TEST REPORT

No.24T04N001537-010-EMC

for

Realme Chongqing Mobile Telecommunications Corp., Ltd.

Mobile Phone

Model Name：RMX5011

With

Hardware Version: 11

Software Version: realme UI 6.0

FCC ID:2AUYFRMX5011

Issued Date: 2024-10-11

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:

SAICT, Shenzhen Academy of Information and Communications Technology

Building G, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian District, Shenzhen, Guangdong, P. R. China. 518000.

Tel:+86(0)755-33322000, Fax:+86(0)755-33322001

Email: yewu@caict.ac.cn. www.saict.ac.cn

REPORT HISTORY

Report Number	Revision	Description	Issue Date
24T04N001537-010-EMC	Rev.0	1st edition	2024-10-11

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

CONTENTS

1. SUMMARY OF TEST REPORT

1.1. Test Items

Description	Mobile Phone
Model Name	RMX5011
Applicant's name	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Manufacturer's Name	Realme Chongqing Mobile Telecommunications Corp., Ltd.

1.2. Test Standards

FCC Part 15, Subpart B (10-1-2021 Edition); ANSI C63.4-2014.

1.3. Test Result

Total test 2 items, pass 2 items. Please refer to "6.2 Test Results".

1.4. Testing Location

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

1.5. Project data

Testing Start Date: 2024-08-07 Testing End Date: 2024-09-24

1.6. Signature

Huang Kaiyang
(Prepared this test report)

Huang Yuqing
(Reviewed this test report)

Cao Junfei
(Approved this test report)

2. CLIENT INFORMATION

2.1. Applicant Information

Company Name:	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address:	No.178 Yulong Avenue,Yufengshan,Yubei District,Chongqing,China
Contact	HuangMinJiang
Email	mega@realme.com
Tel.	(86)18502096102
Fax	/

2.2. Manufacturer Information

Company Name:	Realme Chongqing Mobile Telecommunications Corp., Ltd.
Address:	No.178 Yulong Avenue,Yufengshan,Yubei District,Chongqing,China
Contact	HuangMinJiang
Email	mega@realme.com
Tel.	(86)18502096102
Fax	/

3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE)

3.1. About EUT

Description	Mobile Phone
Model Name	RMX5011
FCC ID	2AUYFRMX5011
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
UT06aa	866186070019674 866186070019666	11	realme UI 6.0	2024-08-07

*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	Charger
AE3	USB Cable

AE1

Model	BLPB33
Manufacturer	Sunwoda Electronic CO.,LTD.
Capacity	3155mAh
Nominal Voltage	7.64V

AE2-1

Model	VCBBOAUH
Manufacturer	Huizhou Golden Lake Industrial Co., Ltd.
Specification	American Standard Charger

AE2-2

Model	VCBBOAUH
Manufacturer	Dongguan Aohai Technology Co.,Ltd.
Specification	American Standard Charger

AE3

Model	DL153
Manufacturer	/

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

*AE Label: To distinguish the type and number of AE
AE: ancillary equipment
AE2, AE3: Just for testing.

3.4. EUT Set-ups

EUT set-up No.	Combination of EUT and AE	Remarks
Set.1	EUT+AE1+AE2-1+AE3	
Set.2	EUT+AE1+AE3+PC+Mouse+Printer	
Set.3	EUT+AE1+AE2-2+AE3	

3.5. General Description

The Equipment Under Test (EUT) is a model of Mobile Phone with internal antenna.
It supports GSM 850/900/1800/1900MHz, WCDMA Bands 1/2/4/5/6/8/19, LTE Bands 1/2/3/4/5/7/8/12/13/17/18/19/20/26/28/38/39/40/41/66/CA_7C/CA_38C/CA_41C/ ULCA_2A+4A/ULCA_2A-7A/ULCA_4A-7A/, NR Bandsn1/n2/n3/n5/n7/n8/n20/n28A/n28B/n38/n40/n41/n77/n78 and EN-DC Bands DC_7A_n2A/DC_66A_n2A/DC_7A_n5A/DC_66A_n5A/DC_2A_n7A/DC_4A_n7A/DC_5A_n7A/DC_66A_n7A/DC_4A_n38A/DC_5A_n38A/DC_66A_n38A/DC_4A_n41A/DC_26A_n41A/DC_66A_n41A/DC_2A_n66A/DC_5A_n66A/DC_7A_n66A/DC_12A_n66A/CA_n5A_n7A.
It has MP3, NFC, Camera, USB memory, Bluetooth, Wi-Fi. Scanner, printer and GNSS functions.
It consists of normal options: Battery, Charge and Data Cable.
Manual and specifications of the EUT were provided to fulfill the test.
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	(10-1-2021 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

Anechoic chamber (FACT3-2.0) 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> 60 dB; 1MHz-18000MHz>90 dB
Electrical insulation	> 2MΩ
Ground system resistance	< 4Ω
Normalised site attenuation (NSA)	< ±4 dB, 3 m distance, from 30 to 1000 MHz
Voltage Standing Wave Ratio （VSWR）	≤ 6 dB, from 1 to 18 GHz，3 m distance
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

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

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

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/IC rules	Section in this report	Verdict
1	Radiated Emission	15.109(a)/ Section 6.2	A.1	P
2	Conducted Emission	15.107(a)/ Section 6.1	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	4.80dB(*k*=2)
	1GHz-18GHz	4.62dB(*k*=2)
Conducted Emission	150kHz-30MHz	2.68dB(*k*=2)

8. MEASURING APPARATUS UTILIZED

No.	Name	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1.	Test Receiver	ESR7	101676	R&S	2024.11.22	1 year
2.	Test Receiver	ESCI	100702	R&S	2025.01.10	1 year
3.	Spectrum Analyzer	FSV40	101192	R&S	2025.01.12	1 year
4.	Hybrid antenna	VULB 9163	330	Schwarzbeck	2027.04.21	3 years
5.	Horn Antenna	3117	00066577	ETS-Lindgren	2025.04.17	3 years
6.	LISN	ENV216	102067	R&S	2024.10.07	1 year
7.	Anechoic Chamber	FACT3-2.0	1285	ETS-Lindgren	2025.05.28	2 years
8.	Universal Radio Communication Tester	CMU200	114545	R&S	2025.01.10	1 year
9.	Universal Radio Communication Tester	CMW500	152499	R&S	2025.07.11	1 year
10.	Universal Radio Communication Tester	MT8821C	6262025268	Anritsu	2025.03.05	1 year
11.	Universal Radio Communication Tester	MT8000A	6261987936	Anritsu	2025.03.13	1 year
12.	Horn Antenna	QSH-SL-18-26-S-20	17013	Q-par	2026.02.01	3 years
13.	Horn Antenna	QSH-SL-8-26-40-K-20	17014	Q-par	2026.01.30	3 years

9. TEST ACCESSORY UTILIZED

No.	Name	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1.	PC	ThinkPad T480	PF-13LW0C	Lenovo	/	/
2.	Printer	P1008	VNF6C12491	HP	/	/
3.	Mouse	MOEUUOA	44NY517	Lenovo	/	/

10. MEASURING SOFTWARE

No.	Name	Manufacturer	Version
1	EMC32	Rohde & Schwarz	V10.50.40

ANNEX A: MEASUREMENT RESULTS

A.1 Radiated Emission (§15.109(a))

Reference

FCC: Part 15.109(a)

A.1.1 Method of measurement

The field strength of radiated emissions from the unintentional radiator at a distance of 3 meters or 1 meter 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. Below 18GHz the measurement antenna was placed at a distance of 3 meters from the EUT. Above 18GHz the measurement antenna was placed at a distance of 1 meters from the EUT. (According to Part 15.31(f)(1), 1m limit is calculated by extrapolation factor of 20 dB/decade) 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 EUT or USB flash disk reading and erasing the data after copy action was finished.

GSM receiver: The EUT is connected to a charger for charging. The EUT is synchronized to System Simulator (SS), and able to respond to paging messages and incoming call. An established call has been released.

WCDMA receiver: The EUT is connected to a charger for charging. The EUT is synchronized to System Simulator (SS), and able to respond to paging messages and incoming call. An established call has been released.

LTE receiver: The EUT is connected to a charger for charging. The EUT is synchronized to System Simulator (SS), and able to respond to paging messages and incoming call. An established call has been released.

NR receiver: The EUT is connected to a charger for charging. The EUT is synchronized to System Simulator (SS), and able to respond to paging messages and incoming call. An established call has been released.

This device contains the receivers which tune and operate between 30MHz-960MHz in the following bands: GSM 850MHz,WCDMA B5,LTE Band 5, LTE Band 12, LTE Band 13,LTE Band 5, LTE Band 17, LTE Band 26, NR SA n5.

The EUT was tested while operating in licensed band receiver mode. All licensed band receivers that tune in the range of 30MHz-960MHz, as listed in Section 3.1, are investigated. Only the worst case emissions are reported.

All equipment is placed on the test table top and arranged in a typical configuration in accordance with ANSI C63.4-2014 and manipulated to obtain worst case emissions. For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

A.1.3 Measurement Limit

Limit from Part 15.109(a)

Frequency range (MHz)	Field strength limit (μV/m)		
	Quasi-peak	Average	Peak
30-88	100		
88-216	150		
216-960	200		
960-1000	500		
>1000		500	5000

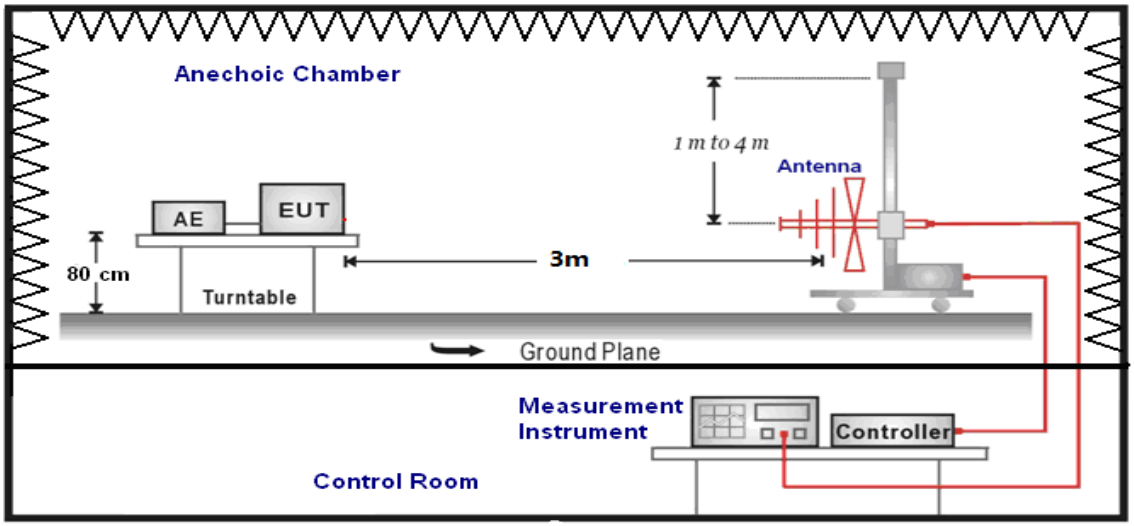
*Note: The original limit is defined at 10m test distance. This limit is calculated according to CISPR requirements.

A.1.4 Test Condition

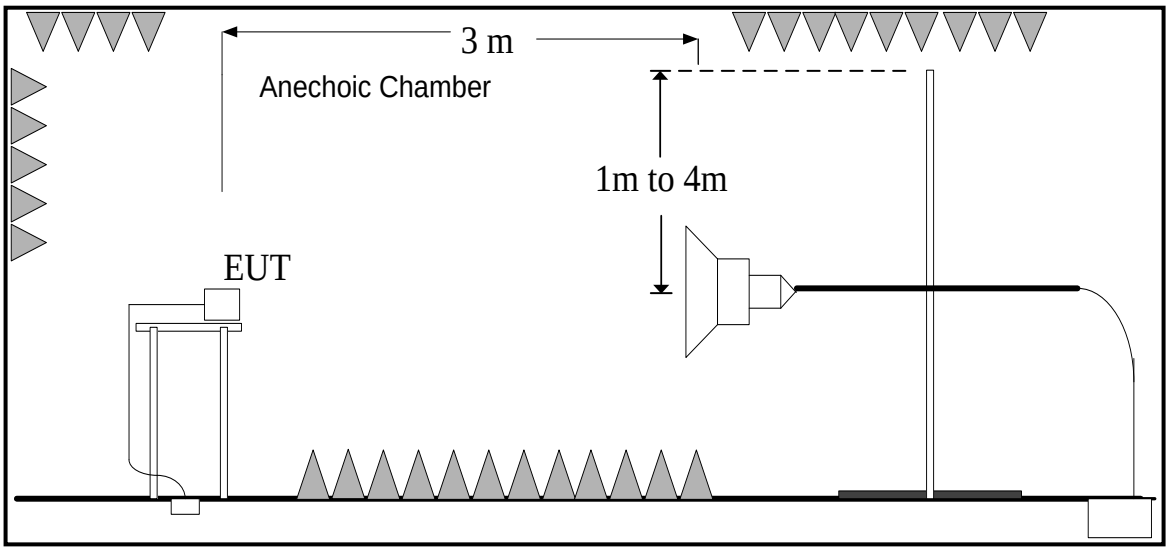
Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	120kHz (IF bandwidth)	5
Above 1000	1MHz/3MHz	15

A.1.5 Test set-up:

30MHz-1GHz



1GHz-40GHz



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:

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

Where

G_A: Antenna factor of receive antenna

G_{PL}:PathLoss

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

Camera

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m)	Conclusion
		UT06aa/Set.1	
30-88	40.00	See Figure A.1.1.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m)	Conclusion
			UT06aa/Set.1	
1000 to 18000	54.00	74.00	See Figure A.1.2.	P
18000 to 26500	63.54	83.54	See Figure A.1.3.	
26500 to 40000	63.54	83.54	See Figure A.1.4.	

Video Player

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT06aa/Set.1	Conclusion
30-88	40.00	See Figure A.1.5.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) UT06aa/Set.1	Conclusion
1000 to 18000	54.00	74.00	See Figure A.1.6.	P
18000 to 26500	63.54	83.54	See Figure A.1.7.	
26500 to 40000	63.54	83.54	See Figure A.1.8.	

GSM receiver 850MHz

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT06aa/Set.1	Conclusion
30-88	40.00	See Figure A.1.9.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) UT06aa/Set.1	Conclusion
1000 to 18000	54.00	74.00	See Figure A.1.10.	P
18000 to 26500	63.54	83.54	See Figure A.1.11.	
26500 to 40000	63.54	83.54	See Figure A.1.12.	

WCDMA receiver Band 5

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT06aa/Set.1	Conclusion
30-88	40.00	See Figure A.1.13.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) UT06aa/Set.1	Conclusion
1000 to 18000	54.00	74.00	See Figure A.1.14.	P
18000 to 26500	63.54	83.54	See Figure A.1.15.	
26500 to 40000	63.54	83.54	See Figure A.1.16.	

LTE receiver Band 5

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT06aa/Set.1	Conclusion
30-88	40.00	See Figure A.1.17.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) UT06aa/Set.1	Conclusion
1000 to 18000	54.00	74.00	See Figure A.1.18.	P
18000 to 26500	63.54	83.54	See Figure A.1.19.	
26500 to 40000	63.54	83.54	See Figure A.1.20.	

LTE receiver Band 12

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT06aa/Set.1	Conclusion
30-88	40.00	See Figure A.1.21.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) UT06aa/Set.1	Conclusion
1000 to 18000	54.00	74.00	See Figure A.1.22.	P
18000 to 26500	63.54	83.54	See Figure A.1.23.	
26500 to 40000	63.54	83.54	See Figure A.1.24.	

LTE receiver Band 13

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT06aa/Set.1	Conclusion
30-88	40.00	See Figure A.1.25.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) UT06aa/Set.1	Conclusion
1000 to 18000	54.00	74.00	See Figure A.1.26.	P
18000 to 26500	63.54	83.54	See Figure A.1.27.	
26500 to 40000	63.54	83.54	See Figure A.1.28.	

LTE receiver Band 17

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT06aa/Set.1	Conclusion
30-88	40.00	See Figure A.1.29.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) UT06aa/Set.1	Conclusion
1000 to 18000	54.00	74.00	See Figure A.1.30.	P
18000 to 26500	63.54	83.54	See Figure A.1.31.	
26500 to 40000	63.54	83.54	See Figure A.1.32.	

LTE receiver Band 26

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT06aa/Set.1	Conclusion
30-88	40.00	See Figure A.1.33.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) UT06aa/Set.1	Conclusion
1000 to 18000	54.00	74.00	See Figure A.1.34.	P
18000 to 26500	63.54	83.54	See Figure A.1.35.	
26500 to 40000	63.54	83.54	See Figure A.1.36.	

NR receiver SA n5

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT06aa/Set.1	Conclusion
30-88	40.00	See Figure A.1.37.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) UT06aa/Set.1	Conclusion
1000 to 18000	54.00	74.00	See Figure A.1.38.	P
18000 to 26500	63.54	83.54	See Figure A.1.39.	
26500 to 40000	63.54	83.54	See Figure A.1.40.	

Data Transfer: EUT TO PC

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT06aa/Set.2	Conclusion
30-88	40.00	See Figure A.1.41.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) UT06aa/Set.2	Conclusion
1000 to 18000	54.00	74.00	See Figure A.1.42.	P
18000 to 26500	63.54	83.54	See Figure A.1.43.	
26500 to 40000	63.54	83.54	See Figure A.1.44.	

Data Transfer: PC TO EUT

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT06aa/Set.2	Conclusion
30-88	40.00	See Figure A.1.45.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) UT06aa/Set.2	Conclusion
1000 to 18000	54.00	74.00	See Figure A.1.46.	P
18000 to 26500	63.54	83.54	See Figure A.1.47.	
26500 to 40000	63.54	83.54	See Figure A.1.48.	

NR receiver SA n5

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT06aa/Set.3	Conclusion
30-88	40.00	See Figure A.1.49.	P
88-216	43.52		
216-960	46.02		
960-1000	54.00		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) UT06aa/Set.3	Conclusion
1000 to 18000	54.00	74.00	See Figure A.1.50.	P
18000 to 26500	63.54	83.54	See Figure A.1.51.	
26500 to 40000	63.54	83.54	See Figure A.1.52.	

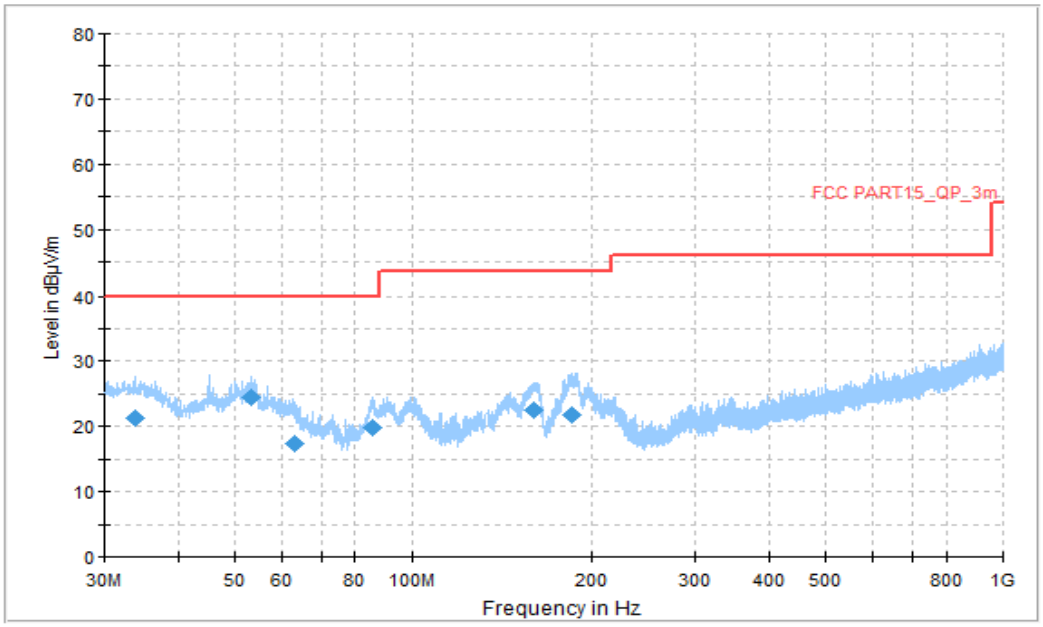


Figure A.1.1. Radiated Emission (Camera, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBµV)
33.772222	21.23	40.00	18.77	V	-14.9	36.13
53.333889	24.46	40.00	15.54	V	-14.1	38.56
62.926111	17.40	40.00	22.60	V	-14.6	32.00
85.775000	19.91	40.00	20.09	V	-18.1	38.01
159.764444	22.59	43.52	20.93	V	-17.5	40.09
184.822778	21.68	43.52	21.85	V	-16.0	37.68

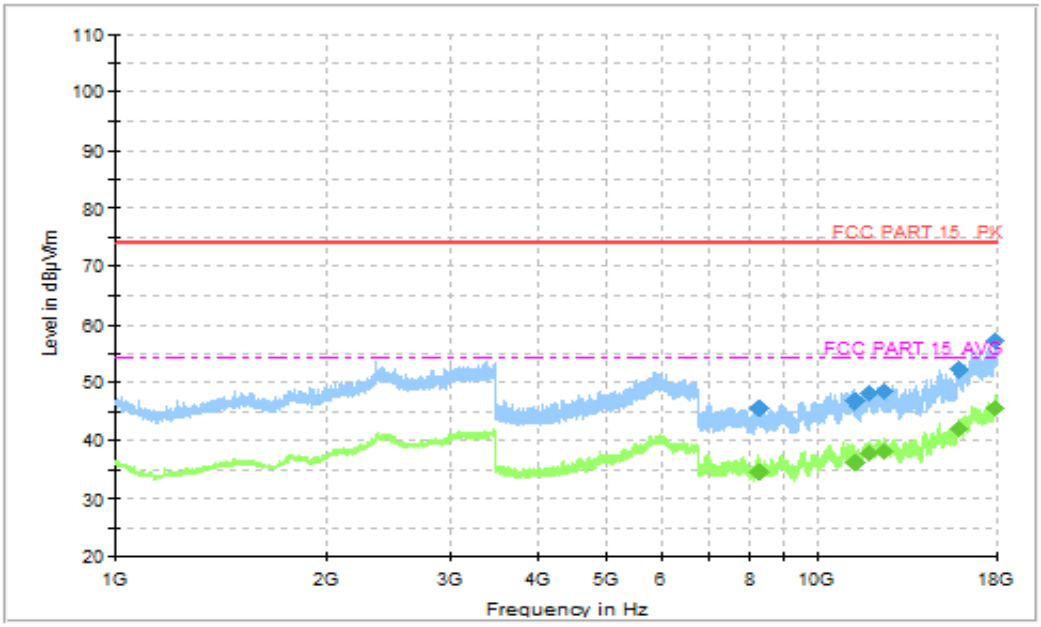


Figure A.1.2. Radiated Emission (Camera, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
8272.153846	45.59	74.00	28.41	H	6.8	38.79
11288.307692	46.67	74.00	27.33	V	11.0	35.67
11877.692308	48.08	74.00	25.92	H	12.6	35.48
12460.615385	48.35	74.00	25.65	V	12.8	35.55
15849.230769	52.16	74.00	21.84	V	15.4	36.76
17934.000000	57.10	74.00	16.90	V	21.7	35.40

