



TEST REPORT

Application No.: ZR/2020/60037
Applicant: Xiaomi Communications Co., Ltd.
Address of Applicant: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer: Xiaomi Communications Co., Ltd.
Address of Manufacturer: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
EUT Description: Mobile Phone
Model No.: M2007J17G
Trade Mark: MI
FCC ID: 2AFZZJ17G
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2020-07-22
Date of Test: 2020-07-27 to 2020-08-15
Date of Issue: 2021-05-30

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

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020-09-01		Original
02		2021/5/29	Leah Chen	1. Modify data conversion error of antenna height 2. Updated equipment list

This report supersedes our previous report ZR/2020/6003707, issued on 2020-09-01, 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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4 General Information

Product Name:	Mobile Phone		
Model No.(EUT):	M2007J17G		
FCC ID:	2AFZZJ17G		
Trade Mark:	MI		
Hardware Version:	P2		
Software Version:	MIUI 12		
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 38	2570~2620	2570~2620
	LTE Band 41	2496~2690	2496~2690
	NR N5	824~849	869~894
	Bluetooth	2400~2483.5	2400~2483.5
	Wi-Fi 2.4G b/g/n	2402~2472	2402~2472
	Wi-Fi 5G a/n/ac	5150~5250	5150~5250
		5250~5350	5250~5350
		5470~5725	5470~5725
		5725~5825	5725~5825
	GNSS*	1599~1610	
	FM	87.5~108	
	NFC	13.56	

* GNSS = GPS + Glonass + Beidou + Galileo

EUT 1= 6+128G EUT2=6+64G

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



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4.2 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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4.3 Test Location

All tests were performed at:

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

No tests were sub-contracted.

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
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2019-09-07	2020-09-06
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2019-12-11	2020-12-10
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



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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
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	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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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:

- 1:GSM850 Idle +BT+WLAN2.4G+GNSS Rx+playing MP4+earphone+EUT1+USB cable+adapter+ant1
- 2:GSM1900 Idle +BT+WLAN5G+GNSS Rx+camera (Back)+earphone+EUT1+USB cable+adapter+ant1
- 3:WCDMA II Idle +BT+WLAN2.4G+GNSS Rx+camera (Front)+earphone+EUT1+USB cable+adapter+ant5
- 4:WCDMA VI Idle +BT+WLAN2.4G+GNSS Rx+camera (Front)+earphone+EUT1+USB cable+adapter+ant1
- 5:WCDMA V Idle +BT+WLAN5G+GNSS Rx+camera (Back)+earphone+EUT1+USB cable+adapter+ant4
- 6:LTE band 2 Link +BT+ WLAN5G+GNSS Rx+NFC+earphone+EUT1+USB cable+adapter+ant1
- 7:LTE band 4 Idle +BT+FM +WLAN2.4G+GNSS Rx+NFC+earphone+EUT1+USB cable+adapter+ant5
- 8:LTE band 5 Idle +BT+FM+WLAN5G+GNSS Rx+NFC+earphone+EUT1+USB cable+adapter+ant4
- 9:LTE band 7 Idle +BT+FM+WLAN2.4G+GNSS Rx+NFC+earphone+EUT1+USB cable+adapter+ant1
- 10:LTE band 38 Link +BT+FM +WLAN5G+GNSS Rx+NFC+earphone+EUT1+USB cable+adapter+ant5
- 11:LTE band 41 Idle +BT+FM +WLAN2.4G+GNSS Rx+NFC+earphone+EUT1+USB cable+adapter+ant1
- 12:ENDC 7a_n5 Idle +BT+FM +WLAN2.4G+GNSS Rx+NFC+earphone+EUT1+USB cable+adapter+ant1
- 13:Transfer data between the EUT1 and the PC+USB cable
- 14:Transfer data between the EUT2 and the PC+USB cable

The worst case for final test: 13:Transfer data between the EUT1 and the PC+USB cable

