



FCC PART 15B TEST REPORT

No. I22Z60845-EMC01

for

HMD Global Oy

smart phone

Model name: TA-1481

FCC ID: 2AJOTTA-1481

with

Hardware Version: V1.0

Software Version: 00WW_0_043

Issued Date: 2022-08-01

Note:

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I22Z60845-EMC01	Rev.0	1 st edition	2022-07-12
I22Z60845-EMC01	Rev.1	2 nd edition	2022-08-01

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



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1. Test Laboratory

1.1. Testing Location

CTTL (BDA)

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

1.2. Testing Environment

Normal Temperature: 15-35°C

Relative Humidity: 20-75%

1.3. Project data

Testing Start Date: 2022-06-26

Testing End Date: 2022-07-11

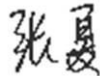
1.4. Signature



Wang Xue
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2. Client Information

2.1. Applicant Information

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2.2. Manufacturer Information

Company Name	HMD Global Oy
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3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	Smart Phone
Model Name	TA-1481
FCC ID:	2AJOTTA-1481

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
EUT1	351816950004287/	V1.0	00WW_0_043
	351816950029276		

*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	/	/
AE2	Charger1	AD-020E	/
AE3	Charger2	AD-020X	/
AE4	Charger3	AD-020U	/
AE5	Charger4	AD-020A	/
AE6	Charger5	AD-020B	/
AE7	Charger6	AD-020C	/
AE8	Charger7	AD-020R	/
AE9	USB Cable	/	/
AE10	Headset	/	/

AE1

Model	CN450
Manufacturer	Gaoyuan
Capacity	4800mAh
Nominal Voltage	3.87V

AE2

Model	AD-020E
Manufacturer	Aohai
Length of cable	/

AE3

Model	AD-020X
Manufacturer	Aohai
Length of cable	/

AE4

Model	AD-020U	/
Manufacturer	Aohai	/
Length of cable	/	/

AE5	
Model	AD-020A
Manufacturer	Aohai
Length of cable	/
AE6	
Model	AD-020B
Manufacturer	Aohai
Length of cable	/
AE7	
Model	AD-020C
Manufacturer	Aohai
Length of cable	/
AE8	
Model	AD-020R
Manufacturer	Aohai
Length of cable	/
AE9	
Model	CC-3A
Manufacturer	Saibao
Length of cable	/
AE10	
Model	JWEP1241-ZN01H
Manufacturer	JUWEI
Length of cable	/

3.4. EUT set-ups

EUT set-up No.	Combination of EUT and AE	Remarks
Set.1	EUT1+ AE1+ AE3+AE9	Charger1 +REAR Camera+GSM 850 idle
Set.2	EUT1+ AE1+ AE3+AE9	Charger1+MP4+WCDMA 850 idle
Set.3	EUT1+ AE1+ AE3+AE9+AE10	USB+ front camera+LTE B5 idle+FM

Note:

Equipment Under Test (EUT) is a model of Smart Phone with integrated antenna.

It supports

GSM Band	GSM850/GSM900/DCS1800/PCS1900
UMTS Band	FDD Band I(W2100)/FDD Band II(W1900) /FDD Band IV(W1700)/FDD Band V(W850)/ FDD Band VIII(W900)
LTE Band	FDD1/2/3/4/5/7/8/12/13/17/20/28/66, TDD38/39/40/41
NR Band	n1/2/3/5/7/28/38/40/41/66/78

It has MP3, Camera, USB memory, Bluetooth 5.1, Wi-Fi (802.11a/b/g/n/ac, 802.11n supports 20MHz and 40MHz bandwidth, 802.11ac supports 20MHz ,40MHz and 80MHz bandwidth) ,GNSS functions.

The device contains receivers which tune and operate between 30MHz-960MHz in the following bands: GSM850, WCDMA850, LTE Band 5/12/13, NR n5/28. All licensed band receivers that tune in the range of 30MHz-960MHz are investigated. Only the worst-case emissions are



reported.

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 (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
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 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

Items	Test Name	Clause in FCC rules	Section in this report	Verdict	Test Location
1	Radiated Emission	15.109(a)	B.1	P	CTTL(BDA)
2	Conducted Emission	15.107(a)	B.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	2022-09-15	1 Year
2	LISN	ENV216	101459	R&S	2023-04-16	1 year
3	Universal Radio Communication Tester	CMW500	159408	R&S	2023-04-01	1 year
4	Test Receiver	ESCI 7	100766	R&S	2023-04-02	1 Year
5	EMI Antenna	VULB 9163	01176	SCHWARZBECK	2022-11-15	1 year
6	EMI Antenna	3117	00139065	ETS-Lindgren	2022-12-26	1 year
7	Signal Generator	SMF100A	101295	R&S	2022-12-23	1 year

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 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. 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.

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.

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 ($\mu\text{V}/\text{m}$)		
	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:

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

Where

G_A : Antenna factor of receive antenna

G_{PL} : Path Loss

P_{Mea} : Measurement result on receiver.

Measurement uncertainty (worst case): $U = 4.74 \text{ dB}$, $k=2$.

