

Report No. : EED32K00096701

Product

FCC ID

Trade mark

**Report Number** 

Date of Issue

**Test result** 

**Test Standards** 



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## TEST REPORT

- Slimbuds Bluetooth Headset EAOS Model/Type reference SB001 N/A **Serial Number** 
  - EED32K00096701
  - 2APROEAOS001
  - May 04, 2018 2
  - 47 CFR Part 15 Subpart C
  - PASS

Prepared for: EAOS LLC

2025 Washington Ave, Philadelphia, PA, 19146, United States

Prepared by: Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China TEL: +86-755-3368 3668 FAX: +86-755-3368 3385

Tom- chen Tested By: even Nan Tom chen (Test Project) Kevin Ian (Project Engineer) Reviewed by: reum Sheek Luo (Lab supervisor) Kevin yang (Reviewer) Report Seal May 04, 2018 Date: Check No.:3096311401



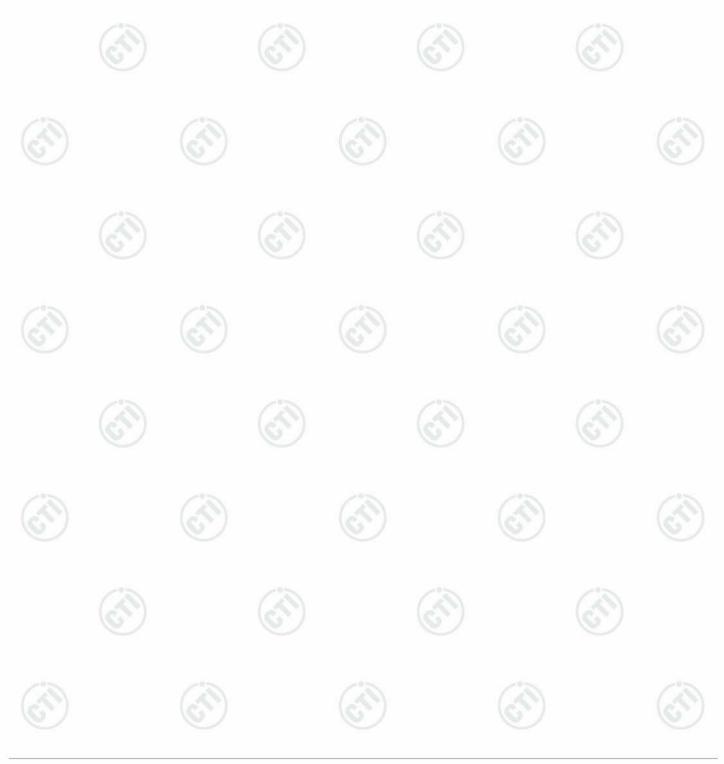
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## 2 Version



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Version No.	Date	Description	
00	May 04, 2018	Original	
	a /a		
1		(c <sup>2</sup> )	









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### 3 Test Summary

i oot o anna y			
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)(1)	ANSI C63.10-2013	PASS
20dB Occupied Bandwidth	47 CFR Part 15 Subpart C Section 15.247 (a)(1)	ANSI C63.10-2013	PASS
Carrier Frequencies Separation	47 CFR Part 15 Subpart C Section 15.247 (a)(1)	ANSI C63.10-2013	PASS
Hopping Channel Number	47 CFR Part 15 Subpart C Section 15.247 (b)	ANSI C63.10-2013	PASS
Dwell Time	47 CFR Part 15 Subpart C Section 15.247 (a)(1)	ANSI C63.10-2013	PASS
Pseudorandom Frequency Hopping Sequence	47 CFR Part 15 Subpart C Section 15.247(b)(4)&TCB Exclusion List (7 July 2002)	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

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.





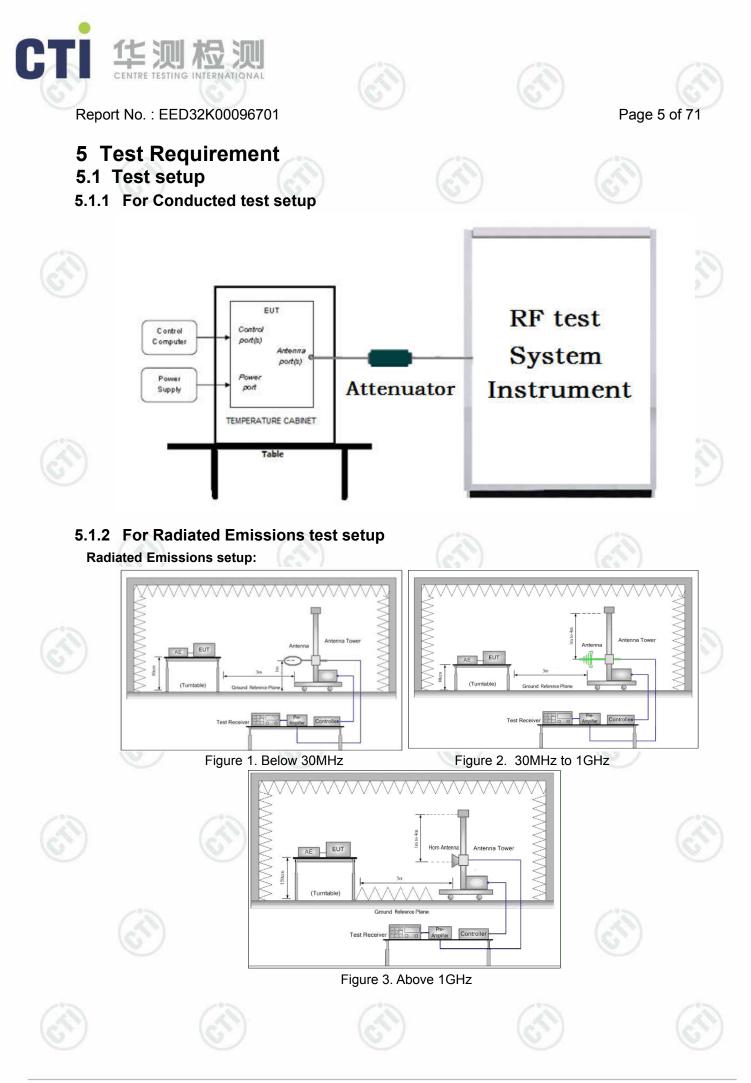
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#### 4 Content 1 COVER PAGE 6.1 CLIENT INFORMATION 7



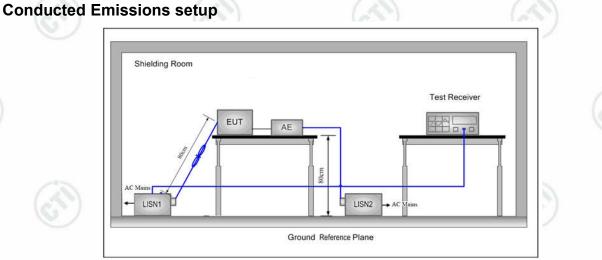






## 5.1.3 For Conducted Emissions test setup





#### 5.2 Test Environment

Operating Environ	nent:		C
Temperature:	25.5 °C		
Humidity:	59 % RH		
Atmospheric Pressure:	1010mbar		
	63	A 3	AN

### 5.3 Test Condition

	Test Mode	Test Mode Tx/Rx		RF Channel		
_	Test Mode		Low(L)	Middle(M)	High(H)	
3	GFSK/π/4DQPSK/	2402MHz ~2480 MHz	Channel 1	Channel 40	Channel79	
2	8DPSK(DH1,DH3,DH5)	240210HZ ~2480 10HZ	2402MHz	2441MHz	2480MHz	

Test mode:

Pre-scan under all rate at lowest channel 1

Mode		GFSK	
packets	1-DH1	1-DH3	1-DH5
EIRP(dBm)	2.985	3.100	3.181
Mode		π/4DQPSK	
packets	2-DH1	2-DH3	2-DH5
EIRP(dBm)	2.895	2.994	3.010
Mode	$(\mathcal{C})$	8DPSK	67)
packets	3-DH1	3-DH3	3-DH5
EIRP(dBm)	3.101	3.132	3.142

Through Pre-scan, 1-DH5 packet the power is the worst case of GFSK, 2-DH5 packet the power is the worst case of  $\pi$ /4DQPSK, 3-DH5 packet the power is the worst case of 8DPSK.



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#### **General Information** 6 6.1 Client Information

Applicant:	EAOS LLC
Address of Applicant:	2025 Washington Ave, Philadelphia, PA, 19146, United States
Manufacturer:	SHENZHEN AONI ELECTRONIC CO, LTD
Address of Manufacturer:	No.5 Bldg, Honghui Industrial park, 2 <sup>nd</sup> liuxian Road, Xinan street, Baoan District, Shenzhen
Factory:	SHENZHEN AONI ELECTRONIC CO, LTD
Address of Factory:	No.5 Bldg, Honghui Industrial park, 2 <sup>nd</sup> liuxian Road, Xinan street, Baoan District, Shenzhen

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#### 6.2 General Description of EUT

Product Name:	Slimbuds Bluetooth Headset		
Model No.(EUT):	SB001		
Trade mark:	EAOS		
EUT Supports Radios application:	BT4.1 Signal mode, 2402-2480MHz		61
Hardware Version:	2.0(manufacturer declare )		$\sim$
Firmware version:	1.0(manufacturer declare )		
Power Supply:	Battery: 3.7V, 90mAh		
Sample Received Date:	Apr. 20, 2018	0	
Sample tested Date:	Apr. 20, 2018 to May 03, 2018		

### 6.3 Product Specification subjective to this standard

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	BT4.1 Signal mode
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Sample Type:	Portable Production
Test Power Grade:	N/A
Test Software of EUT:	(manufacturer declare)CSR BlueTest3
Antenna Type and Gain:	Type: Integral Antenna; Gain:-1.39dBi
Test Voltage:	DC 5V

### 6.4 Description of Support Units

The EUT has been tested independently.







## 6.5 Test Location

All tests were performed at: Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China518101 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)

	<b>J</b> ( <b>-</b>	<i>, ,</i>
No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9 x 10 <sup>-8</sup>
2		0.31dB (30MHz-1GHz)
2	RF power, conducted	0.57dB (1GHz-18GHz)
3	Redicted Sourieus emission test	4.5dB (30MHz-1GHz)
3	Radiated Spurious emission test	4.8dB (1GHz-12.75GHz)
4	Conduction emission	3.6dB (9kHz to 150kHz)
4	Conduction emission	3.2dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	2.8%
7	DC power voltages	0.025%













## 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	FL3CX03WG 18NM12- 0398-002		01-10-2018	01-09-2019	
DC Power	Keysight	E3642A	MY54426035	03-13-2018	03-12-2019	
power meter & power sensor	R&S	OSP120	101374	03-13-2018	03-12-2019	
RF control unit	JS Tonscend	JS0806-2	158060006	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	Defu	TH128		07-08-2017	07-07-2018	

3M Semi/full-anechoic Chamber							
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)		
3MChamber&Accessory Equipment	ТДК	SAC-3		06-04-2016	06-03-2019		
Spectrum Analyzer	Agilent	E4443A	MY45300910	11-16-2017	11-15-2018		
Receiver	R&S	ESCI	100435	06-14-2017	06-13-2018		
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-618	08-15-2017	08-14-2018		
Spectrum Analyzer	R&S	FSP40	100416	06-13-2017	06-12-2018		
Microwave Preamplifier	JS Tonscend	EMC051845 SE	980380	01-19-2018	01-18-2019		
Loop Antenna	ETS-LINDGREN	6502	00071730	06-22-2017	06-21-2019		
Horn Antenna	ETS-LINGREN	3117	00057407	07-20-2015	07-18-2018		
Double ridge horn antenna	A.H.SYSTEMS	SAS-574	6042	06-30-2015	06-28-2018		
Pre-amplifier	A.H.SYSTEMS	PAP-1840-60	6041	06-30-2015	06-28-2018		
Temperature/ Humidity Indicator	TAYLOR	1451	1905	05-08-2017	05-07-2018		



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Conducted disturbance Test							
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)		
Receiver	R&S	ESCI	100009	06-14-2017	06-13-2018		
Temperature/ Humidity Indicator	TAYLOR	1451	1905	05-08-2017	05-07-2018		
LISN	schwarzbeck	NNLK8121	8121-529	06-13-2017	06-12-2018		







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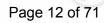
## 8 Radio Technical Requirements Specification

### Reference documents for testing:

No.	Identity		Document Title					
1	FCC Part18			onal Radiators				
2	ANSI C63.10-			erican National Standard for Testing Unlicesed Wireless Devices				
st R	esults List:	e).	( <i>č</i> )	(75) (75)		6		
Test	requirement	Т	est method	Test item	Verdict	Note		
	15C Section .247 (a)(1)	Ą	NSI 63.10	20dB Occupied Bandwidth	PASS	Appendix A		
	15C Section .247 (a)(1)	A	NSI 63.10	Carrier Frequencies Separation	PASS	Appendix B		
	15C Section 247 (a)(1)	A	NSI 63.10	Dwell Time	PASS	Appendix C		
	15C Section 5.247 (b)	4	NSI 63.10	Hopping Channel Number	PASS	Appendix D		
	15C Section .247 (b)(1)	Δ	NSI 63.10	Conducted Peak Output Power	PASS	Appendix E		
	15C Section 5.247(d)	A	NSI 63.10	Band-edge for RF Conducted Emissions	PASS	Appendix F		
	15C Section 5.247(d)	A	NSI 63.10	RF Conducted Spurious Emissions	PASS	Appendix G		
	15C Section 247 (a)(1)	2	NSI 63.10	Pseudorandom Frequency Hopping Sequence	PASS	Appendix H		
	15C Section 03/15.247 (c)	A	NSI 63.10	Antenna Requirement	PASS	Appendix I		
Part	15C Section 15.207	Ą	NSI 63.10	AC Power Line Conducted Emission	PASS	Appendix J		
	15C Section 205/15.209		NSI 63.10	Restricted bands around fundamental frequency (Radiated) Emission)	PASS	Appendix K		
	15C Section 205/15.209	Ą	NSI 63.10	Radiated Spurious Emissions	PASS	Appendix L		
1	<u></u>				13	N		







