



FCC PART 15.247

TEST REPORT

For

JRI

16, rue louis rameau, Bezons, France

FCC ID: W4512484

Report Type: Original Report **Product Type:** LORA TEMP

Jimmy Xiao

Report Number: RSZ200114001-00B

Report Date: 2020-05-25

Jimmy Xiao

Reviewed By: RF Engineer

Prepared By: Bay Area Compliance Laboratories Corp. (Shenzhen) 6/F., West Wing, Third Phase of Wanli Industrial Building, Shihua Road, Futian Free Trade Zone, Shenzhen, Guangdong, China Tel: +86-755-33320018 Fax: +86-755-33320008 www.baclcorp.com.cn

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GENERAL INFORMATION

Product	LORA TEMP
Tested Model	12484
Frequency Range	903~914.2 MHz
Maximum Conducted Peak Output Power	14.79dBm
Technique	DTS
Antenna Specification	1.0dBi
Voltage Range	DC 3.6V
Date of Test	2020-04-09 to 2020-05-18
Sample serial number	RSZ200114001 - RF-S1(Assigned by BACL, Shenzhen)
Received date	2020-01-14
Sample/EUT Status	Good condition

Product Description for Equipment under Test (EUT)

Objective

This report is prepared on behalf of *JRI* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.209 and 15.247 rules.

Related Submittal(s)/Grant(s)

Part 15.247 DSS submissions with FCC ID: W4512484.

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 KDB 558074 D01 15.247 Meas Guidance v05r02.

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

Measurement Uncertainty

Parameter		Uncertainty		
Occupied Channel Bandwidth		±5%		
RF Output Power	with Power meter	±0.73dB		
RF conducted test with spectrum		±1.6dB		
AC Power Lines Conducted Emissions		±1.95dB		
Emissions,	Below 1GHz	±4.75dB		
Radiated	Above 1GHz	±4.88dB		
Temperature		±1°C		
Humidity		±6%		
Supply	voltages	±0.4%		

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

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F., West Wing, Third Phase of Wanli Industrial Building, Shihua Road, Futian Free Trade Zone, Shenzhen, 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.: 342867, the FCC Designation No.: CN1221.

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

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in engineering mode.

Channel List

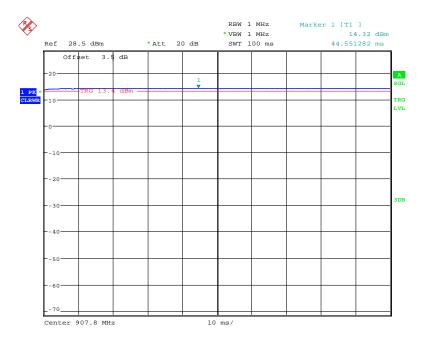
Channel	Freq.(MHz)	Channel	Freq.(MHz)	Channel	Freq.(MHz)	Channel	Freq.(MHz)
64	903	65	904.6	66	906.2	67	907.8
68	909.4	69	911	70	912.6	71	914.2

Channel 64, 67 and 71 were tested.

Equipment Modifications

No modification was made to the EUT tested.

Duty cycle



Date: 18.MAY.2020 15:45:21

Mode	Ton	Ton+off	Duty Cycle
	(ms)	(ms)	(%)
DTS	100	100	100

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Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
/	/	/	/

External I/O Cable

Cable Description	Length (m)	From Port	То
/	/	/	/

Block Diagram of Test Setup

For Radiated Emissions:

Non-Conductive Table 80/150 cm above Ground Plane	EUT	-	▲ 1.0 meter
└ ─────┤	1.5 meters	``	¥

SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§15.247 (i), §2.1091	Maximum Permissible Exposure(MPE)	Compliance
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Not Applicable
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliance
§15.247(b)(3)	Maximum Conducted Output Power	Compliance
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance
§15.247(e)	Power Spectral Density	Compliance

Not Applicable: The EUT is powered by battery only.

