



# FCC PART 15C TEST REPORT

For

## Fujian Morefun Electronic Technology Co., Ltd.

A-602, No.10 Building, HaiXi Innovation Area, High-Tech Zone, Fuzhou, Fujian, China

**FCC ID: 2AQRE-MF919**

<b>Report Type:</b> Original Report	<b>Product Name:</b> MF919 Android POS Terminal
<b>Report Number:</b>	RXM180726051-00C
<b>Report Date:</b>	2020-08-31
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## GENERAL INFORMATION

### Product Description for Equipment Under Test (EUT)

	<b>EUT Name:</b>	MF919 Android POS Terminal
	<b>EUT Model:</b>	MF919
	<b>Operation Frequency:</b>	13.56 MHz
	<b>Modulation Type:</b>	ASK
	<b>Rated Input Voltage:</b>	DC 7.4V from battery or DC 5V from Adapter
<b>Adapter Information</b>	<b>Model:</b>	JYX0502000EU
	<b>Input:</b>	100-240V~50/60Hz 0.3A Max
	<b>Output:</b>	DC 5V 2000mA
	<b>Serial Number:</b>	RXM180726051-RF-S1
	<b>EUT Received Date:</b>	2018.07.30
	<b>EUT Received Status:</b>	Good

### Objective

This Type approval report is prepared on behalf of *Fujian Morefun Electronic Technology Co., Ltd.* in accordance with Part 2, Subpart J, and Part 15, Subparts A and C of the Federal Communications Commission's rules.

The objective is to determine the compliance of the EUT with FCC rules, sec 15.203, 15.205, 15.207, 15.209, 15.215 and 15.225.

### Related Submittal(s)/Grant(s)

FCC Part 22H, 24E,27 PCB submissions with FCC ID: 2AQRE-MF919.  
FCC Part 15C DSS, DTS submissions with FCC ID: 2AQRE-MF919.

### Test Methodology

All measurements detailed in this Test Report were performed in accordance with ANSI C63.10-2013 "American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices".

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Dongguan). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

## Measurement Uncertainty

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
radiated Emissions	9kHz~30MHz: 4.12dB 30M~200MHz: 4.55 dB, 200M~1GHz: 5.92 dB
Temperature	±1℃
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	3.12 dB (150 kHz to 30 MHz)

*Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.*

## Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 897218, the FCC Designation No. : CN1220.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062D.

## Declarations

BACL is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “△”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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## SYSTEM TEST CONFIGURATION

### Justification

The system was configured for testing in a test mode

The device operates in 13.56 MHz(NFC).

### EUT Exercise Software

No software used in test.

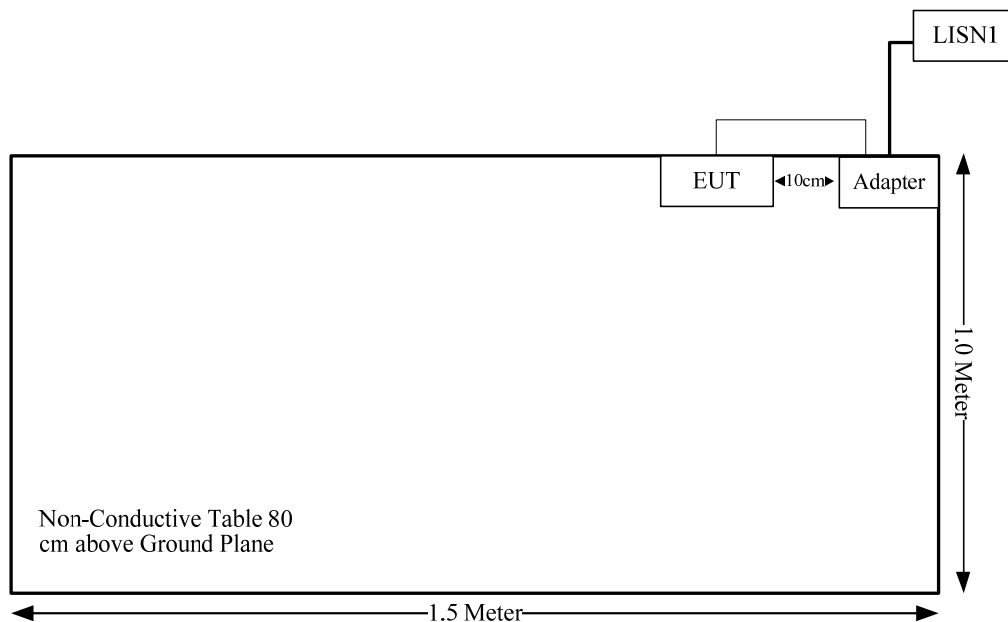
### Equipment Modifications

No modification was made to the EUT.

### Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	Yes	No	0.8	Adapter	EUT

### Block Diagram of Test Setup



**SUMMARY OF TEST RESULTS**

<b>FCC Rules</b>	<b>Description of Test</b>	<b>Result</b>
§15.203	Antenna Requirement	Compliance
§15.207	AC Line Conducted Emission	Compliance
§15.225 §15.209 §15.205	Radiated Emission Test	Compliance
§15.225(e)	Frequency Stability	Compliance
§15.215(c)	20 dB Emission Bandwidth	Compliance

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## **FCC§15.203 - ANTENNA REQUIREMENT**

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### **Applicable Standard**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

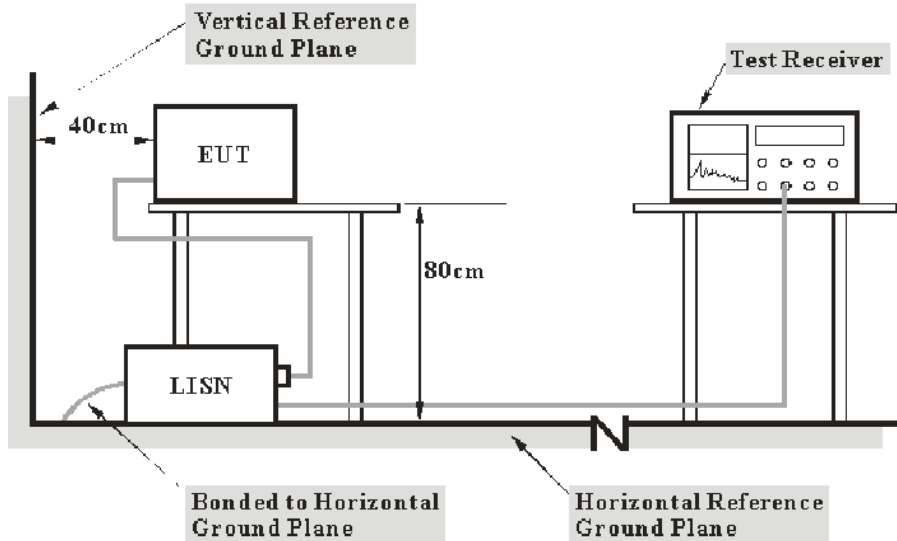
### **Antenna Connected Construction**

The EUT has an integral antenna arrangement for 13.56MHz, which was permanently attached and fulfill the requirement of this section. Please refer to the EUT photos.

**Result:** Compliance.

**FCC §15.207 – AC LINE CONDUCTED EMISSION**

**EUT Setup**



- Note: 1. Support units were connected to second LISN.  
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

The adapter was connected to the main LISN with an AC 120V/60Hz power source.

**EMI Test Receiver Setup**

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz



### Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Unknown	Coaxial Cable	C-NJNJ-50	C-0200-01	2019-09-05	2020-09-05
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A
R&S	Two-line V-network	ENV 216	101614	2019-09-12	2020-09-12
R&S	EMI Test Receiver	ESCI	101121	2020-05-09	2021-05-09

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

### Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase (“hot”) line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

According FCC publication number 174176, for a device with a permanent antenna operating at or below 30 MHz, the measurements done with a suitable dummy load, in lieu of the permanent antenna under the following conditions: (1) perform the AC line conducted tests with the permanent antenna to determine compliance with the Section 15.207 limits outside the transmitter's fundamental emission band; (2) retest with a dummy load in lieu of the permanent antenna to determine compliance with the Section 15.207 limits within the transmitter's fundamental emission band.

### Corrected Amplitude & Margin Calculation

The basic equation is as follows:

$$V_C = V_R + A_C + VDF$$

Herein,

$V_C$ : corrected voltage amplitude

$V_R$ : reading voltage amplitude

$A_c$ : attenuation caused by cable loss

VDF: voltage division factor of AMN or ISN

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

### Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

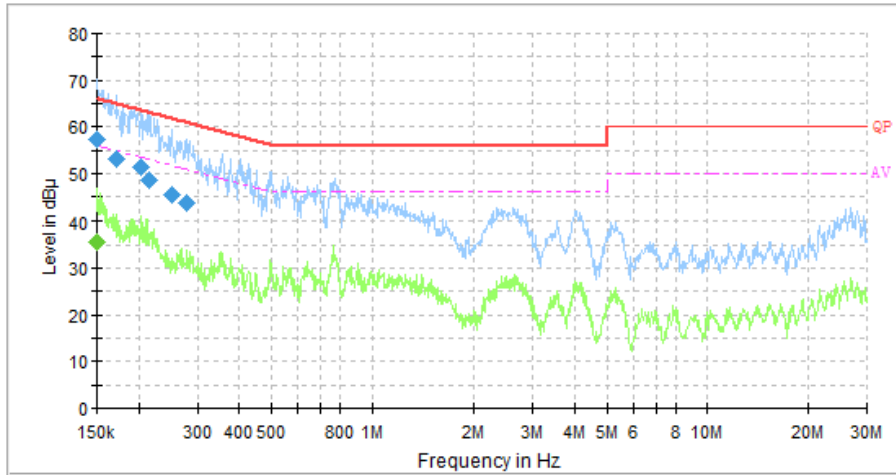
### Test Data

#### Environmental Conditions

<b>Temperature:</b>	27.3 °C
<b>Relative Humidity:</b>	67 %
<b>ATM Pressure:</b>	100.8 kPa
<b>Tester:</b>	Leo Long
<b>Test Date:</b>	2020-06-05

**Test mode: Transmitting**

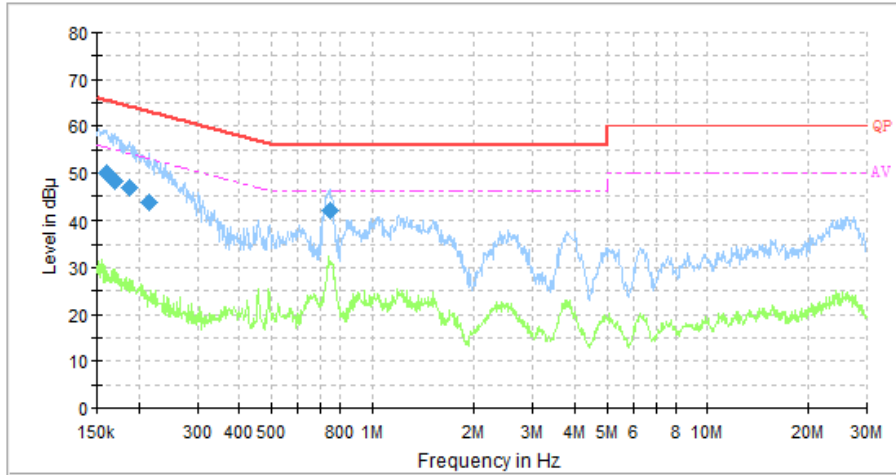
**AC 120V, 60 Hz, Line:**



**Final Result**

Frequency (MHz)	QuasiPeak (dB $\mu$ V)	Average (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.150000	---	35.71	56.00	20.29	9.000	L1	9.7
0.150000	57.17	---	66.00	8.83	9.000	L1	9.7
0.171623	53.18	---	64.88	11.70	9.000	L1	9.7
0.203339	51.32	---	63.47	12.15	9.000	L1	9.7
0.215881	48.40	---	62.98	14.58	9.000	L1	9.7
0.250724	45.39	---	61.73	16.34	9.000	L1	9.7
0.279801	43.77	---	60.82	17.05	9.000	L1	9.7

**AC120 V, 60 Hz, Neutral:**



**Final Result**

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.160048	50.00	---	65.46	15.46	9.000	N	9.7
0.169919	48.28	---	64.96	16.68	9.000	N	9.7
0.186809	46.76	---	64.18	17.42	9.000	N	9.7
0.214807	43.61	---	63.02	19.41	9.000	N	9.7
0.747417	41.75	---	56.00	14.25	9.000	N	9.6

## **FCC§15.225, §15.205 & §15.209 - RADIATED EMISSIONS TEST**

### **Applicable Standard**

FCC Part 15.205, 15.209, 15.225

- (a) The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
- (b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- (c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- (d) The field strength of any emissions appearing outside of the 13.110–14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

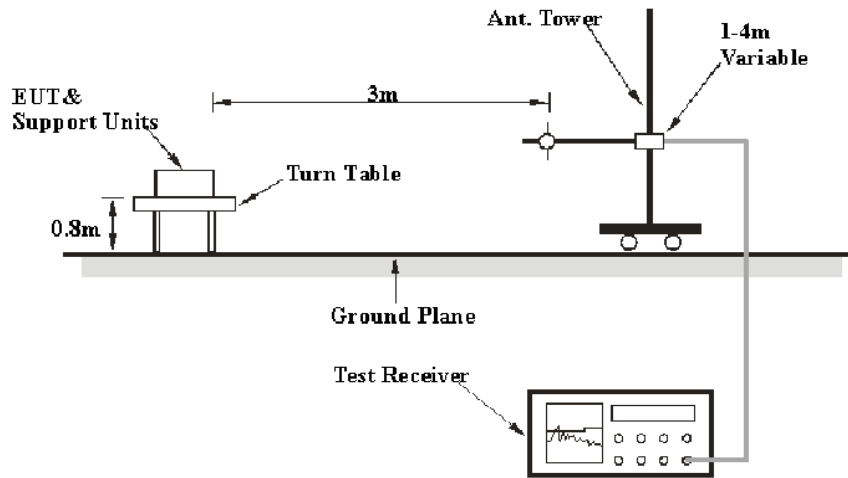
As per FCC Part 15.209

(a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

<b>Frequency (MHz)</b>	<b>Field strength (microvolts/meter)</b>	<b>Measurement distance (meters)</b>
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

