

FCC 47 CFR PART 15 SUBPART C

CERTIFICATION TEST REPORT

For

Tablet

MODEL No.: xTablet T1270

FCC ID: 086T1270

Trade Mark:MobileDemand

REPORT NO:ES171226956W01

ISSUE DATE: May 17, 2018

Prepared for

MobileDemand, L.C. 1501 Boyson Sq Dr, Ste 101 Hiawatha, Iowa, United States

Prepared by

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1 TEST RESULT CERTIFICATION

Applicant:	MobileDemand, L.C. 1501 Boyson Sq Dr, Ste 101 Hiawatha, Iowa, United States
Manufacture:	MobileDemand, L.C. No.88 East Qianjin Road, Kunshan city, Jiangsu province, China
Product Description:	Tablet
Model Number:	xTablet T1270
Trade Mark:	MobileDemand

Measurement Procedure Used:

APPLICABLE STANDARDS				
STANDARD	TEST RESULT			
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C	PASS			

The above equipment was tested by EMTEK(SHENZHEN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 2 and Part 15.247

The test results of this report relate only to the tested sample identified in this report.

Date of Test :	January 01, 2018 to May 17, 2018
Prepared by :	Sri Li
	Sevin Li/Editor
Reviewer :	Tree Wha
	Joe Xia/Supervisor
	4 8
Approve & Authorized Signer :	
	Lisa Wang/Manager



2 EUT TECHNICAL DESCRIPTION

Characteristics	Description		
Data Rate	1Mbps for GFSK modulation 2Mbps for pi/4-DQPSK modulation 3Mbps for 8DPSK modulation		
Modulation	GFSK modulation (1Mbps) pi/4-DQPSK modulation (2Mbps) 8DPSK modulation (3Mbps)		
Operating Frequency Range 2402-2480MHz			
Number of Channels	79 channels		
Transmit Power Max	7.09 dBm		
Antenna Type	FPC antenna		
Gain	2.77 dBi		
	⊠DC 7.6V internal rechargeable lithium battery ⊠DC 19.5V from Adapter		
Power supply	⊠Adapter: Model: ADP-120MH D INPUT: 100-240V~ 2.2A 50-60Hz OUTPUT: DC 19.5V, 6.15A		
Battery information:	Model: 2964125 Rating: DC 7.6V, 6200mAh, 47.12Wh		

Note: for more details, please refer to the User's manual of the EUT.

Ver.1.0



3 SUMMARY OF TEST RESULT

FCC PartClause	Test Parameter	Verdict	Remark
15.247(a)(1)	20 dB Bandwidth	PASS	
15.247(a)(1)	Carrier Frequency Separation	PASS	
15.247(a)(1)	Number of Hopping Frequencies	PASS	
15.247(a)(1)	Average Time of Occupancy (Dwell Time)	PASS	
15.247(b)(1)	Maximum Peak Conducted Output Power	PASS	
15.247(c)	Conducted Spurious Emissions	PASS	
15.247(d) 15.209	Radiated Spurious Emissions	PASS	
15.207	Conducted Emission	PASS	
15.203	Antenna Application	PASS	
	NOTE1:N/A (Not Applicable)		

RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is intended for FCC ID: O86T1270 filing to comply with Section 15.247 of the FCC Part 15, Subpart C.



4 TEST METHODOLOGY

4.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards: FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C DA 00-705

4.2 MEASUREMENT EQUIPMENT USED

4.2.1 Conducted Emission Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LASTCAL.	DUE CAL.
Test Receiver	Rohde & Schwarz	ESCI	26115-010-0027	May 20, 2017	May 19, 2018
L.I.S.N.	Rohde & Schwarz	ENV216	101161	May 20, 2017	May 19, 2018
50Ω Coaxial Switch	Anritsu	MP59B	6100175589	May 21, 2017	May 20, 2018
Voltage Probe	Rohde & Schwarz	ESH2-Z3	100122	May 21, 2017	May 20, 2018
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	May 20, 2017	May 19, 2018
I.S.N	Teseq GmbH	ISN T800	30327	May 21, 2017	May 20, 2018

4.2.2 Radiated Emission Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	DUE CAL.
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	May 21, 2017	May 20, 2018
Pre-Amplifier	HP	8447F	2944A07999	May 20, 2017	May 19, 2018
Bilog Antenna	Schwarzbeck	VULB9163	142	May 20, 2017	May 19, 2018
Loop Antenna	ARA	PLA-1030/B	1029	May 20, 2017	May 19, 2018
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170399	May 21, 2017	May 20, 2018
Horn Antenna	Schwarzbeck	BBHA 9120	D143	May 20, 2017	May 19, 2018
Cable	Schwarzbeck	AK9513	ACRX1	May 21, 2017	May 20, 2018
Cable	Rosenberger	N/A	FP2RX2	May 21, 2017	May 20, 2018
Cable	Schwarzbeck	AK9513	CRPX1	May 21, 2017	May 20, 2018
Cable	Schwarzbeck	AK9513	CRRX2	May 21, 2017	May 20, 2018

4.2.3 Radio Frequency Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LASTCAL.	DUE CAL.
Spectrum Analyzer	Agilent	E4407B	88156318	May 21, 2017	May 20, 2018
Signal Analyzer	Agilent	N9010A	My53470879	May 21, 2017	May 20, 2018
Power meter	Anritsu	ML2495A	0824006	May 21, 2017	May 20, 2018
Power sensor	Anritsu	MA2411B	0738172	May 21, 2017	May 20, 2018

Remark: Each piece of equipment is scheduled for calibration once a year.



4.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (1Mbps for Bluetooth GFSK modulation; 2Mbps for Bluetooth pi/4-DQPSK modulation; 3Mbps for Bluetooth8DPSK modulation) were used for all test.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	39	2441		
1	2403	40	2442	76	2478
2	2404	41	2443	77	2479
				78	2480
Note: fc=2402MHz+(k-1)×1MHz k=1 to 79					

Frequency and Channel list for Bluetooth BT3.0+EDR:

Test Frequency and channel for BT3.0+EDR:

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	39	2441	78	2480



5 FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

Bldg 69, Majialong Industry Zone District, Nanshan District, Shenzhen, China The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

5.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

- EMC Lab.
- : Accredited by CNAS, 2016.10.24 The certificate is valid until 2022.10.28 The Laboratory has been assessed and proved to be in compliance with CNAS-CL01: 2006(identical to ISO/IEC17025: 2005) The Certificate Registration Number is L2291
- : Accredited by TUV Rheinland Shenzhen, 2016.5.19 The Laboratory has been assessed according to the requirements ISO/IEC 17025.
- : Accredited by FCC, August 03, 2017 Designation Number: CN1204 Test Firm Registration Number: 882943 Accredited by A2LA, July 31, 2017 The Certificate Registration Number is 4321.01.
- : Accredited by Industry Canada, November 24, 2015 The Certificate Registration Number is 4480A

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6 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Radio Frequency	±1x10^-5
Maximum Peak Output Power Test	±1.0dB
Conducted Emissions Test	±2.0dB
Radiated Emission Test	±2.0dB
Occupied Bandwidth Test	±1.0dB
Band Edge Test	±3dB
All emission, radiated	±3dB
Antenna Port Emission	±3dB
Temperature	±0.5℃
Humidity	±3%

Measurement Uncertainty for a level of Confidence of 95%



7 SETUP OF EQUIPMENT UNDER TEST

7.1 RADIO FREQUENCY TEST SETUP 1

The Bluetooth component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



7.2 RADIO FREQUENCY TEST SETUP 2

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

Below 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT androtated about its vertical axis formaximum response at each azimuth about the EUT. The center of the loopshall be 1 m above the ground.For certain applications, the loop antennaplane may also need to be positioned horizontally at the specified distance from the EUT.

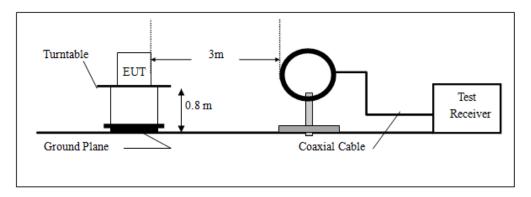
30MHz-1GHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

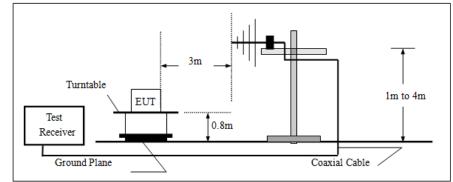
Above 1GHz:

The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

(a) Radiated Emission Test Set-Up, Frequency Below 30MHz

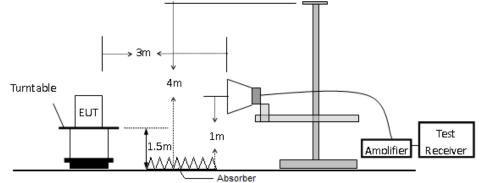






(b)Radiated Emission Test Set-Up, Frequency Below 1000MHz

(c) Radiated Emission Test Set-Up, Frequency above 1000MHz

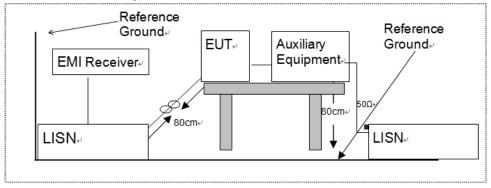


7.3 CONDUCTED EMISSION TEST SETUP

The mains cable of the EUT (Game fitness board) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m.

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.





7.4 SUPPORT EQUIPMENT

Item	Equipment	Mfr/Brand	Model/Type No.	Note
N/A	N/A	N/A	N/A	N/A

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



8 FREQUENCY HOPPING SYSTEM REQUIREMENTS

8.1 Standard Applicable

According to FCC Part 15.247(a)(1), The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly 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.

(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.

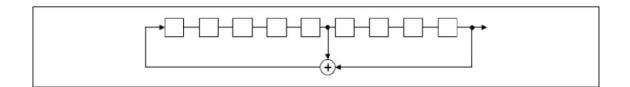
(h) The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination 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.

