FCC - TEST REPORT

Report Number	: **60.790.16.705.01R03**	Date of Issue:	March 4, 2016

Model	: BT-101
Product Type	: BT-101 Bluetooth in-ear headsets
Applicant	: Fujikon Industrial Co., Ltd.
Address	: 16/F Tower 1, Grand Central Plaza, 138 Shatin Rural Committee Road, Shatin N.T. Hong Kong
Production Facility	: Charter Media (Dongguan) Co., Ltd.
Address	: Dabandi Industrial Zone, Daning District, Humen Town, Dongguan City, Guangdong Province 523930, P. R. China
Test Result	: ■ **Positive** ☐ **Negative**
Total pages including Appendices	: 46

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1 Table of Contents

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2 Details about the Test Laboratory

Details about the Test Laboratory
Test Site 1

Company name: TÜV SÜD Hong Kong Ltd.
3/F, West Wing, Lakeside 2,
10 Science Park West Avenue,
Science Park, Shatin, Hong Kong

Test Site 2
Company name: Hong Kong Productivity Council
LG1, HKPC Building,
78 Tat Chee Avenue,
Kowloon, Hong Kong

FCC Registration Number: 90656

3 Description of the Equipment Under Test

Product:	BT-101Bluetooth in-ear headsets
Model no.:	BT-101
FCC ID：	TTC-BT-101
Options and accessories:	Nil
Rating:	DC3.7V Supplied by Li-ion Rechargeable Battery DC5.0V Charged by the mini-USB port
RF Transmission Frequency:	2402MHz-2480MHz
No. of Operated Channel:	79
Modulation:	GFSK, π/4-DQPSK, 8-DPSK
Antenna Type:	Chip antenna
Antenna Gain:	1.6dBi
Description of the EUT:	The Equipment Under Test (EUT) is a Bluetooth headset operated at 2.4GHz

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4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C 10-1-2015 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators

All the test methods were according to Public Notice DA 00-705 -Frequency Hopper Spread Spectrum Test Procedure released by FCC on March 30, 2000 and C63.10 -2013.

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5 Summary of Test Results

Technical Requirements				
FCC Part 15 Subpart C				
Test Condition		Pages	Test Result	Test Site
§15.207	Conducted emission AC power port	10	Pass	Site 2
§15.247(b)(1)	Conducted peak output power	13	Pass	Site 2
§15.247(e)	Power spectral density	--	N/A	--
§15.247(a)(2)	6dB bandwidth	--	N/A	--
§15.247(a)(1)	20dB bandwidth and 99% Occupied Bandwidth	19	Pass	Site 2
§15.247(a)(1)	Carrier frequency separation	26	Pass	Site 2
§15.247(a)(1)(iii)	Number of hopping frequencies	29	Pass	Site 2
§15.247(a)(1)(iii)	Dwell Time	31	Pass	Site 2
§15.247(d)	Spurious RF conducted emissions	34	Pass	Site 2
§15.247(d)	Band edge	38	Pass	Site 2
§15.247(d) & §15.209 &	Spurious radiated emissions for transmitter	43	Pass	Site 2
§15.203	Antenna requirement	See note 1	Pass	--

Note 1: N/A=Not Applicable.
Note 2: The EUT uses a patch antenna, which gain is 1.6dBi. In accordance to §15.203, it is considered sufficiently to comply with the provisions of this section.

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6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: TTC-BT-101, complies with Section 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C rules.

SUMMARY:

All tests according to the regulations cited on page 5 were

■ - Performed

☐ - **Not** Performed

The Equipment Under Test

■ - **Fulfills** the general approval requirements.

☐ - **Does not** fulfill the general approval requirements.

Sample Received Date: February 15, 2016

Testing Start Date: February 16, 2016

Testing End Date: March 1, 2016

- TÜV SÜD HONG KONG LTD. -

Reviewed by:

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EMC Project Manager

Prepared by:

Felix Li
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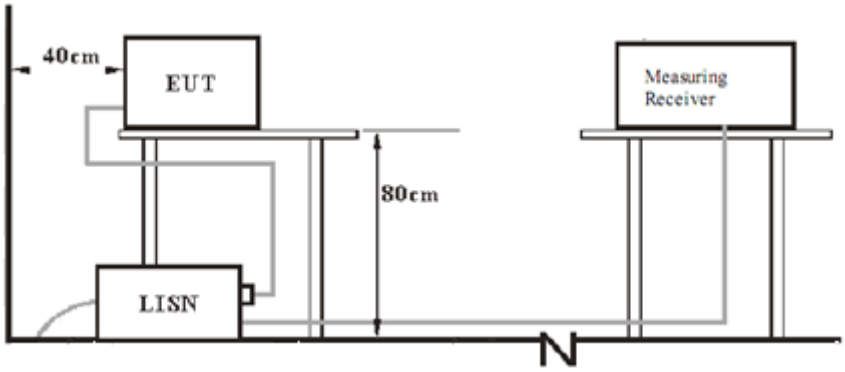
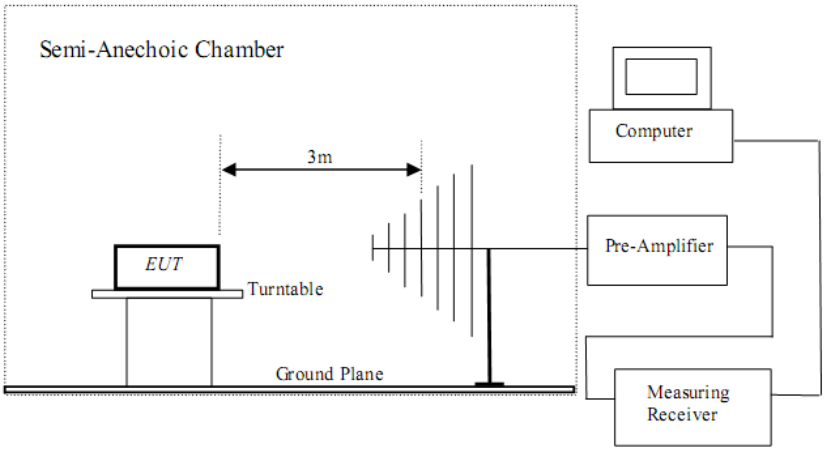
7 Test Setups

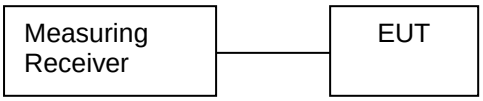
7.1 AC Power Line Conducted Emission test setups



7.2 Radiated test setups



7.3 Conducted RF test setups



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8 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.	S/N
PC	lenovo	X220	---

Test software: Blue test 3.0, which used to control the EUT in continues transmitting mode

The system was configured to hopping mode and non-hopping mode.

Hopping mode: typical working mode (normal hopping status)

Non-hopping mode: The system was configured to operate at a signal channel transmitting. The test software allows the configuration and operation at the worst-case duty and the highest transmit power

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9 Technical Requirement

9.1 Conducted Emission

Test Method

1. The EUT was placed on a table, which is 0.8m above ground plane
2. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.).
3. Maximum procedure was performed to ensure EUT compliance
4. A EMI test receiver is used to test the emissions from both sides of AC line

Limit

Frequency MHz	QP Limit dBµV	AV Limit dBµV
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

Decreasing linearly with logarithm of the frequency

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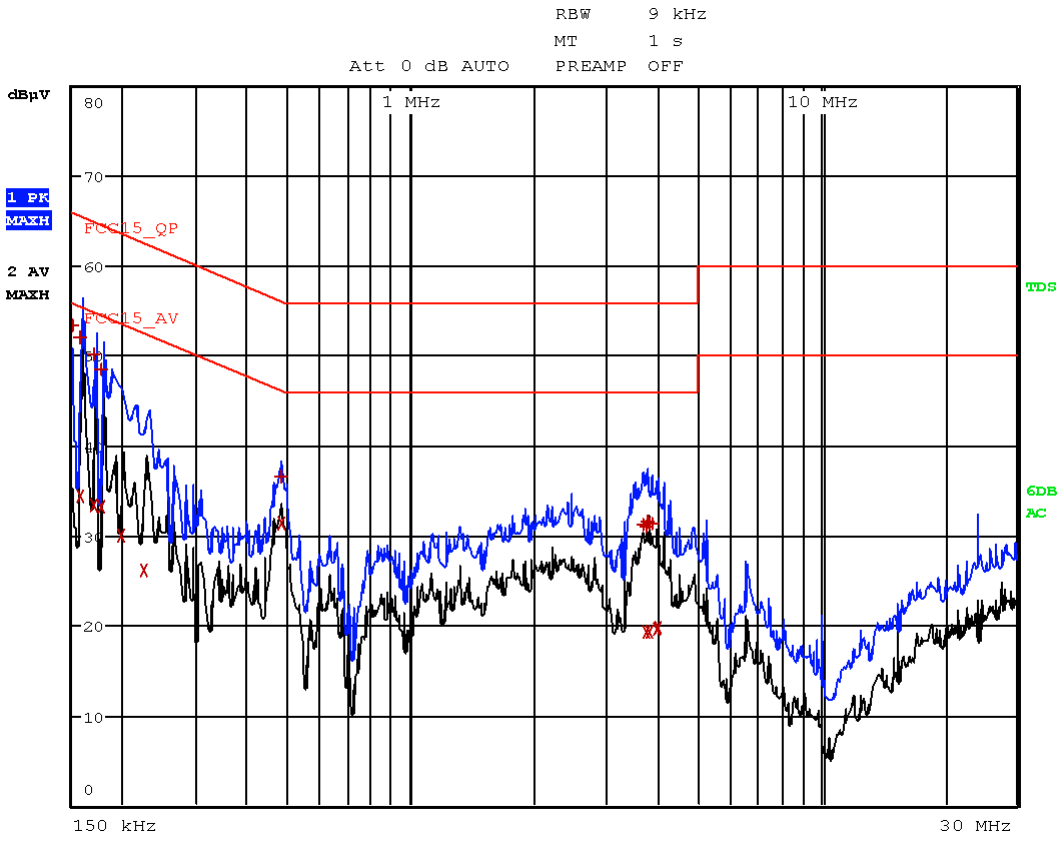
Conducted Emission

Product Type	:	BT-101Bluetooth in-ear headsets
M/N	:	BT-101
Operating Condition	:	Charging & BT
Test Specification	:	Live
Comment	:	AC 120V/60Hz



Trace	Frequency	Level (dBµV)	Detector	Delta Limit/dB
1	150.000000000 kHz	53.32	Quasi Peak	-12.68
1	158.000000000 kHz	51.96	Quasi Peak	-13.61
2	158.000000000 kHz	34.39	Average	-21.17
1	170.000000000 kHz	50.17	Quasi Peak	-14.79
2	170.000000000 kHz	33.44	Average	-21.52
1	178.000000000 kHz	48.49	Quasi Peak	-16.09
2	178.000000000 kHz	33.22	Average	-21.36
2	198.000000000 kHz	30.01	Average	-23.69
2	226.000000000 kHz	26.10	Average	-26.50
1	482.000000000 kHz	36.55	Quasi Peak	-19.76
2	482.000000000 kHz	31.33	Average	-14.98
1	3.666000000 MHz	31.21	Quasi Peak	-24.79
2	3.734000000 MHz	19.29	Average	-26.71
1	3.746000000 MHz	31.08	Quasi Peak	-24.92
1	3.770000000 MHz	31.44	Quasi Peak	-24.56
1	3.818000000 MHz	31.29	Quasi Peak	-24.71
2	3.818000000 MHz	19.27	Average	-26.73
1	3.878000000 MHz	31.32	Quasi Peak	-24.68
2	3.966000000 MHz	19.61	Average	-26.39
2	4.002000000 MHz	19.70	Average	-26.30

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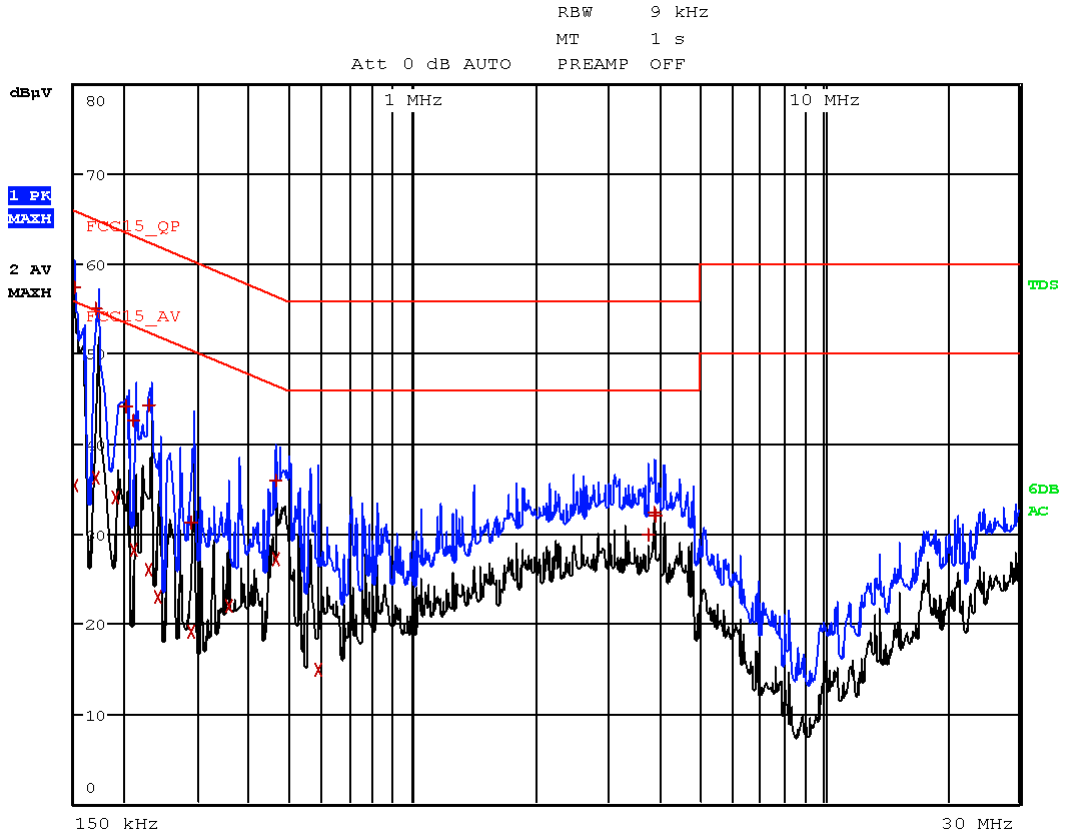
Conducted Emission