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TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date			
Radiated Emission Test								
R&S	EMI Test Receiver	ESR3	102455	2019/7/9	2020/7/8			
Sonoma instrument	Pre-amplifier	310 N	186238	2019/4/20	2020/4/20			
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2017/12/22	2020/12/21			
Unknow	Cable 2	RF Cable 2	F-03-EM197	2019/11/29	2020/11/28			
Unknow	Cable	Chamber Cable 1	F-03-EM236	2019/11/29	2020/11/28			
Rohde & Schwarz	Auto test software	EMC 32	V9.10	NCR	NCR			
Rohde & Schwarz	Spectrum Analyzer	FSV40-N	102259	2019/7/22	2020/07/21			
COM-POWER	Pre-amplifier	PA-122	181919	2019/11/29	2020/11/28			
Sunol Sciences	Horn Antenna	DRH-118	A052604	2017/12/22	2020/12/21			
Insulted Wire Inc.	RF Cable	SPS-2503-3150	02222010	2019/11/29	2020/11/28			
Unknow	RF Cable	W1101-EQ1 OUT	F-19-EM005	2019/11/29	2020/11/28			
	ŀ	RF Conducted Test						
Rohde & Schwarz	SPECTRUM ANALYZER	FSU26	200120	2020/3/1	2021/3/1			
Agilent	USB Wideband Power Sensor	U2021XA	MY5425000 3	2019/7/10	2020/7/9			
WEINSCHEL	3dB Attenuator	Unknow	F-03-EM121	2019/11/29	2020/11/28			
Unknown	RF Cable	Unknown	2301 276	2019/11/29	2020/11/28			

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

FCC §15.247 (i) & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 15.247 (i) and subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

Limits for General Population/Uncontrolled Exposure							
Frequency Range (MHz)	Electric Field Strength (V/m)	Averaging Time (Minutes)					
0.3-1.34	614	1.63	*(100)	30			
1.34-30	824/f	2.19/f	*(180/f ²)	30			
30-300	27.5	0.073	0.2	30			
300-1500	/	/	f/1500	30			
1500-100,000	/	/	1.0	30			

Limits for General Population/Uncontrolled Exposure

f = frequency in MHz

* = Plane-wave equivalent power density

Result

Calculated Formulary:

Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm2)

P = power input to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

Frequency	Ante	Antenna Gain		conducted wer	Evaluation Distance	Power Density	MPE Limit
(MHz)	(dBi)	(numeric)	(dBm)	(mW)	(cm)	$(\mathrm{mW/cm}^2)$ (m	(mW/cm^2)
903	1.0	1.26	15.0	31.62	20	0.008	0.602

Note: To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliance

FCC §15.203 - ANTENNA REQUIREMENT

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.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has an internal antenna arrangement, which was permanently attached and the antenna gain is 1.0 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliance.

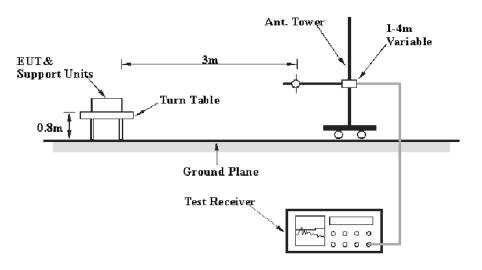
FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

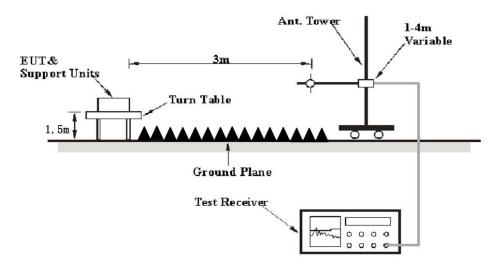
FCC §15.247 (d); §15.209; §15.205;

EUT Setup

Below 1 GHz:



Above 1GHz:



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 10GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
	1MHz	3 MHz	/	РК
Above 1 GHz	1MHz	10 Hz Note 1	/	Average
	1MHz	> 1/T ^{Note 2}	/	Average

Note 1: when duty cycle is no less than 98% Note 2: when duty cycle is less than 98%

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

Corrected Amplitude & Margin Calculation

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

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - 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:

Margin = Limit – Corrected Amplitude

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.247.

Test Data

Environmental Conditions

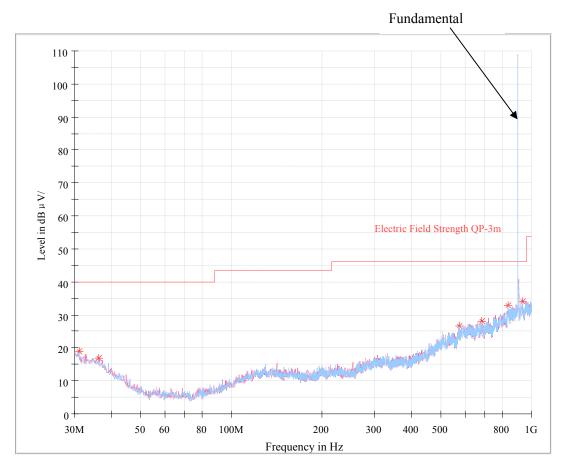
Temperature:	23 °C
Relative Humidity:	56 %
ATM Pressure:	101.0 kPa

The testing was performed by Zero Yang on 2020-04-09 for below 1G and Leven Gan on 2020-04-25 for above 1G.