## Appendix A): 20dB Occupied Bandwidth

Mode	Channel.	20dB Bandwidth [MHz]	99% OBW [MHz]	Verdict	Remarl
GFSK	LCH	0.9499	0.86513	PASS	13
GFSK	MCH	0.9501	0.86154	PASS	68
GFSK	НСН	0.9491	0.86146	PASS	
π/4DQPSK	LCH	1.270	1.1713	PASS	Deek
π/4DQPSK	МСН	1.228	1.1629	PASS	Peak
π/4DQPSK	НСН	1.225	1.1631	PASS	detecto
8DPSK	LCH	1.282	1.1640	PASS	-
8DPSK	MCH	1.262	1.1522	PASS	
8DPSK	НСН	1.256	1.1517	PASS	12



































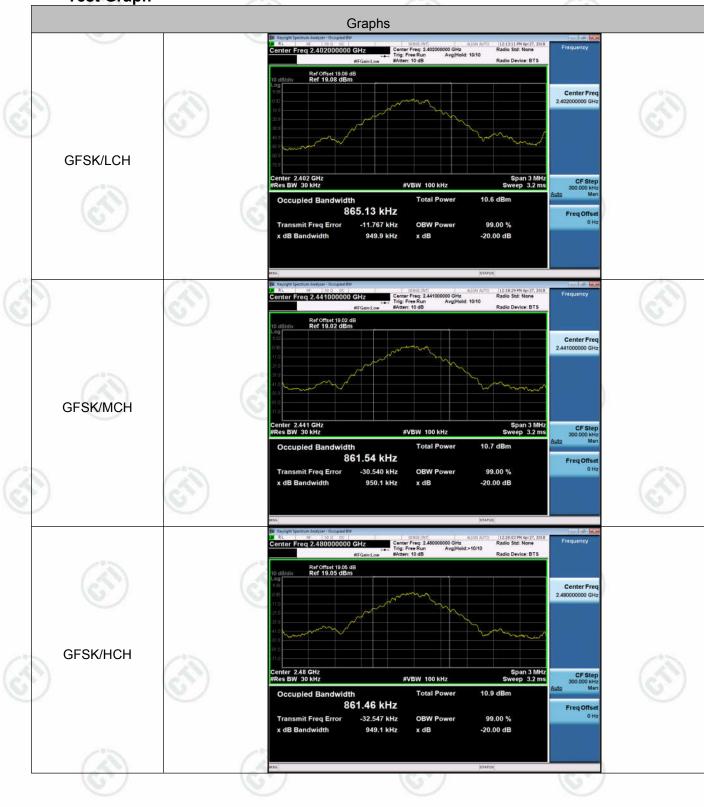






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Test Graph











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## **Appendix B): Carrier Frequency Separation**

Result Tab	le 🔝	*) (AS*)	(3)
Mode	Channel.	Carrier Frequency Separation [MHz]	Verdict
GFSK	LCH	1.010	PASS
GFSK	МСН	0.962	PASS
GFSK	НСН	1.124	PASS
π/4DQPSK	LCH	1.186	PASS
π/4DQPSK	МСН	1.138	PASS
π/4DQPSK	нсн	0.998	PASS
8DPSK	LCH	1.162	PASS
8DPSK	МСН	0.966	PASS
8DPSK	НСН	1.096	PASS









































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Test Graph



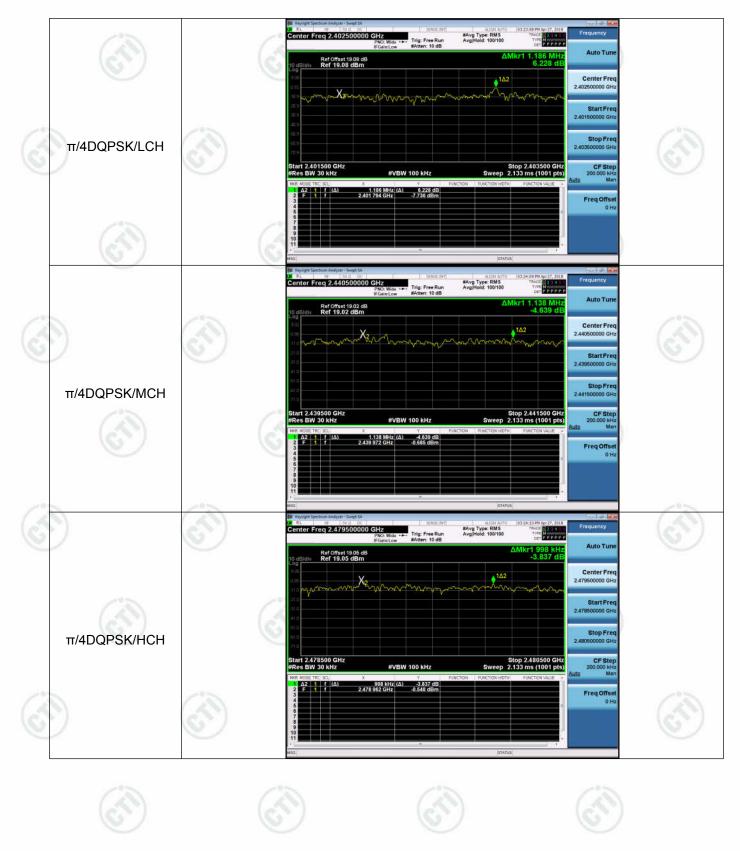








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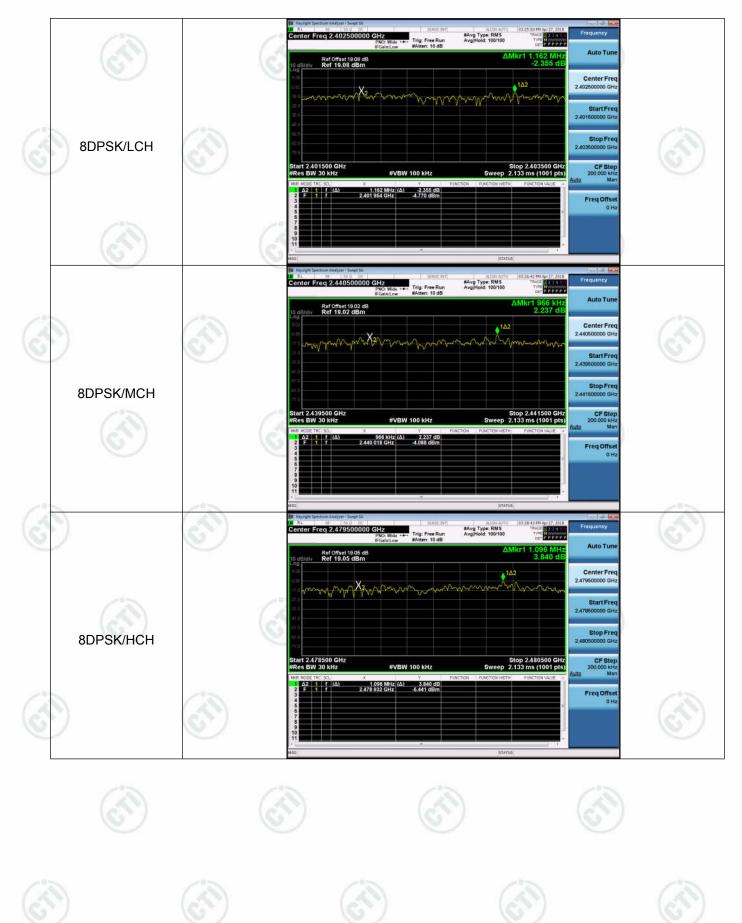








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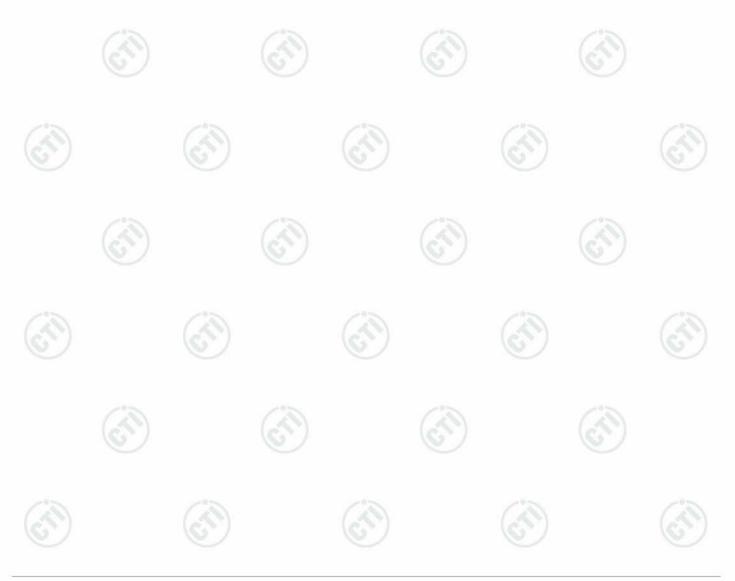
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## Appendix C): Dwell Time

	Resu	It Table		$(\mathcal{A})$			$(\mathcal{S})$	
I	Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Duty Cycle [%]	Verdict
0	GFSK	DH1	LCH	0.409133	320	0.131	0.33	PASS
(	GFSK	DH1	МСН	0.4091333	320	0.131	0.33	PASS
(	GFSK	DH1	НСН	0.409134	320	0.131	0.33	PASS
(	GFSK	DH3	LCH	1.6644	160	0.266	0.67	PASS
(	GFSK	DH3	МСН	1.664397	160	0.266	0.67	PASS
(	GFSK	DH3	НСН	1.665663	160	0.267	0.67	PASS
(	GFSK	DH5	LCH	2.898	106.7	0.309	0.77	PASS
(	GFSK	DH5	MCH	2.8888	106.7	0.308	0.77	PASS
	GFSK	DH5	НСН	2.898	106.7	0.309	0.77	PASS

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Remark : All modes are tested, only the worst mode GFSK is reported.



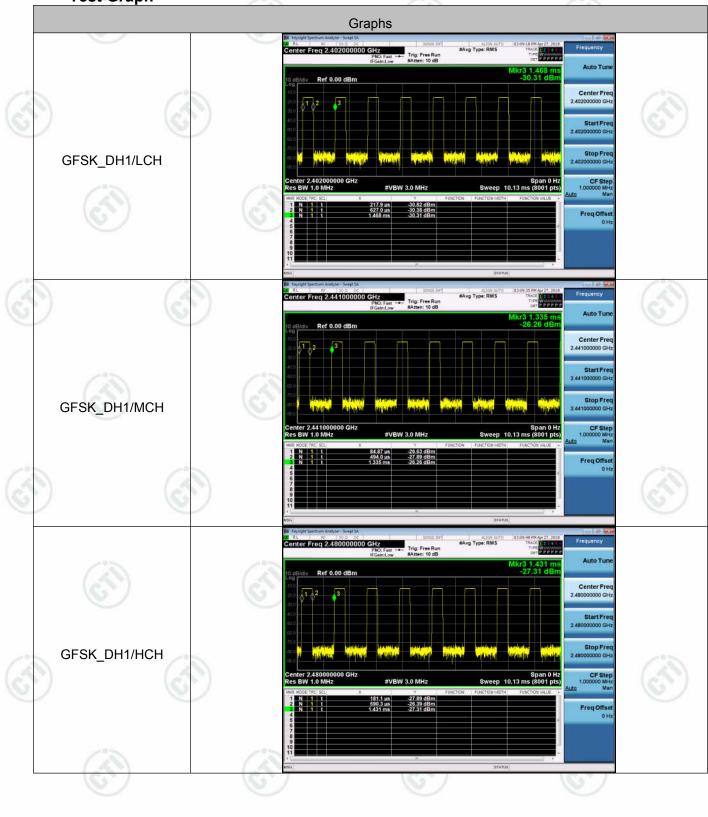






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Test Graph











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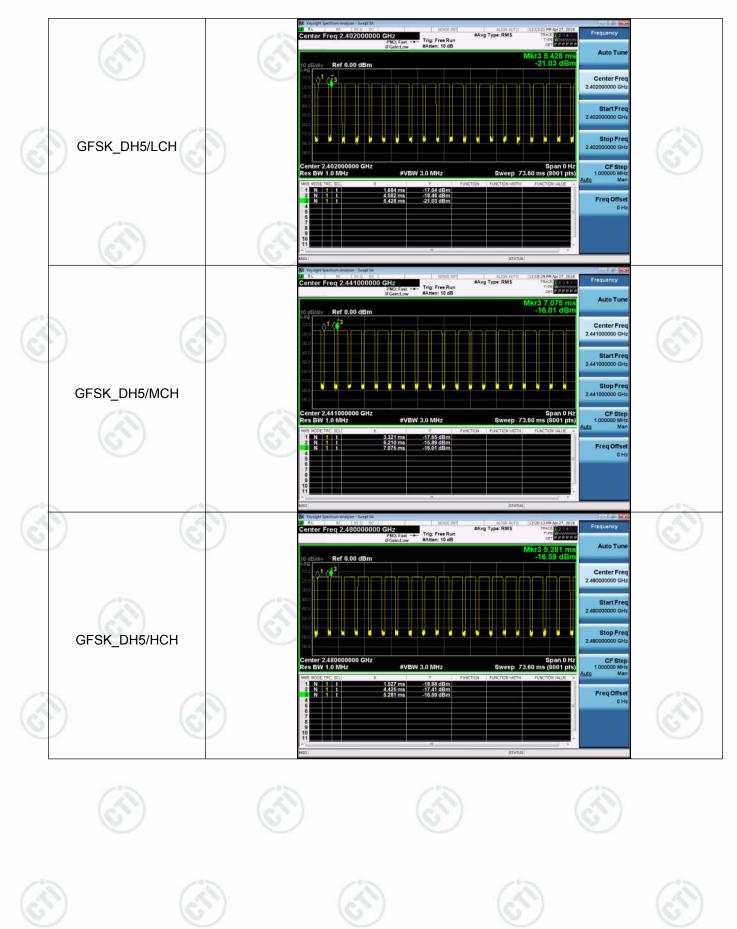








