TEST REPORT

No.25T04Z100239-001

for

TCL Communication Ltd.

GSM/UMTS/LTE/NR Mobile phone

T513SP

FCC ID: 2ACCJH187

with

Hardware Version: 04
Software Version: 9CS4

Issued Date: 2025-04-09

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.

Test Laboratory:

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
25T04Z100239-001	Rev.0	1st edition	2025-04-09

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

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1. Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under American Association for Laboratory Accreditation (A2LA) with lab code 7049.01, and is also an FCC accredited test laboratory (CN1349), and ISED accredited test laboratory (CAB identifier:CN0066). The detail accreditation scope can be found on A2LA website.

1.2. Testing Location

Location 1: CTTL(Huayuan North Road)

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

1.3. Testing Environment

Normal Temperature: 15-35℃

Relative Humidity: 20-75%

1.4. Project data

Testing Start Date: 2025-02-24

Testing End Date: 2025-03-17

1.5. Signature

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(Prepared this test report)

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(Approved this test report)

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2. Client Information

2.1. Applicant Information

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2.2. Manufacturer Information

Company Name:	TCL Communication Ltd.
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3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	GSM/UMTS/LTE/NR Mobile phone
Model Name	T513SP

Note: The EUT functions are described in Annex A of this test report. Specifications of the EUT were provided to fulfil the test. Samples undergoing test were selected by the client. 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

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
EUT1	016644000212792/ 016644000212800	04	9CS4	2025-02-24

*EUT ID: is used to identify the test sample in the lab internally. The HW and SW version were provided by the applicant.

3.3. Internal Identification of AE

AE ID*	Description	Model	Manufacturer	Note
AE1	USB Cable	CDA0000218C1	JUWEI	Data cable
AE2	Charger	/	Provided by the laboratory	---

*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	Charging
Set.2	EUT1 + AE1 + PC	Connected to PC
Set.3	EUT1 + AE1 + Mobile phone	OTG(Provide power for others)

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4. Reference Documents

4.1. Documents supplied by applicant

EUT parameters, referring to Annex A for detailed information, were supplied by the client or manufacturer, which is the basis of testing. CAICT is not responsible for the accuracy of customer supplied technical information that may affect the test results (for example, antenna gain and loss of customer supplied cable).

4.2. 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	2023
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.

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5. Test Results

Abbreviations used in this clause:		
Verdict Column	P	Pass
	F	Fail
	BR	Re-use test data from basic model report.
	NA	Not applicable
	NM	Not measured

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)

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6. Test Facilities Utilized

Test instruments list:

No.	Equipment	Model	Serial Number	Manufacturer	Calibration Period	Calibration Due date
1	LISN	ENV216	101200	R&S	1 year	2025-05-16
2	Test Receiver	ESCI	100344	R&S	1 year	2025-04-01
3	Universal Radio Communication Tester	CMW500	116588	R&S	1 year	2026-01-25
4	Test Receiver	ESW44	103023	R&S	1 year	2025-06-06
5	BiLog Antenna	VULB9163	01222	Schwarzbeck	1 year	2025-09-11
6	EMI Antenna	3115	00167250	ETS-Lindgren	1 year	2025-04-11
7	PC With mouse and keyboard	M4000e-17	M706GWXD	Lenovo	N/A	N/A
8	Printer	P1606dn	VNC3L52122	HP	N/A	N/A
9	Universal Radio Communication Tester	CMW500	116588	R&S	1 year	2026-01-25

Note: the No.3 equipment was in calibration due date when used for testing.

Test software list:

Test Item	Test Software	Software Vendor
Radiated Emission	EMC32	R&S
Conducted Emission	EMC32	R&S

Semi-anechoic chamber utilized did not exceed following limits along the 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, 10 m distance
Site voltage standing-wave ratio (S_{VSWR})	Between 0 and 6 dB, from 1GHz to 18GHz

Shielded room utilized did not exceed following limits along the 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

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7. Measurement Uncertainty

Where relevant, the following measurement uncertainty(worse case) levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Location 1: CTTL(huayuan North Road)

Test item	Frequency ranges	Measurement uncertainty
Radiated Emission	30MHz-1GHz	5.15dB(*k*=2)
	1GHz-18GHz	5.54dB(*k*=2)
Conducted Emission	150kHz-30MHz	AC Power Line: 3.08dB(*k*=2)

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ANNEX A: EUT parameters

Cellular Bands operate between 30MHz-960MHz	☑GSM	Band 850
	☑WCDMA	Band V
	☑LTE	Band 5/12/13
	☑5G NR SA	Band 5
Other FCC Part 15B related features	☑FM ☐MP3 ☑Video ☑Camera ☑USB data/charging/OTG	

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ANNEX B: Detailed Test Results

B.1. Radiated Emission

Reference: FCC Part 15.109(a).

Method of measurement: The field strength of radiated emissions from the unintentional radiator at distances of 10 meters(for 30MHz-1GHz) and 3 meters (for above 1GHz) were tested. The test was 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 the specified distance from the EUT. During the test, 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.

EUT operating mode: The EUT was operating in the USB data and/or charging mode. During the test, the EUT was 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 Annex A, were investigated. Only the worst case emissions are reported. All equipment was 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.

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. The limits for 10 meters distance is got by converting: Limit(10m) = Limit(3m) + 20[log(3/10)], which is according to FCC 15.109(g)(2)

Test settings:

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

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

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Where

G_A: Antenna factor of receive antenna

G_{PL}: Path Loss

P_{Mea}: Measurement result on receiver.

