

EMC TEST REPORT



Applicant:	Xiaomi Communications Co., Ltd.
Address:	The Rainbow City of China Resources, NO.68, Qinghe Middle Street, Haidian District, Beijing, China

Manufacturer or Supplier:	Xiaomi Communications Co., Ltd.
Address:	The Rainbow City of China Resources, NO.68, Qinghe Middle Street, Haidian District, Beijing, China
Product:	Mobile Phone
Brand Name:	XIAOMI
Model Name:	M1904F3BG
FCC ID:	2AFZZF3BG
Date of tests:	Jul. 15, 2019 ~ Aug. 4, 2019

The submitted sample of the above equipment has been tested for according to the requirements of the following standards:

- ☒ FCC Part 15, Subpart B, Class B
- ☒ ANSI C63.4:2014

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Alex Chen Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
 Date: Aug. 4, 2019	 Date: Aug. 4, 2019

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Test Report No.: FV190712W002

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FV190712W002	Original release	Aug. 4, 2019

1 GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Mobile Phone	
BRAND NAME	XIAOMI	
MODEL NAME	M1904F3BG	
NOMINAL VOLTAGE	5.0V/9.0V/12.0V (adapter or host equipment) 3.85Vdc (Li-ion, battery)	
MODULATION TYPE	WLAN	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
	BT_LE	GFSK
	Bluetooth	GFSK, $\pi/4$ -DQPSK, 8DPSK
	GPS/ GLONASS / BDS/ GALILEO/ SBAS	BPSK
	FM	FM
	GSM/GPRS/EDGE	GMSK, 8PSK
	WCDMA	BPSK/QPSK
	LTE	QPSK/16QAM/64QAM
OPERATING FREQUENCY	WLAN	2412 ~ 2462MHz for 11b/g/n(HT20) 5180 ~ 5240MHz, 5260 ~ 5320 MHz, 5500 ~ 5700MHz, 5745 ~ 5825 MHz for 11a/ n(HT20)/ n(HT40) / ac(VHT80)
	Bluetooth/BT_LE	2402MHz ~ 2480MHz
	GPS/ GLONASS/ BDS/ GALILEO/ SBAS	1559MHz ~ 1610MHz
	FM	87.5MHz ~ 108MHz
	NFC	13.56MHz
	GSM	824.2MHz ~ 848.8MHz (FOR GSM 850) 1850.2MHz ~ 1909.8MHz (FOR GSM 1900)
	WCDMA	1852.4MHz ~ 1907.6MHz(FOR WCDMA Band 2) 1712.4MHz ~ 1752.6MHz(FOR WCDMA Band 4) 826.4MHz ~ 846.6MHz (FOR WCDMA Band 5)
	LTE	1850.7MHz ~ 1909.3MHz (FOR LTE Band2) 1710.7MHz ~ 1754.3MHz (FOR LTE Band4) 824.7MHz ~ 848.3MHz (FOR LTE Band5) 2502.5MHz ~ 2567.5MHz (FOR LTE Band7) 2572.5MHz ~ 2617.5MHz (FOR LTE Band38)



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HW VERSION	P1
SW VERSION	MIUI 10
I/O PORTS	Refer to user's manual
THE HIGHEST OPERATING FREQUENCY	5825MHz
ACCESSORY DEVICES	Refer to note as below

NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
3. List of Accessory:

ACCESSORIES	BRAND	MODEL	MANUFACTURER	SPECIFICATION
Battery	MI	BM4F	Sunwoda Electronic Co., Ltd	Rating: 3.85Vdc, 4030mAh
AC Adapter	MI	MDY-10-ED	Jiansu Chenyang Electron Co., Ltd	I/P:100-240Vac, 0.5A O/P: 5Vdc, 3A 9Vdc, 2A/ 12Vdc, 1.5A
USB Cable 1	MI	K23312	Suzhou Keli Science&Technology Development Co., Ltd	1.0m non-shielded cable, with w/o ferrite core
Earphone	MI	EM023	One More Acoustics Technology Co., Ltd	1.25m non-shielded cable, with w/o ferrite core

1.2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart B			
Standard Section	Test Item	Result	Remark
FCC Part 15, Subpart B, Class B ANSI C63.4:2014	Conducted Test	PASS	Meets limits minimum passing margin is -18.67 dB at 0.540000MHz.
	Radiated Emission Test (30MHz ~ 1GHz)	PASS	Meets Class B Limit Minimum passing margin is -7.1dB at 31.94MHz
	Radiated Emission Test (Above 1GHz)	PASS	Meets Class B Limit Minimum passing margin is -14.77dB at 7307MHz

