

# TEST REPORT

Applicant Name: VTech Telecommunications Ltd  
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Tai Po NT, Hong Kong  
Report Number: SZ1240116-03706E-RF-00A  
FCC ID: EW780-2869-00

## Test Standard (s)

FCC PART 15.247

## Sample Description

Product Type: DECT 6.0 cordless phone  
Model No.: VG232-2  
Multiple Model(s) No.: VG232, VG232-3, VG232-4, VG232-5, VG232-XY  
Trade Mark: VTech  
Date Received: 2024/01/16  
Issue Date: 2024/04/08

|              |       |
|--------------|-------|
| Test Result: | Pass▲ |
|--------------|-------|

▲ In the configuration tested, the EUT complied with the standards above.

## Prepared and Checked By:

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Mike Xiao  
RF Engineer

## Approved By:

*Nancy Wang*

Nancy Wang  
RF Supervisor

Note: The information marked # is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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DOCUMENT REVISION HISTORY

| Revision Number | Report Number           | Description of Revision | Date of Revision |
|-----------------|-------------------------|-------------------------|------------------|
| 0               | SZ1240116-03706E-RF-00A | Original Report         | 2024/04/08       |

## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

|                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product                                                                                                                                                                                                    | DECT 6.0 cordless phone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Tested Model                                                                                                                                                                                               | VG232-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Multiple Model(s)                                                                                                                                                                                          | VG232, VG232-3, VG232-4, VG232-5, VG232-XY                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Frequency Range                                                                                                                                                                                            | Bluetooth: 2402~2480MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Transmit Peak Power                                                                                                                                                                                        | 6.80dBm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Modulation Technique                                                                                                                                                                                       | Bluetooth: GFSK, $\pi/4$ -DQPSK, 8DPSK                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Antenna Specification <sup>#</sup>                                                                                                                                                                         | -1.0dBi (provided by the applicant)                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Voltage Range                                                                                                                                                                                              | DC 6V from adapter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Sample serial number                                                                                                                                                                                       | 2GPU-7 for Conducted and Radiated Emissions Test<br>2GPU-5 for RF Conducted Test (Assigned by BACL, Shenzhen)                                                                                                                                                                                                                                                                                                                                                                                                |
| Sample/EUT Status                                                                                                                                                                                          | Good condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Adapter Information                                                                                                                                                                                        | Adapter 1<br>Model:A318-060040W-US1<br>Input: AC 100-120V~50/60Hz 0.15A<br>Output: DC 6.0V.0.4A<br>Adapter 2<br>Model:DSA-3PFM-05 BUS 060040<br>Input: AC 100-120V~50/60Hz 0.15A<br>Output: DC 6.0V.0.4A 2.4W<br>Adapter 3<br>Model:E004-1A060040VU<br>Input: AC 100-120V~50/60Hz 0.1A<br>Output: DC 6.0V.0.4A<br>Adapter 4<br>Model:GQ06-060040-ZU<br>Input: AC 100-120V~50/60Hz 0.15A<br>Output: DC 6.0V.0.4A<br>Adapter 5<br>Model:VT05UUS06040<br>Input: AC 100-120V~60Hz 150mA<br>Output: DC 6.0V.400mA |
| Note: The Multiple models are electrically identical with the test model except for model number. Please refer to the declaration letter <sup>#</sup> for more detail, which was provided by manufacturer. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

### Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, section 15.203, 15.207, 15.205, 15.209 and 15.247 rules.

## Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

## Measurement Uncertainty

| Parameter                          |                             | Uncertainty                           |
|------------------------------------|-----------------------------|---------------------------------------|
| Occupied Channel Bandwidth         |                             | ±5%                                   |
| RF output power, conducted         |                             | 0.72 dB(k=2, 95% level of confidence) |
| AC Power Lines Conducted Emissions | 9kHz-150kHz                 | 3.94dB(k=2, 95% level of confidence)  |
|                                    | 150kHz-30MHz                | 3.84dB(k=2, 95% level of confidence)  |
| Radiated Emissions                 | 9kHz - 30MHz                | 3.30dB(k=2, 95% level of confidence)  |
|                                    | 30MHz~200MHz (Horizontal)   | 4.48dB(k=2, 95% level of confidence)  |
|                                    | 30MHz~200MHz (Vertical)     | 4.55dB(k=2, 95% level of confidence)  |
|                                    | 200MHz~1000MHz (Horizontal) | 4.85dB(k=2, 95% level of confidence)  |
|                                    | 200MHz~1000MHz (Vertical)   | 5.05dB(k=2, 95% level of confidence)  |
|                                    | 1GHz - 6GHz                 | 5.35dB(k=2, 95% level of confidence)  |
|                                    | 6GHz - 18GHz                | 5.44dB(k=2, 95% level of confidence)  |
|                                    | 18GHz - 40GHz               | 5.16dB(k=2, 95% level of confidence)  |
| Temperature                        |                             | ±1°C                                  |
| Humidity                           |                             | ±1%                                   |
| Supply voltages                    |                             | ±0.4%                                 |

*Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.*

## Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 715558, the FCC Designation No. : CN5045.

## SYSTEM TEST CONFIGURATION

### Description of Test Configuration

The system was configured for testing in an engineering mode.

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 0       | 2402            | 40      | 2442            |
| 1       | 2403            | 41      | 2443            |
| 2       | 2404            | 42      | 2444            |
| ...     | ...             | ...     | ...             |
| ...     | ...             | ...     | ...             |
| 36      | 2438            | 75      | 2477            |
| 37      | 2439            | 76      | 2478            |
| 38      | 2440            | 77      | 2479            |
| 39      | 2441            | 78      | 2480            |

EUT was tested with Channel 0, 39 and 78.

### EUT Exercise Software

“Friendly serial assistant”<sup>#</sup> exercise software was used and the power level is 08<sup>#</sup>. The software and power level was provided by the applicant.

### Special Accessories

No special accessory.

### Equipment Modifications

No modification was made to the EUT tested.

### Support Equipment List and Details

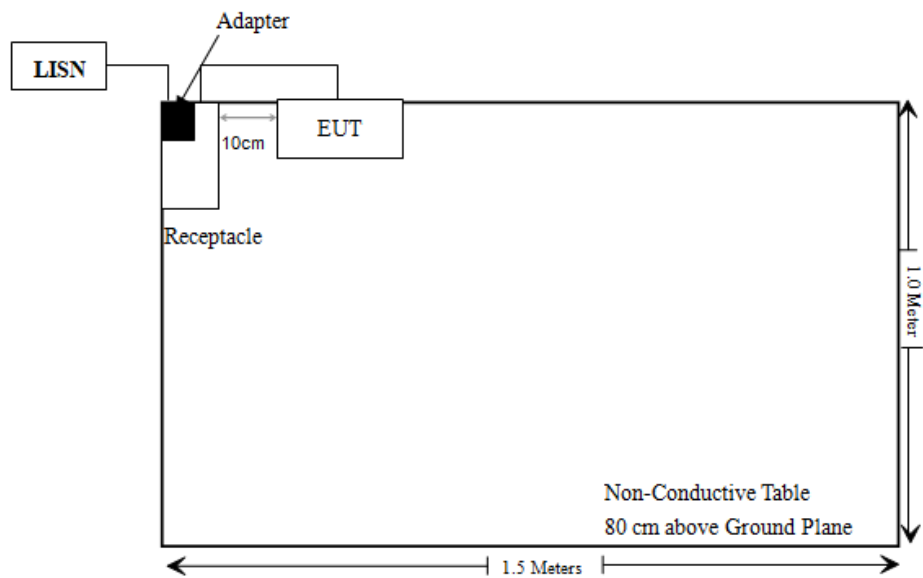
| Manufacturer | Description | Model | Serial Number |
|--------------|-------------|-------|---------------|
| /            | /           | /     | /             |

External I/O Cable

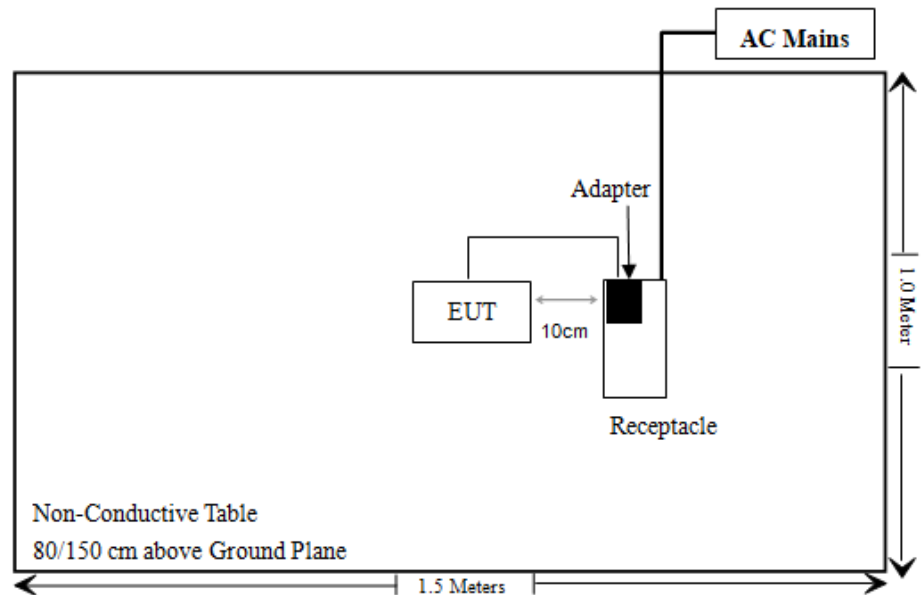
| Cable Description                | Length (m) | From Port | To      |
|----------------------------------|------------|-----------|---------|
| Un-shielding Detachable DC Cable | 1.8        | EUT       | Adapter |

Block Diagram of Test Setup

For Conducted Emissions:



For Radiated Emissions:



**SUMMARY OF TEST RESULTS**

| Rules                            | Description of Test                               | Result    |
|----------------------------------|---------------------------------------------------|-----------|
| §15.247 (i), §2.1091             | RF Exposure Evaluation                            | Compliant |
| FCC §15.203                      | Antenna Requirement                               | Compliant |
| FCC §15.207(a)                   | AC Line Conducted Emissions                       | Compliant |
| FCC §15.205, §15.209, §15.247(d) | Radiated Emissions                                | Compliant |
| FCC §15.247(a)(1)                | 20 dB Emission Bandwidth & 99% Occupied Bandwidth | Compliant |
| FCC §15.247(a)(1)                | Channel Separation Test                           | Compliant |
| FCC §15.247(a)(1)(iii)           | Time of Occupancy (Dwell Time)                    | Compliant |
| FCC §15.247(a)(1)(iii)           | Quantity of hopping channel Test                  | Compliant |
| FCC §15.247(b)(1)                | Peak Output Power Measurement                     | Compliant |
| FCC §15.247(d)                   | Band edges                                        | Compliant |

**TEST EQUIPMENT LIST**

| Manufacturer                   | Description                  | Model                   | Serial Number          | Calibration Date | Calibration Due Date |
|--------------------------------|------------------------------|-------------------------|------------------------|------------------|----------------------|
| <b>Conducted Emission Test</b> |                              |                         |                        |                  |                      |
| Rohde & Schwarz                | EMI Test Receiver            | ESCI                    | 101120                 | 2024/01/16       | 2025/01/15           |
| Rohde & Schwarz                | LISN                         | ENV216                  | 101613                 | 2024/01/16       | 2025/01/15           |
| Rohde & Schwarz                | Transient Limiter            | ESH3Z2                  | DE25985                | 2023/08/03       | 2024/08/02           |
| Unknown                        | CE Cable                     | CE Cable                | UF A210B-1-0720-504504 | 2023/08/03       | 2024/08/02           |
| Audix                          | EMI Test software            | E3                      | 191218                 | NCR              | NCR                  |
| <b>Radiated Emission Test</b>  |                              |                         |                        |                  |                      |
| R&S                            | EMI Test Receiver            | ESR3                    | 102455                 | 2024/01/16       | 2025/01/15           |
| Sonoma instrument              | Pre-amplifier                | 310 N                   | 186238                 | 2023/06/08       | 2024/06/07           |
| Sunol Sciences                 | Broadband Antenna            | JB1                     | A040904-1              | 2023/07/20       | 2024/07/19           |
| ETS                            | Passive Loop Antenna         | 6512                    | 29604                  | 2023/07/07       | 2024/07/06           |
| Unknown                        | Cable                        | Chamber Cable 1         | F-03-EM236             | 2023/08/03       | 2024/08/02           |
| Unknown                        | Cable                        | Chamber Cable 4         | EC-007                 | 2023/08/03       | 2024/08/02           |
| Audix                          | EMI Test software            | E3                      | 19821b(V9)             | NCR              | NCR                  |
| Rohde & Schwarz                | Spectrum Analyzer            | FSV40                   | 101605                 | 2023/04/18       | 2024/04/17           |
| COM-POWER                      | Pre-amplifier                | PA-122                  | 181919                 | 2023/06/29       | 2024/06/28           |
| Schwarzbeck                    | Horn Antenna                 | BBHA9120D(1201)         | 1143                   | 2023/07/26       | 2024/07/25           |
| Unknown                        | RF Cable                     | KMSE                    | 0735                   | 2023/10/08       | 2024/10/07           |
| Unknown                        | RF Cable                     | UFA147                  | 219661                 | 2023/10/08       | 2024/10/07           |
| Unknown                        | RF Cable                     | XH750A-N                | J-10M                  | 2023/10/08       | 2024/10/07           |
| SNSD                           | 2.4G Band Reject filter      | BSF2402-2480MN-0898-001 | 2.4G filter            | 2023/08/03       | 2024/08/02           |
| Audix                          | EMI Test software            | E3                      | 191218(V9)             | NCR              | NCR                  |
| <b>RF Conducted Test</b>       |                              |                         |                        |                  |                      |
| Tonscend                       | RF control Unit              | JS0806-2                | 19D8060154             | 2023/09/06       | 2024/09/05           |
| Rohde & Schwarz                | Signal and Spectrum Analyzer | FSV40                   | 101473                 | 2024/01/16       | 2025/01/15           |
| MARCONI                        | 10dB Attenuator              | 6534/3                  | 2942                   | 2023/07/04       | 2024/07/03           |
| Unknown                        | RF Cable                     | Unknown                 | Unknown                | Each time        | /                    |

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

## FCC §1.1307(b) & §2.1091 – RF EXPOSURE EVALUATION

### Applicable Standard

According to KDB 447498 D04 Interim General RF Exposure Guidance v01, clause 2.1.4 –MPE-Based Exemption:

An alternative to the SAR-based exemption is provided in § 1.1307(b)(3)(i)(C), for a much wider frequency range, from 300 kHz to 100 GHz, applicable for separation distances greater or equal to  $\lambda/2\pi$ , where  $\lambda$  is the free-space operating wavelength in meters. The MPE-based test exemption condition is in terms of ERP, defined as the product of the maximum antenna gain and the delivered maximum time-averaged power. For this case, a RF source is an RF exempt device if its ERP (watts) is no more than a frequency-dependent value, as detailed tabular form in Appendix B. These limits have been derived based on the basic specifications on Maximum Permissible Exposure (MPE) considered for the FCC rules in § 1.1310(e)(1).

Table to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

| RF Source frequency (MHz) | Threshold ERP (watts) |
|---------------------------|-----------------------|
| 0.3-1.34                  | $1,920 R^2$ .         |
| 1.34-30                   | $3,450 R^2/f^2$ .     |
| 30-300                    | $3.83 R^2$ .          |
| 300-1,500                 | $0.0128 R^2 f$ .      |
| 1,500-100,000             | $19.2 R^2$ .          |

f = frequency in MHz;

R = minimum separation distance from the body of a nearby person (appropriate units, e.g., m);

For multiple RF sources: Multiple RF sources are exempt if:

in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation:

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

**Result**

| Mode | Frequency<br>(MHz)    | Tune up<br>conducted<br>power <sup>#</sup> | Antenna Gain <sup>#</sup> |       | ERP   |       | Evaluation<br>Distance<br>(m) | MPE-Based<br>Exemption<br>Threshold<br>(mW) |
|------|-----------------------|--------------------------------------------|---------------------------|-------|-------|-------|-------------------------------|---------------------------------------------|
|      |                       | (dBm)                                      | (dBi)                     | (dBd) | (dBm) | (mW)  |                               |                                             |
| DECT | 1921.536-<br>1928.448 | 20.0                                       | 0                         | -2.15 | 17.85 | 60.95 | 0.2                           | 768                                         |
| BT   | 2402-2480             | 7.0                                        | -1.0                      | -3.15 | 3.85  | 2.43  | 0.2                           | 768                                         |

Note 1: The tune-up power and antenna gain was declared by the applicant.

Note 2: 0dBd=2.15dBi.

Note 3: The DECT function can transmit at the same time with the Bluetooth function.

Simultaneous transmitting consideration (worst case):

The ratio=  $ERP_{DECT}/limit + ERP_{BT}/limit = 60.95/768 + 2.43/768 = 0.083 < 1.0$

**Result: Compliant**

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## **FCC §15.203 - ANTENNA REQUIREMENT**

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### **Applicable Standard**

According to FCC § 15.203, 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.

### **Antenna Connector Construction**

The EUT has one internal antenna arrangement, which was permanently attached, the antenna gain<sup>#</sup> is -1dBi, fulfill the requirement of this section. Please refer to the EUT photos.

**Result: Compliant**

## FCC §15.207 (a) - AC LINE CONDUCTED EMISSIONS

### Applicable Standard

FCC §15.207(a)

### EUT Setup



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

The measurement procedure of EUT setup is according with ANSI C63.10-2013. The related limit was specified in FCC Part 15.207.

The spacing between the peripherals was 10 cm.

### EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

| Frequency Range  | IF B/W |
|------------------|--------|
| 150 kHz – 30 MHz | 9 kHz  |

### Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

## Factor & Over Limit Calculation

The factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss}$$

The “**Over limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

$$\begin{aligned}\text{Over Limit} &= \text{Level} - \text{Limit} \\ \text{Level} &= \text{Read Level} + \text{Factor}\end{aligned}$$

Note: The term "cable loss" refers to the combination of a cable and a 10dB transient limiter (attenuator).

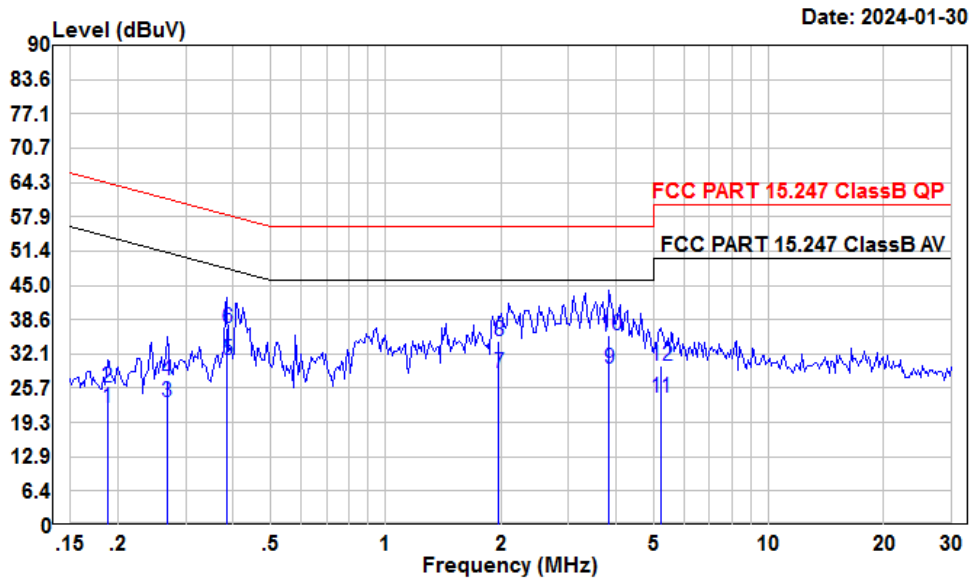
## Test Data

### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 22 °C     |
| Relative Humidity: | 62 %      |
| ATM Pressure:      | 101.0 kPa |

*The testing was performed by Macy Shi on 2024-01-30.*

*EUT operation mode: Transmitting (Maximum output power mode,  $\pi/4$ -DQPSK High Channel)*

*For Adapter 1***AC 120V/60 Hz, Line**

Condition: Line

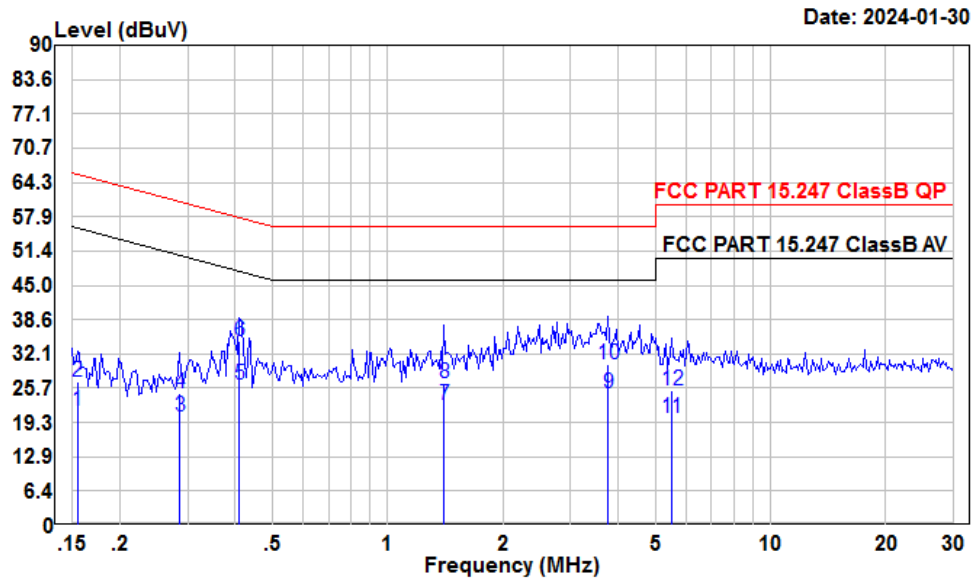
Project : SZ1240116-03706E-RF

Tester : Macy shi

Note : BT

|    | Freq | Read Level | LISN Level | LISN Factor | Cable Loss | Limit Line | Over Limit | Remark  |
|----|------|------------|------------|-------------|------------|------------|------------|---------|
|    | MHz  | dBuV       | dBuV       | dB          | dB         | dBuV       | dB         |         |
| 1  | 0.19 | 1.18       | 21.90      | 10.60       | 10.12      | 54.15      | -32.25     | Average |
| 2  | 0.19 | 5.13       | 25.85      | 10.60       | 10.12      | 64.15      | -38.30     | QP      |
| 3  | 0.27 | 2.18       | 22.99      | 10.63       | 10.18      | 51.16      | -28.17     | Average |
| 4  | 0.27 | 6.39       | 27.20      | 10.63       | 10.18      | 61.16      | -33.96     | QP      |
| 5  | 0.39 | 10.19      | 31.06      | 10.67       | 10.20      | 48.17      | -17.11     | Average |
| 6  | 0.39 | 16.06      | 36.93      | 10.67       | 10.20      | 58.17      | -21.24     | QP      |
| 7  | 1.97 | 7.49       | 28.47      | 10.80       | 10.18      | 46.00      | -17.53     | Average |
| 8  | 1.97 | 13.58      | 34.56      | 10.80       | 10.18      | 56.00      | -21.44     | QP      |
| 9  | 3.84 | 8.44       | 29.31      | 10.61       | 10.26      | 46.00      | -16.69     | Average |
| 10 | 3.84 | 14.72      | 35.59      | 10.61       | 10.26      | 56.00      | -20.41     | QP      |
| 11 | 5.22 | 2.89       | 23.81      | 10.70       | 10.22      | 50.00      | -26.19     | Average |
| 12 | 5.22 | 9.09       | 30.01      | 10.70       | 10.22      | 60.00      | -29.99     | QP      |

## AC 120V/60 Hz, Neutral



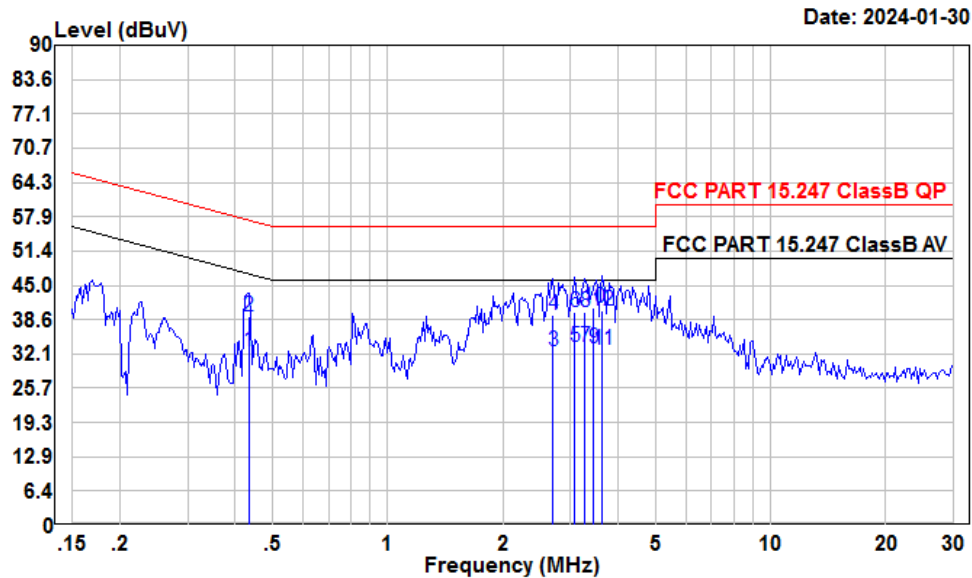
Condition: Neutral

Project : SZ1240116-03706E-RF

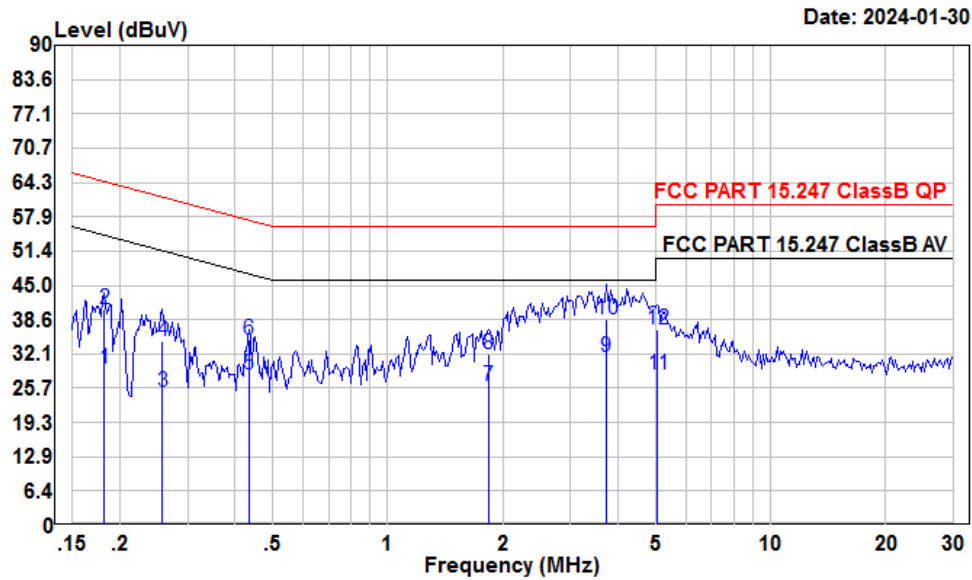
Tester : Macy shi

Note : BT

|    | Freq | Read Level | Level | LISN Factor | Cable Loss | Limit Line | Over Limit | Remark  |
|----|------|------------|-------|-------------|------------|------------|------------|---------|
|    | MHz  | dBuV       | dBuV  | dB          | dB         | dBuV       | dB         |         |
| 1  | 0.15 | 0.76       | 21.43 | 10.52       | 10.15      | 55.74      | -34.31     | Average |
| 2  | 0.15 | 6.32       | 26.99 | 10.52       | 10.15      | 65.74      | -38.75     | QP      |
| 3  | 0.29 | -0.55      | 20.33 | 10.74       | 10.14      | 50.63      | -30.30     | Average |
| 4  | 0.29 | 3.78       | 24.66 | 10.74       | 10.14      | 60.63      | -35.97     | QP      |
| 5  | 0.41 | 5.44       | 26.43 | 10.78       | 10.21      | 47.64      | -21.21     | Average |
| 6  | 0.41 | 13.63      | 34.62 | 10.78       | 10.21      | 57.64      | -23.02     | QP      |
| 7  | 1.40 | 2.00       | 22.71 | 10.65       | 10.06      | 46.00      | -23.29     | Average |
| 8  | 1.40 | 5.91       | 26.62 | 10.65       | 10.06      | 56.00      | -29.38     | QP      |
| 9  | 3.76 | 3.92       | 24.88 | 10.70       | 10.26      | 46.00      | -21.12     | Average |
| 10 | 3.76 | 9.32       | 30.28 | 10.70       | 10.26      | 56.00      | -25.72     | QP      |
| 11 | 5.51 | -1.02      | 20.01 | 10.81       | 10.22      | 50.00      | -29.99     | Average |
| 12 | 5.51 | 4.31       | 25.34 | 10.81       | 10.22      | 60.00      | -34.66     | QP      |

*For Adapter 2***AC 120V/60 Hz, Line**

## AC 120V/60 Hz, Neutral



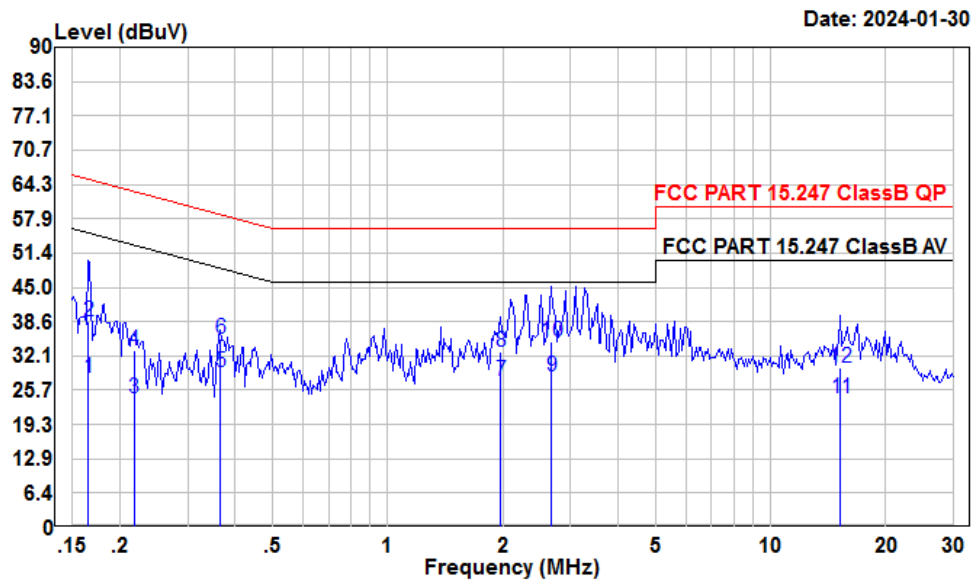
Condition: Neutral

Project : SZ1240116-03706E-RF

Tester : Macy shi

Note : BT

|    | Freq | Read Level | LISN Level | LISN Factor | Cable Loss | Limit Line | Over Limit | Remark  |
|----|------|------------|------------|-------------|------------|------------|------------|---------|
|    | MHz  | dBuV       | dBuV       | dB          | dB         | dBuV       | dB         |         |
| 1  | 0.18 | 8.59       | 29.35      | 10.63       | 10.13      | 54.42      | -25.07     | Average |
| 2  | 0.18 | 19.81      | 40.57      | 10.63       | 10.13      | 64.42      | -23.85     | QP      |
| 3  | 0.26 | 3.99       | 24.92      | 10.73       | 10.20      | 51.51      | -26.59     | Average |
| 4  | 0.26 | 13.54      | 34.47      | 10.73       | 10.20      | 61.51      | -27.04     | QP      |
| 5  | 0.43 | 7.26       | 28.24      | 10.78       | 10.20      | 47.20      | -18.96     | Average |
| 6  | 0.43 | 13.88      | 34.86      | 10.78       | 10.20      | 57.20      | -22.34     | QP      |
| 7  | 1.83 | 5.37       | 26.21      | 10.69       | 10.15      | 46.00      | -19.79     | Average |
| 8  | 1.83 | 11.37      | 32.21      | 10.69       | 10.15      | 56.00      | -23.79     | QP      |
| 9  | 3.72 | 10.49      | 31.45      | 10.70       | 10.26      | 46.00      | -14.55     | Average |
| 10 | 3.72 | 17.56      | 38.52      | 10.70       | 10.26      | 56.00      | -17.48     | QP      |
| 11 | 5.06 | 7.24       | 28.24      | 10.78       | 10.22      | 50.00      | -21.76     | Average |
| 12 | 5.06 | 15.72      | 36.72      | 10.78       | 10.22      | 60.00      | -23.28     | QP      |

