



FCC Report (Bluetooth)

Applicant: FORM ELECTRONICS CO.,Ltd

Address of Applicant: 4F Bldg E, Junfeng Science&Technology Park, Lezhujiao, Xixiang, Bao'an Dist, Shenzhen, China

Manufacturer/Factory: FORM ELECTRONICS CO.,Ltd

Address of Manufacturer/Factory: 4F Bldg E, Junfeng Science&Technology Park, Lezhujiao, Xixiang, Bao'an Dist, Shenzhen, China

Equipment Under Test (EUT)

Product Name: Pairing Bluetooth Socket Speaker

Model No.: SSX18P132, FM0187

FCC ID: 2AAL7-SSX18P132

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: September 03, 2018

Date of Test: September 03-13, 2018

Date of report issued: September 13, 2018

Test Result : PASS *

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

Authorized Signature:

Robinson Lo
Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

2 Version

Version No.	Date	Description
00	September 13, 2018	Original

Prepared By:

Bill. Yuan

Date:

September 13, 2018

Project Engineer

Check By:

Andy Wu

Date:

September 13, 2018

Reviewer

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna Requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(1)	Pass
20dB Occupied Bandwidth	15.247 (a)(1)	Pass
Carrier Frequencies Separation	15.247 (a)(1)	Pass
Hopping Channel Number	15.247 (a)(1) (iii)	Pass
Dwell Time	15.247 (a)(1) (iii)	Pass
Pseudorandom Frequency Hopping Sequence	15.247(a)(1)	Pass
Radiated Emission	15.205/15.209	Pass
Band Edge	15.247(d)	Pass

Remarks:

1. Pass: The EUT complies with the essential requirements in the standard.
2. Test according to ANSI C63.10:2013

Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.45dB	(1)

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

5 General Information

5.1 General Description of EUT

Product Name:	Pairing Bluetooth Socket Speaker
Model No.:	SSX18P132, FM0187
Test Model No:	SSX18P132
<i>Remark: models no.SSX18P132, FM0187 are electrically identical, The only differences are color and model name for commercial purpose..</i>	
Test sample(s) ID:	GTS201809000070-1
Serial No.:	N/A
Hardware Version:	N/A
Software Version:	N/A
Sample(s) Status	Engineer sample
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	79
Channel separation:	1MHz
Modulation type:	GFSK, π/4-DQPSK, 8-DPSK
Antenna Type:	PCB Antenna
Antenna gain:	0dBi(declare by applicant)
Power supply:	Battery: DC 3.7V, 850mAh, 3.145Wh

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	21	2422MHz	41	2442MHz	61	2462MHz
2	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz
3	2404MHz	23	2424MHz	43	2444MHz	63	2464MHz
4	2405MHz	24	2425MHz	44	2445MHz	64	2465MHz
5	2406MHz	25	2426MHz	45	2446MHz	65	2466MHz
6	2407MHz	26	2427MHz	46	2447MHz	66	2467MHz
7	2408MHz	27	2428MHz	47	2448MHz	67	2468MHz
8	2409MHz	28	2429MHz	48	2449MHz	68	2469MHz
9	2410MHz	29	2430MHz	49	2450MHz	69	2470MHz
10	2411MHz	30	2431MHz	50	2451MHz	70	2471MHz
11	2412MHz	31	2432MHz	51	2452MHz	71	2472MHz
12	2413MHz	32	2433MHz	52	2453MHz	72	2473MHz
13	2414MHz	33	2434MHz	53	2454MHz	73	2474MHz
14	2415MHz	34	2435MHz	54	2455MHz	74	2475MHz
15	2416MHz	35	2436MHz	55	2456MHz	75	2476MHz
16	2417MHz	36	2437MHz	56	2457MHz	76	2477MHz
17	2418MHz	37	2438MHz	57	2458MHz	77	2478MHz
18	2419MHz	38	2439MHz	58	2459MHz	78	2479MHz
19	2420MHz	39	2440MHz	59	2460MHz	79	2480MHz
20	2421MHz	40	2441MHz	60	2461MHz		

Note:

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

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2441MHz
The Highest channel	2480MHz

5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode.
<i>Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.</i>	

5.3 Description of Support Units

Manufacturer	Description	Model	FCC
AoHai Adapter	USB Charger	A9A-050100U-US1	SDOC

5.4 Test Facility

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

- **FCC —Registration No.: 381383**

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 381383, January 08, 2018.

- **Industry Canada (IC) —Registration No.: 9079A-2**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, August 15, 2016.

5.5 Test Location

All tests were performed at:
Global United Technology Services Co., Ltd. Address: No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Tel: 0755-27798480 Fax: 0755-27798960

6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July. 03 2015	July. 02 2020
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June. 27 2018	June. 26 2019
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 27 2018	June. 26 2019
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 27 2018	June. 26 2019
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 27 2018	June. 26 2019
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June. 27 2018	June. 26 2019
9	Coaxial Cable	GTS	N/A	GTS211	June. 27 2018	June. 26 2019
10	Coaxial cable	GTS	N/A	GTS210	June. 27 2018	June. 26 2019
11	Coaxial Cable	GTS	N/A	GTS212	June. 27 2018	June. 26 2019
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 27 2018	June. 26 2019
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 27 2018	June. 26 2019
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 27 2018	June. 26 2019
15	Band filter	Amindeon	82346	GTS219	June. 27 2018	June. 26 2019
16	Power Meter	Anritsu	ML2495A	GTS540	June. 27 2018	June. 26 2019
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 27 2018	June. 26 2019
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 27 2018	June. 26 2019
19	Splitter	Agilent	11636B	GTS237	June. 27 2018	June. 26 2019
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 27 2018	June. 26 2019

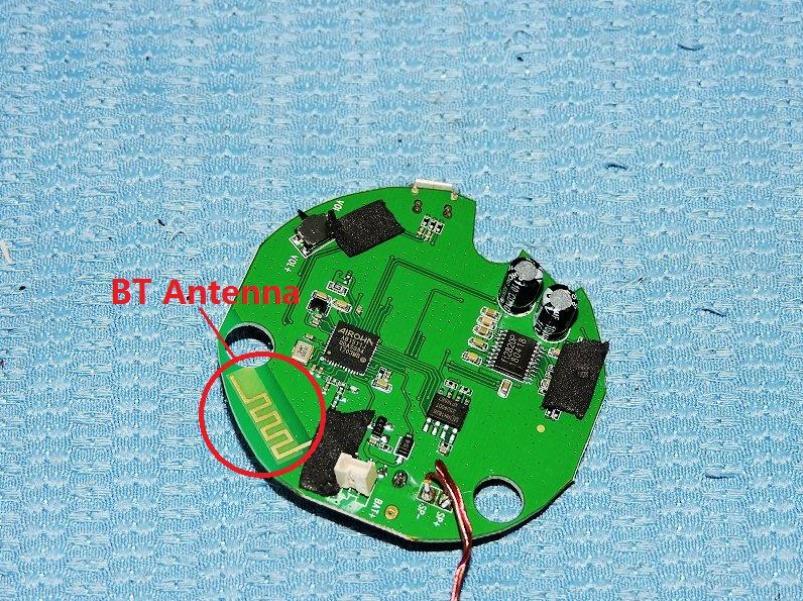
Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.16 2014	May.15 2019
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 27 2018	June. 26 2019
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 27 2018	June. 26 2019
4	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	GTS226	June. 27 2018	June. 26 2019
5	Coaxial Cable	GTS	N/A	GTS227	June. 27 2018	June. 26 2019
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
7	Thermo meter	KTJ	TA328	GTS233	June. 27 2018	June. 26 2019
8	Absorbing clamp	Elektronik-Feinmechanik	MDS21	GTS229	June. 27 2018	June. 26 2019

RF Conducted Test:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	June. 27 2018	June. 26 2019
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 27 2018	June. 26 2019
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 27 2018	June. 26 2019
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 27 2018	June. 26 2019
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 27 2018	June. 26 2019
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 27 2018	June. 26 2019
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 27 2018	June. 26 2019
8	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 27 2018	June. 26 2019
9	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 27 2018	June. 26 2019

General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 27 2018	June. 26 2019
2	Barometer	ChangChun	DYM3	GTS255	June. 27 2018	June. 26 2019

7 Test results and Measurement Data

7.1 Antenna requirement

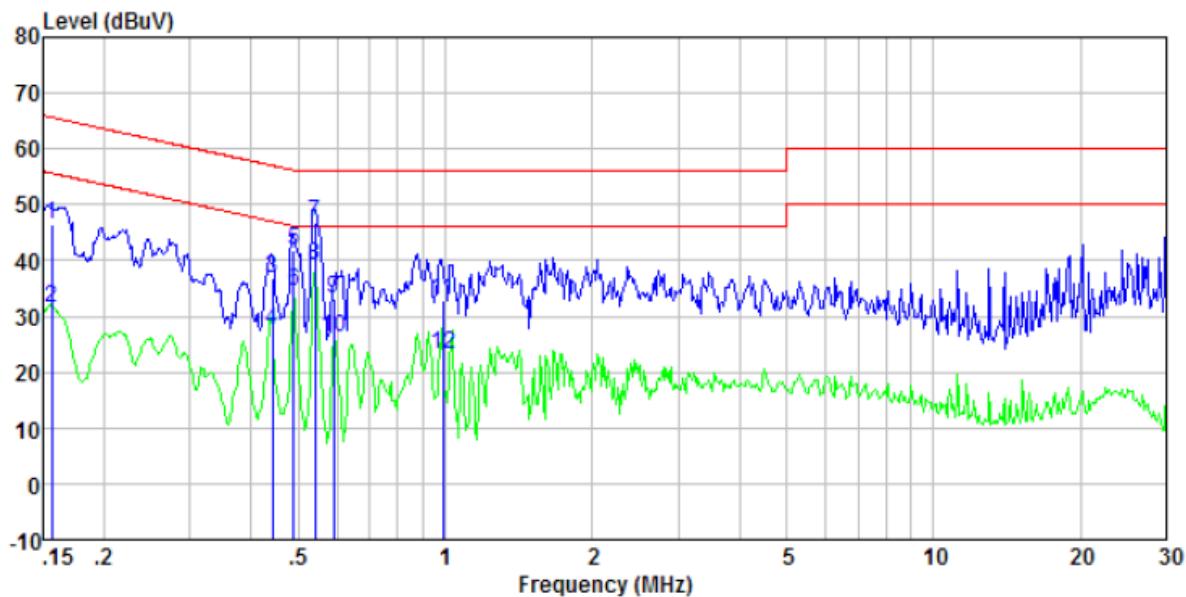
Standard requirement:	FCC Part15 C Section 15.203
<p>15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique 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.</p> <p>15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.</p>	
<p>E.U.T Antenna:</p> <p><i>The antenna is PCB antenna, the best case gain of the antenna is 0dBi</i></p> 	

7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207																		
Test Method:	ANSI C63.10:2013																		
Test Frequency Range:	150KHz to 30MHz																		
Class / Severity:	Class B																		
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto																		
Limit:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</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>					Frequency range (MHz)	Limit (dBuV)		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 (dBuV)																		
	Quasi-peak	Average																	
0.15-0.5	66 to 56*	56 to 46*																	
0.5-5	56	46																	
5-30	60	50																	
	* Decreases with the logarithm of the frequency.																		
Test setup:	<p>Remark E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>																		
Test procedure:	<ol style="list-style-type: none"> The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. 																		
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar													
Test Instruments:	Refer to section 6.0 for details																		
Test mode:	Refer to section 5.2 for details																		
Test voltage:	AC 120V, 60Hz																		
Test results:	Pass																		

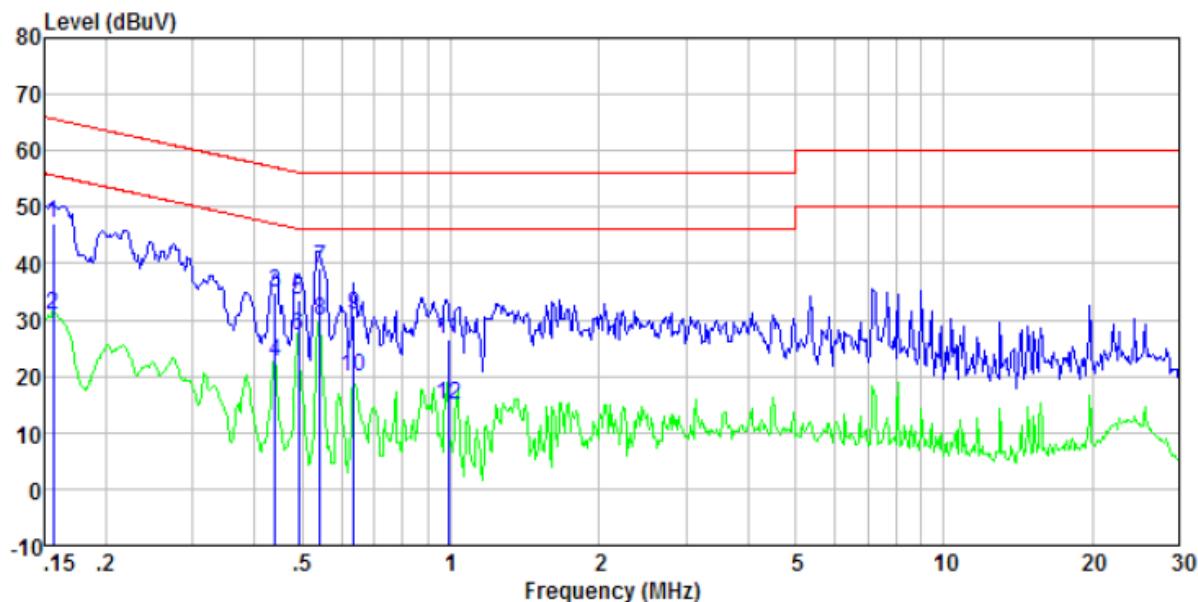
Measurement data:

Mode:	Transmitting mode	Test by:	Bill
Temp./Hum.(%H):	26°C/56%RH	Probe:	Line



Freq MHz	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0.16	46.00	0.40	0.08	46.48	65.65	-19.17	QP
0.16	31.12	0.40	0.08	31.60	55.65	-24.05	Average
0.44	36.52	0.34	0.11	36.97	57.02	-20.05	QP
0.44	27.07	0.34	0.11	27.52	47.02	-19.50	Average
0.49	41.38	0.32	0.11	41.81	56.19	-14.38	QP
0.49	33.97	0.32	0.11	34.40	46.19	-11.79	Average
0.54	46.42	0.30	0.11	46.83	56.00	-9.17	QP
0.54	38.84	0.30	0.11	39.25	46.00	-6.75	Average
0.59	32.91	0.29	0.12	33.32	56.00	-22.68	QP
0.59	25.83	0.29	0.12	26.24	46.00	-19.76	Average
0.99	32.35	0.20	0.15	32.70	56.00	-23.30	QP
0.99	23.00	0.20	0.15	23.35	46.00	-22.65	Average

Mode:	Transmitting mode	Test by:	Bill
Temp./Hum.(%H):	26°C/56%RH	Probe:	Neutral

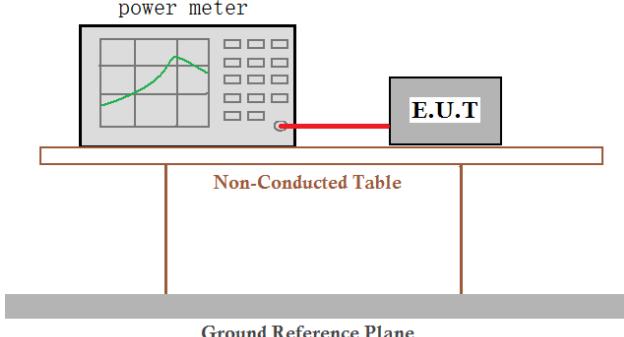


Freq MHz	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0.16	46.52	0.40	0.08	47.00	65.65	-18.65	QP
0.16	30.27	0.40	0.08	30.75	55.65	-24.90	Average
0.44	34.33	0.34	0.11	34.78	57.07	-22.29	QP
0.44	22.10	0.34	0.11	22.55	47.07	-24.52	Average
0.49	33.08	0.32	0.11	33.51	56.14	-22.63	QP
0.49	26.71	0.32	0.11	27.14	46.14	-19.00	Average
0.54	38.64	0.30	0.12	39.06	56.00	-16.94	QP
0.54	29.57	0.30	0.12	29.99	46.00	-16.01	Average
0.64	30.61	0.28	0.12	31.01	56.00	-24.99	QP
0.64	19.62	0.28	0.12	20.02	46.00	-25.98	Average
0.99	26.13	0.20	0.15	26.48	56.00	-29.52	QP
0.99	14.46	0.20	0.15	14.81	46.00	-31.19	Average

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level =Receiver Read level + LISN Factor + Cable Loss

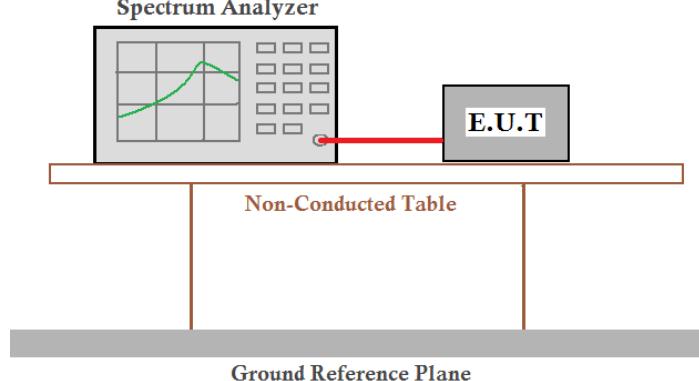
7.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(1)
Test Method:	ANSI C63.10:2013
Limit:	30dBm(for GFSK),20.97dBm(for EDR)
Test setup:	 <p>The diagram illustrates the test setup for conducted peak output power. A power meter is connected to the Equipment Under Test (E.U.T) via a red cable. The power meter displays a green waveform on its screen. The entire setup is positioned on a Non-Conducted Table, which sits above a solid grey Ground Reference Plane.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data

Mode	Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
GFSK	Lowest	2.83	30.00	Pass
	Middle	1.19		
	Highest	-1.22		
$\pi/4$ -DQPSK	Lowest	-1.06	20.97	Pass
	Middle	-1.25		
	Highest	-2.19		
8-DPSK	Lowest	-0.35	20.97	Pass
	Middle	-0.53		
	Highest	-2.08		

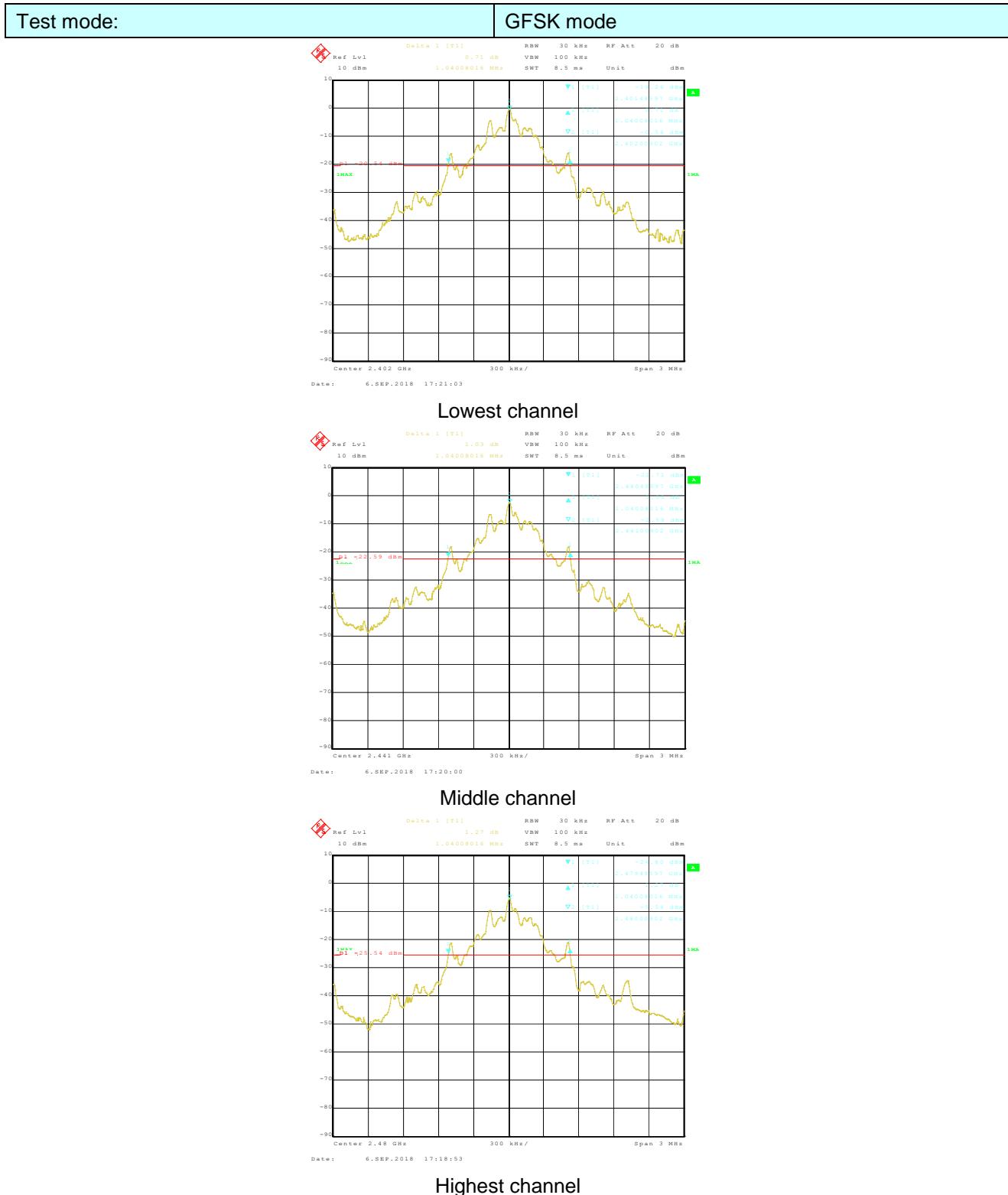
7.4 20dB Emission Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Limit:	N/A
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is positioned at the top, connected by a cable to a gray rectangular box labeled 'E.U.T'. This assembly sits on a light-colored rectangular table labeled 'Non-Conducted Table'. Below the table is a thick horizontal gray bar labeled 'Ground Reference Plane'.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data

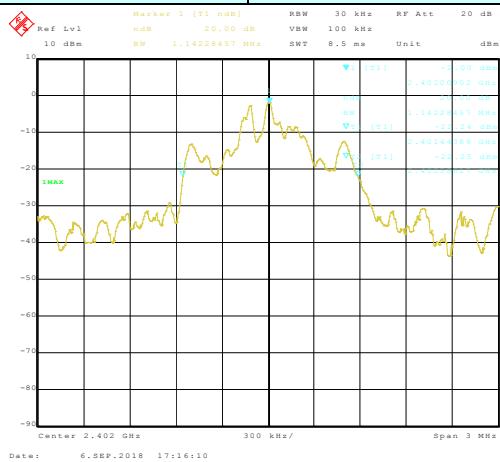
Mode	Test channel	20dB Emission Bandwidth (MHz)	Result
GFSK	Lowest	1.040	Pass
	Middle	1.040	
	Highest	1.040	
$\pi/4$ -DQPSK	Lowest	1.142	Pass
	Middle	1.142	
	Highest	1.136	
8-DPSK	Lowest	1.190	Pass
	Middle	1.196	
	Highest	1.202	

Test plot as follows:

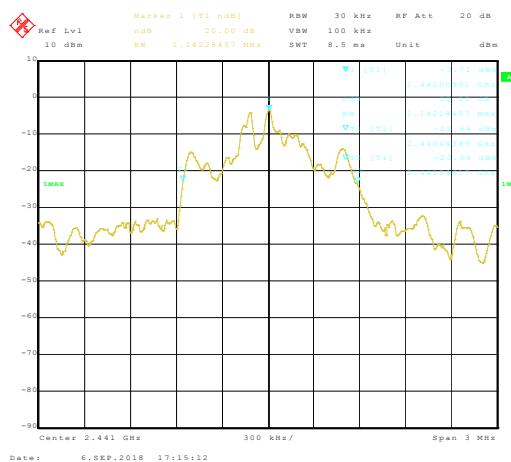


Test mode:

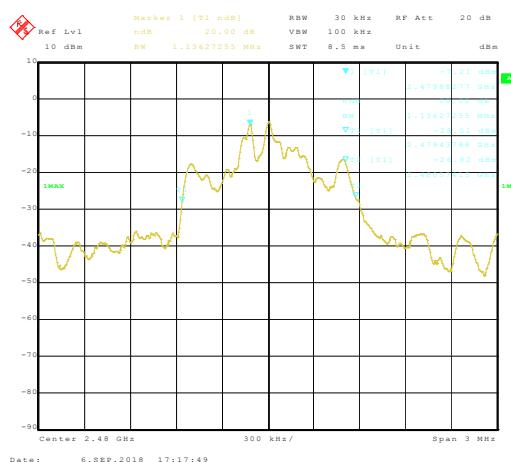
$\pi/4$ -DQPSK mode



Lowest channel



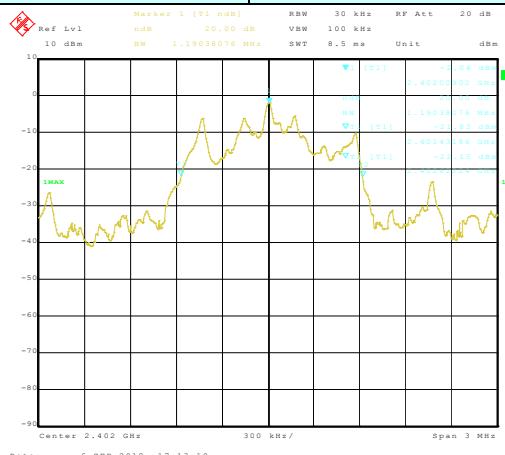
Middle channel



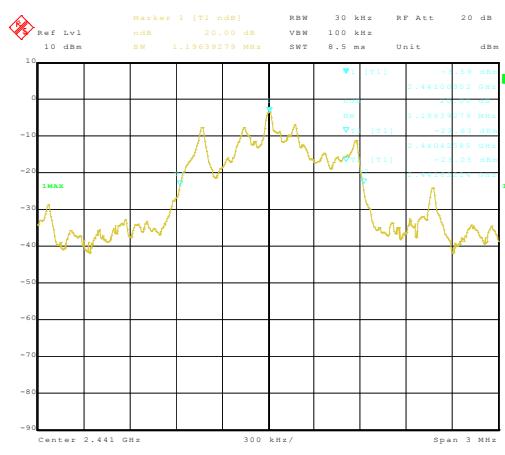
Highest channel

Test mode:

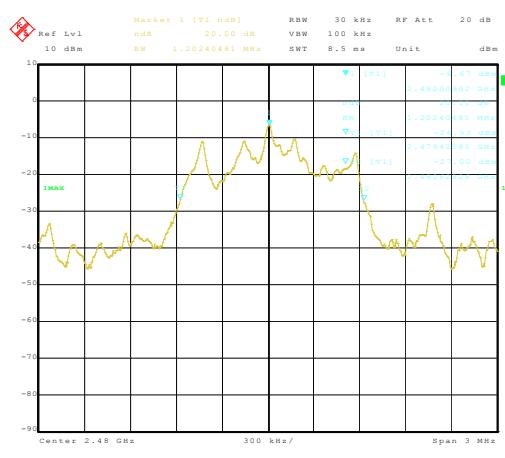
8-DPSK mode



Lowest channel

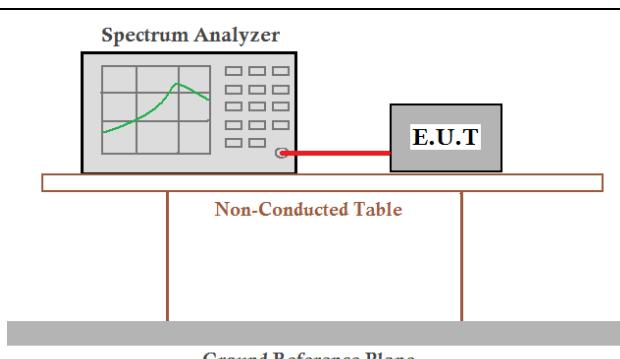


Middle channel



Highest channel

7.5 Carrier Frequencies Separation

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Receiver setup:	RBW=100KHz, VBW=300KHz, detector=Peak
Limit:	0.025MHz or 2/3 of the 20dB bandwidth (whichever is greater)
Test setup:	 <p>The diagram shows a 'Spectrum Analyzer' with a waveform on its screen. A red line connects it to a grey rectangular box labeled 'E.U.T'. This assembly rests on a horizontal brown bar labeled 'Non-Conducted Table'. Below the table is a thick grey horizontal bar labeled 'Ground Reference Plane'.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

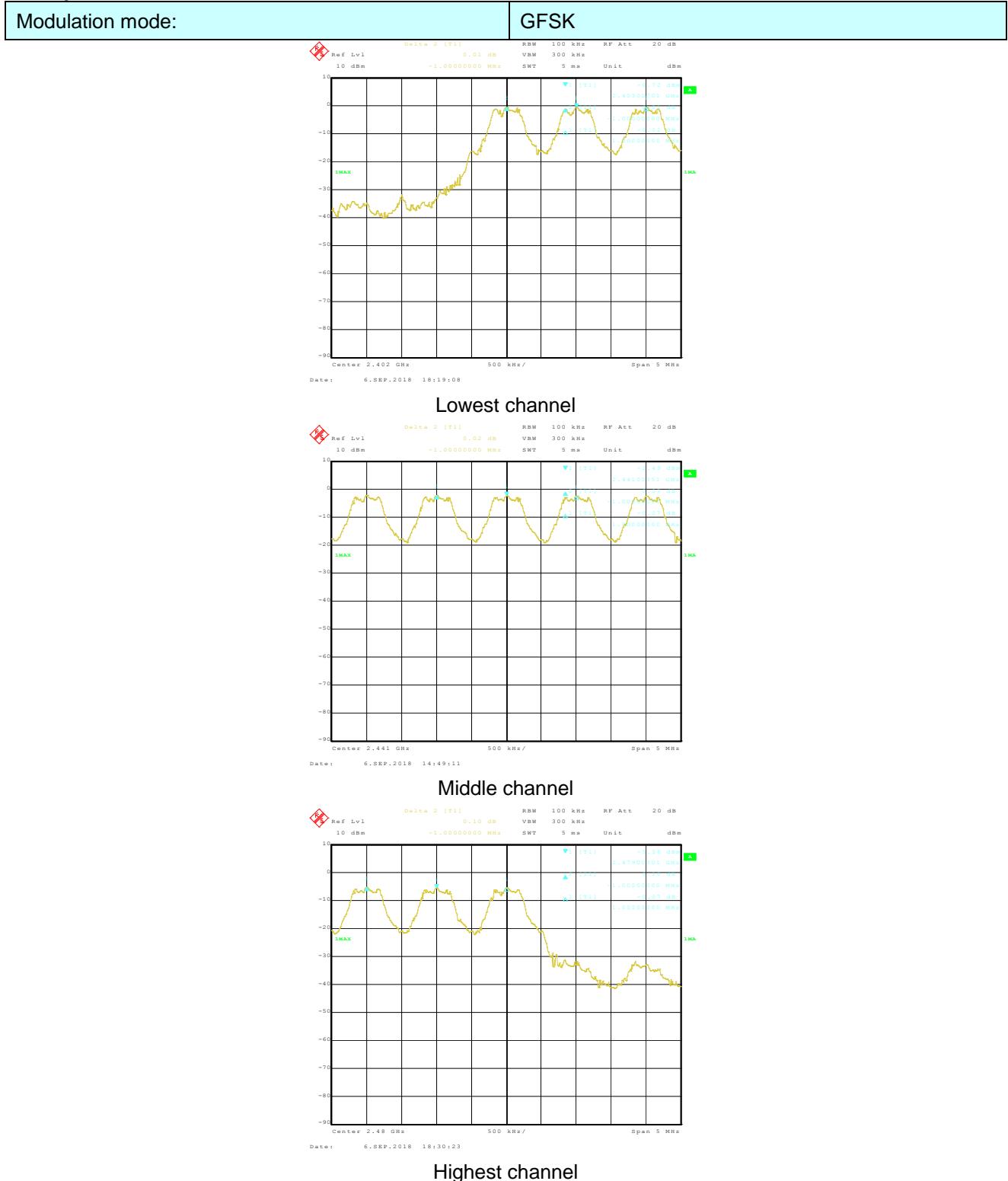
Measurement Data

Mode	Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
GFSK	Lowest	1000	1040	Pass
	Middle	1000	1040	Pass
	Highest	1000	1040	Pass
$\pi/4$ -DQPSK	Lowest	1000	761	Pass
	Middle	1000	761	Pass
	Highest	1000	761	Pass
8-DPSK	Lowest	1000	801	Pass
	Middle	1000	801	Pass
	Highest	1000	801	Pass

Note: According to section 7.4

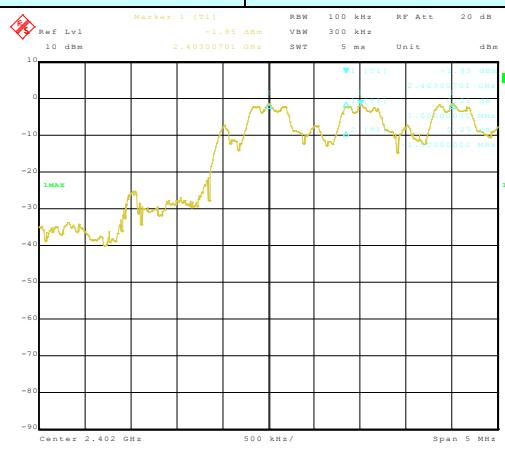
Mode	20dB bandwidth (kHz) (worse case)	Limit (kHz) (Carrier Frequencies Separation)
GFSK	1040	1040
$\pi/4$ -DQPSK	1142	761
8-DPSK	1202	801

Test plot as follows:

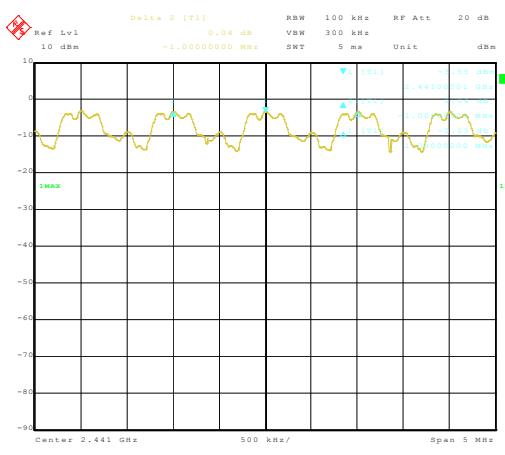


Test mode:

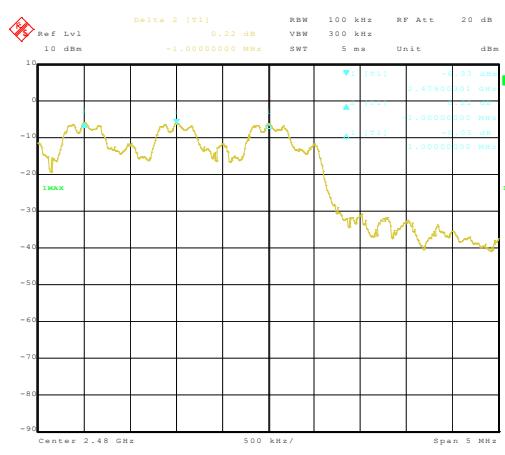
$\pi/4$ -DQPSK mode



Lowest channel



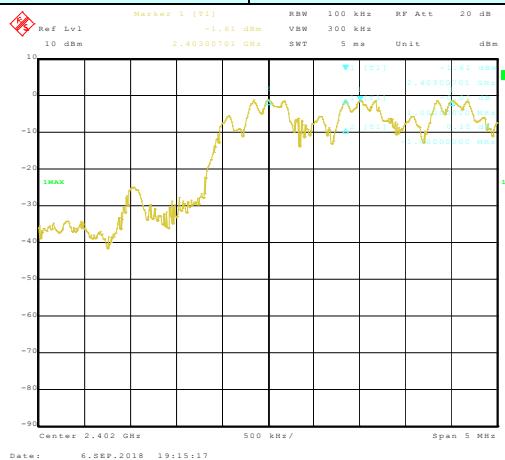
Middle channel



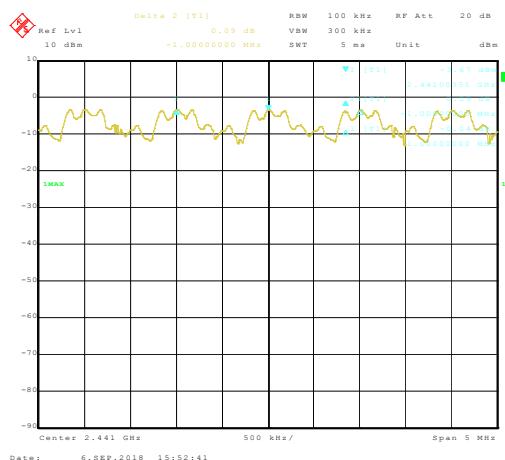
Highest channel

Test mode:

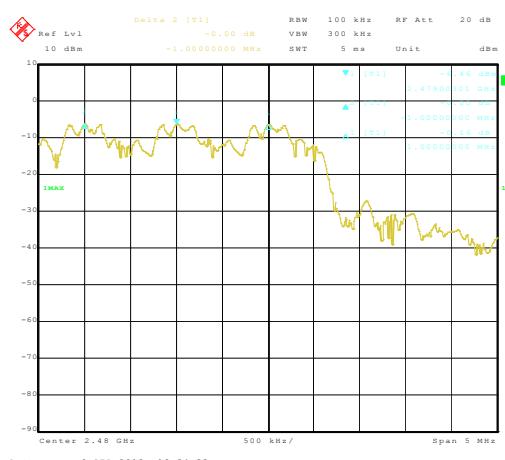
8-DPSK mode



Lowest channel

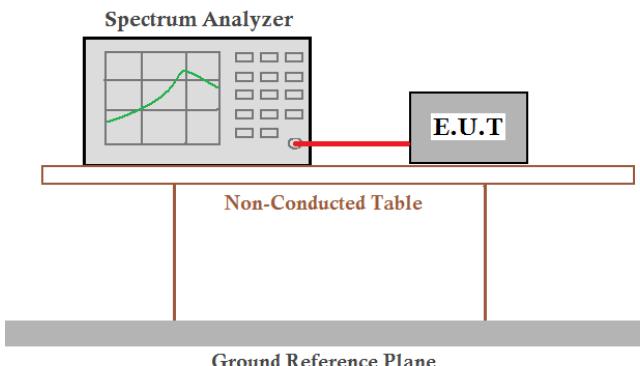


Middle channel



Highest channel

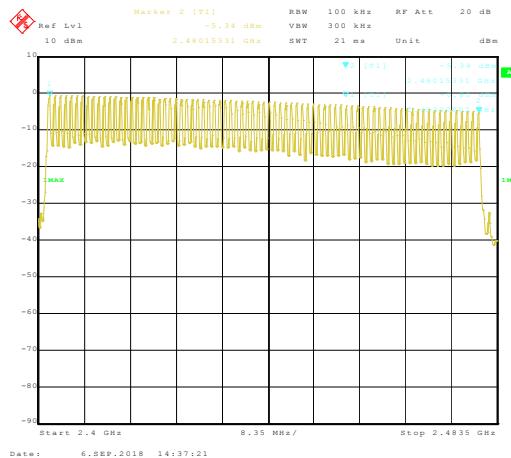
7.6 Hopping Channel Number

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Receiver setup:	RBW=100kHz, VBW=300kHz, Frequency range=2400MHz-2483.5MHz, Detector=Peak
Limit:	15 channels
Test setup:	 <p>The diagram shows a 'Spectrum Analyzer' with a green waveform on its screen. A red line connects it to a black rectangular box labeled 'E.U.T'. This assembly is positioned on a light-colored rectangular table labeled 'Non-Conducted Table'. Below the table is a dark grey horizontal bar labeled 'Ground Reference Plane'.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

