

## TEST REPORT

**Product** : SMART CONNECT GOLD REEL  
**Trade mark** : N/A  
**Model/Type reference** : SCR.V.2  
**Serial Number** : N/A  
**Report Number** : EED32K00336001  
**FCC ID** : 2AQ7V-SCRMB1  
**Date of Issue** : Jan. 17, 2019  
**Test Standards** : 47 CFR Part 15Subpart C  
**Test result** : PASS

Prepared for:

**V-Mark Enterprises Ltd.**

**400-601 West Broadway, Vancouver, British Columbia, Canada**

Prepared by:

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Jan. 17, 2019

Check No.:1022536210



## 2 Version

Version No.	Date	Description
00	Jan. 17, 2019	Original

### 3 Test Summary

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

Remark:

Test according to ANSI C63.4-2014 & ANSI C63.10-2013.

The tested sample(s) and the sample information are provided by the client.

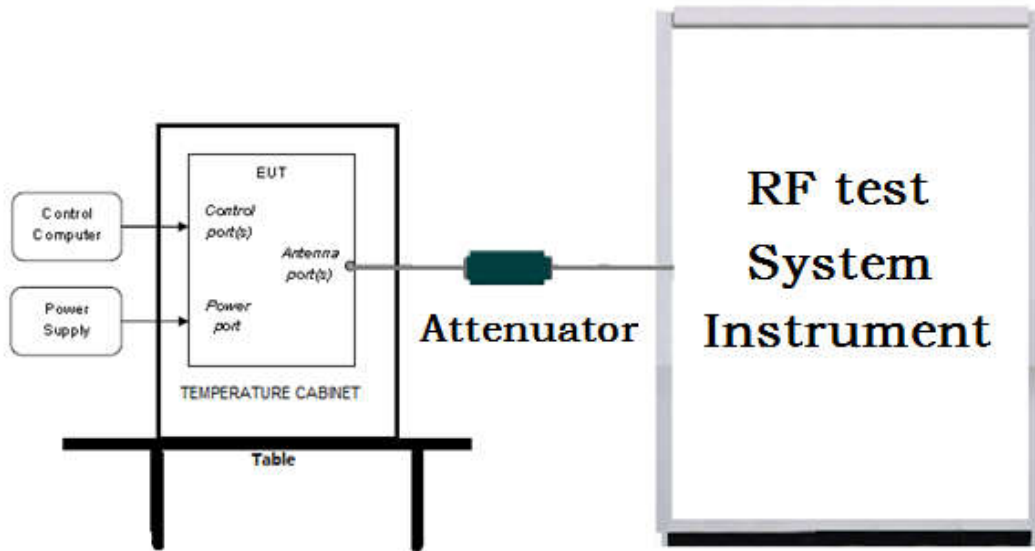
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## 5 Test Requirement

### 5.1 Test setup

#### 5.1.1 For Conducted test setup



#### 5.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

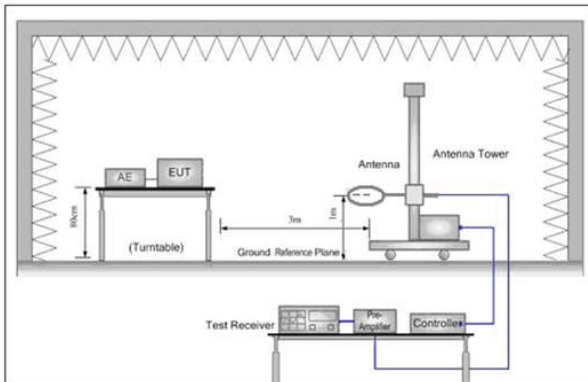


Figure 1. Below 30MHz

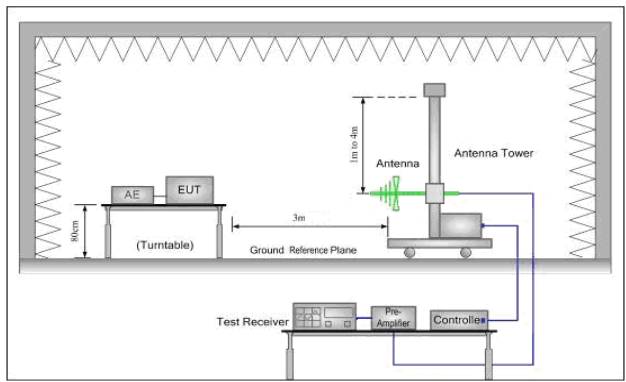


Figure 2. 30MHz to 1GHz

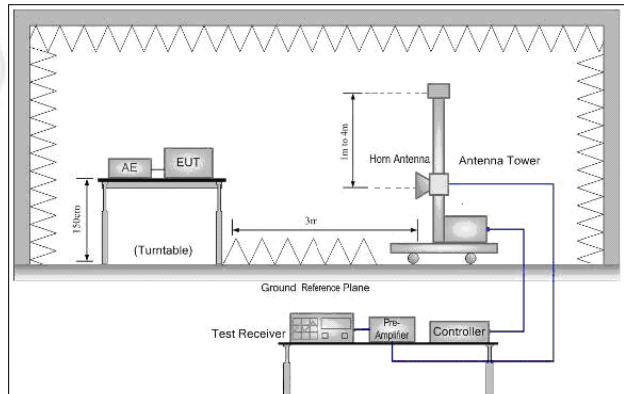
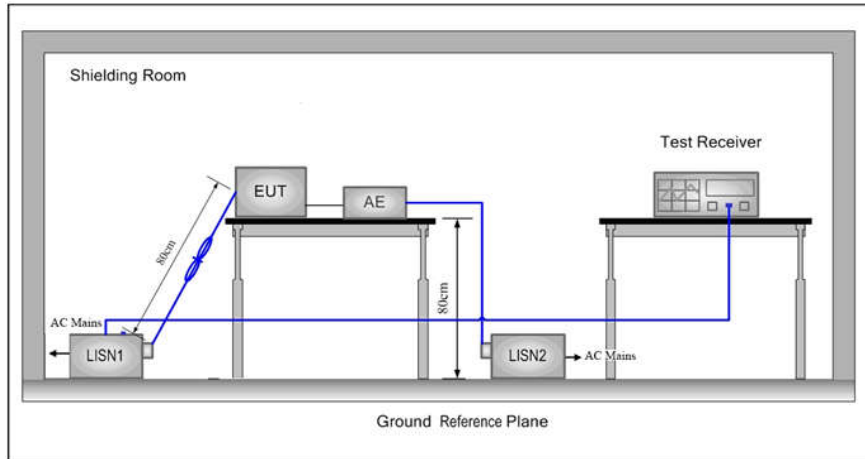


Figure 3. Above 1GHz

**5.1.3 For Conducted Emissions test setup  
Conducted Emissions setup**



**5.2 Test Environment**

Operating Environment(RF):	
Temperature:	26.2 °C
Humidity:	55 % RH
Atmospheric Pressure:	1010mbar

**5.3 Test Condition**

Test channel:

Test Mode	Tx/Rx	RF Channel		
		Low(L)	Middle(M)	High(H)
GFSK	2402MHz ~2480 MHz	Channel 1	Channel 20	Channel 40
		2402MHz	2440MHz	2480MHz
Transmitting mode:	The EUT transmitted the continuous signal at the specific channel(s).			

## 6 General Information

### 6.1 Client Information

Applicant:	V-Mark Enterprises Ltd.
Address of Applicant:	400-601 West Broadway, Vancouver, British Columbia, Canada
Manufacturer:	Senpu Fishing Tackle Co., Ltd.
Address of Manufacturer:	Floor 2 No 2 Building Fucheng Industrial Park, 82nd Shilian lu, Shiji Town, Panyu District, GuangZhou
Factory:	Senpu Fishing Tackle Co., Ltd.
Address of Factory:	Floor 2 No 2 Building Fucheng Industrial Park, 82nd Shilian lu, Shiji Town, Panyu District, GuangZhou

### 6.2 General Description of EUT

Product Name:	SMART CONNECT GOLD REEL
Model No.(EUT):	SCRV.2
Trade mark:	N/A
EUT Supports Radios application:	BT: 4.2 BT Single mode: 2402MHz to 2480MHz
Power Supply:	DC 3.3V
Firmware version:	V2(manufacturer declare)
Hardware version:	V2(manufacturer declare)
Sample Received Date:	Dec. 17, 2018
Sample tested Date:	Dec. 21, 2018 to Jan. 17, 2019

### 6.3 Product Specification subjective to this standard

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	4.2
Modulation Technique:	DSSS
Modulation Type:	GFSK
Number of Channel:	40
Sample Type:	Portable production
Test Power Grade:	N/A
Test Software of EUT:	N/A
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi
Test Voltage:	AC 120V

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	11	2422MHz	21	2442MHz	31	2462MHz
2	2404MHz	12	2424MHz	22	2444MHz	32	2464MHz
3	2406MHz	13	2426MHz	23	2446MHz	33	2466MHz
4	2408MHz	14	2428MHz	24	2448MHz	34	2468MHz
5	2410MHz	15	2430MHz	25	2450MHz	35	2470MHz

6	2412MHz	16	2432MHz	26	2452MHz	36	2472MHz
7	2414MHz	17	2434MHz	27	2454MHz	37	2474MHz
8	2416MHz	18	2436MHz	28	2456MHz	38	2476MHz
9	2418MHz	19	2438MHz	29	2458MHz	39	2478MHz
10	2420MHz	20	2440MHz	30	2460MHz	40	2480MHz

## 6.4 Description of Support Units

Associated equipment name		Manufacture	model	S/N	Supplied by	Certification
AE1	AC/DC ADAPTER	SHENZHEN JUKE ELECTRONICS CO.,LTD.	JK050200-S04EUA	/	CTI	CE

## 6.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd  
 Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China  
 Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

## 6.6 Deviation from Standards

None.

## 6.7 Abnormalities from Standard Conditions

None.

## 6.8 Other Information Requested by the Customer

None.

## 6.9 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	$7.9 \times 10^{-8}$
2	RF power, conducted	0.46dB (30MHz-1GHz)
		0.55dB (1GHz-18GHz)
3	Radiated Spurious emission test	4.3dB (30MHz-1GHz)
		4.5dB (1GHz-12.75GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
		3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%



## 7 Equipment List

RF test system					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Signal Generator	Keysight	E8257D	MY53401106	03-13-2018	03-12-2019
Spectrum Analyzer	Keysight	N9010A	MY54510339	03-13-2018	03-12-2019
Signal Generator	Keysight	N5182B	MY53051549	03-13-2018	03-12-2019
High-pass filter	Sinoscite	FL3CX03WG1 8NM12-0398-002	---	01-10-2018 01-09-2019	01-09-2019 01-08-2020
High-pass filter	MICRO-TRONICS	SPA-F-63029-4	---	01-10-2018 01-09-2019	01-09-2019 01-08-2020
DC Power	Keysight	E3642A	MY54426035	03-13-2018	03-12-2019
PC-1	Lenovo	R4960d	---	03-13-2018	03-12-2019
BT&WI-FI Automatic control	R&S	OSP120	101374	03-13-2018	03-12-2019
RF control unit	JS Tonscend	JS0806-2	15860006	03-13-2018	03-12-2019
RF control unit	JS Tonscend	JS0806-1	15860004	03-13-2018	03-12-2019
RF control unit	JS Tonscend	JS0806-4	158060007	03-13-2018	03-12-2019
BT&WI-FI Automatic test software	JS Tonscend	JS1120-2	---	03-13-2018	03-12-2019
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	10-12-2018	10-11-2019

Conducted disturbance Test					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Receiver	R&S	ESCI	100435	05-25-2018	05-24-2019
Temperature/ Humidity Indicator	Defu	TH128	/	07-02-2018	07-01-2019
Communication test set	Agilent	E5515C	GB47050534	03-16-2018	03-15-2019
Communication test set	R&S	CMW500	152394	03-16-2018	03-15-2019
LISN	R&S	ENV216	100098	05-10-2018	05-10-2019
LISN	schwarzbeck	NNLK8121	8121-529	05-10-2018	05-10-2019
Voltage Probe	R&S	ESH2-Z3 0299.7810.56	100042	06-13-2017	06-11-2020
Current Probe	R&S	EZ-17 816.2063.03	100106	05-30-2018	05-29-2019
ISN	TESEQ	ISN T800	30297	02-06-2018	02-05-2019
Barometer	changchun	DYM3	1188	07-02-2018	07-01-2019