Note: The measurement results showed as followed are worst cases, and the combinations of different batteries, cables and headsets were considered if applicable.

EUT1 Front camera, GSM 850, MP3 and charger mode, Set.1

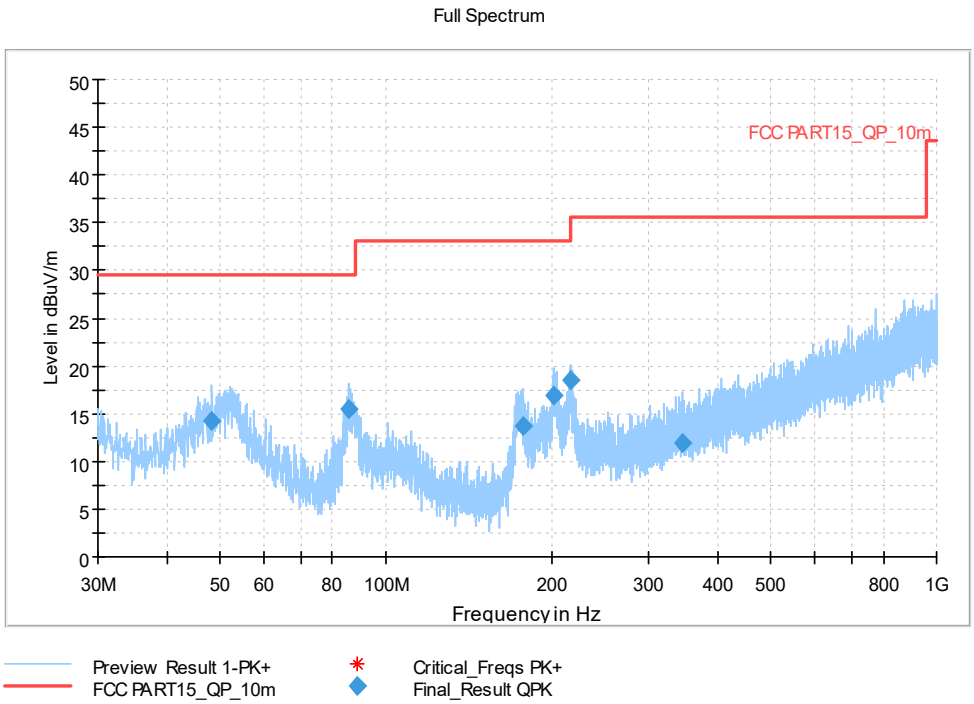

Figure A.1 Radiated Emission from 30MHz to 1GHz

QP detector

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
48.333000	14.26	29.54	15.28	120.000	100.0	V	-44.0
85.484000	15.52	29.54	14.02	120.000	194.0	V	293.0
176.955000	13.67	33.06	19.39	120.000	206.0	V	255.0
201.835500	16.92	33.06	16.14	120.000	283.0	H	27.0
216.531000	18.53	35.56	17.03	120.000	119.0	V	158.0
344.813500	11.96	35.56	23.60	120.000	225.0	V	-22.0

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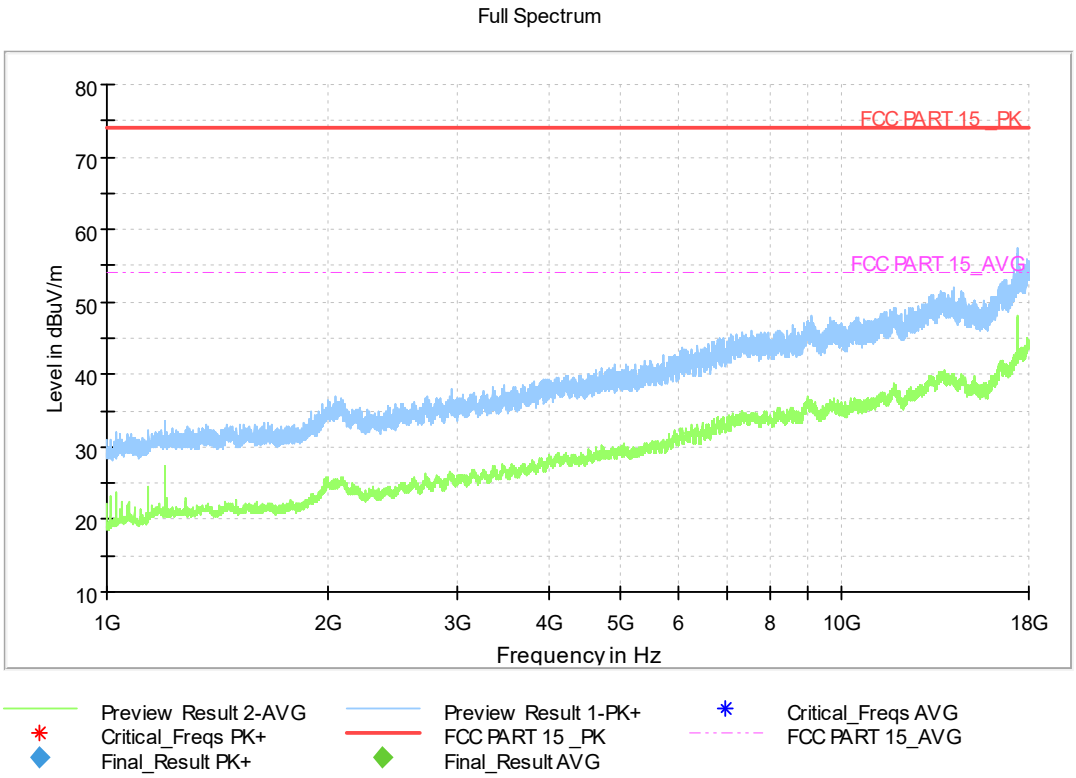

