

FCC&ISED RF TEST REPORT

No. 171200800SHA-002

Applicant : Snap Inc.
63 Market Street, Venice, CA 90291, USA

Product Name : Wearable video camera

Type/Model : 002

TEST RESULT : PASS

SUMMARY

The equipment complies with the requirements according to the following standard(s):

47CFR Part 15 (2016): Radio Frequency Devices

ANSI C63.10 (2013): American National Standard for Testing Unlicensed Wireless Devices

RSS-247 Issue 2 (February 2017): Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices

RSS-Gen Issue 4 (November 2014): General Requirements for Compliance of Radio Apparatus

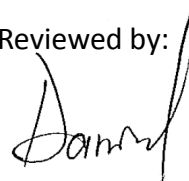
Date of issue: March 2, 2018

Prepared by:



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Reviewed by:



Daniel Zhao (Reviewer)

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Revision History

| Issue No. | Version | Description | Date Issued |
|------------------|---------|-------------------------|---------------|
| 171200800SHA-002 | Rev. 01 | Initial issue of report | March 2, 2018 |

1. General Information

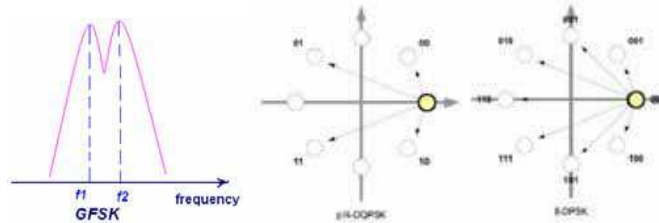
1.1 Identification of the EUT

Equipment : Wearable video camera
Type/model : 002
FCC ID : 2AIRN-002
IC : 22922-002
Description of EUT : The EUT is a wearable video camera which support WIFI and Bluetooth 4.2 technology, there have only one mode, we tested it and listed the BT(EDR) result in this report.
Rating : DC 5V
Port identification : NA
Category of EUT : Class B
EUT type : Table top Floor standing
Sample received date : December 12, 2017
Date of test : December 12, 2017 ~ January 9, 2018

1.2 Technical specification

Operation Frequency Band: 2402 - 2480 MHz
 Protocol: BT 4.2 (BR+EDR)
 Modulation: GFSK, $\pi/4$ DQPSK, 8DPSK

Technology:



Antenna Designation: Internal Monopole antenna, 4.2dBi Peak gain

Channel Description: There are 79 channels in all. The designed channel spacing is 1MHz.

| Channel Identifier | Frequency (MHz) |
|--------------------|-----------------|
| low | 2402 |
| middle | 2441 |
| high | 2480 |

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

The EUT used an internal monopole antenna and used a no-standard electrical connector, so fulfill these requirements.

1.3 Mode of operation during the test / Test peripherals used

While testing the transmitter mode of the EUT, the internal modulation is applied. All the functions of the host device except the BT module were set on stand-by mode.

The test setting software is offered by the manufactory. The pre-scan for the conducted power with all rates in each modulation and bands was used, and the worst case was found and used in all test cases.

The worst case modulation configuration:

| Worst Modulation Used for Conformance Testing | | | |
|---|-----------|----------------|---|
| Bluetooth Mode | Data Rate | Packet Type | Worst Mode |
| GFSK | BR-1Mbps | DH1,DH3,DH5 | BR-1Mbps DH5 EDR-2Mbps 2DH5 EDR-3Mbps 3DH5 |
| $\pi/4$ DQPSK | EDR-2Mbps | 2DH1,2DH3,2DH5 | |
| 8DPSK | EDR-3Mbps | 3DH1,3DH3,3DH5 | |

Note: The BR-1Mbps DH5 mode was chosen for radiation emission bellow 1GHz and Conducted emission testing as representative in this report.

The power setting parameter:

| The worst case power setting parameter | | | |
|--|-------------|---------|---------|
| Test software Version | CMD Command | | |
| Modulation Mode | 2402MHz | 2441MHz | 2480MHz |
| BR-1Mbps | 0x09 | 0x09 | 0x09 |
| EDR-2Mbps | 0x09 | 0x09 | 0x09 |
| EDR-3Mbps | 0x09 | 0x09 | 0x09 |

There have the following test modes:

Radiated test mode:

Mode 1: EUT transmitted signal with internal antenna;

Conducted test mode:

Mode 2: EUT transmitted signal from PCBA RF port connected to SPA directly;

We have verified all test modes, and choose the mode 1 for radiated RF test and mode 2 for conducted RF test as representatively to list the results in this report.

Test Peripherals:

| Item No. | Name | Band and Model | Description |
|----------|-----------------|------------------|---------------------------------|
| 1 | Laptop computer | HP ProBook 6470b | 100-240V AC, 50/60Hz FCC DOC |
| 2 | AC-DC adaptor | KA25 | 100-240VAC, DC5V1A FCC VOC |
| 3 | RF Board | NA | NA |

