



## TEST REPORT

**Application No.:** ZR/2020/A0007  
**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.:** XT2091-4  
**Trade Mark:** Motorola  
**FCC ID:** IHDT56ZK1  
**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/2020/8000607-01)  
2020/10/16 to 2020/10/27(for new report ZR/2020/A000702-01)  
**Date of Issue:** 2021/8/15

<b>Test Result:</b>	<b>Pass*</b>
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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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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020/10/30		Original
02		2021/6/5	Leah Chen	1. Modify data conversion error of antenna height 2. Update equipment list
03		2021/8/15	Leah Chen	1. Update Support Units, Test facility and Test Location

\*This report supersedes our previous report ZR/2020/A000702, 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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## 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/A000702-01) is based on the original test report (Report No.: ZR/2020/8000607-01).

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 GSM was retested and radiated spurious emissions were performed based on the worst case of the original report with report number ZR/2020/8000607-01 and other test data in this report are based on the previous report with report number ZR/2020/8000607-01.



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## 1 General Information

Product Name:	Mobile Phone		
Model No.(EUT):	XT2091-4		
Trade Mark:	Motorola		
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 66	1716~1780	2110~2200
	WIFI 2.4G	2412~2462	2412~2462
	WIFI 5G	5150~5850	5150~5850
	BT	2402~2480	2402~2480
	FM	87.5~108	
	GNSS	1559~1610	
Adapter Information 1#:	Model:	MC-201	
	Brand Name:	Motorola(Acbel)	
	SEC:	I/P: 100 - 240 Vac, 700mA, O/P: 5/10/12Vdc, 3000/2000/16700mA	
Adapter Information 1#:	Model:	MC-202	
	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,1.67A;10V,2.25A	
Adapter Information 1#:	Model:	MC-203	
	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,1.67A;10V,2.25A	
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,1.67A;10V,2.25A	



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		67A;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,1.67A;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,1.67A;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,1.67A;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,1.67A;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,1.67A;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,1.67A;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,1.67A;10V,2.25A
Adapter Information 2#:	Model:	MC-206
	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,1.67A;10V,2.25A
Adapter Information 2#:	Model:	MC-207



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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,1.67A;10V,2.25A
Adapter Information 3#:	Model:	MC-207
	Brand Name:	Motorola(Flex)
	SEC:	I/P: 100 - 240 Vac, 0.6 A, O/P:5.0V,3A;9.0V,2.23A ;12.0V,2.23A ;12.0V,1.67A;10V,2.25A
Adapter Information 4#:	Model:	MC-207
	Brand Name:	Motorola(Salcomp)
	SEC:	I/P: 100 - 240 Vac, 0.6 A, O/P:5.0V,3A;9.0V,2.23A ;12.0V,2.23A ;12.0V,1.67A;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)
USB cable Information3#:	Model:	SC18C28955
	Brand Name:	Motorola (I SHENG)
USB cable Information4#:	Model:	SC18C78708
	Brand Name:	Motorola (Elcoa)
Earphone Information1#:	Model:	NLD-EM301K-15SF v1
	Brand Name:	Motorola (New Leader)
Bluetooth earphone Information1#:	Model:	SHO69
	Brand Name:	Motorola

**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



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## 1.1 Description of Support Units

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

## 1.2 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

## 1.3 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.**

## 1.4 Deviation from Standards

None

## 1.5 Abnormalities from Standard Conditions

None



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## 2 Emission Test Results

### 2.1 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

#### 2.1.1 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: Transfer data between the EUT and the PC+USB cable 3
- d: Transfer data between the EUT and the PC+USB cable 4
- e: GSM850 Link+BT+WLAN2.4G+GPS Rx+playing MP4+earphone+EUT+USB cable1+adapter1
- f: GSM1900 Link +BT+WLAN5G+GPS Rx+camera (Back)+earphone+EUT+USB cable1+adapter2
- g: WCDMA II Link +BT+WLAN2.4G+GPS Rx+camera (Front)+earphone+EUT1+USB cable1+adapter3
- h: WCDMA VI Link +BT+WLAN5G+GPS Rx+camera (Back)+earphone+EUT+USB cable1+adapter4
- i: WCDMA V Link +BT+WLAN5G+GPS Rx+camera (Back)+earphone+EUT+USB cable1+adapter1
- j: LTE band 2 Idle +BT+ WLAN5G+GNSS Rx +earphone+EUT+USB cable1+adapter1
- k: LTE band 4 Idle +BT+FM +WLAN2.4G+GNSS Rx+earphone+EUT+USB cable1+adapter1
- l: LTE band 5 Idle +BT+FM+WLAN5G+GNSS Rx+earphone+EUT+USB cable1+adapter1
- m: LTE band 7 Idle +BT+FM+WLAN2.4G+GNSS Rx+earphone+EUT+USB cable1+adapter1
- n: LTE band 66 Idle +BT+FM+WLAN5G+GNSS Rx +earphone+EUT+USB cable1+adapter1
- The worst case for final test: g: WCDMA II Link +BT+WLAN2.4G+GPS Rx+camera (Front)+earphone+EUT1+USB cable1+adapter3

