

FCC/IC BT REPORT

FCC/IC Certification

Applicant Name:

LG Electronics MobileComm U.S.A., Inc

Address:

1000 SYLVAN AVENUE ENGLEWOOD CLIFFS, NJ
07632

Date of Issue:

March 04, 2016

Test Site/Location:

HCT CO., LTD., 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA

Report No.: HCT-R-1602-F030-1

HCT FRN: 0005866421

IC Recognition No.: 5944A-5

FCC ID:

ZNFBHBS770

IC:

2703C-HBS770

APPLICANT:

LG Electronics MobileComm U.S.A., Inc.

FCC/IC Model(s):

HBS-770

EUT Type:

Bluetooth Wireless Stereo Headset

Max. RF Output Power:

4.365 dBm (2.732mW)

Frequency Range:

2402 MHz - 2480 MHz (Bluetooth)

Modulation type

GFSK(Normal), $\pi/4$ DQPSK and 8DPSK(EDR)

FCC Classification:

FCC Part 15 Spread Spectrum Transmitter

FCC Rule Part(s):

Part 15 subpart C 15.247

IC Rule Part(s):

RSS-247 Issue 1 (May 2015) , RSS-GEN Issue 4(November 2014)

The measurements shown in this report were made in accordance with the procedures specified in §2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998, 21 U.S.C. 853(a)



Report prepared by

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Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-R-1602-F030	February 24, 2016	- First Approval Report
HCT-R-1602-F030-1	March 04, 2016	- Revised standard(ANSI C63.5) in Section 4

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1. GENERAL INFORMATION

Applicant: LG Electronics MobileComm U.S.A.,Inc.
Address: 1000 SYLVAN AVENUE ENGLEWOOD CLIFFS, NJ 07632
FCC ID: ZNFBHBS770
IC: 2703C-HBS770
EUT Type: Bluetooth Wireless Stereo Headset
FCC/IC Model name(s): HBS-770
Date(s) of Tests: February 3, 2016 ~ February 19, 2015
Place of Tests: HCT Co., Ltd.
74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea
(IC Recognition No. : 5944A-5)

2. EUT DESCRIPTION

FCC/IC Model Name	HBS-770
EUT Type	Bluetooth Wireless Stereo Headset
Power Supply	DC 3.7 V
Frequency Range	2402 MHz - 2480 MHz (Bluetooth)
Transmit Power	4.365 dBm (2.732 mW)
BT Operating Mode	Normal, EDR, AFH
Modulation Type	GFSK(Normal), $\pi/4$ DQPSK and 8DPSK(EDR)
Modulation Technique	FHSS
Number of Channels	79Channels, Minimum 20 Channels(AFH)
Antenna Specification	Manufacturer: PLATEL Antenna type: Internal ANTENNA Peak Gain : 3.20 dBi

※ 15.247 / RSS-247 Requirements for Bluetooth transmitter

- This Bluetooth module has been tested by a Bluetooth Qualification Lab, and we confirm the following:
 - 1) This system is hopping pseudo-randomly.
 - 2) Each frequency is used equally on the average by each transmitter.
 - 3) The receiver input bandwidths that match the hopping channel bandwidths of their corresponding transmitters
 - 4) The receiver shifts frequencies in synchronization with the transmitted signals.
- The system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this Section 15.247 should the transmitter be presented with a continuous data (or information) stream.
- 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.

3. TEST METHODOLOGY

The measurement procedure described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2013) is used in the measurement of the **LG Electronics MobileComm U.S.A., Inc. Bluetooth Wireless Stereo Headset FCC ID: ZNFBHBS770, IC: 2703C-HBS770**

3.1 EUT CONFIGURATION

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

3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C / the RSS-GEN issue 4, RSS-247 issue 1.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2 of ANSI C63.10. (Version :2013) Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane below 1GHz. Above 1GHz with 1.5m using absorbers between the EUT and receive antenna. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3 m away from the receiving antenna, which varied from 1 m to 4 m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes according to the requirements in Section 8 of ANSI C63.10. (Version: 2013). To record the final measurements, the analyzer detector function was set to CISPR quasi-peak mode and the bandwidth of the spectrum analyzer was set to 120 kHz for frequencies below 1 GHz or 1 MHz for frequencies above 1 GHz. For average measurements above 1 GHz, the analyzer was set to peak detector with a reduced VBW setting(RBW = 1 MHz, VBW = 1/T Hz, where T = Pulse width).

Conducted Antenna Terminal

See Section from 7.8.2 to 7.8.8.(ANSI 63.10-2013)

3.4 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Channel low, mid and high with highest data rate (worst case) is chosen for full testing.

4. INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipments, which is traceable to recognized national standards.

All equipments(spectrum, antenna, accessory, etc.) for measurement is calibrated in accordance with the requirements of ANSI C63.5(Version: 2006).

5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

The SAC(Semi-Anechoic Chamber) and conducted measurement facility used to collect the radiated data are located at the 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Korea. The site is constructed in conformance with the requirements of ANSI C63.4. (Version :2014) and CISPR Publication 22. Detailed description of test facility was submitted to the Commission and accepted dated July 07, 2015 (Registration Number: 90661)

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements. Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers. Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

6. ANTENNA REQUIREMENTS

According to FCC 47 CFR §15.203 / RSS-GEN(Issue 4) Section 8.3:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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 antennas of this E.U.T are permanently attached.

*The E.U.T Complies with the requirement of §15.203 / RSS-GEN

7. SUMMARY OF TEST RESULTS

7.1 FCC Part

Test Description	FCC Part Section(s)	Test Limit	Test Condition	Test Result
20 dB Bandwidth	§15.247(a)(1)(ii) or (iii)	N/A	CONDUCTED	PASS
Occupied Bandwidth	N/A	N/A		N/A
Conducted Maximum Peak Output Power	§15.247(b)(1)	< 1 W if ≥ 75 non-overlapping hopping channels used < 0.125 W if < 75 non-overlapping hopping channels used		PASS
Carrier Frequency Separation	§15.247(a)(1)	>25 kHz or >2/3 of the 20dB BW		PASS
Number of Hopping Frequencies	§15.247(a)(1)(iii)	≥ 15		PASS
Time of Occupancy	§15.247(a)(1)(iii)	<400 ms		PASS
Conducted Spurious Emissions	§15.247(d)	> 20 dB for all out-of band emissions		PASS
Band Edge(Out of Band Emissions)	§15.247(d)	> 20 dB for all out-of band emissions		PASS
AC Power line Conducted Emissions	§15.207(a)	cf. Section 8.7		PASS
Radiated Spurious Emissions	§15.247(d), 15.205, 15.209	cf. Section 8.6.2	RADIATED	PASS
Radiated Restricted Band Edge	§15.247(d), 15.205, 15.209	cf. Section 8.6.3		PASS

7.2 IC Part

Test Description	IC Part Section(s)	Test Limit	Test Condition	Test Result
20 dB Bandwidth	RSS-247, 5.1.1	NA	CONDUCTED	PASS
99 % Bandwidth	RSS-GEN, 6.6	NA		PASS
Conducted Maximum Peak Output Power	RSS-247, 5.4.2	< 1 W if the hopset uses 75 or more hopping channels < 0.125 W if the hopset uses less than 75 hopping channels		PASS
Carrier Frequency Separation	RSS-247, 5.1.2	> 25 kHz or > 2/3 of the 20dB BW		PASS
Number of Hopping Frequencies	RSS-247, 5.1.4	≥ 15		PASS
Time of Occupancy	RSS-247, 5.1.4	< 0.4 s		PASS
Conducted Spurious Emissions	RSS-247, 5.5	< 20 dB for all out-of band emissions		PASS
Band Edge(Out of Band Emissions)	RSS-247, 5.5	< 20 dB for all out-of band emissions		PASS
AC Power line Conducted Emissions	RSS-GEN, 8.8	RSS-GEN section 8.8 table 3		PASS
Radiated Spurious Emissions	RSS-GEN, 8.9	RSS-GEN section 8.9 table 4, 5	RADIATED	PASS
Radiated Restricted Band Edge	RSS-GEN, 8.10	RSS-GEN section 8.10 table 6		PASS
Receiver Spurious Emissions	RSS-GEN, 5 RSS-GEN, 7.1.2	RSS-GEN section 7.1.2 table 2		PASS

8. TEST RESULT

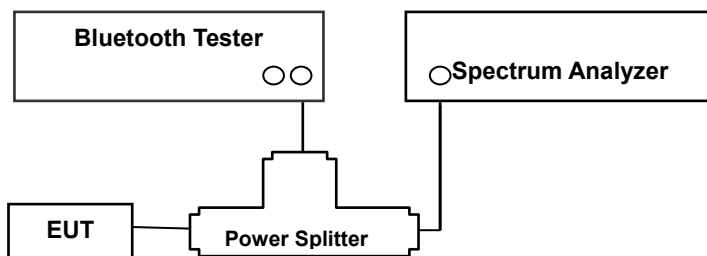
8.1 PEAK POWER

LIMIT

The maximum peak output power of the intentional radiator shall not exceed the following:

1. For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 W. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 W.
2. The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi.

Test Configuration



TEST PROCEDURE

The transmitter output is connected to the Spectrum Analyzer. The Spectrum Analyzer is set to the peak detector mode. This test is performed with hopping off.

