TEST REPORT

No.I20N02478-EMC

for

TCL Communication Ltd.

GSM/UMTS/LTE Mobile phone

Model Name：5007S

With

Hardware Version: 03

Software Version: v2D23UZ31

FCC ID: 2ACCJH130

Issued Date: 2020-10-16

Designation Number: CN1210

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 SAICT.

Test Laboratory:

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I20N02478-EMC	Rev.0	1st edition	2020-10-16

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

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1. Summary of Test Report

1.1. Test Items

Description	GSM/UMTS/LTE Mobile phone
Model Name	5007S
Applicant's name	TCL Communication Ltd.
Manufacturer's Name	TCL Communication Ltd.

1.2. Test Standards

FCC Part 15, Subpart B 10-1-2019 Edition; ANSI C63.4 2014

1.3. Test Result

Pass

Total test 2 items, pass 2 items. Please refer to "6.2 Summary of Measurement Results"

1.4. Testing Location

Address: Building G, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian District, Shenzhen, Guangdong, P. R. China

1.5. Project data

Testing Start Date: 2020-09-16 Testing End Date: 2020-09-24

1.6. Signature

Liang Yong
(Prepared this test report)

Zhang Yunzhuan
(Reviewed this test report)

Cao Junfei
(Approved this test report)

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2. ClientInformation

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:	Hong Kong
Postal Code:	/
Country:	China
Telephone:	0086-755-36611722

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:	Hong Kong
Postal Code:	/
Country:	China
Telephone:	0086-755-36611722

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3. Equipment UnderTest (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	GSM/UMTS/LTE Mobile phone
Model Name	5007S
FCC ID	2ACCJH130
Antenna Type	Internal Antenna
Condition of EUT as received	No obvious damage in appearance

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of Shenzhen Academy of Information and Communications Technology.

3.2. Internal Identification of EUT

EUT ID*	SN or IMEI	HW Version	SW Version
UT01aa	015794000205394	03	v2D23UZ31

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE

AE ID*	Description
AE1	Battery
AE2	charger
AE3	USB cable
AE4	Herdset

AE1

Model	TLp034G1
Manufacturer	BYD
Capacitance	3500 mAh
Nominal voltage	/

AE2

Model	UC13US
Manufacturer	PUAN
Length of cable	/

AE3

Model	CDA0000134C2
Manufacturer	SHENGHUA
Length of cable	/

AE4

Model	Herdset
Manufacturer	/
Length of cable	/

*AE ID is used to identify the test sample in the lab internally.

AE: ancillary equipment

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3.4. EUT set-ups

EUT set-up No.	COMBINATION OF EUT AND AE
Set.1	UT01aa+ AE1 + AE2+ AE3
Set.2	UT01aa + AE1 + AE2 + AE3
Set.3	UT01aa + AE1 + AE2 + AE3+AE4

Note：

The device contains receivers which tune and operate between 30MHz-960MHz in the following bands: GSM850, WCDMA850, LTE B5, LTE B12, and LTE B13.

The EUT was tested while operating in licensed band RX mode. All licensed band receivers are investigated. Only the worst case emissions are reported.

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3.5. General Description

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

It consists of normal options: Battery, Charger,USB Cable.

Manual and specifications of the EUT were provided to fulfill the test.

Samples (EUT+AE) undergoing test were selected by the Client. Relevant information is provided by the Client.

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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	10-1-2019 Edition
ANSI C63.4	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. LABORATORY ENVIRONMENT

Semi-anechoic chamber did not exceed following limits along the EMC testing:
9.10m×6.10m×5.60m (L×W×H)

Temperature	Min. = 15 ℃, Max. = 35℃
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz,>60dB; 1MHz-18000MHz,>90dB
Electrical insulation	>2MΩ
Ground system resistance	<4Ω
Normalised site attenuation (NSA)	<±4 dB, 3 m distance, from 30 to 1000 MHz

Shield room did not exceed following limits along the EMC testing:

Temperature	Min. = 15 ℃, Max. = 35 ℃
Relative humidity	Min. =20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz,>60dB; 1MHz-10000MHz,>90dB
Electrical insulation	>2MΩ
Ground system resistance	<4Ω

Fully-anechoic chamber did not exceed following limits along the EMC testing:
9.10m×6.10m×5.60m (L×W×H)

Temperature	Min. = 15 ℃, Max. = 35℃
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz,>60dB; 1MHz-18000MHz,>90dB
Electrical insulation	>2MΩ
Ground system resistance	<4Ω
Voltage Standing Wave Ratio（VSWR）	≤ 6 dB, from 1 to 18GHz，3 m distance
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

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6. SUMMARY OF TEST RESULTS

6.1. Testing Environment

Normal Temperature: 15~35℃
Relative Humidity: 20~75%
Atmospheric pressure 86~106kPa

6.2. Summary of Measurement Results

Abbreviations used in this clause:	
P	Pass
NA	Not applicable
F	Fail

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

6.3. Statement

6.3.1 Statements of conformity

This report takes measured values as criterion of test conclusion. The test conclusion meets the limit requirements.