Measurement results for Set.1:

Charing 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)
17033.500	39.70	-27.0	41.6	25.09	54.0	14.3	V
17037.000	39.59	-27.0	41.6	24.99	54.0	14.4	V
17026.500	39.58	-27.0	41.7	24.97	54.0	14.4	H
17035.500	39.56	-27.0	41.6	24.95	54.0	14.4	H
17028.000	39.55	-27.0	41.7	24.94	54.0	14.4	V
17027.500	39.54	-27.0	41.7	24.93	54.0	14.5	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)
17111.500	52.2	-27.0	41.5	37.58	74.0	21.8	V
17918.500	52.1	-26.2	41.2	37.10	74.0	21.9	V
18000.000	52.1	-26.2	41.3	37.00	74.0	21.9	V
17992.000	52.1	-26.1	41.3	36.84	74.0	21.9	V
16351.500	51.9	-27.5	41.1	38.35	74.0	22.1	V
17077.000	51.8	-27.0	41.6	37.19	74.0	22.2	H

Measurement results for Set.2:
Charing 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)
17915.500	39.62	-26.2	41.2	24.58	54.0	14.4	H
17032.000	39.62	-27.0	41.6	25.01	54.0	14.4	V
17025.500	39.57	-27.0	41.7	24.96	54.0	14.4	H
17038.000	39.56	-27.0	41.6	24.95	54.0	14.4	V
17029.500	39.54	-27.0	41.7	24.93	54.0	14.5	V
17925.500	39.54	-26.2	41.2	24.47	54.0	14.5	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)
17874.500	52.2	-26.3	41.2	37.29	74.0	21.8	H
17809.500	52.0	-26.4	41.1	37.27	74.0	22.0	V
17012.500	52.0	-27.1	41.7	37.35	74.0	22.0	H
16320.500	51.9	-27.5	41.0	38.40	74.0	22.1	V
17030.000	51.8	-27.0	41.7	37.16	74.0	22.2	H
17177.000	51.7	-26.9	41.4	37.23	74.0	22.3	H

Measurement results for Set.3:
USB 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)
17921.500	39.61	-26.2	41.2	24.55	54.0	14.4	H
17041.000	39.60	-27.0	41.6	25.00	54.0	14.4	H
17032.500	39.59	-27.0	41.6	24.98	54.0	14.4	V
17039.500	39.59	-27.0	41.6	24.98	54.0	14.4	H
17033.000	39.58	-27.0	41.6	24.97	54.0	14.4	V
17919.000	39.57	-26.2	41.2	24.52	54.0	14.4	H

USB 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)
17194.000	52.7	-26.9	41.4	38.28	74.0	21.3	V
17936.500	52.4	-26.1	41.2	37.29	74.0	21.6	H
4790.000	52.1	-36.1	34.0	54.23	74.0	21.9	H
17445.500	51.9	-26.8	41.0	37.65	74.0	22.1	V
16914.500	51.8	-27.2	41.6	37.35	74.0	22.2	H
17032.000	51.8	-27.0	41.6	37.17	74.0	22.2	H

Measurement results for Set.1:

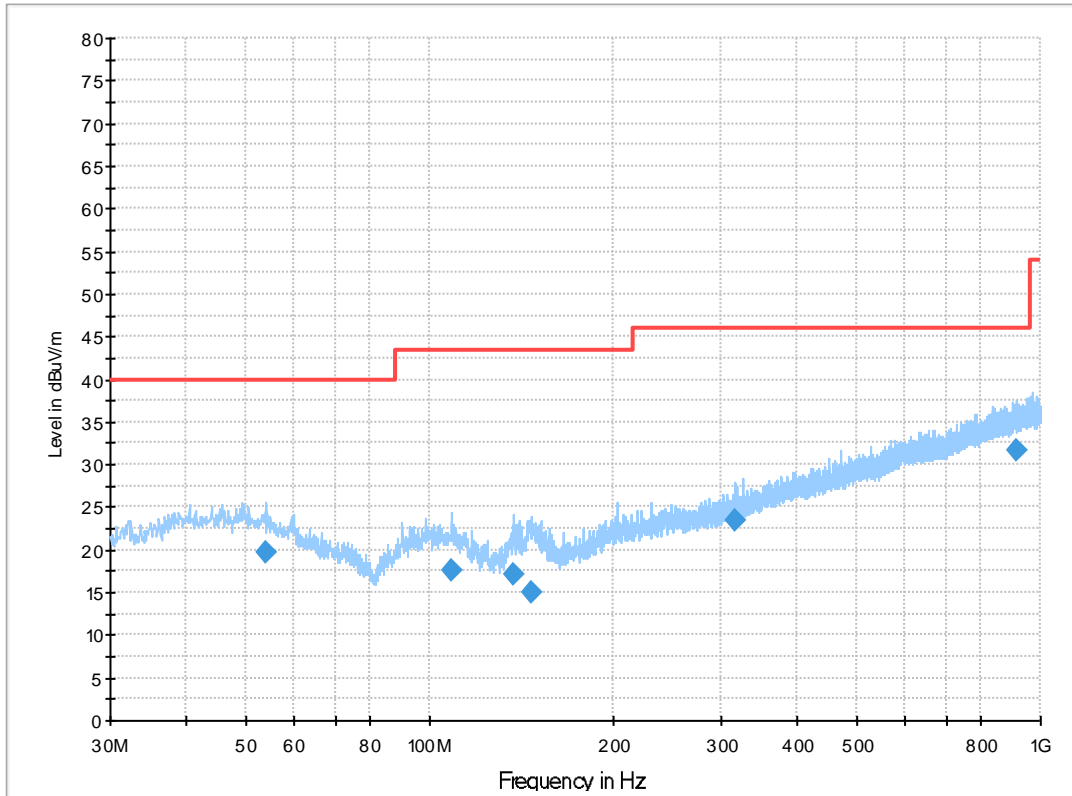


Fig A.1 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBuV/m)	Comment
53.959000	19.7	125.0	V	225.0	-0.3	20.3	40.0	
108.473000	17.5	100.0	V	45.0	-2.0	26.0	43.5	
136.991000	17.2	100.0	V	18.0	-4.8	26.3	43.5	
146.788000	14.9	100.0	V	244.0	-4.9	28.6	43.5	
316.829000	23.5	100.0	H	76.0	2.0	22.5	46.0	
914.252000	31.6	125.0	H	135.0	12.3	14.4	46.0	

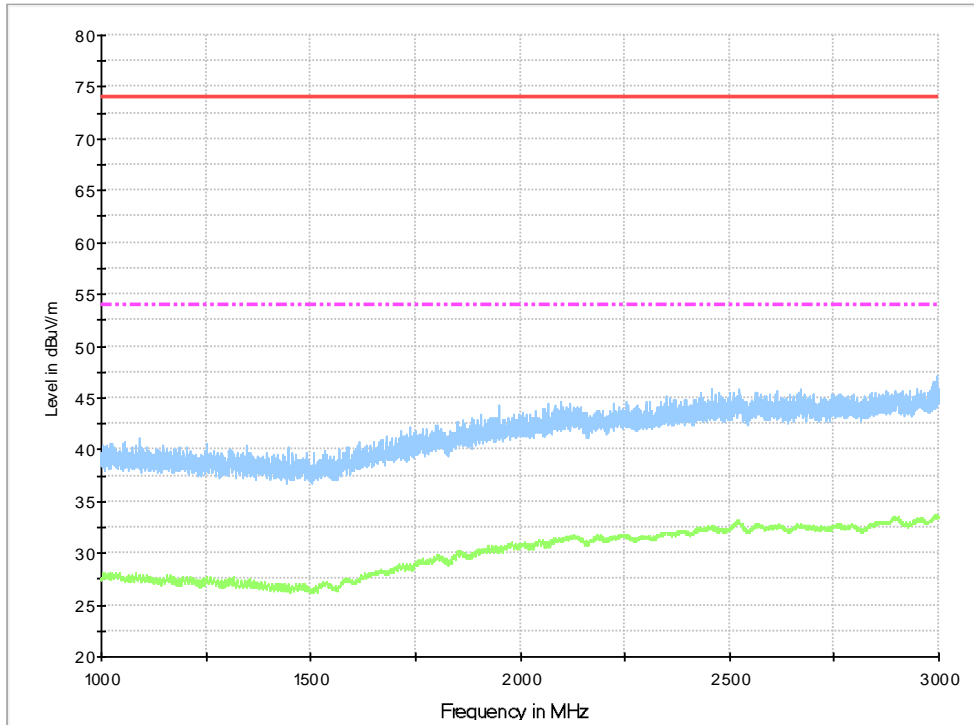


Fig A.2 Radiated Emission from 1GHz to 3GHz

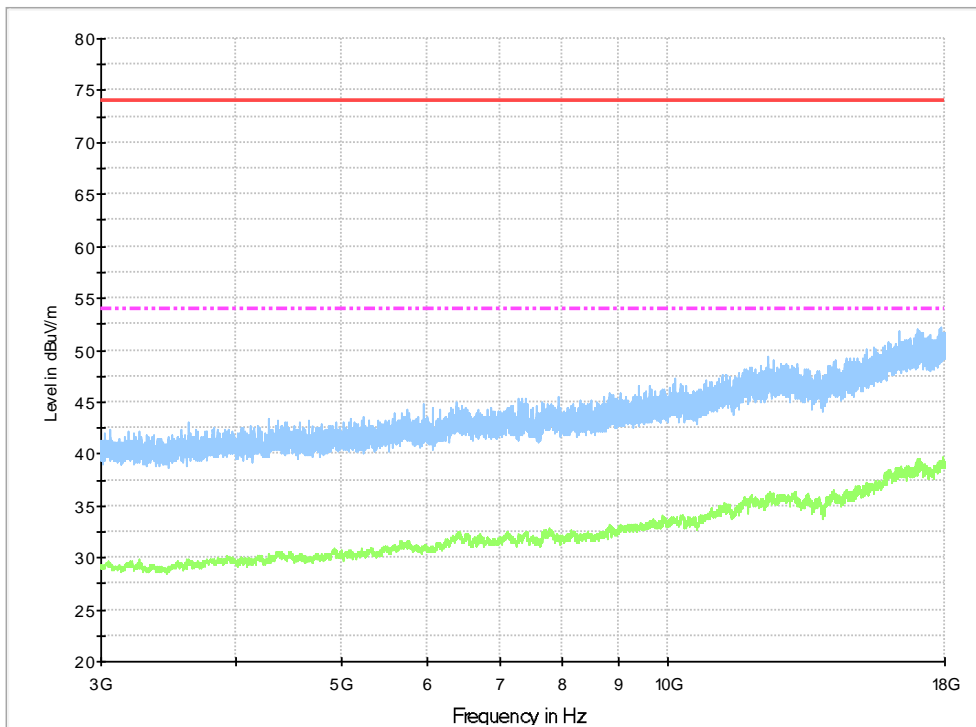


Fig A.3 Radiated Emission from 3GHz to 18GHz

Measurement results for Set.2:

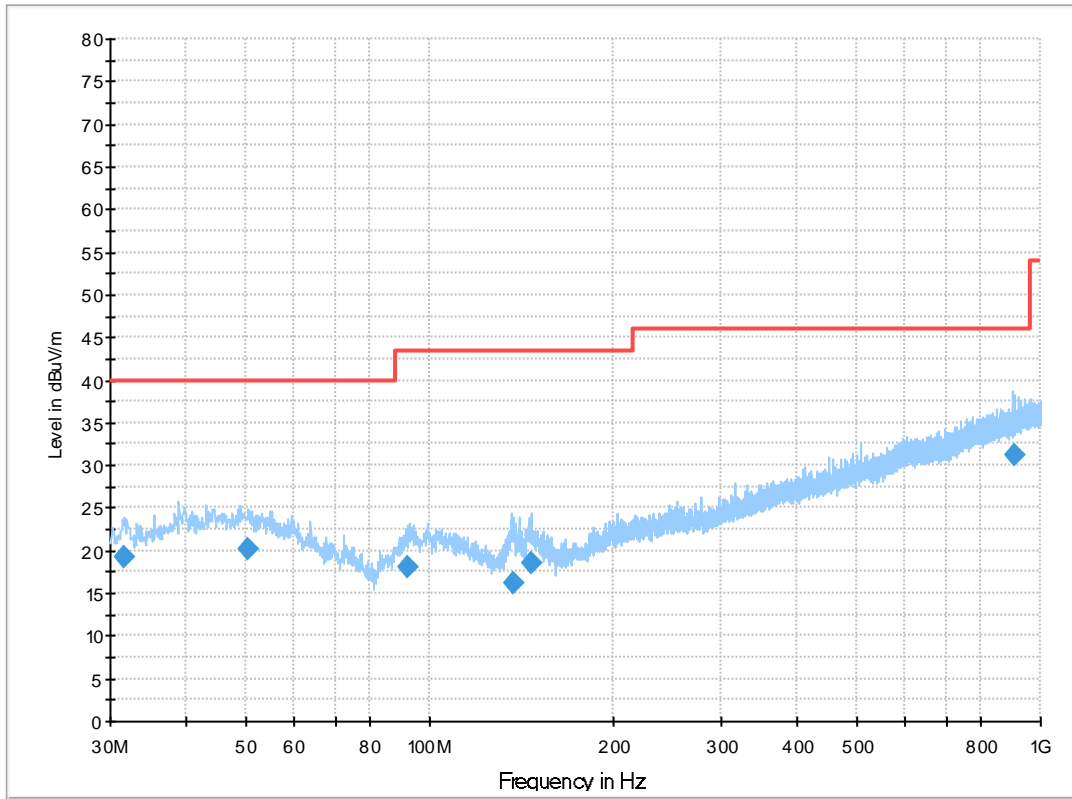


Fig A.4 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBuV/m)	Comment
1.649000	19.1	125.0	V	135.0	-3.3	20.9	40.0	
50.370000	20.3	125.0	V	32.0	0.3	19.7	40.0	
92.274000	18.0	100.0	V	308.0	-2.9	25.5	43.5	
137.282000	16.1	125.0	V	18.0	-4.8	27.4	43.5	
146.497000	18.6	114.0	V	25.0	-4.9	24.9	43.5	
905.522000	31.2	125.0	V	206.0	12.3	14.8	46.0	