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
8272.153846	34.52	54.00	19.48	H	6.8	27.72
11288.307692	36.15	54.00	17.85	V	11.0	25.15
11877.692308	37.77	54.00	16.23	H	12.6	25.17
12460.615385	38.04	54.00	15.96	V	12.8	25.24
15849.230769	41.96	54.00	12.04	V	15.4	26.56
17934.000000	45.59	54.00	8.41	V	21.7	23.89

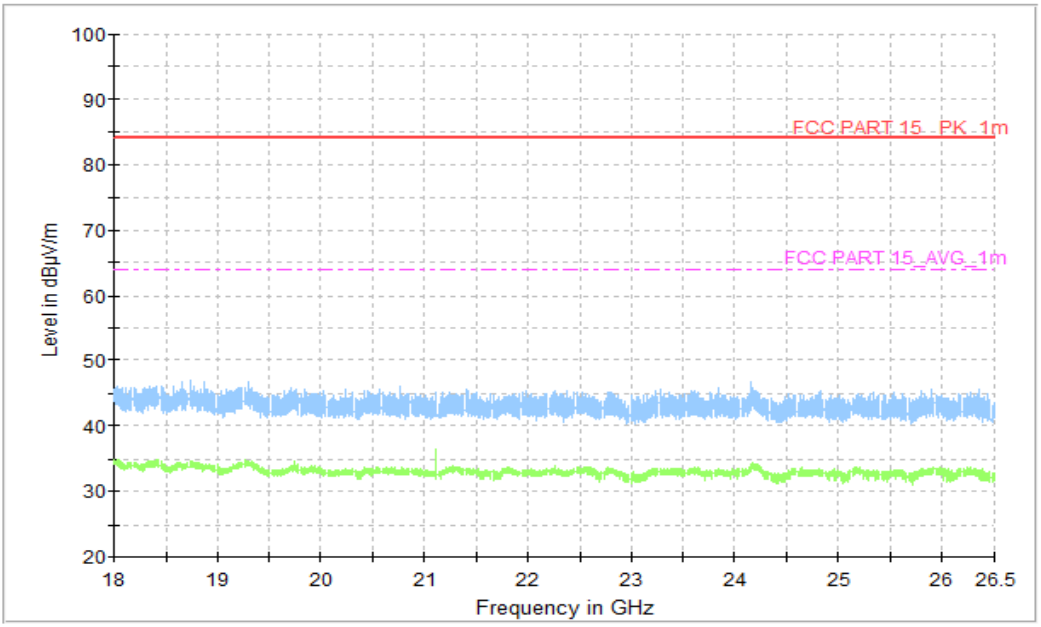


Figure A.1.3. Radiated Emission (Camera , 18GHz to 26.5GHz)

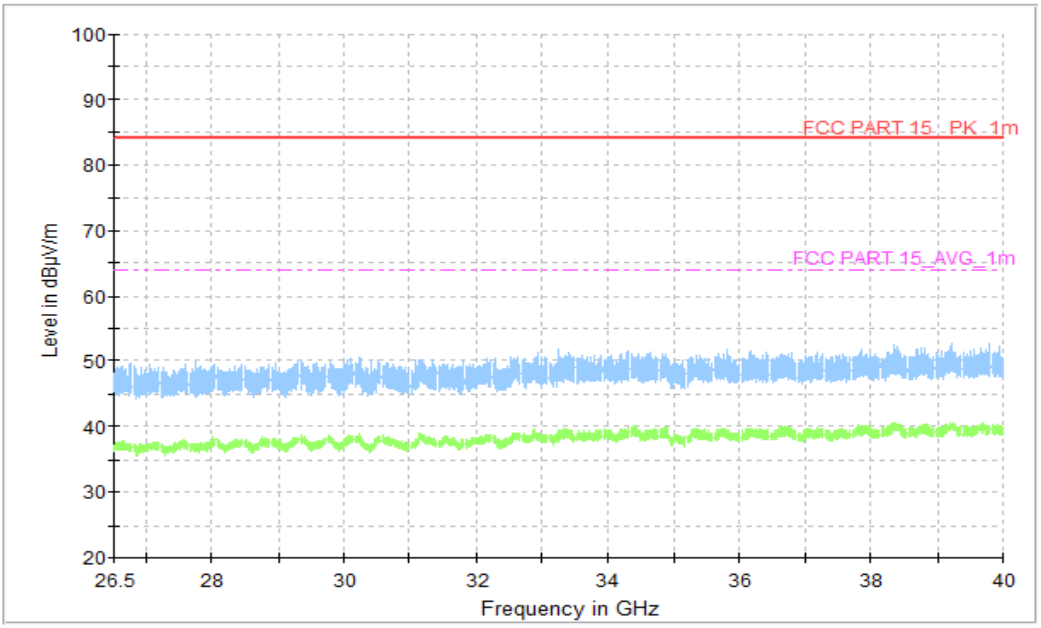


Figure A.1.4. Radiated Emission (Camera , 26.5GHz to 40GHz)

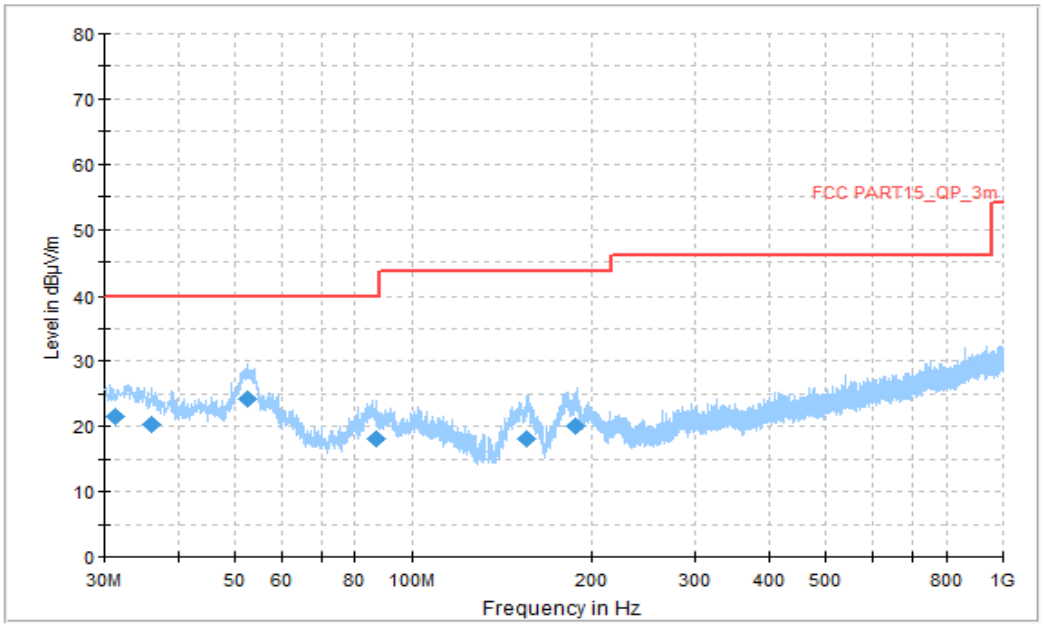


Figure A.1.5. Radiated Emission (Video Player, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBµV)
31.347222	21.52	40.00	18.48	V	-15.3	36.82
36.089444	20.42	40.00	19.58	V	-14.2	34.62
52.525556	24.31	40.00	15.69	V	-13.9	38.21
87.122222	18.19	40.00	21.81	V	-17.7	35.89
155.130000	18.20	43.52	25.32	V	-17.7	35.9
188.433333	20.15	43.52	23.37	V	-15.4	35.55

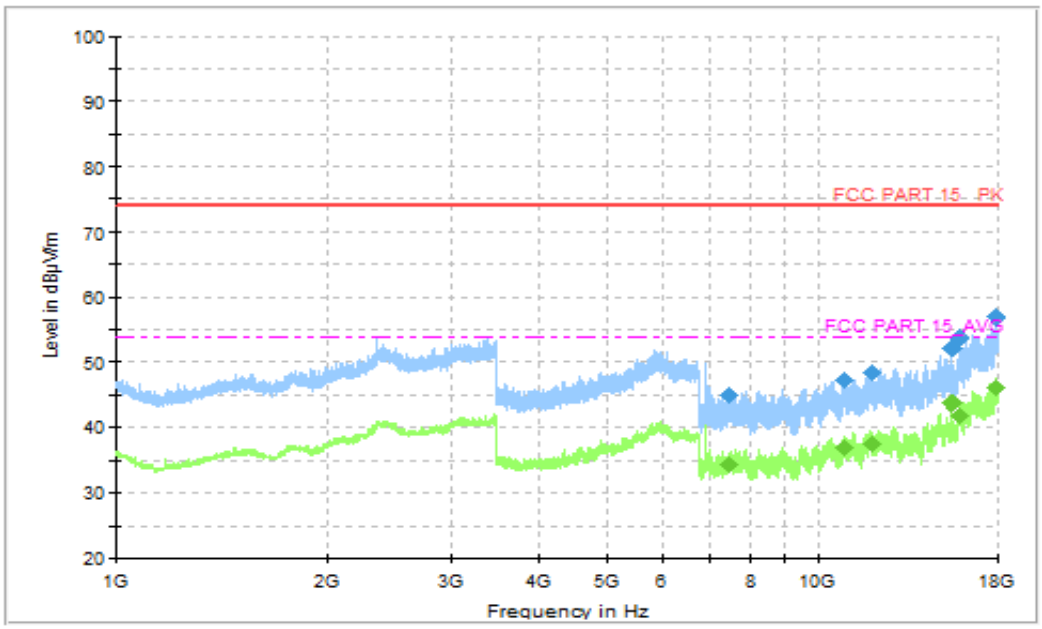


Figure A.1.6. Radiated Emission (Video Player, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
7462.615385	45.00	74.00	29.00	V	7.1	37.90
10923.230769	47.52	74.00	26.48	V	10.5	37.02
11929.384615	48.45	74.00	25.55	V	12.3	36.15
15540.000000	52.38	74.00	21.62	H	14.7	37.68
15930.461539	53.69	74.00	20.31	V	15.9	37.79
17918.307692	56.93	74.00	17.07	V	21.7	35.23

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
7462.615385	34.33	54.00	19.67	V	7.1	27.23
10923.230769	36.85	54.00	17.15	V	10.5	26.35
11929.384615	37.54	54.00	16.46	V	12.3	25.24
15540.000000	43.71	54.00	10.29	H	14.7	29.01
15930.461539	41.79	54.00	12.21	V	15.9	25.89
17918.307692	46.14	54.00	7.86	V	21.7	24.44

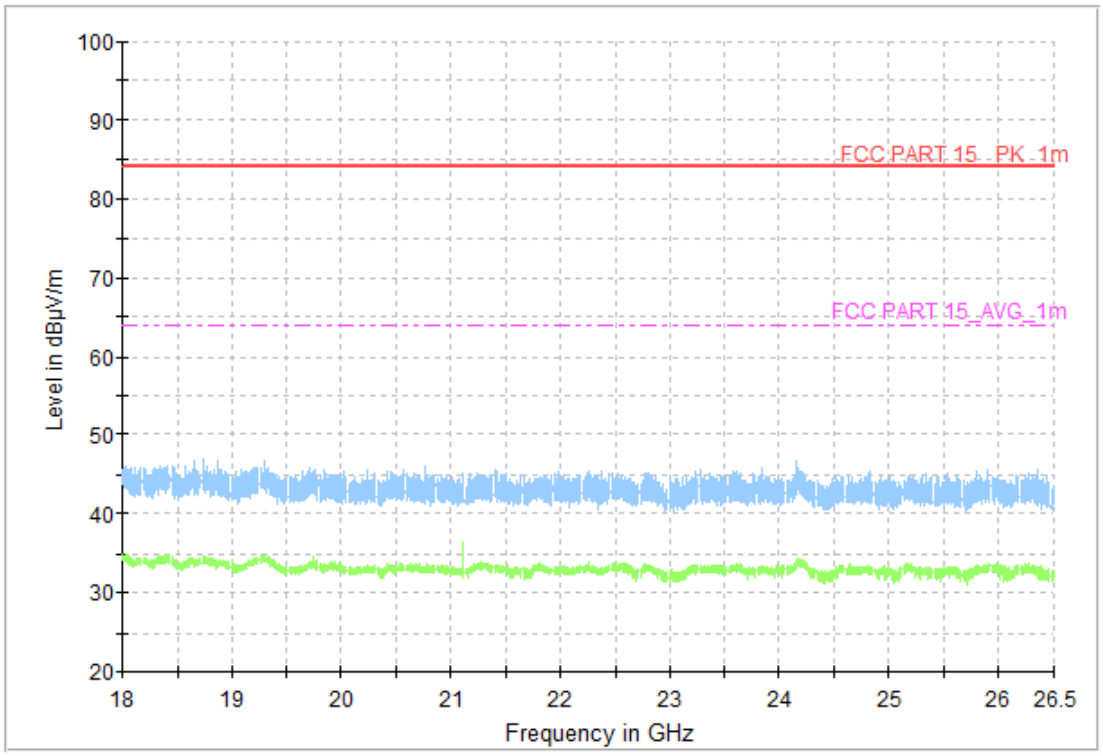


Figure A.1.7. Radiated Emission (Video Player , 18GHz to 26.5GHz)

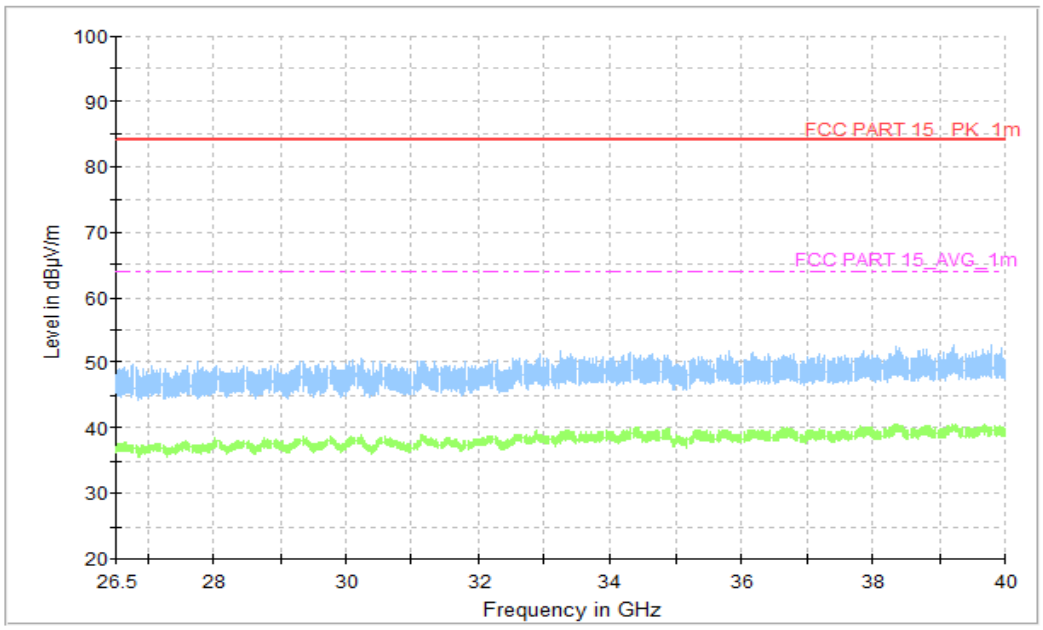


Figure A.1.8. Radiated Emission (Video Player , 26.5GHz to 40GHz)

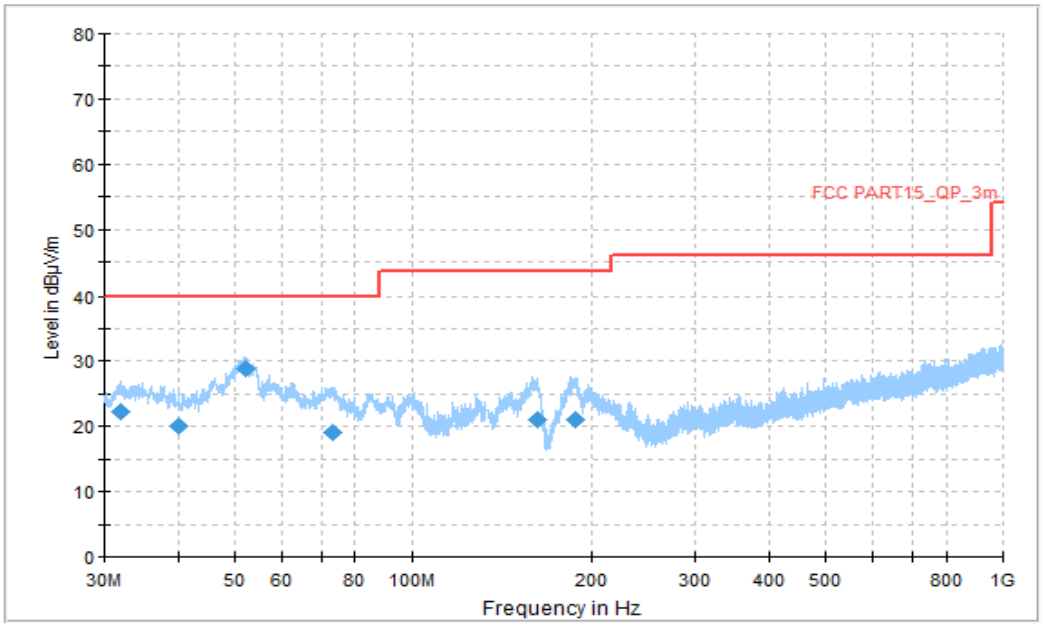


Figure A.1.9. Radiated Emission (GSM receiver 850MHz, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBµV)
31.993889	22.20	40.00	17.80	V	-15.1	37.30
40.023333	20.17	40.00	19.83	V	-13.5	33.67
52.040556	28.97	40.00	11.03	V	-13.8	42.77
73.057222	19.14	40.00	20.86	V	-18.5	37.64
161.488889	21.07	43.52	22.45	V	-17.5	38.57
187.247778	21.02	43.52	22.50	V	-15.7	36.72

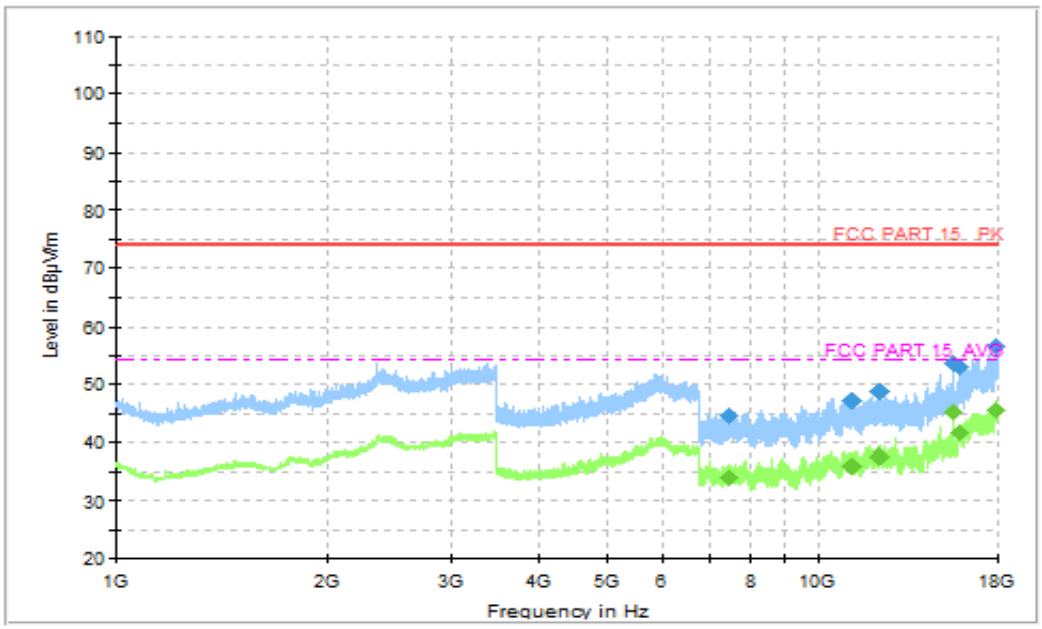


Figure A.1.10. Radiated Emission (GSM receiver 850MHz , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
7459.846154	44.60	74.00	29.40	V	7.1	51.30
11158.153846	47.19	74.00	26.81	V	10.7	50.00
12250.153846	48.82	74.00	25.18	V	12.7	48.20
15600.461539	53.69	74.00	20.31	V	14.7	46.90
15864.923077	53.09	74.00	20.91	H	15.5	46.40
17937.230769	56.54	74.00	17.46	V	21.7	43.70

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
7459.846154	34.01	54.00	19.99	V	7.1	38.30
11158.153846	35.98	54.00	18.02	V	10.7	37.60
12250.153846	37.59	54.00	16.41	V	12.7	34.90
15600.461539	45.41	54.00	8.59	V	14.7	33.10
15864.923077	41.84	54.00	12.16	H	15.5	32.60
17937.230769	45.60	54.00	8.40	V	21.7	30.90

