



TEST REPORT

No. I19Z62392-EMC01

for

TCL Communication Ltd.

GSM/UMTS/LTE Mobile phone

Model Name: 5002S/5002L

FCC ID: 2ACCJH120

with

Hardware Version: 01

Software Version: 3C7D

Issued Date: 2020-02-25

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.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

Test Laboratory:

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
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1. Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2005 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (CN0066). The detail accreditation scope can be found on NVLAP website.

1.2. Testing Location

Location 1: CTTL(huayuan North Road)

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

Location 2: CTTL(BDA)

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

1.3. Testing Environment

Normal Temperature: 15-35°C

Relative Humidity: 20-75%

1.4. Project data

Testing Start Date: 2020-02-03

Testing End Date: 2020-02-25

1.5. Signature



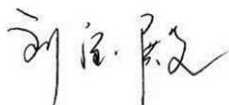
An Hui

(Prepared this test report)



Zhang Ying

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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: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong
Science Park, Shatin, NT, Hong Kong
City: Hong Kong
Postal Code: /
Country: China
Telephone: 0086-755-36611722
Fax: /

2.2. Manufacturer Information

Company Name: TCL Communication Ltd.
Address /Post: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong
Science Park, Shatin, NT, Hong Kong
City: Hong Kong
Postal Code: /
Country: China
Telephone: 0086-755-36611722
Fax: /

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

3.1. About EUT

Description	GSM/UMTS/LTE Mobile phone
Model Name	5002S/5002L
FCC ID	2ACCJH120

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	015650000200621	01	3C7D

*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	/	CAB2880001C1
AE2	Travel charger	/	CBA0058AGAC5
AE3	Travel charger	/	CBA0058AGAC7
AE4	USB Cable	/	CDA3122005C8
AE5	USB Cable	/	CDA3122005C1
AE6	Headset	/	/

AE1

Model	CAB2880001C1
Manufacturer	BYD
Capacitance	3000mAh
Nominal voltage	/

AE2

Model	CBA0058AGAC5
Manufacturer	PUAN
Length of cable	/

AE3

Model	CBA0058AGAC7
Manufacturer	CHENYANG
Length of cable	/



AE4

Model CDA3122005C8
Manufacturer PUAN
Length of cable /

AE5

Model CDA3122005C1
Manufacturer JUWEI
Length of cable /

AE6

Model Headset
Manufacturer /
Length of cable /

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

3.4. EUT set-ups

EUT set-up No.	Combination of EUT and AE	Remarks
Set.1	EUT1+ AE1 + AE2 + AE4/AE5 + AE6	Charger + FM
Set.2	EUT1+ AE1 + AE3 + AE4/AE5 + AE6	Charger + FM
Set.3	EUT1+ AE1 + AE4/AE5	USB mode + CAMERA

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	2018
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×17 meters×10 meters) 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/10m 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

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	< 4 Ω
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)	A.1	BR	Location1 & Location 2
2	Conducted Emission	15.107(a)	A.2	BR	Location 1

7. Test Equipments Utilized

NO.	Description	TYPE	SERIES NUMBER	MANUFACTURE	CAL DUE DATE	CALIBRATION INTERVAL
1	Signal Generator	SMF100A	101295	R&S	2020-11-06	1 year
2	Test Receiver	ESU26	100376	R&S	2020-10-30	1 year
3	EMI Antenna	VULB9163	9163-482	Schwarzbeck	2020-09-16	1 year
4	Test Receiver	ESU26	100235	R&S	2020-03-01	1 year
5	EMI Antenna	VULB9163	9163-1222	Schwarzbeck	2020-03-14	1 year
6	EMI Antenna	3115	00167250	ETS-Lindgren	2020-04-14	1 year
7	Universal Radio Communication Tester	CMW500	150344	R&S	2020-11-17	1 year
8	Test Receiver	ESCI 3	100344	R&S	2020-03-14	1 year
9	LISN	ENV216	101200	R&S	2020-03-14	1 year
10	PC	M4000E-17	M706GWXD	LENOVO	N/A	N/A
11	Printer	P1606dn	VNC3L52122	HP	N/A	N/A

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(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 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, charging mode and License RX band mode.

During the charging mode the camera is keeping on taking photos.

During the USB mode the FM application is started up. The model of the PC is Lenovo M4000e-17, and the serial number of the PC is M706RMW2. 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.

License RX band mode: Test mode: GSM850, WCDMA BAND 5, LTE BAND 5, LTE BAND 12.

A.1.3 Measurement Limit

Frequency range (MHz)	Field strength limit ($\mu\text{V}/\text{m}$)		
	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/3MHz	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:

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

Where

G_A : Antenna factor of receive antenna

G_{PL} : Path Loss

P_{Mea} : Measurement result on receiver.

Measurement uncertainty (worst case): 30MHz-1GHz: 5.40dB, 1GHz-18GHz: 4.32dB, $k=2$.

Measurement results for Set.1:

Charging Mode + FM/Average detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17021.000	42.13	-26.6	41.7	27.03	54.0	11.9	V
17103.500	42.05	-26.0	41.6	26.49	54.0	12.0	V
17051.000	41.96	-26.4	41.6	26.69	54.0	12.0	V
17092.000	41.95	-26.1	41.6	26.46	54.0	12.1	V
17896.000	41.94	-26.2	41.3	26.85	54.0	12.1	H
17049.500	41.93	-26.4	41.6	26.67	54.0	12.1	V

Charging Mode + FM /Peak detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17212.500	54.1	-26.5	41.5	39.06	74.0	19.9	V
16466.000	53.9	-27.2	41.3	39.78	74.0	20.1	V
17014.500	53.8	-26.6	41.7	38.74	74.0	20.2	V
17184.000	53.7	-26.3	41.5	38.52	74.0	20.3	V
17043.000	53.7	-26.4	41.7	38.46	74.0	20.3	V
17688.500	53.7	-26.5	41.2	38.92	74.0	20.3	V

