



TEST REPORT

No.I21N00360-EMC

for

unitech Electronics Co., Ltd.

Wearable Computer

Model Name: WD200

With

Hardware Version:DVT2

Software Version:v117-0

FCC ID:HLEWD200BTNF

Issued Date: 2021-03-22

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.

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No.I21N00360-EMC

REPORT HISTORY

Report Number	Revision	Description	Issue Date
I21N00360-EMC	Rev.0	1st edition	2021-03-22

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

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1. Summary of Test Report

1.1. Test Items

Description	Wearable Computer
Model Name	WD200
Applicant's name	unitech Electronics Co., Ltd.
Manufacturer's Name	unitech Electronics Co., Ltd.

1.2. Test Standards

FCC Part 15, Subpart B 10-1-2019 Edition; ANSI C63.4 2014

1.3. Test Result

Pass

Total test 2 items, pass 2 items. Please refer to "6.2 Summary of Measurement Results"

1.4. Testing Location

Address: Building G, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian District, Shenzhen, Guangdong, P. R. China

1.5. Project data

Testing Start Date: 2021-02-05

Testing End Date: 2021-03-20

1.6. Signature

Ma Shoujian
(Prepared this test report)

Zhang Yunzhuan
(Reviewed this test report)

Cao Junfei
(Approved this test report)



2. ClientInformation

2.1. Applicant Information

Company Name: unitech Electronics Co., Ltd.
Address: 5F., No. 136, Ln. 235, Baoqiao Rd., Xindian Dist., New Taipei City 231,
Taiwan, China
Contact Ben Chiang
Email BenC@tw.ute.com
Tel. 886-2-8912-1122

2.2. Manufacturer Information

Company Name: unitech Electronics Co., Ltd.
Address: 5F., No. 136, Ln. 235, Baoqiao Rd., Xindian Dist., New Taipei City 231,
Taiwan,China
Contact Ben Chiang
Email BenC@tw.ute.com
Tel. 886-2-8912-1122

3. Equipment UnderTest (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	Wearable Computer
Model Name	WD200
FCC ID	HLEWD200BTNF
Antenna Type	Internal Antenna
Condition of EUT as received	No obvious damage in appearance

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of Shenzhen Academy of Information and Communications Technology.

3.2. Internal Identification of EUT

EUT ID*	SN or IMEI	HW Version	SW Version	Receive Date
UT05aa	950104210109	DVT2	v117-0	2021-02-05
UT06aa	950104210038	DVT2	v117-0	2021-02-05

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

3.3. Internal Identification of AE

AE ID*	Description
AE1	Battery
AE2	Quick Charge Adapter
AE3	USB Cable
AE1	
Model	206546G
Manufacturer	Sichuan iGreen Technology Co.,Ltd
Capacity	2050mAh
Nominal Voltage	3.85V
AE2-1	
Model	S018BYV1200150
Manufacturer	Ten Pao Industrial Co., Ltd
AE2-2	
Model	S018BYB1200150
Manufacturer	Ten Pao Industrial Co., Ltd
AE2-3	
Model	S018BYU1200150
Manufacturer	Ten Pao Industrial Co., Ltd
AE2-4	
Model	S018BYS1200150
Manufacturer	Ten Pao Industrial Co., Ltd



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AE3

Type USB 3.0 A TO C 1M

Manufacturer JHEN VEI ELECTRONIC CO., LTD.

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

AE: ancillary equipment

A2-1,AE2-2,AE2-3,AE2-4:just for testing.

3.4. EUT set-ups

EUT set-up No.

Set.1
Set.2
Set.3
Set.4
Set.5

Combination of EUT and AE

EUT+AE1+AE2-1+AE3
EUT+AE1+AE2-2+AE3
EUT+AE1+AE2-3+AE3
EUT+AE1+AE2-4+AE3
EUT+AE1+AE3+PC



3.5. General Description

The Equipment Under Test (EUT) is a model of Wearable Computer with internal antenna.

It has Camera, Video Player, USB Data Transfer, Bluetooth, Wi-Fi and NFC functions.

It consists of normal options: Battery and USB Cable.

Samples (EUT+AE) undergoing test were selected by the Client. Relevant information is provided by the Client.

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	10-1-2019 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:

9.10m×6.10m×5.60m (L×W×H)

Temperature	Min. = 15 °C, Max. = 35°C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz,>60dB; 1MHz-18000MHz,>90dB
Electrical insulation	>2MΩ
Ground system resistance	<4Ω
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. = 35 °C
Relative humidity	Min. =20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz,>60dB; 1MHz-10000MHz,>90dB
Electrical insulation	>2MΩ
Ground system resistance	<4Ω

Fully-anechoic chamber did not exceed following limits along the EMC testing:

9.10m×6.10m×5.60m (L×W×H)

Temperature	Min. = 15 °C, Max. = 35°C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz,>60dB; 1MHz-18000MHz,>90dB
Electrical insulation	>2MΩ
Ground system resistance	<4Ω
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

6.1. Testing Environment

Normal Temperature: 15~35℃
Relative Humidity: 20~75%
Atmospheric pressure 86~106kPa

6.2. Summary of Measurement 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)	A.2	P

6.3. Statement

6.3.1 Statements of conformity

This report takes measured values as criterion of test conclusion. The test conclusion meets the limit requirements.

7. Measurement uncertainty

Test item	Frequency ranges	Measurement uncertainty
Radiated Emission	30MHz-1GHz	4.84dB(k=2)
	1GHz-18GHz	4.68dB(k=2)
Conducted Emission	150kHz-30MHz	3.00dB(k=2)

8. Test Facilities Utilized

NO.	NAME	TYPE	SERIES NUMBER	PRODUCER	CAL.DUE DATE	CAL PERIOD
1.	Test Receiver	ESR7	101676	R&S	2021.12.25	1 year
2.	Test Receiver	ESCI	100701	R&S	2021.08.09	1 year
3.	Spectrum Analyzer	FSV40	101192	R&S	2022.01.13	1 year
4.	BiLog Antenna	3142E	00224831	ETS-Lindgren	2021.05.17	3 years
5.	LISN	ENV216	102067	R&S	2021.07.16	1 year
6.	Horn Antenna	3117	00066577	ETS-Lindgren	2022.04.02	3 years
7.	Chamber	FACT3-2.0	1285	ETS-Lindgren	2021.07.19	2 years
8.	Software	EMC32	V10.50.40	R&S	/	/

Note: CAL.: Calibration

9. Test Accessory Utilized

NO.	NAME	TYPE	SERIES NUMBER	PRODUCER	CALDUE DATE	CAL PERIOD
1.	PC	ThinkPad T480	PF-13LW0C	Lenovo	/	/
2.	Printer	P1008	VNF6C12491	HP	/	/
3.	Mouse	MOEUUOA	44NY517	Lenovo	/	/

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 EUT and charging mode of EUT) 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 : At the beginning of measurement, the battery is completely discharged. The battery and charger are installed so that the EUT works well and keeping on taking photos.

Video Player : The EUT is connected to a charger for charging and keeping on playing mp3.

Data Transfer : The model of the PC is Lenovo ThinkPad T480, and the serial number of the PC is PF-13LW0C. The EUT is connected to a PC for transmitting data. The software is used to let the PC keep on copying data to MS or TF Card, reading and erasing the data after copy action was finished.

This device does not contain the receivers which tune and operate between 30MHz-960MHz.

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.

A.1.3 Measurement Limit

Limit from CFR Part 15.109(a)

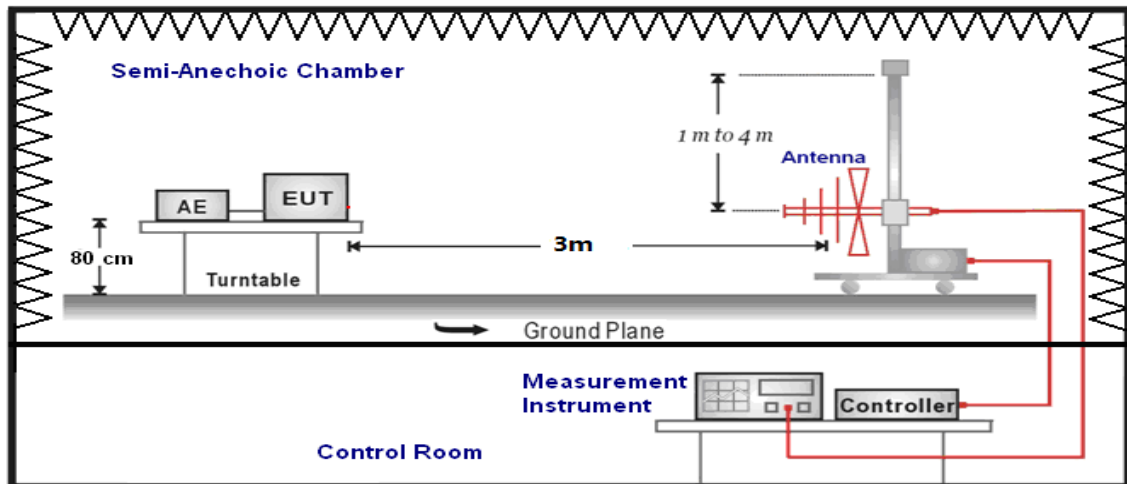
Frequency range (MHz)	Field strength limit ($\mu\text{V/m}$)		
	Quasi-peak	Average	Peak
30-88	100		
88-216	150		
216-960	200		
960-1000	500		
>1000		500	5000

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

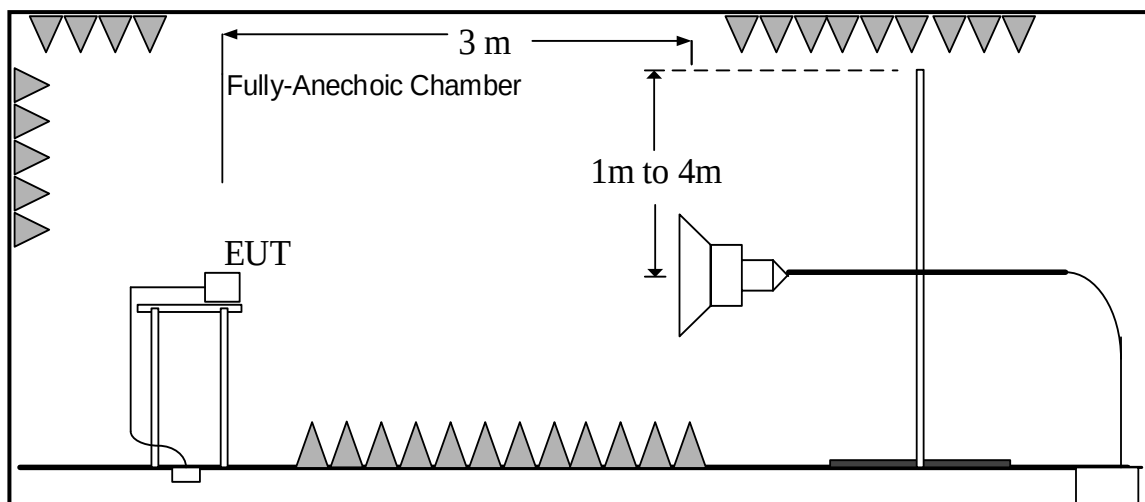
A.1.4 Test Condition

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.

Result: Quasi-Peak(dBμV/m) / Average(dBμV/m)/Peak(dBμV/m)

Note: the result contains vertical part and Horizontal part

Video Player

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT05aa/Set.1	
30-88	40.00	See Fugure A.1.1.	P
88-216	43.50		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			UT05aa/Set.1	
1000 to 18000	54	74	See Fugure A.1.2.	P
18000 to 26500	54	74	See Fugure A.1.3.	P
26500 to 40000	54	74	See Fugure A.1.4.	P

Video Player

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT05aa/Set.2	
30-88	40.00	See Fugure A.1.5.	P
88-216	43.50		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			UT05aa/Set.2	
1000 to 18000	54	74	See Fugure A.1.6.	P
18000 to 26500	54	74	See Fugure A.1.7.	P
26500 to 40000	54	74	See Fugure A.1.8.	P

Video Player

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT05aa/Set.3	
30-88	40.00	See Fugure A.1.9.	P
88-216	43.50		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			UT05aa/Set.3	
1000 to 18000	54	74	See Fugure A.1.10.	P
18000 to 26500	54	74	See Fugure A.1.11.	P
26500 to 40000	54	74	See Fugure A.1.12.	P

Video Player

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT05aa/Set.4	
30-88	40.00	See Fugure A.1.13.	P
88-216	43.50		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			UT05aa/Set.4	
1000 to 18000	54	74	See Fugure A.1.14.	P
18000 to 26500	54	74	See Fugure A.1.15.	P
26500 to 40000	54	74	See Fugure A.1.16.	P

Camera

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT05aa/Set.1	
30-88	40.00	See Fugure A.1.17.	P
88-216	43.50		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			UT05aa/Set.1	
1000 to 18000	54	74	See Fugure A.1.18.	P
18000 to 26500	54	74	See Fugure A.1.19.	P
26500 to 40000	54	74	See Fugure A.1.20.	P

Data Transfer : EUT to PC

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT05aa/Set.5	
30-88	40.00	See Fugure A.1.21.	P
88-216	43.50		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			UT05aa/Set.5	
1000 to 18000	54	74	See Fugure A.1.22.	P
18000 to 26500	54	74	See Fugure A.1.23.	P
26500 to 40000	54	74	See Fugure A.1.24.	P

Data Transfer : PC to EUT

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT05aa/Set.5	
30-88	40.00	See Fugure A.1.25.	P
88-216	43.50		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			UT05aa/Set.5	
1000 to 18000	54	74	See Fugure A.1.26.	P
18000 to 26500	54	74	See Fugure A.1.27.	P
26500 to 40000	54	74	See Fugure A.1.28.	P

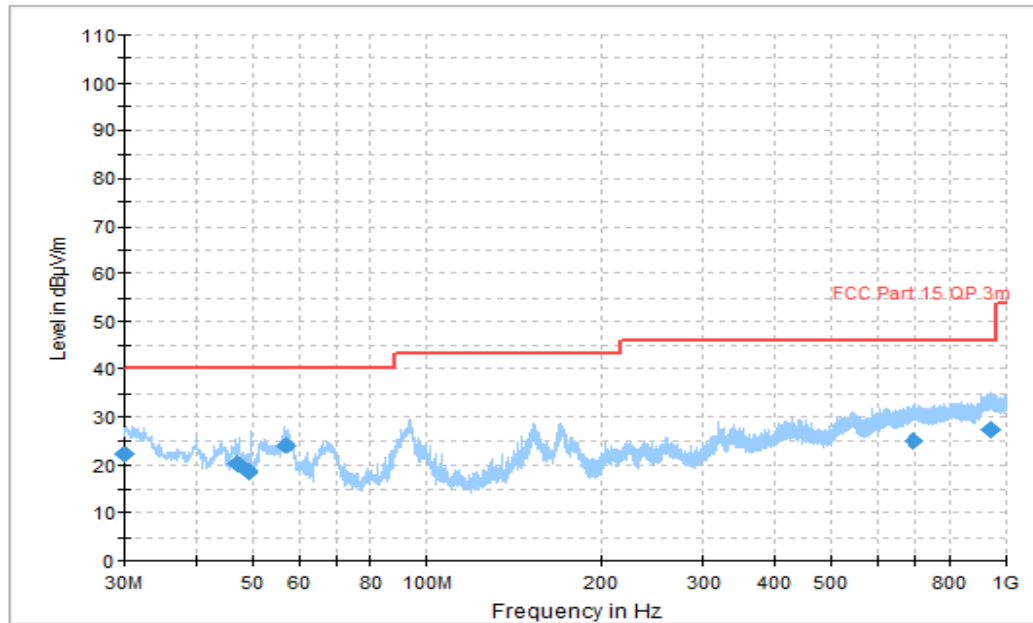


Figure A.1.1. Radiated Emission (Video Player, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBμV)
30.030000	22.34	40.00	17.66	V	-6.3	28.64
46.872222	20.10	40.00	19.90	V	-14.8	34.9
49.045556	18.49	40.00	21.51	V	-15.0	33.49
57.238889	24.05	40.00	15.95	V	-16.0	40.05
695.504444	25.08	46.00	22.92	H	1.1	23.98
938.936667	27.35	46.00	18.65	V	2.8	24.55