Product Type	:	BT-101Bluetooth in-ear headsets
M/N	:	BT-101
Operating Condition	:	Charging & BT
Test Specification	:	Neutral
Comment	:	AC 120V/60Hz



Trace	Frequency	Level (dBµV)	Detector	Delta Limit/dB
1	150.000000000 kHz	57.33	Quasi Peak	-8.67
2	150.000000000 kHz	35.43	Average	-20.57
1	170.000000000 kHz	55.08	Quasi Peak	-9.88
2	170.000000000 kHz	36.21	Average	-18.75
2	190.000000000 kHz	34.01	Average	-20.03
1	202.000000000 kHz	44.17	Quasi Peak	-19.36
1	210.000000000 kHz	42.57	Quasi Peak	-20.64
2	210.000000000 kHz	28.12	Average	-25.08
1	230.000000000 kHz	44.20	Quasi Peak	-18.25
2	230.000000000 kHz	25.97	Average	-26.48
2	242.000000000 kHz	22.93	Average	-29.09
1	290.000000000 kHz	31.25	Quasi Peak	-29.28
2	290.000000000 kHz	19.09	Average	-31.43
2	354.000000000 kHz	21.90	Average	-26.97
1	462.000000000 kHz	35.92	Quasi Peak	-20.74
2	462.000000000 kHz	27.08	Average	-19.57
2	586.000000000 kHz	14.90	Average	-31.10
1	3.742000000 MHz	29.82	Quasi Peak	-26.18
1	3.882000000 MHz	32.30	Quasi Peak	-23.70
1	3.918000000 MHz	32.05	Quasi Peak	-23.95

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9.2 Conducted peak output power

Test Method

1. Use the following spectrum analyzer settings:
   Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel
   RBW > the 20 dB bandwidth of the emission being measured, VBW≥RBW,
   Sweep = auto, Detector function = peak, Trace = max hold
2. Add a correction factor to the display.
3. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power

Limits

Frequency Range MHz	Limit W	Limit dBm
2400-2483.5	≤1	≤30

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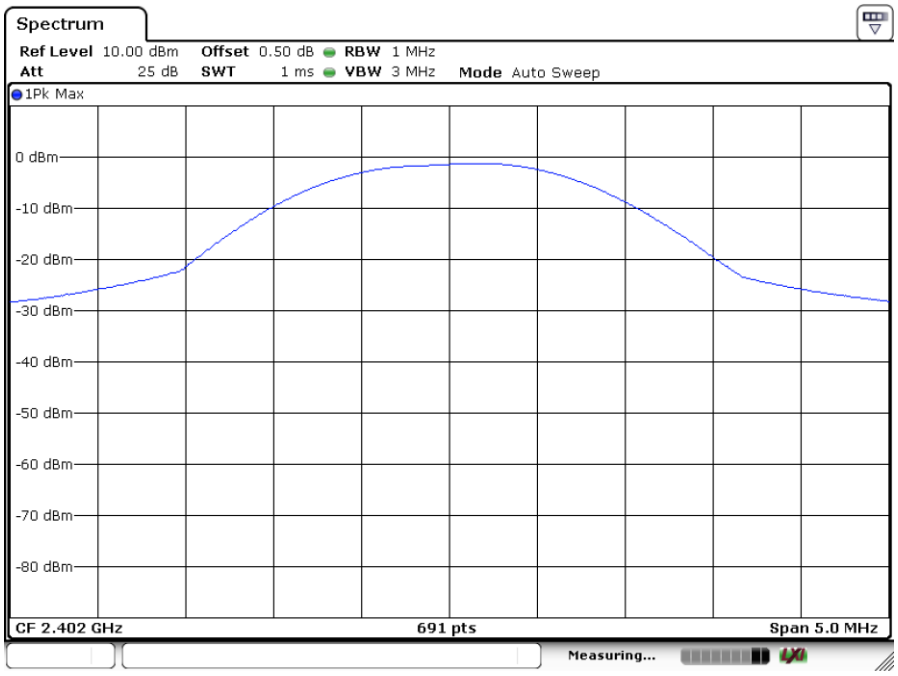
Conducted peak output power

Bluetooth Mode GFSK modulation Test Result

Frequency MHz	Conducted Peak Output Power dBm	Result
Low channel 2402MHz	-1.11	Pass
Middle channel 2441MHz	4.19	Pass
High channel 2480MHz	4.08	Pass

Low channel 2402MHz



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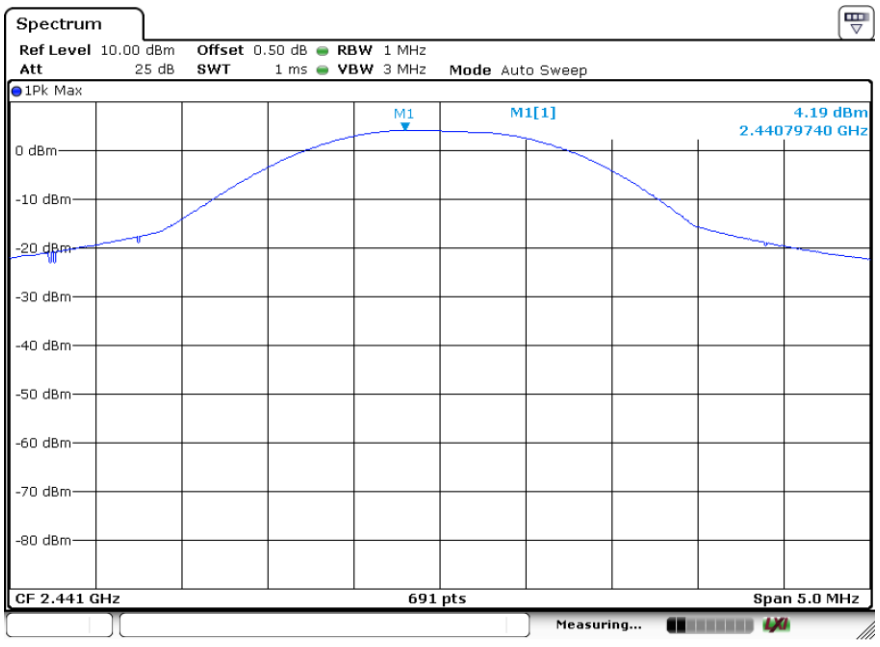
Middle channel 2441MHz



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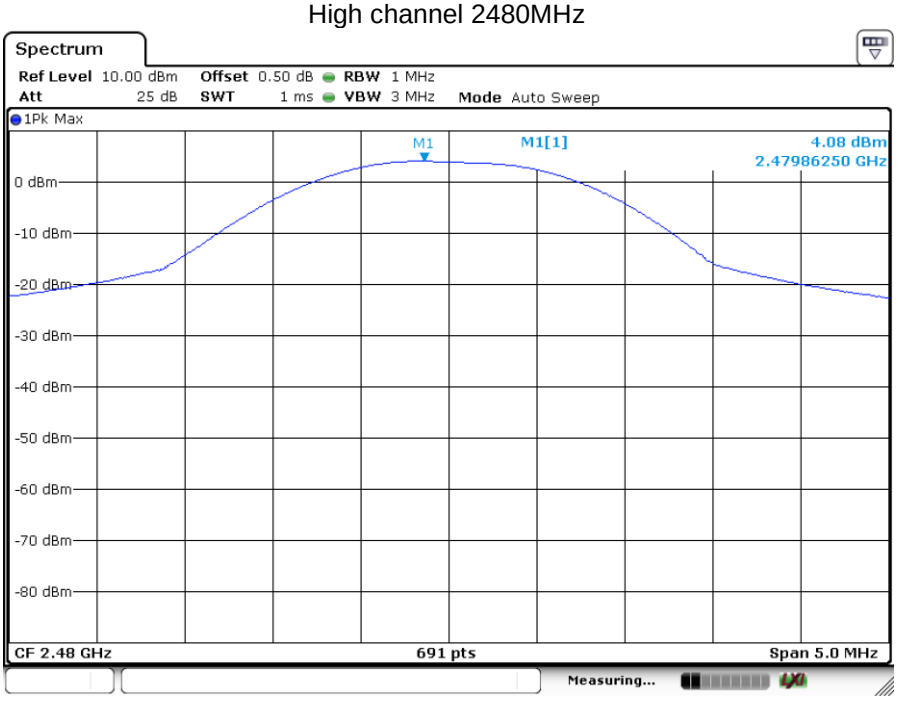
High channel 2480MHz



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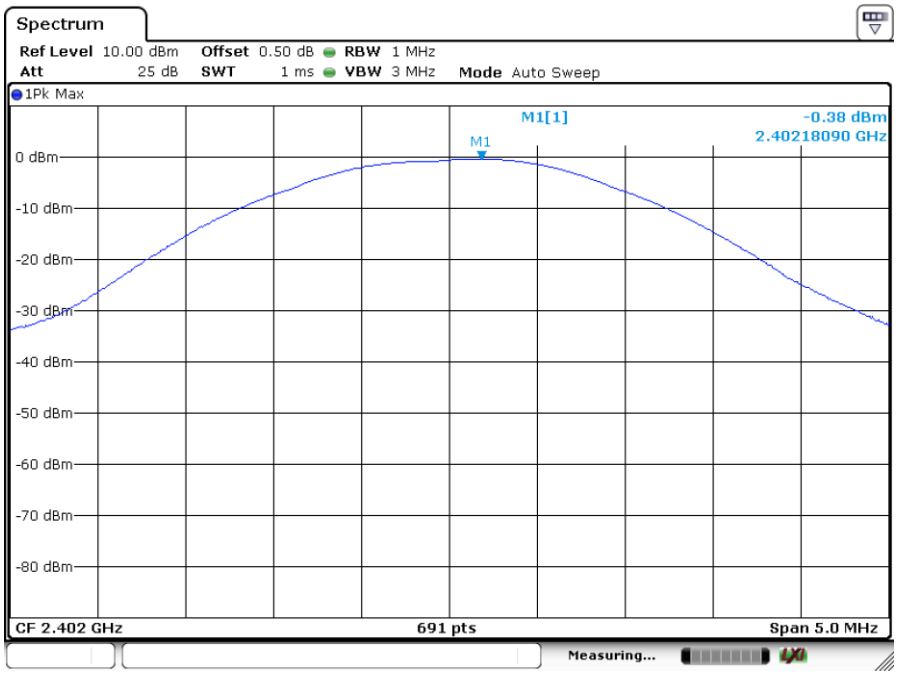
Bluetooth Mode π/4-DQPSK modulation Test Result

Frequency MHz	Conducted Peak Output Power dBm	Result
Low channel 2402MHz	0.38	Pass
Middle channel 2441MHz	4.03	Pass
High channel 2480MHz	4.07	Pass

Low channel 2402MHz



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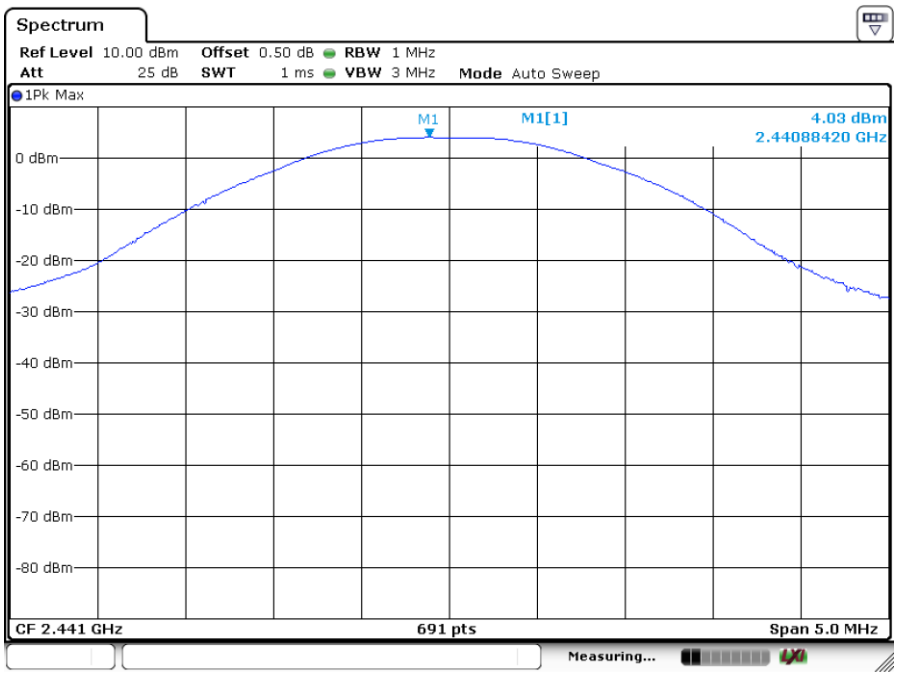
Middle channel 2441MHz



