



TEST REPORT

No. I17Z60331-EMC01

for

TCL Communication Ltd.

LTE / UMTS / GSM mobile phone

Model Name: 5085G

FCC ID: 2ACCJH073

with

Hardware Version: 10

Software Version: v7J5H

Issued Date: 2017-05-15

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:

FCC 2.948 Listed: No.525429

CTTL, Telecommunication Technology Labs, Academy of Telecommunication Research, MIIT

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I17Z60331-EMC01	Rev.0	1 st edition	2017-05-15

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1. Test Laboratory

1.1. Testing Location

Location : CTTL(Yizhuang)

Address: No. A18, Kangding Road, Yizhuang, Beijing,
P. R. China 100176

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℃

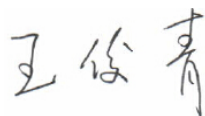
Relative Humidity: 20-75%

1.3. Project data

Testing Start Date: 2017-04-19

Testing End Date: 2017-05-12

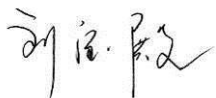
1.4. Signature



Wang Junqing
(Prepared this test report)



Zhang Ying
(Reviewed this test report)



Liu Baodian
Deputy Director of the laboratory
(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name: TCL Communication Ltd.
Address /Post: 5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park,
Pudong Area Shanghai, P.R. China. 201203
City: Shanghai
Postal Code: 201203
Country: P. R. China
Contact Person: Gong Zhizhou
Contact Email: zhizhou.gong@tcl.com
Telephone: 0086-21-31363544
Fax: 0086-21-61460602

2.2. Manufacturer Information

Company Name: TCL Communication Ltd.
Address /Post: 5F, C building, No. 232, Liang Jing Road ZhangJiang High-Tech Park,
Pudong Area Shanghai, P.R. China. 201203
City: Shanghai
Postal Code: 201203
Country: P. R. China
Contact Person: Gong Zhizhou
Contact Email: zhizhou.gong@tcl.com
Telephone: 0086-21-31363544
Fax: 0086-21-61460602

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

3.1. About EUT

Description	LTE / UMTS / GSM mobile phone
Model Name	5085G
FCC ID	2ACCJH073
Extreme vol. Limits	3.5VDC to 4.2VDC (nominal: 3.8VDC)

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of CTTL, Telecommunication Technology Labs, Academy of Telecommunication Research, MIIT.

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version
EUT1	357572080101022	10	v7J5H

*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	/	/
AE3	Charger	/	/
AE11	USB Cable	/	/
AE12	USB Cable	/	/
AE13	Back cover2	/	/
AE14	Back cover3	/	/
AE15	Back cover4	/	/
AE16	USB Cable	/	/

AE1

Model	TLp027AJ
SN	CAC2710010CJ
Manufacturer	COSLIGHT
Capacitance	2710 mAh
Nominal voltage	/

AE3

Model	CBA0058AGAD2
Manufacturer	TENPAO
Length of cable	/

AE11

Model	CDA0000078CF
Manufacturer	LUXSHARE
Length of cable	98cm

AE12

Model	CDA0000104CF
Manufacturer	LUXSHARE
Length of cable	98cm

AE13

Model SAA29Q00A10C/SAA29Q00C10C
Manufacturer TCL

AE14

Model SAA29R00A10C
Manufacturer TCL

AE15

Model SAA29P00A10C
Manufacturer TCL

AE16

Model CDA0000103CF
Manufacturer LUXSHARE
Length of cable /

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

Note: The USB cables are shielded.

3.4. EUT set-ups

EUT set-up No.	Combination of EUT and AE	Remarks
Set.17	EUT1+ AE1+ AE3+ AE11/AE12	Charger
Set.18	EUT1+ AE1+ AE11/AE12	USB
Set.19	EUT1+ AE1+ AE3+ AE11/AE12	Back Cover2(AE13)
Set.20	EUT1+ AE1+ AE3+ AE11/AE12	Back Cover3(AE14)
Set.21	EUT1+ AE1+ AE3+ AE11/AE12	Back Cover4(AE15)

Note: LTE / UMTS / GSM mobile phone 5085G manufactured by TCL Communication Ltd is a variant model based on 5085C for conformance test. According to the declaration of changes, the following items are tested on all Sets.

GSM1900MHz	All Sets	Radiated Continuous Emission
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Other results are inherited from the initial model. The report number of initial model is I17Z60308-EMC01

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	2015 Edition
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×17meters×10meters) 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, 10 m 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 3000 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
Location Column	YZ	The test is performed in test location YZ which is described in section 1.1 of this report

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

7. Test Equipments Utilized

NO.	Description	TYPE	SERIES NUMBER	MANUFACTURE	CAL DUE DATE	CALIBRATI ON INTERVAL
1	Test Receiver	ESU26	100376	R&S	2017-11-30	1 year
2	Test Receiver	ESCI 7	100948	R&S	2017-07-05	1 year
3	Universal Radio Communication Tester	CMW500	127406	R&S	2018-02-19	1 year
4	Universal Radio Communication Tester	CMW500	155415	R&S	2018-02-15	1 year
5	LISN	ESH2-Z5	829991/012	R&S	2018-04-10	1 year
6	EMI Antenna	VULB 9163	9163-514	Schwarzbeck	2017-11-24	3 years
7	EMI Antenna	3117	00139065	ETS-Lindgren	2017-09-21	3 years
8	PC	OPTIPLEX 380	2X1YV2X	DELL	N/A	N/A
9	Printer	P1606dn	VNC3L52122	HP	N/A	N/A
10	Keyboard	L100	CN0RH6596589 07ATOI40	DELL	N/A	N/A
11	Mouse	M-UAE119	LZ935220ZRC	Lenovo	N/A	N/A

Test Item	Test Software and Version	Software Vendor	Test operator
Radiated Continuous Emission	EMC32 V9.01	R&S	Chen Tianwei
Conducted Emission	EMC32 V8.52.0	R&S	Zhang Guowei

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 (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 3/10 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 charging mode. During the test MS is connected to a charger in the case of charging mode.

Note: I/O information: Printer – USB, Mouse – PS/2, Keyboard – USB.

A.1.3 Measurement Limit

Frequency range (MHz)	Field strength limit ($\mu\text{V/m}$)		
	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/1MHz	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: 4.86dB, 1GHz-18GHz: 5.26dB, $k=2$.

