



TEST REPORT

No. I20Z62284-EMC01

for

TCL Communication Ltd.

HSUPA/HSDPA/UMTS 7 Bands/GSM Quad Bands/LTE 13 bands
mobile phone

Model Name: T782P

FCC ID: 2ACCJN051

with

Hardware Version: 03

Software Version: 5EID

Issued Date: 2021-01-15

Note:

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I20Z62284-EMC01	Rev.0	1 st edition	2021-01-15

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

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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 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

CTTL (BDA)

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

1.3. Testing Environment

Normal Temperature: 15-35°C

Relative Humidity: 20-75%

1.4. Project data

Testing Start Date: 2020-12-24

Testing End Date: 2021-1-15

1.5. Signature



Li Yan

(Prepared this test report)



Zhang Ying

(Reviewed this test report)



Zhang Xia

Deputy Director of the laboratory

(Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name: TCL Communication Ltd.
Address /Post: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science
Park, Shatin, NT, Hong Kong
City: /
Contact: Gong Zhizhou
E-mail: zhizhou.gong@tcl.com
Telephone: 0086-755-36611722
Fax: 0086-755-36612000-81722

2.2. Manufacturer Information

Company Name: TCL Communication Ltd.
Address /Post: 5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science
Park, Shatin, NT, Hong Kong
City: /
Contact: Gong Zhizhou
E-mail: zhizhou.gong@tcl.com
Telephone: 0086-755-36611722
Fax: 0086-755-36612000-81722

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

3.1. About EUT

Description	HSUPA/HSDPA/UMTS 7 Bands/GSM Quad Bands/LTE 14 bands mobile phone
Model Name	T782P
FCC ID	2ACCJN051
Extreme vol. Limits	3.6VDC to 4.4VDC (nominal: 3.85VDC)

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*	IME/SNI	HW Version	SW Version
EUT3	352430520005276	03	5EID

*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	Charger	/	/
AE2	USB cable	/	/
AE3	Battery	/	/

AE1

Model	S008ACM0500200
Manufacturer	TENPAO
Length of cable	/

AE2

Model	CDA0000123C2
Manufacturer	Shenghua
Length of cable	/

AE3

Model	TLp043D1
Manufacturer	BYD
Capacitance	4360mAh
Nominal voltage	3.85V

Note: The USB cables are shielded.

3.4. General Description

The device contains receivers which tune and operate between 30MHz-960MHz in the following bands: GSM850, WCDMA BAND 5, LTE BAND 5, LTE BAND 12, LTE BAND 13, LTE BAND 18, LTE BAND 19 and LTE BAND 26.



3.5. EUT set-ups

EUT set-up No.	Combination of EUT and AE	Remarks
Set.1	EUT3 + AE1 + AE2+ AE3	Charger
Set.2	EUT3 + AE2+ AE3	USB

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 (23 meters×17 meters×10 meters) 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	< 4Ω
Normalised site attenuation (NSA)	< ± 4 dB, 3m/10m 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 6000 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. = 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, 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 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
	BR	Re-use test data from basic model report.

Items	Test Name	Clause in FCC rules	Section in this report	Verdict	Test Location
1	Radiated Emission	15.109(a)	A.1	P	CTTL(BDA)
2	Conducted Emission	15.107(a)	A.2	P	CTTL(BDA)

7. Test Equipments Utilized

NO.	Description	TYPE	SERIES NUMBER	MANUFACTURE	CAL DUE DATE	CALIBRATION INTERVAL
1	Test Receiver	ESU26	100376	R&S	2021-09-04	1 year
2	Test Receiver	ESCI	100766	R&S	2021-03-10	1 year
3	Universal Radio Communication Tester	CMW500	127406	R&S	2021-02-18	1 year
4	LISN	ENV216	101459	R&S	2021-03-17	1 year
5	BiLog Antenna	VULB9163	9163-514	Schwarzbeck	2021-02-24	1 year
6	EMI Antenna	3117	00058888	ETS-Lindgren	2021-04-18	1 year
7	Signal Generator	SMF100A	101295	R&S	2021-11-05	1 year
8	Universal Radio Communication Tester	CMW500	159408	R&S	2021-03-03	1 year
9	Printer	P1606dn	VNC3L52122	HP	N/A	N/A
10	Keyboard	KU-1601	2048361	Lenovo	N/A	N/A
11	Mouse	EMS-537A	8021S3MC	Lenovo	N/A	N/A
12	PC	M4000e-17	M706RMW2	Lenovo	N/A	N/A

Test Item	Test Software and Version	Software Vendor
Radiated Continuous Emission	EMC32 V9.01.00	R&S
Conducted Emission	EMC32 V8.52.0	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 mode of MS and charging mode of MS) at distances of 3 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 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, charging mode, MP4, CAMERA, SD and License RX band 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 the 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.

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:

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

Where

G_A : Antenna factor of receive antenna

G_{PL} : Path Loss

P_{Mea} : Measurement result on receiver.