1.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	150kHz ~ 30MHz	±2.70dB
Radiated emissions	30MHz~1GMHz	±4.98dB
	1GMHz ~6GMHz	±4.70dB
	6GMHz ~18GMHz	±4.60dB
	18GMHz ~40GMHz	±4.12dB



1.4 DESCRIPTION OF TEST MODES

Test Mode	Test Condition
Radiated emission test	
1	GSM850 Idle+Adapter+USB cable+Earphone+BT Idle+WIFI 2.4G Idle+GPS Rx+Front Camera On+SIM1
2	GSM1900 Idle+Adapter+USB cable+Earphone+BT Idle+WIFI 5G Idle+GLONASS Rx+Back Camera On+SIM2
3	WCDMA B2 Idle+Adapter+USB cable+Earphone+BT Idle+WIFI 2.4G Idle+BDS Rx+FM RX +SIM1
4	WCDMA B4 Idle+Adapter+USB cable+Earphone+BT Idle+WIFI 5G Idle+GALILEO Rx+NFC +SIM2
5	WCDMA B5 Idle+Adapter+USB cable+Earphone+BT Idle+WIFI 2.4G Idle+SBAS Rx+MPG4 RX +SIM1
6	LTE B2 Idle+Adapter+USB cable+Earphone+BT Idle+WIFI 5G Idle+GPS Rx+ Front Camera On +SIM2
7	LTE B4 Idle+Adapter+USB cable+Earphone+BT Idle+WIFI 2.4G Idle+GLONASS Rx+ Back Camera On +SIM1
8	LTE B5 Idle+Adapter+USB cable+Earphone+BT Idle+WIFI 5G Idle+BDS Rx+ FM RX +SIM2
9	LTE B7 Idle+Adapter+USB cable+Earphone+BT Idle+WIFI 2.4G Idle+GALILEO Rx+NFC+SIM1
10	LTE B38 Idle+Adapter+USB cable+Earphone+BT Idle+WIFI 5G Idle+SBAS Rx+MPG4 +SIM2
11	GSM 850 Idle+USB Link+Earphone+BT Idle+ WIFI 2.4G Idle+GPS Rx+ Data Transmission(Notebook to EUT)+SIM1
12	WCDMA B2 Idle+USB Link+Earphone+BT Idle+ WIFI 5G Idle+ GLONASS Rx + Data Transmission(Notebook to SD)+SIM2
Conducted emission test	
1	GSM850 Idle+Adapter+USB cable+Earphone+BT Idle+WIFI 2.4G Idle+GPS Rx+Front Camera On+SIM1
2	GSM1900 Idle+Adapter+USB cable+Earphone+BT Idle+WIFI 5G Idle+GLONASS Rx+Back Camera On+SIM2
3	WCDMA B2 Idle+Adapter+USB cable+Earphone+BT Idle+WIFI 2.4G Idle+BDS Rx+FM RX +SIM1
4	WCDMA B4 Idle+Adapter+USB cable+Earphone+BT Idle+WIFI 5G Idle+GALILEO Rx+NFC +SIM2
5	WCDMA B5 Idle+Adapter+USB cable+Earphone+BT Idle+WIFI 2.4G Idle+SBAS Rx+MPG4 RX +SIM1
6	LTE B2 Idle+Adapter+USB cable+Earphone+BT Idle+WIFI 5G Idle+GPS Rx+ Front Camera On +SIM2
7	LTE B4 Idle+Adapter+USB cable+Earphone+BT Idle+WIFI 2.4G Idle+GLONASS Rx+ Back Camera On +SIM1
8	LTE B5 Idle+Adapter+USB cable+Earphone+BT Idle+WIFI 5G Idle+BDS Rx+ FM RX +SIM2
9	LTE B7 Idle+Adapter+USB cable+Earphone+BT Idle+WIFI 2.4G Idle+GALILEO Rx+NFC+SIM1
10	LTE B38 Idle+Adapter+USB cable+Earphone+BT Idle+WIFI 5G Idle+SBAS Rx+MPG4 +SIM2
11	GSM 850 Idle+USB Link+Earphone+BT Idle+ WIFI 2.4G Idle+GPS Rx+ Data Transmission(Notebook to EUT)+SIM1
12	WCDMA B2 Idle+USB Link+Earphone+BT Idle+ WIFI 5G Idle+ GLONASS Rx + Data Transmission(Notebook to SD)+SIM2



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NOTE:

1. For conducted emission test, test mode 10 was the worst case and only this mode was presented in this report.
2. For radiated emission test, test mode 1 was the worst case and only this mode was presented in this report