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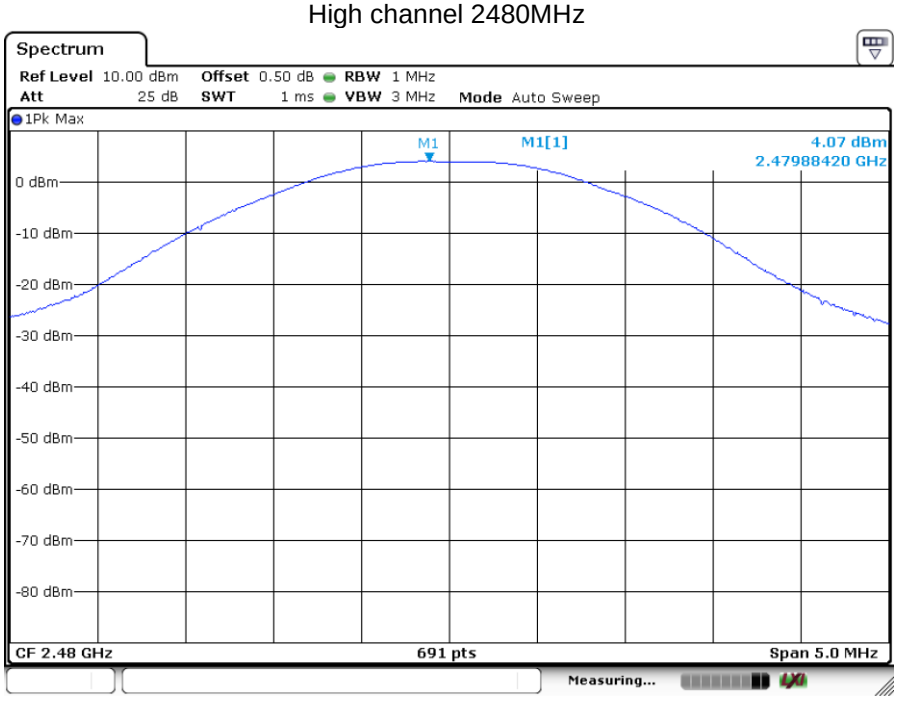
High channel 2480MHz



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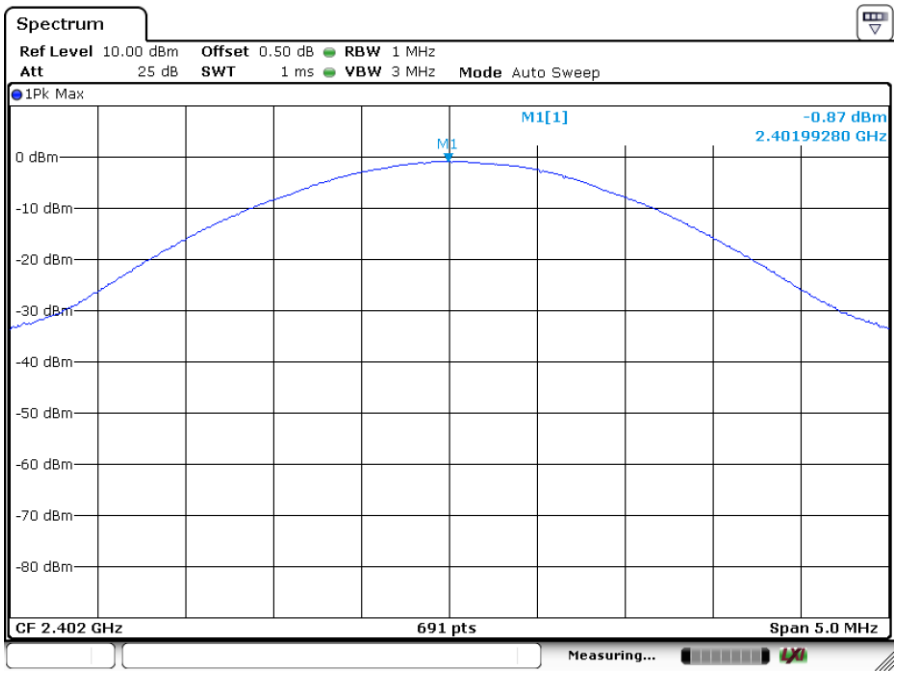
Bluetooth Mode 8DPSK modulation Test Result

Frequency MHz	Conducted Peak Output Power dBm	Result
Low channel 2402MHz	-0.87	Pass
Middle channel 2441MHz	4.13	Pass
High channel 2480MHz	4.14	Pass

Low channel 2402MHz



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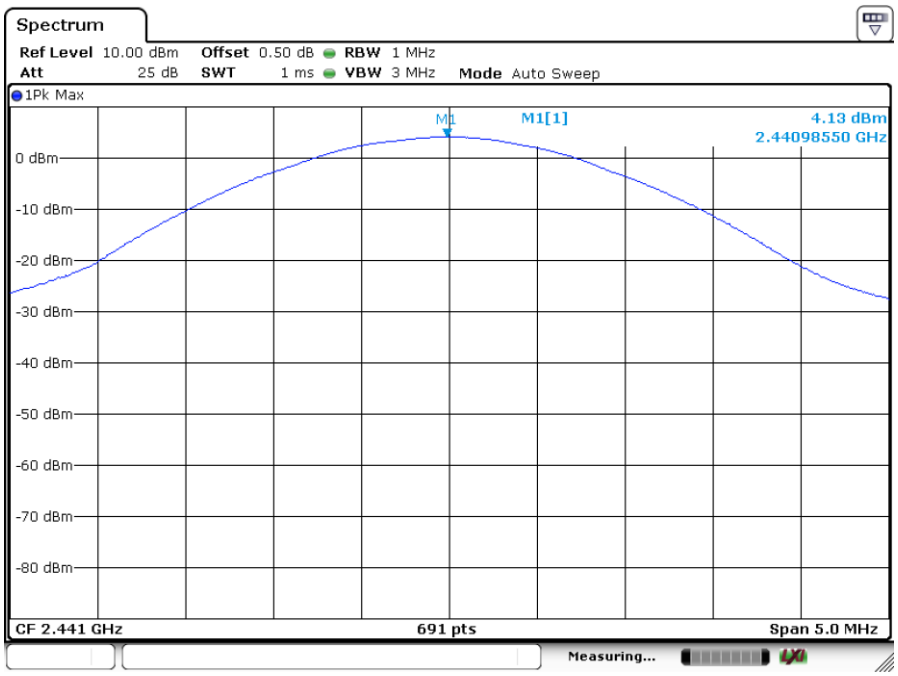
Middle channel 2441MHz



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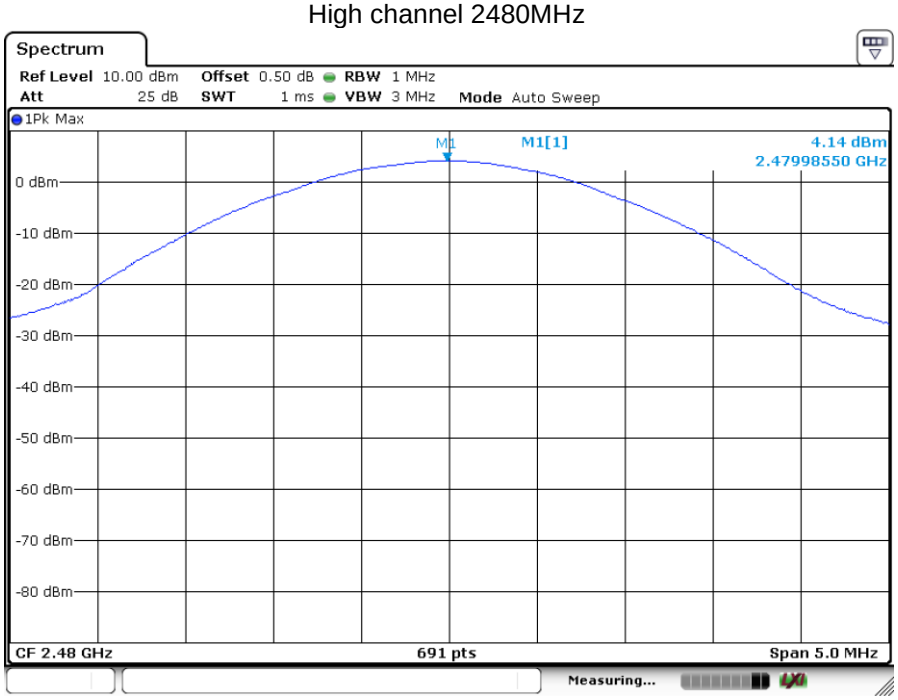
High channel 2480MHz



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9.3 20 dB bandwidth and 99% Occupied Bandwidth

Test Method

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.

Limit

Limit [kHz]
N/A

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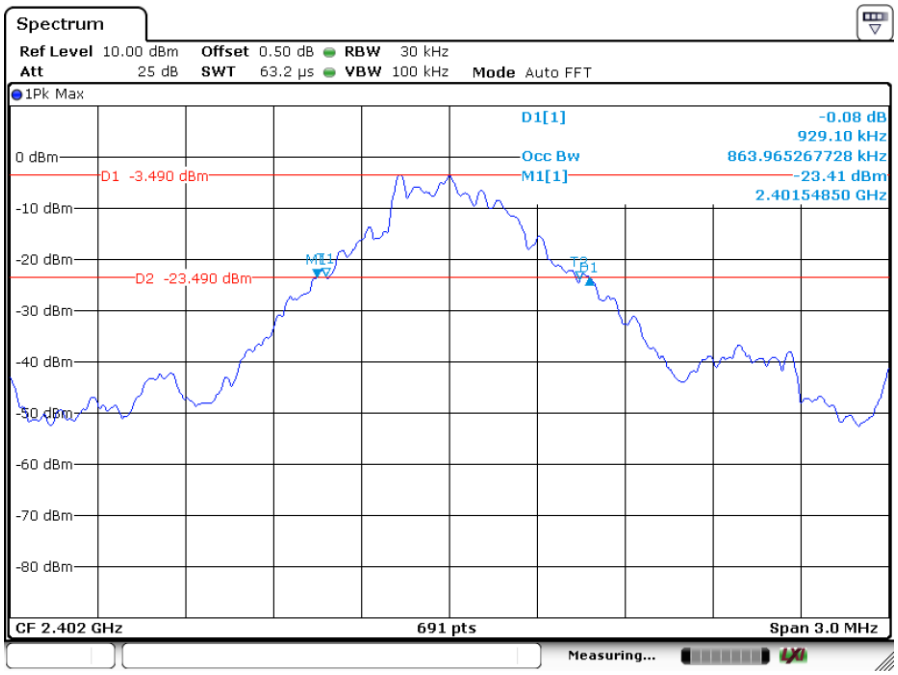
20 dB bandwidth and 99% Occupied Bandwidth

Bluetooth Mode GFSK Modulation test result

Frequency MHz	20 dB Bandwidth kHz	99% Bandwidth kHz	Limit kHz	Result
2402	929.1	863.97	--	Pass
2441	877.0	850.94	--	Pass
2480	924.7	855.28	--	Pass

2402MHz



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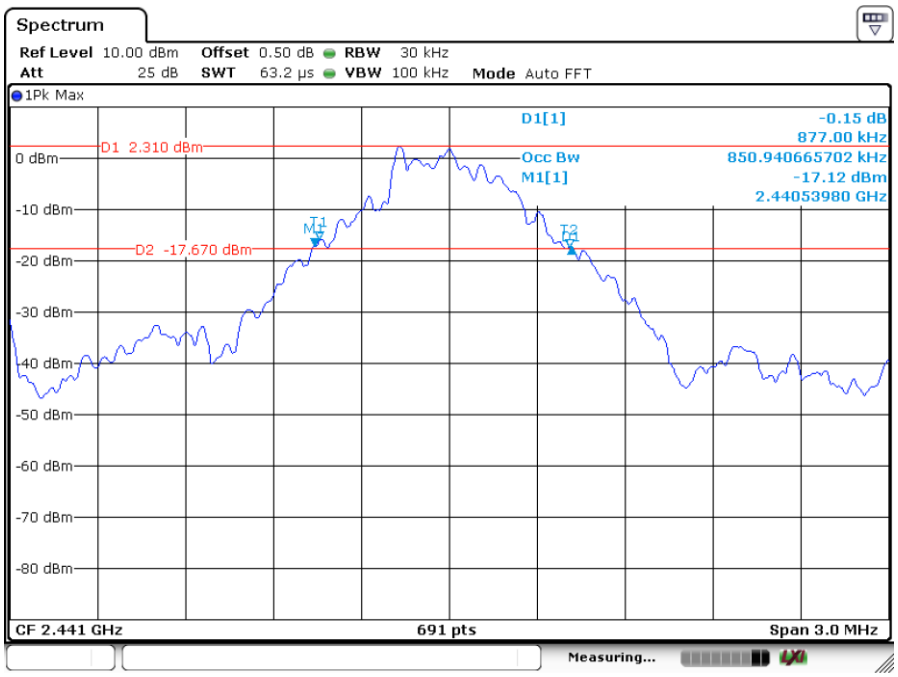
2441MHz