Measurement results for Set.17:

Charging Mode/Average detector

Frequency(MHz)	Result(dB μ V/m)	G_{PL} (dB)	G_A (dB/m)	P_{Mea} (dB μ V)	Polarity
17936.533	43.9	-17.7	45.6	16.000	H
17944.467	43.9	-17.7	45.6	16.000	V
17954.100	43.9	-17.7	45.6	16.000	H
17924.067	43.9	-17.7	45.6	16.000	V
17941.067	43.9	-17.7	45.6	16.000	H
17953.533	43.8	-17.7	45.6	15.900	H

Charging Mode/Peak detector

Frequency(MHz)	Result(dB μ V/m)	G_{PL} (dB)	G_A (dB/m)	P_{Mea} (dB μ V)	Polarity
17956.933	55.0	-17.7	45.6	27.100	H
17977.333	55.0	-17.7	45.6	27.100	V
17950.700	55.0	-17.7	45.6	27.100	V
17951.833	54.9	-17.7	45.6	27.000	H
17875.333	54.9	-18.5	45.6	27.800	V
17853.233	54.8	-18.5	45.6	27.700	H

Sample calculation: Peak detector, 17853.233MHz

$$\text{Result} = P_{\text{Mea}} (27.700\text{dB}\mu\text{V}) + G_A (45.6\text{dB/m}) + G_{\text{PL}}(-18.5 \text{ dB}) = 54.8\text{dB}\mu\text{V/m}$$

Measurement results for Set.19:
Charging Mode/Average detector

Frequency(MHz)	Result(dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dB μ V)	Polarity
17914.433	44.0	-17.7	45.6	16.100	V
17942.767	43.9	-17.7	45.6	16.000	H
17943.333	43.9	-17.7	45.6	16.000	H
17942.200	43.9	-17.7	45.6	16.000	V
17872.500	43.9	-18.5	45.6	16.800	V
17926.333	43.9	-17.7	45.6	16.000	H

Charging Mode/Peak detector

Frequency(MHz)	Result(dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dB μ V)	Polarity
17958.067	55.4	-17.7	45.6	27.500	H
17852.667	54.8	-18.5	45.6	27.700	H
17938.233	54.7	-17.7	45.6	26.800	V
17925.767	54.7	-17.7	45.6	26.800	V
17848.700	54.6	-18.5	45.6	27.500	H
17981.300	54.6	-17.7	45.6	26.700	V

Sample calculation: Peak detector, 17848.700MHz

Result =P_{Mea} (27.500dB μ V)+ G_A (45.6dB/m)+ G_{PL}(-18.5 dB) =54.6dB μ V/m

Measurement results for Set.20:
Charging Mode/Average detector

Frequency(MHz)	Result(dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dB μ V)	Polarity
17922.367	44.0	-17.7	45.6	16.100	H
17962.033	43.9	-17.7	45.6	16.000	V
17960.900	43.9	-17.7	45.6	16.000	V
17952.400	43.9	-17.7	45.6	16.000	H
17852.100	43.8	-18.5	45.6	16.700	V
17958.633	43.8	-17.7	45.6	15.900	V

Charging Mode/Peak detector

Frequency(MHz)	Result(dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dB μ V)	Polarity
17839.067	55.0	-18.5	45.6	27.900	V
17949.000	54.8	-17.7	45.6	26.900	V
17951.267	54.6	-17.7	45.6	26.700	H
17887.233	54.5	-18.5	45.6	27.400	V
17948.433	54.5	-17.7	45.6	26.600	H
17985.833	54.5	-17.7	45.6	26.600	H

Sample calculation: Peak detector, 17985.833MHz

Result =P_{Mea} (26.600dB μ V)+ G_A (45.6dB/m)+ G_{PL}(-17.7 dB) =54.5dB μ V/m

Measurement results for Set.21:
Charging Mode/Average detector

Frequency(MHz)	Result(dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dB μ V)	Polarity
17875.333	44.1	-18.5	45.6	17.000	H
17911.600	44.0	-18.5	45.6	16.900	V
17943.333	43.9	-17.7	45.6	16.000	H
17967.700	43.9	-17.7	45.6	16.000	V
17945.600	43.9	-17.7	45.6	16.000	H
17890.067	43.8	-18.5	45.6	16.700	V

Charging Mode/Peak detector

Frequency(MHz)	Result(dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dB μ V)	Polarity
17941.633	55.2	-17.7	45.6	27.300	V
17818.667	54.9	-18.5	45.6	27.800	V
17906.500	54.9	-18.5	45.6	27.800	H
17784.667	54.7	-18.5	45.6	27.600	H
17984.700	54.5	-17.7	45.6	26.600	V
17837.933	54.5	-18.5	45.6	27.400	H

Sample calculation: Peak detector, 17837.933MHz

Result =P_{Mea} (27.400dB μ V)+ G_A (45.6dB/m)+ G_{PL}(-18.5 dB) =54.5dB μ V/m

Measurement results for Set.18:

USB Mode/Average detector

Frequency(MHz)	Result(dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dB μ V)	Polarity
17964.300	44.1	-17.7	45.6	16.200	H
17878.167	43.9	-18.5	45.6	16.800	V
17949.567	43.8	-17.7	45.6	15.900	H
17954.100	43.8	-17.7	45.6	15.900	V
17959.200	43.8	-17.7	45.6	15.900	H
17956.933	43.8	-17.7	45.6	15.900	H

USB Mode/Peak detector

Frequency(MHz)	Result(dB μ V/m)	G _{PL} (dB)	G _A (dB/m)	P _{Mea} (dB μ V)	Polarity
17921.800	55.4	-17.7	45.6	27.500	V
17996.033	54.8	-17.7	45.6	26.900	H
17870.800	54.7	-18.5	45.6	27.600	H
17994.900	54.7	-17.7	45.6	26.800	V
17845.300	54.6	-18.5	45.6	27.500	V
17936.533	54.6	-17.7	45.6	26.700	H

