



TEST REPORT

Application No.: AR/2020/A0007
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.: M2010J19SG, M2010J19ST
Trade Mark: Redmi
FCC ID: 2AFZZJ19CG
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2020/9/29(for original report AR/2020/9001006)
Date of Test: 2020/9/29 to 2020/10/16(for original report AR/2020/9001006)
2020/11/3 to 2020/11/10(for new report AR/2020/A000706)
Date of Issue: 2020/10/18(for original report AR/2020/9001006)
2020/11/13(for new report AR/2020/A000701)

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

Authorized Signature:

Derek Yang

Wireless Laboratory Manager

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020/11/13		Original

Authorized for issue by:				
		 David Chen/Project Engineer		
		 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

Remark:

Item	M2010J19SG	M2010J19ST
LTE Band 41	Support	Not Support

Note: customer declaration, two models are the same, except for model. There are more than one model, each one should be applied throughout the compliance test respectively, However, only the worst case (M2010J19SG) will be recorded in this report.

This report is changed to model based on the original report number AR/2020/9001006

The revised contents are as follow:

Model name	Camera specification	LED position	Camera position	Trade Mark	rear cover
M2010J19CG, M2010J19CT	48M+2M+2M	The LED is located to the right of the macro camera	Viewed from the back, the macro camera, main camera and depth-of-field camera appear from top to bottom	POCO	The material is the same, Camera area coverage

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M2010J19SG M2010J19ST	48M+8M+2M+2M	The LED is located below the depth-of-field camera	Viewed from the back, the wide Angle camera, main camera and depth of field camera are in order from top to bottom, and add single macro camera is on the right	Redmi	shape adjustment, drawing is different, laser engraving is different
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Based on the above differences, Spot check AR/2020/9001006 worse mode

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4 General Information

Product Name:	Mobile Phone		
Model No.(EUT):	M2010J19SG,M2010J19ST		
FCC ID:	2AFZZJ19CG		
Trade Mark:	Redmi		
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	2535~2655	2535~2655
	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	

* GNSS = GPS + Glonass + Beidou + Galileo+SBAS

EUT 1= 4+64G EUT2=6+128G EUT3=4+128G

4.1 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	T430u	REF. No.SEA1800
Mouse	Lenovo	M-U0025-O	REF. No.:SEA2400
Router	NETGEAR	DGN2200	REF. No.SEA2200

4.2 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.4dB (150kHz to 30MHz)
2	Radiated Emission	± 4.8dB (30MHz-1GHz)

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		± 5.2dB (1GHz-6GHz)
		± 5.5dB (6GHz-18GHz)
		± 5.02dB (18GHz-40GHz)
3	Temperature test	± 1°C
4	Humidity test	± 3%

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4.3 Test Location

All tests were performed at:

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Xi'an Branch
Address:	Single floor D, building 1, Kanghong orange square science and technology park, No.137 keyuan 3rd road, fengdong new town, Xi 'an city, Shaanxi China
Post code:	710000
Telephone:	+86 (0) 29 6282 7885
Fax:	+86 (0) 29 6282 7885
E-mail:	ee.xian@sgs.com

