



TEST REPORT

Application No.: ZR/2020/A0005
Applicant: Motorola Mobility LLC
Address of Applicant: 222 W Merchandise Mart Plaza, Suite 1800, Chicago IL 60654, USA
Manufacturer: Motorola Mobility LLC
Address of Manufacturer: 222 W Merchandise Mart Plaza, Suite 1800, Chicago IL 60654, USA
EUT Description: Mobile Phone
Model No.: XT2091-3/XT2091-8
Trade Mark: Motorola/lenovo
FCC ID: IHDT56ZK2
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2020/8/27
Date of Test: 2020/9/3 to 2020/9/18(for original report ZR/2020/8000407-01)
2020/10/16 to 2020/10/27(for new report ZR/2020/A000502-01)
Date of Issue: 2021/8/11

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Simon Ling

Wireless Laboratory Manager



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Wireless Laboratory

1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi'an, Shaanxi, China 710086
中国·西安·沣东新城科源三路137号康鸿橙方科技园1号楼D单元1层 邮编: 710086

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020/10/30		Original
02		2021/07/24	Leah Chen	1. Modify data conversion error of antenna height 2. Updated equipment list
03		2021/8/11	Leah Chen	1.Updated Support Units, Test facility and Test Location

*This report supersedes our previous report ZR/2020/A000502, issued on 2020-10-30, which is hereby deemed null and void.

Authorized for issue by:	
Prepared By	 (Leah Chen) /Engineer
Checked By	 (Daniel Wang) /Reviewer



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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (above 1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass

Internal Source	Upper Frequency
Below 1.705MHz	30MHz
1.705MHz to 108MHz	1GHz
108MHz to 500MHz	2GHz
500MHz to 1GHz	5GHz
Above 1GHz	5th harmonic of the highest frequency or 40GHz, whichever is lower



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Remark:

This test report (Report No.: ZR/2020/A000502-01) is base on the original test report (Report No.: ZR/2020/8000407-01).

Review this report and original report, this report just changing the parts according to the declaration letter from client.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report only radiated spurious emissions were performed based on the worst case of the original report with report number ZR/2020/8000407-01 and other test data in this report are base on the previous report with report number ZR/2020/8000407-01.



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4 General Information

Product Name:	Mobile Phone		
Model No.(EUT):	XT2091-3/XT2091-8		
Trade Mark:	Motorola/lenovo		
FCC ID:	IHDT56ZK2		
Hardware Version:	PVT		
Software Version:	QZC30.Q4-22		
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)
	GSM850	824~849	869~894
	GSM1900	1850~1910	1930~1990
	WCDMA Band II	1850~1910	1930~1990
	WCDMA Band IV	1710~1755	2110~2155
	WCDMA Band V	824~849	869~894
	LTE Band 2	1850~1910	1930~1990
	LTE Band 4	1710~1755	2110~2155
	LTE Band 5	824~849	869~894
	LTE Band 7	2500~2570	2620~2690
	LTE Band 26	814~849	859~894
	LTE Band 38	2570~2620	2570~2620
	LTE Band 41	2535~2655	2535~2655
	WIFI 2.4G	2412~2462	2412~2462
	WIFI 5G	5150~5850	5150~5850
	BT	2402~2480	2402~2480
Adapter Information 1#:	FM	87.5~108	
	NFC	13.56	
	GNSS	1559~1610	
	Model:	MC-201	
Adapter Information 1#:	Brand Name:	Motorola(Acbel)	
	SEC:	I/P: 100 - 240 Vac, 700mA, O/P: 5/10/12Vdc, 3000/2000/16700mA	
	Model:	MC-202	
Adapter Information 1#:	Brand Name:	Motorola(Acbel)	
	SEC:	I/P: 100 - 240 Vac, 0.6 A, O/P:5.0V,3A;9.0V,2.23A ;12.0V,2.23A ;12.0V,1.67 A;10V,2.25A	
	Model:	MC-203	
Adapter Information 1#:	Brand Name:	Motorola(Acbel)	
	SEC:	I/P: 100 - 240 Vac, 0.6 A, O/P:5.0V,3A;9.0V,2.23A ;12.0V,2.23A ;12.0V,1.67 A;10V,2.25A	



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Adapter Information 1#:	Model:	MC-205
	Brand Name:	Motorola(Acbel)
	SEC:	I/P: 100 - 240 Vac, 0.6 A, O/P:5.0V,3A;9.0V,2.23A ;12.0V,2.23A ;12.0V,1.67 A;10V,2.25A
Adapter Information 1#:	Model:	MC-206
	Brand Name:	Motorola(Acbel)
	SEC:	I/P: 100 - 240 Vac, 0.6 A, O/P:5.0V,3A;9.0V,2.23A ;12.0V,2.23A ;12.0V,1.67 A;10V,2.25A
Adapter Information 1#:	Model:	MC-209
	Brand Name:	Motorola(Acbel)
	SEC:	I/P: 100 - 240 Vac, 0.6 A, O/P:5.0V,3A;9.0V,2.23A ;12.0V,2.23A ;12.0V,1.67 A;10V,2.25A
Adapter Information 2#:	Model:	MC-201
	Brand Name:	Motorola(Chenyang)
	SEC:	I/P: 100 - 240 Vac, 0.6 A, O/P:5.0V,3A;9.0V,2.23A ;12.0V,2.23A ;12.0V,1.67 A;10V,2.25A
Adapter Information 2#:	Model:	MC-202
	Brand Name:	Motorola(Chenyang)
	SEC:	I/P: 100 - 240 Vac, 0.6 A, O/P:5.0V,3A;9.0V,2.23A ;12.0V,2.23A ;12.0V,1.67 A;10V,2.25A
Adapter Information 2#:	Model:	MC-203
	Brand Name:	Motorola(Chenyang)
	SEC:	I/P: 100 - 240 Vac, 0.6 A, O/P:5.0V,3A;9.0V,2.23A ;12.0V,2.23A ;12.0V,1.67 A;10V,2.25A
Adapter Information 2#:	Model:	MC-204
	Brand Name:	Motorola(Chenyang)
	SEC:	I/P: 100 - 240 Vac, 0.6 A, O/P:5.0V,3A;9.0V,2.23A ;12.0V,2.23A ;12.0V,1.67 A;10V,2.25A
Adapter Information 2#:	Model:	MC-205
	Brand Name:	Motorola(Chenyang)
	SEC:	I/P: 100 - 240 Vac, 0.6 A, O/P:5.0V,3A;9.0V,2.23A ;12.0V,2.23A ;12.0V,1.67 A;10V,2.25A
Adapter Information 2#:	Model:	MC-206