Sample calculation: Peak detector, 17936.533MHz

Result =P_{Mea} (26.700dB μ V)+ G_A (45.6dB/m)+ G_{PL}(-17.7 dB) =54.6dB μ V/m

Charging Mode, Set.17

Full Spectrum

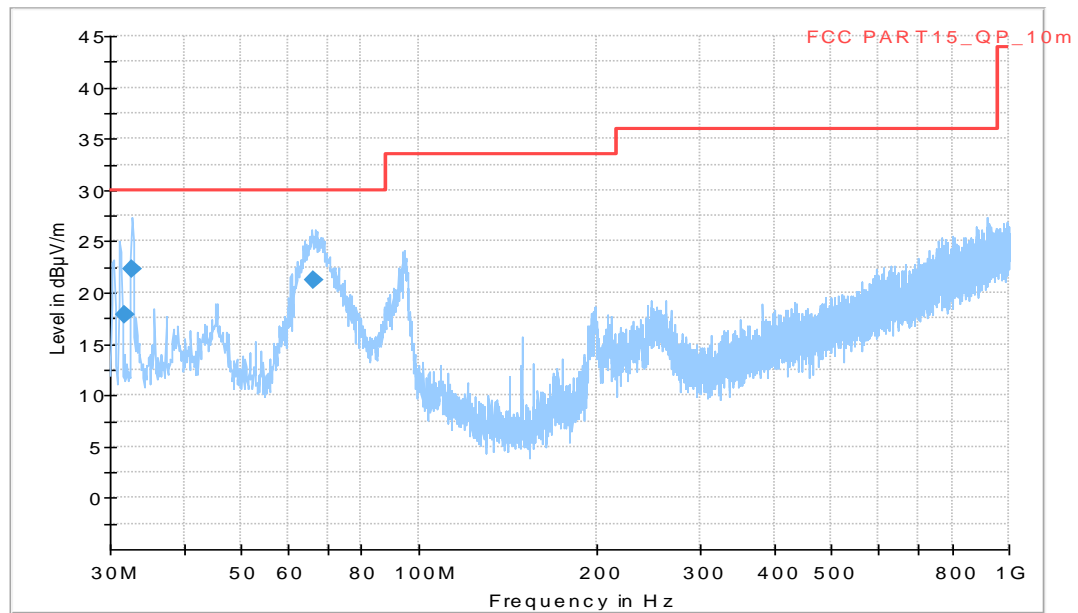


Figure A.1 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dBμV/m)
31.764000	17.81	306.0	V	83.0	12.19	30.0
32.716000	22.34	293.0	V	167.0	7.66	30.0
66.403000	21.28	104.0	V	75.0	8.72	30.0

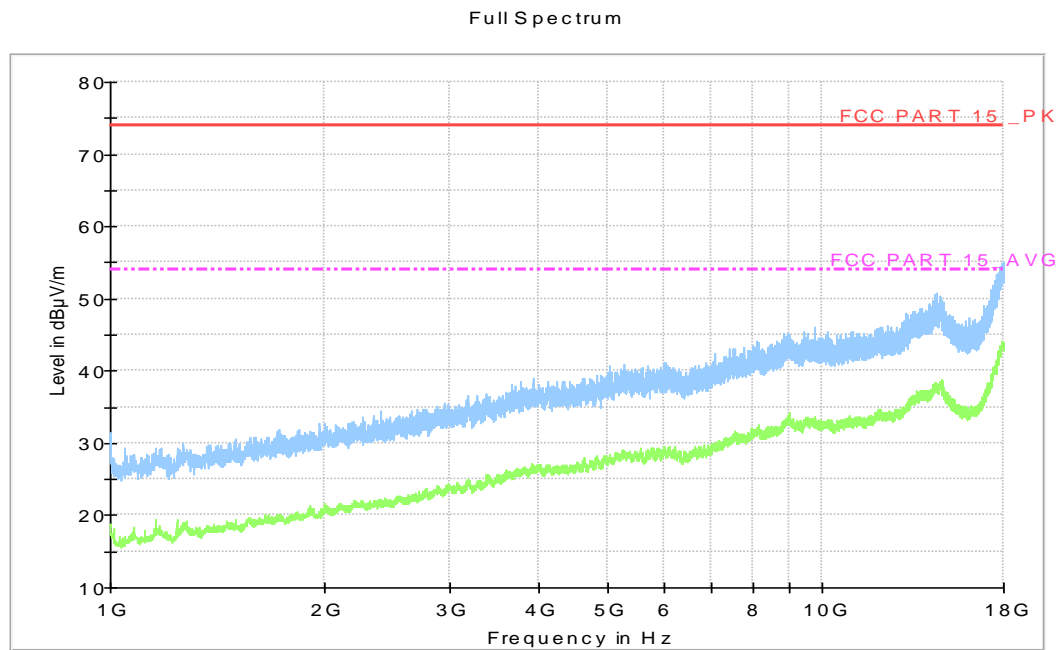


Figure A.2 Radiated Emission from 1GHz to 18GHz

Charging Mode, Set.19

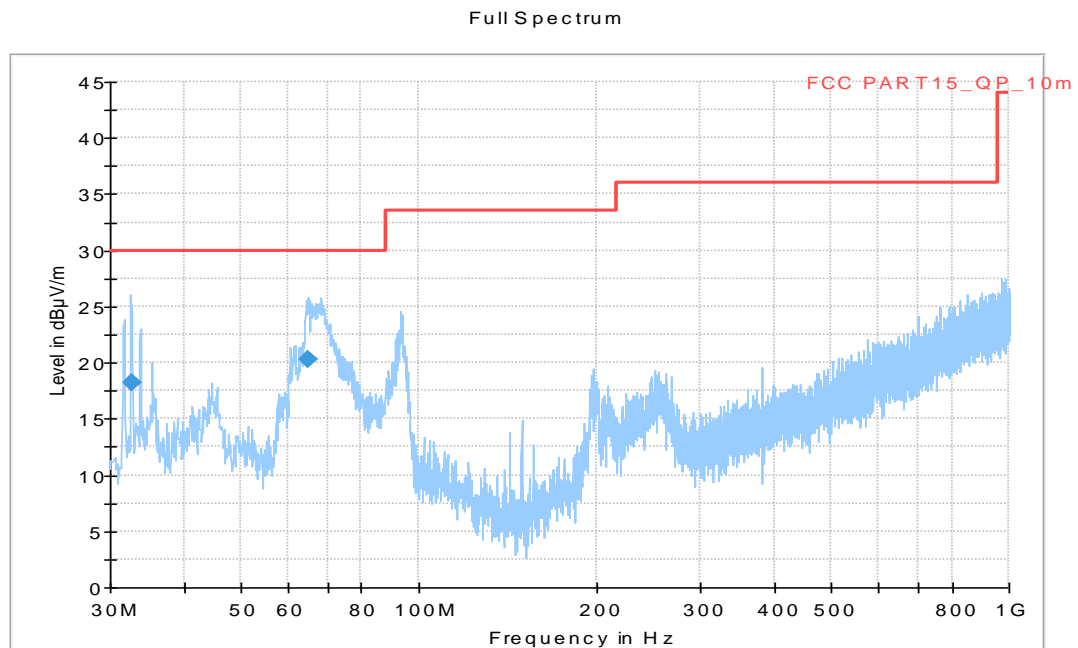


Figure A.4 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V/m)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dB μ V/m)
32.702000	18.23	103.0	V	75.0	11.77	30.0
64.717000	20.23	106.0	V	179.0	9.77	30.0