8.2 EUT Pseudorandom Frequency Hopping Sequence

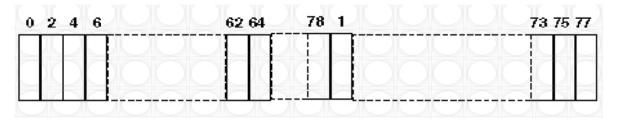
The channel is represented by a pseudo-random hopping sequence hopping through the 79 RF channels. The hopping sequence is unique for the piconet and is determined by the Bluetooth device address of the master; thephase in the hopping sequence is determined by the Bluetooth clock of the master. The channel is divide into time slots where each slot corresponds to an RF hop frequency. Consecutive hopscorrespond to different RF hop frequencies. The normal hop is 1 600 hops/s.

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: 29-1 = 524 bits Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence





Each frequency used equally on the average by each transmitter. The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

8.3 Equal Hopping Frequency Use

All Bluetooth units participating in the piconet are time and hop-synchronized to the channel.

Example of a 79 hopping sequence in data mode: 35, 27, 6, 44, 14, 61, 74, 32, 1, 11, 23, 2, 55, 65, 29, 3, 9, 52, 78, 58, 40, 25, 0, 7, 18, 26, 76, 60, 47, 50, 2, 5, 16, 37, 70, 63, 66, 54, 20, 13, 4, 8, 15, 21, 26, 10, 73, 77, 67, 69, 43, 24, 57, 39, 46, 72, 48, 33, 17, 31, 75, 19, 41, 62, 68, 28, 51, 66, 30, 56, 34, 59, 71, 22, 49, 64, 38, 45, 36, 42, 53 Each Frequency used equally on the average by each transmitter

8.4 Frequency Hopping System

This transmitter device is frequency hopping device, and complies with FCC part 15.247 rule.

This device uses Bluetooth radio which operates in 2400-2483.5 MHz band. Bluetooth uses a radio technology called frequency-hopping spread spectrum, which chops up the data being sent and transmits chunks of it on up to 79 bands (1 MHz each; centred from 2402 to 2480 MHz) in the range 2,400-2,483.5 MHz. The transmitter switches hop frequencies 1,600 times per second to assure a high degree of data security. All Bluetooth devices participating in a given piconet are synchronized to the frequency-hopping channel for the piconet. The frequency hopping sequence is determined by the master's device address and the phase of the hopping sequence (the frequency to hop at a specific time) is determined by the master's internal clock. Therefore, all slaves in a piconet must know the master's device address and must synchronize their clocks with the master's clock.

Adaptive Frequency Hopping (AFH) was introduced in the Bluetooth specification to provide an effective way for a Bluetooth radio to counteract normal interference. AFH identifies "bad" channels, where either other wireless devices are interfering with the Bluetooth signal or the Bluetooth signal is interfering with another device. The AFH- enabled Bluetooth device will then communicate with other devices within its piconet to share details of any identified bad channels. The devices will then switch to alternative available "good" channels, away from the areas of interference, thus having no impact on the bandwidth used.



9 TEST REQUIREMENTS

9.1 20DB BANDWIDTH

9.1.1 Applicable Standard

According to FCC Part 15.247(a)(1) and DA 00-705

9.1.2 Conformance Limit

No limit requirement.

9.1.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

9.1.4 Test Procedure

The EUT was operating in BT mode and controlled its channel. Printed out the test result from the spectrum by hard copy function.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

- Set to the maximum power setting and enable the EUT transmit continuously
- Set RBW = 30 kHz.

Set the video bandwidth (VBW) =100kHz.

Set Span= approximately 2 to 3 times the 20 dB bandwidth

Set Detector = Peak.

Set Trace mode = max hold.

Set Sweep = auto couple.

The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize.Use the marker-to-peak function to set the marker to the peak of the emission. Use themarker-delta function to measure 20 dB down one side of the emission. Reset the markerdeltafunction, and move the marker to the other side of the emission, until it is (asclose as possible to) even with the reference marker level. The marker-delta reading atthis point is the 20 dB bandwidth of the emission.

If this value varies with differentmodes of operation (e.g., data rate, modulation format, etc.), repeat this test for eachvariation.

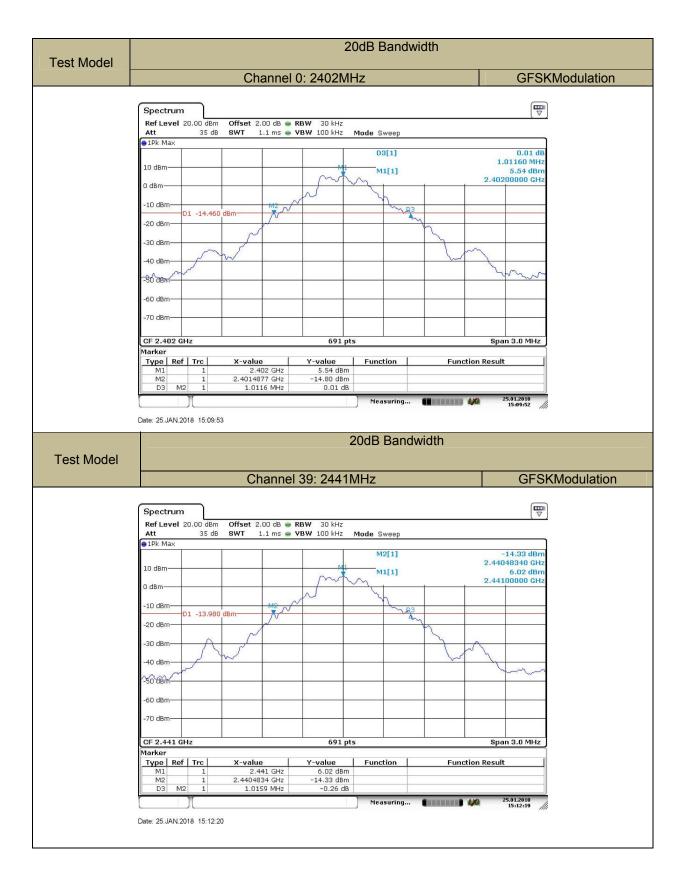
Measure and record the results in the test report.

Test Results

Temperature:	24 °C	Test By:	KK
Humidity:	53 %		

Modulation	Channel	Channel Frequency	20dB Bandwidth
Mode	Number	(MHz)	(kHz)
	00	2402	1011.6
GFSK	39	2441	1015.9
	78	2480	1015.9
	00	2402	1432.7
pi/4-DQPSK	39	2441	1463.1
-	78	2480	1467.4
	00	2402	1450.1
8DPSK	39	2441	1454.4
	78	2480	1458.8

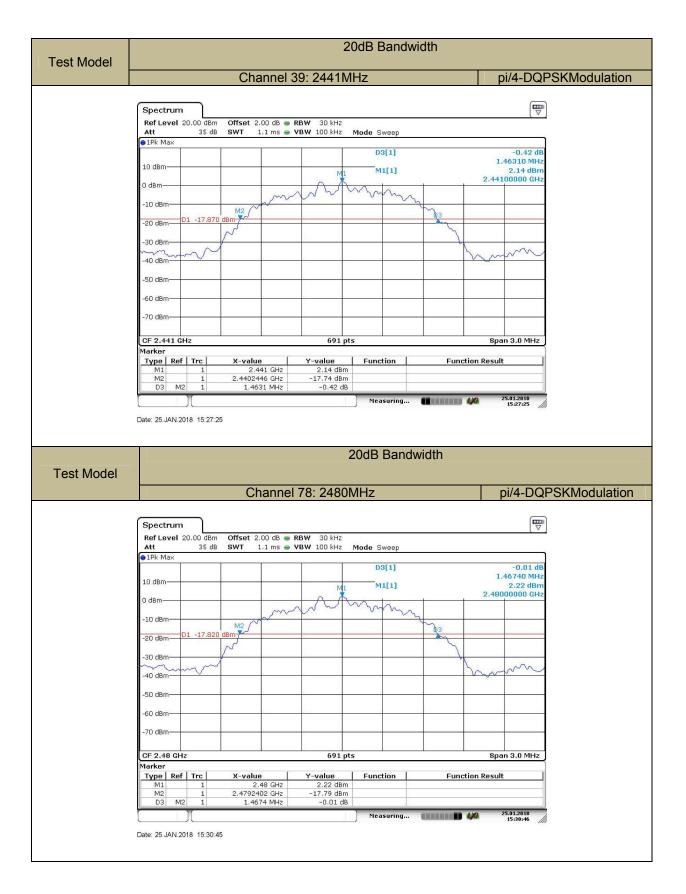




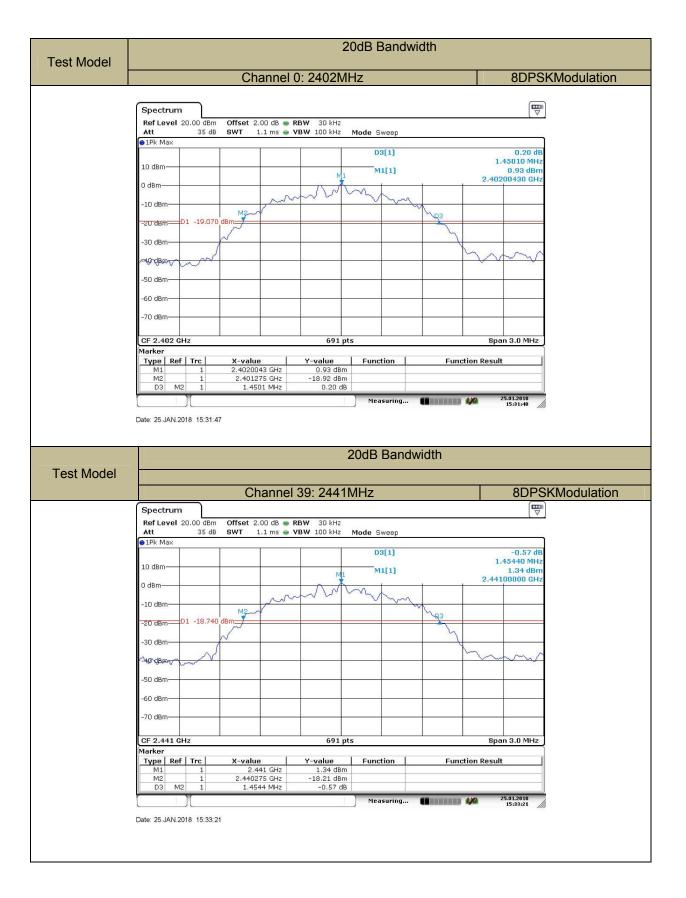


















9.2 CARRIER FREQUENCY SEPARATION

9.2.1 Applicable Standard

According to FCC Part 15.247(a)(1) and DA 00-705

9.2.2 Conformance Limit

Frequency hopping systems operating in the 2400-2483.5MHz band shall have hoppingchannel carrier frequencies separated by a minimum of 25kHz or the 20dB bandwidth of the hopping channel, whichever is greater.

