TEST REPORT

No.I20N01406-EMC

for

TCL Communication Ltd.

Tablet PC

Model Name：9032T

With

Hardware Version: PIO

Software Version: 1A57

FCC ID: 2ACCJB130

Issued Date: 2020-07-22

Designation Number: CN1210

Note:

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

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I20N01406-EMC	Rev.0	1st edition	**2020-06-12**
I20N01406-EMC	Rev.1	Adding the LTE band 12 receiver radiated emission results	**2020-07-22**

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

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1. Summary of Test Report

1.1. Test Items

Description	Tablet PC
Model Name	9032T
Applicant's name	TCL Communication Ltd.
Manufacturer's Name	TCL Communication Ltd.

1.2. Test Standards

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

1.3. Test Result

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

1.4. Testing Location

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

1.5. Project data

Testing Start Date: 2020-05-25 Testing End Date: 2020-07-21

1.6. Signature

Ma Shoujian
(Prepared this test report)

Zhang Yunzhuan
(Reviewed this test report)

Cao Junfei
(Approved this test report)

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2. ClientInformation

2.1. Applicant Information

Company Name:	TCL Communication Ltd.
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E-mail	zhizhou.gong@tcl.com
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2.2. Manufacturer Information

Company Name:	TCL Communication Ltd.
Address:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Contact:	Gong Zhizhou
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Fax	0086-755-36612000-81722

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

3.1. About EUT

Description	Tablet PC
Model Name	9032T
FCC ID	2ACCJB130
Antenna Type	Internal Antenna
Condition of EUT as received	No obvious damage in appearance

This device contains the receivers which tune and operate between 30MHz-960MHz in the following bands:
GSM850MHz, WCDMA Band 5, LTE Band 5, LTE Band 12,LTE Band 17.

Note: Photographs of EUT are shown in ANNEX A of this test report. 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
UT03aa	350583090000119	PIO	1A57	2020-05-25

*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	Cable
AE4	Headset

AE1

Model	TLp040M7
Manufacturer	VEKEN
Capacity	4000mAh
Nominal Voltage	3.85v

AE2-1

Model	UC11US(CBA0058AGAC5)
Manufacturer	PUAN

AE2-2

Model	UC11US(CBA0058AGAC7)
Manufacturer	Chenyang

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AE3-1

Model	CDA0000123C2
Manufacturer	SHENGHUA

AE3-2

Model	CDA0000123C1
Manufacturer	JUWEI

AE4

Model	/
Manufacturer	/

*AE ID is used to identify the test sample in the lab internally.
AE: ancillary equipment
Note: AE4 is just for testing

3.4. EUT set-ups

EUT set-up No.	Combination of EUT and AE	Remarks
Set.1	UT03aa +AE1+AE2-1+AE3-1	
Set.2	UT03aa +AE1+AE2-2+AE3-2	
Set.3	UT03aa +AE1+AE2-1+AE3-1+AE4	
Set.4	UT03aa +AE1+AE2-2+AE3-2+AE4	
Set.5	UT03aa +AE1+AE3-1+PC	Data Transfer Mode;
Set.6	UT03aa +AE1+AE3-2+PC	Data Transfer Mode

3.5. General Description

The Equipment Under Test (EUT) is a model of Tablet PC with internal antenna.
It supports GSM 900/850/1800/1900MHz, WCDMA Bands 1/2/4/5/8, and LTE Bands 2/3/4/5/7/8/12/17/28/66.
It has Camera, Video Player, FM Receiver, USB Data Transfer, Bluetooth,Wi-Fi and GNSS functions.
It consists of normal options: Battery, Charger and Data Cable.
Manual and specifications of the EUT were provided to fulfill the test.
Samples (EUT+AE) undergoing test were selected by the Client. Relevant information is provided by the Client.

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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	10-1-2019 Edition
ANSI C63.4	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	2014

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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. = 30 ℃
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 rules	Section in this report	Verdict
1	Radiated Emission	15.109(a)	A.1	P
2	Conducted Emission	15.107(a)	B.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 uncertaint
Radiated Emission	30MHz-1GHz	4.90dB(k=2)
	1GHz-18GHz	4.60dB(k=2)
	18GHz-40GHz	4.10dB(k=2)
Conducted Emission	150kHz-30MHz	3.00dB(k=2)

8. Test Facilities Utilized

NO.	NAME	TYPE	SERIES NUMBER	PRODUCER	CALDUE DATE	CAL PERIOD
1.	Test Receiver	ESR7	101676	R&S	2020.11.27	1 year
2.	Test Receiver	ESCI	100701	R&S	2020.08.10	1 year
3.	Spectrum Analyzer	FSV40	101192	R&S	2021.01.14	1 year
4.	BiLog Antenna	3142E	00224831	ETS-Lindgren	2021.05.17	3 years
5.	LISN	ENV216	102067	R&S	2021.07.16	1 year
6.	Horn Antenna	3117	00066577	ETS-Lindgren	2022.04.02	3 years
7.	Horn Antenna	QSH-SL-18-26-S-20	17013	Q-par	2023.01.06	3 years
8.	Horn Antenna	QSH-SL-8-26-40-K-20	17014	Q-par	2023.01.06	3 years
9.	Chamber	FACT3-2.0	1285	ETS-Lindgren	2021.07.19	2 years
10.	Software	EMC32	V10.01.00	R&S	/	/
11.	PC	ThinkPad T480	PF-13LW0C	Lenovo	/	/
12.	Printer	P1008	VNF6C12491	HP	/	/
13.	Mouse	MOEUUOA	44NY517	Lenovo	/	/

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ANNEX A: MEASUREMENT RESULTS

A.1 Radiated Emission (§15.109(a))

Reference

FCC: CFR Part 15.109(a)

A.1.1 Method of measurement

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

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

A.1.2 EUT Operating Mode:

FM Mode: The EUT is connected to a charger for charging and open FM function.

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

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

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

All equipment is placed on the test table top and arranged in a typical configuration in accordance with ANSI C63.4-2014 and manipulated to obtain worst case emissions.

A.1.3 Measurement Limit

Limit from CFR 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.

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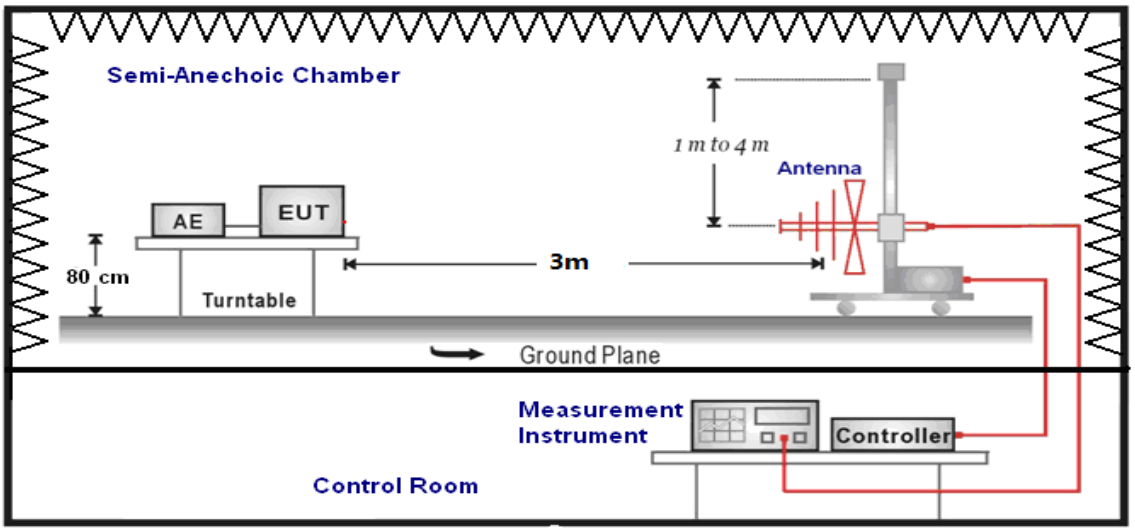
A.1.4 Test Condition

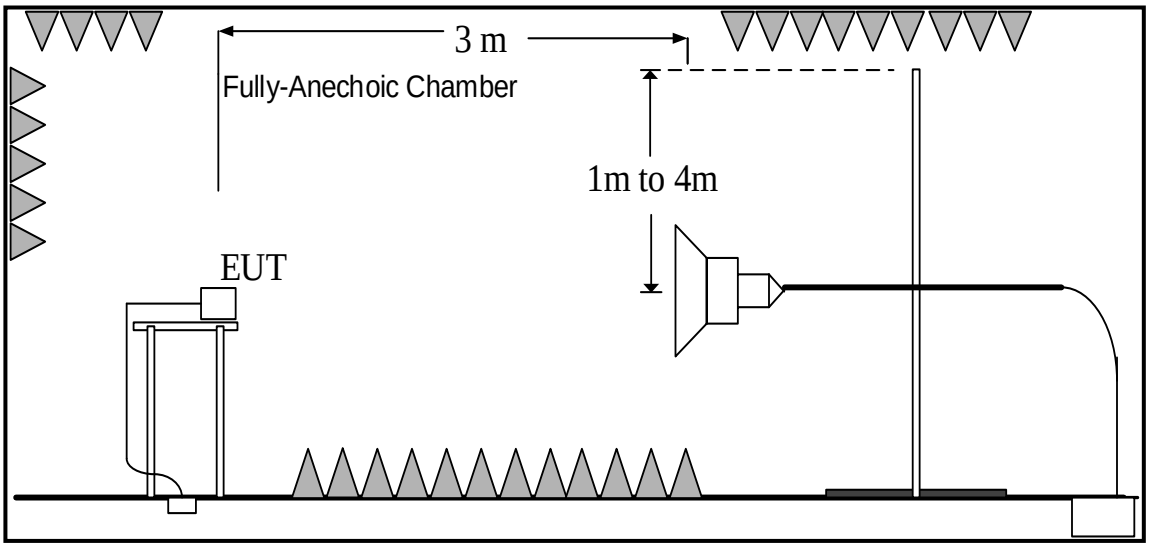
Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	120kHz (IF bandwidth)	5
Above 1000	1MHz/3MHz	15

A.1.5 Test set-up:

30MHz-1GHz



1GHz-30GHz



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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

Charging and GSM850MHz idle

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) Set.1	Conclusion
30-88	40	See Figure A.1	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) Set.1	Conclusion
1000 to 18000	54	74	See Figure A.2	P
18000 to 26500			See Figure A.3	
26500 to 30000			See Figure A.4	

Charging and WCDMA Band 5 idle

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) Set.1	Conclusion
30-88	40	See Figure A.5	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) Set.1	Conclusion
1000 to 18000	54	74	See Figure A.6	P
18000 to 26500			See Figure A.7	
26500 to 30000			See Figure A.8	

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Charging and LTE Band 5 idle

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) Set.1	Conclusion
30-88	40	See Figure A.9	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) Set.1	Conclusion
1000 to 18000	54	74	See Figure A.10	P
18000 to 26500			See Figure A.11	
26500 to 30000			See Figure A.12	

Charging and LTE Band 12 idle

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) Set.1	Conclusion
30-88	40	See Figure A.13	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) Set.1	Conclusion
1000 to 18000	54	74	See Figure A.14	P
18000 to 26500			See Figure A.15	
26500 to 30000			See Figure A.16	

Charging and LTE Band 12 idle

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) Set.2	Conclusion
30-88	40	See Figure A.17	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) Set.2	Conclusion
1000 to 18000	54	74	See Figure A.18	P
18000 to 26500			See Figure A.19	
26500 to 30000			See Figure A.20	

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Charging and LTE Band 17 idle

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) Set.1	Conclusion
30-88	40	See Figure A.21	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) Set.1	Conclusion
1000 to 18000	54	74	See Figure A.22	P
18000 to 26500			See Figure A.23	
26500 to 30000			See Figure A.24	

Charging and GSM850MHz idle

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) Set.2	Conclusion
30-88	40	See Figure A.25	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) Set.2	Conclusion
1000 to 18000	54	74	See Figure A.26	P
18000 to 26500			See Figure A.27	
26500 to 30000			See Figure A.28	

Charging and WCDMA Band 5 idle

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) Set.2	Conclusion
30-88	40	See Figure A.29	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) Set.2	Conclusion
1000 to 18000	54	74	See Figure A.30	P
18000 to 26500			See Figure A.31	
26500 to 30000			See Figure A.32	

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Charging and LTE Band 5 idle

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) Set.2	Conclusion
30-88	40	See Figure A.33	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) Set.2	Conclusion
1000 to 18000	54	74	See Figure A.34	P
18000 to 26500			See Figure A.35	
26500 to 30000			See Figure A.36	

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Charging and LTE Band 17 idle

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) Set.2	Conclusion
30-88	40	See Figure A.37	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) Set.2	Conclusion
1000 to 18000	54	74	See Figure A.38	P
18000 to 26500			See Figure A.39	
26500 to 30000			See Figure A.40	

Camera Mode

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) Set.1	Conclusion
30-88	40	See Figure A.41	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) Set.1	Conclusion
1000 to 18000	54	74	See Figure A.42	P
18000 to 26500			See Figure A.43	
26500 to 30000			See Figure A.44	

FM Mode

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) Set.3	Conclusion
30-88	40	See Figure A.45	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) Set.3	Conclusion
1000 to 18000	54	74	See Figure A.46	P
18000 to 26500			See Figure A.47	
26500 to 30000			See Figure A.48	

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Video Player Mode

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) Set.1	Conclusion
30-88	40	See Figure A.49	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) Set.1	Conclusion
1000 to 18000	54	74	See Figure A.50	P
18000 to 26500			See Figure A.51	
26500 to 30000			See Figure A.52	

FM Mode

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) Set.4	Conclusion
30-88	40	See Figure A.53	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) Set.4	Conclusion
1000 to 18000	54	74	See Figure A.54	P
18000 to 26500			See Figure A.55	
26500 to 30000			See Figure A.56	

Data Transfer Mode: EUT to PC

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) Set.5	Conclusion
30-88	40	See Figure A.57	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) Set.5	Conclusion
1000 to 18000	54	74	See Figure A.58	P
18000 to 26500			See Figure A.59	
26500 to 30000			See Figure A.60	

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Data Transfer Mode: PC to EUT

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) Set.5	Conclusion
30-88	40	See Figure A.61	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) Set.5	Conclusion
1000 to 18000	54	74	See Figure A.62	P
18000 to 26500			See Figure A.63	
26500 to 30000			See Figure A.64	

Data Transfer Mode: PC to TF Card

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) Set.5	Conclusion
30-88	40	See Figure A.65	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) Set.5	Conclusion
1000 to 18000	54	74	See Figure A.66	P
18000 to 26500			See Figure A.67	
26500 to 30000			See Figure A.68	

Data Transfer Mode: TF Card to PC

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m) Set.5	Conclusion
30-88	40	See Figure A.69	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m) Set.5	Conclusion
1000 to 18000	54	74	See Figure A.70	P
18000 to 26500			See Figure A.71	
26500 to 30000			See Figure A.72	

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Data Transfer Mode: EUT to PC Card

Frequency range (MHz)	Quasi-Peak Limit (dBμV/m)	Result (dBμV/m)	Conclusion
		Set.6	
30-88	40	See Figure A.73	P
88-216	44		
216-960	46		
960-1000	54		

Frequency range (MHz)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)	Result (dBμV/m)	Conclusion
			Set.6	
1000 to 18000	54	74	See Figure A.74	P
18000 to 26500			See Figure A.75	
26500 to 30000			See Figure A.76	

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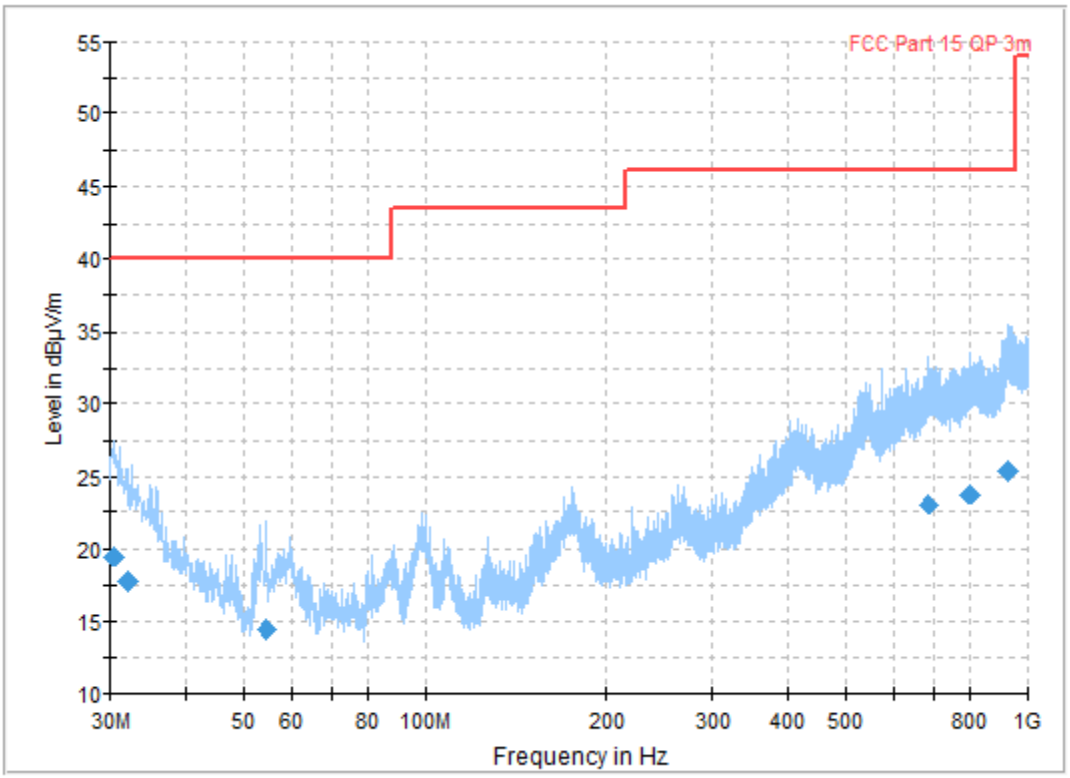

Figure A.1 Radiated Emission (Set.1, Charging and GSM850MHz idle, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
30.480000	19.52	40.00	20.48	V	-6.4	25.92
31.998889	17.71	40.00	22.29	V	-9	26.71
54.357222	14.43	43.50	25.57	V	-12.5	26.93
687.630000	23.02	46.00	22.98	H	-3.4	26.42
801.371111	23.80	46.00	22.2	H	-1.8	25.6
927.925556	25.29	46.00	20.71	V	0.7	24.59

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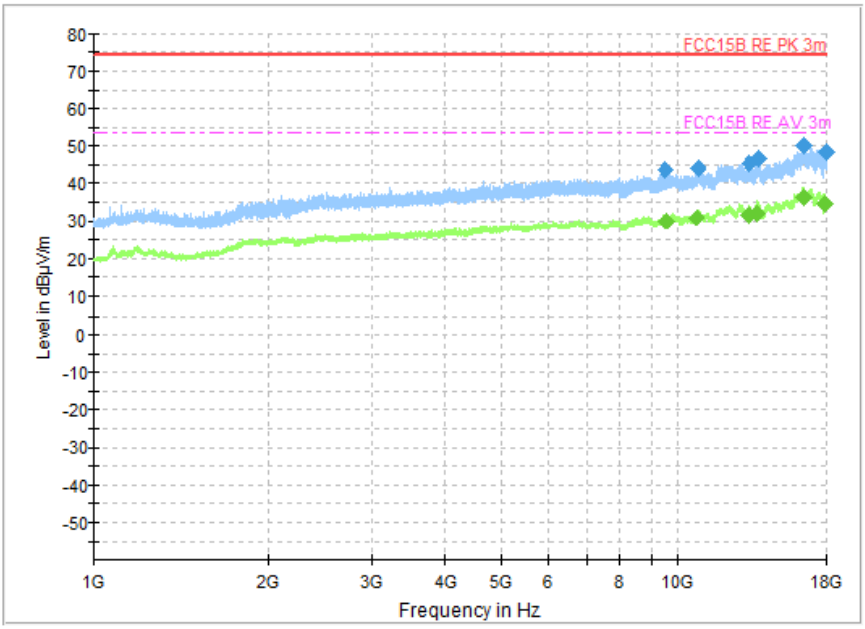

Figure A.2 Radiated Emission (Set.1, Charging and GSM850MHz idle, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
9537.000000	43.66	74	30.34	H	6.5	37.16
10834.000000	44.44	74	29.56	V	7.1	37.34
13285.500000	45.57	74	28.43	V	8.3	37.27
13768.000000	46.78	74	27.22	H	9.0	37.78
16484.000000	49.94	74	24.06	V	14.7	35.24
17990.500000	48.48	74	25.52	V	12.8	35.68

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
9599.000000	30.05	54	23.95	V	6.5	23.55
10824.000000	30.78	54	23.22	H	7.1	23.68
13267.000000	31.74	54	22.26	H	8.2	23.54
13697.500000	32.38	54	21.62	V	8.9	23.48
16475.500000	36.50	54	17.50	V	14.7	21.8
17894.500000	34.67	54	19.33	V	13.3	21.37

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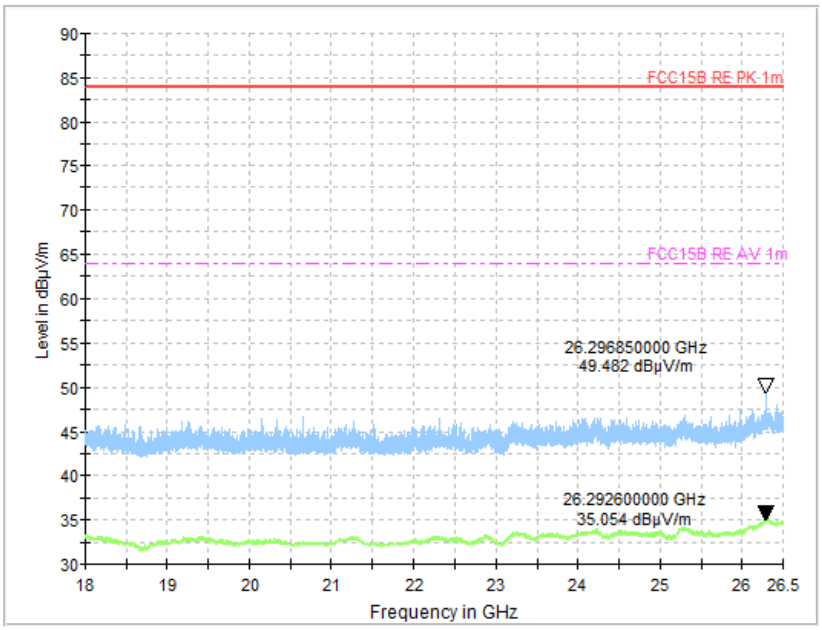

Figure A.3 Radiated Emission (Set.1, Charging and GSM850MHz idle , 18GHz to 26.5GHz)

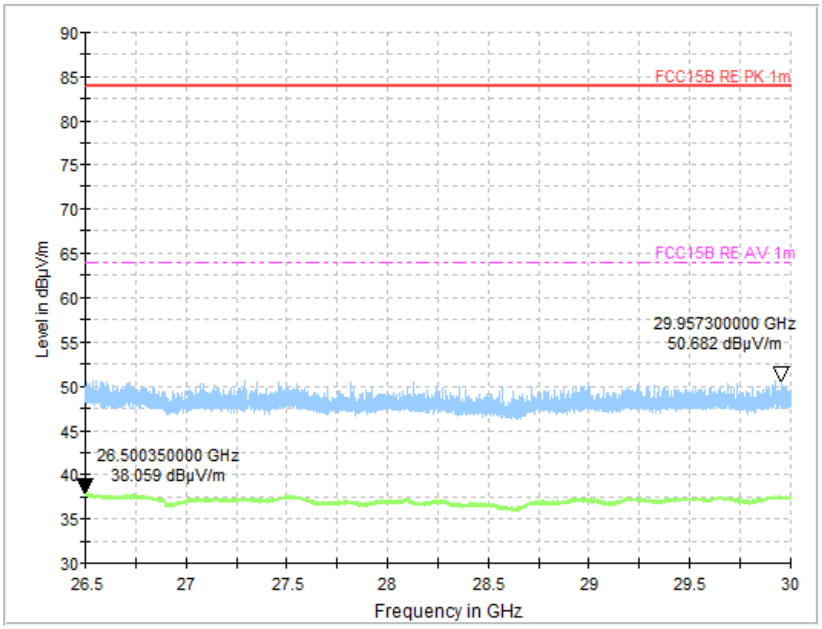

Figure A.4 Radiated Emission (Set.1, Charging and GSM850MHz idle , 26.5GHz to 30GHz)

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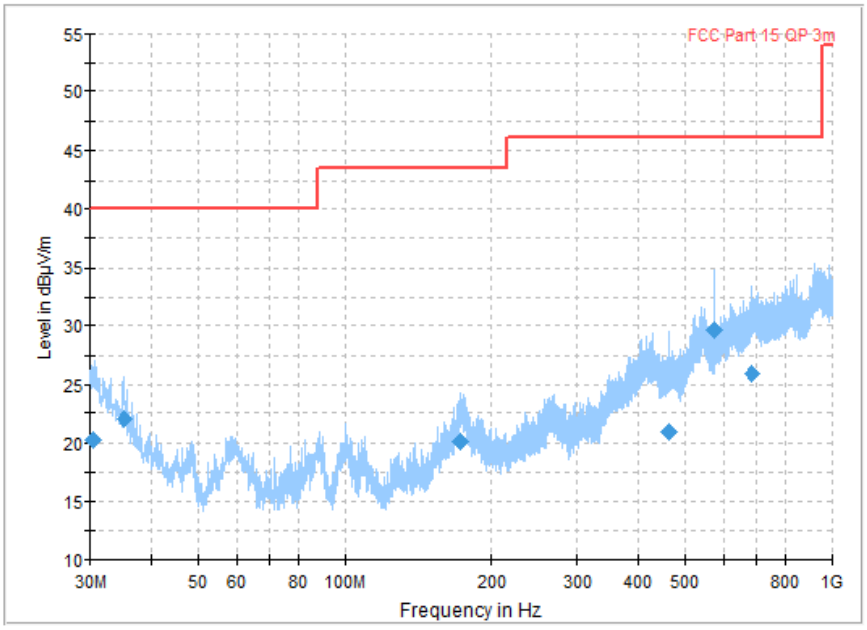

Figure A.5 Radiated Emission (Set.1, Charging and WCDMA Band 5 idle, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
30.394444	20.34	40.00	19.66	H	-6.4	26.74
35.239444	22.08	40.00	17.92	V	-9	31.08
172.822778	20.13	43.50	23.37	V	-12.5	32.63
463.283889	21.00	46.00	25.00	V	-3.4	24.4
576.002222	29.64	46.00	16.36	V	-1.8	31.44
684.672778	25.84	46.00	20.16	H	0.7	25.14

