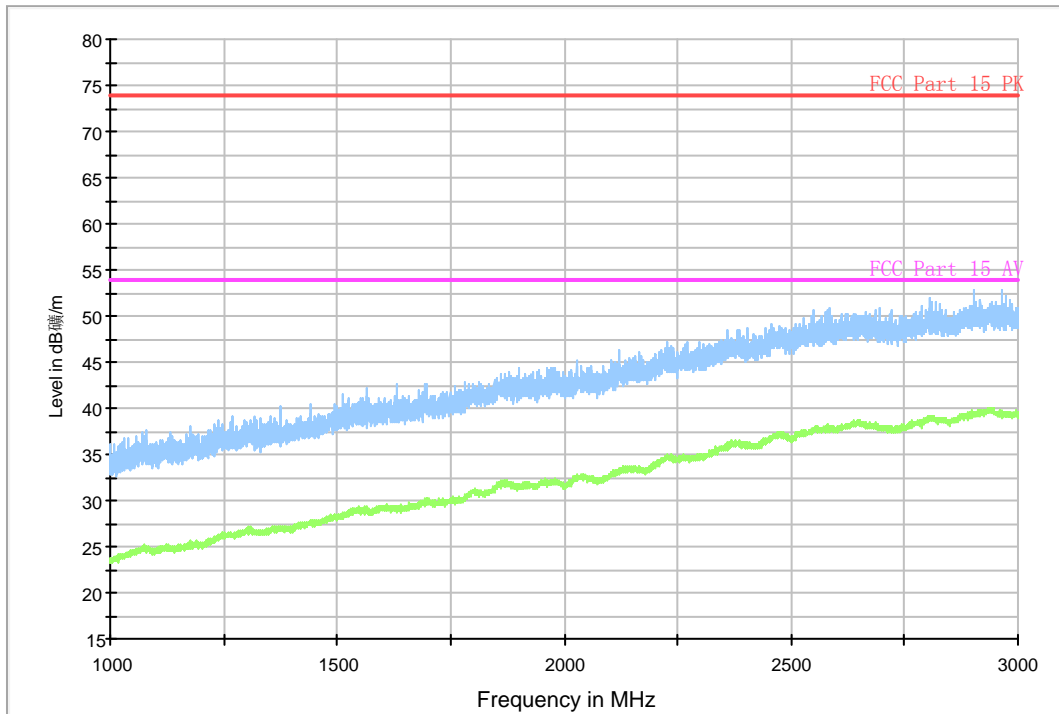


Fig A.8 Radiated Emission from 1GHz to 3GHz

RE - 3GHz-18GHz

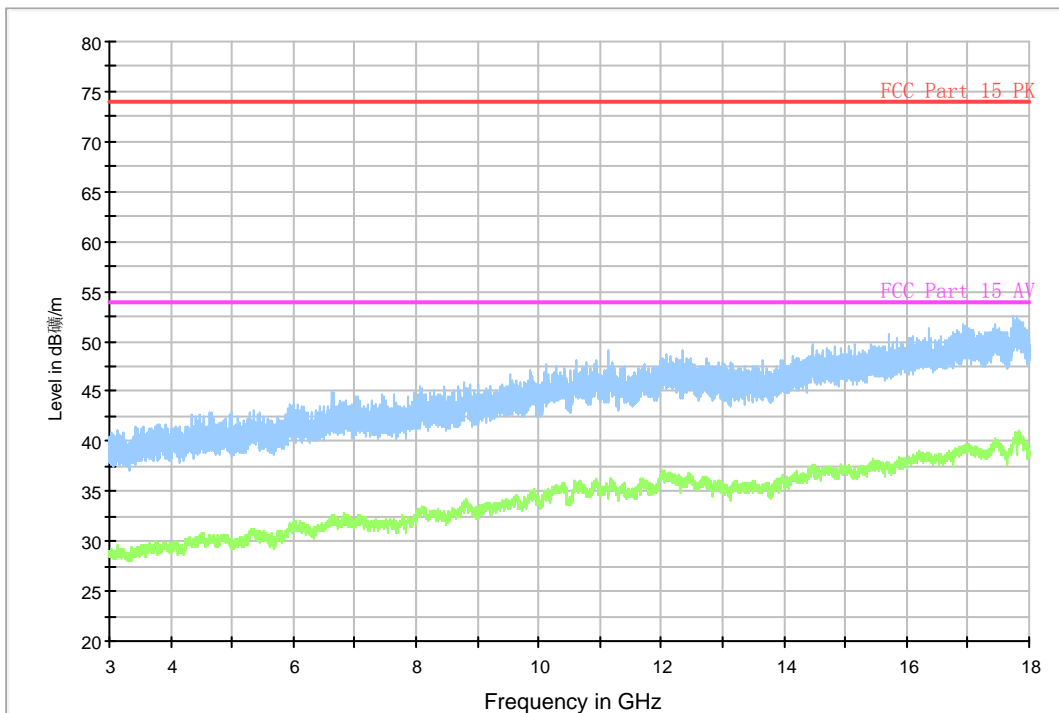


Fig A.9 Radiated Emission from 3GHz to 18GHz

