



TEST REPORT

No.I22N02185-EMC

for

unitech electronics co., ltd.

Rugged Handheld Computer

Model Name: PA768

With

Hardware Version: FH09_MB_PCB_V1.3

Software Version: RAYA_V03.25b02_20221010

FCC ID:HLEPA768BWNW

Issued Date: 2022-12-01

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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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I22N02185-EMC	Rev.0	1st edition	2022-12-01

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	Rugged Handheld Computer
Model Name	PA768
Applicant's name	unitech electronics co., ltd.
Manufacturer's Name	unitech electronics co., ltd.

1.2. Test Standards

FCC Part 15, Subpart B (10-1-2021 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: Building G, Shenzhen International Innovation Center, No.1006
Shennan Road, Futian District, Shenzhen, Guangdong, China

1.5. Project data

Testing Start Date: 2022-10-30

Testing End Date: 2022-11-28

1.6. Signature

Huang Kai Yang
(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: unitech electronics co., ltd..
Address: 5F., No. 136, Ln. 235, Baoqiao Rd., Xindian Dist., New Taipei City
231028 , Taiwan
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
231028 , Taiwan
Contact Ben Chiang
Email BenC@tw.ute.com
Tel. 886-2-8912-1122



3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT

(AE)

3.1. About EUT

Description	Rugged Handheld Computer
Model Name	PA768
FCC ID	HLEPA768BWNW
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
UT07aa	358585240001923	FH09_MB_ PCB_V1.3	RAYA_V03.25b02_20221010	2022-10-24
UT09aa	358585240001550	FH09_MB_ PCB_V1.3	RAYA_V03.25b02_20221010	2022-10-24

*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
AE1-1	
Model	1400-900069G
Manufacturer	LIFUN TECHNOLOGY CO.,LTD.
4850	4950mAh
Nominal Voltage	3.85v
AE2-1	
Model	S018BYU12000150
Manufacturer	Ten Pao Electronics (Huizhou) Co. Ltd.
AE3-1	
Model	1550-905908G
Manufacturer	JHEN VEI ELECTRONIC CO., LTD.

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

AE: ancillary equipment



3.4. EUT Set-ups

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



3.5. General Description

The Equipment Under Test (EUT) is a model of Rugged Handheld Computer.

It supports GSM 850/900/1800/1900MHz, WCDMA Bands 1/2/5/8,

/LTE Bands 1/2/3/4/5/7/8/17/20/28/34/38/39/40/41/71 and 5G NR n1/2/3/5/28/41/71/77/78/79

It has Video Player, Camera, USB memory, Bluetooth, Scanner, Wi-Fi and GNSS functions.

It consists of normal options: Battery, Charger, and USB 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°C
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	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	4.86dB(k=2)
	1GHz-18GHz	4.82dB(k=2)
	18GHz-40GHz	2.90dB(k=2)
Conducted Emission	150kHz-30MHz	2.62dB(k=2)

8. MEASURING APPARATUS UTILIZED

No.	Name	Model	Serial Number	Manufacturer	Calibration Due date	Calibration Period
1.	Test Receiver	ESR7	101676	R&S	2022.11.24	1 year
2.	Test Receiver	ESCI	100702	R&S	2023.01.12	1 year
3.	Spectrum Analyzer	FSV40	101192	R&S	2023.01.12	1 year
4.	BiLog Antenna	3142E	0224831	ETS-Lindgren	2024.05.27	3 years
5.	Horn Antenna	3117	00066577	ETS-Lindgren	2025.03.15	3 years
6.	LISN	ENV216	102067	R&S	2023.07.11	1 year
7.	Chamber	FACT3-2.0	1285	ETS-Lindgren	2023.05.29	2 years
8.	Software	EMC32	V10.50.40	R&S	/	/
9.	Universal Radio Communication Tester	CMU200	114545	R&S	2023.01.12	1 year
10.	Universal Radio Communication Tester	CMW500	152499	R&S	2023.07.14	1 year
11.	Universal Radio Communication Tester	MT8821C	6201563766	Anritsu	2023.01.12	1 year
12.	Universal Radio Communication Tester	MT8000A	6261987936	Anritsu	2023.03.29	1 year
13.	Horn Antenna	QSH-SL-18-2 6-S-20	17013	Q-par	2023.01.06	3 years
14.	Horn Antenna	QSH-SL-8-26- 40-K-20	17014	Q-par	2023.01.06	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	/	/

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.

Scanner: The EUT is connected to a charger for charging and keeping on scanning.

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 TF Card, 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.

5G SA 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:

GSM850MHz, WCDMA Band5, LTE Band 5,LTE Band 17 and 5G 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



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with ANSI C63.4-2014 and manipulated to obtain worst case emissions.

A.1.3 Measurement Limit

Limit from Part 15.109(a)

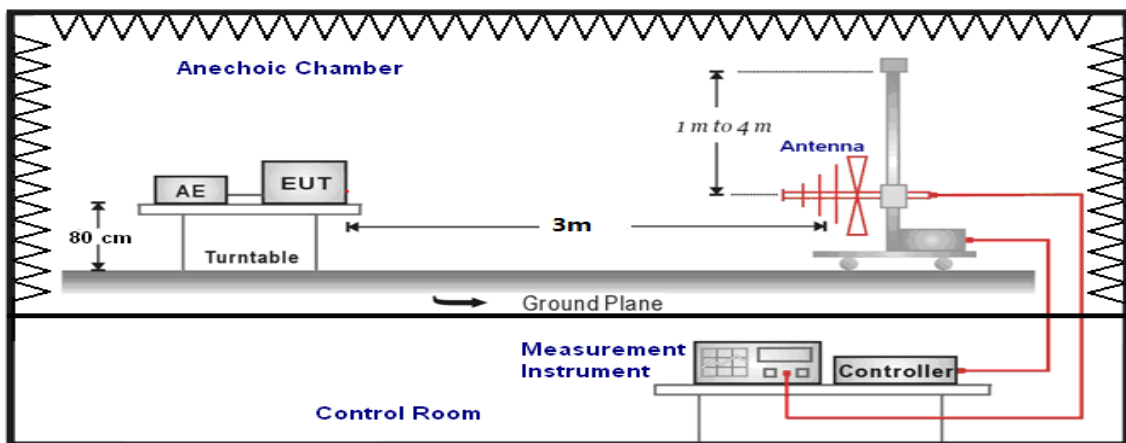
Frequency range (MHz)	Field strength limit ($\mu\text{V/m}$)		
	Quasi-peak	Average	Peak
30-88	100		
88-216	150		
216-960	200		
960-1000	500		
>1000		500	5000

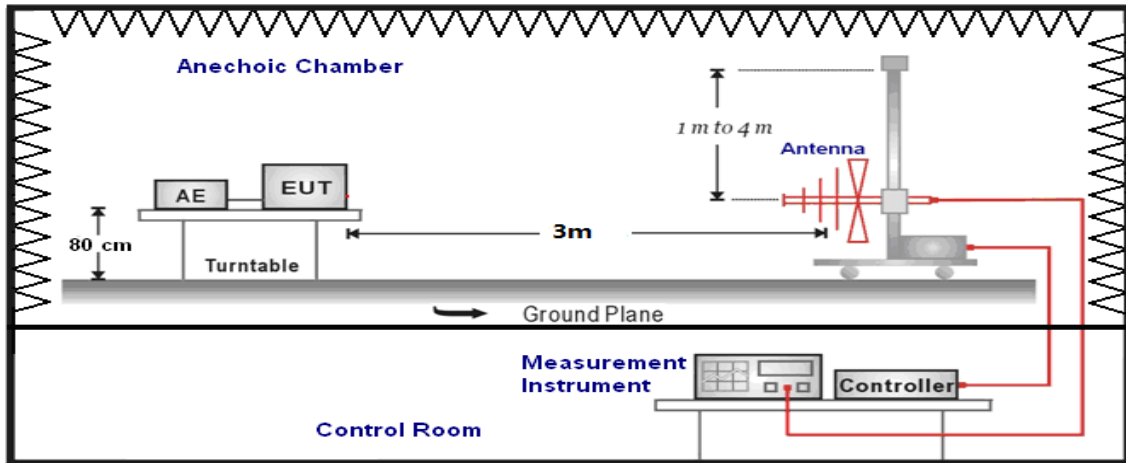
*Note: The original limit is defined at 10m test distance. This limit is calculated according to CISPR requirements.

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-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:

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

Where

G_A : Antenna factor of receive antenna

G_{PL} : Path Loss

P_{Mea} : Measurement result on receiver.

Result: Quasi-Peak (dB μ V/m) / Average (dB μ V/m) / Peak (dB μ V/m)

Note: the result contains vertical part and Horizontal part

Camera

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT09aa/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 (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			UT09aa/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 (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT09aa/Set.1	
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 (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			UT09aa/Set.1	
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.	

Scanner

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT09aa/Set.1	
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 (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			UT09aa/Set.1	
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.	

GSM receiver 850MHz

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT09aa/Set.1	
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 (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			UT09aa/Set.1	
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 (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT09aa/Set.1	
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 (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			UT09aa/Set.1	
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 17

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT09aa/Set.1	
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 (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			UT09aa/Set.1	
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.	

5G SA receiver Band n5

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT09aa/Set.1	
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 (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			UT09aa/Set.1	
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.	

Data Transfer

Frequency range (MHz)	Quasi-Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
		UT09aa/Set.2	
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 (dB μ V/m)	Peak Limit (dB μ V/m)	Result (dB μ V/m)	Conclusion
			UT09aa/Set.1	
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.	

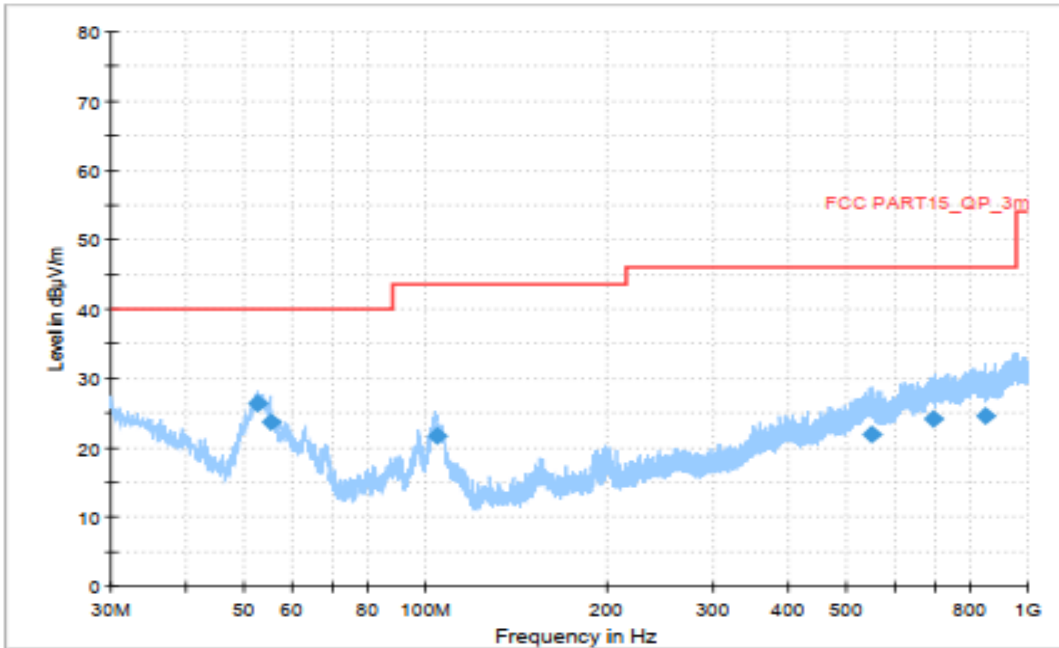


Figure A.1.1. Radiated Emission (Camera, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBµV)
54.444000	28.39	40.00	11.61	V	-22.57	50.96
65.017000	26.12	40.00	13.88	V	-23.86	49.98
86.211500	33.60	40.00	6.40	V	-26.80	60.40
125.545000	20.05	43.50	23.45	V	-23.79	43.84
182.096000	22.29	43.50	21.21	V	-25.01	47.3
327.208000	23.92	46.00	22.08	H	-21.63	45.55

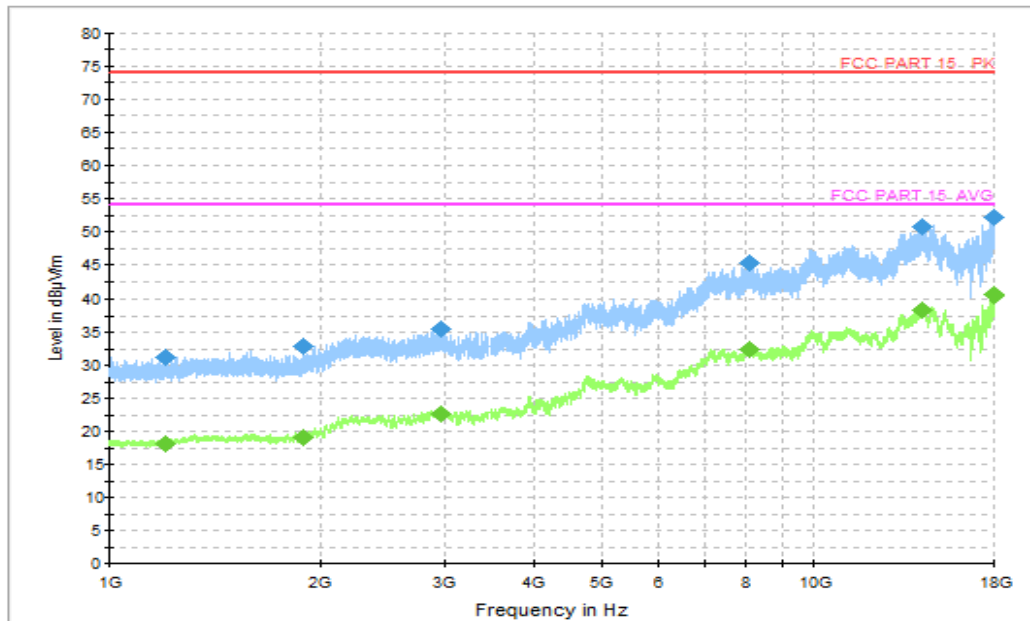


Figure A.1.2. Radiated Emission (Camera, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
1198.600000	31.16	74.00	42.84	V	-20.69	51.85
1882.200000	32.79	74.00	41.21	V	-18.91	51.7
2956.200000	35.55	74.00	38.45	H	-14.40	49.95
8091.200000	45.28	74.00	28.72	V	-0.73	46.01
14237.500000	50.62	74.00	23.38	V	7.08	43.54
17952.000000	52.20	74.00	21.80	H	12.66	39.54