Figure A.2 Radiated Emission from 1GHz to 18GHz

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)
17357.1	48.1	-27.46	42.1	33.46	54	5.9	H
17356.7	47.98	-27.46	42.1	33.34	54	6.02	H
17354.3	47.78	-27.46	42.1	33.14	54	6.22	H
17354	45.68	-27.46	42.1	31.04	54	8.32	H
17918.1	45	-26.8	42.3	29.5	54	9	H
17934	44.66	-26.8	42.3	29.16	54	9.34	V

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)
17357.1	57.51	-27.46	42.1	42.87	74	16.49	H
17354.3	56.56	-27.46	42.1	41.92	74	17.44	H
17354	56.22	-27.46	42.1	41.58	74	17.78	H
17401.9	56.06	-28.04	42.1	42	74	17.94	H
17919.4	55.77	-26.8	42.3	40.27	74	18.23	H
17951	55.74	-26.8	42.3	40.24	74	18.26	V

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EUT1 LTE Band 5 idle, rear camera, FM and charger mode, Set.1

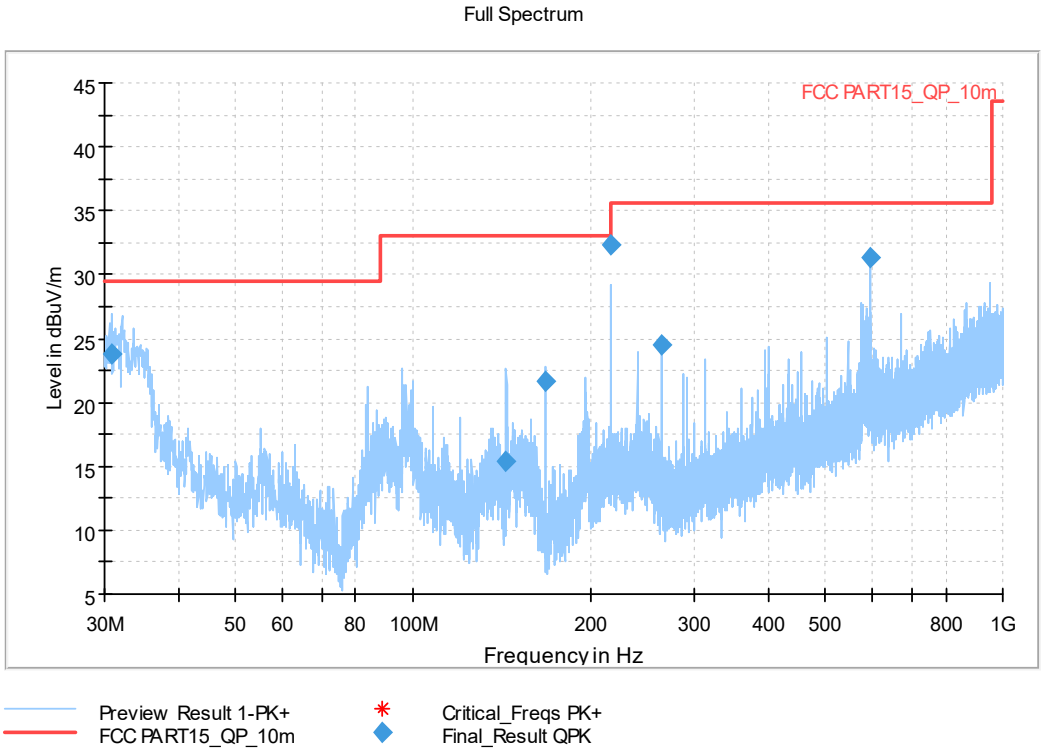

Figure A.3 Radiated Emission from 30MHz to 1GHz

QP detector

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
30.921500	23.77	29.54	5.77	120.000	125.0	V	215.0
144.023500	15.40	33.06	17.66	120.000	125.0	V	46.0
167.982500	21.62	33.06	11.44	120.000	325.0	H	45.0
215.997500	32.38	33.06	0.68	120.000	108.0	V	126.0
263.964000	24.46	35.56	11.10	120.000	204.0	H	164.0
594.685500	31.32	35.56	4.24	120.000	225.0	V	299.0

