

# ANNEX TEST DATA EDR

## FCC ID: 2BD9O-TG5050-1

Applicant: HUIZHOU RONG YE JIA ELECTRONICS CO., LTD

Address: 172. No.1 Baiyun Road, Danshui Town, Huiyang District.Huizhou, Guangdong, China

Manufacturer: HUIZHOU RONG YE JIA ELECTRONICS CO., LTD

Address: 172. No.1 Baiyun Road, Danshui Town, Huiyang District.Huizhou, Guangdong, China

Product Name: SMART PRO S

Trade Mark: TRIMUI

Model Number: TG5050

Date of Receipt: Sep. 10, 2026

Test Date: Sep. 10, 2026 – Sep. 21, 2026

Date of Report: Sep. 21, 2026

Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

Applicable Standards: FCC PART 15 C 15.247  
ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

Test Result: Pass

Report Number: DLE-260910006R

## 1. Bandwidth

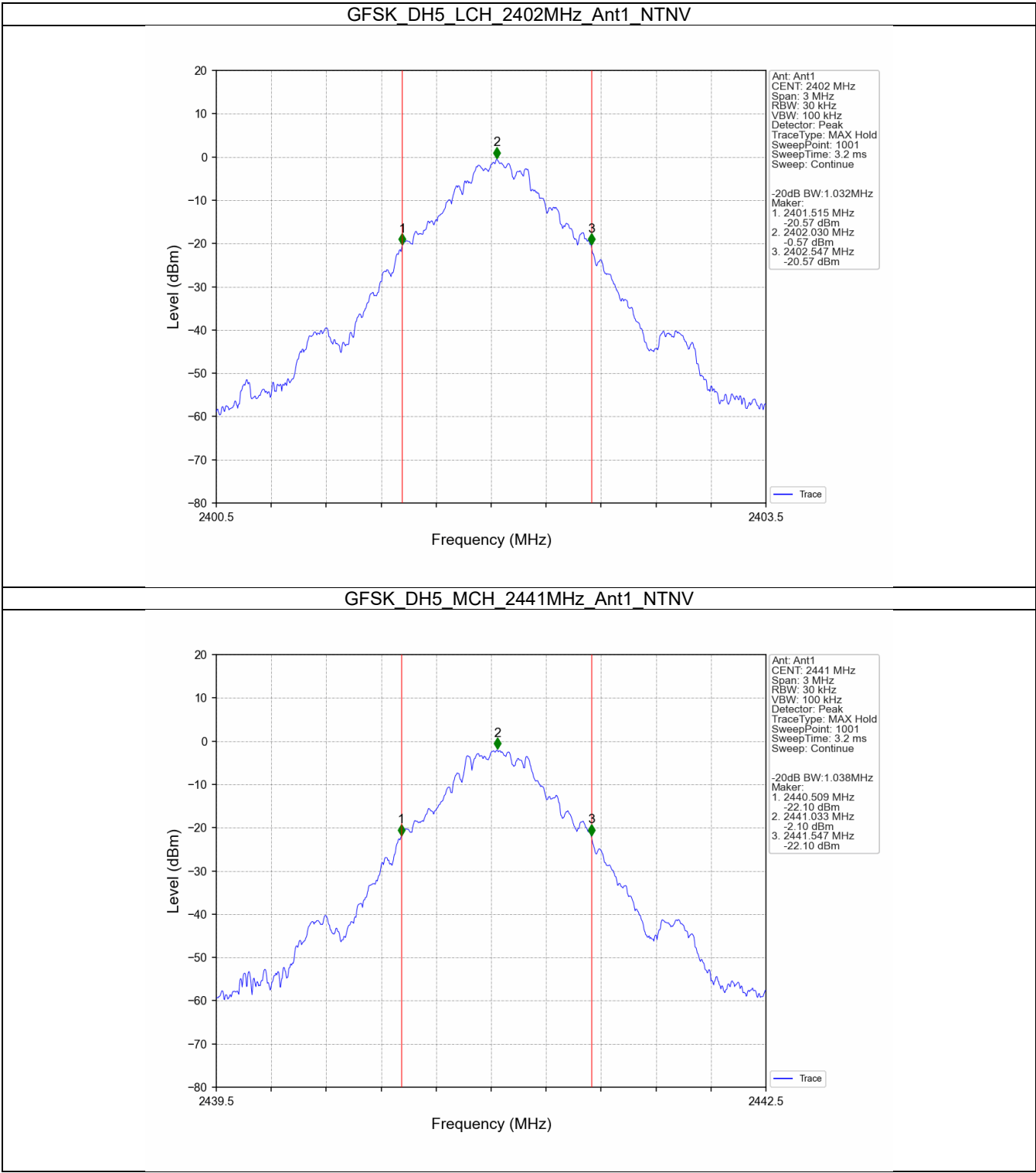
### 1.1 Test Result

#### 1.1.1 20dB BW

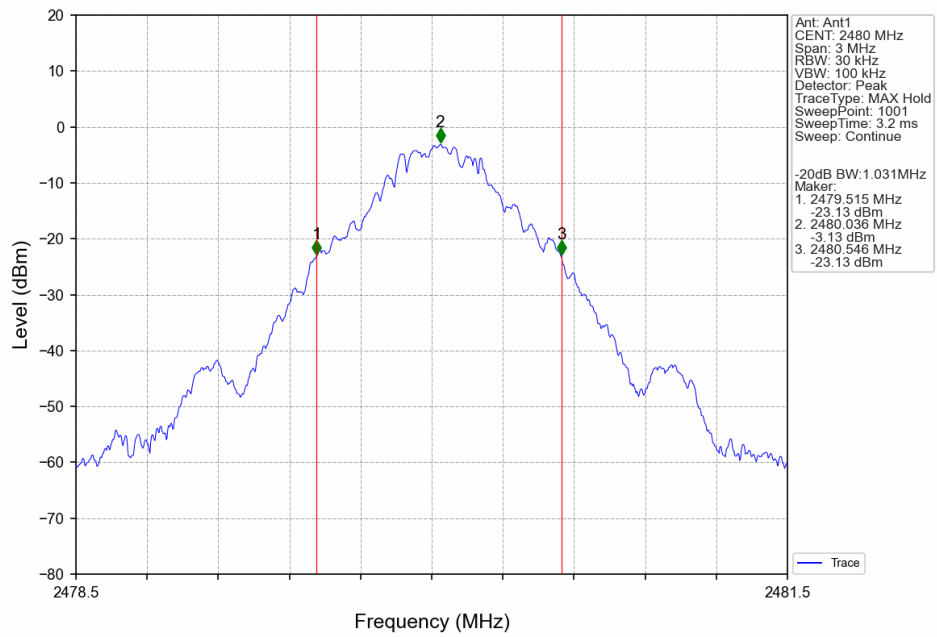
| Mode      | TX Type | Frequency (MHz) | Packet Type | ANT | 20dB Bandwidth (MHz) |       | Verdict |
|-----------|---------|-----------------|-------------|-----|----------------------|-------|---------|
|           |         |                 |             |     | Result               | Limit |         |
| GFSK      | SISO    | 2402            | DH5         | 1   | 1.032                | /     | Pass    |
|           |         | 2441            | DH5         | 1   | 1.038                | /     | Pass    |
|           |         | 2480            | DH5         | 1   | 1.031                | /     | Pass    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 1   | 1.318                | /     | Pass    |
|           |         | 2441            | 2DH5        | 1   | 1.315                | /     | Pass    |
|           |         | 2480            | 2DH5        | 1   | 1.316                | /     | Pass    |
| 8DPSK     | SISO    | 2402            | 3DH5        | 1   | 1.302                | /     | Pass    |
|           |         | 2441            | 3DH5        | 1   | 1.301                | /     | Pass    |
|           |         | 2480            | 3DH5        | 1   | 1.304                | /     | Pass    |