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
1198.600000	18.00	54.00	36.00	V	-20.69	38.69
1882.200000	19.00	54.00	35.00	V	-18.91	37.91
2956.200000	22.70	54.00	31.30	H	-14.40	37.10
8091.200000	32.40	54.00	21.60	V	-0.73	33.13
14237.500000	38.43	54.00	15.57	V	7.08	31.35
17952.000000	40.45	54.00	13.55	H	12.66	27.79

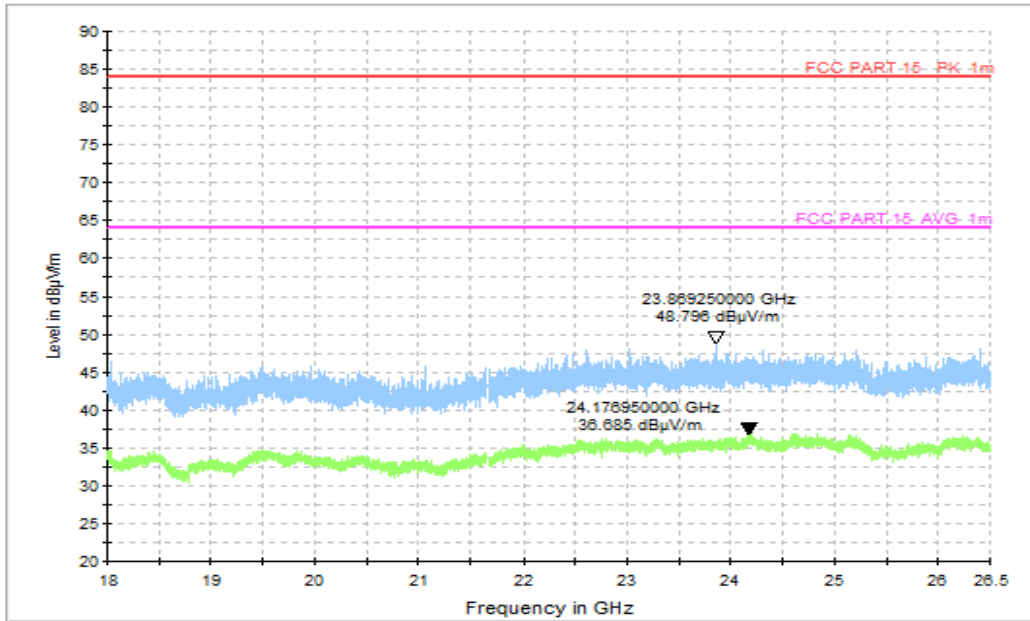


Figure A.1.3. Radiated Emission (Camera , 18GHz to 26.5GHz)

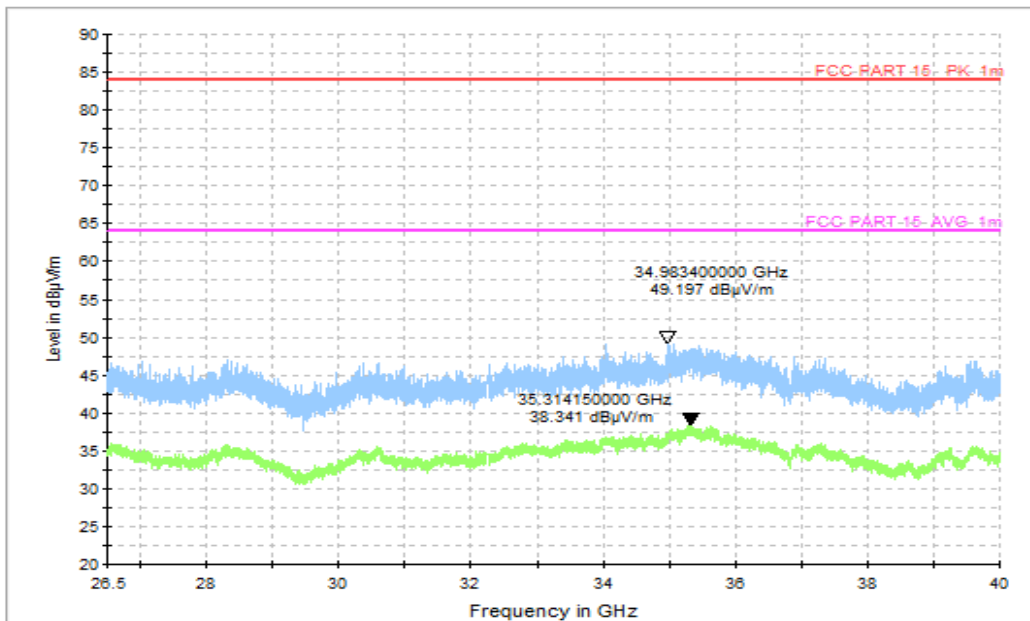


Figure A.1.4. Radiated Emission (Camera , 26.5GHz to 40GHz)

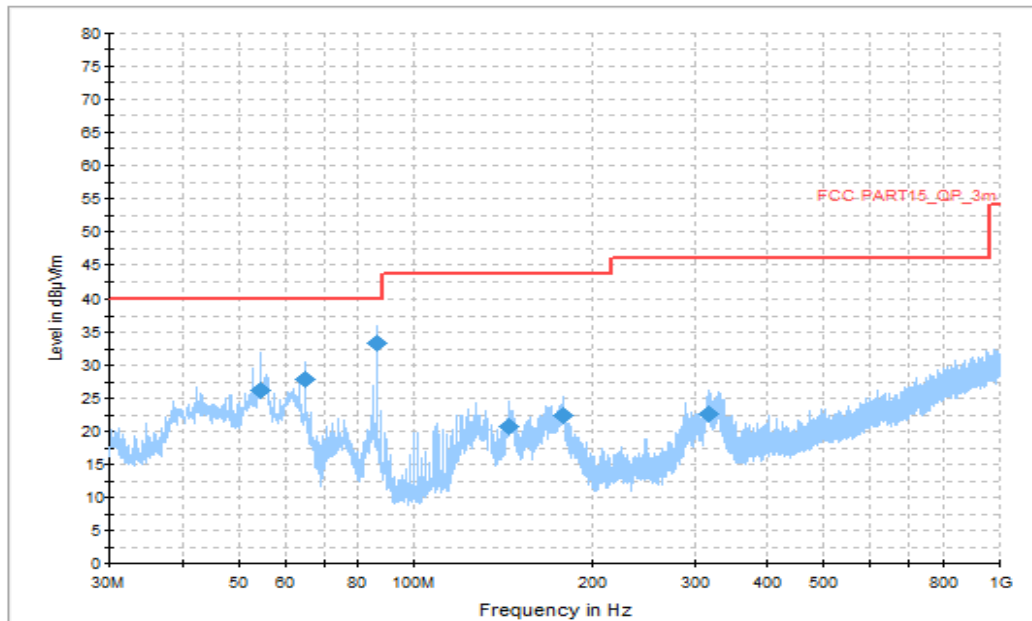


Figure A.1.5. Radiated Emission (Video Player, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBµV)
54.444000	26.18	40.00	13.82	V	-22.57	48.75
65.065500	27.81	40.00	12.19	V	-23.87	51.68
86.260000	33.34	40.00	6.66	V	-26.80	60.14
144.023500	20.81	43.50	22.69	V	-22.83	43.64
178.507000	22.36	43.50	21.14	V	-24.78	47.14
317.993000	22.73	46.00	23.27	H	-21.95	44.68

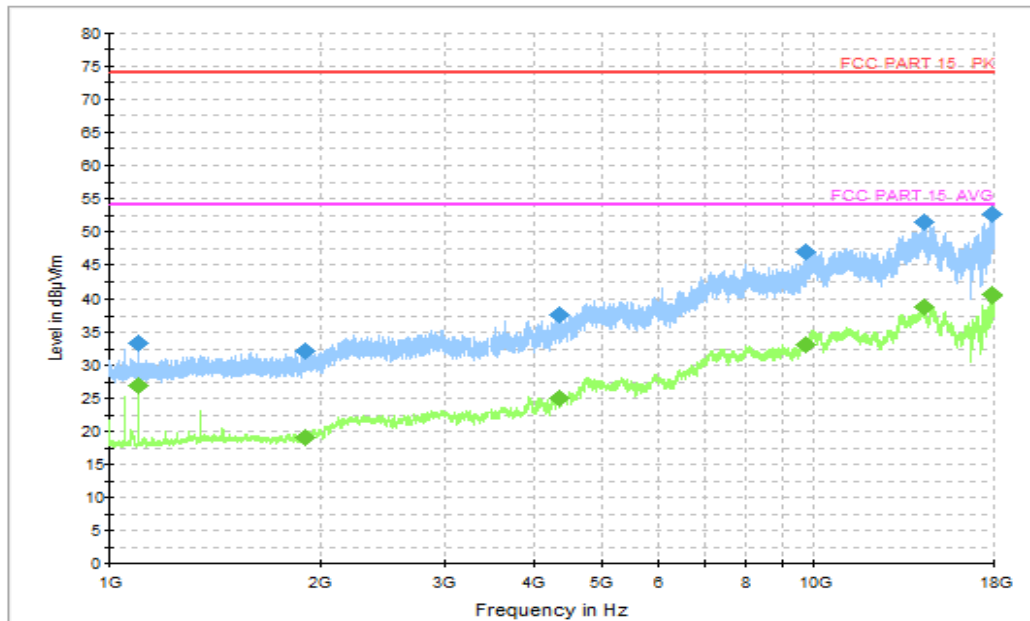


Figure A.1.6. Radiated Emission (Video Player , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
1100.000000	33.32	74.00	40.68	V	-20.80	54.12
1900.600000	32.07	74.00	41.93	V	-18.74	50.81
4348.800000	37.54	74.00	36.46	H	-10.29	47.83
9721.600000	46.82	74.00	27.18	V	0.23	46.59
14301.500000	51.50	74.00	22.50	H	6.71	44.79
17847.200000	52.61	74.00	21.39	H	12.12	40.49

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
1100.000000	26.98	54.00	27.02	V	-20.80	47.78
1900.600000	18.97	54.00	35.03	V	-18.74	37.71
4348.800000	24.93	54.00	29.07	H	-10.29	35.22
9721.600000	33.11	54.00	20.89	V	0.23	32.88
14301.500000	38.71	54.00	15.29	H	6.71	32
17847.200000	40.45	54.00	13.55	H	12.12	28.33

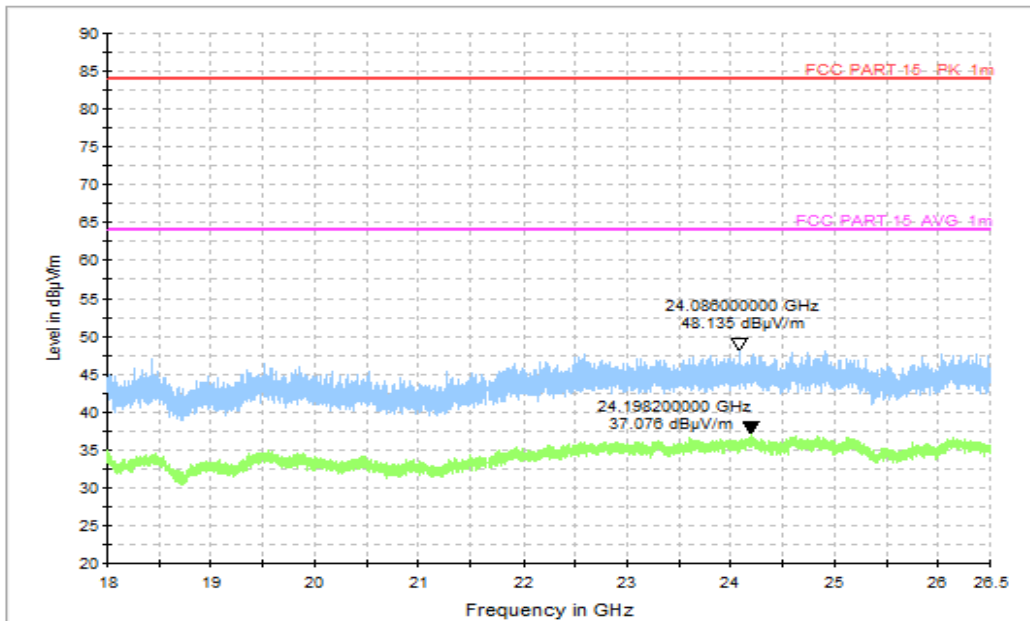


Figure A.1.7. Radiated Emission (Video Player , 18GHz to 26.5GHz)

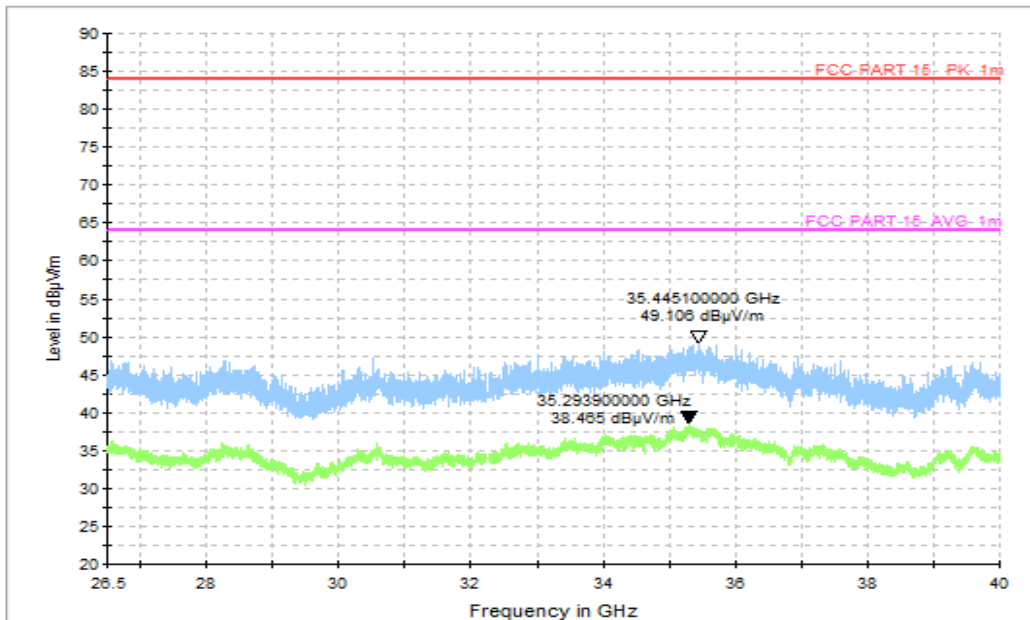


Figure A.1.8. Radiated Emission (Video Player , 26.5GHz to 40GHz)