1.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

FOR ALL TESTS

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Wireless AP	ABOCOM	WR224GR	060500749P	N/A
2	Bluetooth Earphone	FAP00	H6080	12098	N/A
3	IC Card	N/A	N/A	N/A	N/A
4	SD	San Disk	Ultra	N/A	N/A
5	Notebook	DELL	E6420	N/A	N/A
6	FM signal generator	Rohde & Schwarz	SMB100A	109279	N/A
7	GPS Simulator +Antenna	TOJOIN	GNSS-5000A	E1-010-010119	N/A
8	Universal radio communication tester	Rohde&Schwarz	CMW500	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A
2	non-Shielded, Detachable 1.5m;
3	N/A
4	N/A
5	N/A
6	N/A
7	N/A
8	N/A

2 EMISSION TEST

2.1 CONDUCTED EMISSION MEASUREMENT

2.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

TEST STANDARD: FCC Part 15, Subpart B (Section: 15.107)

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

NOTE: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

2.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR3	101900	Feb. 26,19	Feb. 25, 20
EMC32 test software	Rohde&Schwarz	EMC32	NA	NA	NA
LISN network	Rohde&Schwarz	ENV216	101922	Feb. 26,19	Feb. 25, 20

NOTE: 1. The test was performed in CE shielded room.

2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

2.1.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

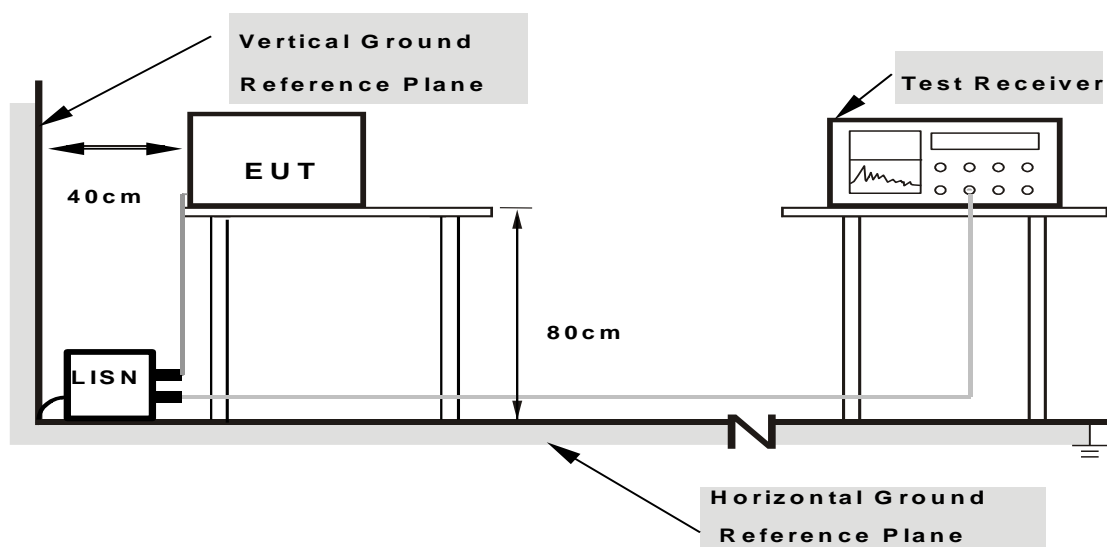
NOTE: All modes of operation were investigated and the worst-case emissions are reported.

2.1.4 DEVIATION FROM TEST STANDARD

No deviation.



2.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.

**2.Both of LISNs (AMN) are 80 cm from EUT and at least 80
from other units and other metal planes**

For the actual test configuration, please refer to the attached file (Test Setup Photo).

2.1.6 EUT OPERATING CONDITIONS

- Turned on the power and connected of all equipment.
- EUT was operated according to the use type described in the manufacturer's specifications or the user's manual.



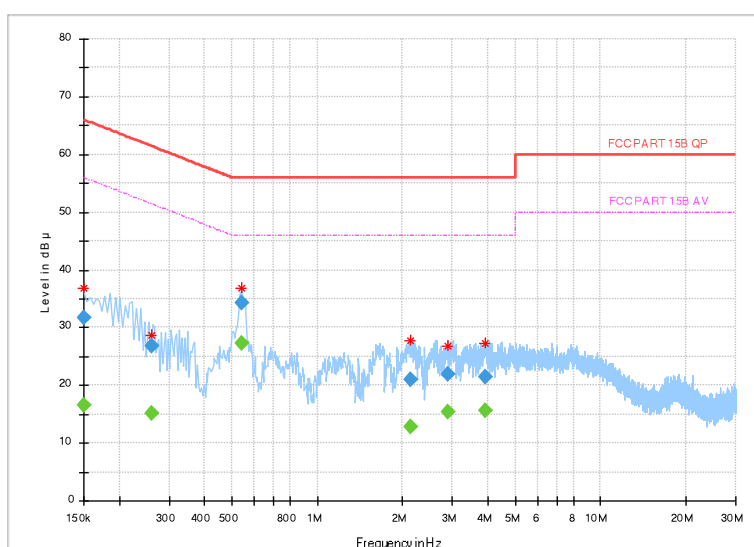
2.1.7 TEST RESULTS

TEST VOLTAGE	Input 120 Vac, 60 Hz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 52RH	TESTED BY	Jacky liu

