



CAICT



TEST REPORT

No. I22Z61951-EMC01

for

TCL Communication Ltd.

LINKHUB

Model Name: HH63AF

FCC ID: 2ACCJB195

with

Hardware Version: PIO

Software Version: HH63A_00_02.00_03

Issued Date: 2022-11-14

Note:

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I22Z61951-EMC01	Rev.0	1 st edition	2022-11-14

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

CONTENTS

1. TEST LABORATORY	4
1.1. TESTING LOCATION	4
1.2. TESTING ENVIRONMENT	4
1.3. PROJECT DATA	4
1.4. SIGNATURE.....	4
2. CLIENT INFORMATION.....	5
2.1. APPLICANT INFORMATION.....	5
2.2. MANUFACTURER INFORMATION.....	5
3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE)	6
3.1. ABOUT EUT.....	6
3.2. INTERNAL IDENTIFICATION OF EUT USED DURING THE TEST	6
3.3. INTERNAL IDENTIFICATION OF AE USED DURING THE TEST.....	6
3.4. EUT SET-UPS	6
4. REFERENCE DOCUMENTS.....	7
4.1. REFERENCE DOCUMENTS FOR TESTING.....	7
5. LABORATORY ENVIRONMENT.....	8
6. SUMMARY OF TEST RESULTS.....	9
7. TEST EQUIPMENTS UTILIZED.....	10
ANNEX A: MEASUREMENT RESULTS	11

1. Test Laboratory

1.1. Testing 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°C

Relative Humidity: 20-75%

1.3. Project data

Testing Start Date: 2022-10-08

Testing End Date: 2022-11-13

1.4. Signature



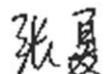
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2. Client Information

2.1. Applicant Information

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

3.1. About EUT

Description	LINKHUB
Model Name	HH63AF
FCC ID:	2ACCJB195

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
UT04a	358814640110047	PIO	HH63A_00_02.00_03

*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
AE1	Charger
AE2	Charger
AE1	
Model	CYSE12-120100U
Manufacturer	CHENYANG
AE2	
Model	1-CHUSB102-131
Manufacturer	PUAN

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

3.4. EUT set-ups

EUT set-up No.	Combination of EUT and AE	Remarks
Set.1	EUT1 + AE1	Charger1 + WCDMA 850 idle
Set.2	EUT1 + AE2	Charger2 + LTE B5 idle
Set.3	EUT1 + AE1 + PC + Terminal	WLAN+TEL

Note:

Equipment Under Test (EUT) is a model of 5G Mobile Phone with integrated antenna.

It supports

UMTS Band FDD Band I(W2100) /FDD Band II(W1900) /FDD Band IV(W1700)/FDD Band V(W850)

LTE Band FDD2/FDD4/FDD5/FDD7/FDD28/FDD 66

It has Wi-Fi (802.11a/b/g/n/ac, 802.11n supports 20MHz and 40MHz bandwidth, 802.11ac supports 20MHz, 40MHz and 80MHz bandwidth) functions.

The device contains receivers which tune and operate between 30MHz-960MHz in the following bands: WCDMA850, LTE Band 5. 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 (<i>S</i> _{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(huayuan North Road)
2	Conducted Emission	15.107(a)	B.2	P	CTTL(huayuan North Road)

7. Test Equipments Utilized

NO.	Description	TYPE	SERIES NUMBER	MANUFACTURE	CAL DUE DATE	CALIBRATION INTERVAL
1	Test Receiver	ESW44	103015	R&S	2023-01-23	1 year
2	LISN	ENV216	101200	R&S	2023-06-29	1 year
3	Universal Radio Communication Tester	CMW500	116588	R&S	2022-12-20	1 year
4	Test Receiver	ESCI 7	100344	R&S	2023-03-21	1 Year
5	EMI Antenna	VULB 9163	302	SCHWARZBECK	2022-12-28	1 year
6	EMI Antenna	3115	00167250	ETS-Lindgren	2023-06-20	1 year
7	Software	EMC32	/	R&S	/	/

ANNEX A: MEASUREMENT RESULTS

A.1 Radiated Emission

Reference

FCC: CFR Part 15.109(a).

A.1.1 Method of measurement

The field strength of radiated emissions from the unintentional radiator (USB mode of MS and charging mode of MS) at distances of 3 meters 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 (μ 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:

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

Where

G_A : Antenna factor of receive antenna

G_{PL} : Path Loss

P_{Mea} : Measurement result on receiver.

Measurement uncertainty (worst case): $U = 5.54 \text{ dB}$, $k=2$.

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)
17865.020	39.90	-29.39	45.95	23.34	54.00	14.10	V
17798.380	39.80	-29.89	45.95	23.73	54.00	14.20	V
17971.780	39.70	-29.06	46.66	22.10	54.00	14.30	H
17776.620	39.70	-29.63	45.95	23.37	54.00	14.30	H
17867.740	39.70	-29.39	45.95	23.14	54.00	14.30	H
17996.260	39.60	-29.06	46.66	22.00	54.00	14.40	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)
17867.060	51.60	-29.39	45.95	35.04	74.00	22.40	V
17944.920	51.40	-28.94	46.66	33.68	74.00	22.60	H
17159.860	51.30	-29.88	42.36	38.81	74.00	22.70	V
17701.820	51.10	-29.73	45.25	35.59	74.00	22.90	V
17957.500	51.00	-28.94	46.66	33.28	74.00	23.00	V
17039.160	51.00	-30.14	41.49	39.65	74.00	23.00	V

