



TEST REPORT

No. I22Z61952-EMC01

for

Honor Device Co., Ltd.

Smart Phone

Model Name: RMO-NX1

FCC ID: 2AYGCRMO-NX1

with

Hardware Version: HN2RMOM

Software Version: 6.1.0.21(C900E21R1P1)

Issued Date: 2022-11-11

Note:

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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:

CTTL-Telecommunication Technology Labs, CAICT

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No.I22Z61952-EMC01

REPORT HISTORY

Report Number	Revision	Description	Issue Date
I22Z61952-EMC01	Rev.0	1 st edition	2022-11-11

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 17025:2005 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 (CN0066). The detail accreditation scope can be found on NVLAP website.

1.2. Testing Location

CTTL (huayuan North Road)

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

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

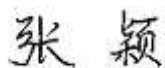
Relative Humidity: 20-75%

1.4. Project data

Testing Start Date: 2022-10-25

Testing End Date: 2022-11-09

1.5. Signature



Zhang Ying

(Prepared this test report)



An Hui

(Reviewed this test report)



Shi Suolan

(Approved this test report)



2. Client Information

2.1. Applicant Information

Company Name: Honor Device Co., Ltd.
Address /Post: Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China

2.2. Manufacturer Information

Company Name: Honor Device Co., Ltd.
Address /Post: Shum Yip Sky Park, No. 8089, Hongli West Road, Shenzhen, China

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

3.1. About EUT

Description	Smart Phone
Model Name	RMO-NX1
FCC ID	2AYGCRMO-NX1
Extreme vol. Limits	3.6VDC to 4.45VDC (nominal: 3.87VDC)

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
UT22a	869123060004322/ 869123060008596	HN2RMOM	6.1.0.21(C900E21R1P1)
UT25a	869123060003670/ 869123060007945	HN2RMOM	6.1.0.21(C900E21R1P1)
UT26a	869123060004835/ 869123060009107	HN2RMOM	6.1.0.21(C900E21R1P1)
UT08a	867370060002101/ 867370060006904	HN2RMOM	6.1.0.21(C900E21R1P1)

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

Note:

The Equipment Under Test (EUT) model RMO-NX1 (FCC ID: 2AYGCRMO-NX1) is a variant product of RMO-NX3(FCC ID: 2AYGCRMO-NX3), according to the declaration of changes provided by the applicant, the difference between RMO-NX3 and RMO-NX1 are show in the below table and the additional tests were applied which listed in chapter 3.5. The other test results are derived from test report No.I22Z61813-EMC01. For detail differences between two models please refer the Declaration of Changes document.

	Model	RMO-NX3 (before)	RMO-NX1 (after)
Licensed Frequency	LTE BAND	B2/B4/B5/B7/B12/B13/ B17/B26/B38/B41/B66 Not support CA	B2/B4/B5/B7/B38/B41 Support UL CA 7C/41C
	UMTS BAND	B2/B4/B5	B2/B5
	GSM	B2/B5	B2/B5
	5G NR Band	N2/N7/N38/N41/N66/N 78 Not support CA	N7/N38/N41/N78 Support DL CA n7A-n78A
	IC	the same	the same
	Antenna	The antenna matching and routing of the same frequency are the same.	The antenna matching and routing of the same frequency are the same.
Unlicensed	NFC	Not support	Support

Frequency	Bluetooth	the same	the same
	Wi-Fi	the same	the same
	GPS	the same	the same
	IC	the same	the same
	Antenna	the same	the same
Hardware	Ram / Rom	the same	the same
	PCB	the same	the same
	USB Port	the same	the same
	SIM	the same	the same
RF	RF circuit	The RF circuit of the same frequency is the same.	1、 The RF transmit and receive circuits of LTE B2/B4 and WCDMA B2 are different. 2、 The RF receive circuit of GSM B2 is different. 3、 The rest of the same frequency band RF circuit is the same. 4、 The different frequency band changed by delete LTE B12/13/17/26/66 and NR N66 SAWS、 switch、 LNA and RF matching components.
	Tune-up	The tune-up of the same frequency are the same	The tune-up of LTE B2/B4 and WCDMA B2 are different.
Appearance	Dimension	the same	the same
	Color	the same	the same
Accessory	Battery	the same	the same
	Charger	the same	the same
	USB Cable	the same	the same
	Earphone	the same	the same

3.3. Internal Identification of AE used during the test

AE ID*	Name	Model	Manufacturer
AE1-1	Adapter	HW-100400E01	Honor Device Co., Ltd.
AE1-2	Adapter	HW-100400B01	Honor Device Co., Ltd.
AE1-3	Adapter	HW-100400U01	Honor Device Co., Ltd.
AE2-1	USB Cable	WA0052	Broad
AE2-2	USB Cable	CUDU01B-HC385-EH	FOXCONN
AE2-3	USB Cable	L99UC144-CS-H	LUXSHARE

AE2-4	USB Cable	AU2-CRO009HF	Freeport
AE2-5	USB Cable	2120-00062-0	MING JI
AE2-6	USB Cable	2120-00060-0	MING JI
AE2-7	USB Cable	L99UC139-CS-H	LUXSHARE
AE3-1	Headset	1293-3283-3.5mm-339	Quancheng
AE3-2	Headset	EPAB542-2WH05-DH	FOXCONN
AE3-3	Headset	MEND1532B528C00	Lianchuang
AE4-1	Battery	HB506492EFW	Honor Device Co., Ltd. (Sunwoda)
AE4-2	Battery	HB506492EFW	Honor Device Co., Ltd. (Desay)
AE4-3	Battery	HB506492EFW	Honor Device Co., Ltd. (CosMX)
AE5-1	Type-C to 3.5mm	USB042020090AW7	LC
AE5-2	Type-C to 3.5mm	6001-7001-TC-348	QC

*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.1	UT22a + AE4-1 + AE2-1 + AE1-3	
Set.2	UT25a + AE4-2 + AE2-2 + AE1-3	
Set.3	UT26a + AE4-3 + AE2-3 + AE1-3	
Set.4	UT22a + AE4-1 + AE2-4 + AE1-3	
Set.5	UT25a + AE4-2 + AE3-1 + AE5-1	
Set.6	UT26a + AE4-3 + AE3-2 + AE5-2	
Set.7	UT22a + AE4-1 + AE3-3 + AE5-1	
Set.8	UT25a + AE4-2 + AE2-1	
Set.9	UT26a + AE4-3 + AE2-2	
Set.10	UT22a + AE4-1 + AE2-3	
Set.11	UT25a + AE4-2 + AE2-4	
Set.12	UT26a + AE4-3 + AE2-5	
Set.13	UT22a + AE4-1 + AE2-5 + AE1-3	

3.5. Test summary

EUT set-up No.	Test mode	Test result	
		Radiated Emission	Conducted Emission
Set.1	GSM 850 + Real Camera	Pass	Pass
Set.2	WCDMA 850 + Real Camera	Pass	Pass
Set.3	LTE band5 + front camera	Pass	Pass
Set.8	USB TO PC	Pass	Pass
Set.9	USB TO PC	Pass	Pass
Set.10	USB TO PC	Pass	Pass

Set.11	USB TO PC	Pass	Pass
Set.12	USB TO PC	Pass	Pass
Set.13	Black screen	Pass	Pass

According to the difference, RMO-NX1 added the test as follow:

EUT set-up No.	Combination of EUT and AE	Remarks
Set.20	UT08a + AE4-1 + AE2-3	

EUT set-up No.	Test mode	Test result	
		Radiated Emission	Conducted Emission
Set.20	USB TO PC	Pass	/

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	2021
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 M
Ground system resistance	< 4
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

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

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 bei) CTTL (BDA)
2	Conducted Emission	15.107(a)	B.2	P	CTTL (BDA)

7. Test Equipments Utilized

Equipment for I22Z61813

NO.	Description	TYPE	SERIES NUMBER	MANUFACTURE	CAL DUE DATE	CALIBRATION INTERVAL
1	LISN	ENV216	101459	Rohde & Schwarz	2023-03-16	1 year
2	Test Receiver	ESCI	100766	Rohde & Schwarz	2023-03-02	1 Year
3	Test Receiver	ESW44	103015	Rohde & Schwarz	2023-01-23	1 year
4	BiLog Antenna	VULB9163	01223	Schwarzbeck	2023-07-25	1 Year
5	EMI Antenna	3115	00167250	ETS-Lindgren	2023-06-20	1 year
6	Universal Radio Communication Tester	CMW500	116588	R&S	2022-12-20	1 Year
7	PC	OPTIPLEX 380	2X1YV2X	DELL	N/A	N/A
8	Printer	P1606dn	VNC3L52122	HP	N/A	N/A
9	Keyboard	L100	CN0RH6596589 07ATOI40	DELL	N/A	N/A
10	Mouse	M-UAE119	LZ935220ZRC	Lenovo	N/A	N/A

Test Item	Test Software and Version	Software Vendor
Conducted Emission	EMC32 V8.52.0	R&S
Radiated Emission	EMC32 V10.60.20	R&S

Equipment for I22Z61952

NO.	Description	TYPE	SERIES NUMBER	MANUFACTURE	CAL DUE DATE	CALIBRATION INTERVAL
3	Test Receiver	ESU26	100376	R&S	2023-09-22	1 year
4	EMI Antenna	VULB 9163	01177	Schwarzbeck	2023-08-03	1 Year
5	EMI Antenna	3117	00119024	Schwarzbeck	2023-06-07	1 Year
6	Universal Radio Communication Tester	CMW500	159408	R&S	2023-03-02	1 Year
7	Universal Radio Communication Tester	CMW500	167943	R&S	2023-04-13	1 Year
8	PC	E500-1042	2140770010640 901850	Tsinghua Tongfang	N/A	N/A
9	Printer	1160	33740	HP	N/A	N/A
10	Keyboard	/	/	/	N/A	N/A
11	Mouse	/	/	/	N/A	N/A



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Test Item	Test Software and Version	Software Vendor
Radiated 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 3/10 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 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 EUT was tested while operating in licensed band Rx mode with Camera/MP3. 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.

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.

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:

Frequency range	Measurement uncertainty
30MHz-1GHz	5.18dB, k=2
1GHz-18GHz	5.54dB, k=2

Measurement results for Set.1, Real Camera + WCDMA 850MHz idle:
Charging Mode/QP detector

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
52.601000	19.9	30.0	10.1	100.0	V	285.0
55.026000	19.5	30.0	10.5	100.0	V	315.0
84.999000	10.0	30.0	20.0	100.0	V	315.0
119.725000	10.5	33.5	23.0	100.0	V	272.0
161.144000	17.6	33.5	15.9	125.0	V	14.0
174.336000	15.8	33.5	17.8	100.0	V	135.0

Charging 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)
17993.540	42.20	-29.06	46.66	24.60	54.00	11.80	H
17931.320	41.80	-29.40	46.66	24.54	54.00	12.20	H
17994.220	41.80	-29.06	46.66	24.20	54.00	12.20	H
17999.320	41.70	-29.06	46.66	24.10	54.00	12.30	V
17902.760	41.60	-29.33	45.95	24.97	54.00	12.40	V
17933.020	41.60	-29.40	46.66	24.34	54.00	12.40	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)
17619.880	53.00	-29.52	45.25	37.27	74.00	21.00	H
17460.760	52.90	-30.06	44.35	38.60	74.00	21.10	V
17631.440	52.70	-29.40	45.25	36.85	74.00	21.30	V
17974.160	52.70	-29.06	46.66	35.10	74.00	21.30	H
17950.360	52.70	-28.94	46.66	34.98	74.00	21.30	H
17551.540	52.50	-29.49	44.35	37.63	74.00	21.50	V

Measurement results for Set.2, Real Camera + WCDMA 850MHz idle:
Charging Mode/QP detector

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
52.601000	19.9	30.0	10.1	100.0	V	225.0
55.705000	19.2	30.0	10.8	175.0	V	225.0
60.555000	16.8	30.0	13.2	275.0	V	-35.0
159.107000	17.7	33.5	15.8	100.0	V	56.0
173.172000	15.0	33.5	18.5	100.0	V	0.0
181.611000	15.7	33.5	17.9	100.0	V	170.0

Charging 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)
17985.040	41.80	-29.06	46.66	24.20	54.00	12.20	V
17980.620	41.80	-29.06	46.66	24.20	54.00	12.20	V
17977.900	41.70	-29.06	46.66	24.10	54.00	12.30	V
17791.920	41.60	-29.89	45.95	25.53	54.00	12.40	V
17915.000	41.60	-29.33	46.66	24.27	54.00	12.40	H
17964.300	41.60	-29.06	46.66	24.00	54.00	12.40	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)
17476.740	53.20	-30.06	44.35	38.90	74.00	20.80	V
17533.180	52.90	-29.32	44.35	37.87	74.00	21.10	V
17486.940	52.70	-29.77	44.35	38.12	74.00	21.30	H
17978.240	52.40	-29.06	46.66	34.80	74.00	21.60	V
17954.100	52.40	-28.94	46.66	34.68	74.00	21.60	H
17997.960	52.30	-29.06	46.66	34.70	74.00	21.70	V