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7. Measurement uncertainty

Test item	Frequency ranges	Measurement uncertaint
Radiated Emission	30MHz-1GHz	4.90dB(k=2)
	1GHz-18GHz	4.60dB(k=2)
Conducted Emission	150kHz-30MHz	3.00dB(k=2)

8. Test Facilities Utilized

NO.	NAME	TYPE	SERIES NUMBER	PRODUCER	CALDUE DATE	CAL PERIOD
1.	Test Receiver	ESR7	101676	R&S	2020.11.27	1 year
2.	Test Receiver	ESCI	100701	R&S	2021.08.09	1 year
3.	Spectrum Analyzer	FSV40	101192	R&S	2021.01.14	1 year
4.	BiLog Antenna	3142E	00224831	ETS-Lindgren	2021.05.17	3 years
5.	LISN	ENV216	102067	R&S	2021.07.16	1 year
6.	Horn Antenna	3117	00066577	ETS-Lindgren	2022.04.02	3 years
7.	Universal Radio Communication Tester	CMW500	152499	R&S	2021.07.16	1 year
8.	Signal Generator	SMB100A	179725	R&S	2020.11.27	1 year
9.	Chamber	FACT3-2.0	1285	ETS-Lindgren	2021.07.19	2 years
10.	Software	EMC32	V10.01.00	R&S	/	/

9. Test Accessory Utilized

NO.	NAME	TYPE	SERIES NUMBER	PRODUCER	CALDUE DATE	CAL PERIOD
1.	PC	ThinkPad T480	PF-13LW0C	Lenovo	/	/
2.	Printer	P1008	VNF6C12491	HP	/	/
3.	Mouse	MOEUUOA	44NY517	Lenovo	/	/

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ANNEX A: MEASUREMENT RESULTS

A.1 Radiated Emission (§15.109(a))

Reference

FCC: CFR Part 15.109(a)

A.1.1 Method of measurement

The field strength of radiated emissions from the unintentional radiator (Data transfer mode of EUT and charging mode of EUT) at a distance 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 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.

For License RX band mode, GSM850, WCDMA BAND 5 and LTE BAND 14 are reported.

The model of the PC is Lenovo ThinkPad T480, and the serial number of the PC is PF-13LW0C.

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

Limit from CFR Part 15.109(a)

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 original limit is defined at 10m test distance. This limit is calculated according to CISPR requirements.

A.1.4 Test Condition

Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	120kHz (IF bandwidth)	5
Above 1000	1MHz/3MHz	15

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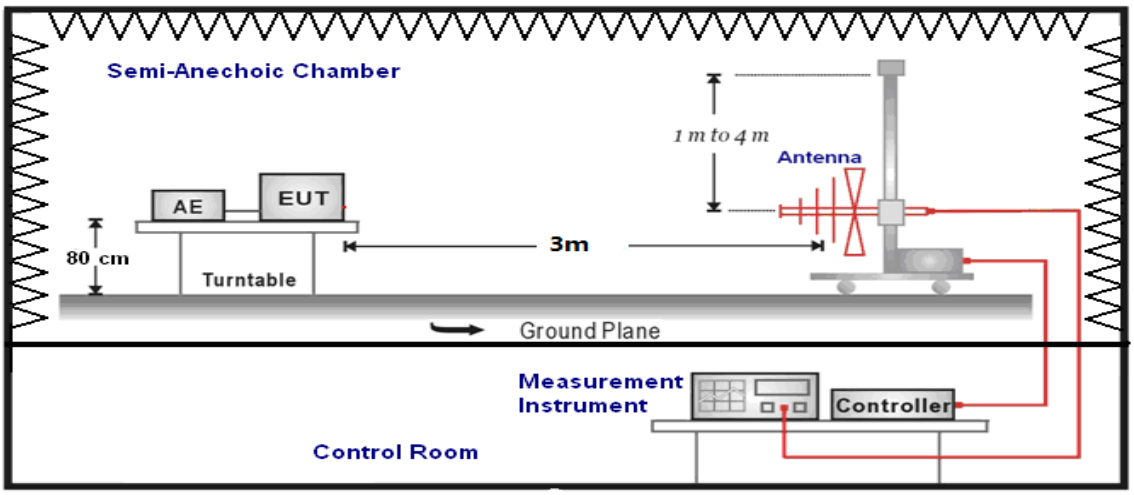
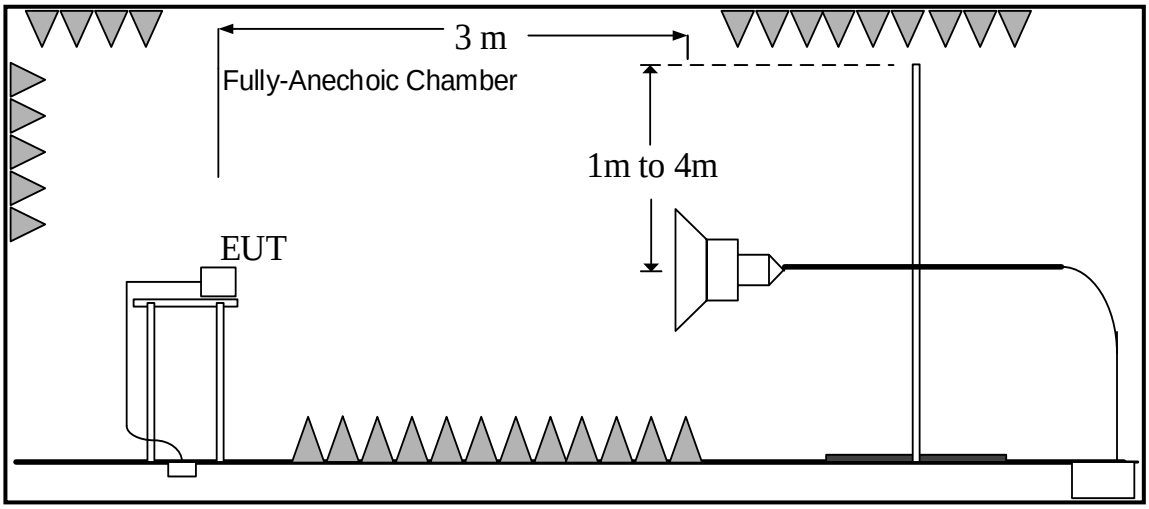
A.1.5 Test set-up:

30MHz-1GHz



1GHz-18GHz



A.1.6 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.

Note: the result contains vertical part and Horizontal part

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Measurement results for Set.1:

Charger+MP4+GNSS+GSM850 idle /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)
17997.733	48.8	-17.7	45.6	20.900	54.000	5.200	H
17988.100	48.4	-17.7	45.6	20.500	54.000	5.600	H
17968.833	48.3	-17.7	45.6	20.400	54.000	5.700	V
17847.567	48.2	-18.5	45.6	21.100	54.000	5.800	H
17967.133	48.2	-17.7	45.6	20.300	54.000	5.800	H
17935.967	48.1	-17.7	45.6	20.200	54.000	5.900	H

Charger+MP4+GNSS+GSM850 idle /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)
17997.167	57.7	-17.7	45.6	29.800	74.000	16.300	H
17984.700	57.3	-17.7	45.6	29.400	74.000	16.700	H
17970.533	57.1	-17.7	45.6	29.200	74.000	16.900	V
17997.733	57.1	-17.7	45.6	29.200	74.000	16.900	H
17972.800	56.7	-17.7	45.6	28.800	74.000	17.300	H
17986.400	56.6	-17.7	45.6	28.700	74.000	17.400	H

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Measurement results for Set.2:

Charger+Camera+WCDMA 850 idle /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)
17983.000	49.2	-17.7	45.6	21.300	54.000	4.800	H
17979.600	48.9	-17.7	45.6	21.000	54.000	5.100	H
17977.900	48.8	-17.7	45.6	20.900	54.000	5.200	V
17987.533	48.8	-17.7	45.6	20.900	54.000	5.200	H
17981.867	48.3	-17.7	45.6	20.400	54.000	5.700	H
17980.733	48.3	-17.7	45.6	20.400	54.000	5.700	H

Charger+Camera+WCDMA 850/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)
17977.333	57.5	-17.7	45.6	29.600	74.000	16.500	H
17904.233	57.0	-18.5	45.6	29.900	74.000	17.000	H
17949.567	56.7	-17.7	45.6	28.800	74.000	17.300	V
17939.933	56.6	-17.7	45.6	28.700	74.000	17.400	H
17994.900	56.5	-17.7	45.6	28.600	74.000	17.500	H
17881.567	56.4	-18.5	45.6	29.300	74.000	17.600	H

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Measurement results for Set.3:

USB mode +FM+ LTE FDD Band 12 idle /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)
17997.733	48.8	-17.7	45.6	20.900	54.000	5.200	H
17975.633	48.6	-17.7	45.6	20.700	54.000	5.400	H
17994.900	48.2	-17.7	45.6	20.300	54.000	5.800	V
17954.100	48.0	-17.7	45.6	20.100	54.000	6.000	H
17981.300	47.9	-17.7	45.6	20.000	54.000	6.100	H
17990.933	47.9	-17.7	45.6	20.000	54.000	6.100	H

USB mode +FM+ LTE FDD Band 12 idle/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)
17959.767	57.9	-17.7	45.6	30.000	74.000	16.100	H
17975.633	57.4	-17.7	45.6	29.500	74.000	16.600	H
17916.133	57.3	-17.7	45.6	29.400	74.000	16.700	V
17997.733	57.3	-17.7	45.6	29.400	74.000	16.700	H
17921.233	57.2	-17.7	45.6	29.300	74.000	16.800	H
17997.167	56.9	-17.7	45.6	29.000	74.000	17.100	H

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Charger+MP4+GNSS+GSM850 idle, Set.1