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2480MHz

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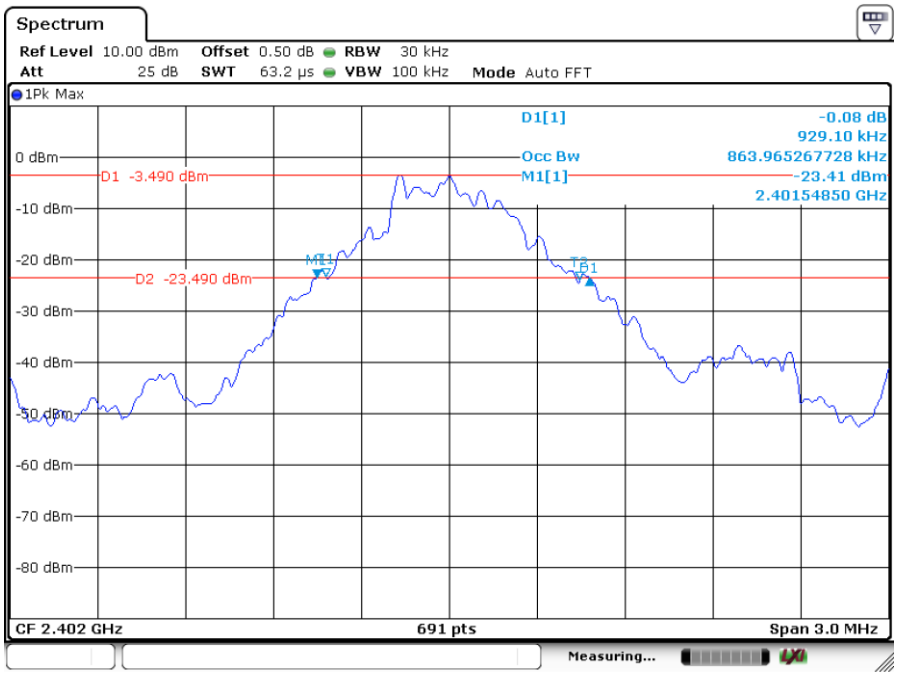
20 dB bandwidth and 99% Occupied Bandwidth

Bluetooth Mode π/4-DQPSK Modulation test result

Frequency MHz	20 dB Bandwidth kHz	99% Bandwidth kHz	Limit kHz	Result
2402	1211.3	1172.2	--	Pass
2441	1215.6	1176.6	--	Pass
2480	1215.6	1176.6	--	Pass

2402MHz



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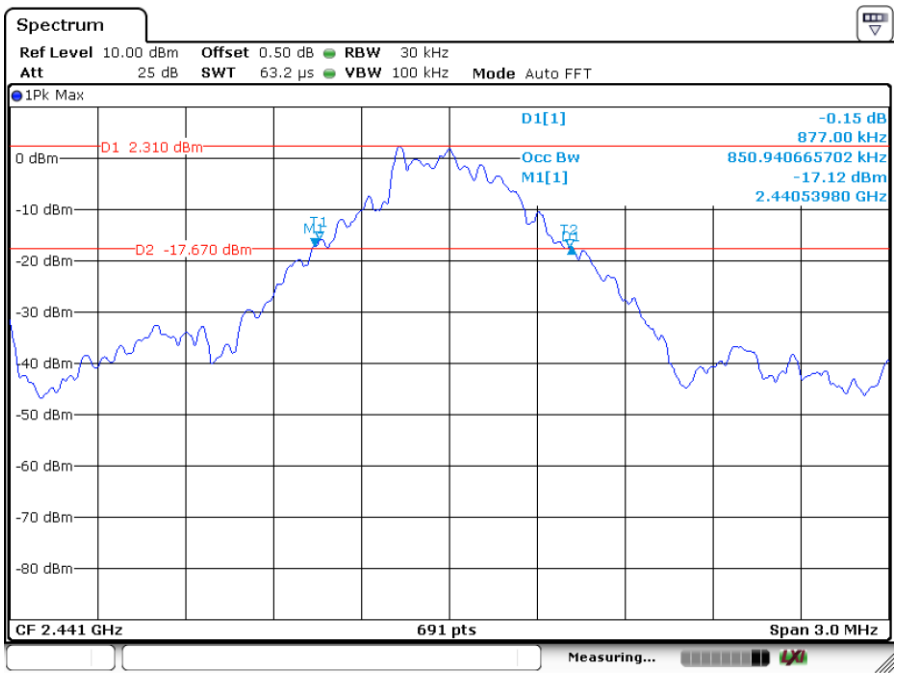
2441MHz



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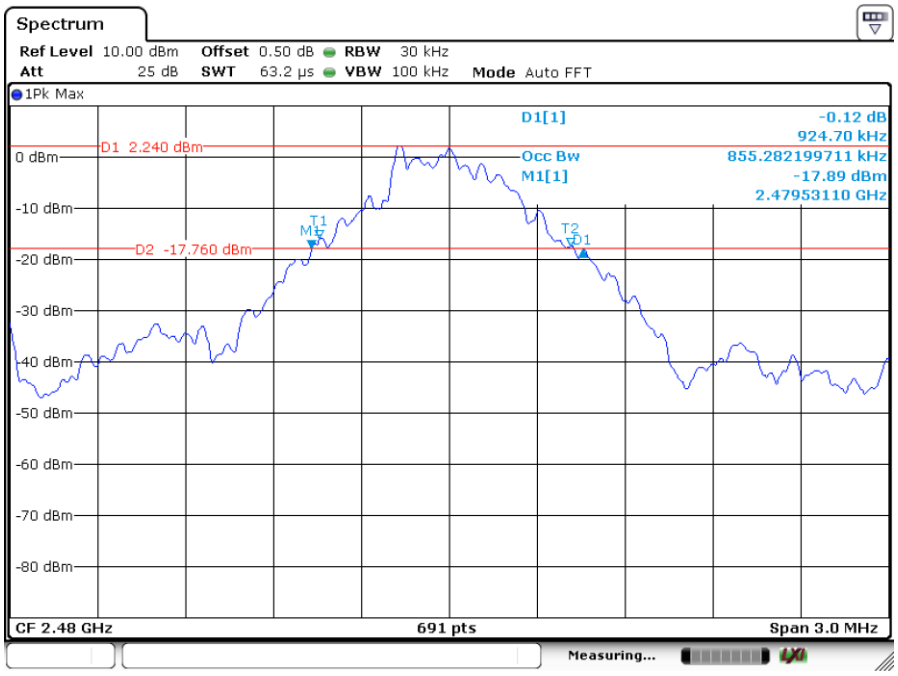
2480MHz



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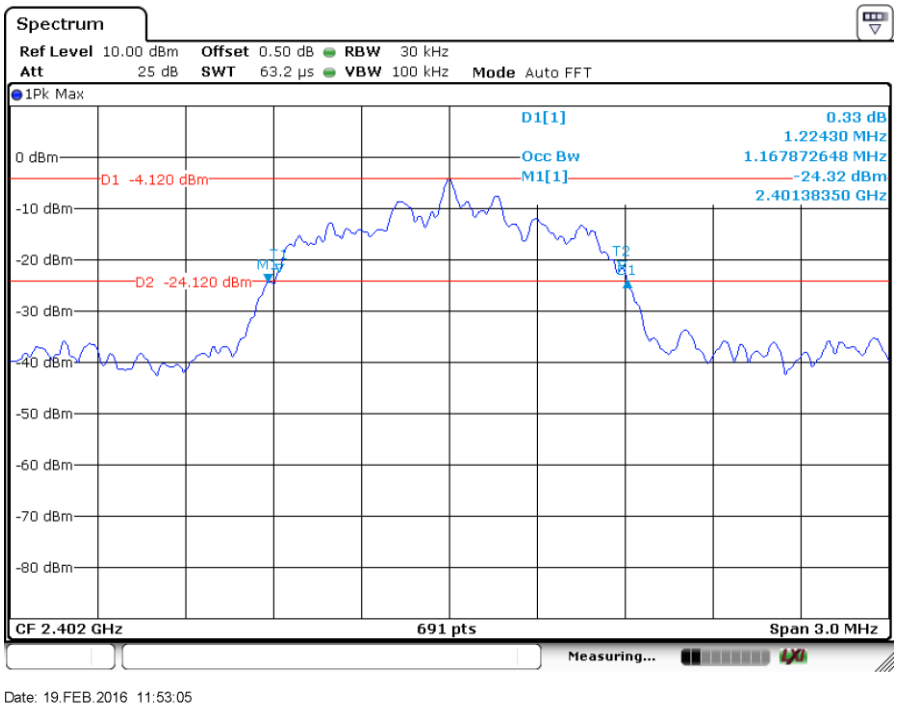
20 dB bandwidth and 99% Occupied Bandwidth

Bluetooth Mode 8DPSK Modulation test result

Frequency MHz	20 dB Bandwidth kHz	99% Bandwidth kHz	Limit kHz	Result
2402	1224.3	1167.9	--	Pass
2441	1202.6	1167.9	--	Pass
2480	1206.9	1167.9	--	Pass

2402MHz



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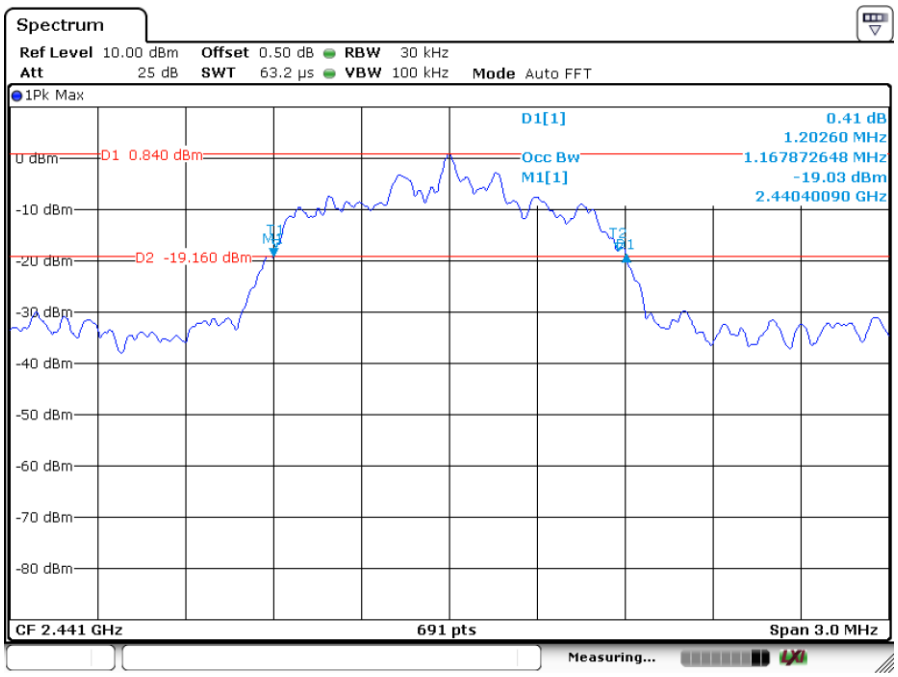
2441MHz



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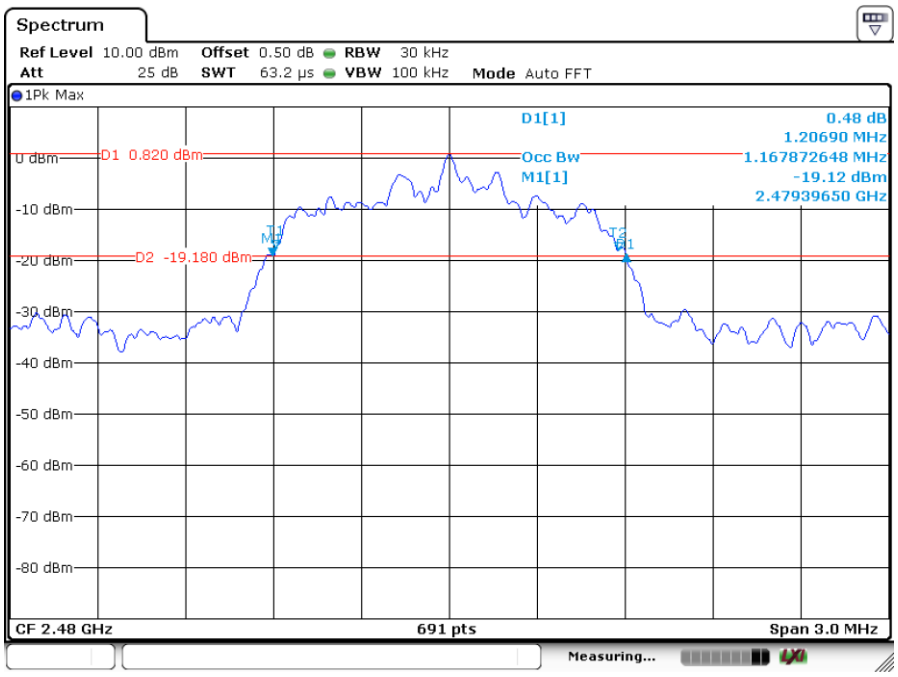
2480MHz



Date: 19.FEB.2016 11:50:50

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9.4 Carrier Frequency Separation

Test Method

1. Use the following spectrum analyzer settings:
   Span = wide enough to capture the peaks of two adjacent channels, RBW ≥ 1% of the span, VBW) ≥RBW, Sweep = auto, Detector function = peak
2. By using the Max-Hold function record the separation of two adjacent channels.
3. Measure the frequency difference of these two adjacent channels by spectrum analyzer marker function.
4. Repeat above procedures until all frequencies measured were complete.

