




FCC Radio Test Report

FCC ID: 2AVAA-XN002

Original Grant

Report No. : TB-FCC170184
Applicant : Shenzhen Double New Technology Co.,Ltd
Equipment Under Test (EUT)
EUT Name : Micro laser engraving machine
Model No. : XN002
Series Model No. : XN003,XN004,XN005,XN006,XN007,XN008
Brand Name : ----
Receipt Date : 2019-10-30
Test Date : 2019-10-30 to 2019-11-25
Issue Date : 2019-12-03
Standards : FCC Part 15, Subpart C(15.247 :2019)
Test Method : ANSI C63.10: 2013
Conclusions : **PASS**
In the configuration tested, the EUT complied with the standards specified above,
Test/Witness Engineer :  Garen
Engineer Supervisor :  Ivan Su
Engineer Manager :  Ray Lai

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

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Revision History

| Report No. | Version | Description | Issued Date |
|--------------|---------|-------------------------|-------------|
| TB-FCC170184 | Rev.01 | Initial issue of report | 2019-12-03 |
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1. General Information about EUT

1.1 Client Information

| | | |
|---------------------|---|---|
| Applicant | : | Shenzhen Double New Technology Co.,Ltd |
| Address | : | 301B, No.13, phase I, zone 3, Xinhe community, Fuhai street, Bao'an District, Shenzhen, China |
| Manufacturer | : | Shenzhen Double New Technology Co.,Ltd |
| Address | : | 301B, No.13, phase I, zone 3, Xinhe community, Fuhai street, Bao'an District, Shenzhen, China |

1.2 General Description of EUT (Equipment Under Test)

| | | | |
|-------------------------------|---|--|---|
| EUT Name | : | Micro laser engraving machine | |
| Models No. | : | XN002,XN003,XN004,XN005,XN006,XN007,XN008 | |
| Model Difference | : | All these models are in the same PCB, layout and electrical circuit, the only difference is color. | |
| Product Description | : | Operation Frequency: | Bluetooth V4.1: 2402~2480 MHz |
| | : | Number of Channel: | Bluetooth: 79 Channels See Note 2 |
| | : | Max Peak Output Power: | Bluetooth: -0.648dBm(8-DPSK) |
| | : | Antenna Gain: | 1.5dBi PCB Antenna |
| | : | Modulation Type: | GFSK (1 Mbps) Pi/4-DQPSK (2 Mbps) 8-DPSK (3 Mbps) |
| Power Supply | : | DC Voltage Supply from AC/DC Adapter. | |
| Power Rating | : | AC/DC Adapter 1: GQ12-050200-ZU Input: 100~240V/50~60Hz 0.4A Output: 5V 2A | |
| | : | AC/DC Adapter 2:GQ24-120200-AU Input: 100~240V/50~60Hz 1.0A Output: 12V 2.0A | |
| Software Version | : | V1.0 | |
| Hardware Version | : | V1.8 | |
| Connecting I/O Port(S) | : | Please refer to the User's Manual | |
| Remark | : | The antenna gain provided by the applicant, the verified for the RF conduction test provided by TOBY test lab. | |

Note:

(1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

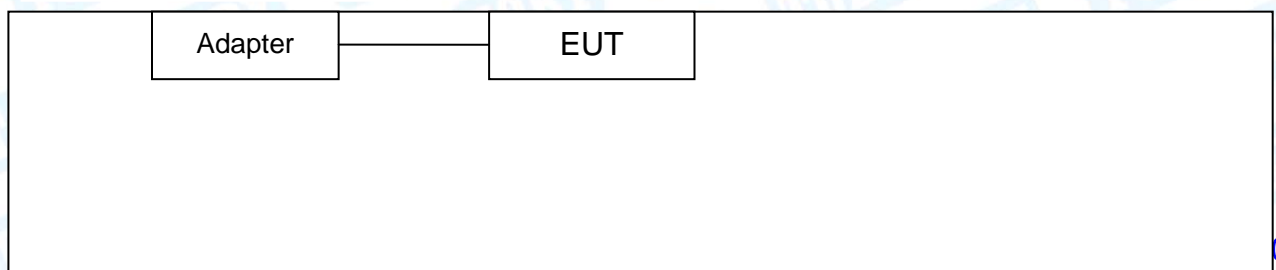
(2) Channel List:

| Bluetooth Channel List | | | | | |
|------------------------|-----------------|---------|-----------------|---------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 00 | 2402 | 27 | 2429 | 54 | 2456 |
| 01 | 2403 | 28 | 2430 | 55 | 2457 |
| 02 | 2404 | 29 | 2431 | 56 | 2458 |
| 03 | 2405 | 30 | 2432 | 57 | 2459 |
| 04 | 2406 | 31 | 2433 | 58 | 2460 |
| 05 | 2407 | 32 | 2434 | 59 | 2461 |
| 06 | 2408 | 33 | 2435 | 60 | 2462 |
| 07 | 2409 | 34 | 2436 | 61 | 2463 |
| 08 | 2410 | 35 | 2437 | 62 | 2464 |
| 09 | 2411 | 36 | 2438 | 63 | 2465 |
| 10 | 2412 | 37 | 2439 | 64 | 2466 |
| 11 | 2413 | 38 | 2440 | 65 | 2467 |
| 12 | 2414 | 39 | 2441 | 66 | 2468 |
| 13 | 2415 | 40 | 2442 | 67 | 2469 |
| 14 | 2416 | 41 | 2443 | 68 | 2470 |
| 15 | 2417 | 42 | 2444 | 69 | 2471 |
| 16 | 2418 | 43 | 2445 | 70 | 2472 |
| 17 | 2419 | 44 | 2446 | 71 | 2473 |
| 18 | 2420 | 45 | 2447 | 72 | 2474 |
| 19 | 2421 | 46 | 2448 | 73 | 2475 |
| 20 | 2422 | 47 | 2449 | 74 | 2476 |
| 21 | 2423 | 48 | 2450 | 75 | 2477 |
| 22 | 2424 | 49 | 2451 | 76 | 2478 |
| 23 | 2425 | 50 | 2452 | 77 | 2479 |
| 24 | 2426 | 51 | 2453 | 78 | 2480 |
| 25 | 2427 | 52 | 2454 | | |
| 26 | 2428 | 53 | 2455 | | |

(3) The Antenna information about the equipment is provided by the applicant.

1.3 Block Diagram Showing the Configuration of System Tested

TX Mode



1.4 Description of Support Units

| Equipment Information | | | | |
|-----------------------|-----------|------------|--------------|--------------------------|
| Name | Model | FCC ID/VOC | Manufacturer | Note |
| Notebook | 161301-CN | ---- | Xiaomi | Provided by the test lab |

1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

| For Conducted Test | |
|--------------------|---------------------|
| Final Test Mode | Description |
| Mode 1 | Adapter 2 + TX Mode |

| For Radiated Test | |
|-------------------|--|
| Final Test Mode | Description |
| Mode 1 | Adapter 2 + TX GFSK Mode |
| Mode 2 | Adapter 2 + TX Mode(GFSK) Channel 00/39/78 |
| Mode 3 | Adapter 2 + TX Mode(Pi/4-DQPSK) Channel 00/39/78 |
| Mode 4 | Adapter 2 + TX Mode(8-DPSK) Channel 00/39/78 |
| Mode 5 | Adapter 2 + Hopping Mode(GFSK) |
| Mode 6 | Adapter 2 + Hopping Mode(Pi/4-DQPSK) |
| Mode 7 | Adapter 2 + Hopping Mode(8-DPSK) |

Both adapters were tested, and the report shows only the worst pattern: adapter 2

Note:

- (1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate. We have pretested all the test modes above.

According to ANSI C63.10 standards, the measurements are performed at the highest, middle, lowest available channels, and the worst case data rate as follows:

- TX Mode: GFSK (1 Mbps)
- TX Mode:Pi/4-DQPSK (2 Mbps)
- TX Mode: 8-DPSK (3Mbps)

- (2) The EUT is considered a portable unit; it was pre-tested on the positioned of each 3 axis,

X-plane, Y-plane and Z-plane. The worst case was found positioned on X-plane as the normal use. Therefore only the test data of this X-plane was used for radiated emission measurement test.

1.6 Description of Test Software Setting

During testing channel power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of Bluetooth mode.

| Test Software Version | FCC Test Tool | | |
|-----------------------|---------------|---------|----------|
| Frequency | 2402 MHz | 2441MHz | 2480 MHz |
| GFSK | DEF | DEF | DEF |
| Pi/4-DQPSK | DEF | DEF | DEF |
| 8-DPSK | DEF | DEF | DEF |

1.7 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

| Test Item | Parameters | Expanded Uncertainty (U_{Lab}) |
|--------------------|---|------------------------------------|
| Conducted Emission | Level Accuracy: 9kHz~150kHz 150kHz to 30MHz | ± 3.42 dB ± 3.42 dB |
| Radiated Emission | Level Accuracy: 9kHz to 30 MHz | ± 4.60 dB |
| Radiated Emission | Level Accuracy: 30MHz to 1000 MHz | ± 4.40 dB |
| Radiated Emission | Level Accuracy: Above 1000MHz | ± 4.20 dB |

1.8 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.

IC Registration No.: (11950A-1)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.

2. Test Summary

| FCC Part 15 Subpart C(15.247)/ RSS 247 Issue 1 | | | | |
|---|--------------------|--|----------|--------|
| Standard Section | | Test Item | Judgment | Remark |
| FCC | IC | | | |
| 15.203 | | Antenna Requirement | PASS | N/A |
| 15.207 | RSS-GEN 7.2.2 | Conducted Emission | PASS | N/A |
| 15.205 | RSS-Gen 7.2.3 | Restricted Bands | PASS | N/A |
| 15.247(a)(1) | RSS 247 5.1 (2) | Hopping Channel Separation | PASS | N/A |
| 15.247(a)(1) | RSS 247 5.1 (4) | Dwell Time | PASS | N/A |
| 15.247(b)(1) | RSS 247 5.4 (2) | Peak Output Power | PASS | N/A |
| 15.247(b)(1) | RSS 247 5.1 (4) | Number of Hopping Frequency | PASS | N/A |
| 15.247(d) | RSS 247 5.5 | Band Edge | PASS | N/A |
| 15.247(c)& 15.209 | RSS 247 5.5 | Radiated Spurious Emission | PASS | N/A |
| 15.247(a) | RSS 247 5.1 (1) | 99% Occupied Bandwidth & 20dB Bandwidth | PASS | N/A |
| Note: (1)"/" for no requirement for this test item. (2)N/A is an abbreviation for Not Applicable. (3)All tests were conducted using the adapter and antenna gain provided by the applicant, The laboratory tests only according to the information provided by the applicant. | | | | |

Test Software

| Test Item | Test Software | Manufacturer | Version No. |
|-----------------------------|---------------|--------------|-------------|
| Conducted Emission | EZ-EMC | EZ | CDI-03A2 |
| Radiation Emission | EZ-EMC | EZ | FA-03A2RE |
| RF Conducted Measurement | MTS-8310 | MWRFTest | V2.0.0.0 |

3. Test Equipment

| Conducted Emission Test | | | | | |
|----------------------------|----------------------------------|-------------------|---------------------------|---------------|---------------|
| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Due Date |
| EMI Test Receiver | Rohde & Schwarz | ESCI | 100321 | Jul. 13, 2019 | Jul. 12, 2020 |
| RF Switching Unit | Compliance Direction Systems Inc | RSU-A4 | 34403 | Jul. 13, 2019 | Jul. 12, 2020 |
| AMN | SCHWARZBECK | NNBL 8226-2 | 8226-2/164 | Jul. 13, 2019 | Jul. 12, 2020 |
| LISN | Rohde & Schwarz | ENV216 | 101131 | Jul. 13, 2019 | Jul. 12, 2020 |
| Radiation Emission Test | | | | | |
| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Due Date |
| Spectrum Analyzer | Agilent | E4407B | MY45106456 | Jul. 13, 2019 | Jul. 12, 2020 |
| EMI Test Receiver | Rohde & Schwarz | ESPI | 100010/007 | Jul. 13, 2019 | Jul. 12, 2020 |
| Spectrum Analyzer | Rohde & Schwarz | FSVR | 1311.006K40-10094 5-DH | Feb. 10, 2019 | Feb. 09, 2020 |
| Bilog Antenna | ETS-LINDGREN | 3142E | 00117537 | Jan. 27, 2019 | Jan. 26, 2020 |
| Bilog Antenna | ETS-LINDGREN | 3142E | 00117542 | Jan. 27, 2019 | Jan. 26, 2020 |
| Horn Antenna | ETS-LINDGREN | 3117 | 00143207 | Mar.03, 2019 | Mar. 02, 2020 |
| Horn Antenna | ETS-LINDGREN | 3117 | 00143209 | Mar.03, 2019 | Mar. 02, 2020 |
| Horn Antenna | ETS-LINDGREN | BBHA 9170 | BBHA9170582 | Mar.03, 2019 | Mar. 02, 2020 |
| Loop Antenna | SCHWARZBECK | FMZB 1519 B | 1519B-059 | Jul. 13, 2019 | Jul. 12, 2020 |
| Pre-amplifier | Sonoma | 310N | 185903 | Mar.04, 2019 | Mar. 03, 2020 |
| Pre-amplifier | HP | 8449B | 3008A00849 | Mar.03, 2019 | Mar. 02, 2020 |
| Pre-amplifier | EMCI | EMC02325 | 980217 | Mar.03, 2019 | Mar. 02, 2020 |
| Cable | HUBER+SUHNER | 100 | SUCOFLEX | Mar.03, 2019 | Mar. 02, 2020 |
| Positioning Controller | ETS-LINDGREN | 2090 | N/A | N/A | N/A |
| Antenna Conducted Emission | | | | | |
| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Due Date |
| Spectrum Analyzer | Agilent | E4407B | MY45106456 | Jul. 13, 2019 | Jul. 12, 2020 |
| Spectrum Analyzer | Rohde & Schwarz | ESCI | 100010/007 | Jul. 13, 2019 | Jul. 12, 2020 |
| MXA Signal Analyzer | Agilent | N9020A | MY49100060 | Sep. 16, 2019 | Sep. 15, 2020 |
| Vector Signal Generator | Agilent | N5182A | MY50141294 | Sep. 16, 2019 | Sep. 15, 2020 |
| Analog Signal Generator | Agilent | N5181A | MY50141953 | Sep. 16, 2019 | Sep. 15, 2020 |
| RF Power Sensor | DARE!! Instruments | RadiPowerRPR3006W | 17I00015SNO26 | Sep. 16, 2019 | Sep. 15, 2020 |
| | DARE!! Instruments | RadiPowerRPR3006W | 17I00015SNO29 | Sep. 16, 2019 | Sep. 15, 2020 |
| | DARE!! Instruments | RadiPowerRPR3006W | 17I00015SNO31 | Sep. 16, 2019 | Sep. 15, 2020 |
| | DARE!! Instruments | RadiPowerRPR3006W | 17I00015SNO33 | Sep. 16, 2019 | Sep. 15, 2020 |

4. Conducted Emission Test

4.1 Test Standard and Limit

4.1.1 Test Standard
FCC Part 15.207

4.1.2 Test Limit

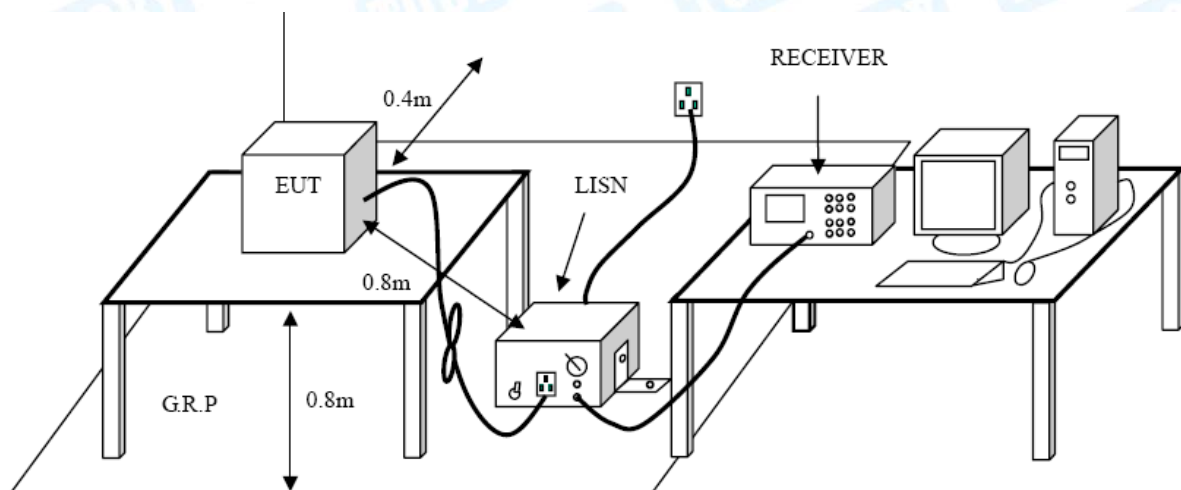
Conducted Emission Test Limit

| Frequency | Maximum RF Line Voltage (dB μ V) | |
|---------------|--------------------------------------|---------------|
| | Quasi-peak Level | Average Level |
| 150kHz~500kHz | 66 ~ 56 * | 56 ~ 46 * |
| 500kHz~5MHz | 56 | 46 |
| 5MHz~30MHz | 60 | 50 |

Notes:

- (1) *Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2 Test Setup



4.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

4.4 EUT Operating Mode

Please refer to the description of test mode.

4.5 Test Data

Please refer to the Attachment A.

5. Radiated Emission Test

5.1 Test Standard and Limit

5.1.1 Test Standard

FCC Part 15.209

5.1.2 Test Limit

Radiated Emission Limit (9 kHz~1000MHz)

| Frequency (MHz) | Field Strength (microvolt/meter) | Measurement Distance (meters) |
|-----------------|----------------------------------|-------------------------------|
| 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 |

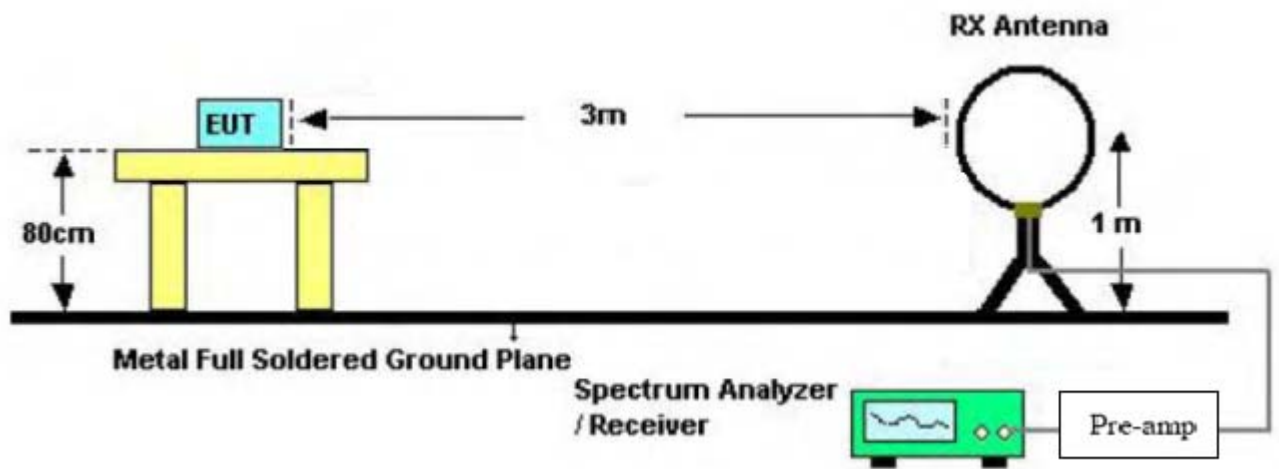
Radiated Emission Limit (Above 1000MHz)

| Frequency (MHz) | Class B (dBuV/m)(at 3m) | |
|-----------------|-------------------------|---------|
| | Peak | Average |
| Above 1000 | 74 | 54 |

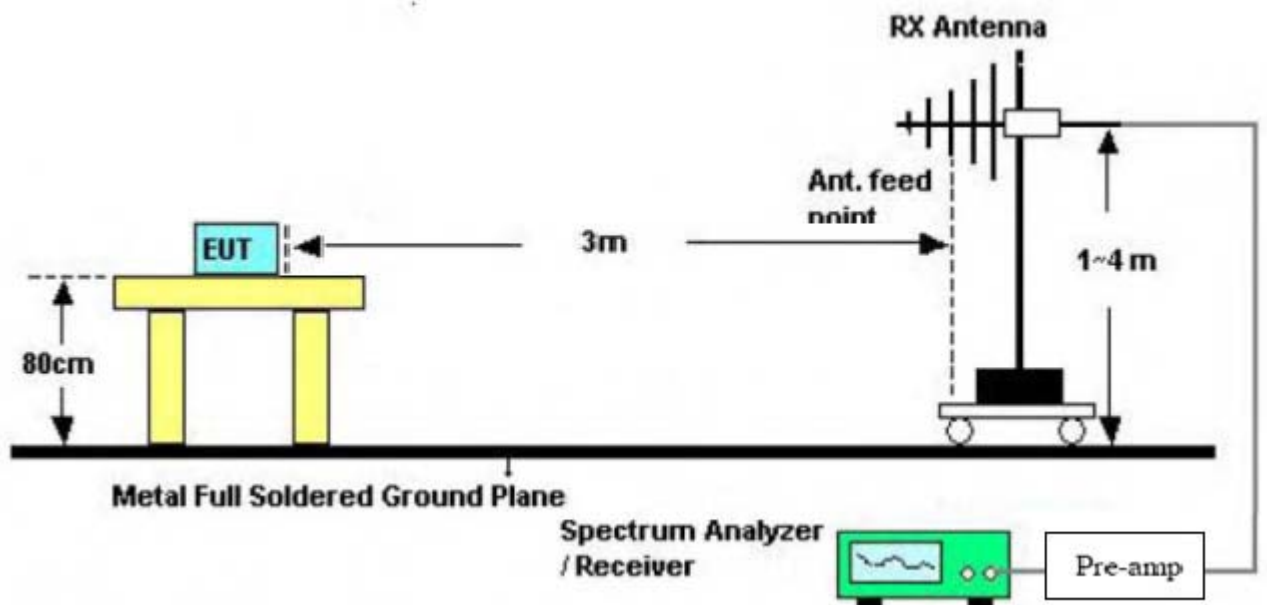
Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBuV/m)=20log Emission Level (uV/m)

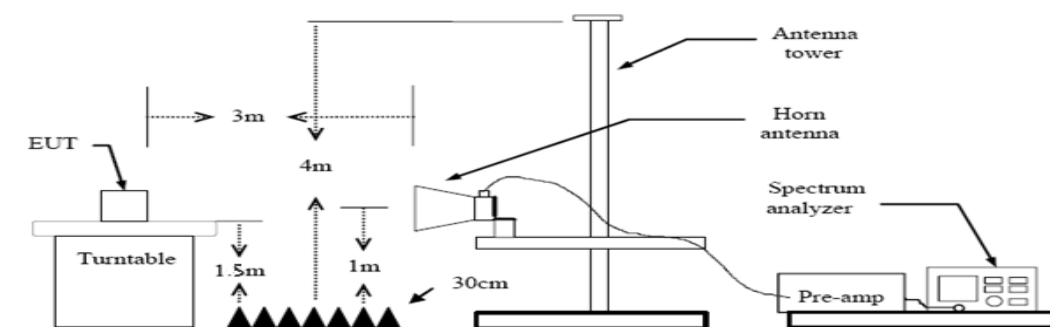
5.2 Test Setup



Below 30MHz Test Setup



Below 1000MHz Test Setup



Above 1GHz Test Setup

5.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

5.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power in TX mode.

5.5 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

Please refer to the Attachment B.

6. Restricted Bands Requirement

6.1 Test Standard and Limit

6.1.1 Test Standard

FCC Part 15.209

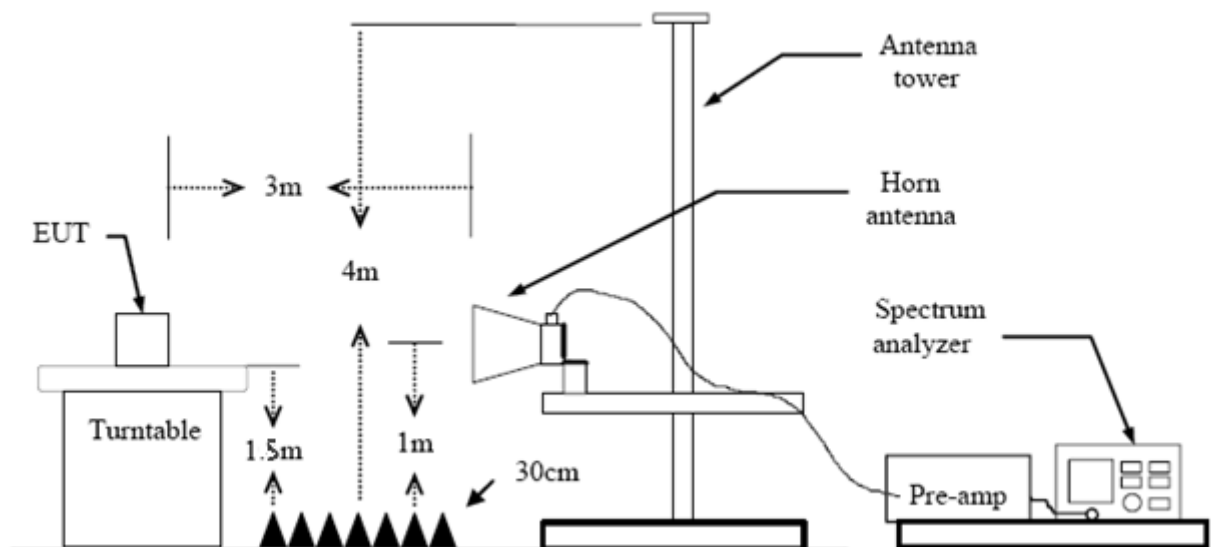
FCC Part 15.205

6.1.2 Test Limit

| Restricted Frequency Band (MHz) | Class B (dBuV/m)(at 3m) | |
|---------------------------------------|-------------------------|---------|
| | Peak | Average |
| 2310 ~2390 | 74 | 54 |
| 2483.5 ~2500 | 74 | 54 |

Note: All restriction bands have been tested, only the worst case is reported.