1.4 Description of Test Facility

Name : Intertek Testing Services Shanghai

Address : Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China

Telephone : 86 21 61278200

Telefax : 86 21 54262353

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

CNAS Accreditation Lab

Registration No. CNAS L0139

FCC Accredited Lab

Designation Number: CN1175

IC Registration Lab

Registration code No.: 2042B-1

VCCI Registration Lab

Registration No.: R-4243, G-845, C-4723, T-2252

NVLAP Accreditation Lab

NVLAP LAB CODE: 200849-0

A2LA Accreditation Lab

Certificate Number: 3309.02

2. Test Specification

2.1 Instrument list

| Conducted Emission | | | | | |
|-------------------------------------|-----------------------------|-------------------|-----------------|--------------|------------|
| Used | Equipment | Manufacturer | Type | Internal no. | Due date |
| <input checked="" type="checkbox"/> | Test Receiver | R&S | ESCS 30 | EC 2107 | 2018-10-18 |
| <input checked="" type="checkbox"/> | A.M.N. | R&S | ESH2-Z5 | EC 3119 | 2018-12-01 |
| <input checked="" type="checkbox"/> | Shielded room | Zhongyu | - | EC 2838 | 2019-01-08 |
| Radiated Emission | | | | | |
| Used | Equipment | Manufacturer | Type | Internal no. | Due date |
| <input checked="" type="checkbox"/> | Test Receiver | R&S | ESIB 26 | EC 3045 | 2018-10-18 |
| <input checked="" type="checkbox"/> | Bilog Antenna | TESEQ | CBL 6112D | EC 4206 | 2018-05-30 |
| <input checked="" type="checkbox"/> | Horn antenna | R&S | HF 906 | EC 3049 | 2018-09-22 |
| <input checked="" type="checkbox"/> | Horn antenna | ETS | 3117 | EC 4792-1 | 2018-08-23 |
| <input checked="" type="checkbox"/> | Horn antenna | TOYO | HAP18-26W | EC 4792-3 | 2020-07-09 |
| <input checked="" type="checkbox"/> | Pre-amplifier | R&S | Pre-amp 18 | EC5881 | 2018-06-19 |
| <input checked="" type="checkbox"/> | Semi-anechoic chamber | Albatross project | - | EC 3048 | 2018-09-08 |
| RF test | | | | | |
| Used | Equipment | Manufacturer | Type | Internal no. | Due date |
| <input checked="" type="checkbox"/> | PXA Signal Analyzer | Keysight | N9030A | EC 5338 | 2018-09-10 |
| <input checked="" type="checkbox"/> | Power sensor | Agilent | U2021XA | EC 5338-1 | 2018-03-03 |
| <input checked="" type="checkbox"/> | Vector Signal Generator | Agilent | N5182B | EC 5175 | 2018-03-06 |
| <input checked="" type="checkbox"/> | MXG Analog Signal Generator | Agilent | N5181A | EC 5338-2 | 2018-03-03 |
| <input checked="" type="checkbox"/> | Test Receiver | R&S | ESCI 7 | EC 4501 | 2018-02-23 |
| Additional instrument | | | | | |
| Used | Equipment | Manufacturer | Type | Internal no. | Due date |
| <input checked="" type="checkbox"/> | Therom-Hygrograph | ZJ1-2A | S.M.I.F. | EC 3323 | 2018-06-14 |
| <input checked="" type="checkbox"/> | Therom-Hygrograph | ZJ1-2A | S.M.I.F. | EC 3324 | 2018-04-09 |
| <input checked="" type="checkbox"/> | Therom-Hygrograph | ZJ1-2A | S.M.I.F. | EC 3325 | 2018-03-23 |
| <input checked="" type="checkbox"/> | Pressure meter | YM3 | Shanghai Mengde | EC 3320 | 2018-06-28 |

2.2 Test Standard

47CFR Part 15 (2016)
ANSI C63.10 (2013)
DA 00-705
RSS-247 Issue 2 (February 2017)
RSS-Gen Issue 4 (November 2014)

2.3 Test Summary

This report applies to tested sample only. This report shall not be reproduced in part without written approval of Intertek Testing Service Shanghai Limited.

| TEST ITEM | FCC REFERANCE | IC REFERANCE | RESULT |
|---|-------------------|-------------------------------|--------|
| 20 dB Bandwidth | 15.247(a)(1) | RSS-247 Issue 2 Clause 5 | Tested |
| Carrier Frequency Separation | 15.247(a)(1) | RSS-247 Issue 2 Clause 5 | Pass |
| Output power | 15.247(b)(1) | RSS-247 Issue 2 Clause 5 | Pass |
| Radiated Spurious Emissions | 15.205 & 15.209 | RSS-247 Issue 2 Clause 5 | Pass |
| Conducted Spurious Emissions & Band Edge | 15.247(d) | RSS-247 Issue 2 Clause 5 | Pass |
| Power line conducted emission | 15.207 | RSS-Gen Issue 4 Clause 8.8 | Pass |
| Number of Hopping Frequencies | 15.247(a)(1)(iii) | RSS-247 Issue 2 Clause 5 | Pass |
| Dwell time | 15.247(a)(1)(iii) | RSS-247 Issue 2 Clause 5 | Pass |
| Occupied bandwidth | - | RSS-Gen Issue 4 Clause 6.6 | Tested |

Notes: 1: NA =Not Applicable

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2.4 Frequency Hopping System Requirement

Test Requirement: Section 15.247 (a)(1), (g), (h) requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

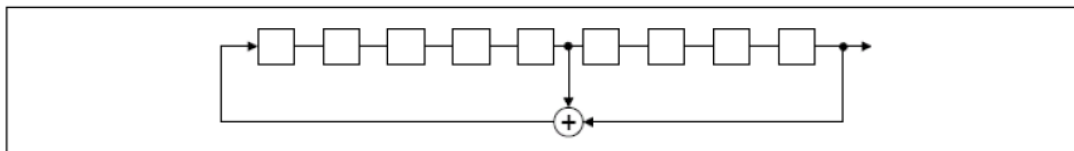
The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hop sets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Compliance for section 15.247(a)(1)

According to Bluetooth Core Specification, the pseudorandom sequence may be generated in a nine stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONES;

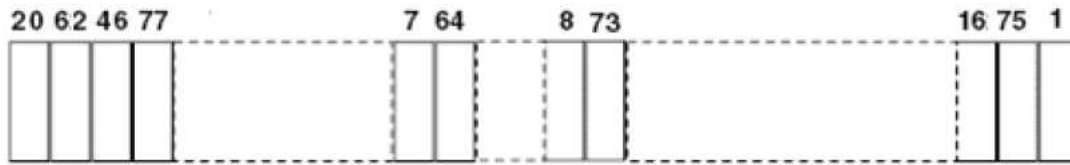
i.e. the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: $2^9 - 1 = 511$ bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter.

According to Bluetooth Core Specification, Bluetooth receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any Bluetooth transmitters and shift frequencies in synchronization with the transmitted signals.

Compliance for section 15.247(g)

According to Bluetooth Core Specification, the Bluetooth system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

Compliance for section 15.247(h)

According to Bluetooth Core specification, the Bluetooth system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

According to the Bluetooth Core specification, the Bluetooth system is designed not have the ability to coordinate with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.