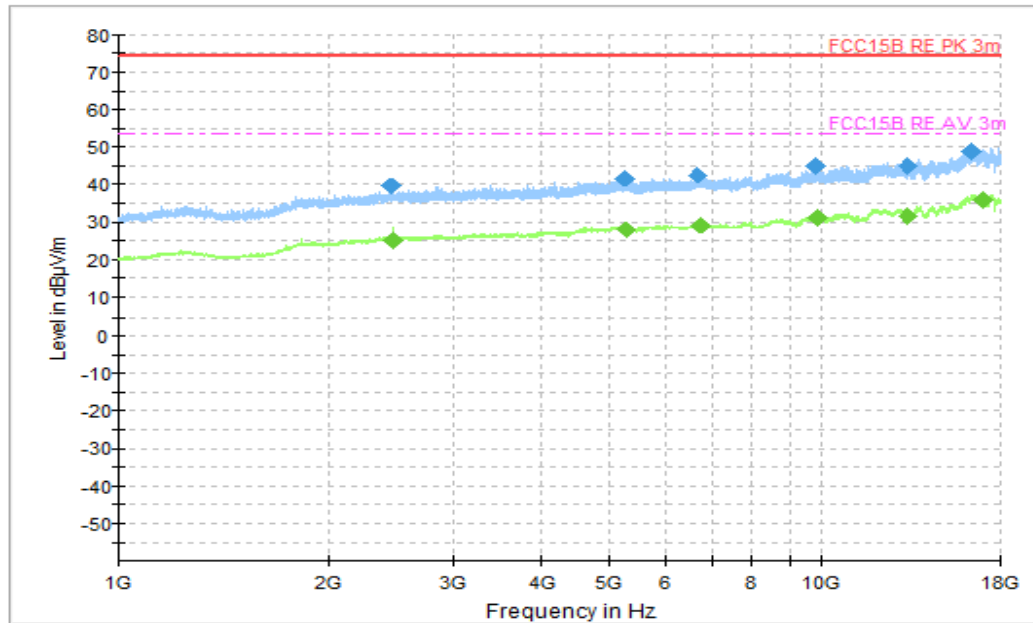


Figure A.1.2. Radiated Emission (Video Player , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
2447.000000	39.73	74.00	34.27	H	-4.4	44.13
5234.500000	41.64	74.00	32.36	H	1.4	40.24
6688.000000	42.73	74.00	31.27	V	3.4	39.33
9866.500000	44.90	74.00	29.10	H	6.4	38.50
13311.500000	45.04	74.00	28.96	H	8.4	36.64
16429.000000	48.87	74.00	25.13	H	14.6	34.27

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
2464.500000	25.36	54.00	28.64	H	-4.4	29.76
5285.000000	28.15	54.00	25.85	V	1.6	26.55
6771.000000	29.28	54.00	24.72	H	3.5	25.78
9905.500000	31.38	54.00	22.62	V	6.4	24.98
13320.500000	31.71	54.00	22.29	H	8.4	23.31
17005.500000	35.98	54.00	18.02	H	14.8	21.18

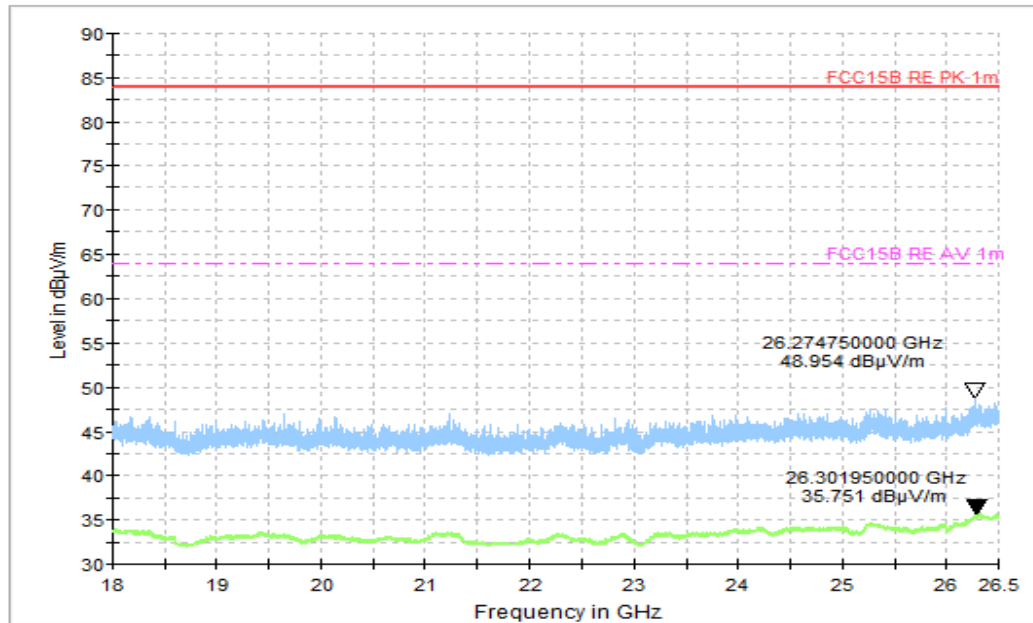


Figure A.1.3. Radiated Emission (Video Player , 18GHz to 26.5GHz)

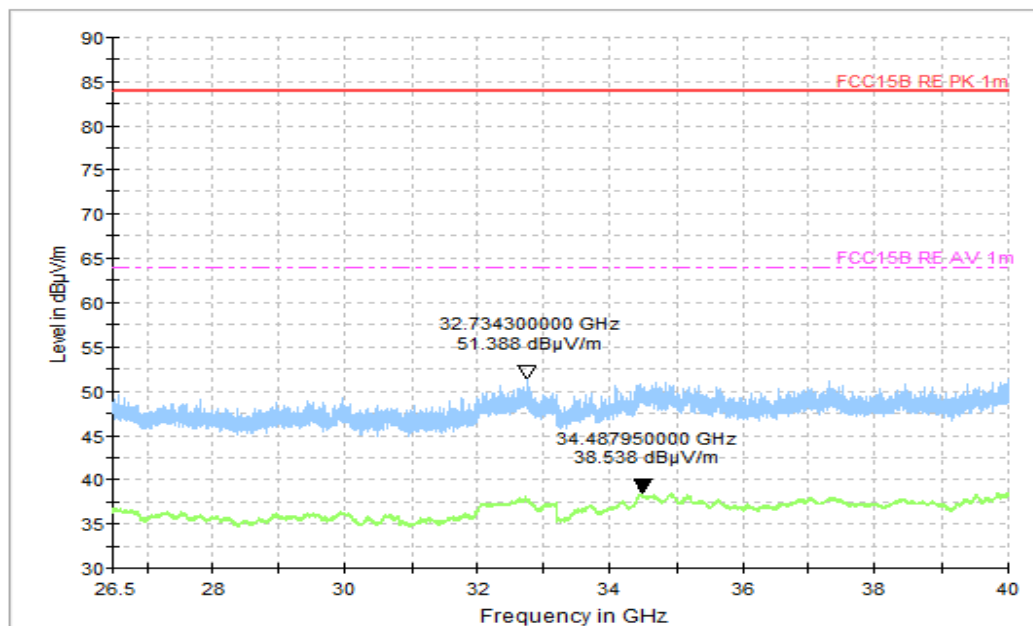


Figure A.1.4. Radiated Emission (Video Player , 26.5GHz to 40GHz)

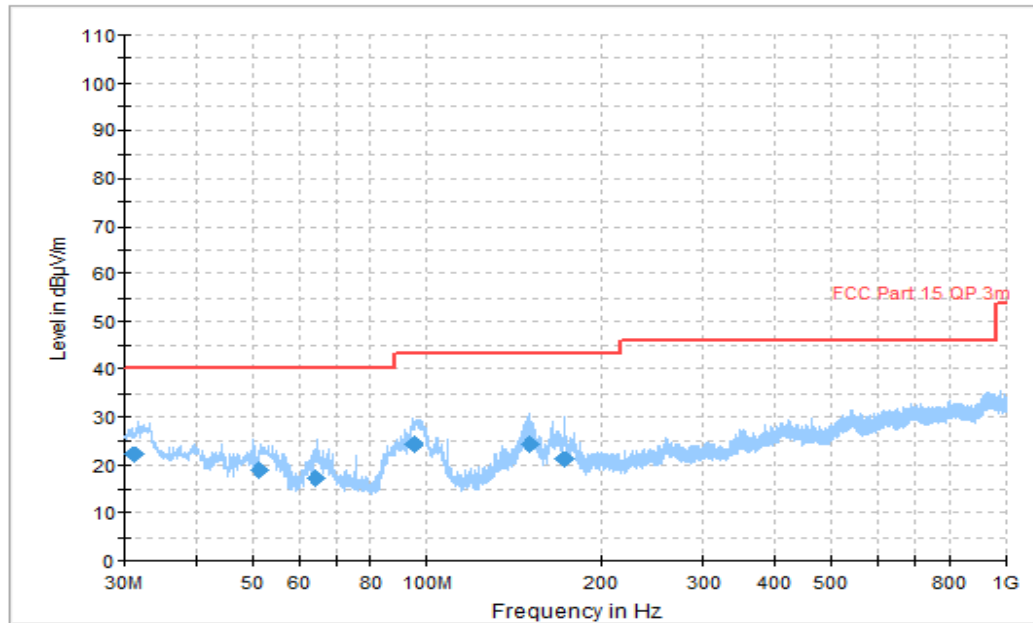


Figure A.1.5. Radiated Emission (Video Player , 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
31.184444	22.14	40.00	17.86	V	-6.6	28.74
51.392778	18.96	40.00	21.04	V	-15.3	34.26
64.404444	17.18	40.00	22.82	V	-15.1	32.28
94.889444	24.63	43.50	18.87	V	-14.6	39.23
151.268333	24.58	43.50	18.92	V	-12.5	37.08
172.140000	21.15	43.50	22.35	V	-12.6	33.75

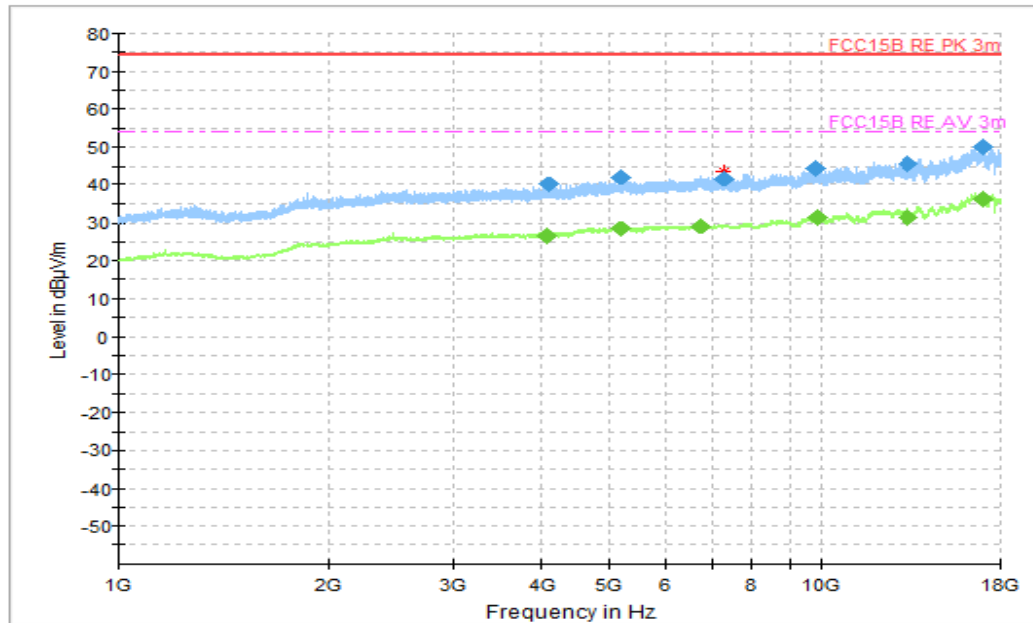


Figure A.1.6. Radiated Emission (Video Player , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
4094.250000	40.53	74.00	33.91	V	-1.5	42.03
5171.750000	41.91	33.91	32.99	H	1.2	40.71
7277.250000	43.73	32.99	30.86	H	3.5	40.23
9838.250000	44.81	74.00	31.72	H	6.4	38.41
13305.250000	45.30	74.00	26.88	V	8.4	36.9
17040.250000	49.56	74.00	24.30	V	14.7	34.86

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
4084.000000	26.54	54.00	27.12	H	-1.5	28.04
5177.250000	28.36	54.00	24.96	H	1.2	27.16
6753.000000	29.26	54.00	23.97	V	3.5	25.76
9886.000000	31.43	54.00	22.35	H	6.4	25.03
13322.000000	31.68	54.00	20.29	V	8.3	23.38
17026.000000	36.24	54.00	16.26	H	14.7	21.54

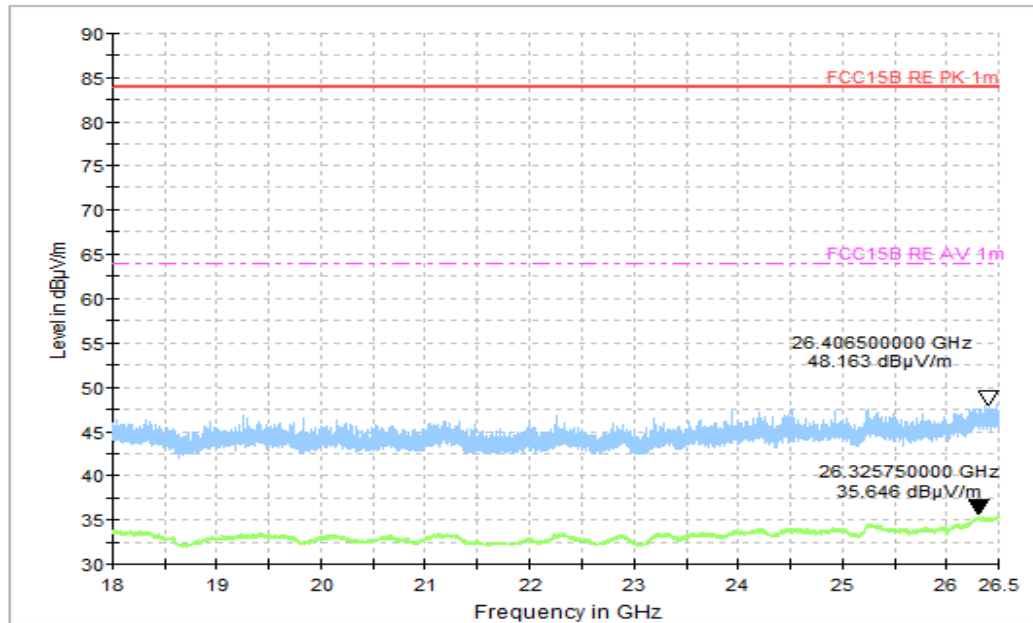


Figure A.1.7. Radiated Emission (Video Player , 18GHz to 26.5GHz)