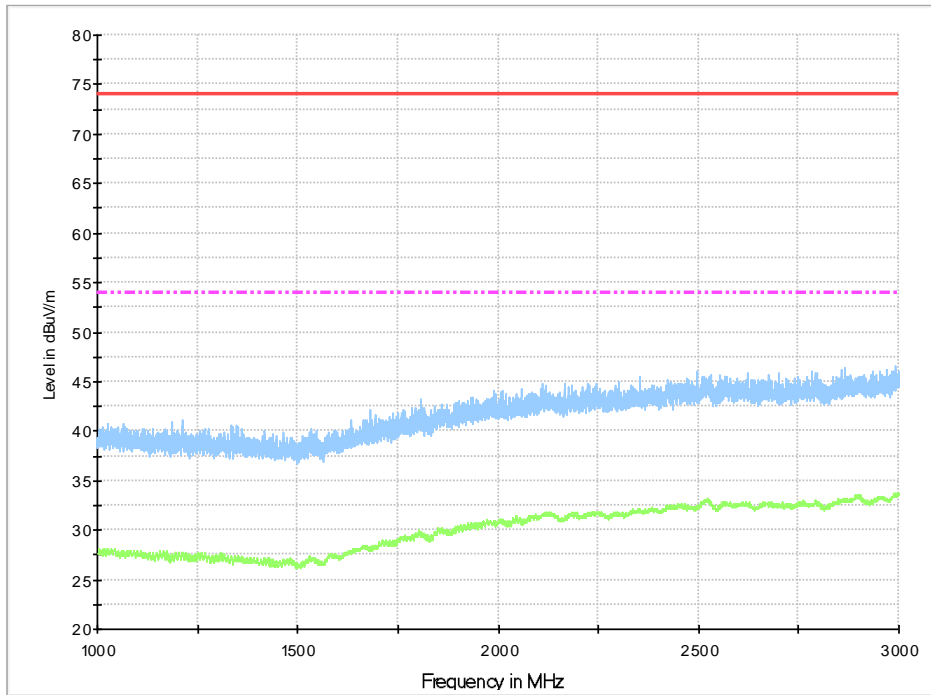


Fig A.5 Radiated Emission from 1GHz to 3GHz

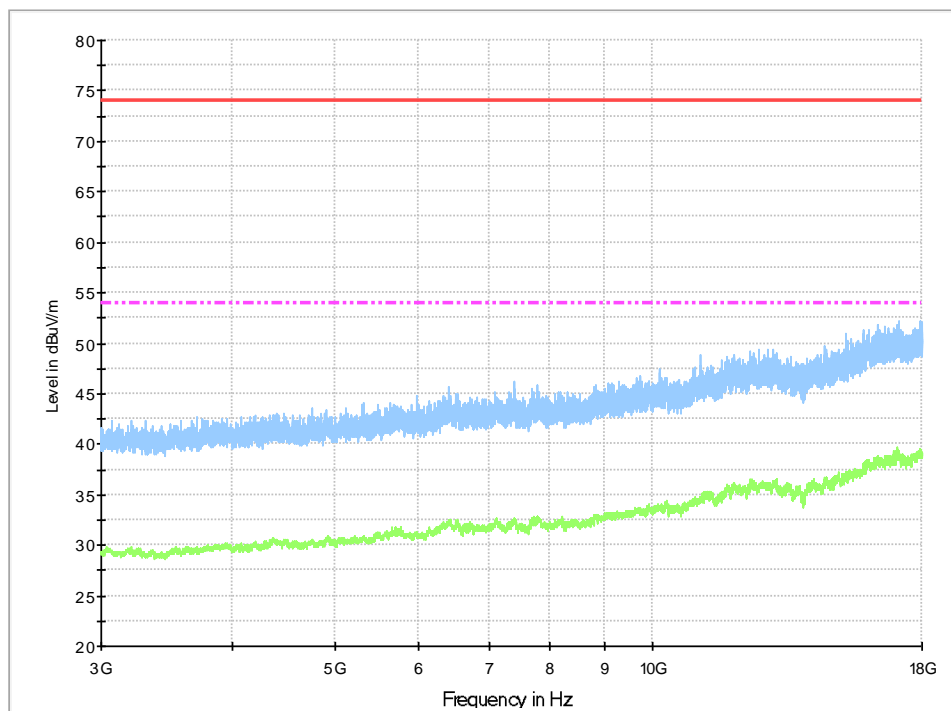


Fig A.6 Radiated Emission from 3GHz to 18GHz

Measurement results for Set.3:

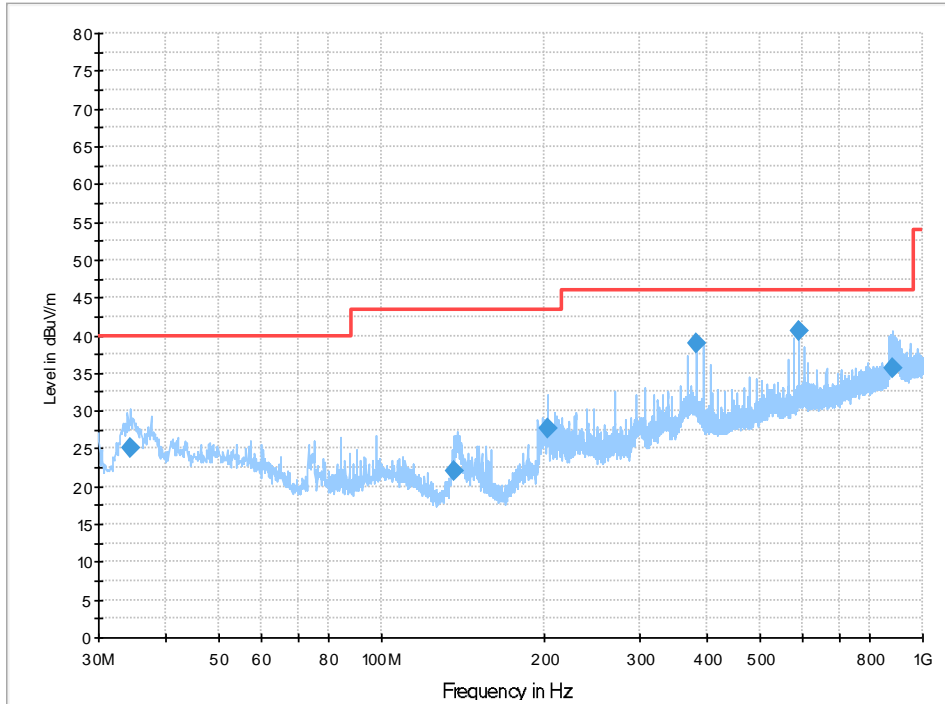


Fig A.7 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV/m)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBuV/m)	Comment
34.365000	25.1	100.0	V	173.0	-2.5	14.9	40.0	
136.506000	22.1	100.0	H	-39.0	-4.8	21.4	43.5	
203.145000	27.6	100.0	H	12.0	-0.9	15.9	43.5	
380.946000	39.0	100.0	H	7.0	4.4	7.0	46.0	
589.787000	40.5	100.0	H	45.0	8.6	5.5	46.0	
878.750000	35.6	100.0	V	0.0	12.0	10.4	46.0	