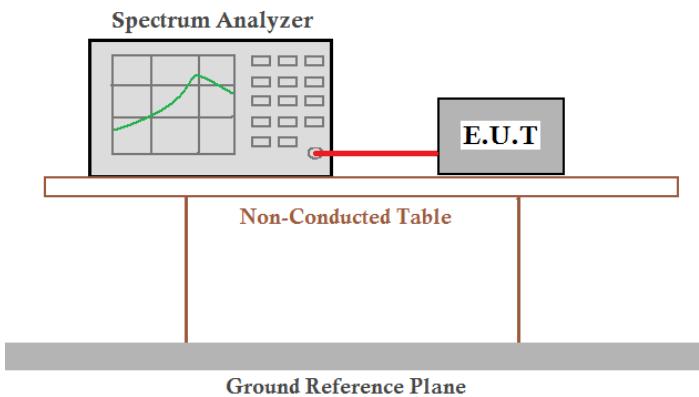
Measurement Data:

Mode	Hopping channel numbers	Limit	Result
GFSK	79	15	Pass
$\pi/4$ -DQPSK	79	15	Pass
8-DPSK	79	15	Pass

Test plot as follows:



7.7 Dwell Time

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Receiver setup:	RBW=1MHz, VBW=1MHz, Span=0Hz, Detector=Peak
Limit:	0.4 Second
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is positioned at the top left, connected by a red line to a grey rectangular box labeled 'E.U.T'. This box rests on a light blue rectangular platform labeled 'Non-Conducted Table'. Below the table is a thick grey horizontal bar labeled 'Ground Reference Plane'.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data

Frequency	Packet	Dwell time(ms)	Limit(ms)	Result
2441MHz	DH1	166.72	400	Pass
2441MHz	DH3	275.68	400	Pass
2441MHz	DH5	322.77	400	Pass

The test period: T = 0.4 Second/Channel x 79 Channel = 31.6 s

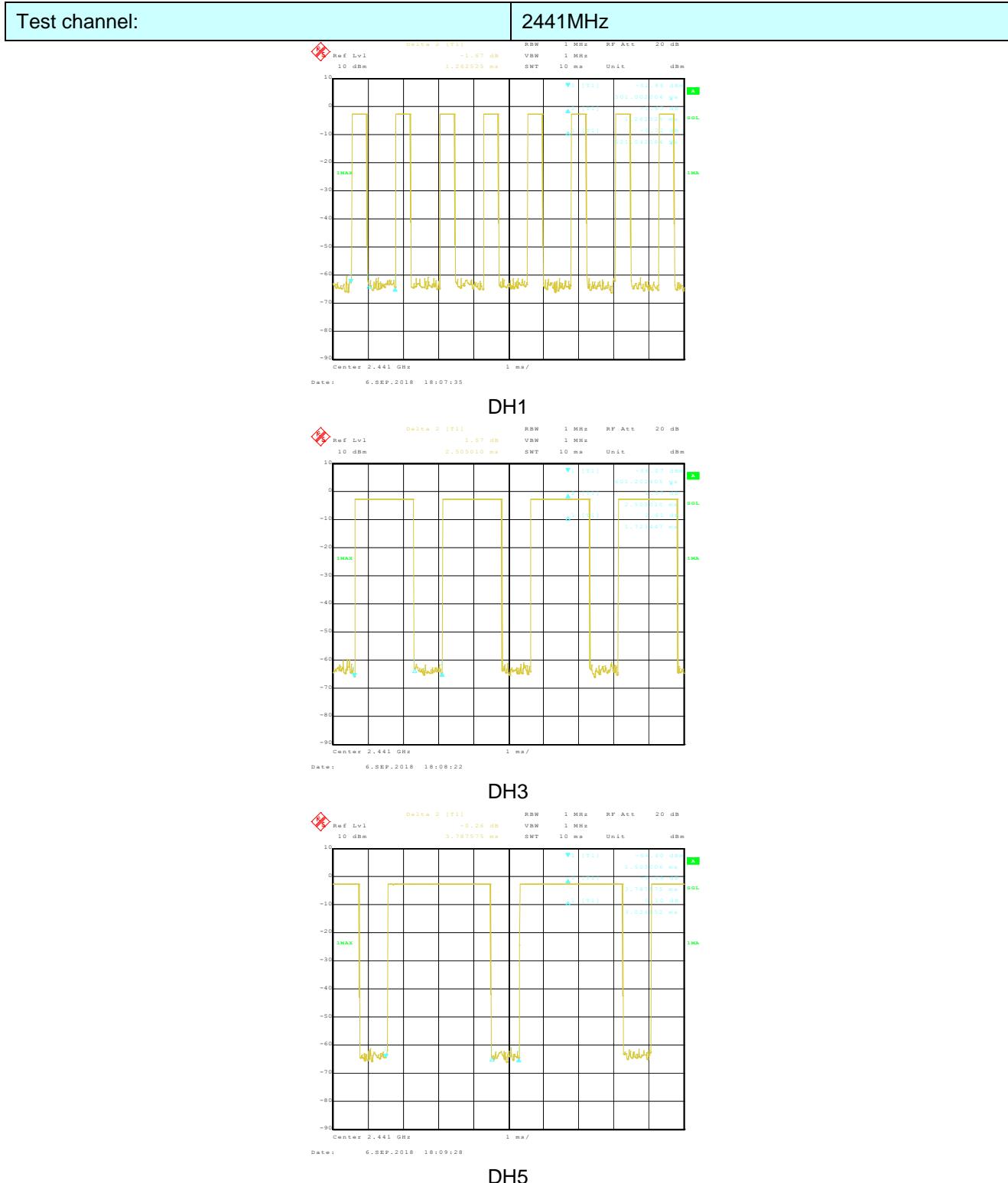
Test channel: 2441MHz as blow

$$\text{DH1 time slot} = 0.521(\text{ms}) * (1600 / (2 * 79)) * 31.6 = 166.72\text{ms}$$

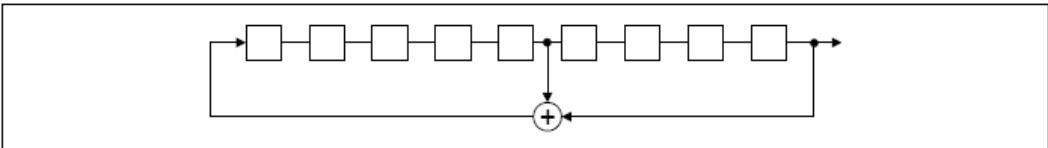
$$\text{DH3 time slot} = 1.723(\text{ms}) * (1600 / (4 * 79)) * 31.6 = 275.68\text{ms}$$

$$\text{DH5 time slot} = 3.026(\text{ms}) * (1600 / (6 * 79)) * 31.6 = 322.77\text{ms}$$

Test plot as follows:

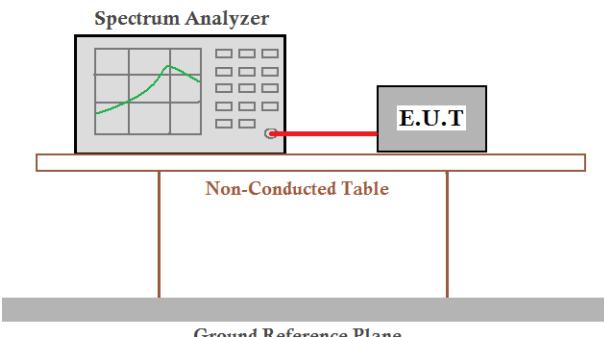


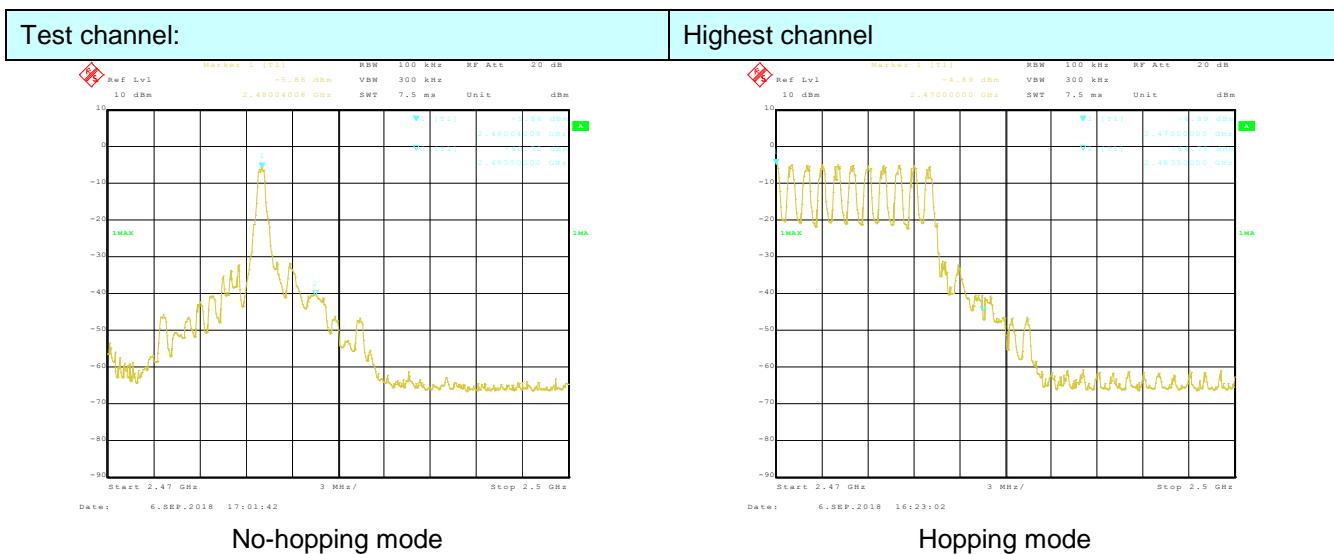
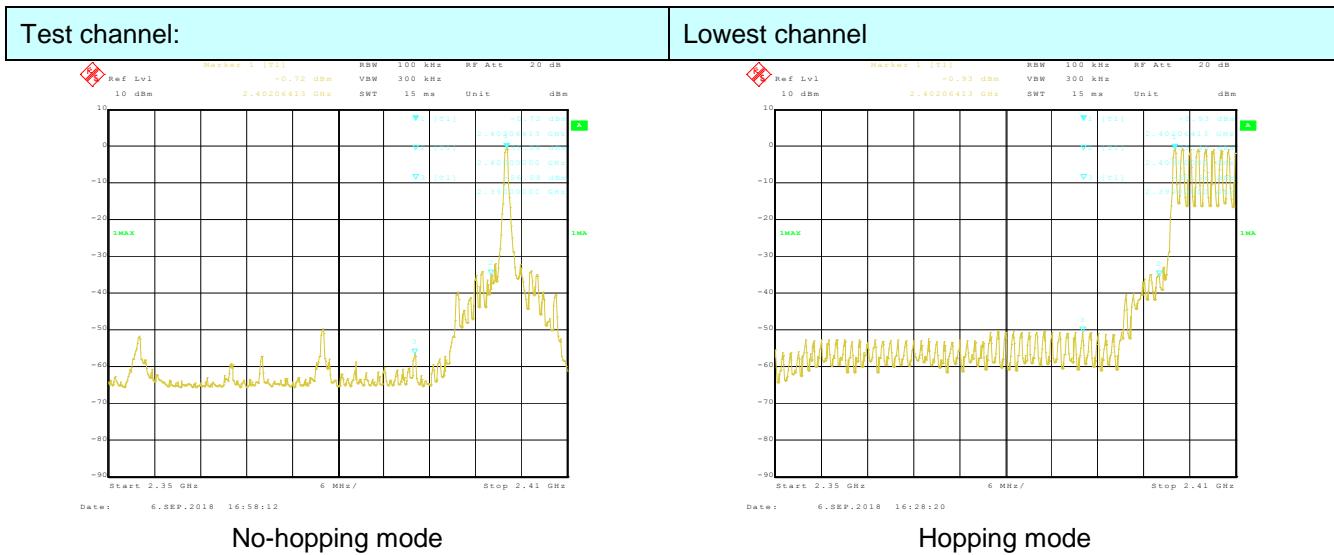
7.8 Pseudorandom Frequency Hopping Sequence

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)g/h requirement:																						
	<p>a(1): 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.</p> <p>Alternatively. Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel 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.</p> <p>(g) Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.</p> <p>(h) The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.</p>																						
EUT Pseudorandom Frequency Hopping Sequence	<p>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.</p> <ul style="list-style-type: none"> Number of shift register stages: 9 Length of pseudo-random sequence: $2^9 - 1 = 511$ bits Longest sequence of zeros: 8 (non-inverted signal)  <p><i>Linear Feedback Shift Register for Generation of the PRBS sequence</i></p> <p>An example of Pseudorandom Frequency Hopping Sequence as follow:</p> <table border="1"> <tr> <td>0</td> <td>2</td> <td>4</td> <td>6</td> <td>62</td> <td>64</td> <td>78</td> <td>1</td> <td>73</td> <td>75</td> <td>77</td> </tr> <tr> <td> </td> </tr> </table> <p>Each frequency used equally on the average by each transmitter.</p> <p>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.</p> <p>it permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted.</p>	0	2	4	6	62	64	78	1	73	75	77											
0	2	4	6	62	64	78	1	73	75	77													