3M Semi/full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3	---	06-04-2016	06-03-2019
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-401	10-28-2018	10-27-2019
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-618	07-30-2018	07-29-2019
Microwave Preamplicifier	Agilent	8449B	3008A02425	08-21-2018	08-20-2019
Microwave Preamplicifier	Tonscend	EMC051845SE	980380	01-19-2018	01-18-2019
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1869	04-25-2018	04-23-2021
Horn Antenna	ETS-LINDGREN	3117	00057410	06-05-2018	06-03-2021
Double ridge horn antenna	A.H.SYSTEMS	SAS-574	6042	06-05-2018	06-04-2021
Pre-amplifier	A.H.SYSTEMS	PAP-1840-60	6041	06-05-2018	06-04-2021
Loop Antenna	ETS	6502	00071730	06-22-2017	06-21-2019
Spectrum Analyzer	R&S	FSP40	100416	05-11-2018	05-10-2019
Receiver	R&S	ESCI	100435	05-25-2018	05-24-2019
Receiver	R&S	ESCI7	100938-003	11-23-2018	11-22-2019
Multi device Controller	maturio	NCD/070/10711112	---	01-10-2018 01-09-2019	01-09-2019 01-08-2020
LISN	schwarzbeck	NNBM8125	81251547	05-11-2018	05-10-2019
LISN	schwarzbeck	NNBM8125	81251548	05-11-2018	05-10-2019
Signal Generator	Agilent	E4438C	MY45095744	03-13-2018	03-12-2019
Signal Generator	Keysight	E8257D	MY53401106	03-13-2018	03-12-2019
Temperature/ Humidity	Shanghai	HM10	1804298	10-12-2018	10-11-2019

Indicator	qixiang				
Communication test set	Agilent	E5515C	GB47050 534	03-16-2018	03-15-2019
Cable line	Fulai(7M)	SF106	5219/6A	01-10-2018 01-09-2019	01-09-2019 01-08-2020
Cable line	Fulai(6M)	SF106	5220/6A	01-10-2018 01-09-2019	01-09-2019 01-08-2020
Cable line	Fulai(3M)	SF106	5216/6A	01-10-2018 01-09-2019	01-09-2019 01-08-2020
Cable line	Fulai(3M)	SF106	5217/6A	01-10-2018 01-09-2019	01-09-2019 01-08-2020
Communication test set	R&S	CMW500	104466	02-05-2018	02-04-2019
High-pass filter	Sinoscite	FL3CX03WG 18NM12- 0398-002	---	01-10-2018 01-09-2019	01-09-2019 01-08-2020
High-pass filter	MICRO- TRONICS	SPA-F- 63029-4	---	01-10-2018 01-09-2019	01-09-2019 01-08-2020
band rejection filter	Sinoscite	FL5CX01CA0 9CL12-0395- 001	---	01-10-2018 01-09-2019	01-09-2019 01-08-2020
band rejection filter	Sinoscite	FL5CX01CA0 8CL12-0393- 001	---	01-10-2018 01-09-2019	01-09-2019 01-08-2020
band rejection filter	Sinoscite	FL5CX02CA0 4CL12-0396- 002	---	01-10-2018 01-09-2019	01-09-2019 01-08-2020
band rejection filter	Sinoscite	FL5CX02CA0 3CL12-0394- 001	---	01-10-2018 01-09-2019	01-09-2019 01-08-2020

## 8 Radio Technical Requirements Specification

### Reference documents for testing:

No.	Identity	Document Title
1	FCC Part15C	Subpart C-Intentional Radiators
2	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

### Test Results List:

Test Requirement	Test method	Test item	Verdict	Note
Part15C Section 15.247 (a)(2)	ANSI C63.10	6dB Occupied Bandwidth	PASS	Appendix A)
Part15C Section 15.247 (b)(3)	ANSI C63.10	Conducted Peak Output Power	PASS	Appendix B)
Part15C Section 15.247(d)	ANSI C63.10	Band-edge for RF Conducted Emissions	PASS	Appendix C)
Part15C Section 15.247(d)	ANSI C63.10	RF Conducted Spurious Emissions	PASS	Appendix D)
Part15C Section 15.247 (e)	ANSI C63.10	Power Spectral Density	PASS	Appendix E)
Part15C Section 15.203/15.247 (c)	ANSI C63.10	Antenna Requirement	PASS	Appendix F)
Part15C Section 15.207	ANSI C63.10	AC Power Line Conducted Emission	PASS	Appendix G)
Part15C Section 15.205/15.209	ANSI C63.10	Restricted bands around fundamental frequency (Radiated Emission)	PASS	Appendix H)
Part15C Section 15.205/15.209	ANSI C63.10	Radiated Spurious Emissions	PASS	Appendix I)

**Appendix A): 6dB Occupied Bandwidth**

**Test Result**

Mode	Channel	6dB Bandwidth [MHz]	99% OBW[MHz]	Verdict	Remark
BLE	LCH	0.6595	1.0462	PASS	Peak detector
BLE	MCH	0.6589	1.0469	PASS	
BLE	HCH	0.6686	1.0463	PASS	

**Test Graphs**

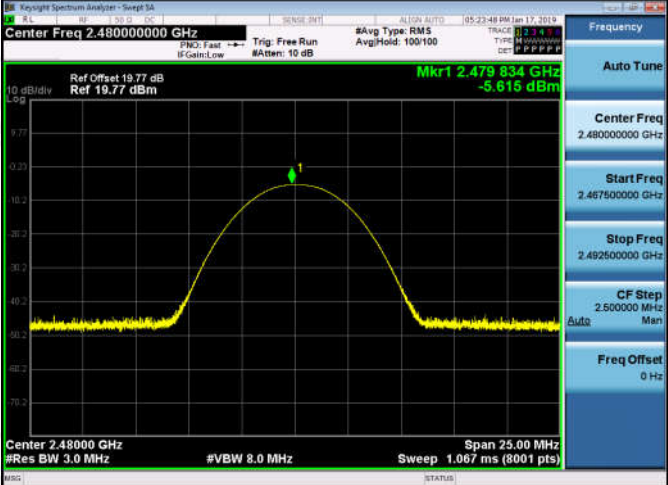
Graphs	
LCH	<p>Keygraph Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.402000000 GHz</p> <p>Ref Offset: 19.6 dB Ref: 20.00 dBm</p> <p>Center 2.402 GHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Span 3 MHz Sweep 1.067 ms</p> <p><b>Occupied Bandwidth 1.0462 MHz</b></p> <p>Total Power 2.06 dBm</p> <p>Transmit Freq Error 32.001 kHz</p> <p>x dB Bandwidth 659.5 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB -6.00 dB</p>
MCH	<p>Keygraph Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.440000000 GHz</p> <p>Ref Offset: 19.77 dB Ref: 20.00 dBm</p> <p>Center 2.44 GHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Span 3 MHz Sweep 1.067 ms</p> <p><b>Occupied Bandwidth 1.0469 MHz</b></p> <p>Total Power 1.47 dBm</p> <p>Transmit Freq Error 32.315 kHz</p> <p>x dB Bandwidth 658.9 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB -6.00 dB</p>
HCH	<p>Keygraph Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.480000000 GHz</p> <p>Ref Offset: 19.77 dB Ref: 20.00 dBm</p> <p>Center 2.48 GHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Span 3 MHz Sweep 1.067 ms</p> <p><b>Occupied Bandwidth 1.0463 MHz</b></p> <p>Total Power 0.87 dBm</p> <p>Transmit Freq Error 32.622 kHz</p> <p>x dB Bandwidth 668.6 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB -6.00 dB</p>

### Appendix B): Conducted Peak Output Power

#### Test Result

Mode	Channel	Conduct Peak Power[dBm]	Verdict
BLE	LCH	-4.439	PASS
BLE	MCH	-5.022	PASS
BLE	HCH	-5.615	PASS

**Test Graphs**

Graphs	
LCH	
MCH	
HCH	

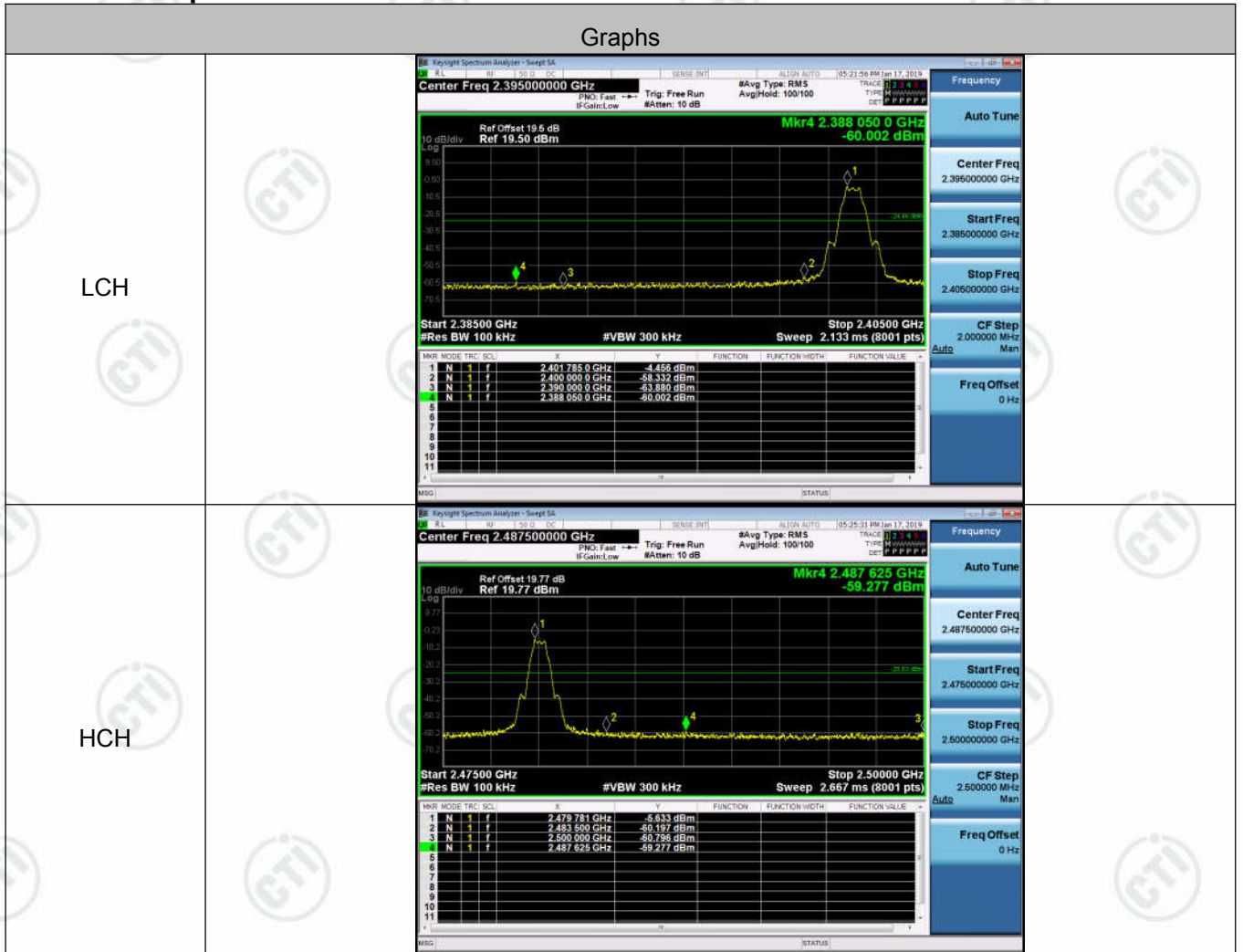


**Appendix C): Band-edge for RF Conducted Emissions**

**Result Table**

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
BLE	LCH	-4.456	-60.002	-24.46	PASS
BLE	HCH	-5.633	-59.277	-25.63	PASS