6.2 Test Setup



6.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.

-
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
 - (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
 - (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
 - (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
 - (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with AVG Detector for Average Values.
 - (8) For the actual test configuration, please see the test setup photo.

6.4 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

6.5 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

All restriction bands have been tested, only the worst case is reported.

Please refer to the Attachment C.

7. Number of Hopping Channel

7.1 Test Standard and Limit

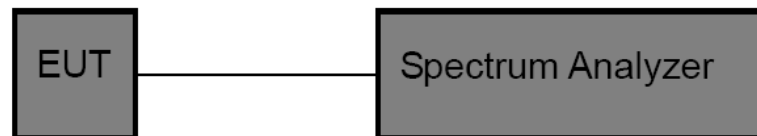
6.1.1 Test Standard

FCC Part 15.247 (a)(1)

6.1.2 Test Limit

| Section | Test Item | Limit |
|---------|---------------------------|-------|
| 15.247 | Number of Hopping Channel | >15 |

7.2 Test Setup



7.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting: RBW=100 KHz, VBW=300 KHz, Sweep time= Auto.

7.4 EUT Operating Condition

The EUT was set to the Hopping Mode by the Customer.

7.5 Test Data

Please refer to the Attachment D.

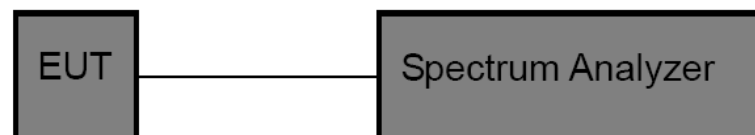
8. Average Time of Occupancy

8.1 Test Standard and Limit

- 8.1.1 Test Standard
FCC Part 15.247 (a)(1)
- 8.1.2 Test Limit

| Section | Test Item | Limit |
|---|------------------------------|---------|
| 15.247(a)(1)/ RSS-210 Annex 8(A8.1d) | Average Time of Occupancy | 0.4 sec |

8.2 Test Setup



8.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting: RBW=1MHz, VBW=3MHz.
- (3) Use video trigger with the trigger level set to enable triggering only on full pulses.
- (4) Sweep Time is more than once pulse time.
- (5) Set the center frequency on any frequency would be measure and set the frequency span to zero.
- (6) Measure the maximum time duration of one single pulse.
- (7) Set the EUT for packet transmitting.
- (8) Measure the maximum time duration of one single pulse.

8.4 EUT Operating Condition

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

$$\{\text{Total of Dwell}\} = \{\text{Pulse Time}\} * (1600 / X) / \{\text{Number of Hopping Frequency}\} * \{\text{Period}\}$$
$$\{\text{Period}\} = 0.4s * \{\text{Number of Hopping Frequency}\}$$

Note: X=2 or 4 or 6 (1DH1=2, 1DH3=4, 1DH5=6. 2DH1=2, 2DH3=4, 2DH5=6. 3DH1=2, 3DH3=4, 3DH5=6)

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.

The EUT was set to the Hopping Mode by the Customer.

8.5 Test Data

Please refer to the Attachment E.

9. Channel Separation and Bandwidth Test

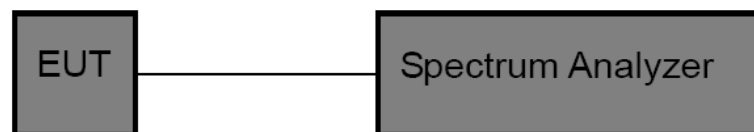
9.1 Test Standard and Limit

9.1.1 Test Standard
FCC Part 15.247

9.1.2 Test Limit

| Test Item | Limit | Frequency Range(MHz) |
|--------------------|---|----------------------|
| Bandwidth | ≤ 1 MHz (20dB bandwidth) | 2400~2483.5 |
| Channel Separation | >25 KHz or $>$ two-thirds of the 20 dB bandwidth Which is greater | 2400~2483.5 |

9.2 Test Setup



9.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting:
Channel Separation: RBW=100 kHz, VBW=300 kHz.
Bandwidth: RBW=30 kHz, VBW=100 kHz.
- (3) The bandwidth is measured at an amplitude level reduced 20dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst –case (i.e the widest) bandwidth.
- (4) Measure the channel separation the spectrum analyzer was set to Resolution Bandwidth:30 kHz, and Video Bandwidth:100 kHz. Sweep Time set auto.

9.4 EUT Operating Condition

The EUT was set to the Hopping Mode for Channel Separation Test and continuously transmitting for the Bandwidth Test.

9.5 Test Data

Please refer to the Attachment F.

10. Peak Output Power Test

10.1 Test Standard and Limit

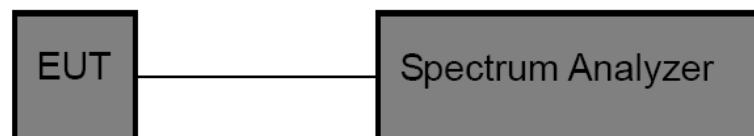
10.1.1 Test Standard

FCC Part 15.247 (b) (1)

10.1.2 Test Limit

| Test Item | Limit | Frequency Range(MHz) |
|-------------------|--|----------------------|
| Peak Output Power | Hopping Channels>75 Power<1W(30dBm) Other <125 mW(21dBm) | 2400~2483.5 |

10.2 Test Setup



10.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Spectrum Setting:
Peak Detector: RBW=1 MHz, VBW=3 MHz for bandwidth less than 1MHz.
RBW=3 MHz, VBW=8 MHz for bandwidth more than 1MHz.

10.4 EUT Operating Condition

The EUT was set to continuously transmitting in the max power during the test.

10.5 Test Data

Please refer to the Attachment G.

11. Antenna Requirement

11.1 Standard Requirement

11.1.1 Standard

FCC Part 15.203

11.1.2 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.

11.2 Antenna Connected Construction

The directional gains of the antenna used for transmitting is 1.5dBi, and the antenna connector is de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

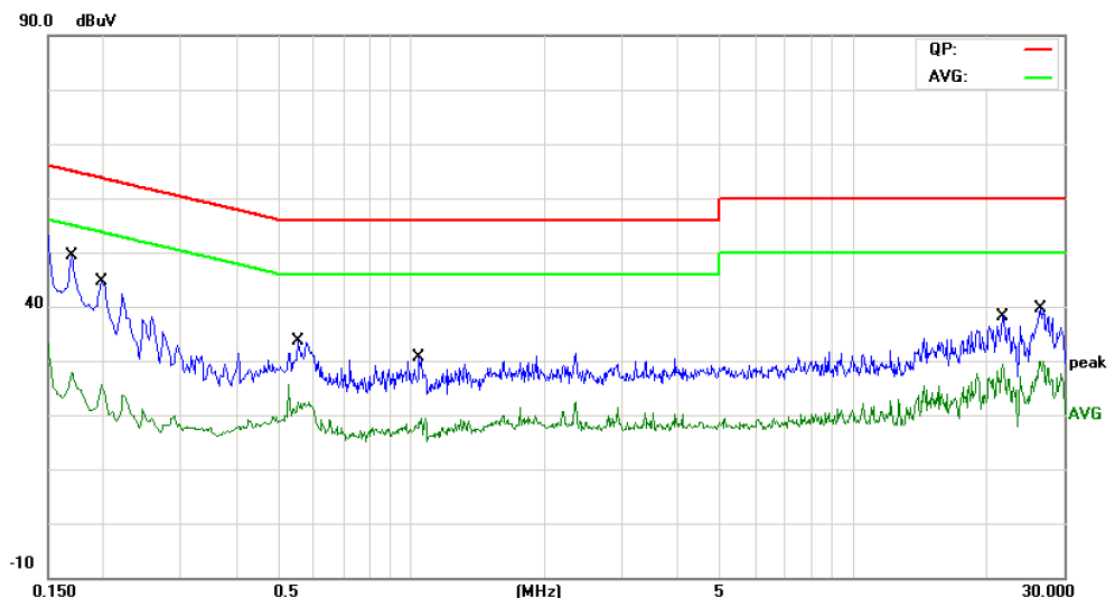
11.3 Result

The EUT antenna is a PCB Antenna. It complies with the standard requirement.

| Antenna Type | |
|-------------------------------------|-----------------------------------|
| <input checked="" type="checkbox"/> | Permanent attached antenna |
| <input type="checkbox"/> | Unique connector antenna |
| <input type="checkbox"/> | Professional installation antenna |

Attachment A-- Conducted Emission Test Data

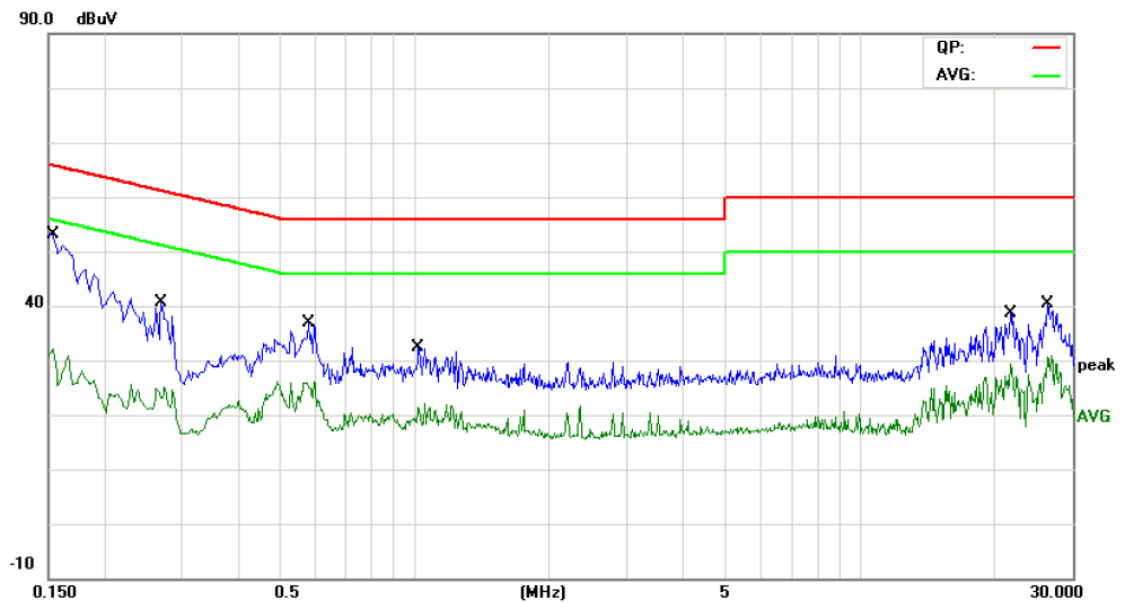
| | | | |
|---------------|-----------------------------|--------------------|-----|
| Temperature: | 25°C | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60 Hz | | |
| Terminal: | Line | | |
| Test Mode: | Adapter 2 + TX Mode | | |
| Remark: | Only worse case is reported | | |



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | |
|-----|-----|---------|---------------|----------------|-------------|-------|--------|----------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector |
| 1 | | 0.1700 | 30.59 | 9.79 | 40.38 | 64.96 | -24.58 | QP |
| 2 | | 0.1700 | 12.16 | 9.79 | 21.95 | 54.96 | -33.01 | AVG |
| 3 | | 0.1980 | 23.67 | 9.78 | 33.45 | 63.69 | -30.24 | QP |
| 4 | | 0.1980 | 10.44 | 9.78 | 20.22 | 53.69 | -33.47 | AVG |
| 5 | | 0.5540 | 16.66 | 9.96 | 26.62 | 56.00 | -29.38 | QP |
| 6 | | 0.5540 | 10.75 | 9.96 | 20.71 | 46.00 | -25.29 | AVG |
| 7 | | 1.0420 | 12.18 | 9.66 | 21.84 | 56.00 | -34.16 | QP |
| 8 | | 1.0420 | 6.93 | 9.66 | 16.59 | 46.00 | -29.41 | AVG |
| 9 | | 21.8180 | 24.80 | 9.51 | 34.31 | 60.00 | -25.69 | QP |
| 10 | * | 21.8180 | 19.68 | 9.51 | 29.19 | 50.00 | -20.81 | AVG |
| 11 | | 26.6298 | 24.75 | 9.24 | 33.99 | 60.00 | -26.01 | QP |
| 12 | | 26.6298 | 19.55 | 9.24 | 28.79 | 50.00 | -21.21 | AVG |

Emission Level= Read Level+ Correct Factor

| | | | |
|---------------|-----------------------------|--------------------|-----|
| Temperature: | 25°C | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60 Hz | | |
| Terminal: | Neutral | | |
| Test Mode: | Adapter 2 + TX Mode | | |
| Remark: | Only worse case is reported | | |



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | |
|-----|-----|---------|---------------|----------------|-------------|-------|--------|----------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector |
| 1 | | 0.1539 | 35.12 | 9.60 | 44.72 | 65.78 | -21.06 | QP |
| 2 | | 0.1539 | 15.00 | 9.60 | 24.60 | 55.78 | -31.18 | AVG |
| 3 | | 0.2700 | 18.17 | 9.69 | 27.86 | 61.12 | -33.26 | QP |
| 4 | | 0.2700 | 8.33 | 9.69 | 18.02 | 51.12 | -33.10 | AVG |
| 5 | | 0.5780 | 21.73 | 9.79 | 31.52 | 56.00 | -24.48 | QP |
| 6 | | 0.5780 | 15.48 | 9.79 | 25.27 | 46.00 | -20.73 | AVG |
| 7 | | 1.0180 | 15.77 | 9.62 | 25.39 | 56.00 | -30.61 | QP |
| 8 | | 1.0180 | 8.79 | 9.62 | 18.41 | 46.00 | -27.59 | AVG |
| 9 | | 21.8060 | 24.62 | 9.67 | 34.29 | 60.00 | -25.71 | QP |
| 10 | | 21.8060 | 18.94 | 9.67 | 28.61 | 50.00 | -21.39 | AVG |
| 11 | | 26.3580 | 24.87 | 9.72 | 34.59 | 60.00 | -25.41 | QP |
| 12 | * | 26.3580 | 19.83 | 9.72 | 29.55 | 50.00 | -20.45 | AVG |

Emission Level= Read Level+ Correct Factor

Attachment B-- Radiated Emission Test Data

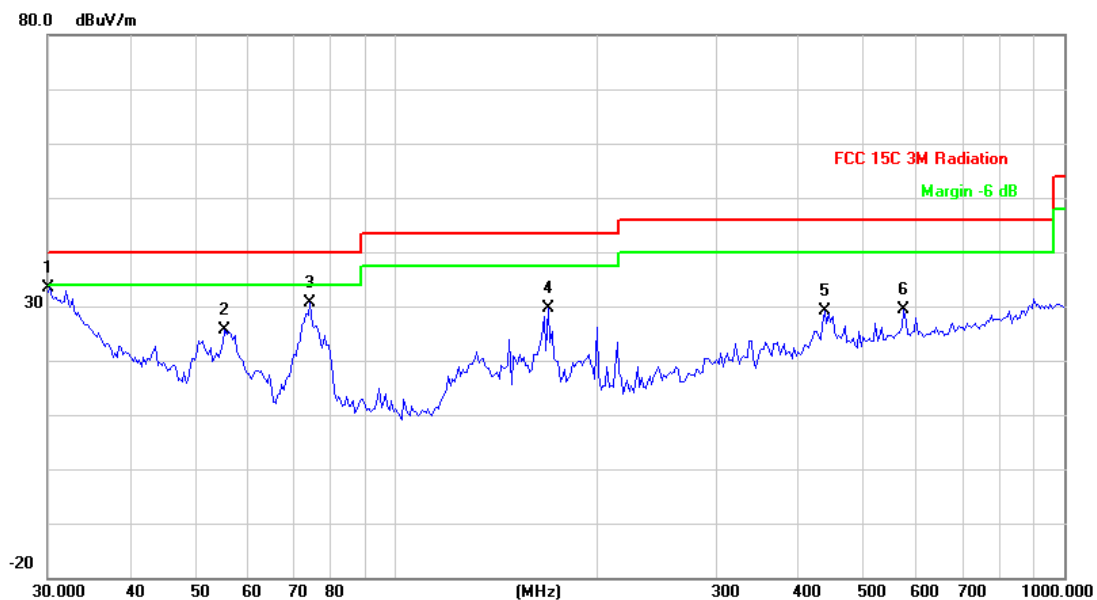
9KHz~30MHz

From 9KHz to 30MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

30MHz~1GHz

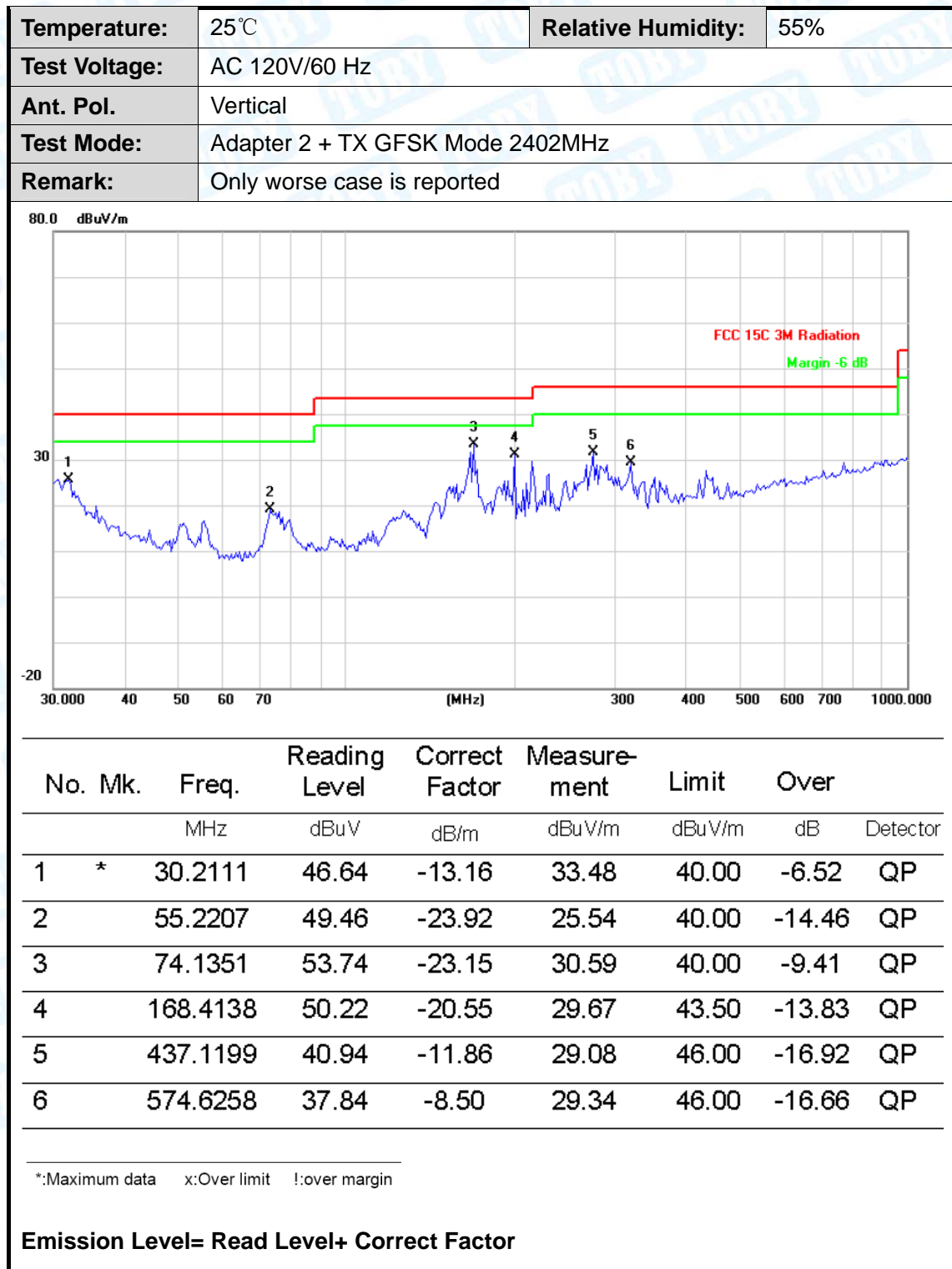
| | | | |
|---------------|----------------------------------|--------------------|-----|
| Temperature: | 25℃ | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60 Hz | | |
| Ant. Pol. | Horizontal | | |
| Test Mode: | Adapter 2 + TX GFSK Mode 2402MHz | | |
| Remark: | Only worse case is reported | | |



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB/m | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------|------------|----------|
| 1 | | 31.9546 | 40.19 | -14.48 | 25.71 | 40.00 | -14.29 | QP |
| 2 | | 73.1025 | 42.41 | -23.25 | 19.16 | 40.00 | -20.84 | QP |
| 3 | * | 168.4138 | 53.88 | -20.55 | 33.33 | 43.50 | -10.17 | QP |
| 4 | | 199.2855 | 50.95 | -19.89 | 31.06 | 43.50 | -12.44 | QP |
| 5 | | 275.1570 | 48.03 | -16.52 | 31.51 | 46.00 | -14.49 | QP |
| 6 | | 321.0608 | 44.62 | -15.32 | 29.30 | 46.00 | -16.70 | QP |

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

Emission Level= Read Level+ Correct Factor



Above 1GHz(Only worse case is reported)

| | | | |
|---------------|--|--------------------|-----|
| Temperature: | 25℃ | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60 Hz | | |
| Ant. Pol. | Horizontal | | |
| Test Mode: | TX GFSK Mode 2402MHz | | |
| Remark: | No report for the emission which more than 10 dB below the prescribed limit. | | |
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| Temperature: | 25℃ | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60 Hz | | |
| Ant. Pol. | Vertical | | |
| Test Mode: | TX GFSK Mode 2402MHz | | |
| Remark: | No report for the emission which more than 10 dB below the prescribed limit. | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | Detector |
| 1 | * | 4804.152 | 33.38 | 14.56 | 47.94 | 54.00 | -6.06 | AVG |
| 2 | | 4804.366 | 47.02 | 14.56 | 61.58 | 74.00 | -12.42 | peak |

Emission Level= Read Level+ Correct Factor

| | | | |
|---------------|--|--------------------|-----|
| Temperature: | 25℃ | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60 Hz | | |
| Ant. Pol. | Horizontal | | |
| Test Mode: | TX GFSK Mode 2441MHz | | |
| Remark: | No report for the emission which more than 10 dB below the prescribed limit. | | |
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|---------------|--|--------------------|-----|
| Temperature: | 25℃ | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60 Hz | | |
| Ant. Pol. | Vertical | | |
| Test Mode: | TX GFSK Mode 2441MHz | | |
| Remark: | No report for the emission which more than 10 dB below the prescribed limit. | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over |
|-----|-----|----------|---------------|----------------|--------------|--------|-------------|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB Detector |
| 1 | | 4882.036 | 47.99 | 15.16 | 63.15 | 74.00 | -10.85 peak |
| 2 | * | 4882.596 | 33.86 | 15.16 | 49.02 | 54.00 | -4.98 AVG |

Emission Level= Read Level+ Correct Factor

| | | | |
|---------------|--|--------------------|-----|
| Temperature: | 25℃ | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60 Hz | | |
| Ant. Pol. | Horizontal | | |
| Test Mode: | TX GFSK Mode 2480MHz | | |
| Remark: | No report for the emission which more than 10 dB below the prescribed limit. | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | |
|-----|-----|----------|---------------|----------------|--------------|--------|--------|----------|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | Detector |
| 1 | | 4960.660 | 47.93 | 15.76 | 63.69 | 74.00 | -10.31 | peak |
| 2 | * | 4961.000 | 33.94 | 15.76 | 49.70 | 54.00 | -4.30 | AVG |

Emission Level= Read Level+ Correct Factor

| | | | |
|---------------|--|--------------------|-----|
| Temperature: | 25℃ | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60 Hz | | |
| Ant. Pol. | Vertical | | |
| Test Mode: | TX GFSK Mode 2480MHz | | |
| Remark: | No report for the emission which more than 10 dB below the prescribed limit. | | |

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over |
|-----|-----|----------|---------------|----------------|--------------|--------|-------------|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB Detector |
| 1 | | 4959.550 | 48.12 | 15.76 | 63.88 | 74.00 | -10.12 peak |
| 2 | * | 4960.252 | 33.92 | 15.76 | 49.68 | 54.00 | -4.32 AVG |