Frequency (MHz)	QuasiPeak (dB μ V)	CAverage (dB μ V)	Limit (dB μ V)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	16.55	56.00	39.45	L1	ON	9.9
0.150000	31.63	---	66.00	34.37	L1	ON	9.9
0.260000	---	15.26	51.43	36.17	L1	ON	10.0
0.260000	26.74	---	61.43	34.69	L1	ON	10.0
0.540000	---	27.33	46.00	18.67	L1	ON	10.0
0.540000	34.27	---	56.00	21.73	L1	ON	10.0
2.140000	---	12.94	46.00	33.06	L1	ON	10.1
2.140000	21.10	---	56.00	34.90	L1	ON	10.1
2.884000	---	15.33	46.00	30.67	L1	ON	10.1
2.884000	22.03	---	56.00	33.97	L1	ON	10.1
3.932000	---	15.56	46.00	30.44	L1	ON	10.2
3.932000	21.50	---	56.00	34.50	L1	ON	10.2

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.

Full Spectrum

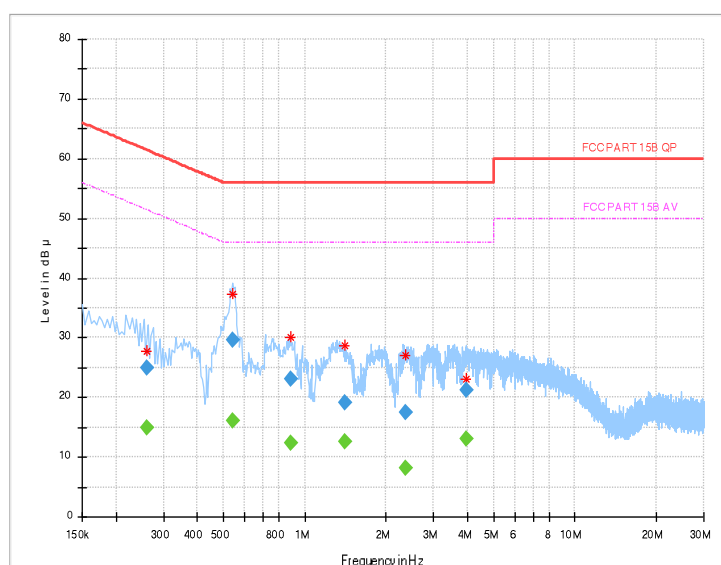


TEST VOLTAGE	Input 120 Vac, 60 Hz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
ENVIRONMENTAL CONDITIONS	25deg. C, 52RH	TESTED BY	Jacky liu

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.260000	---	14.89	51.43	36.54	N	ON	9.9
0.260000	24.85	---	61.43	36.58	N	ON	9.9
0.540000	---	16.12	46.00	29.88	N	ON	9.9
0.540000	29.63	---	56.00	26.37	N	ON	9.9
0.888000	---	12.48	46.00	33.52	N	ON	10.0
0.888000	23.20	---	56.00	32.80	N	ON	10.0
1.406000	---	12.51	46.00	33.49	N	ON	10.0
1.406000	19.19	---	56.00	36.81	N	ON	10.0
2.350000	---	8.20	46.00	37.80	N	ON	10.0
2.350000	17.52	---	56.00	38.48	N	ON	10.0
3.944000	---	13.07	46.00	32.93	N	ON	10.1
3.944000	21.32	---	56.00	34.68	N	ON	10.1

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.

Full Spectrum



2.2 RADIATED EMISSION MEASUREMENT

2.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

TEST STANDARD: FCC Part 15, Subpart B (Section: 15.109)

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

Radiated Emissions Limits at 3 meters (dB μ V/m)		
Frequencies (MHz)	FCC 15B / ICES-003, Class A	FCC 15B / ICES-003, Class B
30-88	49	40
88-216	53.5	43.5
216-960	56	46
960-1000	59.5	54
Above 1000	Avg: 59.5 Peak: 79.5	Avg: 54 Peak: 74

Frequency Range (For unintentional radiators)

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705-108	1000
108-500	2000
500-1000	5000
Above 1000	5 th harmonic of the highest frequency or 40GHz, whichever is lower

- NOTE:**
1. The lower limit shall apply at the transition frequencies.
 2. Emission level (dB μ V/m) = 20 log Emission level (uV/m).
 3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
 4. QP detector shall be applied if not specified.

