FCC PART 15B
TEST REPORT

No. I21Z62812-EMC01

for

HMD Global Oy

GSM/WCDMA/LTE phone

Model name: N139DL

FCC ID: 2AJOTTA-1451

with

Hardware Version: 2.0

Software Version: 00.2151.12.01

Issued Date: 2022-02-10

Note:

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I21Z62812-EMC01	Rev.0	1st edition	2022-02-10

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

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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: 2022-01-13

Testing End Date: 2022-01-30

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

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2.2. Manufacturer Information

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

3.1. About EUT

Description	GSM/WCDMA/LTE phone
Model Name	N139DL
FCC ID:	2AJOTTA-1451

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	358712910023744	2.0	00.2151.12.01

*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	TRAVEL CHARGER	/	/
AE2	USB cable	/	/
AE3	battery	/	/
AE4	HEADSET	/	/

AE1

Model	DSA-5PF18-05 FUS 050100
Manufacturer	DVE
Length of cable	/

AE2

Model	/
Manufacturer	/
Length of cable	/

AE3

Model	HE402
Manufacturer	SHENZHEN UTILITY ENERGY CO., LTD.
Length of cable	/

AE4

Model	WH-108
Manufacturer	Rongtaifeng
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+ AE3	Charger1 + REAR Camera + GSM 850 idle
Set.2	EUT1 + AE1 +AE2+ AE3	Charger2 + MP4 + WCDMA 850 idle
Set.3	EUT1 + AE2 + AE3+ AE4	USB + front camera +LTE B5 idle

Note:

Equipment Under Test (EUT) is a model of GSM/UMTS/LTE Mobile phone with integrated antenna.

It supports

GSM Frequency Band GSM 900/GSM 1800/GSM 1900/GSM 850

UMTS Frequency Band FDD Band II(W1900) /FDD Band IV(W1700)/FDD Band V(W850)

LTE Frequency Band LTE FDD Bands 2/4/5/7/12/13/17/66/71, LTE FDD Bands 41.

It has MP3, Camera, USB memory, Bluetooth 5.0, Wi-Fi (802.11b/g/n, 802.11n supports 20MHzbandwidth) , GPS and GLONASS functions

The device contains receivers which tune and operate between 30MHz-960MHz in the following bands: GSM850, WCDMA850, LTE Band 5/12/13/17/71. All licensed band receivers that tune in the range of 30MHz-960MHz are investigated. Only the worst-case emissions are reported.

I21Z62812 is a variant model based on I21Z61291 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
Conducted Continuous Emission	Charging/USB	Set.1/Set.2/Set.3
Radiated Continuous Emission	Charging/USB	Set.1/Set.2/Set.3

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	ESU26	100235	R&S	2022-02-23	1 Year
2	LISN	ENV216	101200	R&S	2022-05-30	1 year
3	Universal Radio Communication Tester	CMW500	116588	R&S	2022-12-20	1 year
4	Test Receiver	ESCI 7	100344	R&S	2022-02-23	1 Year
5	EMI Antenna	VULB 9163	01223	Schwarzbeck	2022-03-22	1 year
6	EMI Antenna	3115	6914	ETS-Lindgren	2022-02-03	1 year
7	Signal Generator	SMBV100A	260613	R&S	2023-01-09	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/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:

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:

Charing 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)
17991.840	44.2	-29.1	46.7	26.6	54.0	9.8	V
17980.280	44.0	-29.1	46.7	26.4	54.0	10.0	H
17984.700	43.8	-29.1	46.7	26.2	54.0	10.2	H
17940.500	43.8	-28.9	46.7	26.1	54.0	10.2	H
17956.140	43.8	-28.9	46.7	26.1	54.0	10.2	H
17955.460	43.7	-28.9	46.7	26.0	54.0	10.3	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)
17891.880	55.7	-29.5	46.0	39.3	74.0	18.3	V
17950.360	55.7	-28.9	46.7	38.0	74.0	18.3	H
17998.640	55.4	-29.1	46.7	37.8	74.0	18.6	H
17950.020	55.1	-28.9	46.7	37.4	74.0	18.9	H
17960.220	55.1	-29.1	46.7	37.5	74.0	18.9	V
17954.780	55.0	-28.9	46.7	37.3	74.0	19.0	H

Measurement results for Set.2:

Charing 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)
17925.200	44.1	-29.4	46.7	26.8	54.0	9.9	H
17976.540	43.8	-29.1	46.7	26.2	54.0	10.2	H
17973.480	43.7	-29.1	46.7	26.1	54.0	10.3	V
17957.840	43.7	-28.9	46.7	26.0	54.0	10.3	H
17968.720	43.7	-29.1	46.7	26.1	54.0	10.3	V
17944.920	43.7	-28.9	46.7	26.0	54.0	10.3	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)
17787.5	56.0	-29.9	46.0	39.9	74.0	18.0	H
17926.9	55.5	-29.4	46.7	38.2	74.0	18.5	V
17408.1	55.4	-29.4	44.4	40.5	74.0	18.6	H
17976.5	55.2	-29.1	46.7	37.6	74.0	18.8	V
17968.7	55.2	-29.1	46.7	37.6	74.0	18.8	H
17936.4	55.2	-29.4	46.7	37.9	74.0	18.8	H

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)
17939.480	44.0	-29.4	46.7	26.7	54.0	10.0	H
17972.800	44.0	-29.1	46.7	26.4	54.0	10.0	H
17942.880	43.9	-28.9	46.7	26.2	54.0	10.1	H
17942.540	43.9	-28.9	46.7	26.2	54.0	10.1	H
17951.380	43.8	-28.9	46.7	26.1	54.0	10.2	V
17965.320	43.8	-29.1	46.7	26.2	54.0	10.2	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)
17962.940	55.9	-29.1	46.7	38.3	74.0	18.1	V
17972.800	55.4	-29.1	46.7	37.8	74.0	18.6	V
17917.720	55.3	-29.3	46.7	38.0	74.0	18.7	H
17978.240	55.3	-29.1	46.7	37.7	74.0	18.7	V
17991.840	55.2	-29.1	46.7	37.6	74.0	18.8	H
17968.040	55.1	-29.1	46.7	37.5	74.0	18.9	H

Measurement results for Set.1:

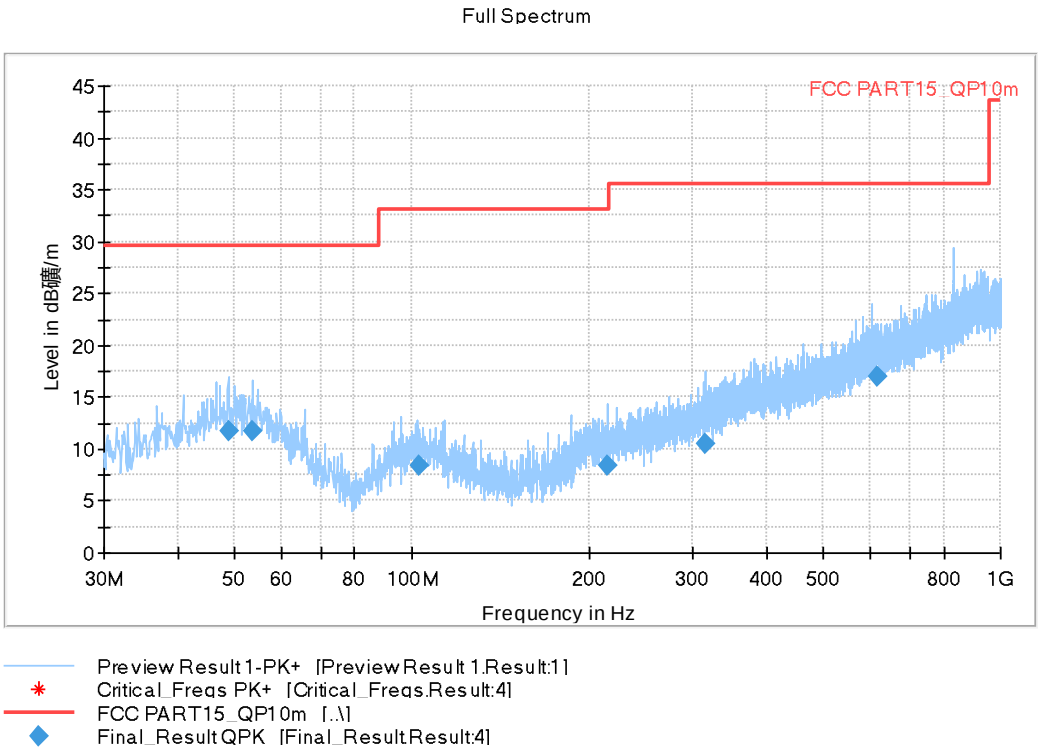

Fig A.1 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
48.818000	11.75	29.54	17.79	2000.0	120.000	182.0	V	151.0
53.668000	11.66	29.54	17.88	2000.0	120.000	125.0	V	300.0
103.138000	8.43	33.06	24.63	2000.0	120.000	225.0	V	154.0
214.882000	8.38	33.06	24.68	2000.0	120.000	283.0	V	-10.0
315.956000	10.57	35.56	24.99	2000.0	120.000	325.0	V	210.0
617.723000	16.95	35.56	18.61	2000.0	120.000	283.0	H	-29.0

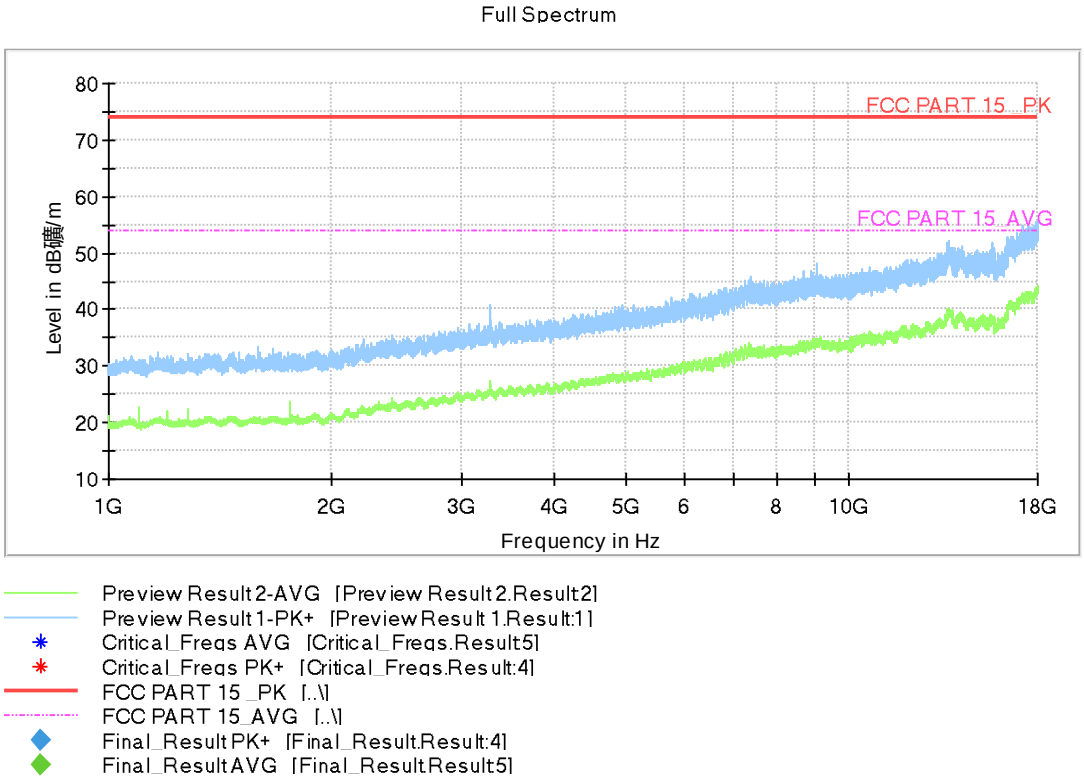

Fig A.2 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.2:

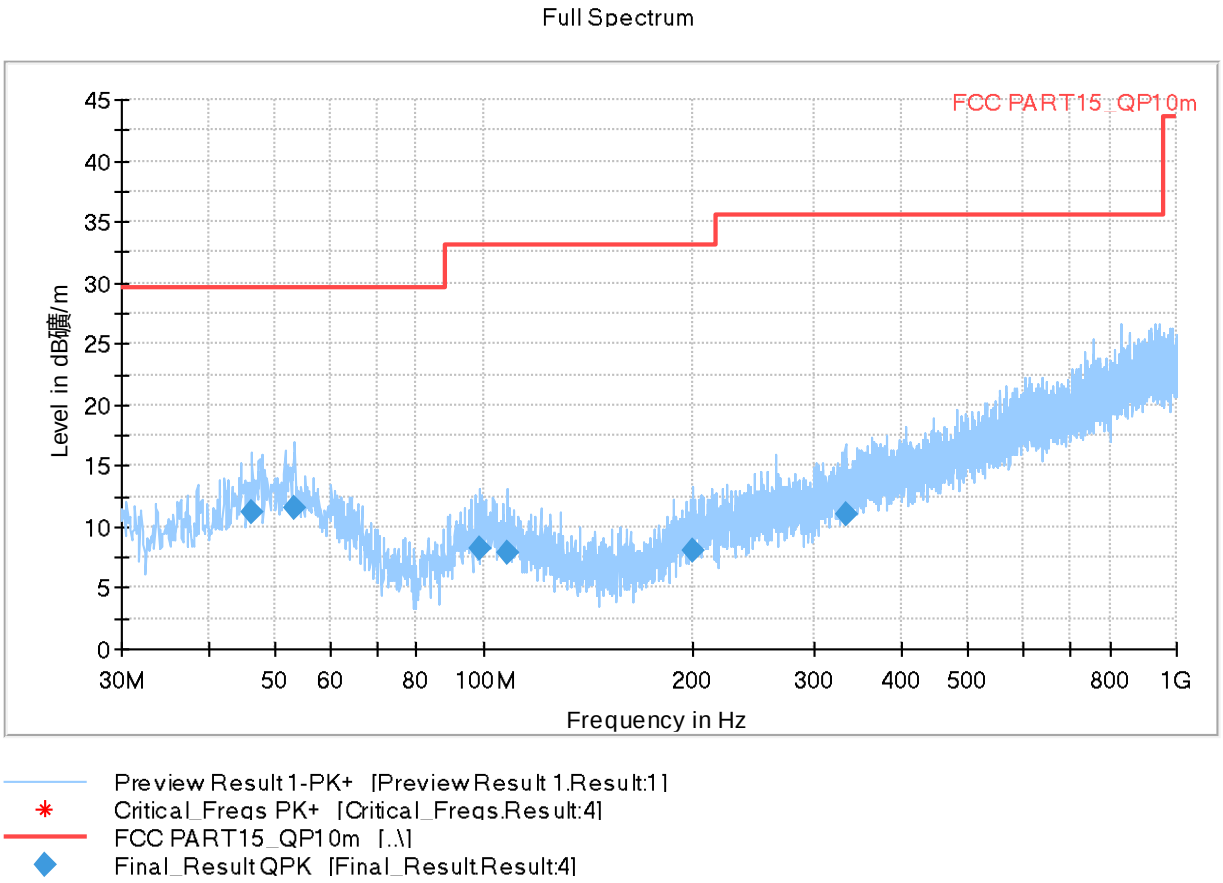

Fig A.3 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
46.199000	11.22	29.54	18.32	2000.0	120.000	202.0	V	240.0
53.377000	11.58	29.54	17.96	2000.0	120.000	125.0	V	120.0
98.385000	8.23	33.06	24.83	2000.0	120.000	125.0	V	300.0
108.085000	7.95	33.06	25.11	2000.0	120.000	283.0	V	210.0
199.750000	8.12	33.06	24.94	2000.0	120.000	225.0	V	11.0
332.446000	11.11	35.56	24.45	2000.0	120.000	275.0	V	30.0

