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Report Template Version: V03 Report Template Revision Date: Mar.1st, 2017

Test Report

Report No.: CQASZ20180800067E-02

BRIGHT INDUSTRIES COMPANY LIMITED Applicant:

UNIT 16 17F GOLDEN ERA PLAZA NO 39-55 SAI YEE STREET MONG Address of Applicant:

KOK HONG KONG

DONG GUAN JIA SHENG LIGHTING TECHNOLOGY CO.,LTD Manufacturer:

Address of Manufacturer: Shutian Village, Humen Town, Dongguan City, Guangdong Province, China

Equipment Under Test (EUT):

Product: LED Lighting speaker All Model No.: FWS-17, FLM-17

Test Model No.: FWS-17 **Brand Name:** MoriMori FCC ID: 2AJ8KSP1701

Standards: 47 CFR Part 15, Subpart C Date of Test: 2018-08-17 to 2018-08-22

Date of Issue: 2018-08-22 Test Result: PASS*

Tested By:

(Daisy Qin)

Reviewed By:

(Aaron Ma

Approved By:



The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.

^{*} In the configuration tested, the EUT complied with the standards specified above.





1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20180800067E-02	Rev.01	Initial report	2018-08-22





2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2013	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2013	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS



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4 General Information

4.1 Client Information

Applicant:	BRIGHT INDUSTRIES COMPANY LIMITED
Address of Applicant:	UNIT 16 17F GOLDEN ERA PLAZA NO 39-55 SAI YEE STREET MONG KOK HONG KONG
Manufacturer:	DONG GUAN JIA SHENG LIGHTING TECHNOLOGY CO.,LTD
Address of Manufacturer:	Shutian Village, Humen Town, Dongguan City, Guangdong Province, China

4.2 General Description of EUT

Product Name:	LED Lighting speaker
All Model No.:	FWS-17, FLM-17
Test Model No.:	FWS-17
Trade Mark:	MoriMori
Hardware Version:	V2.1
Software Version:	V0.1
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V4.1
Modulation Type:	GFSK
Transfer Rate:	1Mbps
Number of Channel:	40
Product Type:	☐ Mobile ☐ Portable ☐ Fix Location
Test Software of EUT:	FCCAssist 2.4 (manufacturer declare)
Antenna Type:	PCB antenna
Antenna Gain:	-0.58dBi
EUT Power Supply:	lithium battery:DC3.7V, 1700mAh, Charge by DC5.0V

Note:

All model: FWS-17, FLM-17

Only the model FWS-17 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being color of appearance and model name.



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Operation F	Operation Frequency each of channel						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

Note

In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel (CH0)	2402MHz
The middle channel (CH19)	2440MHz
The highest channel (CH39)	2480MHz



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4.3 Test Environment

Operating Environment	Operating Environment:		
Temperature:	25.0 °C		
Humidity:	53 % RH		
Atmospheric Pressure:	1010mbar		
Test Mode:	Use FCCAssist 2.4 test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT. Note: In the process of transmitting of EUT, the duty cycle >98%.		

4.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Remark	FCC certification
PC	Lenovo	ThinkPad E450c	Provide by lab	FCC ID

4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CQA laboratory is reported:

Test	Range	Uncertainty	Notes
Radiated Emission	Below 1GHz	±5.12dB	(1)
Radiated Emission	Above 1GHz	±4.60dB	(1)
Conducted Disturbance	0.15~30MHz	±3.34dB	(1)

⁽¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.6 Test Location

Shenzhen Huaxia Testing Technology Co., Ltd,

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China



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4.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations: IC Registration No.: 22984-1

The 3m Semi-anechoic chamber of Shenzhen Huaxia Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

The test facility is recognized, certified, or accredited by the following organizations:

• CNAS (No. CNAS L5785)

CNAS has accredited Shenzhen Huaxia Testing Technology Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

A2LA (Certificate No. 4742.01)

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• FCC Registration No.: 522263

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

4.8 Deviation from Standards

None.

4.9 Other Information Requested by the Customer

None.





4.10Equipment List

			1	Instrument	Calibration
Item	Test Equipment	Manufacturer	Model No.	No.	Due Date
1	EMI Test Receiver	R&S	ESR7	CQA-005	2018/9/24
2	Spectrum analyzer	R&S	FSU26	CQA-038	2018/9/24
			AFS4-		
3	Preamplifier	MITEQ	00010300-18-	CQA-035	2018/9/24
			10P-4		
			AMF-6D-		
4	Preamplifier	MITEQ	02001800-29-	CQA-036	2018/9/24
			20P		
5	Loop antenna	Schwarzbeck	FMZB1516	CQA-087	2019/3/21
6	Bilog Antenna	R&S	HL562	CQA-011	2018/9/24
7	Horn Antenna	R&S	HF906	CQA-012	2018/9/24
8	Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2018/9/24
	Coax cable	004	DE 1 04	004.077	0040/0/04
9	(9KHz~40GHz)	CQA	RE-low-01	CQA-077	2018/9/24
40	Coax cable		DE LIVE OF	004.070	0040/0/04
10	(9KHz~40GHz)	CQA	RE-high-02	CQA-078	2018/9/24
11	Antenna Connector	CQA	RFC-01	CQA-080	2018/9/24
12	Power divider	CQA	PWD-2533- 02-SMA-79	CQA-067	2018/9/29
13	RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2018/9/24
14	EMI Test Receiver	R&S	ESPI3	CQA-005	2018/9/24
15	LISN	R&S	ENV216	CQA-003	2018/9/24
16	Coaxial cable (9KHz~300MHz)	CQA	N/A	CQA-C009	2018/10/17

Note:

The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.





5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

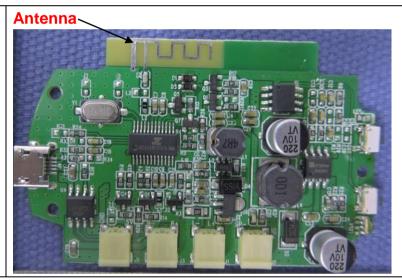
15.203 requirement:

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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:



The antenna is PCB antenna. The best case gain of the antenna is -0.58dBi.