Measurement uncertainty (worst case): 30MHz-1GHz: 5.40dB, 1GHz-18GHz: 4.32dB, $k=2$.

Measurement results for Set.1:

Charger+ Camera + RX GSM850 /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)
17688.000	39.27	-22.2	41.2	20.18	54.0	14.7	V
17687.000	39.23	-22.1	41.2	20.14	54.0	14.8	H
17782.500	39.22	-22.4	41.3	20.33	54.0	14.8	V
17711.000	39.21	-22.2	41.2	20.17	54.0	14.8	H
17686.500	39.19	-22.1	41.2	20.10	54.0	14.8	V
17900.000	39.16	-22.6	41.3	20.50	54.0	14.8	V

Charger+ Camera+ RX GSM850 /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)
17585.500	51.8	-22.3	41.2	32.94	74.0	22.2	V
17102.000	51.7	-23.0	41.6	33.09	74.0	22.3	H
17248.000	51.5	-22.8	41.5	32.87	74.0	22.5	H
17699.000	51.4	-22.2	41.2	32.36	74.0	22.6	H
17885.500	51.4	-22.6	41.3	32.70	74.0	22.6	V
17028.000	51.3	-23.0	41.7	32.64	74.0	22.7	V

Measurement results for Set.1:
Charger+ MP4+RX LTE B12 /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)
17703.500	39.32	-22.2	41.2	20.26	54.0	14.7	V
17697.000	39.23	-22.2	41.2	20.17	54.0	14.8	V
17683.000	39.21	-22.1	41.2	20.12	54.0	14.8	V
17901.000	39.21	-22.6	41.3	20.55	54.0	14.8	V
17747.500	39.20	-22.3	41.2	20.24	54.0	14.8	V
17705.500	39.18	-22.2	41.2	20.13	54.0	14.8	V

Charger+ MP4+RX LTE B12 /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)
17776.000	51.49	-22.4	41.3	32.59	74.0	22.5	H
17005.500	51.27	-23.0	41.7	32.59	74.0	22.7	V
17983.000	51.23	-22.8	41.3	32.72	74.0	22.8	V
17742.500	51.20	-22.3	41.2	32.23	74.0	22.8	V
17684.000	51.18	-22.1	41.2	32.09	74.0	22.8	V
16778.500	51.16	-23.0	41.6	32.59	74.0	22.8	H

Measurement results for Set.2:
USB (SD) mode+ RX LTE B26 /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)
17902.000	38.82	-22.6	41.3	20.16	54.0	15.2	V
17646.000	38.81	-22.1	41.2	19.63	54.0	15.2	H
17699.000	38.80	-22.2	41.2	19.74	54.0	15.2	H
17686.000	38.80	-22.1	41.2	19.70	54.0	15.2	H
17686.500	38.78	-22.1	41.2	19.69	54.0	15.2	V
17691.500	38.78	-22.2	41.2	19.70	54.0	15.2	V

USB (SD) mode+ RX LTE B26 /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)
16332.000	51.9	-23.1	41.2	33.83	74.0	22.1	V
17685.000	51.6	-22.1	41.2	32.49	74.0	22.4	H
17636.500	51.4	-22.0	41.2	32.24	74.0	22.6	V
17767.000	51.4	-22.3	41.3	32.48	74.0	22.6	V
17787.500	51.3	-22.4	41.3	32.44	74.0	22.7	V
17756.000	51.3	-22.3	41.3	32.33	74.0	22.7	H