The Spectrum Analyzer is set to (7.8.5 in ANSI 63.10-2013)

- 1) Span: approximately 5 times the 20 dB bandwidth, centered on a hopping channel
- 2) RBW > the 20 dB bandwidth of the emission being measured
- 3) VBW ≥ RBW
- 4) Sweep = Auto
- 5) Detector = Peak
- 6) Trace = Max hold

SAMPLE CALCULATION

$$\begin{aligned}\text{Output Power} &= \text{Spectrum Reading Power} + \text{Power Splitter loss} + \text{Cable loss}(2 \text{ ea}) \\ &= 10 \text{ dBm} + 6 \text{ dB} + 1.5 \text{ dB} = 17.5 \text{ dBm}\end{aligned}$$

Note :

1. Spectrum reading values are not plot data. The power results in plot is already including the actual values of loss for the splitter and cable combination.
2. Spectrum offset = Power Splitter loss + Cable loss

3. We apply to the offset in the 2.4 GHz range that was rounded off to the closest tenth dB. Actual value of loss for the splitter and cable combination is 7.36 dB at 2402 MHz and is 7.44 dB at 2480 MHz.

So, 7.4 dB is offset. And the offset gap in the 2.4 GHz range do not affect the conducted peak power final result

TEST RESULTS

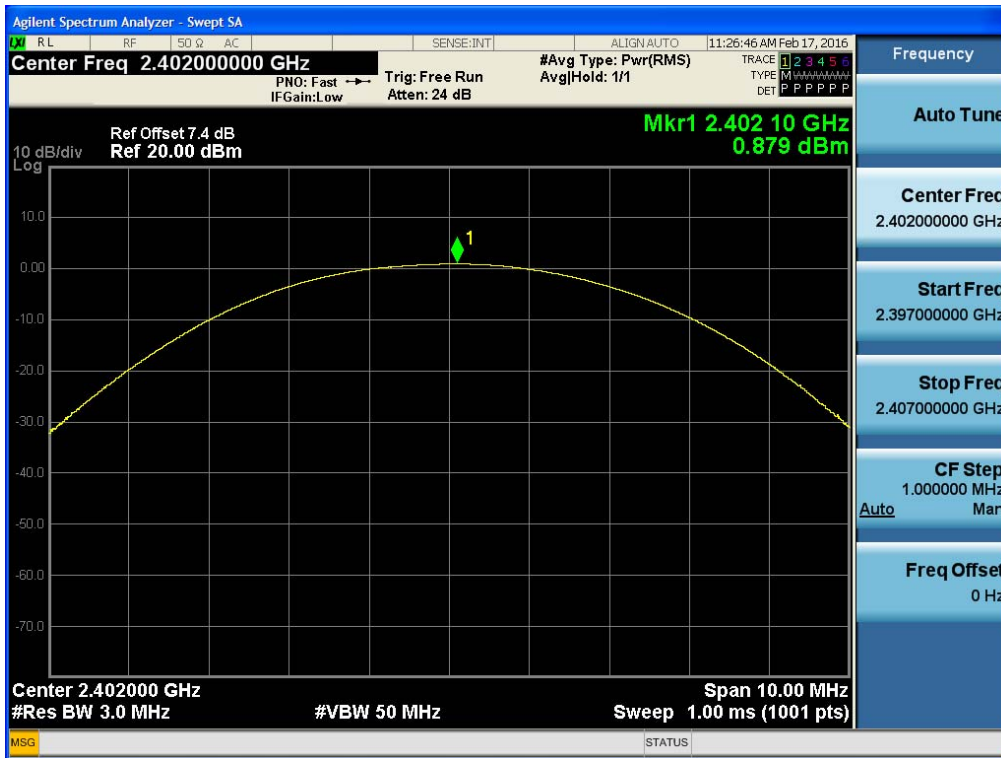
No non-compliance noted

Test Data

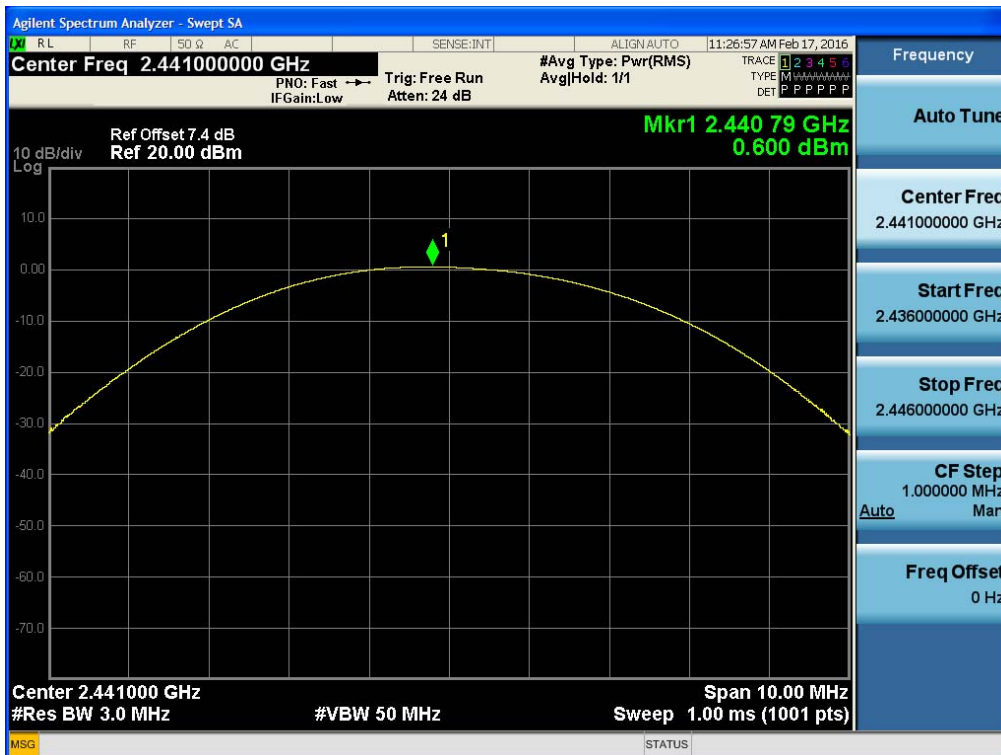
Channel	Frequency (MHz)	Output Power (GFSK)		Limit (mW)	Result
		(dBm)	(mW)		
Low	2402	0.879	1.224	125	PASS
Mid	2441	0.600	1.148		PASS
High	2480	0.763	1.192		PASS

Channel	Frequency (MHz)	Output Power (8DPSK)		Output Power ($\pi/4$ DQPSK)		Limit (mW)	Result
		(dBm)	(mW)	(dBm)	(mW)		
Low	2402	4.052	2.542	3.624	2.304	125	PASS
Mid	2441	3.954	2.485	3.508	2.243		PASS
High	2480	4.365	2.732	3.921	2.467		PASS

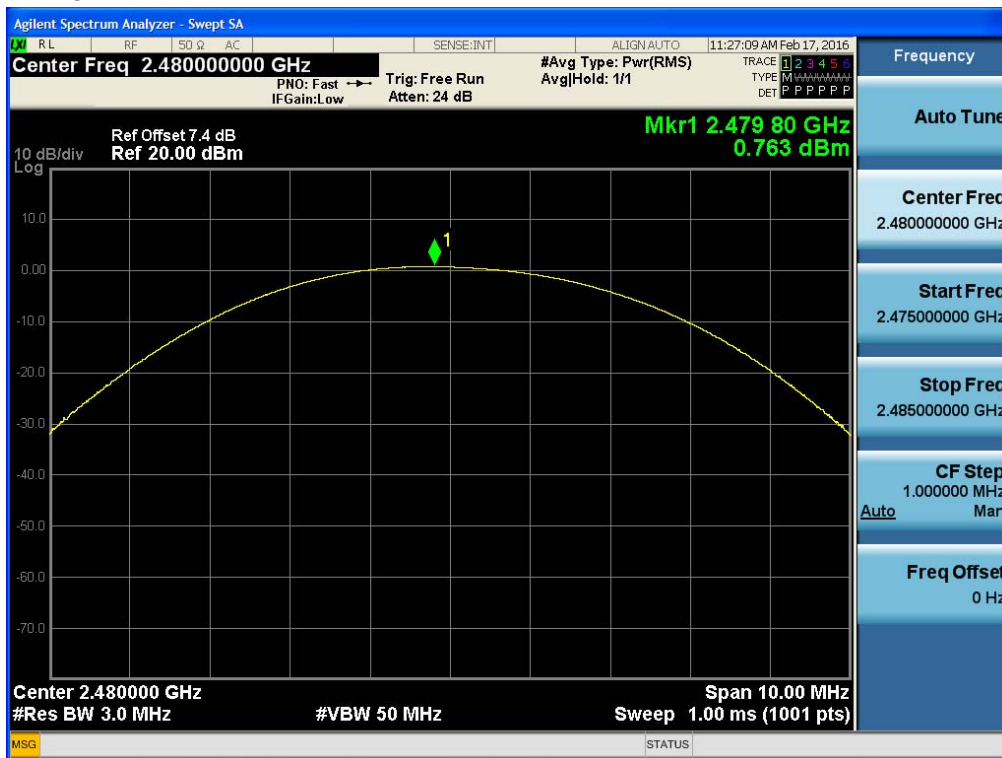
Test Plots (GFSK)
Peak Power (Low-CH)