Measurement results for Set.2:
Charging Mode + FM /Average detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17899.000	42.16	-26.2	41.3	27.06	54.0	11.8	V
17112.500	42.14	-26.0	41.6	26.54	54.0	11.9	V
17097.500	42.14	-26.1	41.6	26.62	54.0	11.9	H
17062.000	42.03	-26.3	41.6	26.70	54.0	12.0	V
17050.000	42.03	-26.4	41.6	26.76	54.0	12.0	V
16953.000	42.02	-27.0	41.7	27.38	54.0	12.0	V

Charging Mode+ FM /Peak detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17467.500	54.5	-26.3	41.2	39.60	74.0	19.5	H
16594.500	54.4	-26.6	41.4	39.61	74.0	19.6	H
17051.000	54.3	-26.4	41.6	39.07	74.0	19.7	H
17733.000	54.3	-26.5	41.2	39.61	74.0	19.7	V
16384.500	54.3	-27.0	41.2	40.12	74.0	19.7	V
17978.500	54.3	-25.9	41.3	38.84	74.0	19.7	H

Measurement results for Set.3:
USB Mode + CAMERA/Average detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17021.000	42.13	-26.6	41.7	27.03	54.0	11.9	V
17103.500	42.05	-26.0	41.6	26.49	54.0	12.0	V
17051.000	41.96	-26.4	41.6	26.69	54.0	12.0	V
17092.000	41.95	-26.1	41.6	26.46	54.0	12.1	V
17896.000	41.94	-26.2	41.3	26.85	54.0	12.1	H
17049.500	41.93	-26.4	41.6	26.67	54.0	12.1	V

USB Mode + CAMERA/Peak detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17006.000	54.7	-26.7	41.7	39.68	74.0	19.3	V
17670.000	54.6	-26.5	41.2	39.84	74.0	19.4	V
17869.500	54.2	-26.3	41.3	39.23	74.0	19.8	V
17104.000	54.2	-26.0	41.6	38.60	74.0	19.8	H
16856.500	54.2	-26.9	41.6	39.47	74.0	19.8	V
17658.500	54.1	-26.5	41.2	39.36	74.0	19.9	V

Charging Mode + FM, Set.1

15B RE 30MHz-1GHz

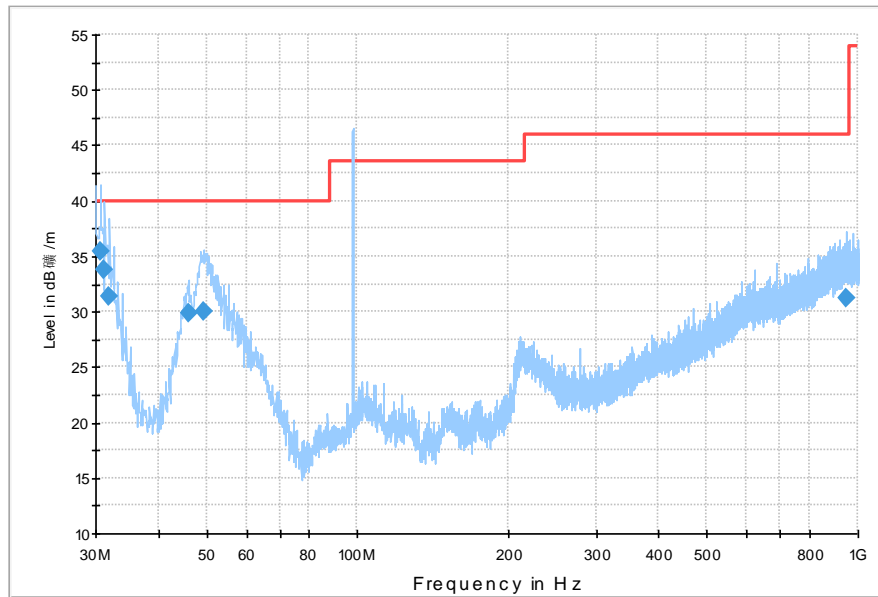


Figure A.1 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dB μV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB μV/m)
30.679000	35.4	100.0	V	48.0	-4.0	4.6	40.0
31.261000	33.7	100.0	V	48.0	-3.9	6.3	40.0
31.940000	31.4	100.0	V	48.0	-3.8	8.6	40.0
45.908000	29.9	100.0	V	-42.0	-0.8	10.1	40.0
49.303000	30.0	110.0	V	-25.0	0.3	10.0	40.0
946.35900	31.2	100.0	H	-25.0	11.9	14.8	46.0

