



# FCC PART 15C TEST REPORT

For

## Hytera Communications Corporation Limited

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**FCC ID:YAMPNC380B9**

<b>Report Type:</b> Original Report	<b>Product Type:</b> PoC Radio
<b>Report Number:</b>	RDG200109003-00C
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## GENERAL INFORMATION

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

<b>EUT Name:</b>		PoC Radio
<b>EUT Model:</b>		PNC380
<b>Operation Frequency:</b>		13.56 MHz
<b>Modulation Type:</b>		ASK
<b>Adapter Information</b>	<b>Model:</b>	S010WV0500200
	<b>Input:</b>	100-240V~50/60Hz 0.4A
	<b>Output:</b>	DC5V; 2000mA
<b>Rated Input Voltage:</b>		DC 3.85V from battery or DC 5V charging from adapter
<b>Serial Number:</b>		RDG200109003-RF-S3
<b>EUT Received Date:</b>		2020.01.09

### Objective

This type approval report is prepared on behalf of *Hytera Communications Corporation Limited* 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 and 15.225.

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

FCC Part 22H, 24E,27,90 PCF submissions with FCC ID: YAMPNC380B9.

FCC Part 15C DSS submissions with FCC ID: YAMPNC380B9.

FCC Part 15C DTS submissions with FCC ID: YAMPNC380B9.

FCC Part 15C NII submissions with FCC ID: YAMPNC380B9.

### 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 °C
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)

## 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 lab has been recognized as the FCC accredited lab 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 lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

## 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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This report may contain data that are not covered by the accreditation scope and shall be marked with an asterisk “★”.

## SYSTEM TEST CONFIGURATION

### Justification

The system was configured for testing in a test mode.

### EUT Exercise Software

No software used in test.

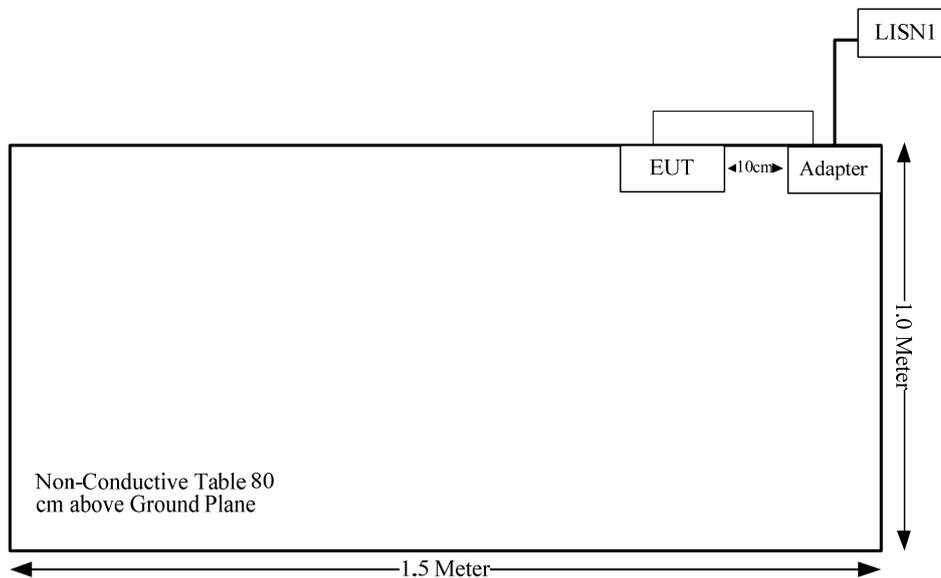
### Equipment Modifications

No modification was made to the EUT.

### Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From	To
USB Cable	Yes	No	1	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 Bandwidth	Compliance

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

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### **Applicable Standard**

According to § 15.203, 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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.
- c. Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

### **Antenna Connected Construction**

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

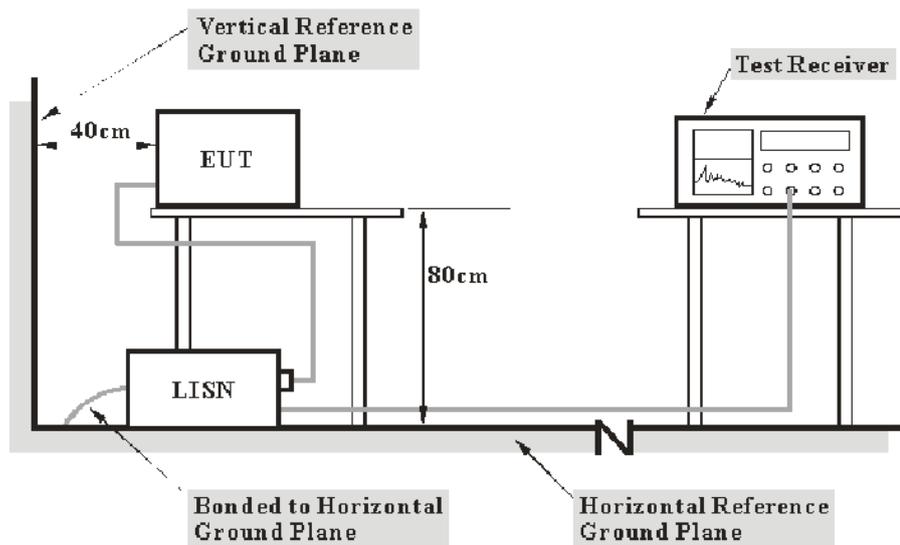
**Result:** Compliance.

## FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

### Applicable Standard

FCC§15.207(a)

### 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	2019-05-09	2020-05-09

\* **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.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

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,RSS-Gen.

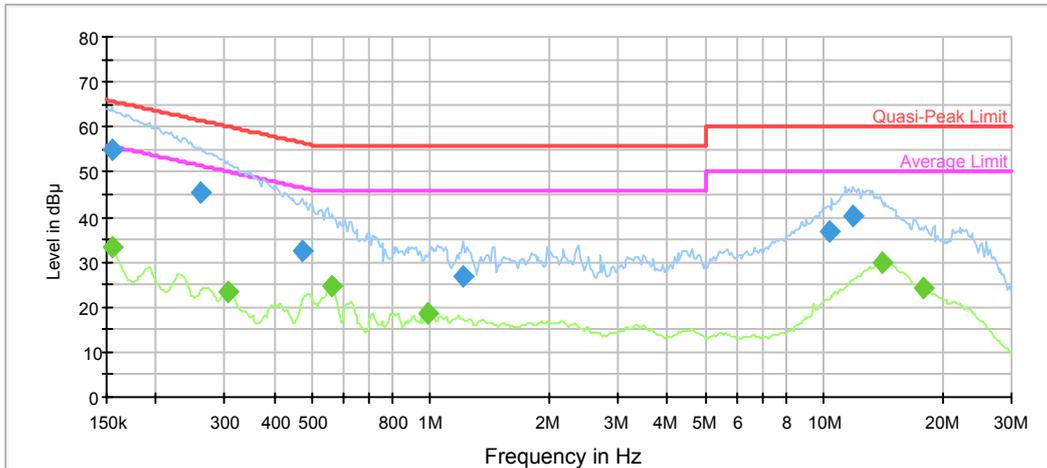
## Test Data

### Environmental Conditions

<b>Temperature:</b>	18.3 °C
<b>Relative Humidity:</b>	59 %
<b>ATM Pressure:</b>	102.1 kPa
<b>Tester:</b>	Sem Xiang
<b>Test Date:</b>	2020-02-20