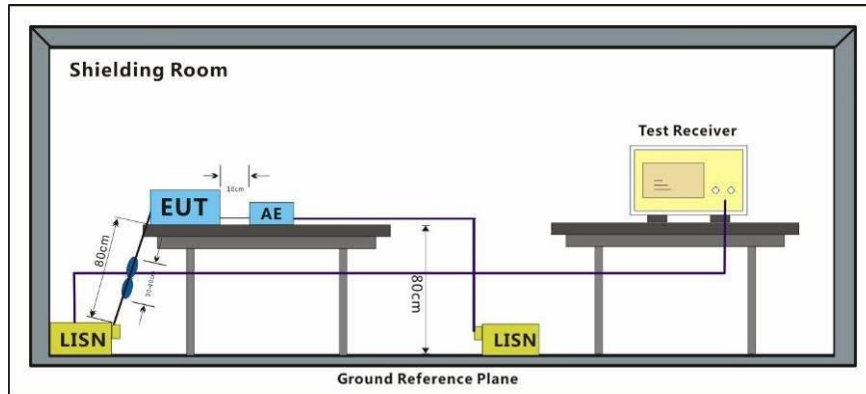


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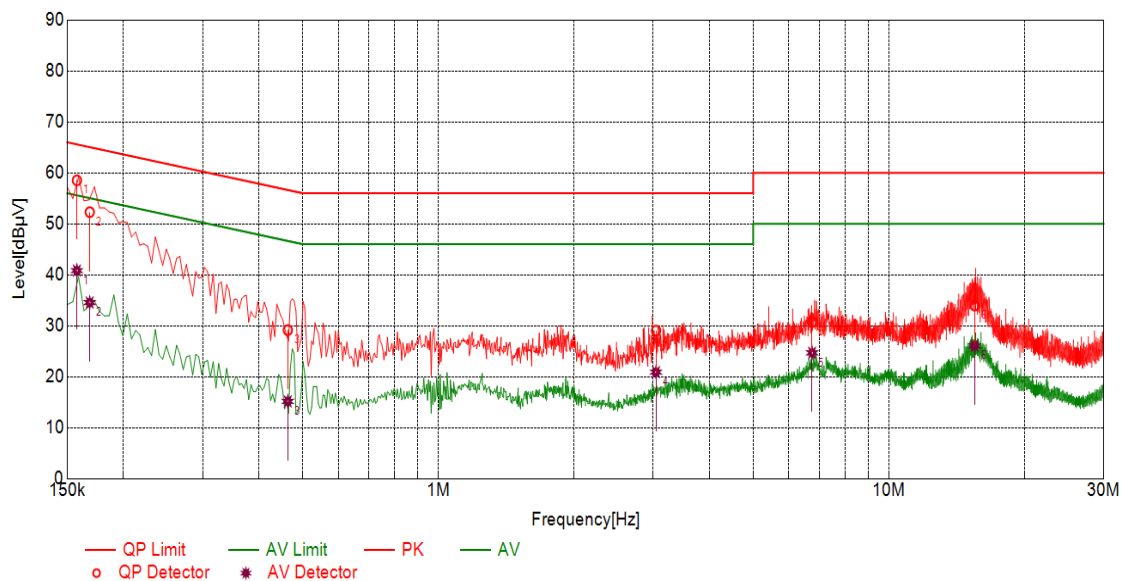
6.1.2 Test Setup Diagram



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:13; 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	0.1577	10.10	58.53	65.58	7.05	40.82	55.58	14.76	L
2	0.1684	10.10	52.29	65.04	12.75	34.55	55.04	20.49	L
3	0.4634	10.10	29.15	56.63	27.48	15.15	46.63	31.48	L
4	3.0427	10.10	29.05	56.00	26.95	20.90	46.00	25.10	L
5	6.7553	10.10	30.73	60.00	29.27	24.68	50.00	25.32	L
6	15.5020	10.11	33.95	60.00	26.05	26.05	50.00	23.95	L