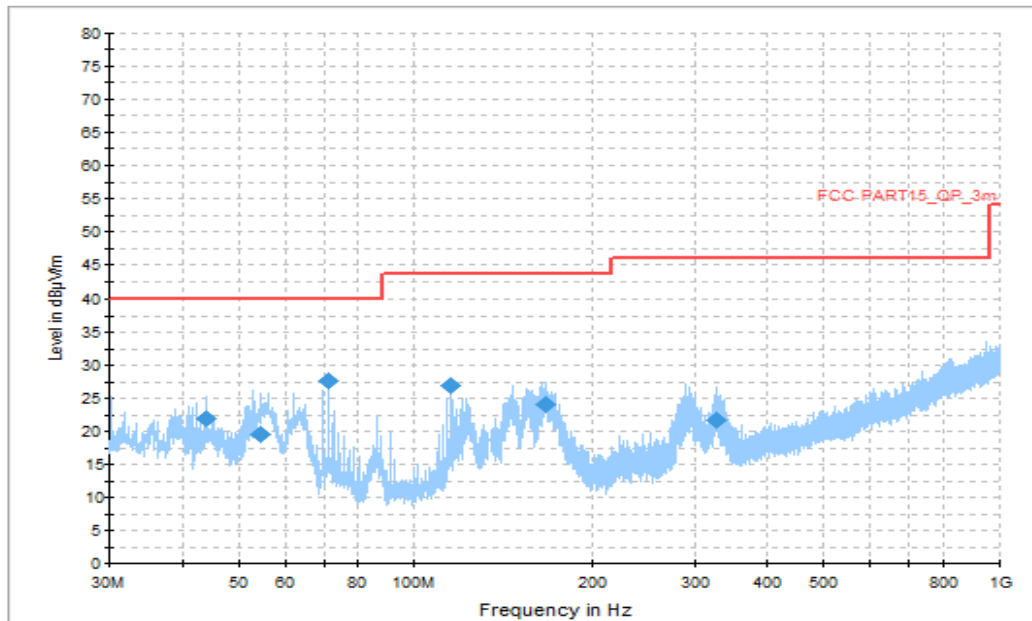


Figure A.1.9. Radiated Emission (Scanner, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBµV)
43.919500	21.82	40.00	18.18	V	-21.97	43.79
54.492500	19.53	40.00	20.47	V	-22.57	42.1
71.176500	27.56	40.00	12.44	V	-24.94	52.50
115.117500	26.88	43.50	16.62	V	-24.63	51.51
166.188000	24.02	43.50	19.48	V	-23.47	47.49
325.850000	21.74	46.00	24.26	H	-21.68	43.42

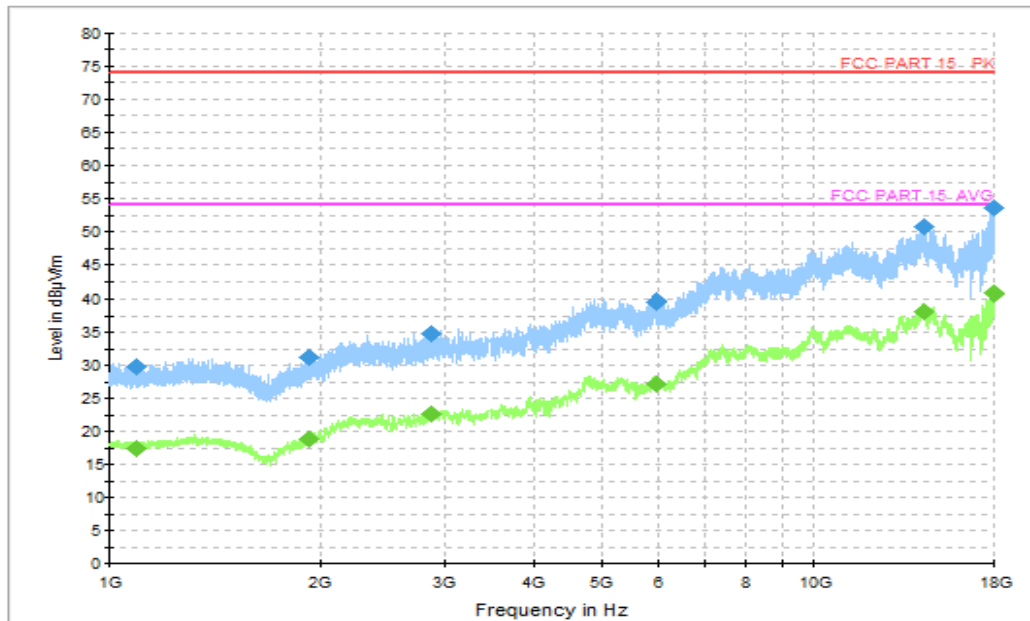


Figure A.1.10. Radiated Emission (Scanner , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
1093.800000	29.80	74.00	44.20	V	-20.80	50.60
1927.800000	31.10	74.00	42.90	V	-18.47	49.57
2869.000000	34.65	74.00	39.35	V	-14.78	49.43
5975.200000	39.60	74.00	34.40	V	-5.75	45.35
14316.000000	50.65	74.00	23.35	H	6.63	44.02
17980.000000	53.51	74.00	20.49	H	12.81	40.70

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
1093.800000	17.39	54.00	36.61	V	-20.80	38.19
1927.800000	18.76	54.00	35.24	V	-18.47	37.23
2869.000000	22.71	54.00	31.29	V	-14.78	37.49
5975.200000	27.03	54.00	26.97	V	-5.75	32.78
14316.000000	38.20	54.00	15.80	H	6.63	31.57
17980.000000	40.66	54.00	13.34	H	12.81	27.85

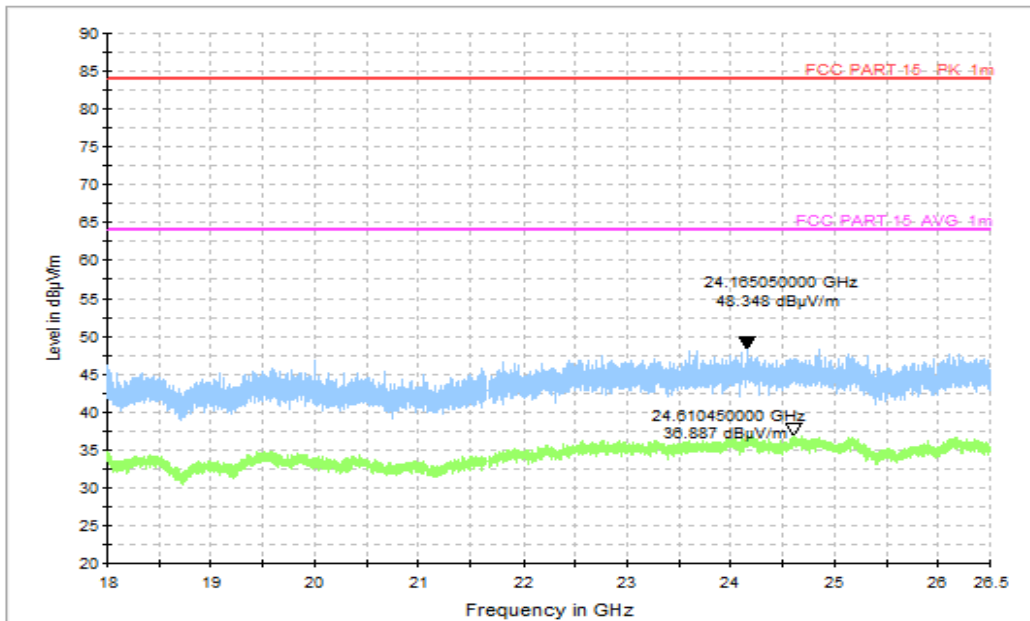


Figure A.1.11. Radiated Emission (Scanner, 18GHz to 26.5GHz)

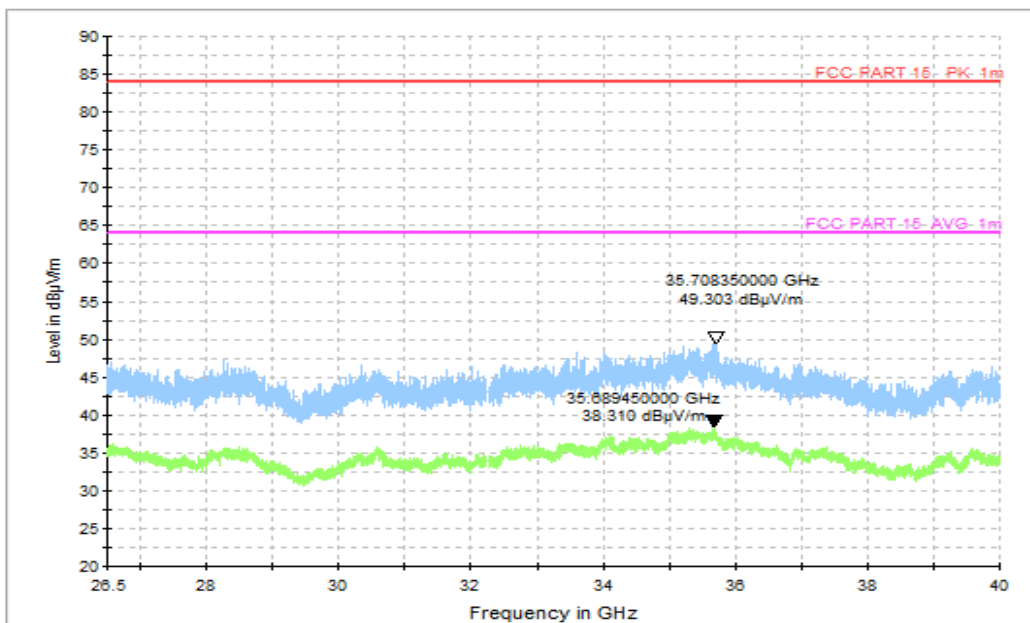


Figure A.1.12. Radiated Emission (Scanner , 26.5GHz to 40GHz)

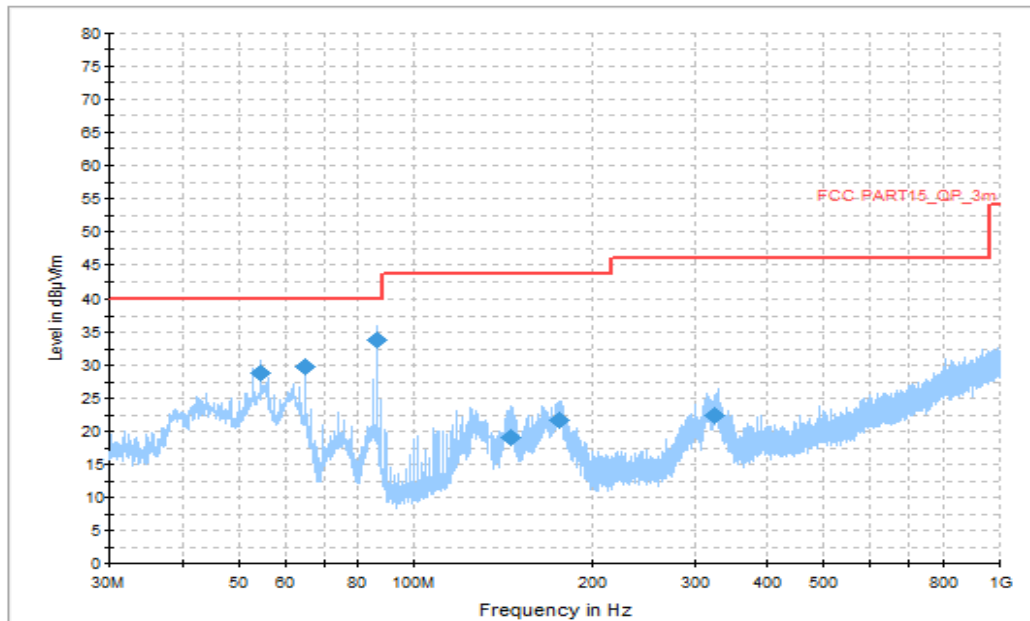


Figure A.1.13. Radiated Emission (GSM receiver 850MHz, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBµV)
54.492500	28.84	40.00	11.16	V	-22.57	51.41
65.114000	29.83	40.00	10.17	H	-23.87	53.7
86.308500	33.81	40.00	6.19	V	-26.80	60.61
145.672500	19.16	43.50	24.34	V	-22.82	41.98
175.791000	21.74	43.50	21.76	V	-24.50	46.24
324.686000	22.44	46.00	23.56	H	-21.72	44.16

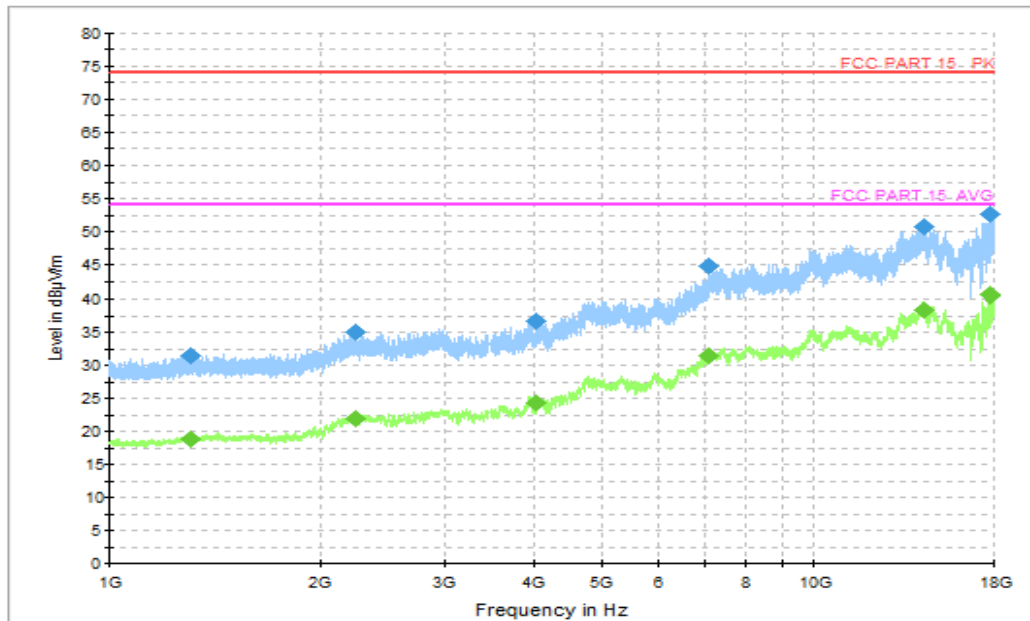


Figure A.1.14. Radiated Emission (GSM receiver 850MHz , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
1307.800000	31.43	74.00	42.57	H	-19.97	51.30
2243.800000	34.98	74.00	39.02	V	-16.08	50.00
4023.200000	36.58	74.00	37.42	V	-11.38	48.20
7078.400000	44.72	74.00	29.28	H	-1.10	46.90
14316.000000	50.60	74.00	23.40	V	6.63	46.40
17793.200000	52.62	74.00	21.38	H	11.85	43.70