*For Adapter 3***AC 120V/60 Hz, Line**

Condition: Line

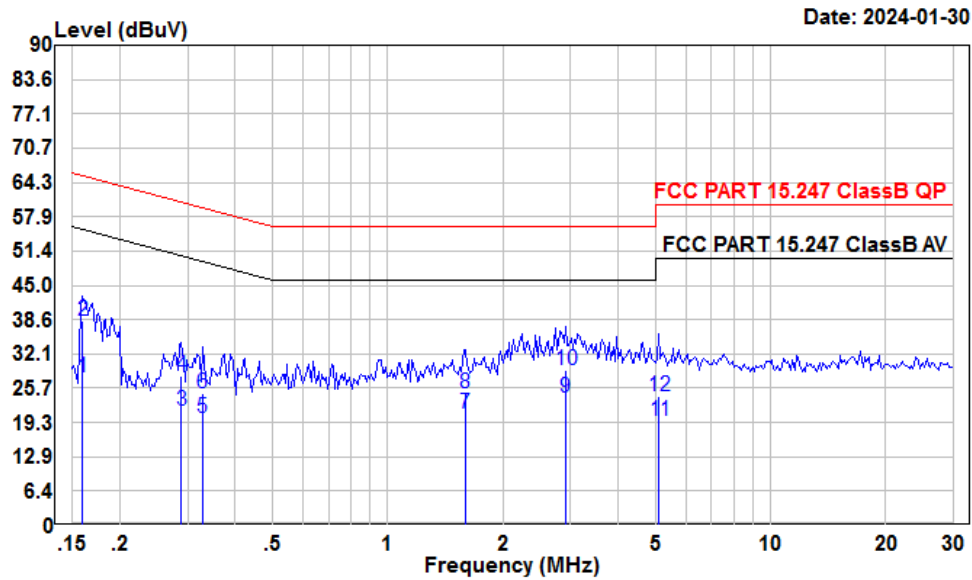
Project : SZ1240116-03706E-RF

Tester : Macy shi

Note : BT

|    | Freq  | Read Level | Level | LISN Factor | Cable Loss | Limit Line | Over Limit | Remark  |
|----|-------|------------|-------|-------------|------------|------------|------------|---------|
|    | MHz   | dBuV       | dBuV  | dB          | dB         | dBuV       | dB         |         |
| 1  | 0.17  | 7.27       | 28.02 | 10.60       | 10.15      | 55.21      | -27.19     | Average |
| 2  | 0.17  | 17.87      | 38.62 | 10.60       | 10.15      | 65.21      | -26.59     | QP      |
| 3  | 0.22  | 3.34       | 24.08 | 10.61       | 10.13      | 52.92      | -28.84     | Average |
| 4  | 0.22  | 12.36      | 33.10 | 10.61       | 10.13      | 62.92      | -29.82     | QP      |
| 5  | 0.37  | 8.31       | 29.16 | 10.67       | 10.18      | 48.61      | -19.45     | Average |
| 6  | 0.37  | 14.59      | 35.44 | 10.67       | 10.18      | 58.61      | -23.17     | QP      |
| 7  | 1.97  | 6.37       | 27.35 | 10.80       | 10.18      | 46.00      | -18.65     | Average |
| 8  | 1.97  | 12.03      | 33.01 | 10.80       | 10.18      | 56.00      | -22.99     | QP      |
| 9  | 2.68  | 7.22       | 28.17 | 10.72       | 10.23      | 46.00      | -17.83     | Average |
| 10 | 2.68  | 13.80      | 34.75 | 10.72       | 10.23      | 56.00      | -21.25     | QP      |
| 11 | 15.23 | 3.69       | 24.21 | 10.42       | 10.10      | 50.00      | -25.79     | Average |
| 12 | 15.23 | 9.30       | 29.82 | 10.42       | 10.10      | 60.00      | -30.18     | QP      |

## AC 120V/60 Hz, Neutral



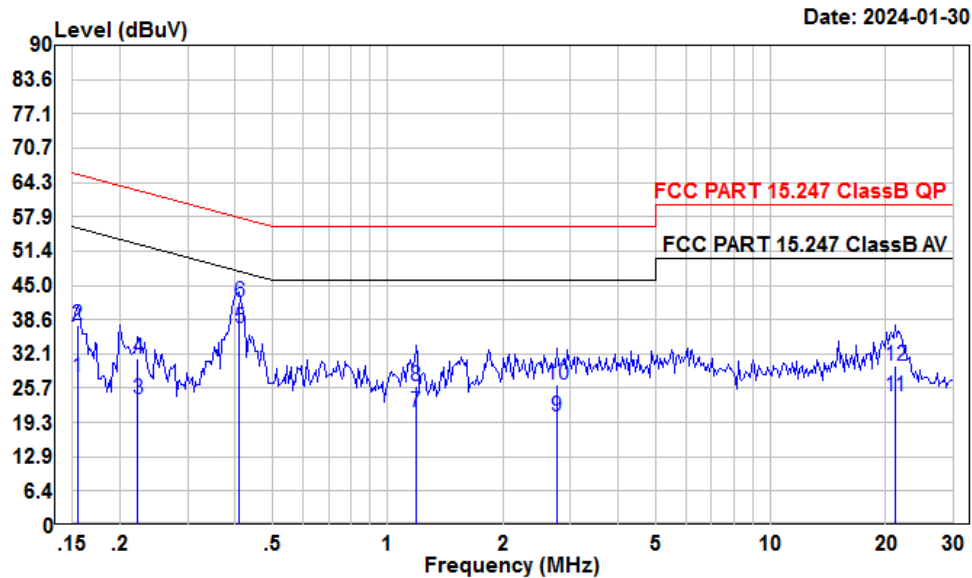
Condition: Neutral

Project : SZ1240116-03706E-RF

Tester : Macy shi

Note : BT

|    |      | Read  |       | LISN   | Cable | Limit | Over   |         |
|----|------|-------|-------|--------|-------|-------|--------|---------|
|    | Freq | Level | Level | Factor | Loss  | Line  | Limit  | Remark  |
|    | MHz  | dBuV  | dBuV  | dB     | dB    | dBuV  | dB     |         |
| 1  | 0.16 | 7.08  | 27.77 | 10.54  | 10.15 | 55.47 | -27.70 | Average |
| 2  | 0.16 | 17.62 | 38.31 | 10.54  | 10.15 | 65.47 | -27.16 | QP      |
| 3  | 0.29 | 0.60  | 21.48 | 10.74  | 10.14 | 50.54 | -29.06 | Average |
| 4  | 0.29 | 7.26  | 28.14 | 10.74  | 10.14 | 60.54 | -32.40 | QP      |
| 5  | 0.33 | -0.81 | 20.08 | 10.75  | 10.14 | 49.49 | -29.41 | Average |
| 6  | 0.33 | 3.92  | 24.81 | 10.75  | 10.14 | 59.49 | -34.68 | QP      |
| 7  | 1.59 | 0.16  | 20.91 | 10.67  | 10.08 | 46.00 | -25.09 | Average |
| 8  | 1.59 | 4.10  | 24.85 | 10.67  | 10.08 | 56.00 | -31.15 | QP      |
| 9  | 2.92 | 3.02  | 23.98 | 10.70  | 10.26 | 46.00 | -22.02 | Average |
| 10 | 2.92 | 8.07  | 29.03 | 10.70  | 10.26 | 56.00 | -26.97 | QP      |
| 11 | 5.11 | -1.47 | 19.54 | 10.79  | 10.22 | 50.00 | -30.46 | Average |
| 12 | 5.11 | 3.10  | 24.11 | 10.79  | 10.22 | 60.00 | -35.89 | QP      |

*For Adapter 4***AC 120V/60 Hz, Line**

Condition: Line

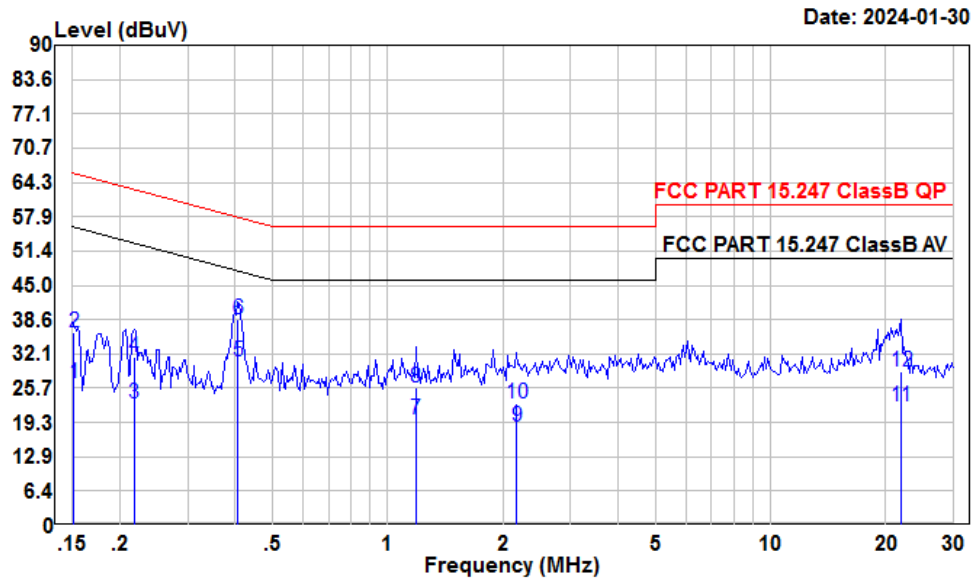
Project : SZ1240116-03706E-RF

Tester : Macy shi

Note : BT

|    | Freq  | Read Level | LISN Level | LISN Factor | Cable Loss | Limit Line | Over Limit | Remark  |
|----|-------|------------|------------|-------------|------------|------------|------------|---------|
|    | MHz   | dBuV       | dBuV       | dB          | dB         | dBuV       | dB         |         |
| 1  | 0.15  | 7.09       | 27.84      | 10.60       | 10.15      | 55.74      | -27.90     | Average |
| 2  | 0.15  | 16.65      | 37.40      | 10.60       | 10.15      | 65.74      | -28.34     | QP      |
| 3  | 0.22  | 2.94       | 23.69      | 10.61       | 10.14      | 52.74      | -29.05     | Average |
| 4  | 0.22  | 10.52      | 31.27      | 10.61       | 10.14      | 62.74      | -31.47     | QP      |
| 5  | 0.41  | 16.14      | 37.03      | 10.68       | 10.21      | 47.64      | -10.61     | Average |
| 6  | 0.41  | 20.98      | 41.87      | 10.68       | 10.21      | 57.64      | -15.77     | QP      |
| 7  | 1.18  | 0.40       | 21.18      | 10.72       | 10.06      | 46.00      | -24.82     | Average |
| 8  | 1.18  | 5.32       | 26.10      | 10.72       | 10.06      | 56.00      | -29.90     | QP      |
| 9  | 2.77  | -0.48      | 20.47      | 10.71       | 10.24      | 46.00      | -25.53     | Average |
| 10 | 2.77  | 5.47       | 26.42      | 10.71       | 10.24      | 56.00      | -29.58     | QP      |
| 11 | 21.15 | 3.46       | 24.31      | 10.71       | 10.14      | 50.00      | -25.69     | Average |
| 12 | 21.15 | 9.20       | 30.05      | 10.71       | 10.14      | 60.00      | -29.95     | QP      |

## AC 120V/60 Hz, Neutral



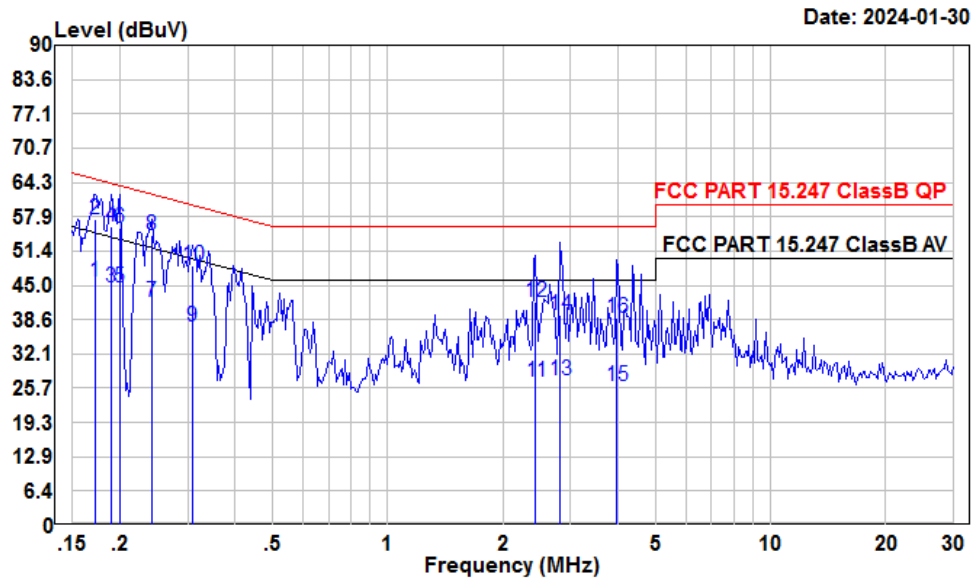
Condition: Neutral

Project : SZ1240116-03706E-RF

Tester : Macy shi

Note : BT

|    |       | Read  |       | LISN   | Cable | Limit | Over   |         |
|----|-------|-------|-------|--------|-------|-------|--------|---------|
|    | Freq  | Level | Level | Factor | Loss  | Line  | Limit  | Remark  |
|    | MHz   | dBuV  | dBuV  | dB     | dB    | dBuV  | dB     |         |
| 1  | 0.15  | 5.91  | 26.57 | 10.51  | 10.15 | 55.91 | -29.34 | Average |
| 2  | 0.15  | 15.65 | 36.31 | 10.51  | 10.15 | 65.91 | -29.60 | QP      |
| 3  | 0.22  | 2.01  | 22.85 | 10.71  | 10.13 | 52.92 | -30.07 | Average |
| 4  | 0.22  | 10.84 | 31.68 | 10.71  | 10.13 | 62.92 | -31.24 | QP      |
| 5  | 0.41  | 9.69  | 30.69 | 10.78  | 10.22 | 47.73 | -17.04 | Average |
| 6  | 0.41  | 17.75 | 38.75 | 10.78  | 10.22 | 57.73 | -18.98 | QP      |
| 7  | 1.18  | -0.94 | 19.74 | 10.62  | 10.06 | 46.00 | -26.26 | Average |
| 8  | 1.18  | 5.13  | 25.81 | 10.62  | 10.06 | 56.00 | -30.19 | QP      |
| 9  | 2.17  | -2.46 | 18.44 | 10.70  | 10.20 | 46.00 | -27.56 | Average |
| 10 | 2.17  | 1.94  | 22.84 | 10.70  | 10.20 | 56.00 | -33.16 | QP      |
| 11 | 21.83 | 1.32  | 22.26 | 10.78  | 10.16 | 50.00 | -27.74 | Average |
| 12 | 21.83 | 7.76  | 28.70 | 10.78  | 10.16 | 60.00 | -31.30 | QP      |

*For Adapter 5***AC 120V/60 Hz, Line**

Condition: Line

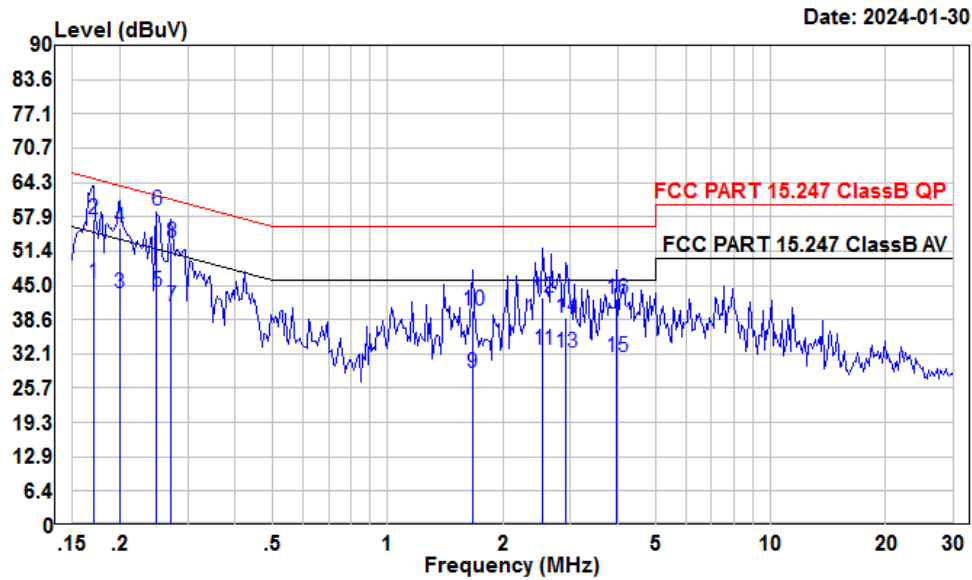
Project : SZ1240116-03706E-RF

Tester : Macy shi

Note : BT

|    | Freq | Read Level | LISN Level | LISN Factor | Cable Loss | Limit Line | Over Limit | Remark  |
|----|------|------------|------------|-------------|------------|------------|------------|---------|
|    | MHz  | dBuV       | dBuV       | dB          | dB         | dBuV       | dB         |         |
| 1  | 0.17 | 25.00      | 45.75      | 10.60       | 10.15      | 54.86      | -9.11      | Average |
| 2  | 0.17 | 36.50      | 57.25      | 10.60       | 10.15      | 64.86      | -7.61      | QP      |
| 3  | 0.19 | 23.88      | 44.59      | 10.60       | 10.11      | 54.06      | -9.47      | Average |
| 4  | 0.19 | 35.34      | 56.05      | 10.60       | 10.11      | 64.06      | -8.01      | QP      |
| 5  | 0.20 | 24.00      | 44.69      | 10.60       | 10.09      | 53.62      | -8.93      | Average |
| 6  | 0.20 | 35.00      | 55.69      | 10.60       | 10.09      | 63.62      | -7.93      | QP      |
| 7  | 0.24 | 21.02      | 41.83      | 10.62       | 10.19      | 52.04      | -10.21     | Average |
| 8  | 0.24 | 33.51      | 54.32      | 10.62       | 10.19      | 62.04      | -7.72      | QP      |
| 9  | 0.31 | 16.42      | 37.20      | 10.65       | 10.13      | 50.02      | -12.82     | Average |
| 10 | 0.31 | 27.88      | 48.66      | 10.65       | 10.13      | 60.02      | -11.36     | QP      |
| 11 | 2.44 | 6.10       | 27.05      | 10.74       | 10.21      | 46.00      | -18.95     | Average |
| 12 | 2.44 | 20.90      | 41.85      | 10.74       | 10.21      | 56.00      | -14.15     | QP      |
| 13 | 2.82 | 6.26       | 27.21      | 10.70       | 10.25      | 46.00      | -18.79     | Average |
| 14 | 2.82 | 18.45      | 39.40      | 10.70       | 10.25      | 56.00      | -16.60     | QP      |
| 15 | 3.96 | 5.30       | 26.16      | 10.60       | 10.26      | 46.00      | -19.84     | Average |
| 16 | 3.96 | 18.10      | 38.96      | 10.60       | 10.26      | 56.00      | -17.04     | QP      |

## AC 120V/60 Hz, Neutral



Condition: Neutral

Project : SZ1240116-03706E-RF

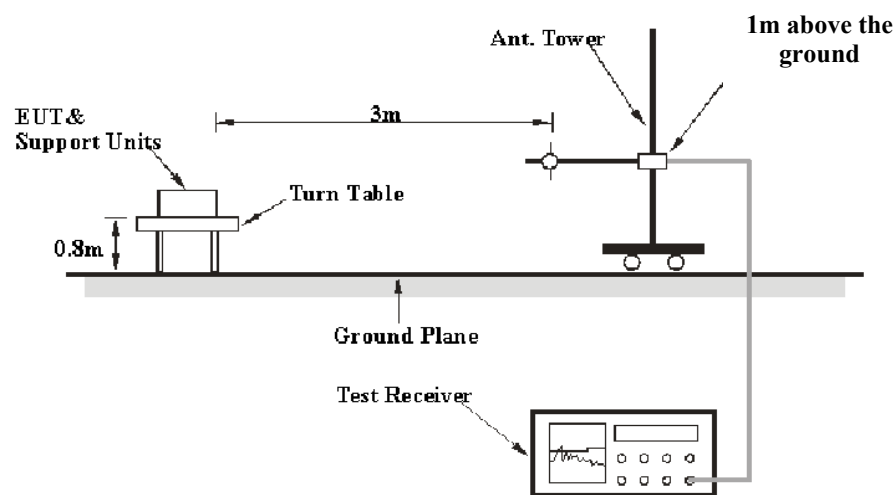
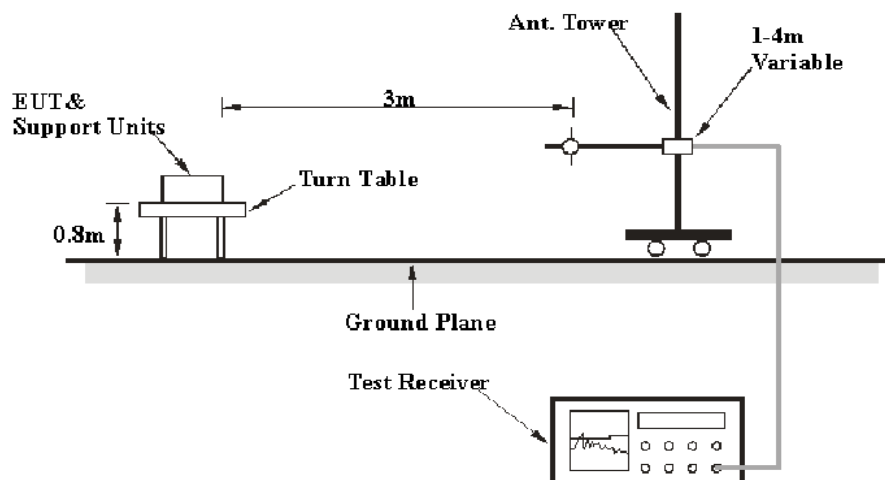
Tester : Macy shi

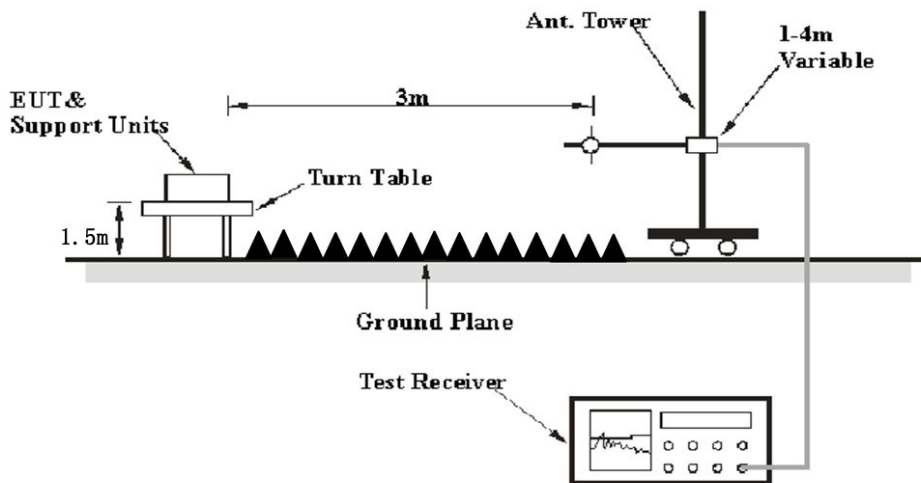
Note : BT

|    | Freq | Read Level | LISN Level | LISN Factor | Cable Loss | Limit Line | Over Limit | Remark  |
|----|------|------------|------------|-------------|------------|------------|------------|---------|
|    | MHz  | dBuV       | dBuV       | dB          | dB         | dBuV       | dB         |         |
| 1  | 0.17 | 24.76      | 45.50      | 10.59       | 10.15      | 54.94      | -9.44      | Average |
| 2  | 0.17 | 36.67      | 57.41      | 10.59       | 10.15      | 64.94      | -7.53      | QP      |
| 3  | 0.20 | 22.74      | 43.53      | 10.70       | 10.09      | 53.62      | -10.09     | Average |
| 4  | 0.20 | 34.88      | 55.67      | 10.70       | 10.09      | 63.62      | -7.95      | QP      |
| 5  | 0.25 | 22.90      | 43.83      | 10.72       | 10.21      | 51.78      | -7.95      | Average |
| 6  | 0.25 | 38.00      | 58.93      | 10.72       | 10.21      | 61.78      | -2.85      | QP      |
| 7  | 0.27 | 20.20      | 41.10      | 10.73       | 10.17      | 51.07      | -9.97      | Average |
| 8  | 0.27 | 32.00      | 52.90      | 10.73       | 10.17      | 61.07      | -8.17      | QP      |
| 9  | 1.66 | 7.87       | 28.64      | 10.67       | 10.10      | 46.00      | -17.36     | Average |
| 10 | 1.66 | 19.36      | 40.13      | 10.67       | 10.10      | 56.00      | -15.87     | QP      |
| 11 | 2.54 | 12.08      | 32.99      | 10.70       | 10.21      | 46.00      | -13.01     | Average |
| 12 | 2.54 | 21.88      | 42.79      | 10.70       | 10.21      | 56.00      | -13.21     | QP      |
| 13 | 2.92 | 11.40      | 32.36      | 10.70       | 10.26      | 46.00      | -13.64     | Average |
| 14 | 2.92 | 18.00      | 38.96      | 10.70       | 10.26      | 56.00      | -17.04     | QP      |
| 15 | 3.96 | 10.70      | 31.66      | 10.70       | 10.26      | 46.00      | -14.34     | Average |
| 16 | 3.96 | 21.60      | 42.56      | 10.70       | 10.26      | 56.00      | -13.44     | QP      |

**FCC §15.205, §15.209 & §15.247(d) - RADIATED EMISSIONS****Applicable Standard**

FCC §15.205; §15.209; §15.247(d)

**EUT Setup****9 kHz-30MHz:****30MHz-1GHz:**

**Above 1GHz:**

The radiated emission tests were performed in the 3 meters, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209 and FCC 15.247 limits.

**EMI Test Receiver & Spectrum Analyzer Setup**

The EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

| Frequency Range   | RBW     | Video B/W | IF B/W  | Measurement |
|-------------------|---------|-----------|---------|-------------|
| 9 kHz – 150 kHz   | /       | /         | 200 Hz  | QP          |
|                   | 300 Hz  | 1 kHz     | /       | PK          |
| 150 kHz – 30 MHz  | /       | /         | 9 kHz   | QP          |
|                   | 10 kHz  | 30 kHz    | /       | PK          |
| 30 MHz – 1000 MHz | /       | /         | 120 kHz | QP          |
|                   | 100 kHz | 300 kHz   | /       | PK          |
| Above 1 GHz       | 1MHz    | 3 MHz     | /       | PK          |
|                   | 1MHz    | 10 Hz     | /       | AV          |

**Test Procedure**

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All final data was recorded in Quasi-peak detection mode except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, average detection modes for frequency bands 9–90 kHz and 110–490 kHz, peak and average detection modes for frequencies above 1 GHz.

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

All emissions under the average limit and under the noise floor have not recorded in the report.

## Factor & Over Limit/Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

$$\text{Factor} = \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Over Limit/Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

$$\begin{aligned}\text{Over Limit/Margin} &= \text{Level/Corrected Amplitude} - \text{Limit} \\ \text{Level / Corrected Amplitude} &= \text{Read Level} + \text{Factor}\end{aligned}$$

## Test Data

### Environmental Conditions

|                    |            |
|--------------------|------------|
| Temperature:       | 22~25.1 °C |
| Relative Humidity: | 50~54 %    |
| ATM Pressure:      | 101.0 kPa  |

*The testing was performed by Anson Su on 2024-01-29 and 2024-01-30 for below 1GHz and Tyler Wu on 2024-02-04 for above 1GHz.*

*Test mode: Transmitting*

**9 kHz-30MHz:** *(Maximum output power mode,  $\pi/4$ -DQPSK High Channel)*

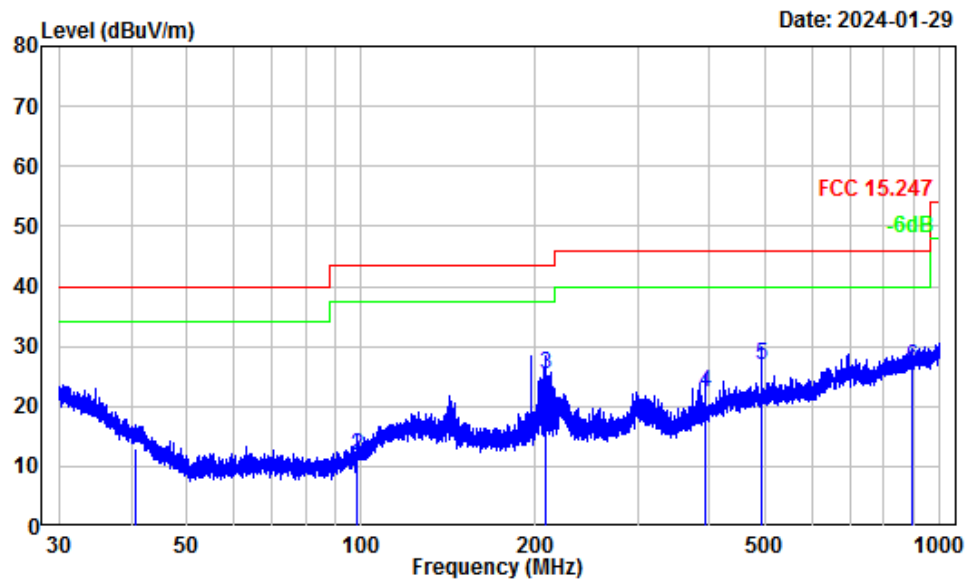
*Note: The data of 9kHz-30 MHz test is below the 20 dB limit or noise floor which is not recorded*

30MHz-1GHz: (Maximum output power mode,  $\pi/4$ -DQPSK High Channel)

Note: When the test result of peak was less than the limit of QP/Average more than 6dB, just peak value were recorded.

