



FCC PART 15B TEST REPORT

No. I22Z60568-EMC01

for

TCL Communication Ltd.

GSM/UMTS/LTE mobile phone

Model name: 4058P

FCC ID: 2ACCJN064

with

Hardware Version: 03

Software Version: RL3W

Issued Date: 2022-05-05

Note:

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Test Laboratory:

CTTL-Telecommunication Technology Labs, CAICT

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I22Z60568-EMC01	Rev.0	1 st edition	2022-05-05

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: 2022-04-06

Testing End Date: 2022-05-05

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/UMTS/LTE mobile phone
Model Name	4058P
FCC ID:	2ACCJN064

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	016211000012141	03	RL3W

*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	USB Cable	/	/
AE5	USB Cable	/	/
AE6	Docking	/	/
AE7	Headset	/	/

AE1

Model	TLi017D1
Manufacturer	BYD
Capacity	1780mAh
Nominal Voltage	3.85V

AE2

Model	UC11US
Manufacturer	PUAN
Length of cable	/

AE3

Model	UC11US
Manufacturer	Chenyang
Length of cable	/

AE4

Model	CDA0000162C1
Manufacturer	juwei
Length of cable	/

AE5

Model	CDA0000162C2
Manufacturer	shenghua
Length of cable	/

AE6

Model	CBC0032A00C5
Manufacturer	PUAN
Length of cable	/

AE7

Model	/
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	Charger1 + REAR Camera + GSM 850 idle
Set.2	EUT1 + AE1 + AE3 + AE5	Charger2 + MP4 + WCDMA 850 idle
Set.3	EUT1 + AE1 + AE4/5 + AE7	USB + front camera +LTE B5 idle + FM
Set.4	EUT1+ AE1 + AE2 + AE4/5 + AE6	Docking

Note:

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

It supports

GSM Band GSM900/DCS1800/PCS1900/GSM850

UMTS Band FDD Band II(W1900) / FDD Band V(W850)

LTE Band FDD2/FDD4/FDD5/FDD12/FDD13/FDD66

It has MP3, Camera, USB memory, FM, Bluetooth 4.2, Wi-Fi (802.11b/g/n/a, 802.11n supports 20MHz and 40MHz bandwidth) ,GNSS functions

The device contains receivers which tune and operate between 30MHz-960MHz in the following bands: GSM850, WCDMA850, LTE Band 5/12/13. 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 M
Ground system resistance	< 4
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 M
Ground system resistance	< 4

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	ESW44	103023	R&S	2022-10-28	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	2023-03-21	1 Year
5	EMI Antenna	VULB 9163	302	SCHWARZBECK	2022-12-28	1 year
6	EMI Antenna	3115	00167250	ETS-Lindgren	2022-07-01	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 ($\mu\text{V}/\text{m}$)		
	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:

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

Where

G_A : Antenna factor of receive antenna

G_{PL} : Path Loss

P_{Mea} : Measurement result on receiver.

Measurement uncertainty (worst case): $U = 4.74 \text{ dB}$, $k=2$.

Measurement results for Set.1:

Charing Mode/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)
17947.640	39.50	-28.94	46.66	21.78	54.00	14.50	V
17950.700	39.40	-28.94	46.66	21.68	54.00	14.60	V
17941.860	39.40	-28.94	46.66	21.68	54.00	14.60	V
17952.740	39.40	-28.94	46.66	21.68	54.00	14.60	H
17975.180	39.30	-29.06	46.66	21.70	54.00	14.70	V
17973.820	39.30	-29.06	46.66	21.70	54.00	14.70	V

Charging Mode/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)
17305.040	50.90	-29.49	43.36	37.03	74.00	23.10	H
17964.640	50.80	-29.06	46.66	33.20	74.00	23.20	H
17978.240	50.70	-29.06	46.66	33.10	74.00	23.30	V
17943.900	50.50	-28.94	46.66	32.78	74.00	23.50	V
17212.900	50.50	-29.49	42.36	37.63	74.00	23.50	V
17971.440	50.40	-29.06	46.66	32.80	74.00	23.60	V

Measurement results for Set.2:
Charing Mode/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)
17953.080	40.10	-28.94	46.66	22.38	54.00	13.90	V
17977.220	39.50	-29.06	46.66	21.90	54.00	14.50	H
17977.560	39.40	-29.06	46.66	21.80	54.00	14.60	V
17961.580	39.20	-29.06	46.66	21.60	54.00	14.80	H
17993.200	39.10	-29.06	46.66	21.50	54.00	14.90	H
17960.560	39.10	-29.06	46.66	21.50	54.00	14.90	V

Charging Mode/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)
17810.280	51.10	-29.63	45.95	34.78	74.00	22.90	V
17601.860	50.70	-29.52	45.25	34.97	74.00	23.30	H
17859.920	50.70	-29.34	45.95	34.08	74.00	23.30	H
17368.620	50.50	-29.97	43.36	37.11	74.00	23.50	V
17845.980	50.40	-29.34	45.95	33.78	74.00	23.60	H
17963.620	50.40	-29.06	46.66	32.80	74.00	23.60	H

Measurement results for Set.3:
USB Mode/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)
17966.340	39.30	-29.06	46.66	21.70	54.00	14.70	V
17949.000	39.20	-28.94	46.66	21.48	54.00	14.80	H
17757.920	39.20	-29.61	45.95	22.86	54.00	14.80	V
17867.060	39.20	-29.39	45.95	22.64	54.00	14.80	V
17963.280	39.20	-29.06	46.66	21.60	54.00	14.80	V
17955.120	39.10	-28.94	46.66	21.38	54.00	14.90	H