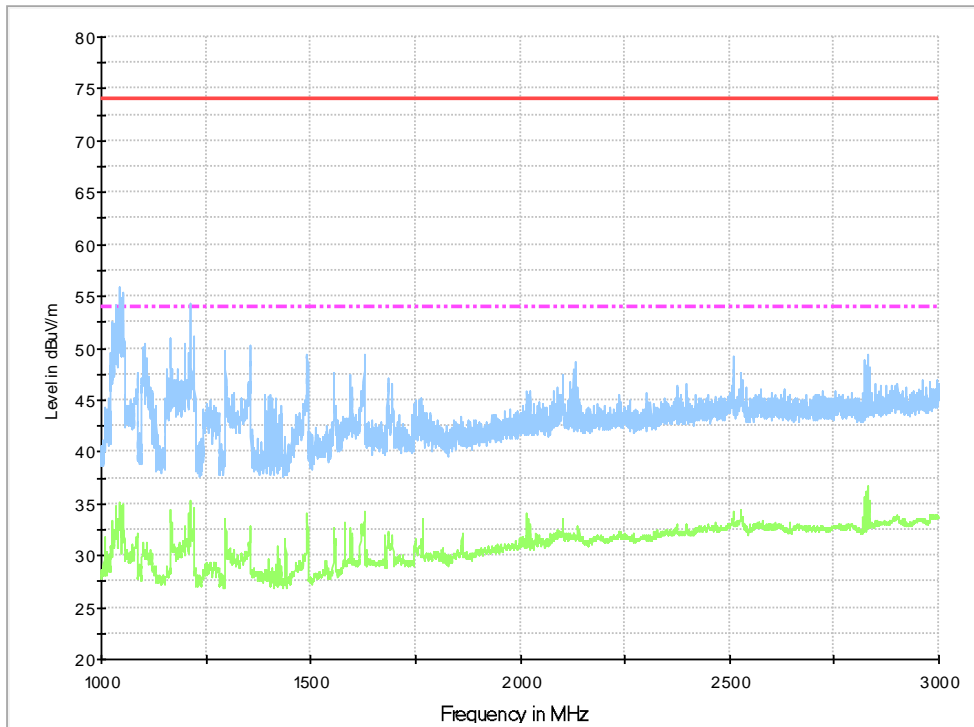


Fig A.8 Radiated Emission from 1GHz to 3GHz

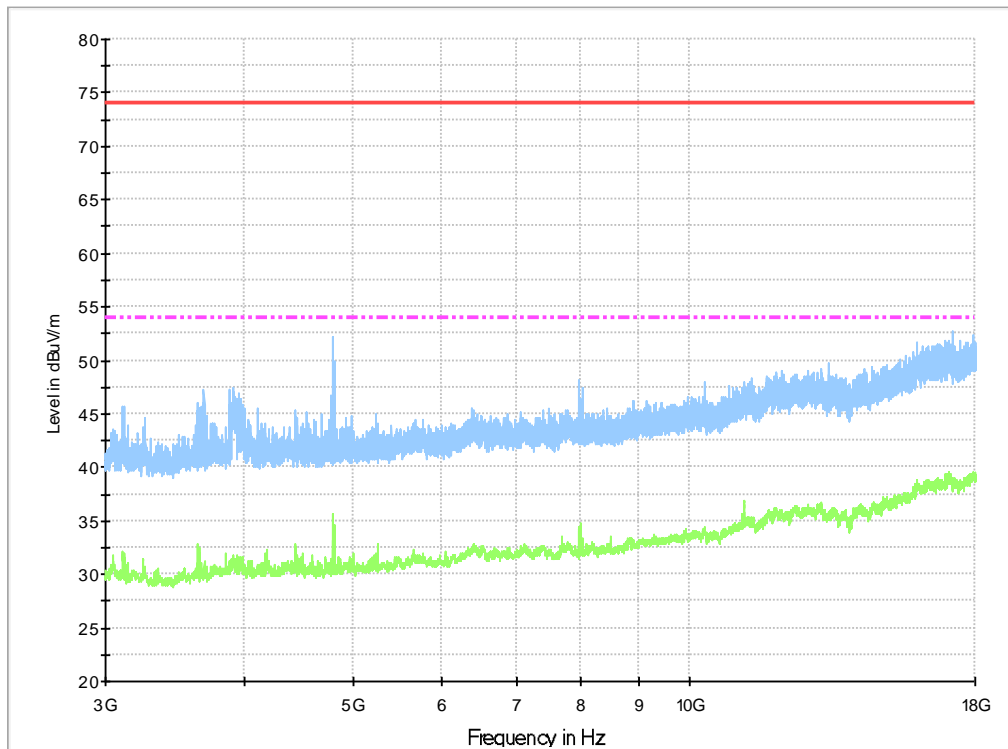


Fig A.9 Radiated Emission from 3GHz to 18GHz

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 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 (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: $U= 3.1 \text{ dB}, k=2$.