For Adapter 1

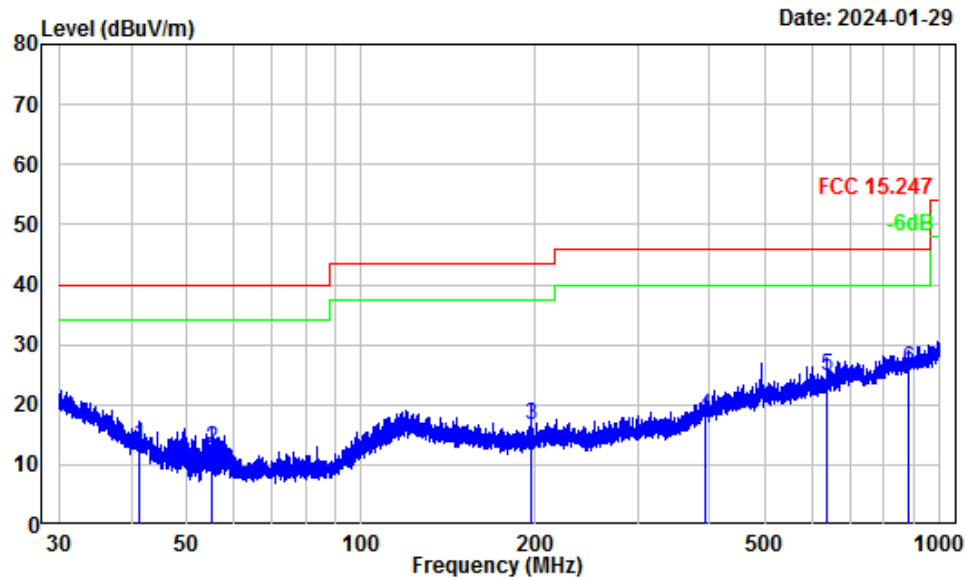
Horizontal



Site : chamber  
Condition : 3m Horizontal  
Project Number: SZ1240116-03706E-RF  
Note : BT  
Tester : Anson Su

| Freq Factor |        | Read Level |        | Limit  | Over  | Remark    |
|-------------|--------|------------|--------|--------|-------|-----------|
| MHz         | dB/m   | dBuV       | dBuV/m | dBuV/m | Limit |           |
| 1           | 40.58  | -10.75     | 23.67  | 12.92  | 40.00 | -27.08 QP |
| 2           | 98.27  | -14.22     | 25.93  | 11.71  | 43.50 | -31.79 QP |
| 3           | 208.03 | -11.16     | 36.55  | 25.39  | 43.50 | -18.11 QP |
| 4           | 393.30 | -7.69      | 30.10  | 22.41  | 46.00 | -23.59 QP |
| 5           | 491.39 | -5.15      | 32.03  | 26.88  | 46.00 | -19.12 QP |
| 6           | 898.57 | 0.99       | 25.45  | 26.44  | 46.00 | -19.56 QP |

Vertical

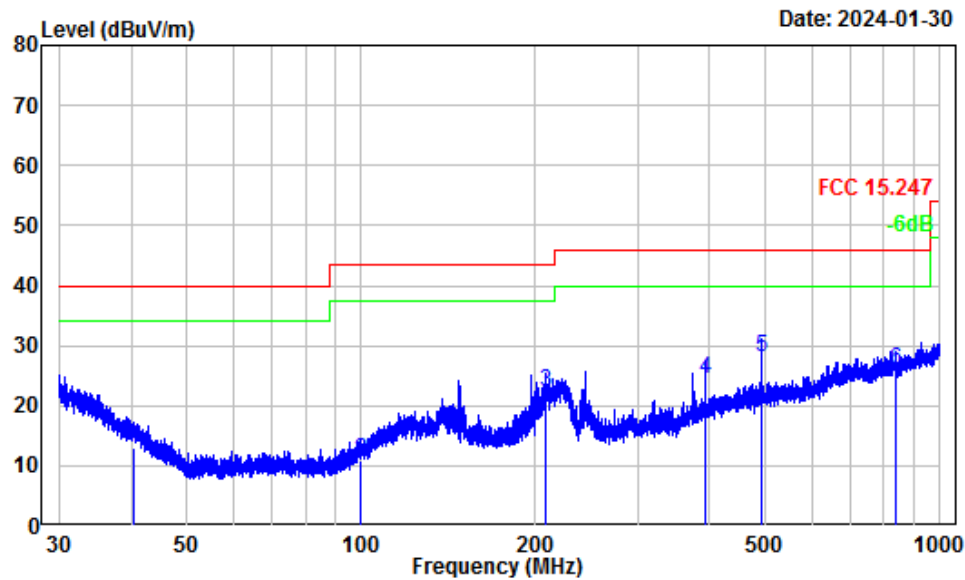


Site : chamber  
Condition : 3m Vertical  
Project Number: SZ1240116-03706E-RF  
Note : BT  
Tester : Anson Su

|   | Freq Factor |        | Read Level | Limit Level | Over Limit | Remark    |
|---|-------------|--------|------------|-------------|------------|-----------|
|   | MHz         | dB/m   | dBuV       | dBuV/m      | dBuV/m     | dB        |
| 1 | 41.35       | -12.66 | 25.94      | 13.28       | 40.00      | -26.72 QP |
| 2 | 55.27       | -17.54 | 30.30      | 12.76       | 40.00      | -27.24 QP |
| 3 | 196.60      | -12.46 | 29.20      | 16.74       | 43.50      | -26.76 QP |
| 4 | 393.30      | -7.91  | 26.07      | 18.16       | 46.00      | -27.84 QP |
| 5 | 639.77      | -3.18  | 28.04      | 24.86       | 46.00      | -21.14 QP |
| 6 | 884.12      | 0.38   | 25.69      | 26.07       | 46.00      | -19.93 QP |

For Adapter 2

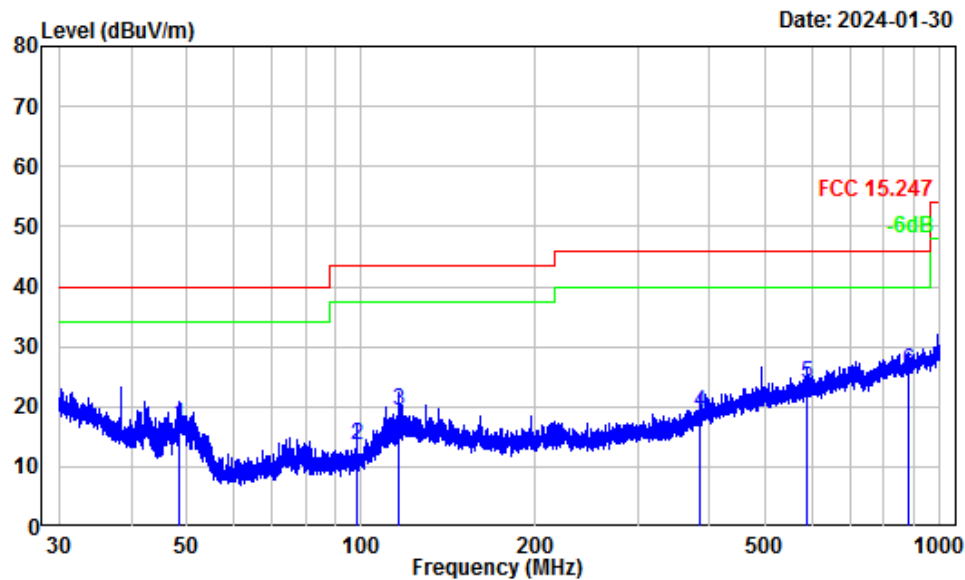
Horizontal



Site : chamber  
Condition : 3m Horizontal  
Project Number: SZ1240116-03706E-RF  
Note : BT  
Tester : Anson Su

|   | Freq Factor |        | Read Level | Limit | Over  | Remark    |
|---|-------------|--------|------------|-------|-------|-----------|
|   | MHz         | dB/m   | dBuV       | Line  | Limit |           |
| 1 | 40.38       | -10.63 | 23.67      | 13.04 | 40.00 | -26.96 QP |
| 2 | 100.01      | -13.73 | 24.58      | 10.85 | 43.50 | -32.65 QP |
| 3 | 207.85      | -11.16 | 33.47      | 22.31 | 43.50 | -21.19 QP |
| 4 | 393.30      | -7.69  | 32.15      | 24.46 | 46.00 | -21.54 QP |
| 5 | 492.47      | -5.14  | 33.34      | 28.20 | 46.00 | -17.80 QP |
| 6 | 837.71      | 0.01   | 25.99      | 26.00 | 46.00 | -20.00 QP |

Vertical

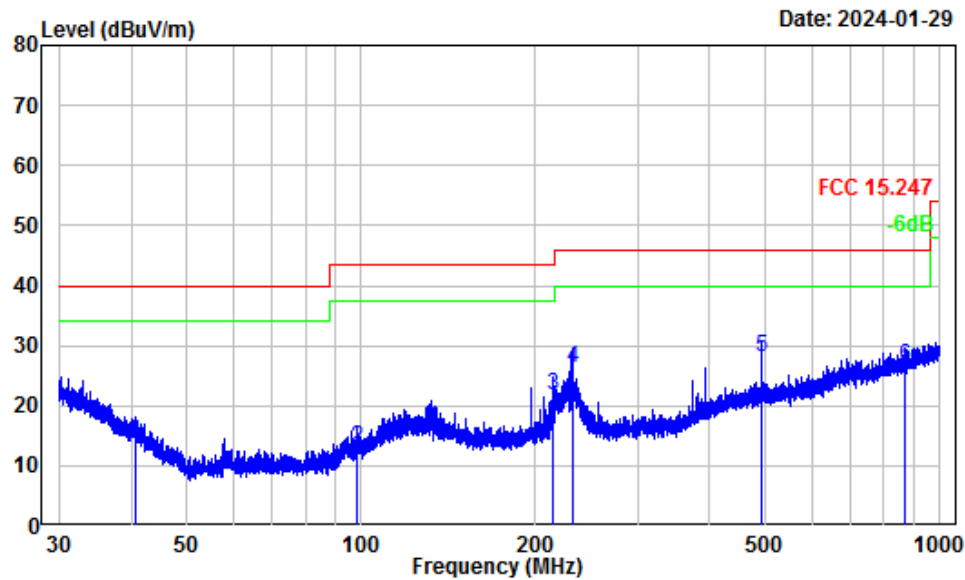


Site : chamber  
Condition : 3m Vertical  
Project Number: SZ1240116-03706E-RF  
Note : BT  
Tester : Anson Su

|   | Freq Factor |        | Read Level | Limit Level | Over Limit | Remark    |
|---|-------------|--------|------------|-------------|------------|-----------|
|   | MHz         | dB/m   | dBuV       | dBuV/m      | dBuV/m     | dB        |
| 1 | 48.59       | -16.70 | 33.66      | 16.96       | 40.00      | -23.04 QP |
| 2 | 98.31       | -15.59 | 29.18      | 13.59       | 43.50      | -29.91 QP |
| 3 | 116.18      | -11.35 | 30.64      | 19.29       | 43.50      | -24.21 QP |
| 4 | 385.79      | -8.30  | 27.21      | 18.91       | 46.00      | -27.09 QP |
| 5 | 589.94      | -4.54  | 28.36      | 23.82       | 46.00      | -22.18 QP |
| 6 | 880.63      | 0.34   | 25.55      | 25.89       | 46.00      | -20.11 QP |

For Adapter 3

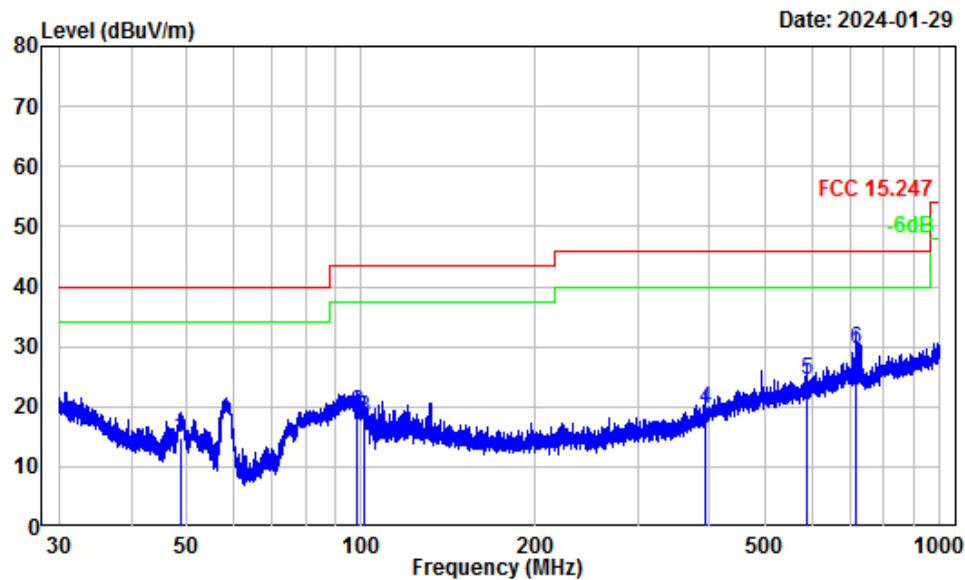
Horizontal



Site : chamber  
Condition : 3m Horizontal  
Project Number: SZ1240116-03706E-RF  
Note : BT  
Tester : Anson Su

|   | Freq Factor |        | Read Level | Level  | Limit  | Over   | Remark |
|---|-------------|--------|------------|--------|--------|--------|--------|
|   | MHz         | dB/m   | dBuV       | dBuV/m | dBuV/m | Limit  |        |
| 1 | 40.67       | -10.82 | 24.83      | 14.01  | 40.00  | -25.99 | QP     |
| 2 | 98.31       | -14.21 | 27.08      | 12.87  | 43.50  | -30.63 | QP     |
| 3 | 214.33      | -11.27 | 32.86      | 21.59  | 43.50  | -21.91 | QP     |
| 4 | 231.31      | -11.55 | 37.95      | 26.40  | 46.00  | -19.60 | QP     |
| 5 | 492.47      | -5.14  | 33.11      | 27.97  | 46.00  | -18.03 | QP     |
| 6 | 867.61      | 0.48   | 26.11      | 26.59  | 46.00  | -19.41 | QP     |

Vertical

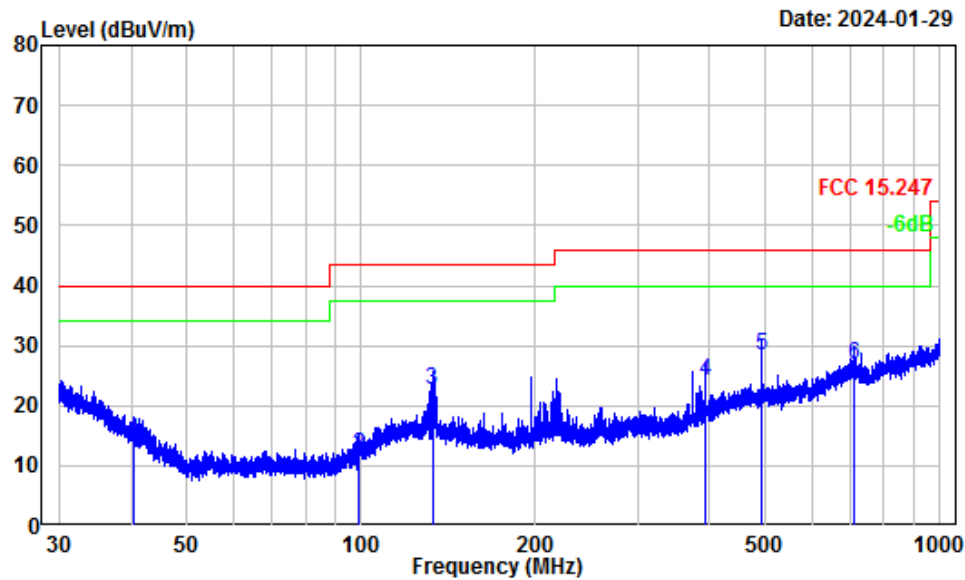


Site : chamber  
Condition : 3m Vertical  
Project Number: SZ1240116-03706E-RF  
Note : BT  
Tester : Anson Su

|   | Freq Factor |        | Read Level | Limit Level | Over Limit | Remark    |
|---|-------------|--------|------------|-------------|------------|-----------|
|   | MHz         | dB/m   | dBuV       | dBuV/m      | dBuV/m     | dB        |
| 1 | 48.61       | -16.71 | 31.59      | 14.88       | 40.00      | -25.12 QP |
| 2 | 98.31       | -15.59 | 34.67      | 19.08       | 43.50      | -24.42 QP |
| 3 | 101.02      | -14.93 | 33.00      | 18.07       | 43.50      | -25.43 QP |
| 4 | 393.30      | -7.91  | 27.57      | 19.66       | 46.00      | -26.34 QP |
| 5 | 589.94      | -4.54  | 28.95      | 24.41       | 46.00      | -21.59 QP |
| 6 | 716.68      | -2.00  | 31.48      | 29.48       | 46.00      | -16.52 QP |

For Adapter 4

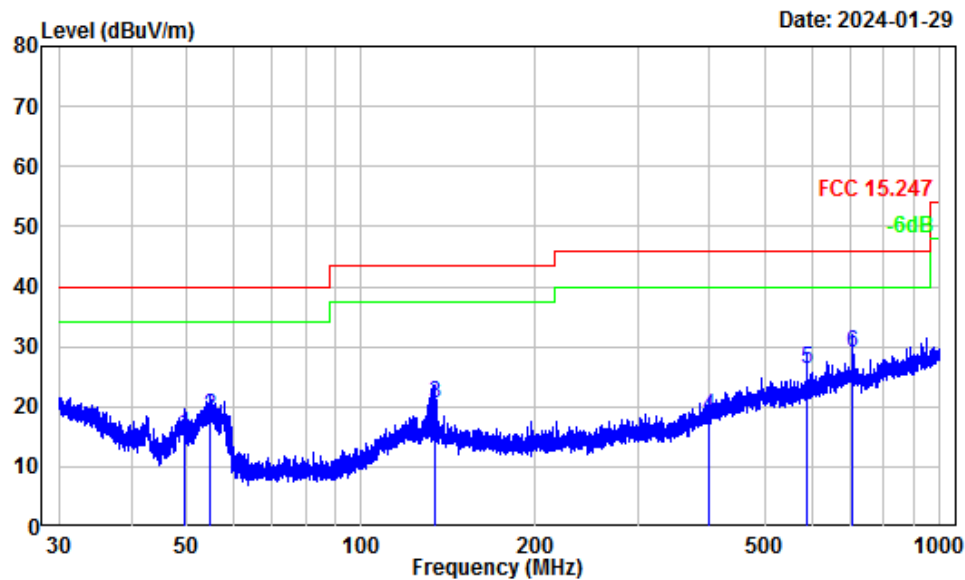
Horizontal



Site : chamber  
Condition : 3m Horizontal  
Project Number: SZ1240116-03706E-RF  
Note : BT  
Tester : Anson Su

|             |        | Read   |       | Limit  | Over   | Remark    |
|-------------|--------|--------|-------|--------|--------|-----------|
| Freq Factor |        | Level  | Level | Line   | Limit  |           |
|             | MHz    | dB/m   | dBuV  | dBuV/m | dBuV/m | dB        |
| 1           | 40.52  | -10.72 | 24.80 | 14.08  | 40.00  | -25.92 QP |
| 2           | 98.66  | -14.11 | 25.87 | 11.76  | 43.50  | -31.74 QP |
| 3           | 132.63 | -10.40 | 32.99 | 22.59  | 43.50  | -20.91 QP |
| 4           | 393.30 | -7.69  | 31.87 | 24.18  | 46.00  | -21.82 QP |
| 5           | 491.82 | -5.14  | 33.38 | 28.24  | 46.00  | -17.76 QP |
| 6           | 713.23 | -1.55  | 28.38 | 26.83  | 46.00  | -19.17 QP |

Vertical

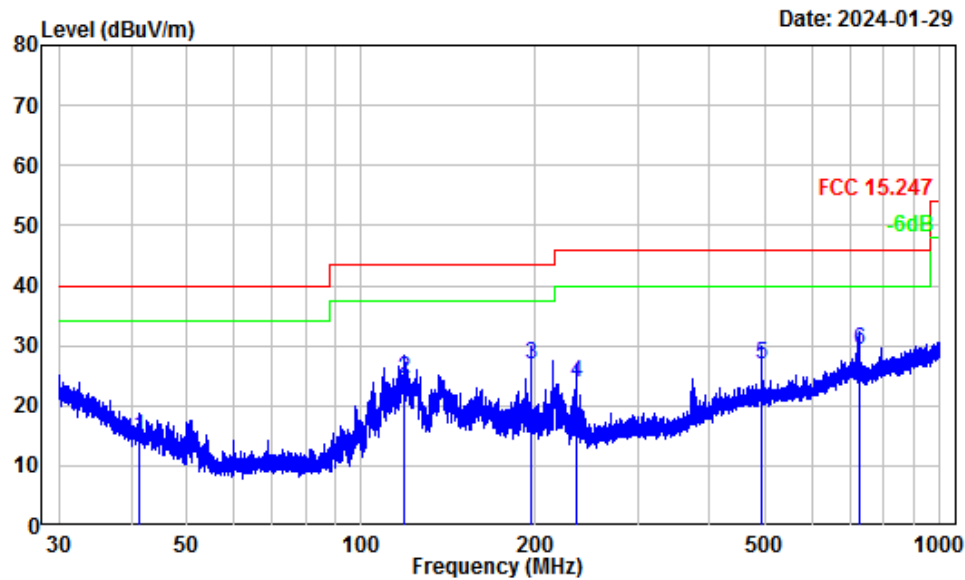


Site : chamber  
Condition : 3m Vertical  
Project Number: SZ1240116-03706E-RF  
Note : BT  
Tester : Anson Su

|   | Freq Factor |        | Read Level | Limit Level | Over Limit | Remark    |
|---|-------------|--------|------------|-------------|------------|-----------|
|   | MHz         | dB/m   | dBuV       | dBuV/m      | dBuV/m     | dB        |
| 1 | 49.38       | -17.13 | 32.64      | 15.51       | 40.00      | -24.49 QP |
| 2 | 54.83       | -17.53 | 35.84      | 18.31       | 40.00      | -21.69 QP |
| 3 | 133.91      | -10.99 | 31.55      | 20.56       | 43.50      | -22.94 QP |
| 4 | 397.98      | -7.67  | 26.10      | 18.43       | 46.00      | -27.57 QP |
| 5 | 589.94      | -4.54  | 30.69      | 26.15       | 46.00      | -19.85 QP |
| 6 | 707.94      | -1.95  | 30.85      | 28.90       | 46.00      | -17.10 QP |

For Adapter 5

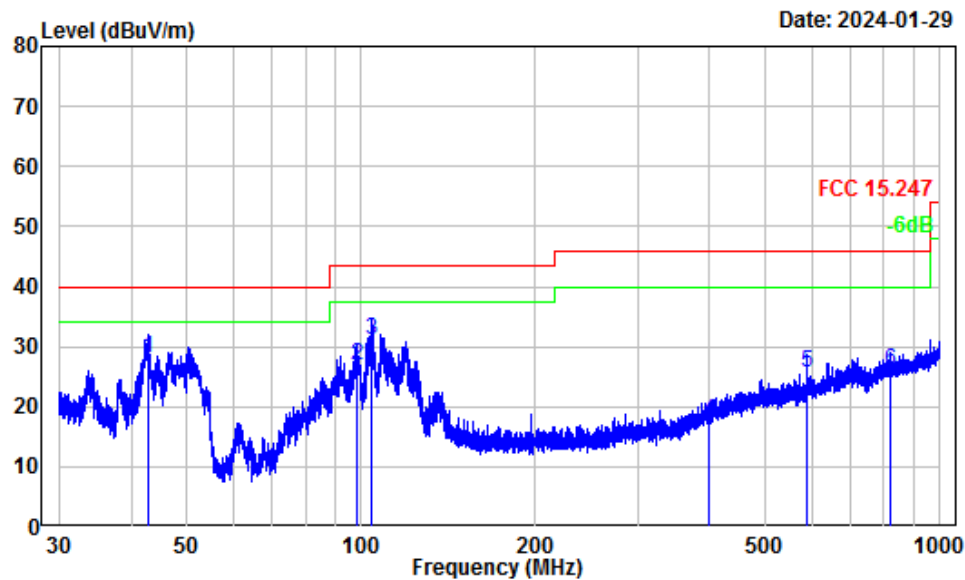
Horizontal



Site : chamber  
Condition : 3m Horizontal  
Project Number: SZ1240116-03706E-RF  
Note : BT  
Tester : Anson Su

|   | Freq Factor |        | Read Level | Level  | Limit Line | Over Limit | Remark |
|---|-------------|--------|------------|--------|------------|------------|--------|
|   | MHz         | dB/m   | dBuV       | dBuV/m | dBuV/m     | dB         |        |
| 1 | 41.22       | -11.17 | 25.90      | 14.73  | 40.00      | -25.27     | QP     |
| 2 | 118.76      | -10.45 | 35.00      | 24.55  | 43.50      | -18.95     | QP     |
| 3 | 196.60      | -11.47 | 38.32      | 26.85  | 43.50      | -16.65     | QP     |
| 4 | 235.09      | -11.60 | 35.47      | 23.87  | 46.00      | -22.13     | QP     |
| 5 | 492.68      | -5.14  | 32.14      | 27.00  | 46.00      | -19.00     | QP     |
| 6 | 727.76      | -1.60  | 30.89      | 29.29  | 46.00      | -16.71     | QP     |

Vertical



Site : chamber  
Condition : 3m Vertical  
Project Number: SZ1240116-03706E-RF  
Note : BT  
Tester : Anson Su

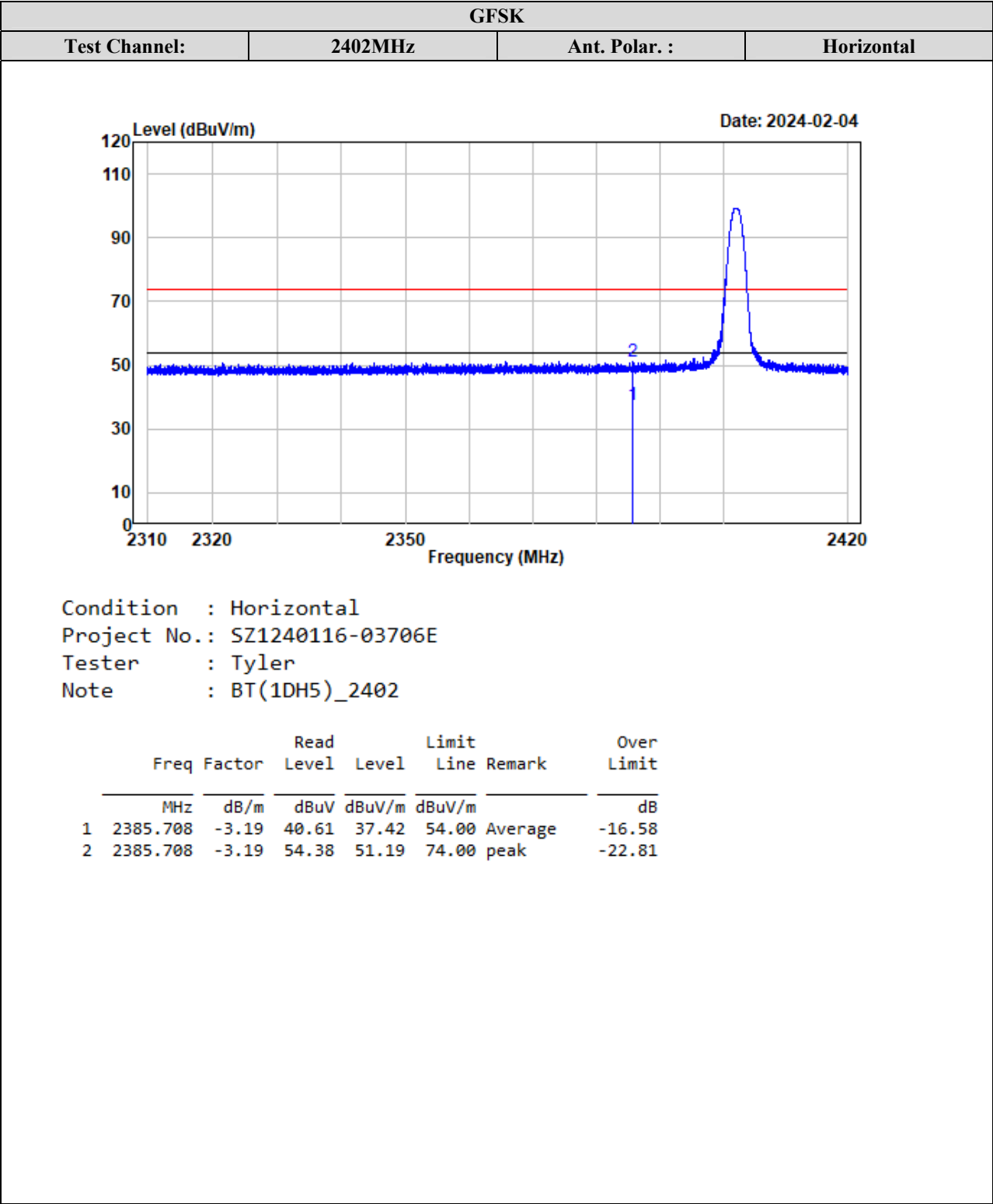
|   | Freq Factor |        | Read Level | Limit Level | Over Limit | Remark    |
|---|-------------|--------|------------|-------------|------------|-----------|
|   | MHz         | dB/m   | dBuV       | dBuV/m      | dBuV/m     | dB        |
| 1 | 42.71       | -13.43 | 41.40      | 27.97       | 40.00      | -12.03 QP |
| 2 | 98.27       | -15.60 | 42.53      | 26.93       | 43.50      | -16.57 QP |
| 3 | 104.03      | -14.06 | 45.28      | 31.22       | 43.50      | -12.28 QP |
| 4 | 399.38      | -7.59  | 25.06      | 17.47       | 46.00      | -28.53 QP |
| 5 | 589.94      | -4.54  | 30.23      | 25.69       | 46.00      | -20.31 QP |
| 6 | 820.27      | -0.43  | 26.26      | 25.83       | 46.00      | -20.17 QP |

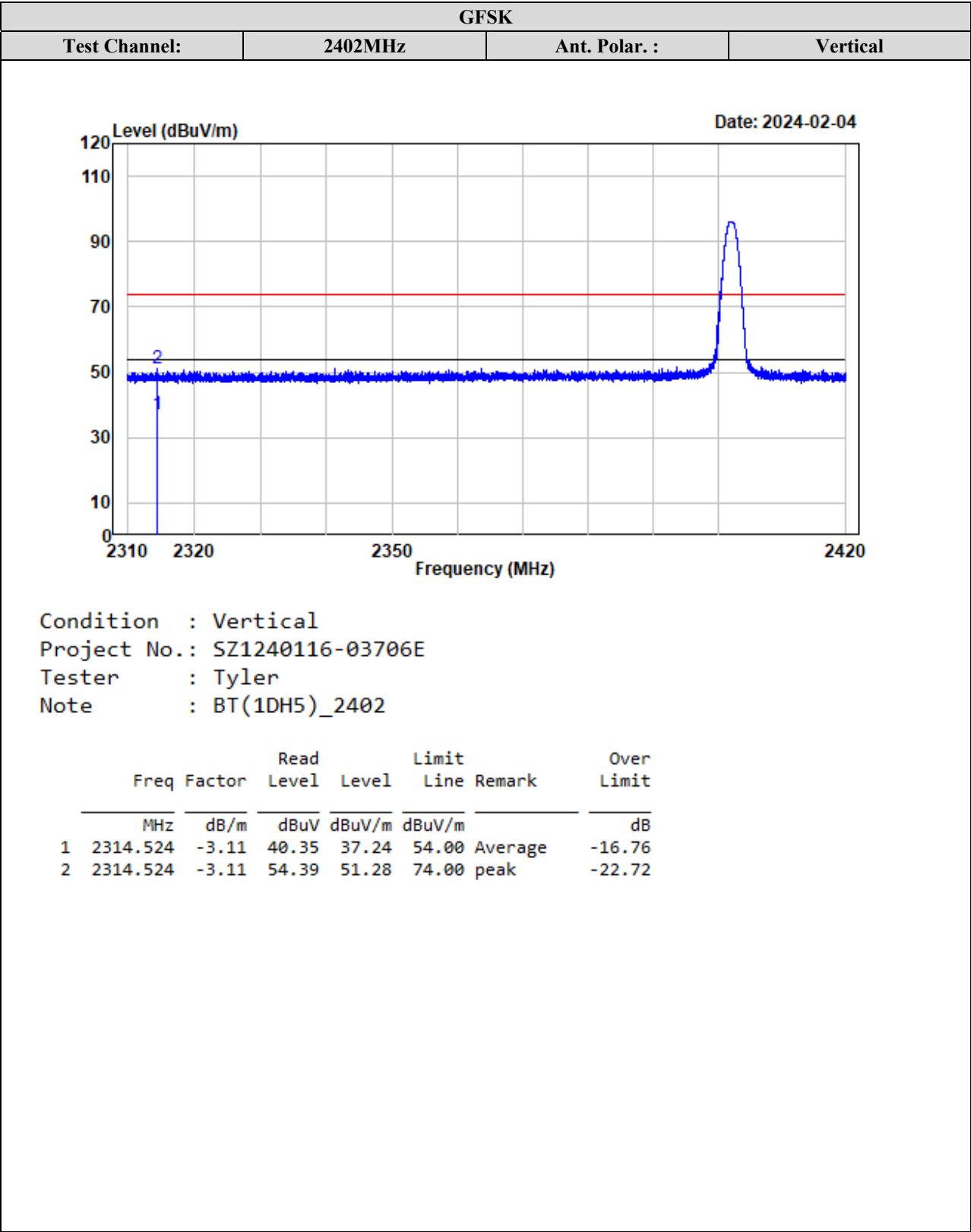
**Above 1GHz:**

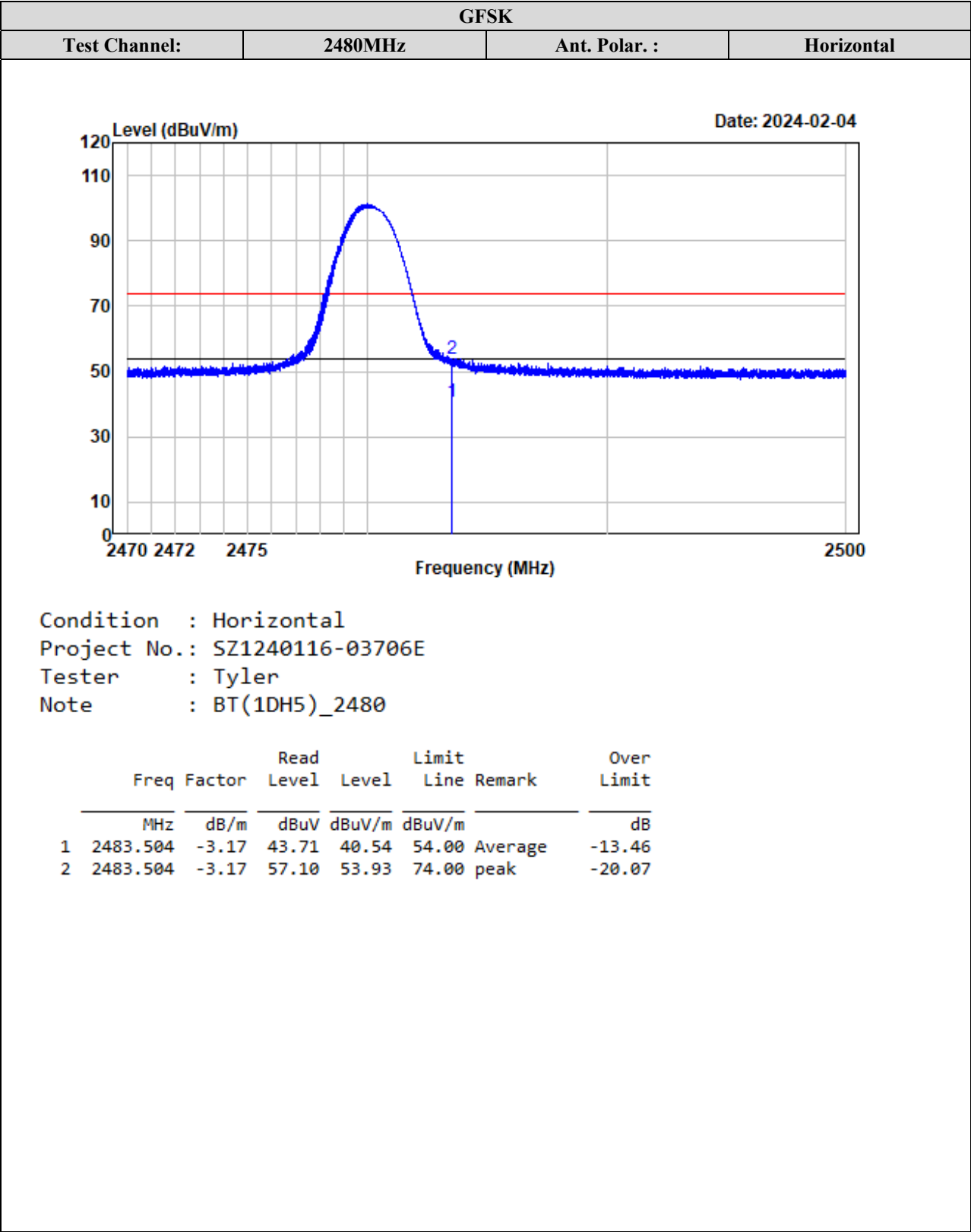
| Frequency<br>(MHz)     | Receiver          |        | Polar<br>(H/V) | Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|------------------------|-------------------|--------|----------------|------------------|------------------------------------|-------------------|----------------|
|                        | Reading<br>(dBμV) | PK/Ave |                |                  |                                    |                   |                |
| GFSK                   |                   |        |                |                  |                                    |                   |                |
| Low Channel 2402MHz    |                   |        |                |                  |                                    |                   |                |
| 4804.00                | 57.07             | PK     | H              | 2.42             | 59.49                              | 74                | -14.51         |
| 4804.00                | 48.58             | AV     | H              | 2.42             | 51.00                              | 54                | -3.00          |
| 4804.00                | 56.89             | PK     | V              | 2.42             | 59.31                              | 74                | -14.69         |
| 4804.00                | 48.31             | AV     | V              | 2.42             | 50.73                              | 54                | -3.27          |
| Middle Channel 2441MHz |                   |        |                |                  |                                    |                   |                |
| 4882.00                | 58.14             | PK     | H              | 2.58             | 60.72                              | 74                | -13.28         |
| 4882.00                | 48.36             | AV     | H              | 2.58             | 50.94                              | 54                | -3.06          |
| 4882.00                | 57.34             | PK     | V              | 2.58             | 59.92                              | 74                | -14.08         |
| 4882.00                | 48.08             | AV     | V              | 2.58             | 50.66                              | 54                | -3.34          |
| High Channel 2480MHz   |                   |        |                |                  |                                    |                   |                |
| 4960.00                | 58.97             | PK     | H              | 2.68             | 61.65                              | 74                | -12.35         |
| 4960.00                | 47.95             | AV     | H              | 2.68             | 50.63                              | 54                | -3.37          |
| 4960.00                | 57.36             | PK     | V              | 2.68             | 60.04                              | 74                | -13.96         |
| 4960.00                | 46.12             | AV     | V              | 2.68             | 48.80                              | 54                | -5.20          |
| π/4-DQPSK              |                   |        |                |                  |                                    |                   |                |
| Low Channel 2402MHz    |                   |        |                |                  |                                    |                   |                |
| 4804.00                | 62.08             | PK     | H              | 2.42             | 64.50                              | 74                | -9.50          |
| 4804.00                | 48.49             | AV     | H              | 2.42             | 50.91                              | 54                | -3.09          |
| 4804.00                | 61.34             | PK     | V              | 2.42             | 63.76                              | 74                | -10.24         |
| 4804.00                | 48.25             | AV     | V              | 2.42             | 50.67                              | 54                | -3.33          |
| Middle Channel 2441MHz |                   |        |                |                  |                                    |                   |                |
| 4882.00                | 62.03             | PK     | H              | 2.58             | 64.61                              | 74                | -9.39          |
| 4882.00                | 48.37             | AV     | H              | 2.58             | 50.95                              | 54                | -3.05          |
| 4882.00                | 61.31             | PK     | V              | 2.58             | 63.89                              | 74                | -10.11         |
| 4882.00                | 48.23             | AV     | V              | 2.58             | 50.81                              | 54                | -3.19          |
| High Channel 2480MHz   |                   |        |                |                  |                                    |                   |                |
| 4960.00                | 60.91             | PK     | H              | 2.68             | 63.59                              | 74                | -10.41         |
| 4960.00                | 48.02             | AV     | H              | 2.68             | 50.70                              | 54                | -3.30          |
| 4960.00                | 59.28             | PK     | V              | 2.68             | 61.96                              | 74                | -12.04         |
| 4960.00                | 47.13             | AV     | V              | 2.68             | 49.81                              | 54                | -4.19          |

