



TESTREPORT

No.I19N00846-EMC

for

Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd
smartphone

Model Name: cp3648A

FCC ID:R38YLCP3648A

Hardware Version: P1

Software Version: 9.0.002.P1.190609.cp3648A

Issued Date: 2019-07-02

Designation Number: CN1210

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of SAICT.

Test Laboratory:

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I19N00846-EMC	Rev.0	1st edition	2019-07-02

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	6
3.3. INTERNAL IDENTIFICATION OF AE	6
3.4. EUT SET-UPS	8
4. REFERENCE DOCUMENTS	9
4.1. REFERENCE DOCUMENTS FOR TESTING	9
5. LABORATORY ENVIRONMENT	10
6. SUMMARY OF TEST RESULTS	11
7. TEST FACILITIES UTILIZED	12
ANNEX A: MEASUREMENT RESULTS	13
A.1 RADIATED EMISSION (§ 15.109(A))	13
B.2 CONDUCTED EMISSION (§ 15.107(A))	41

1. Test Laboratory

1.1. Testing Location

Company Name: Shenzhen Academy of Information and Communications
Technology
Address: Building G, Shenzhen International Innovation Center, No.1006
Shennan Road, Futian District, Shenzhen, Guangdong, P. R. China
Postal Code: 518026
Telephone: +86(0)755-33322000
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1.2. Testing Environment

Normal Temperature: 15-35°C
Relative Humidity: 20-75%

1.3. Project data

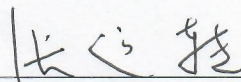
Testing Start Date: 2019-06-02
Testing End Date: 2019-07-02

1.4. Signature



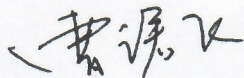
Liang Yong

(Prepared this test report)



Zhang Yunzhan

(Reviewed this test report)



Cao Junfei

Director of the laboratory
(Approved this test report)

2. ClientInformation

2.1. Applicant Information

Company Name: Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd
Address: Building B, Boton Science Park, Chaguang Road, Xili Town, Nanshan
District, Shenzhen

2.2. Manufacturer Information

Company Name: Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd
Address: Building B, Boton Science Park, Chaguang Road, Xili Town, Nanshan
District, Shenzhen

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

3.1. About EUT

Description	smartphone
Model Name	cp3648A
FCC ID	R38YLCP3648A
Condition of EUT as received	No obvious damage in appearance

The Equipment Under Test (EUT) are a model of smartphone with integrated antenna.

The EUT supports GPRS service and EGPRS service.

The EUT supports FM receiver function.

Remark: The above EUT's information is declared by manufacturer. Please refer to the specifications or user's manual for more detailed information.

3.2. Internal Identification of EUT

EUT ID*	SN or IMEI	HW Version	SW Version
UT04aa	990013500007179	P1	9.0.002.P1.190609.cp3648A
UT03aa	990013500007211	P1	9.0.002.P1.190609.cp3648A

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

3.3. Internal Identification of AE

AE ID*	Description	SN
AE1	Battery	/
AE2	Travel Charger	/
AE3	Type C Cable	/

AE1-1

Model	Li-ion Polymer
Manufacturer	Tianjin Lishen
Capacitance	2450mAh
Nominal Voltage	3.85V

AE1-2

Model	Li-ion Polymer
Manufacturer	Zhuhai Coslight
Capacitance	2450mAh
Nominal Voltage	3.85V

AE2-1

Model	RD0501000-USBA-18MG
Manufacturer	Shenzhen Ruide

AE2-2

Model	618045
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Manufacturer	Shenzhen Kosun
AE3-1	
Model	USB A To Type C
Manufacturer	Leagtech Electronics
AE3-2	
Model	USB A To Type C
Manufacturer	Shenzhen Saibao

*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	UT03aa+ AE1-1+AE2+AE3-1	Charging mode,Camera mode,FM receiver mode
Set.2	UT04aa+ AE1-2+AE2+AE3-2	Charging mode,Camera mode,FM receiver mode
Set.3	UT03aa+AE1-1+AE3-1	Data transfer mode
Set.4	UT04aa+AE1-2+AE3-2	Data transfer mode

4. Reference Documents

4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part 15, Subpart B	Radio frequency devices	10-1-2018 Edition
ANSI C63.4	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2014

5. LABORATORY ENVIRONMENT

Semi-anechoic chamber 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-18000MHz,>90dB
Electrical insulation	>2M
Ground system resistance	<4
Normalised site attenuation (NSA)	<±4 dB, 3 m distance, from 30 to 1000 MHz

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

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. =20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz,>60dB; 1MHz-10000MHz,>90dB
Electrical insulation	>2M
Ground system resistance	<4

Fully-anechoic chamber 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-18000MHz,>90dB
Electrical insulation	>2M
Ground system resistance	<4
Voltage Standing Wave Ratio (VSWR)	≤ 6 dB, from 1 to 18GHz, 3 m distance
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

6. SUMMARY OF TEST RESULTS

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

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

7. Test Facilities Utilized

NO.	NAME	TYPE	SERIES NUMBER	PRODUCER	CALDUE DATE	CAL PERIOD
1.	Test Receiver	ESR7	101676	R&S	2019.11.28	1 year
2.	Test Receiver	ESCI	100702	R&S	2020.06.19	1 year
3.	Spectrum Analyzer	FSV40	101192	R&S	2020.05.19	1 year
4.	BiLog Antenna	3142E	00224831	ETS-lindgren	2021.05.17	3 years
5.	LISN	ENV216	102067	R&S	2019.07.18	1 year
6.	Horn Antenna	3117	00066577	ETS-lindgren	2022.04.02	3 years
7.	Universal Radio Communication Tester	CMU200	114545	R&S	2020.05.16	1 year
8.	PC	ThinkPad E480	PF-0Z56NV	Lenovo	/	/
9.	Printer	P1008	VNF6C12491	HP	/	/
10.	Mouse	MOEUJUA	44NY517	Lenovo	/	/
11.	Chamber	FACT3-2.0	1285	ETS-Lindgren	2020.07.20	3 years

ANNEX A: MEASUREMENT RESULTS

A.1 Radiated Emission (§15.109(a))

Reference

FCC: CFR Part 15.109(a)

A.1.1 Method of measurement

The field strength of radiated emissions from the unintentional radiator (Data transfer mode of MS and charging mode of MS) at a distance of 3 meters is tested. Tested in accordance with the procedures of ANSI C63.4 -2014, section 8.3.

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

A.1.2 EUT Operating Mode:

Camera mode/Charging mode: The EUT is keeping on taking photos.The MS is connected to a charger.

Charging mode/FM receiver mode: The MS is synchronized to SS, and able to respond to paging messages and incoming call. An established call has been released. The FM receiver function is on.The MS is connected to a charger.

Data transfer mode: The model of the PC is Lenovo ThinkPad E480, and the serial number of the PC is PF-0Z56NV. The software is used to let the PC keep on copying data to MS, reading and erasing the data after copy action was finished.

Data transfer mode/TF Card: The model of the PC is Lenovo ThinkPad E480, and the serial number of the PC is PF-0Z56NV. The software is used to let the PC keep on copying data to TF card, reading and erasing the data after copy action was finished.

A.1.3 Measurement Limit

Limit from CFR Part 15.109(a)

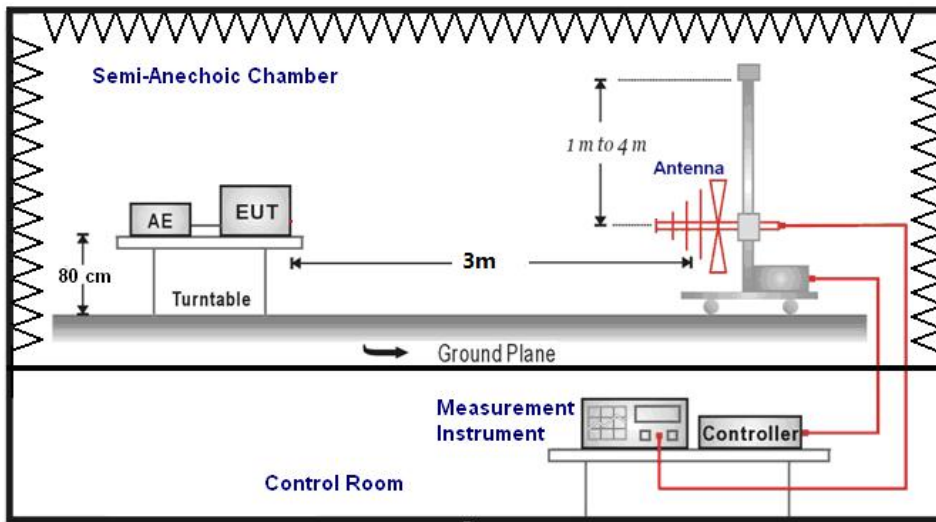
Frequency range (MHz)	Field strength limit ($\mu\text{V}/\text{m}$)		
	Quasi-peak	Average	Peak
30-88	100		
88-216	150		
216-960	200		
960-1000	500		
>1000		500	5000

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

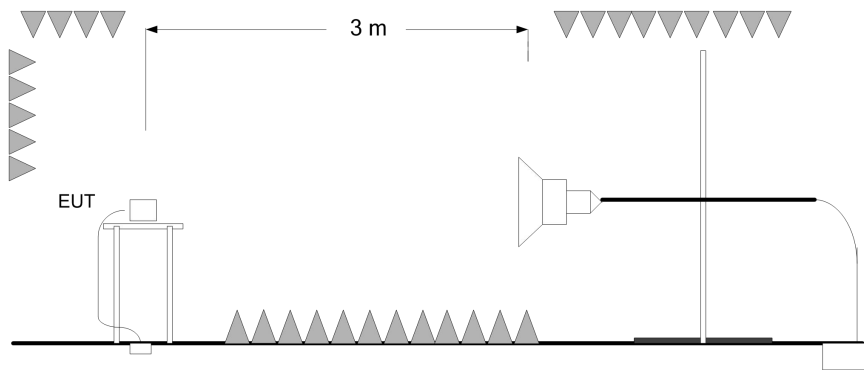
A.1.4 Test Condition

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

**A.1.5 Test set-up:
30MHz-1GHz**



1GHz-18GHz



A.1.6 Measurement Results

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss". It includes the antenna factor of receive antenna and the path loss.

The measurement results are obtained as described below:

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

Where

G_A : Antenna factor of receive antenna

G_{PL} : Path Loss

P_{Mea} : Measurement result on receiver.

Note: the result contains vertical part and Horizontal part

RE Measurement uncertainty: 30M-1GHz: 5.12dB (k=2);
1GHz-18GHz: 5.05 dB (k=2)

Set.1 Camera mode / Charging mode / Peak detector

Frequency(MHz)	Result(dBuV/m)	Limit (dB μ V/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dB μ V)
13116.00	46.19	74.00	27.81	H	9.80	36.39
14010.50	46.86	74.00	27.14	V	11.50	35.36
14777.50	47.27	74.00	26.73	V	12.60	34.67
15748.50	48.19	74.00	25.81	V	14.40	33.79
16780.00	50.39	74.00	23.61	V	16.30	34.09
17854.00	50.25	74.00	23.75	H	17.60	32.65

Set.1 Camera mode / Charging mode / Average detector

Frequency(MHz)	Result(dBuV/m)	Limit (dB μ V/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dB μ V)
13116.00	32.77	54.00	21.23	H	9.80	22.97
14010.50	34.01	54.00	19.99	V	11.50	22.51
14777.50	34.80	54.00	19.20	V	12.60	22.20
15748.50	35.62	54.00	18.38	V	14.40	21.22
16780.00	37.55	54.00	16.45	V	16.30	21.25
17854.00	37.84	54.00	16.16	H	17.60	20.24

Set.1 Charging mode /FM receiver mode / Peak detector

Frequency(MHz)	Result(dBuV/m)	Limit (dB μ V/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dB μ V)
12027.50	45.41	74.00	28.59	H	9.30	36.11
13324.50	46.69	74.00	27.31	H	10.10	36.59
14084.50	46.71	74.00	27.29	H	12.00	34.71
15110.00	47.71	74.00	26.29	H	13.40	34.31
16391.00	49.64	74.00	24.36	V	15.60	34.04
17854.00	50.45	74.00	23.55	H	17.60	32.85

Set.1 Charging mode /FM receiver mode / Average detector

Frequency(MHz)	Result(dBuV/m)	Limit (dB μ V/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dB μ V)
12027.5	32.9	54	21.1	H	9.8	23.10
13324.5	33.35	54	20.65	H	11.5	21.85
14084.5	34.18	54	19.82	H	12.6	21.58
15110	35.08	54	18.92	H	14.4	20.68
16391	36.72	54	17.28	V	16.3	20.42
17854	37.85	54	16.15	H	17.6	20.25

Set.2 Camera mode / Charging mode / Peak detector

Frequency(MHz)	Result(dBuV/m)	Limit (dB μ V/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dB μ V)
12652.50	45.51	74.00	28.49	V	9.70	35.81
13488.50	45.38	74.00	28.62	V	10.00	35.38
14462.00	47.23	74.00	26.77	H	12.70	34.53
15909.50	49.53	74.00	24.47	V	14.90	34.63
16983.50	50.21	74.00	23.79	V	16.50	33.71
17895.00	50.66	74.00	23.34	H	17.60	33.06

Set.2 Camera mode / Charging mode / Average detector

Frequency(MHz)	Result(dBuV/m)	Limit (dB μ V/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dB μ V)
12652.5	33.1	54	20.9	V	9.7	23.40
13488.5	32.68	54	21.32	V	10	22.68
14462	34.98	54	19.02	H	12.7	22.28
15909.5	36.6	54	17.4	V	14.9	21.70
16983.5	37.83	54	16.17	V	16.5	21.33
17895	38.18	54	15.82	H	17.6	20.58

Set.2 Charging mode /FM receiver mode /Peak detector

Frequency(MHz)	Result(dBuV/m)	Limit (dB μ V/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dB μ V)
12007.00	45.29	74.00	28.71	V	9.10	36.19
13622.50	45.48	74.00	28.52	H	10.10	35.38
14573.50	47.26	74.00	26.74	V	12.60	34.66
15896.50	48.70	74.00	25.30	V	14.80	33.90
17098.00	50.16	74.00	23.84	V	16.10	34.06
17890.50	51.37	74.00	22.63	V	17.70	33.67

Set.2 Charging mode /FM receiver mode / Average detector

Frequency(MHz)	Result(dBuV/m)	Limit (dB μ V/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dB μ V)
12007	32.74	54	21.26	V	9.1	23.64
13622.5	32.94	54	21.06	H	10.1	22.84
14573.5	34.52	54	19.48	V	12.6	21.92
15896.5	36.49	54	17.51	V	14.8	21.69
17098	37.29	54	16.71	V	16.1	21.19
17890.5	38.46	54	15.54	V	17.7	20.76

Set.3 Data transfer mode /PC to EUT/ Peak detector

Frequency(MHz)	Result(dBuV/m)	Limit (dB μ V/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dB μ V)
9725.00	43.41	74.00	30.59	V	6.00	37.41
11124.00	45.22	74.00	28.78	V	7.40	37.82
13050.50	45.76	74.00	28.24	V	10.00	35.76
14830.00	47.46	74.00	26.54	H	12.40	35.06
16370.00	49.94	74.00	24.06	V	15.30	34.64
17560.00	50.41	74.00	23.59	V	16.90	33.51

Set.3 Data transfer mode /PC to EUT/ Average detector

Frequency(MHz)	Result(dBuV/m)	Limit (dB μ V/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dB μ V)
9725	30.73	54	23.27	V	6	24.73
11124	32.2	54	21.8	V	7.4	24.80
13050.5	33.2	54	20.8	V	10	23.20
14830	34.54	54	19.46	H	12.4	22.14
16370	37.04	54	16.96	V	15.3	21.74
17560	37.92	54	16.08	V	16.9	21.02

Set.3 Data transfer mode /EUT to PC/ Peak detector

Frequency(MHz)	Result(dBuV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
9153.50	43.17	74.00	30.83	H	5.20	37.97
10264.00	44.01	74.00	29.99	V	6.80	37.21
11732.00	45.99	74.00	28.01	V	8.90	37.09
13143.50	46.83	74.00	27.17	H	9.90	36.93
15261.00	47.88	74.00	26.12	H	13.50	34.38
16707.50	50.30	74.00	23.70	V	16.30	34.00

Set.3 Data transfer mode /EUT to PC/ Average detector

Frequency(MHz)	Result(dBuV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
9153.50	30.44	54.00	23.56	H	5.20	25.24
10264.00	31.79	54.00	22.21	V	6.80	24.99
11732.00	32.98	54.00	21.02	V	8.90	24.08
13143.50	32.85	54.00	21.15	H	9.90	22.95
15261.00	35.29	54.00	18.71	H	13.50	21.79
16707.50	37.65	54.00	16.35	V	16.30	21.35

Set.3 Data transfer mode /TF Card /PC to TF Card/Peak detector

Frequency(MHz)	Result(dBuV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
9060.00	43.31	74.00	30.69	H	5.40	37.91
10451.50	43.96	74.00	30.04	V	6.60	37.36
12280.50	45.66	74.00	28.35	V	9.40	36.26
14265.50	47.12	74.00	26.88	H	12.70	34.42
15481.00	48.10	74.00	25.90	H	13.70	34.40
17025.50	50.02	74.00	23.98	V	16.30	33.72

Set.3 Data transfer mode /TF Card /PC to TF Card /Average detector

Frequency(MHz)	Result(dBuV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
9060.00	30.94	54.00	23.06	H	5.40	25.54
10451.50	31.41	54.00	22.59	V	6.60	24.81
12280.50	33.39	54.00	20.61	V	9.40	23.99
14265.50	34.68	54.00	19.32	H	12.70	21.98
15481.00	35.27	54.00	18.73	H	13.70	21.57
17025.50	37.52	54.00	16.48	V	16.30	21.22

Set.3 Data transfer mode /TF Card /TF Card to PC/Peak detector

Frequency(MHz)	Result(dBuV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
10274.00	44.49	74.00	29.51	V	6.80	37.69
11383.50	45.23	74.00	28.77	V	7.50	37.73
12687.50	46.59	74.00	27.41	V	9.90	36.69
14259.00	47.27	74.00	26.73	V	12.70	34.57
15918.50	48.81	74.00	25.19	H	14.80	34.01
17437.00	50.22	74.00	23.78	V	16.80	33.42

Set.3 Data transfer mode /TF Card /TF Card to PC /Average detector

Frequency(MHz)	Result(dBuV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
10274.00	31.73	54.00	22.27	V	6.80	24.93
11383.50	31.89	54.00	22.11	V	7.50	24.39
12687.50	33.37	54.00	20.63	V	9.90	23.47
14259.00	34.63	54.00	19.37	V	12.70	21.93
15918.50	36.30	54.00	17.70	H	14.80	21.50
17437.00	37.72	54.00	16.28	V	16.80	20.92

Set.4 Data transfer mode /PC to EUT/Peak detector

Frequency(MHz)	Result(dBuV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
9857.50	44.51	74.00	29.49	H	6.50	38.01
10872.50	44.06	74.00	29.94	H	7.20	36.86
11848.50	45.43	74.00	28.57	H	9.00	36.43
13488.00	45.42	74.00	28.58	H	10.10	35.32
15220.00	48.21	74.00	25.79	V	13.40	34.81
17502.50	50.56	74.00	23.44	H	16.60	33.96

Set.4 Data transfer mode /PC to EUT/ Average detector

Frequency(MHz)	Result(dBuV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
9857.50	31.49	54.00	22.51	H	6.50	24.99
10872.50	31.74	54.00	22.26	H	7.20	24.54
11848.50	32.86	54.00	21.14	H	9.00	23.86
13488.00	32.73	54.00	21.27	H	10.10	22.63
15220.00	35.18	54.00	18.82	V	13.40	21.78
17502.50	37.79	54.00	16.21	H	16.60	21.19

Set.4 Data transfer mode /EUT to PC/Peak detector

Frequency(MHz)	Result(dBuV/m)	Limit (dB μ V/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dB μ V)
9443.50	43.36	74.00	30.64	V	5.20	38.16
10641.00	44.75	74.00	29.25	V	7.00	37.75
11919.50	46.01	74.00	27.99	H	9.00	37.01
13368.50	46.20	74.00	27.80	H	10.10	36.10
15331.50	48.39	74.00	25.61	V	13.80	34.59
17173.50	49.52	74.00	24.48	H	16.00	33.52