Test Mode: Transmitting

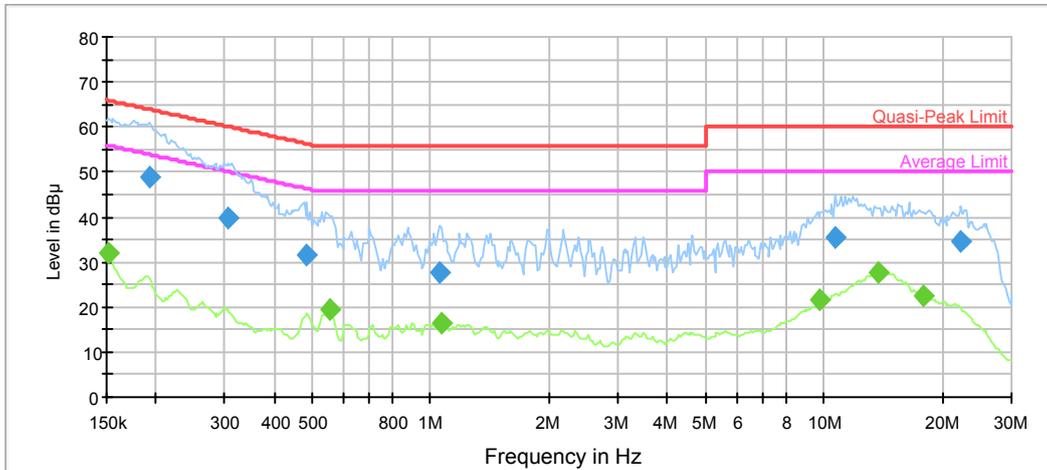
AC120 V, 60 Hz, Line:



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.154545	55.1	9.000	L1	9.7	10.7	65.8
0.259279	45.5	9.000	L1	9.7	16.0	61.5
0.471031	32.3	9.000	L1	9.7	24.2	56.5
1.212216	27.0	9.000	L1	9.7	29.0	56.0
10.296163	36.6	9.000	L1	10.0	23.4	60.0
11.835174	40.4	9.000	L1	10.1	19.6	60.0

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.154545	33.5	9.000	L1	9.7	22.3	55.8
0.304025	23.1	9.000	L1	9.7	27.0	50.1
0.557844	24.8	9.000	L1	9.7	21.2	46.0
0.983629	18.7	9.000	L1	9.7	27.3	46.0
14.016449	29.9	9.000	L1	10.2	20.1	50.0
17.975142	24.2	9.000	L1	10.2	25.8	50.0

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



Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.192365	49.0	9.000	N	9.7	14.9	63.9
0.307065	40.0	9.000	N	9.6	20.0	60.0
0.485304	31.8	9.000	N	9.6	24.4	56.2
1.054583	27.6	9.000	N	9.6	28.4	56.0
10.714228	35.6	9.000	N	9.8	24.4	60.0
22.373945	34.5	9.000	N	10.1	25.5	60.0

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.151500	31.9	9.000	N	9.7	24.0	55.9
0.552321	19.6	9.000	N	9.6	26.4	46.0
1.065129	16.6	9.000	N	9.6	29.4	46.0
9.796446	21.4	9.000	N	9.8	28.6	50.0
13.740269	27.6	9.000	N	9.9	22.4	50.0
17.975142	22.5	9.000	N	10.1	27.5	50.0

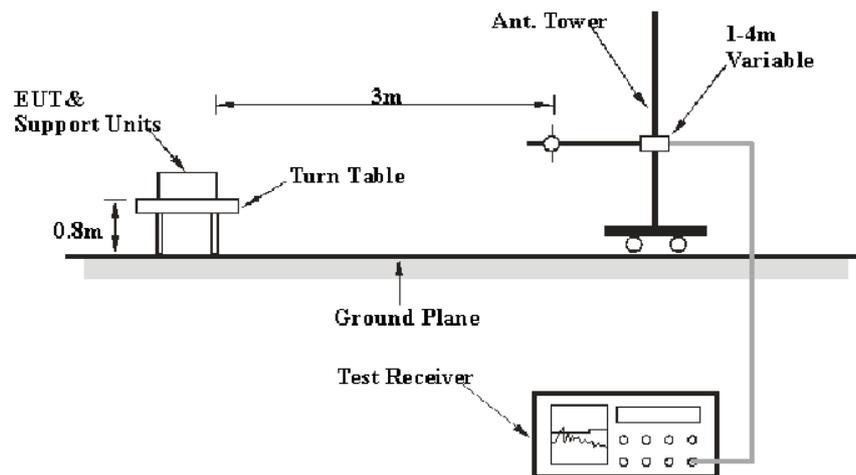
## FCC§15.225, §15.205 & §15.209- RADIATED EMISSIONS

### Applicable Standard

As per FCC Part 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.

