

FCC

RF

TEST REPORT

ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
mPOS-39

ISSUED TO
Megabyte Limited

Unit 507, 5/F, Building 12W, No. 12 Science Park West Avenue, Hong Kong Science Park, Shatin, New Territories, Hong Kong



Tested by: Zhengmuyi



Report No.: BL-SZ16B0261-601

EUT Name: mPOS-39

Model Name: 39-T1

Brand Name: Myndar

Test Standard: 47 CFR Part 15 Subpart C

FCC ID: XEK-39-T1

Approved by: Liao Jianming

Test conclusion: Pass

Test Date: Nov. 23, 2016 ~ Nov. 30, 2016

Date of Issue: Jan. 10, 2017

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Revision History

| Version | Issue Date | Revisions Content |
|---------|---------------|-------------------|
| Rev. 01 | Jan. 10, 2017 | Initial Issue |

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1 ADMINISTRATIVE DATA (GENERAL INFORMATION)

1.1 Identification of the Testing Laboratory

| | |
|--------------|---|
| Company Name | Shenzhen BALUN Technology Co., Ltd. |
| Address | Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China |
| Phone Number | +86 755 6685 0100 |
| Fax Number | +86 755 6182 4271 |

1.2 Identification of the Responsible Testing Location

| | |
|---------------------------|--|
| Test Location | Shenzhen BALUN Technology Co., Ltd. |
| Address | Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China |
| Accreditation Certificate | The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1. The laboratory has been listed by US Federal Communications Commission to perform electromagnetic emission measurements. The recognition numbers of test site are 832625. The laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L6791. |
| Description | All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055 |

1.3 Laboratory Condition

| | |
|---------------------------|-------------------|
| Ambient Temperature | 20 to 25°C |
| Ambient Relative Humidity | 45% - 55% |
| Ambient Pressure | 100 kPa - 102 kPa |

1.4 Announce

- (1) The test report reference to the report template version v5.5.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

2 PRODUCT INFORMATION

2.1 Applicant Information

| | |
|-----------|--|
| Applicant | Megabyte Limited |
| Address | Unit 507, 5/F, Building 12W, No. 12 Science Park West Avenue, Hong Kong Science Park, Shatin, New Territories, Hong Kong |

2.2 Manufacturer Information

| | |
|--------------|--|
| Manufacturer | Megabyte Limited |
| Address | Unit 507, 5/F, Building 12W, No. 12 Science Park West Avenue, Hong Kong Science Park, Shatin, New Territories, Hong Kong |

2.3 Factory Information

| | |
|---------|--|
| Factory | Megabyte Limited |
| Address | Unit 507, 5/F, Building 12W, No. 12 Science Park West Avenue, Hong Kong Science Park, Shatin, New Territories, Hong Kong |

2.4 General Description for Equipment under Test (EUT)

| | |
|---|--|
| EUT Name | mPOS-39 |
| Model Name Under Test | 39-T1 |
| Series Model Name | N/A |
| Description of Model name differentiation | N/A |
| Hardware Version | N/A |
| Software Version | N/A |
| Dimensions (Approx.) | N/A |
| Weight (Approx.) | N/A |
| Network and Wireless connectivity | Bluetooth 3.0, Bluetooth 4.0 Low Energy (BLE), WIFI 802.11b, 802.11g and 802.11n (HT20/40), 802.11ac RFID |

2.5 Ancillary Equipment

| | | |
|-----------------------|----------------------|------------------------------|
| Ancillary Equipment 1 | Battery 1 | |
| | Brand Name | N/A |
| | Model No. | AVA 1206 |
| | Serial No. | N/A |
| | Capacitance | 6600 mAh |
| | Rated Voltage | 11.1 V |
| | Limit Charge Voltage | 12.6 V |
| Ancillary Equipment 2 | Battery 2 | |
| | Brand Name | N/A |
| | Model No. | ABA 1202 |
| | Serial No. | N/A |
| | Capacitance | 2500 mAh |
| | Rated Voltage | 11.1 V |
| | Limit Charge Voltage | 12.6 V |
| Ancillary Equipment 3 | Charger | |
| | Brand Name | N/A |
| | Model Name | FSP065-REB |
| | Rated Input | 100-240 V ~, 50/60 Hz, 1.5 A |
| | Rated Output | 19 V =, 3.42 A |
| Ancillary Equipment 4 | Power Line | |
| | Length(Approx.) | 1.2 m |

2.6 Technical Information

The requirement for the following technical information of the EUT was tested in this report:

| | |
|------------------------------------|--|
| Modulation Technology | FHSS |
| Modulation Type | GFSK, $\Pi/4$ -DQPSK, 8-DPSK |
| Product Type | Mobile and portable |
| Transfer Rate | DH5: 1 Mbps 2DH5: 2 Mbps 3DH5: 3 Mbps |
| Frequency Range | The frequency range used is 2400 MHz to 2483.5 MHz. |
| Number of channel | 79 (at intervals of 1 MHz) |
| Tested Channel | 0 (2402 MHz), 39 (2441 MHz), 78 (2480 MHz) |
| Antenna Type | PCB Antenna |
| Antenna Gain | 3.5 dBi (All involve the antenna gain test item, has been included in the final results) |
| Antenna System(MIMO Smart Antenna) | N/A |
| About the Product | Only the Bluetooth 3.0 was tested in this report. |

All channel was listed on the following table:

| Channel number | Freq. (MHz) |
|----------------|-------------|----------------|-------------|----------------|-------------|----------------|-------------|
| 0 | 2402 | 21 | 2423 | 42 | 2444 | 63 | 2465 |
| 1 | 2403 | 22 | 2424 | 43 | 2445 | 64 | 2466 |
| 2 | 2404 | 23 | 2425 | 44 | 2446 | 65 | 2467 |
| 3 | 2405 | 24 | 2426 | 45 | 2447 | 66 | 2468 |
| 4 | 2406 | 25 | 2427 | 46 | 2448 | 67 | 2469 |
| 5 | 2407 | 26 | 2428 | 47 | 2449 | 68 | 2470 |
| 6 | 2408 | 27 | 2429 | 48 | 2450 | 69 | 2471 |
| 7 | 2409 | 28 | 2430 | 49 | 2451 | 70 | 2472 |
| 8 | 2410 | 29 | 2431 | 50 | 2452 | 71 | 2473 |
| 9 | 2411 | 30 | 2432 | 51 | 2453 | 72 | 2474 |
| 10 | 2412 | 31 | 2433 | 52 | 2454 | 73 | 2475 |
| 11 | 2413 | 32 | 2434 | 53 | 2455 | 74 | 2476 |
| 12 | 2414 | 33 | 2435 | 54 | 2456 | 75 | 2477 |
| 13 | 2415 | 34 | 2436 | 55 | 2457 | 76 | 2478 |
| 14 | 2416 | 35 | 2437 | 56 | 2458 | 77 | 2479 |
| 15 | 2417 | 36 | 2438 | 57 | 2459 | 78 | 2480 |
| 16 | 2418 | 37 | 2439 | 58 | 2460 | - | - |
| 17 | 2419 | 38 | 2440 | 59 | 2461 | - | - |
| 18 | 2420 | 39 | 2441 | 60 | 2462 | - | - |
| 19 | 2421 | 40 | 2442 | 61 | 2463 | - | - |
| 20 | 2422 | 41 | 2443 | 62 | 2464 | - | - |

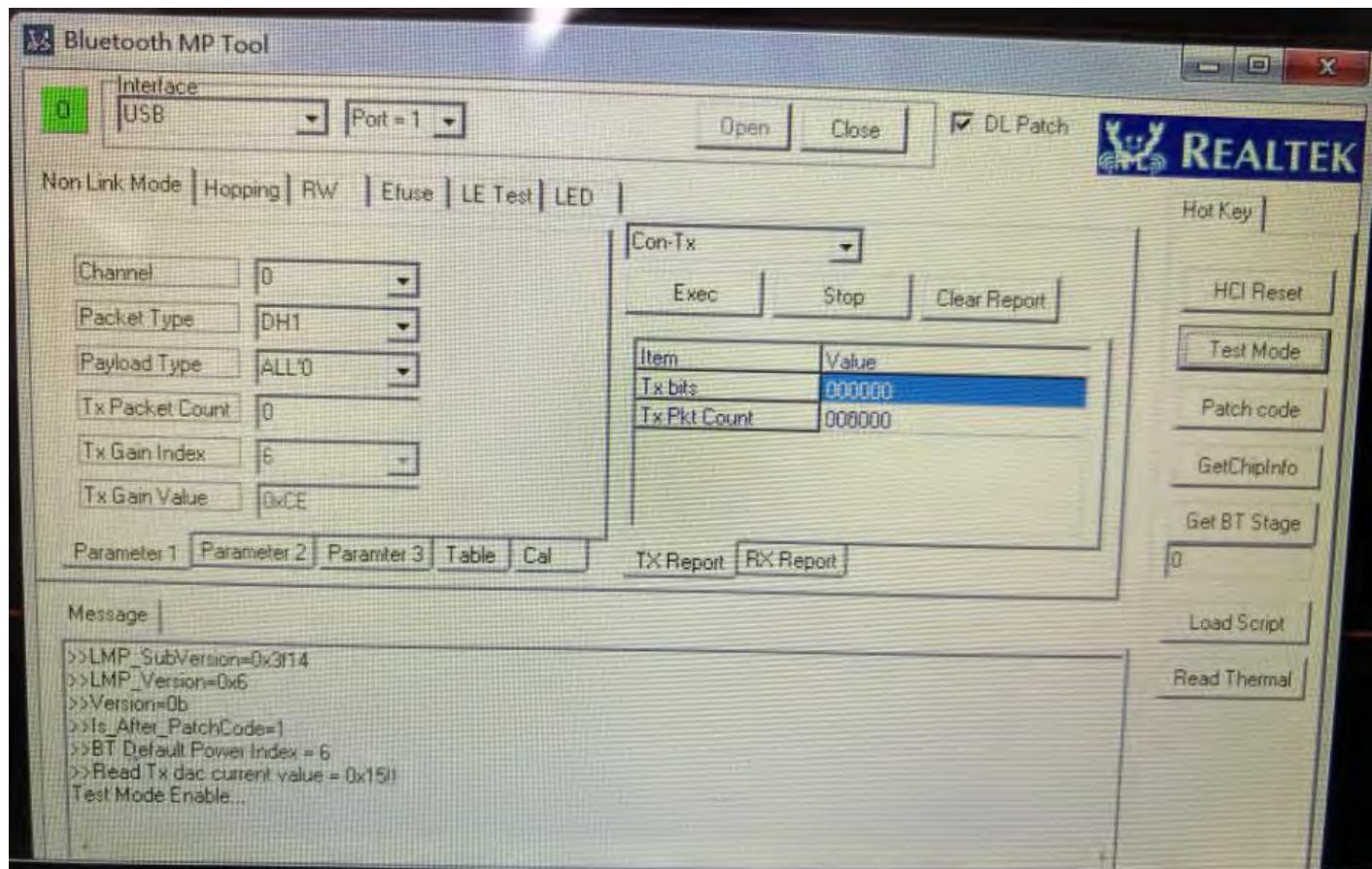
2.7 Additional Instructions

EUT Software Settings:

| | |
|------|--|
| Mode | <input checked="" type="checkbox"/> Special software is used. The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually. |
|------|--|

| Power level setup in software | | | | |
|-------------------------------|----------|-----------------|----------|---|
| Test Software Version | RTLBTAPP | | | |
| Mode | Channel | Frequency (MHz) | Soft Set | |
| DH5 | CH0 | 2402 | | TX LEVEL is built-in set parameters and cannot be changed and selected. |
| | CH39 | 2441 | | |
| | CH78 | 2480 | | |
| 2DH5 | CH0 | 2402 | | TX LEVEL is built-in set parameters and cannot be changed and selected. |
| | CH39 | 2441 | | |
| | CH78 | 2480 | | |
| 3DH5 | CH0 | 2402 | | TX LEVEL is built-in set parameters and cannot be changed and selected. |
| | CH39 | 2441 | | |
| | CH78 | 2480 | | |

Run Software:



3 SUMMARY OF TEST RESULTS

3.1 Test Standards

| No. | Identity | Document Title |
|-----|--|--|
| 1 | 47 CFR Part 15, Subpart C (10-1-15 Edition) | Miscellaneous Wireless Communications Services |
| 2 | FCC PUBLIC NOTICE DA 00-705 (Mar. 30, 2000) | Filling and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems |
| 3 | ANSI C63.10-2013 | American National Standard for Testing Unlicensed Wireless Devices |

3.2 Verdict

| No. | Description | FCC Part No. | Channel | Test Result | Verdict | Remark |
|-----|---|---------------------|-------------------------------|-------------|---------|--------|
| 1 | Antenna Requirement | 15.203 | N/A | -- | Pass | Note 1 |
| 2 | Number of Hopping Frequencies | 15.247(a) | Hopping Mode | ANNEX A.1 | Pass | Note 2 |
| 3 | Peak Output Power and E.I.R.P | 15.247(b) | Low/Middle/High | ANNEX A.2 | Pass | |
| 4 | Occupied Bandwidth | 15.247(a) | Low/Middle/High | ANNEX A.3 | Pass | Note 2 |
| 5 | Carrier Frequency Separation | 15.247(a) | Hopping Mode | ANNEX A.4 | Pass | Note 2 |
| 6 | Time of Occupancy (Dwell time) | 15.247(a) | Hopping Mode | ANNEX A.5 | Pass | Note 2 |
| 7 | Conducted Spurious Emission & Authorized-band band-edge | 15.247(d) | Low/Middle/High | ANNEX A.6 | Pass | Note 2 |
| 8 | Conducted Emission | 15.207 | Low/Middle/High | ANNEX A.7 | Pass | Note 2 |
| 9 | Radiated Spurious Emission | 15.209 15.247(d) | Hopping Mode, Low/Middle/High | ANNEX A.8 | Pass | Note 2 |
| 10 | Band Edge(Restricted-band band-edge) | 15.209 15.247(d) | Hopping Mode, Low/Middle/High | ANNEX A.9 | Pass | Note 2 |
| 11 | Receiver Spurious Emissions | -- | -- | -- | N/A | Note 3 |

Note 1: Please refer to section 5.1

Note 2: Because of the modulation of $\pi/4$ -DQPSK same as 8-DPSK, and the test results are basically the same with them, so we chose 8-DPSK as a typical representative to appear on the report. Another we will show all the modes on the RF output power test item

Note 3: Only radio communication receivers operating in stand-alone mode within the band 30-960 MHz, as well as scanner receivers, are subject to Industry Canada requirements, so this test is not applicable.