Set.4 Data transfer mode /EUT to PC/ Average detector

Frequency(MHz)	Result(dBuV/m)	Limit (dB μ V/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dB μ V)
9443.50	30.60	54.00	23.40	V	5.20	25.40
10641.00	31.73	54.00	22.27	V	7.00	24.73
11919.50	33.05	54.00	20.95	H	9.00	24.05
13368.50	33.48	54.00	20.52	H	10.10	23.38
15331.50	35.52	54.00	18.48	V	13.80	21.72
17173.50	37.06	54.00	16.94	H	16.00	21.06

Set.4 Data transfer mode /TF Card /PC to TF Card/Peak detector

Frequency(MHz)	Result(dBuV/m)	Limit (dB μ V/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dB μ V)
9367.00	42.81	74.00	31.19	H	5.10	37.71
10624.00	44.16	74.00	29.84	V	6.90	37.26
12076.50	45.89	74.00	28.11	V	9.30	36.59
13725.00	45.74	74.00	28.26	V	10.30	35.44
14870.00	47.81	74.00	26.19	V	12.70	35.11
16854.00	50.60	74.00	23.40	H	16.30	34.30

Set.4 Data transfer mode /TF Card /PC to TF Card/Average detector

Frequency(MHz)	Result(dBuV/m)	Limit (dB μ V/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dB μ V)
9367.00	30.46	54.00	23.54	H	5.10	25.36
10624.00	31.74	54.00	22.26	V	6.90	24.84
12076.50	33.13	54.00	20.87	V	9.30	23.83
13725.00	33.23	54.00	20.77	V	10.30	22.93
14870.00	35.07	54.00	18.93	V	12.70	22.37
16854.00	37.49	54.00	16.51	H	16.30	21.19

Set.4 Data transfer mode /TF Card/ TF Card to PC/Peak detector

Frequency(MHz)	Result(dBuV/m)	Limit (dB μ V/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dB μ V)
8457.00	43.12	74.00	30.88	H	5.00	38.12
9784.00	44.21	74.00	29.79	V	6.20	38.01
11147.50	44.35	74.00	29.65	V	7.30	37.05
12535.50	46.01	74.00	27.99	V	9.70	36.31
14441.50	47.86	74.00	26.14	H	12.60	35.26
16930.00	49.92	74.00	24.08	H	16.20	33.72

Set.4 Data transfer mode /TF Card/TF Card to PC / Average detector

Frequency(MHz)	Result(dBuV/m)	Limit (dB μ V/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dB μ V)
8457.00	30.27	54.00	23.73	H	5.00	25.27
9784.00	31.35	54.00	22.65	V	6.20	25.15
11147.50	31.74	54.00	22.26	V	7.30	24.44
12535.50	33.38	54.00	20.62	V	9.70	23.68
14441.50	34.84	54.00	19.16	H	12.60	22.24
16930.00	37.41	54.00	16.59	H	16.20	21.21

Camera mode / Charging mode: Set 1

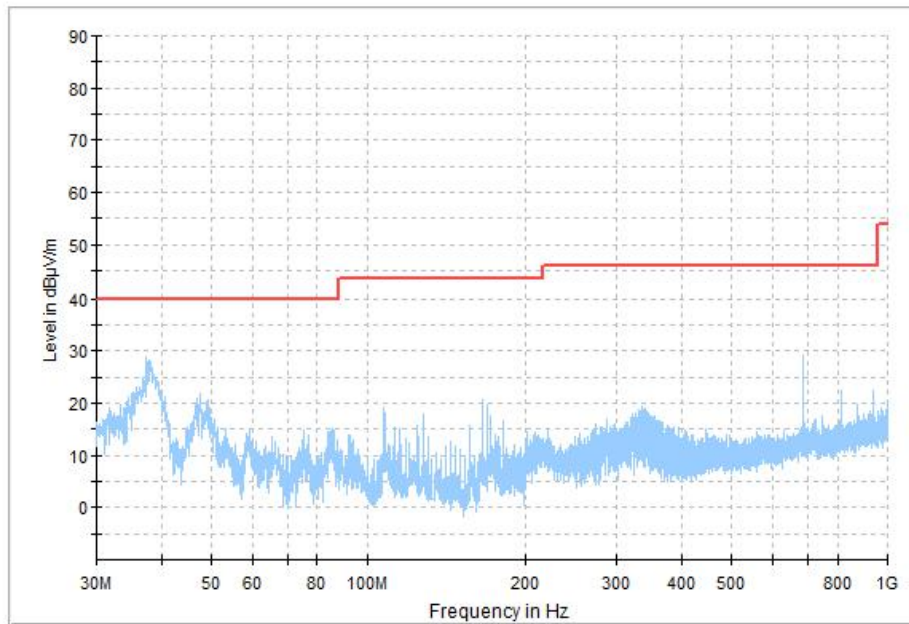


Figure A.1 Radiated Emission from 30MHz to 1GHz

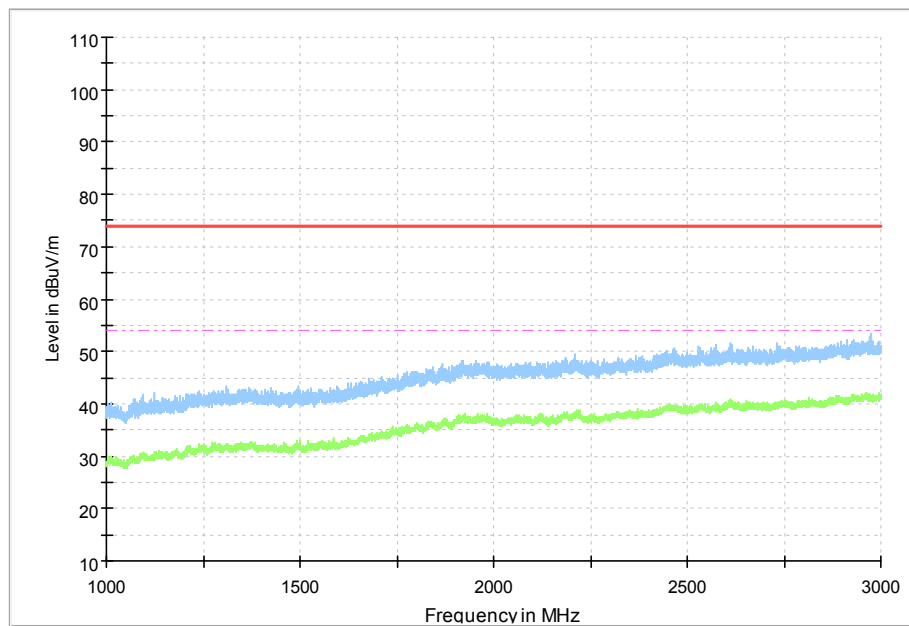


Figure A.2 Radiated Emission from 1GHz to 3GHz

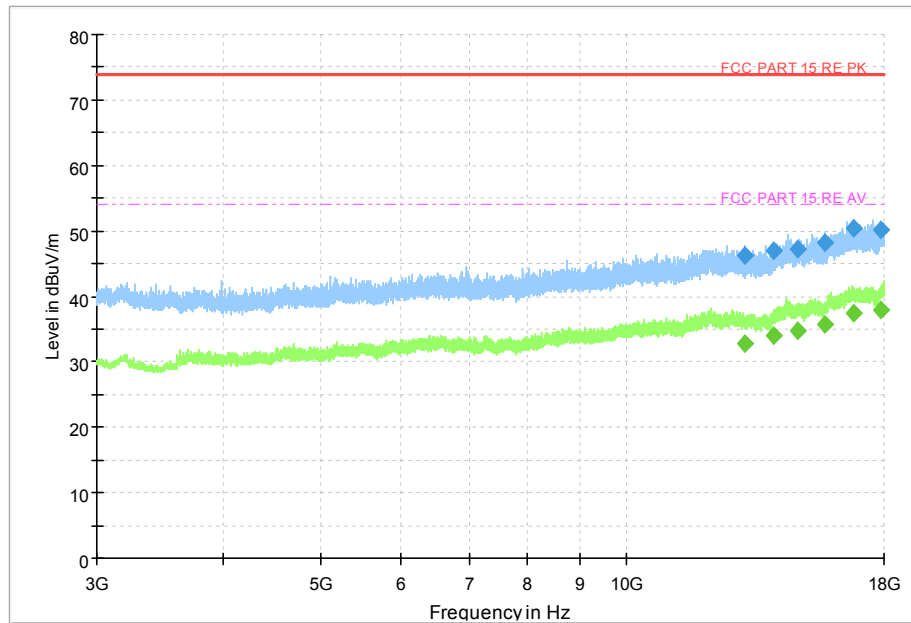


Figure A.3 Radiated Emission from 3GHz to 18GHz

Charging mode/FM receiver mode: Set 1

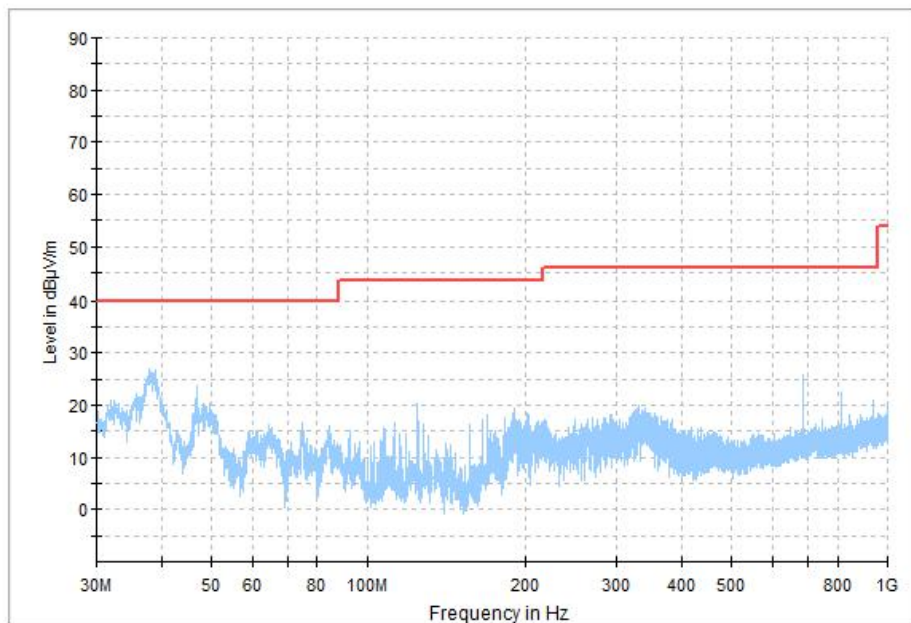


Figure A.4 Radiated Emission from 30MHz to 1GHz

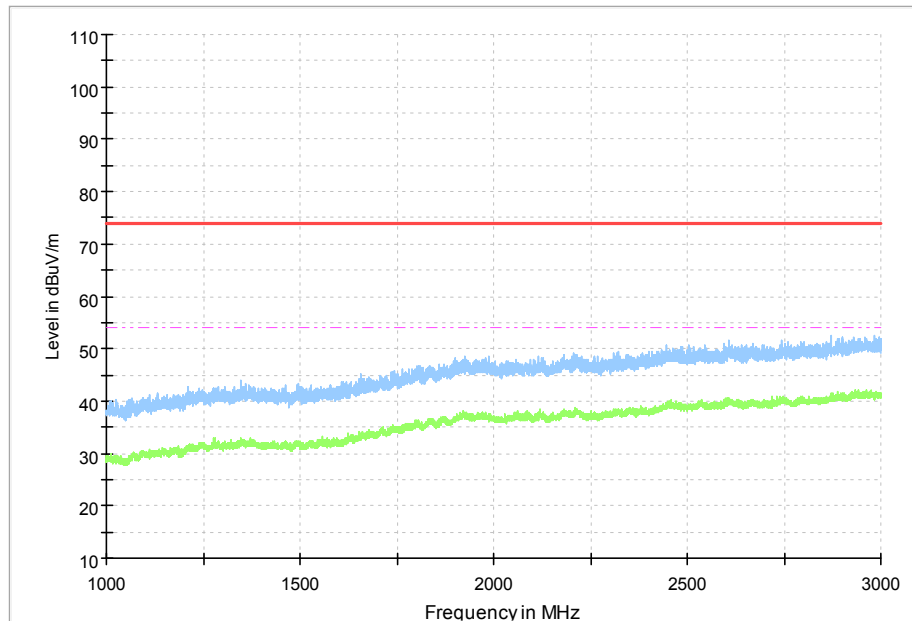


Figure A.5 Radiated Emission from 1GHz to 3GHz

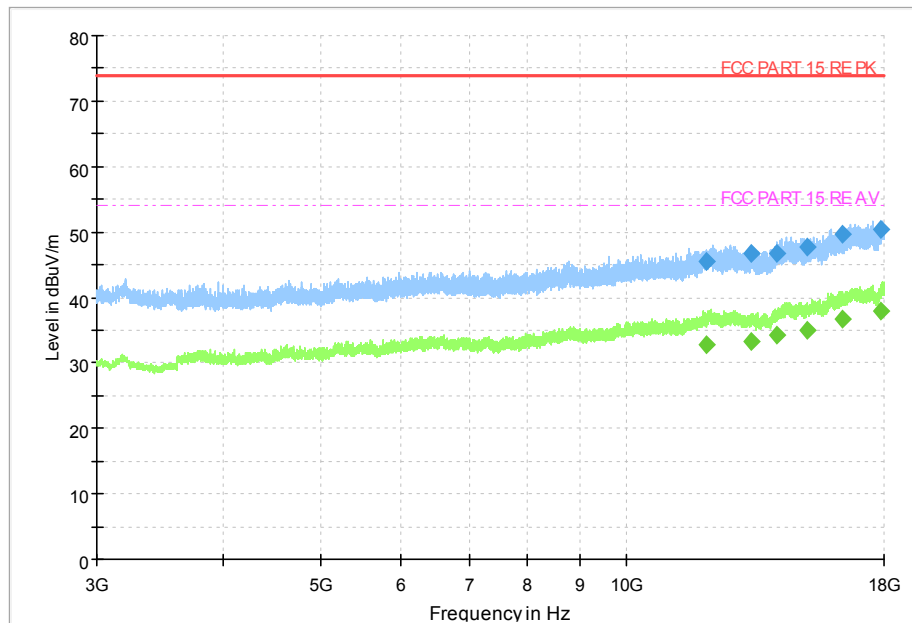


Figure A.6 Radiated Emission from 3GHz to 18GHz

Camera mode / Charging mode: Set 2

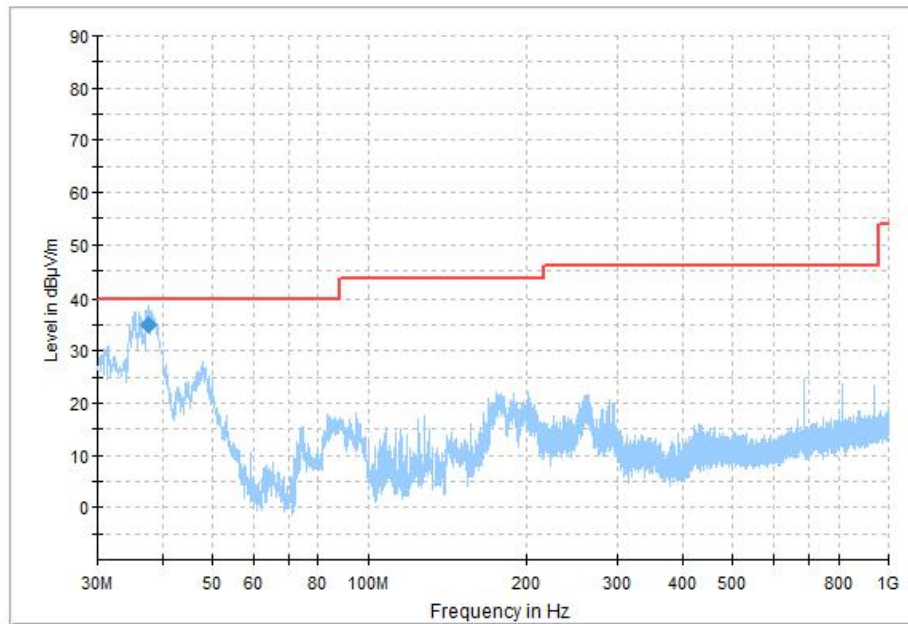


Figure A.7 Radiated Emission from 30MHz to 1GHz

Final_Result_QPK

Frequency(MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
37.58	34.85	40.00	5.15	V	-27.70	62.55

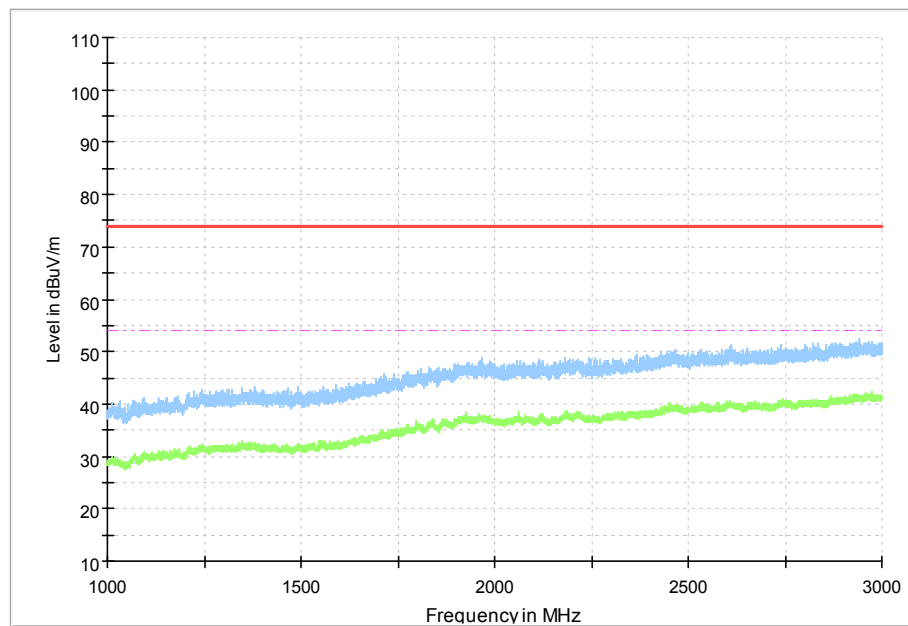


Figure A.8 Radiated Emission from 1GHz to 3GHz

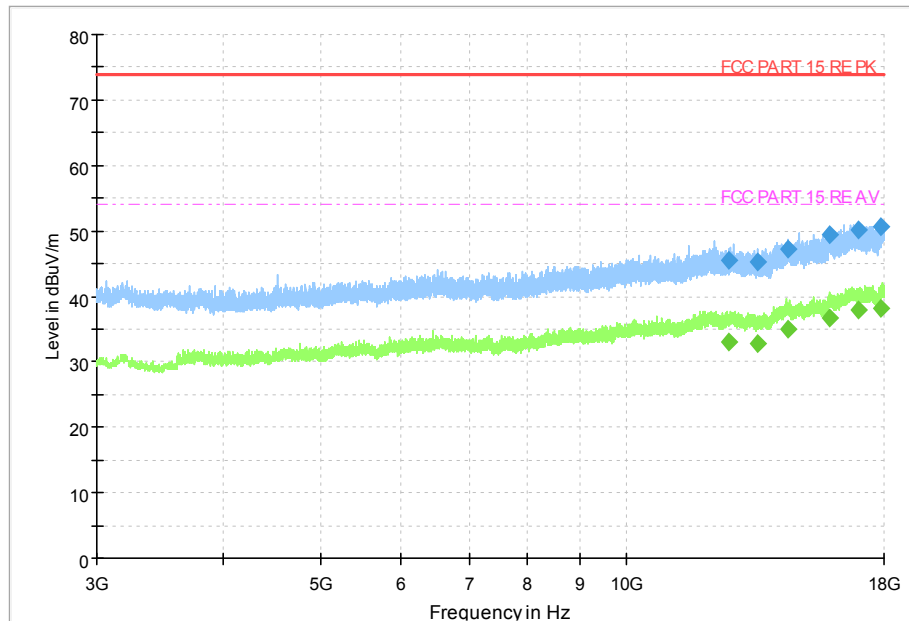


Figure A.9 Radiated Emission from 3GHz to 18GHz

Charging mode/FM receiver mode: Set 2

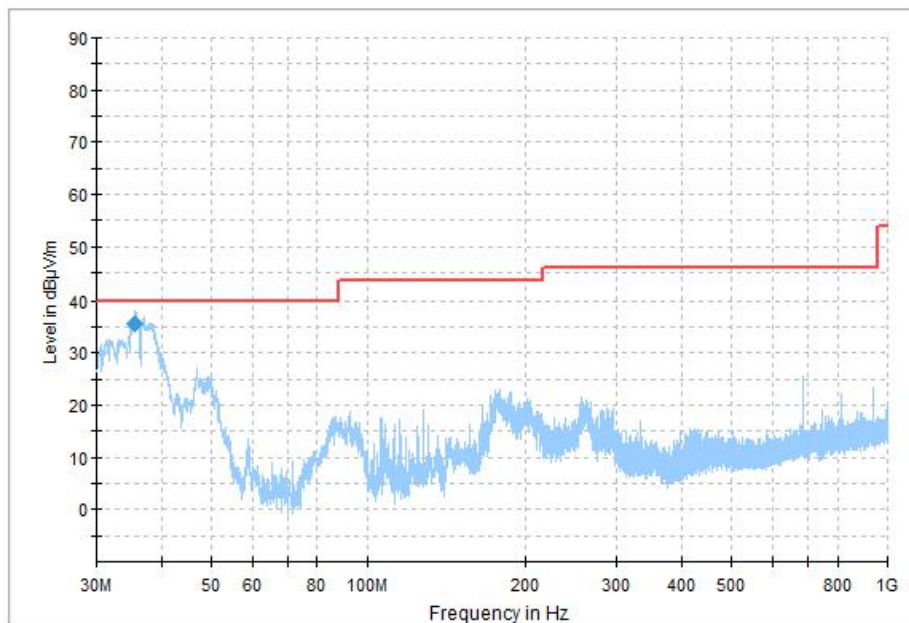


Figure A.10 Radiated Emission from 30MHz to 1GHz

Final_Result_QPK

Frequency(MHz)	QuasiPeak (dBuV/m)	Limit (dBuV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBuV)
35.68	35.55	40.00	4.45	V	-26.90	62.45

