# FCC TEST REPORT
# FCC ID:2AZSY-ANC

| | |
|---|---|
| **Report Number.....:** | **ZKT-2606030335E** |
| Date of Test.....: | Jun. 03, 2026 to Jun. 10, 2026 |
| Date of issue.....: | Jun. 10, 2026 |
| Total number of pages.....: | 54 |
| Test Result .....: | PASS |
| **Testing Laboratory..... :** | **Shenzhen ZKT Technology Co., Ltd.** |
| Address .....: | 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China |
| **Applicant's name .....:** | **Dongguan Symsta Electronics.,LTD** |
| Address .....: | Building 1,No.9,Xifa Road,Lincun,Tangxia Town,Dongguan,China |
| **Manufacturer's name .....:** | **Dongguan Symsta Electronics.,LTD** |
| Address .....: | Building 1,No.9,Xifa Road,Lincun,Tangxia Town,Dongguan,China |
| Test specification: | |
| Standard.....: | FCC CFR Title 47 Part 15 Subpart C Section 15.247<br>ANSI C63.10-2020+Cor 1-2023 |
| Test procedure.....: | / |
| Non-standard test method .....: | N/A |
| **Test Report Form No.....:** | TRF-EL-112_V0 |
| **Test Report Form(s) Originator.....:** | ZKT Testing |
| **Master TRF .....:** | Dated: 2020-01-06 |

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.
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| | |
|---|---|
| **Product name.....:** | **Bluetooth Headphone** |
| Trademark .....: | N/A |
| Model/Type reference.....: | ANC |
| Ratings.....: | Input: 5V⎓1A<br>Battery: DC 3.7V, 200mAh, 0.74Wh |

Testing procedure and testing location:

| | |
|---|---|
| Testing Laboratory.....: | Shenzhen ZKT Technology Co., Ltd. |
| Address..... : | 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China |
| Tested by (name + signature).....: | Jim Liu |
| Reviewer (name + signature)..... : | Jackson Fang |
| Approved (name + signature)..... : | Lake Xie |

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## 1. VERSION

| Report No. | Version | Description | Approved |
|---|---|---|---|
| ZKT-2606030335E | Rev.01 | Initial issue of report | Jun. 10, 2026 |
| | | | |

## 2. TEST SUMMARY

Test procedures according to the technical standards:

| FCC Part15 (15.247) , Subpart C | | | |
|---|---|---|---|
| Standard Section | Test Item | Result | Remark |
| 15.203/15.247 (c) | Antenna Requirement | PASS | |
| 15.207 | AC Power Line Conducted Emission | PASS | |
| 15.247 (b)(1) | Conducted Peak Output Power | PASS | |
| 15.247 (a)(1) | 20dB Occupied Bandwidth | PASS | |
| 15.247 (a)(1) | Carrier Frequencies Separation | PASS | |
| 15.247 (a)(1)(iii) | Hopping Channel Number | PASS | |
| 15.247 (a)(1)(iii) | Dwell Time | PASS | |
| 15.247 (d) | Conducted Band Edge & Unwanted Spurious Emission | PASS | |
| 15.205/15.209 | Radiated Band Edge & Unwanted Spurious Emission | PASS | |

NOTE:

(1) “N/A” denotes test is not applicable in this Test Report

## 2.1 TEST FACILITY

Shenzhen ZKT Technology Co., Ltd.

Add. : 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China

FCC Test Firm Registration Number: 927491

Designation Number: CN1431

IC Registered No.: 27033

CAB identifier: CN0110

Designation Number: CN0110

## 2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ± 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 %.

| No. | Item | Uncertainty |
|---|---|---|
| 1 | 3m camber Radiated spurious emission (9KHz-30MHz) | U=4.5dB |
| 2 | 3m camber Radiated spurious emission (30MHz-1GHz) | U=4.8dB |
| 3 | 3m chamber Radiated spurious emission (1GHz-6GHz) | U=4.9dB |
| 4 | 3m chamber Radiated spurious emission (6GHz-40GHz) | U=5.0dB |
| 5 | Conducted Disturbance | U=3.2dB |
| 6 | RF Band Edge | U=1.68dB |
| 7 | RF Power Conducted | U=1.86dB |
| 8 | RF Conducted Spurious Emission | U=2.2dB |
| 9 | RF Occupied Bandwidth | U=1.8MHz |
| 10 | RF Power Spectral Density | U=1.75dB |
| 11 | Humidity Uncertainty | U=5.3% |
| 12 | Temperature Uncertainty | U=0.59℃ |
| 13 | RF Dwell Time | U=0.02ms |

## 3. GENERAL INFORMATION

### 3.1 GENERAL DESCRIPTION OF EUT

| | |
|---|---|
| Product Name: | Bluetooth Headphone |
| Trade Mark: | N/A |
| Model No.: | ANC |
| Serial No.: | N/A |
| Model Different.: | N/A |
| Hardware Version: | V1.0 |
| Software Version: | V1.0 |
| Sample(s) Status: | Engineer sample |
| Channel Numbers: | 79 Channels |
| Channel Spacing: | 1MHz |
| Operation Frequency: | 2402MHz~2480MHz |
| Modulation Technology: | GFSK, π/4-DQPSK |
| Antenna Type: | PCB Antenna |
| Antenna Gain: | -1.51dBi |
| Power Supply: | Input: 5V⎓1A |
| Battery Capacity: | DC 3.7V, 200mAh, 0.74Wh |

Note1: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

Note2: The EUT's all information provided by client.

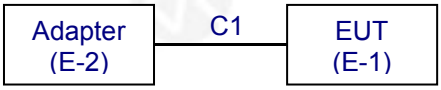
| Operation Frequency each of channel | | | | | | | |
|---|---|---|---|---|---|---|---|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1 | 2402MHz | 21 | 2422MHz | 41 | 2442MHz | 61 | 2462MHz |
| 2 | 2403MHz | 22 | 2423MHz | 42 | 2443MHz | 62 | 2463MHz |
| 3 | 2404MHz | 23 | 2424MHz | 43 | 2444MHz | 63 | 2464MHz |
| 4 | 2405MHz | 24 | 2425MHz | 44 | 2445MHz | 64 | 2465MHz |
| 5 | 2406MHz | 25 | 2426MHz | 45 | 2446MHz | 65 | 2466MHz |
| 6 | 2407MHz | 26 | 2427MHz | 46 | 2447MHz | 66 | 2467MHz |
| 7 | 2408MHz | 27 | 2428MHz | 47 | 2448MHz | 67 | 2468MHz |
| 8 | 2409MHz | 28 | 2429MHz | 48 | 2449MHz | 68 | 2469MHz |
| 9 | 2410MHz | 29 | 2430MHz | 49 | 2450MHz | 69 | 2470MHz |
| 10 | 2411MHz | 30 | 2431MHz | 50 | 2451MHz | 70 | 2471MHz |
| 11 | 2412MHz | 31 | 2432MHz | 51 | 2452MHz | 71 | 2472MHz |
| 12 | 2413MHz | 32 | 2433MHz | 52 | 2453MHz | 72 | 2473MHz |
| 13 | 2414MHz | 33 | 2434MHz | 53 | 2454MHz | 73 | 2474MHz |
| 14 | 2415MHz | 34 | 2435MHz | 54 | 2455MHz | 74 | 2475MHz |
| 15 | 2416MHz | 35 | 2436MHz | 55 | 2456MHz | 75 | 2476MHz |
| 16 | 2417MHz | 36 | 2437MHz | 56 | 2457MHz | 76 | 2477MHz |
| 17 | 2418MHz | 37 | 2438MHz | 57 | 2458MHz | 77 | 2478MHz |
| 18 | 2419MHz | 38 | 2439MHz | 58 | 2459MHz | 78 | 2479MHz |
| 19 | 2420MHz | 39 | 2440MHz | 59 | 2460MHz | 79 | 2480MHz |
| 20 | 2421MHz | 40 | 2441MHz | 60 | 2461MHz | | |

Note:
In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Test channel | Frequency |
|---|---|
| The lowest channel | 2402MHz |
| The middle channel | 2441MHz |
| The Highest channel | 2480MHz |

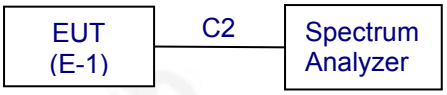
## 3.2 TEST SETUP CONFIGURATION

Conducted Emission




Radiated Emission

Conducted Spurious




## 3.3 SUPPORT EQUIPMENT

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Note |
|---|---|---|---|---|---|
| E-1 | Bluetooth Headphone | N/A | ANC | N/A | EUT |
| E-2 | AC/DC Adapter | UGREEN | X569 | E63003923231 | Auxiliary |
| | AC/DC Adapter Input: 100-240V ~ 50/60Hz, 1A Max; Output: 5V/9V/12V/15V/20V/28V | | | | |

| Item | Shielded Type | Ferrite Core | Length | Note |
|---|---|---|---|---|
| C1 | NO | NO | 0.8M | Type-C Cable |
| C2 | NO | NO | 0.1M | RF Line |

Note:
(1) The support equipment was authorized by Declaration of Confirmation.
(2) For detachable type I/O cable should be specified the length in cm in『Length』column.

## 3.4 TEST MODE

| | |
|---|---|
| Transmitting mode | Keep the EUT in continuously transmitting mode |
| Charging mode | Keep the EUT in charging mode |
| Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.<br>For battery operated equipment, the equipment tests shall be performed using a new battery. | |

| Test Software & Version | FCC_assist_1.0.2.2 |
|---|---|
| Mode | Power setting |
| GFSK | 10 |
| π/4-DQPSK | 10 |

## 3.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

### Conduction Emissions Test

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Firmware Version | Last calibration | Calibrated until |
|---|---|---|---|---|---|---|---|
| 1 | LISN | R&S | ENV216 | 101471 | N/A | Sep. 23, 2025 | Sep. 22, 2026 |
| 2 | LISN | CYBERTEK | EM5040A | E1850400149 | N/A | Sep. 19, 2025 | Sep. 18, 2026 |
| 3 | Test Cable | N/A | C-01 | N/A | N/A | May. 25, 2026 | May. 24, 2027 |
| 4 | EMI Test Receiver | R&S | ESCI3 | 101393 | 4.42 SP3 | Oct. 24, 2025 | Oct. 23, 2026 |
| 5 | EMC Software | Frad | EZ-EMC | Ver.EMC-CON 3A1.1 | N/A | \ | \ |

### Radiation Emissions & Radiation Spurious Emissions Test

| Item | Equipment | Manufacturer | Type No. | Serial No. | Firmware Version | Last calibration | Calibrated until |
|---|---|---|---|---|---|---|---|
| 1 | Spectrum Analyzer (9kHz-26.5GHz) | KEYSIGHT | N9020A | MY55370835 | A.17.05 | Sep. 20, 2025 | Sep. 19, 2026 |
| 2 | Spectrum Analyzer (10kHz-39.9GHz) | R&S | FSV40-N | 100363 | 1.71 SP2 | Sep. 20, 2025 | Sep. 19, 2026 |
| 3 | EMI Test Receiver (9kHz-7GHz) | R&S | ESCI7 | 100969 | 4.32 | Oct. 24, 2025 | Oct. 23, 2026 |
| 4 | Bilog Antenna (30MHz-1500MHz) | Schwarzbeck | VULB9168 | 00877 | N/A | Sep. 20, 2025 | Sep. 19, 2026 |
| 5 | Horn Antenna (1GHz-18GHz) | Agilent | AH-118 | 071145 | N/A | Sep. 20, 2025 | Sep. 19, 2026 |
| 6 | Horn Antenna (15GHz-40GHz) | A.H.System | SAS-574 | 588 | N/A | Sep. 30, 2025 | Sep. 29, 2026 |
| 7 | Loop Antenna | TESEQ | HLA6121 | 58357 | N/A | Sep. 20, 2025 | Sep. 19, 2026 |
| 8 | Amplifier (30-1000MHz) | EM Electronics | EM330 Amplifier | 60747 | N/A | Sep. 19, 2025 | Sep. 18, 2026 |
| 9 | Amplifier (1GHz-26.5GHz) | HuiPu | 8449B | 3008A00315 | N/A | Sep. 19, 2025 | Sep. 18, 2026 |
| 10 | Amplifier (500MHz-40GHz) | QuanJuDa | DLE-161 | 097 | N/A | Oct. 24, 2025 | Oct. 23, 2026 |
| 11 | Test Cable | N/A | R-01 | N/A | N/A | May. 25, 2026 | May. 24, 2027 |
| 12 | Test Cable | N/A | R-02 | N/A | N/A | May. 25, 2026 | May. 24, 2027 |
| 13 | Test Cable | N/A | R-03 | N/A | N/A | May. 25, 2026 | May. 24, 2027 |
| 14 | D.C. Power Supply | LongWei | TPR-6405D | N/A | N/A | \ | \ |
| 15 | EMC Software | Frad | EZ-EMC | Ver.EMC-CO N 3A1.1 | N/A | \ | \ |
| 16 | Turntable | MF | MF-7802BS | N/A | N/A | \ | \ |
| 17 | Antenna tower | MF | MF-7802BS | N/A | N/A | \ | \ |

RF Conducted Test

| Item | Equipment | Manufacturer | Type No. | Serial No. | Firmware Version | Last calibration | Calibrated until |
|---|---|---|---|---|---|---|---|
| 1 | Spectrum Analyzer (9kHz-26.5GHz) | KEYSIGHT | N9020A | MY55370835 | A.17.05 | Sep. 20, 2025 | Sep. 19, 2026 |
| 2 | Spectrum Analyzer (10kHz-39.9GHz) | R&S | FSV40-N | 100363 | 1.71 SP2 | Sep. 20, 2025 | Sep. 19, 2026 |
| 3 | Test Cable | N/A | RF-01 | N/A | N/A | May. 25, 2026 | May. 24, 2027 |
| 4 | Test Cable | N/A | RF-02 | N/A | N/A | May. 25, 2026 | May. 24, 2027 |
| 5 | Test Cable | N/A | RF-03 | N/A | N/A | May. 25, 2026 | May. 24, 2027 |
| 6 | ESG Signal Generator | Agilent | E4421B | GB40051203 | B.03.84 | Sep. 19, 2025 | Sep. 18, 2026 |
| 7 | Signal Generator | Agilent | N5182A | MY47420215 | A.01.87 | Sep. 20, 2025 | Sep. 19, 2026 |
| 8 | Magnetic Field Probe Tester | Narda | ELT-400 | 0-0344 | N/A | Sep. 25, 2025 | Sep. 24, 2026 |
| 9 | SHIELD BOX | TESCOM | TC-5970C | 5970C015553 | N/A | Dec. 18, 2025 | Dec. 17, 2026 |
| 10 | Wideband Radio Communication Test | R&S | CMW500 | 106504 | V 3.7.22 | Sep. 28, 2025 | Sep. 27, 2026 |
| 11 | MWRF Power Meter Test system | MW | MW100-RFCB | 10371 | N/A | Sep. 19, 2025 | Sep. 18, 2026 |
| 12 | MWRF Power Sensor | MW | MW100-PSB | 10371 | N/A | Sep. 19, 2025 | Sep. 18, 2026 |
| 13 | Power Meter | KEYSIGHT | N1912AP | 926431 | A.05.00 | Sep. 19, 2025 | Sep. 18, 2026 |
| 14 | D.C. Power Supply | LongWei | TPR-6405 D | GQ7516 | N/A | Sep. 19, 2025 | Sep. 18, 2026 |
| 15 | Attenuators | XINQY | XQY-SMAJKS-12-2W | N/A | N/A | Sep. 19, 2025 | Sep. 18, 2026 |
| 16 | RF Software | MW | MTS8310 | V2.0.0.0 | N/A | \ | \ |

## 4. EMC EMISSION TEST

### 4.1 CONDUCTED EMISSIONS

| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.207 |
| Test Method: | ANSI C63.10-2020+Cor 1-2023 |
| Test Frequency Range: | 150KHz to 30MHz |
| Receiver setup: | RBW=9KHz, VBW=30KHz, Sweep time=auto |

#### 4.1.1 POWER LINE CONDUCTED EMISSION LIMITS

| FREQUENCY (MHz) | Limit (dBuV) | | Standard |
|---|---|---|---|
| | Quasi-peak | Average | |
| 0.15 -0.5 | 66 - 56 * | 56 - 46 * | FCC |
| 0.50 -5.0 | 56.00 | 46.00 | FCC |
| 5.0 -30.0 | 60.00 | 50.00 | FCC |

Note:

(1) *Decreases with the logarithm of the frequency.

