TEST REPORT

No.I21N03655-EMC

for

TCL Communication Ltd.

Tablet PC

Model Name：9132S

With

Hardware Version: 03

Software Version: AM3S

FCC ID: 2ACCJB171

Issued Date: 2022-02-19

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
I21N03655-EMC	Rev.0	1st edition	2022-02-19

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	Tablet PC
Model Name	9132S
Applicant's name	TCL Communication Ltd.
Manufacturer's Name	TCL Communication Ltd.

1.2. Test Standards

FCC Part 15, Subpart B (10-1-2020 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: 2022-02-08 Testing End Date: 2022-02-16

1.6. Signature

Liang Yong
(Prepared this test report)

Zhang Yunzhuan
(Reviewed this test report)

Cao Junfei
(Approved this test report)

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2. CLIENT INFORMATION

2.1. Applicant Information

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2.2. Manufacturer Information

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Tel.	+86 755 3664 5759
Fax	0086-755-36612000-81722

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

3.1. About EUT

Description	Tablet PC
Model Name	9132S
FCC ID	2ACCJB171
Condition of EUT as received	No obvious damage in appearance

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

3.2. Internal Identification of EUT

EUT ID*	SN or IMEI	HW Version	SW Version	Receive Date
UT05aa	016178000000725	03	AM3S	2022-01-04
UT05aa	016178000000733	03	AM3S	2022-01-04

*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
AE4	Headset

AE1

Model	TLp040M7
Manufacturer	VEKEN
Capacity	
Nominal Voltage	

AE2-1

Model	UC13US
S/N	CBA0059AGTC5
Manufacturer	PUAN

AE3-1

Model	CDA0000123C1
Manufacturer	JUWEI

AE4

Model	/
Manufacturer	/

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

AE: ancillary equipment

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3.4. EUT Set-ups

EUT set-up No.	Combination of EUT and AE	Remarks
Set.1	EUT+AE1-1+AE2-1+AE3	
Set.2	EUT+AE1-1+AE3+PC	
Set.3	EUT+AE1-1+AE2-1+AE3+AE4	

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3.5. General Description

The Equipment Under Test (EUT) is a model of Tablet PC.
It supports GSM 850/900/1800/1900MHz,WCDMA Bands 2/4/5 and
LTE Bands 2/4/5/7/12/13/17/25/26/29/30/41/41/66/71.
It has Video Player, Camera, FM Receiver, USB memory, Bluetooth, Wi-Fi and GNSS functions.
It consists of normal options: Battery, Charger USB Cable and headset.
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.

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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	(10-1-2020 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

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5. LABORATORY ENVIRONMENT

Semi-anechoic chamber did not exceed following limits along the EMC testing:
9.10m×6.10m×5.60m (L×W×H)

Temperature	Min. = 15 ℃, Max. = 35℃
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz,>60dB; 1MHz-18000MHz,>90dB
Electrical insulation	>2MΩ
Ground system resistance	<4Ω
Normalised site attenuation (NSA)	<±4 dB, 3 m distance, from 30 to 1000 MHz

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

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

Fully-anechoic chamber did not exceed following limits along the EMC testing:
9.10m×6.10m×5.60m (L×W×H)

Temperature	Min. = 15 ℃, Max. = 35℃
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz,>60dB; 1MHz-18000MHz,>90dB
Electrical insulation	>2MΩ
Ground system resistance	<4Ω
Voltage Standing Wave Ratio（VSWR）	≤ 6 dB, from 1 to 18GHz，3 m distance
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz

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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	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.

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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	2022.04.02	3 years
6.	LISN	ENV216	102067	R&S	2022.07.15	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.	Horn Antenna	QSH-SL-18-26-S-20	17013	Q-par	2023.01.06	3 years
11.	Horn Antenna	QSH-SL-8-26-40-K-20	17014	Q-par	2023.01.06	3 years

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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	/	/

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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.

FM receiver: The EUT is connected to a charger for charging. The EUT is synchronized to a FM signal generator. The EUT is keeping on demodulating the FM signal and outputting the audio signal through the headset.

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.

This device contains the receivers which tune and operate between 30MHz-960MHz in the following bands:

GSM850MHz, WCDMA Band5, LTE Band 5,LTE Band 12, LTE Band 13,LTE Band 26 LTE Band 71.

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

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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.

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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

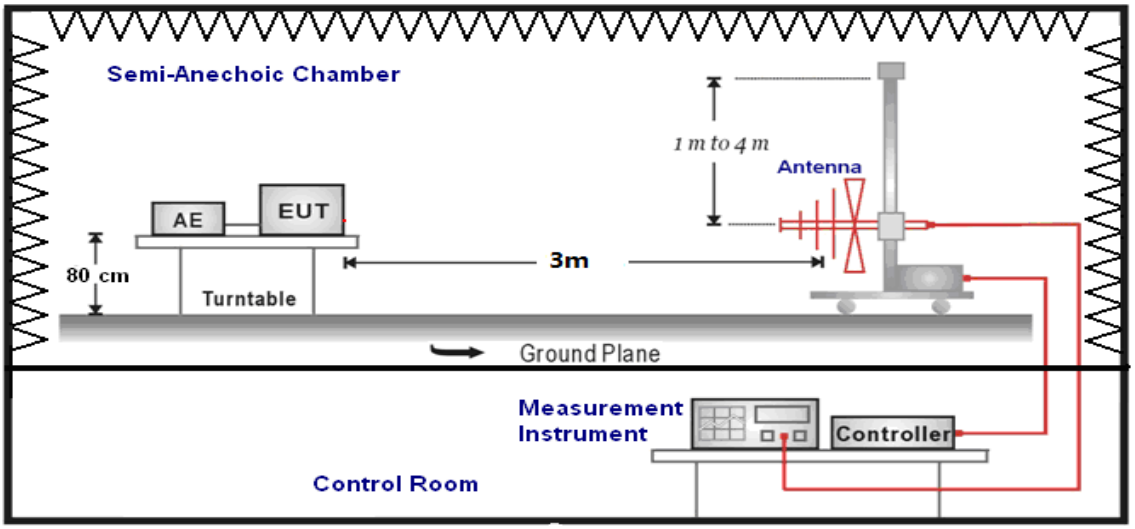
*Note: The original limit is defined at 10m test distance. This limit is calculated according to CISPR requirements.

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



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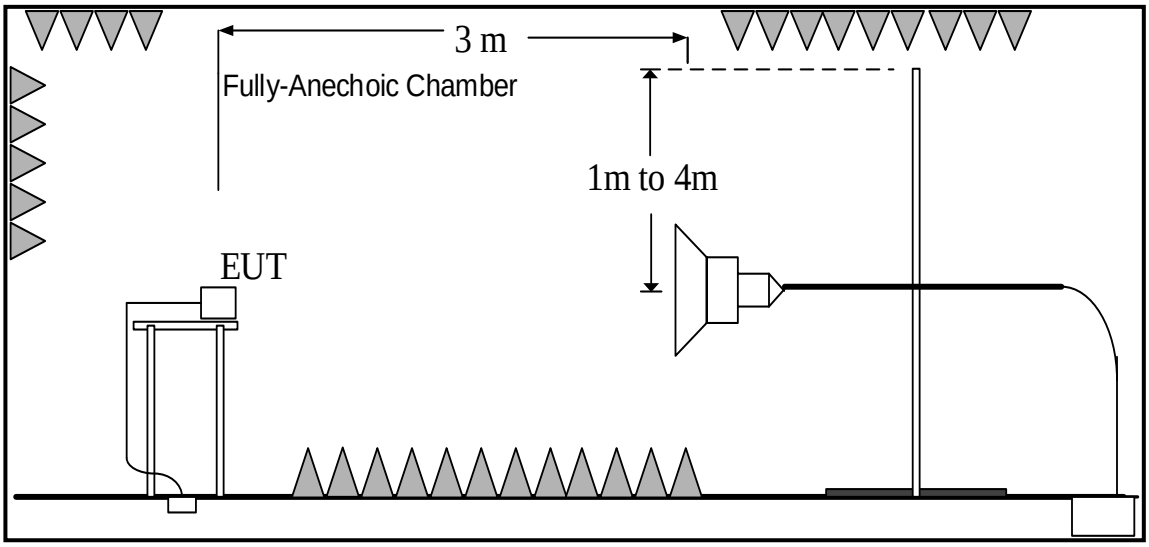
1GHz-40GHz



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) UT05aa/Set.1	Conclusion
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) UT05aa/Set.1	Conclusion
1000 to 3000	54.00	74.00	See Figure A.1.2.	P
3000 to 18000	54.00	74.00	See Figure A.1.3.	
18000 to 26500	63.51	83.51	See Figure A.1.4.	
26500 to 40000	63.51	83.51	See Figure A.1.5.	

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Video Player

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT05aa/Set.1	Conclusion
30-88	40.00	See Figure A.1.6.	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) UT05aa/Set.1	Conclusion
1000 to 3000	54.00	74.00	See Figure A.1.7.	P
3000 to 18000	54.00	74.00	See Figure A.1.8.	
18000 to 26500	63.51	83.51	See Figure A.1.9.	
26500 to 40000	63.51	83.51	See Figure A.1.10.	

FM receiver

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT05aa/Set.3	Conclusion
30-88	40.00	See Figure A.1.11.	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) UT05aa/Set.3	Conclusion
1000 to 3000	54.00	74.00	See Figure A.1.12.	P
3000 to 18000	54.00	74.00	See Figure A.1.13.	
18000 to 26500	63.51	83.51	See Figure A.1.14.	
26500 to 40000	63.51	83.51	See Figure A.1.15.	

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GSM receiver 850MHz

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT05aa/Set.1	Conclusion
30-88	40.00	See Figure A.1.16.	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) UT05aa/Set.1	Conclusion
1000 to 3000	54.00	74.00	See Figure A.1.17.	P
3000 to 18000	54.00	74.00	See Figure A.1.18.	
18000 to 26500	63.51	83.51	See Figure A.1.19.	
26500 to 40000	63.51	83.51	See Figure A.1.20.	

WCDMA receiver Band 5

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT05aa/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) UT05aa/Set.1	Conclusion
1000 to 3000	54.00	74.00	See Figure A.1.22.	P
3000 to 18000	54.00	74.00	See Figure A.1.23.	
18000 to 26500	63.51	83.51	See Figure A.1.24.	
26500 to 40000	63.51	83.51	See Figure A.1.25.	

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LTE receiver Band 12

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT05aa/Set.1	Conclusion
30-88	40.00	See Figure A.1.26.	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) UT05aa/Set.1	Conclusion
1000 to 3000	54.00	74.00	See Figure A.1.27.	P
3000 to 18000	54.00	74.00	See Figure A.1.28.	
18000 to 26500	63.51	83.51	See Figure A.1.29.	
26500 to 40000	63.51	83.51	See Figure A.1.30.	

LTE receiver Band 13

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT05aa/Set.1	Conclusion
30-88	40.00	See Figure A.1.31.	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) UT05aa/Set.1	Conclusion
1000 to 3000	54.00	74.00	See Figure A.1.32.	P
3000 to 18000	54.00	74.00	See Figure A.1.33.	
18000 to 26500	63.51	83.51	See Figure A.1.34.	
26500 to 40000	63.51	83.51	See Figure A.1.35.	

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LTE receiver Band 26

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT05aa/Set.1	Conclusion
30-88	40.00	See Figure A.1.36.	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) UT05aa/Set.1	Conclusion
1000 to 3000	54.00	74.00	See Figure A.1.37.	P
3000 to 18000	54.00	74.00	See Figure A.1.38.	
18000 to 26500	63.51	83.51	See Figure A.1.39.	
26500 to 40000	63.51	83.51	See Figure A.1.40.	

TE receiver Band 71

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) UT05aa/Set.1	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) UT05aa/Set.1	Conclusion
1000 to 3000	54.00	74.00	See Figure A.1.42.	P
3000 to 18000	54.00	74.00	See Figure A.1.43.	
18000 to 26500	63.51	83.51	See Figure A.1.44.	
26500 to 40000	63.51	83.51	See Figure A.1.45.	

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Data Transfer

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m)	Conclusion
		UT05aa/Set.2	
30-88	40.00	See Figure A.1.46.	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
			UT05aa/Set.1	
1000 to 3000	54.00	74.00	See Figure A.1.47.	P
3000 to 18000	54.00	74.00	See Figure A.1.48.	
18000 to 26500	63.51	83.51	See Figure A.1.49.	
26500 to 40000	63.51	83.51	See Figure A.1.50.	

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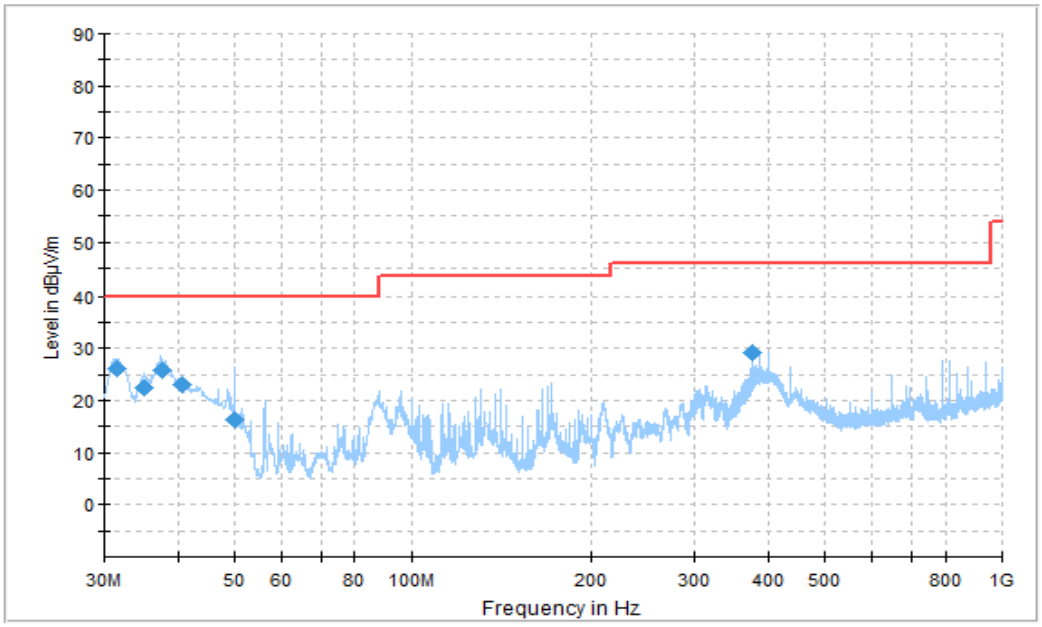

Figure A.1.1. Radiated Emission (Camera , 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBµV)
31.567222	26.05	40.00	13.95	V	-25.5	51.55
35.071667	22.39	40.00	17.61	V	-27.2	49.59
37.508889	25.70	40.00	14.30	V	-28.0	53.70
40.622222	22.99	40.00	17.01	V	-29.5	52.49
49.998889	16.25	40.00	23.75	V	-36.5	52.75
375.016667	29.01	46.00	16.99	V	-26.7	55.71

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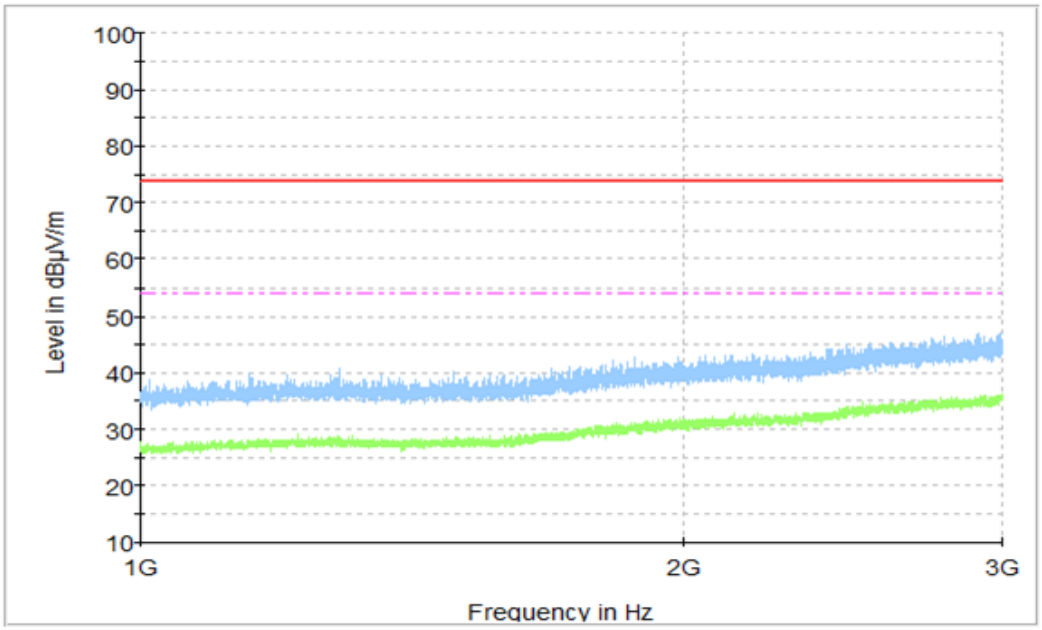

Figure A.1.2. Radiated Emission (Camera , 1GHz to 3GHz)

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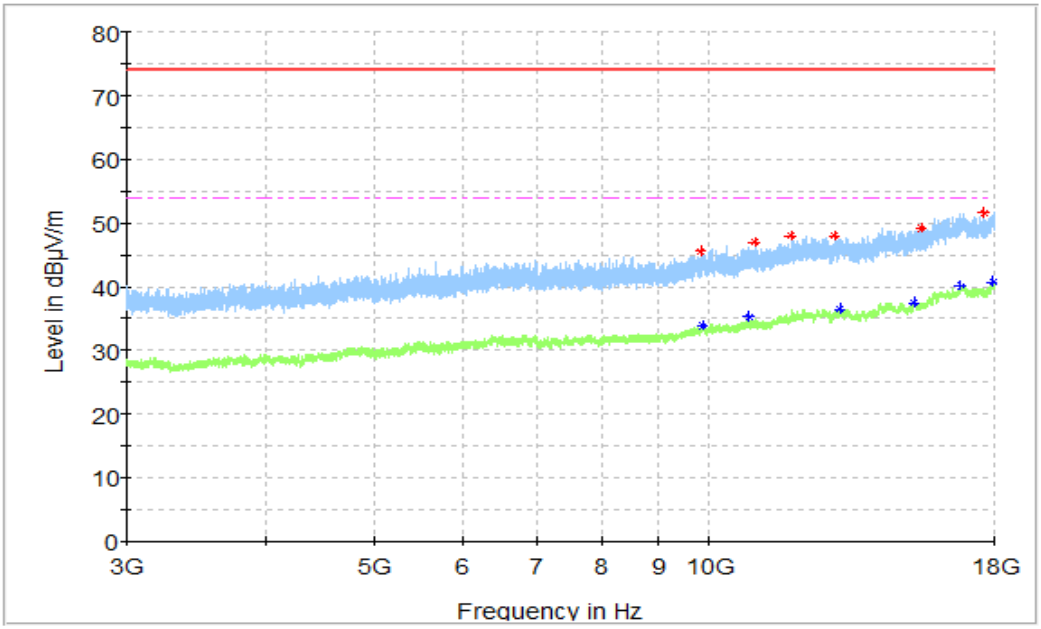

Figure A.1.3. Radiated Emission (Camera , 3GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
9844.500000	45.50	74.00	28.50	V	5.2	40.30
10980.000000	46.86	74.00	27.14	V	6.4	40.46
11853.000000	47.98	74.00	26.02	V	8.1	39.88
12964.000000	47.92	74.00	26.08	V	9.3	38.62
15492.000000	49.23	74.00	24.77	V	12.6	36.63
17617.500000	51.65	74.00	22.35	V	16.0	35.65

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
9856.000000	33.90	54.00	20.10	H	5.3	28.60
10856.000000	35.31	54.00	18.69	V	6.4	28.91
13105.500000	36.57	54.00	17.43	H	9.5	27.07
15287.500000	37.53	54.00	16.47	H	12.3	25.23
16810.500000	40.01	54.00	13.99	H	15.9	24.11
17959.500000	40.65	54.00	13.35	H	16.9	23.75