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 CO., LTD. XIAN BRANCH

is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

Test Site No.:	SGS Xian Site No.		FCC Designation No.
	CO01-XA	03CH01-XA	CN1271

4.5 Deviation from Standards

None

4.6 Abnormalities from Standard Conditions

None

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5 Equipment List

Radiated Emissions (30MHz~ 40GHz)					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
966 Test chamber	Brilliant-emc	NA	XAW040101	2019/6/11	2022/6/9
BiConiLog Antenna (30MHz-3GHz)	rosenberge	VULB 9163	XAW010901	2018/8/8	2021/8/7
Horn Antenna (800MHz-18GHz)	rosenberger	BBHA 9120D	XAW010902	2018/7/18	2021/7/17
Horn Antenna (18-40GHz)	rosenberge	BBHA 9170	XAW010903	2018/8/1	2021/7/31
Amplifier(9kHz-3GHz)	Tonscend	TAP00903040	XAW030601	2019/11/18	2020/11/18
Amplifier(100MHz-18GHz)	Tonscend	TAP01018048	XAW030602	2019/11/18	2020/11/18
Amplifier(18-40GHz)	Tonscend	TAP18040048	XAW030603	2019/11/18	2020/11/18
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2020/4/2	2021/4/2
Test receiver	Rohde & Schwarz	ESR	XAW010801	2020/9/6	2021/9/7
MXA signal analyzer	Rohde & Schwarz	FSV	XAW040103	2020/4/2	2021/4/3
Measurement Software	Tonscend	TS+	N/A	N/A	N/A
Filter bank	Tonscend	JS0806-F	N/A	N/A	N/A
Filter bank	Tonscend	JS0806s	N/A	N/A	N/A

Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
Shield Room	Brilliant-emc	NA	XAW08043	NA	NA
Test receiver	Rohde & Schwarz	ESR	XAW010801	2020/9/6	2021/9/7
Artificial network	Rohde & Schwarz	ENV216	XAW01-19-02	2020/09/15	2021/9/16
Artificial network	Rohde & Schwarz	ENV216	XAW013001	2020/7/16	2021/7/15
Cabel	SGS	NA	NA	NA	NA
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-02	2020/4/2	2021/4/2

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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:

* Stands for spot check mode

- 1: Transfer data between the EUT1 and the PC+USB cable1
- 2: Transfer data between the EUT1 and the PC+USB cable2
- 3: GSM850 Idle +BT+WLAN2.4G+GNSS Rx+playing MP4+earphone+EUT1+USB cable1+adapter1+ant down
- 4: GSM1900 Idle +BT+WLAN5G+GNSS Rx+camera (Back)+earphone+EUT1+USB cable1+adapter2+ant down
- 5: WCDMA II Idle +BT+WLAN2.4G+GNSS Rx+camera (Front)+earphone+EUT1+USB cable1+adapter1+ant down
- 6: WCDMA VI Link +BT+WLAN2.4G+GNSS Rx+camera (Front)+earphone+EUT1+USB cable1+adapter1+ant down
- 7: WCDMA V Idle +BT+WLAN5G+GNSS Rx+camera (Back)+earphone+EUT1+USB cable1+adapter1+ant down
- 8: LTE band 2 Link +BT+ WLAN5G+GNSS Rx+earphone+EUT1+USB cable1+adapter1+ant down
- 9: LTE band 4 Idle +BT+FM +WLAN2.4G+GNSS Rx+earphone+EUT1+USB cable1+adapter1+ant down
- 10: LTE band 5 Idle +BT+FM+WLAN5G+GNSS Rx+earphone+EUT1+USB cable1+adapter1+ant down
- 11: LTE band 7 Idle +BT+FM+WLAN2.4G+GNSS Rx+earphone+EUT1+USB cable1+adapter1+ant down
- 12: LTE band 38 Link +BT+FM +WLAN5G+GNSS Rx+earphone+EUT1+USB cable1+adapter1+ant down
- 13: LTE band 41 Idle +BT+FM +WLAN2.4G+GNSS Rx+earphone+EUT1+USB cable1+adapter1+ant down
- 14: WCDMA VI Link +BT+WLAN2.4G+GNSS Rx+camera

