

FCC PART 15.236

TEST REPORT

For

ESI CASES & ACCESSORIES

44 East 32nd Street ,6th Floor,New York, New York 10016 United States

FCC ID:2AQBE-BB2735

Report Type: Original Report	Product Name: Wireless Microphone
Report Number: RDG200320001-00A	
Report Date: 2020-05-29	
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TABLE OF CONTENTS

GENERAL INFORMATION.....	3
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	3
OBJECTIVE	3
RELATED SUBMITTAL(S)/GRANT(S).....	3
TEST METHODOLOGY	3
MEASUREMENT UNCERTAINTY	4
TEST FACILITY	4
DECLARATIONS.....	4
SYSTEM TEST CONFIGURATION.....	5
JUSTIFICATION	5
EUT EXERCISE SOFTWARE	5
EQUIPMENT MODIFICATIONS	5
BLOCK DIAGRAM OF TEST SETUP	5
SUMMARY OF TEST RESULTS	6
FCC§1.1310 & §2.1093- RF EXPOSURE	7
APPLICABLE STANDARD	7
FCC§15.236(D) - RF OUTPUT POWER	8
APPLICABLE STANDARD	8
TEST PROCEDURE	8
TEST EQUIPMENT LIST AND DETAILS.....	8
TEST DATA	8
FCC§15.236(F) (2)- OPERATING BANDWIDTH.....	10
APPLICABLE STANDARD	10
TEST PROCEDURE	10
TEST EQUIPMENT LIST AND DETAILS.....	10
TEST DATA	10
FCC§15.236(G) - EMISSION MASK	12
APPLICABLE STANDARD	12
TEST PROCEDURE	12
TEST EQUIPMENT LIST AND DETAILS.....	12
TEST DATA	13
FCC§15.236(F) (3)- FREQUENCY TOLERANCE.....	16
APPLICABLE STANDARD	16
TEST PROCEDURE	16
TEST EQUIPMENT LIST AND DETAILS.....	16
TEST DATA	17
FCC§15.236(G) - SPURIOUS EMISSIONS.....	18
APPLICABLE STANDARD	18
TEST PROCEDURE	18
TEST EQUIPMENT LIST AND DETAILS.....	19
TEST DATA	19

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

EUT Name:	Wireless Microphone
EUT Model:	BB2735
Multiple Models:	MC-U16
Operating Frequency:	657.3-660.8MHz
Modulation Type:	$\pi/4$ -DQPSK
Output Power: (EIPR)	5.07dBm
Rated Input Voltage:	DC 3V from battery
Serial Number:	RDG200320001-RF-S1
EUT Received Date:	2020.3.23
EUT Received Status:	Good

Notes: Model BB2735 was selected for fully testing, the detailed information about the difference among MC-U16 and model BB2735 can be referred to the declaration letter which was stated and guaranteed by the manufacturer.

Objective

This type approval report is prepared on behalf of **ESI CASES & ACCESSORIES** in accordance with Part 2-Subpart J, and Part 15-Subparts A and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Rules Part 15, Subpart C, and section 15.203, and 15.236 rules.

Related Submittal(s)/Grant(s)

Not related submittal.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices, and ETSI EN 300 422-1 V1.4.2(2011-08).

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Dongguan).

Measurement Uncertainty

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
Unwanted Emissions, radiated	30M~200MHz: 4.58 dB for Horizontal, 4.59 dB for Vertical 200M~1GHz: 4.83 dB for Horizontal, 5.85 dB for Vertical 1G~6GHz: 4.45 dB, 6G~26.5GHz: 5.23 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 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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SYSTEM TEST CONFIGURATION

Justification

The EUT was configured in operating mode for testing which was provided by the manufacturer.

The device employs total 8 channels as below:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	657.3	5	659.3
2	657.8	6	659.8
3	658.3	7	660.3
4	658.8	8	660.8

657.3MHz, 660.8MHz was tested.