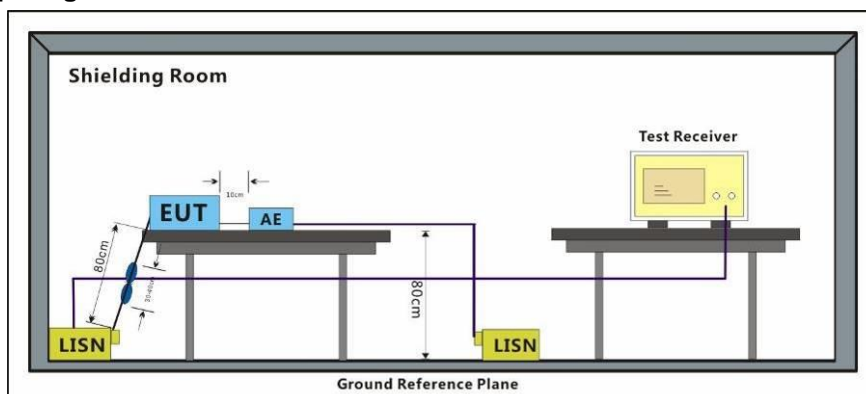


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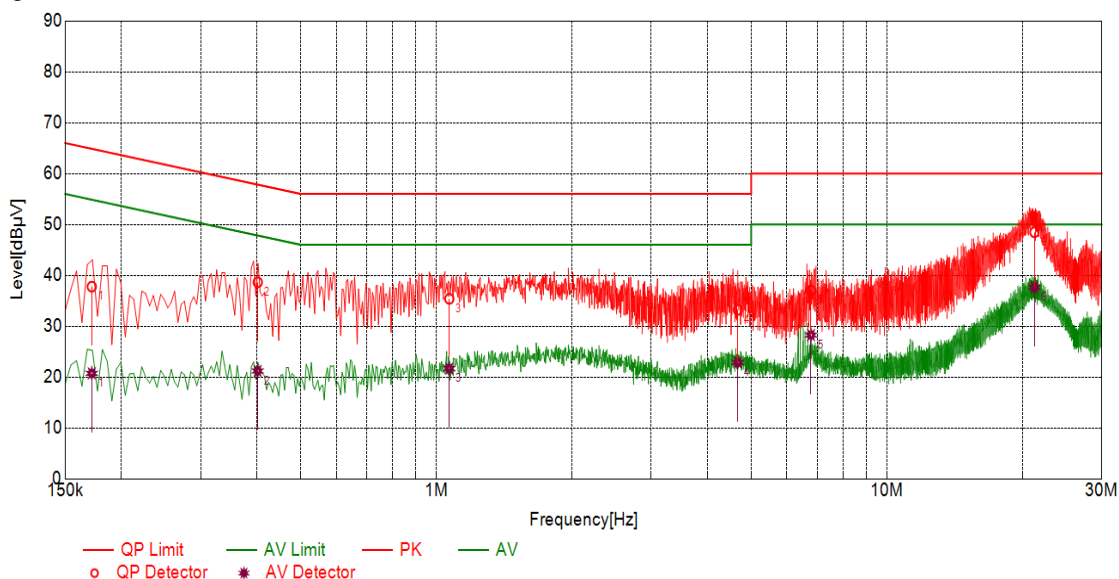
### 2.1.2 Test Setup Diagram



### 2.1.3 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:g; 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	0.1719	10.10	37.78	64.87	27.09	20.73	54.87	34.14	L
2	0.4014	10.10	38.64	57.82	19.18	21.20	47.82	26.62	L
3	1.0686	10.10	35.39	56.00	20.61	21.67	46.00	24.33	L
4	4.6692	10.10	33.21	56.00	22.79	22.87	46.00	23.13	L
5	6.7873	10.10	37.02	60.00	22.98	28.26	50.00	21.74	L
6	21.2666	10.11	48.47	60.00	11.53	37.62	50.00	12.38	L

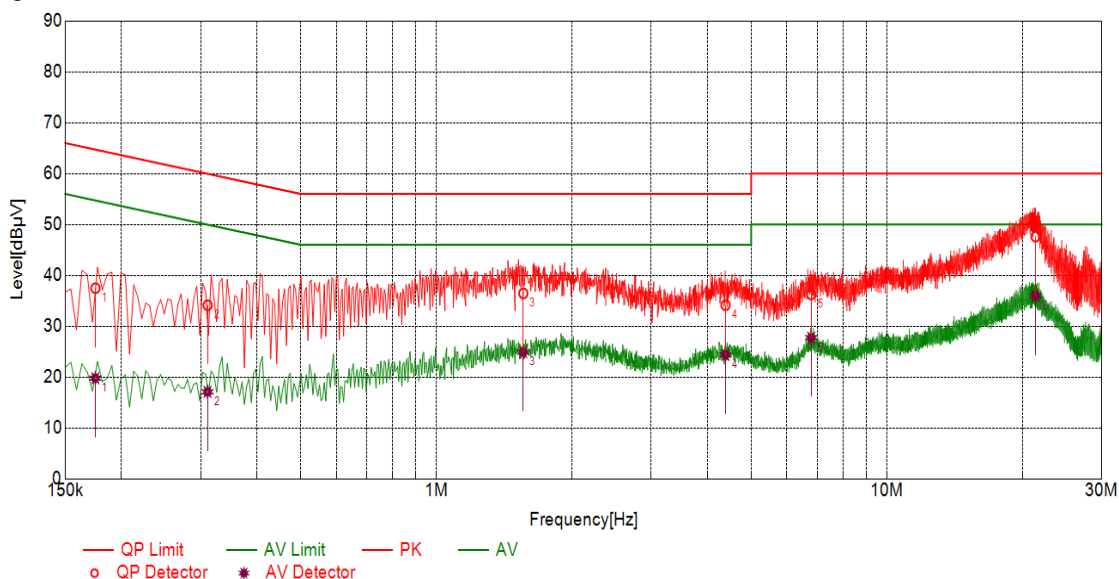


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Mode:g; Line:Neutral Line



### 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	0.1751	10.10	37.47	64.71	27.24	19.78	54.71	34.93	N
2	0.3107	10.10	34.11	59.95	25.84	17.09	49.95	32.86	N
3	1.5597	10.10	36.45	56.00	19.55	24.90	46.00	21.10	N
4	4.3846	10.10	34.13	56.00	21.87	24.34	46.00	21.66	N
5	6.7961	10.10	36.25	60.00	23.75	27.75	50.00	22.25	N
6	21.3800	10.11	47.60	60.00	12.40	35.94	50.00	14.06	N