Charging Mode, Set.1:

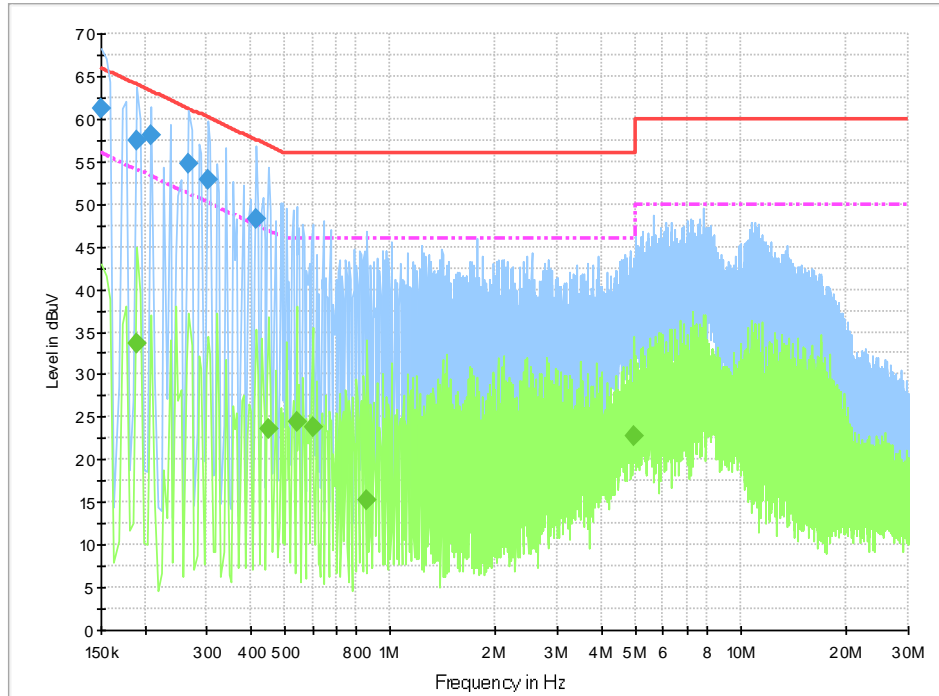


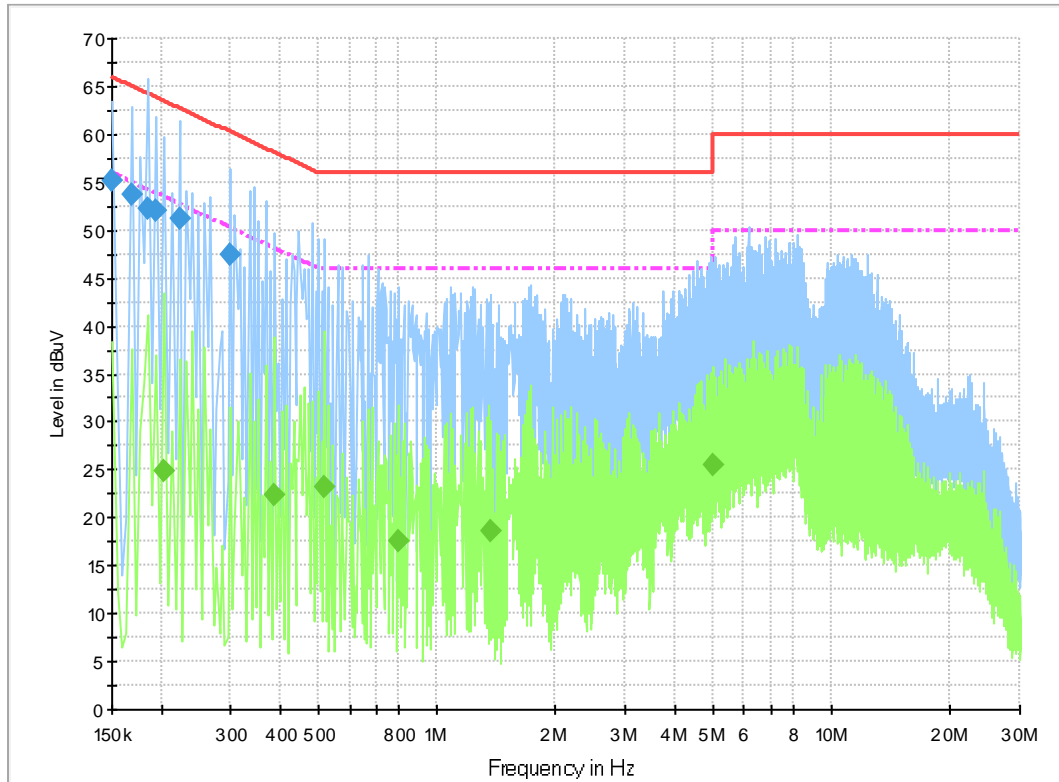
Fig A.10 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.150000	61.2	3000.0	9.000	On	N	19.9	4.8	66.0	
0.190500	57.5	3000.0	9.000	On	L1	19.8	6.5	64.0	
0.208500	58.2	3000.0	9.000	On	N	19.7	5.1	63.3	
0.267000	54.7	3000.0	9.000	On	N	19.8	6.5	61.2	
0.303000	52.8	3000.0	9.000	On	N	19.8	7.4	60.2	
0.415500	48.2	3000.0	9.000	On	N	19.8	9.3	57.5	