2.5 Measurement uncertainty

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

| Test item | Measurement uncertainty |
|---|-------------------------|
| Maximum peak output power | ± 0.74dB |
| Radiated Emissions in restricted frequency bands below 1GHz | ± 4.90dB |
| Radiated Emissions in restricted frequency bands above 1GHz | ± 5.02dB |
| Emission outside the frequency band | ± 2.89dB |
| Power line conducted emission | ± 3.19dB |

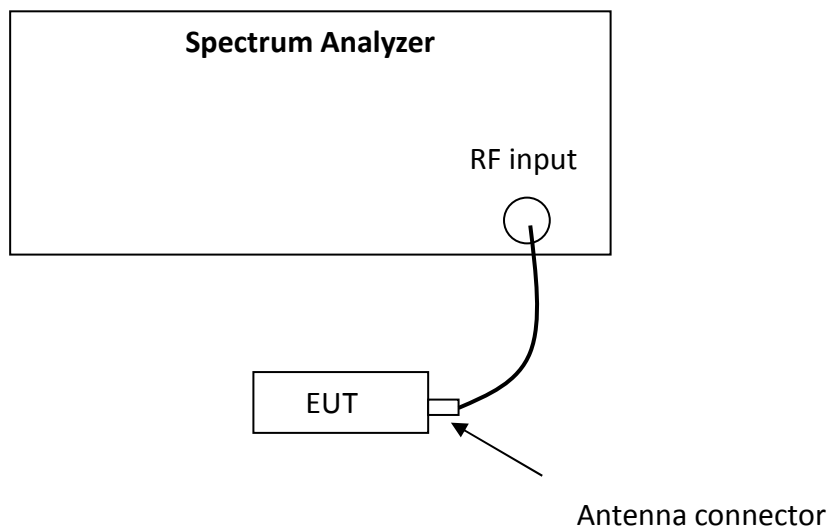
3. 20 dB Bandwidth

Test result: Tested

3.1 Limit

- 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.
- Frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125mW.

3.2 Test Configuration



3.3 Test Procedure and test setup

The 20 bandwidth per FCC §15.247(a)(1) is measured using the Spectrum Analyzer with Span = 2 to 3 times the 20 dB bandwidth, RBW \geq 1% of the 20 dB bandwidth, VBW \geq RBW, Sweep = auto, Detector = peak, Trace = max hold.

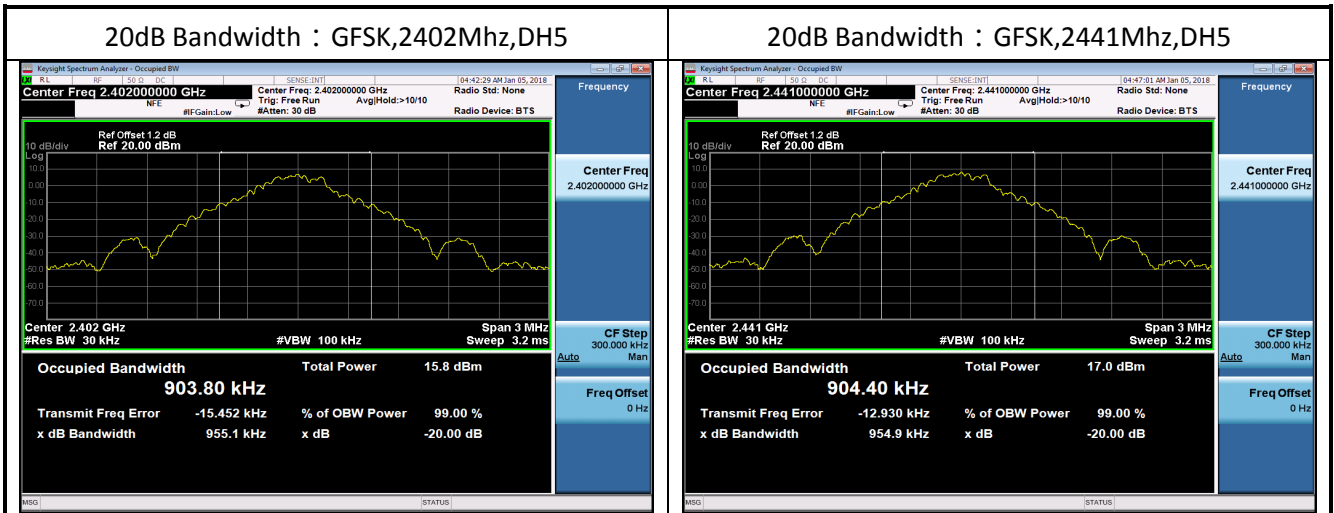
The test was performed at 3 channels (lowest, middle and highest channel).

The EUT was tested according to DA 00-705 (Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems)

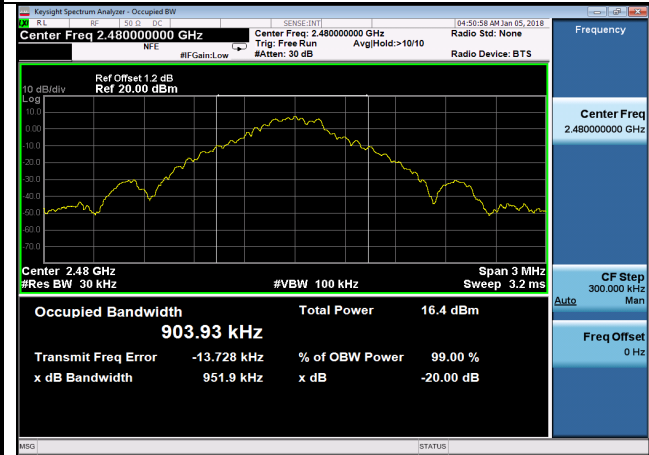
3.4 Test Protocol

Temperature : 25°C
Relative Humidity : 55 %

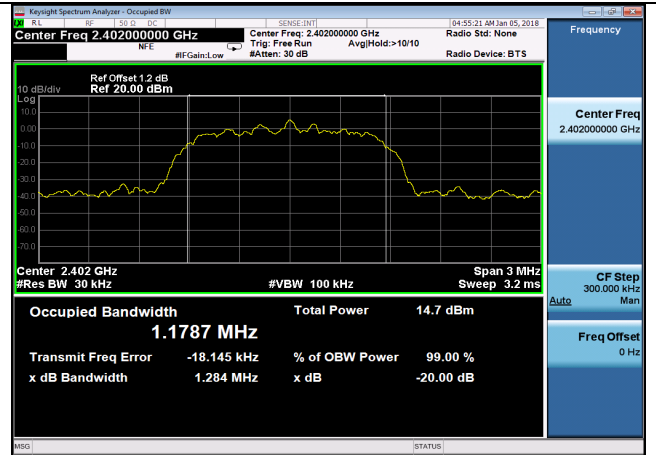
| BT 20dB Bandwidth | | | | | |
|-------------------|----------------|-------------|---------------------|------------------------------|--------|
| Mode | Test Frequency | Packet Type | 20dB Bandwidth(KHz) | Two-thirds of Bandwidth(KHz) | Result |
| GFSK | 2402 | DH5 | 955.1 | 636.73 | Pass |
| GFSK | 2441 | DH5 | 954.9 | 636.60 | Pass |
| GFSK | 2480 | DH5 | 951.9 | 634.60 | Pass |
| DQPSK | 2402 | 2DH5 | 1284 | 856.00 | Pass |
| DQPSK | 2441 | 2DH5 | 1283 | 855.33 | Pass |
| DQPSK | 2480 | 2DH5 | 1284 | 856.00 | Pass |
| 8DPSK | 2402 | 3DH5 | 1293 | 862.00 | Pass |
| 8DPSK | 2441 | 3DH5 | 1292 | 861.33 | Pass |
| 8DPSK | 2480 | 3DH5 | 1293 | 862.00 | Pass |