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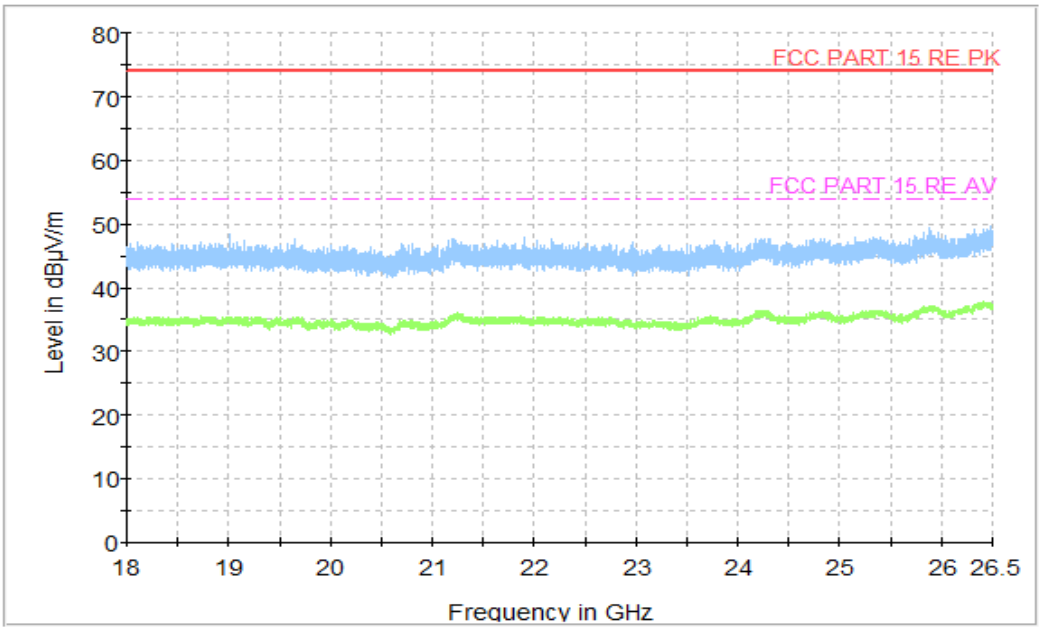

Figure A.1.4. Radiated Emission (Camera , 18GHz to 26.5GHz)

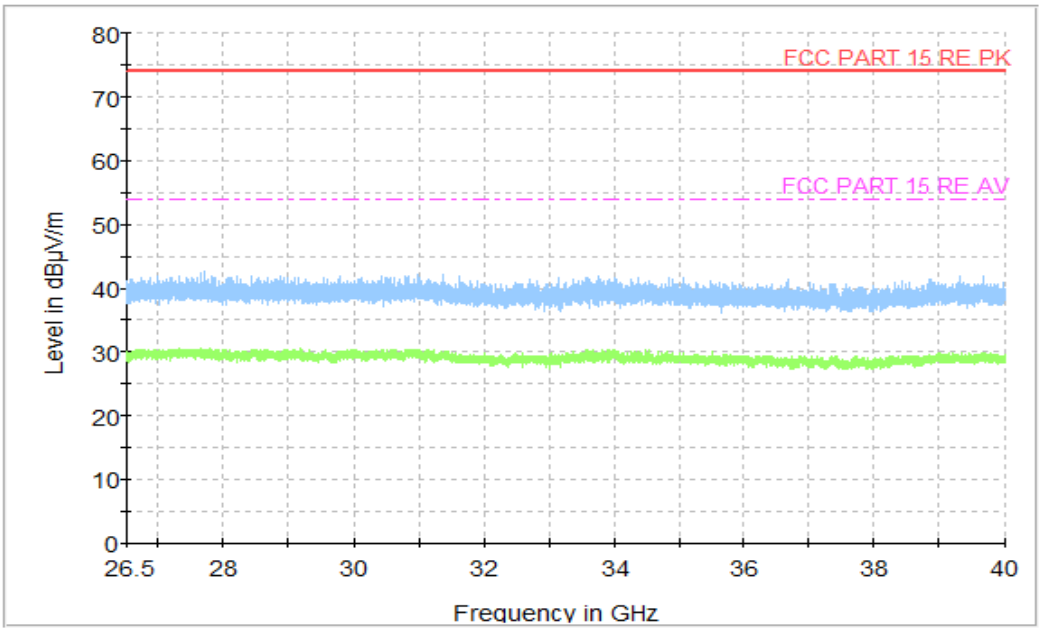

Figure A.1.5. Radiated Emission (Camera , 26.5GHz to 40GHz)

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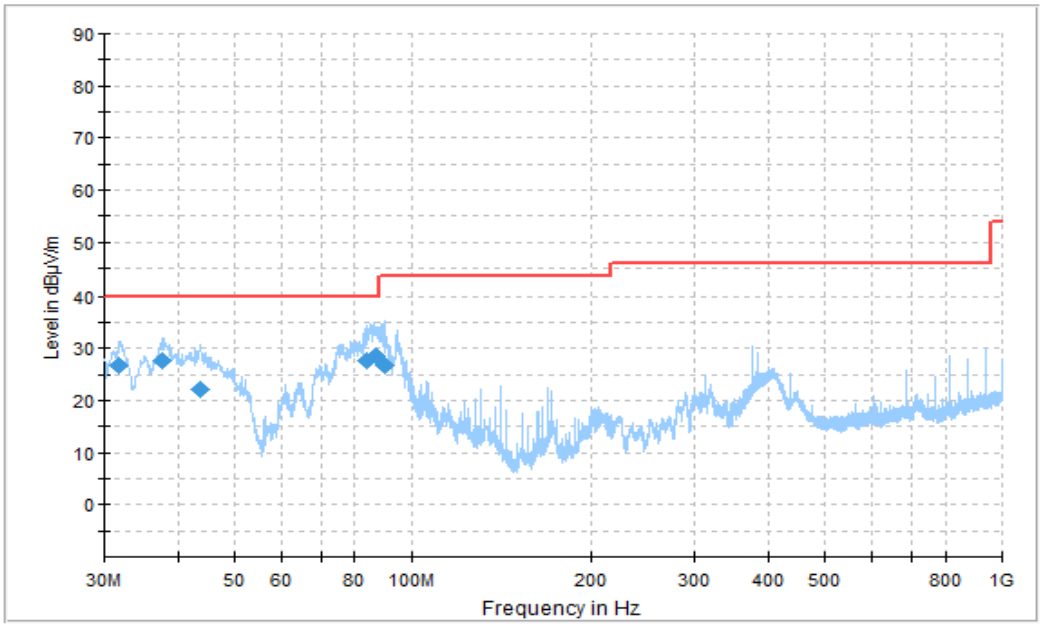

Figure A.1.6. Radiated Emission (Video Player , 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBµV)
31.652222	26.73	40.00	13.27	V	-25.5	52.23
37.752222	27.74	40.00	12.26	V	-28.1	55.84
43.721667	22.25	40.00	17.75	V	-31.8	54.05
83.907222	27.60	40.00	12.40	V	-33.5	61.10
86.627778	28.52	40.00	11.48	V	-33.2	61.72
89.770556	26.81	43.50	16.69	V	-32.8	59.61

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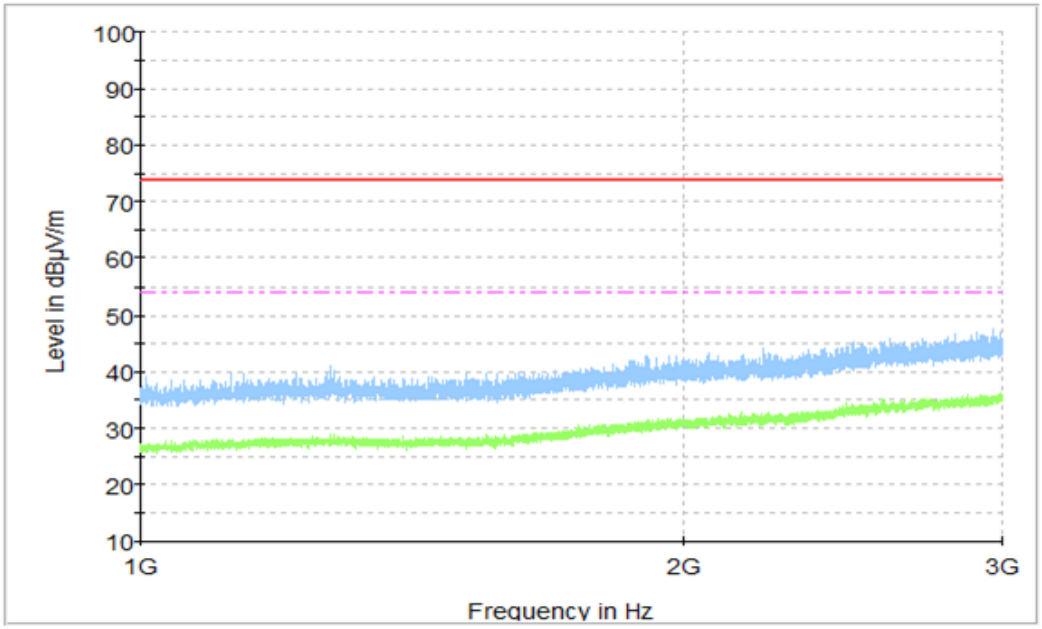

Figure A.1.7. Radiated Emission (Video Player , 1GHz to 3GHz)

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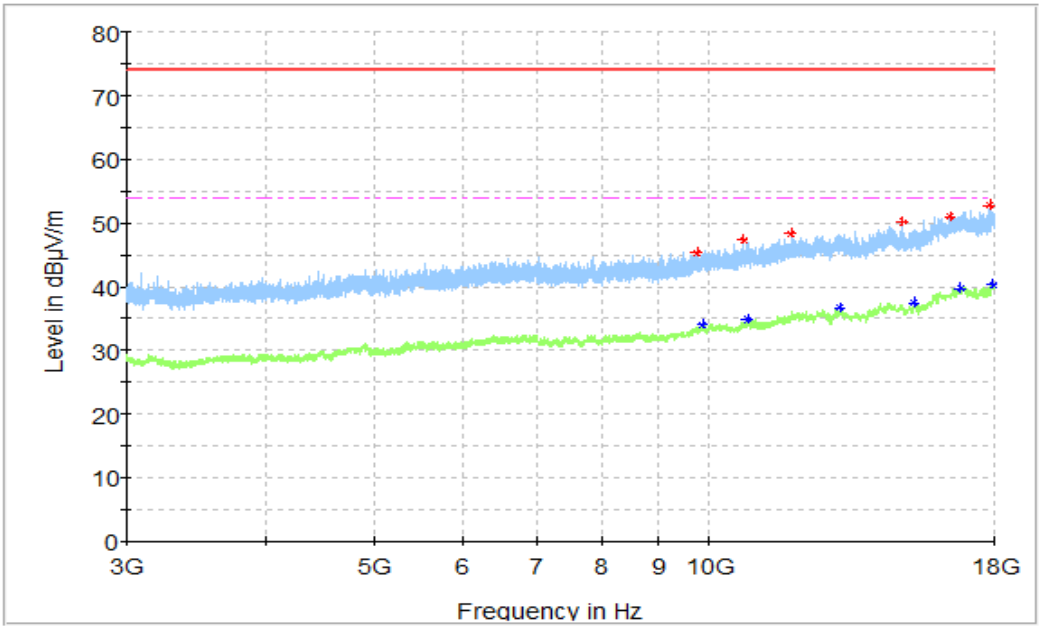

Figure A.1.8. Radiated Emission (Video Player , 3GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
9746.000000	45.29	74.00	28.71	H	4.7	40.59
10743.500000	47.28	74.00	26.72	V	6.1	41.18
11852.000000	48.38	74.00	25.62	V	8.1	40.28
14919.000000	50.21	74.00	23.79	V	11.7	38.51
16450.500000	50.94	74.00	23.06	H	14.9	36.04
17819.500000	52.77	74.00	21.23	H	16.6	36.17

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
9864.500000	34.06	54.00	19.94	H	5.2	28.86
10824.000000	34.84	54.00	19.16	H	6.4	28.44
13098.000000	36.73	54.00	17.27	H	9.8	26.93
15288.000000	37.51	54.00	16.49	H	12.3	25.21
16780.000000	39.77	54.00	14.23	V	15.8	23.97
17947.000000	40.38	54.00	13.62	H	17.3	23.08

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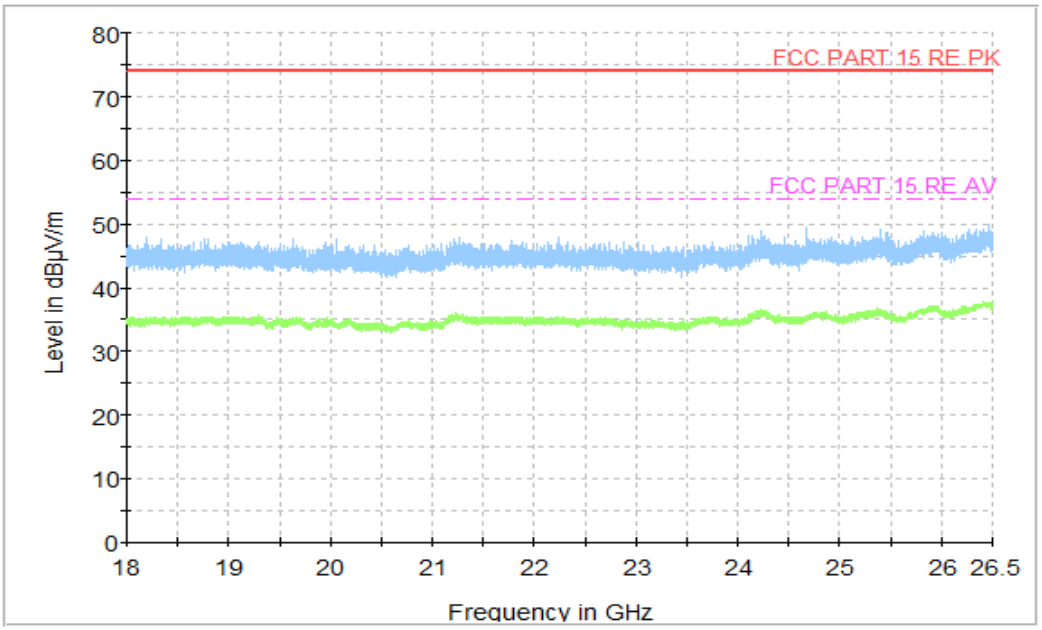

Figure A.1.9. Radiated Emission (Video Player , 18GHz to 26.5GHz)

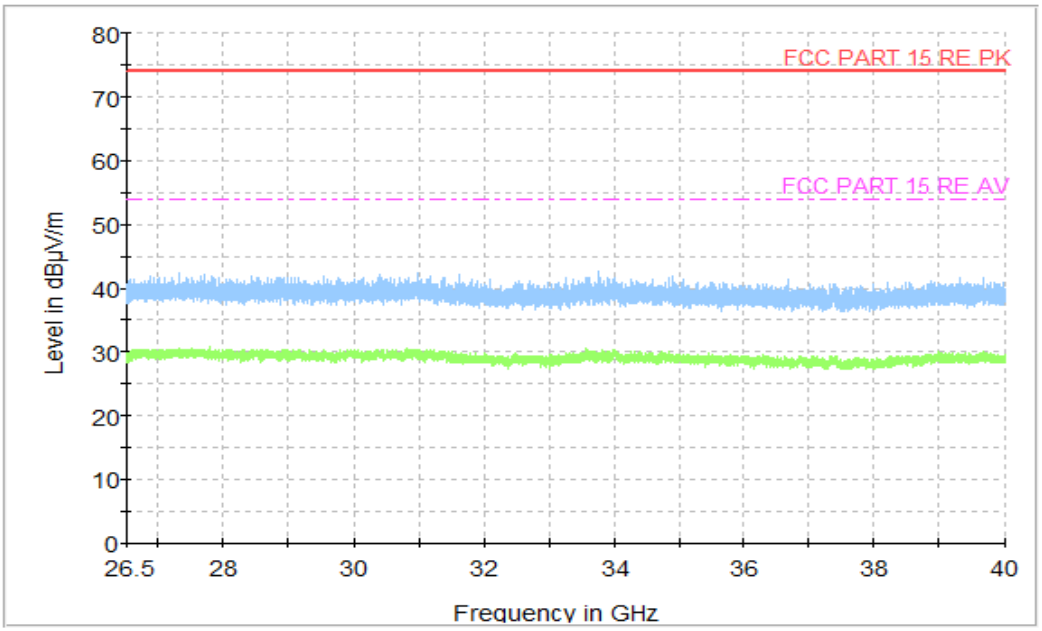

Figure A.1.10. Radiated Emission (Video Player , 26.5GHz to 40GHz)

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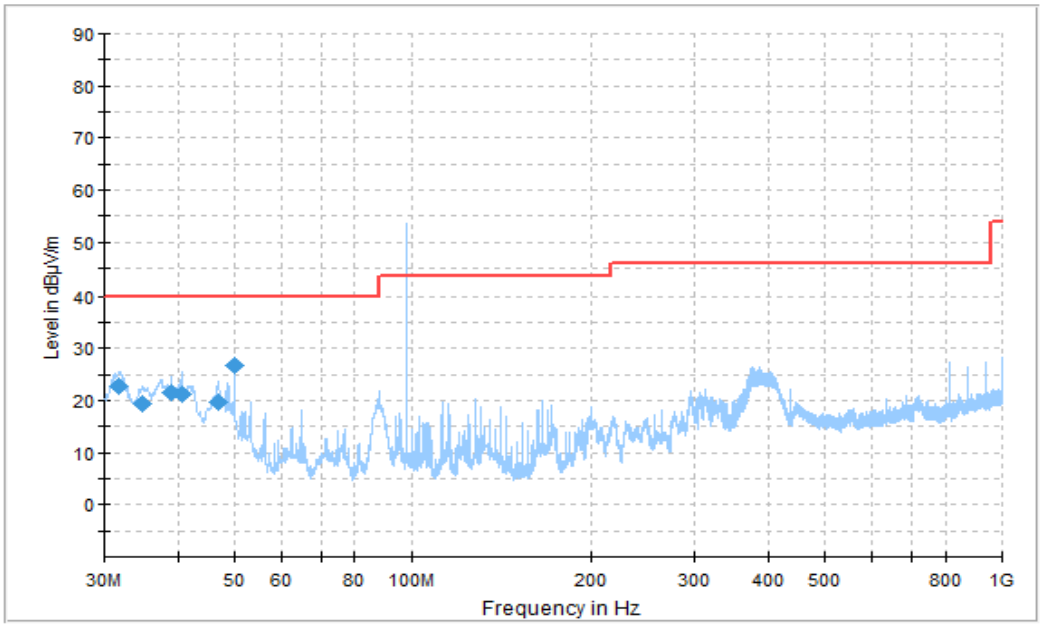

Figure A.1.11. Radiated Emission (FM receiver , 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	PMea (dBµV)
31.772222	22.69	40.00	17.31	V	-25.6	48.29
34.750000	19.33	40.00	20.67	V	-27.0	46.33
38.979444	21.63	40.00	18.37	V	-29.2	50.83
40.636111	21.18	40.00	18.82	V	-29.5	50.68
46.873333	19.51	40.00	20.49	V	-34.3	53.81
49.998889	26.80	40.00	13.20	V	-36.5	63.30

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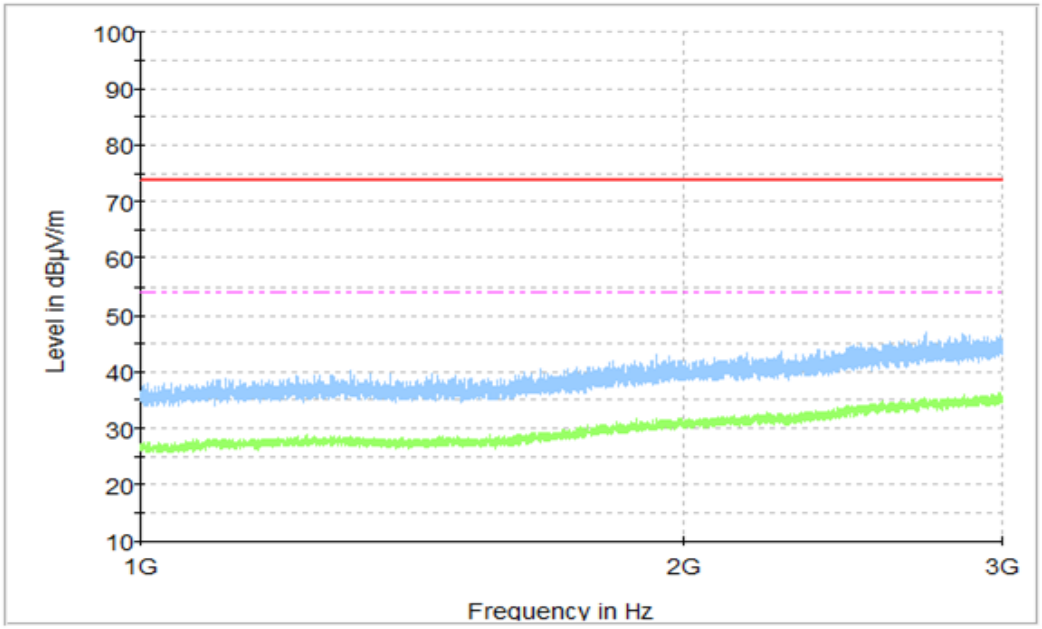

