



FCC PART 15B TEST REPORT

No. I23Z61525-EMC01

for

TCL Communication Ltd.

LTE Mobile phone

Model name: T434W

FCC ID: 2ACCJH177

with

Hardware Version: 03

Software Version: 6VS7

Issued Date: 2023-09-01

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
I23Z61525-EMC01	Rev.0	1 st edition	2023-09-01

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: 2023-08-13

Testing End Date: 2023-08-14

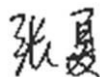
1.4. Signature



Wang Xue
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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	LTE Mobile phone
Model Name	T434W
FCC ID:	2AC CJH177

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	016459000201210	03	6VS7

*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	Model	Manufacture	Remark
AE1	Battery	CAC3860040C7	VEKEN	/
AE2	Charger1	CBA0071AGTC7	CHENYANG	/
AE3	USB Cable	CDA0000123C8	PUAN	/

*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+MP3+F Camera
Set.2	EUT1 + AE1 + AE2 +AE3	Charger1 +R Camera
Set.3	EUT1 + AE1 + AE2 +AE3	USB + LTE B5 idle
Set.4	EUT1 + AE1 + Cable + EUT	OTG

Note:

Equipment Under Test (EUT) is a model of LTE Mobile phone.

It supports

LTE Band FDD Bands 2/4/5/12/25/26/66/71, TDD Band 41

It has MP3, Camera, USB memory, Bluetooth 5.1, Wi-Fi (802.11a/b/g/n/ac, 802.11n supports 20MHz and 40MHz bandwidth, 802.11ac supports 20MHz, 40MHz and 80MHz bandwidth) and GPS functions.

The device contains receivers which tune and operate between 30MHz-960MHz in the following mode: LTE Band 5/12/26/71. 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 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 Ω
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 M Ω
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	CALIBRATI ON INTERVAL
1	Test Receiver	ESW44	103144	R&S	2023-10-25	1 Year
2	LISN	ENV216	101200	R&S	2024-06-05	1 year
3	Test Receiver	ESCI 7	100344	R&S	2024-02-21	1 Year
4	EMI Antenna	VULB 9163	01222	SCHWARZBECK	2024-02-28	1 year
5	EMI Antenna	3115	6914	ETS-Lindgren	2024-04-25	1 year
6	Universal Communication Tester	CMW500	163975	R&S	2024-01-03	1 year
7	Software	EMC32	/	R&S	/	/

ANNEX A: MEASUREMENT RESULTS

A.1 Radiated Emission

Reference

FCC: CFR Part 15.109(a).

A.1.1 Method of measurement

The field strength of radiated emissions from the unintentional radiator (USB/OTG 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, OTG 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 the other device for charging in OTG 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.

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.

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/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): $U = 4.84 \text{ dB}$, $k=2$.

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)
17999.320	43.60	-29.06	46.66	26.00	54.00	10.40	H
17997.960	43.60	-29.06	46.66	26.00	54.00	10.40	V
17996.260	43.50	-29.06	46.66	25.90	54.00	10.50	V
17996.600	43.40	-29.06	46.66	25.80	54.00	10.60	V
17986.740	43.30	-29.06	46.66	25.70	54.00	10.70	V
17990.820	43.30	-29.06	46.66	25.70	54.00	10.70	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)
17996.260	54.00	-29.06	46.66	36.40	74.00	20.00	H
17994.220	53.80	-29.06	46.66	36.20	74.00	20.20	H
17991.500	53.70	-29.06	46.66	36.10	74.00	20.30	H
17804.160	53.40	-29.63	45.95	37.08	74.00	20.60	V
17978.580	53.20	-29.06	46.66	35.60	74.00	20.80	V
17979.260	53.20	-29.06	46.66	35.60	74.00	20.80	H

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)
17994.900	43.40	-29.06	46.66	25.80	54.00	10.60	V
17990.820	43.30	-29.06	46.66	25.70	54.00	10.70	H
17969.400	43.30	-29.06	46.66	25.70	54.00	10.70	H
17992.520	43.20	-29.06	46.66	25.60	54.00	10.80	H
17996.260	43.20	-29.06	46.66	25.60	54.00	10.80	V
17999.320	43.10	-29.06	46.66	25.50	54.00	10.90	H