5.2 Conducted Emissions

Toot Doguiroment	47 CED Dort 15C Spation 15 (207			
Test Requirement:	47 CFR Part 15C Section 15.207				
Test Method:	ANSI C63.10: 2009				
Test Frequency Range:	150kHz to 30MHz				
Limit:	Frequency range (MHz)	Limit (c	dBuV)		
	Troquency range (iii iz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarithm	n of the frequency.			
	 The mains terminal disturbance voltage test was conducted in a shielded room. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a 				
	single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2009 on conducted measurement.				
Test Setup:	Shielding Room EUT AC Mains LISN1	AE LISN2 → AC Ma Ground Reference Plane	Test Receiver		
Test Mode:	Transmitting with GFSK modu Charge +Transmitting mode.	ılation.			

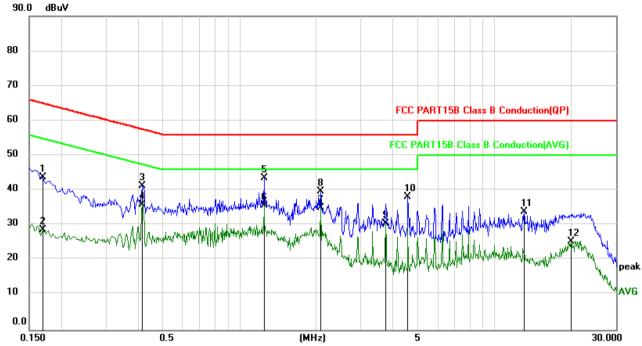




Test Results: Pass

Measurement Data



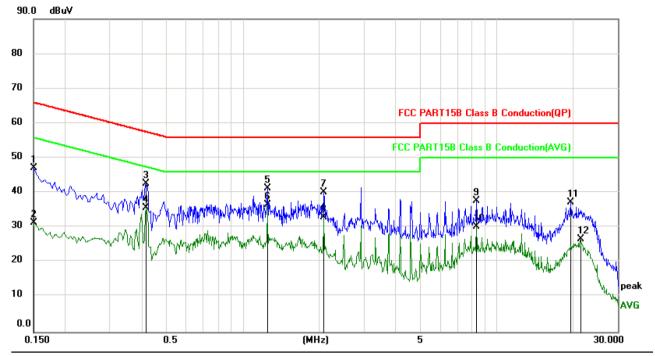


No. I	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1693	33.99	9.73	43.72	64.99	-21.27	peak	
2		0.1693	18.87	9.73	28.60	54.99	-26.39	AVG	
3		0.4171	31.58	9.74	41.32	57.51	-16.19	peak	
4		0.4171	26.08	9.74	35.82	47.51	-11.69	AVG	
5		1.2486	33.79	9.75	43.54	56.00	-12.46	peak	
6	*	1.2486	25.92	9.75	35.67	46.00	-10.33	AVG	
7		2.0767	25.30	9.76	35.06	46.00	-10.94	AVG	
8		2.0878	29.85	9.76	39.61	56.00	-16.39	peak	
9		3.7395	20.69	9.78	30.47	46.00	-15.53	AVG	
10		4.5734	28.43	9.78	38.21	56.00	-17.79	peak	
11	1	3.0573	23.98	9.82	33.80	60.00	-26.20	peak	
12	1	9.9500	15.34	9.89	25.23	50.00	-24.77	AVG	

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.

Neutral line:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1507	37.35	9.73	47.08	65.96	-18.88	peak	
2		0.1507	21.56	9.73	31.29	55.96	-24.67	AVG	
3		0.4171	32.98	9.74	42.72	57.51	-14.79	peak	
4		0.4171	26.00	9.74	35.74	47.51	-11.77	AVG	
5		1.2486	31.59	9.75	41.34	56.00	-14.66	peak	
6	*	1.2486	26.73	9.75	36.48	46.00	-9.52	AVG	
7		2.0878	30.36	9.76	40.12	56.00	-15.88	peak	
8		2.0878	23.13	9.76	32.89	46.00	-13.11	AVG	
9		8.3228	27.99	9.80	37.79	60.00	-22.21	peak	
10		8.3228	20.52	9.80	30.32	50.00	-19.68	AVG	
11		19.5316	27.32	9.88	37.20	60.00	-22.80	peak	
12		21.2595	16.70	9.88	26.58	50.00	-23.42	AVG	

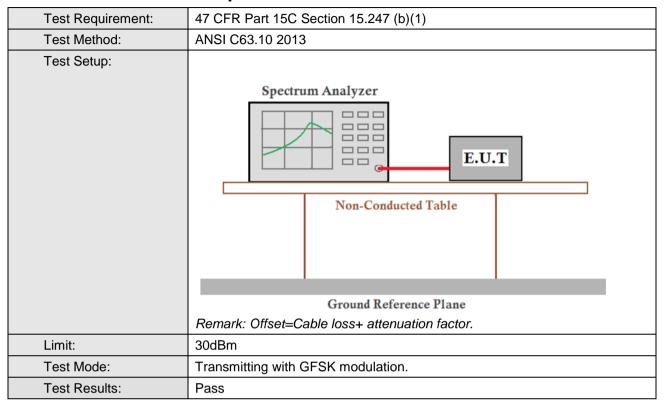
Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.