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)
17959.200	39.70	-28.94	46.66	21.98	54.00	14.30	V
17949.000	39.70	-28.94	46.66	21.98	54.00	14.30	V
17868.420	39.70	-29.39	45.95	23.14	54.00	14.30	H
17838.840	39.60	-29.68	45.95	23.32	54.00	14.40	V
17939.480	39.60	-29.40	46.66	22.34	54.00	14.40	V
17954.100	39.50	-28.94	46.66	21.78	54.00	14.50	V

Charging Mode/Peak detector

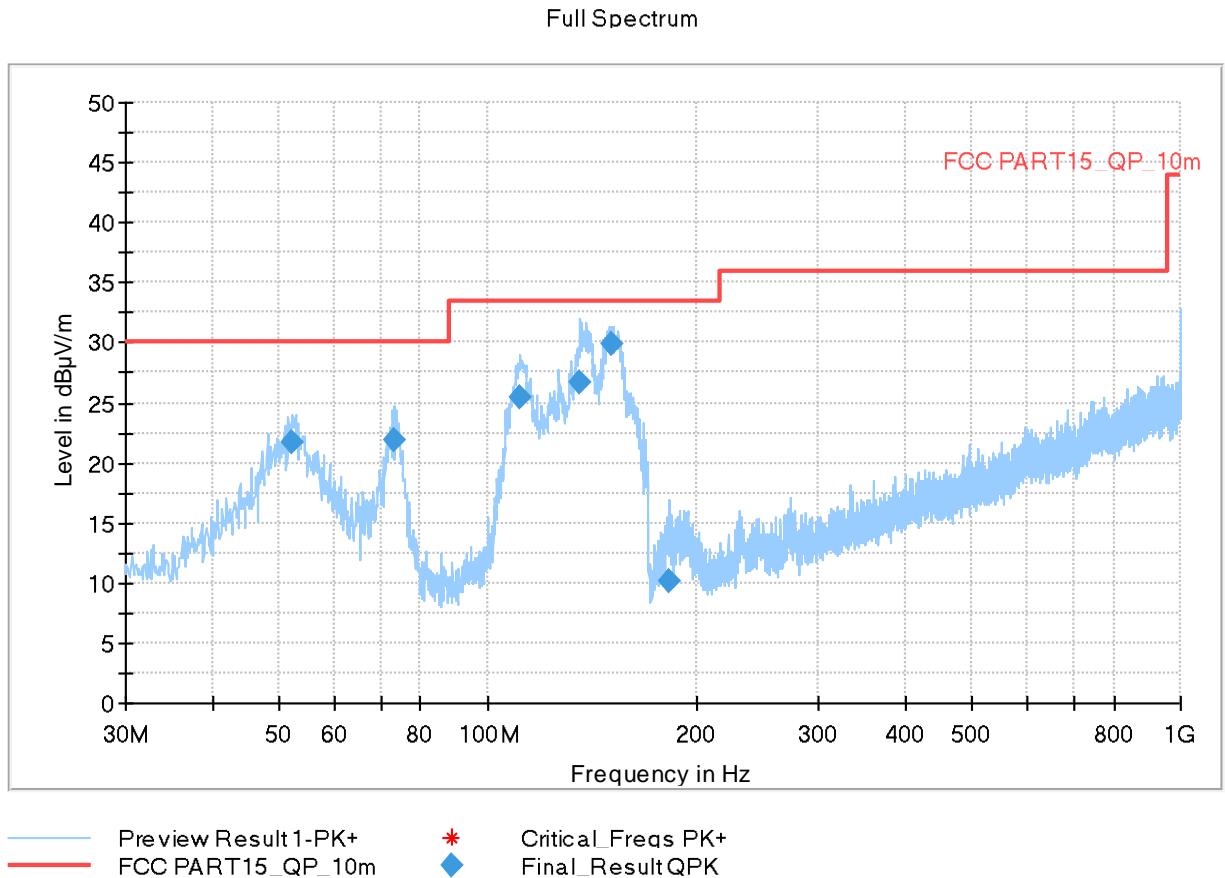
Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17750.440	51.90	-29.61	45.95	35.56	74.00	22.10	V
17959.540	51.10	-28.94	46.66	33.38	74.00	22.90	H
17997.280	51.00	-29.06	46.66	33.40	74.00	23.00	V
17068.740	51.00	-29.77	42.36	38.41	74.00	23.00	V
17998.980	50.90	-29.06	46.66	33.30	74.00	23.10	H
17842.580	50.90	-29.34	45.95	34.28	74.00	23.10	V

Measurement results for Set.3:
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)
17995.580	40.00	-29.06	46.66	22.40	54.00	14.00	V
17979.940	39.80	-29.06	46.66	22.20	54.00	14.20	H
17989.460	39.60	-29.06	46.66	22.00	54.00	14.40	H
17791.240	39.50	-29.89	45.95	23.43	54.00	14.50	H
17955.800	39.50	-28.94	46.66	21.78	54.00	14.50	H
17919.080	39.50	-29.33	46.66	22.17	54.00	14.50	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)
17240.440	51.30	-30.02	43.36	37.96	74.00	22.70	H
17910.580	51.20	-29.33	45.95	34.57	74.00	22.80	H
17855.840	51.20	-29.34	45.95	34.58	74.00	22.80	V
17780.360	51.10	-29.89	45.95	35.03	74.00	22.90	V
17862.640	51.00	-29.39	45.95	34.44	74.00	23.00	H
17474.360	51.00	-30.06	44.35	36.70	74.00	23.00	H