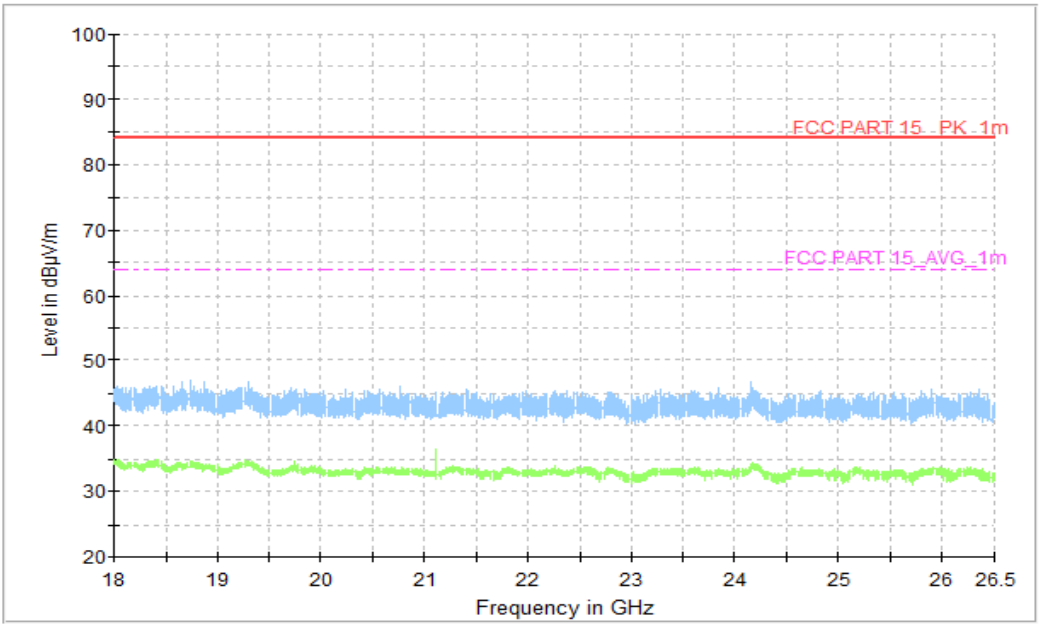


Figure A.1.11. Radiated Emission (GSM receiver 850MHz, 18GHz to 26.5GHz)

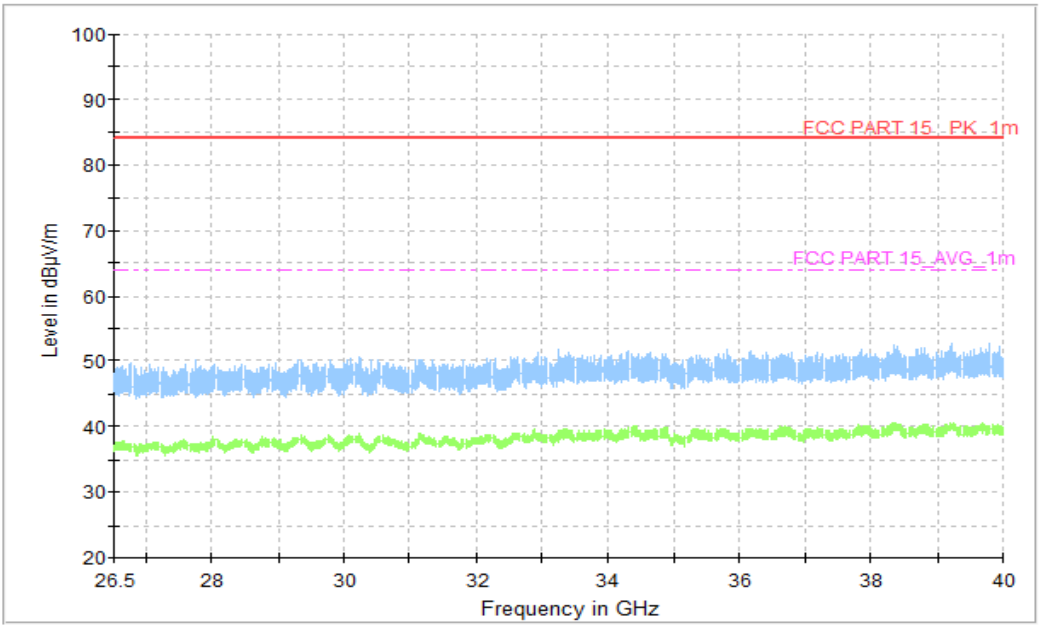


Figure A.1.12. Radiated Emission (GSM receiver 850MHz , 26.5GHz to 40GHz)

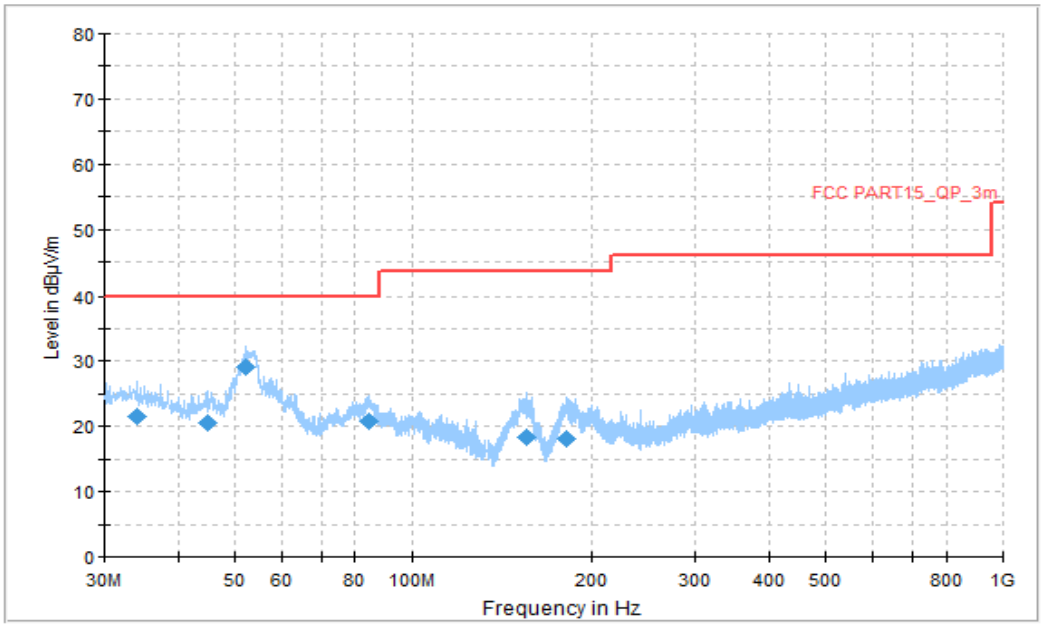


Figure A.1.13. Radiated Emission (WCDMA receiver Band5, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBµV)
34.041667	21.44	40.00	18.56	V	-14.8	36.24
44.873333	20.46	40.00	19.54	V	-13.1	33.56
52.148333	29.00	40.00	11.00	V	-13.8	42.80
84.373889	20.74	40.00	19.26	V	-18.6	39.34
154.698889	18.43	43.52	25.09	V	-17.7	36.13
180.781111	18.21	43.52	25.31	V	-16.5	34.71

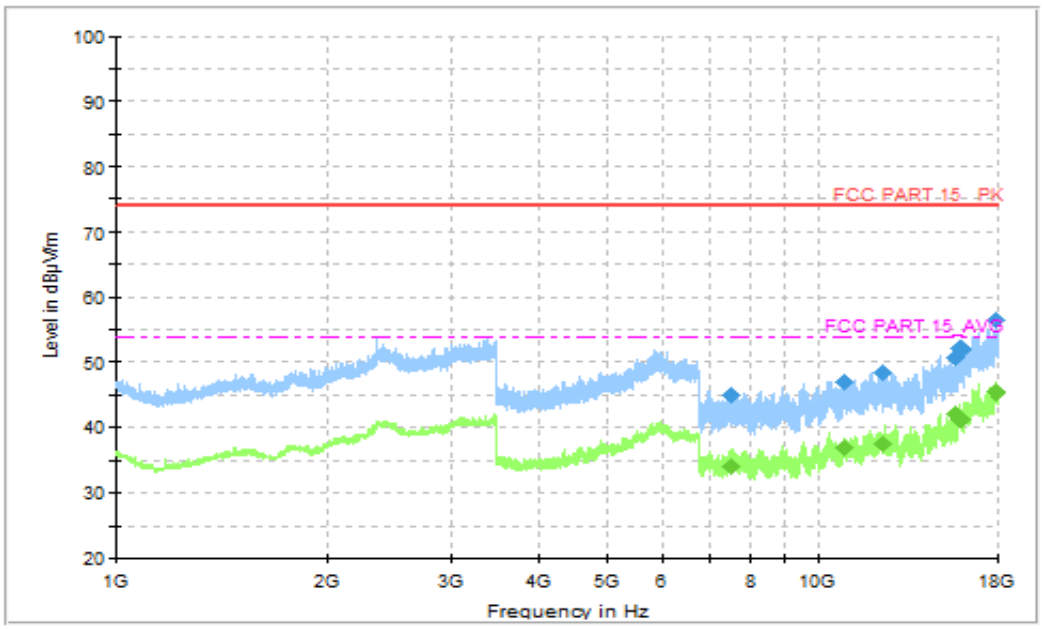


Figure A.1.14. Radiated Emission (WCDMA receiver Band5, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
7502.769231	45.05	74.00	28.95	H	7.1	51.30
10914.461539	46.90	74.00	27.10	H	10.5	50.00
12391.384615	48.49	74.00	25.51	V	12.7	48.20
15714.923077	50.74	74.00	23.26	V	14.8	46.90
15975.692308	52.04	74.00	21.96	V	16.2	46.40
17904.000000	56.55	74.00	17.45	V	21.8	43.70

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
7502.769231	34.25	54.00	19.75	H	7.1	38.30
10914.461539	36.91	54.00	17.09	H	10.5	37.60
12391.384615	37.67	54.00	16.33	V	12.7	34.90
15714.923077	41.93	54.00	12.07	V	14.8	33.10
15975.692308	41.32	54.00	12.68	V	16.2	32.60
17904.000000	45.51	54.00	8.49	V	21.8	30.90

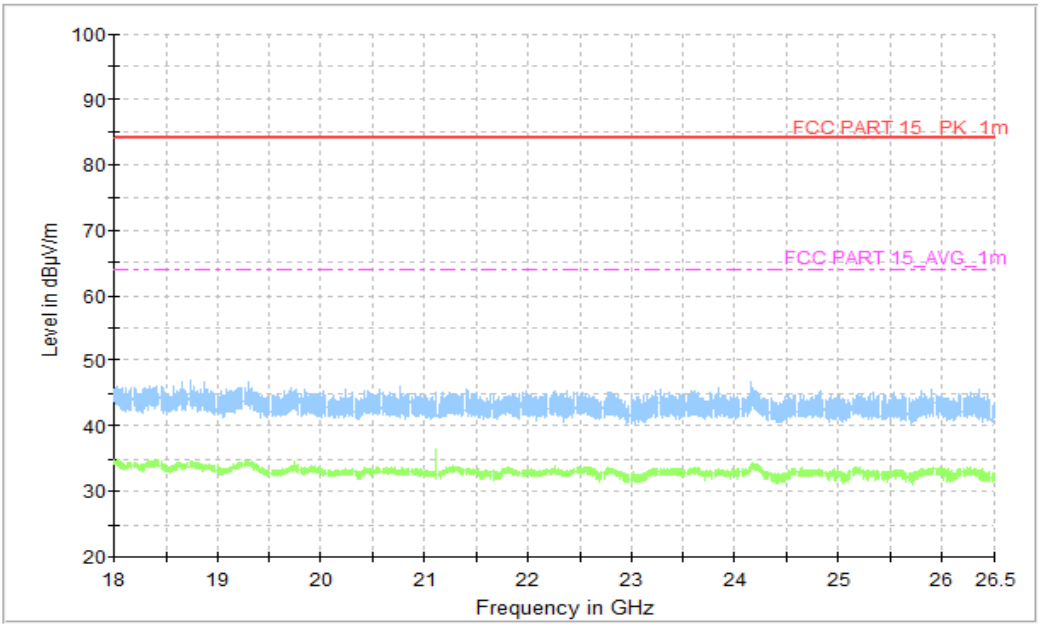


Figure A.1.15. Radiated Emission (WCDMA receiver Band5, 18GHz to 26.5GHz)

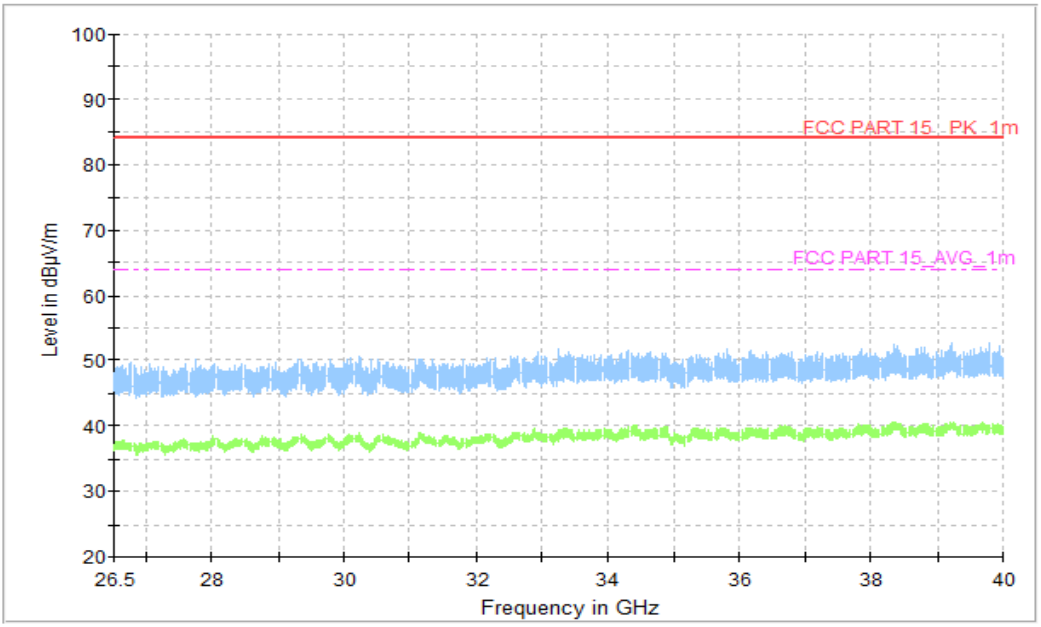


Figure A.1.16. Radiated Emission (WCDMA receiver Band5, 26.5GHz to 40GHz)

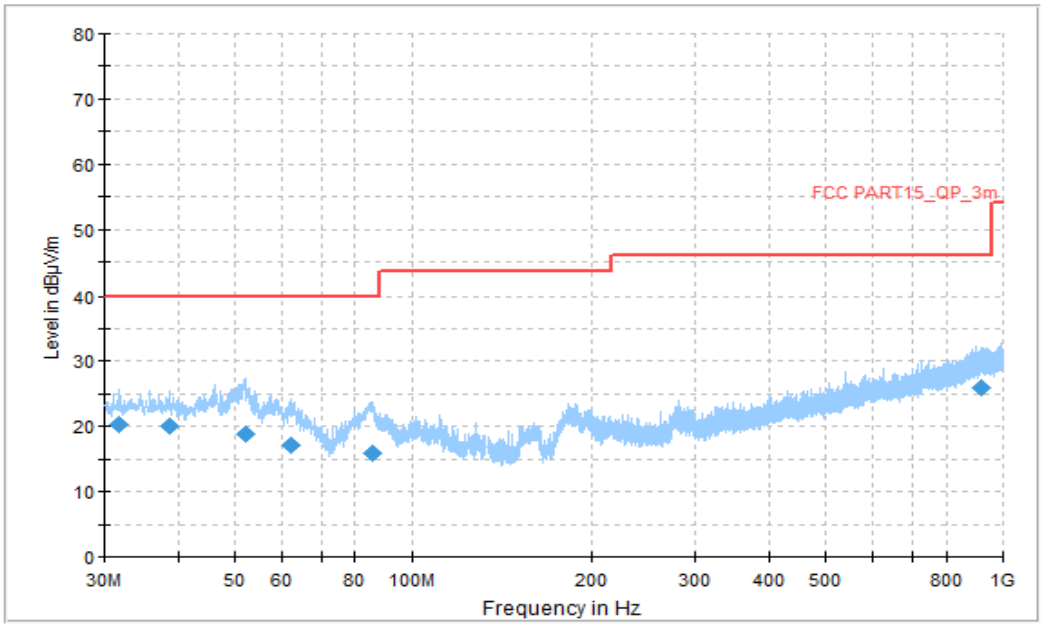


Figure A.1.17. Radiated Emission (LTE receiver Band 5, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBµV)
31.832222	20.21	40.00	19.79	V	-15.2	35.41
38.676111	20.13	40.00	19.87	V	-13.8	33.93
51.986667	18.72	40.00	21.28	V	-13.8	32.52
62.117778	17.15	40.00	22.85	V	-14.4	31.55
85.559444	15.78	40.00	24.22	V	-18.2	33.98
919.651667	25.88	46.02	20.14	V	0.4	25.48

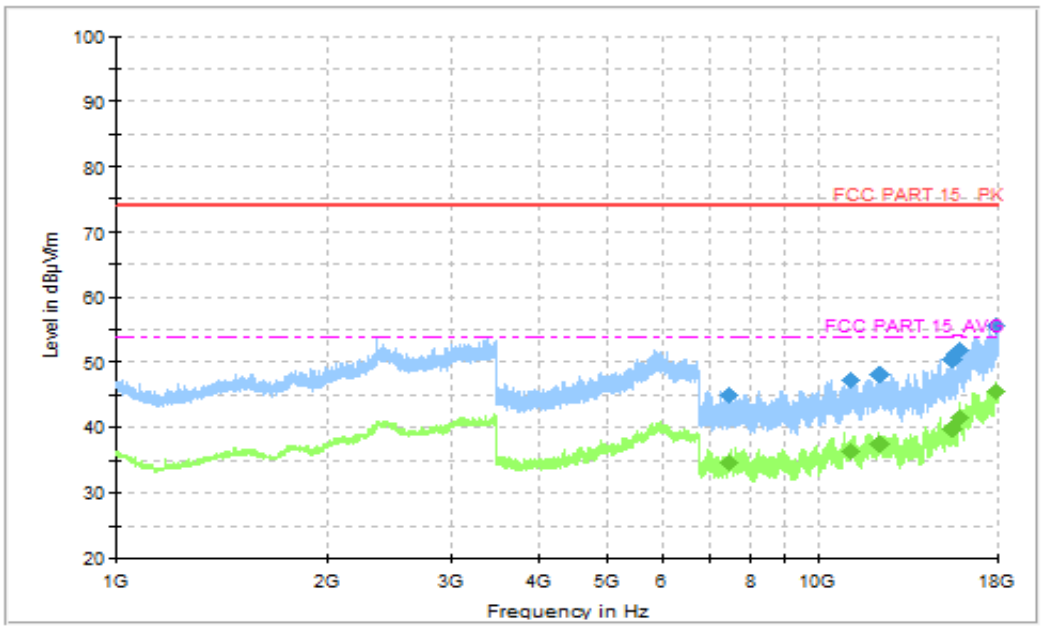


Figure A.1.18. Radiated Emission (LTE receiver Band 5, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
7468.153846	44.91	74.00	29.09	V	7.1	37.81
11137.846154	47.29	74.00	26.71	H	10.7	36.59
12229.384615	48.07	74.00	25.93	H	12.7	35.37
15538.615385	50.56	74.00	23.44	H	14.7	35.86
15919.384615	51.83	74.00	22.17	V	15.8	36.03
17905.384615	55.84	74.00	18.16	H	21.8	34.04

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
7468.153846	34.59	54.00	19.41	V	7.1	27.49
11137.846154	36.47	54.00	17.53	H	10.7	25.77
12229.384615	37.69	54.00	16.31	H	12.7	24.99
15538.615385	39.78	54.00	14.22	H	14.7	25.08
15919.384615	41.64	54.00	12.36	V	15.8	25.84
17905.384615	45.80	54.00	8.20	H	21.8	24.00

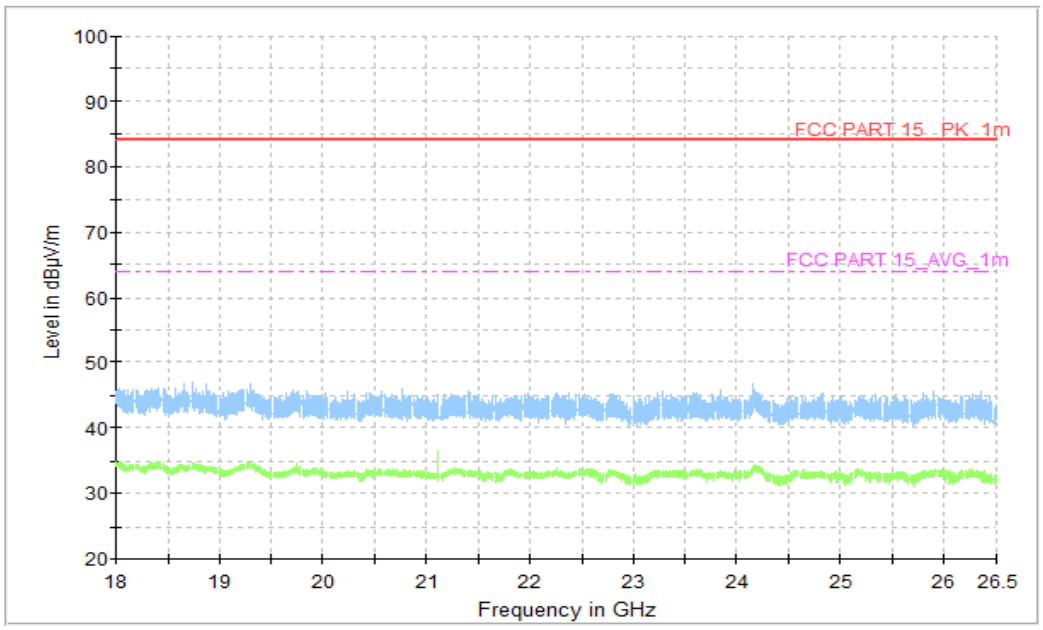


Figure A.1.19. Radiated Emission ((LTE receiver Band 5 , 18GHz to 26.5GHz)