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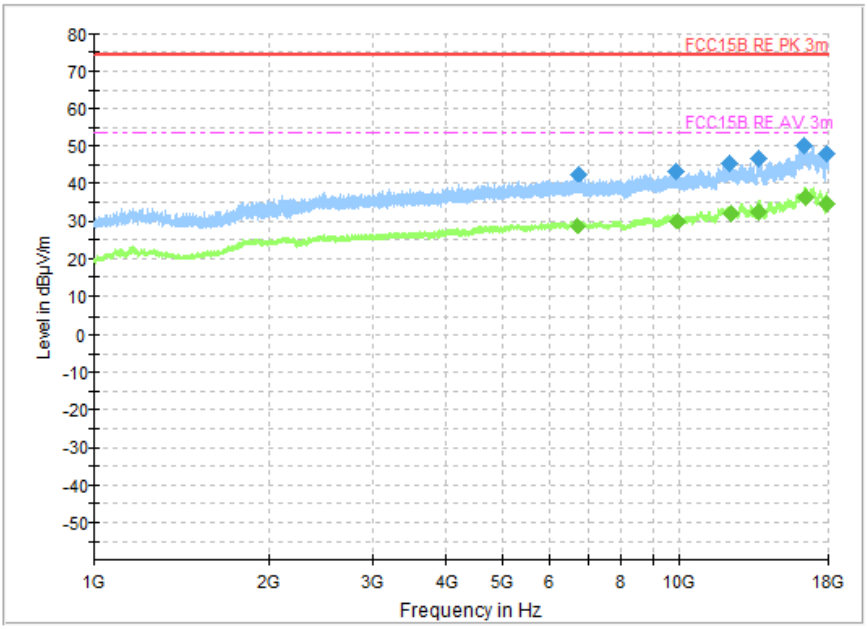

Figure A.6 Radiated Emission (Set.1, Charging and WCDMA Band 5 idle, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
6736.000000	42.63	74	31.37	H	3.5	39.13
9919.500000	43.43	74	30.57	H	6.3	37.13
12244.000000	45.47	74	28.53	V	8.3	37.17
13714.500000	46.93	74	27.07	V	8.9	38.03
16446.000000	49.94	74	24.06	H	14.7	35.24
17866.500000	48.21	74	25.79	H	13.4	34.81

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
6702.000000	28.86	54	25.14	H	3.5	25.36
9971.000000	30.10	54	23.90	V	6.3	23.80
12287.500000	32.20	54	21.80	V	8.3	23.90
13748.500000	32.54	54	21.46	V	8.9	23.64
16464.000000	36.48	54	17.52	V	14.7	21.78
17902.000000	34.78	54	19.22	H	13.2	21.58

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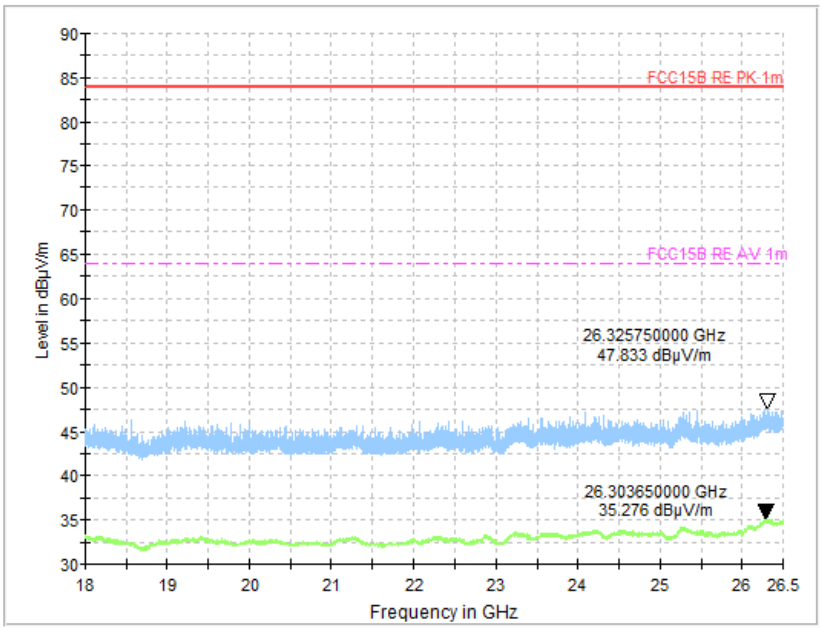

Figure A.7 Radiated Emission (Set.1, Charging and WCDMA Band 5 idle, 18GHz to 26.5GHz)

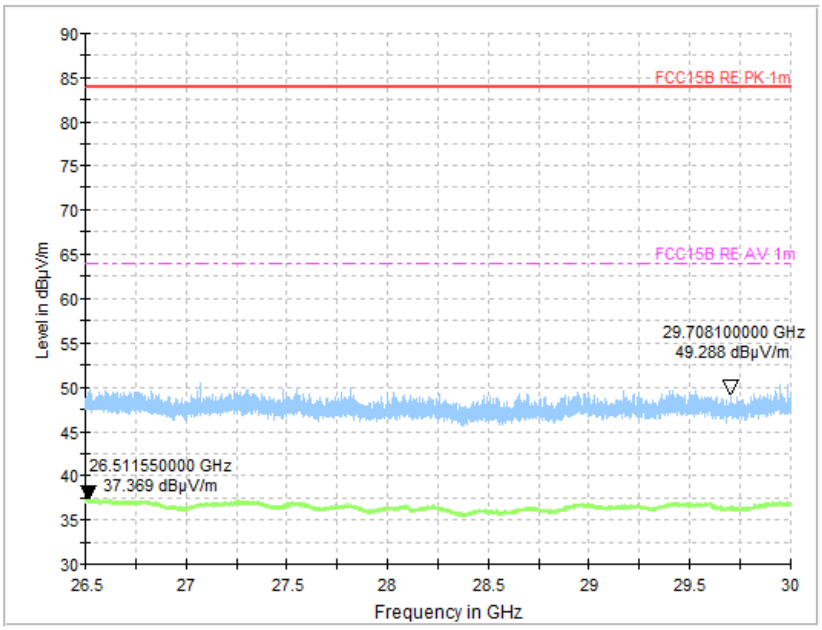

Figure A.8 Radiated Emission (Set.1, Charging and WCDMA Band 5 idle, 26.5GHz to 30GHz)

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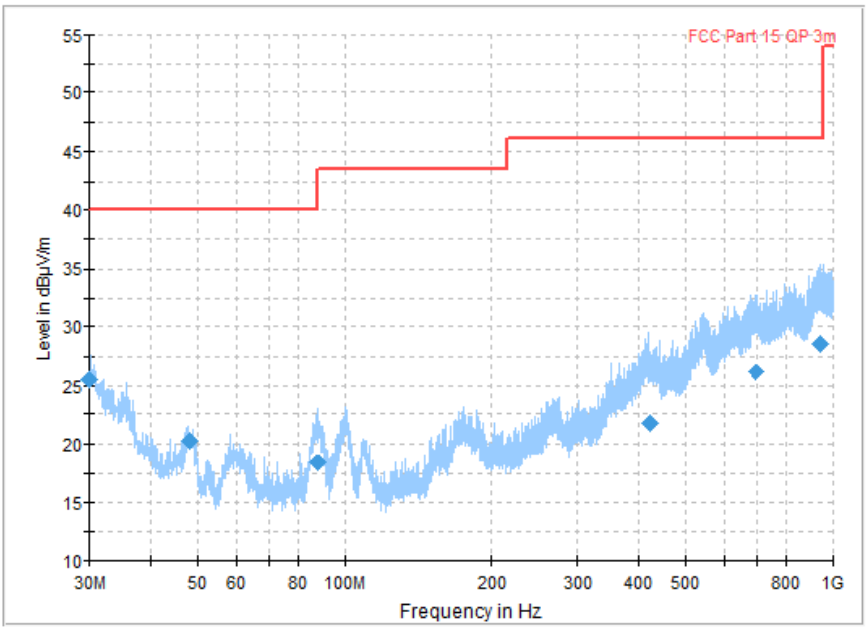

Figure A.9 Radiated Emission (Set.1, Charging and LTE Band 5 idle, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
30.03	25.47	40.00	14.53	V	-6.3	31.77
48.017222	20.23	40.00	19.77	V	-15	35.23
87.853889	18.38	40.00	21.62	V	-15.5	33.88
420.07222	21.78	46.00	24.22	H	-3.8	25.58
696.81556	26.14	46.00	19.86	V	1.1	25.04
945.5	28.57	46.00	17.43	V	2.9	25.67

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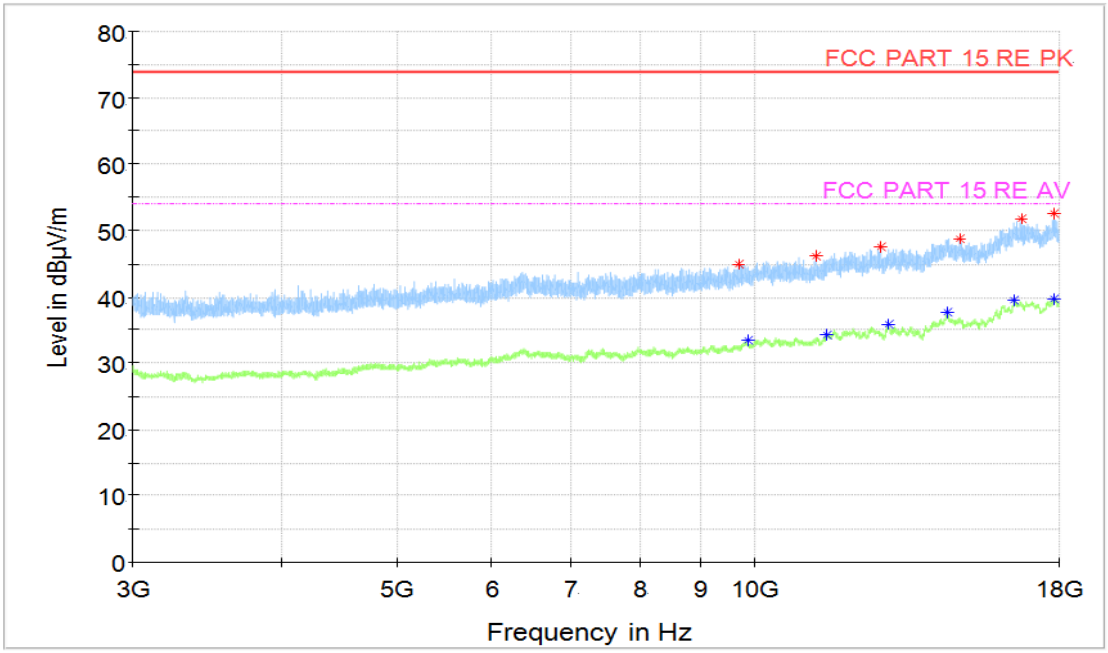

Figure A.10 Radiated Emission (Set.1, Charging and LTE Band 5 idle , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
9784.000000	44.15	74	29.85	V	6.5	37.65
10901.000000	45.31	74	28.69	V	7.0	38.31
11919.000000	45.59	74	28.41	V	8.2	37.39
13709.500000	46.51	74	27.49	V	8.9	37.61
16421.000000	50.12	74	23.88	V	14.6	35.52
17862.500000	49.30	74	24.70	V	13.4	35.90

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
9823.000000	30.14	54	23.86	H	6.4	23.74
10873.000000	31.28	54	22.72	H	7.1	24.18
11951.000000	31.89	54	22.11	H	8.2	23.69
13772.500000	32.76	54	21.24	V	9.0	23.76
16411.000000	36.22	54	17.78	H	14.6	21.62
17853.000000	34.54	54	19.46	H	13.4	21.14

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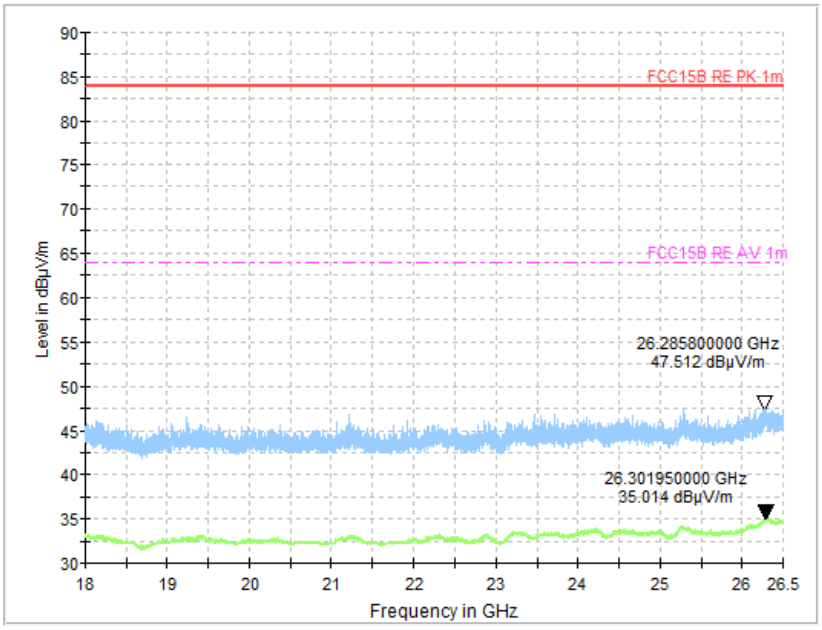

Figure A.11 Radiated Emission (Set.1, Charging and LTE Band 5 idle, 18GHz to 26.5GHz)

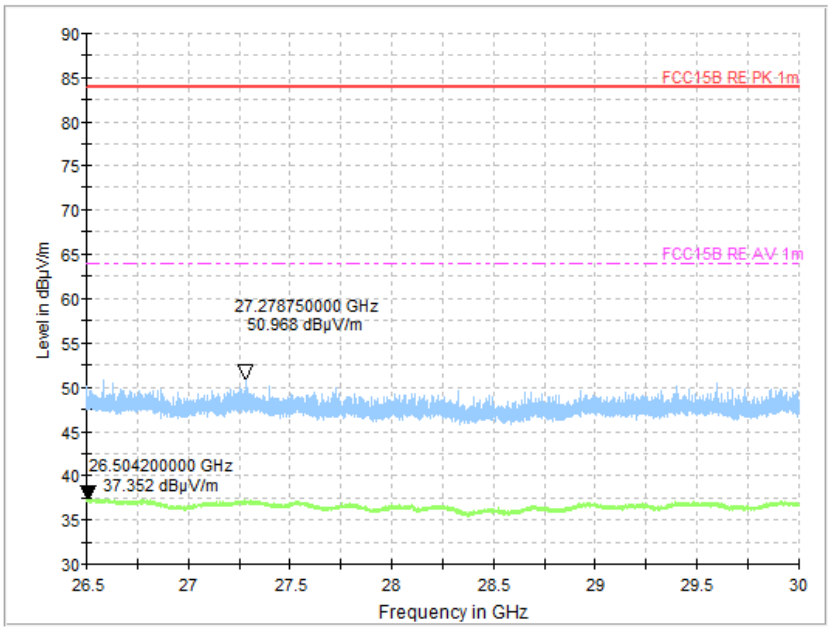

Figure A.12 Radiated Emission (Set.1, Charging and LTE Band 5 idle, 26.5GHz to 30GHz)

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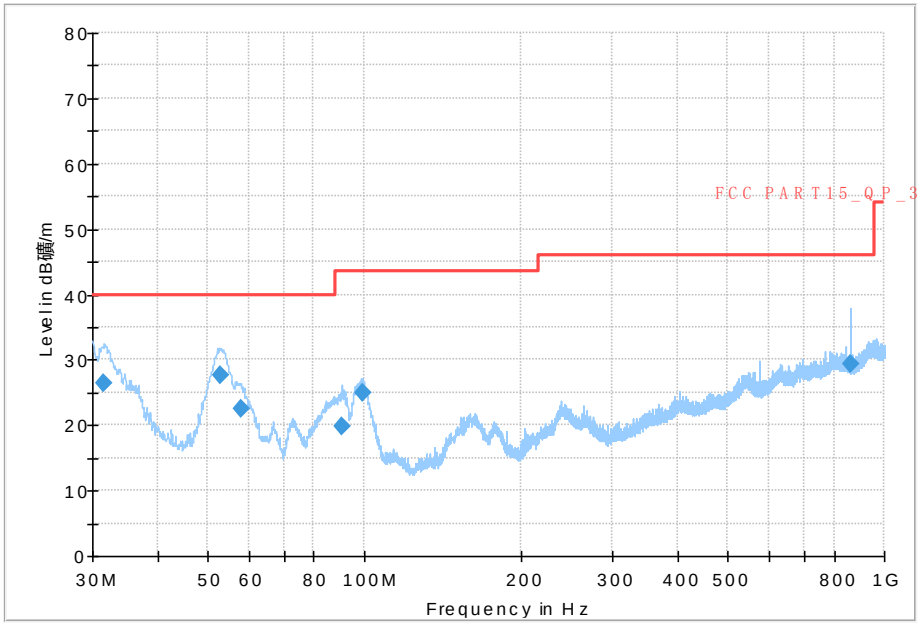

Figure A.13 Radiated Emission (Set.1, Charging and LTE Band 12 idle, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
31.576250	26.42	40.00	13.58	V	-6.8	33.22
52.976875	27.71	40.00	12.29	V	-15.7	43.41
57.887500	22.42	40.00	17.58	V	-15.9	38.32
90.564375	19.91	43.52	23.61	V	-15	34.91
99.112500	25.01	43.52	18.51	V	-14	39.01
863.957500	29.33	46.02	16.69	V	0.6	28.73

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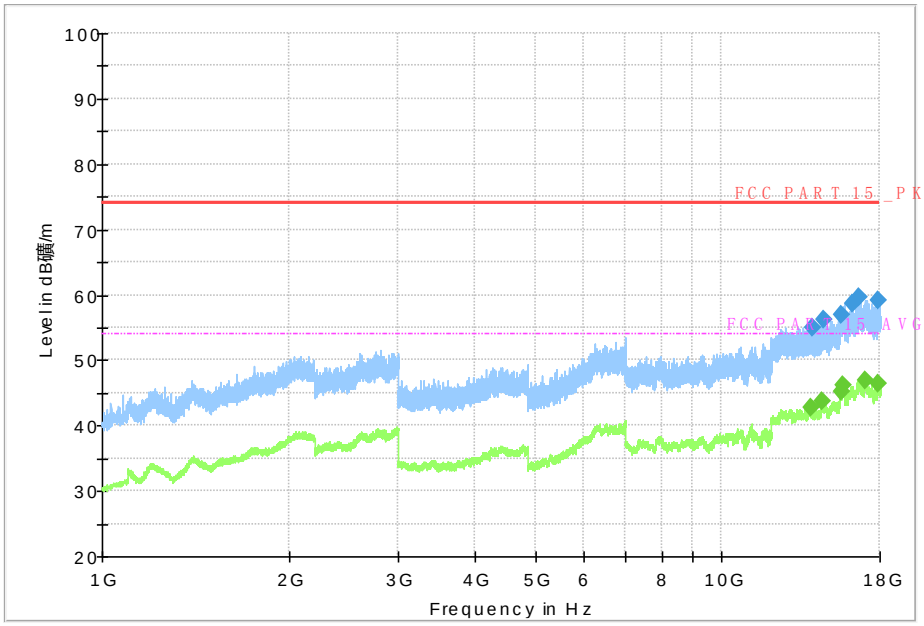

Figure A.14 Radiated Emission (Set.1, Charging and LTE Band 12 idle , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBμV)
14002.000000	55.07	74.00	18.93	V	9.2	45.87
14576.000000	56.21	74.00	17.79	H	10.3	45.91
15570.750000	57.05	74.00	16.95	H	11.7	45.35
16255.750000	58.60	74.00	15.40	H	14.3	44.30
16646.000000	59.53	74.00	14.47	V	14.8	44.73
17896.000000	59.19	74.00	14.81	H	13.3	45.89

Final_Results_AVG

Frequency(MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBμV)
13956.000000	42.86	54.00	11.14	H	9.1	33.76
14558.750000	43.83	54.00	10.17	H	10.3	33.53
15569.000000	45.21	54.00	8.79	H	11.7	33.51
15667.000000	46.17	54.00	7.83	H	11.9	34.27
17044.000000	46.92	54.00	7.08	V	14.7	32.22
17892.000000	46.41	54.00	7.59	V	13.3	33.11

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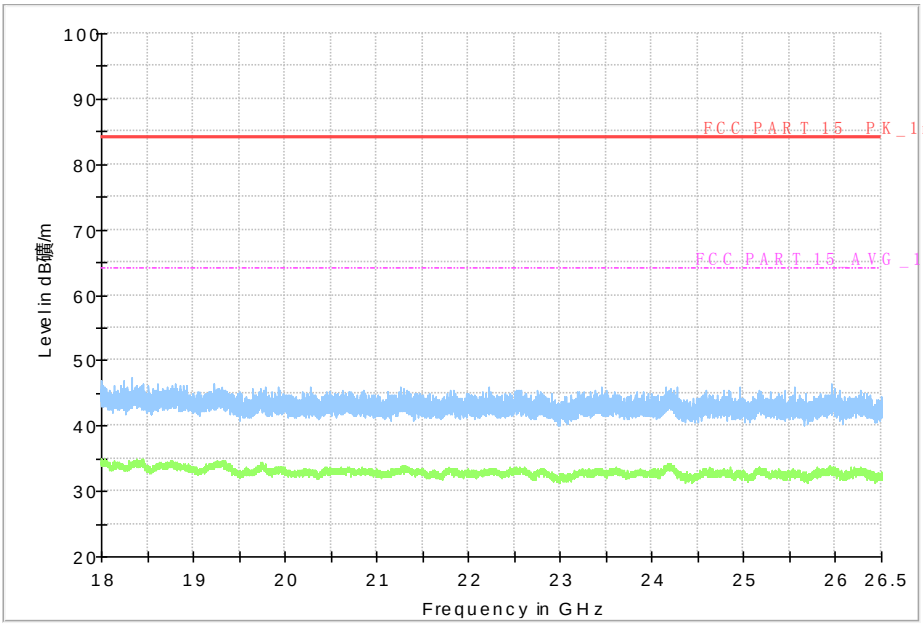

Figure A.15 Radiated Emission (Set.1, Charging and LTE Band 12 idle, 18GHz to 26.5GHz)

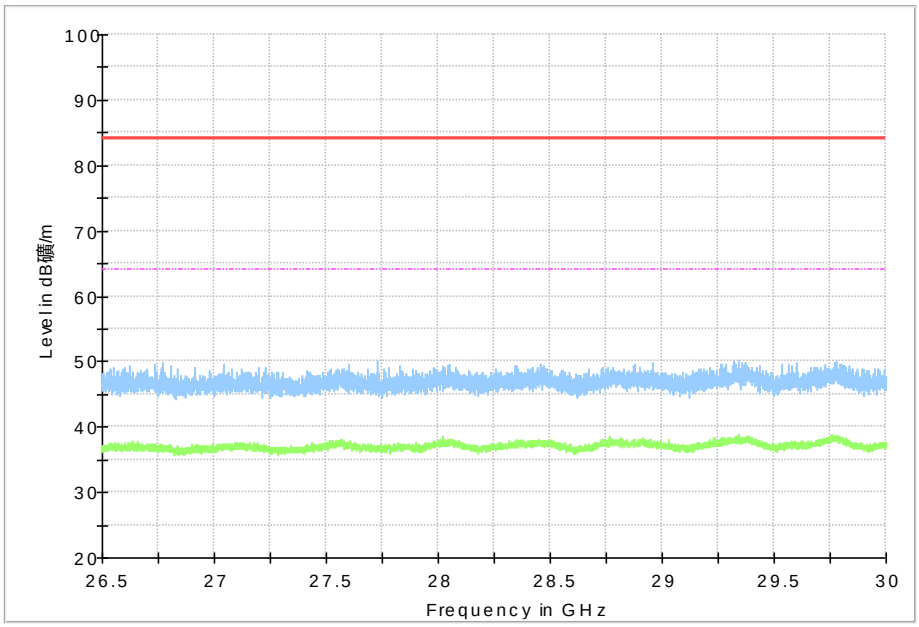

Figure A.16 Radiated Emission (Set.1, Charging and LTE Band 12 idle, 26.5GHz to 30GHz)

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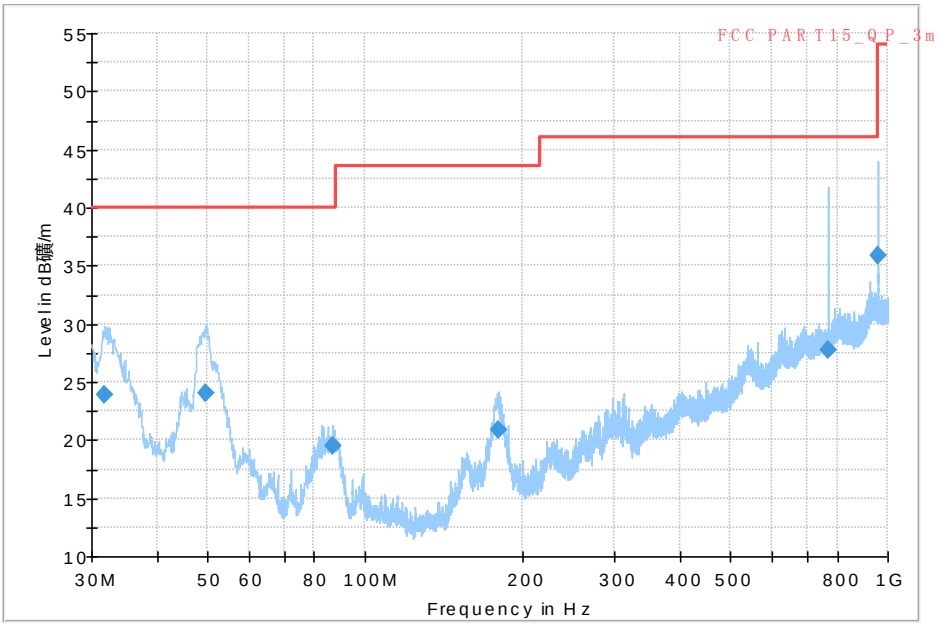

Figure A.17 Radiated Emission (Set.2, Charging and LTE Band 12 idle, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
31.818750	23.84	40.00	16.16	V	-6.8	30.64
49.763750	24.05	40.00	15.95	V	-15	39.05
86.866250	19.45	40.00	20.55	V	-15.4	34.85
179.743750	20.90	43.52	22.62	V	-11.9	32.80
767.988125	27.78	46.02	18.24	V	0.7	27.08
959.987500	35.87	46.02	10.15	H	2.5	33.37

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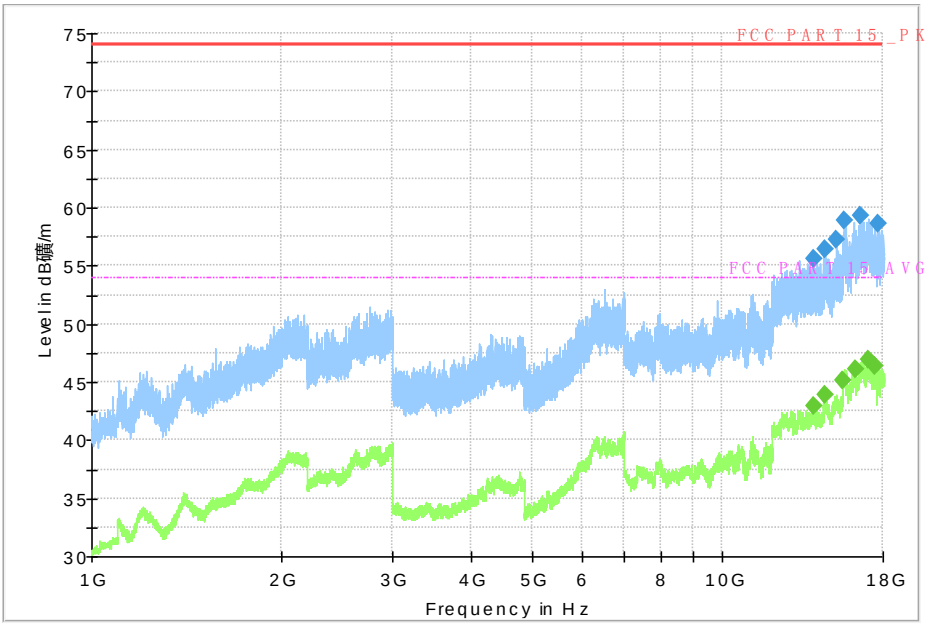