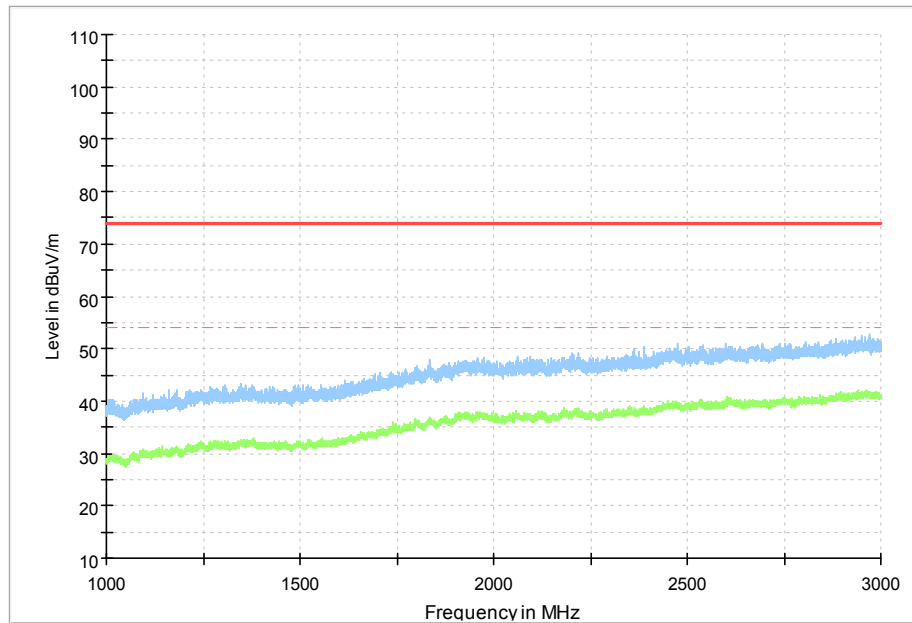


Figure A.11 Radiated Emission from 1GHz to 3GHz

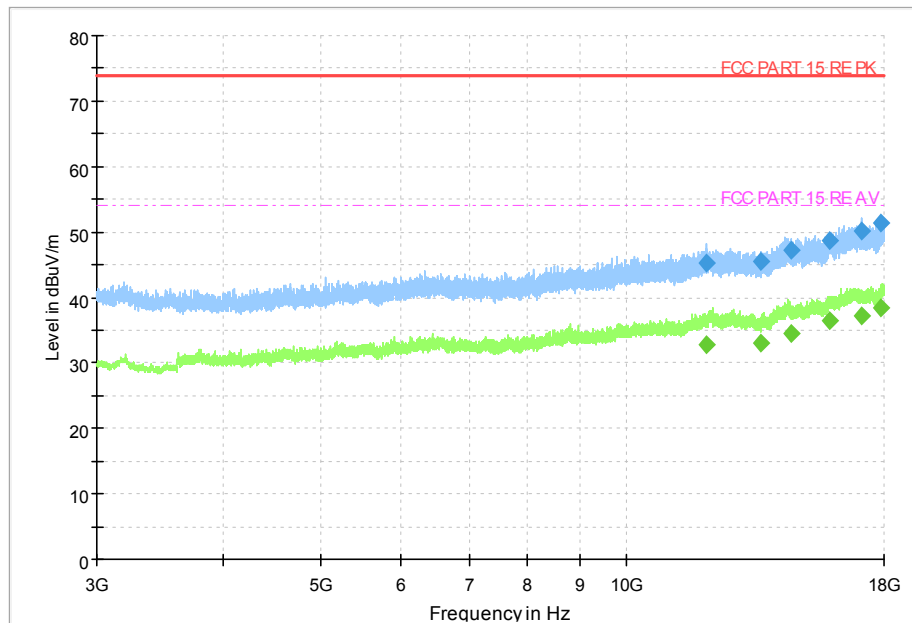


Figure A.12 Radiated Emission from 3GHz to 18GHz

Data transfer mode/PC to EUT: Set 3

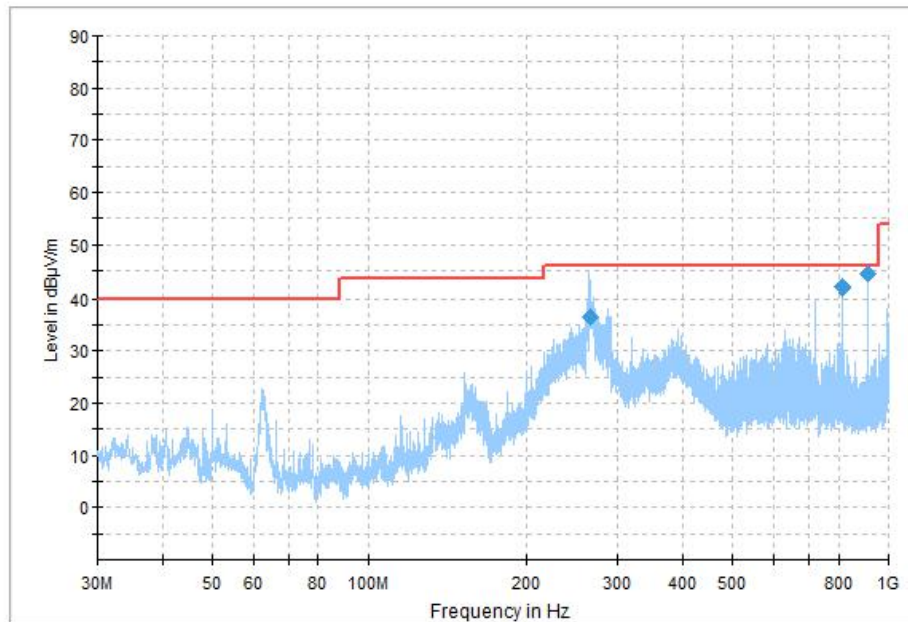


Figure A.13 Radiated Emission from 30MHz to 1GHz

Final_Result_QPK

Frequency(MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
265.00	36.40	46.00	9.60	H	-30.60	67.00
816.00	41.84	46.00	4.16	H	-18.60	60.44
911.98	44.57	46.00	1.43	H	-17.20	61.77

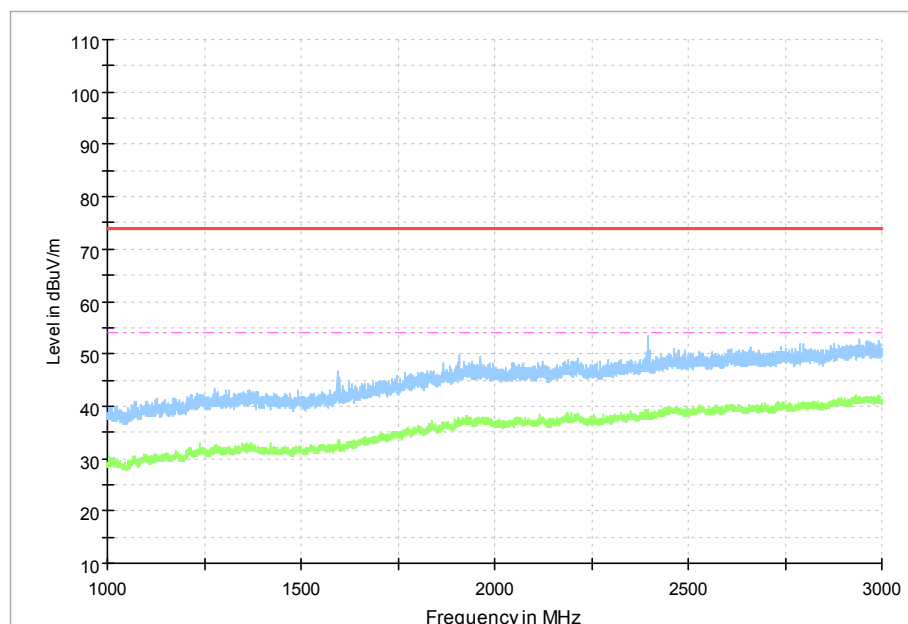


Figure A.14 Radiated Emission from 1GHz to 3GHz

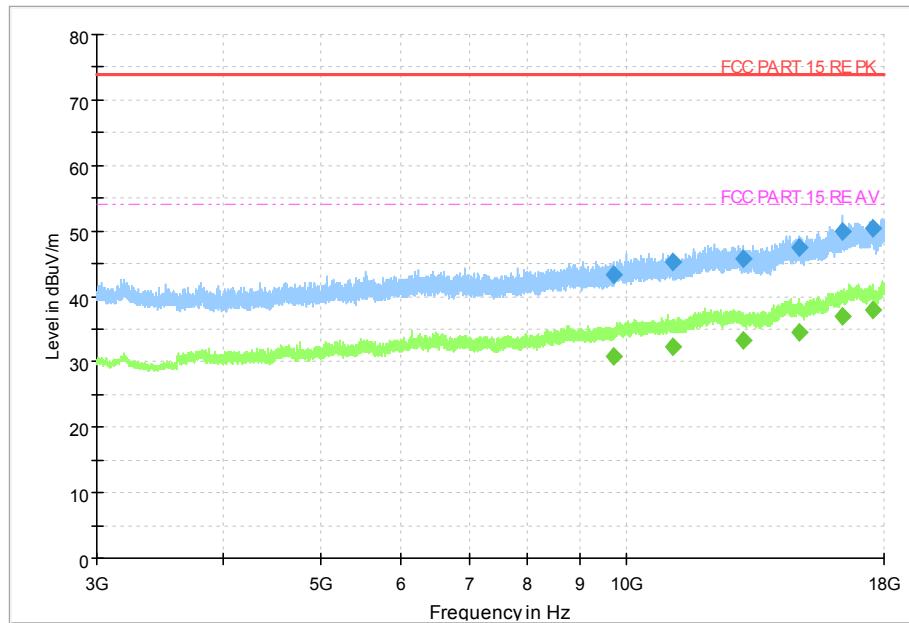


Figure A.15 Radiated Emission from 3GHz to 18GHz

Data transfer mode/EUT to PC: Set 3

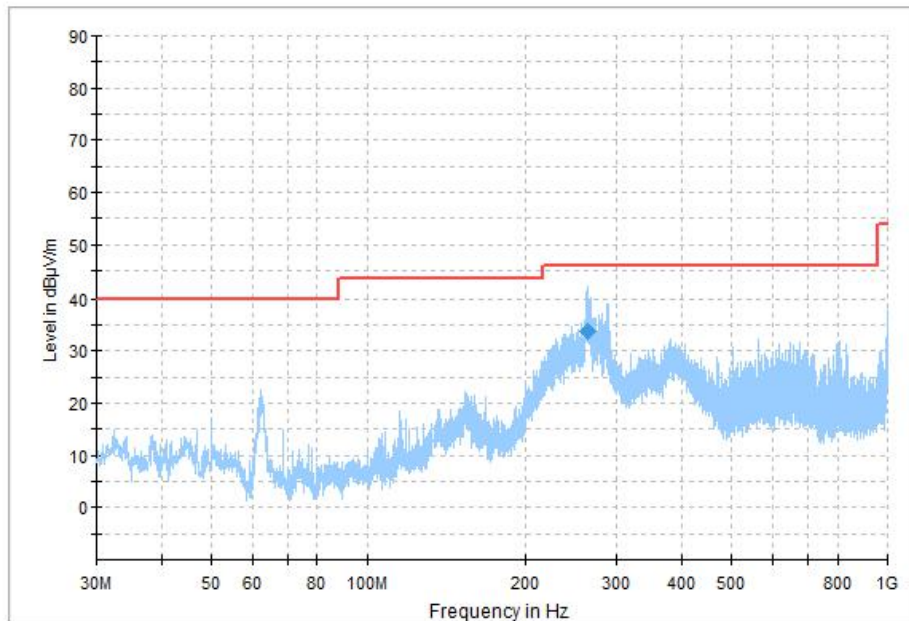


Figure A.16 Radiated Emission from 30MHz to 1GHz

Final_Result_QPK

Frequency(MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
264.52	33.62	46.00	12.38	H	-30.60	64.22

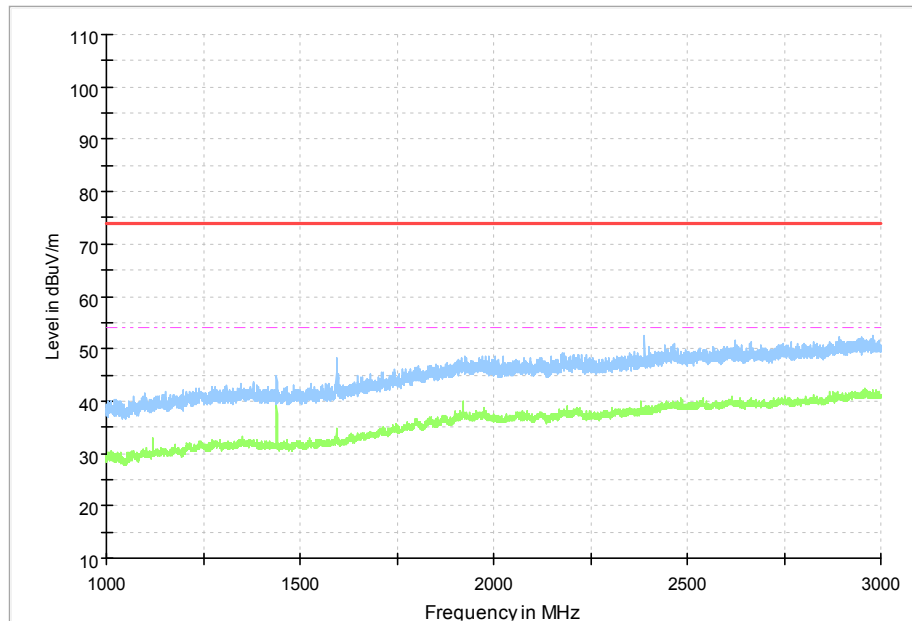


Figure A.17 Radiated Emission from 1GHz to 3GHz

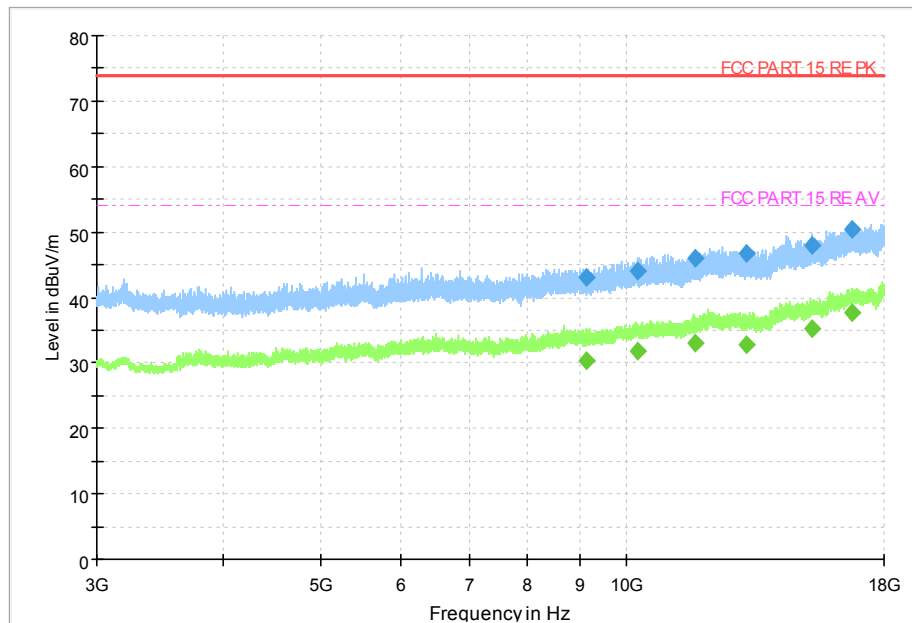


Figure A.18 Radiated Emission from 3GHz to 18GHz

Data transfer mode/TF Card Mode/ PC to TF Card: Set 3

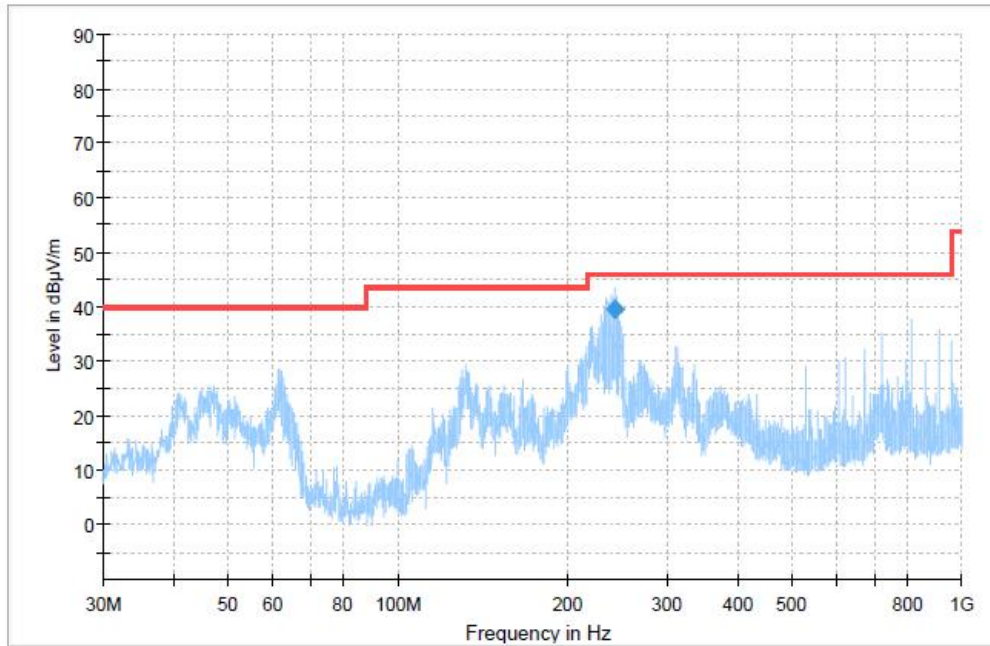


Figure A.19 Radiated Emission from 30MHz to 1GHz

Final_Result_QPK

Frequency(MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
242.09	39.47	46.00	6.53	H	-31.30	70.77

