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

# **Test Report**

Report No. :	CQASZ20181200049E-02	
Applicant:	GolfzonDeca Inc.	
Address of Applicant:	98, Yatap-ro, Bundang-Gu, Seongnam-si, Gyeonggi-do,13517, South Korea	
Manufacturer:	GolfzonDeca Inc.	
Address of Manufacturer: 98, Yatap-ro, Bundang-Gu, Seongnam-si, Gyeonggi-do,13517, South		
Factory: Shenzhen Huaxin Communication Co., Ltd.		
Address of Factory:	5/F, Building B5, Xujingchang Industrial Park, No. 39, Haoye Road, Xinhe Community, Fuhai Street, Baoan District, Shenzhen, Guangdong, P.R. China	

#### Equipment Under Test (EUT):

Product:	Golf Rangefinder
Model No.:	AIMV10
Brand Name:	GOLFBUDDY
FCC ID:	2ALG4AIMV10
Standards:	47 CFR Part 15, Subpart C
Date of Test:	2019-01-04 to 2019-01-15
Date of Issue:	2019-01-15
Test Result :	PASS*

Tested By: (Daisy Qin) "ON **Reviewed By:** Aaron Ma ) PPROV Approved By: ( Jack Ai

\* In the configuration tested, the EUT complied with the standards specified above.

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.



## 1 Version

### **Revision History Of Report**

Report No.	Version	Description	Issue Date
CQASZ20181200049E-02	Rev.01	Initial report	2019-01-15



## 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	ower 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:	GolfzonDeca Inc.	
Address of Applicant:	98, Yatap-ro, Bundang-Gu, Seongnam-si, Gyeonggi-do,13517, South Korea	
Manufacturer:	GolfzonDeca Inc.	
Address of Manufacturer:	98, Yatap-ro, Bundang-Gu, Seongnam-si, Gyeonggi-do,13517, South Korea	
Factory:	Shenzhen Huaxin Communication Co., Ltd.	
Address of Factory:	5/F, Building B5, Xujingchang Industrial Park, No. 39, Haoye Road, Xinhe Community, Fuhai Street, Baoan District, Shenzhen, Guangdong, P.R. China	

## 4.2 General Description of EUT

Product Name:	Golf Rangefinder	
Test Model No.:	AIMV10	
Trade Mark:	GOLFBUDDY	
Hardware Version:	GOLFBUDDY_V10_20181228	
Software Version:	V10_MB_V2.0_20181129	
Operation Frequency:	2402MHz~2480MHz	
Bluetooth Version:	V4.0	
Modulation Type: GFSK		
Transfer Rate:	1Mbps	
Number of Channel:	40	
Product Type:	Mobile      Portable      Fix Location	
Test Software of EUT:	Maui META-bulid 7.1504.0 (manufacturer declare)	
Antenna Type:	Integral antenna	
Antenna Gain:	1.88dBi	
EUT Power Supply:	lithium battery:DC4.35V, Charge by DC5.0V	



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



### 4.3 Test Environment

Operating Environment	Operating Environment:		
Temperature:	25.0 °C		
Humidity:	53 % RH		
Atmospheric Pressure:	1010mbar		
Test Mode:	Use 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	ID
Adapter	Samsung	EP-TA50CBC	Provide by lab	Verification



### 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.

No.	Item	Uncertainty	Notes
1	Radiated Emission (Below 1GHz)	±5.12dB	(1)
2	Radiated Emission (Above 1GHz)	±4.60dB	(1)
3	Conducted Disturbance (0.15~30MHz)	±3.34dB	(1)
4	Radio Frequency	3×10 <sup>-8</sup>	(1)
5	Duty cycle	0.6 %.	(1)
6	Occupied Bandwidth	1.1%	(1)
7	RF conducted power	0.86dB	(1)
8	RF power density	0.74	(1)
9	Conducted Spurious emissions	0.86dB	(1)
10	Temperature test	<b>0.8</b> ℃	(1)
11	Humidity test	2.0%	(1)
12	Supply voltages	0.5 %.	(1)
13	time	0.6 %.	(1)
14	Frequency Error	5.5 Hz	(1)

Hereafter the best measurement capability for CQA laboratory is reported:

(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

### 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

			Instrument	Calibration	Calibration
Test Equipment	Manufacturer	Model No.	No.	Date	Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2018/9/26	2019/9/25
Spectrum analyzer	R&S	FSU26	CQA-038	2018/10/28	2019/10/27
Preamplifier	MITEQ	AFS4-00010300-18-10P- 4	CQA-035	2018/9/26	2019/9/25
Preamplifier	MITEQ	AMF-6D-02001800-29- 20P	CQA-036	2018/11/2	2019/11/1
Loop antenna	Schwarzbeck	FMZB1516	CQA-087	2018/10/28	2020/10/27
Bilog Antenna	R&S	HL562	CQA-011	2018/9/26	2020/9/25
Horn Antenna	R&S	HF906	CQA-012	2018/9/26	2020/9/25
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2018/9/26	2020/9/25
Coaxial Cable (Above 1GHz)	CQA	N/A	C019	2018/9/26	2019/9/25
Coaxial Cable (Below 1GHz)	CQA	N/A	C020	2018/9/26	2019/9/25
Antenna Connector	CQA	RFC-01	CQA-080	2018/9/26	2019/9/25
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2018/9/26	2019/9/25
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2018/9/26	2019/9/25
EMI Test Receiver	R&S	ESPI3	CQA-013	2018/9/26	2019/9/25
LISN	R&S	ENV216	CQA-003	2018/11/5	2019/11/4
Coaxial cable	CQA	N/A	CQA-C009	2018/9/26	2019/9/25

#### 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 integral antenna. The best case gain of the antenna is 1.88dBi.