Emission Level= Read Level+ Correct Factor

| | | | |
|---------------|--|--------------------|-----|
| Temperature: | 25℃ | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60 Hz | | |
| Ant. Pol. | Horizontal | | |
| Test Mode: | TXPi/4-DQPSK Mode 2402MHz | | |
| Remark: | No report for the emission which more than 10 dB below the prescribed limit. | | |
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|---------------|--|--------------------|-----|
| Temperature: | 25℃ | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60 Hz | | |
| Ant. Pol. | Vertical | | |
| Test Mode: | TXPi/4-DQPSK Mode 2402MHz | | |
| Remark: | No report for the emission which more than 10 dB below the prescribed limit. | | |
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|---------------|--|--------------------|-----|
| Temperature: | 25℃ | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60 Hz | | |
| Ant. Pol. | Horizontal | | |
| Test Mode: | TXPi/4-DQPSK Mode 2441MHz | | |
| Remark: | No report for the emission which more than 10 dB below the prescribed limit. | | |
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|---------------|--|--------------------|-----|
| Temperature: | 25℃ | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60 Hz | | |
| Ant. Pol. | Vertical | | |
| Test Mode: | TXPi/4-DQPSK Mode 2441MHz | | |
| Remark: | No report for the emission which more than 10 dB below the prescribed limit. | | |
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|---------------|--|--------------------|-----|
| Temperature: | 25℃ | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60 Hz | | |
| Ant. Pol. | Horizontal | | |
| Test Mode: | TXPi/4-DQPSK Mode 2480MHz | | |
| Remark: | No report for the emission which more than 10 dB below the prescribed limit. | | |
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|---------------|--|--------------------|-----|
| Temperature: | 25℃ | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60 Hz | | |
| Ant. Pol. | Vertical | | |
| Test Mode: | TXPi/4-DQPSK Mode 2480MHz | | |
| Remark: | No report for the emission which more than 10 dB below the prescribed limit. | | |
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|---------------|--|--------------------|-----|
| Temperature: | 25℃ | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60 Hz | | |
| Ant. Pol. | Horizontal | | |
| Test Mode: | TX 8-DPSK Mode 2402MHz | | |
| Remark: | No report for the emission which more than 10 dB below the prescribed limit. | | |
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|---------------|--|--------------------|-----|
| Temperature: | 25℃ | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60 Hz | | |
| Ant. Pol. | Vertical | | |
| Test Mode: | TX 8-DPSK Mode 2402MHz | | |
| Remark: | No report for the emission which more than 10 dB below the prescribed limit. | | |
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|---------------|--|--------------------|-----|
| Temperature: | 25℃ | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60 Hz | | |
| Ant. Pol. | Horizontal | | |
| Test Mode: | TX 8-DPSK Mode 2441MHz | | |
| Remark: | No report for the emission which more than 10 dB below the prescribed limit. | | |
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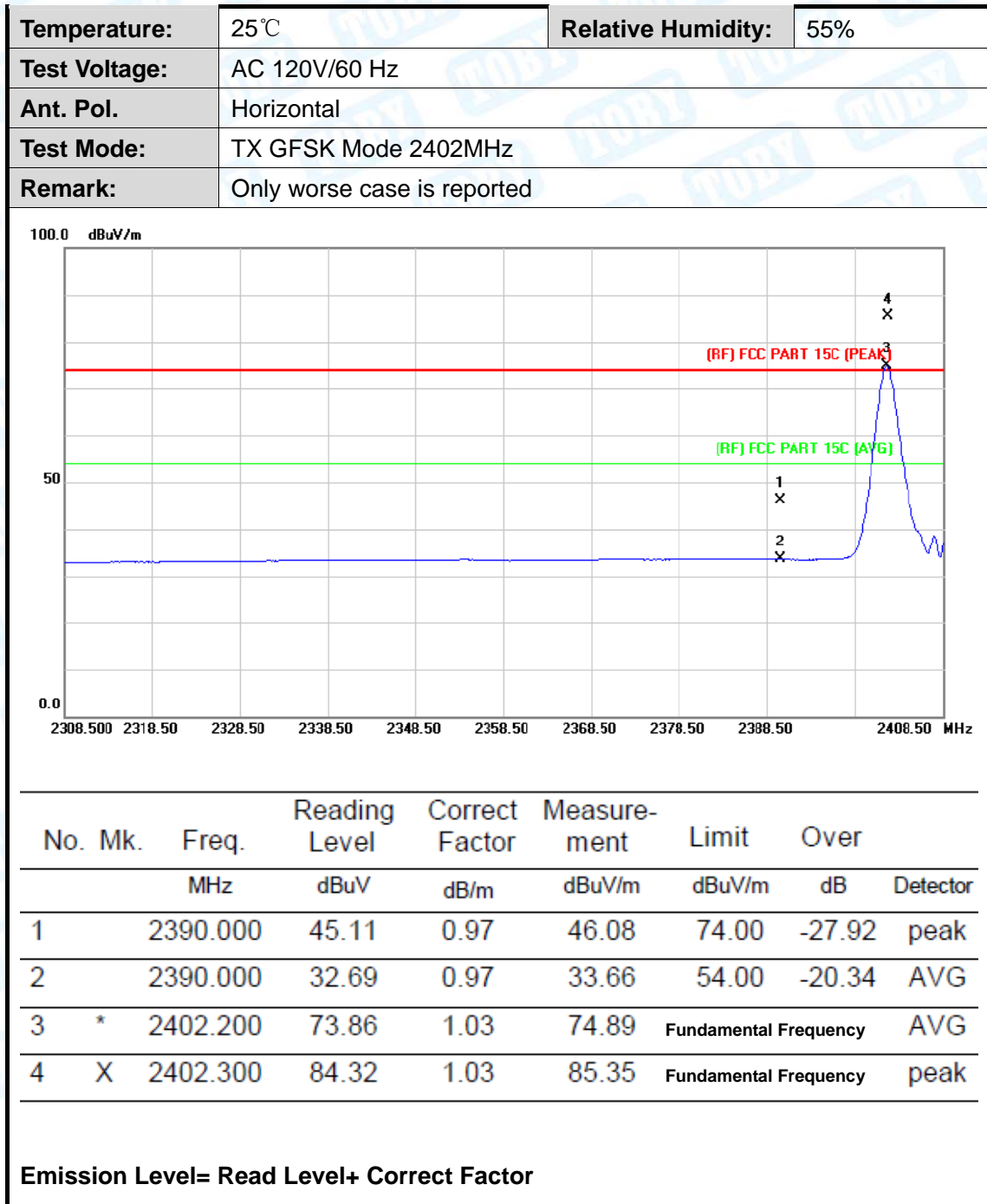
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|---------------|--|--------------------|-----|
| Temperature: | 25℃ | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60 Hz | | |
| Ant. Pol. | Vertical | | |
| Test Mode: | TX 8-DPSK Mode 2441MHz | | |
| Remark: | No report for the emission which more than 10 dB below the prescribed limit. | | |
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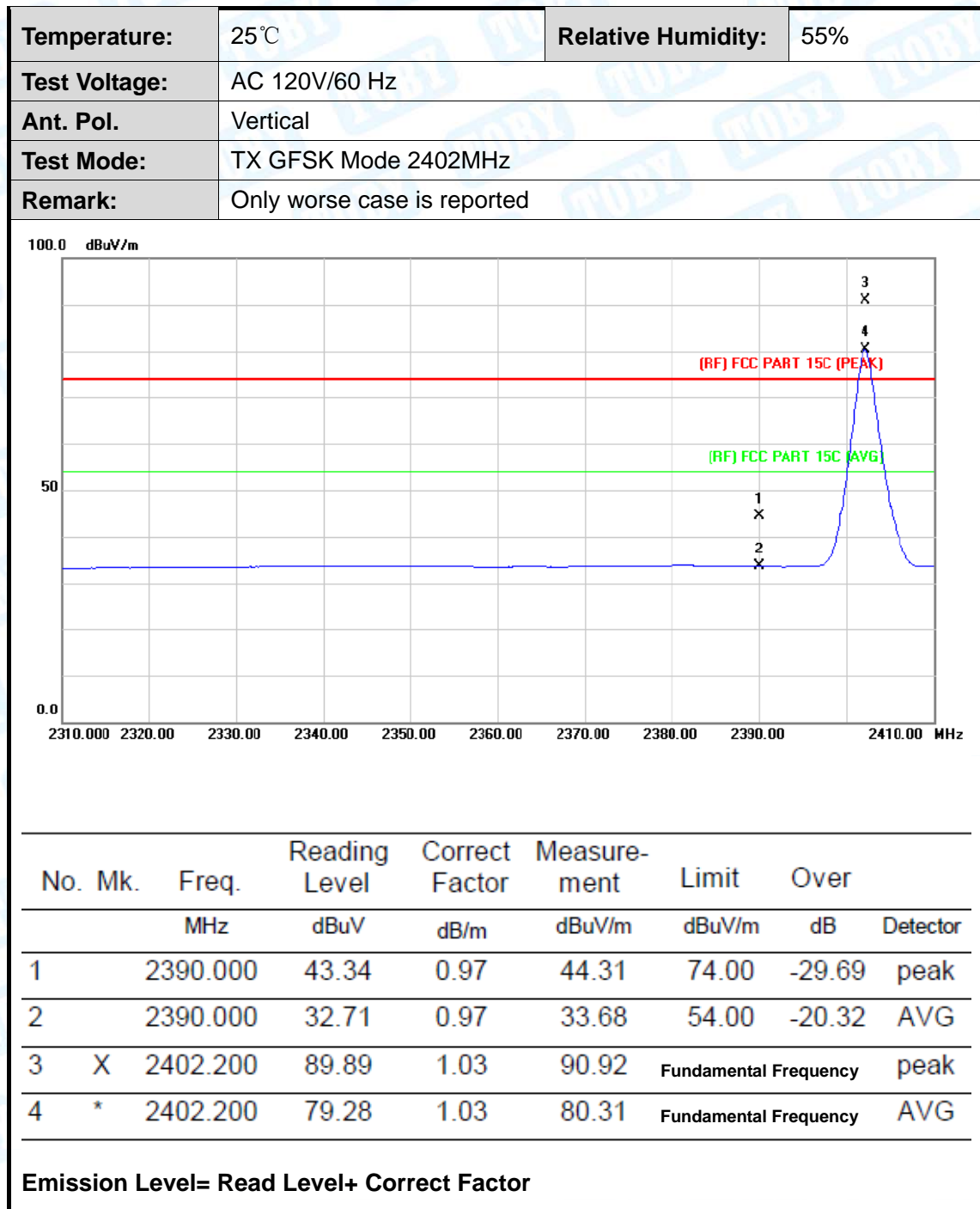
| | | | |
|---------------|--|--------------------|-----|
| Temperature: | 25℃ | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60 Hz | | |
| Ant. Pol. | Horizontal | | |
| Test Mode: | TX 8-DPSK Mode 2480MHz | | |
| Remark: | No report for the emission which more than 10 dB below the prescribed limit. | | |
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|---------------|--|--------------------|-----|
| Temperature: | 25℃ | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60 Hz | | |
| Ant. Pol. | Vertical | | |
| Test Mode: | TX 8-DPSK Mode 2480MHz | | |
| Remark: | No report for the emission which more than 10 dB below the prescribed limit. | | |
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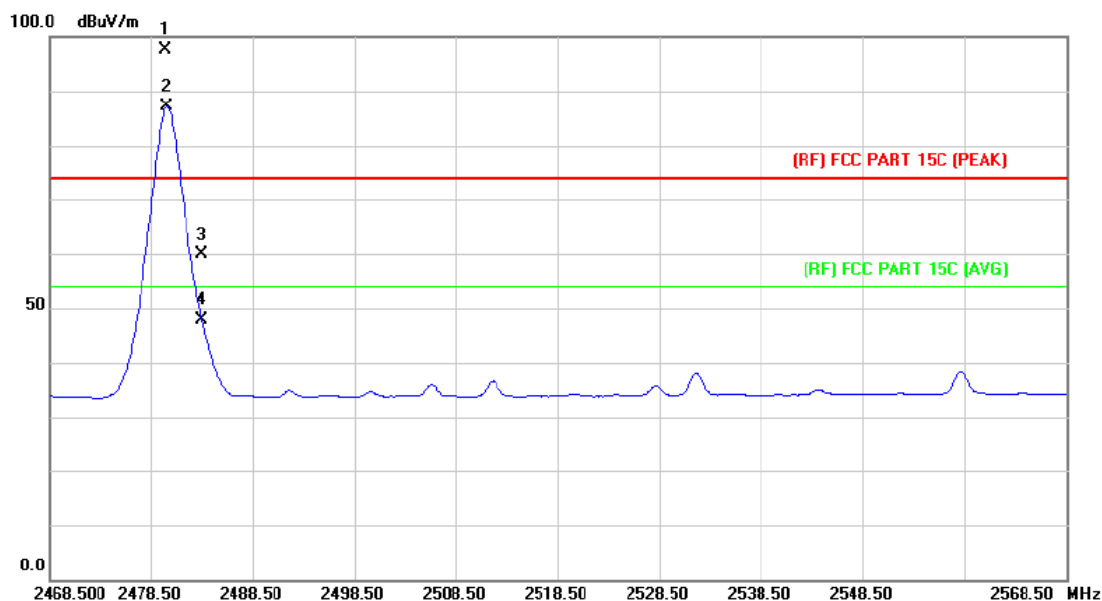
Attachment C-- Restricted Bands Requirement Test Data

(1) Radiation Test





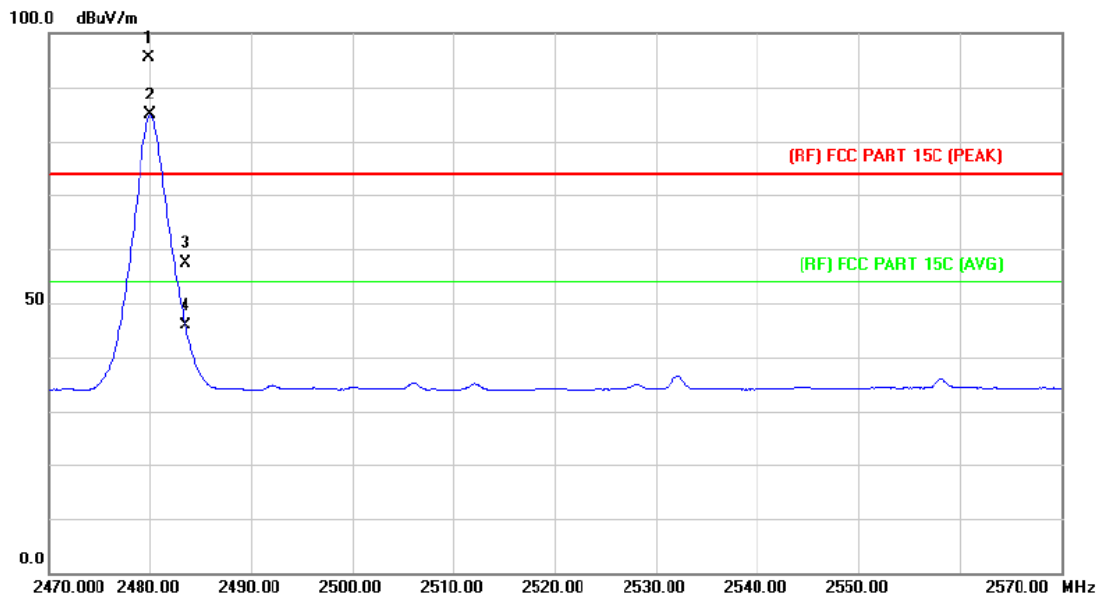
| | | | |
|---------------|-----------------------------|--------------------|-----|
| Temperature: | 25°C | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60 Hz | | |
| Ant. Pol. | Horizontal | | |
| Test Mode: | TX GFSK Mode 2480 MHz | | |
| Remark: | Only worse case is reported | | |



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB/m | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------------|------------|----------|
| 1 | X | 2479.900 | 96.30 | 1.38 | 97.68 | Fundamental Frequency | | peak |
| 2 | * | 2480.100 | 85.84 | 1.38 | 87.22 | Fundamental Frequency | | AVG |
| 3 | | 2483.500 | 58.51 | 1.40 | 59.91 | 74.00 | -14.09 | peak |
| 4 | | 2483.500 | 46.51 | 1.40 | 47.91 | 54.00 | -6.09 | AVG |

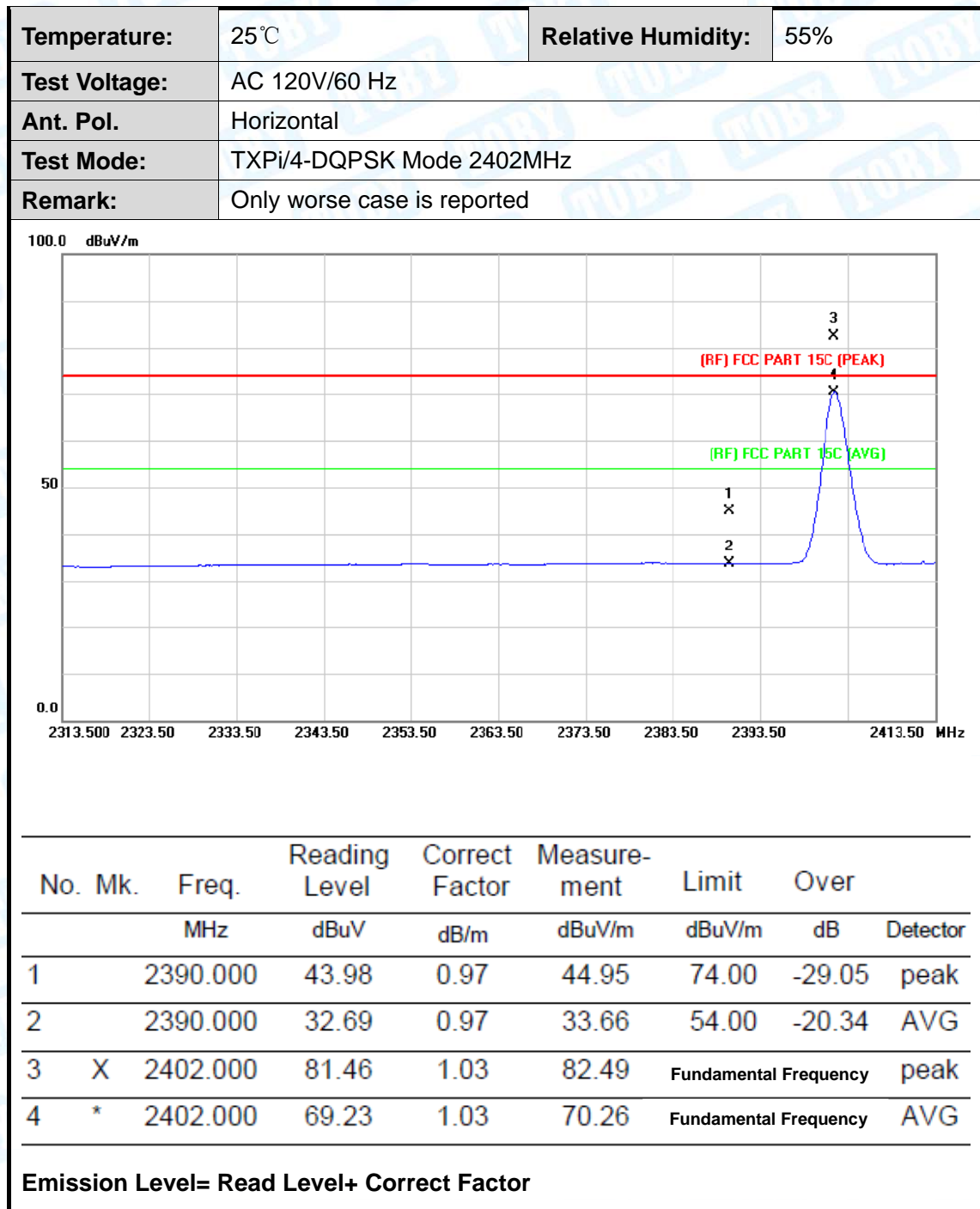
Emission Level= Read Level+ Correct Factor

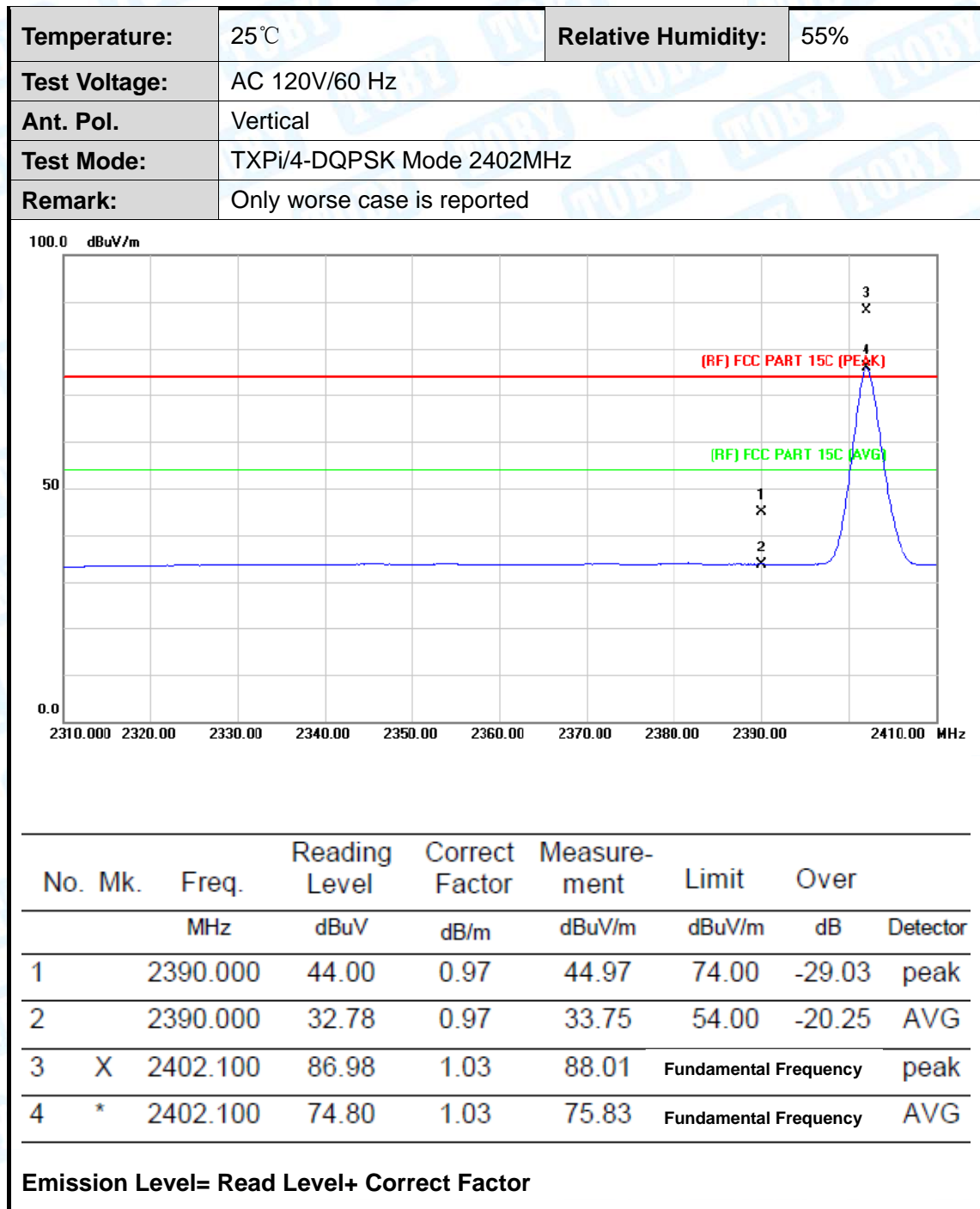
| | | | |
|---------------|-----------------------------|--------------------|-----|
| Temperature: | 25℃ | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60 Hz | | |
| Ant. Pol. | Vertical | | |
| Test Mode: | TX GFSK Mode 2480 MHz | | |
| Remark: | Only worse case is reported | | |

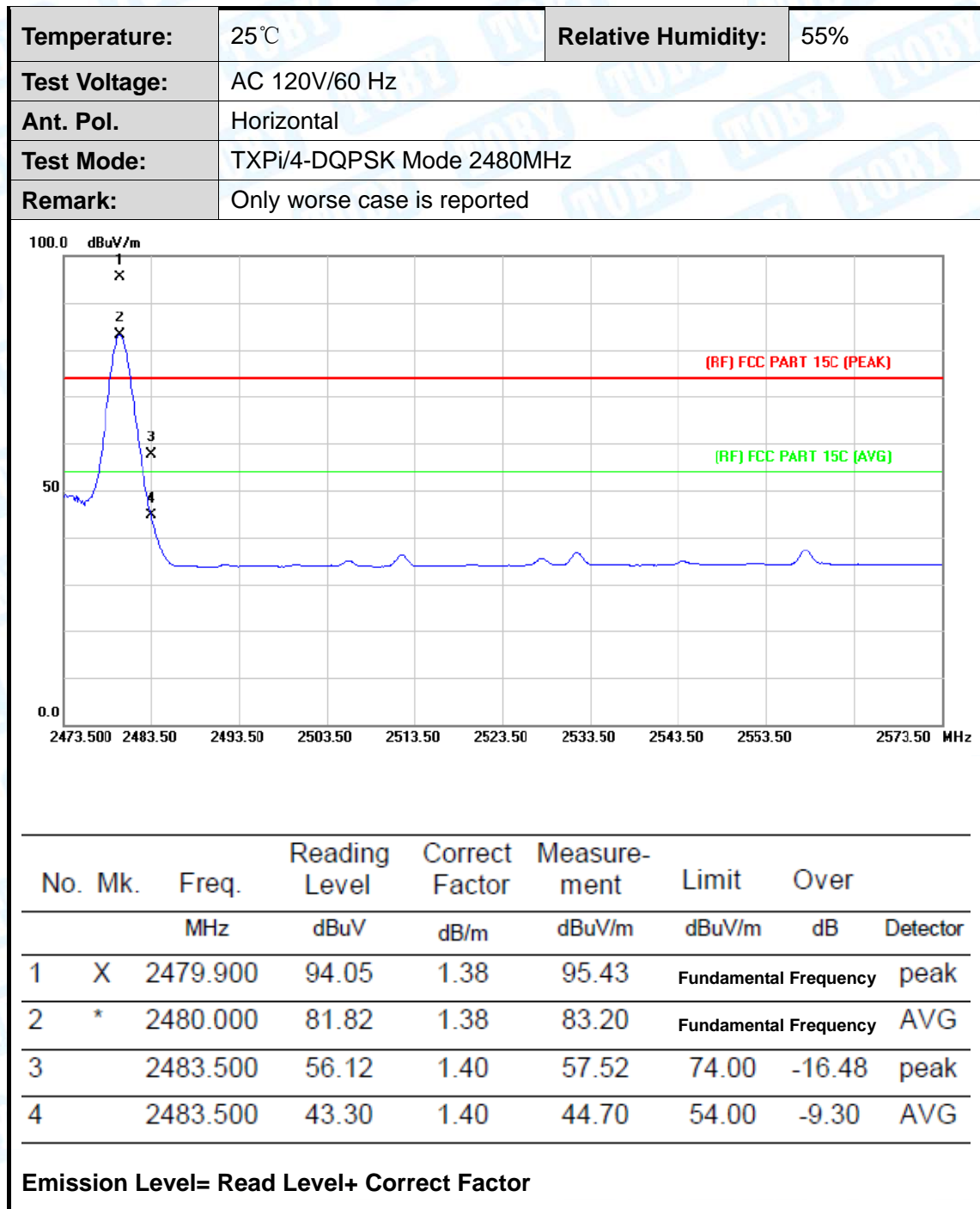


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB/m | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------------|------------|----------|
| 1 | X | 2479.900 | 93.92 | 1.38 | 95.30 | Fundamental Frequency | | peak |
| 2 | * | 2480.100 | 83.44 | 1.38 | 84.82 | Fundamental Frequency | | AVG |
| 3 | | 2483.500 | 55.97 | 1.40 | 57.37 | 74.00 | -16.63 | peak |
| 4 | | 2483.500 | 44.47 | 1.40 | 45.87 | 54.00 | -8.13 | AVG |