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)
17986.400	54.00	-29.06	46.66	36.40	74.00	20.00	V
17814.020	53.70	-29.63	45.95	37.38	74.00	20.30	V
17917.720	53.60	-29.33	46.66	36.27	74.00	20.40	V
17780.700	53.40	-29.89	45.95	37.33	74.00	20.60	H
17816.740	53.30	-29.63	45.95	36.98	74.00	20.70	H
17991.160	53.20	-29.06	46.66	35.60	74.00	20.80	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)
17997.960	45.20	-29.06	46.66	27.60	54.00	8.80	H
17997.280	44.90	-29.06	46.66	27.30	54.00	9.10	H
17994.220	44.90	-29.06	46.66	27.30	54.00	9.10	V
17995.580	44.60	-29.06	46.66	27.00	54.00	9.40	H
17888.140	44.60	-29.53	45.95	28.18	54.00	9.40	V
17988.780	44.50	-29.06	46.66	26.90	54.00	9.50	V

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)
17997.960	55.80	-29.06	46.66	38.20	74.00	18.20	V
17987.420	55.40	-29.06	46.66	37.80	74.00	18.60	V
17993.880	54.40	-29.06	46.66	36.80	74.00	19.60	V
17995.240	54.40	-29.06	46.66	36.80	74.00	19.60	V
17885.760	54.20	-29.53	45.95	37.78	74.00	19.80	V
17791.240	54.20	-29.89	45.95	38.13	74.00	19.80	V

Measurement results for Set.4:
OTG 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)
17960.560	43.30	-29.06	46.66	25.70	54.00	10.70	H
17899.700	43.20	-29.53	45.95	26.78	54.00	10.80	H
17999.320	43.20	-29.06	46.66	25.60	54.00	10.80	H
17992.520	43.20	-29.06	46.66	25.60	54.00	10.80	V
17887.800	43.10	-29.53	45.95	26.68	54.00	10.90	V
17992.860	43.10	-29.06	46.66	25.50	54.00	10.90	H

OTG 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)
17891.200	54.10	-29.53	45.95	37.68	74.00	19.90	V
18000.000	53.80	-29.24	47.00	36.04	74.00	20.20	H
17996.600	53.70	-29.06	46.66	36.10	74.00	20.30	V
17990.480	53.50	-29.06	46.66	35.90	74.00	20.50	H
17998.640	53.10	-29.06	46.66	35.50	74.00	20.90	H
17958.520	53.00	-28.94	46.66	35.28	74.00	21.00	H

Measurement results for Set.1:

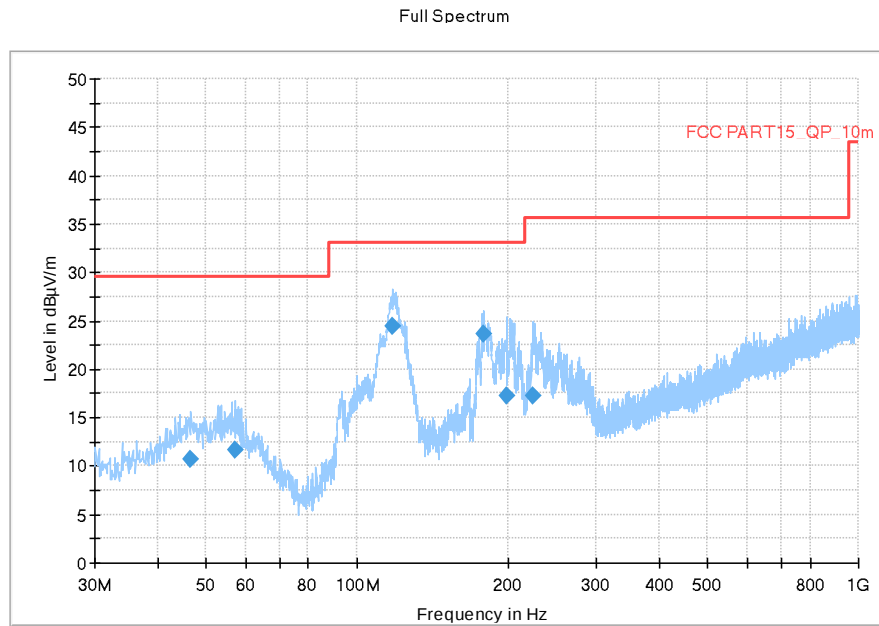


Fig A.1 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
46.684000	10.75	29.54	18.79	120.000	125.0	H	266.0
57.257000	11.72	29.54	17.82	120.000	125.0	V	253.0
117.494000	24.44	33.06	8.62	120.000	125.0	V	149.0
178.604000	23.62	33.06	9.44	120.000	100.0	V	59.0
198.683000	17.26	33.06	15.80	120.000	125.0	V	45.0
224.776000	17.28	35.56	18.28	120.000	125.0	V	252.0