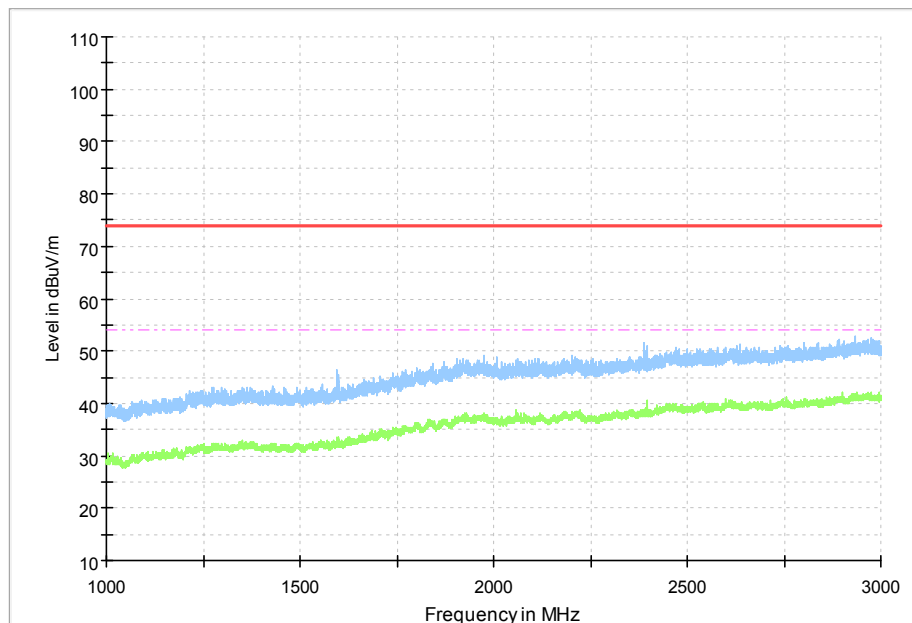


Figure A.20 Radiated Emission from 1GHz to 3GHz

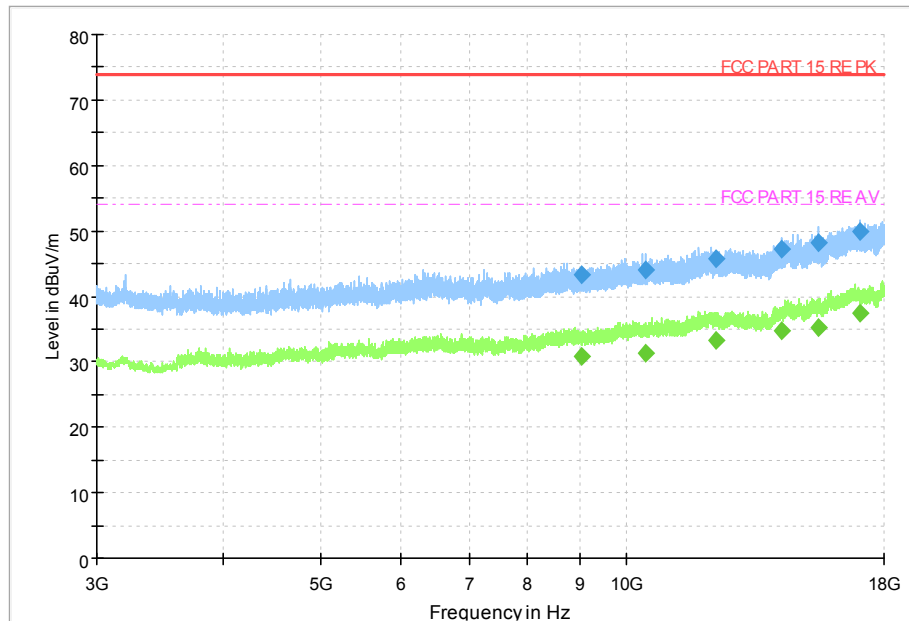


Figure A.21 Radiated Emission from 3GHz to 18GHz

Data transfer mode/TF Card Mode/TF Card to PC: Set 3

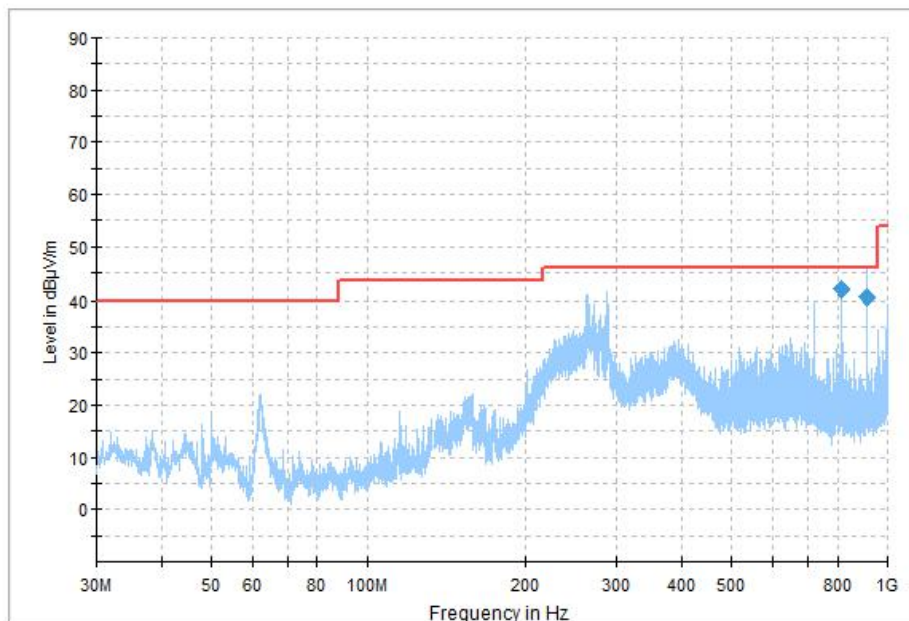


Figure A.22 Radiated Emission from 30MHz to 1GHz

Final_Result_QPK

Frequency(MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
816.00	41.84	46.00	4.16	H	-18.60	60.44
911.74	40.56	46.00	5.44	H	-17.20	57.76

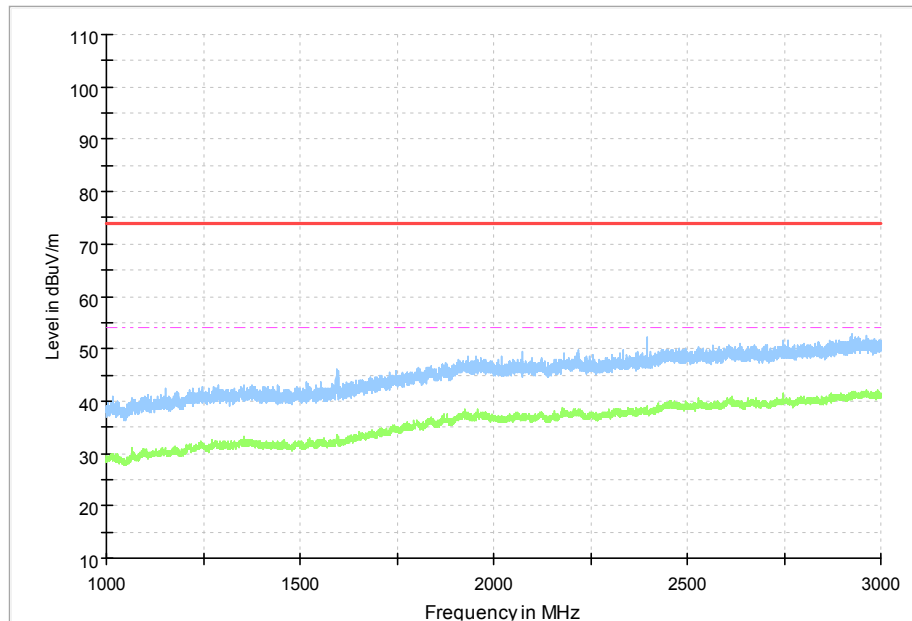


Figure A.23 Radiated Emission from 1GHz to 3GHz

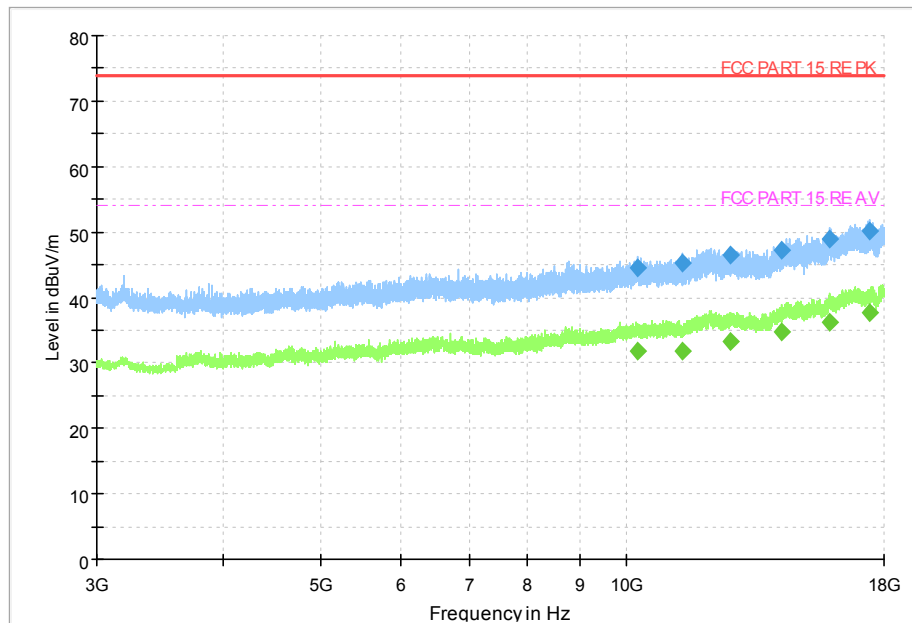


Figure A.24 Radiated Emission from 3GHz to 18GHz

Data transfer mode/PC to EUT: Set 4

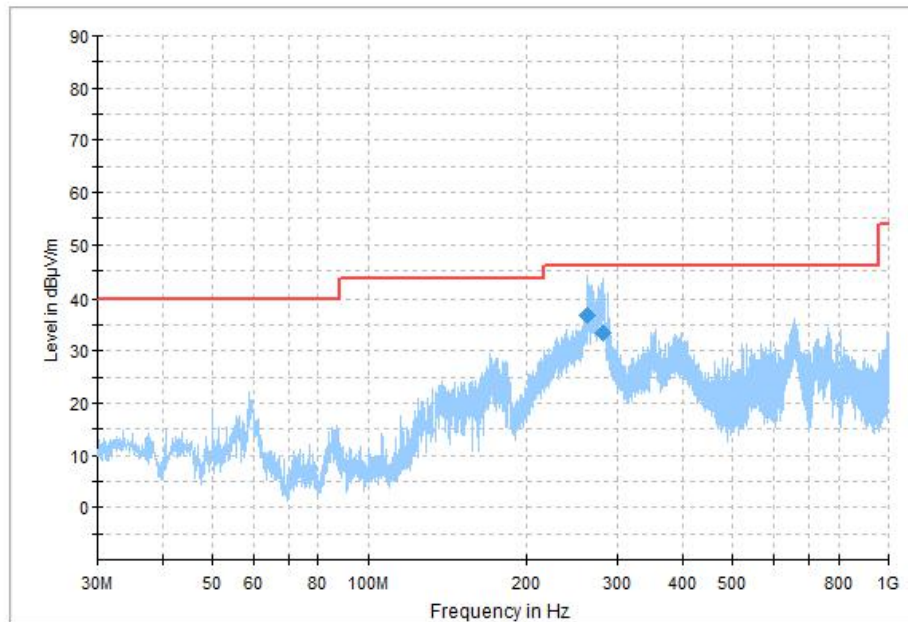


Figure A.25 Radiated Emission from 30MHz to 1GHz

Final_Result_QPK

Frequency(MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
262.65	36.87	46.00	9.13	H	-30.50	67.37
280.58	33.28	46.00	12.72	H	-30.00	63.28

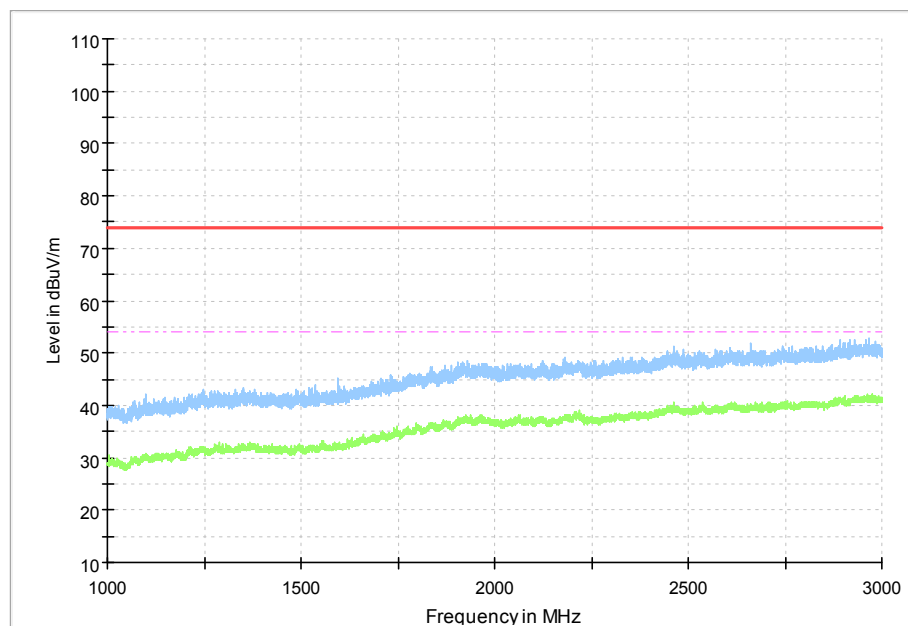


Figure A.26 Radiated Emission from 1GHz to 3GHz

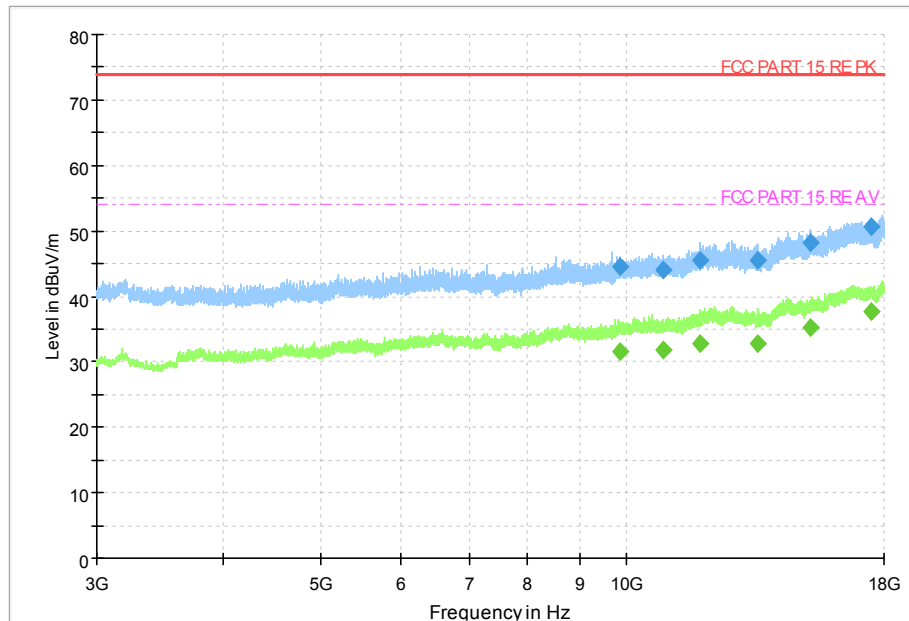


Figure A.27 Radiated Emission from 3GHz to 18GHz

Data transfer mode/EUT to PC: Set 4

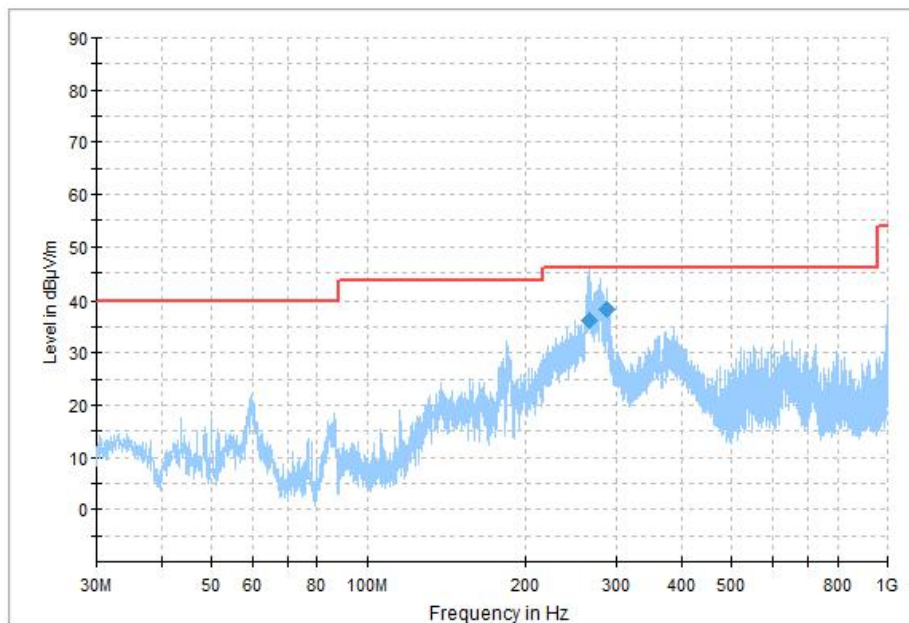


Figure A.28 Radiated Emission from 30MHz to 1GHz

Final_Result_QPK

Frequency(MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBμV)
265.20	36.14	46.00	9.86	H	-30.60	66.74
287.47	38.40	46.00	7.60	H	-29.60	68.00

