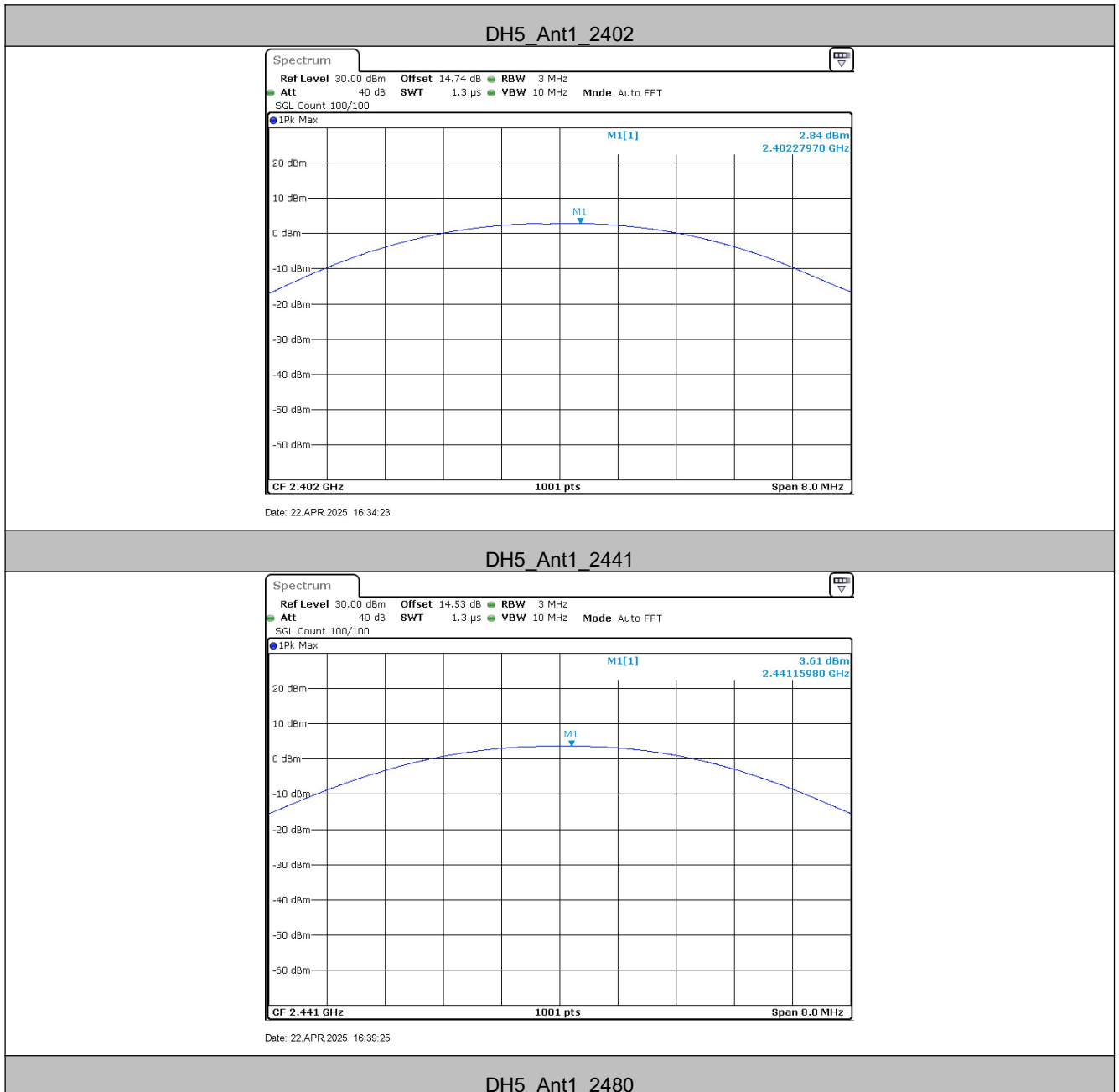
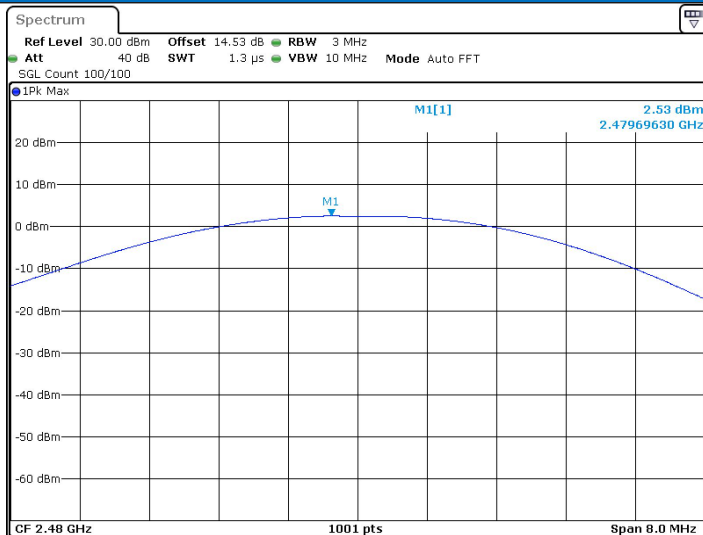