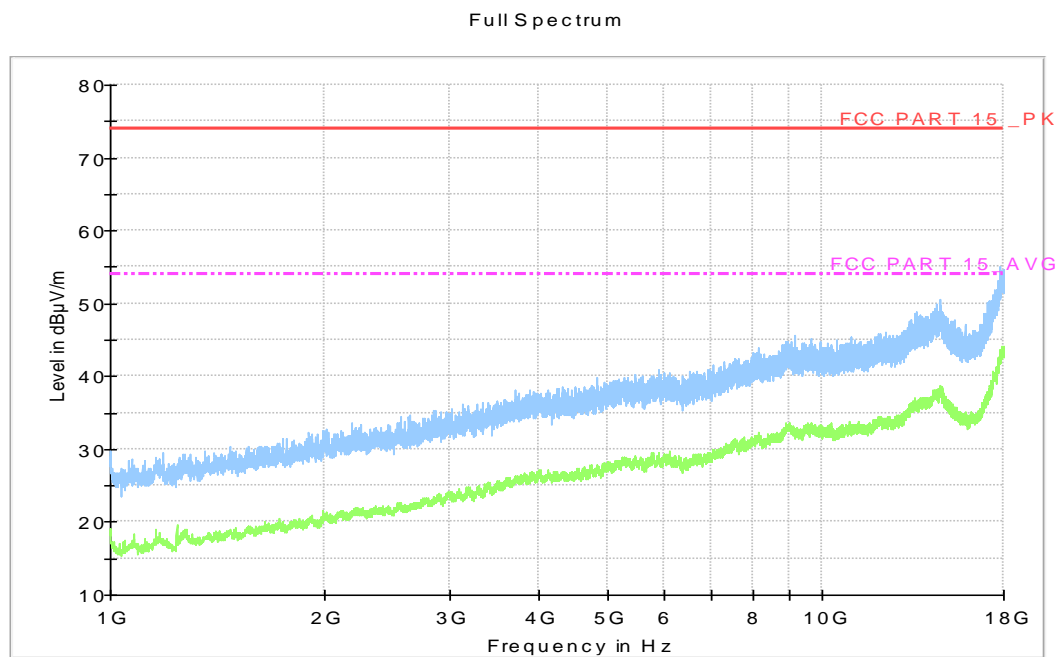


Figure A.5 Radiated Emission from 1GHz to 18GHz

Charging Mode, Set.20

Full Spectrum

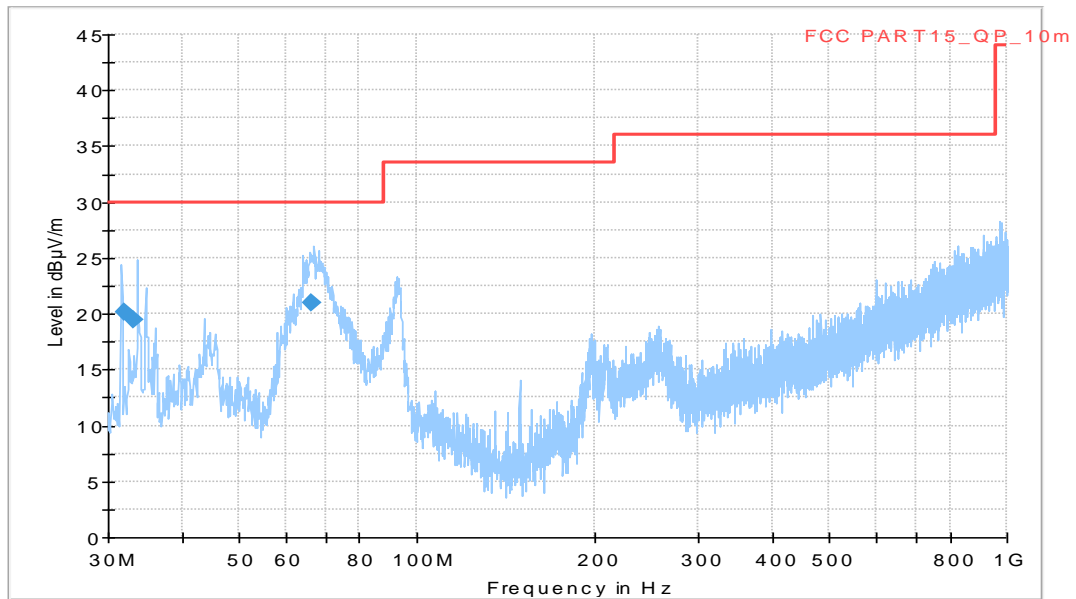


Figure A.7 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dBμV/m)
32.032000	20.14	302.0	V	61.0	9.86	30.0
33.169000	19.43	225.0	V	60.0	10.57	30.0
66.357000	20.92	276.0	V	71.0	9.08	30.0