\*\*Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.

**EUT Setup**



The radiated emission tests were performed in the 3-meter chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC Part Subpart C limits.

The spacing between the peripherals was 10 cm.

**EMI Test Receiver Setup**

The system was investigated from 9 kHz to 1 GHz.

During the radiated emission test, the EMI test Receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	Measurement
9 kHz – 150 kHz	200 Hz	1 kHz	QP
150 kHz – 30 MHz	9 kHz	30 kHz	QP
30 MHz – 1000 MHz	120 kHz	300 kHz	QP

If the maximized peak measured value complies with the limit, then it is unnecessary to perform an QP/Average measurement

**Corrected Amplitude & Margin Calculation**

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corr. Ampl.}$$

### Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
EMCO	Passive Loop	6512	9706-1206	2020-03-05	2023-03-04
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2019-09-05	2020-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2019-09-05	2020-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2020-05-06	2021-05-06
HP	Amplifier	8447D	2727A05902	2019-09-05	2020-09-05
R&S	EMI Test Receiver	ESR3	102453	2019-09-12	2020-09-12
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A
Sunol Sciences	Antenna	JB3	A060611-1	2017-11-10	2020-11-10

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

### Test Results Summary

According to the data in the following table, the EUT complied with the FCC Part 15.209&15.225.

### Test Data

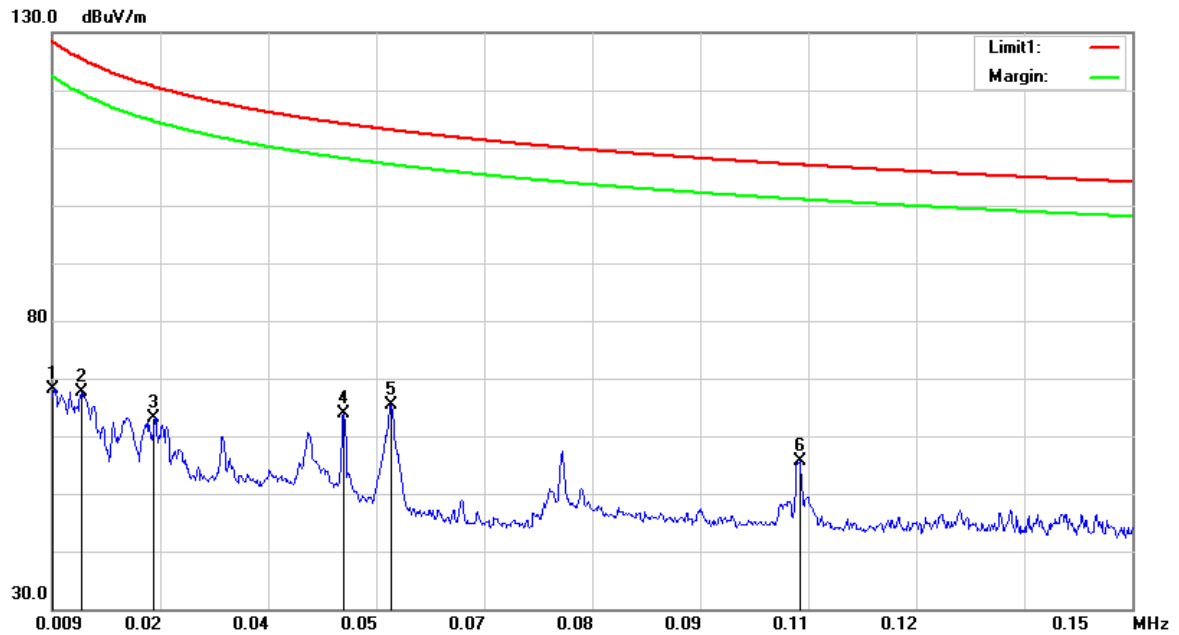
#### Environmental Conditions

Test Items	Radiation Below 1GHz
Temperature:	27.8 °C
Relative Humidity:	43%
ATM Pressure:	100.2kPa
Tester:	Joker Chen
Test Date:	2020-07-15