15B RE - 1GHz-3GHz

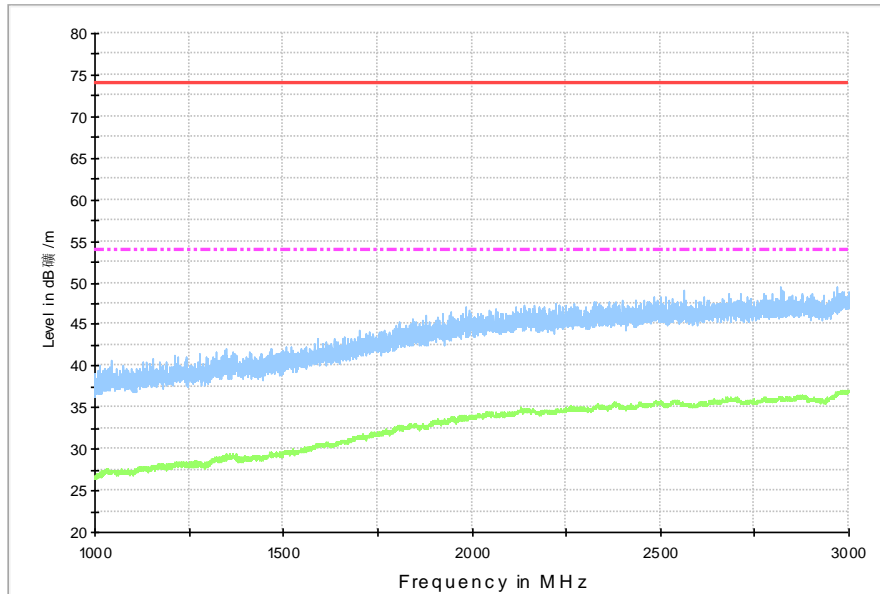


Figure A.2 Radiated Emission from 1GHz to 3GHz

RE - 3GHz-18GHz

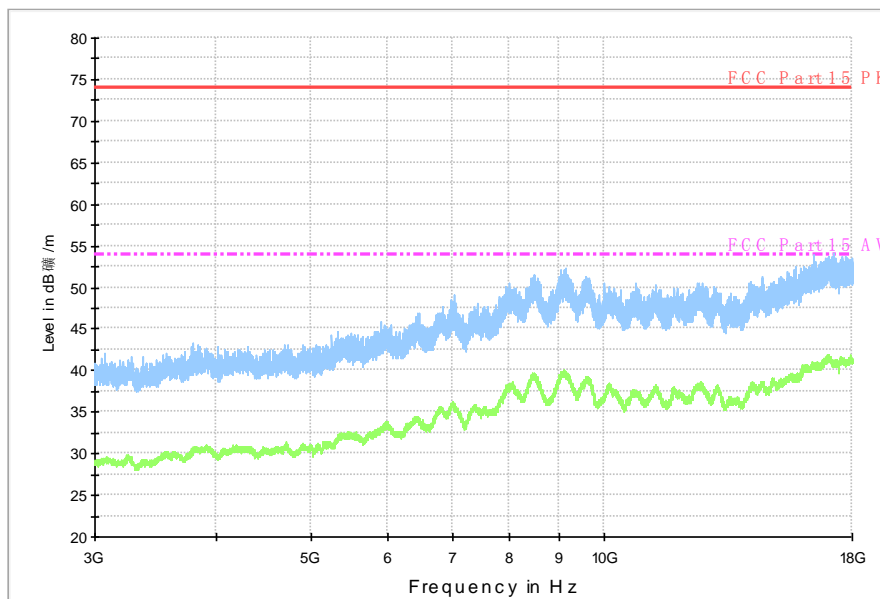


Figure A.3 Radiated Emission from 3GHz to 18GHz

Charging Mode + FM, Set.2

15B RE 30MHz-1GHz

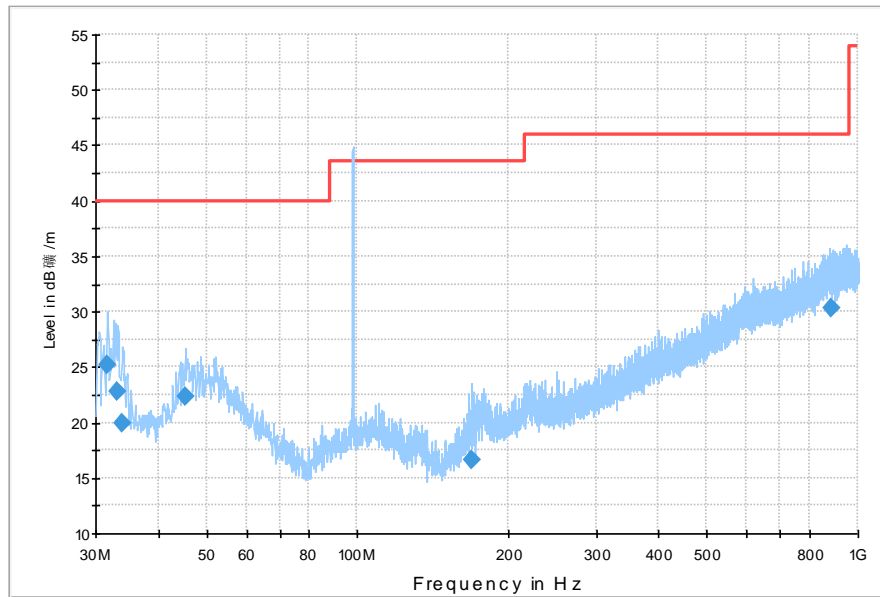


Figure A.4 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dB μV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB μV/m)
31.649000	25.2	110.0	V	14.0	-3.9	14.8	40.0
33.201000	22.8	100.0	V	45.0	-3.6	17.2	40.0
33.977000	20.0	100.0	V	35.0	-3.5	20.0	40.0
45.423000	22.4	100.0	V	-41.0	-0.9	17.6	40.0
169.77700	16.6	100.0	V	-24.0	-4.2	26.9	43.5
885.34600	30.2	119.0	H	-34.0	11.5	15.8	46.0