USB Mode/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)
17867.060	51.00	-29.39	45.95	34.44	74.00	23.00	V
17761.660	50.80	-29.63	45.95	34.47	74.00	23.20	H
17281.920	50.50	-29.69	43.36	36.83	74.00	23.50	H
17356.720	50.50	-29.97	43.36	37.11	74.00	23.50	H
17984.020	50.40	-29.06	46.66	32.80	74.00	23.60	V
17666.460	50.30	-29.90	45.25	34.95	74.00	23.70	V

Measurement results for Set.4:
Charing Mode/Average detector

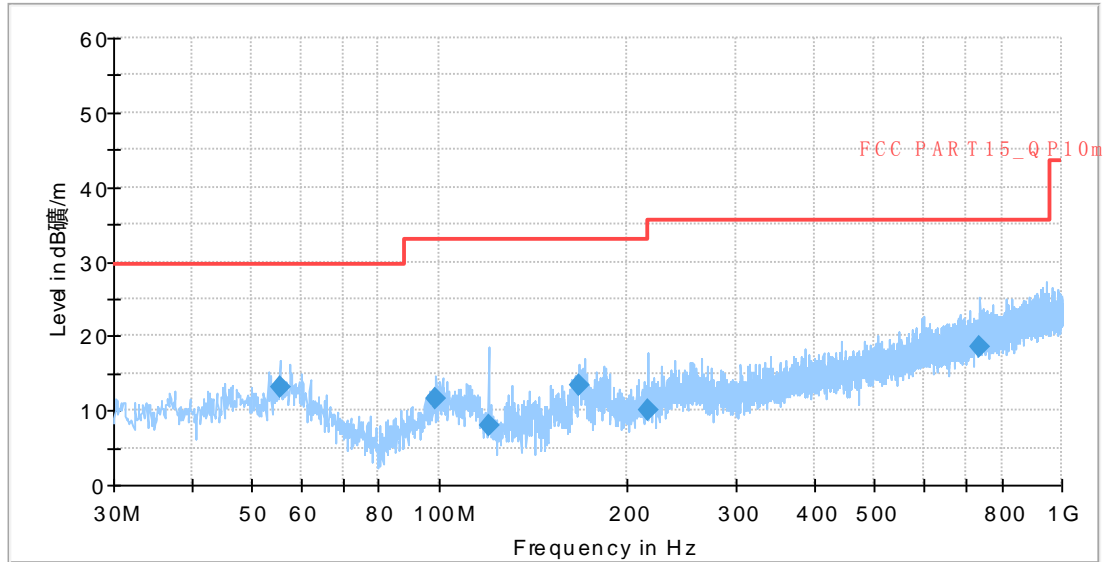
Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17936.420	39.60	-29.40	46.66	22.34	54.00	14.40	H
17959.880	39.40	-28.94	46.66	21.68	54.00	14.60	V
17964.300	39.40	-29.06	46.66	21.80	54.00	14.60	V
17947.640	39.40	-28.94	46.66	21.68	54.00	14.60	H
17956.140	39.40	-28.94	46.66	21.68	54.00	14.60	H
17941.860	39.30	-28.94	46.66	21.58	54.00	14.70	V

Charging Mode/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)
17876.580	51.00	-29.39	45.95	34.44	74.00	23.00	H
17958.180	50.70	-28.94	46.66	32.98	74.00	23.30	H
17885.760	50.70	-29.53	45.95	34.28	74.00	23.30	V
17770.840	50.70	-29.63	45.95	34.37	74.00	23.30	H
17940.840	50.50	-28.94	46.66	32.78	74.00	23.50	H
17957.500	50.50	-28.94	46.66	32.78	74.00	23.50	H

Measurement results for Set.1:

Full Spectrum



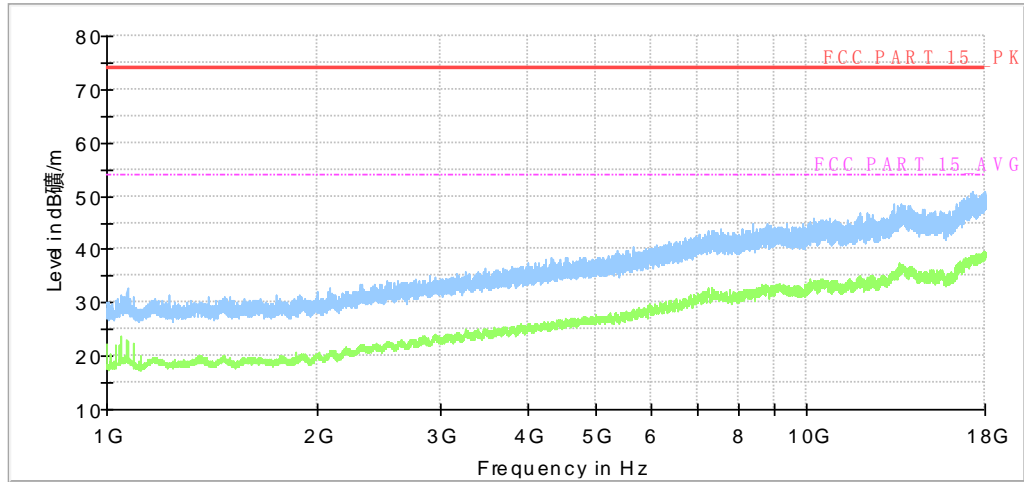
- Preview Result 1-PK+ [Preview Result 1.Result:1]
- * Critical_Freqs PK+ [Critical_Freqs.Result:4]
- FCC PART 15_QP10m [.\]
- ◆ Final_Result QPK [Final_Result.Result:4]
- × MaxPeak-PK+ (Single) [Result Table_Single.Result:1]
- + QuasiPeak-QPK (Single) [Result Table_Single.Result:2]