Charger+ Camera + RX GSM850, Set.1

15B RE 30MHz-1GHz

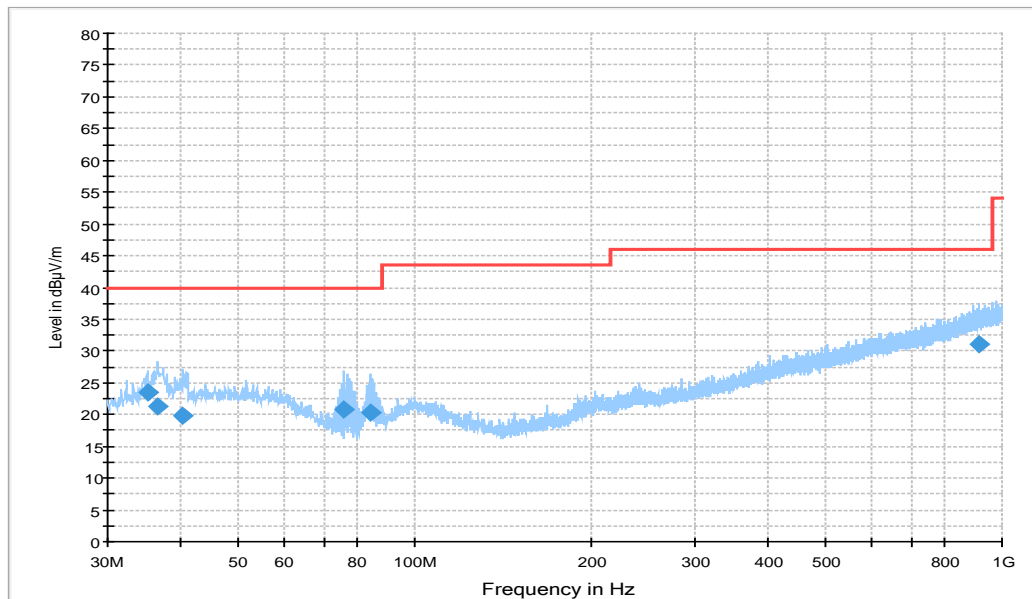


Figure A.1 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
35.141000	23.4	100.0	V	239.0	-1.5	16.6	40.0
36.499000	21.3	100.0	V	305.0	-1.3	18.7	40.0
40.379000	19.8	100.0	V	28.0	-0.6	20.2	40.0
75.881000	20.9	111.0	V	289.0	-5.9	19.1	40.0
83.835000	20.2	125.0	V	225.0	-5.6	19.8	40.0
915.22200	31.1	100.0	H	256.0	11.8	14.9	46.0