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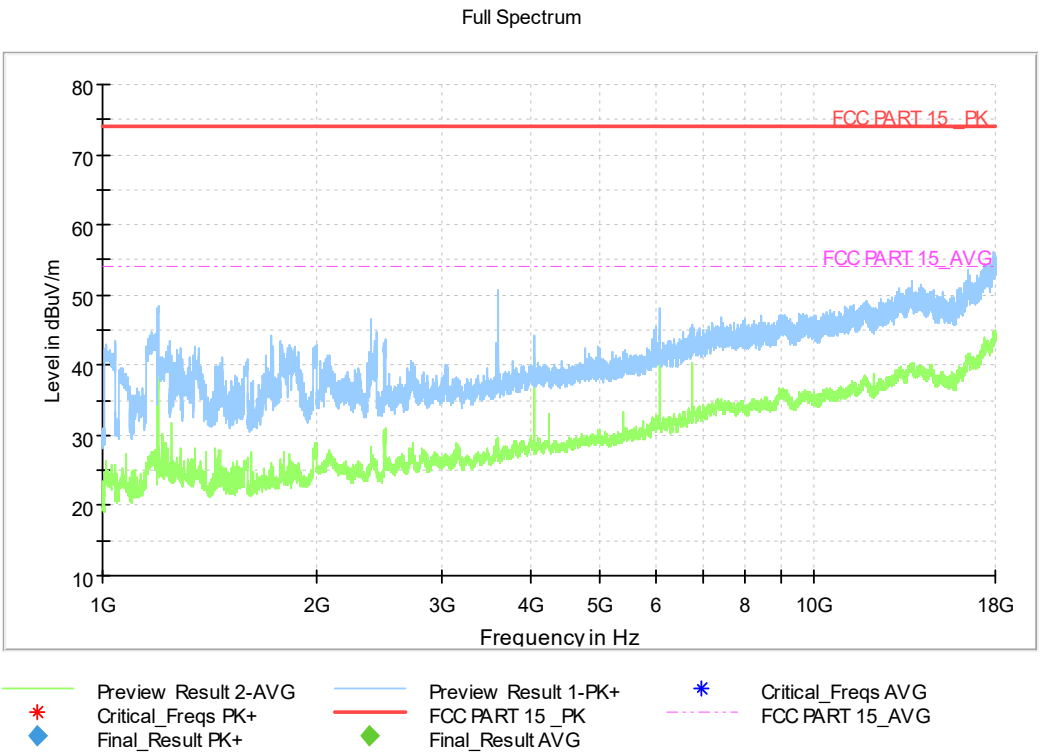

Figure A.4 Radiated Emission from 1GHz to 18GHz

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)
6056.1	45.36	-36.15	35.4	46.11	54	8.64	V
17920.8	44.81	-26.8	42.3	29.31	54	9.19	H
6056.5	44.68	-36.15	35.4	45.43	54	9.32	V
17937.4	44.58	-26.8	42.3	29.08	54	9.42	H
17926.6	44.56	-26.8	42.3	29.06	54	9.44	H
17940.2	44.55	-26.8	42.3	29.05	54	9.45	V

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)
17943.9	56.02	-26.8	42.3	40.52	74	17.98	V
17953.4	55.7	-26.8	42.3	40.2	74	18.3	H
17939.5	55.49	-26.8	42.3	39.99	74	18.51	H
17920.1	55.44	-26.8	42.3	39.94	74	18.56	H
17981.3	55.32	-26.8	42.3	39.82	74	18.68	V
17985.7	55.32	-26.8	42.3	39.82	74	18.68	V

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EUT1 USB connected to PC and NR n5 idle mode, Set.2

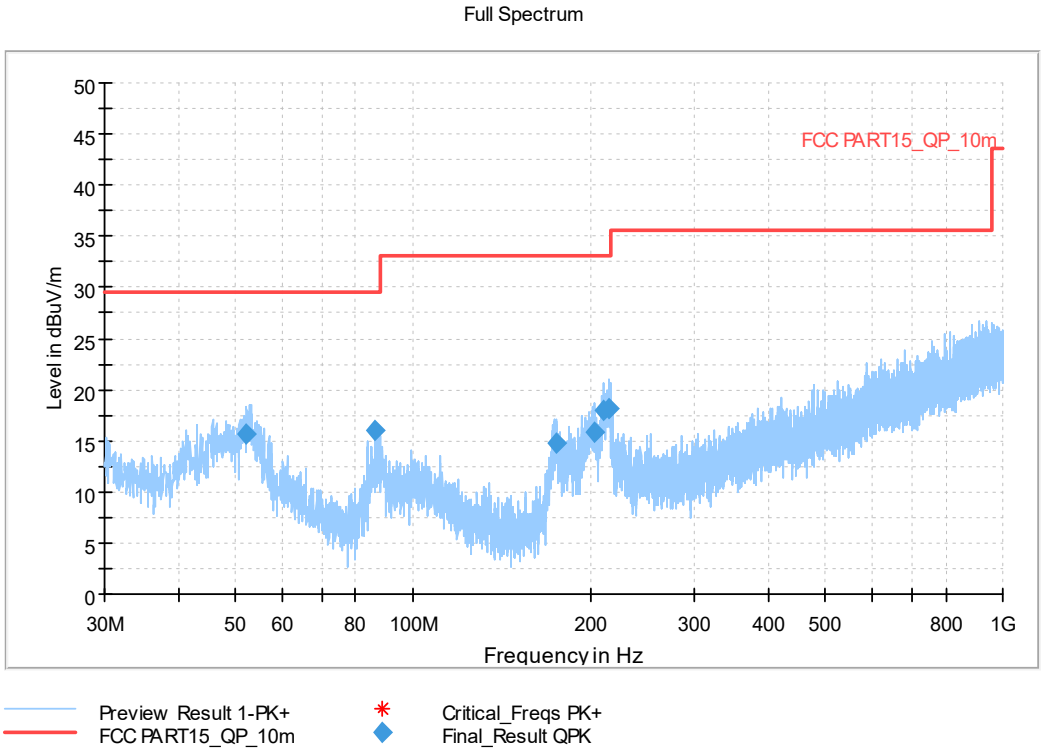

Figure A.5 Radiated Emission from 30MHz to 1GHz

QP detector

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
52.261500	15.65	29.54	13.89	120.000	119.0	V	17.0
86.260000	16.08	29.54	13.46	120.000	175.0	V	293.0
174.772500	14.79	33.06	18.27	120.000	108.0	V	255.0
202.611500	15.89	33.06	17.17	120.000	275.0	H	6.0
210.662500	17.95	33.06	15.11	120.000	294.0	V	274.0
214.639500	18.12	33.06	14.94	120.000	317.0	V	278.0