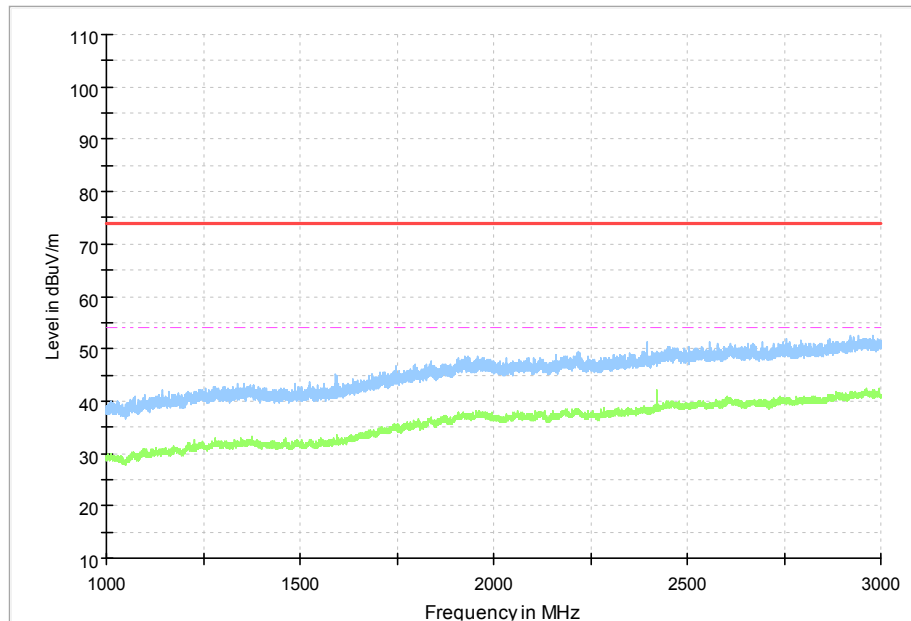


Figure A.29 Radiated Emission from 1GHz to 3GHz

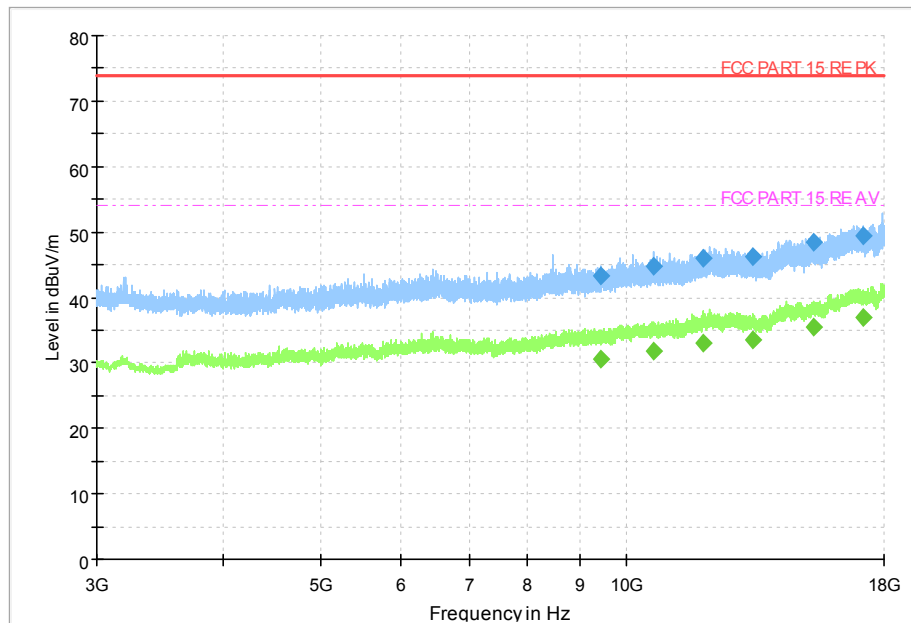


Figure A.30 Radiated Emission from 3GHz to 18GHz

Data transfer mode/TF Card Mode/ PC to TF Card: Set 4

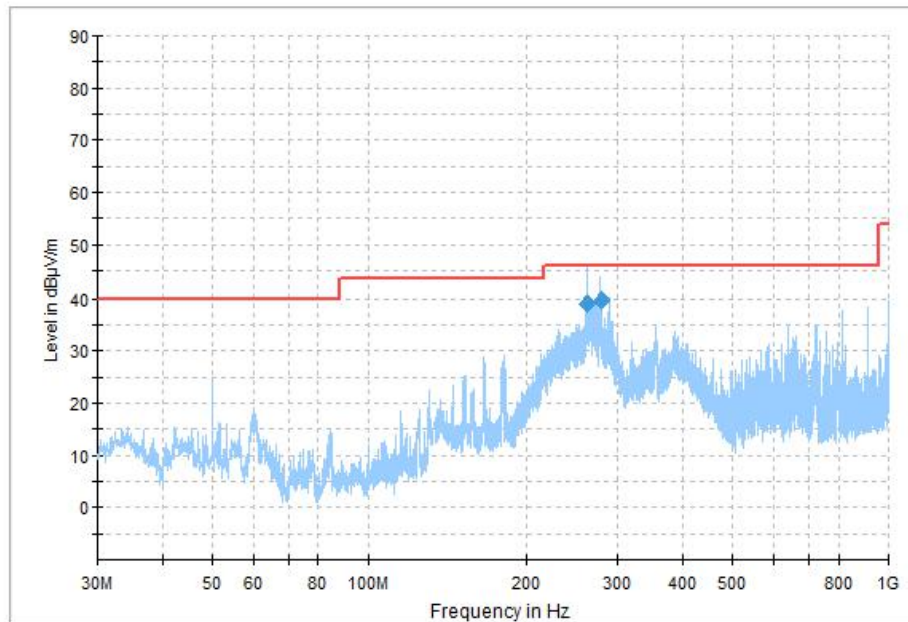


Figure A.31 Radiated Emission from 30MHz to 1GHz

Final_Result_QPK

Frequency(MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
261.59	38.93	46.00	7.07	H	-30.50	69.43
278.55	39.40	46.00	6.60	H	-30.10	69.50

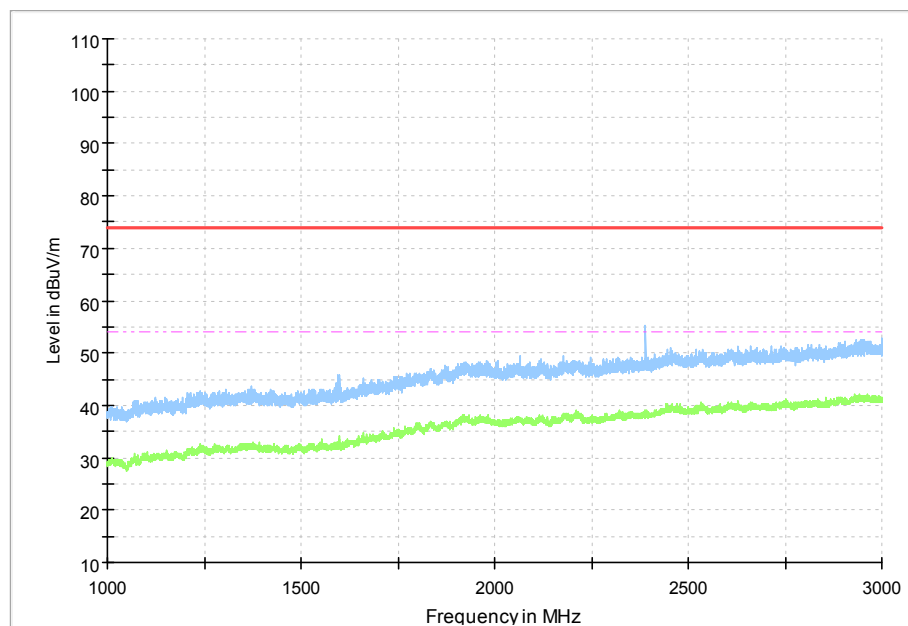


Figure A.32 Radiated Emission from 1GHz to 3GHz

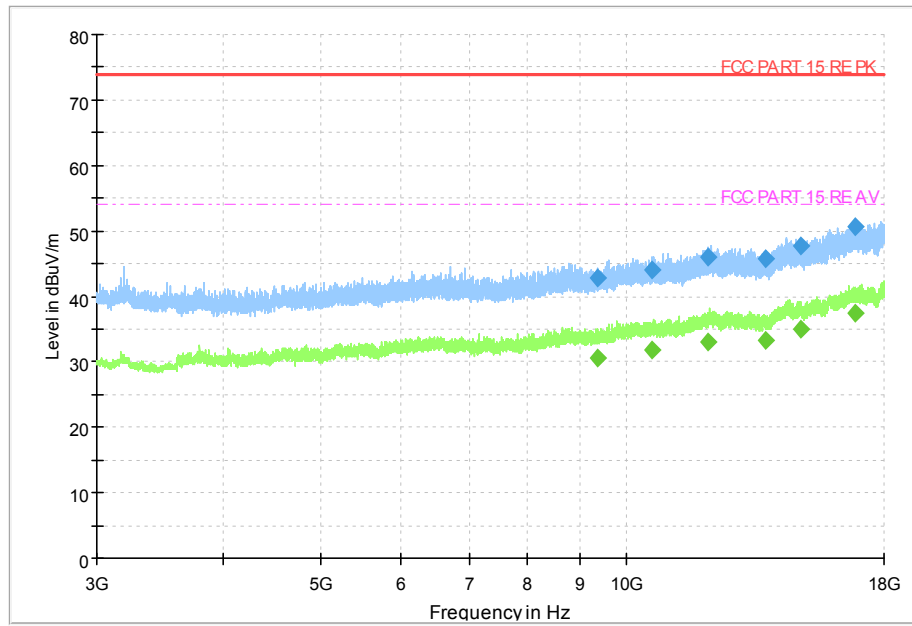


Figure A.33 Radiated Emission from 3GHz to 18GHz

Data transfer mode/TF Card Mode/TF Card to PC: Set 4

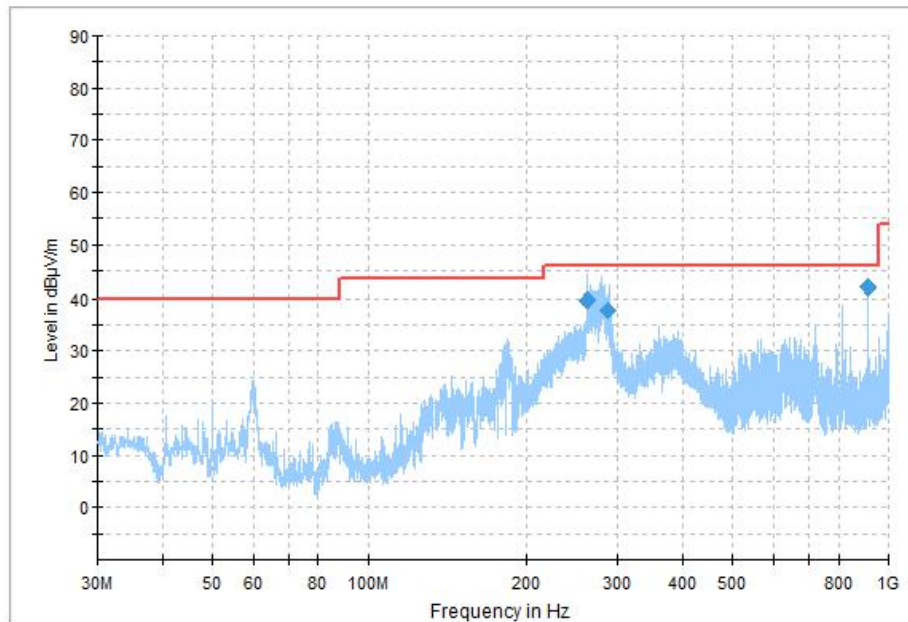


Figure A.34 Radiated Emission from 30MHz to 1GHz

Final_Result_QPK

Frequency(MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
262.75	39.69	46.00	6.31	H	-30.50	70.19
288.21	37.71	46.00	8.29	H	-29.60	67.31
912.02	42.08	46.00	3.92	H	-17.20	59.28

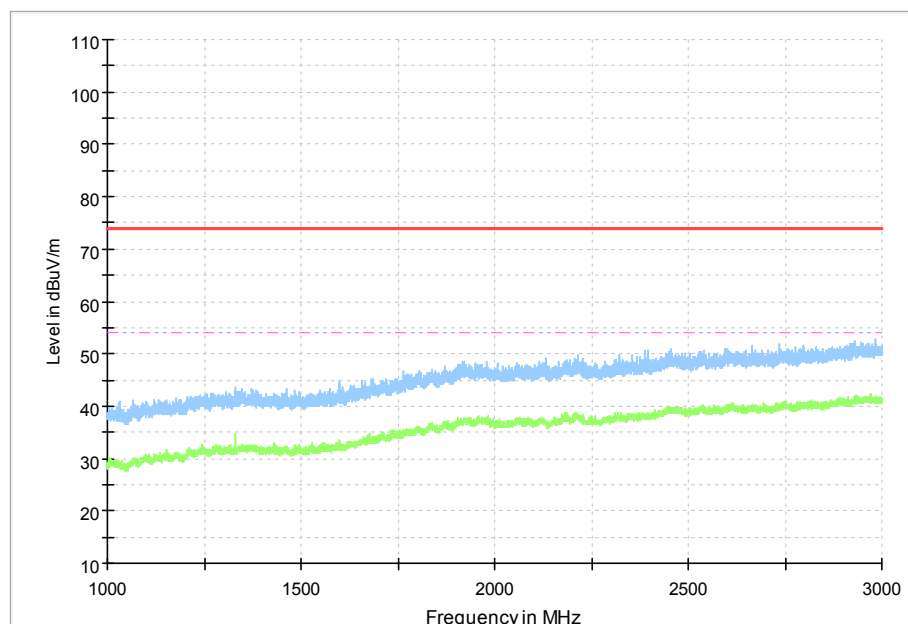


Figure A.35 Radiated Emission from 1GHz to 3GHz

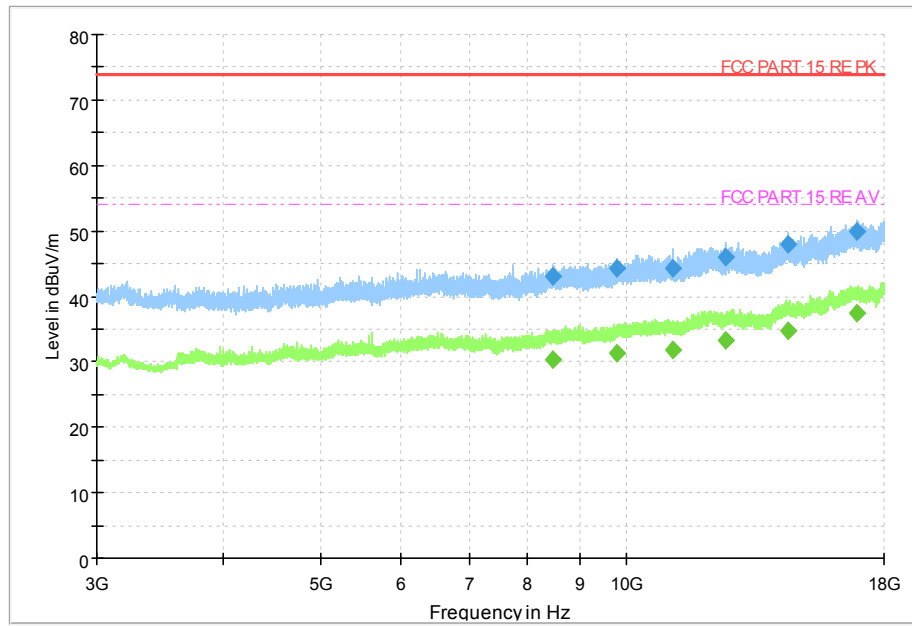


Figure A.36 Radiated Emission from 3GHz to 18GHz

B.2 Conducted Emission (§15.107(a))

Reference

FCC: CFR Part 15.107(a)

B.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 30MHz shall not exceed the limits. Tested in accordance with the procedures of ANSI C63.4 -2014, section 7.3.

B.2.2 EUT Operating Mode:

Camera mode/Charging mode: The EUT is keeping on taking photos.The MS is connected to a charger.

Charging mode/FM receiver mode: The MS is synchronized to SS, and able to respond to paging messages and incoming call. An established call has been released. The FM receiver function is on.The MS is connected to a charger.

Data transfer mode: The model of the PC is Lenovo ThinkPad E480, and the serial number of the PC is PF-0Z56NV. The software is used to let the PC keep on copying data to MS, reading and erasing the data after copy action was finished.

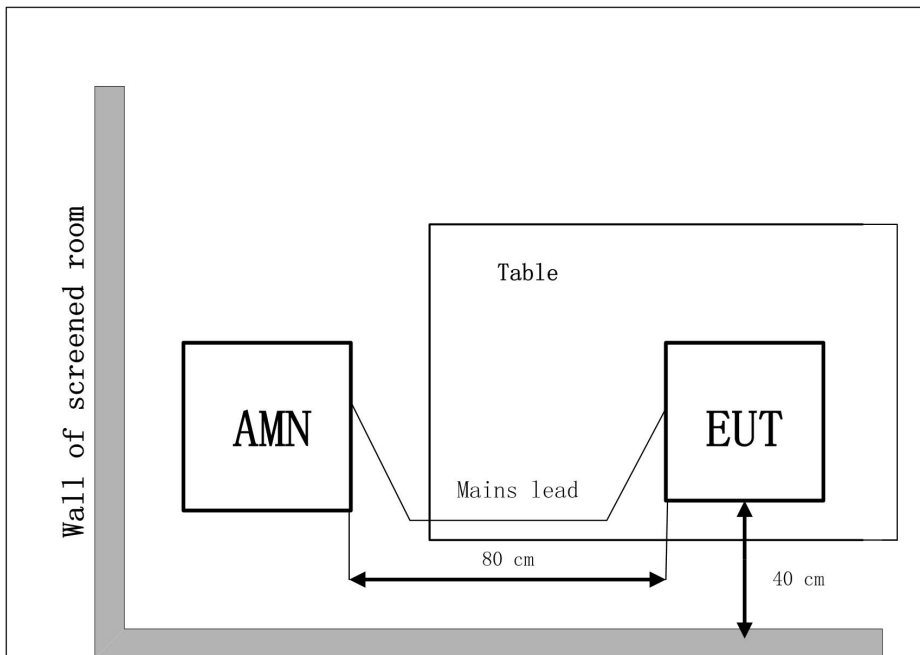
Data transfer mode/TF Card: The model of the PC is Lenovo ThinkPad E480, and the serial number of the PC is PF-0Z56NV. The software is used to let the PC keep on copying data to TF card, reading and erasing the data after copy action was finished.

B.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

B.2.4 Test set-up:



B.2.5 Test Condition in charging mode

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

RBW	Sweep Time(s)
9kHz	1

CE Measurement uncertainty: 3.00 dB (k=2)

B.2.6 Measurement Results

$$\text{QuasiPeak(dB}\mu\text{V) / Average(dB}\mu\text{V) = } P_{\text{Mea}} + \text{Corr}$$

Where

Corr: PathLoss + Voltage Division Factor

P_{Mea} : Measurement result on receiver.

Camera mode / Charging mode: Set 1
Voltage: 120V

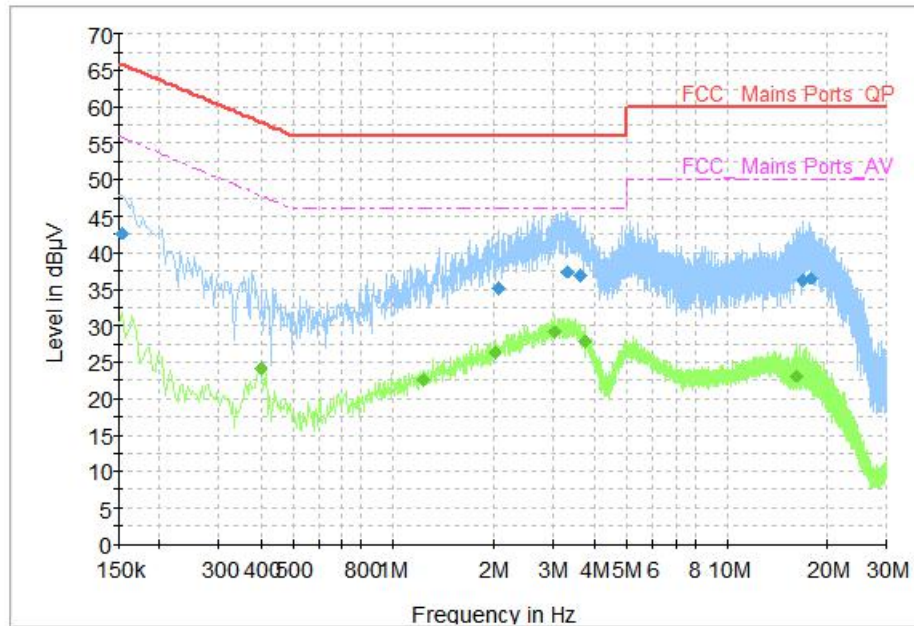


Figure B.1 Conducted Emission

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.154	42.73	65.78	23.05	L1	9.70	33.03
2.066	35.02	56.00	20.98	N	9.70	25.32
3.346	37.30	56.00	18.70	N	9.70	27.60
3.642	36.82	56.00	19.18	N	9.70	27.12
16.898	36.21	60.00	23.79	L1	10.20	26.01
17.862	36.45	60.00	23.55	L1	10.10	26.35

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.402	24.10	47.81	23.71	N	9.60	14.50
1.238	22.61	46.00	23.39	L1	9.70	12.91
2.018	26.24	46.00	19.76	L1	9.70	16.54
3.042	29.16	46.00	16.84	L1	9.70	19.46
3.726	27.82	46.00	18.18	L1	9.70	18.12
16.194	23.12	50.00	26.88	L1	10.10	13.02

Charging mode/FM receiver mode: Set 1
Voltage: 120V

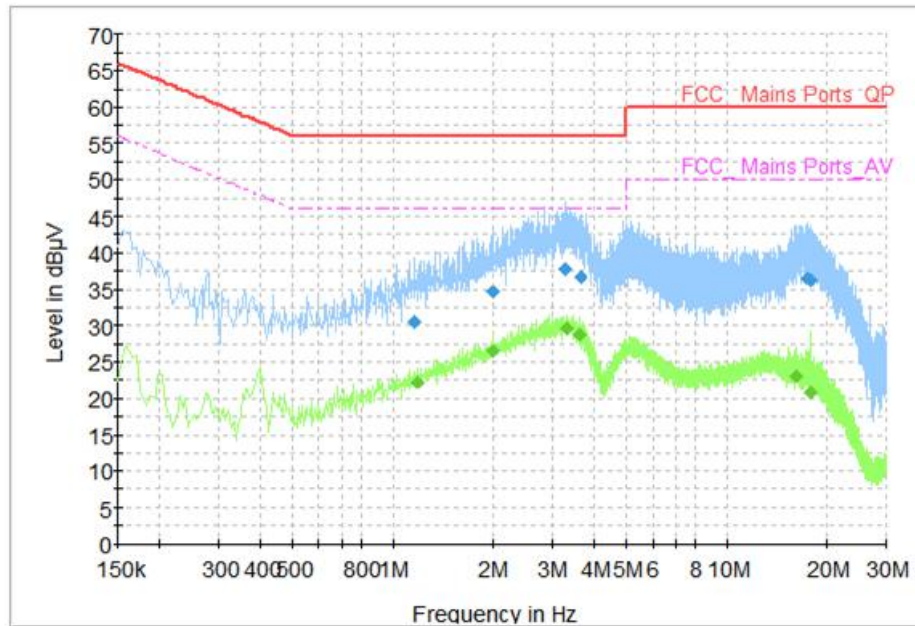


Figure B.2 Conducted Emission

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
1.158	30.52	56.00	25.48	N	9.70	20.82
1.998	34.49	56.00	21.51	N	9.70	24.79
3.274	37.71	56.00	18.29	N	9.70	28.01
3.626	36.69	56.00	19.31	N	9.70	26.99
17.370	36.56	60.00	23.44	L1	10.10	26.46
17.774	36.19	60.00	23.81	L1	10.10	26.09