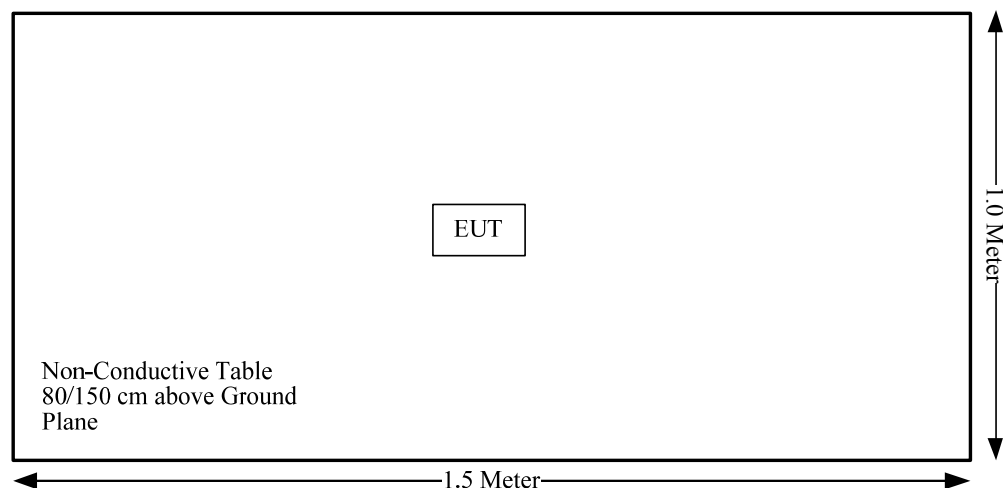
EUT Exercise Software

No software was used in test.

Equipment Modifications

No modifications were made to the EUT.

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1310 & §2.1093	RF Exposure	Compliance
§15.207(a)	Conduction Emissions	Not Applicable
§15.236(d)	RF Output Power	Compliance
§15.236(f)(2)	Operating Bandwidth	Compliance
§15.236(g)	Emission Mask	Compliance
§15.236(f)(3)	Frequency Tolerance	Compliance
§15.236(g)	Spurious Emission	Compliance

Note: the device was powered by battery.

FCC§1.1310 & §2.1093- RF Exposure

Applicable Standard

According to §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB447498 D01 General RF Exposure Guidance v06:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Measurement Result

The max EIRP power including tune-up tolerance is 6.0 dBm (3.98 mW).

$[(\text{max. power of channel, mW})/(\text{min. test separation distance, mm})][\sqrt{f(\text{GHz})}]$
 $= 3.98/5 \cdot (\sqrt{660.8}) = 0.7 < 3.0$

Result: Compliance. The stand-alone SAR evaluation is not necessary.

FCC§15.236(d) - RF Output Power

Applicable Standard

As per FCC§15.236(d):

The maximum radiated power shall not exceed the following values:

- (1) In the bands allocated and assigned for broadcast television and in the 600 MHz service band: 50 mW EIRP
- (2) In the 600 MHz guard band and the 600 MHz duplex gap: 20 mW EIRP.

Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load, which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the emissions were measured by the substitution.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESR3	102453	2019-06-26	2020-06-26
Sunol Sciences	Antenna	JB3	A060611-1	2017-11-10	2020-11-10
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
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
Agilent	Signal Generator	E8247C	MY43321350	2019-12-10	2020-12-10

*** 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 Data

Environmental Conditions

Temperature:	26 °C
Relative Humidity:	54%
ATM Pressure:	101.9kPa
Test by:	Jalon Liu
Test Date:	2020.04.11

Test Mode: Transmitting

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			ERP Absolute Level (dBm)	EIRP Absolute Level (dBm)	Limit (dBm)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency:657.3MHz								
657.30	H	62.77	-15.34	0.00	0.86	-16.20	-14.05	13.00
657.30	V	79.44	3.78	0.00	0.86	2.92	5.07	13.00
Frequency:660.8MHz								
660.80	H	59.69	-18.33	0.00	0.87	-19.20	-17.05	13.00
660.80	V	77.95	2.38	0.00	0.87	1.51	3.66	13.00

Test Result: Compliance.