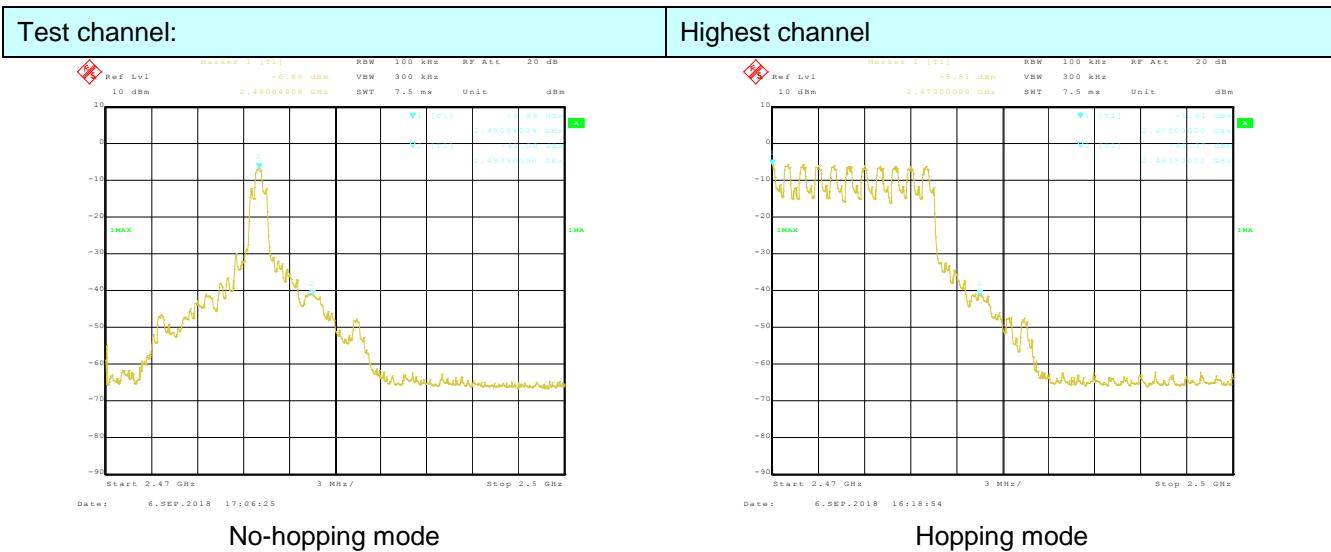
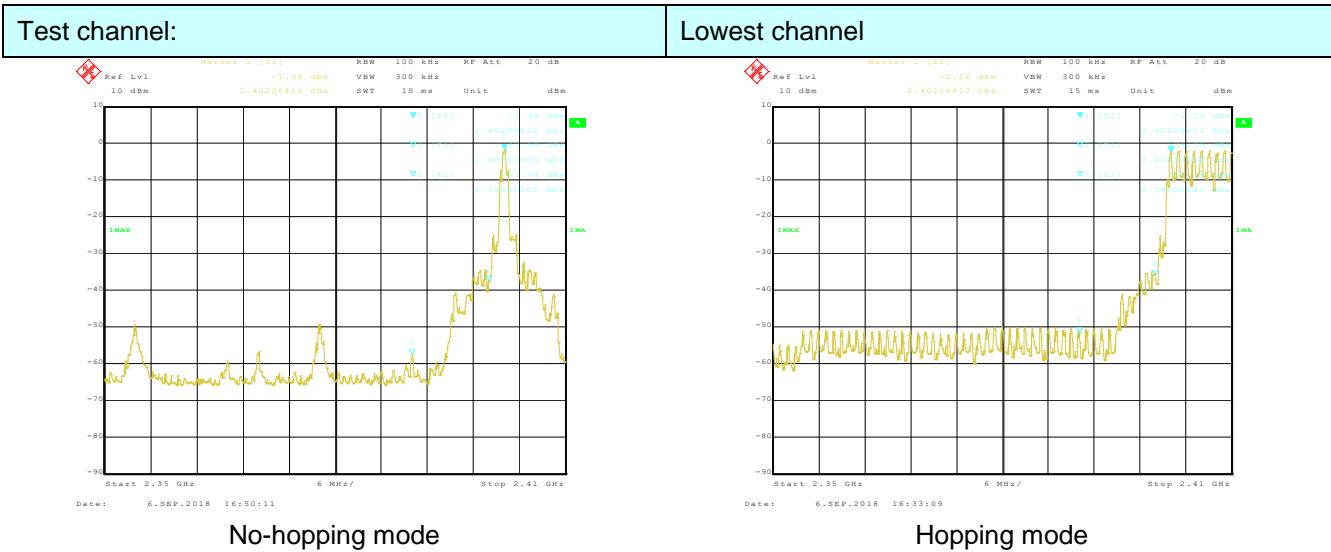
7.9 Band Edge

7.9.1 Conducted Emission Method

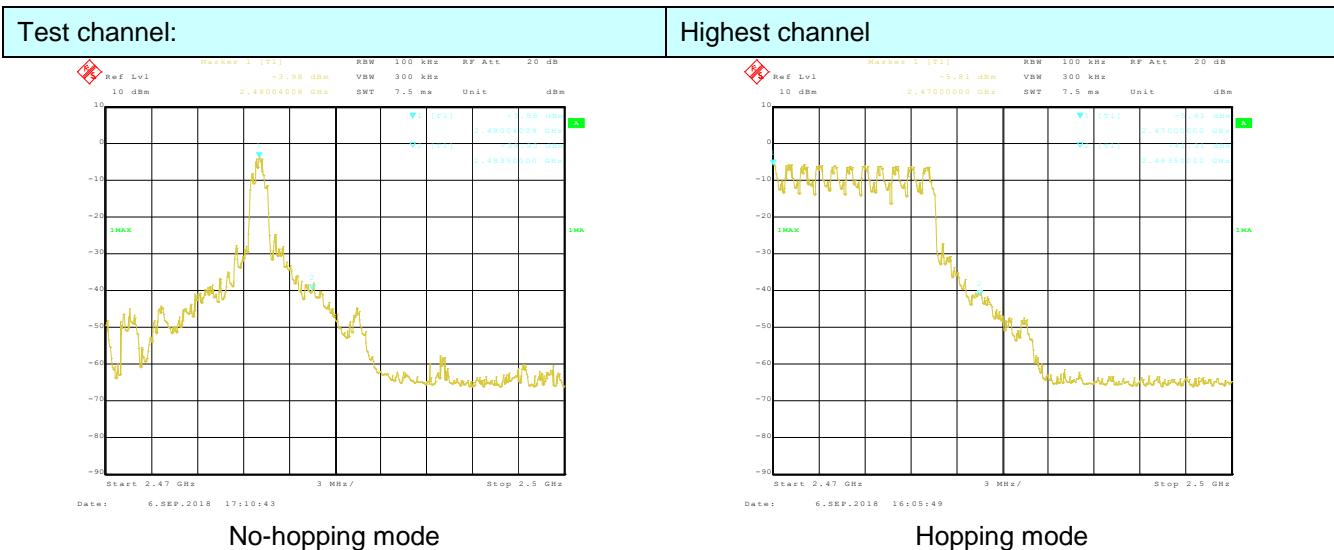
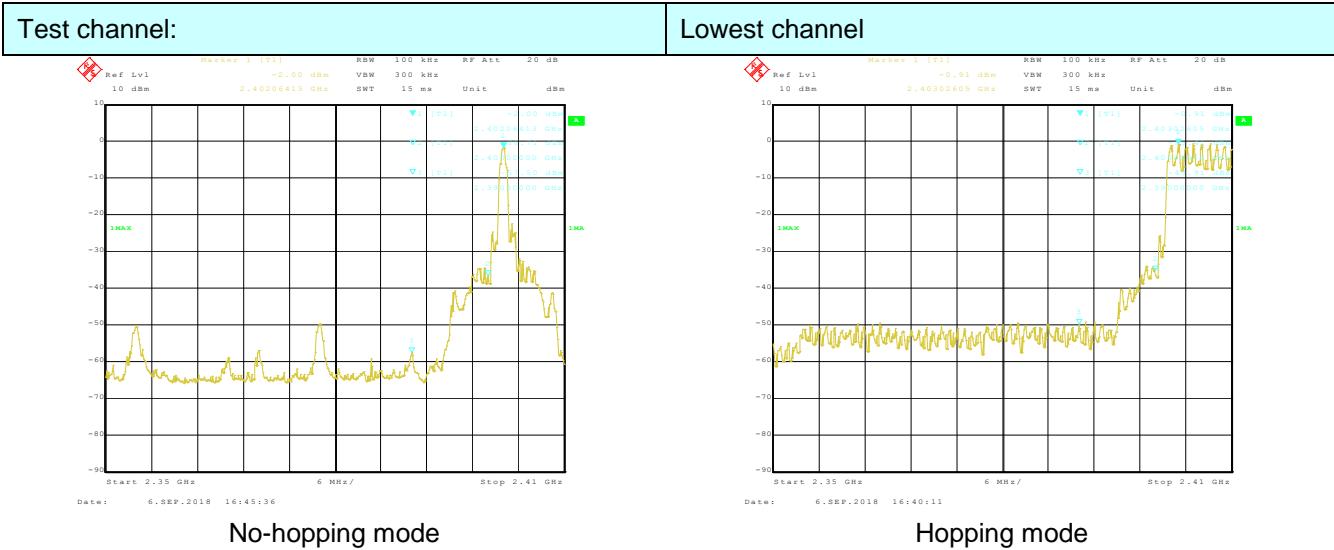
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013
Receiver setup:	RBW=100kHz, VBW=300kHz, Detector=Peak
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Test plot as follows:
GFSK Mode:


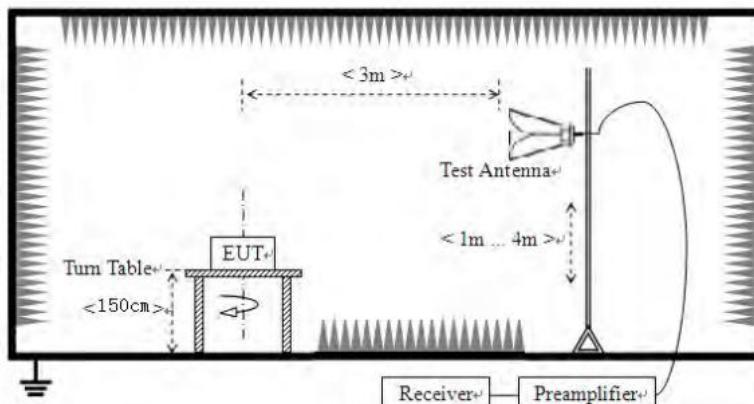
$\pi/4$ -DQPSK Mode:



8-DPSK Mode:



7.9.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205								
Test Method:	ANSI C63.10:2013								
Test Frequency Range:	All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed.								
Test site:	Measurement Distance: 3m								
Receiver setup:	Frequency	Detector	RBW	VBW	Remark				
	Above 1GHz	Peak	1MHz	3MHz	Peak Value				
Limit:	Frequency	Limit (dBuV/m @3m)		Remark					
	Above 1GHz	54.00		Average Value					
Test setup:	For radiated emissions above 1GHz 								
Test Procedure:	<ol style="list-style-type: none"> The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. 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 and the rota table 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. 								

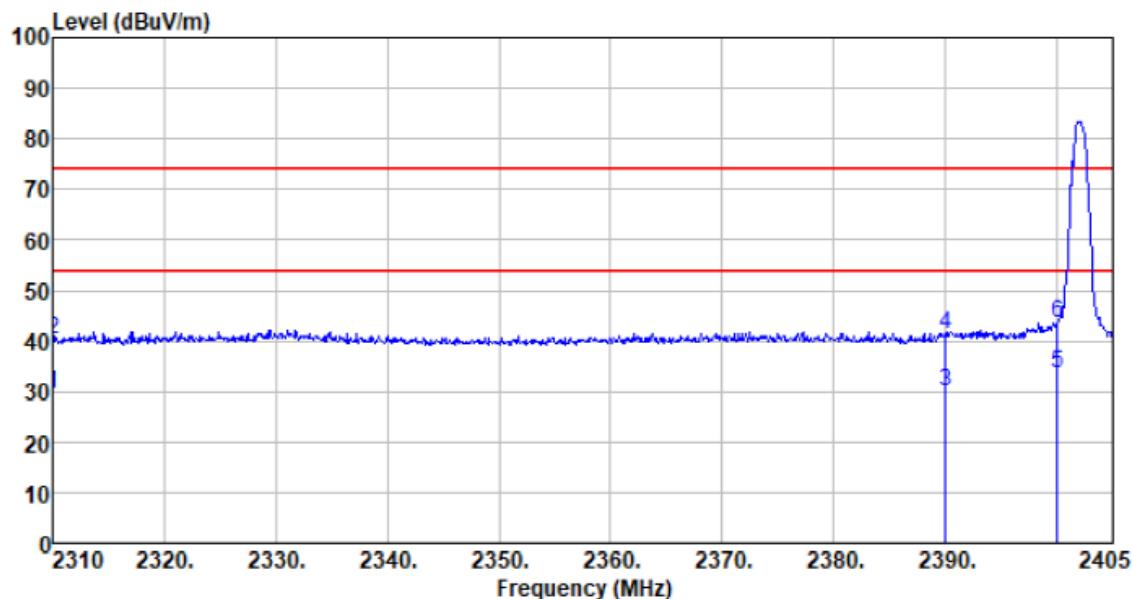
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1 012mbar
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test results:	Pass					

Remark:

1. During the test, pre-scan the GFSK, π/4-DQPSK, 8-DPSK modulation, and found the GFSK modulation which it is worse case.