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
1.186	22.15	46.00	23.85	L1	9.70	12.45
1.994	26.46	46.00	19.54	L1	9.70	16.76
3.298	29.67	46.00	16.33	L1	9.70	19.97
3.622	28.71	46.00	17.29	L1	9.70	19.01
16.110	23.08	50.00	26.92	L1	10.10	12.98
17.854	20.76	50.00	29.24	N	10.20	10.56

Camera mode / Charging mode: Set 2
Voltage: 120V

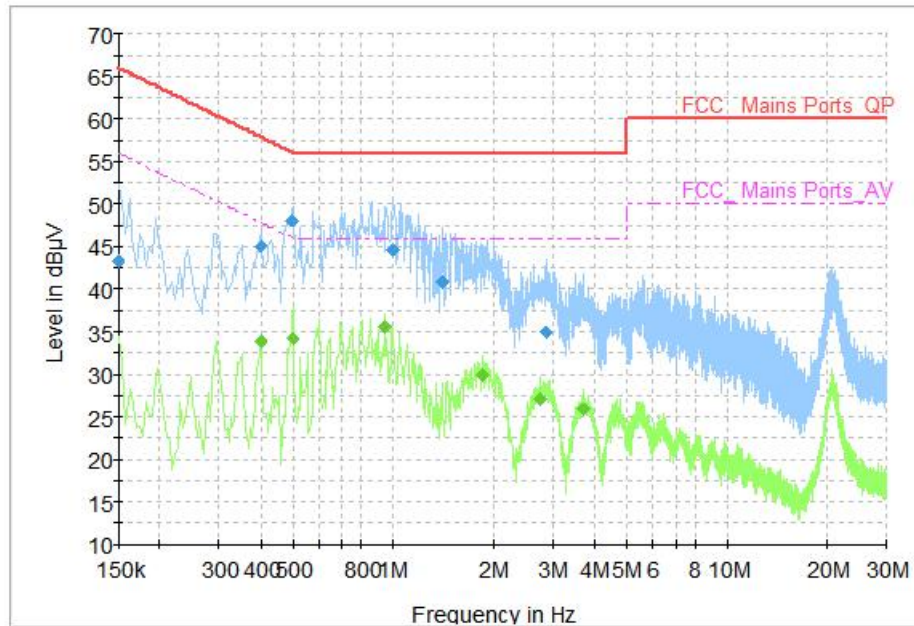


Figure B.3 Conducted Emission

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.150	43.23	66.00	22.77	N	9.60	33.63
0.402	44.99	57.81	12.82	L1	9.70	35.29
0.498	48.03	56.03	8.01	L1	9.70	38.33
1.002	44.64	56.00	11.36	L1	9.70	34.94
1.398	40.82	56.00	15.18	L1	9.70	31.12
2.862	35.01	56.00	20.99	L1	9.70	25.31

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.402	33.81	47.81	14.00	L1	9.70	24.11
0.502	34.11	46.00	11.89	L1	9.70	24.41
0.946	35.58	46.00	10.42	L1	9.70	25.88
1.854	29.95	46.00	16.05	L1	9.70	20.25
2.758	27.05	46.00	18.95	N	9.70	17.35
3.710	25.83	46.00	20.17	L1	9.70	16.13

Charging mode/FM receiver mode: Set 2
Voltage: 120V

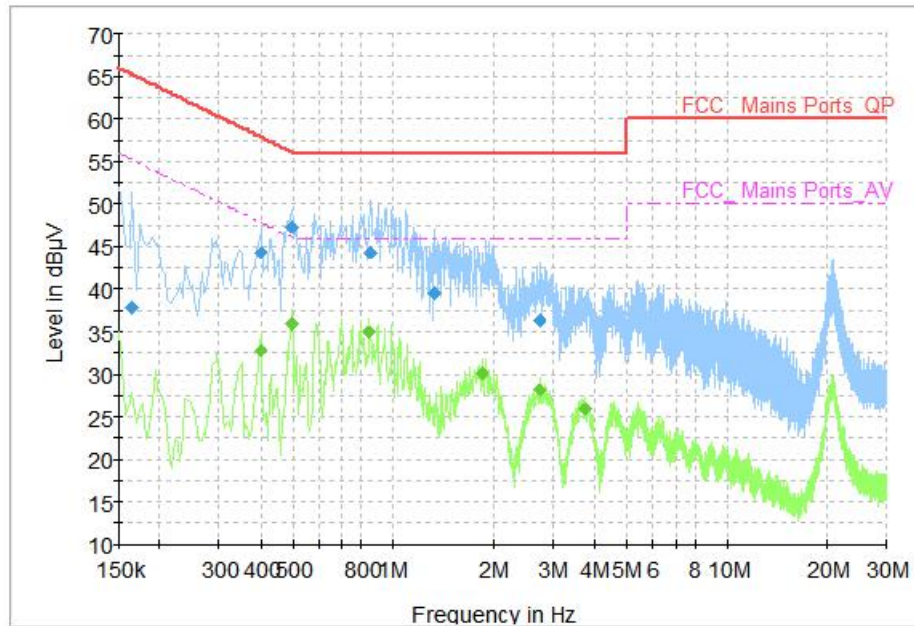


Figure B.4 Conducted Emission

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.166	37.76	65.16	27.40	N	9.60	28.16
0.402	44.37	57.81	13.44	L1	9.70	34.67
0.498	47.32	56.03	8.71	L1	9.70	37.62
0.854	44.26	56.00	11.74	L1	9.70	34.56
1.322	39.46	56.00	16.55	L1	9.70	29.76
2.742	36.23	56.00	19.77	L1	9.70	26.53

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.402	32.89	47.81	14.93	L1	9.70	23.19
0.498	36.04	46.03	10.00	L1	9.70	26.34
0.846	35.01	46.00	10.99	L1	9.70	25.31
1.846	30.11	46.00	15.89	L1	9.70	20.41
2.742	28.14	46.00	17.86	L1	9.70	18.44
3.734	25.87	46.00	20.13	L1	9.70	16.17

Data transfer mode/PC to EUT: Set 3
Voltage: 120V

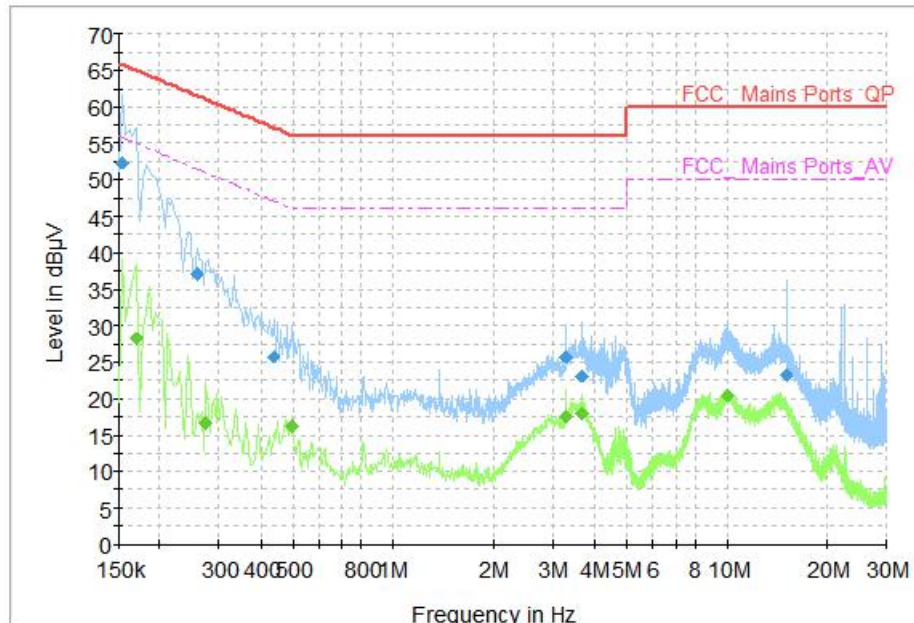


Figure B.5 Conducted Emission

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.154	52.28	65.78	13.50	N	9.60	42.68
0.258	36.95	61.50	24.55	L1	9.70	27.25
0.438	25.74	57.10	31.36	L1	9.70	16.04
3.294	25.83	56.00	30.17	L1	9.70	16.13
3.666	23.10	56.00	32.90	L1	9.70	13.40
15.002	23.33	60.00	36.67	N	10.00	13.33

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.170	28.20	54.96	26.76	L1	9.70	18.50
0.274	16.60	51.00	34.40	N	9.60	7.00
0.498	16.18	46.03	29.86	L1	9.70	6.48
3.294	17.50	46.00	28.50	L1	9.70	7.80
3.666	18.05	46.00	27.95	L1	9.70	8.35
10.078	20.50	50.00	29.50	L1	9.80	10.70

Data transfer mode/ EUT to PC: Set 3
Voltage: 120V

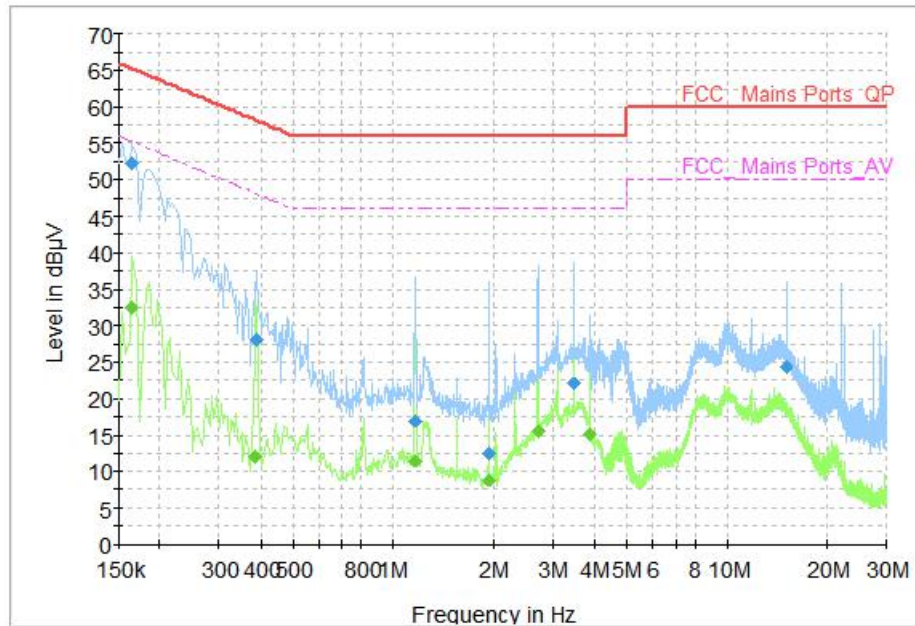


Figure B.6 Conducted Emission

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.166	52.14	65.16	13.01	L1	9.70	42.44
0.390	28.02	58.06	30.04	N	9.60	18.42
1.162	16.87	56.00	39.13	N	9.70	7.17
1.934	12.56	56.00	43.44	N	9.70	2.86
3.482	22.09	56.00	33.91	N	9.70	12.39
15.002	24.32	60.00	35.68	L1	10.10	14.22

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.166	32.47	55.16	22.69	N	9.60	22.87
0.386	12.03	48.15	36.12	N	9.60	2.43
1.162	11.53	46.00	34.47	N	9.70	1.83
1.934	8.83	46.00	37.17	N	9.70	-0.87
2.710	15.56	46.00	30.44	N	9.70	5.86
3.870	15.25	46.00	30.75	N	9.70	5.55

Data transfer mode//PC to TF Card: Set 3
Voltage: 120V

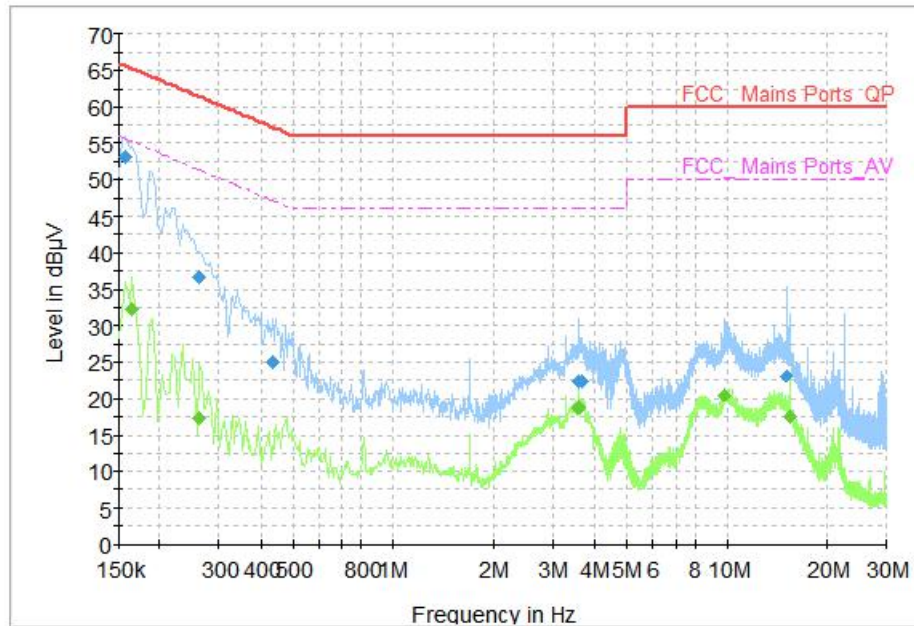


Figure B.7 Conducted Emission

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.158	53.09	65.57	12.48	L1	9.70	43.39
0.262	36.64	61.37	24.73	N	9.60	27.04
0.434	24.95	57.18	32.22	L1	9.70	15.25
3.598	22.47	56.00	33.53	L1	9.70	12.77
3.666	22.42	56.00	33.58	L1	9.70	12.72
14.998	23.05	60.00	36.95	N	10.00	13.05

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.166	32.33	55.16	22.82	N	9.60	22.73
0.262	17.22	51.37	34.15	N	9.60	7.62
3.598	18.73	46.00	27.27	L1	9.70	9.03
3.606	18.91	46.00	27.09	L1	9.70	9.21
9.842	20.40	50.00	29.60	L1	9.80	10.60
15.402	17.47	50.00	32.53	L1	10.10	7.37

Data transfer mode/TF Card to PC: Set 3
Voltage: 120V

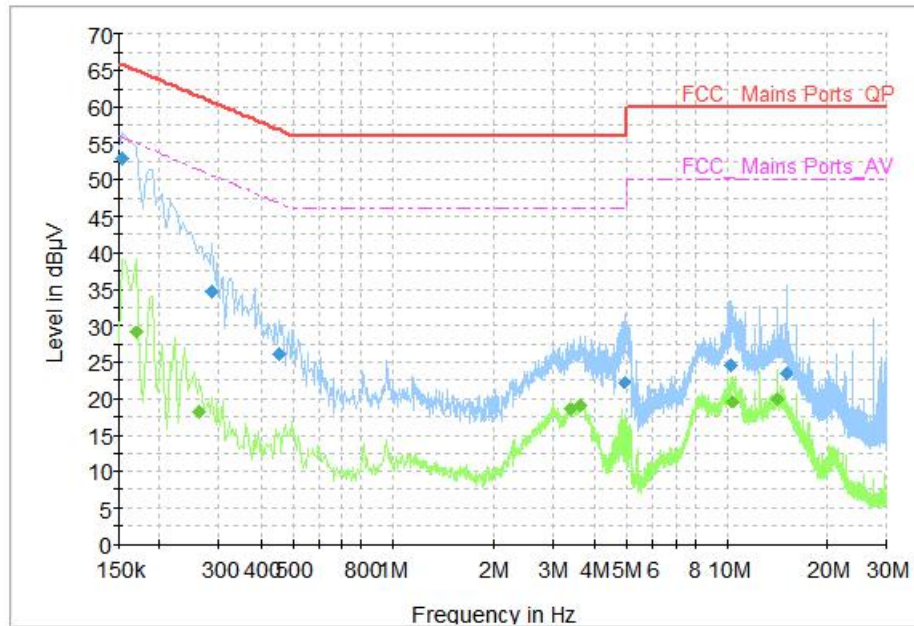


Figure B.8 Conducted Emission

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.154	52.85	65.78	12.93	L1	9.70	43.15
0.286	34.67	60.64	25.97	L1	9.70	24.97
0.454	26.11	56.80	30.69	L1	9.70	16.41
4.922	22.25	56.00	33.75	N	9.70	12.55
10.302	24.52	60.00	35.48	N	9.80	14.72
15.006	23.38	60.00	36.62	N	10.00	13.38

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.170	29.01	54.96	25.95	L1	9.70	19.31
0.262	18.10	51.37	33.27	L1	9.70	8.40
3.402	18.51	46.00	27.49	N	9.70	8.81
3.638	19.06	46.00	26.94	L1	9.70	9.36
10.342	19.63	50.00	30.37	N	9.80	9.83
14.126	19.91	50.00	30.09	N	9.90	10.01

Data transfer mode/PC to EUT: Set 4
Voltage: 120V

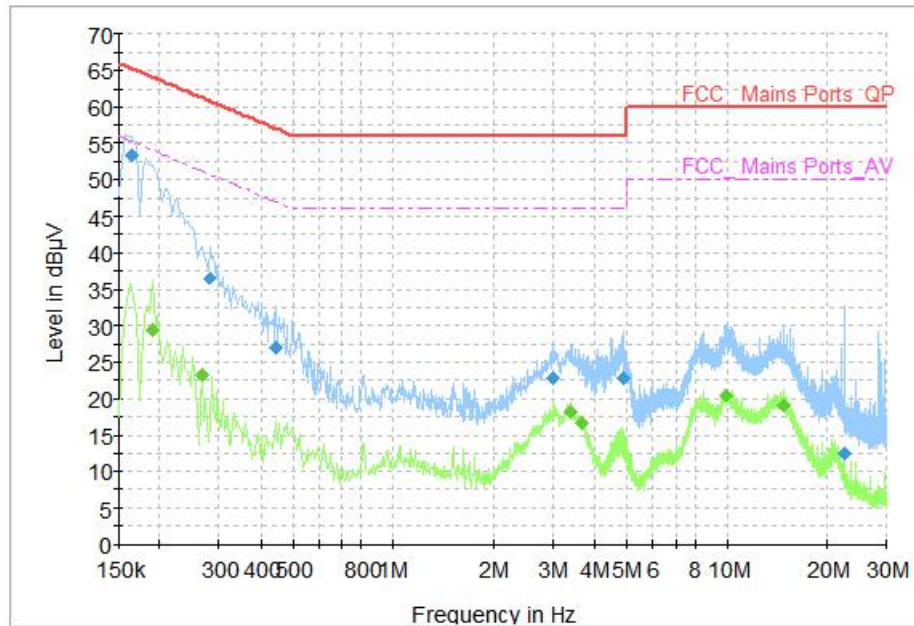


Figure B.9 Conducted Emission

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.166	53.38	65.16	11.77	N	9.60	43.78
0.282	36.56	60.76	24.19	L1	9.70	26.86
0.446	26.98	56.95	29.97	L1	9.70	17.28
3.030	22.67	56.00	33.33	N	9.70	12.97
4.858	22.70	56.00	33.30	N	9.70	13.00
22.498	12.60	60.00	47.40	L1	10.10	2.50

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.190	29.50	54.04	24.53	N	9.60	19.90
0.266	23.29	51.24	27.96	L1	9.70	13.59
3.402	18.23	46.00	27.77	N	9.70	8.53
3.674	16.62	46.00	29.38	L1	9.70	6.92
9.934	20.51	50.00	29.49	L1	9.80	10.71
14.738	19.13	50.00	30.87	N	10.00	9.13