Limit

Limit kHz
≥25KHz or 2/3 of the 20 dB bandwidth which is greater

GFSK Modulation Limit

Frequency MHz	2/3 of 20 dB Bandwidth kHz
2402	622.27
2441	593.33
2480	593.33

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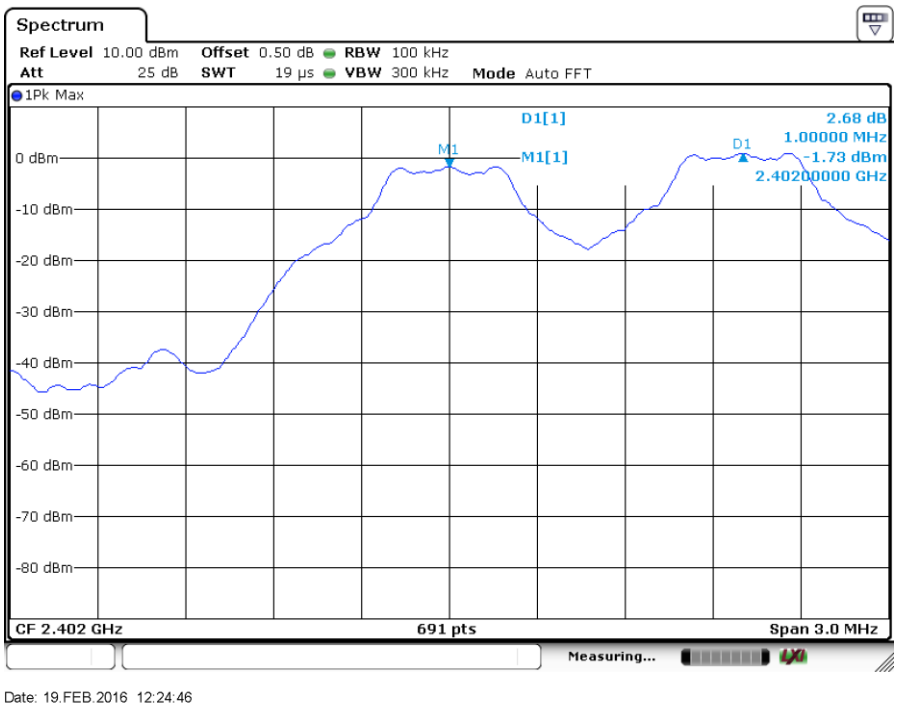
Carrier Frequency Separation

Test result: The measurement was performed with the typical configuration (normal hopping status), here GFSK modulation mode was used to show compliance.

GFSK Modulation test result

Frequency MHz	Carrier Frequency Separation kHz	Result
2402	1000.0	Pass
2441	1000.0	Pass
2480	1000.0	Pass

Low Channel



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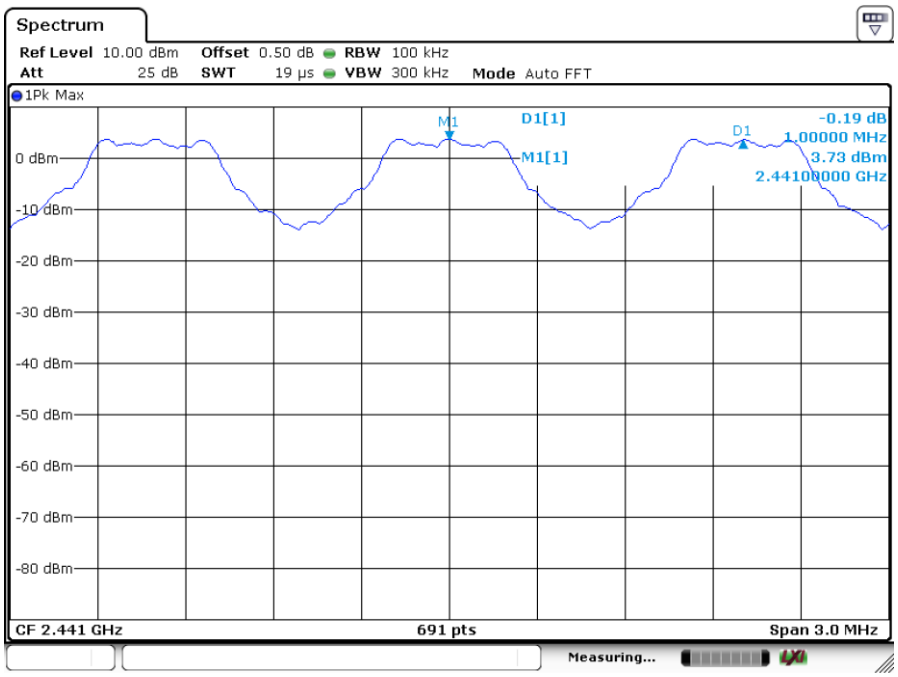
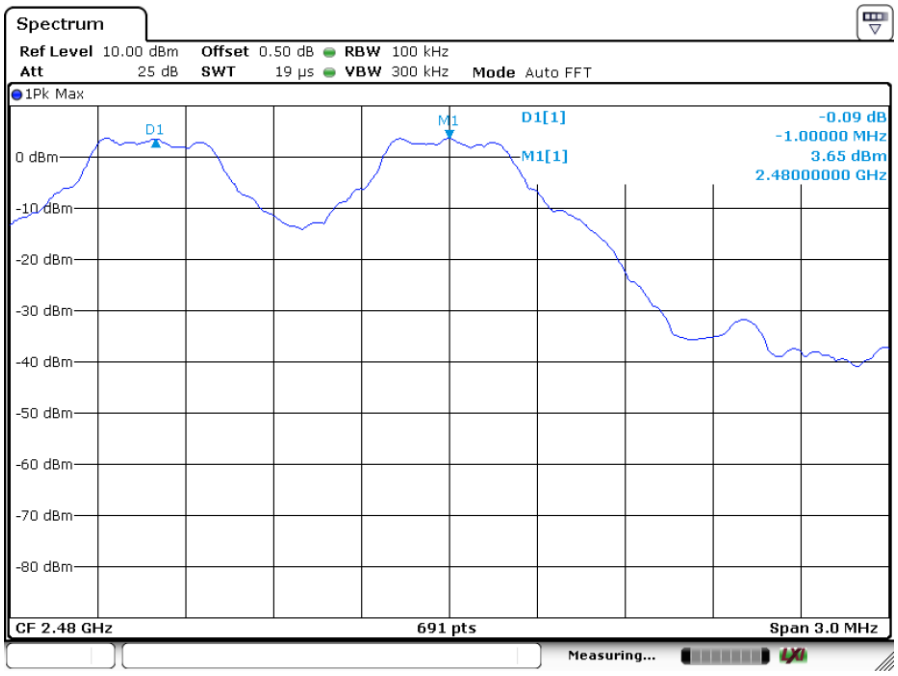
Middle channel



Date: 19.FEB.2016 12:25:32

High Channel



Date: 19.FEB.2016 12:26:08

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9.5 Number of hopping frequencies

Test Method

1. Use the following spectrum analyzer settings:
   Span = wide enough to capture the peaks of two adjacent channels, RBW ≥ 1% of the span, VBW) ≥RBW, Sweep = auto, Detector function = peak
2. Set the spectrum analyzer on Max-Hold Mode, and then keep the EUT in hopping mode.
3. Record all the signals from each channel until each one has been recorded.
4. Repeat above procedures until all frequencies measured were complete.

Limit

Limit number
≥ 15

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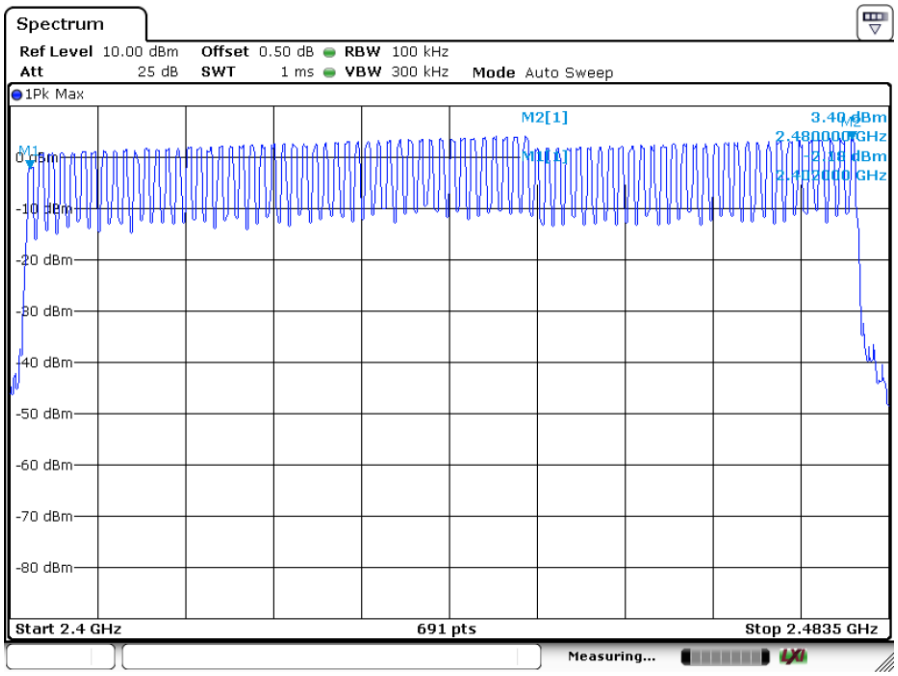
Number of hopping frequencies

Test result: The measurement was performed with the typical configuration (normal hopping status), and the total hopping channels is constant for the all modulation mode according with the Bluetooth Core Specification. Here GFSK modulation mode was used to show compliance.

Number of hopping frequencies	Result
79	Pass



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9.6 Dwell Time

Test Method

1. Connect EUT antenna terminal to the spectrum analyzer with a low loss cable. Equipment mode: Spectrum analyzer
2. RBW: 1MHz; VBW: 1MHz; SPAN: Zero Span
3. Adjust the center frequency of spectrum analyzer on any frequency be measured.
4. Measure the Dwell Time by spectrum analyzer Marker function.
5. Repeat above procedures until all frequencies measured were complete.

Limit

The average time of occupancy on any frequency shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

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Dwell Time

Dwell time

The maximum dwell time shall be 0.4 s.
According to the Bluetooth Core Specification, the worse result (DH5 mode) was reported to show compliance.

The Dwell Time = Burst Width * Total Hops. The detailed calculations are showed as follows:
The duration for dwell time calculation: 0.4 [s] * hopping number = 0.4 [s] * 79 [ch] = 31.6 [s*ch];

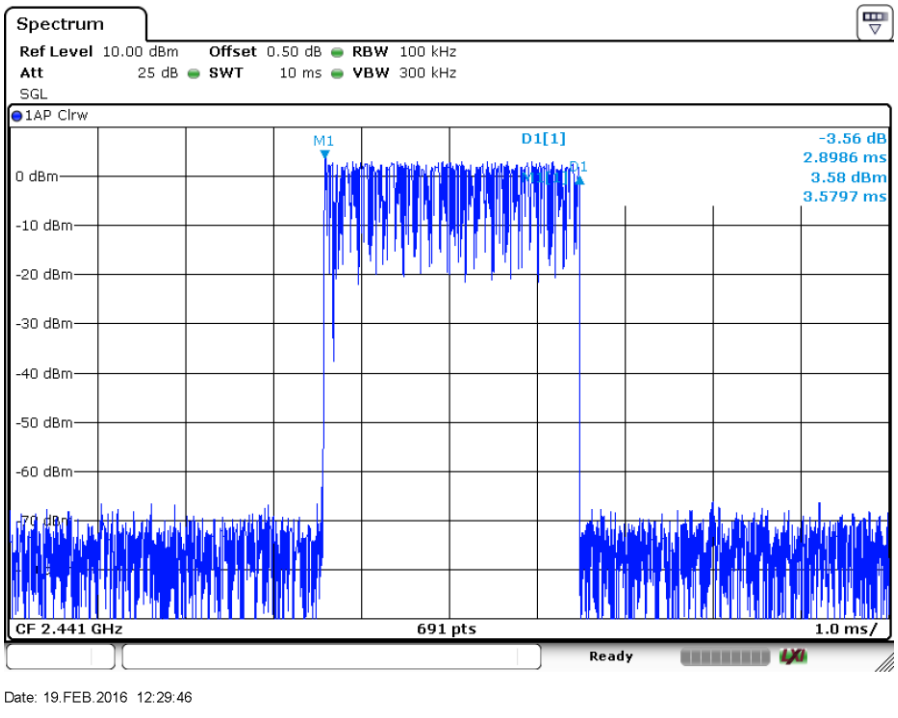
The burst width, which is directly measured, refers to the duration on one channel hop.