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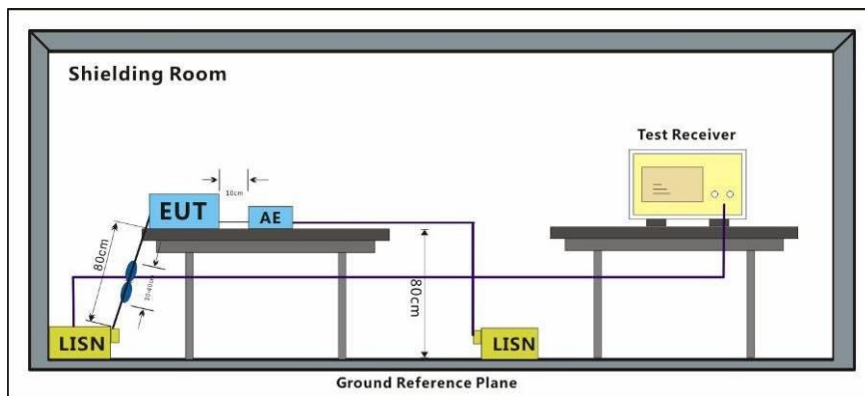
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(Front)+earphone+EUT2+USB cable1+adapter1+ant down
 15:WCDMA VI Link +BT+WLAN2.4G+GNSS Rx+camera
 (Front)+earphone+EUT3+USB cable1+adapter1+ant down
 6*:WCDMA VI Link +BT+WLAN2.4G+GNSS Rx+camera
 (Front)+earphone+EUT1+USB cable1+adapter1+ant down

The worst case for final test: 6*:WCDMA VI Link +BT+WLAN2.4G+GNSS Rx+camera
 (Front)+earphone+EUT1+USB cable1+adapter1+ant down

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.

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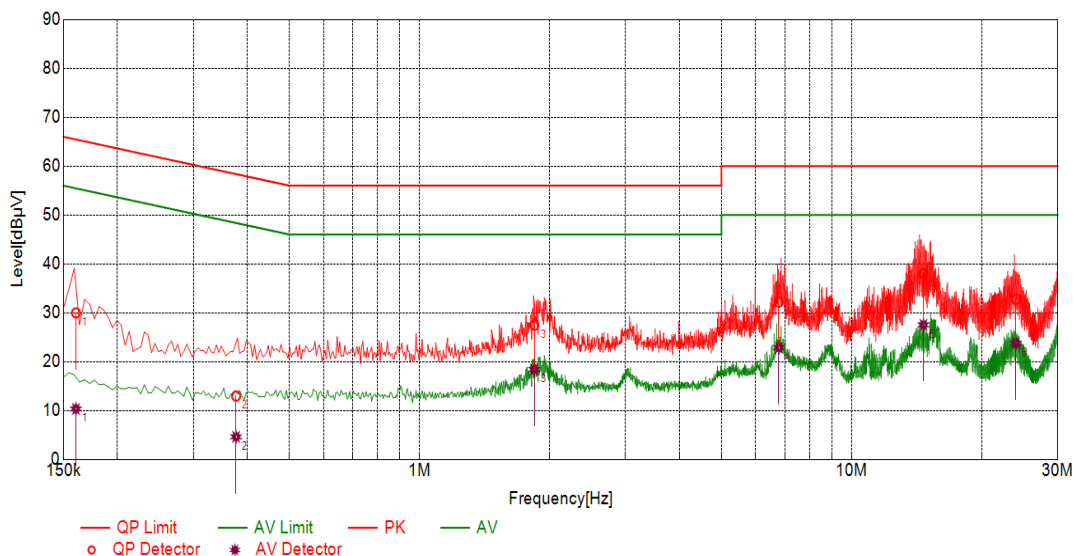
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Mode:6*; Line:Live Line



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	0.1575	10.10	31.94	65.60	33.66	14.31	55.60	41.29	L
2	0.4471	10.10	26.10	56.93	30.83	13.32	46.93	33.61	L
3	1.9028	10.10	25.96	56.00	30.04	12.00	46.00	34.00	L
4	6.8376	10.10	33.90	60.00	26.10	24.64	50.00	25.36	L
5	14.0803	10.11	39.24	60.00	20.76	29.01	50.00	20.99	L
6	29.9989	10.11	36.59	60.00	23.41	26.79	50.00	23.21	L