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

| | | | |
|----------------------------|-------------------------|----------------|--|
| Relative Humidity | 45% - 55% | | |
| Atmospheric Pressure | 100 kPa - 102 kPa | | |
| Temperature | NT (Normal Temperature) | +22°C to +25°C | |
| Working Voltage of the EUT | NV (Normal Voltage) | 19 V | |

4.2 Test Equipment List

| Description | Manufacturer | Model | Serial No. | Cal. Date | Cal. Due |
|-----------------------------------|-------------------------|--------------------|------------|------------|------------|
| Spectrum Analyzer | ROHDE&SCHWARZ | FSV-30 | 103118 | 2016.07.13 | 2017.07.12 |
| Vector Signal Generator | ROHDE&SCHWARZ | SMBV100A | 177746 | 2016.07.13 | 2017.07.12 |
| Signal Generator | ROHDE&SCHWARZ | SMB100A | 260592 | 2016.07.13 | 2017.07.12 |
| Switch Unit with OSP-B157 | ROHDE&SCHWARZ | OSP120 | 101270 | 2016.07.13 | 2017.07.12 |
| Spectrum Analyzer | AGILENT | E4440A | MY45304434 | 2016.11.08 | 2017.11.07 |
| EMI Receiver | ROHDE&SCHWARZ | ESRP | 101036 | 2016.07.05 | 2017.07.04 |
| LISN | SCHWARZBECK | NSLK 8127 | 8127-687 | 2016.07.05 | 2017.07.04 |
| Bluetooth Tester | ROHDE&SCHWARZ | CBT | 101005 | 2016.07.13 | 2017.07.12 |
| Power Splitter | KMW | DCPD-LDC | 1305003215 | -- | -- |
| Power Sensor | ROHDE&SCHWARZ | NRP-Z21 | 103971 | 2016.07.13 | 2017.07.12 |
| Attenuator (20 dB) | KMW | ZA-S1-201 | 110617091 | -- | -- |
| Attenuator (6 dB) | KMW | ZA-S1-61 | 1305003189 | -- | -- |
| DC Power Supply | ROHDE&SCHWARZ | HMP2020 | 018141664 | 2016.07.13 | 2017.07.12 |
| Temperature Chamber | ANGELANTIONI SCIENCE | NTH64-40A | 1310 | 2016.07.13 | 2017.07.12 |
| Test Antenna-Loop(9 kHz-30 MHz) | SCHWARZBECK | FMZB 1519 | 1519-037 | 2015.07.22 | 2017.07.21 |
| Test Antenna-Bi-Log(30 MHz-3 GHz) | SCHWARZBECK | VULB 9163 | 9163-624 | 2015.07.22 | 2017.07.21 |
| Test Antenna-Horn(1-18 GHz) | SCHWARZBECK | BBHA 9120D | 9120D-1148 | 2015.07.22 | 2017.07.21 |
| Test Antenna-Horn(15-26.5 GHz) | SCHWARZBECK | BBHA 9170 | 9170-305 | 2015.07.22 | 2017.07.21 |
| Anechoic Chamber | RAINFORD | 9m*6m*6m | N/A | 2015.02.28 | 2017.02.27 |
| Shielded Enclosure | ChangNing | CN-130701 | 130703 | -- | -- |
| Anechoic Chamber | EMC Electronic Co., Ltd | 20.10*11.60 *7.35m | N/A | 2016.08.09 | 2018.08.08 |

4.3 Measurement Uncertainty

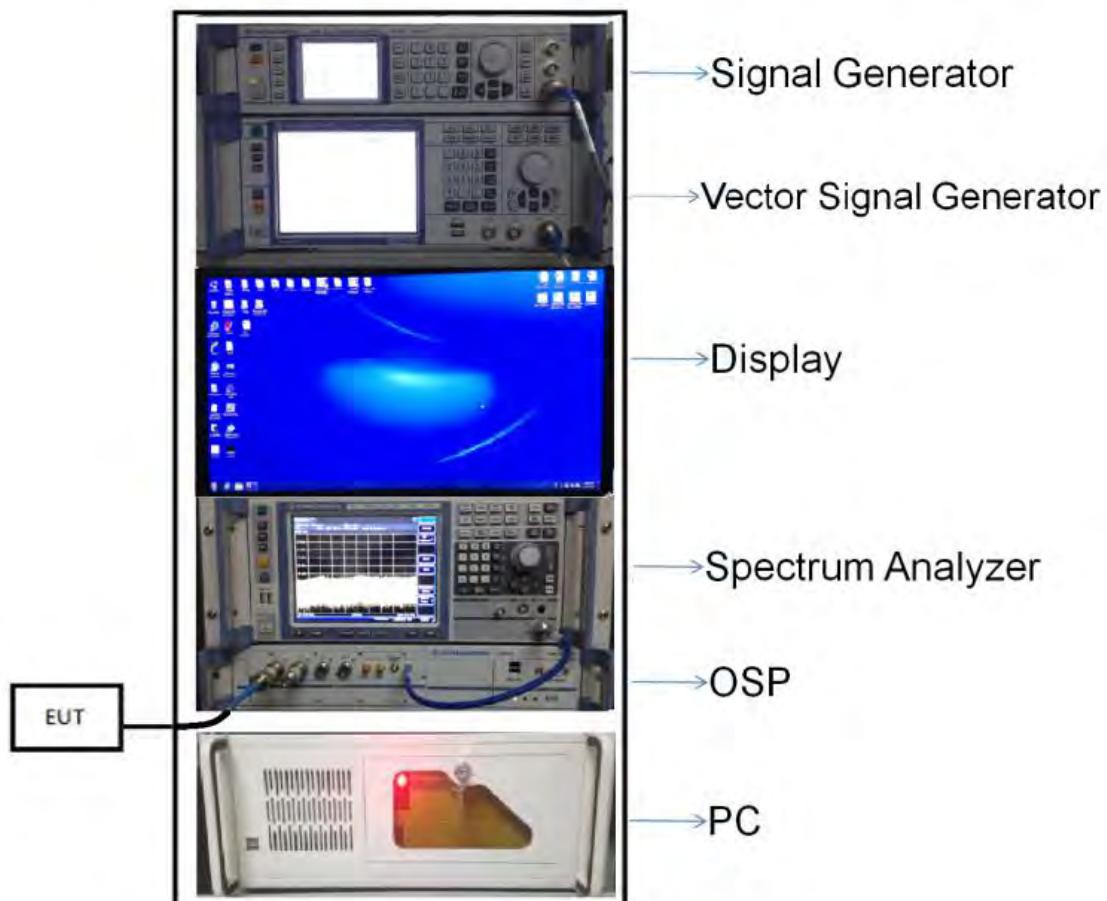
The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

| Measurement | Value |
|-----------------------------------|-----------------------|
| Occupied Channel Bandwidth | $\pm 4\%$ |
| RF output power, conducted | $\pm 1.4 \text{ dB}$ |
| Power Spectral Density, conducted | $\pm 2.5 \text{ dB}$ |
| Unwanted Emissions, conducted | $\pm 2.8 \text{ dB}$ |
| All emissions, radiated | $\pm 5.4 \text{ dB}$ |
| Temperature | $\pm 1^\circ\text{C}$ |
| Humidity | $\pm 4\%$ |

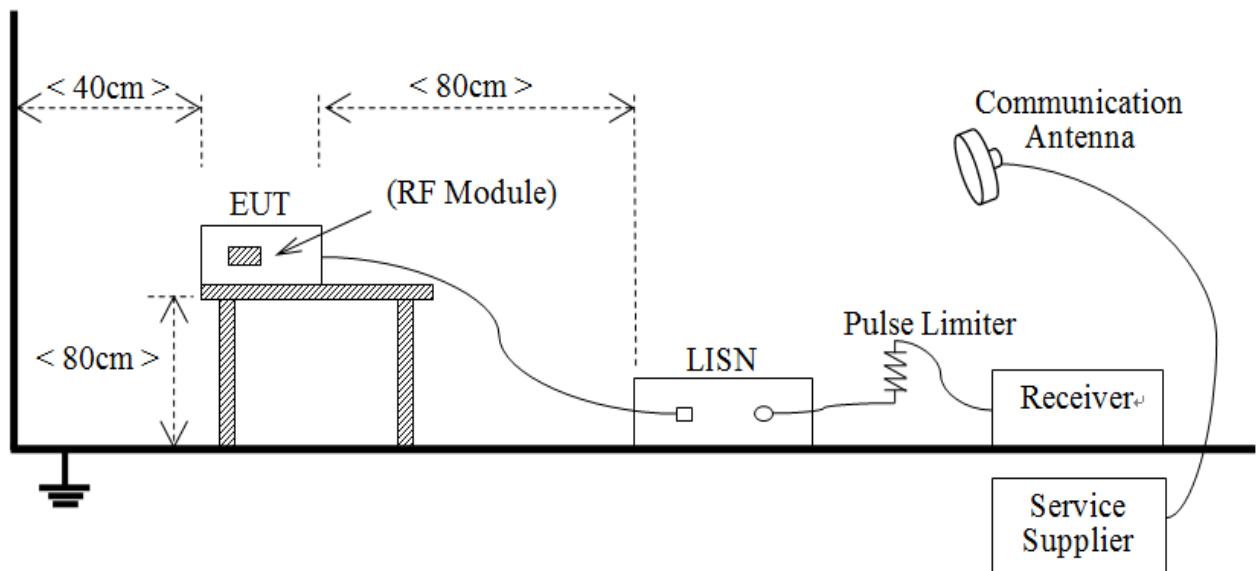
4.4 Description of Test Setup

4.4.1 For Antenna Port Test



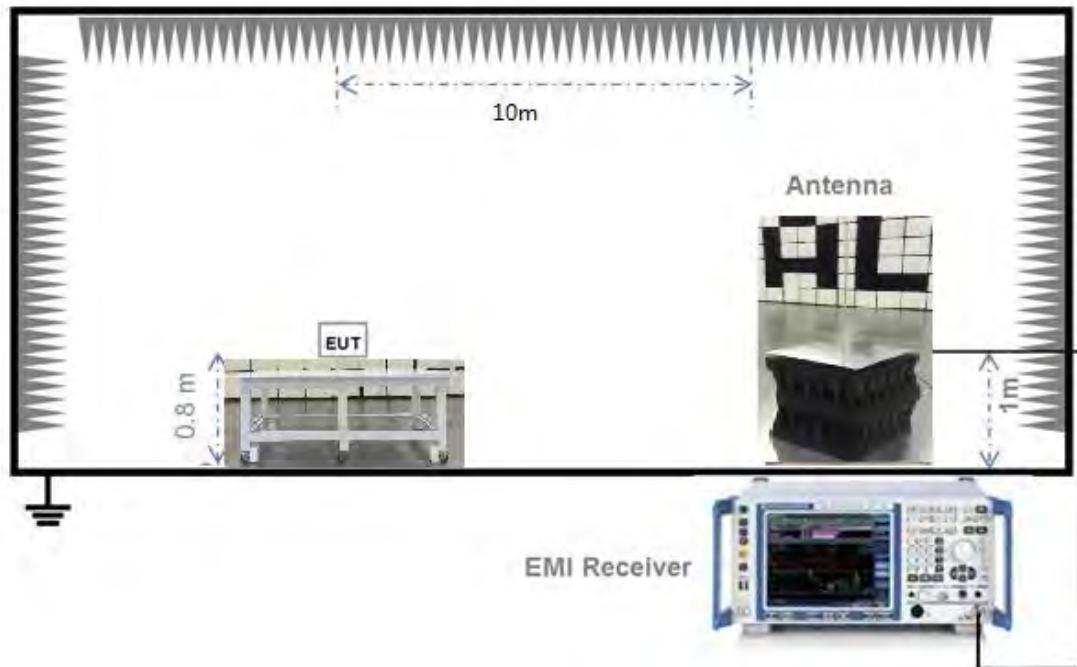
(Diagram 1)

4.4.2 For AC Power Supply Port Test



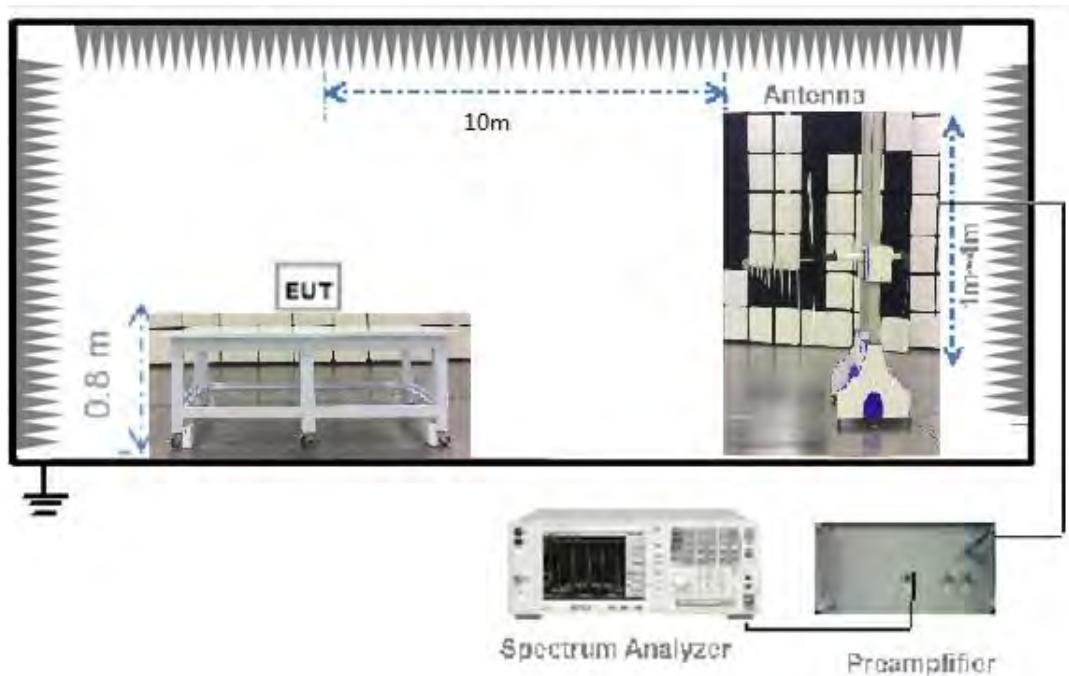
(Diagram 2)

4.4.3 For Radiated Test (Below 30 MHz)



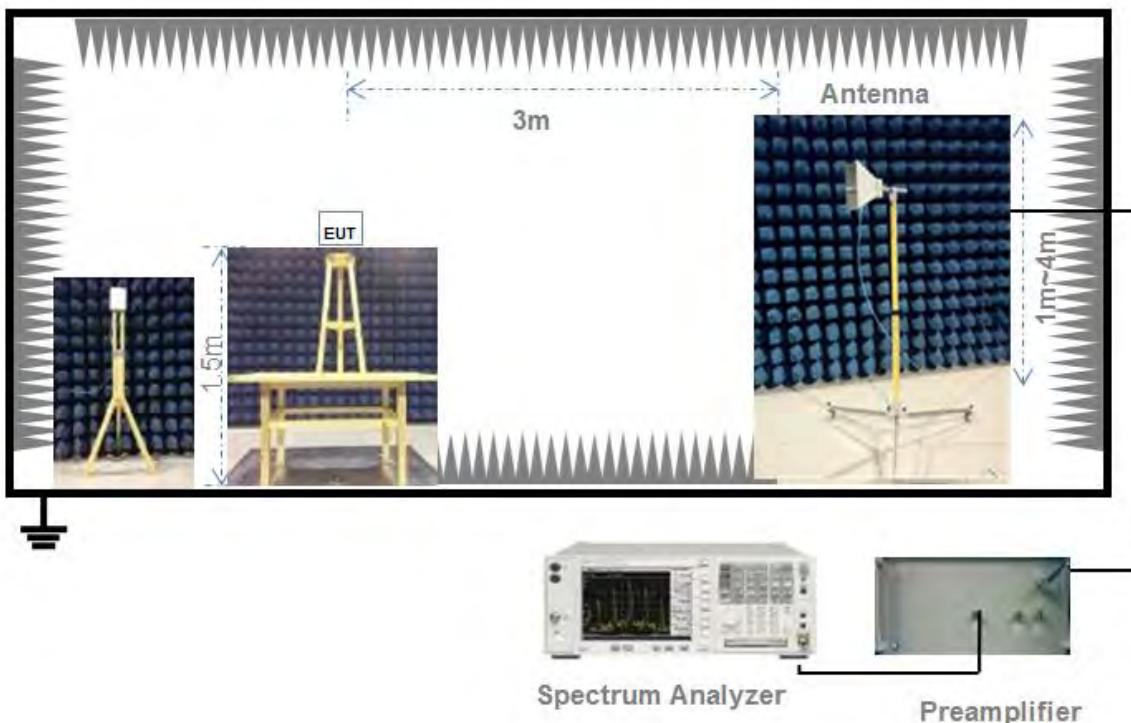
(Diagram 3)

4.4.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.4.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

4.5 Measurement Results Explanation Example

4.5.1 For conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

4.5.2 For radiated band edges and spurious emission test:

Per part 15.35(c), the EUT Bluetooth average emission level could be determined by the peak emission level applying duty cycle correction factor, to represent averaging over the whole pulse train.

The average level is derived from the peak level corrected with "Duty cycle correction factor".

Average Emission Level (dB_{UV}/m) = Peak Emission Level (dB_{UV}/m) + Duty cycle correction factor (dB)

Duty cycle correction factor (dB) = $20 * \log_{10}(\text{Duty cycle})$.

Duty cycle = on time / 100 milliseconds

On time = dwell time * hopping number in 100 ms

For example: bluetooth with dwell time 2.9 ms and 3 hops in 100 ms, then

Duty cycle correction factor (dB) = $20 * \log_{10}((2.9 * 3) / 100) = -21.21$ dB

Following shows an average computation example with duty cycle correction factor = -21.21 dB, and the peak emission level is 45.61 dB_{UV}/m.