Figure A.1.12. Radiated Emission (FM receiver , 1GHz to 3GHz)

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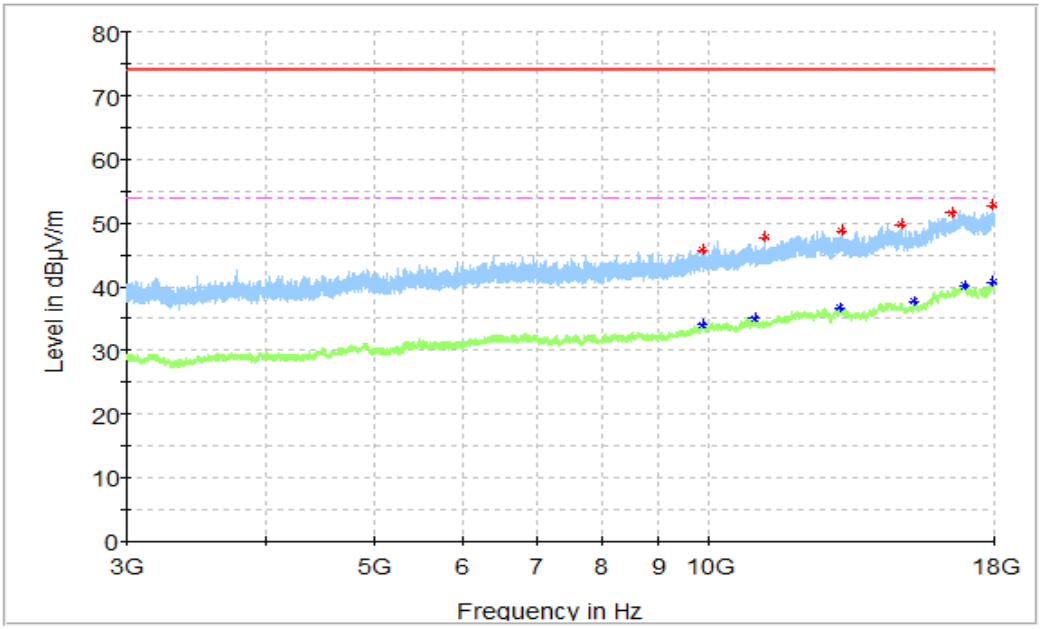

Figure A.1.13. Radiated Emission (FM receiver, 3GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
9874.500000	45.84	74.00	28.16	H	5.2	40.64
11218.500000	47.78	74.00	26.22	V	6.2	41.58
13163.000000	48.80	74.00	25.20	H	9.7	39.10
14853.500000	49.72	74.00	24.28	H	11.5	38.22
16483.000000	51.60	74.00	22.40	V	15.1	36.5
17945.500000	52.79	74.00	21.21	H	17.3	35.49

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
9858.500000	34.02	54.00	19.98	H	5.3	28.72
10975.000000	35.09	54.00	18.91	H	6.6	28.49
13098.000000	36.61	54.00	17.39	H	9.8	26.81
15281.000000	37.64	54.00	16.36	H	12.2	25.44
16938.000000	40.10	54.00	13.90	H	15.9	24.2
17945.000000	40.65	54.00	13.35	H	17.3	23.35

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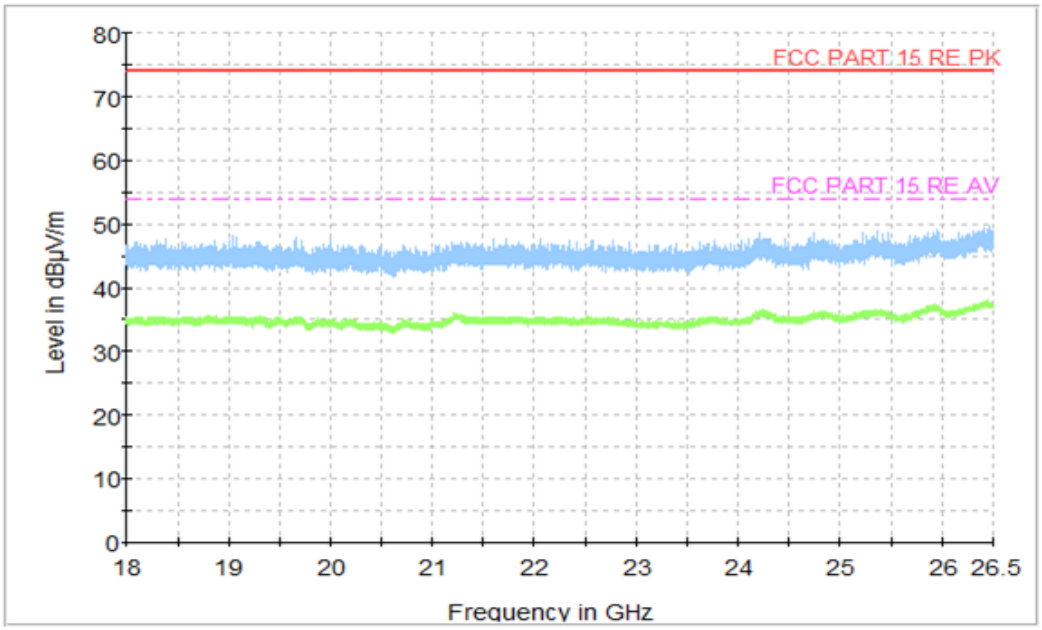

Figure A.1.14. Radiated Emission (FM receiver , 18GHz to 26.5GHz)

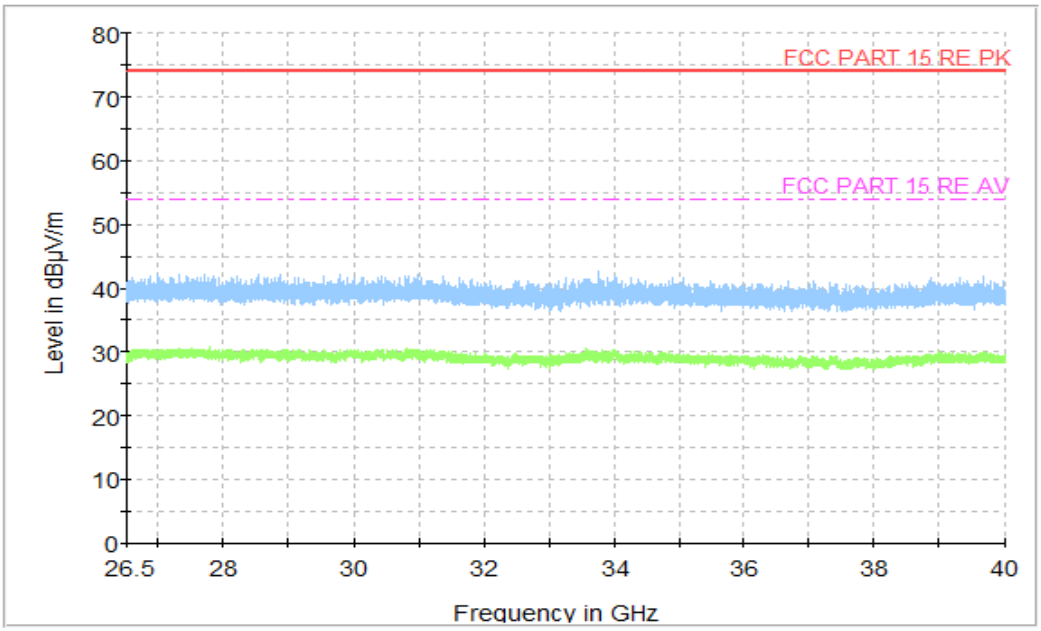

Figure A.1.15. Radiated Emission (FM receiver , 26.5GHz to 40GHz)

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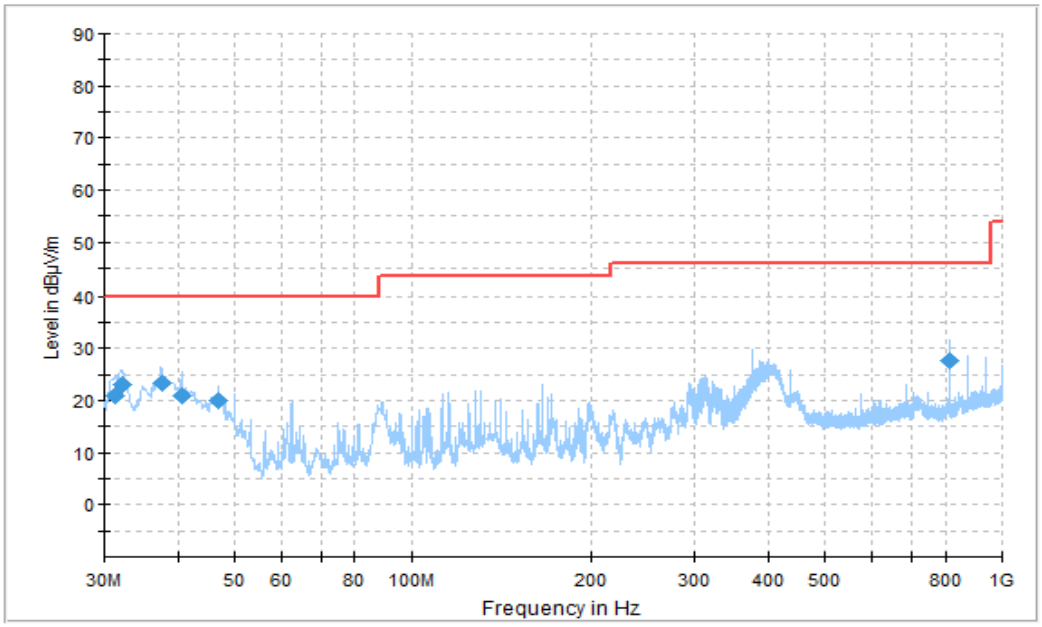

Figure A.1.16. Radiated Emission (GSM receiver 850MHz, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
31.243889	20.79	40.00	19.21	V	-25.3	46.09
32.121667	22.89	40.00	17.11	V	-25.7	48.59
37.510556	23.48	40.00	16.52	V	-28.0	51.48
40.622222	20.92	40.00	19.08	V	-29.5	50.42
46.873333	19.88	40.00	20.12	V	-34.3	54.18
812.540556	27.64	46.00	18.36	V	-18.5	46.14

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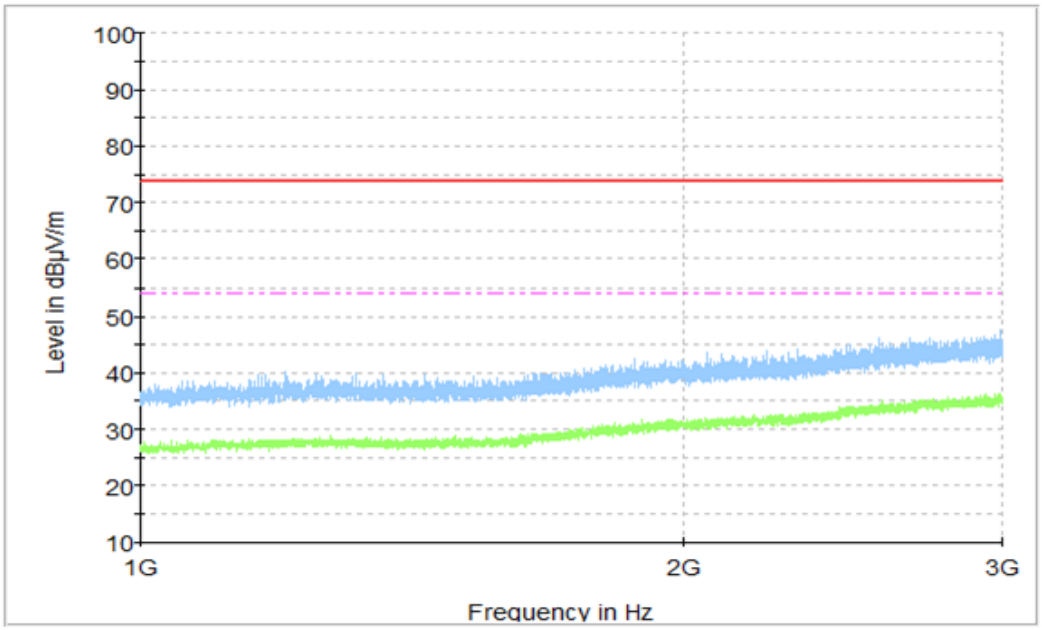

Figure A.1.17. Radiated Emission (GSM receiver 850MHz , 1GHz to 3GHz)

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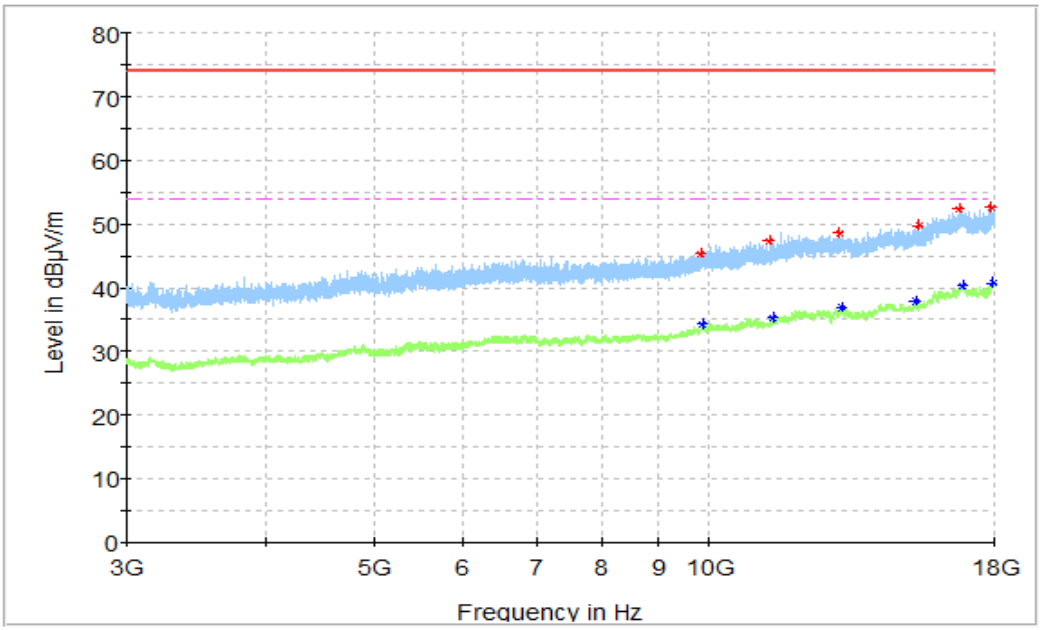

Figure A.1.18. Radiated Emission (GSM receiver 850MHz , 3GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
9839.000000	45.40	74.00	28.60	H	5.1	51.30
11309.500000	47.32	74.00	26.68	V	6.3	50.00
13083.500000	48.54	74.00	25.46	H	9.3	48.20
15413.000000	49.73	74.00	24.27	V	12.6	46.90
16753.500000	52.32	74.00	21.68	V	15.6	46.40
17902.000000	52.56	74.00	21.44	H	17.0	43.70

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
9860.500000	34.18	54.00	19.82	V	5.2	38.30
11439.500000	35.31	54.00	18.69	H	6.7	37.60
13129.500000	36.81	54.00	17.19	V	9.7	34.90
15294.000000	37.88	54.00	16.12	H	12.4	33.10
16881.500000	40.33	54.00	13.67	V	16.1	32.60
17944.000000	40.75	54.00	13.25	V	17.3	30.90

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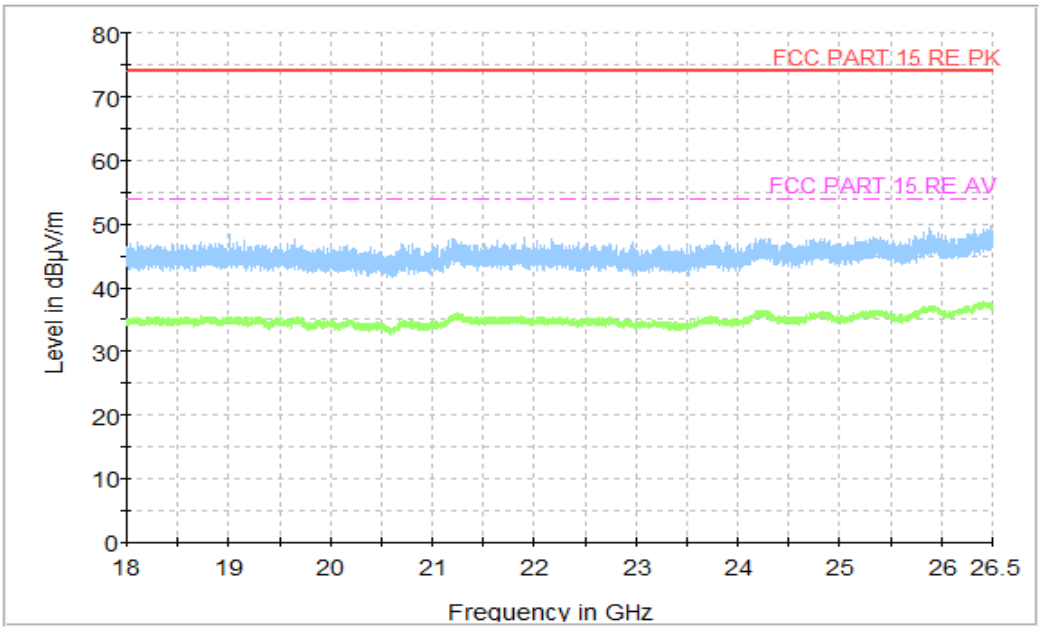

Figure A.1.19. Radiated Emission (GSM receiver 850MHz, 18GHz to 26.5GHz)

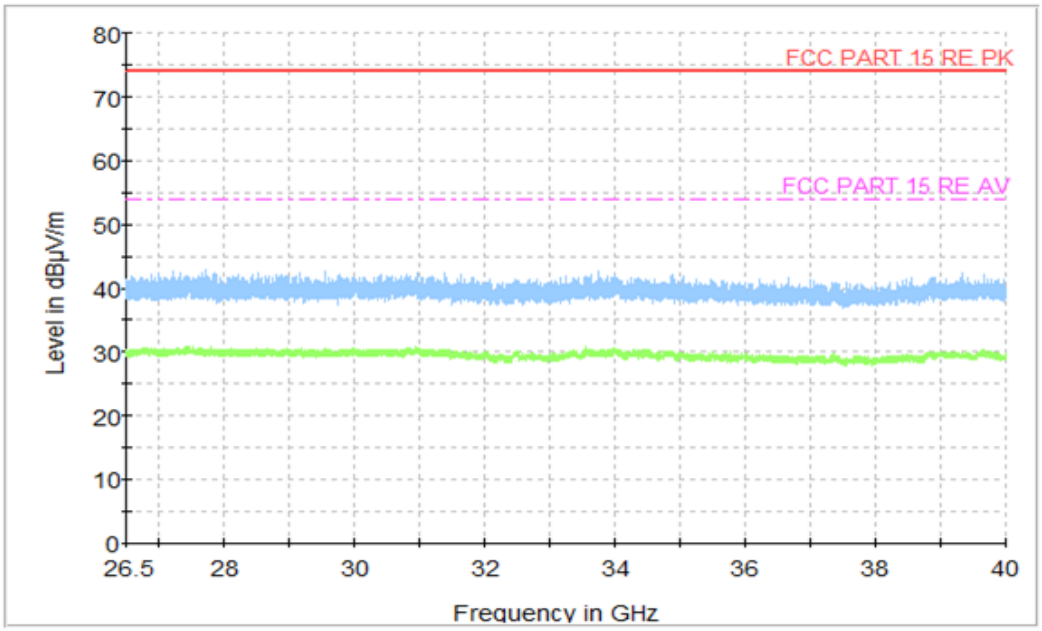

Figure A.1.20. Radiated Emission (GSM receiver 850MHz , 26.5GHz to 40GHz)