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	Brand Name:	Motorola(Chenyang)
	SEC:	I/P: 100 - 240 Vac, 0.6 A, O/P:5.0V,3A;9.0V,2.23A ;12.0V,2.23A ;12.0V,1.67 A;10V,2.25A
Adapter Information 2#:	Model:	MC-207
	Brand Name:	Motorola(Chenyang)
	SEC:	I/P: 100 - 240 Vac, 0.6 A, O/P:5.0V,3A;9.0V,2.23A ;12.0V,2.23A ;12.0V,1.67 A;10V,2.25A
Battery Information 1#:	Model:	MC50
	Brand Name:	Motorola (ATL)
	Normal Voltage:	3.87V
	Rated capacity:	5640mAh
USB cable Information1#:	Model:	SC18C24367
	Brand Name:	Motorola (Saibao)
USB cable Information2#:	Model:	SC18C24368
	Brand Name:	Motorola (Luxshare)
Earphone Information1#:	Model:	NLD-EM301K-15SF v1
	Brand Name:	Motorola (New Leader)

Note: The adapter has multiple models from one manufacturer, only the pins are different and the other components are the same

* GNSS = GPS + Glonass + Galileo

4.1 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Router	NETGEAR	R6020	No.XA1401
Computer	Lenovo	L480	No.XA1402
Mouse	A4TECH	OP-520NU USB	No.XA1403

4.2 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (Below 1GHz)
		± 4.8dB (1GHz to 6GHz)
		± 4.5dB (6GHz to 18GHz)
		± 5.02dB (Above 18GHz)



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4.3 Test Location

Company:	SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.
Address:	1/F, Unit D, Building 1, Kanghong Orange Technology Park, No.137, Keyuan 3rd Road, Fengdong New City, Xi'an, Shaanxi China
Post code:	710086
Test engineer:	Ben Huang, Leah Chen

4.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **A2LA (Certificate No. 4854.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

• **FCC –Designation Number: CN1271.**

4.5 Deviation from Standards

None

4.6 Abnormalities from Standard Conditions

None



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5 Equipment List

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2020-04-02	2021-04-01
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-05	2020-04-12	2021-04-11
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2020-08-04	2021-08-03
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2019-12-06	2020-12-05
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR



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RE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2020-04-02	2021-04-01
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2020-04-02	2021-04-01
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-05	2020-04-12	2021-04-11
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2019-10-13	2021-10-12
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Amplifier	Tonscend	TAP00903040	XAW01-41-01	2019-11-18	2020-11-17
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2019-11-18	2020-11-17
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2019-12-03	2020-12-02
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2019-11-18	2020-11-17
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2019-12-06	2020-12-05
Measurement Software	Tonscend	TS+ RSE V3.0.0.2	XAW02-05-01	NCR	NCR
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2020-04-02	2021-04-01



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6 Emission Test Results

6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

Test Requirement:	47 CFR Part 15, Subpart B
Test Method:	ANSI C63.4:2014
Frequency Range:	150kHz to 30MHz
Limit:	
0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average
Detector:	Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 18.9 °C Humidity: 55.1 % RH Atmospheric Pressure: 1000 mbar

Pretest these modes to find the worst case: a: Transfer data between the EUT and the PC+USB cable 1

b: Transfer data between the EUT and the PC+USB cable 2

c: GSM850 Link+BT+WLAN2.4G+GPS Rx+playing MP4+earphone+EUT+USB cable1+adapter1

d: GSM1900 Link +BT+WLAN5G+GPS Rx+camera (Back)+earphone+EUT+USB cable1+adapter2

e: WCDMA II Link +BT+WLAN2.4G+GPS Rx+camera (Front)+earphone+EUT1+USB cable1+adapter1

f: WCDMA VI Link +BT+WLAN5G+GPS Rx+camera (Back)+earphone+EUT+USB cable1+adapter2

g: WCDMA V Link +BT+NFC+WLAN5G+GPS Rx+camera (Back)+earphone+EUT+USB cable1+adapter1

h: LTE band 2 Idle +BT+ NFC+WLAN5G+GNSS Rx +earphone+EUT+USB cable1+adapter1

i: LTE band 4 Idle +BT+FM+ NFC+WLAN2.4G+GNSS Rx+earphone+EUT+USB cable1+adapter1

j: LTE band 5 Idle +BT+FM+ NFC+WLAN5G+GNSS Rx+earphone+EUT+USB cable1+adapter1

k: LTE band 7 Idle +BT+FM+ NFC+WLAN2.4G+GNSS Rx+earphone+EUT+USB cable1+adapter1

l: LTE band 26 Idle +BT+FM+ NFC+WLAN2.4G+GNSS Rx+earphone+EUT+USB cable1+adapter1

m: LTE band 38 Idle +BT+FM+ NFC+WLAN5G+GNSS Rx +earphone+EUT+USB cable1+adapter1

n: LTE band 41 Idle +BT+FM+ NFC+WLAN5G+GNSS Rx +earphone+EUT+USB cable1+adapter1

The worst case d: GSM1900 Link +BT+WLAN5G+GPS Rx+camera (Back)+earphone+EUT+USB



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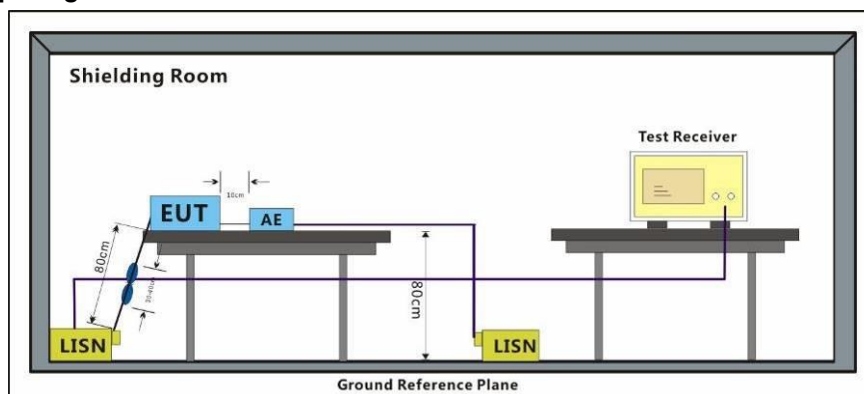
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for final test: cable1+adapter2