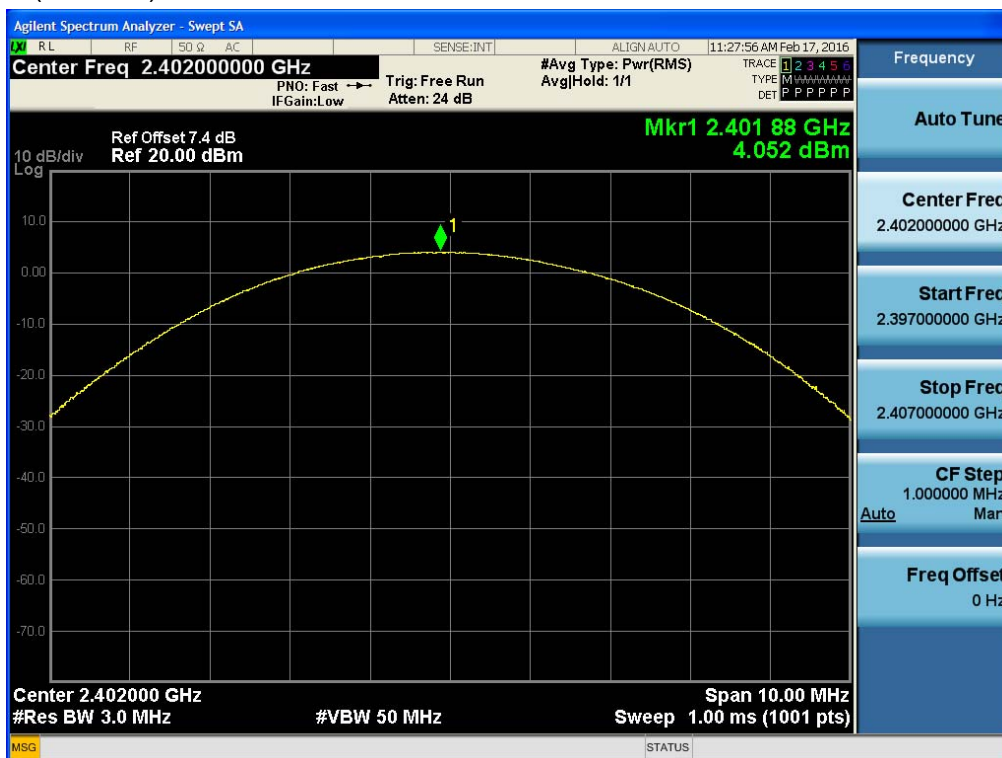
Test Plots (GFSK)
Peak Power (Mid-CH)



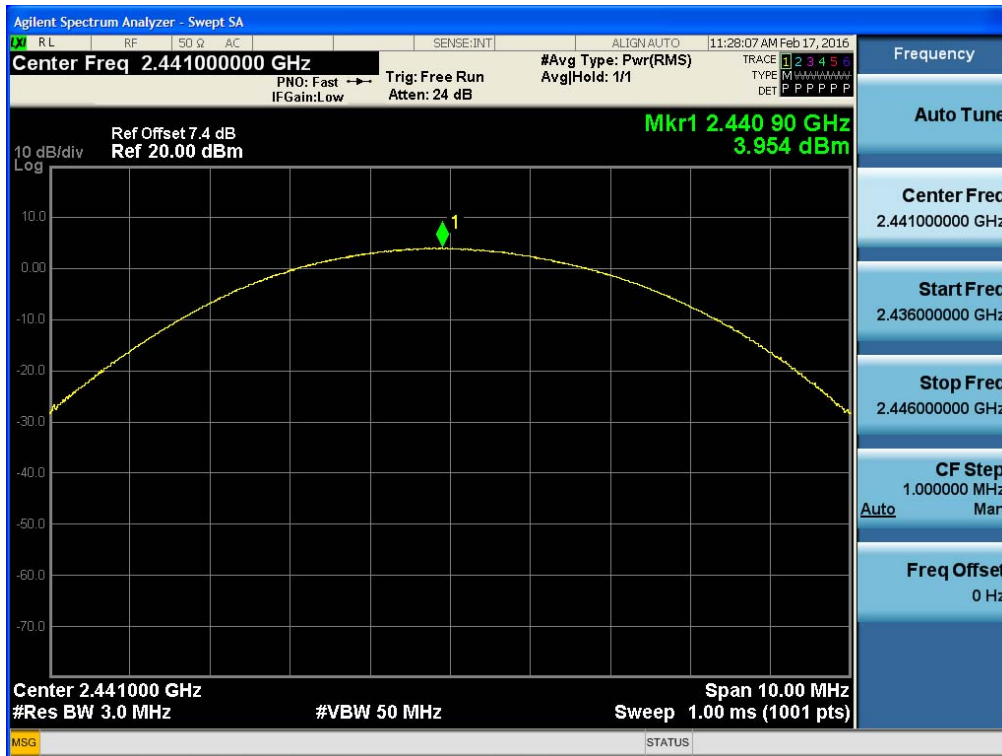
Test Plots (GFSK)
Peak Power (High-CH)



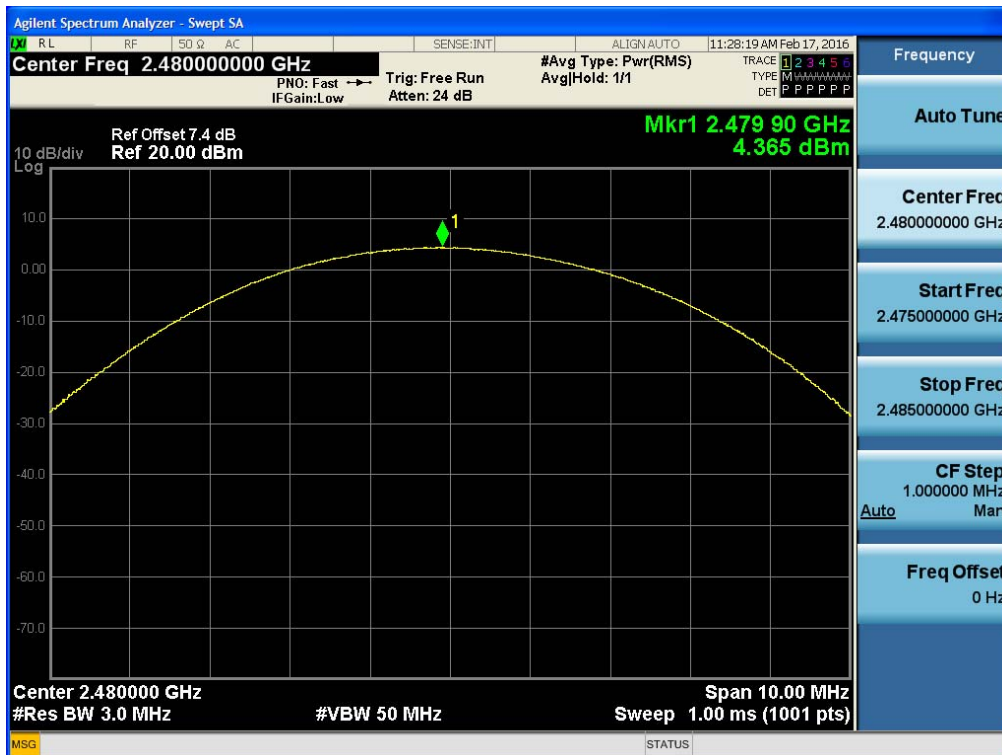
Test Plots (8DPSK)
Peak Power (Low-CH)



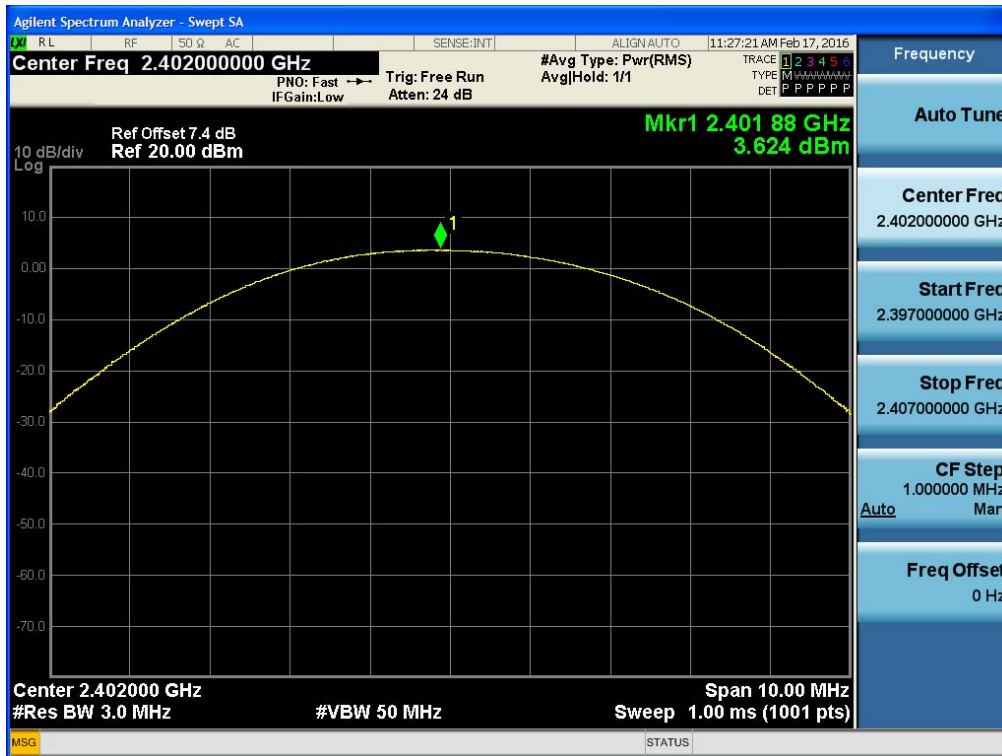
Test Plots (8DPSK)
Peak Power (Mid-CH)