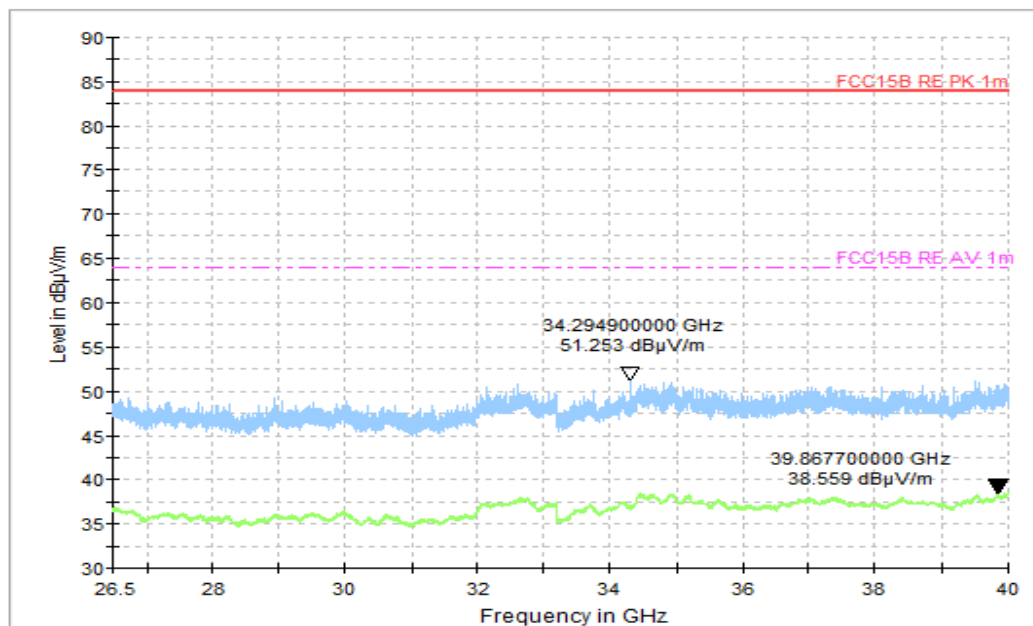


Figure A.1.8. Radiated Emission (Video Player , 26.5GHz to 40GHz)

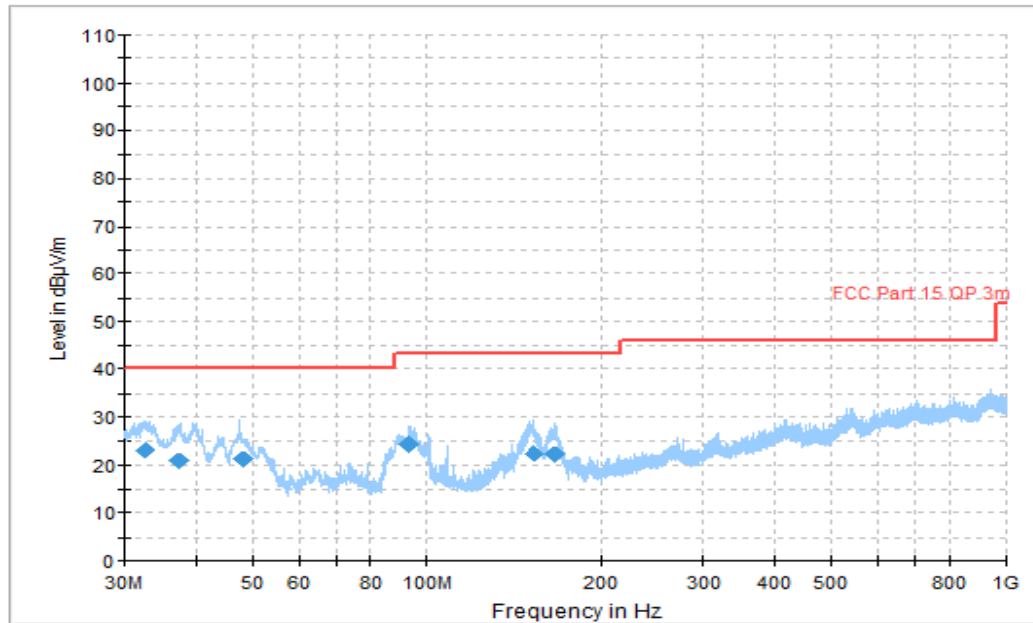


Figure A.1.9. Radiated Emission (Video Player , 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
32.581111	23.04	40.00	16.96	V	-7.3	30.34
37.166667	21.00	40.00	19.00	V	-10.5	31.5
47.880000	21.27	40.00	18.73	V	-14.9	36.17
92.595000	24.60	43.50	18.90	V	-14.8	39.40
152.913333	22.58	43.50	20.92	V	-12.2	34.78
166.543333	22.13	43.50	21.37	V	-13.3	35.43

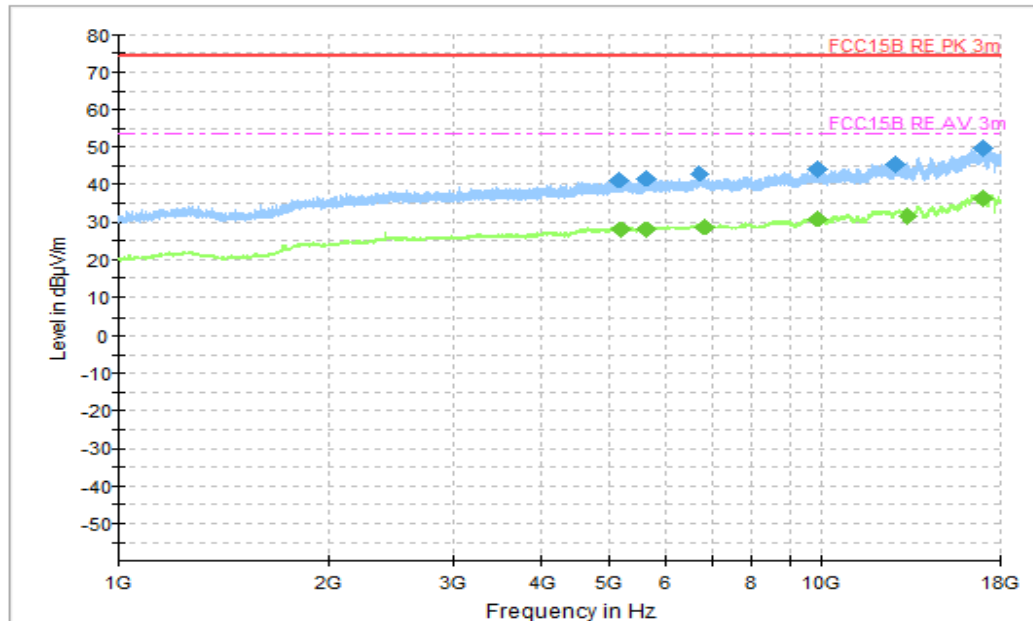


Figure A.1.10. Radiated Emission (Video Player , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
5161.000000	41.55	74.00	32.45	V	1.2	40.35
5638.500000	41.67	74.00	32.33	V	1.7	39.97
6713.500000	42.89	74.00	31.11	V	3.5	39.39
9894.000000	44.16	74.00	29.84	V	6.4	37.76
12732.500000	45.66	74.00	28.34	V	8.8	36.86
17073.500000	49.71	74.00	24.29	H	14.7	35.01

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
5174.500000	28.10	54.00	25.90	V	1.2	26.90
5660.500000	27.90	54.00	26.10	H	1.8	26.1
6821.500000	28.94	54.00	25.06	H	3.6	25.34
9916.500000	30.91	54.00	23.09	H	6.3	24.61
13295.000000	31.83	54.00	22.17	H	8.3	23.53
17004.000000	36.22	54.00	17.78	V	14.8	21.42

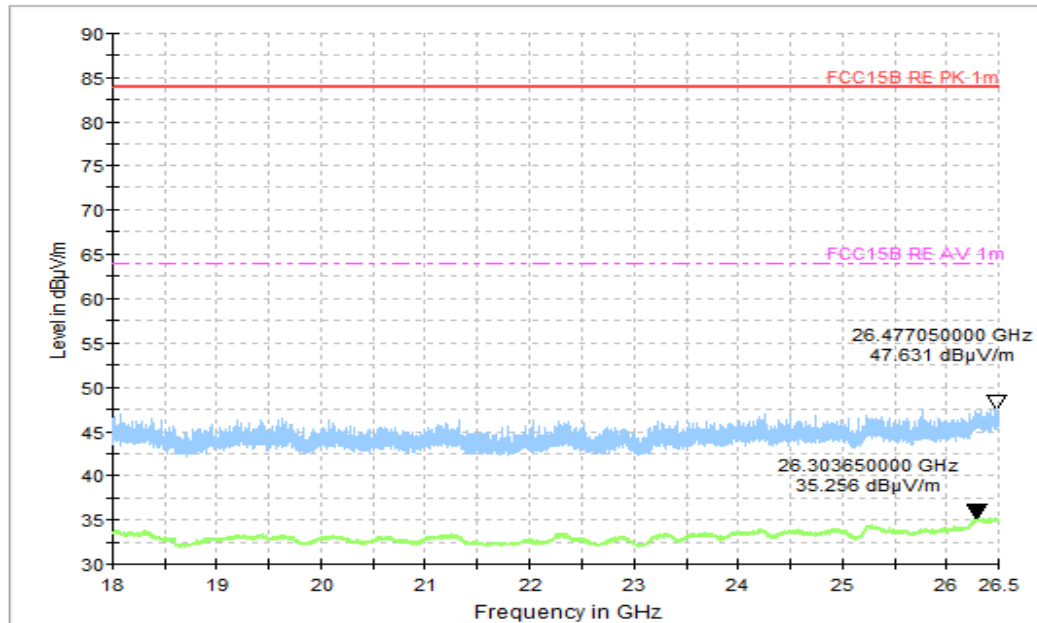


Figure A.1.11. Radiated Emission (Set.1, Video Player , 18GHz to 26.5GHz)

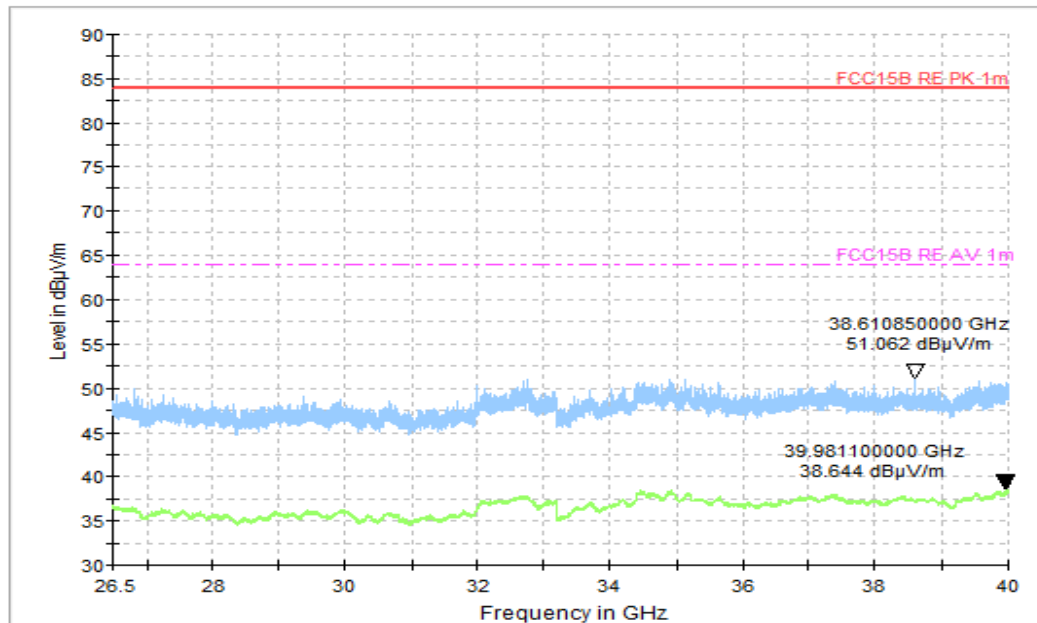


Figure A.1.12. Radiated Emission (Set.1, Video Player , 26.5GHz to 40GHz)

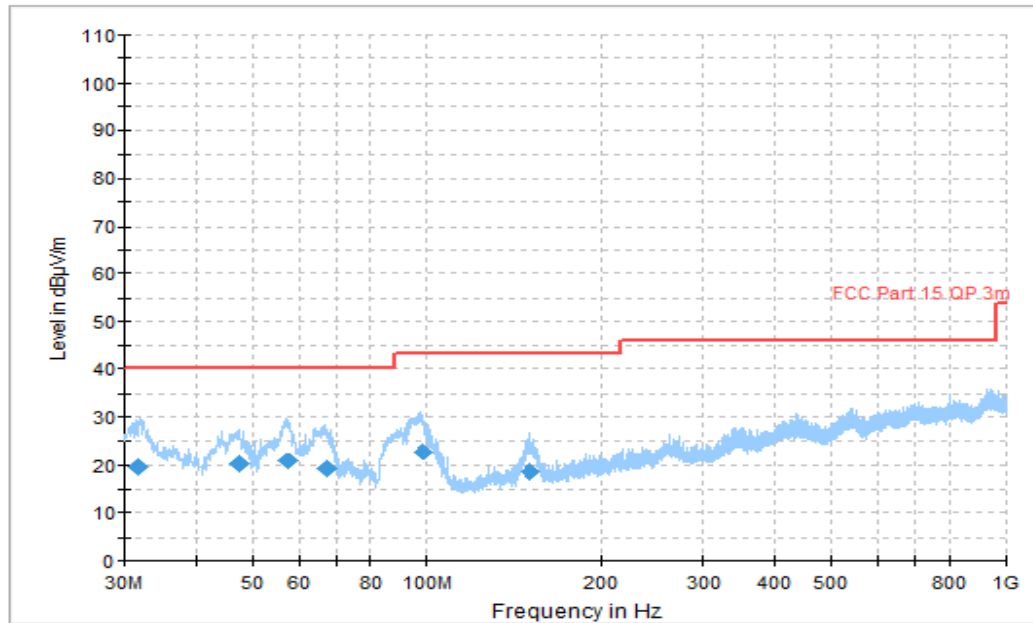


Figure A.1.13. Radiated Emission (Video Player , 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
31.508333	19.58	40.00	20.42	V	-6.7	26.28
47.484444	20.25	40.00	19.75	V	-14.9	35.15
57.472222	21.02	40.00	18.98	V	-16.0	37.02
67.406111	19.25	40.00	20.75	V	-14.9	34.15
98.223889	22.80	43.50	20.70	V	-14.2	37
150.597778	18.48	43.50	25.02	V	-12.6	31.08