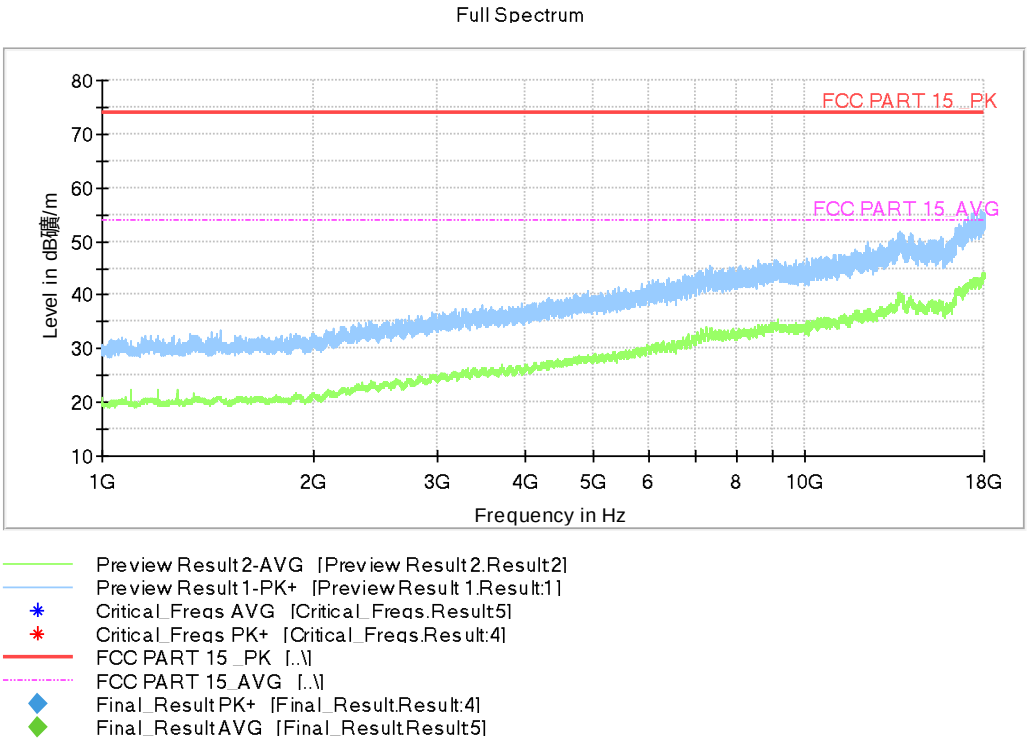

Fig A.4 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.3:

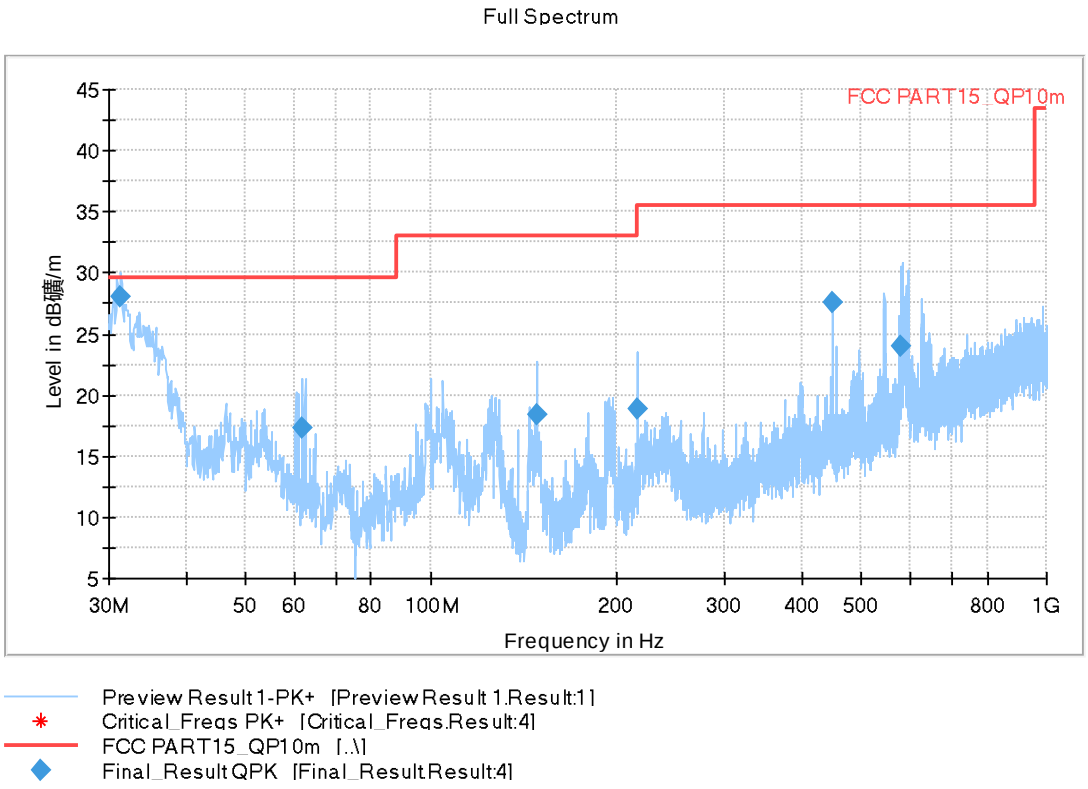

Fig A.5 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
31.358000	28.10	29.54	1.44	2000.0	120.000	125.0	V	300.0
61.719000	17.24	29.54	12.30	2000.0	120.000	325.0	V	120.0
148.631000	18.39	33.06	14.67	2000.0	120.000	183.0	V	10.0
215.949000	18.86	33.06	14.20	2000.0	120.000	125.0	V	81.0
450.010000	27.63	35.56	7.93	2000.0	120.000	325.0	V	260.0
580.281000	24.02	35.56	11.54	2000.0	120.000	183.0	V	-28.0