USB Mode, Set.4

15B RE 30MHz-1GHz

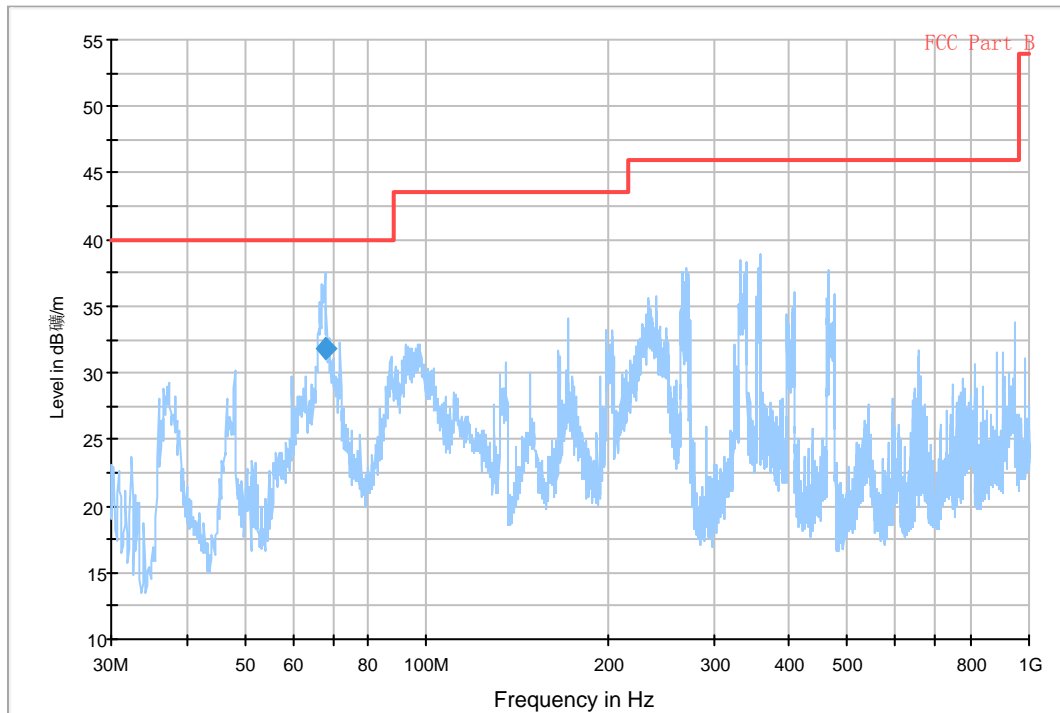


Fig A.10 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
67.830000	31.8	100.0	V	73.0	-27.9	8.2	40.0