# 1.2 Test Graph

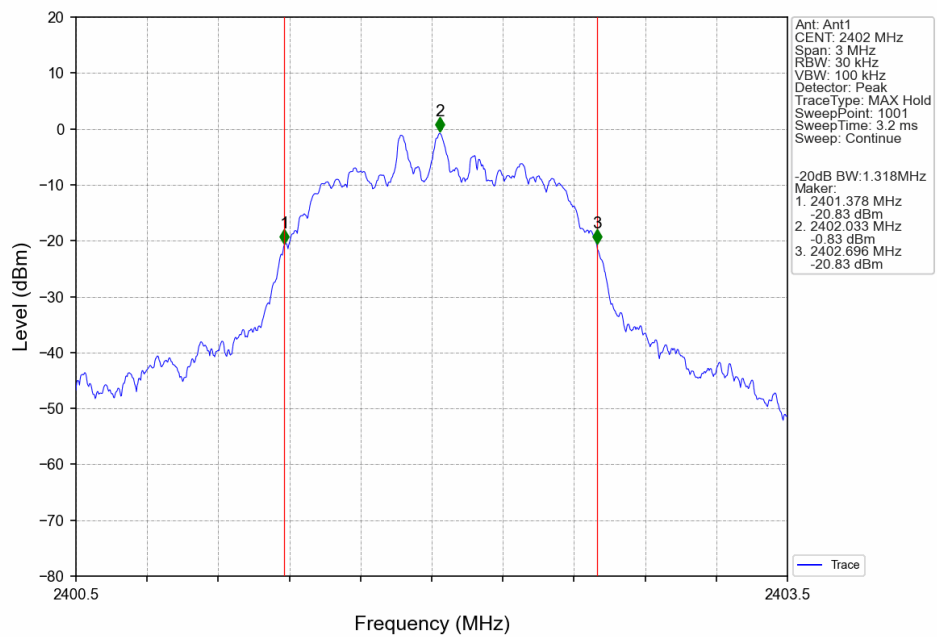
## 1.2.1 20dB BW



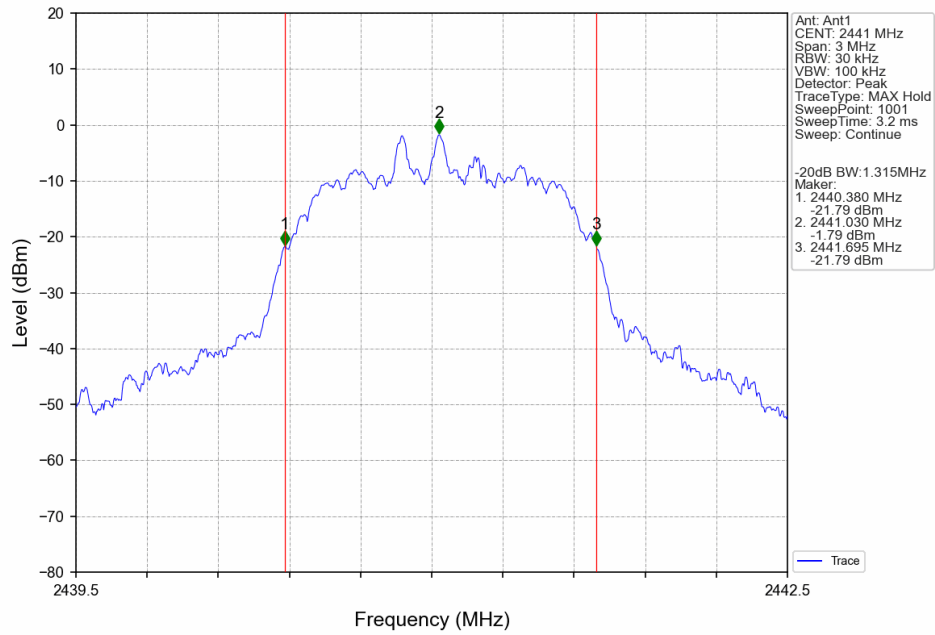
# GFSK DH5 HCH 2480MHz Ant1 NTNV



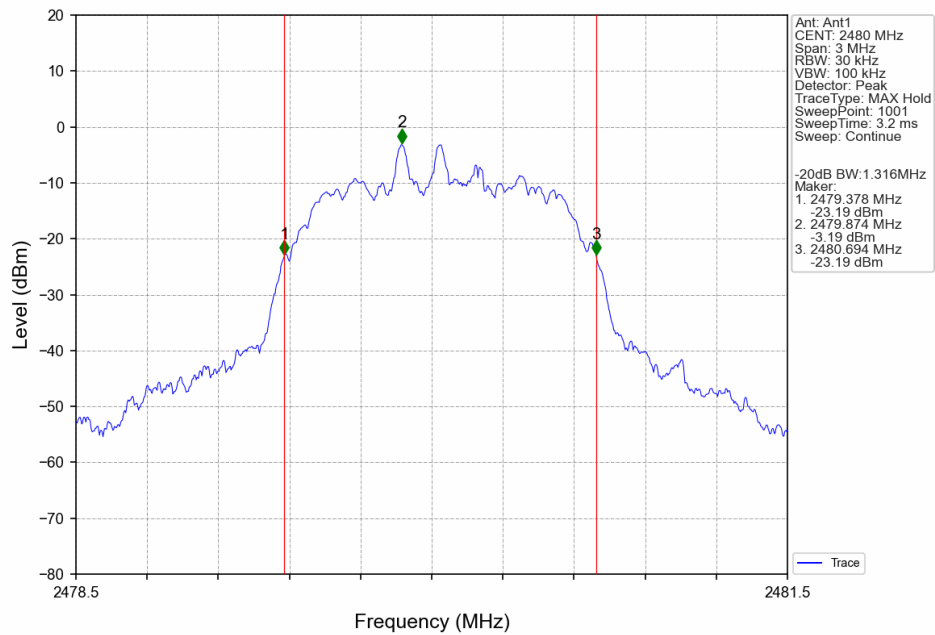
# Pi/4DQPSK 2DH5 LCH 2402MHz Ant1 NTNV



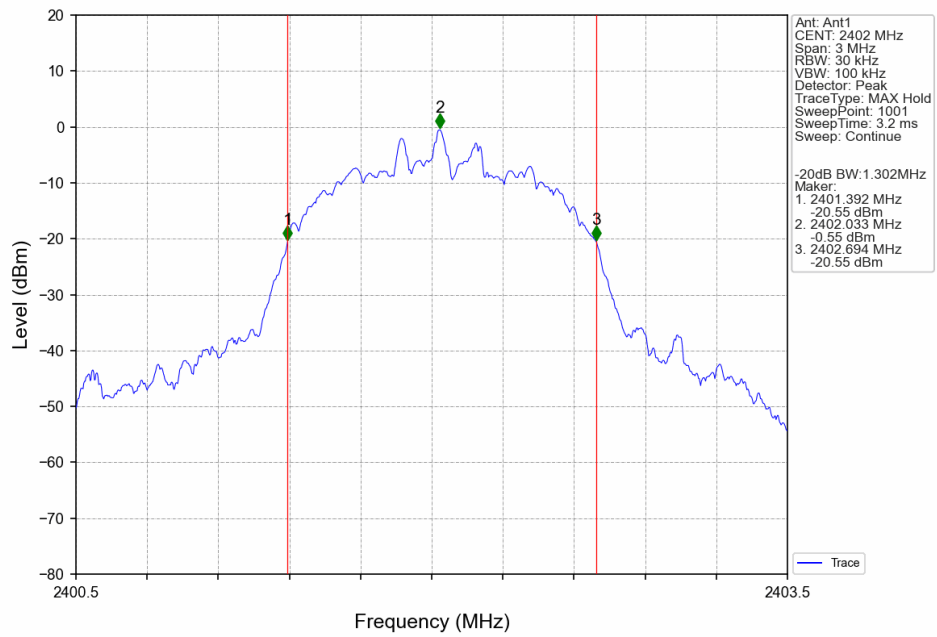
Pi/4DQPSK 2DH5 MCH 2441MHz Ant1 NTNV



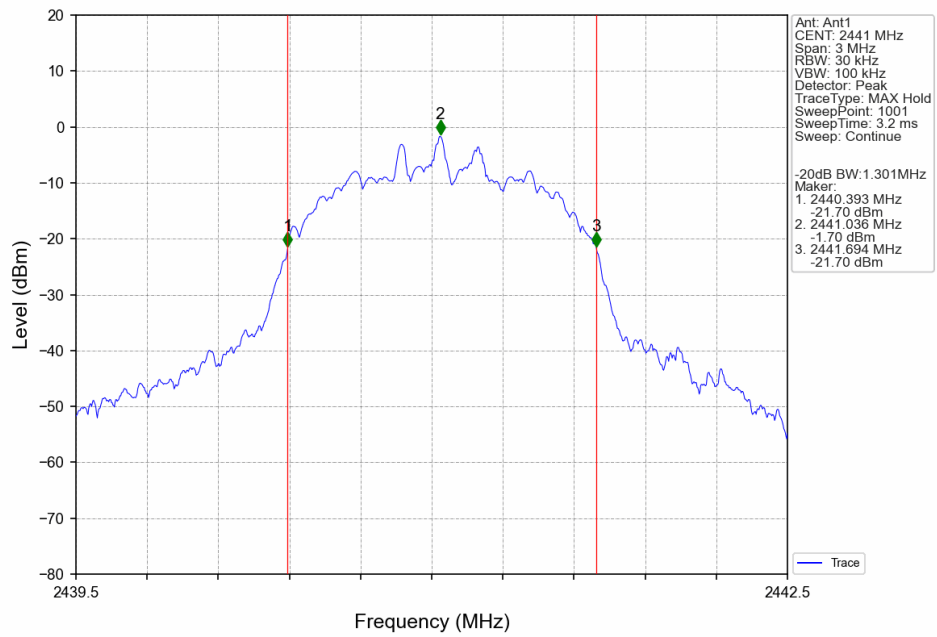
Pi/4DQPSK 2DH5 HCH 2480MHz Ant1 NTNV



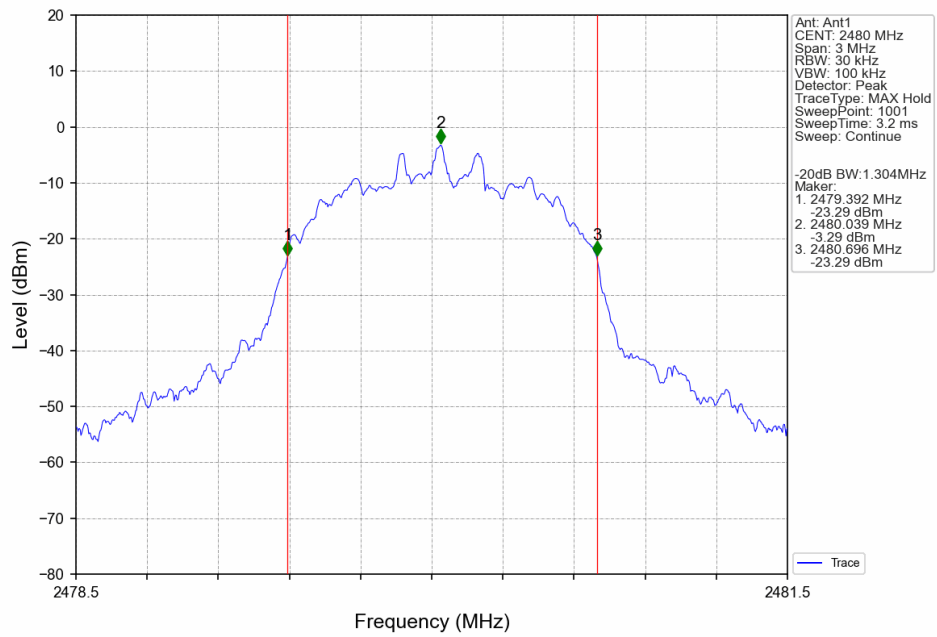
# 8DPSK 3DH5 LCH 2402MHz Ant1 NTN



# 8DPSK 3DH5 MCH 2441MHz Ant1 NTN



# 8DPSK 3DH5 HCH 2480MHz Ant1 NTN



## 2. Maximum Conducted Output Power

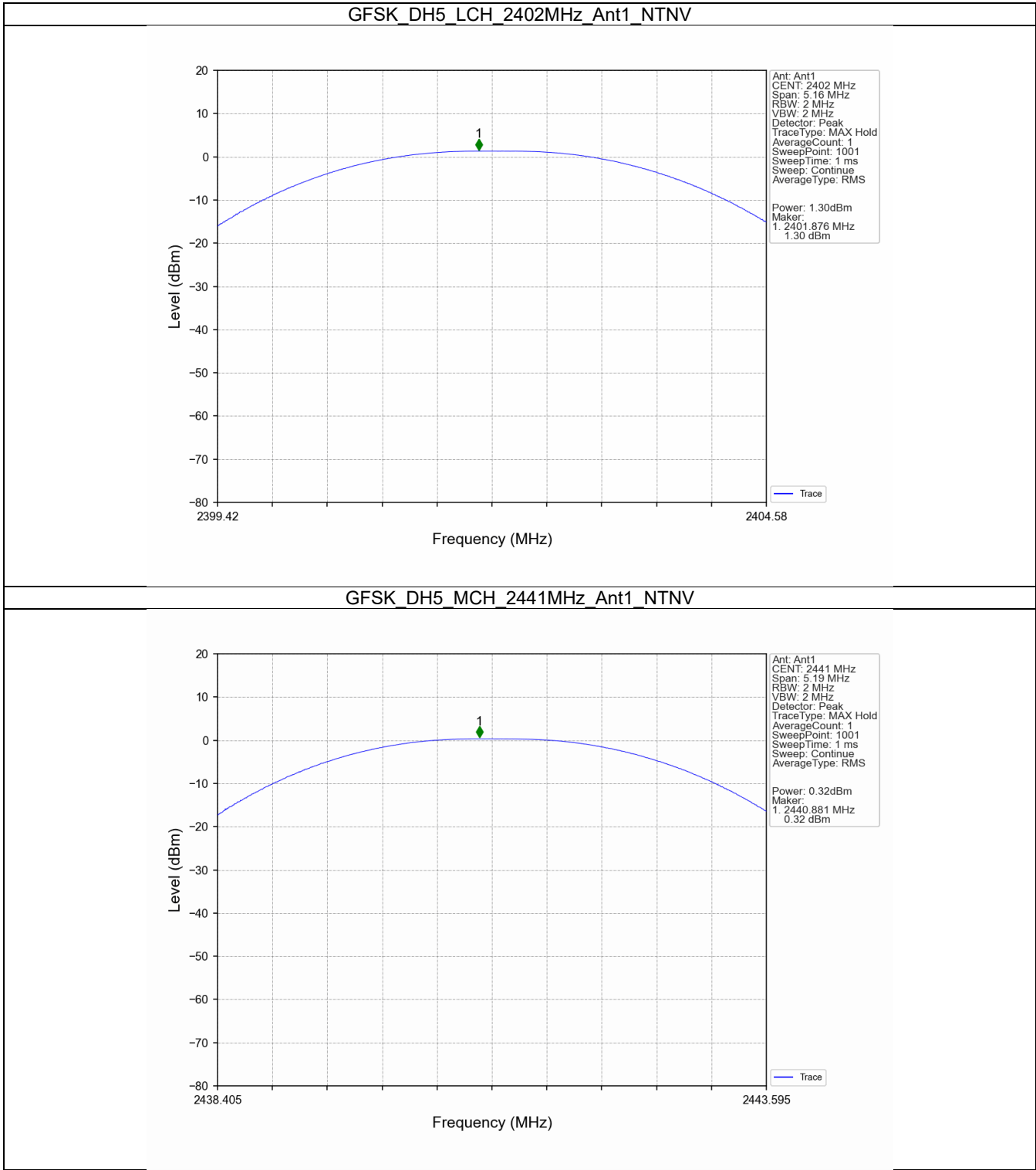
### 2.1 Test Result

#### 2.1.1 Power

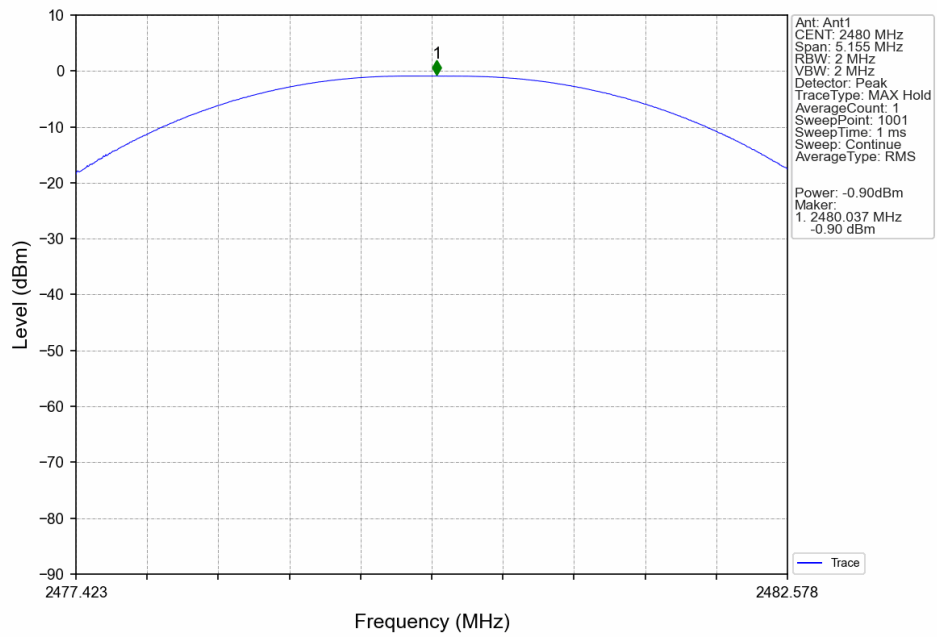
| Mode      | TX Type | Frequency (MHz) | Packet Type | Maximum Peak Conducted Output Power (dBm) |              | Verdict |
|-----------|---------|-----------------|-------------|-------------------------------------------|--------------|---------|
|           |         |                 |             | ANT1                                      | Limit        |         |
| GFSK      | SISO    | 2402            | DH5         | 1.30                                      | $\leq 20.97$ | Pass    |
|           |         | 2441            | DH5         | 0.32                                      | $\leq 20.97$ | Pass    |
|           |         | 2480            | DH5         | -0.90                                     | $\leq 20.97$ | Pass    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 2.12                                      | $\leq 20.97$ | Pass    |
|           |         | 2441            | 2DH5        | 1.19                                      | $\leq 20.97$ | Pass    |
|           |         | 2480            | 2DH5        | -0.06                                     | $\leq 20.97$ | Pass    |
| 8DPSK     | SISO    | 2402            | 3DH5        | 2.45                                      | $\leq 20.97$ | Pass    |
|           |         | 2441            | 3DH5        | 1.51                                      | $\leq 20.97$ | Pass    |
|           |         | 2480            | 3DH5        | 0.23                                      | $\leq 20.97$ | Pass    |