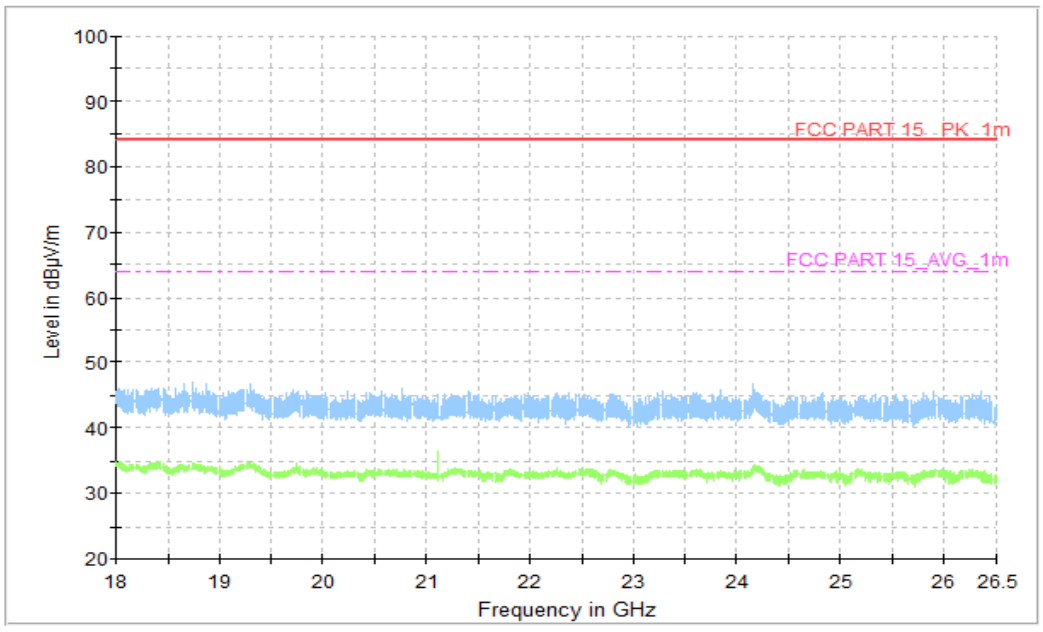


Figure A.1.20. Radiated Emission ((LTE receiver Band 5 , 26.5GHz to 40GHz)

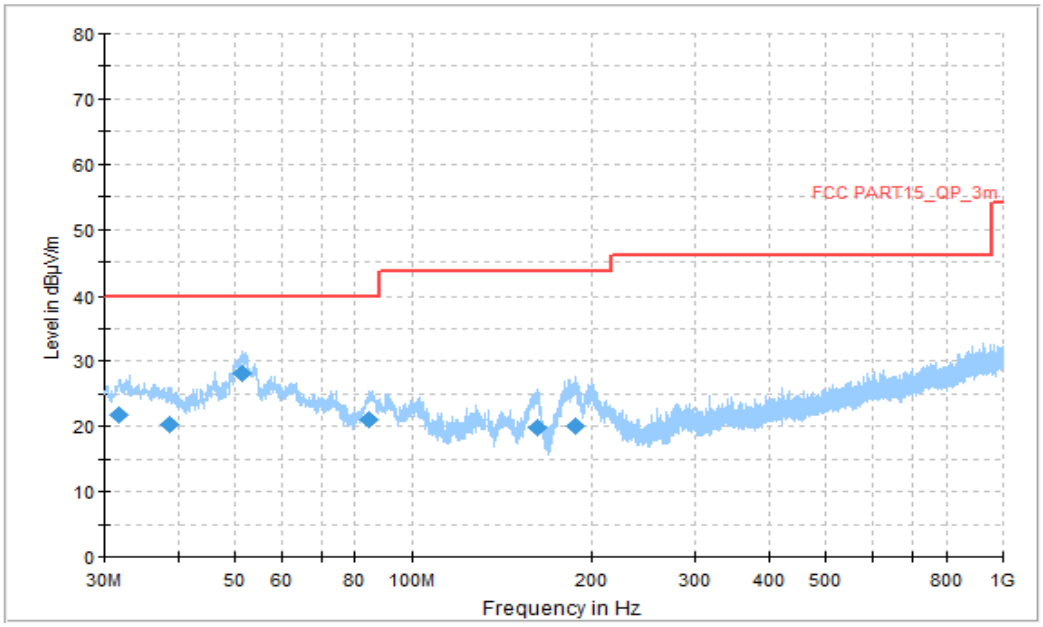


Figure A.1.21. Radiated Emission (LTE receiver Band 12, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBµV)
31.778333	21.72	40.00	18.28	V	-15.2	36.92
38.837778	20.37	40.00	19.63	V	-13.8	34.17
51.501667	28.20	40.00	11.80	V	-13.6	41.80
84.535556	20.99	40.00	19.01	V	-18.5	39.49
161.973889	19.91	43.52	23.61	V	-17.5	37.41
187.948333	20.06	43.52	23.46	V	-15.5	35.56

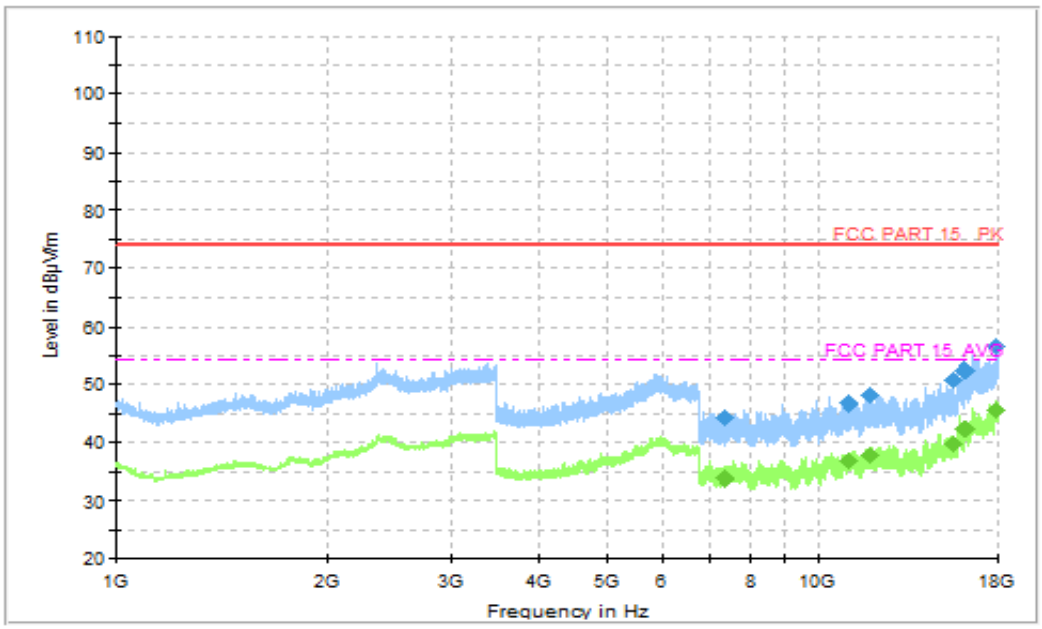


Figure A.1.22. Radiated Emission (LTE receiver Band 12, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
7362.923077	44.11	74.00	29.89	V	6.9	37.21
11037.230769	46.69	74.00	27.31	H	10.8	35.89
11876.307692	48.13	74.00	25.87	V	12.6	35.53
15567.230769	50.70	74.00	23.30	H	14.7	36.00
16183.846154	52.47	74.00	21.53	H	16.9	35.57
17903.538462	56.65	74.00	17.35	V	21.8	34.85

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
7362.923077	33.76	54.00	20.24	V	6.9	26.86
11037.230769	36.72	54.00	17.28	H	10.8	25.92
11876.307692	37.77	54.00	16.23	V	12.6	25.17
15567.230769	39.72	54.00	14.28	H	14.7	25.02
16183.846154	42.29	54.00	11.71	H	16.9	25.39
17903.538462	45.62	54.00	8.38	V	21.8	23.82

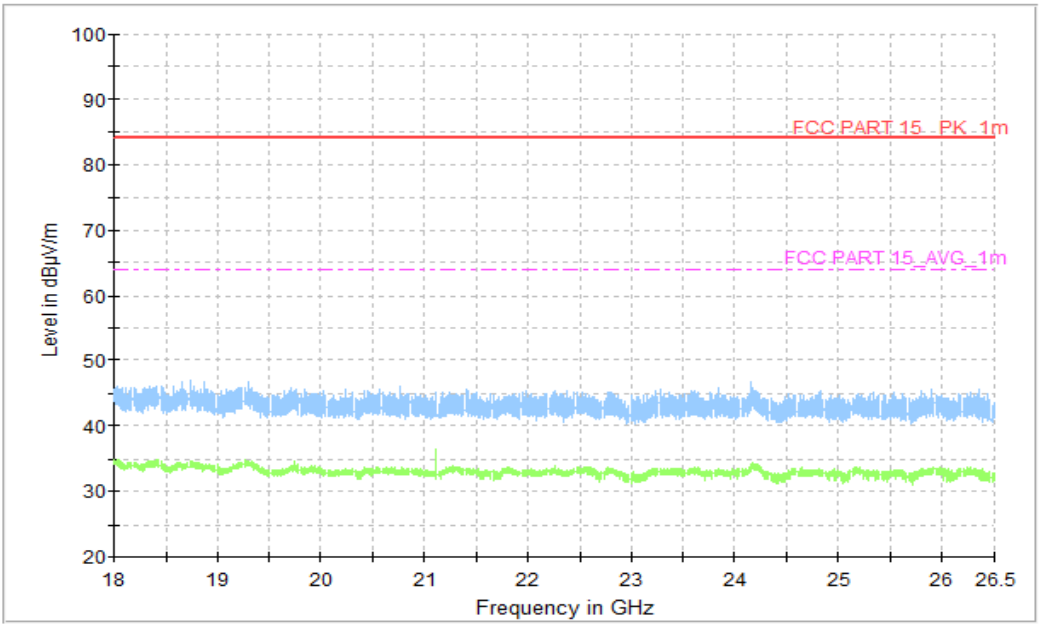


Figure A.1.23. Radiated Emission ((LTE receiver Band 12 , 18GHz to 26.5GHz)

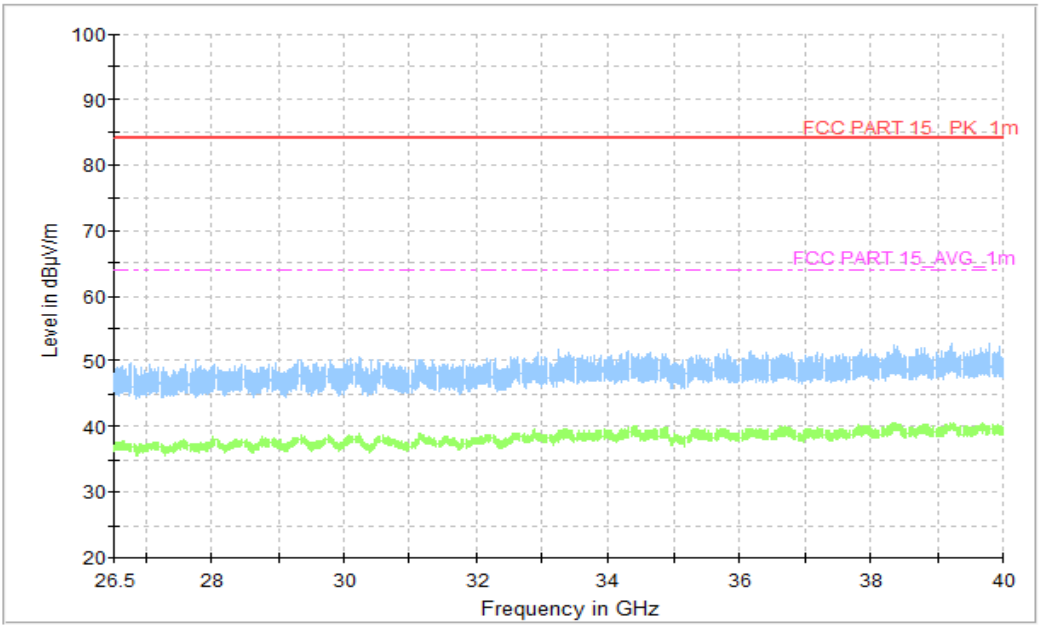


Figure A.1.24. Radiated Emission ((LTE receiver Band 12 , 26.5GHz to 40GHz)

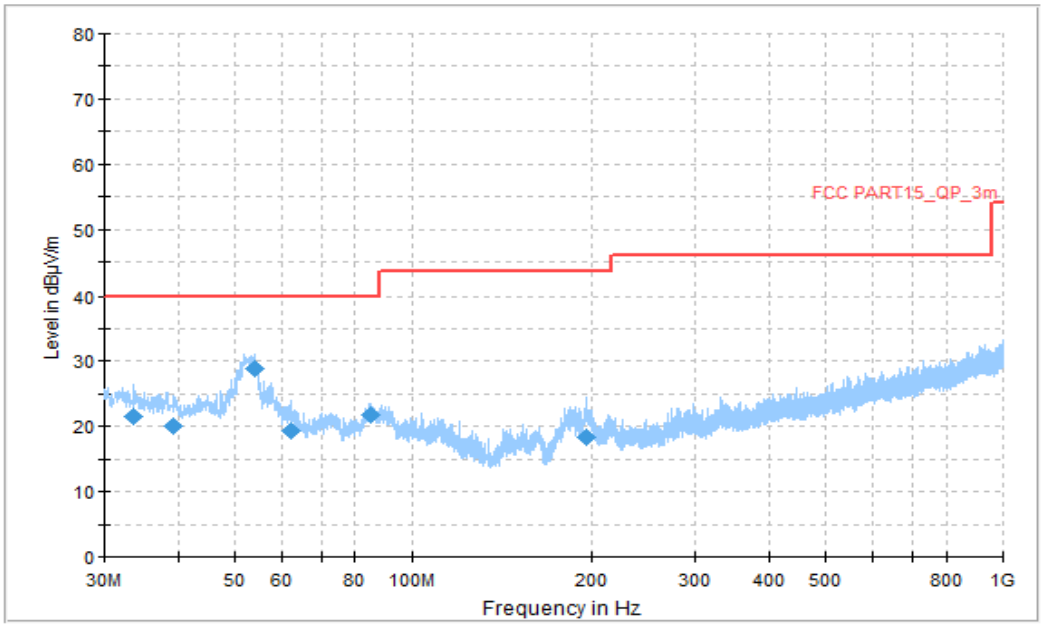


Figure A.1.25. Radiated Emission (LTE receiver Band 13, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBµV)
33.610556	21.41	40.00	18.59	V	-14.9	36.31
39.215000	20.11	40.00	19.89	V	-13.7	33.81
53.818889	28.88	40.00	11.12	V	-14.2	43.08
62.387222	19.29	40.00	20.71	V	-14.5	33.79
84.966667	21.75	40.00	18.25	V	-18.4	40.15
195.654444	18.46	43.52	25.06	V	-14.4	32.86

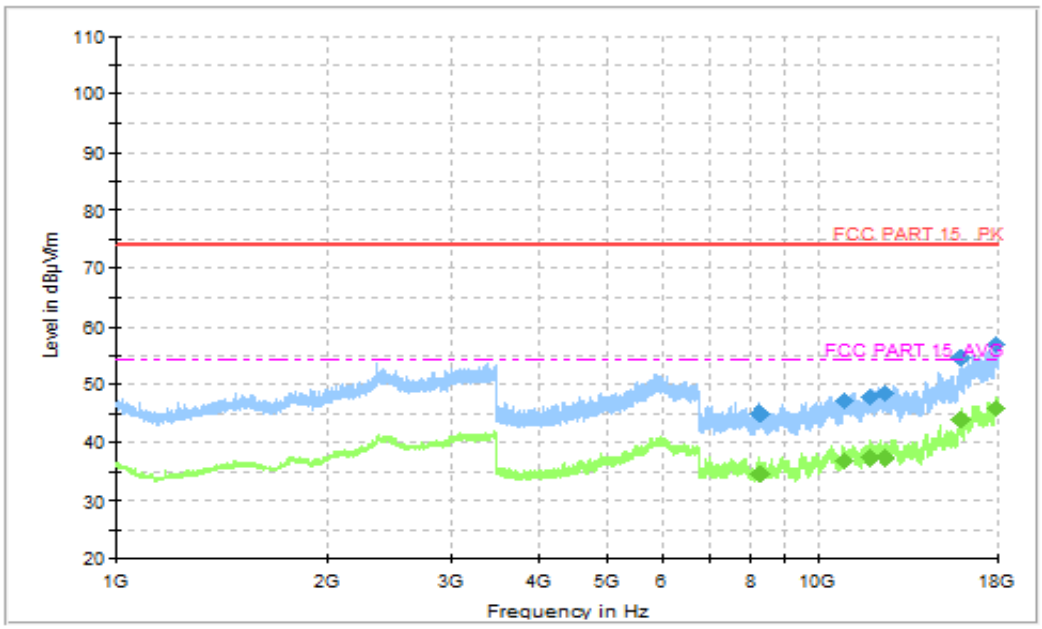


Figure A.1.26. Radiated Emission (LTE receiver Band 13, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
8245.846154	45.04	74.00	28.96	H	6.8	38.24
10912.615385	47.25	74.00	26.75	V	10.4	36.85
11848.153846	47.87	74.00	26.13	H	12.4	35.47
12428.769231	48.27	74.00	25.73	H	12.7	35.57
15969.230769	54.65	74.00	19.35	V	16.1	38.55
17905.846154	56.81	74.00	17.19	V	21.8	35.01

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
8245.846154	34.59	54.00	19.41	H	6.8	27.79
10912.615385	36.91	54.00	17.09	V	10.4	26.51
11848.153846	37.30	54.00	16.70	H	12.4	24.90
12428.769231	37.35	54.00	16.65	H	12.7	24.65
15969.230769	43.83	54.00	10.17	V	16.1	27.73
17905.846154	45.94	54.00	8.06	V	21.8	24.14

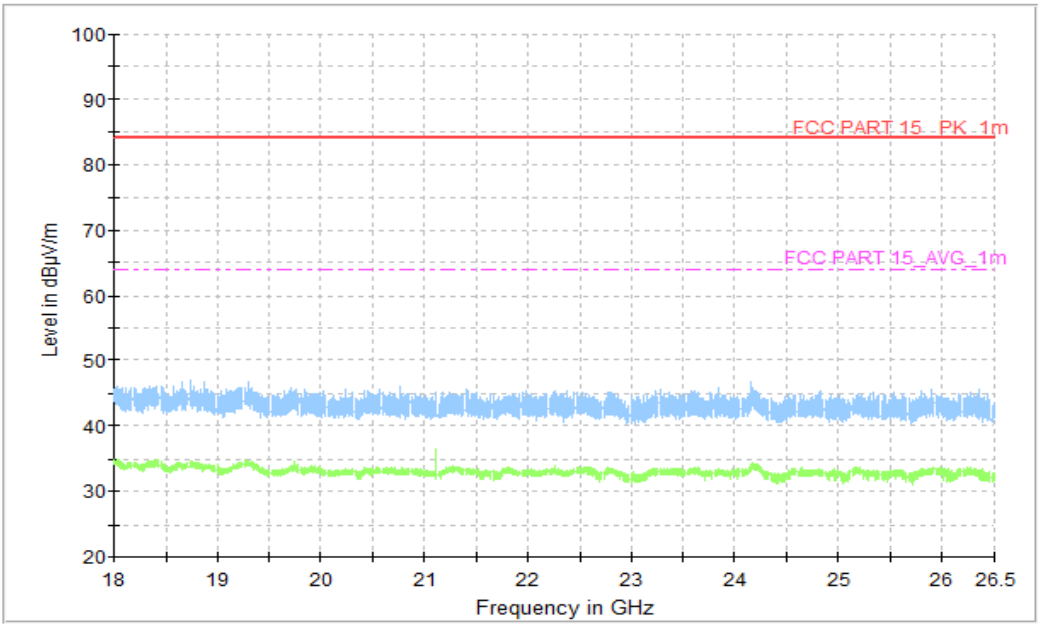


Figure A.1.27. Radiated Emission ((LTE receiver Band 13, 18GHz to 26.5GHz)

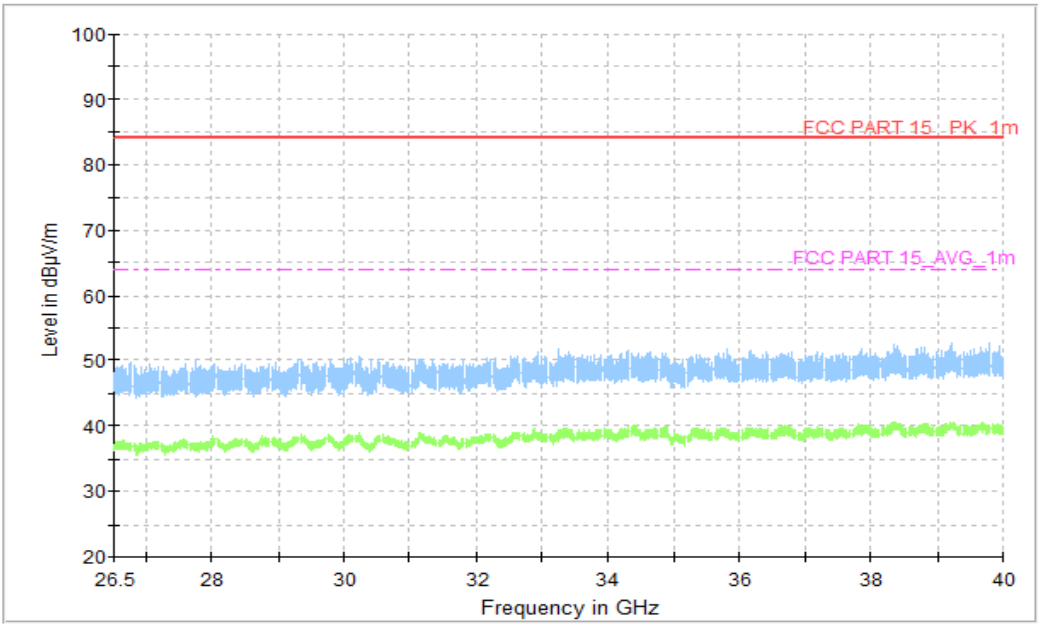


Figure A.1.28. Radiated Emission ((LTE receiver Band 13, 26.5GHz to 40GHz)