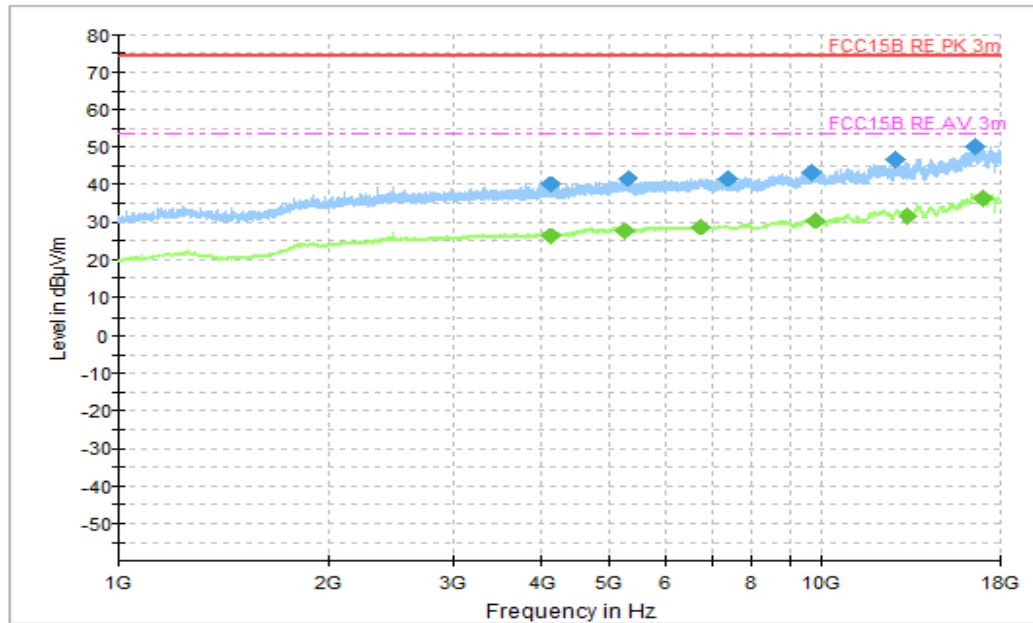


Figure A.1.14. Radiated Emission (Video Player , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
4119.000000	40.10	74.00	33.90	H	-1.4	41.50
5299.500000	41.59	74.00	32.41	V	1.6	39.99
7367.000000	41.93	74.00	32.07	V	3.6	38.33
9731.000000	43.60	74.00	30.40	V	6.4	37.20
12773.500000	46.67	74.00	27.33	H	8.8	37.87
16583.000000	49.94	74.00	24.06	V	14.8	35.14

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
4130.000000	26.29	54.00	27.71	H	-1.4	27.69
5248.500000	27.85	54.00	26.15	H	1.5	26.35
6752.500000	28.91	54.00	25.09	V	3.5	25.41
9857.500000	30.44	54.00	23.56	V	6.4	24.04
13301.500000	31.94	54.00	22.06	H	8.4	23.54
17003.500000	36.57	54.00	17.43	H	14.8	21.77

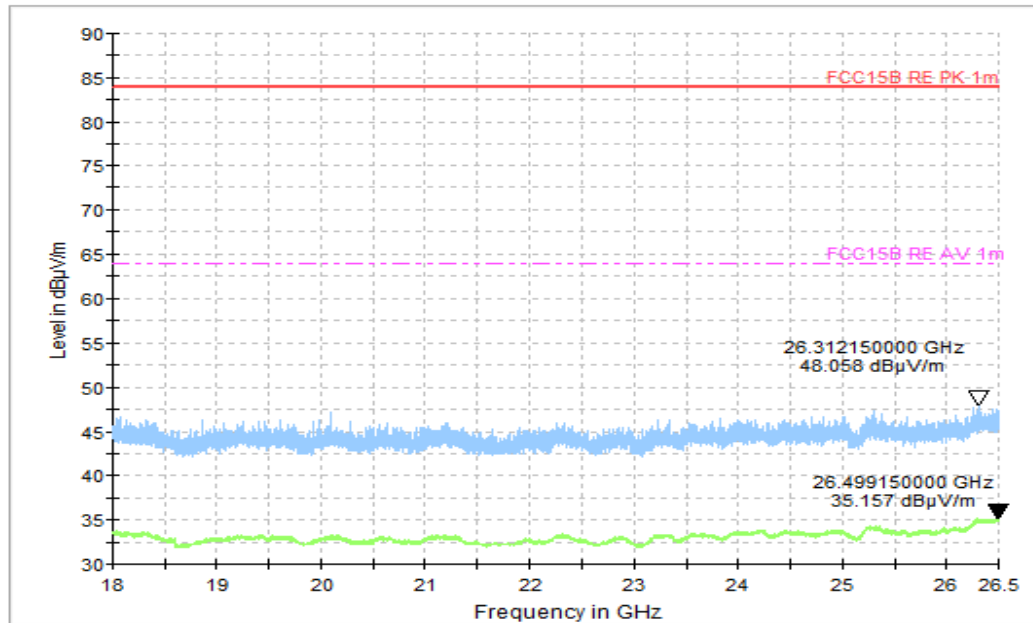


Figure A.1.15. Radiated Emission (Set.1, Video Player , 18GHz to 26.5GHz)

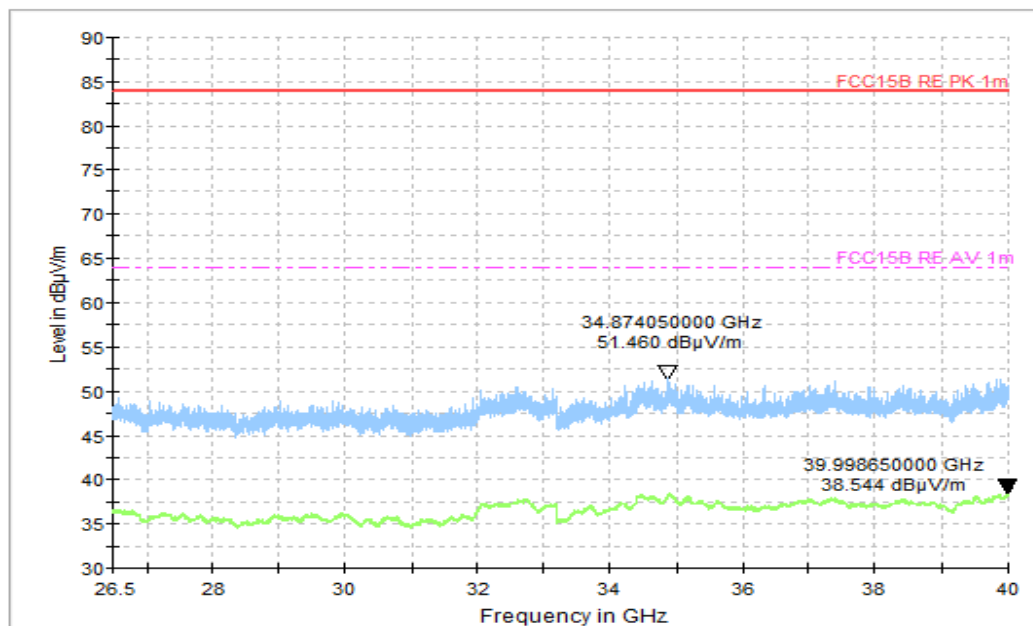


Figure A.1.16. Radiated Emission (Set.1, Video Player , 26.5GHz to 40GHz)

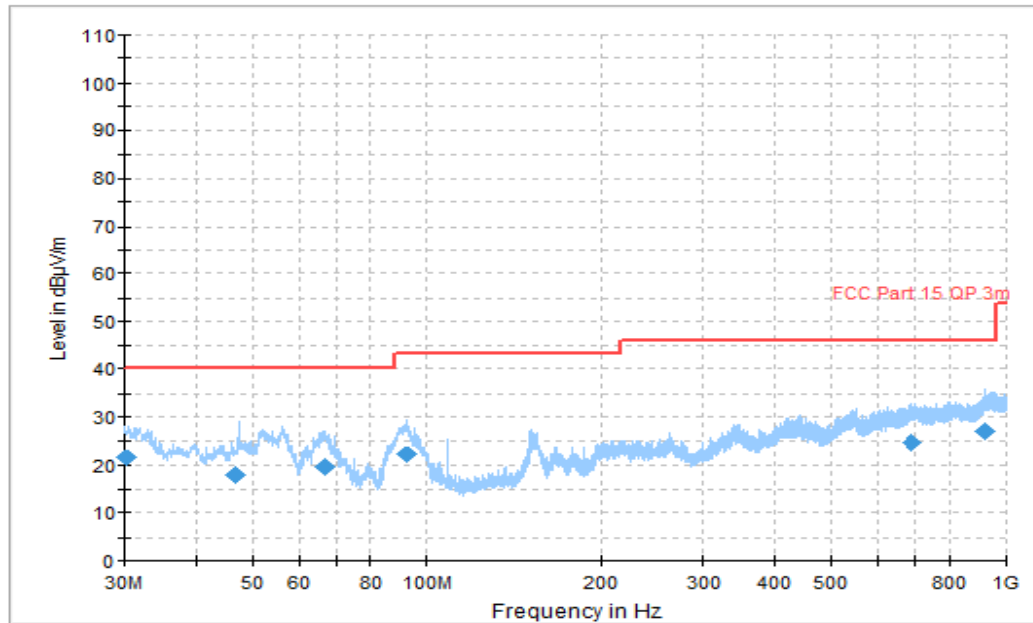


Figure A.1.17. Radiated Emission (Camera , 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
30.180000	21.41	40.00	18.59	V	-6.3	27.71
46.620556	17.96	40.00	22.04	V	-14.7	32.66
66.524444	19.66	40.00	20.34	V	-14.9	34.56
91.845556	22.29	43.50	21.21	V	-14.9	37.19
690.282778	24.96	46.00	21.04	V	1.0	23.96
923.801667	27.18	46.00	18.82	H	2.6	24.58

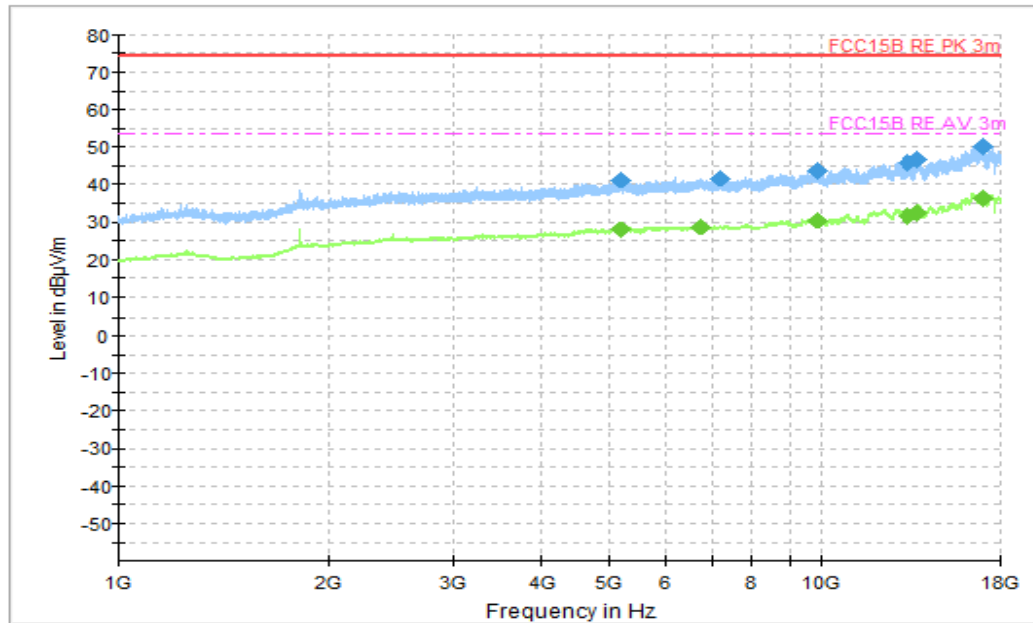


Figure A.1.18. Radiated Emission (Camera ,1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
5186.000000	41.20	74.00	32.80	V	1.3	39.90
7199.000000	41.70	74.00	32.30	V	3.4	38.3
9918.000000	43.70	74.00	30.30	H	6.3	37.40
13327.500000	45.81	74.00	28.19	H	8.4	37.41
13742.000000	46.61	74.00	27.39	V	8.9	37.71
17005.000000	50.11	74.00	23.89	V	14.8	35.31

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
5178.500000	27.98	54.00	26.02	H	1.2	26.78
6772.500000	28.97	54.00	25.03	H	3.5	25.47
9887.000000	30.59	54.00	23.41	V	6.4	24.19
13287.500000	31.85	54.00	22.15	V	8.3	23.55
13763.500000	32.82	54.00	21.18	V	9.0	23.82
16987.500000	36.42	54.00	17.58	H	14.8	21.62

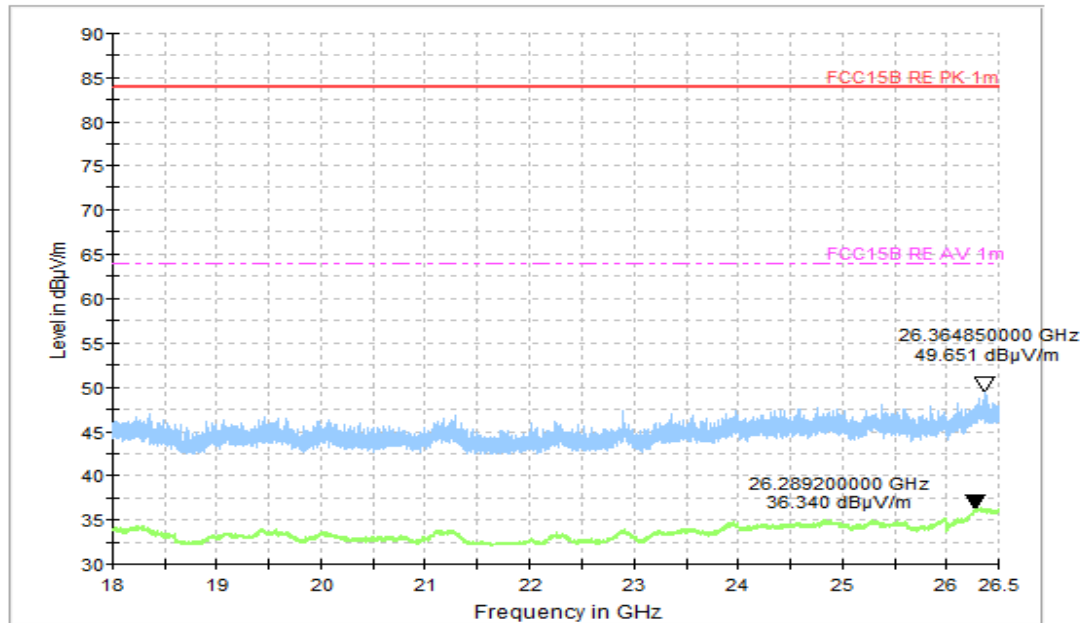


Figure A.1.19. Radiated Emission (Camera , 18GHz to 26.5GHz)