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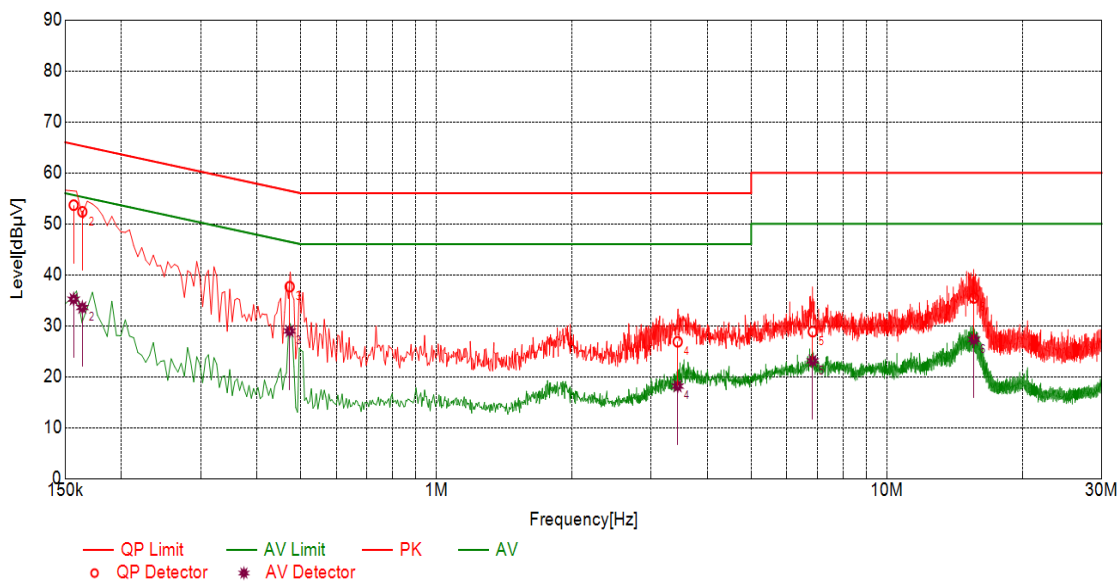
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Mode:13; Line:Neutral Line



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	0.1567	10.10	53.66	65.64	11.98	35.20	55.64	20.44	N
2	0.1638	10.10	52.36	65.27	12.91	33.58	55.27	21.69	N
3	0.4726	10.10	37.66	56.47	18.81	28.95	46.47	17.52	N
4	3.4333	10.10	26.85	56.00	29.15	18.15	46.00	27.85	N
5	6.8455	10.10	28.85	60.00	31.15	23.12	50.00	26.88	N
6	15.6109	10.11	35.46	60.00	24.54	27.32	50.00	22.68	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:
 1:GSM850 Idle +BT+WLAN2.4G+GNSS Rx+playing MP4+earphone+EUT1+USB cable+adapter+ant1
 2:GSM1900 Idle +BT+WLAN5G+GNSS Rx+camera (Back)+earphone+EUT1+USB cable+adapter+ant1
 3:WCDMA II Idle +BT+WLAN2.4G+GNSS Rx+camera (Front)+earphone+EUT1+USB cable+adapter+ant5
 4:WCDMA VI Idle +BT+WLAN2.4G+GNSS Rx+camera (Front)+earphone+EUT1+USB cable+adapter+ant1
 5:WCDMA V Idle +BT+WLAN5G+GNSS Rx+camera (Back)+earphone+EUT1+USB cable+adapter+ant4
 6:LTE band 2 Link +BT+ WLAN5G+GNSS Rx+NFC+earphone+EUT1+USB cable+adapter+ant1
 7:LTE band 4 Idle +BT+FM +WLAN2.4G+GNSS Rx+NFC+earphone+EUT1+USB cable+adapter+ant5
 8:LTE band 5 Idle +BT+FM+WLAN5G+GNSS Rx+NFC+earphone+EUT1+USB cable+adapter+ant4
 9:LTE band 7 Idle +BT+FM+WLAN2.4G+GNSS Rx+NFC+earphone+EUT1+USB cable+adapter+ant1
 10:LTE band 38 Link +BT+FM +WLAN5G+GNSS Rx+NFC+earphone+EUT1+USB cable+adapter+ant5
 11:LTE band 41 Idle +BT+FM +WLAN2.4G+GNSS Rx+NFC+earphone+EUT1+USB cable+adapter+ant1
 12:ENDC 7a_n5 Idle +BT+FM +WLAN2.4G+GNSS Rx+NFC+earphone+EUT1+USB cable+adapter+ant1
 13:Transfer data between the EUT1 and the PC+USB cable
 14:Transfer data between the EUT2 and the PC+USB cable
 The worst case for final test: 4:WCDMA VI Idle +BT+WLAN2.4G+GNSS Rx+camera (Front)+earphone+EUT1+USB cable+adapter+ant1