**Test Graphs**

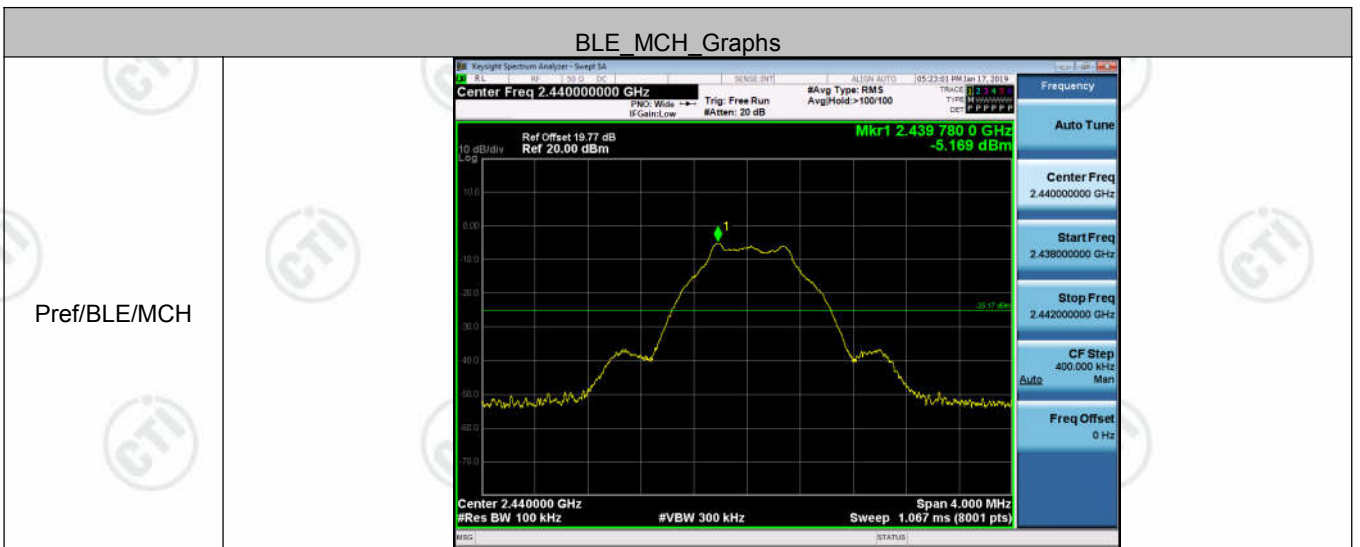
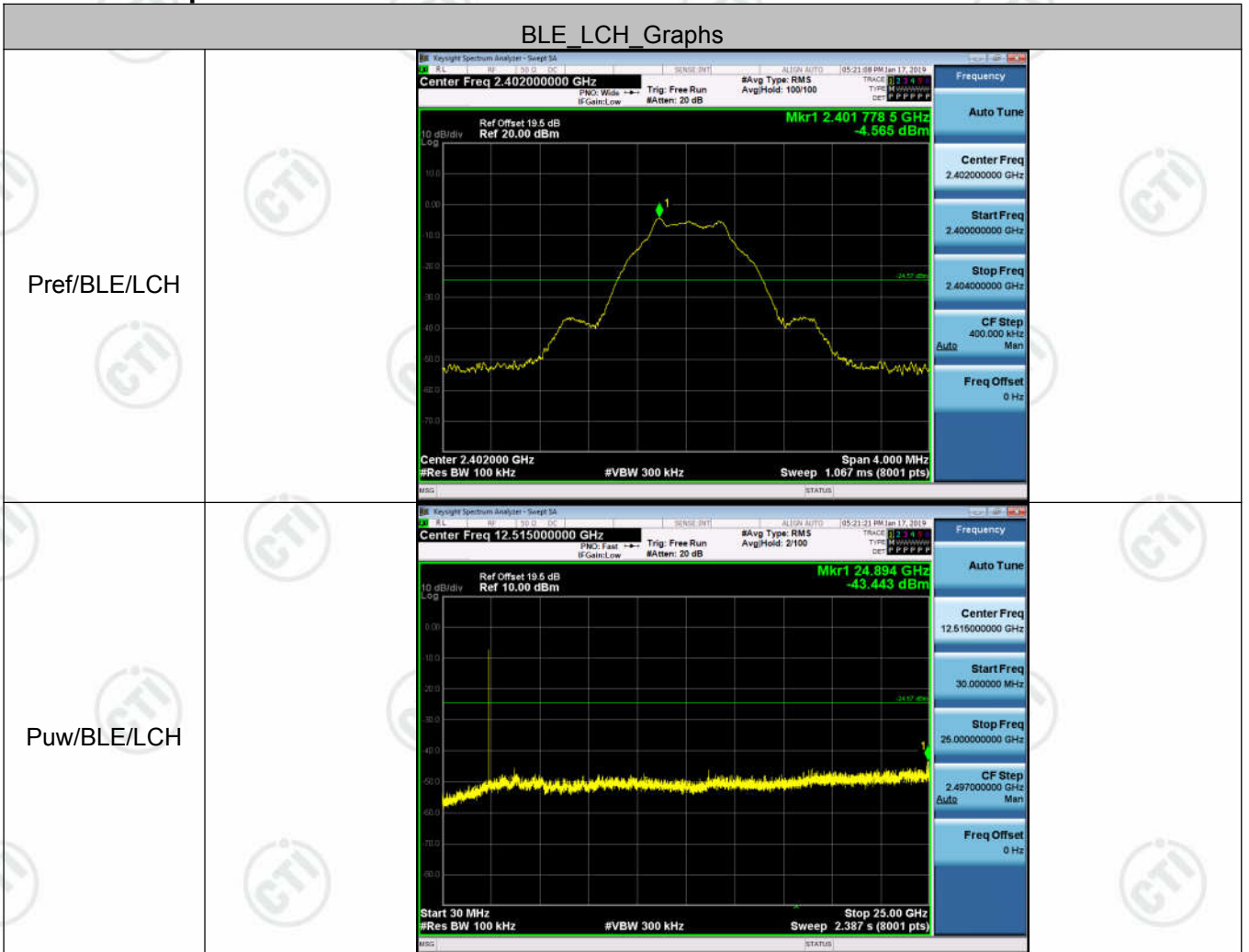


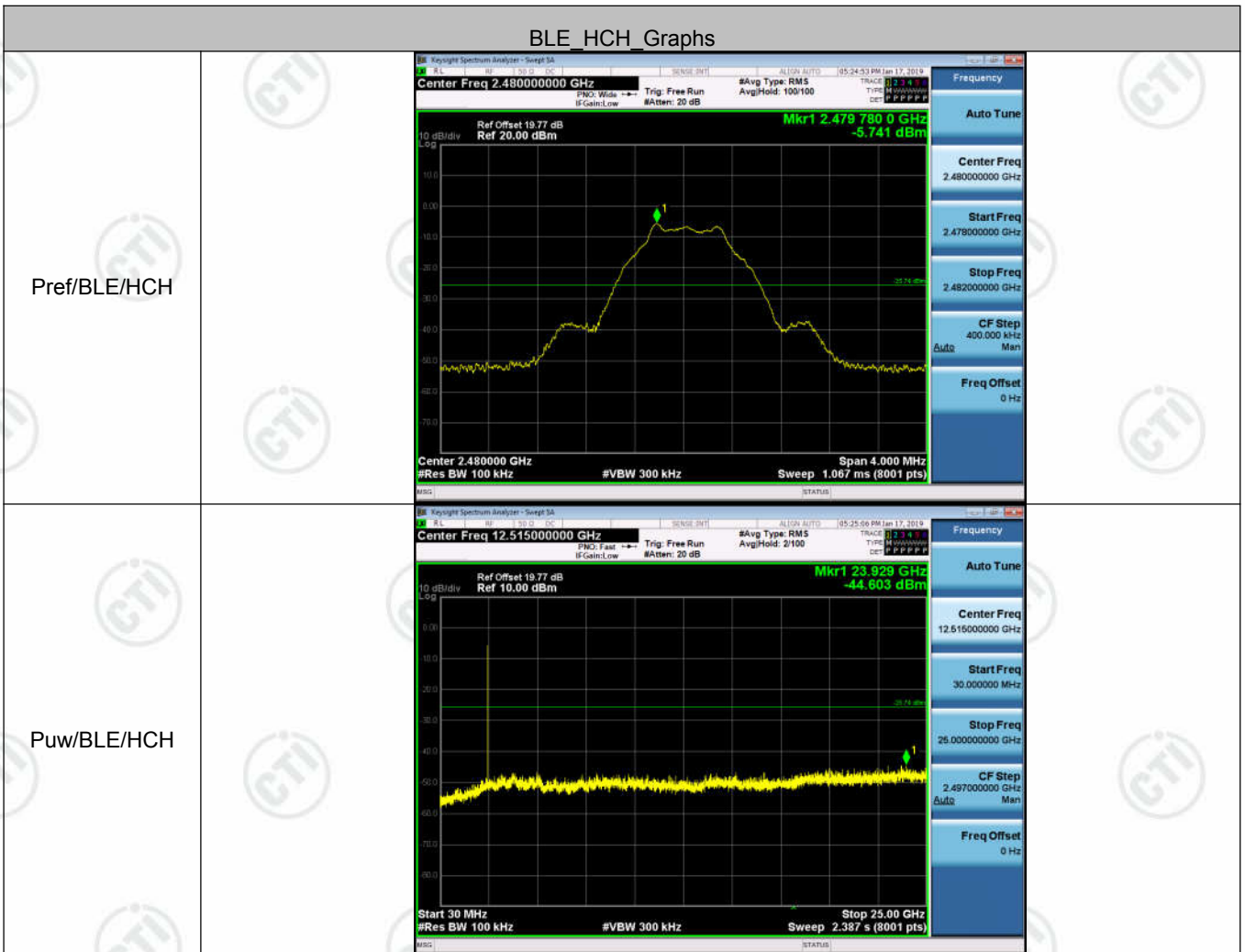
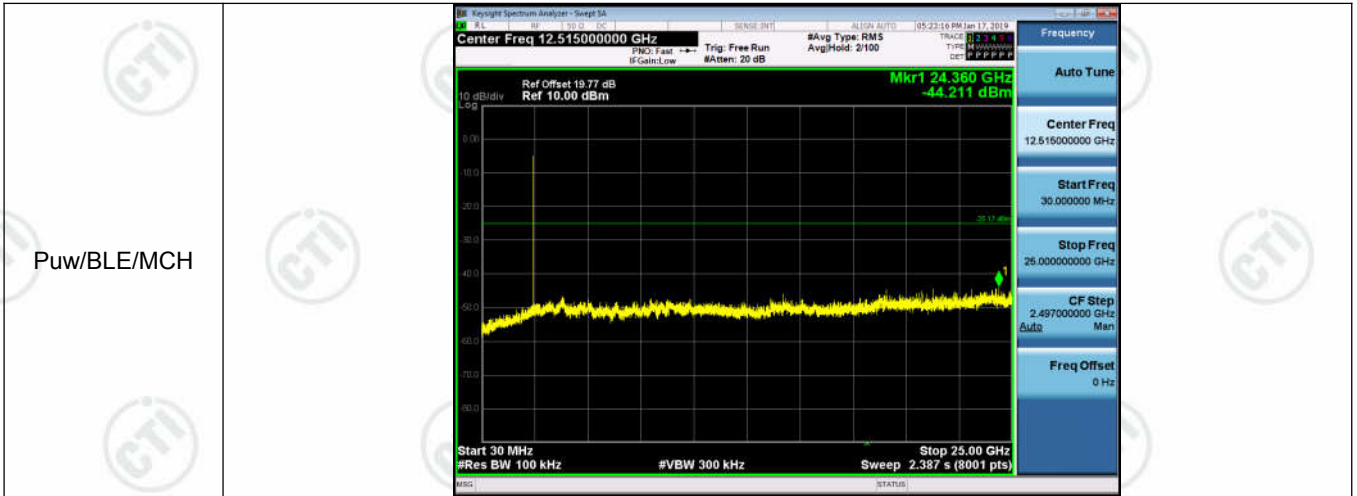
## Appendix D): RF Conducted Spurious Emissions

### Result Table

Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
BLE	LCH	-4.565	<Limit	PASS
BLE	MCH	-5.169	<Limit	PASS
BLE	HCH	-5.741	<Limit	PASS

**Test Graphs**





## Appendix E): Power Spectral Density

### Result Table

Mode	Channel	PSD[dBm/3kHz]	Limit [dBm/3kHz]	Verdict
BLE	LCH	-5.678	8	PASS
BLE	MCH	-6.287	8	PASS
BLE	HCH	-6.878	8	PASS

**Test Graphs**

Graphs	
LCH	<p>Keygraph Spectrum Analyzer - Sweep SA Center Freq 2.40200000 GHz #Avg Type: RMS #Attenu: 10 dB Ref Offset 19.5 dB Ref 10.00 dBm Mkr1 2.401 776 80 GHz -5.678 dBm Center 2.4020000 GHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 158.4 ms (8001 pts)</p>
MCH	<p>Keygraph Spectrum Analyzer - Sweep SA Center Freq 2.44000000 GHz #Avg Type: RMS #Attenu: 10 dB Ref Offset 19.77 dB Ref 10.00 dBm Mkr1 2.439 776 89 GHz -6.287 dBm Center 2.4400000 GHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 158.4 ms (8001 pts)</p>
HCH	<p>Keygraph Spectrum Analyzer - Sweep SA Center Freq 2.48000000 GHz #Avg Type: RMS #Attenu: 10 dB Ref Offset 19.77 dB Ref 10.00 dBm Mkr1 2.479 777 25 GHz -6.878 dBm Center 2.4800000 GHz #Res BW 3.0 kHz #VBW 10 kHz Sweep 158.4 ms (8001 pts)</p>

## Appendix F): Antenna Requirement

### 15.203 requirement:

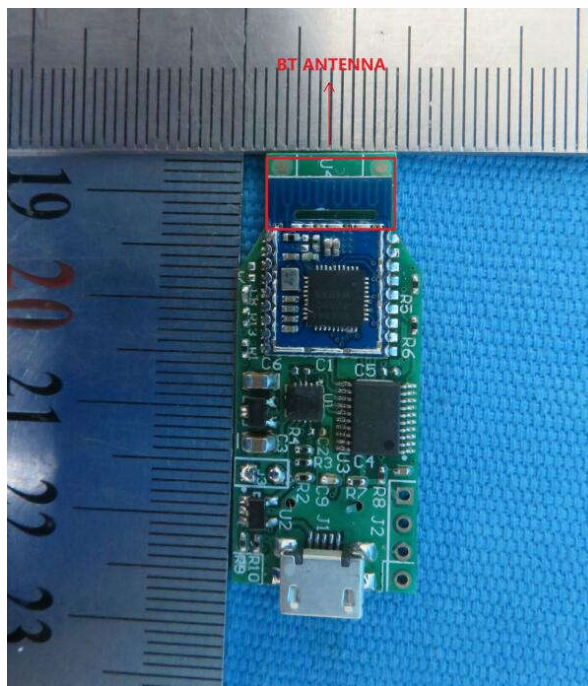
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.