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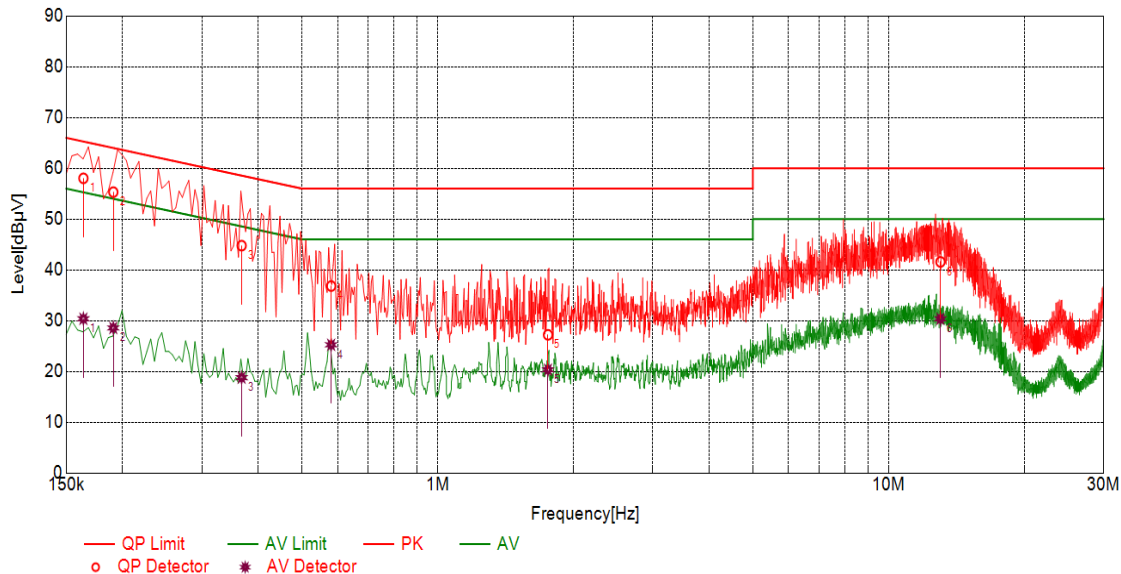
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### Test on the worst case:

Mode:g; 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	0.1638	10.10	58.03	65.27	7.24	30.37	55.27	24.90	N
2	0.1908	10.10	55.31	64.00	8.69	28.56	54.00	25.44	N
3	0.3674	10.10	44.77	58.56	13.79	18.78	48.56	29.78	N
4	0.5804	10.10	36.81	56.00	19.19	25.25	46.00	20.75	N
5	1.7562	10.10	27.21	56.00	28.79	20.33	46.00	25.67	N
6	13.0277	10.11	41.58	60.00	18.42	30.36	50.00	19.64	N



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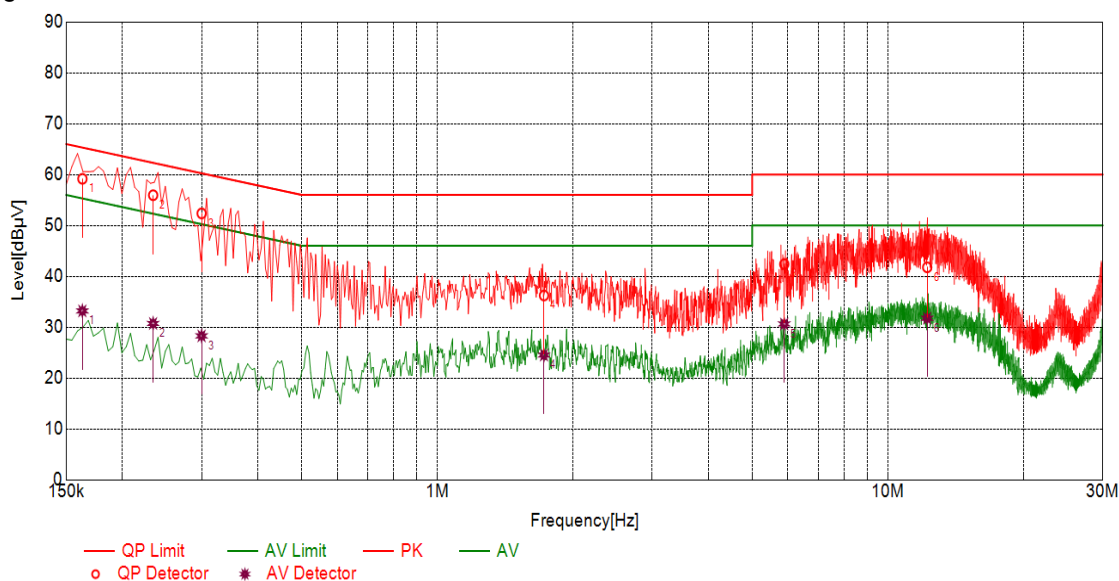
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Mode:g; Line:Neutral Line



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	0.1630	10.10	59.17	65.31	6.14	33.20	55.31	22.11	L
2	0.2340	10.10	55.95	62.31	6.36	30.73	52.31	21.58	L
3	0.2998	10.10	52.37	60.25	7.88	28.29	50.25	21.96	L
4	1.7249	10.10	36.24	56.00	19.76	24.52	46.00	21.48	L
5	5.8888	10.10	42.39	60.00	17.61	30.63	50.00	19.37	L
6	12.2274	10.10	41.77	60.00	18.23	31.75	50.00	18.25	L