Full Spectrum

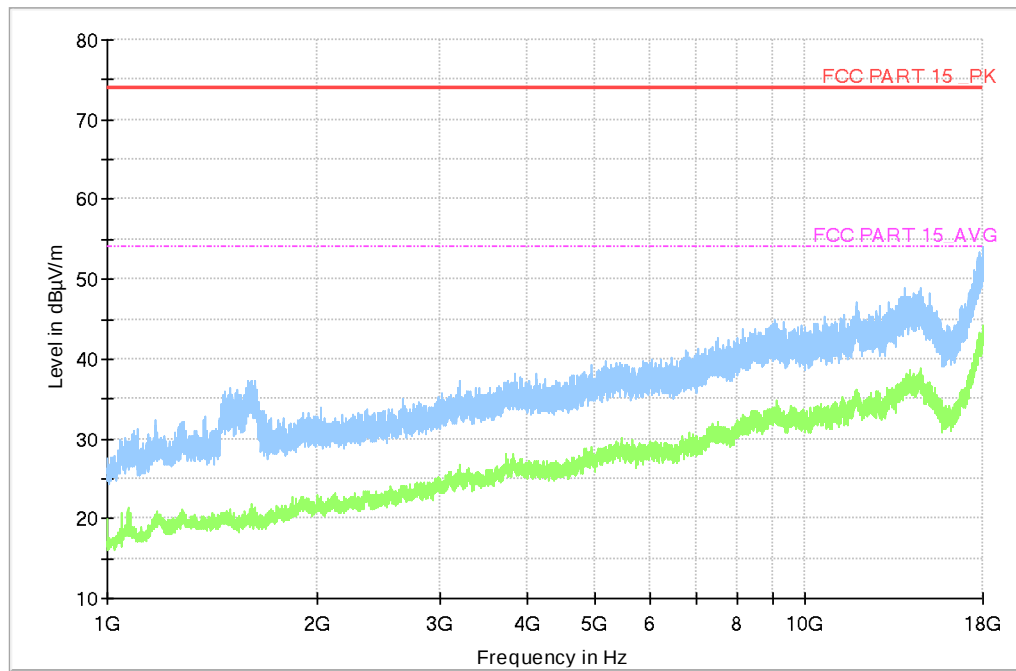


Fig A.2 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.2:

Full Spectrum

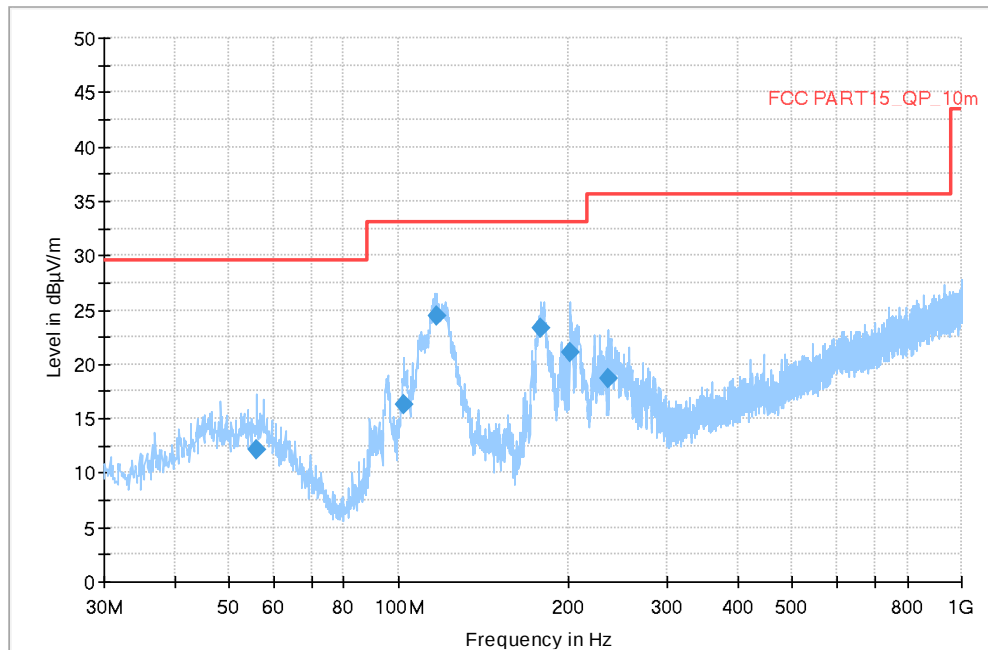


Fig A.3 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
55.996000	12.11	29.54	17.43	120.000	184.0	V	254.0
102.265000	16.37	33.06	16.69	120.000	125.0	V	189.0
116.524000	24.36	33.06	8.70	120.000	108.0	V	-45.0
178.895000	23.34	33.06	9.72	120.000	100.0	V	253.0
201.593000	21.01	33.06	12.05	120.000	275.0	V	253.0
236.319000	18.77	35.56	16.79	120.000	125.0	V	252.0