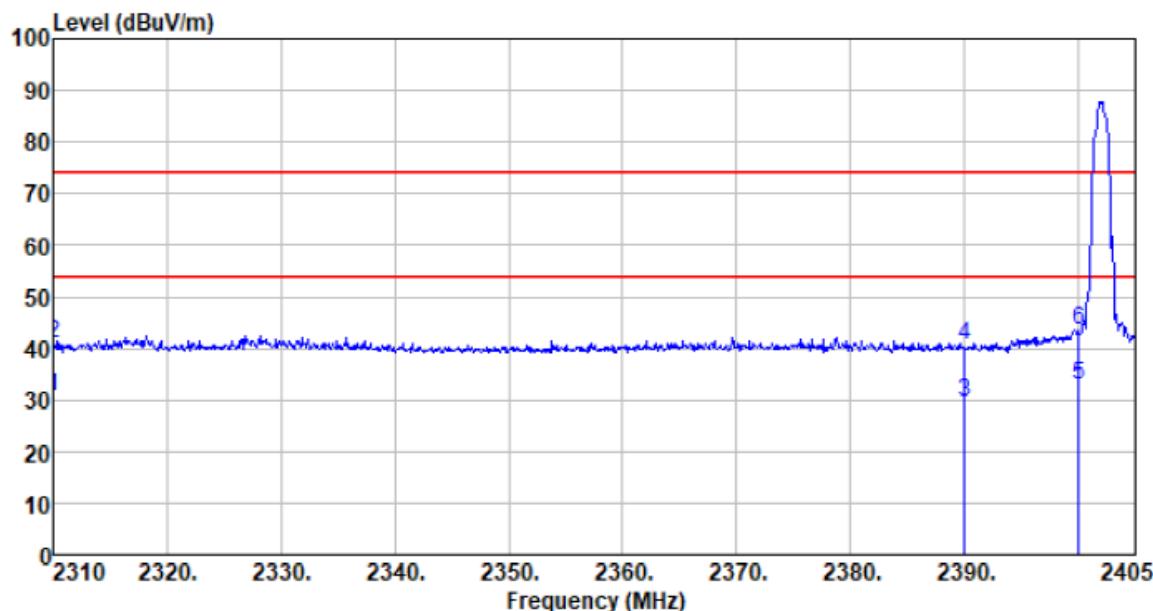
Test plot as follows:

Mode:	Transmitting mode	Test Frequency :	2402MHz
Temp./Hum.(%H):	26°C/56%RH	Polarization:	Horizontal



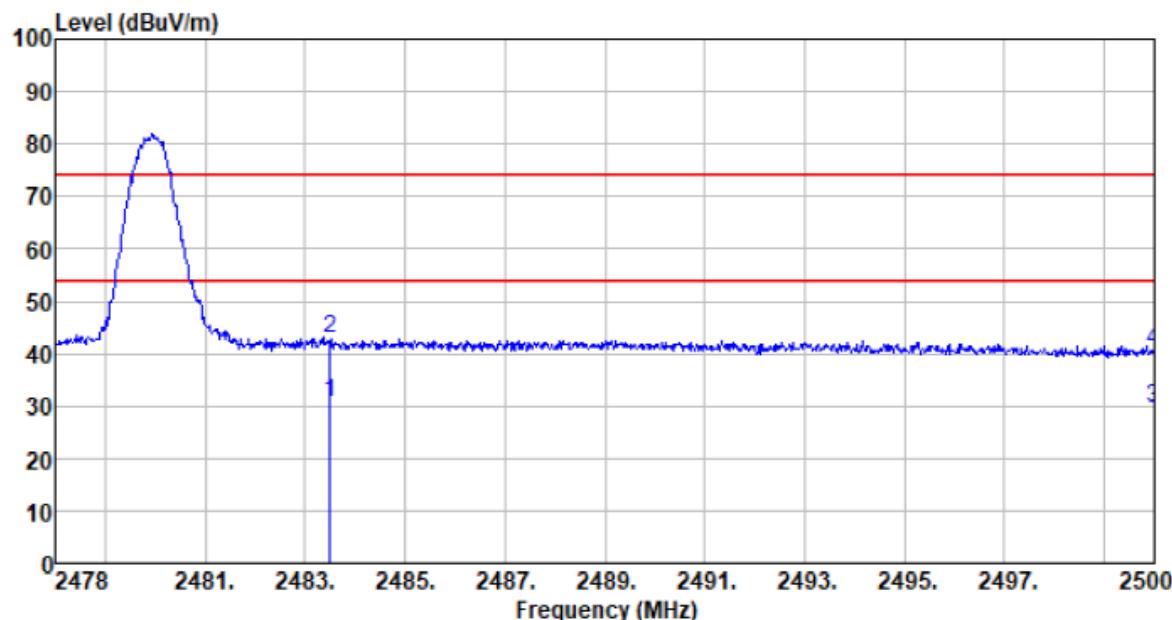
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
2310.000	20.84	27.91	5.30	24.64	29.41	54.00	-24.59	Average
2310.000	31.62	27.91	5.30	24.64	40.19	74.00	-33.81	Peak
2390.000	21.57	27.59	5.38	24.71	29.83	54.00	-24.17	Average
2390.000	33.09	27.59	5.38	24.71	41.35	74.00	-32.65	Peak
2400.000	25.19	27.58	5.39	24.72	33.44	54.00	-20.56	Average
2400.000	35.27	27.58	5.39	24.72	43.52	74.00	-30.48	Peak

Mode:	Transmitting mode	Test Frequency :	2402MHz
Temp./Hum.(%H):	26°C/56%RH	Polarization:	Vertical



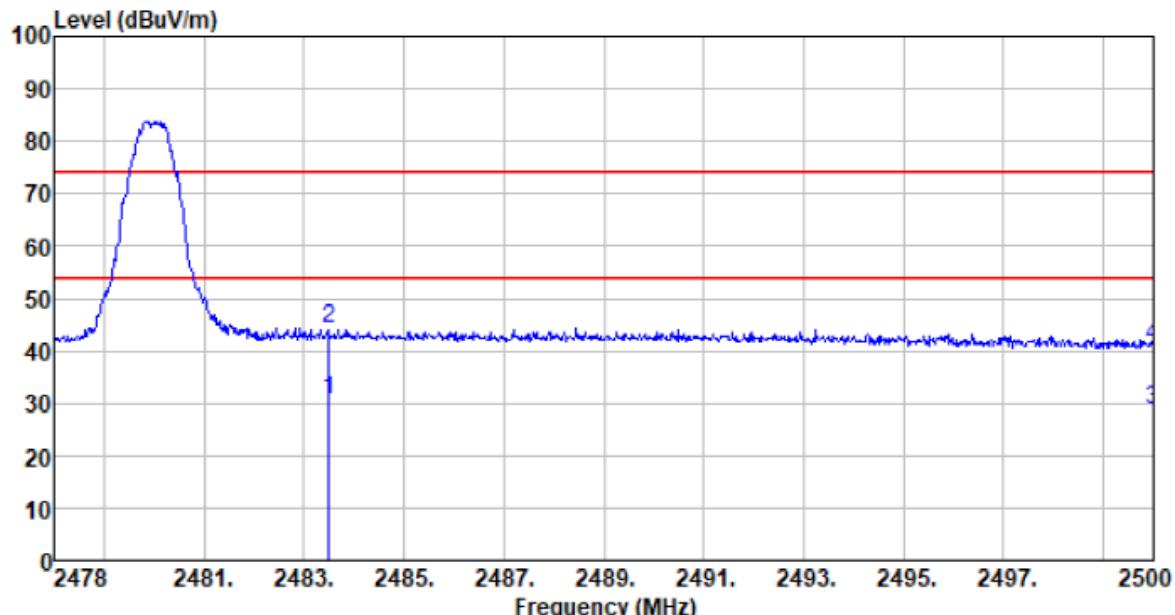
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	level dBuV	Limit level dBuV/m	Over limit dB	Remark
2310.000	21.97	27.91	5.30	24.64	30.54	54.00	-23.46	Average
2310.000	32.26	27.91	5.30	24.64	40.83	74.00	-33.17	Peak
2390.000	21.27	27.59	5.38	24.71	29.53	54.00	-24.47	Average
2390.000	32.16	27.59	5.38	24.71	40.42	74.00	-33.58	Peak
2400.000	24.56	27.58	5.39	24.72	32.81	54.00	-21.19	Average
2400.000	35.18	27.58	5.39	24.72	43.43	74.00	-30.57	Peak

Mode:	Transmitting mode	Test Frequency :	2480MHz
Temp./Hum.(%H):	26°C/56%RH	Polarization:	Horizontal



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV	Limit level dBuV/m	Over limit dB	Remark
2483.500	22.49	27.53	5.47	24.80	30.69	54.00	-23.31	Average
2483.500	34.51	27.53	5.47	24.80	42.71	74.00	-31.29	Peak
2500.000	21.28	27.55	5.49	24.86	29.46	54.00	-24.54	Average
2500.000	32.47	27.55	5.49	24.86	40.65	74.00	-33.35	Peak

Mode:	Transmitting mode	Test Frequency :	2480MHz
Temp./Hum.(%H):	26°C/56%RH	Polarization:	Vertical



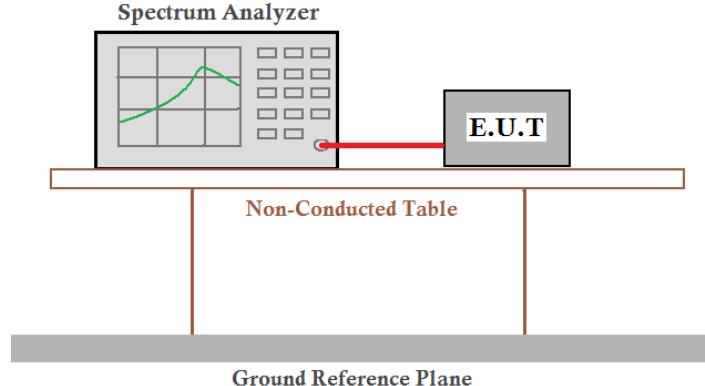
Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Level dBuV	Limit level dBuV/m	Over limit dB	Remark
2483.500	22.45	27.53	5.47	24.80	30.65	54.00	-23.35	Average
2483.500	36.25	27.53	5.47	24.80	44.45	74.00	-29.55	Peak
2500.000	20.67	27.55	5.49	24.86	28.85	54.00	-25.15	Average
2500.000	32.83	27.55	5.49	24.86	41.01	74.00	-32.99	Peak

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

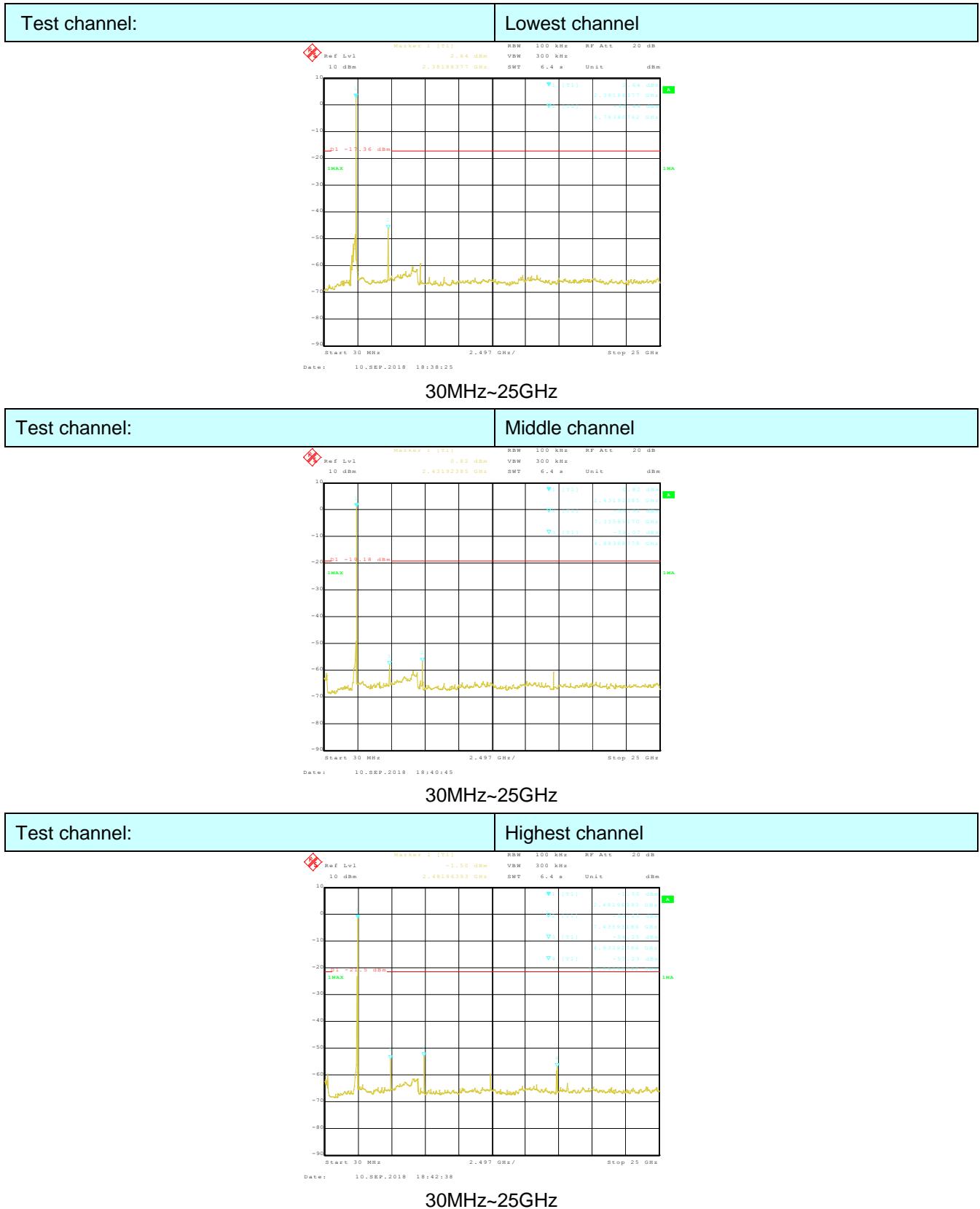
7.10 Spurious Emission

7.10.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	 <p>The diagram illustrates the test setup for conducted emission testing. A Spectrum Analyzer is connected to the E.U.T (Equipment Under Test) via a cable. The E.U.T is placed on a Non-Conducted Table. The entire setup is positioned above a Ground Reference Plane.</p>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

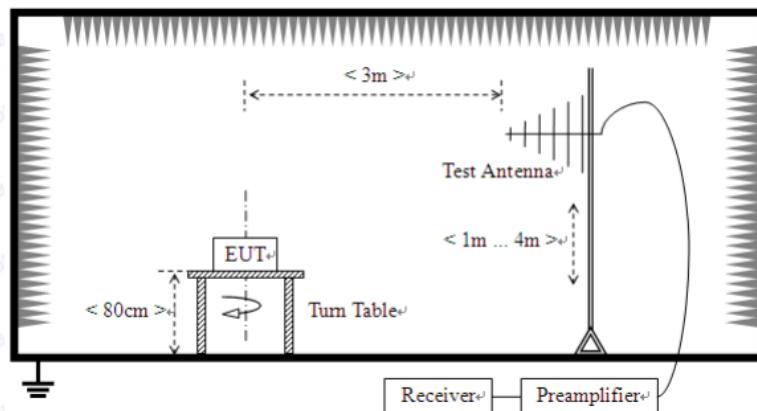
Remark:

1. During the test, pre-scan the GFSK, $\pi/4$ -DQPSK, 8-DPSK modulation, and found the GFSK modulation which it is worse case.