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)
55.511000	13.01	29.54	16.53	2000.0	120.000	98.0	V	183.0
98.967000	11.62	33.06	21.44	2000.0	120.000	108.0	V	275.0
120.016000	7.87	33.06	25.19	2000.0	120.000	109.0	V	-3.0
167.546000	13.49	33.06	19.57	2000.0	120.000	175.0	V	0.0
215.949000	10.02	33.06	23.04	2000.0	120.000	109.0	V	6.0
739.943000	18.55	35.56	17.01	2000.0	120.000	286.0	H	267.0

Full Spectrum

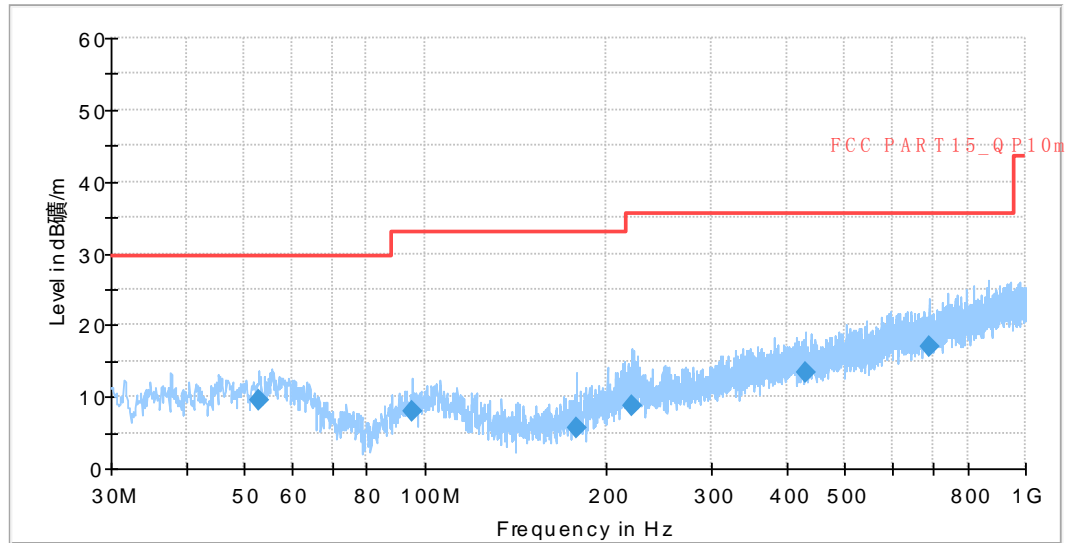


- Preview Result 2-AVG [Preview Result 2.Result:2]
- Preview Result 1-PK+ [Preview Result 1.Result:1]
- * Critical_Freqs AVG [Critical_Freqs.Result:5]
- * Critical_Freqs PK+ [Critical_Freqs.Result:4]
- FCC PART 15_PK [..]
- - - - - FCC PART 15_AVG [..]
- ◆ Final_Result PK+ [Final_Result.Result:4]
- ◆ Final_Result AVG [Final_Result.Result:5]

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

Measurement results for Set.2:

Full Spectrum

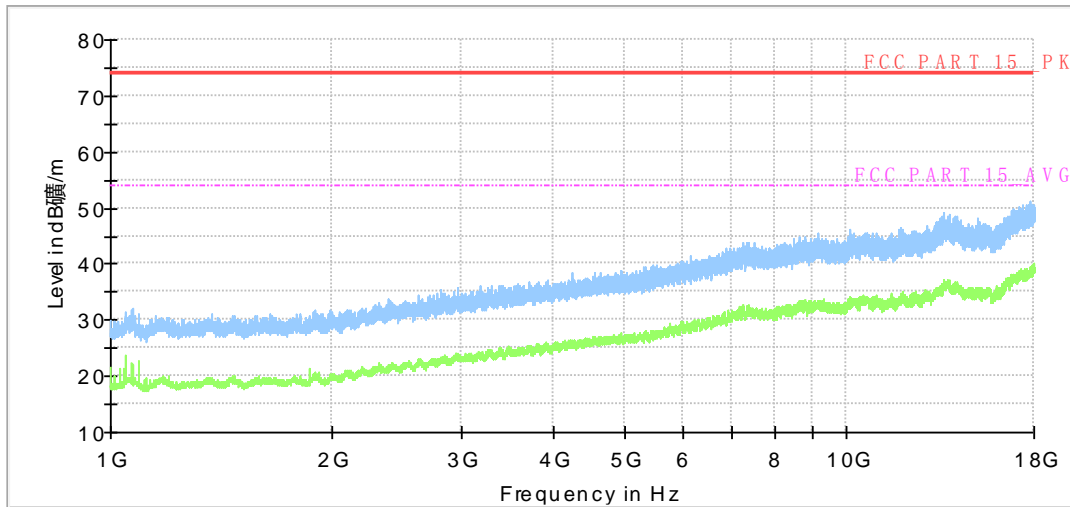


- Preview Result 1-PK+ [Preview Result 1.Result:1]
- * Critical_Freqs PK+ [Critical_Freqs.Result:4]
- FCC PART 15_QP10m [.]
- ◆ Final_Result QPK [Final_Result.Result:4]
- × MaxPeak-PK+ (Single) [Result Table_Single.Result:1]
- + QuasiPeak-QPK (Single) [Result Table_Single.Result:2]