## Appendix G): AC Power Line Conducted Emission

<p>Test Procedure:</p>	<p>Test frequency range :150KHz-30MHz</p> <ol style="list-style-type: none"> <li>1)The mains terminal disturbance voltage test was conducted in a shielded room.</li> <li>2) 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.</li> <li>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,</li> <li>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.</li> <li>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 on conducted measurement.</li> </ol>														
<p>Limit:</p>	<table border="1" data-bbox="496 1160 1366 1379"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBμV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table> <p>* The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz. NOTE : The lower limit is applicable at the transition frequency</p>	Frequency range (MHz)	Limit (dBμV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBμV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													

### Measurement Data

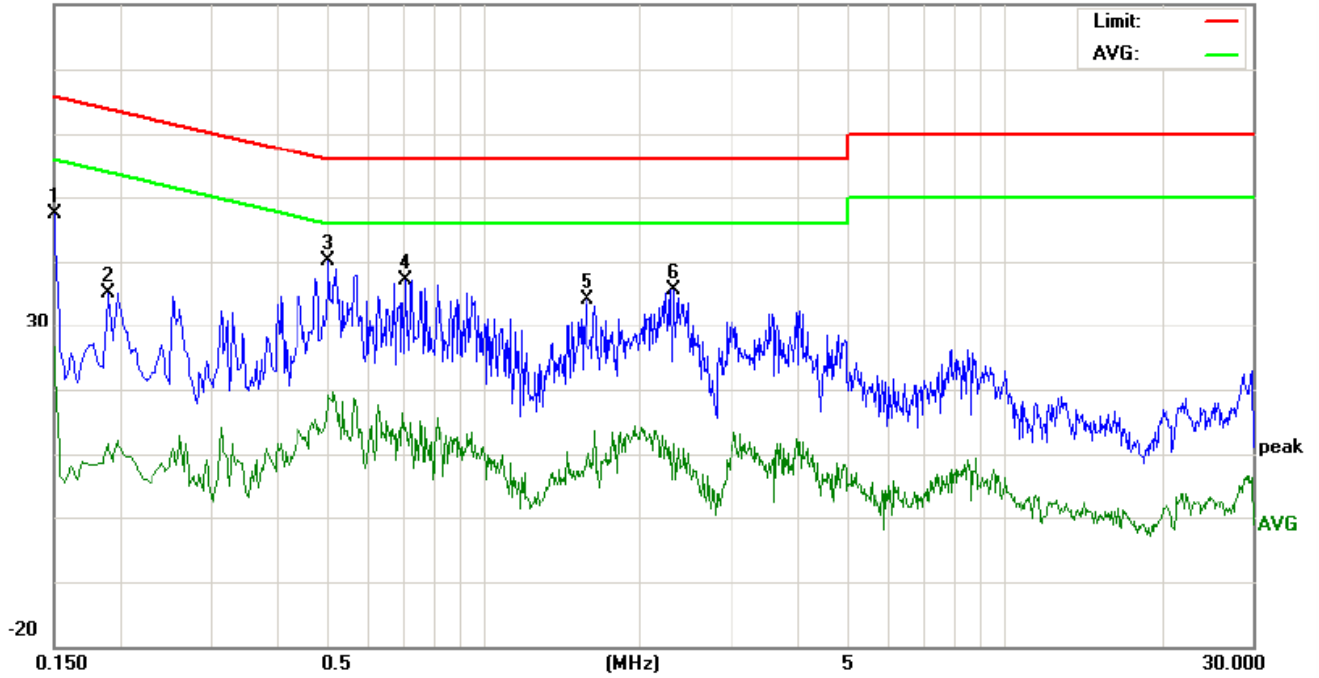
An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

**Product** : SMART CONNECT GOLD REEL **Model/Type reference** : SCR.V.2  
**Temperature** : 22°C **Humidity** : 53%

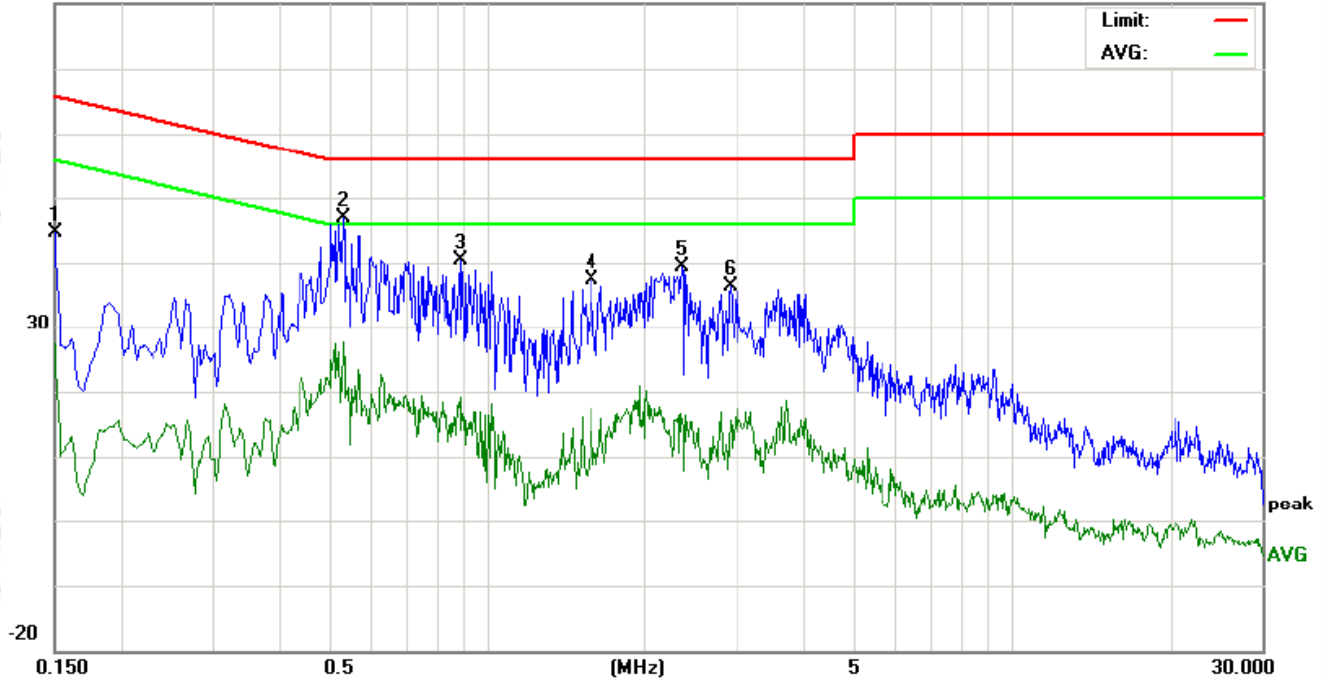
Live line:

80.0 dBuV



No.	Freq. MHz	Reading_Level (dBuV)			Correct Factor dB	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1500	37.51	33.45	16.78	9.91	47.42	43.36	26.69	65.99	55.99	-22.63	-29.30	P	
2	0.1900	25.27	21.45	1.73	9.91	35.18	31.36	11.64	64.03	54.03	-32.67	-42.39	P	
3	0.5060	30.14	27.12	9.35	9.90	40.04	37.02	19.25	56.00	46.00	-18.98	-26.75	P	
4	0.7060	27.43	23.13	3.92	9.82	37.25	32.95	13.74	56.00	46.00	-23.05	-32.26	P	
5	1.5780	24.28	21.84	-0.08	9.76	34.04	31.60	9.68	56.00	46.00	-24.40	-36.32	P	
6	2.3179	25.99	22.15	1.65	9.72	35.71	31.87	11.37	56.00	46.00	-24.13	-34.63	P	

Neutral line:  
80.0 dBuV



No.	Freq. MHz	Reading_Level (dBuV)			Correct Factor dB	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1500	34.64	31.11	17.43	9.91	44.55	41.02	27.34	65.99	55.99	-24.97	-28.65	P	
2	0.5340	36.85	33.81	17.62	9.94	46.79	43.75	27.56	56.00	46.00	-12.25	-18.44	P	
3	0.8900	30.63	27.51	9.36	9.82	40.45	37.33	19.18	56.00	46.00	-18.67	-26.82	P	
4	1.5820	27.62	24.42	7.63	9.76	37.38	34.18	17.39	56.00	46.00	-21.82	-28.61	P	
5	2.3500	29.57	26.48	5.74	9.72	39.29	36.20	15.46	56.00	46.00	-19.80	-30.54	P	
6	2.9140	26.69	23.45	5.80	9.72	36.41	33.17	15.52	56.00	46.00	-22.83	-30.48	P	

Notes:

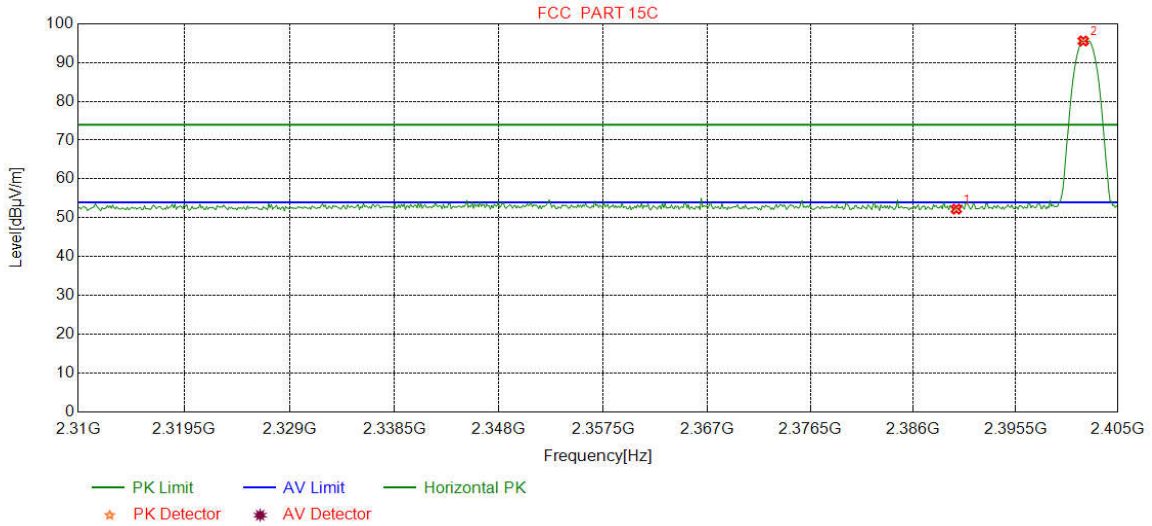
1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