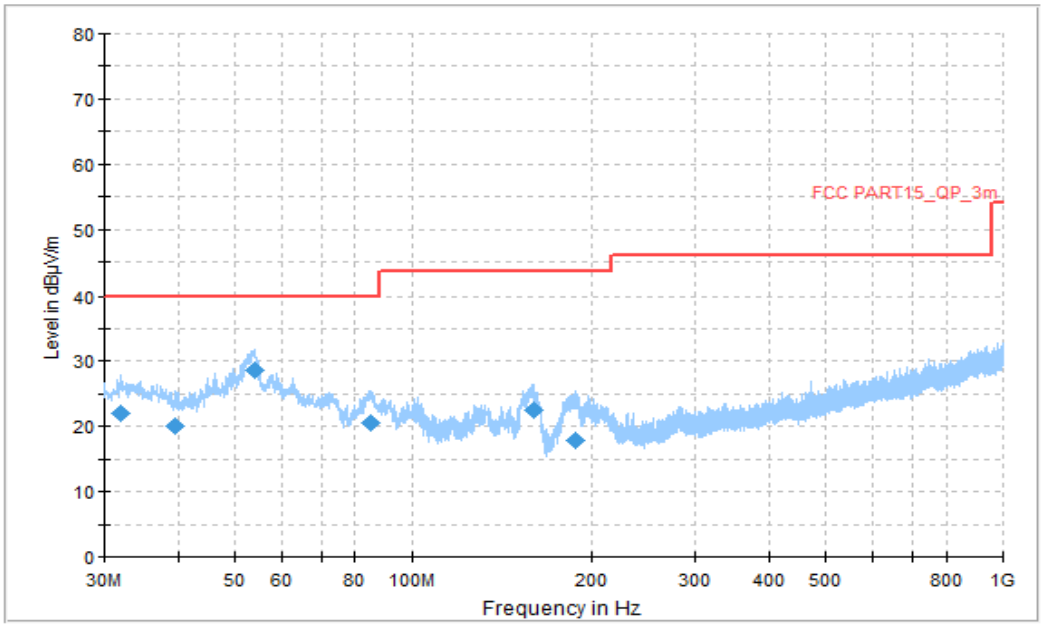


Figure A.1.29. Radiated Emission (LTE receiver Band 17, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBµV)
31.886111	22.10	40.00	17.90	V	-15.2	37.30
39.538333	20.17	40.00	19.83	V	-13.6	33.77
53.980556	28.60	40.00	11.40	V	-14.2	42.80
85.236111	20.67	40.00	19.33	V	-18.3	38.97
159.117778	22.50	43.52	21.02	V	-17.5	40
188.002222	17.79	43.52	25.73	V	-15.5	33.29

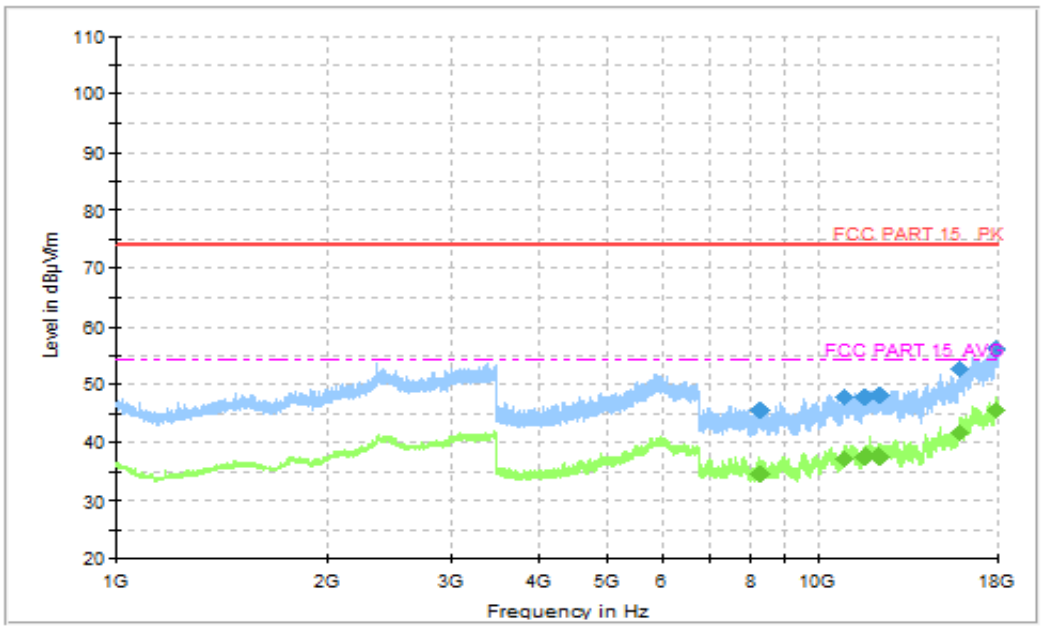


Figure A.1.30. Radiated Emission (LTE receiver Band 17, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
8264.307692	45.48	74.00	28.52	H	6.8	38.68
10920.461539	47.74	74.00	26.26	H	10.5	37.24
11667.692308	47.69	74.00	26.31	V	11.6	36.09
12232.153846	48.21	74.00	25.79	H	12.7	35.51
15861.230769	52.69	74.00	21.31	V	15.5	37.19
17886.461539	56.10	74.00	17.90	H	21.9	34.20

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
8264.307692	34.51	54.00	19.49	H	6.8	27.71
10920.461539	37.15	54.00	16.85	H	10.5	26.65
11667.692308	37.70	54.00	16.30	V	11.6	26.10
12232.153846	37.60	54.00	16.40	H	12.7	24.90
15861.230769	41.84	54.00	12.16	V	15.5	26.34
17886.461539	45.50	54.00	8.50	H	21.9	23.60

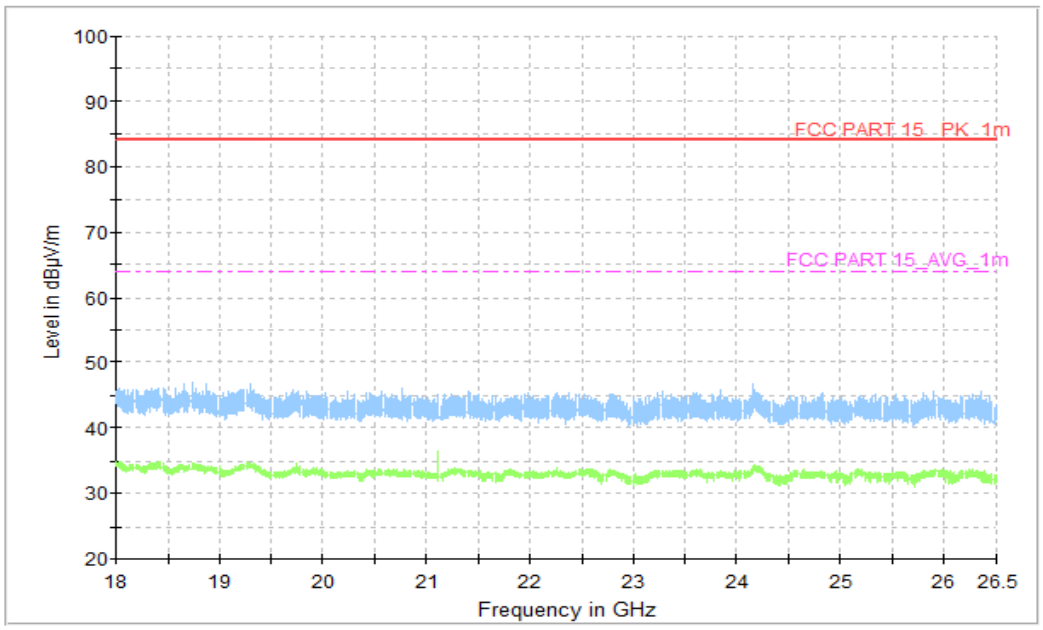


Figure A.1.31. Radiated Emission (LTE receiver Band 17, 18GHz to 26.5GHz)

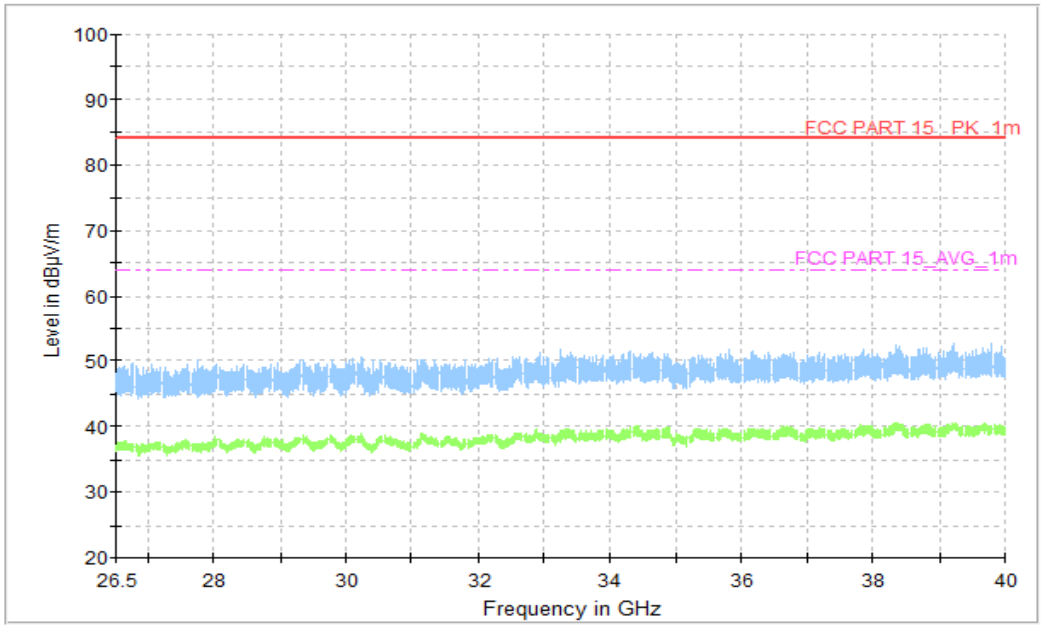


Figure A.1.32. Radiated Emission (LTE receiver Band 17, 26.5GHz to 40GHz)

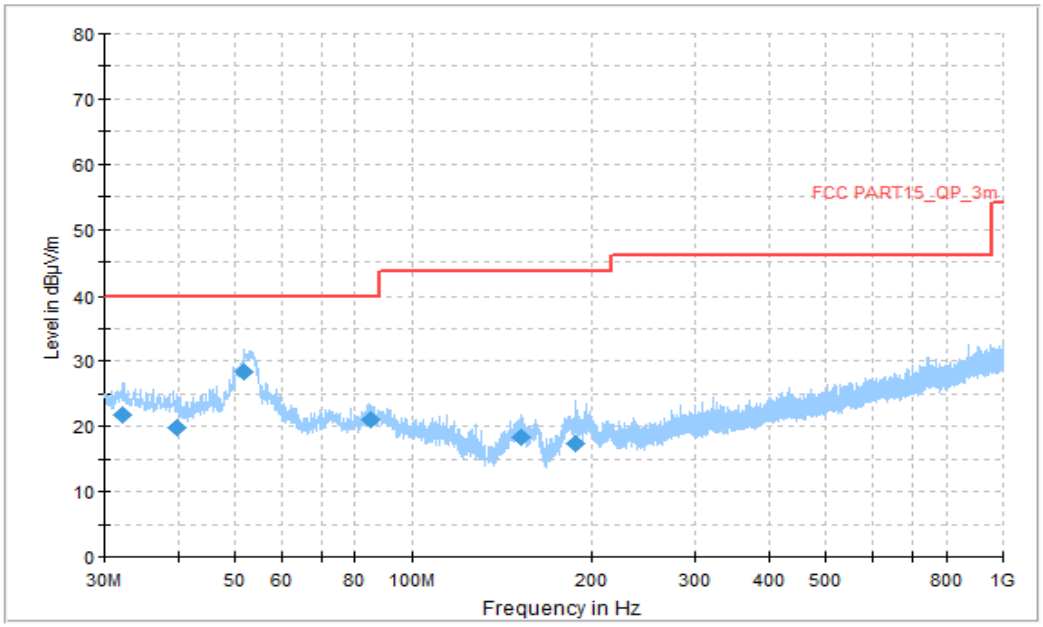


Figure A.1.33. Radiated Emission (LTE receiver Band 26, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBµV)
32.263333	21.87	40.00	18.13	V	-15.1	36.97
39.861667	19.91	40.00	20.09	V	-13.6	33.51
51.878889	28.41	40.00	11.59	V	-13.7	42.11
85.236111	20.92	40.00	19.08	V	-18.3	39.22
152.004444	18.37	43.52	25.15	V	-18.0	36.37
188.110000	17.45	43.52	26.07	V	-15.5	32.95

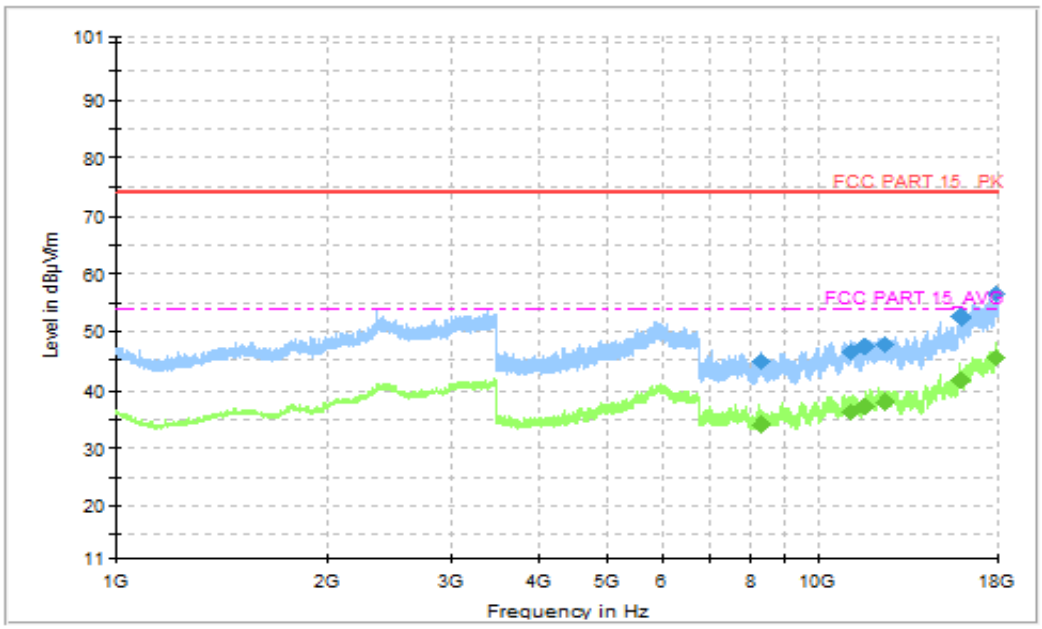


Figure A.1.34. Radiated Emission (LTE receiver Band 26, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
8312.769231	44.82	74.00	29.18	V	6.9	37.92
11148.923077	46.60	74.00	27.40	H	10.7	35.9
11671.846154	47.67	74.00	26.33	H	11.6	36.07
12472.615385	47.96	74.00	26.04	H	12.8	35.16
15936.923077	52.52	74.00	21.48	V	15.9	36.62
17883.692308	56.70	74.00	17.30	V	21.9	34.80

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
8312.769231	34.19	54.00	19.81	V	6.9	27.29
11148.923077	36.38	54.00	17.62	H	10.7	25.68
11671.846154	37.28	54.00	16.72	H	11.6	25.68
12472.615385	37.92	54.00	16.08	H	12.8	25.12
15936.923077	41.77	54.00	12.23	V	15.9	25.87
17883.692308	45.60	54.00	8.40	V	21.9	23.70

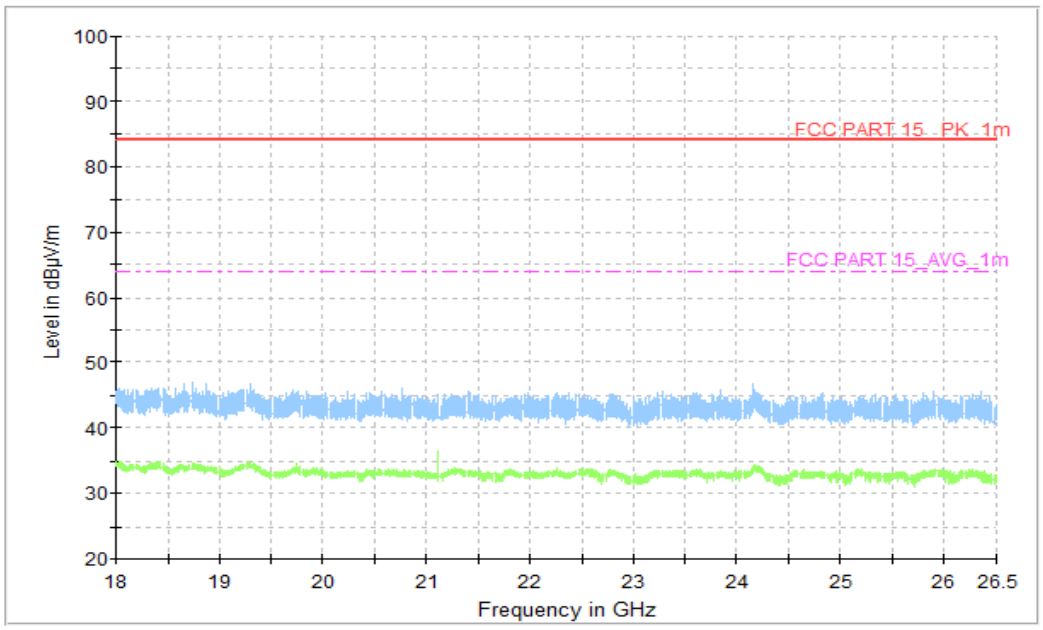


Figure A.1.35. Radiated Emission (LTE receiver Band 26, 18GHz to 26.5GHz)

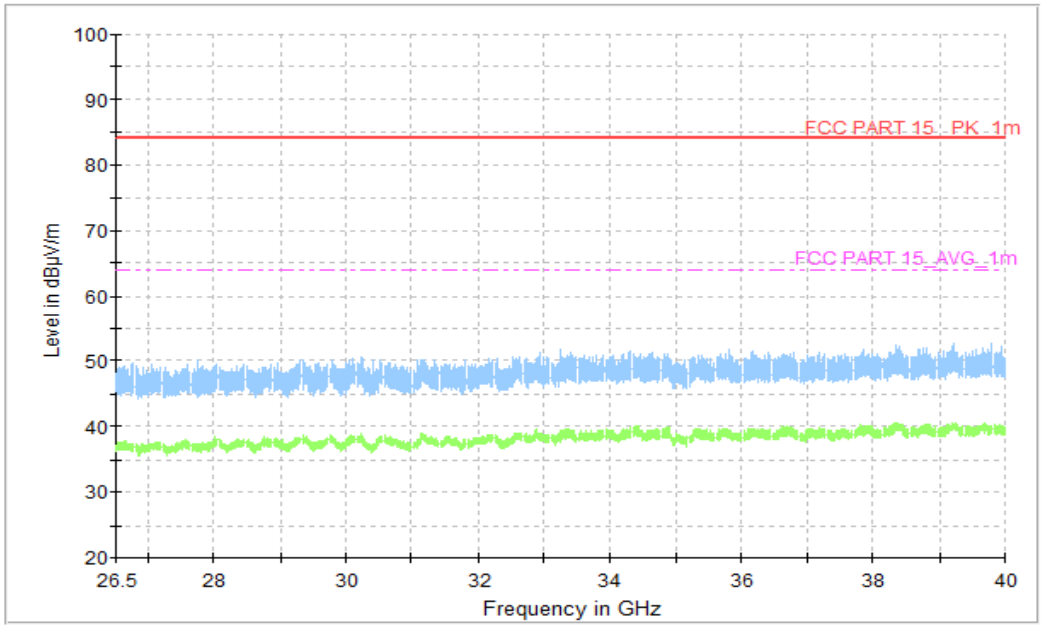


Figure A.1.36. Radiated Emission (LTE receiver Band 26, 26.5GHz to 40GHz)

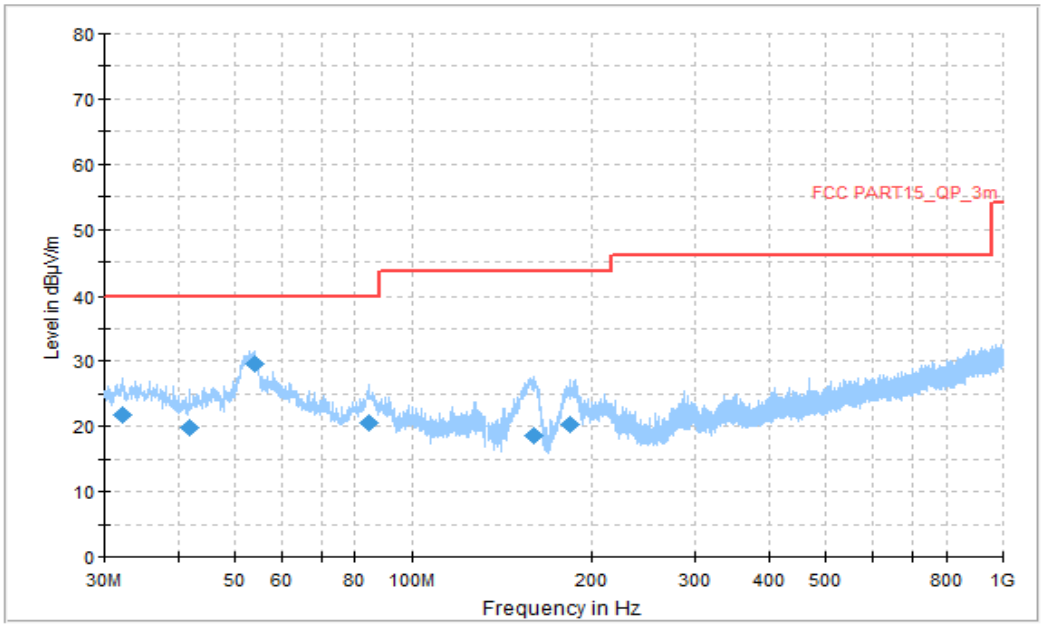


Figure A.1.37. Radiated Emission (NR receiver SA n5, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBµV)
32.263333	21.74	40.00	18.26	V	-15.1	36.84
41.801667	19.83	40.00	20.17	V	-13.3	33.13
53.818889	29.49	40.00	10.51	V	-14.2	43.69
84.212222	20.52	40.00	19.48	V	-18.6	39.12
160.033889	18.51	43.52	25.01	V	-17.5	36.01
183.852778	20.25	43.52	23.27	V	-16.1	36.35