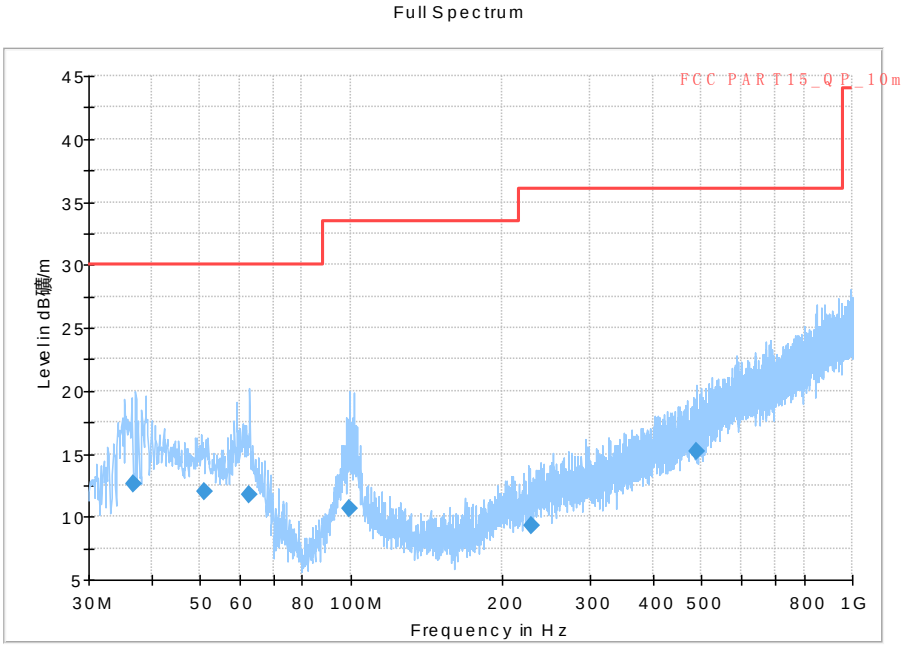

Figure A.1 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
36.818000	12.56	30.00	17.44	1000.0	120.000	101.0	V	300.0
50.970000	12.03	30.00	17.97	1000.0	120.000	225.0	V	283.0
62.883000	11.71	30.00	18.29	1000.0	120.000	225.0	V	-25.0
99.549000	10.70	33.50	22.82	1000.0	120.000	185.0	V	-8.0
228.323000	9.24	36.00	26.78	1000.0	120.000	178.0	V	120.0
490.029000	15.17	36.00	20.85	1000.0	120.000	210.0	V	120.0

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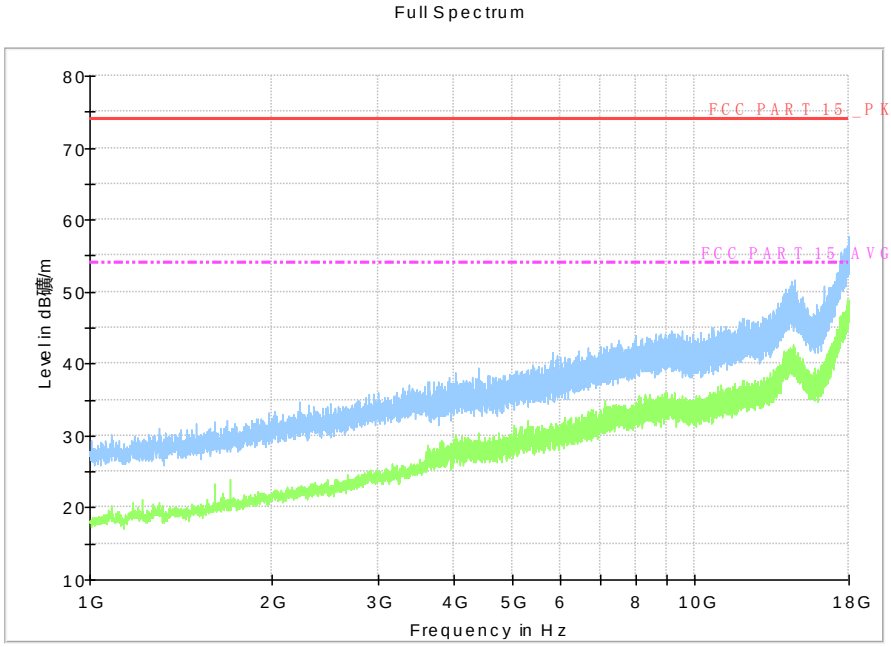

Figure A.2 Radiated Emission from 1GHz to 18GHz

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Charger+Camera+WCDMA 850 idle, Set.2