Example:

Average Emission Level (dB_{UV}/m) = Peak Emission Level (dB_{UV}/m) + duty cycle correction factor (dB)
= 45.61 + (-21.21) = 24.4 (dB_{UV}/m)

5 TEST ITEMS

5.1 Antenna Requirements

5.1.1 Standard Applicable

FCC §15.203 & 15.247(b); RSS-247, 5.4 (6)

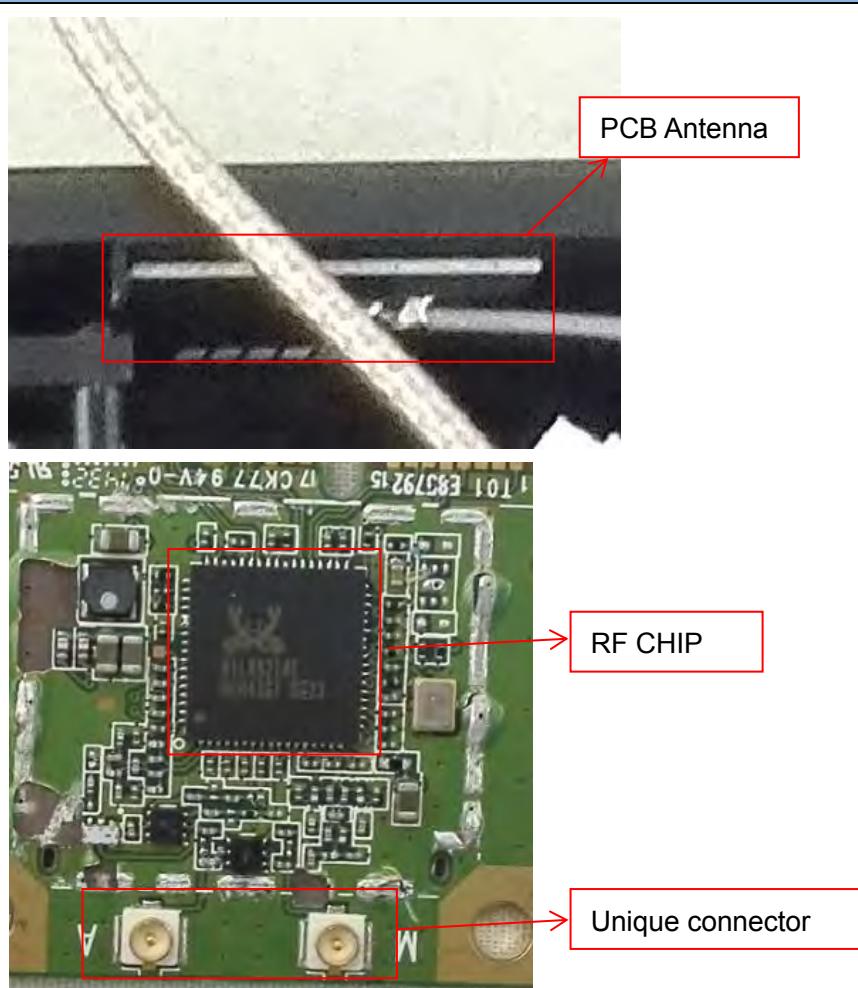
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply 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 intentional radiators 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.

If directional gain of transmitting antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. 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 FCC rule.

5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

| Protected Method | Description |
|-------------------------------|---|
| The antenna is An embedded-in | The antenna is welded on the mainboard, can't be replaced by the consumer |

| Reference Documents | Item |
|---------------------|---|
| Photo |  |

5.1.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

5.2 Number of Hopping Frequencies

5.2.1 Limit

FCC §15.247(a) (1) (iii); RSS-247, 5.1 (4)

Frequency hopping systems operating in the 2400 MHz to 2483.5 MHz bands shall use at least 15 hopping frequencies.

5.2.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.2.3 Test Procedure

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

Span = the frequency band of operation

RBW \geq 1% of the span

VBW \geq RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize

5.2.4 Test Result

Please refer to ANNEX A.1.

5.3 Peak Output Power and E.I.R.P

5.3.1 Test Limit

FCC § 15.247(b)

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

RSS-247, 5.4 (2)

For FHSs operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W and the e.i.r.p. shall not exceed 4 W if the hopset uses 75 or more hopping channels; the maximum peak conducted output power shall not exceed 0.125 W and the e.i.r.p. shall not exceed 0.5 W if the hopset uses less than 75 hopping channels (see Section 5.4(5) for exceptions).

5.3.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

The Module operates at hopping-off test mode. The lowest, middle and highest channels are selected to perform testing to verify the conducted RF output peak power of the Module.

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

Allow the trace to stabilize.

5.3.4 Test Result

Please refer to ANNEX A.2.

5.4 Occupied Bandwidth

5.4.1 Limit

FCC §15.247(a); RSS-247, 5.1 (1)

Measurement of the 20dB bandwidth of the modulated signal.

5.4.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel

RBW = in the range of 1% to 5% of the OBW

VBW \geq RBW

Sweep = auto

Detector function = peak

Trace = max hold

The EUT should be transmitting at its maximum data rate, Allow the trace to stabilize.

5.4.4 Test Result

Please refer to ANNEX A.3.

5.5 Carrier Frequency Separation

5.5.1 Limit

FCC §15.247(a); RSS-247, 5.1 (2)

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

5.5.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

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

Span = wide enough to capture the peaks of two adjacent channels

Resolution (or IF) Bandwidth (RBW) $\geq 1\%$ of the span

Video (or Average) Bandwidth (VBW) \geq RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

5.5.4 Test Result

Please refer to ANNEX A.4.

5.6 Time of Occupancy (Dwell time)

5.6.1 Limit

FCC §15.247(a); RSS-247, 5.1 (4)

Frequency hopping systems in the 2400 MHz - 2483.5 MHz band shall use at least 15 non-overlapping channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

5.6.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.6.3 Test Procedure

The average time of occupancy on any channel within the Period can be calculated with formulas:

For DH1 package type

$$\begin{aligned}\{\text{Total of Dwell}\} &= \{\text{Pulse Time}\} * (1600 / 2) / \{\text{Number of Hopping Frequency}\} * \{\text{Period}\} \\ \{\text{Period}\} &= 0.4 \text{ s} * \{\text{Number of Hopping Frequency}\}\end{aligned}$$

For DH3 package type

$$\begin{aligned}\{\text{Total of Dwell}\} &= \{\text{Pulse Time}\} * (1600 / 4) / \{\text{Number of Hopping Frequency}\} * \{\text{Period}\} \\ \{\text{Period}\} &= 0.4 \text{ s} * \{\text{Number of Hopping Frequency}\}\end{aligned}$$

For DH5 package type

$$\begin{aligned}\{\text{Total of Dwell}\} &= \{\text{Pulse Time}\} * (1600 / 6) / \{\text{Number of Hopping Frequency}\} * \{\text{Period}\} \\ \{\text{Period}\} &= 0.4 \text{ s} * \{\text{Number of Hopping Frequency}\}\end{aligned}$$

The lowest, middle and highest channels are selected to perform testing to record the dwell time of each occupation measured in this channel, which is called Pulse Time here.

5.6.4 Test Result

Please refer to ANNEX A.5

5.7 Conducted Spurious Emission & Authorized-band band-edge

5.7.1 Limit

FCC §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.

5.7.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.7.3 Test Procedure

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 \geq RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize

5.7.4 Test Result

Please refer to ANNEX A.6.

5.8 Conducted Emission

5.8.1 Limit

FCC §15.207; RSS-GEN, 8.8

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

| Frequency range (MHz) | Conducted Limit (dB μ V) | |
|--------------------------|------------------------------|----------|
| | Quai-peak | Average |
| 0.15 - 0.50 | 66 to 56 | 56 to 46 |
| 0.50 - 5 | 56 | 46 |
| 0.50 - 30 | 60 | 50 |

5.8.2 Test Setup

See section 4.4.2 for test setup description for the AC power supply port. The photo of test setup please refer to ANNEX B.

5.8.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

5.8.4 Test Result

Please refer to ANNEX A.7.

5.9 Radiated Spurious Emission

5.9.1 Limit

FCC §15.209&15.247(d); RSS-247, 5.5

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency (MHz) | Field Strength (μ V/m) | Measurement Distance (m) |
|-----------------|-----------------------------|--------------------------|
| 0.009 - 0.490 | 2400/F(kHz) | 300 |
| 0.490 - 1.705 | 24000/F(kHz) | 30 |
| 1.705 - 30.0 | 30 | 30 |
| 30 - 88 | 100 | 3 |
| 88 - 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| Above 960 | 500 | 3 |

Note:

1. Field Strength ($\text{dB}\mu\text{V/m}$) = $20 \times \log[\text{Field Strength } (\mu\text{V/m})]$.
2. In the emission tables above, the tighter limit applies at the band edges.
3. For Above 1000 MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
4. For above 1000 MHz, limit field strength of harmonics: 54dB μ V/m@3m (AV) and 74dB μ V/m@3m (PK).

5.9.2 Test Setup

See section 4.4.3 to 4.4.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.9.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW \geq RBW

Sweep = auto

Detector function = peak

Trace = max hold

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

5.9.4 Test Result

Please refer to ANNEX A.8.

5.10 Band Edge (Restricted-band band-edge)

5.10.1 Limit

FCC §15.209&15.247(d)

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

5.10.2 Test Setup

See section 4.4.3 to 4.4.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.10.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW \geq RBW

Sweep = auto

Detector function = peak

Trace = max hold

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

5.10.4 Test Result

Please refer to ANNEX A.9.

ANNEX A TEST RESULT

A.1 Number of Hopping Frequency

Test Data

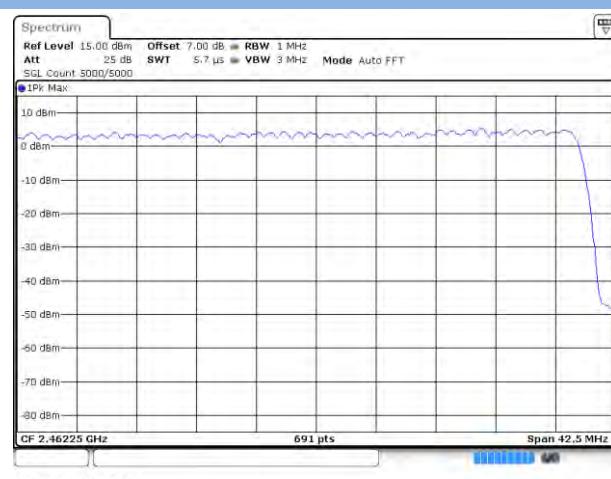
| Test Mode | Frequency Block (MHz) | Measured Channel Numbers | Min. Limit | Verdict |
|-----------|-----------------------|--------------------------|------------|---------|
| GFSK | 2400 - 2483.5 | 79 | 15 | Pass |
| 8-DPSK | 2400 - 2483.5 | 79 | 15 | Pass |

Test plots

GFSK 2.4 GHz ~ 2.4415 GHz



GFSK 2.4415 GHz ~ 2.4835 GHz



8-DPSK 2.4 GHz ~ 2.4415 GHz



8-DPSK 2.4415 GHz ~ 2.4835 GHz



A.2 Peak Output Power and E.I.R.P

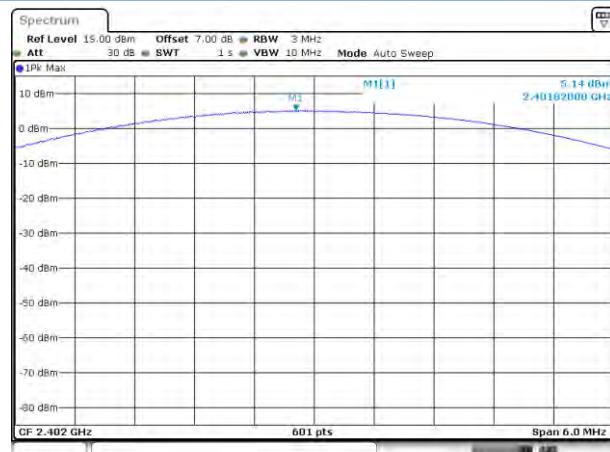
Peak Power Test Data

| Channel | Measured Output Peak Power | | Limit | | Verdict | |
|---------|----------------------------|------|-------|------|---------|--|
| | GFSK | | dBm | mW | | |
| | dBm | mW | | | | |
| Low | 5.14 | 3.27 | | | Pass | |
| Middle | 3.51 | 2.24 | 30 | 1000 | Pass | |
| High | 4.71 | 2.96 | | | Pass | |

| Channel | Measured Output Peak Power | | | | Limit | | Verdict | |
|---------|----------------------------|------|--------|------|-------|-----|---------|--|
| | Π/4-DQPSK | | 8-DPSK | | dBm | mW | | |
| | dBm | mW | dBm | mW | | | | |
| Low | 6.31 | 4.28 | 6.66 | 4.63 | | | Pass | |
| Middle | 4.83 | 3.04 | 5.14 | 3.27 | 21 | 125 | Pass | |
| High | 6.14 | 4.11 | 6.46 | 4.43 | | | Pass | |

Test plots

GFSK LOW CHANNEL



Date: 24 NOV 2016 16:08:46

GFSK MIDDLE CHANNEL



Date: 24 NOV 2016 16:13:07

GFSK HIGH CHANNEL



Date: 24 NOV 2016 16:16:34

$\Pi/4$ -DQPSK LOW CHANNEL

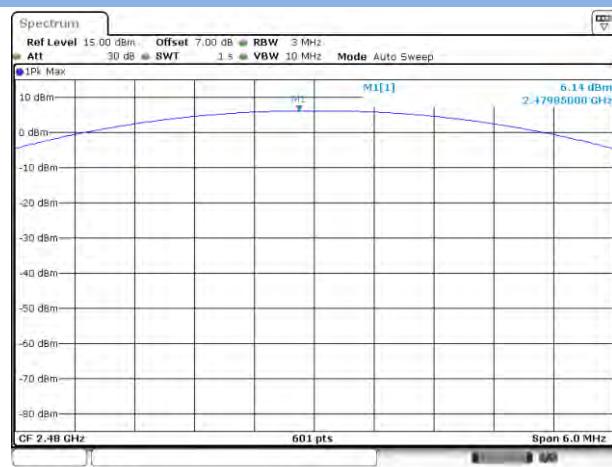


Date: 24 NOV 2016 16:07:14

$\Pi/4$ -DQPSK MIDDLE CHANNEL



Date: 24 NOV 2016 16:07:38

Π/4-DQPSK HIGH CHANNEL


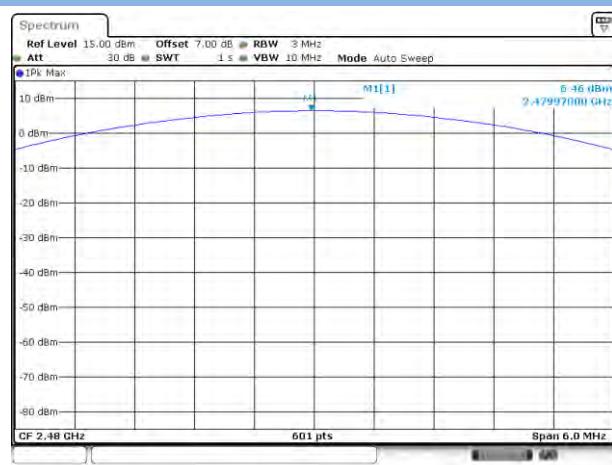
Date: 24 NOV 2016 16:07:57

8-DPSK LOW CHANNEL


Date: 24 NOV 2016 16:21:01

8-DPSK MIDDLE CHANNEL


Date: 24 NOV 2016 16:25:18

8-DPSK HIGH CHANNEL


Date: 24 NOV 2016 16:29:25

A.3 20 dB and 99% bandwidth

Test Data

| GFSK | | |
|---------|-----------------------|---------------------|
| Channel | 20 dB Bandwidth (MHz) | 99% Bandwidth (kHz) |
| Low | 1.030273 | 0.907381 |
| Middle | 1.034668 | 0.907381 |
| High | 1.034668 | 0.911722 |

| 8-DPSK | | |
|---------|-----------------------|---------------------|
| Channel | 20 dB Bandwidth (MHz) | 99% Bandwidth (MHz) |
| Low | 1.269531 | 1.150507 |
| Middle | 1.265137 | 1.150507 |
| High | 1.273926 | 1.150507 |