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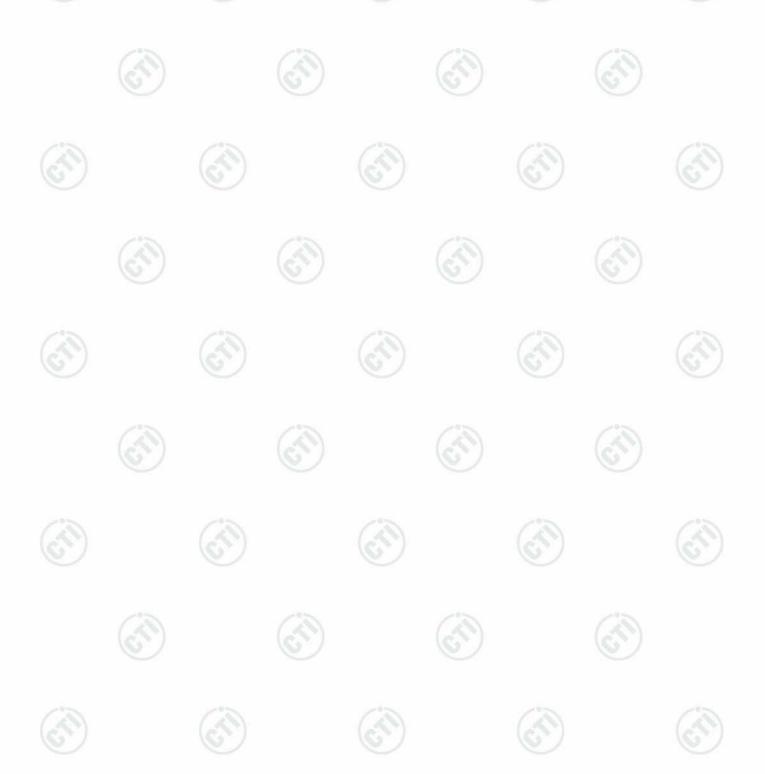


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## Appendix D): Hopping Channel Number

Result Table							
Mode	Channel.	Number of Hopping Channel	Verdict				
GFSK	Нор	79	PASS				
π/4DQPSK	Нор	79	PASS				
8DPSK	Нор	79	PASS				



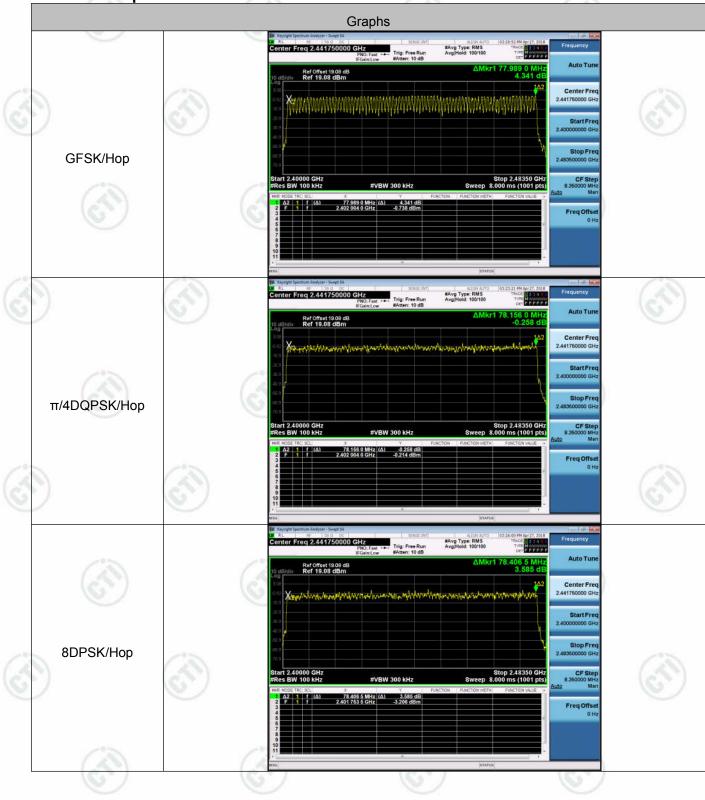






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Test Graph









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## Appendix E): Conducted Peak Output Power

Result Tab	le 🔝		(3)
Mode	Channel.	Maximum Peak Output Power [dBm]	Verdict
GFSK	LCH	3.181	PASS
GFSK	MCH	3.531	PASS
GFSK	НСН	3.644	PASS
π/4DQPSK	LCH	3.010	PASS
π/4DQPSK	MCH	3.006	PASS
π/4DQPSK	НСН	2.954	PASS
8DPSK	LCH S	3.142	PASS
8DPSK	MCH	3.092	PASS
8DPSK	НСН	3.144	PASS



































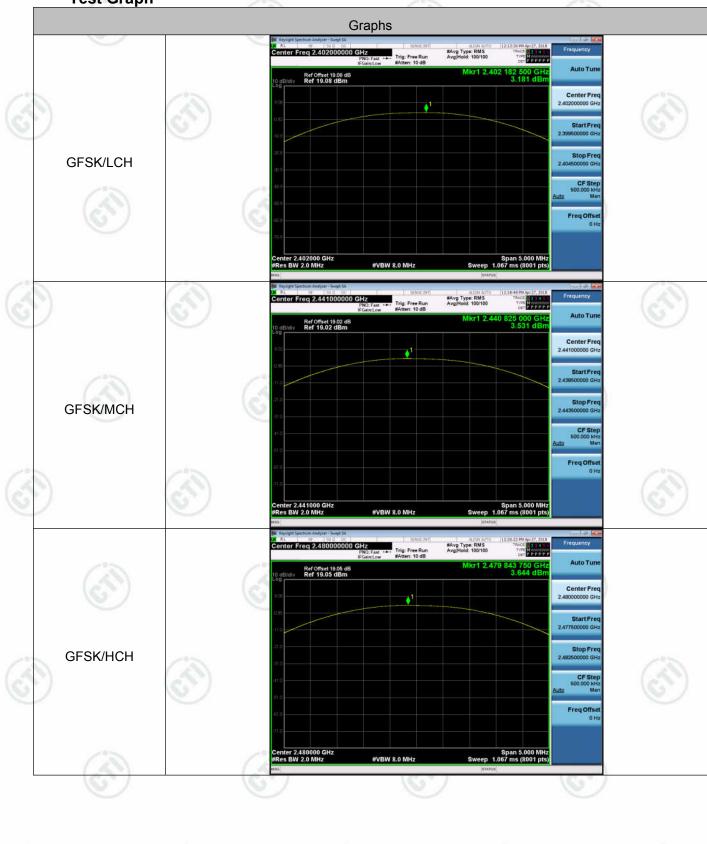






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Test Graph



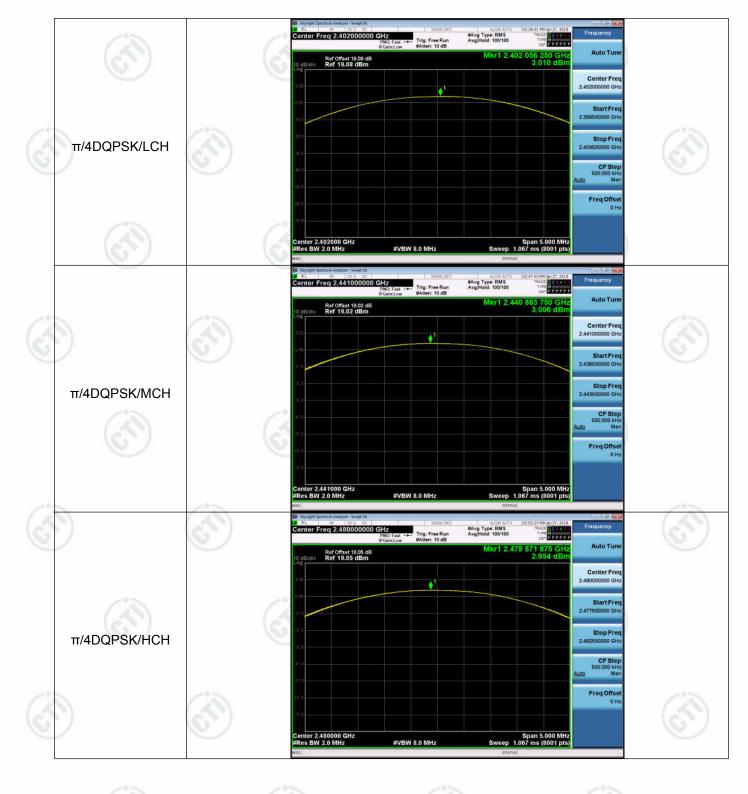








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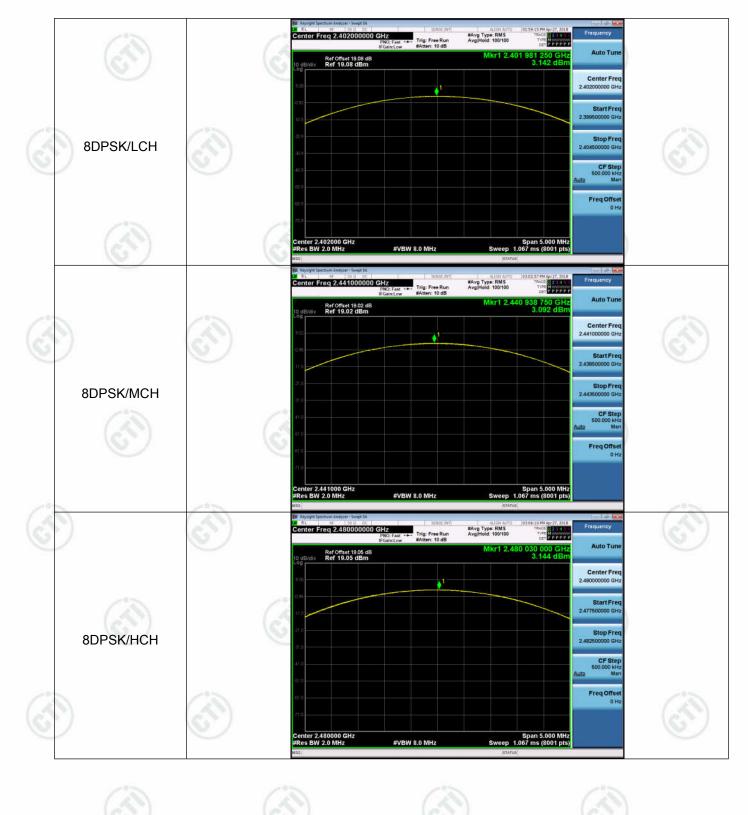








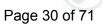
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## Appendix F): Band-edge for RF Conducted Emissions

	Result T	able	$(\mathcal{A})$		(2)	(	20	
	Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
Ľ	0501/			2.952	Off	-60.815	-17.05	PASS
	GFSK	LCH	2402	1.489	On	-60.510	-18.51	PASS
	0.50			3.356	Off	-56.017	-16.64	PASS
	GFSK	HCH	2480	3.216	On	-55.660	-16.78	PASS
			0.400	1.699	Off	-60.979	-18.3	PASS
	π/4DQPSK	LCH	2402	1.493	On	-59.139	-18.51	PASS
12			0.400	1.237	Off	-59.115	-18.76	PASS
6	π/4DQPSK	HCH	2480	2.281	On	-56.043	-17.72	PASS
	0000/		0.400	1.677	Off	-61.014	-18.32	PASS
	8DPSK	LCH 2402	2402	0.348	On	-59.897	-19.65	PASS
	appor		0400	1.158	Off	-58.867	-18.84	PASS
	8DPSK	HCH	2480	2.298	On	-57.531	-17.70	PASS











Test Graph











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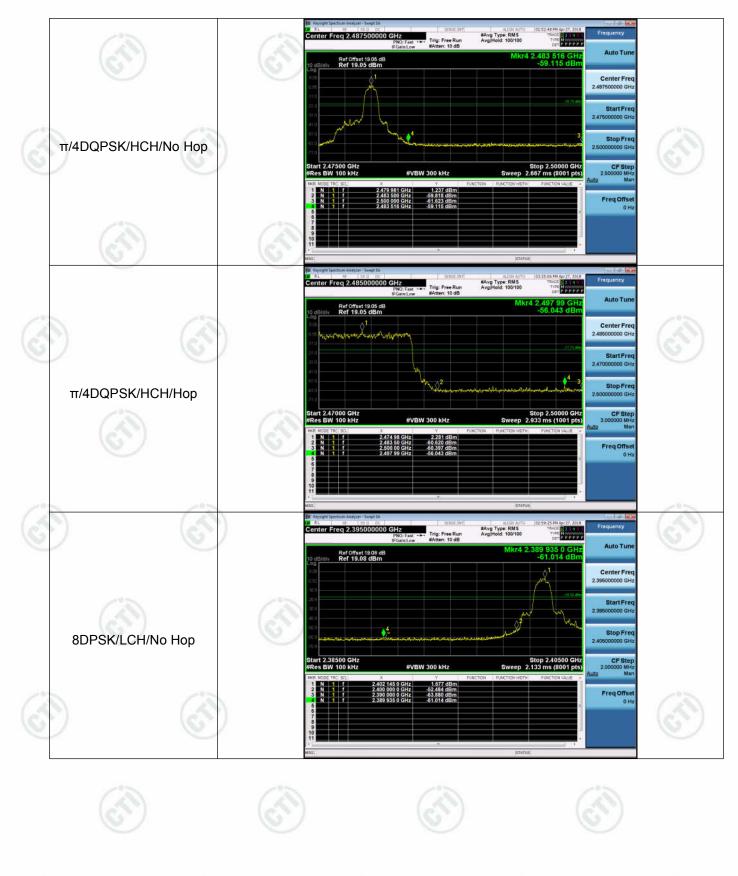