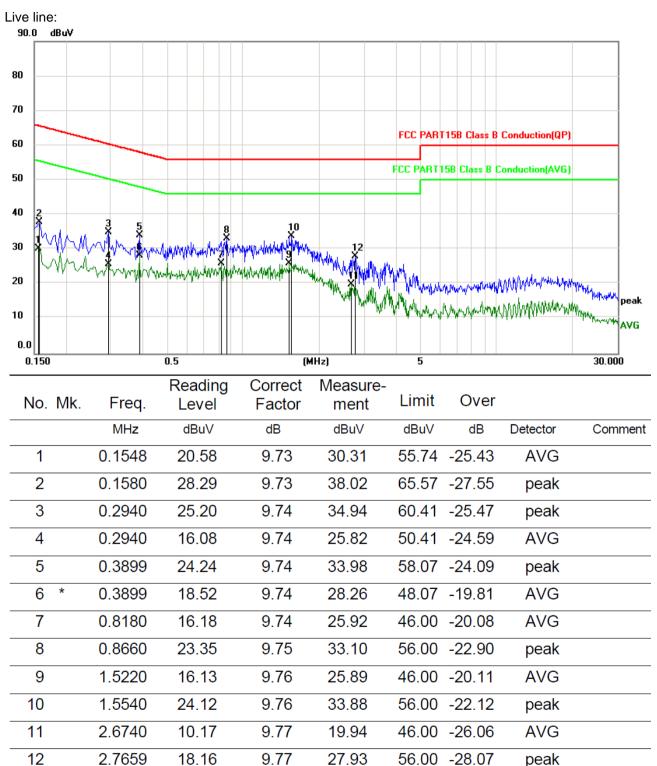


5.2	Conducted	Emissions
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Test Requirement:       47 CFR Part 15C Section 15.207         Test Method:       ANSI C63.10: 2013         Test Frequency Range:       150kHz to 30MHz         Limit:       Frequency range (MHz)         0.15-0.5       0.5-5         5-30       * Decreases with the logarithm of the logarithm of the room.         Test Procedure:       1) The mains terminal disturbance room.         2) The EUT was connected to A Impedance Stabilization Network	Limit (d Quasi-peak 66 to 56* 56 60 the frequency.	BuV) Average 56 to 46* 46 50	
Test Frequency Range:       150kHz to 30MHz         Limit:       Frequency range (MHz)         0.15-0.5       0.5-5         5-30       * Decreases with the logarithm of the logarithm o	Quasi-peak66 to 56*566060the frequency.	Average 56 to 46* 46	-
Limit: Frequency range (MHz) 0.15-0.5 0.5-5 5-30 * Decreases with the logarithm of the room. 2) The EUT was connected to A Impedance Stabilization Network	Quasi-peak66 to 56*566060the frequency.	Average 56 to 46* 46	-
0.15-0.5       0.5-5       5-30       * Decreases with the logarithm of the	Quasi-peak66 to 56*566060the frequency.	Average 56 to 46* 46	•
0.5-5         5-30         * Decreases with the logarithm of the logarithm o	66 to 56*           56           60           the frequency.	56 to 46* 46	-
0.5-5         5-30         * Decreases with the logarithm of the logarithm o	60 the frequency.		
* Decreases with the logarithm of the second s	the frequency.	50	
Test Procedure:       1) The mains terminal disturbance room.         2) The EUT was connected to A Impedance Stabilization Network	· · ·		
room. 2) The EUT was connected to A Impedance Stabilization Networ	ce voltage test was		1
<ul> <li>impedance. The power cable connected to a second LISN 2, plane in the same way as the multiple socket outlet strip was single LISN provided the rating</li> <li>3) The tabletop EUT was placed or ground reference plane. And for placed on the horizontal ground</li> <li>4) The test was performed with a with the EUT shall be 0.4 m from vertical ground reference plane. The LISN 1 with under test and bonded mounted on top of the ground reference plane. The LISN 1 with and associated equipment was</li> <li>5) In order to find the maximum er and all of the interface cables maximum er and end to the cables of the term er and end to the cables of the term er and end to the term</li></ul>	vork) which provides oles of all other u 2, which was bonded the LISN 1 for the s used to connect m g of the LISN was no d upon a non-metal for floor-standing an ind reference plane. In vertical ground refer m the vertical ground ane was bonded to was placed 0.8 m for d to a ground refer reference plane. The N 1 and the EUT. A is at least 0.8 m from emission, the relative s must be changed a	through a LISN 1 a $50\Omega/50\mu$ H + $5\Omega$ I units of the EUT d to the ground refer unit being measure nultiple power cables ot exceeded. lic table 0.8m above rangement, the EUT erence plane. The re- nd reference plane. o the horizontal gr from the boundary of erence plane for L his distance was betw II other units of the n the LISN 2. ve positions of equip	(Line inear were ence ed. A s to a e the was e the was of The ound of the ISNs ween EUT
Test Setup:	LISN2 + AC Main	Test Receiver	
Test Mode: Transmitting with GFSK modulation	on. Charge +Transi	mitting mode.	
Test Results: Pass			



#### **Measurement Data**



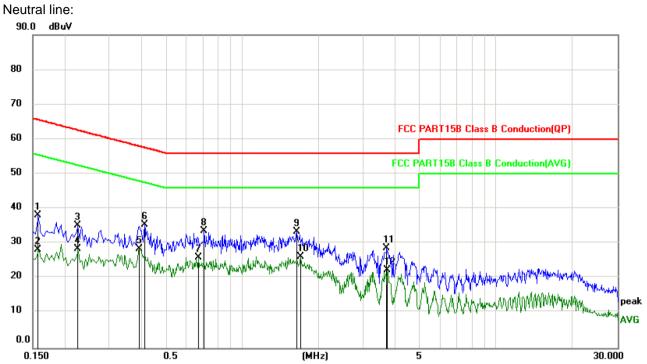
#### Remark:

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.





