



Part 15B TEST REPORT

No.I19Z62169-EMC01

for

TCL Communication Ltd.

Tablet

Model Name: 9009A

FCC ID: 2ACCJBT14

with

Hardware Version: V03

Software Version: J5L

Issued Date: 2019-12-07

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:

CTTL-Telecommunication Technology Labs, CAICT

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@caict.ac.cn, website: www.caict.ac.cn



REPORT HISTORY

Report Number	Revision	Description	Issue Date
I19Z62169-EMC01	Rev.0	1st edition	2019-12-07

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

CONTENTS

1. TEST LABORATORY	4
1.1. INTRODUCTION & ACCREDITATION.....	4
1.2. TESTING LOCATION	4
1.3. TESTING ENVIRONMENT	4
1.4. PROJECT DATA	4
1.5. 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	6
3.3. INTERNAL IDENTIFICATION OF AE	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
8. MEASUREMENT UNCERTAINTY	12
ANNEX A: DETAILED TEST RESULTS.....	13
ANNEX B: PERSONS INVOLVED IN THIS TESTING	32

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 (ISED#: 24849). 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 4: CTTL(BDA)

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

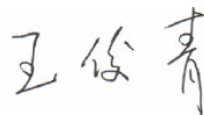
1.3. Testing Environment

Normal Temperature: 15-25°C
Extreme Temperature: -10/+55°C
Relative Humidity: 20-75%

1.4. Project data

Testing Start Date: 2018-09-20
Testing End Date: 2019-12-07

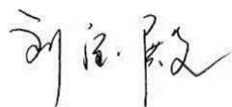
1.5. Signature



Wang Junqing
(Prepared this test report)



Zhang Ying
(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: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
City: Hong Kong
Postal Code: /
Country: China
Contact: Gong Zhizhou
Email: zhizhou.gong@tcl.com
Telephone: 0086-755-36611722
Fax: /

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
City: Hong Kong
Postal Code: /
Country: China
Contact: Gong Zhizhou
Email: zhizhou.gong@tcl.com
Telephone: 0086-755-36611722
Fax: /

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

3.1. About EUT

Description	Tablet
Model Name	9009A
FCC ID	2ACCJBT14
Extreme vol. Limits	3.4VDC to 4.4VDC (nominal: 3.9VDC)

Note: Photographs of EUT are shown in ANNEX A of this test report.

3.2. Internal Identification of EUT

EUT ID*	SN or IMEI	HW Version	SW Version
EUT6	/	V03	J5L
EUT7	35602340008761	V03	J5L

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

3.3. Internal Identification of AE

AE ID*	Description	SN	Remarks
AE2	Battery	/	inbuilt
AE7	Charger	/	/
AE8	Charger	/	/
AE9	USB Cable	/	/
AE10	USB Cable	/	/
AE11	HeadSet	/	/
AE12	HeadSet	/	/
AE13	USB Cable	/	/

AE2

Model	CAC2580038C7
Manufacturer	VEKEN
Capacitance	2580mAh
Nominal voltage	3.8V

AE7

Model	CBA0058AGAC5
Manufacturer	PUAN
Length of cable	/

AE8

Model	CBA0058AGAC7
Manufacturer	CHENGYANG
Length of cable	/

AE9

Model	CDA3122005C1
Manufacturer	JUWEI
Length of cable	/

AE10

Model	CDA3122005C8
Manufacturer	PUAN
Length of cable	/

AE11

Model	CCB0046A15C1
Manufacturer	JUWEI
Length of cable	/

AE12

Model	CCB0046A15C4
Manufacturer	MEIHAO
Length of cable	/

AE13

Model	CDA312200GC2
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.11	EUT6 + AE2 + AE7+ AE9/AE10	Charger
Set.12	EUT6 + AE2 + AE8+ AE9/AE10	Charger
Set.13	EUT6 + AE2 + AE9/AE10	USB mode
Set.15	EUT7 + AE2 + AE13 + AE11	USB mode + FM
Set.16	EUT7 + AE2 + AE13 + AE12	USB mode + FM

Note: Tablet 9009A manufactured by TCL Communication Ltd is a variant model based on 9009G for conformance test. According to the declaration of changes, the following test items and test modes were performed:

Test Item	Mode or Feature	EUT Set-up
Radiated Continuous Emission	USB mode + FM	Set.15
	USB mode + FM	Set.16
Conducted Continuous Emission	USB mode + FM	Set.15
	USB mode + FM	Set.16

Other results are inherited from the initial model. The report number of initial model is I18Z61602-EMC04.

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

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 M
Ground system resistance	< 4
Normalised site attenuation (NSA)	< ± 4 dB, 10m distance, from 30 to 1000 Hz
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. = 30 °C
Relative humidity	Min. = 35 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 2M
Ground system resistance	< 1
Normalised site attenuation (NSA)	< ±4 dB, 3 m 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)
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	ESU26	100235	R&S	2020-02-27	1 year
2	EMI Antenna	VULB 9163	9163-302	Schwarzbeck	2020-02-27	1 year
3	EMI Antenna	VULB 9163	9163-1222	Schwarzbeck	2020-03-14	1 year
4	EMI Antenna	3115	00167250	ETS-Lindgren	2020-05-14	1 year
5	EMI Antenna	3115	6914	ETS-Lindgren	2020-02-03	1 year
6	Test Receiver	ESCI 7	100344	R&S	2020-02-14	1 year
7	LISN	ENV216	101200	R&S	2020-03-14	1 year
8	Universal Radio Communication Tester	CMW500	116588	R&S	2019-12-26	1 year
9	PC	OPTIPLEX 380	2X1YV2X	DELL	N/A	N/A
10	Printer	P1606dn	VNC3L52122	HP	N/A	N/A
11	Keyboard	L100	CN0RH6596589 07ATOI40	DELL	N/A	N/A
12	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

8. Measurement Uncertainty

Test Item	Measurement uncertainty
Radiated Emission	Measurement uncertainty (worst case): $U = 5.12\text{dB}$, $k=2$.
Conducted Emission	Measurement uncertainty: $U = 3.08\text{dB}$, $k=2$.