Measurement results for Set.1:

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

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
52.310000	21.67	30.00	8.33	120.000	100.0	V	315.0
73.165000	21.94	30.00	8.06	120.000	283.0	V	278.0
111.286000	25.45	33.52	8.07	120.000	125.0	V	-4.0
136.118000	26.65	33.52	6.87	120.000	175.0	V	149.0
150.377000	29.91	33.52	3.61	120.000	100.0	V	116.0
183.260000	10.13	33.52	23.39	120.000	275.0	V	99.0

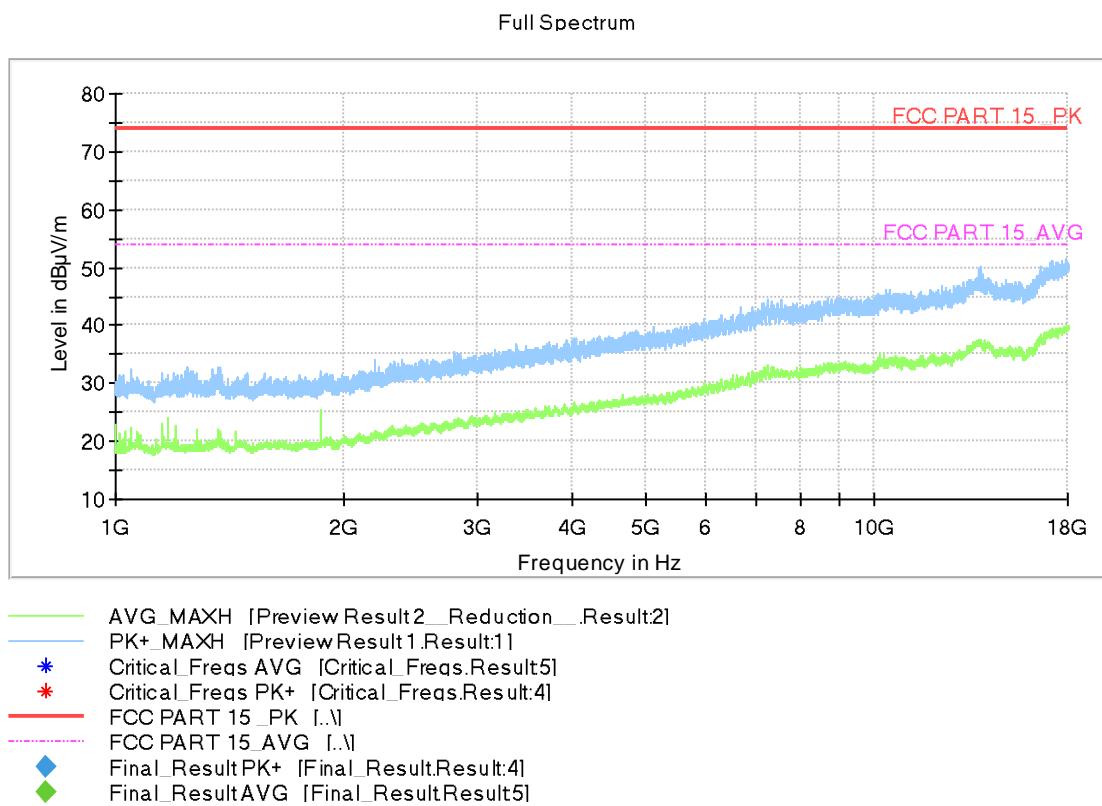


Fig A.2 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.2:

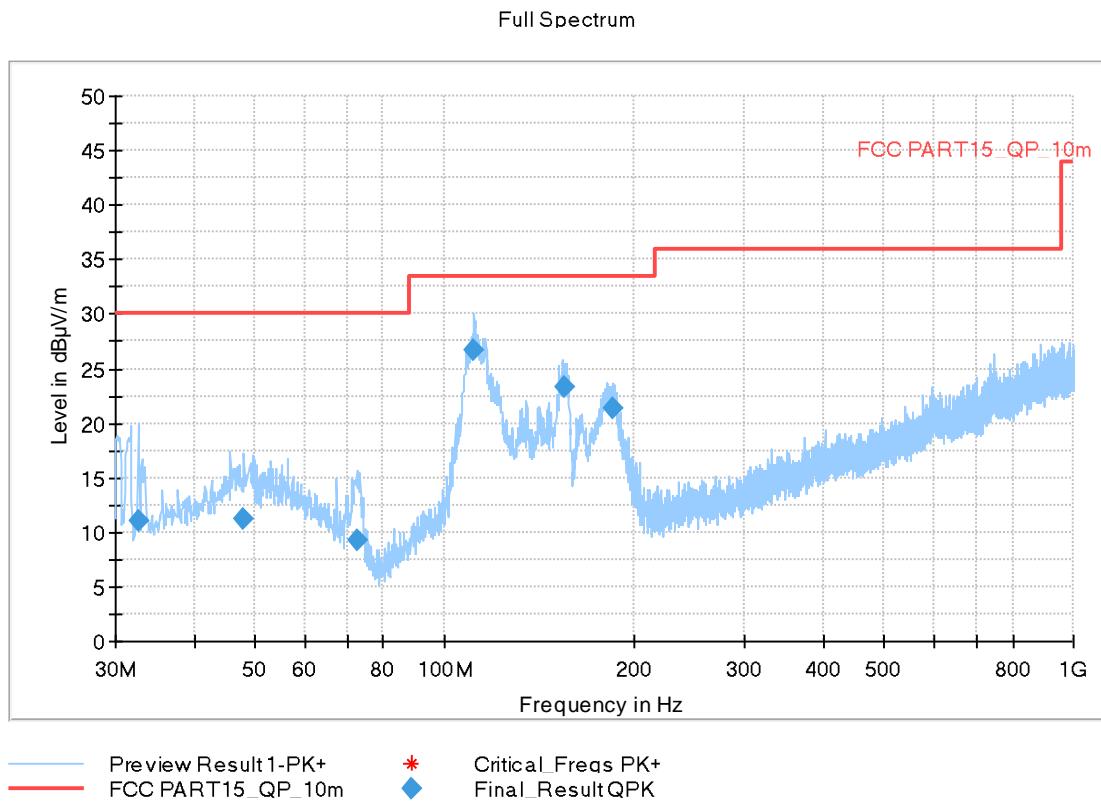


Fig A.3 Radiated Emission from 30MHz to 1GHz

Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
32.619000	11.02	30.00	18.98	120.000	275.0	V	73.0
48.042000	11.26	30.00	18.74	120.000	125.0	V	-5.0