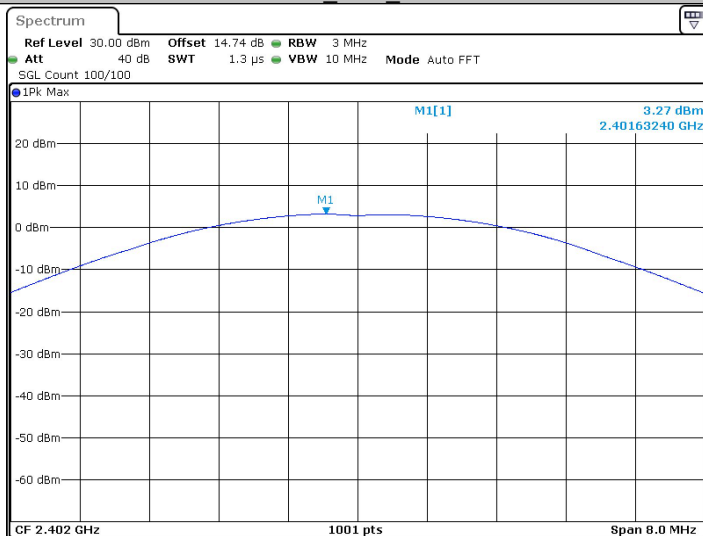
Test plot as follows:





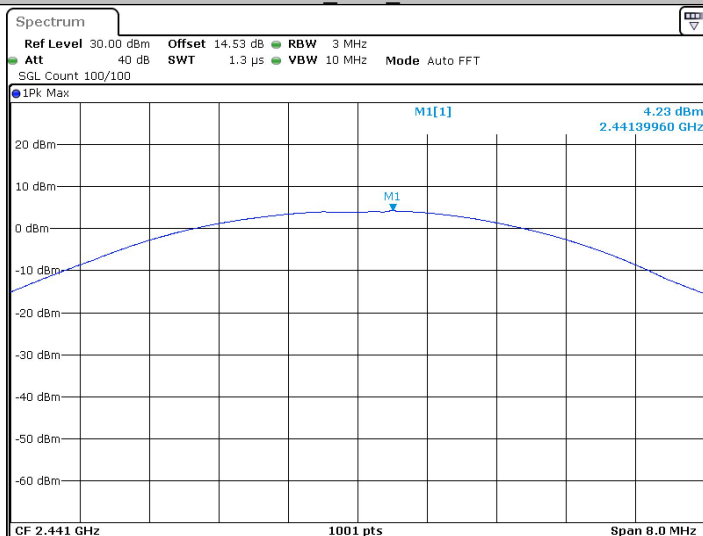
Date: 22 APR 2025 16:42:28

2DH5\_Ant1\_2402



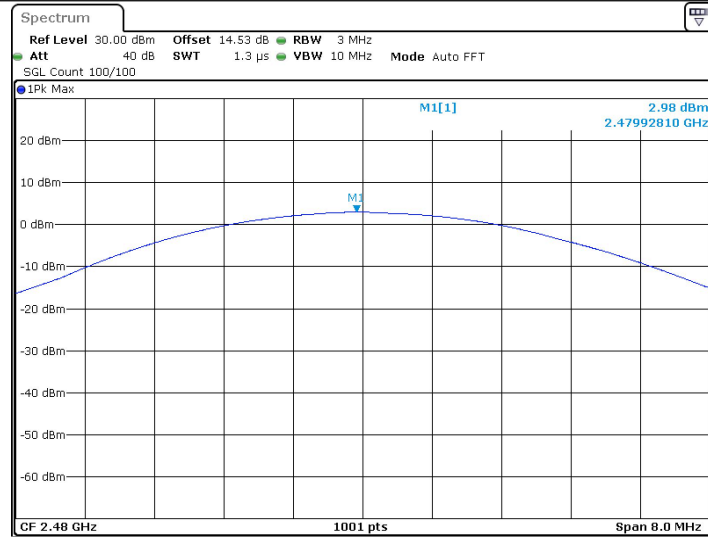
Date: 22 APR 2025 16:44:27

2DH5\_Ant1\_2441



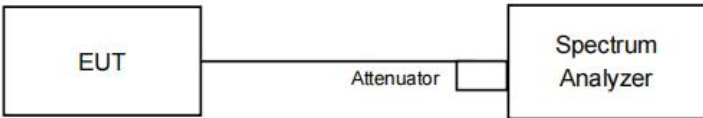
Date: 22 APR 2025 16:49:19

2DH5\_Ant1\_2480



Date: 22 APR 2025 17:00:09

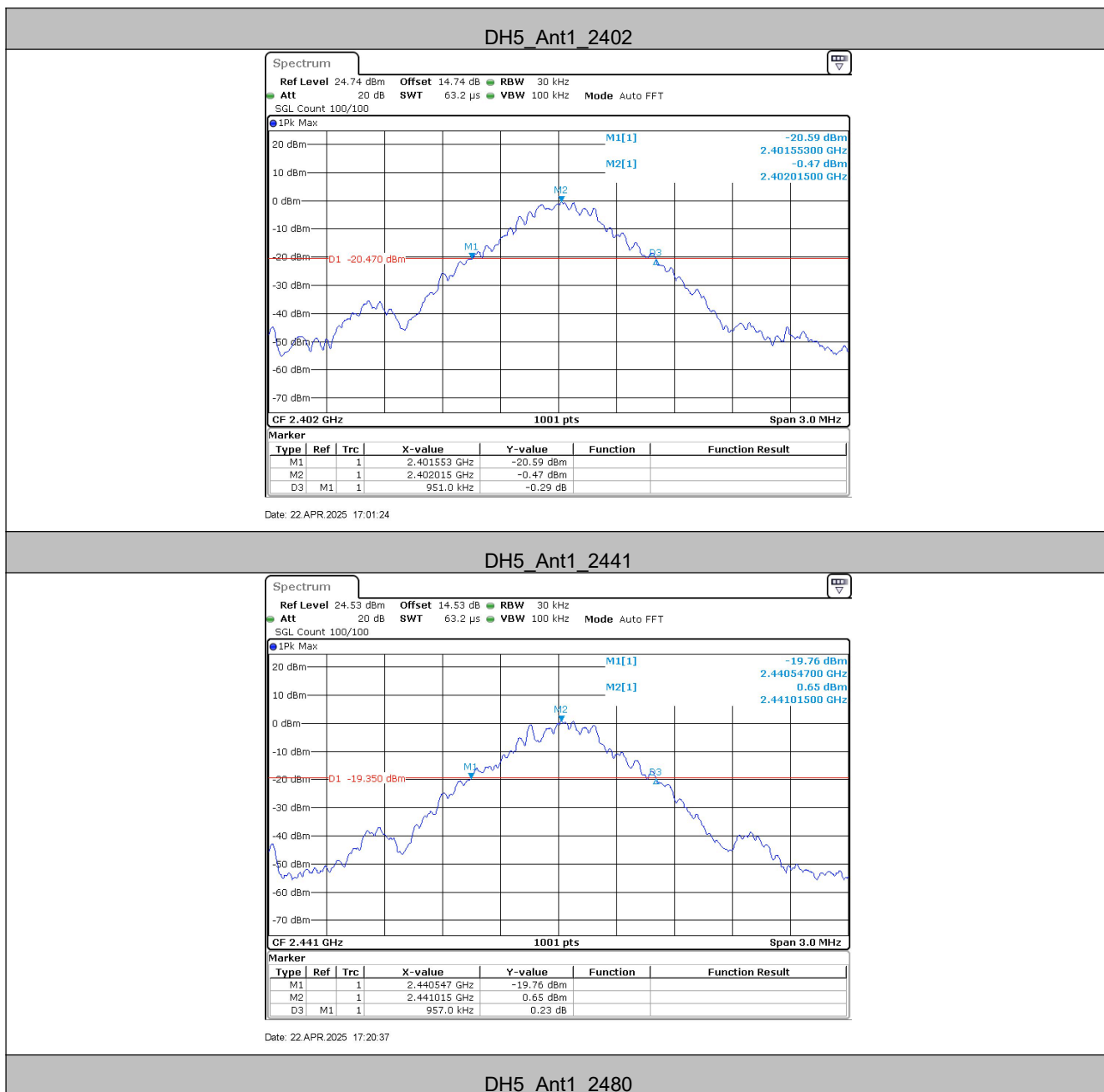
## 5.4 20dB Occupied Bandwidth

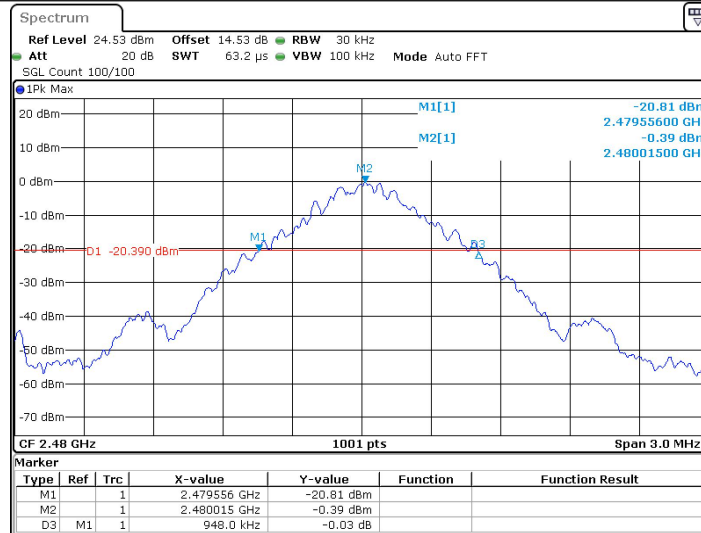
|                        |                                                                                                                                          |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement:      | 47 CFR Part 15C Section 15.247 (a)(1)                                                                                                    |
| Test Method:           | ANSI C63.10:2013                                                                                                                         |
| Test Setup:            |  <p>Remark: Offset=Cable loss+ attenuation factor.</p> |
| Limit:                 | NA                                                                                                                                       |
| Exploratory Test Mode: | Non-hopping transmitting with all kind of modulation and all kind of data type                                                           |
| Final Test Mode:       | Only the worst case is recorded in the report.                                                                                           |
| Test Results:          | Pass                                                                                                                                     |

### Measurement Data

| Test channel | 20dB Occupy Bandwidth (MHz) |               |
|--------------|-----------------------------|---------------|
|              | GFSK                        | $\pi/4$ DQPSK |
| Lowest       | 0.95                        | 1.28          |
| Middle       | 0.96                        | 1.29          |
| Highest      | 0.95                        | 1.28          |