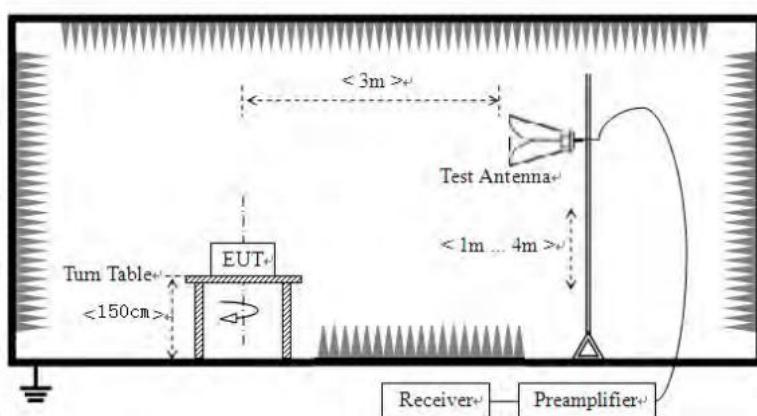


7.10.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209																									
Test Method:	ANSI C63.10:2013																									
Test Frequency Range:	9kHz to 25GHz																									
Test site:	Measurement Distance: 3m																									
Receiver setup:	<table border="1"> <thead> <tr> <th>Frequency</th><th>Detector</th><th>RBW</th><th>VBW</th><th>Value</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	Value	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak	Above 1GHz	Peak	1MHz	3MHz	Peak	Peak	1MHz	10Hz	Average		
Frequency	Detector	RBW	VBW	Value																						
30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak																						
Above 1GHz	Peak	1MHz	3MHz	Peak																						
	Peak	1MHz	10Hz	Average																						
Limit:	<table border="1"> <thead> <tr> <th>Frequency</th><th>Limit (uV/m)</th><th>Value</th><th>Measurement Distance</th></tr> </thead> <tbody> <tr> <td>30MHz-88MHz</td><td>100</td><td>QP</td><td rowspan="7">3m</td></tr> <tr> <td>88MHz-216MHz</td><td>150</td><td>QP</td></tr> <tr> <td>216MHz-960MHz</td><td>200</td><td>QP</td></tr> <tr> <td>960MHz-1GHz</td><td>500</td><td>QP</td></tr> <tr> <td rowspan="2">Above 1GHz</td><td>500</td><td>Average</td></tr> <tr> <td>5000</td><td>Peak</td></tr> </tbody> </table>				Frequency	Limit (uV/m)	Value	Measurement Distance	30MHz-88MHz	100	QP	3m	88MHz-216MHz	150	QP	216MHz-960MHz	200	QP	960MHz-1GHz	500	QP	Above 1GHz	500	Average	5000	Peak
Frequency	Limit (uV/m)	Value	Measurement Distance																							
30MHz-88MHz	100	QP	3m																							
88MHz-216MHz	150	QP																								
216MHz-960MHz	200	QP																								
960MHz-1GHz	500	QP																								
Above 1GHz	500	Average																								
	5000	Peak																								
Test setup:	<p>For radiated emissions from 9kHz to 30MHz</p> <p>The diagram illustrates the test setup for radiated emissions. An Equipment Under Test (EUT) is positioned on a turntable at a height of less than 80cm. The distance between the EUT and the test antenna is indicated as < 3m >. The test antenna is connected to a receiver and a preamplifier. The entire setup is within a Faraday cage.</p> <p>For radiated emissions from 30MHz to 1GHz</p>																									



For radiated emissions above 1GHz



Test Procedure:

1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. 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.
4. 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. 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.					
Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test results:	Pass					
Test voltage:	AC120V 60Hz					

Measurement data:**Remark:**

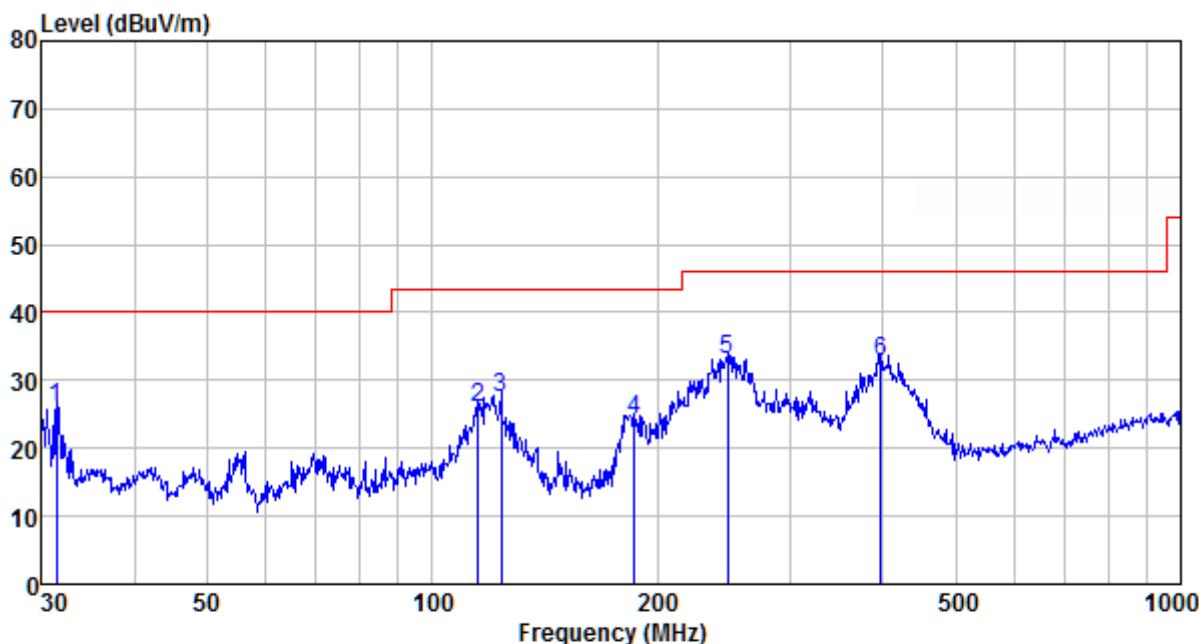
1. During the test, pre-scan the GFSK, π/4-DQPSK, 8-DPSK modulation, and found the GFSK modulation which it is worse case.
2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

■ 9kHz~30MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

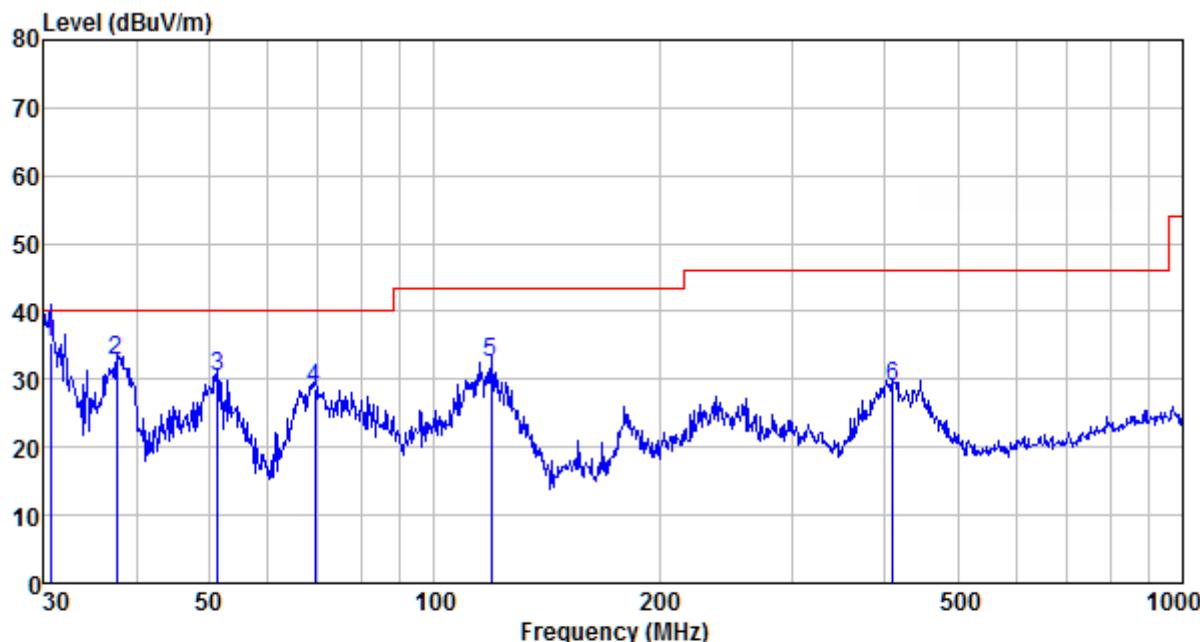
■ Below 1GHz

Mode:	Transmitting mode	Test by:	Bill
Temp./Hum.(%H):	26°C/56%RH	Polarization:	Horizontal



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamp factor dB	Preamp level dBuV	Limit level dBuV/m	Over limit dB	Remark
31.510	49.14	11.23	0.57	35.11	25.83	40.00	-14.17	QP
115.321	51.32	10.26	1.32	36.85	26.05	43.50	-17.45	QP
123.699	54.10	8.96	1.39	36.91	27.54	43.50	-15.96	QP
186.441	50.02	9.57	1.77	37.27	24.09	43.50	-19.41	QP
247.682	56.18	12.07	2.11	37.38	32.98	46.00	-13.02	QP
397.633	52.08	15.27	2.84	37.52	32.67	46.00	-13.33	QP

Mode:	Transmitting mode	Test by:	Bill
Temp./Hum.(%H):	26°C/56%RH	Polarization:	Vertical



Freq MHz	Reading level dBuV	Antenna factor dB/m	Cable loss dB	Preamplifier factor dB	Preamp level dBuV	Limit level dBuV/m	Over limit dB	Remark
30.745	58.60	11.22	0.56	35.06	35.32	40.00	-4.68	QP
37.680	55.74	11.80	0.64	35.53	32.65	40.00	-7.35	QP
51.301	53.57	12.15	0.78	36.20	30.30	40.00	-9.70	QP
69.357	56.39	7.73	0.94	36.43	28.63	40.00	-11.37	QP
119.018	58.44	9.67	1.35	36.87	32.59	43.50	-10.91	QP
410.383	47.96	15.54	2.91	37.52	28.89	46.00	-17.11	QP

■ Above 1GHz

Test channel:	Lowest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4804.00	36.14	31.78	8.60	32.09	44.43	74.00	-29.57	Vertical
7206.00	31.06	36.15	11.65	32.00	46.86	74.00	-27.14	Vertical
9608.00	30.78	37.95	14.14	31.62	51.25	74.00	-22.75	Vertical
12010.00	*					74.00		Vertical
14412.00	*					74.00		Vertical
4804.00	40.19	31.78	8.60	32.09	48.48	74.00	-25.52	Horizontal
7206.00	32.71	36.15	11.65	32.00	48.51	74.00	-25.49	Horizontal
9608.00	30.09	37.95	14.14	31.62	50.56	74.00	-23.44	Horizontal
12010.00	*					74.00		Horizontal
14412.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4804.00	25.17	31.78	8.60	32.09	33.46	54.00	-20.54	Vertical
7206.00	19.88	36.15	11.65	32.00	35.68	54.00	-18.32	Vertical
9608.00	19.03	37.95	14.14	31.62	39.50	54.00	-14.50	Vertical
12010.00	*					54.00		Vertical
14412.00	*					54.00		Vertical
4804.00	29.27	31.78	8.60	32.09	37.56	54.00	-16.44	Horizontal
7206.00	21.97	36.15	11.65	32.00	37.77	54.00	-16.23	Horizontal
9608.00	18.66	37.95	14.14	31.62	39.13	54.00	-14.87	Horizontal
12010.00	*					54.00		Horizontal
14412.00	*					54.00		Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “**”, means this data is the too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test channel:	Middle
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4882.00	36.09	31.85	8.67	32.12	44.49	74.00	-29.51	Vertical
7323.00	31.02	36.37	11.72	31.89	47.22	74.00	-26.78	Vertical
9764.00	30.75	38.35	14.25	31.62	51.73	74.00	-22.27	Vertical
12205.00	*					74.00		Vertical
14646.00	*					74.00		Vertical
4882.00	40.12	31.85	8.67	32.12	48.52	74.00	-25.48	Horizontal
7323.00	32.67	36.37	11.72	31.89	48.87	74.00	-25.13	Horizontal
9764.00	30.06	38.35	14.25	31.62	51.04	74.00	-22.96	Horizontal
12205.00	*					74.00		Horizontal
14646.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4882.00	25.14	31.85	8.67	32.12	33.54	54.00	-20.46	Vertical
7323.00	19.85	36.37	11.72	31.89	36.05	54.00	-17.95	Vertical
9764.00	19.00	38.35	14.25	31.62	39.98	54.00	-14.02	Vertical
12205.00	*					54.00		Vertical
14646.00	*					54.00		Vertical
4882.00	29.23	31.85	8.67	32.12	37.63	54.00	-16.37	Horizontal
7323.00	21.94	36.37	11.72	31.89	38.14	54.00	-15.86	Horizontal
9764.00	18.63	38.35	14.25	31.62	39.61	54.00	-14.39	Horizontal
12205.00	*					54.00		Horizontal
14646.00	*					54.00		Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “**”, means this data is the too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