Test mode: Transmitting

1) 9 kHz~150kHz:

**Horizontal:**

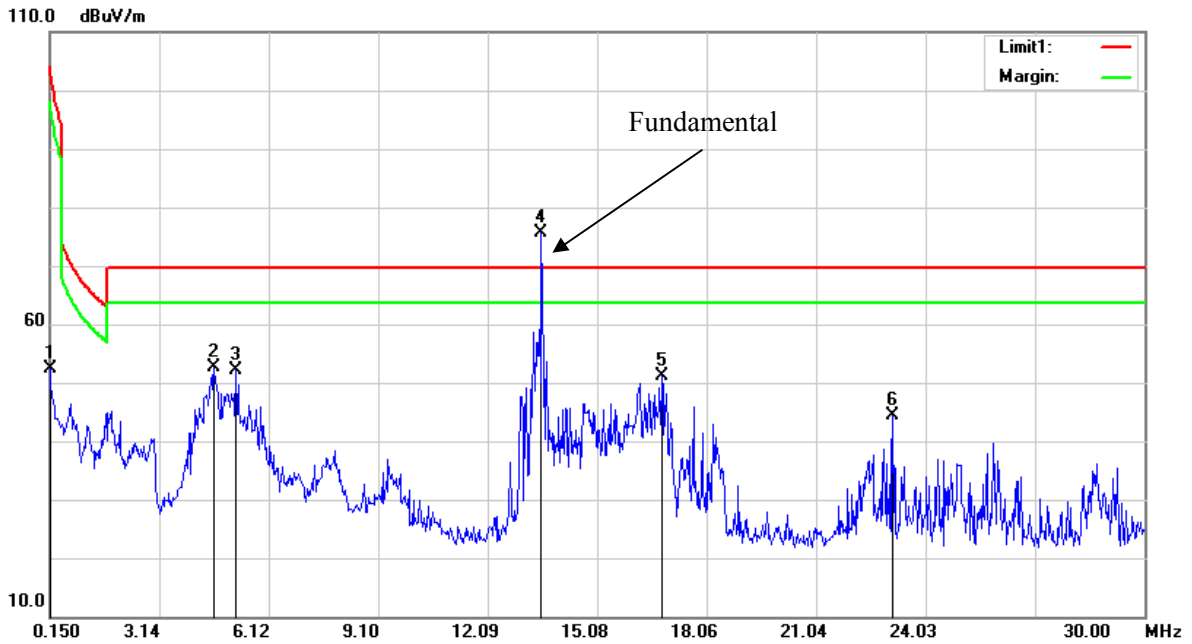


Frequency (MHz)	Reading (dBμV)	Detector	Corrected (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
0.0091	-20.55	peak	88.61	68.06	128.42	60.36
0.0128	-18.57	peak	86.29	67.72	125.46	57.74
0.0223	-16.33	peak	79.53	63.20	120.64	57.44
0.0471	-10.32	peak	74.09	63.77	114.14	50.37
0.0533	-7.51	peak	72.98	65.47	113.07	47.60
0.1066	-10.78	peak	66.34	55.56	107.05	51.49



150kHz~30MHz:

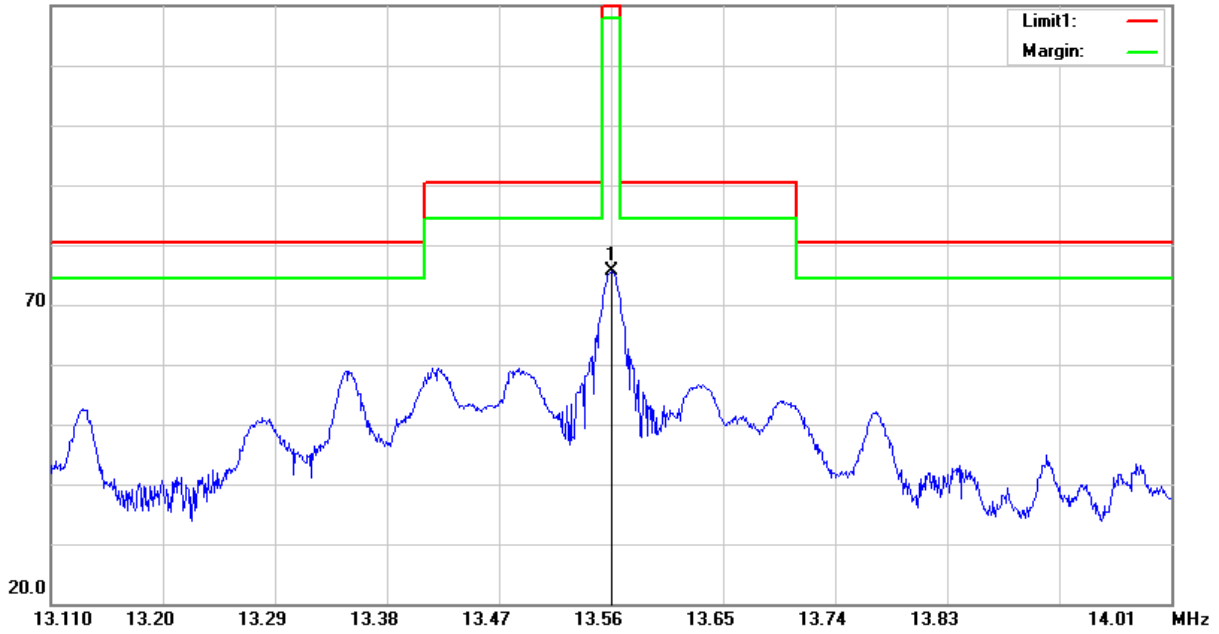
Horizontal:



Frequency (MHz)	Reading (dBμV)	Detector	Corrected (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
0.1500	13.93	peak	38.53	52.46	104.08	51.62
4.6275	41.55	peak	11.02	52.57	69.54	16.97
5.2244	41.66	peak	10.53	52.19	69.54	17.35
16.8362	42.09	peak	9.14	51.23	69.54	18.31
23.1342	35.57	peak	8.85	44.42	69.54	25.12

**Emission Mask:**

120.0 dB $\mu$ V/m

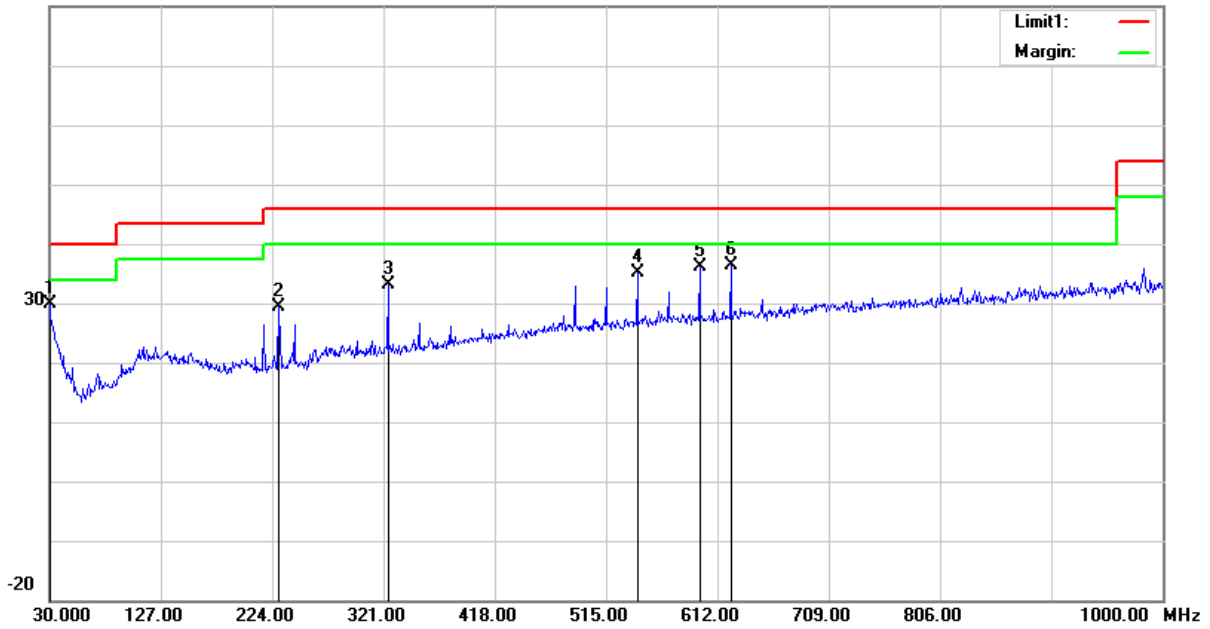


Frequency (MHz)	Reading (dB $\mu$ V)	Detector	Corrected (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
13.5600	66.23	peak	9.31	75.54	124.00	48.46