2.2 Test Graph

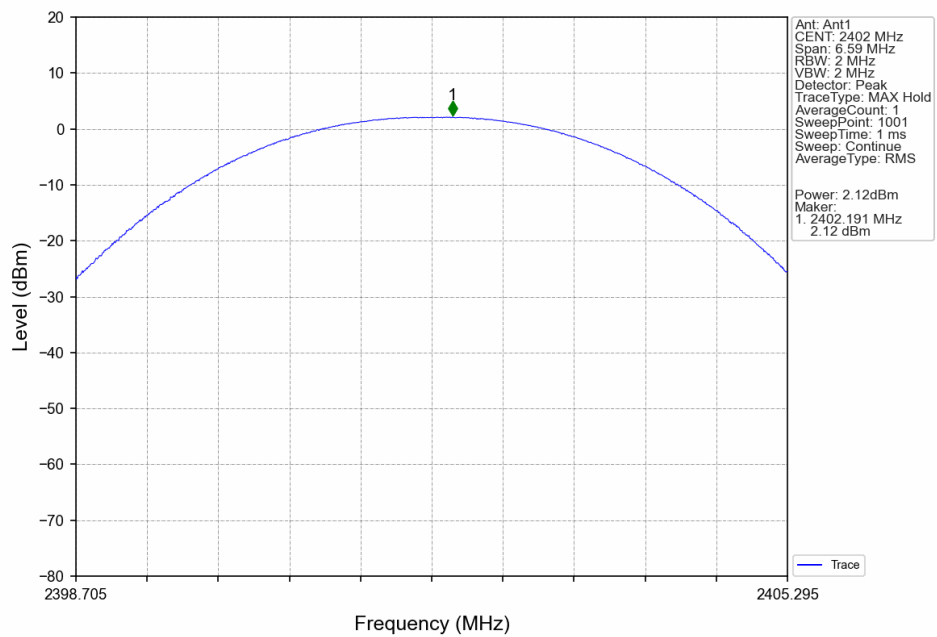
2.2.1 Power



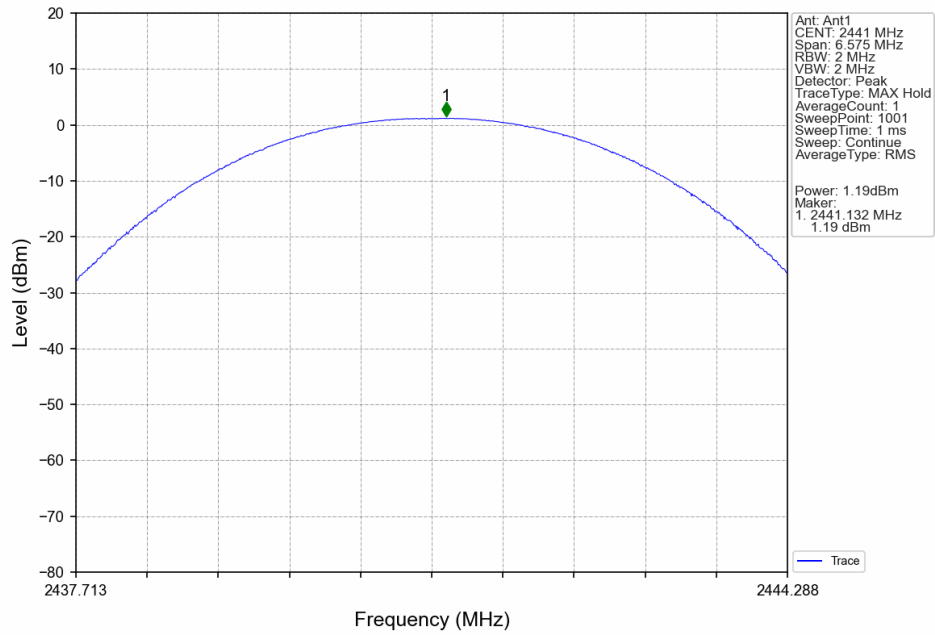
# GFSK DH5 HCH 2480MHz Ant1 NTV



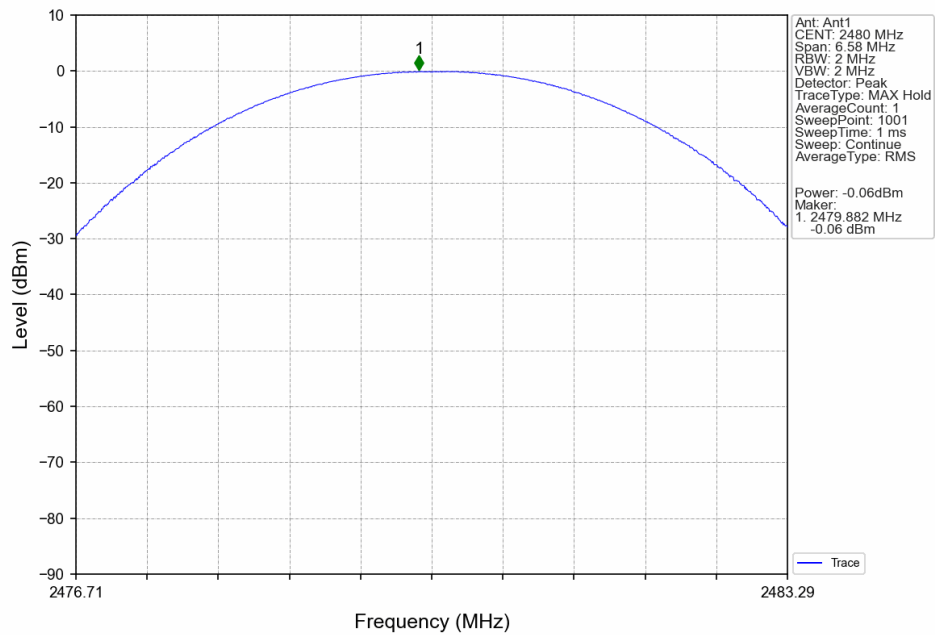
# Pi/4DQPSK 2DH5 LCH 2402MHz Ant1 NTV



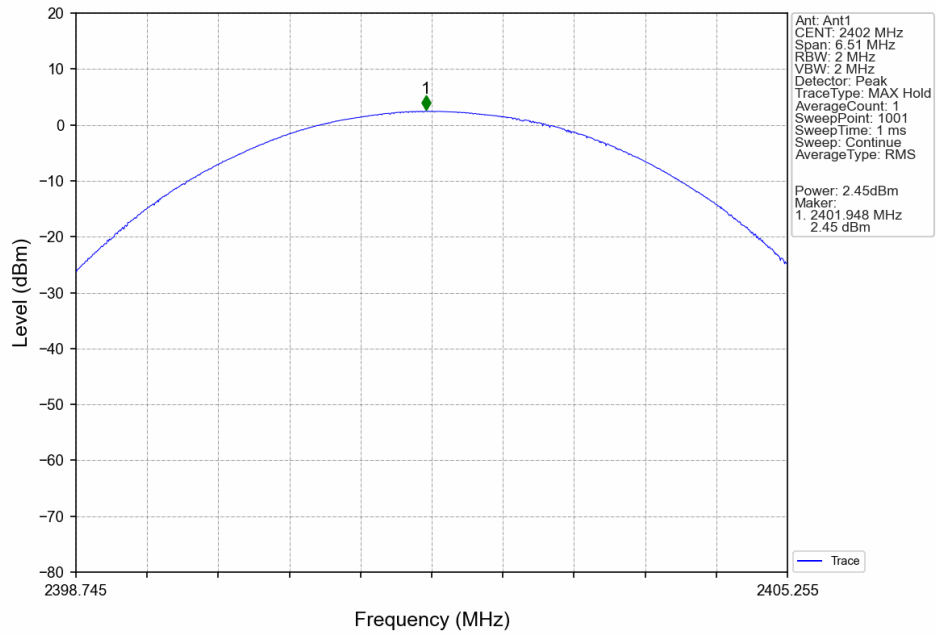
Pi/4DQPSK 2DH5 MCH 2441MHz Ant1 NTV



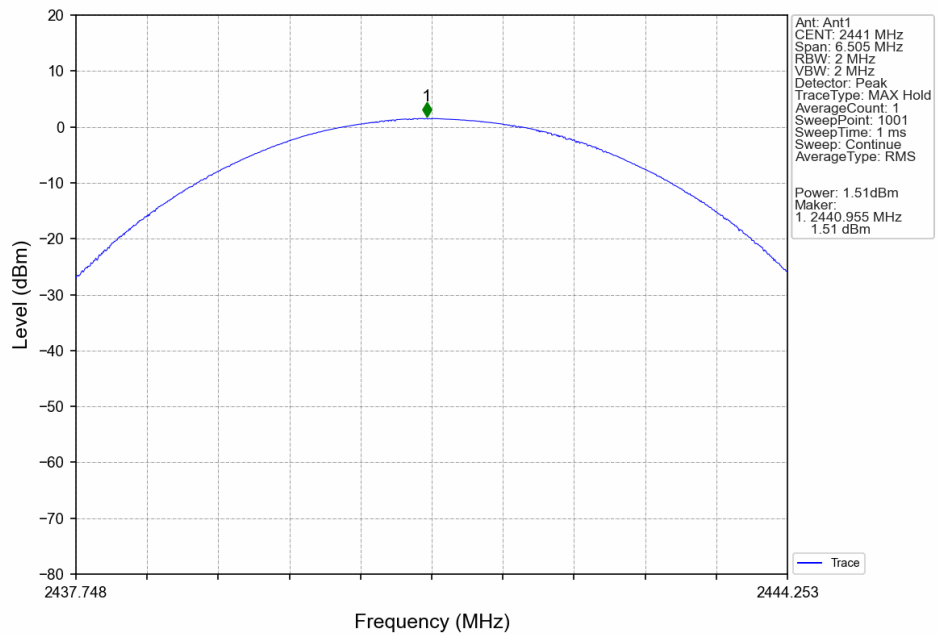
Pi/4DQPSK 2DH5 HCH 2480MHz Ant1 NTV



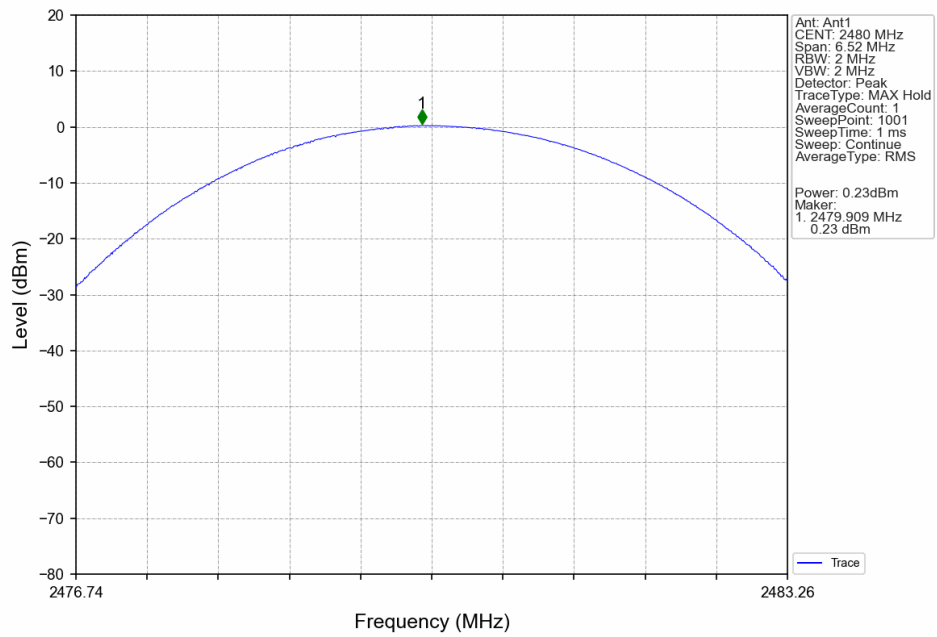
8DPSK 3DH5 LCH 2402MHz Ant1 NTN



8DPSK 3DH5 MCH 2441MHz Ant1 NTN



8DPSK 3DH5 HCH 2480MHz Ant1 NTNV



### 3. Carrier Frequency Separation

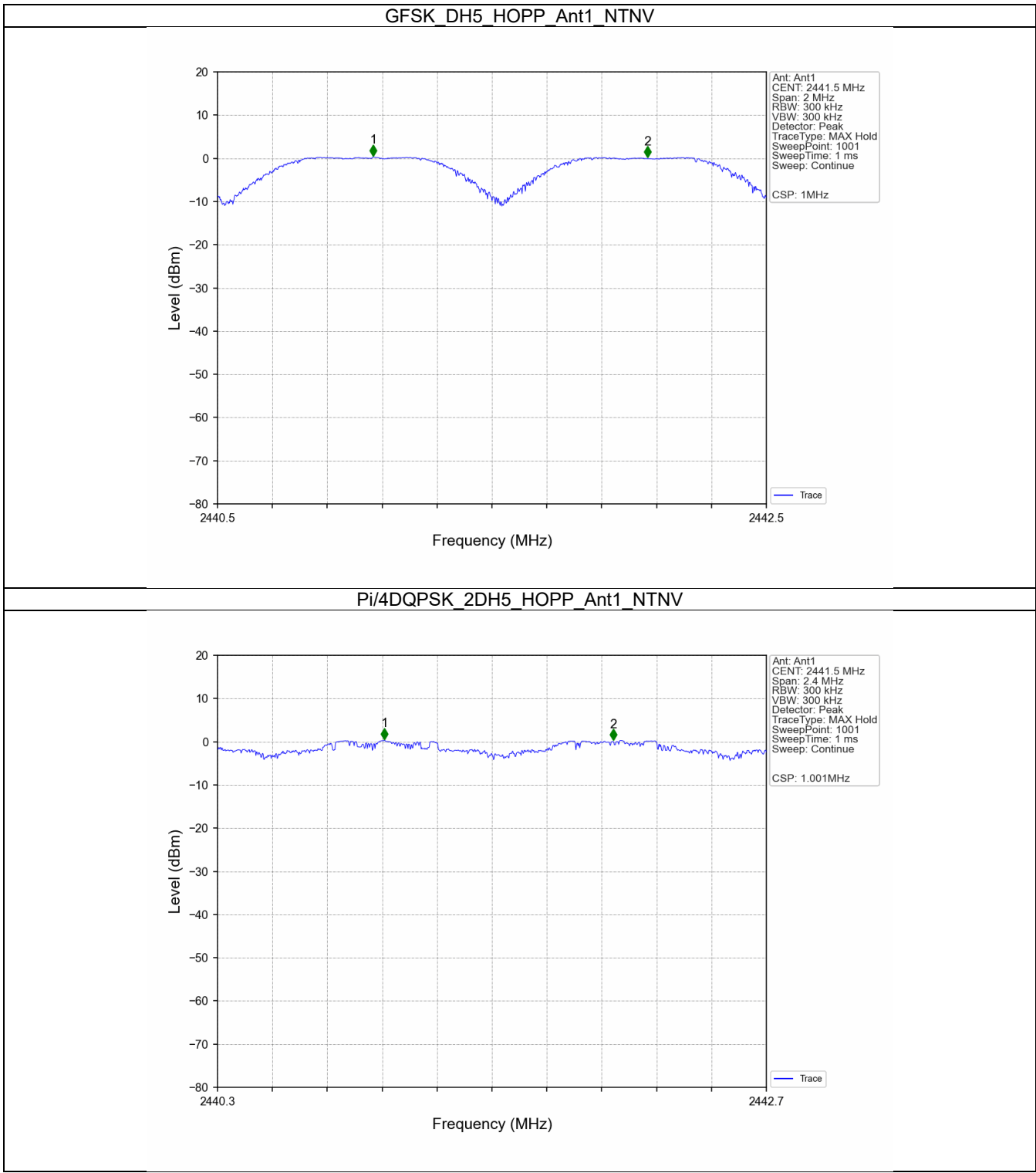
#### 3.1 Test Result

##### 3.1.1 Ant1

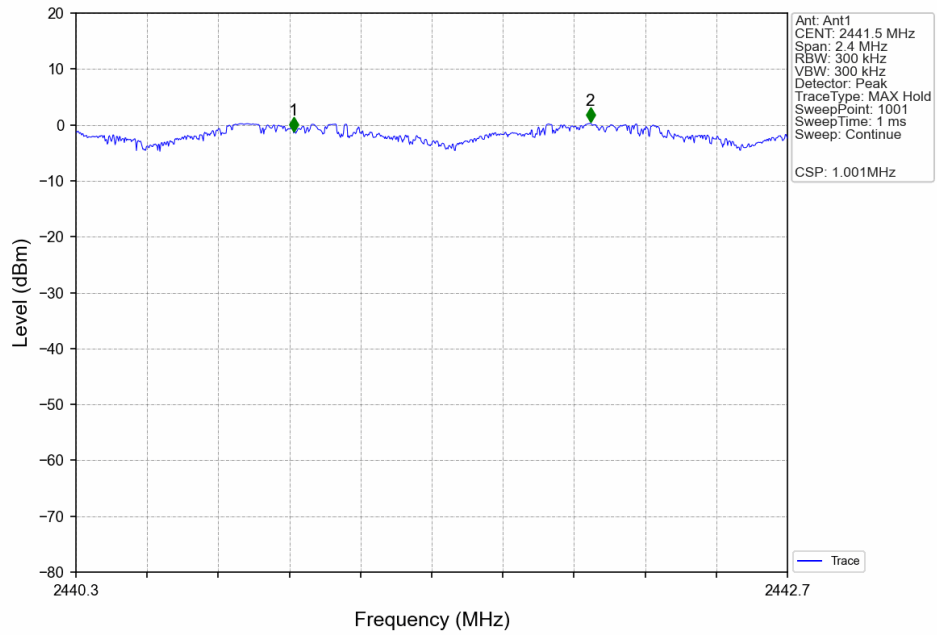
| Ant1      |         |                 |             |                          |                      |              |         |
|-----------|---------|-----------------|-------------|--------------------------|----------------------|--------------|---------|
| Mode      | TX Type | Frequency (MHz) | Packet Type | Channel Separation (MHz) | 20dB Bandwidth (MHz) | Limit (MHz)  | Verdict |
| GFSK      | SISO    | HOPP            | DH5         | 1.000                    | 1.038                | $\geq 0.692$ | Pass    |
| Pi/4DQPSK | SISO    | HOPP            | 2DH5        | 1.001                    | 1.318                | $\geq 0.879$ | Pass    |
| 8DPSK     | SISO    | HOPP            | 3DH5        | 1.001                    | 1.304                | $\geq 0.869$ | Pass    |

### 3.2 Test Graph

#### 3.2.1 Ant1



8DPSK 3DH5 HOPP Ant1 NTN



## 4. Number of Hopping Frequencies

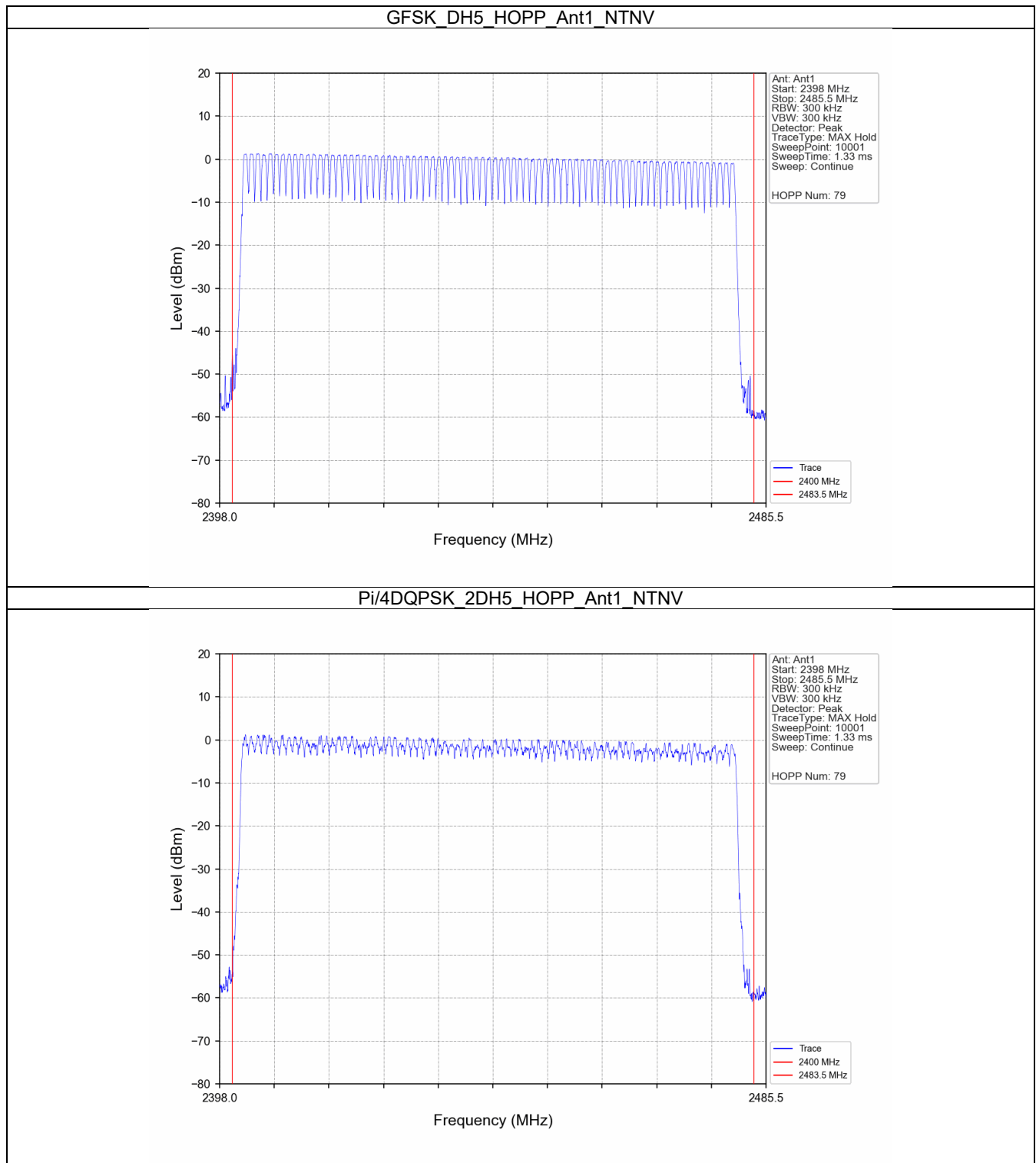
### 4.1 Test Result

#### 4.1.1 HoppNum

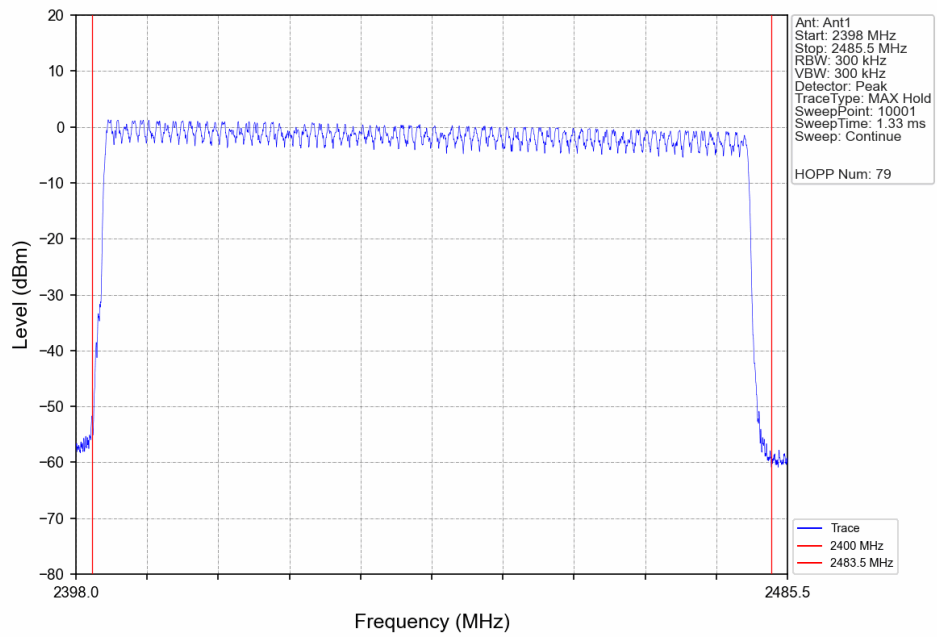
| Mode      | TX Type | Frequency (MHz) | Packet Type | Num of Hopping Frequencies |       | Verdict |
|-----------|---------|-----------------|-------------|----------------------------|-------|---------|
|           |         |                 |             | ANT1                       | Limit |         |
| GFSK      | SISO    | HOPP            | DH5         | 79                         | >=15  | Pass    |
| Pi/4DQPSK | SISO    | HOPP            | 2DH5        | 79                         | >=15  | Pass    |
| 8DPSK     | SISO    | HOPP            | 3DH5        | 79                         | >=15  | Pass    |

## 4.2 Test Graph

### 4.2.1 HoppNum



# 8DPSK 3DH5 HOPP Ant1 NTNV



## 5. Time of Occupancy (Dwell Time)

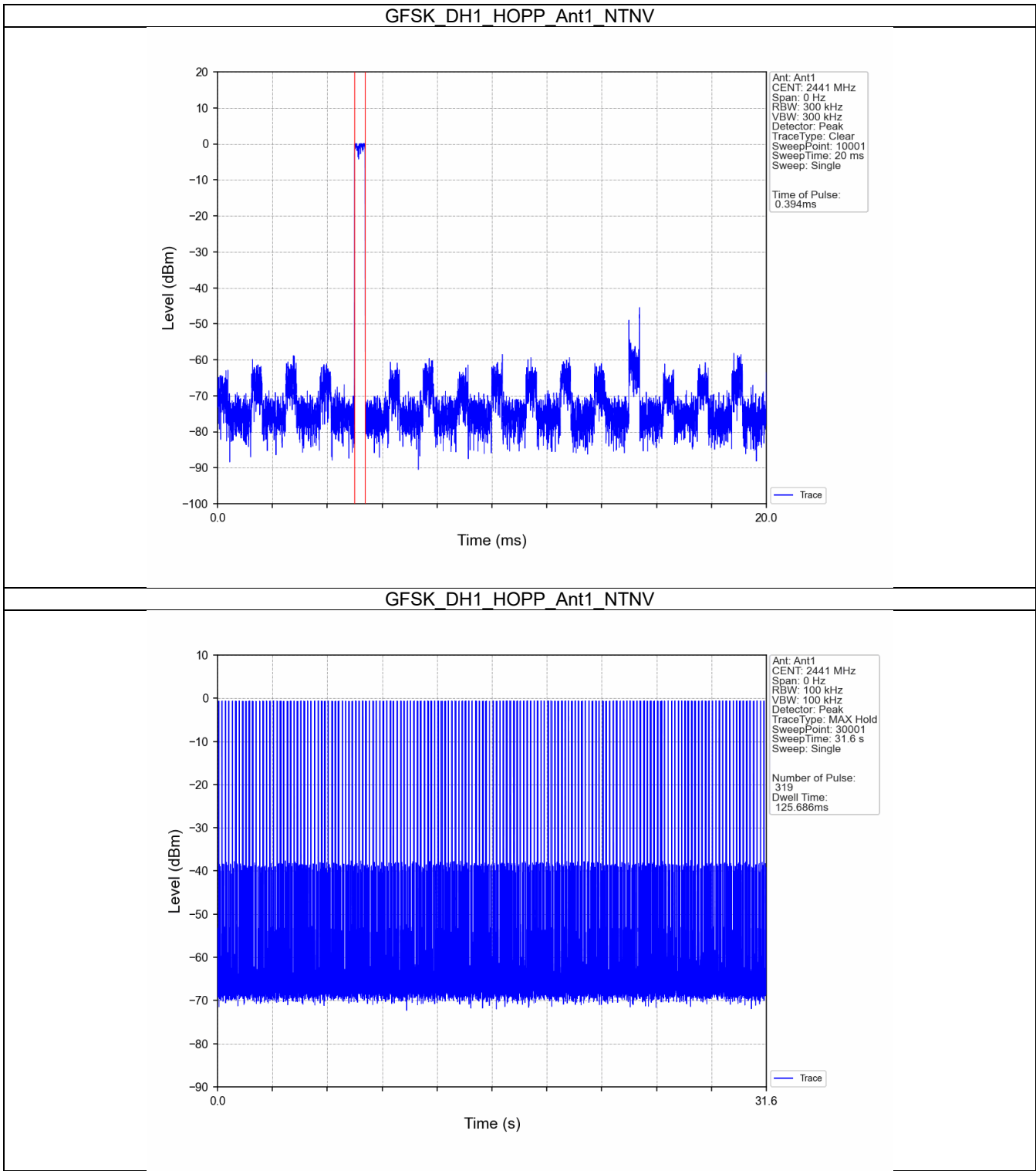
### 5.1 Test Result

#### 5.1.1 Ant1

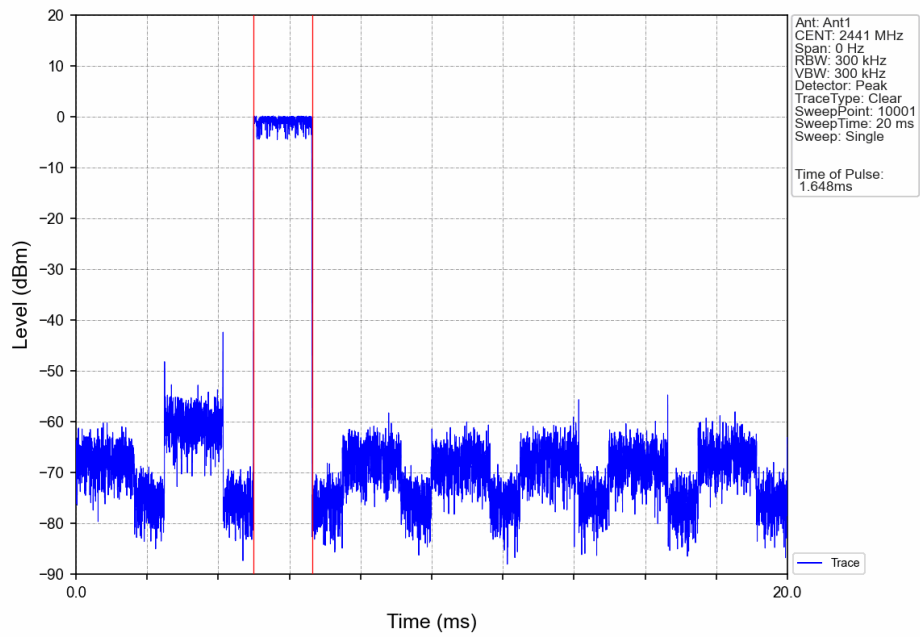
| Ant1      |         |                 |             |                               |                        |                                    |                 |            |         |
|-----------|---------|-----------------|-------------|-------------------------------|------------------------|------------------------------------|-----------------|------------|---------|
| Mode      | TX Type | Frequency (MHz) | Packet Type | Duration of Single Pulse (ms) | Observation Period (s) | Num of Pulse in Observation Period | Dwell Time (ms) | Limit (ms) | Verdict |
| GFSK      | SISO    | HOPP            | DH1         | 0.394                         | 31.600                 | 319                                | 125.686         | <=400      | Pass    |
|           |         |                 | DH3         | 1.648                         | 31.600                 | 154                                | 253.792         | <=400      | Pass    |
|           |         |                 | DH5         | 2.900                         | 31.600                 | 107                                | 310.300         | <=400      | Pass    |
| Pi/4DQPSK | SISO    | HOPP            | 2DH1        | 0.396                         | 31.600                 | 317                                | 125.532         | <=400      | Pass    |
|           |         |                 | 2DH3        | 1.648                         | 31.600                 | 156                                | 257.088         | <=400      | Pass    |
|           |         |                 | 2DH5        | 2.902                         | 31.600                 | 103                                | 298.906         | <=400      | Pass    |
| 8DPSK     | SISO    | HOPP            | 3DH1        | 0.402                         | 31.600                 | 320                                | 128.640         | <=400      | Pass    |
|           |         |                 | 3DH3        | 1.646                         | 31.600                 | 153                                | 251.838         | <=400      | Pass    |
|           |         |                 | 3DH5        | 2.904                         | 31.600                 | 115                                | 333.960         | <=400      | Pass    |