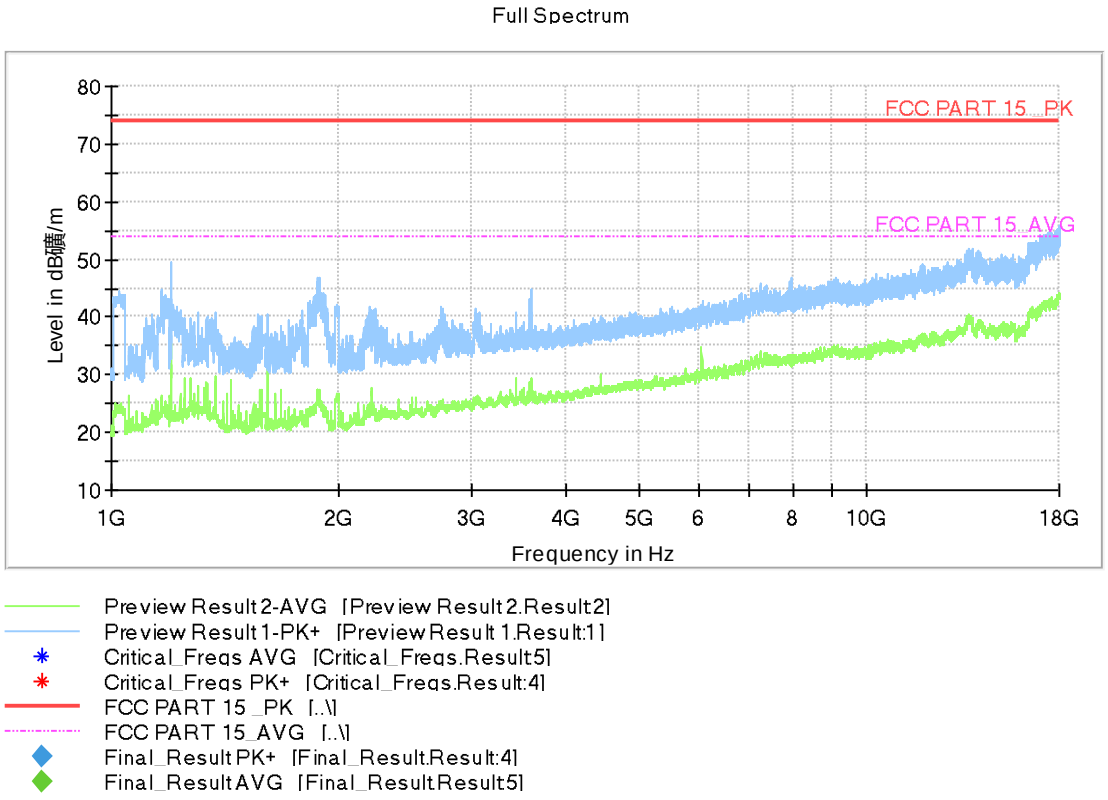

Fig A.6 Radiated Emission from 1GHz to 18GHz

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. 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:

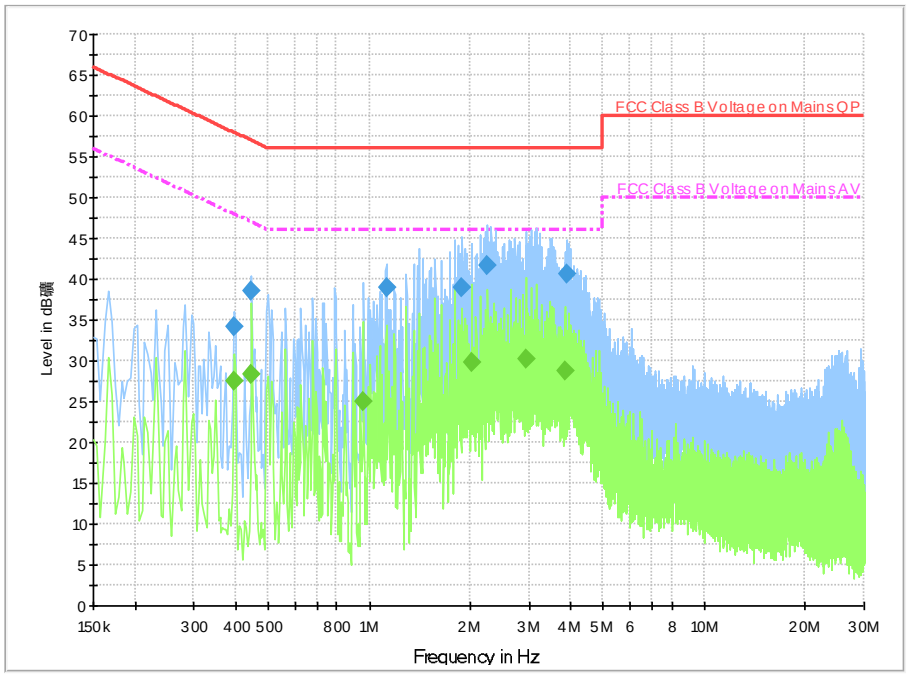

Fig A.7 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.394000	34.2	5000.0	9.000	On	L1	19.9	23.7	58.0	
0.446000	38.5	5000.0	9.000	On	L1	19.9	18.4	56.9	
1.126000	39.0	5000.0	9.000	On	L1	19.5	17.0	56.0	
1.898000	39.0	5000.0	9.000	On	L1	19.4	17.0	56.0	
2.258000	41.6	5000.0	9.000	On	L1	19.5	14.4	56.0	
3.886000	40.6	5000.0	9.000	On	L1	19.5	15.4	56.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.394000	27.4	5000.0	9.000	On	L1	19.9	20.5	48.0	
0.446000	28.3	5000.0	9.000	On	L1	19.9	18.7	46.9	
0.958000	25.1	5000.0	9.000	On	L1	19.5	20.9	46.0	
2.026000	29.7	5000.0	9.000	On	L1	19.4	16.3	46.0	
2.930000	30.3	5000.0	9.000	On	L1	19.5	15.7	46.0	
3.826000	28.7	5000.0	9.000	On	L1	19.5	17.3	46.0	

Charging Mode, Set.2:

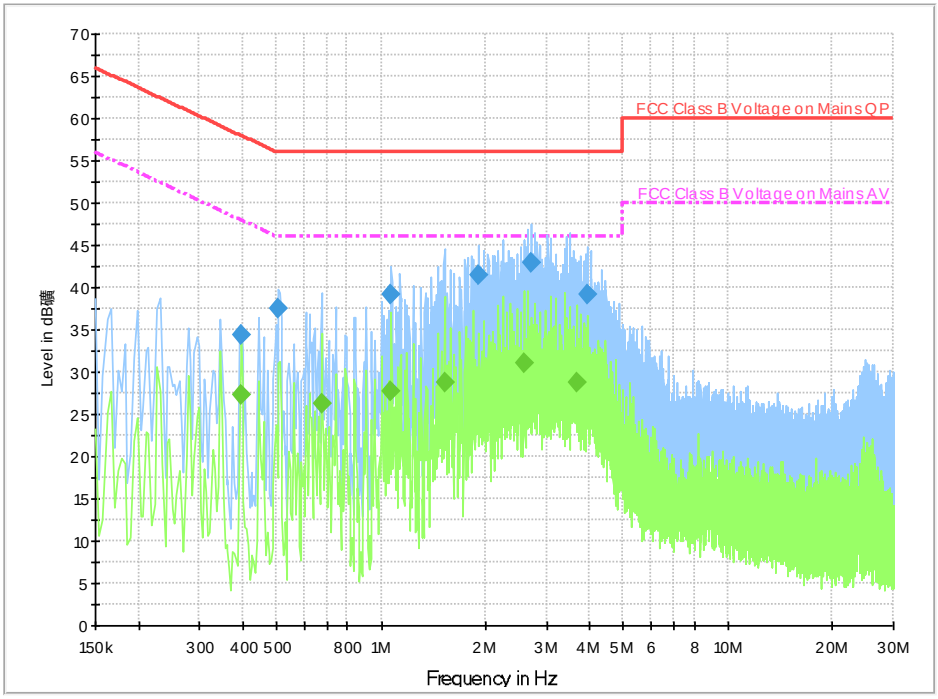

Fig A.8 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.394000	34.3	5000.0	9.000	On	L1	19.9	23.7	58.0	
0.506000	37.5	5000.0	9.000	On	L1	19.9	18.5	56.0	
1.070000	39.1	5000.0	9.000	On	L1	19.6	16.9	56.0	
1.914000	41.5	5000.0	9.000	On	L1	19.4	14.5	56.0	
2.706000	42.9	5000.0	9.000	On	L1	19.5	13.1	56.0	
3.954000	39.2	5000.0	9.000	On	L1	19.6	16.8	56.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.394000	27.4	5000.0	9.000	On	L1	19.9	20.6	48.0	
0.674000	26.2	5000.0	9.000	On	L1	19.7	19.8	46.0	
1.070000	27.7	5000.0	9.000	On	L1	19.6	18.3	46.0	
1.522000	28.7	5000.0	9.000	On	L1	19.5	17.3	46.0	
2.590000	31.0	5000.0	9.000	On	L1	19.5	15.0	46.0	
3.662000	28.7	5000.0	9.000	On	L1	19.5	17.3	46.0	

USB Mode, Set.3:

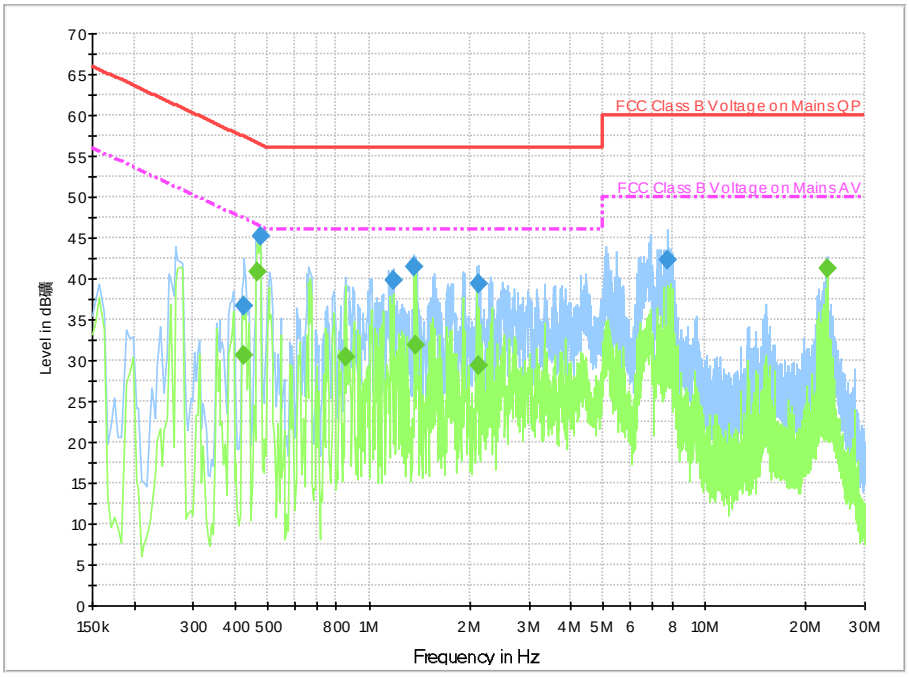

Fig A.9 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.426000	36.6	5000.0	9.000	On	L1	19.9	20.7	57.3	
0.474000	45.2	5000.0	9.000	On	L1	19.9	11.2	56.4	
1.186000	39.9	5000.0	9.000	On	N	19.8	16.1	56.0	
1.362000	41.4	5000.0	9.000	On	L1	19.5	14.6	56.0	
2.126000	39.3	5000.0	9.000	On	L1	19.5	16.7	56.0	
7.726000	42.3	5000.0	9.000	On	L1	19.5	17.7	60.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.422000	30.7	5000.0	9.000	On	N	19.9	16.7	47.4	
0.466000	40.8	5000.0	9.000	On	L1	19.9	5.8	46.6	
0.850000	30.5	5000.0	9.000	On	N	19.8	15.5	46.0	
1.382000	31.9	5000.0	9.000	On	L1	19.5	14.1	46.0	
2.122000	29.4	5000.0	9.000	On	N	19.8	16.6	46.0	
23.126000	41.3	5000.0	9.000	On	N	19.9	8.7	50.0	

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