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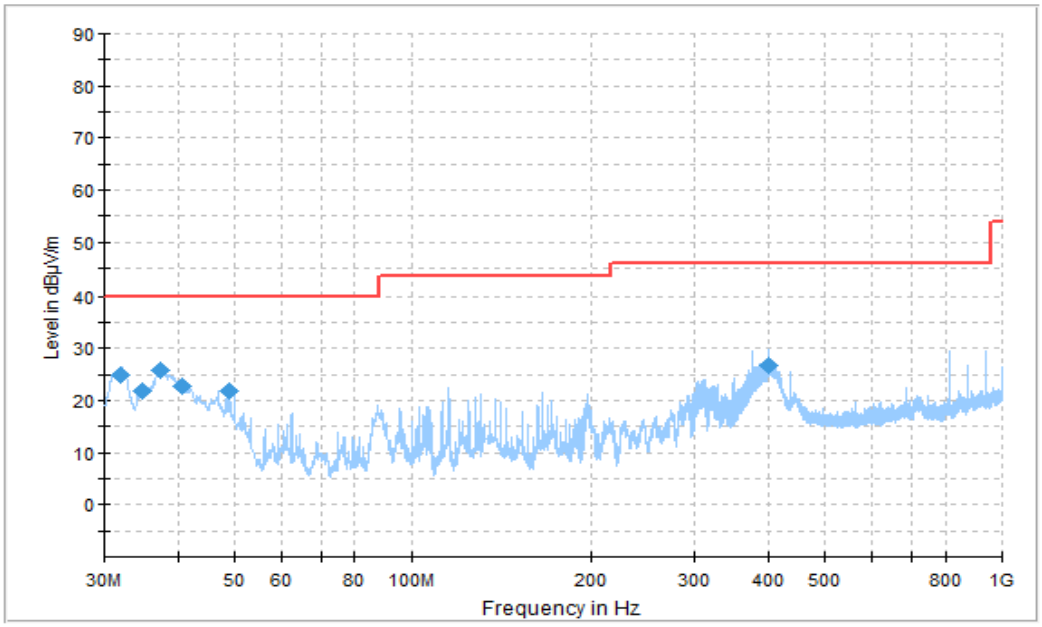

Figure A.1.21. Radiated Emission (WCDMA receiver Band 5, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
32.024444	24.91	40.00	15.09	V	-25.7	50.61
34.934444	21.76	40.00	18.24	V	-27.1	48.86
37.496667	25.71	40.00	14.29	V	-28.0	53.71
40.622222	22.71	40.00	17.29	V	-29.5	52.21
48.759444	21.81	40.00	18.19	V	-35.5	57.31
400.021111	26.73	46.00	19.27	H	-26.4	53.13

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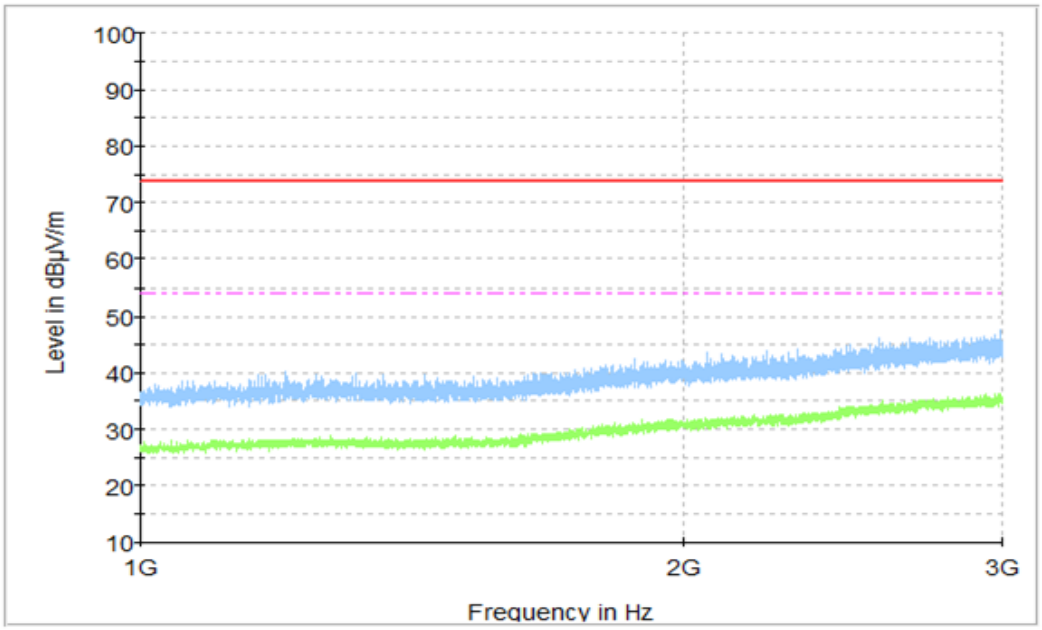

Figure A.1.22. Radiated Emission (WCDMA 850MHz , 1GHz to 3GHz)

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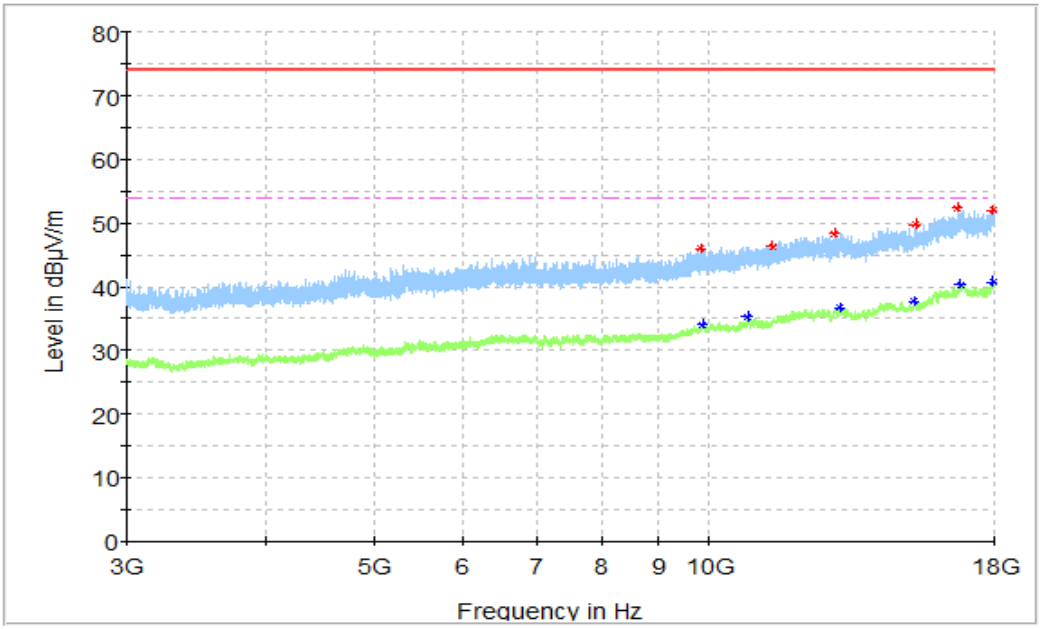

Figure A.1.23. Radiated Emission (WCDMA receiver Band 5, 3GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
9847.500000	45.94	74.00	28.06	H	5.2	40.74
11382.500000	46.40	74.00	27.60	V	6.6	39.8
12946.000000	48.42	74.00	25.58	H	9.3	39.12
15299.500000	49.80	74.00	24.20	V	12.4	37.40
16718.000000	52.46	74.00	21.54	V	15.4	37.06
17951.500000	52.06	74.00	21.94	H	17.1	34.96

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
9879.500000	34.02	54.00	19.98	H	5.3	28.72
10822.000000	35.23	54.00	18.77	V	6.5	28.73
13099.000000	36.73	54.00	17.27	H	9.8	26.93
15285.000000	37.70	54.00	16.30	V	12.3	25.40
16820.000000	40.25	54.00	13.75	H	15.9	24.35
17952.500000	40.71	54.00	13.29	V	17.1	23.61

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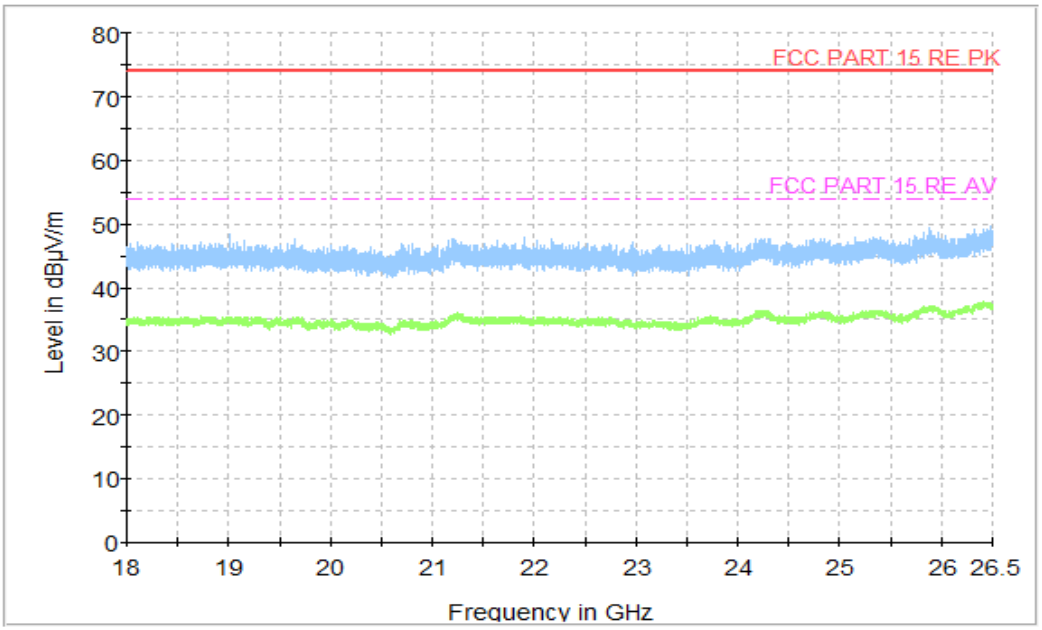

Figure A.1.24. Radiated Emission (WCDMA receiver Band 5 , 18GHz to 26.5GHz)

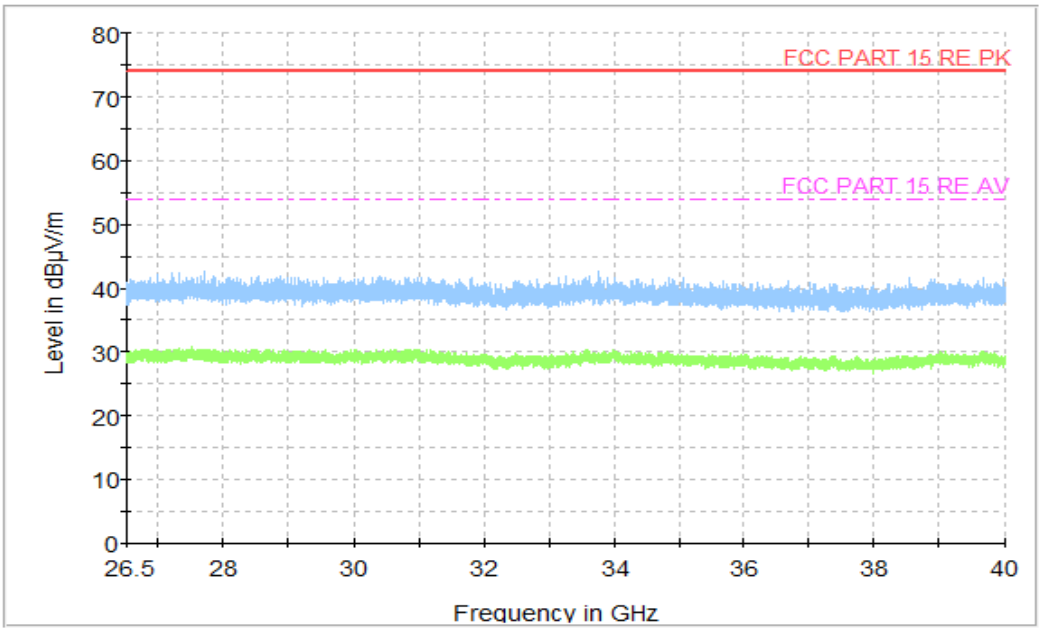

Figure A.1.25. Radiated Emission (WCDMA receiver Band 5 , 26.5GHz to 40GHz)

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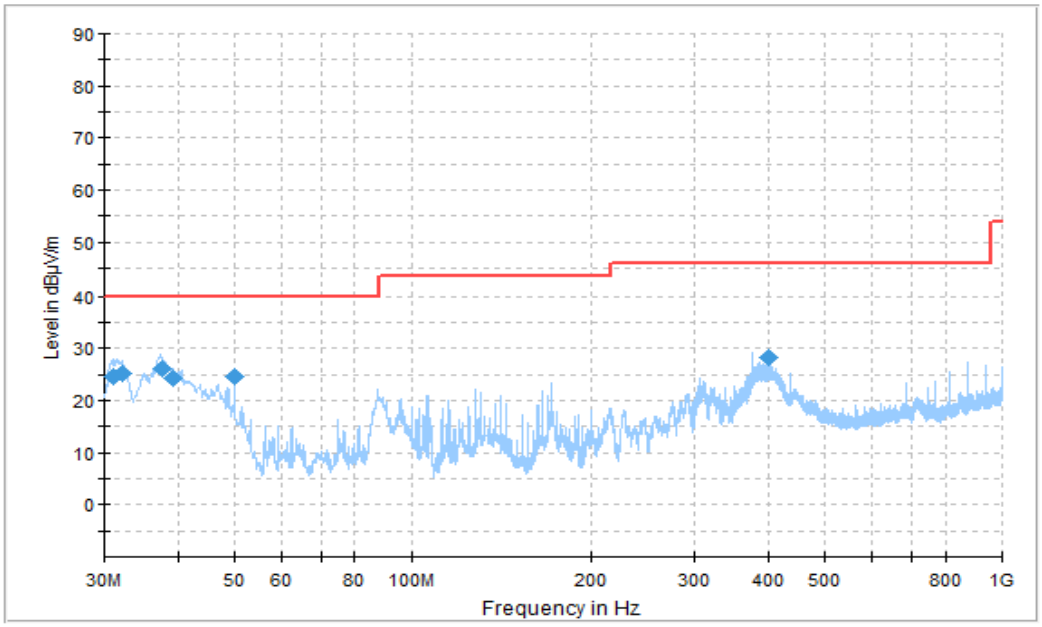

Figure A.1.26. Radiated Emission (LTE receiver Band 12, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
31.123889	24.60	40.00	15.40	V	-25.2	49.80
32.121667	25.31	40.00	14.69	V	-25.7	51.01
37.510556	26.05	40.00	13.95	V	-28.0	54.05
39.328889	24.17	40.00	15.83	V	-29.3	53.47
49.998889	24.44	40.00	15.56	V	-36.5	60.94
400.021111	28.09	46.00	17.91	V	-26.4	54.49

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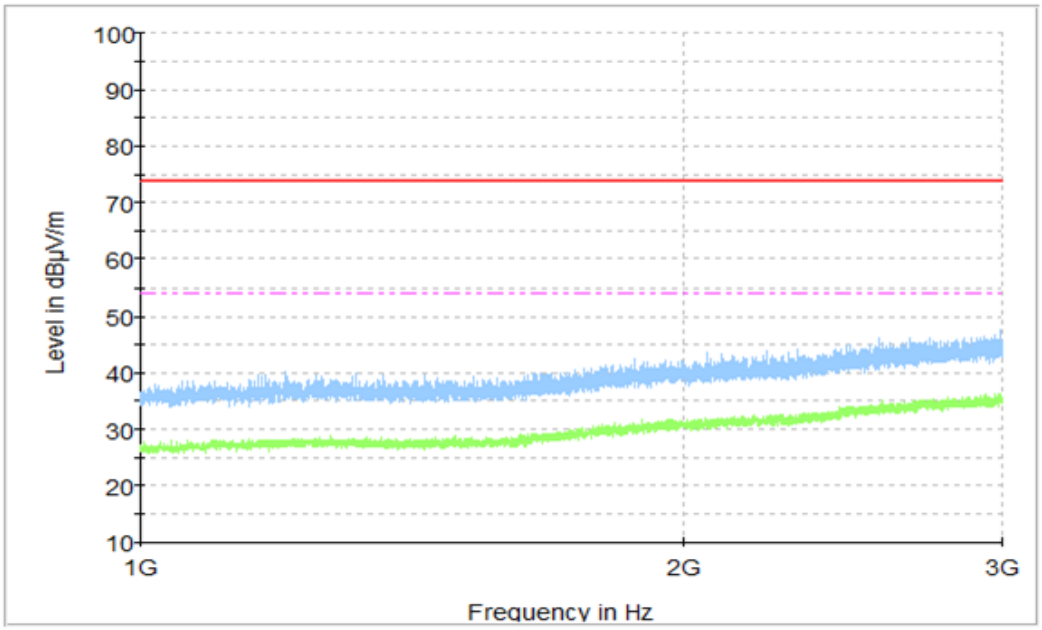

Figure A.1.27. Radiated Emission (LTE receiver Band 12 , 1GHz to 3GHz)

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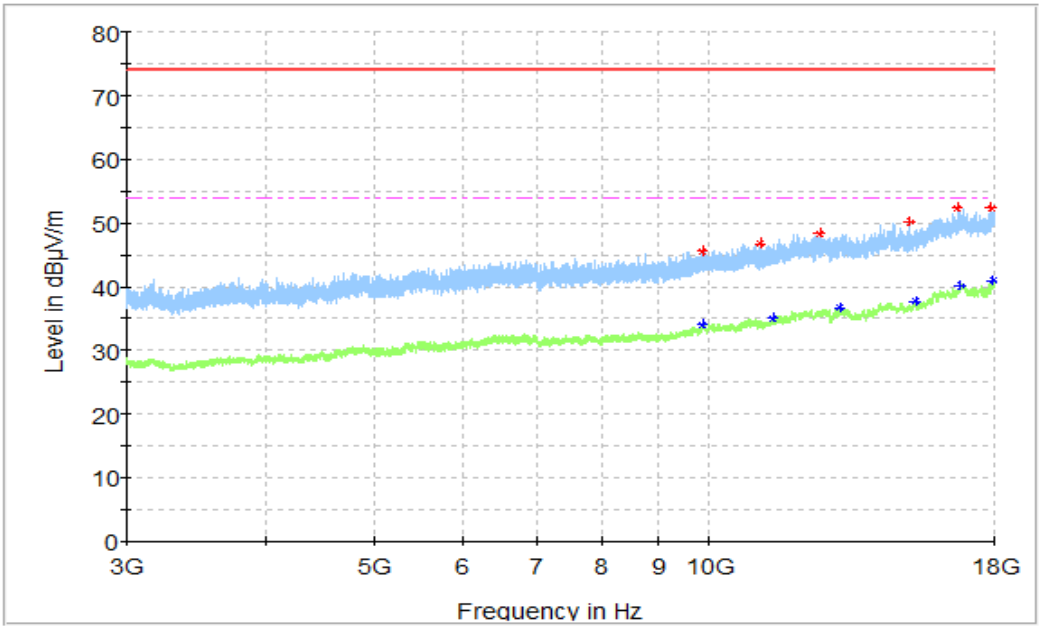

Figure A.1.28. Radiated Emission (LTE receiver Band 12, 3GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
9877.000000	45.62	74.00	28.38	V	5.3	40.32
11104.000000	46.82	74.00	27.18	V	6.0	40.82
12558.500000	48.45	74.00	25.55	V	8.4	40.05
15144.000000	50.10	74.00	23.90	H	11.8	38.30
16723.000000	52.45	74.00	21.55	H	15.4	37.05
17911.000000	52.40	74.00	21.60	H	17.3	35.10