FCC§15.236(f) (2)- Operating Bandwidth

Applicable Standard

As per FCC§15.236(f)(2):

One or more adjacent 25 kHz segments within the assignable frequencies may be combined to form a channel whose maximum bandwidth shall not exceed 200 kHz. The operating bandwidth shall not exceed 200 kHz.

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
3. Repeat above procedures until all frequencies measured were complete.

Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2020-05-09	2021-05-09
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41005012	Each Time	/
E-Microwave	Blocking Control	EMDCB-00036	0E01201047	Each Time	/
E-Microwave	Coaxial Attenuators	EMCA10-5RN-6	OE01203239	Each Time	/

*** 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

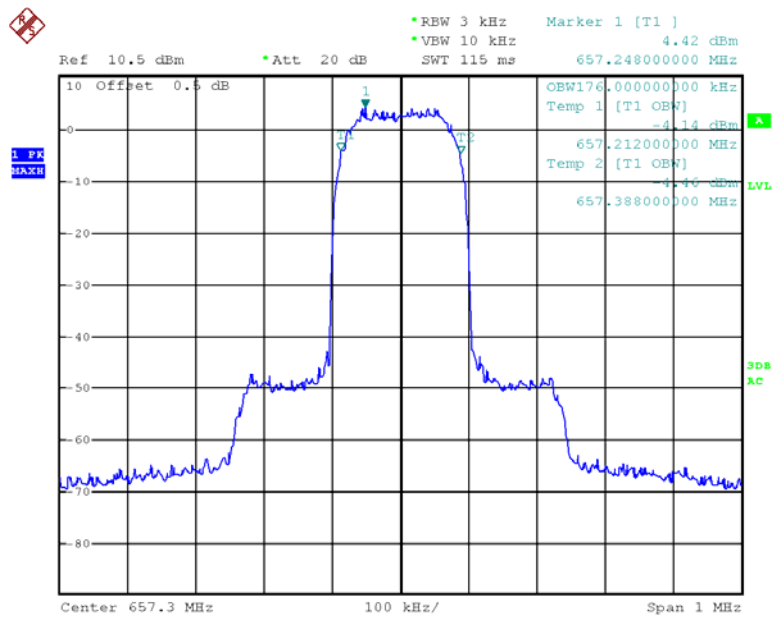
Temperature:	24 °C
Relative Humidity:	52%
ATM Pressure:	101.9kPa
Test by:	Gavin Xu
Test Date:	2020.05.13

Test Mode: Transmitting

Test Result: Compliance. Please refer the below Table and Plots:

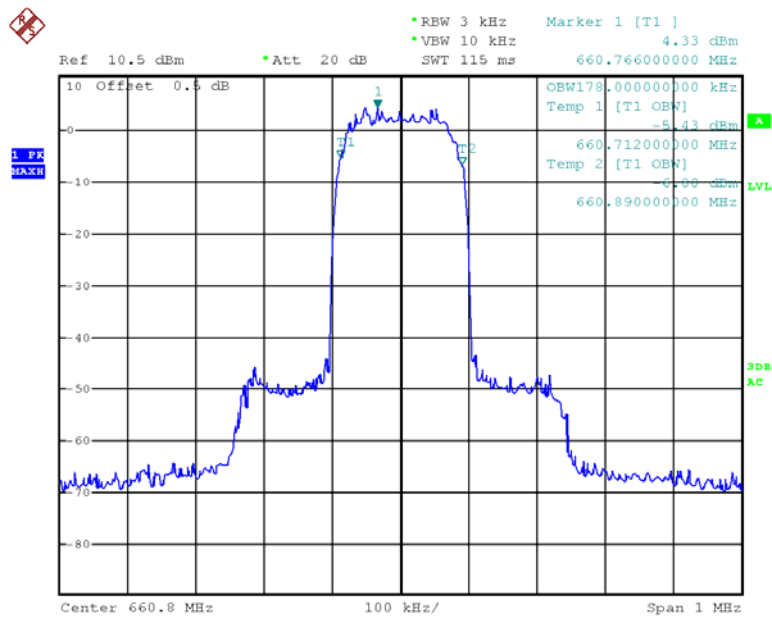
Test Channel	Test Frequency (MHz)	99% Occupied Bandwidth (kHz)	Limit (kHz)
Low	657.3	176.000	200
High	660.8	178.000	200