			-	-				
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1580	28.44	9.79	38.23	65.57	-27.34	peak	
2	0.1580	18.35	9.79	28.14	55.57	-27.43	AVG	
3	0.2260	25.46	9.80	35.26	62.60	-27.34	peak	
4	0.2260	18.56	9.80	28.36	52.60	-24.24	AVG	
5 *	0.3940	18.63	9.80	28.43	47.98	-19.55	AVG	
6	0.4140	25.62	9.80	35.42	57.57	-22.15	peak	
7	0.6740	16.09	9.80	25.89	46.00	-20.11	AVG	
8	0.7100	23.83	9.80	33.63	56.00	-22.37	peak	
9	1.6420	23.50	9.85	33.35	56.00	-22.65	peak	
10	1.7020	16.28	9.86	26.14	46.00	-19.86	AVG	
11	3.7140	18.77	9.82	28.59	56.00	-27.41	peak	
12	3.7220	12.64	9.82	22.46	46.00	-23.54	AVG	

#### Remark:

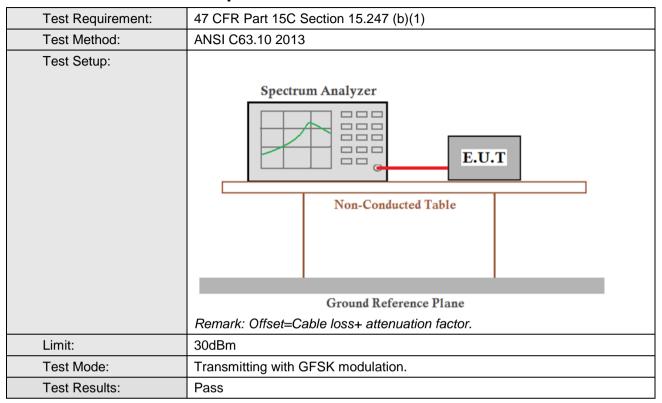
1. The following Quasi-Peak and Average measurements were performed on the EUT:

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

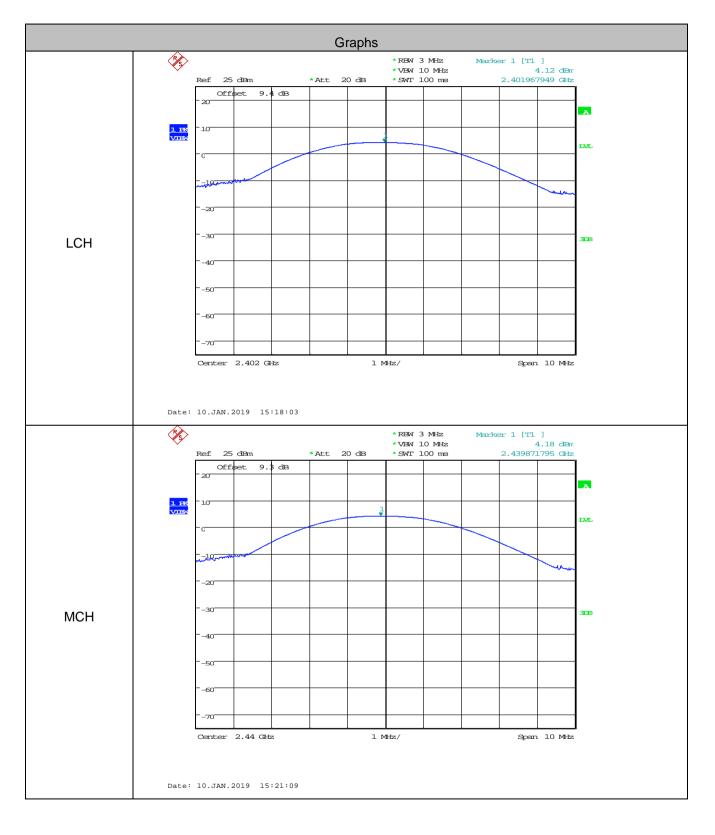


#### Measurement Data

GFSK mode					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	4.12	30.00	Pass		
Middle	4.18	30.00	Pass		
Highest	4.04	30.00	Pass		



#### Test plot as follows:

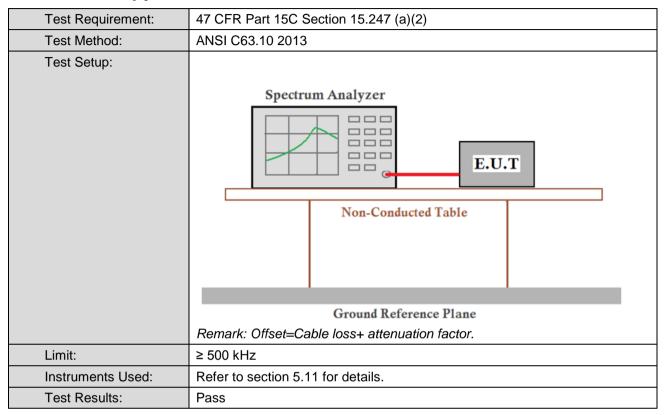








### 5.4 6dB Occupy Bandwidth

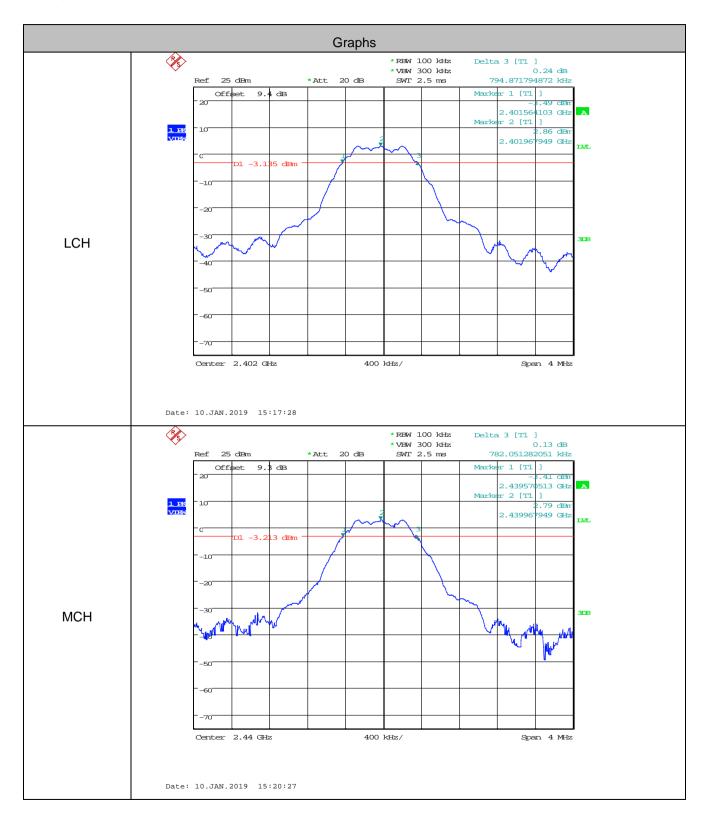


#### **Measurement Data**

	GFSK mode		
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	0.795	≥500	Pass
Middle	0.782	≥500	Pass
Highest	0.769	≥500	Pass