## Appendix H): Restricted bands around fundamental frequency (Radiated)

Receiver Setup:	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Detector</th> <th>RBW</th> <th>VBW</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>30MHz-1GHz</td> <td>Quasi-peak</td> <td>120kHz</td> <td>300kHz</td> <td>Quasi-peak</td> </tr> <tr> <td rowspan="2">Above 1GHz</td> <td>Peak</td> <td>1MHz</td> <td>3MHz</td> <td>Peak</td> </tr> <tr> <td>Peak</td> <td>1MHz</td> <td>10Hz</td> <td>Average</td> </tr> </tbody> </table>	Frequency	Detector	RBW	VBW	Remark	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak	Above 1GHz	Peak	1MHz	3MHz	Peak	Peak	1MHz	10Hz	Average	
Frequency	Detector	RBW	VBW	Remark																	
30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak																	
Above 1GHz	Peak	1MHz	3MHz	Peak																	
	Peak	1MHz	10Hz	Average																	
Test Procedure:	<p><b>Below 1GHz test procedure as below:</b></p> <ol style="list-style-type: none"> <li>The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>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.</li> <li>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 and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</li> </ol> <p><b>Above 1GHz test procedure as below:</b></p> <ol style="list-style-type: none"> <li>Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber change form table 0.8 meter to 1.5 meter( Above 18GHz the distance is 1 meter and table is 1.5 meter).</li> <li>. Test the EUT in the lowest channel , the Highest channel</li> <li>The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.</li> <li>Repeat above procedures until all frequencies measured was complete.</li> </ol>																				
Limit:	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Limit (dB<math>\mu</math>V/m @3m)</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>30MHz-88MHz</td> <td>40.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td>88MHz-216MHz</td> <td>43.5</td> <td>Quasi-peak Value</td> </tr> <tr> <td>216MHz-960MHz</td> <td>46.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td>960MHz-1GHz</td> <td>54.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td rowspan="2">Above 1GHz</td> <td>54.0</td> <td>Average Value</td> </tr> <tr> <td>74.0</td> <td>Peak Value</td> </tr> </tbody> </table>	Frequency	Limit (dB $\mu$ V/m @3m)	Remark	30MHz-88MHz	40.0	Quasi-peak Value	88MHz-216MHz	43.5	Quasi-peak Value	216MHz-960MHz	46.0	Quasi-peak Value	960MHz-1GHz	54.0	Quasi-peak Value	Above 1GHz	54.0	Average Value	74.0	Peak Value
Frequency	Limit (dB $\mu$ V/m @3m)	Remark																			
30MHz-88MHz	40.0	Quasi-peak Value																			
88MHz-216MHz	43.5	Quasi-peak Value																			
216MHz-960MHz	46.0	Quasi-peak Value																			
960MHz-1GHz	54.0	Quasi-peak Value																			
Above 1GHz	54.0	Average Value																			
	74.0	Peak Value																			

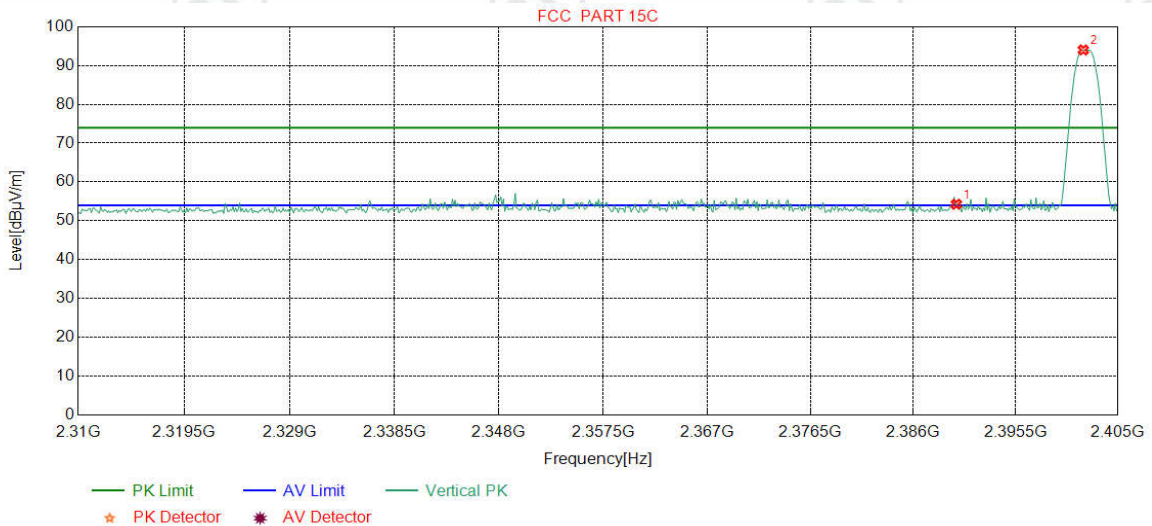
**Test plot as follows:**

Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	Peak		



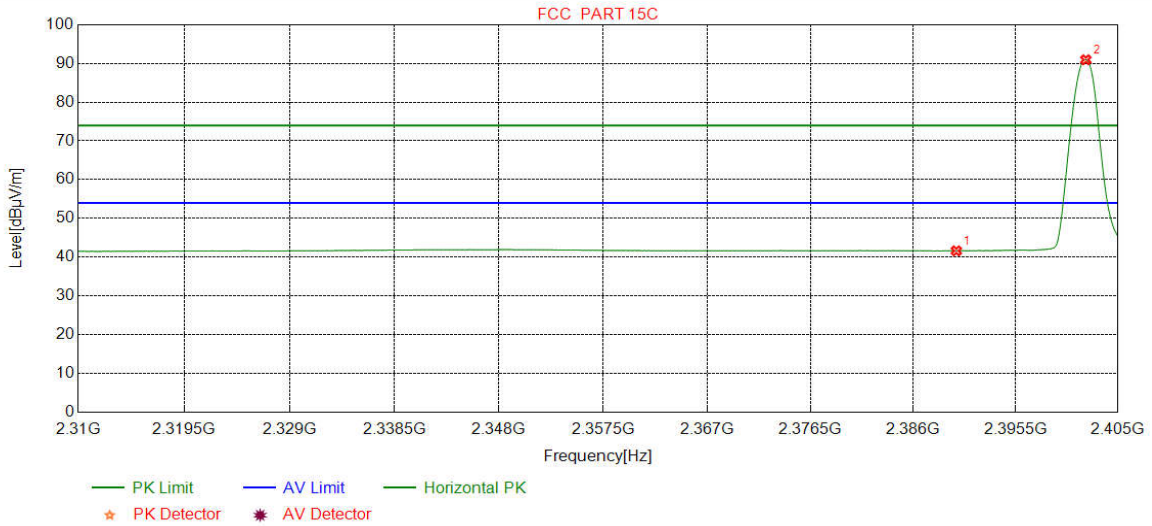
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-42.44	49.04	52.22	74.00	21.78	Pass	Horizontal
2	2401.7897	32.26	13.31	-42.43	92.44	95.58	74.00	-21.58	Pass	Horizontal

Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	Peak		



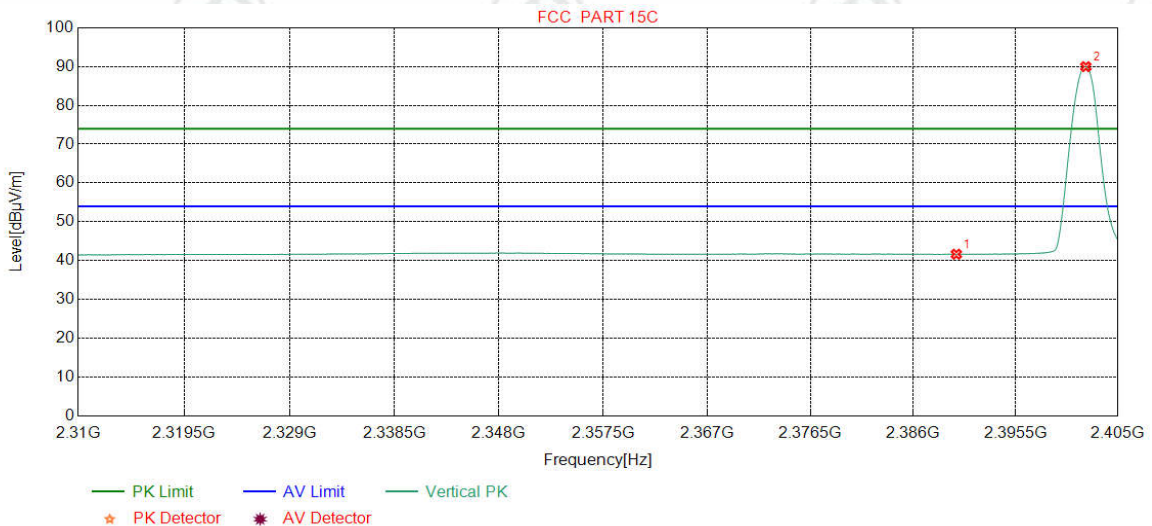
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-42.44	51.08	54.26	74.00	19.74	Pass	Vertical
2	2401.7897	32.26	13.31	-42.43	90.90	94.04	74.00	-20.04	Pass	Vertical

Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	Average		



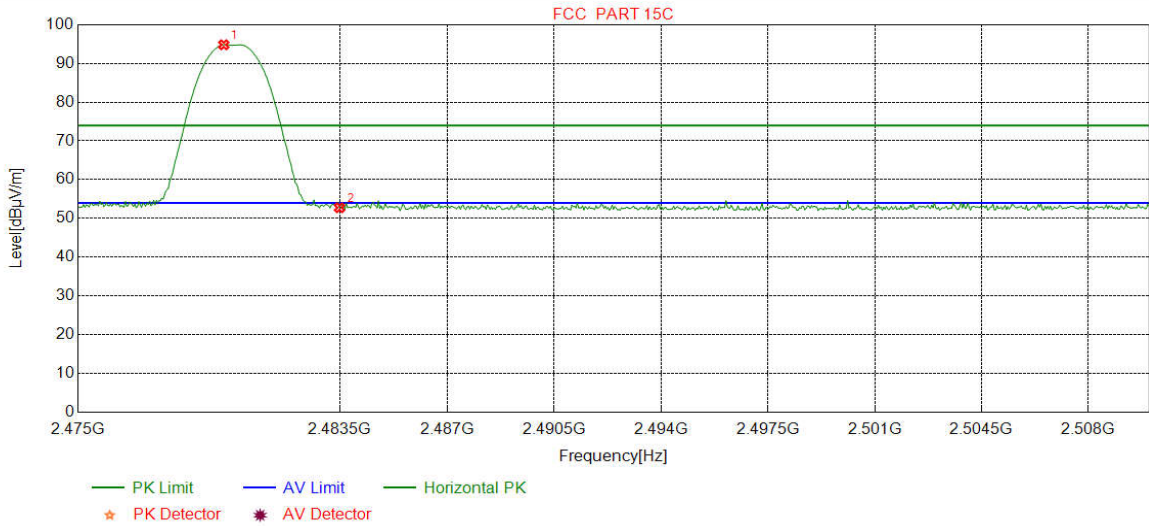
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-42.44	38.42	41.60	54.00	12.40	Pass	Horizontal
2	2402.0275	32.26	13.31	-42.43	87.82	90.96	54.00	-36.96	Pass	Horizontal

Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	Average		



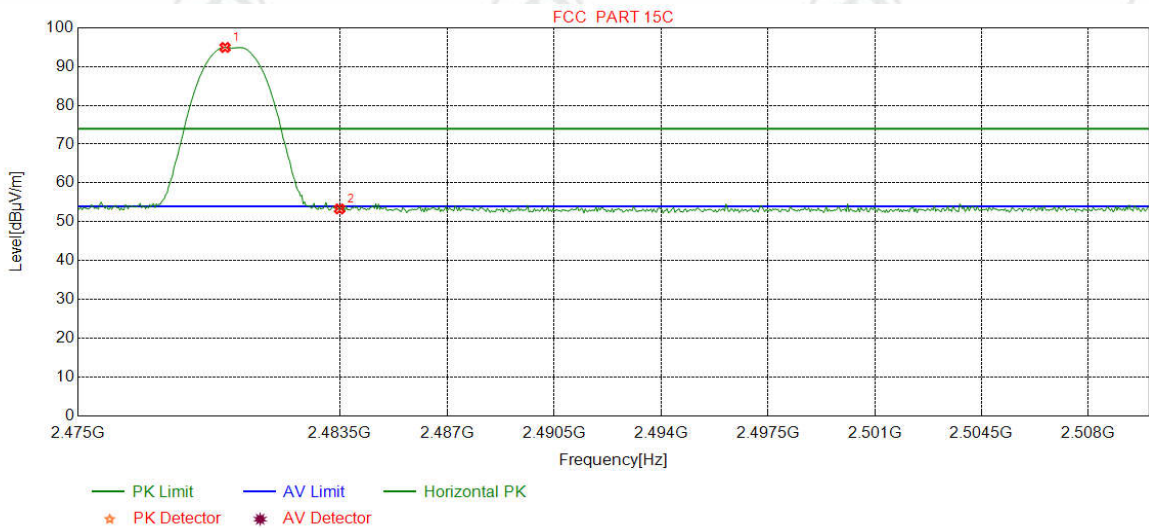
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-42.44	38.45	41.63	54.00	12.37	Pass	Vertical
2	2402.0275	32.26	13.31	-42.43	86.85	89.99	54.00	-35.99	Pass	Vertical

Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	Peak		



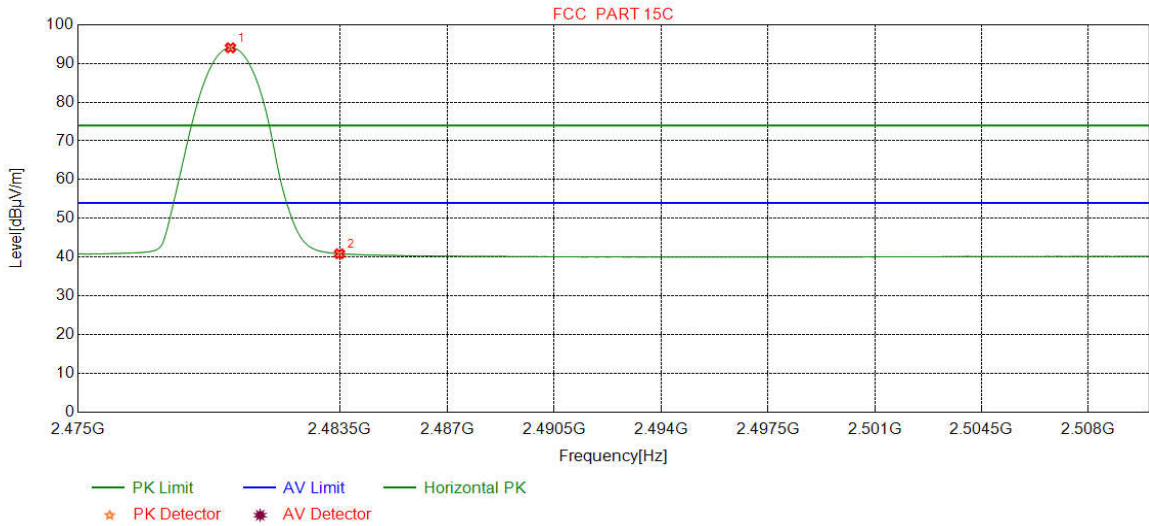
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2479.7309	32.37	13.39	-42.39	91.47	94.84	74.00	-20.84	Pass	Horizontal
2	2483.5000	32.38	13.38	-42.40	49.39	52.75	74.00	21.25	Pass	Horizontal

Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	Peak		



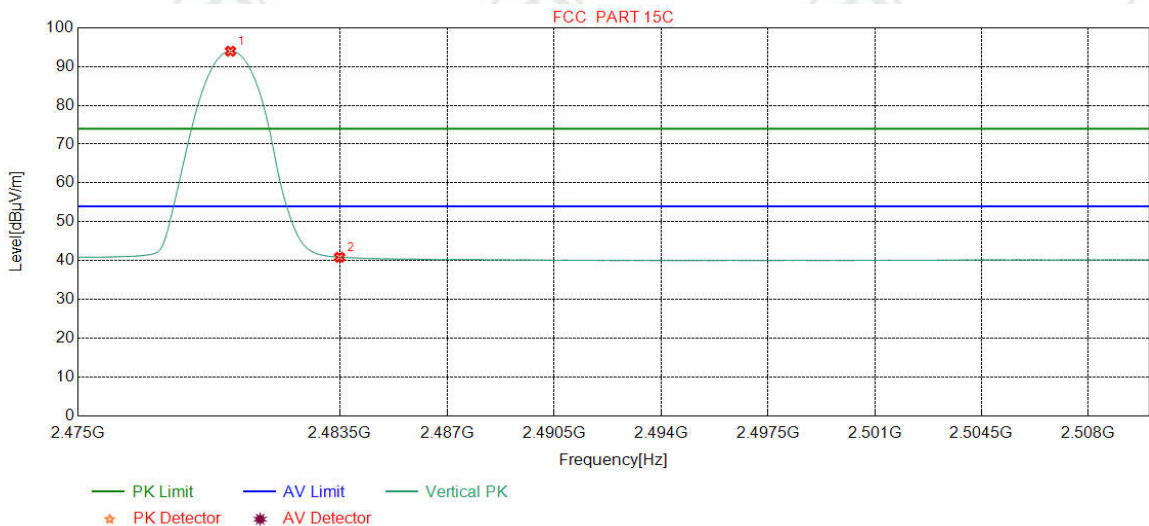
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2479.7747	32.37	13.39	-42.39	91.57	94.94	74.00	-20.94	Pass	Vertical
2	2483.5000	32.38	13.38	-42.40	49.94	53.30	74.00	20.70	Pass	Vertical

Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	Average		



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2479.9499	32.37	13.39	-42.39	90.69	94.06	54.00	-40.06	Pass	Horizontal
2	2483.5000	32.38	13.38	-42.40	37.48	40.84	54.00	13.16	Pass	Horizontal

Mode:	BLE GFSK Transmitting	Channel:	2480
Remark:	Average		



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2479.9499	32.37	13.39	-42.39	90.60	93.97	54.00	-39.97	Pass	Vertical
2	2483.5000	32.38	13.38	-42.40	37.47	40.83	54.00	13.17	Pass	Vertical

Note:  
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 - Correct Factor  
Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor



## Appendix I): Radiated Spurious Emissions

Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average

**Test Procedure:**

**Below 1GHz test procedure as below:**

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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 was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.

**Above 1GHz test procedure as below:**

- Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter (Above 18GHz the distance is 1 meter and table is 1.5 meter).
- Test the EUT in the lowest channel ,the middle channel ,the Highest channel
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.
- Repeat above procedures until all frequencies measured was complete.

Limit:	Frequency	Field strength (microvolt/meter)	Limit (dB $\mu$ V/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3

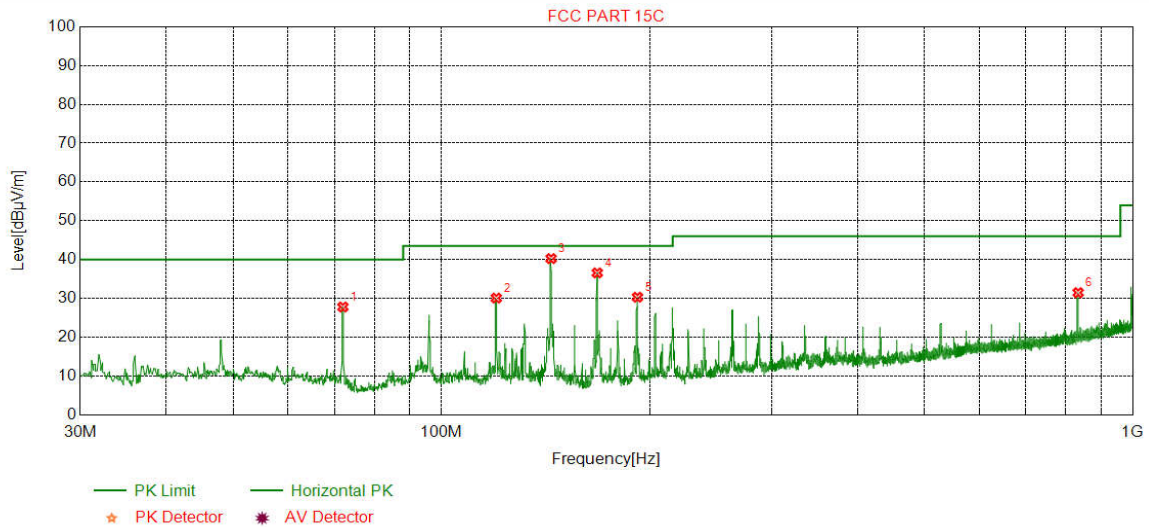
Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

**Radiated Spurious Emissions test Data:**

**Product** : SMART CONNECT GOLD REEL    **Model/Type reference** : SCR.V.2  
**Temperature** : 20°C    **Humidity** : 59%

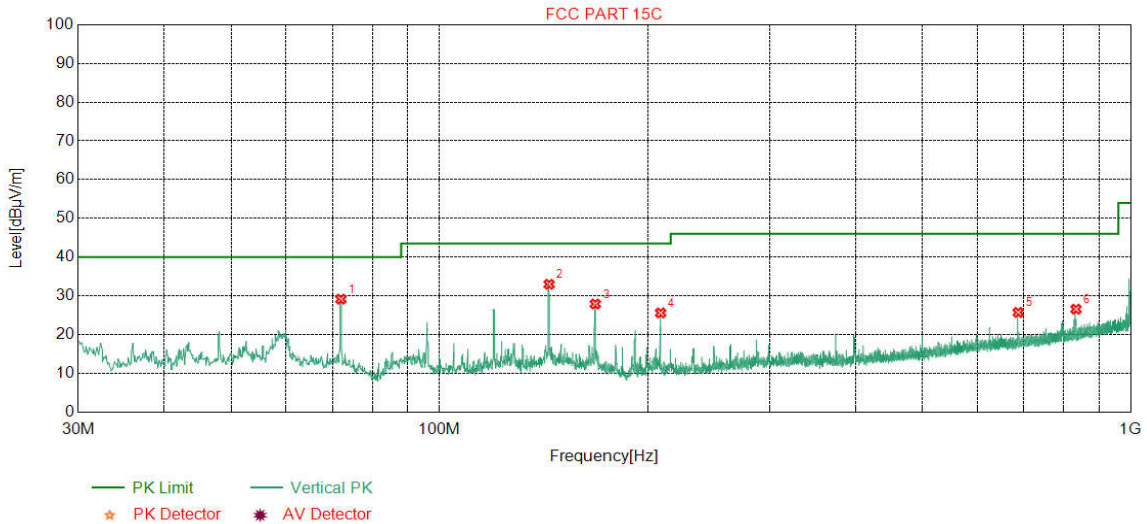
**Radiated Emission below 1GHz**

Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	QP		



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Magin [dB]	Result	Polarity
1	72.0052	8.62	0.97	-32.05	50.22	27.76	40.00	12.24	Pass	Horizontal
2	120.0250	9.20	1.30	-32.07	51.63	30.06	43.50	13.44	Pass	Horizontal
3	144.0834	7.34	1.41	-31.99	63.48	40.24	43.50	3.26	Pass	Horizontal
4	168.0448	8.34	1.52	-31.96	58.65	36.55	43.50	6.95	Pass	Horizontal
5	192.1032	10.15	1.62	-31.96	50.47	30.28	43.50	13.22	Pass	Horizontal
6	834.0164	21.31	3.48	-31.94	38.61	31.46	46.00	14.54	Pass	Horizontal

Mode:	BLE GFSK Transmitting	Channel:	2402
Remark:	QP		



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	72.0052	8.62	0.97	-32.05	51.58	29.12	40.00	10.88	Pass	Vertical
2	144.0834	7.34	1.41	-31.99	56.21	32.97	43.50	10.53	Pass	Vertical
3	168.0448	8.34	1.52	-31.96	49.98	27.88	43.50	15.62	Pass	Vertical
4	208.8859	11.13	1.71	-31.94	44.67	25.57	43.50	17.93	Pass	Vertical
5	687.5318	19.70	3.14	-32.06	34.91	25.69	46.00	20.31	Pass	Vertical
6	833.5314	21.30	3.48	-31.94	33.69	26.53	46.00	19.47	Pass	Vertical

**Transmitter Emission above 1GHz**

Mode:		BLE GFSK Transmitting			Channel:				2402		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Magin [dB]	Result	Polarity	Remark
1	1599.8600	29.06	3.07	-42.90	54.07	43.30	74.00	30.70	Pass	H	Peak
2	3297.0698	33.32	4.57	-41.94	49.60	45.55	74.00	28.45	Pass	H	Peak
3	4804.0000	34.50	4.55	-40.66	45.64	44.03	74.00	29.97	Pass	H	Peak
4	5935.5957	35.70	5.25	-41.04	46.87	46.78	74.00	27.22	Pass	H	Peak
5	7206.0000	36.31	5.81	-41.02	44.88	45.98	74.00	28.02	Pass	H	Peak
6	9608.0000	37.64	6.63	-40.76	44.55	48.06	74.00	25.94	Pass	H	Peak
7	1291.0291	28.19	2.74	-42.80	54.78	42.91	74.00	31.09	Pass	V	Peak
8	2508.5509	32.41	4.04	-42.38	56.81	50.88	74.00	23.12	Pass	V	Peak
9	4804.0000	34.50	4.55	-40.66	45.62	44.01	74.00	29.99	Pass	V	Peak
10	5991.4994	35.79	5.34	-41.09	47.91	47.95	74.00	26.05	Pass	V	Peak
11	7206.0000	36.31	5.81	-41.02	45.05	46.15	74.00	27.85	Pass	V	Peak
12	9608.0000	37.64	6.63	-40.76	45.11	48.62	74.00	25.38	Pass	V	Peak