Figure A.18 Radiated Emission (Set.2, Charging and LTE Band 12 idle , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
13955.250000	55.56	74.00	18.44	H	9.1	46.46
14538.250000	56.47	74.00	17.53	V	10.3	46.17
15160.000000	57.29	74.00	16.71	V	11.1	46.19
15613.500000	58.88	74.00	15.12	V	11.8	47.08
16592.750000	59.26	74.00	14.74	H	14.8	44.46
17705.000000	58.68	74.00	15.32	V	13.8	44.88

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
13956.250000	42.94	54.00	11.06	V	9.1	33.84
14561.750000	43.84	54.00	10.16	H	10.3	33.54
15558.750000	45.09	54.00	8.91	H	11.7	33.39
16279.250000	46.09	54.00	7.91	V	14.4	31.69
17048.000000	46.95	54.00	7.05	H	14.7	32.25
17487.500000	46.32	54.00	7.68	V	14.1	32.22

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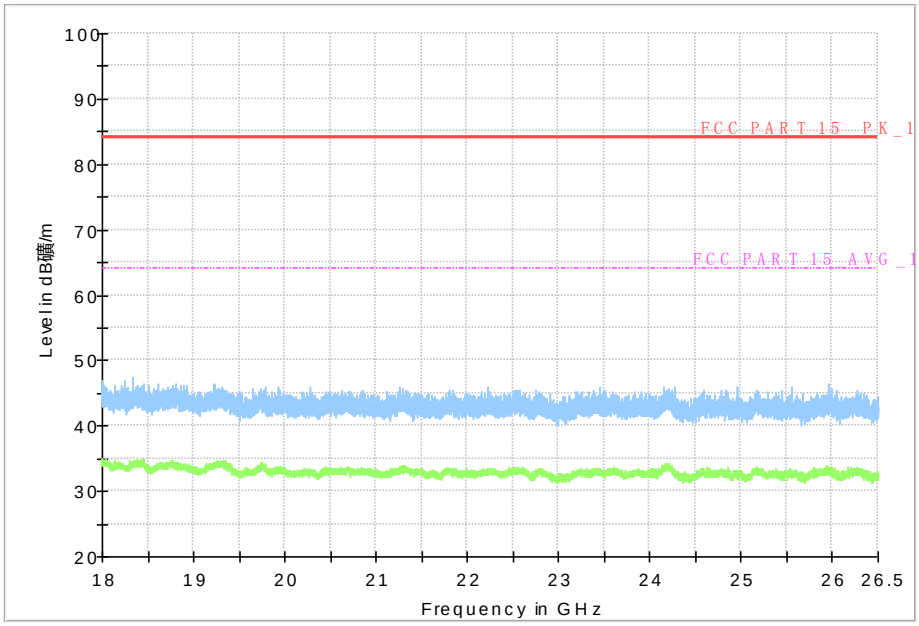

Figure A.19 Radiated Emission (Set.2, Charging and LTE Band 12 idle, 18GHz to 26.5GHz)

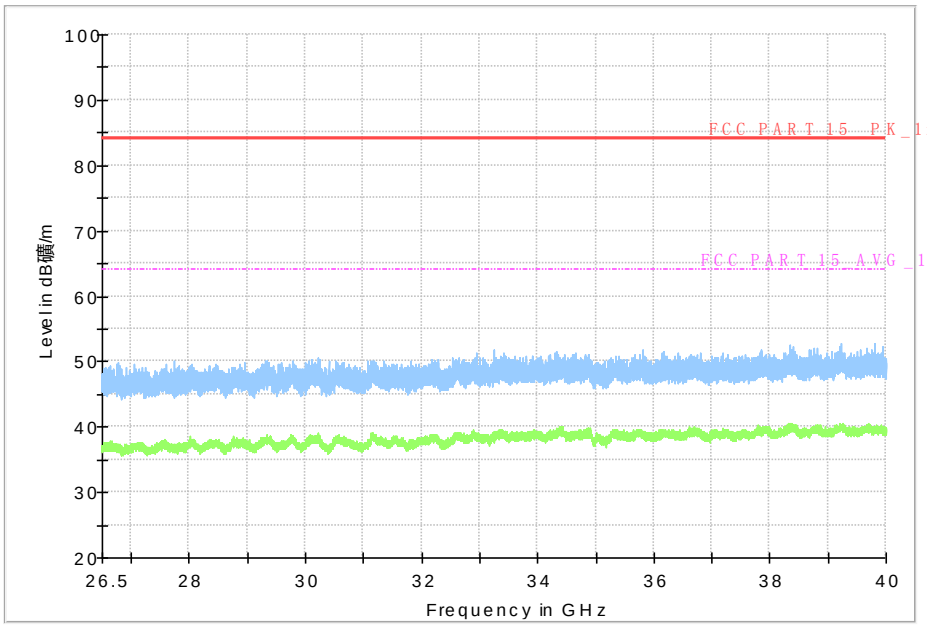

Figure A.20 Radiated Emission (Set.2, Charging and LTE Band 12 idle, 26.5GHz to 30GHz)

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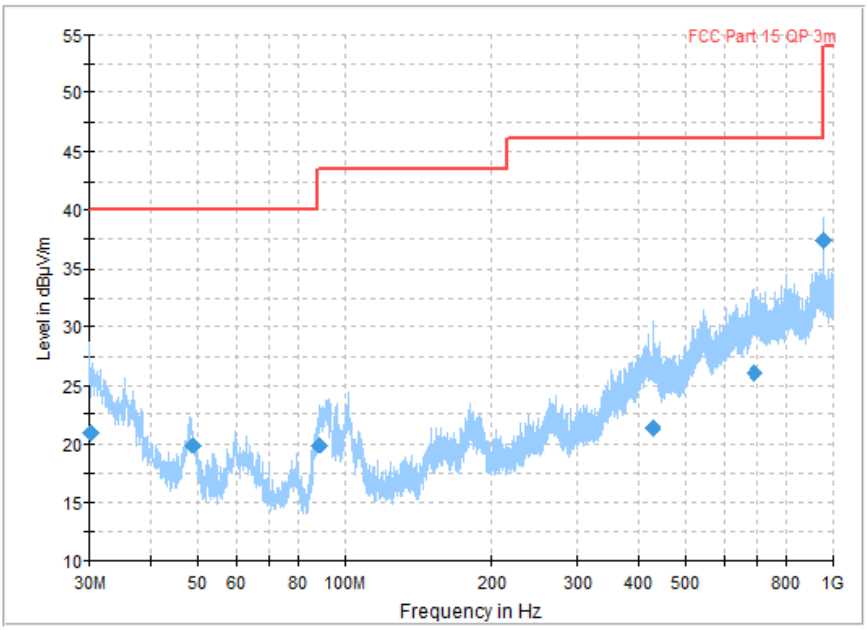

Figure A.21 Radiated Emission (Set.1, Charging and LTE Band 17 idle, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
30.330000	20.97	40.00	19.03	V	-6.4	27.27
48.730556	19.90	40.00	20.10	V	-15.0	34.90
88.476667	19.92	43.50	20.08	V	-15.4	35.42
428.155000	21.40	46.00	24.60	H	-4.2	25.20
690.335556	25.99	46.00	20.01	H	1.0	24.89
959.990556	37.38	46.00	8.62	H	2.5	34.48

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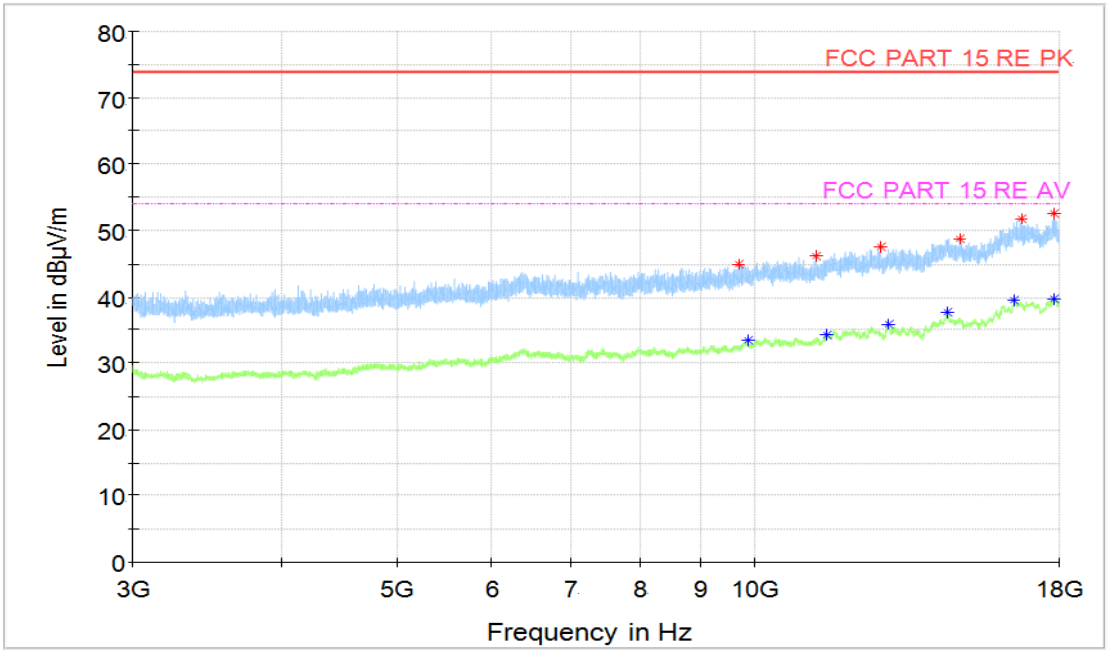

Figure A.22 Radiated Emission (Set.1, Charging and LTE Band 17 idle , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
9784.000000	44.15	74	29.85	V	6.5	37.65
10901.000000	45.31	74	28.69	H	7.0	38.31
11919.000000	45.59	74	28.41	H	8.2	37.39
13709.500000	46.51	74	27.49	V	8.9	37.61
16421.000000	50.12	74	23.88	V	14.6	35.52
17862.500000	49.30	74	24.70	V	13.4	35.90

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
9823.000000	30.14	54	23.86	H	6.4	23.74
10873.000000	31.28	54	22.72	H	7.1	24.18
11951.000000	31.89	54	22.11	H	8.2	23.69
13772.500000	32.76	54	21.24	H	9.0	23.76
16411.000000	36.22	54	17.78	H	14.6	21.62
17853.000000	34.54	54	19.46	V	13.4	21.14

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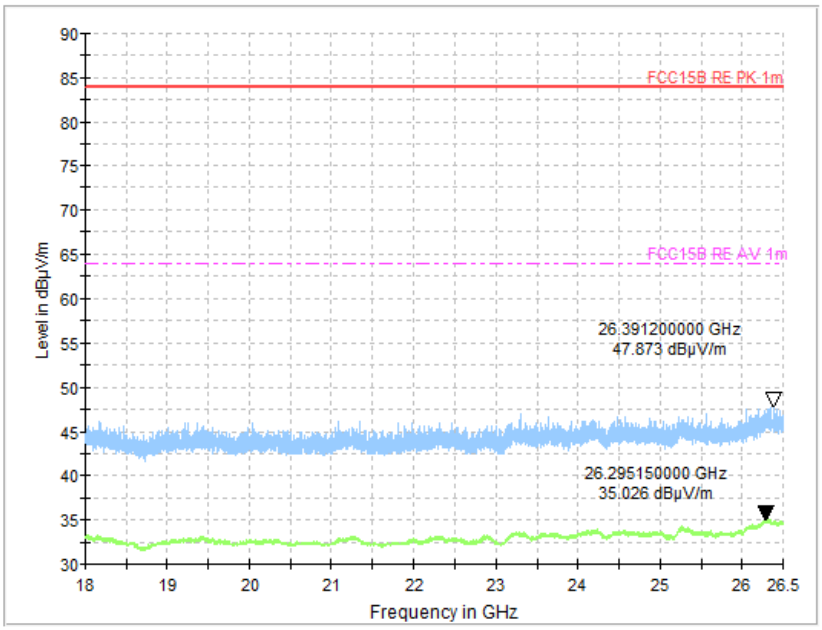

Figure A.23 Radiated Emission (Set.1, Charging and LTE Band 17 idle, 18GHz to 26.5GHz)

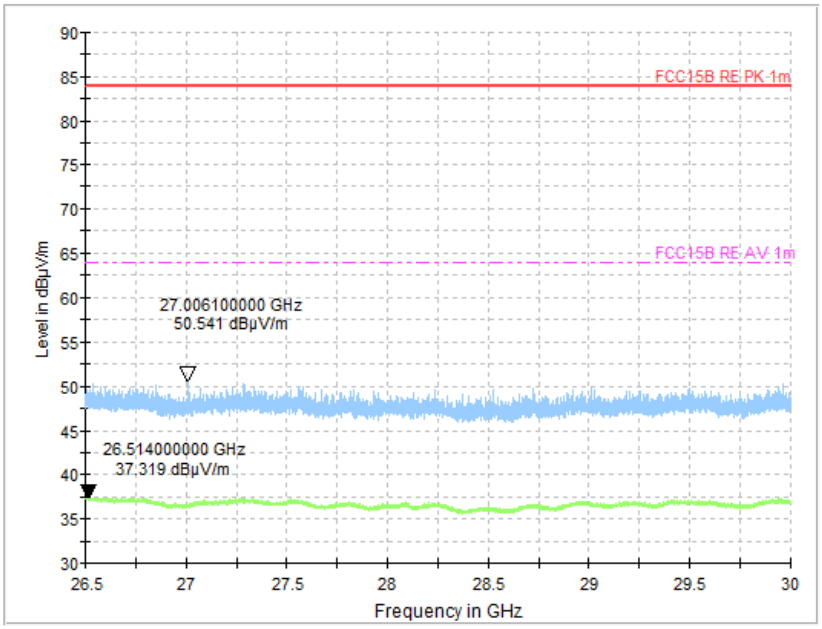

Figure A.24 Radiated Emission (Set.1, Charging and LTE Band 17idle, 26.5GHz to 30GHz)

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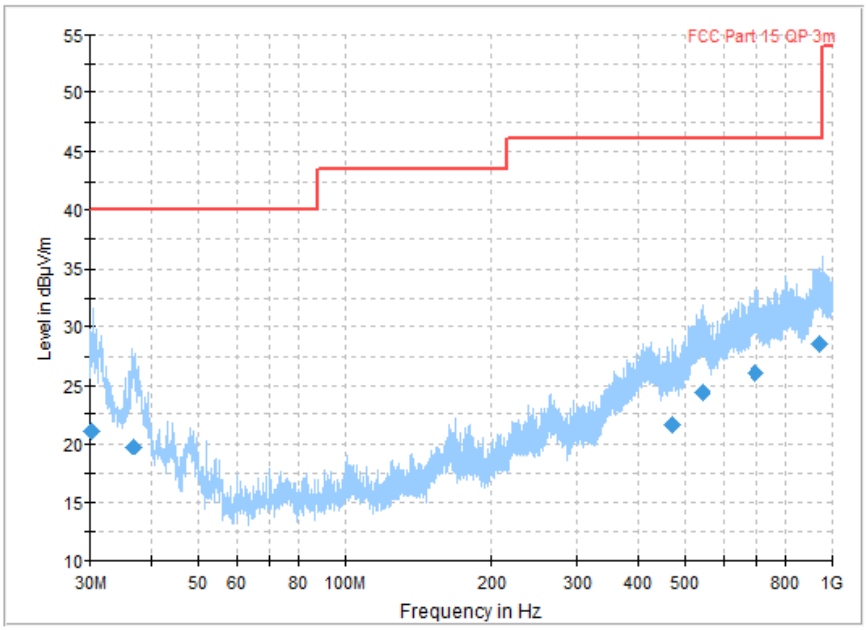

Figure A.25 Radiated Emission (Set.2, Charging and GSM850MHz idle, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
30.240000	21.10	40.00	18.90	V	-6.3	27.40
36.862222	19.74	40.00	20.26	V	-10.2	29.94
471.673333	21.60	46.00	21.90	V	-3.4	25.00
542.717222	24.48	46.00	21.52	H	-0.2	24.68
697.843889	26.07	46.00	19.93	V	1.1	24.97
944.883333	28.61	46.00	17.39	H	2.9	25.71

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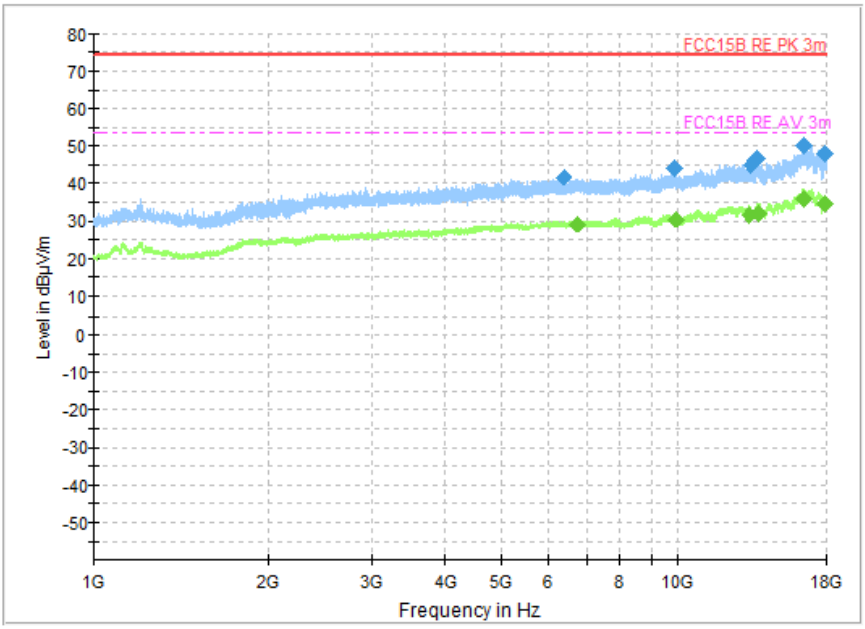

Figure A.26 Radiated Emission (Set.2, Charging and GSM850MHz idle , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
6393.000000	41.80	74	32.20	H	3.0	38.80
9877.000000	44.48	74	29.52	V	6.4	38.08
13383.000000	45.06	74	28.94	H	8.5	36.56
13754.500000	46.71	74	27.29	H	8.9	37.81
16549.000000	49.94	74	24.06	H	14.8	35.14
17938.000000	47.90	74	26.10	H	13.1	34.80

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
6755.500000	29.42	54	24.58	H	3.5	25.92
9966.000000	30.71	54	23.29	V	6.3	24.41
13284.000000	31.87	54	22.13	V	8.3	23.57
13769.000000	32.42	54	21.58	V	9.0	23.42
16485.000000	36.17	54	17.83	V	14.7	21.47
17910.500000	34.72	54	19.28	V	13.2	21.52

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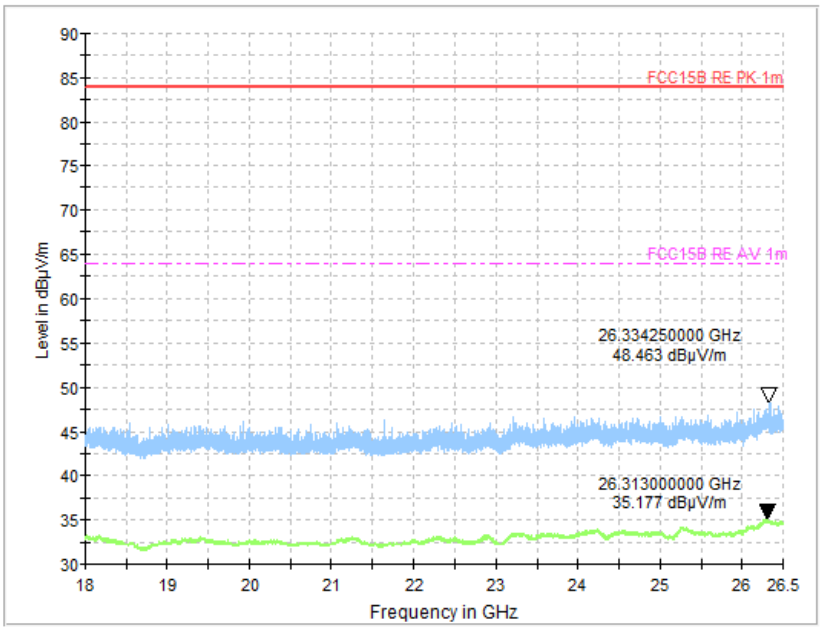

Figure A.27 Radiated Emission (Set.2, Charging and GSM850MHz idle , 18GHz to 26.5GHz)

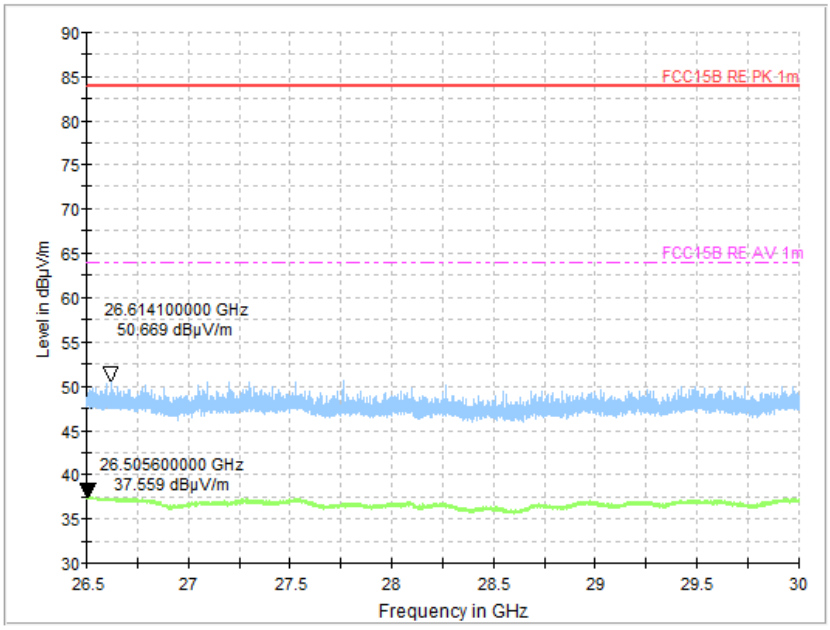

Figure A.28 Radiated Emission (Set.2, Charging and GSM850MHz idle , 26.5GHz to 30GHz)

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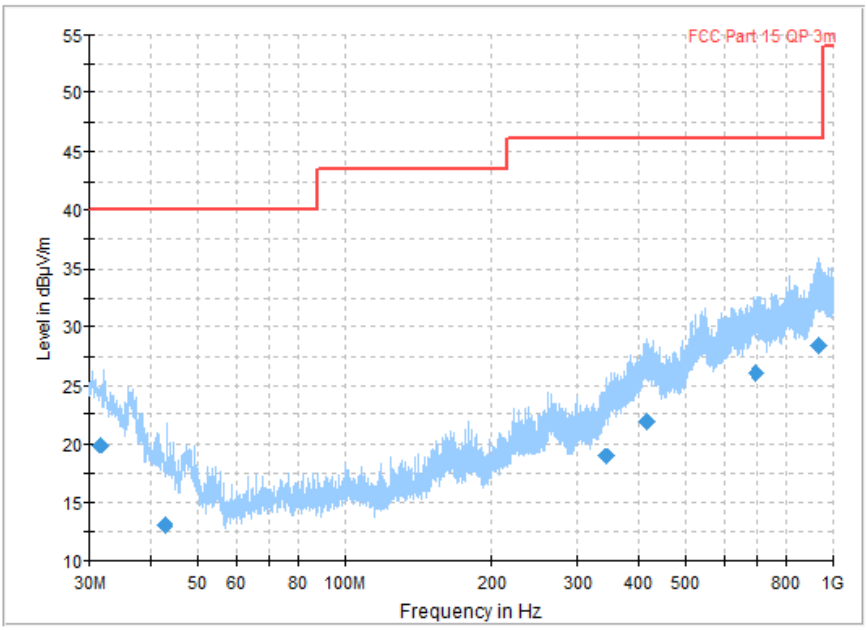

Figure A.29 Radiated Emission (Set.2, Charging and WCDMA Band 5 idle, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
31.591667	19.85	40.00	20.15	V	-6.8	26.65
42.818333	13.09	40.00	26.91	H	-12.7	25.79
343.082222	18.89	46.00	27.11	H	-6.5	25.39
415.695556	21.90	46.00	24.10	H	-3.6	25.50
693.971667	25.98	46.00	20.02	H	1.1	24.88
936.818889	28.42	46.00	17.58	V	2.7	25.72

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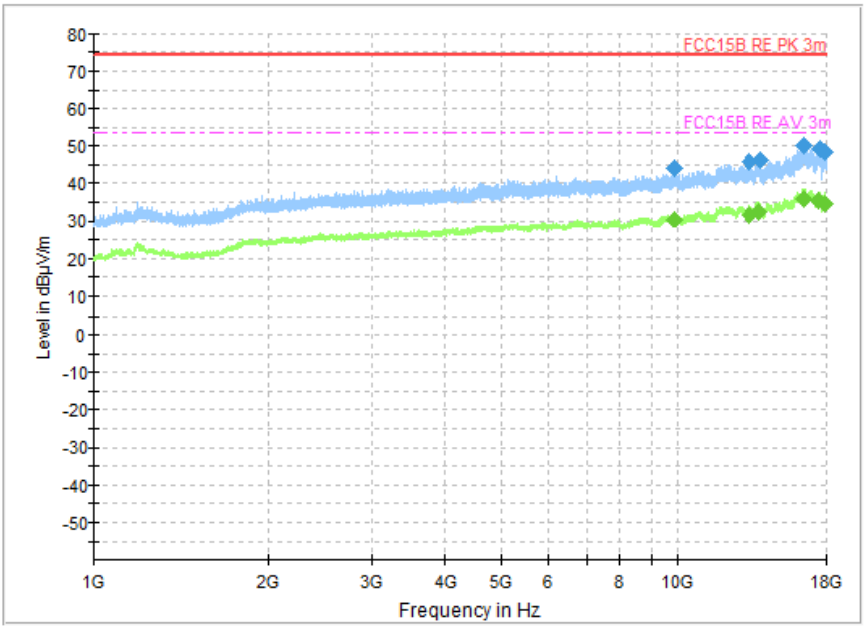

Figure A.30 Radiated Emission (Set.2, Charging and WCDMA Band 5 idle , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
9890.000000	44.41	74	29.59	V	6.4	38.01
13270.000000	45.77	74	28.23	H	8.2	37.57
13915.000000	46.32	74	27.68	V	9.1	37.22
16483.500000	50.06	74	23.94	V	14.7	35.36
17543.500000	49.31	74	24.69	H	14.0	35.31
17843.500000	48.40	74	25.60	H	13.5	34.90