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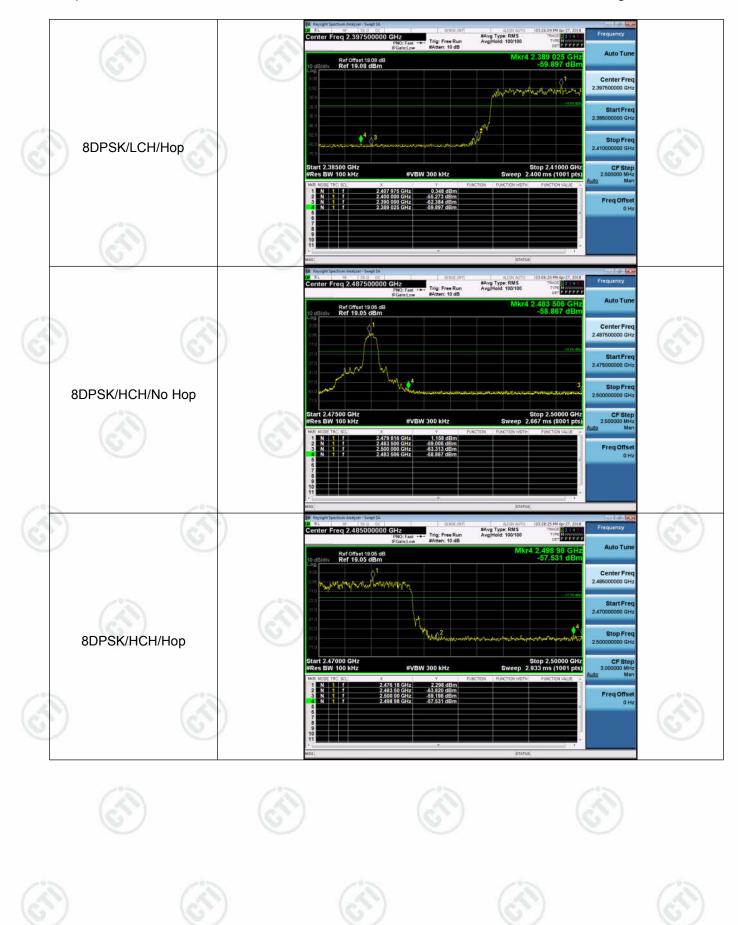








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## Appendix G): RF Conducted Spurious Emissions

Result Tab	le	(2)		<u>(S)</u>
Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
GFSK	LCH	2.917	<limit< td=""><td>PASS</td></limit<>	PASS
GFSK	МСН	3.044	<limit< td=""><td>PASS</td></limit<>	PASS
GFSK	НСН	3.258	<limit< td=""><td>PASS</td></limit<>	PASS
π/4DQPSK	LCH	1.688	<limit< td=""><td>PASS</td></limit<>	PASS
π/4DQPSK	МСН	1.446	<limit< td=""><td>PASS</td></limit<>	PASS
π/4DQPSK	нсн	1.250	<limit< td=""><td>PASS</td></limit<>	PASS
8DPSK	LCH 🚺	1.442	<limit< td=""><td>PASS</td></limit<>	PASS
8DPSK	МСН	1.047	<limit< td=""><td>PASS</td></limit<>	PASS
8DPSK	НСН	1.053	<limit< td=""><td>PASS</td></limit<>	PASS





























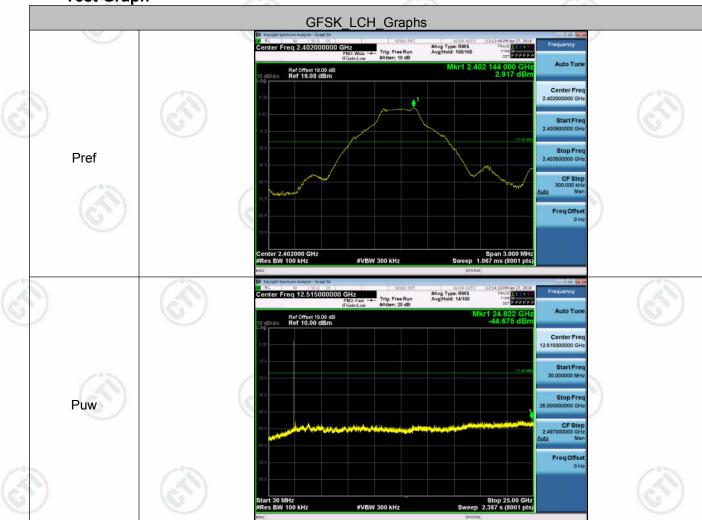


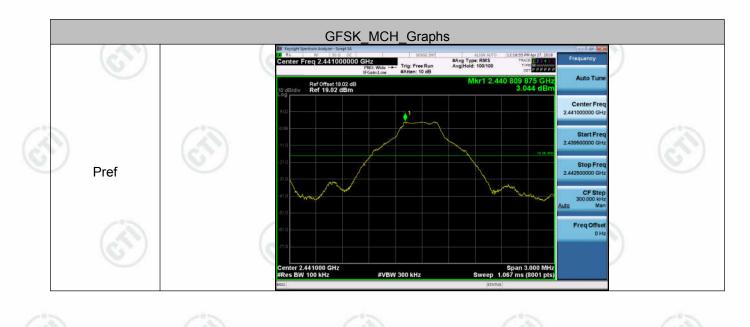




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Test Graph



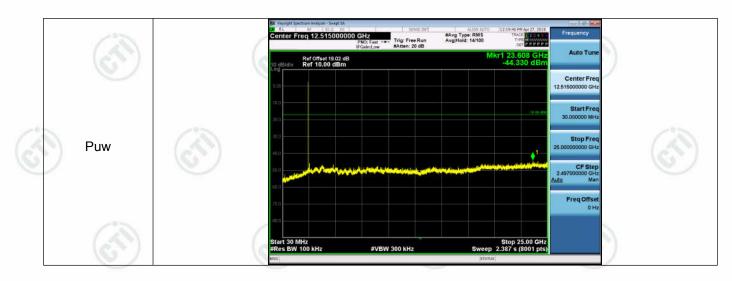






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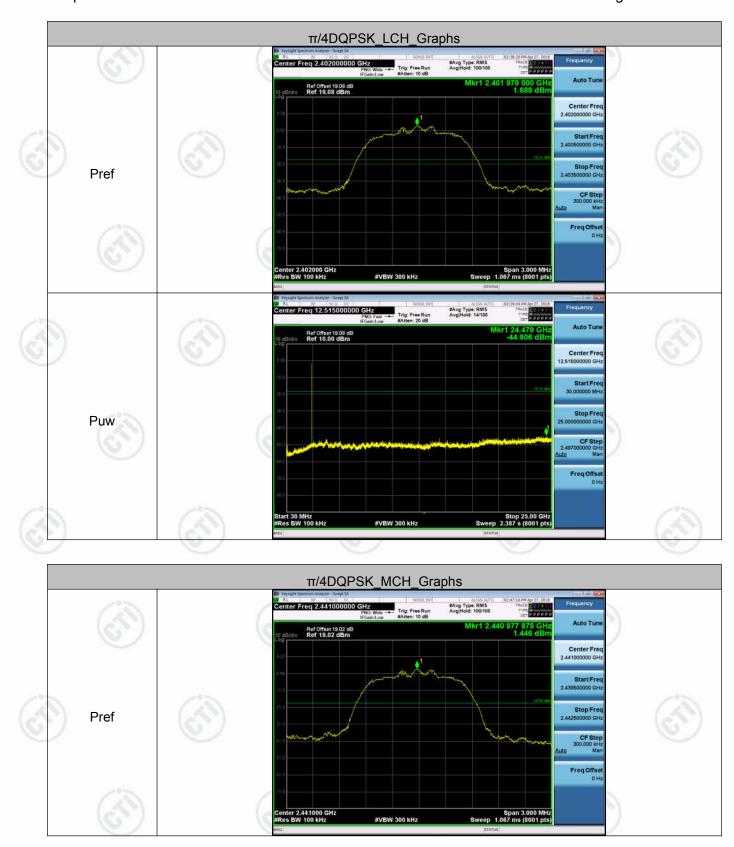








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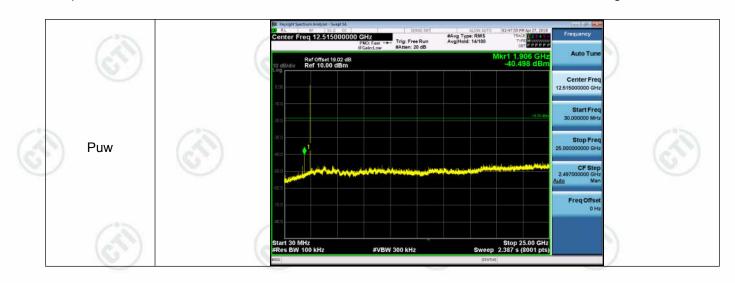








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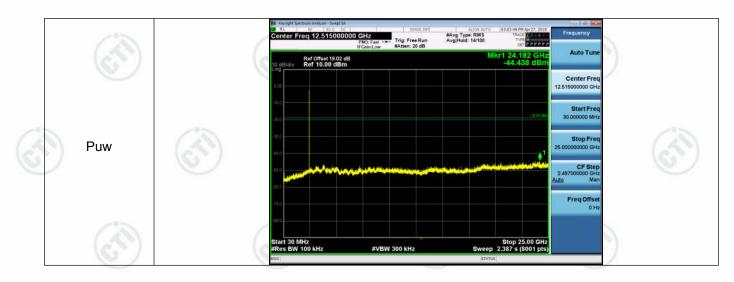


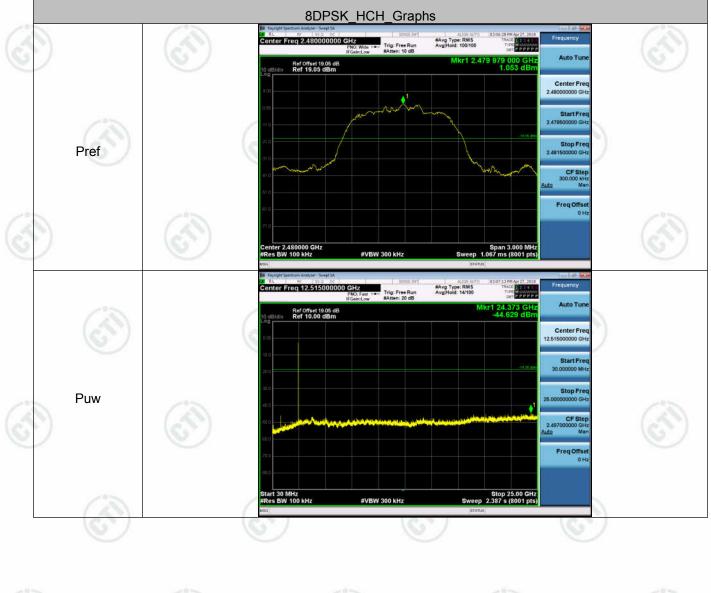




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### Appendix H): Pseudorandom Frequency Hopping Sequence

### Test Requirement: 47 CFR Part 15C Section 15.247 (a)(1) requirement:

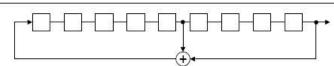
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Alternatively. Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channe carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

#### EUT Pseudorandom Frequency Hopping Sequence

The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: 2<sup>9</sup> -1 = 511 bits
- · Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

20 62 46 77	7 64	8 73	16 75 1
		}	

Each frequency used equally on the average by each transmitter.

The system receivers have input bandwidths that match the hopping channel bandwidths of their Corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

The device does not have the ability to be coordinated with other FHSS systems in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitters.







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### Report No. : EED32K00096701

## Appendix I): 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.



The antenna is attached to the inner shell of the EUT and no consideration of replacement. The best case gain of the antenna is -1.39dBi.







## Appendix J): AC Power Line Conducted Emission

Test Procedure:	Test frequency range :150KHz	-30MHz		
	1)The mains terminal disturbar		onducted in a shield	led room.
	2) The EUT was connected to Stabilization Network) which power cables of all other u which was bonded to the gu for the unit being measured multiple power cables to a se exceeded.	AC power source thro h provides a 50Ω/50μ nits of the EUT were round reference plane d. A multiple socket of	bugh a LISN 1 (Line $\mu$ H + 5 $\Omega$ linear importance connected to a section in the same way a butlet strip was use	e Impedan edance. T cond LISN s the LISN d to conne
	3)The tabletop EUT was place reference plane. And for flo horizontal ground reference	or-standing arrangem		
	<ul> <li>4) The test was performed with EUT shall be 0.4 m from the reference plane was bonded 1 was placed 0.8 m from the ground reference plane for plane. This distance was be All other units of the EUT at LISN 2.</li> </ul>	e vertical ground refer d to the horizontal gro he boundary of the u or LISNs mounted or etween the closest po	ence plane. The ve bund reference plan init under test and n top of the groun ints of the LISN 1 a	ertical ground ne. The LIS bonded to nd referent and the EL
	5) In order to find the maximum of the interface cables must conducted measurement.			
Limit:	0	S.	S	
		Limit (d	BμV)	
	Frequency range (MHz)	Quasi-peak	Average	
A (	0.15-0.5	66 to 56*	56 to 46*	12
	0.5-5	56	46	6
	5-30	60	50	
	* The limit decreases linearly MHz to 0.50 MHz. NOTE : The lower limit is applie	215	215	e range 0.