In case of an output power less than 125mW, the frequency hopping system may have channels separated by a minimum of 25kHz ortwo-thirds of the 20dB bandwidth of the hopping channel, whichever is greater.

9.2.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

9.2.4 Test Procedure

■ According to FCC Part15.247(a)(1)

The EUT must have its hopping function enabled. Use the following spectrum analyzersettings: Set the RBW =100kHz. Set VBW =300kHz.

Set the span = wide enough to capture the peaks of two adjacent channels

Set Sweep time = auto couple.

Set Detector = peak. Set Trace mode = max hold.

Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section. Submit this plot.

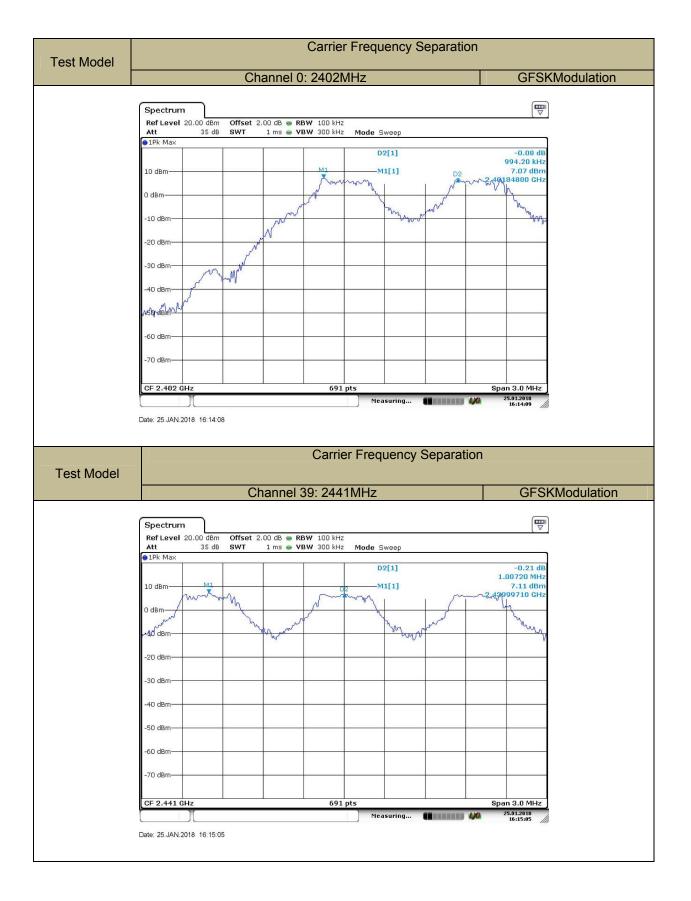
Test Results

Temperature:	24 °C	Test By:	KK
Humidity:	53 %	-	

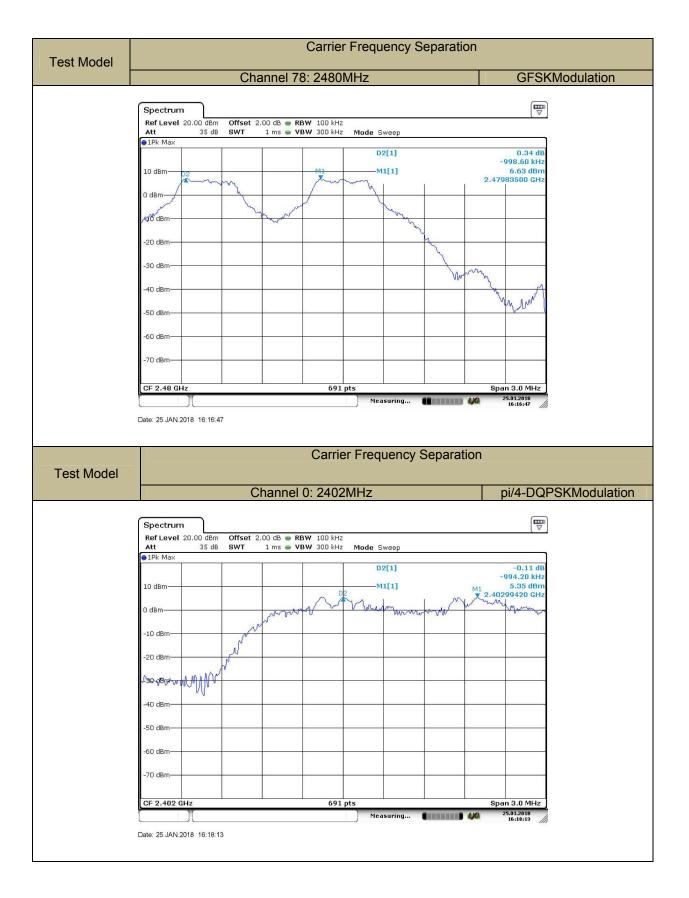
Modulation	Channel	Channel Frequency	Measurement Bandwidth	Limit	Verdict	
Mode	Number	(MHz)	(kHz)	(kHz)	verdict	
	0	2402	994.2	>674.40	PASS	
GFSK	39	2441	1007.2	>677.27	PASS	
	78	2480	998.6	>677.27	PASS	
	0	2402	994.2	>955.13	PASS	
pi/4-DQPSK	39	2441	998.6	>975.40	PASS	
-	78	2480	1002.9	>978.27	PASS	
	0	2402	998.6	>966.73	PASS	
8DPSK	39	2441	989.9	>969.60	PASS	
	78	2480	998.6	>972.53	PASS	
Note: pi/4-DQF	PSK, 8DPSI	K, GFSK Limit = 20dB	bandwidth * 2/3, if it is greate	er than 25kHz	z and the	

Note: pi/4-DQPSK, 8DPSK , GFSK Limit = 20dB bandwidth * 2/3, if it is greater than 25kHz and the output power is less than 125mW (21dBm)





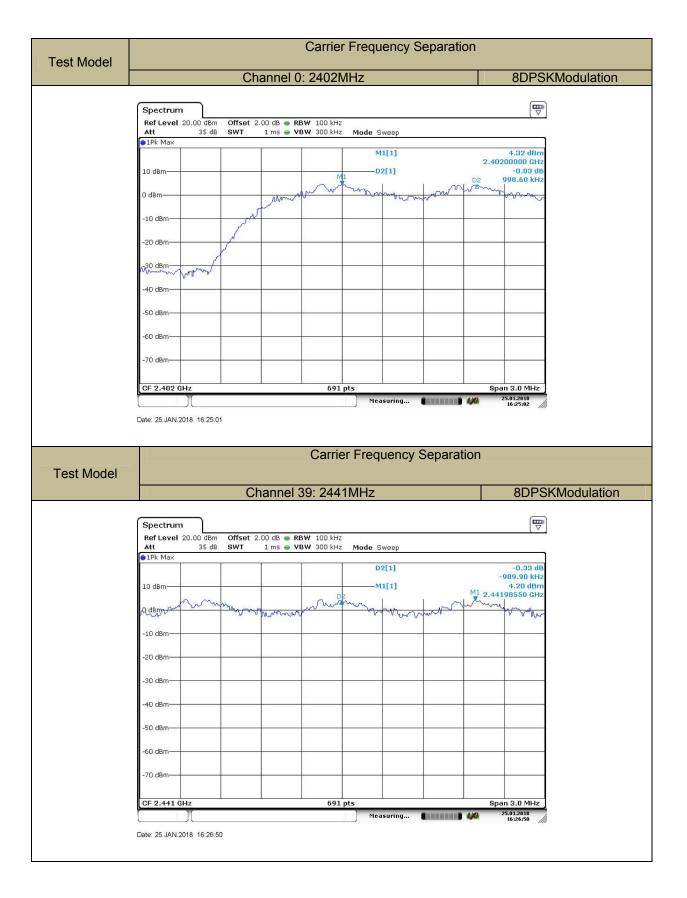




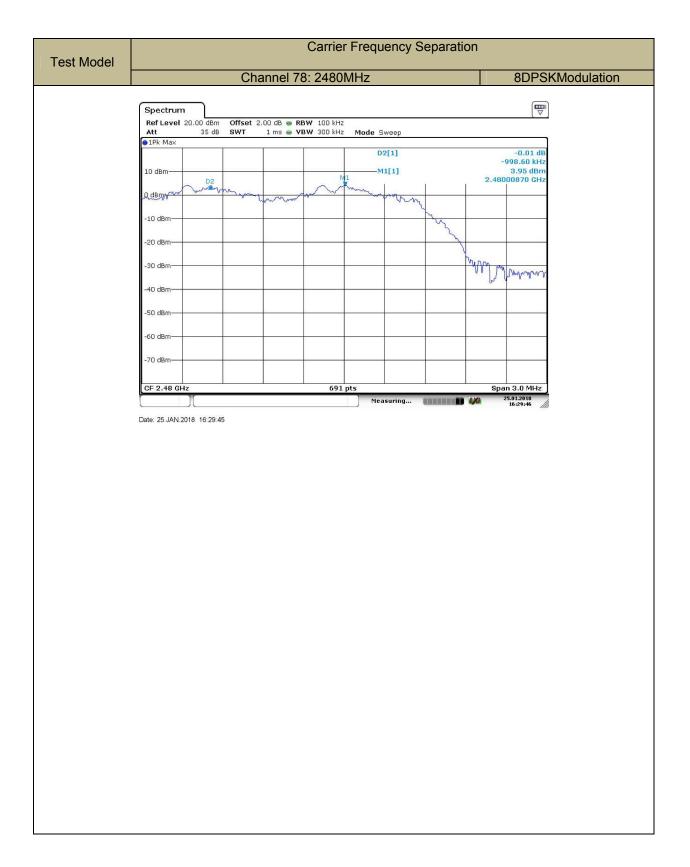














9.3 NUMBER OF HOPPING FREQUENCIES

9.3.1 Applicable Standard

According to FCC Part 15.247(a)(1) (iii)and DA 00-705

9.3.2 Conformance Limit

Frequency hopping systems operating in the 2400-2483.5MHz band shall use at least15 channels.