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
1307.800000	18.86	54.00	35.14	H	-19.97	38.30
2243.800000	22.00	54.00	32.00	V	-16.08	37.60
4023.200000	24.25	54.00	29.75	V	-11.38	34.90
7078.400000	31.38	54.00	22.62	H	-1.10	33.10
14316.000000	38.40	54.00	15.60	V	6.63	32.60
17793.200000	40.56	54.00	13.44	H	11.85	30.90

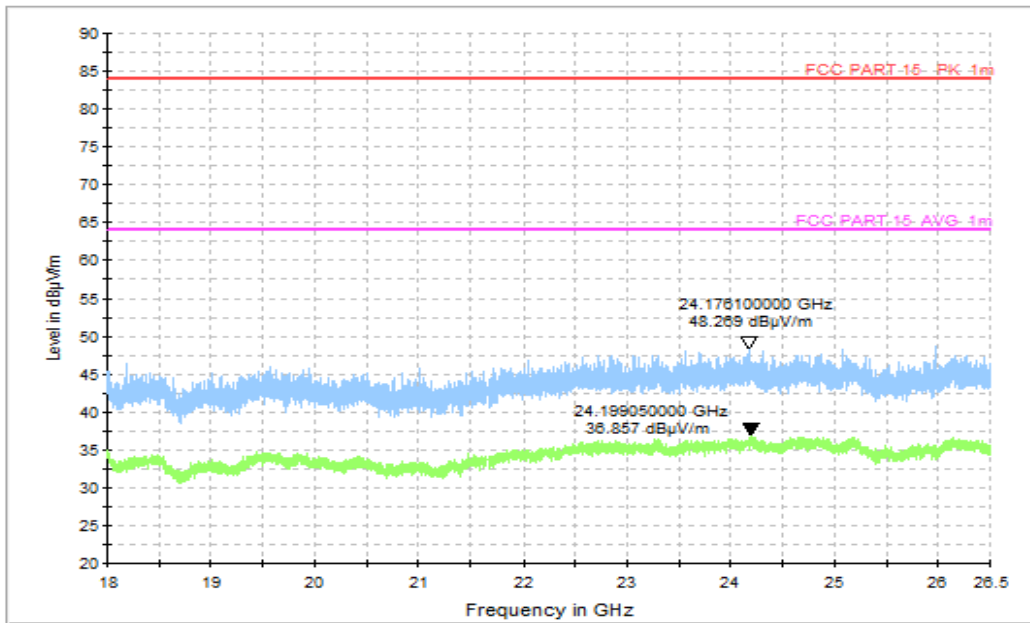


Figure A.1.15. Radiated Emission (GSM receiver 850MHz, 18GHz to 26.5GHz)

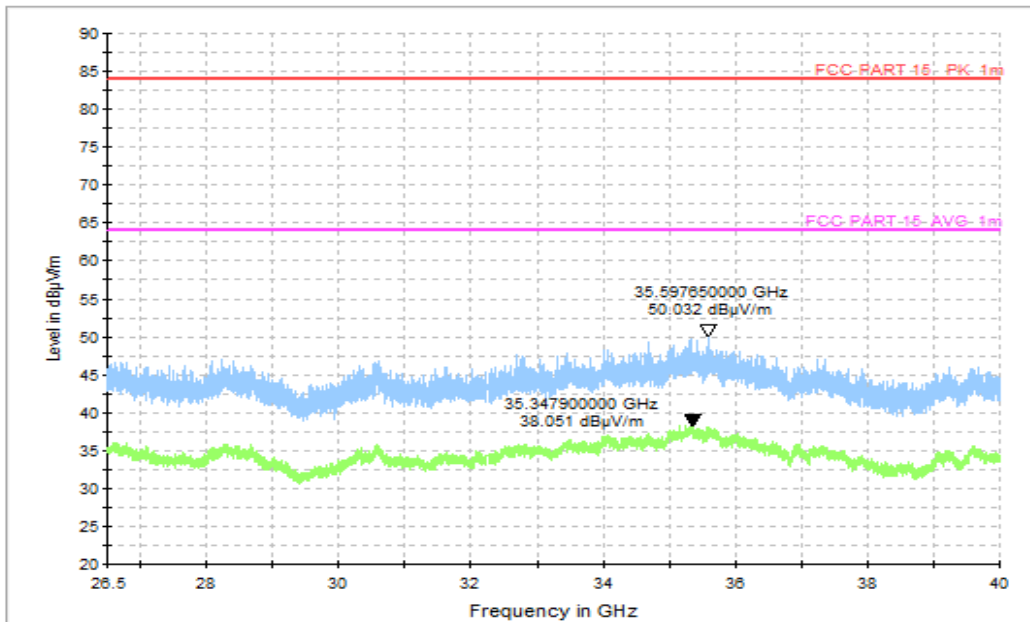


Figure A.1.16. Radiated Emission (GSM receiver 850MHz , 26.5GHz to 40GHz)

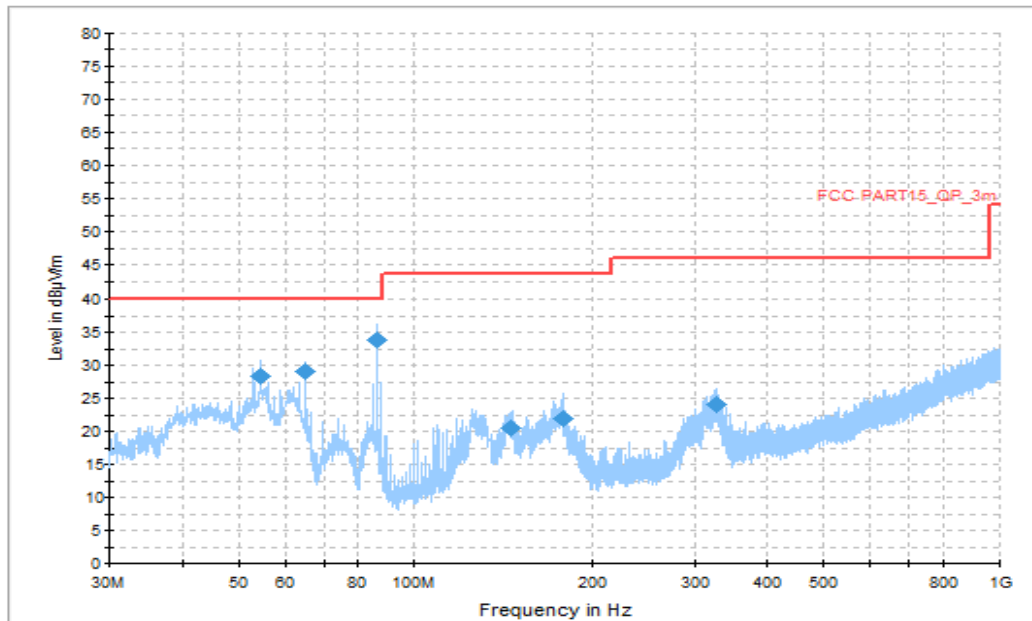


Figure A.1.17. Radiated Emission (LTE receiver Band 5, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBµV)
54.492500	28.29	40.00	11.71	V	-22.57	50.86
65.114000	29.07	40.00	10.93	V	-23.87	52.94
86.308500	33.88	40.00	6.12	V	-26.80	60.68
145.042000	20.50	43.50	23.00	V	-22.82	43.32
177.973500	21.96	43.50	21.54	V	-24.72	46.68
328.032500	24.10	46.00	21.90	H	-21.61	45.71

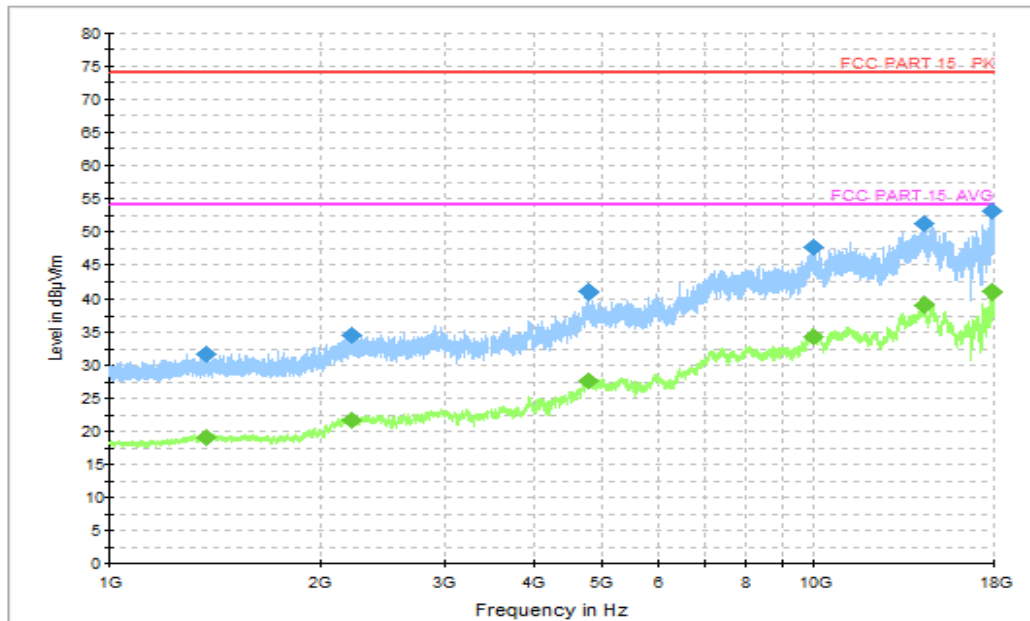


Figure A.1.18. Radiated Emission (LTE receiver Band 5, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
1375.400000	31.65	74.00	42.35	H	-19.84	51.49
2209.600000	34.61	74.00	39.39	V	-15.96	50.57
4774.400000	40.99	74.00	33.01	V	-6.85	47.84
10001.600000	47.61	74.00	26.39	H	1.83	45.78
14293.500000	51.20	74.00	22.80	H	6.75	44.45
17851.600000	53.08	74.00	20.92	H	12.15	40.93

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
1375.400000	18.98	54.00	35.02	H	-19.84	38.82
2209.600000	21.64	54.00	32.36	V	-15.96	37.6
4774.400000	27.53	54.00	26.47	V	-6.85	34.38
10001.600000	34.34	54.00	19.66	H	1.83	32.51
14293.500000	38.98	54.00	15.02	H	6.75	32.23
17851.600000	41.00	54.00	13.00	H	12.15	28.85

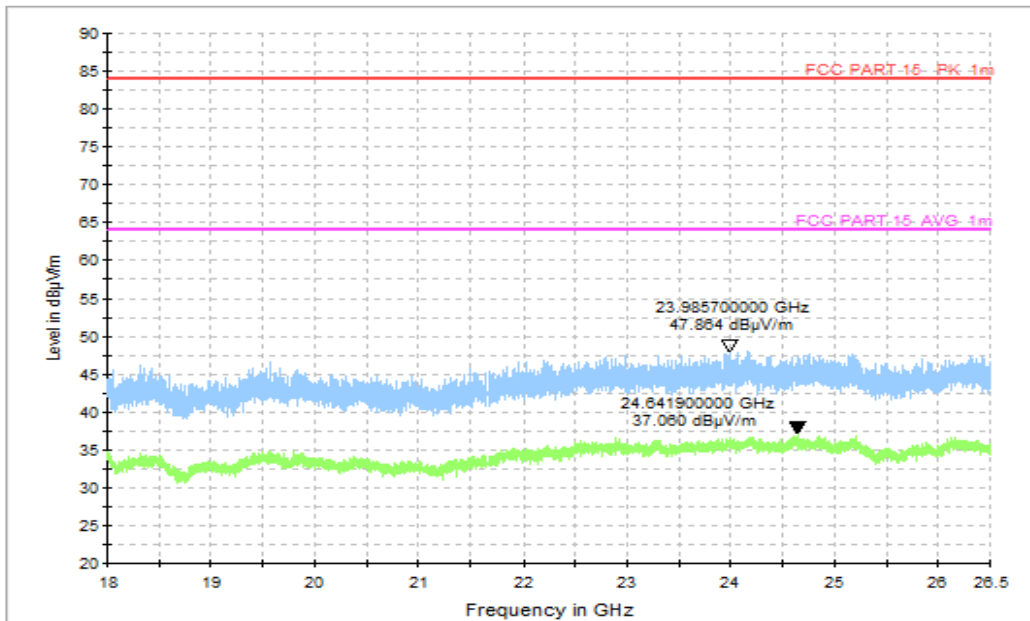


Figure A.1.19. Radiated Emission ((LTE receiver Band 5 , 18GHz to 26.5GHz)

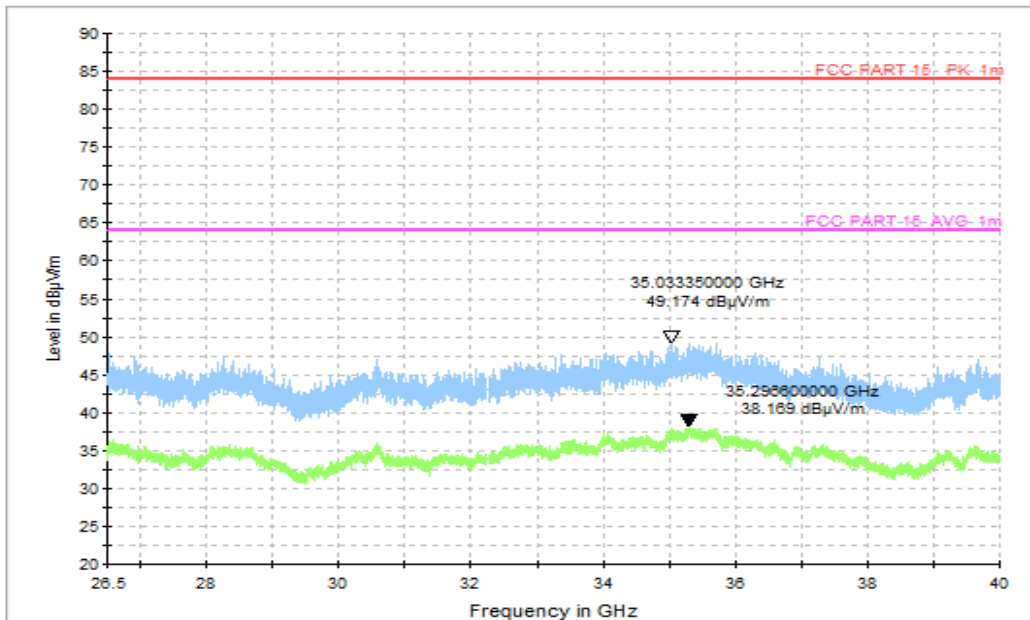


Figure A.1.20. Radiated Emission ((LTE receiver Band 5 , 26.5GHz to 40GHz)