ANNEX A: Detailed Test 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 and running FM function 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:

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

Where

G_A : Antenna factor of receive antenna

G_{PL} : Path Loss

P_{Mea} : Measurement result on receiver.

Measurement results for Set.11:

Charging Mode/Average detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Antenna Pol. (H/V)
17966.000	40.1	-5.4	43.4	2.116	H
17959.200	39.9	-5.4	43.4	1.916	H
17976.200	39.9	-5.4	43.4	1.916	V
17952.400	39.9	-5.4	43.4	1.916	H
17950.133	39.8	-5.4	43.4	1.816	H
17960.900	39.8	-5.4	43.4	1.816	H

Charging Mode/QP detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Antenna Pol. (H/V)
874.676	27.0	-17.8	21.5	23.253	H
942.576	26.9	-17.3	22.0	22.197	H
866.722	26.9	-18.3	21.5	23.653	V
866.625	26.6	-18.3	21.5	23.353	H
950.045	26.5	-17.3	22.0	21.797	H
862.939	26.3	-18.3	21.5	23.053	H

Note: The measurement results of Set.11 showed here are worst cases of the combinations of different USB cables.

Measurement results for Set.12:
Charging Mode/Average detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Antenna Pol. (H/V)
17952.967	39.9	-5.4	43.4	1.916	H
17956.367	39.8	-5.4	43.4	1.816	H
17966.000	39.8	-5.4	43.4	1.816	V
17977.900	39.8	-5.4	43.4	1.816	H
17972.233	39.8	-5.4	43.4	1.816	H
17942.200	39.7	-5.4	43.4	1.716	H

Charging Mode/QP detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Antenna Pol. (H/V)
910.566	26.7	-17.8	21.7	22.753	H
953.537	26.5	-17.3	22.0	21.797	H
864.200	26.4	-18.3	21.5	23.153	V
957.611	26.4	-17.3	22.0	21.697	H
911.633	26.2	-17.8	21.7	22.253	H
955.283	26.2	-17.3	22.0	21.497	H

Note: The measurement results of Set.12 showed here are worst cases of the combinations of different USB cables.

Measurement results for Set.13:
USB Mode/Average detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Antenna Pol. (H/V)
17968.833	40.4	-5.4	43.4	2.416	H
17996.600	40.2	-5.4	43.4	2.216	H
17977.333	40.1	-5.4	43.4	2.116	V
17960.900	40.1	-5.4	43.4	2.116	H
17966.567	40.1	-5.4	43.4	2.116	H
17954.667	40.0	-5.4	43.4	2.016	H

USB Mode/ QP detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Antenna Pol. (H/V)
953.149	26.5	-17.3	22.0	21.797	H
940.636	26.5	-17.3	22.0	21.797	H
882.145	26.5	-17.8	21.5	22.753	V
810.365	26.4	-18.6	20.6	24.439	H
948.590	26.2	-17.3	22.0	21.497	H
955.671	26.2	-17.3	22.0	21.497	H

Note: The measurement results of Set.13 showed here are worst cases of the combinations of different USB cables.

Measurement results for Set.15:
USB + FM Mode/Average detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Antenna Pol. (H/V)
4959.300	54.8	-37.2	32.3	59.701	H
6054.100	47.6	-36.1	34.4	49.341	H
17821.500	46.6	-25.7	43.4	28.942	V
17952.967	46.6	-25.5	43.4	28.702	H
17962.600	46.6	-25.5	43.4	28.702	H
17938.800	46.5	-25.5	43.4	28.602	H

USB + FM Mode/Peak detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Antenna Pol. (H/V)
4959.300	60.4	-37.2	32.3	65.301	H
4959.867	59.9	-37.2	32.3	64.801	H
17809.600	58.5	-25.7	43.4	40.842	V
17974.500	58.1	-25.5	43.4	40.202	H
17381.767	58.0	-26.6	40.1	44.501	H
17786.367	58.0	-25.7	43.4	40.342	H

Note: The measurement results of Set.15 showed here are worst cases of the combinations of different USB cables.

Measurement results for Set.16:
USB + FM Mode/Average detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Antenna Pol. (H/V)
4959.300	60.4	-37.2	32.3	65.301	H
4959.867	59.9	-37.2	32.3	64.801	H
17809.600	58.5	-25.7	43.4	40.842	V
17974.500	58.1	-25.5	43.4	40.202	H
17381.767	58.0	-26.6	40.1	44.501	H
17786.367	58.0	-25.7	43.4	40.342	H

USB + FM Mode/Peak detector

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Antenna Pol. (H/V)
17615.233	58.5	-26.9	43.4	41.952	H
17820.367	58.4	-25.7	43.4	40.742	H
17505.867	58.3	-25.9	43.4	40.845	V
17376.100	58.2	-26.6	40.1	44.701	H
17820.933	58.1	-25.7	43.4	40.442	H
17965.433	57.9	-25.5	43.4	40.002	H

Note: The measurement results of Set.16 showed here are worst cases of the combinations of different USB cables.