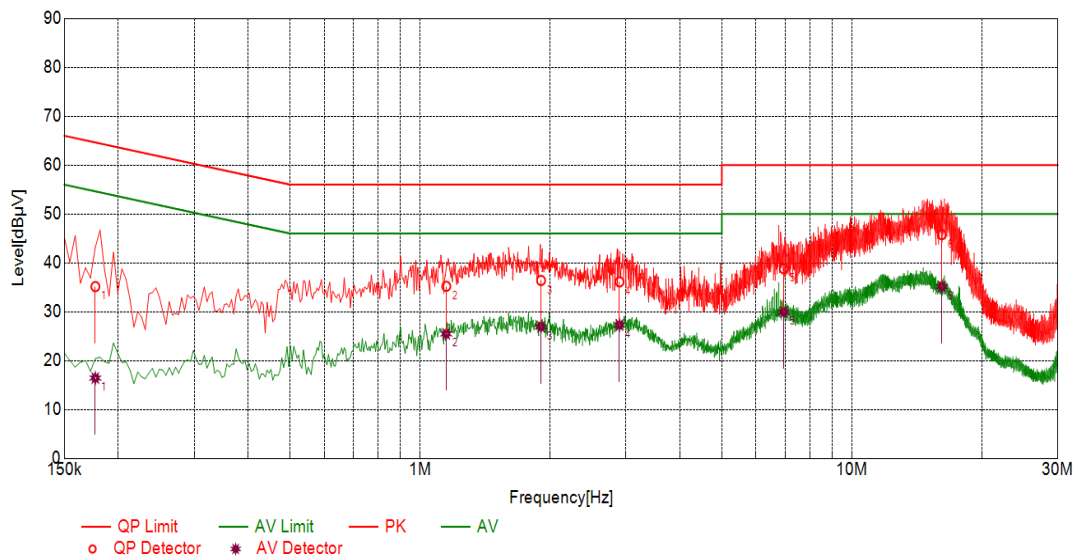
6.1.2 Test Setup Diagram



6.1.3 Measurement Data

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

Mode:d; Line:Live Line



Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Type
1	0.1770	10.10	35.15	64.63	29.48	16.43	54.63	38.20	L
2	1.1500	10.10	35.20	56.00	20.80	25.47	46.00	20.53	L
3	1.9063	10.10	36.39	56.00	19.61	26.92	46.00	19.08	L
4	2.8969	10.10	36.11	56.00	19.89	27.29	46.00	18.71	L
5	6.9569	10.10	38.79	60.00	21.21	29.93	50.00	20.07	L
6	16.1604	10.11	45.78	60.00	14.22	35.15	50.00	14.85	L



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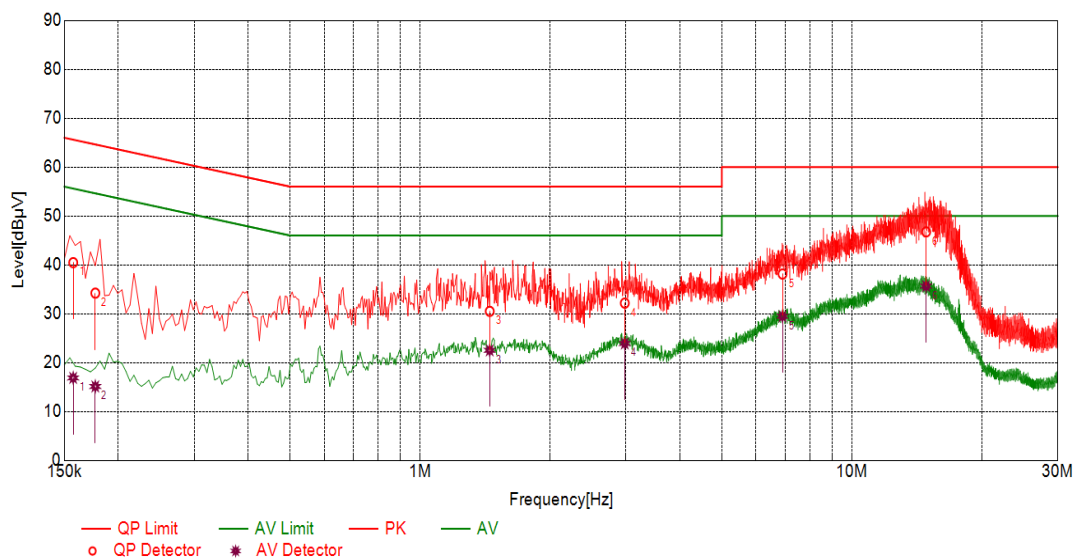
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Mode:d; Line:Neutral Line



Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Type
1	0.1573	10.10	40.46	65.61	25.15	16.87	55.61	38.74	N
2	0.1770	10.10	34.22	64.63	30.41	15.12	54.63	39.51	N
3	1.4500	10.10	30.49	56.00	25.51	22.51	46.00	23.49	N
4	2.9798	10.10	32.18	56.00	23.82	23.92	46.00	22.08	N
5	6.9085	10.10	38.13	60.00	21.87	29.47	50.00	20.53	N
6	14.8605	10.11	46.76	60.00	13.24	35.64	50.00	14.36	N



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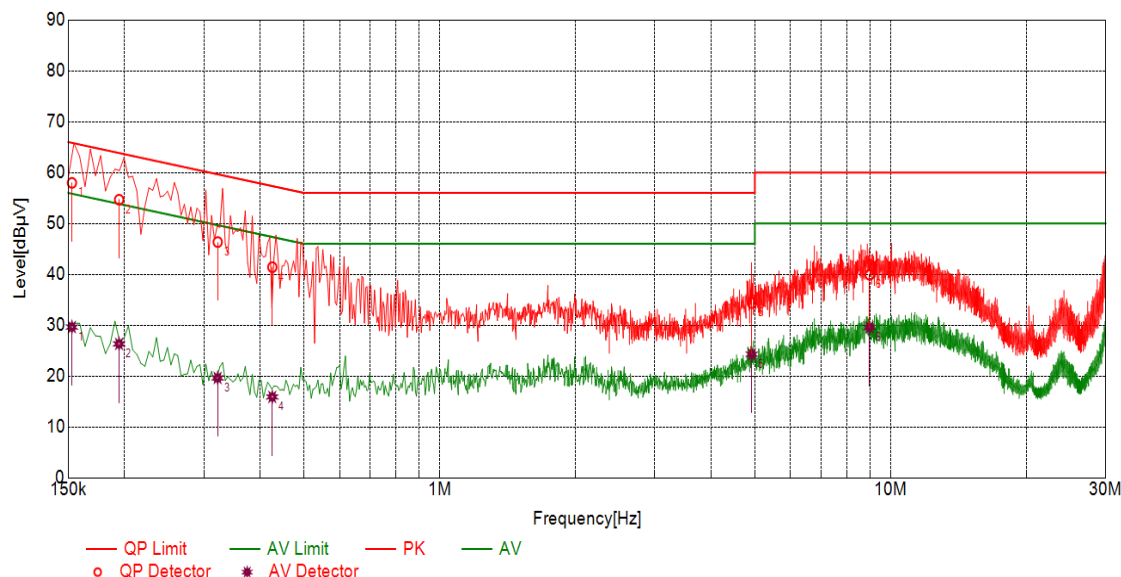
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Test on the worst case:

Mode:d; Line:Live Line



Test Graph

Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Type
1	0.1529	10.10	57.98	65.84	7.86	29.63	55.84	26.21	L
2	0.1945	10.10	54.67	63.84	9.17	26.33	53.84	27.51	L
3	0.3218	10.10	46.35	59.66	13.31	19.64	49.66	30.02	L
4	0.4253	10.10	41.41	57.34	15.93	15.90	47.34	31.44	L
5	4.9240	10.10	34.35	56.00	21.65	24.29	46.00	21.71	L
6	8.9830	10.10	39.90	60.00	20.10	29.56	50.00	20.44	L



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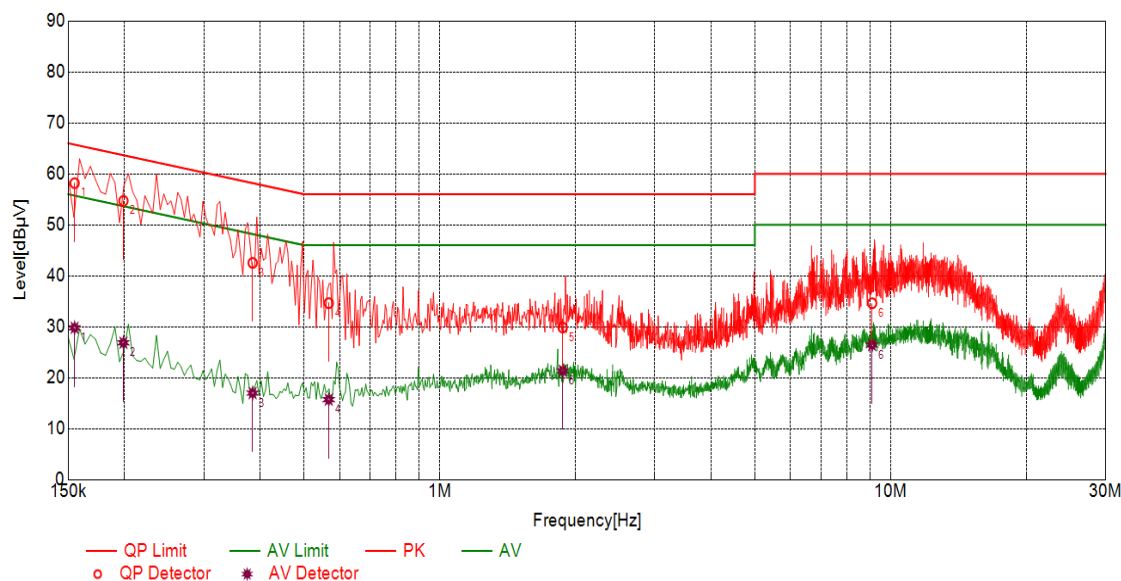
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Mode:d; Line:Neutral Line



Test Graph

Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Type
1	0.1550	10.10	58.17	65.73	7.56	29.79	55.73	25.94	N
2	0.1989	10.10	54.70	63.66	8.96	26.86	53.66	26.80	N
3	0.3847	10.10	42.52	58.18	15.66	16.98	48.18	31.20	N
4	0.5675	10.10	34.64	56.00	21.36	15.70	46.00	30.30	N
5	1.8741	10.10	29.85	56.00	26.15	21.35	46.00	24.65	N
6	9.0989	10.10	34.61	60.00	25.39	26.41	50.00	23.59	N



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6.2 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B
Test Method: ANSI C63.4:2014
Frequency Range: 30MHz to 1GHz
Measurement Distance: 3m
Limit:
30MHz -88MHz 40.0(dBμV/m) quasi-peak
88MHz-216MHz 43.5(dBμV/m) quasi-peak
216MHz-960MHz 46.0(dBμV/m) quasi-peak
960MHz-1000MHz 54.0(dBμV/m) quasi-peak
Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 66.5 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case:

- a: Transfer data between the EUT and the PC+USB cable 1
- b: Transfer data between the EUT and the PC+USB cable 2
- c: GSM850 Idle+BT+WLAN2.4G+GPS Rx+playing MP4+earphone+EUT+USB cable1+adapter1
- d: GSM1900 Idle +BT+WLAN5G+GPS Rx+camera (Back)+earphone+EUT+USB cable1+adapter2
- e: WCDMA II Idle +BT+WLAN2.4G+GPS Rx+camera (Front)+earphone+EUT1+USB cable1+adapter1
- f: WCDMA VI Idle +BT+WLAN5G+GPS Rx+camera (Back)+earphone+EUT+USB cable1+adapter2
- g: WCDMA V Idle +BT+NFC+WLAN5G+GPS Rx+camera (Back)+earphone+EUT+USB cable1+adapter1
- h: LTE band 2 Idle +BT+ NFC+WLAN5G+GNSS Rx +earphone+EUT+USB cable1+adapter1
- i: LTE band 4 Idle +BT+FM+ NFC+WLAN2.4G+GNSS Rx+earphone+EUT+USB cable1+adapter1
- j: LTE band 5 Idle +BT+FM+ NFC+WLAN5G+GNSS Rx+earphone+EUT+USB cable1+adapter1
- k: LTE band 7 Idle +BT+FM+ NFC+WLAN2.4G+GNSS Rx+earphone+EUT+USB cable1+adapter1
- l: LTE band 26 Idle +BT+FM+ NFC+WLAN2.4G+GNSS Rx+earphone+EUT+USB cable1+adapter1
- m: LTE band 38 Idle +BT+FM+ NFC+WLAN5G+GNSS Rx +earphone+EUT+USB cable1+adapter1
- n: LTE band 41 Idle +BT+FM+ NFC+WLAN5G+GNSS Rx +earphone+EUT+USB cable1+adapter1

The worst case for final test: e: WCDMA II Idle +BT+WLAN2.4G+GPS Rx+camera (Front)+earphone+EUT1+USB cable1+adapter1