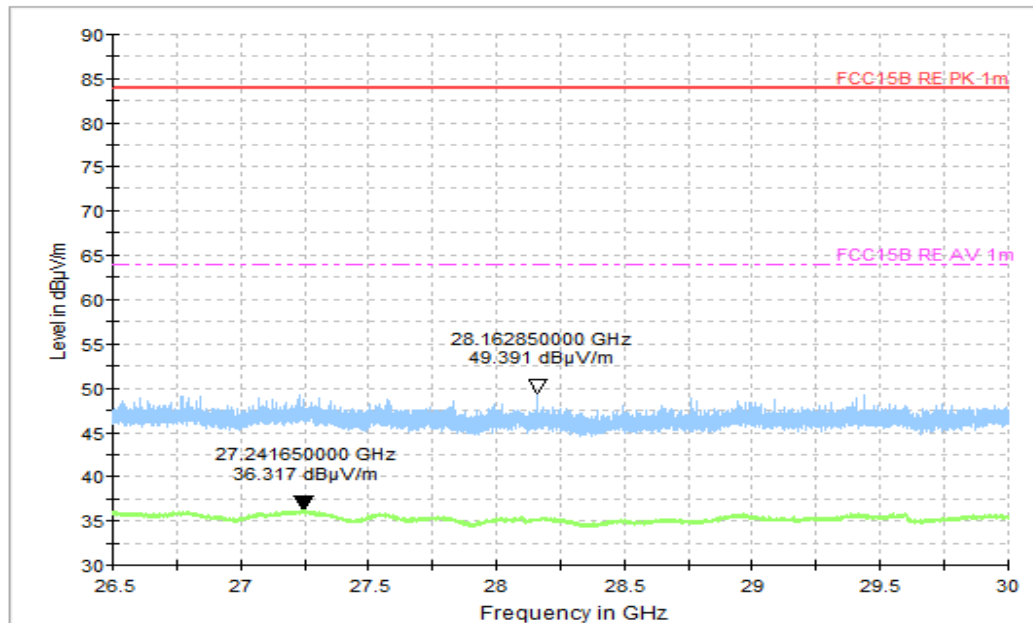


Figure A.1.20. Radiated Emission (Camera , 26.5GHz to 40GHz)

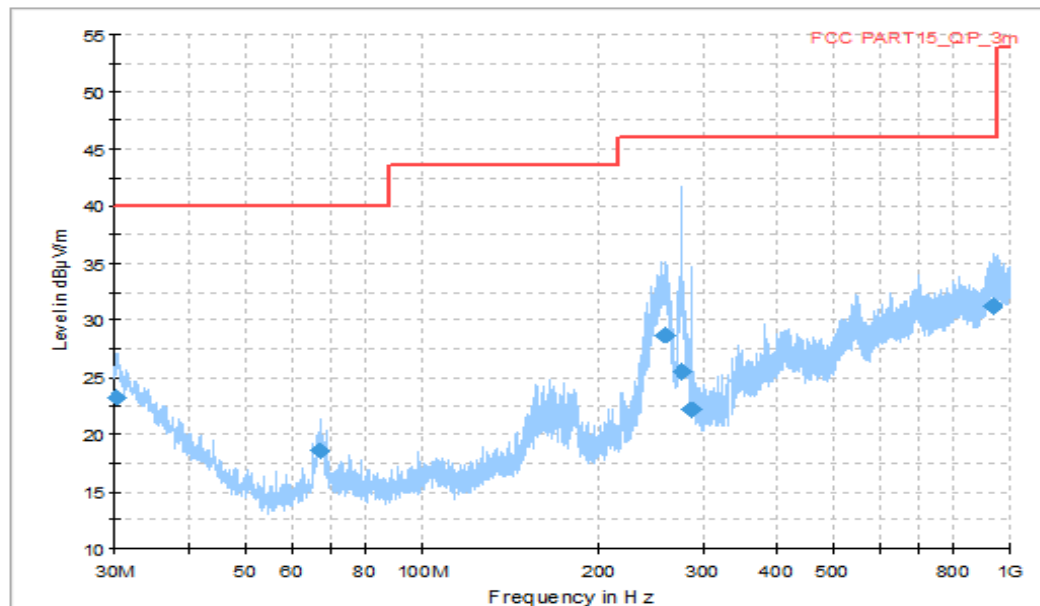


Figure A.1.21. Radiated Emission (Data Transfer : EUT to PC, 30MHz to 1GHz)

Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
30.240000	17.70	40.00	22.30	H	-6.3	24.00
67.806111	20.96	40.00	19.04	V	-14.9	35.86
81.362222	20.53	40.00	19.47	H	-15.2	35.73
464.249444	23.78	46.00	22.22	H	-3.4	27.18
658.950000	25.76	46.00	20.24	V	-0.1	25.86
951.816111	28.12	46.00	17.88	H	2.6	25.52

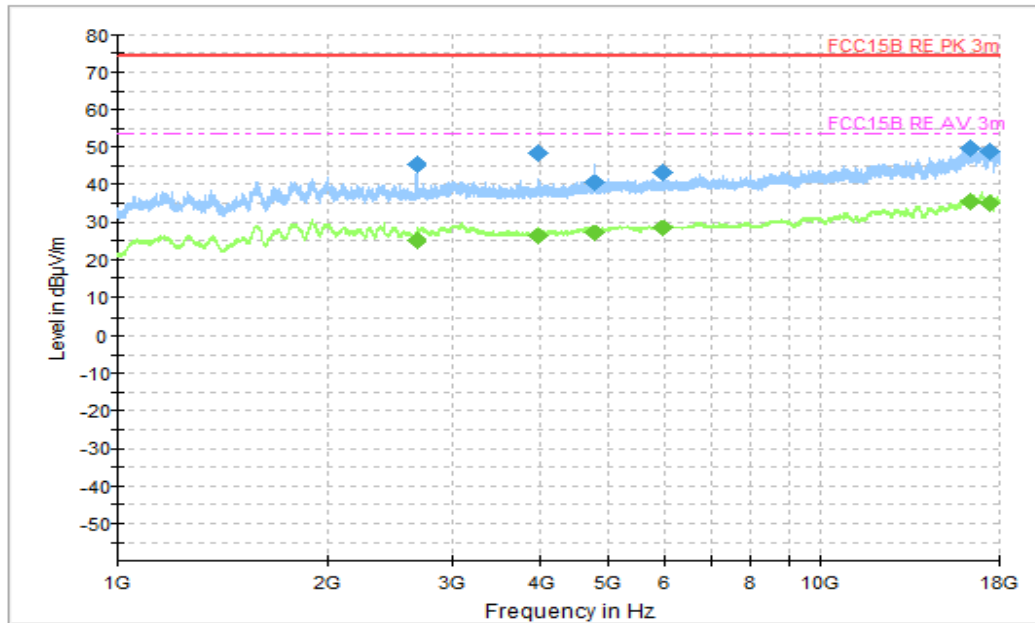


Figure A.1.22. Radiated Emission (Data Transfer : EUT to PC, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
2662.000000	45.69	74.00	28.31	V	-4.1	49.79
3985.500000	48.23	74.00	25.77	V	-1.8	50.03
4799.000000	40.54	74.00	33.46	V	0.2	40.34
5987.500000	43.32	74.00	30.68	V	2.7	40.62
16443.000000	49.69	74.00	24.31	H	14.7	34.99
17458.500000	48.94	74.00	25.06	H	14.1	34.84

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
2660.500000	25.29	54.00	28.71	V	-4.1	29.39
3985.500000	26.36	54.00	27.64	V	-1.8	28.16
4790.000000	27.23	54.00	26.77	V	0.2	27.03
5985.000000	28.47	54.00	25.53	V	2.7	25.77
16425.500000	35.65	54.00	18.35	V	14.6	21.05
17420.000000	35.10	54.00	18.90	H	14.1	21.00

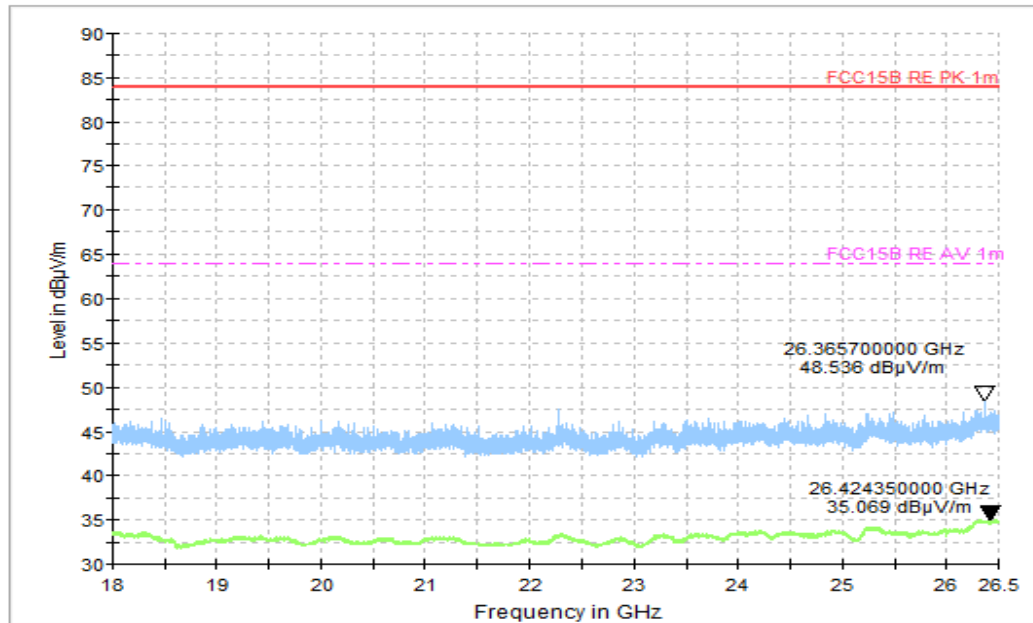


Figure A.1.23. Radiated Emission (Data Transfer : EUT to PC , 18GHz to 26.5GHz)

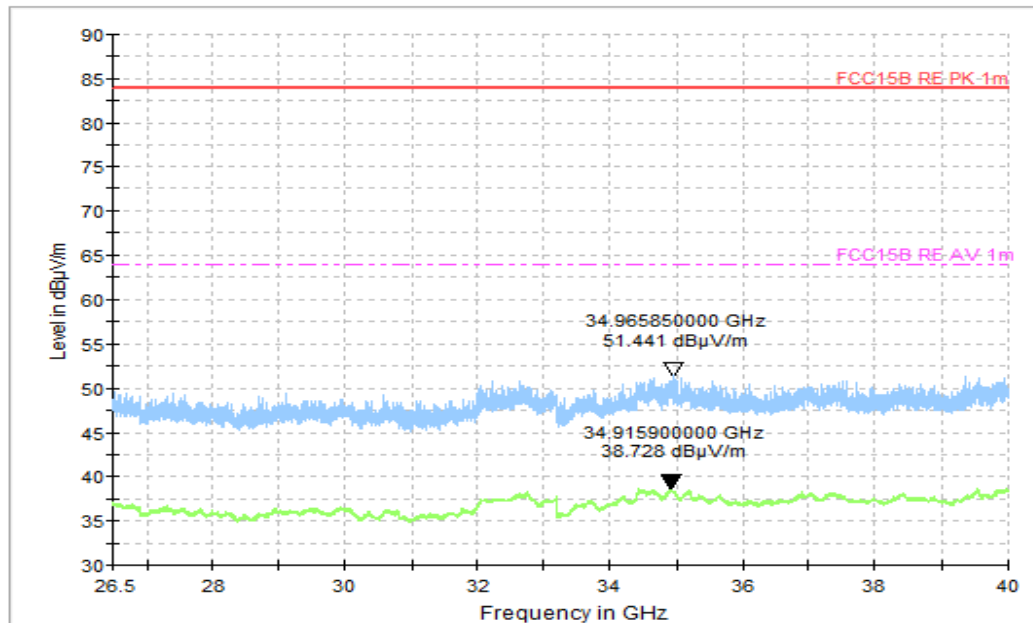


Figure A.1.24. Radiated Emission (Data Transfer : EUT to PC , 26.5GHz to 40GHz)

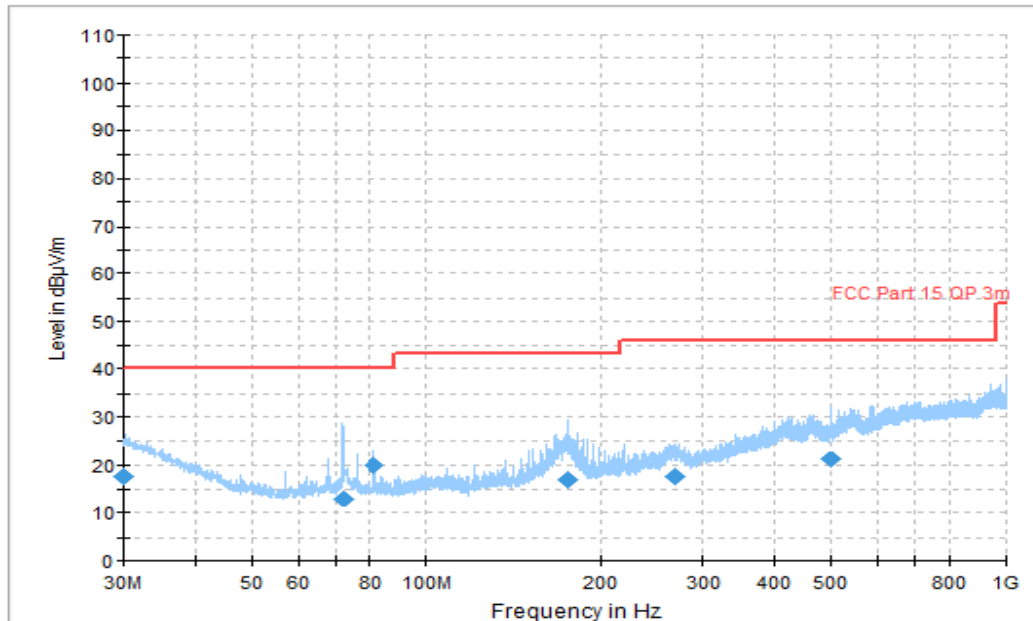


Figure A.1.25. Radiated Emission (Data Transfer : PC to EUT, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBμV)
30.030000	17.51	40.00	22.49	H	-6.3	23.81
72.046111	13.14	40.00	26.86	H	-14.7	27.84
81.356111	19.83	40.00	20.17	V	-15.2	35.03
175.518889	16.95	43.50	26.55	V	-12.2	29.15
268.320556	17.58	46.00	28.42	H	-8.0	25.58
498.988333	21.28	46.00	24.72	V	-3.1	25.58

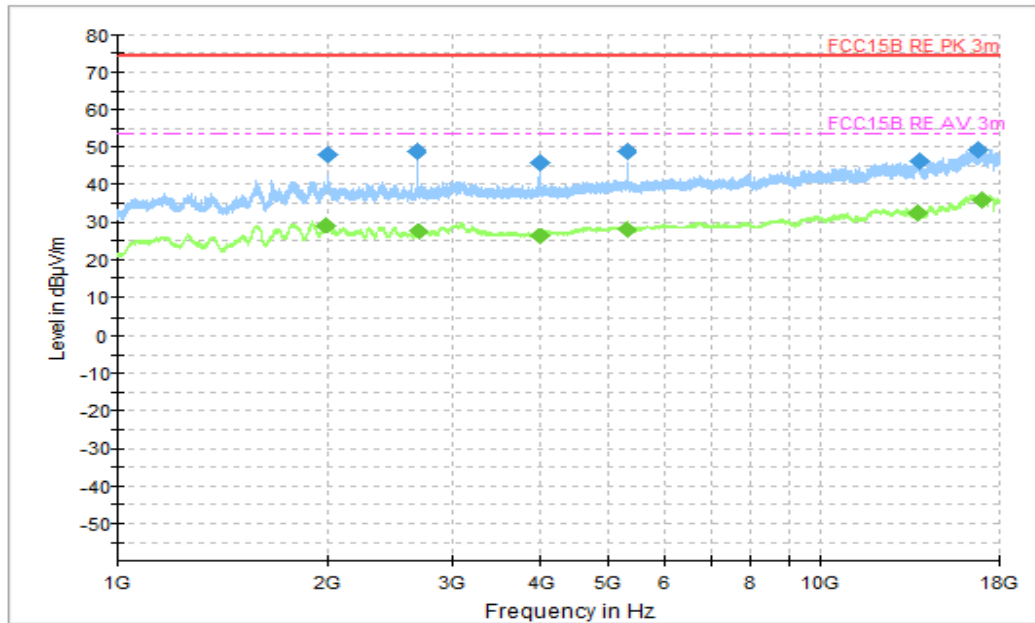


Figure A.1.26. Radiated Emission (Data Transfer : PC to EUT, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
1992.000000	48.14	74.00	25.87	V	-5.9	54.04
2666.000000	48.93	74.00	25.07	V	-4.1	53.03
3996.500000	45.89	74.00	28.11	V	-1.8	47.69
5312.000000	48.91	74.00	25.09	V	1.6	47.31
13898.000000	46.32	74.00	27.68	V	9.1	37.22
16857.000000	49.13	74.00	24.87	H	14.8	34.33