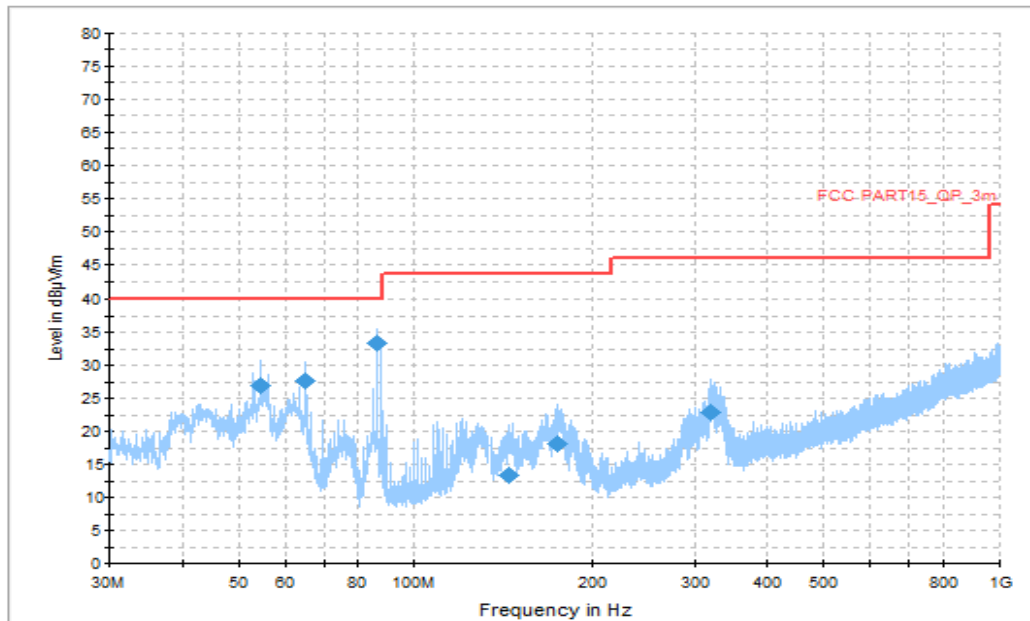


Figure A.1.21. Radiated Emission (LTE receiver Band 17, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBµV)
54.541000	26.89	40.00	13.11	V	-22.57	49.46
65.114000	27.50	40.00	12.50	V	-23.87	51.37
86.308500	33.42	40.00	6.58	H	-26.80	60.22
143.926500	13.27	43.50	30.23	H	-22.83	36.10
175.015000	18.07	43.50	25.43	V	-24.42	42.49
320.321000	22.97	46.00	23.04	H	-21.86	44.83

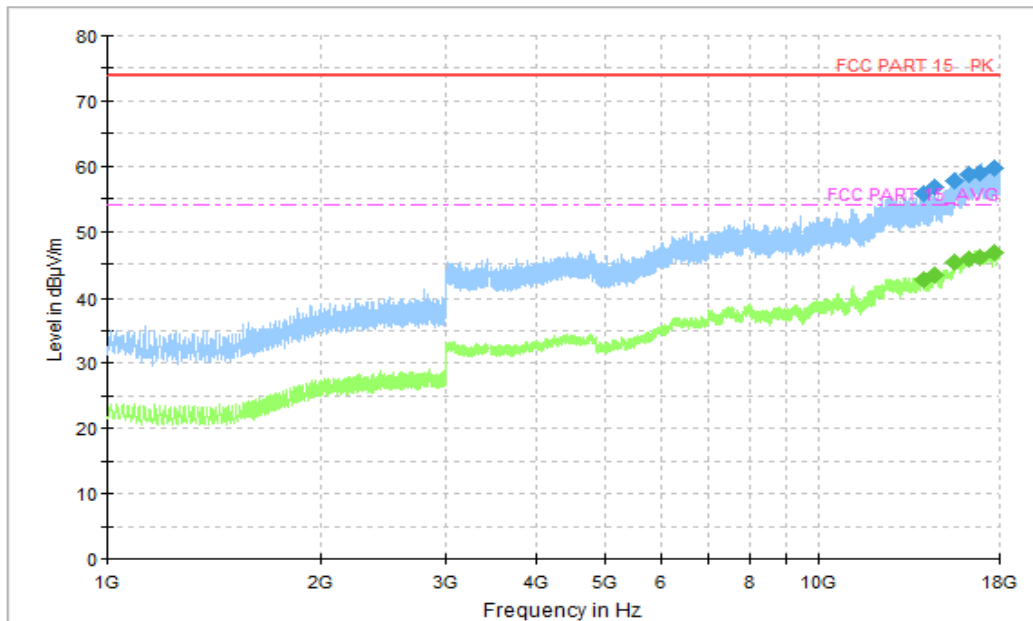


Figure A.1.22. Radiated Emission (LTE receiver Band 17, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
1501.600000	31.78	74.00	42.22	H	-19.97	51.75
2147.600000	33.97	74.00	40.03	H	-16.45	50.42
3899.200000	37.46	74.00	36.54	V	-11.22	48.68
7113.600000	44.34	74.00	29.66	V	-0.80	45.14
14257.000000	52.10	74.00	21.90	V	6.96	45.14
17870.400000	53.23	74.00	20.77	H	12.24	40.99

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
1501.600000	18.60	54.00	35.40	H	-19.97	38.57
2147.600000	21.29	54.00	32.71	H	-16.45	37.74
3899.200000	23.76	54.00	30.24	V	-11.22	34.98
7113.600000	31.36	54.00	22.64	V	-0.80	32.16
14257.000000	39.03	54.00	14.97	V	6.96	32.07
17870.400000	40.40	54.00	13.60	H	12.24	28.16

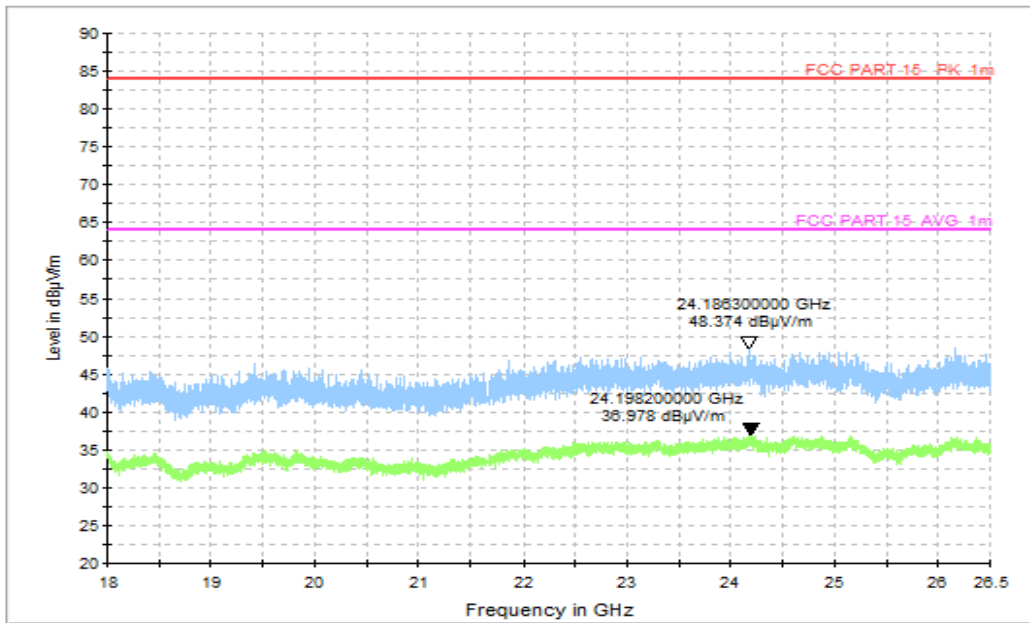


Figure A.1.23. Radiated Emission ((LTE receiver Band 17 , 18GHz to 26.5GHz)

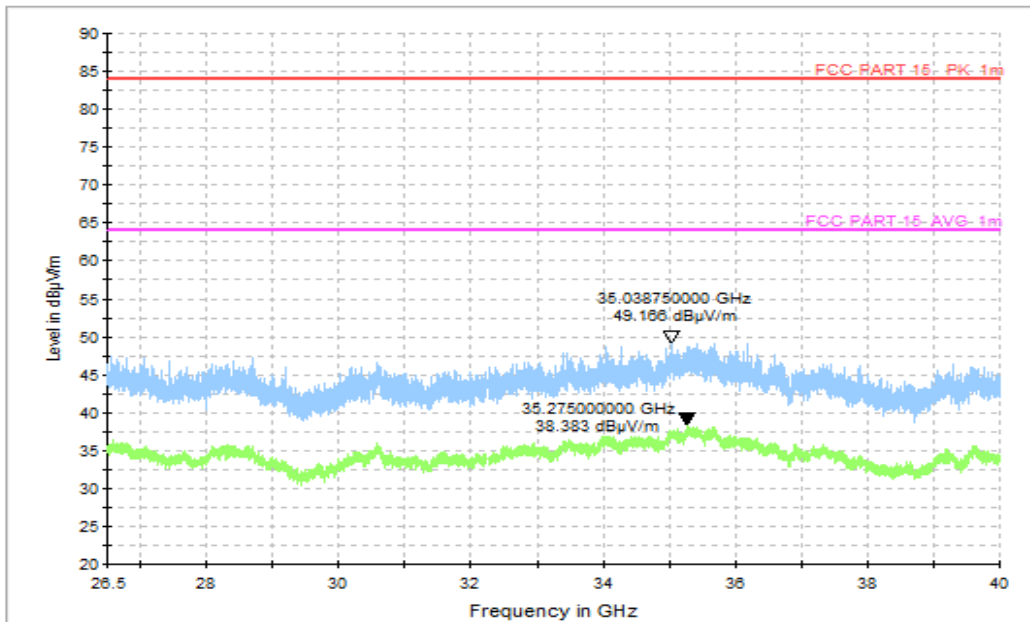


Figure A.1.24. Radiated Emission ((LTE receiver Band 17, 26.5GHz to 40GHz)

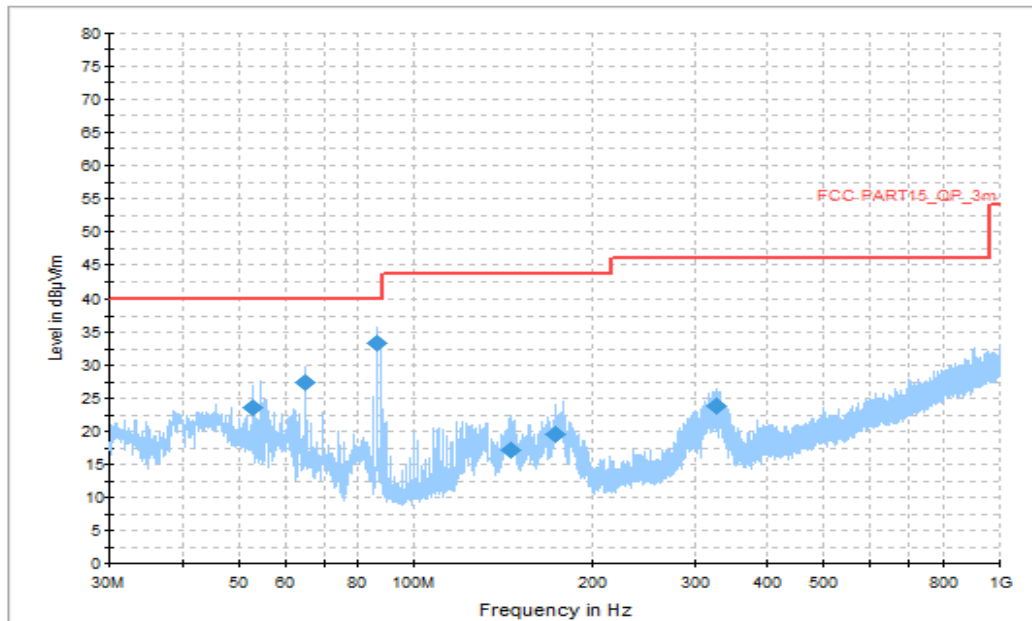


Figure A.1.25. Radiated Emission (5G SA receiver Band n5, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P _{Mea} (dBµV)
52.989000	23.68	40.00	16.32	V	-22.45	46.13
65.114000	27.29	40.00	12.71	V	-23.87	51.16
86.308500	33.37	40.00	6.63	V	-26.80	60.17
145.575500	17.07	43.50	26.43	V	-22.82	39.89
173.026500	19.42	43.50	24.08	V	-24.21	43.63
327.159500	23.86	46.00	22.14	H	-21.64	45.50