Bay Area Compliance Laboratories Corp. (Shenzhen)

EUT operation mode: Transmitting (Low channel worst case)

30 MHz~1 GHz:



Frequency (MHz)	Corrected Amplitude (dBµV/m)	Antenna height (cm)	Antenna Polarity	Turntable position (degree)	Correction Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
31.091250	18.89	205.0	V	139.0	-8.3	40.00	21.11
36.062500	16.80	105.0	V	336.0	-11.2	40.00	23.20
574.170000	26.75	105.0	Н	36.0	-2.9	46.00	19.25
682.567500	28.20	390.0	V	184.0	-1.4	46.00	17.80
838.252500	32.74	105.0	Н	49.0	2.8	46.00	13.26
933.433750	34.00	305.0	V	173.0	4.8	46.00	12.00

1 GHz - 10 GHz:

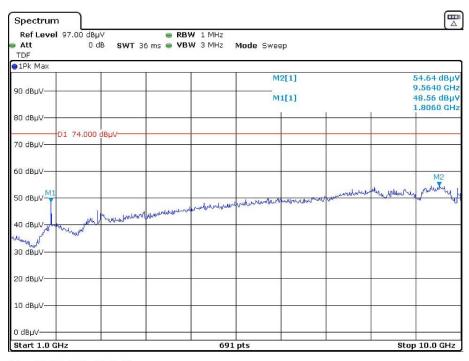
Frequency	Re	eceiver	Turntable	Rx An	tenna		Corrected	15 247	C Part /205/209
(MHz)	Reading (dBµV)	Detector (PK/QP/Ave.)		Height (m)	Polar (H/V)	Factor (dB)	Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
			Low C	hannel(903MH	z)			
1806.00	52.37	РК	309	2.4	V	-1.65	50.72	74	23.28
1806.00	48.88	Ave.	309	2.4	V	-1.65	47.23	54	6.77
2709.00	47.34	РК	124	2.4	V	1.09	48.43	74	25.57
2709.00	38.78	Ave.	124	2.4	V	1.09	39.87	54	14.13
3612.00	44.51	РК	202	1.2	V	4.03	48.54	74	25.46
3612.00	33.21	Ave.	202	1.2	V	4.03	37.24	54	16.76
	Middle Channel(907.8MHz)								
1815.60	51.52	РК	94	1.2	V	-1.55	49.97	74	24.03
1815.60	48.47	Ave.	94	1.2	V	-1.55	46.92	54	7.08
2723.40	46.78	РК	169	2.4	V	1.19	47.97	74	26.03
2723.40	38.56	Ave.	169	2.4	V	1.19	39.75	54	14.25
3631.20	44.45	РК	212	1.4	V	4.03	48.48	74	25.52
3631.20	32.15	Ave.	212	1.4	V	4.03	36.18	54	17.82
			High Ch	annel(9	14.2 M	Hz)			
1828.40	51.53	РК	278	2.2	V	-1.55	49.98	74	24.02
1828.40	48.12	Ave.	278	2.2	V	-1.55	46.57	54	7.43
2742.60	46.71	РК	261	1.3	V	1.19	47.90	74	26.10
2742.60	37.17	Ave.	261	1.3	V	1.19	38.36	54	15.64
3656.80	45.04	РК	324	2.2	V	3.06	48.10	74	25.90
3656.80	32.24	Ave.	324	2.2	V	3.06	35.30	54	18.70

Note:

Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor Corrected Amplitude = Corrected Factor + Reading Margin = Limit - Corrected. Amplitude

The other spurious emission which is 20dB to the limit was not recorded.