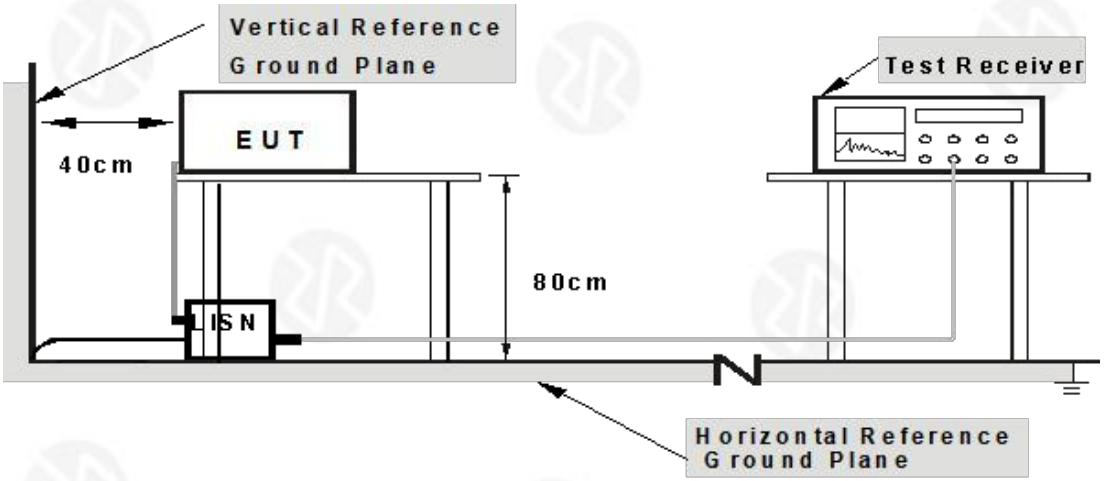
#### 4.1.2 TEST PROCEDURE

a. 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.
b. 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.
c. 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.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 4.1.3 DEVIATION FROM TEST STANDARD

No deviation

### 4.1.4 TEST SETUP



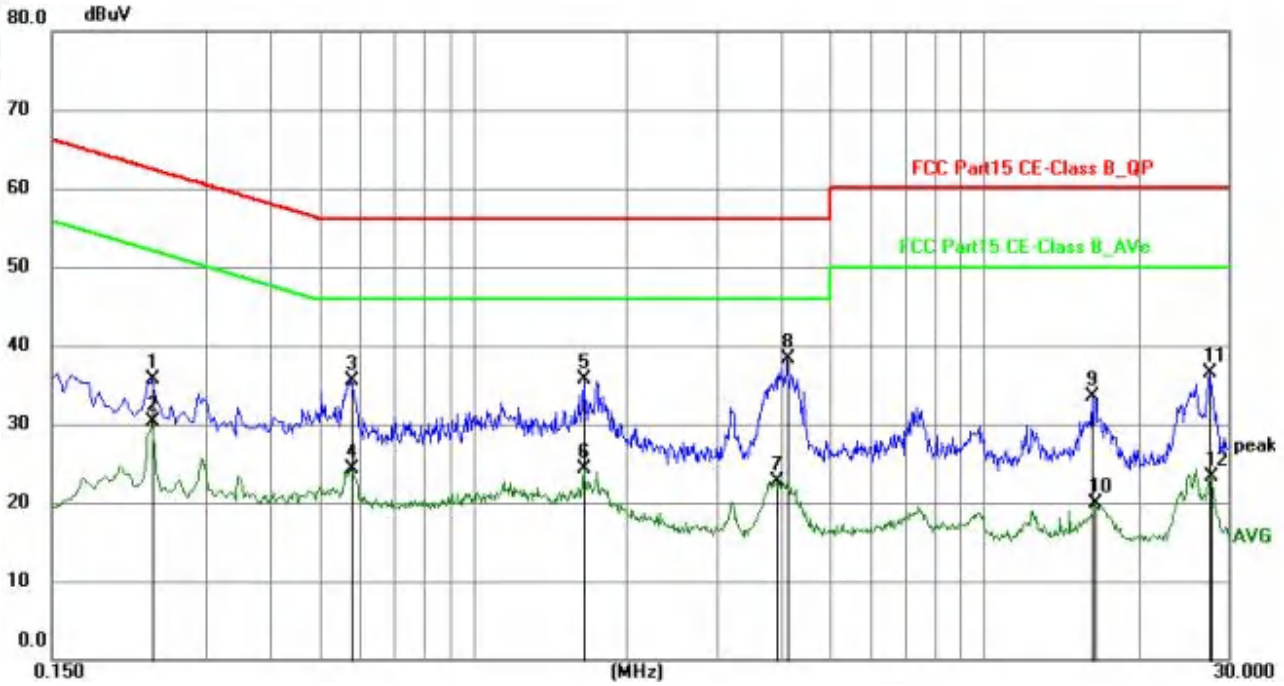

Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

### 4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to Charging during test. This operating condition was tested and used to collect the included data.

### 4.1.6 TEST RESULT

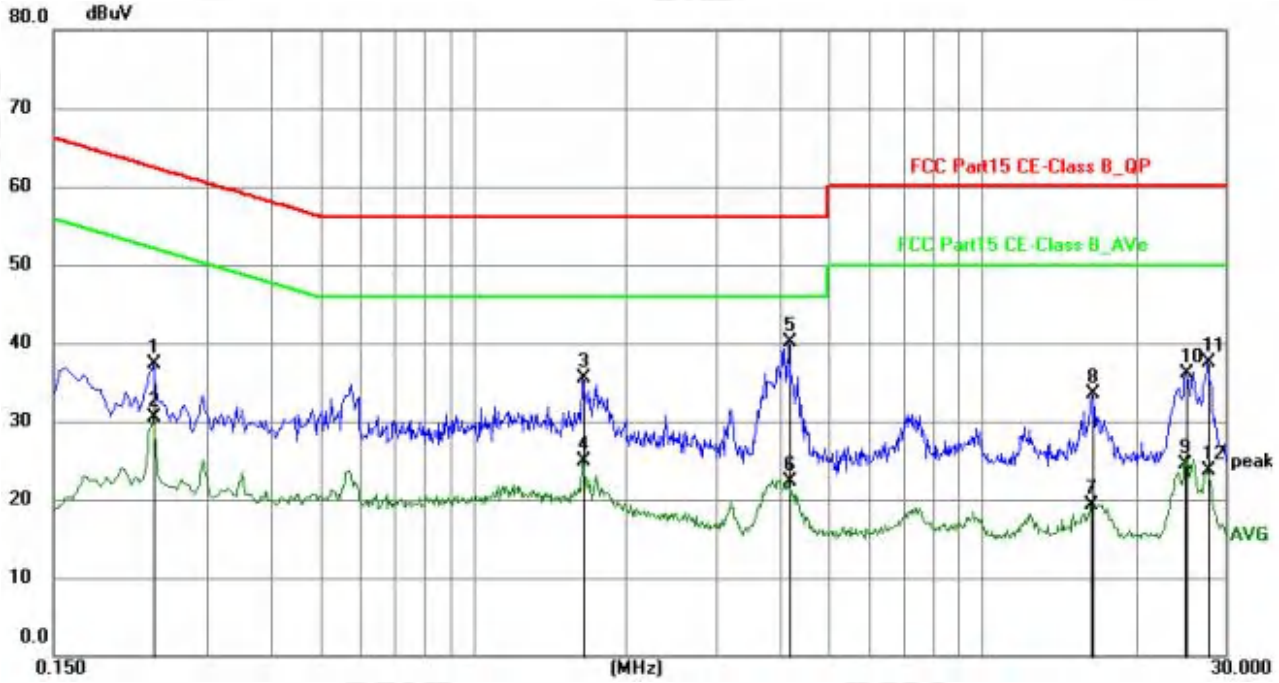
| | | | |
|---|---|---|---|
| Temperature: | 26℃ | Relative Humidity: | 54% |
| Pressure: | 101 kPa | Polarization: | L |
| Test Voltage: | AC 120V/60Hz | Test Mode: | Charging |




| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.2355 | 15.99 | 19.66 | 35.65 | 62.25 | -26.60 | QP | P | |
| 2 | 0.2355 | 10.55 | 19.66 | 30.21 | 52.25 | -22.04 | AVG | P | |
| 3 | 0.5775 | 15.87 | 19.63 | 35.50 | 56.00 | -20.50 | QP | P | |
| 4 | 0.5775 | 4.58 | 19.63 | 24.21 | 46.00 | -21.79 | AVG | P | |
| 5 | 1.6530 | 15.95 | 19.67 | 35.62 | 56.00 | -20.38 | QP | P | |
| 6 | 1.6530 | 4.62 | 19.67 | 24.29 | 46.00 | -21.71 | AVG | P | |
| 7 | 3.9255 | 2.91 | 19.71 | 22.62 | 46.00 | -23.38 | AVG | P | |
| 8 | 4.1325 | 18.50 | 19.71 | 38.21 | 56.00 | -17.79 | QP | P | |
| 9 | 16.3005 | 13.76 | 19.79 | 33.55 | 60.00 | -26.45 | QP | P | |
| 10 | 16.4760 | 0.09 | 19.79 | 19.88 | 50.00 | -30.12 | AVG | P | |
| 11 | 27.6360 | 16.82 | 19.76 | 36.58 | 60.00 | -23.42 | QP | P | |
| 12 | 27.8340 | 3.45 | 19.76 | 23.21 | 50.00 | -26.79 | AVG | P | |

Notes:
1.An initial pre-scan was performed on the line and neutral lines with peak detector.
2.Quasi - Peak and Average measurement were performed at the frequencies with maximized peak emission.
3.Final Level = Reading level + Correct Factor.
4.Correct Factor = Lisn factor+ Cable loss factor + limiter factor.
5.Margin = Measurement Level-Limit.
6.The EUT cannot be charged and operated at the same time.

| | | | |
|---|---|---|---|
| Temperature: | 26℃ | Relative Humidity: | 54% |
| Pressure: | 101 kPa | Polarization: | N |
| Test Voltage: | AC 120V/60Hz | Test Mode: | Charging |




| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.2355 | 17.75 | 19.64 | 37.39 | 62.25 | -24.86 | QP | P | |
| 2 | 0.2355 | 10.81 | 19.64 | 30.45 | 52.25 | -21.80 | AVG | P | |
| 3 | 1.6440 | 15.88 | 19.66 | 35.54 | 56.00 | -20.46 | QP | P | |
| 4 | 1.6440 | 5.15 | 19.66 | 24.81 | 46.00 | -21.19 | AVG | P | |
| 5 | 4.1685 | 20.33 | 19.69 | 40.02 | 56.00 | -15.98 | QP | P | |
| 6 | 4.1685 | 2.60 | 19.69 | 22.29 | 46.00 | -23.71 | AVG | P | |
| 7 | 16.3905 | -0.41 | 19.76 | 19.35 | 50.00 | -30.65 | AVG | P | |
| 8 | 16.3994 | 13.69 | 19.76 | 33.45 | 60.00 | -26.55 | QP | P | |
| 9 | 25.0035 | 4.80 | 19.74 | 24.54 | 50.00 | -25.46 | AVG | P | |
| 10 | 25.1565 | 16.42 | 19.74 | 36.16 | 60.00 | -23.84 | QP | P | |
| 11 | 27.7980 | 17.70 | 19.73 | 37.43 | 60.00 | -22.57 | QP | P | |
| 12 | 27.7980 | 3.96 | 19.73 | 23.69 | 50.00 | -26.31 | AVG | P | |

Notes:
1.An initial pre-scan was performed on the line and neutral lines with peak detector.
2.Quasi - Peak and Average measurement were performed at the frequencies with maximized peak emission.
3.Final Level = Reading level + Correct Factor.
4.Correct Factor = Lisn factor+ Cable loss factor + limiter factor.
5.Margin = Measurement Level-Limit.
6.The EUT cannot be charged and operated at the same time.

## 4.2 RADIATED EMISSIONS

| | | | | | |
|---|---|---|---|---|---|
| Test Requirement: | FCC Part15 C Section 15.209 | | | | |
| Test Method: | ANSI C63.10-2020+Cor 1-2023 | | | | |
| Test Frequency Range: | 9kHz to 25GHz | | | | |
| Test site: | Measurement Distance: 3m | | | | |
| Receiver setup: | Frequency | Detector | RBW | VBW | Value |
| | 9KHz-150KHz | Quasi-peak | 200Hz | 600Hz | Quasi-peak |
| | 150KHz-30MHz | Quasi-peak | 9KHz | 30KHz | Quasi-peak |
| | 30MHz-1GHz | Quasi-peak | 120KHz | 300KHz | Quasi-peak |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak |
| | | Average | 1MHz | 3MHz | Average |

### 4.2.1 RADIATED EMISSION LIMITS

| Frequencies (MHz) | Field Strength (micorvolts/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 |

LIMITS OF RADIATED EMISSION MEASUREMENT

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

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

### 4.2.2 TEST PROCEDURE

Below 1GHz test procedure as below:

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre( Above 18GHz the distance is 1 meter and table is 1.5 metre).
h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel

Note:

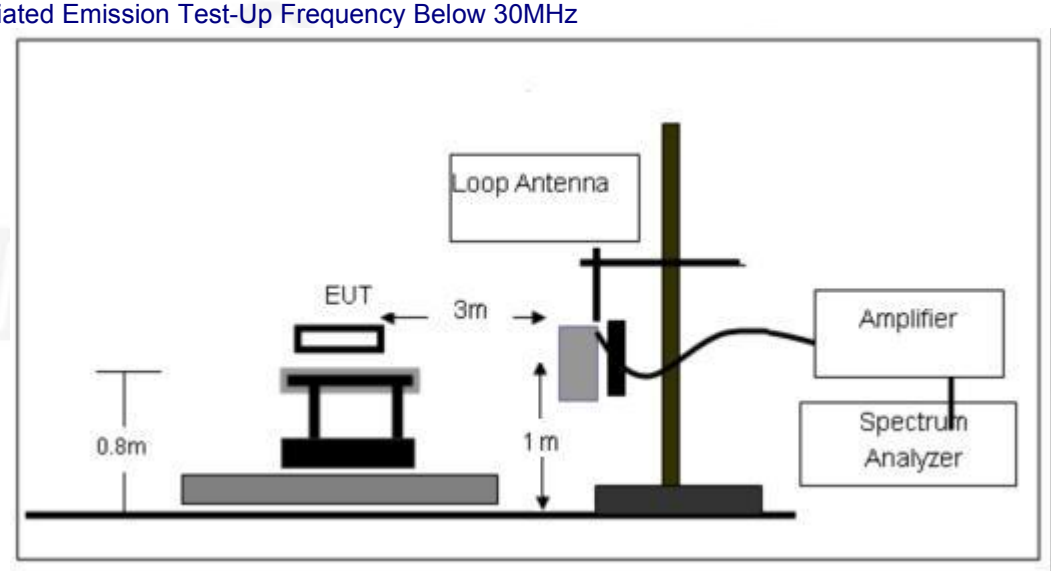
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

4.2.3 DEVIATION FROM TEST STANDARD

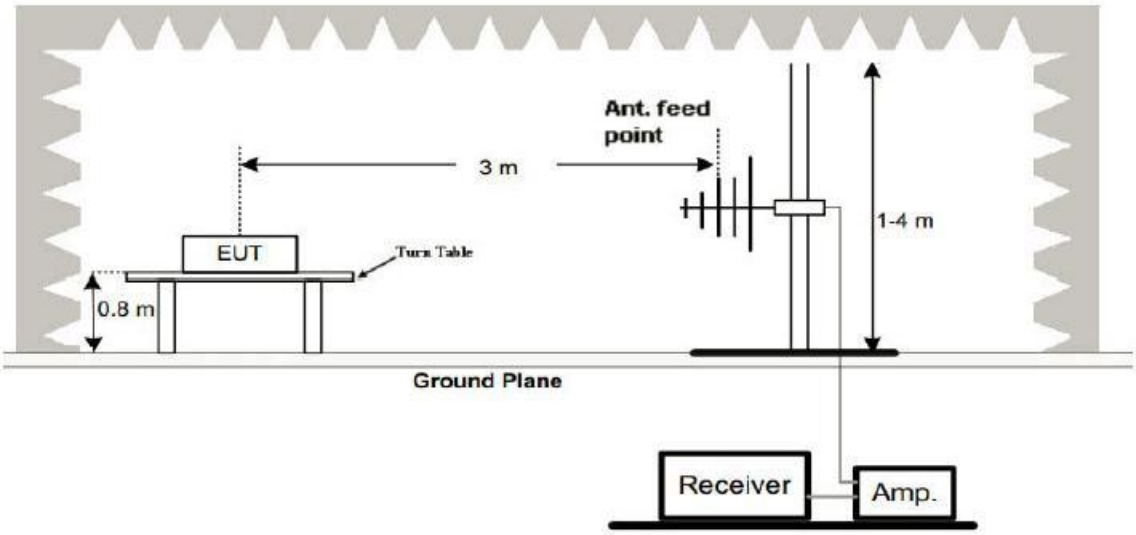
No deviation

4.2.4 TEST SETUP

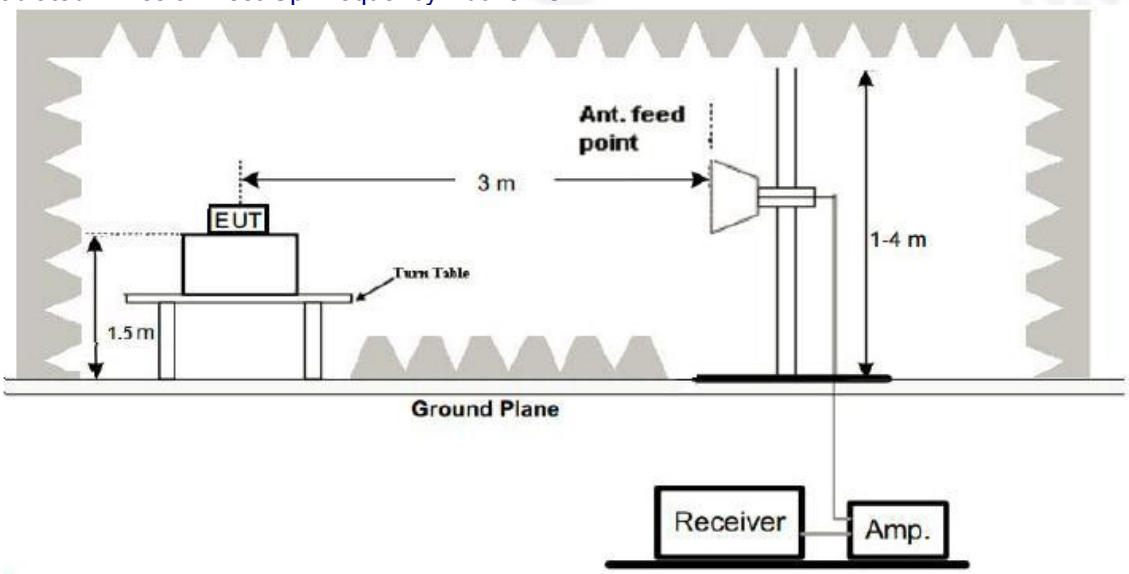
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz




(C) Radiated Emission Test-Up Frequency Above 1GHz




4.2.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

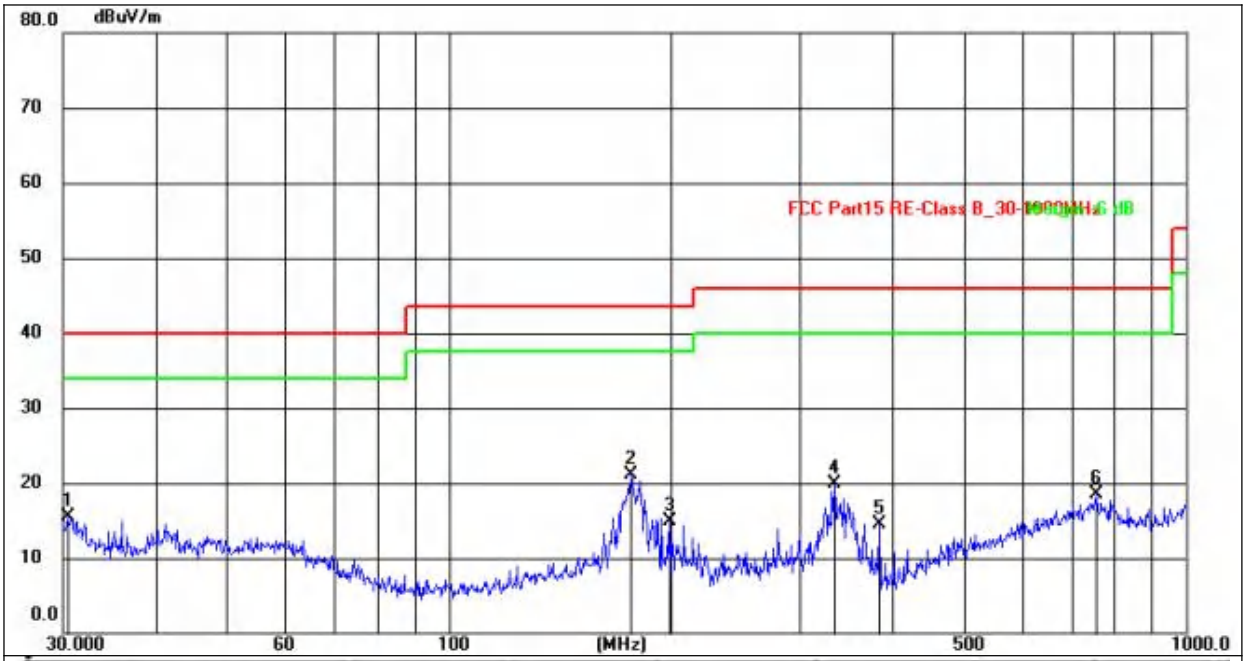
4.2.6 TEST RESULTS

a. Between 9KHz – 30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

b. Between 30MHz – 1GHz

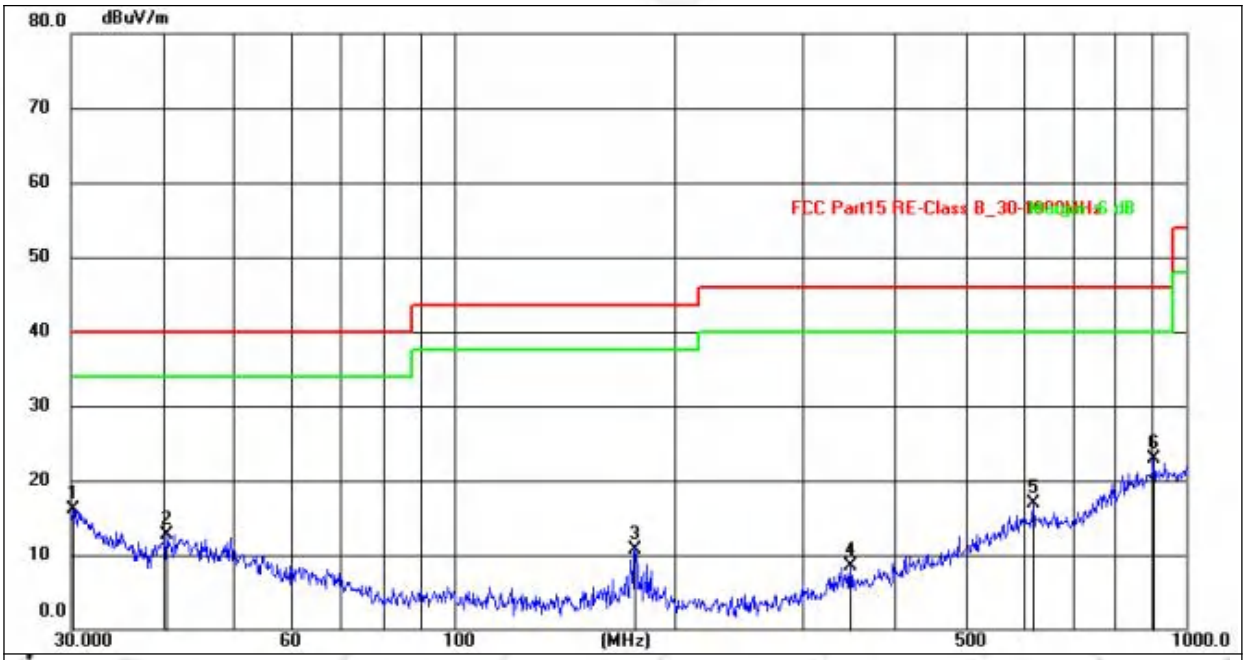
| | | | |
|---|---|---|---|
| Temperature: | 26℃ | Relative Humidity: | 54% |
| Pressure: | 101 kPa | Polarization: | Horizontal |
| Test Voltage: | DC 3.7V | Test Mode : | π/4-DQPSK 2-DH1 - 2441MHz |




| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 30.4237 | 30.89 | -15.46 | 15.43 | 40.00 | -24.57 | QP |
| 2 | 176.8878 | 41.51 | -20.39 | 21.12 | 43.50 | -22.38 | QP |
| 3 | 199.9855 | 36.83 | -21.96 | 14.87 | 43.50 | -28.63 | QP |
| 4 | 333.6867 | 41.35 | -21.50 | 19.85 | 46.00 | -26.15 | QP |
| 5 | 383.9318 | 35.86 | -21.42 | 14.44 | 46.00 | -31.56 | QP |
| 6 | 758.0407 | 31.22 | -12.80 | 18.42 | 46.00 | -27.58 | QP |

Remarks:
1.An initial pre-scan was performed on the peak detector.
2.Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3.The emission levels of other frequencies are very lower than the limit and not show in test report.
4.Final Level = Reading level + Correct Factor.
5.Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor.
6.Margin= Measurement Level-Limit.
7.The test data shows only the worst case π/4-DQPSK 2-DH1 - 2441MHz.

| | | | |
|---|---|---|---|
| Temperature: | 26℃ | Relative Humidity: | 54% |
| Pressure: | 101kPa | Polarization: | Vertical |
| Test Voltage: | DC 3.7V | Test Mode : | π/4-DQPSK 2-DH1 - 2441MHz |




| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 30.2111 | 35.66 | -19.59 | 16.07 | 40.00 | -23.93 | QP |
| 2 | 40.5591 | 30.94 | -18.14 | 12.80 | 40.00 | -27.20 | QP |
| 3 | 176.8878 | 33.36 | -22.70 | 10.66 | 43.50 | -32.84 | QP |
| 4 | 348.0274 | 29.88 | -21.44 | 8.44 | 46.00 | -37.56 | QP |
| 5 | 618.5368 | 30.20 | -13.23 | 16.97 | 46.00 | -29.03 | QP |
| 6 | 903.3093 | 30.12 | -7.16 | 22.96 | 46.00 | -23.04 | QP |

Remarks:
1.An initial pre-scan was performed on the peak detector.
2.Quasi-Peak measurement were performed at the frequencies with maximized peak emission.
3.The emission levels of other frequencies are very lower than the limit and not show in test report.
4.Final Level = Reading level + Correct Factor.
5.Correct Factor = Antenna factor+ Cable loss factor - Amplifier factor.
6.Margin= Measurement Level-Limit.
7.The test data shows only the worst case π/4-DQPSK 2-DH1 - 2441MHz.

c. 1GHz~25GHz

GFSK - 1-DH1

| Polar (H/V) | Frequency (MHz) | Meter Reading (dBuV) | Pre-amplifier (dB) | Cable Loss (dB) | Antenna Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| Low Channel:2402MHz | | | | | | | | | |
| V | 4804.00 | 53.39 | 30.55 | 5.77 | 24.66 | 53.27 | 74.00 | -20.73 | PK |
| V | 4804.00 | 43.97 | 30.55 | 5.77 | 24.66 | 43.85 | 54.00 | -10.15 | AV |
| V | 7206.00 | 53.82 | 30.33 | 6.32 | 24.55 | 54.36 | 74.00 | -19.64 | PK |
| V | 7206.00 | 43.35 | 30.33 | 6.32 | 24.55 | 43.89 | 54.00 | -10.11 | AV |
| V | 9608.00 | 53.34 | 30.85 | 7.45 | 24.69 | 54.63 | 74.00 | -19.37 | PK |
| V | 9608.00 | 43.12 | 30.85 | 7.45 | 24.69 | 44.41 | 54.00 | -9.59 | AV |
| V | 12010.00 | 54.63 | 31.02 | 8.99 | 25.57 | 58.17 | 74.00 | -15.83 | PK |
| V | 12010.00 | 43.37 | 31.02 | 8.99 | 25.57 | 46.91 | 54.00 | -7.09 | AV |
| H | 4804.00 | 50.65 | 30.55 | 5.77 | 24.66 | 50.53 | 74.00 | -23.47 | PK |
| H | 4804.00 | 43.55 | 30.55 | 5.77 | 24.66 | 43.43 | 54.00 | -10.57 | AV |
| H | 7206.00 | 51.12 | 30.33 | 6.32 | 24.55 | 51.66 | 74.00 | -22.34 | PK |
| H | 7206.00 | 43.34 | 30.33 | 6.32 | 24.55 | 43.88 | 54.00 | -10.12 | AV |
| H | 9608.00 | 51.60 | 30.85 | 7.45 | 24.69 | 52.89 | 74.00 | -21.11 | PK |
| H | 9608.00 | 43.89 | 30.85 | 7.45 | 24.69 | 45.18 | 54.00 | -8.82 | AV |
| H | 12010.00 | 52.60 | 31.02 | 8.99 | 25.57 | 56.14 | 74.00 | -17.86 | PK |
| H | 12010.00 | 43.05 | 31.02 | 8.99 | 25.57 | 46.59 | 54.00 | -7.41 | AV |
| Middle Channel:2441MHz | | | | | | | | | |
| V | 4882.00 | 52.84 | 30.55 | 5.77 | 24.66 | 52.72 | 74.00 | -21.28 | PK |
| V | 4882.00 | 43.42 | 30.55 | 5.77 | 24.66 | 43.30 | 54.00 | -10.70 | AV |
| V | 7323.00 | 54.11 | 30.33 | 6.32 | 24.55 | 54.65 | 74.00 | -19.35 | PK |
| V | 7323.00 | 43.63 | 30.33 | 6.32 | 24.55 | 44.17 | 54.00 | -9.83 | AV |
| V | 9764.00 | 53.71 | 30.85 | 7.45 | 24.69 | 55.00 | 74.00 | -19.00 | PK |
| V | 9764.00 | 43.58 | 30.85 | 7.45 | 24.69 | 44.87 | 54.00 | -9.13 | AV |
| V | 12205.00 | 52.27 | 31.02 | 8.99 | 25.57 | 55.81 | 74.00 | -18.19 | PK |
| V | 12205.00 | 43.37 | 31.02 | 8.99 | 25.57 | 46.91 | 54.00 | -7.09 | AV |
| H | 4882.00 | 54.63 | 30.55 | 5.77 | 24.66 | 54.51 | 74.00 | -19.49 | PK |
| H | 4882.00 | 43.94 | 30.55 | 5.77 | 24.66 | 43.82 | 54.00 | -10.18 | AV |
| H | 7323.00 | 50.51 | 30.33 | 6.32 | 24.55 | 51.05 | 74.00 | -22.95 | PK |
| H | 7323.00 | 43.37 | 30.33 | 6.32 | 24.55 | 43.91 | 54.00 | -10.09 | AV |
| H | 9764.00 | 52.58 | 30.85 | 7.45 | 24.69 | 53.87 | 74.00 | -20.13 | PK |
| H | 9764.00 | 43.65 | 30.85 | 7.45 | 24.69 | 44.94 | 54.00 | -9.06 | AV |
| H | 12205.00 | 54.58 | 31.02 | 8.99 | 25.57 | 58.12 | 74.00 | -15.88 | PK |
| H | 12205.00 | 43.32 | 31.02 | 8.99 | 25.57 | 46.86 | 54.00 | -7.14 | AV |
| High Channel:2480MHz | | | | | | | | | |
| V | 4960.00 | 54.72 | 30.55 | 5.77 | 24.66 | 54.60 | 74.00 | -19.40 | PK |
| V | 4960.00 | 43.24 | 30.55 | 5.77 | 24.66 | 43.12 | 54.00 | -10.88 | AV |
| V | 7440.00 | 54.07 | 30.33 | 6.32 | 24.55 | 54.61 | 74.00 | -19.39 | PK |
| V | 7440.00 | 43.51 | 30.33 | 6.32 | 24.55 | 44.05 | 54.00 | -9.95 | AV |
| V | 9920.00 | 54.14 | 30.85 | 7.45 | 24.69 | 55.43 | 74.00 | -18.57 | PK |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| V | 9920.00 | 43.79 | 30.85 | 7.45 | 24.69 | 45.08 | 54.00 | -8.92 | AV |
| V | 12400.00 | 54.38 | 31.02 | 8.99 | 25.57 | 57.92 | 74.00 | -16.08 | PK |
| V | 12400.00 | 43.11 | 31.02 | 8.99 | 25.57 | 46.65 | 54.00 | -7.35 | AV |
| H | 4960.00 | 54.33 | 30.55 | 5.77 | 24.66 | 54.21 | 74.00 | -19.79 | PK |
| H | 4960.00 | 43.48 | 30.55 | 5.77 | 24.66 | 43.36 | 54.00 | -10.64 | AV |
| H | 7440.00 | 52.94 | 30.33 | 6.32 | 24.55 | 53.48 | 74.00 | -20.52 | PK |
| H | 7440.00 | 43.76 | 30.33 | 6.32 | 24.55 | 44.30 | 54.00 | -9.70 | AV |
| H | 9920.00 | 54.36 | 30.85 | 7.45 | 24.69 | 55.65 | 74.00 | -18.35 | PK |
| H | 9920.00 | 43.50 | 30.85 | 7.45 | 24.69 | 44.79 | 54.00 | -9.21 | AV |
| H | 12400.00 | 52.50 | 31.02 | 8.99 | 25.57 | 56.04 | 74.00 | -17.96 | PK |
| H | 12400.00 | 43.16 | 31.02 | 8.99 | 25.57 | 46.70 | 54.00 | -7.30 | AV |

Remark:
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
   Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