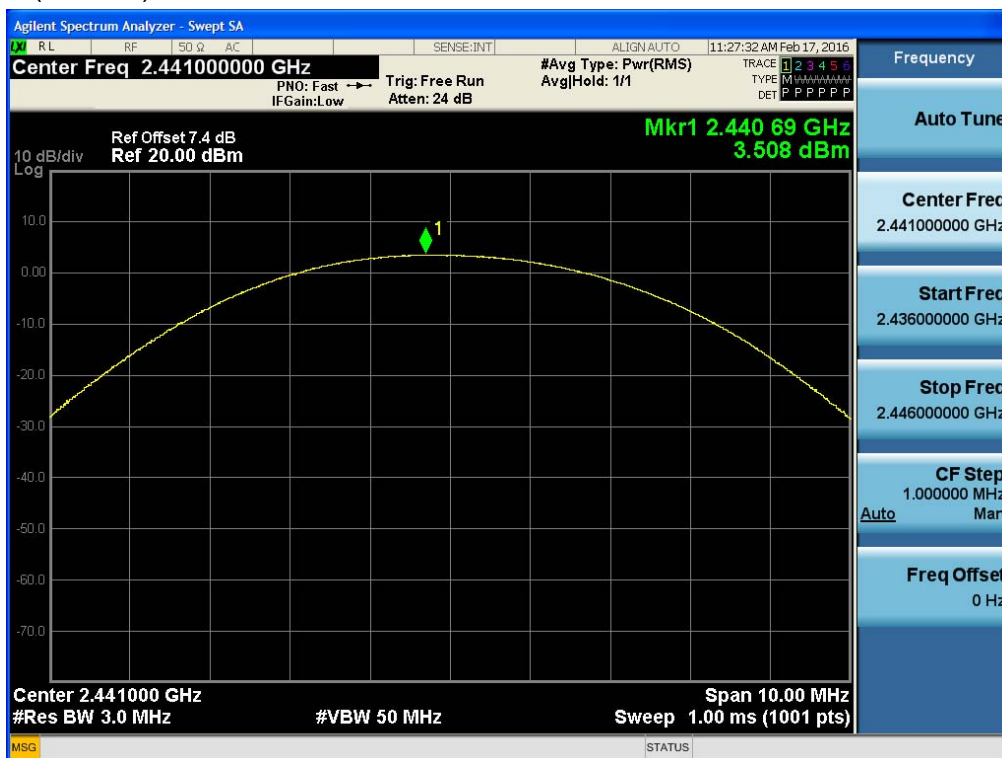
Test Plots (8DPSK)
Peak Power (High-CH)



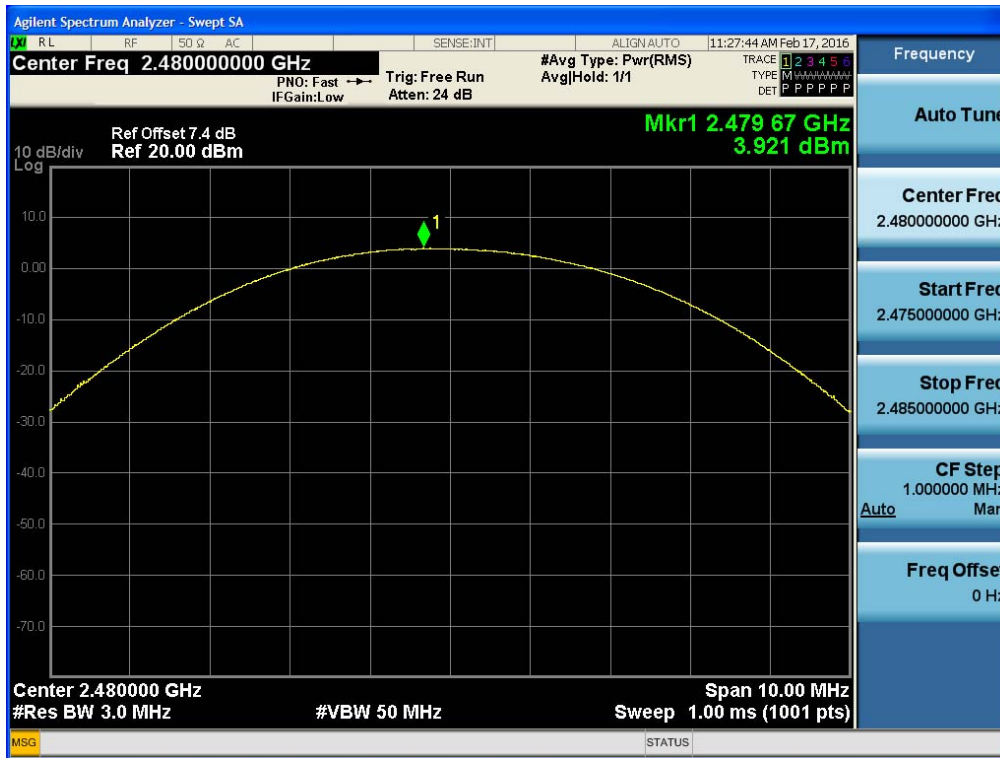
Test Plots ($\pi/4$ DQPSK)
Peak Power (Low-CH)



Test Plots ($\pi/4$ DQPSK)
Peak Power (Mid-CH)



Test Plots ($\pi/4$ DQPSK)
Peak Power (High-CH)

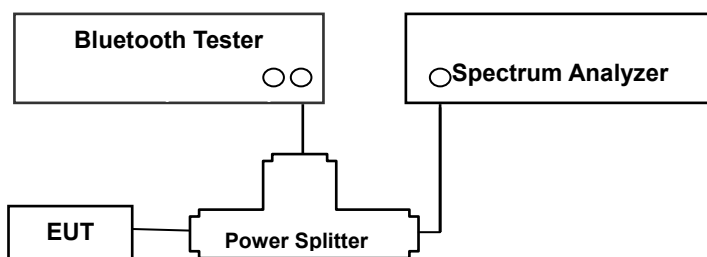


8.2 BAND EDGES

LIMIT

According to §15.247(d) / RSS-247 5.5, in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits.

Test Configuration



TEST PROCEDURE

This test is performed with hopping off and hopping on.

The Spectrum Analyzer is set to (6.10.4 in ANSI 63.10-2013)

- 1) 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
- 2) Reference level: As required to keep the signal from exceeding the maximum instrument input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (\text{OBW/RBW})]$ below the reference level.
- 3) Attenuation: Auto (at least 10 dB preferred).
- 4) Sweep time: Coupled.
- 5) RBW: 100 kHz
- 6) VBW: 300 kHz
- 7) Detector: Peak
- 8) Trace: Max hold

TEST RESULTS

See attached.

Note :

1. The results in plot is already including the actual values of loss for the splitter and cable combination.
2. Spectrum offset = Power Splitter loss + Cable loss
3. We apply to the offset in the 2.4 GHz range that was rounded off to the closest tenth dB. Actual value of loss for the splitter and cable combination is 7.36 dB at 2402 MHz and is 7.44 dB at 2480 MHz. So, 7.4 dB is offset. And the offset gap in the 2.4 GHz range do not affect the band edge measurement final result.

Test Data

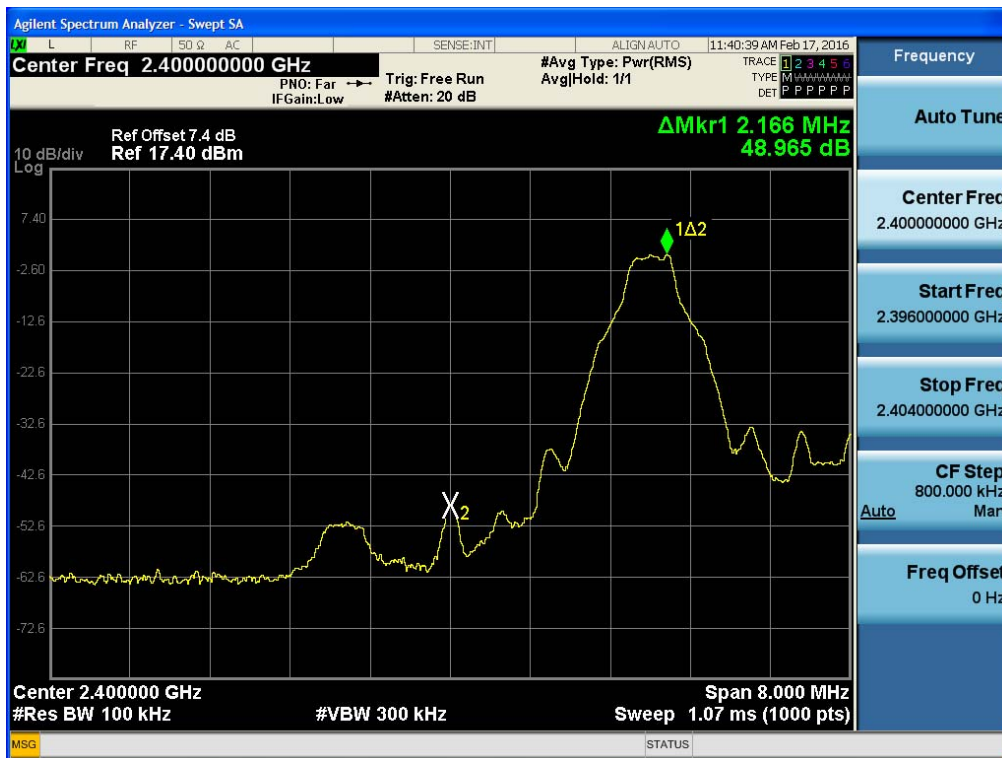
- Without hopping

Outside Frequency Band	GFSK	8DPSK	$\pi/4$ DQPSK	Limit (dBc)	Margin			Result
	(dB)	(dB)	(dB)		GFSK (dBc)	8DPSK (dBc)	$\pi/4$ DQPSK (dBc)	
Lower	48.965	40.211	40.146	20	28.965	20.211	20.146	PASS
Upper	59.022	55.221	55.490		39.022	35.221	35.490	PASS