15B RE - 1GHz-3GHz

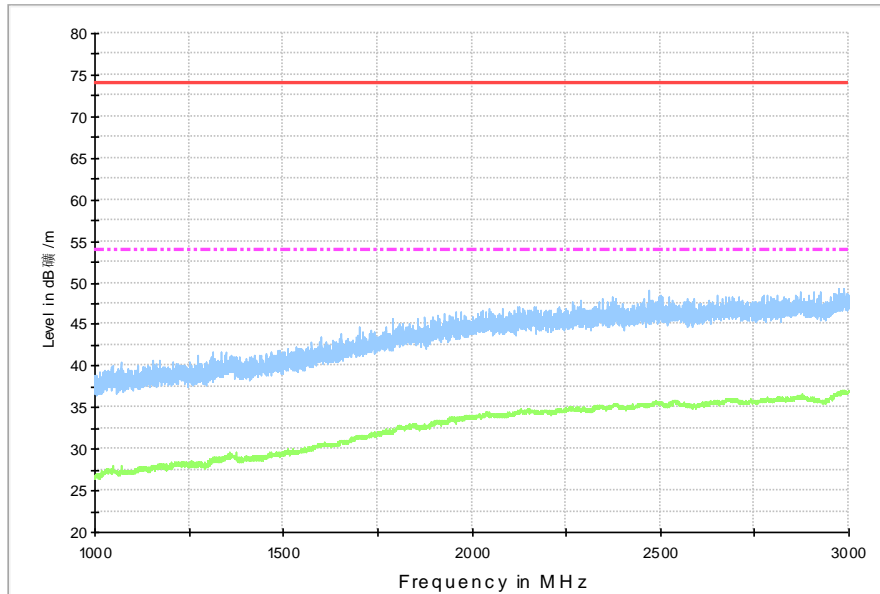


Figure A.5 Radiated Emission from 1GHz to 3GHz

RE - 3GHz-18GHz

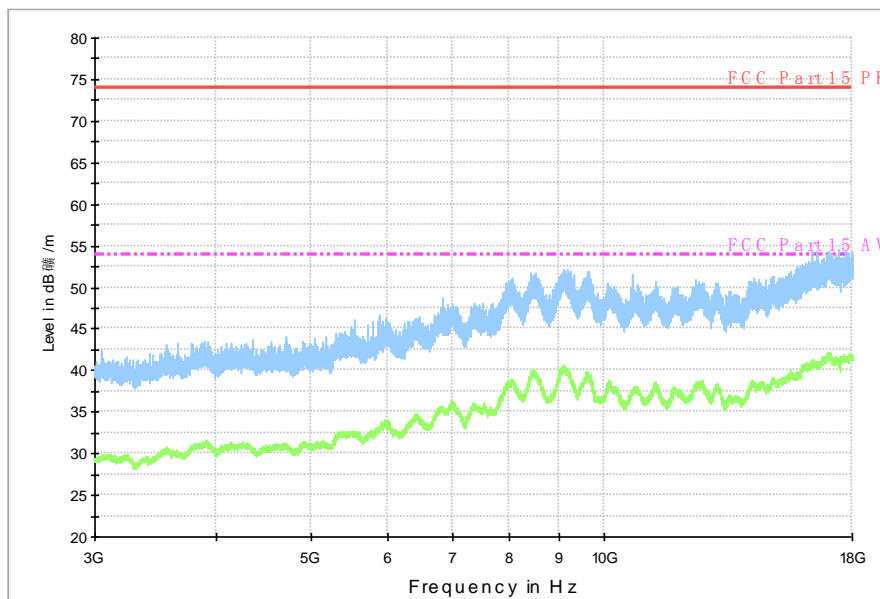


Figure A.6 Radiated Emission from 3GHz to 18GHz

USB Mode + CAMERA, Set.3

15B RE 30MHz-1GHz

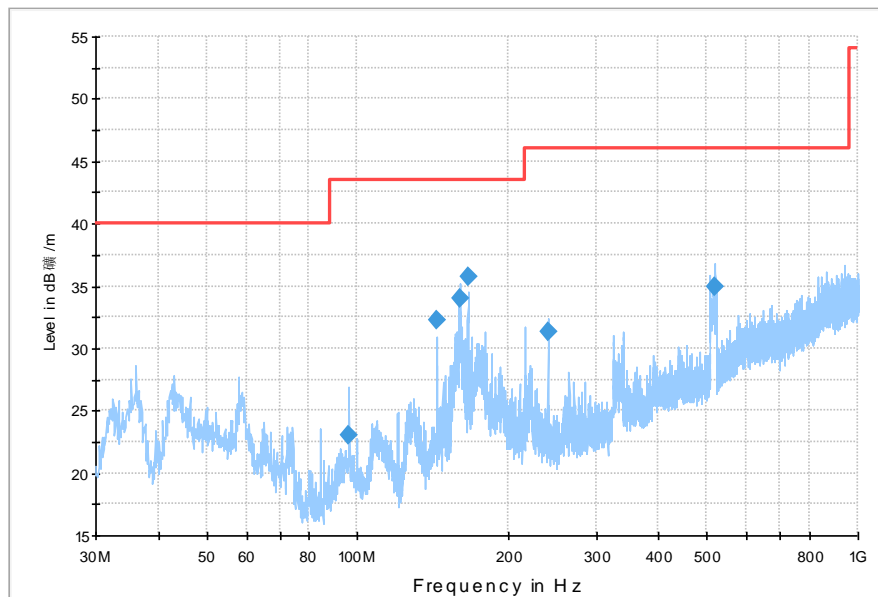


Figure A.7 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dB μV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dB μV/m)
96.251000	23.1	125.0	H	45.0	-3.6	20.4	43.5
143.97500	32.2	100.0	V	-4.0	-5.8	11.3	43.5
160.46500	34.0	120.0	H	17.0	-4.8	9.5	43.5
166.57600	35.7	125.0	H	32.0	-4.4	7.8	43.5
240.00500	31.3	100.0	H	3.0	-0.5	14.7	46.0
519.07400	35.0	100.0	V	45.0	6.5	11.0	46.0