Low Channel



Date: 13.MAY.2020 23:39:26

High Channel



Date: 13.MAY.2020 23:21:59

FCC§15.236(g) - Emission Mask

Applicable Standard

As per FCC§15.236(g):

Emissions within the band from one megahertz below to one megahertz above the carrier frequency shall comply with the emission mask in §8.3 of ETSI EN 300 422-1 V1.4.2 (2011-08), Electromagnetic compatibility and Radio spectrum Matters (ERM); Wireless microphones in the 25 MHz to 3 GHz frequency range; Part 1: Technical characteristics and methods of measurement. Emissions outside of this band shall comply with the limits specified in section 8.4 of ETSI EN 300 422-1 V1.4.2 (2011-08).

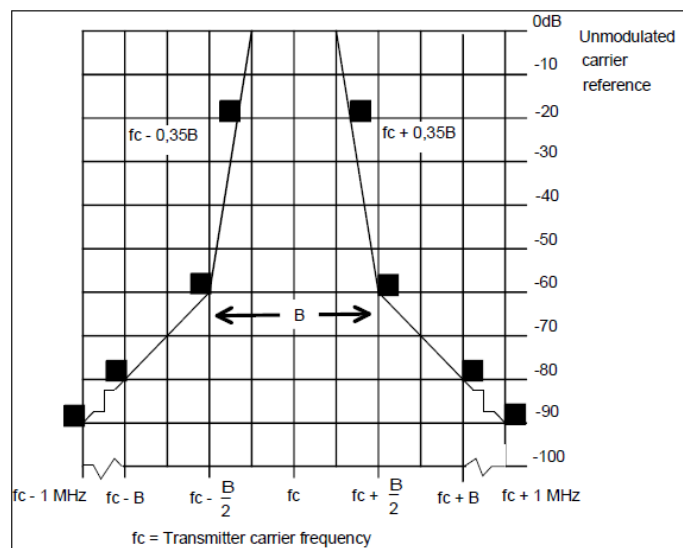


Figure 3: Spectrum mask for analogue systems in all bands

Figure 3 shows the spectrum mask for all analogue systems in the band. The -90 dBc point shall be ± 1 MHz from f_c measured with an average detector. To comply, a measured value must fall below the mask limit as shown in figure 3.

Test Procedure

Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

Measure the emissions within the band from one megahertz below to one megahertz above the carrier frequency.

Repeat above procedures until all frequencies measured were complete.

Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2020-05-09	2021-05-09
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41005012	Each Time	/
E-Microwave	Blocking Control	EMDCB-00036	0E01201047	Each Time	/
E-Microwave	Coaxial Attenuators	EMCA10-5RN-6	0E01203239	Each Time	/