15B RE - 1GHz-3GHz

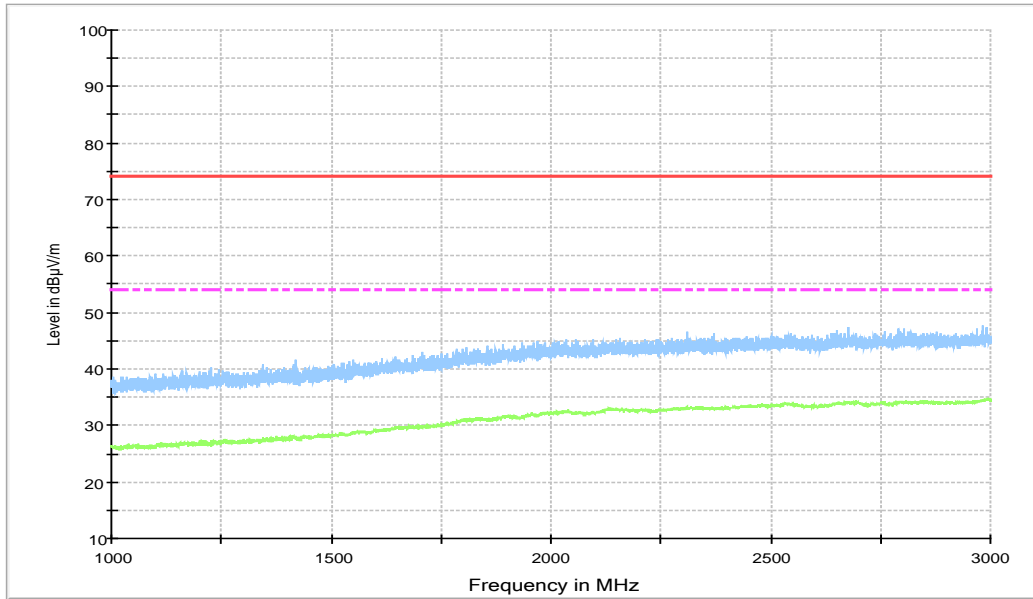


Figure A.2 Radiated Emission from 1GHz to 3GHz

15b RE - 3GHz-18GHz

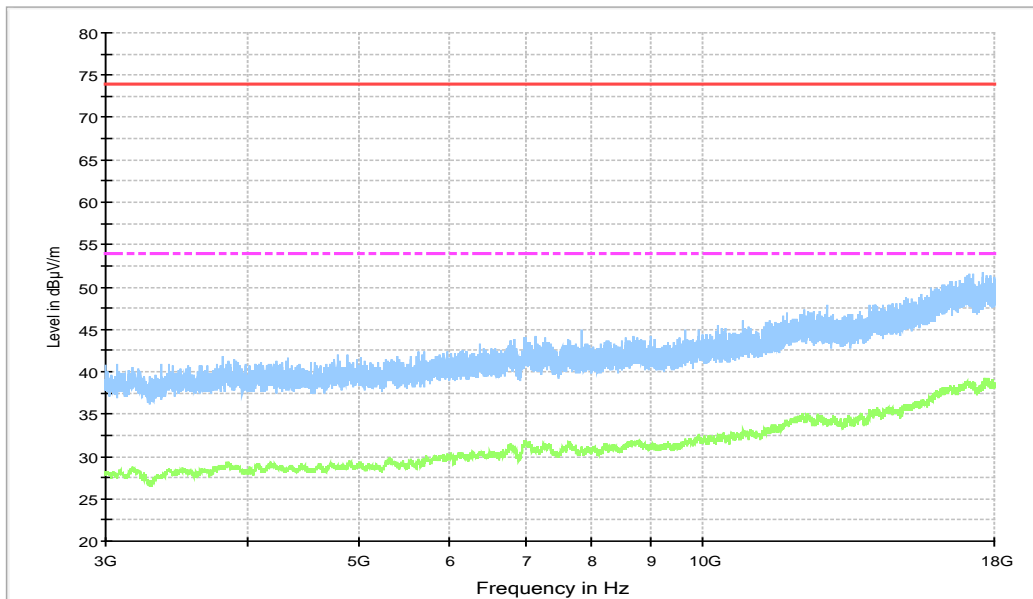


Figure A.3 Radiated Emission from 3GHz to 18GHz

Charger+ MP4+RX LTE B12, Set.1

15B RE 30MHz-1GHz

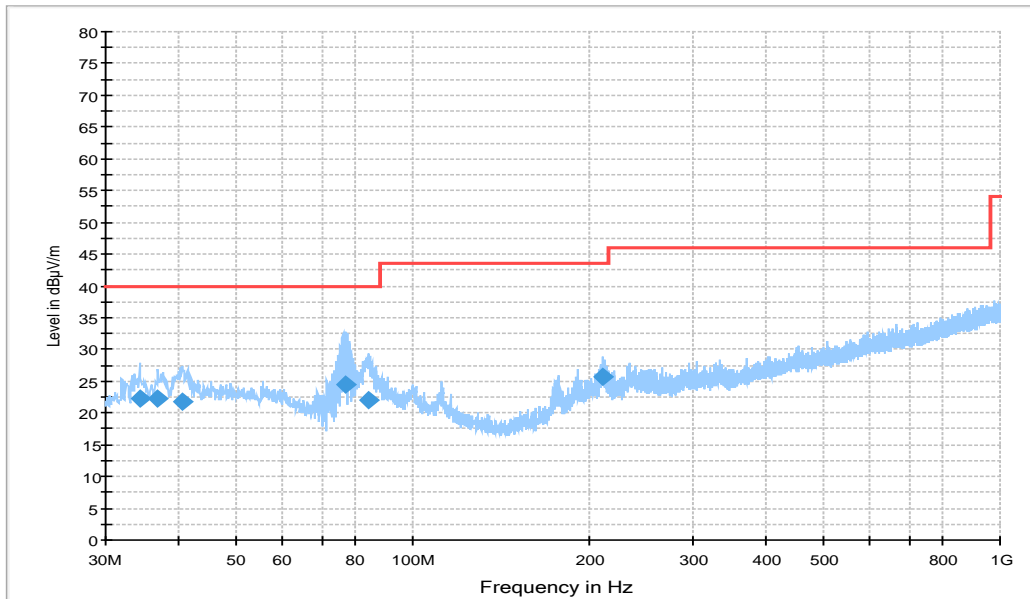


Figure A.4 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
34.268000	22.3	125.0	V	35.0	-1.7	17.7	40.0
36.887000	22.3	100.0	V	120.0	-1.2	17.7	40.0
40.573000	21.9	110.0	V	45.0	-0.6	18.1	40.0
76.754000	24.5	100.0	V	225.0	-6.1	15.5	40.0
84.223000	22.1	125.0	V	249.0	-5.5	17.9	40.0
210.61400	25.7	100.0	H	225.0	-1.5	17.8	43.5