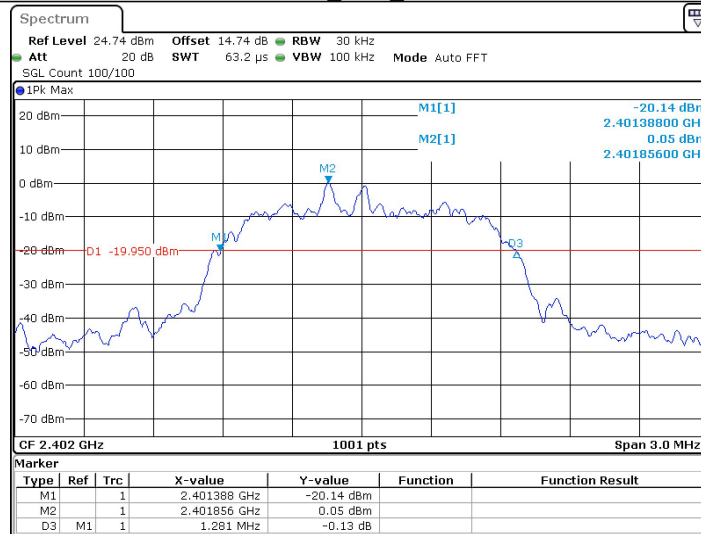
Test plot as follows:





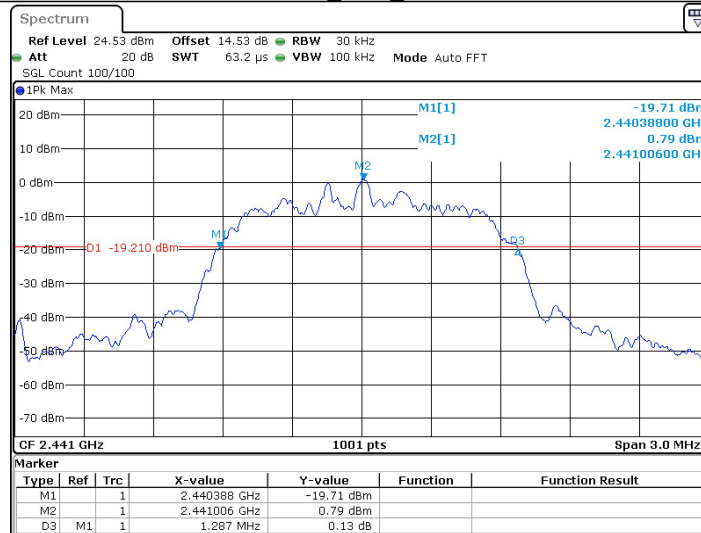
Date: 22 APR 2025 17:21:17

### 2DH5\_Ant1\_2402



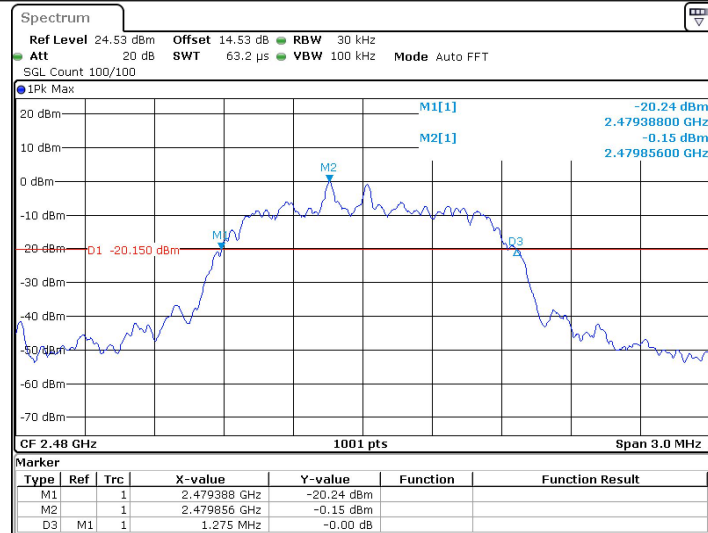
Date: 22 APR 2025 17:23:07

### 2DH5\_Ant1\_2441



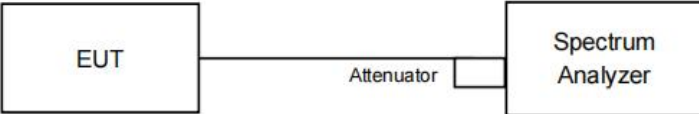
Date: 22 APR 2025 17:24:26

### 2DH5\_Ant1\_2480



Date: 22 APR 2025 17:30:01

## 5.5 Carrier Frequencies Separation

|                        |                                                                                                                                          |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement:      | 47 CFR Part 15C Section 15.247 (a)(1)                                                                                                    |
| Test Method:           | ANSI C63.10:2013                                                                                                                         |
| Test Setup:            |  <p>Remark: Offset=Cable loss+ attenuation factor.</p> |
| Limit:                 | 2/3 of the 20dB bandwidth                                                                                                                |
|                        | Remark: the transmission power is less than 0.125W.                                                                                      |
| Exploratory Test Mode: | Hopping transmitting with all kind of modulation and all kind of data type                                                               |
| Final Test Mode:       | Only the worst case is recorded in the report.                                                                                           |
| Test Results:          | Pass                                                                                                                                     |

Measurement Data

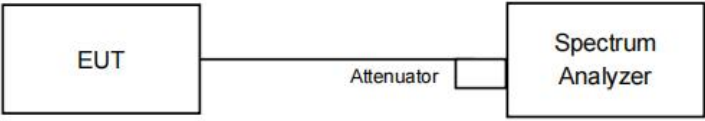
| TestMode | Freq(MHz) | Result[MHz] | Limit[MHz] | Verdict |
|----------|-----------|-------------|------------|---------|
| DH5      | Hop       | 0.997       | ≥0.64      | PASS    |
| 2DH5     | Hop       | 1.035       | ≥0.860     | PASS    |

| Mode          | 20dB bandwidth (MHz)<br>(worse case) | Limit (MHz)<br>(Carrier Frequencies Separation) |
|---------------|--------------------------------------|-------------------------------------------------|
| GFSK          | 0.96                                 | ≥0.64                                           |
| $\pi/4$ DQPSK | 1.29                                 | ≥0.860                                          |

Test plot as follows:



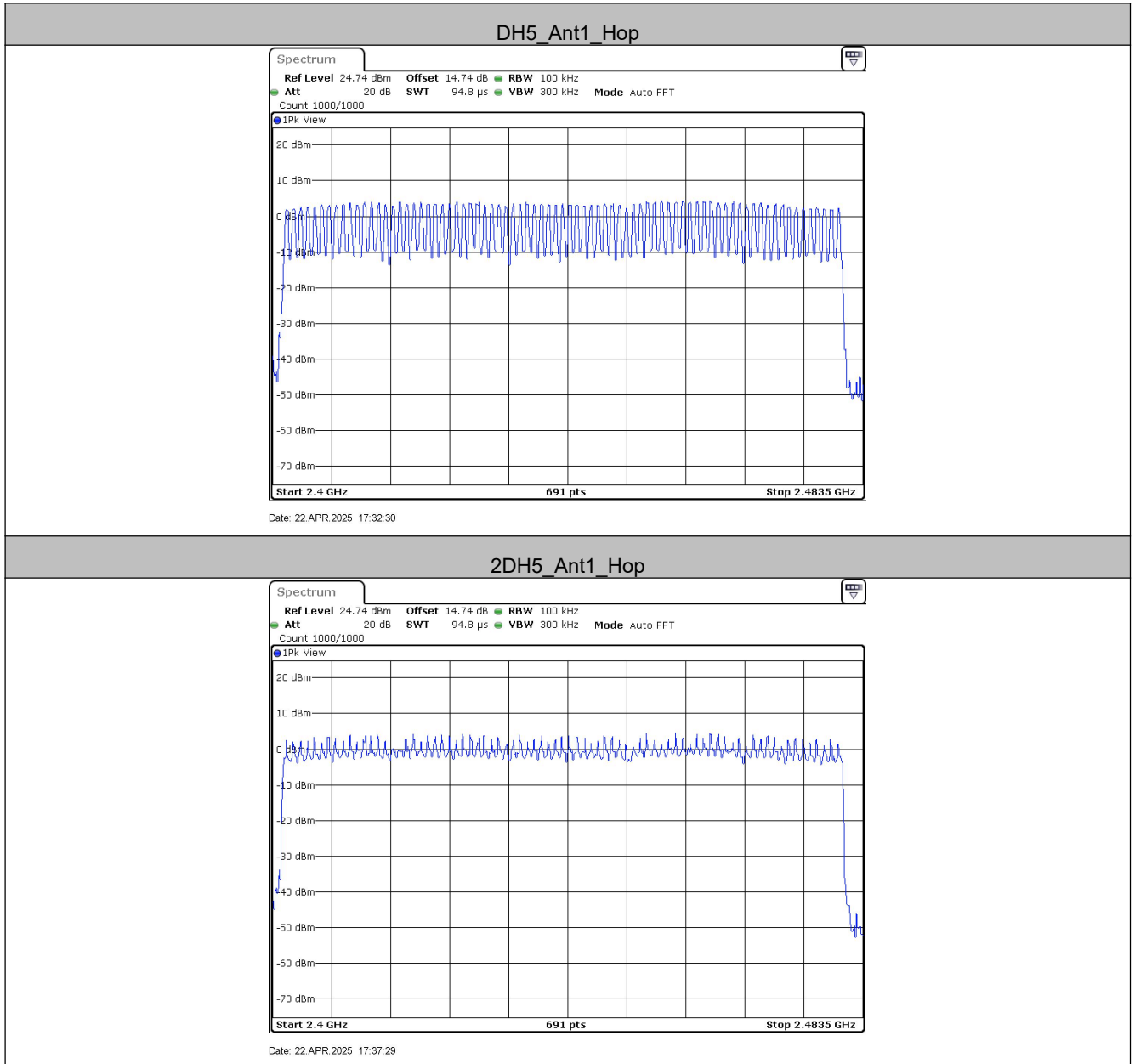
## 5.6 Hopping Channel Number

|                        |                                                                                                                                                 |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement:      | 47 CFR Part 15C Section 15.247 (a)(1)                                                                                                           |
| Test Method:           | ANSI C63.10:2013                                                                                                                                |
| Test Setup:            |  <p><i>Remark: Offset=Cable loss+ attenuation factor.</i></p> |
| Limit:                 | At least 15 channels                                                                                                                            |
| Exploratory Test Mode: | hopping transmitting with all kind of modulation and all kind of data type                                                                      |
| Final Test Mode:       | Only the worst case is recorded in the report.                                                                                                  |
| Test Results:          | Pass                                                                                                                                            |

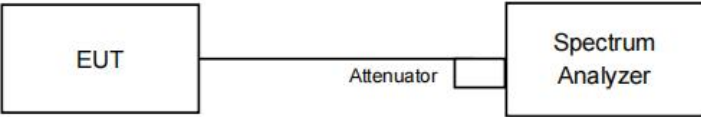
### Measurement Data

| Mode          | Hopping channel numbers | Limit |
|---------------|-------------------------|-------|
| GFSK          | 79                      | ≥15   |
| $\pi/4$ DQPSK | 79                      | ≥15   |

Test plot as follows:



## 5.7 Dwell Time

|                   |                                                                                                                                                 |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR Part 15C Section 15.247 (a)(1)                                                                                                           |
| Test Method:      | ANSI C63.10:2013                                                                                                                                |
| Test Setup:       |  <p><i>Remark: Offset=Cable loss+ attenuation factor.</i></p> |
| Test Mode:        | Hopping transmitting with all kind of modulation and all kind of data type.                                                                     |
| Limit:            | 0.4 Second                                                                                                                                      |
| Test Results:     | Pass                                                                                                                                            |