5.3 Conducted Peak Output Power

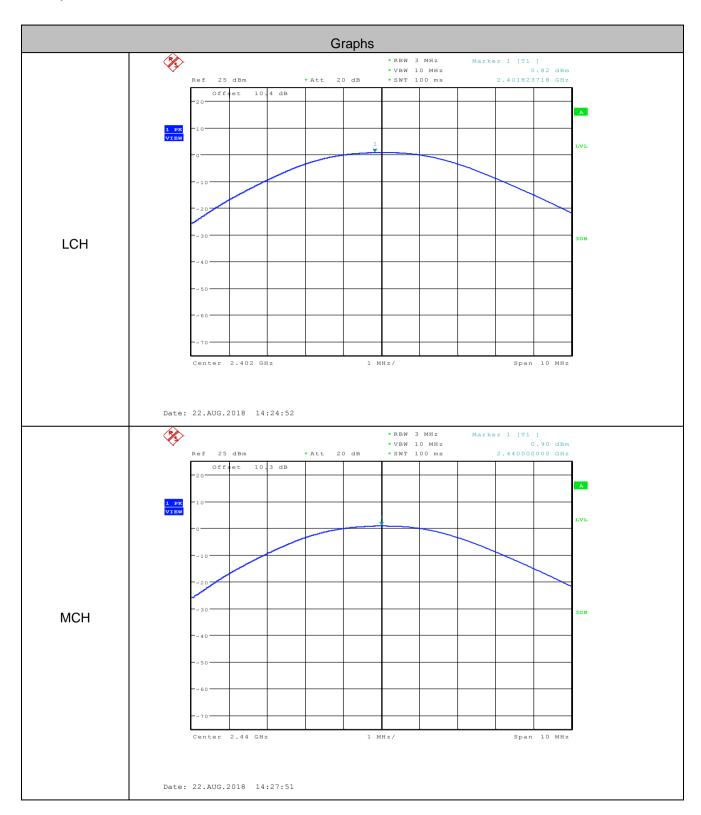


Measurement Data

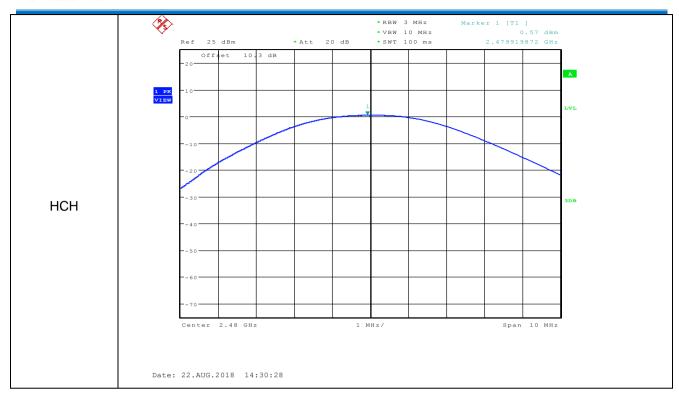
	GFSK mode									
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result							
Lowest	0.82	30.00	Pass							
Middle	0.9	30.00	Pass							
Highest	0.57	30.00	Pass							



Test plot as follows:

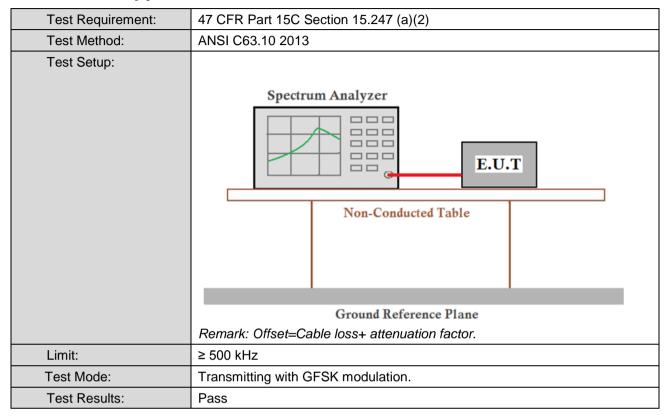








5.4 6dB Occupy Bandwidth

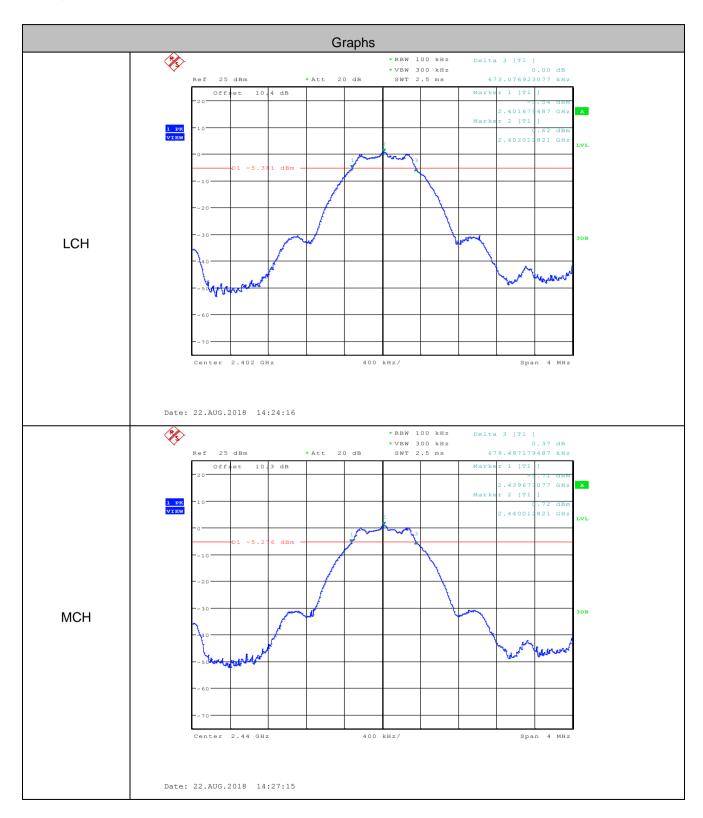


Measurement Data

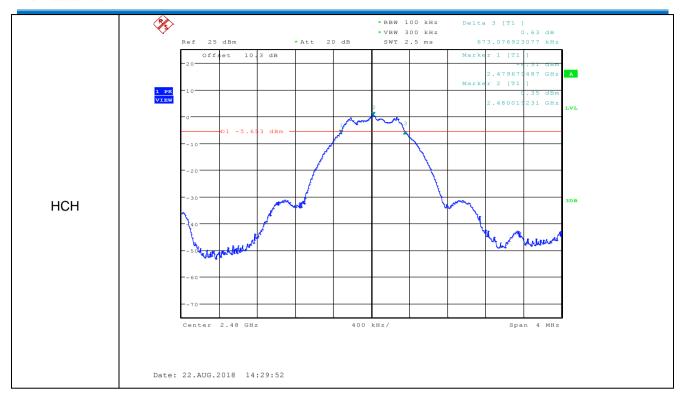
GFSK mode									
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result						
Lowest	0.673	≥500	Pass						
Middle	0.679	≥500	Pass						
Highest	0.673	≥500	Pass						