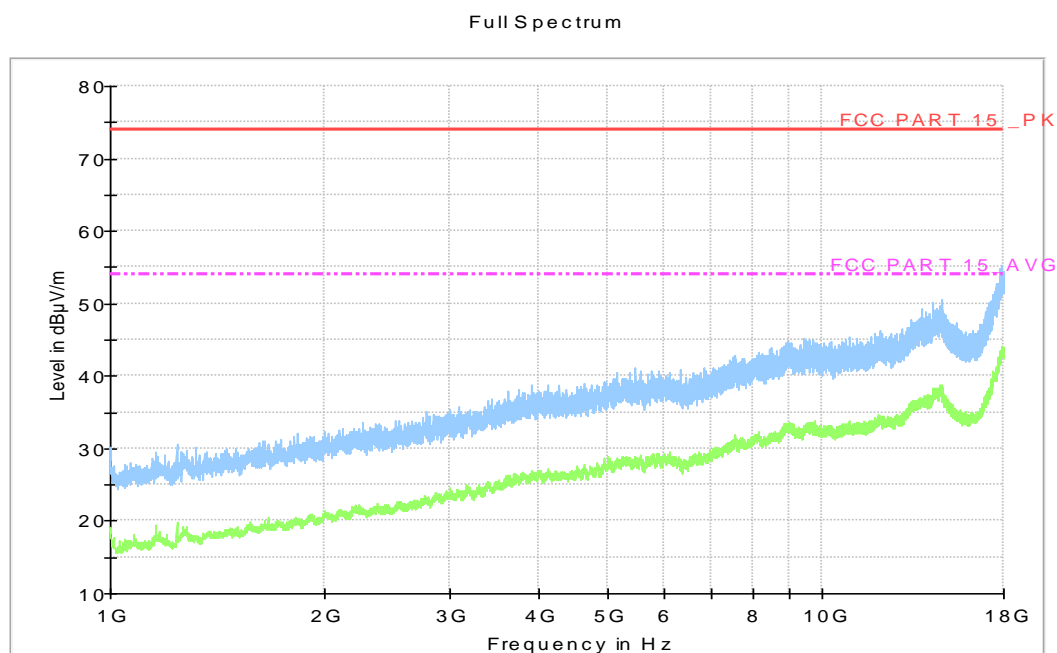


Figure A.8 Radiated Emission from 1GHz to 18GHz

Charging Mode, Set.21

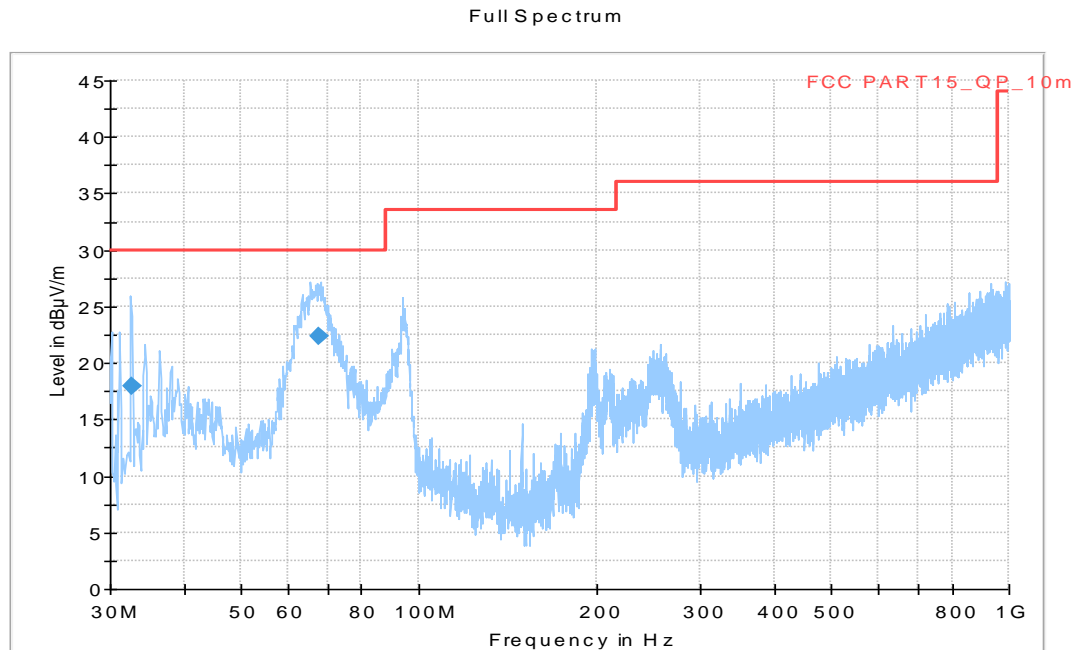


Figure A.10 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dBμV/m)
32.725000	17.93	205.0	V	150.0	12.07	30.0
67.604000	22.41	221.0	V	182.0	7.59	30.0