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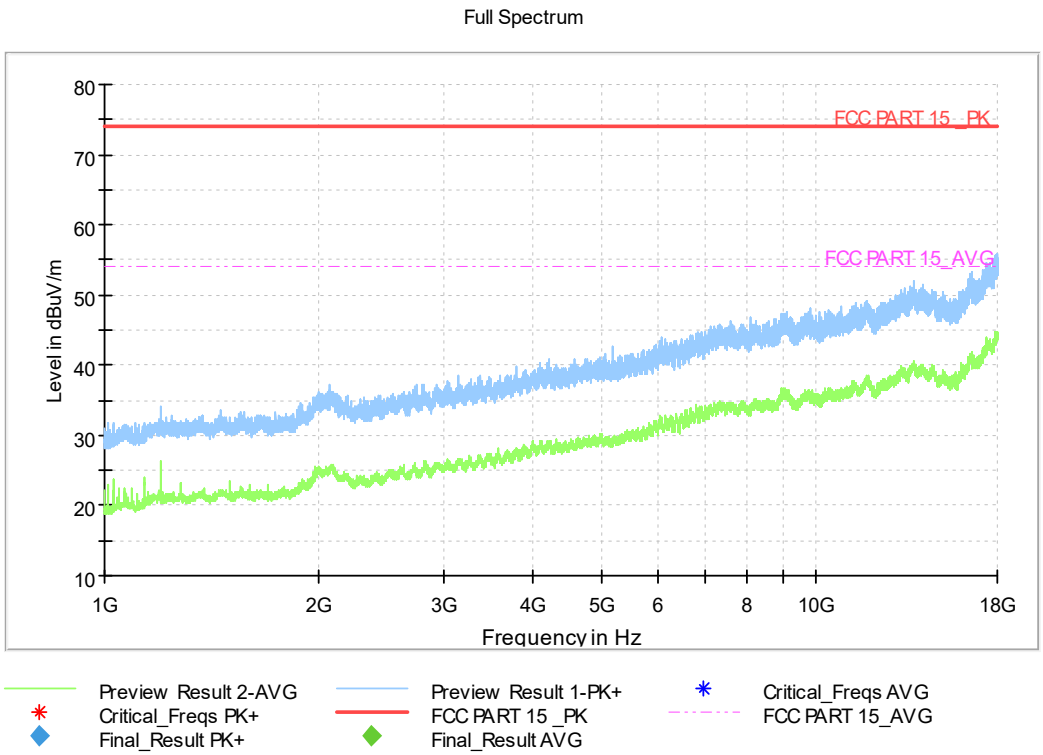

Figure A.6 Radiated Emission from 1GHz to 18GHz

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)
17947.3	44.59	-26.8	42.3	29.09	54	9.41	H
17979.9	44.57	-26.8	42.3	29.07	54	9.43	V
17915	44.54	-26.8	42.3	29.04	54	9.46	V
17911.3	44.5	-26.8	42.3	29	54	9.5	H
17930.6	44.5	-26.8	42.3	29	54	9.5	H
17986.7	44.49	-26.8	42.3	28.99	54	9.51	V

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)
17906.5	56.06	-26.8	42.3	40.56	74	17.94	H
17975.9	55.6	-26.8	42.3	40.1	74	18.4	H
17911.6	55.55	-26.8	42.3	40.05	74	18.45	V
17917.7	55.47	-26.8	42.3	39.97	74	18.53	H
17944.6	55.36	-26.8	42.3	39.86	74	18.64	V
17931.3	55.32	-26.8	42.3	39.82	74	18.68	H

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EUT1 USB connected to another mobile phone and LTE idle mode, Set.3