#### Test plot as follows:

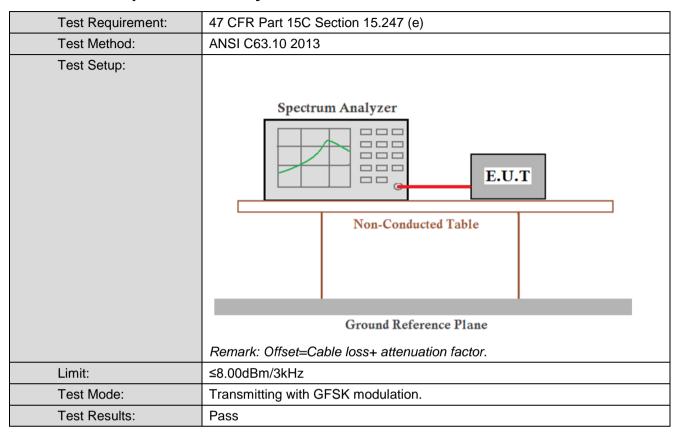








### 5.5 Power Spectral Density

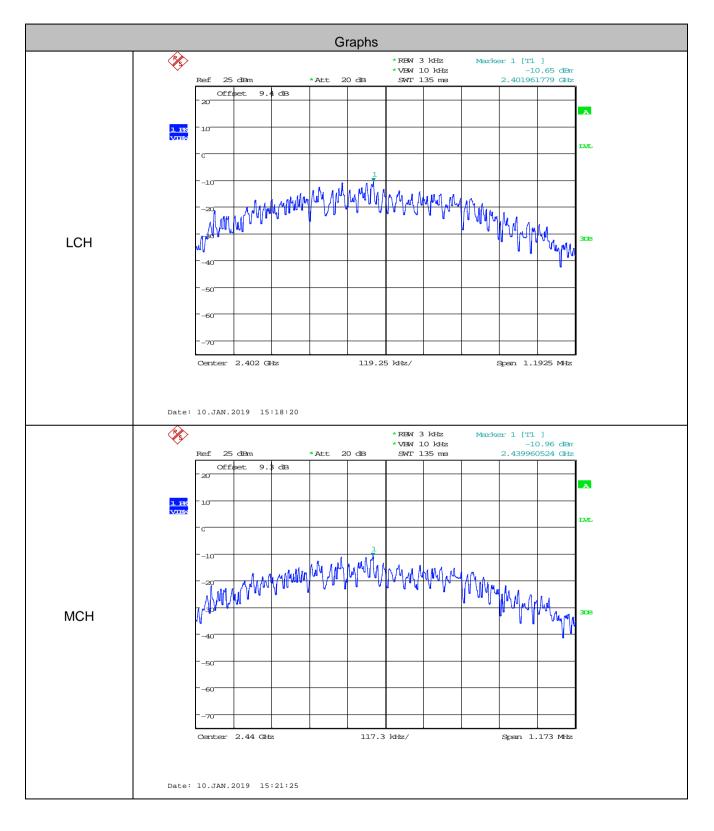


#### **Measurement Data**

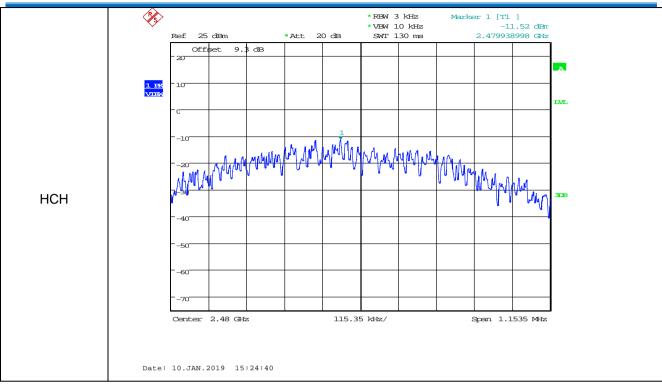
	GFSK mode		
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-10.650	≤8.00	Pass
Middle	-10.960	≤8.00	Pass
Highest	-11.520	≤8.00	Pass