5.2 Test Graph

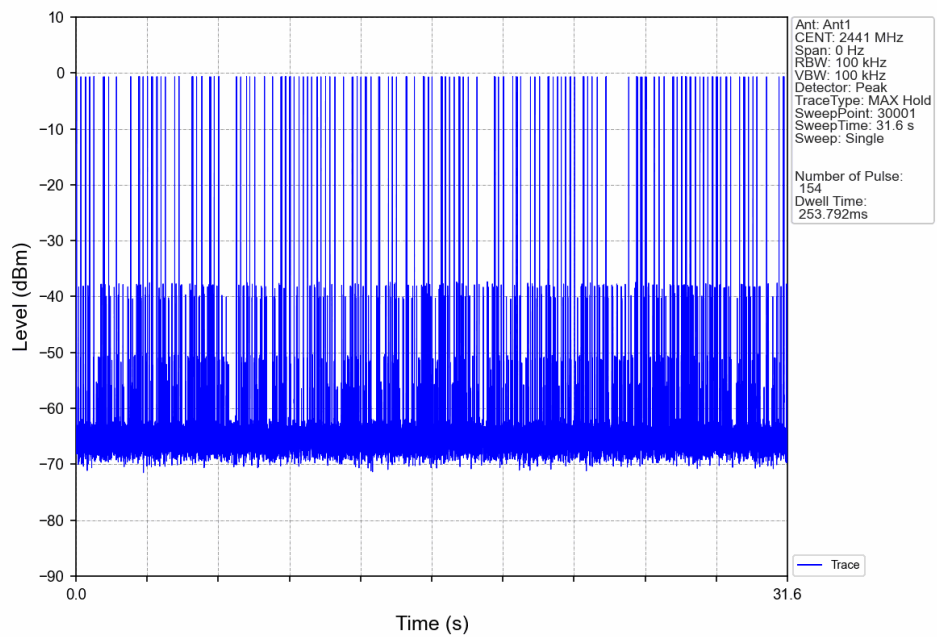
5.2.1 Ant1



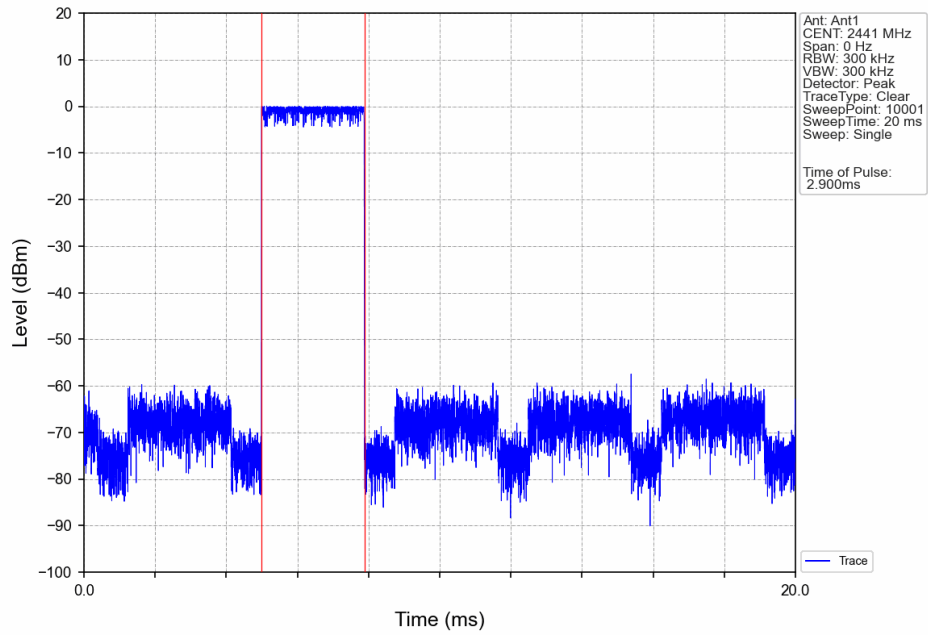
# GFSK DH3 HOPP Ant1 NTN



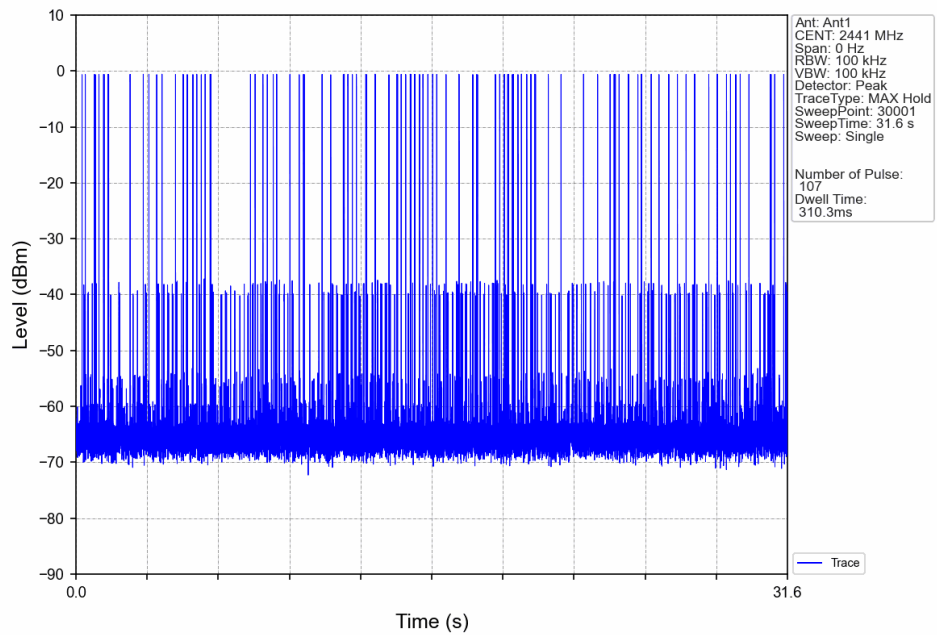
# GFSK DH3 HOPP Ant1 NTN



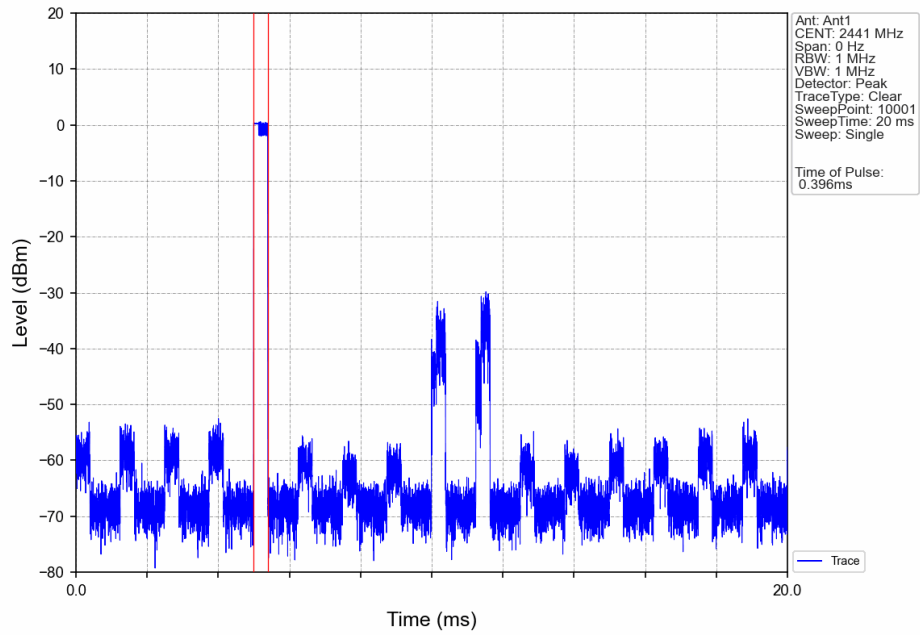
# GFSK DH5 HOPP Ant1 NTN



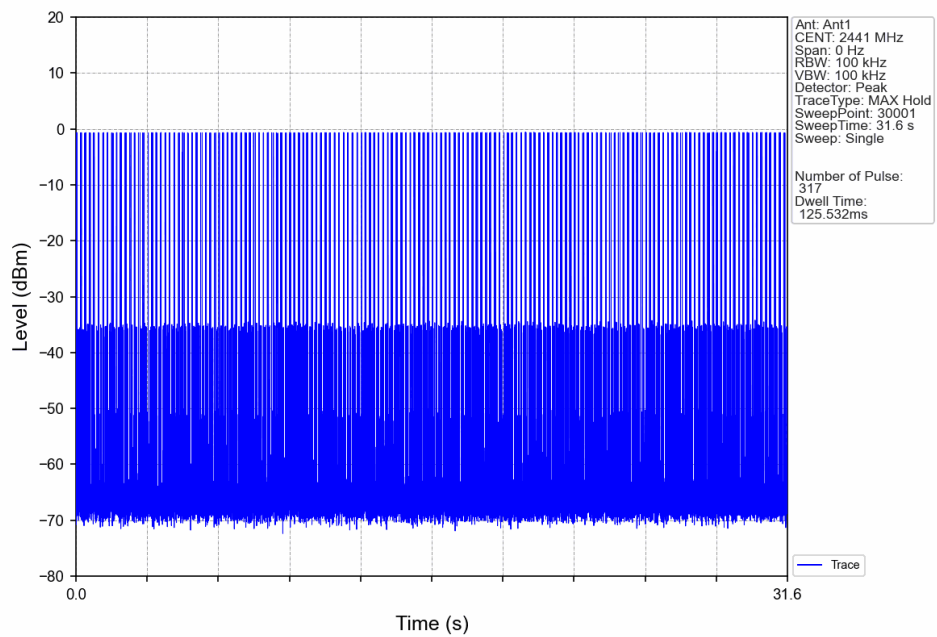
# GFSK DH5 HOPP Ant1 NTN



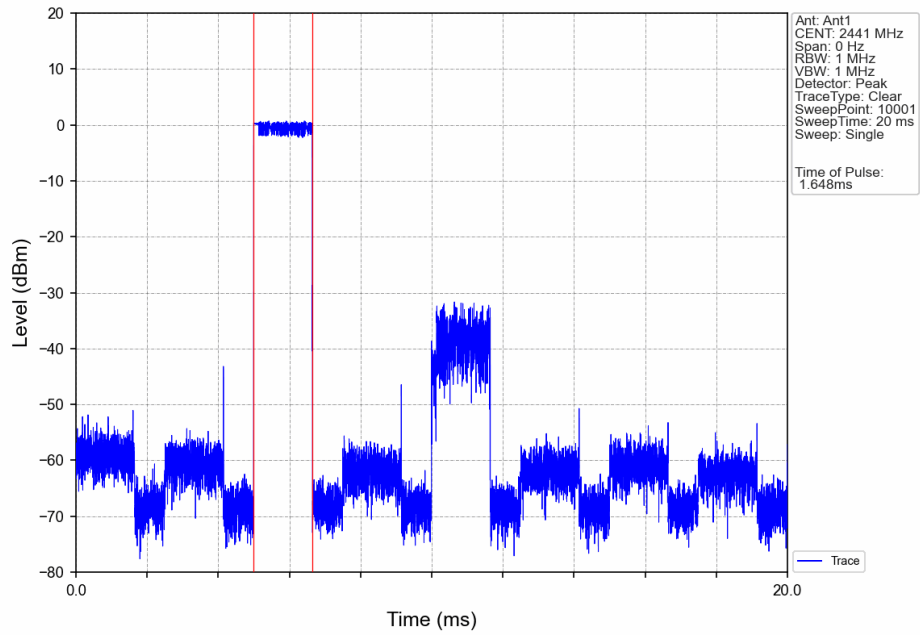
# Pi/4DQPSK 2DH1 HOPP Ant1 NTN



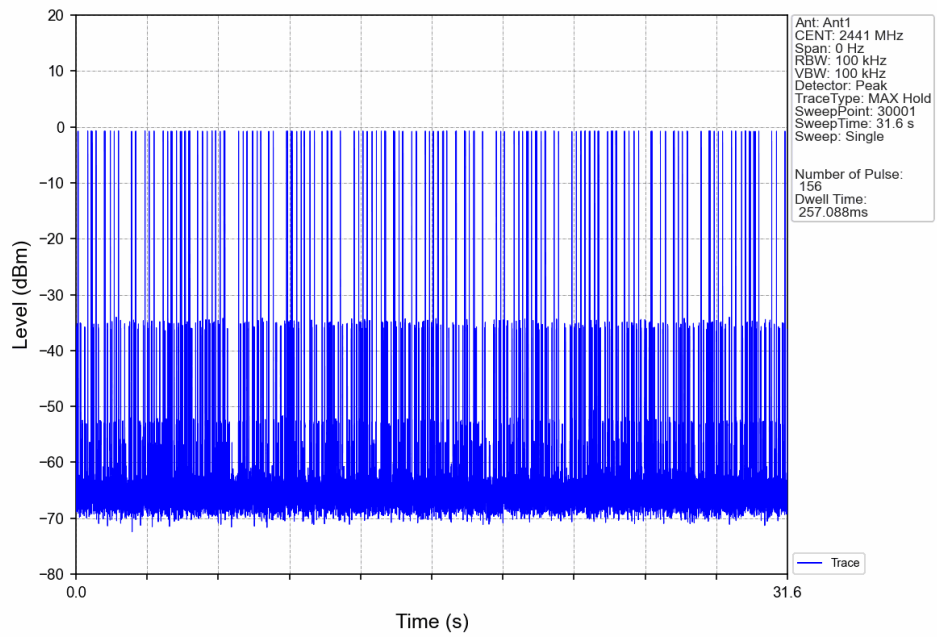
# Pi/4DQPSK 2DH1 HOPP Ant1 NTN



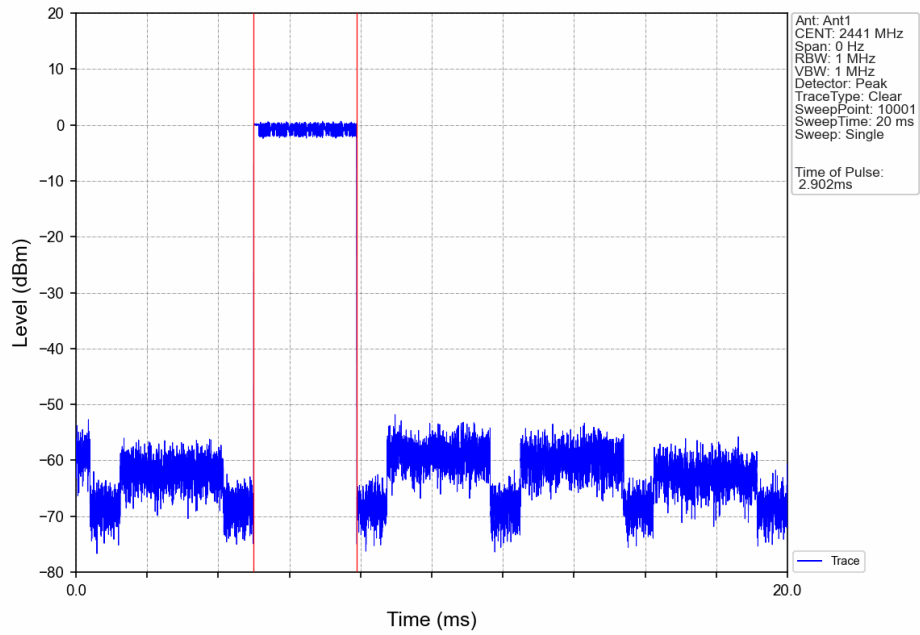
Pi/4DQPSK 2DH3 HOPP Ant1 NTN



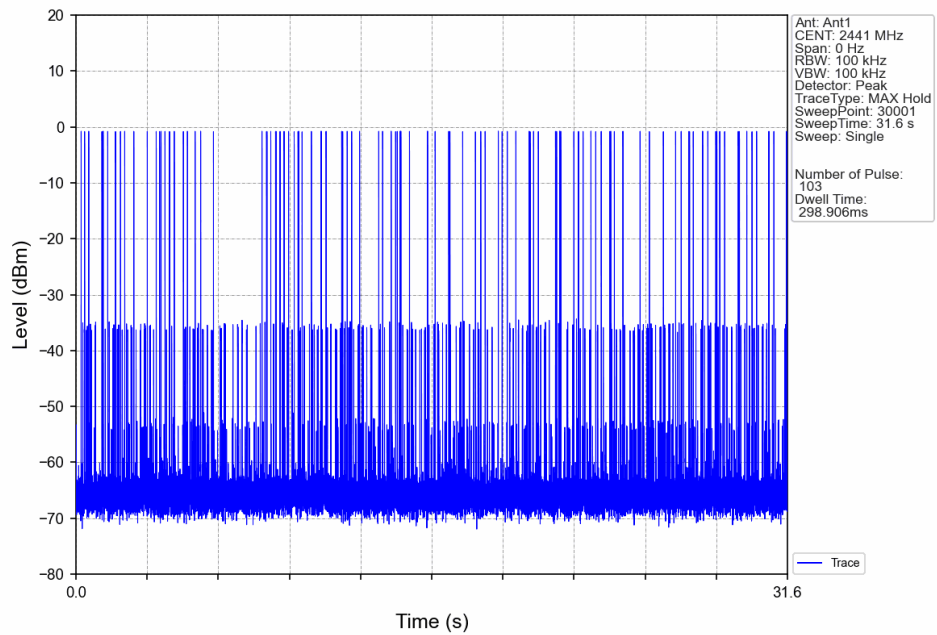
Pi/4DQPSK 2DH3 HOPP Ant1 NTN



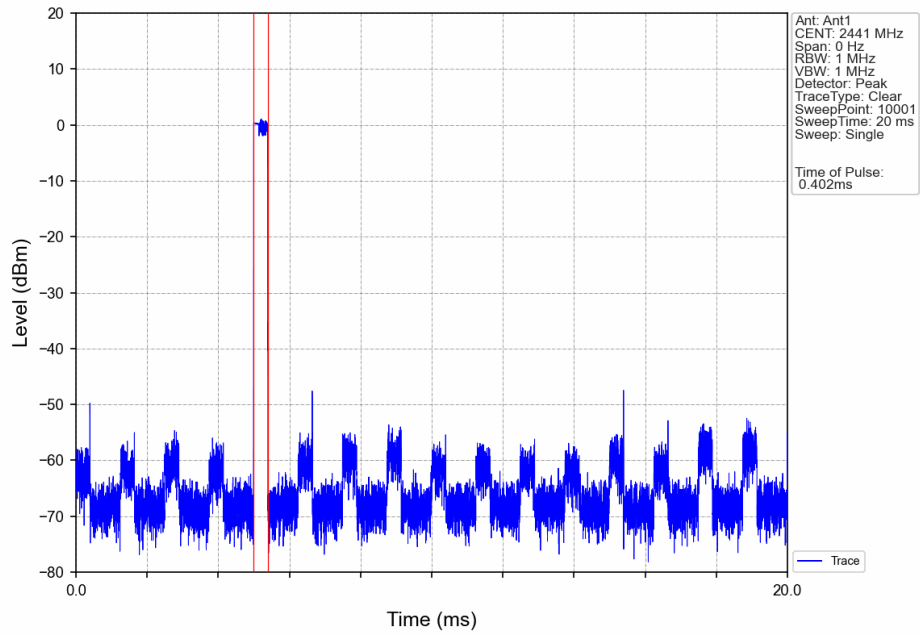
# Pi/4DQPSK 2DH5 HOPP Ant1 NTN



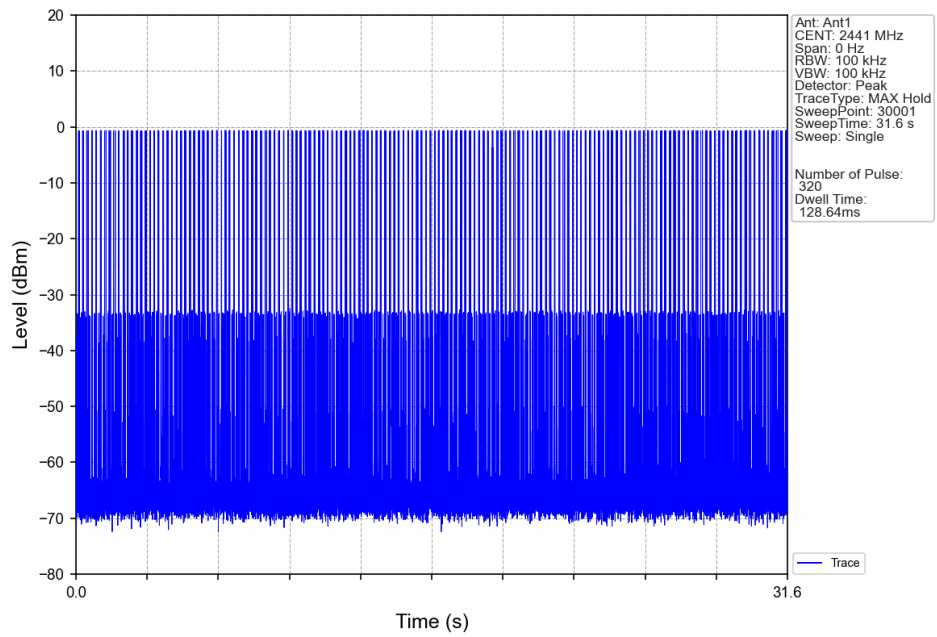
# Pi/4DQPSK 2DH5 HOPP Ant1 NTN



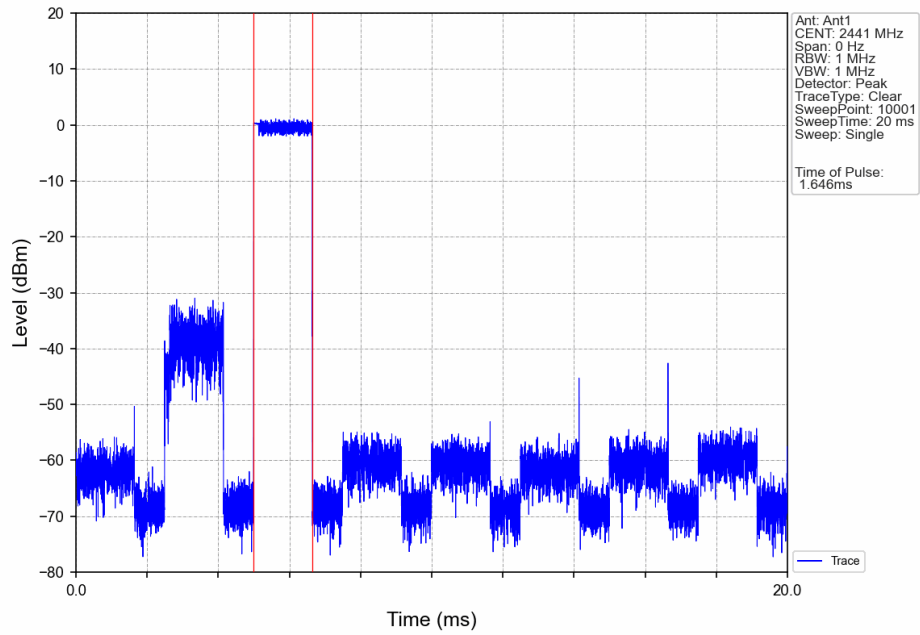
# 8DPSK 3DH1 HOPP Ant1 NTN



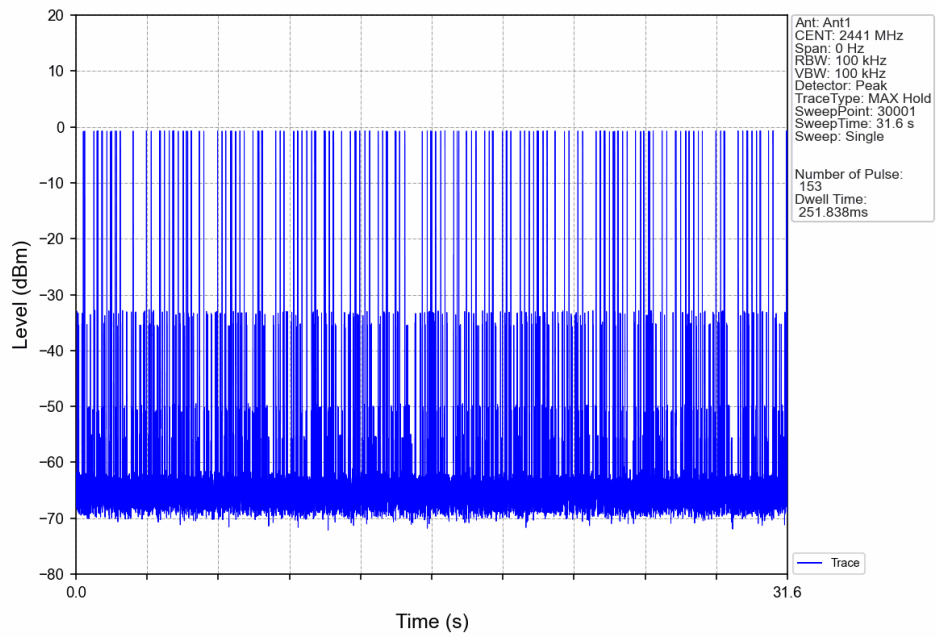
# 8DPSK 3DH1 HOPP Ant1 NTN



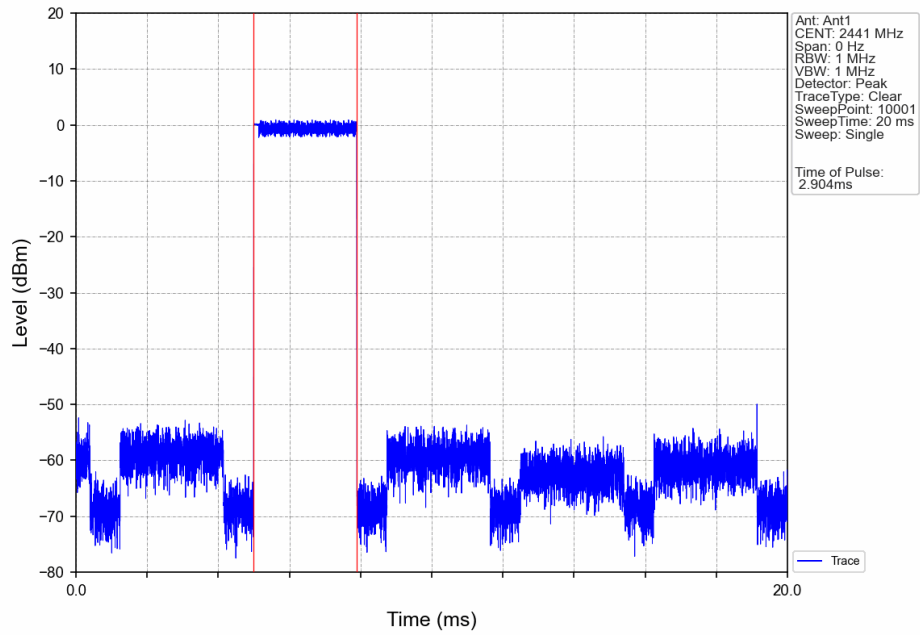
# 8DPSK 3DH3 HOPP Ant1 NTNV



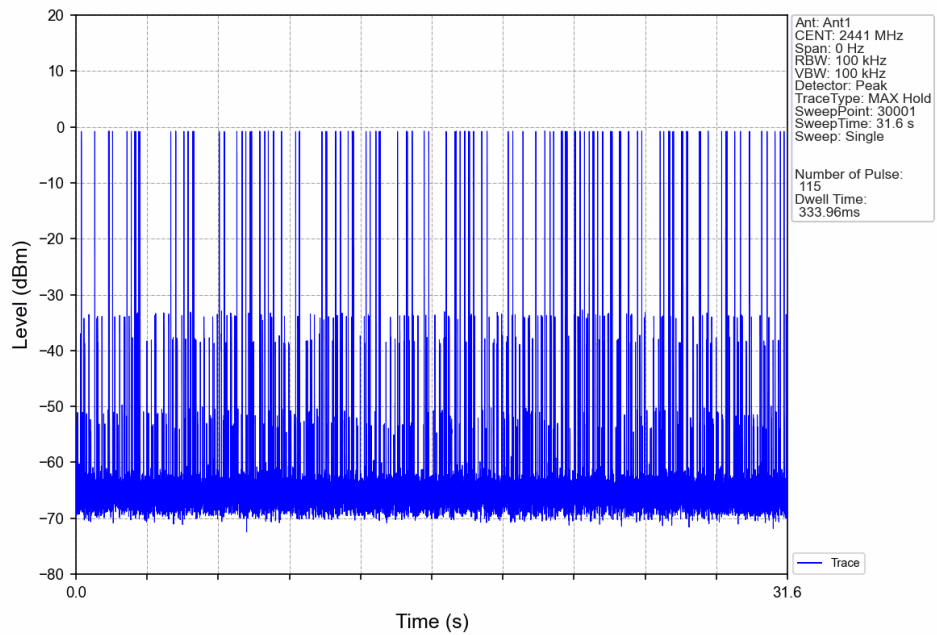
# 8DPSK 3DH3 HOPP Ant1 NTNV



# 8DPSK 3DH5 HOPP Ant1 NTNV



# 8DPSK 3DH5 HOPP Ant1 NTNV



## 6. Unwanted Emissions In Non-restricted Frequency Bands

### 6.1 Test Result

#### 6.1.1 Ref

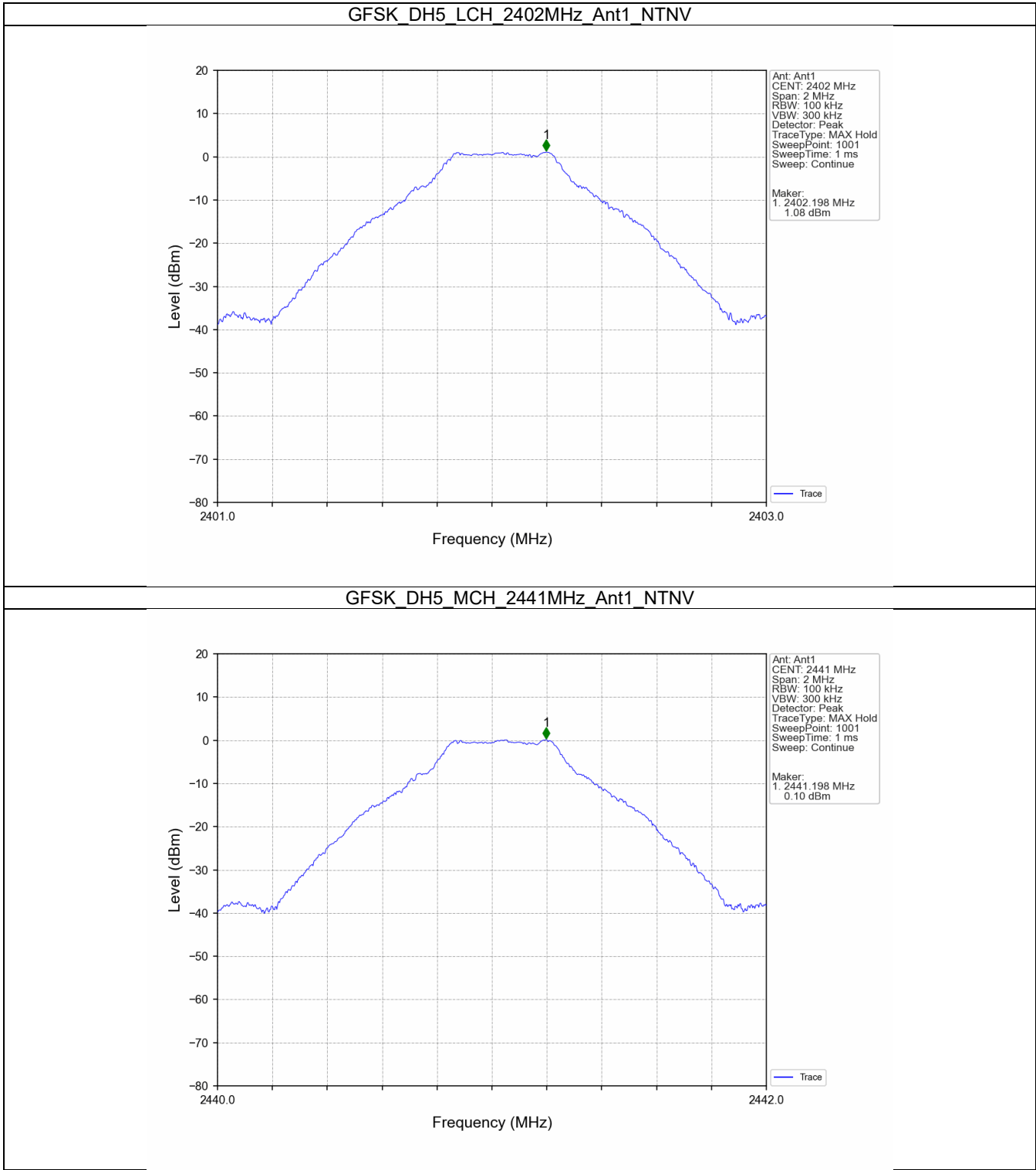
| Mode      | TX Type | Frequency (MHz) | Packet Type | ANT | Level of Reference (dBm) |
|-----------|---------|-----------------|-------------|-----|--------------------------|
| GFSK      | SISO    | 2402            | DH5         | 1   | 1.08                     |
|           |         | 2441            | DH5         | 1   | 0.10                     |
|           |         | 2480            | DH5         | 1   | -1.11                    |
|           |         | HOPP            | DH5         | 1   | 0.72                     |
|           |         |                 |             |     | 0.72                     |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 1   | 1.07                     |
|           |         | 2441            | 2DH5        | 1   | 0.11                     |
|           |         | 2480            | 2DH5        | 1   | -1.12                    |
|           |         | HOPP            | 2DH5        | 1   | 0.92                     |
|           |         |                 |             |     | 0.92                     |