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)
52.795000	9.49	29.54	20.05	2000.0	120.000	186.0	H	-4.0
95.184000	7.99	33.06	25.07	2000.0	120.000	275.0	V	269.0
178.410000	5.74	33.06	27.32	2000.0	120.000	125.0	V	3.0
220.702000	8.63	35.56	26.93	2000.0	120.000	107.0	V	10.0
429.252000	13.34	35.56	22.22	2000.0	120.000	108.0	V	93.0
694.159000	16.93	35.56	18.63	2000.0	120.000	225.0	V	266.0

Full Spectrum

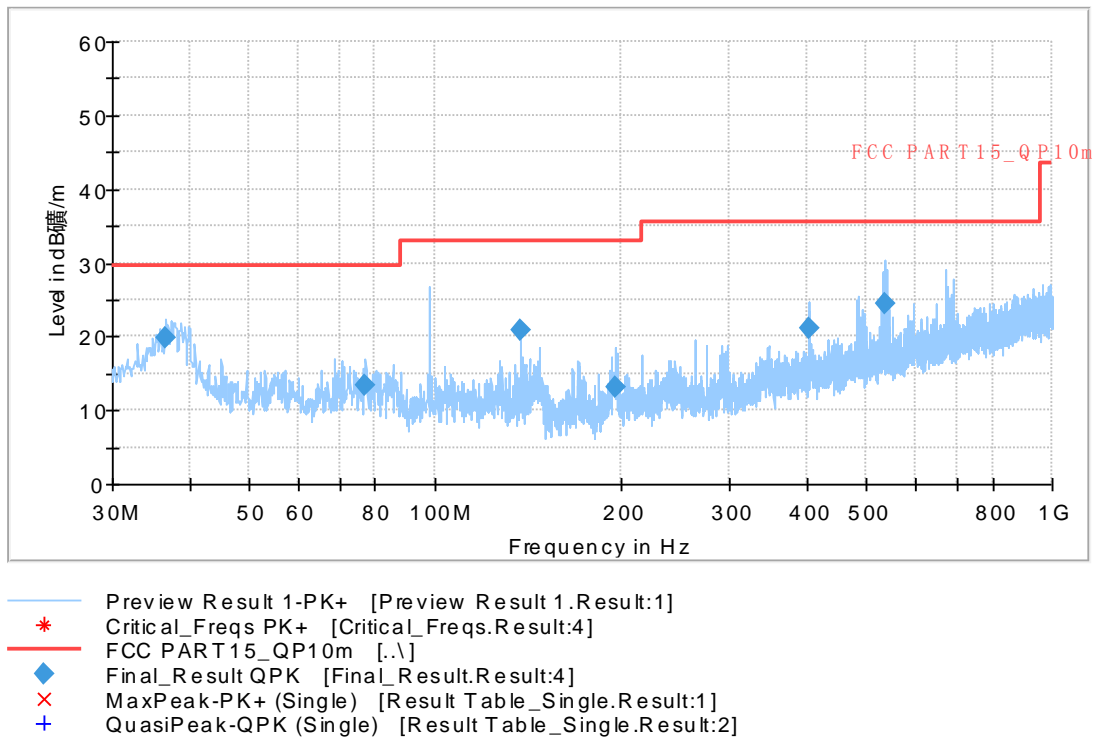


- Preview Result 2-AVG [Preview Result 2.Result:2]
- Preview Result 1-PK+ [Preview Result 1.Result:1]
- * Critical_Freqs AVG [Critical_Freqs.Result:5]
- * Critical_Freqs PK+ [Critical_Freqs.Result:4]
- FCC PART 15 _PK [..\]
- - - - - FCC PART 15 _AVG [..\]
- ◆ Final_Result PK+ [Final_Result.Result:4]
- ◆ Final_Result AVG [Final_Result.Result:5]

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

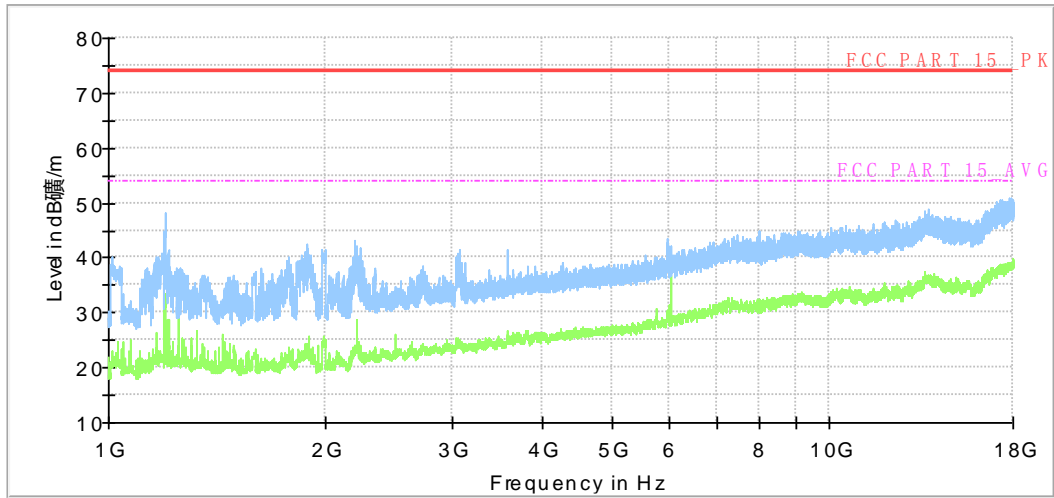
Measurement results for Set.3:

Full Spectrum


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)
36.693000	19.75	29.54	9.79	2000.0	120.000	125.0	V	262.0
77.239000	13.35	29.54	16.19	2000.0	120.000	325.0	V	84.0
137.670000	20.83	33.06	12.23	2000.0	120.000	98.0	V	177.0
196.646000	13.11	33.06	19.95	2000.0	120.000	325.0	V	183.0
404.808000	21.09	35.56	14.47	2000.0	120.000	275.0	H	-11.0
534.885000	24.34	35.56	11.22	2000.0	120.000	225.0	V	3.0

Full Spectrum

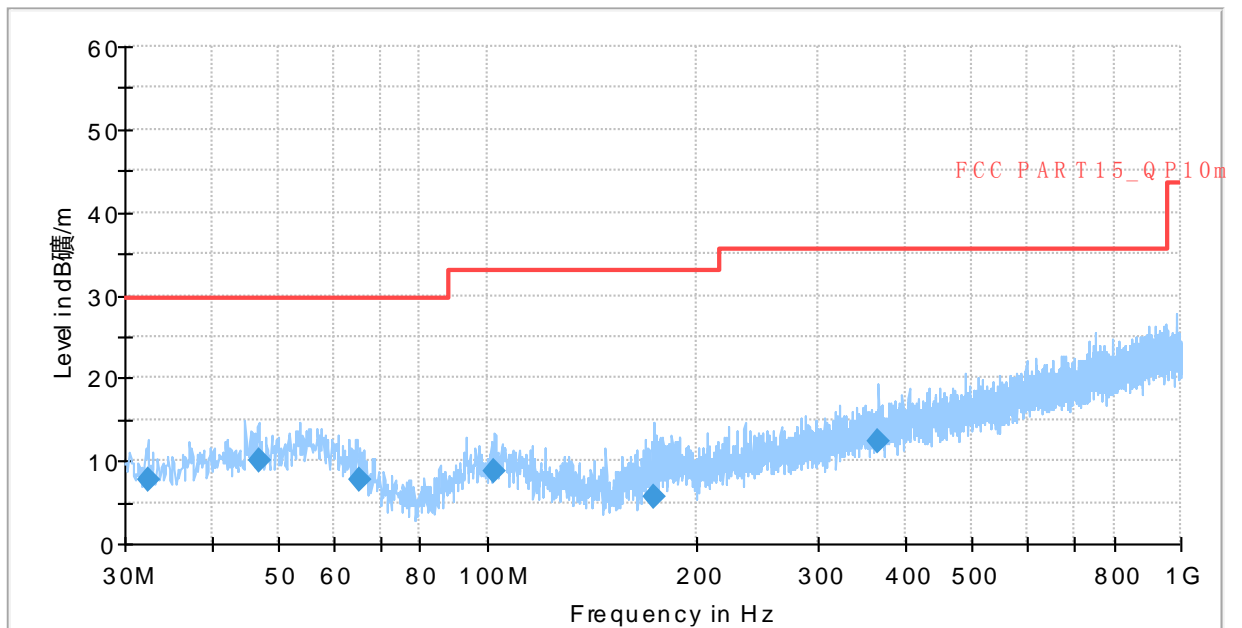


- Preview Result 2-AVG [Preview Result 2.Result:2]
- Preview Result 1-PK+ [Preview Result 1.Result:1]
- * Critical_Freqs AVG [Critical_Freqs.Result:5]
- * Critical_Freqs PK+ [Critical_Freqs.Result:4]
- FCC PART 15_PK [..]
- - - - - FCC PART 15_AVG [..]
- ◆ Final_Result PK+ [Final_Result.Result:4]
- ◆ Final_Result AVG [Final_Result.Result:5]

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

Measurement results for Set.4:

Full Spectrum



- Preview Result 1-PK+ [Preview Result 1.Result:1]
- * Critical_Freqs PK+ [Critical_Freqs.Result:4]
- FCC PART15_QP10m [..]
- ◆ Final_Result QPK [Final_Result.Result:4]
- × MaxPeak-PK+ (Single) [Result Table_Single.Result:1]
- + QuasiPeak-QPK (Single) [Result Table_Single.Result:2]

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	7.67	29.54	21.87	2000.0	120.000	186.0	H	182.0
46.781000	10.04	29.54	19.50	2000.0	120.000	125.0	V	9.0
65.502000	7.72	29.54	21.82	2000.0	120.000	175.0	H	263.0
102.459000	8.75	33.06	24.31	2000.0	120.000	198.0	H	87.0
174.239000	5.67	33.06	27.39	2000.0	120.000	125.0	V	-5.0
366.881000	12.30	35.56	23.26	2000.0	120.000	325.0	V	173.0