#### Test plot as follows:

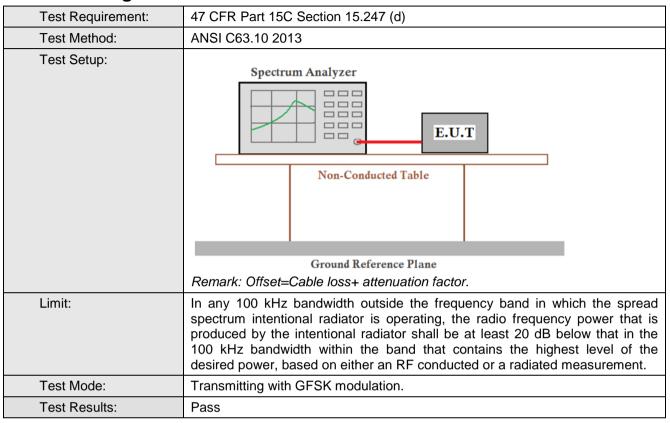








### 5.6 Band-edge for RF Conducted Emissions

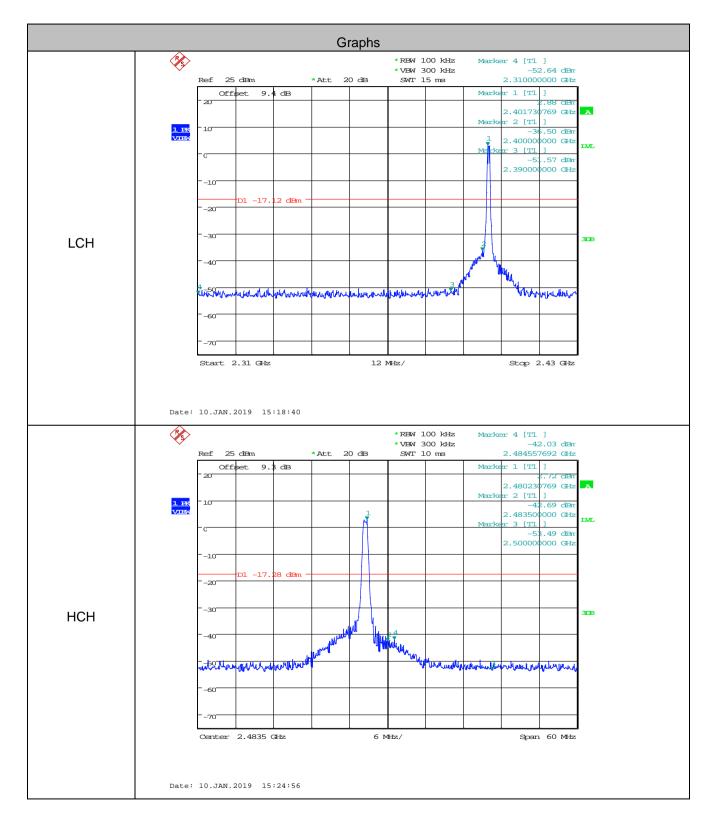


GFSK mode				
Test channel	Frequency(MHz)	Emission Level(dBm)	Limit(dBm)	Result
Lowest	2400	-36.500	-17.12	Pass
Highest	2483.5	-42.690	-17.28	Pass

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1 ugo.z i	01 10



#### Test plot as follows:



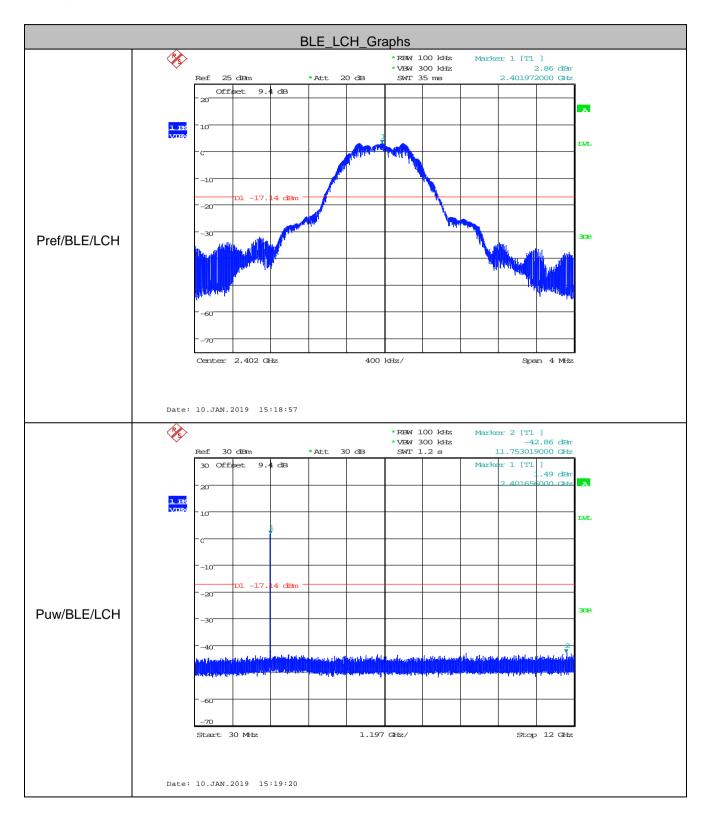


## 5.7 Spurious RF Conducted Emissions

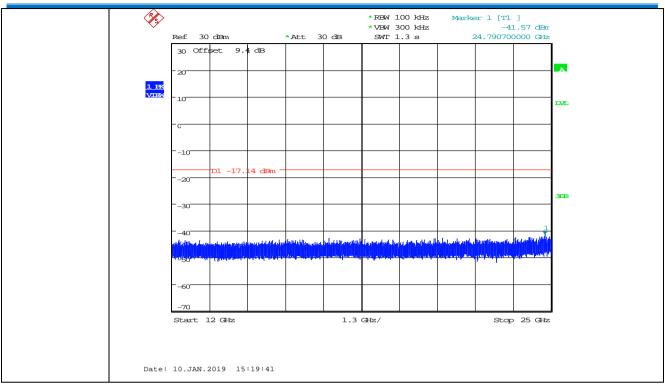
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2013
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
	Remark: Offset=Cable loss+ attenuation factor.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional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