15B RE - 1GHz-3GHz

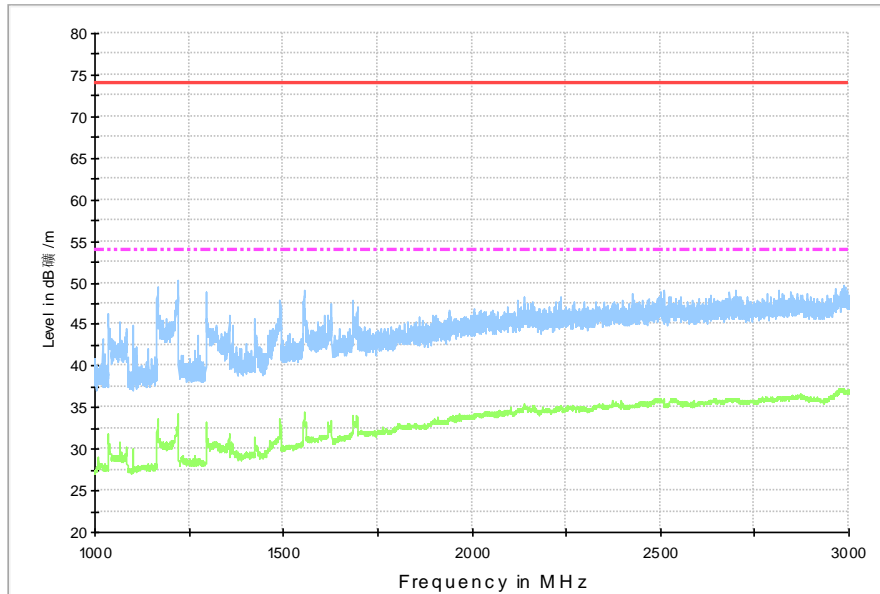


Figure A.8 Radiated Emission from 1GHz to 3GHz

RE - 3GHz-18GHz

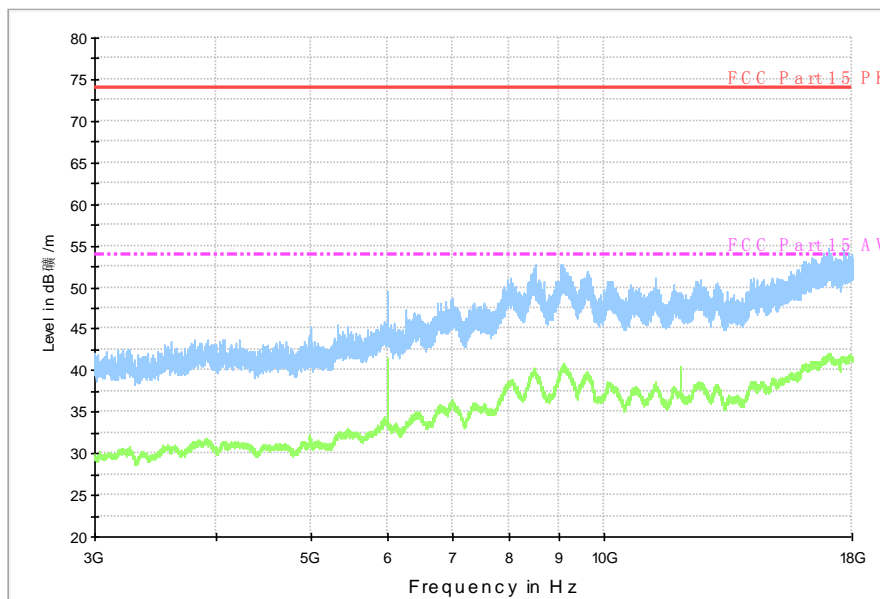


Figure A.9 Radiated Emission from 3GHz to 18GHz

Note: The measurement results showed here are worst cases of the combinations of different headsets.

License RX band mode, Set.1

GSM850MHz MID CHANNEL (869.2MHz)

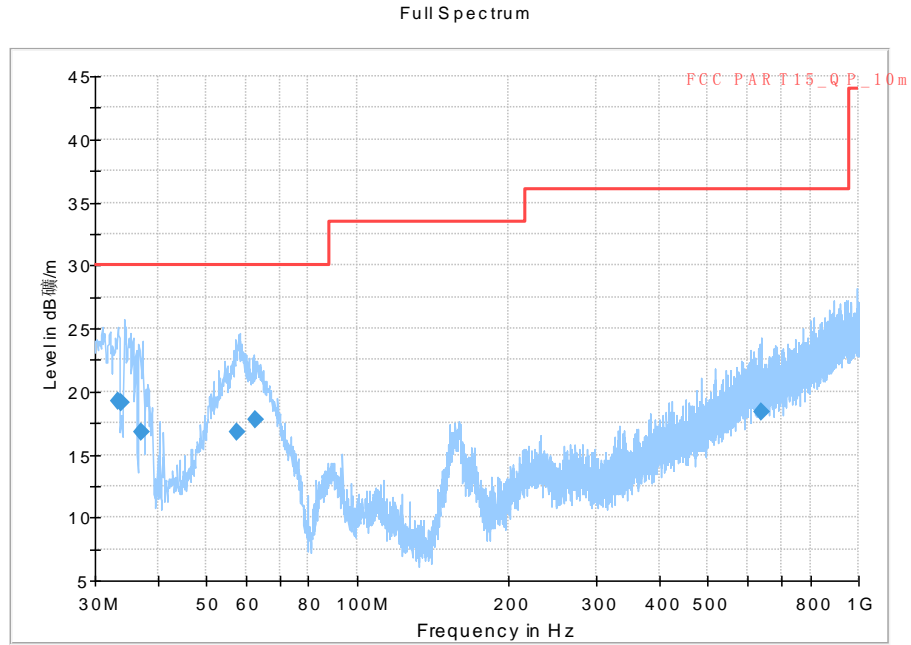


Figure A.10 Radiated Emission from 30MHz to 1GHz

Final_Result

Frequency (MHz)	QuasiPeak (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
33.418000	19.18	30.00	10.82	1000.0	120.000	121.0	V	85.0
33.825000	19.11	30.00	10.89	1000.0	120.000	101.0	V	3.0
37.095000	16.73	30.00	13.27	1000.0	120.000	225.0	V	120.0
57.747000	16.79	30.00	13.21	1000.0	120.000	225.0	V	-21.0
62.731000	17.71	30.00	12.29	1000.0	120.000	318.0	V	184.0
642.019000	18.33	36.00	17.69	1000.0	120.000	177.0	V	30.0

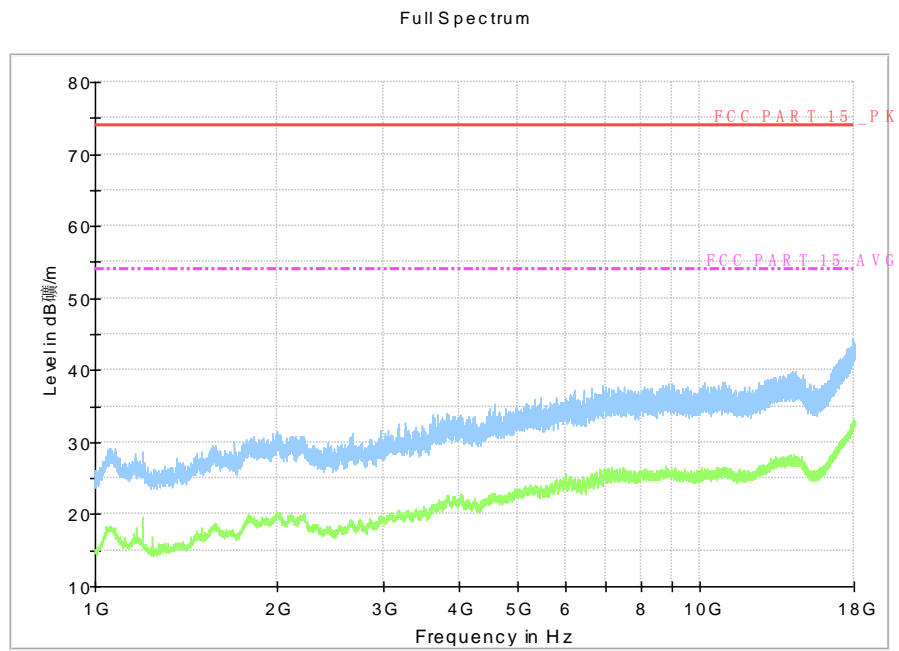


Figure A.11 Radiated Emission from 1GHz to 18GHz

License RX band mode, Set.2

WCDMA Band 5 MID CHANNEL (881.6MHz)