Test plots

20 dB bandwidth

GFSK LOW CHANNEL



GFSK MIDDLE CHANNEL



GFSK HIGH CHANNEL



8-DPSK LOW CHANNEL



8-DPSK MIDDLE CHANNEL



8-DPSK HIGH CHANNEL



99% bandwidth

GFSK LOW CHANNEL



GFSK MIDDLE CHANNEL



GFSK HIGH CHANNEL



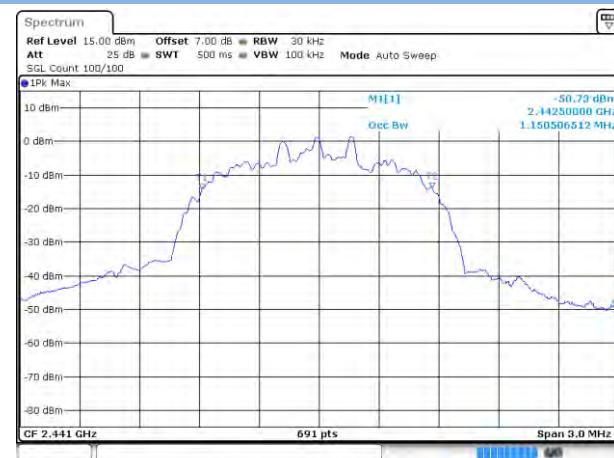
Date: 24.NOV.2016 16:18:27

8-DPSK LOW CHANNEL



Date: 24.NOV.2016 16:22:53

8-DPSK MIDDLE CHANNEL



Date: 24.NOV.2016 16:27:11

8-DPSK HIGH CHANNEL



Date: 24.NOV.2016 16:31:18

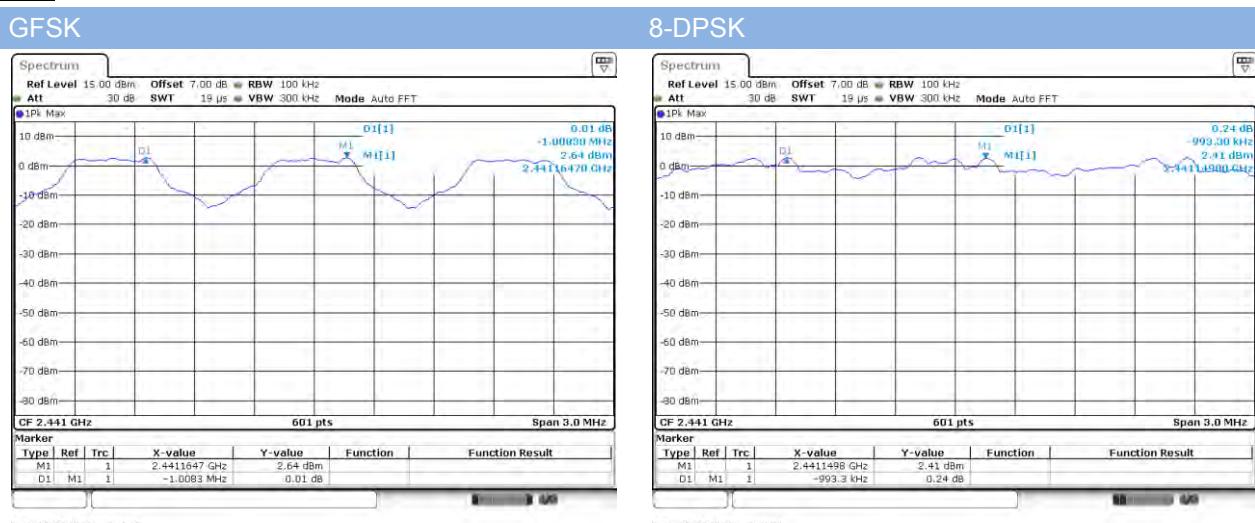
A.4 Hopping Frequency Separation

Test Data

Note: The systems operate with an output power no greater than 125 mw, The data provided in the section A.2.

| Mode | Frequency separation (MHz) | Max 20 dB Bandwidth (MHz) | Two-thirds of the 20 dB bandwidth (MHz) | Verdict |
|--------|----------------------------|---------------------------|---|---------|
| GFSK | 1.0083 | 1.035 | 0.690 | Pass |
| 8-DPSK | 0.9933 | 1.274 | 0.849 | Pass |

Test Plots

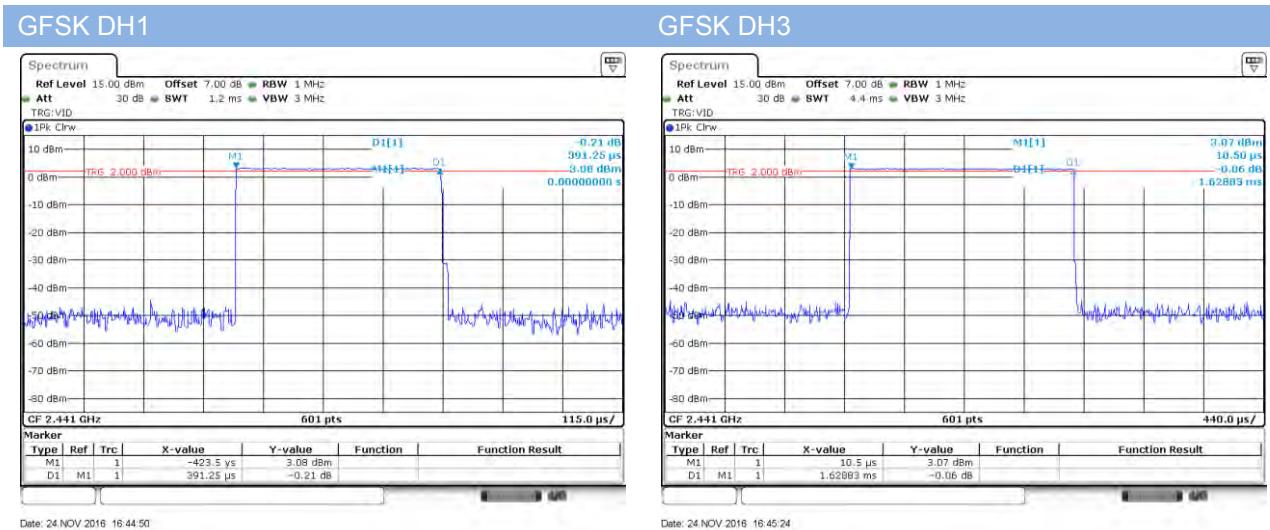


A.5 Average Time of Occupancy

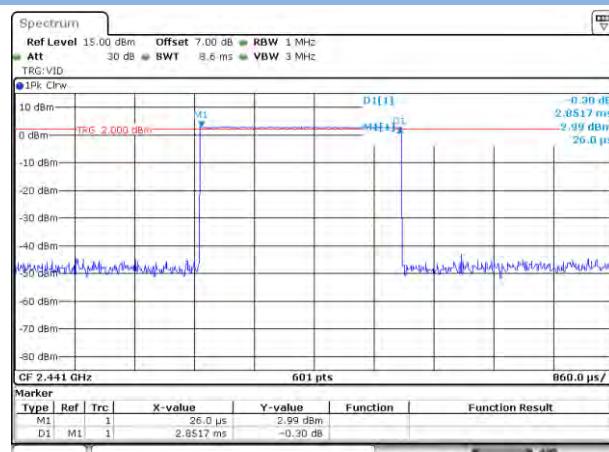
Test Data

| GFSK | | | | |
|-----------|------------------|---------------------|-------------|---------|
| DH Packet | Pulse Width (ms) | Total of Dwell (ms) | Limit (sec) | Verdict |
| DH 1 | 0.39125 | 125.204 | 0.4 | Pass |
| DH 3 | 1.62883 | 260.621 | 0.4 | Pass |
| DH 5 | 2.8517 | 304.191 | 0.4 | Pass |
| 8-DPSK | | | | |
| DH Packet | Pulse Width (ms) | Total of Dwell (ms) | Limit (sec) | Verdict |
| DH 1 | 0.4005 | 128.164 | 0.4 | Pass |
| DH 3 | 1.62117 | 259.395 | 0.4 | Pass |
| DH 5 | 2.8795 | 307.156 | 0.4 | Pass |

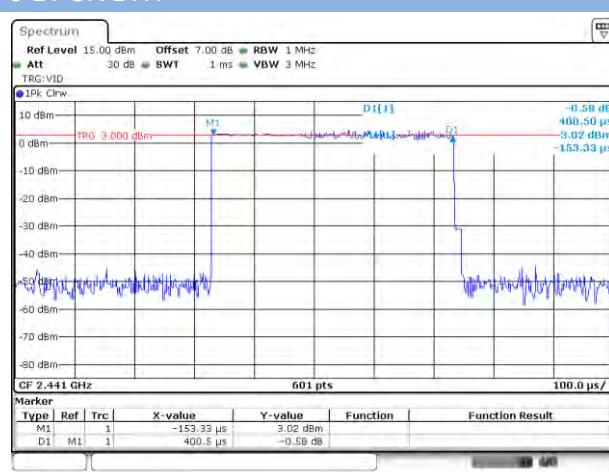
Test Plots



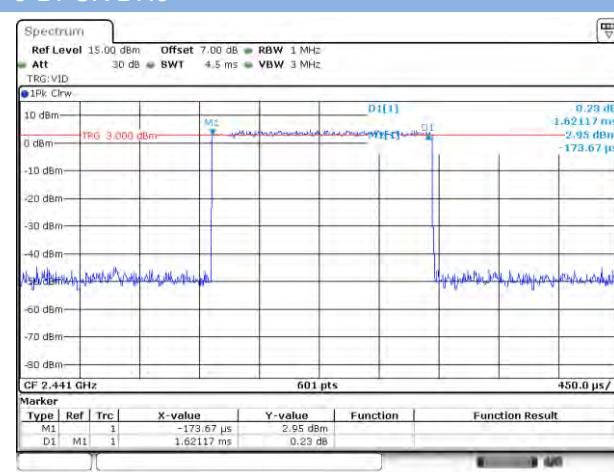
GFSK DH5



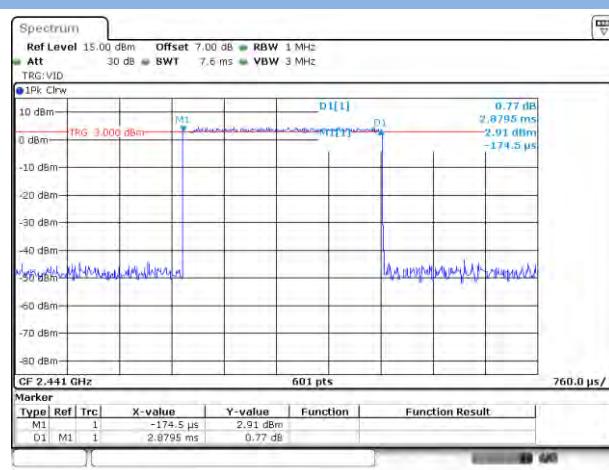
8-DPSK DH1



8-DPSK DH3



8-DPSK DH5



A.6 Conducted Spurious Emissions & Authorized-band band-edge

Test Data

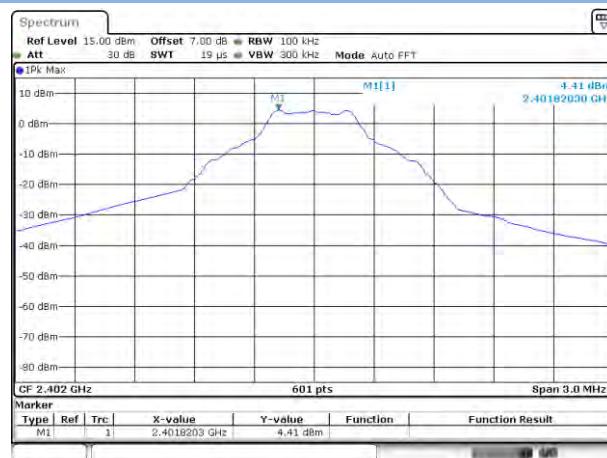
| GFSK | | | | |
|---------|--|---------------|-------------------------|---------|
| Channel | Measured Max. Out of Band Emission (dBm) | Limit (dBm) | | Verdict |
| | | Carrier Level | Calculated 20 dBc Limit | |
| Low | -41.06 | 4.41 | -15.59 | Pass |
| Middle | -47.01 | 2.7 | -17.3 | Pass |
| High | -47.47 | 3.99 | -16.01 | Pass |

| 8-DPSK | | | | |
|---------|--|---------------|-------------------------|---------|
| Channel | Measured Max. Out of Band Emission (dBm) | Limit (dBm) | | Verdict |
| | | Carrier Level | Calculated 20 dBc Limit | |
| Low | -41.8 | 4.25 | -15.75 | Pass |
| Middle | -46.53 | 2.74 | -17.26 | Pass |
| High | -46.88 | 4 | -16 | Pass |

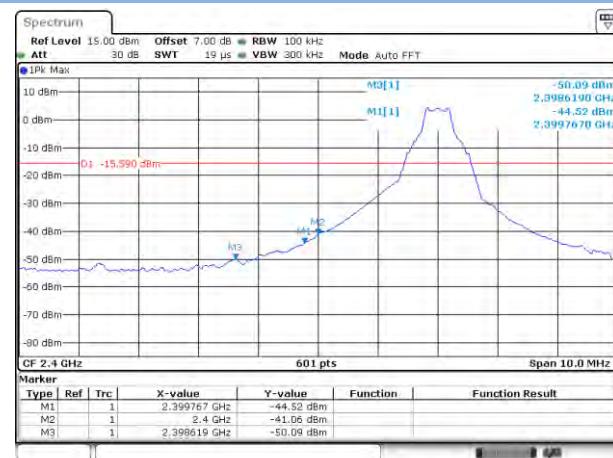
| Hopping Mode | | | | |
|--------------|--|---------------|-------------------------|---------|
| Mode | Measured Max. Out of Band Emission (dBm) | Limit (dBm) | | Verdict |
| | | Carrier Level | Calculated 20 dBc Limit | |
| GFSK | -44.82 | 3.67 | -16.33 | Pass |
| 8-DPSK | -46.34 | 3.72 | -16.28 | Pass |

Test Plots

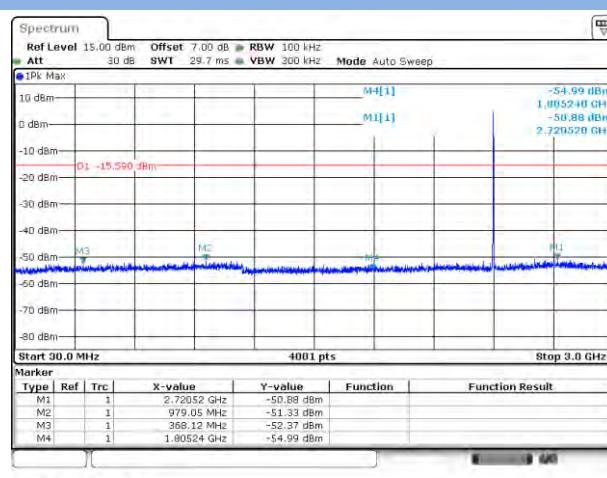
GFSK LOW CHANNEL, CARRIER LEVEL



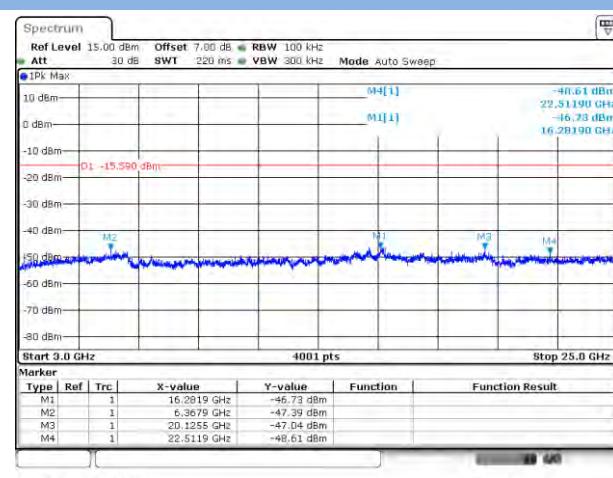
GFSK LOW CHANNEL, BAND EDGE



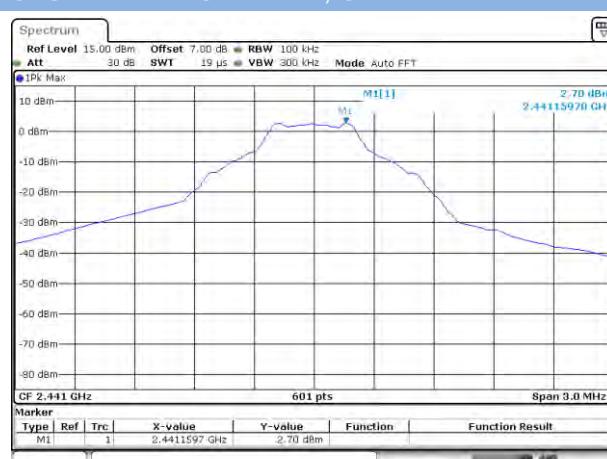
GFSK LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



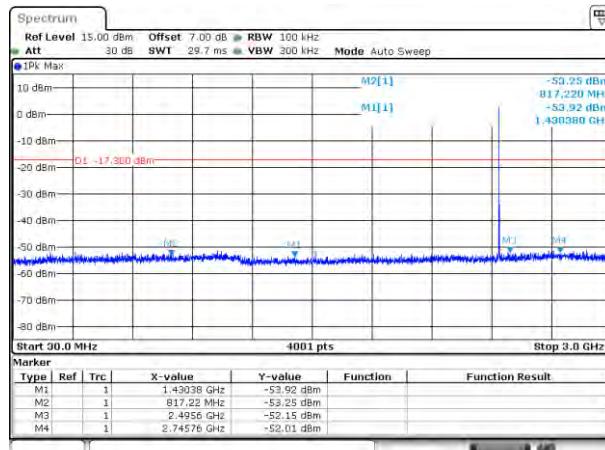
GFSK LOW CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