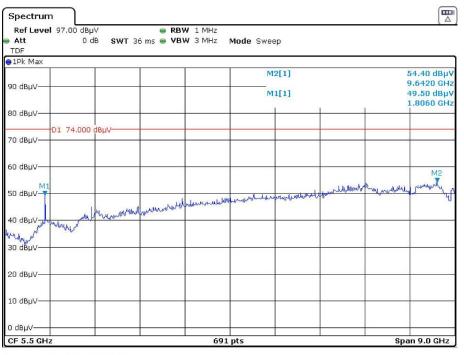
Pre-scan with low channel Peak



Horizontal

Date: 25.APR.2020 17:52:30

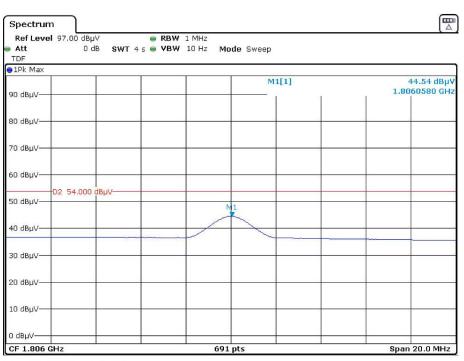
Vertical



Date: 25.APR.2020 17:45:16

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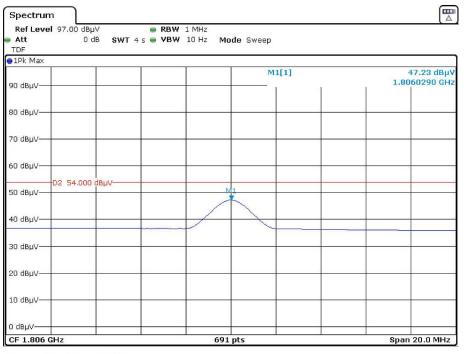
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Pre-scan for Average Horizontal

Date: 25.APR.2020 17:56:12

Vertical



Date: 25.APR.2020 17:48:10

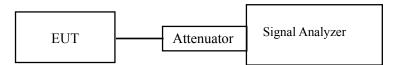
FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH

Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 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. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- 3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
- 4. Repeat above procedures until all frequencies measured were complete.



Test Data

Environmental Conditions

Temperature:	24 °C	
Relative Humidity:	53 %	
ATM Pressure:	110.0 kPa	

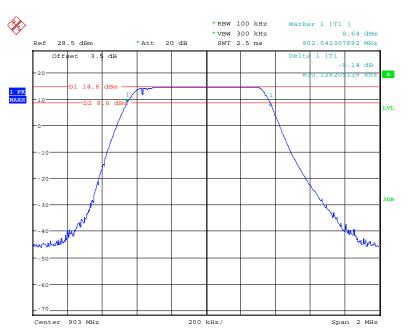
The testing was performed by Gavin Guo on 2020-05-18.

Test Result: Pass.

Please refer to the following table and plots.

EUT operation mode: Transmitting

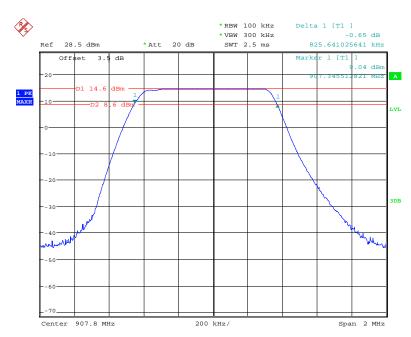
Test Mode	Frequency (MHz)	DTS BW (MHz)	Limit (MHz)
DTS	903	0.830	0.5
DTS	907.8	0.826	0.5
DTS	914.2	0.820	0.5



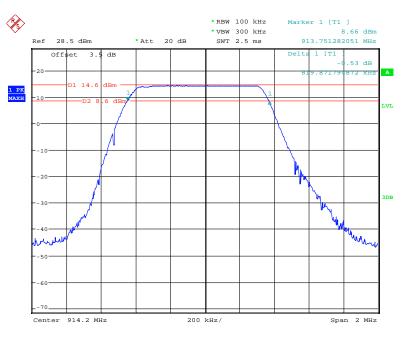
Low Channel

Date: 18.MAY.2020 15:28:38





Date: 18.MAY.2020 15:39:12



High Channel

Date: 18.MAY.2020 15:11:03

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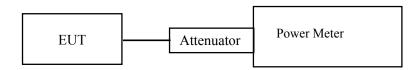
FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Test Procedure

- 1. Place the EUT on a bench and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
- 3. Add a correction factor to the display.