*** 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).

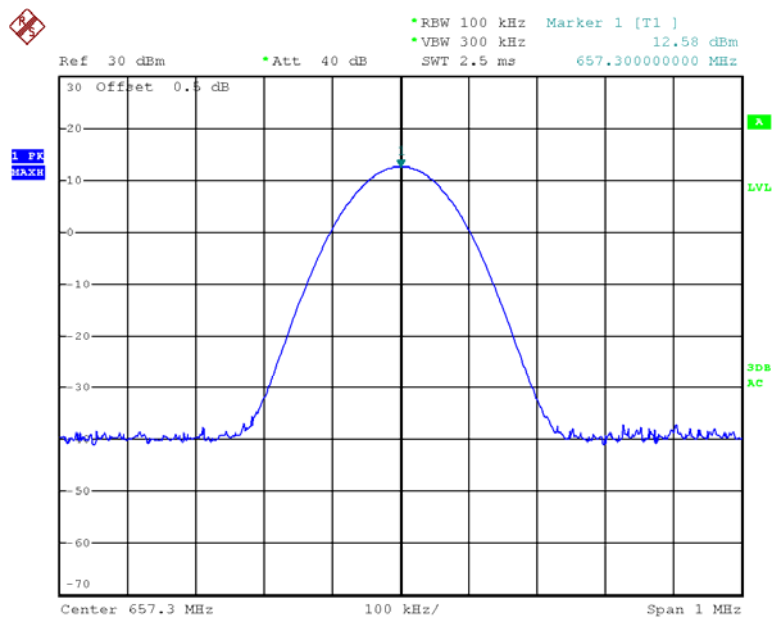
Test Data**Environmental Conditions**

Temperature:	24 °C
Relative Humidity:	52%
ATM Pressure:	101.9kPa
Test by:	Gavin Xu
Test Date:	2020.05.13~2020.05.29

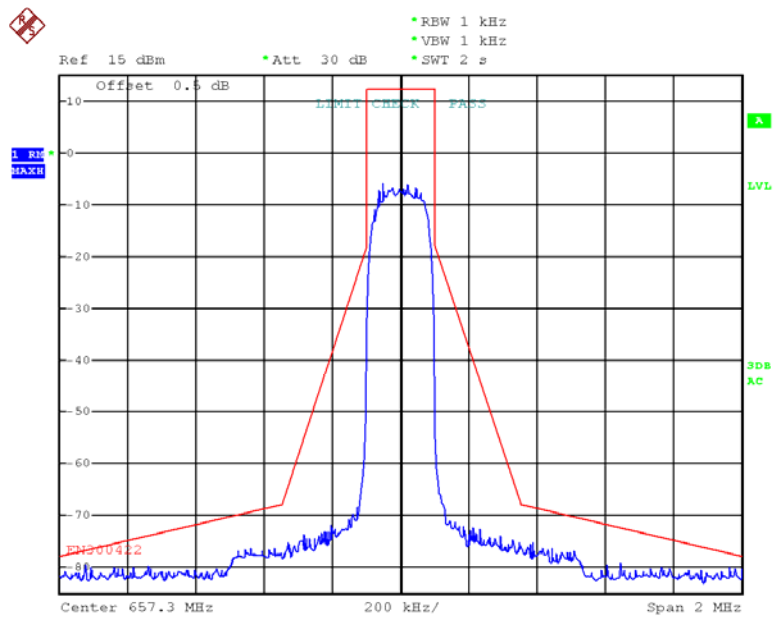
Test Mode: Transmitting

Test Result: Compliance. Please refer the below Plots:

Low Channel

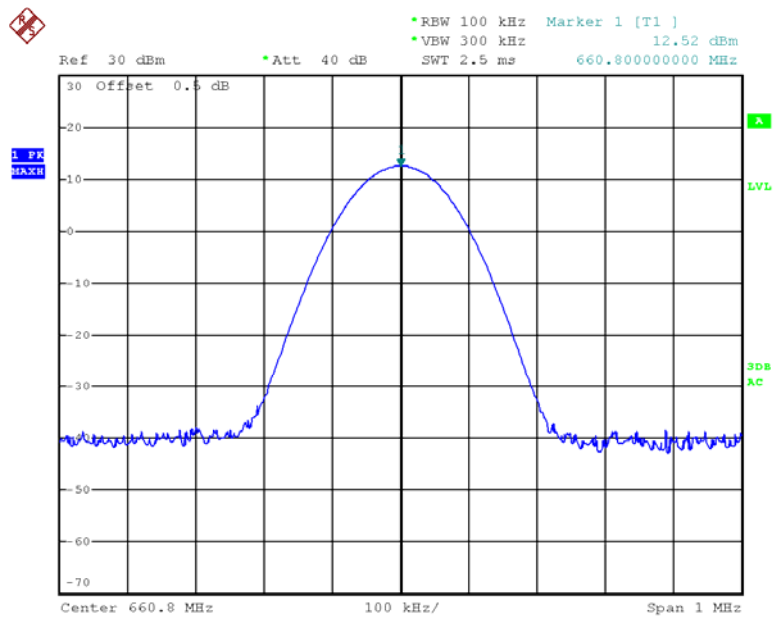


Date: 29.MAY.2020 16:23:30



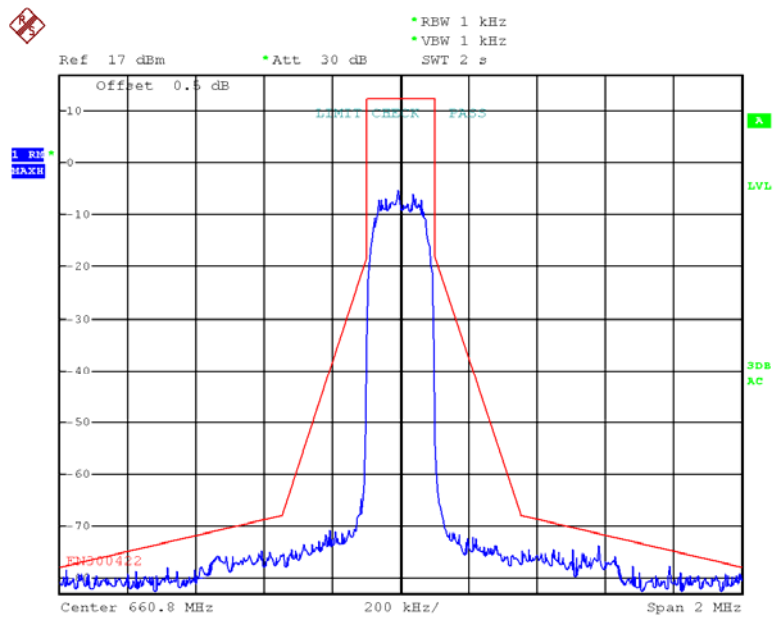
Date: 13.MAY.2020 23:29:21

High Channel



Date: 29.MAY.2020 16:21:37

High Channel



Date: 13.MAY.2020 23:13:17

FCC§15.236(f) (3)- Frequency Tolerance

Applicable Standard

As per FCC§15.236(f)(3):

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.005\%$ 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. Battery operated equipment shall be tested using a new battery.

Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to a Frequency Counter via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the Frequency Counter.

Frequency Stability vs. Voltage:

1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.

(2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.

The output frequency was recorded for each voltage.

Test Equipment List and Details

Manufacturer	Description	Model No.	Serial No.	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2020-05-09	2021-05-09
yzjingcheng	Coaxial Cable	KTRFBU-141-50	41005012	Each Time	/
E-Microwave	Blocking Control	EMDCB-00036	0E01201047	Each Time	/
E-Microwave	Coaxial Attenuators	EMCA10-5RN-6	0E01203239	Each Time	/
UNI-T	Multimeter	UT39A	M130199938	2019-07-23	2020-07-23
ESPEC	Constant temperature and humidity Tester	ESX-4CA	018 463	2020-03-26	2021-03-26
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**

Temperature:	24 °C
Relative Humidity:	52%
ATM Pressure:	101.9kPa
Test by:	Gavin Xu
Test Date:	2020.05.13