π/4-DQPSK - 2-DH1

| Polar (H/V) | Frequency (MHz) | Meter Reading (dBuV) | Pre-amplifier (dB) | Cable Loss (dB) | Antenna Factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Detector Type |
|---|---|---|---|---|---|---|---|---|---|
| Low Channel:2402MHz | | | | | | | | | |
| V | 4804.00 | 52.66 | 30.55 | 5.77 | 24.66 | 52.54 | 74.00 | -21.46 | PK |
| V | 4804.00 | 43.27 | 30.55 | 5.77 | 24.66 | 43.15 | 54.00 | -10.85 | AV |
| V | 7206.00 | 51.13 | 30.33 | 6.32 | 24.55 | 51.67 | 74.00 | -22.33 | PK |
| V | 7206.00 | 43.71 | 30.33 | 6.32 | 24.55 | 44.25 | 54.00 | -9.75 | AV |
| V | 9608.00 | 51.47 | 30.85 | 7.45 | 24.69 | 52.76 | 74.00 | -21.24 | PK |
| V | 9608.00 | 43.67 | 30.85 | 7.45 | 24.69 | 44.96 | 54.00 | -9.04 | AV |
| V | 12010.00 | 53.95 | 31.02 | 8.99 | 25.57 | 57.49 | 74.00 | -16.51 | PK |
| V | 12010.00 | 43.03 | 31.02 | 8.99 | 25.57 | 46.57 | 54.00 | -7.43 | AV |
| H | 4804.00 | 51.24 | 30.55 | 5.77 | 24.66 | 51.12 | 74.00 | -22.88 | PK |
| H | 4804.00 | 43.49 | 30.55 | 5.77 | 24.66 | 43.37 | 54.00 | -10.63 | AV |
| H | 7206.00 | 51.30 | 30.33 | 6.32 | 24.55 | 51.84 | 74.00 | -22.16 | PK |
| H | 7206.00 | 43.59 | 30.33 | 6.32 | 24.55 | 44.13 | 54.00 | -9.87 | AV |
| H | 9608.00 | 52.66 | 30.85 | 7.45 | 24.69 | 53.95 | 74.00 | -20.05 | PK |
| H | 9608.00 | 43.89 | 30.85 | 7.45 | 24.69 | 45.18 | 54.00 | -8.82 | AV |
| H | 12010.00 | 53.11 | 31.02 | 8.99 | 25.57 | 56.65 | 74.00 | -17.35 | PK |
| H | 12010.00 | 43.85 | 31.02 | 8.99 | 25.57 | 47.39 | 54.00 | -6.61 | AV |
| Middle Channel:2441MHz | | | | | | | | | |
| V | 4882.00 | 50.94 | 30.55 | 5.77 | 24.66 | 50.82 | 74.00 | -23.18 | PK |
| V | 4882.00 | 43.15 | 30.55 | 5.77 | 24.66 | 43.03 | 54.00 | -10.97 | AV |
| V | 7323.00 | 53.80 | 30.33 | 6.32 | 24.55 | 54.34 | 74.00 | -19.66 | PK |
| V | 7323.00 | 43.31 | 30.33 | 6.32 | 24.55 | 43.85 | 54.00 | -10.15 | AV |
| V | 9764.00 | 54.36 | 30.85 | 7.45 | 24.69 | 55.65 | 74.00 | -18.35 | PK |
| V | 9764.00 | 43.62 | 30.85 | 7.45 | 24.69 | 44.91 | 54.00 | -9.09 | AV |
| V | 12205.00 | 52.25 | 31.02 | 8.99 | 25.57 | 55.79 | 74.00 | -18.21 | PK |
| V | 12205.00 | 43.49 | 31.02 | 8.99 | 25.57 | 47.03 | 54.00 | -6.97 | AV |
| H | 4882.00 | 54.82 | 30.55 | 5.77 | 24.66 | 54.70 | 74.00 | -19.30 | PK |
| H | 4882.00 | 43.66 | 30.55 | 5.77 | 24.66 | 43.54 | 54.00 | -10.46 | AV |
| H | 7323.00 | 51.14 | 30.33 | 6.32 | 24.55 | 51.68 | 74.00 | -22.32 | PK |
| H | 7323.00 | 43.22 | 30.33 | 6.32 | 24.55 | 43.76 | 54.00 | -10.24 | AV |
| H | 9764.00 | 50.38 | 30.85 | 7.45 | 24.69 | 51.67 | 74.00 | -22.33 | PK |
| H | 9764.00 | 43.44 | 30.85 | 7.45 | 24.69 | 44.73 | 54.00 | -9.27 | AV |
| H | 12205.00 | 53.76 | 31.02 | 8.99 | 25.57 | 57.30 | 74.00 | -16.70 | PK |
| H | 12205.00 | 43.37 | 31.02 | 8.99 | 25.57 | 46.91 | 54.00 | -7.09 | AV |
| High Channel:2480MHz | | | | | | | | | |
| V | 4960.00 | 52.31 | 30.55 | 5.77 | 24.66 | 52.19 | 74.00 | -21.81 | PK |
| V | 4960.00 | 43.50 | 30.55 | 5.77 | 24.66 | 43.38 | 54.00 | -10.62 | AV |
| V | 7440.00 | 52.52 | 30.33 | 6.32 | 24.55 | 53.06 | 74.00 | -20.94 | PK |
| V | 7440.00 | 43.21 | 30.33 | 6.32 | 24.55 | 43.75 | 54.00 | -10.25 | AV |
| V | 9920.00 | 54.08 | 30.85 | 7.45 | 24.69 | 55.37 | 74.00 | -18.63 | PK |
| V | 9920.00 | 43.48 | 30.85 | 7.45 | 24.69 | 44.77 | 54.00 | -9.23 | AV |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| V | 12400.00 | 51.96 | 31.02 | 8.99 | 25.57 | 55.50 | 74.00 | -18.50 | PK |
| V | 12400.00 | 43.37 | 31.02 | 8.99 | 25.57 | 46.91 | 54.00 | -7.09 | AV |
| H | 4960.00 | 53.87 | 30.55 | 5.77 | 24.66 | 53.75 | 74.00 | -20.25 | PK |
| H | 4960.00 | 43.47 | 30.55 | 5.77 | 24.66 | 43.35 | 54.00 | -10.65 | AV |
| H | 7440.00 | 53.34 | 30.33 | 6.32 | 24.55 | 53.88 | 74.00 | -20.12 | PK |
| H | 7440.00 | 43.20 | 30.33 | 6.32 | 24.55 | 43.74 | 54.00 | -10.26 | AV |
| H | 9920.00 | 51.12 | 30.85 | 7.45 | 24.69 | 52.41 | 74.00 | -21.59 | PK |
| H | 9920.00 | 43.49 | 30.85 | 7.45 | 24.69 | 44.78 | 54.00 | -9.22 | AV |
| H | 12400.00 | 54.28 | 31.02 | 8.99 | 25.57 | 57.82 | 74.00 | -16.18 | PK |
| H | 12400.00 | 43.51 | 31.02 | 8.99 | 25.57 | 47.05 | 54.00 | -6.95 | AV |

Remark:
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
   Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

## 5. RADIATED BAND EMISSION MEASUREMENT

### 5.1 TEST REQUIREMENT

| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.209 and 15.205 and 15.247(d) |
| Test Method: | ANSI C63.10-2020+Cor 1-2023 |
| Test Frequency Range: | All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed. |
| Test site: | Measurement Distance: 3m |
| Receiver setup: | |

| Frequency | Detector | RBW | VBW | Value |
|---|---|---|---|---|
| Above 1GHz | Peak | 1MHz | 3MHz | Peak |
| | Average | 1MHz | 3MHz | Average |

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

| Spectrum Parameter | Setting |
|---|---|
| Attenuation | Auto |
| Start Frequency | 2310MHz |
| Stop Frequency | 2500MHz |
| RB / VB (emission in restricted band) | 1 MHz / 3 MHz for Peak, 1 MHz / 3MHz for Average |

### 5.2 TEST PROCEDURE

Above 1GHz test procedure as below:

a. 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel,the Highest channel

Note:

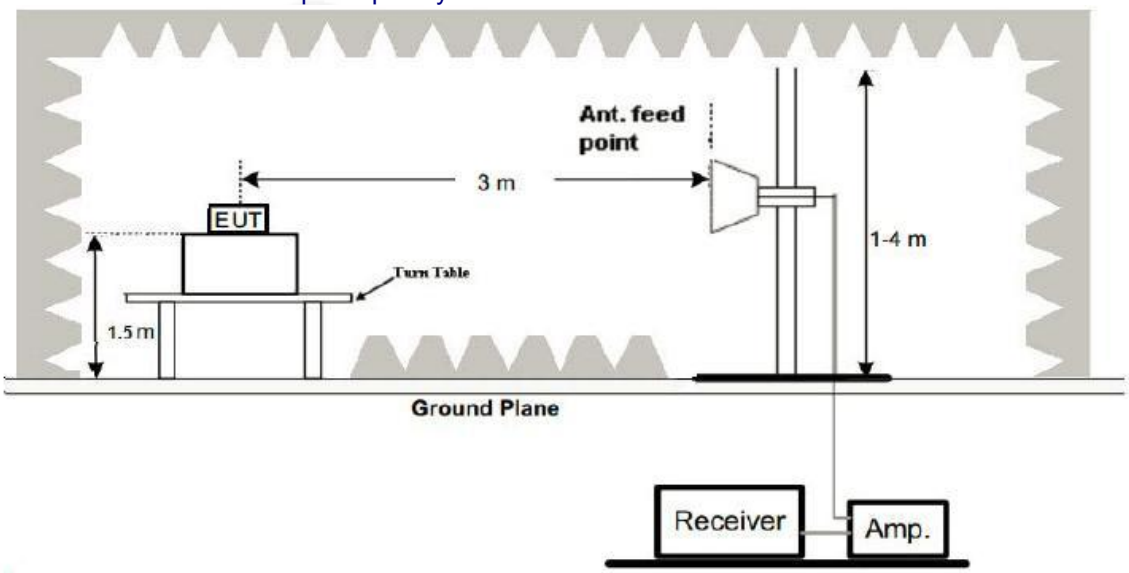
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

## 5.3 DEVIATION FROM TEST STANDARD

No deviation

## 5.4 TEST SETUP

Radiated Emission Test-Up Frequency Above 1GHz




## 5.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EU been programmed to continuously transmit during test. This operating condition was tested and used collect the included data.

5.6 TEST RESULT

| | Polar (H/V) | Frequency (MHz) | Meter Reading (dBuV) | Pre-amplifier (dB) | Cable Loss (dB) | Antenna Factor (dB/m) | Emission level (dBuV/m) | Limit (dBu V/m) | Margin (dB) | Detector Type | Result |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GFSK 1-DH1 | Low Channel: 2402MHz | | | | | | | | | | |
| | H | 2310.00 | 53.57 | 30.22 | 4.85 | 23.98 | 52.18 | 74.00 | -21.82 | PK | PASS |
| | H | 2310.00 | 44.80 | 30.22 | 4.85 | 23.98 | 43.41 | 54.00 | -10.59 | AV | PASS |
| | H | 2350.00 | 53.91 | 30.22 | 4.85 | 23.98 | 52.52 | 74.00 | -21.48 | PK | PASS |
| | H | 2350.00 | 44.87 | 30.22 | 4.85 | 23.98 | 43.48 | 54.00 | -10.52 | AV | PASS |
| | H | 2390.00 | 53.58 | 30.22 | 4.85 | 23.98 | 52.19 | 74.00 | -21.81 | PK | PASS |
| | H | 2390.00 | 44.25 | 30.22 | 4.85 | 23.98 | 42.86 | 54.00 | -11.14 | AV | PASS |
| | V | 2310.00 | 53.30 | 30.22 | 4.85 | 23.98 | 51.91 | 74.00 | -22.09 | PK | PASS |
| | V | 2310.00 | 44.02 | 30.22 | 4.85 | 23.98 | 42.63 | 54.00 | -11.37 | AV | PASS |
| | V | 2350.00 | 54.20 | 30.22 | 4.85 | 23.98 | 52.81 | 74.00 | -21.19 | PK | PASS |
| | V | 2350.00 | 44.58 | 30.22 | 4.85 | 23.98 | 43.19 | 54.00 | -10.81 | AV | PASS |
| | V | 2390.00 | 53.80 | 30.22 | 4.85 | 23.98 | 52.41 | 74.00 | -21.59 | PK | PASS |
| | V | 2390.00 | 44.53 | 30.22 | 4.85 | 23.98 | 43.14 | 54.00 | -10.86 | AV | PASS |
| | High Channel: 2480MHz | | | | | | | | | | |
| | H | 2483.50 | 53.95 | 30.22 | 4.85 | 23.98 | 52.56 | 74.00 | -21.44 | PK | PASS |
| | H | 2483.50 | 44.54 | 30.22 | 4.85 | 23.98 | 43.15 | 54.00 | -10.85 | AV | PASS |
| | H | 2490.00 | 53.88 | 30.22 | 4.85 | 23.98 | 52.49 | 74.00 | -21.51 | PK | PASS |
| | H | 2490.00 | 44.51 | 30.22 | 4.85 | 23.98 | 43.12 | 54.00 | -10.88 | AV | PASS |
| | H | 2500.00 | 53.60 | 30.22 | 4.85 | 23.98 | 52.21 | 74.00 | -21.79 | PK | PASS |
| | H | 2500.00 | 44.81 | 30.22 | 4.85 | 23.98 | 43.42 | 54.00 | -10.58 | AV | PASS |
| | V | 2483.50 | 53.08 | 30.22 | 4.85 | 23.98 | 51.69 | 74.00 | -22.31 | PK | PASS |
| | V | 2483.50 | 44.65 | 30.22 | 4.85 | 23.98 | 43.26 | 54.00 | -10.74 | AV | PASS |
| | V | 2490.00 | 53.31 | 30.22 | 4.85 | 23.98 | 51.92 | 74.00 | -22.08 | PK | PASS |
| | V | 2490.00 | 44.76 | 30.22 | 4.85 | 23.98 | 43.37 | 54.00 | -10.63 | AV | PASS |
| | V | 2500.00 | 53.37 | 30.22 | 4.85 | 23.98 | 51.98 | 74.00 | -22.02 | PK | PASS |
| | V | 2500.00 | 44.47 | 30.22 | 4.85 | 23.98 | 43.08 | 54.00 | -10.92 | AV | PASS |

Remark:
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit

| | Polar (H/V) | Frequency (MHz) | Meter Reading (dBuV) | Pre-amplifier (dB) | Cable Loss (dB) | Antenna Factor (dB/m) | Emission level (dBuV/m) | Limit (dBu V/m) | Margin (dB) | Detect or Type | Result |
|---|---|---|---|---|---|---|---|---|---|---|---|
| π/4-DQ PSK 2-DH1 | Low Channel: 2402MHz | | | | | | | | | | |
| | H | 2310.00 | 53.88 | 30.22 | 4.85 | 23.98 | 52.49 | 74.00 | 53.88 | PK | PASS |
| | H | 2310.00 | 44.54 | 30.22 | 4.85 | 23.98 | 43.15 | 54.00 | 44.54 | AV | PASS |
| | H | 2350.00 | 54.83 | 30.22 | 4.85 | 23.98 | 53.44 | 74.00 | 54.83 | PK | PASS |
| | H | 2350.00 | 44.13 | 30.22 | 4.85 | 23.98 | 42.74 | 54.00 | 44.13 | AV | PASS |
| | H | 2390.00 | 53.49 | 30.22 | 4.85 | 23.98 | 52.10 | 74.00 | 53.49 | PK | PASS |
| | H | 2390.00 | 44.63 | 30.22 | 4.85 | 23.98 | 43.24 | 54.00 | 44.63 | AV | PASS |
| | V | 2310.00 | 54.70 | 30.22 | 4.85 | 23.98 | 53.31 | 74.00 | 54.70 | PK | PASS |
| | V | 2310.00 | 44.65 | 30.22 | 4.85 | 23.98 | 43.26 | 54.00 | 44.65 | AV | PASS |
| | V | 2350.00 | 54.70 | 30.22 | 4.85 | 23.98 | 53.31 | 74.00 | 54.70 | PK | PASS |
| | V | 2350.00 | 44.24 | 30.22 | 4.85 | 23.98 | 42.85 | 54.00 | 44.24 | AV | PASS |
| | V | 2390.00 | 53.07 | 30.22 | 4.85 | 23.98 | 51.68 | 74.00 | 53.07 | PK | PASS |
| | V | 2390.00 | 44.91 | 30.22 | 4.85 | 23.98 | 43.52 | 54.00 | 44.91 | AV | PASS |
| | High Channel: 2480MHz | | | | | | | | | | |
| | H | 2483.50 | 53.80 | 30.22 | 4.85 | 23.98 | 52.41 | 74.00 | -21.59 | PK | PASS |
| | H | 2483.50 | 44.46 | 30.22 | 4.85 | 23.98 | 43.07 | 54.00 | -10.93 | AV | PASS |
| | H | 2490.00 | 53.91 | 30.22 | 4.85 | 23.98 | 52.52 | 74.00 | -21.48 | PK | PASS |
| | H | 2490.00 | 44.67 | 30.22 | 4.85 | 23.98 | 43.28 | 54.00 | -10.72 | AV | PASS |
| | H | 2500.00 | 54.61 | 30.22 | 4.85 | 23.98 | 53.22 | 74.00 | -20.78 | PK | PASS |
| | H | 2500.00 | 44.34 | 30.22 | 4.85 | 23.98 | 42.95 | 54.00 | -11.05 | AV | PASS |
| | V | 2483.50 | 54.05 | 30.22 | 4.85 | 23.98 | 52.66 | 74.00 | -21.34 | PK | PASS |
| | V | 2483.50 | 44.49 | 30.22 | 4.85 | 23.98 | 43.10 | 54.00 | -10.90 | AV | PASS |
| | V | 2490.00 | 54.40 | 30.22 | 4.85 | 23.98 | 53.01 | 74.00 | -20.99 | PK | PASS |
| | V | 2490.00 | 44.23 | 30.22 | 4.85 | 23.98 | 42.84 | 54.00 | -11.16 | AV | PASS |
| | V | 2500.00 | 54.41 | 30.22 | 4.85 | 23.98 | 53.02 | 74.00 | -20.98 | PK | PASS |
| | V | 2500.00 | 44.73 | 30.22 | 4.85 | 23.98 | 43.34 | 54.00 | -10.66 | AV | PASS |

Remark:
1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit

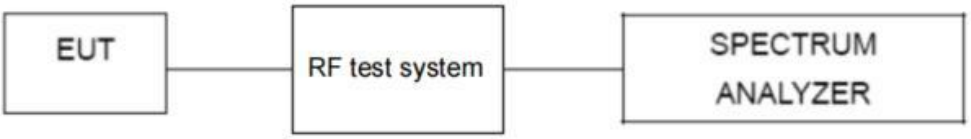
## 6. CONDUCTED BAND EDGE AND SPURIOUS EMISSION

| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.247 (d) |
| Test Method: | KDB558074 D0115.247 Meas Guidancev05r02 |

### 6.1 LIMIT

Typical regulatory requirements specify that in any 100 khz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions89:
The maximum peak conducted output power procedure was used to determine compliance as described in 11.9.1, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).