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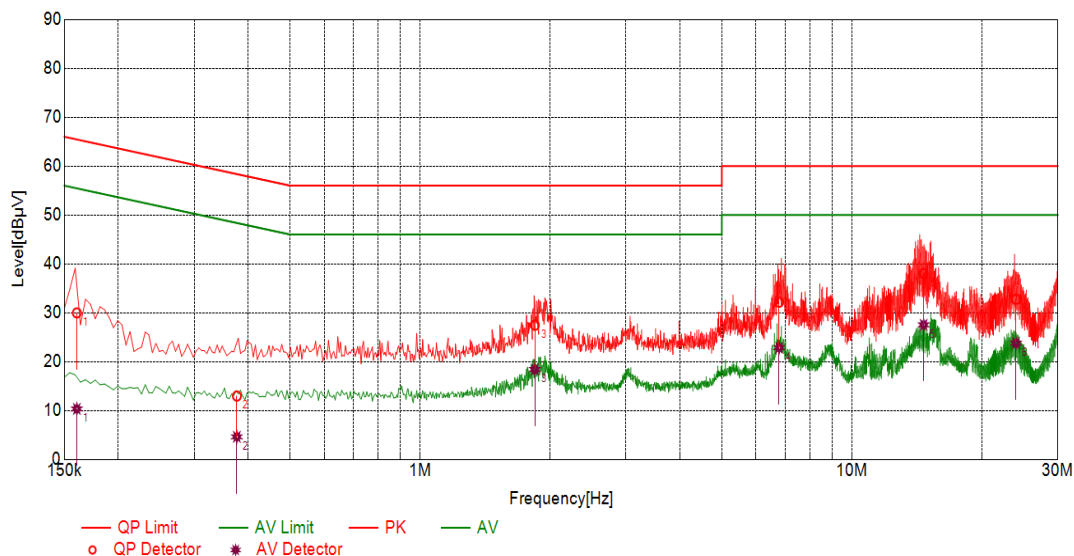
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Mode:6*; Line:Neutral Line



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	0.1604	10.10	29.97	65.44	35.47	10.32	55.44	45.12	N
2	0.3765	10.10	12.96	58.36	45.40	4.61	48.36	43.75	N
3	1.8445	10.10	27.45	56.00	28.55	18.39	46.00	27.61	N
4	6.7879	10.10	32.16	60.00	27.84	22.86	50.00	27.14	N
5	14.6687	10.11	38.01	60.00	21.99	27.52	50.00	22.48	N
6	24.0025	10.11	32.78	60.00	27.22	23.77	50.00	26.23	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:

* Stands for spot check mode

- 1:Transfer data between the EUT1 and the PC+USB cable1
- 2:Transfer data between the EUT1 and the PC+USB cable2
- 3:GSM850 Idle +BT+WLAN2.4G+GNSS Rx+playing MP4+earphone+EUT1+USB cable1+adapter1+ant down
- 4:GSM1900 Idle +BT+WLAN5G+GNSS Rx+camera (Back)+earphone+EUT1+USB cable1+adapter2+ant down
- 5:WCDMA II Idle +BT+WLAN2.4G+GNSS Rx+camera (Front)+earphone+EUT1+USB cable1+adapter1+ant down
- 6:WCDMA VI Idle +BT+WLAN2.4G+GNSS Rx+camera (Front)+earphone+EUT1+USB cable1+adapter1+ant down
- 7:WCDMA V Idle +BT+WLAN5G+GNSS Rx+camera (Back)+earphone+EUT1+USB cable1+adapter1+ant down
- 8:LTE band 2 Idle +BT+ WLAN5G+GNSS Rx+earphone+EUT1+USB cable1+adapter1+ant down
- 9:LTE band 4 Idle +BT+FM +WLAN2.4G+GNSS Rx+earphone+EUT1+USB cable1+adapter1+ant down
- 10:LTE band 5 Idle +BT+FM+WLAN5G+GNSS Rx+earphone+EUT1+USB cable1+adapter1+ant down
- 11:LTE band 7 Idle +BT+FM+WLAN2.4G+GNSS Rx+earphone+EUT1+USB cable1+adapter1+ant down
- 12:LTE band 38 Idle +BT+FM +WLAN5G+GNSS Rx+earphone+EUT1+USB cable1+adapter1+ant down
- 13:LTE band 41 Idle +BT+FM +WLAN2.4G+GNSS Rx+earphone+EUT1+USB cable1+adapter1+ant down
- 14:Transfer data between the EUT2 and the PC+USB cable1
- 15:Transfer data between the EUT3 and the PC+USB cable1