- With hopping

Outside Frequency Band	GFSK	8DPSK	$\pi/4$ DQPSK	Limit (dBc)	Margin			Result
	(dB)	(dB)	(dB)		GFSK (dBc)	8DPSK (dBc)	$\pi/4$ DQPSK (dBc)	
Lower	52.376	41.918	42.313	20	32.376	21.918	22.313	PASS
Upper	56.792	56.609	57.282		36.792	36.609	37.282	PASS

Test Plots without hopping (GFSK)
Band Edges (Low-CH)



Test Plots without hopping (GFSK)
Band Edges (High-CH)



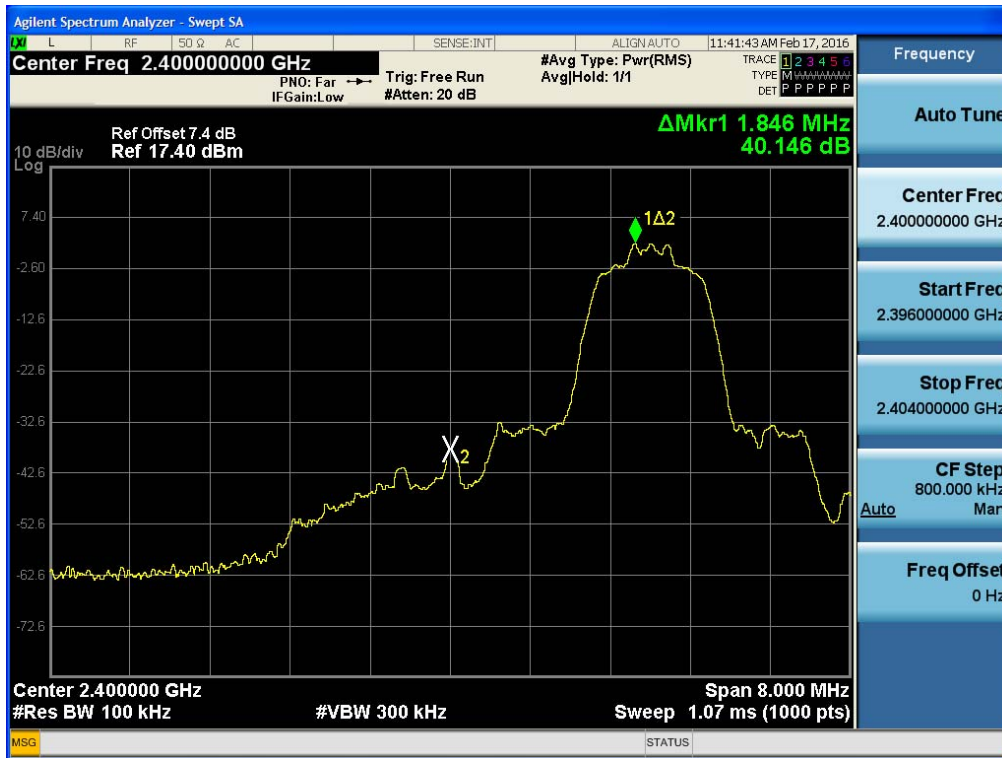
Test Plots without hopping (8DPSK)
Band Edges (Low-CH)



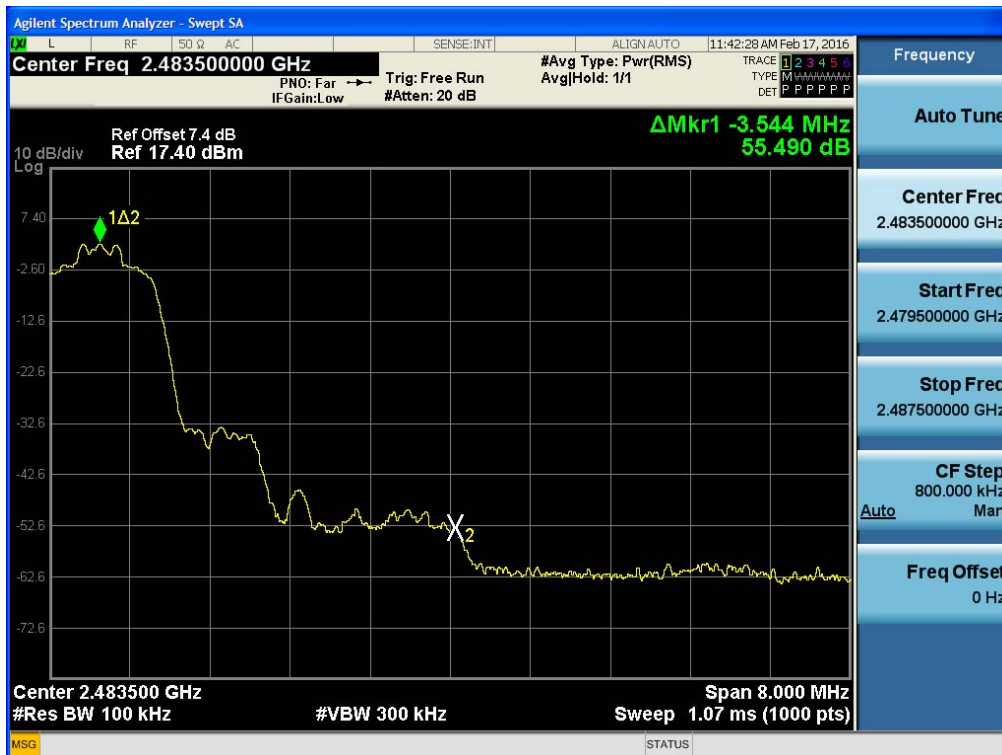
Test Plots without hopping (8DPSK)
Band Edges (High-CH)



Test Plots without hopping ($\pi/4$ DQPSK)
Band Edges (Low-CH)



Test Plots without hopping ($\pi/4$ DQPSK)
Band Edges (High-CH)



Test Plots with hopping (GFSK)
Band Edges (Low-CH)



Test Plots with hopping (GFSK)
Band Edges (High-CH)



Test Plots with hopping (8DPSK)
Band Edges (Low-CH)



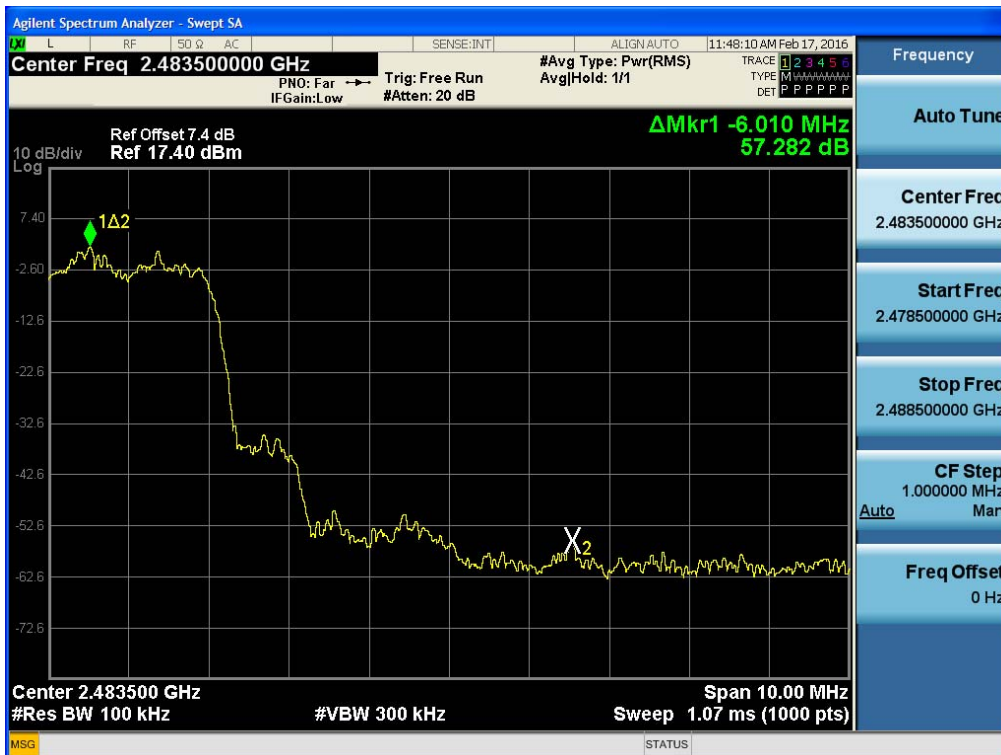
Test Plots with hopping (8DPSK)
Band Edges (High-CH)



Test Plots with hopping ($\pi/4$ DQPSK)
Band Edges (Low-CH)



Test Plots with hopping ($\pi/4$ DQPSK)
Band Edges (High-CH)

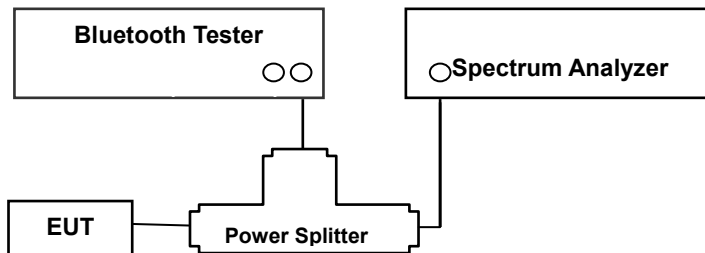


8.3 FREQUENCY SEPARATION / OCCUPIED BANDWIDTH (99% BW)

LIMIT

According to §15.247(a)(1) / RSS-247 5.1.2, 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.