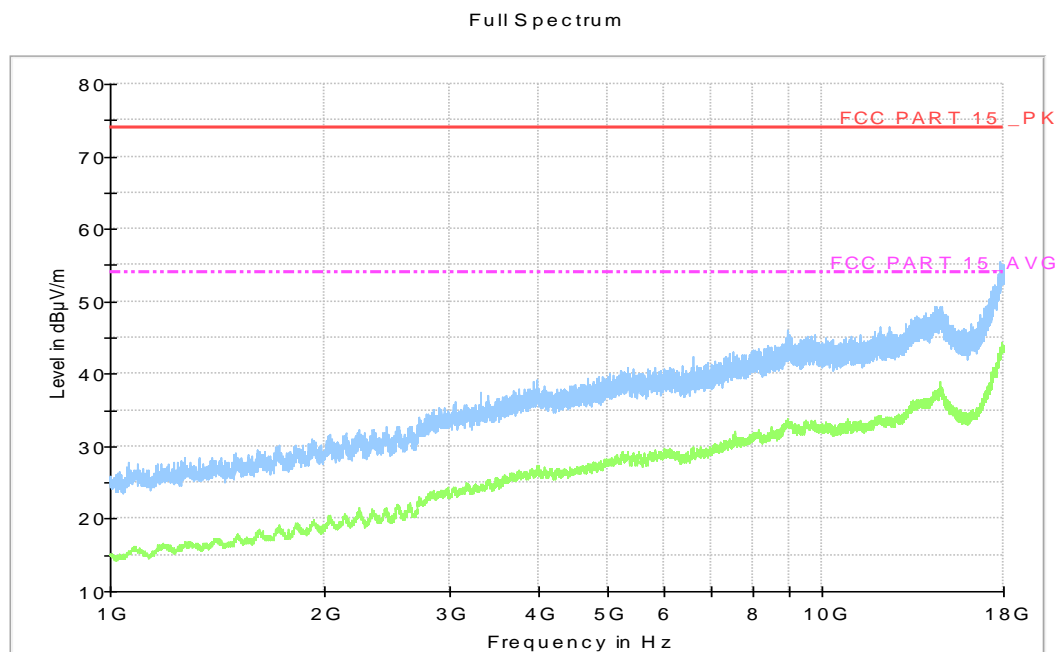


Figure A.11 Radiated Emission from 1GHz to 18GHz

USB Mode, Set.18

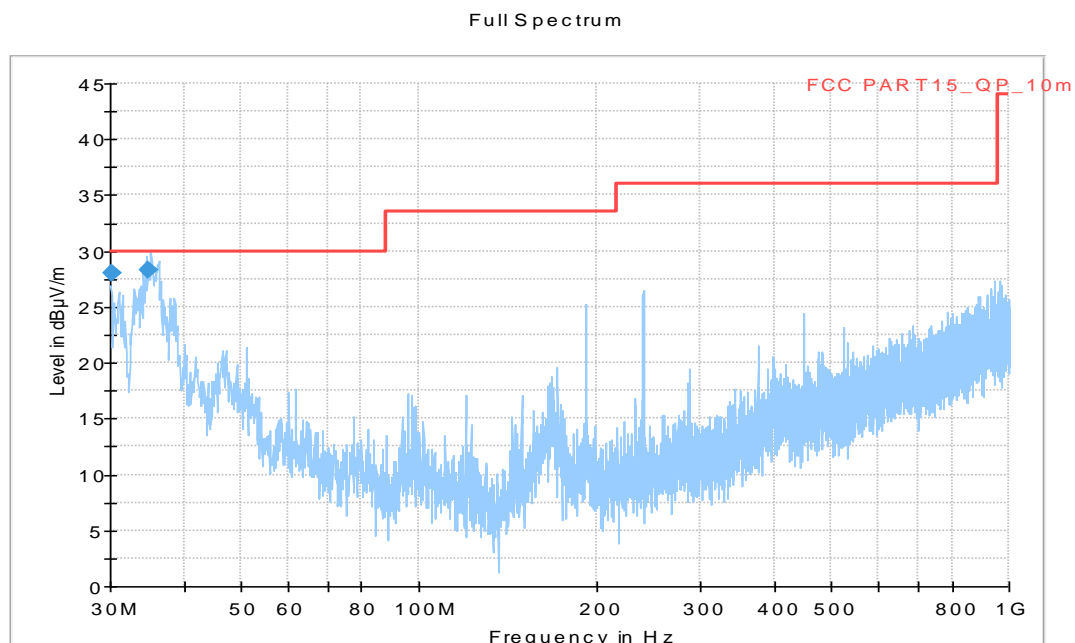


Figure A.13 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV/m)	Height (cm)	Polarization	Azimuth (deg)	Margin (dB)	Limit (dBμV/m)
30.120000	28.00	120.000	V	210.0	2.00	30.0
34.841000	28.36	120.000	V	154.0	1.64	30.0

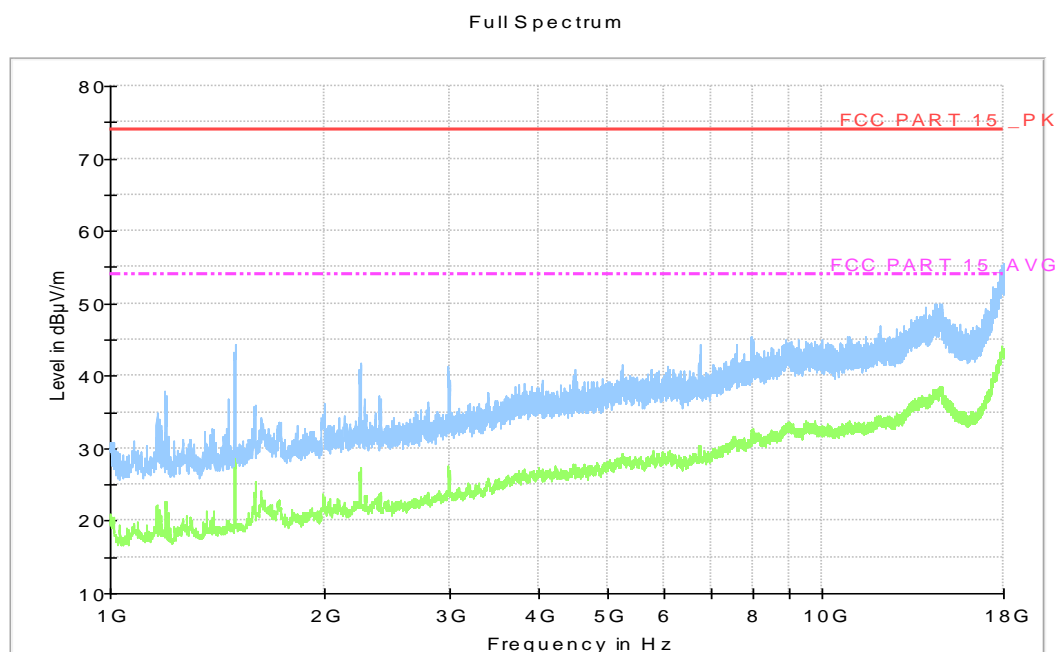


Figure A.14 Radiated Emission from 1GHz to 18GHz

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 charging mode. During the test MS is connected to a charger in the case of charging mode.

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: $U= 3.38\text{dB}$, $k=2$.

Charging Mode, Set.17

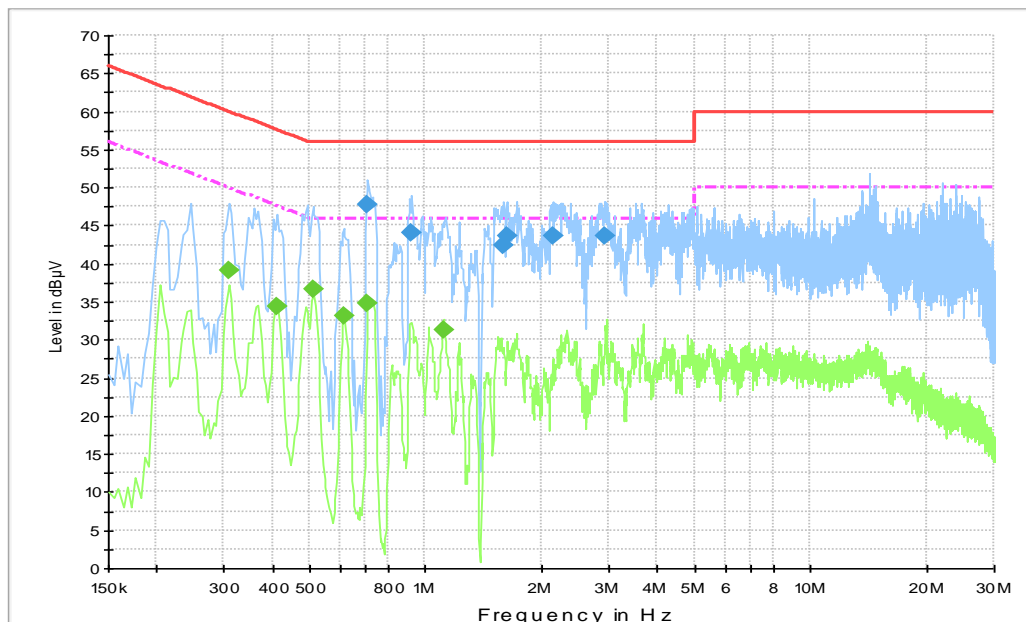


Figure A.16 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.879000	44.7	2000.0	9.000	On	L1	10.2	11.3	56.0
1.450500	46.1	2000.0	9.000	On	L1	10.2	9.9	56.0
1.936500	45.1	2000.0	9.000	On	L1	10.3	10.9	56.0
2.512500	45.1	2000.0	9.000	On	L1	10.3	10.9	56.0
4.290000	41.7	2000.0	9.000	On	L1	10.4	14.3	56.0
4.758000	42.8	2000.0	9.000	On	L1	10.4	13.2	56.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.420000	40.4	2000.0	9.000	On	L1	10.2	7.0	47.4
0.541500	42.1	2000.0	9.000	On	L1	10.2	3.9	46.0
0.663000	38.1	2000.0	9.000	On	L1	10.2	7.9	46.0
0.784500	40.9	2000.0	9.000	On	L1	10.2	5.1	46.0
1.329000	39.7	2000.0	9.000	On	L1	10.2	6.3	46.0
2.539500	38.2	2000.0	9.000	On	L1	10.3	7.8	46.0

Note: The measurement results showed here are worst cases of the combinations of different batteries and USB cables.