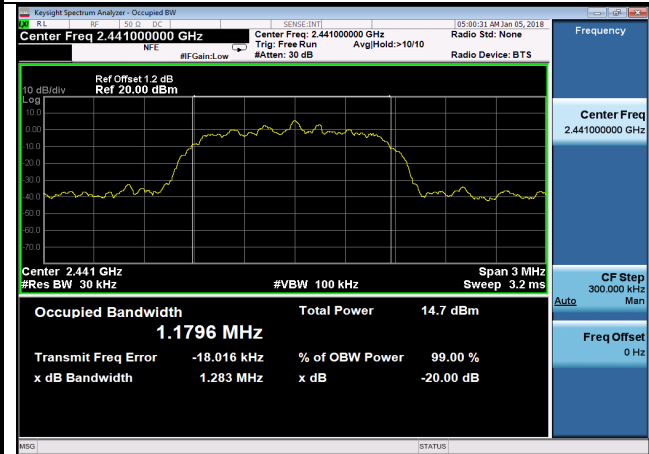
20dB Bandwidth : GFSK,2480Mhz,DH5



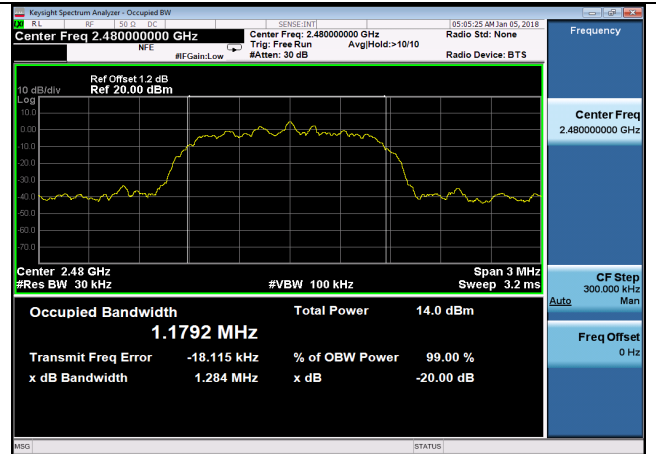
20dB Bandwidth : DQPSK,2402Mhz,2DH5



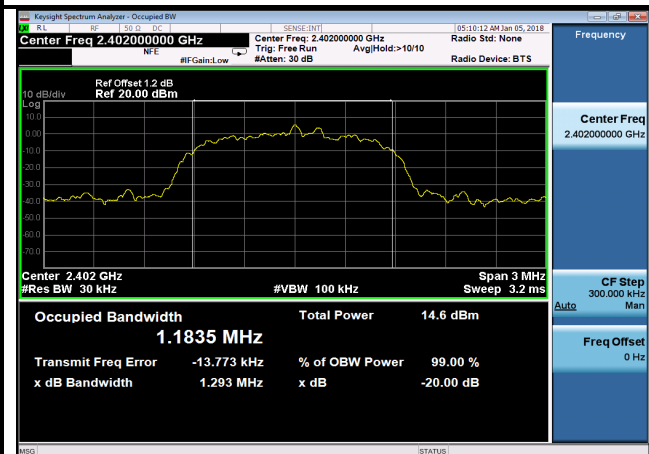
20dB Bandwidth : DQPSK,2441Mhz,2DH5



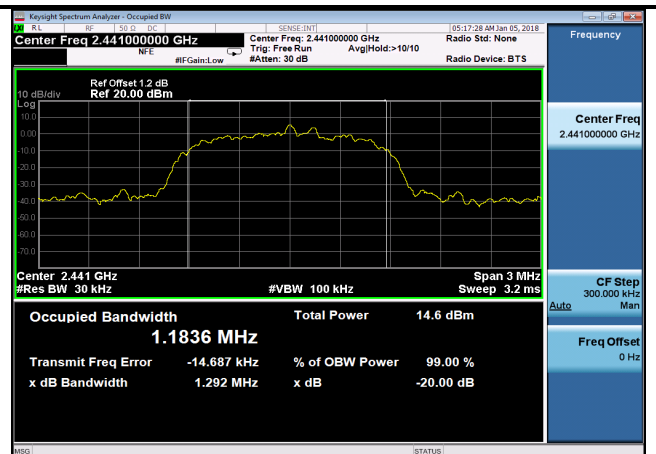
20dB Bandwidth : DQPSK,2480Mhz,2DH5

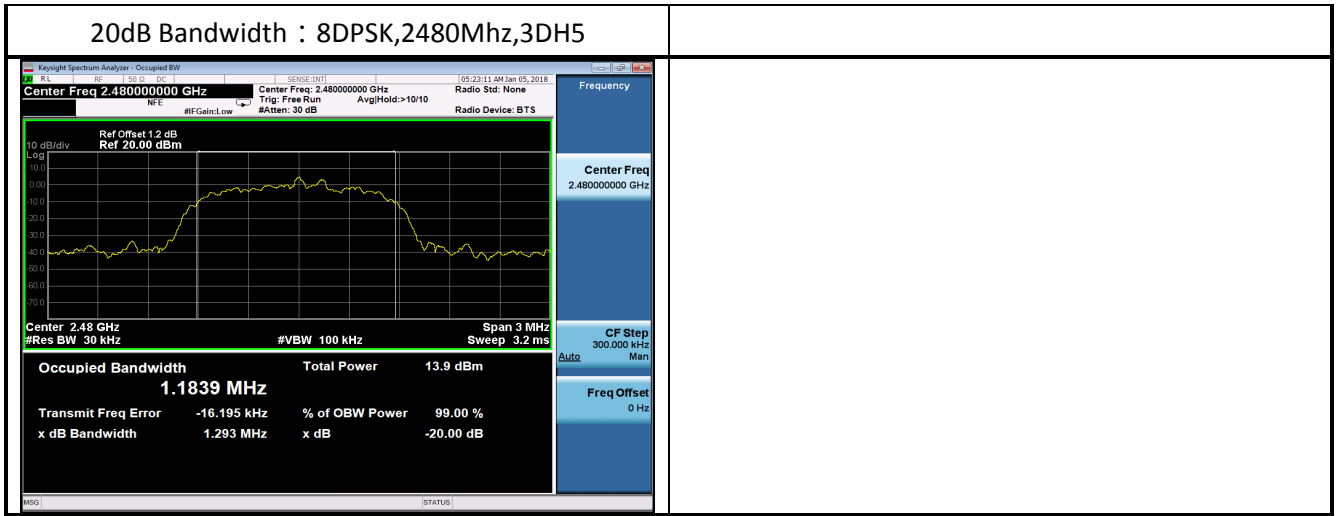


20dB Bandwidth : 8DPSK,2402Mhz,3DH5



20dB Bandwidth : 8DPSK,2441Mhz,3DH5





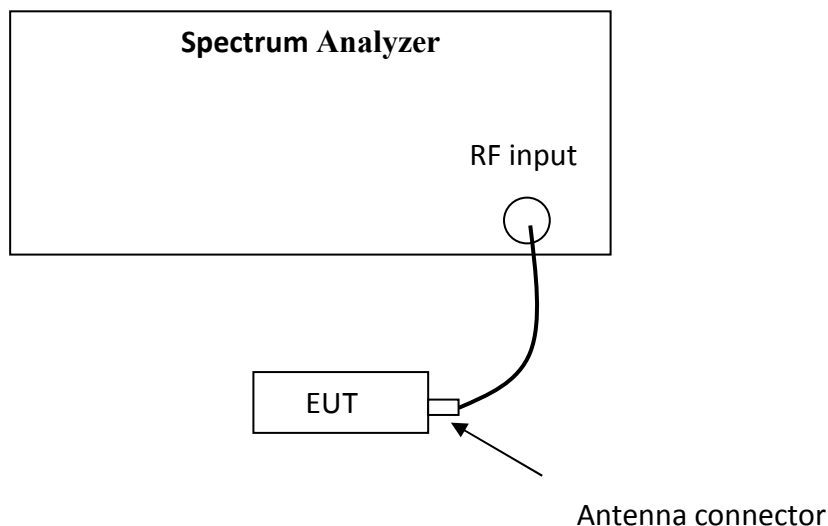
4. Carrier Frequency Separation

Test result: Pass

4.1 Limit

- Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.
- Frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125mW.

4.2 Test Configuration



4.3 Test Procedure and test setup

The Carrier Frequency Separation per FCC §15.247(a)(1) is measured using the Spectrum Analyzer with Span can capture two adjacent channels, $RBW \geq 1\%$ of the span, $VBW \geq RBW$, Sweep = auto, Detector = peak, Trace = max hold.

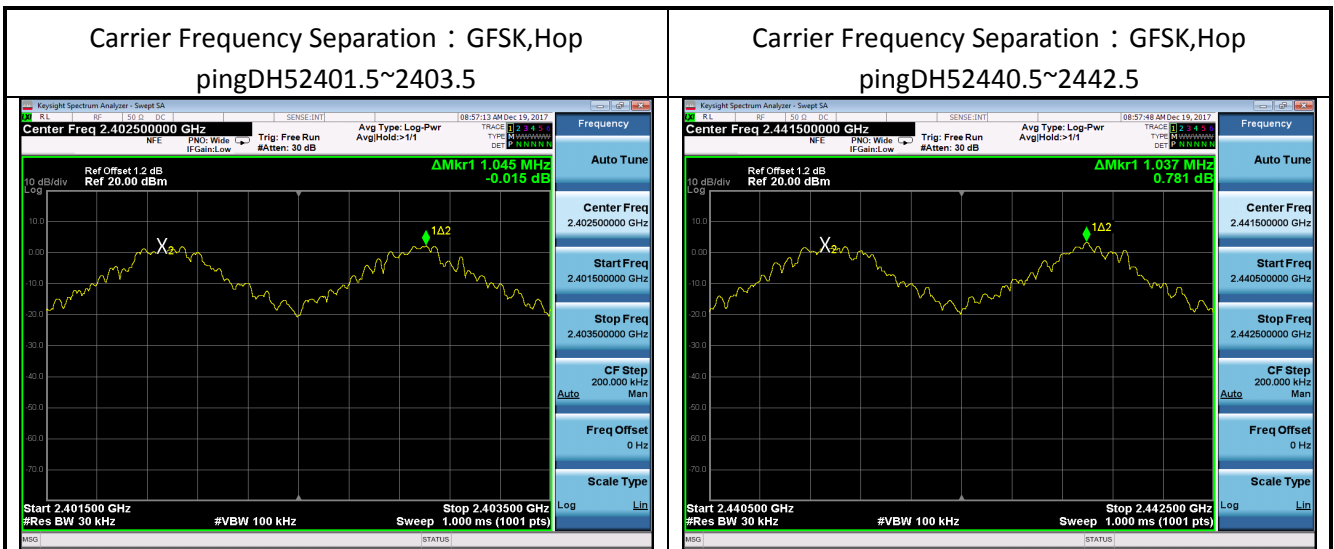
The test was performed at 3 channels (lowest, middle and highest channel).