Charging Mode, Set.11

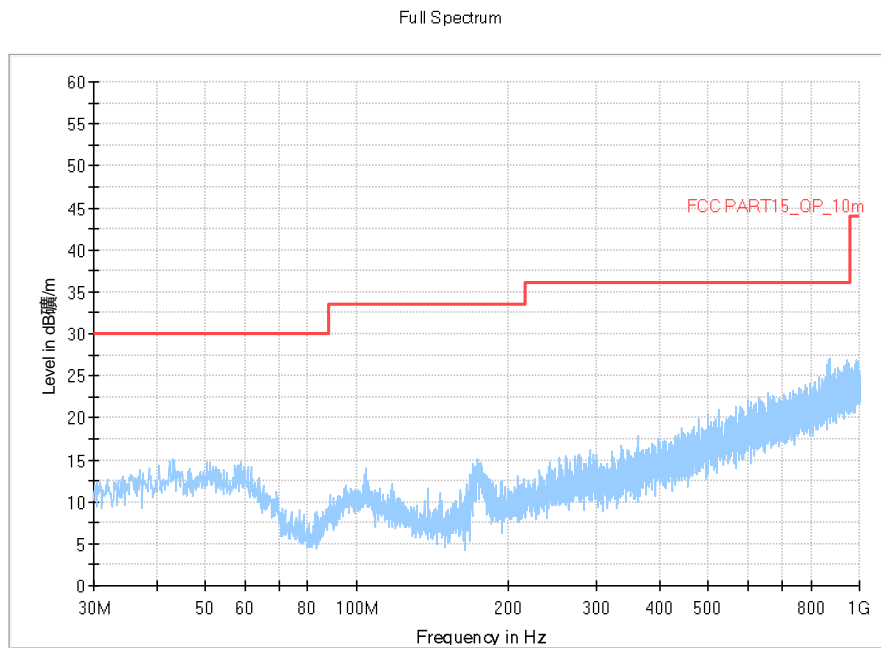


Fig A.1 Radiated Emission from 30MHz to 1GHz

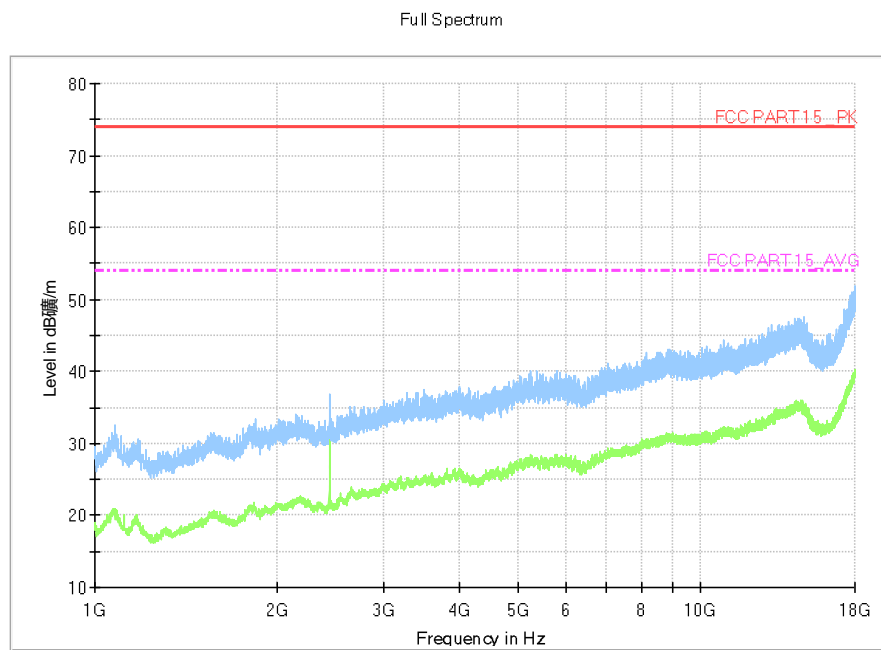


Fig A.2 Radiated Emission from 1GHz to 18GHz

Charging Mode, Set.12

Full Spectrum

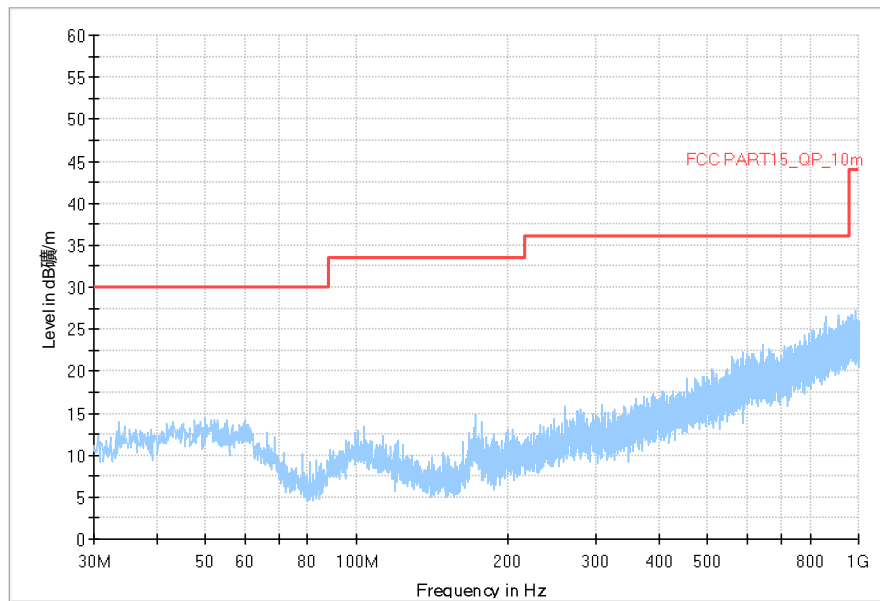


Fig A.3 Radiated Emission from 30MHz to 1GHz