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## 2.2 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

### 2.2.1 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: Transfer data between the EUT and the PC+USB cable 3
- d: Transfer data between the EUT and the PC+USB cable 4
- e: GSM850 Idle +BT+WLAN2.4G+GPS Rx+playing MP4+earphone+EUT+USB cable1+adapter1
- f: GSM1900 Idle +BT+WLAN5G+GPS Rx+camera (Back)+earphone+EUT+USB cable1+adapter2
- g: WCDMA II Idle +BT+WLAN2.4G+GPS Rx+camera (Front)+earphone+EUT1+USB cable1+adapter3
- h: WCDMA VI Idle +BT+WLAN5G+GPS Rx+camera (Back)+earphone+EUT+USB cable1+adapter4
- i: WCDMA V Idle +BT+WLAN5G+GPS Rx+camera (Back)+earphone+EUT+USB cable1+adapter1
- j: LTE band 2 Idle +BT+ WLAN5G+GNSS Rx +earphone+EUT+USB cable1+adapter1
- k: LTE band 4 Idle +BT+FM +WLAN2.4G+GNSS Rx+earphone+EUT+USB cable1+adapter1
- l: LTE band 5 Idle +BT+FM+WLAN5G+GNSS Rx+earphone+EUT+USB cable1+adapter1
- m: LTE band 7 Idle +BT+FM+WLAN2.4G+GNSS Rx+earphone+EUT+USB cable1+adapter1
- n: LTE band 66 Idle +BT+FM+WLAN5G+GNSS Rx +earphone+EUT+USB cable1+adapter1

The worst case for final test: a: Transfer data between the EUT and the PC+USB cable 1

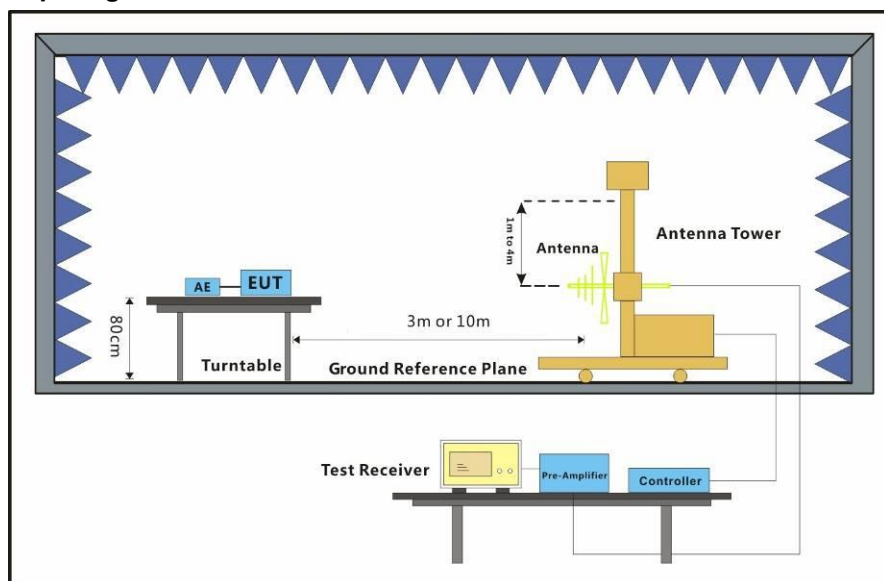


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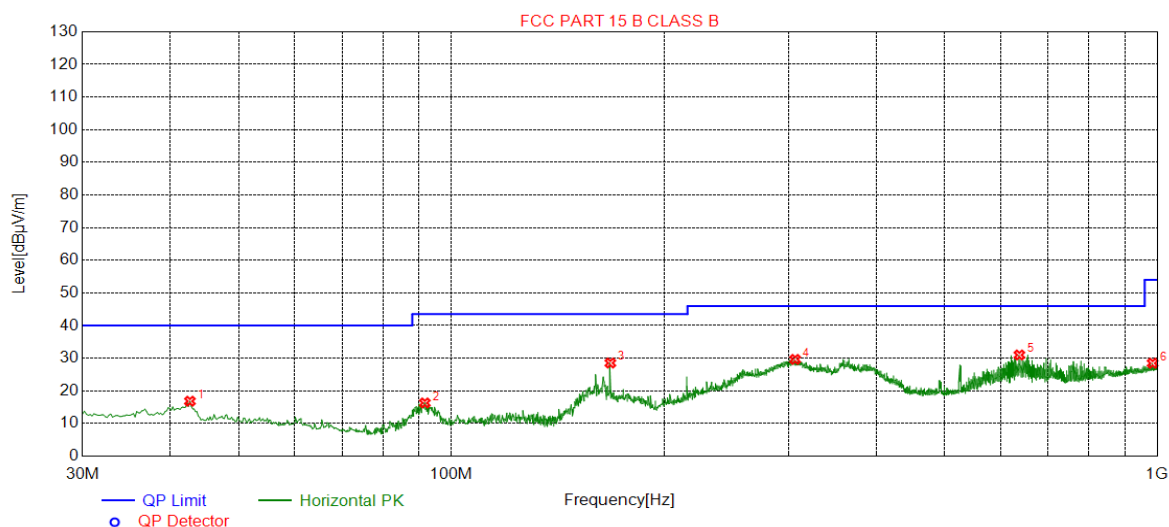
### 2.2.2 Test Setup Diagram