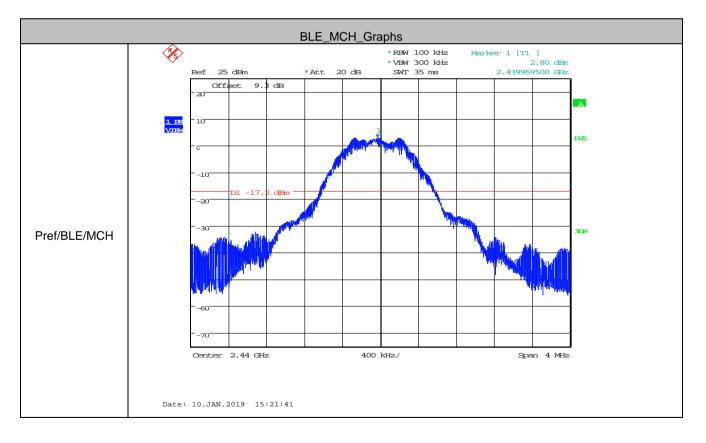


#### Test plot as follows:

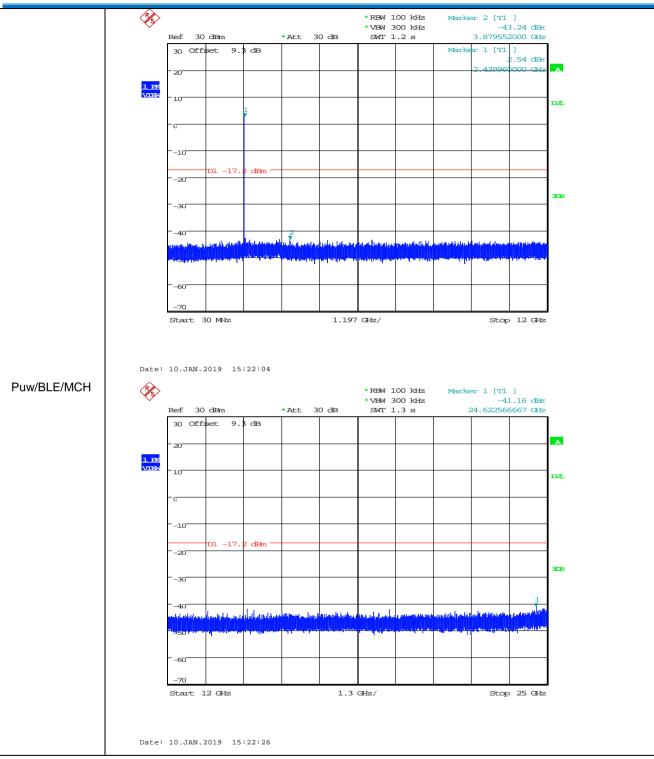




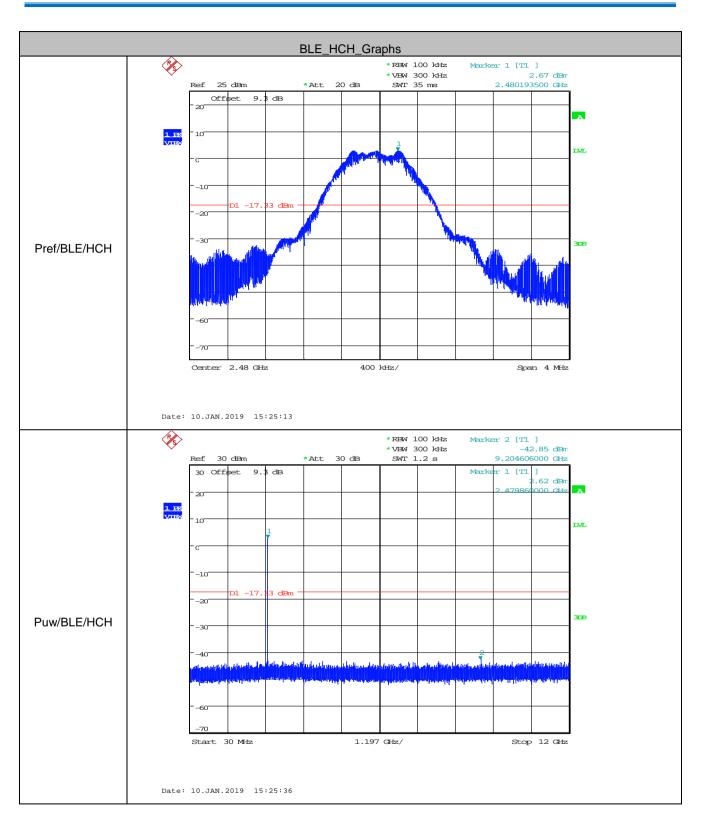






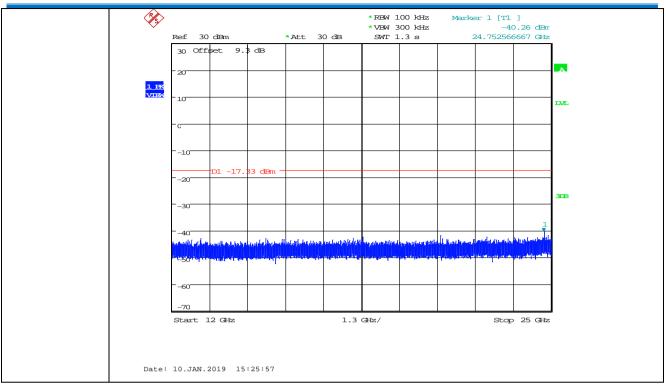








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#### Remark:

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.