The maximum number of hopping channels in 31.6s for DH5=1600 / 6 / 79 *31.6=106.67

Test Result

Modulation	Mode	Reading (us)	Total Hops	Test Result (ms)	Limit (ms)	Result
GFSK	DH5	2898.6	106.67	309.28	< 400	Pass
π/4-DQPSK	2DH5	2898.6	106.67	309.28	< 400	Pass
8-DPSK	3DH5	2898.6	106.67	309.28	< 400	Pass

GFSK Modulation



DH5

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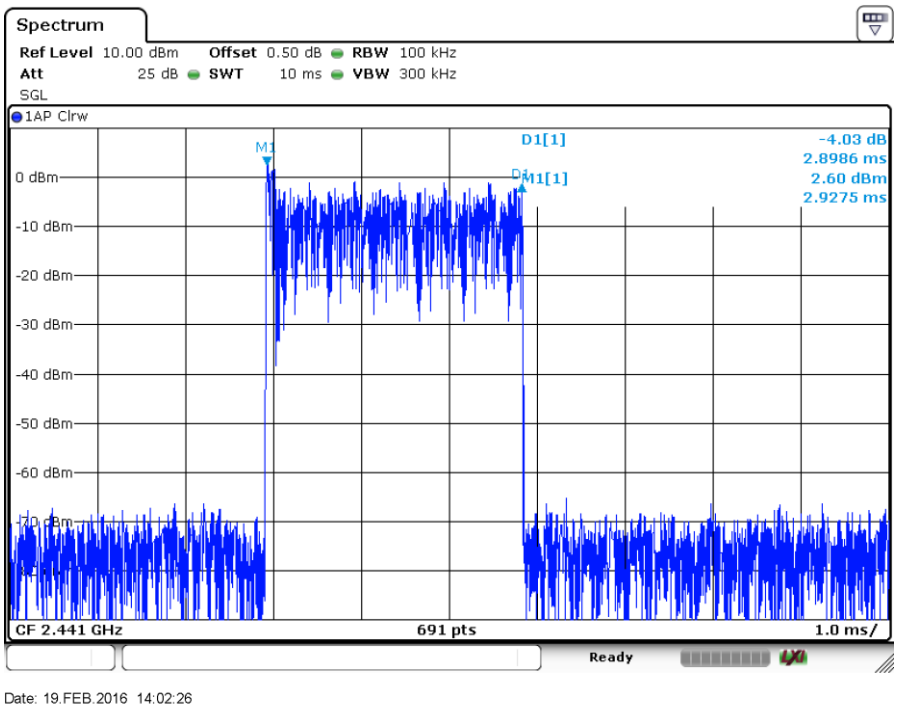
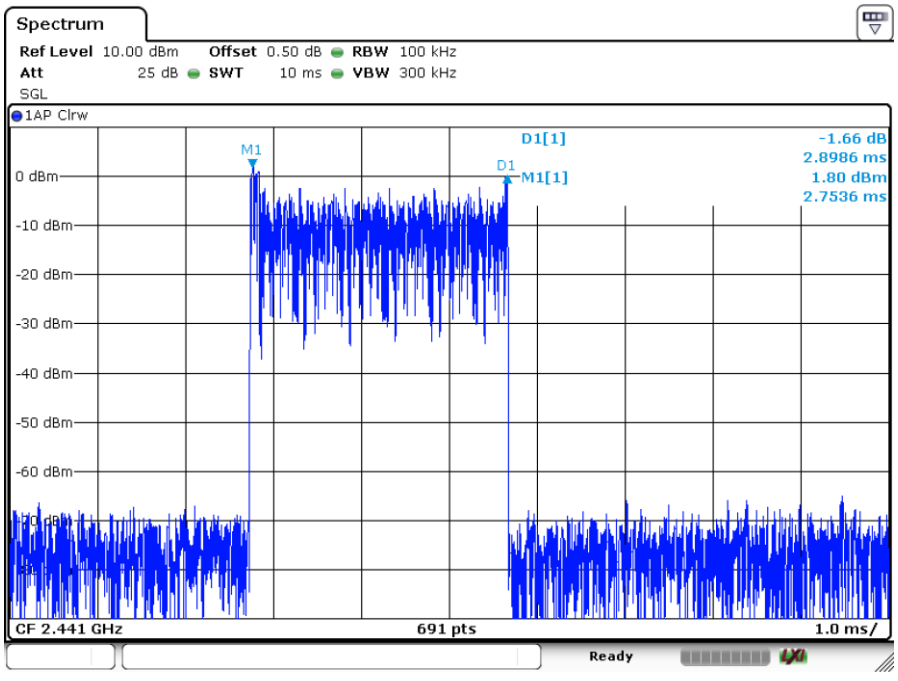
π/4-DQPSK Modulation



Date: 19.FEB.2016 14:02:26

2DH5

8-DPSK Modulation



Date: 19.FEB.2016 14:05:21

3DH5

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9.7 Spurious RF conducted emissions

Test Method

1. 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. Typically, several plots are required to cover this entire span.
   RBW = 100 kHz, VBW≥RBW, Sweep = auto, Detector function = peak, Trace = max hold
2. Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded.
3. The level displayed must comply with the limit specified in this Section. Submit these plots.
4. Repeat above procedures until all frequencies measured were complete.

Limit

Frequency Range MHz	Limit (dBc)
30-25000	-20

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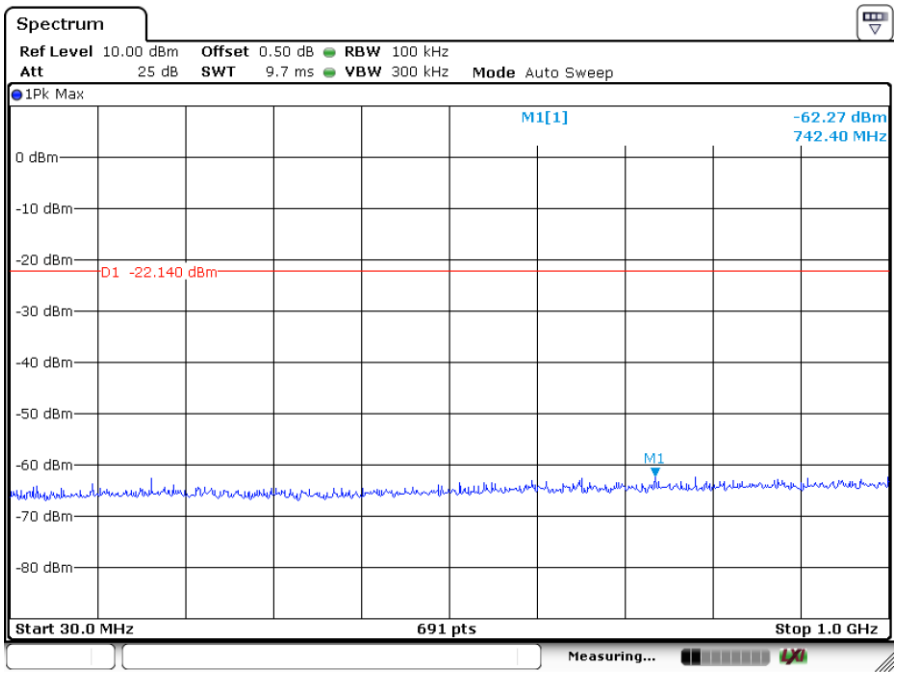
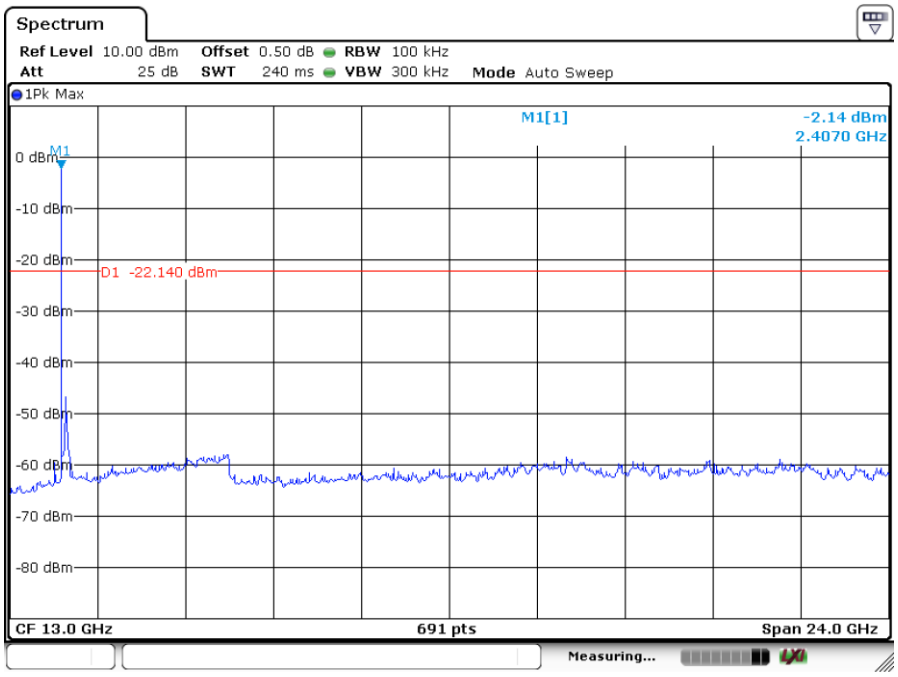
Spurious RF conducted emissions

Only the worse case (which is subject to the maximum EIRP, GFSK mode) test result is listed in the report.
BT3.0 GFSK Modulation:
2402MHz



Date: 19.FEB.2016 12:02:58



Date: 19.FEB.2016 12:02:33

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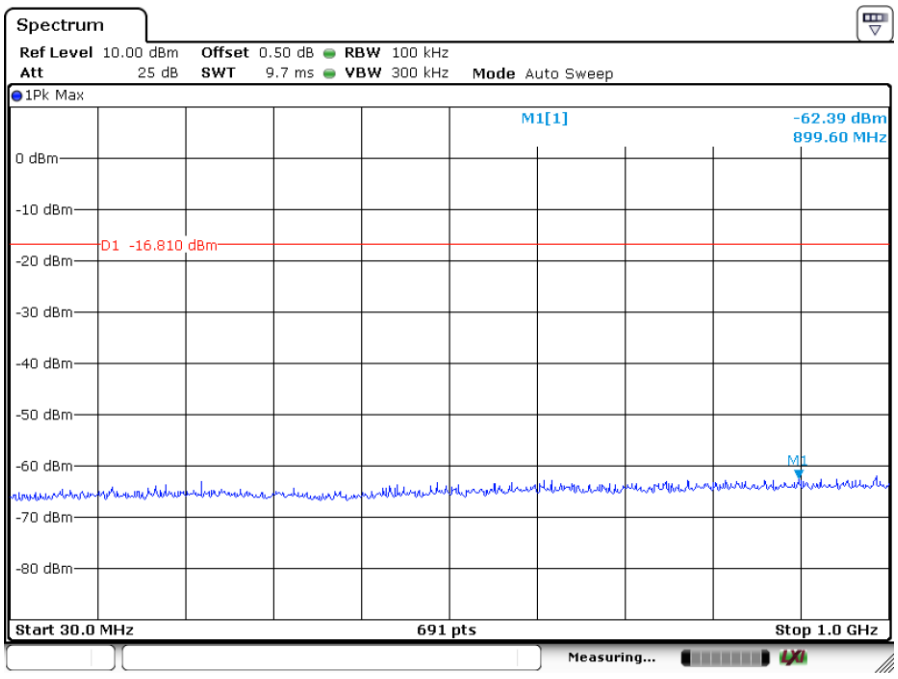
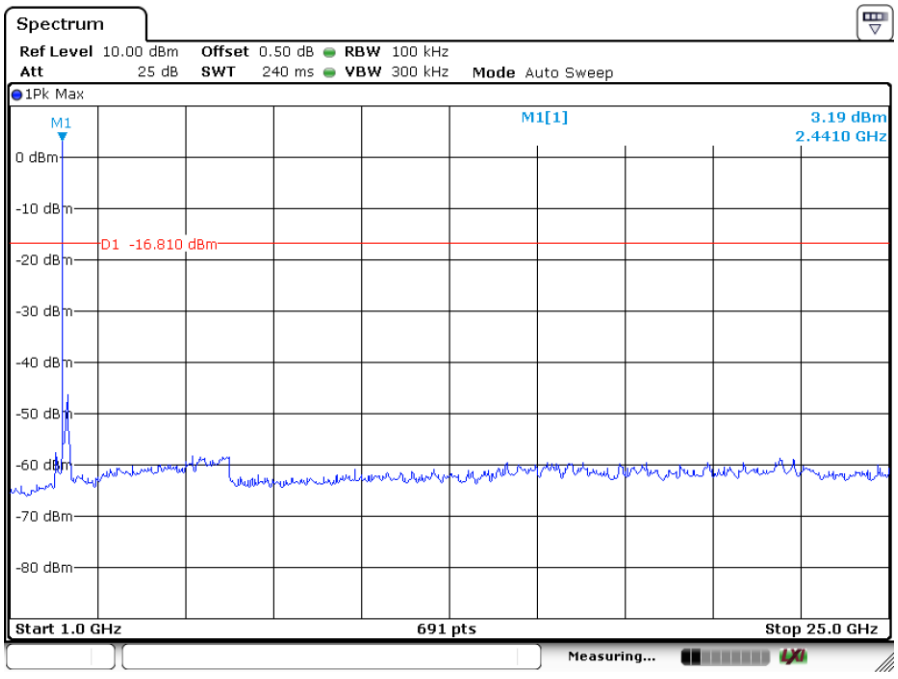
2441MHz