### 2.2.3 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:a; Polarization:Horizontal



### Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.6125	16.85	-29.43	40.00	23.15	101	127	Horizontal
2	91.7043	16.31	-33.43	43.50	27.19	191	48	Horizontal
3	167.961	28.54	-34.16	43.50	14.96	129	80	Horizontal
4	306.893	29.65	-28.07	46.00	16.35	232	58	Horizontal
5	637.923	31.00	-20.17	46.00	15.00	125	60	Horizontal
6	985.059	28.47	-15.00	54.00	25.53	196	75	Horizontal



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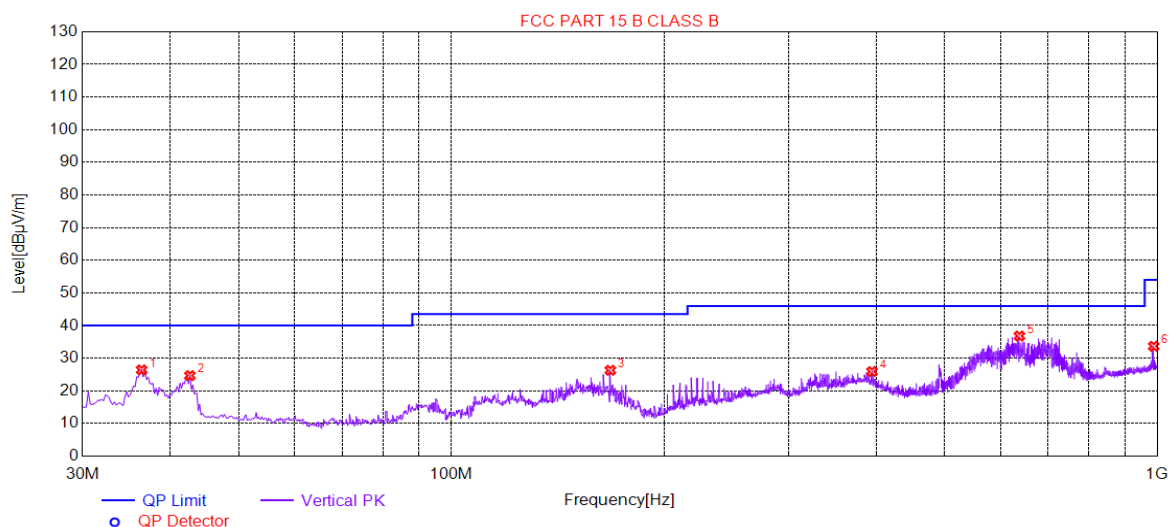
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Mode:a; Polarization:Vertical



### Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.4033	26.44	-29.51	40.00	13.56	171	323	Vertical
2	42.6125	24.67	-29.43	40.00	15.33	169	259	Vertical
3	167.961	26.31	-34.16	43.50	17.19	175	56	Vertical
4	394.404	25.92	-25.63	46.00	20.08	232	1	Vertical
5	637.923	36.81	-20.17	46.00	9.19	278	171	Vertical
6	988.745	33.68	-14.95	54.00	20.32	156	12	Vertical



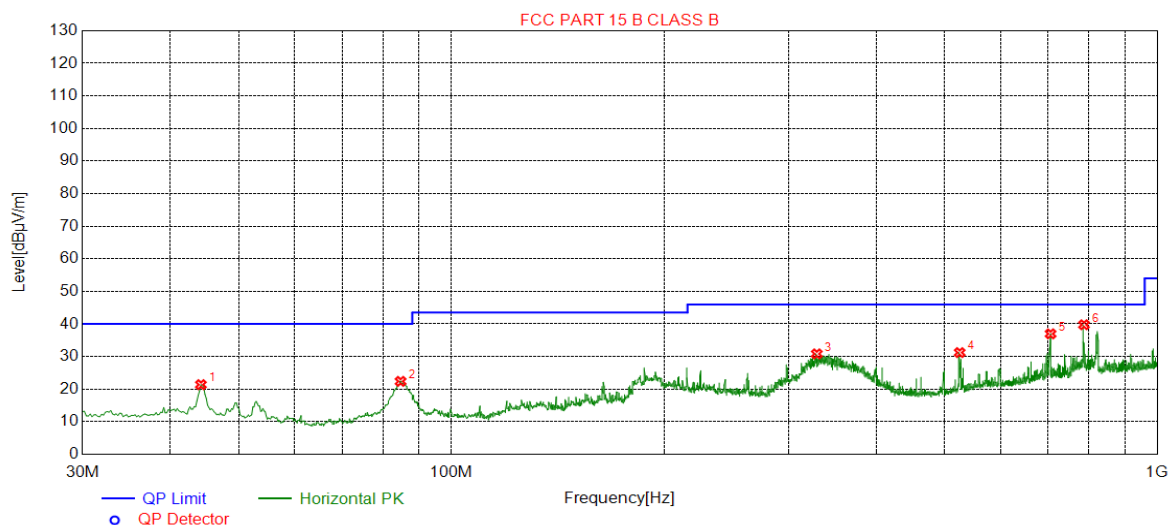
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**Test on the worst case:**

Mode:a; Polarization:Horizontal

**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.1648	21.39	-30.08	40.00	18.61	189	320	Horizontal
2	84.7189	22.40	-35.01	40.00	17.60	150	43	Horizontal
3	329.401	30.83	-27.43	46.00	15.17	110	360	Horizontal
4	524.993	31.23	-22.68	46.00	14.77	156	180	Horizontal
5	706.225	36.99	-19.36	46.00	9.01	249	31	Horizontal
6	787.527	39.78	-17.92	46.00	6.22	206	60	Horizontal