72.583000	9.30	30.00	20.70	120.000	183.0	V	278.0
111.577000	26.73	33.52	6.79	120.000	100.0	V	23.0
155.227000	23.38	33.52	10.14	120.000	108.0	V	23.0
185.103000	21.31	33.52	12.21	120.000	100.0	V	73.0

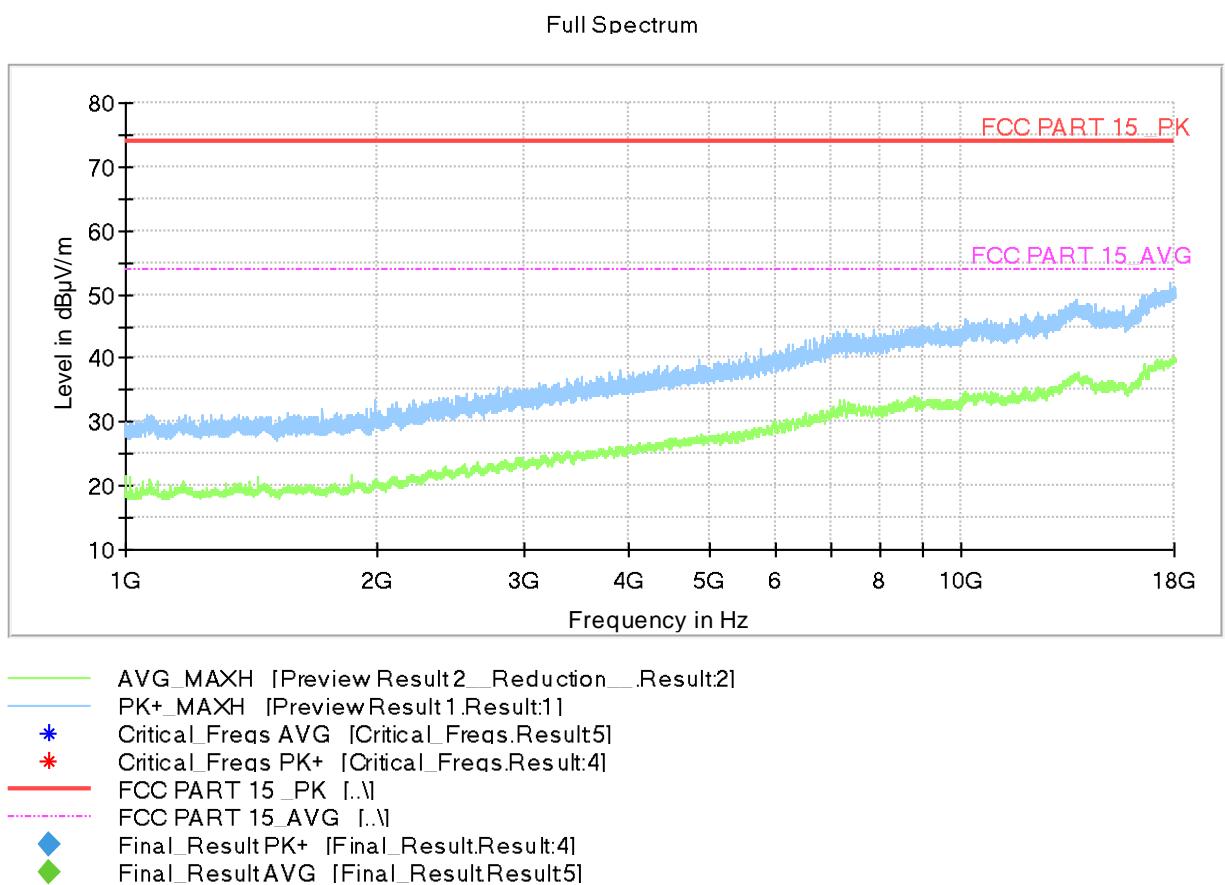
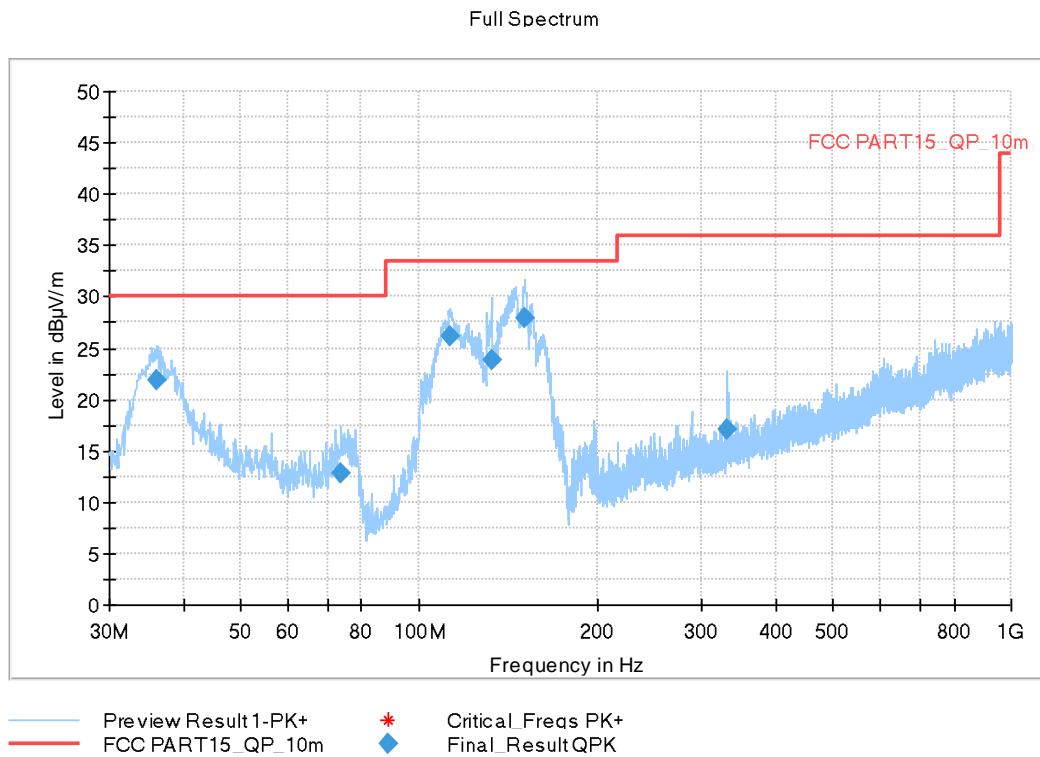