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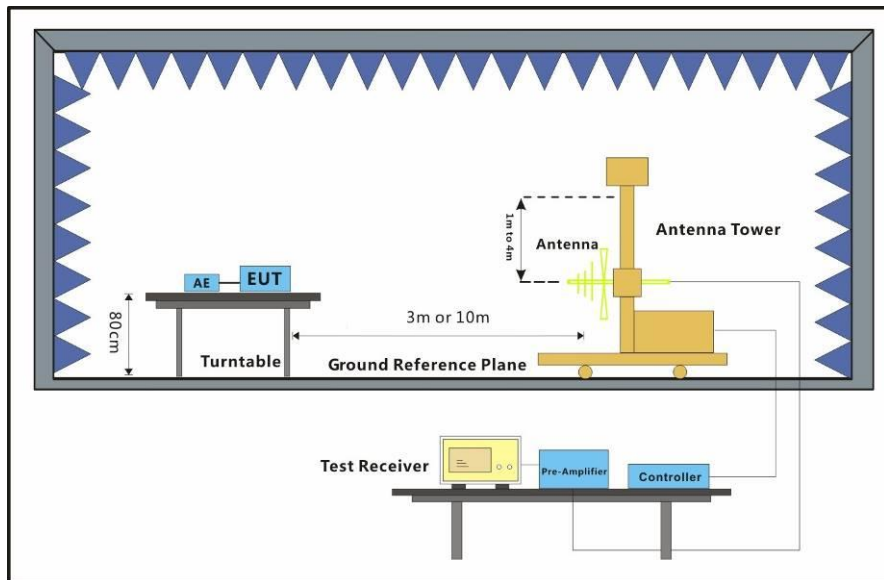
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6*:WCDMA VI Idle +BT+WLAN2.4G+GNSS Rx+camera
(Front)+earphone+EUT1+USB cable1+adapter1+ant down
1*:Transfer data between the EUT1 and the PC+USB cable1

The worst case
for final test:

1*:Transfer data between the EUT1 and the PC+USB cable1

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.

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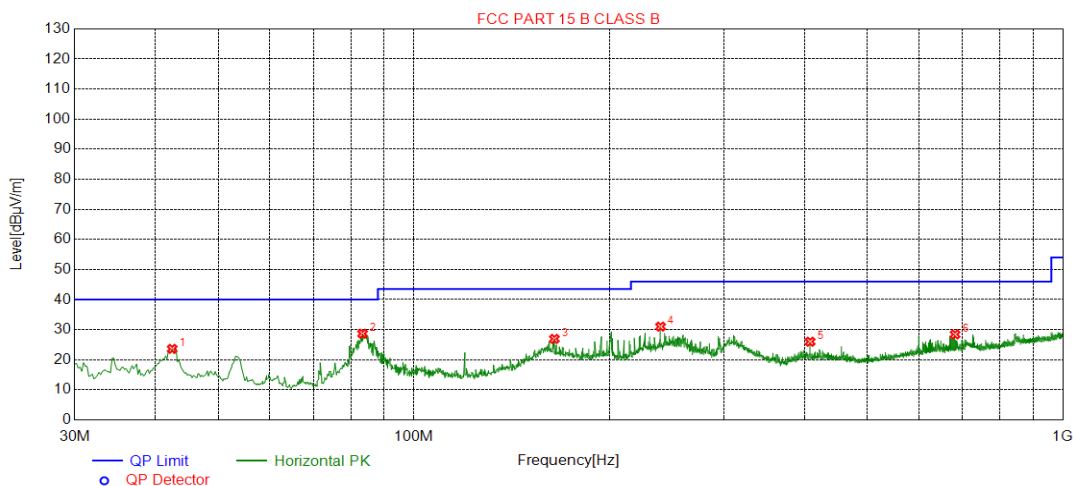
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Mode:1*; Polarization:Horizontal