Full Spectrum

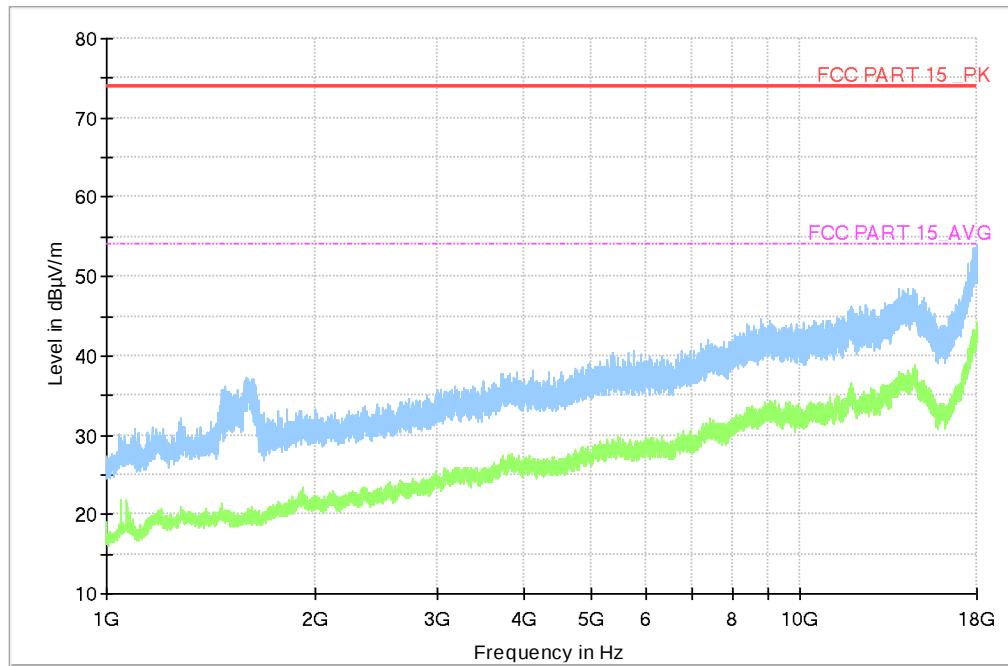


Fig A.4 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.3:

Full Spectrum

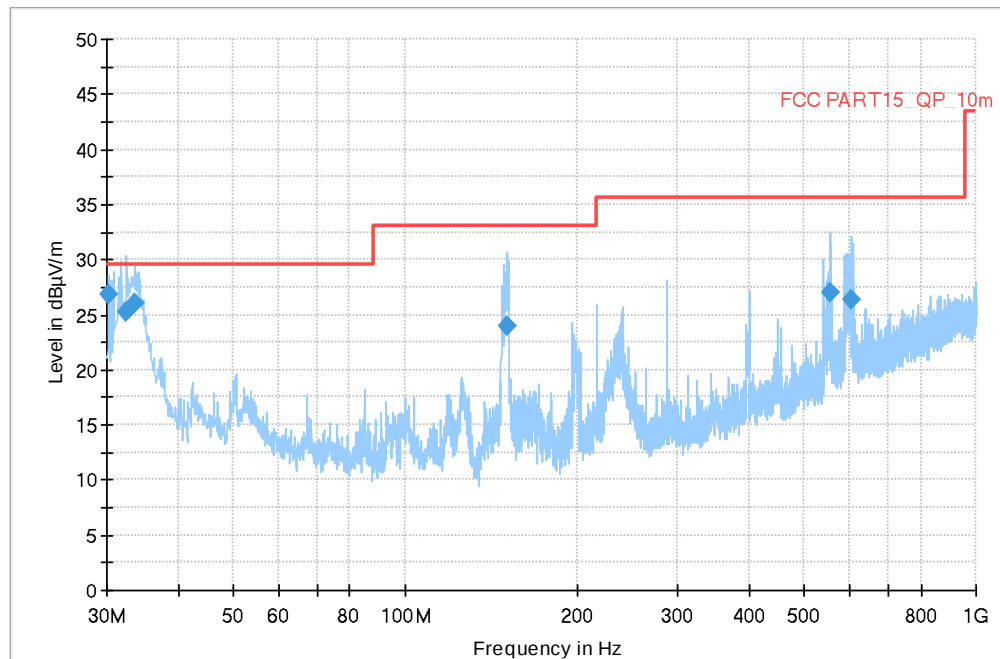


Fig A.5 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
30.291000	26.90	29.54	2.64	120.000	175.0	V	225.0
32.425000	25.30	29.54	4.24	120.000	302.0	V	239.0
33.589000	25.97	29.54	3.57	120.000	125.0	V	252.0
150.668000	23.94	33.06	9.12	120.000	100.0	V	-4.0
555.740000	26.95	35.56	8.61	120.000	223.0	V	-18.0
606.762000	26.39	35.56	9.17	120.000	225.0	V	-17.0

Full Spectrum

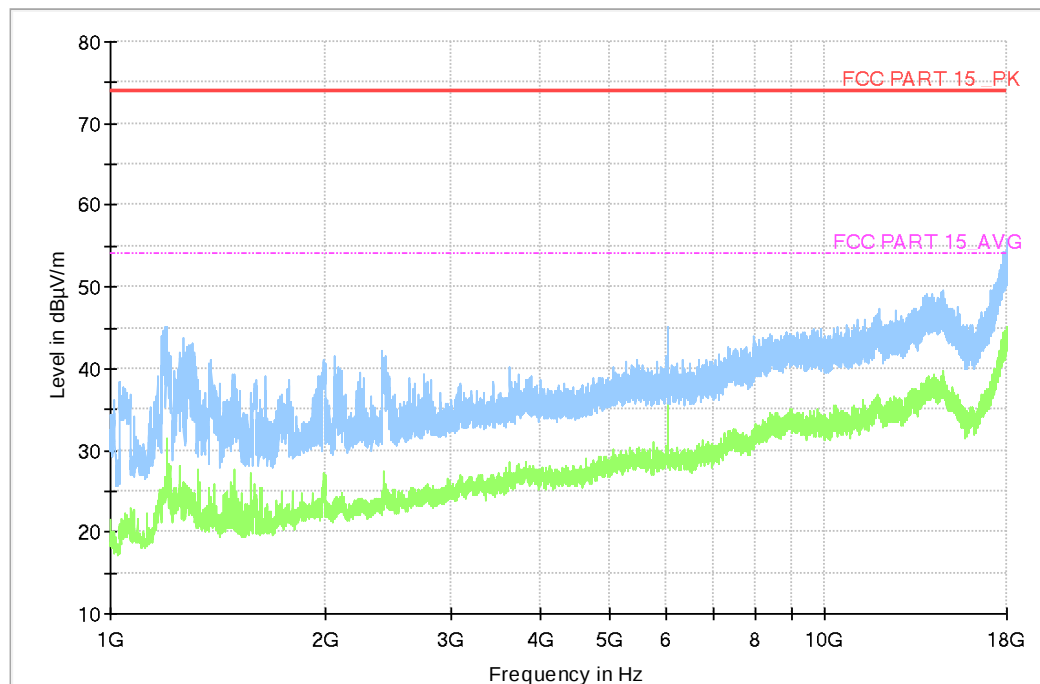


Fig A.6 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.4:

Full Spectrum

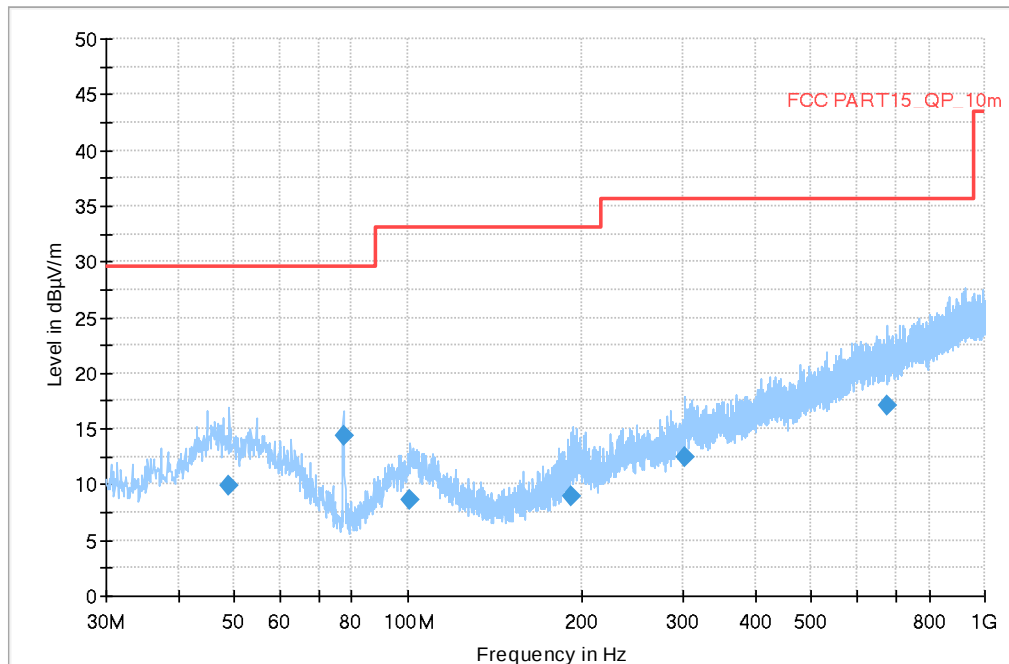


Fig A.7 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
49.012000	9.95	29.54	19.59	120.000	302.0	H	305.0
77.336000	14.40	29.54	15.14	120.000	175.0	V	74.0
101.004000	8.59	33.06	24.47	120.000	222.0	V	46.0
191.990000	8.99	33.06	24.07	120.000	225.0	V	315.0
302.279000	12.46	35.56	23.10	120.000	275.0	H	253.0
677.960000	17.09	35.56	18.47	120.000	202.0	V	225.0

Full Spectrum

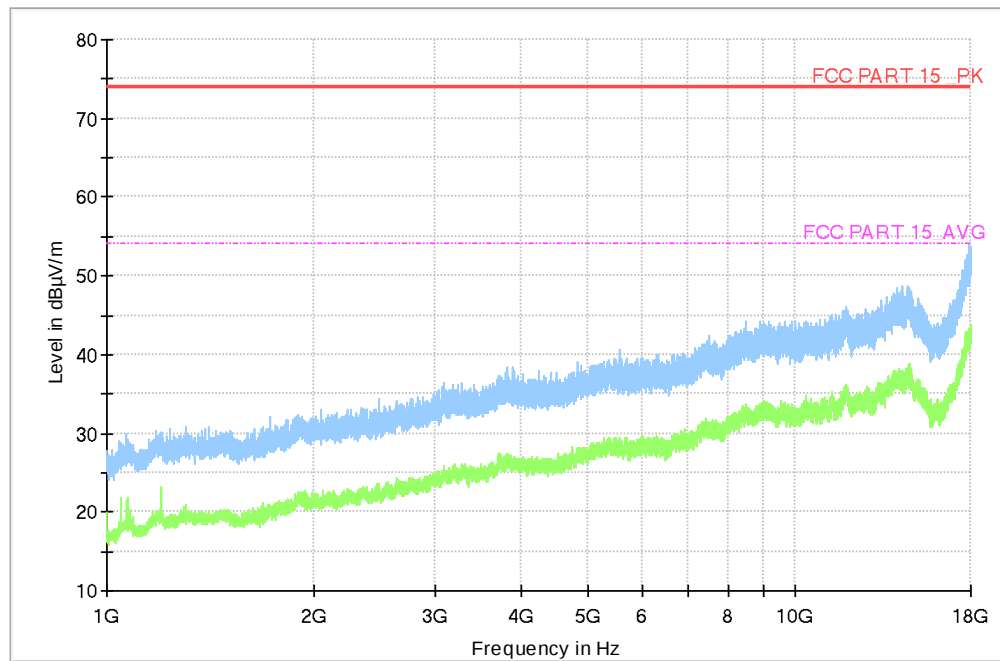


Fig A.8 Radiated Emission from 1GHz to 18GHz

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 (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: $U = 3.08 \text{ dB}$, $k=2$.