9.3.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

9.3.4 Test Procedure

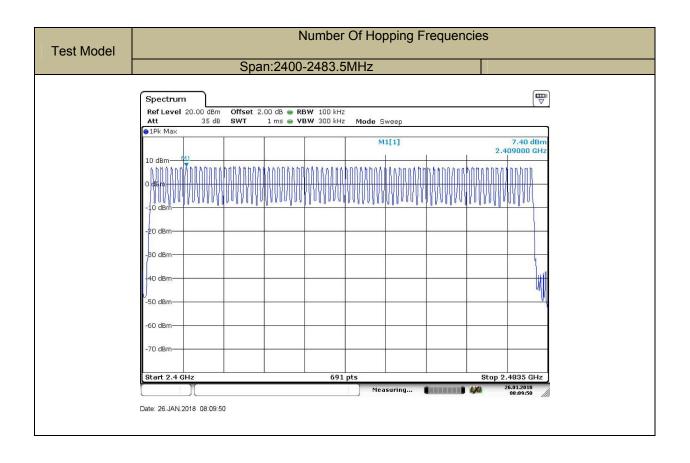
According to FCC Part15.247(a)(1)(iii)
 The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:
 Span = the frequency band of operation
 RBW = 100kHz
 VBW ≥ RBW
 Sweep = auto
 Detector function = peak
 Trace = max hold
 Allow the trace to stabilize. It may prove necessary to break the span up to sections, inorder to clearly show all of the hopping frequencies.

Test Results

Temperature:	24 ℃	Test By:	KK
Humidity:	53 %		

Hopping Channel Frequency Range	Quantity of Hopping Channel	Quantity of Hopping Channel limit			
2402-2480	79	>15			
Note: Both EDR & EDR mode has been evaluated, and the worst result recorded was report.					







9.4 AVERAGE TIME OF OCCUPANCY (DWELL TIME)

9.4.1 Applicable Standard

According to FCC Part 15.247(a)(1)(iii) and DA 00-705

9.4.2 Conformance Limit

For frequency hopping systems operating in the 2400-2483.5MHz band, the averagetime of occupancy on any channel shall not be greater than 0.4s within a period of 0.4smultiplied by the number of hopping channels employed.

9.4.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

9.4.4 Test Procedure

According to FCC Part15.247(a)(1)(iii)

The EUT must have its hopping function enabled. Use the following spectrum analyzersettings:

Span = zero span, centered on a hopping channel

RBW = 1 MHz

 $VBW \ge RBW$

Sweep = as necessary to capture the entire dwell time per hopping channel

Detector function = peak

Trace = max hold

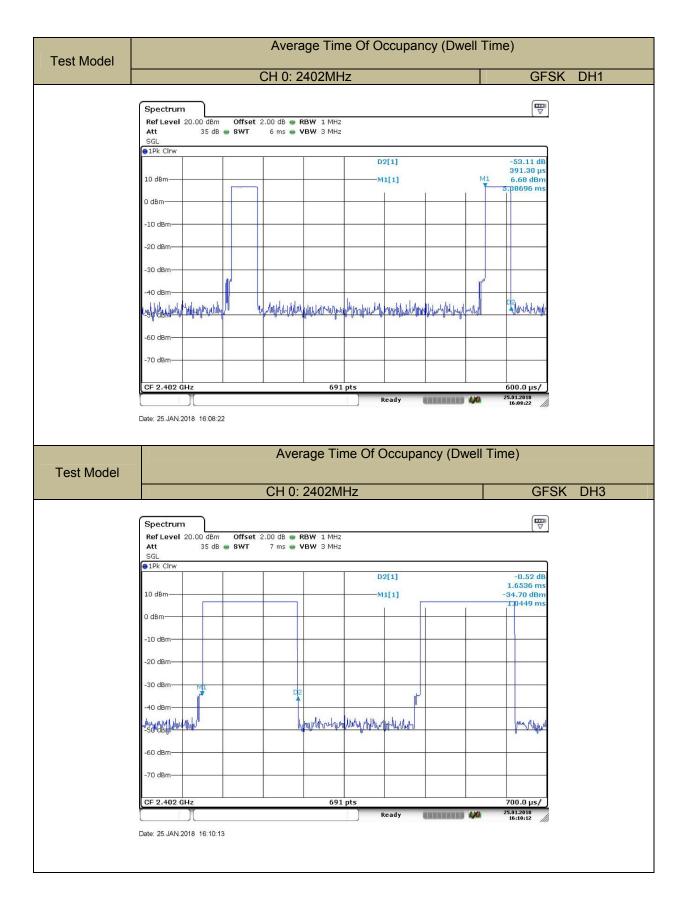
If possible, use the marker-delta function to determine the dwell time. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphsof this Section.

9.4.5 Test Results

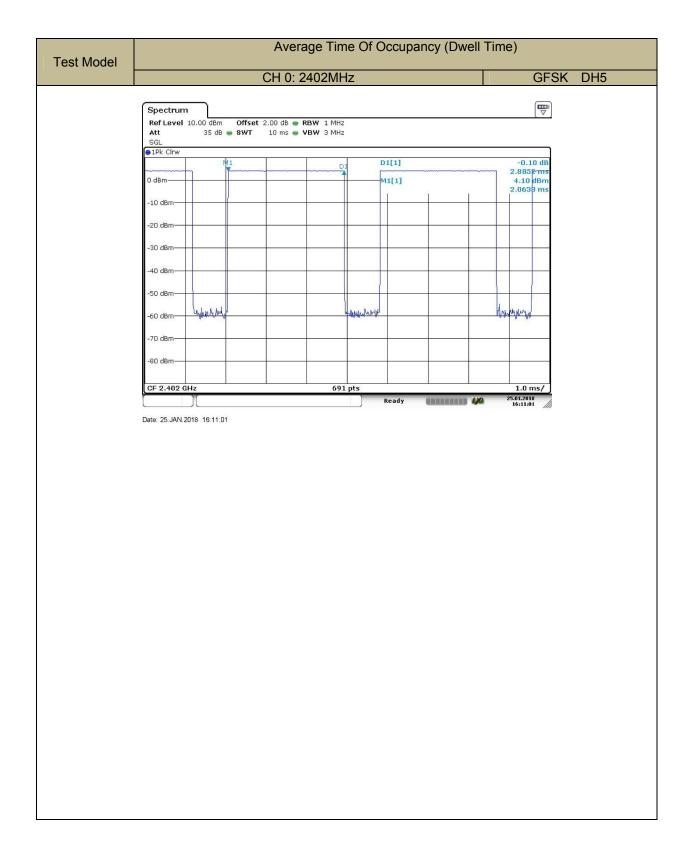
Temperature:	24 °C	Test By:	KK
Humidity:	53 %		

Modulation	Channel	Packet	Pluse width	DwellTime	Limit	Verdict	
Mode	Number	type	(ms)	(ms)	(ms)	Veruici	
	0	DH1	0.391	125.1	<400	PASS	
GFSK	0	DH3	1.654	264.6	<400	PASS	
	0	DH5	2.885	307.7	<400	PASS	
Note1: DwellTi	me(DH1)=F	?W*(1600/2/	79)*31.6				
DwellT	ime(DH3)=	PW*(1600/4	/79)*31.6				
DwellTime(DH5)=PW*(1600/6/79)*31.6							
Note2: Bluetooth (GFSK, pi/4-DQPSK, 8DPSK) mode have been tested, and the worst results							
has been recorded on the follow page.							
		1 3					











9.5 MAXIMUM PEAK CONDUCTED OUTPUT POWER

9.5.1 Applicable Standard

According to FCC Part 15.247(b)(1) and DA 00-705

9.5.2 Conformance Limit

The max For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

9.5.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

9.5.4 Test Procedure

According to FCC Part15.247(b)(1)

As an alternative to a peak power measurement, compliance with the limit can be based on a measurement of the maximum conducted output power.

Use the following spectrum analyzer settings:

Set Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel(about 10MHz) Set RBW > the 20 dB bandwidth of the emission being measured(about 3MHz)

- Set VBW \geq RBW
- Set Sweep = auto

Set Detector function = peak

Set Trace = max hold

Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emissionto determine the peak amplitude level.