15B RE - 1GHz-3GHz

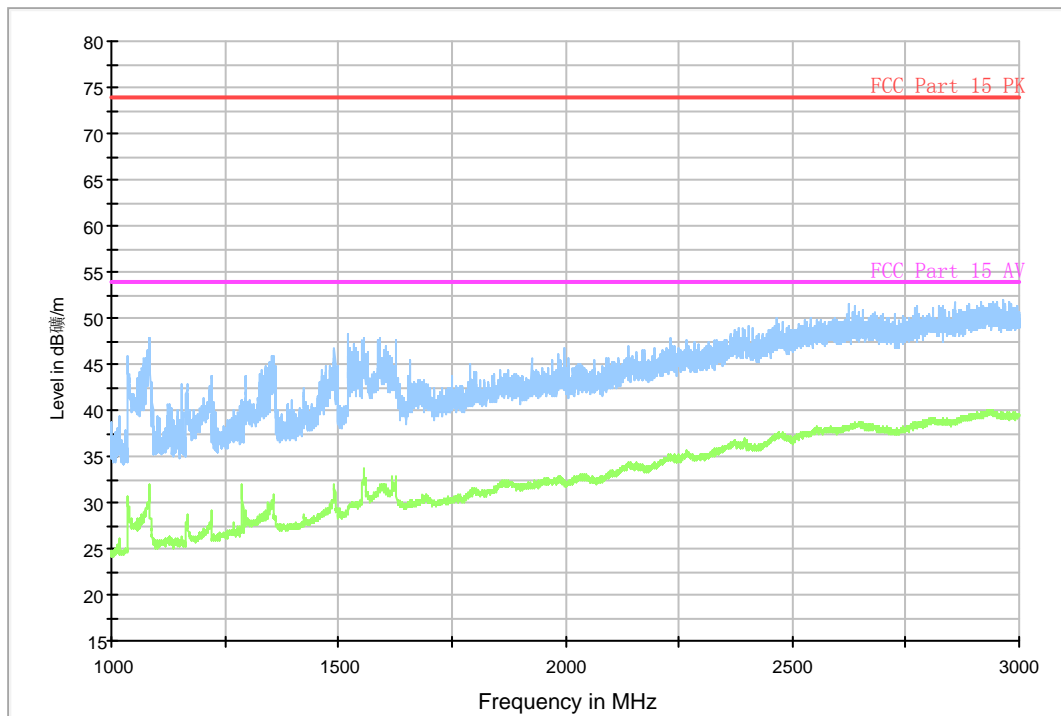


Fig A.11 Radiated Emission from 1GHz to 3GHz

RE - 3GHz-18GHz

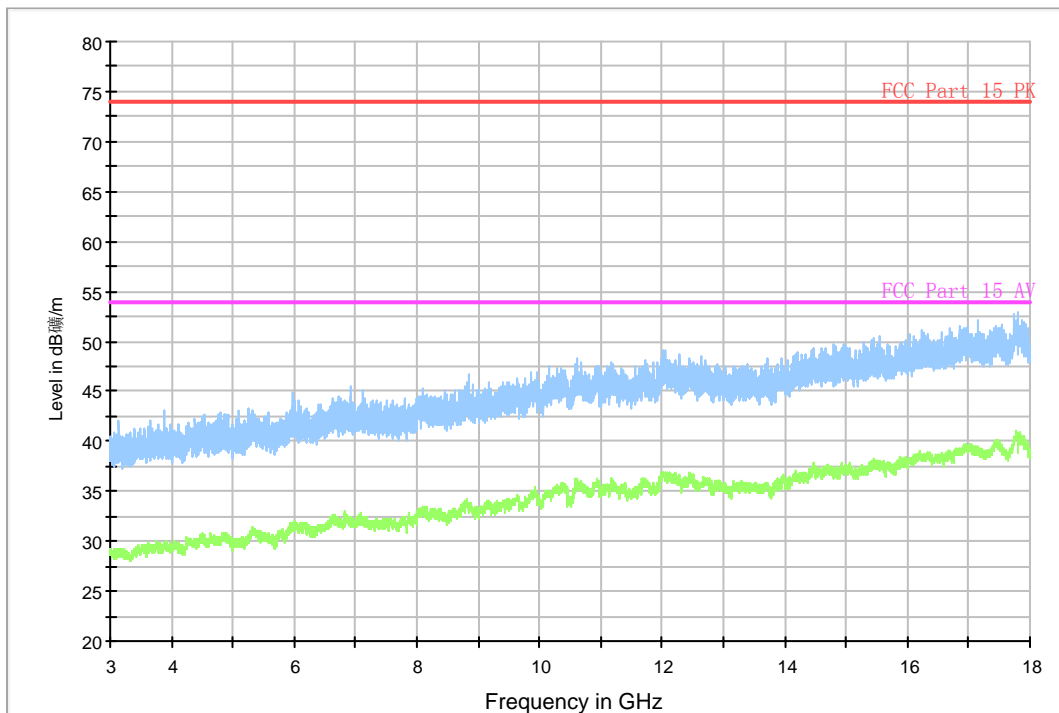


Fig A.12 Radiated Emission from 3GHz to 18GHz

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 OPTIPLEX 380, and the serial number of the PC is 2X1YV2X. 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 (dB μ V)	
	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: $U= 2.9 \text{ dB}$, $k=2$.

Charging Mode, Set.1

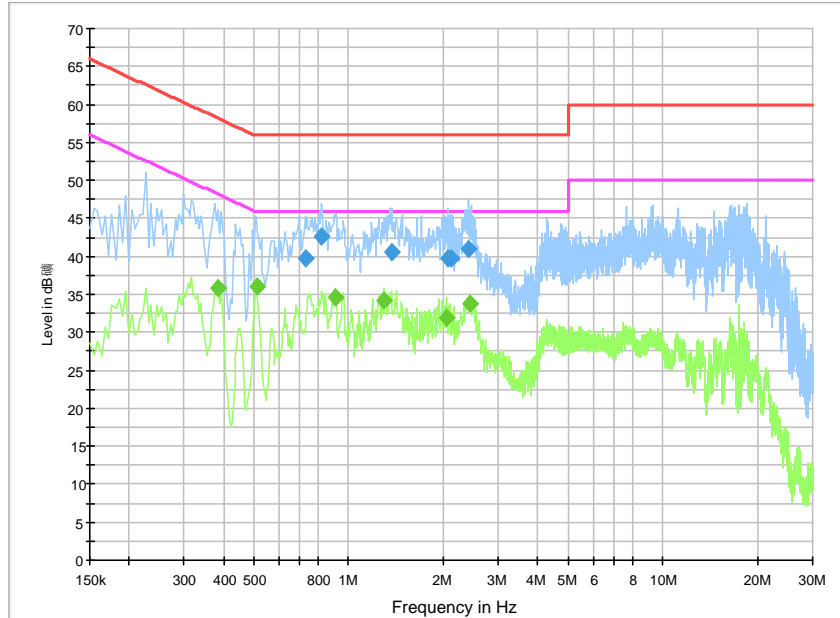


Fig A.13 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.726000	39.6	GND	L1	10.3	16.4	56.0
0.820500	42.7	GND	L1	10.3	13.3	56.0
1.374000	40.5	GND	L1	10.3	15.5	56.0
2.080500	39.7	GND	L1	10.4	16.3	56.0
2.130000	39.7	GND	L1	10.4	16.3	56.0
2.400000	41.1	GND	L1	10.4	14.9	56.0

Final Result 2

Frequency (MHz)	Average (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.384000	35.8	GND	L1	10.3	12.4	48.2
0.510000	36.0	GND	L1	10.3	10.0	46.0
0.906000	34.5	GND	L1	10.3	11.5	46.0
1.302000	34.2	GND	L1	10.3	11.8	46.0
2.044500	32.0	GND	L1	10.4	14.0	46.0
2.427000	33.7	GND	L1	10.4	12.3	46.0