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBμV)
1977.500000	29.24	54.00	24.76	H	-6.1	35.34
2687.000000	27.54	54.00	26.46	H	-4.2	31.74
3994.000000	26.38	54.00	27.62	V	-1.8	28.18
5310.000000	28.17	54.00	25.83	V	1.6	26.57
13825.000000	32.53	54.00	21.47	H	9.0	23.53
17004.500000	35.96	54.00	18.04	V	14.8	21.16

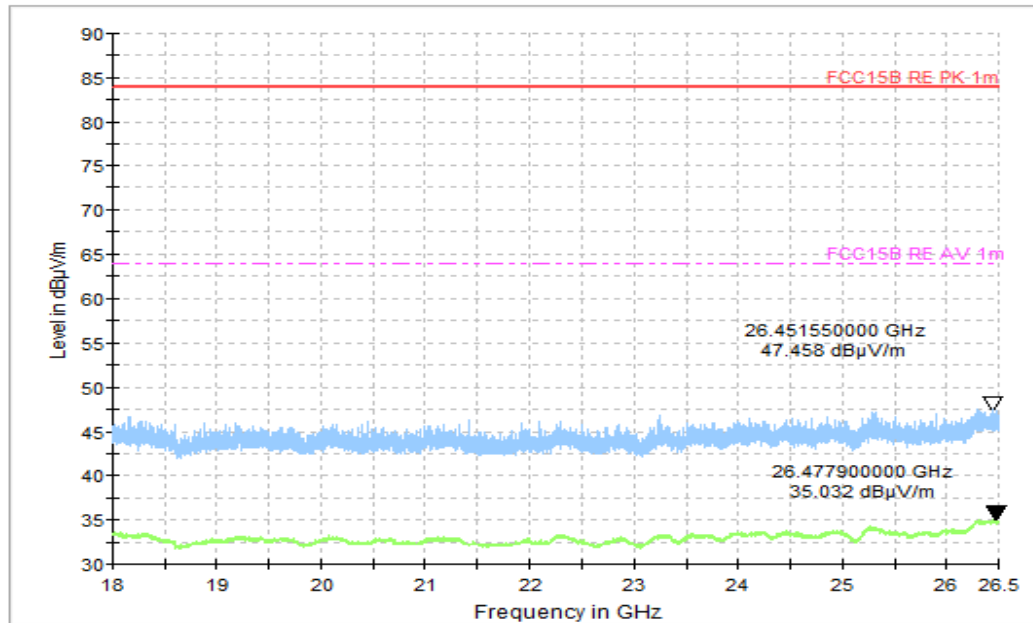


Figure A.1.27. Radiated Emission (Data Transfer : PC to EUT , 18GHz to 26.5GHz)

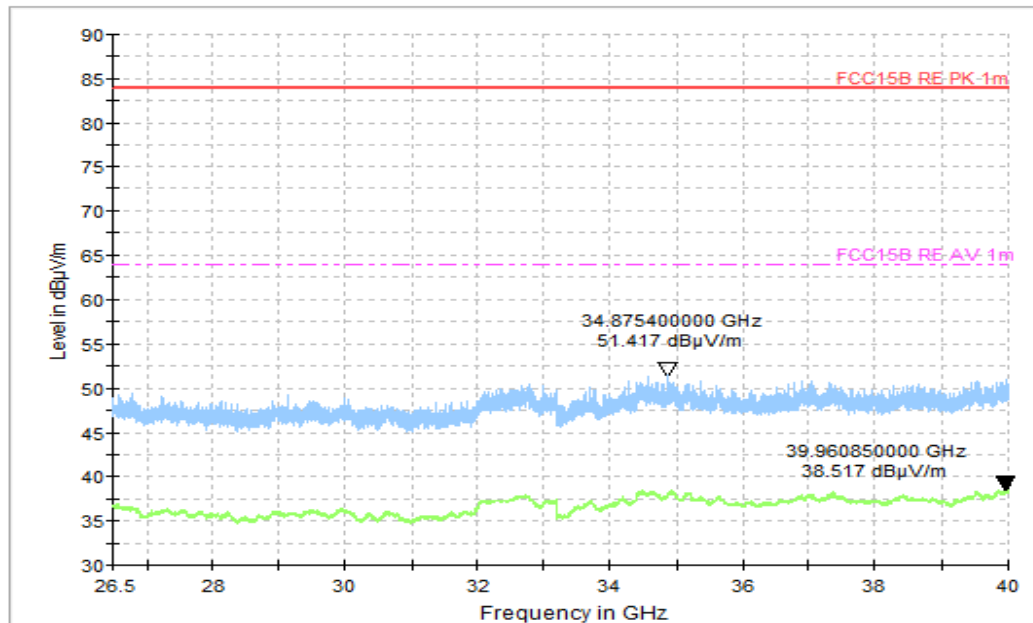


Figure A.1.28. Radiated Emission (Data Transfer : PC to EUT , 26.5GHz to 40GHz)

A.2 Conducted Emission (§15.107(a))**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 150kHz to 30MHz shall not exceed the limits. Tested in accordance with the procedures of ANSI C63.4 -2014, section 7.3.

A.2.2 EUT Operating :

Camera : At the beginning of measurement, the battery is completely discharged. The battery and charger are installed so that the EUT works well and keeping on taking photos.

Video Player : The EUT is connected to a charger for charging and keeping on playing mp3.

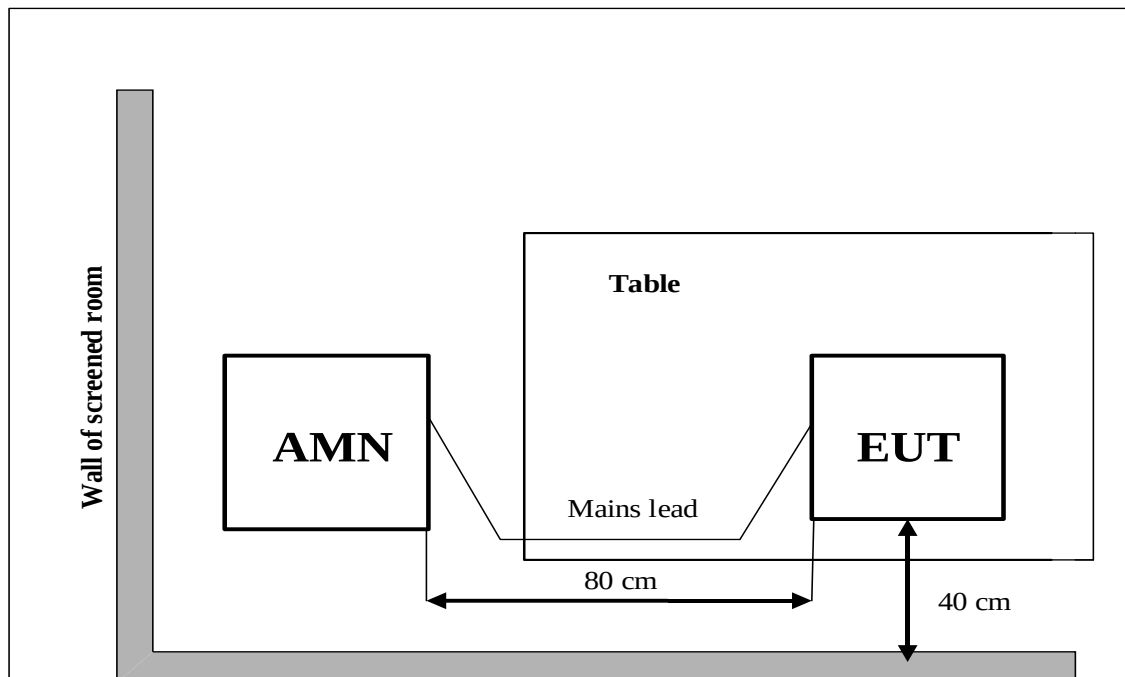
Data Transfer : The model of the PC is Lenovo ThinkPad T480, and the serial number of the PC is PF-13LW0C. The EUT is connected to a PC for transmitting data. The software is used to let the PC keep on copying data to MS or TF Card, reading and erasing the data after copy action was finished.

Meanwhile, the EUT is synchronized to System Simulator (SS), and able to respond to paging messages and incoming call. An established call has been released.

A.2.3 Measurement Limit

Frequency of emission (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency		

A.2.4 Test set-up:



A.2.5 Test Condition in charging mode

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

RBW	Sweep Time(s)
9kHz	1

A.2.6 Measurement Results

QuasiPeak(dBμV) /Average(dBμV) =PMea+Corr

Where

Corr: PathLoss + Voltage Division Factor

PMea: Measurement result on receiver.

Camera

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT06aa/Set.1	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.1	P
0.5 to 5	56	46		
5 to 30	60	50		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Camera

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT06aa/Set.2	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.2	P
0.5 to 5	56	46		
5 to 30	60	50		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Camera

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT06aa/Set.3	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.3	P
0.5 to 5	56	46		
5 to 30	60	50		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Camera

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT06aa/Set.4	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.4	P
0.5 to 5	56	46		
5 to 30	60	50		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Video Player

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT06aa/Set.1	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.5	P
0.5 to 5	56	46		
5 to 30	60	50		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Data Transfer

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Average Limit (dB μ V)	Result (dB μ V)	Conclusion
			UT06aa/Set.5	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.6	P
0.5 to 5	56	46		
5 to 30	60	50		

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Camera

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Average Limit (dB μ V)	Result (dB μ V)	Conclusion
			UT06aa/Set.1	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.7	P
0.5 to 5	56	46		
5 to 30	60	50		

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Camera

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Average Limit (dB μ V)	Result (dB μ V)	Conclusion
			UT06aa/Set.2	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.8	P
0.5 to 5	56	46		
5 to 30	60	50		

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Camera

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Average Limit (dB μ V)	Result (dB μ V)	Conclusion
			UT06aa/Set.3	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.9	P
0.5 to 5	56	46		
5 to 30	60	50		

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Camera

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT06aa/Set.4	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.10	P
0.5 to 5	56	46		
5 to 30	60	50		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Video Player

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT06aa/Set.1	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.11	P
0.5 to 5	56	46		
5 to 30	60	50		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Data Transfer

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			UT06aa/Set.5	
0.15 to 0.5	66 to 56	56 to 46	See Figure A.2.12	P
0.5 to 5	56	46		
5 to 30	60	50		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

AC Input Port/ Voltage: 120V/60Hz

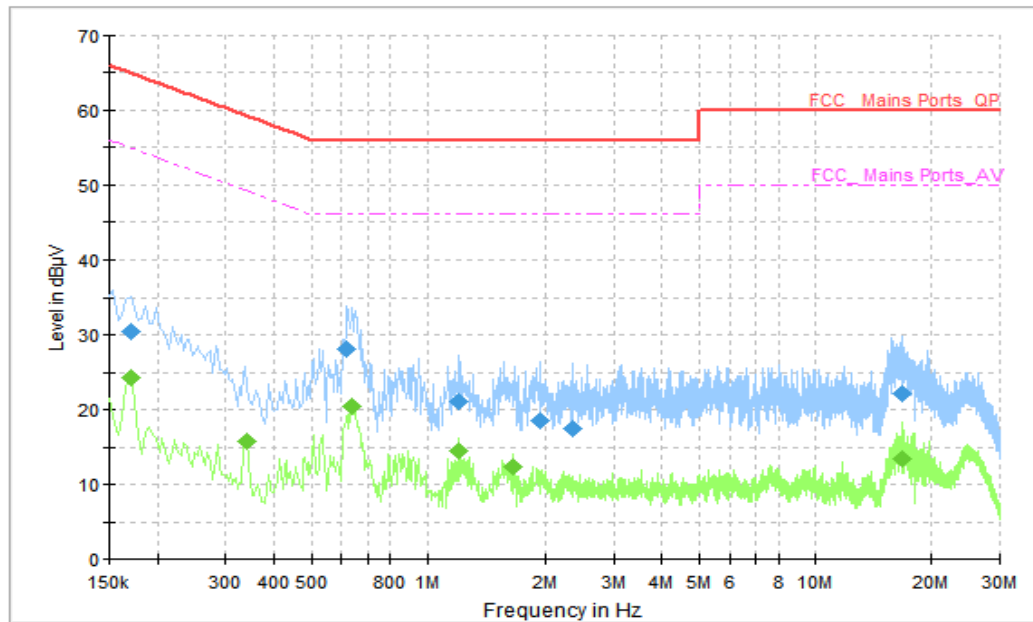


Figure A.2.1 Conducted Emission(Camera)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.170000	30.61	64.96	34.35	L1	10	20.61
0.618000	28.08	56.00	27.92	N	10	18.08
1.210000	21.14	56.00	34.86	N	10	11.14
1.930000	18.66	56.00	37.34	N	10	8.66
2.338000	17.45	56.00	38.55	N	10	7.45
16.690000	22.13	60.00	37.87	N	10	12.13

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.170000	24.38	54.96	30.58	L1	10	14.38
0.342000	15.74	49.16	33.42	L1	10	5.74
0.634000	20.50	46.00	25.50	N	10	10.50
1.210000	14.53	46.00	31.47	N	10	4.53
1.642000	12.36	46.00	33.64	N	10	2.36
16.694000	13.42	50.00	36.58	N	10	3.42

AC Input Port/ Voltage: 120V/60Hz

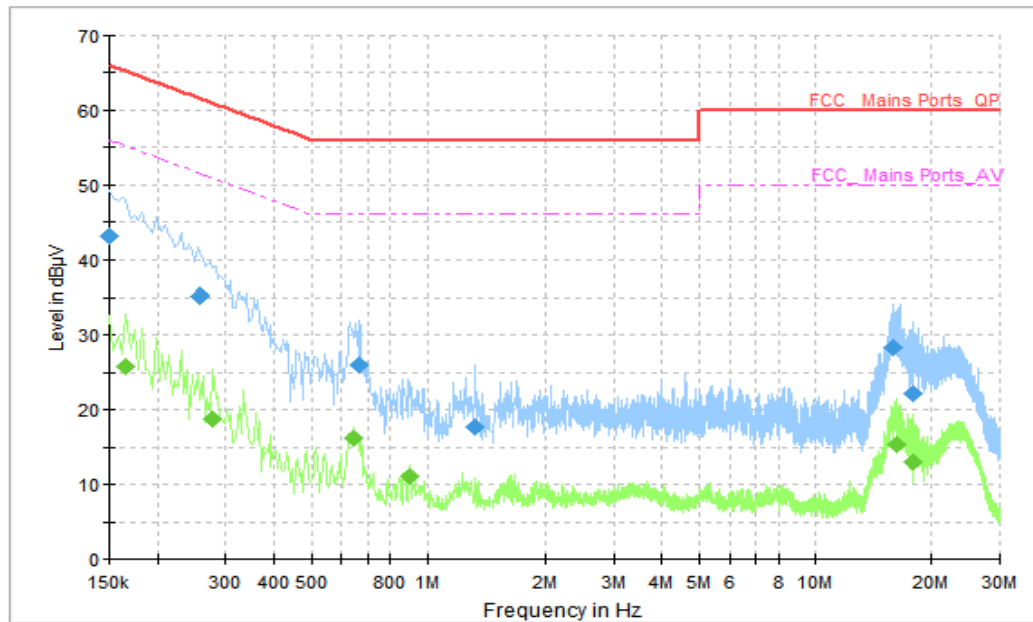


Figure A.2.2 Conducted Emission(Camera)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.150000	43.06	66.00	22.94	N	10	33.06
0.258000	35.22	61.50	26.27	N	10	25.22
0.666000	26.14	56.00	29.86	L1	10	16.14
1.326000	17.74	56.00	38.26	N	10	7.74
15.838000	28.45	60.00	31.55	L1	10	18.45
17.826000	22.24	60.00	37.76	L1	10	12.24