Full Spectrum

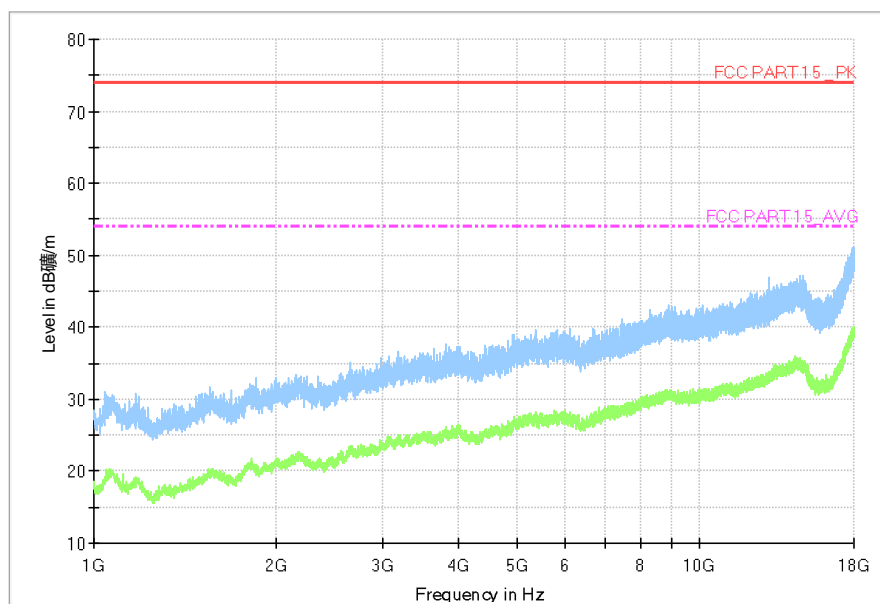


Fig A.4 Radiated Emission from 1GHz to 18GHz

USB Mode, Set.13

Full Spectrum

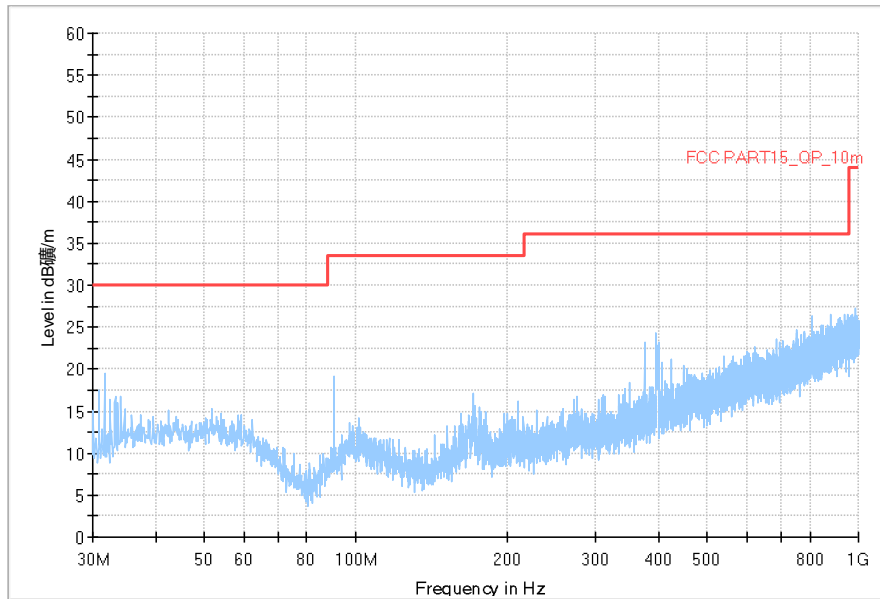


Fig A.5 Radiated Emission from 30MHz to 1GHz

Full Spectrum

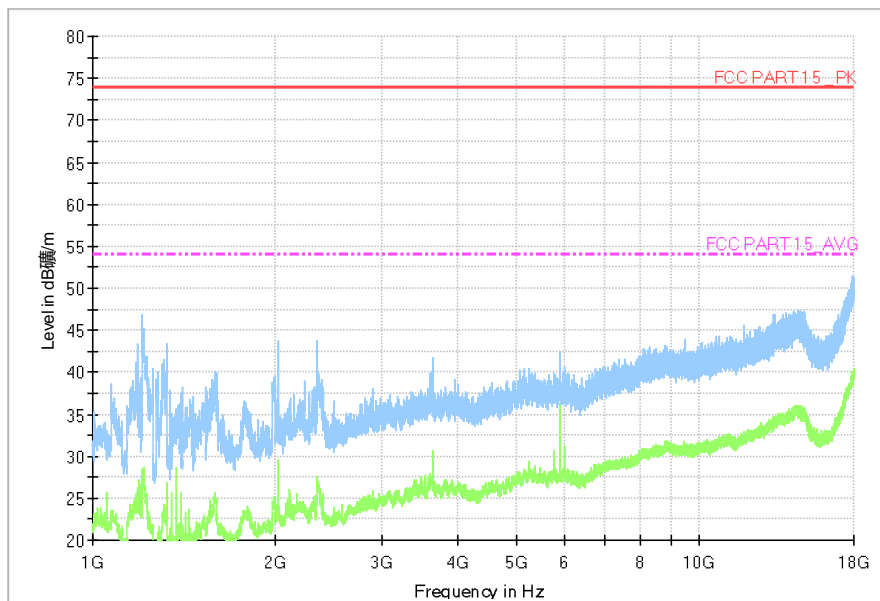
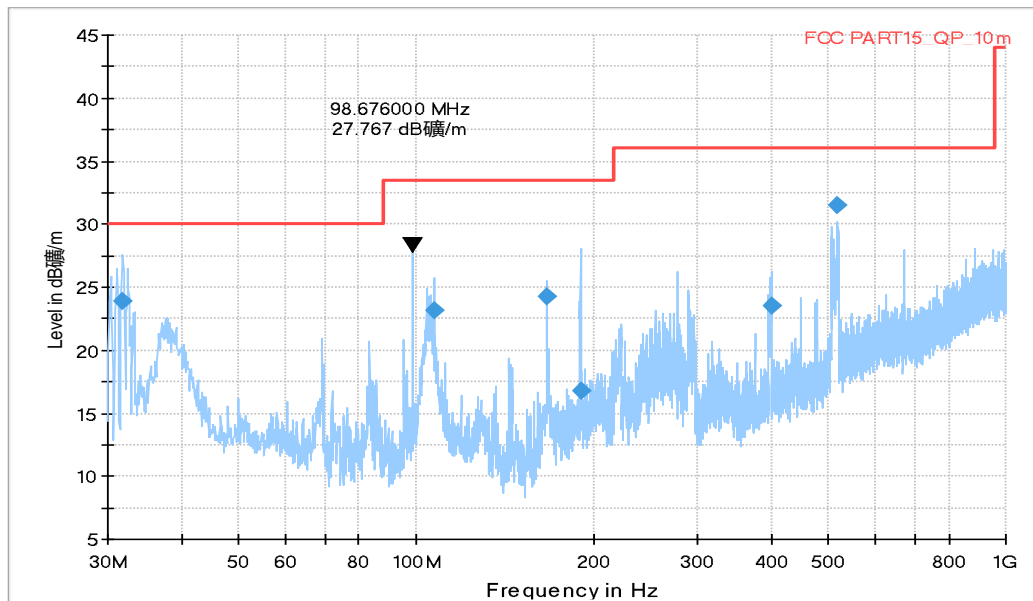