Test Configuration



TEST PROCEDURE

The Channel Separation test is performed with hopping on. And the 20 dB Bandwidth test is performed with hopping off.

The Spectrum Analyzer is set to (7.8.2 in ANSI 63.10-2013)

- 1) Span: Wide enough to capture the peaks of two adjacent channels
- 2) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
- 3) VBW $\geq$ RBW
- 4) Sweep: Auto
- 5) Detector: Peak
- 6) Trace: Max hold
- 7) All the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A plot of the data shall be included in the test report.

TEST RESULTS

No non-compliance noted

Test Data

Channel Separation (kHz)			20dB Bandwidth (kHz)				Limit (kHz)	Result
GFSK	8DPSK	$\pi/4$ DQPSK	Channel	GFSK	8DPSK	$\pi/4$ DQPSK		
998	998	1001	Low CH	954.2	1301.8	1269.4	>25 or >2/3 of the 20dB BW	Pass
			Middle CH	951.8	1273.0	1263.0		
			High CH	953.1	1276.6	1267.2		

Occupied Bandwidth (99% BW)

99% BW (kHz)			
Channel	GFSK	8DPSK	$\pi/4$ DQPSK
Low CH	877.98	1180.19	1169.21
Middle CH	872.84	1175.05	1167.77
High CH	872.98	1175.06	1166.69

Note : We can not know what use channel in AFH mode. So, we can not test in AFH mode. Also, if the test performs some channel in AFH mode, the test result is not different with normal mode.h normal mode.

Test Plots (GFSK)
Channel Separation



Test Plots (8DPSK)
Channel Separation



Test Plots ($\pi/4$ DQPSK)

Channel Separation



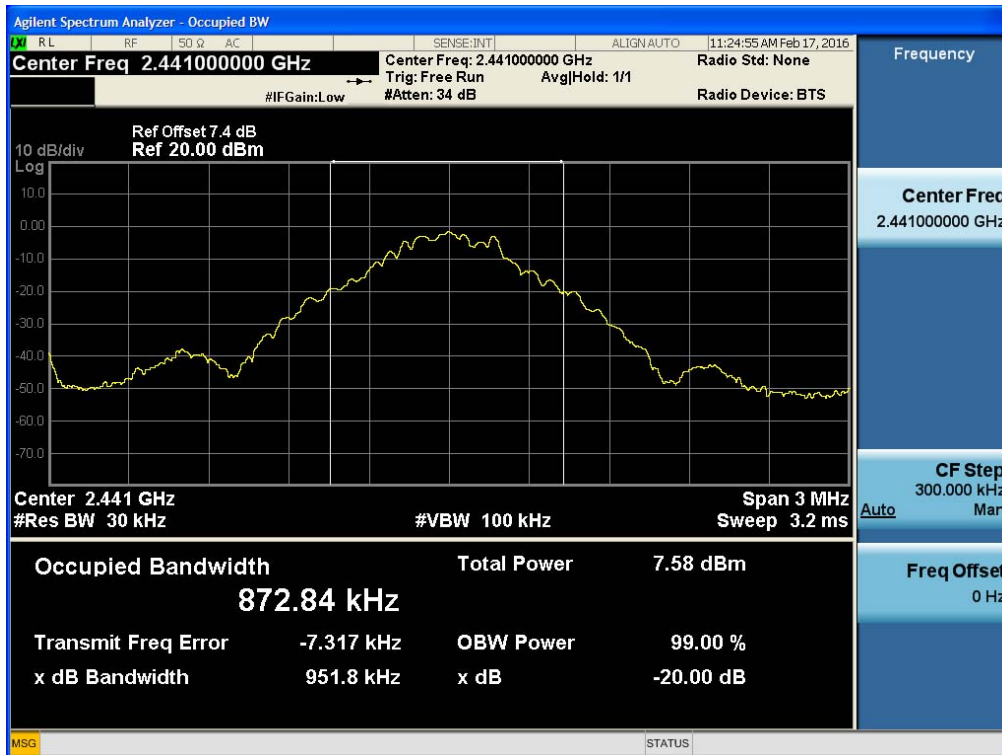
Test Plots (GFSK)

20 dB Bandwidth & Occupied Bandwidth (Low-CH)



Test Plots (GFSK)

20 dB Bandwidth & Occupied Bandwidth (Mid-CH)



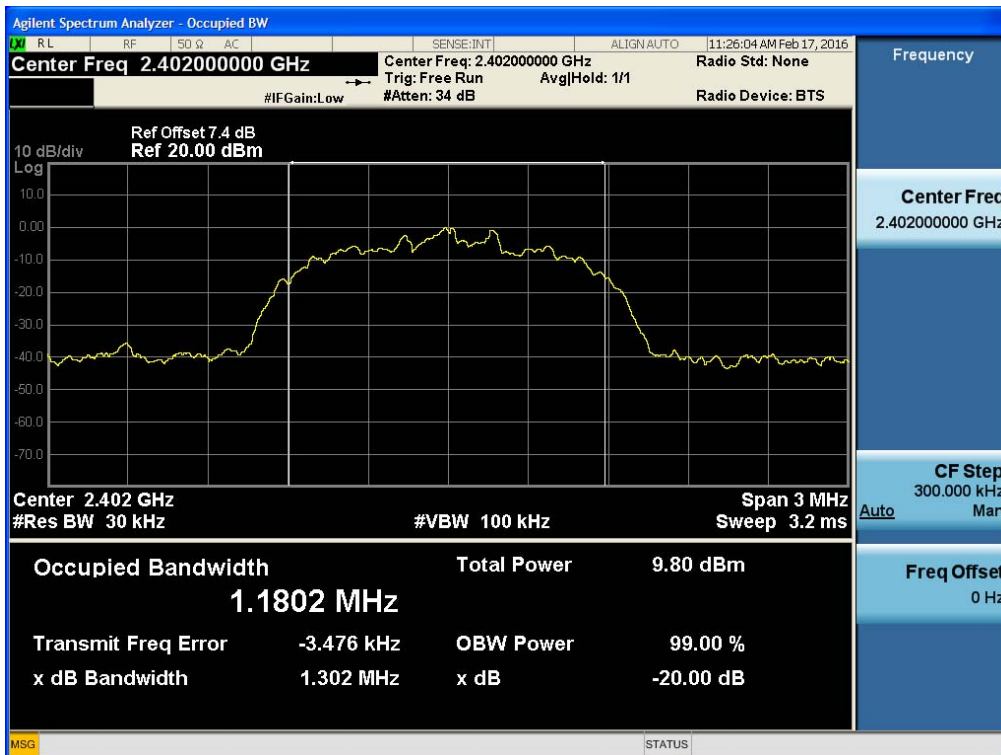
Test Plots (GFSK)

20 dB Bandwidth & Occupied Bandwidth (High-CH)



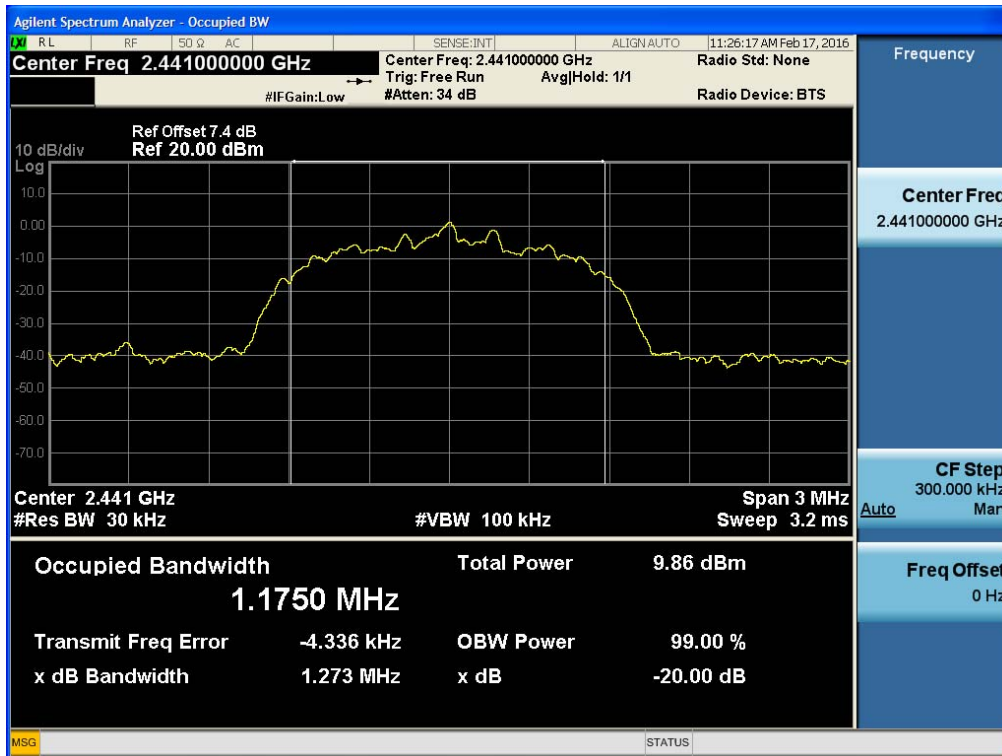
Test Plots (8DPSK)

20 dB Bandwidth & Occupied Bandwidth (Low-CH)