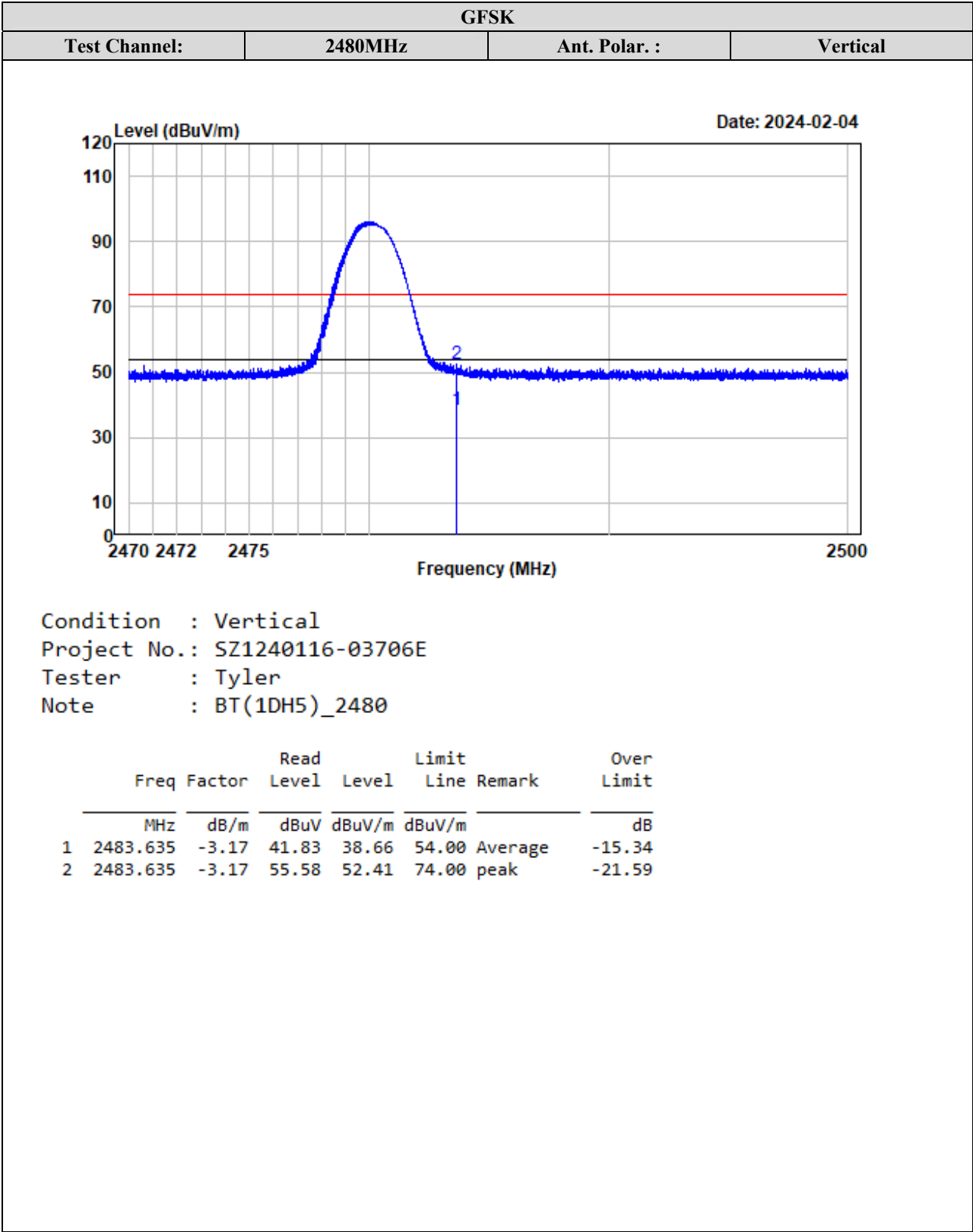
| Frequency<br>(MHz)     | Receiver          |        | Polar<br>(H/V) | Factor<br>(dB/m) | Corrected<br>Amplitude<br>(dBμV/m) | Limit<br>(dBμV/m) | Margin<br>(dB) |
|------------------------|-------------------|--------|----------------|------------------|------------------------------------|-------------------|----------------|
|                        | Reading<br>(dBμV) | PK/Ave |                |                  |                                    |                   |                |
| 8DPSK                  |                   |        |                |                  |                                    |                   |                |
| Low Channel 2402MHz    |                   |        |                |                  |                                    |                   |                |
| 4804.00                | 49.49             | PK     | H              | 2.42             | 51.91                              | 74                | -22.09         |
| 4804.00                | 36.82             | AV     | H              | 2.42             | 39.24                              | 54                | -14.76         |
| 4804.00                | 50.13             | PK     | V              | 2.42             | 52.55                              | 74                | -21.45         |
| 4804.00                | 37.24             | AV     | V              | 2.42             | 39.66                              | 54                | -14.34         |
| Middle Channel 2441MHz |                   |        |                |                  |                                    |                   |                |
| 4882.00                | 50.21             | PK     | H              | 2.58             | 52.79                              | 74                | -21.21         |
| 4882.00                | 38.09             | AV     | H              | 2.58             | 40.67                              | 54                | -13.33         |
| 4882.00                | 51.92             | PK     | V              | 2.58             | 54.50                              | 74                | -19.50         |
| 4882.00                | 39.45             | AV     | V              | 2.58             | 42.03                              | 54                | -11.97         |
| High Channel 2480MHz   |                   |        |                |                  |                                    |                   |                |
| 4960.00                | 51.39             | PK     | H              | 2.68             | 54.07                              | 74                | -19.93         |
| 4960.00                | 39.51             | AV     | H              | 2.68             | 42.19                              | 54                | -11.81         |
| 4960.00                | 50.82             | PK     | V              | 2.68             | 53.50                              | 74                | -20.50         |
| 4960.00                | 38.65             | AV     | V              | 2.68             | 41.33                              | 54                | -12.67         |

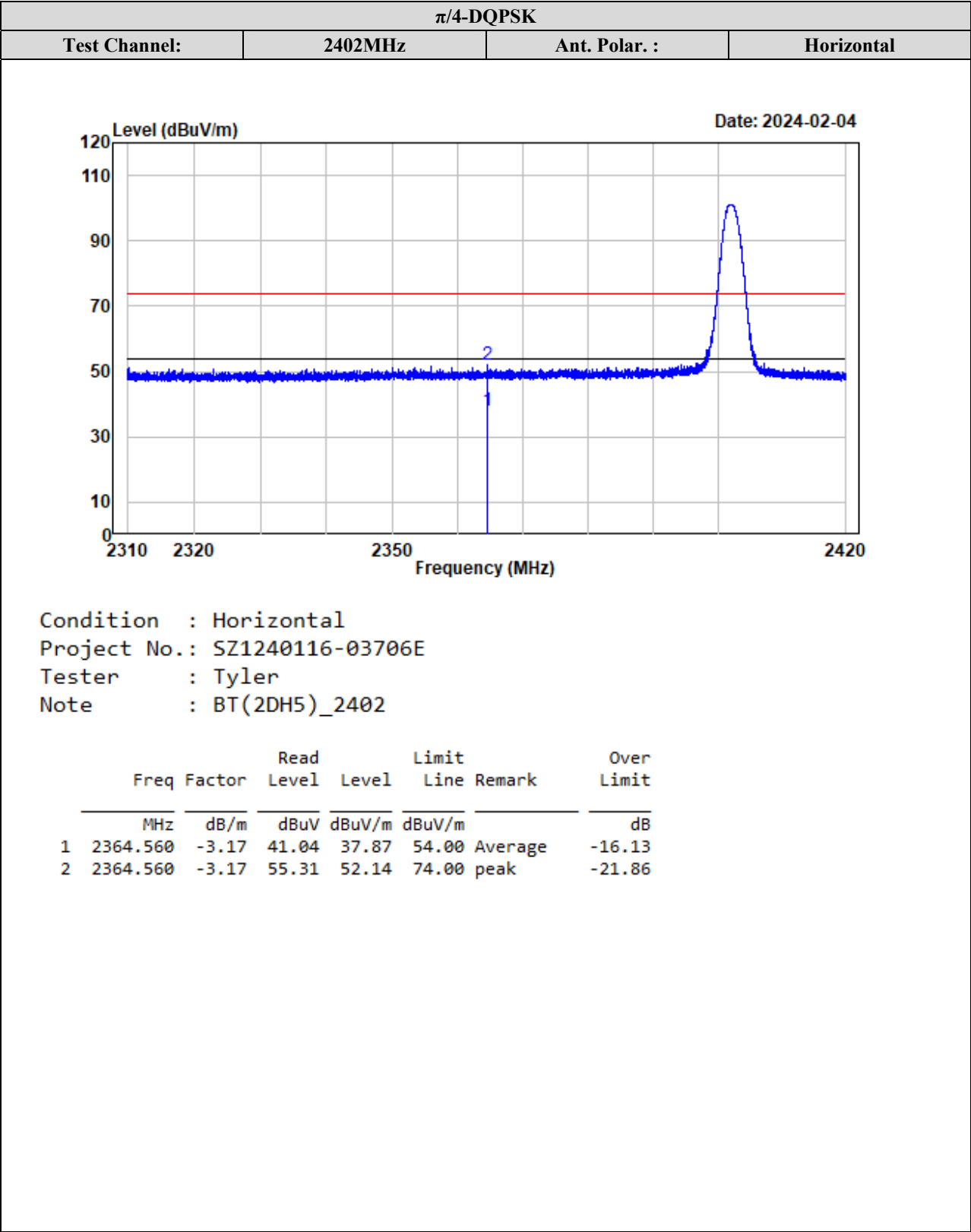
Test plots for Band Edge Measurements (Radiated):