### 6.2 TEST SETUP




### 6.3 TEST PROCEDURE

A. Reference level measurement, establish a reference level by using the following procedure:

a) Set instrument center frequency to FHSS channel center frequency.
b) Set the span to ≥ 1.5 times the 20dB bandwidth.
c) Set the RBW = 100 kHz.
d) Set the VBW ≥ [3 × RBW].
e) Detector = peak.
f) Sweep time = auto couple.
g) Trace mode = max hold.
h) Allow trace to fully stabilize.
i) Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

B. Emission level measurement, establish an emission level by using the following procedure:

a) Set the center frequency and span to encompass frequency range to be measured.
b) Set the RBW = 100 kHz.
c) Set the VBW ≥ [3 × RBW].
d) Detector = peak.
e) Sweep time = auto couple.
f) Trace mode = max hold.
g) Allow trace to fully stabilize.
h) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

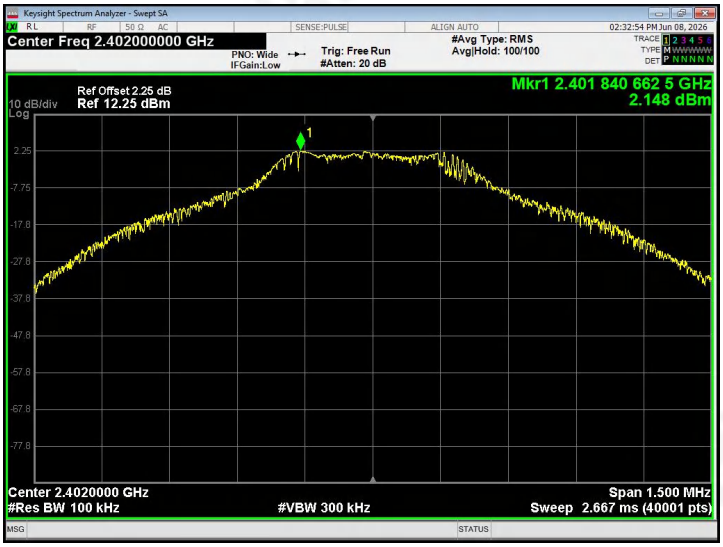
### 6.4 DEVIATION FROM STANDARD

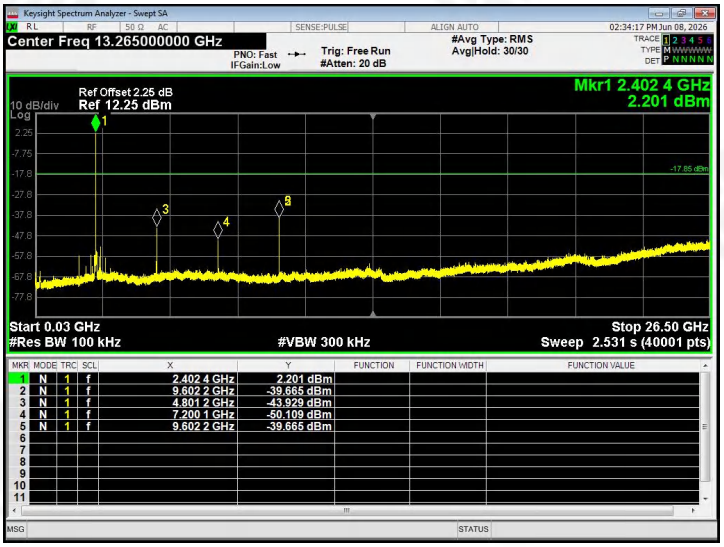
No deviation.