The EUT was tested according to DA 00-705 (Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems)

4.4 Test Protocol

Temperature : 25°C
Relative Humidity : 55 %

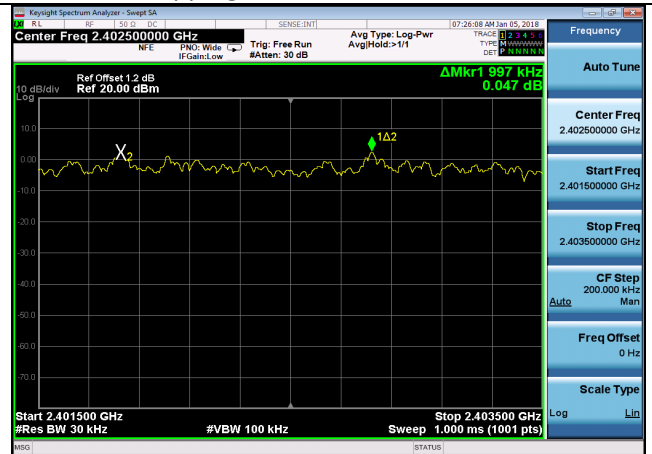
| BT Carrier Frequency Separation | | | | | |
|---------------------------------|----------------|-------------|---------------------|----------------|--------|
| Mode | Test Frequency | Packet Type | Range(MHz~MHz) | Sepration(kHz) | Result |
| GFSK | Hopping | DH5 | 2401.5Mhz~2403.5Mhz | 1045 | Pass |
| GFSK | Hopping | DH5 | 2440.5Mhz~2442.5Mhz | 1037 | Pass |
| GFSK | Hopping | DH5 | 2478.5Mhz~2480.5Mhz | 1073 | Pass |
| DQPSK | Hopping | 2DH5 | 2401.5Mhz~2403.5Mhz | 997 | Pass |
| DQPSK | Hopping | 2DH5 | 2440.5Mhz~2442.5Mhz | 1169 | Pass |
| DQPSK | Hopping | 2DH5 | 2478.5Mhz~2480.5Mhz | 1171 | Pass |
| 8DPSK | Hopping | 3DH5 | 2401.5Mhz~2403.5Mhz | 1001 | Pass |
| 8DPSK | Hopping | 3DH5 | 2440.5Mhz~2442.5Mhz | 1085 | Pass |
| 8DPSK | Hopping | 3DH5 | 2478.5Mhz~2480.5Mhz | 1031 | Pass |



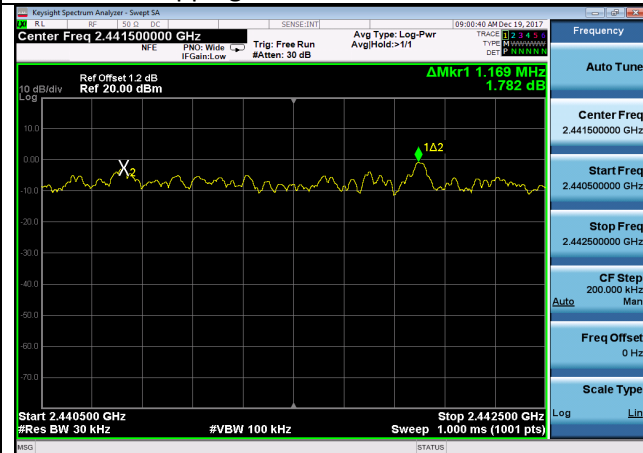
Carrier Frequency Separation : GFSK,Hop
pingDH52478.5~2480.5



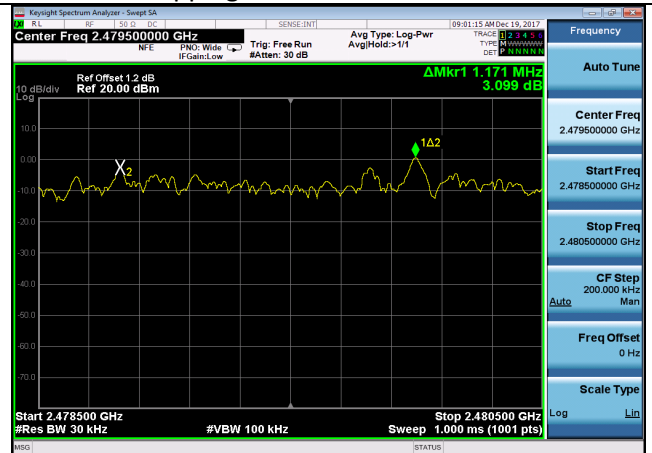
Carrier Frequency Separation : DQPSK, Ho
pping2DH52401.5~2403.5



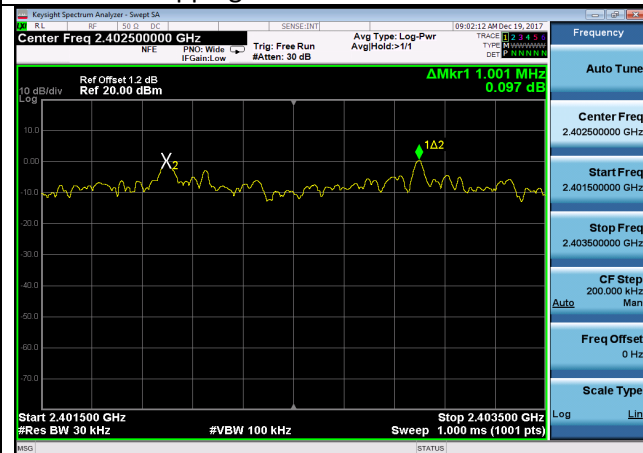
Carrier Frequency Separation : DQPSK, Ho
pping2DH52440.5~2442.5



Carrier Frequency Separation : DQPSK, Ho
pping2DH52478.5~2480.5



Carrier Frequency Separation : 8DPSK, Ho
pping3DH52401.5~2403.5



Carrier Frequency Separation : 8DPSK, Ho
pping3DH52440.5~2442.5



Carrier Frequency Separation : 8DPSK, Ho
pping 3DH52478.5~2480.5



5. Maximum peak output power

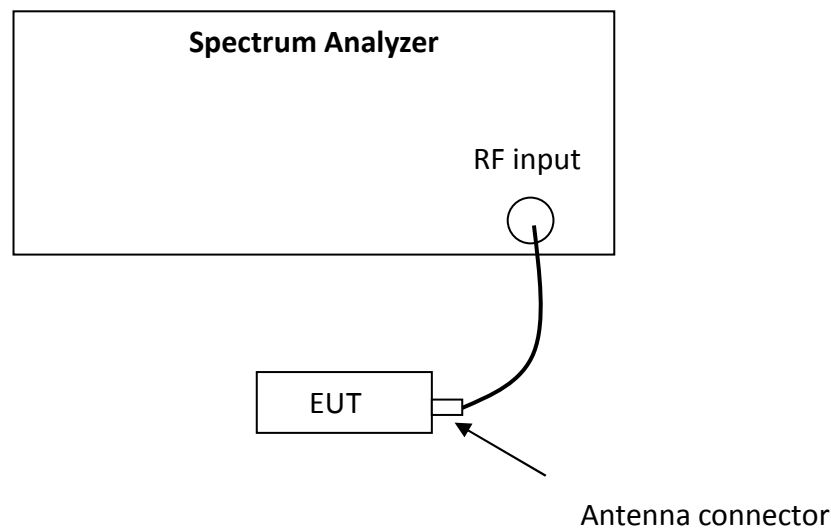
Test result: Pass

5.1 Test limit

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt

For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts
If the transmitting antenna of directional gain greater than 6dBi is used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.
For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.