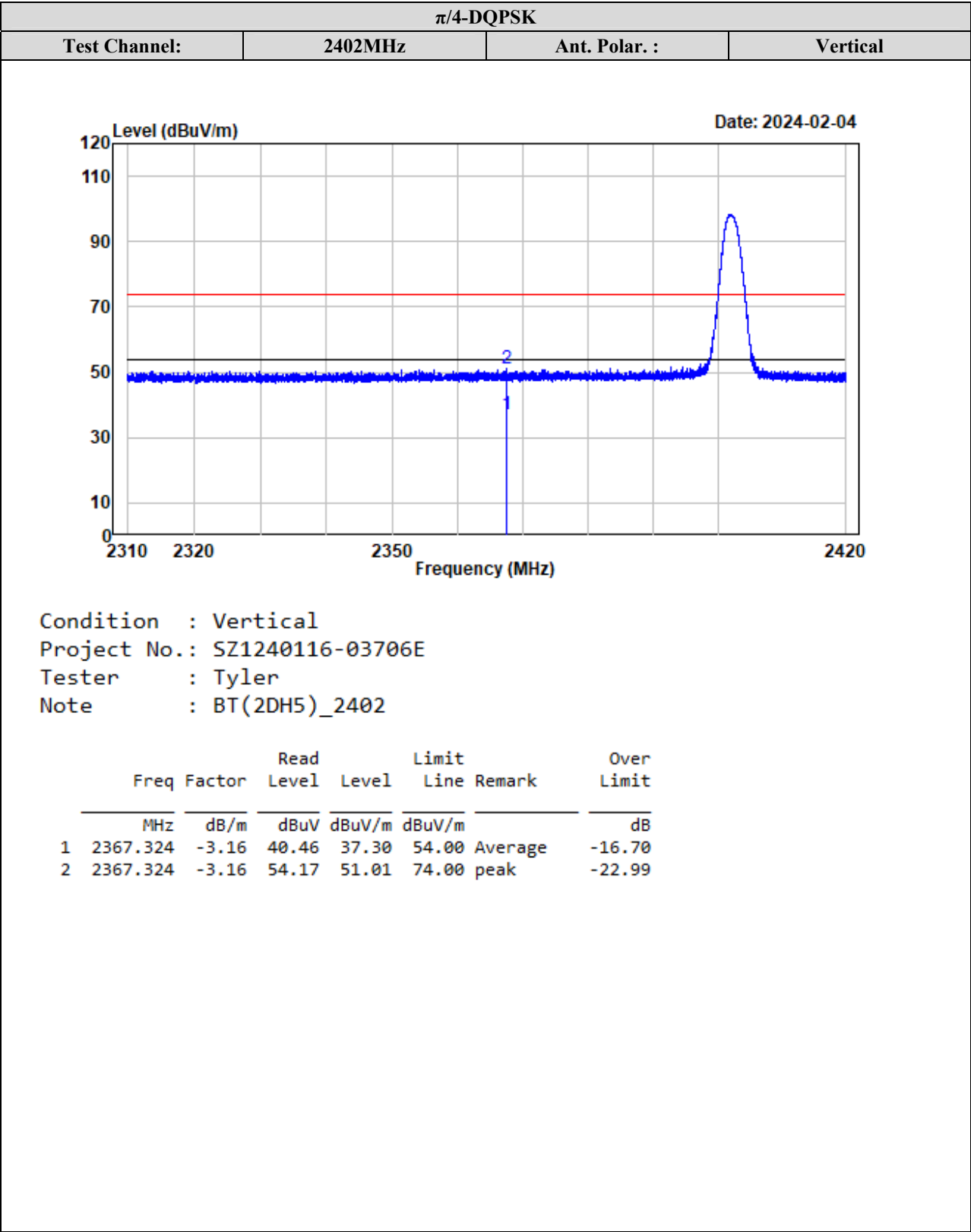


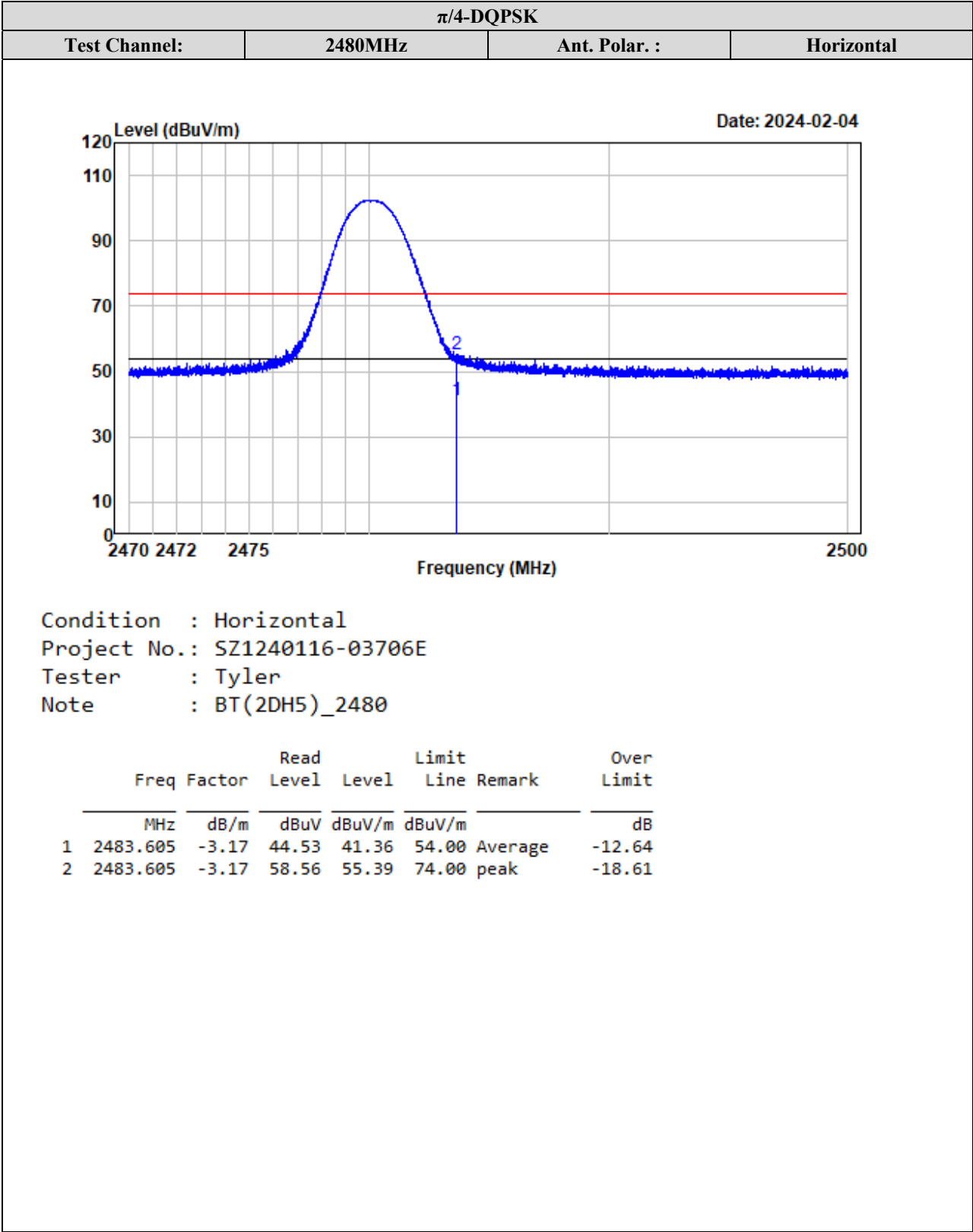


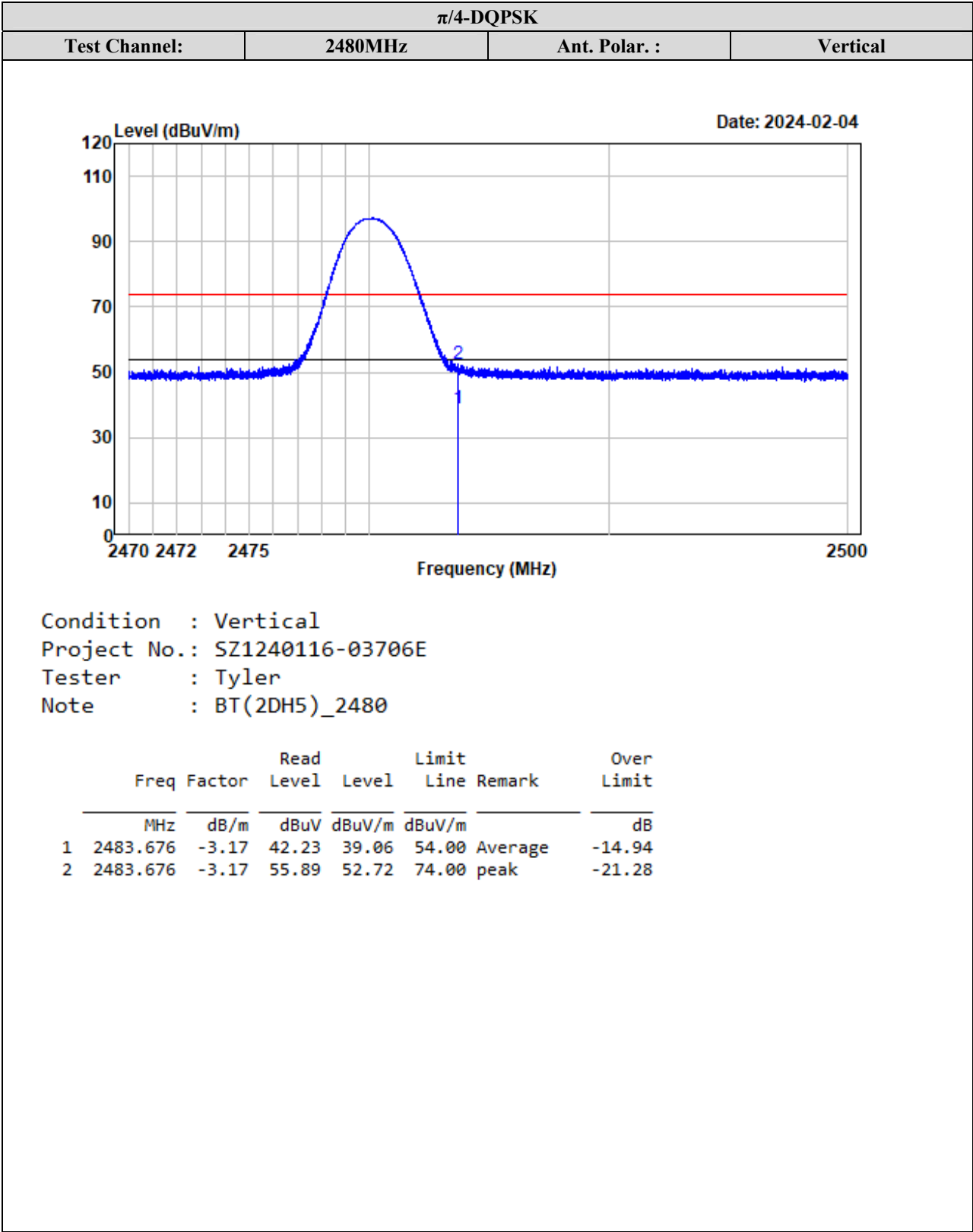


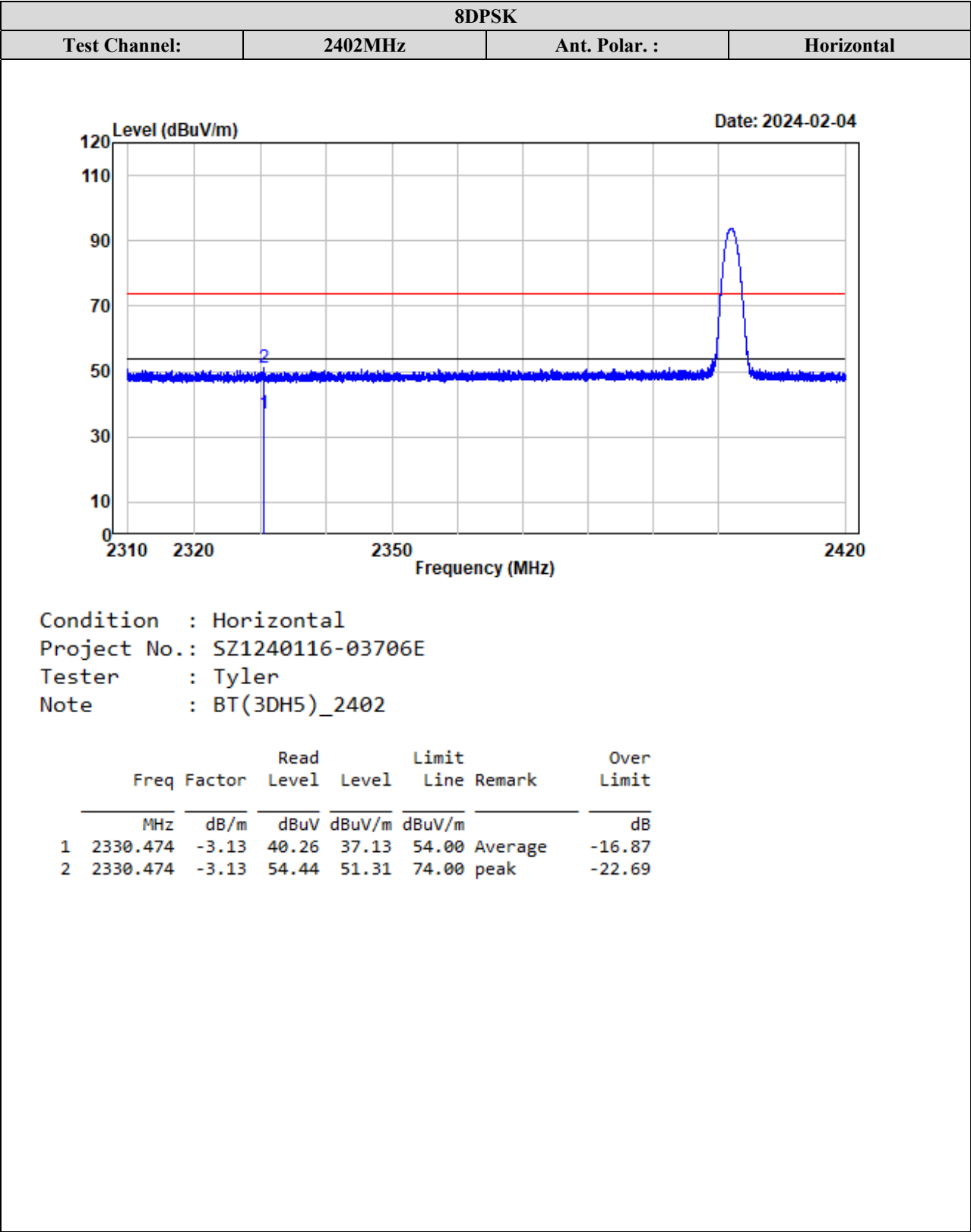


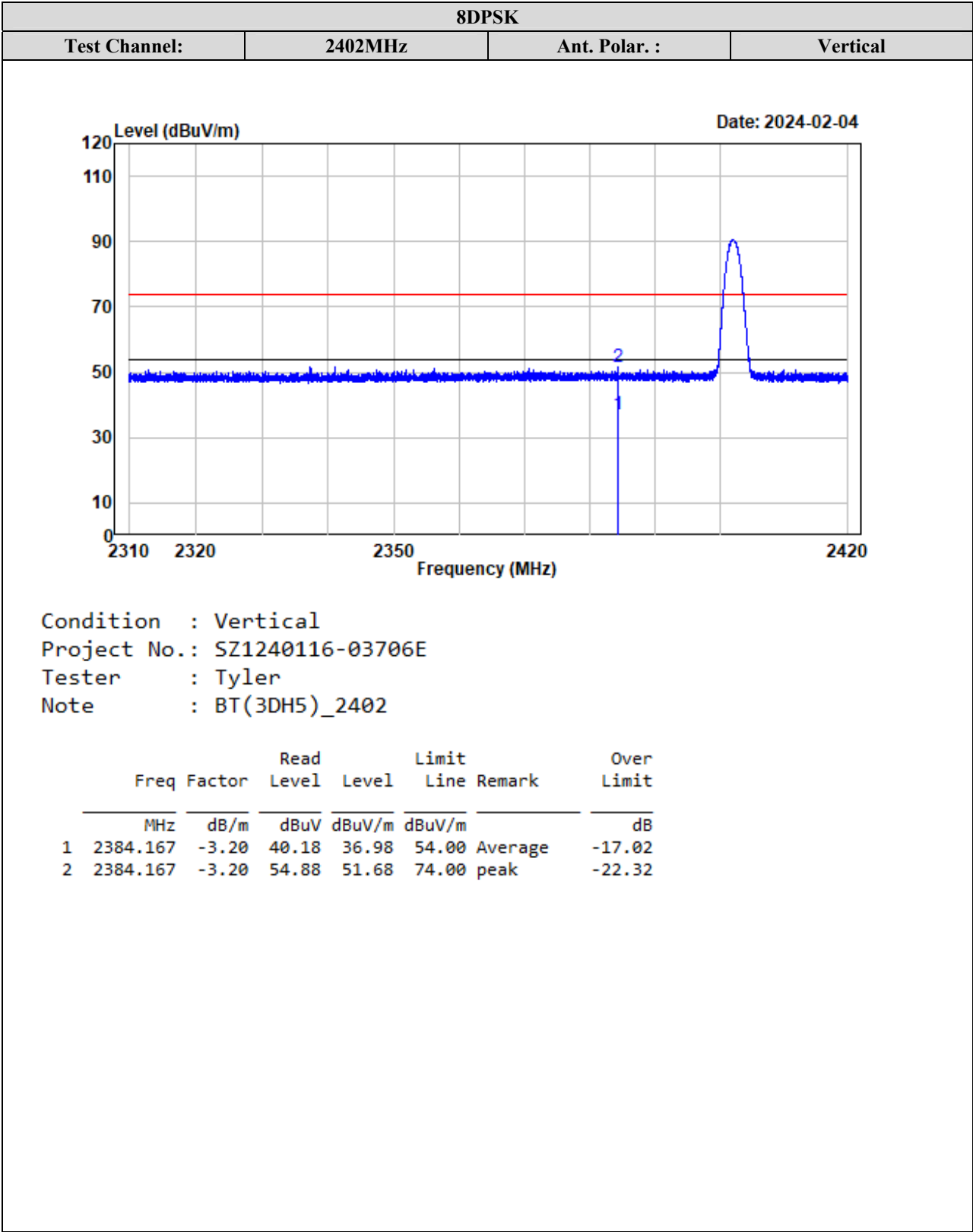


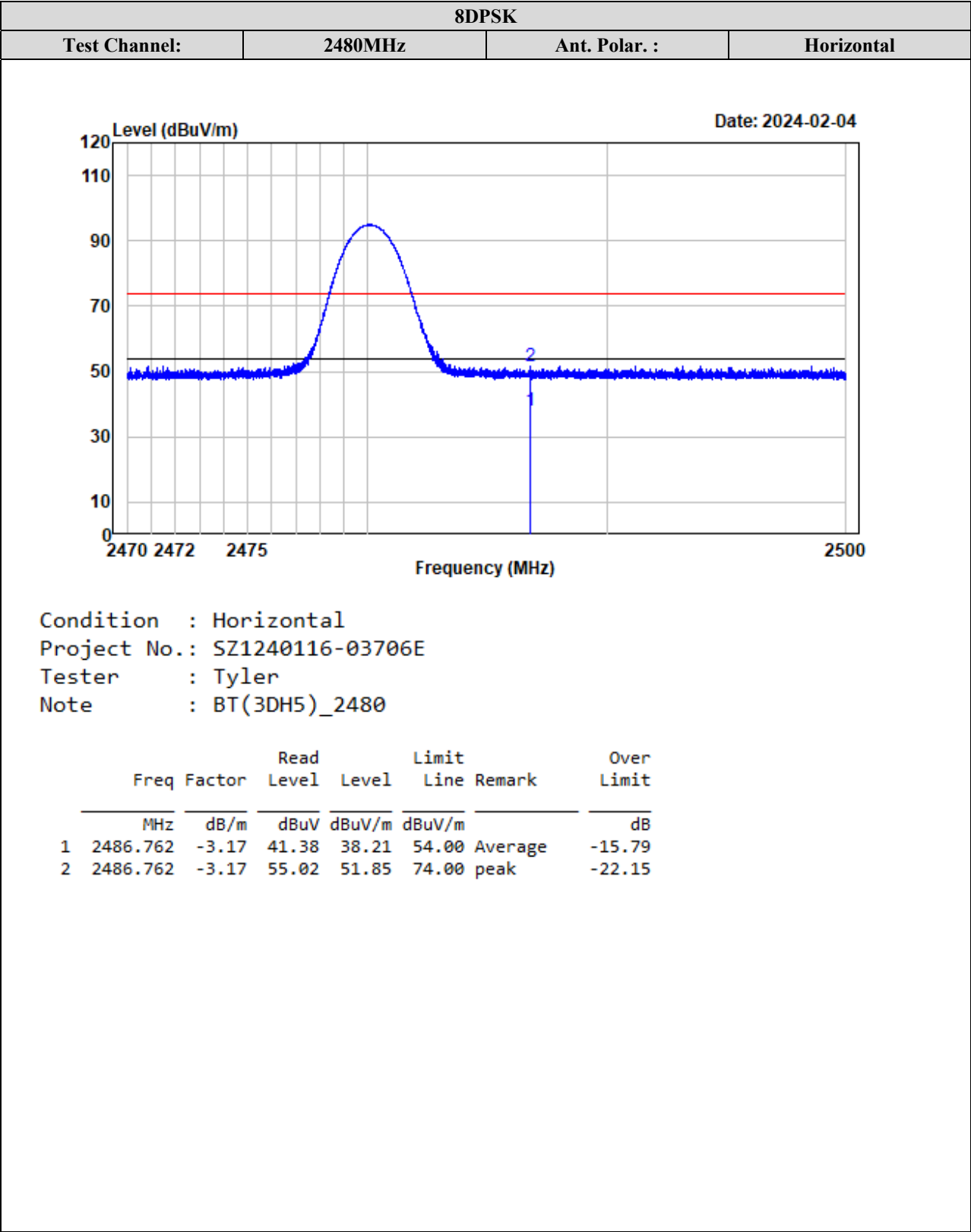


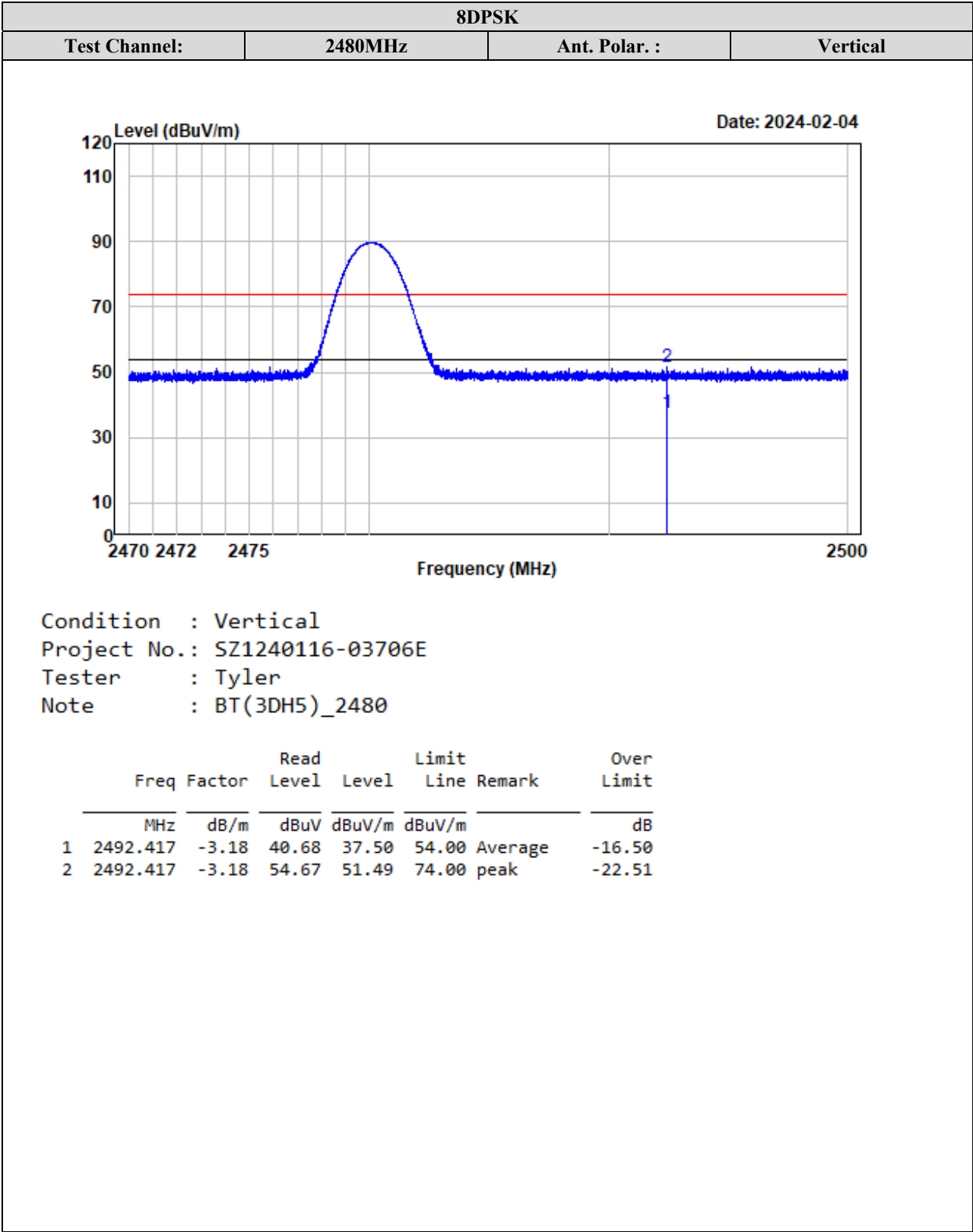




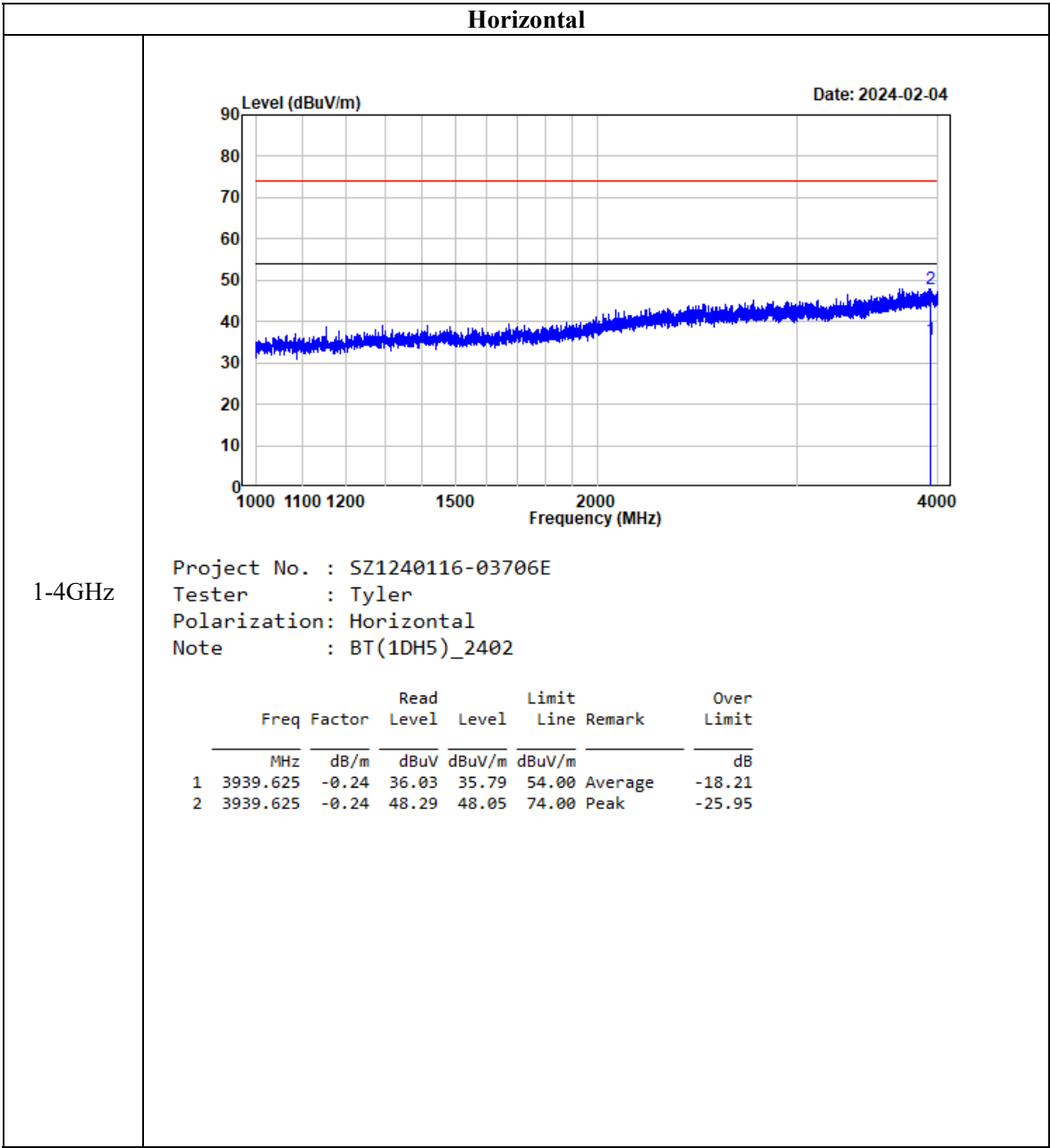


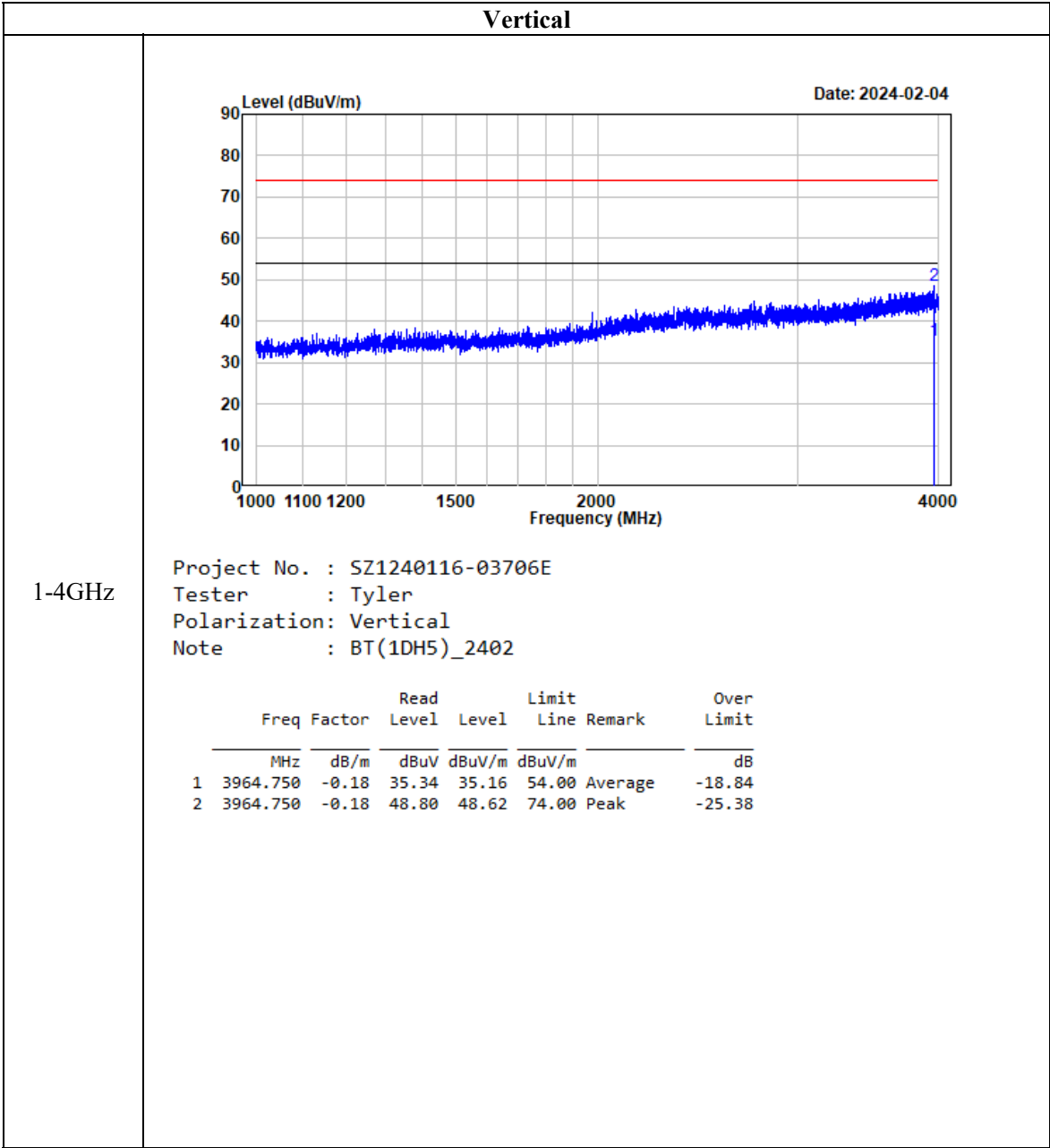


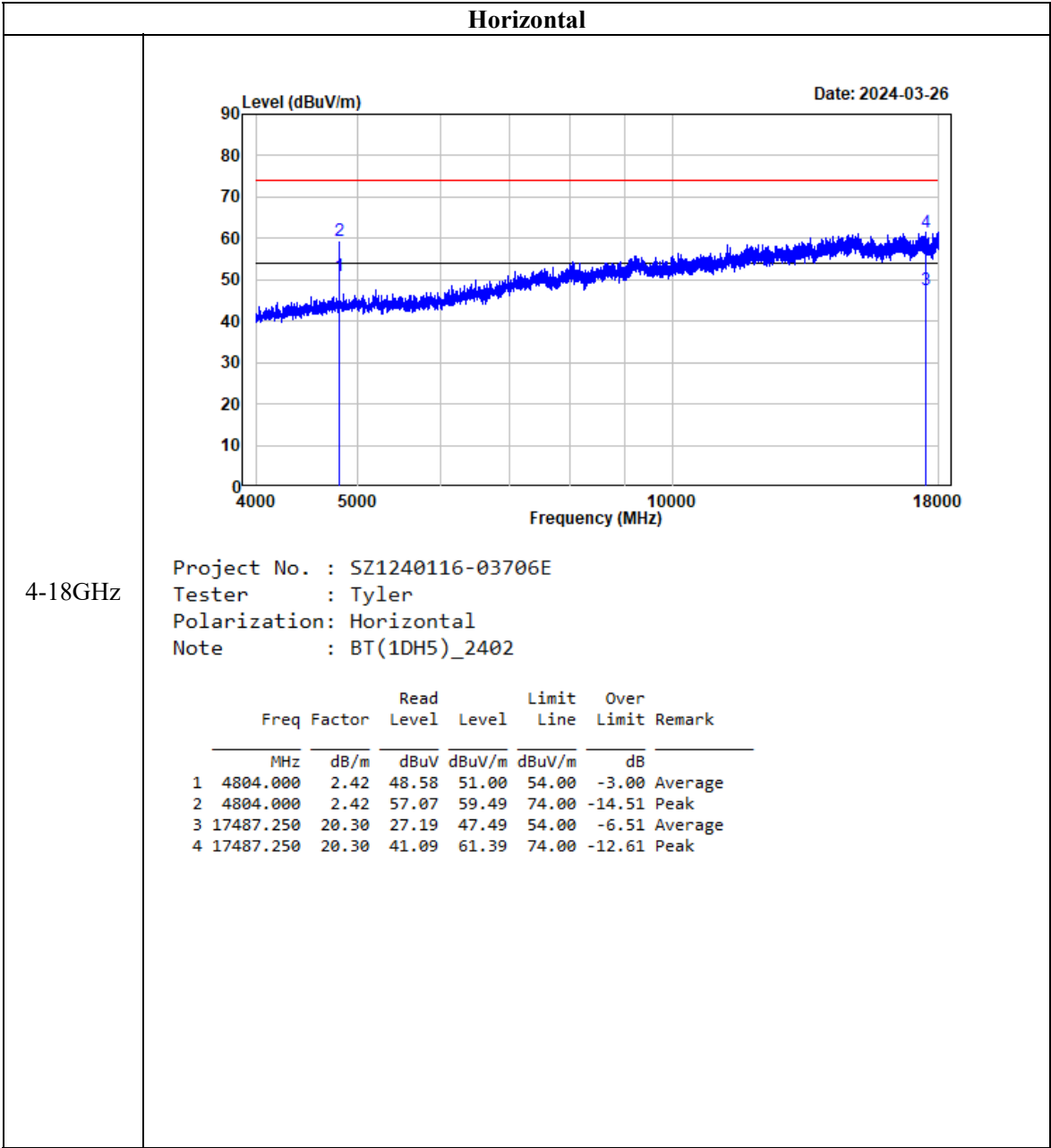


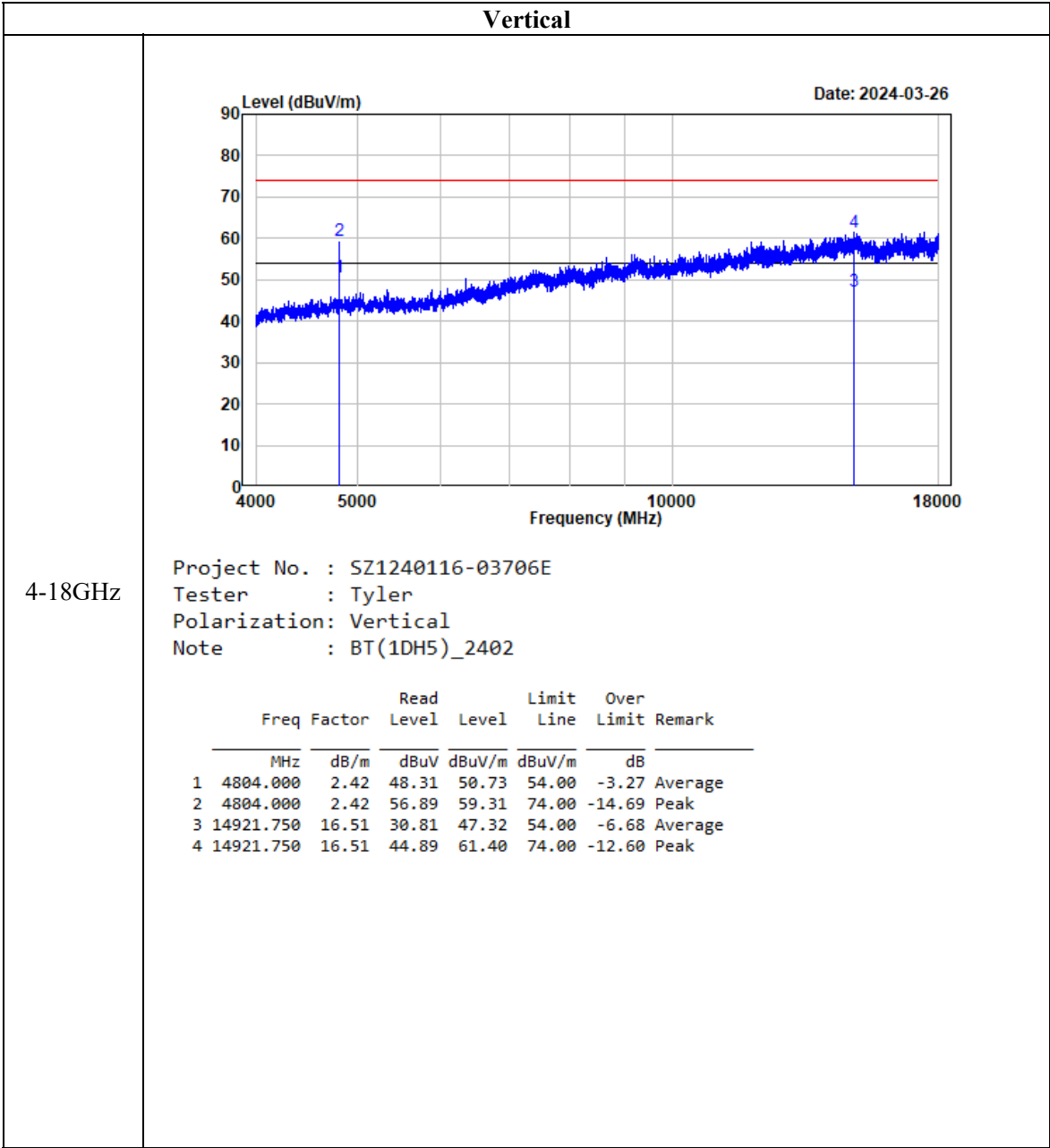


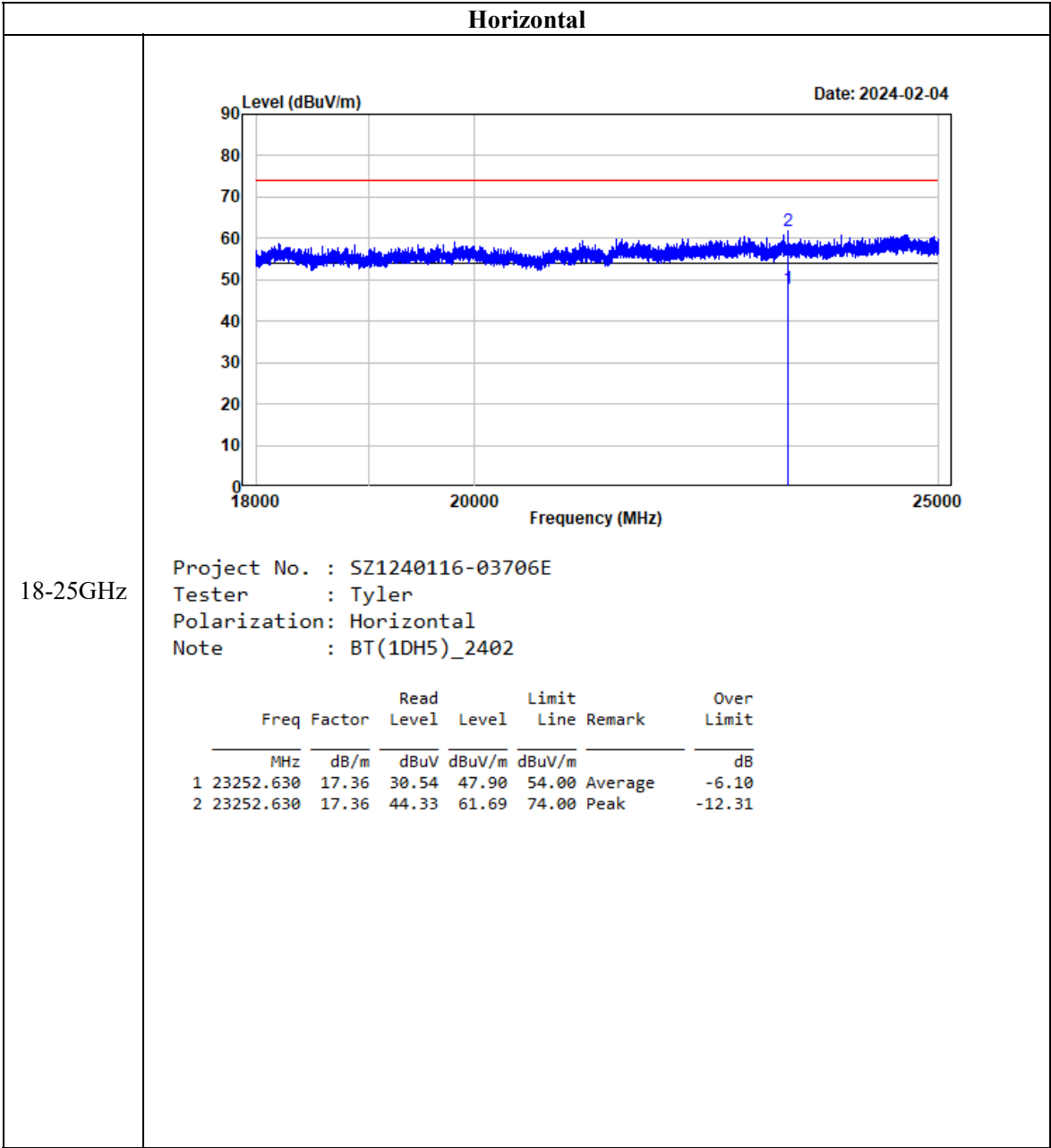
Listed with the worst harmonic margin test plot:

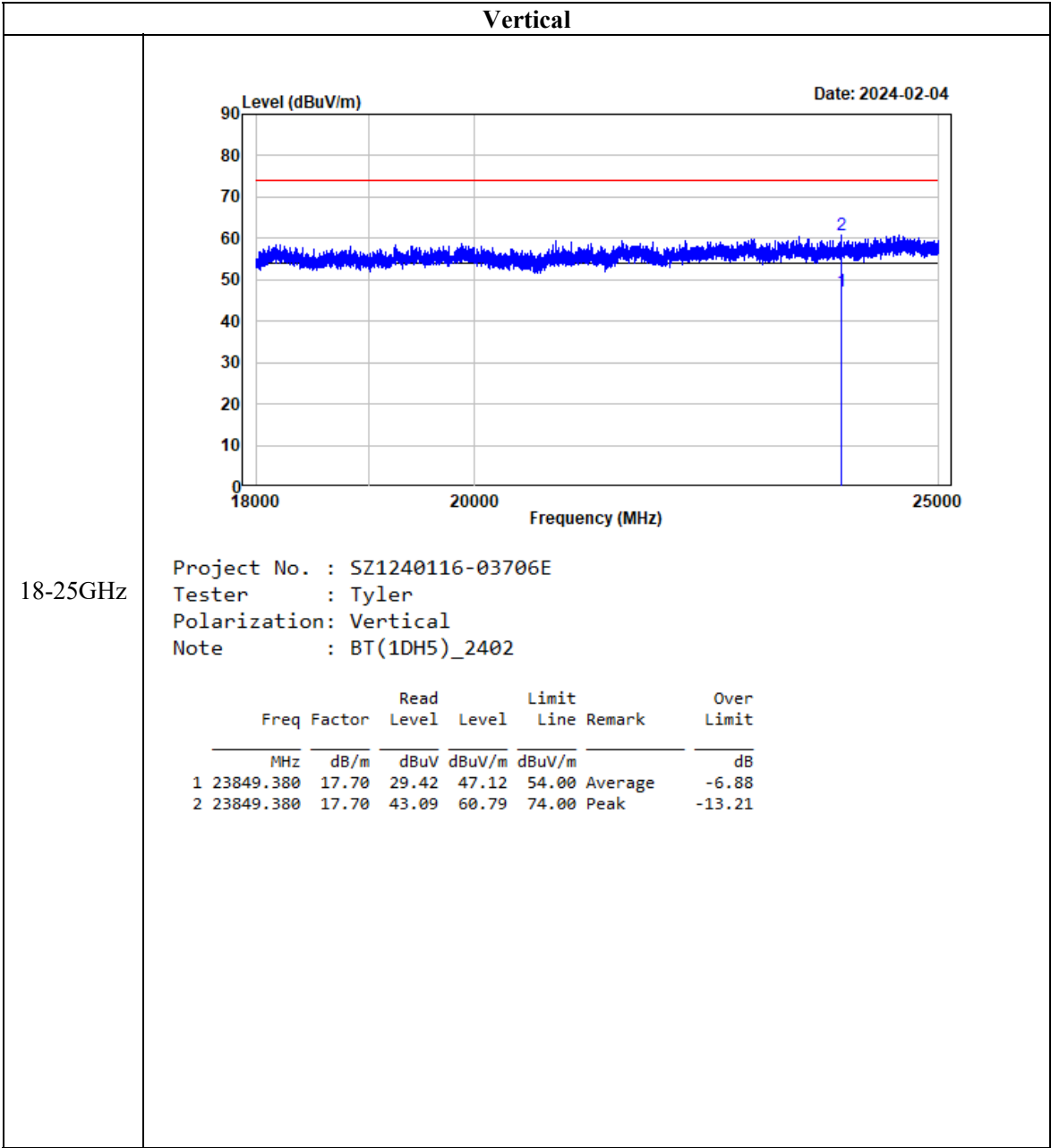












## FCC §15.247(a) (1) - CHANNEL SEPARATION TEST

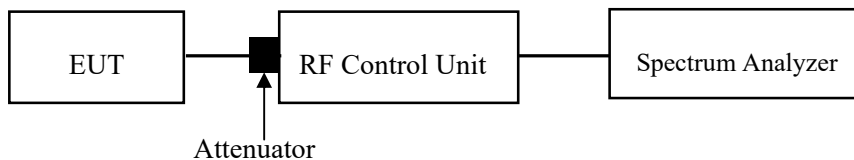
### Applicable Standard

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

### Test Procedure

Test Method: ANSI C63.10-2013 Clause 7.8.2

1. Set the EUT in transmitting mode, maxhold the channel.
2. Set the adjacent channel of the EUT and maxhold another trace.
3. Measure the channel separation.



### Test Data

#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 24 °C     |
| Relative Humidity: | 48 %      |
| ATM Pressure:      | 101.0 kPa |

*The testing was performed by Tom Tan on 2024-03-08.*

*EUT operation mode: Transmitting*

***Test Result: Compliant. Please refer to the Appendix***

## FCC §15.247(a) (1) - 20 dB EMISSION BANDWIDTH

### Applicable Standard

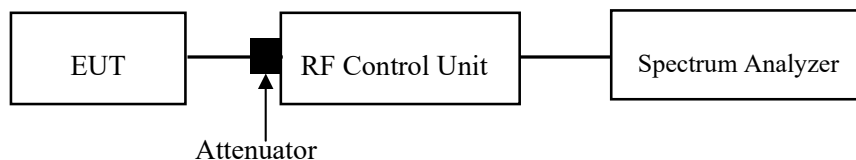
Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than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

### Test Procedure

Test Method: ANSI C63.10-2013 Clause 7.8.7 & Clause 6.9.2

The following conditions shall be observed for measuring the occupied bandwidth and 20 dB bandwidth:

- The transmitter shall be operated at its maximum carrier power measured under normal test conditions.
- The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.
- The detector of the spectrum analyzer shall be set to “Sample”. However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or “Max Hold”) may be necessary to determine the occupied / 20 dB bandwidth if the device is not transmitting continuously.
- The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW/ 20dB bandwidth and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.



### Test Data

#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 24 °C     |
| Relative Humidity: | 48 %      |
| ATM Pressure:      | 101.0 kPa |

*The testing was performed by Tom Tan on 2024-03-08.*

*EUT operation mode: Transmitting*

***Test Result: Compliant. Please refer to the Appendix***

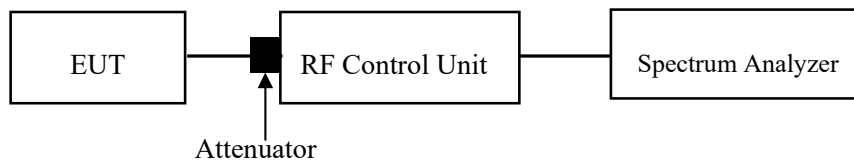
**FCC §15.247(a) (1) (iii) - QUANTITY OF HOPPING CHANNEL TEST****Applicable Standard**

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

**Test Procedure**

Test Method: ANSI C63.10-2013 Clause 7.8.3

1. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
2. Set the EUT in hopping mode from first channel to last.
3. By using the max-hold function record the quantity of the channel.

**Test Data****Environmental Conditions**

|                    |           |
|--------------------|-----------|
| Temperature:       | 24 °C     |
| Relative Humidity: | 48 %      |
| ATM Pressure:      | 101.0 kPa |

*The testing was performed by Tom Tan on 2024-03-08.*

*EUT operation mode: Transmitting*

***Test Result: Compliant. Please refer to the Appendix***

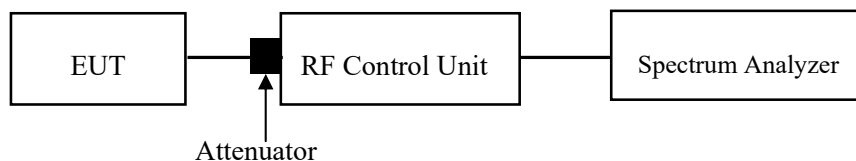
**FCC §15.247(a) (1) (iii) - TIME OF OCCUPANCY (DWELL TIME)****Applicable Standard**

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

**Test Procedure**

Test Method: ANSI C63.10-2013 Clause 7.8.4

1. The EUT was worked in channel hopping.
2. Set the RBW to: 1MHz.
3. Set the VBW  $\geq 3 \times$  RBW.
4. Set the span to 0Hz.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Recorded the time of single pulses

**Test Data****Environmental Conditions**

|                    |           |
|--------------------|-----------|
| Temperature:       | 24 °C     |
| Relative Humidity: | 48 %      |
| ATM Pressure:      | 101.0 kPa |

*The testing was performed by Tom Tan on 2024-03-08.*

*EUT operation mode: Transmitting*

***Test Result: Compliant. Please refer to the Appendix***

## FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT

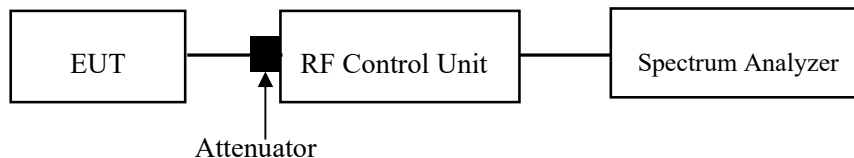
### Applicable Standard

According to §15.247(b) (1), 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. And for all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

### Test Procedure

Test Method: ANSI C63.10-2013 Clause 7.8.5

1. Place the EUT on a bench and set in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
3. Add a correction factor to the display.