Full Spectrum

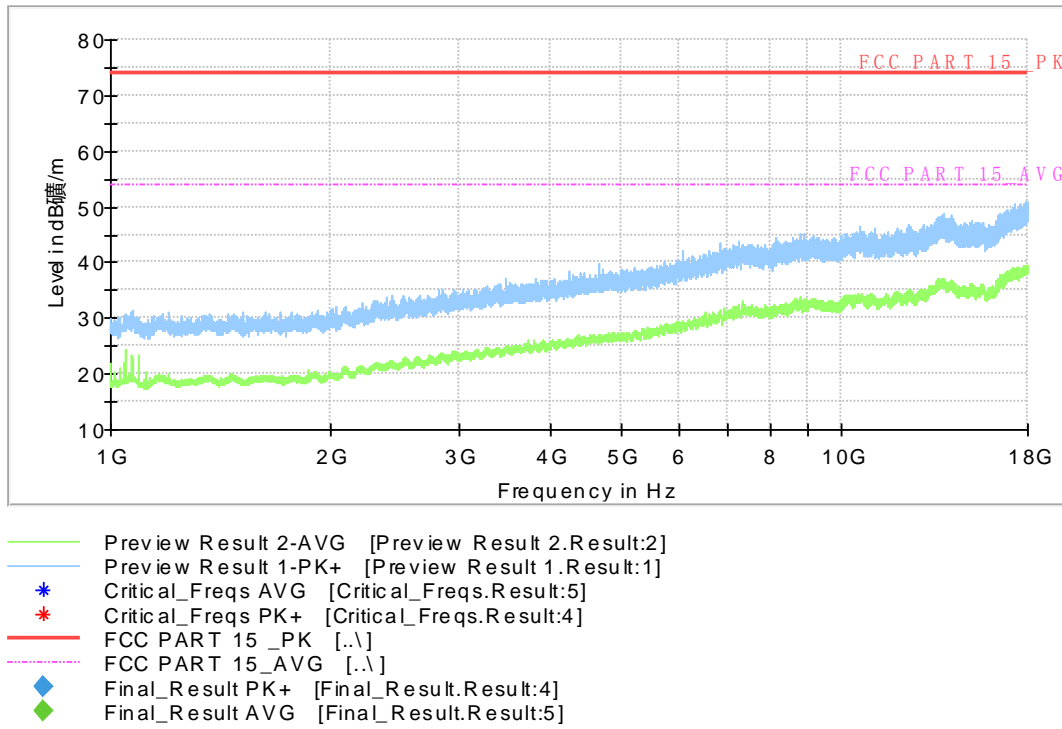


Fig A.8 Radiated Emission from 1GHz to 18GHz

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 (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: $U= 3.1 \text{ dB}$, $k=2$.

Charging Mode, Set.1:

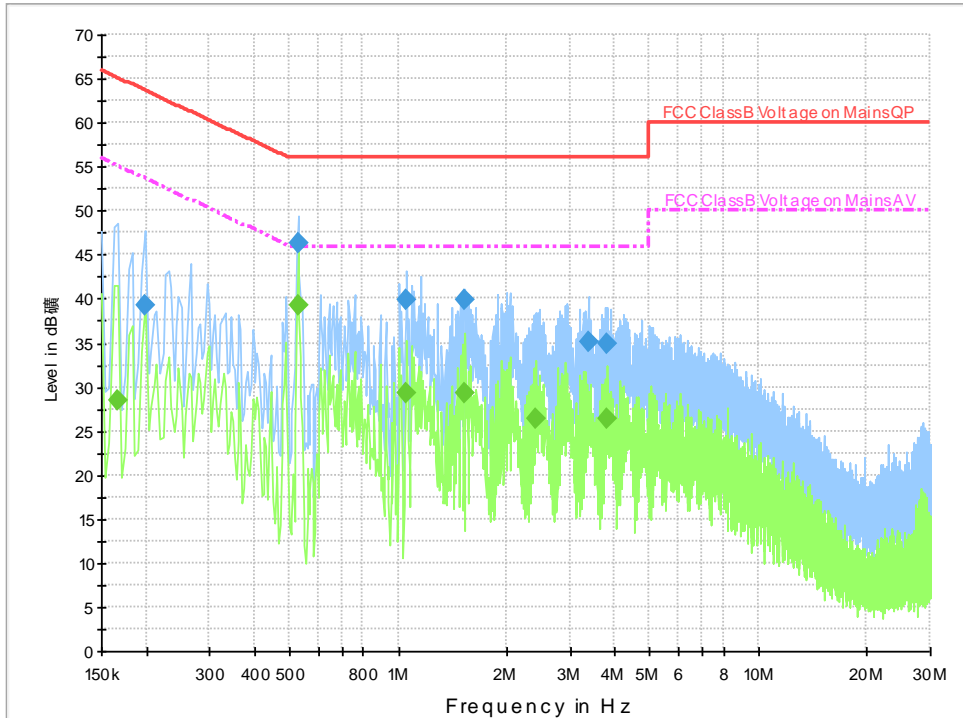


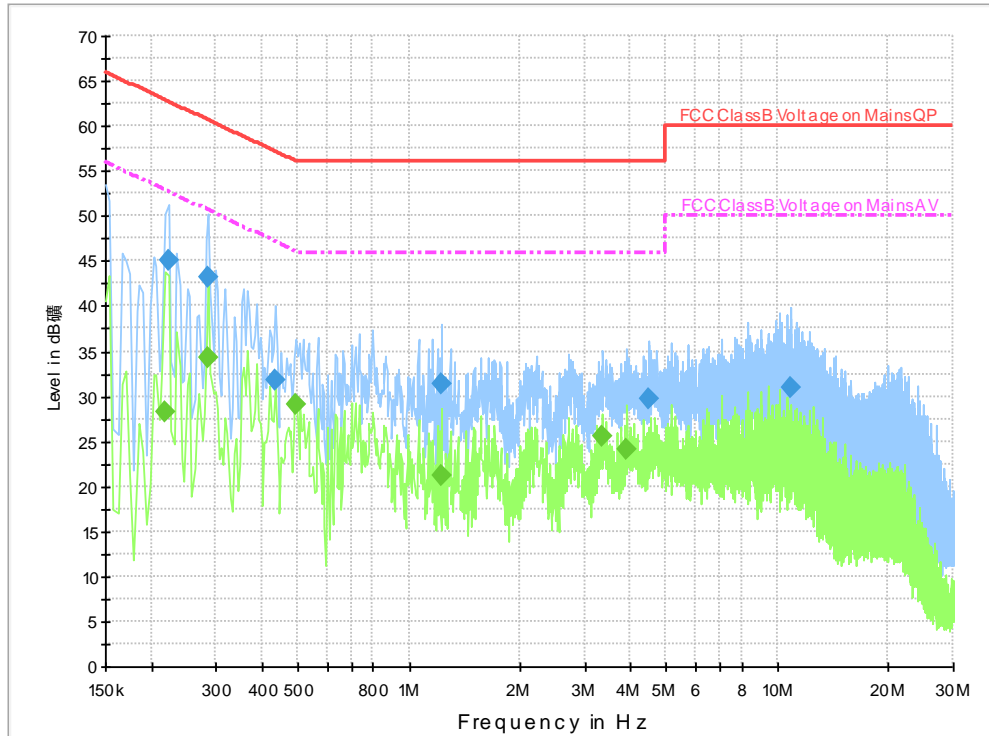
Fig A.9 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.198000	39.3	5000.0	9.000	On	L1	20.0	24.4	63.7	
0.526000	46.3	5000.0	9.000	On	L1	19.9	9.7	56.0	
1.058000	40.0	5000.0	9.000	On	L1	19.6	16.0	56.0	
1.538000	39.9	5000.0	9.000	On	L1	19.5	16.1	56.0	
3.366000	35.1	5000.0	9.000	On	L1	19.5	20.9	56.0	
3.810000	34.8	5000.0	9.000	On	L1	19.5	21.2	56.0	

Final Result 2

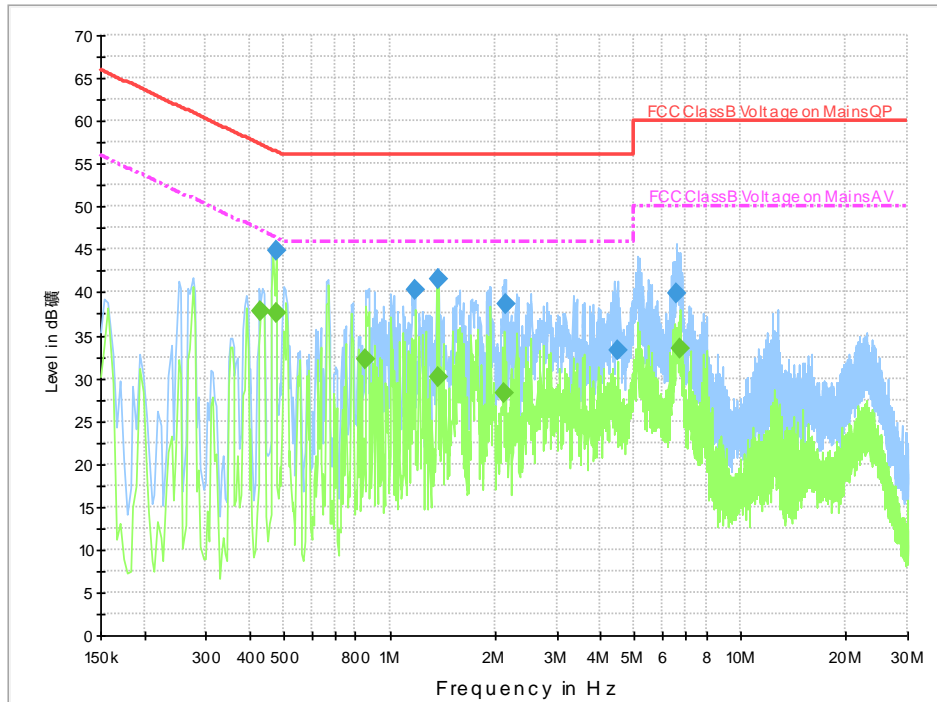
Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.166000	28.5	5000.0	9.000	On	L1	20.0	26.7	55.2	
0.526000	39.3	5000.0	9.000	On	L1	19.9	6.7	46.0	
1.058000	29.2	5000.0	9.000	On	L1	19.6	16.8	46.0	
1.538000	29.2	5000.0	9.000	On	L1	19.5	16.8	46.0	
2.418000	26.4	5000.0	9.000	On	L1	19.5	19.6	46.0	
3.810000	26.4	5000.0	9.000	On	L1	19.5	19.6	46.0	

Charging Mode, Set.2:

Fig A.10 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
0.222000	45.1	5000.0	9.000	On	L1	20.0	17.7	62.7	
0.286000	43.3	5000.0	9.000	On	L1	20.0	17.3	60.6	
0.434000	31.7	5000.0	9.000	On	L1	19.9	25.5	57.2	
1.226000	31.4	5000.0	9.000	On	L1	19.5	24.6	56.0	
4.482000	29.7	5000.0	9.000	On	L1	19.6	26.3	56.0	
10.918000	31.0	5000.0	9.000	On	L1	19.7	29.0	60.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.218000	28.2	5000.0	9.000	On	N	19.8	24.7	52.9	
0.286000	34.2	5000.0	9.000	On	L1	20.0	16.5	50.6	
0.494000	29.0	5000.0	9.000	On	L1	19.9	17.1	46.1	
1.226000	21.3	5000.0	9.000	On	L1	19.5	24.7	46.0	
3.338000	25.6	5000.0	9.000	On	L1	19.5	20.4	46.0	
3.914000	24.2	5000.0	9.000	On	L1	19.5	21.8	46.0	

USB Mode, Set.3:

Fig A.11 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
0.474000	44.9	5000.0	9.000	On	N	20.0	11.6	56.4	
1.182000	40.3	5000.0	9.000	On	N	19.8	15.7	56.0	
1.378000	41.5	5000.0	9.000	On	N	19.8	14.5	56.0	
2.134000	38.7	5000.0	9.000	On	N	19.8	17.3	56.0	
4.458000	33.2	5000.0	9.000	On	N	19.7	22.8	56.0	
6.562000	39.8	5000.0	9.000	On	N	19.7	20.2	60.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.430000	37.7	5000.0	9.000	On	L1	19.9	9.5	47.3	
0.474000	37.7	5000.0	9.000	On	N	20.0	8.8	46.4	
0.858000	32.2	5000.0	9.000	On	N	19.8	13.8	46.0	
1.382000	30.2	5000.0	9.000	On	N	19.8	15.8	46.0	
2.130000	28.2	5000.0	9.000	On	L1	19.5	17.8	46.0	
6.714000	33.4	5000.0	9.000	On	L1	19.5	16.6	50.0	

Charging Mode, Set.4:

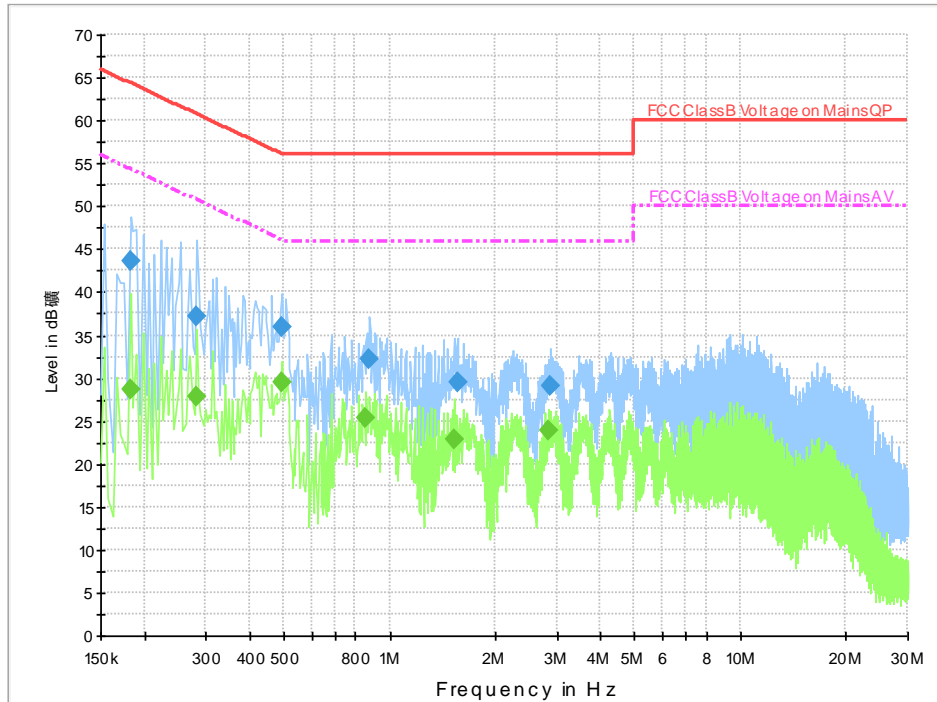


Fig A.12 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.182000	43.5	5000.0	9.000	On	N	19.7	20.9	64.4	
0.282000	37.3	5000.0	9.000	On	N	19.9	23.5	60.8	
0.494000	36.0	5000.0	9.000	On	N	20.0	20.1	56.1	
0.878000	32.3	5000.0	9.000	On	L1	19.6	23.7	56.0	
1.558000	29.5	5000.0	9.000	On	N	19.7	26.5	56.0	
2.862000	29.1	5000.0	9.000	On	N	19.7	26.9	56.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.182000	28.6	5000.0	9.000	On	N	19.7	25.8	54.4	
0.282000	27.9	5000.0	9.000	On	N	19.9	22.9	50.8	
0.494000	29.6	5000.0	9.000	On	N	20.0	16.5	46.1	
0.858000	25.4	5000.0	9.000	On	N	19.8	20.6	46.0	
1.522000	22.9	5000.0	9.000	On	N	19.8	23.1	46.0	
2.834000	23.8	5000.0	9.000	On	N	19.7	22.2	46.0	

END OF REPORT