2.2.2 TEST INSTRUMENTS

Frequency range below 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	Feb. 26,19	Feb. 25,20
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Feb. 26,19	Feb. 25,20
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 26,19	Feb. 25,20
Signal Pre-Amplifier	EMSI	EMC 9135	980249	Jun. 24,19	Jun. 23,20

Frequency range above 1GHz

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	Feb. 26,19	Feb. 25,20
Horn Antenna	ETS-LINDGREN	3117	00168728	Feb. 26,19	Feb. 25,20
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170242	May 01,19	May 02,20
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 26,19	Feb. 25, 20
Signal Pre-Amplifier (1~18GHz)	EMSI	EMC 012645B	980257	Jun. 24,19	Jun. 23,20
Signal Pre-Amplifier (18GHz-40GHz)	EMSI	EMC 184045	980102	Dec. 27,18	Dec. 26,19

- NOTE:**
1. The test was performed in 3m chamber.
 2. The calibration interval of the above test instruments is 12 months or 24 months and the calibrations are traceable to CEPREI/CHINA, GREGT/CHINA and NIM/CHINA.
 3. The FCC Site Registration No. is 525120; The Designation No. is CN1171.

2.2.3 TEST PROCEDURE

<Frequency Range below 1GHz>

The basic test procedure was in accordance with ANSI C63.4:2014 (section 12).

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from 1 meter to 4 meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1GHz.

NOTE:

1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. $\text{Emission level(dBuV/m)} = \text{Raw Value(dBuV)} + \text{Correction Factor(dB/m)}$
3. $\text{Correction Factor(dB/m)} = \text{Antenna Factor (dB/m)} + \text{Cable Factor (dB)}$ (if the raw value not contains the amplifier);
4. $\text{Correction Factor(dB/m)} = \text{Antenna Factor (dB/m)} + \text{Cable Factor (dB)} - \text{Amplifier Gain(dB)}$ (if the raw value contains the amplifier).
5. $\text{Margin value} = \text{Emission level} - \text{Limit value}$.

<Frequency Range above 1GHz>

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. The bore sight should be used during the test above 1GHz.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz

NOTE:

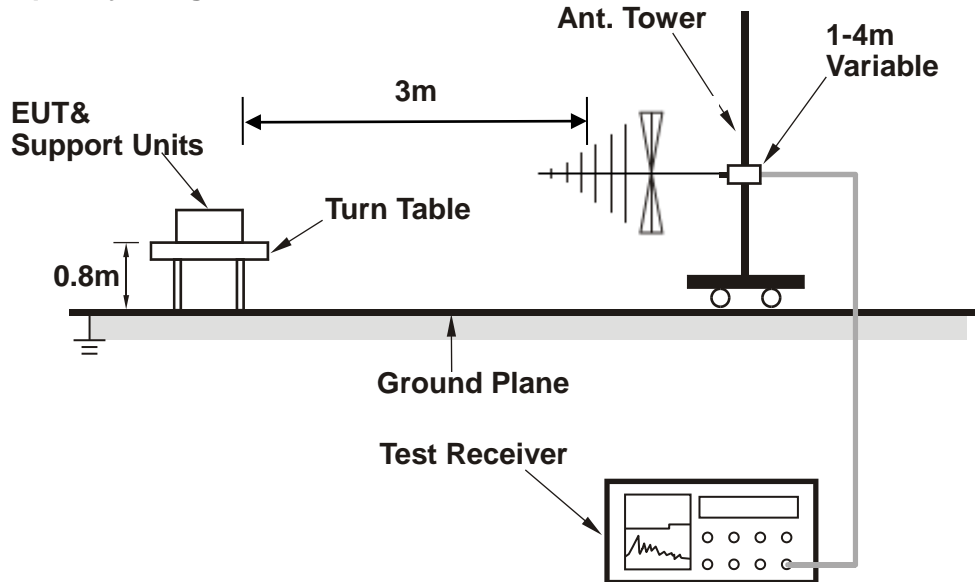
1. The resolution bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth is 1MHz and video bandwidth of test receiver/spectrum analyzer is 3MHz for Peak detection at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth of test receiver/spectrum analyzer is 1Hz for Average detection (AV) at frequency above 1GHz.
3. For measurement of frequency above 1000 MHz, the EUT was set 3 meters away from the receiver antenna.
4. $\text{Emission level(dBuV/m)} = \text{Raw Value(dBuV)} + \text{Correction Factor(dB/m)}$
5. $\text{Correction Factor(dB/m)} = \text{Antenna Factor (dB/m)} + \text{Cable Factor (dB)}$ (if the raw value not contains the amplifier);
6. $\text{Correction Factor(dB/m)} = \text{Antenna Factor (dB/m)} + \text{Cable Factor (dB)} - \text{Amplifier Gain(dB)}$ (if the raw value contains the amplifier)
7. $\text{Margin value} = \text{Emission level} - \text{Limit value}$.