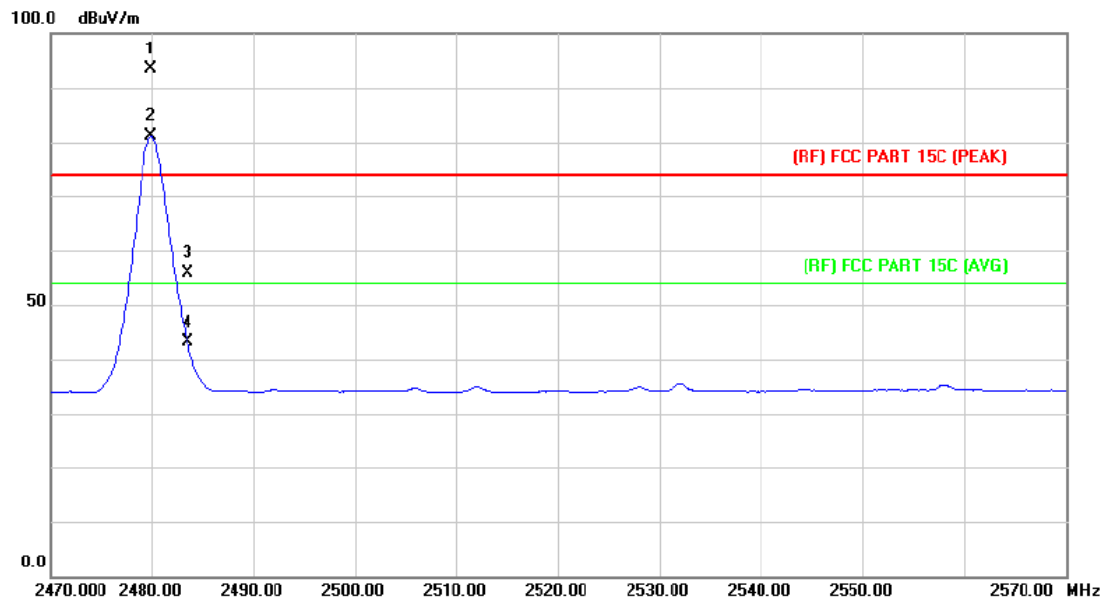
Emission Level= Read Level+ Correct Factor







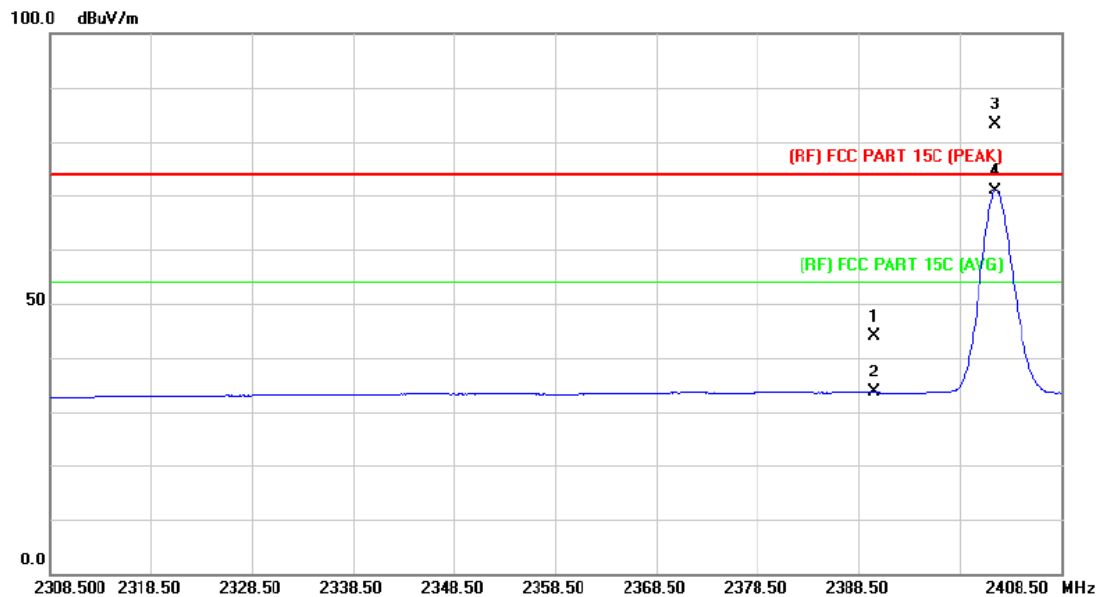
| | | | |
|---------------|-----------------------------|--------------------|-----|
| Temperature: | 25°C | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60 Hz | | |
| Ant. Pol. | Vertical | | |
| Test Mode: | TXPi/4-DQPSK Mode 2480MHz | | |
| Remark: | Only worse case is reported | | |



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB/m | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------------|------------|----------|
| 1 | X | 2479.900 | 91.97 | 1.38 | 93.35 | Fundamental Frequency | | peak |
| 2 | * | 2479.900 | 79.70 | 1.38 | 81.08 | Fundamental Frequency | | AVG |
| 3 | | 2483.500 | 54.39 | 1.40 | 55.79 | 74.00 | -18.21 | peak |
| 4 | | 2483.500 | 41.65 | 1.40 | 43.05 | 54.00 | -10.95 | AVG |

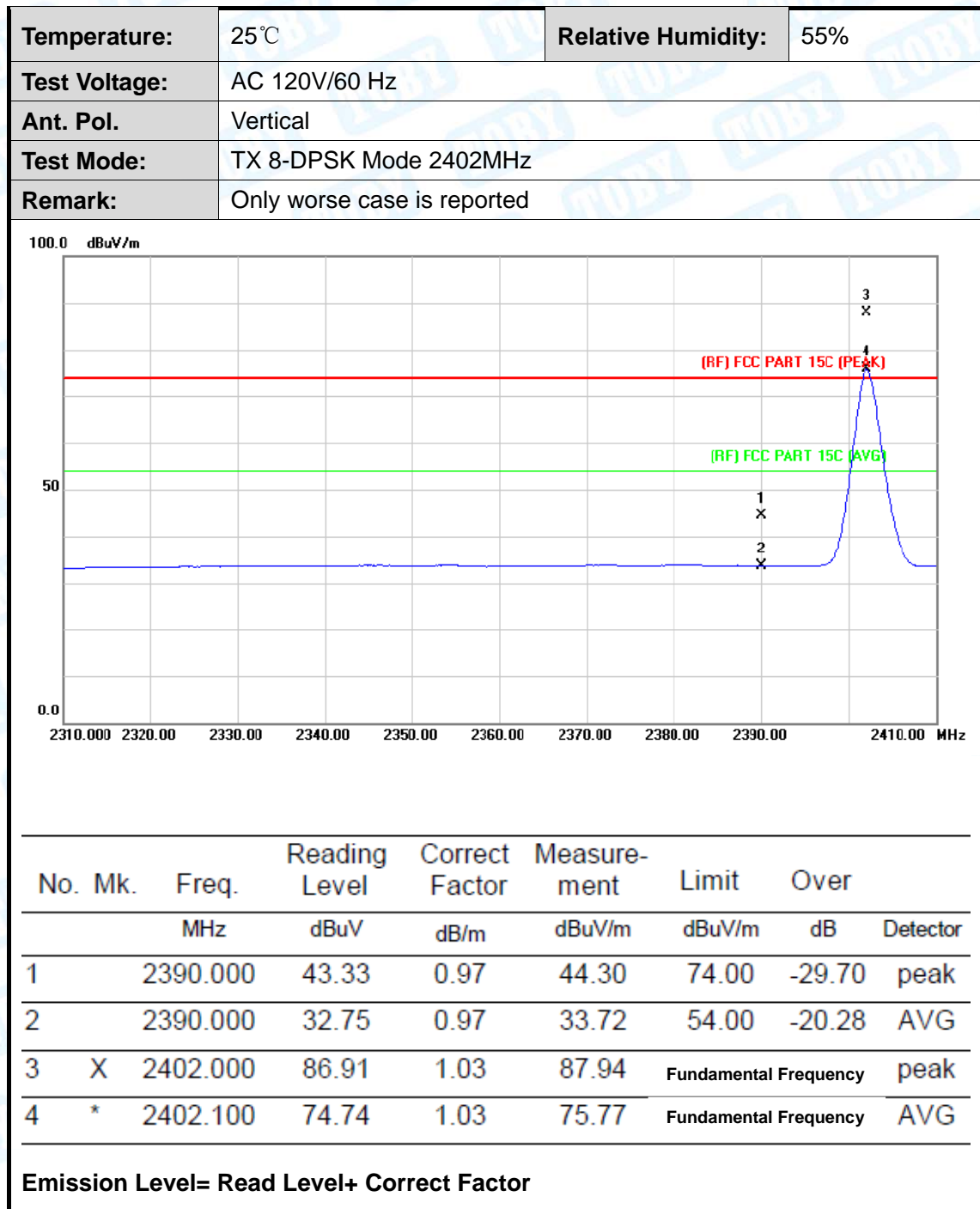
Emission Level= Read Level+ Correct Factor

| | | | |
|---------------|-----------------------------|--------------------|-----|
| Temperature: | 25°C | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60 Hz | | |
| Ant. Pol. | Horizontal | | |
| Test Mode: | TX 8-DPSK Mode 2402MHz | | |
| Remark: | Only worse case is reported | | |

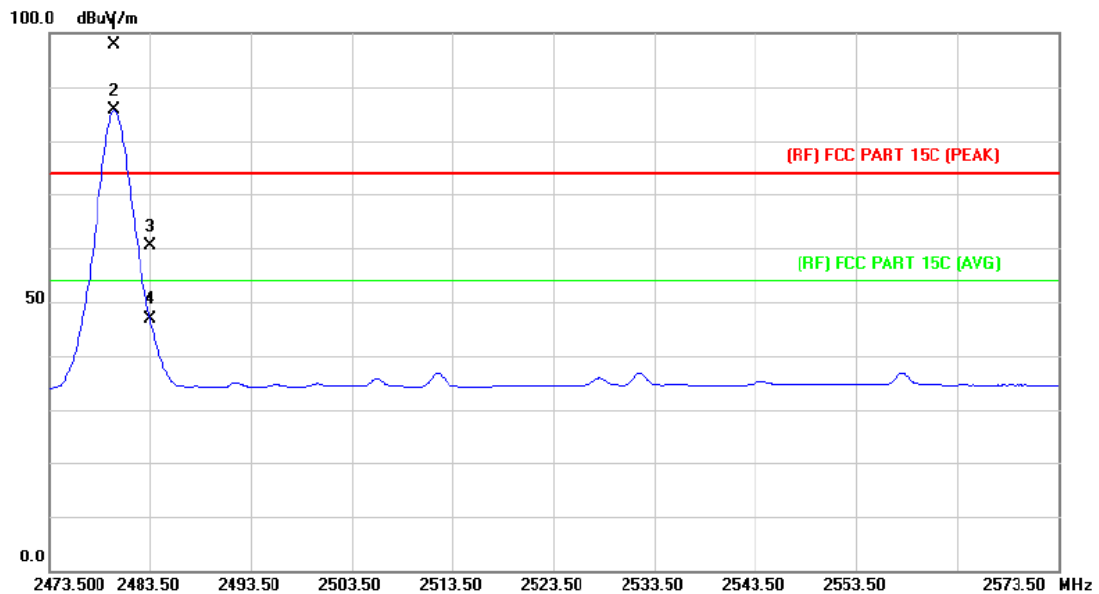


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB/m | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------------|------------|----------|
| 1 | | 2390.000 | 42.98 | 0.97 | 43.95 | 74.00 | -30.05 | peak |
| 2 | | 2390.000 | 32.59 | 0.97 | 33.56 | 54.00 | -20.44 | AVG |
| 3 | X | 2402.000 | 82.14 | 1.03 | 83.17 | Fundamental Frequency | | peak |
| 4 | * | 2402.100 | 69.89 | 1.03 | 70.92 | Fundamental Frequency | | AVG |

Emission Level= Read Level+ Correct Factor

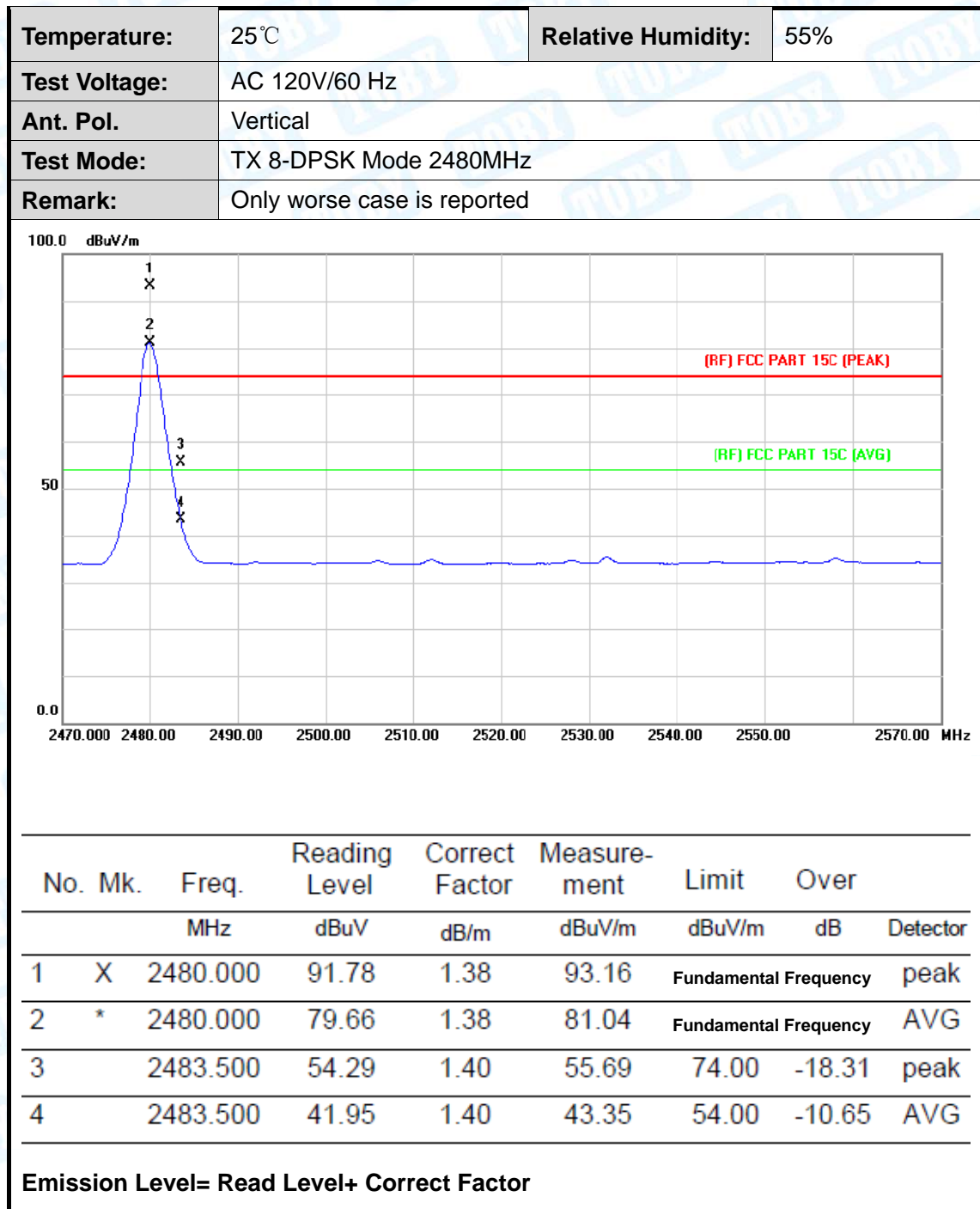


| | | | |
|----------------------|-----------------------------|---------------------------|-----|
| Temperature: | 25°C | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60 Hz | | |
| Ant. Pol. | Horizontal | | |
| Test Mode: | TX 8-DPSK Mode 2480MHz | | |
| Remark: | Only worse case is reported | | |



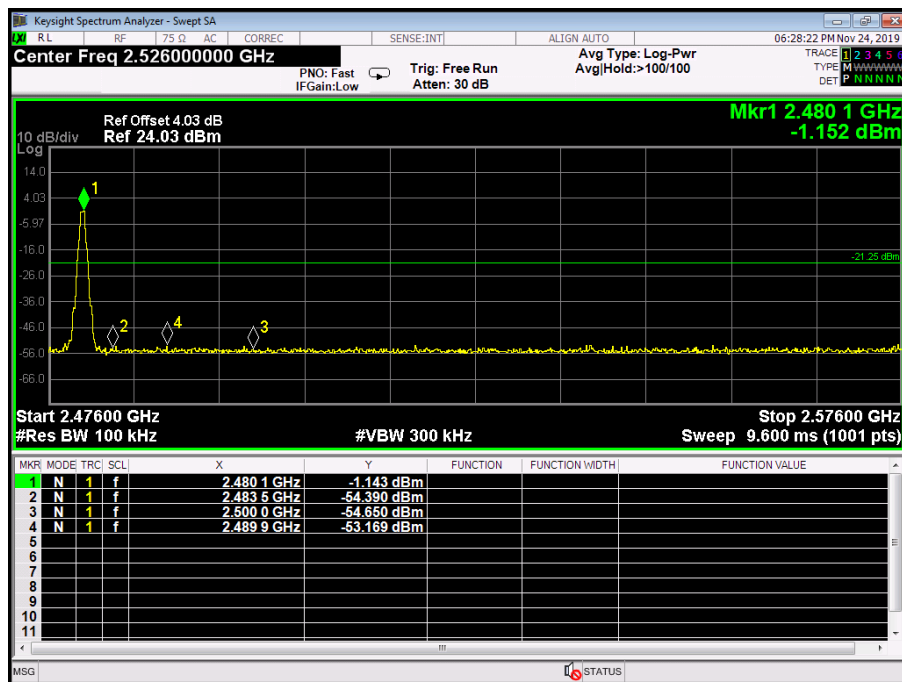
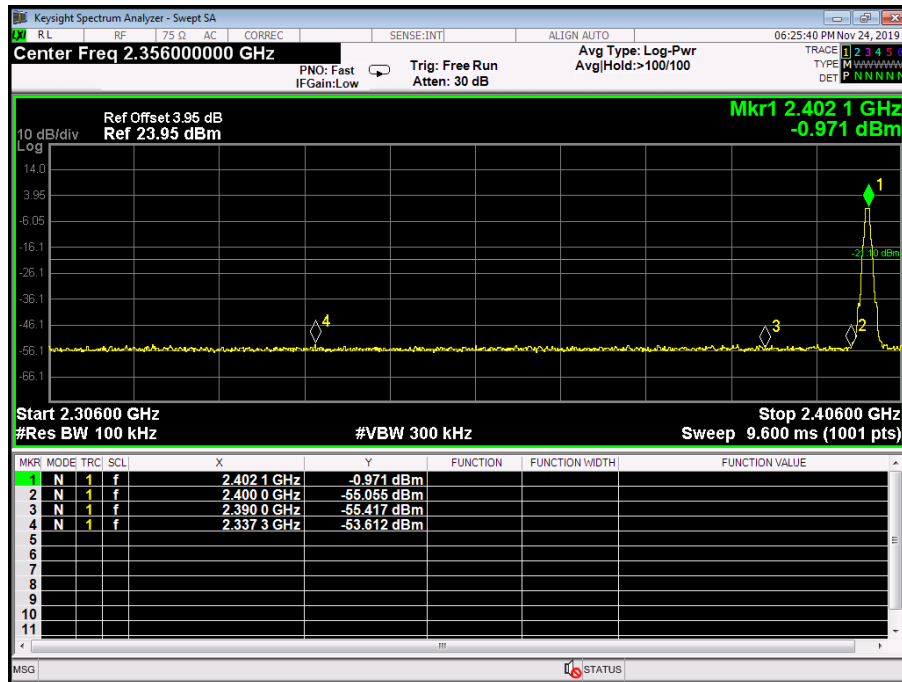
| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB/m | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector |
|-----|-----|--------------|--------------------------|---------------------------|----------------------------|-----------------------|------------|----------|
| 1 | X | 2479.900 | 96.48 | 1.38 | 97.86 | Fundamental Frequency | | peak |
| 2 | * | 2480.000 | 84.24 | 1.38 | 85.62 | Fundamental Frequency | | AVG |
| 3 | | 2483.500 | 58.96 | 1.40 | 60.36 | 74.00 | -13.64 | peak |
| 4 | | 2483.500 | 45.57 | 1.40 | 46.97 | 54.00 | -7.03 | AVG |

Emission Level= Read Level+ Correct Factor

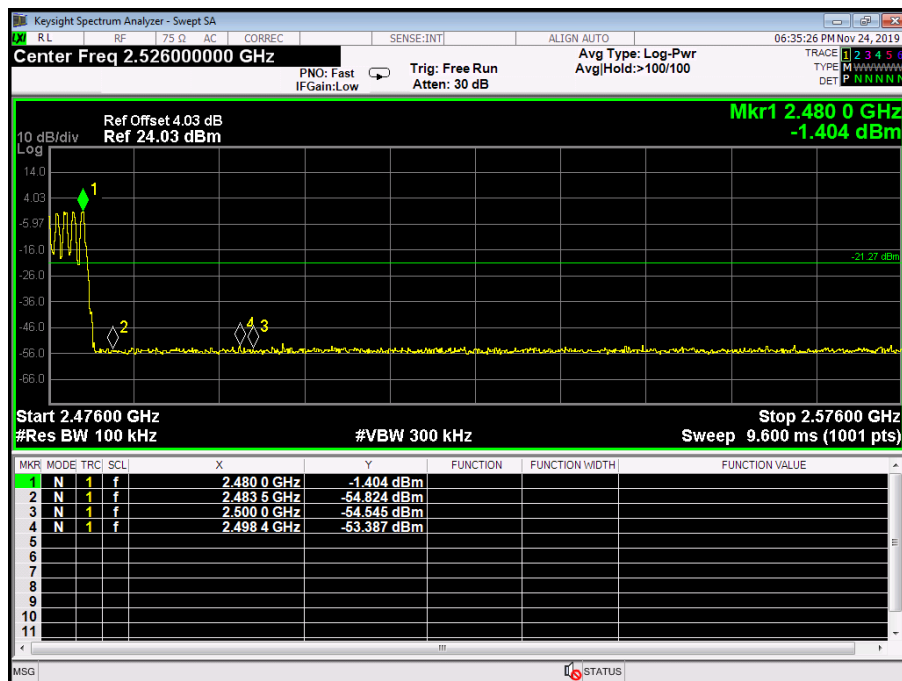
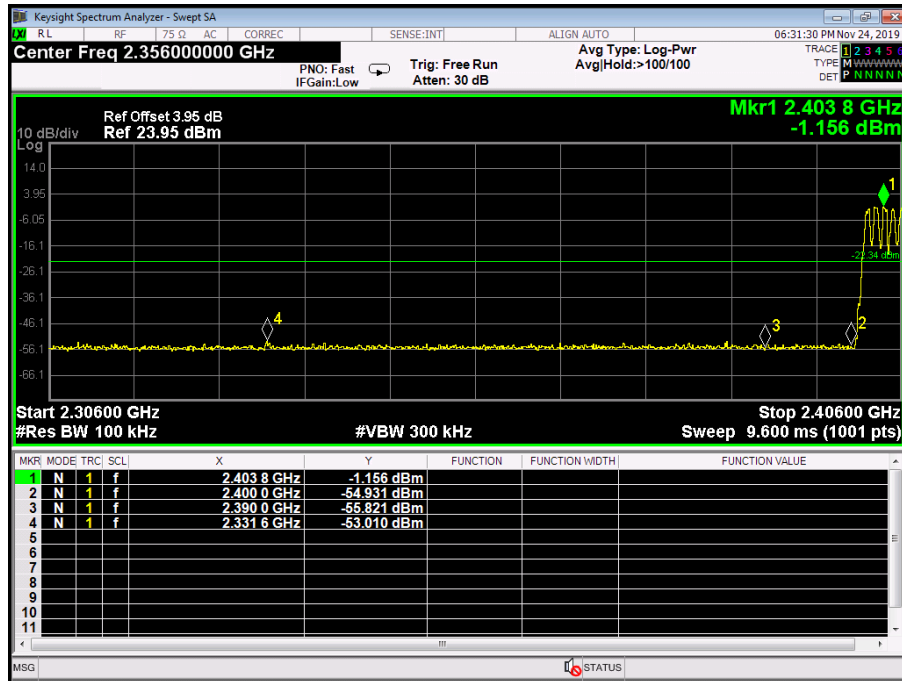