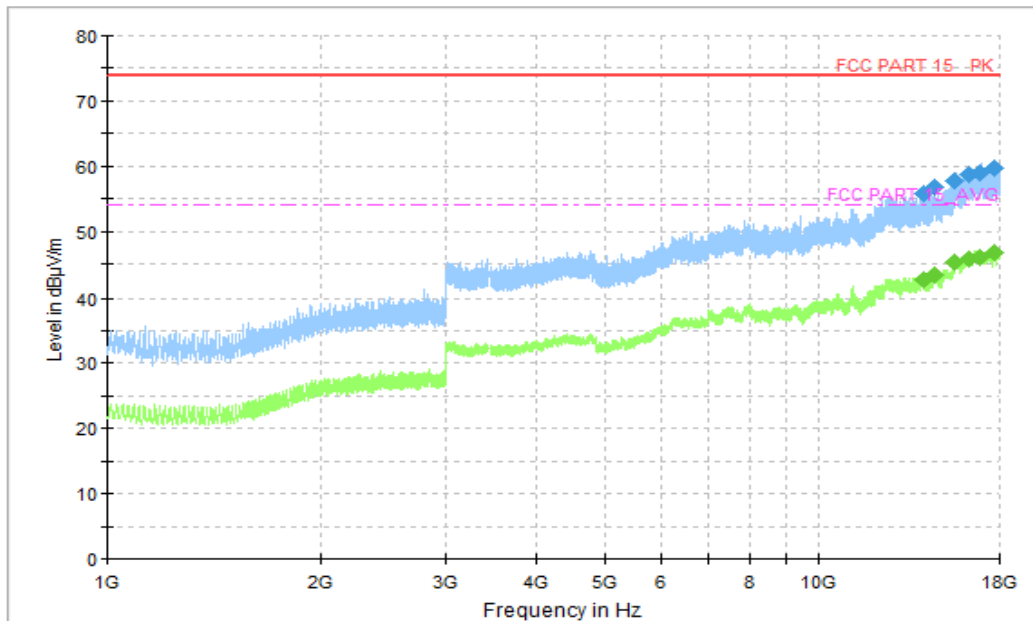


Figure A.1.26. Radiated Emission (5G SA receiver Band n5, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
1247.800000	31.20	74.00	42.80	V	-20.36	51.56
1840.600000	31.54	74.00	42.46	V	-19.24	50.78
2866.600000	35.98	74.00	38.02	H	-14.79	50.77
7707.200000	44.70	74.00	29.30	V	-1.21	45.91
14252.000000	51.13	74.00	22.87	V	6.99	44.14
17980.800000	52.98	74.00	21.02	H	12.81	40.17

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
1247.800000	18.65	54.00	35.35	V	-20.36	39.01
1840.600000	18.93	54.00	35.07	V	-19.24	38.17
2866.600000	22.70	54.00	31.30	H	-14.79	37.49
7707.200000	31.09	54.00	22.91	V	-1.21	32.30
14252.000000	38.68	54.00	15.32	V	6.99	31.69
17980.800000	40.65	54.00	13.35	H	12.81	27.84

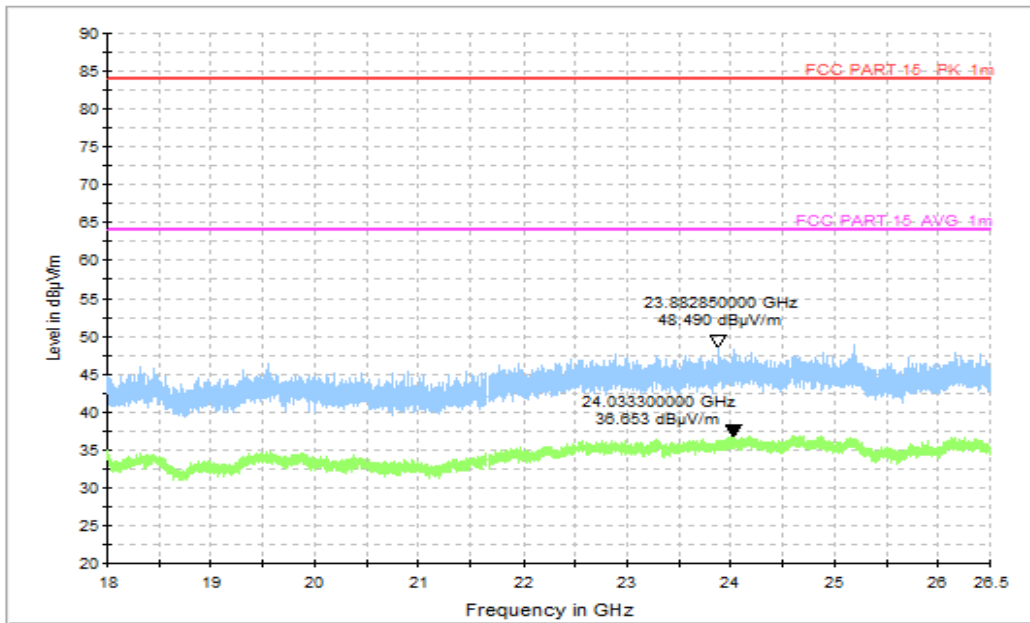


Figure A.1.27. Radiated Emission (5G SA receiver Band n5, 18GHz to 26.5GHz)

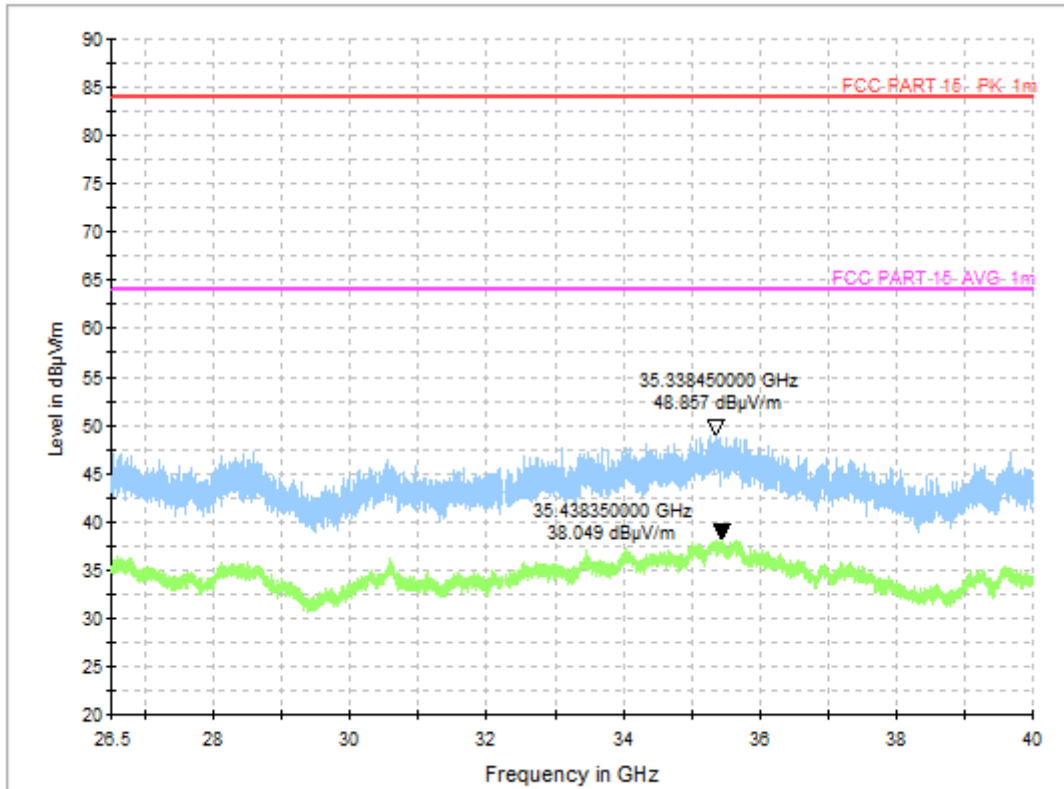


Figure A.1.28. Radiated Emission (5G SA receiver Band n5, 26.5GHz to 40GHz)

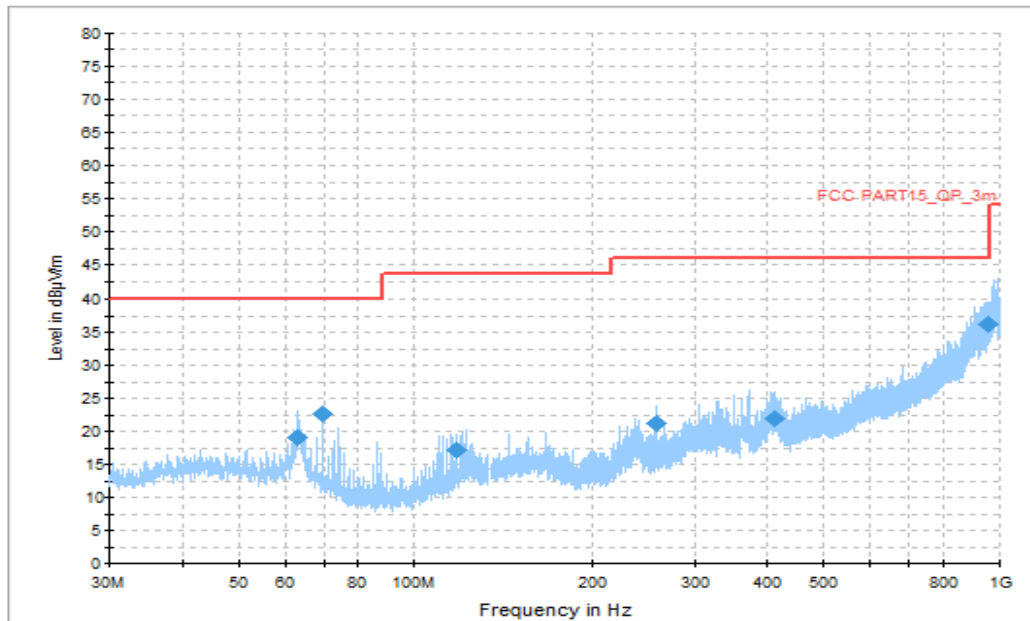


Figure A.1.29. Radiated Emission (Data Transfer: PC TO TF, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBµV)
62.980000	18.97	40.00	21.03	V	-23.52	42.49
69.673000	22.62	40.00	17.38	V	-24.64	47.26
118.173000	17.22	43.50	26.28	V	-24.32	41.54
257.222500	21.11	46.00	24.89	H	-23.75	44.86
410.094500	21.83	46.00	24.17	H	-18.87	40.7
957.029000	36.12	46.00	9.88	H	-8.57	44.69

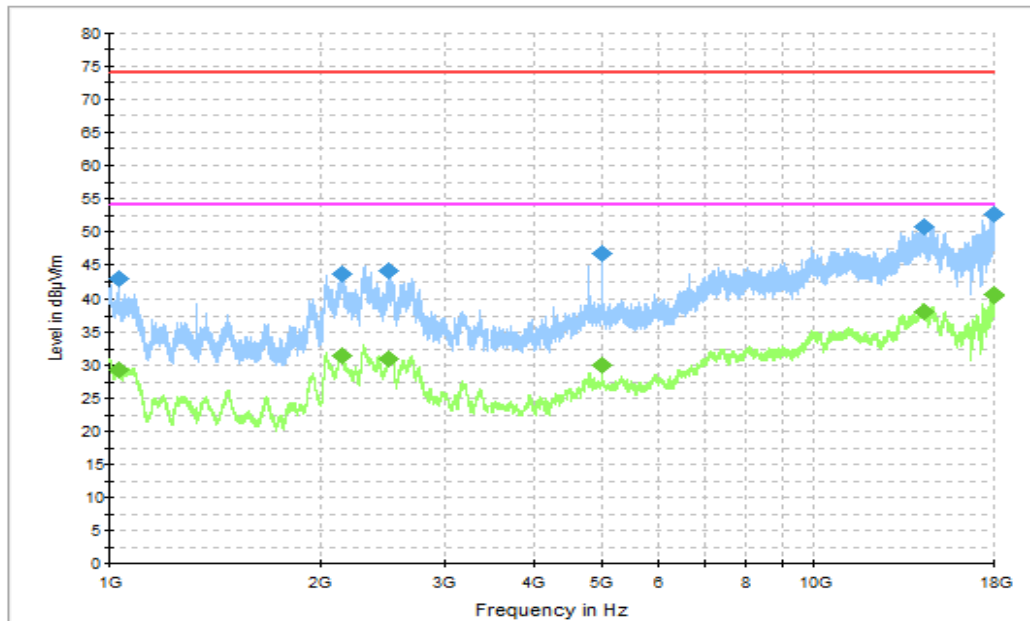


Figure A.1.30. Radiated Emission (Data Transfer: PC TO TF, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
1030.400000	42.75	74.00	31.25	H	-20.58	63.33
2136.800000	43.65	74.00	30.35	H	-16.54	60.19
2499.000000	44.04	74.00	29.96	H	-15.72	59.76
4980.800000	46.74	74.00	27.26	H	-7.27	54.01
14315.500000	50.62	74.00	23.38	V	6.63	43.99
17953.200000	52.68	74.00	21.32	H	12.67	40.01

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P _{Mea} (dBµV)
1030.400000	29.27	54.00	24.73	H	-20.58	49.85
2136.800000	31.49	54.00	22.51	H	-16.54	48.03
2499.000000	30.96	54.00	23.04	H	-15.72	46.68
4980.800000	29.98	54.00	24.02	H	-7.27	37.25
14315.500000	38.16	54.00	15.84	V	6.63	31.53
17953.200000	40.53	54.00	13.47	H	12.67	27.86

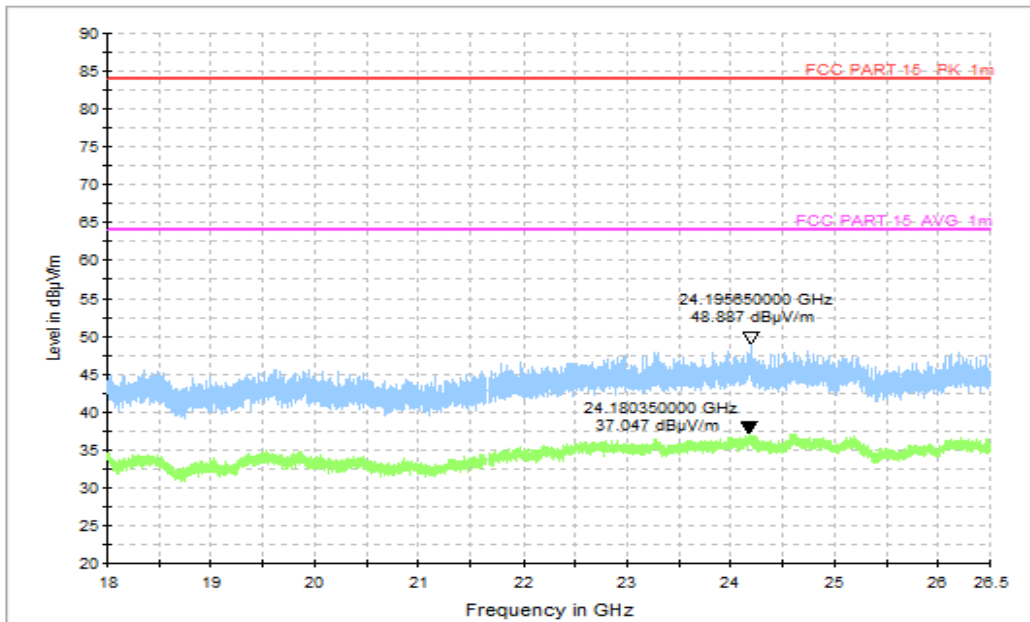


Figure A.1.31. Radiated Emission (Data Transfer: PC TO TF, 18GHz to 26.5GHz)