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.4185	23.64	-29.35	40.00	16.36	200	93	Horizontal
2	83.3607	28.67	-35.34	40.00	11.33	200	25	Horizontal
3	164.662	26.95	-34.35	43.50	16.55	200	298	Horizontal
4	239.950	31.02	-30.07	46.00	14.98	200	257	Horizontal
5	407.987	26.01	-25.35	46.00	19.99	200	63	Horizontal
6	682.358	28.42	-19.69	46.00	17.58	100	56	Horizontal

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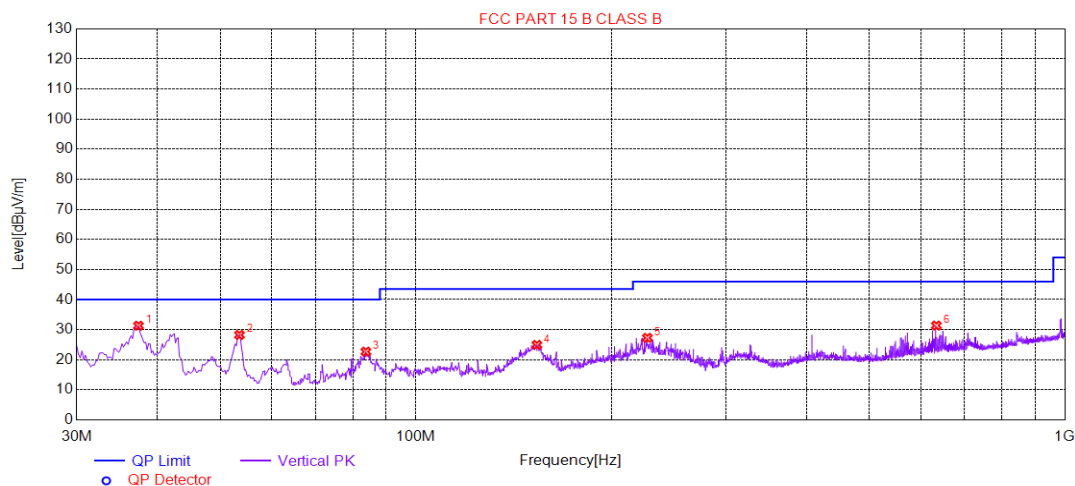
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Mode:1*; Polarization:Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	37.3735	31.32	-29.19	40.00	8.68	100	3	Vertical
2	53.4787	28.26	-30.89	40.00	11.74	100	311	Vertical
3	83.7488	22.70	-35.24	40.00	17.30	200	338	Vertical
4	153.602	24.95	-34.92	43.50	18.55	100	343	Vertical
5	227.337	27.30	-30.49	46.00	18.70	200	14	Vertical
6	634.042	31.37	-20.22	46.00	14.63	200	25	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: Transfer data between the EUT1 and the PC+USB cable1
- 2: Transfer data between the EUT1 and the PC+USB cable2
- 3: GSM850 Idle +BT+WLAN2.4G+GNSS Rx+playing MP4+earphone+EUT1+USB cable1+adapter1+ant down
- 4: GSM1900 Idle +BT+WLAN5G+GNSS Rx+camera (Back)+earphone+EUT1+USB cable1+adapter2+ant down
- 5: WCDMA II Idle +BT+WLAN2.4G+GNSS Rx+camera (Front)+earphone+EUT1+USB cable1+adapter1+ant down
- 6: WCDMA VI Idle +BT+WLAN2.4G+GNSS Rx+camera (Front)+earphone+EUT1+USB cable1+adapter1+ant down
- 7: WCDMA V Idle +BT+WLAN5G+GNSS Rx+camera (Back)+earphone+EUT1+USB cable1+adapter1+ant down
- 8: LTE band 2 Idle +BT+ WLAN5G+GNSS Rx+earphone+EUT1+USB cable1+adapter1+ant down
- 9: LTE band 4 Idle +BT+FM +WLAN2.4G+GNSS Rx+earphone+EUT1+USB cable1+adapter1+ant down
- 10: LTE band 5 Idle +BT+FM+WLAN5G+GNSS Rx+earphone+EUT1+USB cable1+adapter1+ant down
- 11: LTE band 7 Idle +BT+FM+WLAN2.4G+GNSS Rx+earphone+EUT1+USB cable1+adapter1+ant down
- 12: LTE band 38 Idle +BT+FM +WLAN5G+GNSS Rx+earphone+EUT1+USB cable1+adapter1+ant down
- 13: LTE band 41 Idle +BT+FM +WLAN2.4G+GNSS Rx+earphone+EUT1+USB cable1+adapter1+ant down
- 14: GSM1900 Idle +BT+WLAN5G+GNSS Rx+camera (Back)+earphone+EUT2+USB cable1+adapter2+ant down
- 15: GSM1900 Idle +BT+WLAN5G+GNSS Rx+camera (Back)+earphone+EUT3+USB cable1+adapter2+ant down
- 4*: GSM1900 Idle +BT+WLAN5G+GNSS Rx+camera (Back)+earphone+EUT1+USB cable1+adapter2+ant down