(2) Conducted Test

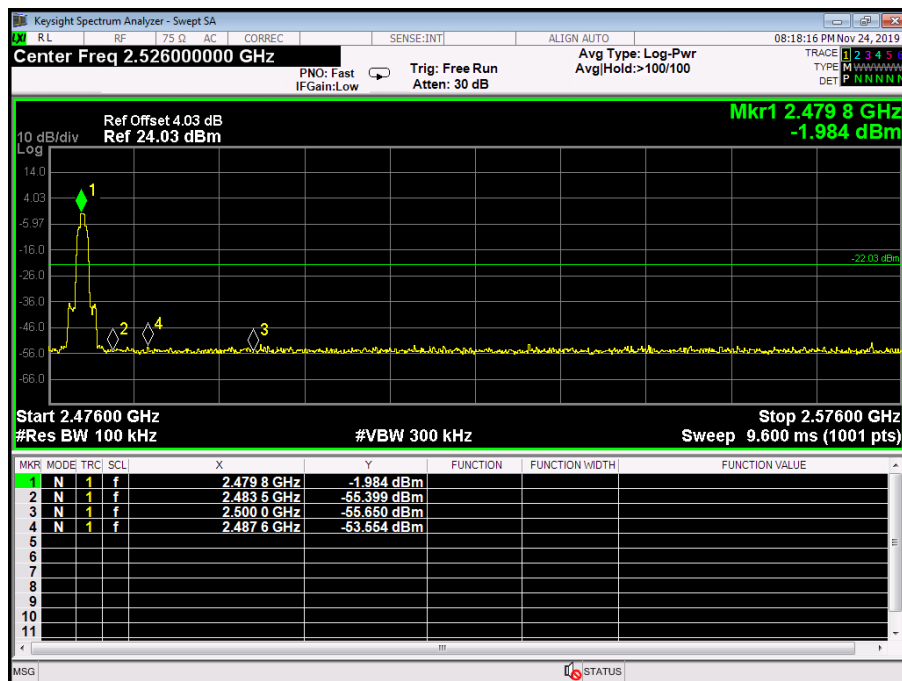
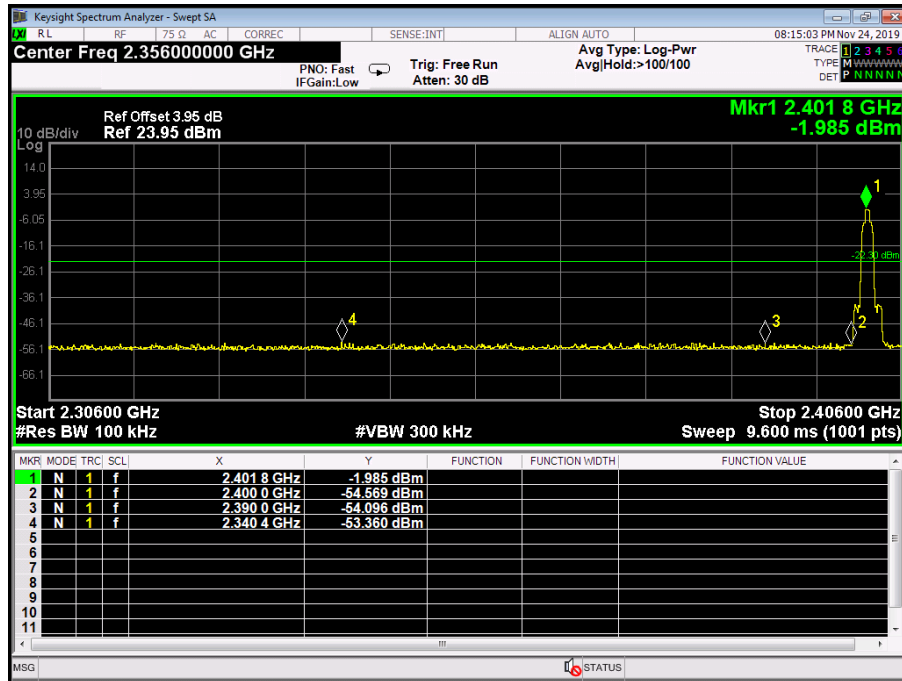
| | | | |
|---------------|-------------------------------|--------------------|-----|
| Temperature: | 25°C | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60 Hz | | |
| Test Mode: | TX GFSK Mode 2402MHz/2480 MHz | | |
| Remark: | Only worse case is reported | | |



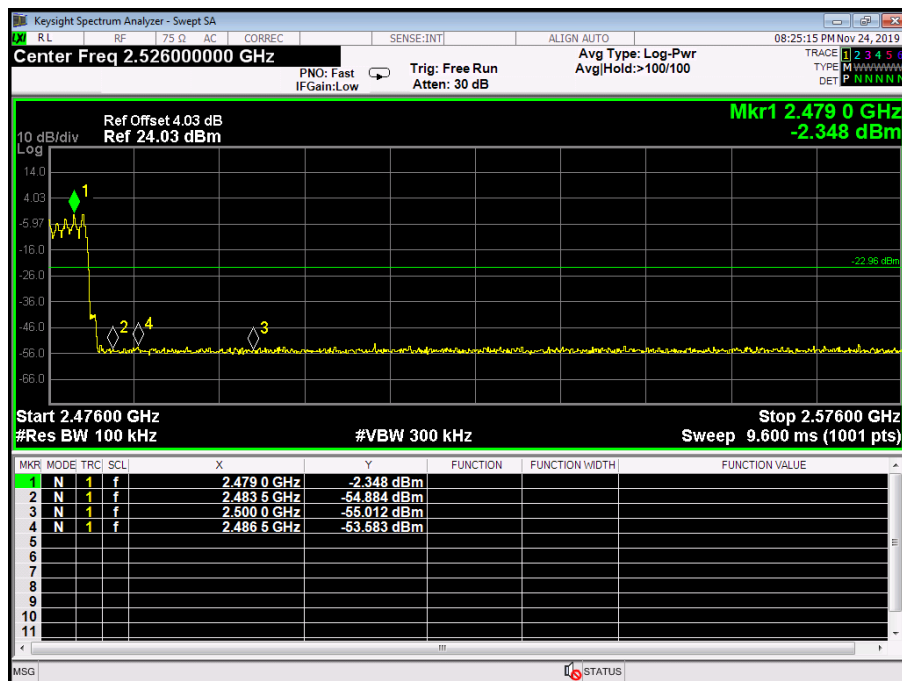
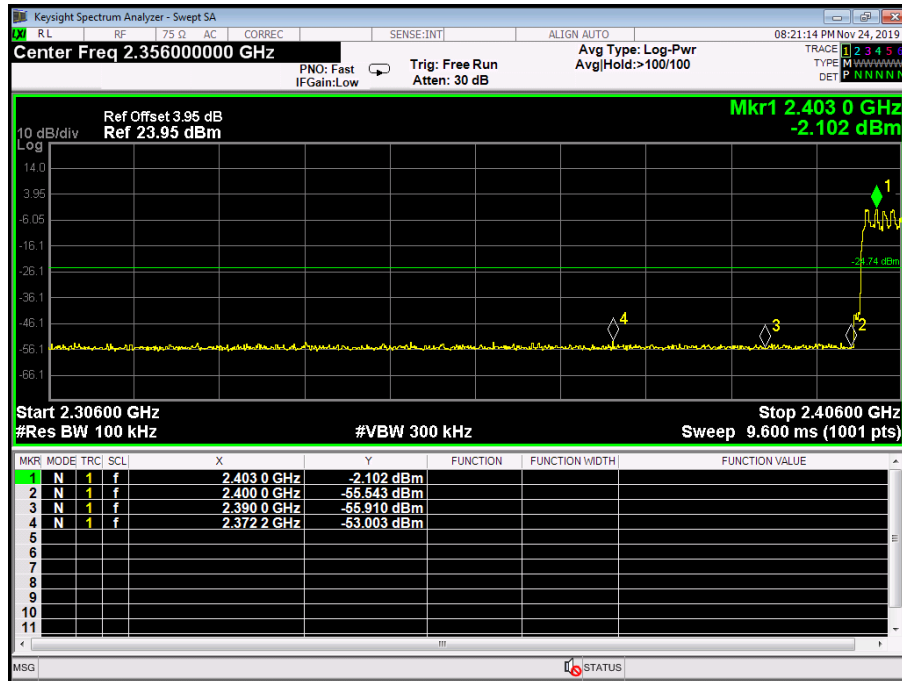
| | | | |
|---------------|-----------------------------|--------------------|-----|
| Temperature: | 25°C | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60 Hz | | |
| Test Mode: | GFSK Hopping Mode | | |
| Remark: | Only worse case is reported | | |



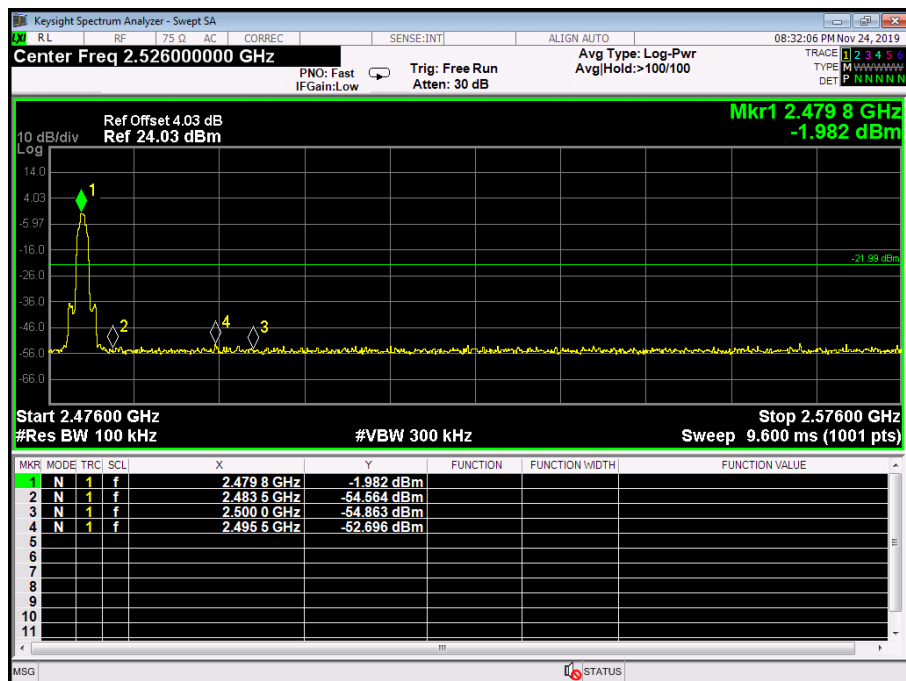
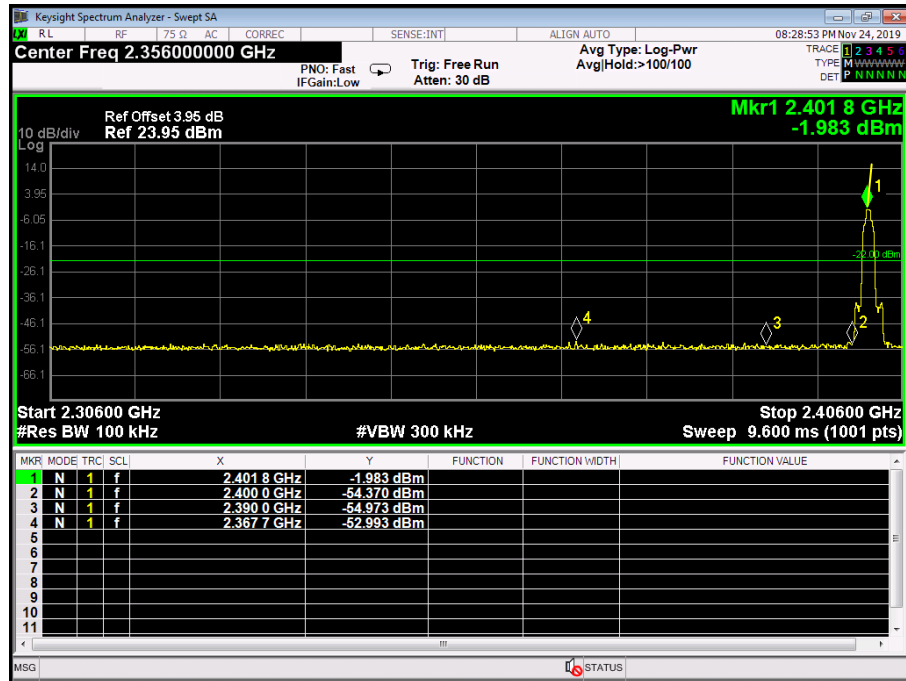
| | | | |
|---------------|------------------------------------|--------------------|-----|
| Temperature: | 25°C | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60 Hz | | |
| Test Mode: | TXPi/4-DQPSK Mode 2402MHz/2480 MHz | | |
| Remark: | Only worse case is reported | | |



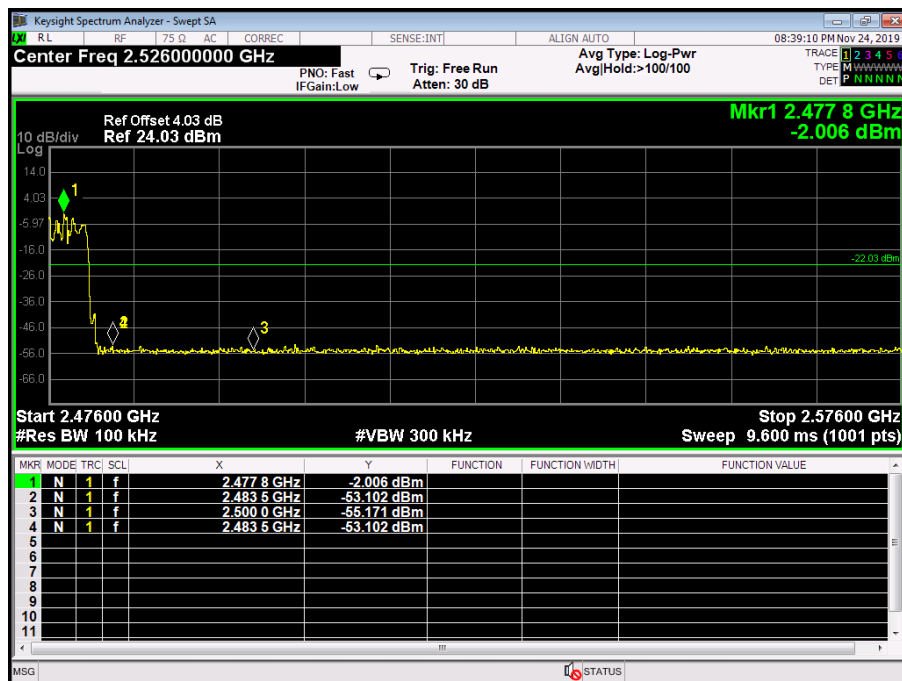
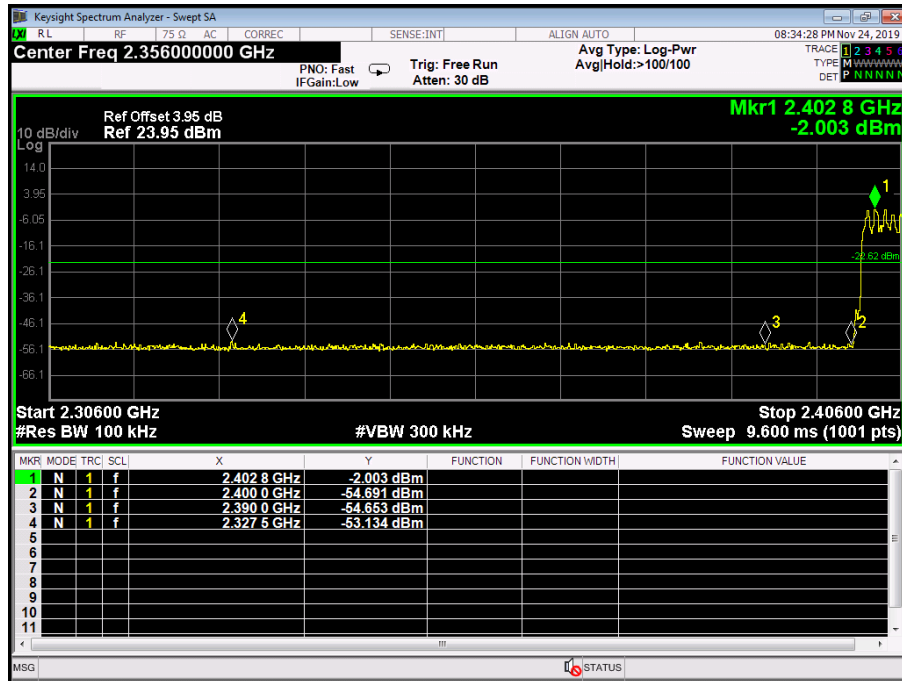
| | | | |
|---------------|-----------------------------|--------------------|-----|
| Temperature: | 25°C | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60 Hz | | |
| Test Mode: | Pi/4-DQPSK Hopping Mode | | |
| Remark: | Only worse case is reported | | |



| | | | |
|---------------|---------------------------------|--------------------|-----|
| Temperature: | 25°C | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60 Hz | | |
| Test Mode: | TX 8-DPSK Mode 2402MHz/2480 MHz | | |
| Remark: | Only worse case is reported | | |



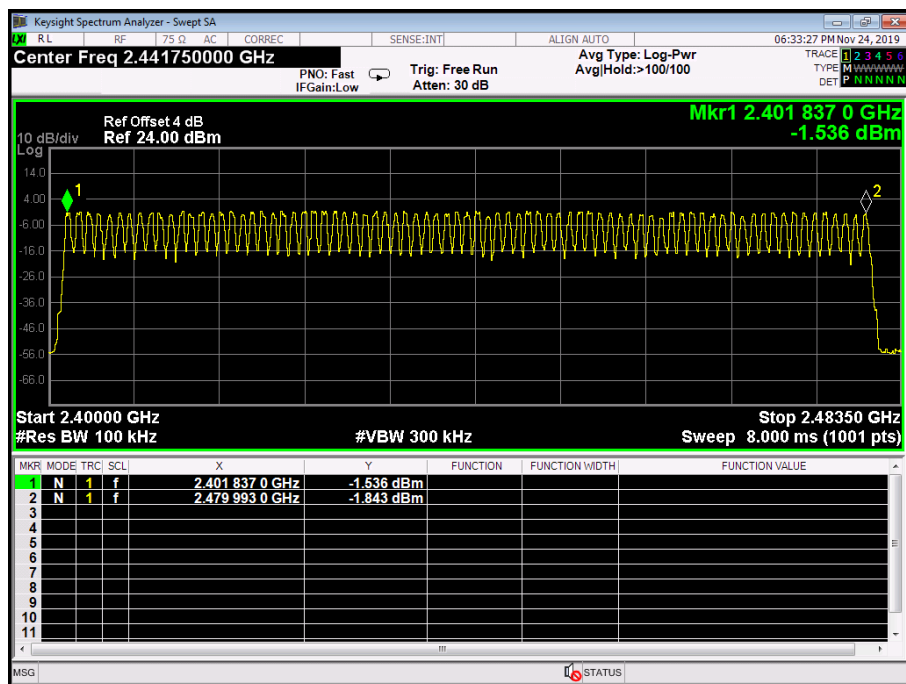
| | | | |
|---------------|-----------------------------|--------------------|-----|
| Temperature: | 25°C | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60 Hz | | |
| Test Mode: | 8-DPSK Hopping Mode | | |
| Remark: | Only worse case is reported | | |



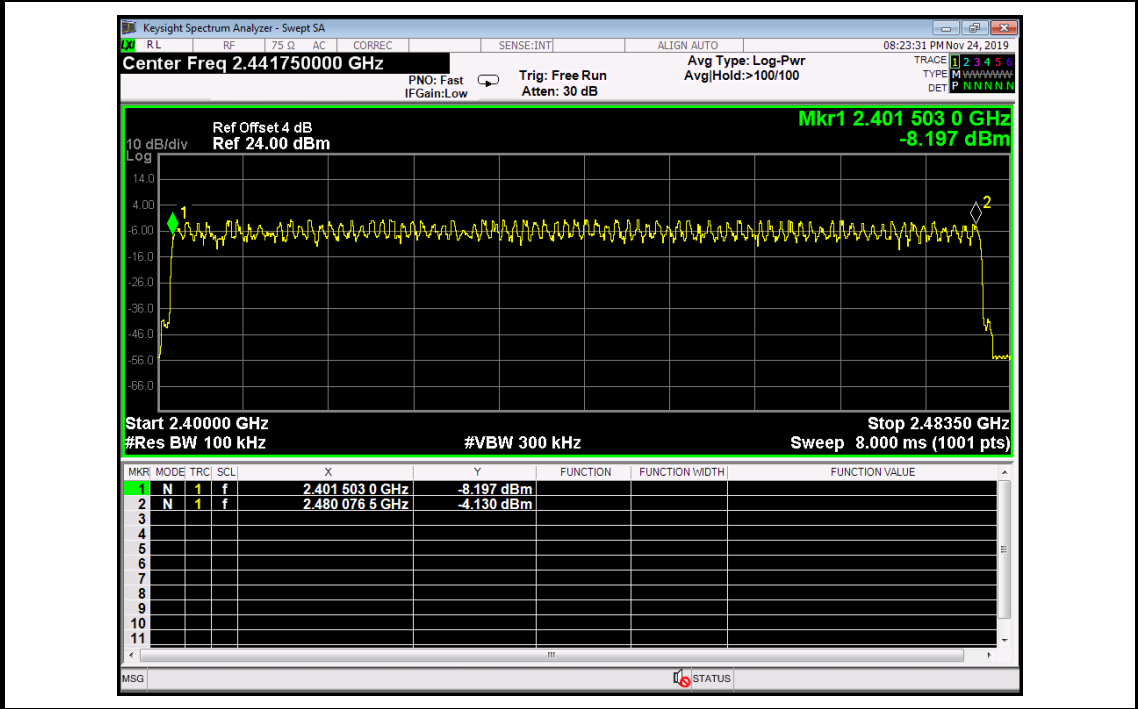
Attachment D-- Number of Hopping Channel Test Data

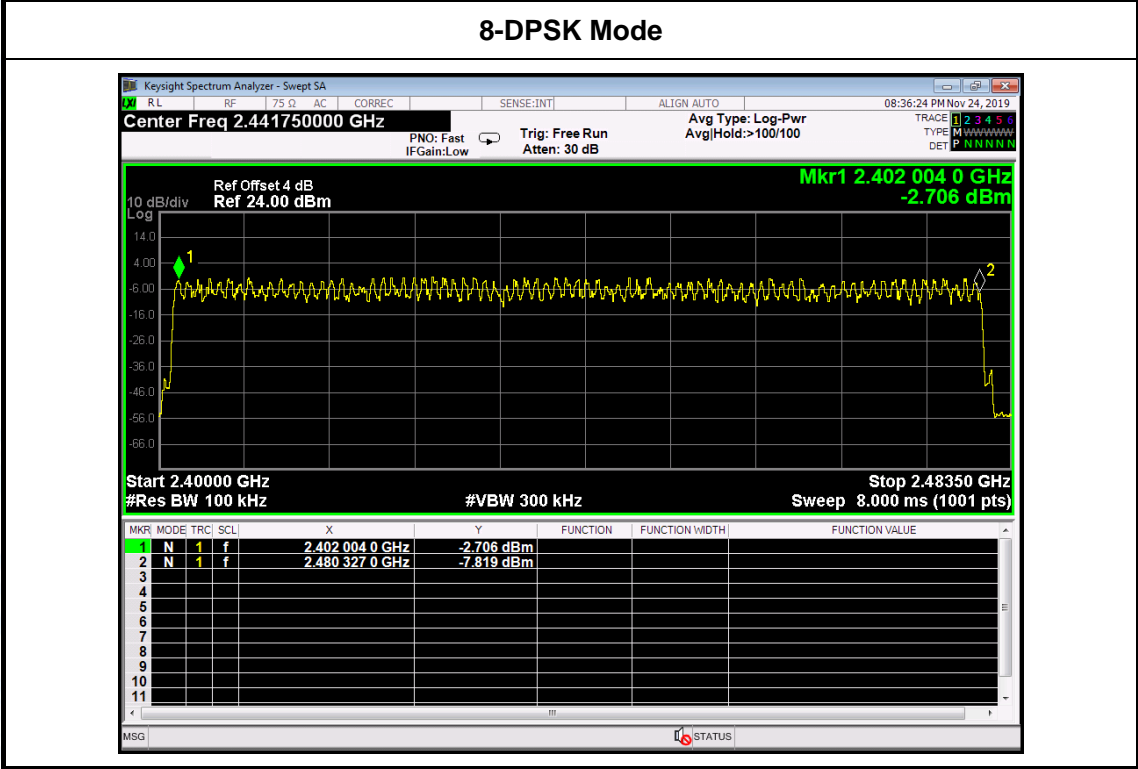
| Temperature: | 25°C | Relative Humidity: | 55% |
|-----------------|---------------|-----------------------------|-------|
| Test Voltage: | AC 120V/60 Hz | | |
| Test Mode: | Hopping Mode | | |
| Frequency Range | Test Mode | Quantity of Hopping Channel | Limit |
| 2402MHz~2480MHz | GFSK | 79 | >15 |
| | Pi/4-DQPSK | 79 | |
| | 8-DPSK | 79 | |

GFSK Mode



Pi/4-DQPSK Mode





Attachment E-- Average Time of Occupancy Test Data

| | | | | | | | |
|--|---------------|---------------------|---------------------|--------------------|------------|--------|--|
| Temperature: | | 25°C | | Relative Humidity: | | 55% | |
| Test Voltage: | | AC 120V/60 Hz | | | | | |
| Test Mode: | | Hopping Mode (GFSK) | | | | | |
| Test Mode | Channel (MHz) | Pulse Time (ms) | Total of Dwell (ms) | Period Time (s) | Limit (ms) | Result | |
| 1DH1 | 2441 | 0.3715 | 118.88 | 31.60 | 400 | PASS | |
| 1DH3 | 2441 | 1.628 | 260.48 | 31.60 | 400 | PASS | |
| 1DH5 | 2441 | 2.876 | 306.77 | 31.60 | 400 | PASS | |
| 1DH1 Total of Dwell= Pulse Time*(1600/2)*31.6/79 | | | | | | | |
| 1DH3 Total of Dwell= Pulse Time*(1600/4)*31.6/79 | | | | | | | |
| 1DH5 Total of Dwell= Pulse Time*(1600/6)*31.6/79 | | | | | | | |
| GFSK Hopping Mode 1DH1 | | | | | | | |
| 2441 MHz | | | | | | | |

Keysight Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Trig Delay: 1.000 ms