### **Measurement Data**

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

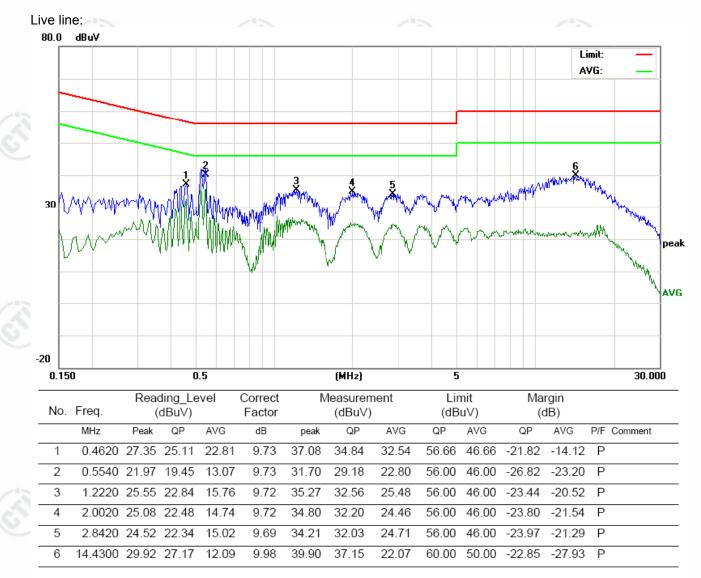
Quasi-Peak and Average measurement were performed at the frequencies with maximized peake mission were detected.









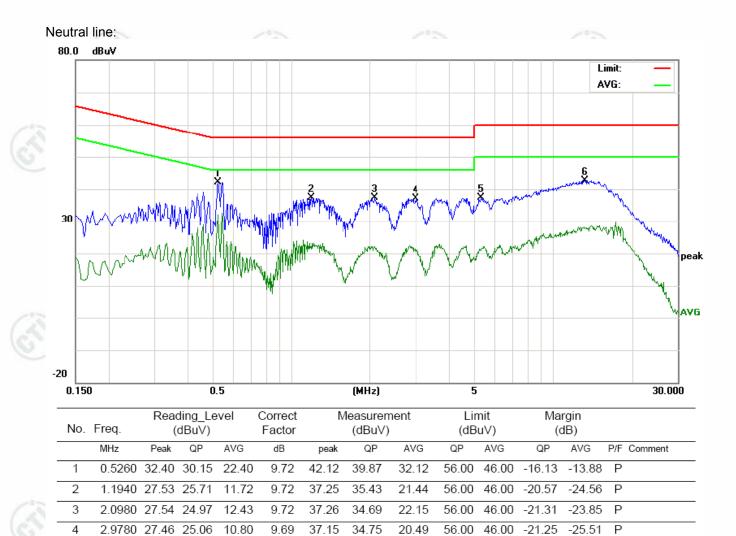








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Ν	otes	

5

6

5.3140 27.83 25.18

13.3180 32.74 30.46

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

34.80

40.40

21.38

27.72

60.00

60.00

50.00

50.00

-25.20

-19.60

-28.62

-22.28

Ρ

Ρ

37.45

42.68

2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

9.62

9.94

11.76

17.78







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

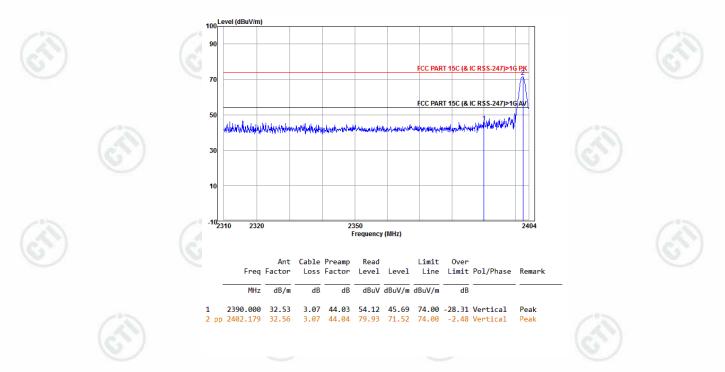
						_
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark	
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak	
	Above 1GHz	Peak	1MHz	3MHz	Peak	P
	Above IGHZ	Peak	1MHz	10Hz	Average	
Test Procedure:	Below 1GHz test proced	lure as below:				
	<ul> <li>a. The EUT was placed at a 3 meter semi-and determine the position</li> <li>b. The EUT was set 3 m was mounted on the field of the antenna height is determine the maxim polarizations of the and</li> <li>d. For each suspected of the antenna was tune table was turned from</li> <li>e. The test-receiver system Bandwidth with Maxim</li> <li>f. Place a marker at the frequency to show co bands. Save the spector for lowest and highes</li> </ul>	on the top of a rota echoic camber. The n of the highest rad leters away from the top of a variable-he s varied from one n um value of the fie ntenna are set to n emission, the EUT of to heights from 0 degrees to 360 tem was set to Pea num Hold Mode. end of the restrict mpliance. Also me etrum analyzer plot t channel	e table wa diation. he interferen- eight anter neter to fo ld strength nake the n was arran 1 meter to degrees t ak Detect 1 ed band c asure any	ence-receinna tower. bur meters n. Both hor neasureme ged to its 4 meters 5 find the Function a closest to the cemission	360 degrees to iving antenna, above the gro rizontal and ve ent. worst case an and the rotata maximum rea ind Specified he transmit s in the restric	o , wh pun- ertic ad th ble din-
	g. Different between abo to fully Anechoic Cha	ove is the test site, mber and change	form table			aml
	h. b. Test the EUT in the i. The radiation measur Transmitting mode, a j. Repeat above proced	ements are perform nd found the X axi	the Highe med in X, s positioni	table is 1.5 st channel Y, Z axis p ing which i	oositioning for t is worse cas	
Limit:	h. b. Test the EUT in the i. The radiation measur Transmitting mode, a j. Repeat above proceed	e lowest channel , ements are perform nd found the X axi lures until all frequ	the Highe med in X, s positioni encies me	table is 1.5 st channel Y, Z axis p ing which i easured wa	oositioning for t is worse cas	
Limit:	<ul> <li>h. b. Test the EUT in the</li> <li>i. The radiation measur</li> <li>Transmitting mode, a</li> </ul>	e lowest channel , ements are perform nd found the X axi	the Highe med in X, s positioni encies me	table is 1.5 st channel Y, Z axis p ing which i easured wa Rei	oositioning for t is worse cas as complete. mark	
Limit:	h. b. Test the EUT in the i. The radiation measur Transmitting mode, a j. Repeat above proceed Frequency	e lowest channel , ements are perform nd found the X axi lures until all frequ Limit (dBµV/r 40.0	the Highe med in X, s positioni encies me	table is 1.5 st channel Y, Z axis p ing which i easured wa Rei Quasi-po	oositioning for t is worse cas as complete. mark eak Value	
Limit:	h. b. Test the EUT in the i. The radiation measur Transmitting mode, a j. Repeat above proced Frequency 30MHz-88MHz 88MHz-216MHz	e lowest channel , ements are perform nd found the X axi lures until all frequ Limit (dBµV/r	the Highe med in X, s positioni encies me	table is 1.5 st channel Y, Z axis p ing which i easured wa Rei Quasi-pe Quasi-pe	oositioning for t is worse cas as complete. mark	
Limit:	h. b. Test the EUT in the i. The radiation measur Transmitting mode, a j. Repeat above proced Frequency 30MHz-88MHz 88MHz-216MHz 216MHz-960MHz	e lowest channel , ements are perform nd found the X axi lures until all frequ Limit (dBµV/r 40.0 43.5 46.0	the Highe med in X, s positioni encies me	table is 1.5 st channel Y, Z axis p ing which i easured wa Rei Quasi-po Quasi-po Quasi-po	oositioning for t is worse cas as complete. mark eak Value eak Value eak Value	
Limit:	h. b. Test the EUT in the i. The radiation measur Transmitting mode, a j. Repeat above proced Frequency 30MHz-88MHz 88MHz-216MHz	e lowest channel , ements are perform nd found the X axi lures until all frequ Limit (dBµV/r 40.0 43.5	the Highe med in X, s positioni encies me	table is 1.5 st channel Y, Z axis p ing which i easured wa Rei Quasi-po Quasi-po Quasi-po Quasi-po	oositioning for t is worse cas as complete. mark eak Value eak Value	

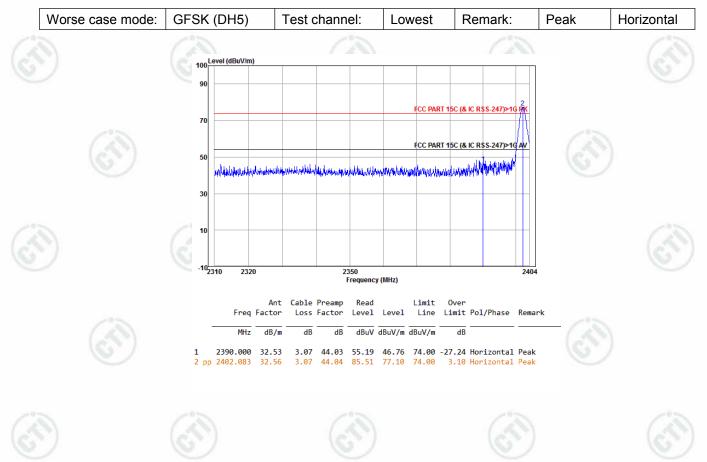




### Test plot as follows:

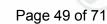
Worse case mode: GFSK (DH5) Test channel: Lowest Remark: Peak Vertical	GFSK:	(2)	(2)	(3)		(2)	
	Worse case mode:	GFSK (DH5)	Test channel:	Lowest	Remark:	Peak	Vertical