Charging Mode, Set.2

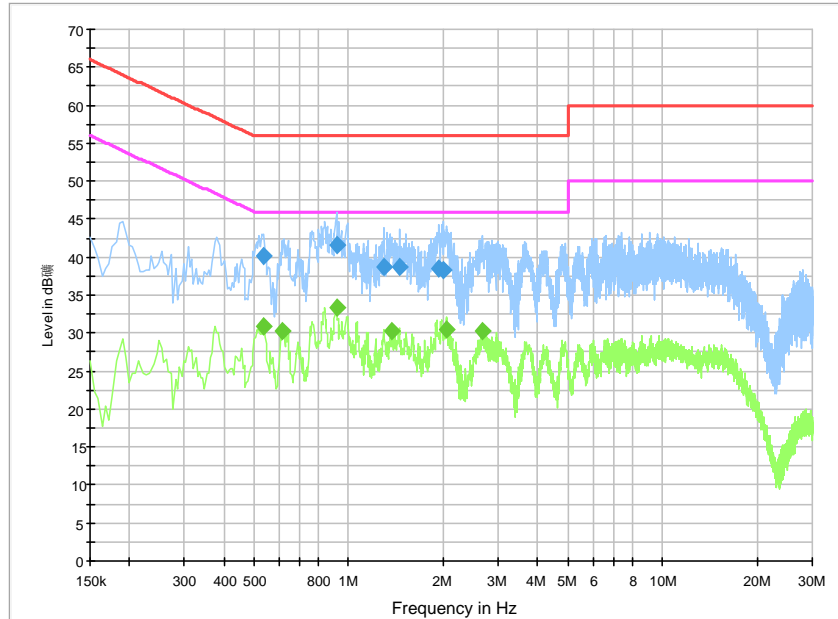


Fig A.14 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.537000	40.1	GND	L1	10.3	15.9	56.0
0.915000	41.7	GND	L1	10.3	14.3	56.0
1.297500	38.6	GND	L1	10.3	17.4	56.0
1.455000	38.8	GND	L1	10.3	17.2	56.0
1.932000	38.4	GND	L1	10.4	17.6	56.0
1.999500	38.3	GND	L1	10.4	17.7	56.0

Final Result 2

Frequency (MHz)	Average (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.537000	30.9	GND	L1	10.3	15.1	46.0
0.613500	30.4	GND	L1	10.3	15.6	46.0
0.915000	33.3	GND	L1	10.3	12.7	46.0
1.365000	30.3	GND	L1	10.3	15.7	46.0
2.058000	30.5	GND	L1	10.4	15.5	46.0
2.656500	30.2	GND	L1	10.4	15.8	46.0