GFSK MIDDLE CHANNEL, CARRIER LEVEL

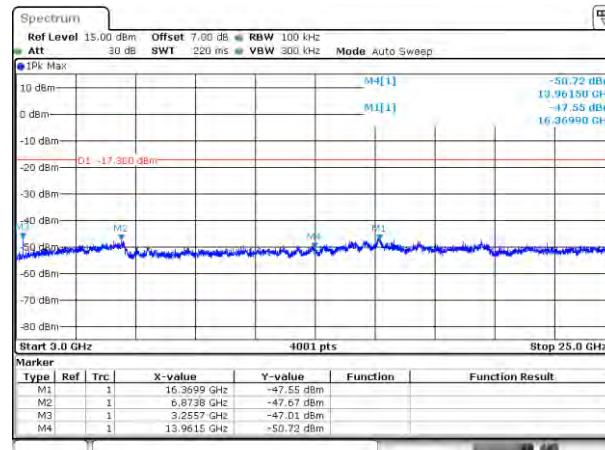


GFSK MIDDLE CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



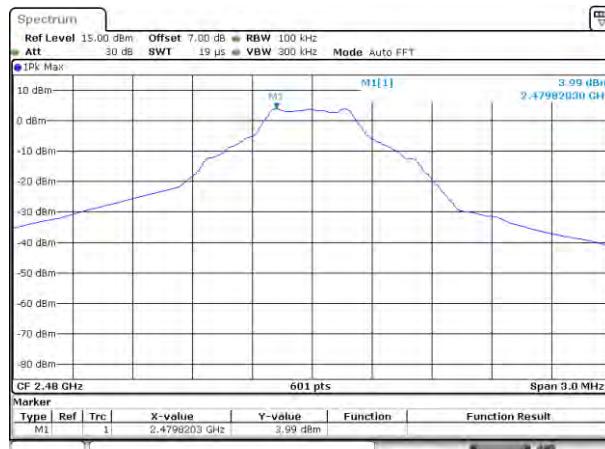
Date: 24.NOV.2016 16:15:44

GFSK MIDDLE CHANNEL , SPURIOUS 3 GHz ~ 25 GHz



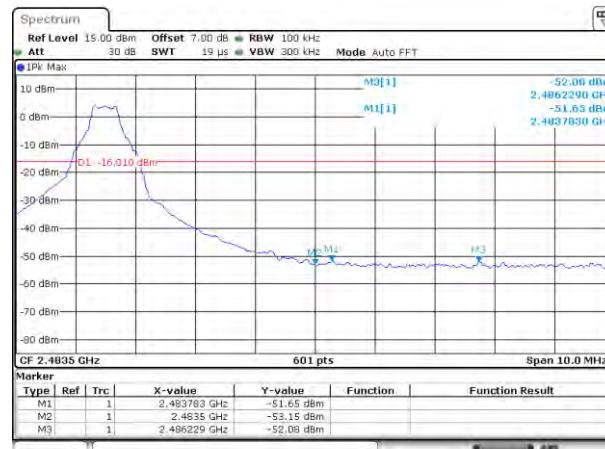
Date: 24.NOV.2016 16:16:10

GFSK HIGH CHANNEL, CARRIER LEVEL



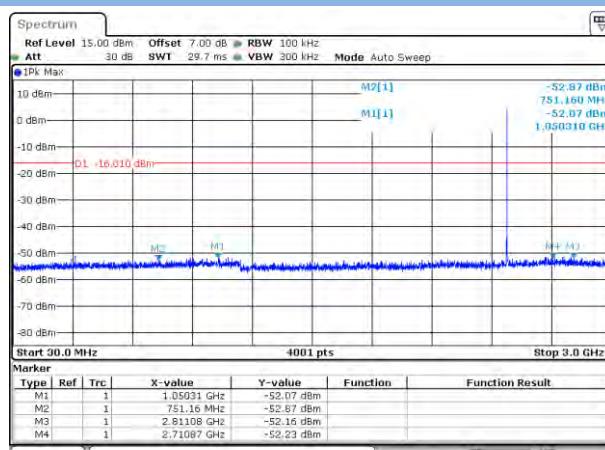
Date: 24.NOV.2016 16:18:59

GFSK HIGH CHANNEL , BAND EDGE



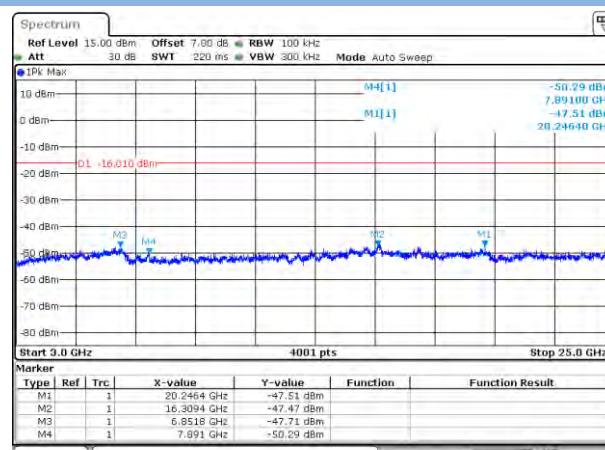
Date: 24.NOV.2016 16:20:22

GFSK HIGH CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



Date: 24.NOV.2016 16:19:27

GFSK HIGH CHANNEL , SPURIOUS 3 GHz ~ 25 GHz

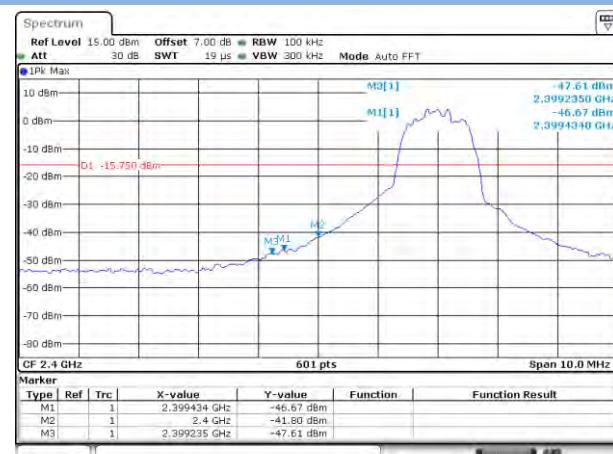


Date: 24.NOV.2016 16:19:55

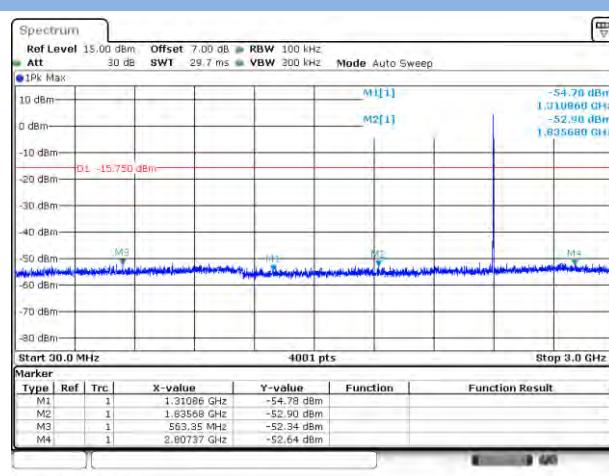
8-DPSK LOW CHANNEL, CARRIER LEVEL



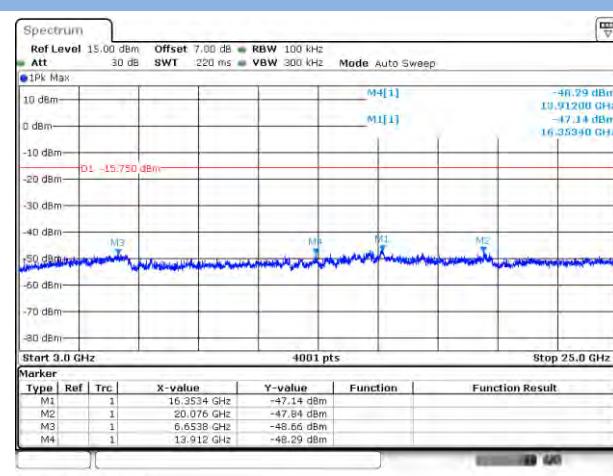
8-DPSK LOW CHANNEL, BAND EDGE



8-DPSK LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



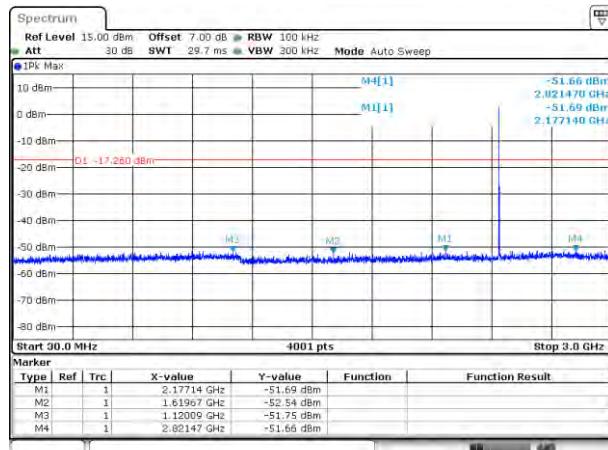
8-DPSK LOW CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



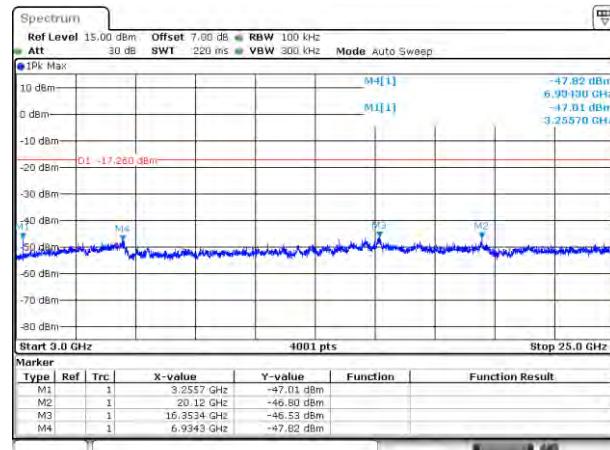
8-DPSK MIDDLE CHANNEL, CARRIER LEVEL



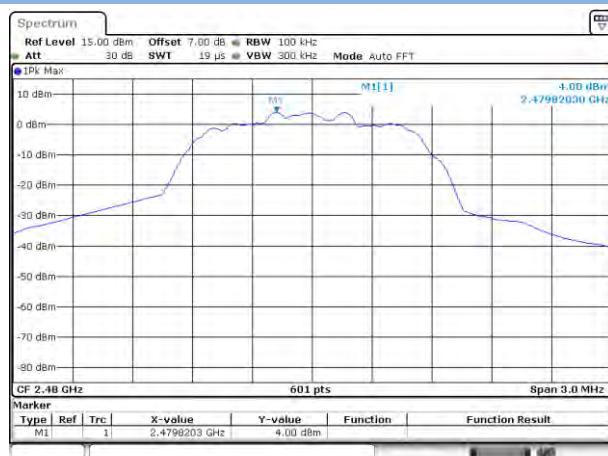
8-DPSK MIDDLE CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



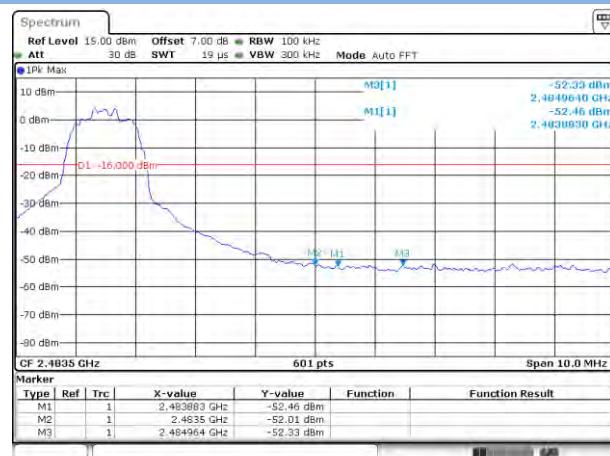
8-DPSK MIDDLE CHANNEL , SPURIOUS 3 GHz ~ 25 GHz



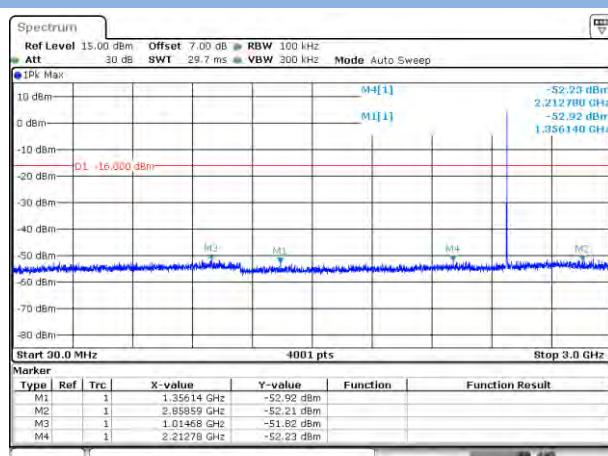
8-DPSK HIGH CHANNEL, CARRIER LEVEL



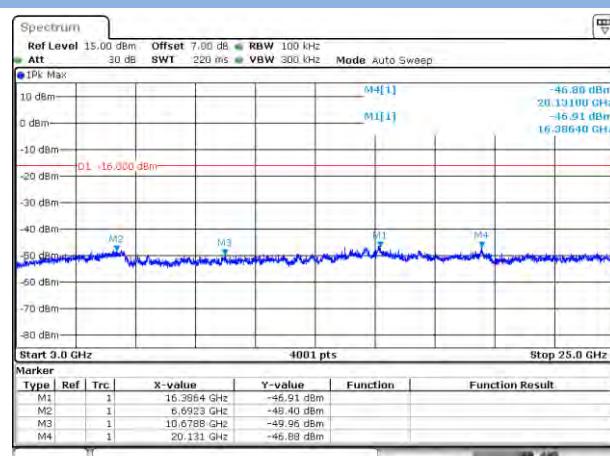
8-DPSK HIGH CHANNEL , BAND EDGE



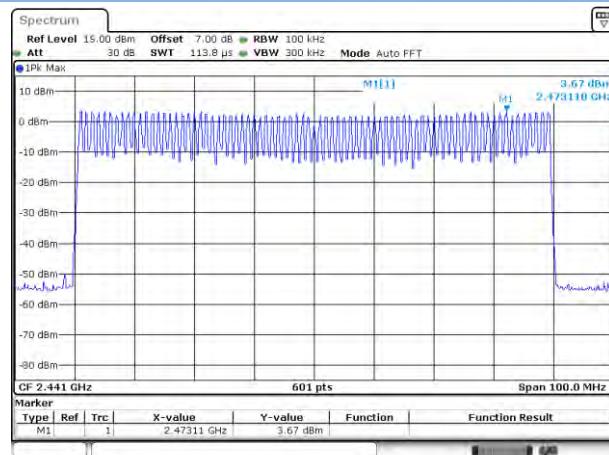
8-DPSK HIGH CHANNEL , SPURIOUS 30 MHz ~ 3 GHz



8-DPSK HIGH CHANNEL , SPURIOUS 3 GHz ~ 25 GHz

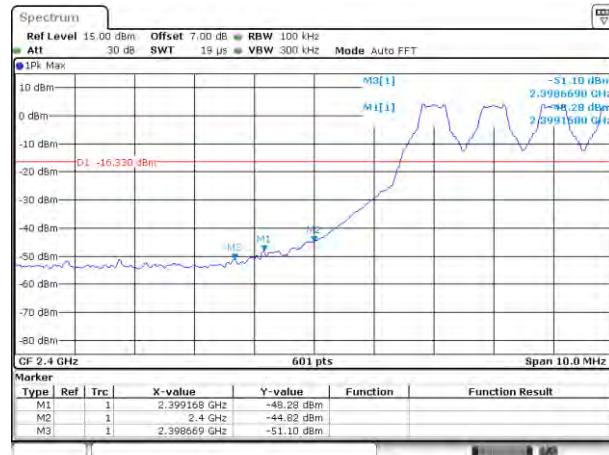


GFSK HOPPING, CARRIER LEVEL



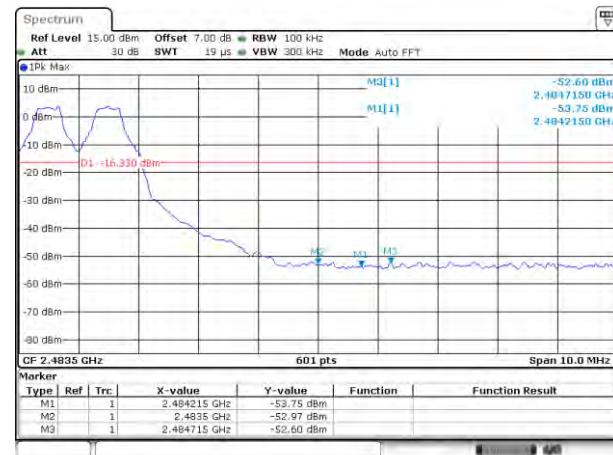
Date: 24 NOV 2016 16:39:51

GFSK HOPPING BAND EDGE (LOW)