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
9852.500000	34.05	54.00	19.95	V	5.3	28.75
11431.500000	35.09	54.00	18.91	V	6.8	28.29
13125.000000	36.74	54.00	17.26	V	9.8	26.94
15296.000000	37.72	54.00	16.28	V	12.4	25.32
16819.500000	40.02	54.00	13.98	H	15.9	24.12
17950.500000	40.84	54.00	13.16	H	17.2	23.64

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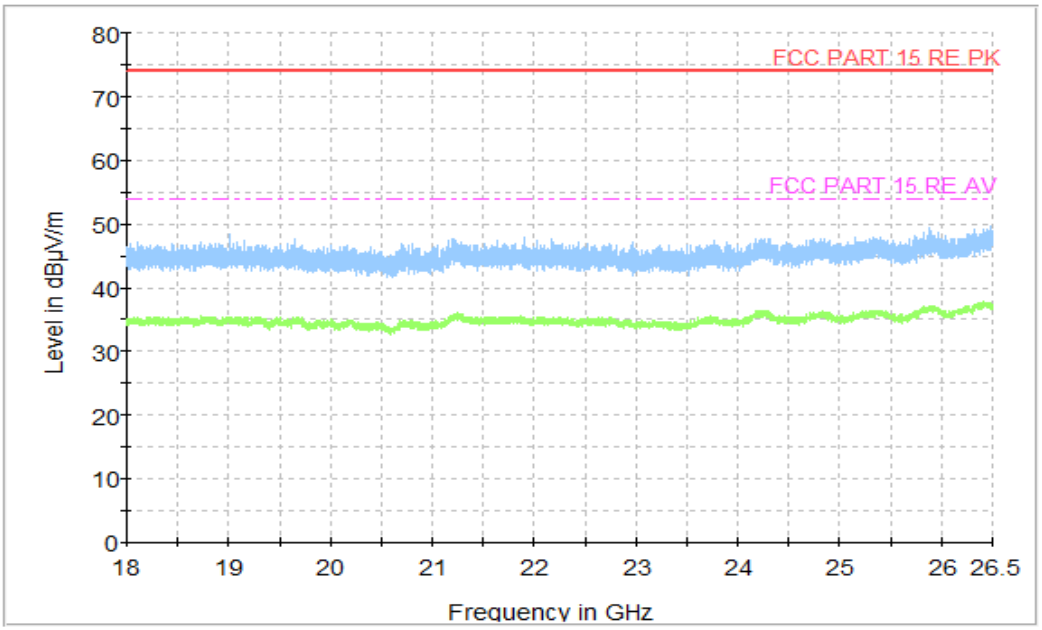

Figure A.1.29. Radiated Emission ((LTE receiver Band 12 , 18GHz to 26.5GHz)

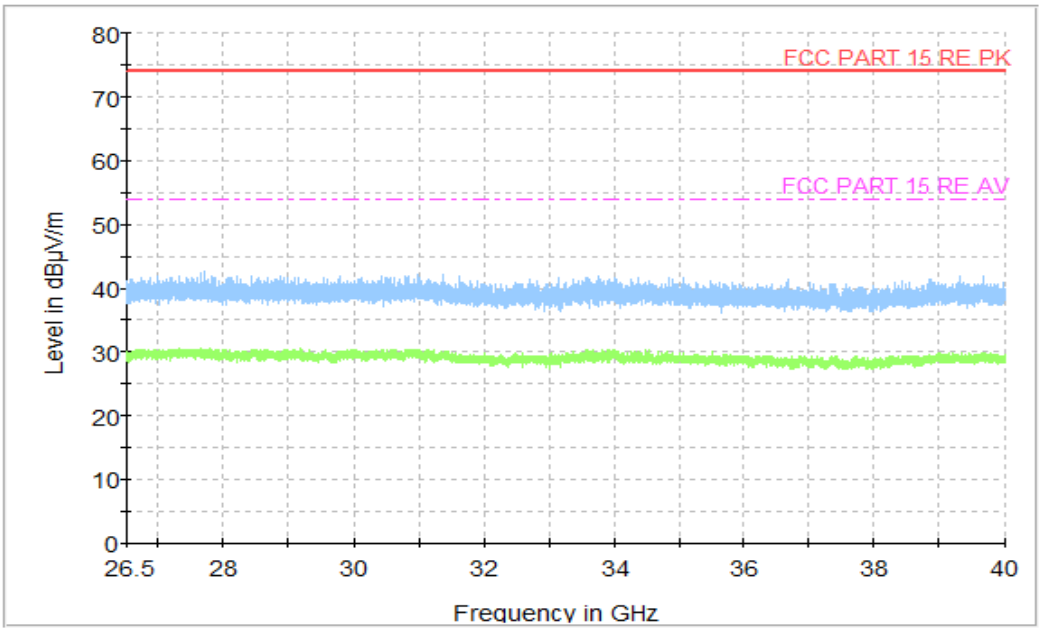

Figure A.1.30. Radiated Emission ((LTE receiver Band 12 , 26.5GHz to 40GHz)

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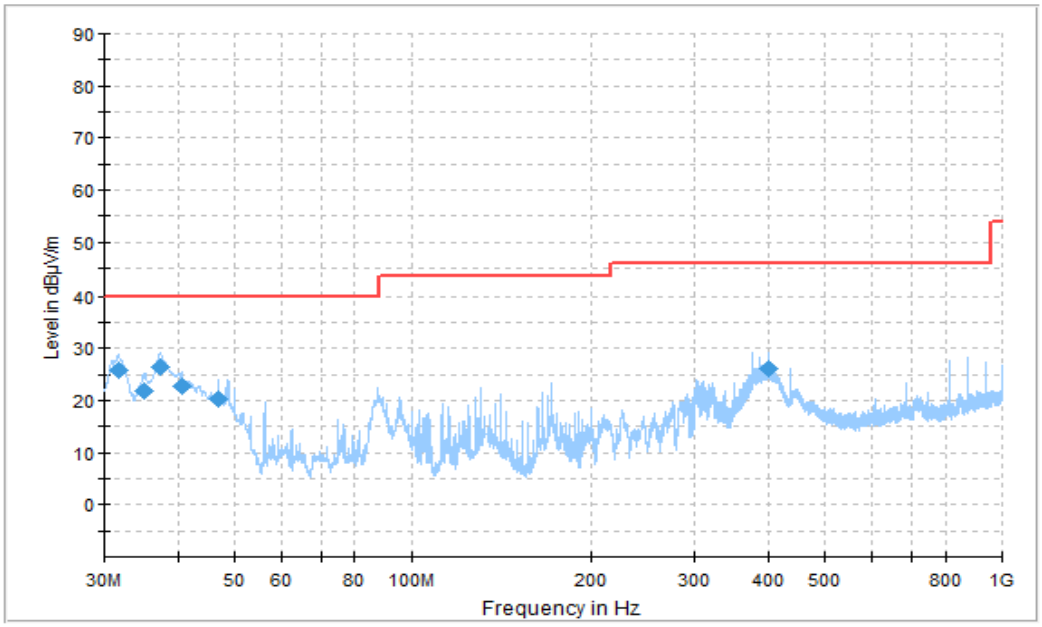

Figure A.1.31. Radiated Emission (LTE receiver Band 13, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
31.812222	25.72	40.00	14.28	V	-25.6	51.32
34.963889	21.85	40.00	18.15	V	-27.1	48.95
37.413333	26.32	40.00	13.68	V	-27.9	54.22
40.636111	22.83	40.00	17.17	V	-29.5	52.33
46.873333	20.30	40.00	19.70	V	-34.3	54.6
400.021111	26.18	46.00	19.82	V	-26.4	52.58

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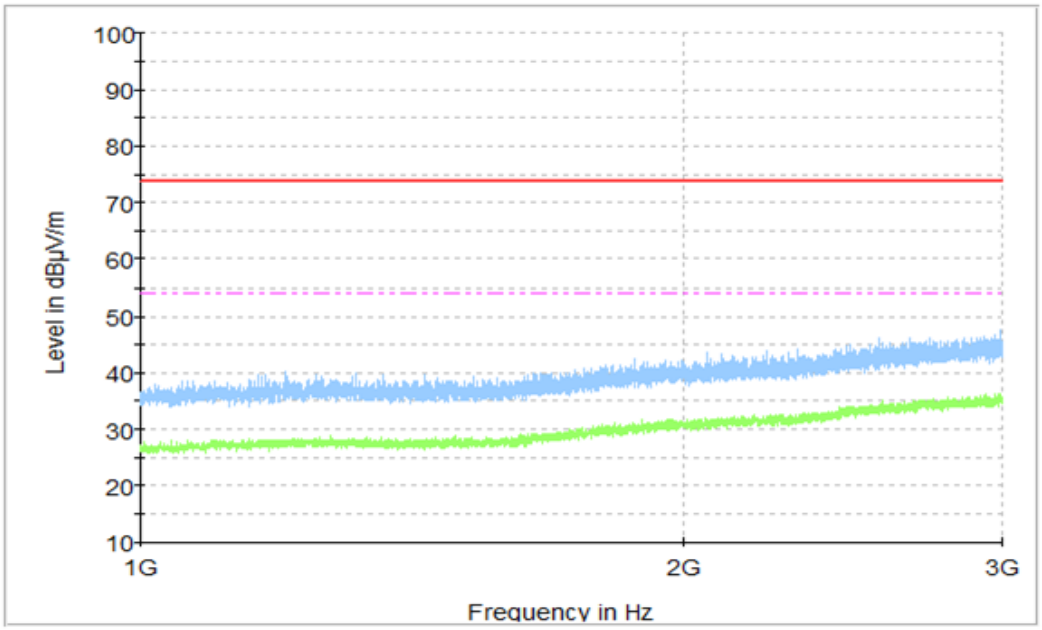

Figure A.1.32. Radiated Emission (LTE receiver Band 13 , 1GHz to 3GHz)

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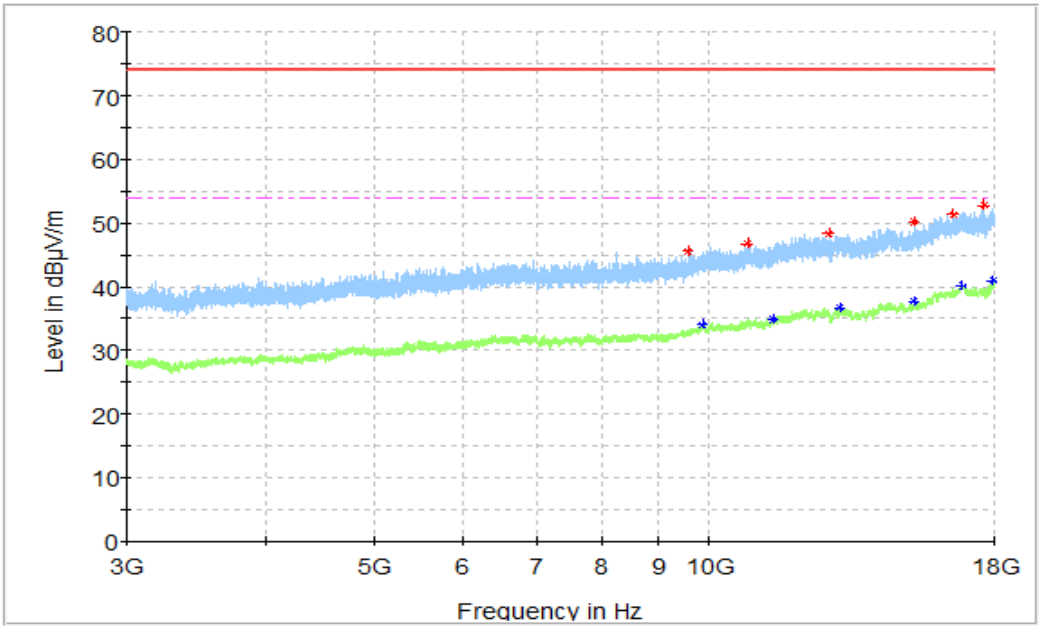

Figure A.1.33. Radiated Emission (LTE receiver Band 13, 3GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
9586.000000	45.56	74.00	28.44	H	4.1	41.46
10823.500000	46.81	74.00	27.19	V	6.4	40.41
12805.500000	48.46	74.00	25.54	H	9.0	39.46
15280.000000	50.19	74.00	23.81	V	12.2	37.99
16572.000000	51.43	74.00	22.57	V	15.2	36.23
17630.500000	52.76	74.00	21.24	H	15.9	36.86

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
9881.000000	34.08	54.00	19.92	H	5.4	28.68
11432.500000	34.92	54.00	19.09	H	6.8	28.12
13099.000000	36.67	54.00	17.33	H	9.8	26.87
15276.500000	37.70	54.00	16.30	H	12.1	25.60
16850.500000	40.03	54.00	13.97	H	16.0	24.03
17954.500000	40.82	54.00	13.18	H	17.1	23.72

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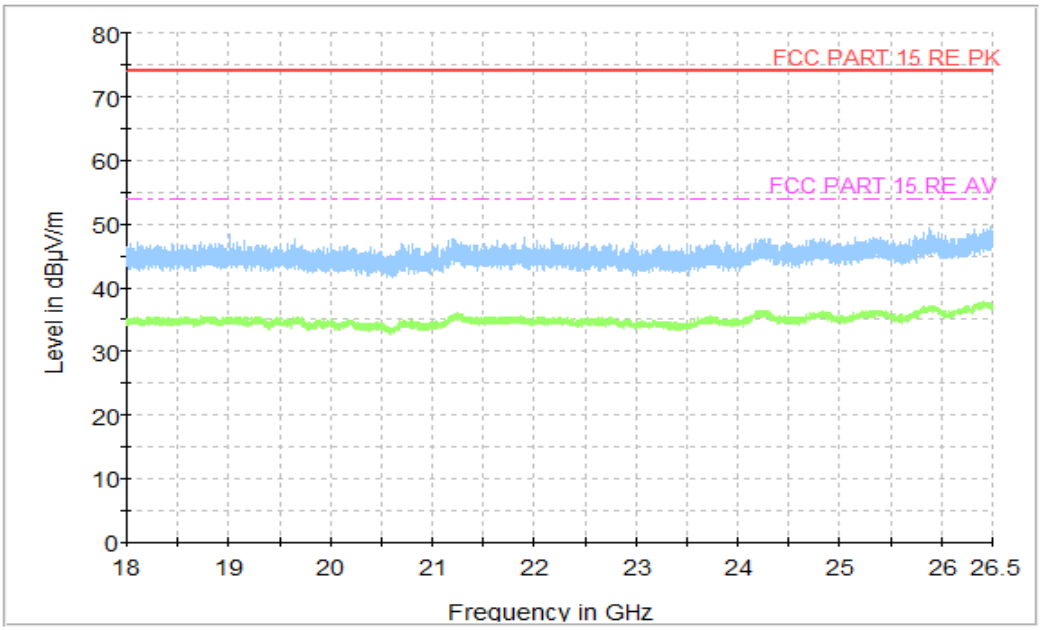

Figure A.1.34. Radiated Emission ((LTE receiver Band 13 , 18GHz to 26.5GHz)

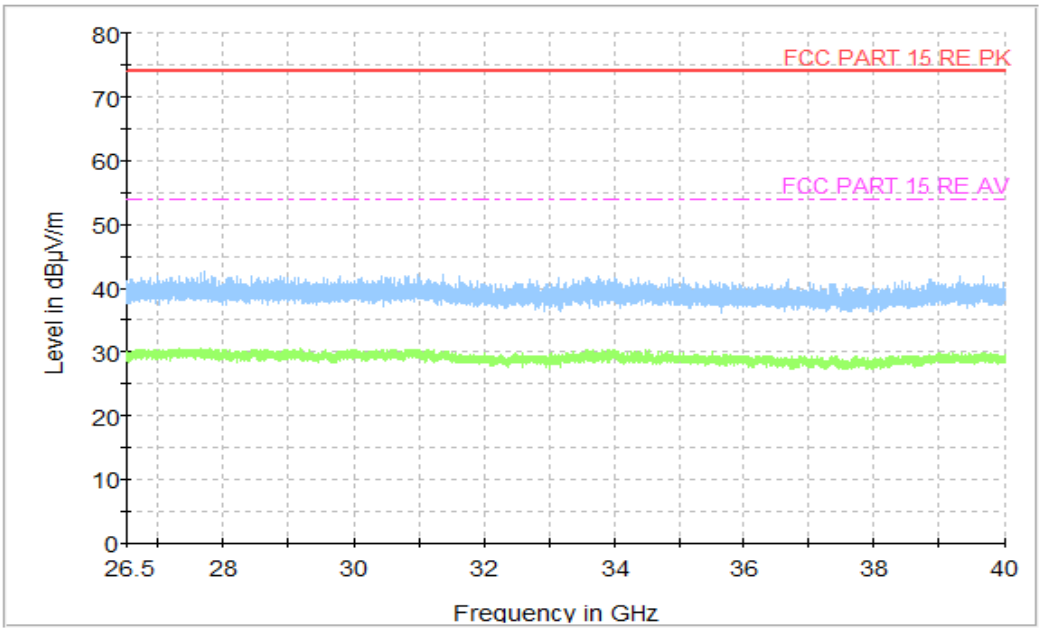

Figure A.1.35. Radiated Emission ((LTE receiver Band 13 , 26.5GHz to 40GHz)

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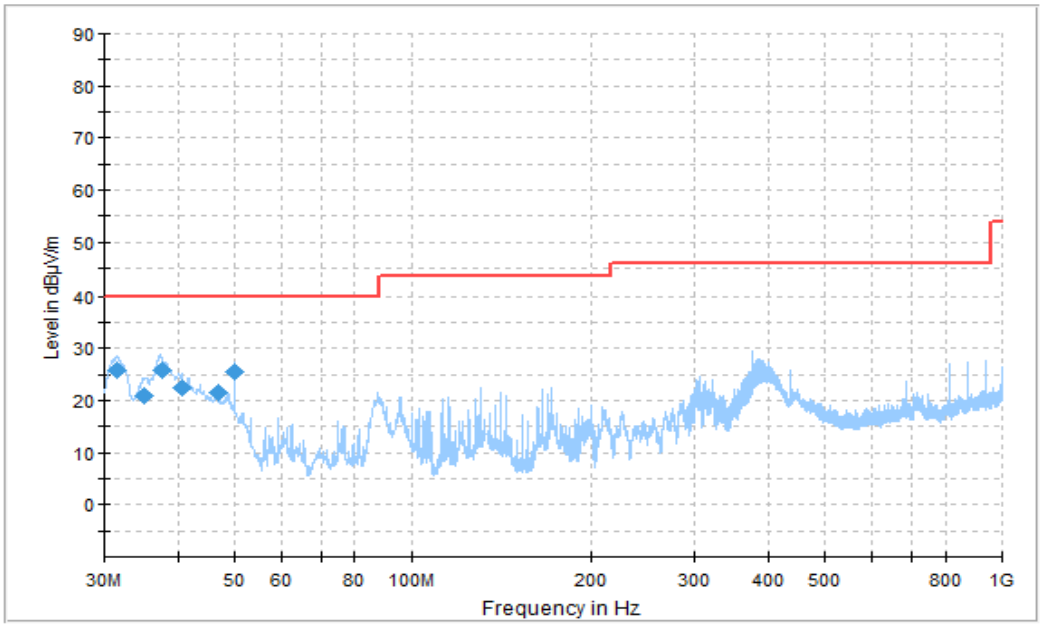

Figure A.1.36. Radiated Emission (LTE receiver Band 26, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
31.635000	25.81	40.00	14.19	V	-25.5	51.31
35.073333	21.02	40.00	18.98	V	-27.2	48.22
37.510556	25.86	40.00	14.14	V	-28.0	53.86
40.622222	22.33	40.00	17.67	V	-29.5	51.83
46.873333	21.49	40.00	18.51	V	-34.3	55.79
49.998889	25.51	40.00	14.49	V	-36.5	62.01