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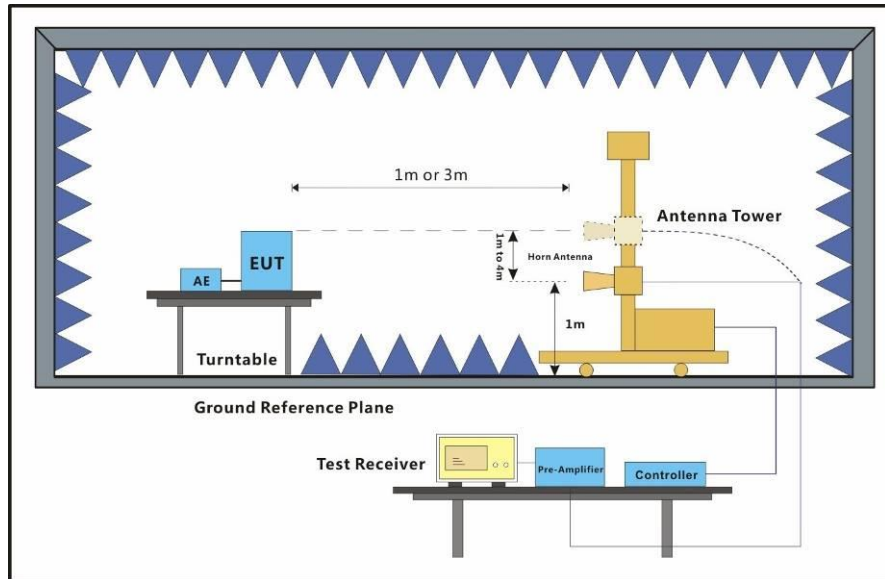
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The worst case for final test: 4*:GSM1900 Idle+BT+WLAN5G+GNSS Rx+camera (Back)+earphone+EUT1+USB cable1+adapter2+ant down

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.