Fig A.6 Radiated Emission from 1GHz to 18GHz

USB + FM Mode, Set.15

Full Spectrum


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

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
31.843000	23.92	30.00	6.08	320.0	V	157.0
107.092000	23.12	33.50	10.40	113.0	V	84.0
167.019000	24.21	33.50	9.31	125.0	V	-12.0
189.953000	16.80	33.50	22.72	184.0	V	-12.0
399.741000	23.54	36.00	12.48	194.0	V	96.0
518.829000	31.55	36.00	4.47	291.0	V	-17.0

Full Spectrum

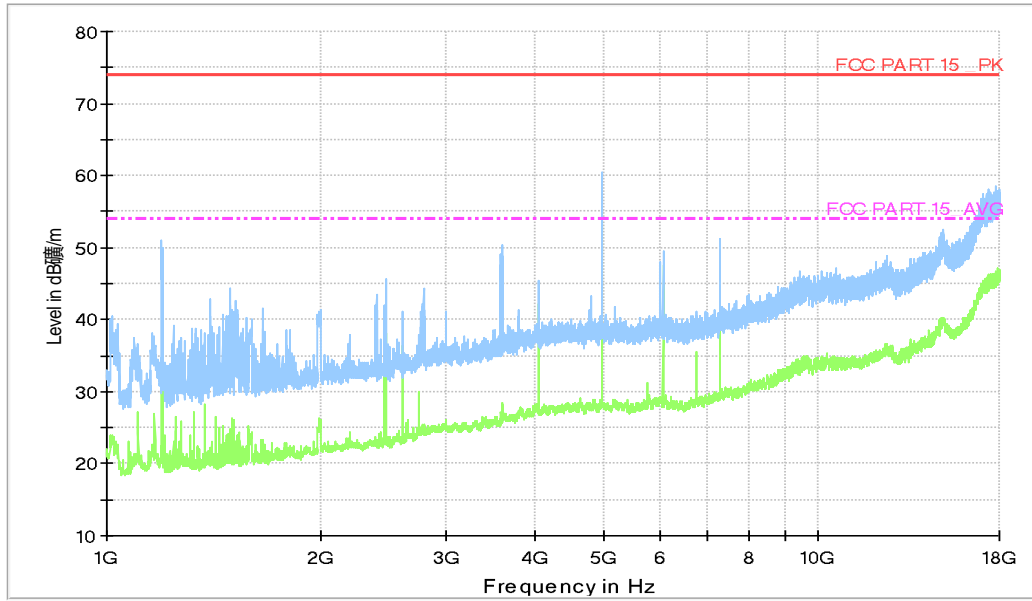
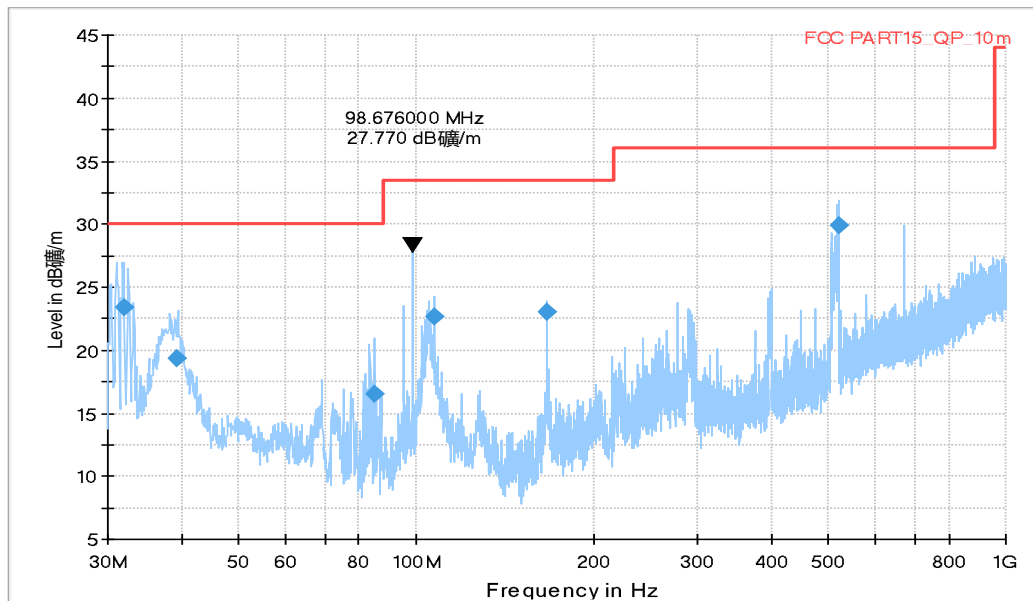