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
9872.000000	30.67	54	23.33	H	6.4	24.27
13324.000000	31.84	54	22.16	V	8.4	23.44
13805.000000	32.71	54	21.29	V	9.0	23.71
16515.500000	36.16	54	17.84	H	14.7	21.46
17488.000000	35.60	54	18.40	H	14.1	21.5
17856.000000	34.68	54	19.32	H	13.4	21.28

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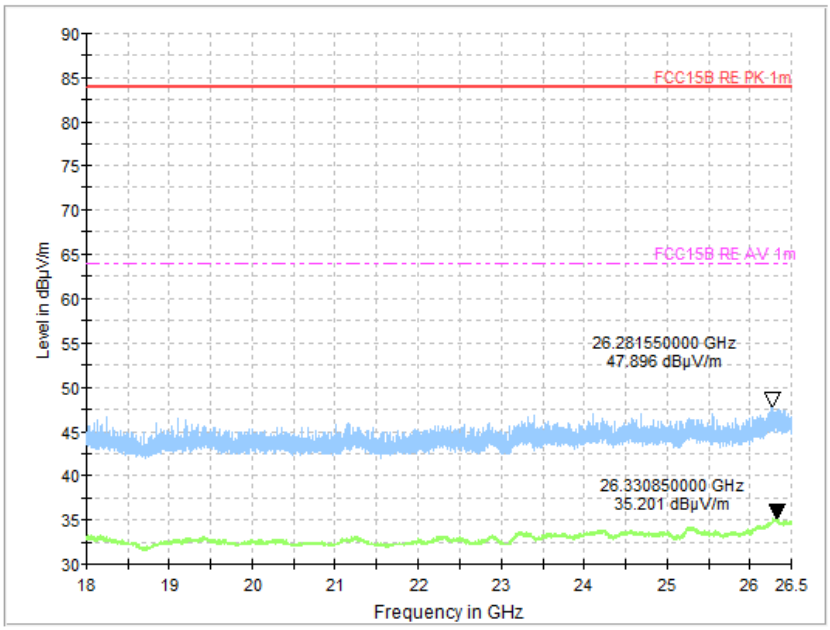

Figure A.31 Radiated Emission (Set.2, Charging and WCDMA Band 5 idle, 18GHz to 26.5GHz)

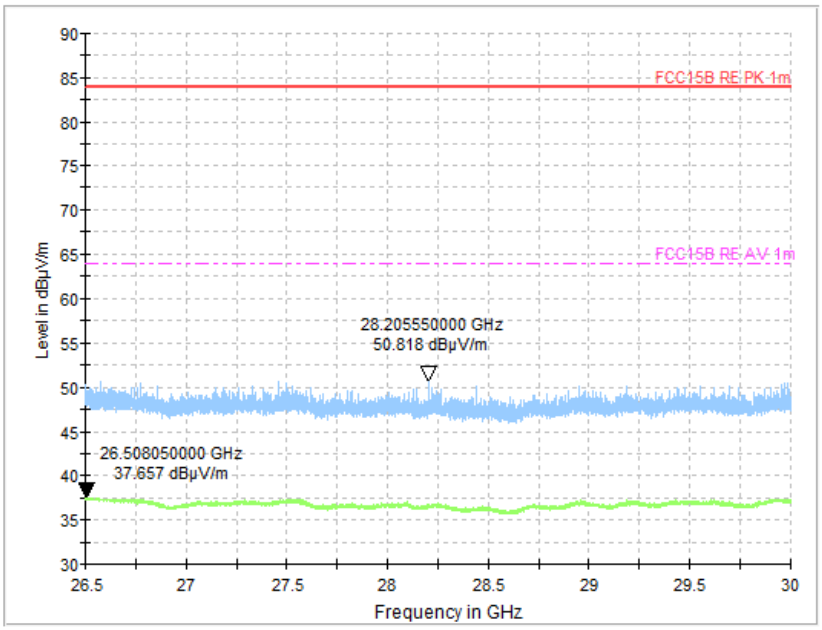

Figure A.32 Radiated Emission (Set.2, Charging and WCDMA Band 5 idle, 26.5GHz to 30GHz)

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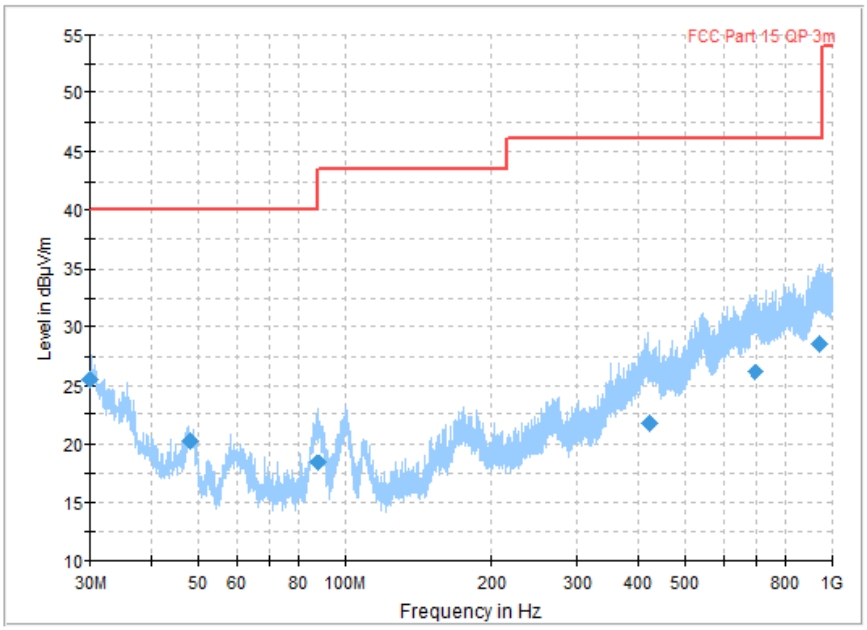

Figure A.33 Radiated Emission (Set.2, Charging and LTE Band 5 idle, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
30.030000	20.42	40.00	19.58	H	-6.3	26.72
48.327222	15.18	40.00	24.82	V	-15.0	30.18
341.931667	18.66	46.00	27.34	H	-6.7	25.36
415.580556	21.94	46.00	24.06	V	-3.6	25.54
695.397222	26.14	46.00	19.86	V	1.1	25.04
954.230000	28.28	46.00	17.72	H	2.7	25.58

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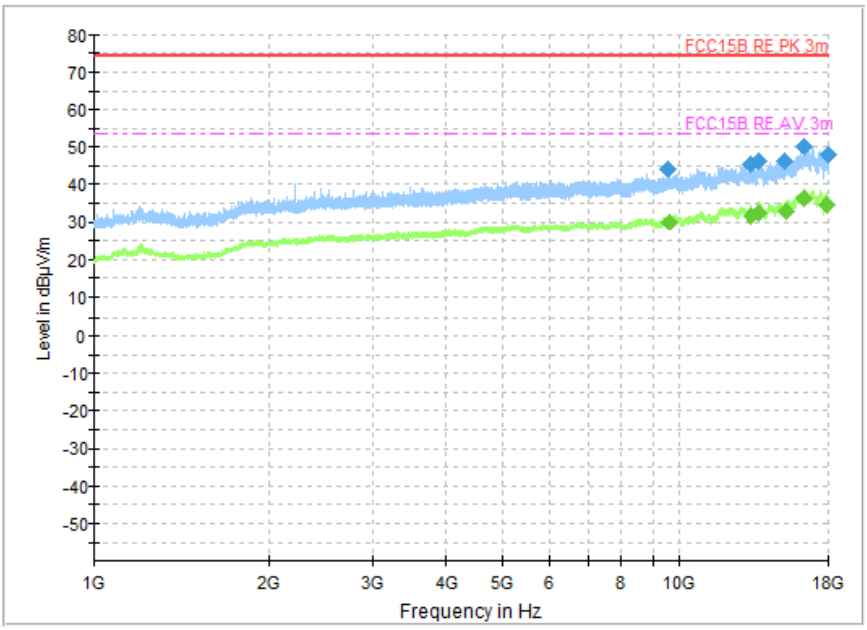

Figure A.34 Radiated Emission (Set.2, Charging and LTE Band 5 idle , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
9602.000000	44.29	74	29.71	V	6.5	37.79
13236.000000	45.50	74	28.5	V	8.1	37.4
13737.500000	46.31	74	27.69	V	8.9	37.41
15104.500000	46.25	74	27.75	H	11.0	35.25
16413.500000	50.22	74	23.78	V	14.6	35.62
17958.000000	47.83	74	26.17	V	13.0	34.83

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
9630.000000	30.26	54	23.74	V	6.5	23.76
13268.500000	31.89	54	22.11	V	8.2	23.69
13737.000000	32.50	54	21.50	V	8.9	23.60
15229.500000	32.85	54	21.15	V	11.2	21.65
16438.000000	36.36	54	17.64	V	14.6	21.76
17894.500000	34.54	54	19.46	H	13.3	21.24

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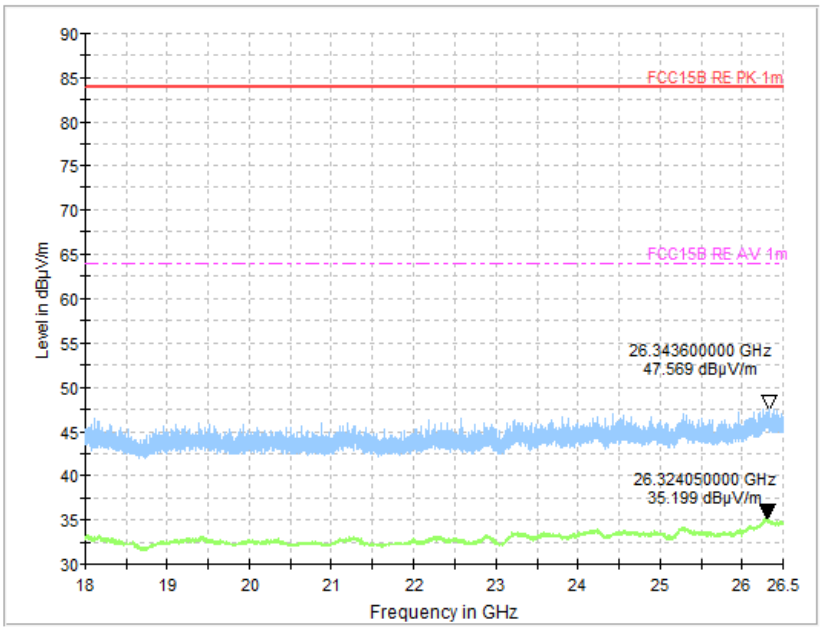

Figure A.35 Radiated Emission (Set.2, Charging and LTE Band 5 idle, 18GHz to 26.5GHz)

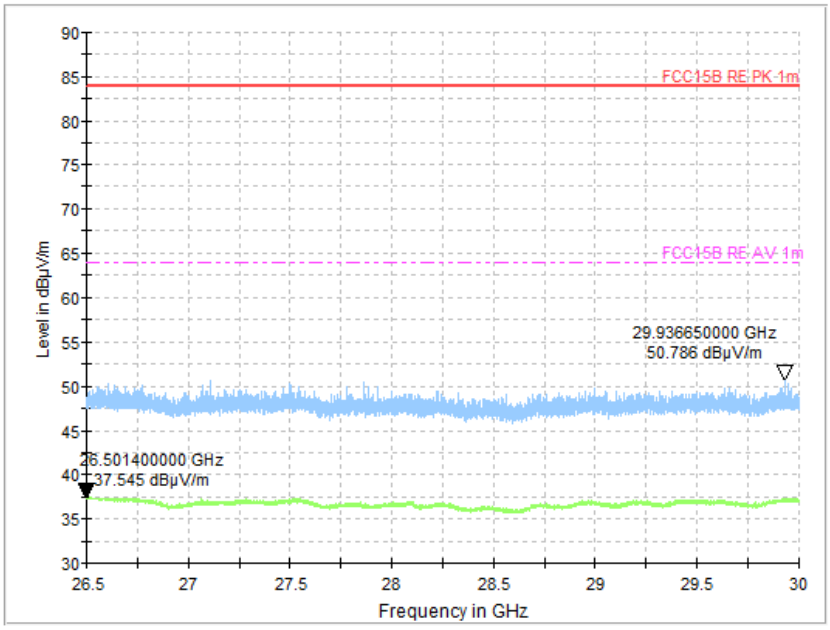

Figure A.36 Radiated Emission (Set.2, Charging and LTE Band 5 idle, 26.5GHz to 30GHz)

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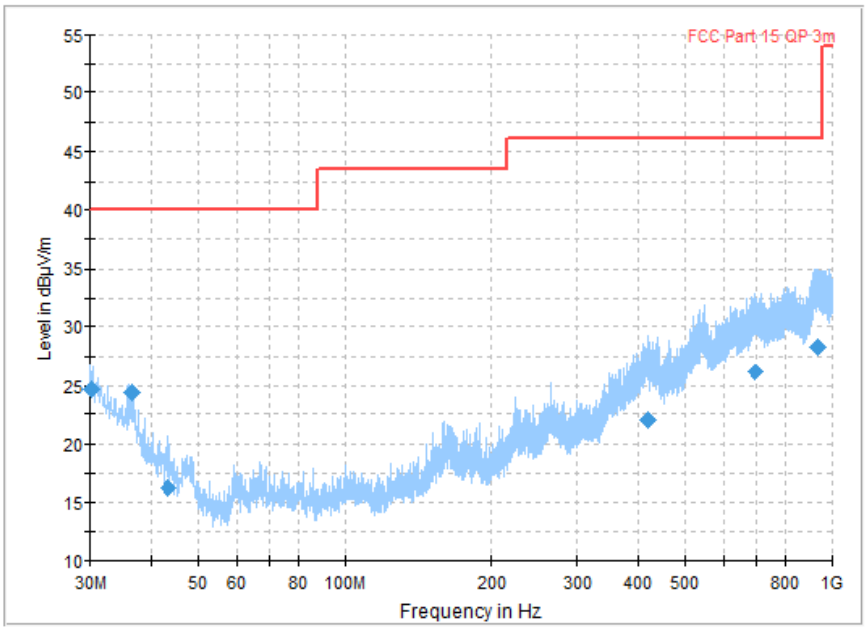

Figure A.37 Radiated Emission (Set.2, Charging and LTE Band 17 idle, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
30.180000	24.74	40.00	15.26	V	-6.3	31.04
36.551667	24.41	40.00	15.59	V	-10.0	34.41
43.551111	16.24	40.00	27.26	V	-13.1	29.34
417.941111	22.01	46.00	23.99	V	-3.6	25.61
696.797222	26.21	46.00	19.79	H	1.1	25.11
933.627222	28.30	46.00	17.70	H	2.7	25.60

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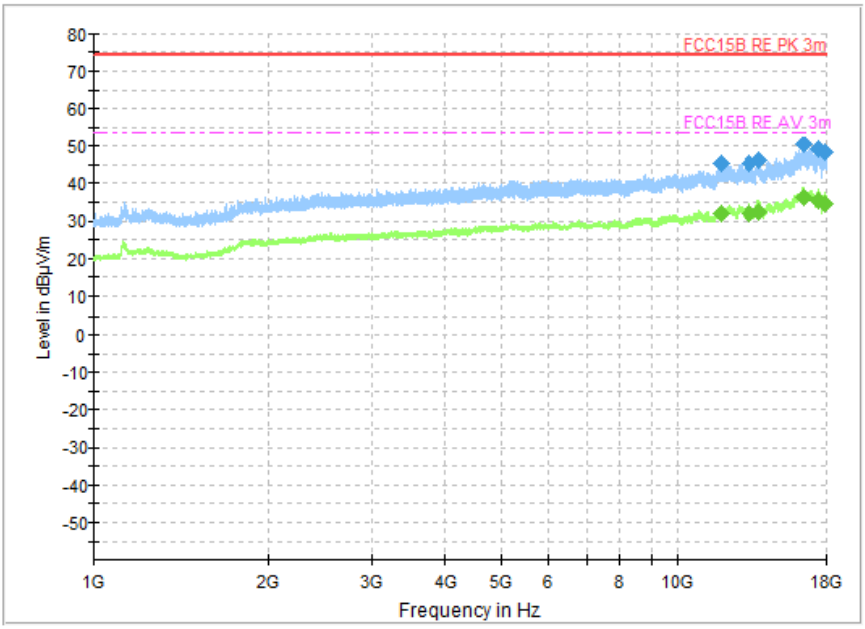

Figure A.38 Radiated Emission (Set.2, Charging and LTE Band 17 idle , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
11905.000000	45.61	74	28.39	H	8.2	37.41
13299.500000	45.38	74	28.62	V	8.3	37.08
13773.500000	46.52	74	27.48	H	9.0	37.52
16478.500000	50.45	74	23.55	V	14.7	35.75
17427.000000	49.26	74	24.74	H	14.1	35.16
17939.500000	48.44	74	25.56	H	13.1	35.34

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
11903.500000	32.29	54	21.71	V	8.2	24.09
13294.000000	32.04	54	21.96	V	8.3	23.74
13778.500000	32.71	54	21.29	V	9.0	23.71
16476.000000	36.40	54	17.60	H	14.7	21.70
17442.500000	35.59	54	18.41	V	14.1	21.49
17860.500000	34.76	54	19.24	H	13.4	21.36

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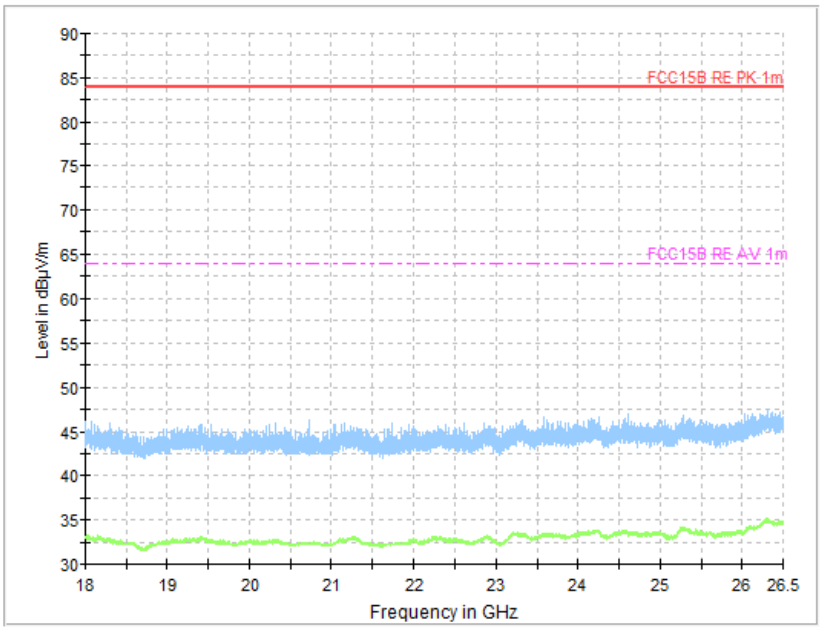

Figure A.39 Radiated Emission (Set.2, Charging and LTE Band 17 idle, 18GHz to 26.5GHz)

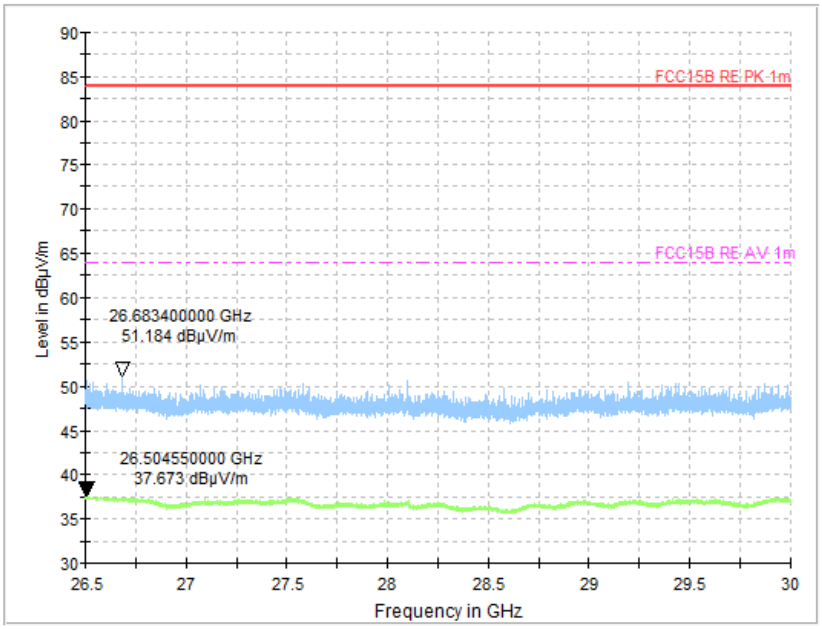

Figure A.40 Radiated Emission (Set.2, Charging and LTE Band 5 idle, 26.5GHz to 30GHz)

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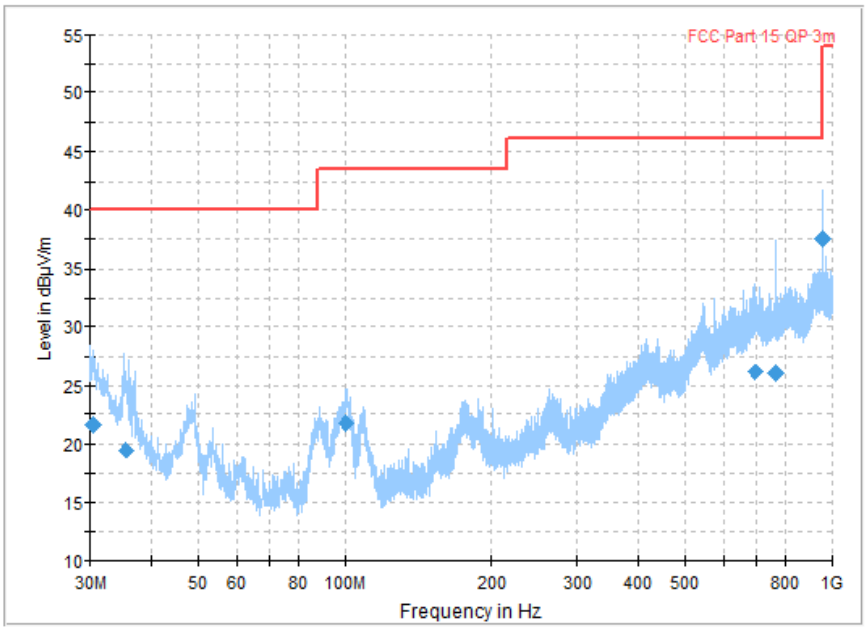

Figure A.41 Radiated Emission (Set.1,Camera Mode, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
30.360000	21.59	40	18.41	V	-6.4	27.99
35.581111	19.51	40	20.49	V	-9.3	28.81
100.925000	21.72	40	18.28	V	-13.7	35.42
698.467222	26.19	43.5	17.31	H	1.1	25.09
768.158333	25.97	46	20.03	V	0.7	25.27
960.014444	37.45	46	8.55	V	2.5	34.95

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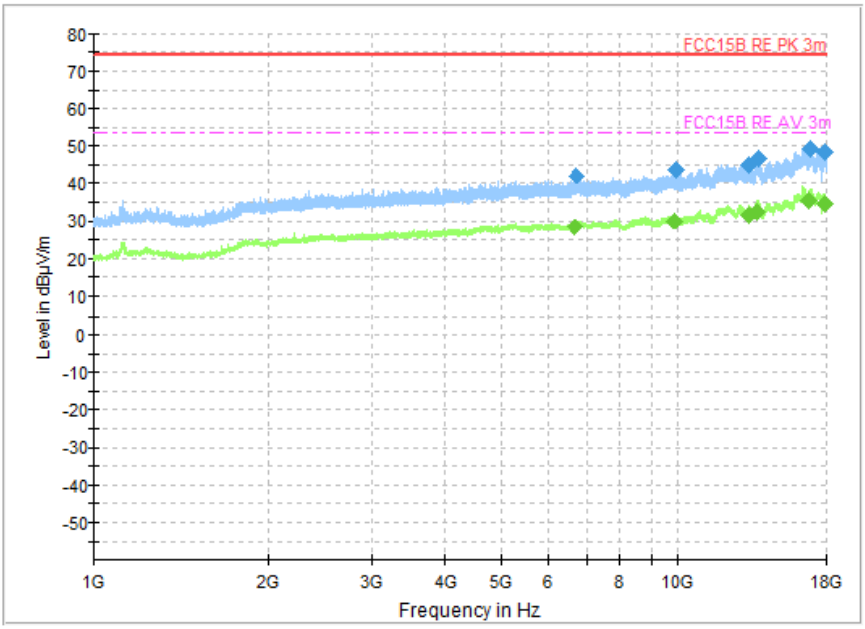

Figure A.42 Radiated Emission (Set.1, Camera Mode , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
6711.500000	42.09	74	18.41	V	3.5	27.99
9935.500000	43.77	74	20.49	H	6.3	28.81
13231.000000	44.90	74	18.28	V	8.1	35.42
13783.000000	46.68	74	17.31	V	9.0	25.09
16935.500000	49.20	74	20.03	H	14.8	25.27
17906.500000	48.47	74	8.55	V	13.2	34.95

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
6684.500000	28.50	54	18.41	V	3.4	27.99
9921.500000	30.21	54	20.49	V	6.3	28.81
13254.500000	31.68	54	18.28	H	8.2	35.42
13715.500000	32.71	54	17.31	H	8.9	25.09
16868.500000	35.65	54	20.03	V	14.8	25.27
17892.500000	34.62	54	8.55	V	13.3	34.95

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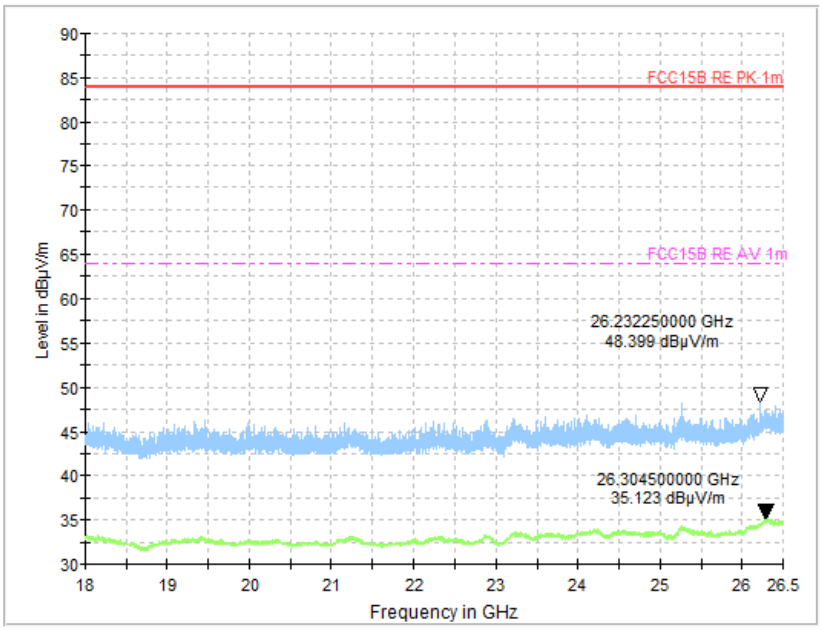
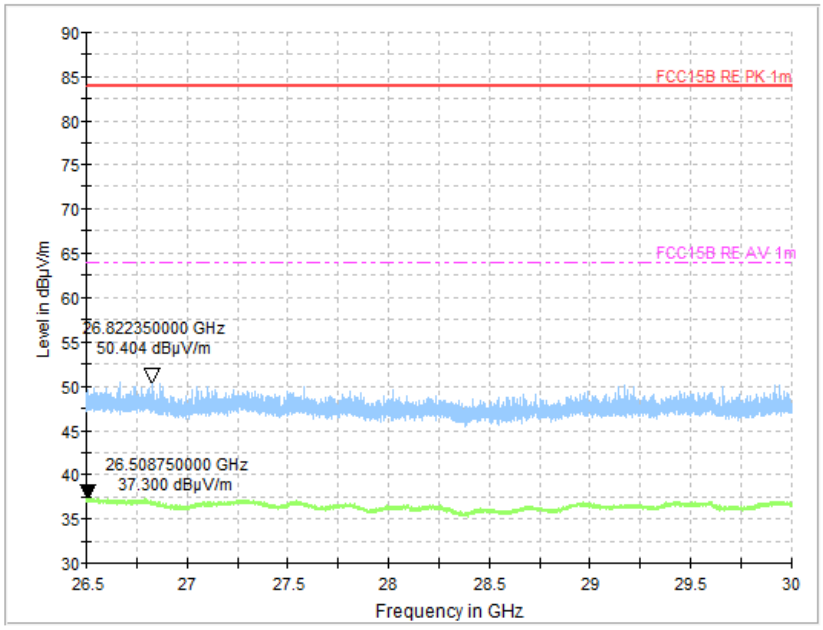