Fig A.4 Radiated Emission from 1GHz to 18GHz

Measurement results for Set.3:

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

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
36.111000	21.85	30.00	8.15	120.000	203.0	V	225.0
73.941000	12.88	30.00	17.12	120.000	108.0	V	137.0
112.741000	26.15	33.52	7.37	120.000	100.0	V	13.0
132.432000	23.92	33.52	9.60	120.000	108.0	V	203.0
150.765000	28.00	33.52	5.52	120.000	125.0	V	135.0
332.252000	17.02	36.02	19.00	120.000	287.0	H	99.0

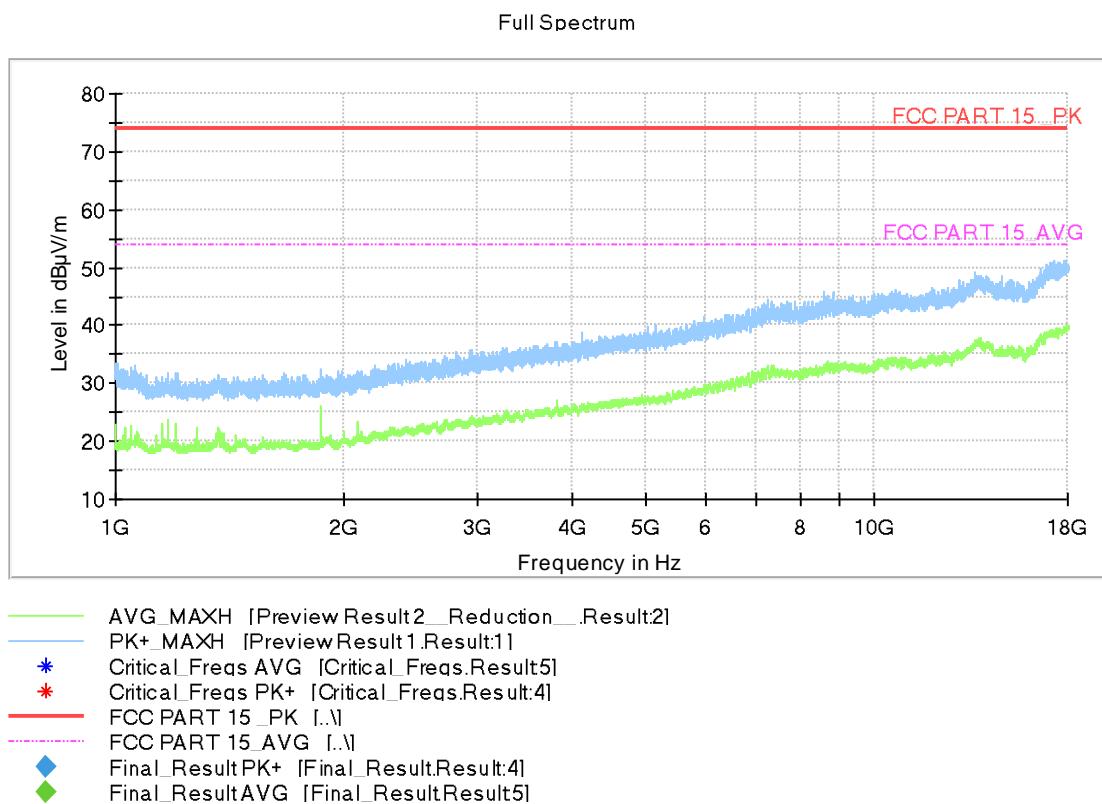


Fig A.6 Radiated Emission from 1GHz to 18GHz

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 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: $U = 3.08 \text{ dB}$, $k=2$.

Charging Mode, Set.1 AC POWER LINE:

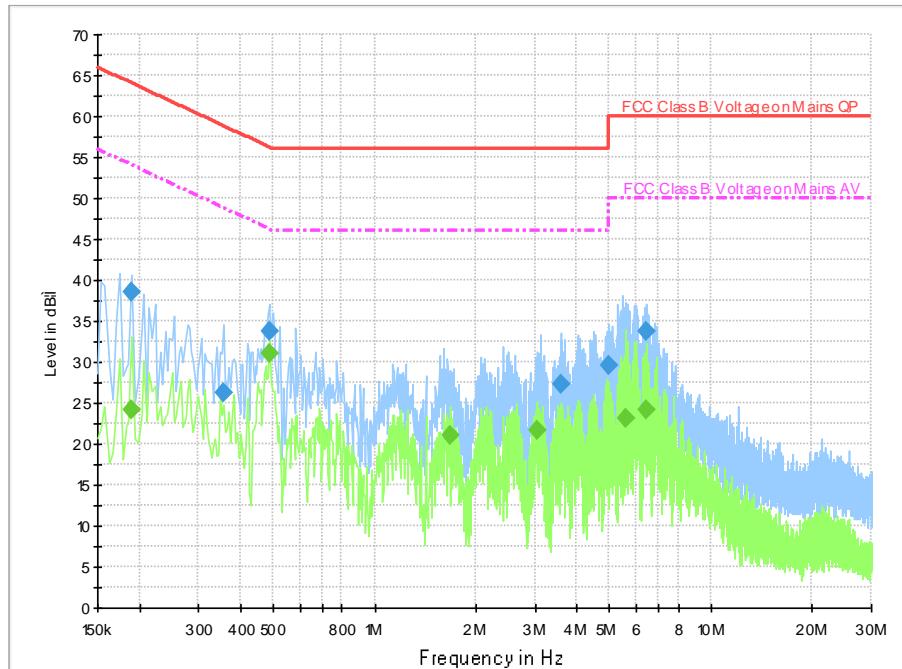


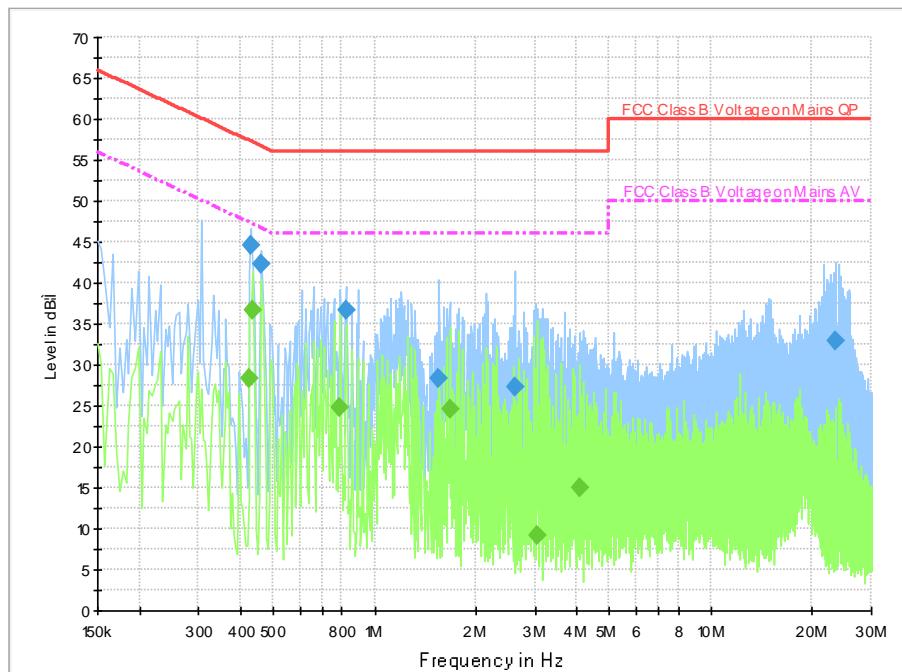
Fig A.7 Conducted Emission from 150kHz to 30MHz

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.190000	38.6	9.000	On	N	19.7	25.5	64.0	
0.354000	26.3	9.000	On	N	19.7	32.6	58.9	
0.486000	33.6	9.000	On	N	19.7	22.6	56.2	
3.578000	27.3	9.000	On	L1	19.6	28.7	56.0	
4.958000	29.6	9.000	On	N	19.6	26.4	56.0	
6.414000	33.8	9.000	On	L1	19.6	26.2	60.0	