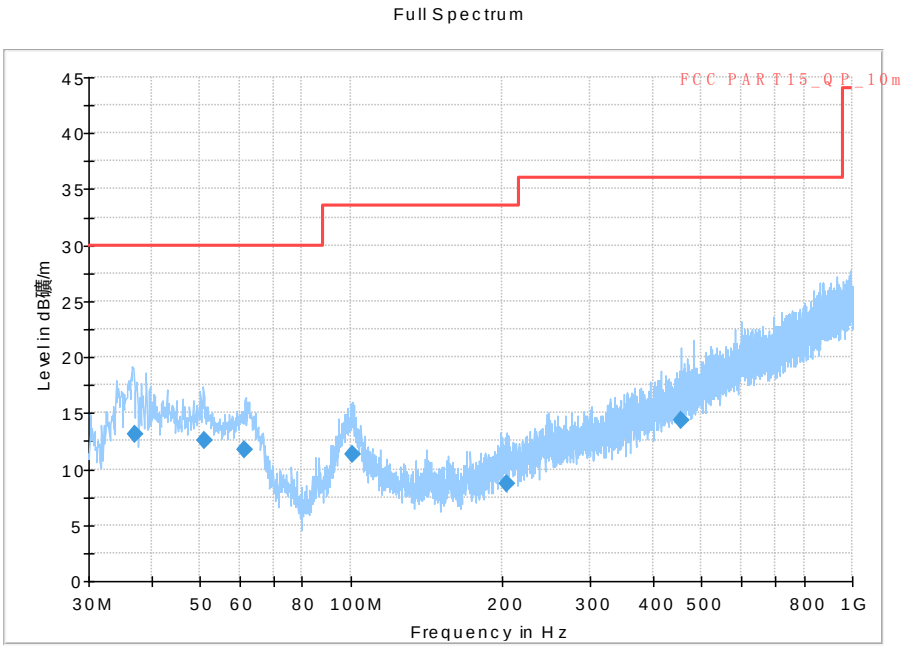

Figure A.4 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
37.187000	13.11	30.00	16.89	1000.0	120.000	298.0	V	275.0
50.998000	12.63	30.00	17.37	1000.0	120.000	109.0	V	-30.0
61.262000	11.74	30.00	18.26	1000.0	120.000	208.0	V	190.0
100.768000	11.38	33.50	22.14	1000.0	120.000	102.0	V	25.0
205.117000	8.67	33.50	24.85	1000.0	120.000	125.0	V	243.0
456.338000	14.31	36.00	21.71	1000.0	120.000	191.0	V	113.0

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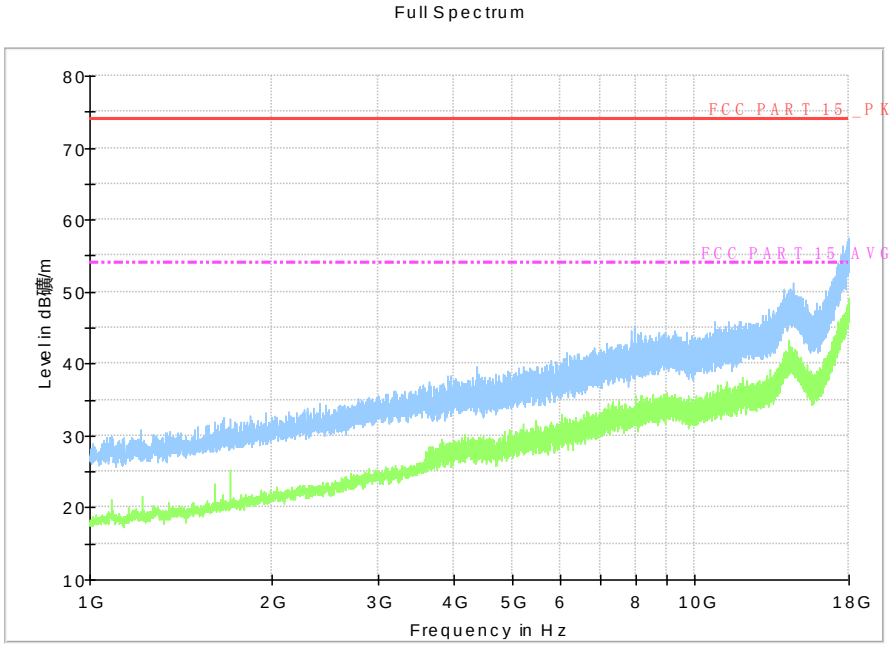

Figure A.5 Radiated Emission from 1GHz to 18GHz

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USB mode +FM+ LTE FDD Band 12 idle, Set.3