Measurement results for Set.3, Front camera+ LTE band 5 idle:
Charging Mode/QP detector

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
52.213000	18.2	30.0	11.8	100.0	V	-22.0
54.929000	19.9	30.0	10.1	125.0	V	80.0
97.512000	8.4	33.5	25.1	100.0	V	225.0
158.234000	15.6	33.5	17.9	100.0	V	27.0
173.754000	17.1	33.5	16.5	100.0	V	45.0
179.962000	14.6	33.5	18.9	100.0	V	146.0

Charging Mode/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)
17994.220	42.30	-29.06	46.66	24.70	54.00	11.70	H
17995.920	42.10	-29.06	46.66	24.50	54.00	11.90	V
17993.540	41.90	-29.06	46.66	24.30	54.00	12.10	V
17546.100	41.90	-29.49	44.35	27.03	54.00	12.10	V
17893.240	41.80	-29.53	45.95	25.38	54.00	12.20	V
17902.080	41.70	-29.33	45.95	25.07	54.00	12.30	V

Charging Mode/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)
17980.620	52.90	-29.06	46.66	35.30	74.00	21.10	V
17971.440	52.60	-29.06	46.66	35.00	74.00	21.40	H
17995.240	52.50	-29.06	46.66	34.90	74.00	21.50	V
17612.400	52.40	-29.52	45.25	36.67	74.00	21.60	H
17944.920	52.40	-28.94	46.66	34.68	74.00	21.60	H
17799.400	52.30	-29.89	45.95	36.23	74.00	21.70	V

Measurement results for Set.8, USB TO PC:
Charging Mode/QP detector

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
34.656000	19.0	30.0	11.0	100.0	V	225.0
53.280000	18.0	30.0	12.0	100.0	V	272.0
97.609000	17.2	33.5	16.3	100.0	V	45.0
145.139000	16.6	33.5	16.9	125.0	V	39.0
480.274000	27.2	36.0	8.8	275.0	V	15.0
672.043000	27.1	36.0	9.0	100.0	H	180.0

Charging Mode/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)
6051.380	43.00	-37.82	34.40	46.42	54.00	11.00	V
17991.160	42.80	-29.06	46.66	25.20	54.00	11.20	H
17539.640	42.30	-29.32	44.35	27.27	54.00	11.70	H
17999.320	42.20	-29.06	46.66	24.60	54.00	11.80	V
17579.760	42.10	-29.79	45.25	26.65	54.00	11.90	H
6051.040	42.10	-37.82	34.40	45.52	54.00	11.90	V

Charging Mode/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)
17991.840	54.30	-29.06	46.66	36.70	74.00	19.70	V
17231.940	52.90	-29.57	43.36	39.11	74.00	21.10	H
17547.800	52.80	-29.49	44.35	37.93	74.00	21.20	H
17637.220	52.80	-29.40	45.25	36.95	74.00	21.20	H
17680.060	52.70	-29.98	45.25	37.43	74.00	21.30	V
17872.500	52.60	-29.39	45.95	36.04	74.00	21.40	V

Measurement results for Set.9, USB TO PC:
Charging Mode/QP detector

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
36.208000	19.1	30.0	10.9	200.0	V	225.0
52.698000	18.0	30.0	12.0	125.0	V	225.0
98.967000	18.8	33.5	14.7	100.0	V	15.0
545.070000	25.5	36.0	10.5	225.0	V	0.0
594.637000	27.4	36.0	8.6	225.0	V	0.0
673.207000	27.3	36.0	8.8	175.0	V	0.0

Charging 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)
6051.380	43.60	-37.82	34.40	47.02	54.00	10.40	H
6051.720	42.50	-37.82	34.40	45.92	54.00	11.50	V
17998.300	42.10	-29.06	46.66	24.50	54.00	11.90	H
17990.480	41.90	-29.06	46.66	24.30	54.00	12.10	V
17540.660	41.80	-29.49	44.35	26.93	54.00	12.20	V
17997.280	41.70	-29.06	46.66	24.10	54.00	12.30	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)
17993.880	53.30	-29.06	46.66	35.70	74.00	20.70	H
17993.200	53.20	-29.06	46.66	35.60	74.00	20.80	V
17887.800	53.10	-29.53	45.95	36.68	74.00	20.90	H
17975.860	53.00	-29.06	46.66	35.40	74.00	21.00	H
17993.540	52.90	-29.06	46.66	35.30	74.00	21.10	V
17982.660	52.70	-29.06	46.66	35.10	74.00	21.30	V

Measurement results for Set.10, USB TO PC:
Charging Mode/QP detector

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
35.432000	19.3	30.0	10.7	100.0	V	135.0
52.407000	18.1	30.0	11.9	100.0	V	260.0
96.833000	16.2	33.5	17.3	100.0	V	180.0
144.169000	16.3	33.5	17.2	221.0	V	39.0
528.386000	26.6	36.0	9.5	225.0	V	0.0
672.334000	29.1	36.0	6.9	175.0	V	3.0

Charging Mode/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)
6051.720	43.60	-37.82	34.40	47.02	54.00	10.40	V
17977.220	41.80	-29.06	46.66	24.20	54.00	12.20	H
17997.280	41.80	-29.06	46.66	24.20	54.00	12.20	V
17996.600	41.70	-29.06	46.66	24.10	54.00	12.30	H
17972.800	41.70	-29.06	46.66	24.10	54.00	12.30	V
17989.120	41.70	-29.06	46.66	24.10	54.00	12.30	V

Charging Mode/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)
17999.660	53.00	-29.06	46.66	35.40	74.00	21.00	V
17869.100	52.50	-29.39	45.95	35.94	74.00	21.50	V
17574.660	52.50	-29.79	45.25	37.05	74.00	21.50	H
17995.920	52.50	-29.06	46.66	34.90	74.00	21.50	V
17571.260	52.40	-29.79	45.25	36.95	74.00	21.60	V
17998.980	52.30	-29.06	46.66	34.70	74.00	21.70	V

Measurement results for Set.11, USB TO PC:
Charging Mode/QP detector

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
35.529000	19.7	30.0	10.3	175.0	V	225.0
52.213000	18.3	30.0	11.7	100.0	V	235.0
96.154000	16.5	33.5	17.0	225.0	V	28.0
144.460000	15.7	33.5	17.8	100.0	V	225.0
195.967000	14.5	33.5	19.1	100.0	V	118.0
592.891000	26.3	36.0	9.7	225.0	V	14.0

Charging Mode/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)
6051.720	44.00	-37.82	34.40	47.42	54.00	10.00	V
17987.420	42.50	-29.06	46.66	24.90	54.00	11.50	V
6051.380	42.30	-37.82	34.40	45.72	54.00	11.70	H
17991.500	41.80	-29.06	46.66	24.20	54.00	12.20	V
17989.120	41.70	-29.06	46.66	24.10	54.00	12.30	V
17989.800	41.70	-29.06	46.66	24.10	54.00	12.30	H

Charging Mode/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)
3591.820	53.50	-39.31	31.15	61.66	74.00	20.50	V
17786.480	52.70	-29.89	45.95	36.63	74.00	21.30	V
17537.940	52.60	-29.32	44.35	37.57	74.00	21.40	V
17542.360	52.50	-29.49	44.35	37.63	74.00	21.50	V
18000.000	52.50	-29.24	47.00	34.74	74.00	21.50	H
17989.800	52.50	-29.06	46.66	34.90	74.00	21.50	V

Measurement results for Set.12, USB TO PC:
Charging Mode/QP detector

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
34.850000	20.1	30.0	9.9	125.0	V	225.0
54.250000	16.9	30.0	13.1	125.0	V	225.0
144.169000	17.7	33.5	15.8	100.0	V	45.0
404.808000	20.4	36.0	15.6	200.0	H	180.0
480.953000	26.7	36.0	9.4	300.0	V	14.0
672.043000	26.9	36.0	9.1	100.0	H	92.0

Charging 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)
6051.720	43.90	-37.82	34.40	47.32	54.00	10.10	H
6052.060	43.20	-37.82	34.40	46.62	54.00	10.80	V
17906.840	41.90	-29.33	45.95	25.27	54.00	12.10	H
17556.300	41.80	-29.49	44.35	26.93	54.00	12.20	V
17998.640	41.80	-29.06	46.66	24.20	54.00	12.20	H
17886.100	41.70	-29.53	45.95	25.28	54.00	12.30	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)
17556.300	53.20	-29.49	44.35	38.33	74.00	20.80	H
17992.520	53.00	-29.06	46.66	35.40	74.00	21.00	H
17654.220	53.00	-29.60	45.25	37.35	74.00	21.00	V
17984.020	53.00	-29.06	46.66	35.40	74.00	21.00	H
17931.660	52.70	-29.40	46.66	35.44	74.00	21.30	V
17994.900	52.70	-29.06	46.66	35.10	74.00	21.30	H

Measurement results for Set.13, black screen:
Charging Mode/QP detector

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
50.564000	17.06	30.00	12.94	112.0	V	162.0
58.033000	14.24	30.00	15.76	112.0	V	135.0
115.845000	14.08	33.52	19.44	187.0	V	35.0
126.709000	14.80	33.52	18.72	112.0	V	45.0
160.271000	19.55	33.52	13.97	175.0	V	22.0
226.619000	9.31	36.02	26.71	282.0	H	8.0

Charging Mode/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)
17974.160	42.00	-29.06	46.66	24.40	54.00	12.00	V
17985.040	42.00	-29.06	46.66	24.40	54.00	12.00	V
17994.560	42.00	-29.06	46.66	24.40	54.00	12.00	V
17998.980	41.90	-29.06	46.66	24.30	54.00	12.10	H
17974.500	41.70	-29.06	46.66	24.10	54.00	12.30	H
17911.940	41.70	-29.33	45.95	25.07	54.00	12.30	H

Charging Mode/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)
17983.340	52.70	-29.06	46.66	35.10	74.00	21.30	V
17616.480	52.70	-29.52	45.25	36.97	74.00	21.30	H
17552.900	52.60	-29.49	44.35	37.73	74.00	21.40	V
17566.840	52.50	-29.79	45.25	37.05	74.00	21.50	V
17964.980	52.50	-29.06	46.66	34.90	74.00	21.50	V
17975.520	52.50	-29.06	46.66	34.90	74.00	21.50	H

Measurement results for Set.20, USB TO PC:
Charging Mode/QP detector

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)
30.291000	29.1	40.0	10.9	100.0	V	127.0
30.776000	27.1	40.0	12.9	100.0	V	90.0
38.439000	26.6	40.0	13.4	100.0	V	37.0
41.931000	24.8	40.0	15.2	100.0	V	153.0
270.366000	39.3	46.0	6.7	100.0	H	101.0
916.871000	34.8	46.0	11.2	100.0	V	-1.0

Charging Mode/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)
17031.000	38.82	-27.0	41.0	24.83	54.0	15.2	V
16948.500	38.82	-27.1	41.3	24.70	54.0	15.2	V
17509.500	38.82	-26.7	40.8	24.76	54.0	15.2	V
17118.500	38.82	-26.9	40.9	24.84	54.0	15.2	V
16815.000	38.81	-27.3	41.3	24.77	54.0	15.2	V
16931.000	38.81	-27.1	41.3	24.65	54.0	15.2	V

Charging Mode/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)
16002.500	53.1	-27.8	40.3	40.57	74.0	20.9	V
16791.000	51.6	-27.3	41.3	37.58	74.0	22.4	V
17126.000	51.5	-26.9	40.9	37.51	74.0	22.5	V
16623.500	51.4	-27.6	41.1	37.90	74.0	22.6	H
16930.000	51.4	-27.2	41.3	37.19	74.0	22.6	V
17912.500	51.3	-26.2	40.2	37.28	74.0	22.7	H

Measurement results for Set.1, Rear Camera + GSM 850MHz idle:

RE FCC_30MHz-1GHz_10m_Direct_testing_FP5b

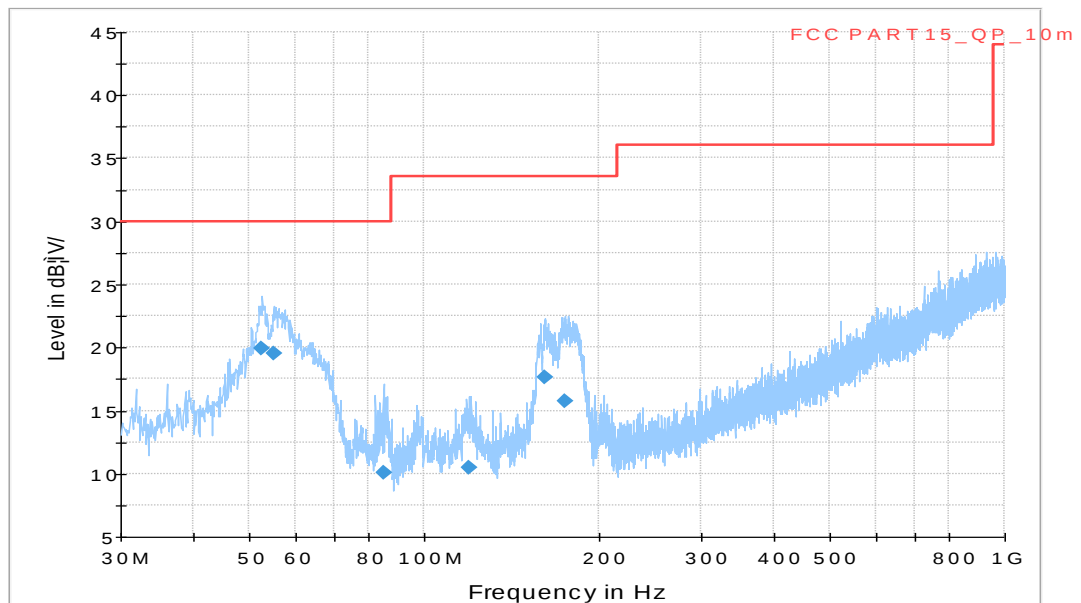


Fig A.1 Radiated Emission from 30MHz to 1GHz

Full Spectrum

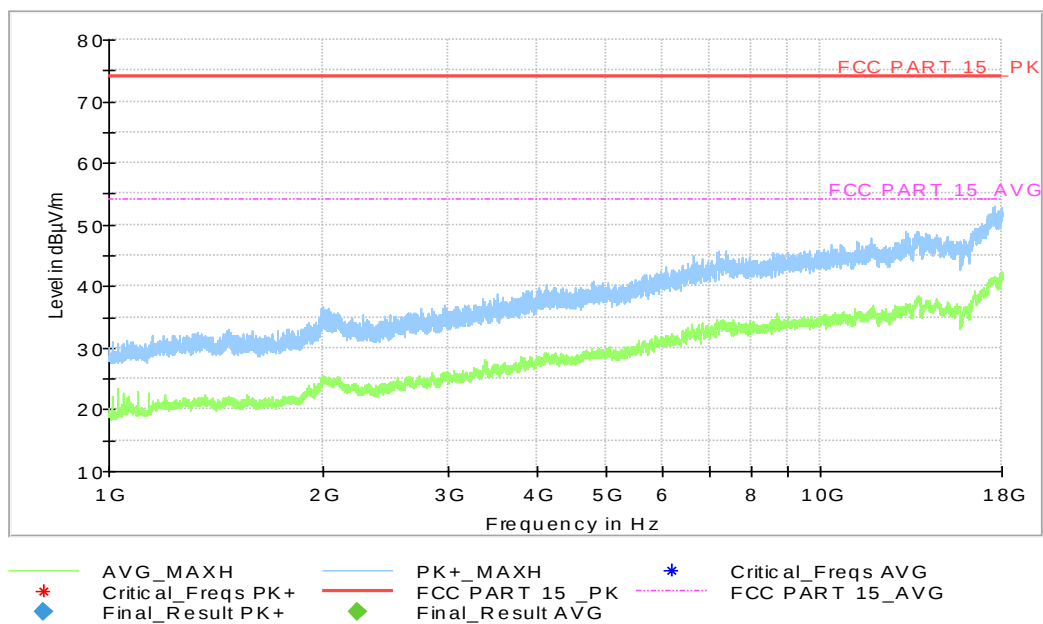


Fig A.2 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.2, Rear Camera + WCDMA 850MHz idle:

RE FCC_30MHz-1GHz_10m_Direct_testing_FP5b

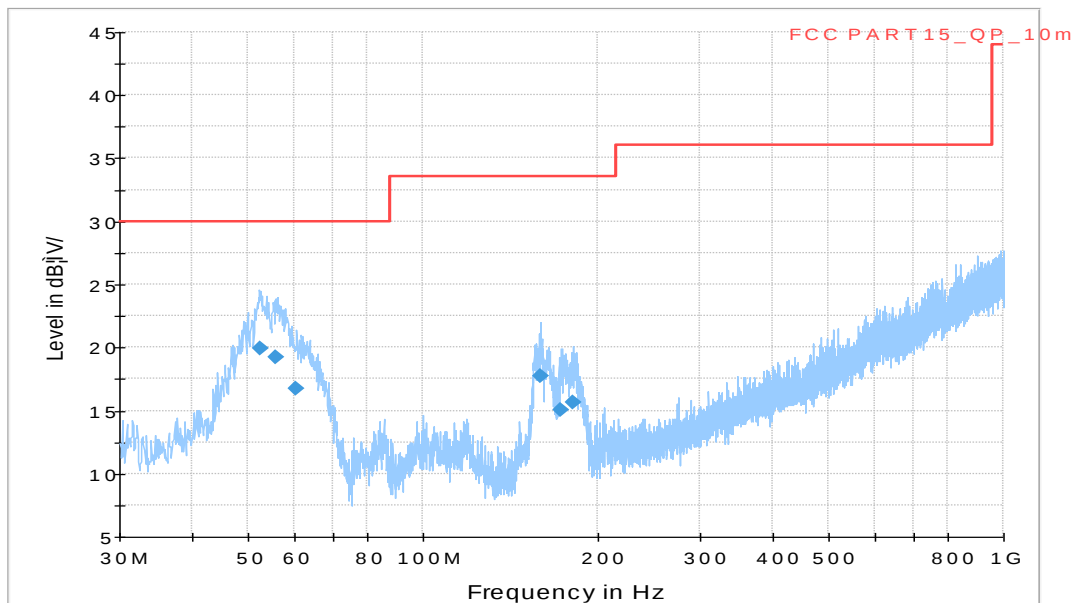


Fig A.3 Radiated Emission from 30MHz to 1GHz

Full Spectrum

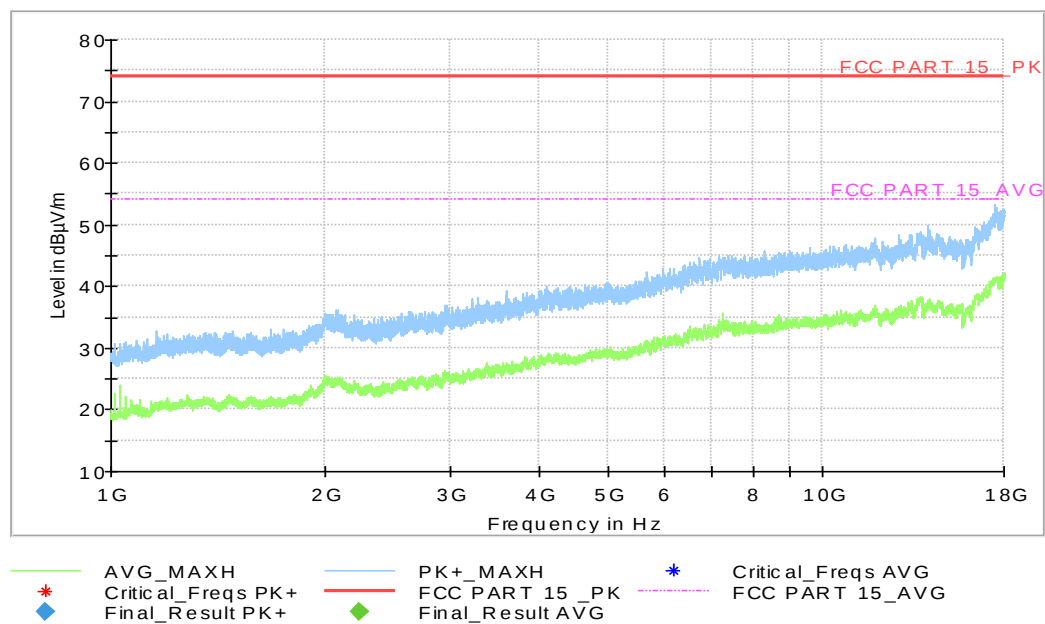


Fig A.4 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.3, Front camera+ LTE band 5 idle:

RE FCC_30MHz-1GHz_10m_Direct_testing_FP5b

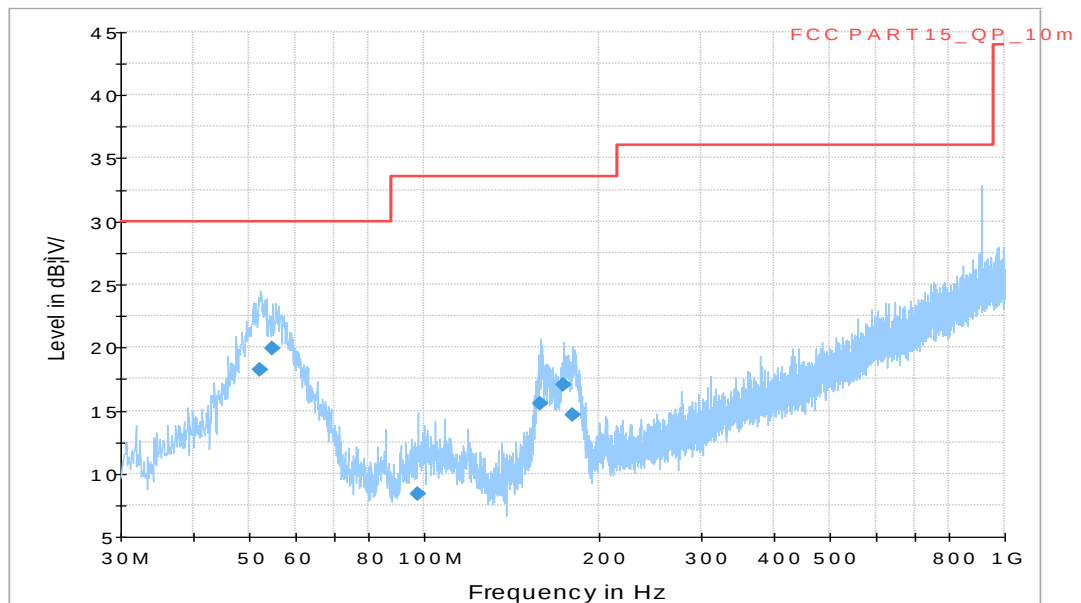


Fig A.5 Radiated Emission from 30MHz to 1GHz

Full Spectrum

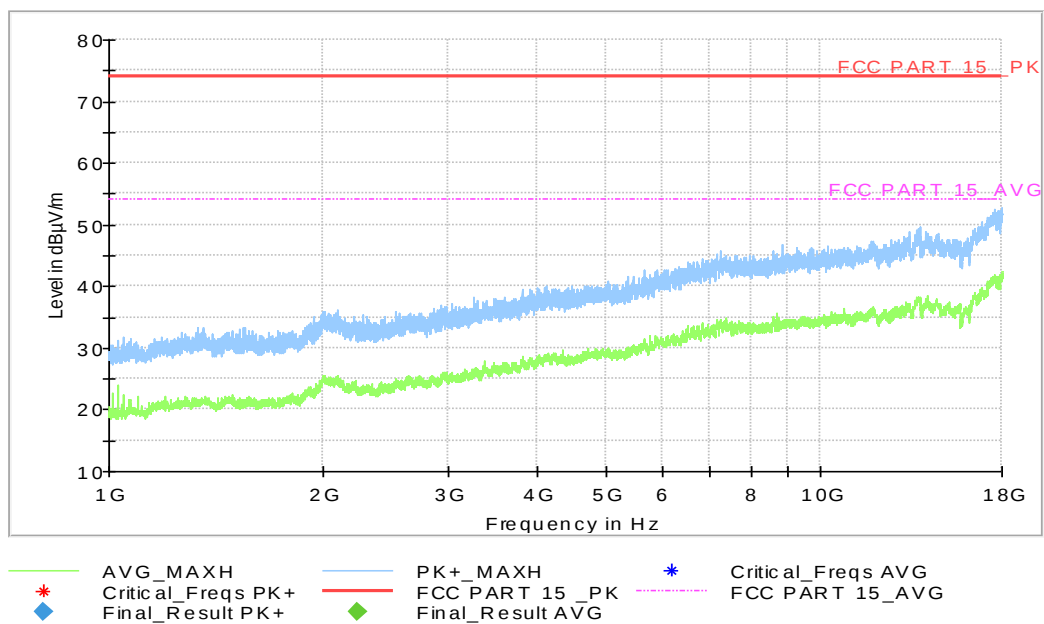


Fig A.6 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.8, USB TO PC:

RE FCC_30MHz-1GHz_10m_Direct_testing_FP5b

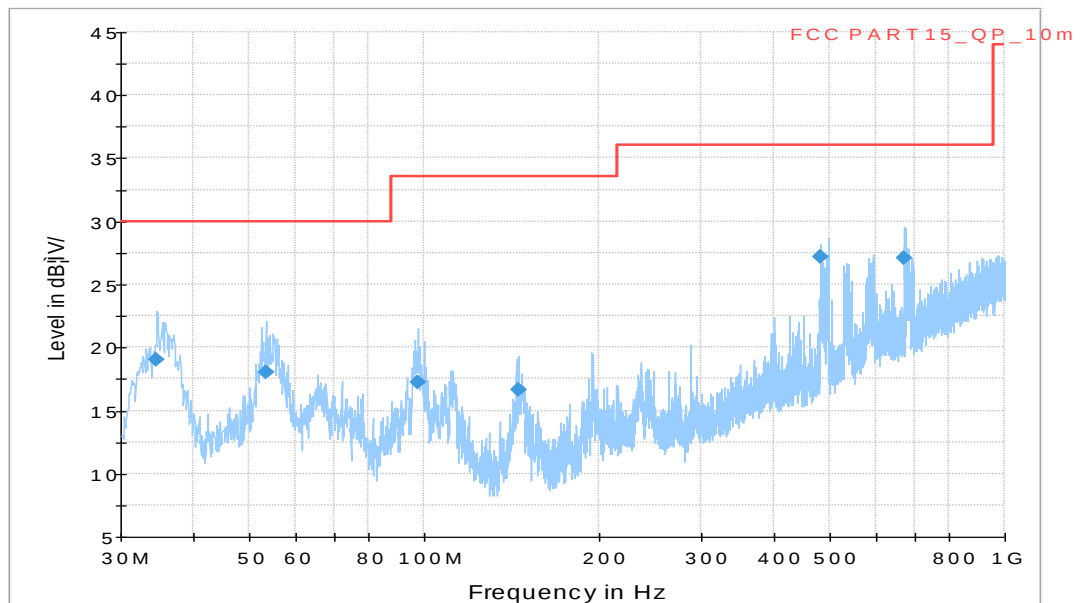


Fig A.7 Radiated Emission from 30MHz to 1GHz

Full Spectrum

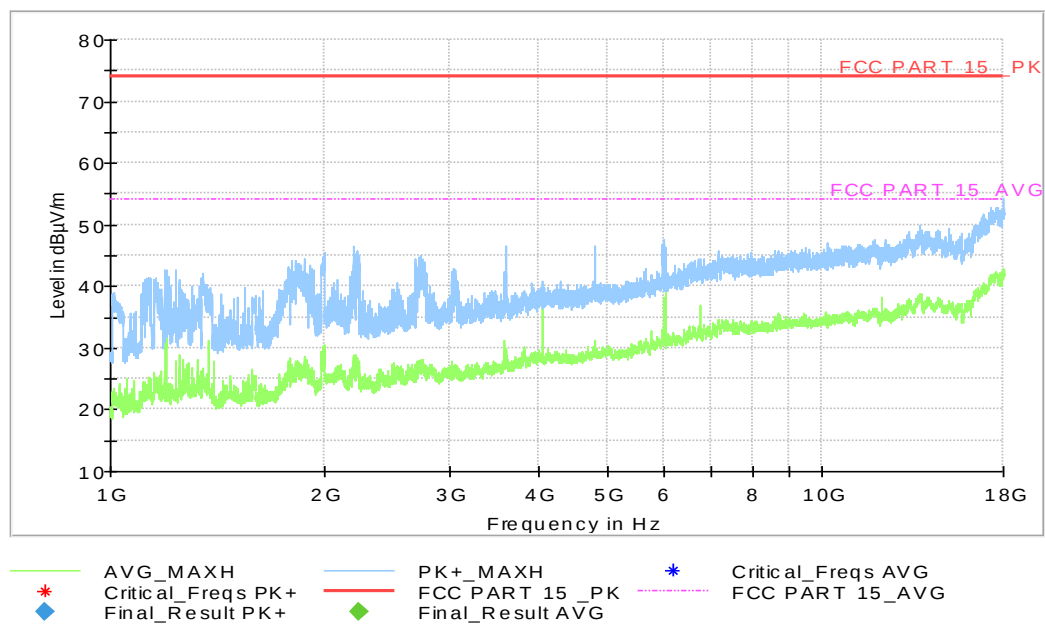


Fig A.8 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.9, USB TO PC:

RE FCC_30MHz-1GHz_10m_Direct_testing_FP5b

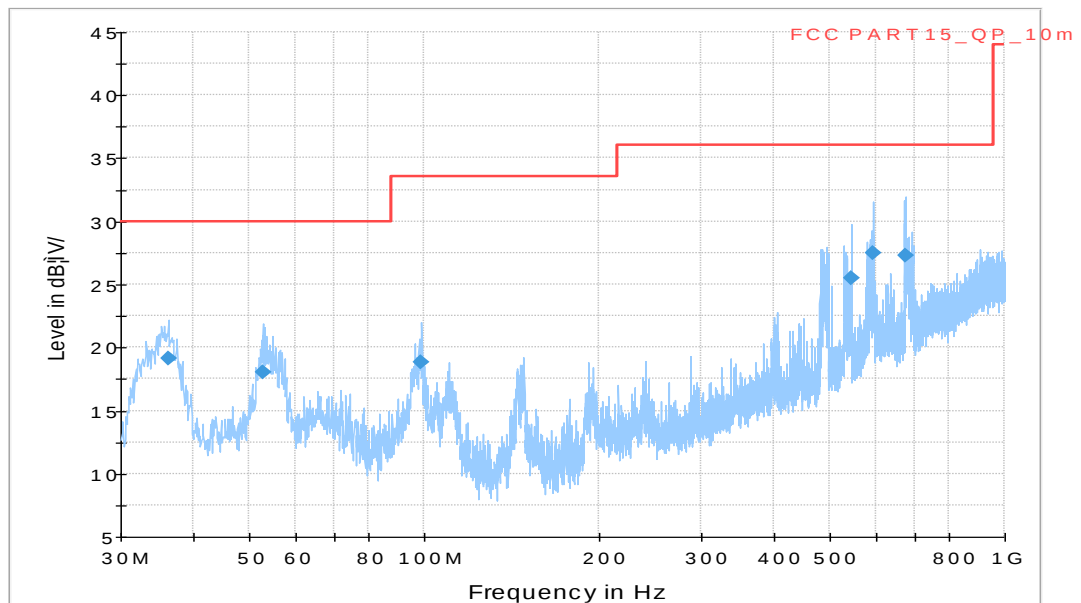


Fig A.9 Radiated Emission from 30MHz to 1GHz

Full Spectrum

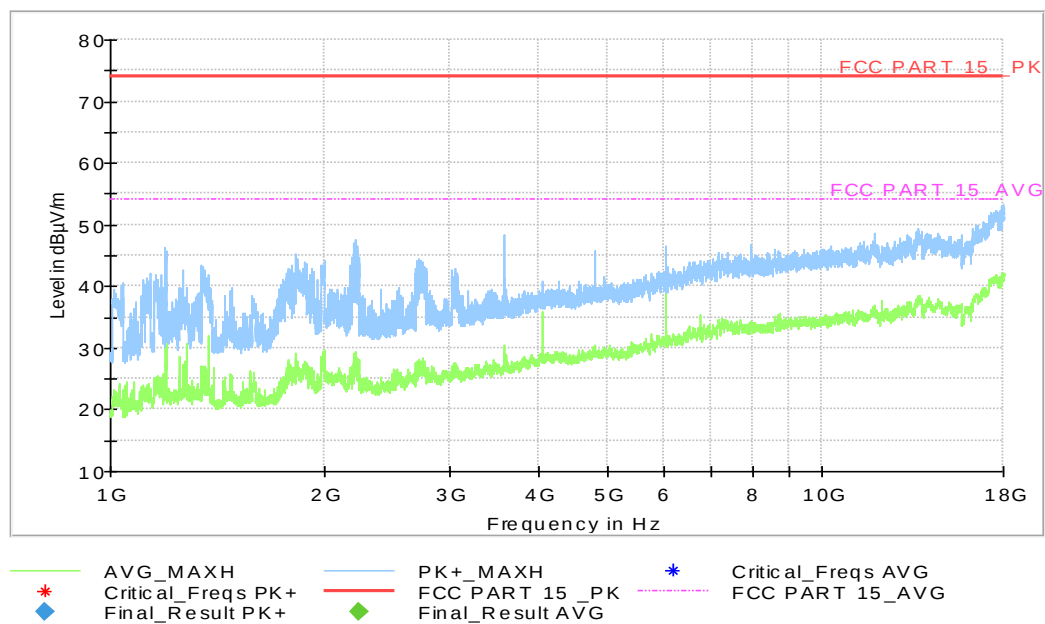


Fig A.10 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.10, USB TO PC:

RE FCC_30MHz-1GHz_10m_Direct_testing_FP5b

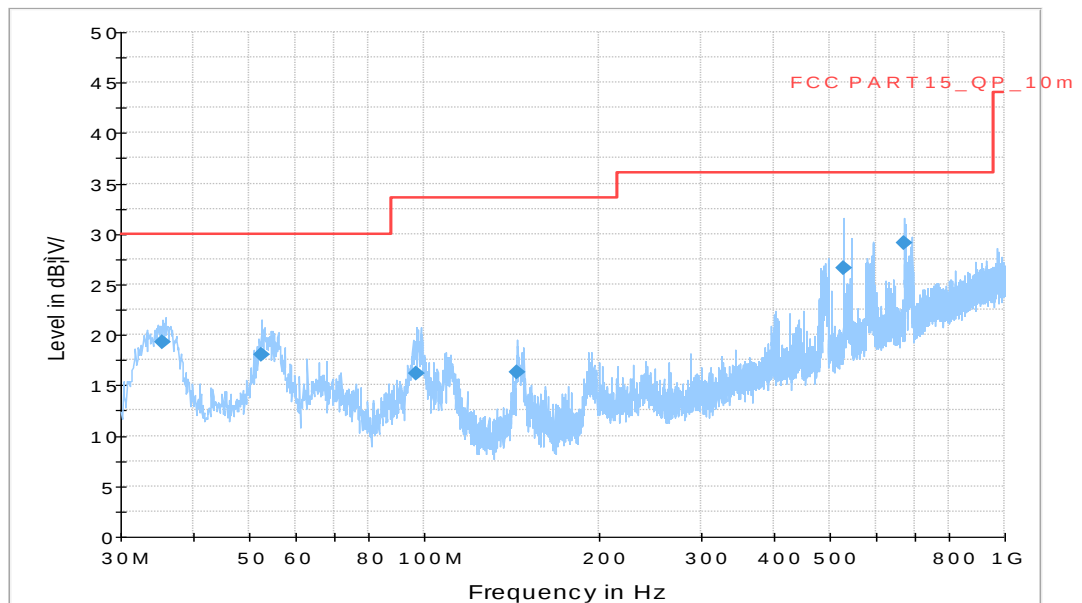


Fig A.11 Radiated Emission from 30MHz to 1GHz

Full Spectrum

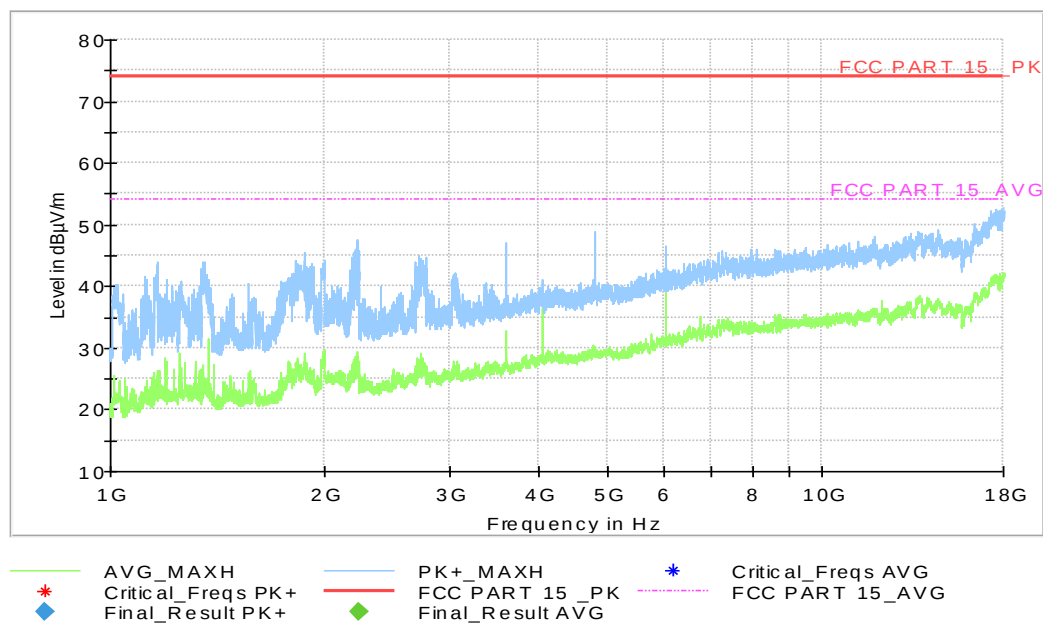


Fig A.12 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.11, USB TO PC:

RE FCC_30MHz-1GHz_10m_Direct_testing_FP5b

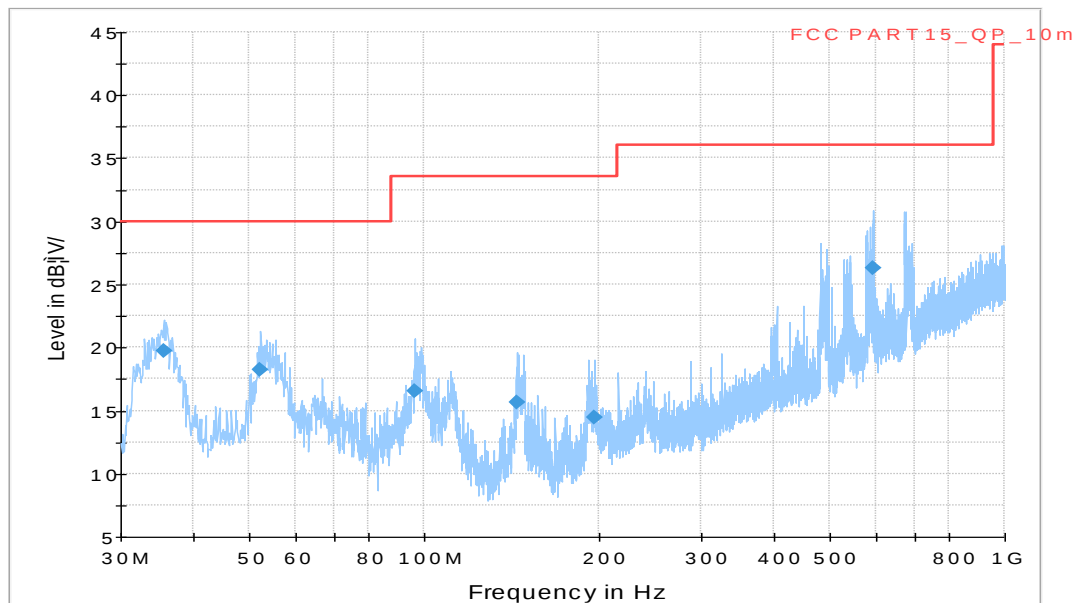


Fig A.13 Radiated Emission from 30MHz to 1GHz

Full Spectrum

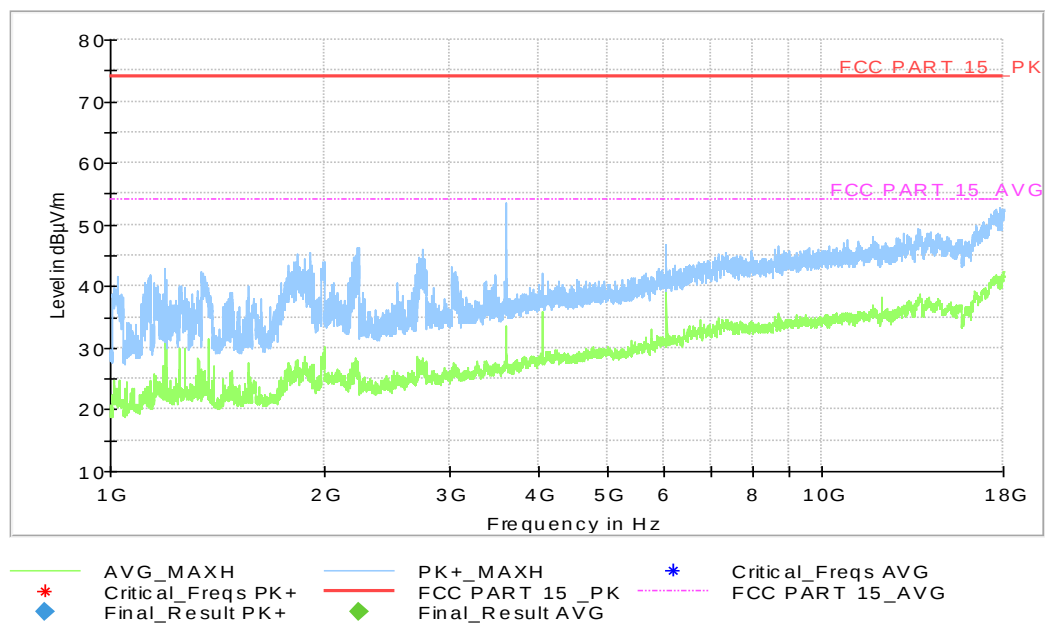


Fig A.14 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.12, USB TO PC:

RE FCC_30MHz-1GHz_10m_Direct_testing_FP5b

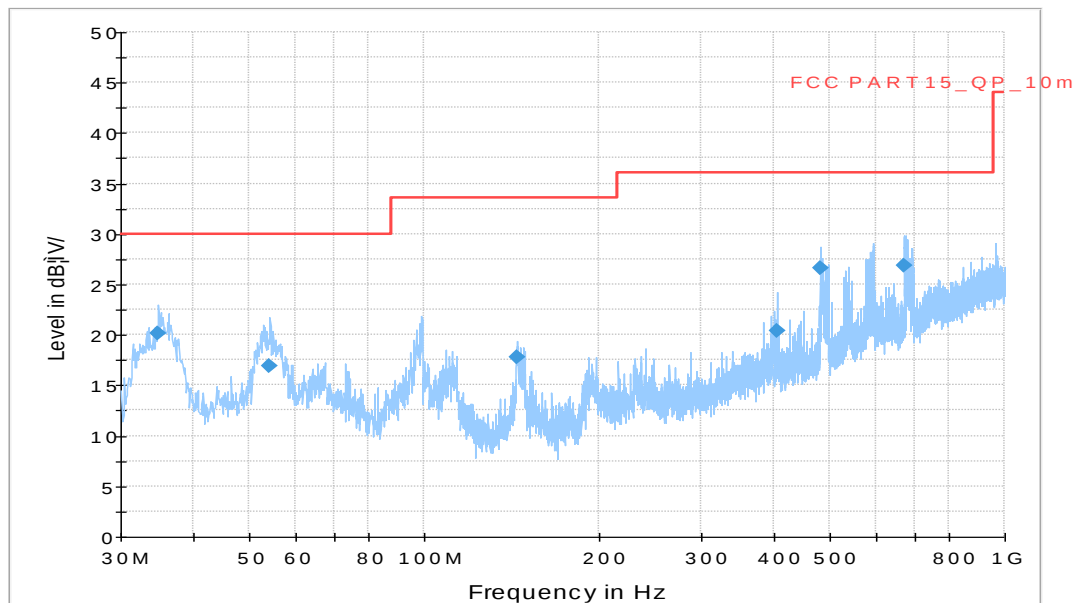


Fig A.15 Radiated Emission from 30MHz to 1GHz

Full Spectrum

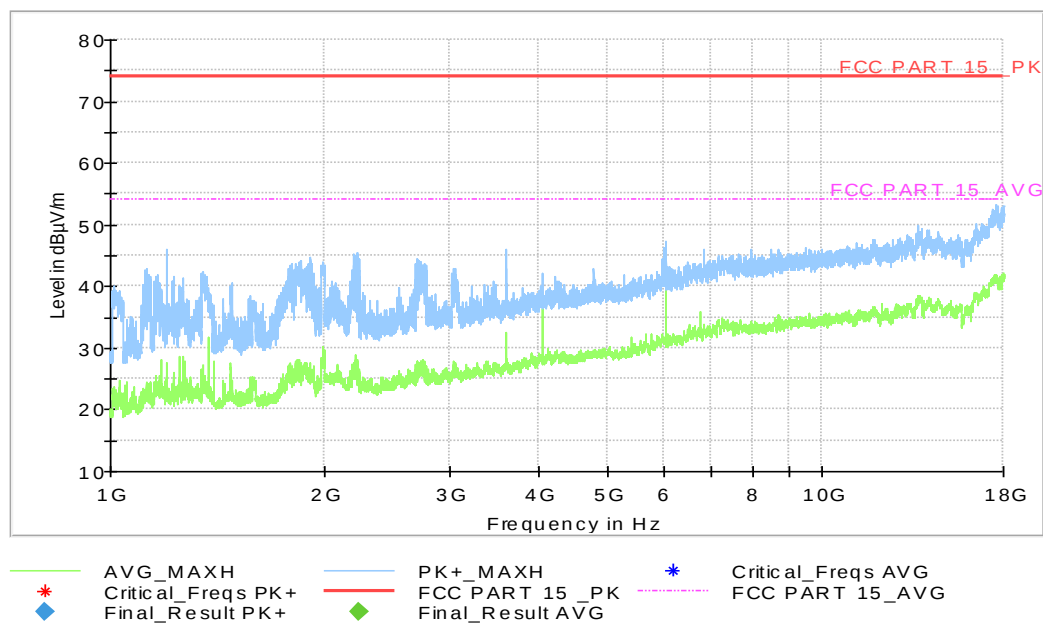


Fig A.16 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.13, black screen:

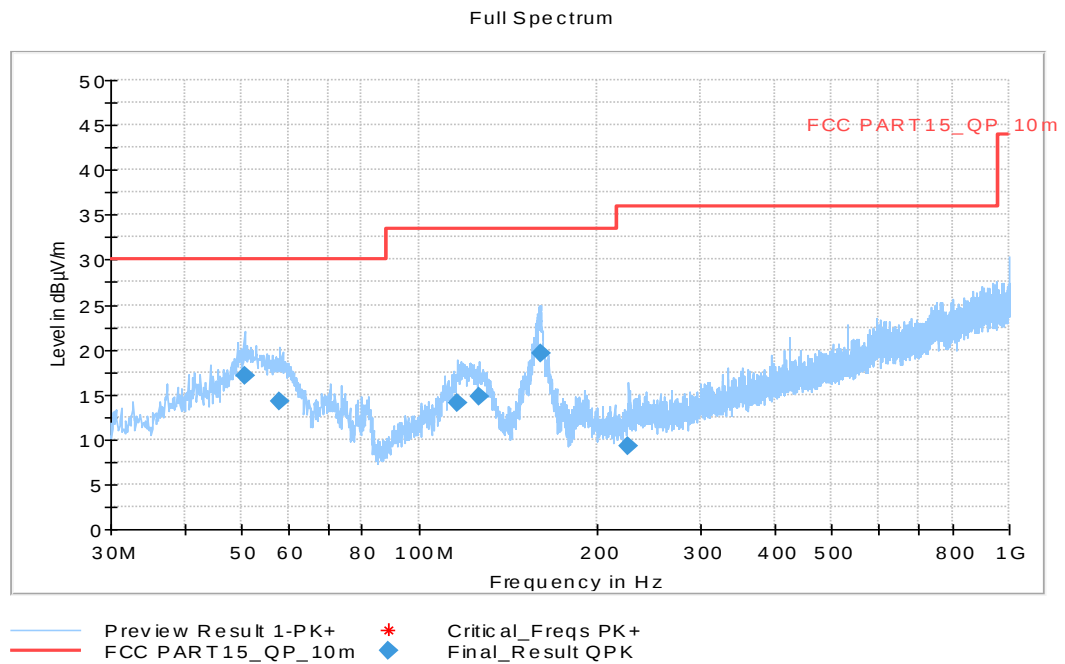


Fig A.17 Radiated Emission from 30MHz to 1GHz

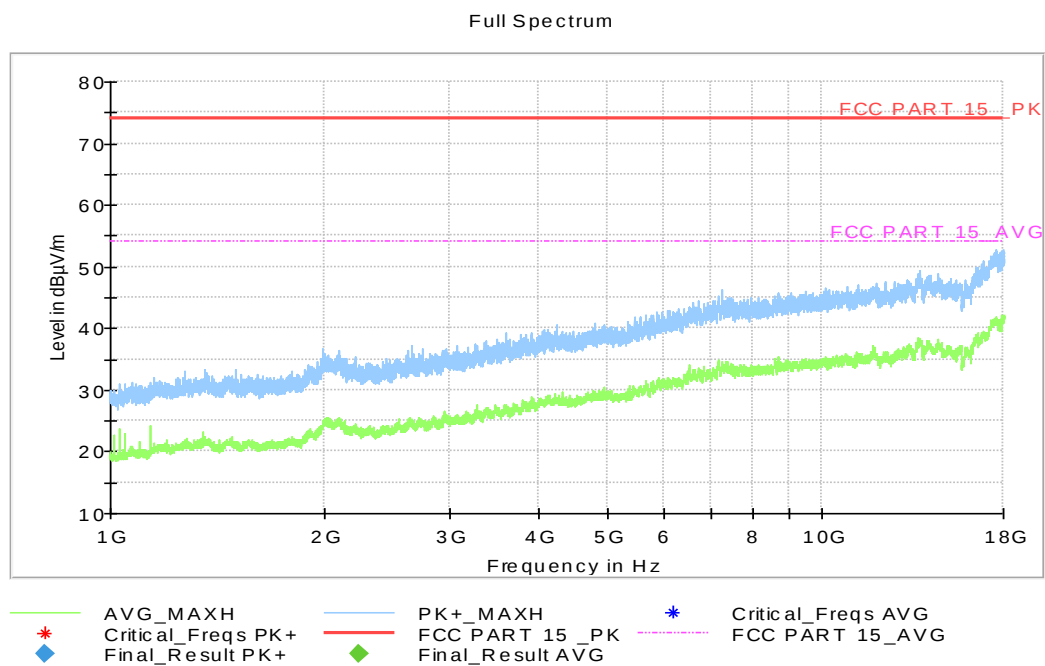


Fig A.18 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.20, USB TO PC:

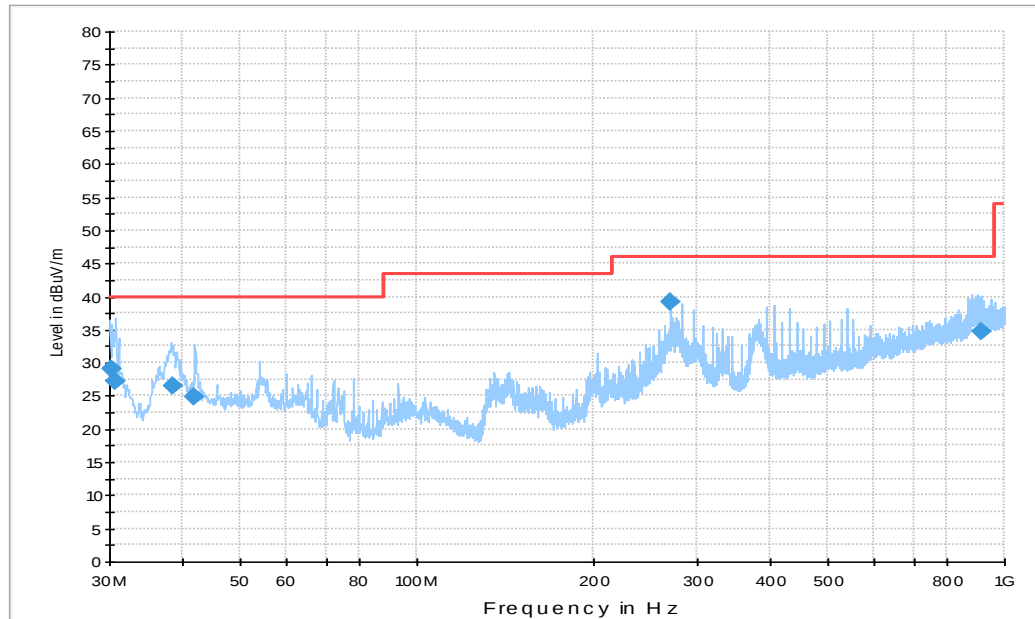


Fig A.19 Radiated Emission from 30MHz to 1GHz

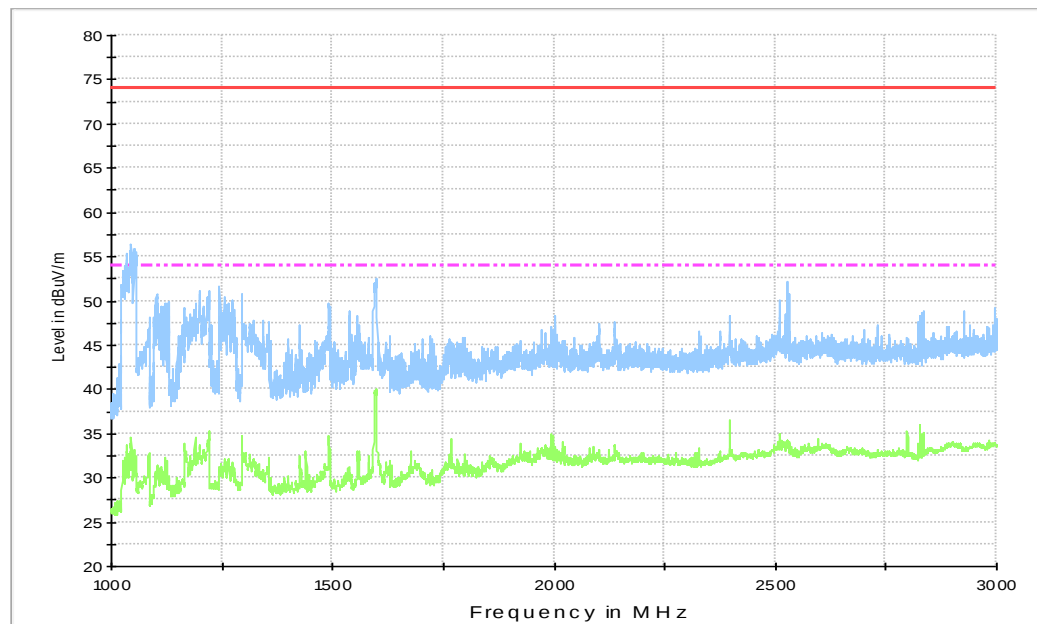


Fig A.20 Radiated Emission from 1GHz to 3GHz

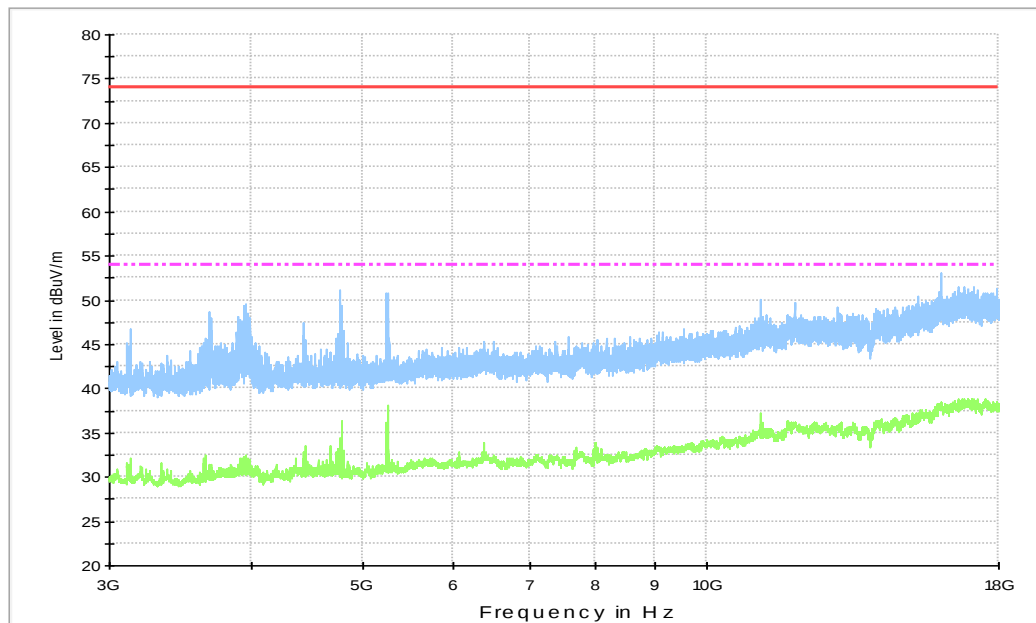


Fig A.21 Radiated Emission from 3GHz to 18GHz

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 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: $U = 3.10 \text{ dB}$, $k=2$.

Set.1, Real Camera + WCDMA 850MHz idle:

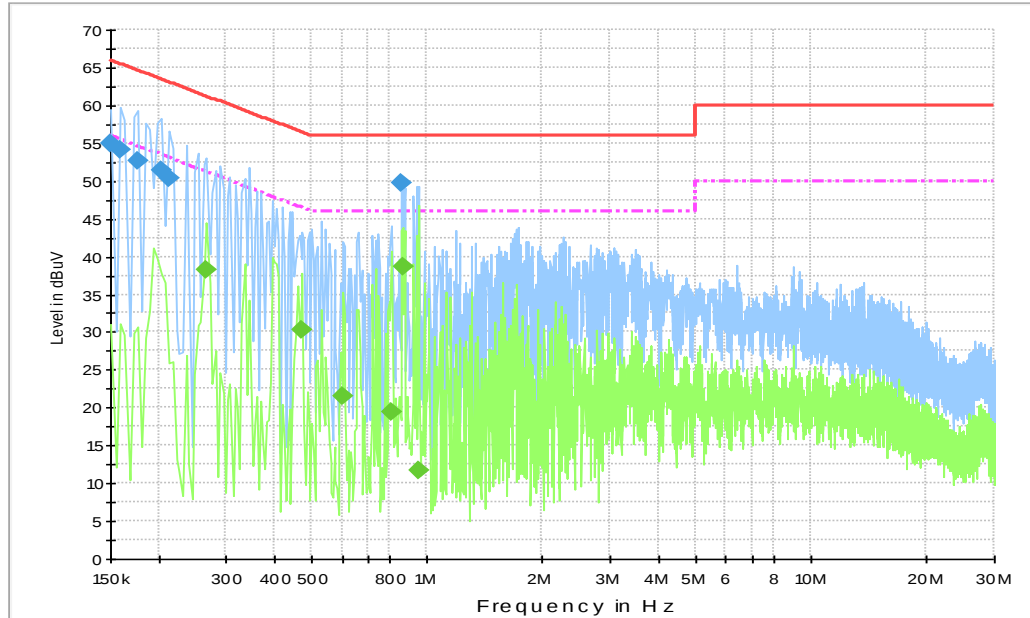


Fig A.22 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	55.0	3000.0	9.000	On	L1	20.0	11.0	66.0
0.159000	54.1	3000.0	9.000	On	L1	19.9	11.4	65.5
0.177000	52.6	3000.0	9.000	On	L1	19.8	12.0	64.6
0.204000	51.4	3000.0	9.000	On	L1	19.7	12.0	63.4
0.213000	50.3	3000.0	9.000	On	L1	19.7	12.8	63.1
0.861000	49.7	3000.0	9.000	On	L1	19.7	6.3	56.0

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.267000	38.2	3000.0	9.000	On	L1	19.8	13.0	51.2
0.474000	30.3	3000.0	9.000	On	L1	19.8	16.2	46.4
0.604500	21.5	3000.0	9.000	On	N	19.7	24.5	46.0
0.807000	19.3	3000.0	9.000	On	N	19.7	26.7	46.0
0.865500	38.6	3000.0	9.000	On	L1	19.7	7.4	46.0
0.951000	11.8	3000.0	9.000	On	N	19.7	34.2	46.0

Set.2, Real Camera + WCDMA 850MHz idle:

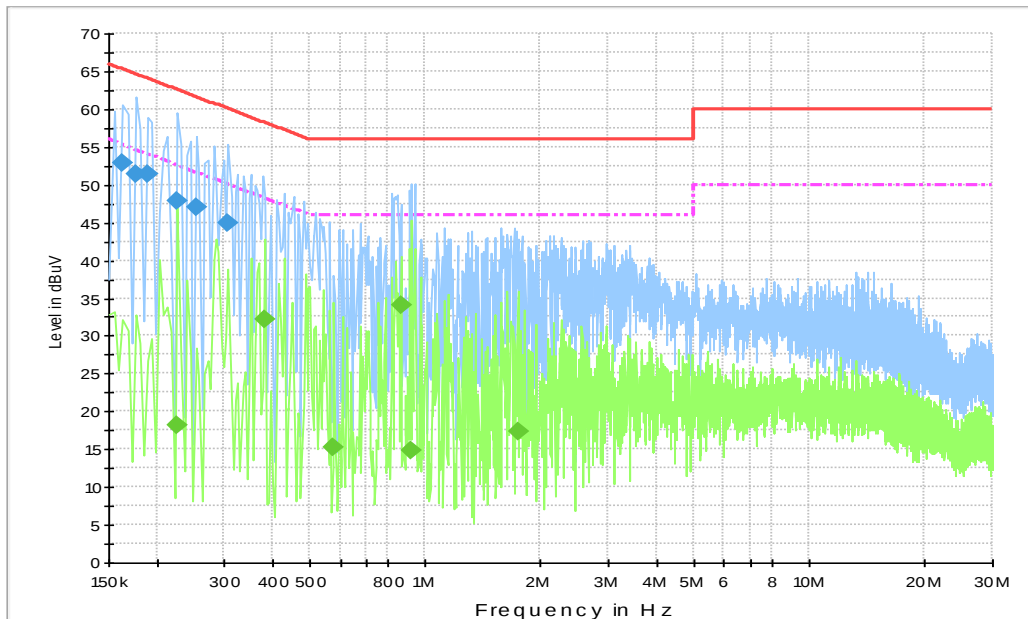


Fig A.23 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.163500	52.9	3000.0	9.000	On	L1	19.9	12.4	65.3
0.177000	51.4	3000.0	9.000	On	N	19.8	13.2	64.6
0.190500	51.3	3000.0	9.000	On	L1	19.8	12.7	64.0
0.226500	47.9	3000.0	9.000	On	N	19.8	14.6	62.6
0.253500	47.0	3000.0	9.000	On	N	19.8	14.6	61.6
0.307500	45.0	3000.0	9.000	On	N	19.8	15.1	60.0

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.226500	18.1	3000.0	9.000	On	N	19.8	34.5	52.6
0.384000	32.2	3000.0	9.000	On	L1	19.8	16.0	48.2
0.577500	15.2	3000.0	9.000	On	L1	19.8	30.8	46.0
0.865500	34.0	3000.0	9.000	On	L1	19.7	12.0	46.0
0.924000	14.8	3000.0	9.000	On	N	19.7	31.2	46.0
1.743000	17.4	3000.0	9.000	On	N	19.6	28.6	46.0

Set.3, Front camera+ LTE band 5 idle:

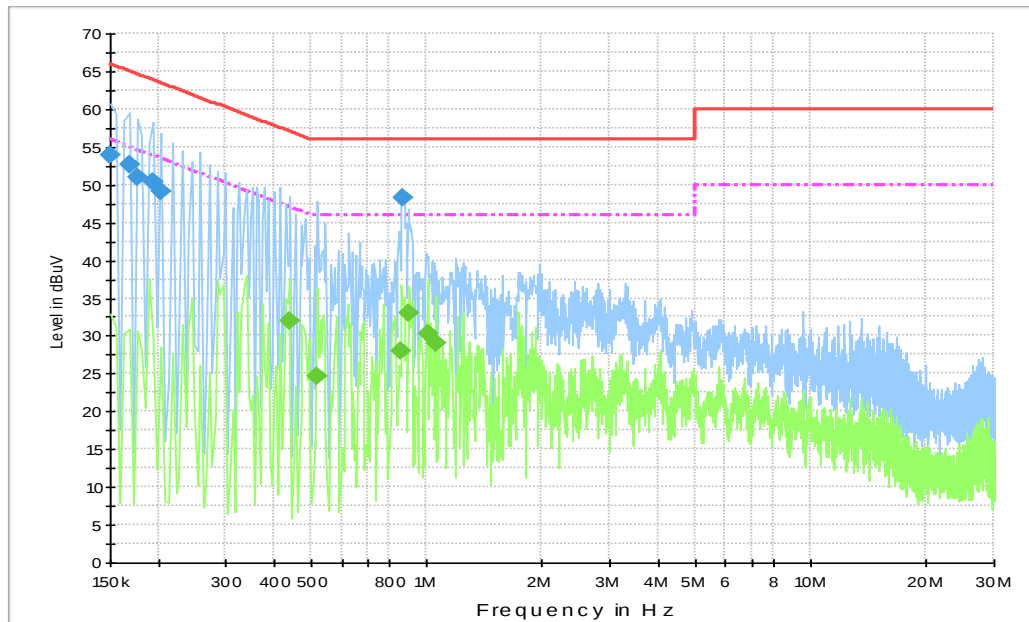


Fig A.24 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	53.9	3000.0	9.000	On	L1	20.0	12.1	66.0
0.168000	52.7	3000.0	9.000	On	L1	19.9	12.4	65.1
0.177000	51.0	3000.0	9.000	On	L1	19.8	13.6	64.6
0.195000	50.4	3000.0	9.000	On	L1	19.7	13.5	63.8
0.204000	49.0	3000.0	9.000	On	L1	19.7	14.4	63.4
0.870000	48.2	3000.0	9.000	On	L1	19.7	7.8	56.0

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.438000	31.9	3000.0	9.000	On	L1	19.8	15.2	47.1
0.519000	24.7	3000.0	9.000	On	L1	19.8	21.3	46.0
0.861000	28.0	3000.0	9.000	On	N	19.7	18.0	46.0
0.901500	33.0	3000.0	9.000	On	L1	19.7	13.0	46.0
1.005000	30.4	3000.0	9.000	On	L1	19.7	15.6	46.0
1.054500	29.1	3000.0	9.000	On	L1	19.7	16.9	46.0

Set.8, USB TO PC:

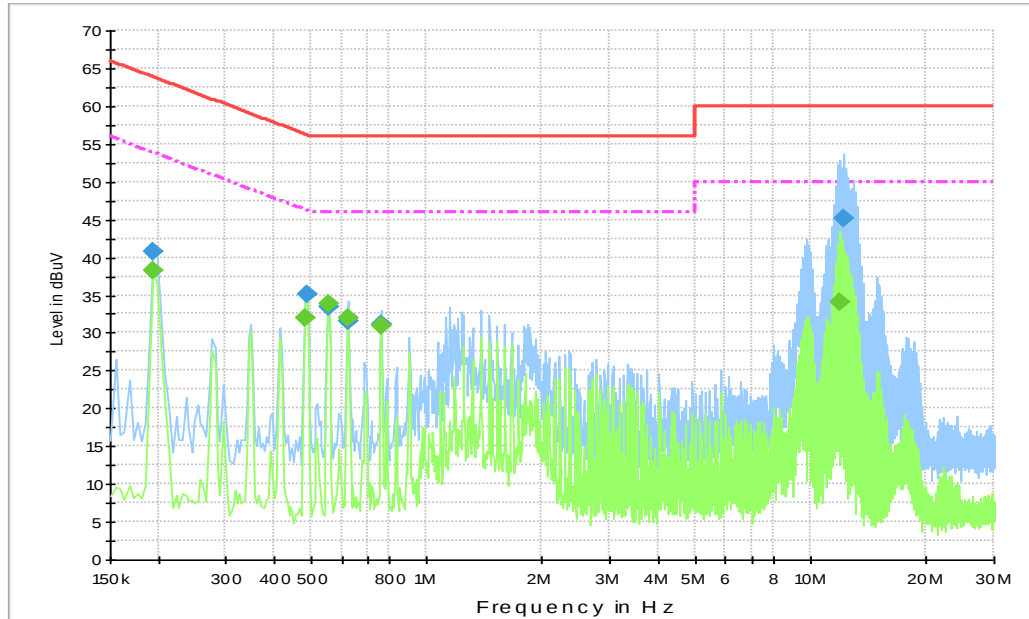


Fig A.25 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.195000	40.8	3000.0	9.000	On	N	19.7	23.0	63.8
0.487500	35.2	3000.0	9.000	On	L1	19.8	21.0	56.2
0.555000	33.5	3000.0	9.000	On	N	19.8	22.5	56.0
0.622500	31.5	3000.0	9.000	On	N	19.7	24.5	56.0
0.762000	31.1	3000.0	9.000	On	L1	19.7	24.9	56.0
12.174000	45.1	3000.0	9.000	On	N	19.8	14.9	60.0

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.195000	38.1	3000.0	9.000	On	L1	19.7	15.7	53.8
0.483000	32.0	3000.0	9.000	On	L1	19.8	14.3	46.3
0.555000	33.8	3000.0	9.000	On	N	19.8	12.2	46.0
0.622500	31.9	3000.0	9.000	On	L1	19.7	14.1	46.0
0.762000	30.9	3000.0	9.000	On	N	19.7	15.1	46.0
11.890500	34.0	3000.0	9.000	On	N	19.8	16.0	50.0

Set.9, USB TO PC:

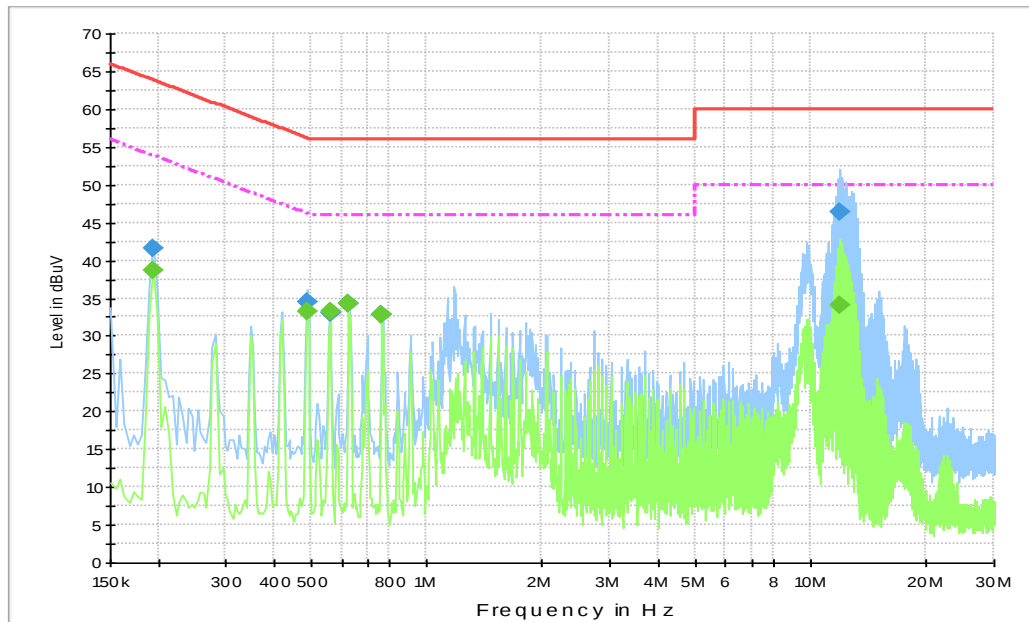


Fig A.26 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.195000	41.5	3000.0	9.000	On	L1	19.7	22.3	63.8
0.487500	34.5	3000.0	9.000	On	N	19.8	21.7	56.2
0.559500	33.0	3000.0	9.000	On	N	19.8	23.0	56.0
0.627000	34.2	3000.0	9.000	On	N	19.7	21.8	56.0
0.766500	32.9	3000.0	9.000	On	L1	19.7	23.1	56.0
11.922000	46.3	3000.0	9.000	On	L1	19.8	13.7	60.0

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.195000	38.7	3000.0	9.000	On	N	19.7	15.1	53.8
0.487500	33.2	3000.0	9.000	On	N	19.8	13.0	46.2
0.559500	33.2	3000.0	9.000	On	N	19.8	12.8	46.0
0.627000	34.3	3000.0	9.000	On	N	19.7	11.7	46.0
0.766500	32.9	3000.0	9.000	On	N	19.7	13.1	46.0
11.908500	34.1	3000.0	9.000	On	L1	19.8	15.9	50.0

Set.10, USB TO PC:

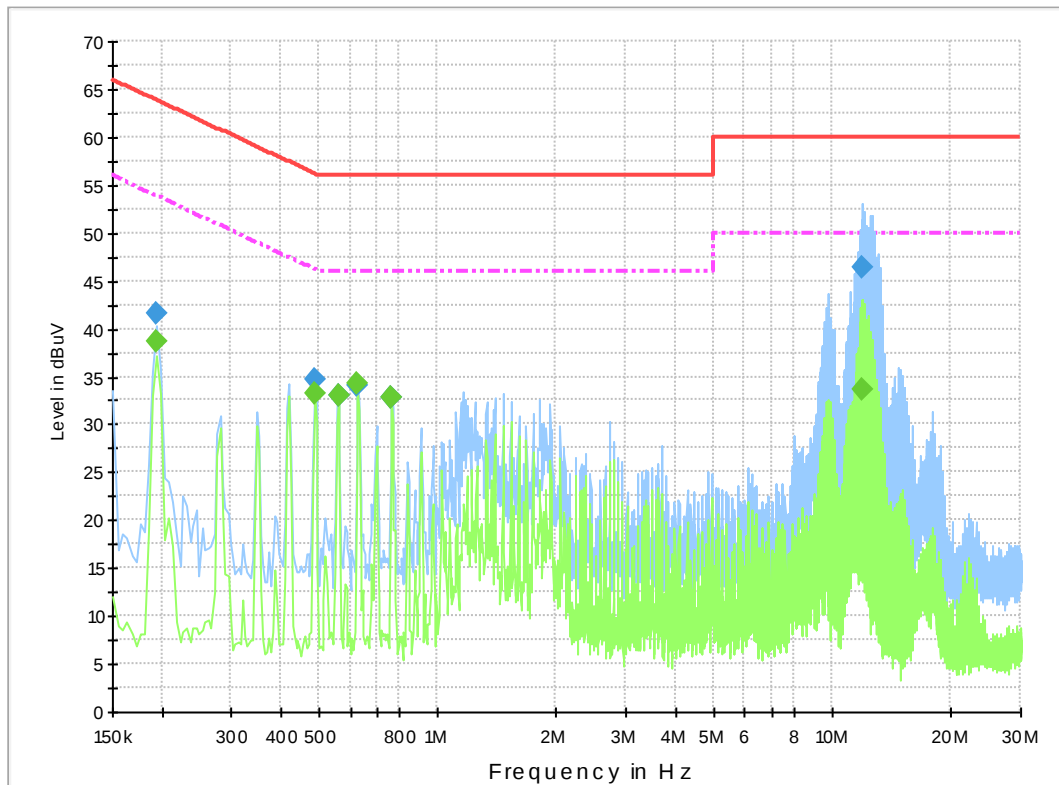


Fig A.27 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.195000	41.5	3000.0	9.000	On	L1	19.7	22.3	63.8
0.487500	34.6	3000.0	9.000	On	L1	19.8	21.6	56.2
0.559500	32.9	3000.0	9.000	On	N	19.8	23.1	56.0
0.627000	34.1	3000.0	9.000	On	L1	19.7	21.9	56.0
0.766500	32.8	3000.0	9.000	On	L1	19.7	23.2	56.0
11.859000	46.4	3000.0	9.000	On	L1	19.8	13.6	60.0

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.195000	38.7	3000.0	9.000	On	L1	19.7	15.1	53.8
0.487500	33.2	3000.0	9.000	On	N	19.8	13.0	46.2
0.559500	33.1	3000.0	9.000	On	L1	19.8	12.9	46.0
0.627000	34.3	3000.0	9.000	On	L1	19.7	11.7	46.0
0.766500	32.9	3000.0	9.000	On	L1	19.7	13.1	46.0
11.859000	33.7	3000.0	9.000	On	N	19.8	16.3	50.0

Set.11, USB TO PC:

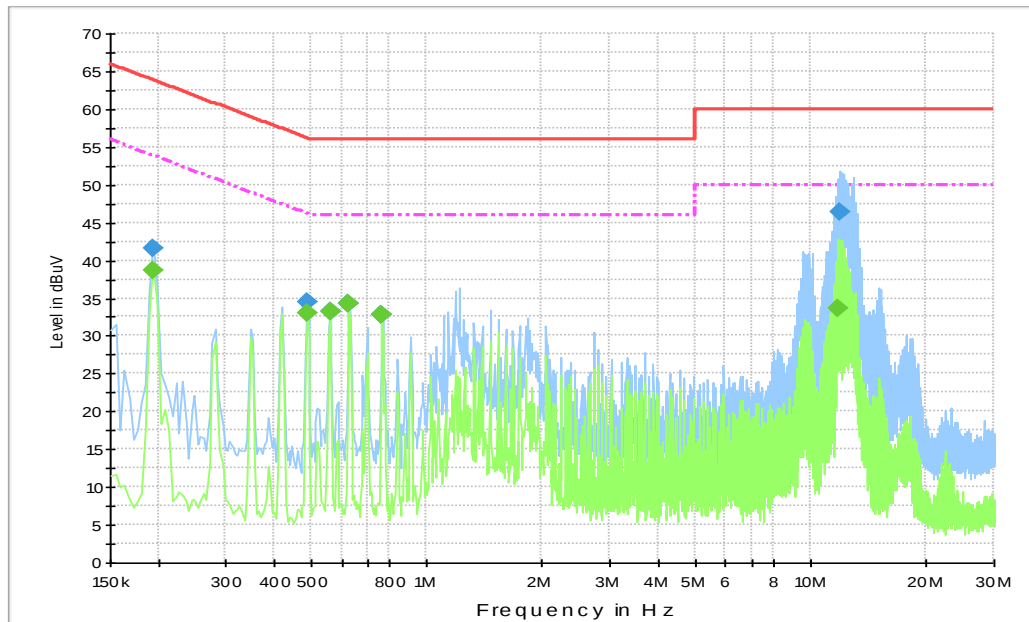


Fig A.28 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.195000	41.5	3000.0	9.000	On	L1	19.7	22.3	63.8
0.487500	34.5	3000.0	9.000	On	L1	19.8	21.7	56.2
0.559500	33.1	3000.0	9.000	On	N	19.8	22.9	56.0
0.627000	34.4	3000.0	9.000	On	N	19.7	21.6	56.0
0.766500	32.8	3000.0	9.000	On	L1	19.7	23.2	56.0
11.958000	46.4	3000.0	9.000	On	N	19.8	13.6	60.0

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.195000	38.7	3000.0	9.000	On	N	19.7	15.1	53.8
0.487500	33.1	3000.0	9.000	On	N	19.8	13.1	46.2
0.559500	33.2	3000.0	9.000	On	N	19.8	12.8	46.0
0.627000	34.3	3000.0	9.000	On	L1	19.7	11.7	46.0
0.766500	32.9	3000.0	9.000	On	N	19.7	13.1	46.0
11.827500	33.6	3000.0	9.000	On	L1	19.8	16.4	50.0

Set.12, USB TO PC:

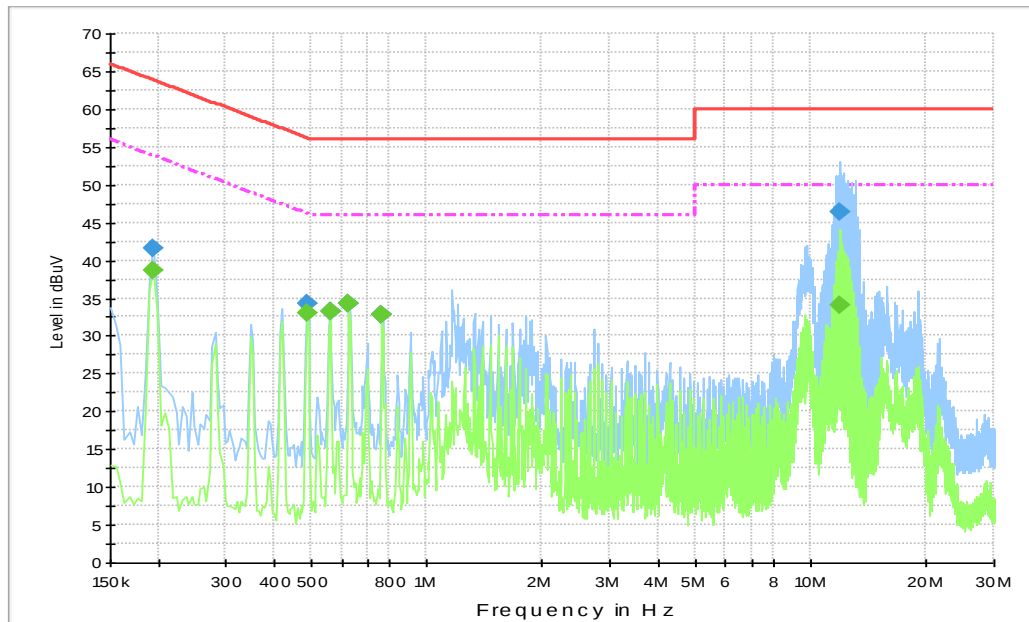


Fig A.29 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.195000	41.5	3000.0	9.000	On	L1	19.7	22.3	63.8
0.487500	34.2	3000.0	9.000	On	N	19.8	22.0	56.2
0.559500	33.2	3000.0	9.000	On	N	19.8	22.8	56.0
0.627000	34.2	3000.0	9.000	On	L1	19.7	21.8	56.0
0.766500	32.7	3000.0	9.000	On	L1	19.7	23.3	56.0
11.908500	46.4	3000.0	9.000	On	L1	19.8	13.6	60.0

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.195000	38.7	3000.0	9.000	On	N	19.7	15.1	53.8
0.487500	32.9	3000.0	9.000	On	N	19.8	13.3	46.2
0.559500	33.3	3000.0	9.000	On	N	19.8	12.7	46.0
0.627000	34.2	3000.0	9.000	On	N	19.7	11.8	46.0
0.766500	32.8	3000.0	9.000	On	L1	19.7	13.2	46.0
11.908500	34.0	3000.0	9.000	On	L1	19.8	16.0	50.0

Set.13, black screen:

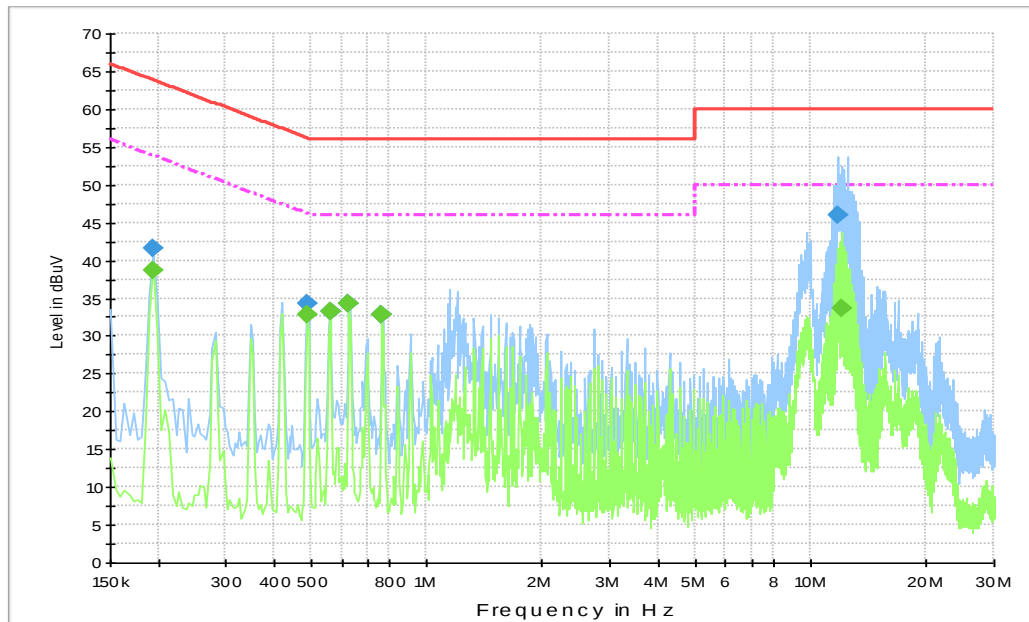


Fig A.30 Conducted Emission

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.195000	41.5	3000.0	9.000	On	L1	19.7	22.3	63.8
0.487500	34.2	3000.0	9.000	On	N	19.8	22.0	56.2
0.559500	33.1	3000.0	9.000	On	L1	19.8	22.9	56.0
0.627000	34.2	3000.0	9.000	On	N	19.7	21.8	56.0
0.766500	32.7	3000.0	9.000	On	N	19.7	23.3	56.0
11.832000	46.1	3000.0	9.000	On	N	19.8	13.9	60.0

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.195000	38.7	3000.0	9.000	On	L1	19.7	15.1	53.8
0.487500	32.9	3000.0	9.000	On	N	19.8	13.3	46.2
0.559500	33.3	3000.0	9.000	On	N	19.8	12.7	46.0
0.627000	34.2	3000.0	9.000	On	N	19.7	11.8	46.0
0.766500	32.7	3000.0	9.000	On	L1	19.7	13.3	46.0
11.985000	33.6	3000.0	9.000	On	N	19.8	16.4	50.0

ANNEX B: PERSONS INVOLVED IN THIS TESTING

Test Item	Test operator
Conducted Emission	Yan Xiaorui
Radiated Emission	Li Pengfei & Yan Hanchen & Ding Zai & Sun Tianyuan

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