### 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 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	Detector
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 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
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A
EMCO	Passive Loop	6512	9706-1206	2017-03-05	2020-03-04
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	2019-05-06	2020-05-06
HP	Amplifier	8447D	2727A05902	2019-09-05	2020-09-05
R&S	EMI Test Receiver	ESR3	102453	2019-09-12	2020-09-12
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.

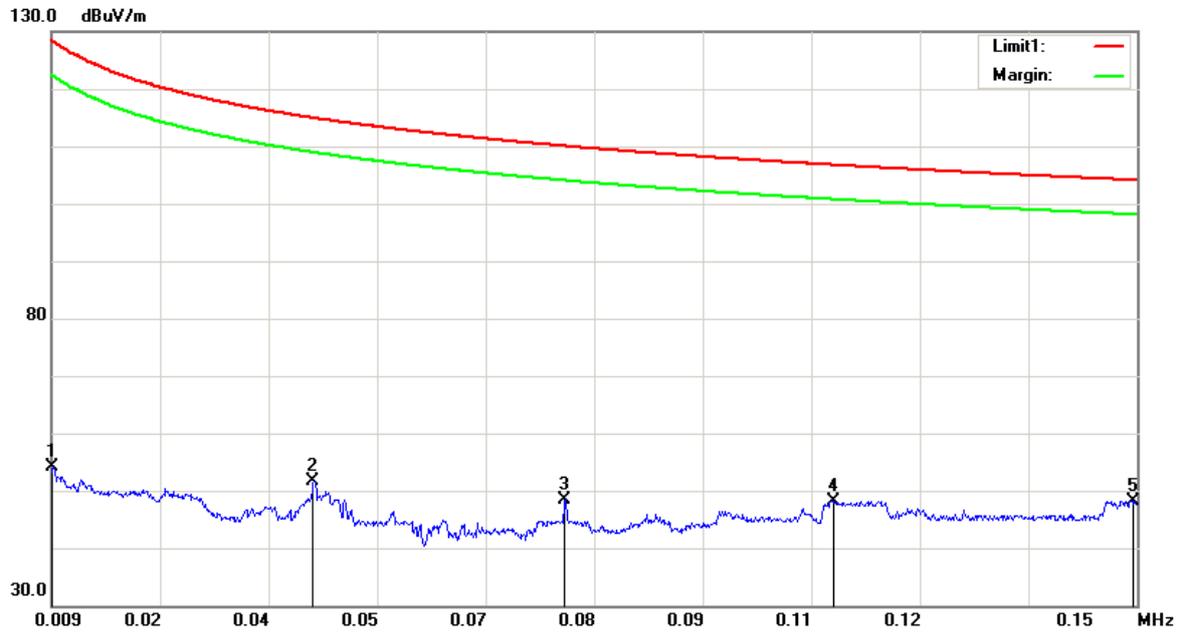