Fig A.8 Radiated Emission from 1GHz to 18GHz

USB + FM Mode, Set.16

Full Spectrum


Fig A.9 Radiated Emission from 30MHz to 1GHz
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
31.866000	23.43	30.00	6.57	175.0	V	150.0
39.229000	19.31	30.00	10.69	204.0	V	-13.0
84.939000	16.58	30.00	13.42	180.0	V	201.0
107.249000	22.63	33.50	10.89	125.0	V	80.0
166.844000	23.07	33.50	10.45	117.0	V	-19.0
519.370000	29.88	36.00	6.14	286.0	V	-25.0

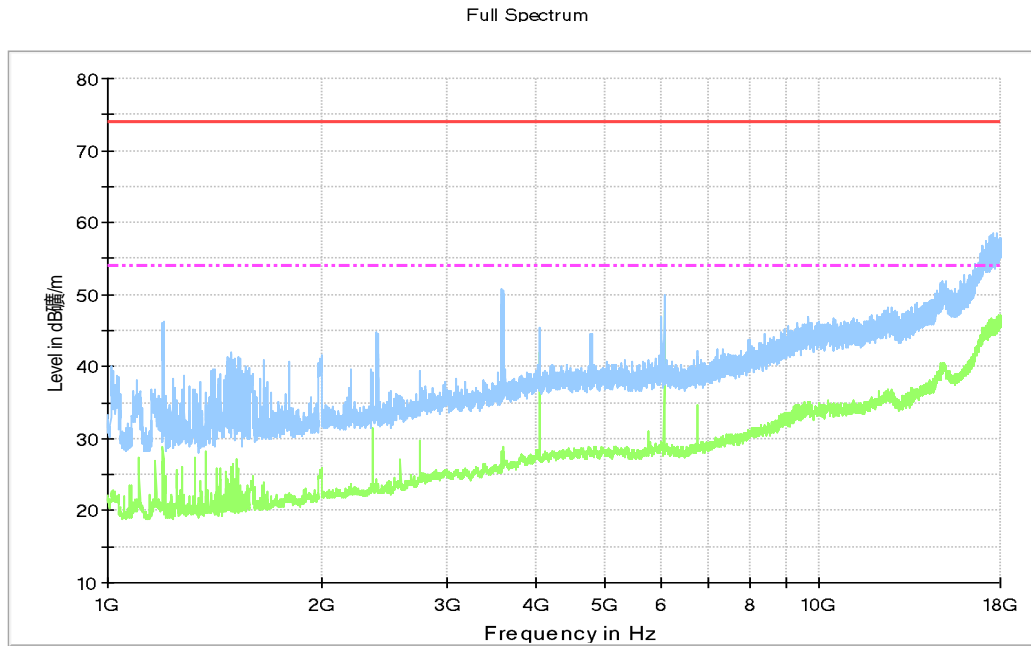


Fig A.10 Radiated Emission from 1GHz to 18GHz

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 and running the FM function 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

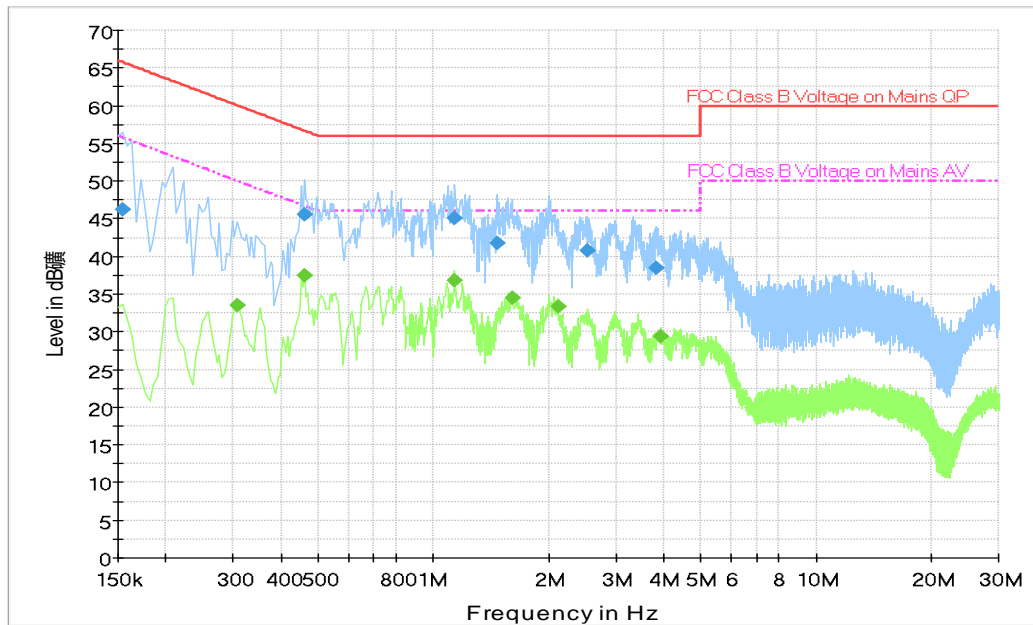
Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*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