Charging Mode, Set.1:

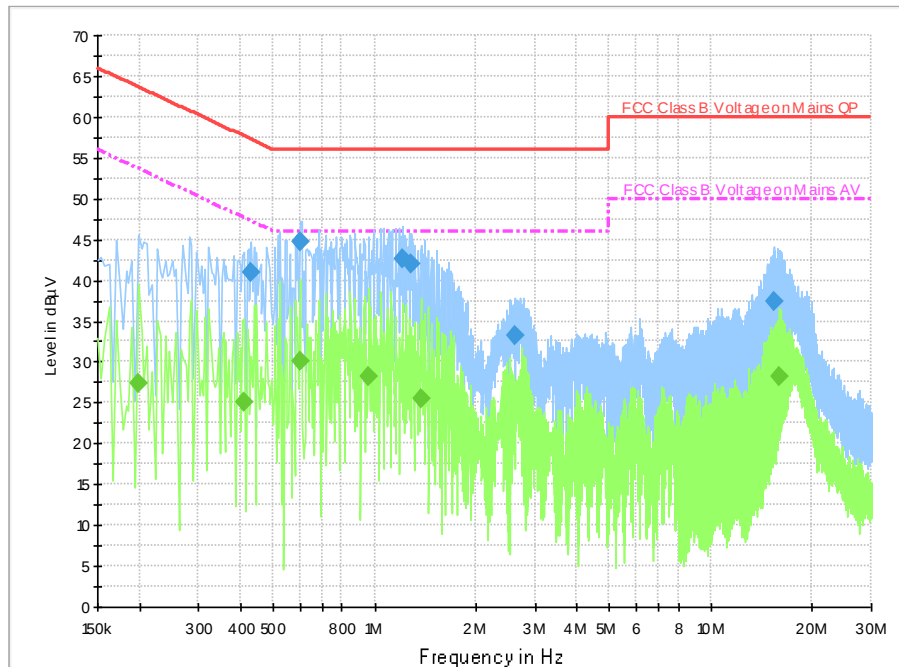


Fig A.9 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.430000	40.9	2000.0	9.000	On	N	19.7	16.4	57.3	
0.602000	44.7	2000.0	9.000	On	L1	19.7	11.4	56.0	
1.210000	42.6	2000.0	9.000	On	L1	19.6	13.4	56.0	
1.290000	42.0	2000.0	9.000	On	N	19.6	14.0	56.0	
2.614000	33.2	2000.0	9.000	On	N	19.6	22.8	56.0	
15.398000	37.4	2000.0	9.000	On	N	19.7	22.6	60.0	

Final Result 2

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.198000	27.3	2000.0	9.000	On	N	19.7	26.4	53.7	
0.410000	25.1	2000.0	9.000	On	L1	19.7	22.6	47.6	
0.598000	30.1	2000.0	9.000	On	N	19.6	15.9	46.0	
0.962000	28.2	2000.0	9.000	On	L1	19.7	17.8	46.0	
1.370000	25.5	2000.0	9.000	On	N	19.6	20.5	46.0	
15.934000	28.2	2000.0	9.000	On	N	19.7	21.8	50.0	

Charging Mode, Set.2:

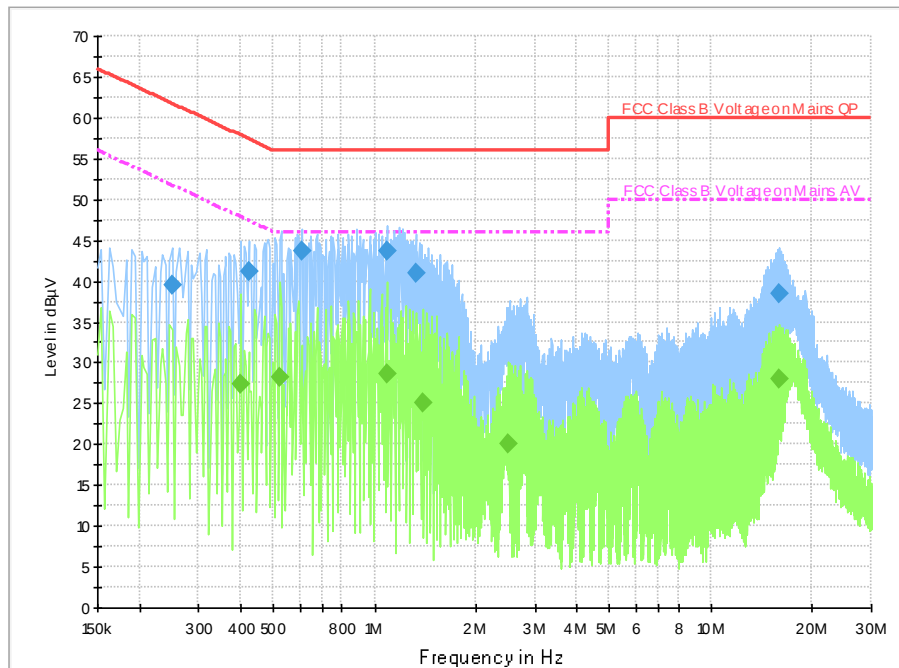


Fig A.10 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.250000	39.4	2000.0	9.000	On	L1	19.7	22.3	61.8	
0.422000	41.1	2000.0	9.000	On	N	19.7	16.3	57.4	
0.606000	43.6	2000.0	9.000	On	N	19.6	12.4	56.0	
1.086000	43.7	2000.0	9.000	On	N	19.6	12.3	56.0	
1.326000	41.0	2000.0	9.000	On	L1	19.6	15.0	56.0	
15.910000	38.4	2000.0	9.000	On	L1	19.7	21.6	60.0	

Final Result 2

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.402000	27.3	2000.0	9.000	On	L1	19.7	20.5	47.8	
0.522000	28.2	2000.0	9.000	On	N	19.7	17.8	46.0	
1.086000	28.6	2000.0	9.000	On	N	19.6	17.4	46.0	
1.390000	25.0	2000.0	9.000	On	N	19.6	21.0	46.0	
2.506000	20.0	2000.0	9.000	On	N	19.6	26.0	46.0	
15.898000	28.0	2000.0	9.000	On	L1	19.7	22.0	50.0	

USB Mode, Set.3:

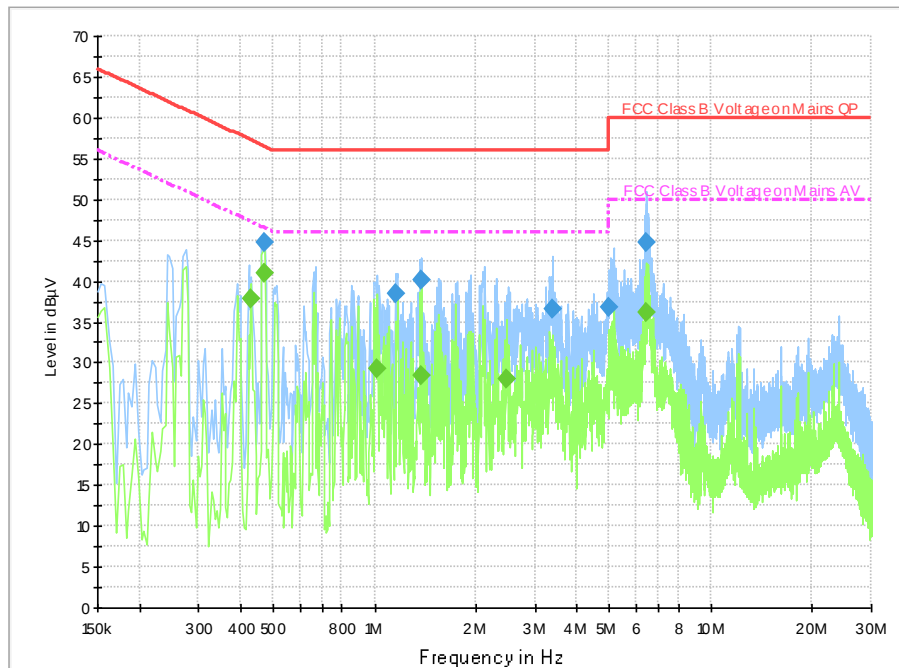


Fig A.11 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.470000	44.7	2000.0	9.000	On	N	19.7	11.8	56.5	
1.150000	38.5	2000.0	9.000	On	L1	19.7	17.5	56.0	
1.378000	40.1	2000.0	9.000	On	L1	19.6	15.9	56.0	
3.382000	36.5	2000.0	9.000	On	L1	19.6	19.5	56.0	
4.982000	36.7	2000.0	9.000	On	N	19.6	19.3	56.0	
6.438000	44.7	2000.0	9.000	On	L1	19.6	15.3	60.0	

Final Result 2

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.430000	37.7	2000.0	9.000	On	N	19.7	9.5	47.3	
0.470000	41.1	2000.0	9.000	On	L1	19.7	5.5	46.5	
1.022000	29.2	2000.0	9.000	On	L1	19.7	16.8	46.0	
1.378000	28.4	2000.0	9.000	On	N	19.6	17.6	46.0	
2.478000	27.9	2000.0	9.000	On	N	19.6	18.1	46.0	
6.438000	36.2	2000.0	9.000	On	L1	19.6	13.8	50.0	

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