Charging Mode, Set.19

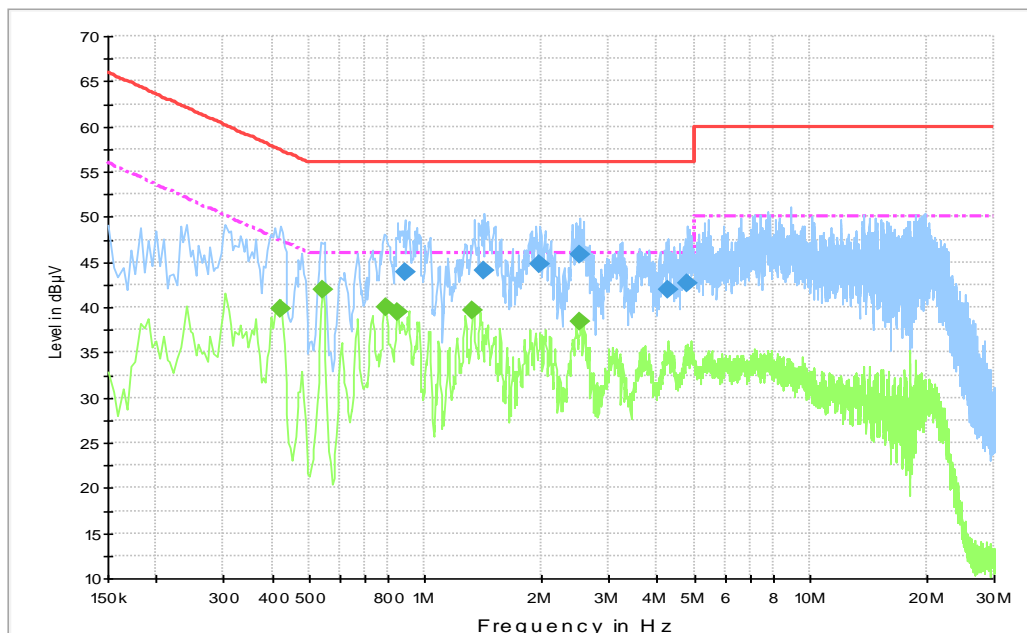


Figure A.17 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.883500	43.8	2000.0	9.000	On	L1	10.2	12.2	56.0
1.428000	44.1	2000.0	9.000	On	L1	10.2	11.9	56.0
1.990500	44.8	2000.0	9.000	On	L1	10.3	11.2	56.0
2.521500	45.8	2000.0	9.000	On	L1	10.3	10.2	56.0
4.281000	41.9	2000.0	9.000	On	L1	10.4	14.1	56.0
4.807500	42.6	2000.0	9.000	On	L1	10.4	13.4	56.0

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.420000	39.8	2000.0	9.000	On	L1	10.2	7.7	47.4
0.541500	42.0	2000.0	9.000	On	L1	10.2	4.0	46.0
0.789000	40.0	2000.0	9.000	On	L1	10.2	6.0	46.0
0.843000	39.5	2000.0	9.000	On	L1	10.2	6.5	46.0
1.324500	39.6	2000.0	9.000	On	L1	10.2	6.4	46.0
2.521500	38.4	2000.0	9.000	On	L1	10.3	7.6	46.0

Note: The measurement results showed here are worst cases of the combinations of different batteries and USB cables.

Charging Mode, Set.20

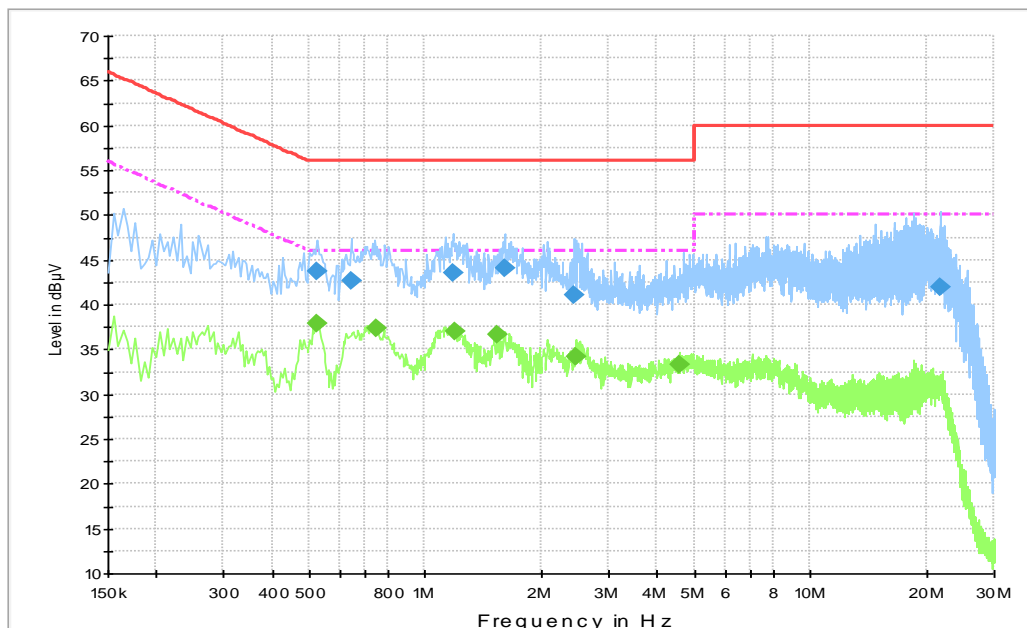


Figure A.18 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.523500	43.6	2000.0	9.000	On	L1	10.2	12.4	56.0
0.640500	42.7	2000.0	9.000	On	L1	10.2	13.3	56.0
1.180500	43.5	2000.0	9.000	On	L1	10.2	12.5	56.0
1.603500	44.1	2000.0	9.000	On	L1	10.2	11.9	56.0
2.440500	41.1	2000.0	9.000	On	L1	10.3	14.9	56.0
21.705000	41.9	2000.0	9.000	On	N	11.0	18.1	60.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.523500	37.9	2000.0	9.000	On	L1	10.2	8.1	46.0
0.748500	37.4	2000.0	9.000	On	L1	10.2	8.6	46.0
1.189500	37.1	2000.0	9.000	On	L1	10.2	8.9	46.0
1.545000	36.7	2000.0	9.000	On	L1	10.2	9.3	46.0
2.458500	34.2	2000.0	9.000	On	L1	10.3	11.8	46.0
4.551000	33.2	2000.0	9.000	On	L1	10.4	12.8	46.0

Note: The measurement results showed here are worst cases of the combinations of different batteries and USB cables.