### Test Data

#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 24 °C     |
| Relative Humidity: | 48 %      |
| ATM Pressure:      | 101.0 kPa |

*The testing was performed by Tom Tan on 2024-03-08.*

*EUT operation mode: Transmitting*

***Test Result: Compliant. Please refer to the Appendix***

## FCC §15.247(d) § 5.5 - BAND EDGES TESTING

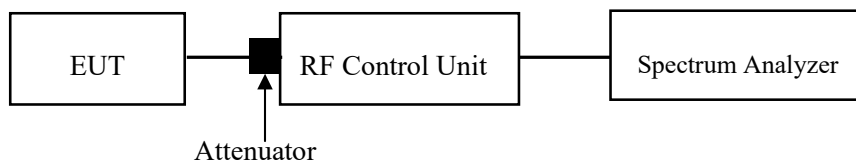
### Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### Test Procedure

Test Method: ANSI C63.10-2013 Clause 7.8.6 & Clause 6.10

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.



### Test Data

#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 24 °C     |
| Relative Humidity: | 48 %      |
| ATM Pressure:      | 101.0 kPa |

*The testing was performed by Tom Tan on 2024-03-08.*

*EUT operation mode: Transmitting*

***Test Result: Compliant. Please refer to the Appendix***

## **EUT PHOTOGRAPHS**

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Please refer to the attachment SZ1240116-03706E-RF External photo and SZ1240116-03706E-RF Internal photo.

## **TEST SETUP PHOTOGRAPHS**

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Please refer to the attachment SZ1240116-03706E-RF-00A Test Setup photo.

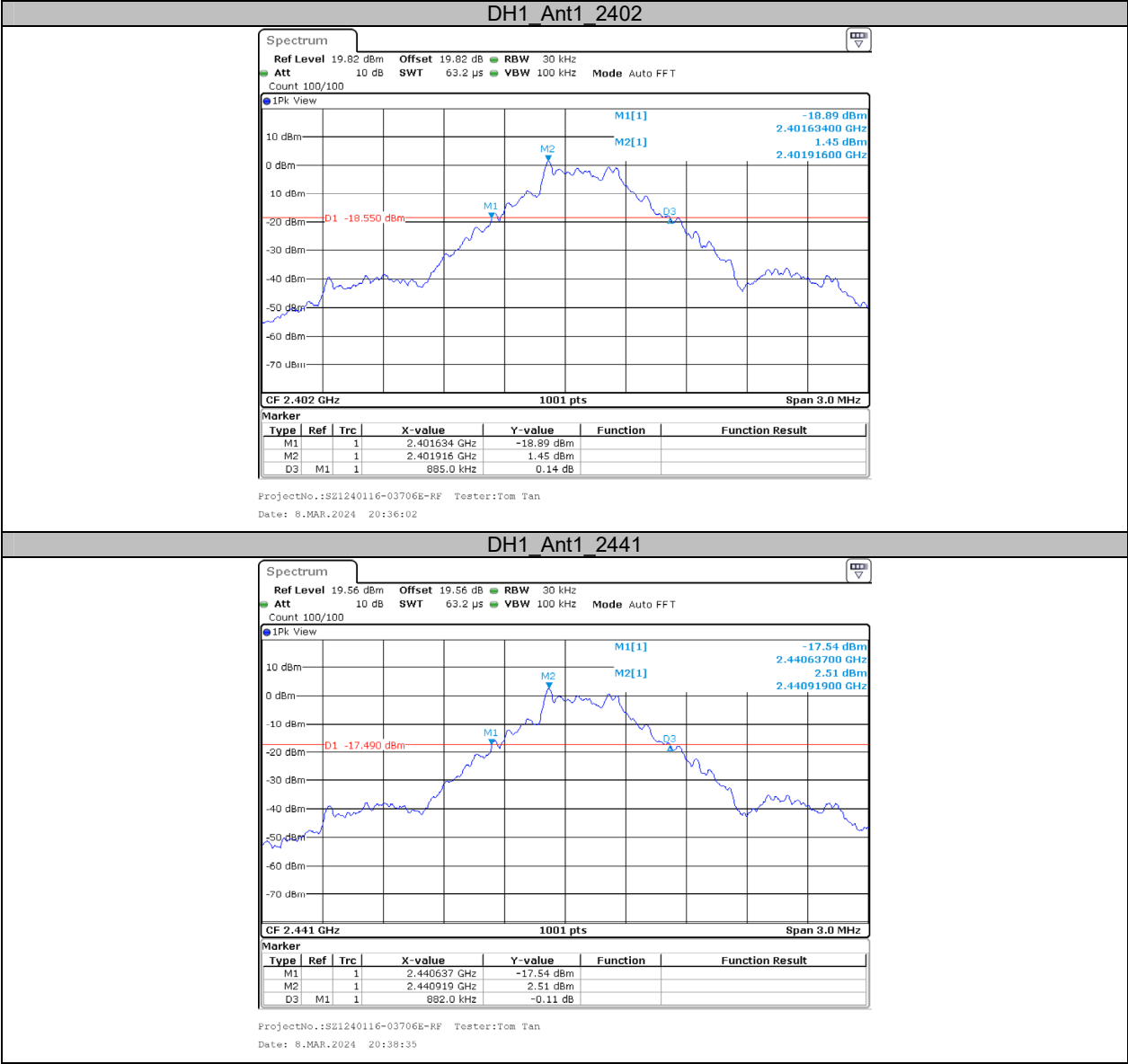
APPENDIX

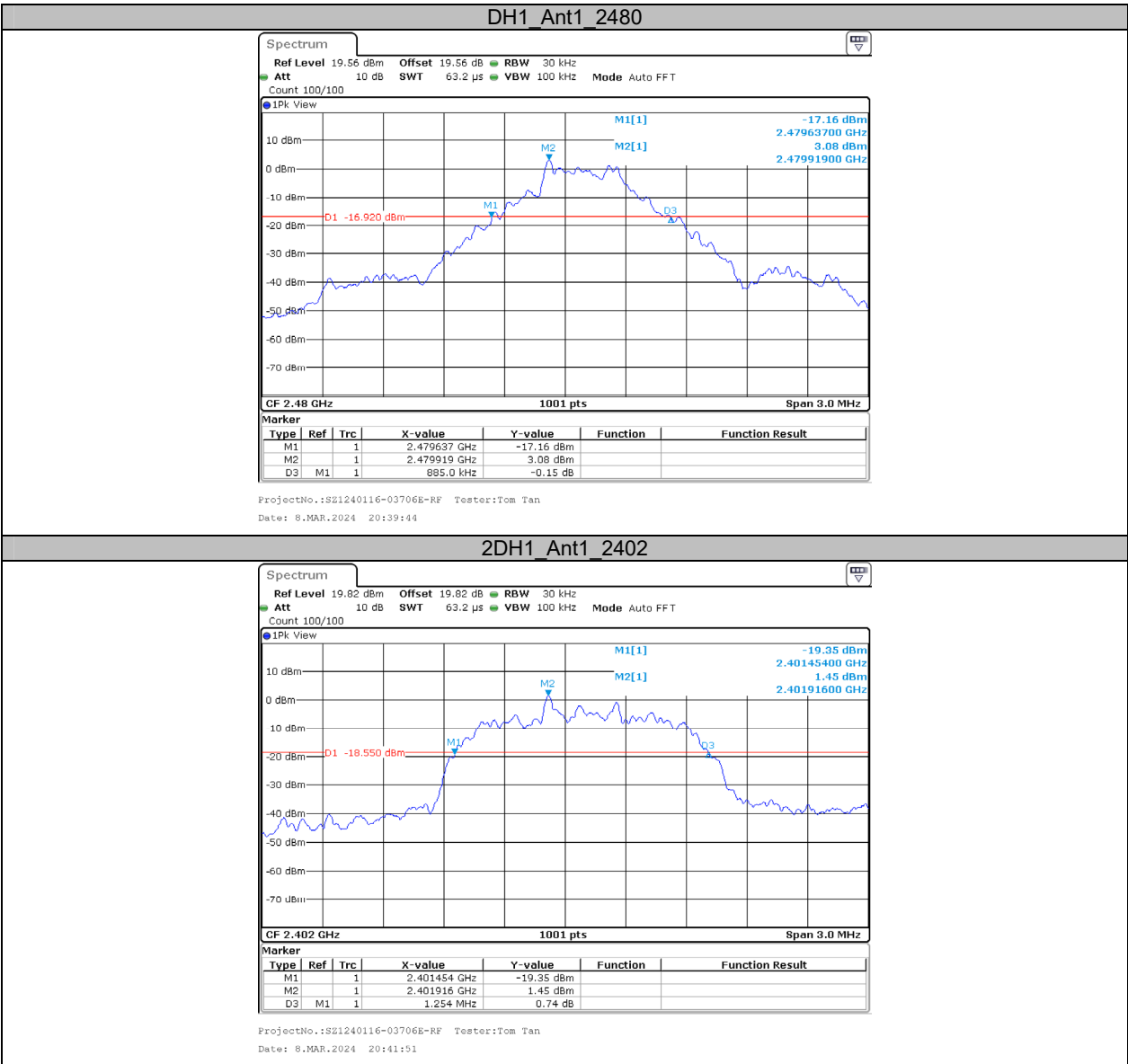
Appendix A: 20dB Emission Bandwidth

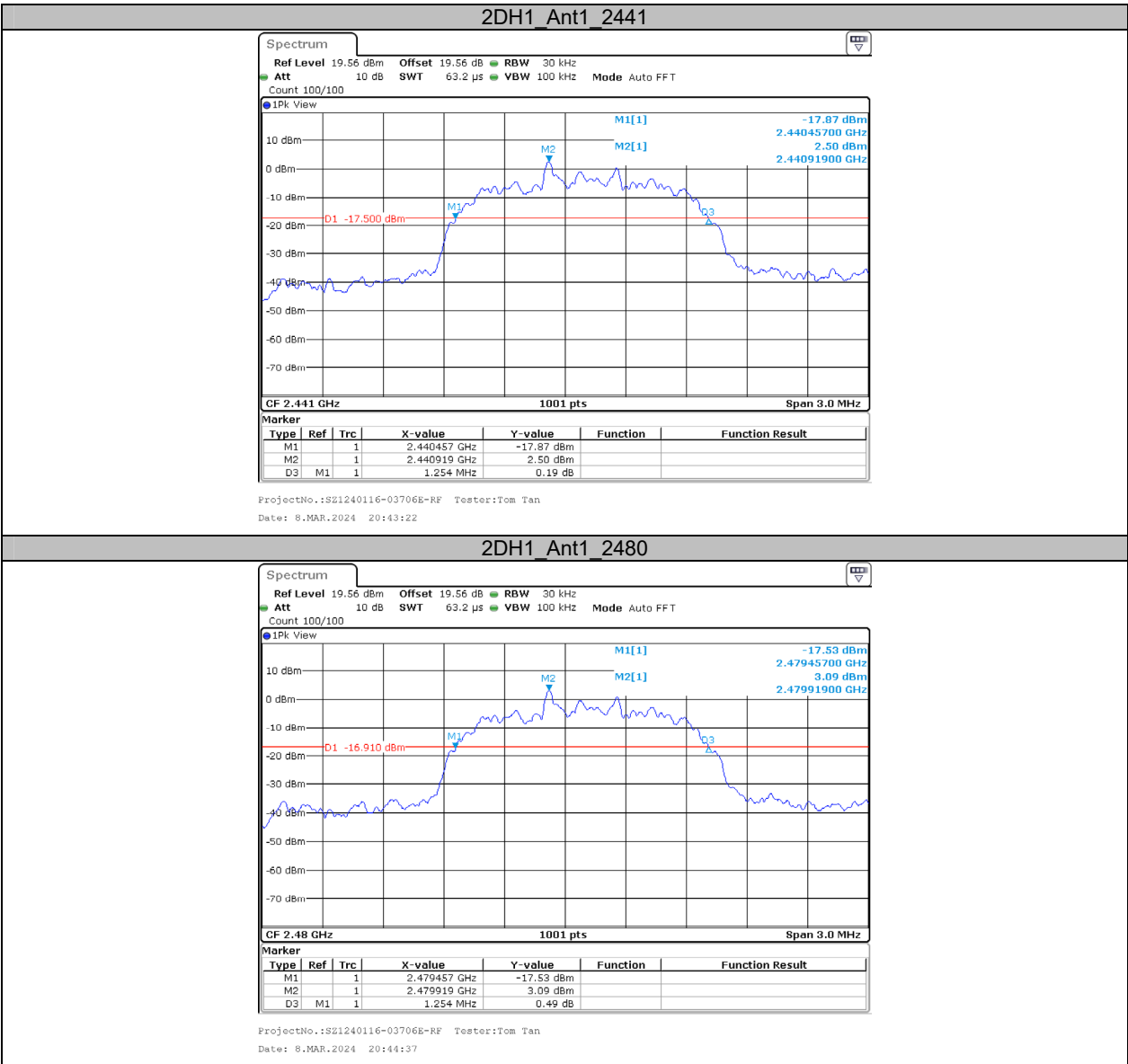
Test Result

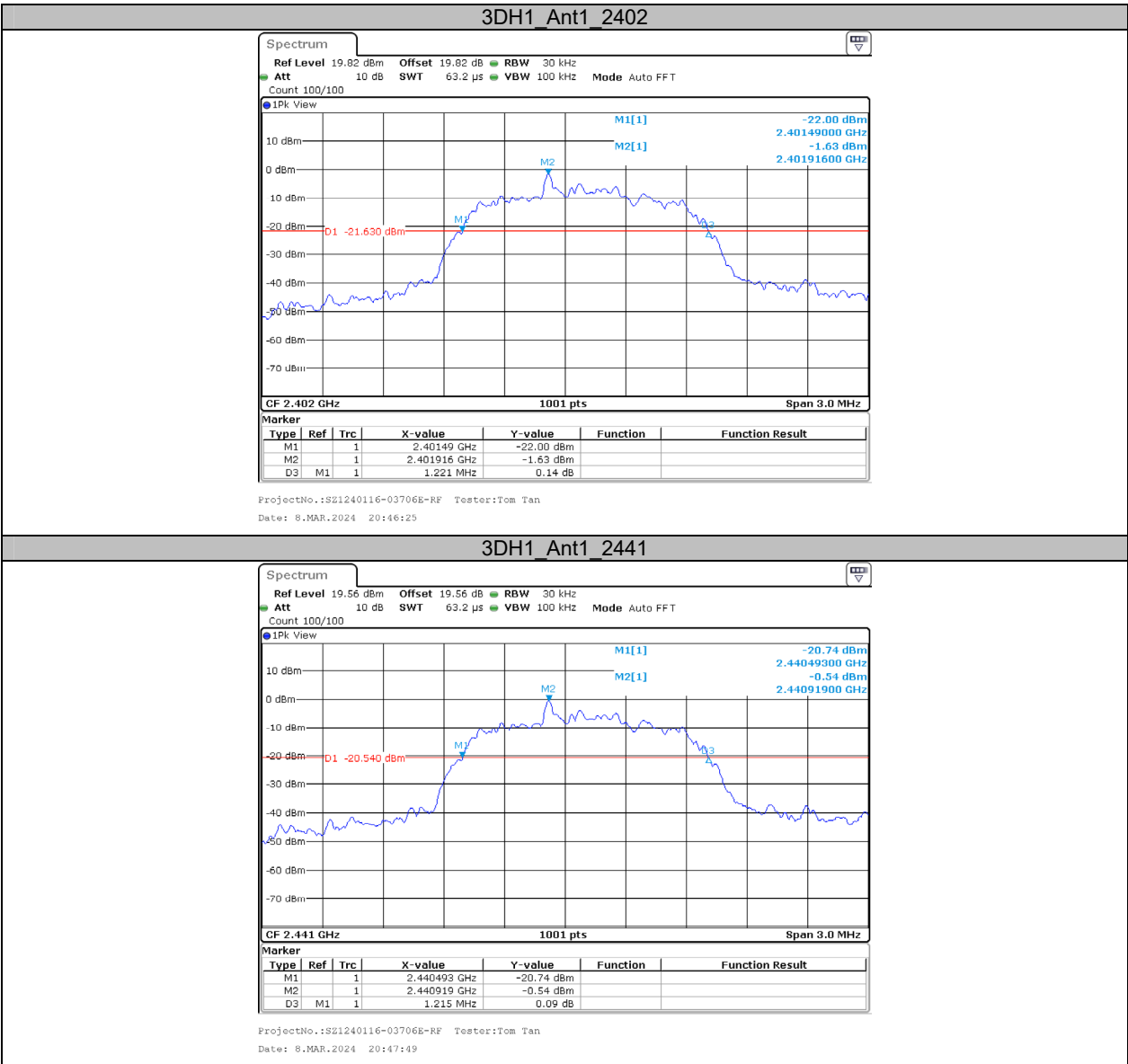
| Test Mode | Antenna | Channel | 20db EBW[MHz] |
|-----------|---------|---------|---------------|
| DH1       | Ant1    | 2402    | 0.88          |
|           |         | 2441    | 0.88          |
|           |         | 2480    | 0.88          |
| 2DH1      | Ant1    | 2402    | 1.25          |
|           |         | 2441    | 1.25          |
|           |         | 2480    | 1.25          |
| 3DH1      | Ant1    | 2402    | 1.22          |
|           |         | 2441    | 1.22          |
|           |         | 2480    | 1.22          |

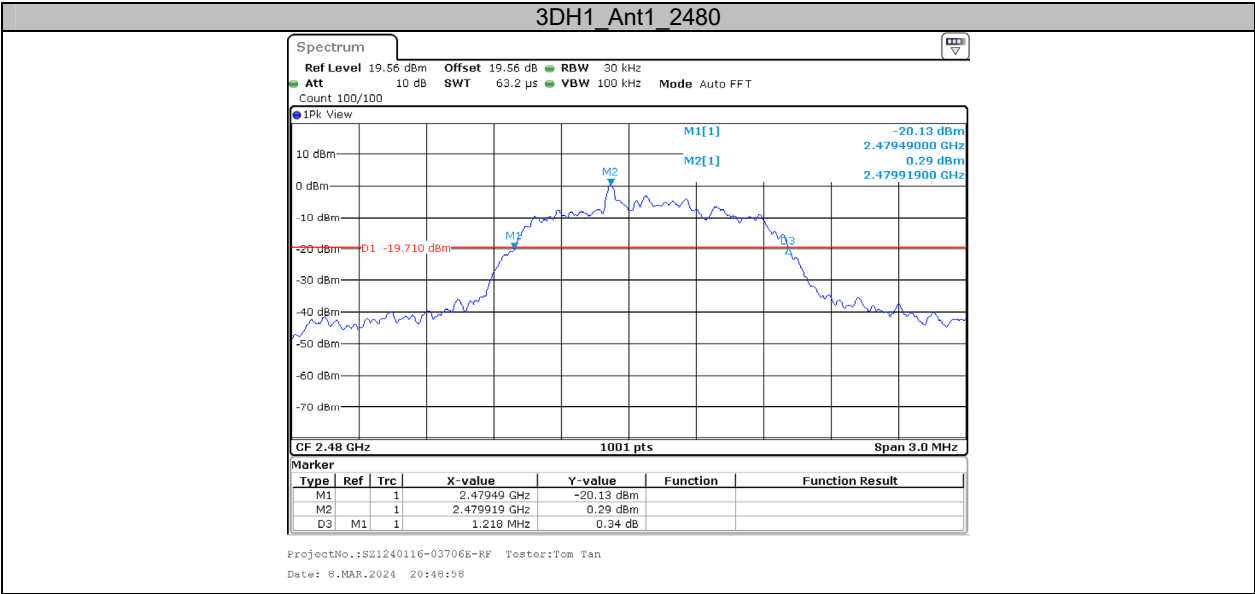
Test Graphs









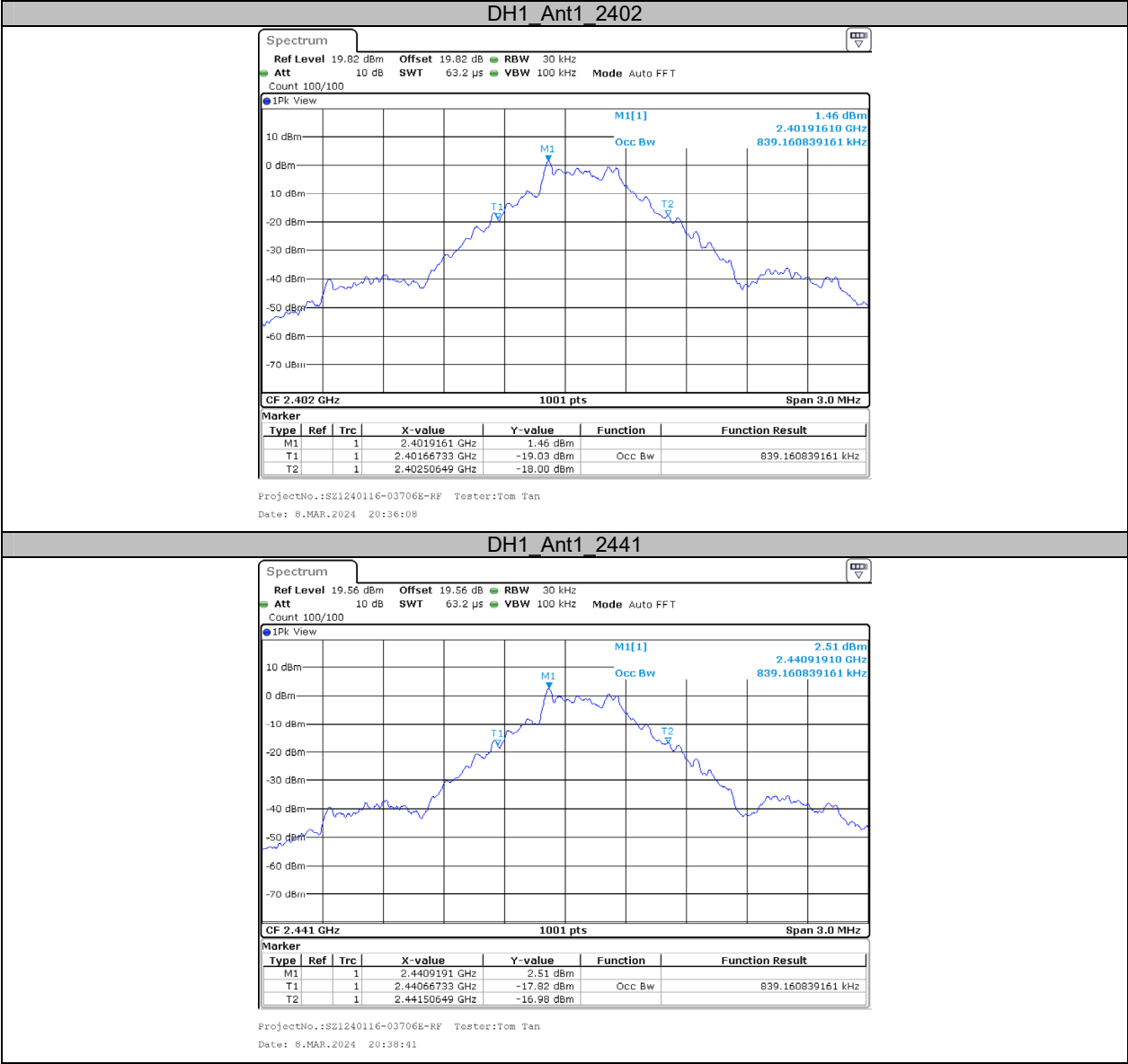


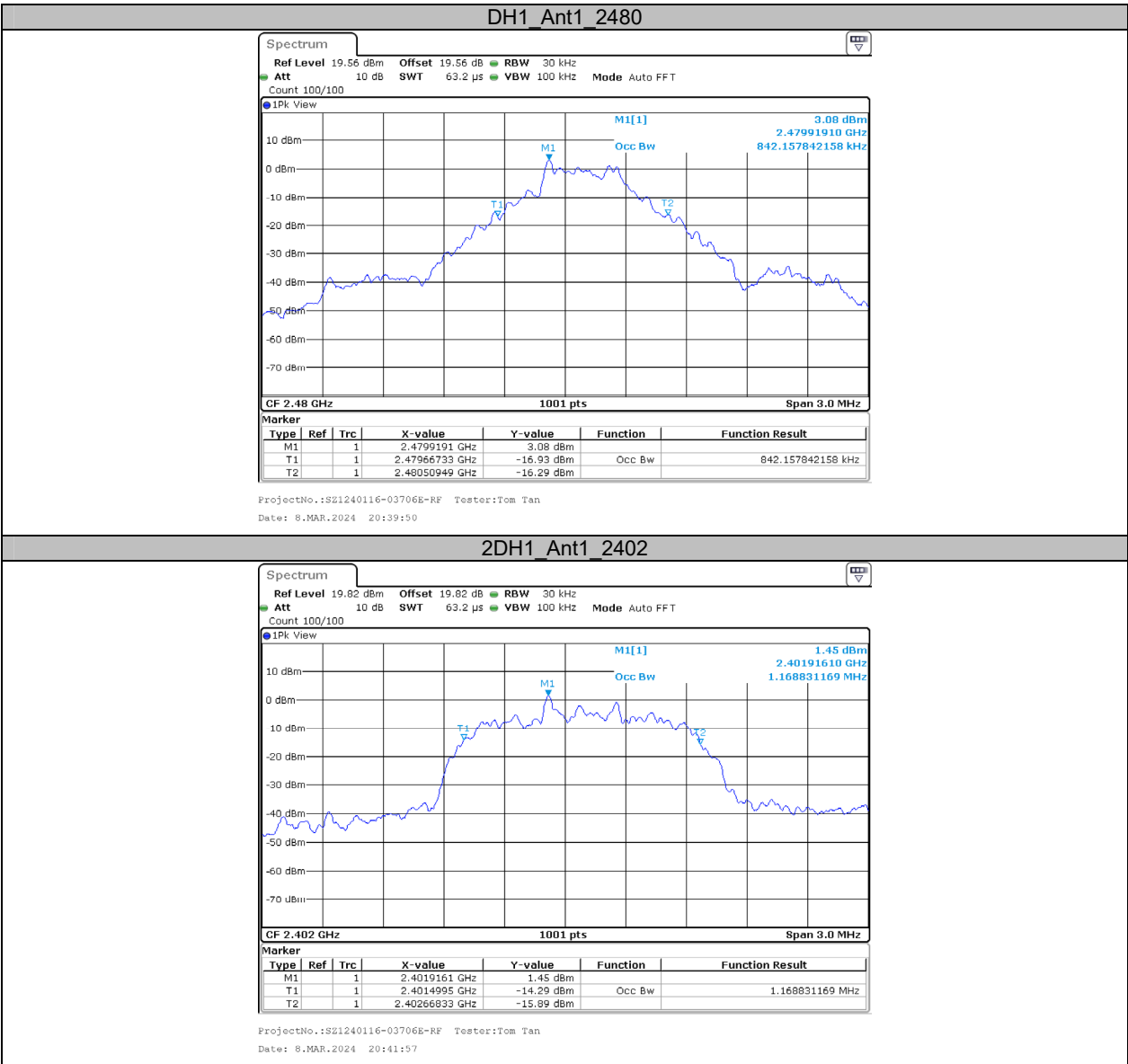
Appendix B: Occupied Channel Bandwidth

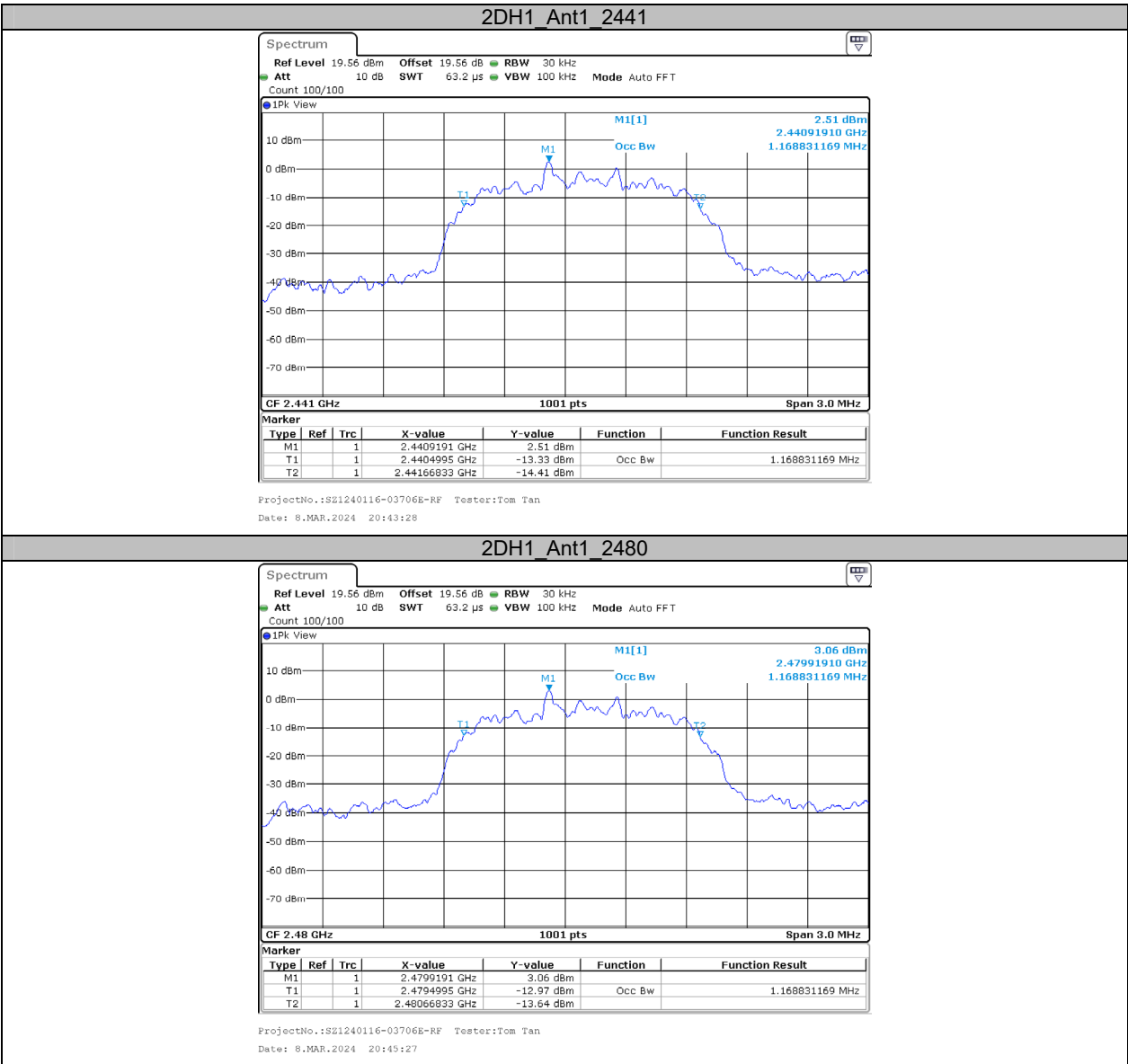
Test Result

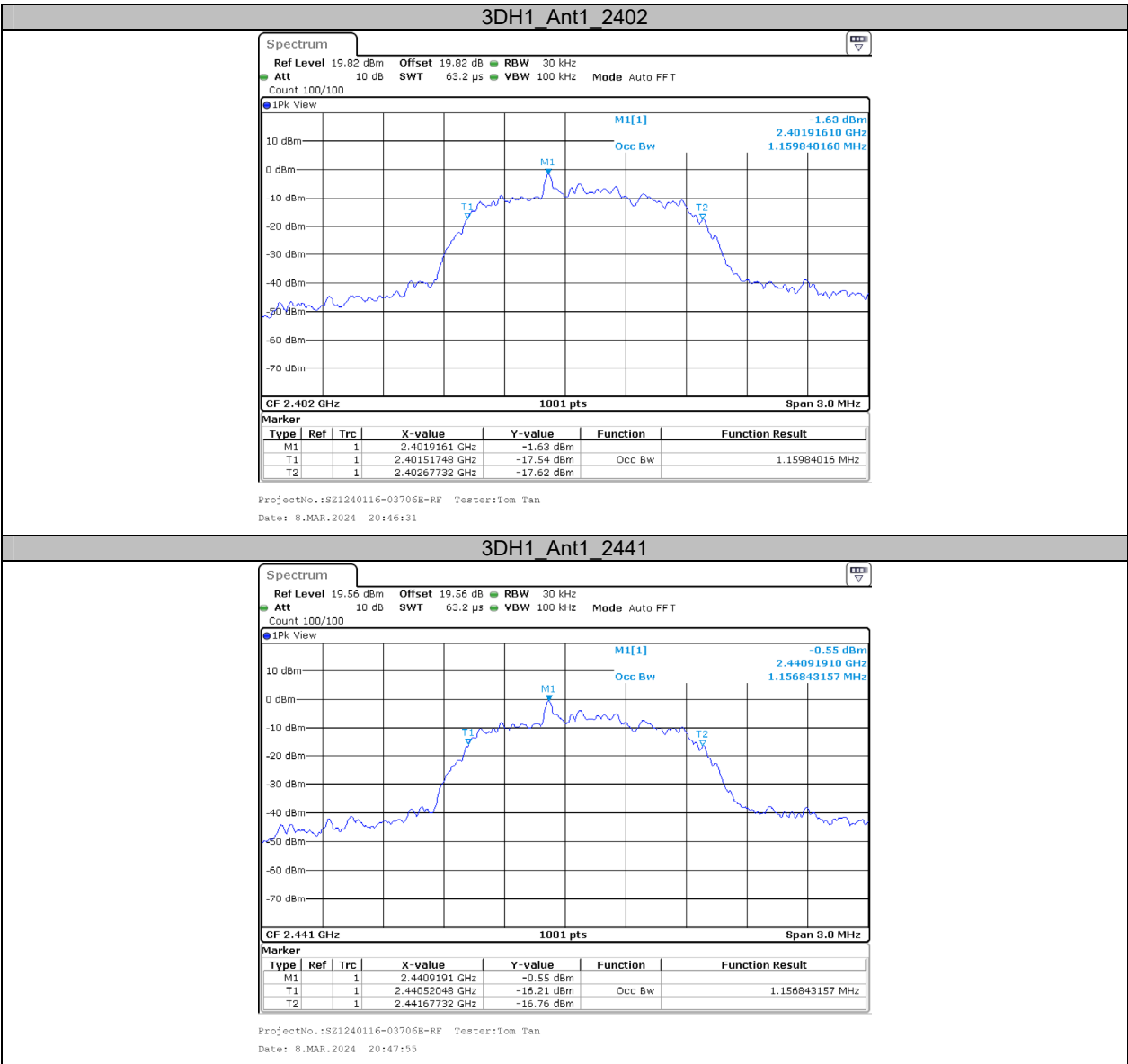
| Test Mode | Antenna | Channel | OCB [MHz] |
|-----------|---------|---------|-----------|
| DH1       | Ant1    | 2402    | 0.839     |
|           |         | 2441    | 0.839     |
|           |         | 2480    | 0.842     |
| 2DH1      | Ant1    | 2402    | 1.169     |
|           |         | 2441    | 1.169     |
|           |         | 2480    | 1.169     |
| 3DH1      | Ant1    | 2402    | 1.16      |
|           |         | 2441    | 1.157     |
|           |         | 2480    | 1.157     |