15B RE - 1GHz-3GHz

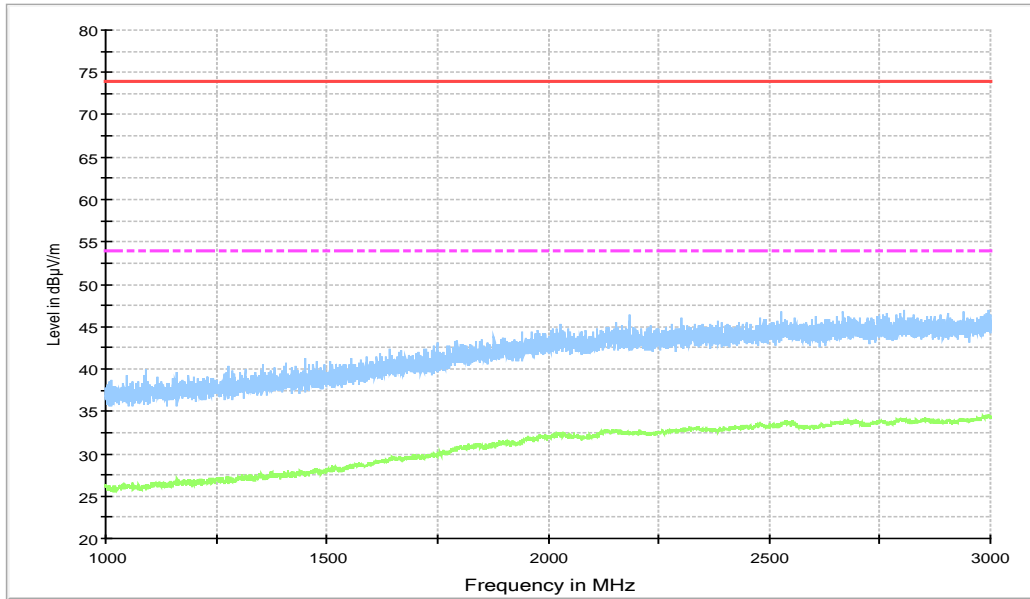


Figure A.5 Radiated Emission from 1GHz to 3GHz

15b RE - 3GHz-18GHz

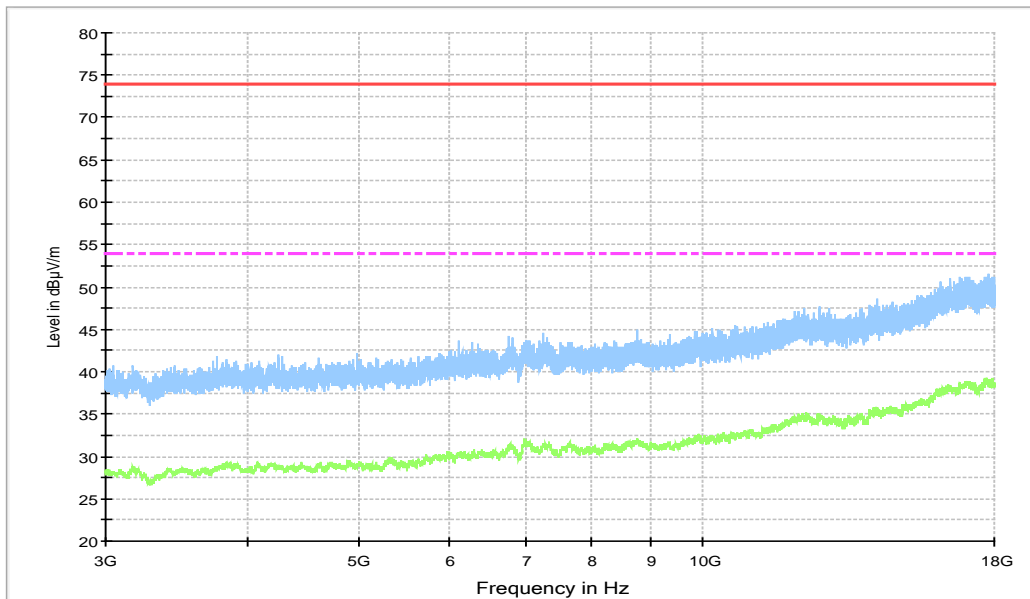


Figure A.6 Radiated Emission from 3GHz to 18GHz

USB (SD) mode+ RX LTE B26, Set.2

15B RE 30MHz-1GHz

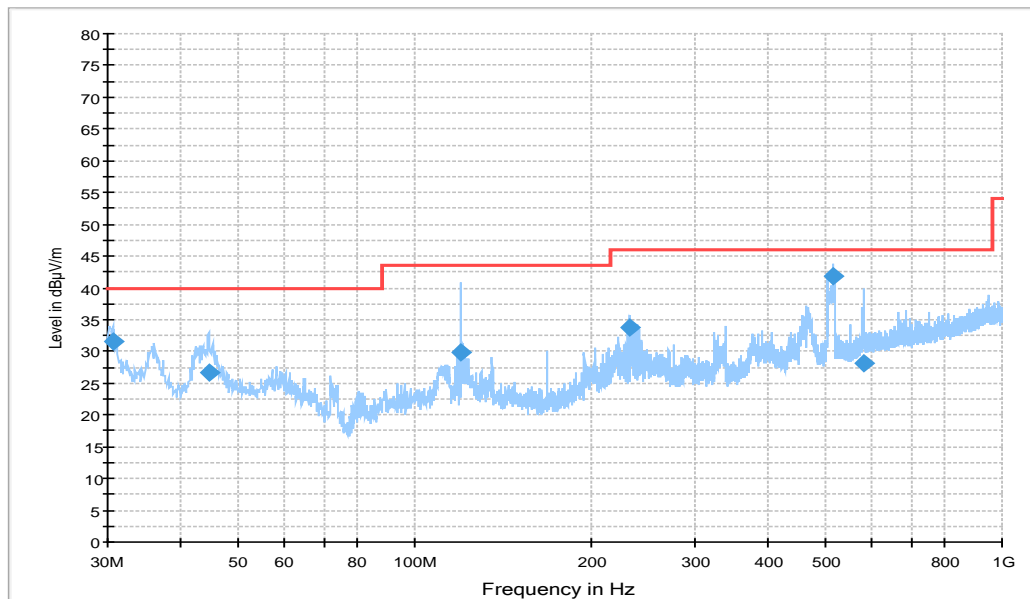
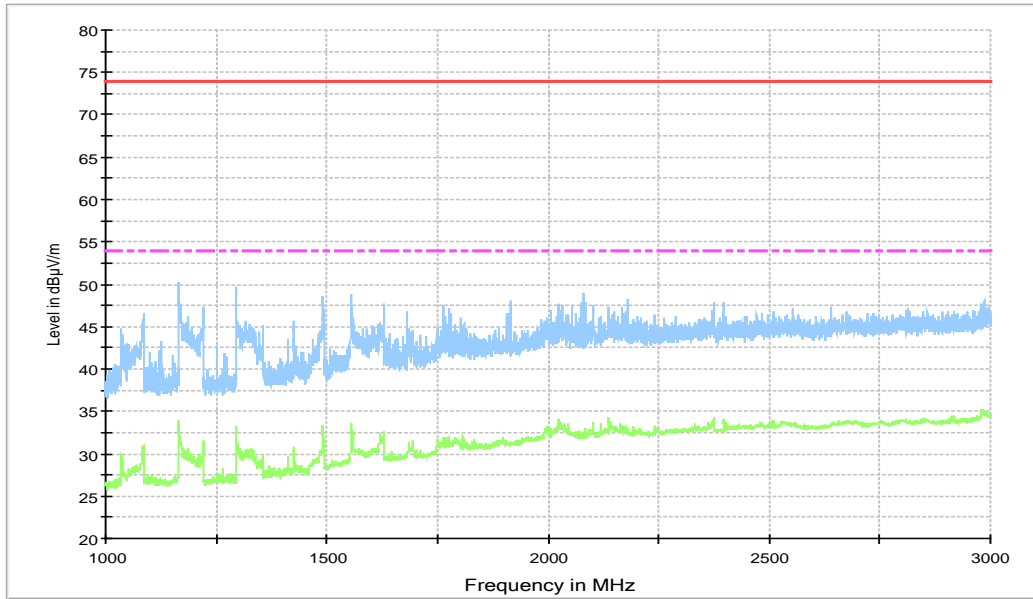