| 8DPSK     | SISO    | 2402            | 3DH5        | 1   | 1.06                     |
|           |         | 2441            | 3DH5        | 1   | 0.11                     |
|           |         | 2480            | 3DH5        | 1   | -1.15                    |
|           |         | HOPP            | 3DH5        | 1   | 0.87                     |
|           |         |                 |             |     | 0.87                     |

#### 6.1.2 CSE

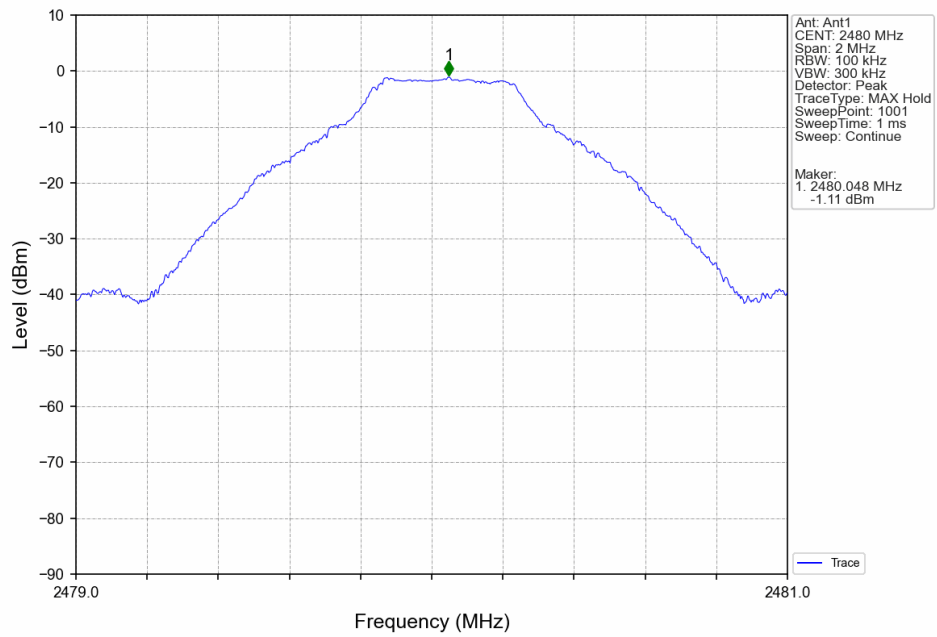
| Mode      | TX Type | Frequency (MHz) | Packet Type | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|-----------|---------|-----------------|-------------|-----|--------------------------|-------------|---------|
| GFSK      | SISO    | 2402            | DH5         | 1   | 1.08                     | -18.92      | Pass    |
|           |         | 2441            | DH5         | 1   | 0.10                     | -19.90      | Pass    |
|           |         | 2480            | DH5         | 1   | -1.11                    | -21.11      | Pass    |
|           |         | HOPP            | DH5         | 1   | 0.72                     | -19.28      | Pass    |
|           |         |                 |             |     | 0.72                     | -19.28      | Pass    |
| Pi/4DQPSK | SISO    | 2402            | 2DH5        | 1   | 1.07                     | -18.93      | Pass    |
|           |         | 2441            | 2DH5        | 1   | 0.11                     | -19.89      | Pass    |
|           |         | 2480            | 2DH5        | 1   | -1.12                    | -21.12      | Pass    |
|           |         | HOPP            | 2DH5        | 1   | 0.92                     | -19.08      | Pass    |
|           |         |                 |             |     | 0.92                     | -19.08      | Pass    |
| 8DPSK     | SISO    | 2402            | 3DH5        | 1   | 1.06                     | -18.94      | Pass    |
|           |         | 2441            | 3DH5        | 1   | 0.11                     | -19.89      | Pass    |
|           |         | 2480            | 3DH5        | 1   | -1.15                    | -21.15      | Pass    |
|           |         | HOPP            | 3DH5        | 1   | 0.87                     | -19.13      | Pass    |
|           |         |                 |             |     | 0.87                     | -19.13      | Pass    |