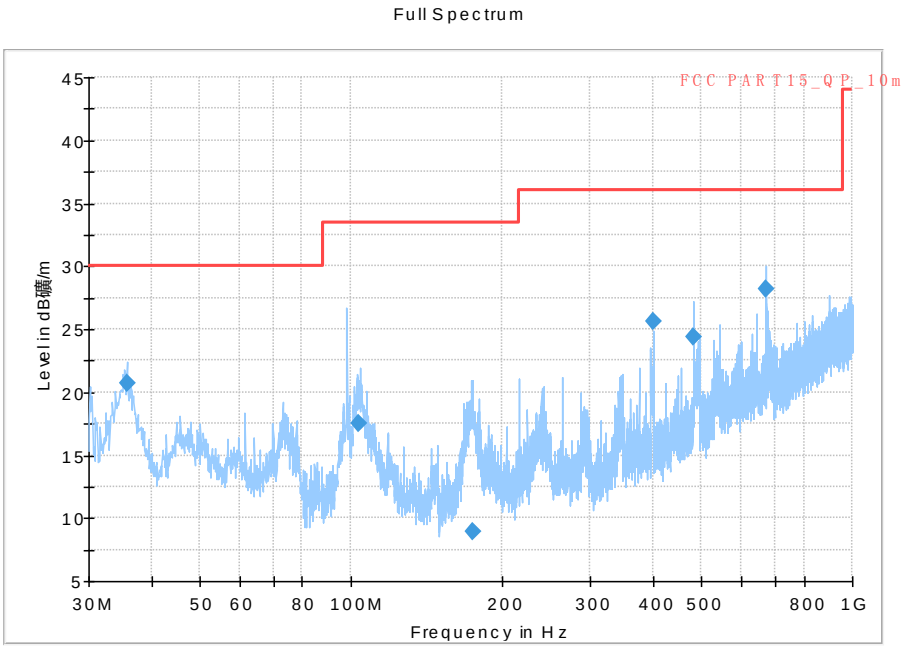

Figure A.7 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
35.783000	20.76	30.00	9.24	1000.0	120.000	292.0	V	163.0
103.905000	17.54	33.50	15.98	1000.0	120.000	207.0	V	103.0
175.024000	8.88	33.50	24.64	1000.0	120.000	125.0	V	60.0
400.018000	25.65	36.00	10.37	1000.0	120.000	96.0	V	241.0
480.916000	24.34	36.00	11.68	1000.0	120.000	225.0	V	296.0
673.110000	28.15	36.00	7.87	1000.0	120.000	185.0	V	292.0

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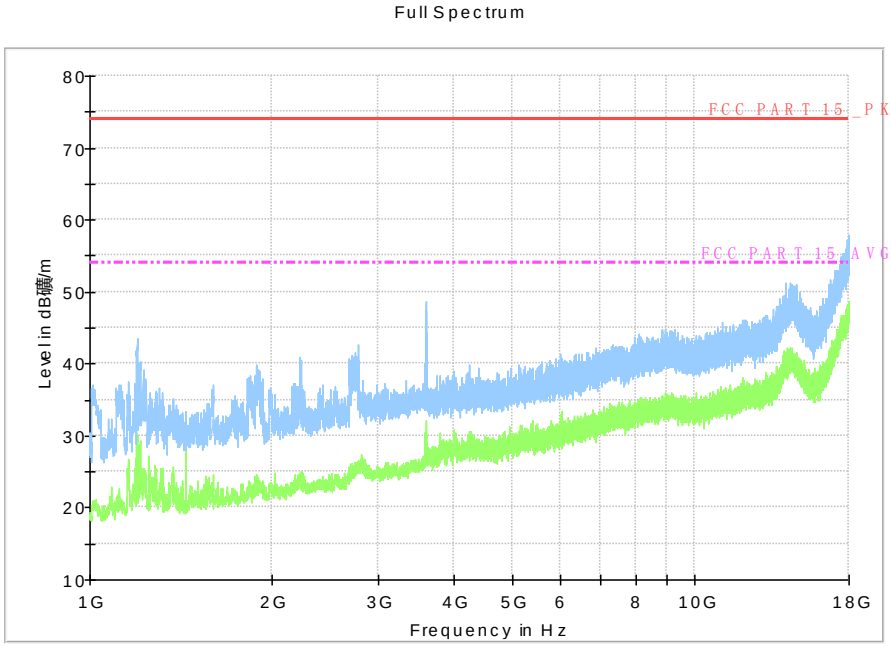

Figure A.8 Radiated Emission from 1GHz to 18GHz

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A.2 Conducted Emission (§15.107(a))

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 :

The MS is operating in the USB mode, charging mode, MP4, CAMERA mode.

The model of the PC is Lenovo ThinkPad T480, and the serial number of the PC is PF-13LW0C.