Test plot as follows:

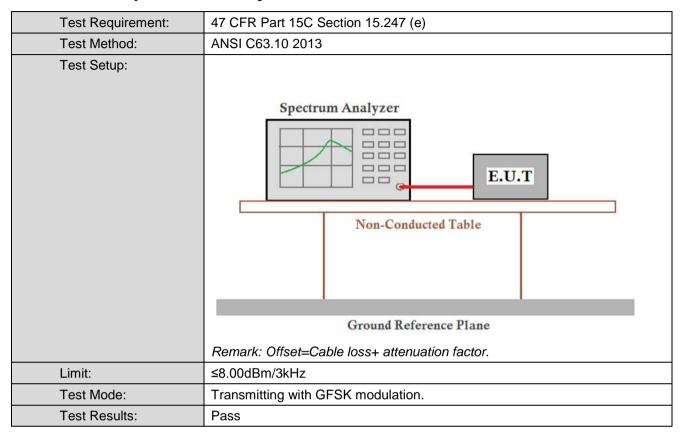








5.5 Power Spectral Density

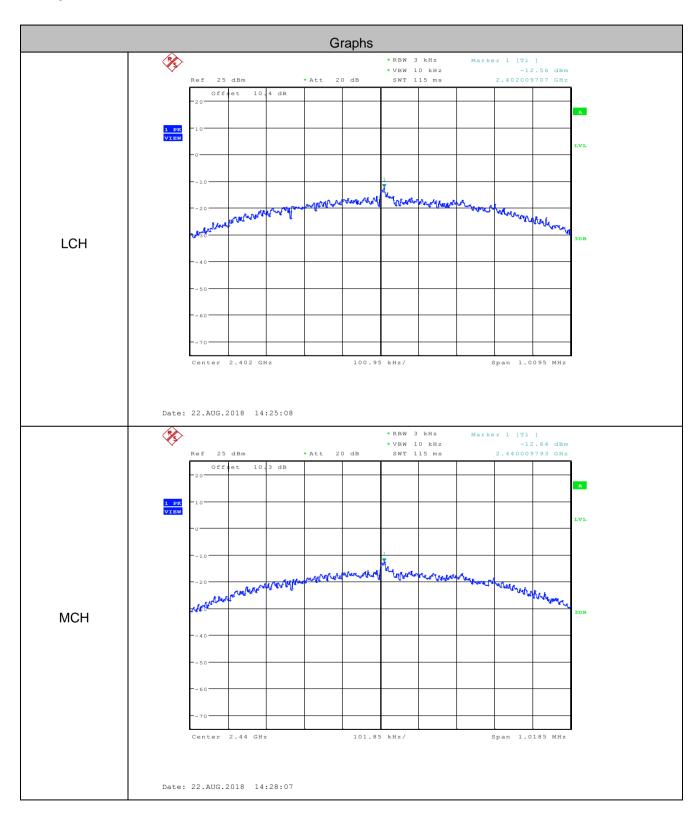


Measurement Data

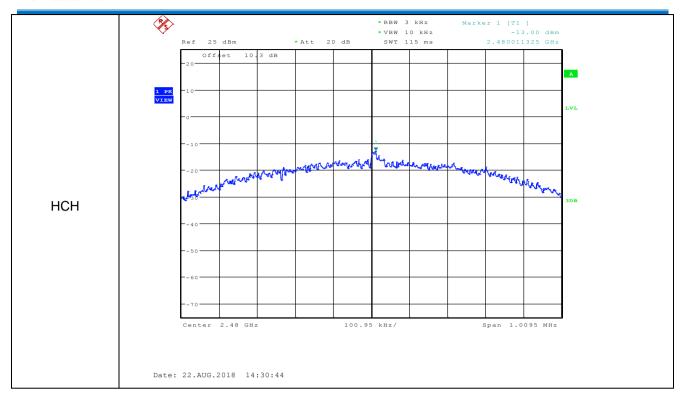
Mcasarcinent Data									
GFSK mode									
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result						
Lowest	-12.560	≤8.00	Pass						
Middle	-12.640	≤8.00	Pass						
Highest	-13.000	≤8.00	Pass						



Test plot as follows:



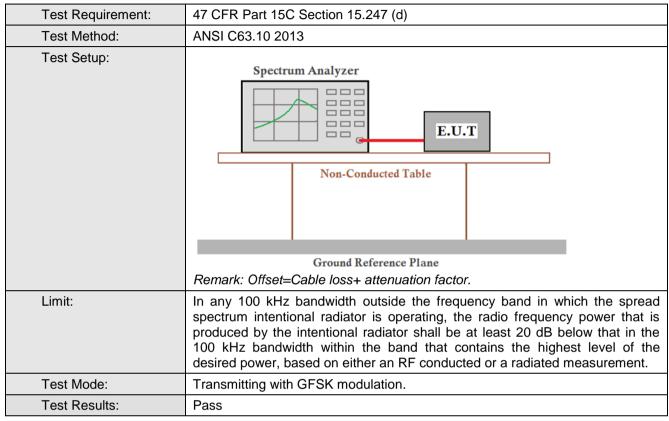








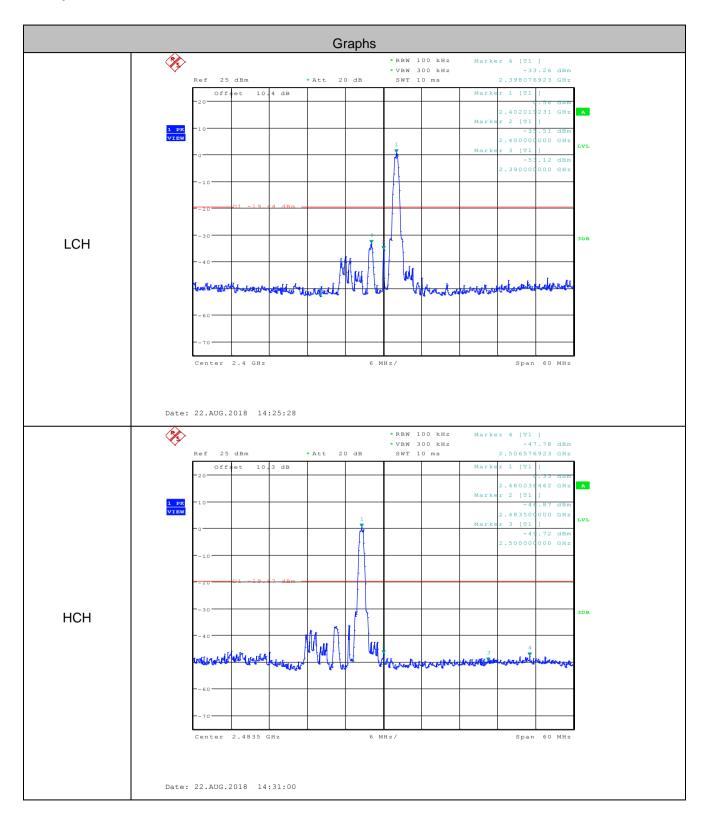
5.6 Band-edge for RF Conducted Emissions



GFSK mode										
Test		Emissis a Laval/dDm	Line:t/dDine	Daguit						
channel	Frequency(MHz)	Emission Level(dBm)	Limit(dBm)	Result						
Lowest	2400	-35.510	-19.44	Pass						
Highest	2483.5	-46.870	-19.67	Pass						



Test plot as follows:





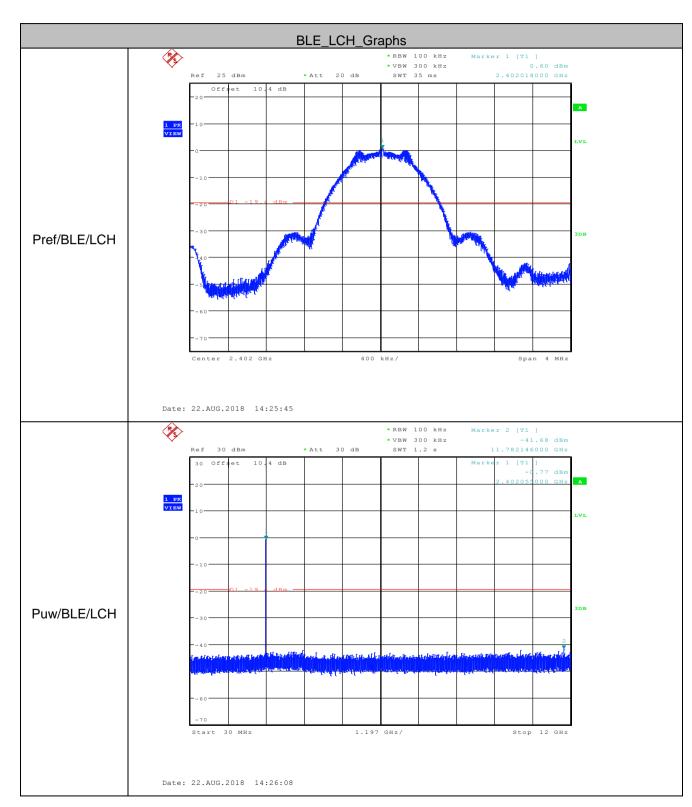


5.7 Spurious RF Conducted Emissions

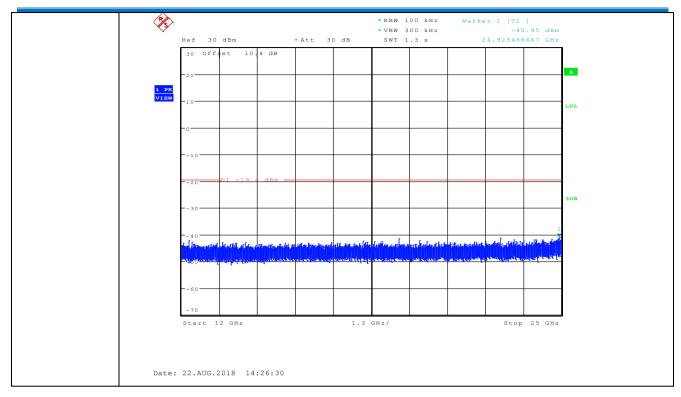
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2013
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: Offset=Cable loss+ attenuation factor.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional 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.
Test Mode:	Transmitting with GFSK modulation.
Instruments Used:	Refer to section 5.11 for details.
Test Results:	Pass

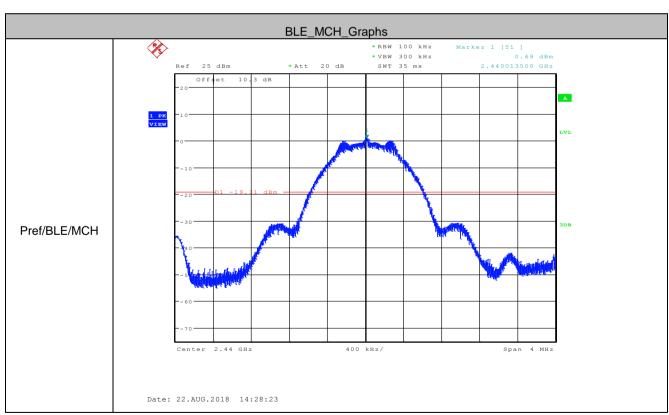


Test plot as follows:

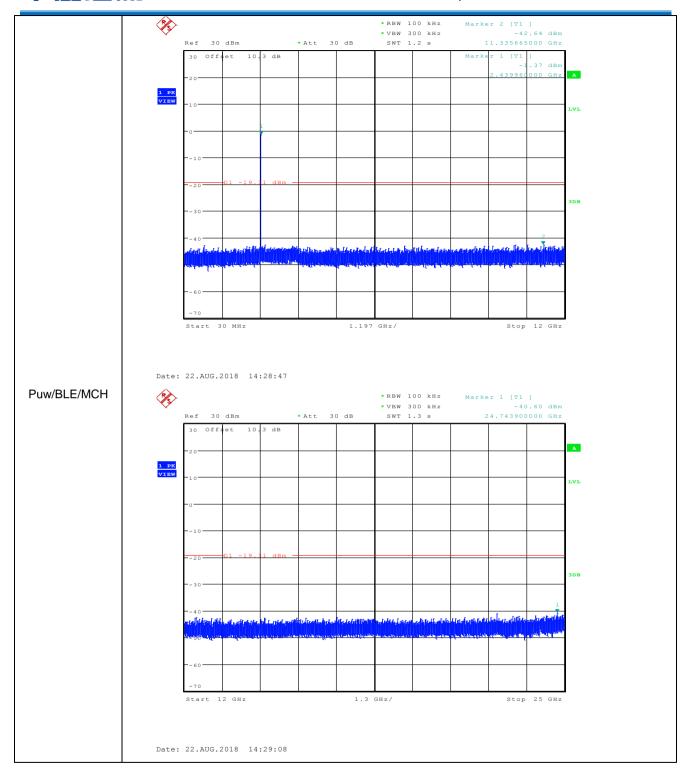




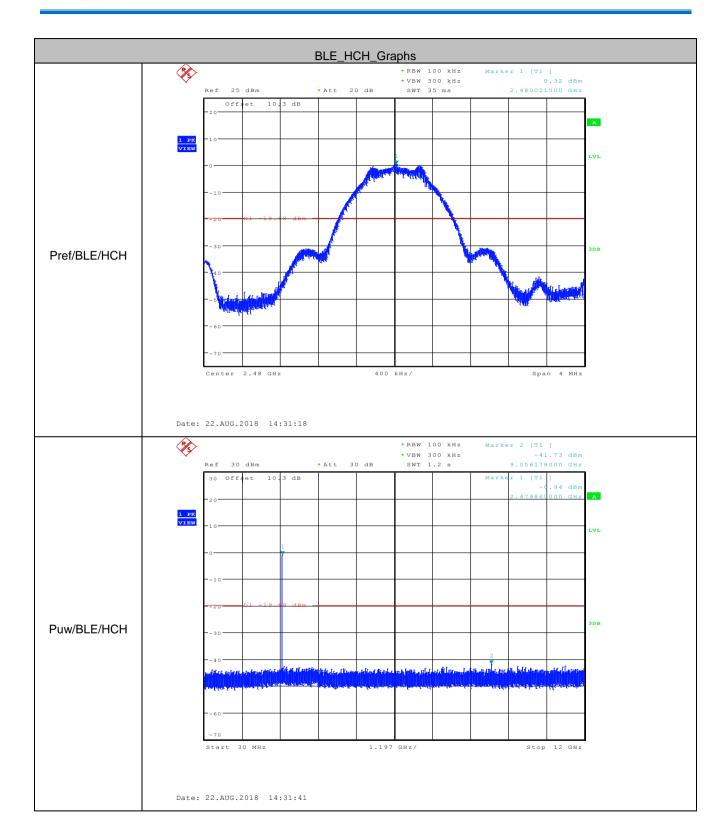






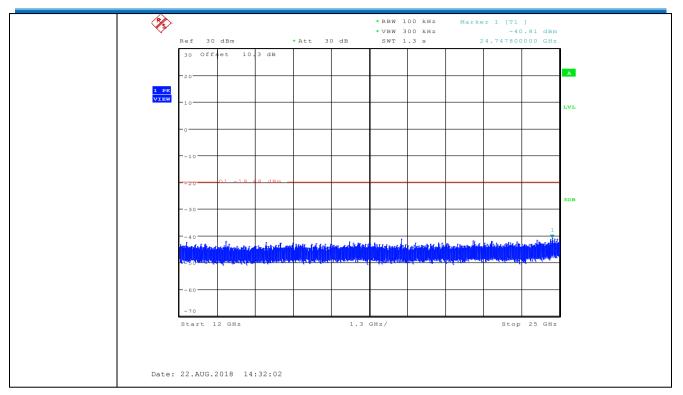








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Remark:

Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.



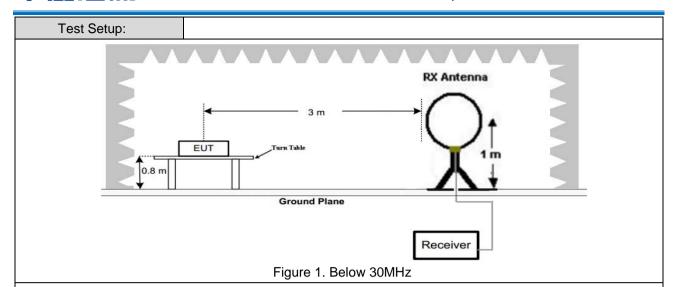


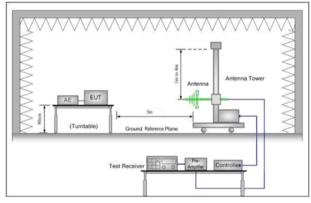
5.8 Radiated Spurious Emission & Restricted bands