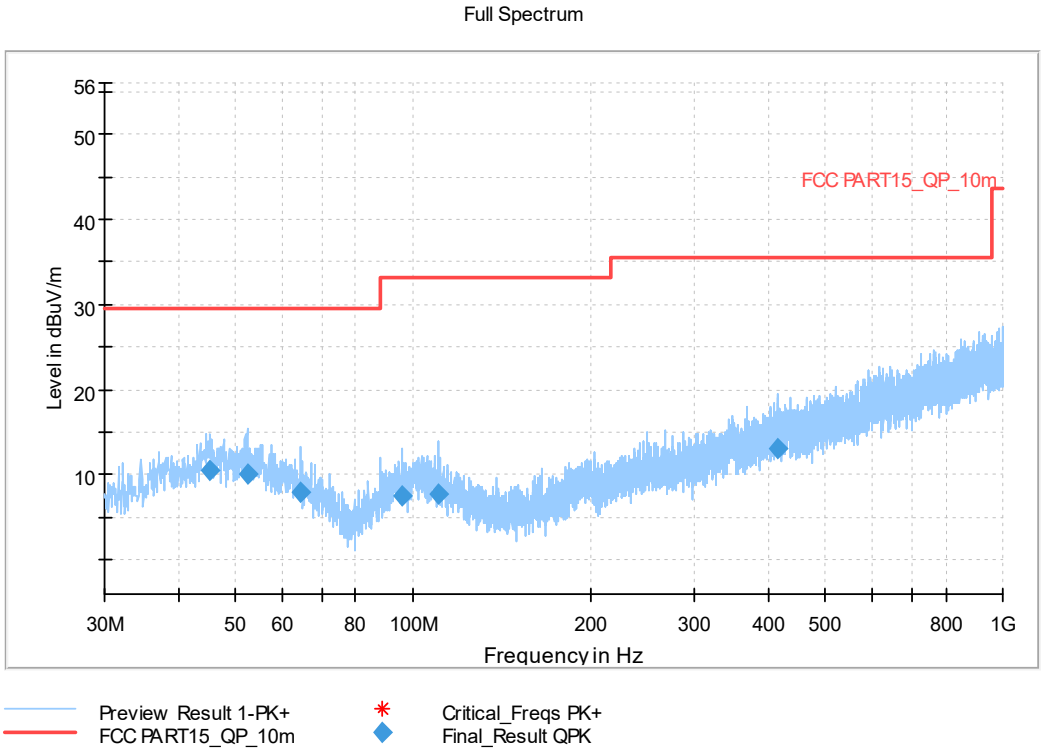

Figure A.7 Radiated Emission from 30MHz to 1GHz

QP detector

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
45.374500	10.60	29.54	18.94	120.000	221.0	V	135.0
52.358500	10.09	29.54	19.45	120.000	108.0	V	45.0
64.580500	7.97	29.54	21.57	120.000	108.0	V	98.0
96.154000	7.49	33.06	25.57	120.000	125.0	H	225.0
110.364500	7.78	33.06	25.28	120.000	175.0	H	128.0
416.593500	13.17	35.56	22.39	120.000	125.0	V	226.0

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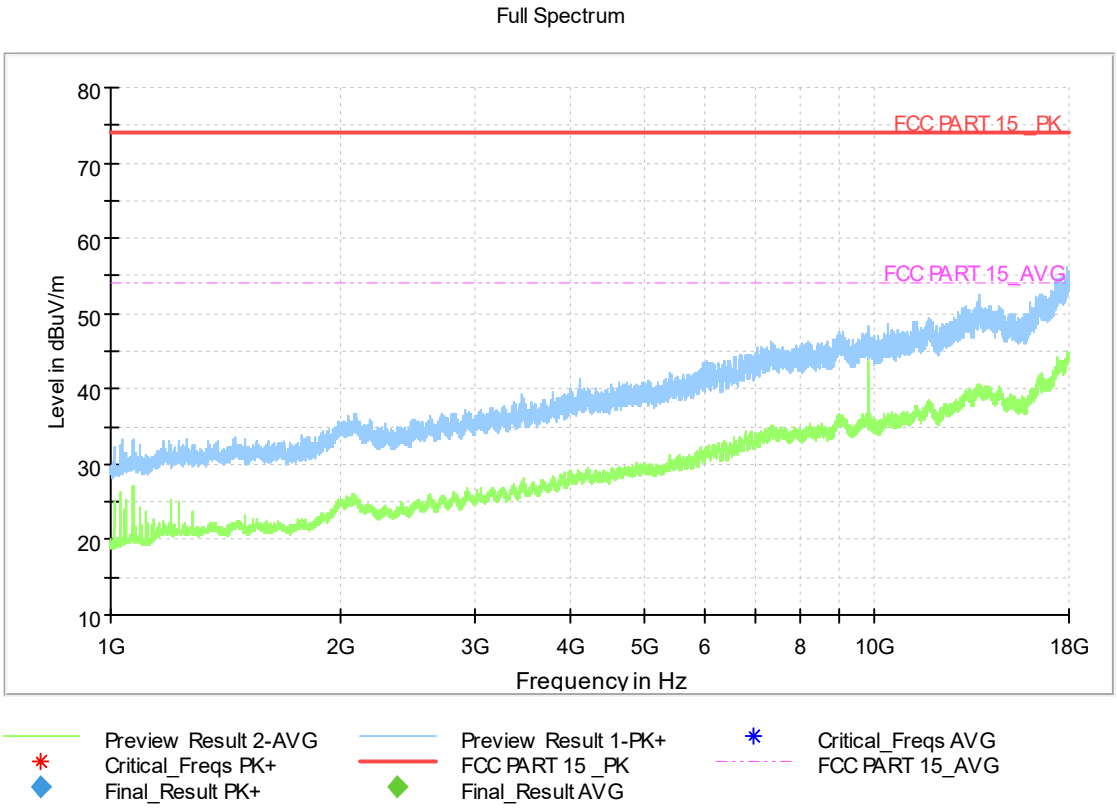

Figure A.8 Radiated Emission from 1GHz to 18GHz

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)
17931.3	44.65	-26.8	42.3	29.15	54	9.35	V
17995.2	44.58	-26.8	42.3	29.08	54	9.42	V
17953.8	44.49	-26.8	42.3	28.99	54	9.51	V
17978.9	44.49	-26.8	42.3	28.99	54	9.51	V
17951.4	44.48	-26.8	42.3	28.98	54	9.52	H
17987.8	44.45	-26.8	42.3	28.95	54	9.55	H

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)
17972.8	55.81	-26.8	42.3	40.31	74	18.19	H
17912.3	55.6	-26.8	42.3	40.1	74	18.4	H
17913	55.55	-26.8	42.3	40.05	74	18.45	V
17926.2	55.35	-26.8	42.3	39.85	74	18.65	V
17930.6	55.32	-26.8	42.3	39.82	74	18.68	V
17928.3	55.26	-26.8	42.3	39.76	74	18.74	H

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B.2. Conducted Emission

Reference: FCC: Part 15.107(a).