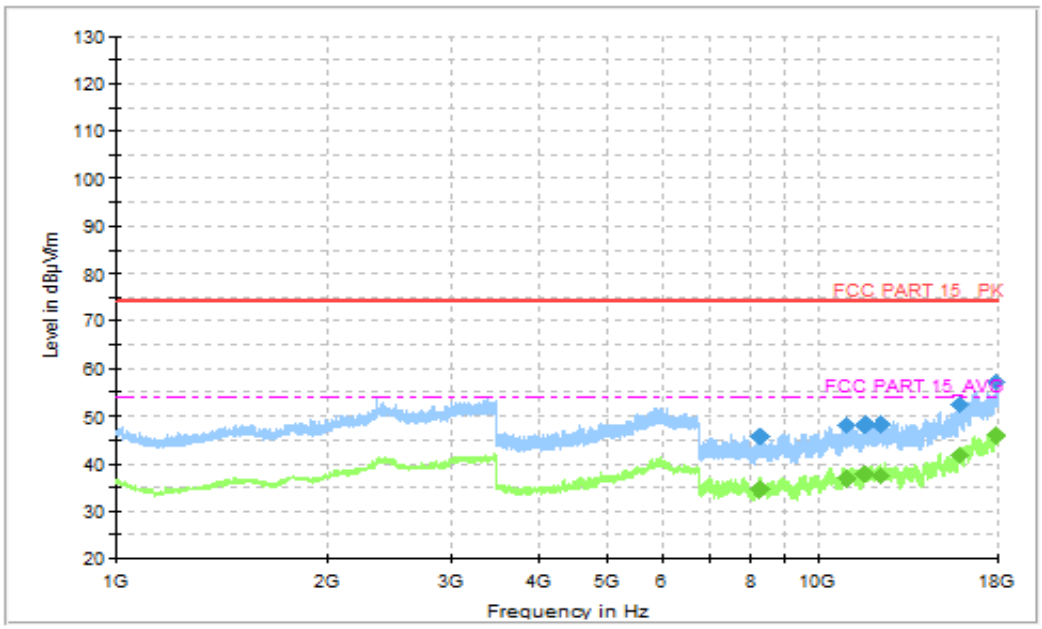


Figure A.1.38. Radiated Emission (NR receiver SA n5, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
8245.384616	45.65	74.00	28.35	V	6.8	38.85
10970.769231	47.84	74.00	26.16	V	10.9	36.94
11665.846154	48.20	74.00	25.80	V	11.6	36.60
12316.153846	48.17	74.00	25.83	V	12.8	35.37
15861.230769	52.19	74.00	21.81	V	15.5	36.69
17909.538462	56.88	74.00	17.12	H	21.8	35.08

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
8245.384616	34.59	54.00	19.41	V	6.8	27.79
10970.769231	36.92	54.00	17.08	V	10.9	26.02
11665.846154	37.71	54.00	16.29	V	11.6	26.11
12316.153846	37.51	54.00	16.49	V	12.8	24.71
15861.230769	42.01	54.00	11.99	V	15.5	26.51
17909.538462	45.96	54.00	8.04	H	21.8	24.16

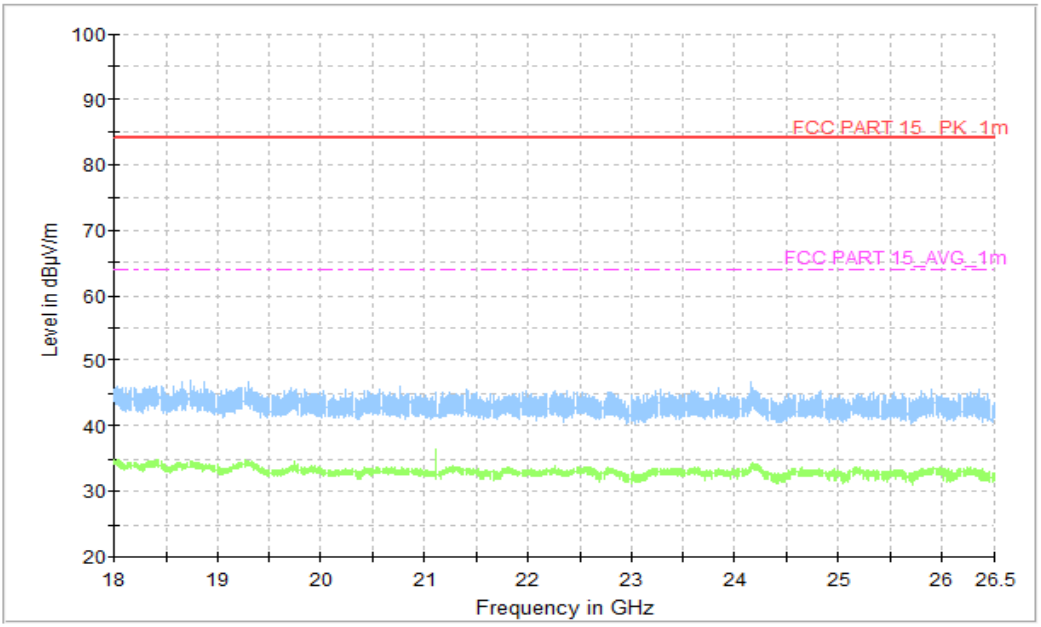


Figure A.1.39. Radiated Emission (NR receiver SA n5, 18GHz to 26.5GHz)

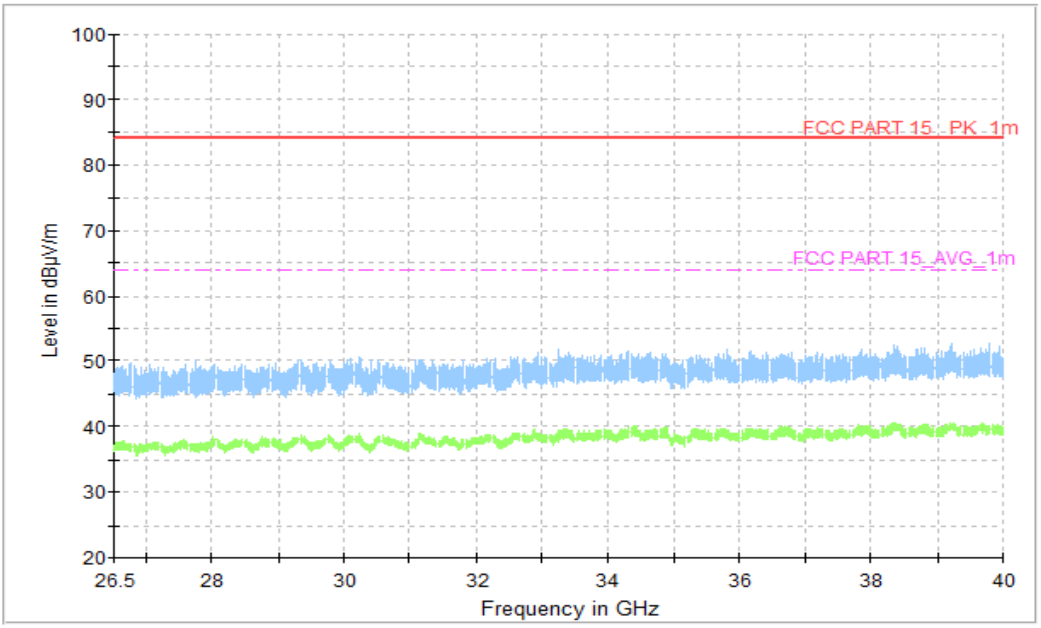


Figure A.1.40. Radiated Emission (NR receiver SA n5, 26.5GHz to 40GHz)

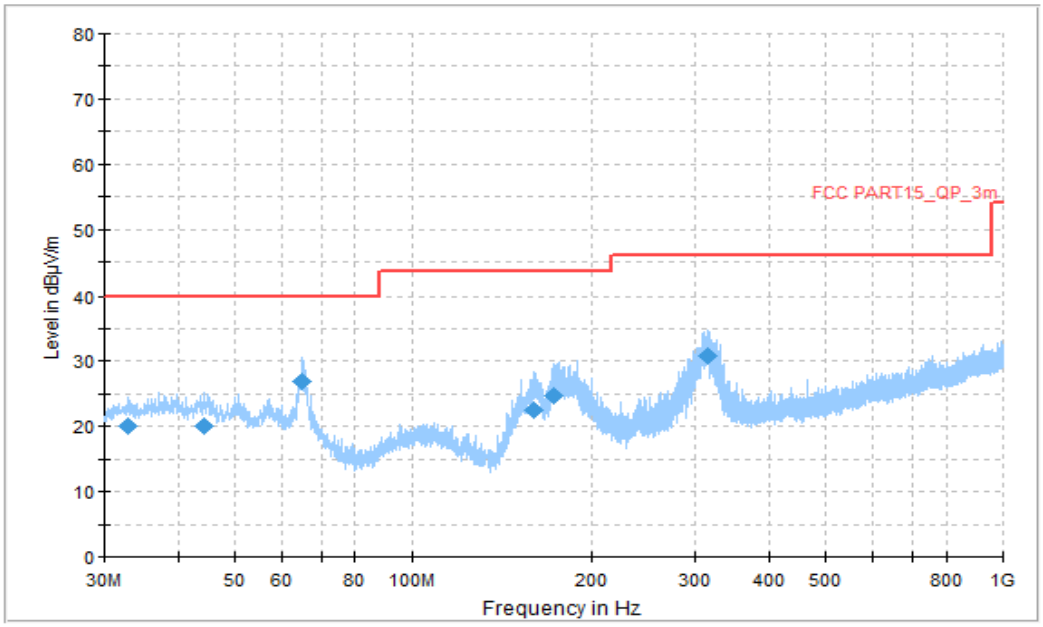


Figure A.1.41. Radiated Emission (Data Transfer: EUT TO PC, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBµV)
32.856111	19.94	40.00	20.06	V	-15.0	34.94
44.388333	20.11	40.00	19.89	H	-13.2	33.31
64.973889	26.98	40.00	13.02	H	-15.3	42.28
159.710556	22.41	43.52	21.11	V	-17.5	39.91
172.482222	24.77	43.52	18.75	H	-17.0	41.77
314.533333	30.84	46.02	15.18	H	-11.5	42.34

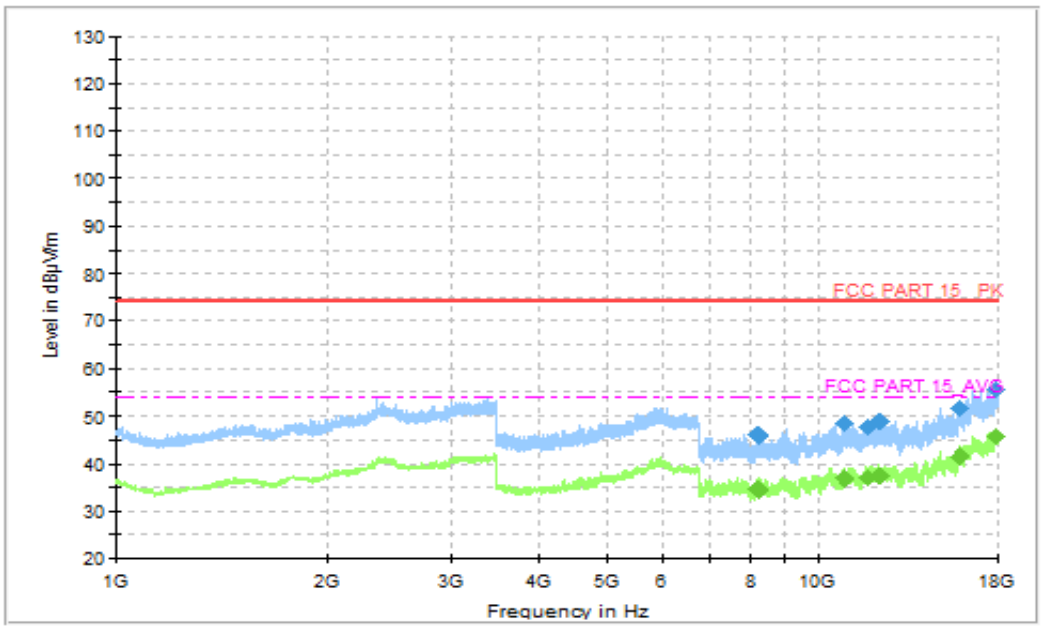


Figure A.1.42. Radiated Emission (Data Transfer: EUT TO PC, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
8230.615385	45.99	74.00	28.01	V	6.8	39.19
10954.615385	48.56	74.00	25.44	H	10.8	37.76
11819.076923	47.60	74.00	26.40	H	12.3	35.30
12225.230769	48.94	74.00	25.06	V	12.7	36.24
15893.076923	51.63	74.00	22.37	H	15.7	35.93
17927.538462	55.80	74.00	18.20	H	21.7	34.10

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
8230.615385	34.38	54.00	19.62	V	6.8	27.58
10954.615385	36.78	54.00	17.22	H	10.8	25.98
11819.076923	37.18	54.00	16.82	H	12.3	24.88
12225.230769	37.62	54.00	16.38	V	12.7	24.92
15893.076923	41.47	54.00	12.53	H	15.7	25.77
17927.538462	45.51	54.00	8.49	H	21.7	23.81

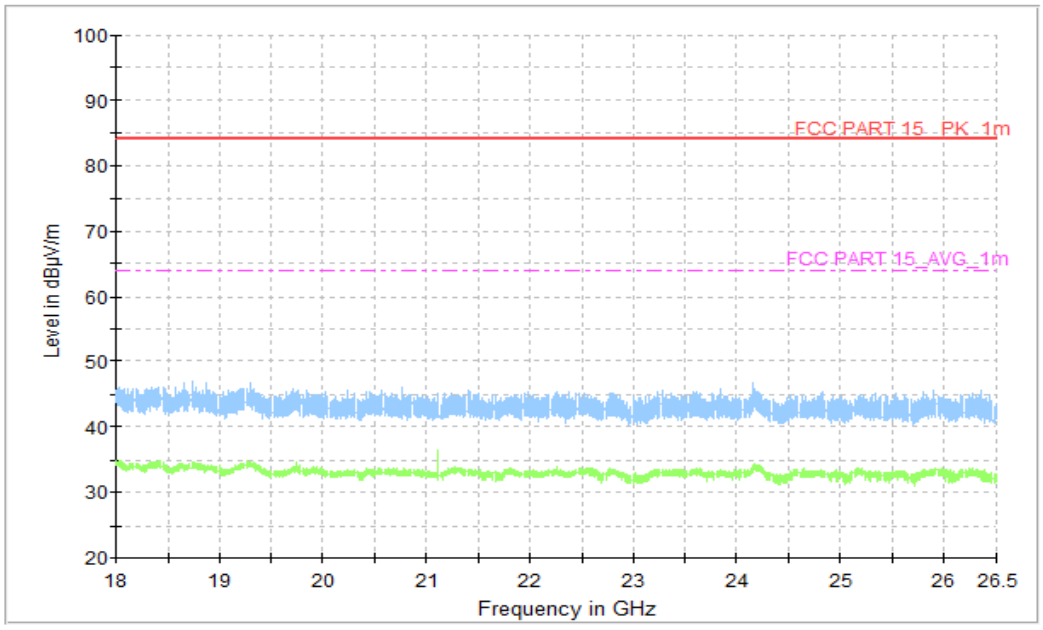


Figure A.1.43. Radiated Emission (Data Transfer: EUT TO PC, 18GHz to 26.5GHz)

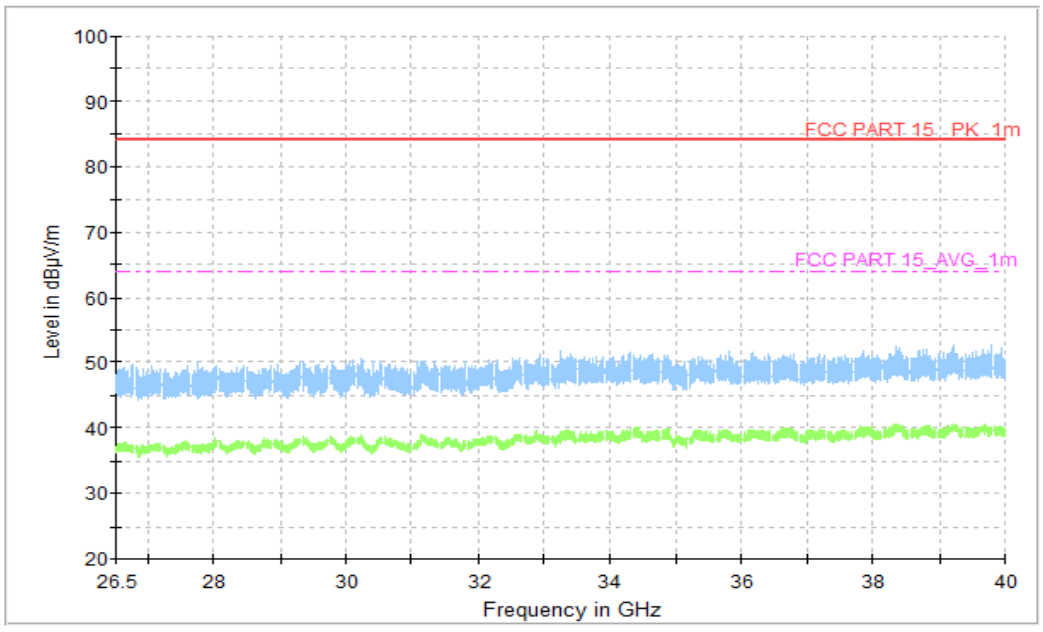


Figure A.1.44. Radiated Emission (Data Transfer: EUT TO PC, 26.5GHz to 40GHz)

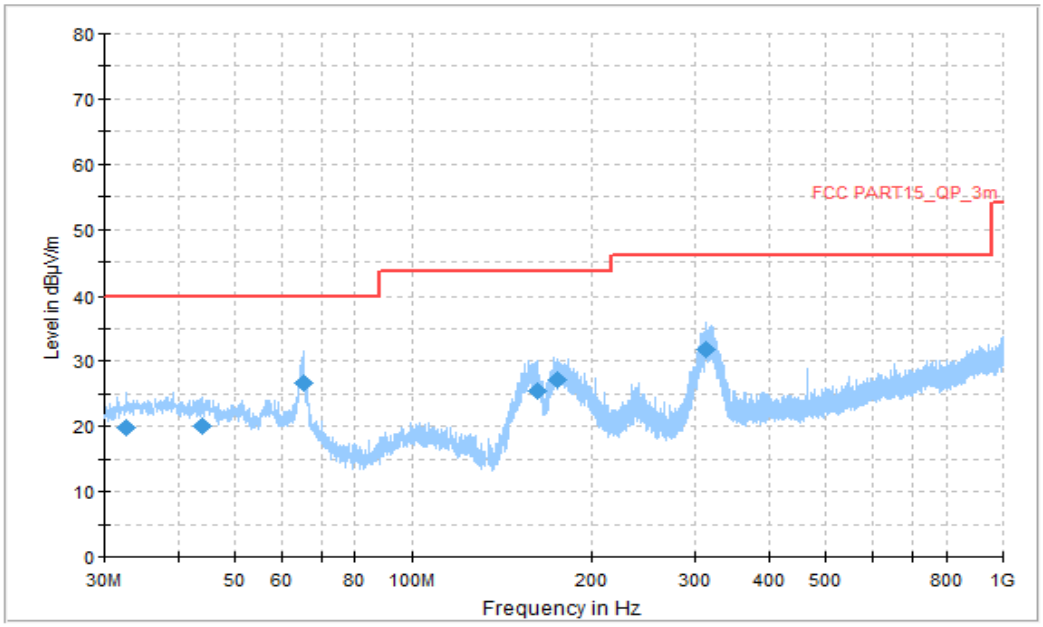


Figure A.1.45. Radiated Emission (Data Transfer: PC TO EUT, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBµV)
32.640556	19.81	40.00	20.19	V	-15.1	34.91
44.065000	20.13	40.00	19.87	V	-13.2	33.33
65.458889	26.68	40.00	13.32	H	-15.5	42.18
162.027778	25.46	43.52	18.06	V	-17.5	42.96
175.500000	27.27	43.52	16.25	H	-16.9	44.17
313.778889	31.87	46.02	14.15	H	-11.5	43.37