Data transfer mode/EUT to PC: Set 4
Voltage: 120V

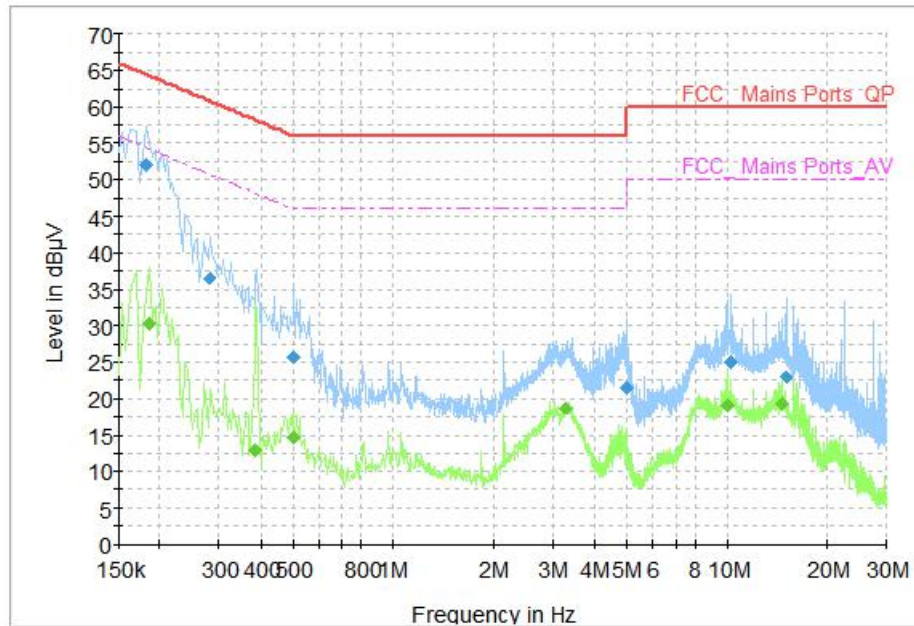


Figure B.10 Conducted Emission

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.182	51.97	64.39	12.42	N	9.60	42.37
0.282	36.57	60.76	24.18	N	9.60	26.97
0.506	25.72	56.00	30.28	N	9.70	16.02
4.990	21.51	56.00	34.49	N	9.70	11.81
10.250	25.00	60.00	35.00	L1	9.90	15.10
15.002	22.99	60.00	37.01	N	10.00	12.99

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.186	30.29	54.21	23.92	N	9.60	20.69
0.386	12.95	48.15	35.20	N	9.60	3.35
0.506	14.69	46.00	31.31	N	9.70	4.99
3.318	18.64	46.00	27.36	N	9.70	8.94
9.958	18.99	50.00	31.01	N	9.80	9.19
14.598	19.22	50.00	30.78	N	10.00	9.22

Data transfer mode/PC to TF Card: Set 4
Voltage: 120V

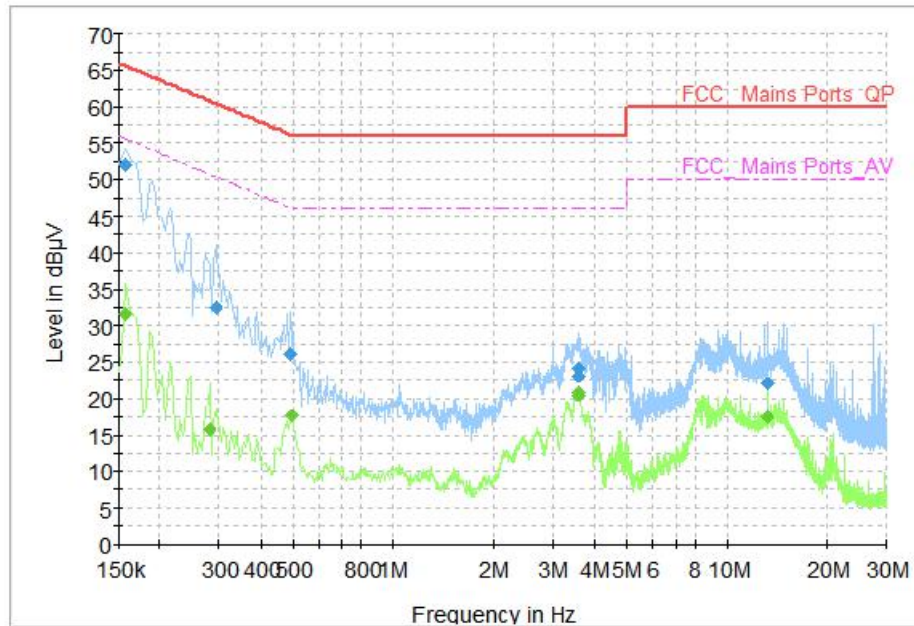


Figure B.11 Conducted Emission

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.158	51.99	65.57	13.58	N	9.60	42.39
0.294	32.49	60.41	27.92	N	9.60	22.89
0.490	26.14	56.17	30.03	L1	9.70	16.44
3.602	24.09	56.00	31.91	L1	9.70	14.39
3.614	23.13	56.00	32.87	L1	9.70	13.43
13.222	22.02	60.00	37.98	N	9.90	12.12

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.158	31.54	55.57	24.03	N	9.60	21.94
0.282	15.61	50.76	35.15	N	9.60	6.01
0.498	17.72	46.03	28.32	L1	9.70	8.02
3.602	20.72	46.00	25.28	L1	9.70	11.02
3.610	20.48	46.00	25.52	L1	9.70	10.78
13.194	17.42	50.00	32.58	N	9.90	7.52

Data transfer mode/TF Card to PC: Set 4
Voltage: 120V

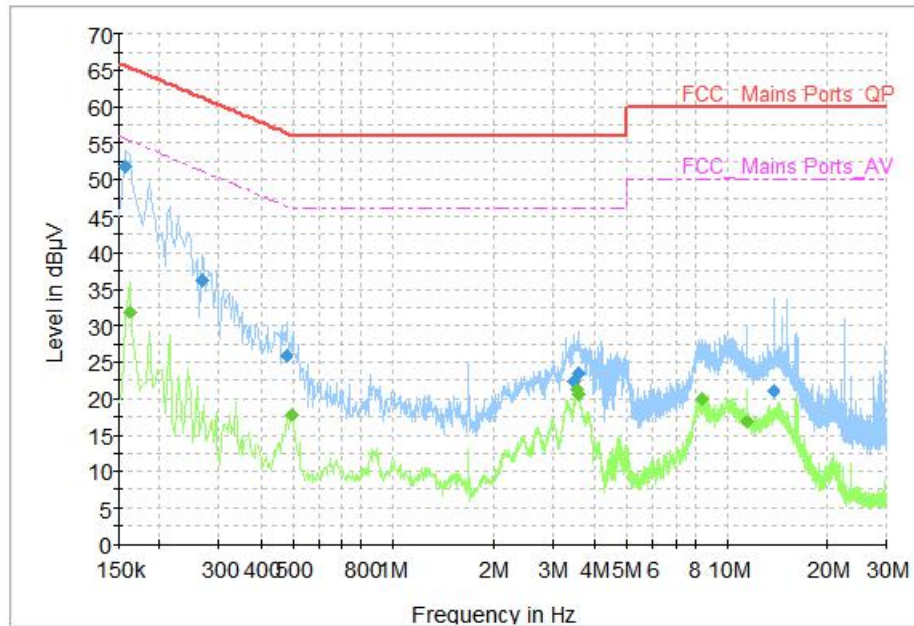


Figure B.12 Conducted Emission

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.158	51.88	65.57	13.69	N	9.60	42.28
0.266	36.09	61.24	25.16	L1	9.70	26.39
0.478	25.92	56.37	30.46	L1	9.70	16.22
3.486	22.46	56.00	33.54	L1	9.70	12.76
3.606	23.45	56.00	32.55	L1	9.70	13.75
13.754	20.90	60.00	39.10	L1	10.00	10.90

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.162	31.88	55.36	23.48	L1	9.70	22.18
0.498	17.75	46.03	28.29	L1	9.70	8.05
3.562	21.16	46.00	24.84	L1	9.70	11.46
3.610	20.70	46.00	25.30	L1	9.70	11.00
8.454	19.96	50.00	30.04	N	9.80	10.16
11.394	16.71	50.00	33.29	N	9.90	6.81

Camera mode / Charging mode: Set 1
Voltage: 240V

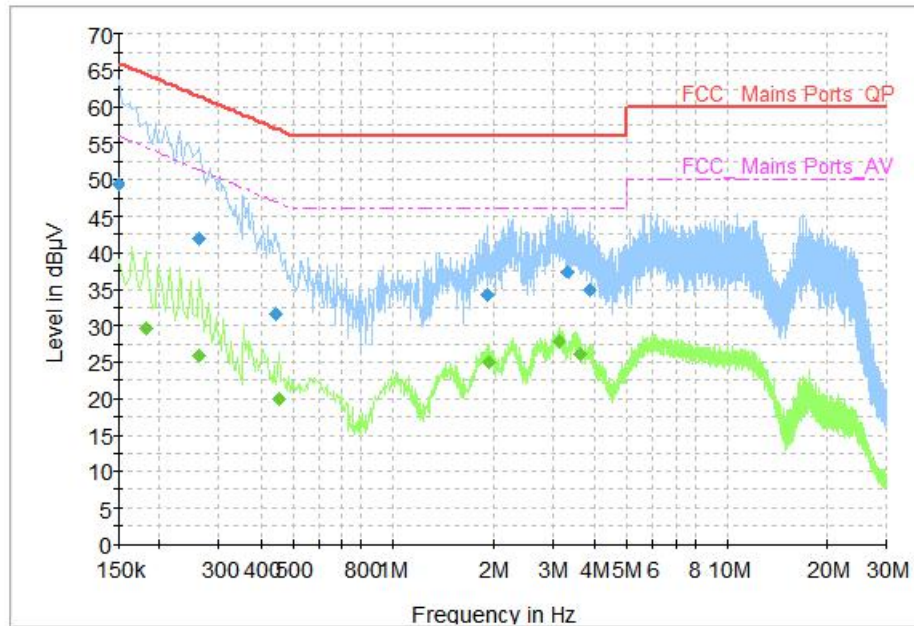


Figure B.13 Conducted Emission

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.150	49.30	66.00	16.70	N	9.60	39.70
0.262	41.96	61.37	19.41	N	9.60	32.36
0.446	31.60	56.95	25.35	N	9.60	22.00
1.902	34.19	56.00	21.81	N	9.70	24.49
3.342	37.46	56.00	18.54	N	9.70	27.76
3.874	34.96	56.00	21.04	N	9.70	25.26

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.182	29.58	54.39	24.81	N	9.60	19.98
0.262	25.91	51.37	25.45	N	9.60	16.31
0.454	19.98	46.80	26.82	N	9.70	10.28
1.950	25.10	46.00	20.90	L1	9.70	15.40
3.122	27.84	46.00	18.16	L1	9.70	18.14
3.626	26.14	46.00	19.86	L1	9.70	16.44

Charging mode/FM receiver mode: Set 1
Voltage: 240V

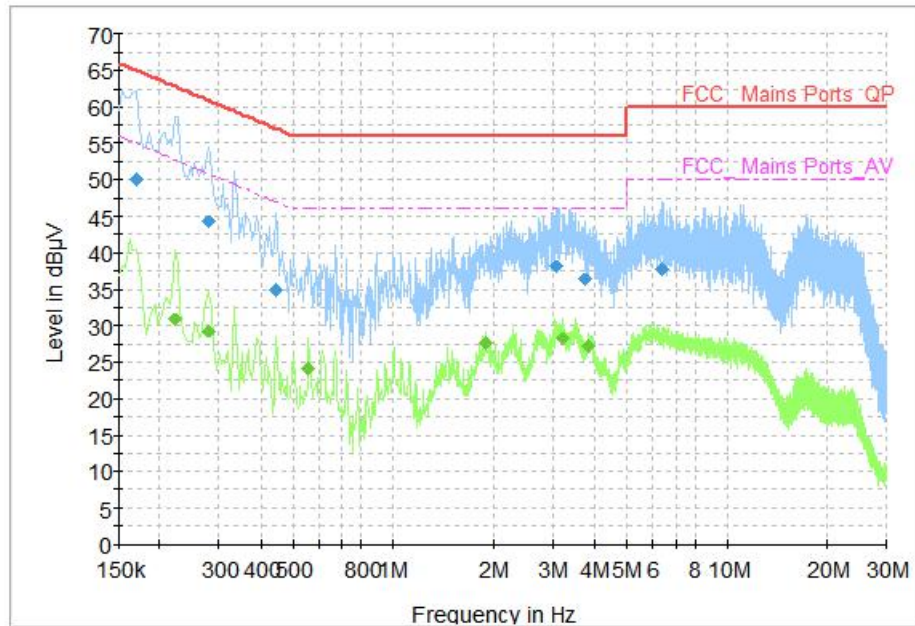


Figure B.14 Conducted Emission

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.170	50.05	64.96	14.91	N	9.60	40.45
0.278	44.17	60.88	16.71	N	9.60	34.57
0.446	34.99	56.95	21.96	N	9.60	25.39
3.066	38.08	56.00	17.92	N	9.70	28.38
3.742	36.29	56.00	19.71	N	9.70	26.59
6.342	37.69	60.00	22.31	N	9.80	27.89

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.222	30.90	52.74	21.85	N	9.60	21.30
0.278	29.29	50.88	21.58	N	9.60	19.69
0.558	24.19	46.00	21.81	N	9.70	14.49
1.894	27.63	46.00	18.37	L1	9.70	17.93
3.214	28.21	46.00	17.79	L1	9.70	18.51
3.842	27.20	46.00	18.80	L1	9.70	17.50

Camera mode / Charging mode: Set 2
Voltage: 240V

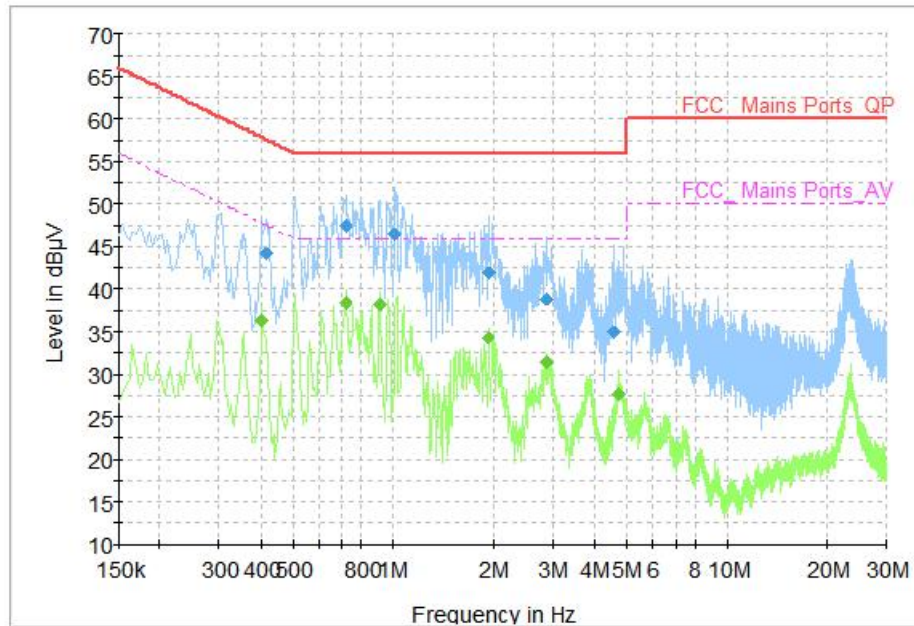


Figure B.15 Conducted Emission

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.414	44.09	57.57	13.48	L1	9.70	34.39
0.722	47.44	56.00	8.56	L1	9.70	37.74
1.010	46.47	56.00	9.53	L1	9.70	36.77
1.942	41.91	56.00	14.09	L1	9.70	32.21
2.894	38.91	56.00	17.09	L1	9.70	29.21
4.582	34.97	56.00	21.03	L1	9.80	25.17

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.406	36.25	47.73	11.48	L1	9.70	26.55
0.722	38.47	46.00	7.53	L1	9.70	28.77
0.914	38.29	46.00	7.71	L1	9.70	28.59
1.930	34.34	46.00	11.66	L1	9.70	24.64
2.894	31.53	46.00	14.47	L1	9.70	21.83
4.730	27.62	46.00	18.38	L1	9.80	17.82

Charging mode/FM receiver mode: Set 2
Voltage: 240V

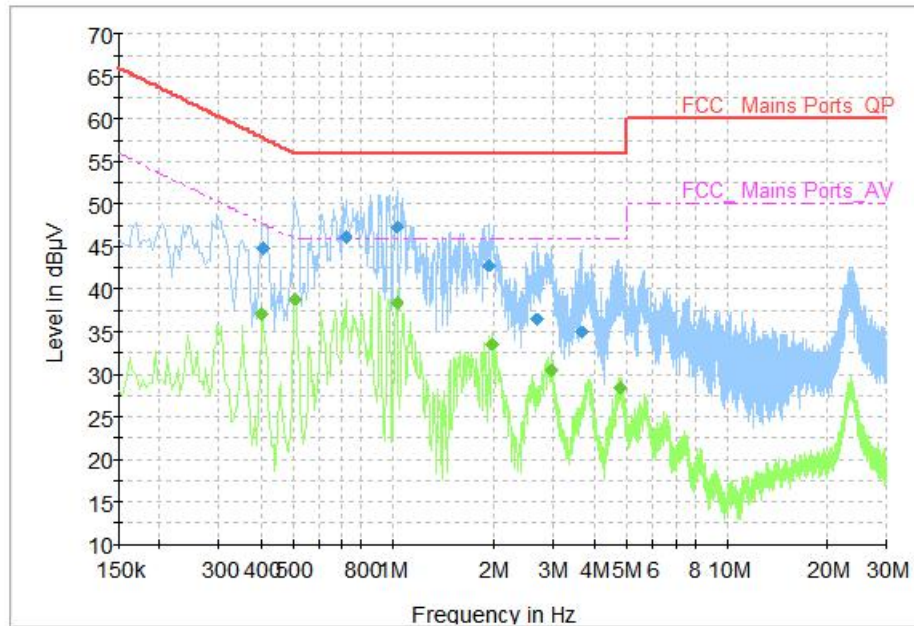


Figure B.16 Conducted Emission

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.410	44.78	57.65	12.87	L1	9.70	35.08
0.718	46.17	56.00	9.83	L1	9.70	36.47
1.026	47.27	56.00	8.73	L1	9.70	37.57
1.938	42.80	56.00	13.20	L1	9.70	33.10
2.706	36.40	56.00	19.60	N	9.70	26.70
3.670	34.91	56.00	21.09	L1	9.70	25.21

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.406	37.11	47.73	10.62	L1	9.70	27.41
0.510	38.85	46.00	7.15	L1	9.70	29.15
1.022	38.39	46.00	7.61	L1	9.70	28.69
1.974	33.57	46.00	12.43	L1	9.70	23.87
2.966	30.46	46.00	15.54	L1	9.70	20.76
4.814	28.42	46.00	17.58	L1	9.80	18.62

Data transfer mode/PC to EUT: Set 3
Voltage: 240V

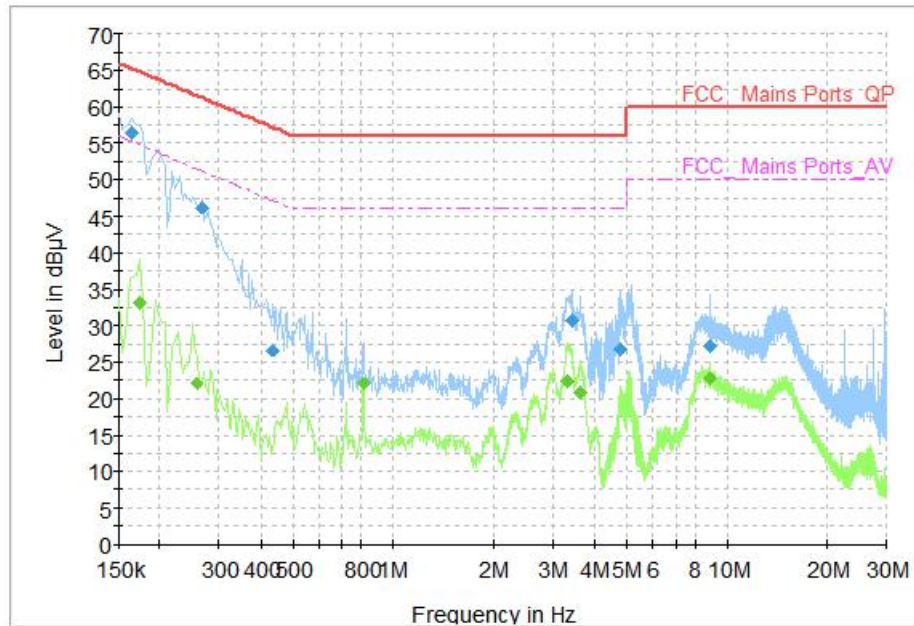


Figure B.17 Conducted Emission

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.166	56.48	65.16	8.68	N	9.60	46.88
0.266	46.24	61.24	15.00	L1	9.70	36.54
0.434	26.67	57.18	30.50	N	9.70	16.97
3.458	30.72	56.00	25.28	L1	9.70	21.02
4.798	26.85	56.00	29.15	N	9.70	17.15
8.890	27.14	60.00	32.86	N	9.80	17.34