6.2 Test Graph

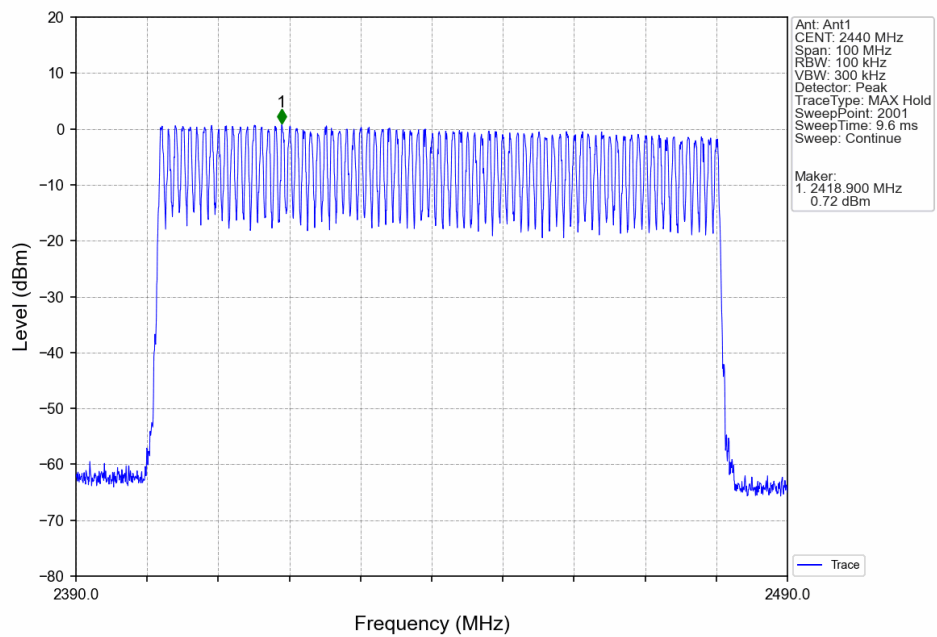
6.2.1 Ref



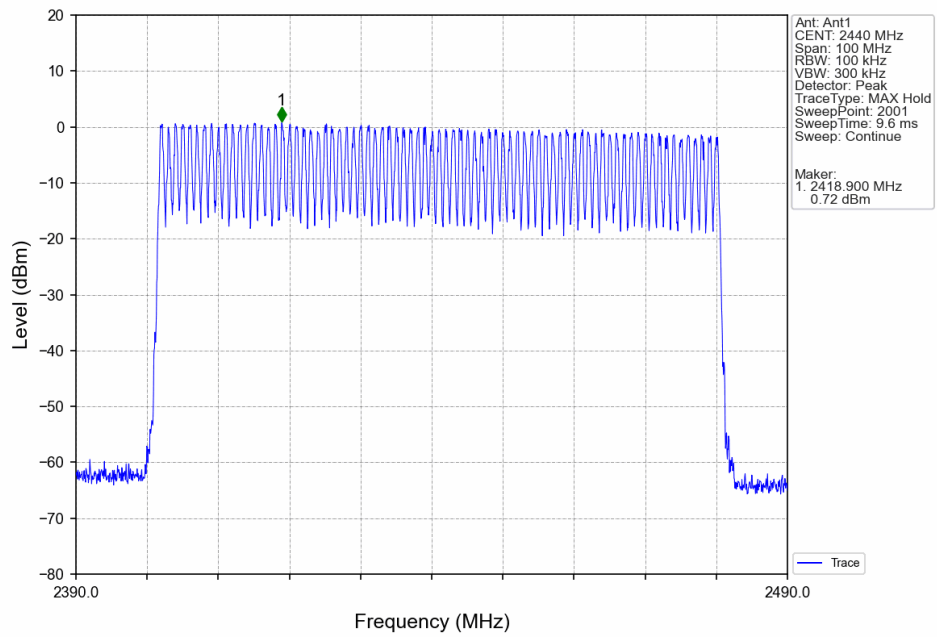
# GFSK DH5 HCH 2480MHz Ant1 NTV



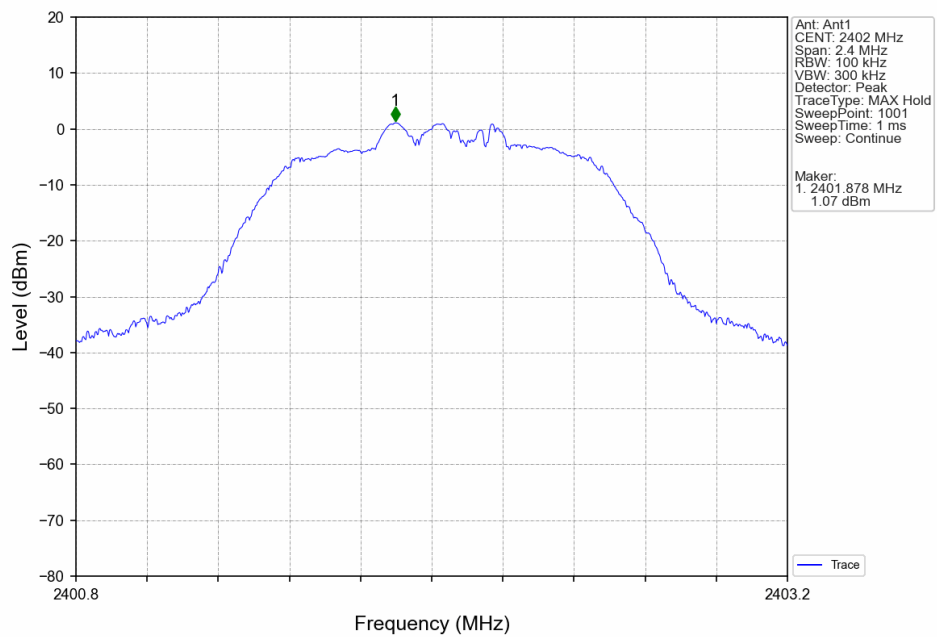
# GFSK DH5 HOPP Ant1 NTV



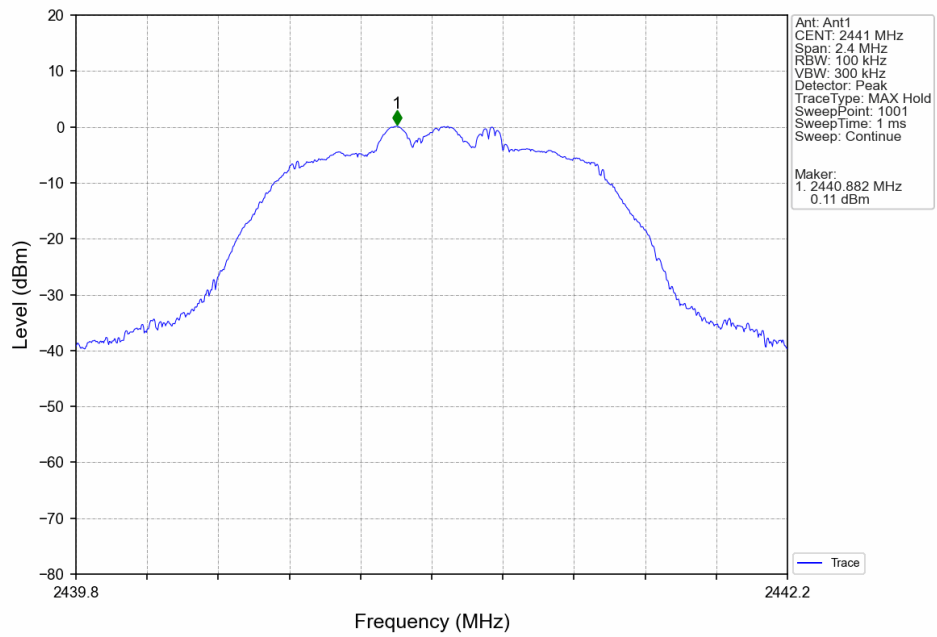
# GFSK DH5 HOPP Ant1 NTNV



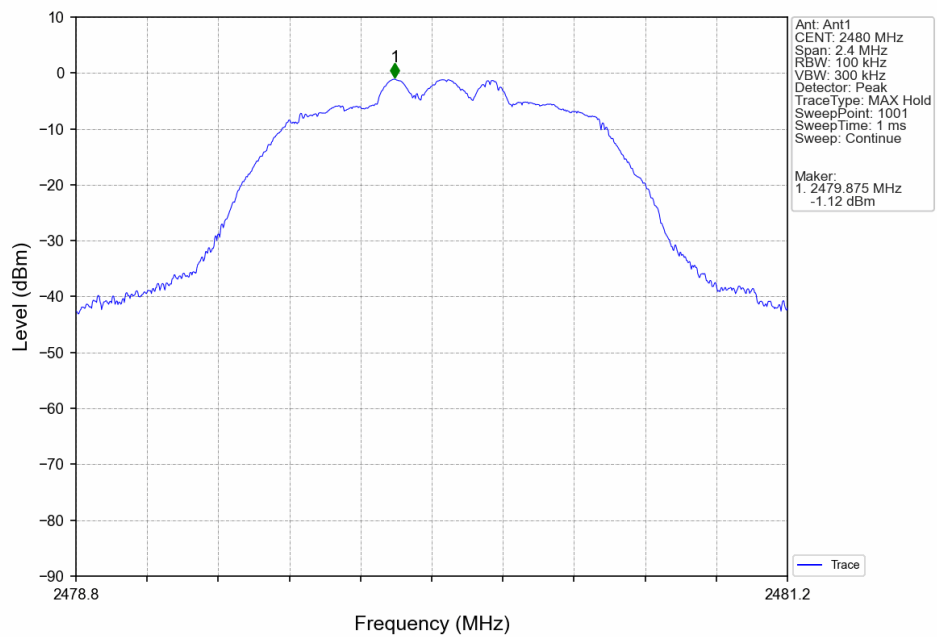
# Pi/4DQPSK 2DH5 LCH 2402MHz Ant1 NTNV



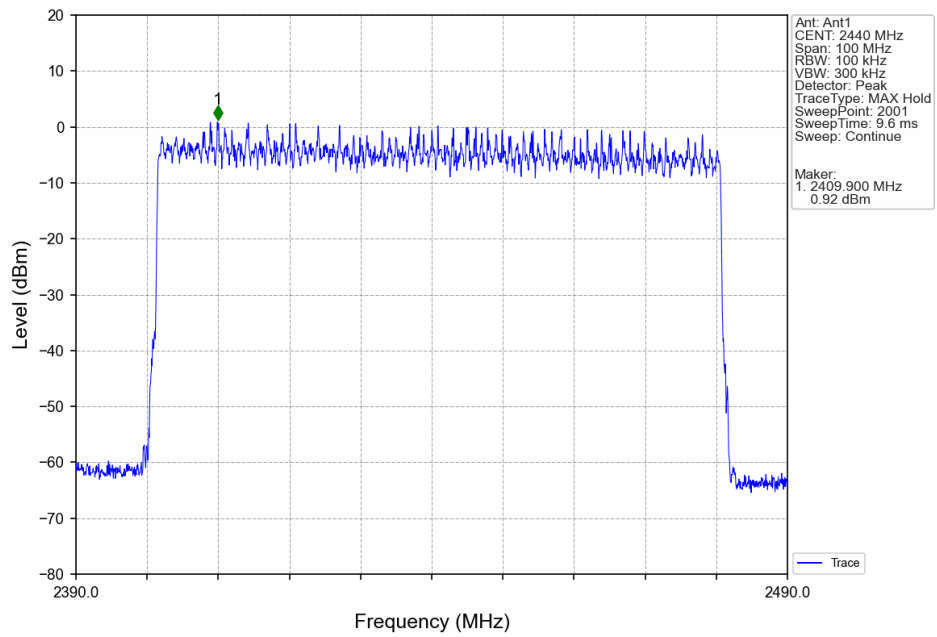
Pi/4DQPSK 2DH5 MCH 2441MHz Ant1 NTNV



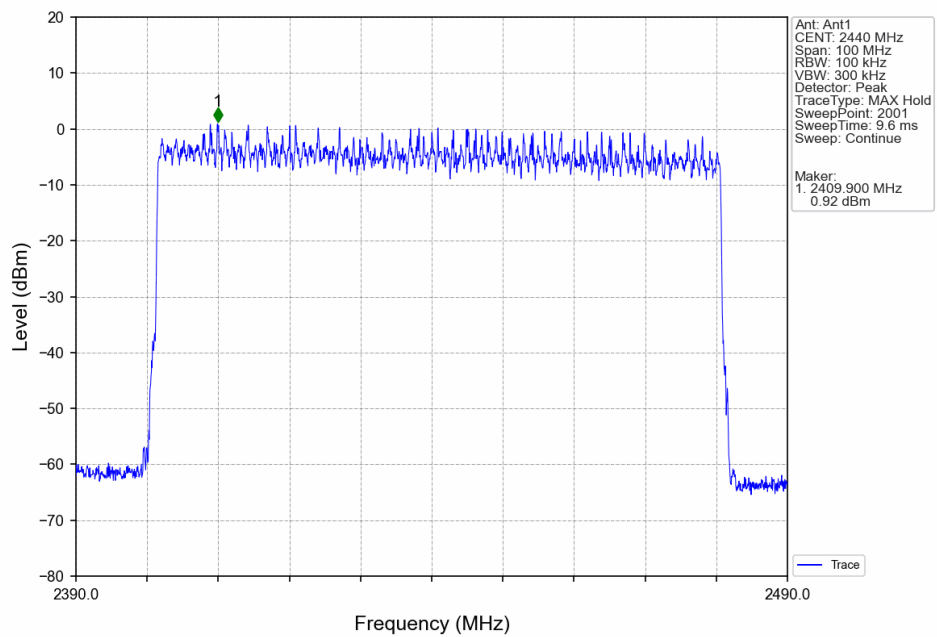
Pi/4DQPSK 2DH5 HCH 2480MHz Ant1 NTNV



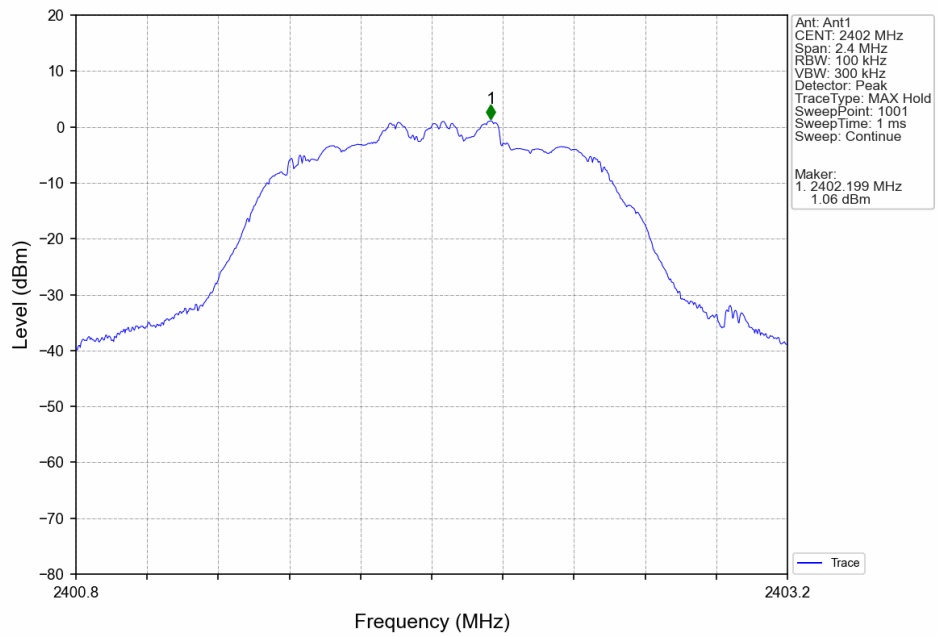
Pi/4DQPSK 2DH5 HOPP Ant1 NTN



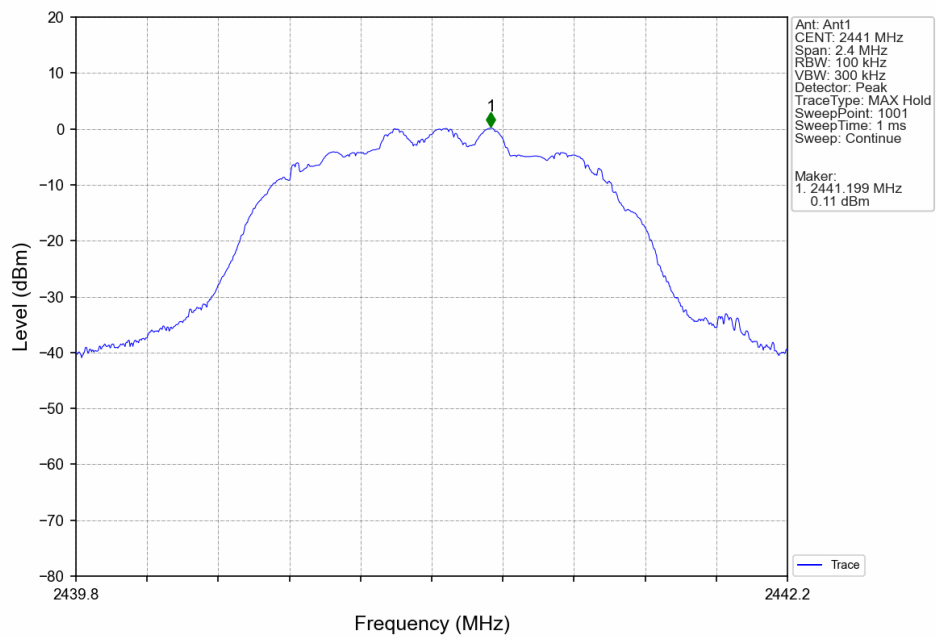
Pi/4DQPSK 2DH5 HOPP Ant1 NTN



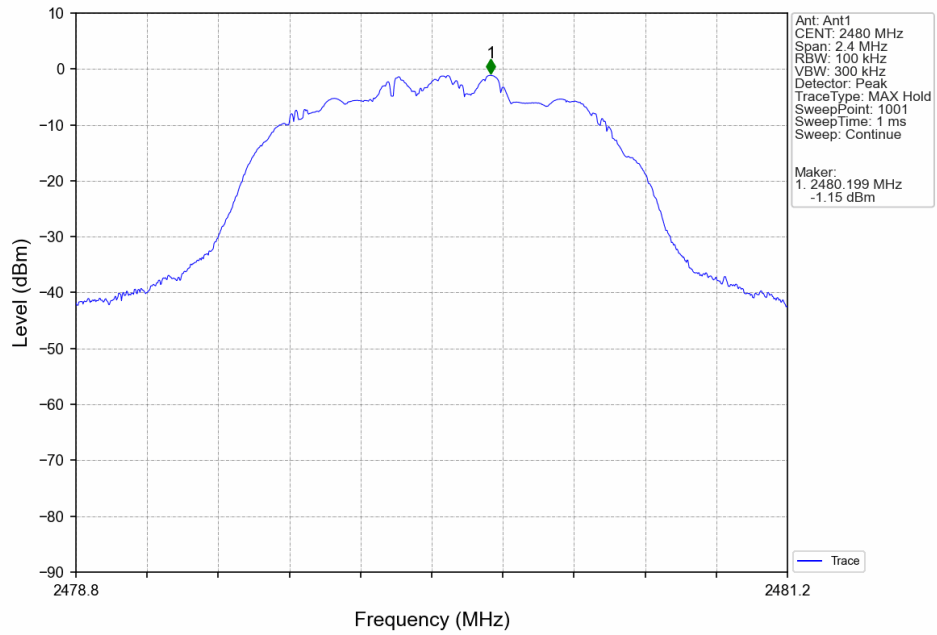
8DPSK 3DH5 LCH 2402MHz Ant1 NTNV



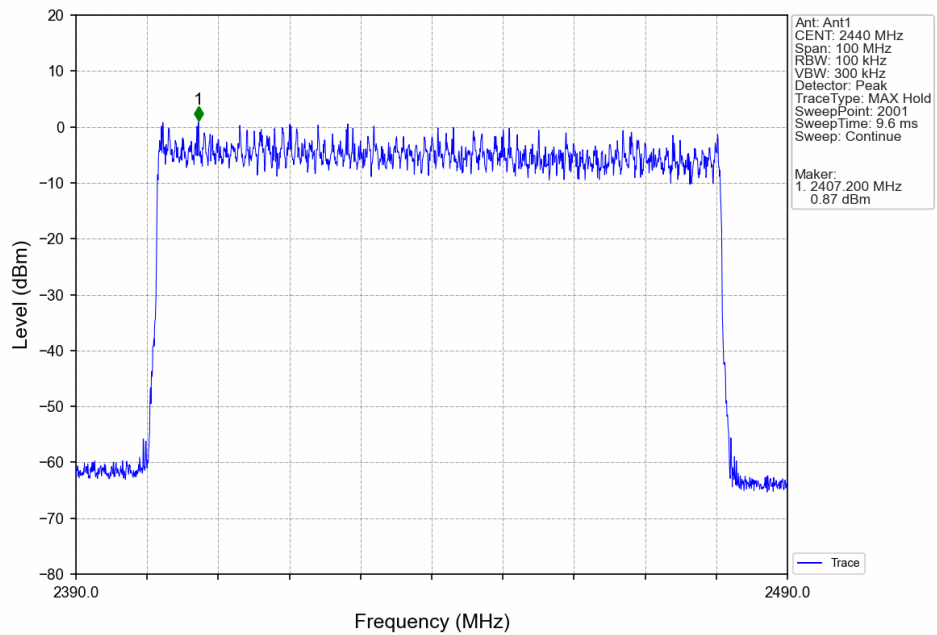
8DPSK 3DH5 MCH 2441MHz Ant1 NTNV