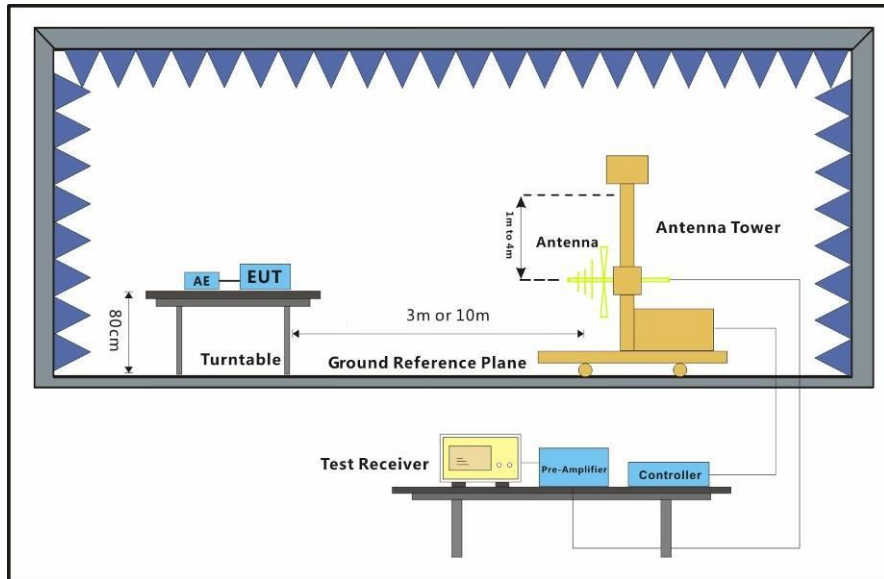
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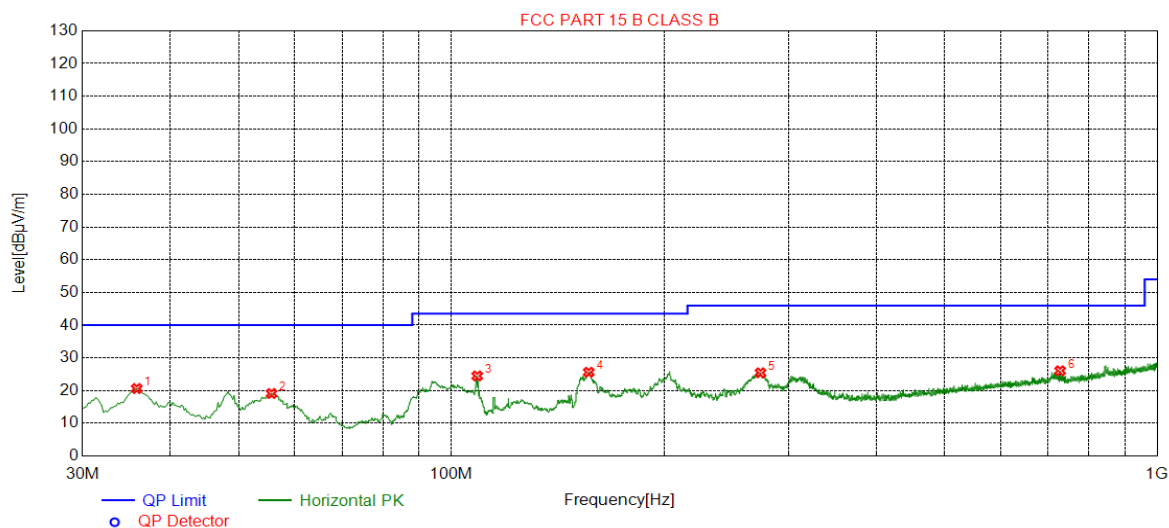
6.2.2 Test Setup Diagram