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.166000	25.81	55.16	29.35	N	10	15.81
0.278000	18.87	50.88	32.01	N	10	8.87
0.642000	16.14	46.00	29.86	N	10	6.14
0.898000	11.11	46.00	34.89	N	10	1.11
16.134000	15.44	50.00	34.56	L1	10	5.44
17.822000	13.05	50.00	36.95	L1	10	3.05

AC Input Port/ Voltage: 120V/60Hz

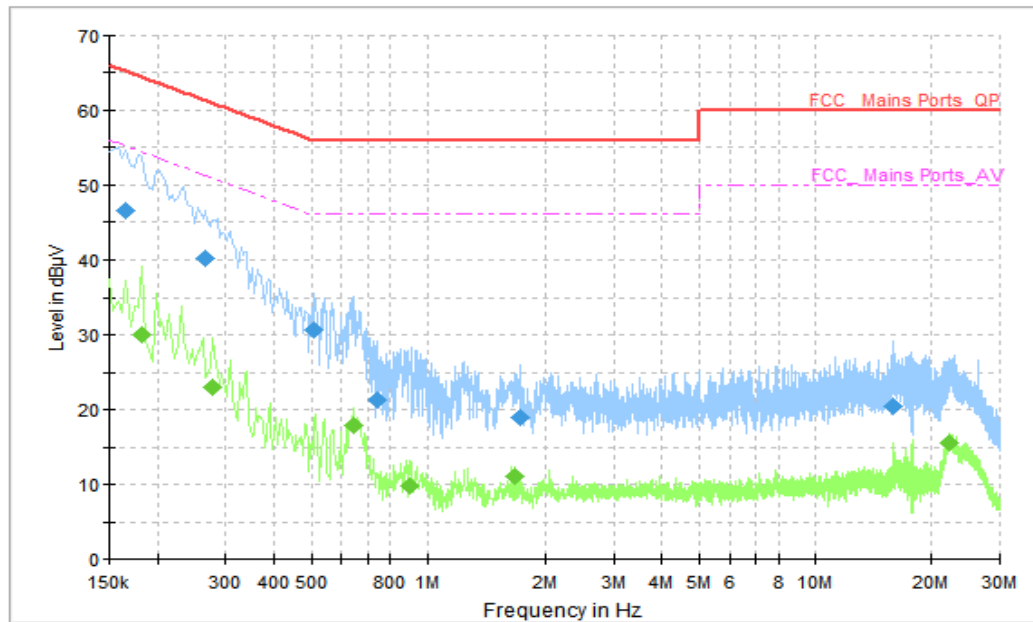


Figure A.2.3 Conducted Emission(Camera)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.166000	46.63	65.16	18.53	N	10	36.63
0.266000	40.17	61.24	21.07	N	10	30.17
0.510000	30.79	56.00	25.21	L1	10	20.79
0.738000	21.41	56.00	34.59	L1	10	11.41
1.714000	19.05	56.00	36.95	L1	10	9.05
15.858000	20.42	60.00	39.58	N	10	10.42

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.182000	30.12	54.39	24.27	N	10	20.12
0.278000	23.15	50.88	27.73	N	10	13.15
0.642000	17.91	46.00	28.09	N	10	7.91
0.898000	9.79	46.00	36.21	N	10	-0.21
1.662000	11.02	46.00	34.98	L1	10	1.02
22.118000	15.61	50.00	34.39	N	10	5.61

AC Input Port/ Voltage: 120V/60Hz

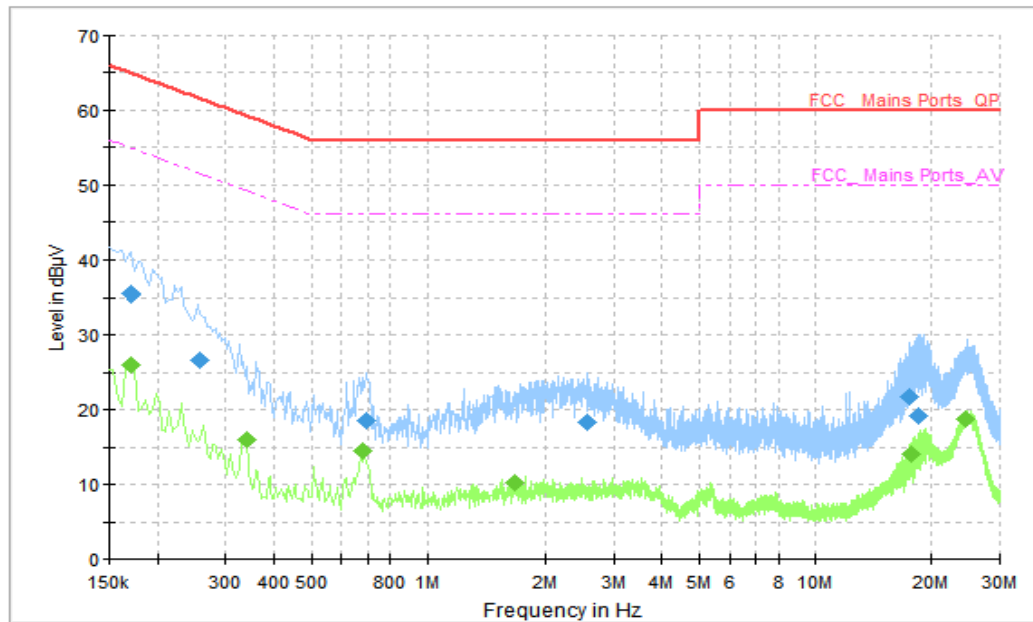


Figure A.2.4 Conducted Emission(Camera)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.170000	35.44	64.96	29.52	N	10	25.44
0.258000	26.78	61.50	34.72	N	10	16.78
0.694000	18.62	56.00	37.38	N	10	8.62
2.562000	18.42	56.00	37.58	N	10	8.42
17.534000	21.77	60.00	38.23	L1	10	11.77
18.546000	19.28	60.00	40.72	N	10	9.28

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.170000	26.11	54.96	28.85	L1	10	16.11
0.342000	16.10	49.16	33.05	L1	10	6.10
0.682000	14.49	46.00	31.51	L1	10	4.49
1.666000	10.27	46.00	35.73	L1	10	0.27
17.586000	13.99	50.00	36.01	L1	10	3.99
24.394000	18.75	50.00	31.25	N	10	8.75

AC Input Port/ Voltage: 120V/60Hz

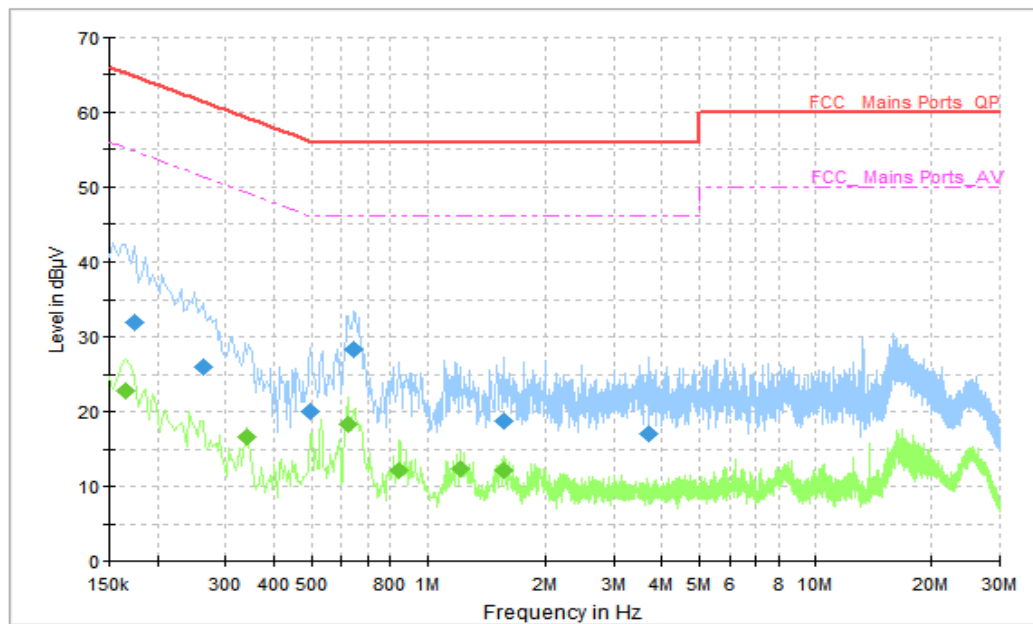


Figure A.2.5 Conducted Emission(Video Player)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.174000	32.07	64.77	32.69	N	10	22.07
0.262000	26.09	61.37	35.28	N	10	16.09
0.498000	20.11	56.03	35.92	N	10	10.11
0.646000	28.49	56.00	27.51	L1	10	18.49
1.566000	18.84	56.00	37.16	N	10	8.84
3.682000	17.02	56.00	38.98	N	10	7.02

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.166000	22.89	55.16	32.27	N	10	12.89
0.342000	16.54	49.16	32.62	L1	10	6.54
0.622000	18.39	46.00	27.61	N	10	8.39
0.846000	12.25	46.00	33.75	N	10	2.25
1.214000	12.42	46.00	33.58	N	10	2.42
1.558000	12.23	46.00	33.77	N	10	2.23

AC Input Port/ Voltage: 120V/60Hz

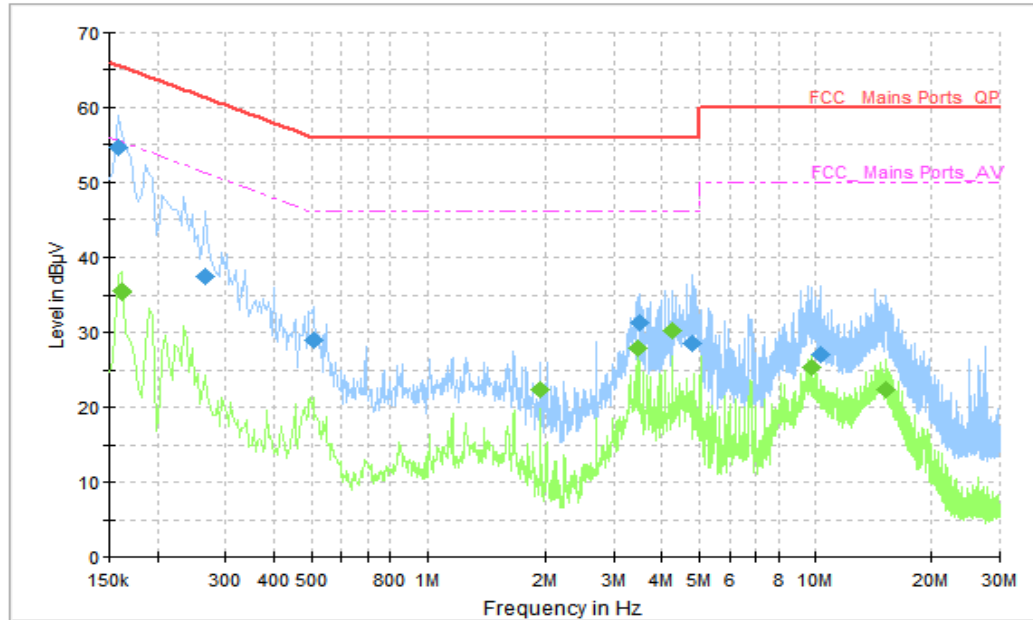


Figure A.2.6 Conducted Emission(Data Transfer)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.158000	54.56	65.57	11.01	L1	10	44.56
0.266000	37.35	61.24	23.89	N	10	27.35
0.506000	29.00	56.00	27.00	N	10	19.00
3.486000	31.27	56.00	24.73	L1	10	21.27
4.766000	28.52	56.00	27.48	N	10	18.52
10.358000	27.11	60.00	32.89	L1	10	17.11

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.162000	35.49	55.36	19.88	N	10	25.49
1.934000	22.39	46.00	23.61	N	10	12.39
3.482000	27.91	46.00	18.09	N	10	17.91
4.258000	30.32	46.00	15.68	N	10	20.32
9.738000	25.38	50.00	24.62	L1	10	15.38
15.138000	22.33	50.00	27.67	N	10	12.33

AC Input Port/ Voltage: 240V/60Hz

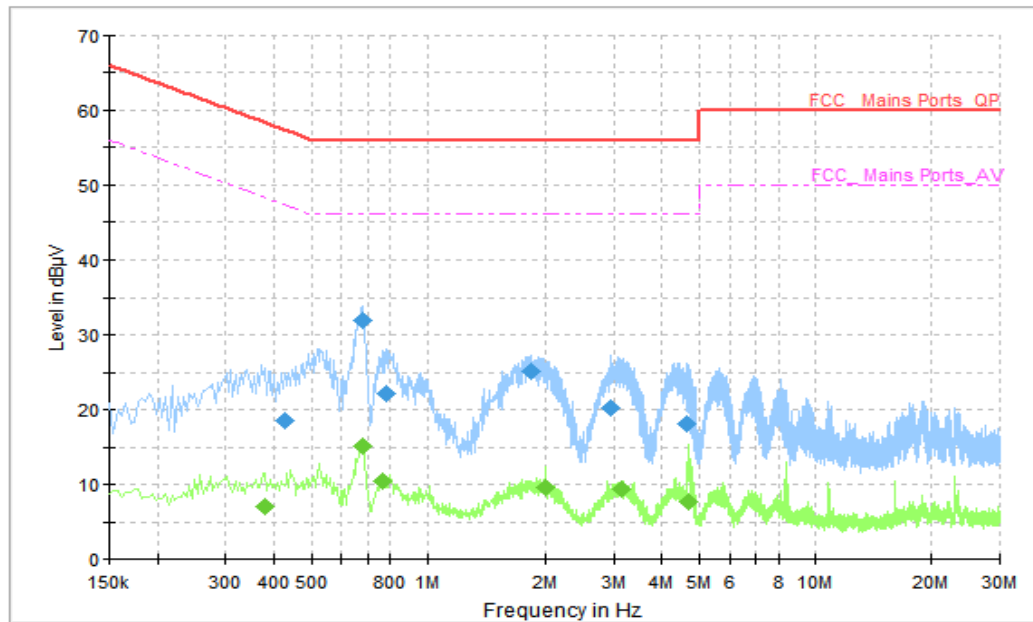


Figure A.2.7 Conducted Emission(Camera)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.426000	18.56	57.33	38.77	N	10	8.56
0.678000	31.97	56.00	24.03	N	10	21.97
0.778000	22.19	56.00	33.81	N	10	12.19
1.826000	25.24	56.00	30.76	N	10	15.24
2.950000	20.18	56.00	35.82	N	10	10.18
4.662000	18.07	56.00	37.93	N	10	8.07