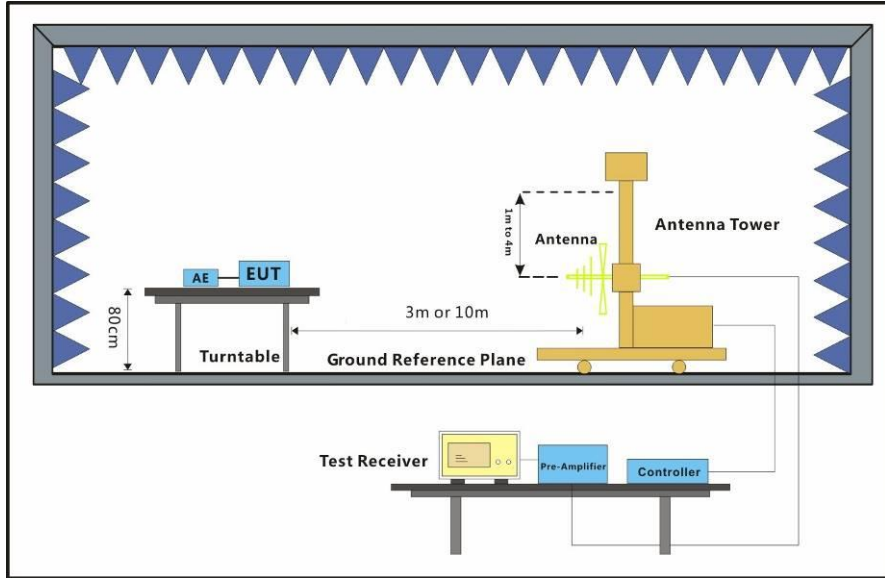
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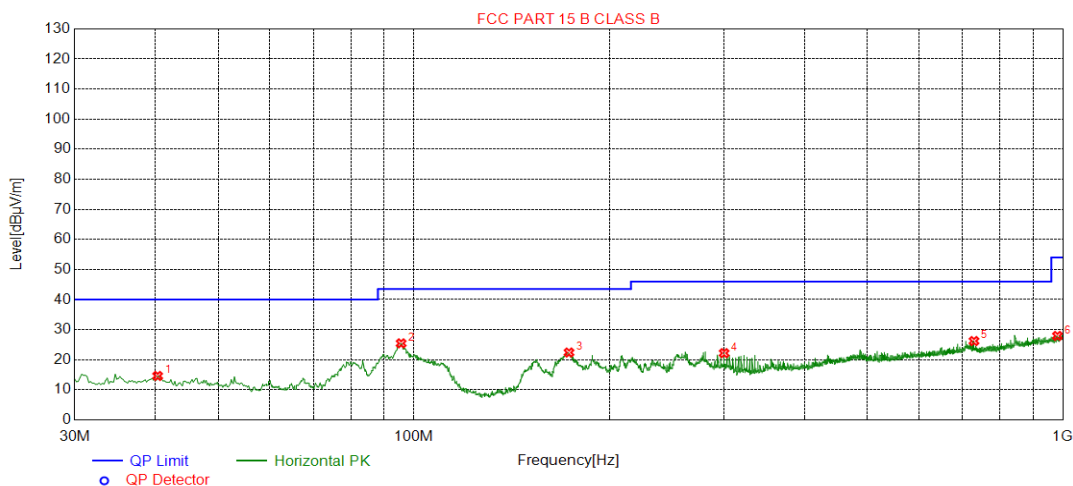
6.2.2 Test Setup Diagram



6.2.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

Mode:e; Polarization:Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.2841	14.63	-28.46	40.00	25.37	119	96	Horizontal
2	95.5851	25.46	-32.79	43.50	18.04	169	230	Horizontal
3	173.394	22.41	-33.79	43.50	21.09	187	236	Horizontal
4	300.684	22.21	-28.24	46.00	23.79	166	93	Horizontal
5	729.703	26.24	-18.81	46.00	19.76	124	297	Horizontal
6	980.984	27.93	-15.05	54.00	26.07	188	215	Horizontal

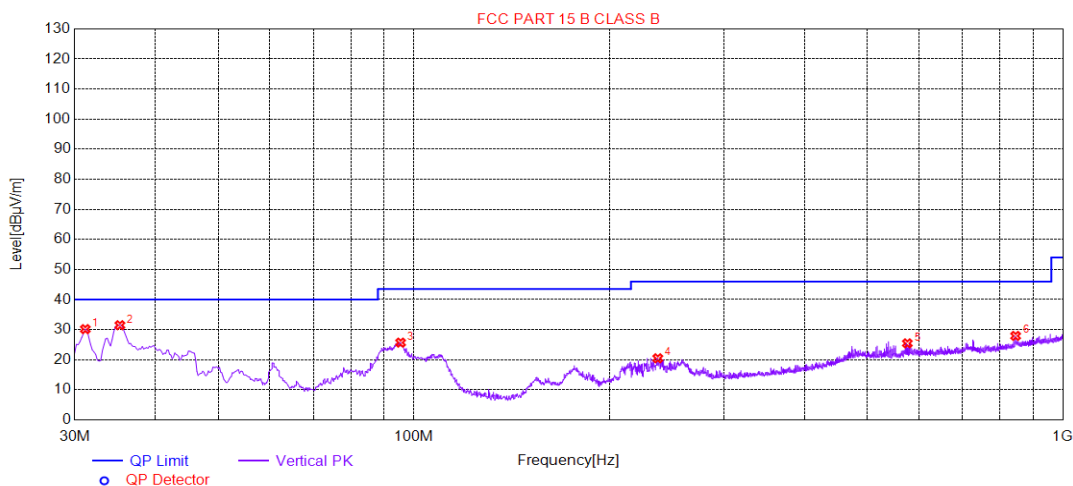


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Mode:e; Polarization:Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	31.1642	30.19	-30.05	40.00	9.81	153	360	Vertical
2	35.2390	31.49	-29.88	40.00	8.51	185	360	Vertical
3	95.3911	25.70	-32.82	43.50	17.80	290	120	Vertical
4	237.621	20.50	-30.15	46.00	25.50	206	314	Vertical
5	576.025	25.47	-21.31	46.00	20.53	208	346	Vertical
6	845.739	27.94	-16.96	46.00	18.06	172	288	Vertical