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:4; Polarization:Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.8212	20.64	-29.69	40.00	19.36	202	262	Horizontal
2	55.6131	19.13	-31.21	40.00	20.87	192	14	Horizontal
3	108.779	24.49	-32.00	43.50	19.01	174	78	Horizontal
4	156.513	25.62	-34.79	43.50	17.88	178	75	Horizontal
5	274.100	25.45	-29.10	46.00	20.55	113	220	Horizontal
6	728.539	26.06	-18.84	46.00	19.94	239	256	Horizontal



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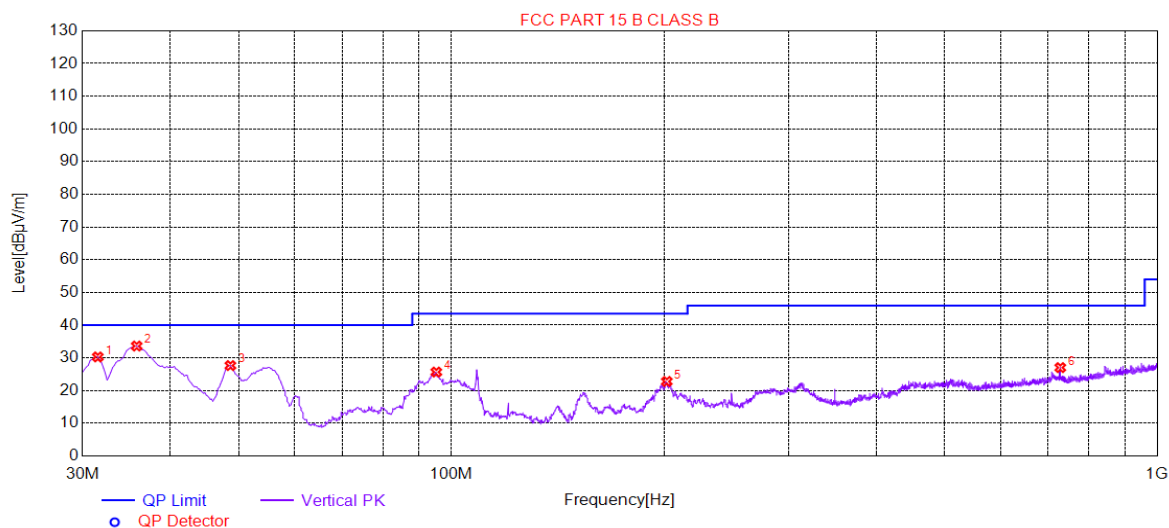
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Mode:4; Polarization:Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	31.5523	30.29	-30.04	40.00	9.71	151	4	Vertical
2	35.8212	33.63	-29.69	40.00	6.37	224	320	Vertical
3	48.6277	27.66	-30.38	40.00	12.34	271	346	Vertical
4	95.1970	25.67	-32.85	43.50	17.83	260	224	Vertical
5	201.918	22.80	-31.14	43.50	20.70	267	232	Vertical
6	728.927	27.03	-18.83	46.00	18.97	196	278	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) 1000M 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:
 1:GSM850 Idle +BT+WLAN2.4G+GNSS Rx+playing MP4+earphone+EUT1+USB cable+adapter+ant1

2:GSM1900 Idle +BT+WLAN5G+GNSS Rx+camera (Back)+earphone+EUT1+USB cable+adapter+ant1

3:WCDMA II Idle +BT+WLAN2.4G+GNSS Rx+camera (Front)+earphone+EUT1+USB cable+adapter+ant5

4:WCDMA VI Idle +BT+WLAN2.4G+GNSS Rx+camera (Front)+earphone+EUT1+USB cable+adapter+ant1

5:WCDMA V Idle +BT+WLAN5G+GNSS Rx+camera (Back)+earphone+EUT1+USB cable+adapter+ant4