Avg Type: Log-Pwr

Ref Offset 4 dB

Ref 24.00 dBm

Delta 2 371.5 us

Delta 1 999.0 us

Delta 1 -13.43 dBm

Center 2.441000000 GHz

Res BW 1.0 MHz

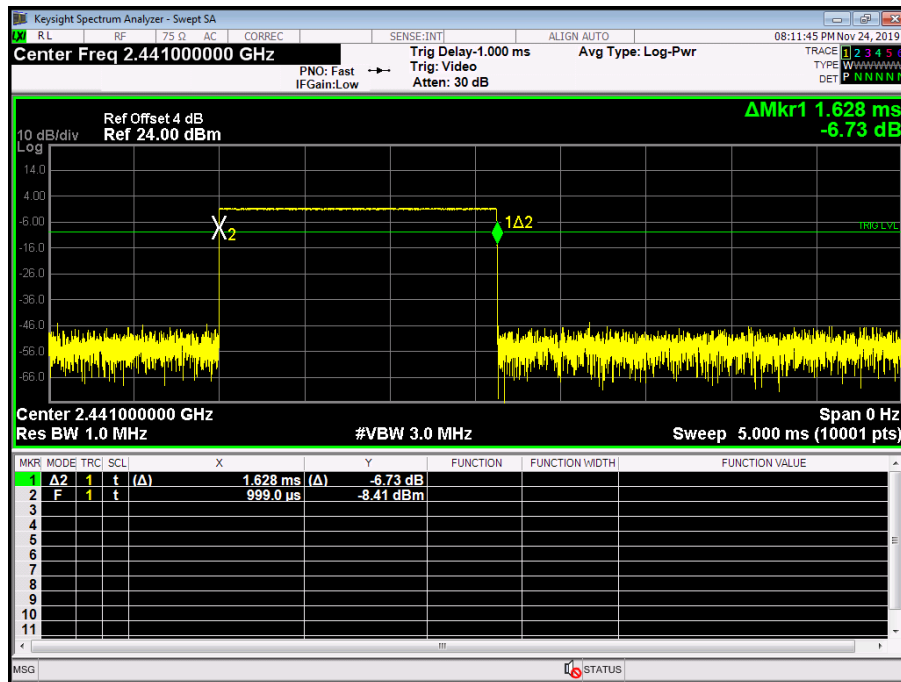
#VBW 3.0 MHz

Sweep 5.000 ms (10001 pts)

| MKR | MODE | TRC | SCL | X | Y | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE |
|-----|------|-----|-----|-----|----------|------------|----------------|----------------|
| 1 | Δ2 | 1 | t | (Δ) | 371.5 us | (Δ) | | |
| 2 | F | 1 | t | | 999.0 us | -13.43 dBm | | |

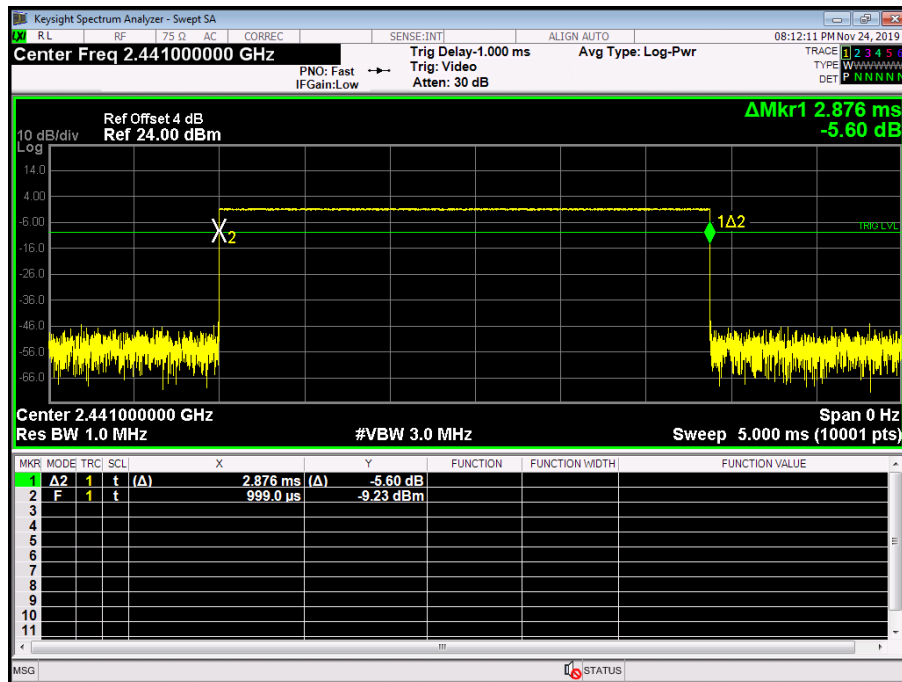
GFSK Hopping Mode 1DH3

2441 MHz

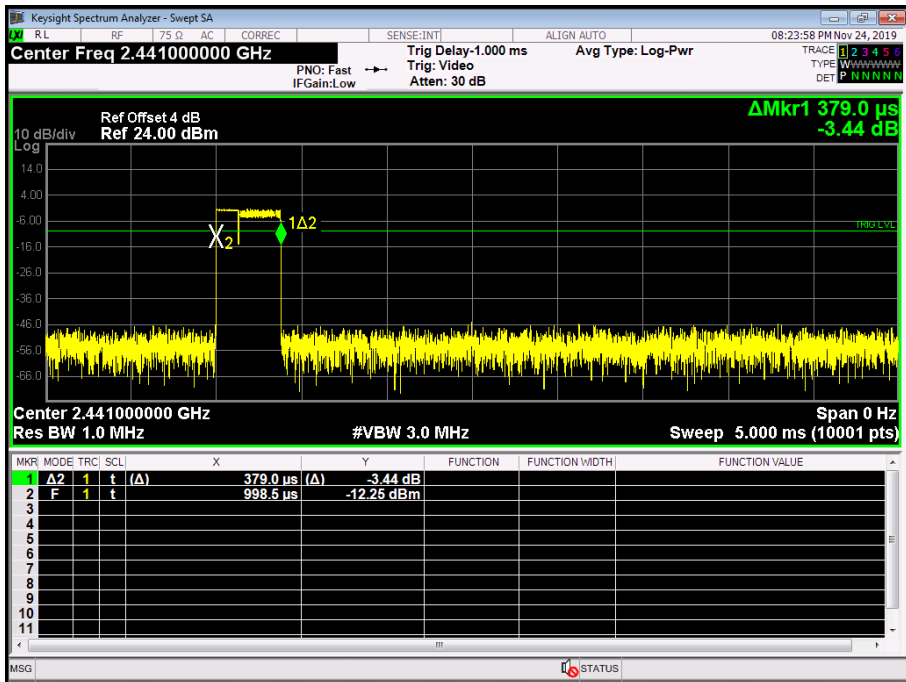


GFSK Hopping Mode 1DH5

2441 MHz

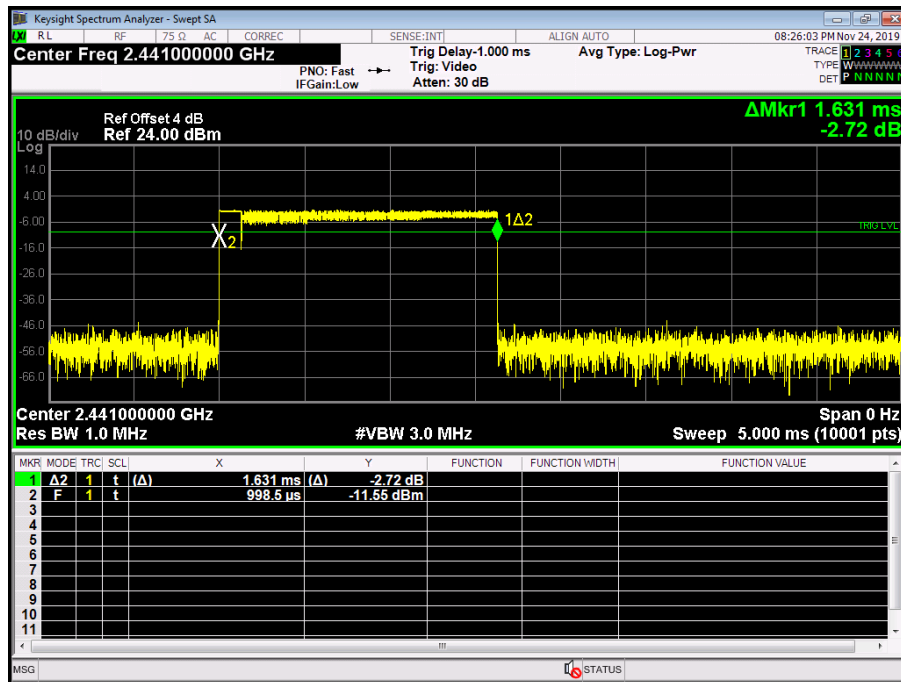


| Temperature: | | 25°C | | Relative Humidity: | | 55% | |
|--|---------------|---------------------------|---------------------|--------------------|------------|--------|--|
| Test Voltage: | | AC 120V/60 Hz | | | | | |
| Test Mode: | | Hopping Mode (Pi/4-DQPSK) | | | | | |
| Test Mode | Channel (MHz) | Pulse Time (ms) | Total of Dwell (ms) | Period Time (s) | Limit (ms) | Result | |
| 2DH1 | 2441 | 0.379 | 121.28 | 31.60 | 400 | PASS | |
| 2DH3 | 2441 | 1.631 | 260.96 | 31.60 | 400 | PASS | |
| 2DH5 | 2441 | 2.879 | 307.09 | 31.60 | 400 | PASS | |
| 2DH1 Total of Dwell= Pulse Time*(1600/2)*31.6/79 | | | | | | | |
| 2DH3 Total of Dwell= Pulse Time*(1600/4)*31.6/79 | | | | | | | |
| 2DH5 Total of Dwell= Pulse Time*(1600/6)*31.6/79 | | | | | | | |
| Pi/4-DQPSK Hopping Mode 2DH1 | | | | | | | |
| 2441 MHz | | | | | | | |



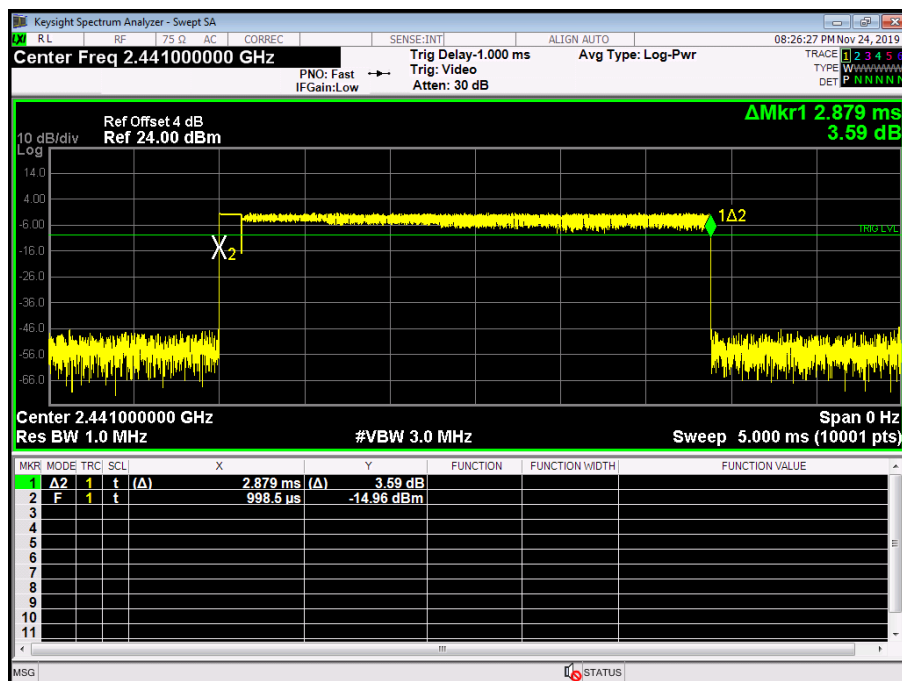
Pi/4-DQPSK Hopping Mode 2DH3

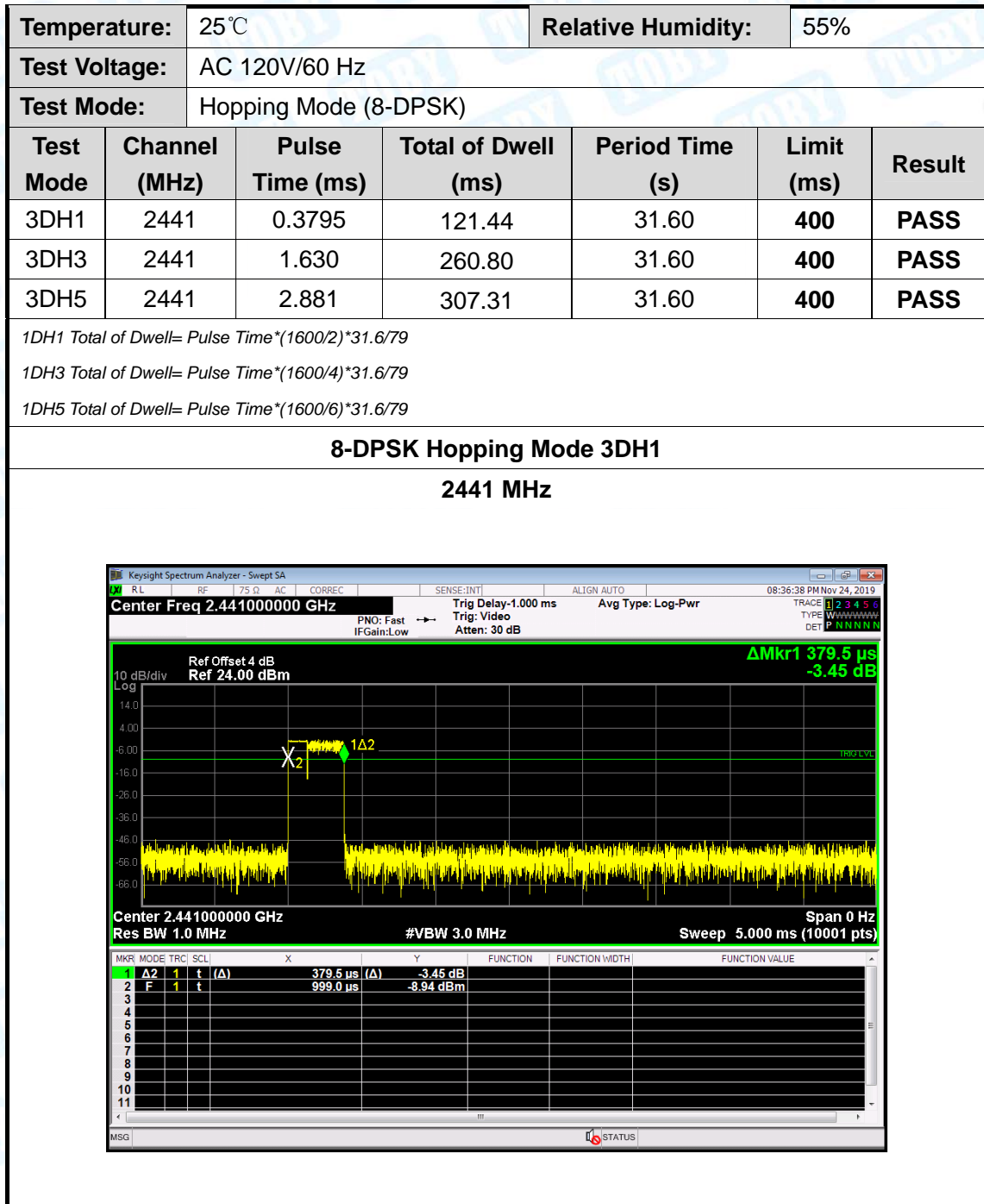
2441 MHz



Pi/4-DQPSK Hopping Mode 2DH5

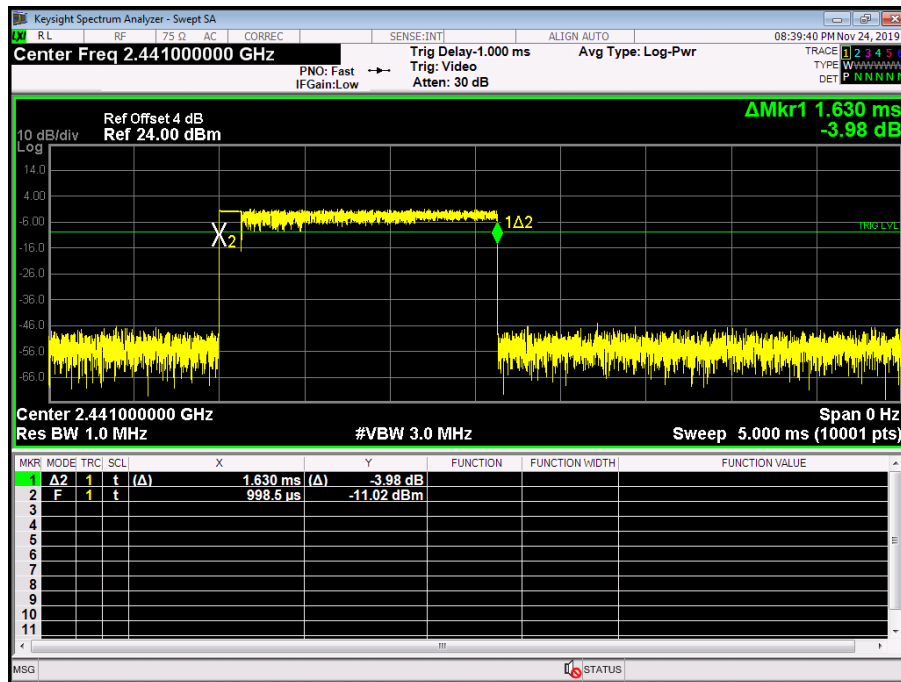
2441 MHz





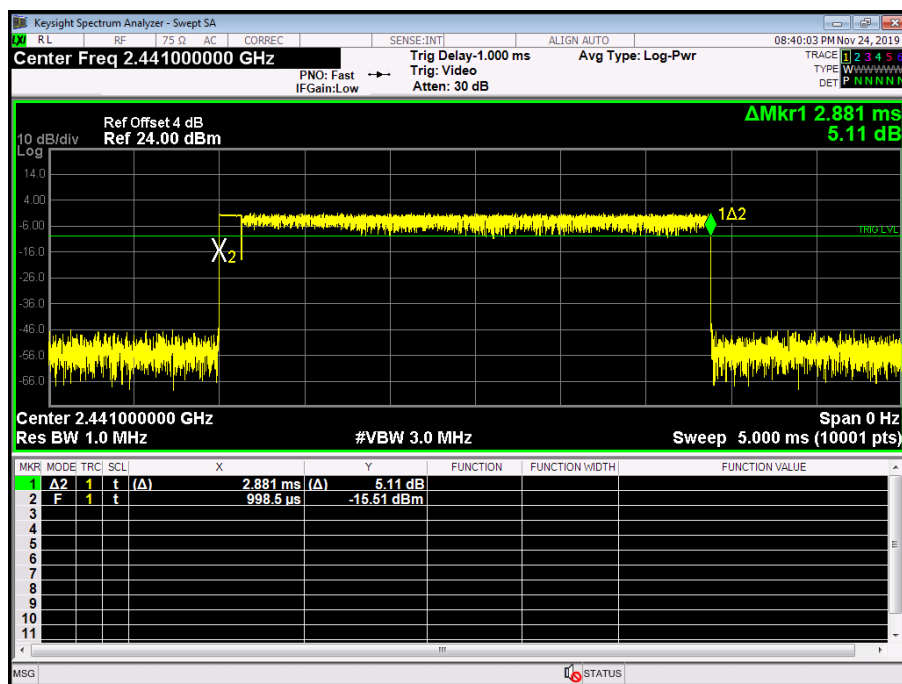
8-DPSK Hopping Mode 3DH3

2441 MHz

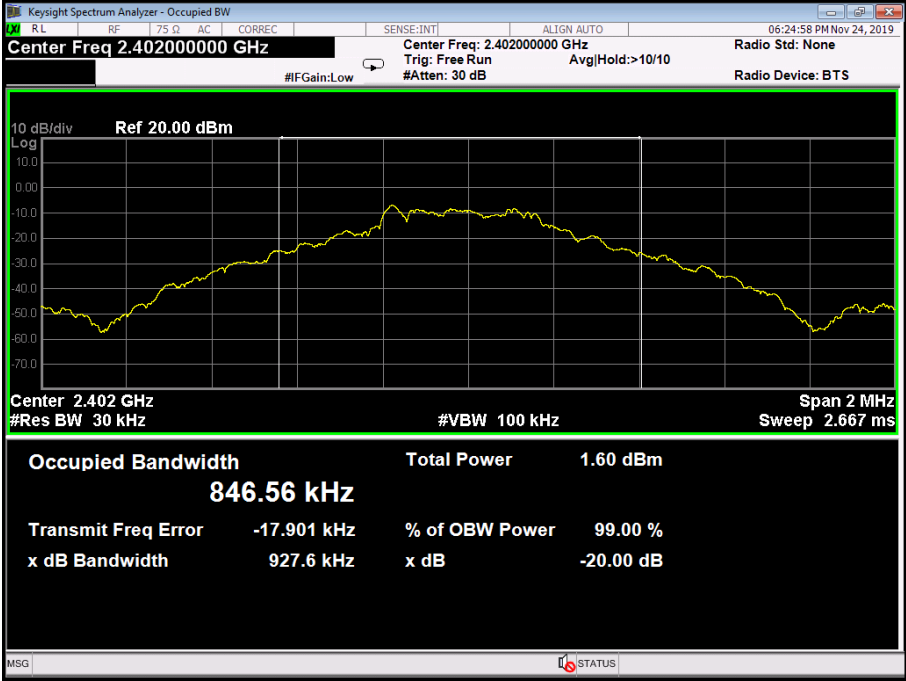


8-DPSK Hopping Mode 3DH5

2441 MHz

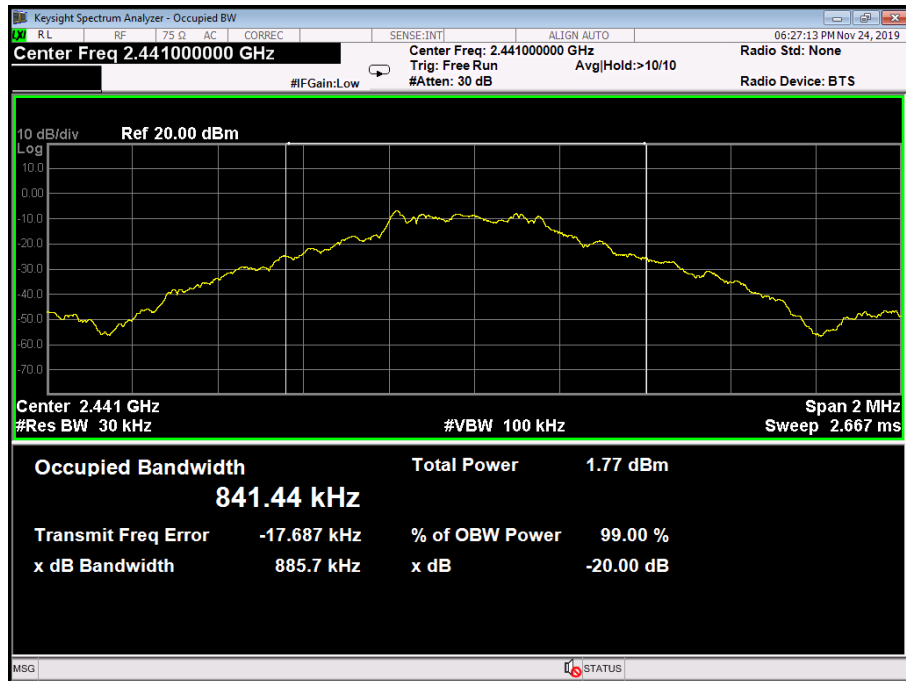


Attachment F-- Channel Separation and Bandwidth Test Data

| Temperature: | 25°C | Relative Humidity: | 55% |
|---|----------------|---------------------------|---------------------------|
| Test Voltage: | AC 120V/60 Hz | | |
| Test Mode: | TX Mode (GFSK) | | |
| Channel frequency (MHz) | 99% OBW (kHz) | 20dB Bandwidth (kHz) | 20dB Bandwidth *2/3 (kHz) |
| 2402 | 846.56 | 927.6 | |
| 2441 | 841.44 | 885.7 | |
| 2480 | 843.49 | 919.9 | |
| GFSK TX Mode | | | |
| 2402 MHz | | | |
|  <p>Keysight Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 2.402000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: >10/10</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref 20.00 dBm</p> <p>Center 2.402 GHz</p> <p>#Res BW 30 kHz</p> <p>#VBW 100 kHz</p> <p>Span 2 MHz</p> <p>Sweep 2.667 ms</p> <p>Occupied Bandwidth 846.56 kHz</p> <p>Total Power 1.60 dBm</p> <p>Transmit Freq Error -17.901 kHz</p> <p>% of OBW Power 99.00 %</p> <p>x dB Bandwidth 927.6 kHz</p> <p>x dB -20.00 dB</p> | | | |