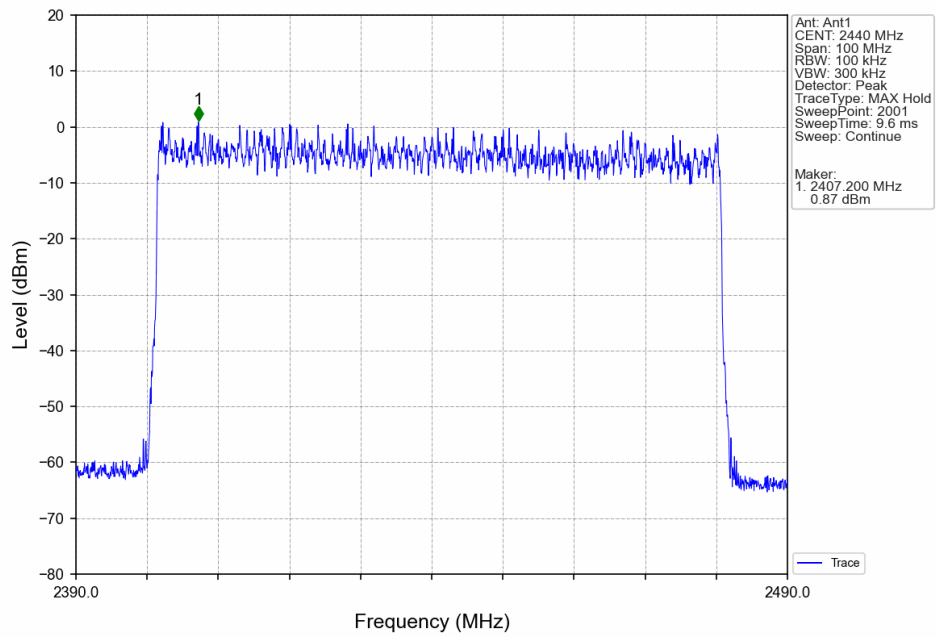
# 8DPSK 3DH5 HCH 2480MHz Ant1 NTN



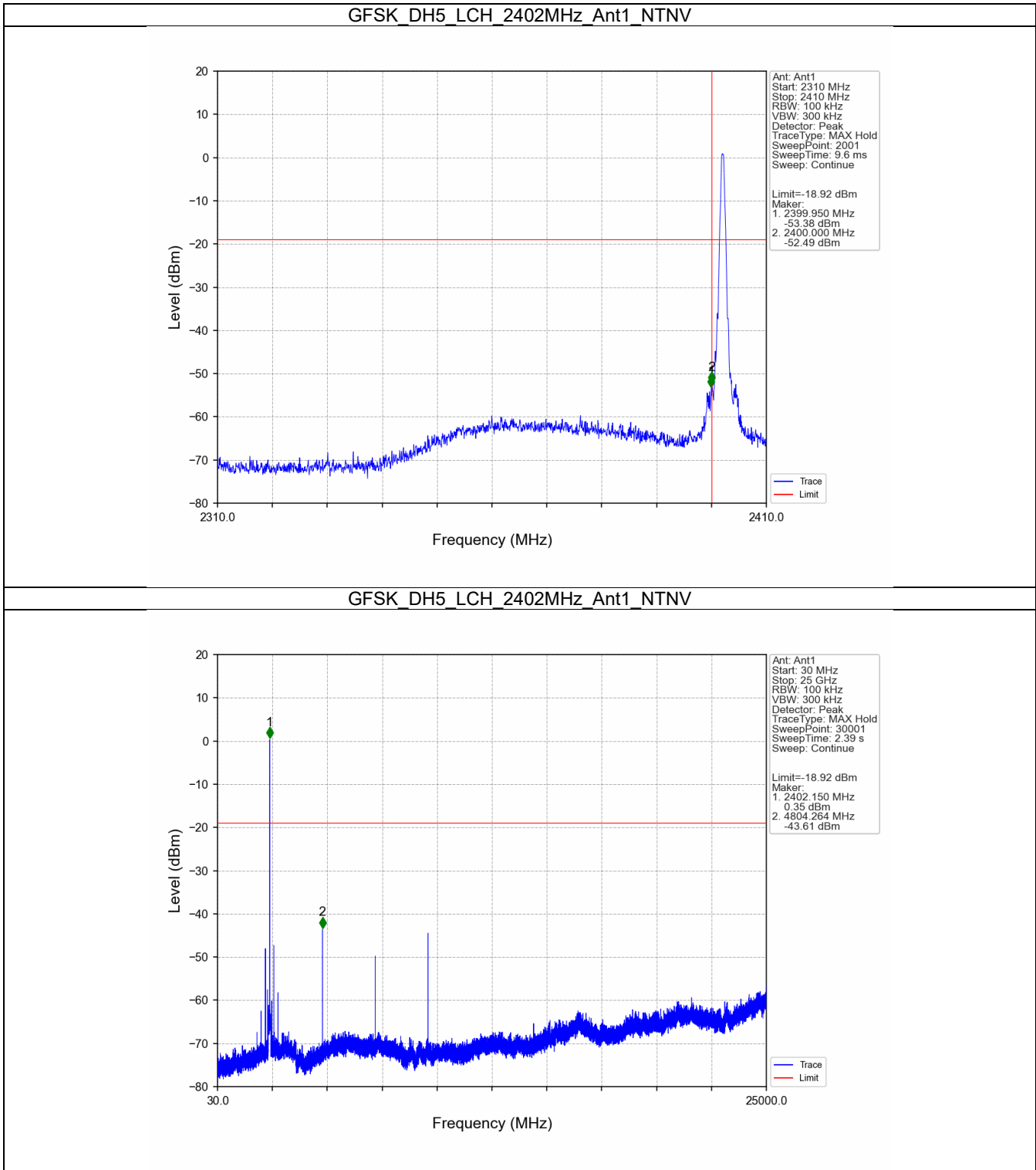
# 8DPSK 3DH5 HOPP Ant1 NTN



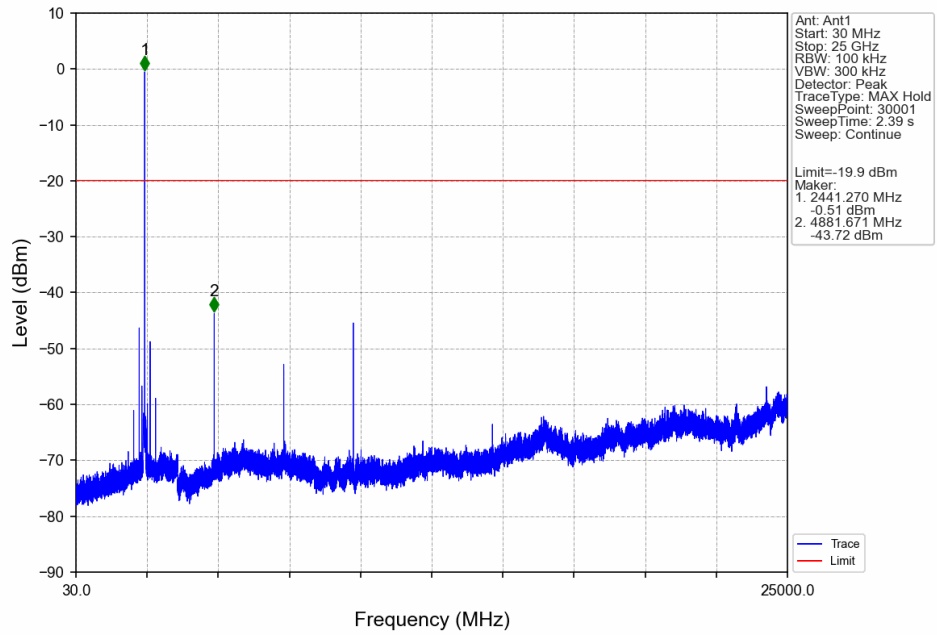
# 8DPSK 3DH5 HOPP Ant1 NTN



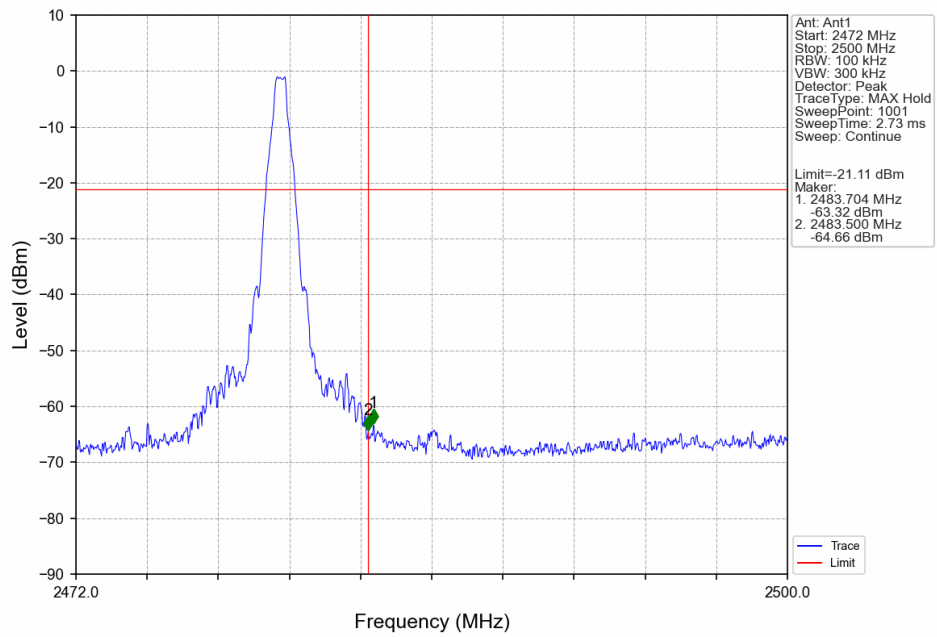
6.2.2 CSE



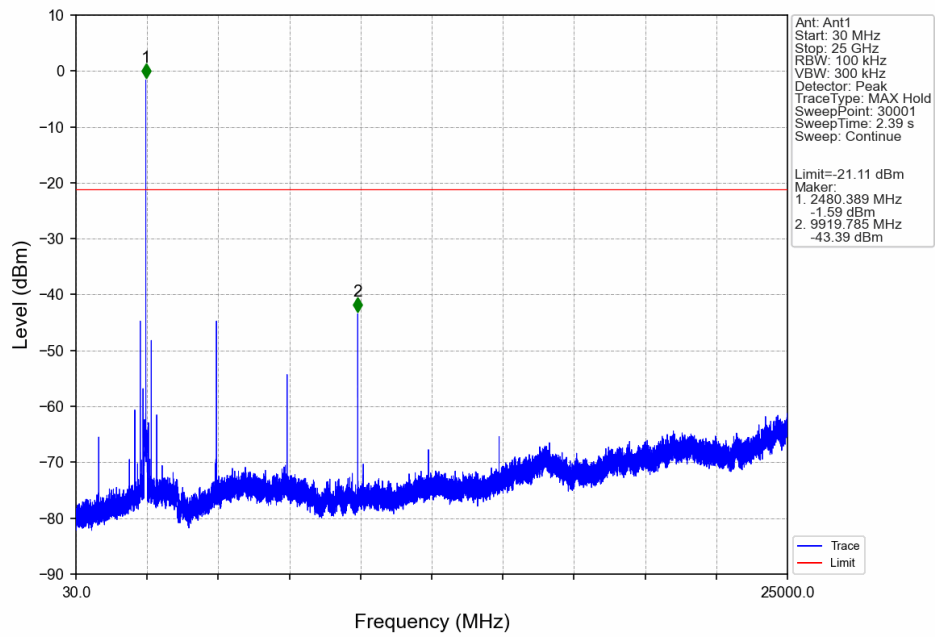
# GFSK DH5 MCH 2441MHz Ant1 NTNV



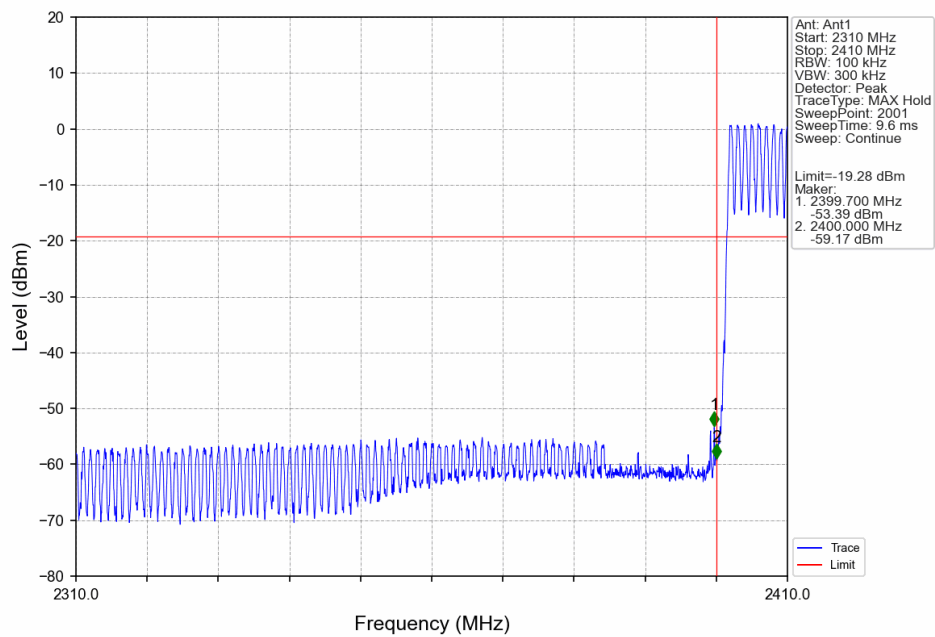
# GFSK DH5 HCH 2480MHz Ant1 NTNV



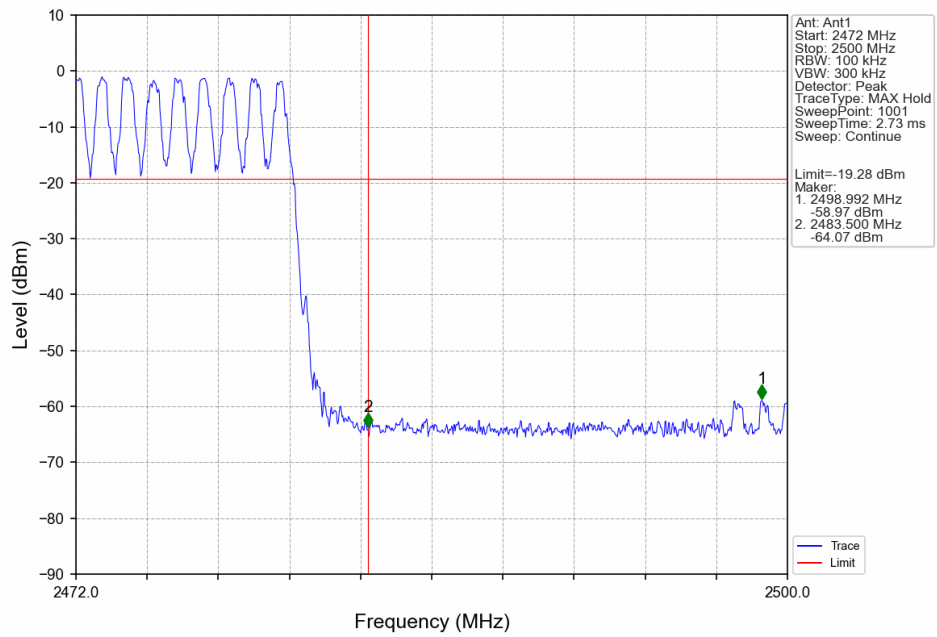
# GFSK DH5 HCH 2480MHz Ant1 NTV



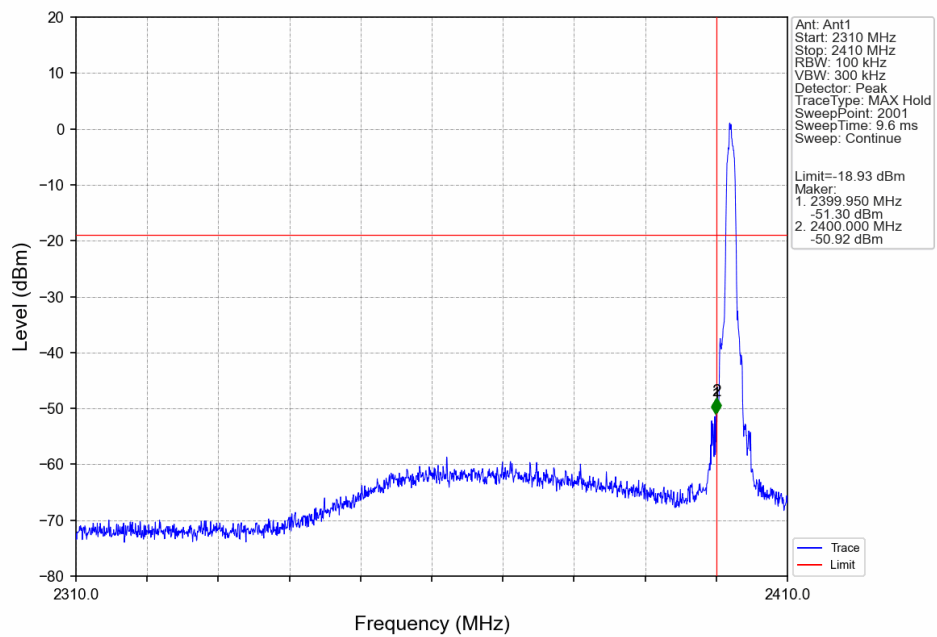
# GFSK DH5 HOPP Ant1 NTV



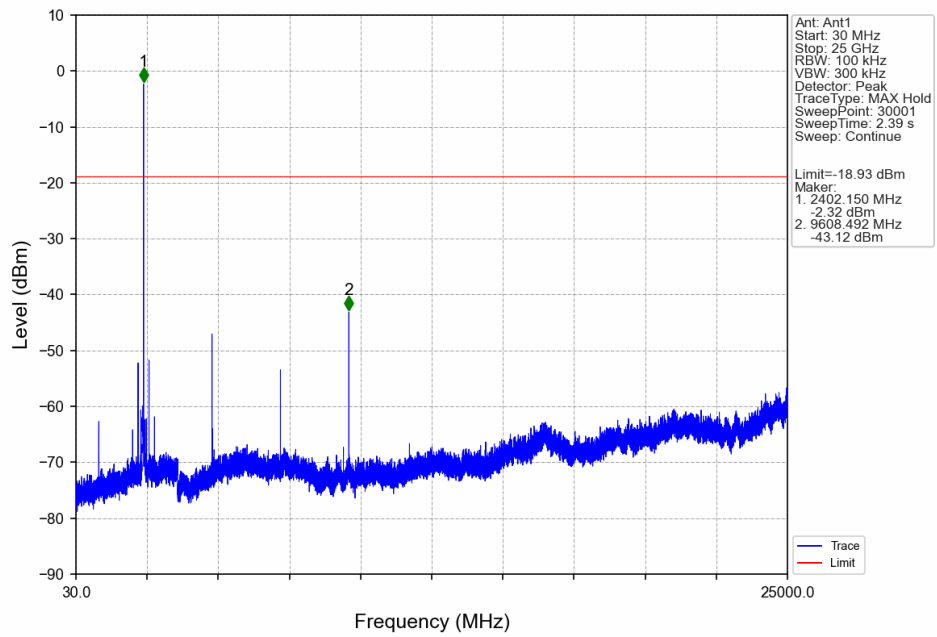
# GFSK DH5 HOPP Ant1 NTN



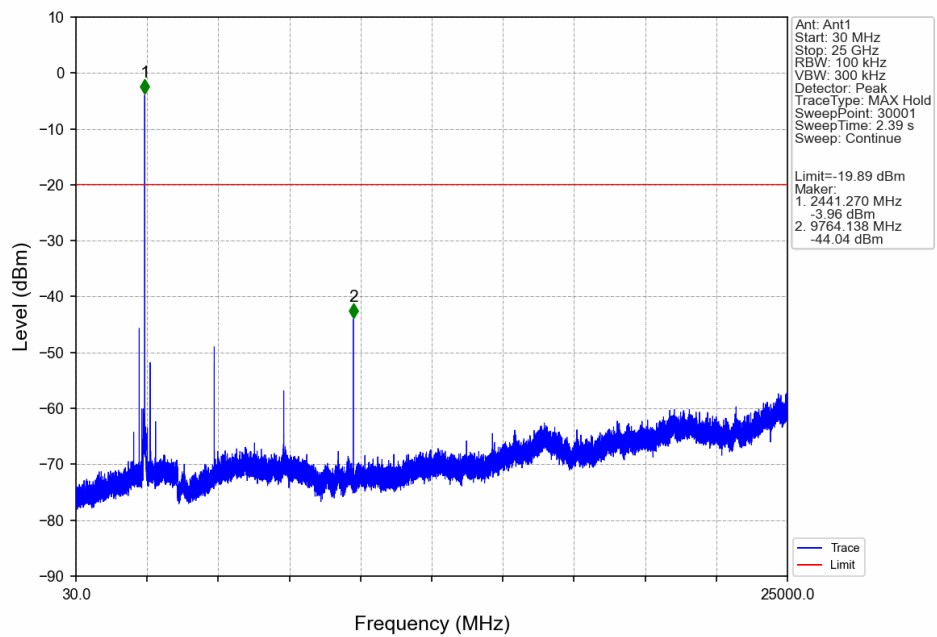
# Pi/4DQPSK 2DH5 LCH 2402MHz Ant1 NTN



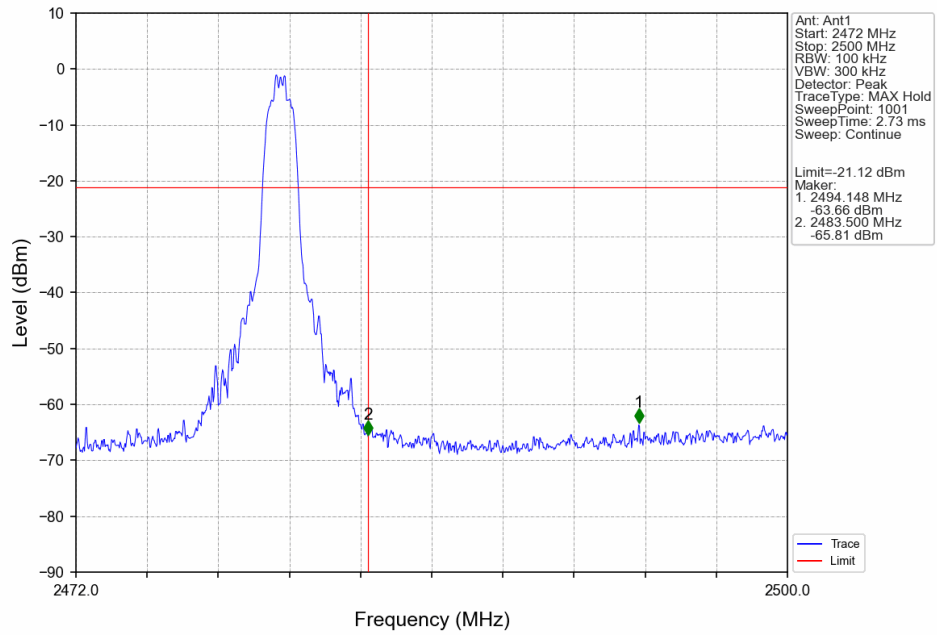
Pi/4DQPSK 2DH5 LCH 2402MHz Ant1 NTN