6:LTE band 2 Link +BT+ WLAN5G+GNSS Rx+NFC+earphone+EUT1+USB cable+adapter+ant1

7:LTE band 4 Idle +BT+FM +WLAN2.4G+GNSS Rx+NFC+earphone+EUT1+USB cable+adapter+ant5

8:LTE band 5 Idle +BT+FM+WLAN5G+GNSS Rx+NFC+earphone+EUT1+USB cable+adapter+ant4

9:LTE band 7 Idle +BT+FM+WLAN2.4G+GNSS Rx+NFC+earphone+EUT1+USB cable+adapter+ant1

10:LTE band 38 Link +BT+FM +WLAN5G+GNSS Rx+NFC+earphone+EUT1+USB cable+adapter+ant5

11:LTE band 41 Idle +BT+FM +WLAN2.4G+GNSS Rx+NFC+earphone+EUT1+USB cable+adapter+ant1

12:ENDC 7a_n5 Idle +BT+FM +WLAN2.4G+GNSS Rx+NFC+earphone+EUT1+USB cable+adapter+ant1

13:Transfer data between the EUT1 and the PC+USB cable

14:Transfer data between the EUT2 and the PC+USB cable

The worst case for final test: 4:WCDMA VI Idle +BT+WLAN2.4G+GNSS Rx+camera (Front)+earphone+EUT1+USB cable+adapter+ant1

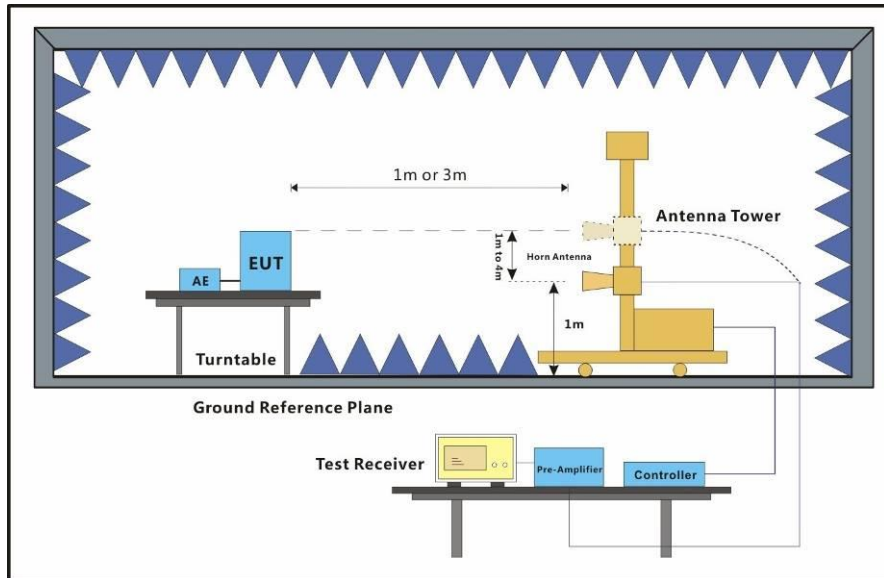


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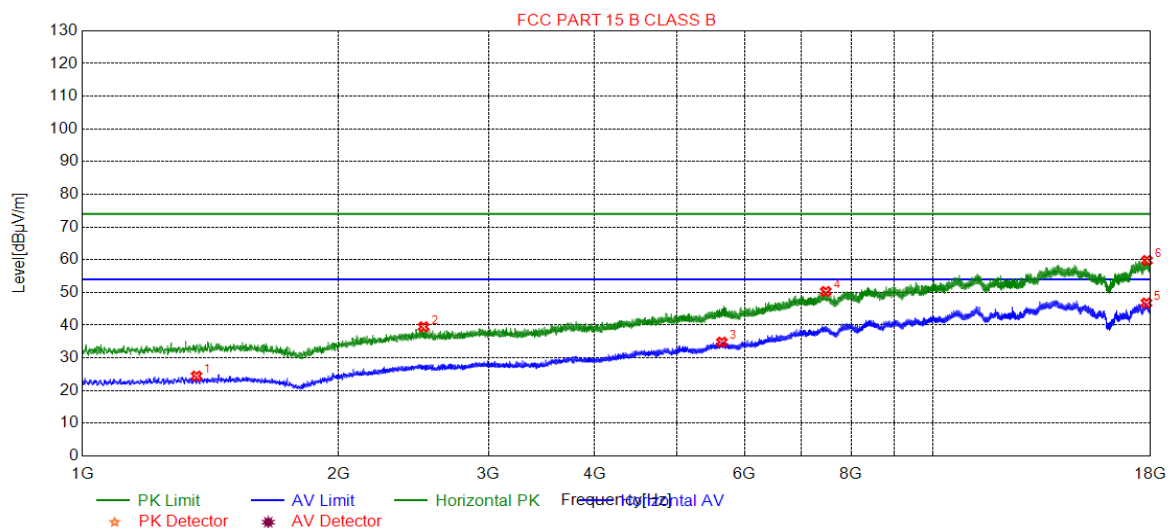
6.3.2 Test Setup Diagram