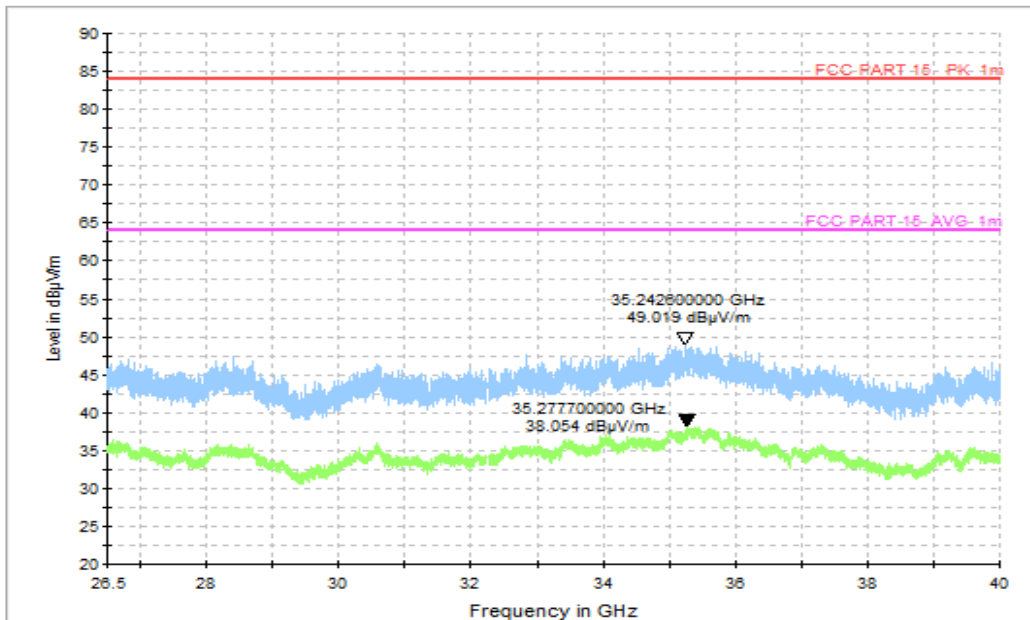


Figure A.1.32. Radiated Emission (Data Transfer: PC TO TF , 26.5GHz to 40GHz)

**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.

Scanner: The EUT is connected to a charger for charging and keeping on scanning.

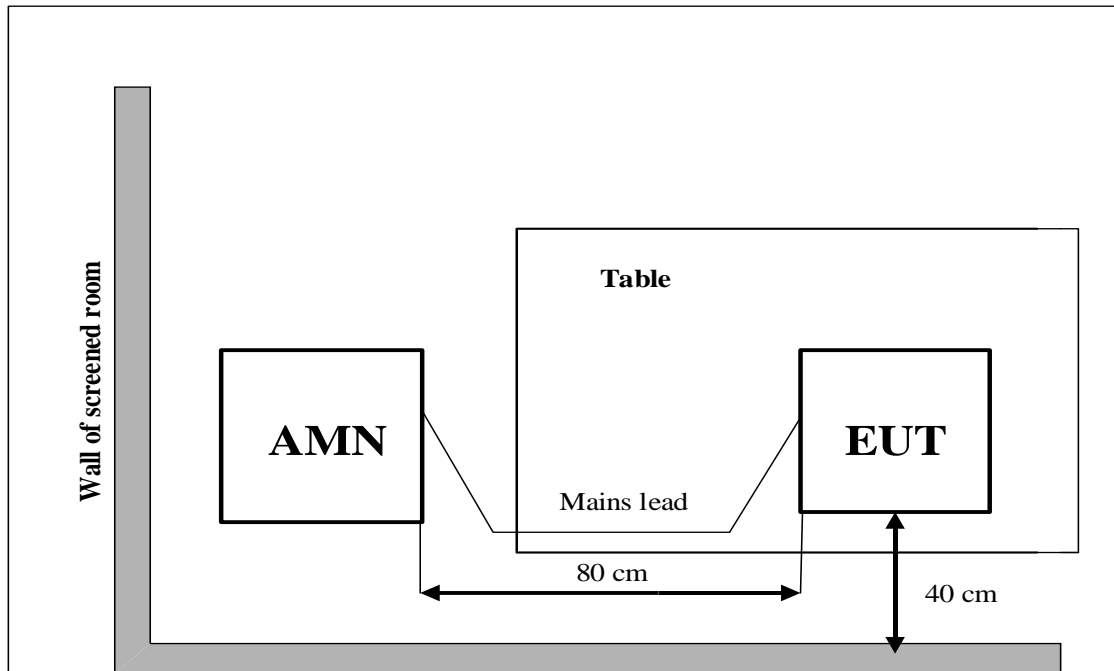
Data Transfer: The model of the PC is Lenovo ThinkPad T480, and the serial number of the PC is PF-13LW0C. The EUT is connected to a PC for transmitting data. The software is used to let the PC keep on copying data to EUT or TF Card, reading and erasing the data after copy action was finished.

A.2.3 Measurement Limit

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency

A.2.4 Test 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

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

Where

Corr: PathLoss + Voltage Division Factor

PMea: Measurement result on receiver.

Camera

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Average Limit (dB μ V)	Result (dB μ V)	Conclusion
			UT07aa/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.

Video Player

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
			UT07aa/Set.1	
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.

Scanner

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
			UT07aa/Set.1	
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.

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
			UT07aa/Set.2	
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.

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
			UT07aa/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.

Video Player

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
			UT07aa/Set.1	
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.

Scanner

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
			UT07aa/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.

Data Transfer

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
			UT07aa/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.

AC Input Port/ Voltage: 120V/60Hz

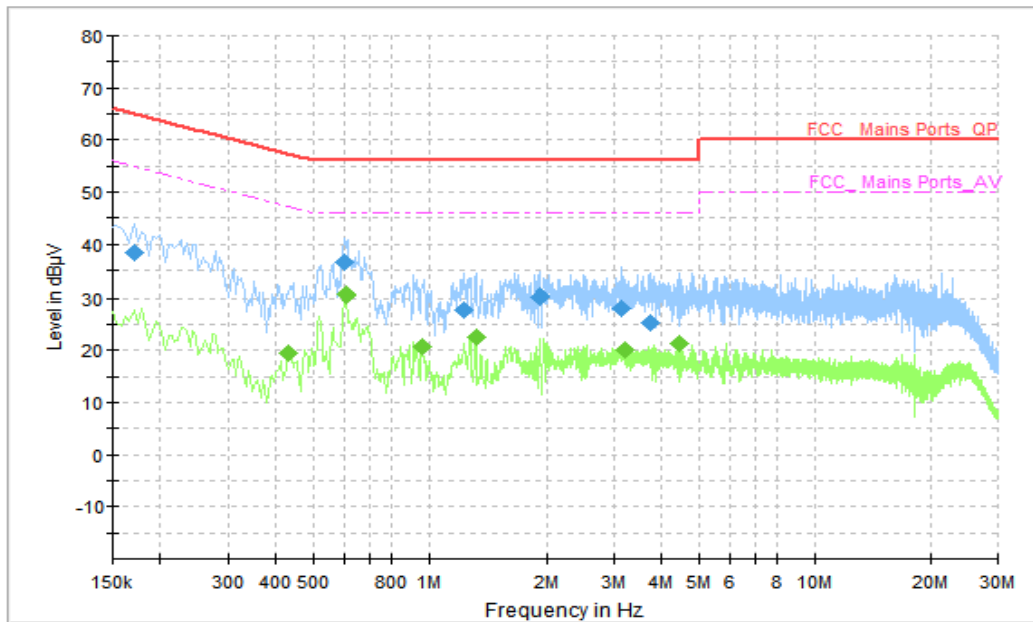


Figure A.2.1. Conducted Emission(Camera)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.170000	38.36	64.96	26.60	N	10	28.36
0.602000	36.43	56.00	19.57	L1	10	26.43
1.230000	27.73	56.00	28.27	N	10	17.73
1.914000	30.08	56.00	25.92	L1	10	20.08
3.138000	28.05	56.00	27.95	N	10	18.05
3.742000	25.21	56.00	30.79	N	10	15.21

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.430000	19.60	47.25	27.66	N	10	9.60
0.606000	30.37	46.00	15.63	N	10	20.37
0.958000	20.76	46.00	25.24	N	10	10.76
1.326000	22.38	46.00	23.62	N	10	12.38
3.222000	20.08	46.00	25.92	N	10	10.08
4.458000	21.42	46.00	24.58	N	10	11.42

AC Input Port/ Voltage: 120V/60Hz

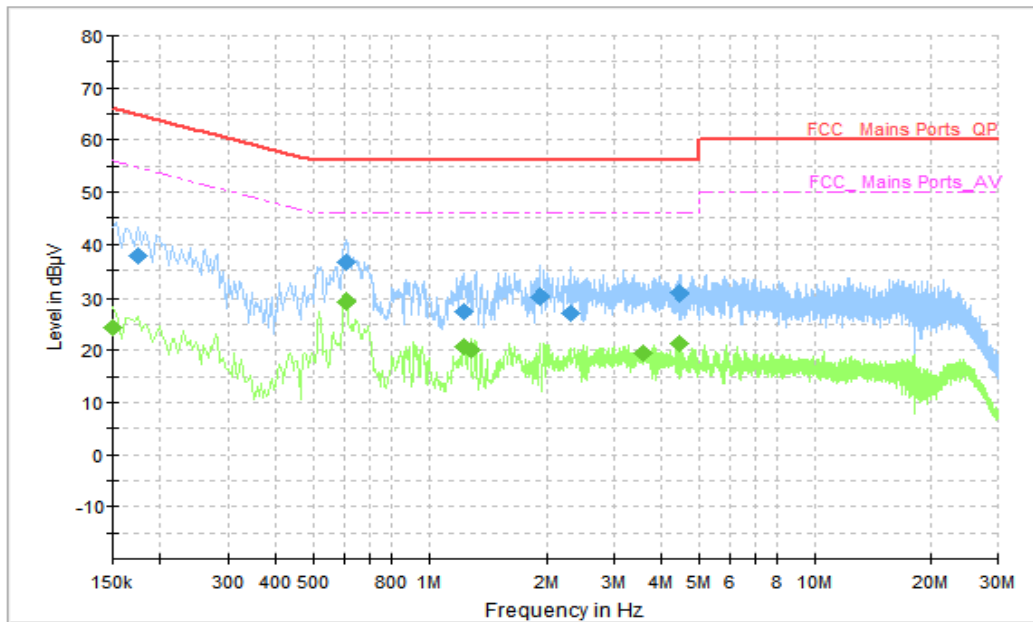


Figure A.2.2. Conducted Emission(Video Player)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.174000	37.93	64.77	26.84	L1	10	27.93
0.610000	36.45	56.00	19.55	N	10	26.45
1.230000	27.48	56.00	28.52	N	10	17.48
1.918000	30.04	56.00	25.96	N	10	20.04
2.322000	27.02	56.00	28.98	N	10	17.02
4.454000	30.91	56.00	25.09	N	10	20.91

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.150000	24.26	56.00	31.74	L1	10	14.26
0.610000	29.12	46.00	16.88	L1	10	19.12
1.230000	20.60	46.00	25.40	L1	10	10.60
1.282000	19.96	46.00	26.04	N	10	9.96
3.554000	19.37	46.00	26.63	N	10	9.37
4.458000	21.36	46.00	24.64	N	10	11.36

AC Input Port/ Voltage: 120V/60Hz

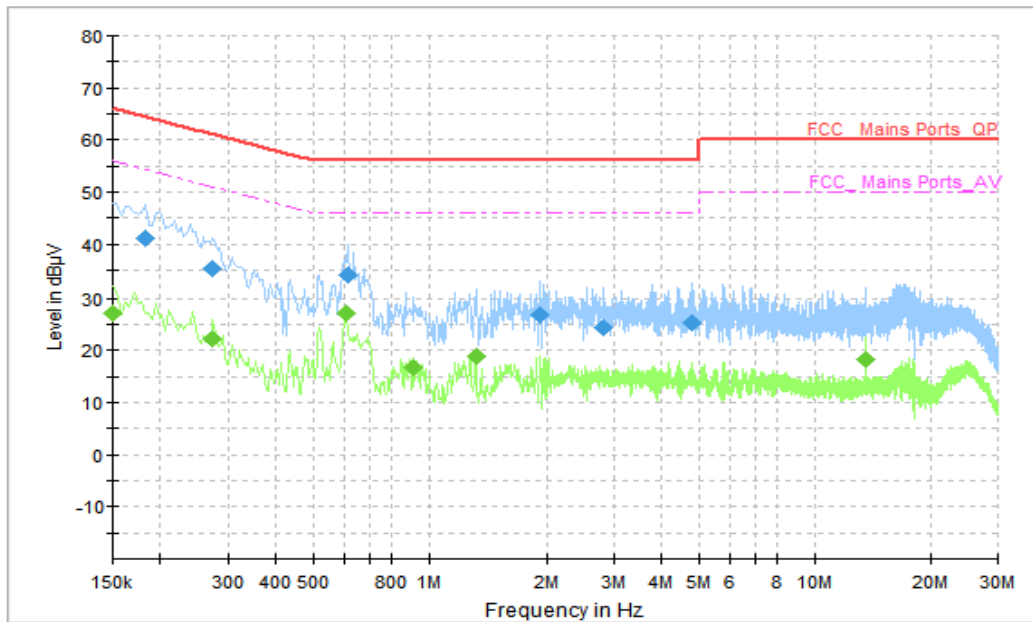


Figure A.2.3. Conducted Emission(Scanner)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.182000	41.08	64.39	23.31	N	10	31.08
0.274000	35.35	61.00	25.65	N	10	25.35
0.614000	34.02	56.00	21.98	L1	10	24.02
1.922000	26.94	56.00	29.06	N	10	16.94
2.826000	24.35	56.00	31.65	N	10	14.35
4.778000	25.36	56.00	30.64	N	10	15.36

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.150000	27.02	56.00	28.98	L1	10	17.02
0.274000	22.20	51.00	28.79	N	10	12.2
0.606000	27.14	46.00	18.86	N	10	17.14
0.910000	16.79	46.00	29.21	N	10	6.79
1.326000	18.96	46.00	27.04	N	10	8.96
13.562000	18.33	50.00	31.67	N	10	8.33