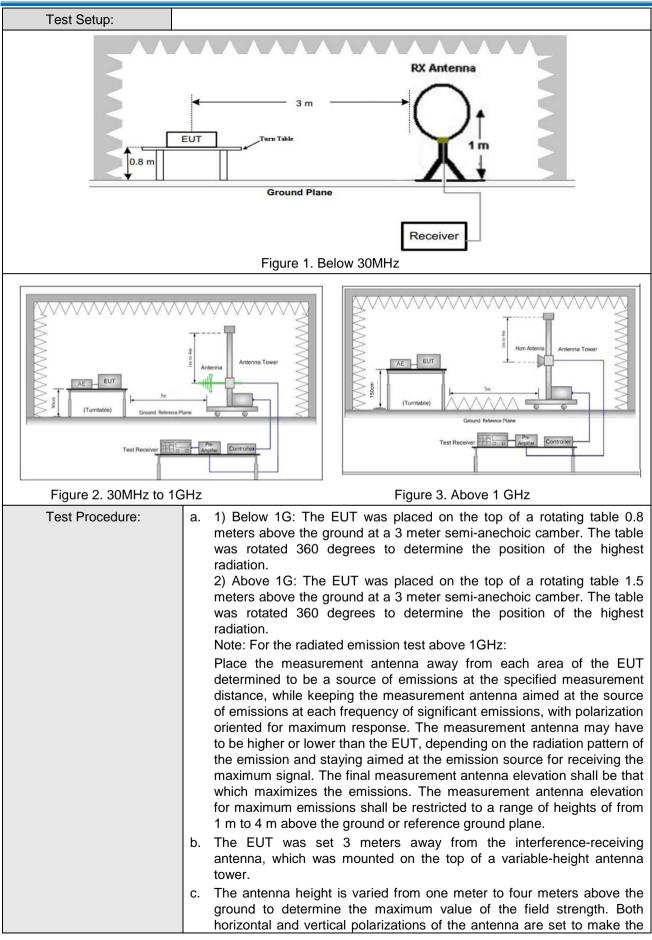


## 5.8 Radiated Spurious Emission & Restricted bands

### 5.8.1 Spurious Emissions

	J.O.T Opunous Emissions							
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 2013							
Test Site:	Measurement Distance	: 3n	n (Semi-Anecł	noic Cham	be	r)		
Receiver Setup:	Frequency		Detector	RBW	RBW		Remark	1
	0.009MHz-0.090MH	z	Peak	10kHz	z	30kHz	Peak	
	0.009MHz-0.090MH	z	Average	10kHz	z	30kHz	Average	
	0.090MHz-0.110MH	z	Quasi-peak	10kHz	z	30kHz	Quasi-peak	
	0.110MHz-0.490MH	z	Peak	10kHz	z	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	łz	300kHz	Quasi-peak	]
			Peak	1MHz	2	3MHz	Peak	
	Above 1GHz		Peak	1MHz	Z	10Hz	Average	
Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)		Remark	Measureme distance (r	
	0.009MHz-0.490MHz	2	400/F(kHz)	-	-		300	
	0.490MHz-1.705MHz	24	4000/F(kHz)	-	-		30	
	1.705MHz-30MHz		30	-	-		30	
	30MHz-88MHz		100	40.0	0.0 Quasi-peak		3	
	88MHz-216MHz		150	43.5	Quasi-peak		3	
	216MHz-960MHz	16MHz-960MHz 200		46.0	Q	uasi-peak	3	
	960MHz-1GHz	MHz-1GHz 500		54.0	Q	uasi-peak	3	
	Above 1GHz	ve 1GHz 500		54.0		Average	3	
	Note: 15.35(b), frequency emissions is limit applicable to the e peak emission level rac	20c quip	B above the present under t	maximum est. This p	pe	rmitted ave	rage emissio	n

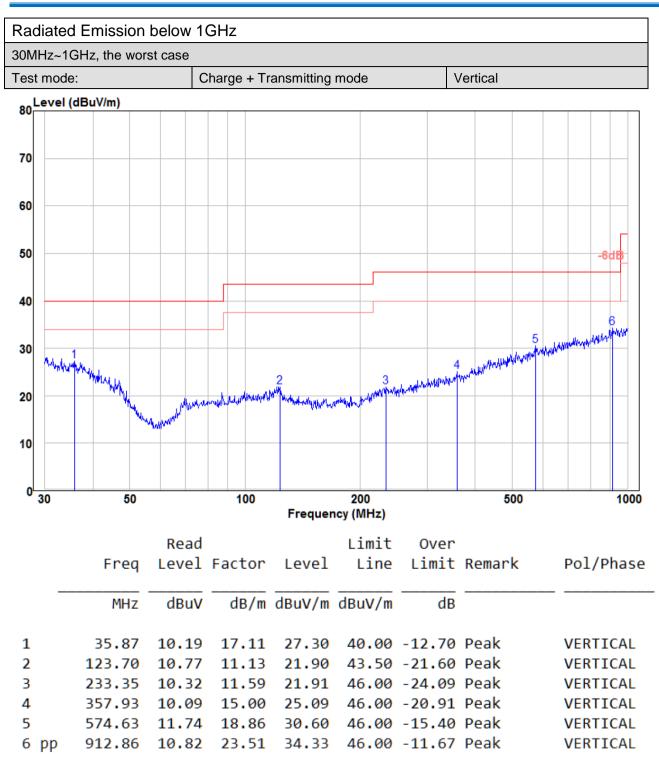




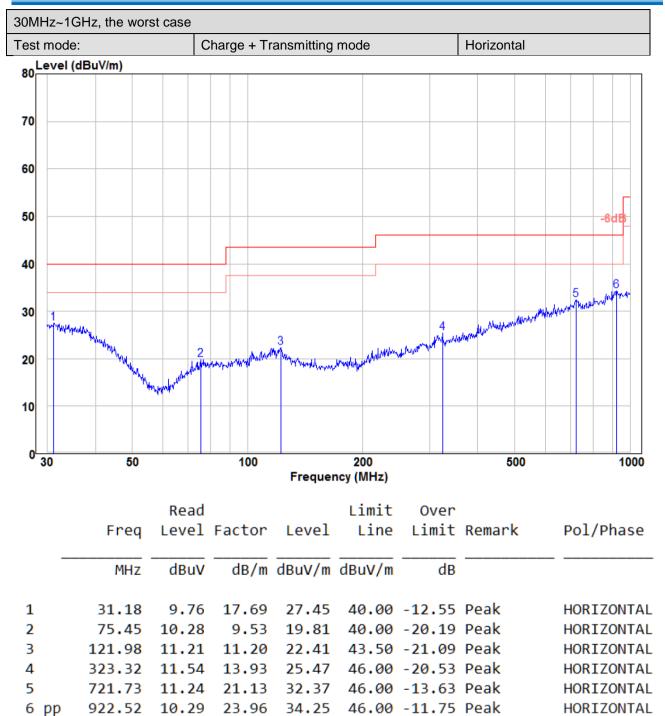


	measurement.
	<ul> <li>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>a. The test reasing system was set to Back Detect Function and Specified.</li> </ul>
	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











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#### Transmitter Emission above 1GHz

Worse case mode:		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	53.76	-9.2	44.56	74	-29.44	Peak	Н
2400	56.65	-9.39	47.26	74	-26.74	Peak	Н
4804	51.87	-4.32	47.55	74	-26.45	Peak	Н
7206	48.84	1.02	49.86	74	-24.14	Peak	Н
2390	54.76	-9.2	45.56	74	-28.44	Peak	v
2400	56.31	-9.39	46.92	74	-27.08	Peak	V
4804	55.19	-4.32	50.87	74	-23.13	Peak	V
7206	48.46	1.02	49.48	74	-24.52	Peak	V

Worse case mode:		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	52.97	-4.1	48.87	74	-25.13	peak	Н
7320	50.23	1.52	51.75	74	-22.25	peak	Н
4880	52.38	-4.1	48.28	74	-25.72	peak	V
7320	48.74	1.52	50.26	74	-23.74	peak	V

Worse case mode:		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	54.24	-9.29	44.95	74	-29.05	Peak	Н
4960	52.07	-4.03	48.04	74	-25.96	Peak	Н
7440	49.39	1.58	50.97	74	-23.03	Peak	Н
2483.5	55.46	-9.29	46.17	74	-27.83	Peak	v
4960	48.65	-4.03	44.62	74	-29.38	Peak	V
7440	51.15	1.58	52.73	74	-21.27	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.