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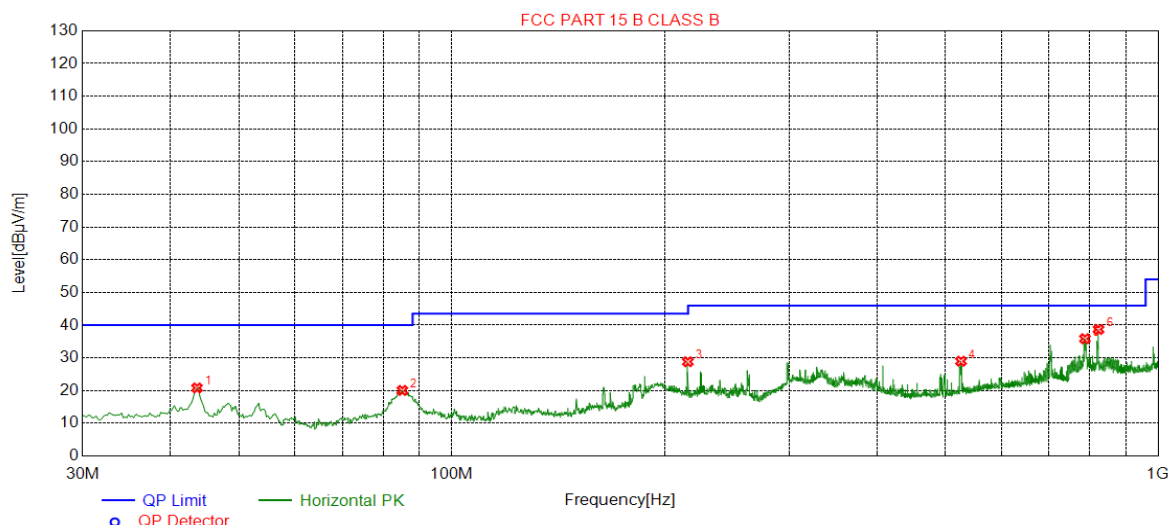
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Test on the worst case:

Mode:e; Polarization:Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	43.5827	20.82	-29.84	40.00	19.18	241	349	Horizontal
2	85.1070	20.06	-34.91	40.00	19.94	256	72	Horizontal
3	215.889	28.83	-30.82	43.50	14.67	248	323	Horizontal
4	525.963	28.99	-22.66	46.00	17.01	265	43	Horizontal
5	787.721	35.87	-17.92	46.00	10.13	247	49	Horizontal
6	823.424	38.71	-17.36	46.00	7.29	236	55	Horizontal



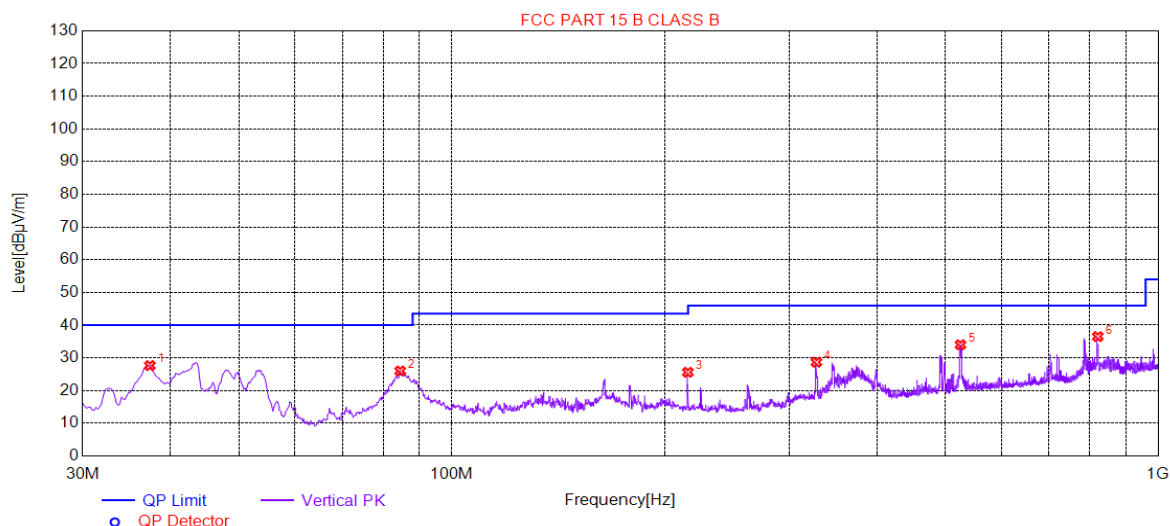
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Mode:e; Polarization:Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	37.3735	27.65	-29.19	40.00	12.35	174	2	Vertical
2	84.5249	26.00	-35.05	40.00	14.00	165	86	Vertical
3	215.889	25.60	-30.82	43.50	17.90	178	31	Vertical
4	328.237	28.69	-27.47	46.00	17.31	259	0	Vertical
5	524.993	34.03	-22.68	46.00	11.97	321	229	Vertical
6	821.484	36.52	-17.40	46.00	9.48	259	346	Vertical



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6.3 Radiated Emissions (above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B
 Test Method: ANSI C63.4:2014
 Frequency Range: Above 1GHz
 Measurement Distance: 3m
 Limit:
 Above 1GHz 74(dBμV/m) peak, 54(dBμV/m) average
 Detector: Peak for pre-scan (1000kHz resolution bandwidth) 100M to18000MHz

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.7 °C Humidity: 56.4 % RH Atmospheric Pressure: 1010 mbar

Pretest these
modes to find
the worst case:

- a: Transfer data between the EUT and the PC+USB cable 1
- b: Transfer data between the EUT and the PC+USB cable 2
- c: GSM850 Idle+BT+WLAN2.4G+GPS Rx+playing MP4+earphone+EUT+USB cable1+adapter1
- d: GSM1900 Idle +BT+WLAN5G+GPS Rx+camera (Back)+earphone+EUT+USB cable1+adapter2
- e: WCDMA II Idle +BT+WLAN2.4G+GPS Rx+camera (Front)+earphone+EUT1+USB cable1+adapter1
- f: WCDMA VI Idle +BT+WLAN5G+GPS Rx+camera (Back)+earphone+EUT+USB cable1+adapter2
- g: WCDMA V Idle +BT+NFC+WLAN5G+GPS Rx+camera (Back)+earphone+EUT+USB cable1+adapter1
- h: LTE band 2 Idle +BT+ NFC+WLAN5G+GNSS Rx +earphone+EUT+USB cable1+adapter1
- i: LTE band 4 Idle +BT+FM+ NFC+WLAN2.4G+GNSS Rx+earphone+EUT+USB cable1+adapter1
- j: LTE band 5 Idle +BT+FM+ NFC+WLAN5G+GNSS Rx+earphone+EUT+USB cable1+adapter1
- k: LTE band 7 Idle +BT+FM+ NFC+WLAN2.4G+GNSS Rx+earphone+EUT+USB cable1+adapter1
- l: LTE band 26 Idle +BT+FM+ NFC+WLAN2.4G+GNSS Rx+earphone+EUT+USB cable1+adapter1
- m: LTE band 38 Idle +BT+FM+ NFC+WLAN5G+GNSS Rx +earphone+EUT+USB cable1+adapter1
- n: LTE band 41 Idle +BT+FM+ NFC+WLAN5G+GNSS Rx +earphone+EUT+USB cable1+adapter1