Mode:		BLE GFSK Transmitting			Channel:				2440		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Magin [dB]	Result	Polarity	Remark
1	1302.8303	28.20	2.75	-42.78	54.69	42.86	74.00	31.14	Pass	H	Peak
2	2374.3374	32.22	3.89	-42.44	57.28	50.95	74.00	23.05	Pass	H	Peak
3	4880.0000	34.50	4.80	-40.60	45.38	44.08	74.00	29.92	Pass	H	Peak
4	6356.8238	35.87	5.44	-41.16	47.64	47.79	74.00	26.21	Pass	H	Peak
5	7320.0000	36.42	5.85	-40.92	45.45	46.80	74.00	27.20	Pass	H	Peak
6	9760.0000	37.70	6.73	-40.62	44.79	48.60	74.00	25.40	Pass	H	Peak
7	1597.2597	29.04	3.07	-42.89	59.17	48.39	74.00	25.61	Pass	V	Peak
8	2589.7590	32.54	4.10	-42.34	56.56	50.86	74.00	23.14	Pass	V	Peak
9	4880.0000	34.50	4.80	-40.60	46.07	44.77	74.00	29.23	Pass	V	Peak
10	6350.9734	35.87	5.46	-41.16	48.41	48.58	74.00	25.42	Pass	V	Peak
11	7320.0000	36.42	5.85	-40.92	44.93	46.28	74.00	27.72	Pass	V	Peak
12	9760.0000	37.70	6.73	-40.62	45.72	49.53	74.00	24.47	Pass	V	Peak

Mode:		BLE GFSK Transmitting			Channel:				2480		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Magin [dB]	Result	Polarity	Remark
1	1598.2598	29.05	3.07	-42.90	54.77	43.99	74.00	30.01	Pass	H	Peak
2	2523.3523	32.44	4.06	-42.38	56.59	50.71	74.00	23.29	Pass	H	Peak
3	4960.0000	34.50	4.82	-40.53	45.70	44.49	74.00	29.51	Pass	H	Peak
4	6317.8212	35.86	5.46	-41.15	47.91	48.08	74.00	25.92	Pass	H	Peak
5	7440.0000	36.54	5.85	-40.82	45.76	47.33	74.00	26.67	Pass	H	Peak
6	9920.0000	37.77	6.79	-40.48	45.97	50.05	74.00	23.95	Pass	H	Peak
7	1302.0302	28.20	2.75	-42.78	56.93	45.10	74.00	28.90	Pass	V	Peak
8	2599.1599	32.56	4.10	-42.34	55.47	49.79	74.00	24.21	Pass	V	Peak
9	4960.0000	34.50	4.82	-40.53	46.67	45.46	74.00	28.54	Pass	V	Peak
10	5986.9491	35.78	5.33	-41.07	49.23	49.27	74.00	24.73	Pass	V	Peak
11	7440.0000	36.54	5.85	-40.82	45.08	46.65	74.00	27.35	Pass	V	Peak
12	9920.0000	37.77	6.79	-40.48	45.65	49.73	74.00	24.27	Pass	V	Peak

**Note:**

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 - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

2) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

## PHOTOGRAPHS OF TEST SETUP

Test model No.: SCR.V.2



**Radiated spurious emission Test Setup-1(Below 30MHz)**



**Radiated spurious emission Test Setup-2(Below 1GHz)**



**Radiated spurious emission Test Setup-3(Below 1GHz for Close-up)**



**Radiated spurious emission Test Setup-4(Above 1GHz)**



**Radiated spurious emission Test Setup-5(Above 1GHz for Close-up)**



**Conducted Emissions Test Setup**



## PHOTOGRAPHS OF EUT Constructional Details

Test model No.: SCR.V.2



View of Product-1



View of Product-2



View of Product-3



View of Product-4



View of Product-5



View of Product-6



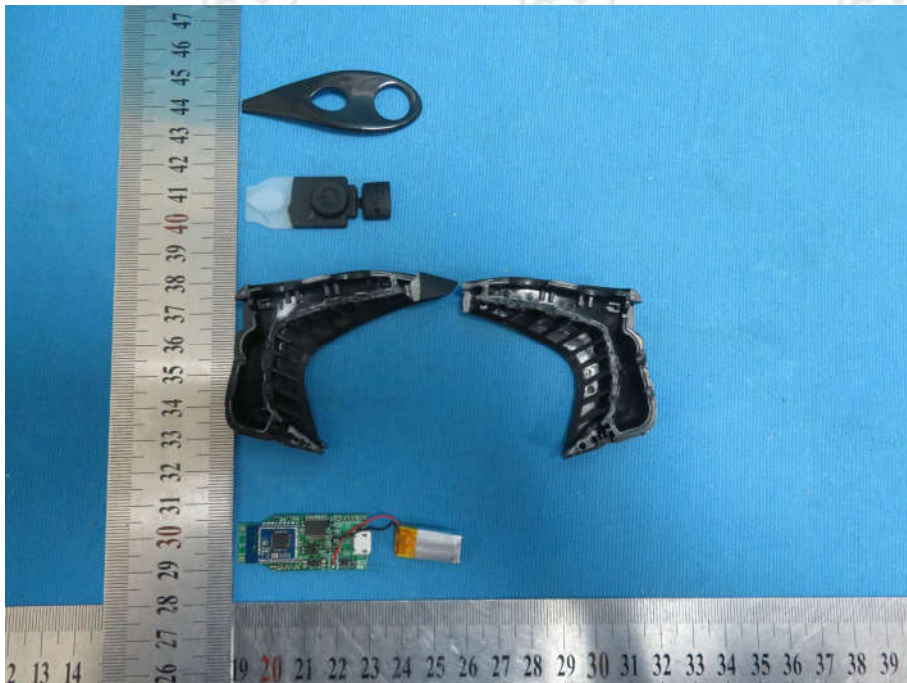
View of Product-7



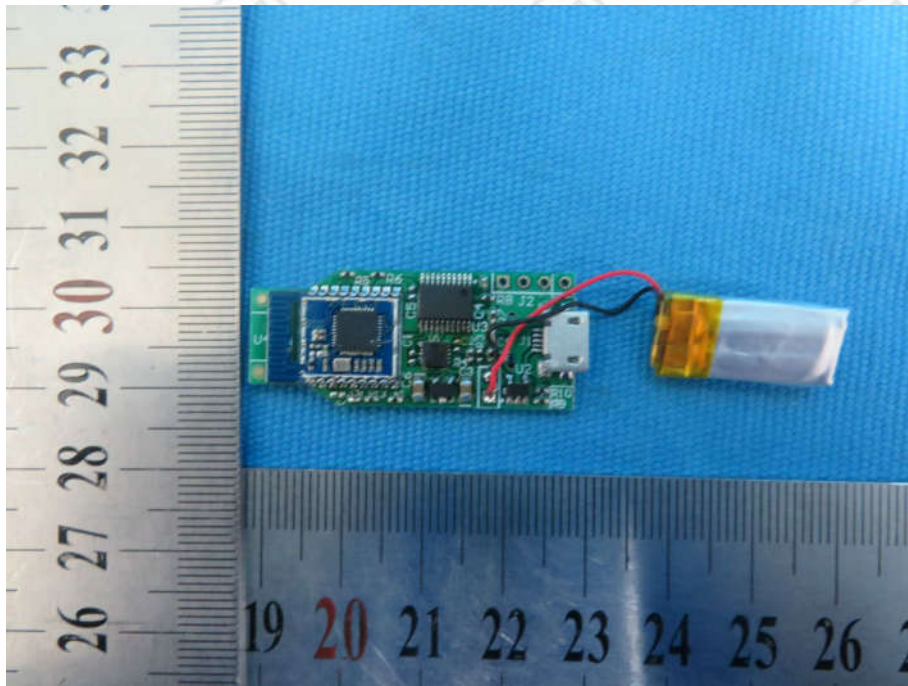
View of Product-8



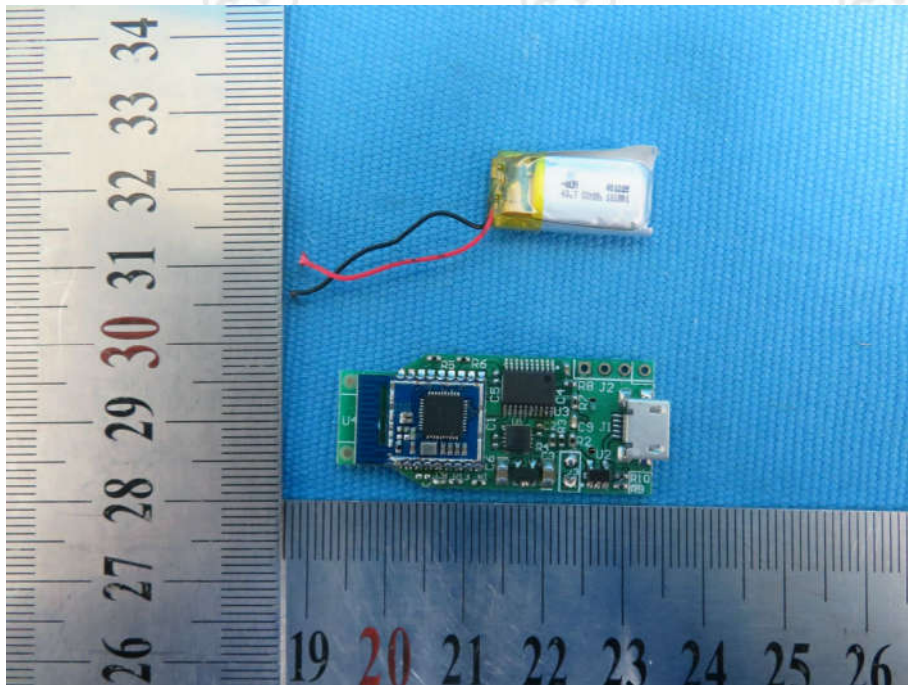
View of Product-9



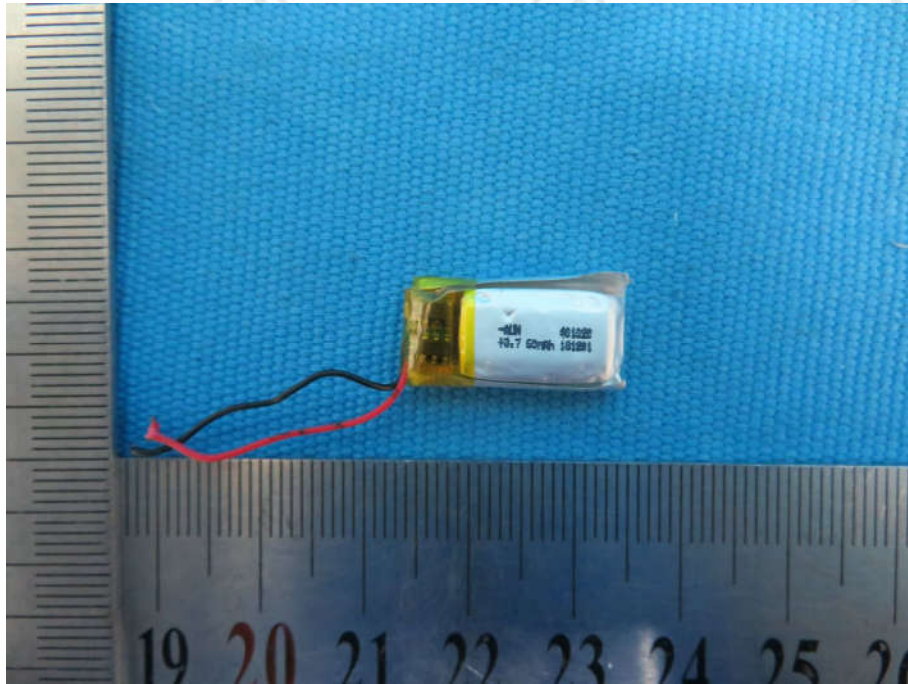
View of Product-10



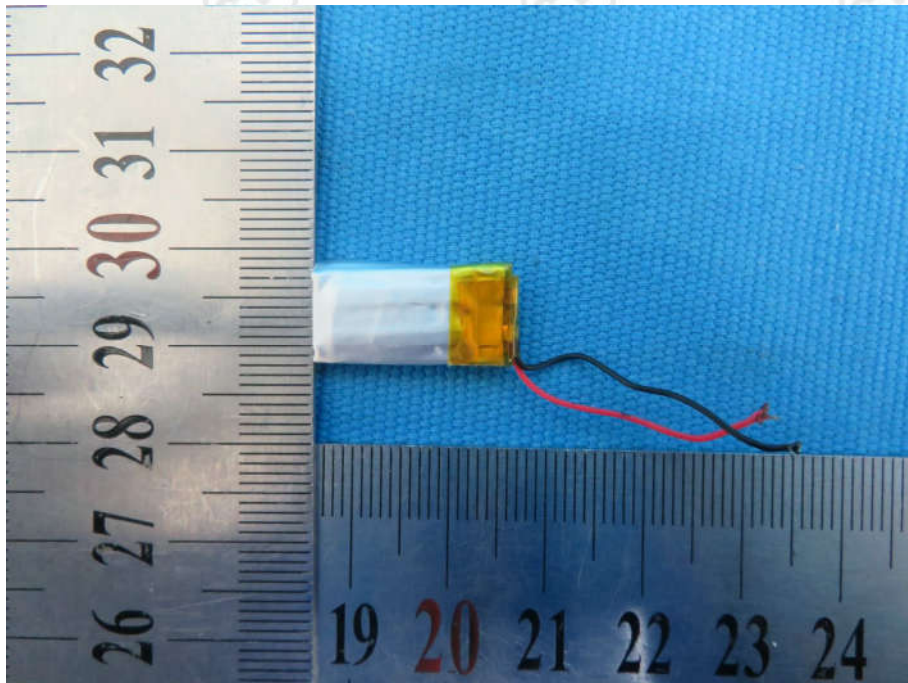
View of Product-11



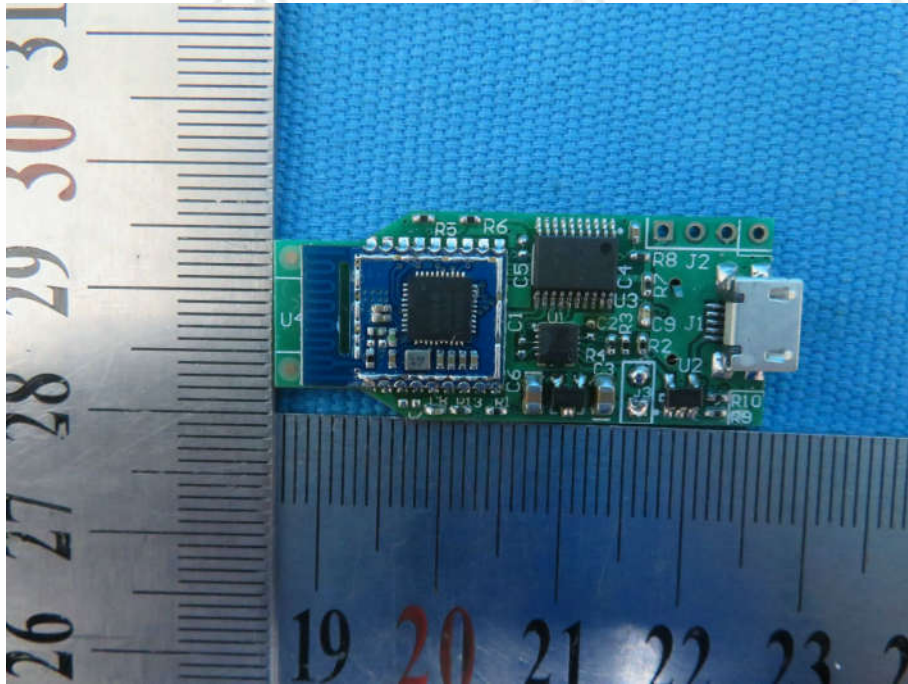
View of Product-12



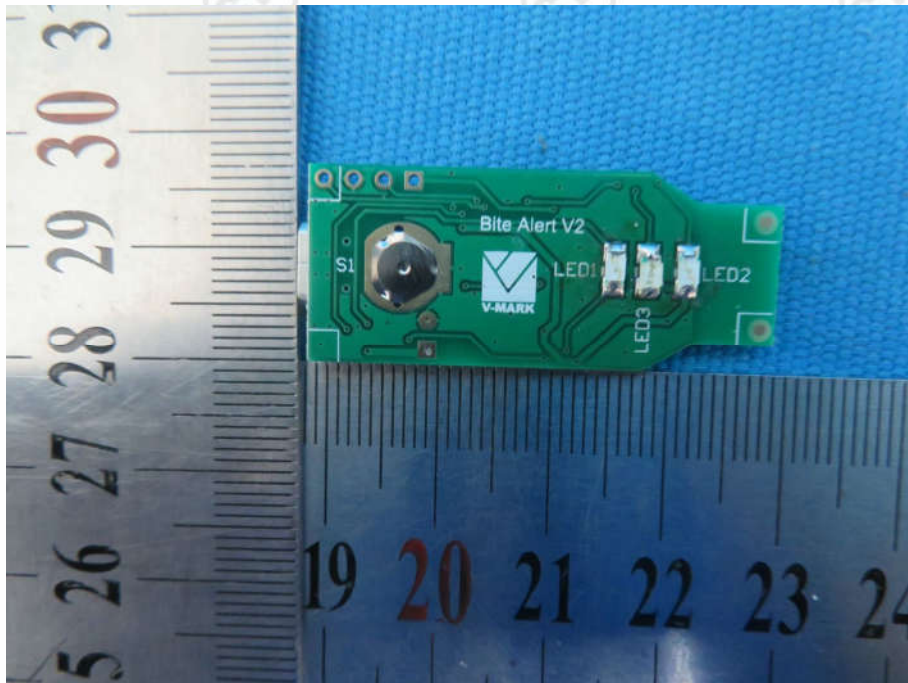
View of Product-13



View of Product-14

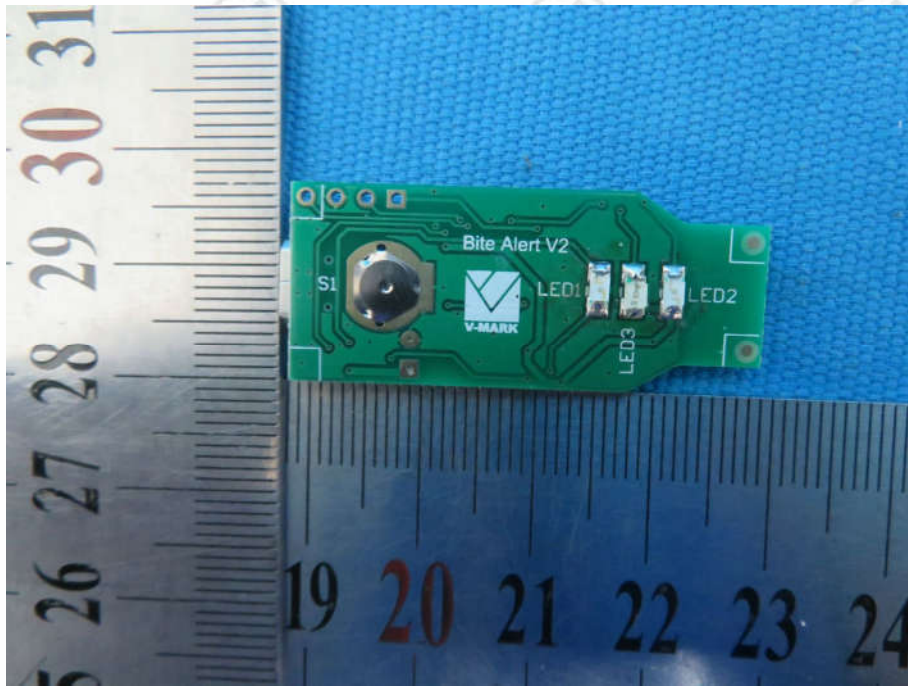


View of Product-15

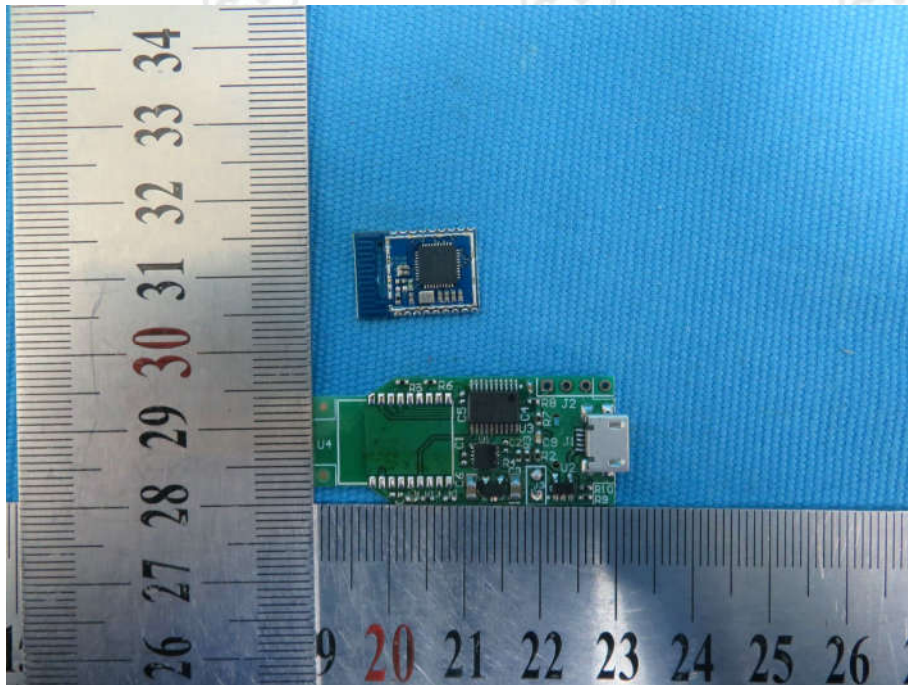


View of Product-16

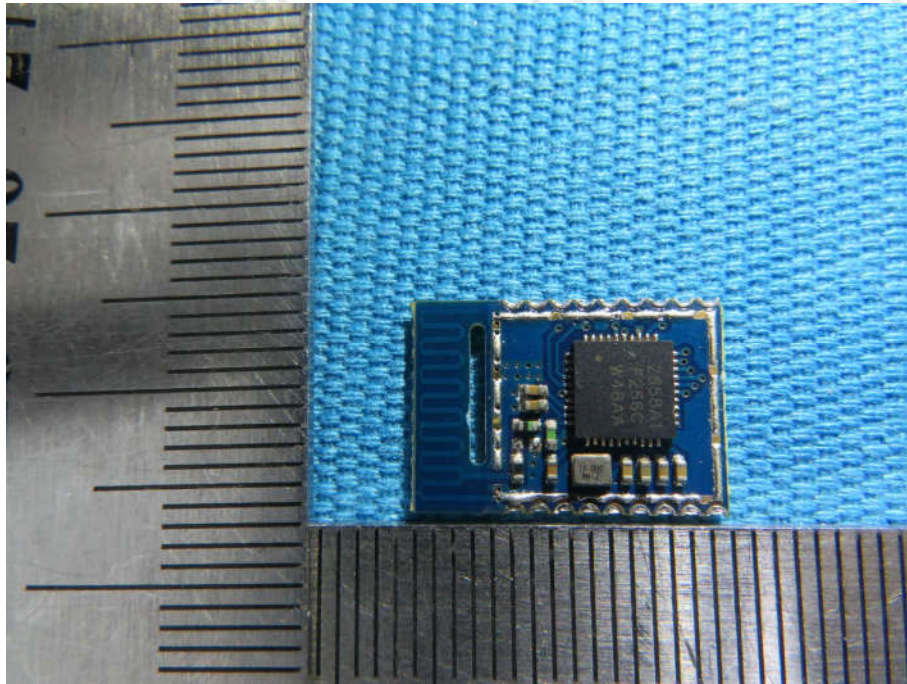




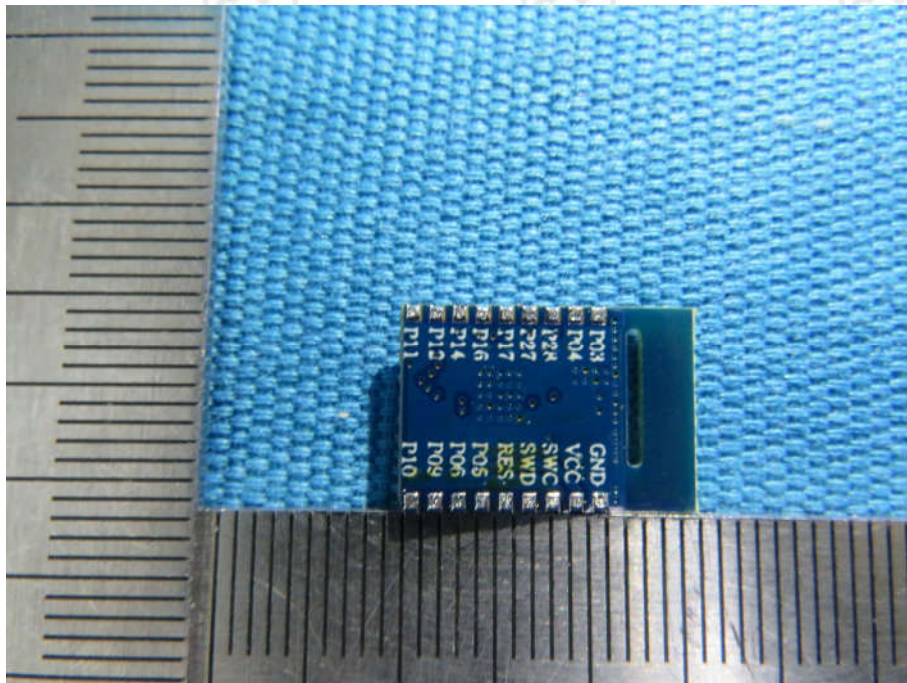
View of Product-17



View of Product-18



View of Product-19



View of Product-20

\*\*\* End of Report \*\*\*

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