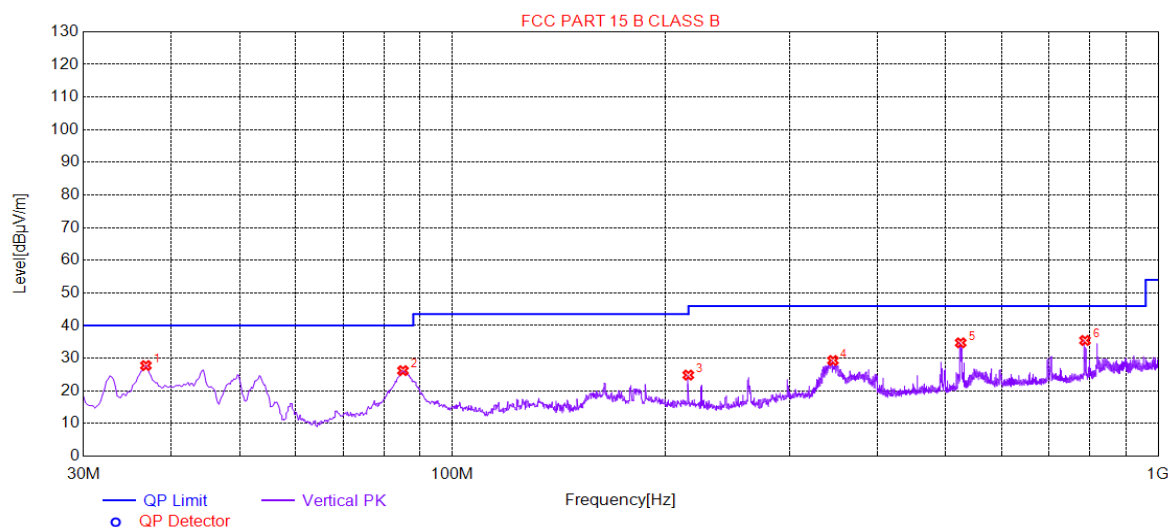
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Mode:a; Polarization:Vertical



### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.7914	27.77	-29.38	40.00	12.23	258	191	Vertical
2	85.1070	26.21	-34.91	40.00	13.79	290	262	Vertical
3	215.889	24.85	-30.82	43.50	18.65	233	44	Vertical
4	346.089	29.31	-26.97	46.00	16.69	292	1	Vertical
5	524.993	34.73	-22.68	46.00	11.27	288	335	Vertical
6	787.527	35.45	-17.92	46.00	10.55	157	24	Vertical



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## 2.3 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) 1000M to18000MHz

### 2.1.4 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: Transfer data between the EUT and the PC+USB cable 3
- d: Transfer data between the EUT and the PC+USB cable 4
- e: GSM850 Idle +BT+WLAN2.4G+GPS Rx+playing MP4+earphone+EUT+USB cable1+adapter1
- f: GSM1900 Idle +BT+WLAN5G+GPS Rx+camera (Back)+earphone+EUT+USB cable1+adapter2
- g: WCDMA II Idle +BT+WLAN2.4G+GPS Rx+camera (Front)+earphone+EUT1+USB cable1+adapter3
- h: WCDMA VI Idle +BT+WLAN5G+GPS Rx+camera (Back)+earphone+EUT+USB cable1+adapter4
- i: WCDMA V Idle +BT+WLAN5G+GPS Rx+camera (Back)+earphone+EUT+USB cable1+adapter1
- j: LTE band 2 Idle +BT+ WLAN5G+GNSS Rx +earphone+EUT+USB cable1+adapter1
- k: LTE band 4 Idle +BT+FM +WLAN2.4G+GNSS Rx+earphone+EUT+USB cable1+adapter1
- l: LTE band 5 Idle +BT+FM+WLAN5G+GNSS Rx+earphone+EUT+USB cable1+adapter1
- m: LTE band 7 Idle +BT+FM+WLAN2.4G+GNSS Rx+earphone+EUT+USB cable1+adapter1
- n: LTE band 66 Idle +BT+FM+WLAN5G+GNSS Rx +earphone+EUT+USB cable1+adapter1

The worst case for final test: a: Transfer data between the EUT and the PC+USB cable 1

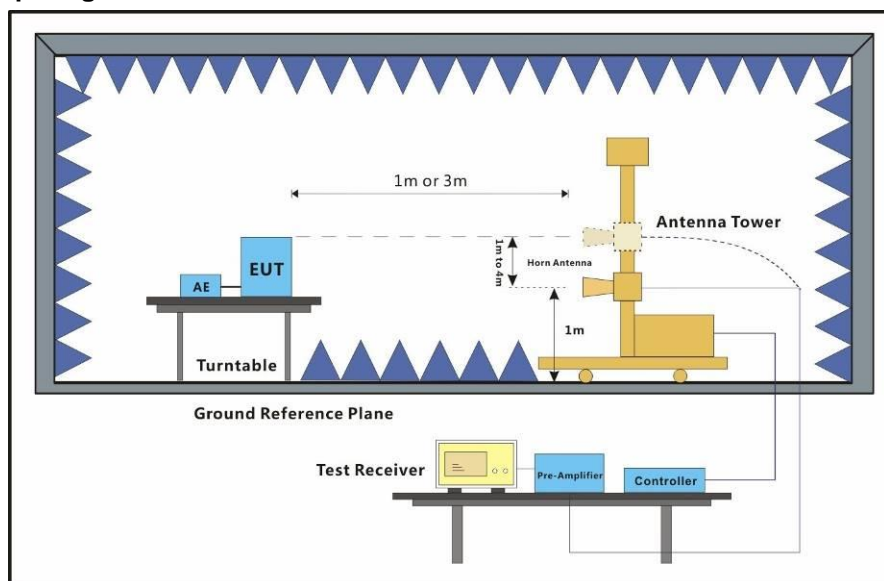


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### 2.1.5 Test Setup Diagram