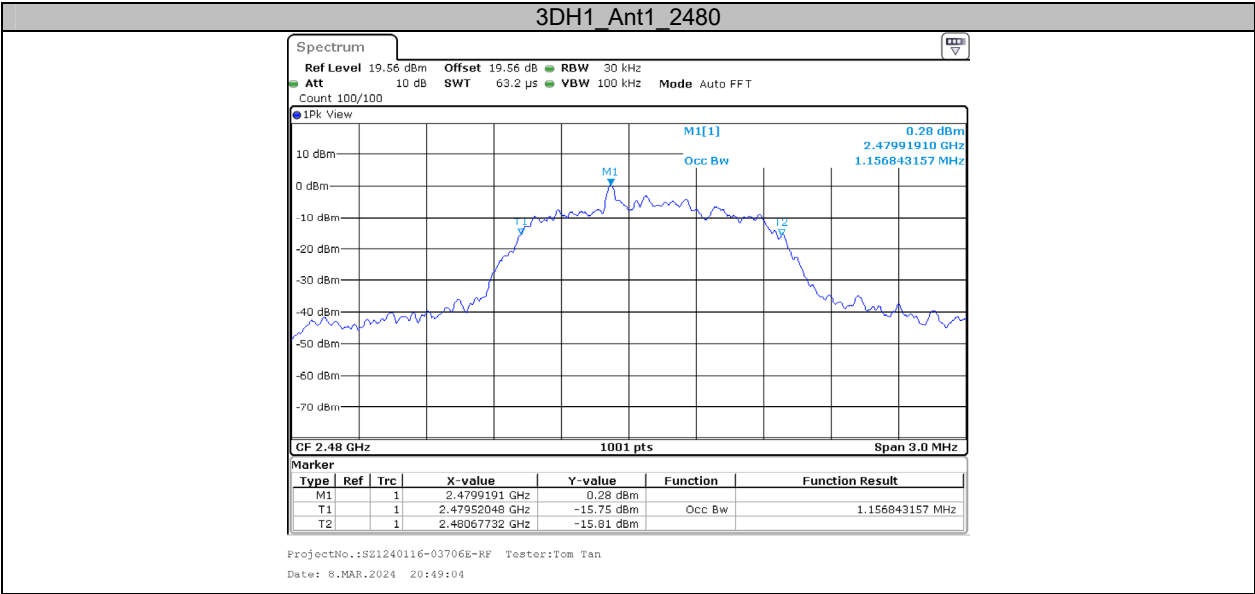
Test Graphs







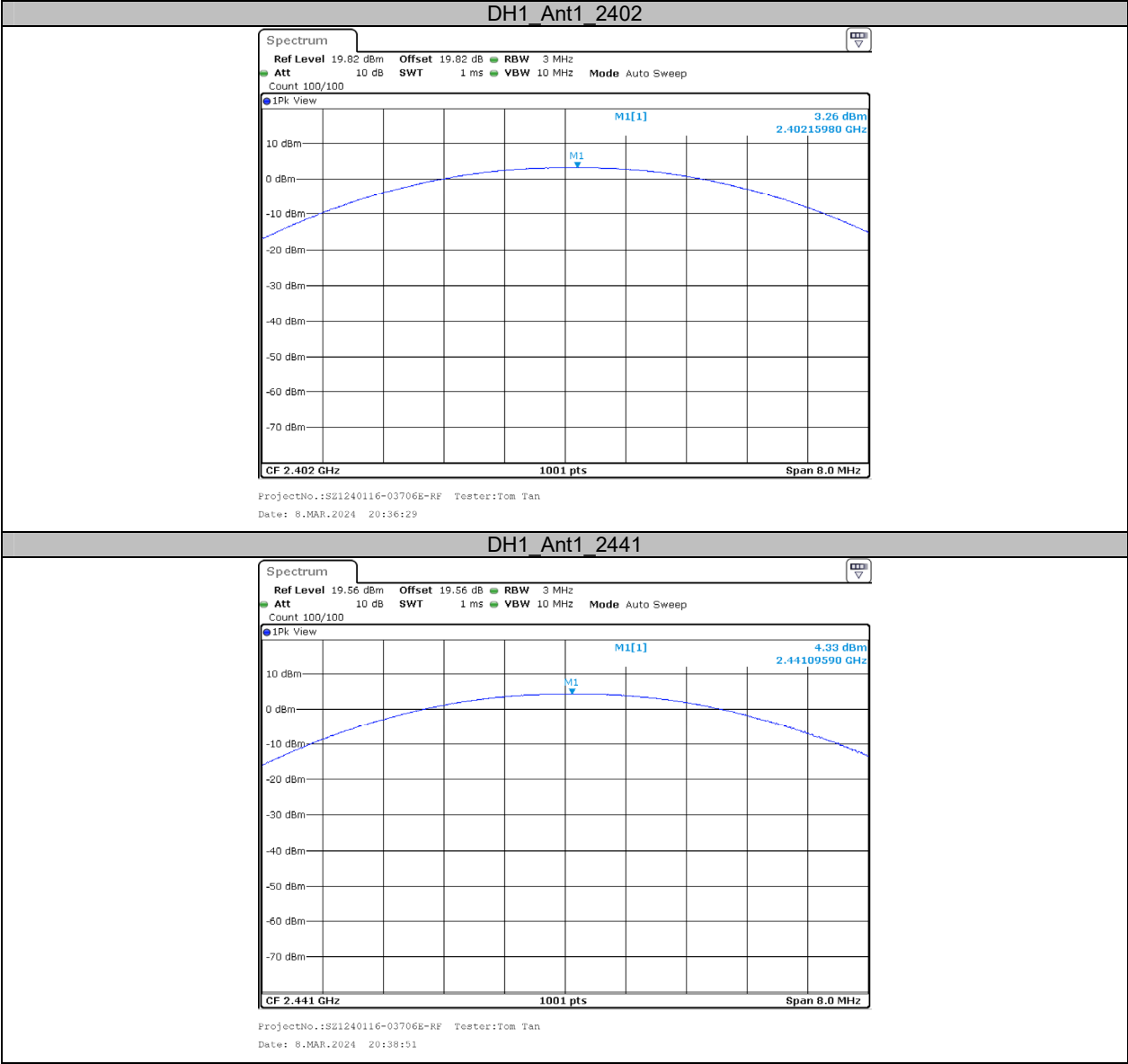


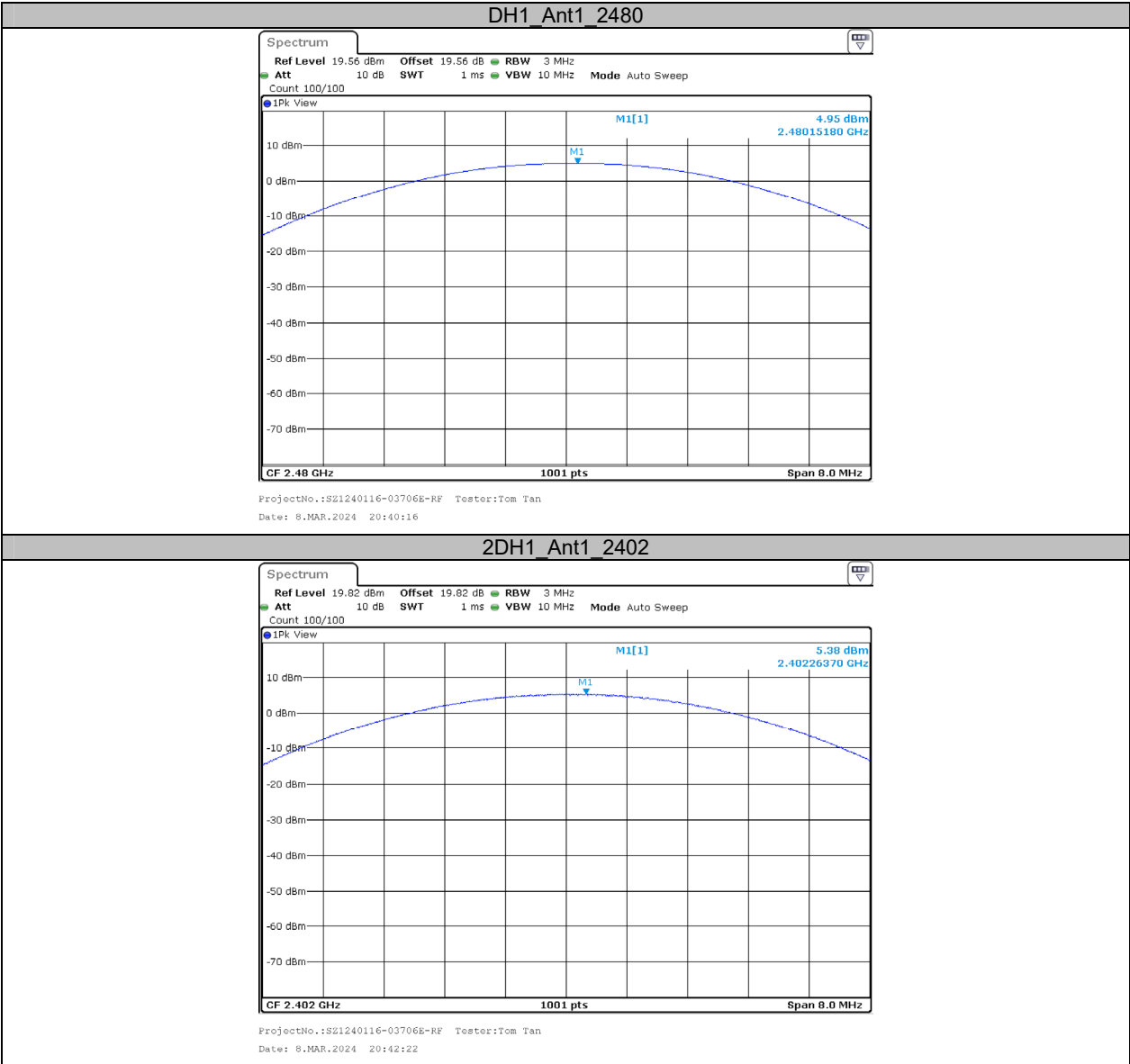


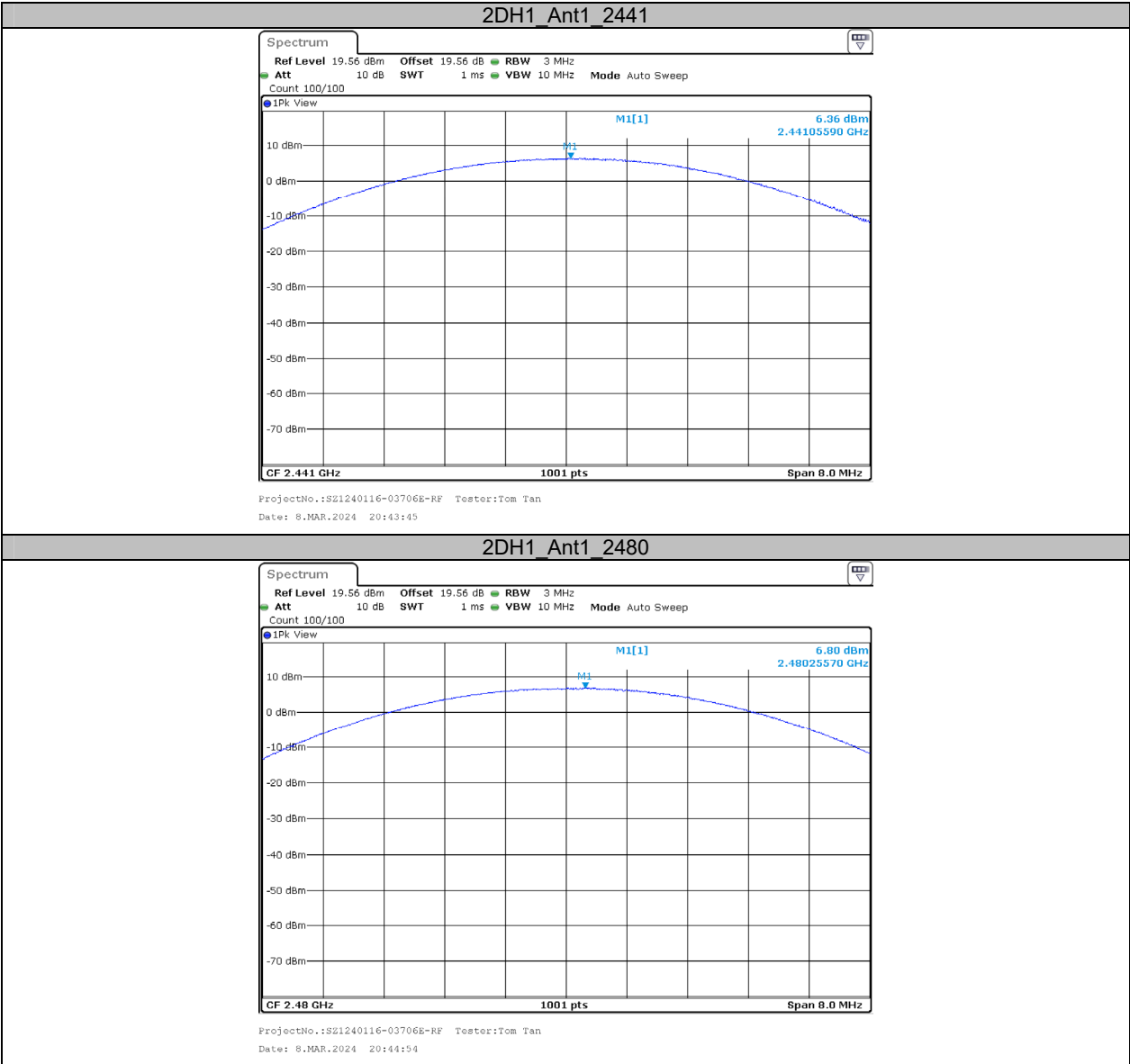
**Appendix C: Maximum conducted Peak output power****Test Result**

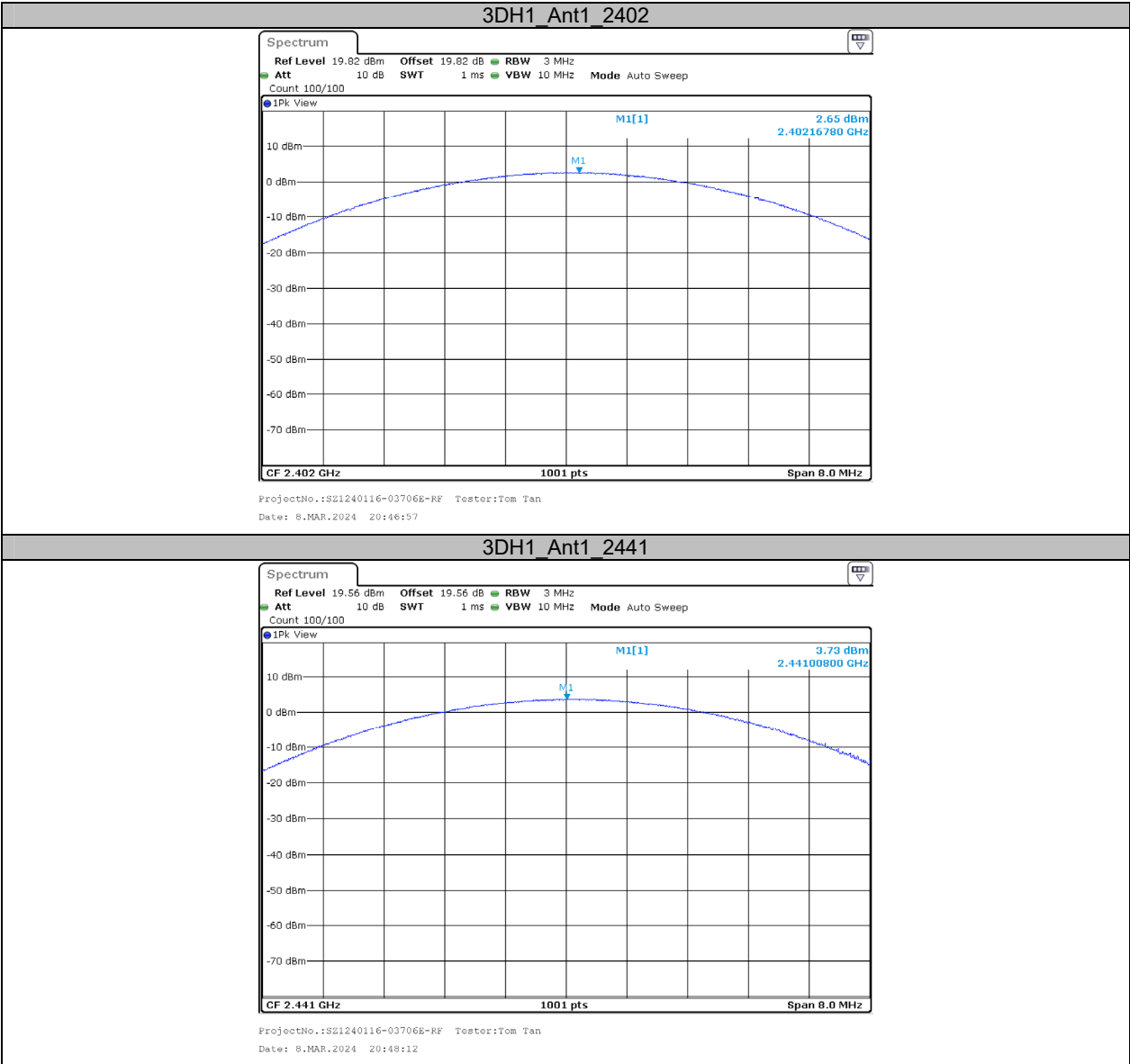
| Test Mode | Antenna | Channel | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|---------|-------------|------------|---------|
| DH1       | Ant1    | 2402    | 3.26        | ≤20.97     | PASS    |
|           |         | 2441    | 4.33        | ≤20.97     | PASS    |
|           |         | 2480    | 4.95        | ≤20.97     | PASS    |
| 2DH1      | Ant1    | 2402    | 5.38        | ≤20.97     | PASS    |
|           |         | 2441    | 6.36        | ≤20.97     | PASS    |
|           |         | 2480    | 6.80        | ≤20.97     | PASS    |
| 3DH1      | Ant1    | 2402    | 2.65        | ≤20.97     | PASS    |
|           |         | 2441    | 3.73        | ≤20.97     | PASS    |
|           |         | 2480    | 4.52        | ≤20.97     | PASS    |

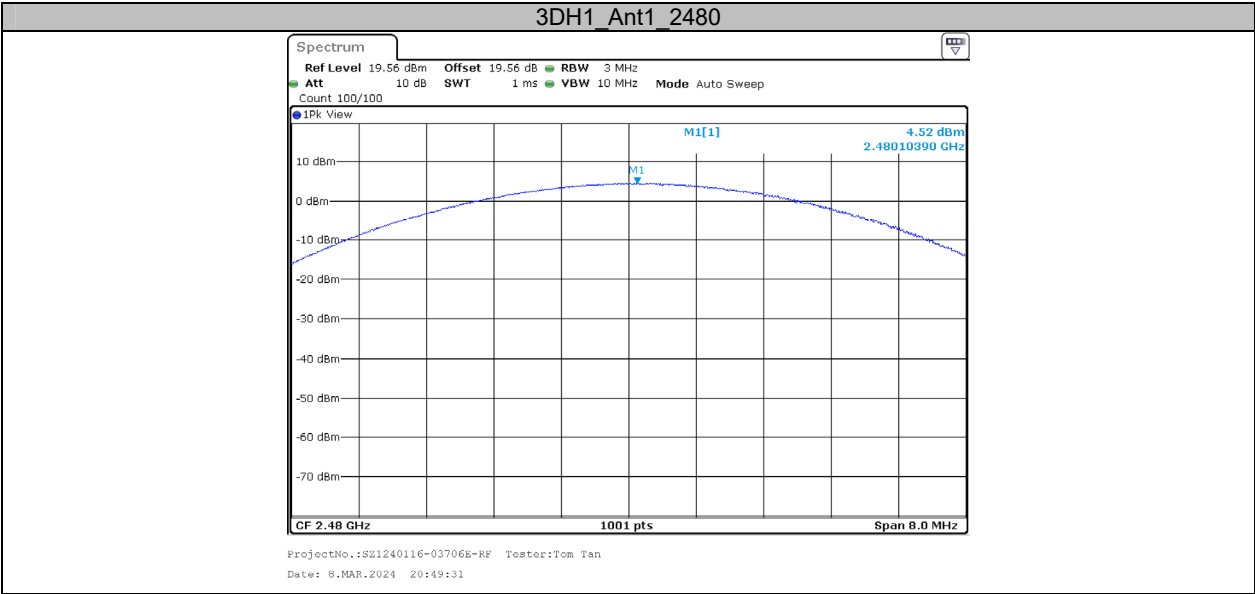
Test Graphs









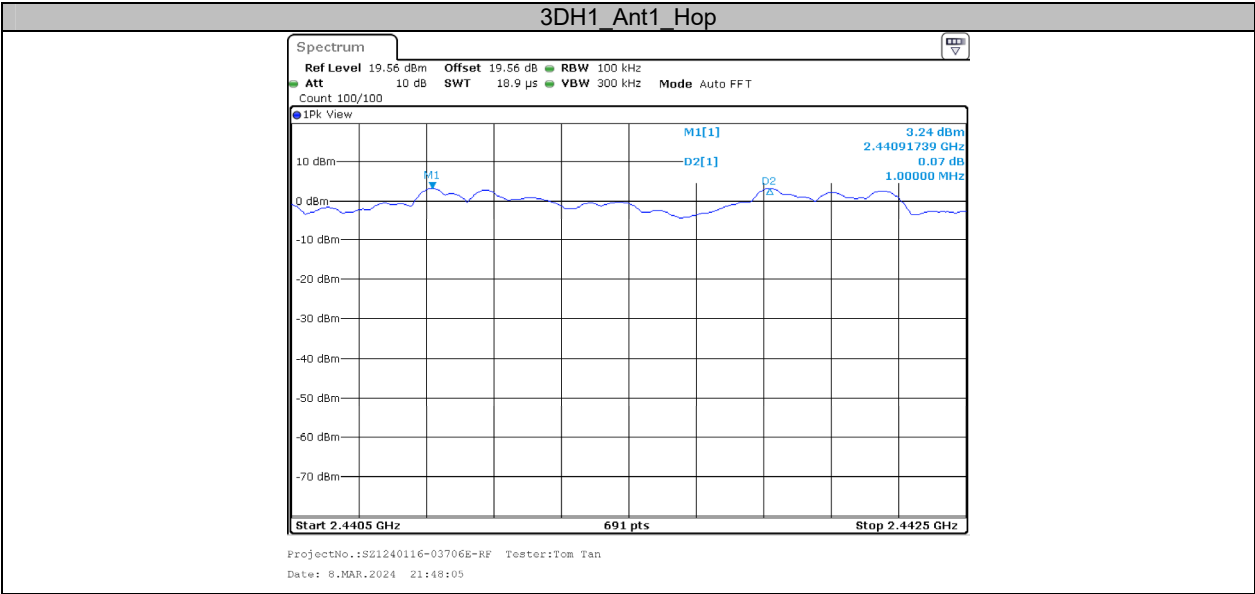


**Appendix D: Carrier frequency separation****Test Result**

| Test Mode | Antenna | Channel | Result[MHz] | Limit[MHz]   | Verdict |
|-----------|---------|---------|-------------|--------------|---------|
| DH1       | Ant1    | Hop     | 1.003       | $\geq 0.587$ | PASS    |
| 2DH1      | Ant1    | Hop     | 1.003       | $\geq 0.833$ | PASS    |
| 3DH1      | Ant1    | Hop     | 1           | $\geq 0.813$ | PASS    |

## Test Graphs





**Appendix E: Time of occupancy****Test Result**

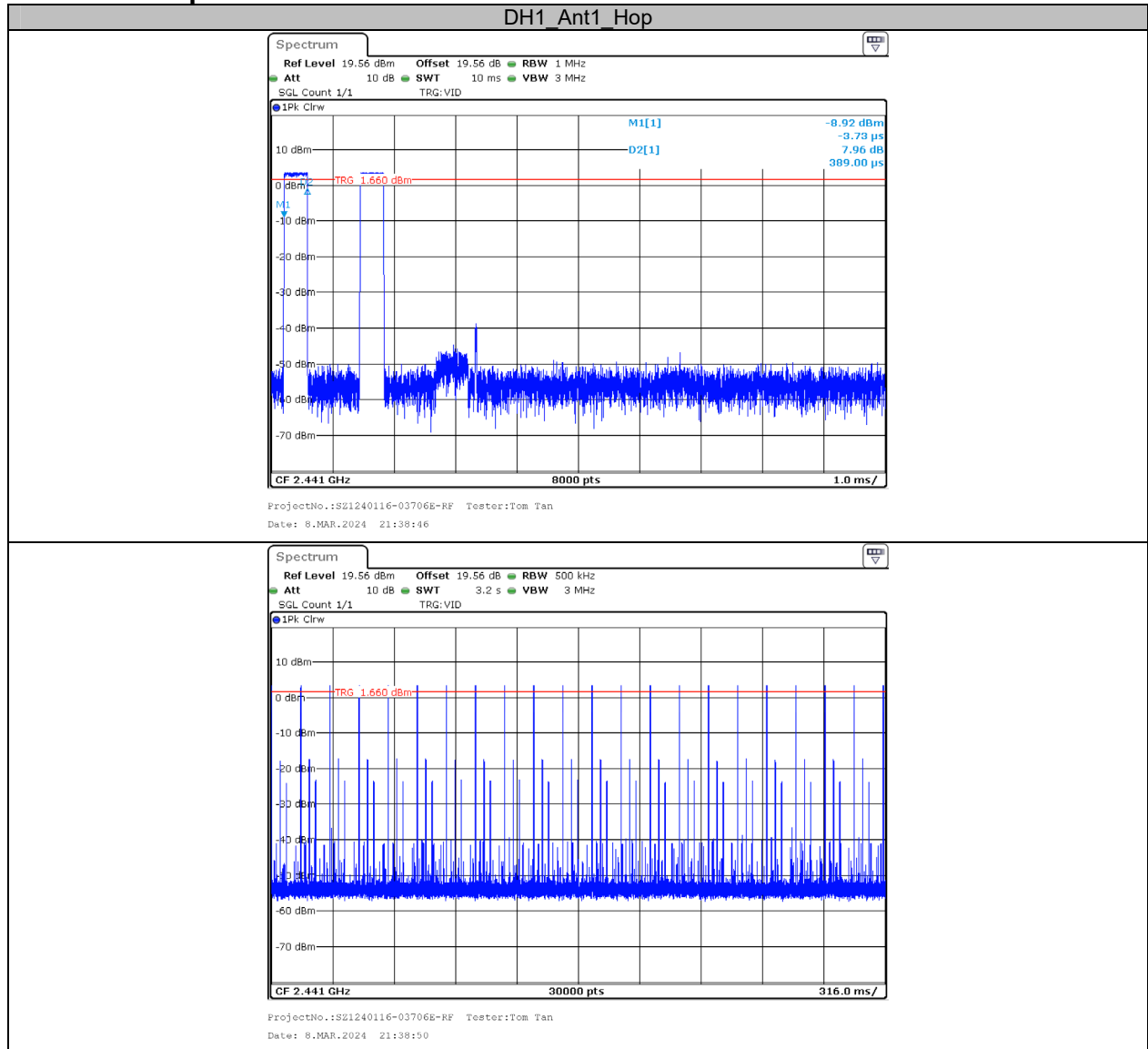
| Test Mode | Antenna | Channel | BurstWidth<br>[ms] | TotalHops<br>[Num] | Result[s] | Limit[s] | Verdict |
|-----------|---------|---------|--------------------|--------------------|-----------|----------|---------|
| DH1       | Ant1    | Hop     | 0.389              | 440                | 0.171     | ≤0.4     | PASS    |
| DH3       | Ant1    | Hop     | 1.638              | 160                | 0.262     | ≤0.4     | PASS    |
| DH5       | Ant1    | Hop     | 2.878              | 120                | 0.345     | ≤0.4     | PASS    |
| 2DH1      | Ant1    | Hop     | 0.388              | 440                | 0.171     | ≤0.4     | PASS    |
| 2DH3      | Ant1    | Hop     | 1.633              | 140                | 0.229     | ≤0.4     | PASS    |
| 2DH5      | Ant1    | Hop     | 2.873              | 110                | 0.316     | ≤0.4     | PASS    |
| 3DH1      | Ant1    | Hop     | 0.386              | 370                | 0.143     | ≤0.4     | PASS    |
| 3DH3      | Ant1    | Hop     | 1.630              | 160                | 0.261     | ≤0.4     | PASS    |
| 3DH5      | Ant1    | Hop     | 2.873              | 110                | 0.316     | ≤0.4     | PASS    |

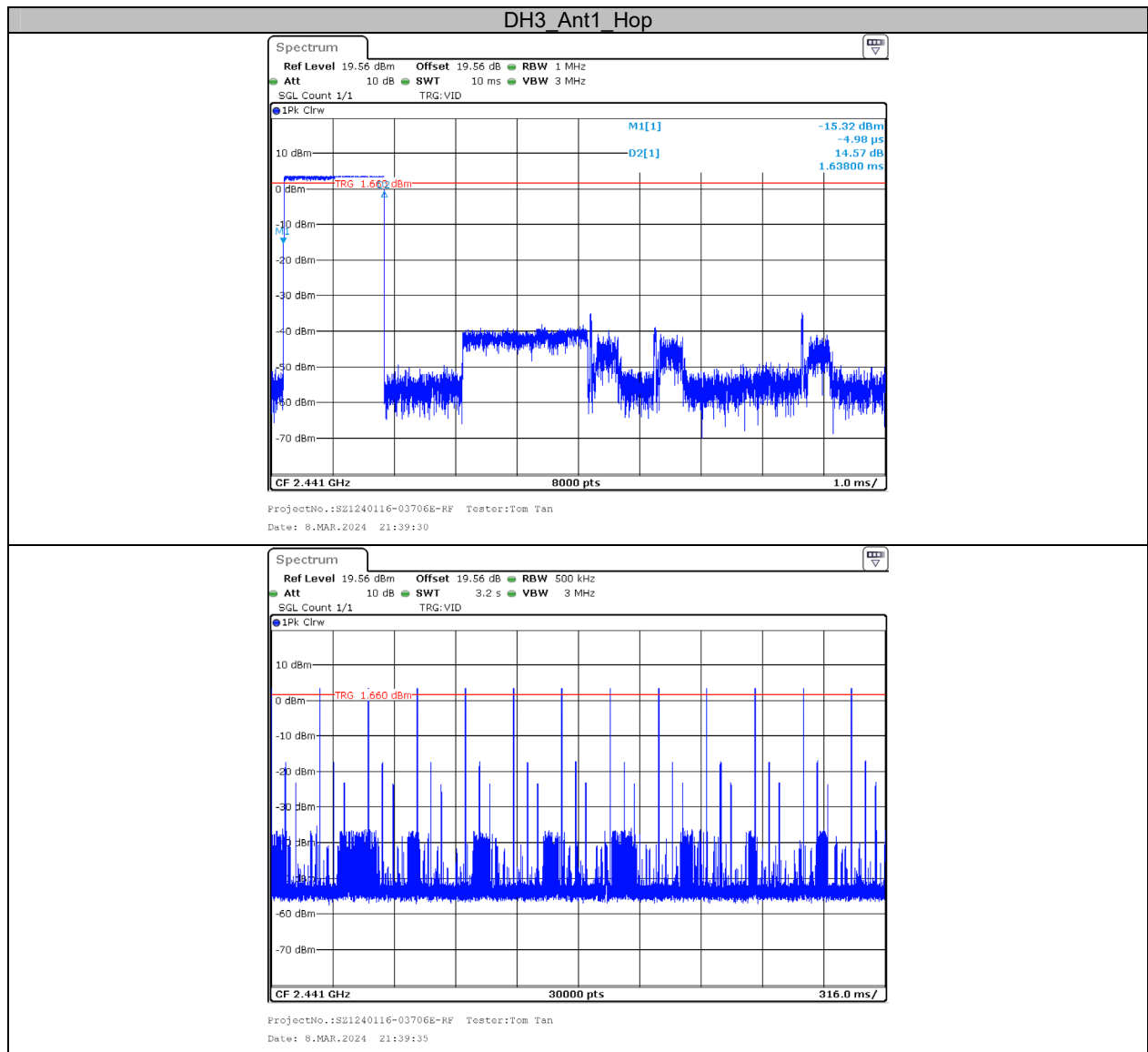
Note 1: A period time= $0.4 \times 79 = 31.6$ (S), Result=BurstWidth\*Totalhops