5.2 Test Configuration



5.3 Test procedure and test setup

The power output per FCC §15.247(b) is measured using the Spectrum Analyzer with Span = 5 times the 20 dB bandwidth, RBW \geq the 20 dB bandwidth, VBW \geq RBW, Sweep = auto, Detector = peak, Trace = max hold.

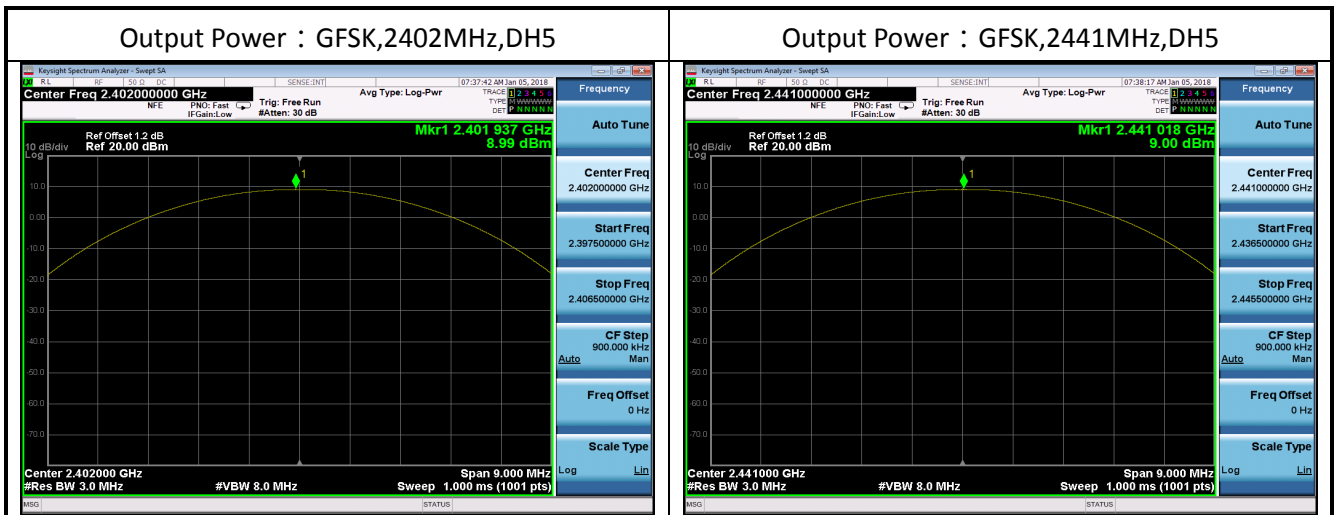
The test was performed at 3 channels (lowest, middle and highest channel).

The EUT was tested according to DA 00-705 (Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems)

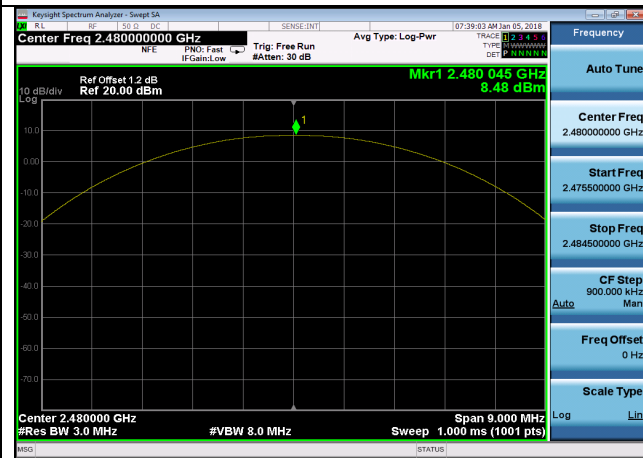
5.4 Test protocol

Temperature : 25 °C
Relative Humidity : 55 %

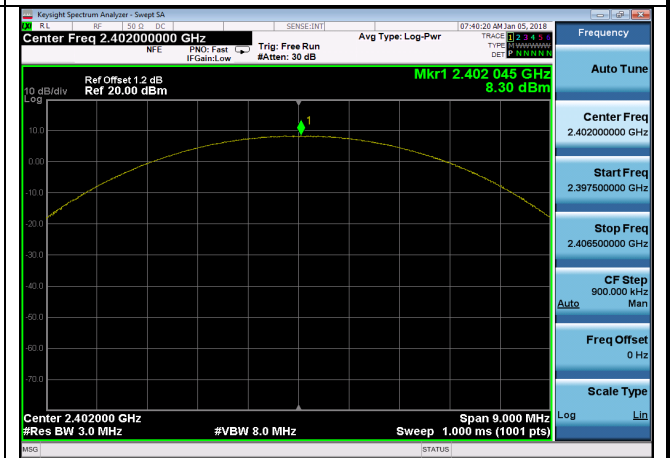
| BT Maximum Output Power | | | | |
|-------------------------|----------------|-------------|------------|--------|
| Mode | Test Frequency | Packet Type | Power(dBm) | Result |
| GFSK | 2402 | DH5 | 8.99 | Pass |
| GFSK | 2441 | DH5 | 9.00 | Pass |
| GFSK | 2480 | DH5 | 8.48 | Pass |
| DQPSK | 2402 | 2DH5 | 8.30 | Pass |
| DQPSK | 2441 | 2DH5 | 8.35 | Pass |
| DQPSK | 2480 | 2DH5 | 7.82 | Pass |
| 8DPSK | 2402 | 3DH5 | 7.36 | Pass |
| 8DPSK | 2441 | 3DH5 | 7.37 | Pass |
| 8DPSK | 2480 | 3DH5 | 6.78 | Pass |