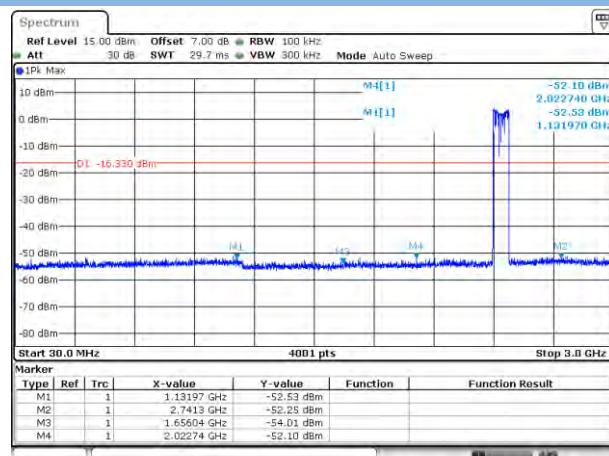
Date: 24 NOV 2016 16:41:53

GFSK HOPPING BAND EDGE (HIGH)



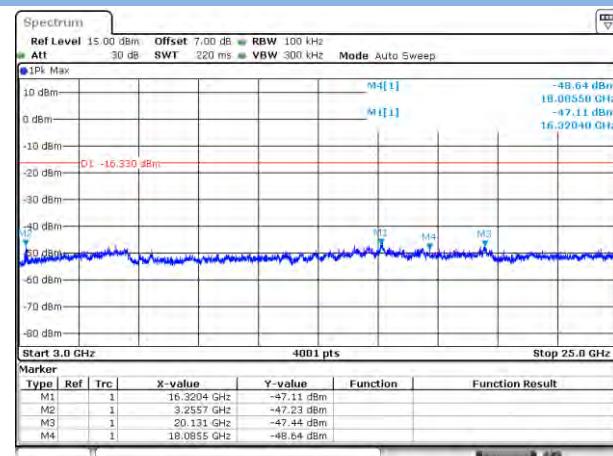
Date: 24 NOV 2016 16:42:16

GFSK Hopping Mode, SPURIOUS 30 MHz ~ 3 GHz



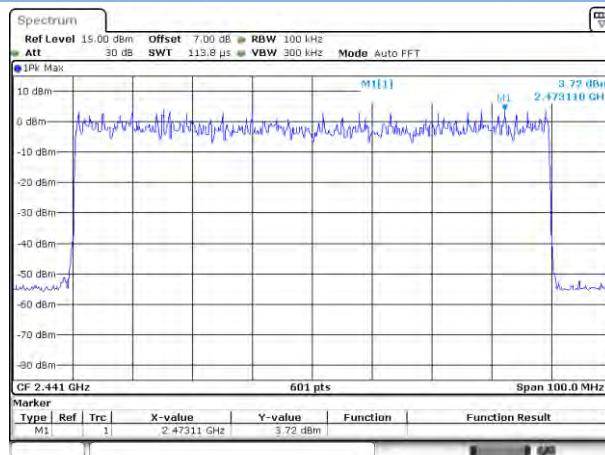
Date: 24 NOV 2016 16:40:46

GFSK Hopping Mode, SPURIOUS 30 3GHz ~ 25 GHz



Date: 24 NOV 2016 16:41:14

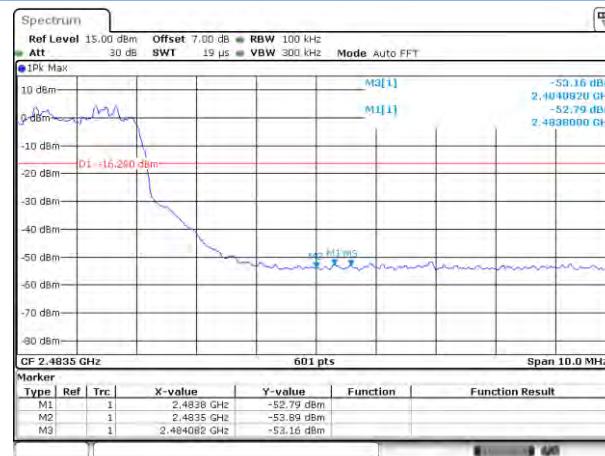
8-DPSK HOPPING, CARRIER LEVEL



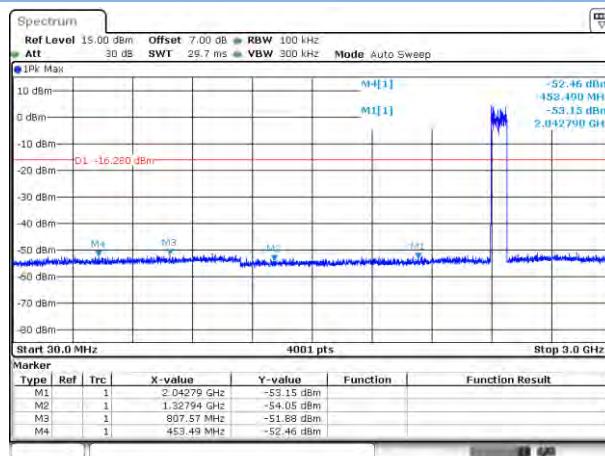
8-DPSK Hopping BAND EDGE (LOW)



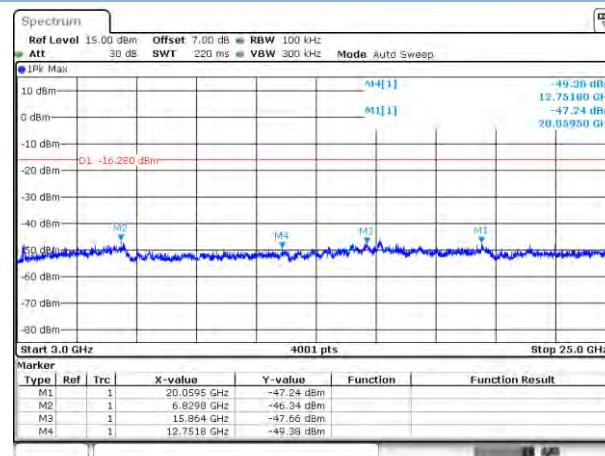
8-DPSK Hopping BAND EDGE (HIGH)



8-DPSK Hopping Mode, SPURIOUS 30 MHz ~ 3 GHz



8-DPSK Hopping Mode, SPURIOUS 30 3GHz ~ 25 GHz

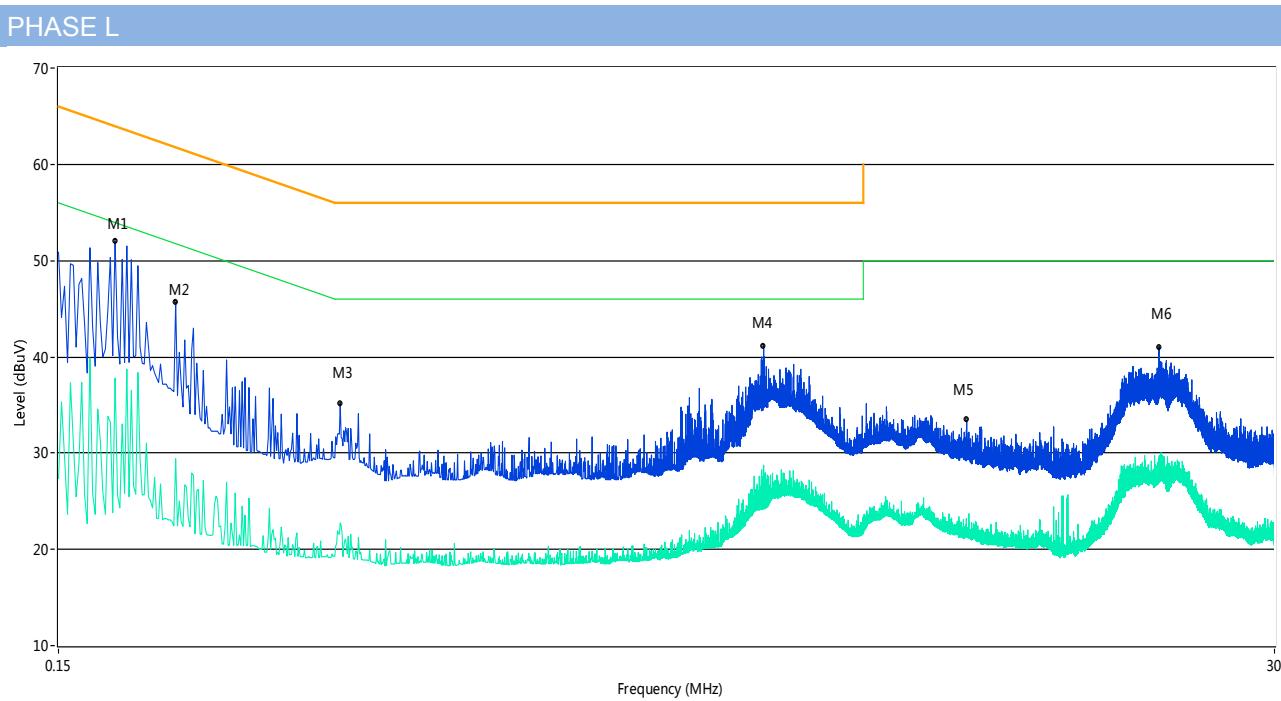


A.7 Conducted Emissions

Note 1: The EUT is working in the Normal link mode.

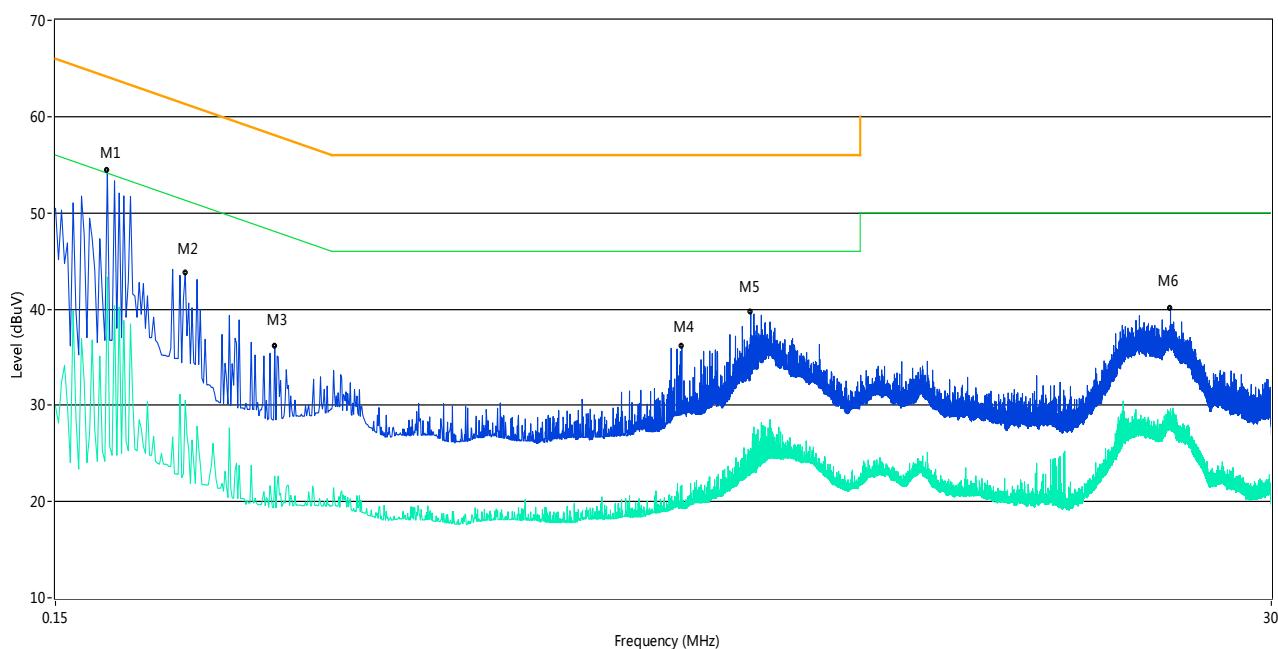
Note 2: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

Test Data and Plots



| No. | Frequency (MHz) | Results (dBuV) | Factor (dB) | Limit (dBuV) | Margin (dB) | Detector | Line | Verdict |
|-----|-----------------|----------------|-------------|--------------|-------------|----------|--------|---------|
| 1 | 0.192 | 51.9 | 11.00 | 63.9 | 12.00 | Peak | L Line | Pass |
| 1** | 0.192 | 37.8 | 11.00 | 53.9 | 16.10 | AV | L Line | Pass |
| 2 | 0.250 | 45.7 | 11.00 | 61.8 | 16.10 | Peak | L Line | Pass |
| 2** | 0.250 | 29.4 | 11.00 | 51.8 | 22.40 | AV | L Line | Pass |
| 3 | 0.512 | 35.2 | 11.00 | 56.0 | 20.80 | Peak | L Line | Pass |
| 3** | 0.512 | 22.8 | 11.00 | 46.0 | 23.20 | AV | L Line | Pass |
| 4 | 3.240 | 41.1 | 11.00 | 56.0 | 14.90 | Peak | L Line | Pass |
| 4** | 3.240 | 28.7 | 11.00 | 46.0 | 17.30 | AV | L Line | Pass |
| 5 | 7.846 | 33.4 | 11.00 | 60.0 | 26.60 | Peak | L Line | Pass |
| 5** | 7.846 | 20.4 | 11.00 | 50.0 | 29.60 | AV | L Line | Pass |
| 6 | 18.138 | 41.0 | 11.00 | 60.0 | 19.00 | Peak | L Line | Pass |
| 6** | 18.138 | 29.2 | 11.00 | 50.0 | 20.80 | AV | L Line | Pass |

PHASE N

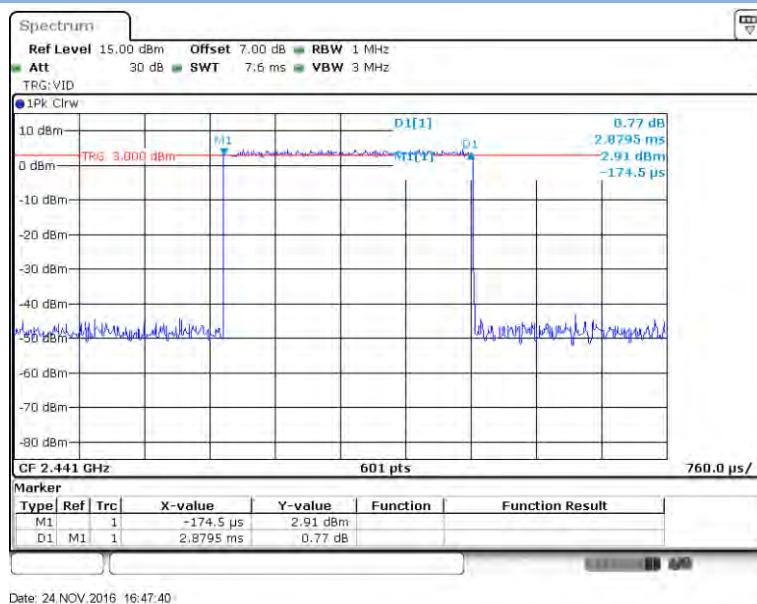


| No. | Frequency (MHz) | Results (dBuV) | Factor (dB) | Limit (dBuV) | Margin (dB) | Detector | Line | Verdict |
|-----|-----------------|----------------|-------------|--------------|-------------|----------|--------|---------|
| 1 | 0.188 | 54.4 | 11.00 | 64.1 | 9.70 | Peak | N Line | Pass |
| 1** | 0.188 | 43.3 | 11.00 | 54.1 | 10.80 | AV | N Line | Pass |
| 2 | 0.264 | 43.7 | 11.00 | 61.3 | 17.60 | Peak | N Line | Pass |
| 2** | 0.264 | 30.5 | 11.00 | 51.3 | 20.80 | AV | N Line | Pass |
| 3 | 0.390 | 36.1 | 11.00 | 58.1 | 22.00 | Peak | N Line | Pass |
| 3** | 0.390 | 22.6 | 11.00 | 48.1 | 25.50 | AV | N Line | Pass |
| 4 | 2.298 | 36.1 | 11.00 | 56.0 | 19.90 | Peak | N Line | Pass |
| 4** | 2.298 | 21.7 | 11.00 | 46.0 | 24.30 | AV | N Line | Pass |
| 5 | 3.104 | 39.7 | 11.00 | 56.0 | 16.30 | Peak | N Line | Pass |
| 5** | 3.104 | 25.5 | 11.00 | 46.0 | 20.50 | AV | N Line | Pass |
| 6 | 19.336 | 40.1 | 11.00 | 60.0 | 19.90 | Peak | N Line | Pass |
| 6** | 19.336 | 29.6 | 11.00 | 50.0 | 20.40 | AV | N Line | Pass |