AC Input Port/ Voltage: 120V/60Hz

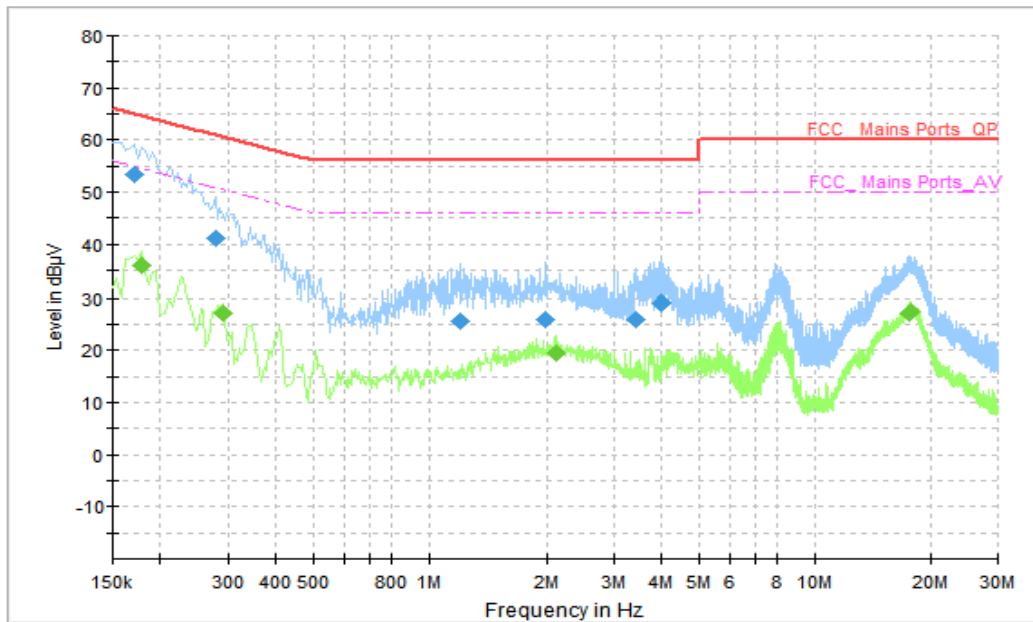


Figure A.2.4. Conducted Emission(Data Transfer)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.170000	53.31	64.96	11.65	L1	10	43.31
0.278000	41.23	60.88	19.65	L1	10	31.23
1.206000	25.70	56.00	30.30	N	10	15.70
1.994000	25.92	56.00	30.08	N	10	15.92
3.418000	25.96	56.00	30.04	N	10	15.96
3.966000	29.03	56.00	26.97	N	10	19.03

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.178000	35.98	54.58	18.60	N	10	25.98
0.290000	27.07	50.52	23.46	L1	10	17.07
2.118000	19.46	46.00	26.54	L1	10	9.46
2.126000	19.56	46.00	26.44	L1	10	9.56
17.606000	26.98	50.00	23.02	N	10	16.98
17.834000	27.36	50.00	22.64	L1	10	17.36

AC Input Port/ Voltage: 240V/60Hz

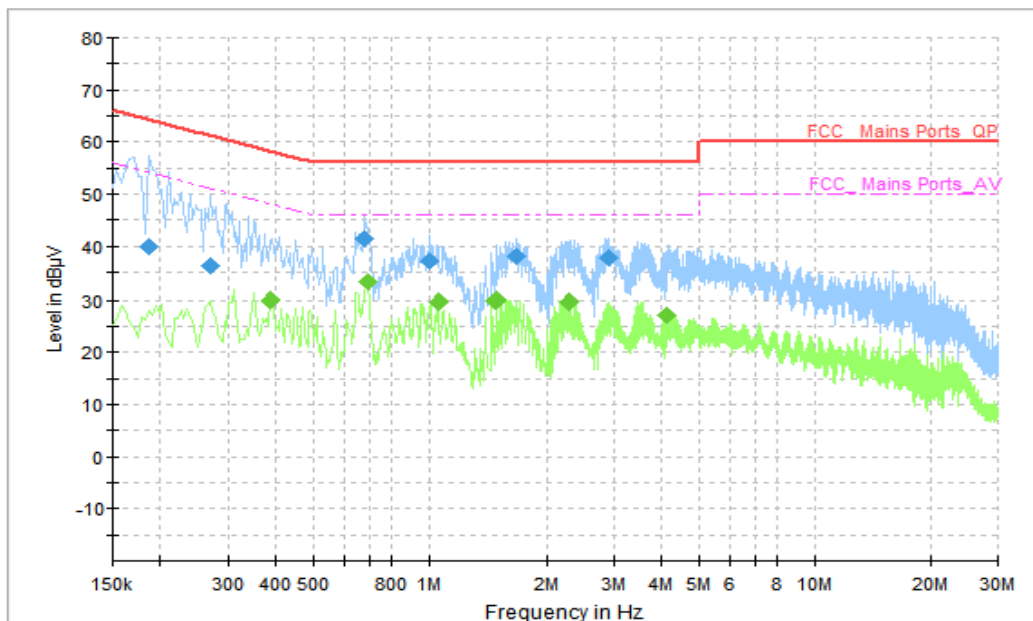


Figure A.2.5. Conducted Emission(Camera)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.186000	40.09	64.21	24.12	L1	10	30.09
0.270000	36.36	61.12	24.75	L1	10	26.36
0.682000	41.44	56.00	14.56	N	10	31.44
1.006000	37.17	56.00	18.83	N	10	27.17
1.666000	38.21	56.00	17.79	N	10	28.21
2.922000	37.93	56.00	18.07	N	10	27.93

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.386000	29.82	48.15	18.33	N	10	19.82
0.690000	33.24	46.00	12.76	N	10	23.24
1.054000	29.42	46.00	16.58	N	10	19.42
1.482000	29.90	46.00	16.10	N	10	19.90
2.282000	29.56	46.00	16.44	N	10	19.56
4.098000	27.19	46.00	18.81	N	10	17.19

AC Input Port/ Voltage: 240V/60Hz

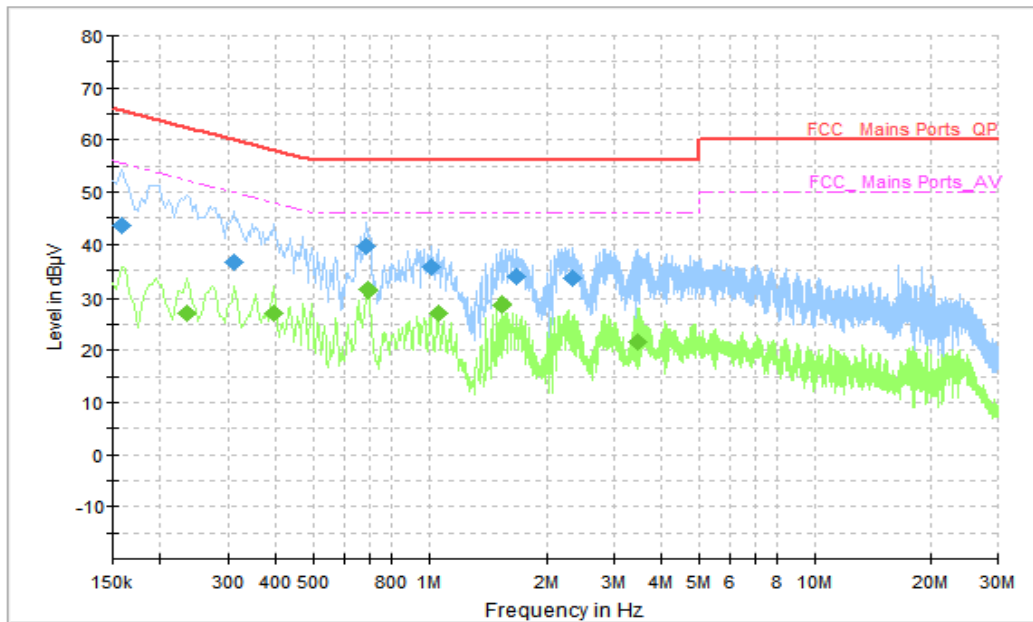


Figure A.2.6. Conducted Emission(Scanner)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	PMea (dBµV)
0.158000	43.51	65.57	22.06	N	10	33.51
0.310000	36.50	59.97	23.47	N	10	26.5
0.686000	39.75	56.00	16.25	N	10	29.75
1.010000	35.68	56.00	20.32	N	10	25.68
1.674000	33.97	56.00	22.03	N	10	23.97
2.334000	33.65	56.00	22.35	N	10	23.65

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	PMea (dBµV)
0.234000	27.12	52.31	25.19	N	10	17.12
0.394000	27.13	47.98	20.85	N	10	17.13
0.690000	31.36	46.00	14.64	N	10	21.36
1.054000	27.09	46.00	18.91	N	10	17.09
1.526000	28.58	46.00	17.42	N	10	18.58
3.470000	21.44	46.00	24.56	N	10	11.44

AC Input Port/ Voltage: 240V/60Hz

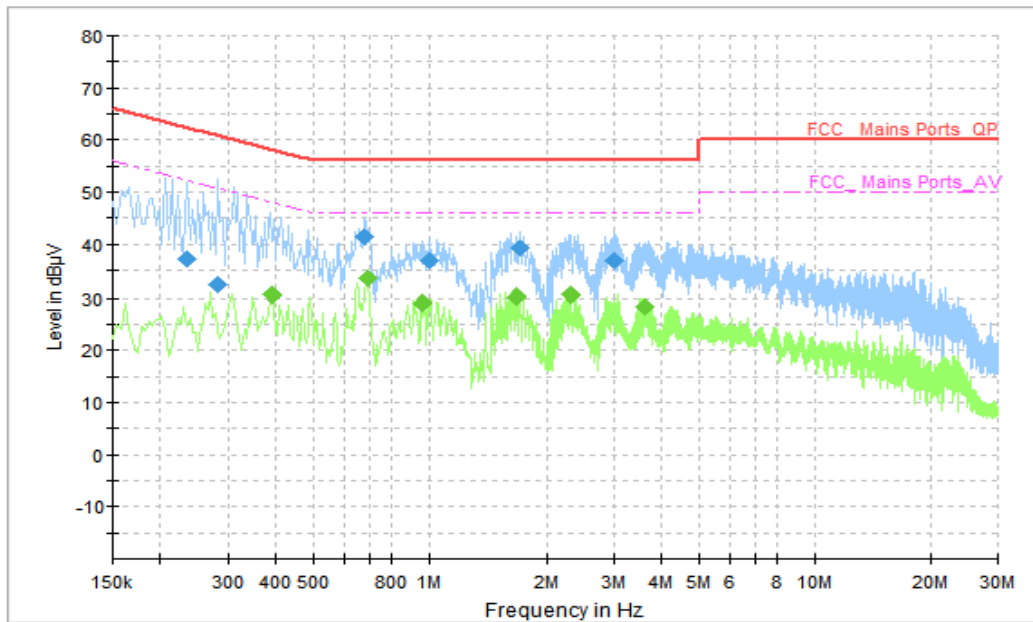


Figure A.2.7. Conducted Emission(Video Player)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	PMea (dBµV)
0.234000	37.21	62.31	25.10	L1	10	27.21
0.282000	32.36	60.76	28.40	L1	10	22.36
0.682000	41.35	56.00	14.65	N	10	31.35
1.006000	37.02	56.00	18.98	N	10	27.02
1.706000	39.36	56.00	16.64	N	10	29.36
3.018000	37.02	56.00	18.98	N	10	27.02

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.390000	30.33	48.06	17.73	N	10	20.33
0.690000	33.56	46.00	12.44	N	10	23.56
0.958000	28.98	46.00	17.02	N	10	18.98
1.662000	30.29	46.00	15.71	N	10	20.29
2.318000	30.57	46.00	15.43	N	10	20.57
3.610000	28.20	46.00	17.80	N	10	18.20

AC Input Port/ Voltage: 240V/60Hz

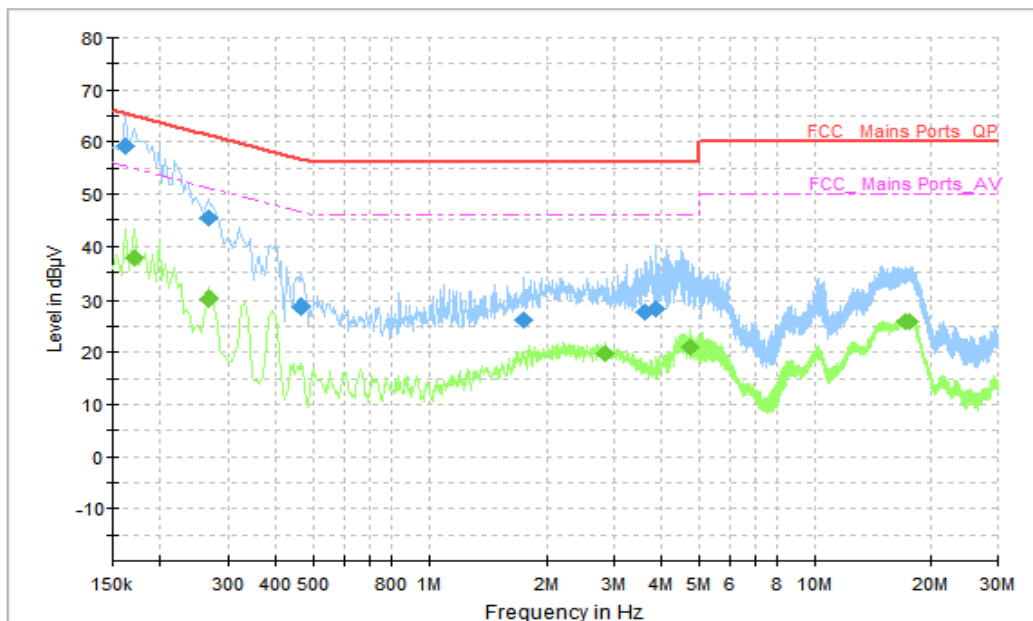


Figure A.2.8. Conducted Emission(Data Transfer)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.162000	59.32	65.36	6.05	N	10	49.32
0.266000	45.48	61.24	15.77	N	10	35.48
0.462000	28.67	56.66	27.99	N	10	18.67
1.754000	26.09	56.00	29.91	N	10	16.09
3.602000	27.65	56.00	28.35	L1	10	17.65
3.854000	28.41	56.00	27.59	N	10	18.41

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P _{Mea} (dBµV)
0.170000	37.85	54.96	17.11	L1	10	27.85
0.266000	30.15	51.24	21.09	N	10	20.15
2.838000	19.81	46.00	26.19	L1	10	9.81
4.762000	20.95	46.00	25.05	L1	10	10.95
17.254000	25.96	50.00	24.04	N	10	15.96
17.706000	25.81	50.00	24.19	N	10	15.81

END OF REPORT