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.174	33.10	54.77	21.66	N	9.60	23.50
0.258	22.12	51.50	29.38	N	9.60	12.52
0.814	21.97	46.00	24.03	L1	9.70	12.27
3.346	22.34	46.00	23.66	L1	9.70	12.64
3.638	20.89	46.00	25.11	L1	9.70	11.19
8.890	22.69	50.00	27.31	N	9.80	12.89

Data transfer mode/EUT to PC: Set 3
Voltage: 240V

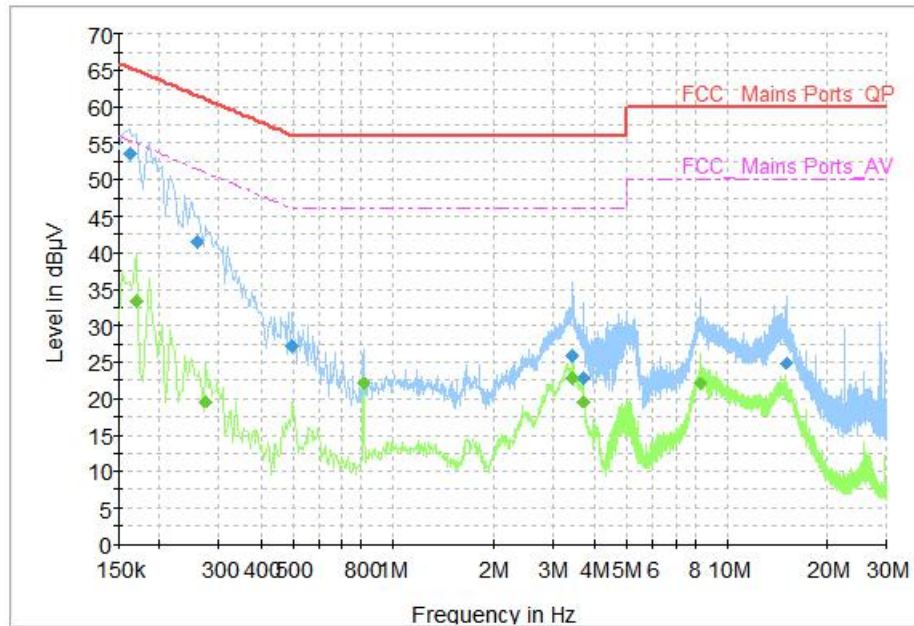


Figure B.18 Conducted Emission

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.162	53.59	65.36	11.77	N	9.60	43.99
0.258	41.49	61.50	20.00	N	9.60	31.89
0.498	27.16	56.03	28.88	L1	9.70	17.46
3.446	25.98	56.00	30.02	N	9.70	16.28
3.706	22.74	56.00	33.26	N	9.70	13.04
15.006	24.90	60.00	35.10	N	10.00	14.90

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.170	33.35	54.96	21.61	N	9.60	23.75
0.274	19.64	51.00	31.35	L1	9.70	9.94
0.814	21.97	46.00	24.03	N	9.70	12.27
3.462	22.80	46.00	23.20	N	9.70	13.10
3.710	19.51	46.00	26.49	N	9.70	9.81
8.306	22.12	50.00	27.88	N	9.80	12.32

Data transfer mode/PC to TF Card: Set 3
Voltage: 240V

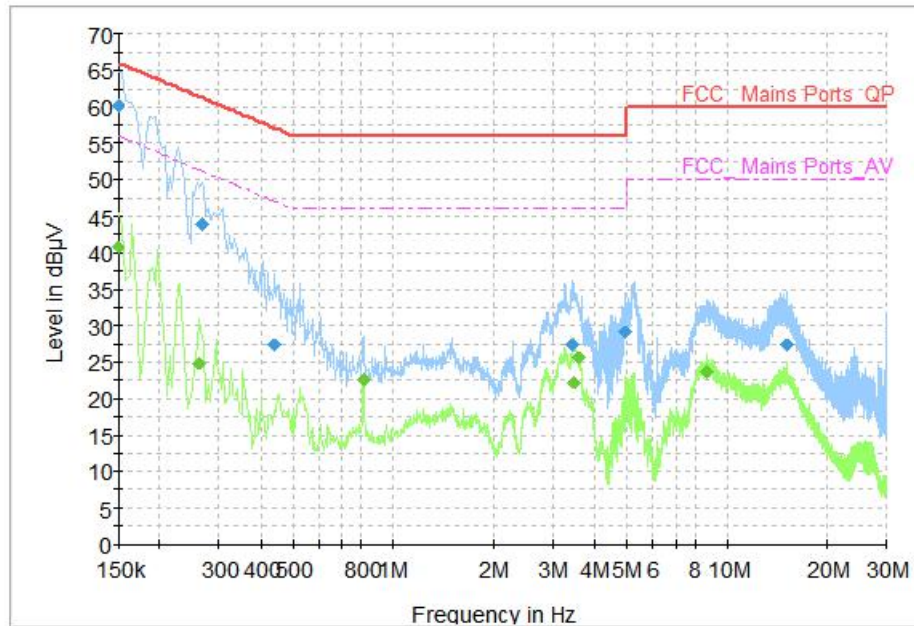


Figure B.19 Conducted Emission

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.150	60.04	66.00	5.96	N	9.60	50.44
0.266	43.92	61.24	17.32	N	9.60	34.32
0.442	27.31	57.02	29.71	N	9.70	17.61
3.462	27.30	56.00	28.70	N	9.70	17.60
4.966	29.07	56.00	26.93	N	9.70	19.37
15.142	27.39	60.00	32.61	N	10.00	17.39

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.150	40.68	56.00	15.32	N	9.60	31.08
0.262	24.86	51.37	26.50	L1	9.70	15.16
0.814	22.65	46.00	23.35	N	9.70	12.95
3.470	22.23	46.00	23.77	N	9.70	12.53
3.610	25.57	46.00	20.43	L1	9.70	15.87
8.706	23.59	50.00	26.41	N	9.80	13.79

Data transfer mode/TF Card to PC: Set 3
Voltage: 240V

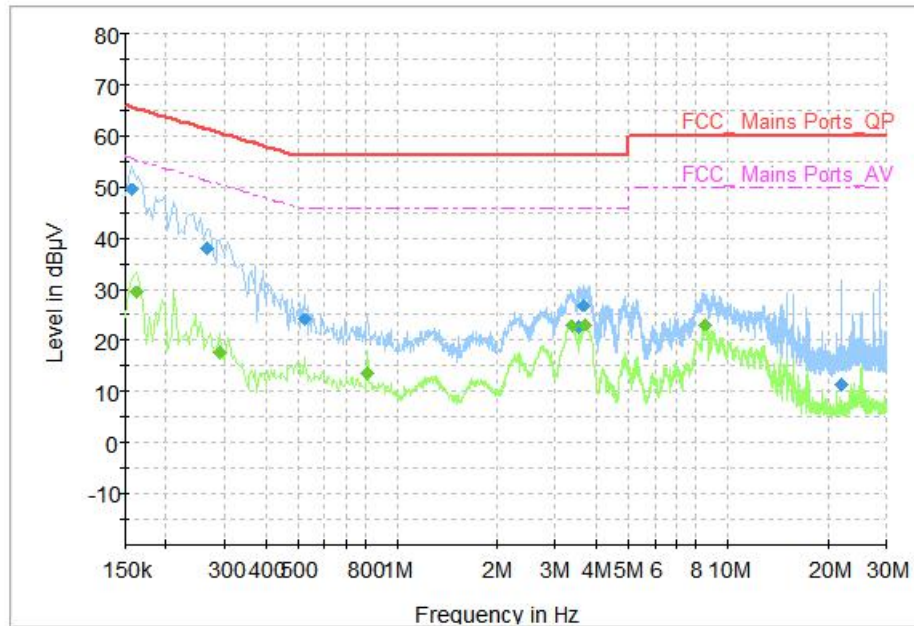


Figure B.20 Conducted Emission

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.158	49.60	65.57	15.97	L1	9.70	39.90
0.266	37.91	61.24	23.33	L1	9.70	28.21
0.522	24.11	56.00	31.89	N	9.70	14.41
3.558	22.67	56.00	33.33	L1	9.70	12.97
3.658	26.94	56.00	29.06	L1	9.70	17.24
21.926	11.24	60.00	48.76	L1	10.10	1.14

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.162	29.47	55.36	25.89	N	9.60	19.87
0.290	17.53	50.52	33.00	N	9.60	7.93
0.814	13.59	46.00	32.41	N	9.70	3.89
3.346	22.92	46.00	23.08	L1	9.70	13.22
3.714	23.01	46.00	22.99	L1	9.70	13.31
8.482	23.04	50.00	26.96	N	9.80	13.24

Data transfer mode/PC to EUT: Set 4
Voltage: 240V

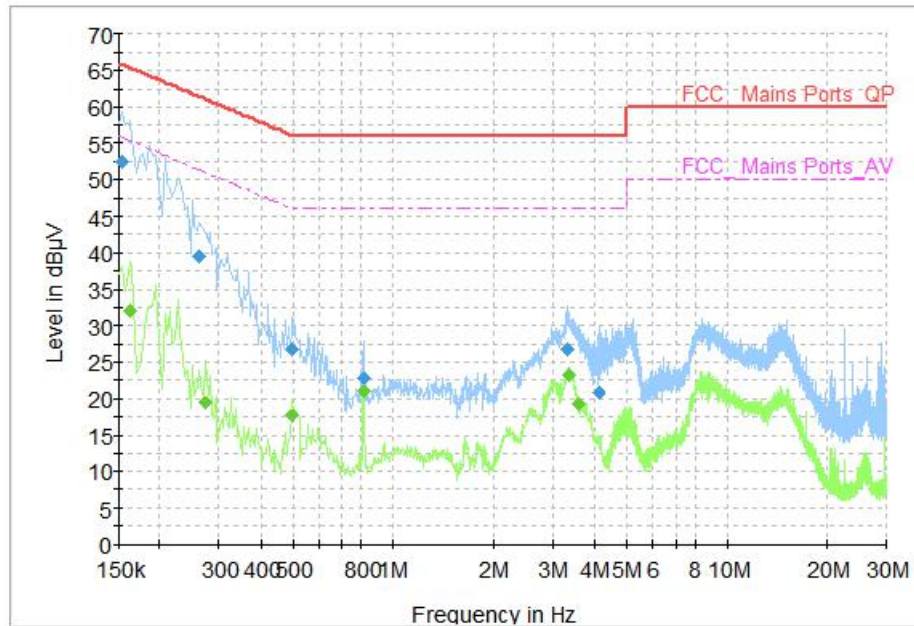


Figure B.21 Conducted Emission

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.154	52.50	65.78	13.29	L1	9.70	42.80
0.262	39.51	61.37	21.86	L1	9.70	29.81
0.498	26.78	56.03	29.25	L1	9.70	17.08
0.814	22.77	56.00	33.23	L1	9.70	13.07
3.322	26.75	56.00	29.25	L1	9.70	17.05
4.134	20.79	56.00	35.21	L1	9.70	11.09

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.162	32.15	55.36	23.21	L1	9.70	22.45
0.274	19.39	51.00	31.60	L1	9.70	9.69
0.498	17.64	46.03	28.40	L1	9.70	7.94
0.814	21.07	46.00	24.93	L1	9.70	11.37
3.354	23.26	46.00	22.74	L1	9.70	13.56
3.606	19.18	46.00	26.82	L1	9.70	9.48

Data transfer mode/EUT to PC: Set 4
Voltage: 240V

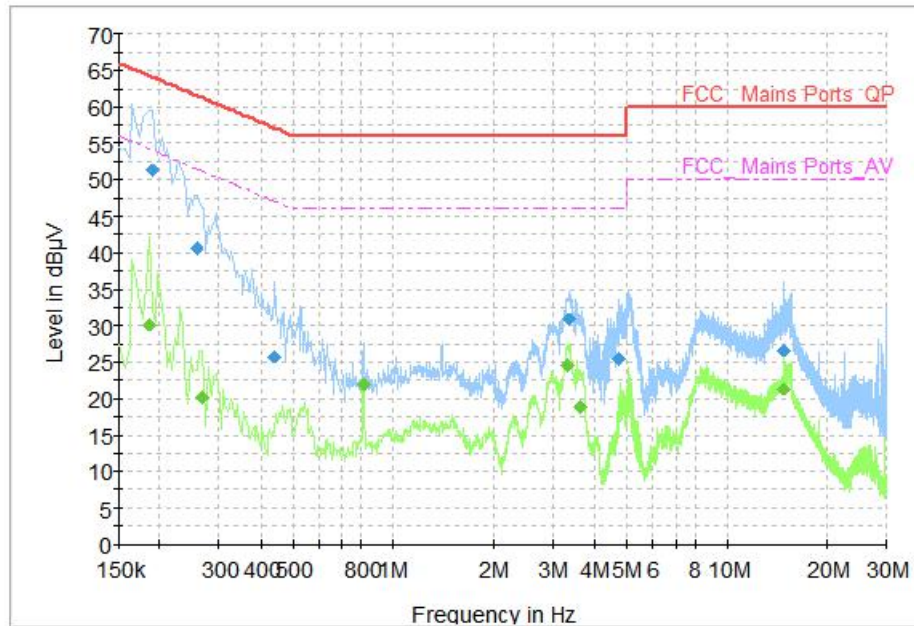


Figure B.22 Conducted Emission

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.190	51.39	64.04	12.65	N	9.60	41.79
0.258	40.49	61.50	21.01	N	9.60	30.89
0.442	25.67	57.02	31.36	N	9.70	15.97
3.366	30.85	56.00	25.15	L1	9.70	21.15
4.742	25.43	56.00	30.57	N	9.70	15.73
14.758	26.59	60.00	33.41	L1	10.10	16.49

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.186	30.11	54.21	24.10	N	9.60	20.51
0.266	20.18	51.24	31.07	N	9.60	10.58
0.814	21.89	46.00	24.11	N	9.70	12.19
3.326	24.57	46.00	21.43	L1	9.70	14.87
3.646	18.94	46.00	27.06	N	9.70	9.24
14.798	21.33	50.00	28.67	L1	10.10	11.23

Data transfer mode/PC to TF Card: Set 4
Voltage: 240V

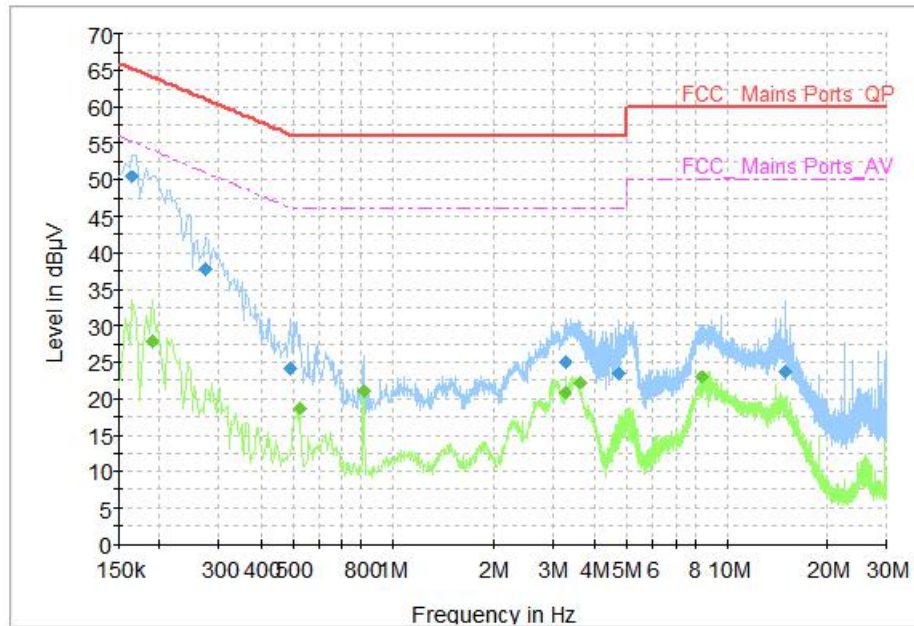


Figure B.23 Conducted Emission

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.166	50.51	65.16	14.64	N	9.60	40.91
0.274	37.77	61.00	23.23	N	9.60	28.17
0.490	24.17	56.17	32.00	L1	9.70	14.47
3.266	25.00	56.00	31.00	N	9.70	15.30
4.766	23.41	56.00	32.59	N	9.70	13.71
14.890	23.54	60.00	36.46	L1	10.10	13.44

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.190	27.91	54.04	26.12	L1	9.70	18.21
0.526	18.76	46.00	27.24	L1	9.70	9.06
0.814	21.06	46.00	24.94	N	9.70	11.36
3.282	20.78	46.00	25.22	N	9.70	11.08
3.634	22.19	46.00	23.81	L1	9.70	12.49
8.462	22.87	50.00	27.13	N	9.80	13.07

Data transfer mode/TF Card to PC: Set 4
Voltage: 240V

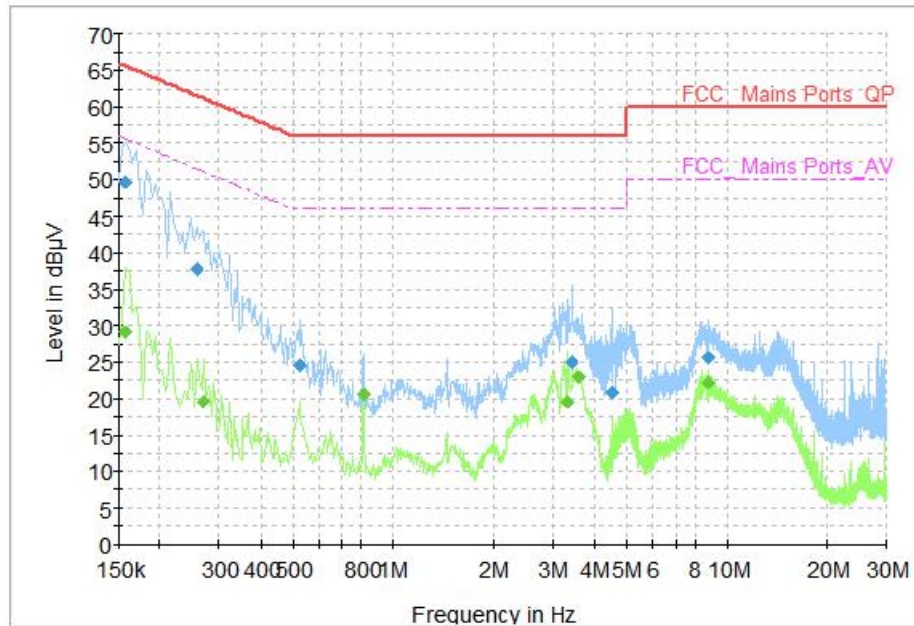


Figure B.24 Conducted Emission

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.158	49.75	65.57	15.82	L1	9.70	40.05
0.258	37.72	61.50	23.78	L1	9.70	28.02
0.522	24.45	56.00	31.55	L1	9.70	14.75
3.426	25.03	56.00	30.97	N	9.70	15.33
4.546	20.81	56.00	35.19	N	9.70	11.11
8.830	25.51	60.00	34.49	N	9.80	15.71

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.158	29.17	55.57	26.40	L1	9.70	19.47
0.270	19.62	51.12	31.50	L1	9.70	9.92
0.814	20.62	46.00	25.38	N	9.70	10.92
3.346	19.59	46.00	26.41	N	9.70	9.89
3.610	22.90	46.00	23.10	L1	9.70	13.20
8.830	22.26	50.00	27.74	N	9.80	12.46

END OF REPORT