## 6.5 TEST RESULT

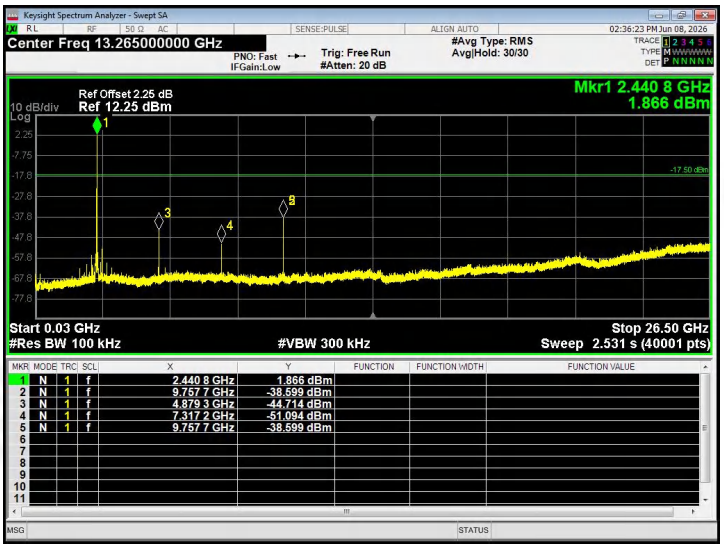
### GFSK - 1-DH1

Lowest channel

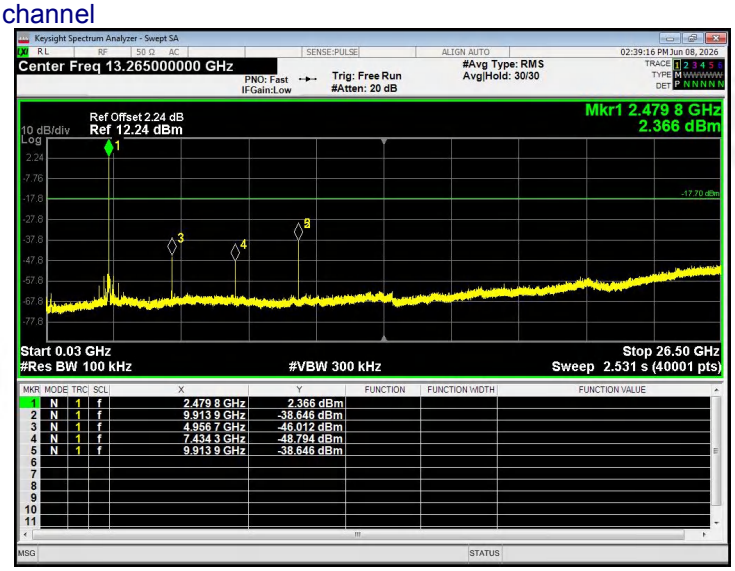



Middle channel



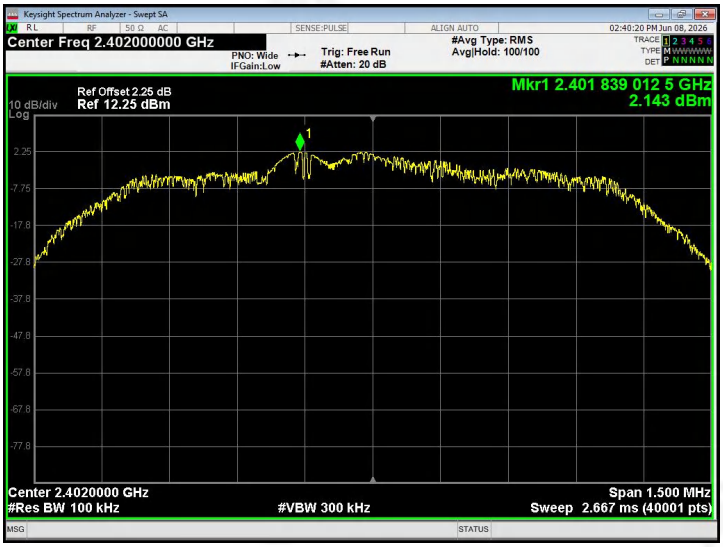

Highest channel

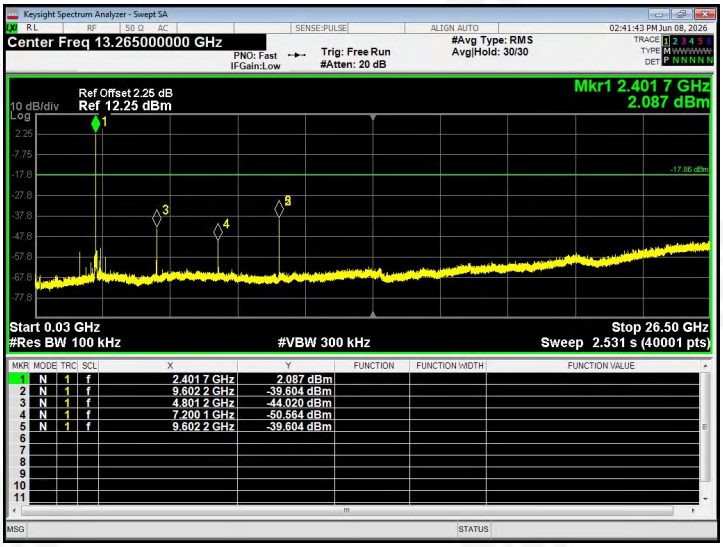



30MHz~26.5GHz

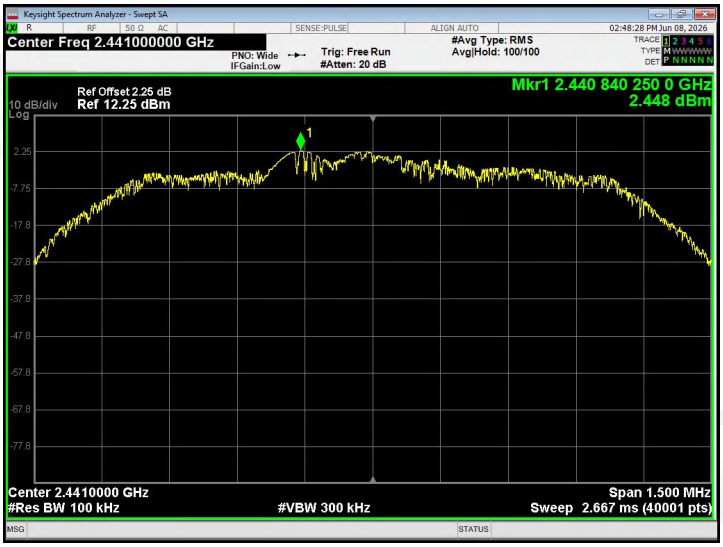
## π/4-DQPSK - 2-DH1

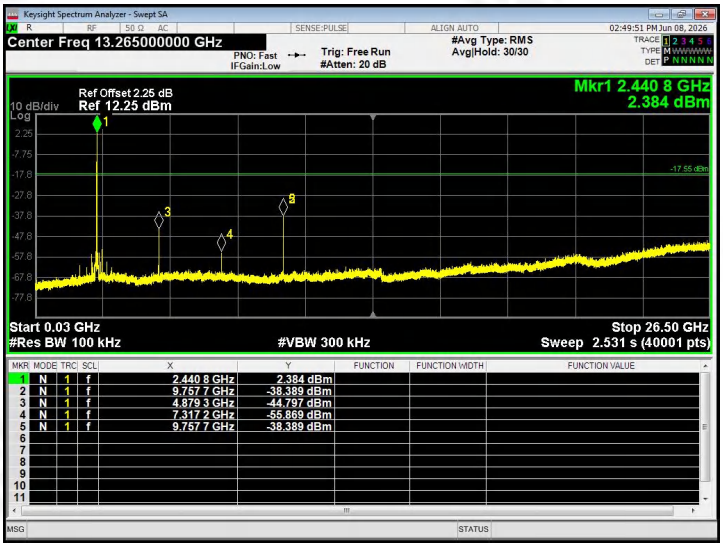
### Lowest channel



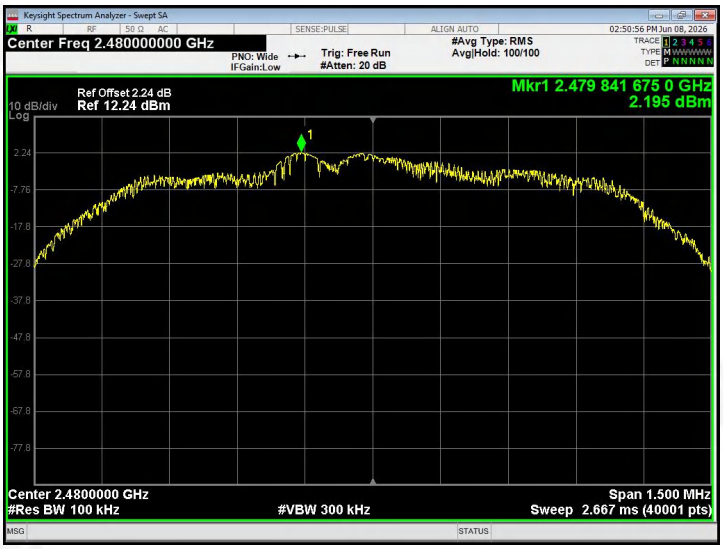



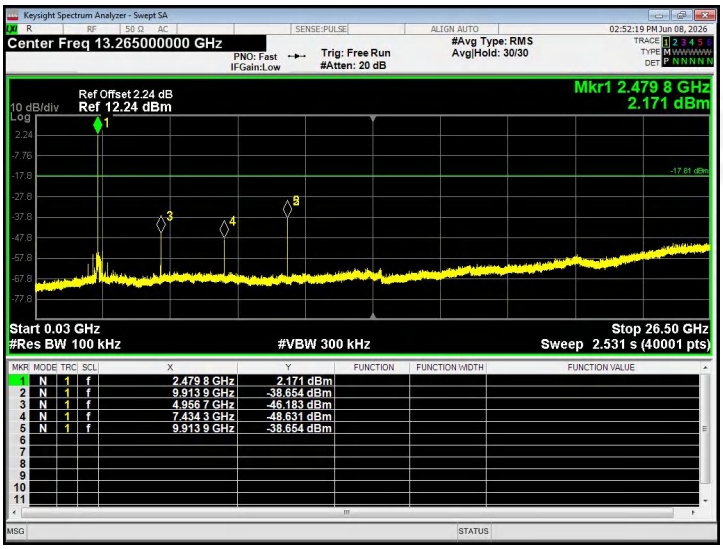

### Middle channel




### Highest channel

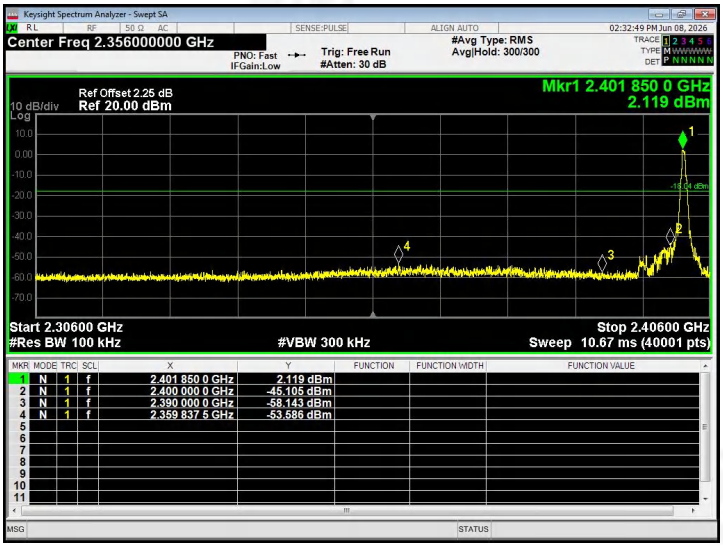


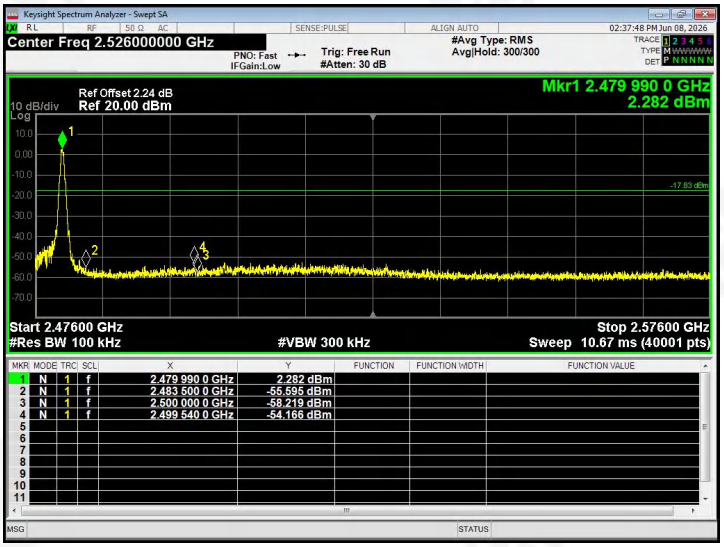

30MHz~26.5GHz

## GFSK - 1-DH1

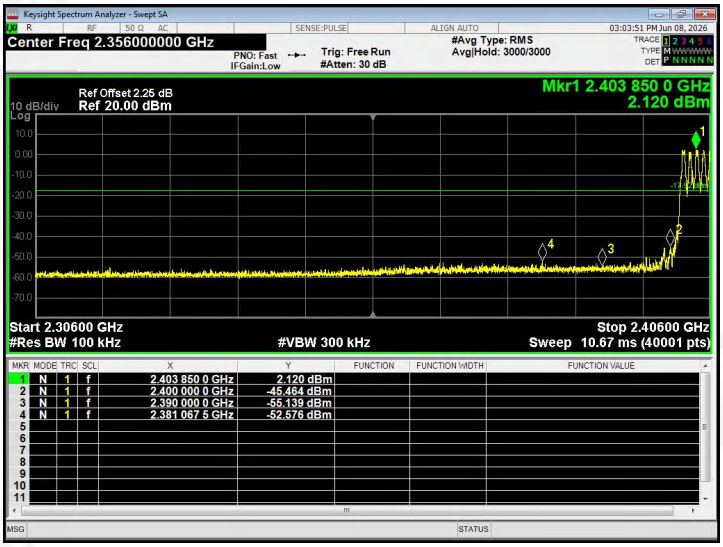
### No-hopping Band edge-left side



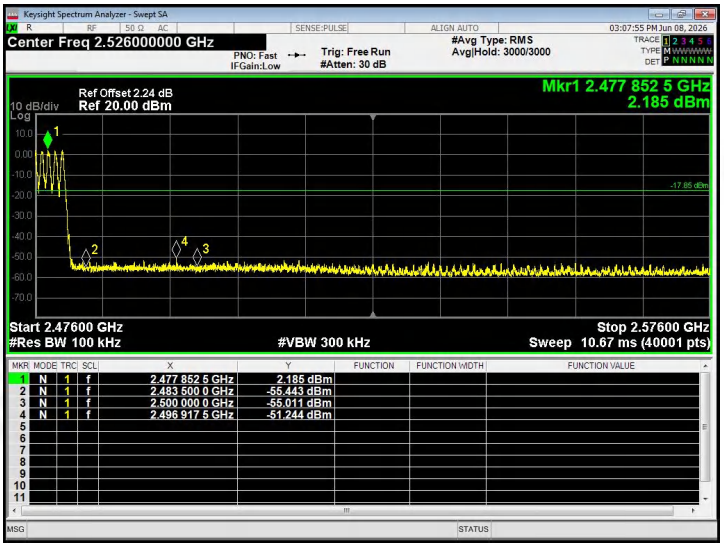

### No-hopping Band edge-right side




### Hopping Band edge-left side

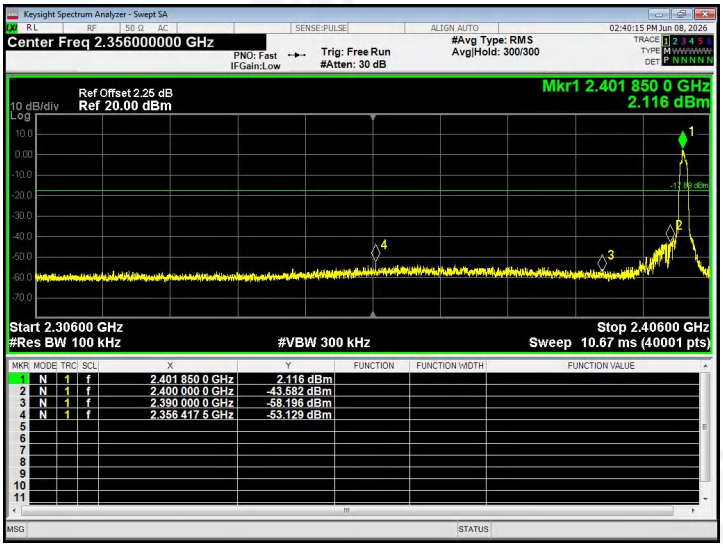



### Hopping Band edge-right side

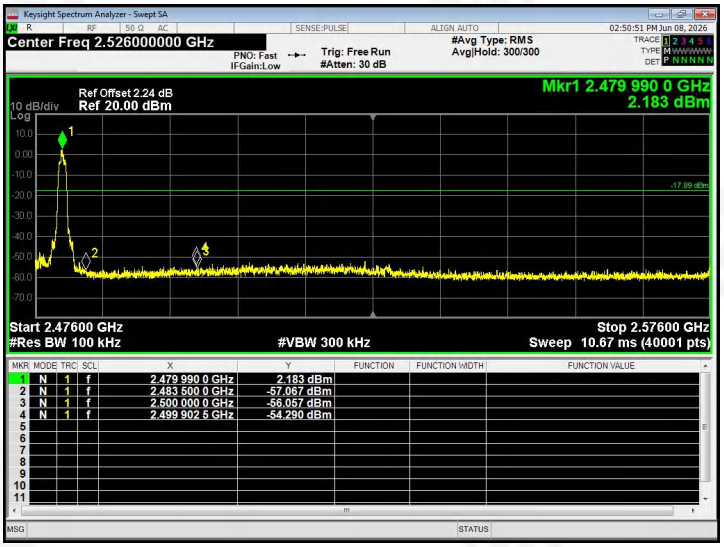


## π/4-DQPSK - 2-DH1

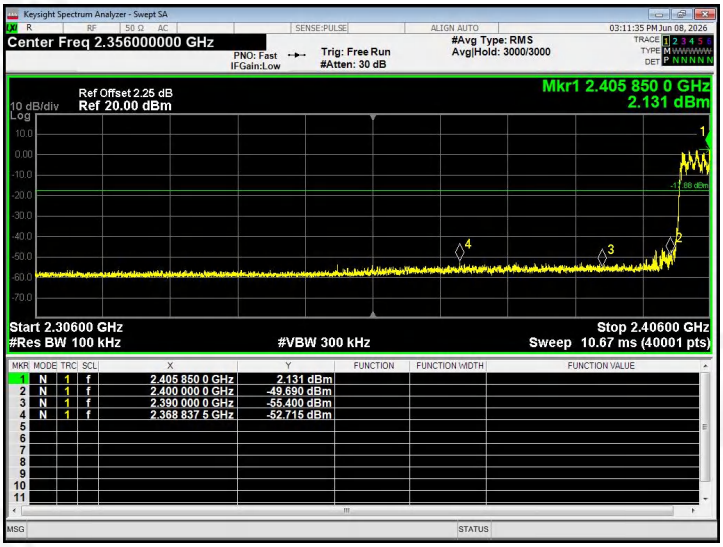
### No-hopping Band edge-left side



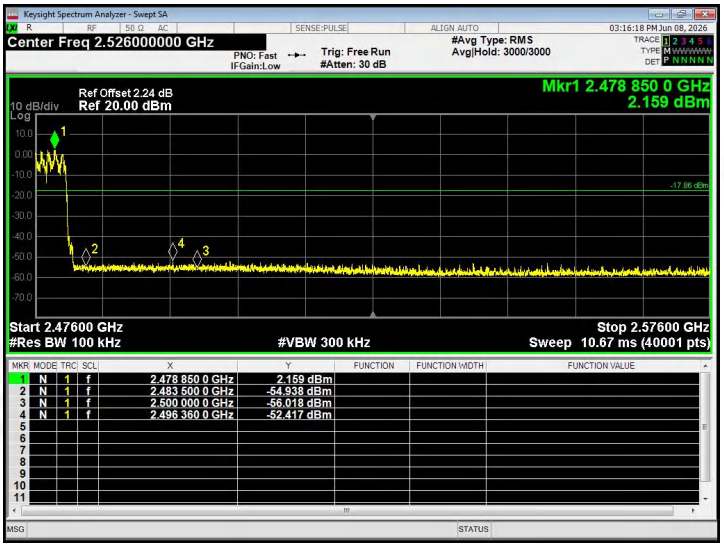

### No-hopping Band edge-right side




### Hopping Band edge-left side



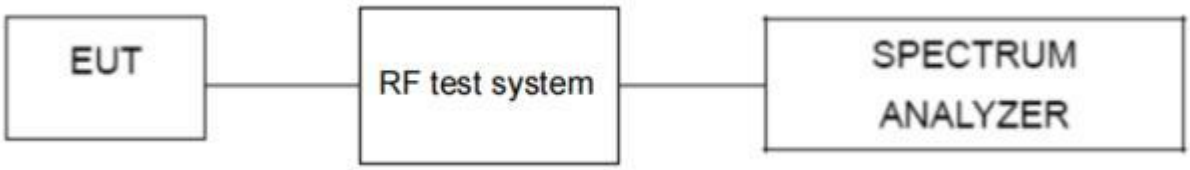

### Hopping Band edge-right side



## 7. 20DB OCCUPIED BANDWIDTH

| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.247 (a)(1) |
| Test Method: | ANSI C63.10-2020+Cor 1-2023 |

### 7.1 TEST SETUP




### 7.2 LIMIT

N/A

### 7.3 TEST PROCEDURE

1. Set RBW = 30 kHz.
2. Set the video bandwidth (VBW) ≥ 3 x RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

### 7.4 DEVIATION FROM STANDARD

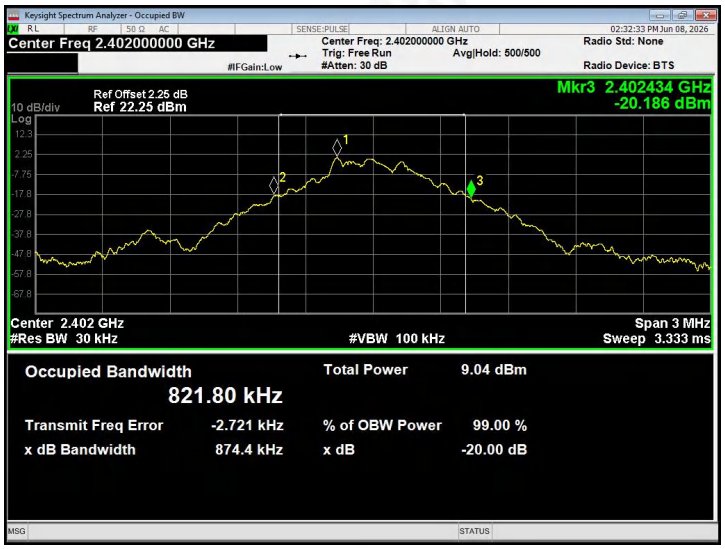
No deviation.

## 7.5 TEST RESULT

| Modulation | Packet | Test Channel | 20dB Occupied Bandwidth (MHz) | Result |
|---|---|---|---|---|
| GFSK | 1-DH1 | Lowest | 0.8744 | Pass |
| | | Middle | 0.8727 | |
| | | Highest | 0.8762 | |
| π/4-DQPSK | 2-DH1 | Lowest | 1.2520 | Pass |
| | | Middle | 1.2510 | |
| | | Highest | 1.2500 | |

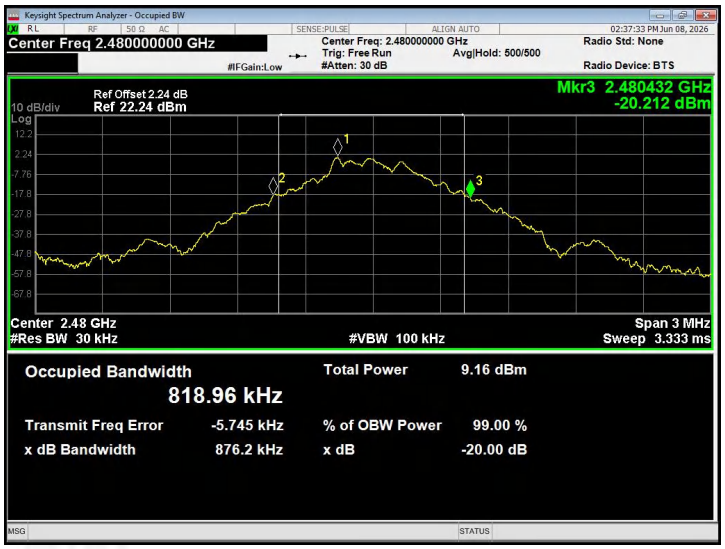
## GFSK - 1-DH1 Test plots

### Low Channel



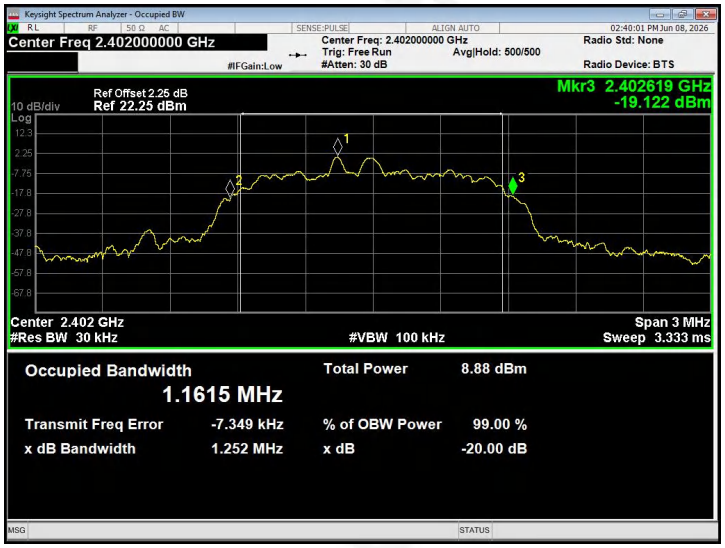

### Middle Channel

### High Channel

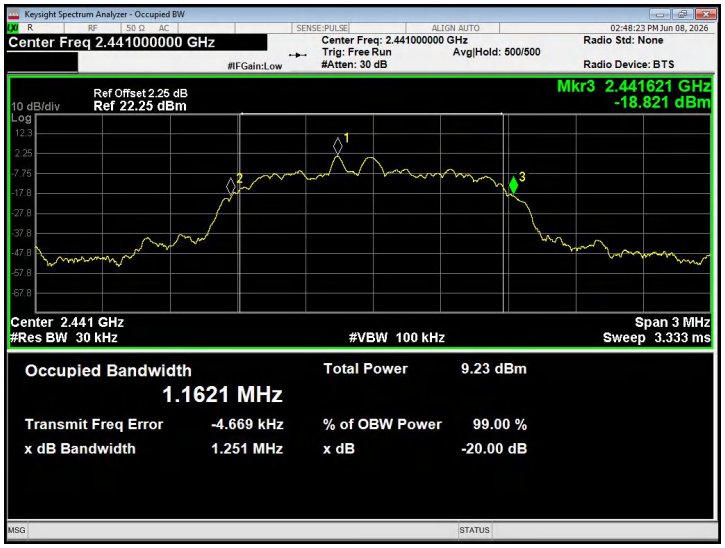


## π/4-DQPSK - 2-DH1 Test plots

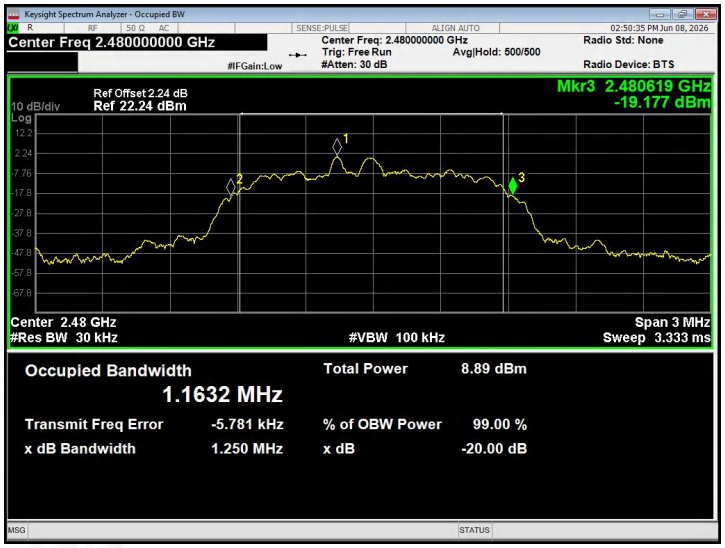
### Low Channel




### Middle Channel



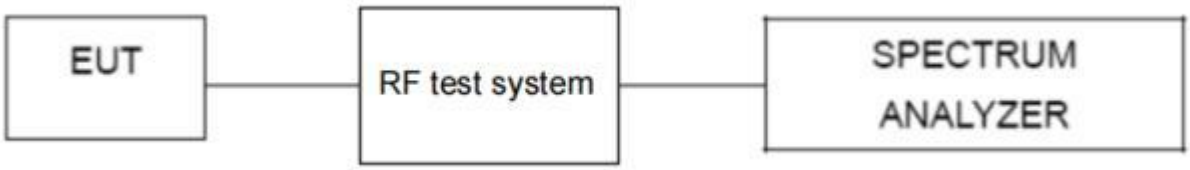

### High Channel



## 8. MAXIMUM PEAK OUTPUT POWER

| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.247 (b)(1) |
| Test Method: | ANSI C63.10-2020+Cor 1-2023 |
| Limit: | GFSK: 30dBm<br>π/4-DQPSK: 20.97dBm |

### 8.1 BLOCK DIAGRAM OF TEST SETUP




### 8.2 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.

### 8.3 TEST PROCEDURE

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set the spectrum analyzer: RBW = 2MHz. VBW =6MHz. Sweep = auto; Detector Function = Peak.

3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

### 8.4 DEVIATION FROM STANDARD

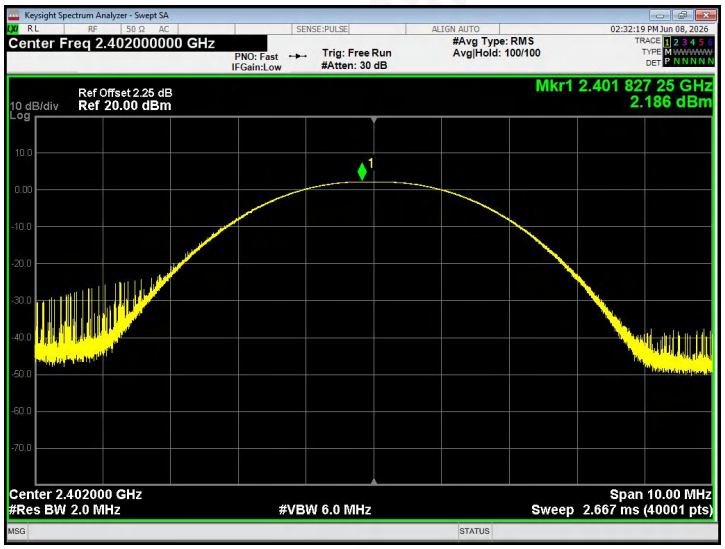
No deviation.