Test Results

Temperature:	24 ℃	Test By:	KK
Humidity:	53 %	-	

Operation Mode	Channel Number	Channel Frequency (MHz)	Measurement Level (dBm)	Limit (dBm)	Verdict
Mode	0	2402	6.74	21	PASS
GFSK	39	2441	7.09	21	PASS
	78	2480	7.07	21	PASS
	0	2402	6.54	21	PASS
pi/4-DQPSK	39	2441	6.93	21	PASS
•	78	2480	6.95	21	PASS
	0	2402	5.93	21	PASS
8DPSK	39	2441	6.34	21	PASS
	78	2480	6.50	21	PASS
Note:N/A					









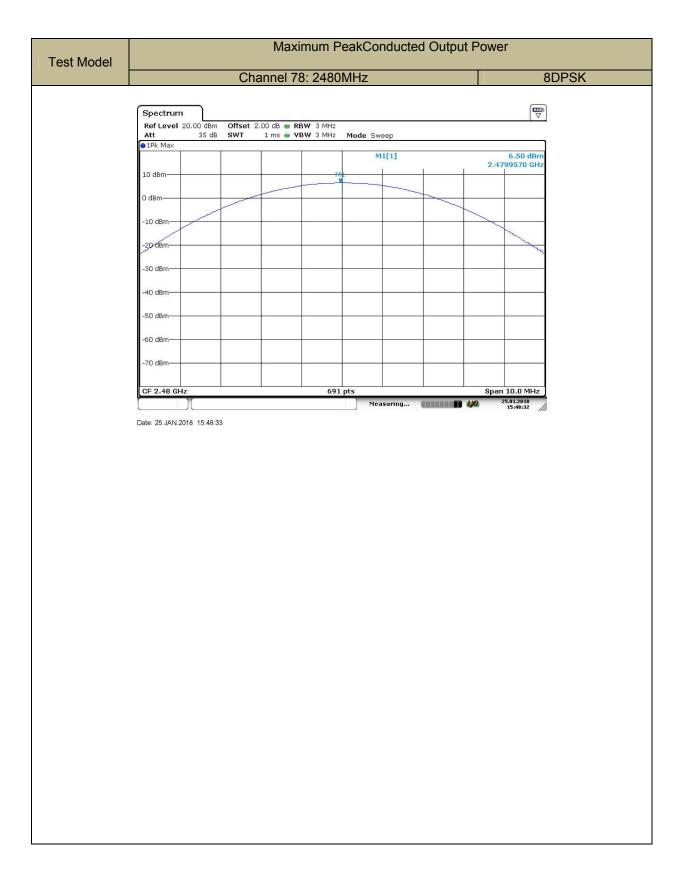














9.6 CONDUCTED SUPRIOUS EMISSION

9.6.1 Applicable Standard

According to FCC Part 15.247(d) and DA 00-705

9.6.2 Conformance Limit

According to FCC Part 15.247(d):

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, provided the transmitter demonstrates compliance with the peak conducted power limits.

9.6.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

9.6.4 Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer

Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DSS channel center frequency.

Set Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel.

Set the RBW = 100 kHz. Set the VBW \ge 3 x RBW.

Set Detector = peak. Set Sweep time = auto couple.

Set Trace mode = max hold. Allow trace to fully stabilize.

Use the peak marker function to determine the maximum Maximum conduceted level.

Note that the channel found to contain the maximum conduceted level can be used to establish the reference level.

Band-edge Compliance of RF Conducted Emissions

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the emission operating on the channel closest to the band-edge, as well as any modulation products which fall outside of the authorized band of operation Set RBW \geq 1% of the span=100kHzSet VBW \geq RBW

Set Sweep = autoSetDetector function = peakSetTrace = max hold

Allow the trace to stabilize. Set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. The marker-delta value now displayed must comply with the limit specified in this Section.

Now, using the same instrument settings, enable the hopping function of the EUT. Allow the trace to stabilize. Follow the same procedure listed above to determine if any spurious emissions caused by the hopping function also comply with the specified limit.

■ ConducetedSpurious RF Conducted Emission

Use the following spectrum analyzer settings:

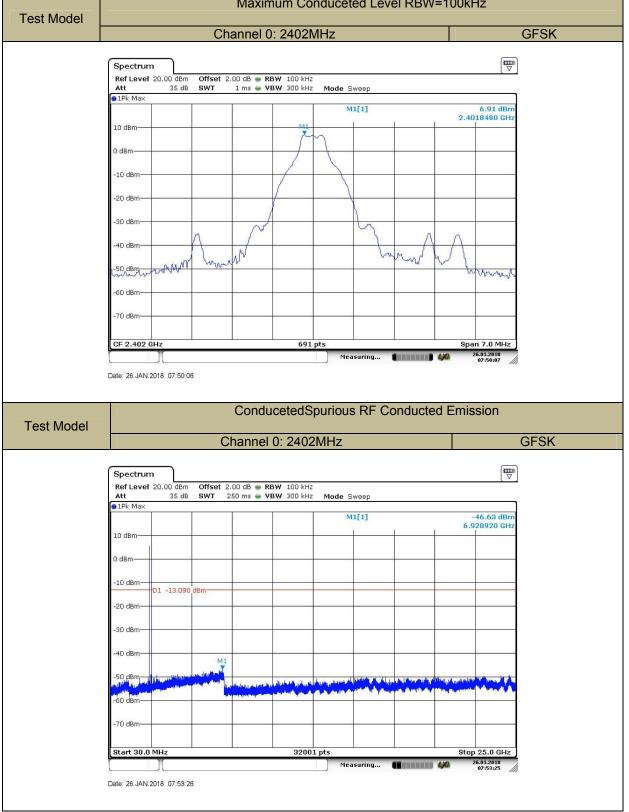
Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic.(30MHz to 25GHz).Set RBW = 100 kHzSetVBW \geq RBW

Set Sweep = autoSetDetector function = peakSetTrace = max hold

Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded. The level displayed must comply with the limit specified in this Section.

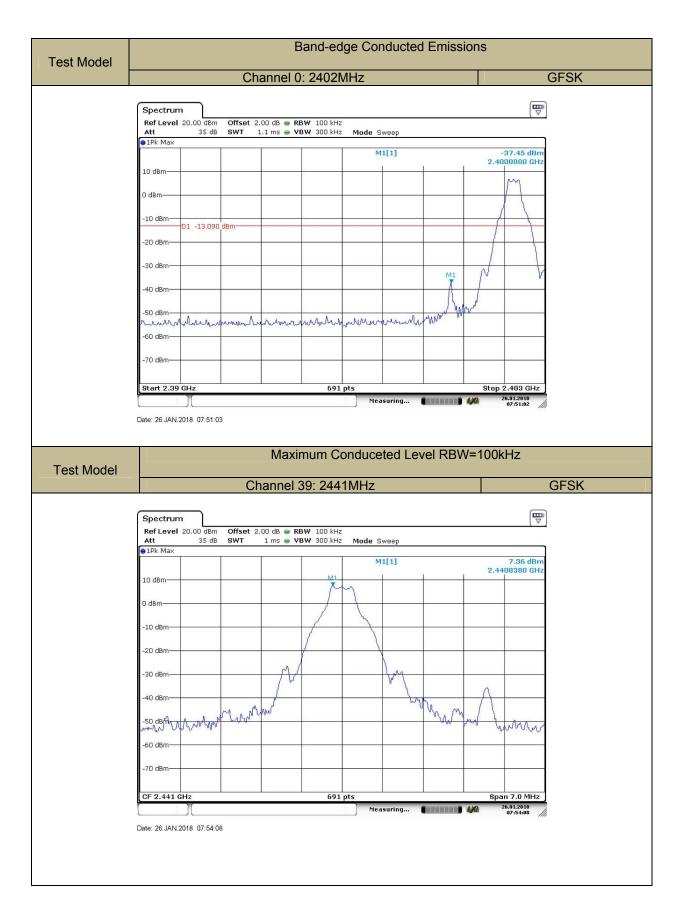
9.6.5 Test Results



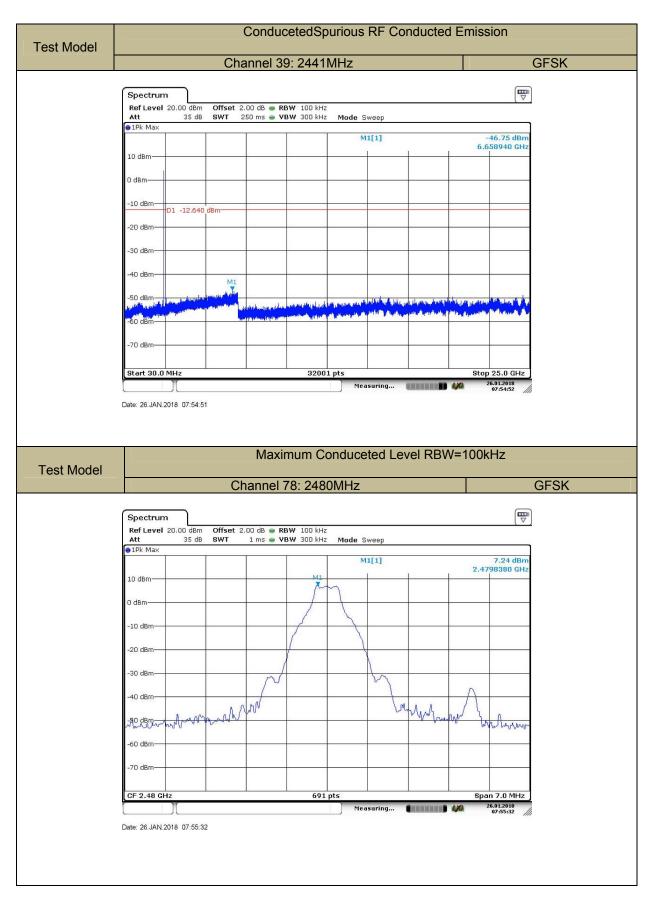


Bluetooth (GFSK, pi/4-DQPSK, 8DPSK) mode have been tested, and the worst result(GFSK)was report as below: Maximum Conduceted Level RBW=100kHz