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.378000	7.10	48.32	41.23	L1	10	-2.90
0.678000	15.22	46.00	30.78	L1	10	5.22
0.762000	10.44	46.00	35.56	L1	10	0.44
1.994000	9.61	46.00	36.39	L1	10	-0.39
3.138000	9.35	46.00	36.65	L1	10	-0.65
4.670000	7.69	46.00	38.31	L1	10	-2.31

AC Input Port/ Voltage: 240V/60Hz

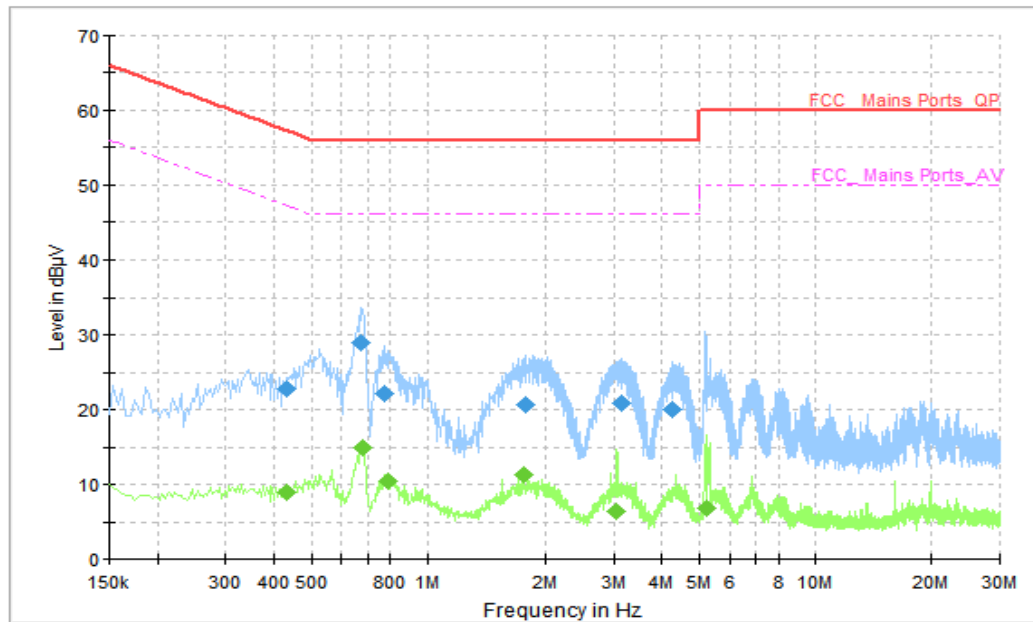


Figure A.2.8 Conducted Emission(Camera)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.430000	22.83	57.25	34.43	N	10	12.83
0.674000	29.03	56.00	26.97	N	10	19.03
0.774000	22.14	56.00	33.86	N	10	12.14
1.766000	20.71	56.00	35.29	N	10	10.71
3.158000	20.95	56.00	35.05	N	10	10.95
4.258000	20.01	56.00	35.99	N	10	10.01

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.430000	9.01	47.25	38.24	L1	10	-0.99
0.682000	15.01	46.00	30.99	L1	10	5.01
0.790000	10.55	46.00	35.45	L1	10	0.55
1.754000	11.41	46.00	34.59	L1	10	1.41
3.050000	6.50	46.00	39.50	L1	10	-3.5
5.198000	6.87	50.00	43.13	L1	10	-3.13

AC Input Port/ Voltage: 240V/60Hz

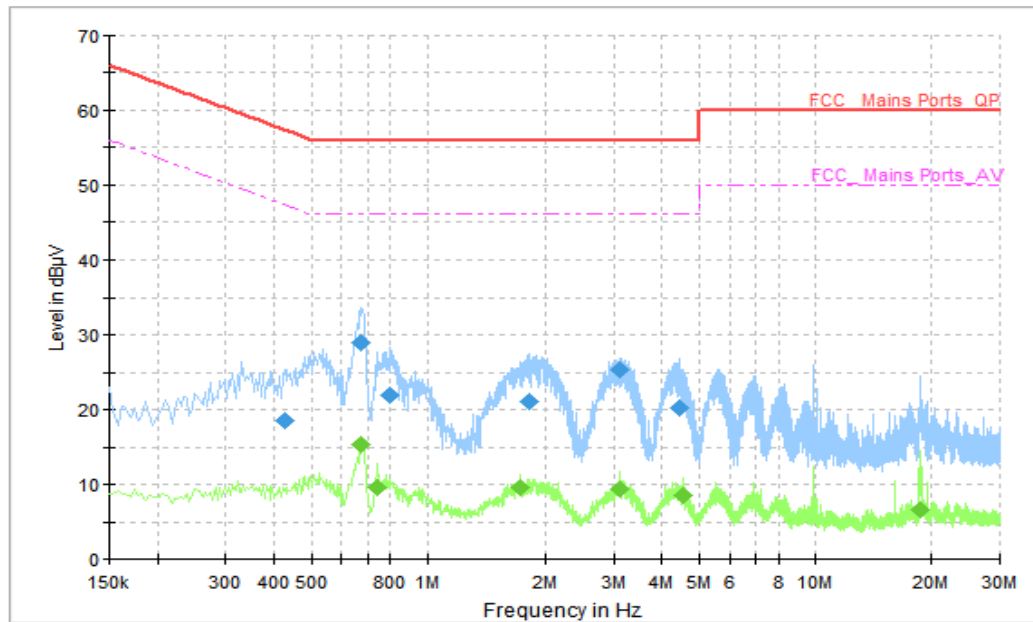


Figure A.2.9 Conducted Emission(Camera)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.426000	18.48	57.33	38.85	N	10	8.48
0.674000	29.12	56.00	26.88	N	10	19.12
0.798000	22.00	56.00	34.00	N	10	12.00
1.822000	21.12	56.00	34.89	N	10	11.12
3.106000	25.48	56.00	30.52	N	10	15.48
4.438000	20.20	56.00	35.80	N	10	10.20

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.674000	15.36	46.00	30.64	N	10	5.36
0.742000	9.55	46.00	36.45	N	10	-0.45
1.722000	9.53	46.00	36.47	N	10	-0.47
3.106000	9.41	46.00	36.59	N	10	-0.59
4.534000	8.55	46.00	37.45	N	10	-1.45
18.742000	6.64	50.00	43.36	N	10	-3.36

AC Input Port/ Voltage: 240V/60Hz

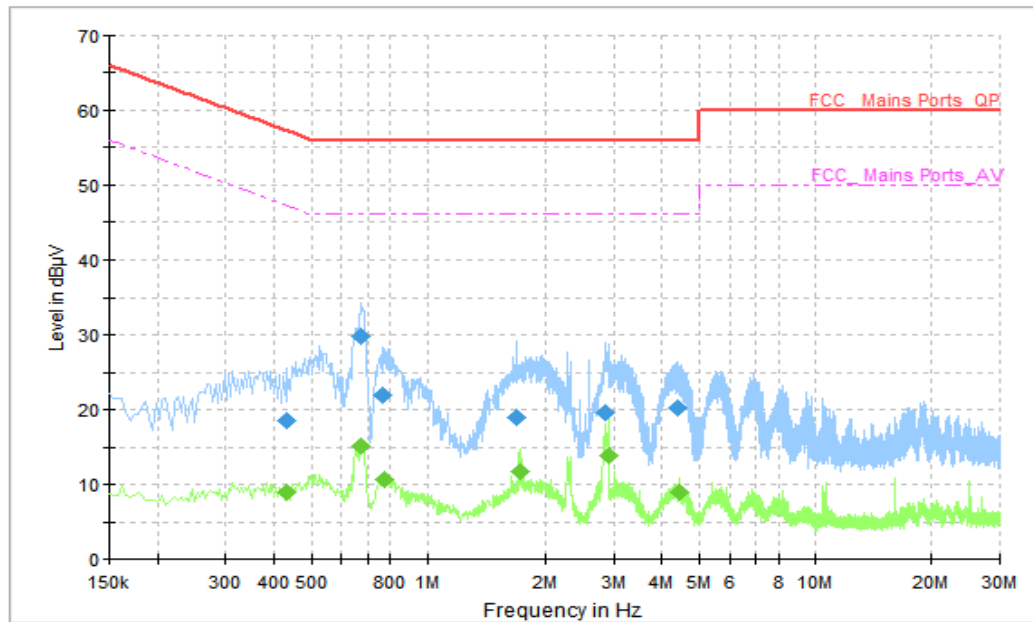


Figure A.2.10 Conducted Emission(Camera)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.430000	18.51	57.25	38.75	N	10	8.51
0.674000	29.85	56.00	26.15	N	10	19.85
0.766000	22.03	56.00	33.97	N	10	12.03
1.682000	18.90	56.00	37.10	L1	10	8.90
2.854000	19.64	56.00	36.36	N	10	9.64
4.378000	20.27	56.00	35.73	N	10	10.27

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.430000	9.02	47.25	38.23	N	10	-0.98
0.674000	15.12	46.00	30.88	N	10	5.12
0.774000	10.61	46.00	35.40	N	10	0.61
1.714000	11.75	46.00	34.25	L1	10	1.75
2.906000	13.87	46.00	32.13	N	10	3.87
4.454000	8.95	46.00	37.05	N	10	-1.05

AC Input Port/ Voltage: 240V/60Hz

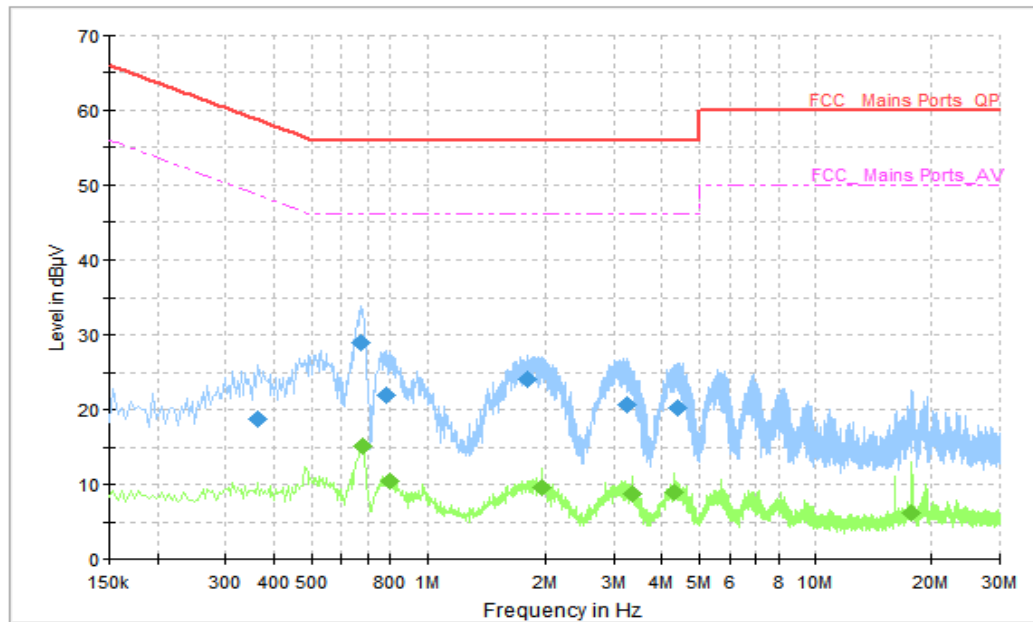


Figure A.2.11 Conducted Emission(Video Player)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.362000	18.86	58.68	39.82	N	10	8.86
0.674000	29.07	56.00	26.93	N	10	19.07
0.782000	22.03	56.00	33.97	N	10	12.03
1.798000	24.13	56.00	31.87	N	10	14.13
3.234000	20.64	56.00	35.36	N	10	10.64
4.378000	20.32	56.00	35.68	N	10	10.32

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.682000	15.05	46.00	30.95	N	10	5.05
0.798000	10.41	46.00	35.59	N	10	0.41
1.954000	9.69	46.00	36.31	N	10	-0.31
3.338000	8.69	46.00	37.31	N	10	-1.31
4.290000	9.03	46.00	36.97	N	10	-0.97
17.754000	6.18	50.00	43.82	N	10	-3.82

AC Input Port/ Voltage: 240V/60Hz

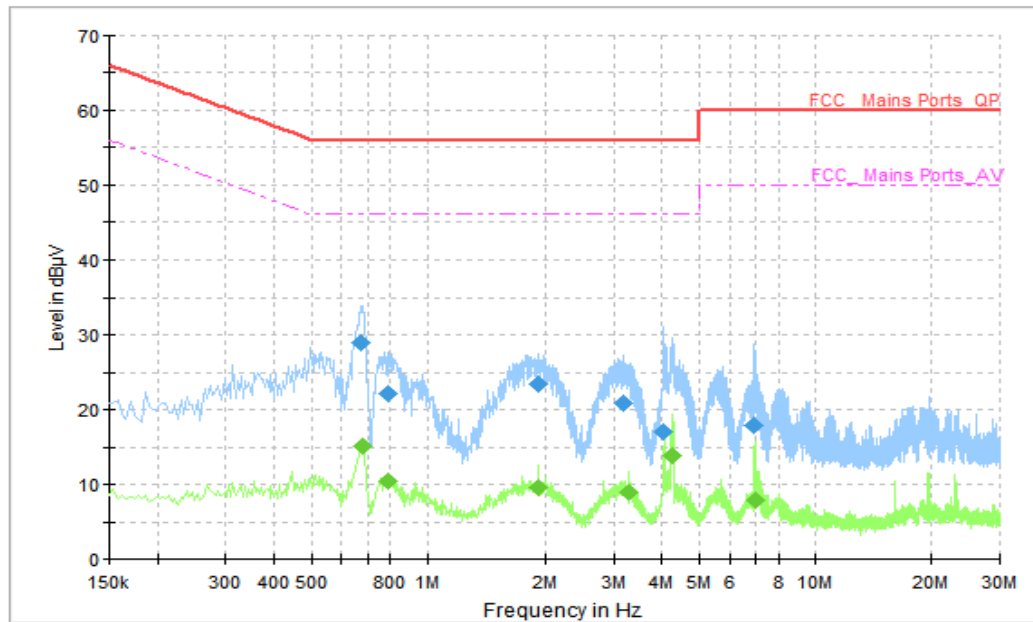


Figure A.2.12 Conducted Emission(Data Transfer)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.674000	28.98	56.00	27.02	N	10	18.98
0.790000	22.12	56.00	33.88	N	10	12.12
1.914000	23.58	56.00	32.42	N	10	13.58
3.178000	20.97	56.00	35.03	N	10	10.97
4.014000	17.03	56.00	38.97	N	10	7.03
6.910000	17.87	60.00	42.13	N	10	7.87

Final_Result_AVG

Frequency (MHz)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)	PMea (dBμV)
0.682000	15.09	46.00	30.91	N	10	5.09
0.790000	10.45	46.00	35.55	N	10	0.45
1.914000	9.67	46.00	36.33	N	10	-0.33
3.298000	8.88	46.00	37.12	N	10	-1.12
4.250000	13.92	46.00	32.08	N	10	3.92
6.954000	7.80	50.00	42.20	N	10	-2.20

END OF REPORT