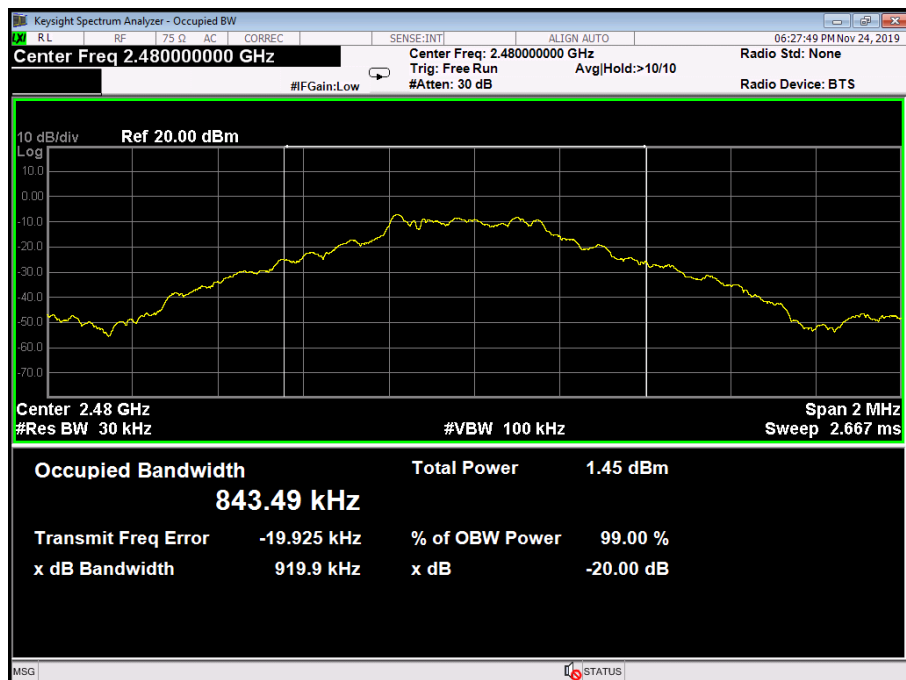
GFSK TX Mode

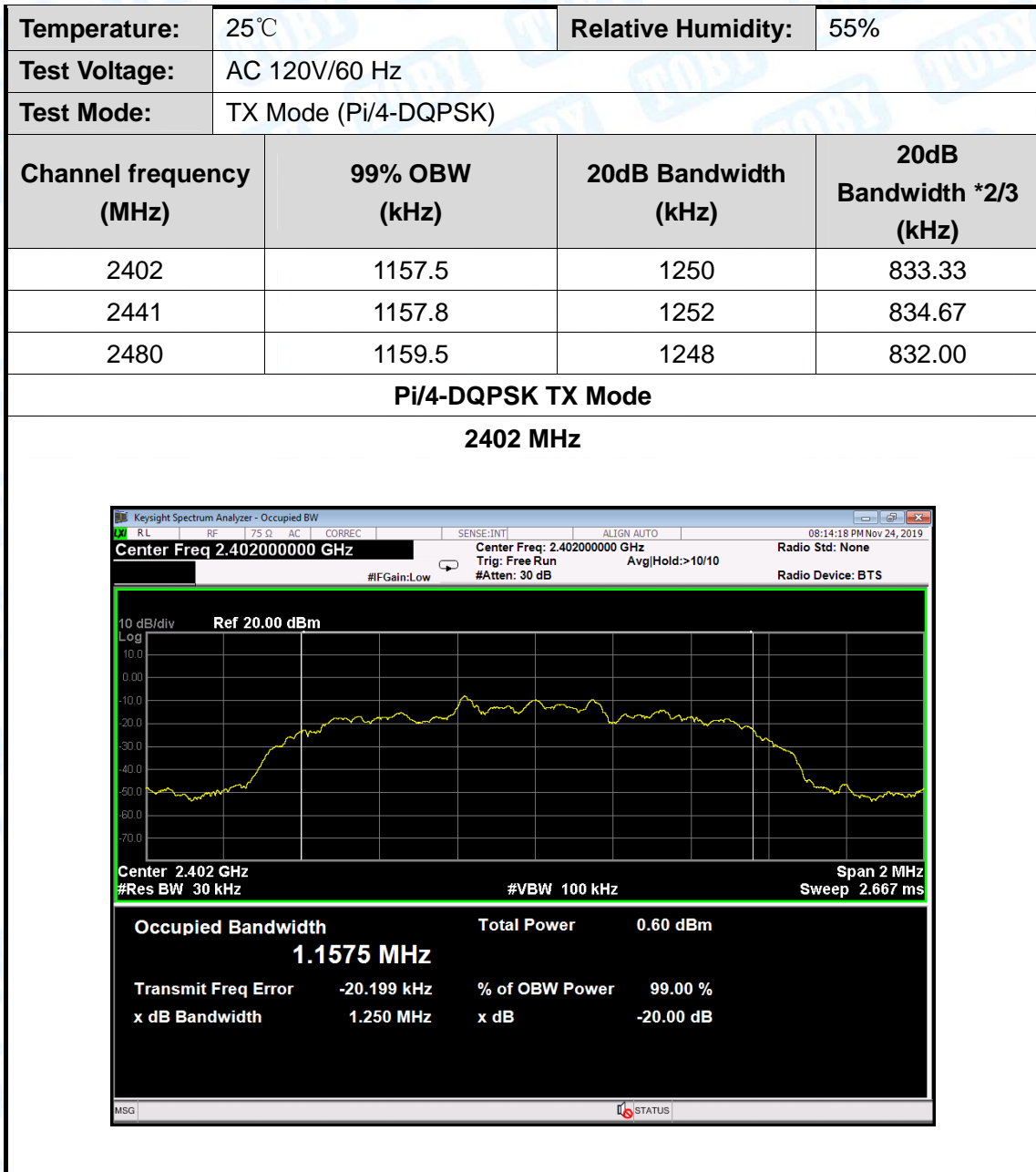
2441 MHz



GFSK TX Mode

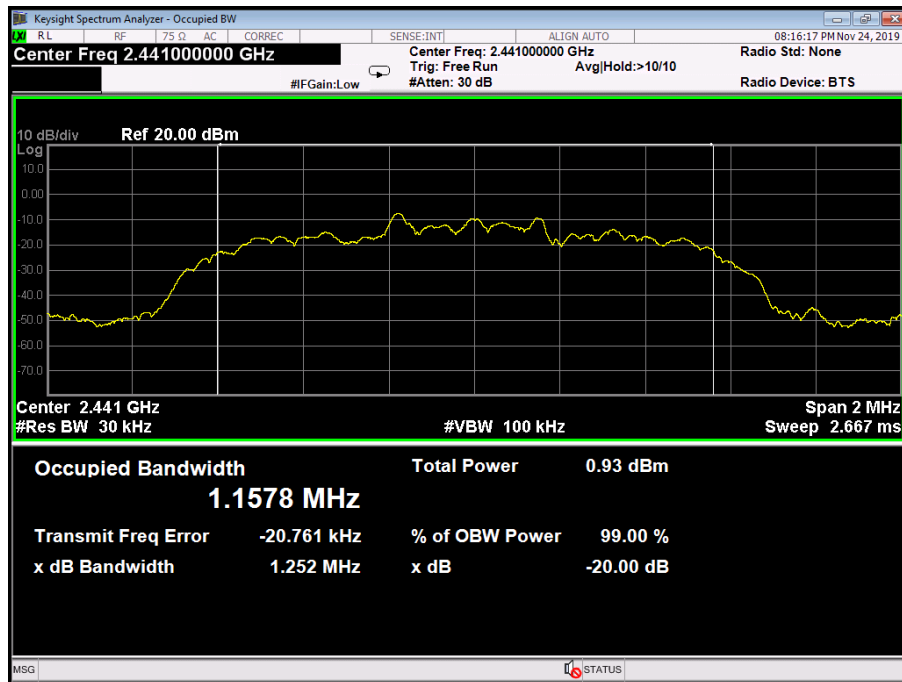
2480 MHz





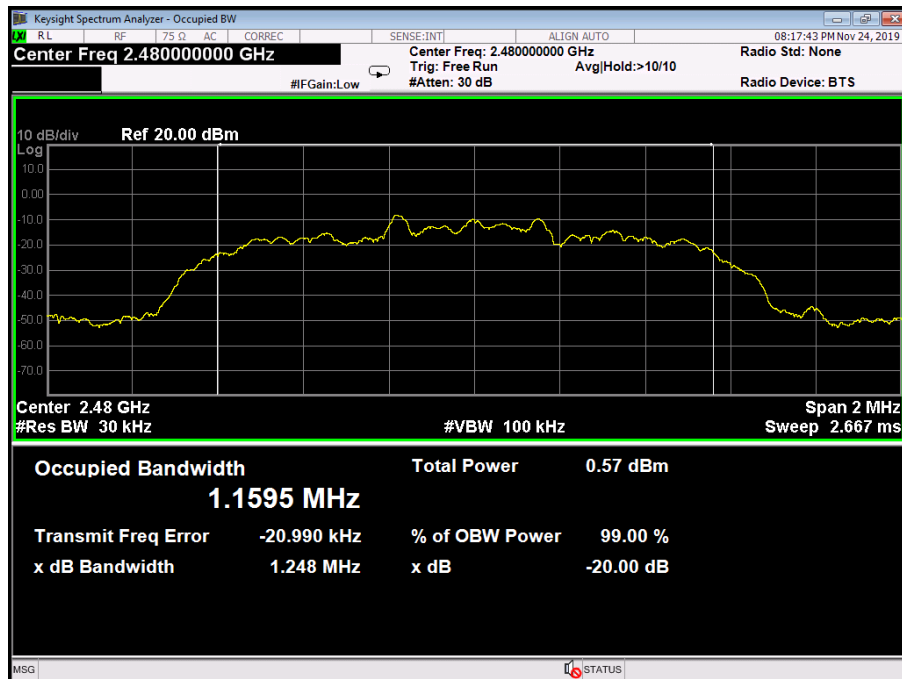
Pi/4-DQPSK TX Mode

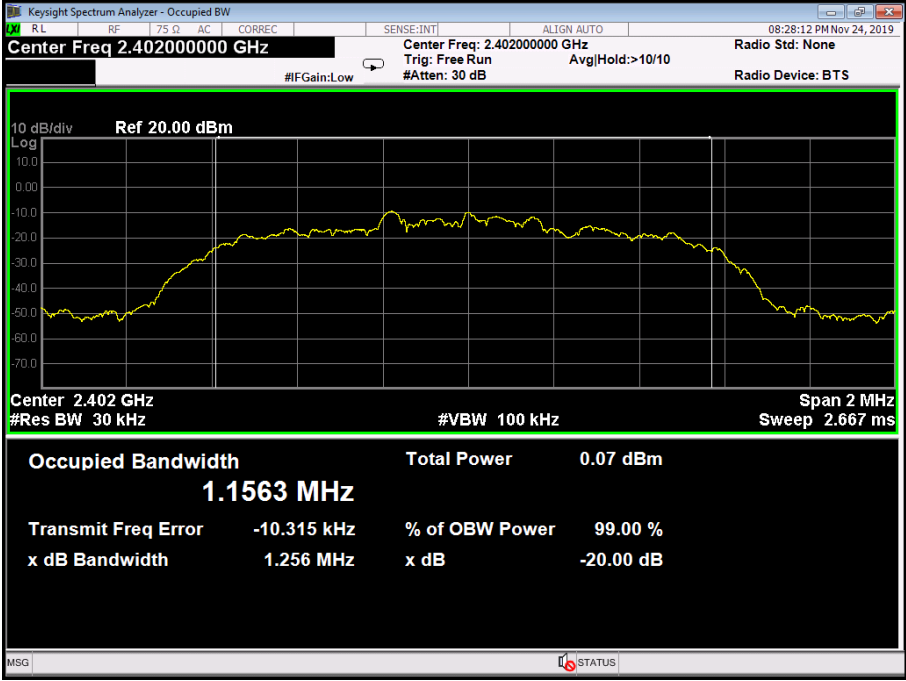
2441 MHz



Pi/4-DQPSK TX Mode

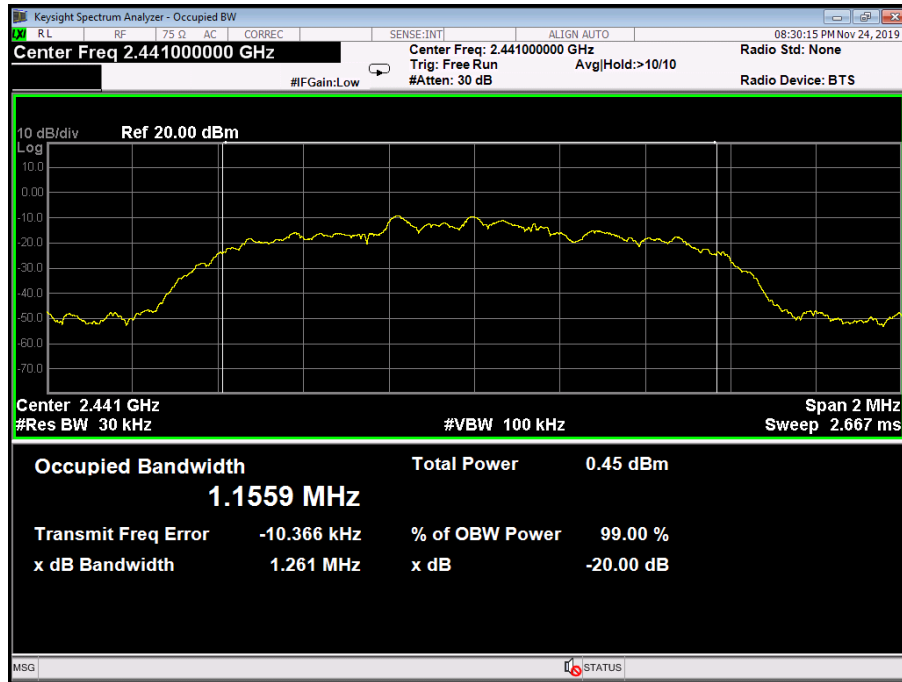
2480 MHz



| Temperature: | 25°C | Relative Humidity: | 55% |
|---|------------------|---------------------------|---------------------------|
| Test Voltage: | AC 120V/60 Hz | | |
| Test Mode: | TX Mode (8-DPSK) | | |
| Channel frequency (MHz) | 99% OBW (kHz) | 20dB Bandwidth (kHz) | 20dB Bandwidth *2/3 (kHz) |
| 2402 | 1156.3 | 1256 | 837.33 |
| 2441 | 1155.9 | 1261 | 840.67 |
| 2480 | 1158.7 | 1262 | 841.33 |
| 8-DPSK TX Mode | | | |
| 2402 MHz | | | |
|  | | | |