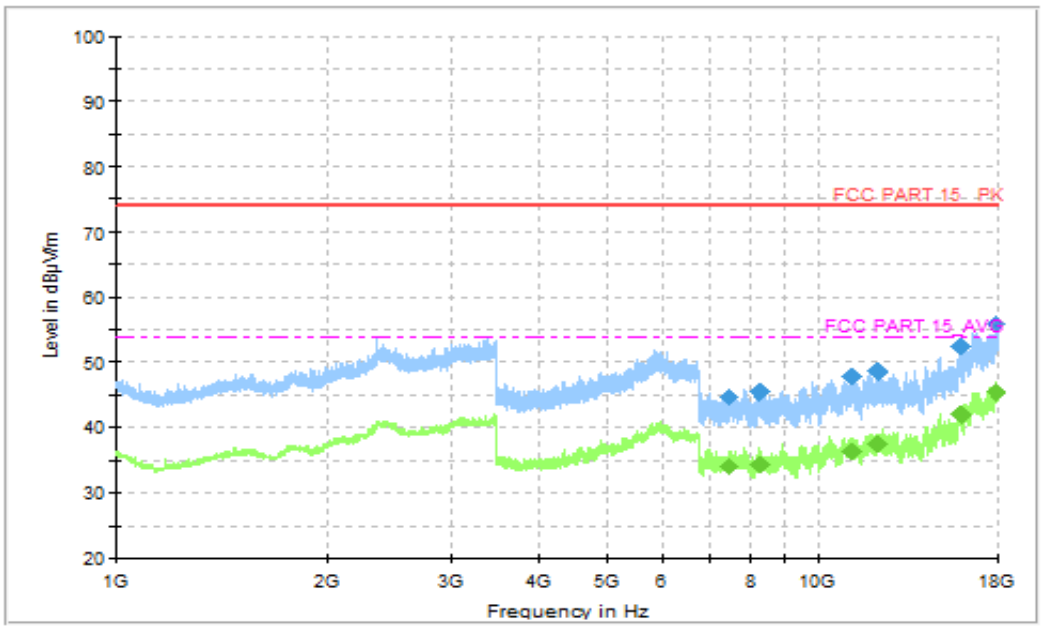


Figure A.1.46. Radiated Emission (Data Transfer: PC TO EUT, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
7469.076923	44.72	74.00	29.28	V	7.1	37.62
8243.538462	45.41	74.00	28.59	V	6.8	38.61
11153.076923	47.97	74.00	26.03	V	10.7	37.27
12145.846154	48.70	74.00	25.30	H	12.6	36.10
15941.076923	52.49	74.00	21.51	H	16.0	36.49
17940.461539	55.94	74.00	18.06	H	21.7	34.24

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
7469.076923	34.28	54.00	19.72	V	7.1	27.18
8243.538462	34.53	54.00	19.48	V	6.8	27.73
11153.076923	36.40	54.00	17.60	V	10.7	25.70
12145.846154	37.57	54.00	16.43	H	12.6	24.97
15941.076923	42.09	54.00	11.91	H	16.0	26.09
17940.461539	45.37	54.00	8.63	H	21.7	23.67

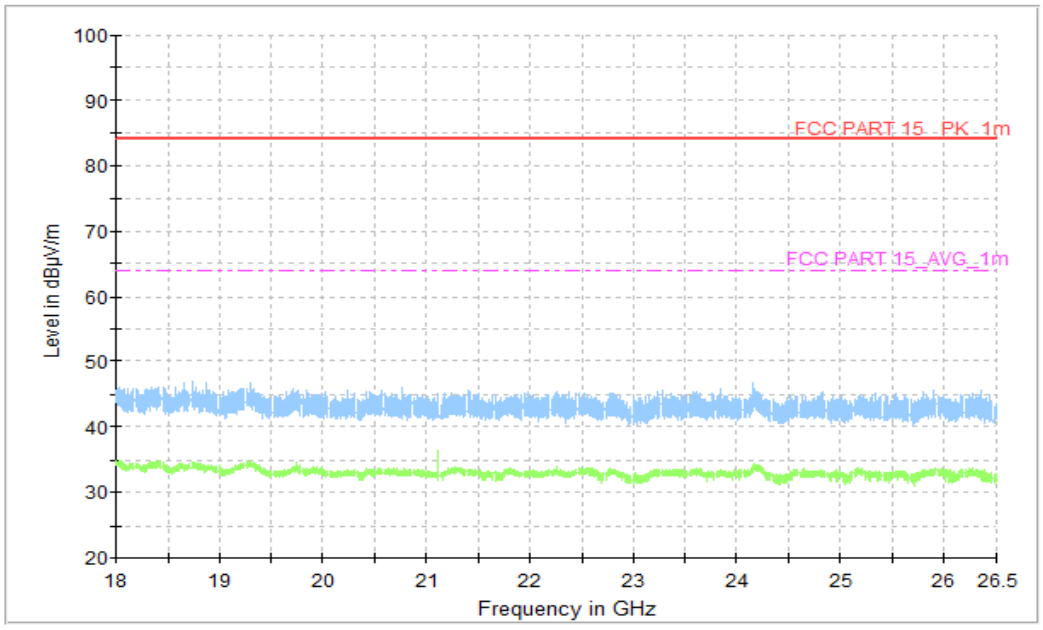


Figure A.1.47. Radiated Emission (Data Transfer: PC TO EUT, 18GHz to 26.5GHz)

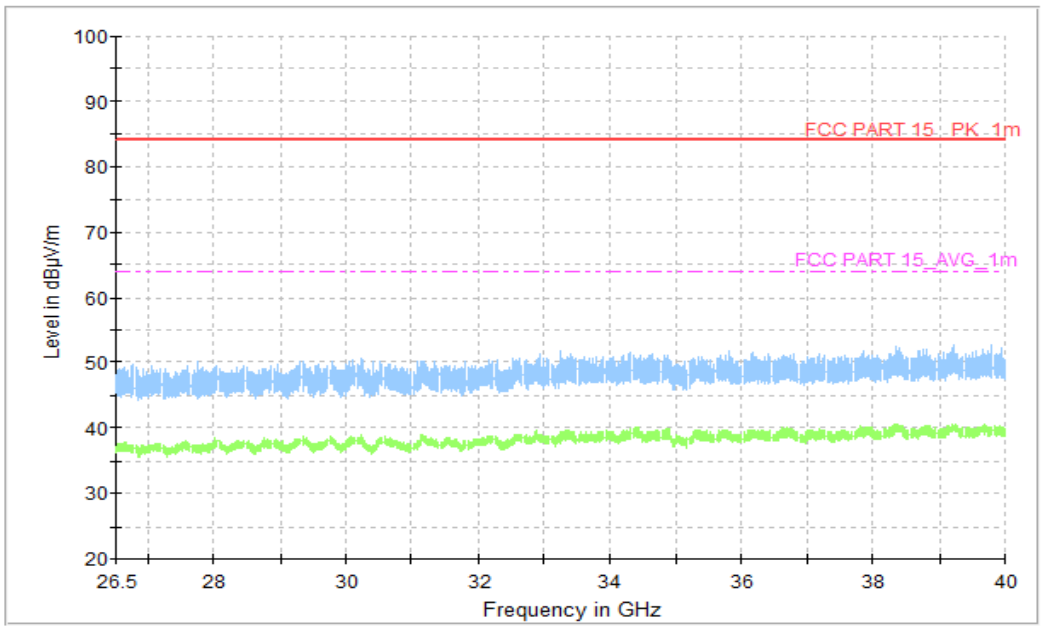


Figure A.1.48. Radiated Emission (Data Transfer: PC TO EUT, 26.5GHz to 40GHz)

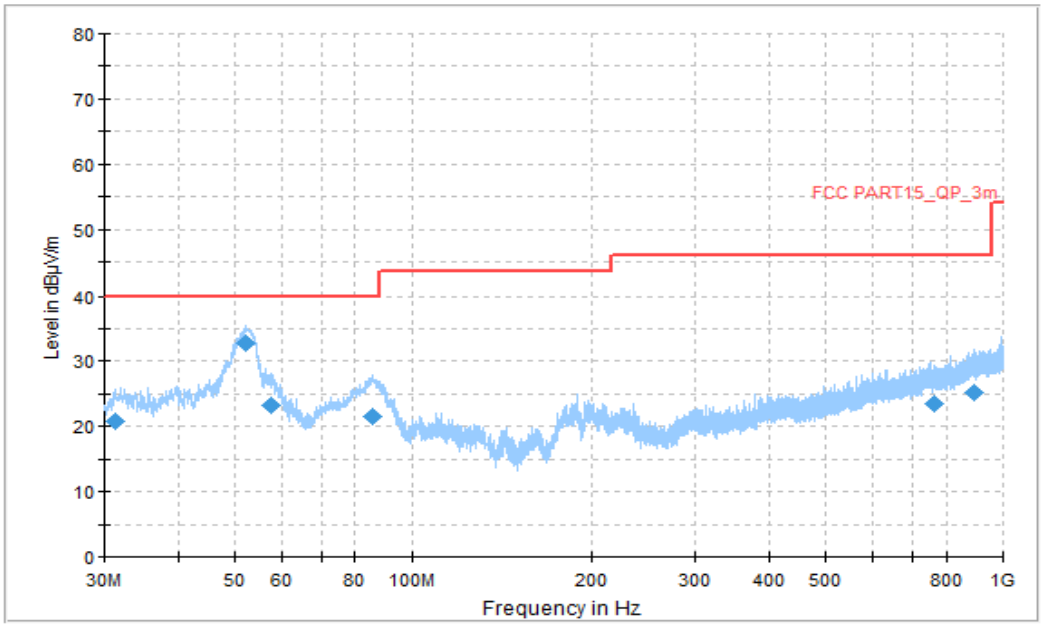


Figure A.1.49. Radiated Emission (NR receiver SA n5, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBµV)
31.239444	20.69	40.00	19.31	V	-15.3	35.99
52.202222	32.72	40.00	7.28	V	-13.8	46.52
57.752778	23.18	40.00	16.82	V	-12.8	35.98
85.667222	21.45	40.00	18.55	V	-18.2	39.65
762.619444	23.58	46.02	22.44	V	-2.1	25.68
891.575556	25.26	46.02	20.76	H	-0.2	25.46

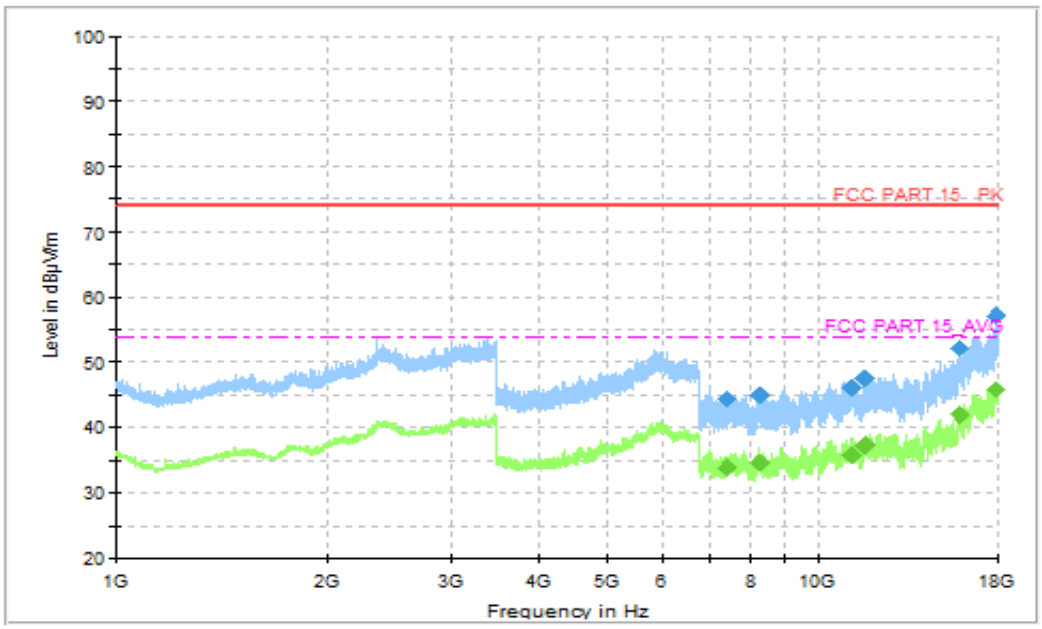


Figure A.1.50. Radiated Emission (NR receiver SA n5, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
7439.076923	44.46	74.00	29.54	H	7.0	37.46
8246.769231	44.95	74.00	29.05	H	6.8	38.15
11180.769231	46.13	74.00	27.87	H	10.7	35.43
11684.769231	47.61	74.00	26.39	H	11.6	36.01
15924.000000	52.21	74.00	21.79	H	15.9	36.31
17915.076923	57.09	74.00	16.91	H	21.8	35.29

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
7439.076923	33.90	54.00	20.10	H	7.0	26.90
8246.769231	34.65	54.00	19.35	H	6.8	27.85
11180.769231	35.96	54.00	18.04	H	10.7	25.26
11684.769231	37.34	54.00	16.66	H	11.6	25.74
15924.000000	41.97	54.00	12.03	H	15.9	26.07
17915.076923	45.98	54.00	8.02	H	21.8	24.18

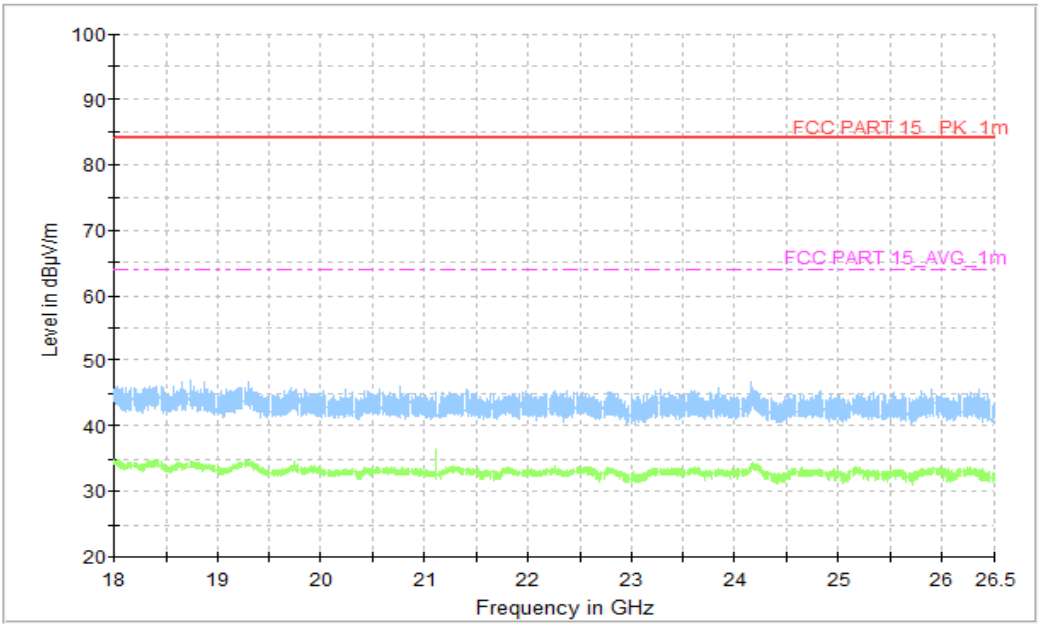


Figure A.1.51. Radiated Emission (NR receiver SA n5, 18GHz to 26.5GHz)

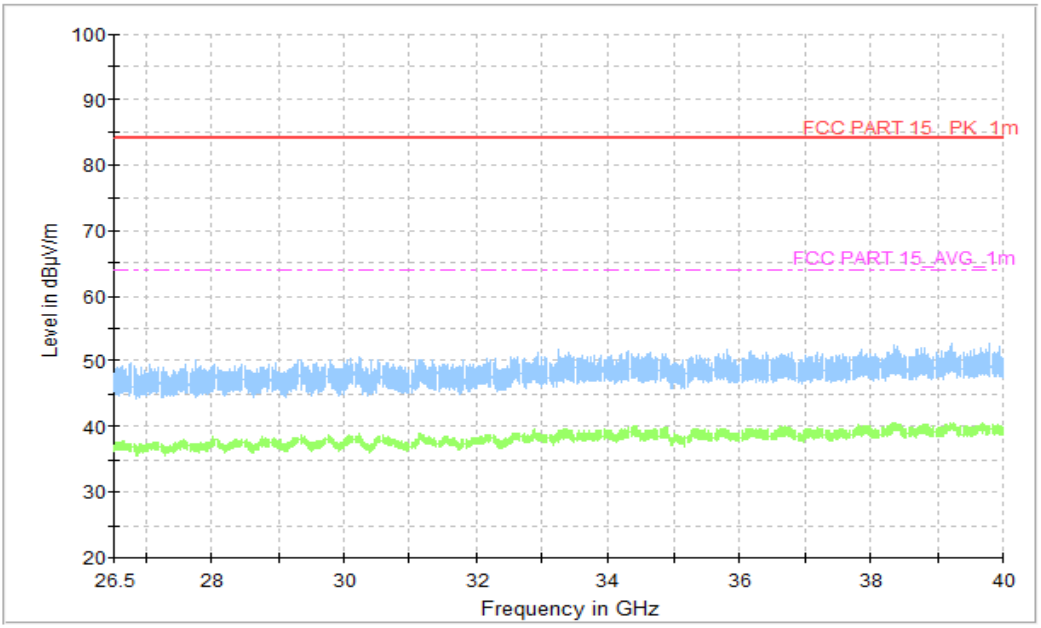


Figure A.1.52. Radiated Emission (NR receiver SA n5, 26.5GHz to 40GHz)

A.2 Conducted Emission (§15.107(a))

Reference

FCC: 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 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.

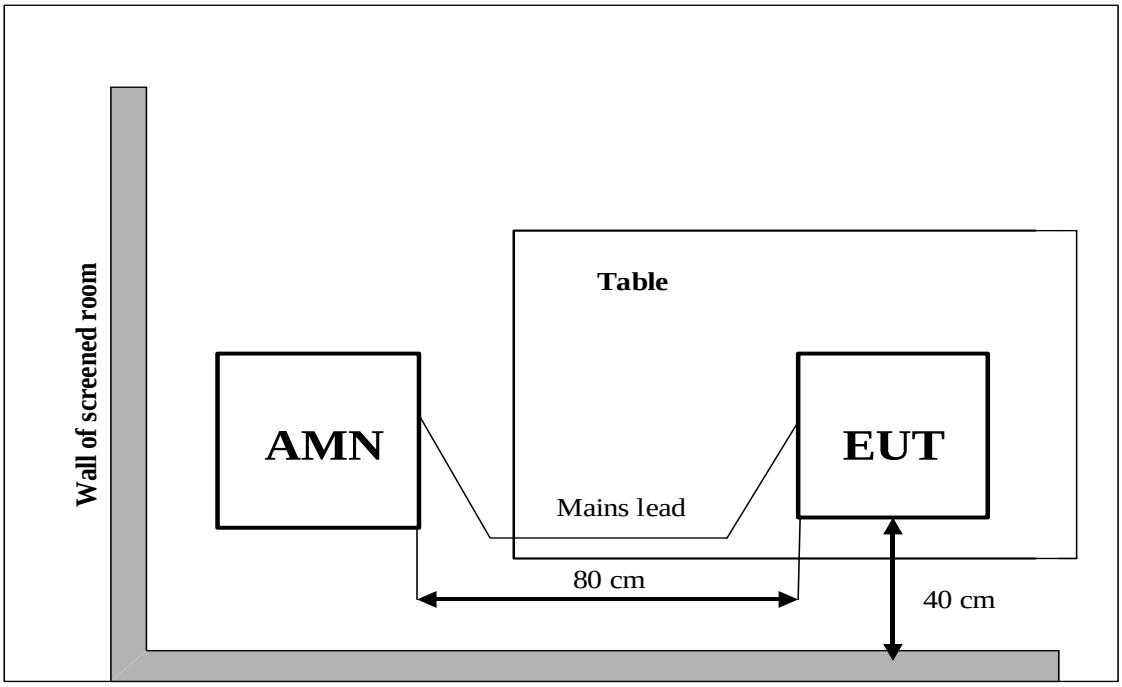
Video Player: The EUT is connected to a charger for charging and keeping on playing mp3.

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 EUT or USB flash disk reading and erasing the data after copy action was finished.

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.2.4Test 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) UT06aa/Set.1	Conclusion
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: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV) UT06aa/Set.1	Conclusion
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.				

Video Player

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV) UT06aa/Set.1	Conclusion
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.				

Video Player

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV) UT06aa/Set.1	Conclusion
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.				

Data Transfer

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV) UT06aa/Set.2	Conclusion
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: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV) UT06aa/Set.2	Conclusion
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.				

Video Player

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV) UT06aa/Set.3	Conclusion
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.				

Video Player

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV) UT06aa/Set.3	Conclusion
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.				