### Test Data

#### Environmental Conditions

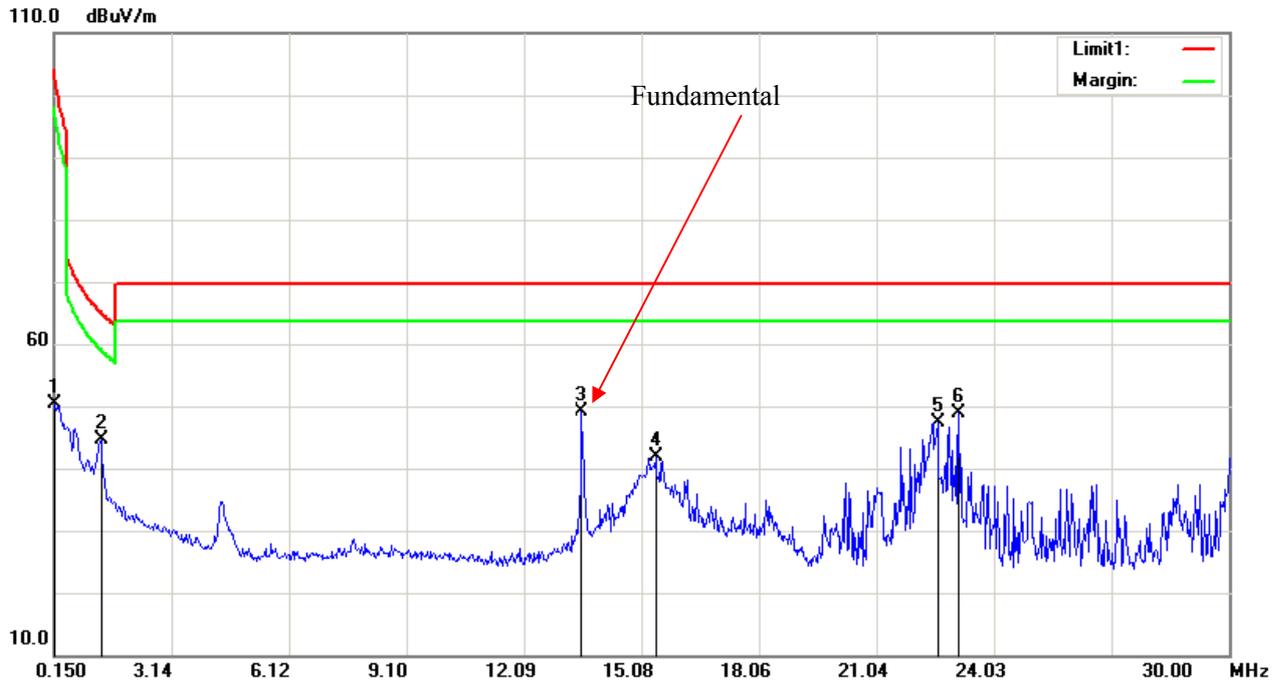
Test Items	Radiation Below 1GHz
Temperature:	25.3 °C
Relative Humidity:	55 %
ATM Pressure:	101.8 kPa
Tester:	Tyler Pan
Test Date:	2020-02-27

*Test mode: Transmitting*

1) 9 kHz~30 MHz:



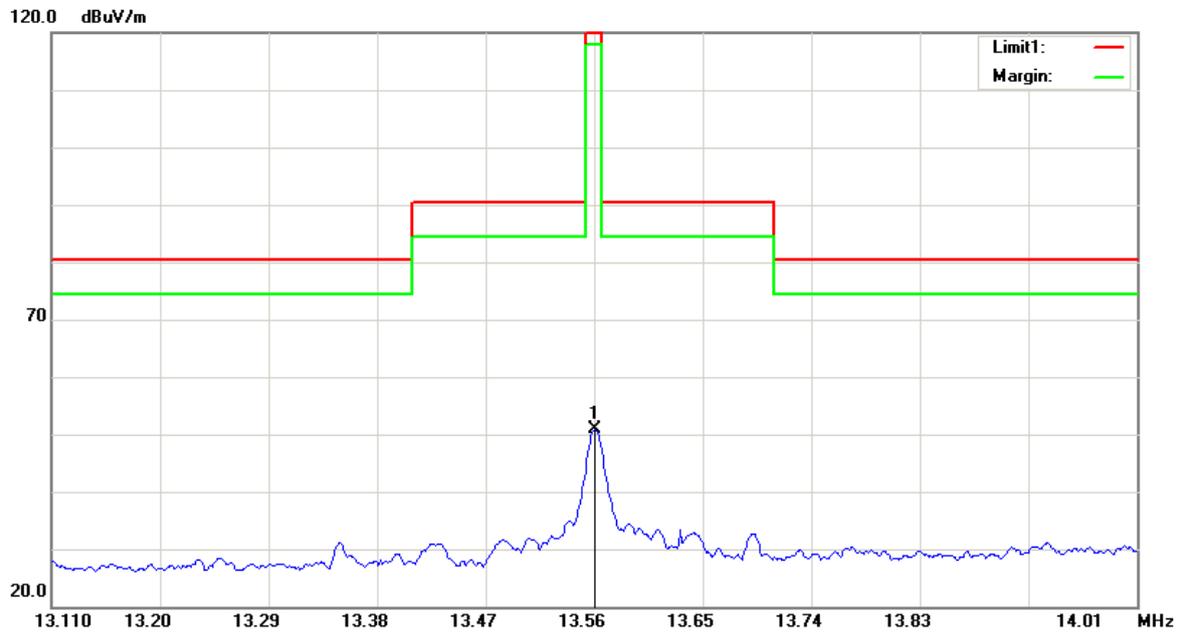
Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
0.0091	-34.66	peak	88.67	54.01	128.42	74.41
0.0430	-23.01	peak	74.70	51.69	114.93	63.24
0.0757	-20.66	peak	69.16	48.50	110.02	61.52
0.1107	-18.00	peak	66.20	48.20	106.72	58.52
0.1496	-15.73	peak	63.98	48.25	104.10	55.85



Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
0.1500	10.64	peak	38.62	49.26	104.08	54.82
1.3440	24.62	peak	19.98	44.60	65.03	20.43
<b>13.5525*</b>	<b>40.11</b>	<b>peak</b>	<b>9.36</b>	<b>49.47</b>	<b>69.54</b>	<b>20.07</b>
15.4330	32.63	peak	9.26	41.89	69.54	27.65
22.5972	38.36	peak	9.03	47.39	69.54	22.15
23.1344	39.83	peak	9.01	48.84	69.54	20.70

\*: Fundamental.

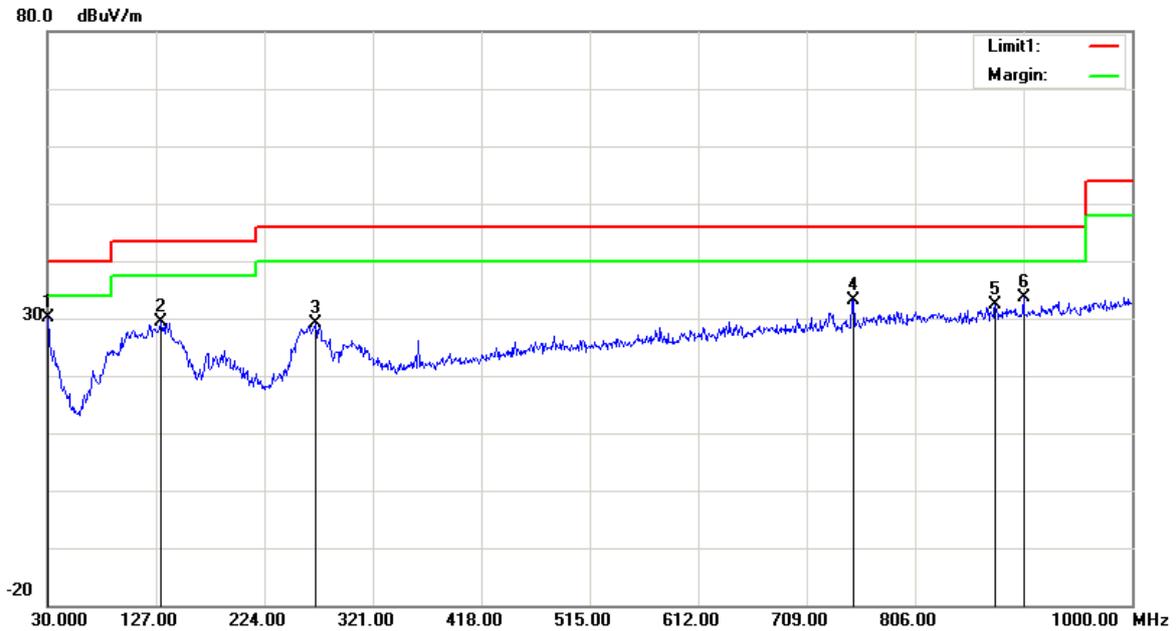
Fundamental:



Frequency (MHz)	Receiver Reading (dB $\mu$ V)	Detector	Correction Factor (dB)	Cord. Amp. (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)
13.5610	41.48	peak	9.36	50.84	124.00	73.16

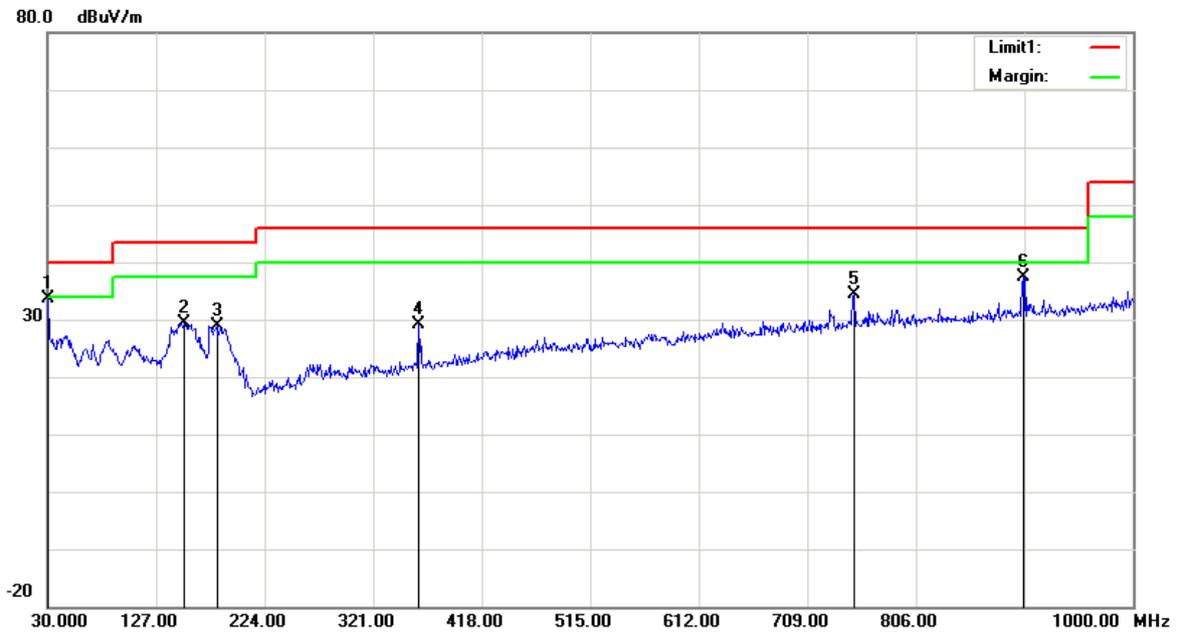
30MHz-1GHz

**Horizontal**



Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
30.9700	29.25	peak	0.91	30.16	40.00	9.84
131.8500	34.26	peak	-4.89	29.37	43.50	14.13
269.5900	33.48	peak	-4.36	29.12	46.00	16.88
750.7100	29.51	peak	3.66	33.17	46.00	12.83
877.7800	32.83	peak	-0.52	32.31	46.00	13.69
903.0000	33.47	peak	0.16	33.63	46.00	12.37

Vertical



Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
30.9700	32.80	peak	0.91	33.71	40.00	6.29
152.2200	35.45	peak	-5.97	29.48	43.50	14.02
181.3200	36.01	peak	-7.25	28.76	43.50	14.74
361.7400	31.85	peak	-2.80	29.05	46.00	16.95
750.7100	30.64	peak	3.66	34.30	46.00	11.70
902.0300	37.34	peak	0.14	37.48	46.00	8.52

## **FCC§15.225(e) - FREQUENCY STABILITY**

### **Applicable Standard**

As per FCC Part 15.225:

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 equipment under test was connected to an external DC 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 DC power supply Source. The voltage was set to the end point of the battery. The output frequency was recorded for each voltage.