Figure A.43 Radiated Emission (Set.1, Camera Mode , 18GHz to 26.5GHz)



*

Figure A.44 Radiated Emission (Set.1, Camera Mode , 26.5GHz to 30GHz)

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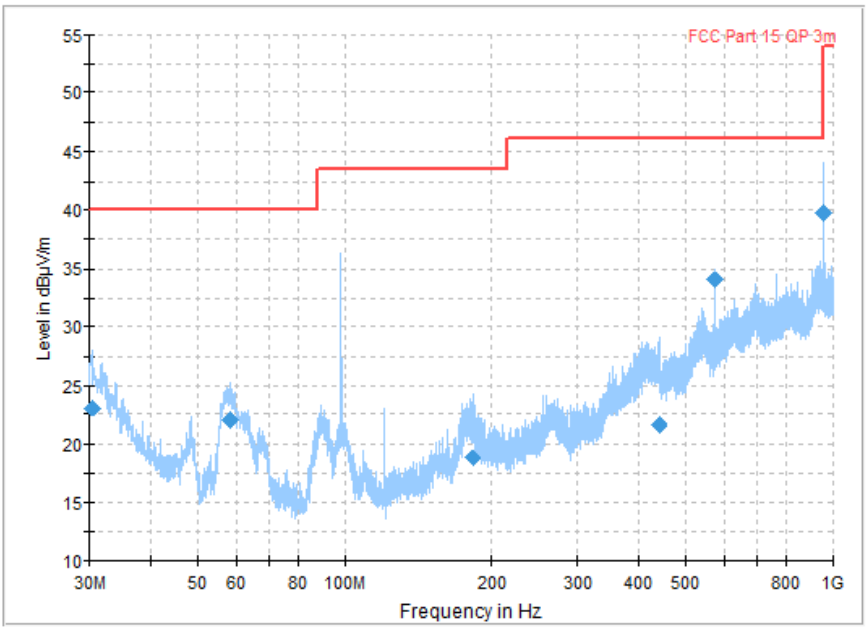

Figure A.45 Radiated Emission (Set.3,FM Mode, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
30.431111	23.13	40.00	16.87	V	-6.4	29.53
58.453333	22.00	40.00	18.00	H	-15.8	37.8
183.421667	18.79	40.00	21.21	V	-12.1	30.89
440.741111	21.63	43.50	21.87	V	-4.3	25.93
576.002222	34.05	46.00	11.95	V	-1.8	35.85
960.014444	39.83	46.00	6.17	V	2.5	37.33

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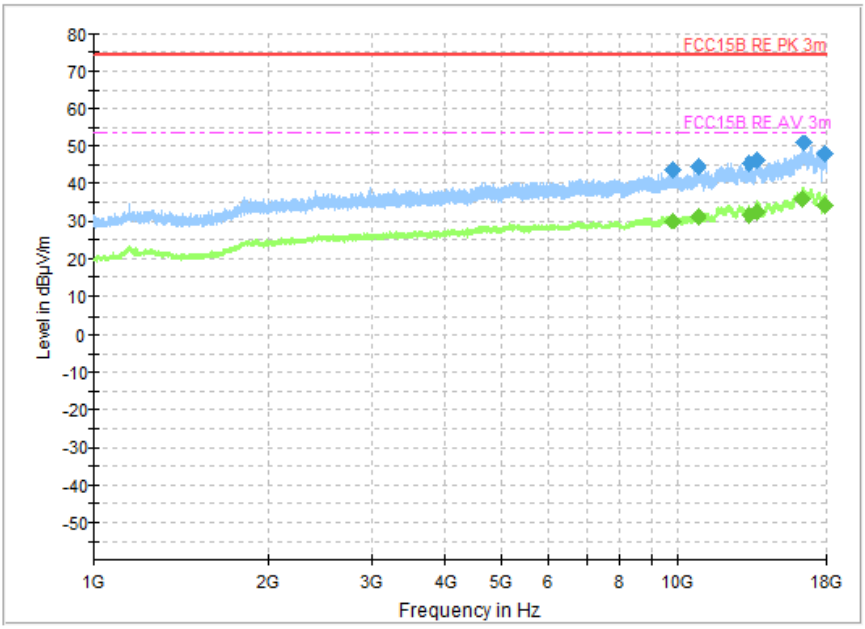

Figure A.46 Radiated Emission (Set.3, FM Mode , 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
9822.500000	43.77	74	30.23	V	6.4	37.37
10865.000000	44.75	74	29.25	V	7.1	37.65
13276.500000	45.66	74	28.34	H	8.3	37.36
13705.000000	46.54	74	27.46	V	8.9	37.64
16466.500000	50.82	74	23.18	V	14.7	36.12
17838.000000	47.82	74	26.18	V	13.5	34.32

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
9846.500000	29.98	54	24.02	V	6.4	23.58
10885.000000	31.44	54	22.56	H	7.1	24.34
13293.000000	32.00	54	22.00	V	8.3	23.70
13741.500000	32.77	54	21.23	H	8.9	23.87
16409.500000	36.12	54	17.88	H	14.6	21.52
17853.000000	34.51	54	19.49	H	13.4	21.11

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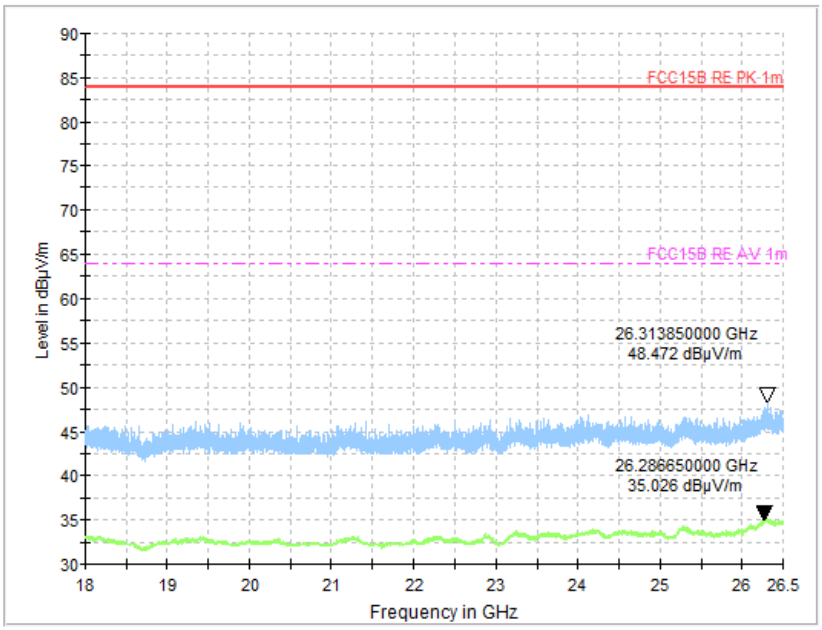

Figure A.47 Radiated Emission (Set.3, FM Mode , 18GHz to 26.5GHz)

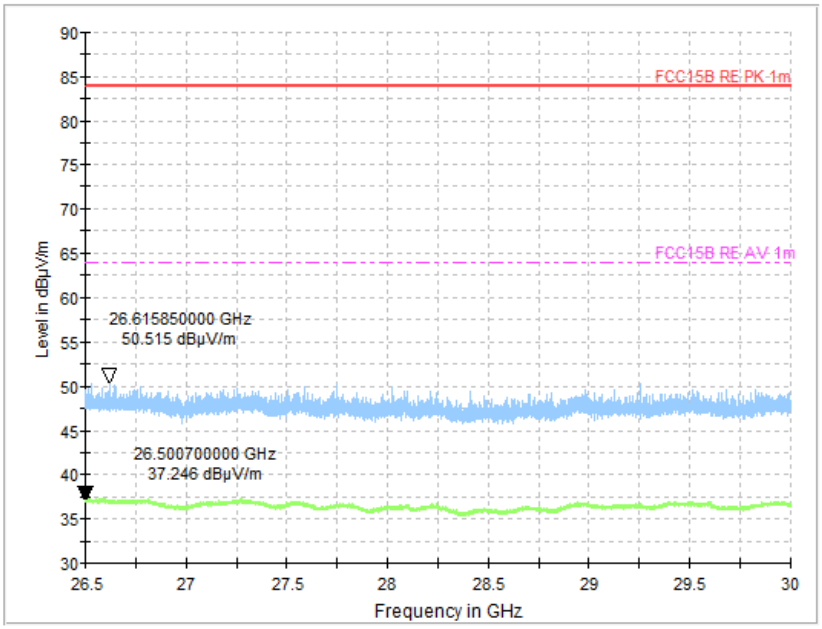

Figure A.48 Radiated Emission (Set.3, FM Mode , 26.5GHz to 30GHz)

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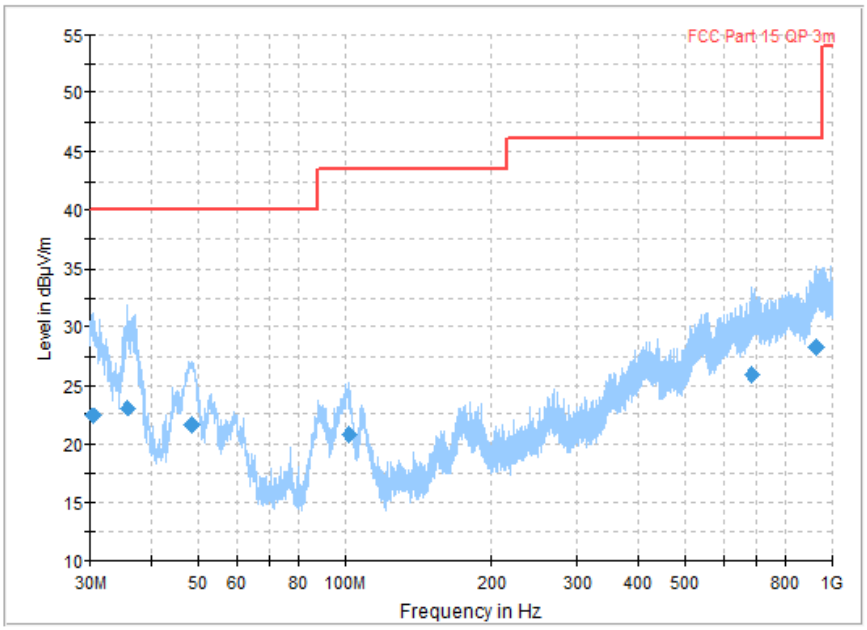

Figure A.49 Radiated Emission (Set.1,Video Player Mode, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
30.420000	22.38	40.00	17.62	V	-6.4	28.78
35.796111	23.03	40.00	16.97	V	-9.4	32.43
48.417778	21.58	40.00	18.42	V	-15.0	36.58
101.941667	20.82	43.50	22.68	V	-13.7	34.52
686.377778	25.89	46.00	20.11	H	0.8	25.09
927.447222	28.25	46.00	17.75	V	2.7	25.55

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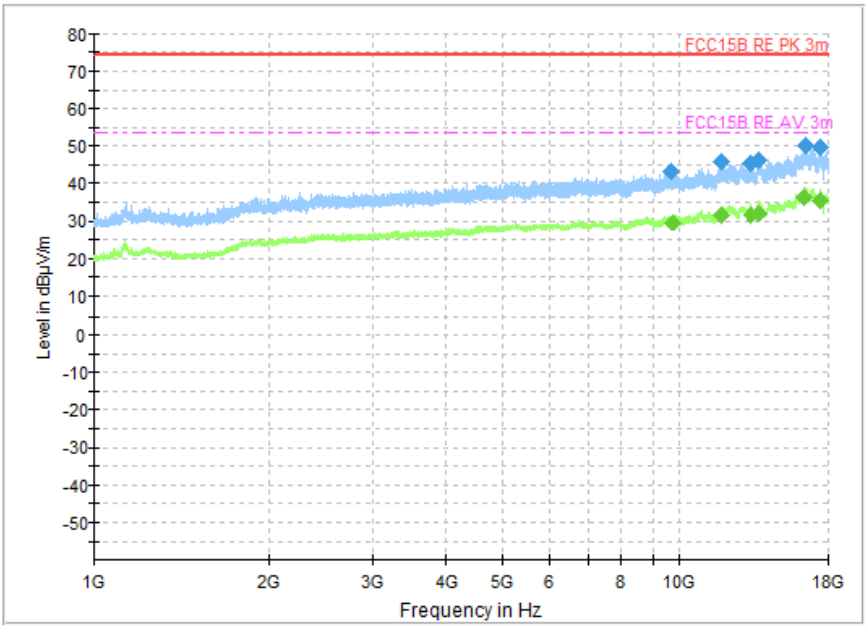

Figure A.50 Radiated Emission (Set.1, Video Player Mode, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
9725.500000	43.60	74	30.40	H	6.4	37.20
11836.000000	45.93	74	28.07	H	8.2	37.73
13256.000000	45.66	74	28.34	V	8.2	37.46
13748.500000	46.47	74	27.53	V	8.9	37.57
16488.000000	49.93	74	24.07	H	14.7	35.23
17465.000000	49.58	74	24.42	V	14.1	35.48

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
9756.500000	29.89	54	24.11	H	6.5	23.39
11812.000000	31.75	54	22.25	H	8.2	23.55
13271.500000	31.98	54	22.02	H	8.2	23.78
13683.000000	32.21	54	21.79	V	8.9	23.31
16456.000000	36.52	54	17.48	V	14.7	21.82
17435.500000	35.39	54	18.61	V	14.1	21.29

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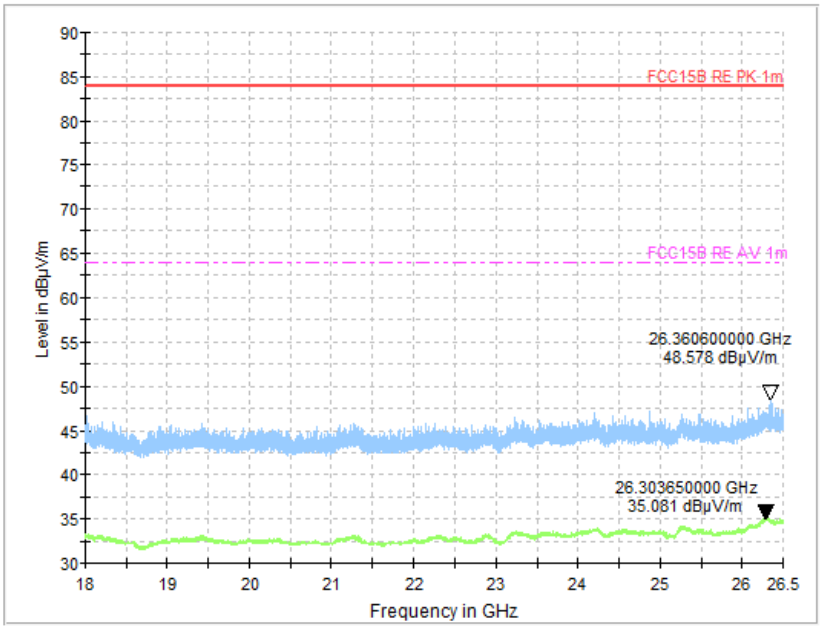

Figure A.51 Radiated Emission (Set.1, Video Player Mode, 18GHz to 26.5GHz)

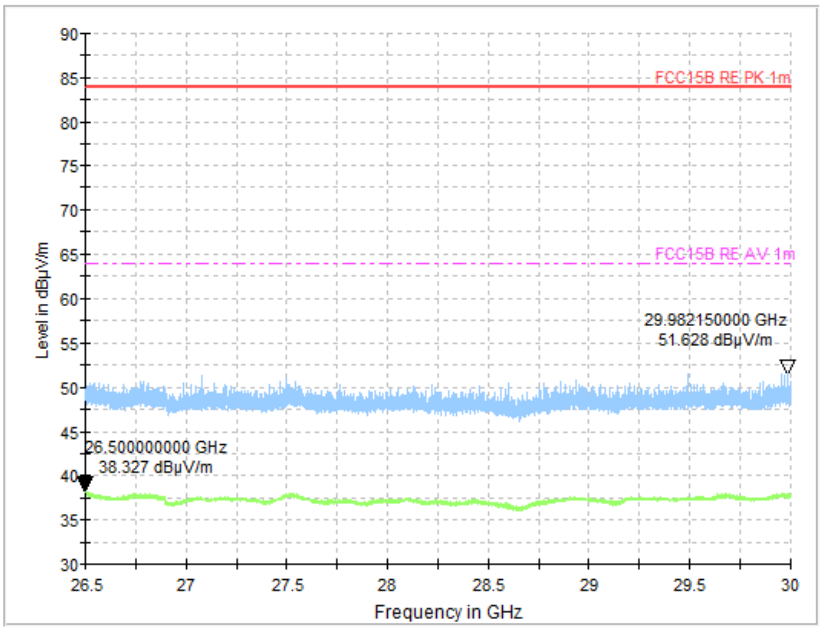

Figure A.52 Radiated Emission (Set.1, Video Player Mode, 26.5GHz to 30GHz)

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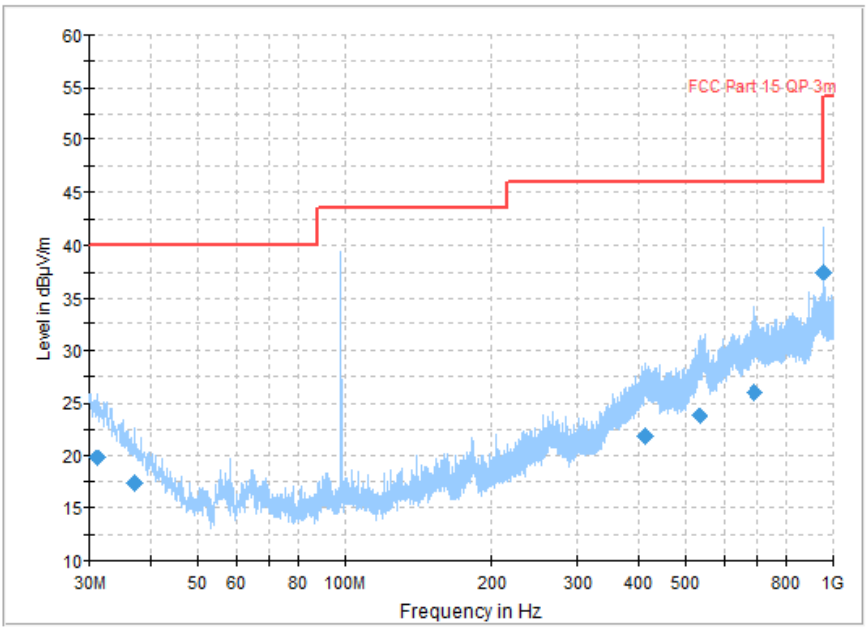

Figure A.53 Radiated Emission (Set.4,FM Mode, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
31.239444	19.72	40.00	20.28	H	-6.6	26.32
37.211100	17.36	43.50	26.14	V	-14.3	31.66
411.964444	21.83	46.00	24.17	V	-3.6	25.43
532.621667	23.83	46.00	22.17	V	-0.9	24.73
693.695556	26.08	46.00	19.92	V	1.0	25.08
959.960556	37.49	46.00	8.51	V	2.5	34.99

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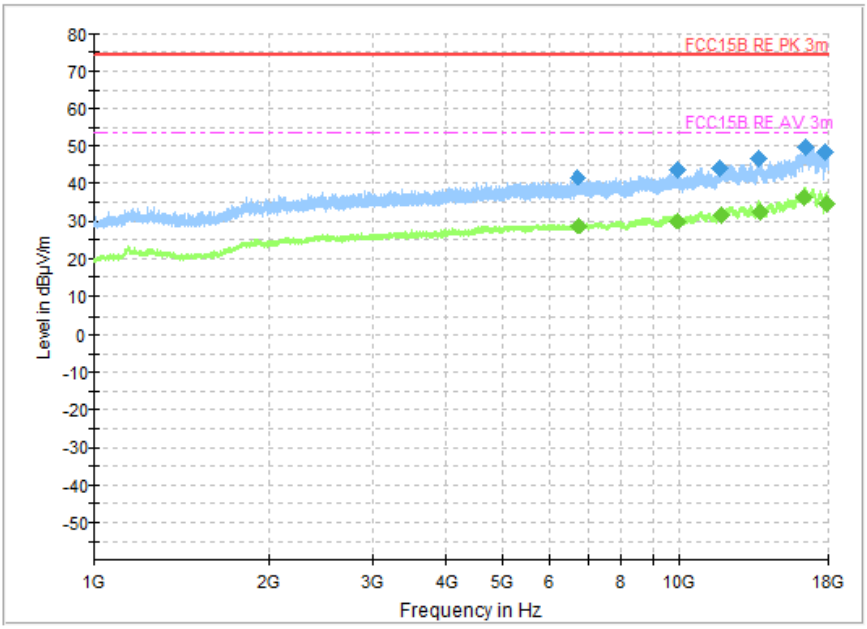

Figure A.54 Radiated Emission (Set.4, FM Mode, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
6725.500000	41.86	74	20.28	V	3.5	26.32
9932.000000	43.90	74	26.14	V	6.3	31.66
11756.000000	44.48	74	24.17	H	8.1	25.43
13754.500000	46.83	74	22.17	V	8.9	24.73
16512.000000	49.66	74	19.92	H	14.7	25.08
17794.500000	48.36	74	8.51	V	13.7	34.99

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
6759.500000	28.73	54	20.28	V	3.5	26.32
9935.500000	30.09	54	26.14	H	6.3	31.66
11833.500000	31.97	54	24.17	V	8.2	25.43
13801.000000	32.67	54	22.17	V	9.0	24.73
16446.000000	36.48	54	19.92	V	14.7	25.08
17894.000000	34.59	54	8.51	H	13.3	34.99

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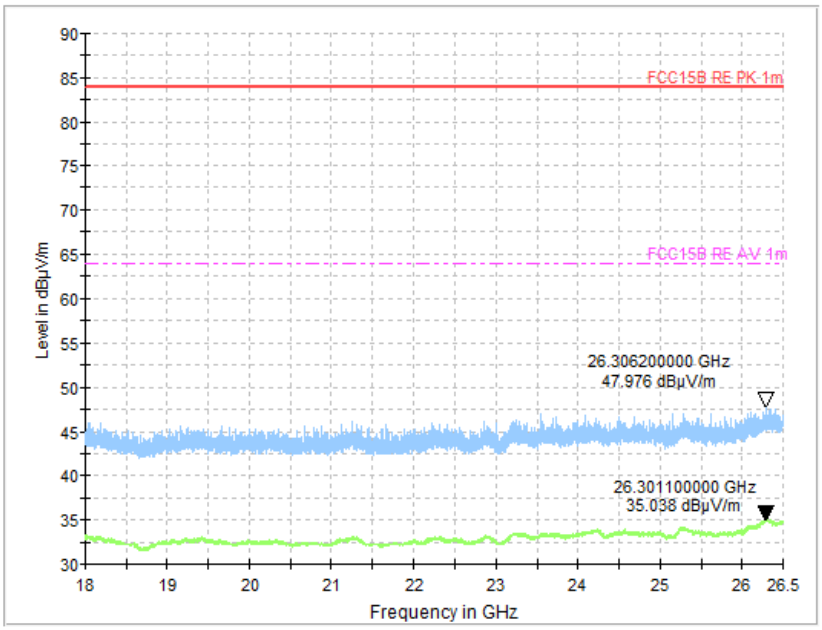

Figure A.55 Radiated Emission (Set.4, FM Mode, 18GHz to 26.5GHz)

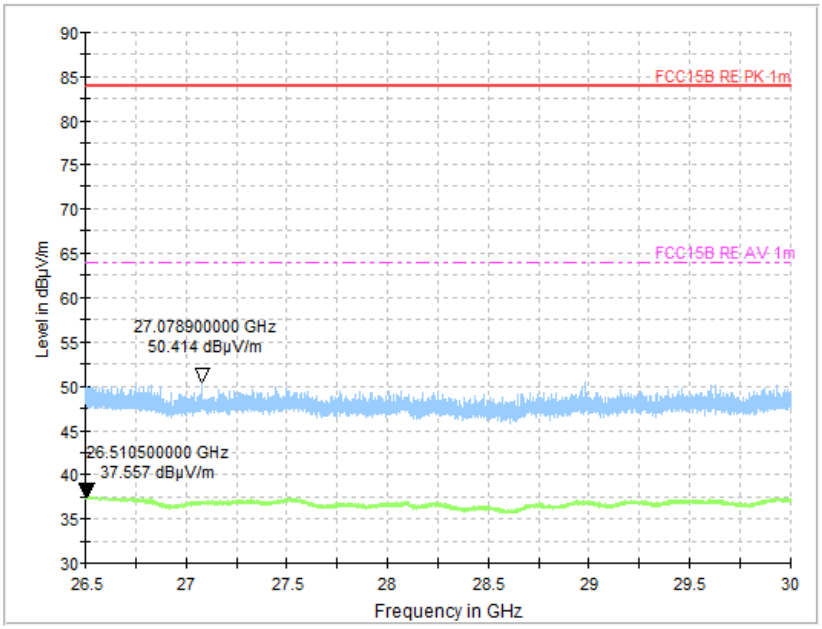

Figure A.56 Radiated Emission (Set.4, FM Mode, 26.5GHz to 30GHz)