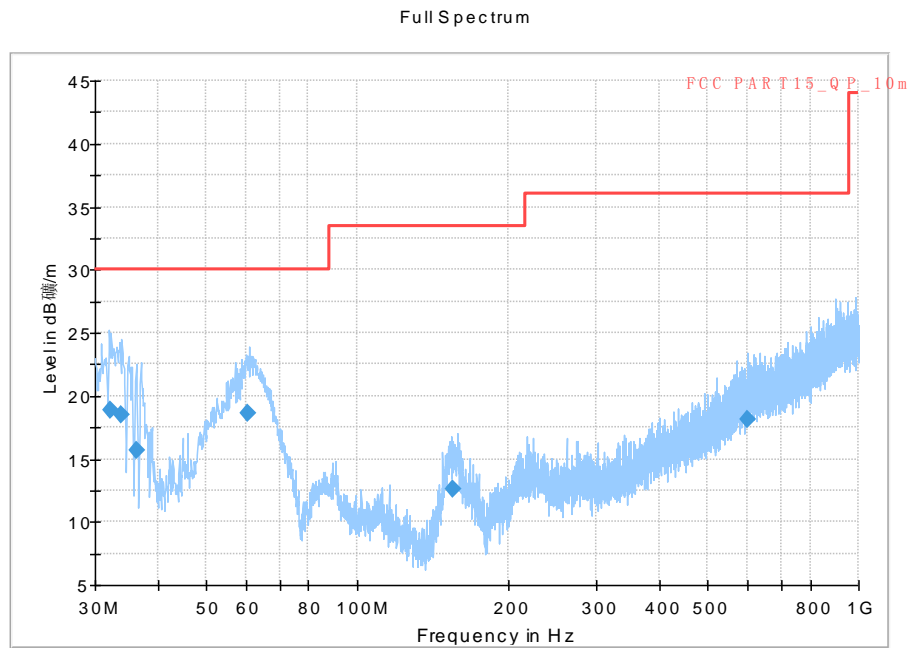


Figure A.19 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
32.097000	18.89	30.00	11.11	1000.0	120.000	102.0	V	22.0
33.760000	18.52	30.00	11.48	1000.0	120.000	106.0	V	94.0
36.444000	15.67	30.00	14.33	1000.0	120.000	281.0	V	87.0
60.606000	18.60	30.00	11.40	1000.0	120.000	118.0	V	-24.0
154.802000	12.60	33.50	20.92	1000.0	120.000	125.0	V	114.0
599.607000	18.07	36.00	17.95	1000.0	120.000	325.0	V	14.0

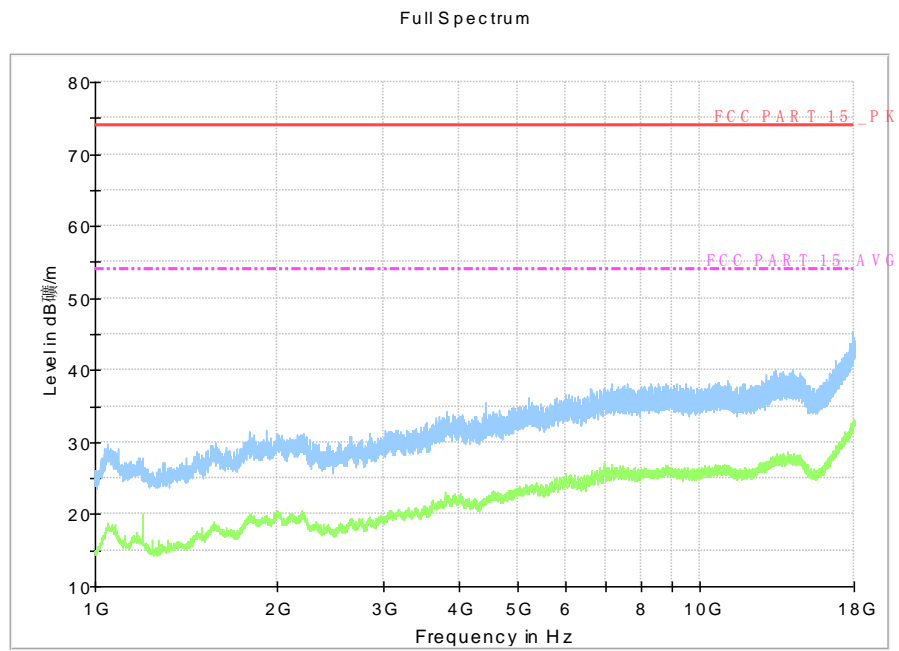


Figure A.20 Radiated Emission from 1GHz to 18GHz

License RX band mode, Set.3

LTE Band 5 MID CHANNEL (881.5MHz)