5.8.1 Spurious Emissions											
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205										
Test Method:	ANSI C63.10 2013										
Test Site:	Measurement Distance	: 3m	n (Semi-Anech	noic Cham	ber	-)					
Receiver Setup:	Frequency De		Detector	RBW		VBW	Remark				
	0.009MHz-0.090MH	z	Peak	10kHz	<u>z</u>	30kHz	Peak				
	0.009MHz-0.090MH	Z	Average	10kHz	<u>z</u>	30kHz	Average				
	0.090MHz-0.110MH	Z	Quasi-peak	10kHz	<u>z</u>	30kHz	Quasi-peak				
	0.110MHz-0.490MH	Z	Peak	10kHz	<u>z</u>	30kHz	Peak				
	0.110MHz-0.490MH	Z	Average	10kHz	Z	30kHz	Average				
	0.490MHz -30MHz		Quasi-peak	10kHz	Z	30kHz	Quasi-peak				
	30MHz-1GHz		Quasi-peak	100 kH	lz	300kHz	Quasi-peak				
	AL 4011		Peak	1MHz	<u>'</u>	3MHz	Peak				
	Above 1GHz		Peak	1MHz	<u>-</u>	10Hz	Average				
Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)		Remark	Measuremen distance (m)				
	0.009MHz-0.490MHz	2	400/F(kHz)	-		-	300				
	0.490MHz-1.705MHz	24	1000/F(kHz)	-		-	30				
	1.705MHz-30MHz		30	-		-	30				
	30MHz-88MHz		100	40.0	Q	uasi-peak	3				
	88MHz-216MHz		150	43.5	Q	uasi-peak	3				
	216MHz-960MHz		200	46.0	Q	uasi-peak	3				
	960MHz-1GHz 500		500	54.0	Q	uasi-peak	3				
	Above 1GHz 500 54.0 Average					3					
	Note: 15.35(b), frequency emissions is limit applicable to the epeak emission level race	20d quip	IB above the loment under t	maximum est. This p	per	mitted ave	rage emission				



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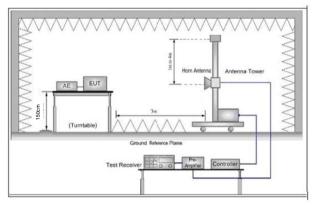


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

Test Procedure:

- a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

Note: For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

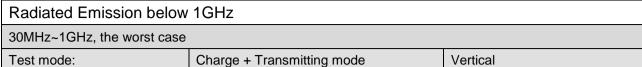
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the

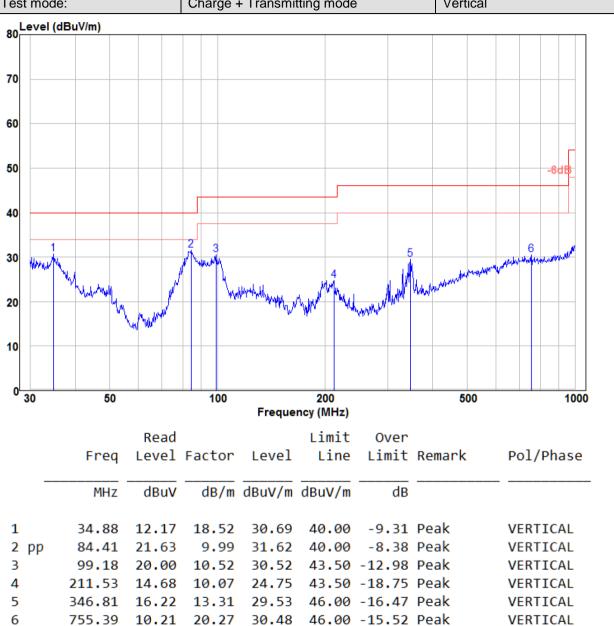


	measurement.
	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
	g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
	i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test	Transmitting with GFSK modulation.
Mode:	Transmitting mode, Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation.
	Pretest the EUT at Transmitting mode and Charge + Transmitting mode, found the Charge + Transmitting mode which it is worse case.
	For below 1GHz part, through pre-scan, the worst case is the middle channel.
	Only the worst case is recorded in the report.
Test Results:	Pass



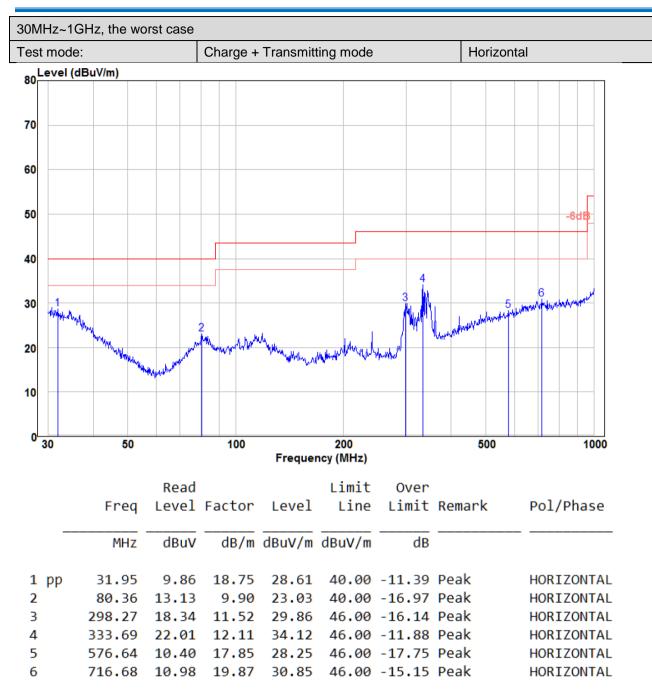
















Transmitter Emission above 1GHz

Worse case m	ode:	GFSK		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
2390	54.61	-9.2	45.41	74	-28.59	Peak	Н
2400	56.64	-9.39	47.25	74	-26.75	Peak	Н
4804	51.48	-4.33	47.15	74	-26.85	Peak	Н
7206	48.39	1.01	49.40	74	-24.60	Peak	Н
2390	54.10	-9.2	44.90	74	-29.10	Peak	V
2400	51.27	-9.39	41.88	74	-32.12	Peak	V
4804	54.69	-4.33	50.36	74	-23.64	Peak	V
7206	49.88	1.01	50.89	74	-23.11	Peak	V

Worse case m	ode:	GFSK		Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
4880	51.31	-4.11	47.20	74	-26.80	peak	Н
7320	50.32	1.51	51.83	74	-22.17	peak	Н
4880	51.27	-4.11	47.16	74	-26.84	peak	V
7320	50.45	1.51	51.96	74	-22.04	peak	V

Worse case m	ode:	GFSK		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
2483.5	56.06	-9.29	46.77	74	-27.23	Peak	Н
4960	53.21	-4.04	49.17	74	-24.83	Peak	Н
7440	48.65	1.57	50.22	74	-23.78	Peak	Н
2483.5	55.89	-9.29	46.60	74	-27.40	Peak	V
4960	49.89	-4.04	45.85	74	-28.15	Peak	V
7440	48.93	1.57	50.50	74	-23.50	Peak	V