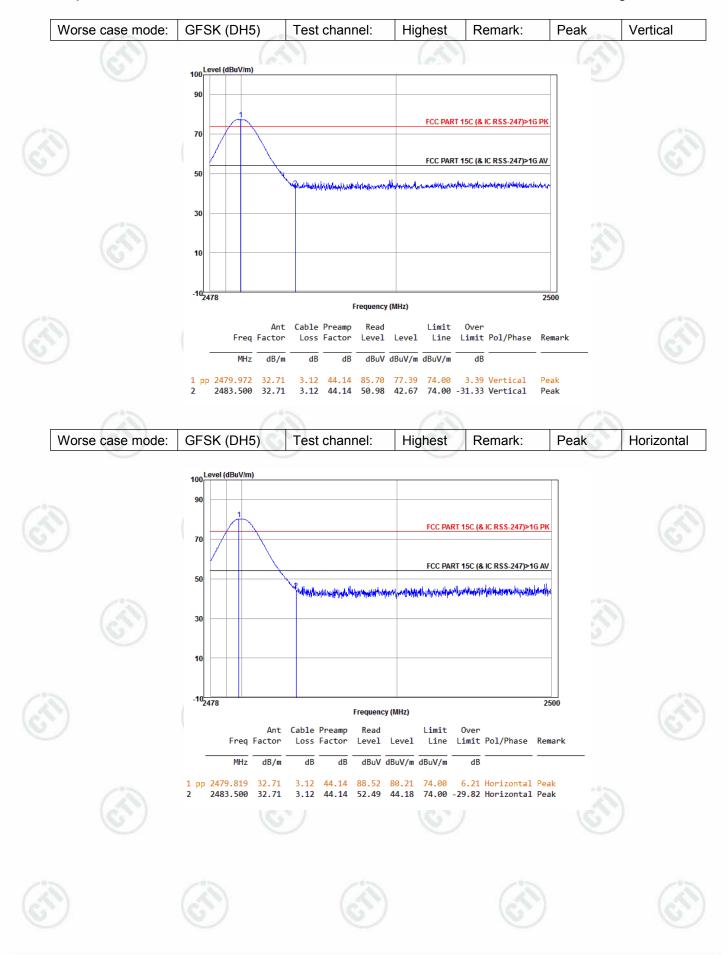




















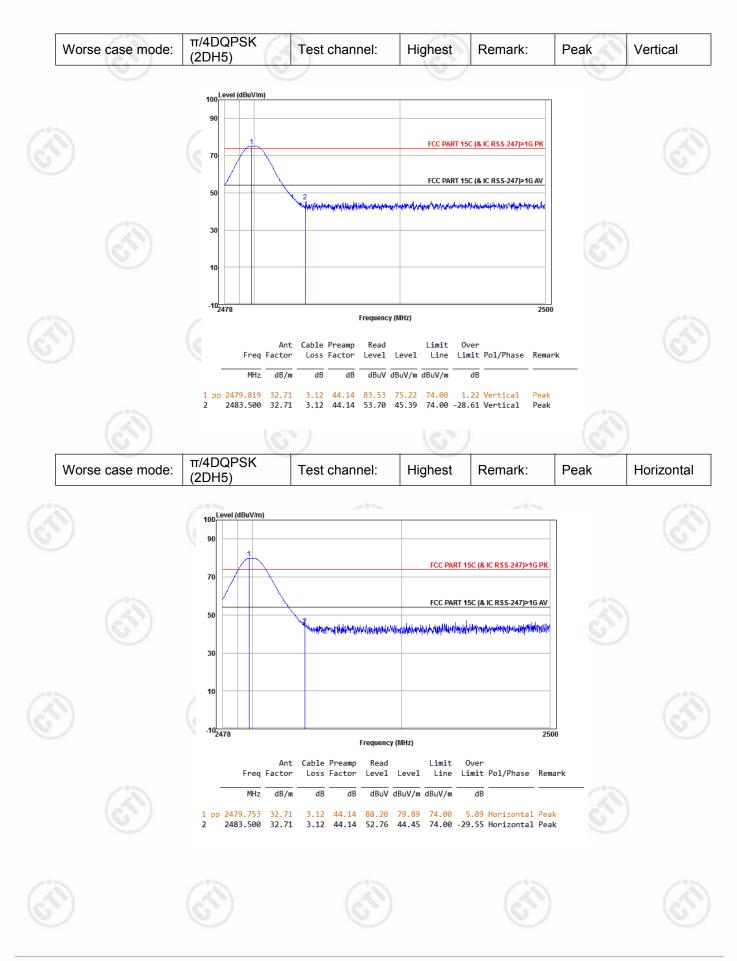
Worse case mode:	π/4DQPSK (2DH5)	6	Test cha	nnel:	Lowest	Remark:	Peak	Vertical
	100 Level (dBuV/m)							
	100							
	50							
	70				HCC PAR	15C (& IC R\$S-247)>1G	<u>₽</u>	
					FCC PAR	RT 15C (& IC R\$S-247)>1G	AV	
	50 141714/4-4-144/4	wheeler	horisishihatishaa	hypermation	sanduran daharan daharan	monorehalter	20	
	30						- 8	
	10							
	-102310 2320	)		2350			2404	
		Ant	Cabla Dacama	Frequency		Over		
	Freq I	Factor	Cable Preamp Loss Factor	Read Level	Limit Level Line	Limit Pol/Phase F	lemark	
	MHz	dB/m	dB dB		dBuV/m dBuV/m	dB		
	1 2390.000 2 pp 2402.083	32.53 32.56					<sup>2</sup> eak <sup>2</sup> eak	
U S		e.	/		V		V	
Worse case mode:	π/4DQPSK (2DH5)	-	Test chan	nel:	Lowest	Remark:	Peak	Horizont
	Level (dBuV/m	)	/	1		13	0	0
	100 Level (dBuV/m 90	)	/	6		/12		Ċ
		)		6	FCC PART	15C (& IC R\$S-247)>1G FBK		Ċ
		)			FCC PART			
	90 70 50				FCC PART	15C (& IC R\$S-247)>1G FBK		
	90 70 50		uter to arring the flat have			15C (& IC R\$S-247)>1G FBK		
	90 70 50		utertestringetiftetetene		FCC PART	15C (& IC R\$S-247)>1G FBK		
	90 70 50		utertenringHillenhan		FCC PART	15C (& IC R\$S-247)>1G FBK		
	90 70 50 70 30 10	nslotionput			FCC PART	15C (& IC R\$S-247)>1G PK 15C (& IC R\$S-247)>1G AV	(Th	
	90 70 50 70 30	nslotionput		2350 Frequency (	FCC PART	15C (& IC R\$S-247)>1G PK 15C (& IC R\$S-247)>1G AV		
	90 70 50 70 30 10 -10 <sub>2310</sub> 232	Phylothion such 0		2350 Frequency ( Read	FCC PART	15C (& IC R\$S-247)>1G PK 15C (& IC R\$S-247)>1G AV	04	
	90 70 50 70 30 10 -10 <sub>2310</sub> 232	Ayddinnydd 0 Factor	Cable Preamp	2350 Frequency ( Read Level	FCC PART	15C (& IC RSS-247)>1G PK 15C (& IC RSS-247)>1G AV 15C (& IC RSS-247)>1G	04	
	90 70 50 70 30 10 -10 <sub>2310</sub> 232 Freq	Ant Factor 32.53	Cable Preamp Loss Factor	Read Level dBuV d	FCC PART	15C (& IC RSS-247)>1G FHK 15C (& IC RSS-247)>1G AV 15C (& IC RSS-247)>1G AV 15C (& IC RSS-247)>1G AV 15C (& IC RSS-247)>1G AV 15C (& IC RSS-247)>1G FHK 15C (& IC RSS-247)>1G	nark	
	90 70 50 10 10 10 2310 232 Freq MHz 1 2390.000	Ant Factor dB/m 32.53	Cable Preamp Loss Factor dB dB 3.07 44.03	Read Level dBuV d	FCC PART	15C (& IC R\$S-247)>1G PAK 15C (& IC R\$S-247)>1G AV 15C (& IC R\$S-247	nark	







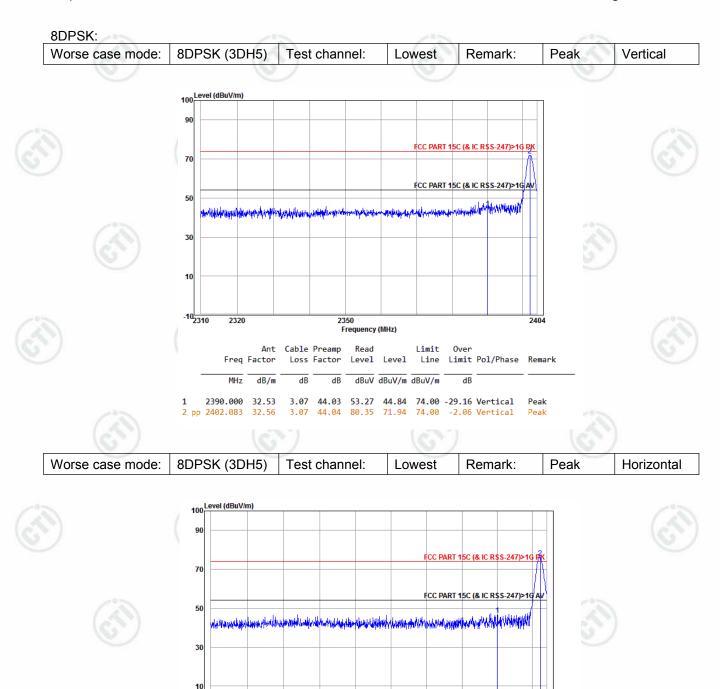
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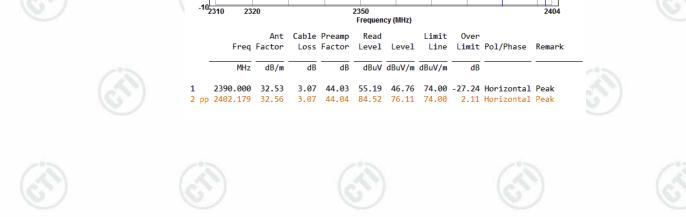










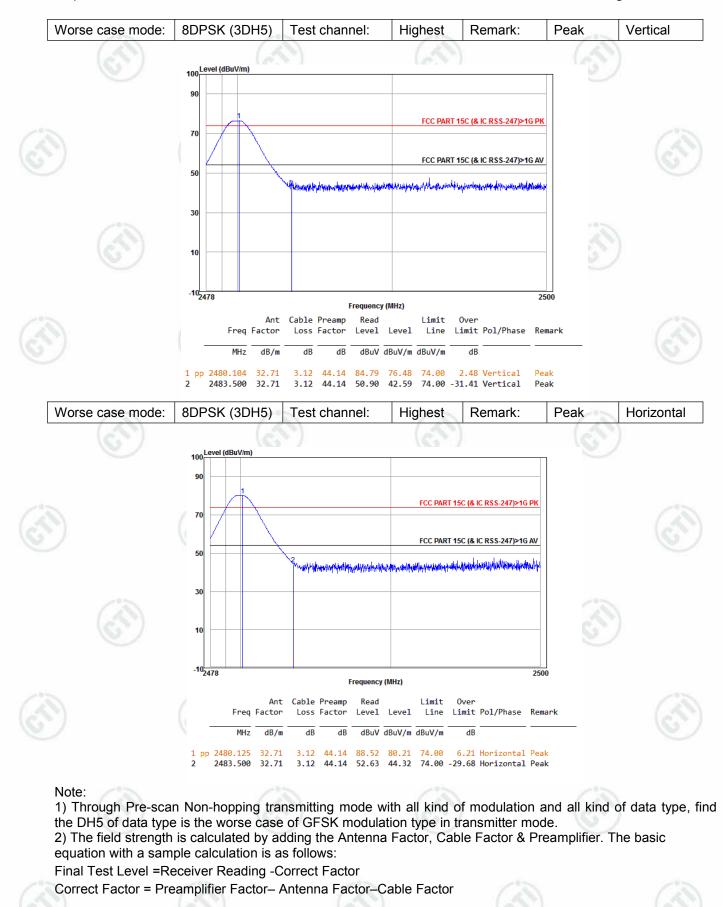








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## **Appendix L): Radiated Spurious Emissions**

Receiver Setup:	(25)	( in 1	S.)		(25)
	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	100 kHz	300kHz	Quasi-peak
(S1)		Peak	1MHz	3MHz	Peak
	Above 1GHz	Peak	1MHz	10Hz	Average
Test Breedure		•		•	·

### Test Procedure:

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

- a. 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.
- b. The EUT was set 3 meters away from the interference-receiving antenna, whichwas 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.

### Above 1GHz test procedure as below:

- g. 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).
- h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel
- i. 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.
- j. Repeat above procedures until all frequencies measured was complete.

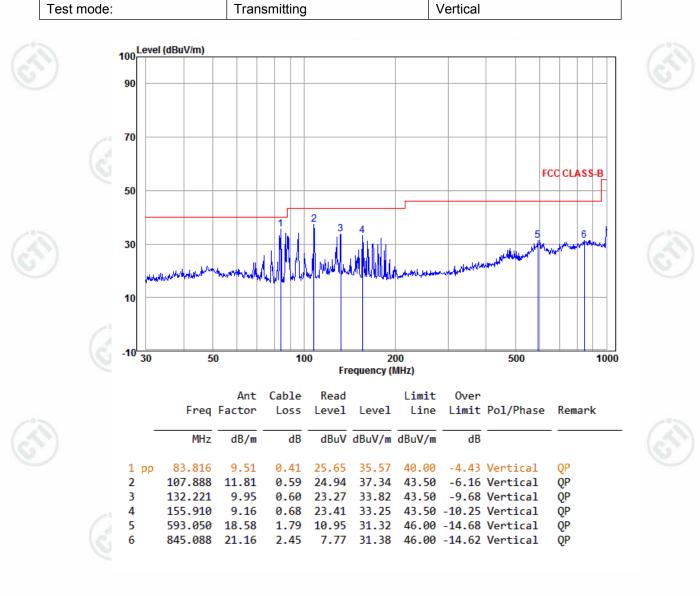
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBµV/m)	Remark	Measurement distance (m)			
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300			
N	0.490MHz-1.705MHz	24000/F(kHz)		00	30			
0	1.705MHz-30MHz	30	- (	67)-	30			
×	30MHz-88MHz	100	40.0	Quasi-peak	3			
	88MHz-216MHz	3						
~	216MHz-960MHz	200	46.0	Quasi-peak	3			
(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: Radiated Emission below 1GHz 30MHz~1GHz (QP)