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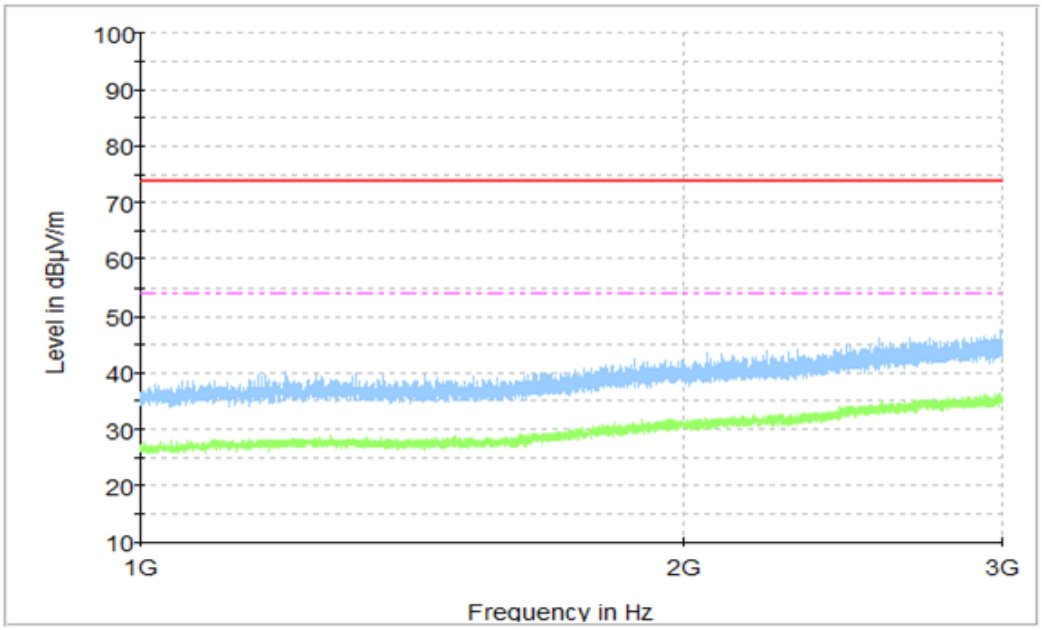

Figure A.1.37. Radiated Emission (LTE receiver Band 26 , 1GHz to 3GHz)

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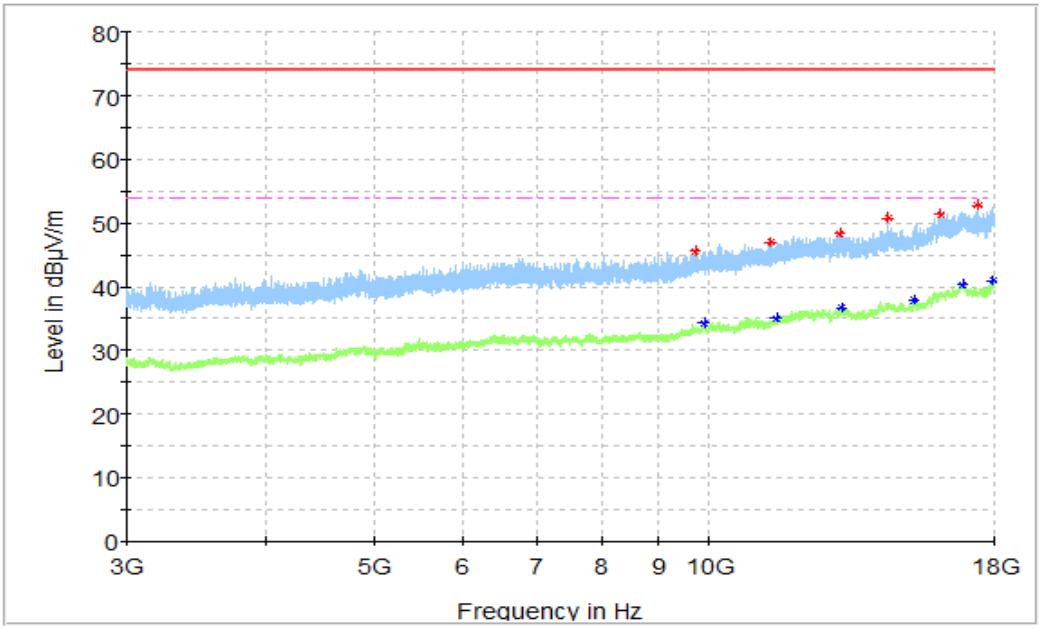

Figure A.1.38. Radiated Emission (LTE receiver Band 26, 3GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
9711.500000	45.53	74.00	28.47	H	4.7	40.83
11372.000000	46.89	74.00	27.11	H	6.6	40.29
13115.500000	48.33	74.00	25.67	V	9.4	38.93
14473.000000	50.81	74.00	23.19	H	11.6	39.21
16118.000000	51.37	74.00	22.63	H	14.8	36.57
17443.000000	52.80	74.00	21.20	H	15.8	37.00

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
9883.000000	34.20	54.00	19.80	V	5.4	28.80
11490.000000	35.05	54.00	18.95	H	7.0	28.05
13156.000000	36.59	54.00	17.41	H	9.7	26.89
15285.500000	37.80	54.00	16.20	H	12.3	25.50
16885.000000	40.26	54.00	13.74	V	16.1	24.16
17950.500000	40.98	54.00	13.02	V	17.2	23.78

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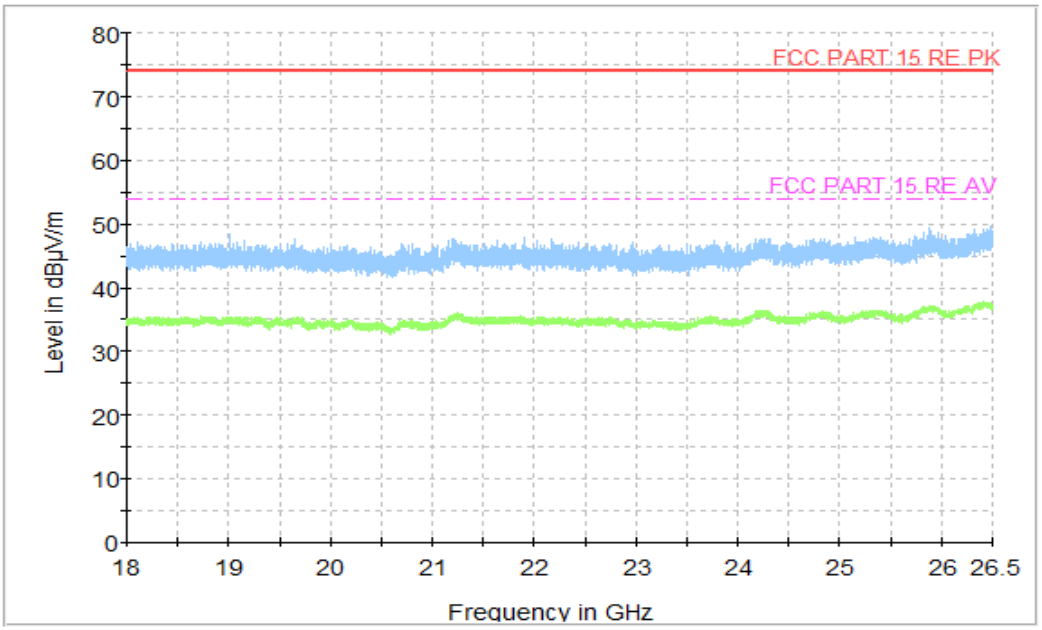

Figure A.1.39. Radiated Emission ((LTE receiver Band 26 , 18GHz to 26.5GHz)

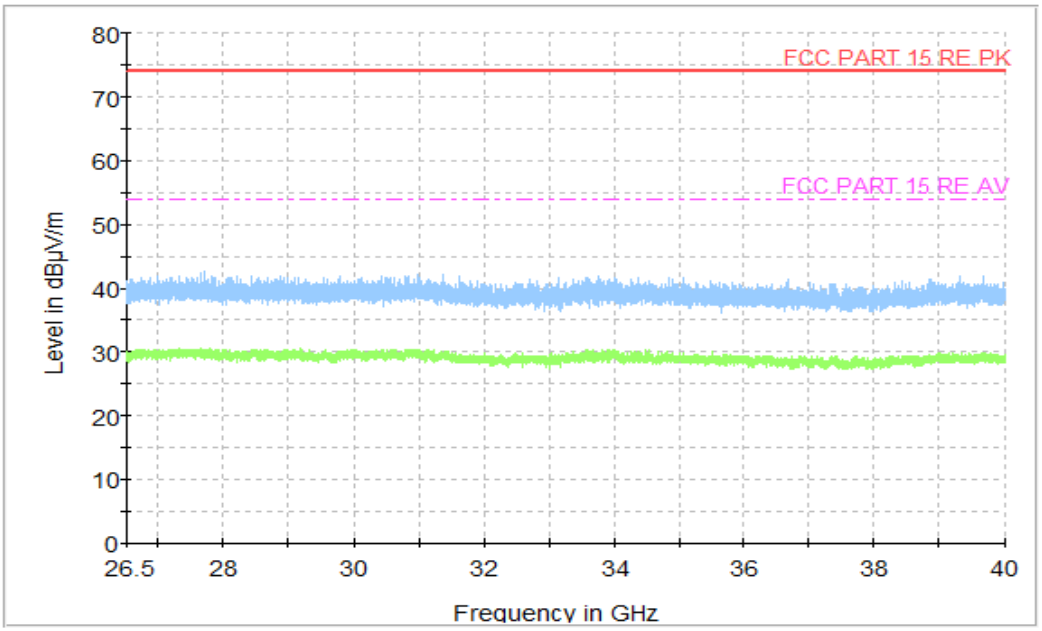

Figure A.1.40. Radiated Emission ((LTE receiver Band 26 , 26.5GHz to 40GHz)

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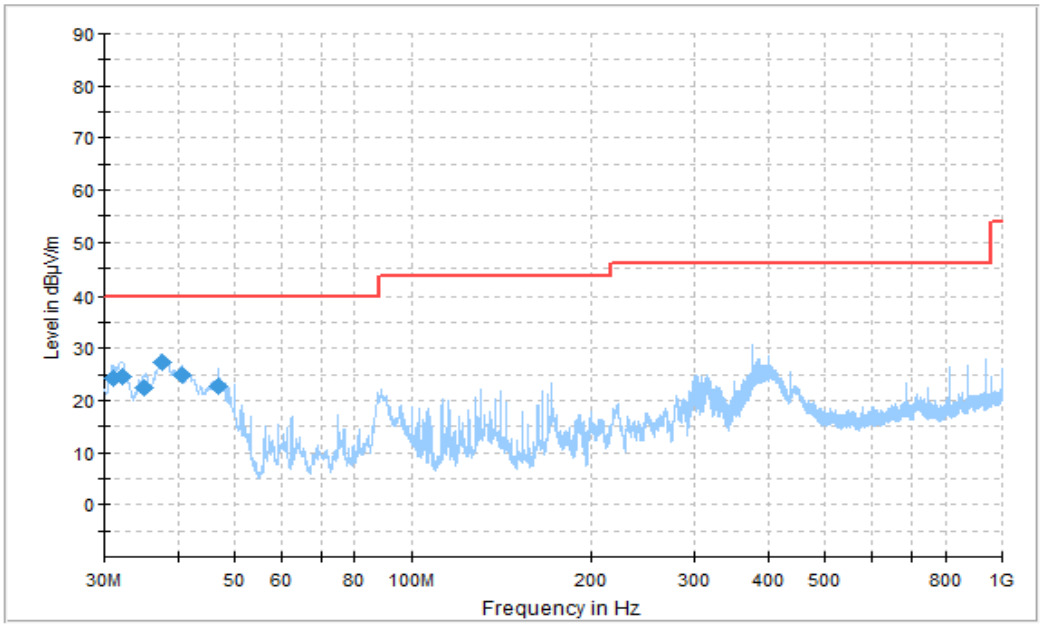

Figure A.1.41. Radiated Emission (LTE receiver Band 71, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
31.123889	24.15	40.00	15.85	V	-25.2	49.35
32.123333	24.55	40.00	15.45	V	-25.7	50.25
35.021111	22.44	40.00	17.56	V	-27.2	49.64
37.510556	27.24	40.00	12.76	V	-28.0	55.24
40.610000	24.99	40.00	15.01	V	-29.5	54.49
46.887222	22.87	40.00	17.13	V	-34.3	57.17

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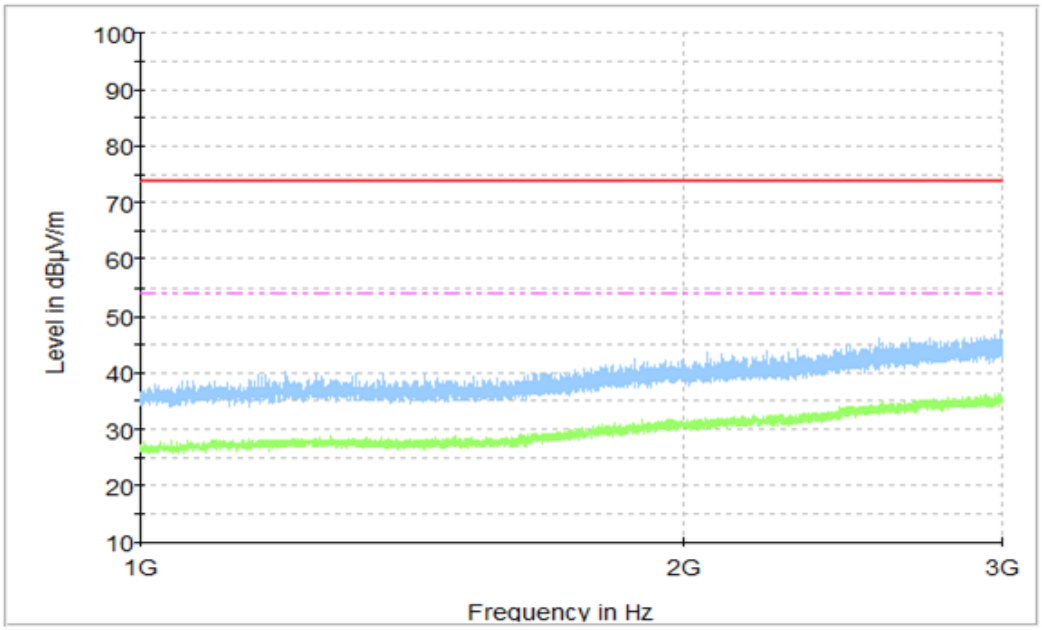

Figure A.1.42. Radiated Emission (LTE receiver Band 71 , 1GHz to 3GHz)

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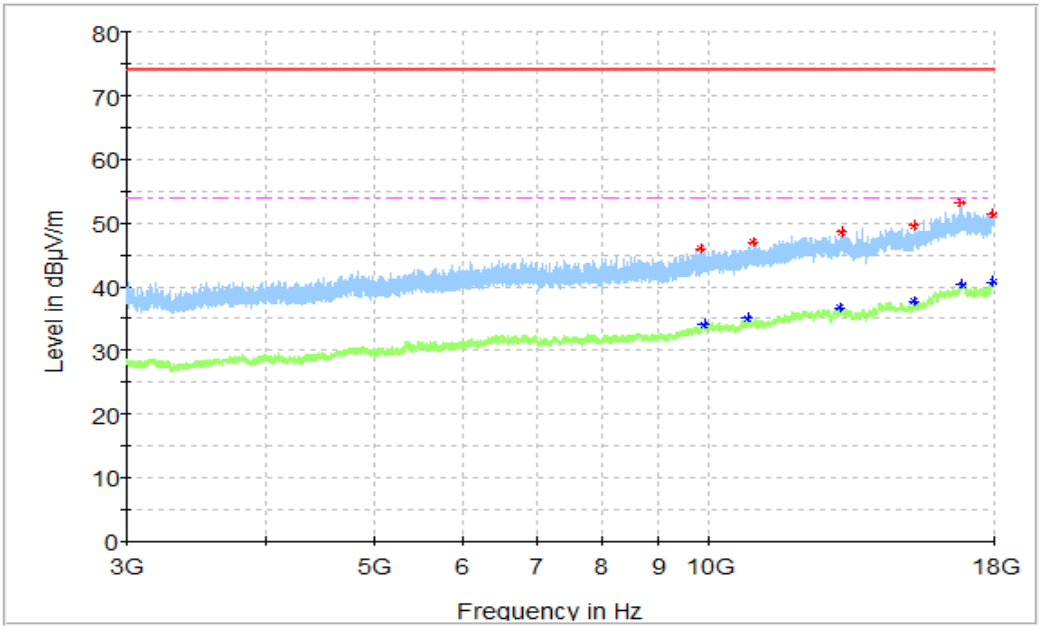

Figure A.1.43. Radiated Emission (LTE receiver Band 71, 3GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
9849.000000	46.00	74.00	28.00	V	5.3	40.70
10971.500000	46.99	74.00	27.01	V	6.5	40.49
13153.500000	48.64	74.00	25.36	H	9.7	38.94
15269.500000	49.62	74.00	24.38	V	12.1	37.52
16790.500000	53.19	74.00	20.81	V	15.8	37.39
17958.000000	51.37	74.00	22.63	H	16.9	34.47

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
9884.500000	33.99	54.00	20.01	V	5.3	28.69
10821.500000	35.09	54.00	18.91	H	6.5	28.59
13097.500000	36.69	54.00	17.31	V	9.8	26.89
15287.500000	37.71	54.00	16.29	H	12.3	25.41
16851.500000	40.30	54.00	13.70	H	16.0	24.3
17956.000000	40.80	54.00	13.20	V	17.0	23.80

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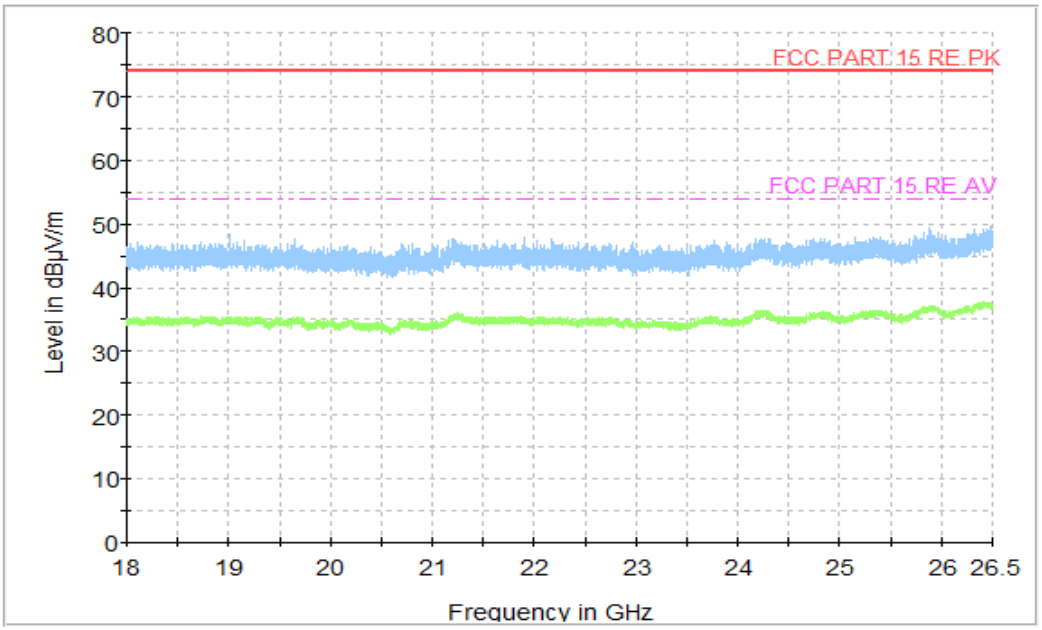

Figure A.1.44. Radiated Emission (LTE receiver Band 71 , 18GHz to 26.5GHz)