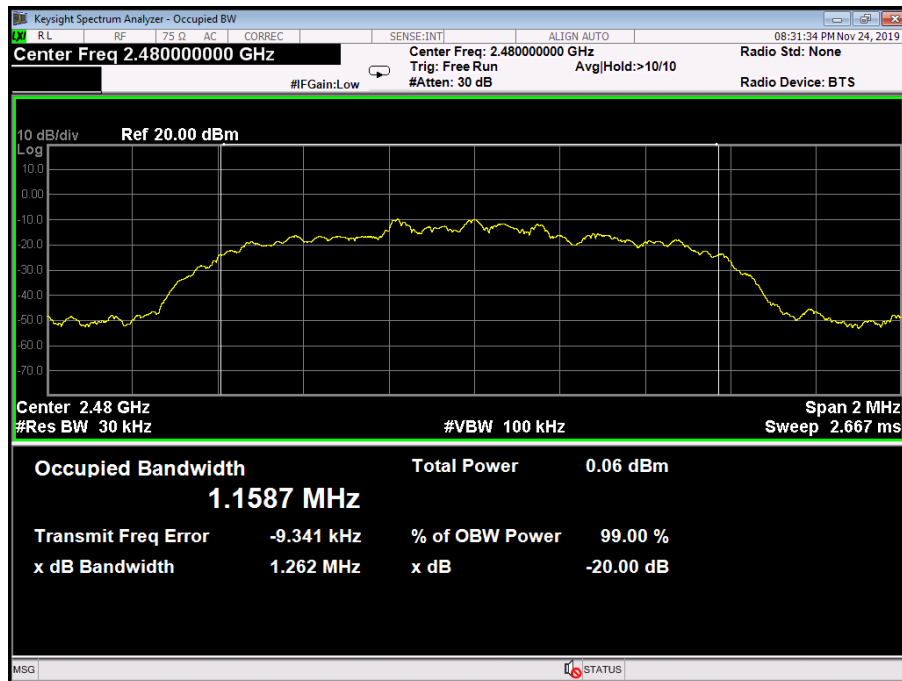
8-DPSK TX Mode

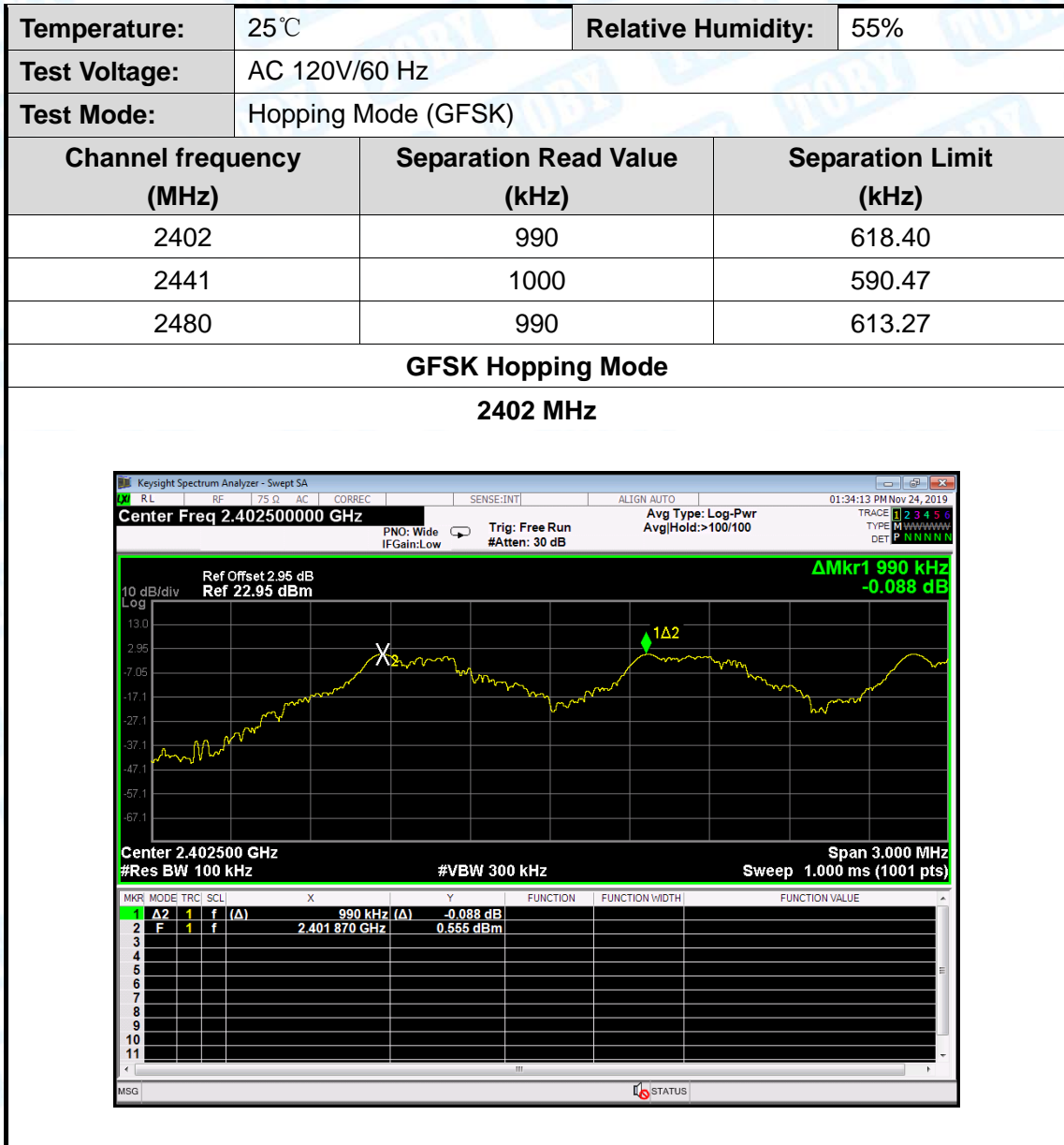
2441 MHz



8-DPSK TX Mode

2480 MHz





GFSK Hopping Mode

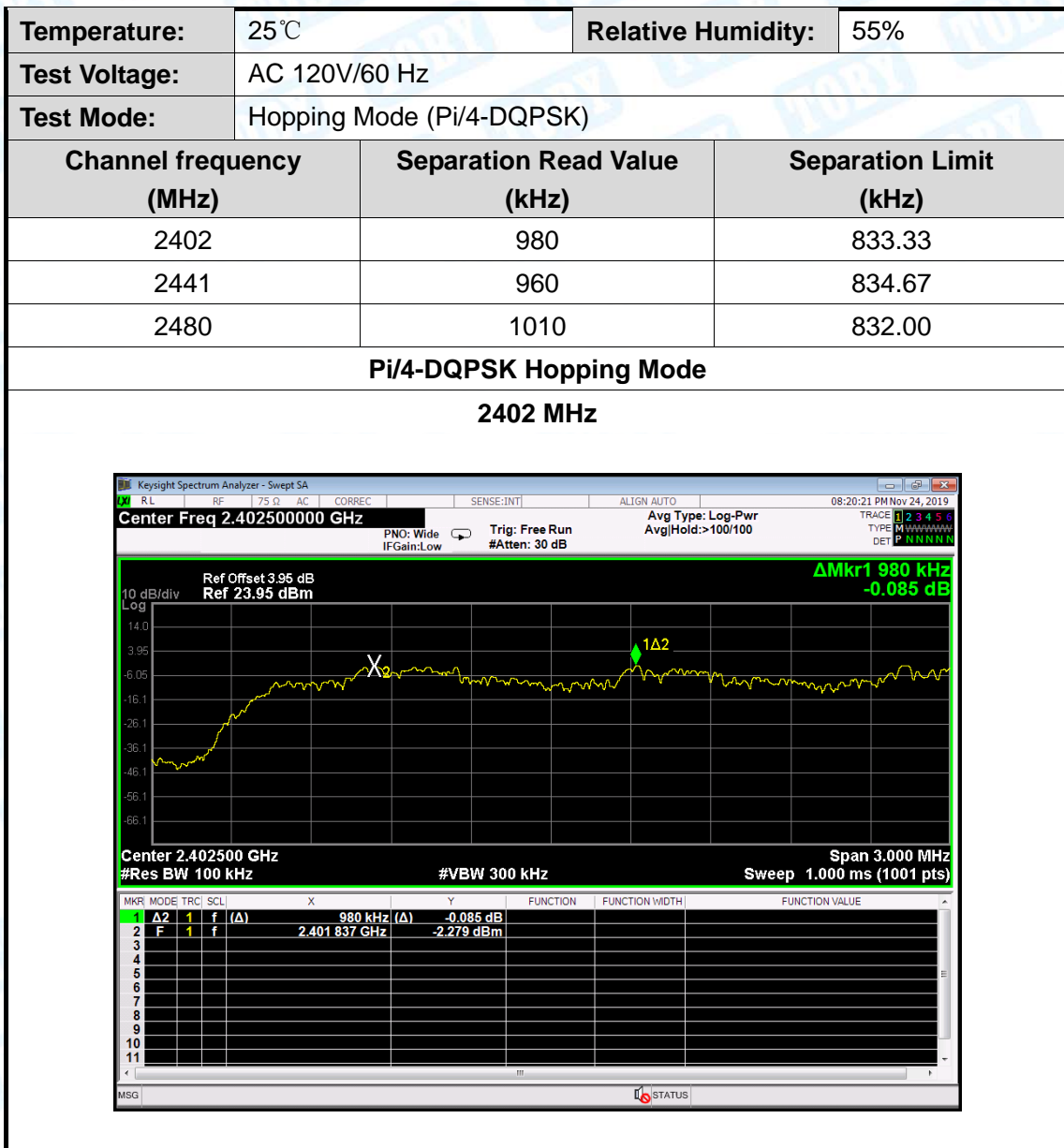
2441 MHz



GFSK Hopping Mode

2480 MHz





Pi/4-DQPSK Hopping Mode

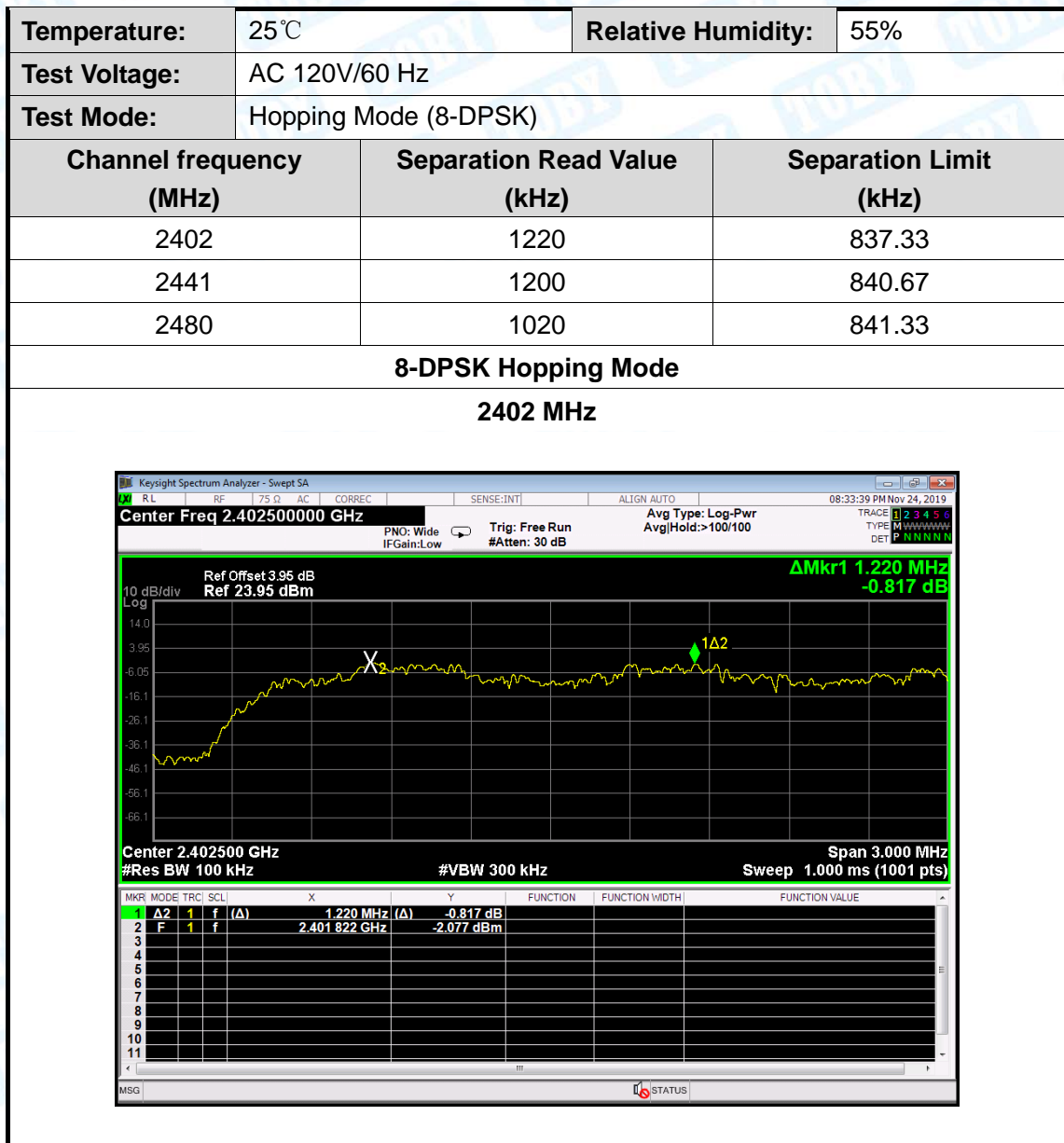
2441 MHz



Pi/4-DQPSK Hopping Mode

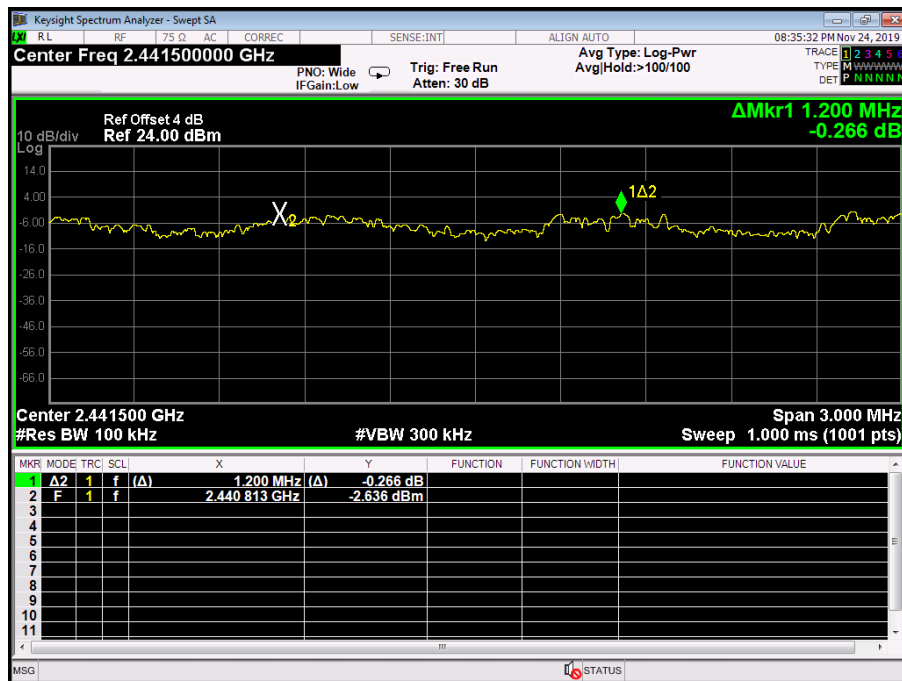
2480 MHz





8-DPSK Hopping Mode

2441 MHz



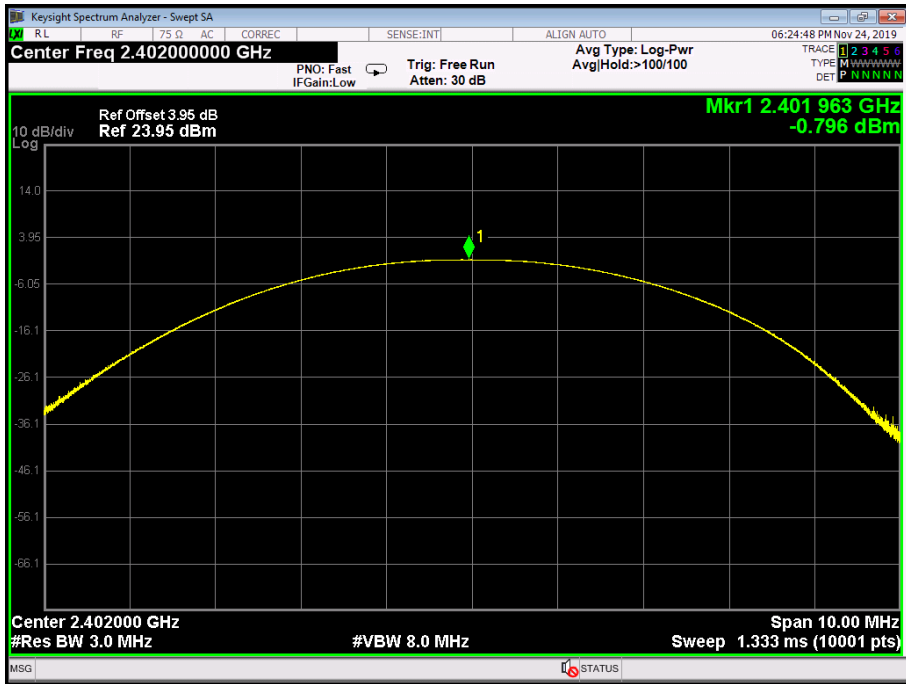
8-DPSK Hopping Mode

2480 MHz



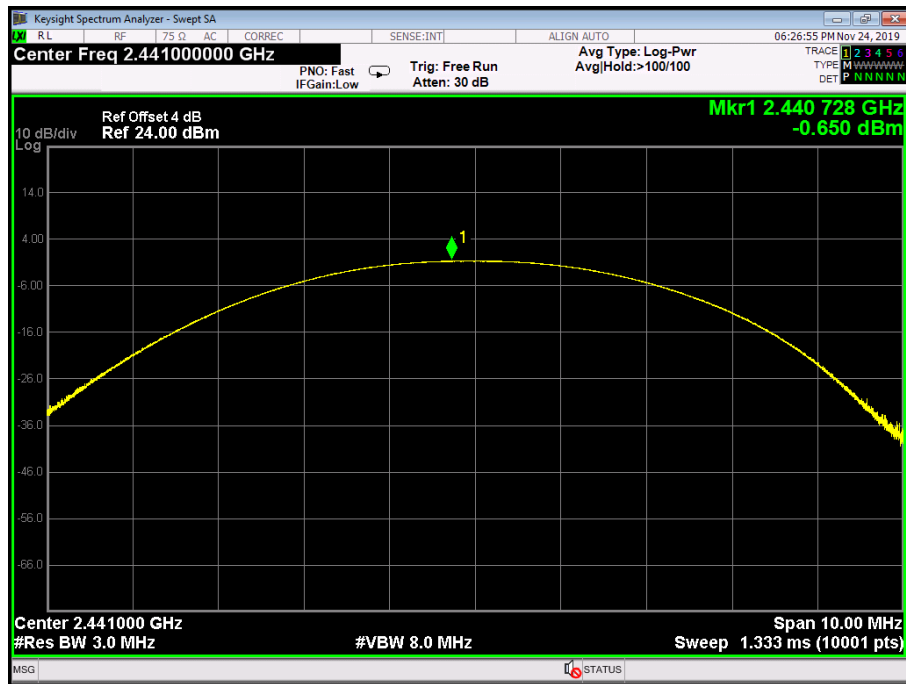
Attachment G-- Peak Output Power Test Data

| | | | |
|-------------------------|-------------------|--------------------|-----|
| Temperature: | 25℃ | Relative Humidity: | 55% |
| Test Voltage: | AC 120V/60 Hz | | |
| Test Mode: | TX Mode (GFSK) | | |
| Channel frequency (MHz) | Test Result (dBm) | Limit (dBm) | |
| 2402 | -0.796 | 30 | |
| 2441 | -0.650 | | |
| 2480 | -1.001 | | |
| GFSK TX Mode | | | |
| 2402 MHz | | | |



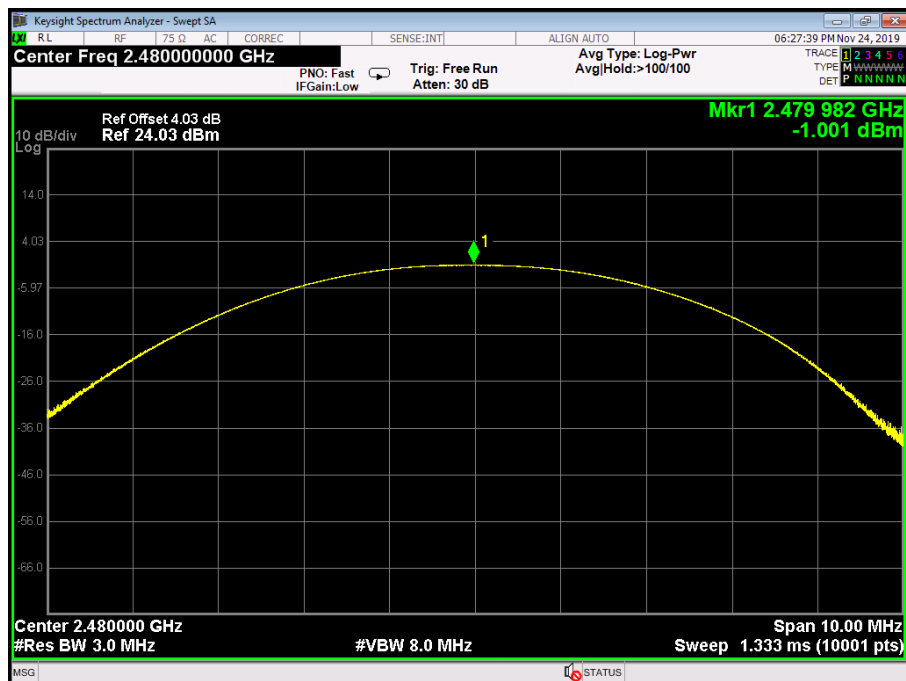
GFSK TX Mode

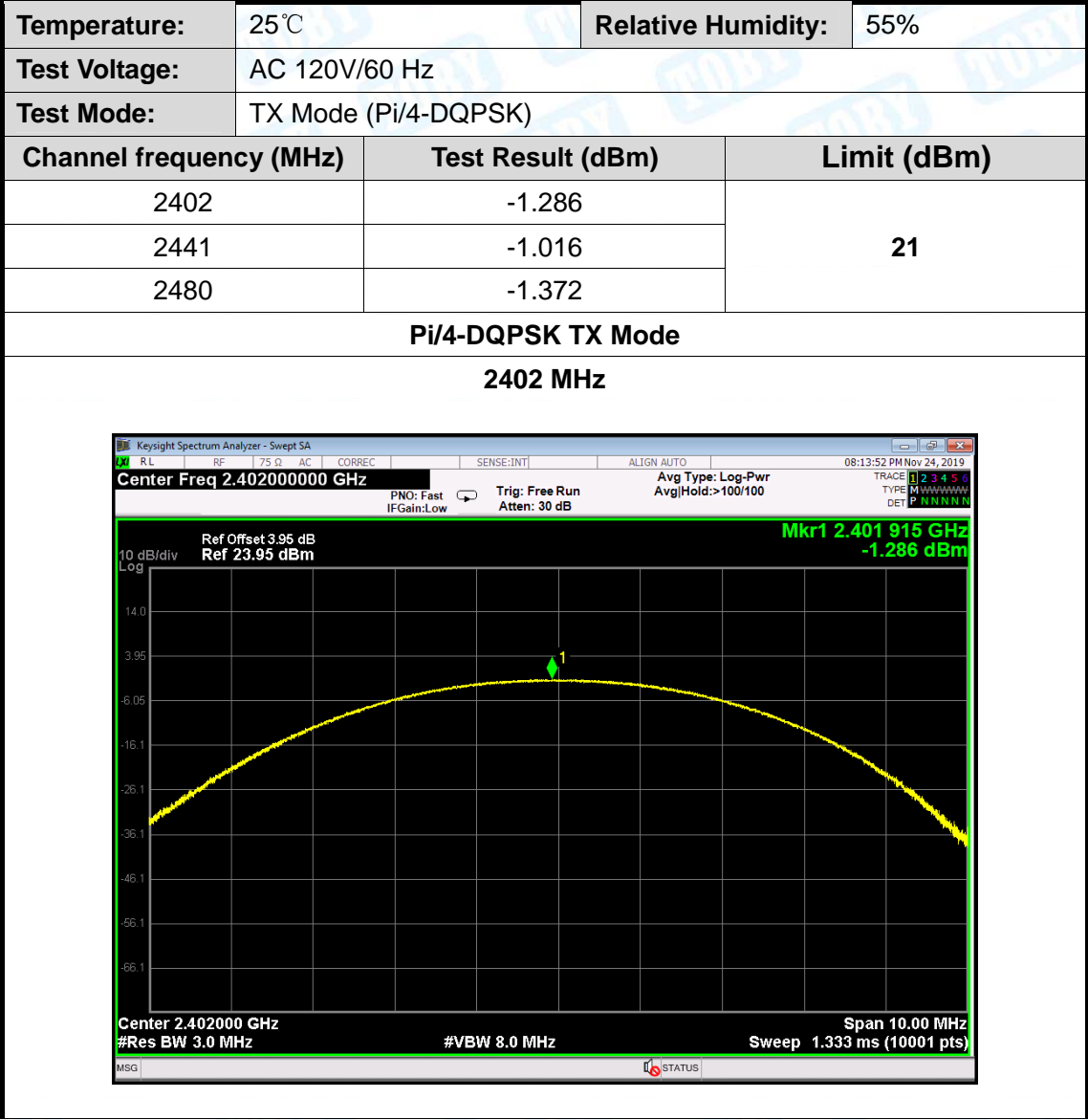
2441 MHz



GFSK TX Mode

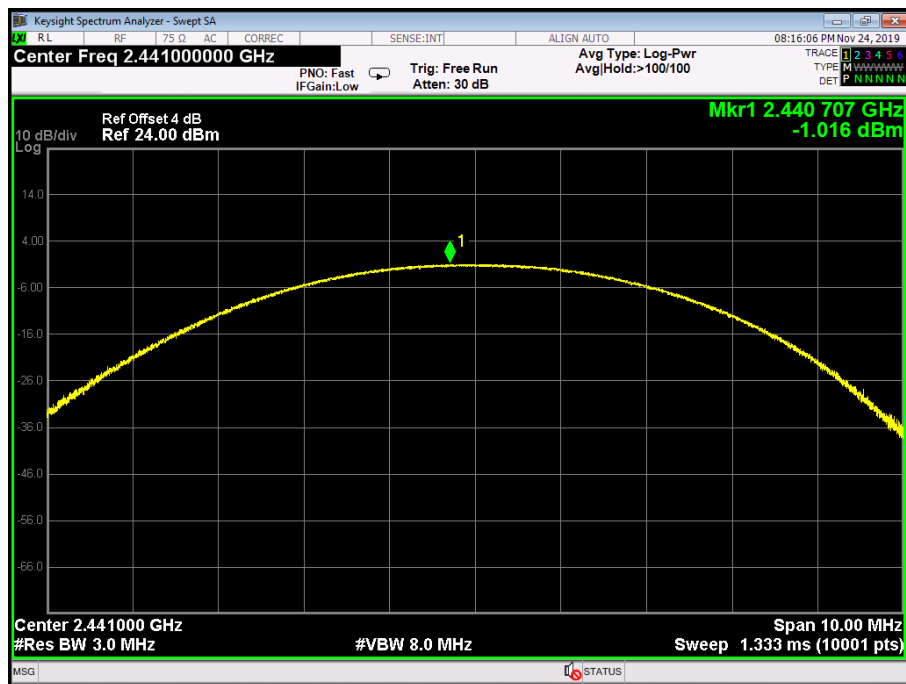
2480 MHz





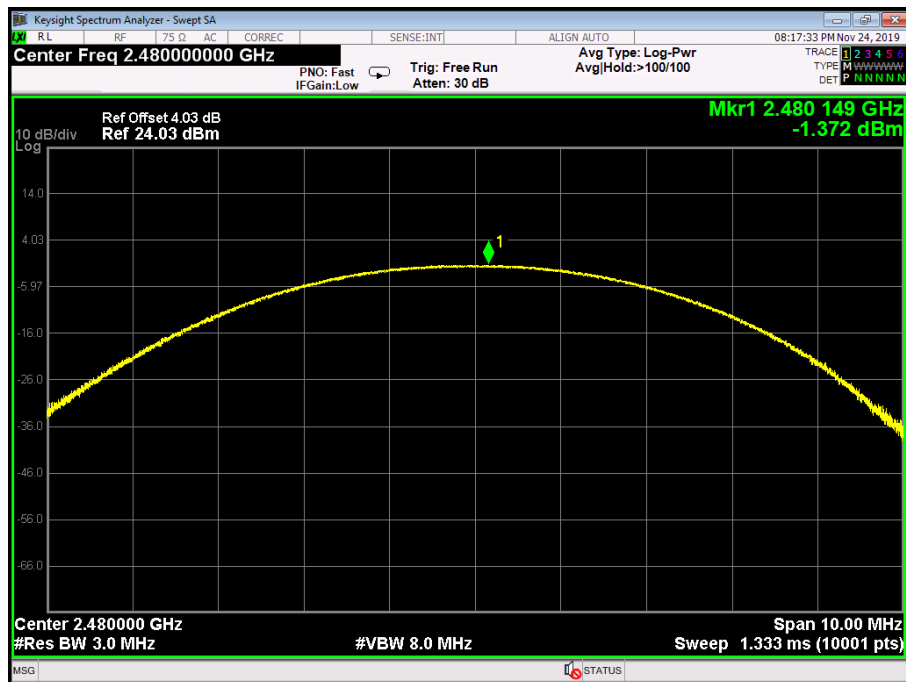
Pi/4-DQPSK TX Mode

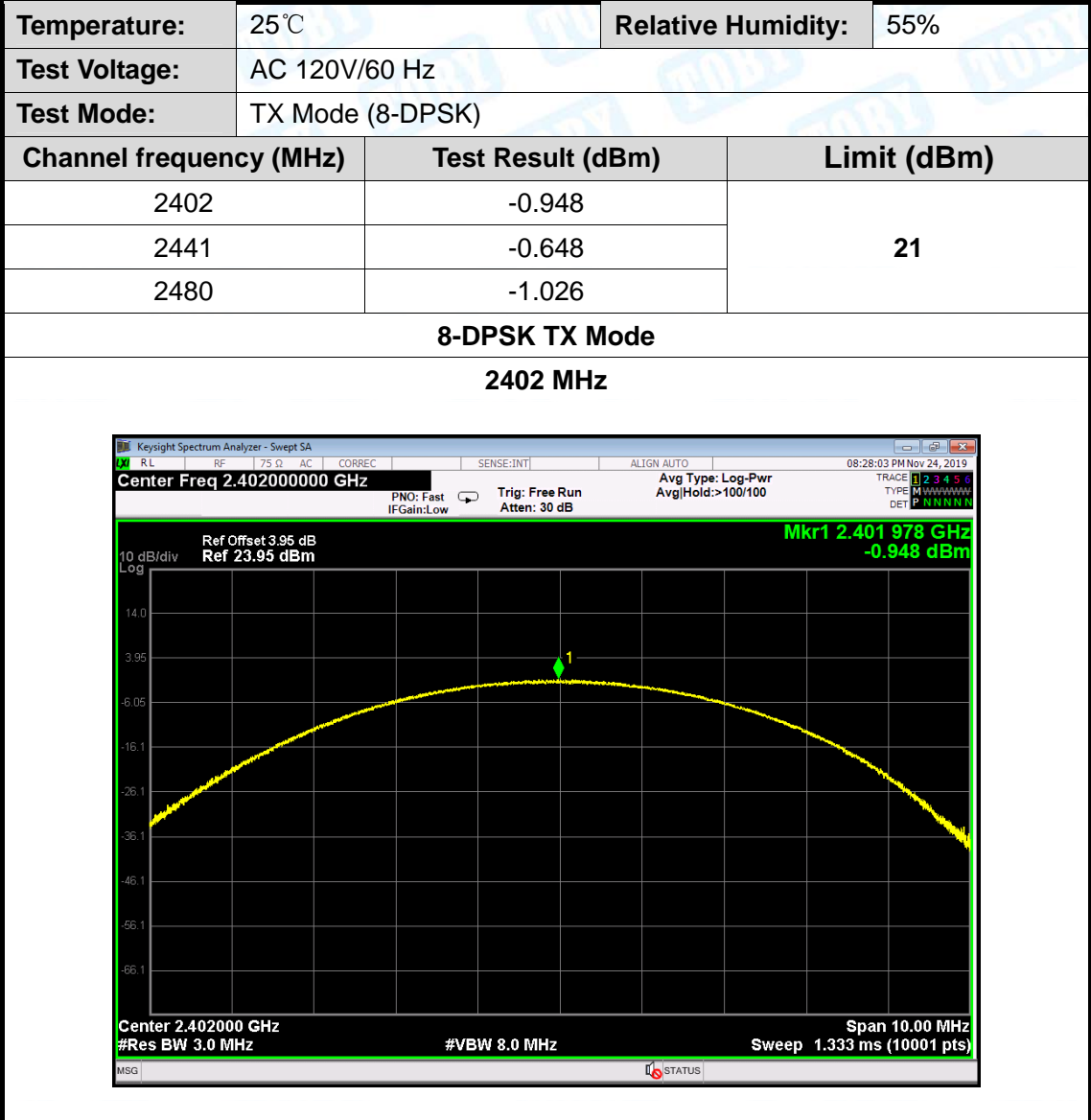
2441 MHz



Pi/4-DQPSK TX Mode

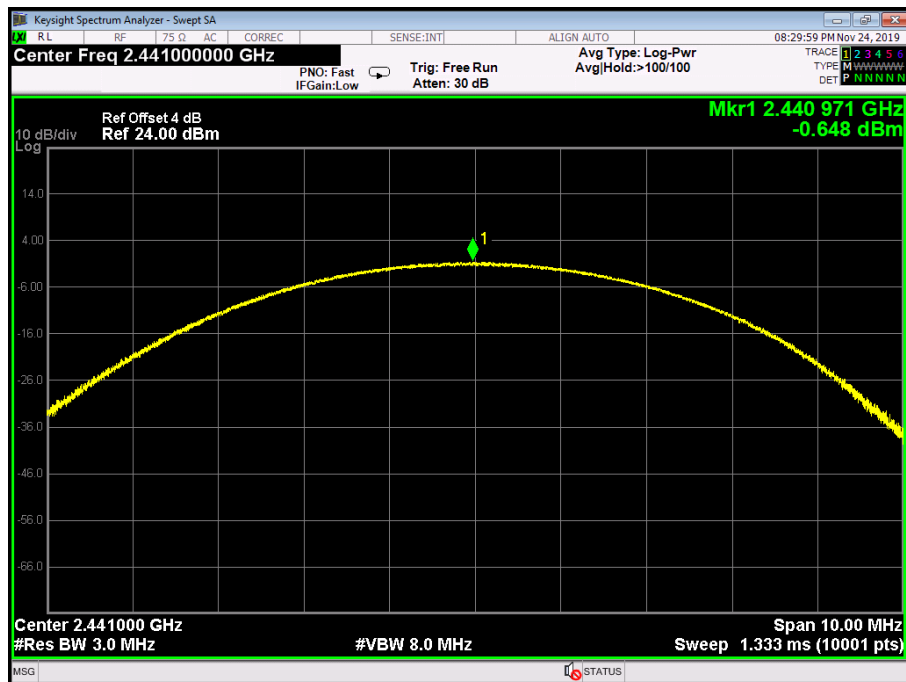
2480 MHz





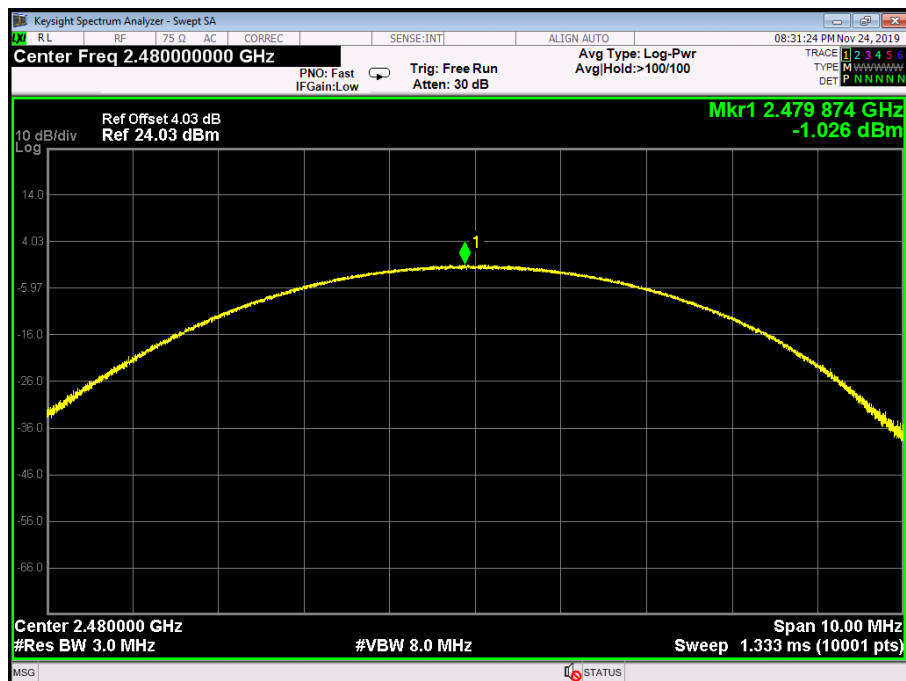
8-DPSK TX Mode

2441 MHz



8-DPSK TX Mode

2480 MHz



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