30MHz-1GHz

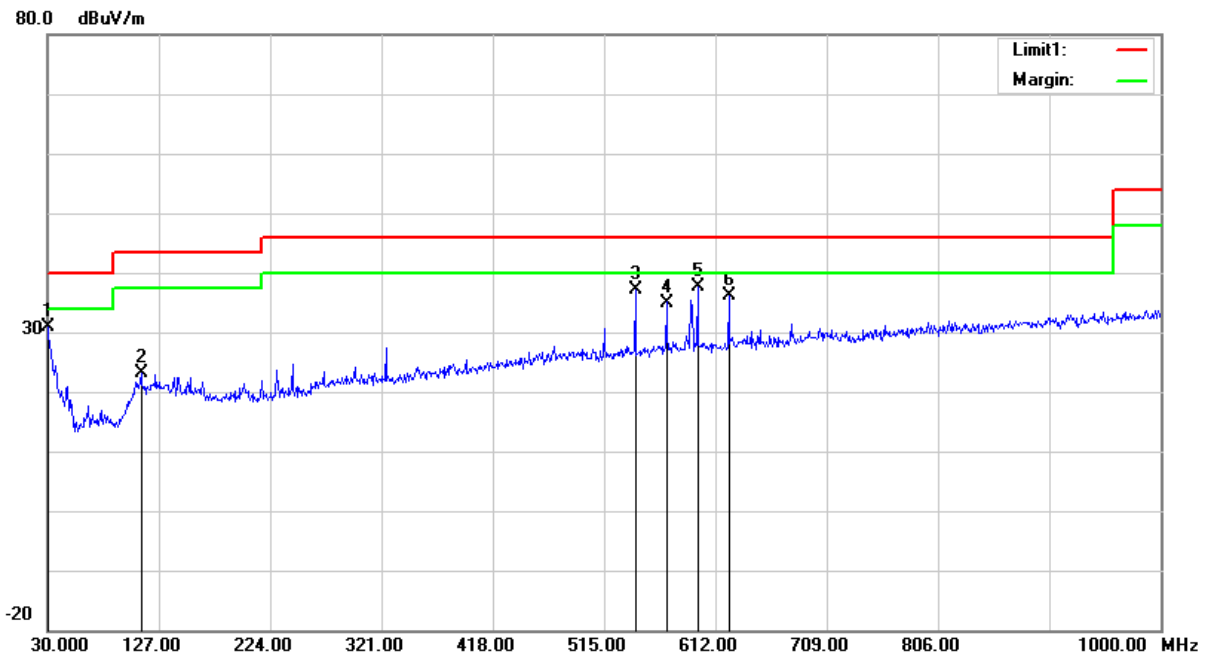
Horizontal:

80.0 dB $\mu$ V/m



Frequency (MHz)	Reading (dB $\mu$ V)	Detector	Corrected (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
30.0000	28.48	peak	1.46	29.94	40.00	10.06
229.8200	35.70	peak	-6.38	29.32	46.00	16.68
324.8800	36.36	peak	-3.34	33.02	46.00	12.98
542.1600	35.11	peak	0.09	35.20	46.00	10.80
596.4800	35.38	peak	0.69	36.07	46.00	9.93
623.6400	34.89	peak	1.37	36.26	46.00	9.74

**Vertical:**



Frequency (MHz)	Reading (dBμV)	Detector	Corrected (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
30.0000	29.35	peak	1.46	30.81	40.00	9.19
111.4800	29.35	peak	-6.22	23.13	43.50	20.37
542.1600	37.12	peak	0.09	37.21	46.00	8.79
569.3200	34.25	peak	0.75	35.00	46.00	11.00
596.4800	37.03	peak	0.69	37.72	46.00	8.28
623.6400	34.87	peak	1.37	36.24	46.00	9.76

## FCC§15.225(e) - FREQUENCY STABILITY

### Applicable Standard

The frequency tolerance of the carrier signal shall be maintained within  $\pm 0.01\%$  of the operating frequency over a temperature variation of  $-20$  degrees to  $+50$  degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

### Test Procedure

Frequency Stability vs. Temperature: The adapter under test was connected to an external AC power.

The EUT was placed inside the temperature chamber.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the Spectrum Analyzer.

Frequency Stability vs. Voltage: An external variable AC or DC power supply Source connected to the EUT or EUT adapter. Test the frequency output in the extremity voltage.

### Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESR3	102453	2019-09-12	2020-09-12
HP	Amplifier	8447D	2727A05902	2019-09-05	2020-09-05
EMCO	Passive Loop	6512	9706-1206	2020-03-05	2023-03-04
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2019-09-05	2020-09-05
ESPEC	Constant temperature and humidity Tester	ESX-4CA	018 463	2020-03-10	2021-03-09
UNI-T	Multimeter	UT39A	M130199938	2019-07-24	2020-07-24
Pro instrument	DC Power Supply	pps3300	N/A	N/A	N/A

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

### Test Data

#### Environmental Conditions

Temperature:	27.8 °C
Relative Humidity:	43%
ATM Pressure:	100.2kPa
Tester:	Joker Chen
Test Date:	2020-07-15

**Test Result:** Compliance.

<b>f<sub>0</sub> = 13.56 MHz</b>				
<b>Temperature</b>	<b>Voltage</b>	<b>Measured frequency</b>	<b>Frequency Error</b>	<b>Limit</b>
<b>°C</b>	<b>V<sub>DC</sub></b>	<b>MHz</b>	<b>Hz</b>	<b>Hz</b>
-20	7.4	13.560283	283	±1356
-10		13.560312	312	±1356
0		13.560341	341	±1356
10		13.560389	389	±1356
20		13.560276	276	±1356
25		13.560289	289	±1356
30		13.560308	308	±1356
40		13.560276	276	±1356
50		13.560301	301	±1356
25		7.0	13.560288	288
25	8.4	13.560286	286	±1356

Note: Operation voltage range declared by manufacturer.

## **FCC §15.215(c) – 20 dB EMISSION BANDWIDTH**

### **Applicable Standard**

Per FCC §15.215 (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §15.217 through § 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

### **Test Procedure**

Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.

### **Test Equipment List and Details**

<b>Manufacturer</b>	<b>Description</b>	<b>Model</b>	<b>Serial Number</b>	<b>Calibration Date</b>	<b>Calibration Due Date</b>
R&S	EMI Test Receiver	ESR3	102453	2019-09-12	2020-09-12
HP	Amplifier	8447D	2727A05902	2019-09-05	2020-09-05
EMCO	Passive Loop	6512	9706-1206	2020-03-05	2023-03-04
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2019-09-05	2020-09-05

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

### **Test Data**

#### **Environmental Conditions**

<b>Temperature:</b>	27.8 °C
<b>Relative Humidity:</b>	43%
<b>ATM Pressure:</b>	100.2kPa
<b>Tester:</b>	Joker Chen
<b>Test Date:</b>	2020-07-15

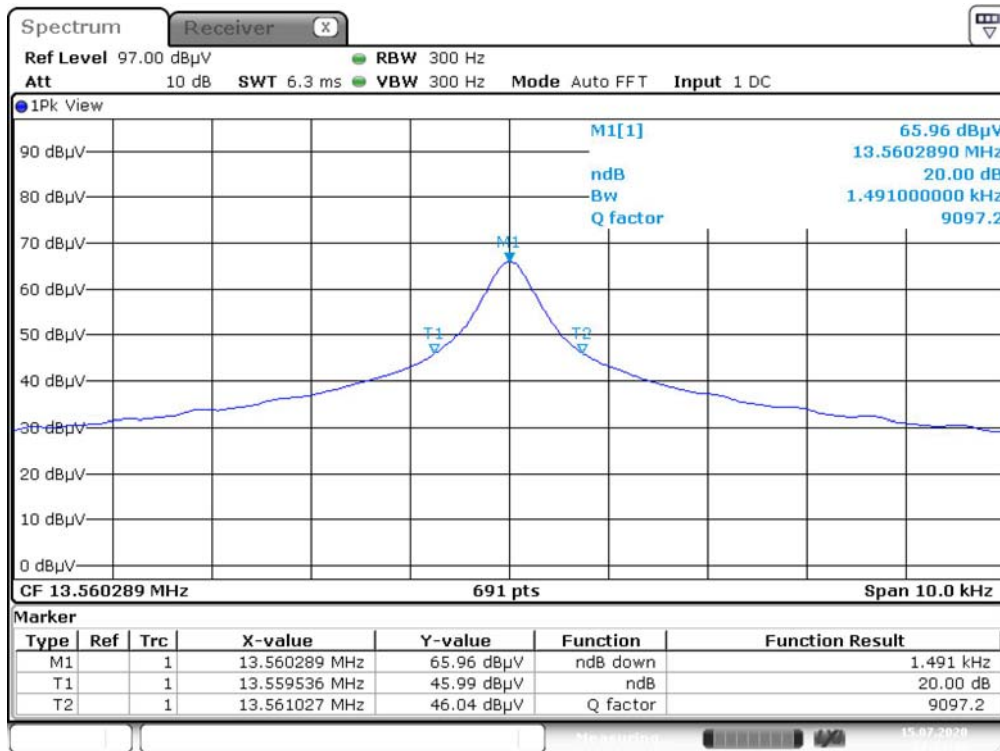
Test Mode: Transmitting

Test Result: Compliance.

Please refer to following tables and plots

Test Frequency (MHz)	20 dB Bandwidth (kHz)
13.56	1.491

**20 dB Emission Bandwidth**



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\*\*\*\*\* END OF REPORT \*\*\*\*\*