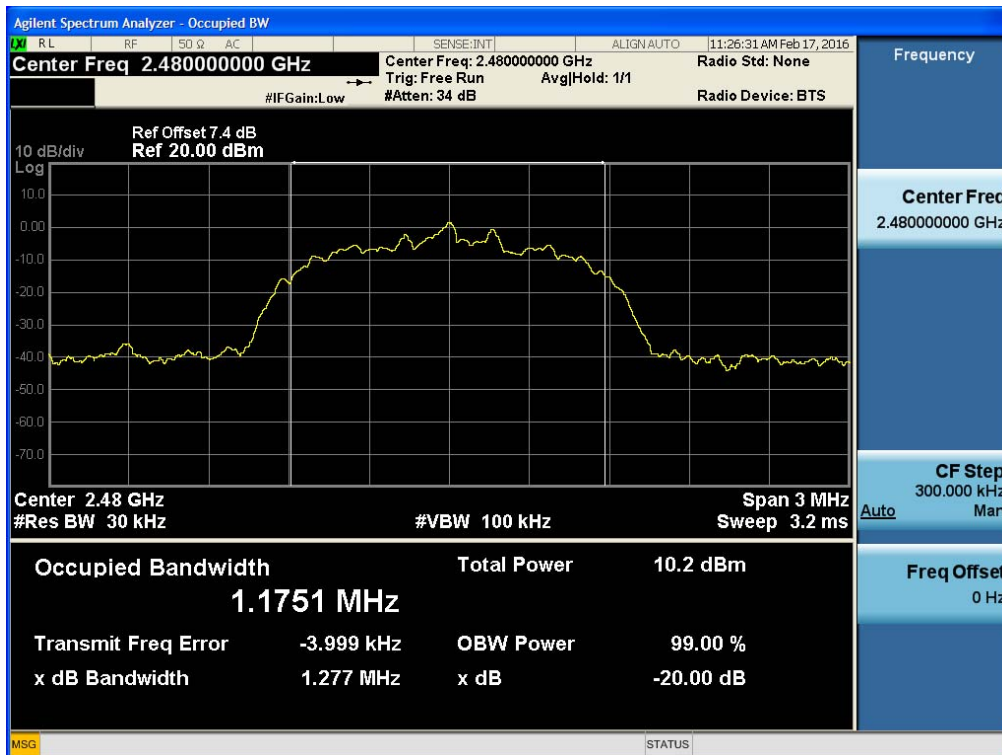
Test Plots (8DPSK)

20 dB Bandwidth & Occupied Bandwidth (Mid-CH)



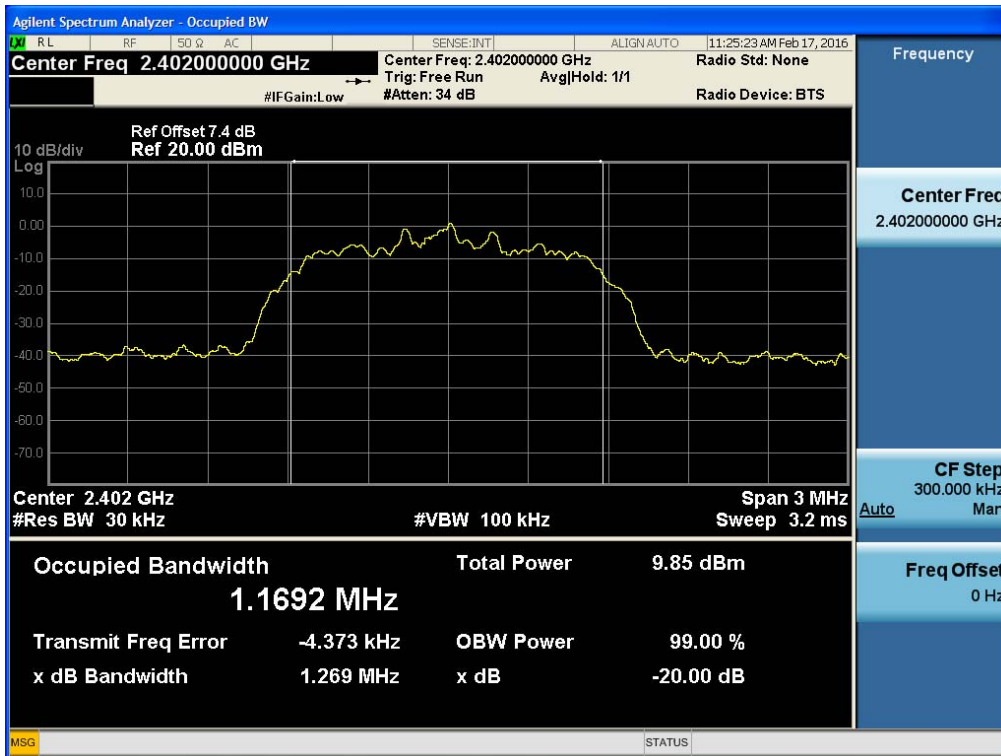
Test Plots (8DPSK)

20 dB Bandwidth & Occupied Bandwidth (High-CH)



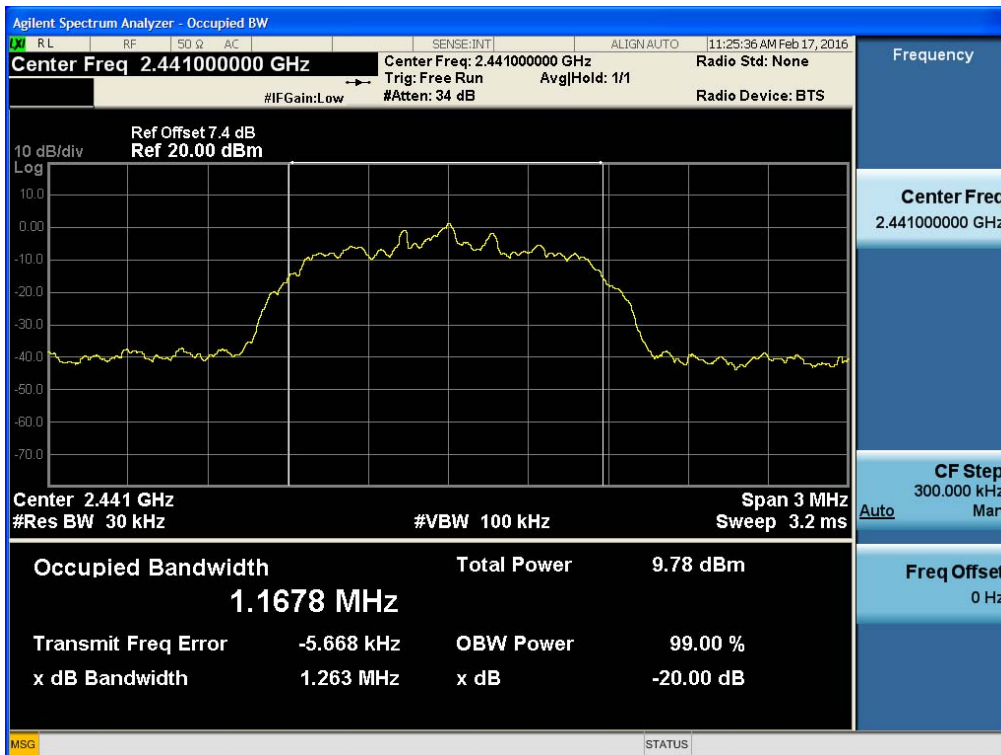
Test Plots ($\pi/4$ DQPSK)

20 dB Bandwidth & Occupied Bandwidth (Low-CH)



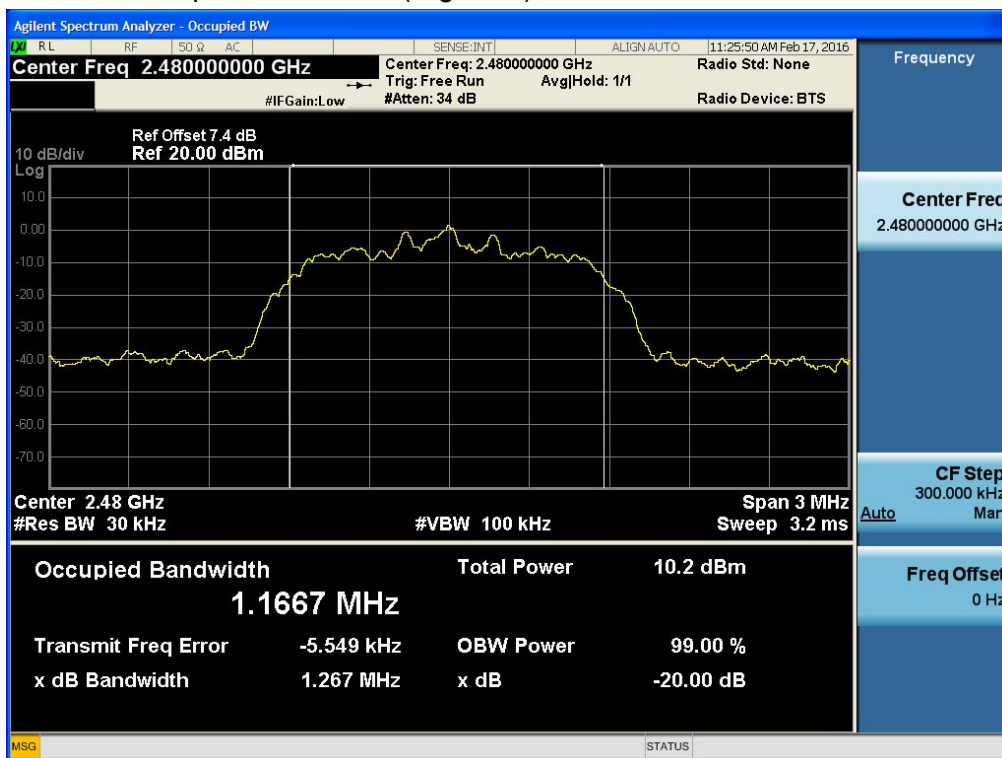
Test Plots ($\pi/4$ DQPSK)

20 dB Bandwidth & Occupied Bandwidth (Mid-CH)



Test Plots ($\pi/4$ DQPSK)

20 dB Bandwidth & Occupied Bandwidth (High-CH)

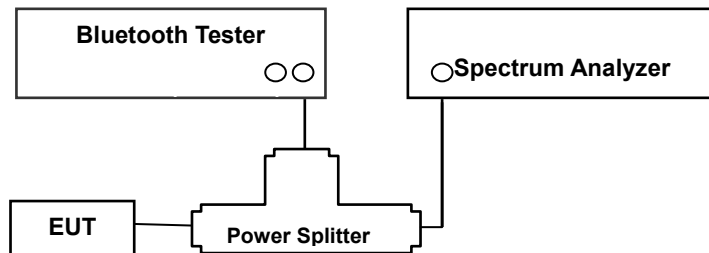


8.4 NUMBER OF HOPPING FREQUENCY

LIMIT

According to §15.247(a)(1)(iii) / RSS-247 5.1.4, Frequency hopping systems operating in the 2400 MHz ~ 2483.5 MHz bands shall use at least 15 hopping frequencies.