Figure A.7 Radiated Emission from 30MHz to 1GHz

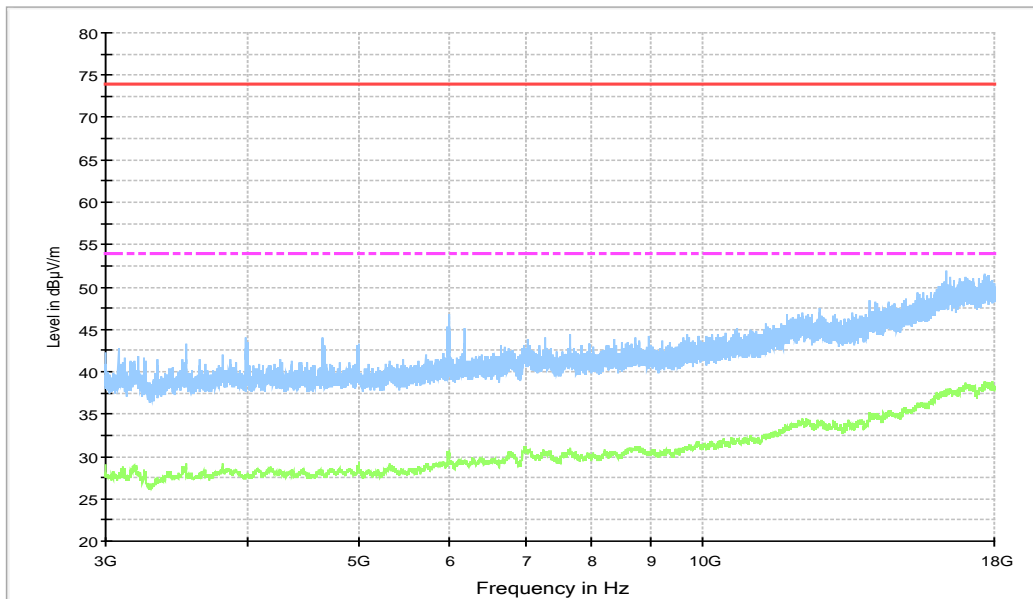
Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
30.582000	31.6	110.0	V	267.0	-2.4	8.4	40.0
44.550000	26.6	118.0	V	128.0	-0.5	13.4	40.0
119.91900	29.8	125.0	H	277.0	-3.8	13.7	43.5
231.95400	33.7	100.0	H	108.0	-0.5	12.3	46.0
517.42500	41.9	100.0	V	-17.0	6.3	4.1	46.0
581.54200	28.2	119.0	H	-4.0	7.6	17.8	46.0

15B RE - 1GHz-3GHz

**Figure A.8 Radiated Emission from 1GHz to 3GHz**

15b RE - 3GHz-18GHz

**Figure A.9 Radiated Emission from 3GHz 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, charging mode, MP4, CAMERA and SD mode.

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: $U= 3.10$ dB, $k=2$.