Test Mode: Transmitting

Test Result: Compliance. Please refer the below Table:

Temperature	Voltage	Measured frequency	Test Frequency	Frequency tolerance	Limit
°C	V _{DC}	MHz	MHz	ppm	ppm
-30	3.0	657.29850	657.3	2.28	50
-20	3.0	657.29851	657.3	2.27	50
-10	3.0	657.29852	657.3	2.25	50
0	3.0	657.29896	657.3	1.58	50
10	3.0	657.29873	657.3	1.93	50
20	3.0	657.29870	657.3	1.98	50
25	3.0	657.30000	657.3	0.00	50
30	3.0	657.29870	657.3	1.98	50
40	3.0	657.29876	657.3	1.89	50
50	3.0	657.29783	657.3	3.30	50
20	2.7	657.29875	657.3	1.90	50
20	3.3	657.29975	657.3	0.38	50

Temperature	Voltage	Measured frequency	Test Frequency	Frequency tolerance	Limit
°C	V _{DC}	MHz	MHz	ppm	ppm
-30	3.0	660.7985	660.8	-2.27	50
-20	3.0	660.7974	660.8	-3.93	50
-10	3.0	660.7992	660.8	-1.21	50
0	3.0	660.7995	660.8	-0.76	50
10	3.0	660.7992	660.8	-1.21	50
20	3.0	660.7973	660.8	-4.09	50
25	3.0	660.7987	660.8	-1.97	50
30	3.0	660.7974	660.8	-3.93	50
40	3.0	660.7989	660.8	-1.66	50
50	3.0	660.7983	660.8	-2.57	50
20	2.7	660.7986	660.8	-2.12	50
20	3.3	660.7983	660.8	-2.57	50

FCC§15.236(g) - Spurious Emissions

Applicable Standard

As per FCC§15.236(g):

Emissions within the band from one megahertz below to one megahertz above the carrier frequency shall comply with the emission mask in §8.3 of ETSI EN 300 422-1 V1.4.2 (2011-08), Electromagnetic compatibility and Radio spectrum Matters (ERM); Wireless microphones in the 25 MHz to 3 GHz frequency range; Part 1: Technical characteristics and methods of measurement. Emissions outside of this band shall comply with the limits specified in section 8.4 of ETSI EN 300 422-1 V1.4.2 (2011-08).

Table 3: Limits for spurious emissions

State	Frequency		
	47 MHz to 74 MHz 87,5 MHz to 137 MHz 174 MHz to 230 MHz 470 MHz to 862 MHz	Other Frequencies below 1 000 MHz	Frequencies above 1 000 MHz
Operation	4 nW	250 nW	1 µW
Standby	2 nW	2 nW	20 nW

Test Procedure

As Per section 8.4 of ETSI EN 300 422-1 V1.4.2 (2011-08)

On a test site, the sample shall be placed at the specified height on a non-conducting support. The transmitter shall be operated at the power as specified under clause 8.2, delivered to the antenna (see clause 5.1.1).

Radiation of any spurious components shall be detected by the test antenna and receiver, over the frequency range specified below, excluding the 250 % (out of band region) band of frequencies centred on the channel on which the transmitter is intended to operate.

NOTE: The 250 % (out of band region) exclusion is covered by measurements carried out in clauses 8.3.1 and 8.3.2.

The measuring receiver, as defined in table 4, shall be tuned over the frequency range 25 MHz to 4 GHz for equipment operating on frequencies below 1 GHz or in the frequency range of 25 MHz to 12,75 GHz for equipment operating on frequencies above 1 GHz.

At each frequency at which a component is detected, the sample shall be rotated to obtain maximum response and the effective radiated power of that component determined by a substitution measurement. The measurement shall be repeated with the test antenna in the orthogonal polarization plane.