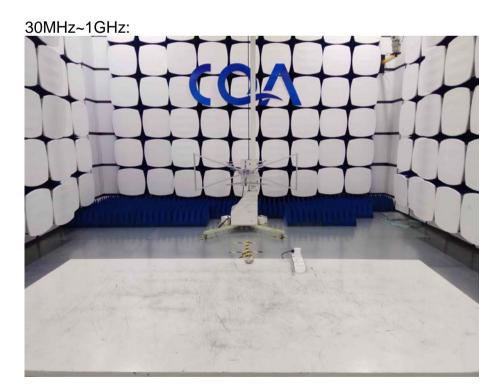
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## 6 Photographs - EUT Test Setup

### 6.1 Radiated Spurious Emission

9KHz~30MHz:







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6.2 Conducted Emission



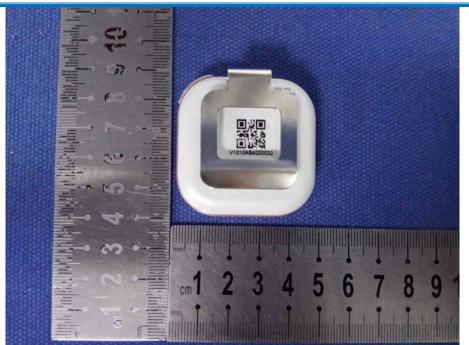


# 7 Photographs - EUT Constructional Details





















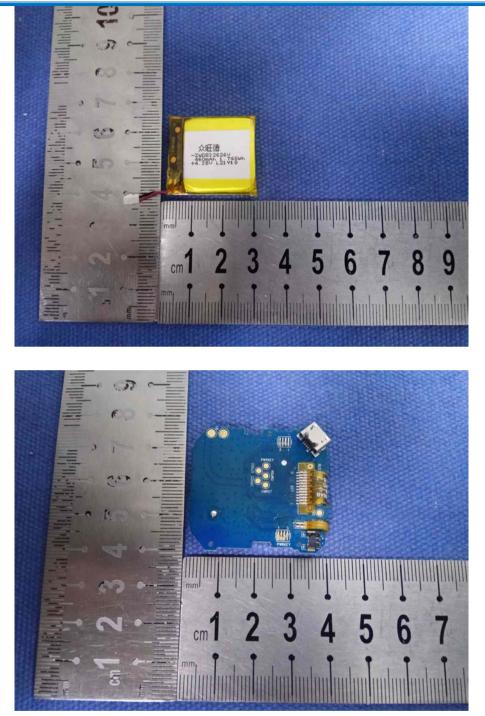




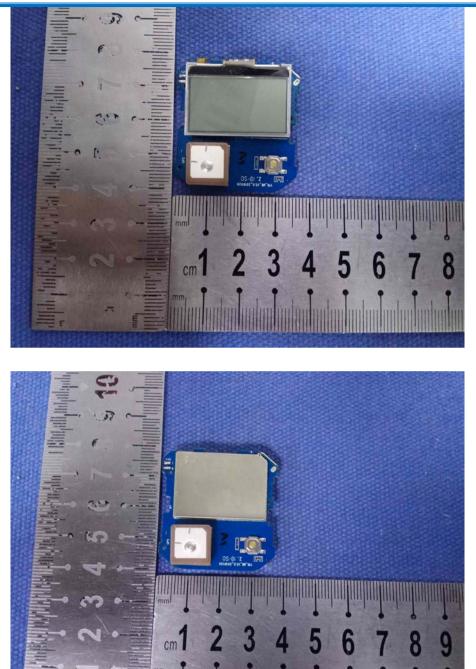




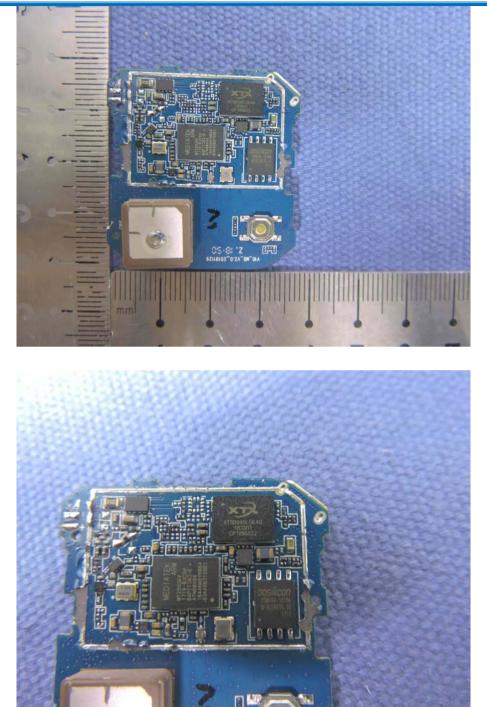






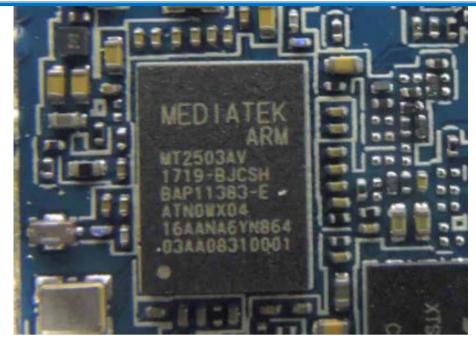








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The End