Charging Mode with headset, Set.3

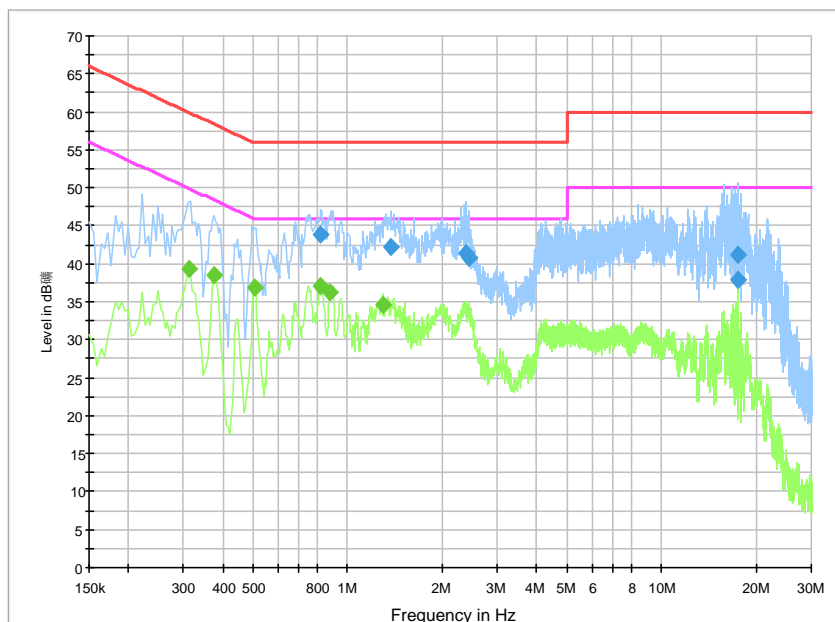


Fig A.15 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.820500	43.9	GND	L1	10.3	12.1	56.0
1.378500	42.2	GND	L1	10.3	13.8	56.0
2.386500	41.4	GND	L1	10.4	14.6	56.0
2.427000	40.9	GND	L1	10.4	15.1	56.0
17.421000	38.0	GND	L1	11.1	22.0	60.0
17.479500	41.2	GND	N	11.0	18.8	60.0

Final Result 2

Frequency (MHz)	Average (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.312000	39.3	GND	L1	10.3	10.6	49.9
0.375000	38.5	GND	L1	10.3	9.9	48.4
0.505500	36.9	GND	L1	10.3	9.1	46.0
0.820500	37.0	GND	L1	10.3	9.0	46.0
0.879000	36.2	GND	L1	10.3	9.8	46.0
1.288500	34.5	GND	L1	10.3	11.5	46.0

USB Mode, Set.4

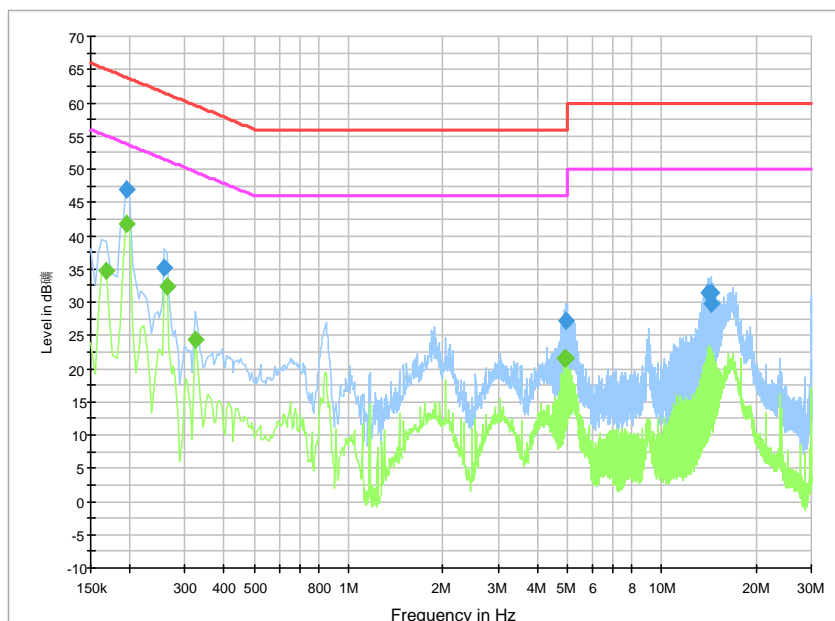


Fig A.16 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.195000	46.9	GND	L1	10.3	16.9	63.8
0.258000	35.2	GND	L1	10.3	26.3	61.5
4.951500	27.1	GND	L1	10.5	28.9	56.0
14.064000	31.3	GND	N	10.8	28.7	60.0
14.325000	31.5	GND	N	10.9	28.5	60.0
14.392500	29.7	GND	N	10.9	30.3	60.0

Final Result 2

Frequency (MHz)	Average (dBμV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.168000	34.6	GND	L1	10.3	20.4	55.1
0.195000	41.7	GND	N	10.3	12.1	53.8
0.262500	32.4	GND	L1	10.3	18.9	51.4
0.325500	24.3	GND	L1	10.3	25.3	49.6
4.884000	21.5	GND	L1	10.5	24.5	46.0
4.951500	21.4	GND	L1	10.5	24.6	46.0

END OF REPORT