Final Result 2

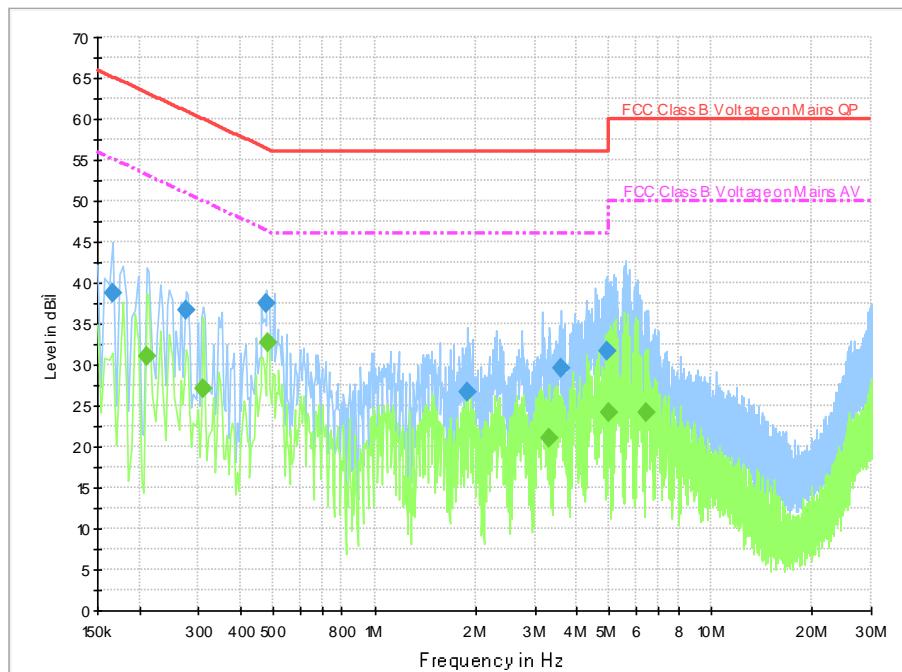
Frequency (MHz)	Average (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.190000	24.1	9.000	On	N	19.7	29.9	54.0	
0.486000	31.1	9.000	On	L1	19.7	15.1	46.2	
1.682000	21.1	9.000	On	L1	19.6	24.9	46.0	
3.030000	21.7	9.000	On	L1	19.6	24.3	46.0	
5.598000	23.2	9.000	On	L1	19.6	26.8	50.0	
6.414000	24.1	9.000	On	L1	19.6	25.9	50.0	

Charging Mode, Set.2 AC POWER LINE:

Fig A.8 Conducted Emission from 150kHz to 30MHz
Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.430000	44.7	9.000	On	L1	19.7	12.6	57.3	
0.462000	42.3	9.000	On	L1	19.7	14.3	56.7	
0.822000	36.7	9.000	On	L1	19.7	19.3	56.0	
1.554000	28.4	9.000	On	L1	19.6	27.6	56.0	
2.606000	27.3	9.000	On	L1	19.6	28.7	56.0	
23.446000	32.9	9.000	On	N	19.8	27.1	60.0	

Final Result 2

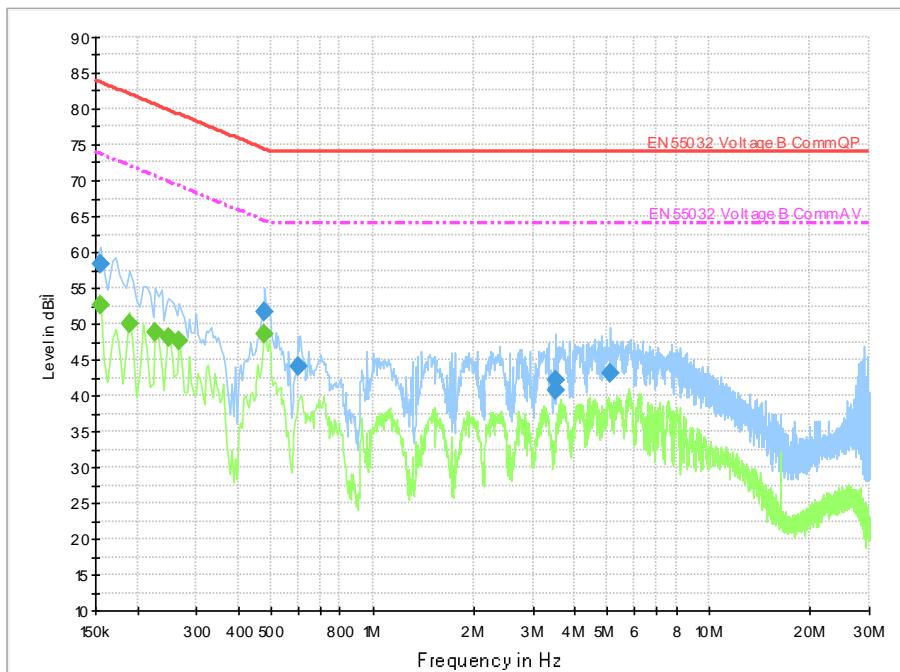
Frequency (MHz)	Average (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.426000	28.3	9.000	On	L1	19.7	19.0	47.3	
0.434000	36.6	9.000	On	N	19.7	10.6	47.2	
0.790000	24.7	9.000	On	L1	19.7	21.3	46.0	
1.670000	24.7	9.000	On	L1	19.6	21.3	46.0	
3.046000	9.2	9.000	On	L1	19.6	36.8	46.0	
4.074000	15.0	9.000	On	L1	19.6	31.0	46.0	