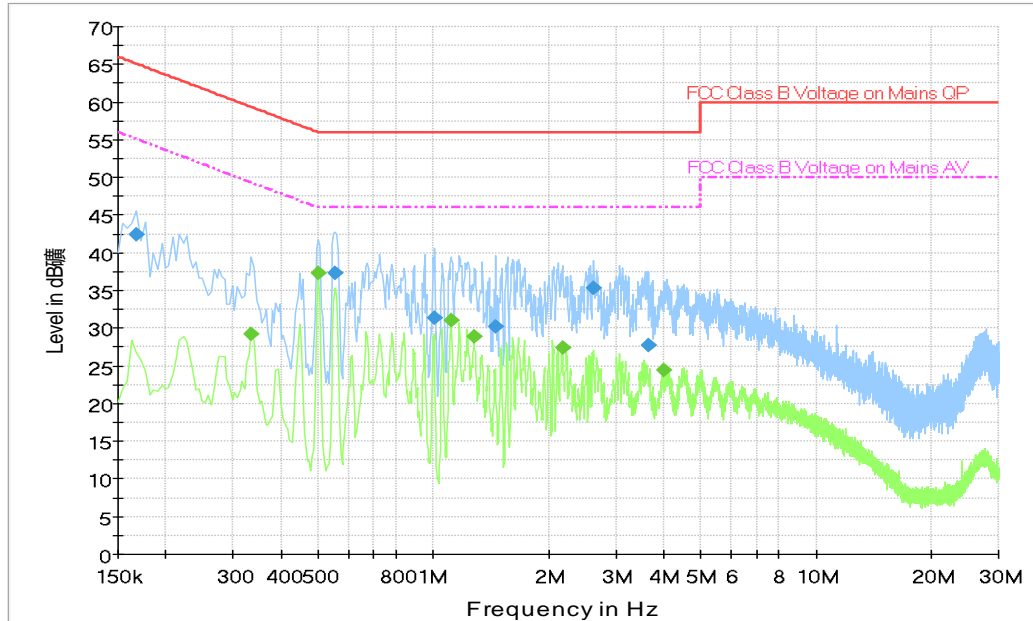
Charging Mode, Set.11

Fig A.11 Conducted Emission
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Line	Margin (dB)	Limit (dBµV)
0.154500	46.2	L1	19.6	65.8
0.460500	45.6	L1	11.1	56.7
1.140000	45.0	L1	11.0	56.0
1.464000	41.8	L1	14.2	56.0
2.530500	40.8	L1	15.2	56.0
3.826500	38.4	L1	17.6	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Line	Margin (dB)	Limit (dBµV)
0.307500	33.5	L1	16.5	50.0
0.460500	37.5	L1	9.2	46.7
1.140000	36.8	L1	9.2	46.0
1.603500	34.4	L1	11.6	46.0
2.125500	33.3	L1	12.7	46.0
3.934500	29.4	L1	16.6	46.0

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

Charging Mode, Set.12

Fig A.12 Conducted Emission
Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Line	Margin (dB)	Limit (dBμV)
0.168000	42.4	N	22.7	65.1
0.555000	37.3	N	18.7	56.0
1.009500	31.4	N	24.6	56.0
1.455000	30.2	N	25.8	56.0
2.620500	35.3	L1	20.7	56.0
3.642000	27.7	N	28.3	56.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Line	Margin (dB)	Limit (dBμV)
0.334500	29.2	L1	20.2	49.3
0.501000	37.4	L1	8.6	46.0
1.113000	31.1	L1	14.9	46.0
1.279500	28.9	L1	17.1	46.0
2.175000	27.4	L1	18.6	46.0
4.020000	24.4	L1	21.6	46.0