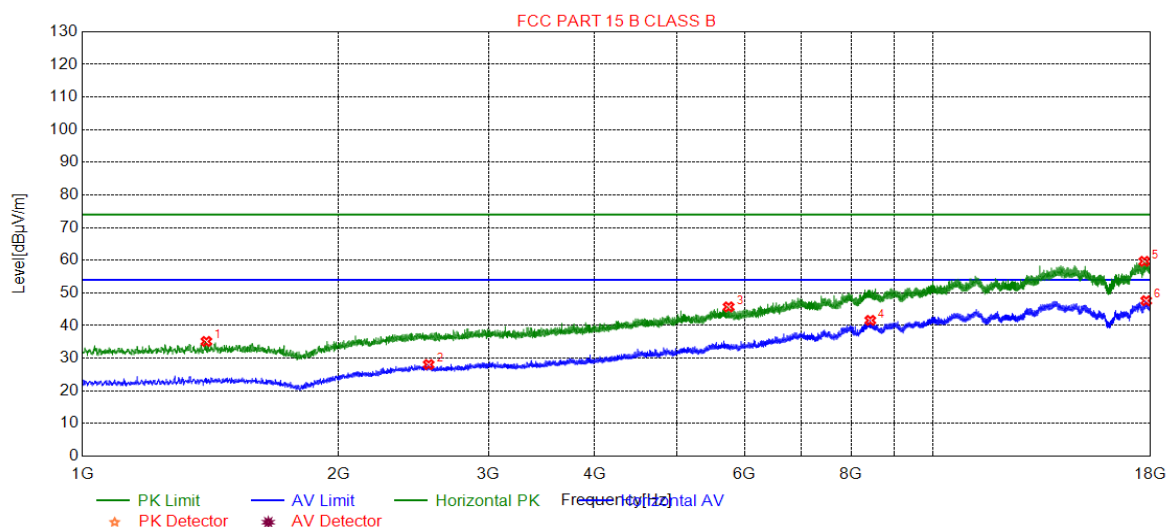


### 2.1.6 Measurement Data

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:a; Polarization:Horizontal



### Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1398.66	35.15	-30.30	74.00	38.85	134	242	Horizontal
2	2552.17	28.07	-25.90	54.00	25.93	169	4	Horizontal
3	5745.78	45.73	-15.69	74.00	28.27	177	156	Horizontal
4	8431.07	41.60	-7.73	54.00	12.40	131	156	Horizontal
5	17697.3	59.68	1.03	74.00	14.32	112	194	Horizontal
6	17786.6	47.62	0.74	54.00	6.38	238	166	Horizontal

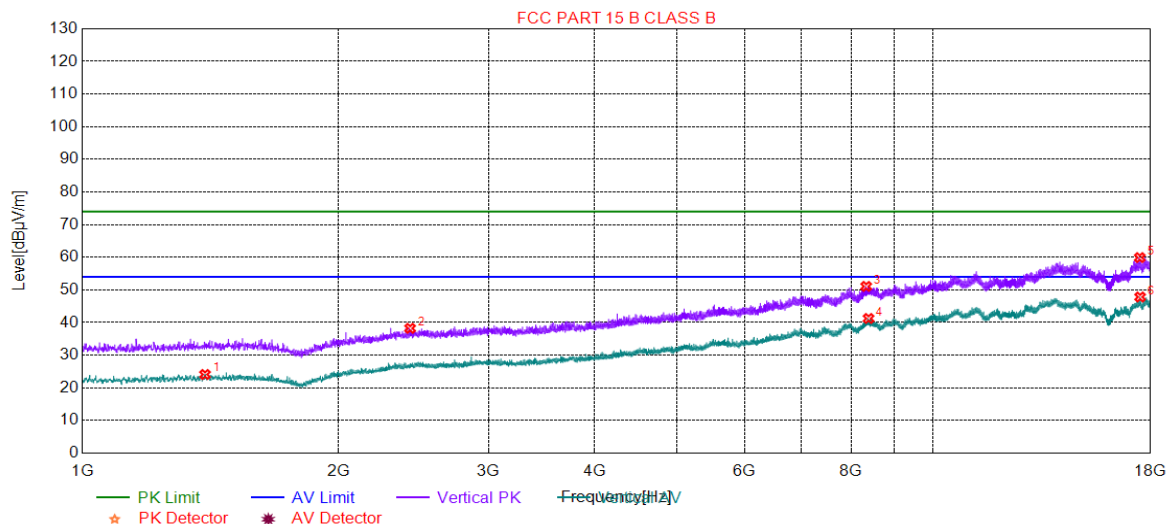


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Mode:a; Polarization:Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1393.56	24.11	-30.32	54.00	29.89	222	269	Vertical
2	2427.22	38.25	-26.32	74.00	35.75	220	156	Vertical
3	8337.56	51.09	-7.76	74.00	22.91	210	156	Vertical
4	8391.11	41.27	-7.79	54.00	12.73	154	344	Vertical
5	17480.6	59.91	1.39	74.00	14.09	159	232	Vertical
6	17496.7	47.85	1.60	54.00	6.15	154	53	Vertical