### **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>
EMCO	Passive Loop	6512	9706-1206	2017-03-05	2020-03-04
R&S	EMI Test Receiver	ESR3	102453	2019-09-12	2020-09-12
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2019-09-05	2020-09-05
HP	Amplifier	8447D	2727A05902	2019-09-05	2020-09-05
ESPEC	Constant temperature and humidity Tester	ESX-4CA	018 463	2019-03-26	2020-03-26
UNI-T	Multimeter	UT39A	M130199938	2019-07-23	2020-07-23
Pro instrument	DC Power Supply	pps3300	3300012	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**

<b>Temperature:</b>	25.3 °C
<b>Relative Humidity:</b>	55%
<b>ATM Pressure:</b>	101.8 kPa
<b>Tester:</b>	Tyler Pan
<b>Test Date:</b>	2020-02-27

*Test Mode: Transmitting*

Test Result: Pass

<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>	
-30	3.85	13.56068	680	±1356	
-20		13.56081	810	±1356	
-10		13.56069	690	±1356	
0		13.56080	800	±1356	
10		13.56078	780	±1356	
20		13.56080	800	±1356	
25		13.56067	673	±1356	
30		13.56077	770	±1356	
40		13.56072	720	±1356	
50		13.56080	800	±1356	
25		3.6	13.56075	750	±1356
25		4.4	13.56078	780	±1356

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

### **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>
EMCO	Passive Loop	6512	9706-1206	2017-03-05	2020-03-04
R&S	EMI Test Receiver	ESR3	102453	2019-09-12	2020-09-12
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
HP	Amplifier	8447D	2727A05902	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**

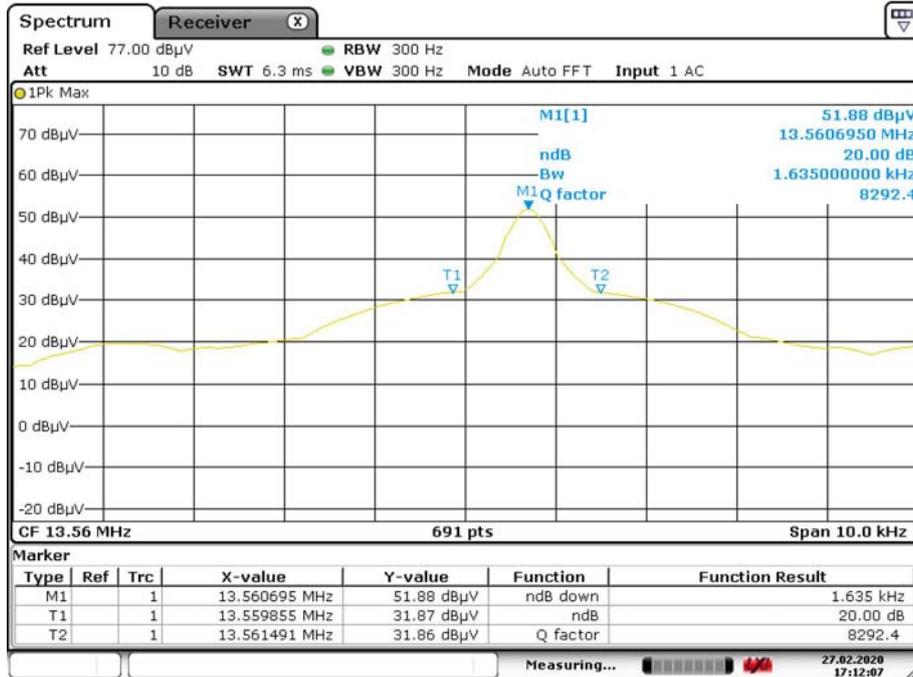
#### **Environmental Conditions**

<b>Temperature:</b>	25.3 °C
<b>Relative Humidity:</b>	55%
<b>ATM Pressure:</b>	101.8 kPa
<b>Tester:</b>	Tyler Pan
<b>Test Date:</b>	2020-02-27

*Test Mode: Transmitting*

Frequency (MHz)	20 dB Bandwidth (kHz)
13.56	1.635

20 dB Bandwidth



Date: 27.FEB.2020 17:12:08

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