Final Result 2

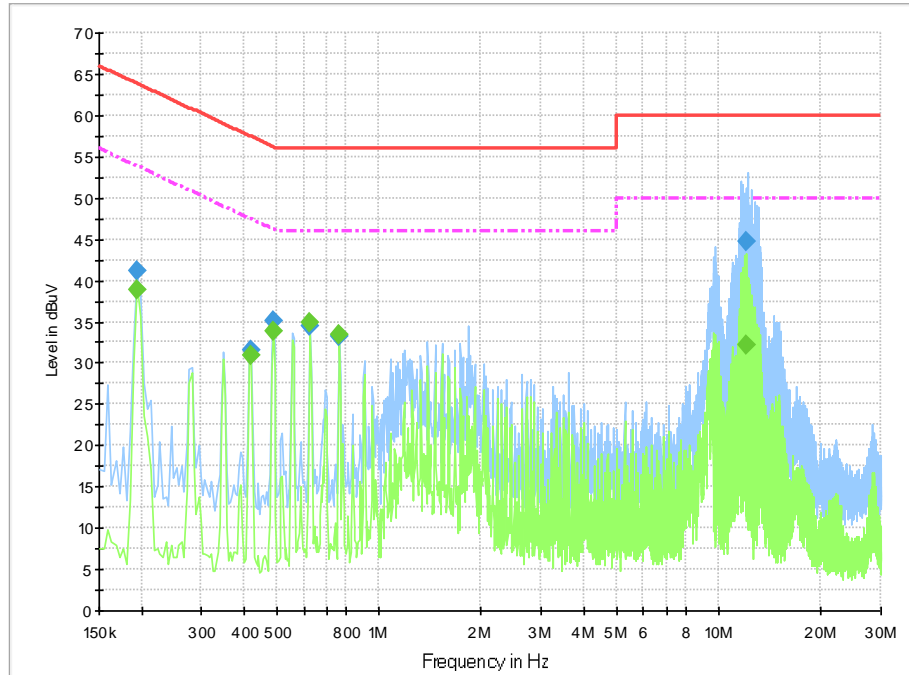
Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.190500	33.6	3000.0	9.000	On	N	19.8	20.4	54.0	
0.451500	23.7	3000.0	9.000	On	N	19.8	23.2	46.8	
0.541500	24.4	3000.0	9.000	On	N	19.8	21.6	46.0	
0.600000	23.8	3000.0	9.000	On	N	19.7	22.2	46.0	
0.861000	15.3	3000.0	9.000	On	L1	19.7	30.7	46.0	
4.978500	22.8	3000.0	9.000	On	N	19.7	23.2	46.0	

Charging Mode, Set.2:

Fig A.11 Conducted Emission from 150kHz to 30MHz
Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.150000	55.2	3000.0	9.000	On	L1	20.0	10.8	66.0	
0.168000	53.7	3000.0	9.000	On	L1	19.9	11.4	65.1	
0.186000	52.2	3000.0	9.000	On	L1	19.8	12.0	64.2	
0.195000	52.1	3000.0	9.000	On	L1	19.7	11.7	63.8	
0.222000	51.2	3000.0	9.000	On	N	19.8	11.5	62.7	
0.298500	47.4	3000.0	9.000	On	L1	19.7	12.9	60.3	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.204000	24.9	3000.0	9.000	On	N	19.7	28.6	53.4	
0.388500	22.3	3000.0	9.000	On	N	19.8	25.8	48.1	
0.519000	23.3	3000.0	9.000	On	N	19.8	22.7	46.0	
0.798000	17.5	3000.0	9.000	On	L1	19.7	28.5	46.0	
1.365000	18.6	3000.0	9.000	On	L1	19.6	27.4	46.0	
4.987500	25.5	3000.0	9.000	On	N	19.7	20.5	46.0	

USB Mode, Set.3:

Fig A.12 Conducted Emission from 150kHz to 30MHz
Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.195000	41.2	3000.0	9.000	On	N	19.7	22.6	63.8	
0.420000	31.6	3000.0	9.000	On	N	19.8	25.9	57.4	
0.487500	35.1	3000.0	9.000	On	N	19.8	21.1	56.2	
0.627000	34.5	3000.0	9.000	On	L1	19.7	21.5	56.0	
0.766500	33.3	3000.0	9.000	On	L1	19.7	22.7	56.0	
12.048000	44.7	3000.0	9.000	On	L1	19.8	15.3	60.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.195000	38.9	3000.0	9.000	On	N	19.7	15.0	53.8	
0.420000	31.0	3000.0	9.000	On	L1	19.8	16.5	47.4	
0.487500	33.9	3000.0	9.000	On	L1	19.8	12.4	46.2	
0.627000	34.8	3000.0	9.000	On	N	19.7	11.2	46.0	
0.766500	33.5	3000.0	9.000	On	N	19.7	12.5	46.0	
12.048000	32.2	3000.0	9.000	On	L1	19.8	17.8	50.0	

END OF REPORT