Test channel:	Highest
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Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4960.00	36.13	31.93	8.73	32.16	44.63	74.00	-29.37	Vertical
7440.00	31.05	36.59	11.79	31.78	47.65	74.00	-26.35	Vertical
9920.00	30.77	38.81	14.38	31.88	52.08	74.00	-21.92	Vertical
12400.00	*					74.00		Vertical
14880.00	*					74.00		Vertical
4960.00	40.18	31.93	8.73	32.16	48.68	74.00	-25.32	Horizontal
7440.00	32.70	36.59	11.79	31.78	49.30	74.00	-24.70	Horizontal
9920.00	30.09	38.81	14.38	31.88	51.40	74.00	-22.60	Horizontal
12400.00	*					74.00		Horizontal
14880.00	*					74.00		Horizontal

Average value:

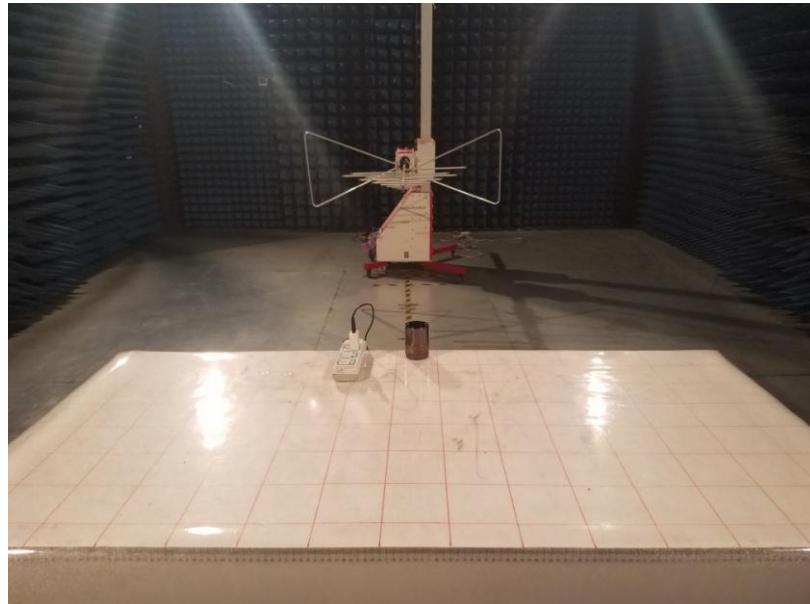
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4960.00	25.22	31.93	8.73	32.16	33.72	54.00	-20.28	Vertical
7440.00	19.90	36.59	11.79	31.78	36.50	54.00	-17.50	Vertical
9920.00	19.05	38.81	14.38	31.88	40.36	54.00	-13.64	Vertical
12400.00	*					54.00		Vertical
14880.00	*					54.00		Vertical
4960.00	29.32	31.93	8.73	32.16	37.82	54.00	-16.18	Horizontal
7440.00	22.00	36.59	11.79	31.78	38.60	54.00	-15.40	Horizontal
9920.00	18.69	38.81	14.38	31.88	40.00	54.00	-14.00	Horizontal
12400.00	*					54.00		Horizontal
14880.00	*					54.00		Horizontal

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. “**”, means this data is the too weak instrument of signal is unable to test.
3. The emission levels of other frequencies are very lower than the limit and not show in test report.

8 Test Setup Photo

Radiated Emission



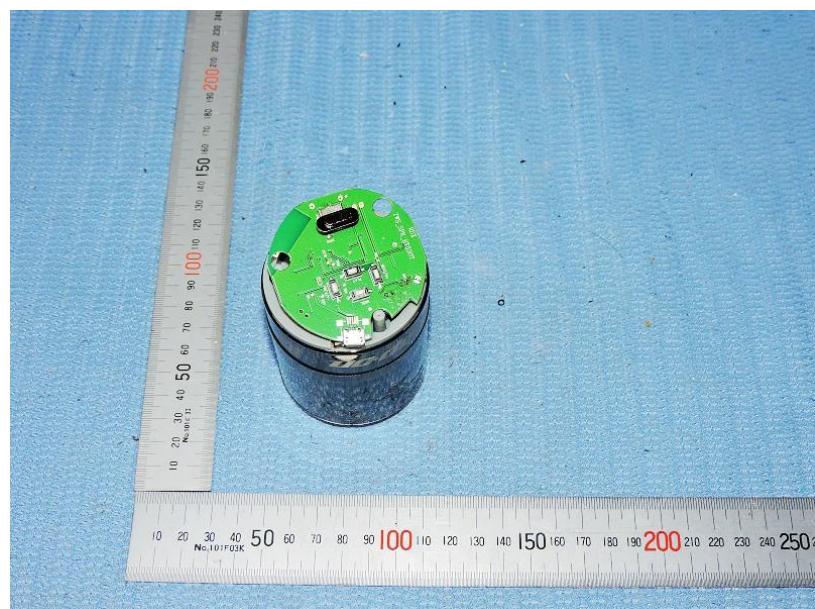
Conducted Emission

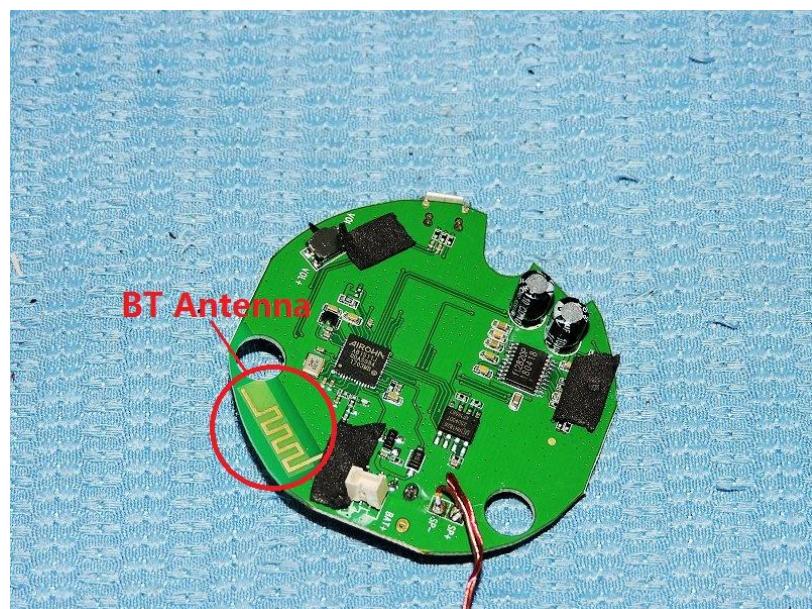
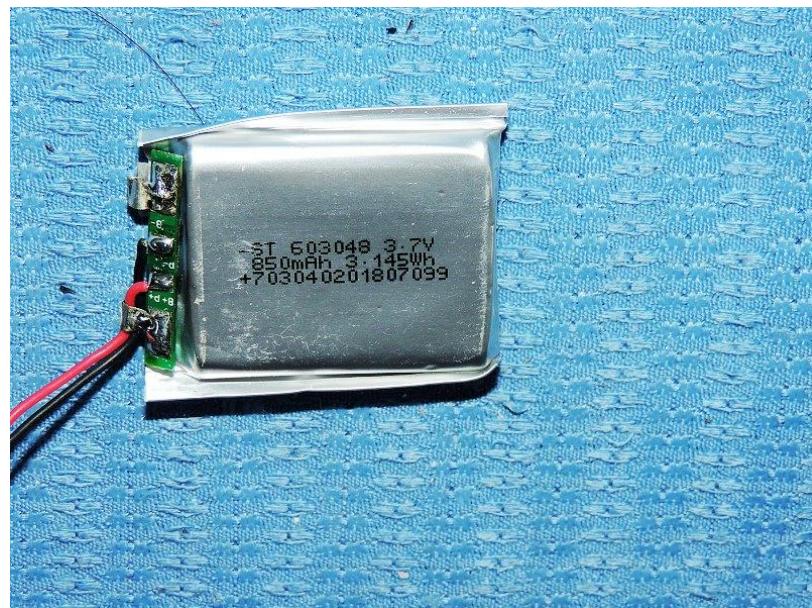


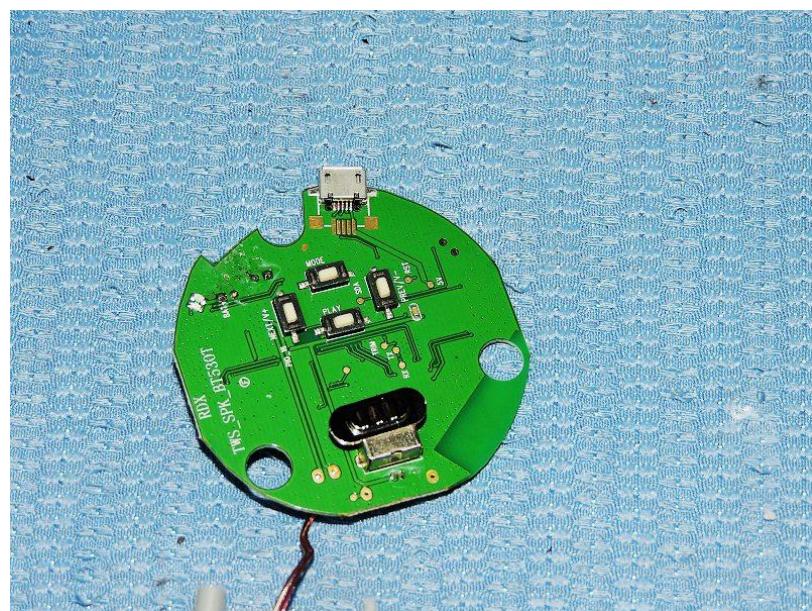
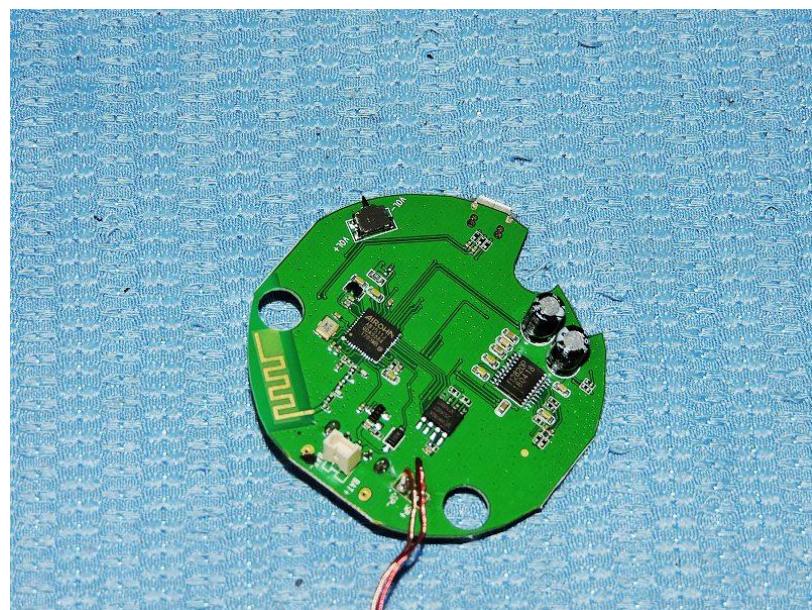
9 EUT Constructional Details

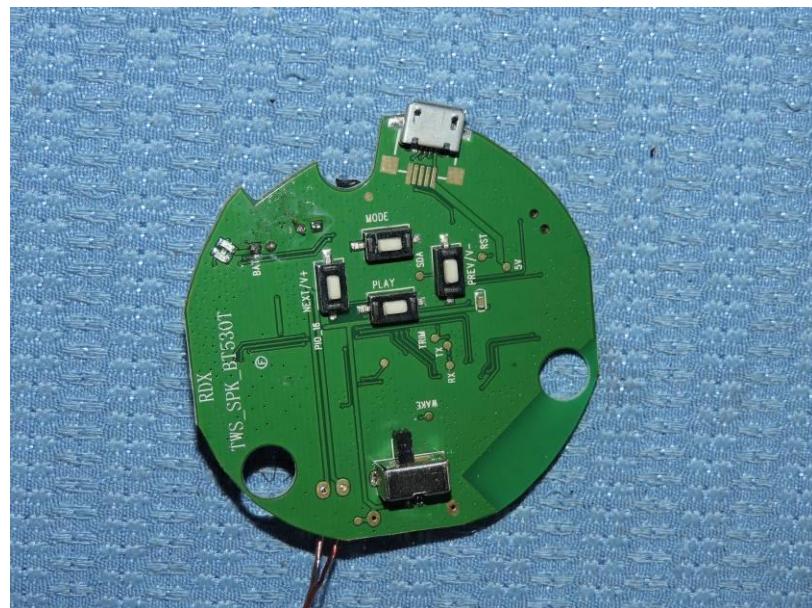












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