2.2.4 DEVIATION FROM TEST STANDARD

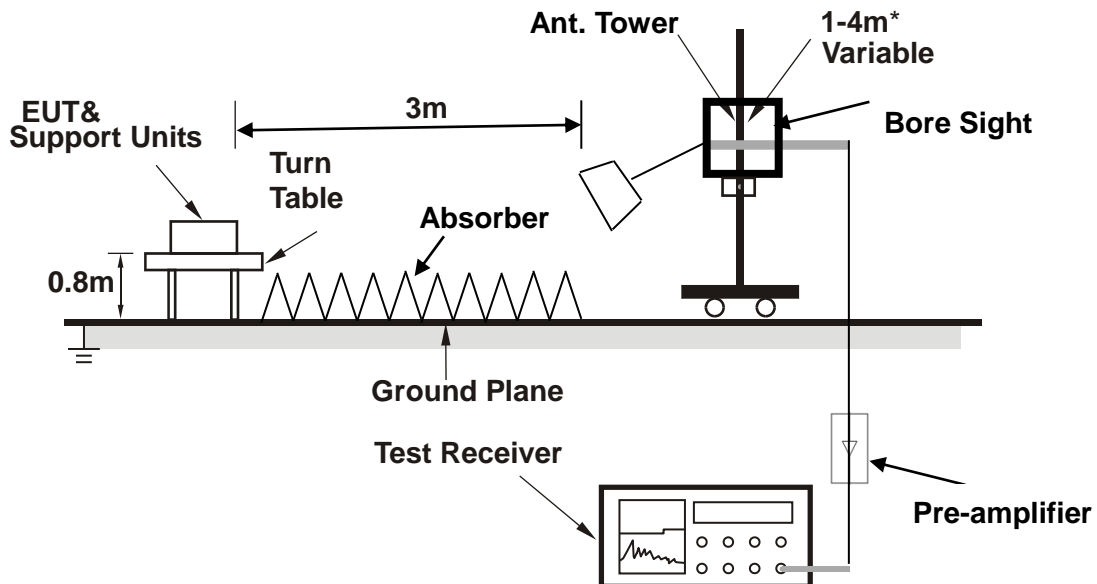
No deviation.

2.2.5 TEST SETUP

<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

depends on the EUT height and the antenna 3dB bandwidth both, refer to section 7.3 of CISPR 16-2-3.



**BUREAU
VERITAS**

Test Report No.: FV190712W002

2.2.6 EUT OPERATING CONDITIONS

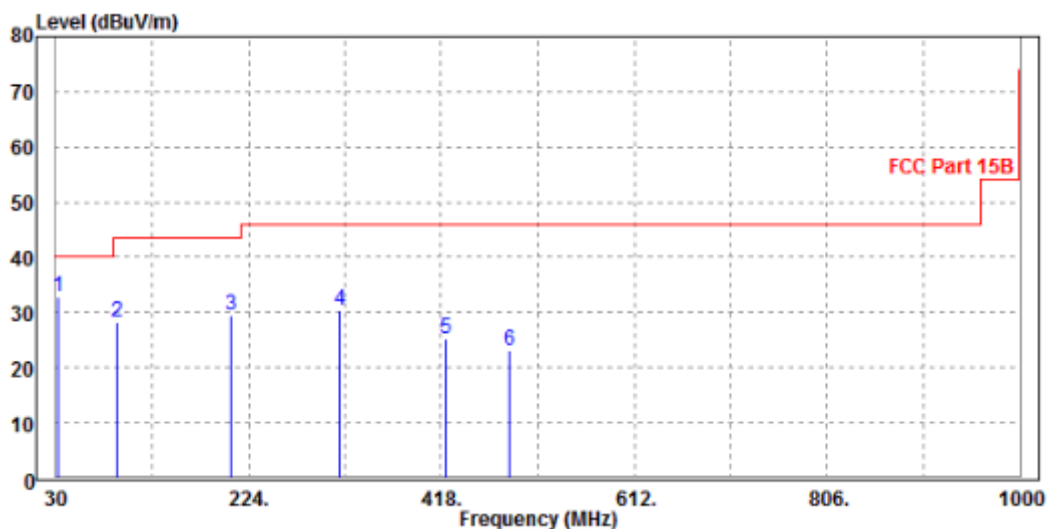
Same as item 2.1.6.