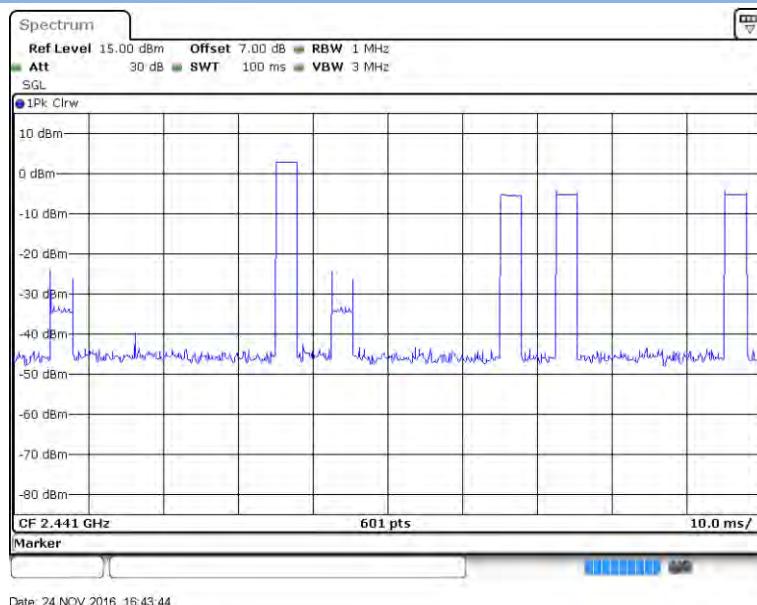
A.8 Radiated Spurious Emission

Duty cycle correction factor for average measurement.

DH5 on time/100 ms (One Pulse) Plot on Channel 39



DH5 on time/100 ms (Count Pulses) Plot on Channel 39



Note:

1. Duty cycle = on time/100 milliseconds = $4 * 2.873 / 100 = 11.49 \%$
2. Duty cycle correction factor = $20 * \log (\text{Duty cycle}) = -18.79 \text{ dB}$
3. DH5 has the highest duty cycle and is reported.

Note 1: The symbol of “--” in the table which means not application.

Note 2: For the test data above 1 GHz, according the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

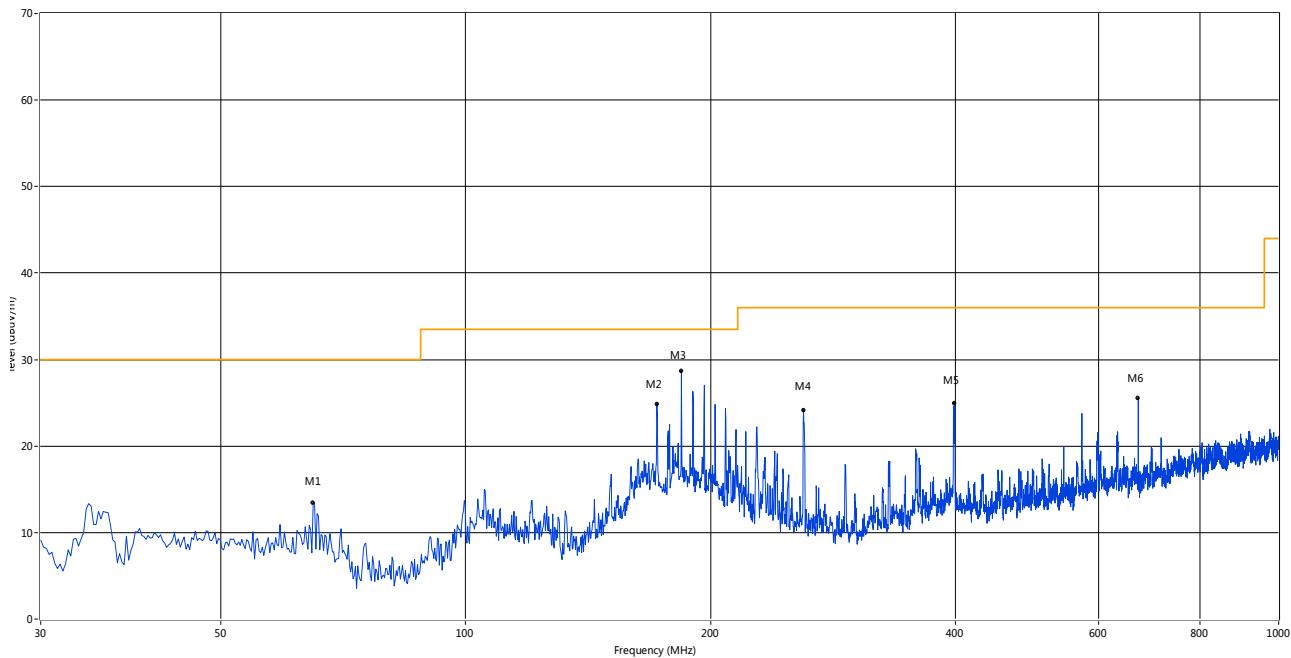
Note 3: The EUT is working in the Normal link mode below 1 GHz.

Note 4: Both model of the charger were tested in this report. The C-P35 (Huntkey) is the main test model, and the C-P35 (Acbel) only retest the below 1GHz in this report which choose the low test channel in the GFSK mode.

Test Data and Plots

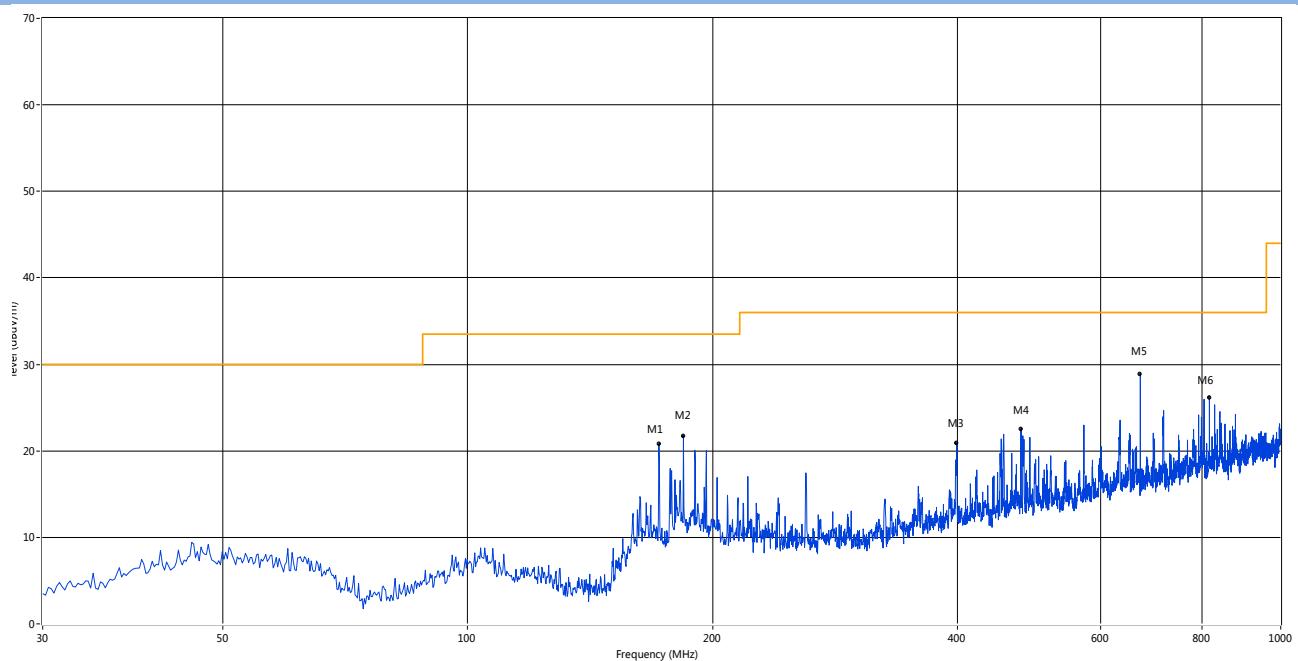
The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

30 MHz to 1 GHz, ANT V



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1 | 64.911 | 13.45 | -16.34 | 30.0 | 16.55 | Peak | 258.00 | 100 | Vertical | Pass |
| 2 | 171.827 | 24.86 | -18.31 | 33.5 | 8.64 | Peak | 285.00 | 100 | Vertical | Pass |
| 3 | 184.191 | 28.60 | -17.52 | 33.5 | 4.90 | Peak | 275.00 | 100 | Vertical | Pass |
| 4 | 260.317 | 24.09 | -14.32 | 36.0 | 11.91 | Peak | 323.00 | 100 | Vertical | Pass |
| 5 | 399.720 | 24.96 | -10.87 | 36.0 | 11.04 | Peak | 264.00 | 100 | Vertical | Pass |
| 6 | 671.980 | 25.55 | -6.27 | 36.0 | 10.45 | Peak | 66.00 | 100 | Vertical | Pass |

30 MHz to 1 GHz, ANT H



| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|------------|---------|
| 1 | 171.827 | 20.77 | -18.31 | 33.5 | 12.73 | Peak | 304.00 | 100 | Horizontal | Pass |
| 2 | 184.191 | 21.70 | -17.52 | 33.5 | 11.80 | Peak | 318.00 | 100 | Horizontal | Pass |
| 3 | 399.478 | 20.89 | -10.88 | 36.0 | 15.11 | Peak | 283.00 | 100 | Horizontal | Pass |
| 4 | 478.998 | 22.48 | -9.65 | 36.0 | 13.52 | Peak | 280.00 | 100 | Horizontal | Pass |
| 5 | 671.980 | 28.85 | -6.27 | 36.0 | 7.15 | Peak | 201.00 | 100 | Horizontal | Pass |
| 6 | 816.958 | 26.14 | -3.99 | 36.0 | 9.86 | Peak | 123.00 | 100 | Horizontal | Pass |

Note: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Test Data and Plots (1 GHz ~ 10th Harmonic)

GFSK LOW CHANNEL 1 GHz to 25 GHz, ANT V

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1 | 2398.60 | 52.08 | 0.03 | 74 | 21.92 | Peak | 335.8 | 150 | Vertical | Pass |
| 2 | 2402.12 | 96.02 | 0.75 | 74 | -22.02 | Peak | 250.3 | 150 | Vertical | N/A |
| 3 | 3571.04 | 50.95 | 5.06 | 74 | 23.05 | Peak | 121 | 150 | Vertical | Pass |
| 4 | 6527.87 | 43.29 | 15.74 | 74 | 30.71 | Peak | 118.6 | 150 | Vertical | Pass |
| 5 | 13394.76 | 44.71 | 10.46 | 74 | 29.29 | Peak | 227.4 | 150 | Vertical | Pass |
| 6 | 18324.04 | 44.96 | 9.60 | 74 | 29.04 | Peak | 38.2 | 150 | Vertical | Pass |

GFSK LOW CHANNEL 1 GHz to 25 GHz, ANT H

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|------------|---------|
| 1 | 2264.66 | 47.35 | 2.04 | 74 | 26.65 | Peak | 34.8 | 150 | Horizontal | Pass |
| 2 | 2402.09 | 92.90 | 0.82 | 74 | -18.90 | Peak | 330 | 150 | Horizontal | N/A |
| 3 | 5950.11 | 51.19 | 12.18 | 74 | 22.81 | Peak | 186.3 | 150 | Horizontal | Pass |
| 4 | 11312.40 | 45.04 | 16.69 | 74 | 28.96 | Peak | 31.7 | 150 | Horizontal | Pass |
| 5 | 15901.00 | 42.98 | 13.00 | 74 | 31.02 | Peak | 348.1 | 150 | Horizontal | Pass |
| 6 | 21405.99 | 45.64 | 12.74 | 74 | 28.36 | Peak | 52.5 | 150 | Horizontal | Pass |

GFSK MIDDLE CHANNEL 1 GHz to 25 GHz, ANT V

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1 | 2399.06 | 51.73 | -0.24 | 74 | 22.27 | Peak | 306.3 | 150 | Vertical | Pass |
| 2 | 2440.56 | 97.72 | 0.67 | 74 | -23.72 | Peak | 259.2 | 150 | Vertical | N/A |
| 3 | 3577.07 | 52.07 | 5.06 | 74 | 21.93 | Peak | 248.7 | 150 | Vertical | Pass |
| 4 | 11963.81 | 47.39 | 17.12 | 74 | 26.61 | Peak | 263 | 150 | Vertical | Pass |
| 5 | 17908.07 | 45.76 | 9.15 | 74 | 28.24 | Peak | 25 | 150 | Vertical | Pass |
| 6 | 20737.11 | 47.14 | 10.62 | 74 | 26.86 | Peak | 252.1 | 150 | Vertical | Pass |

GFSK MIDDLE CHANNEL 1 GHz to 25 GHz, ANT H

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|------------|---------|
| 1 | 2267.52 | 48.08 | 1.48 | 74 | 25.92 | Peak | 85.7 | 150 | Horizontal | Pass |
| 2 | 2440.46 | 93.76 | 0.82 | 74 | -19.76 | Peak | 42.3 | 150 | Horizontal | N/A |
| 3 | 5953.22 | 50.86 | 12.11 | 74 | 23.14 | Peak | 319 | 150 | Horizontal | Pass |
| 4 | 8628.12 | 47.66 | 19.17 | 74 | 26.34 | Peak | 116.7 | 150 | Horizontal | Pass |
| 5 | 14247.50 | 46.21 | 8.70 | 74 | 27.79 | Peak | 270.1 | 150 | Horizontal | Pass |
| 6 | 19688.85 | 46.21 | 12.50 | 74 | 27.80 | Peak | 111.7 | 150 | Horizontal | Pass |

GFSK HIGH CHANNEL 1 GHz to 25 GHz, ANT V

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1 | 2396.78 | 51.82 | -0.24 | 74 | 22.18 | Peak | 185.6 | 150 | Vertical | Pass |
| 2 | 2480.77 | 96.07 | 0.79 | 74 | -22.07 | Peak | 267.6 | 150 | Vertical | N/A |
| 3 | 3573.52 | 51.18 | 5.06 | 74 | 22.82 | Peak | 151.9 | 150 | Vertical | Pass |
| 4 | 10110.65 | 44.73 | 16.96 | 74 | 29.27 | Peak | 163.6 | 150 | Vertical | Pass |
| 5 | 14632.28 | 45.59 | 8.73 | 74 | 28.41 | Peak | 193 | 150 | Vertical | Pass |
| 6 | 20447.59 | 41.67 | 9.98 | 74 | 32.33 | Peak | 149.7 | 150 | Vertical | Pass |

GFSK HIGH CHANNEL 1 GHz to 25 GHz, ANT H

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|------------|---------|
| 1 | 2266.93 | 48.94 | 1.93 | 74 | 25.06 | Peak | 147.2 | 150 | Horizontal | Pass |
| 2 | 2480.10 | 94.04 | -0.24 | 74 | -20.04 | Peak | 15 | 150 | Horizontal | N/A |
| 3 | 5949.67 | 51.10 | 12.18 | 74 | 22.90 | Peak | 21.3 | 150 | Horizontal | Pass |
| 4 | 9032.45 | 43.51 | 15.70 | 74 | 30.49 | Peak | 265.1 | 150 | Horizontal | Pass |
| 5 | 13893.93 | 46.73 | 9.18 | 74 | 27.28 | Peak | 287.4 | 150 | Horizontal | Pass |
| 6 | 20657.24 | 45.25 | 11.60 | 74 | 28.75 | Peak | 144.8 | 150 | Horizontal | Pass |