The worst case
for final test:

m: LTE band 38 Idle +BT+FM+ NFC+WLAN5G+GNSS Rx +earphone+EUT+USB cable1+adapter1



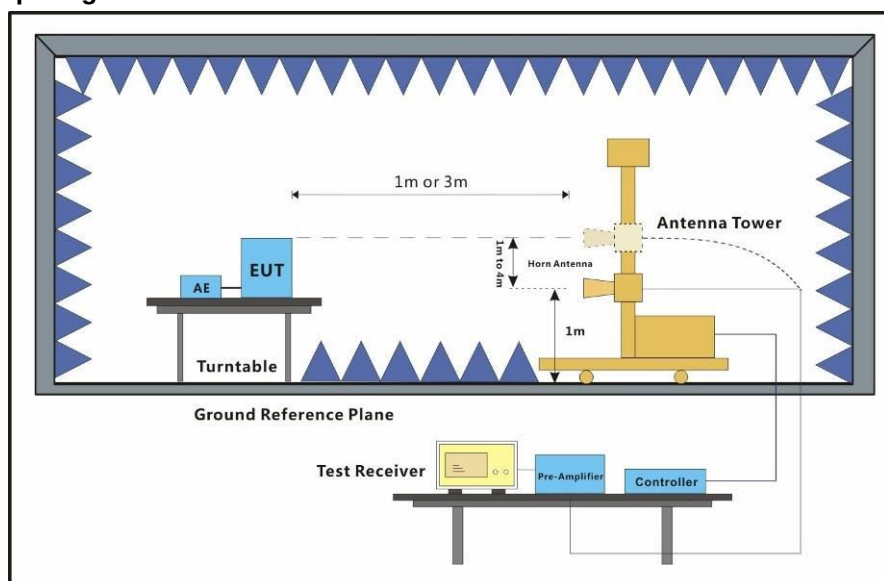
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6.3.2 Test Setup Diagram

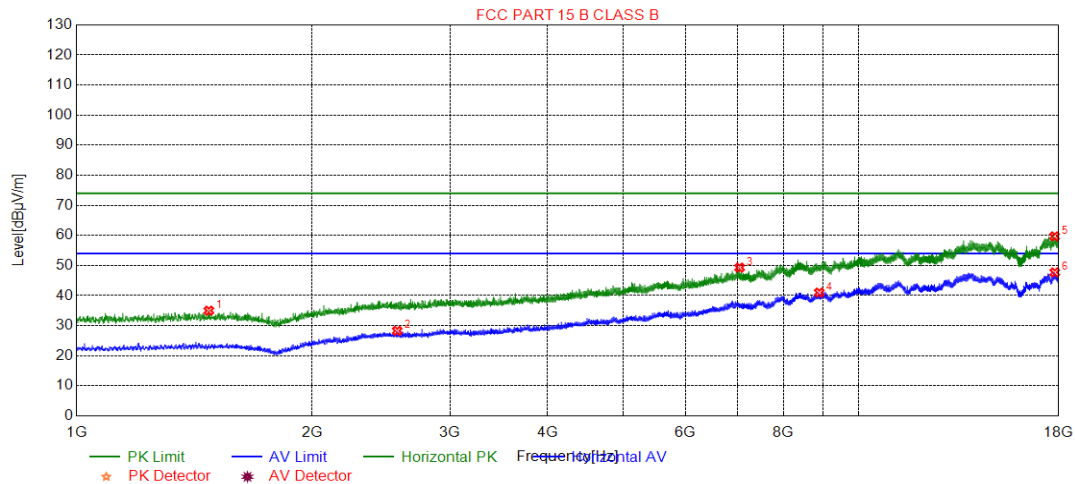


6.3.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.



Mode:m; Polarization:Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1476.02	35.01	-30.40	74.00	38.99	129	204	Horizontal
2	2569.17	28.30	-25.91	54.00	25.70	152	53	Horizontal
3	7037.00	49.32	-11.04	74.00	24.68	212	118	Horizontal
4	8895.19	41.01	-6.99	54.00	12.99	120	345	Horizontal
5	17780.6	59.70	0.76	74.00	14.30	120	118	Horizontal
6	17790.0	47.72	0.72	54.00	6.28	147	242	Horizontal



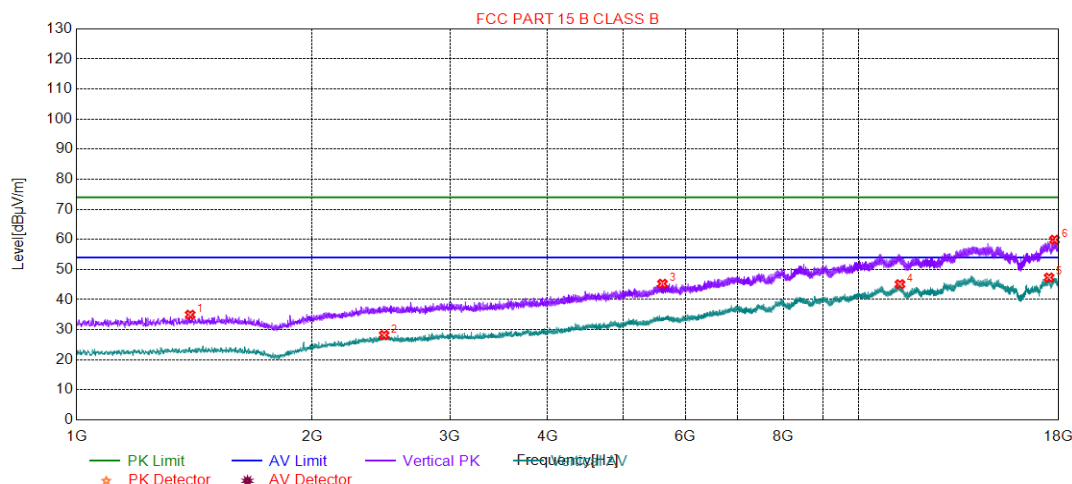
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Mode:m; Polarization:Vertical