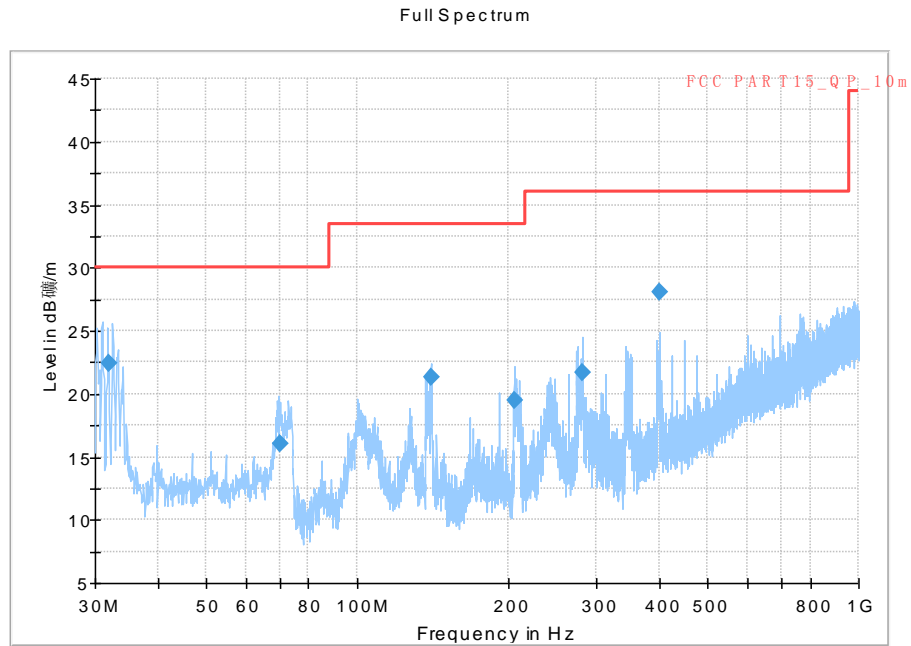


Figure A.28 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dB μV/m)	Limit (dB μV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
31.922000	22.41	30.00	7.59	1000.0	120.000	102.0	V	296.0
70.227000	16.02	30.00	13.98	1000.0	120.000	212.0	V	243.0
140.695000	21.28	33.50	12.24	1000.0	120.000	107.0	V	30.0
206.267000	19.50	33.50	14.02	1000.0	120.000	107.0	V	190.0
281.424000	21.74	36.00	14.28	1000.0	120.000	106.0	V	181.0
400.018000	28.04	36.00	7.98	1000.0	120.000	100.0	V	300.0

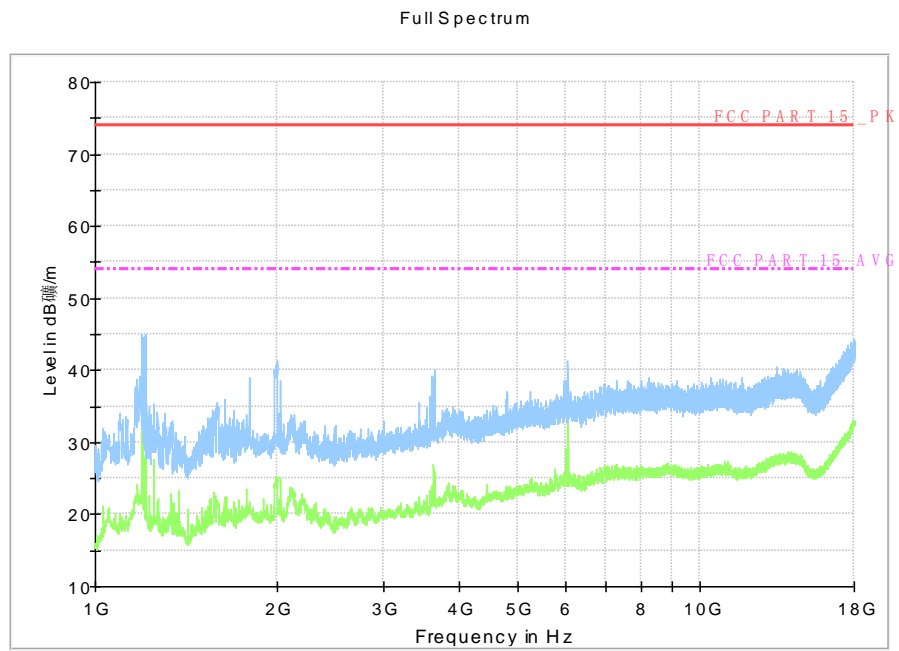


Figure A.29 Radiated Emission from 1GHz to 18GHz

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. During the charging mode the camera is keeping on taking photos. During the USB mode the FM application is started up. The model of the PC is Lenovo M4000e-17, and the serial number of the PC is M706RMW2. 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: $U= 3.10$ dB, $k=2$.

Charging Mode + FM, Set.1

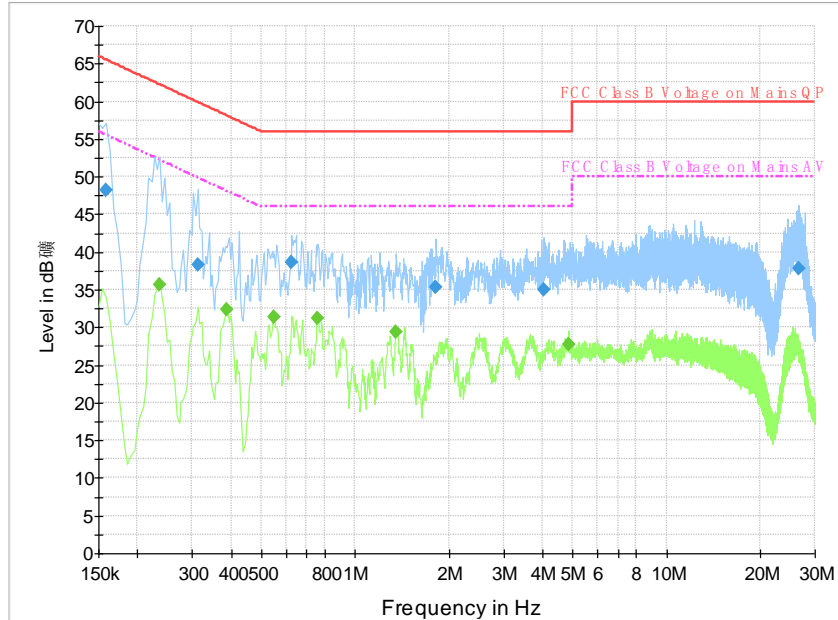


Figure A.43 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.159000	48.2	1000.0	9.000	On	L1	19.8	17.3	65.5
0.312000	38.3	1000.0	9.000	On	L1	19.8	21.6	59.9
0.627000	38.6	1000.0	9.000	On	L1	19.9	17.4	56.0
1.819500	35.3	1000.0	9.000	On	L1	19.8	20.7	56.0
4.042500	34.9	1000.0	9.000	On	L1	19.8	21.1	56.0
26.659500	37.8	1000.0	9.000	On	L1	20.2	22.2	60.0