8-DPSK LOW CHANNEL 1 GHz to 25 GHz, ANT V

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1 | 2397.22 | 52.71 | -0.13 | 74 | 21.29 | Peak | 152.4 | 150 | Vertical | Pass |
| 2 | 2402.12 | 97.53 | 0.22 | 74 | -23.53 | Peak | 315 | 150 | Vertical | N/A |
| 3 | 3572.09 | 50.31 | 5.16 | 74 | 23.69 | Peak | 98.3 | 150 | Vertical | Pass |
| 4 | 11952.58 | 42.19 | 13.87 | 74 | 31.82 | Peak | 6 | 150 | Vertical | Pass |
| 5 | 16587.35 | 44.46 | 8.70 | 74 | 29.54 | Peak | 62.1 | 150 | Vertical | Pass |
| 6 | 23821.96 | 44.97 | 9.43 | 74 | 29.03 | Peak | 221.2 | 150 | Vertical | Pass |

8-DPSK LOW CHANNEL 1 GHz to 25 GHz, ANT H

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|------------|---------|
| 1 | 2269.16 | 48.29 | 1.93 | 74 | 25.71 | Peak | 147.9 | 150 | Horizontal | Pass |
| 2 | 2402.10 | 93.03 | 0.79 | 74 | -19.03 | Peak | 305.2 | 150 | Horizontal | N/A |
| 3 | 5951.67 | 50.32 | 12.16 | 74 | 23.68 | Peak | 195.6 | 150 | Horizontal | Pass |
| 4 | 8167.64 | 49.29 | 20.50 | 74 | 24.72 | Peak | 329.8 | 150 | Horizontal | Pass |
| 5 | 16181.78 | 52.38 | 9.32 | 74 | 21.62 | Peak | 277.4 | 150 | Horizontal | Pass |
| 6 | 19958.40 | 46.14 | 11.08 | 74 | 27.86 | Peak | 26.1 | 150 | Horizontal | Pass |

8-DPSK MIDDLE CHANNEL 1 GHz to 25 GHz, ANT V

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1 | 2398.47 | 51.63 | 0.03 | 74 | 22.37 | Peak | 256.6 | 150 | Vertical | Pass |
| 2 | 2440.12 | 96.46 | 0.82 | 74 | -22.46 | Peak | 239.9 | 150 | Vertical | N/A |
| 3 | 3575.99 | 51.47 | 4.74 | 74 | 22.53 | Peak | 96.2 | 150 | Vertical | Pass |
| 4 | 11862.73 | 45.18 | 14.34 | 74 | 28.82 | Peak | 276.9 | 150 | Vertical | Pass |
| 5 | 12770.80 | 47.40 | 9.35 | 74 | 26.60 | Peak | 152.3 | 150 | Vertical | Pass |
| 6 | 22484.19 | 46.50 | 12.75 | 74 | 27.50 | Peak | 125.5 | 150 | Vertical | Pass |

8-DPSK MIDDLE CHANNEL 1 GHz to 25 GHz, ANT H

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|------------|---------|
| 1 | 2264.24 | 47.79 | 2.04 | 74 | 26.21 | Peak | 37.5 | 150 | Horizontal | Pass |
| 2 | 2440.27 | 94.42 | 0.22 | 74 | -20.42 | Peak | 214.4 | 150 | Horizontal | N/A |
| 3 | 5952.69 | 51.48 | 12.16 | 74 | 22.52 | Peak | 159.9 | 150 | Horizontal | Pass |
| 4 | 7066.97 | 46.30 | 20.09 | 74 | 27.70 | Peak | 158.5 | 150 | Horizontal | Pass |
| 5 | 14455.49 | 48.58 | 9.56 | 74 | 25.43 | Peak | 212.7 | 150 | Horizontal | Pass |
| 6 | 22903.49 | 49.02 | 10.70 | 74 | 24.98 | Peak | 348.9 | 150 | Horizontal | Pass |

8-DPSK HIGH CHANNEL 1 GHz to 25 GHz, ANT V

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1 | 2396.04 | 50.43 | -0.24 | 74 | 23.57 | Peak | 158.2 | 150 | Vertical | Pass |
| 2 | 2480.94 | 97.46 | 0.79 | 74 | -23.46 | Peak | 345.5 | 150 | Vertical | N/A |
| 3 | 3574.29 | 51.76 | 5.34 | 74 | 22.24 | Peak | 117.6 | 150 | Vertical | Pass |
| 4 | 8886.44 | 42.48 | 14.30 | 74 | 31.52 | Peak | 121.7 | 150 | Vertical | Pass |
| 5 | 17044.93 | 46.34 | 8.62 | 74 | 27.66 | Peak | 61.7 | 150 | Vertical | Pass |
| 6 | 19608.99 | 46.08 | 11.53 | 74 | 27.92 | Peak | 238.1 | 150 | Vertical | Pass |

8-DPSK HIGH CHANNEL 1 GHz to 25 GHz, ANT H

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|------------|---------|
| 1 | 2267.60 | 49.00 | 2.04 | 74 | 25.00 | Peak | 60.8 | 150 | Horizontal | Pass |
| 2 | 2480.94 | 93.23 | 0.57 | 74 | -19.23 | Peak | 167.3 | 150 | Horizontal | N/A |
| 3 | 5950.73 | 50.35 | 12.20 | 74 | 23.65 | Peak | 183.6 | 150 | Horizontal | Pass |
| 4 | 6662.65 | 47.35 | 18.90 | 74 | 26.65 | Peak | 249.4 | 150 | Horizontal | Pass |
| 5 | 14195.51 | 41.51 | 9.55 | 74 | 32.49 | Peak | 137.5 | 150 | Horizontal | Pass |
| 6 | 23622.30 | 47.51 | 13.64 | 74 | 26.49 | Peak | 160.5 | 150 | Horizontal | Pass |

Hopping Mode:**GFSK MODE 1 GHz to 25 GHz, ANT V**

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1 | 2397.60 | 52.65 | 0.48 | 74 | 21.35 | Peak | 298.9 | 150 | Vertical | Pass |
| 2 | 2402.06 | 97.56 | 0.79 | 74 | -23.56 | Peak | 153.8 | 150 | Vertical | N/A |
| 3 | 3577.29 | 51.55 | 5.16 | 74 | 22.45 | Peak | 337.3 | 150 | Vertical | Pass |
| 4 | 7628.54 | 47.10 | 14.15 | 74 | 26.91 | Peak | 177.2 | 150 | Vertical | Pass |
| 5 | 13737.94 | 45.99 | 9.08 | 74 | 28.02 | Peak | 79.5 | 150 | Vertical | Pass |
| 6 | 22224.63 | 41.53 | 9.45 | 74 | 32.47 | Peak | 257.4 | 150 | Vertical | Pass |

GFSK MODE 1 GHz to 25 GHz, ANT H

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|------------|---------|
| 1 | 2266.24 | 48.09 | 1.82 | 74 | 25.91 | Peak | 249.7 | 150 | Horizontal | Pass |
| 2 | 2402.06 | 92.98 | 0.57 | 74 | -18.98 | Peak | 131.9 | 150 | Horizontal | N/A |
| 3 | 5949.76 | 50.36 | 12.15 | 74 | 23.64 | Peak | 38.5 | 150 | Horizontal | Pass |
| 4 | 8841.51 | 44.63 | 14.12 | 74 | 29.37 | Peak | 139.9 | 150 | Horizontal | Pass |
| 5 | 17793.68 | 42.29 | 8.66 | 74 | 31.71 | Peak | 143.2 | 150 | Horizontal | Pass |
| 6 | 24590.68 | 43.31 | 11.08 | 74 | 30.69 | Peak | 102.9 | 150 | Horizontal | Pass |

Note: Based on the test result of EUT 1, the EUT 2 only retest the worst mode (8-DPSK HIGH CHANNEL) in this report.

8-DPSK HIGH CHANNEL 1 GHz to 25 GHz, ANT V

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|----------|---------|
| 1 | 2398.72 | 52.62 | 0.03 | 74 | 21.38 | Peak | 276.9 | 150 | Vertical | Pass |
| 2 | 2402.07 | 96.43 | 0.67 | 74 | -22.43 | Peak | 192.7 | 150 | Vertical | N/A |
| 3 | 3575.41 | 51.07 | 5.06 | 74 | 22.93 | Peak | 323.9 | 150 | Vertical | Pass |
| 4 | 9481.70 | 47.36 | 14.74 | 74 | 26.64 | Peak | 222 | 150 | Vertical | Pass |
| 5 | 15745.01 | 45.20 | 20.82 | 74 | 28.80 | Peak | 273.4 | 150 | Vertical | Pass |
| 6 | 21166.39 | 47.78 | 11.99 | 74 | 26.22 | Peak | 13 | 150 | Vertical | Pass |

8-DPSK HIGH CHANNEL 1 GHz to 25 GHz, ANT H

| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|-----------|-------------|------------|---------|
| 1 | 2264.86 | 47.22 | 1.82 | 74 | 26.78 | Peak | 301.4 | 150 | Horizontal | Pass |
| 2 | 2402.12 | 93.25 | 0.22 | 74 | -19.25 | Peak | 70.4 | 150 | Horizontal | N/A |
| 3 | 5953.41 | 51.74 | 12.11 | 74 | 22.26 | Peak | 167 | 150 | Horizontal | Pass |
| 4 | 10222.96 | 46.03 | 15.66 | 74 | 27.97 | Peak | 225.7 | 150 | Horizontal | Pass |
| 5 | 17887.27 | 46.59 | 9.44 | 74 | 27.41 | Peak | 249.4 | 150 | Horizontal | Pass |
| 6 | 19019.97 | 50.27 | 9.57 | 74 | 23.73 | Peak | 288.6 | 150 | Horizontal | Pass |

A.9 Band Edge (Restricted-band band-edge)

Note 1: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

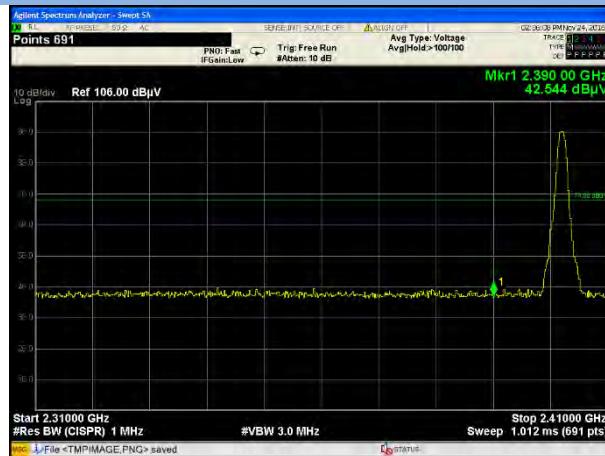
Note 2: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

Note 3: According the ANSI C63.10-2013, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

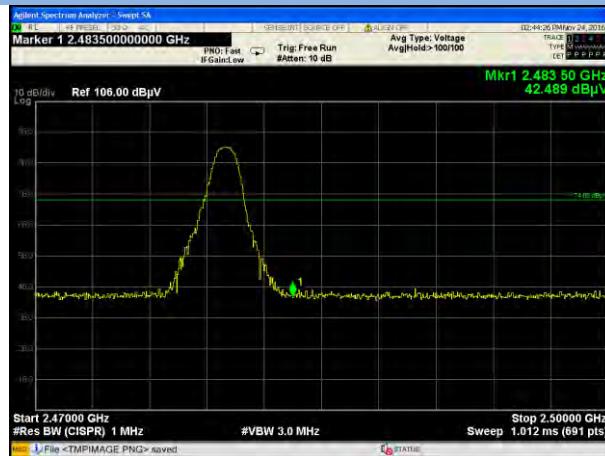
| Test Mode | Test Channel | Frequency (MHz) | Level (dBuV/m) | Limit Line (dBuV/m) | Margin (dB) | Remark | Verdict |
|------------------|--------------|-----------------|----------------|---------------------|-------------|---------|---------|
| GFSK | Low | 2390 | 42.54 | 74 | 31.46 | PEAK | Pass |
| | | 2390 | N/A | 54 | N/A | AVERAGE | Pass |
| GFSK | HIGH | 2483.5 | 42.49 | 74 | 31.51 | PEAK | Pass |
| | | 2483.5 | N/A | 54 | N/A | AVERAGE | Pass |
| 8-DPSK | Low | 2390 | 44.52 | 74 | 29.48 | PEAK | Pass |
| | | 2390 | N/A | 54 | N/A | AVERAGE | Pass |
| 8-DPSK | HIGH | 2483.5 | 50.71 | 74 | 23.29 | PEAK | Pass |
| | | 2483.5 | N/A | 54 | N/A | AVERAGE | Pass |
| GFSK(Hopping) | Low | 2390 | 45.17 | 74 | 28.83 | PEAK | Pass |
| | | 2390 | N/A | 54 | N/A | AVERAGE | Pass |
| GFSK(Hopping) | HIGH | 2483.5 | 43.31 | 74 | 30.69 | PEAK | Pass |
| | | 2483.5 | N/A | 54 | N/A | AVERAGE | Pass |
| 8-DPSK (Hopping) | Low | 2390 | 44.06 | 74 | 29.94 | PEAK | Pass |
| | | 2390 | N/A | 54 | N/A | AVERAGE | Pass |
| 8-DPSK (Hopping) | HIGH | 2483.5 | 46.55 | 74 | 27.45 | PEAK | Pass |
| | | 2483.5 | N/A | 54 | N/A | AVERAGE | Pass |

Test Plots

GFSK LOW CHANNEL , PEAK



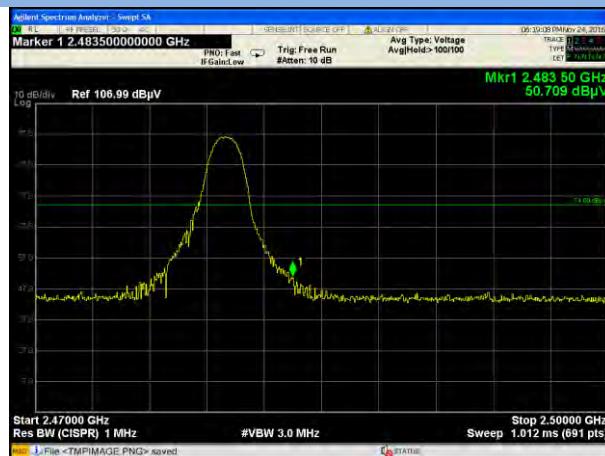
GFSK HIGH CHANNEL , PEAK

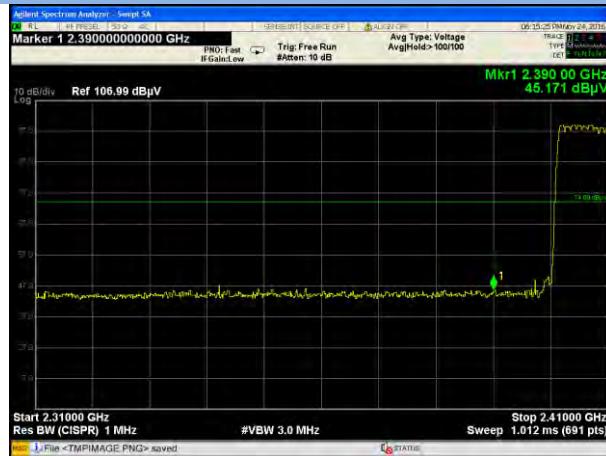


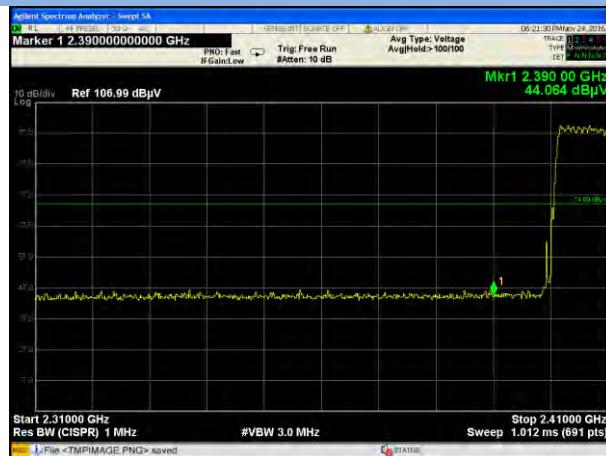
8-DPSK LOW CHANNEL , PEAK



8-DPSK HIGH CHANNEL , PEAK



Hopping Mode:
GFSK LOW FREQUENCY BAND, PEAK

GFSK HIGH FREQUENCY BAND, PEAK

8-DPSK LOW FREQUENCY BAND, PEAK

8-DPSK HIGH FREQUENCY BAND, PEAK


ANNEX B TEST SETUP PHOTOS

Please refer the document "BL-SZ16B0261-AR.PDF".

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document "BL- SZ16B0261-AW.PDF".

ANNEX D EUT INTERNAL PHOTOS

Please refer the document "BL- SZ16B0261-AI.PDF".

--END OF REPORT--