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		

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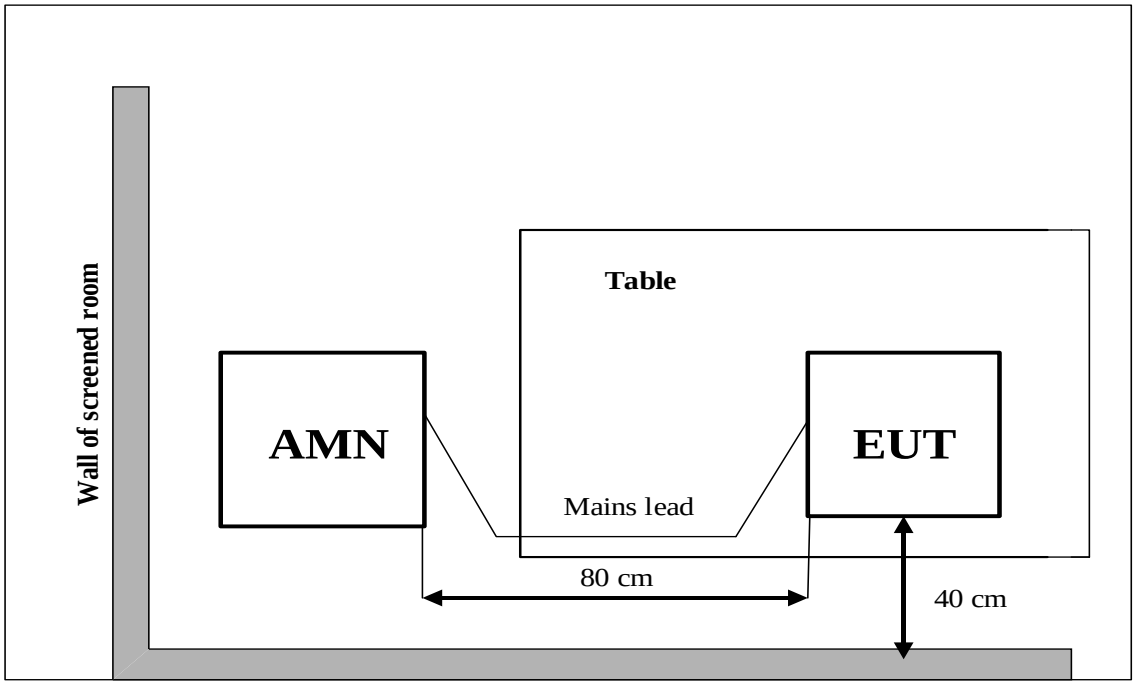
A.2.4Test set-up:



A.2.5 Test Condition in charging mode

Voltage（V）	Frequency（Hz）
120	60
240	60

RBW	Sweep Time(s)
9kHz	1

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A.2.6 Measurement Results

AC Input Port/ Voltage: 120V/60Hz

Charger+MP4+GNSS+GSM850 idle, Set.1

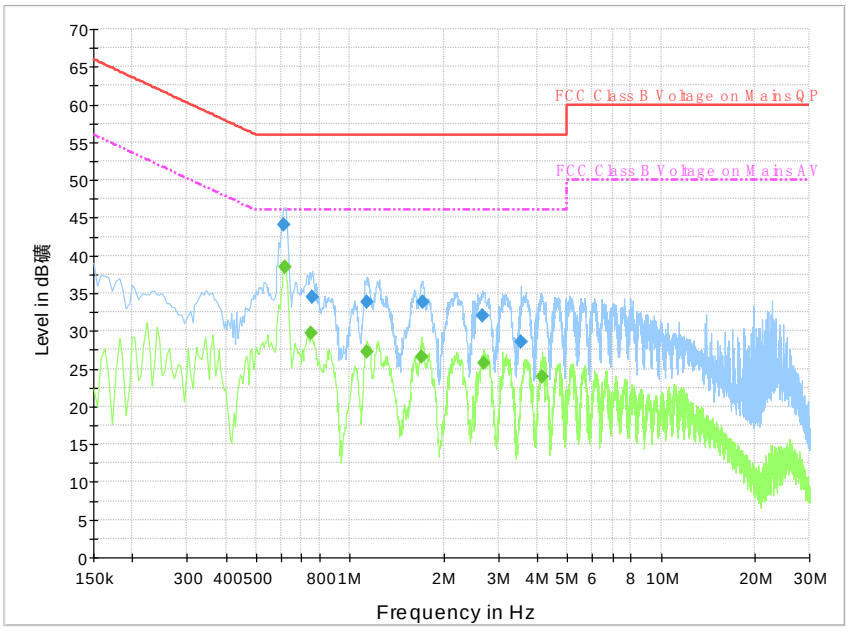

Figure A.40 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.613500	44.0	GND	N	10.0	12.0	56.0
0.757500	34.5	GND	L1	10.0	21.5	56.0
1.135500	33.9	GND	N	10.0	22.1	56.0
1.711500	33.9	GND	N	10.1	22.1	56.0
2.679000	32.0	GND	L1	10.1	24.0	56.0
3.552000	28.6	GND	L1	10.1	27.4	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.618000	38.4	GND	N	10.0	7.6	46.0
0.748500	29.7	GND	N	10.0	16.3	46.0
1.131000	27.3	GND	N	10.0	18.7	46.0
1.693500	26.5	GND	N	10.1	19.5	46.0
2.692500	25.7	GND	N	10.1	20.3	46.0
4.150500	23.9	GND	N	10.2	22.1	46.0

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Charger+Camera+WCDMA 850 idle, Set.2