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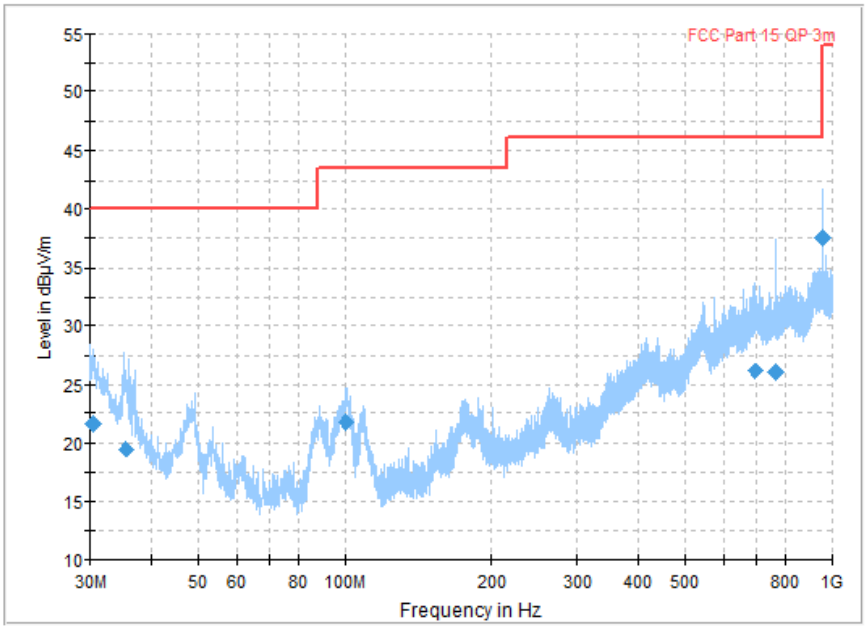

Figure A.57 Radiated Emission (Set.5, Data Transfer Mode: EUT to PC, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
30.360000	21.59	40.00	18.41	V	-6.4	27.99
35.581111	19.51	40.00	20.49	V	-9.3	28.81
100.925000	21.72	43.50	21.78	V	-13.7	35.42
698.467222	26.19	46.00	19.81	H	1.1	25.09
768.158333	25.97	46.00	20.03	V	0.7	25.27
960.014444	37.45	54.00	16.55	V	2.5	34.95

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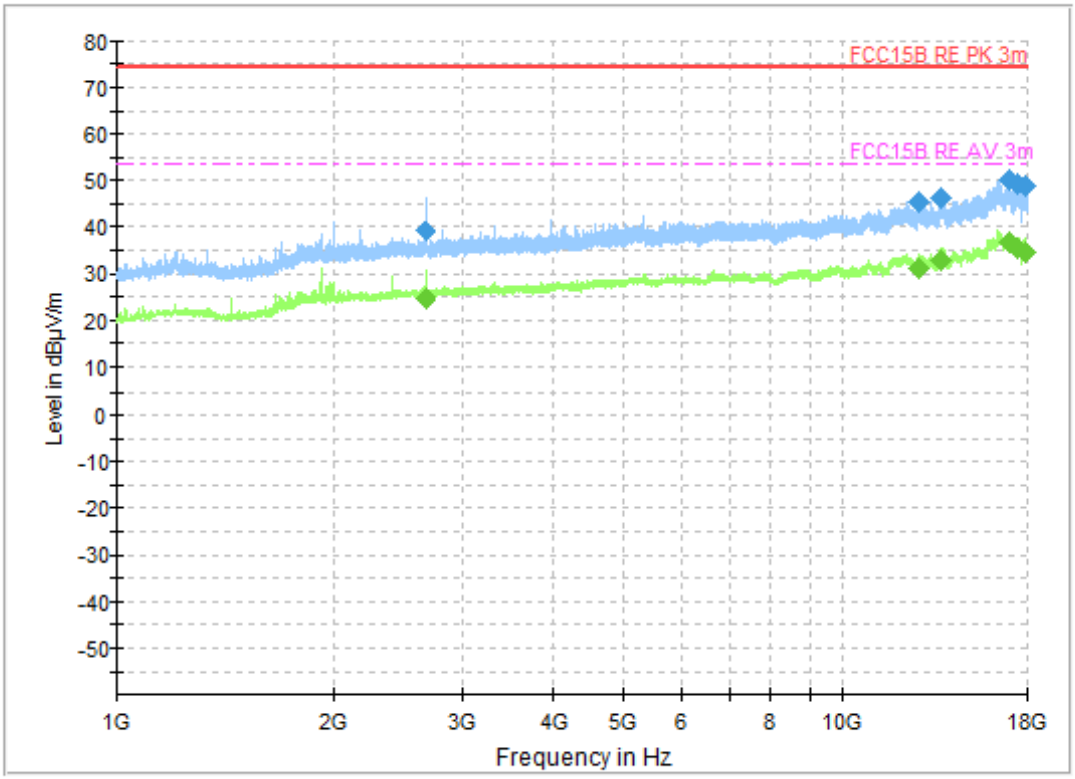

Figure A.58 Radiated Emission (Set.5, Data Transfer Mode: EUT to PC, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
2661.000000	39.29	74	34.71	V	-4.1	43.39
12759.000000	45.34	74	28.66	V	8.8	36.54
13738.000000	46.16	74	27.84	H	8.9	37.26
17022.000000	50.17	74	23.83	V	14.7	35.47
17448.000000	49.22	74	24.78	H	14.1	35.12
17908.500000	48.96	74	25.04	H	13.2	35.76

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
2661.000000	24.90	54	29.10	V	-4.1	29.00
12748.500000	31.51	54	22.49	V	8.8	22.71
13757.500000	32.96	54	21.04	V	9.0	23.96
17003.500000	36.64	54	17.36	V	14.8	21.84
17440.000000	35.55	54	18.45	V	14.1	21.45
17859.000000	34.84	54	19.16	V	13.4	21.44

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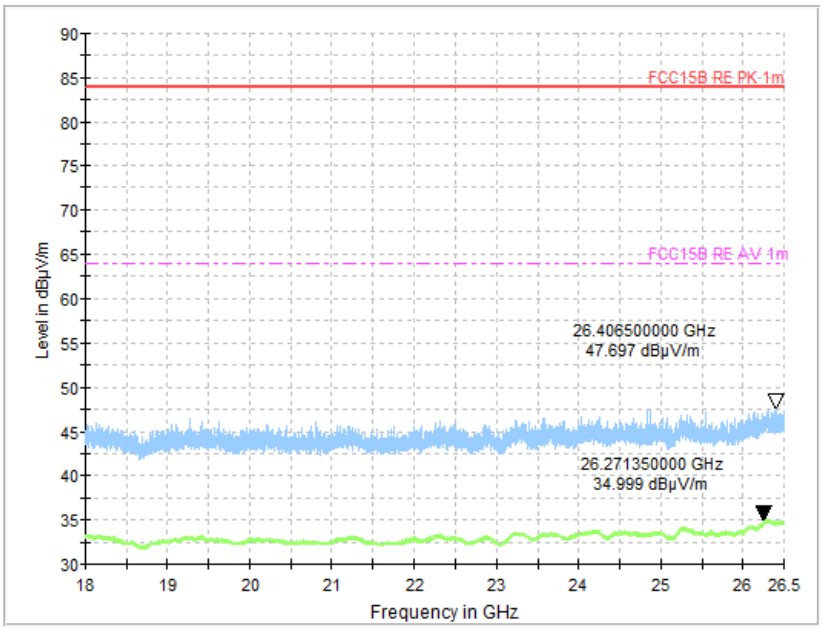

Figure A.59 Radiated Emission (Set.5, Data Transfer Mode: EUT to PC, 18GHz to 26.5GHz)

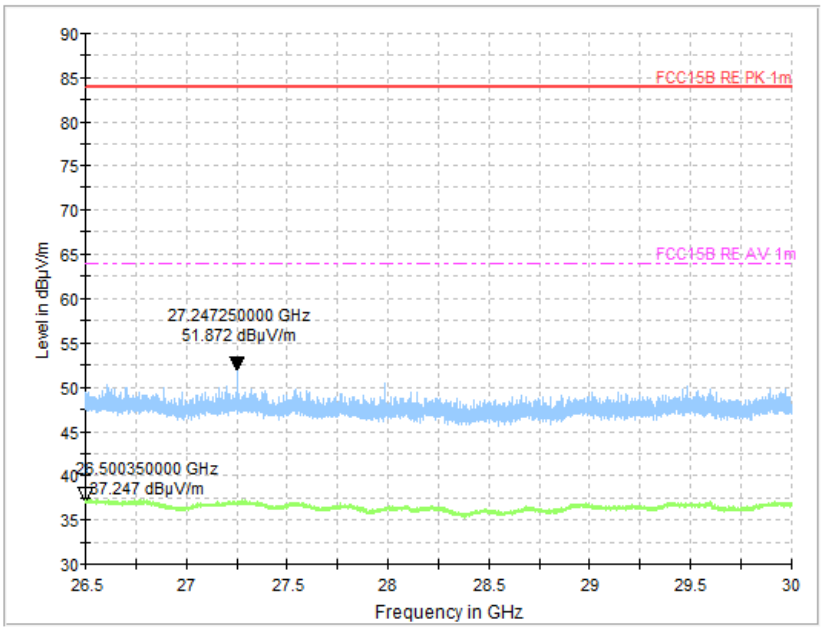

Figure A.60 Radiated Emission (Set.5, Data Transfer Mode: EUT to PC, 26.5GHz to 30GHz)

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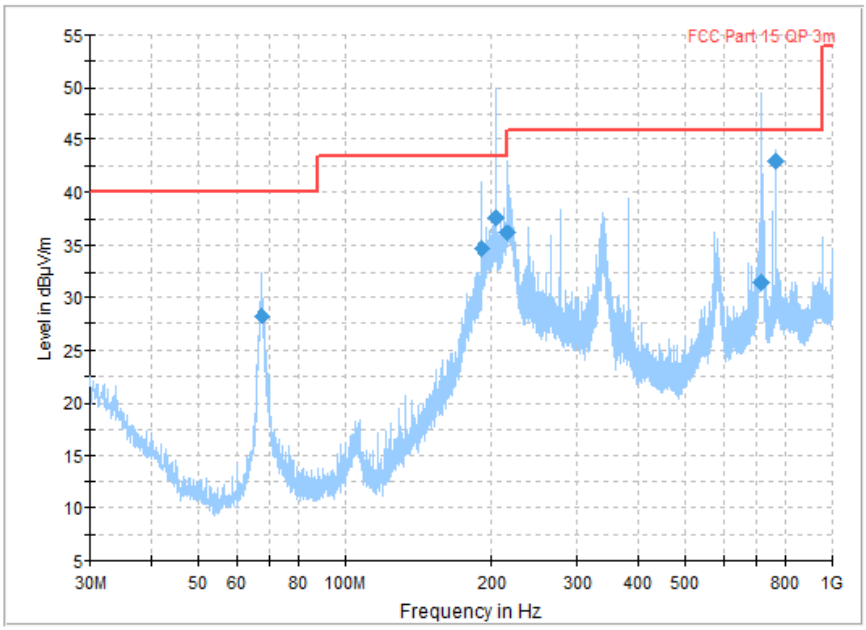

Figure A.61 Radiated Emission (Set.5, Data Transfer Mode: PC to EUT, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
67.686667	28.24	40.00	11.76	V	-14.9	43.14
191.996111	34.63	43.50	8.87	H	-12.6	47.23
204.007222	37.69	43.50	5.81	H	-11.4	49.09
216.012222	36.20	46.00	9.80	H	-11.2	47.40
719.987778	31.38	46.00	14.62	V	0.4	30.98
768.008333	42.91	46.00	14.62	H	0.7	30.98

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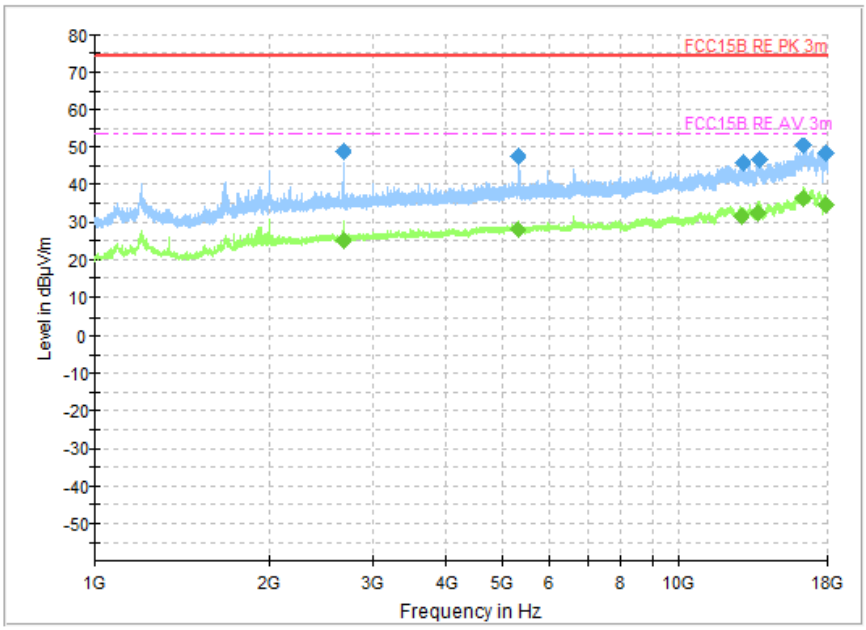

Figure A.62 Radiated Emission (Set.5, Data Transfer Mode: PC to EUT, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
2659.000000	48.68	74	25.32	V	-4.1	52.78
5313.500000	47.41	74	26.59	V	1.6	45.81
12895.500000	46.10	74	27.90	H	8.7	37.40
13782.000000	46.66	74	27.34	H	9.0	37.66
16446.500000	50.67	74	23.33	H	14.7	35.97
17928.000000	48.53	74	25.47	H	13.1	35.43

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	PMea (dBµV)
2659.500000	25.29	54	28.71	V	-4.1	29.39
5323.000000	27.96	54	26.04	V	1.6	26.36
12858.000000	31.91	54	22.09	H	8.8	23.11
13742.000000	32.67	54	21.33	V	8.9	23.77
16446.500000	36.51	54	17.49	H	14.7	21.81
17941.500000	34.57	54	19.43	V	13.0	21.57

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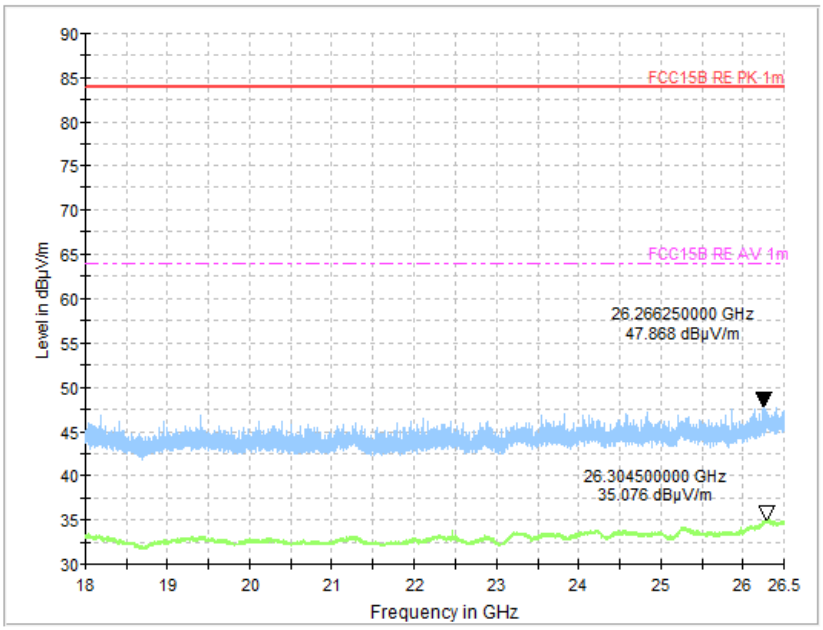

Figure A.63 Radiated Emission (Set.5, Data Transfer Mode: PC to EUT, 18GHz to 26.5GHz)

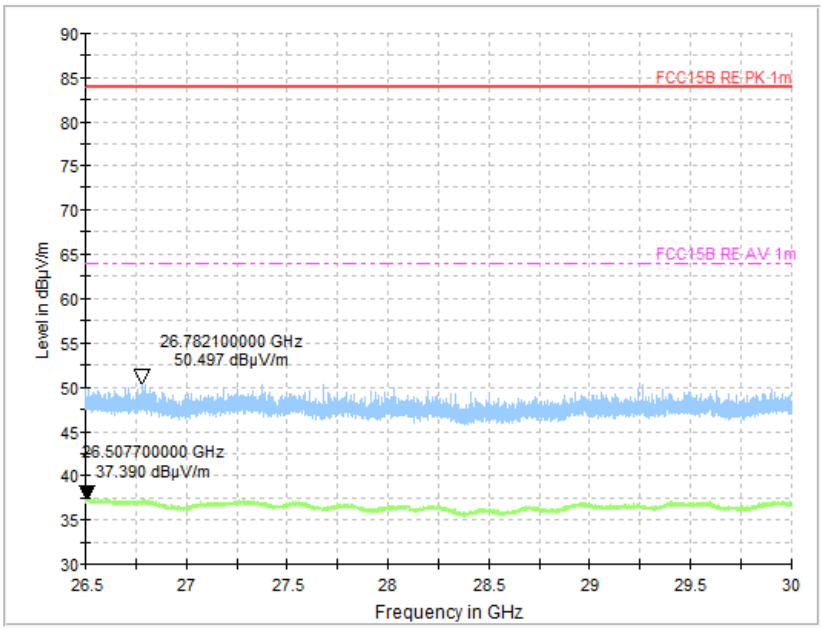

Figure A.64 Radiated Emission (Set.5, Data Transfer Mode: PC to EUT, 26.5GHz to 30GHz)

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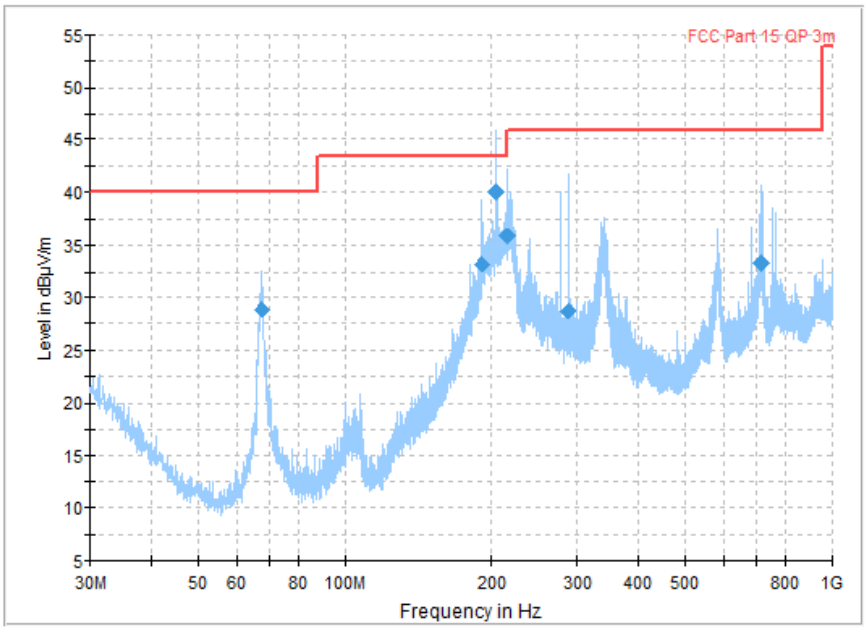

Figure A.65 Radiated Emission (Set.5, Data Transfer Mode: PC to TF Card, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
67.566111	28.90	40.00	11.10	V	-14.9	43.80
192.014444	33.16	43.50	10.34	H	-12.6	45.76
204.019444	40.03	43.50	3.47	H	-11.4	51.43
216.006667	35.80	46.00	10.20	H	-11.2	47.00
287.996111	28.76	46.00	17.24	H	-9.2	37.96
719.453333	33.32	46.00	12.68	V	0.4	32.92

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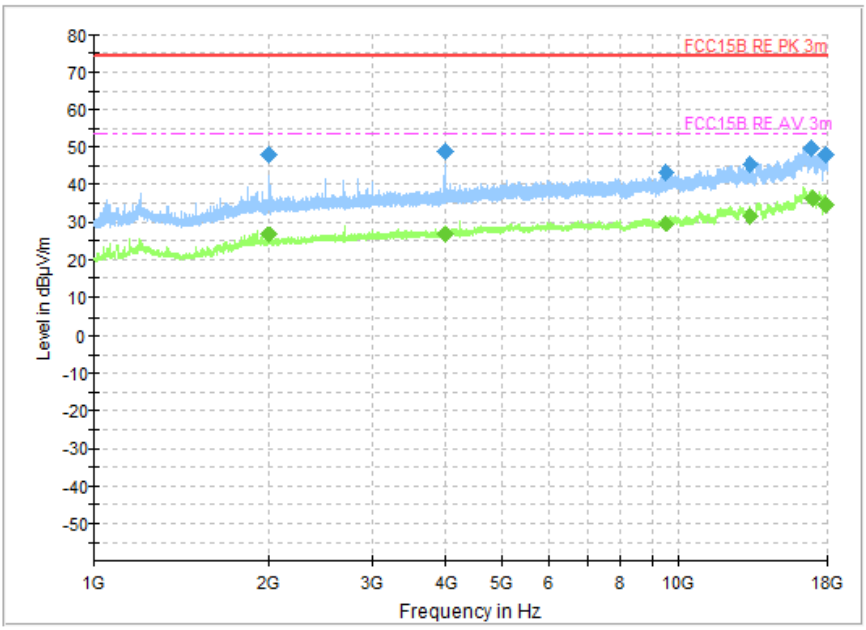

Figure A.66 Radiated Emission (Set.5, Data Transfer Mode: PC to TF Card, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
1995.500000	48.04	74	25.96	V	-5.9	53.94
3993.500000	48.83	74	25.17	V	-1.8	50.63
9525.000000	43.26	74	30.74	H	6.5	36.76
13276.000000	45.59	74	28.41	H	8.2	37.39
16917.000000	49.79	74	24.21	H	14.8	34.99
17854.500000	48.17	74	25.83	H	13.4	34.77

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
1995.500000	26.68	54	27.32	V	-5.9	32.58
3993.500000	26.70	54	27.30	V	-1.8	28.5
9525.500000	29.72	54	24.28	H	6.5	23.22
13301.000000	31.89	54	22.11	V	8.4	23.49
16996.000000	36.37	54	17.63	V	14.8	21.57
17901.500000	34.66	54	19.34	V	13.2	21.46

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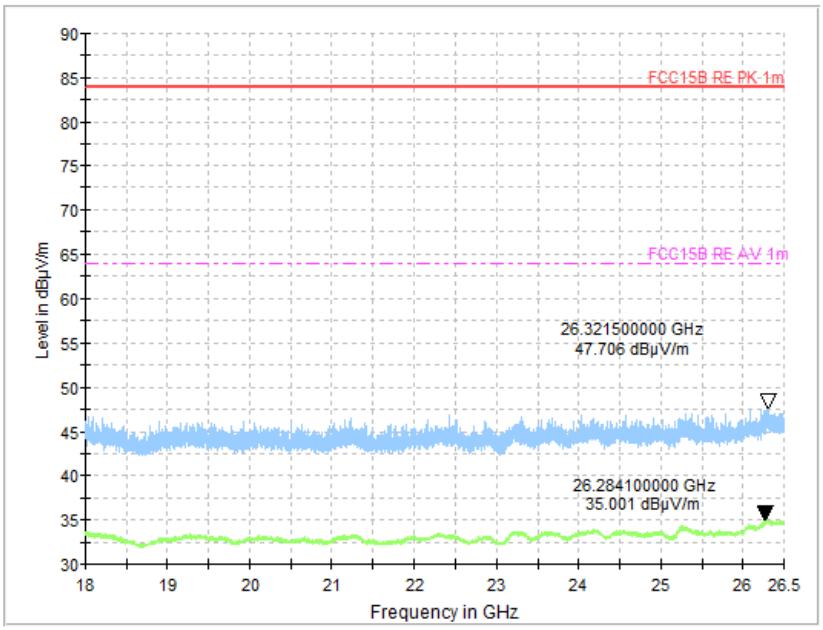

Figure A.67 Radiated Emission (Set.5, Data Transfer Mode: PC to TF Card, 18GHz to 26.5GHz)

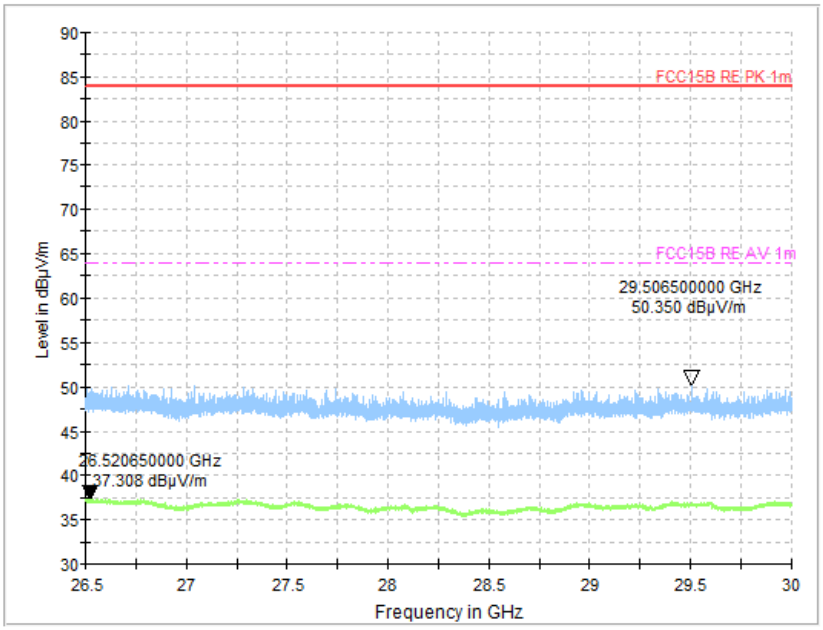

Figure A.68 Radiated Emission (Set.5, Data Transfer Mode: PC to TF Card, 26.5GHz to 30GHz)

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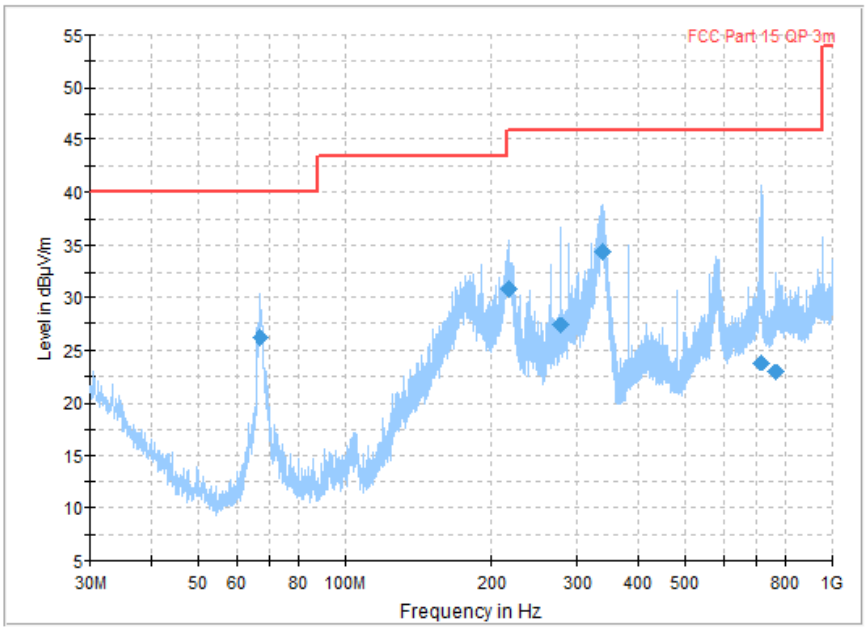