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.

EUT operating mode: The EUT is operating in the charging mode and USB data mode if applicable.

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		

Test Settings:

Voltage(V)	Frequency(Hz)
120	60

RBW/IF bandwidth	Sweep Time(s)
9kHz	1

Measurement results:

The measurement results showed as followed are worst cases, and the combinations of different batteries, cables and headsets were considered if applicable.

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EUT1 Rear camera, FM, LTE Band 5 idle and charger mode, Set.1

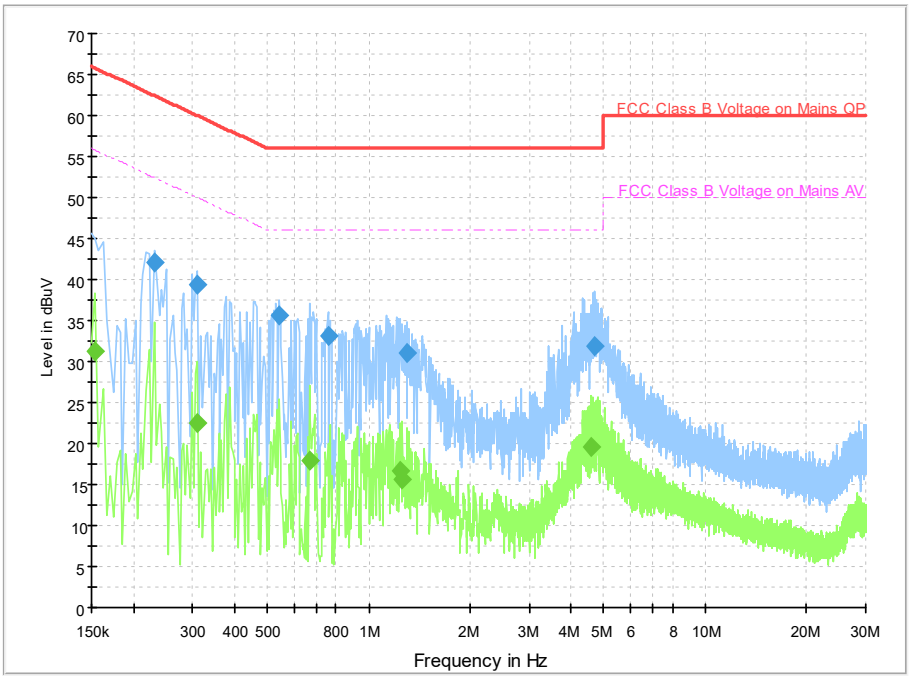

Figure A.9 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.230000	42.1	2000.0	9.000	On	N	19.8	20.4	62.4
0.310000	39.4	2000.0	9.000	On	L1	19.9	20.6	60.0
0.542000	35.6	2000.0	9.000	On	N	19.9	20.4	56.0
0.758000	33.2	2000.0	9.000	On	N	19.8	22.8	56.0
1.302000	31.1	2000.0	9.000	On	N	19.7	24.9	56.0
4.698000	31.9	2000.0	9.000	On	N	19.6	24.1	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.154000	31.2	2000.0	9.000	On	L1	20.0	24.6	55.8
0.310000	22.6	2000.0	9.000	On	L1	19.9	27.4	50.0
0.666000	17.8	2000.0	9.000	On	N	19.8	28.2	46.0
1.234000	16.7	2000.0	9.000	On	N	19.7	29.3	46.0
1.262000	15.7	2000.0	9.000	On	N	19.7	30.3	46.0
4.574000	19.5	2000.0	9.000	On	N	19.6	26.5	46.0

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EUT1 GSM850 idle, front camera, MP3 and charger mode, Set.1