## 8.5 TEST RESULT

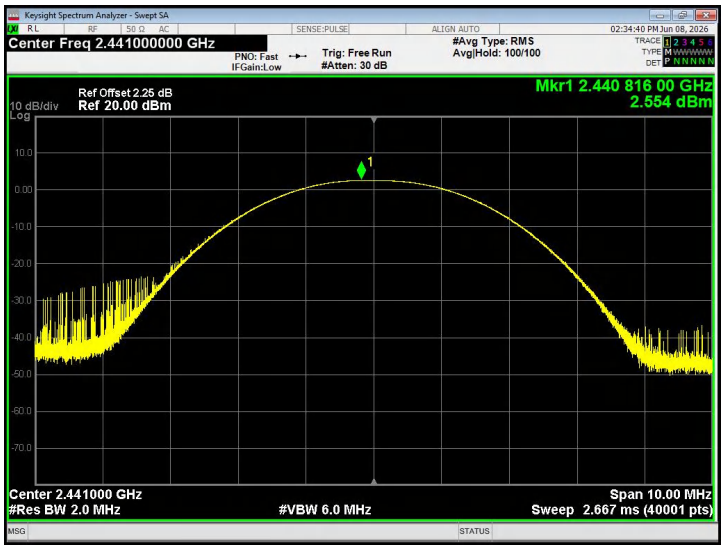
| Modulation | Packet | Test channel | Peak output power (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|
| GFSK | 1-DH1 | Lowest | 2.186 | 30.00 | Pass |
| | | Middle | 2.554 | | |
| | | Highest | 2.251 | | |
| π/4-DQPSK | 2-DH1 | Lowest | 3.047 | 21.00 | Pass |
| | | Middle | 3.374 | | |
| | | Highest | 3.010 | | |

## GFSK - 1-DH1 Test plots

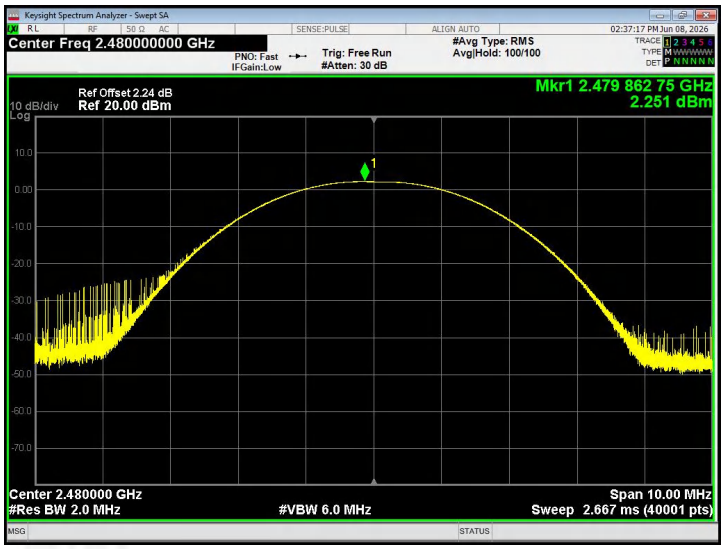
### Low Channel




### Middle Channel

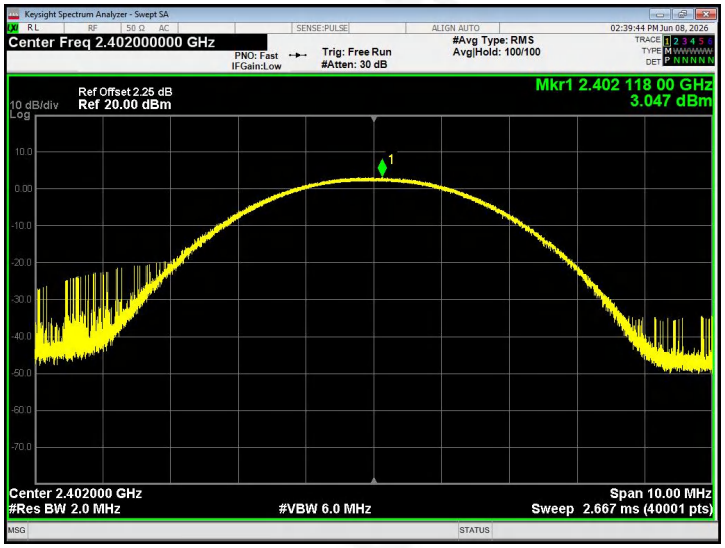



### High Channel

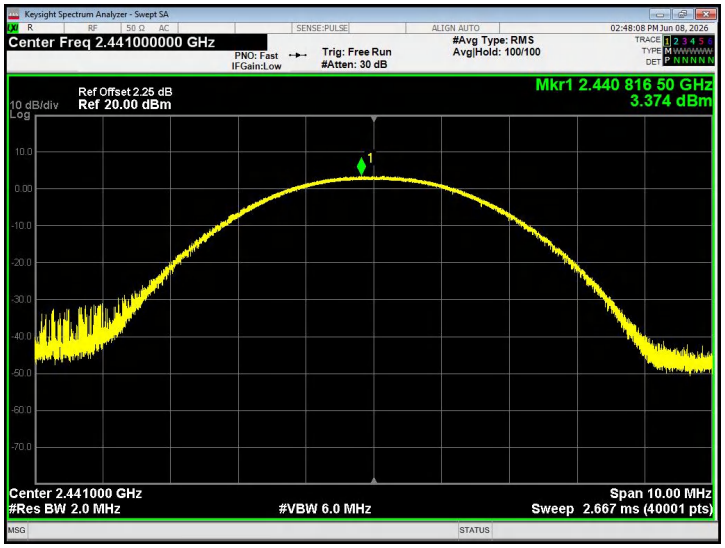


## π/4-DQPSK - 2-DH1 Test plots

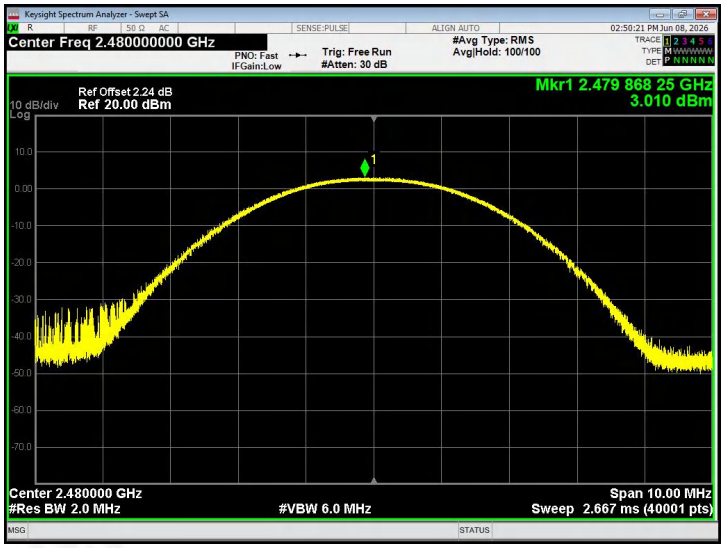
### Low Channel




### Middle Channel



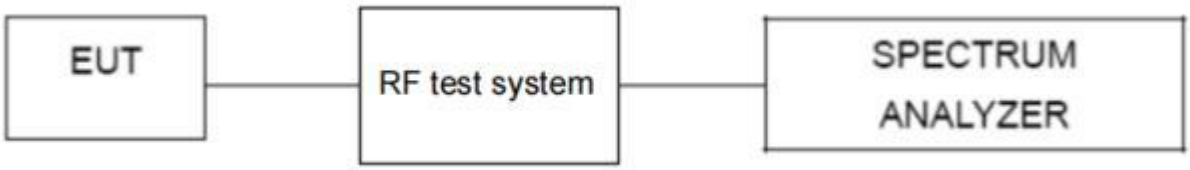

### High Channel



## 9. HOPPING CHANNEL SEPARATION

| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.247 (a)(1) |
| Test Method: | ANSI C63.10-2020+Cor 1-2023 |
| Receiver setup: | RBW = 30kHz, VBW = 100kHz, Detector = peak |
| Limit: | GFSK: 20dB Bandwidth<br>π/4-DQPSK: 0.025MHz or 2/3 of the 20dB Bandwidth<br>(whichever is greater) |

### 9.1 TEST SETUP




### 9.2 TEST PROCEDURE

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set the spectrum analyzer: RBW = 30kHz. VBW = 100kHz , Span = 3.0MHz. Sweep = auto; Detector Function = Peak; Trace = Max hold.

3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

### 9.3 DEVIATION FROM STANDARD

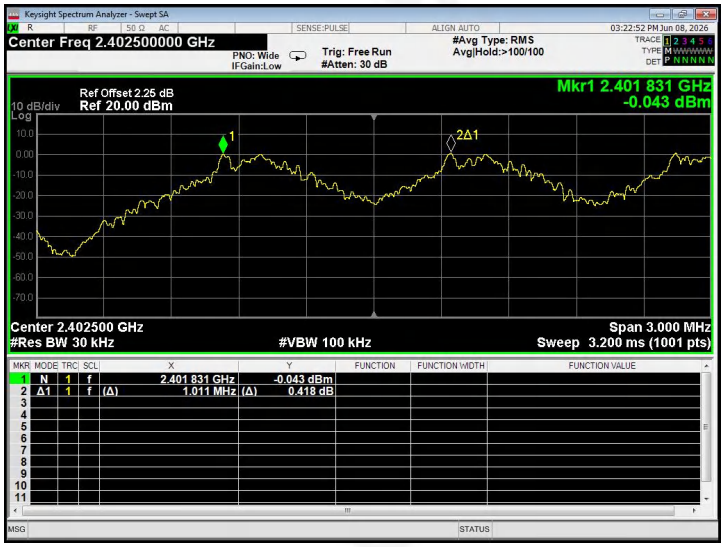
No deviation.

## 9.4 TEST RESULT

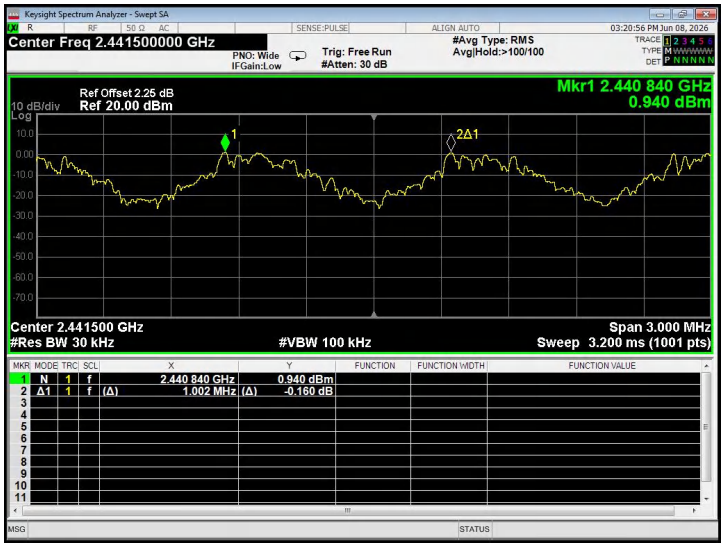
| Modulation | Packet | Test Channel | Separation (MHz) | Limit (MHz) | Result |
|---|---|---|---|---|---|
| GFSK | 1-DH1 | Low | 1.011 | 0.8744 | PASS |
| | | Middle | 1.002 | 0.8727 | PASS |
| | | High | 0.996 | 0.8762 | PASS |
| π/4-DQPSK | 2-DH1 | Low | 0.999 | 0.8333 | PASS |
| | | Middle | 1.158 | 0.8340 | PASS |
| | | High | 1.191 | 0.8333 | PASS |

## GFSK - 1-DH1 Test plots

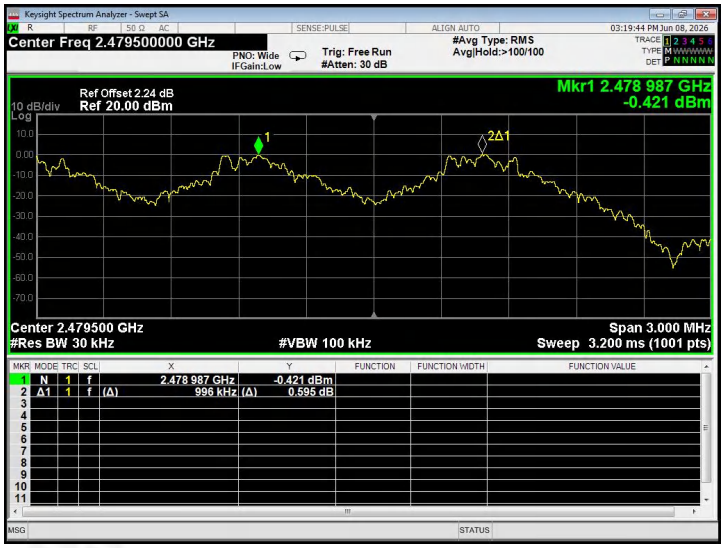
### Low Channel




### Middle Channel

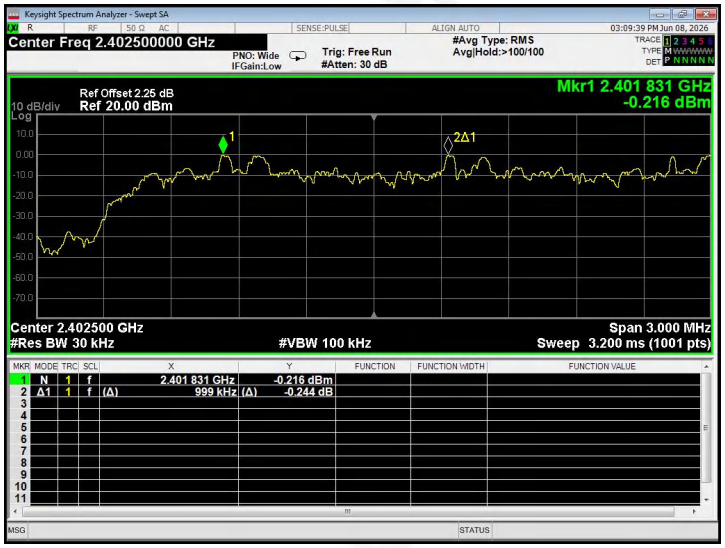



### High Channel

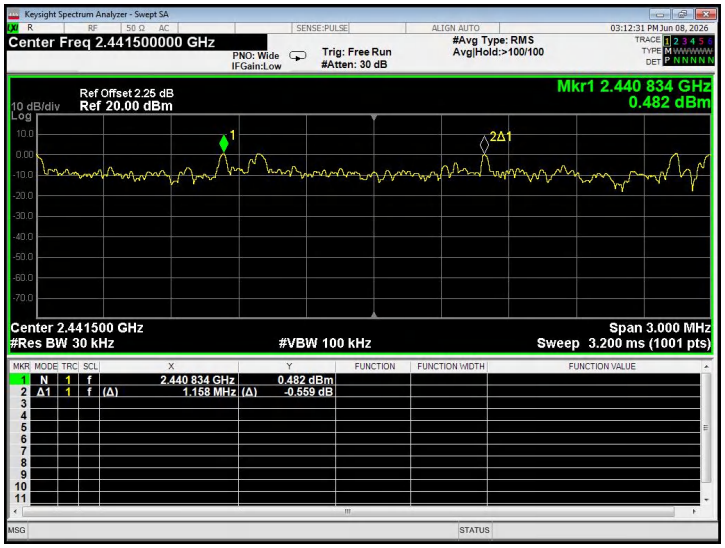


## π/4-DQPSK - 2-DH1 Test plots

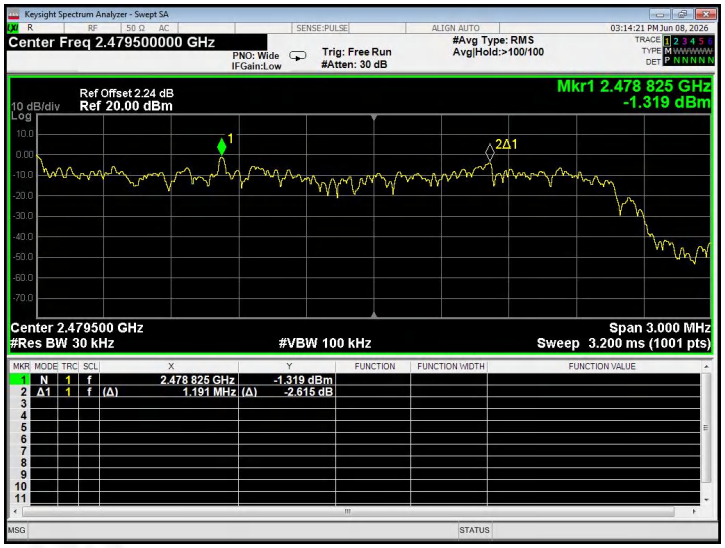
### Low Channel




### Middle Channel



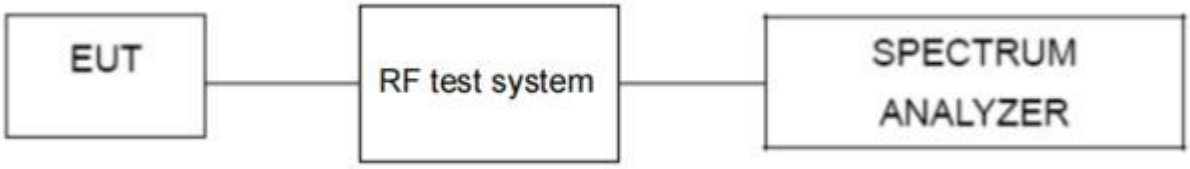

### High Channel



## 10.NUMBER OF HOPPING FREQUENCY

| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.247 (a)(1)(iii) |
| Test Method: | ANSI C63.10-2020+Cor 1-2023 |
| Receiver setup: | RBW = 100 kHz, VBW = 300 kHz<br>Frequency range = 2400MHz - 2483.5MHz<br>Detector = peak |
| Limit: | $P_{max\text{-}pk} \leq 1W$, $N_{ch} \geq 75$ Channels<br>$P_{max\text{-}pk} \leq 0.125W$, $N_{ch} \geq 15$ Channels |

### 10.1 TEST SETUP




### 10.2 TEST PROCEDURE

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set the spectrum analyzer: RBW = 100kHz. VBW = 300kHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.