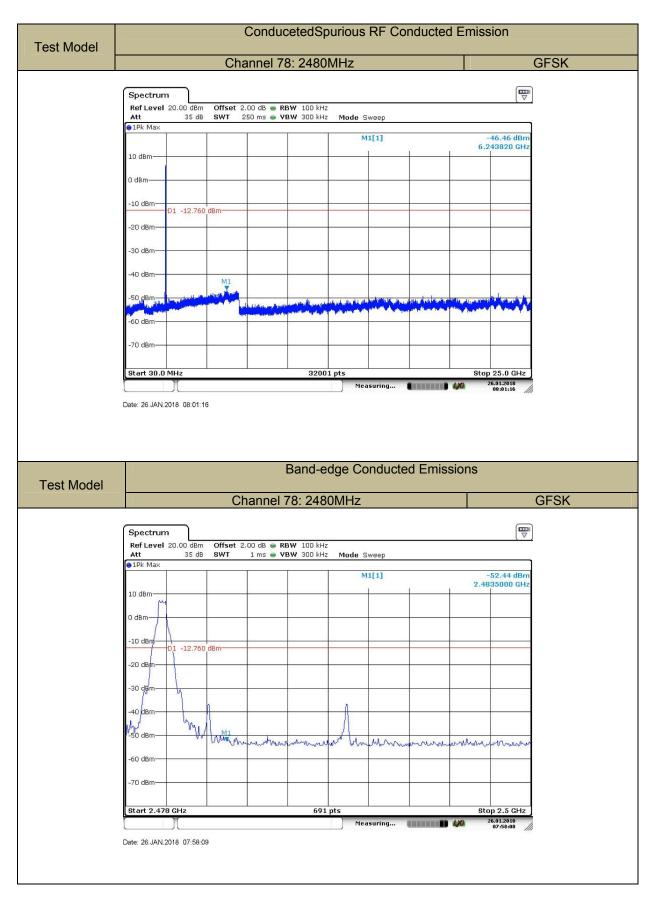




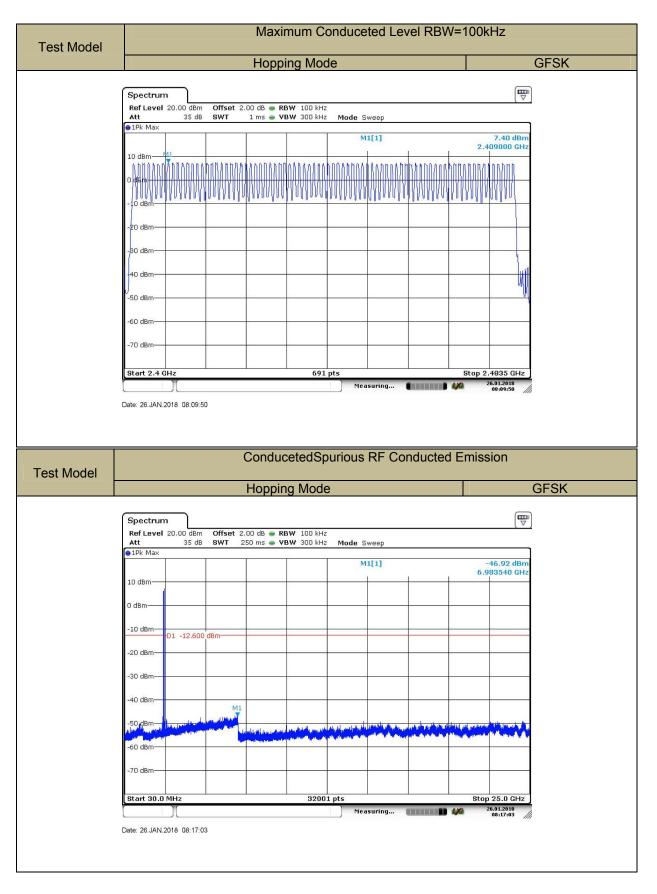




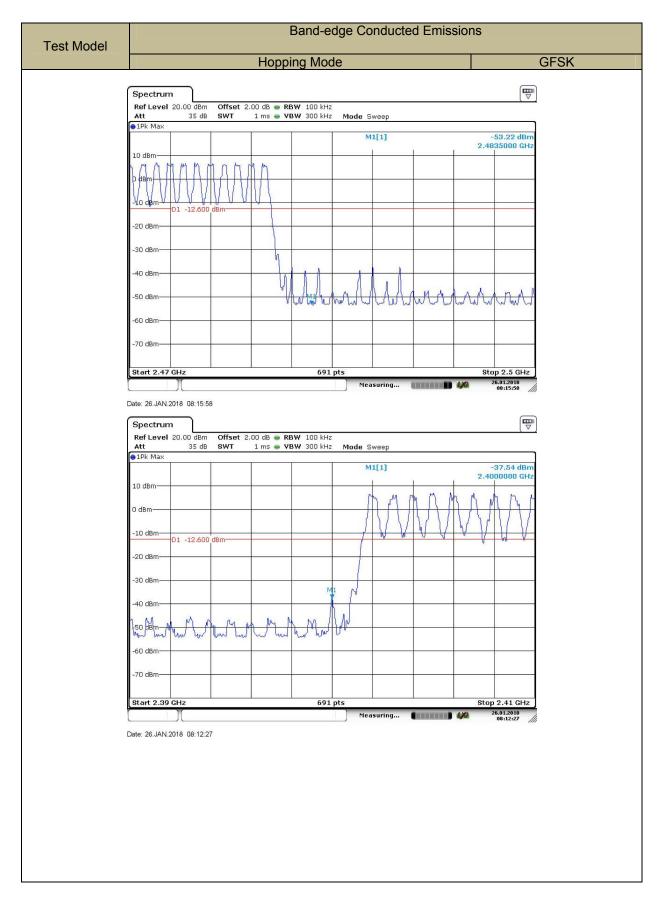














9.7 RADIATED SPURIOUS EMISSION

9.7.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and DA 00-705

9.7.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). According to FCC Part15.205, Restricted bands

According to 1 00 1 art 15.205, restricted bands									
MHz	MHz	MHz	GHz						
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15						
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46						
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75						
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5						
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2						
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5						
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7						
6.26775-6.26825	123-138	2200-2300	14.47-14.5						
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2						
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4						
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12						
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0						
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8						
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5						
12.57675-12.57725	322-335.4	3600-4400	(2)						
13.36-13.41									

According to FCC Part15.205, the level of any transmitter spurious emission in Restricted bands shall not exceed the level of the emission specified in the following table

Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	2400/F(KHz)	20 log (uV/m)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

9.7.3 Test Configuration

Test according to clause 7.2 radio frequency test setup 2

9.7.4 Test Procedure

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \ge 1$ GHz(1GHz to 25GHz), 100 kHz for f < 1 GHz(30MHz to 1GHz)

 $\mathsf{VBW} \geq \mathsf{RBW}$

Sweep = auto

Detector function = peak



Trace = max hold

Follow the guidelines in ANSI C63.10-2013 respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data. Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from 20log(dwell time/100 ms), in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Repeat above procedures until all frequency measured was complete.

9.7.5 Test Results

■ Spurious Emission below 30MHz(9KHz to 30MHz)

Temperature:	24 °C	Test Date:	April 10, 2018
Humidity:	53 %	Test By:	KK
Test mode:	TX Mode	-	

Freq.	Ant.Pol.	Emis Level(d	ssion BuV/m)	Limit 3m(dBuV/m)		Over(dB)	
(IVIHZ)	(MHz) H/V		ÁÝ	PK	AV	PK	AV

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor

Spurious Emission Above 1GHz(1GHz to 25GHz)

Bluetooth (GFSK, pi/4-DQPSK, 8DPSK) mode have been tested, and the worst result(GFSK)was report as below:

Temperature:	24 ℃	Test Date:	April 10, 2018
Humidity:	53 %	Test By:	KK
Test mode:	GFSK	Frequency:	Channel 0: 2402MHz

Freq.	Ant.Pol.	Emission Level(dBuV/m) PK AV PK AV		Limit 3m((dBuV/m)	Over(dB)		
(MHz)	H/V			AV	PK	AV		
4804.00	V	43.38	32.50	74.00	54.00	-30.62	-21.50	
7206.00	V	46.44 35.41		74.00	54.00	-27.56	-18.59	
8829.13	V	48.72	28.05	74.00	54.00	-25.28	-25.95	
4804.00	Н	42.50	32.34	74.00	54.00	-31.50	-21.66	
7206.00	Н	46.91	36.56	74.00	54.00	-27.09	-17.44	
8530.78	Н	48.85	37.52	74.00	54.00	-25.15	-16.48	

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Temperature Humidity: Test mode:	:: 24°C 53 % GFS	, D	Test D Test B Freque	y:	April 10 KK Channe		2018 39: 2441MHz		
Freq.	Ant.Pol.		ission dBuV/m)	Limit 3r	n(dBuV/m)	Ov	er(dB)		
(MHz)	H/V	PK	AV	PK	AV	PK	AV		
4882.00	V	42.96	32.42	74.00	54.00	-31.04	-21.58		
7323.00	V	45.04	35.12	74.00	54.00	-28.96	-18.88		
9503.31	V	47.50	37.61	74.00	54.00	-26.50	-16.39		
4882.00	Н	42.59	32.10	74.00	54.00	-31.41	-21.90		
7323.00	Н	46.94	36.87	74.00	54.00	-27.06	-17.13		
9703.34	Н	48.85	37.60	74.00	54.00	-25.15	-16.40		
Temperature Humidity: Test mode:			Test D Test B Freque	y:	April 10, 2018 KK Channel 78: 2480MHz				
Freq.	Ant.Pol.	Emis Level(d		Limit 3m((dBuV/m)	Ove	er(dB)		
(MHz)	H/V	PK È	ÁÝ	PK	AV	PK	AV		
4960.00	V	43.41	33.74	74.00	54.00	-30.59	-20.26		
7440.00	V	46.58	36.62	74.00	54.00	-27.42	-17.38		
8243.77	V	48.07	38.93	74.00	54.00	-25.93	-15.07		
4960.00	Н	43.23	34.18	74.00	54.00	-30.77	-19.82		
7440.00	Н	46.74	36.99	74.00	54.00	-27.26	-17.01		

Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).