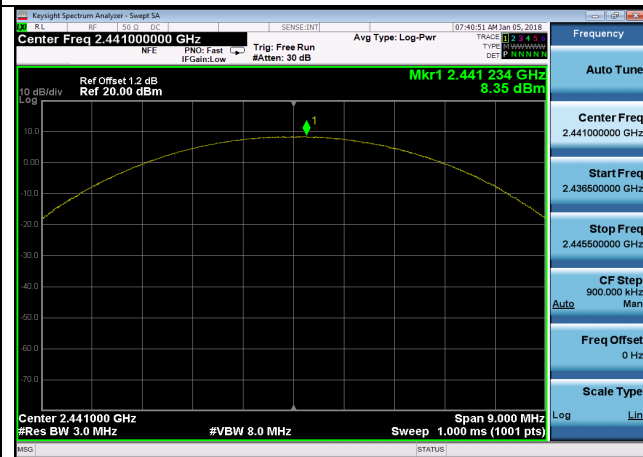
Output Power : GFSK,2480MHz,DH5



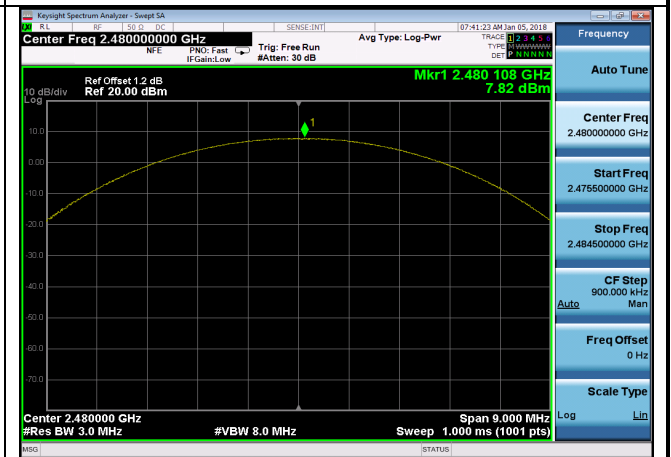
Output Power : DQPSK,2402MHz,2DH5



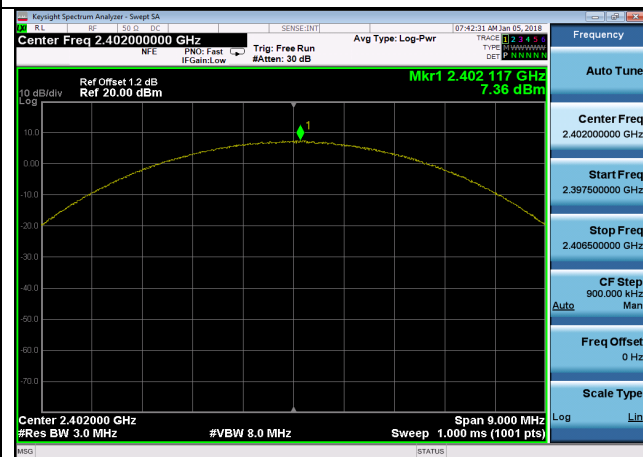
Output Power : DQPSK,2441MHz,2DH5



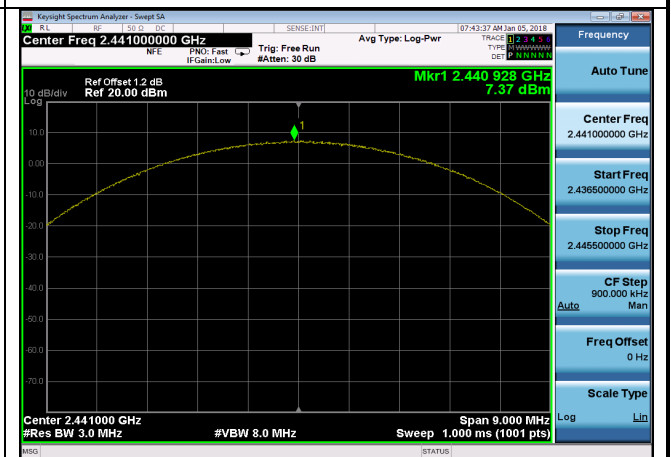
Output Power : DQPSK,2480MHz,2DH5

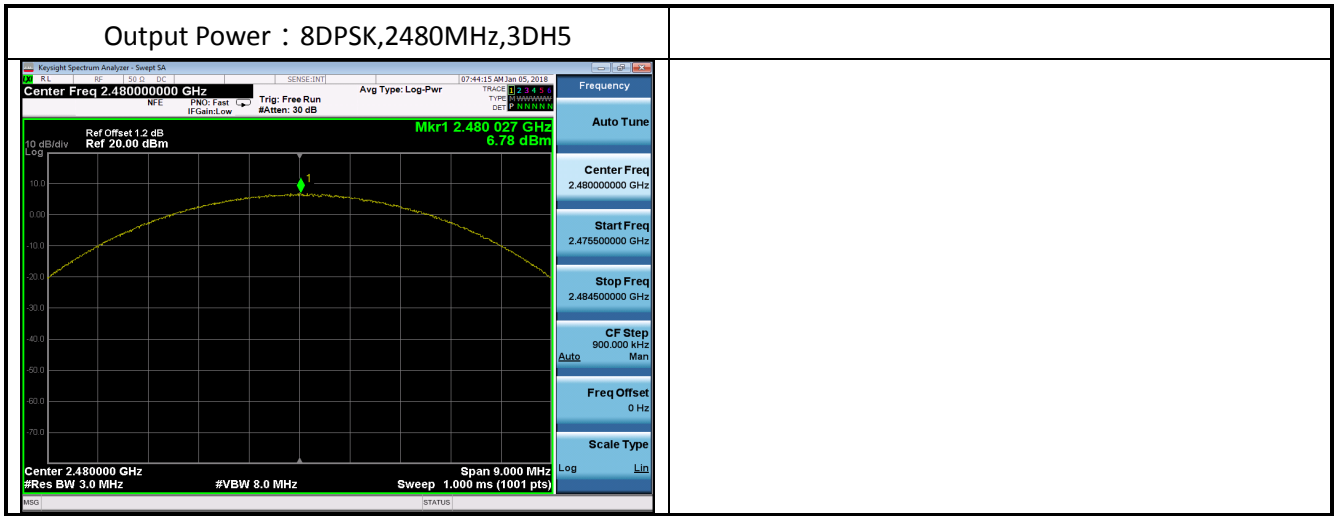


Output Power : 8DPSK,2402MHz,3DH5



Output Power : 8DPSK,2441MHz,3DH5





Conclusion: The maximum EIRP = 9.0dBm+4.2dBi = 13.2dBm = 0.021W which is lower than the limit of 4W listed in RSS-247.