3. Allow the trace to stabilize. It may prove necessary to break the span up to sections. in order to clearly show all of the hopping frequencies. The limit is specified in one of the subparagraphs of this Section.

4. Set the spectrum analyzer: Start Frequency = 2.4GHz, Stop Frequency = 2.4835GHz. Sweep=auto;

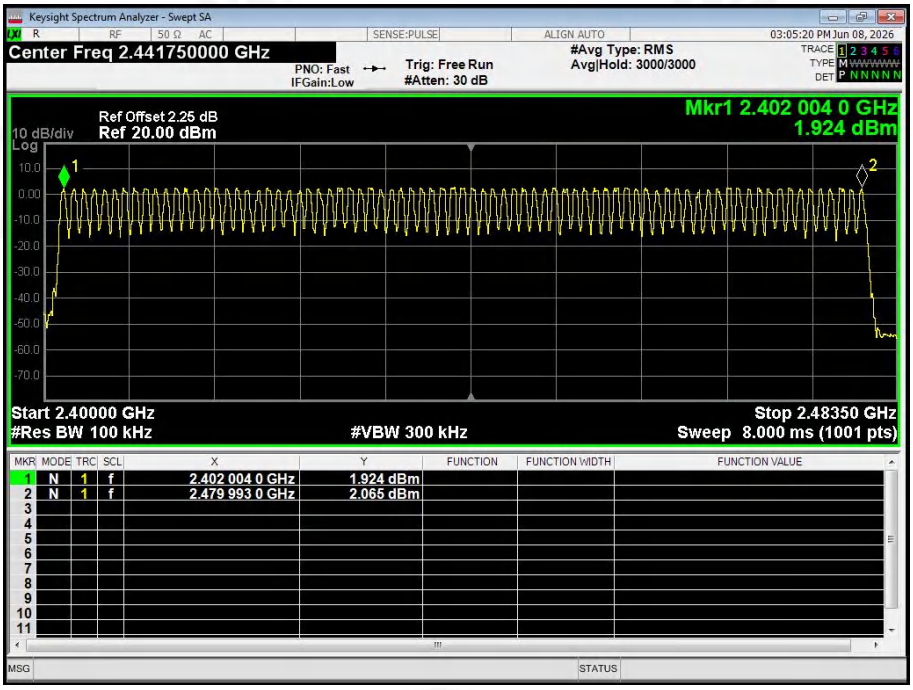
### 10.3 DEVIATION FROM STANDARD

No deviation.

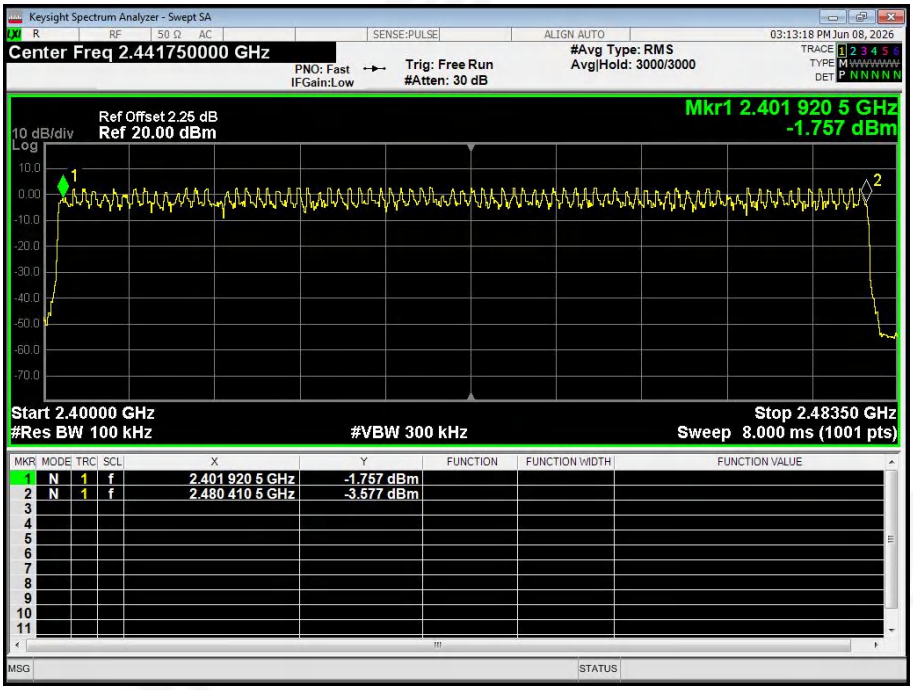
## 10.4 TEST RESULT

| Modulation | Packet | Hopping Number | Limit | Result |
|---|---|---|---|---|
| GFSK | 1-DH1 | 79 | ≥75 | Pass |
| π/4-DQPSK | 2-DH1 | 79 | ≥15 | Pass |

GFSK - 1-DH1 Test Plots



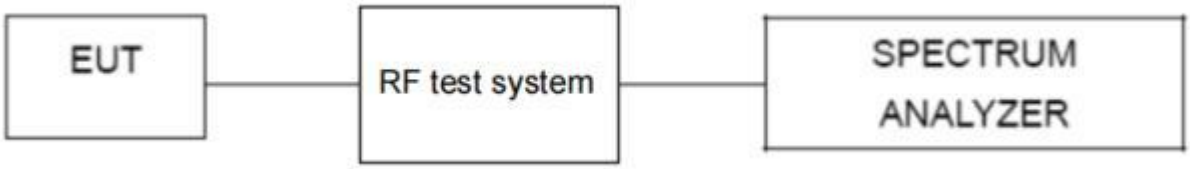

π/4-DQPSK - 2-DH1 Test Plots



## 11. DWELL TIME

| | |
|---|---|
| Test Requirement: | FCC Part15 C Section 15.247 (a)(1)(iii) |
| Test Method: | ANSI C63.10-2020+Cor 1-2023 |
| Receiver setup: | RBW=1MHz, VBW=3MHz, Span=0Hz, Detector=Peak |
| Limit: | 0.4 Second |

### 11.1 TEST SETUP




### 11.2 TEST PROCEDURE

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set spectrum analyzer span = 0 Hz;

3. Set RBW = 1MHz and VBW = 3MHz.Sweep = as necessary to capture the entire dwell time per hopping channel. Set the EUT for DH5 / DH3 / DH1 and 2DH5 / 2DH3 / 2DH1 packet transmitting.

4. Use the marker-delta function to determine the dwell time. If this value varies with different modes of operation (e.g.. data rate. modulation format. etc.). repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

### 11.3 DEVIATION FROM STANDARD

No deviation.

## 11.4 TEST RESULT

GFSK mode:

| Frequency | Packet | Pulse Time (ms) | Total Dwell Time (ms) | Limit (ms) | Result |
|---|---|---|---|---|---|
| 2441MHz | 1-DH1 | 0.382 | 122.240 | 400 | Pass |
| 2441MHz | 1-DH3 | 1.638 | 262.080 | 400 | Pass |
| 2441MHz | 1-DH5 | 2.886 | 307.840 | 400 | Pass |

Remarks:

The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s

Test channel: as blow

CH:2441MHz time slot=0.382(ms)*(1600/ (2*79))*31.6=122.240ms

CH:2441MHz time slot=1.638(ms)*(1600/ (4*79))*31.6=262.080ms

CH:2441MHz time slot=2.886(ms)*(1600/ (6*79))*31.6=307.840ms

π/4-DQPSK mode:

| Frequency | Packet | Pulse Time (ms) | Total Dwell Time (ms) | Limit (ms) | Result |
|---|---|---|---|---|---|
| 2441MHz | 2-DH1 | 0.392 | 125.440 | 400 | Pass |
| 2441MHz | 2-DH3 | 1.644 | 263.040 | 400 | Pass |
| 2441MHz | 2-DH5 | 2.892 | 308.480 | 400 | Pass |

Remarks:

The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s

Test channel: as blow

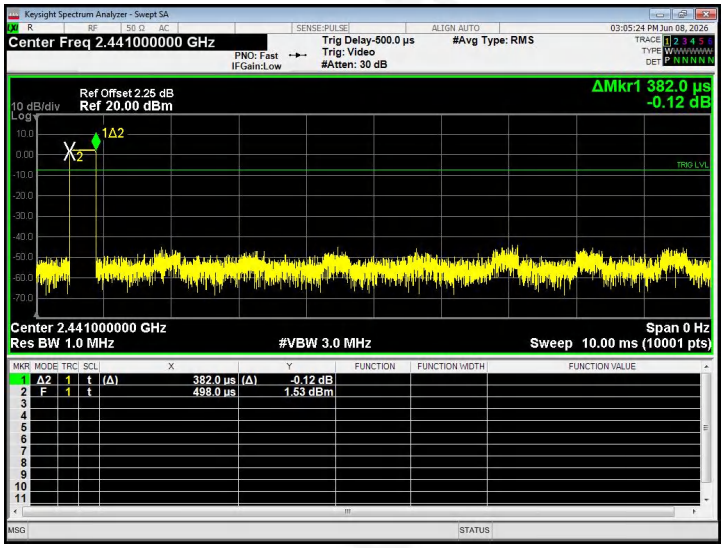
CH:2441MHz time slot=0.392(ms)*(1600/ (2*79))*31.6=125.440ms

CH:2441MHz time slot=1.644(ms)*(1600/ (4*79))*31.6=263.040ms

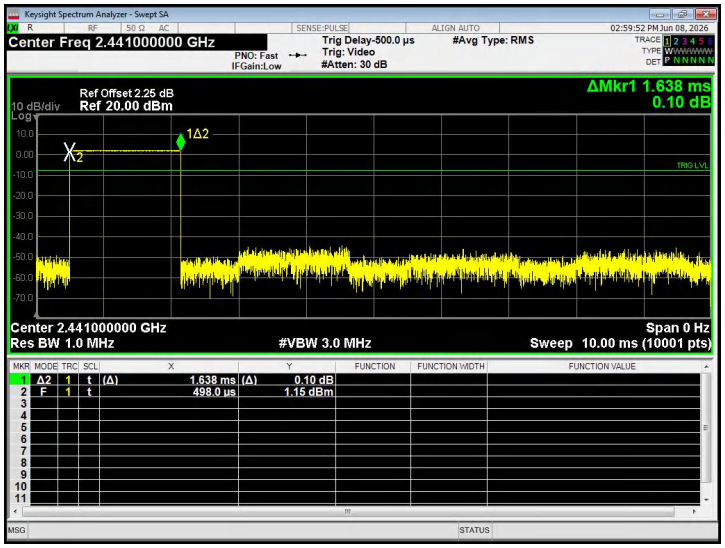
CH:2441MHz time slot=2.892(ms)*(1600/ (6*79))*31.6=308.480ms

## GFSK Test Plots

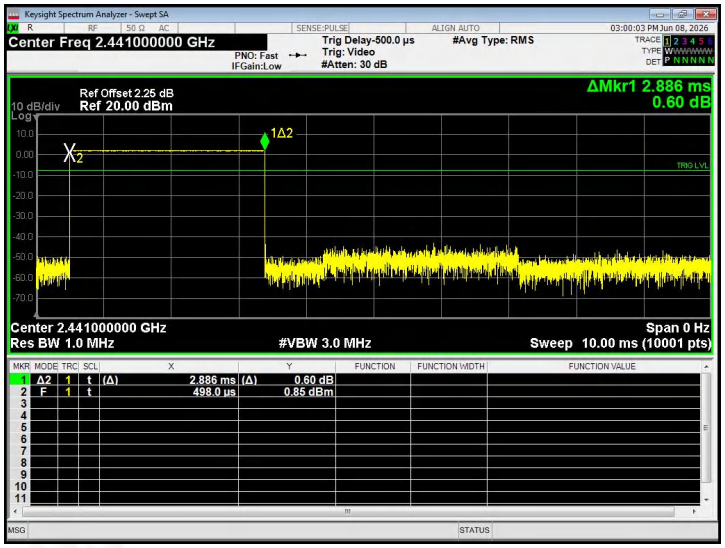
### 1-DH1 Middle Channel




### 1-DH3 Middle Channel

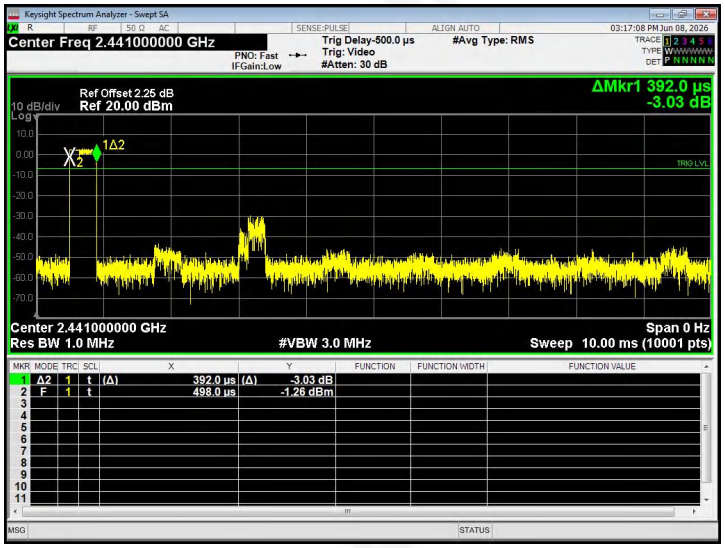



### 1-DH5 Middle Channel

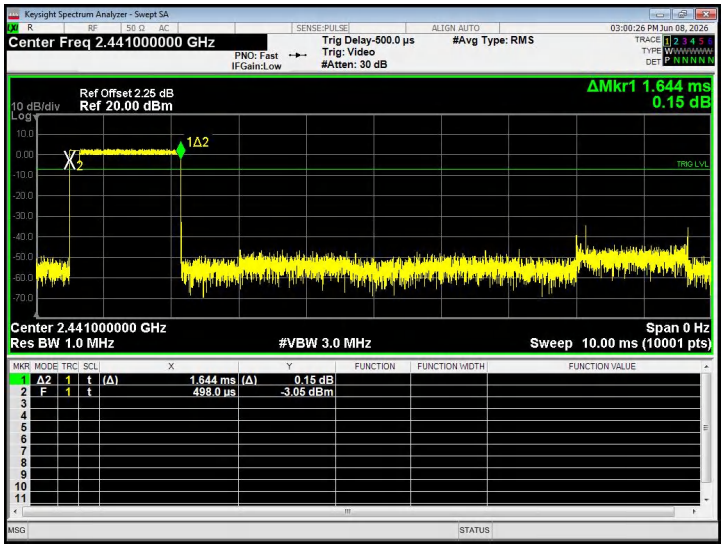


## π/4-DQPSK Test Plots

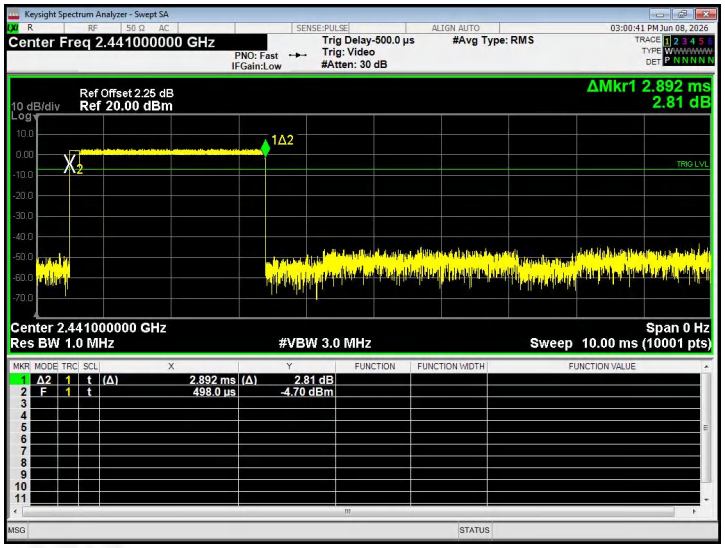
### 2-DH1 Middle Channel




### 2-DH3 Middle Channel




### 2-DH5 Middle Channel



## 12. ANTENNA REQUIREMENT

| Standard requirement: | FCC Part15 C Section 15.203 /247(c) |
|---|---|
| 15.203 requirement:<br>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, 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.<br>15.247(c) (1)(i) requirement:<br>(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi. | |
| EUT Antenna: | |
| The antenna is PCB Antenna, the best case gain of the antennas is -1.51dBi, reference to the appendix II for details. | |

## 13. TEST SETUP PHOTO

Reference to the appendix I for details.

## 14. EUT CONSTRUCTIONAL DETAILS

Reference to the appendix II for details.

**※※※※※ END OF REPORT ※※※※※**