Test Data

Environmental Conditions

Temperature:	24 °C	
Relative Humidity:	53 %	
ATM Pressure:	110.0 kPa	

The testing was performed by Gavin Guo on 2020-05-18.

EUT operation mode: Transmitting

Mode	Frequency (MHz)	Max Peak Output Power (dBm)	Limit (dBm)
	903	14.79	<=30
DTS	907.8	14.70	<=30
	914.2	14.71	<=30

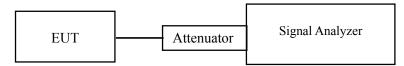
FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.



Test Data

Environmental Conditions

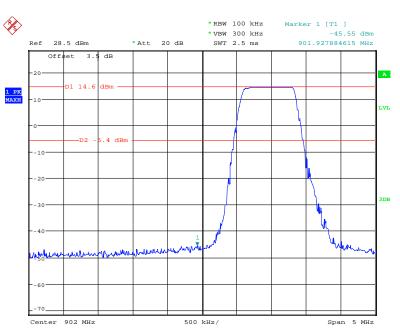
Temperature:	24 °C	
Relative Humidity:	53 %	
ATM Pressure:	110.0 kPa	

The testing was performed by Gavin Guo on 2020-05-18.

EUT operation mode: Transmitting

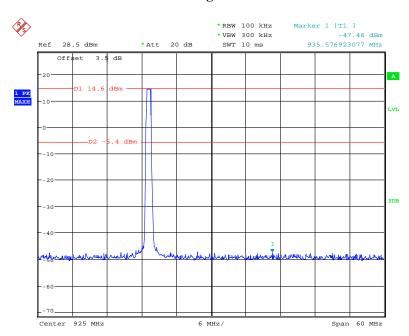
Test Result: Compliance

Please refer to the following plots.



Low Channel

High Channel



Date: 18.MAY.2020 15:22:21

Date: 18.MAY.2020 15:24:52

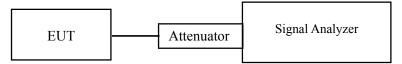
FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Test Procedure

- 1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
- 2. Set the RBW to: $3kHz \le RBW \le 100 kHz$.
- 3. Set the VBW $\geq 3 \times RBW$.
- 4. Set the span to 1.5 times the DTS bandwidth.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.



Test Data

Environmental Conditions

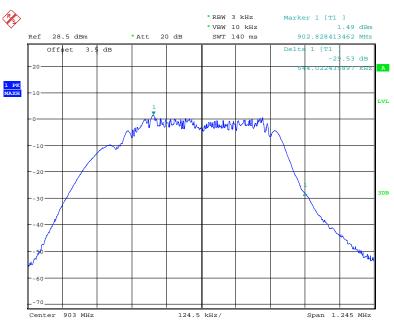
Temperature:	24 °C	
Relative Humidity:	53 %	
ATM Pressure:	110.0 kPa	

The testing was performed by Gavin Guo on 2020-05-18.

EUT operation mode: Transmitting

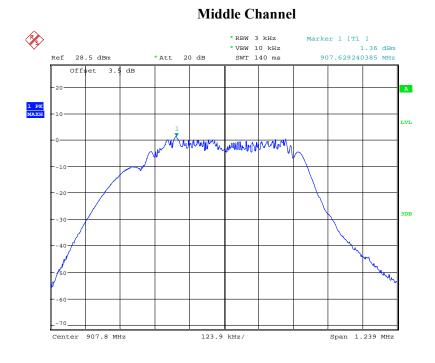
Test Result: Pass

Mode	Frequency (MHz)	Result (dBm/3kHz)	Limit (dBm/3kHz)
	903	1.49	<=8
DTS	907.8	1.36	<=8
	914.2	1.36	<=8

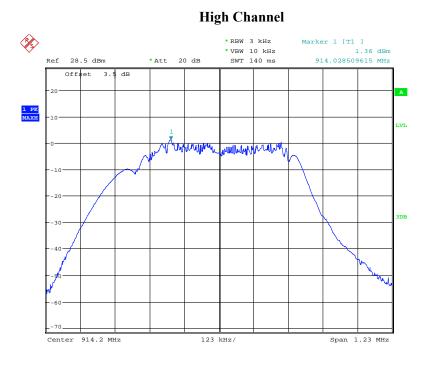


Low Channel

Date: 18.MAY.2020 15:32:48



Date: 18.MAY.2020 15:42:27



Date: 18.MAY.2020 15:18:57

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

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