Charging Mode, Set.21

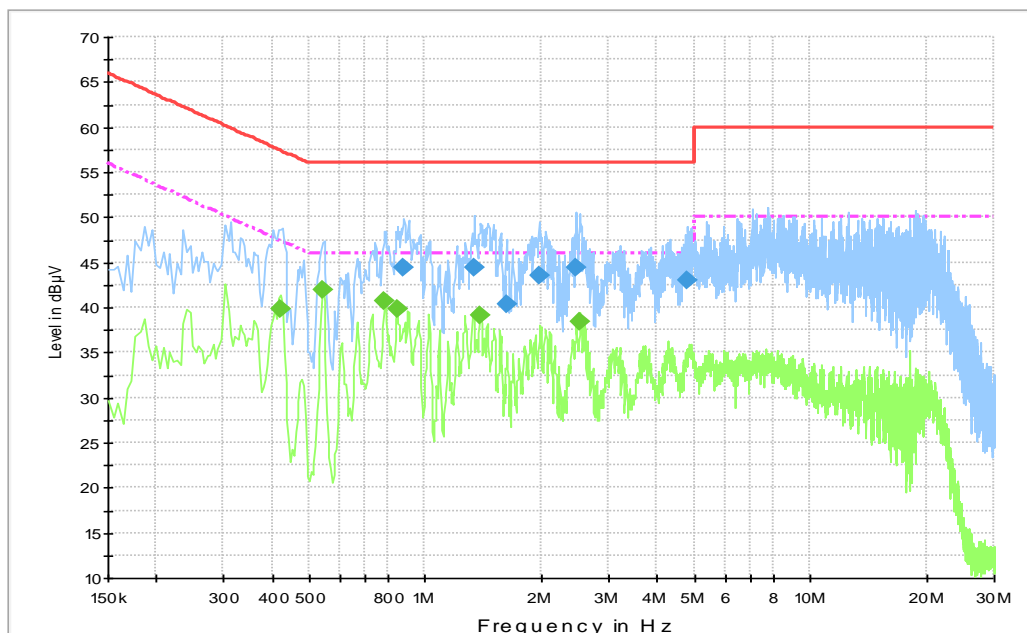


Figure A.19 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.879000	44.4	2000.0	9.000	On	L1	10.2	11.6	56.0
1.342500	44.3	2000.0	9.000	On	L1	10.2	11.7	56.0
1.621500	40.4	2000.0	9.000	On	N	10.3	15.6	56.0
1.972500	43.6	2000.0	9.000	On	L1	10.3	12.4	56.0
2.472000	44.3	2000.0	9.000	On	L1	10.3	11.7	56.0
4.807500	43.0	2000.0	9.000	On	L1	10.4	13.0	56.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.420000	39.8	2000.0	9.000	On	L1	10.2	7.6	47.4
0.541500	42.0	2000.0	9.000	On	L1	10.2	4.0	46.0
0.784500	40.8	2000.0	9.000	On	L1	10.2	5.2	46.0
0.847500	39.7	2000.0	9.000	On	L1	10.2	6.3	46.0
1.392000	39.1	2000.0	9.000	On	L1	10.2	6.9	46.0
2.521500	38.5	2000.0	9.000	On	L1	10.3	7.5	46.0

Note: The measurement results showed here are worst cases of the combinations of different batteries and USB cables.

USB Mode, Set.18

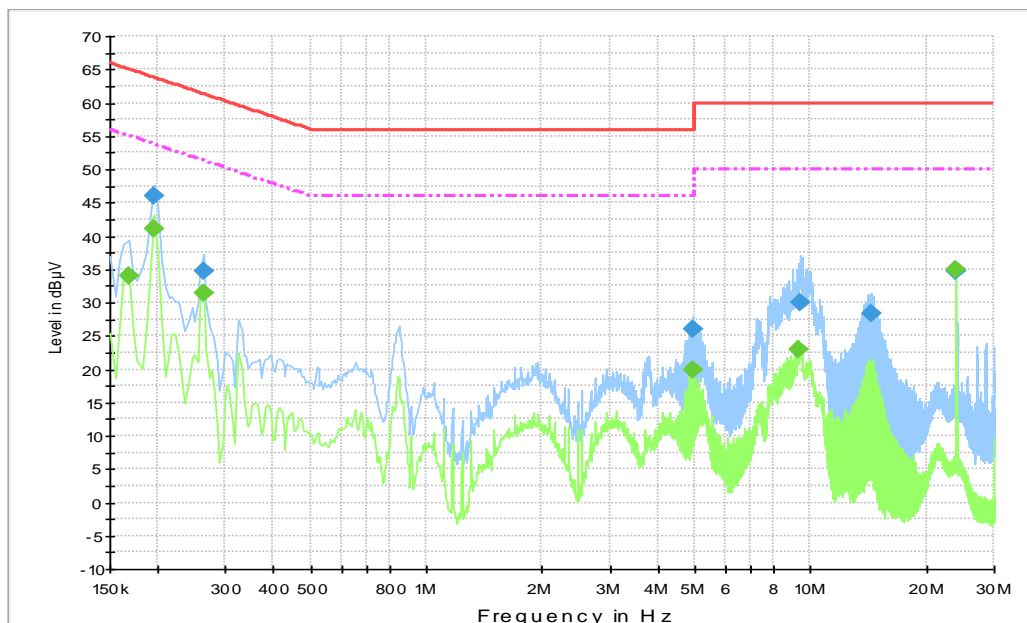


Figure A.20 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.195000	45.9	2000.0	9.000	On	L1	10.2	17.9	63.8
0.262500	34.6	2000.0	9.000	On	L1	10.2	26.7	61.4
4.951500	25.9	2000.0	9.000	On	L1	10.4	30.1	56.0
9.348000	30.0	2000.0	9.000	On	L1	10.6	30.0	60.0
14.329500	28.5	2000.0	9.000	On	N	10.8	31.5	60.0
23.968500	34.8	2000.0	9.000	On	L1	11.3	25.2	60.0

Final Result 2

Frequency (MHz)	CAverage (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.168000	33.9	2000.0	9.000	On	L1	10.2	21.2	55.1
0.195000	41.0	2000.0	9.000	On	L1	10.2	12.8	53.8
0.262500	31.5	2000.0	9.000	On	L1	10.2	19.9	51.4
4.951500	20.0	2000.0	9.000	On	L1	10.4	26.0	46.0
9.316500	22.9	2000.0	9.000	On	N	10.6	27.1	50.0
23.968500	34.9	2000.0	9.000	On	L1	11.3	15.1	50.0

Note: The measurement results showed here are worst cases of the combinations of different batteries and USB cables.

END OF REPORT