Figure A.69 Radiated Emission (Set.5, Data Transfer Mode: TF Card to PC, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
67.039444	26.20	40.00	13.80	H	-14.9	41.10
217.053889	30.86	46.00	15.14	H	-11.2	42.06
276.032778	27.35	46.00	18.65	H	-9.0	36.35
338.495556	34.35	46.00	11.65	H	-7.1	41.45
719.981111	23.83	46.00	22.17	V	0.4	23.43
767.630556	22.90	46.00	23.10	V	0.7	22.20

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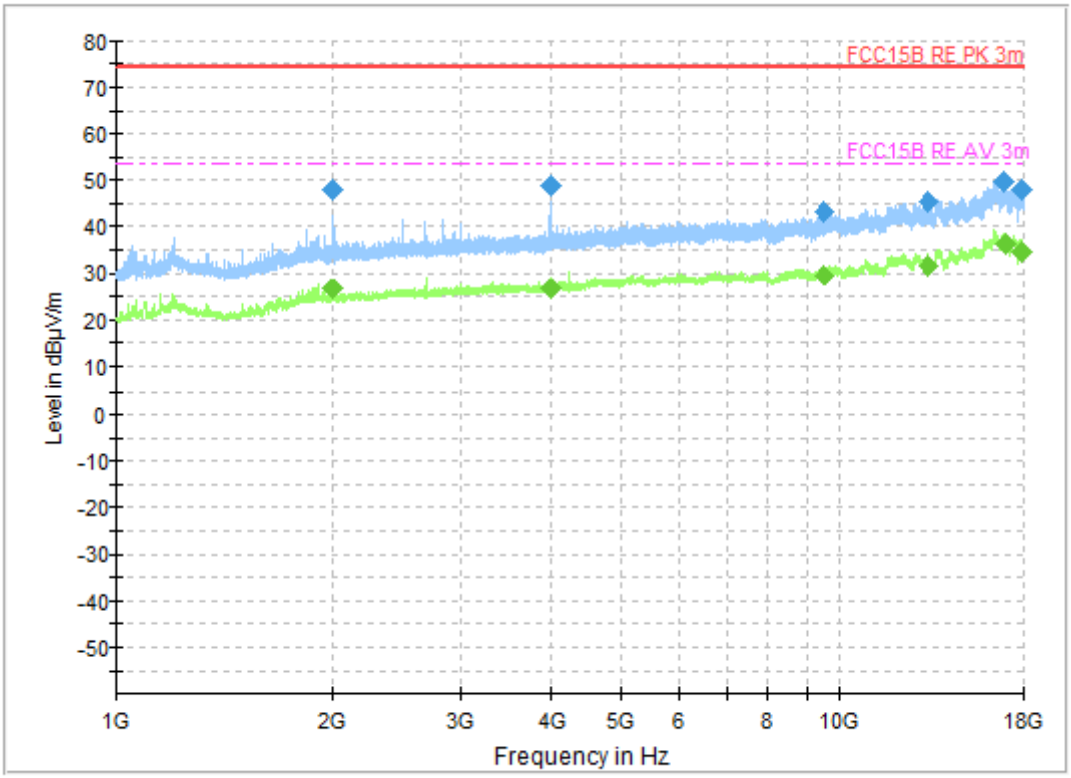

Figure A.70 Radiated Emission (Set.5, Data Transfer Mode: TF Card to PC, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
1995.500000	48.04	74	25.96	V	-5.9	53.94
3993.500000	48.83	74	25.17	V	-1.8	50.63
9525.000000	43.26	74	30.74	H	6.5	36.76
13276.000000	45.59	74	28.41	H	8.2	37.39
16917.000000	49.79	74	24.21	H	14.8	34.99
17854.500000	48.17	74	25.83	H	13.4	34.77

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
1995.500000	26.68	54	27.32	V	-5.9	32.58
3993.500000	26.70	54	27.30	V	-1.8	28.50
9525.500000	29.72	54	24.28	H	6.5	23.22
13301.000000	31.89	54	22.11	V	8.4	23.49
16996.000000	36.37	54	17.63	V	14.8	21.57
17901.500000	34.66	54	19.34	V	13.2	21.46

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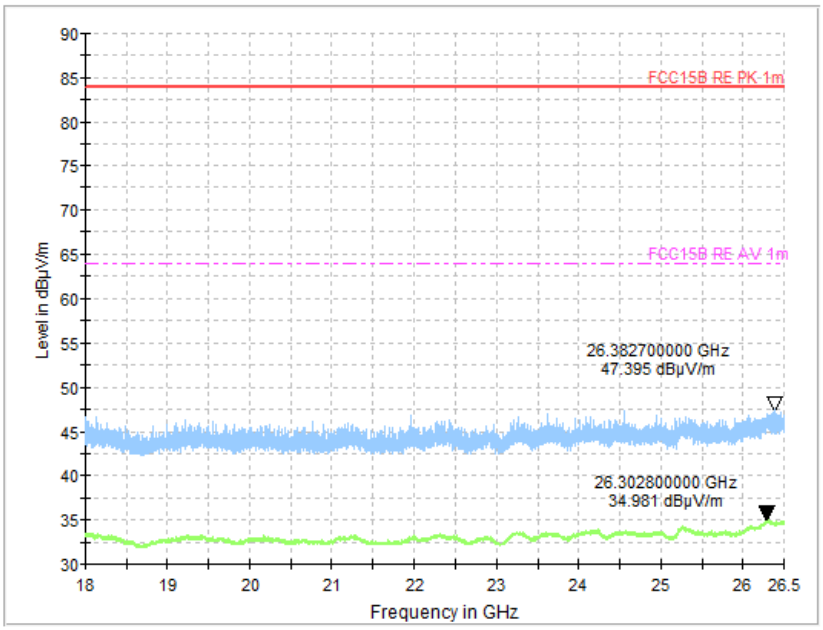

Figure A.71 Radiated Emission (Set.5, Data Transfer Mode: TF Card to PC, 18GHz to 26.5GHz)

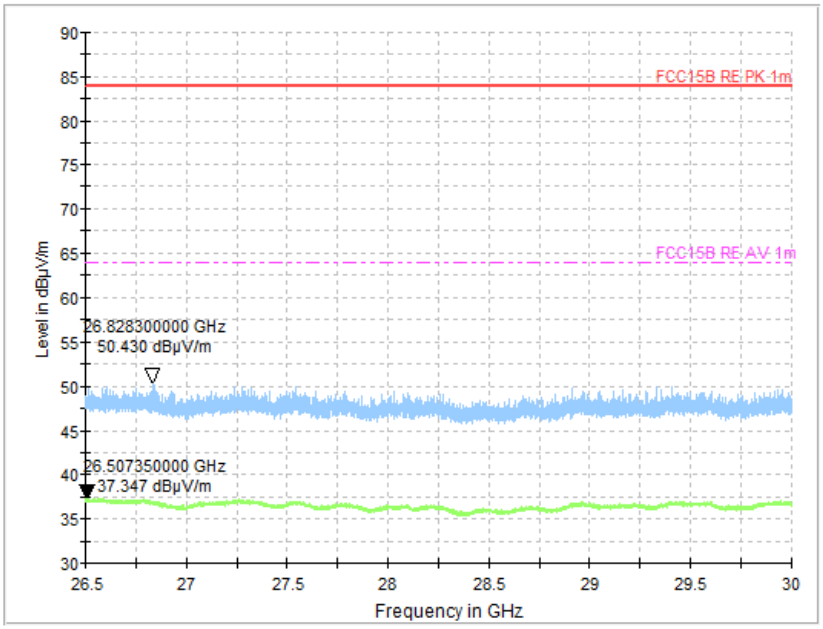

Figure A.72 Radiated Emission (Set.5, Data Transfer Mode: TF Card to PC, 26.5GHz to 30GHz)

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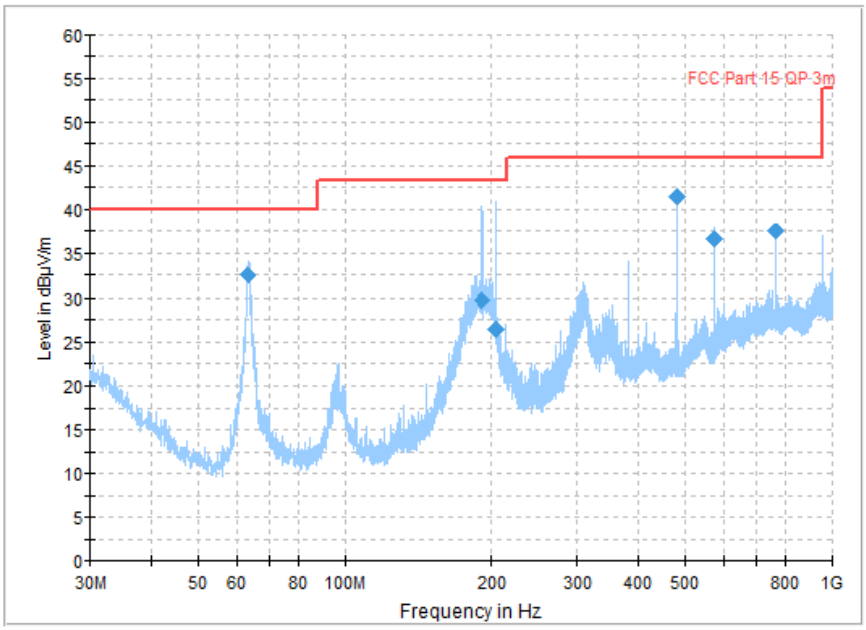

Figure A.73 Radiated Emission (Set.6, Data Transfer Mode: EUT to PC, 30MHz to 1GHz)

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	ARpl (dB/m)	P_{Mea} (dBµV)
63.219444	32.50	40.00	7.50	H	-15.3	47.80
191.983889	29.78	43.50	13.72	H	-12.6	42.38
204.001111	26.35	43.50	17.15	H	-11.4	37.75
479.996111	41.44	46.00	4.56	H	-3.6	45.04
576.002222	36.73	46.00	9.27	V	-1.8	38.53
768.008333	37.49	46.00	8.51	V	0.7	36.79

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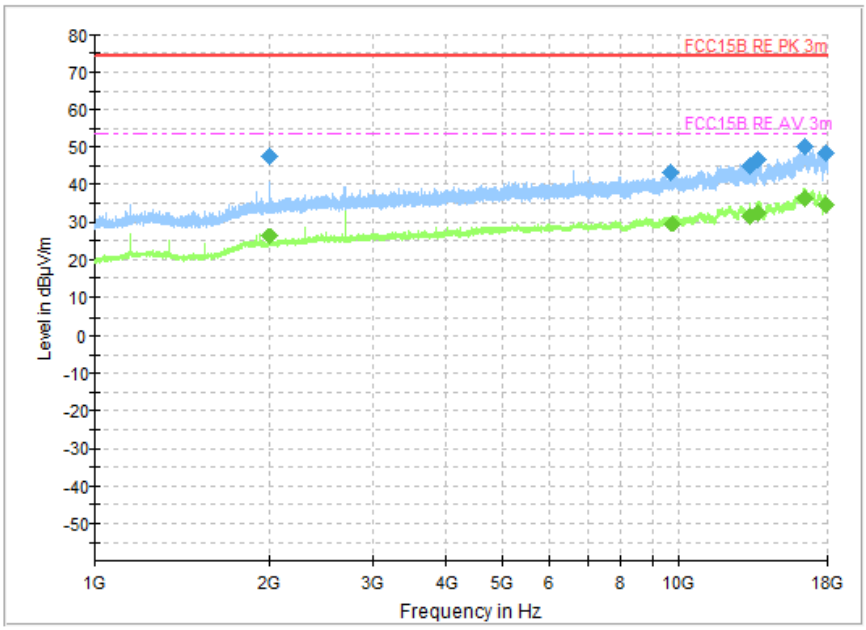

Figure A.74 Radiated Emission (Set.6, Data Transfer Mode: EUT to PC, 1GHz to 18GHz)

Final_Results_PK

Frequency(MHz)	Peak (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
1997.000000	47.49	74	26.51	V	-5.9	53.39
9733.000000	43.56	74	30.44	V	6.4	37.16
13239.000000	45.26	74	28.74	V	8.1	37.16
13739.000000	46.79	74	27.21	H	8.9	37.89
16492.000000	50.06	74	23.94	H	14.7	35.36
17879.000000	48.49	74	25.51	H	13.3	35.19

Final_Results_AVG

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P_{Mea} (dBµV)
1998.500000	26.44	54	27.56	V	-5.9	32.34
9771.000000	29.83	54	24.17	H	6.5	23.33
13254.500000	31.81	54	22.19	V	8.2	23.61
13739.000000	32.70	54	21.30	V	8.9	23.80
16476.500000	36.50	54	17.5	H	14.7	21.80
17853.000000	34.58	54	19.42	H	13.4	21.18

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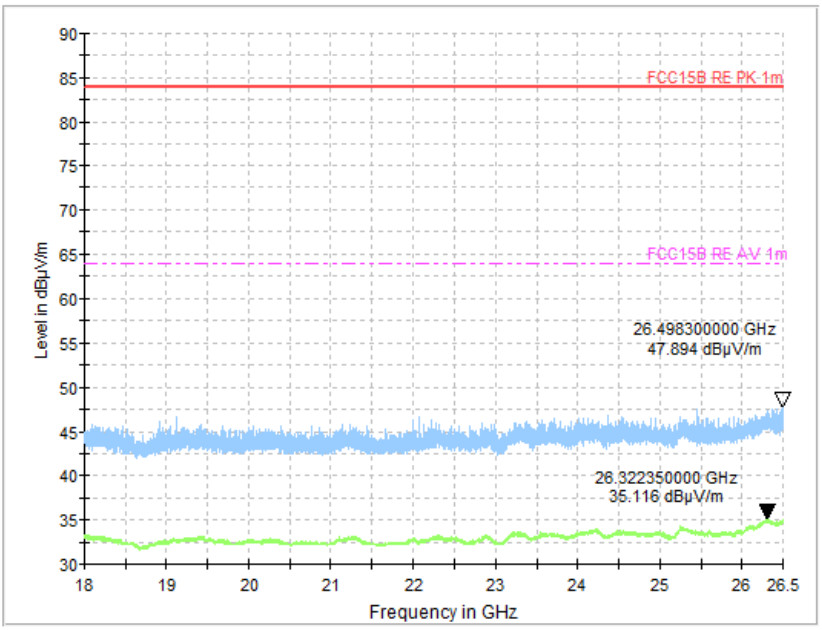

Figure A.75 Radiated Emission (Set.6, Data Transfer Mode: EUT to PC, 18GHz to 26.5GHz)

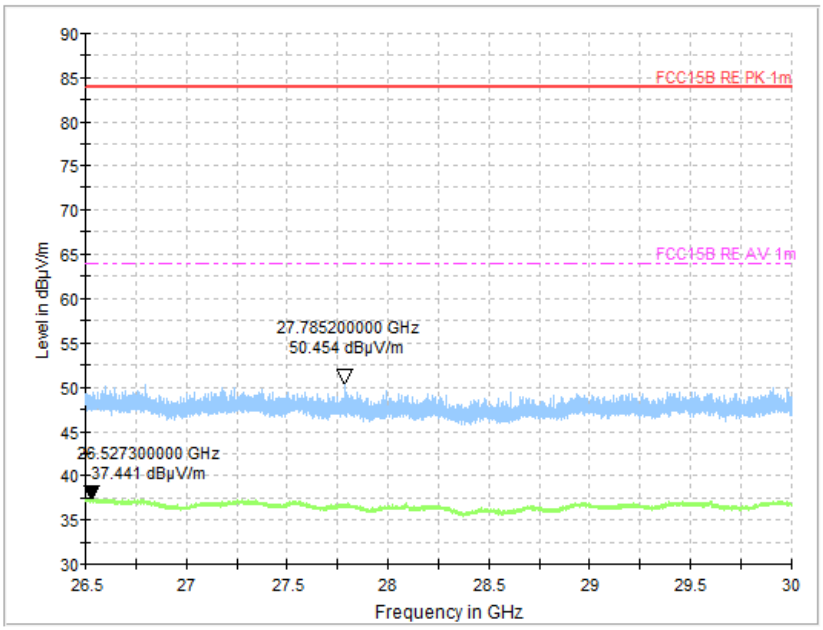

Figure A.76 Radiated Emission (Set.6, Data Transfer Mode: EUT to PC, 26.5GHz to 30GHz)

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B.2 Conducted Emission (§15.107(a))

Reference

FCC: CFR Part 15.107(a)

B.2.1 Method of measurement

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150kHz to 30MHz shall not exceed the limits. Tested in accordance with the procedures of ANSI C63.4 -2014, section 7.3.

B.2.2 EUT Operating Mode:

FM Mode: The EUT is connected to a charger for charging and open FM function.

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

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

B.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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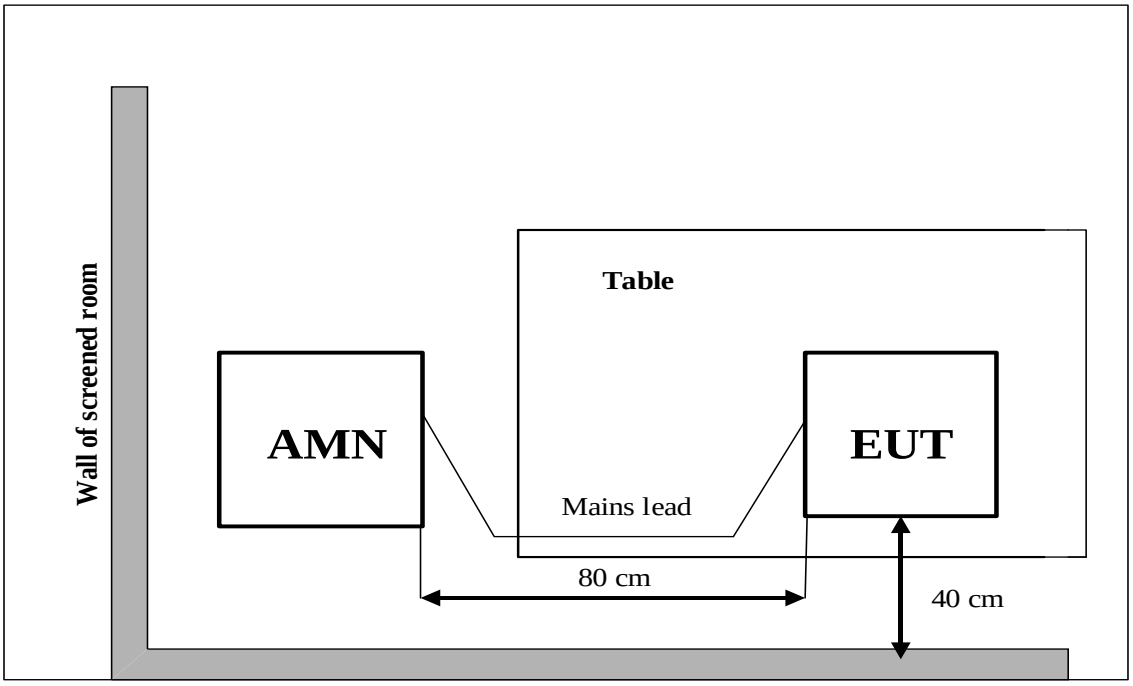
B.2.4Test set-up:



B.2.5 Test Condition in charging mode

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

RBW	Sweep Time(s)
9kHz	1

B.2.6 Measurement Results

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

Where

Corr: PathLoss + Voltage Division Factor

PMea: Measurement result on receiver.

Camera Mode

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			Set.1	
0.15 to 0.5	66 to 56	56 to 46	See Figure B.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 Mode

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			Set.1	
0.15 to 0.5	66 to 56	56 to 46	See Figure B.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 Mode

AC Input Port/ Voltage: 120V/60Hz

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

Camera Mode

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			Set.2	
0.15 to 0.5	66 to 56	56 to 46	See Figure B.4	P
0.5 to 5	56	46		
5 to 30	60	50		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Data Transfer Mode

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			Set.5	
0.15 to 0.5	66 to 56	56 to 46	See Figure B.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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Data Transfer Mode

AC Input Port/ Voltage: 120V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			Set.6	
0.15 to 0.5	66 to 56	56 to 46	See Figure B.6	P
0.5 to 5	56	46		
5 to 30	60	50		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Camera Mode

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			Set.1	
0.15 to 0.5	66 to 56	56 to 46	See Figure B.7	P
0.5 to 5	56	46		
5 to 30	60	50		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Video Player Mode

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			Set.1	
0.15 to 0.5	66 to 56	56 to 46	See Figure B.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.				

FM Mode

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			Set.3	
0.15 to 0.5	66 to 56	56 to 46	See Figure B.9	P
0.5 to 5	56	46		
5 to 30	60	50		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

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FM Mode

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			Set.4	
0.15 to 0.5	66 to 56	56 to 46	See Figure B.10	P
0.5 to 5	56	46		
5 to 30	60	50		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Data Transfer Mode

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			Set.5	
0.15 to 0.5	66 to 56	56 to 46	See Figure B.11	P
0.5 to 5	56	46		
5 to 30	60	50		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

Data Transfer Mode

AC Input Port/ Voltage: 240V/60Hz

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Result (dBμV)	Conclusion
			Set.6	
0.15 to 0.5	66 to 56	56 to 46	See Figure B.12	P
0.5 to 5	56	46		
5 to 30	60	50		
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.				

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AC Input Port/ Voltage: 120V/60Hz

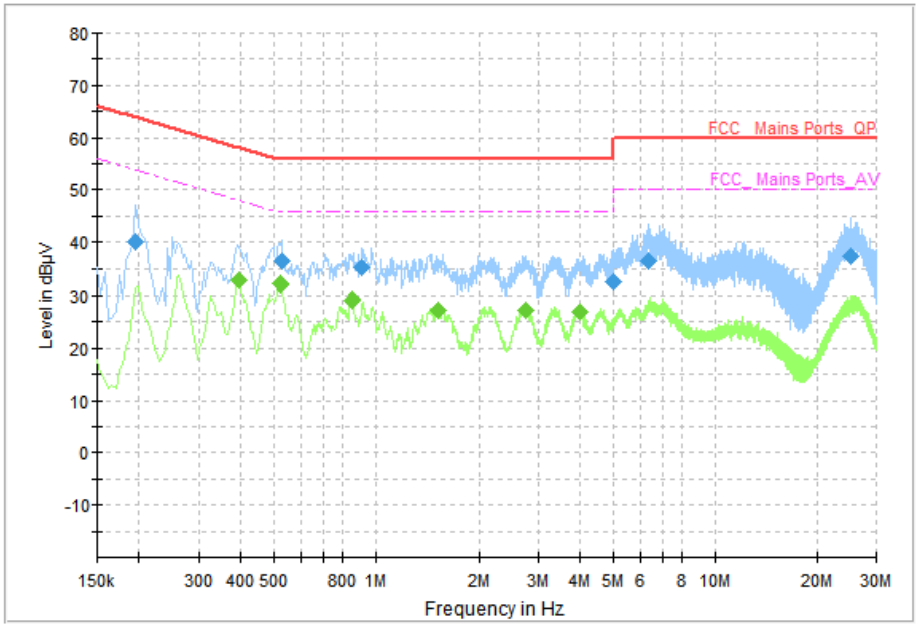

Figure B.1 Conducted Emission(Set.1, Camera Mode)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.194000	40.03	63.86	23.84	L1	9.7	30.33
0.526000	36.44	56.00	19.56	L1	9.7	26.74
0.914000	35.03	56.00	20.97	L1	9.7	25.33
4.990000	32.29	56.00	23.71	N	9.7	22.59
6.362000	36.54	60.00	23.46	N	9.8	26.74
25.262000	37.27	60.00	22.74	N	10.2	27.07

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.394000	32.67	47.98	15.31	L1	9.7	22.97
0.522000	32.26	46.00	13.74	L1	9.7	22.56
0.850000	28.98	46.00	17.02	L1	9.7	19.28
1.514000	27.30	46.00	18.70	L1	9.7	17.60
2.738000	27.31	46.00	18.69	L1	9.7	17.61
3.998000	26.93	46.00	19.07	L1	9.7	17.23

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AC Input Port/ Voltage: 120V/60Hz

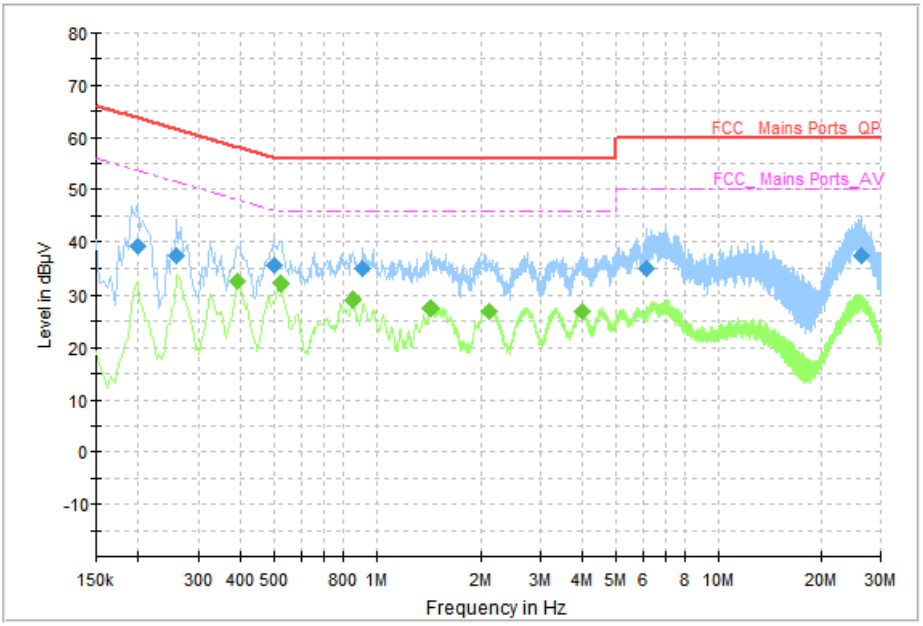

Figure B.2 Conducted Emission(Set.1, Video Player Mode)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.198000	39.18	63.69	24.52	L1	9.7	30.33
0.258000	37.22	61.50	24.28	L1	9.7	26.74
0.498000	35.64	56.03	20.40	L1	9.7	25.33
0.910000	34.95	56.00	21.05	L1	9.7	22.59
6.142000	34.90	60.00	25.10	N	9.8	26.74
26.290000	37.26	60.00	22.74	N	10.2	27.07

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.390000	32.33	48.06	15.73	L1	9.7	30.33
0.522000	32.18	46.00	13.82	L1	9.7	26.74
0.850000	29.01	46.00	16.99	L1	9.7	25.33
1.438000	27.44	46.00	18.56	L1	9.7	22.59
2.122000	26.95	46.00	19.05	L1	9.7	26.74
3.962000	26.97	46.00	19.03	L1	9.7	27.07

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AC Input Port/ Voltage: 120V/60Hz