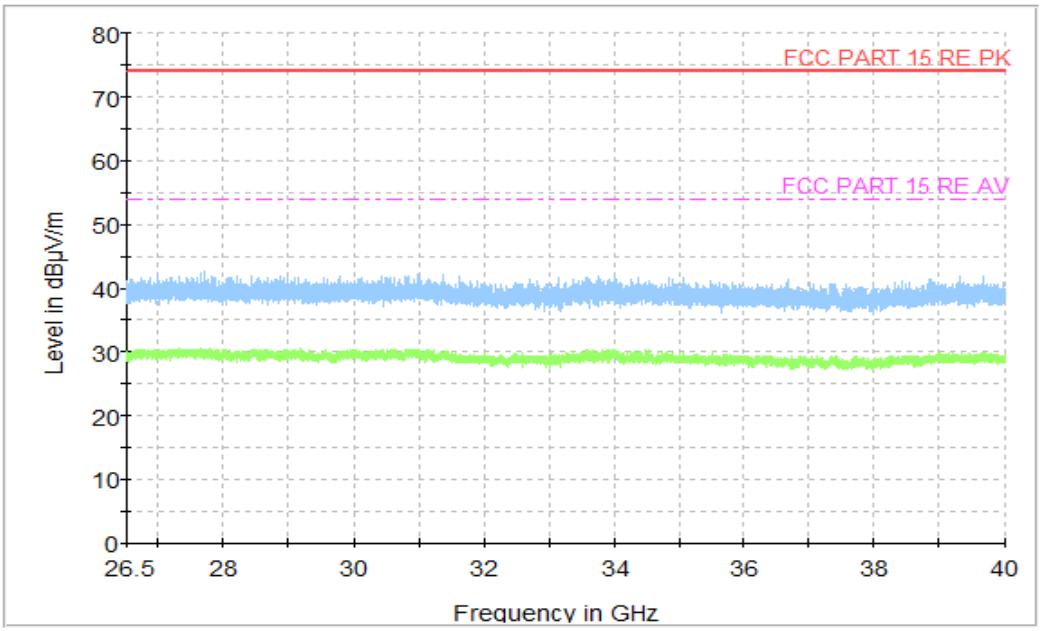

Figure A.1.45. Radiated Emission ((LTE receiver Band 71 , 26.5GHz to 40GHz)

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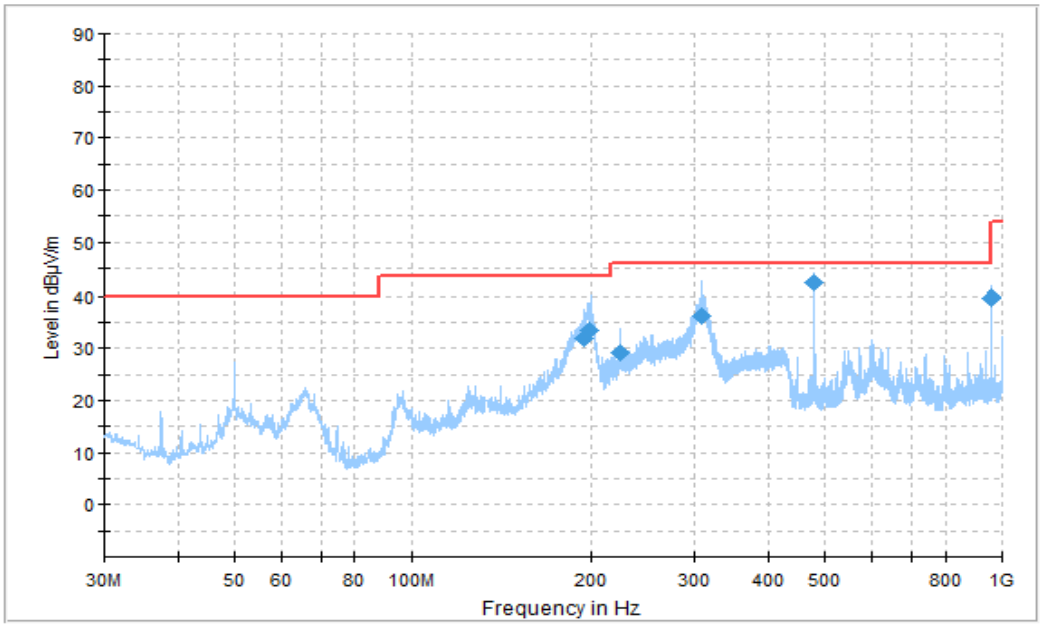

Figure A.1.46. Radiated Emission (Data Transfer: TF TO PC, 30MHz to 1GHz)

Final_Results

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
195.106111	31.90	43.50	11.60	H	-33.3	65.20
199.342222	33.39	43.50	10.11	H	-33.0	66.39
224.449444	29.23	46.00	16.77	H	-32.4	61.63
308.788889	36.22	46.00	9.78	H	-29.2	65.42
479.992222	42.42	46.00	3.58	H	-23.8	66.22
960.034444	39.42	54.00	14.58	H	-16.3	55.72

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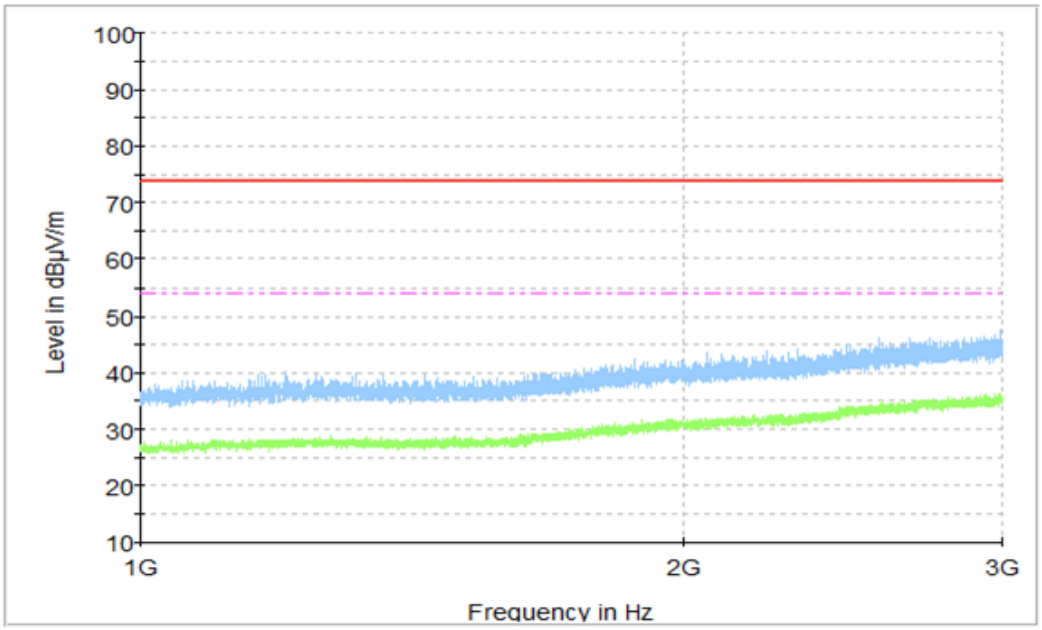

Figure A.1.47. Radiated Emission (Data Transfer: TF TO PC , 1GHz to 3GHz)

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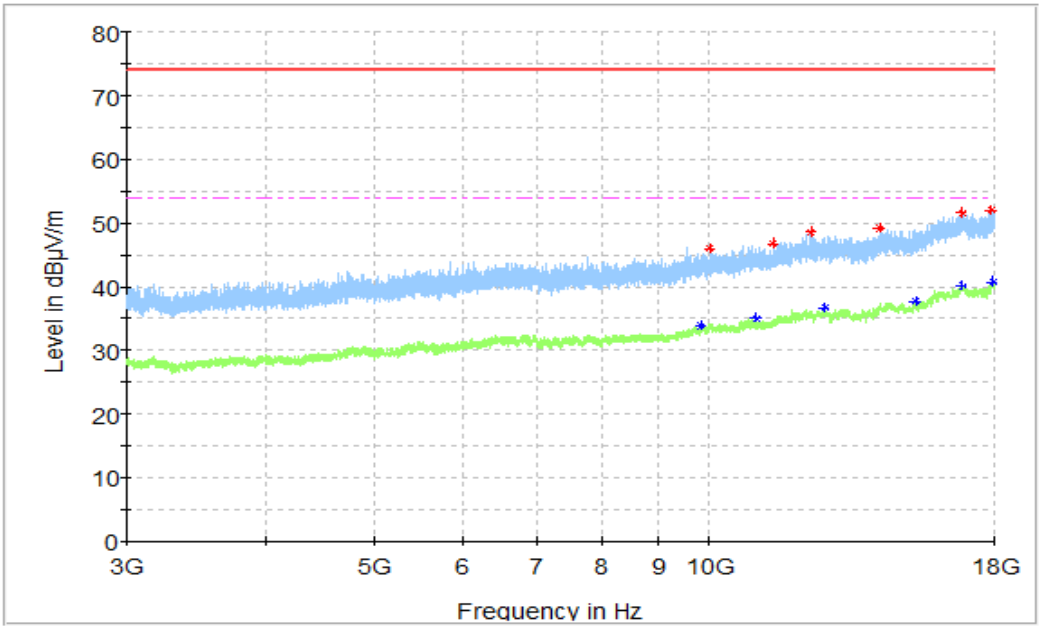

Figure A.1.48. Radiated Emission (Data Transfer:TF TO PC, 3GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
10028.500000	45.94	74.00	28.06	H	5.4	40.54
11418.000000	46.74	74.00	27.26	H	6.6	40.14
12364.000000	48.49	74.00	25.51	V	8.2	40.29
14222.500000	49.08	74.00	24.92	H	11.7	37.38
16866.500000	51.54	74.00	22.46	H	15.8	35.74
17913.500000	52.00	74.00	22.00	V	17.2	34.80

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
9851.500000	33.91	54.00	20.09	V	5.4	28.51
11007.000000	35.07	54.00	18.93	V	6.6	28.47
12672.500000	36.68	54.00	17.32	H	9.0	27.68
15326.500000	37.75	54.00	16.25	H	12.3	25.45
16856.500000	40.01	54.00	13.99	V	15.9	24.11
17946.000000	40.73	54.00	13.27	V	17.3	23.43

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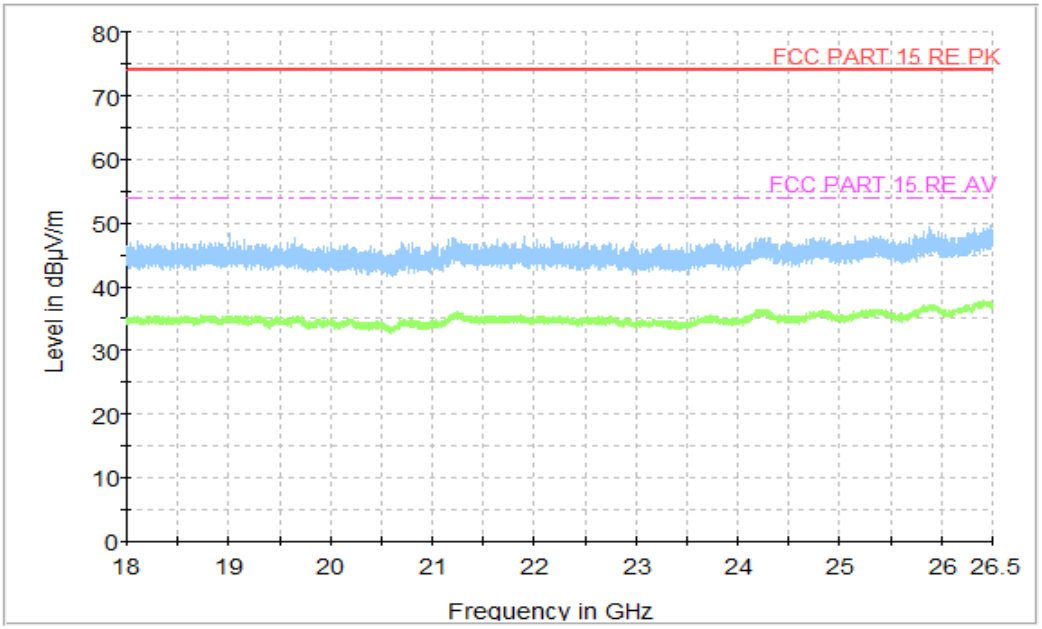

Figure A.1.49. Radiated Emission (Data Transfer:TF TO PC, 18GHz to 26.5GHz)

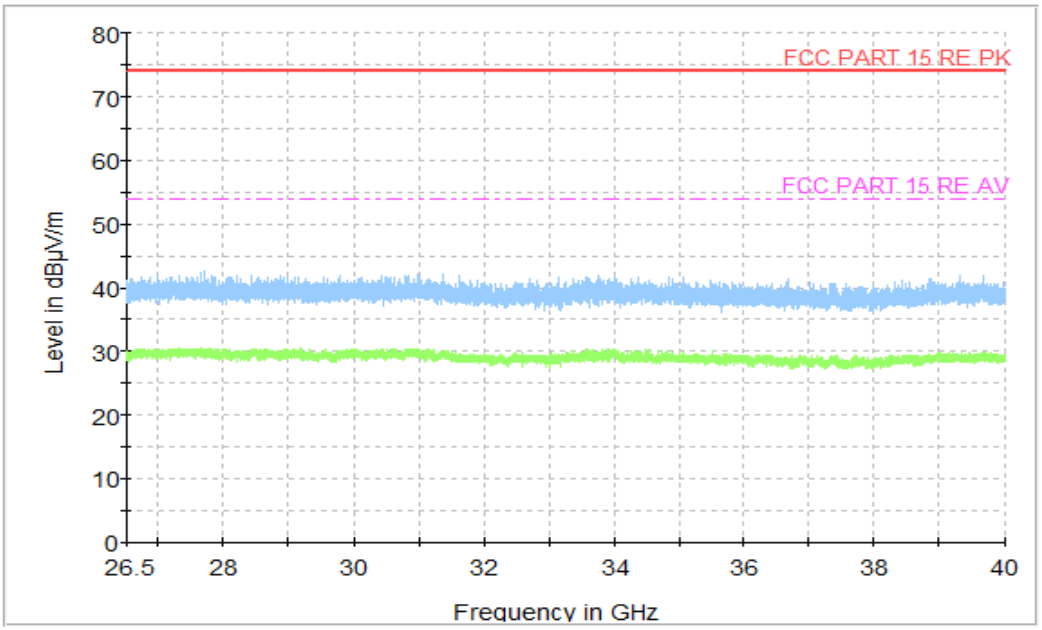

Figure A.1.50. Radiated Emission (Data Transfer:TF TO PC , 26.5GHz to 40GHz)

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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.

FM receiver: The EUT is connected to a charger for charging. The EUT is synchronized to a FM signal generator. The EUT is keeping on demodulating the FM signal and outputting the audio signal through the headset.

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 (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		

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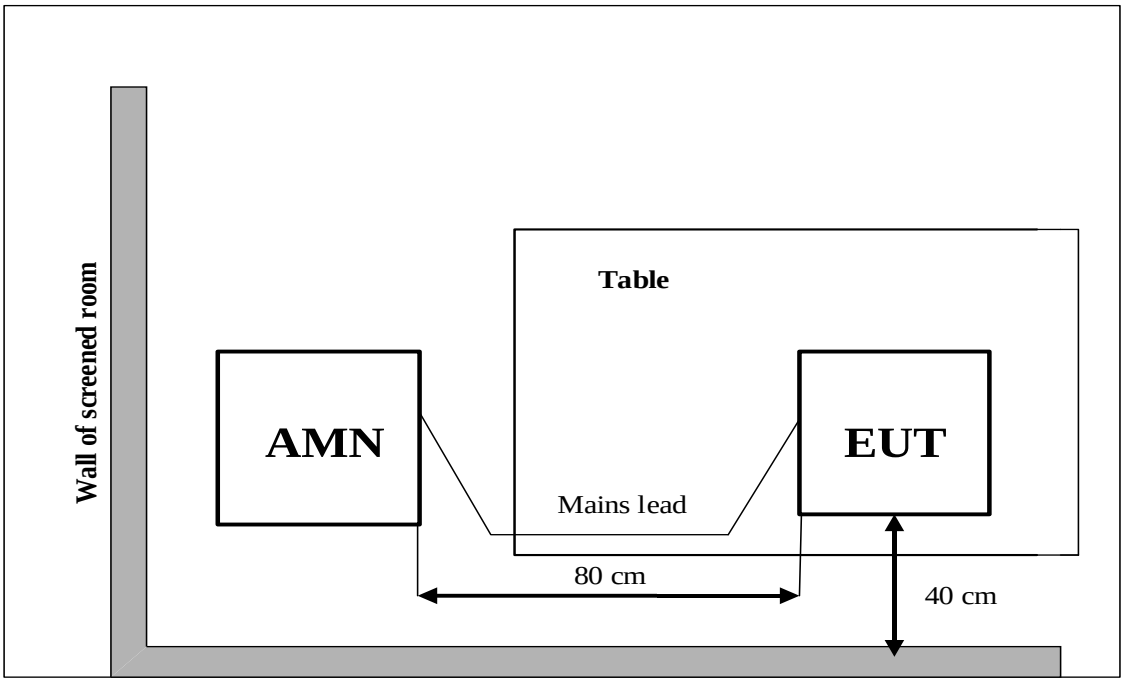
A.2.4Test set-up:



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) UT04aa/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.				

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Video Player

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV) UT04aa/Set.2	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.				

FM receiver

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV) UT04aa/Set.3	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.				

Data Transfer

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV) UT04aa/Set.2	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.				

Camera

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV) UT04aa/Set.1	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.				

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Video Player

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV) UT04aa/Set.1	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.				

FM receiver

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV) UT04aa/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.				

Data Transfer

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV) UT04aa/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.				

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AC Input Port/ Voltage: 120V/60Hz

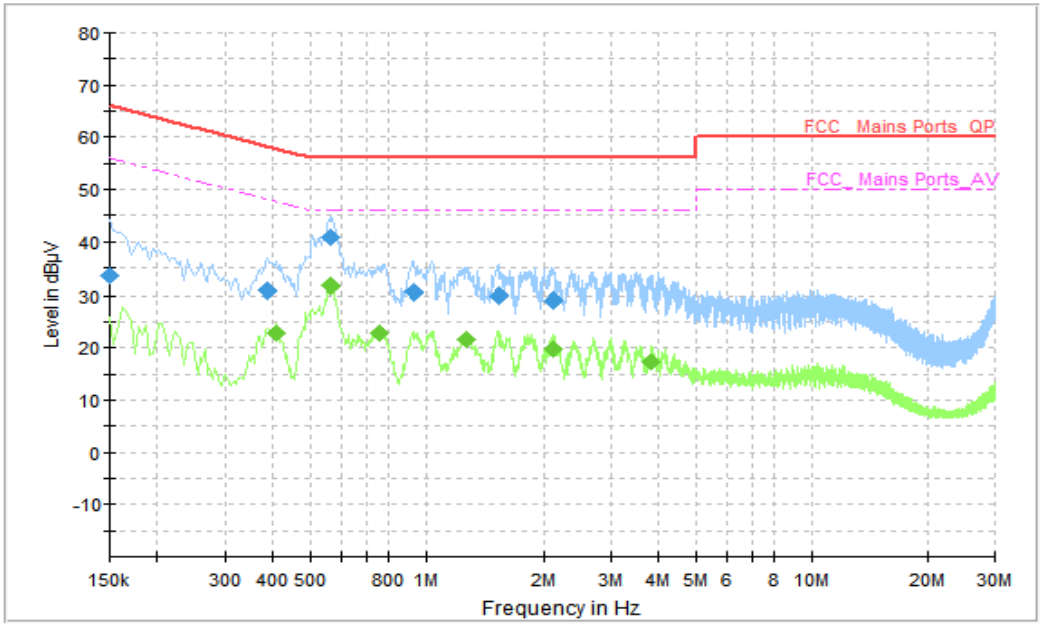

Figure A.2.1. Conducted Emission(Camera)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.150000	33.55	66.00	32.45	N	10	23.55
0.386000	30.82	58.15	27.33	N	10	20.82
0.566000	40.75	56.00	15.25	N	10	30.75
0.934000	30.44	56.00	25.56	N	10	20.44
1.530000	29.74	56.00	26.26	N	10	22.74
2.122000	29.08	56.00	26.92	N	10	22.08

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.406000	22.82	47.73	24.91	N	10	12.82
0.566000	31.67	46.00	14.33	N	10	21.67
0.758000	22.71	46.00	23.29	N	10	12.71
1.270000	21.60	46.00	24.40	N	10	11.60
2.126000	19.65	46.00	26.35	N	10	12.65
3.822000	17.46	46.00	28.54	N	10	10.46

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AC Input Port/ Voltage: 120V/60Hz