2.2.7 TEST RESULTS

TEST VOLTAGE	Input 120 Vac, 60 Hz	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120 kHz
TESTED BY	Tony		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
31.94	32.9	53.38	40	-7.1	16.14	0.8	37.42	100	122	QP
91.11	28.17	55.4	43.5	-15.33	8.73	1.28	37.24	100	241	QP
205.57	29.37	53.04	43.5	-14.13	11.07	1.82	36.56	100	254	QP
315.18	30.42	50.24	46	-15.58	14.67	2.27	36.76	100	129	QP
422.85	25.37	41.92	46	-20.63	17.62	2.7	36.87	100	213	QP
486.87	23.27	38.79	46	-22.73	18.52	2.94	36.98	100	297	QP

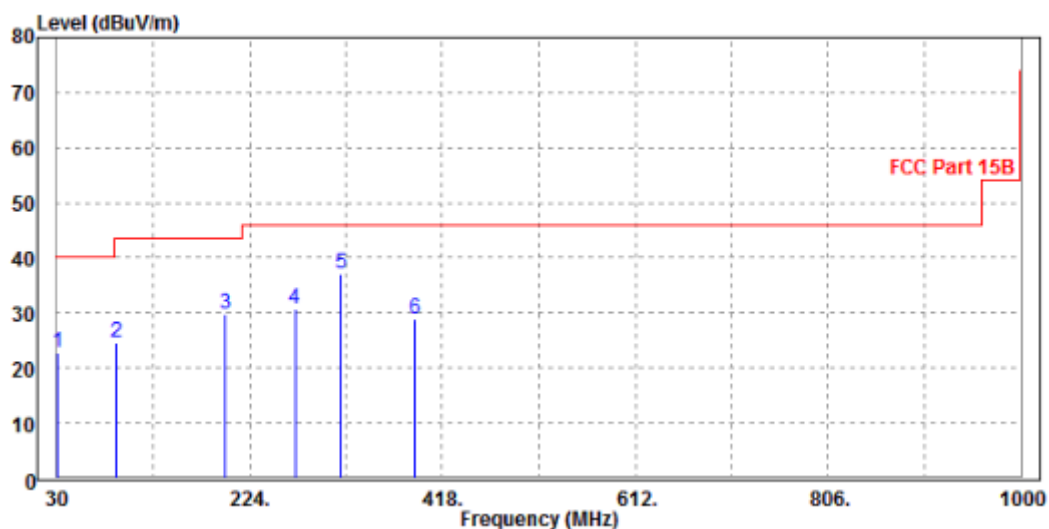
- REMARKS:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Negative sign (-) in the margin column signify levels below the limit.
 3. Frequency range scanned: 30MHz to 1000MHz.
 4. Only emissions significantly above equipment noise floor are reported.



TEST VOLTAGE	Input 120 Vac, 60 Hz	FREQUENCY RANGE	30-1000 MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Quasi-Peak, 120 kHz
TESTED BY	Tony		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
30.97	22.88	42.65	40	-17.12	16.8	0.79	37.36	100	164	QP
90.14	24.52	51.97	43.5	-18.98	8.52	1.28	37.25	100	271	QP
199.75	29.79	53.76	43.5	-13.71	10.79	1.79	36.55	100	59	QP
269.59	30.58	51.73	46	-15.42	13.43	2.11	36.69	100	155	QP
315.18	37.08	57	46	-8.92	14.57	2.27	36.76	100	98	QP
390.84	29.01	46.33	46	-16.99	16.92	2.58	36.82	100	312	QP

- REMARKS:**
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Negative sign (-) in the margin column signify levels below the limit.
 3. Frequency range scanned: 30MHz to 1000MHz.
 4. Only emissions significantly above equipment noise floor are reported.