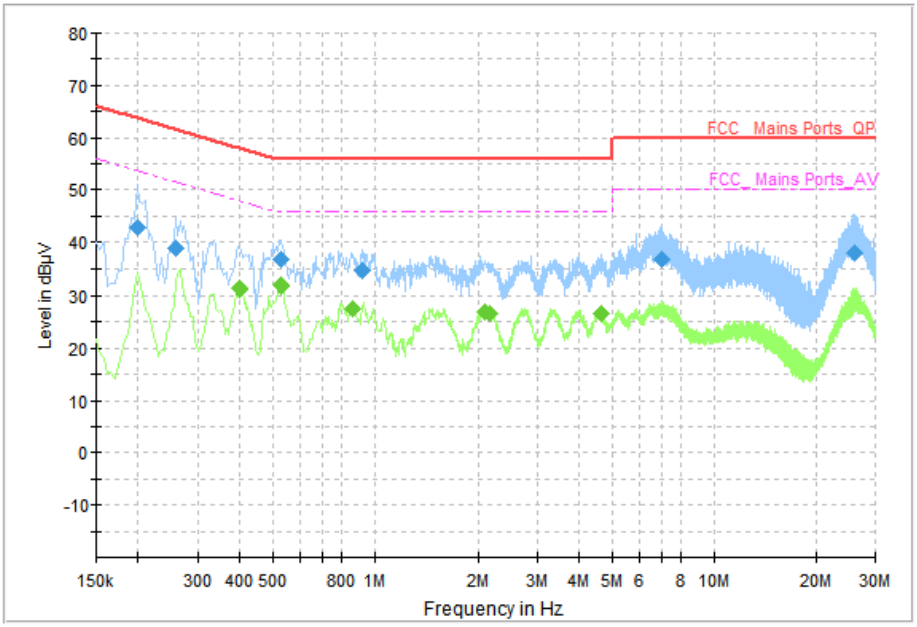

Figure B.3 Conducted Emission(Set.3, FM Mode)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.198000	42.92	63.69	20.77	L1	9.7	33.22
0.258000	38.88	61.50	22.61	L1	9.7	29.18
0.526000	36.65	56.00	19.35	L1	9.7	26.95
0.918000	34.55	56.00	21.45	L1	9.7	24.85
6.978000	36.66	60.00	23.34	N	9.8	26.86
25.914000	37.84	60.00	22.16	N	10.2	27.64

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.398000	31.29	47.90	16.61	L1	9.7	21.59
0.526000	31.74	46.00	14.26	L1	9.7	22.04
0.862000	27.60	46.00	18.40	L1	9.7	17.90
2.106000	26.96	46.00	19.04	L1	9.7	17.26
2.174000	26.72	46.00	19.28	L1	9.7	17.02
4.614000	26.55	46.00	19.45	L1	9.7	16.85

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AC Input Port/ Voltage: 120V/60Hz

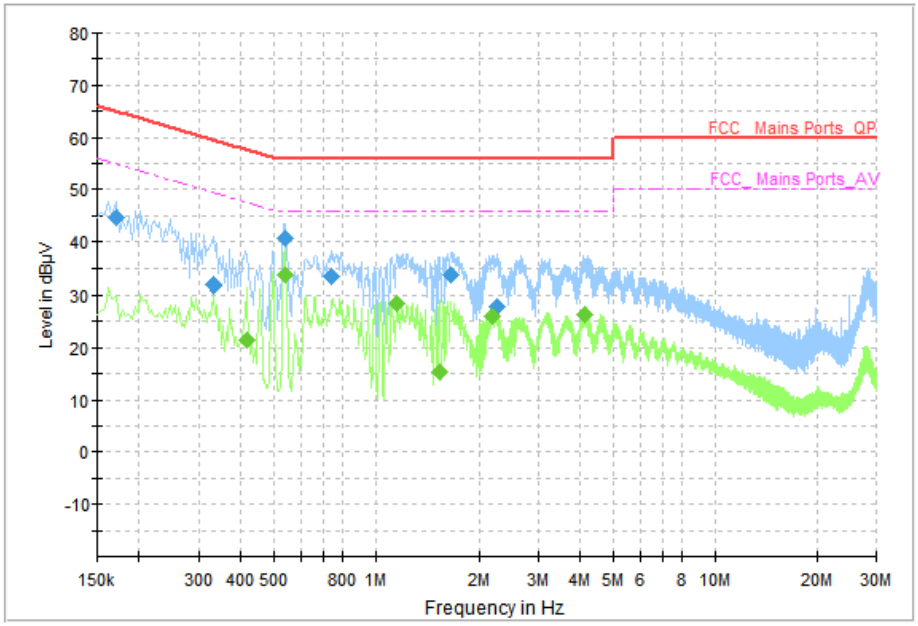

Figure B.4 Conducted Emission(Set.4, Camera Mode)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.170000	30.73	64.96	34.23	N	9.6	21.13
0.330000	31.77	59.45	27.68	N	9.6	22.17
0.538000	40.58	56.00	15.42	N	9.7	30.88
0.742000	33.33	56.00	22.67	N	9.7	23.63
1.658000	33.69	56.00	22.31	N	9.7	23.99
2.274000	27.95	56.00	28.05	L1	9.7	18.25

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.414000	21.47	47.57	26.10	N	9.7	11.77
0.538000	33.67	46.00	12.33	N	9.7	23.97
1.158000	28.56	46.00	17.44	N	9.7	18.86
1.530000	15.40	46.00	30.60	N	9.7	5.70
2.190000	26.10	46.00	19.90	N	9.7	16.4
4.102000	26.44	46.00	19.56	N	9.7	16.74

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AC Input Port/ Voltage: 120V/60Hz

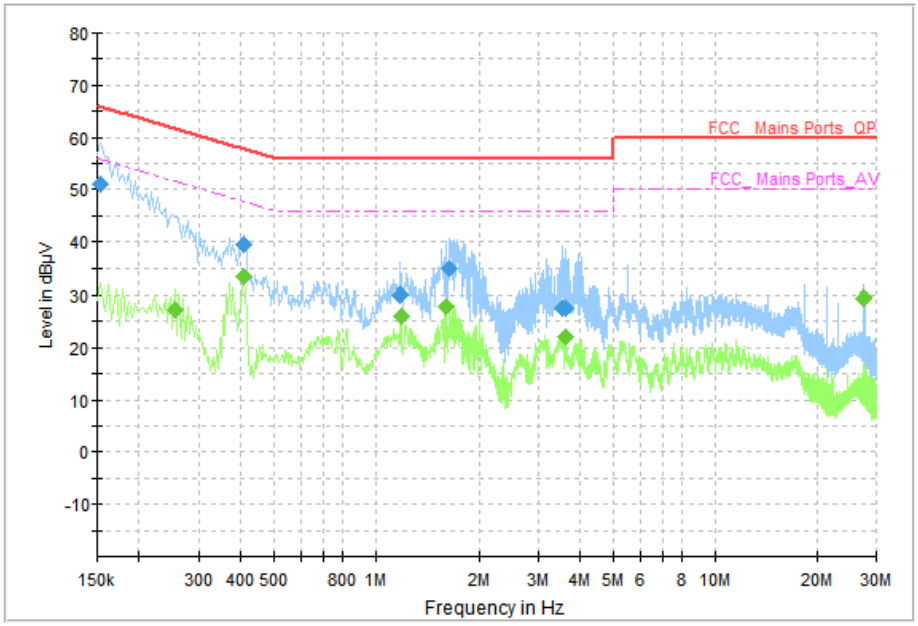

Figure B.5 Conducted Emission(Set.5, Data Transfer Mode)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.154000	51.00	65.78	14.78	L1	9.7	41.30
0.406000	39.40	57.73	18.33	N	9.7	29.70
1.182000	30.05	56.00	25.95	N	9.7	20.35
1.642000	34.98	56.00	21.02	L1	9.7	25.28
3.526000	27.51	56.00	28.49	L1	9.7	17.81
3.614000	27.54	56.00	28.46	L1	9.7	17.84

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.254000	27.17	51.63	24.45	N	9.6	17.57
0.406000	33.42	47.73	14.31	N	9.7	23.72
1.190000	26.12	46.00	19.88	L1	9.7	16.42
1.594000	27.72	46.00	18.28	L1	9.7	18.02
3.606000	21.98	46.00	24.02	L1	9.7	12.28
27.650000	29.37	50.00	20.63	L1	10.0	19.37

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AC Input Port/ Voltage: 120V/60Hz

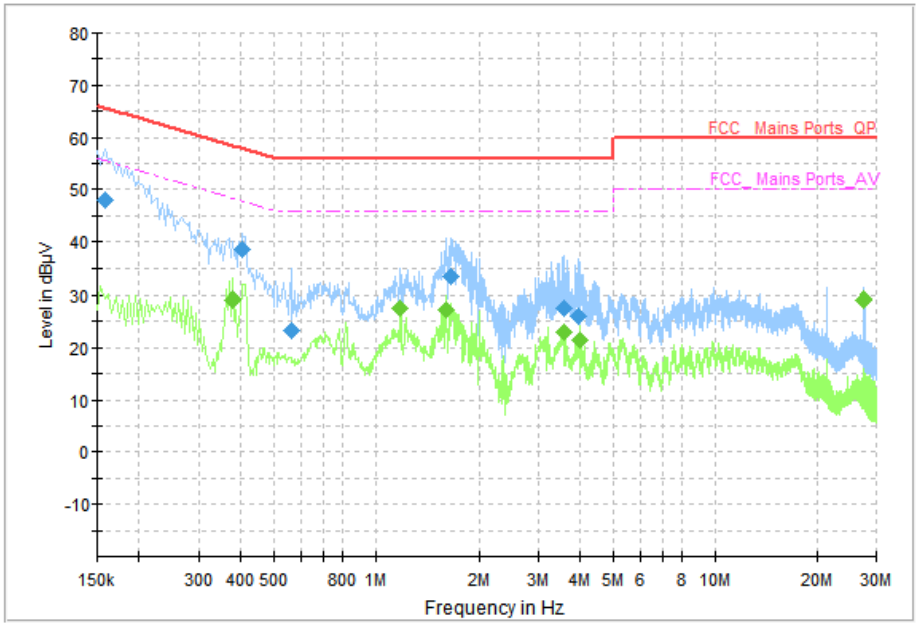

Figure B.6 Conducted Emission(Set.6, Data Transfer Mode)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.158000	48.02	65.57	17.55	L1	9.7	41.30
0.402000	38.39	57.81	19.42	N	9.6	29.70
0.562000	23.36	56.00	32.64	L1	9.7	20.35
1.658000	33.45	56.00	22.55	L1	9.7	25.28
3.566000	27.70	56.00	28.30	N	9.7	17.81
3.934000	26.05	56.00	29.95	L1	9.7	17.84

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.378000	29.01	48.32	19.31	N	9.6	41.30
1.186000	27.57	46.00	18.43	L1	9.7	29.70
1.594000	27.34	46.00	18.66	N	9.7	20.35
3.562000	22.99	46.00	23.01	L1	9.7	25.28
3.970000	21.42	46.00	24.58	L1	9.7	17.81
27.650000	29.07	50.00	20.93	N	10.1	17.84

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AC Input Port/ Voltage: 240V/60Hz

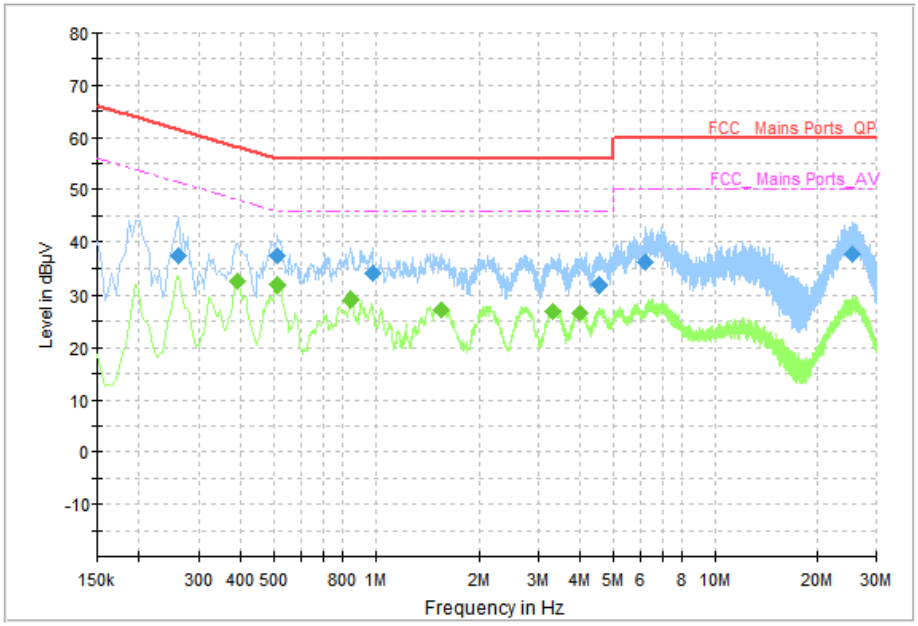

Figure B.7 Conducted Emission(Set.1, Camera Mode)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.262000	37.39	61.37	23.98	L1	9.7	27.69
0.514000	37.23	56.00	18.77	L1	9.7	27.53
0.978000	33.98	56.00	22.02	L1	9.7	24.28
4.542000	31.74	56.00	24.26	N	9.7	22.04
6.218000	35.95	60.00	24.05	N	9.8	26.15
25.378000	37.56	60.00	22.44	N	10.2	27.36

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.390000	32.53	48.06	15.53	L1	9.7	22.83
0.514000	31.89	46.00	14.11	L1	9.7	22.19
0.842000	29.19	46.00	16.81	L1	9.7	19.49
1.554000	27.18	46.00	18.82	L1	9.7	17.48
3.310000	27.02	46.00	18.98	L1	9.7	17.32
3.986000	26.80	46.00	19.20	L1	9.7	17.10

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AC Input Port/ Voltage: 240V/60Hz

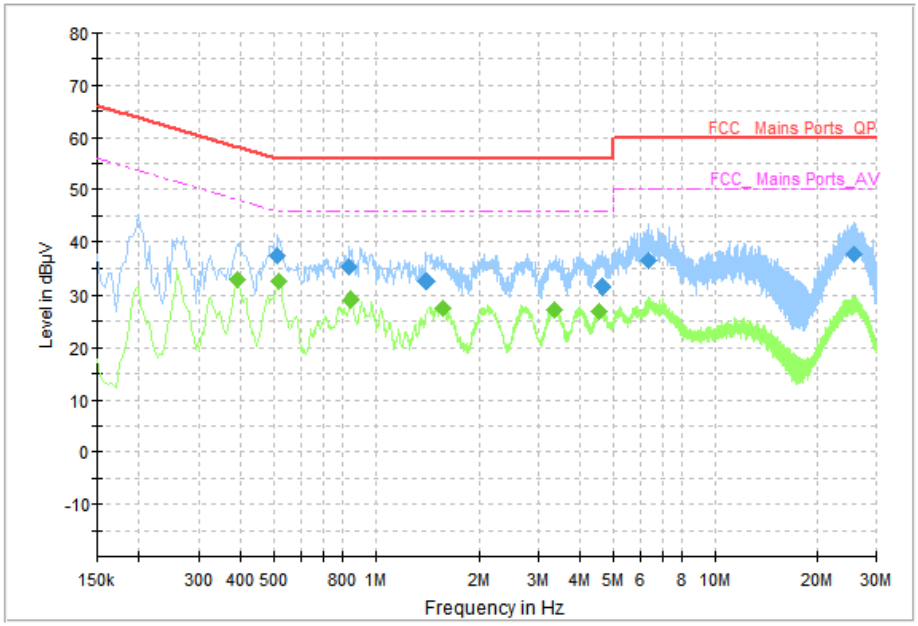

Figure B.8 Conducted Emission(Set.1, Video Player Mode)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.514000	37.33	56.00	18.67	L1	9.7	22.83
0.838000	35.04	56.00	20.96	L1	9.7	22.19
1.410000	32.52	56.00	23.48	L1	9.7	19.49
4.638000	31.48	56.00	24.52	N	9.7	17.48
6.322000	36.52	60.00	23.48	N	9.8	17.32
25.882000	37.53	60.00	22.47	N	10.2	17.10

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.390000	32.66	48.06	15.40	L1	9.7	22.83
0.518000	32.47	46.00	13.53	L1	9.7	22.19
0.846000	29.22	46.00	16.78	L1	9.7	19.49
1.558000	27.58	46.00	18.42	L1	9.7	17.48
3.350000	27.30	46.00	18.70	L1	9.7	17.32
4.558000	26.95	46.00	19.05	L1	9.8	17.10

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AC Input Port/ Voltage: 240V/60Hz

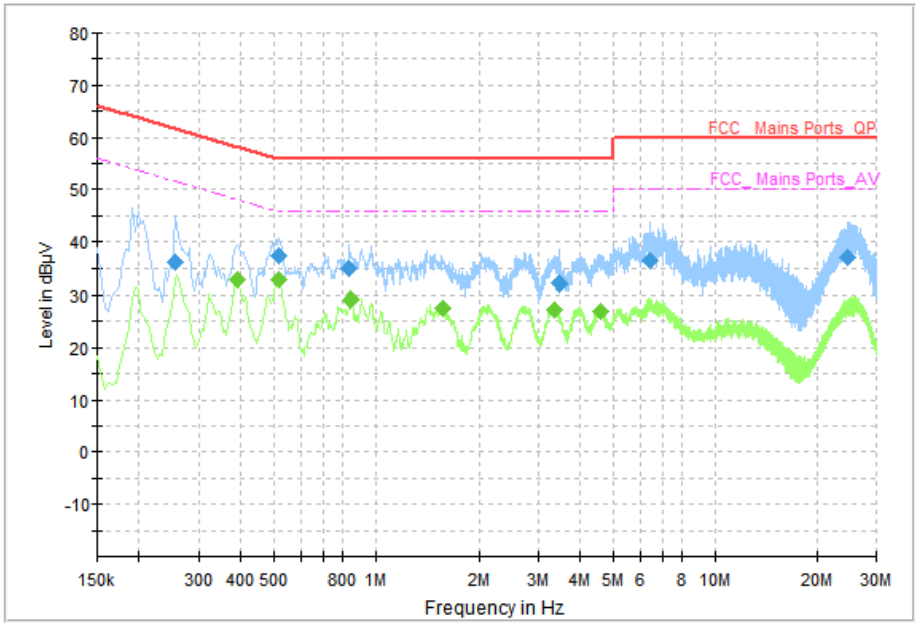

Figure B.9 Conducted Emission(Set.3, FM Mode)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.254000	36.14	61.63	25.48	L1	9.7	22.83
0.518000	37.45	56.00	18.55	L1	9.7	22.19
0.834000	34.80	56.00	21.20	L1	9.7	19.49
3.466000	32.03	56.00	23.97	L1	9.7	17.48
6.406000	36.48	60.00	23.52	N	9.8	17.32
24.766000	36.94	60.00	23.06	N	10.2	17.10

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.390000	32.64	48.06	15.43	L1	9.7	22.83
0.518000	32.64	46.00	13.36	L1	9.7	22.19
0.846000	29.18	46.00	16.82	L1	9.7	19.49
1.558000	27.58	46.00	18.42	L1	9.7	17.48
3.330000	27.23	46.00	18.77	L1	9.7	17.32
4.570000	27.02	46.00	18.98	L1	9.8	17.10

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AC Input Port/ Voltage: 240V/60Hz

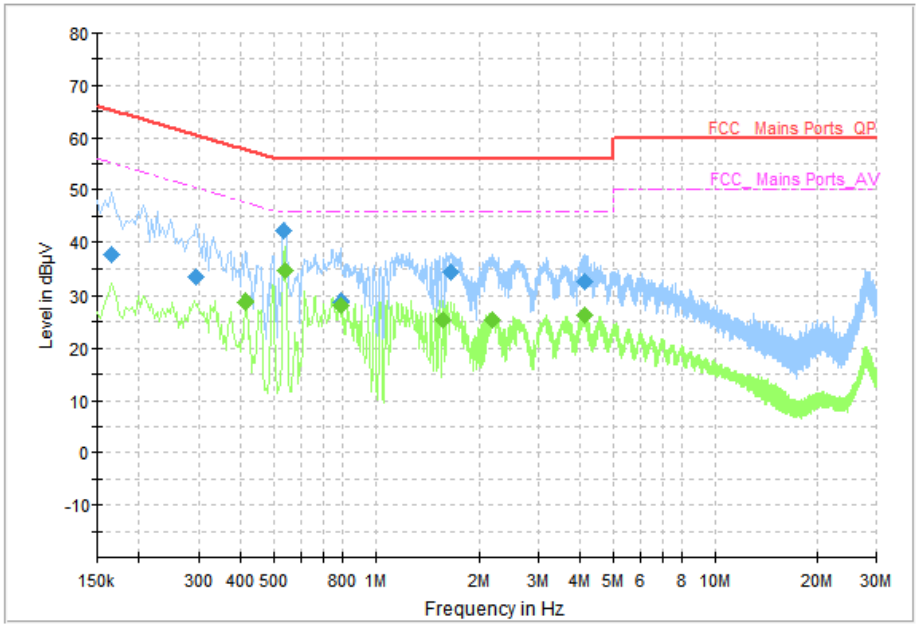

Figure B.10 Conducted Emission(Set.4, FM Mode)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.166000	37.53	65.16	27.63	N	9.6	27.93
0.294000	33.22	60.41	27.19	N	9.6	23.62
0.534000	42.13	56.00	13.87	N	9.7	32.43
0.786000	28.90	56.00	27.10	L1	9.7	19.20
1.646000	34.12	56.00	21.88	N	9.7	24.42
4.122000	32.40	56.00	23.60	N	9.7	22.70

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.410000	28.87	47.65	18.77	N	9.7	19.17
0.538000	34.60	46.00	11.40	N	9.7	24.90
0.786000	28.16	46.00	17.84	N	9.7	18.46
1.566000	25.40	46.00	20.60	N	9.7	15.70
2.194000	25.28	46.00	20.72	N	9.7	15.58
4.106000	26.20	46.00	19.80	N	9.7	16.50

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AC Input Port/ Voltage: 240V/60Hz

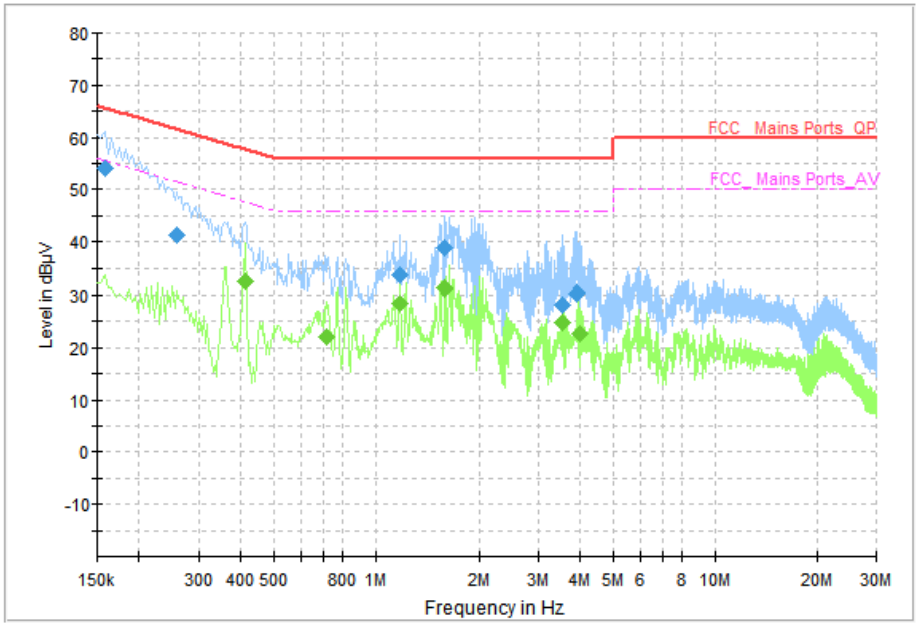

Figure B.11 Conducted Emission(Set.5, Data Transfer Mode)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.158000	54.12	65.57	11.45	N	9.6	19.17
0.258000	41.39	61.50	20.10	N	9.6	24.90
1.178000	33.52	56.00	22.48	N	9.7	18.46
1.590000	38.79	56.00	17.21	N	9.7	15.70
3.538000	28.05	56.00	27.95	N	9.7	15.58
3.894000	30.34	56.00	25.66	L1	9.7	16.50

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.410000	32.35	47.65	15.30	N	9.7	19.17
0.718000	21.93	46.00	24.07	N	9.7	24.90
1.178000	28.42	46.00	17.58	N	9.7	18.46
1.590000	31.19	46.00	14.81	N	9.7	15.70
3.542000	24.73	46.00	21.27	L1	9.7	15.58
3.998000	22.62	46.00	23.38	L1	9.7	16.50

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AC Input Port/ Voltage: 240V/60Hz

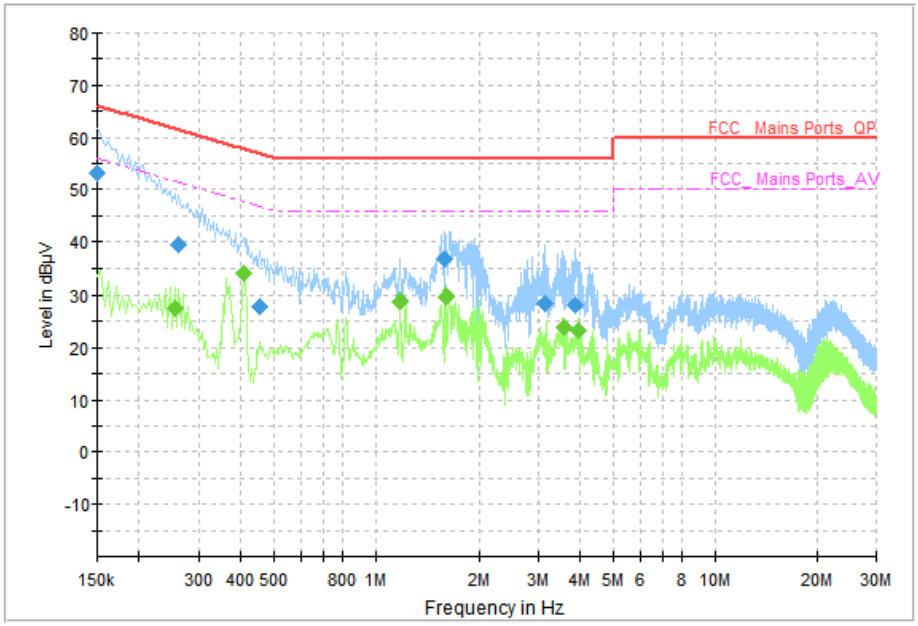

Figure B.12 Conducted Emission(Set.6, Data Transfer Mode)

Final_Result_QPK

Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.150000	53.31	66.00	12.69	L1	9.6	44.02
0.262000	39.38	61.37	21.99	L1	9.7	41.16
0.454000	27.80	56.80	29.00	L1	9.7	36.4
1.586000	36.61	56.00	19.39	N	9.7	27.3
3.130000	28.35	56.00	27.65	L1	9.7	28.45
3.842000	28.18	56.00	27.82	L1	9.7	26.14

Final_Result_AVG

Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P_{Mea} (dBµV)
0.234	43.31	52.31	8.99	N	9.7	33.61
0.346	33.56	49.06	15.5	N	9.7	23.86
0.578	27.19	46	18.81	N	9.7	17.49
1.638	24.63	46	21.37	N	9.7	14.93
3.886	27.52	46	18.48	L1	9.7	17.82
24.07	36.19	50	13.81	L1	10.3	25.89

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

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