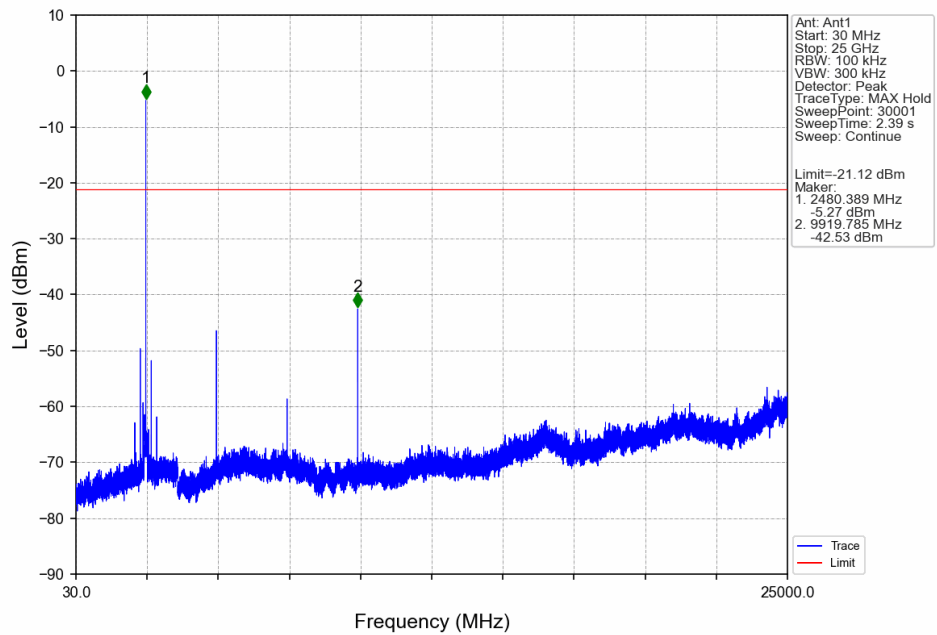
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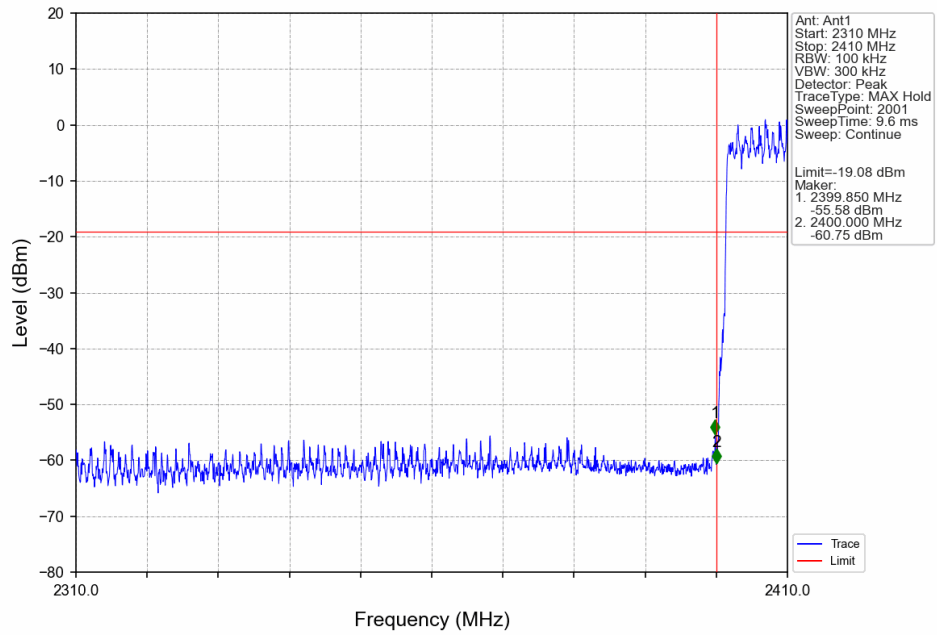
Pi/4DQPSK 2DH5 HCH 2480MHz Ant1 NTN



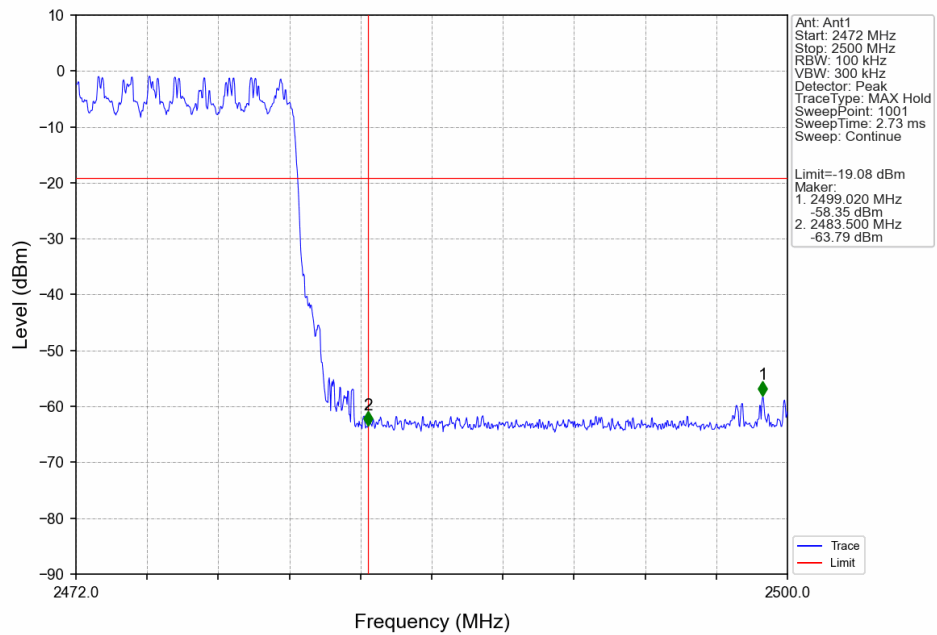
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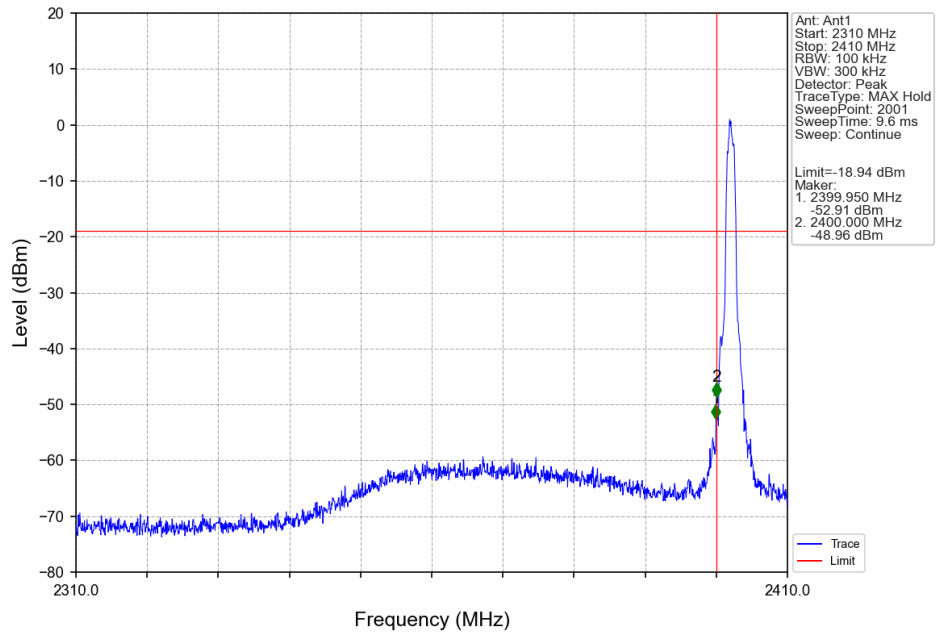
# Pi/4DQPSK 2DH5 HOPP Ant1 NTN



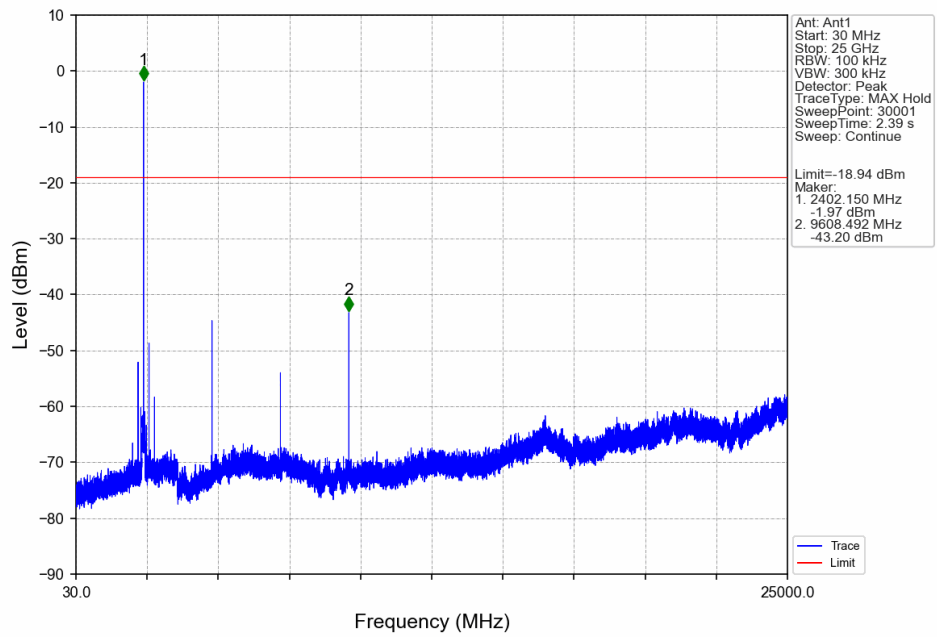
# Pi/4DQPSK 2DH5 HOPP Ant1 NTN



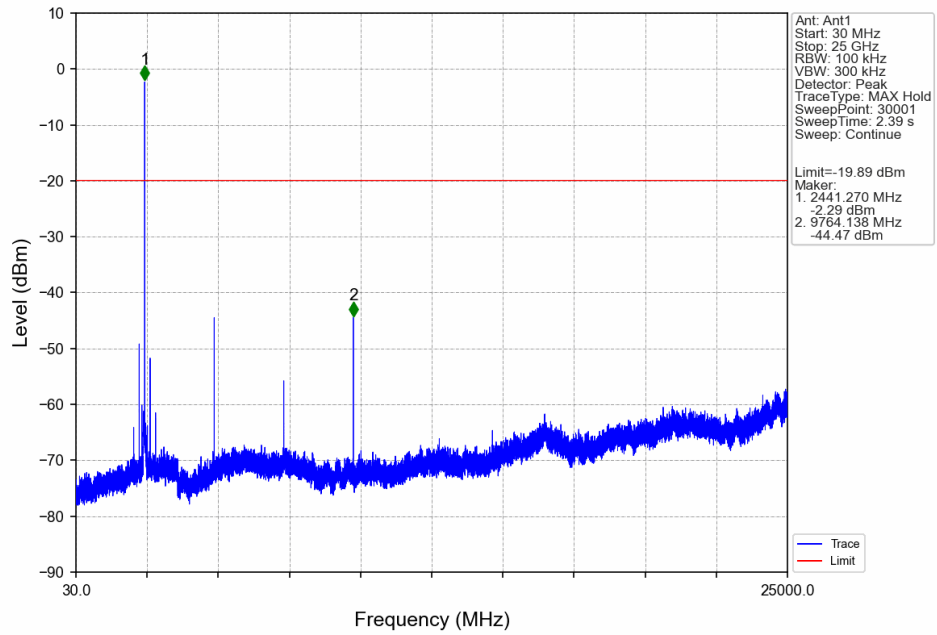
8DPSK 3DH5 LCH 2402MHz Ant1 NTN



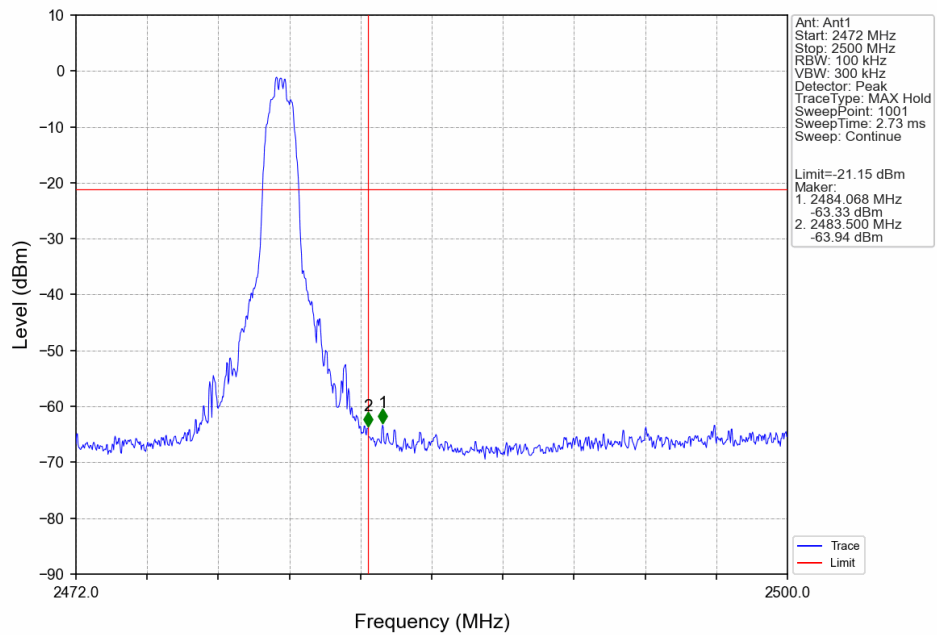
8DPSK 3DH5 LCH 2402MHz Ant1 NTN



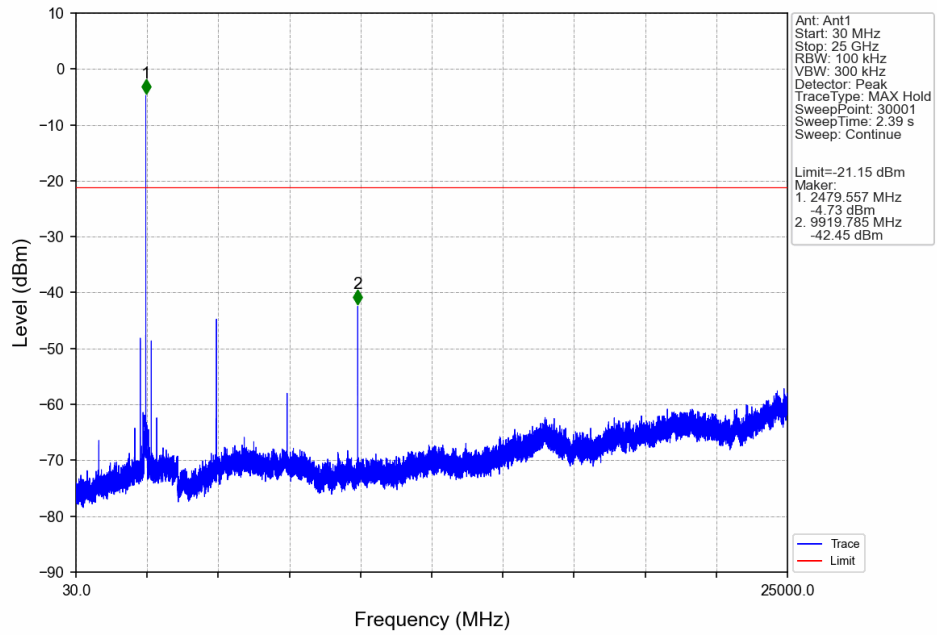
# 8DPSK 3DH5 MCH 2441MHz Ant1 NTN



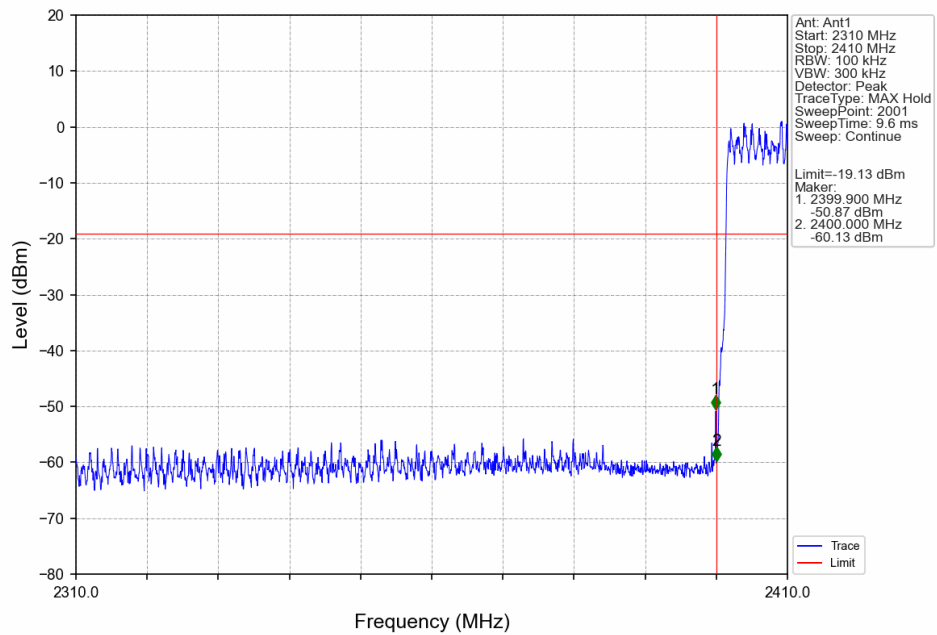
# 8DPSK 3DH5 HCH 2480MHz Ant1 NTN



# 8DPSK 3DH5 HCH 2480MHz Ant1 NTNV



# 8DPSK 3DH5 HOPP Ant1 NTNV



# 8DPSK 3DH5 HOPP Ant1 NTNV