If the transmitter allows for standby operation, the tests shall be repeated with the transmitter in standby mode.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESR3	102453	2019-06-26	2020-06-26
Sunol Sciences	Antenna	JB3	A060611-1	2017-11-10	2020-11-10
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
Unknown	Coaxial Cable	C-NJNJ-50	C-0200-02	2019-09-05	2020-09-05
HP	Amplifier	8447D	2727A05902	2019-09-05	2020-09-05
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
Agilent	Signal Generator	E8247C	MY43321350	2019-12-10	2020-12-10
Agilent	Spectrum Analyzer	E4440A	SG43360054	2019-05-09	2020-05-09
ETS-Lindgren	Horn Antenna	3115	000 527 35	2018-10-12	2021-10-12
TDK RF	Horn Antenna	HRN-0118	130 084	2018-10-12	2021-10-12
Unknown	Coaxial Cable	C-SJSJ-50	C-0800-01	2019-09-05	2020-09-05
Mini-Circuit	Amplifier	ZVA-213-S+	54201245	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**

Temperature:	26 °C
Relative Humidity:	54%
ATM Pressure:	101.9kPa
Test by:	Jalon Liu
Test Date:	2020.04.11

Test Result: Compliance. Please refer the below Table:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Standby								
3567.000	H	10.36	-59.6	14.0	3.7	-49.3	-47.0	2.3
3567.000	V	9.55	-60.1	14.0	3.7	-49.8	-47.0	2.8
216.000	H	20.98	-64.8	0.0	0.5	-65.3	-57.0	8.3
213.200	V	20.01	-62.6	0.0	0.5	-63.1	-57.0	6.1

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
TX, Test frequency:657.3MHz								
755.00	H	20.69	-55.32	0.00	0.93	-56.25	-54.00	2.25
705.90	V	21.02	-53.44	0.00	0.94	-54.38	-54.00	0.38
1314.60	H	34.23	-38.76	8.40	2.19	-32.55	-30.00	2.55
1314.60	V	33.12	-40.57	8.40	2.19	-34.36	-30.00	4.36
1971.90	H	29.67	-42.33	11.94	2.71	-33.10	-30.00	3.10
1971.90	V	29.16	-42.84	11.94	2.71	-33.61	-30.00	3.61
2629.20	H	27.35	-43.44	13.17	3.14	-33.41	-30.00	3.41
2629.20	V	27.66	-43.13	13.17	3.14	-33.10	-30.00	3.10
3286.50	H	25.38	-45.58	13.60	3.54	-35.52	-30.00	5.52
3286.50	V	25.76	-45.20	13.60	3.54	-35.14	-30.00	5.14
3943.80	H	22.75	-44.30	13.66	3.86	-34.50	-30.00	4.50
3943.80	V	22.39	-44.66	13.66	3.86	-34.86	-30.00	4.86
TX, Test frequency:660.8MHz								
755.00	H	20.25	-55.76	0.00	0.93	-56.69	-54.00	2.69
705.90	V	20.47	-53.99	0.00	0.94	-54.93	-54.00	0.93
1306.60	H	32.26	-38.76	8.40	2.19	-32.55	-30.00	2.55
1306.60	V	31.69	-40.57	8.40	2.19	-34.36	-30.00	4.36
1959.90	H	27.99	-42.33	11.94	2.71	-33.10	-30.00	3.10
1959.90	V	28.17	-42.84	11.94	2.71	-33.61	-30.00	3.61
2613.20	H	26.99	-43.44	13.17	3.14	-33.41	-30.00	3.41
2613.20	V	26.79	-43.13	13.17	3.14	-33.10	-30.00	3.10
3266.50	H	26.55	-45.58	13.60	3.54	-35.52	-30.00	5.52
3266.50	V	26.42	-45.20	13.60	3.54	-35.14	-30.00	5.14
3919.80	H	22.39	-44.30	13.66	3.86	-34.50	-30.00	4.50
3919.80	V	22.69	-44.66	13.66	3.86	-34.86	-30.00	4.86

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