39.24

49.36

 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

74.00

54.00

-24.64

-14.76

8546.27

Н



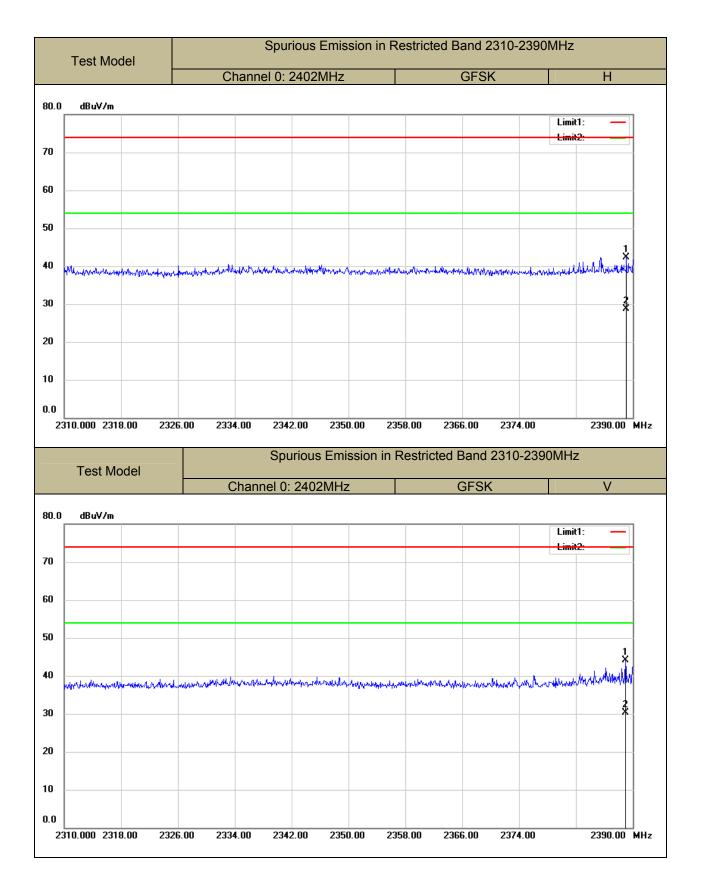
■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz Bluetooth (GFSK, pi/4-DQPSK, 8DPSK, Hopping) mode have been tested, and the worst result(GFSK, Hopping) was report as below:

Temperature: Humidity: Test mode:	24℃ 53 % GFSK	Tes	st Date: st By: equency:	April 10, 2018 KK Channel 0: 2402MHz					
Frequency (MHz)	Polarity H/V	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	Over(dB)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)	Over(dB)		
2389.12	Н	42.40	74.00	-31.60	28.69	54.00	-25.31		
2388.96	V	44.14	74.00	-29.86	30.26	54.00	-23.74		
Temperature: Humidity: Test mode:	24℃ 53 % GFSK	Test By: KK			10, 2018 nel 78: 2480MHz				
Frequency (MHz)	Polarity H/V	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	Over(dB)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)	Over(dB)		
2483.55	Н	51.82	74.00	-22.18	38.63	54.00	-15.37		
2483.51	V	52.95	74.00	-21.05	39.46	54.00	-14.54		
Temperature: Humidity: Test mode:	24℃ 53 % GFSK	Tes	st Date: st By: equency:	April 1 KK Hoppi	0, 2018 ng				
Frequency (MHz)	Polarity H/V	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	Over(dB)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)	Over(dB)		
2387.90	Н	40.05	74.00	-33.95	26.94	54.00	-27.06		
2388.26	V	40.08	74.00	-33.92	26.98	54.00	-27.02		
2483.50	Н	43.93	74.00	-30.07	29.43	54.00	-24.57		
2483.50	V	45.92	74.00	-28.08	30.76	54.00	-23.24		

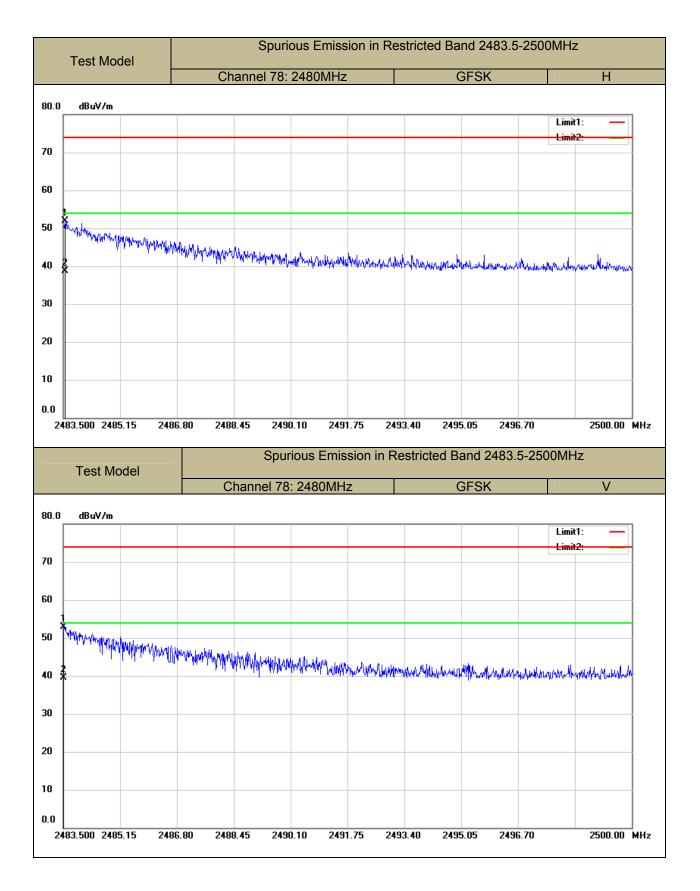
Note: (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=10Hz).

(2) Emission Level= Reading Level+Probe Factor +Cable Loss.
(3) Data of measurement within this frequency range shown " -- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

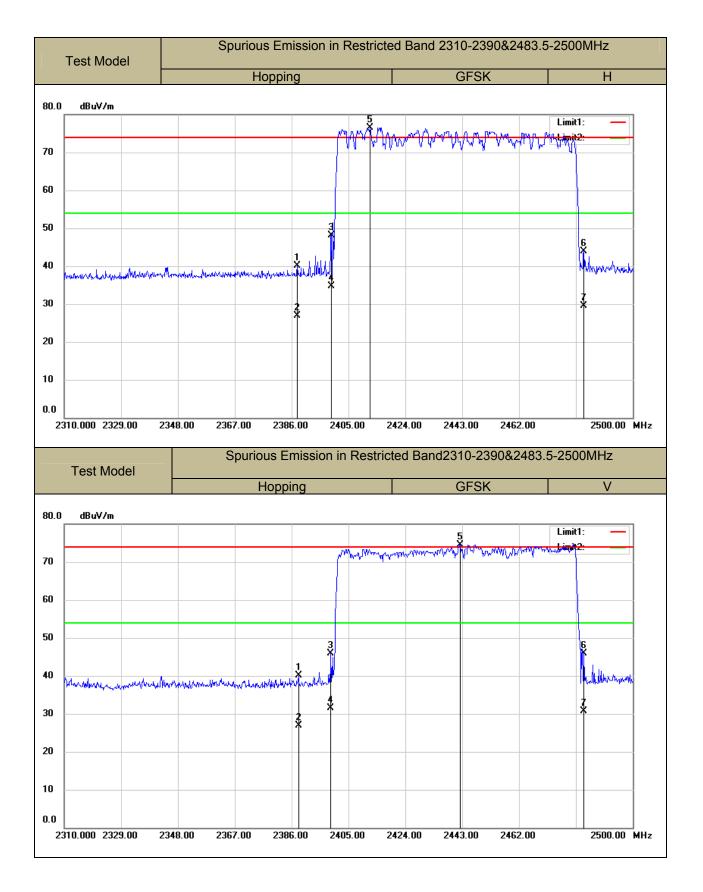




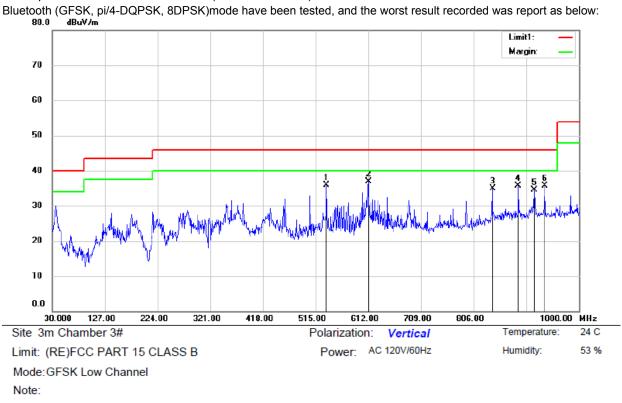










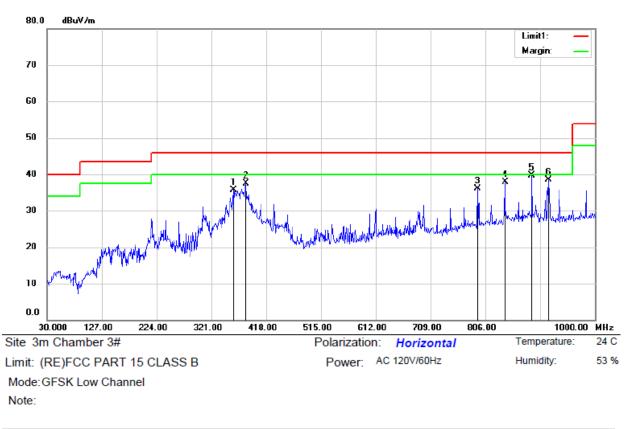


 Spurious Emission below 1GHz(30MHz to 1GHz)
Bluetooth (GFSK, pi/4-DQPSK, 8DPSK)mode have been tested, and the worst result recorded was report as below:
80.0 dBuV/m

No.	Mł	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		535.3700	42.58	-6.74	35.84	46.00	-10.16	QP			
2	*	612.0000	41.61	-4.77	36.84	46.00	-9.16	QP			
3		840.9200	36.26	-1.40	34.86	46.00	-11.14	QP			
4		888.4500	36.51	-0.71	35.80	46.00	-10.20	QP			
5		917.5500	34.33	0.10	34.43	46.00	-11.57	QP			
6		936.9500	35.23	0.45	35.68	46.00	-10.32	QP			

*:Maximum data x:Over limit I:over margin

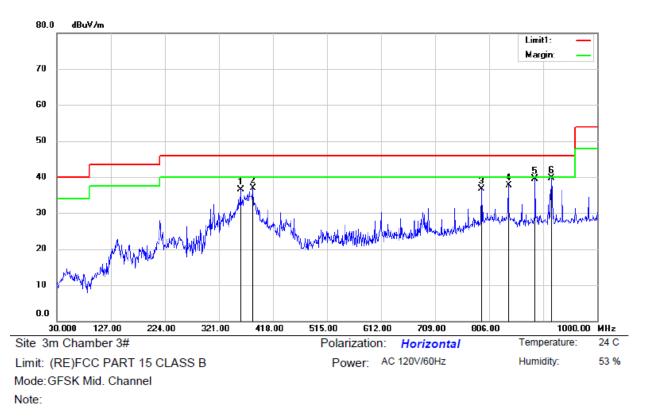




No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		359.8000	46.40	-10.64	35.76	46.00	-10.24	QP			
2		382.1100	47.48	-9.92	37.56	46.00	-8.44	QP			
3		792.4200	38.21	-2.09	36.12	46.00	-9.88	QP			
4		840.9200	39.23	-1.40	37.83	46.00	-8.17	QP			
5	*	888.4500	40.45	-0.71	39.74	46.00	-6.26	QP			
6		917.5500	38.40	0.10	38.50	46.00	-7.50	QP			