AC Input Port/ Voltage: 120V/60Hz

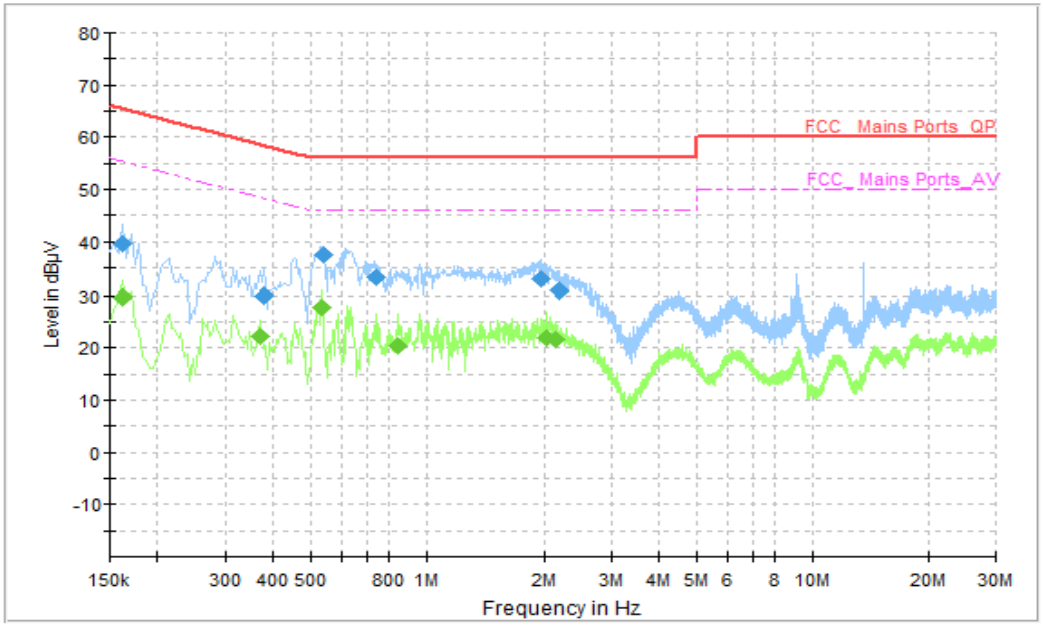


Figure A.2.1. Conducted Emission (Camera)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	PMea (dBµV)
0.162000	39.74	65.36	25.63	L1	10	29.74
0.378000	29.99	58.32	28.34	L1	10	19.99
0.538000	37.34	56.00	18.66	L1	10	27.34
0.742000	33.20	56.00	22.80	L1	10	23.20
1.974000	33.00	56.00	23.00	N	10	23
2.194000	30.83	56.00	25.17	N	10	20.83

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	PMea (dBµV)
0.162000	29.63	55.36	25.73	L1	10	19.63
0.370000	22.21	48.50	26.29	L1	10	12.21
0.534000	27.65	46.00	18.35	L1	10	17.65
0.846000	20.40	46.00	25.60	L1	10	10.40
2.022000	21.89	46.00	24.11	N	10	11.89
2.134000	21.58	46.00	24.42	N	10	11.58

AC Input Port/ Voltage: 240V/60Hz

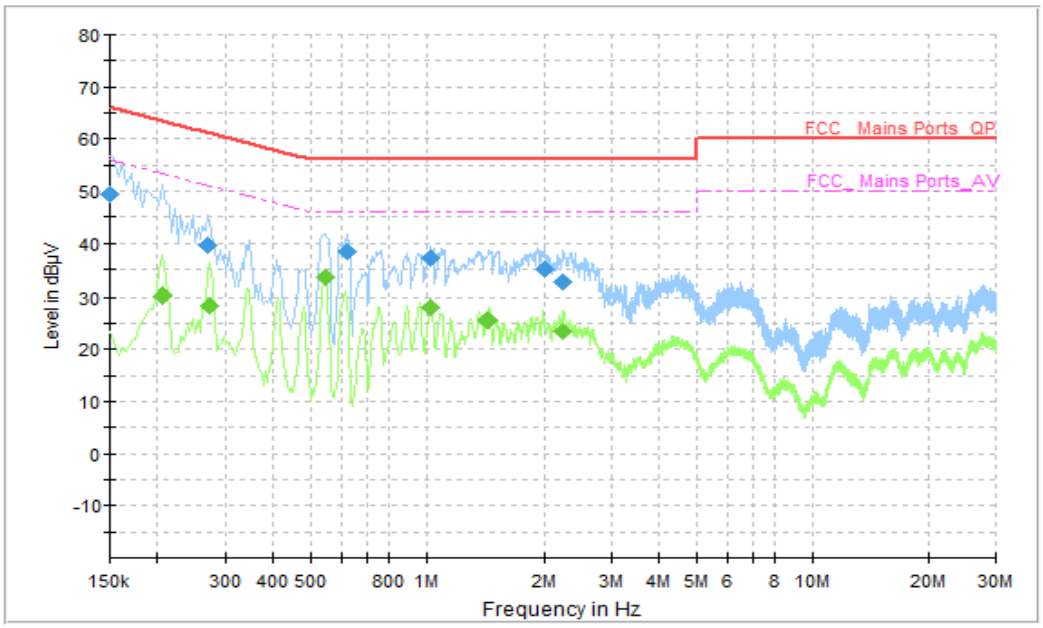


Figure A.2.2. Conducted Emission (Camera)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	PMea (dBµV)
0.150000	49.39	66.00	16.61	L1	10	39.39
0.270000	39.49	61.12	21.63	L1	10	29.49
0.622000	38.44	56.00	17.56	L1	10	28.44
1.030000	37.06	56.00	18.94	L1	10	27.06
2.006000	35.19	56.00	20.81	N	10	25.19
2.250000	32.59	56.00	23.41	N	10	22.59

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	PMea (dBµV)
0.206000	30.06	53.37	23.31	L1	10	20.06
0.274000	28.41	51.00	22.59	L1	10	18.41
0.546000	33.57	46.00	12.43	L1	10	23.57
1.030000	28.16	46.00	17.84	L1	10	18.16
1.438000	25.70	46.00	20.30	L1	10	15.7
2.250000	23.38	46.00	22.62	N	10	13.38

AC Input Port/ Voltage: 120V/60Hz

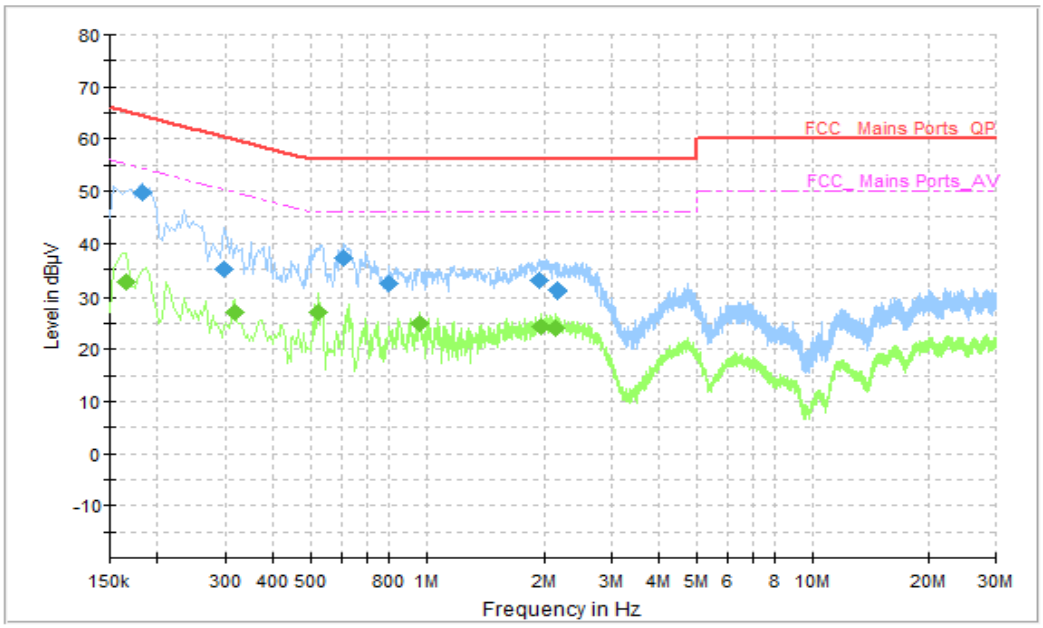


Figure A.2.3. Conducted Emission(Video Player)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	PMea (dBµV)
0.182000	49.65	64.39	14.75	N	9	40.65
0.298000	34.98	60.30	25.31	N	10	24.98
0.610000	37.23	56.00	18.77	L1	10	27.23
0.802000	32.26	56.00	23.74	L1	10	22.26
1.954000	33.05	56.00	22.95	N	10	23.05
2.170000	30.99	56.00	25.01	N	10	20.99

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	PMea (dBµV)
0.166000	32.49	55.16	22.67	L1	10	22.49
0.318000	27.18	49.76	22.58	L1	10	17.18
0.522000	27.04	46.00	18.96	L1	10	17.04
0.962000	24.86	46.00	21.14	L1	10	14.86
1.970000	24.38	46.00	21.62	N	10	14.38
2.134000	24.02	46.00	21.98	N	10	14.02

AC Input Port/ Voltage: 240V/60Hz

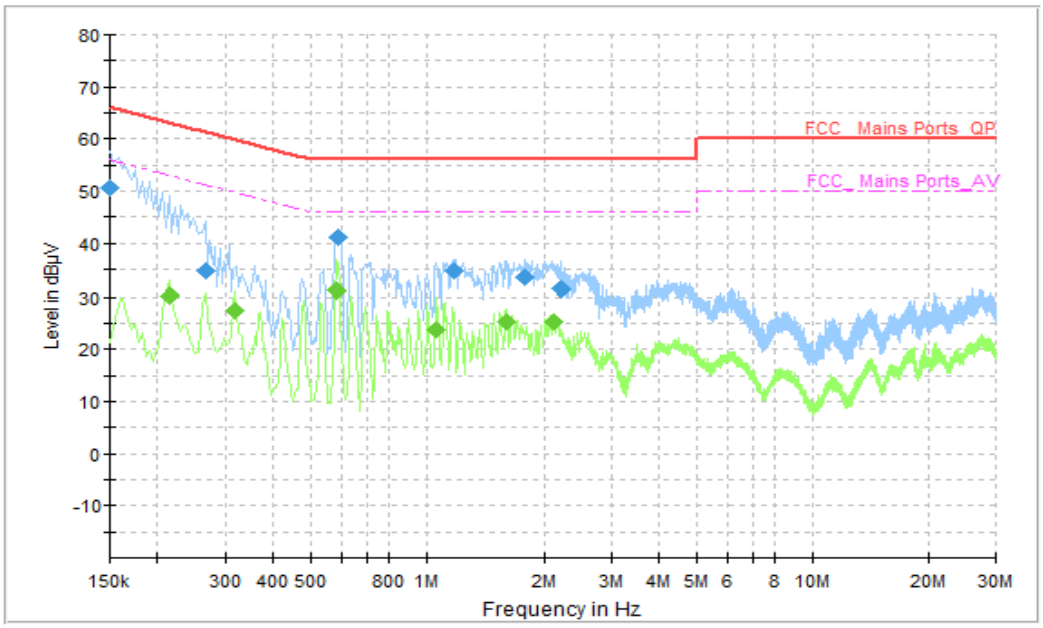


Figure A.2.4. Conducted Emission (Video Player)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	PMea (dBµV)
0.150000	50.79	66.00	15.21	L1	10	40.79
0.266000	34.68	61.24	26.56	N	10	24.68
0.586000	41.19	56.00	14.81	N	10	31.19
1.186000	34.64	56.00	21.36	N	10	24.64
1.790000	33.61	56.00	22.39	L1	10	23.61
2.222000	31.39	56.00	24.61	L1	10	21.39

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	PMea (dBµV)
0.214000	30.30	53.05	22.75	N	10	20.30
0.318000	27.42	49.76	22.34	N	10	17.42
0.582000	30.93	46.00	15.07	N	10	20.93
1.058000	23.87	46.00	22.13	N	10	13.87
1.594000	25.12	46.00	20.88	N	10	15.12
2.126000	25.38	46.00	20.62	L1	10	15.38

AC Input Port/ Voltage: 120V/60Hz

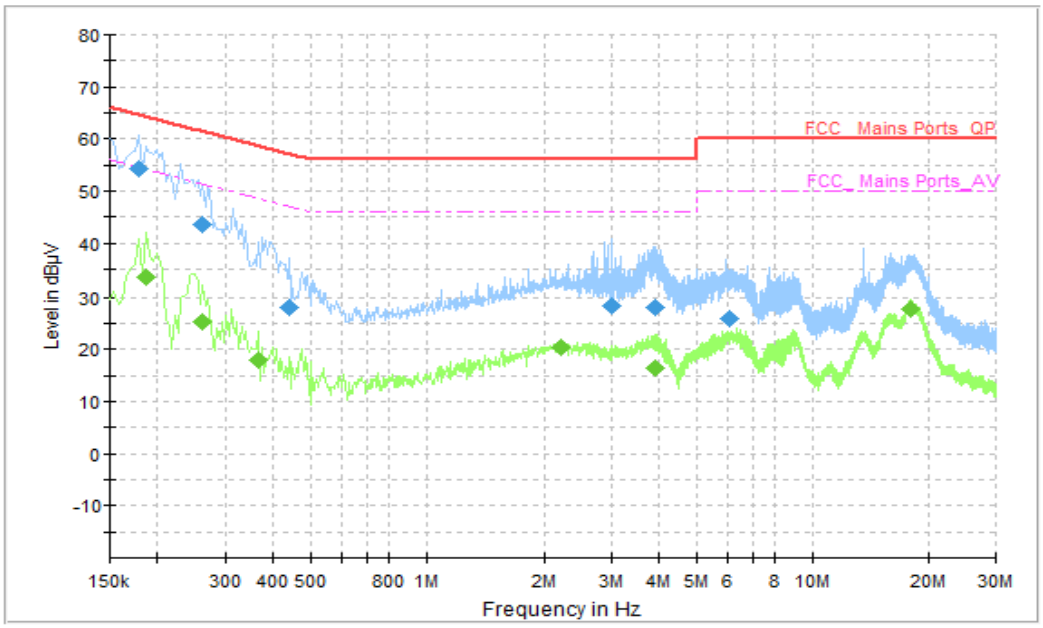


Figure A.2.5. Conducted Emission(Data Transfer)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	PMea (dBµV)
0.178000	54.46	64.58	10.12	L1	10	44.46
0.262000	43.48	61.37	17.89	N	10	33.48
0.438000	27.87	57.10	29.23	N	10	17.87
3.002000	28.26	56.00	27.74	L1	10	18.26
3.910000	28.06	56.00	27.94	L1	10	18.06
6.058000	25.99	60.00	34.01	N	10	15.99

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	PMea (dBµV)
0.186000	33.39	54.21	20.82	L1	10	23.39
0.262000	25.36	51.37	26.00	N	10	15.36
0.366000	17.94	48.59	30.65	N	10	7.94
2.210000	20.39	46.00	25.61	N	10	10.39
3.910000	16.39	46.00	29.61	L1	10	6.39
18.062000	27.62	50.00	22.38	L1	10	17.62

AC Input Port/ Voltage: 240V/60Hz

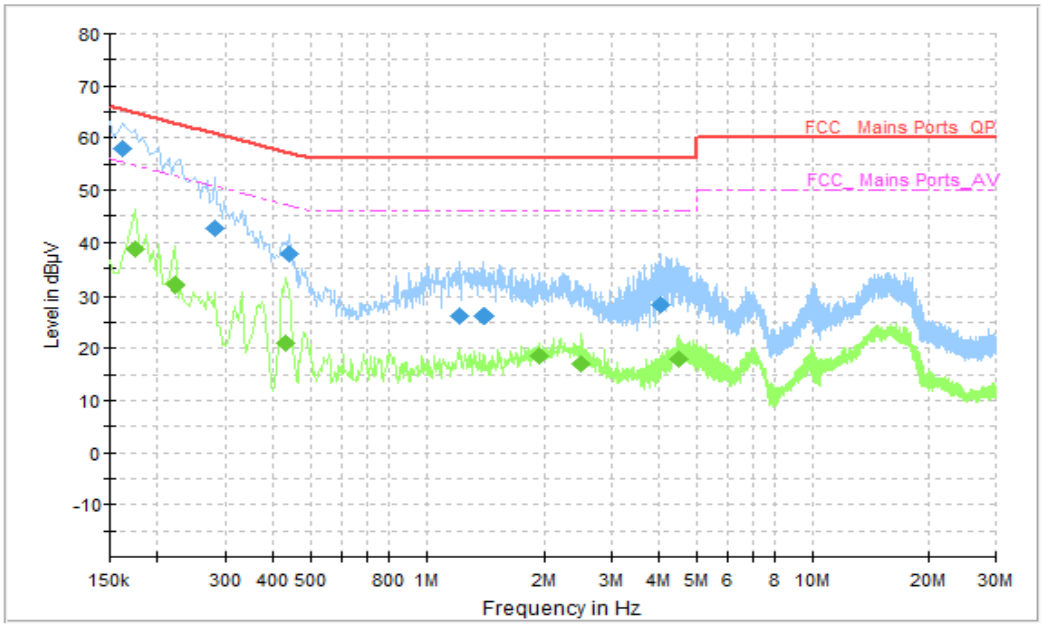


Figure A.2.6. Conducted Emission(Data Transfer)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	PMea (dBµV)
0.162000	57.88	65.36	7.48	L1	10	47.88
0.282000	42.55	60.76	18.21	N	10	32.55
0.438000	37.86	57.10	19.24	N	10	27.86
1.214000	26.33	56.00	29.67	L1	10	16.33
1.410000	26.24	56.00	29.76	N	10	16.24
4.030000	28.40	56.00	27.60	L1	10	18.40

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	PMea (dBµV)
0.174000	38.57	54.77	16.20	L1	10	28.57
0.222000	32.10	52.74	20.65	N	10	22.1
0.430000	20.90	47.25	26.36	L1	10	10.90
1.950000	18.57	46.00	27.43	N	10	8.57
2.490000	17.12	46.00	28.88	N	10	7.12
4.502000	18.01	46.00	27.99	N	10	8.01

AC Input Port/ Voltage: 120V/60Hz

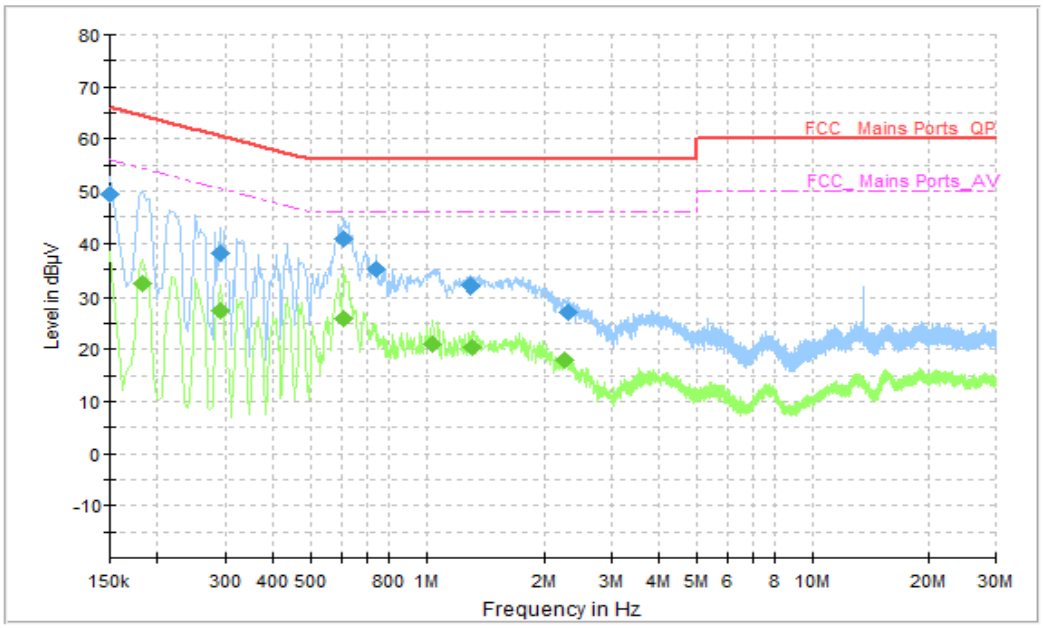


Figure A.2.7. Conducted Emission(Video Player)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	PMea (dBµV)
0.150000	49.35	66.00	16.65	L1	10	39.35
0.290000	38.22	60.52	22.30	N	10	28.22
0.606000	40.83	56.00	15.17	N	10	30.83
0.742000	35.15	56.00	20.85	N	10	25.15
1.306000	32.00	56.00	24.00	N	10	22
2.318000	27.13	56.00	28.87	L1	10	17.13

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	PMea (dBµV)
0.182000	32.17	54.39	22.23	N	9	23.17
0.290000	27.34	50.52	23.18	N	10	17.34
0.610000	26.01	46.00	19.99	N	10	16.01
1.034000	20.96	46.00	25.04	N	10	10.96
1.322000	20.33	46.00	25.67	N	10	10.33
2.274000	18.01	46.00	27.99	L1	10	8.01

AC Input Port/ Voltage: 240V/60Hz

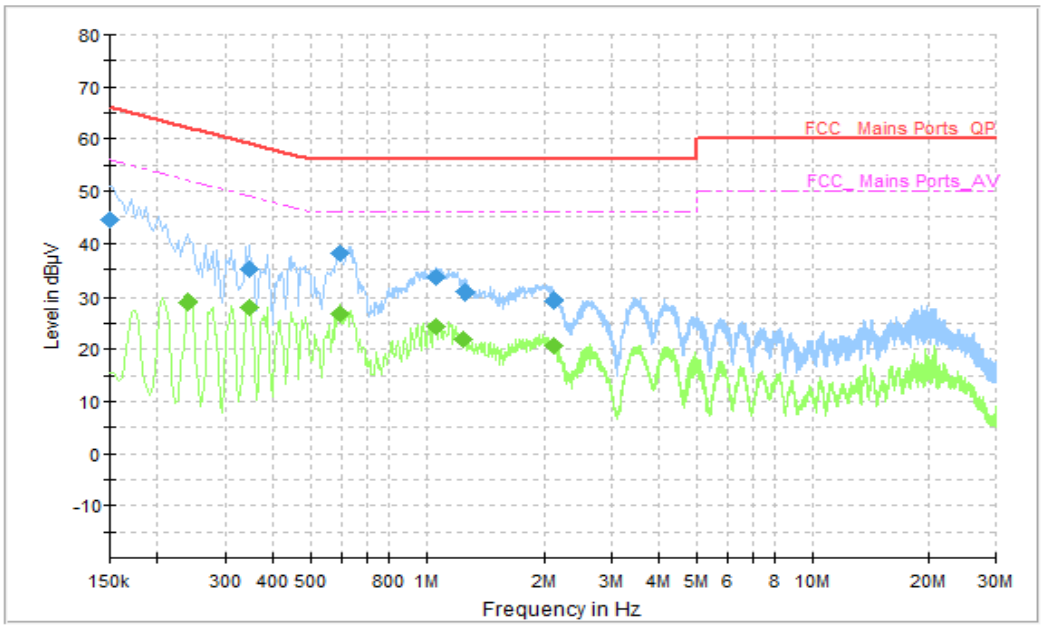


Figure A.2.8. Conducted Emission (Video Player)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	PMea (dBµV)
0.150000	44.59	66.00	21.41	L1	10	34.59
0.346000	35.17	59.06	23.89	N	10	25.17
0.598000	38.04	56.00	17.96	N	10	28.04
1.054000	33.40	56.00	22.60	N	10	23.40
1.258000	30.67	56.00	25.33	N	10	20.67
2.126000	29.31	56.00	26.69	L1	10	19.31

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	PMea (dBµV)
0.238000	28.98	52.17	23.18	N	10	18.98
0.346000	27.96	49.06	21.09	N	10	17.96
0.598000	26.71	46.00	19.29	N	10	16.71
1.054000	24.42	46.00	21.58	N	10	14.42
1.250000	21.88	46.00	24.13	N	10	11.88
2.126000	20.62	46.00	25.38	L1	10	10.62

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