Final Result 2

Frequency (MHz)	Average (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.235500	35.7	1000.0	9.000	On	N	19.9	16.6	52.3
0.388500	32.4	1000.0	9.000	On	N	19.9	15.7	48.1
0.550500	31.3	1000.0	9.000	On	N	19.9	14.7	46.0
0.757500	31.2	1000.0	9.000	On	N	19.9	14.8	46.0
1.356000	29.4	1000.0	9.000	On	N	19.8	16.6	46.0
4.857000	27.7	1000.0	9.000	On	N	19.8	18.3	46.0

Charging Mode + FM, Set.2

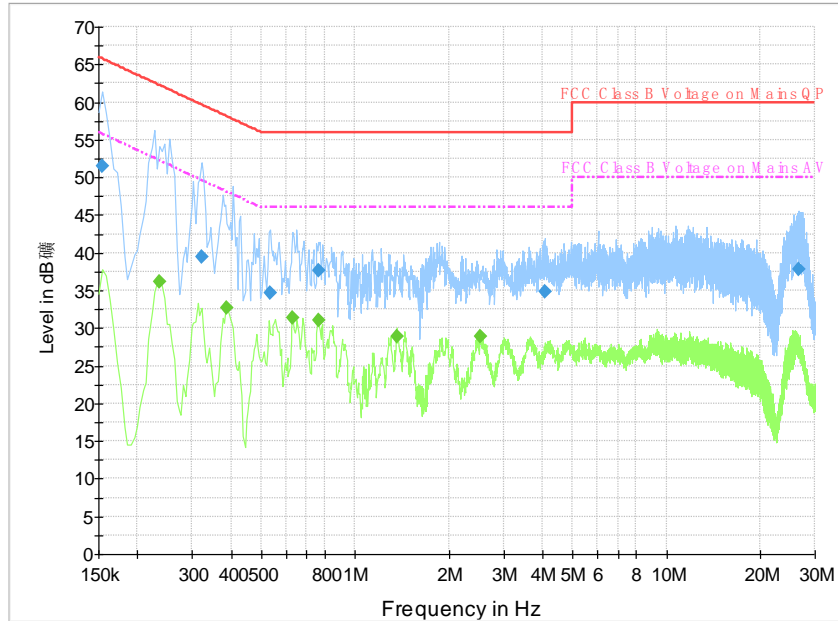


Figure A.43 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.154500	51.5	1000.0	9.000	On	N	20.0	14.2	65.8
0.321000	39.5	1000.0	9.000	On	N	19.9	20.2	59.7
0.532500	34.7	1000.0	9.000	On	L1	19.8	21.3	56.0
0.762000	37.6	1000.0	9.000	On	L1	19.8	18.4	56.0
4.074000	34.8	1000.0	9.000	On	L1	19.8	21.2	56.0
26.628000	37.8	1000.0	9.000	On	L1	20.2	22.2	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.235500	36.1	1000.0	9.000	On	N	19.9	16.2	52.3
0.388500	32.8	1000.0	9.000	On	N	19.9	15.3	48.1
0.631500	31.4	1000.0	9.000	On	N	19.9	14.6	46.0
0.762000	31.0	1000.0	9.000	On	N	19.9	15.0	46.0
1.365000	28.8	1000.0	9.000	On	N	19.8	17.2	46.0
2.517000	28.9	1000.0	9.000	On	N	19.8	17.1	46.0

.USB Mode +CAMERA, Set.3

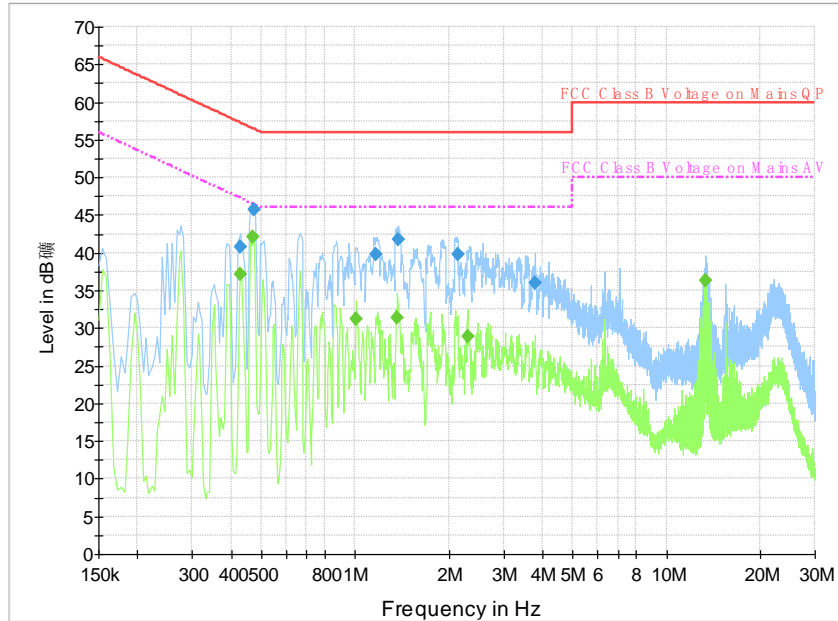


Figure A.44 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.429000	40.8	1000.0	9.000	On	L1	19.8	16.5	57.3
0.474000	45.7	1000.0	9.000	On	N	19.9	10.7	56.4
1.162500	39.8	1000.0	9.000	On	N	19.9	16.2	56.0
1.378500	41.7	1000.0	9.000	On	L1	19.8	14.3	56.0
2.134500	39.8	1000.0	9.000	On	L1	19.8	16.2	56.0
3.777000	35.9	1000.0	9.000	On	N	19.8	20.1	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.429000	37.1	1000.0	9.000	On	L1	19.8	10.2	47.3
0.469500	42.1	1000.0	9.000	On	N	19.9	4.4	46.5
1.009500	31.2	1000.0	9.000	On	L1	19.8	14.8	46.0
1.369500	31.4	1000.0	9.000	On	L1	19.8	14.6	46.0
2.296500	28.8	1000.0	9.000	On	N	19.8	17.2	46.0
13.389000	36.3	1000.0	9.000	On	L1	19.9	13.7	50.0

Note: The measurement results showed here are worst cases of the combinations of different headsets.



ANNEX B: Persons involved in this testing

Test Item	Tester
Radiated Emission	Yang Fei,Wang Huan
Conducted Emission	Yan Han Chen

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