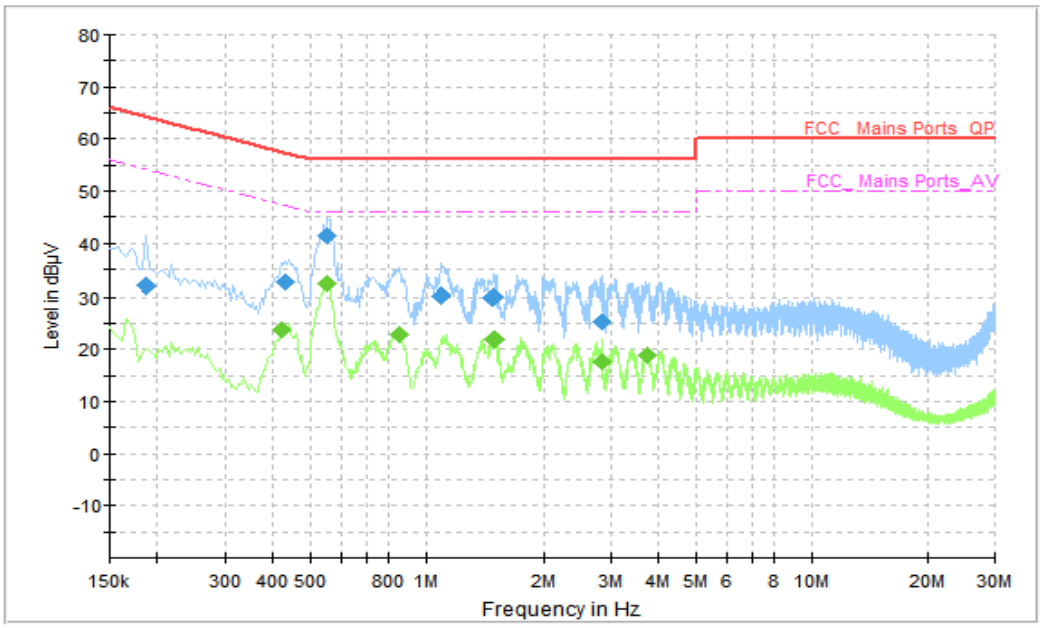

Figure A.2.2. Conducted Emission(Video Player)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.186000	32.07	64.21	32.15	N	10	22.07
0.430000	32.56	57.25	24.69	N	10	22.56
0.554000	41.47	56.00	14.53	N	10	31.47
1.090000	30.16	56.00	25.84	N	10	20.16
1.490000	29.95	56.00	26.05	N	10	19.95
2.846000	25.34	56.00	30.66	N	10	15.34

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.422000	23.80	47.41	23.61	N	10	13.80
0.554000	32.32	46.00	13.68	N	10	22.32
0.854000	22.76	46.00	23.24	N	10	12.76
1.498000	21.97	46.00	24.03	N	10	11.97
2.842000	17.60	46.00	28.40	N	10	7.6
3.714000	18.92	46.00	27.08	N	10	8.92

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AC Input Port/ Voltage: 120V/60Hz

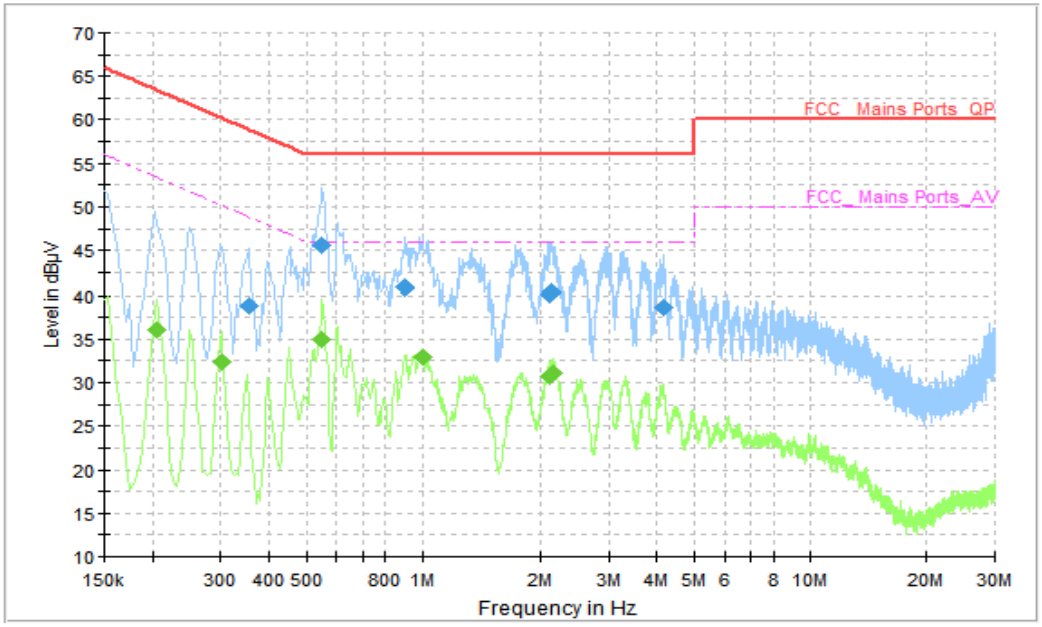

Figure A.2.3. Conducted Emission(FM receiver)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.354000	38.82	58.87	20.05	L1	10	28.82
0.550000	45.58	56.00	10.42	N	10	35.58
0.902000	40.83	56.00	15.17	N	10	30.83
2.102000	40.11	56.00	15.89	N	10	30.11
2.134000	40.35	56.00	15.65	N	10	30.35
4.142000	38.57	56.00	17.43	N	10	28.57

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.206000	35.98	53.37	17.39	N	10	25.98
0.302000	32.32	50.19	17.87	L1	10	22.32
0.550000	34.88	46.00	11.12	N	10	24.88
1.002000	32.96	46.00	13.04	N	10	22.96
2.118000	30.75	46.00	15.25	N	10	20.75

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2.162000	**31.19**	**46.00**	**14.81**	**N**	10	21.19

AC Input Port/ Voltage: 120V/60Hz

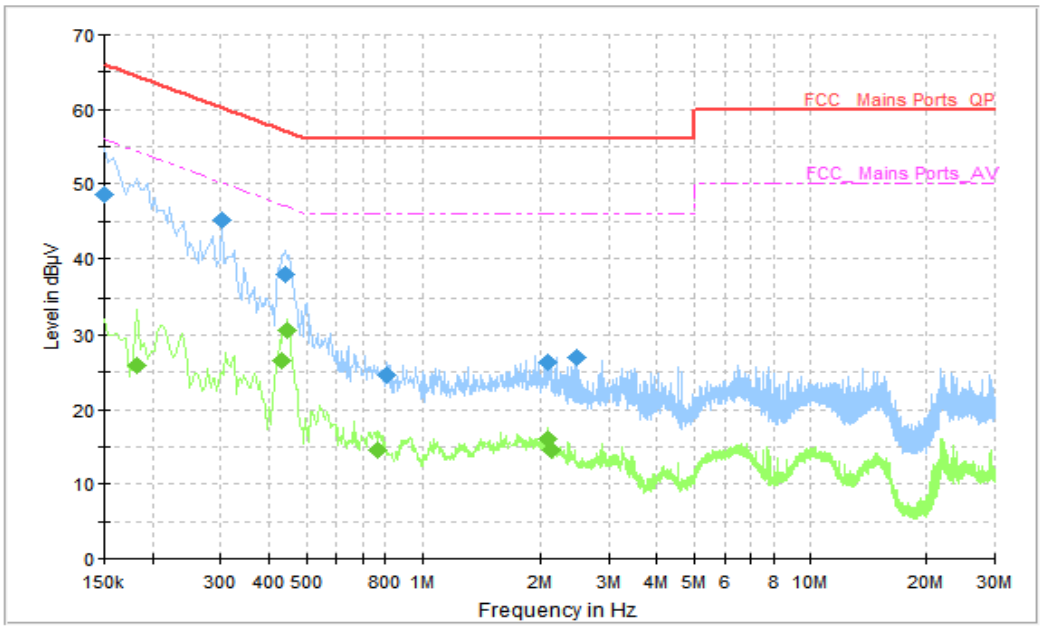

Figure A.2.4. Conducted Emission(Data Transfer)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.150000	48.59	66.00	17.41	N	10	38.59
0.302000	45.10	60.19	15.09	L1	10	35.1
0.442000	37.80	57.02	19.22	N	10	27.80
0.810000	24.71	56.00	31.29	L1	10	14.71
2.078000	26.38	56.00	31.62	N	10	16.38
2.490000	27.02	56.00	28.98	N	10	17.02

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.182000	25.98	54.39	28.42	L1	10	15.98
0.430000	26.59	47.25	20.67	N	10	16.59
0.446000	30.59	46.95	16.36	N	10	20.59
0.766000	14.55	46.00	31.45	N	10	4.55
2.086000	16.03	46.00	29.97	N	10	6.03
2.126000	14.55	46.00	31.45	N	10	4.55

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AC Input Port/ Voltage: 240V/60Hz

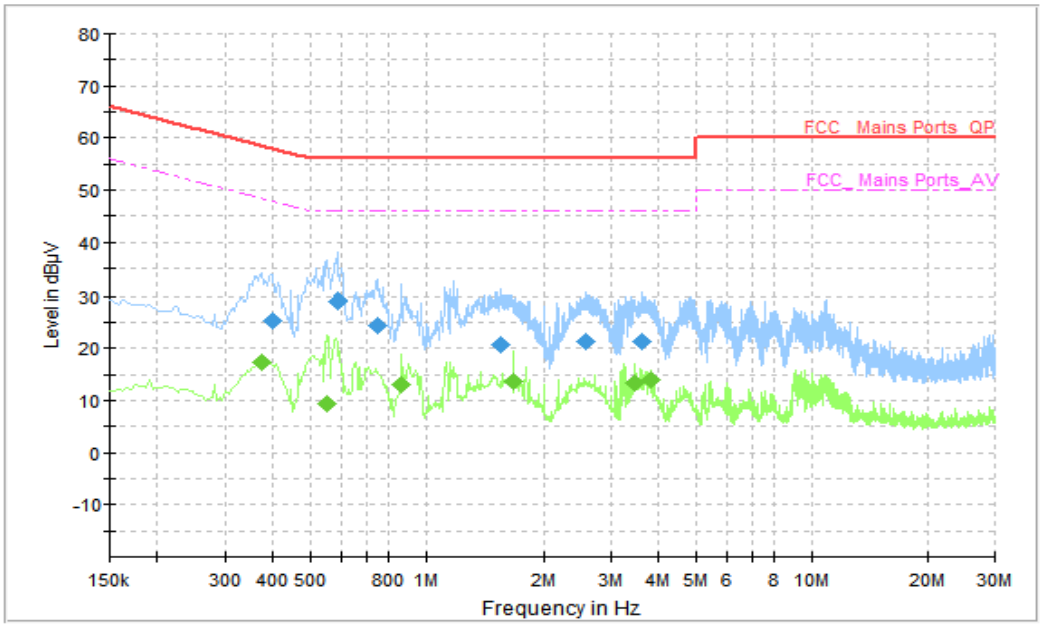

Figure A.2.5. Conducted Emission(Camera)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.398000	25.30	57.90	32.59	L1	10	15.30
0.586000	29.01	56.00	26.99	L1	10	19.01
0.750000	24.22	56.00	31.78	L1	10	14.22
1.550000	20.82	56.00	35.18	L1	10	10.82
2.582000	21.35	56.00	34.65	L1	10	11.35
3.618000	21.38	56.00	34.62	L1	10	11.38

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.374000	17.38	48.41	31.03	N	10	7.38
0.550000	9.49	46.00	36.51	L1	10	-0.51
0.866000	12.95	46.00	33.05	N	10	2.95
1.670000	13.51	46.00	32.49	N	10	3.51
3.470000	13.42	46.00	32.58	N	10	3.42
3.802000	13.98	46.00	32.02	N	10	3.98

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AC Input Port/ Voltage: 240V/60Hz

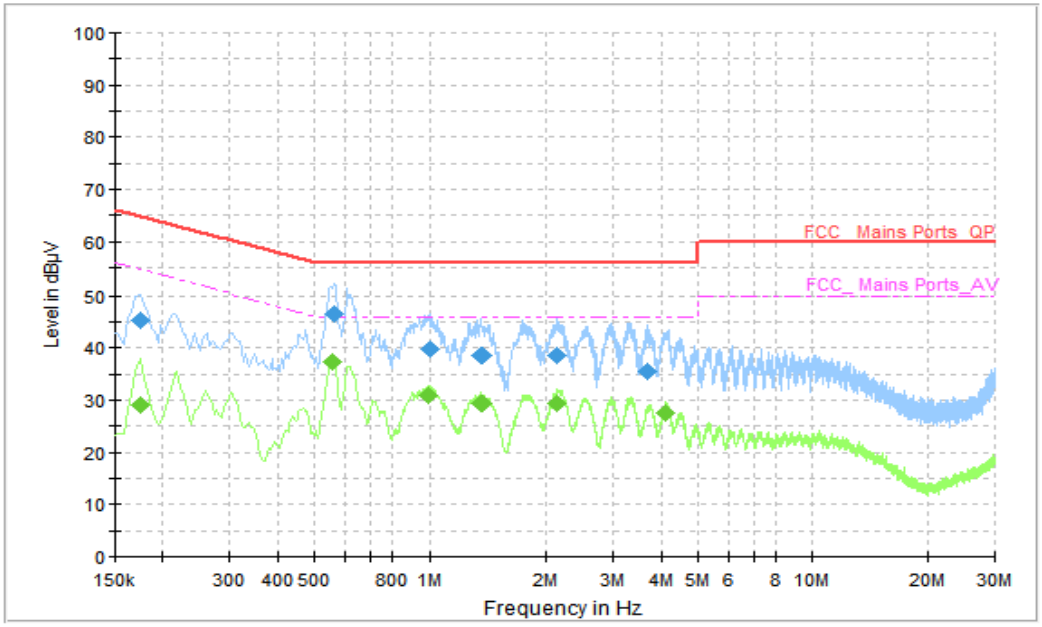

Figure A.2.6. Conducted Emission(Video Player)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.174000	45.36	64.77	19.41	N	10	35.36
0.562000	46.48	56.00	9.52	N	10	36.48
1.002000	39.88	56.00	16.12	N	10	29.88
1.358000	38.58	56.00	17.42	N	10	28.58
2.138000	38.41	56.00	17.59	N	10	28.41
3.678000	35.38	56.00	20.62	N	10	25.38

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.174000	29.04	54.77	25.73	N	10	19.04
0.554000	37.35	46.00	8.65	N	10	27.35
0.990000	30.83	46.00	15.17	N	10	20.83
1.358000	29.35	46.00	16.65	N	10	19.35
2.138000	29.31	46.00	16.69	N	10	19.31
4.122000	27.41	46.00	18.59	N	10	17.41

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AC Input Port/ Voltage:240 V/60Hz

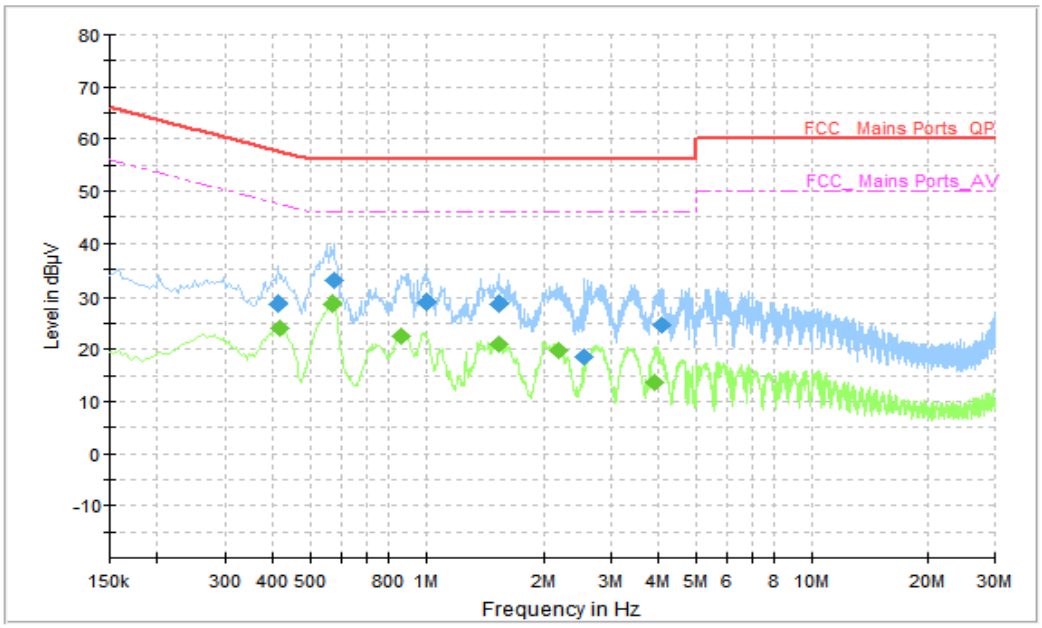

Figure A.2.7. Conducted Emission(FM receiver)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.410000	28.51	57.65	29.14	L1	10	18.51
0.574000	32.96	56.00	23.04	L1	10	22.96
1.002000	28.98	56.00	27.02	L1	10	18.98
1.530000	28.50	56.00	27.50	L1	10	18.50
2.550000	18.61	56.00	37.39	L1	10	8.61
4.050000	24.74	56.00	31.26	L1	10	14.74

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.418000	24.05	47.49	23.44	N	10	14.05
0.570000	28.77	46.00	17.23	N	10	18.77
0.862000	22.49	46.00	23.51	N	10	12.49
1.526000	20.90	46.00	25.10	N	10	10.90
2.202000	19.77	46.00	26.23	N	10	9.77
6.130000	27.44	50.00	22.56	N	10	17.44

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AC Input Port/ Voltage: 240V/60Hz

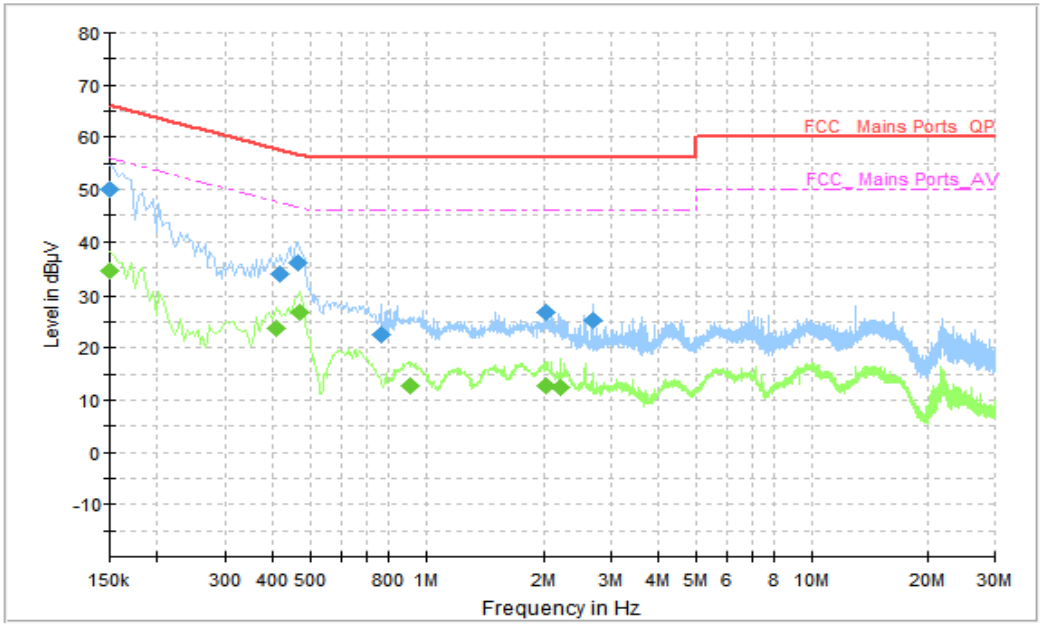

Figure A.2.8. Conducted Emission(Data Transfer)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.150000	50.17	66.00	15.83	N	10	40.17
0.418000	33.84	57.49	23.65	N	10	23.84
0.462000	35.96	56.66	20.70	N	10	25.96
0.762000	22.43	56.00	33.57	L1	10	12.43
2.022000	26.84	56.00	29.16	N	10	16.84
2.682000	25.32	56.00	30.68	L1	10	15.32

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.150000	34.36	56.00	21.64	N	10	24.36
0.406000	23.83	47.73	23.90	N	10	13.83
0.470000	26.87	46.51	19.64	N	10	16.87
0.914000	12.75	46.00	33.25	N	10	2.75
2.026000	12.68	46.00	33.32	N	10	2.68
2.222000	12.52	46.00	33.48	L1	10	2.52

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

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