Charging Mode, Set.3 AC POWER LINE:

Fig A.9 Conducted Emission from 150kHz to 30MHz
Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.166000	38.8	9.000	On	L1	19.8	26.4	65.2	
0.274000	36.8	9.000	On	L1	19.7	24.2	61.0	
0.478000	37.5	9.000	On	L1	19.7	18.9	56.4	
1.886000	26.7	9.000	On	N	19.6	29.3	56.0	
3.574000	29.7	9.000	On	L1	19.6	26.3	56.0	
4.922000	31.6	9.000	On	L1	19.6	24.4	56.0	

Final Result 2

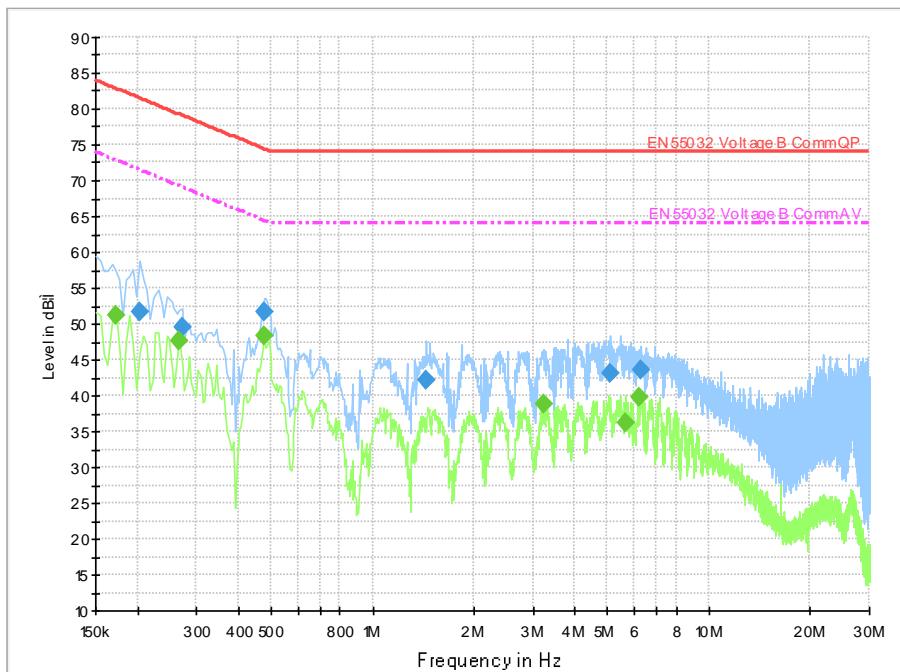
Frequency (MHz)	Average (dBuV)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.210000	31.0	9.000	On	L1	19.7	22.2	53.2	
0.310000	27.2	9.000	On	L1	19.7	22.8	50.0	
0.482000	32.7	9.000	On	L1	19.7	13.6	46.3	
3.294000	21.0	9.000	On	L1	19.6	25.0	46.0	
4.950000	24.2	9.000	On	L1	19.6	21.8	46.0	
6.438000	24.1	9.000	On	L1	19.6	25.9	50.0	

Communication Mode, Set.3 RJ11:

Fig A.10 Conducted Emission from 150kHz to 30MHz
Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.154500	58.3	9.000	20.0	25.5	83.8	
0.478500	51.7	9.000	19.8	22.6	74.4	
0.600000	44.1	9.000	19.7	29.9	74.0	
3.498000	40.6	9.000	19.7	33.4	74.0	
3.507000	42.1	9.000	19.7	31.9	74.0	
5.086500	43.1	9.000	19.7	30.9	74.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Bandwidth (kHz)	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.154500	52.5	9.000	20.0	21.2	73.8	
0.190500	50.1	9.000	19.9	21.9	72.0	
0.226500	48.9	9.000	19.9	21.7	70.6	
0.249000	48.2	9.000	19.9	21.6	69.8	
0.267000	47.6	9.000	19.9	21.6	69.2	
0.474000	48.5	9.000	19.8	16.0	64.4	

Communication Mode, Set.3 RJ45:

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

Frequency (MHz)	QuasiPeak (dBuV)	Bandwidth (kHz)	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.204000	51.7	9.000	19.9	29.7	81.4	
0.271500	49.4	9.000	19.8	29.7	79.1	
0.478500	51.7	9.000	19.7	22.7	74.4	
1.441500	42.2	9.000	19.5	31.8	74.0	
5.077500	43.0	9.000	19.4	31.0	74.0	
6.274500	43.7	9.000	19.4	30.3	74.0	

Final Result 2

Frequency (MHz)	Average (dBuV)	Bandwidth (kHz)	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.172500	51.2	9.000	20.0	21.6	72.8	
0.267000	47.6	9.000	19.8	21.6	69.2	
0.474000	48.4	9.000	19.7	16.0	64.4	
3.219000	38.9	9.000	19.4	25.1	64.0	
5.653500	36.2	9.000	19.4	27.8	64.0	
6.238500	39.8	9.000	19.4	24.2	64.0	

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