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 - Final Test Level =Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

6 Photographs - EUT Test Setup

6.1 Radiated Spurious Emission

9KHz~30MHz:

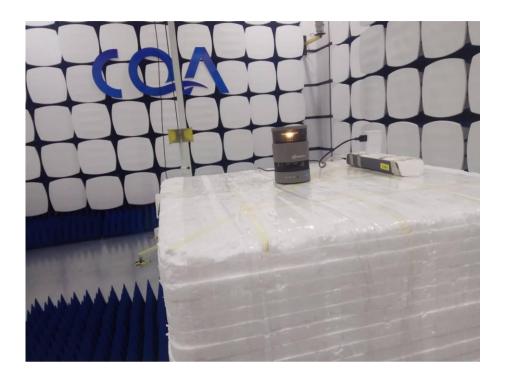


30MHz~1GHz:





Above 1GHz:



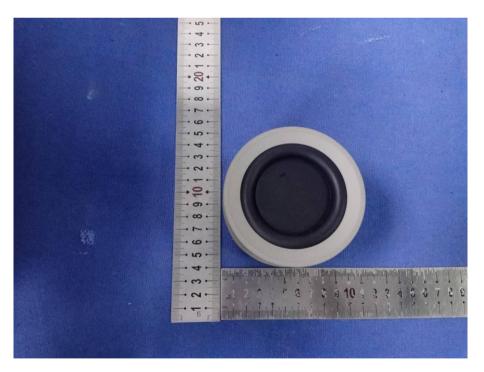
6.2 Conducted Emission



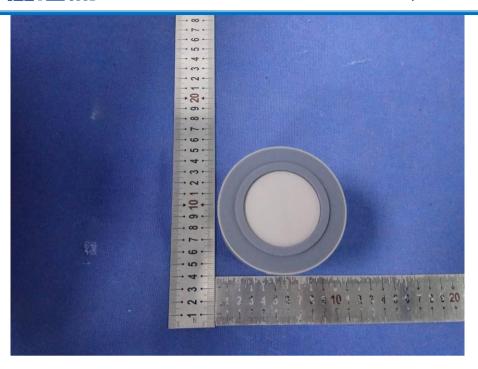


7 Photographs - EUT Constructional Details





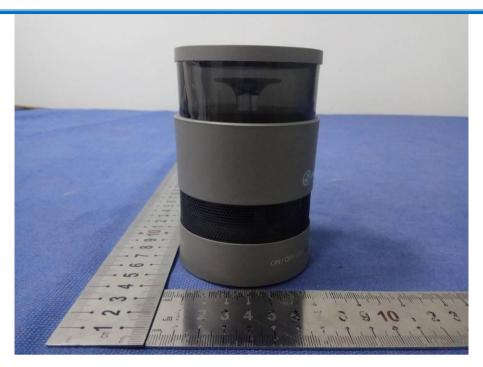


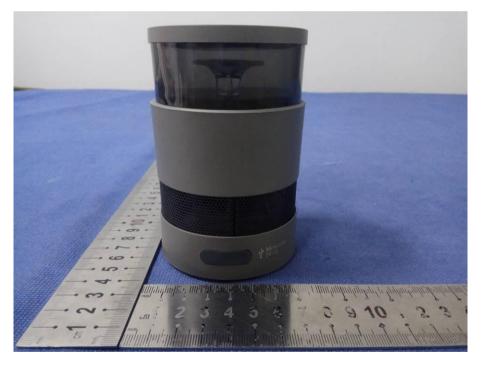






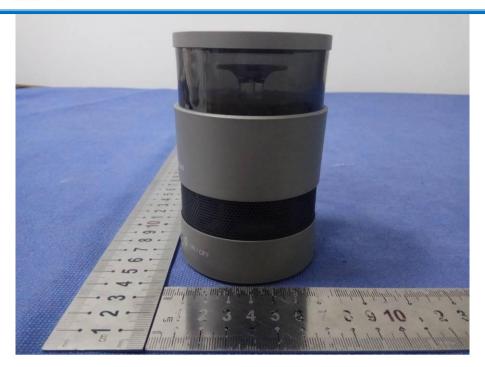








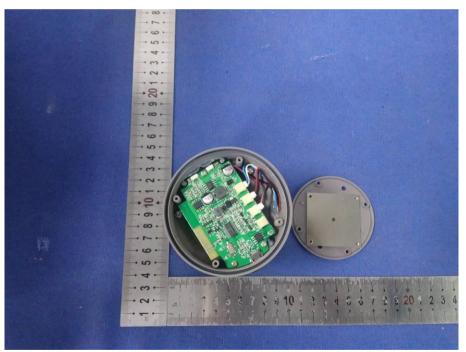








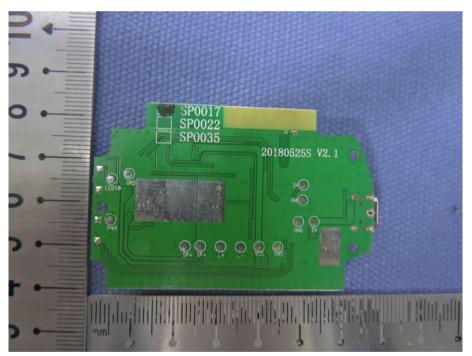








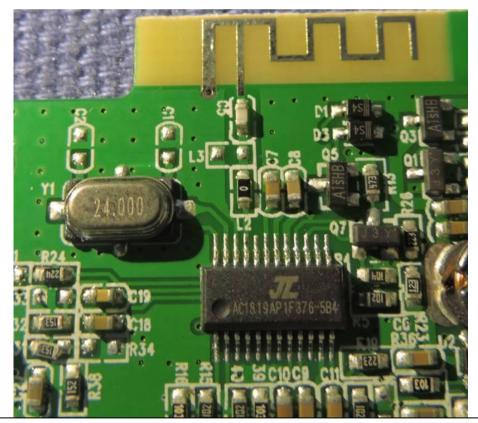












The End