Date: 19.FEB.2016 12:04:53



Date: 19.FEB.2016 12:04:04

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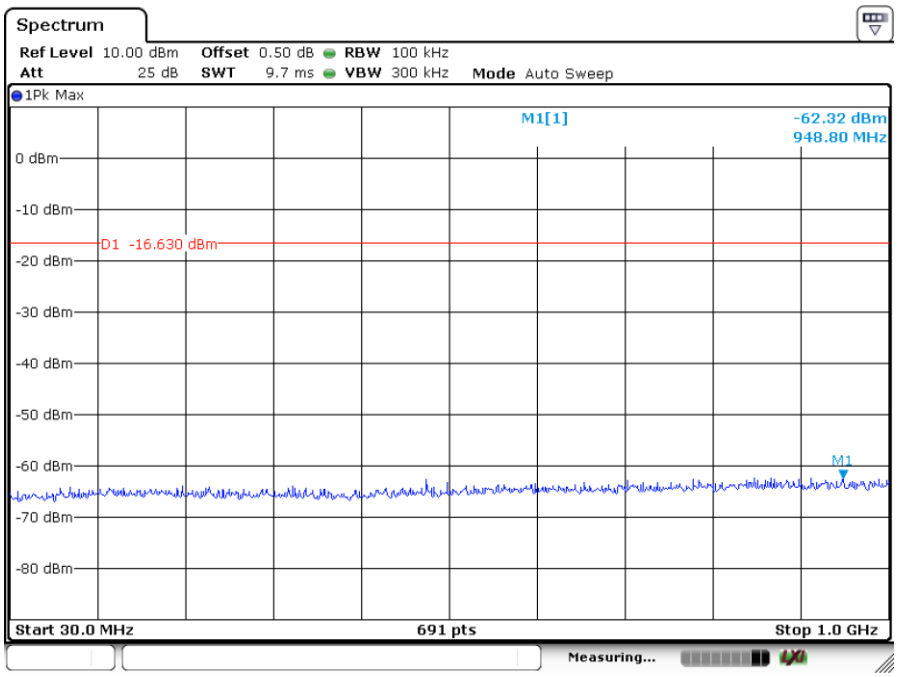
2480MHz



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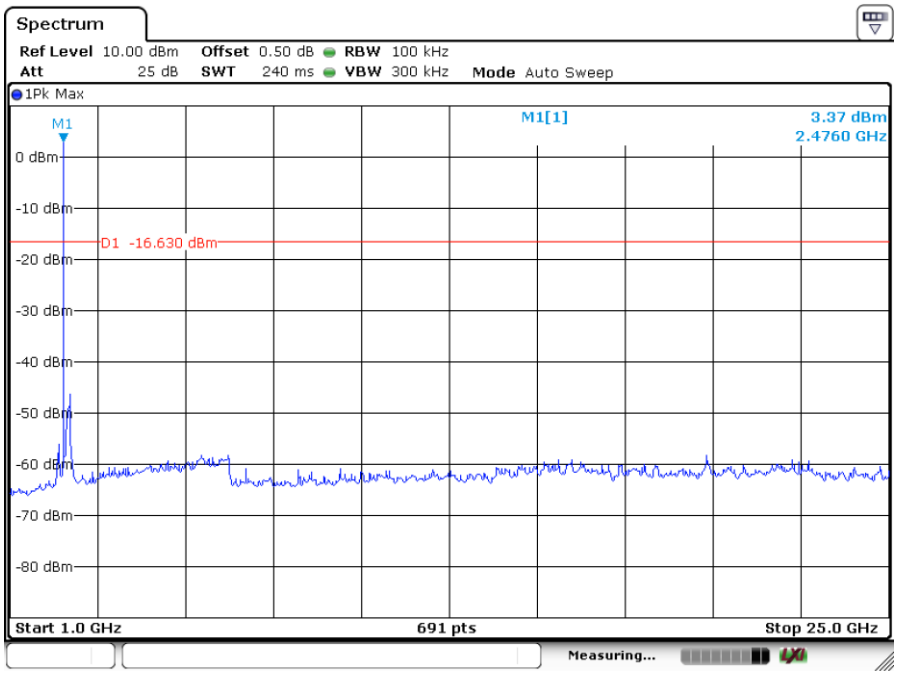

Date: 19.FEB.2016 12:10:22

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9.8 Band edge testing

Test Method

1 Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 100 kHz, VBW≥RBW, Sweep = auto, Detector function = peak, Trace = max hold
2 Allow the trace to stabilize, use the peak and delta measurement to record the result.
3 The level displayed must comply with the limit specified in this Section. .
4 Repeat the test at the hopping off and hopping on mode, submit all the plots.

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the100 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 that the transmitter demonstrates compliance with the peak conducted power limits.

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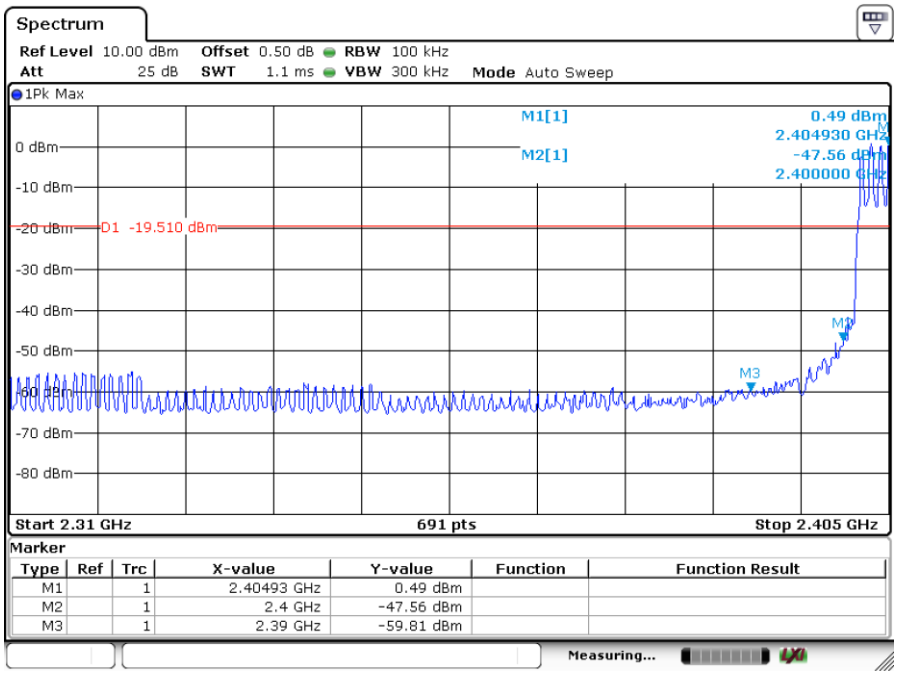
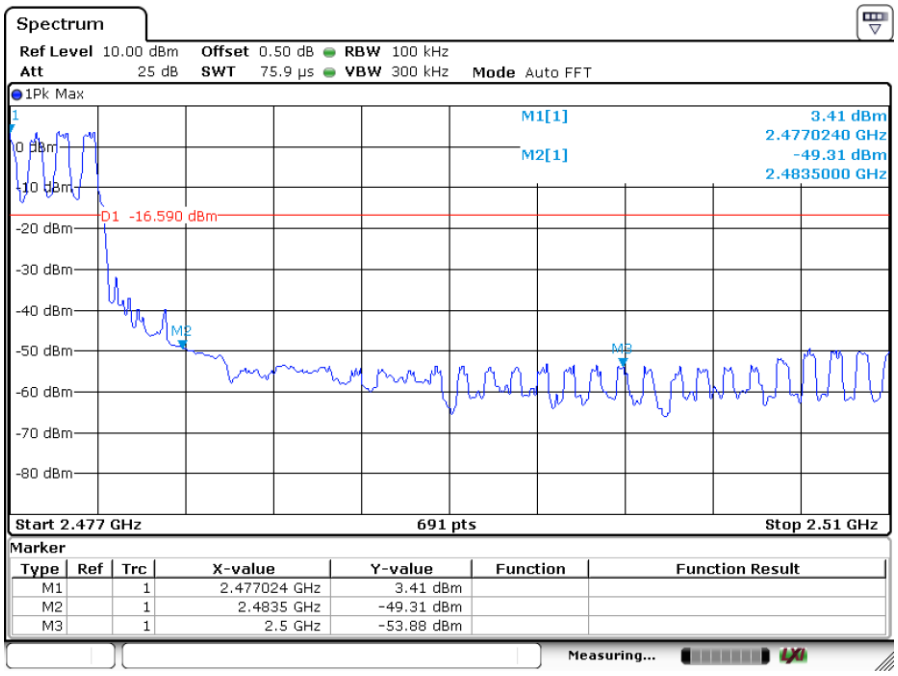
Band edge testing

BT3.0 GFSK Modulation Test Result:
Hopping on mode:



Date: 19.FEB.2016 12:21:33



Date: 19.FEB.2016 12:13:48

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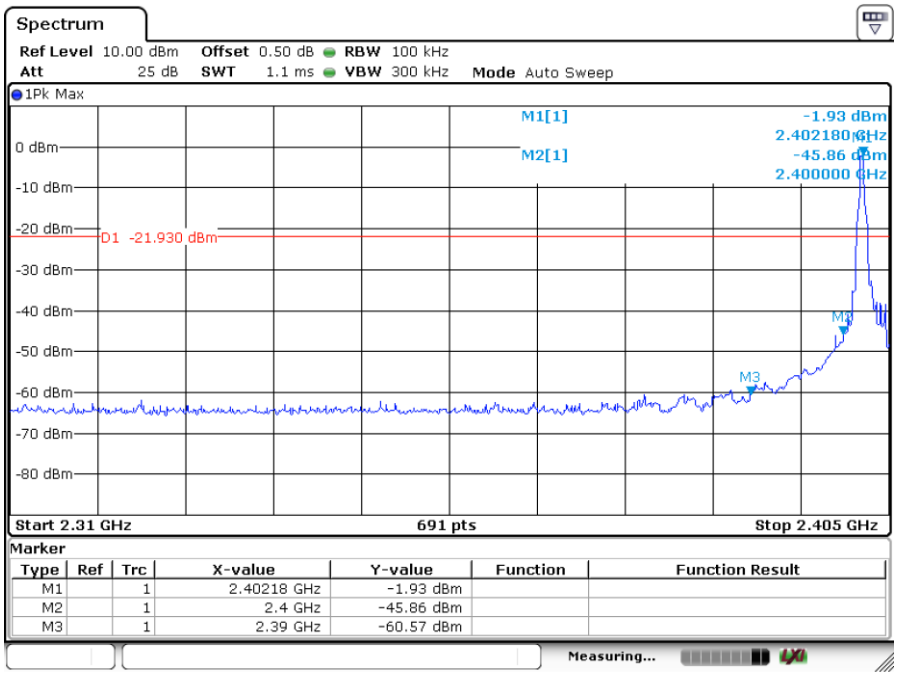
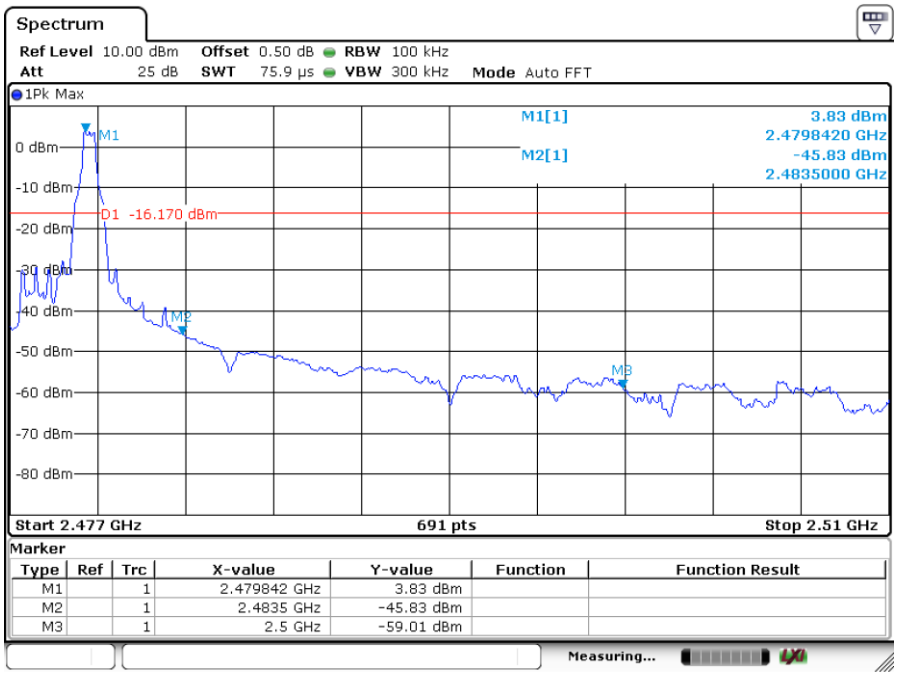
Hopping off mode:



Date: 19.FEB.2016 12:22:59



Date: 19.FEB.2016 12:12:27

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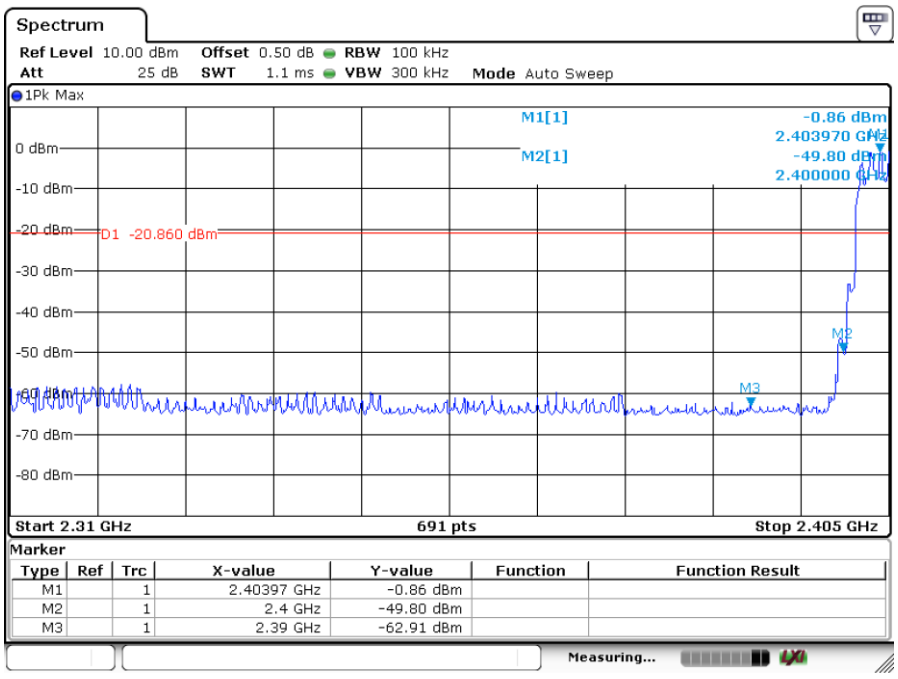
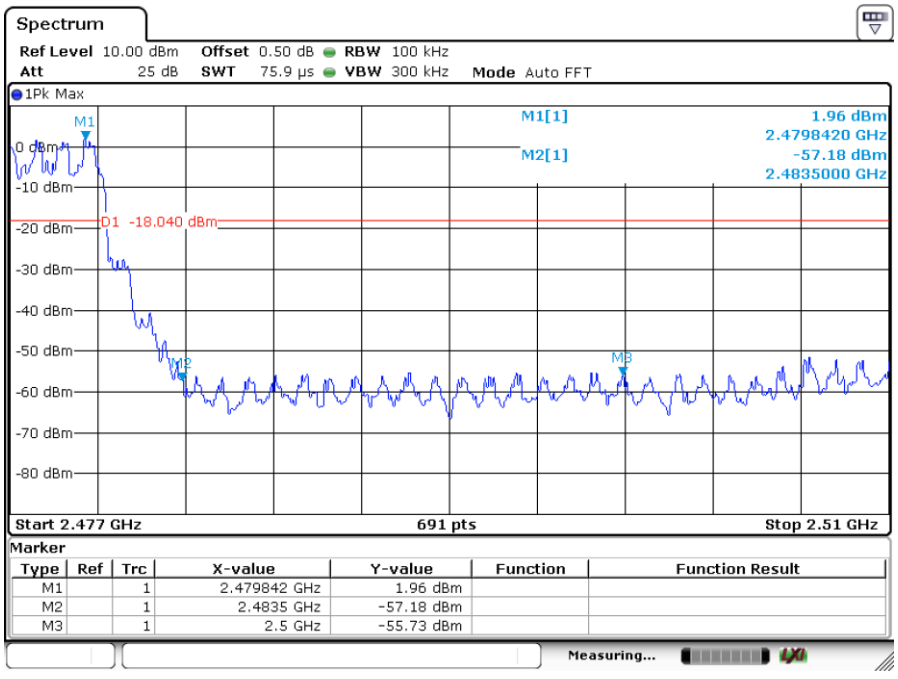
BT3.0 8-DPSK Modulation Test Result:
Hopping on mode:



Date: 19.FEB.2016 12:19:31



Date: 19.FEB.2016 12:16:04

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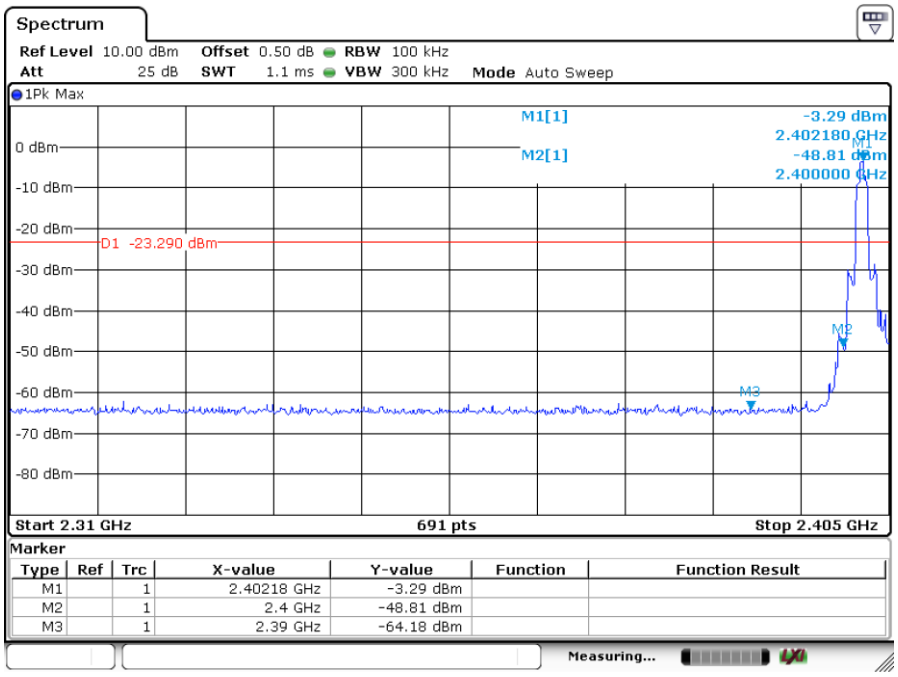
Hopping off mode:



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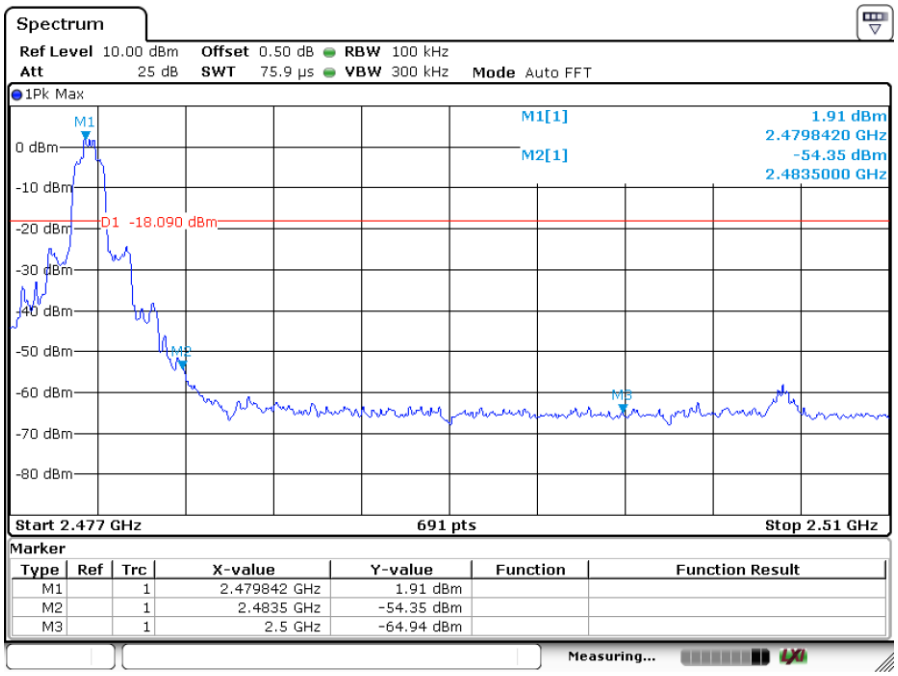

Date: 19.FEB.2016 12:17:06

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9.9 Spurious radiated emissions for transmitter

Test Method

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
3. Use the following spectrum analyzer settings:
   Span = wide enough to fully capture the emission being measured, RBW = 1 MHz for f ≥ 1GHz, 100 kHz for f < 1 GHz, VBW ≥ RBW, Sweep = auto, Detector function = peak, Trace = max hold
4. Follow the guidelines in ANSI C63.4-2009 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc.
   The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
5. 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 duty cycle 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(duty cycle/100 ms), in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Limit

The radio emission outside the operating frequency band 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. Radiated emissions which fall in the restricted bands, as defined in section15.205, must comply with the radiated emission limits specified in section 15.209.

Frequency MHz	Field Strength uV/m	Field Strength dBµV/m	Detector
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK

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Spurious radiated emissions for transmitter

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

The only worse case (which is subject to the maximum EIRP, GFSK mode) test result is listed in the report.

Transmitting spurious emission test result as below:
BT3.0 GFSK Modulation 2402MHz Test Result

Frequency Band	Frequency	Emission Level	Polarization	Limit	Detector	Margin	Result
	MHz	dBuV/m		dBµV/m		dBuV/m	
30-1000MHz	203.08	28.05	H	46	QP	17.95	Pass
	390.78	35.43	V	46	QP	10.57	Pass
1000-25000MHz	*4804.00	46.77	H	74	PK	27.23	Pass
	*7249.00	37.21	H	74	PK	36.79	Pass
	*4803.50	44.87	V	74	PK	29.13	Pass
	*7183.00	37.10	V	74	PK	36.90	Pass
	--	--	--	--	--	--	--

BT3.0 GFSK Modulation 2441MHz Test Result

Frequency Band	Frequency	Emission Level	Polarization	Limit	Detector	Margin	Result
	MHz	dBuV/m		dBµV/m		dBuV/m	
30-1000MHz	203.08	28.22	H	46	QP	17.78	Pass
	390.78	35.31	V	46	QP	10.69	Pass
1000-25000MHz	*4882.00	49.58	H	74	PK	24.42	Pass
	*7321.50	39.12	H	74	PK	34.88	Pass
	*4882.00	45.15	V	74	PK	28.85	Pass
	*7338.00	38.52	V	74	PK	35.48	Pass
	--	--	--	--	--	--	--

BT3.0 GFSK Modulation 2480MHz Test Result

Frequency Band	Frequency	Emission Level	Polarization	Limit	Detector	Margin	Result
	MHz	dBuV/m		dBµV/m		dBuV/m	
30-1000MHz	203.08	28.36	H	46	QP	17.64	Pass
	390.78	35.21	V	46	QP	10.79	Pass
1000-25000MHz	*4960.00	46.49	H	74	PK	27.51	Pass
	*7420.50	38.79	H	74	PK	35.21	Pass
	*4960.00	44.39	V	74	PK	29.61	Pass
	*7443.00	39.32	V	74	PK	34.68	Pass
	--	--	--	--	--	--	-

Remark:

(1) 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.

(2) "*" means the emission(s) appear within the restrict bands shall follow the requirement of section 15.205.

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10 Test Equipment List

Site 2:

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
Test Receiver	R & S	ESU26	100050	12-Feb-2017
Bi-conical Antenna	R & S	HK116	100242	07-Dec-2016
Log Periodic Antenna	R & S	HL223	841516/020	01-Sep-2017
Coaxial cable (50ohm)	Rosenberger	RTK081-05S-05S-10m	LA2-001-10M / 001	01-Sep-2017
Microwave amplifier (0.5-26.5GHz, 25dB gain)	HP	83017A	3123A00437	10-Jun-2016
High Pass Filter (cutoff freq. =1000MHz)	Trilithic	23042	9829213	17-Jul-2016
Horn Antenna	EMCO	3115	9002-3351	28-Oct-2017
Active Loop Antenna	EMCO	6502	9107-2651	26-Aug-2017
RF Voltage Probe	Schwarzbeck	TK9416	None	10-Feb-2017
LISN	R&S	ESH3-Z5	849876/027	15-Jun-2016
Double Shield Cable	Radiall	RG142	Nil	14-Sep-2017
Pulse Limiter	R&S	ESH3-Z2	Nil	04-Jun-2016

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11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty		
Items		**Extended Uncertainty**
Radiated Emissions	Level accuracy 30 to 200 MHz 200 to 1000 MHz 1000 to 25000 MHz	±4.68 dB ±5.73 dB ±5.57 dB
Conducted Emissions	Level accuracy 9 kHz to 30 MHz	±3.16 dB
Conducted RF Test		≤ 1 dB

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