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:4; Polarization:Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1362.11	24.45	-30.47	54.00	29.55	236	167	Horizontal
2	2517.32	39.51	-25.87	74.00	34.49	230	232	Horizontal
3	5642.93	34.83	-15.77	54.00	19.17	238	243	Horizontal
4	7473.92	50.31	-9.80	74.00	23.69	199	54	Horizontal
5	17798.5	46.80	0.69	54.00	7.20	211	194	Horizontal
6	17823.1	59.79	0.56	74.00	14.21	244	129	Horizontal

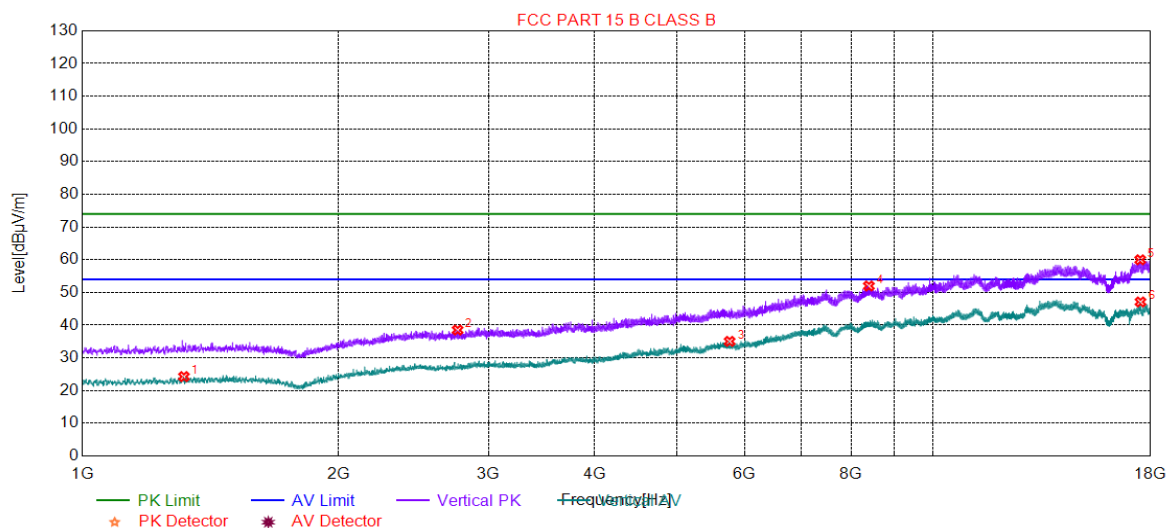


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Mode 4; Polarization:Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1316.21	24.29	-30.68	54.00	29.71	258	129	Vertical
2	2760.43	38.52	-25.35	74.00	35.48	263	307	Vertical
3	5761.93	35.05	-15.70	54.00	18.95	152	194	Vertical
4	8398.76	51.99	-7.79	74.00	22.01	183	15	Vertical
5	17500.1	60.00	1.64	74.00	14.00	168	279	Vertical
6	17513.7	47.11	1.55	54.00	6.89	254	156	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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