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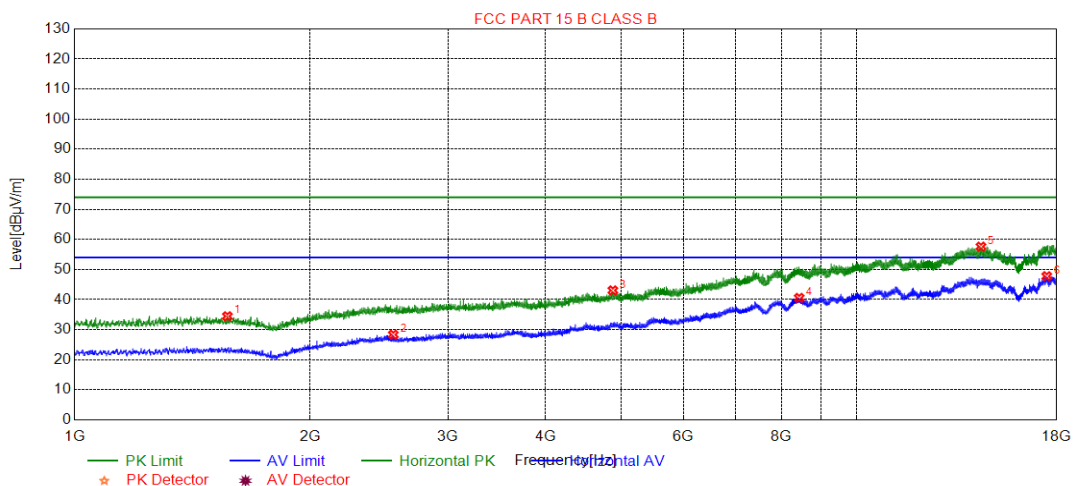
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Mode:4*; Polarization:Horizontal



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1567.82	34.48	-30.36	74.00	39.52	100	45	Horizontal
2	2554.72	28.34	-25.90	54.00	25.66	100	196	Horizontal
3	4874.49	43.07	-17.89	74.00	30.93	100	158	Horizontal
4	8436.17	40.57	-7.72	54.00	13.43	200	202	Horizontal
5	14400.9	57.62	1.96	74.00	16.38	100	8	Horizontal
6	17478.9	47.78	1.37	54.00	6.22	100	8	Horizontal

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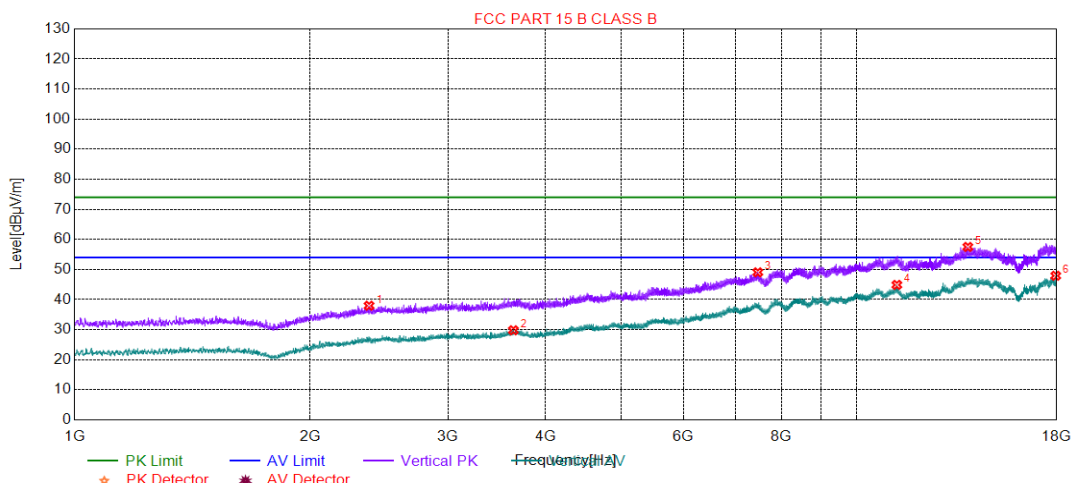
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Mode 4*; Polarization:Vertical



Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2378.76	37.97	-26.56	74.00	36.03	200	90	Vertical
2	3637.68	29.81	-22.66	54.00	24.19	100	81	Vertical
3	7467.97	49.08	-9.81	74.00	24.92	200	315	Vertical
4	11243.8	44.90	-2.79	54.00	9.10	200	90	Vertical
5	13856.0	57.52	1.99	74.00	16.48	200	240	Vertical
6	17944.7	47.93	-0.07	54.00	6.07	200	165	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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