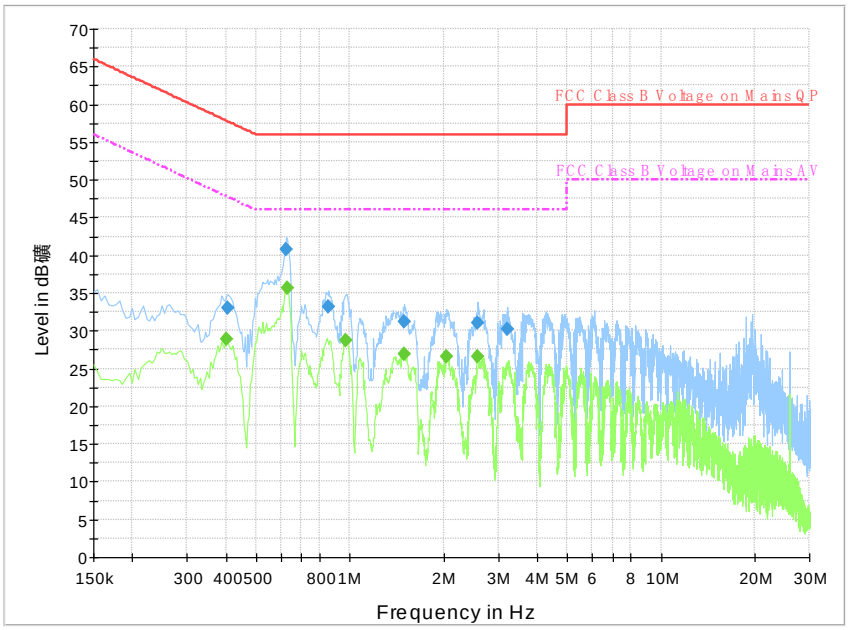

Figure A.41 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.406500	32.9	GND	N	10.0	24.8	57.7
0.627000	40.7	GND	N	10.0	15.3	56.0
0.856500	33.2	GND	N	10.0	22.8	56.0
1.495500	31.2	GND	N	10.0	24.8	56.0
2.584500	31.0	GND	N	10.1	25.0	56.0
3.196500	30.3	GND	N	10.1	25.7	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.402000	28.9	GND	N	10.0	18.9	47.8
0.631500	35.7	GND	N	10.0	10.3	46.0
0.973500	28.7	GND	N	10.0	17.3	46.0
1.500000	26.9	GND	N	10.0	19.1	46.0
2.053500	26.5	GND	N	10.1	19.5	46.0
2.584500	26.5	GND	N	10.1	19.5	46.0

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USB mode +FM+ LTE FDD Band 12 idle, Set.3

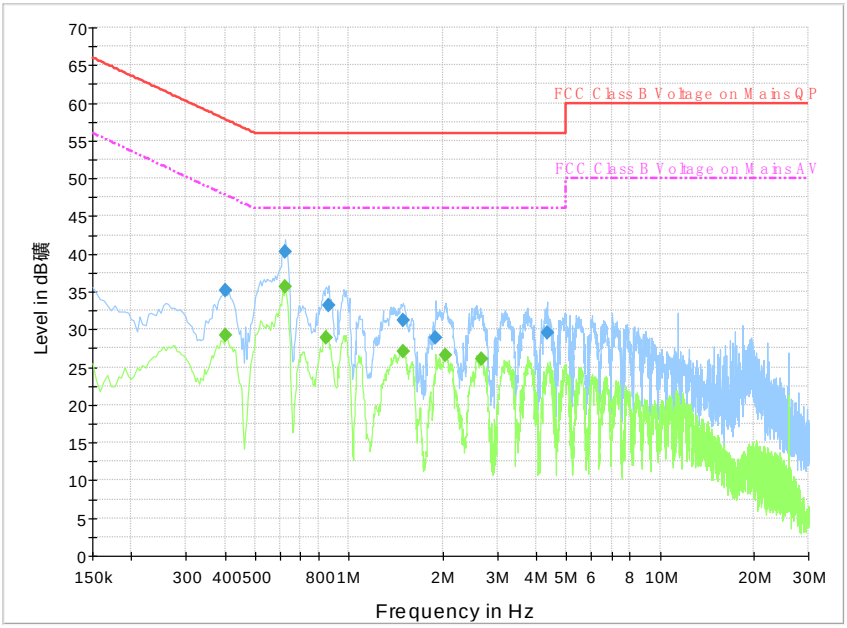

Figure A.42 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.402000	35.2	GND	N	10.0	22.6	57.8
0.627000	40.3	GND	N	10.0	15.7	56.0
0.861000	33.2	GND	N	10.0	22.8	56.0
1.491000	31.3	GND	N	10.0	24.7	56.0
1.905000	28.9	GND	L1	10.0	27.1	56.0
4.330500	29.5	GND	N	10.2	26.5	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.402000	29.2	GND	N	10.0	18.6	47.8
0.622500	35.6	GND	N	10.0	10.4	46.0
0.843000	28.9	GND	N	10.0	17.1	46.0
1.500000	27.1	GND	N	10.0	18.9	46.0
2.035500	26.6	GND	N	10.1	19.4	46.0
2.661000	26.1	GND	N	10.1	19.9	46.0

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

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