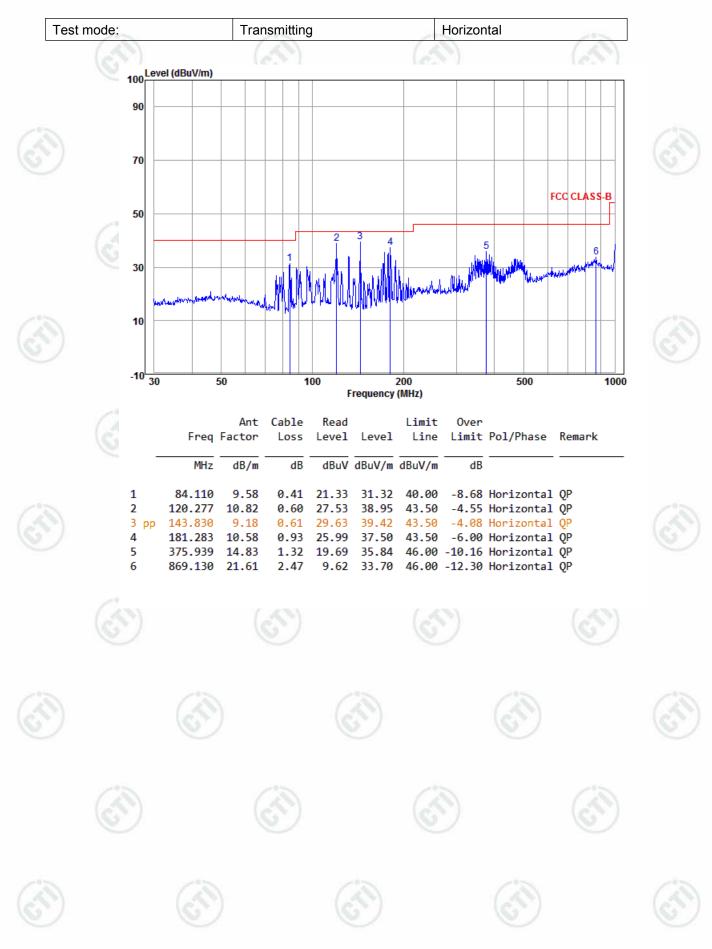




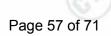


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Report No. : EED32K00096701







### Transmitter Emission above 1GHz

GFSK:									
Worse case	mode:	GFSK(1-D	H5)	Test cha	nnel:	Lowest	Remark: P	eak	
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis
1276.818	30.41	1.98	44.28	47.96	36.07	74.00	-37.93	Pass	C H
1557.252	30.98	2.36	43.93	47.51	36.92	74.00	-37.08	Pass	Н
4804.000	34.69	5.98	44.60	47.64	43.71	74.00	-30.29	Pass	Н
6412.427	36.12	7.33	44.54	48.74	47.65	74.00	-26.35	Pass	Н
7206.000	36.42	6.97	44.77	47.54	46.16	74.00	-27.84	Pass	Н
9608.000	37.88	6.98	45.58	47.60	46.88	74.00	-27.12	Pass	Н
1254.268	30.35	1.94	44.31	47.87	35.85	74.00	-38.15	Pass	V
1541.476	30.95	2.34	43.95	48.61	37.95	74.00	-36.05	Pass	V
4804.000	34.69	5.98	44.60	48.15	44.22	74.00	-29.78	Pass	V
5865.832	35.80	7.31	44.51	49.03	47.63	74.00	-26.37	Pass	V
7206.000	36.42	6.97	44.77	51.08	49.70	74.00	-24.30	Pass	V
9608.000	37.88	6.98	45.58	45.81	45.09	74.00	-28.91	Pass	V
	Worse case Frequency (MHz) 1276.818 1557.252 4804.000 6412.427 7206.000 9608.000 1254.268 1541.476 4804.000 5865.832 7206.000	Worse case mode:           Frequency (MHz)         Antenna Factor (dB/m)           1276.818         30.41           1557.252         30.98           4804.000         34.69           6412.427         36.12           7206.000         36.42           9608.000         37.88           1254.268         30.35           1541.476         30.95           4804.000         34.69           5865.832         35.80           7206.000         36.42	Worse case mode:         GFSK(1-D)           Frequency (MHz)         Antenna Factor (dB/m)         Cable Loss (dB)           1276.818         30.41         1.98           1557.252         30.98         2.36           4804.000         34.69         5.98           6412.427         36.12         7.33           7206.000         36.42         6.97           9608.000         37.88         6.98           1254.268         30.35         1.94           1541.476         30.95         2.34           4804.000         34.69         5.98           5865.832         35.80         7.31           7206.000         36.42         6.97	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Worse case mode:         GFSK(1-DH5)         Test channel:         Lowest         Remark: Peak           Frequency (MHz)         Antenna Factor (dB/m)         Cable Loss (dB)         Preamp Gain (dB)         Read Level (dBµV)         Level (dBµV/m)         Limit Line (dBµV/m)         Over Limit (dB)         Result           1276.818         30.41         1.98         44.28         47.96         36.07         74.00         -37.93         Pass           1557.252         30.98         2.36         43.93         47.51         36.92         74.00         -37.08         Pass           4804.000         34.69         5.98         44.60         47.64         43.71         74.00         -30.29         Pass           6412.427         36.12         7.33         44.54         48.74         47.65         74.00         -27.84         Pass           7206.000         36.42         6.97         44.77         47.54         46.16         74.00         -27.12         Pass           1254.268         30.35         1.94         44.31         47.87         35.85         74.00         -36.05         Pass           1541.476         30.95         2.34         43.95         48.61         37.95         74.00         -26.37

Worse case	mode:	GFSK(1-D	H5)	Test char	nnel:	Middle	Remark: P	eak	
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis
1228.984	30.29	1.91	44.34	47.92	35.78	74.00	-38.22	Pass	A H
1514.252	30.90	2.31	43.98	48.51	37.74	74.00	-36.26	Pass	Ľн
4882.000	34.85	6.14	44.60	47.40	43.79	74.00	-30.21	Pass	Н
6478.053	36.15	7.32	44.55	48.62	47.54	74.00	-26.46	Pass	Н
7323.000	36.43	6.85	44.87	46.76	45.17	74.00	-28.83	Pass	Н
9764.000	38.05	7.12	45.55	46.61	46.23	74.00	-27.77	Pass	Н
1303.086	30.46	2.02	44.24	49.11	37.35	74.00	-36.65	Pass	V
1805.005	31.40	2.64	43.68	47.96	38.32	74.00	-35.68	Pass	V
4882.000	34.85	6.14	44.60	48.66	45.05	74.00	-28.95	Pass	V
6428.771	36.12	7.33	44.54	48.83	47.74	74.00	-26.26	Pass	V
7323.000	36.43	6.85	44.87	47.68	46.09	74.00	-27.91	Pass	V
9764.000	38.05	7.12	45.55	45.85	45.47	74.00	-28.53	Pass	V







Worse case	mode:	GFSK(1-D	H5)	Test chan	nel:	Highest	Remark: P	Remark: Peak	
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis
1185.958	30.19	1.84	44.40	48.39	36.02	74.00	-37.98	Pass	Н
1545.405	30.96	2.35	43.95	48.10	37.46	74.00	-36.54	Pass	н
4960.000	35.02	6.29	44.60	48.26	44.97	74.00	-29.03	Pass	G H
5865.832	35.80	7.31	44.51	49.40	48.00	74.00	-26.00	Pass	Н
7440.000	36.45	6.73	44.97	47.06	45.27	74.00	-28.73	Pass	Н
9920.000	38.22	7.26	45.52	45.92	45.88	74.00	-28.12	Pass	Н
1052.229	29.85	1.61	44.61	48.76	35.61	74.00	-38.39	Pass	V
1428.142	30.73	2.19	44.08	47.72	36.56	74.00	-37.44	Pass	V
4960.000	35.02	6.29	44.60	48.03	44.74	74.00	-29.26	Pass	V
5850.919	35.79	7.29	44.51	49.84	48.41	74.00	-25.59	Pass	V
7440.000	36.45	6.73	44.97	46.12	44.33	74.00	-29.67	Pass	V
9920.000	38.22	7.26	45.52	45.79	45.75	74.00	-28.25	Pass	V

### π/4DQPSK:

Worse case	Worse case mode:		π/4DQPSK(2-DH5)		nnel:	Lowest	Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis
1170.959	30.16	1.81	44.43	48.85	36.39	74.00	-37.61	Pass	Н
1621.985	31.10	2.44	43.86	47.56	37.24	74.00	-36.76	Pass	J.
4804.000	34.69	5.98	44.60	47.95	44.02	74.00	-29.98	Pass	H
6017.064	35.91	7.44	44.50	48.54	47.39	74.00	-26.61	Pass	Ľн
7206.000	36.42	6.97	44.77	47.21	45.83	74.00	-28.17	Pass	Н
9608.000	37.88	6.98	45.58	46.66	45.94	74.00	-28.06	Pass	Н
1167.982	30.15	1.81	44.43	48.25	35.78	74.00	-38.22	Pass	V
1525.860	30.92	2.32	43.97	48.38	37.65	74.00	-36.35	Pass	V
4804.000	34.69	5.98	44.60	47.98	44.05	74.00	-29.95	Pass	V
5865.832	35.80	7.31	44.51	50.32	48.92	74.00	-25.08	Pass	V
7206.000	36.42	6.97	44.77	47.89	46.51	74.00	-27.49	Pass	V
9608.000	37.88	6.98	45.58	46.16	45.44	74.00	-28.56	Pass	V



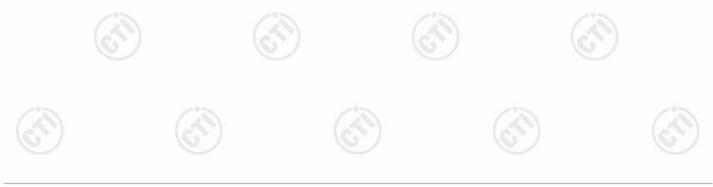






Worse case	Worse case mode:		((2-DH5)	Test char	nnel:	Middle	Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis
1219.635	30.27	1.89	44.36	48.41	36.21	74.00	-37.79	Pass	Н
1521.981	30.91	2.32	43.97	47.93	37.19	74.00	-36.81	Pass	<b>1</b>
4882.000	34.85	6.14	44.60	48.71	45.10	74.00	-28.90	Pass	(H)
5880.782	35.81	7.32	44.51	48.50	47.12	74.00	-26.88	Pass	Ĥ
7323.000	36.43	6.85	44.87	47.81	46.22	74.00	-27.78	Pass	Н
9764.000	38.05	7.12	45.55	47.31	46.93	74.00	-27.07	Pass	Н
1138.626	30.07	1.76	44.48	47.47	34.82	74.00	-39.18	Pass	V
1402.920	30.68	2.16	44.11	47.85	36.58	74.00	-37.42	Pass	V
4882.000	34.85	6.14	44.60	48.05	44.44	74.00	-29.56	Pass	V
6017.064	35.91	7.44	44.50	48.23	47.08	74.00	-26.92	Pass	V
7323.000	36.43	6.85	44.87	47.80	46.21	74.00	-27.79	Pass	V
9764.000	38.05	7.12	45.55	47.12	46.74	74.00	-27.26	Pass	V

Worse case mode:		π/4DQPSK(2-DH5)		Test channel:		Highest	Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis
1374.639	30.62	2.12	44.15	48.51	37.10	74.00	-36.90	Pass	Н
1541.476	30.95	2.34	43.95	48.84	38.18	74.00	-35.82	Pass	Н
4960.000	35.02	6.29	44.60	48.63	45.34	74.00	-28.66	Pass	H
5895.771	35.82	7.34	44.51	48.40	47.05	74.00	-26.95	Pass	Śн
7440.000	36.45	6.73	44.97	46.04	44.25	74.00	-29.75	Pass	Н
9920.000	38.22	7.26	45.52	46.29	46.25	74.00	-27.75	Pass	Н
1195.049	30.21	1.85	44.39	48.98	36.65	74.00	-37.35	Pass	V
1533.648	30.93	2.33	43.96	48.11	37.41	74.00	-36.59	Pass	V
4960.000	35.02	6.29	44.60	48.03	44.74	74.00	-29.26	Pass	V
6032.401	35.92	7.43	44.50	49.44	48.29	74.00	-25.71	Pass	V
7440.000	36.45	6.73	44.97	47.28	45.49	74.00	-28.51	Pass	V
9920.000	38.22	7.26	45.52	46.07	46.03	74.00	-27.97	Pass	V









8DPSK:	-		1	200			125		
Worse case mode:		8DPSK(3-DH5)		Test channel:		Lowest	Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis
1132.844	30.06	1.75	44.48	48.48	35.81	74.00	-38.19	Pass	H
1577.198	31.01	2.38	43.91	48.35	37.83	74.00	-36.17	Pass	CH)
4804.000	34.69	5.98	44.60	48.15	44.22	74.00	-29.78	Pass	H
6047.776	35.93	7.43	44.51	48.36	47.21	74.00	-26.79	Pass	Н
7206.000	36.42	6.97	44.77	48.84	47.46	74.00	-26.54	Pass	Н
9608.000	37.88	6.98	45.58	46.17	45.45	74.00	-28.55	Pass	Н
1254.268	30.35	1.94	44.31	47.86	35.84	74.00	-38.16	Pass	V
1577.198	31.01	2.38	43.91	48.30	37.78	74.00	-36.22	Pass	V
4804.000	34.69	5.98	44.60	47.50	43.57	74.00	-30.43	Pass	V
5865.832	35.80	7.31	44.51	48.91	47.51	74.00	-26.49	Pass	V
7206.000	36.42	6.97	44.77	47.63	46.25	74.00	-27.75	Pass	V
9608.000	37.88	6.98	45.58	46.25	45.53	74.00	-28.47	Pass	V

	Worse case	mode:	8DPSK(3-DH5)		Test channel:		Middle	Remark: Peak		
	Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis
	1273.572	30.40	1.97	44.28	47.73	35.82	74.00	-38.18	Pass	Н
4	1573.189	31.01	2.38	43.92	47.73	37.20	74.00	-36.80	Pass	H
2	4882.000	34.85	6.14	44.60	48.57	44.96	74.00	-29.04	Pass	Ľн
	6219.512	36.02	7.38	44.52	48.65	47.53	74.00	-26.47	Pass	Н
	7323.000	36.43	6.85	44.87	50.97	49.38	74.00	-24.62	Pass	Н
	9764.000	38.05	7.12	45.55	46.95	46.57	74.00	-27.43	Pass	Н
	1276.818	30.41	1.98	44.28	48.90	37.01	74.00	-36.99	Pass	V
	1541.476	30.95	2.34	43.95	48.19	37.53	74.00	-36.47	Pass	V
	4960.000	35.02	6.29	44.60	48.14	44.85	74.00	-29.15	Pass	V
1	5880.782	35.81	7.32	44.51	49.34	47.96	74.00	-26.04	Pass	V
ç	7440.000	36.45	6.73	44.97	46.51	44.72	74.00	-29.28	Pass	V
2	9920.000	38.22	7.26	45.52	46.52	46.48	74.00	-27.52	Pass	V









Worse case	Worse case mode:		8DPSK(3-DH5)		nel:	Highest	Remark: Peak		
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Gain (dB)	Read Level (dBµV)	Level (dBµV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Result	Antenna Polaxis
1270.334	30.39	1.97	44.29	48.09	36.16	74.00	-37.84	Pass	Н
1553.293	30.97	2.35	43.94	47.67	37.05	74.00	-36.95	Pass	2H
4960.000	35.02	6.29	44.60	47.74	44.45	74.00	-29.55	Pass	(H)
5850.919	35.79	7.29	44.51	48.92	47.49	74.00	-26.51	Pass	Ĥ
7440.000	36.45	6.73	44.97	46.41	44.62	74.00	-29.38	Pass	Н
9920.000	38.22	7.26	45.52	45.98	45.94	74.00	-28.06	Pass	Н
1276.818	30.41	1.98	44.28	48.90	37.01	74.00	-36.99	Pass	V
1541.476	30.95	2.34	43.95	48.19	37.53	74.00	-36.47	Pass	V
4960.000	35.02	6.29	44.60	48.14	44.85	74.00	-29.15	Pass	V
5880.782	35.81	7.32	44.51	49.34	47.96	74.00	-26.04	Pass	V
7440.000	36.45	6.73	44.97	46.51	44.72	74.00	-29.28	Pass	V
9920.000	38.22	7.26	45.52	46.52	46.48	74.00	-27.52	Pass	V

### Note:

1) Through Pre-scan Non-hopping transmitting mode with all kind of modulation and all kind of data type, find the DH5 of data type is the worse case of GFSK modulation type in transmitter mode.