Charger+ Camera, Set.1

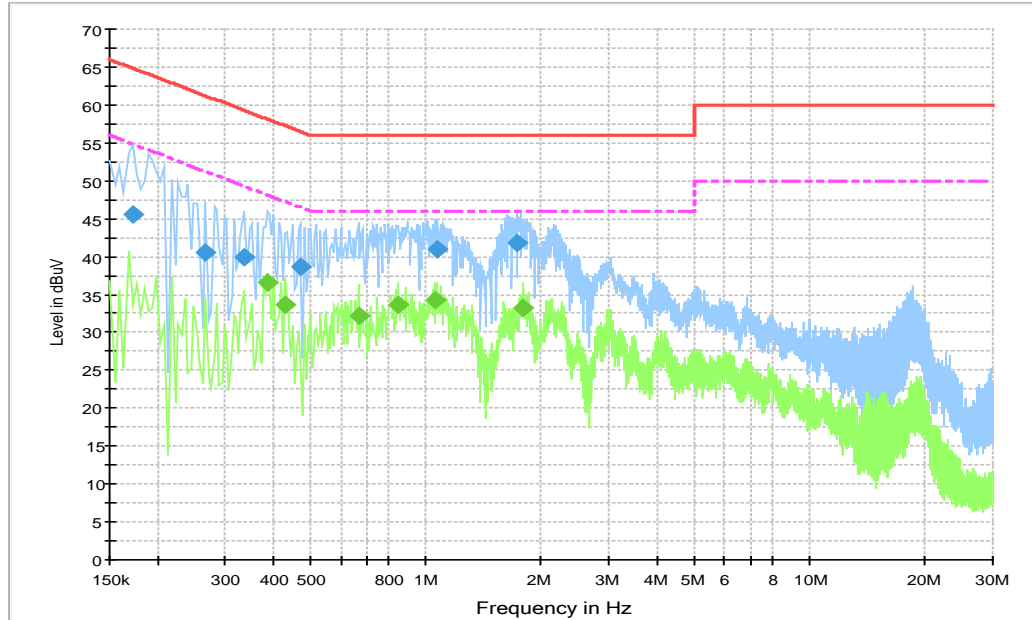


Figure A.10 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.172500	45.6	1000.0	9.000	On	L1	20.1	19.2	64.8
0.267000	40.5	1000.0	9.000	On	L1	19.9	20.7	61.2
0.334500	40.0	1000.0	9.000	On	L1	19.9	19.4	59.3
0.469500	38.6	1000.0	9.000	On	L1	20.0	17.9	56.5
1.072500	40.9	1000.0	9.000	On	L1	19.8	15.1	56.0
1.729500	41.7	1000.0	9.000	On	N	19.8	14.3	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.388500	36.6	1000.0	9.000	On	L1	20.0	11.5	48.1
0.429000	33.6	1000.0	9.000	On	L1	20.0	13.6	47.3
0.667500	32.1	1000.0	9.000	On	L1	19.9	13.9	46.0
0.843000	33.6	1000.0	9.000	On	L1	19.9	12.4	46.0
1.059000	34.3	1000.0	9.000	On	L1	19.8	11.7	46.0
1.797000	33.1	1000.0	9.000	On	L1	19.8	12.9	46.0