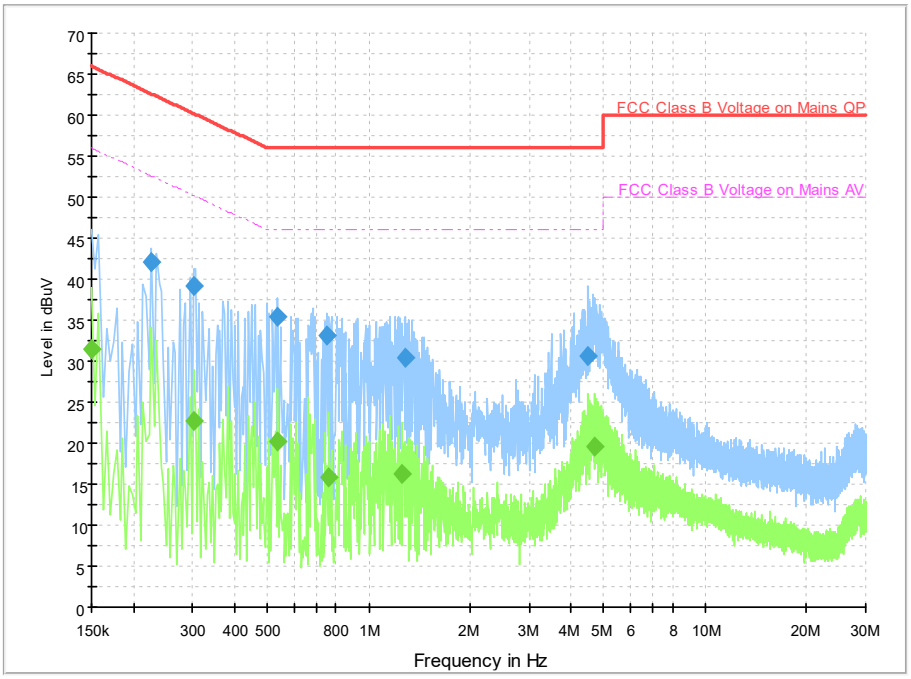

Figure A.10 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.226000	42.1	2000.0	9.000	On	N	19.8	20.5	62.6
0.302000	39.2	2000.0	9.000	On	L1	19.9	21.0	60.2
0.538000	35.4	2000.0	9.000	On	N	19.9	20.6	56.0
0.754000	33.2	2000.0	9.000	On	N	19.8	22.8	56.0
1.278000	30.5	2000.0	9.000	On	N	19.7	25.5	56.0
4.502000	30.5	2000.0	9.000	On	N	19.6	25.5	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	31.5	2000.0	9.000	On	N	20.1	24.5	56.0
0.302000	22.8	2000.0	9.000	On	L1	19.9	27.4	50.2
0.538000	20.1	2000.0	9.000	On	L1	20.0	25.9	46.0
0.762000	15.8	2000.0	9.000	On	N	19.8	30.2	46.0
1.258000	16.3	2000.0	9.000	On	L1	19.9	29.7	46.0
4.698000	19.6	2000.0	9.000	On	N	19.6	26.4	46.0

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EUT1 USB connected to PC and NR n5 idle mode, Set.2

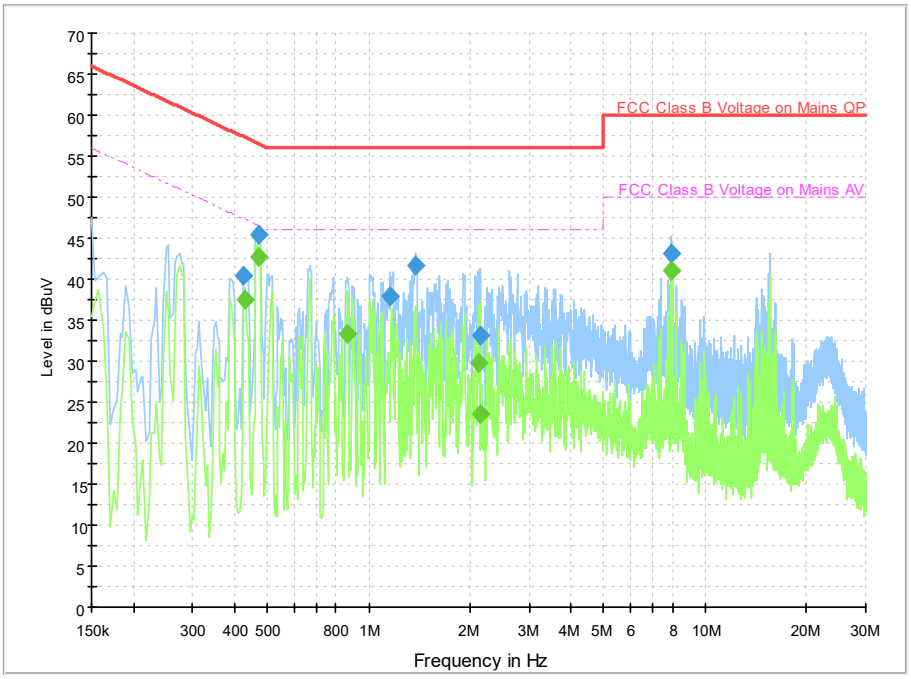

Figure A.11 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.426000	40.4	2000.0	9.000	On	L1	20.0	16.9	57.3
0.470000	45.4	2000.0	9.000	On	L1	20.0	11.1	56.5
1.154000	37.9	2000.0	9.000	On	N	19.7	18.1	56.0
1.378000	41.7	2000.0	9.000	On	L1	19.9	14.3	56.0
2.142000	33.1	2000.0	9.000	On	L1	19.8	22.9	56.0
7.926000	43.1	2000.0	9.000	On	L1	19.9	16.9	60.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.430000	37.6	2000.0	9.000	On	N	19.9	9.7	47.3
0.470000	42.7	2000.0	9.000	On	L1	20.0	3.8	46.5
0.866000	33.4	2000.0	9.000	On	N	19.8	12.6	46.0
2.110000	29.8	2000.0	9.000	On	L1	19.8	16.2	46.0
2.142000	23.6	2000.0	9.000	On	L1	19.8	22.4	46.0
7.926000	41.0	2000.0	9.000	On	L1	19.9	9.0	50.0

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ANNEX C: Persons involved in this testing

Test Item	Tester
Radiated Emission	Guo Zilong
Conducted Emission	Chen Tianwei

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

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