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1396.96	34.97	-30.30	74.00	39.03	198	15	Vertical
2	2472.27	28.21	-26.03	54.00	25.79	186	91	Vertical
3	5608.08	45.28	-15.84	74.00	28.72	201	194	Vertical
4	11279.5	45.12	-2.75	54.00	8.88	278	317	Vertical
5	17493.3	47.34	1.56	54.00	6.66	244	15	Vertical
6	17777.2	59.91	0.77	74.00	14.09	190	279	Vertical



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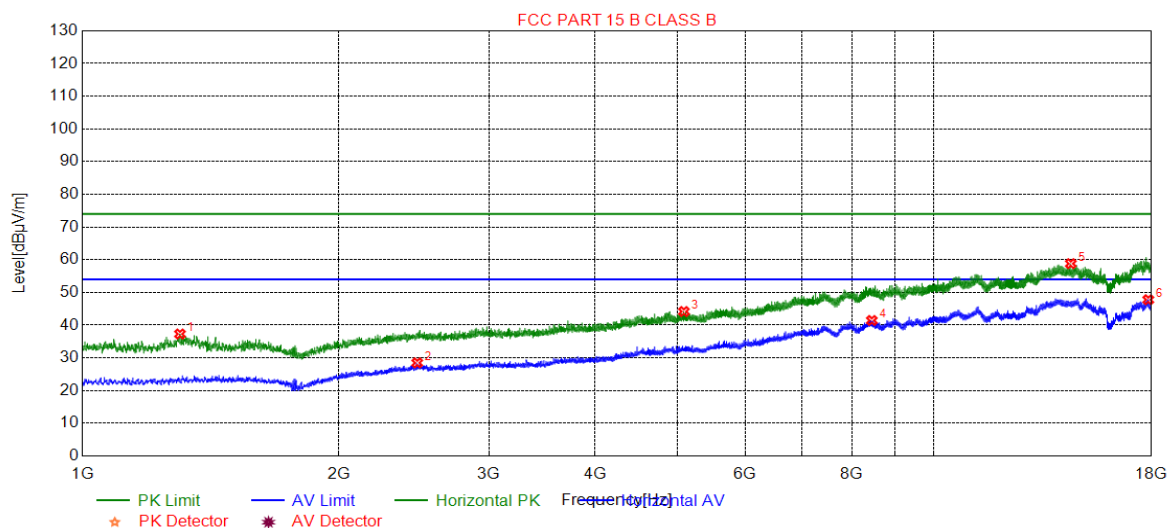
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Test on the worst case:

Mode:m; Polarization:Horizontal



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1301.76	37.31	-30.75	74.00	36.69	241	40	Horizontal
2	2472.27	28.48	-26.03	54.00	25.52	265	242	Horizontal
3	5083.60	44.18	-17.29	74.00	29.82	324	318	Horizontal
4	8449.77	41.45	-7.69	54.00	12.55	241	242	Horizontal
5	14469.7	58.82	1.67	74.00	15.18	285	193	Horizontal
6	17841.8	47.79	0.45	54.00	6.21	267	16	Horizontal



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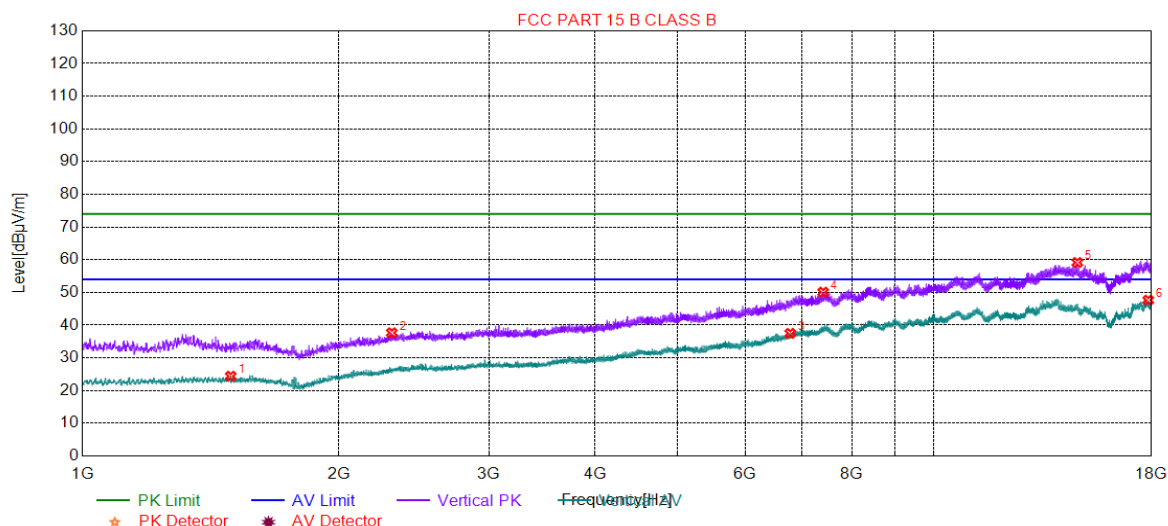
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Mode:m; Polarization:Vertical



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1493.02	24.41	-30.42	54.00	29.59	198	168	Vertical
2	2308.21	37.67	-26.81	74.00	36.33	257	116	Vertical
3	6776.03	37.51	-11.96	54.00	16.49	263	79	Vertical
4	7408.47	50.10	-9.96	74.00	23.90	248	40	Vertical
5	14728.1	59.17	1.70	74.00	14.83	295	91	Vertical
6	17840.1	47.66	0.46	54.00	6.34	226	3	Vertical

Remark:

1) Scan from 1GHz to 30GHz, The disturbance above 18GHz was very low and all noise floor. The above radiated emissions were the highest point could be found when testing, so only the above radiated emissions had been displayed.



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7 Photographs

7.1 Conducted Emissions at Mains Terminals (150kHz-30MHz) Test Setup

7.2 Radiated Emissions (30MHz-1GHz) Test Setup

7.3 Radiated Emissions (above 1GHz) Test Setup

7.4 EUT Constructional Details (EUT Photos)

Refer to Photographs of EUT Constructional Details

- End of the Report -



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SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
Wireless Laboratory

V/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi'an, Shaanxi, China 710086
中国·西安·沣东新城科源三路137号康鸿橙方科技园1号楼D单元1层 邮编: 710086

t (86-29) 6282 7885 www.sgsgroup.com.cn
t (86-29) 6282 7885 sgs.china@sgs.com