. Charger+ MP4, Set.2

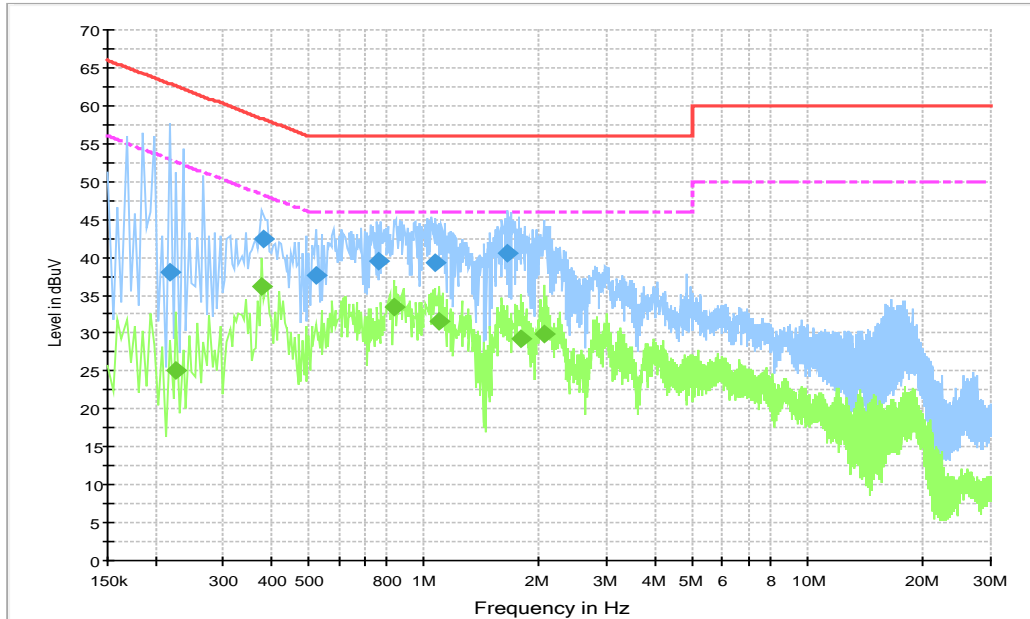


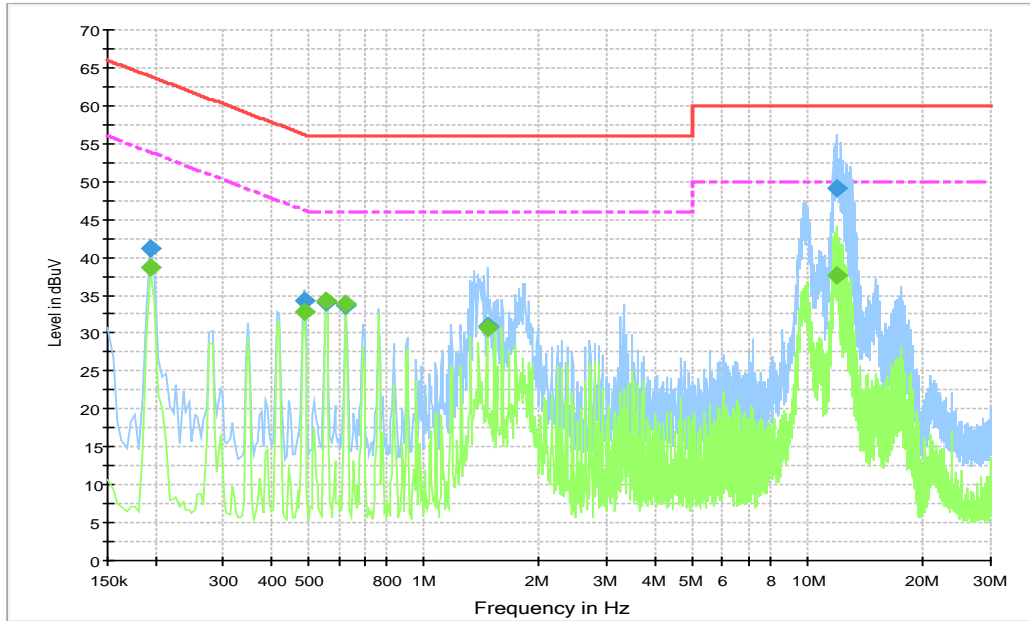
Figure A.11 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.217500	38.0	1000.0	9.000	On	N	19.9	24.9	62.9
0.384000	42.4	1000.0	9.000	On	L1	20.0	15.8	58.2
0.523500	37.6	1000.0	9.000	On	L1	20.0	18.4	56.0
0.766500	39.4	1000.0	9.000	On	L1	19.9	16.6	56.0
1.072500	39.3	1000.0	9.000	On	L1	19.8	16.7	56.0
1.657500	40.6	1000.0	9.000	On	N	19.8	15.4	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.226500	25.0	1000.0	9.000	On	L1	19.9	27.6	52.6
0.379500	36.1	1000.0	9.000	On	L1	20.0	12.2	48.3
0.834000	33.4	1000.0	9.000	On	L1	19.9	12.6	46.0
1.099500	31.6	1000.0	9.000	On	L1	19.8	14.4	46.0
1.788000	29.2	1000.0	9.000	On	L1	19.8	16.8	46.0
2.058000	30.0	1000.0	9.000	On	L1	19.8	16.0	46.0

USB (SD) mode, Set.2

Figure A.12 Conducted Emission
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.195000	41.1	1000.0	9.000	On	L1	20.0	22.7	63.8
0.487500	34.3	1000.0	9.000	On	N	20.0	22.0	56.2
0.555000	34.0	1000.0	9.000	On	N	20.0	22.0	56.0
0.627000	33.7	1000.0	9.000	On	N	19.9	22.3	56.0
1.464000	31.0	1000.0	9.000	On	N	19.8	25.0	56.0
11.944500	49.2	1000.0	9.000	On	L1	19.9	10.8	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.195000	38.7	1000.0	9.000	On	L1	20.0	15.1	53.8
0.487500	32.7	1000.0	9.000	On	N	20.0	13.5	46.2
0.555000	34.3	1000.0	9.000	On	N	20.0	11.7	46.0
0.627000	33.8	1000.0	9.000	On	N	19.9	12.2	46.0
1.459500	30.8	1000.0	9.000	On	L1	19.8	15.2	46.0
11.895000	37.7	1000.0	9.000	On	N	19.9	12.3	50.0



ANNEX B: Persons involved in this testing

Test Item	Tester
Radiated Emission	Zhao Wenhui, Li Zongliang
Conducted Emission	Guo Qian

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