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

USB Mode, Set.13

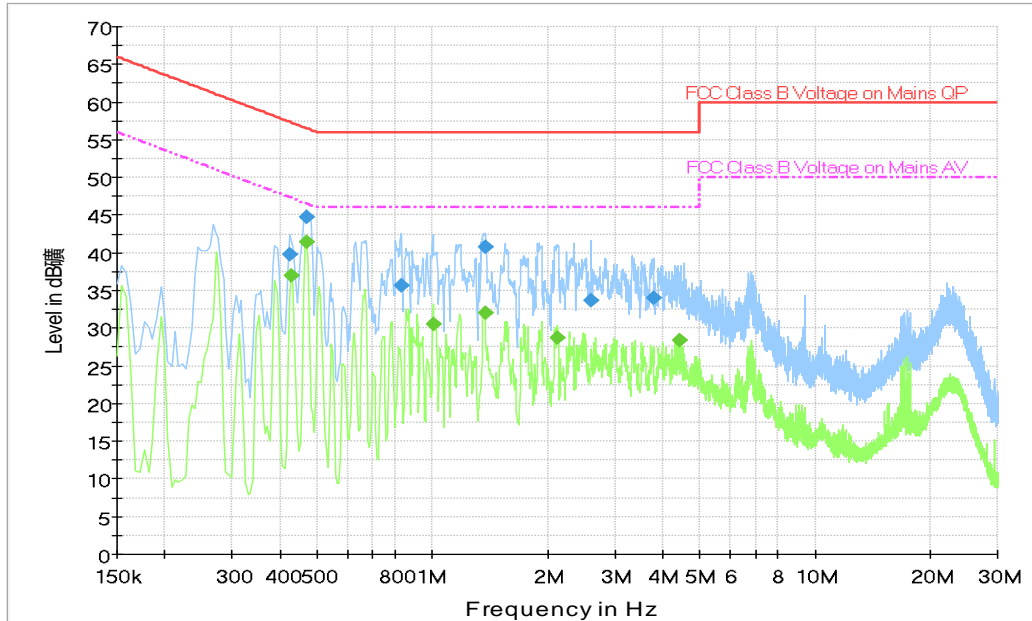


Fig A.13 Conducted Emission

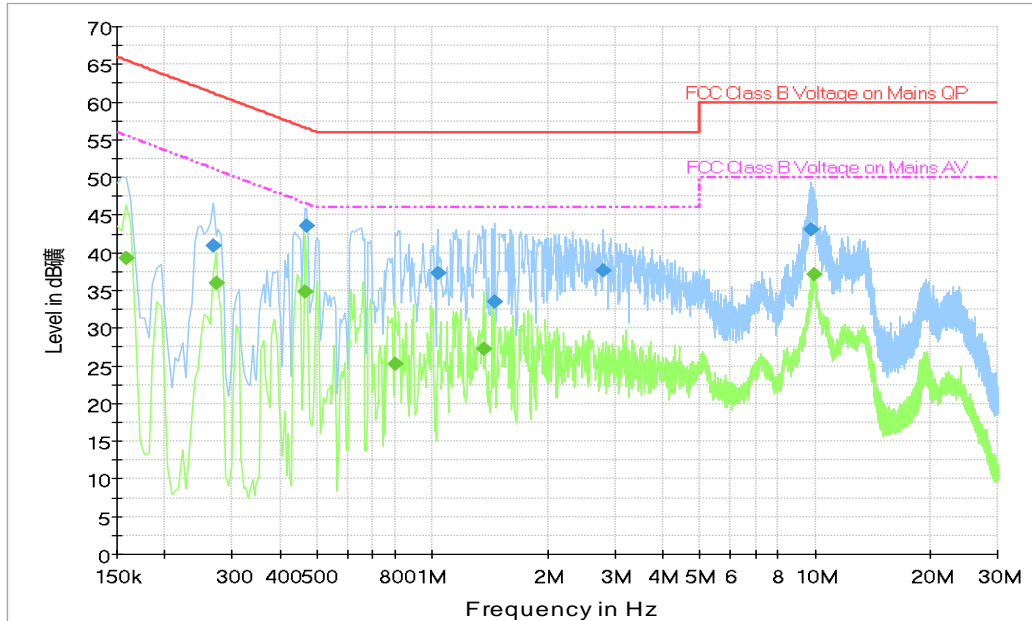
Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Line	Margin (dB)	Limit (dBμV)
0.424500	39.9	L1	17.5	57.4
0.469500	44.7	N	11.8	56.5
0.829500	35.7	L1	20.3	56.0
1.383000	40.8	L1	15.2	56.0
2.602500	33.6	N	22.4	56.0
3.795000	34.0	N	22.0	56.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Line	Margin (dB)	Limit (dBμV)
0.429000	37.0	L1	10.3	47.3
0.469500	41.5	L1	5.0	46.5
1.005000	30.6	L1	15.4	46.0
1.378500	32.1	L1	13.9	46.0
2.130000	28.8	N	17.2	46.0
4.425000	28.4	N	17.6	46.0

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

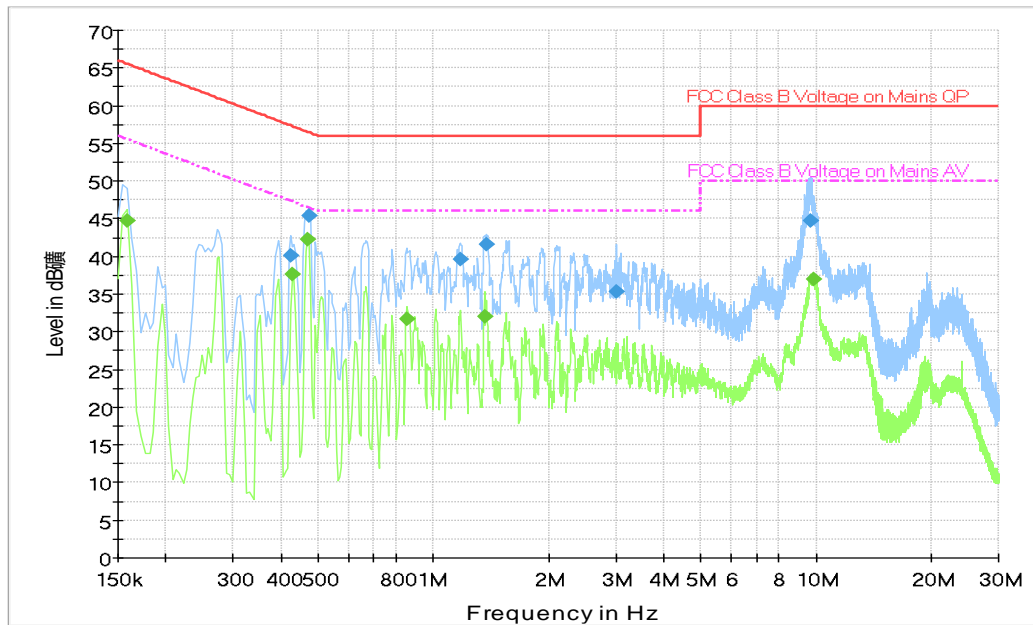
USB + FM Mode, Set.15

Fig A.14 Conducted Emission
Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Line	Margin (dB)	Limit (dBμV)
0.267000	40.9	L1	20.3	61.2
0.469500	43.6	L1	12.9	56.5
1.032000	37.3	N	18.7	56.0
1.455000	33.5	L1	22.5	56.0
2.787000	37.6	N	18.4	56.0
9.802500	43.1	N	16.9	60.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Line	Margin (dB)	Limit (dBμV)
0.159000	39.3	L1	16.2	55.5
0.271500	35.9	N	15.1	51.1
0.465000	34.9	L1	11.7	46.6
0.798000	25.3	N	20.7	46.0
1.360500	27.2	N	18.8	46.0
9.915000	37.1	N	12.9	50.0

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

USB + FM Mode, Set.16

Fig A.15 Conducted Emission
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Line	Margin (dB)	Limit (dBµV)
0.424500	40.2	L1	17.2	57.4
0.474000	45.3	L1	11.1	56.4
1.176000	39.6	N	16.4	56.0
1.378500	41.6	L1	14.4	56.0
3.012000	35.3	N	20.7	56.0
9.703500	44.8	L1	15.2	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Line	Margin (dB)	Limit (dBµV)
0.159000	44.8	L1	10.7	55.5
0.429000	37.6	L1	9.6	47.3
0.469500	42.3	L1	4.3	46.5
0.852000	31.7	N	14.3	46.0
1.360500	32.0	N	14.0	46.0
9.874500	37.0	N	13.0	50.0

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

**ANNEX B: Persons involved in this testing**

Test Item	Test operator
Conducted Emission	Shi Suolan, Wang Huan
Radiated Emission	Shi Suolan, Yan Hanchen

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