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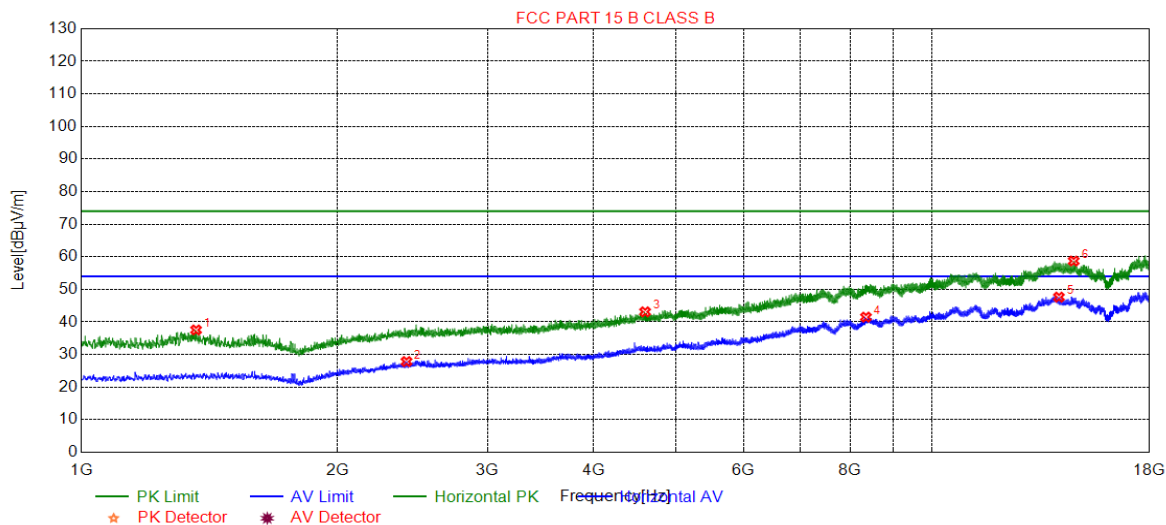
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## Test on the worst case:

Mode:a; Polarization:Horizontal



## Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1363.81	37.57	-30.46	74.00	36.43	189	41	Horizontal
2	2410.22	27.86	-26.42	54.00	26.14	194	155	Horizontal
3	4596.52	43.12	-19.02	74.00	30.88	160	230	Horizontal
4	8354.56	41.50	-7.77	54.00	12.50	220	269	Horizontal
5	14083.8	47.64	2.34	54.00	6.36	212	269	Horizontal
6	14657.6	58.71	1.65	74.00	15.29	170	155	Horizontal

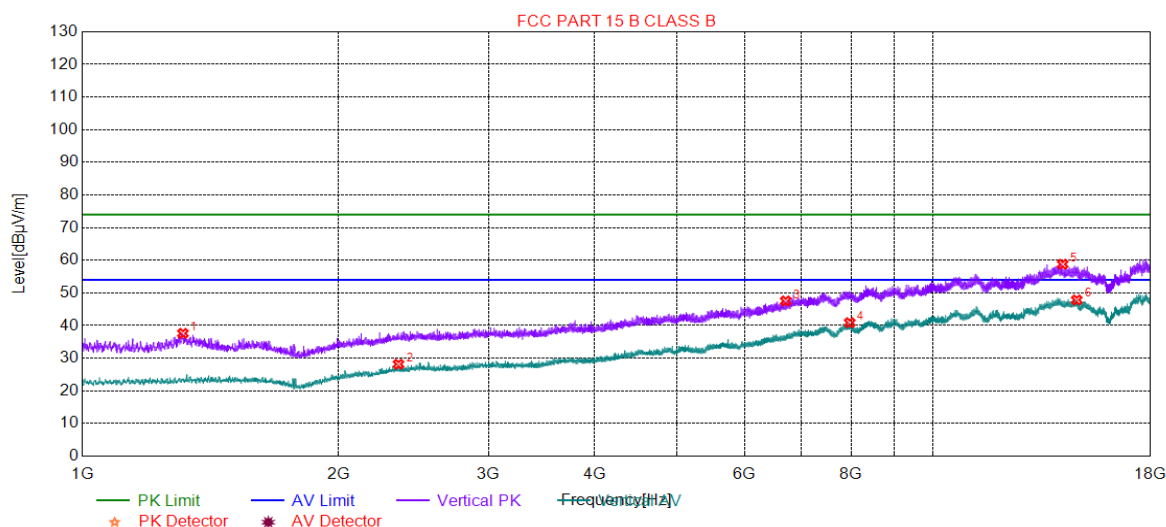


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Mode:a; Polarization:Vertical



### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1312.81	37.62	-30.70	74.00	36.38	183	42	Vertical
2	2352.41	28.17	-26.66	54.00	25.83	243	307	Vertical
3	6706.33	47.55	-12.26	74.00	26.45	208	318	Vertical
4	7974.59	40.89	-8.27	54.00	13.11	259	242	Vertical
5	14188.4	58.80	2.10	74.00	15.20	278	167	Vertical
6	14738.3	47.86	1.71	54.00	6.14	160	53	Vertical



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### 3 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
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
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2020-04-02	2021-04-01

RSE 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
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
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR
Filter bank	Tonscend	JS0806s	XAW03-05-02	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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## 4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	$\pm 3.0\text{dB}$ (150kHz to 30MHz)
2	Radiated Emission	$\pm 4.8\text{dB}$ (Below 1GHz)
		$\pm 4.8\text{dB}$ (1GHz to 6GHz)
		$\pm 4.5\text{dB}$ (6GHz to 18GHz)
		$\pm 5.02\text{dB}$ (Above 18GHz)



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## 5 Photographs

### 5.1 Test Setup

Refer to Appendix A - Photographs of Set-Up for ZR/2020/A0007.

### 5.2 EUT Constructional Details (EUT Photos)

Refer to Photographs of EUT Constructional Details

- End of the Report -



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