Test Configuration



TEST PROCEDURE

The Bluetooth frequency hopping function of the EUT was enabled.

The Spectrum Analyzer is set to (7.8.3 in ANSI 63.10-2013)

- 1) Span: the frequency band of operation
- 2) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
- 3) VBW $\geq$ RBW
- 4) Sweep: Auto
- 5) Detector: Peak
- 6) Trace: Max hold
- 7) Allow the trace to stabilize.

TEST RESULTS

No non-compliance noted

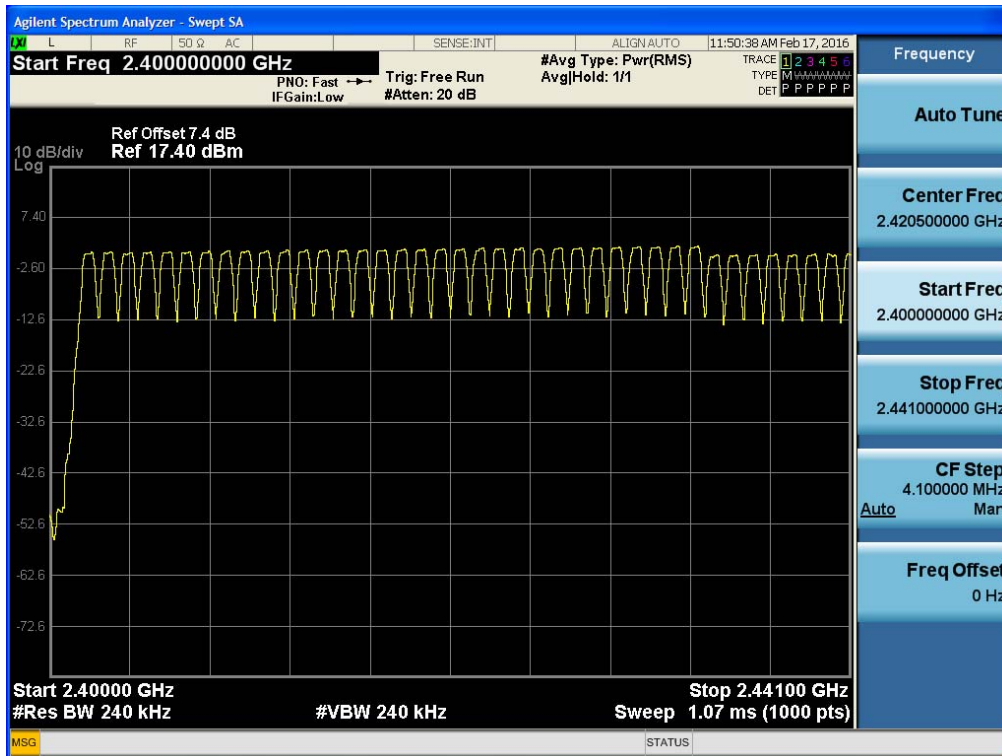
Test Data

Result (No. of CH)			Limit	Result
GFSK	8DPSK	$\pi/4$ DQPSK		
79	79	79	>15	Pass

Note : In case of AFH mode, minimum number of hopping channels is 20.

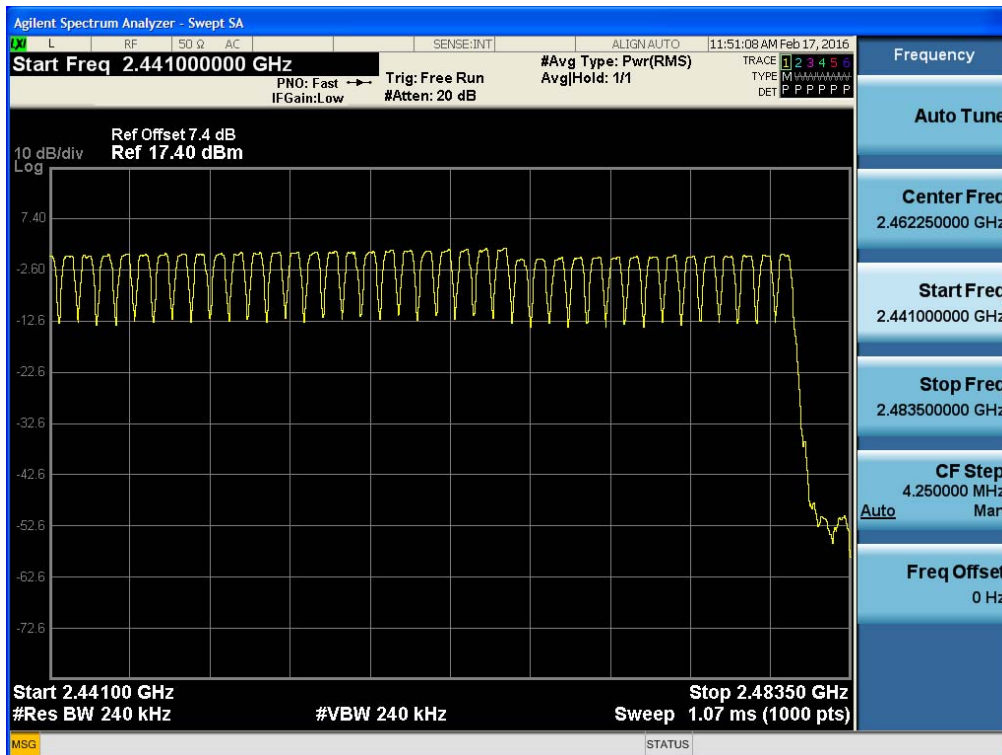
Test Plots (GFSK)

Number of Channels (2.4 GHz - 2.441 GHz)



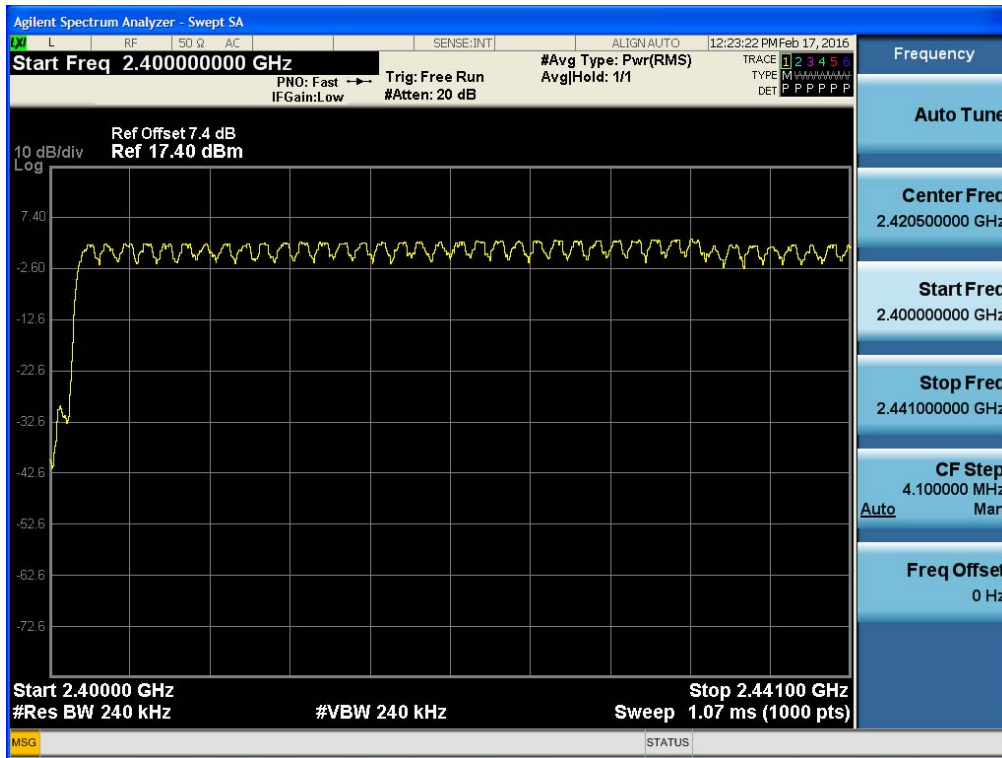
Test Plots (GFSK)

Number of Channels (2.441 GHz - 2.4835 GHz)



Test Plots (8DPSK)

Number of Channels (2.4 GHz - 2.441 GHz)



Test Plots (8DPSK)

Number of Channels (2.441 GHz - 2.4835 GHz)