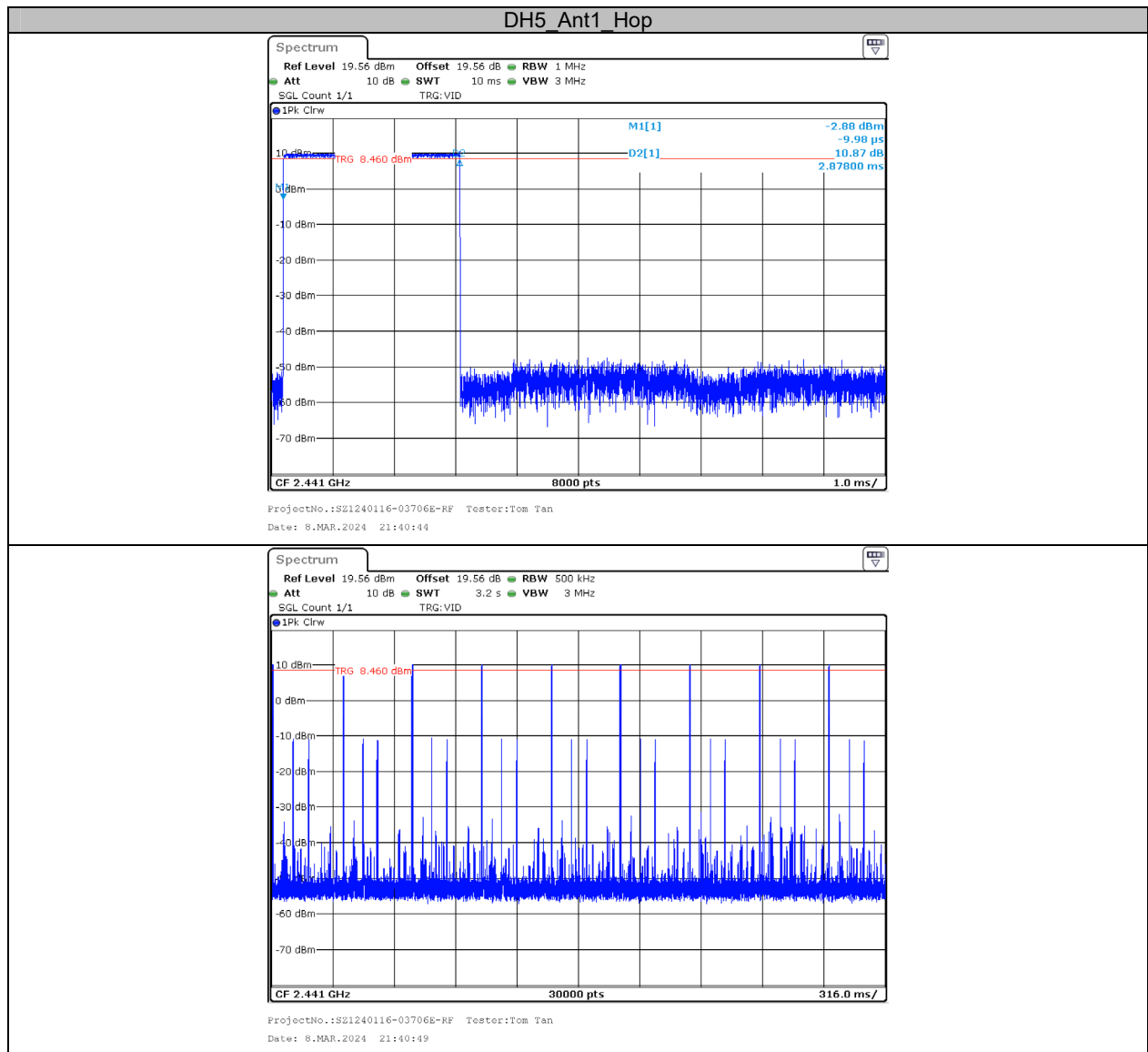
Note 2: Totalhops=Hopping Number in  $3.16\text{s} \times 10$

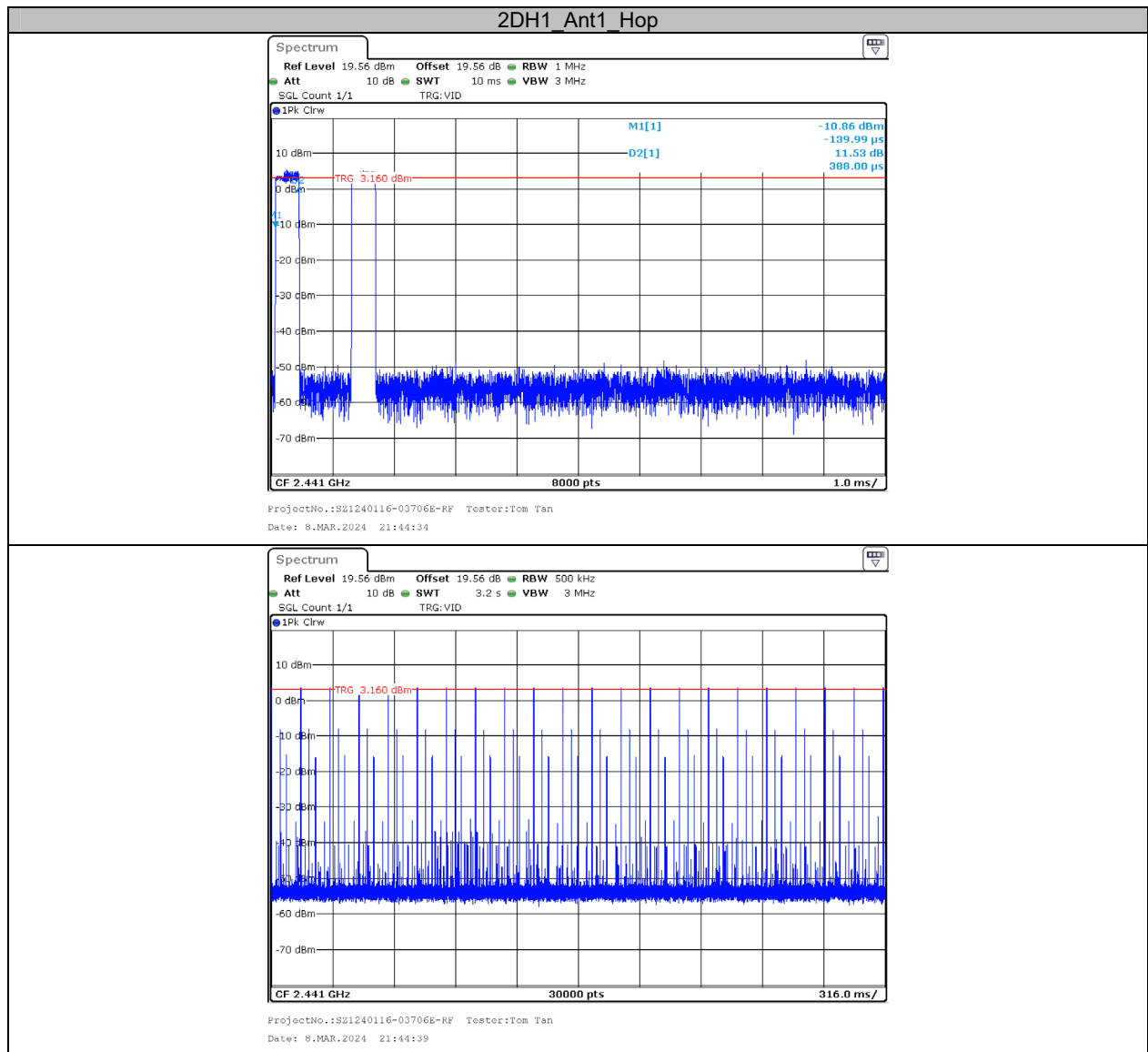
Note 3: Hopping Number in  $3.16\text{s}$ =Total of highest signals in  $3.16\text{s}$ (Second high signals were other channel)

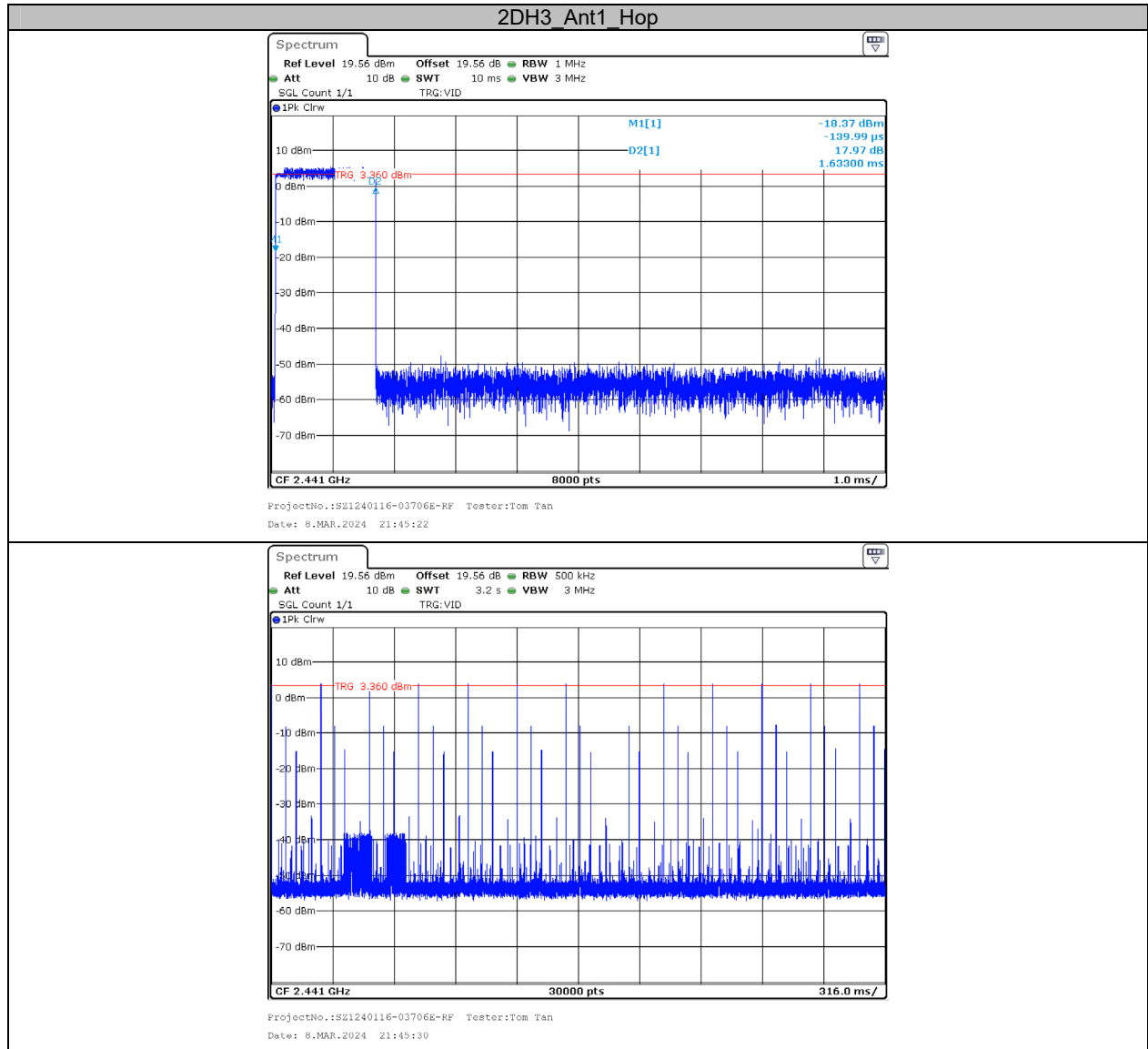
## Test Graphs

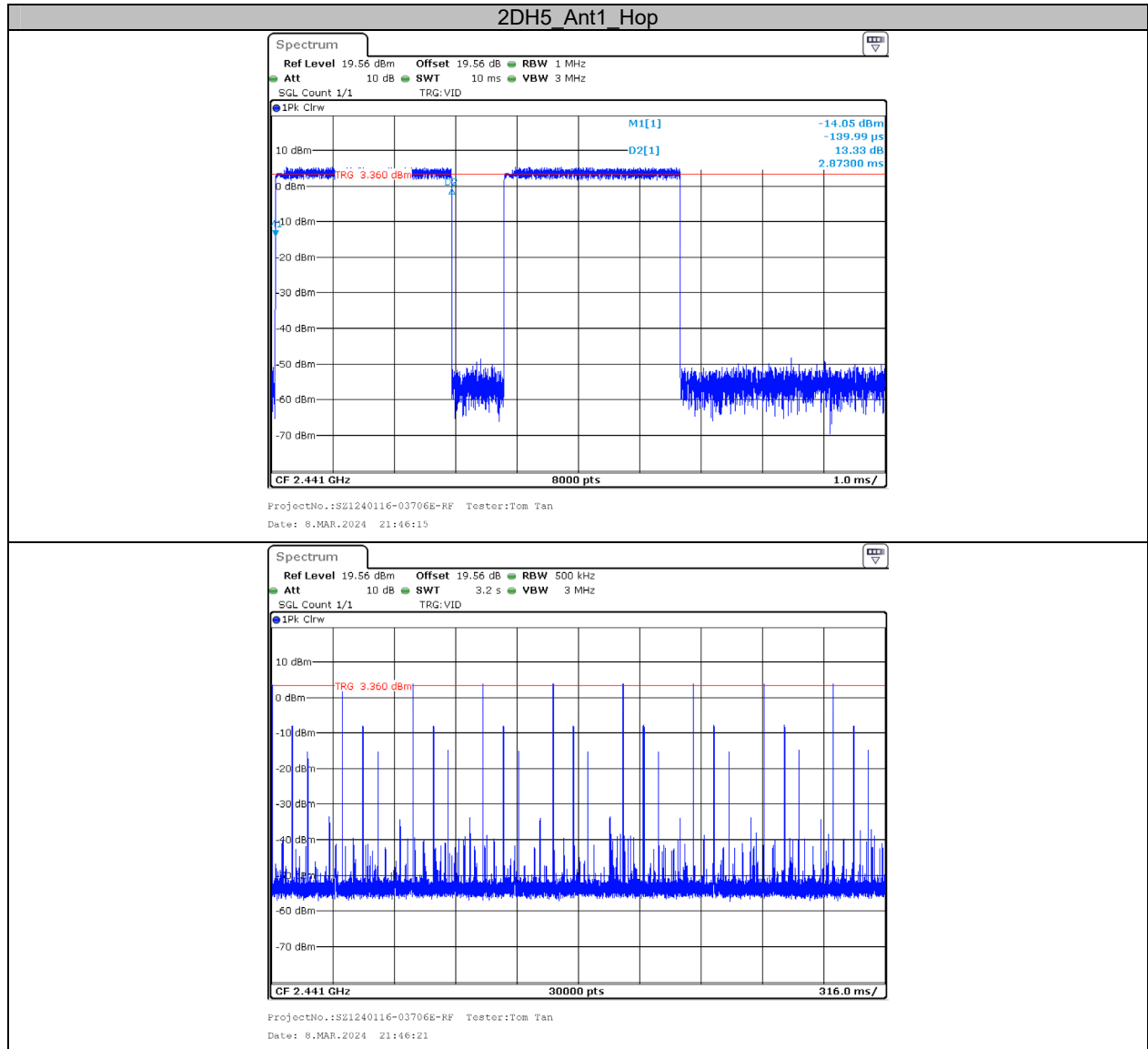


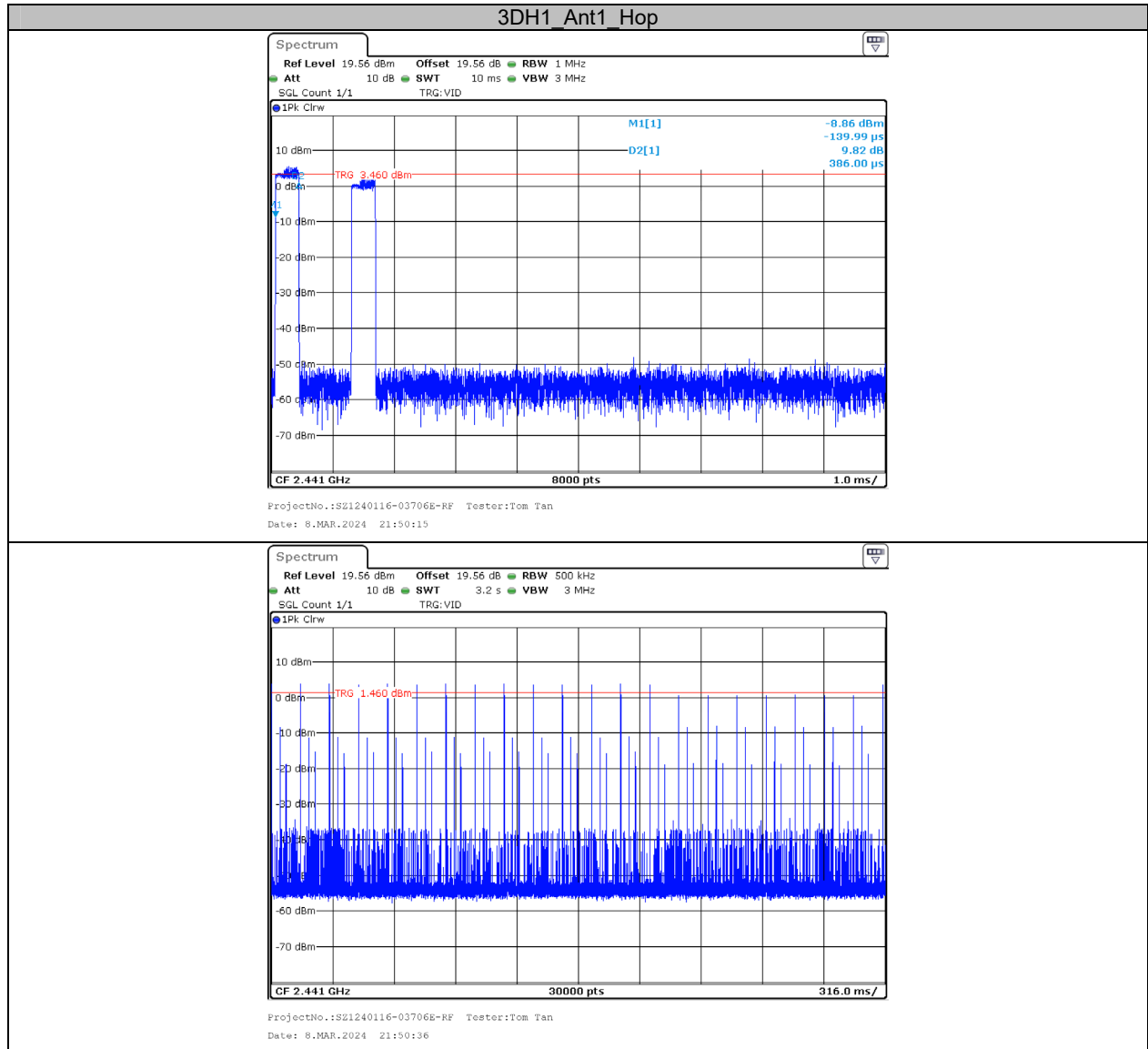


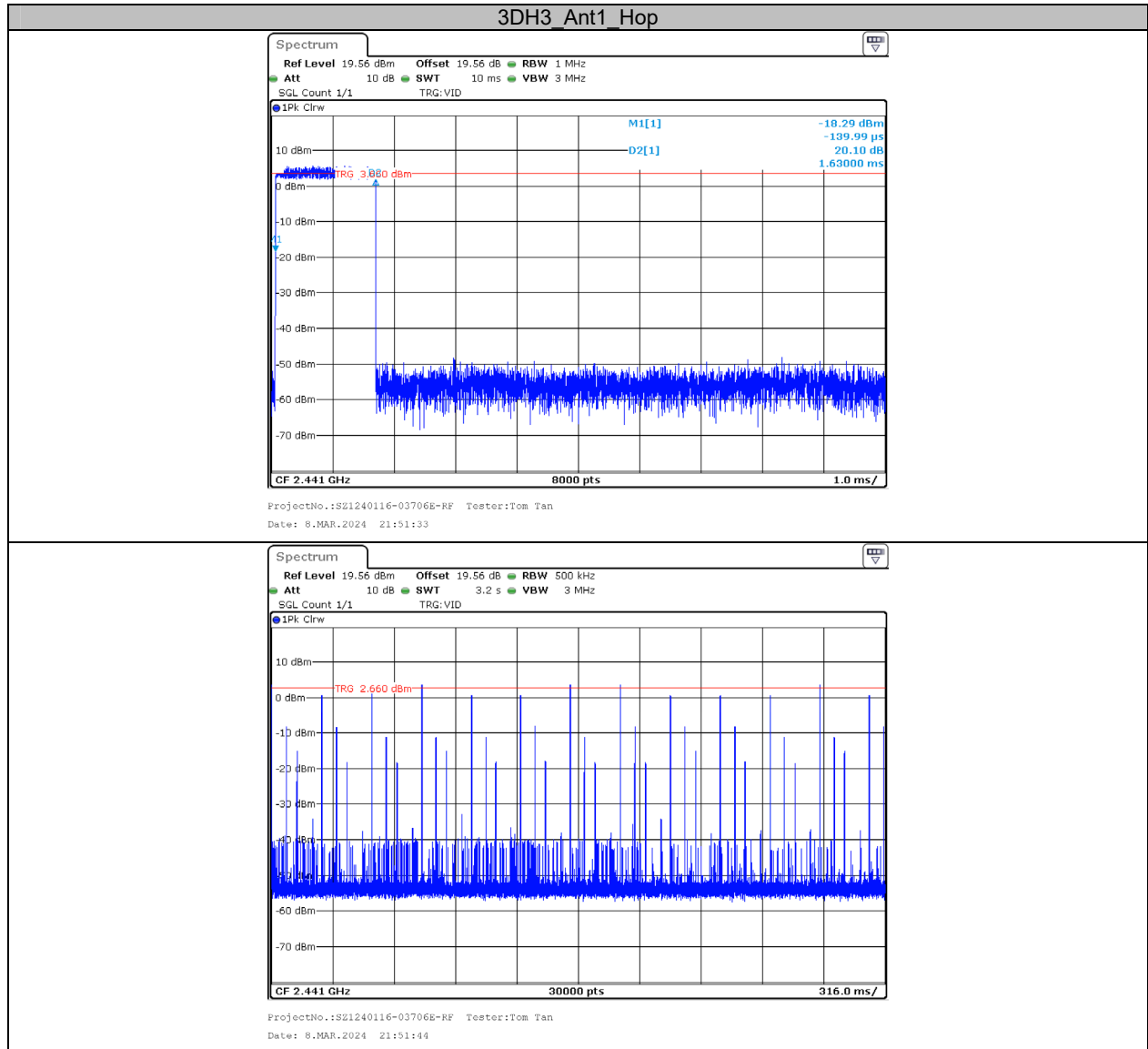


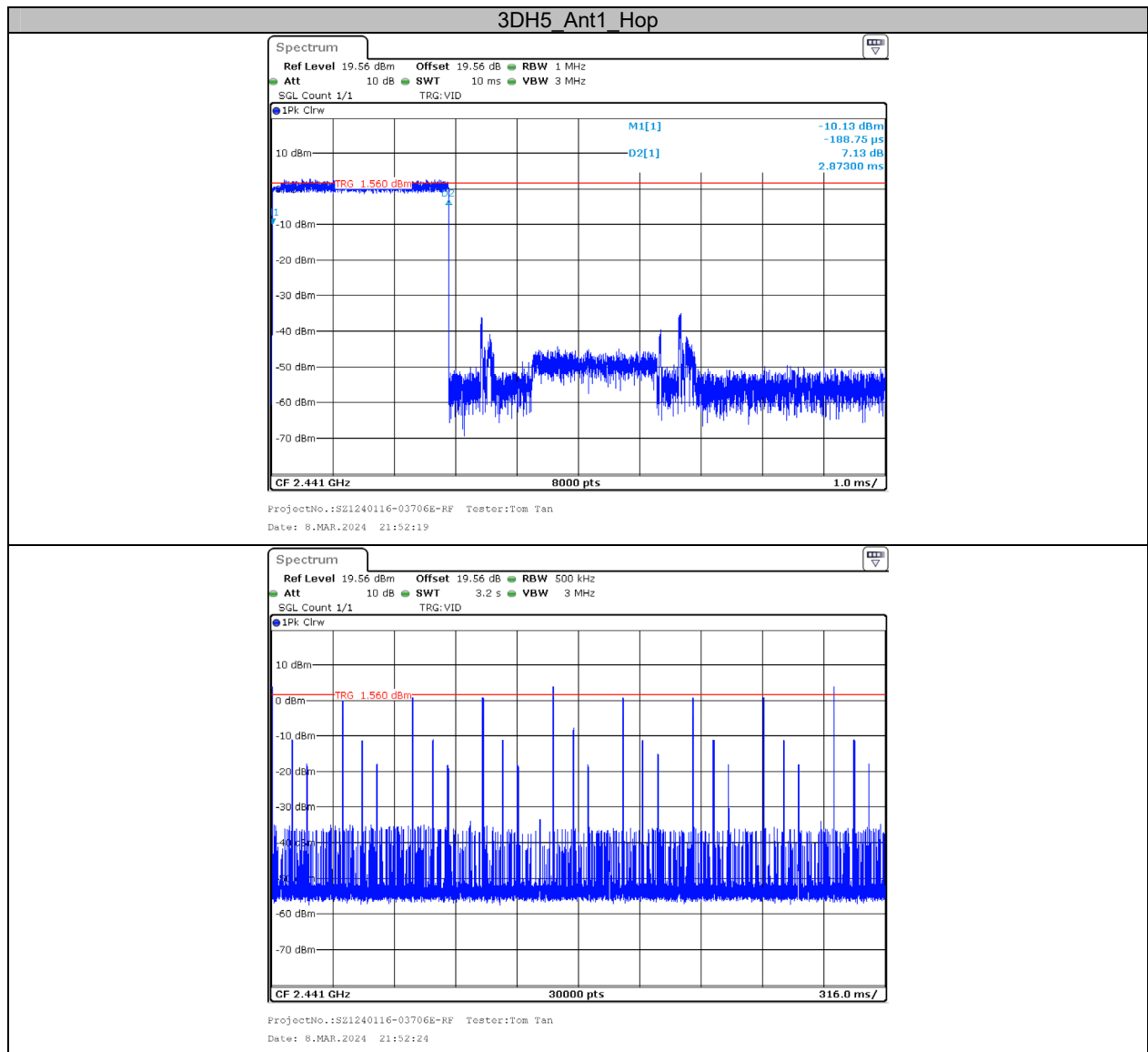










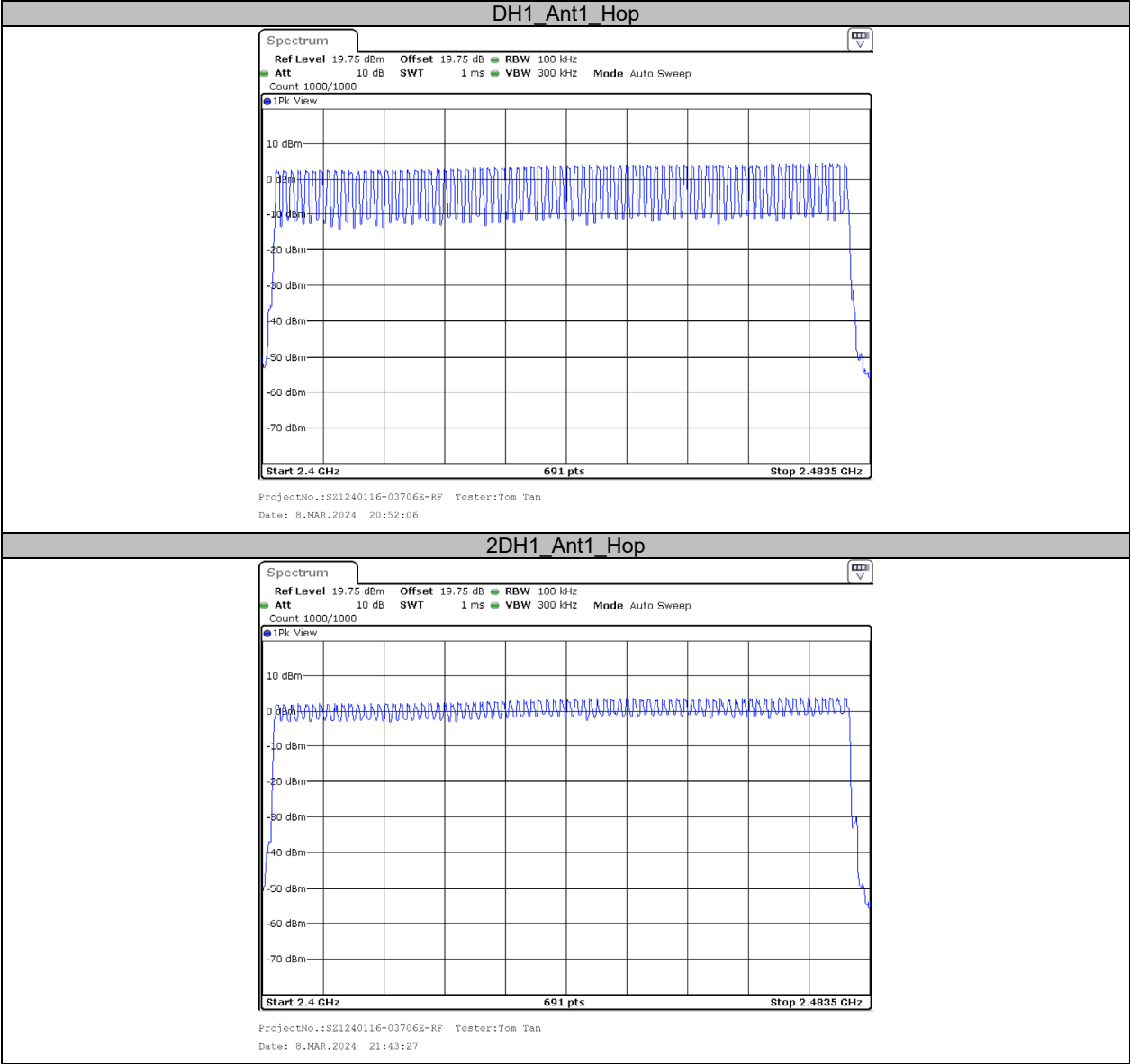


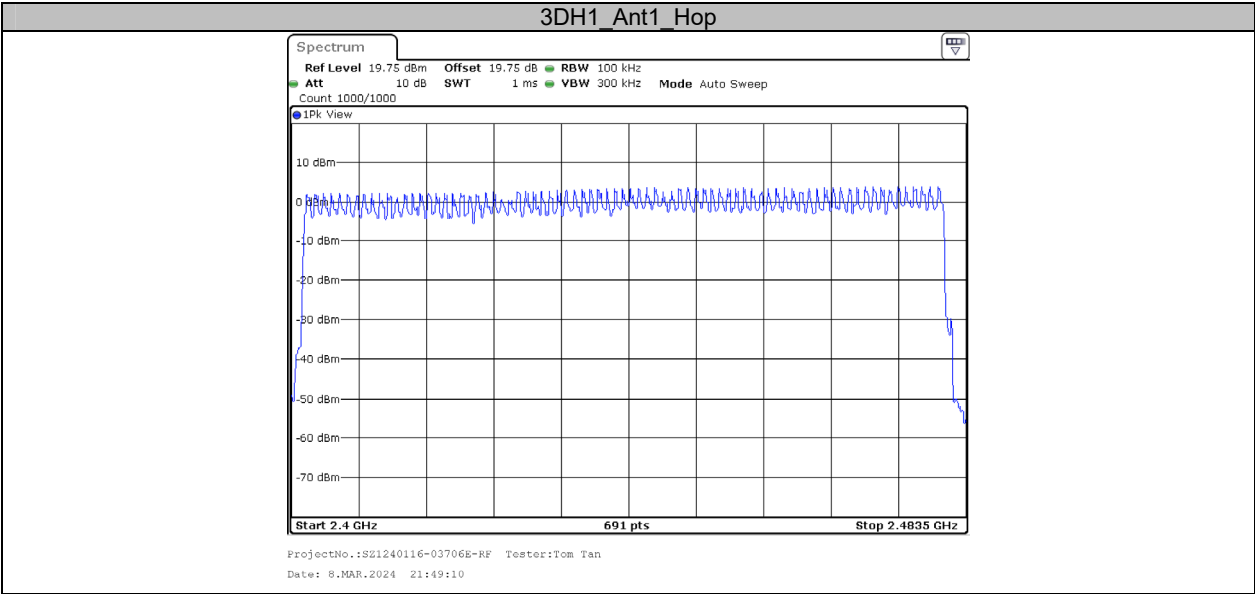
Appendix F: Number of hopping channels

Test Result

| Test Mode | Antenna | Channel | Result[Num] | Limit[Num] | Verdict |
|-----------|---------|---------|-------------|------------|---------|
| DH1       | Ant1    | Hop     | 79          | ≥15        | PASS    |
| 2DH1      | Ant1    | Hop     | 79          | ≥15        | PASS    |
| 3DH1      | Ant1    | Hop     | 79          | ≥15        | PASS    |

Test Graphs





Appendix G: Band edge measurements

Test Graphs