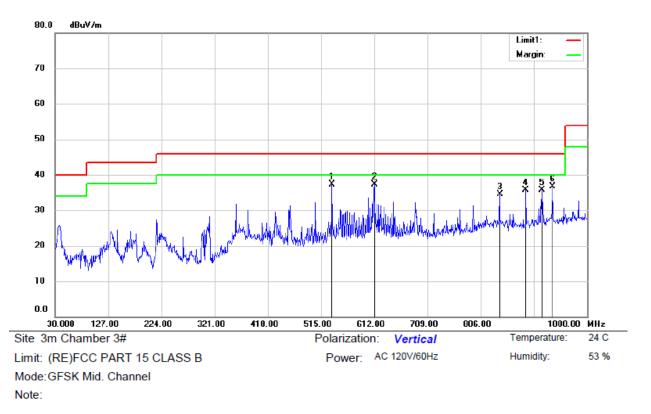
*:Maximum data x:Over limit 1:over margin





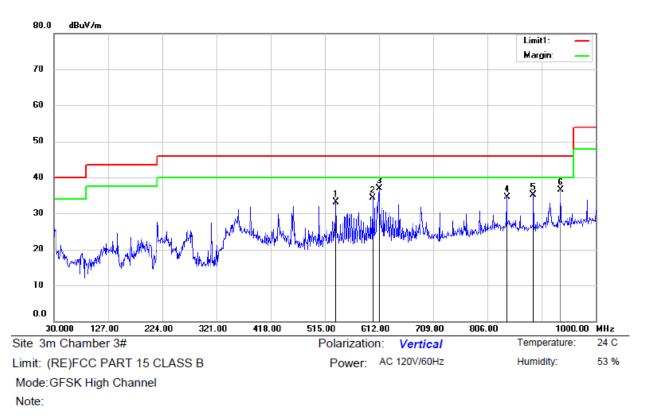
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		359.8000	47.20	-10.64	36.56	46.00	-9.44	QP			
2		382.1100	46.77	-9.92	36.85	46.00	-9.15	QP			
3		792.4200	38.86	-2.09	36.77	46.00	-9.23	QP			
4		840.9200	39.13	-1.40	37.73	46.00	-8.27	QP			
5		888.4500	40.12	-0.71	39.41	46.00	-6.59	QP			
6	*	917.5500	39.54	0.10	39.64	46.00	-6.36	QP			





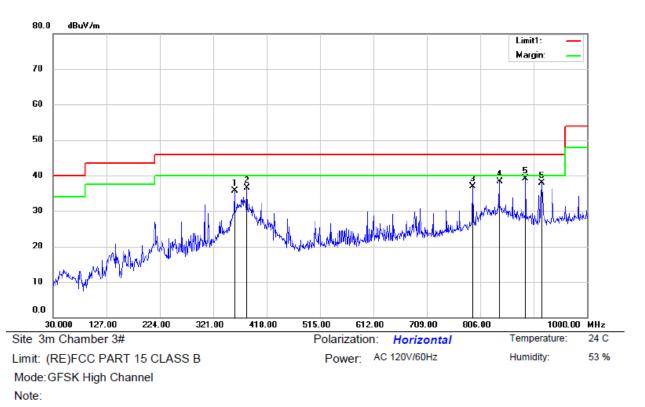
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		535.3700	43.99	-6.74	37.25	46.00	-8.75	QP			
2	*	612.0000	42.05	-4.77	37.28	46.00	-8.72	QP			
3		840.9200	35.82	-1.40	34.42	46.00	-11.58	QP			
4		888.4500	36.34	-0.71	35.63	46.00	-10.37	QP			
5		917.5500	35.56	0.10	35.66	46.00	-10.34	QP			
6		936.9500	36.16	0.45	36.61	46.00	-9.39	QP			





No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		535.3700	39.81	-6.74	33.07	46.00	-12.93	QP			
2		600.3600	39.26	-4.98	34.28	46.00	-11.72	QP			
3	*	612.0000	41.61	-4.77	36.84	46.00	-9.16	QP			
4		840.9200	35.93	-1.40	34.53	46.00	-11.47	QP			
5		888.4500	35.75	-0.71	35.04	46.00	-10.96	QP			
6		936.9500	36.00	0.45	36.45	46.00	-9.55	QP			





No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		359.8000	46.40	-10.64	35.76	46.00	-10.24	QP			
2		382.1100	46.50	-9.92	36.58	46.00	-9.42	QP			
3		792.4200	38.96	-2.09	36.87	46.00	-9.13	QP			
4		840.9200	39.67	-1.40	38.27	46.00	-7.73	QP			
5	*	888.4500	39.76	-0.71	39.05	46.00	-6.95	QP			
6		917.5500	37.73	0.10	37.83	46.00	-8.17	QP			

*:Maximum data x:Over limit !:over margin



9.8 CONDUCTED EMISSION TEST

9.8.1 Applicable Standard

According to FCC Part 15.207(a)

9.8.2 Conformance Limit

	Conducted Emission Limit	
Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

9.8.3 Test Configuration

Test according to clause 7.3 conducted emission test setup

9.8.4 Test Procedure

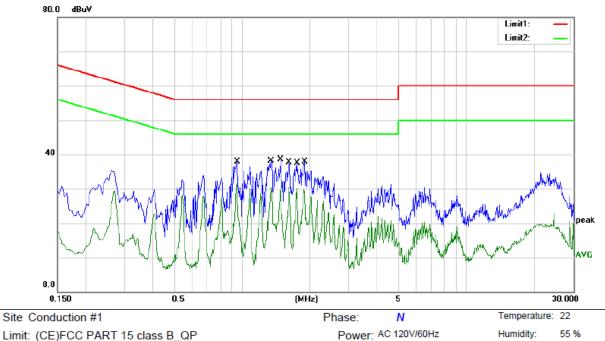
The EUT was placed on a table which is 0.8m above ground plane. Maximum procedure was performed on the highest emissions to ensure EUT compliance. Repeat above procedures until all frequency measured were complete.

9.8.5 Test Results

The 120V &240V voltage have been tested, and the worst result recorded was report as below:

Ver.1.0





Limit: (CE)FCC PART 15 class B_QP Mode: GFSK Low Channel Note:

1	MHz	dBuV						
1	0.0500		dB	dBuV	dBuV	dB	Detector	Comment
	0.9500	37.97	0.00	37.97	56.00	-18.03	QP	
2 *	0.9500	31.45	0.00	31.45	46.00	-14.55	AVG	
3	1.3500	38.14	0.00	38.14	56.00	-17.86	QP	
4	1.3500	30.41	0.00	30.41	46.00	-15.59	AVG	
5	1.4900	38.57	0.00	38.57	56.00	-17.43	QP	
6	1.4900	30.89	0.00	30.89	46.00	-15.11	AVG	
7	1.6260	37.62	0.00	37.62	56.00	-18.38	QP	
8	1.6260	30.50	0.00	30.50	46.00	-15.50	AVG	
9	1.7540	37.49	0.00	37.49	56.00	-18.51	QP	
10	1.7540	30.09	0.00	30.09	46.00	-15.91	AVG	
11	1.8980	37.92	0.00	37.92	56.00	-18.08	QP	
12	1.8980	29.72	0.00	29.72	46.00	-16.28	AVG	

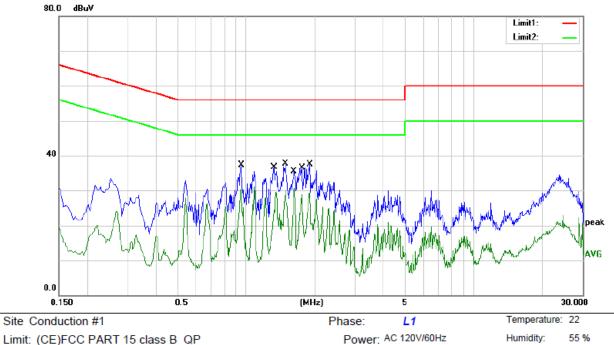
*:Maximum data x:Over limit

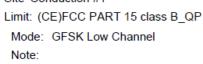
I:over margin

Comment: Factor build in receiver.

Operator: CSL







No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.9500	37.24	0.00	37.24	56.00	-18.76	QP	
2	0.9500	30.43	0.00	30.43	46.00	-15.57	AVG	
3	1.3260	36.73	0.00	36.73	56.00	-19.27	QP	
4	1.3260	29.45	0.00	29.45	46.00	-16.55	AVG	
5	1.4940	37.73	0.00	37.73	56.00	-18.27	QP	
6	1.4940	29.88	0.00	29.88	46.00	-16.12	AVG	
7	1.6260	35.58	0.00	35.58	56.00	-20.42	QP	
8 *	1.6260	30.66	0.00	30.66	46.00	-15.34	AVG	
9	1.7580	36.40	0.00	36.40	56.00	-19.60	QP	
10	1.7580	28.89	0.00	28.89	46.00	-17.11	AVG	
11	1.8980	37.54	0.00	37.54	56.00	-18.46	QP	
12	1.8980	28.93	0.00	28.93	46.00	-17.07	AVG	

*:Maximum data x:Over limit

Lover margin

Comment: Factor build in receiver.

Operator: CSL



9.9 ANTENNA APPLICATION

9.9.1 Antenna Requirement

Standard	Requirement
FCC CRF Part15.203	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 shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217,§15.219, or §15.221. Further, this requirement does not apply to intentionalradiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

For intentional device, according to FCC 47 CFR Section 15.203, 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

9.9.2 Result

The EUT'S antenna is FPC antenna. The antenna's gain is 2.77 dBi, and the antenna can't be replaced by the userwhich in accordance to section 15.203, please refer to the photos.