2) 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

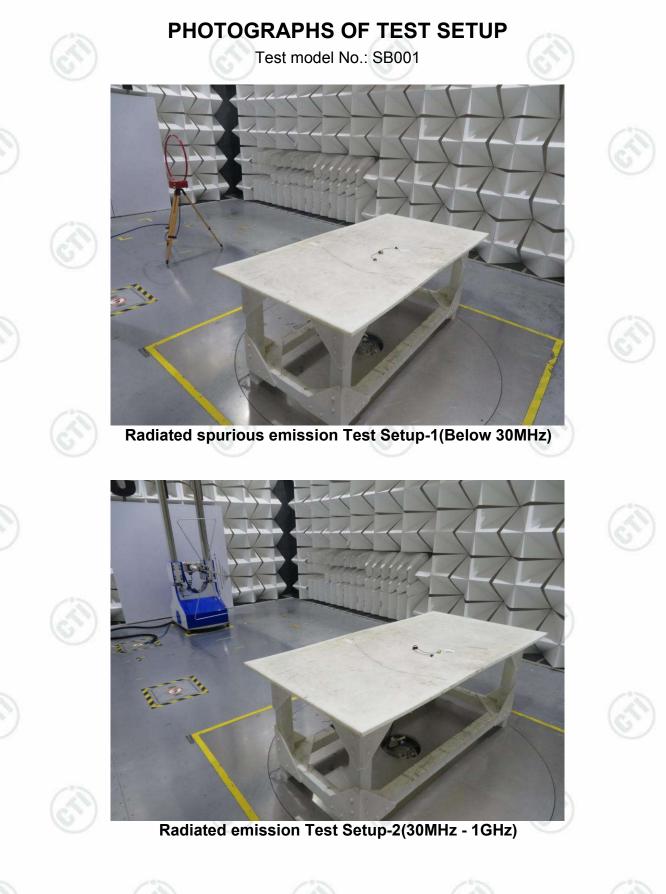
3) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below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







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Radiated spurious emission Test Setup-3(Above 1GHz)



**Conducted Emissions Test Setup** 











## **PHOTOGRAPHS OF EUT Constructional Details**

Test model No.: SB001



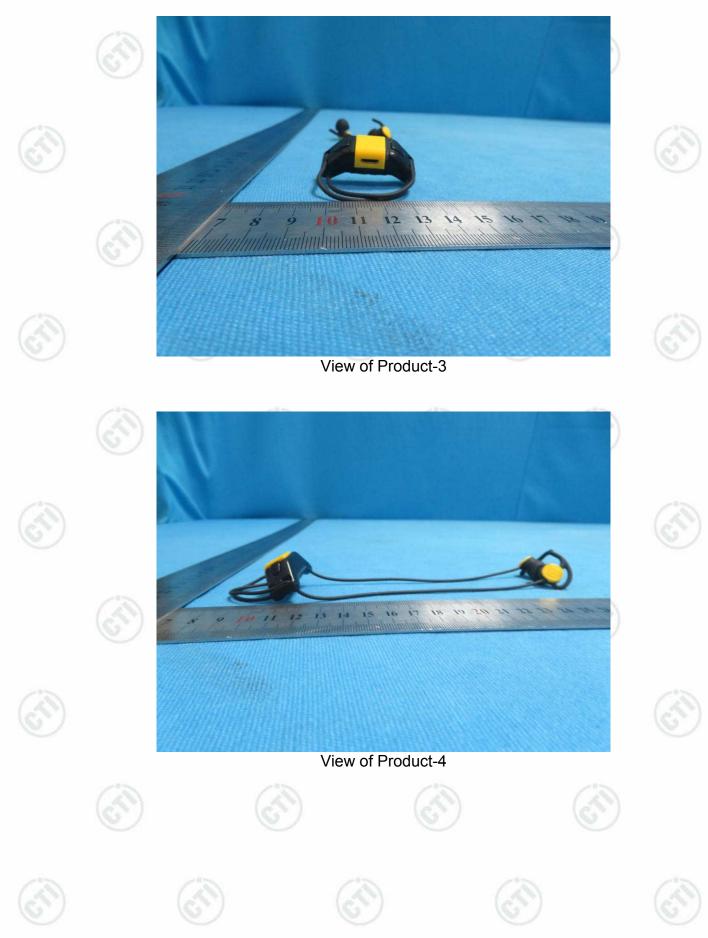










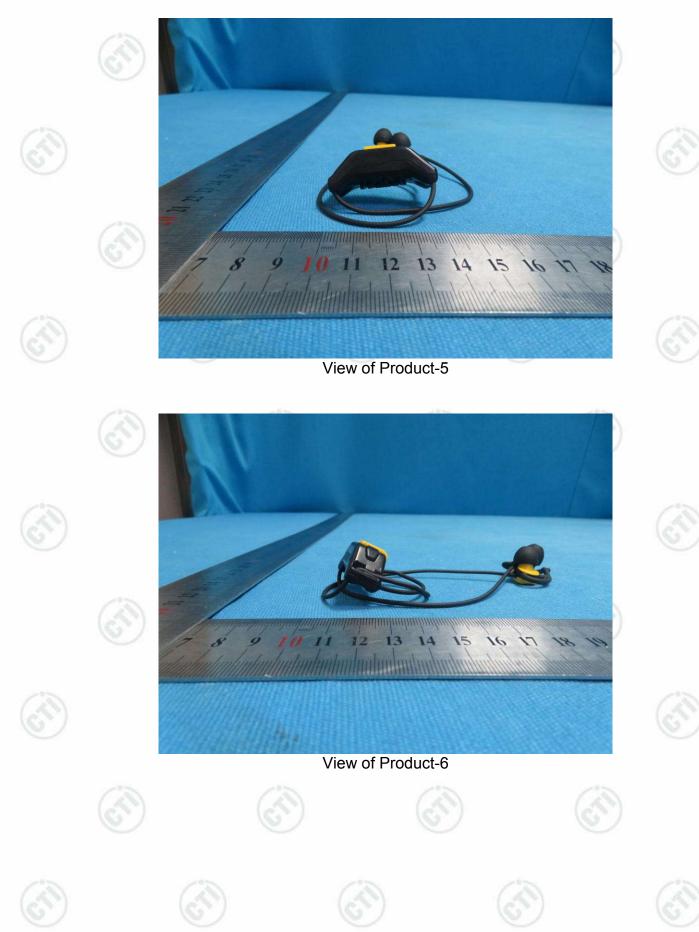






















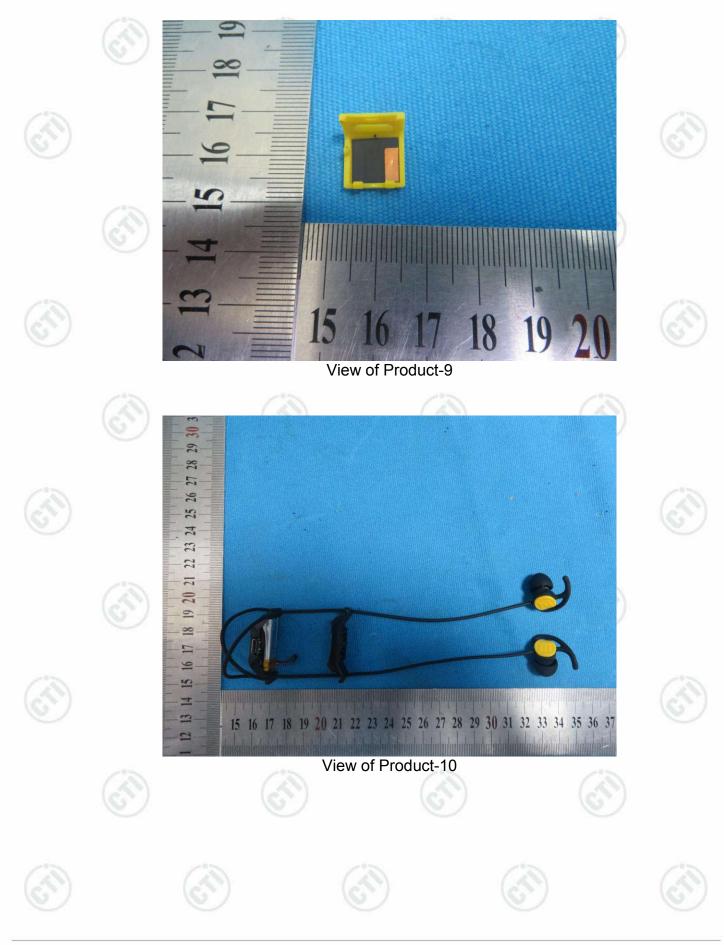










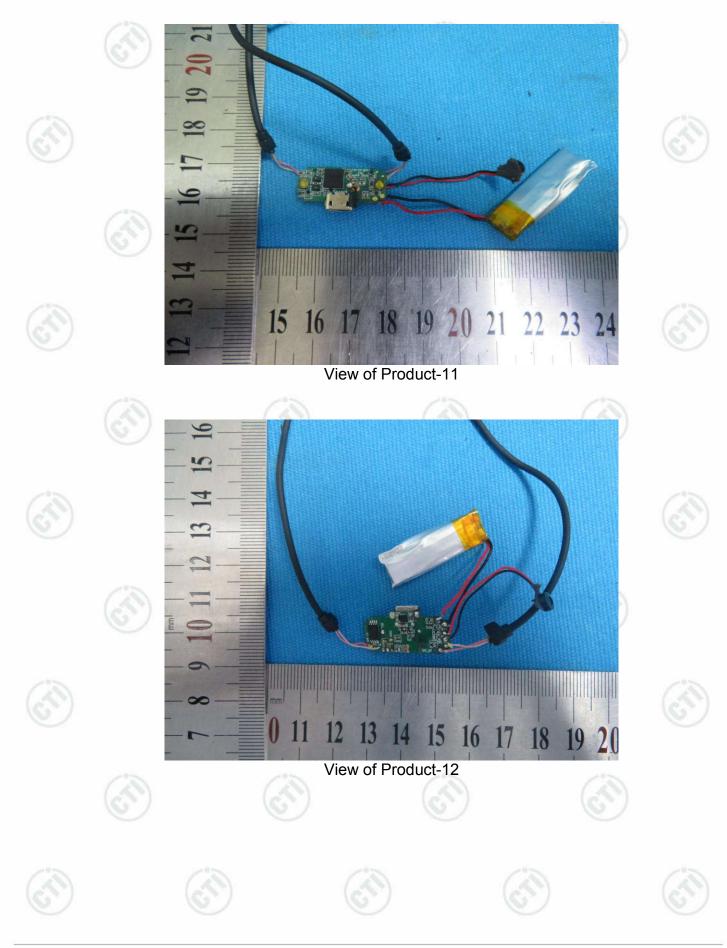








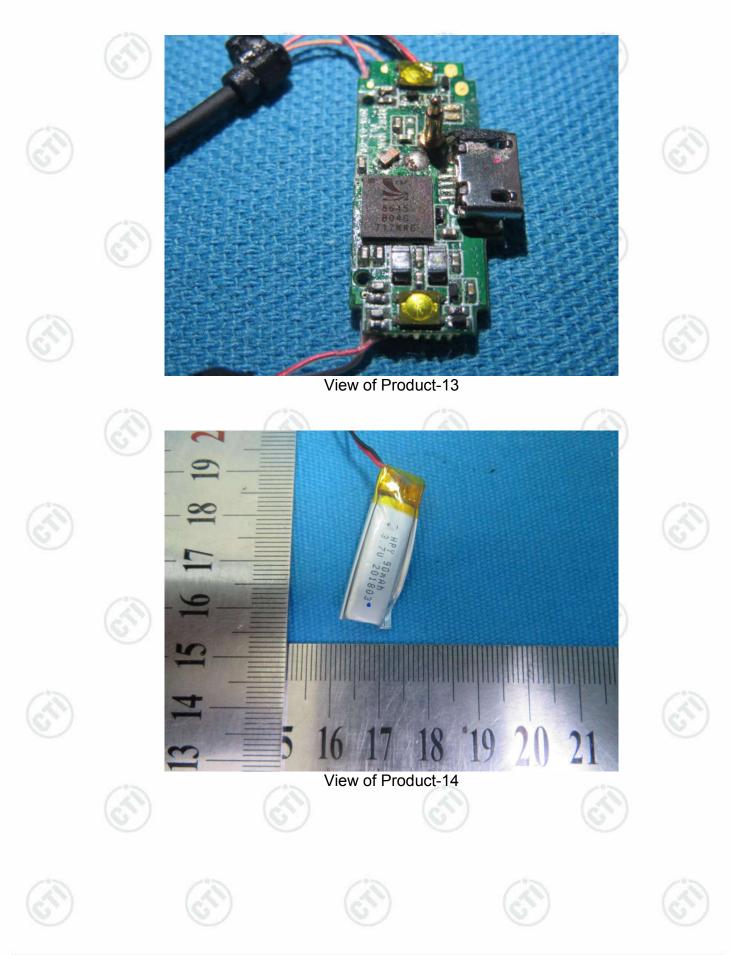






















### \*\*\* End of Report \*\*\*

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