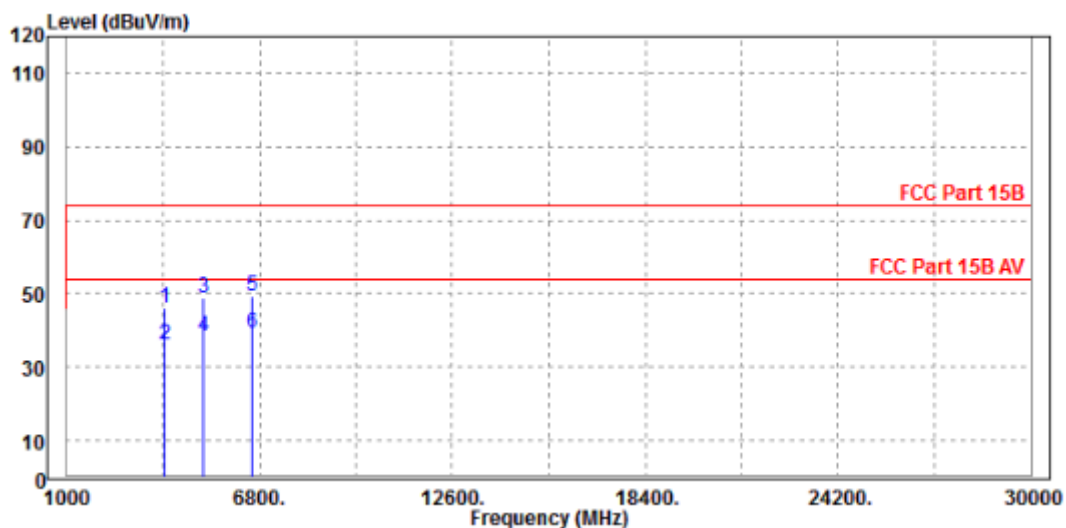


TEST VOLTAGE	Input 120 Vac, 60 Hz	FREQUENCY RANGE	1-18 GHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Peak/Average, 1 MHz
TESTED BY	Tony		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
3975	46.1	50.82	74	-27.9	36.15	5.51	46.38	200	189	Peak
3975	36.16	40.88	54	-17.84	36.15	5.51	46.38	200	189	Average
5131	48.72	51.38	74	-25.28	36.28	7.42	46.36	200	225	Peak
5131	38.39	41.05	54	-15.61	36.28	7.42	46.36	200	225	Average
6559	49.39	50.74	74	-24.61	37.24	7.36	45.95	200	308	Peak
6559	39.03	40.38	54	-14.97	37.24	7.36	45.95	200	308	Average

REMARKS:

1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
2. Negative sign (-) in the margin column signify levels below the limit.
3. Frequency range scanned: 1GHz to 30GHz.
4. Only emissions significantly above equipment noise floor are reported.

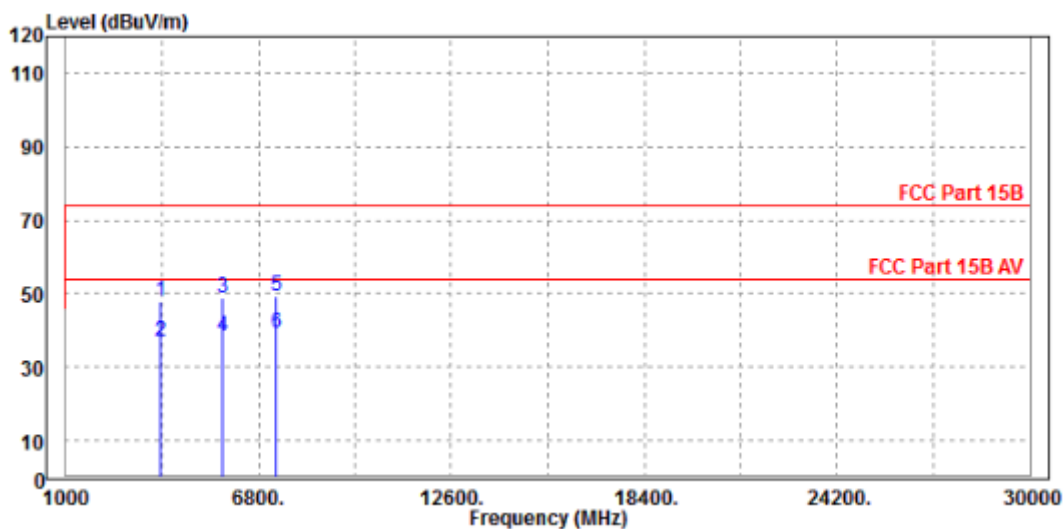


TEST VOLTAGE	Input 120 Vac, 60 Hz	FREQUENCY RANGE	1-18 GHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70 %RH	DETECTOR FUNCTION & RESOLUTION BANDWIDTH	Peak/Average, 1 MHz
TESTED BY	Tony		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
3839	47.85	51.79	74	-26.15	36.9	5.54	46.38	100	88	Peak
3839	37.09	41.03	54	-16.91	36.9	5.54	46.38	100	88	Average
5726	48.74	50.81	74	-25.26	36.39	7.73	46.19	100	171	Peak
5726	38.2	40.27	54	-15.8	36.39	7.73	46.19	100	171	Average
7307	49.48	49.16	74	-24.52	37.32	8.73	45.73	100	279	Peak
7307	39.23	38.91	54	-14.77	37.32	8.73	45.73	100	279	Average

REMARKS:

1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
2. Negative sign (-) in the margin column signify levels below the limit.
3. Frequency range scanned: 1GHz to 30GHz.
4. Only emissions significantly above equipment noise floor are reported.





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3 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications were made to the EUT by the lab during the test.

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