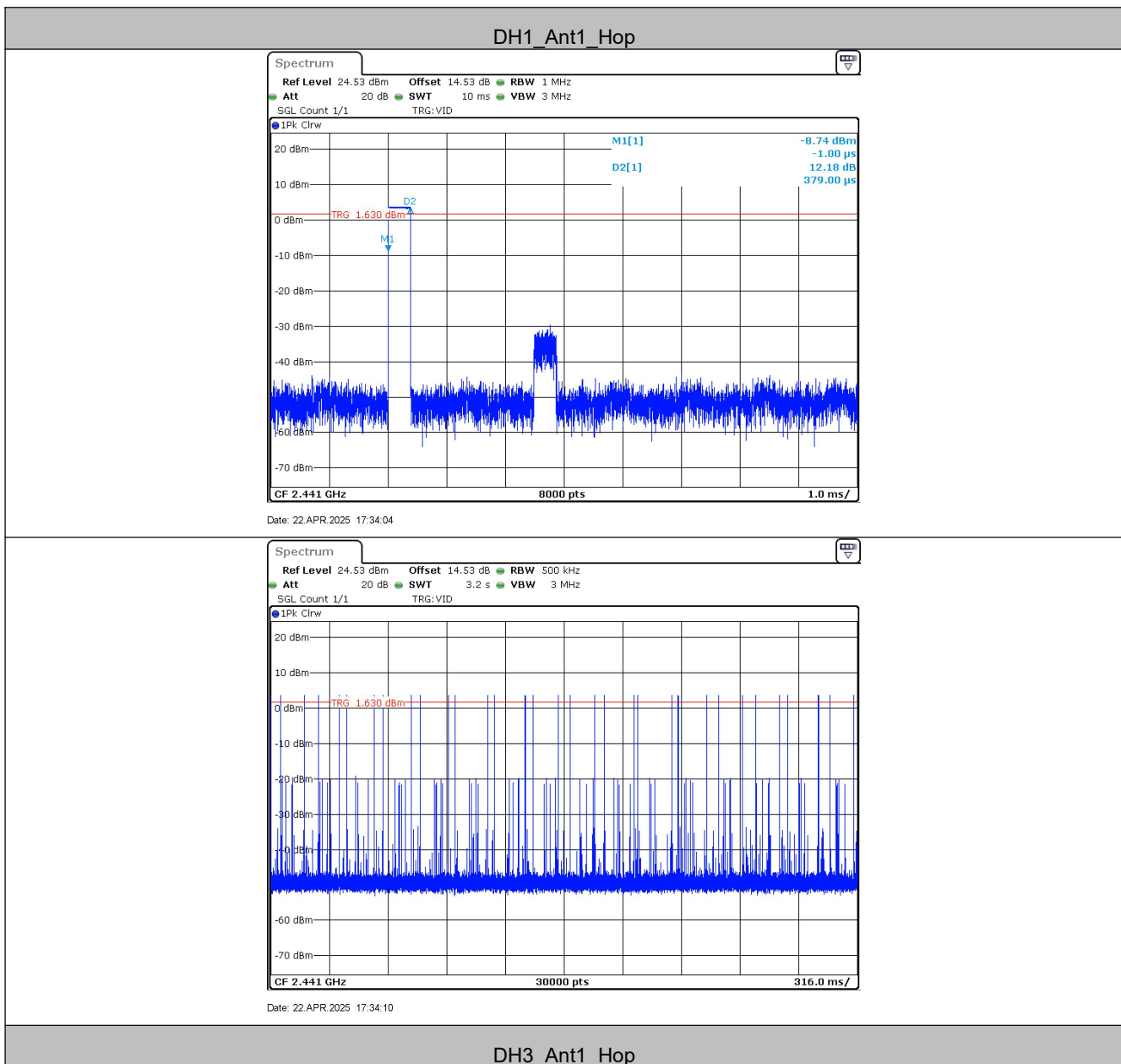
**Measurement Data**

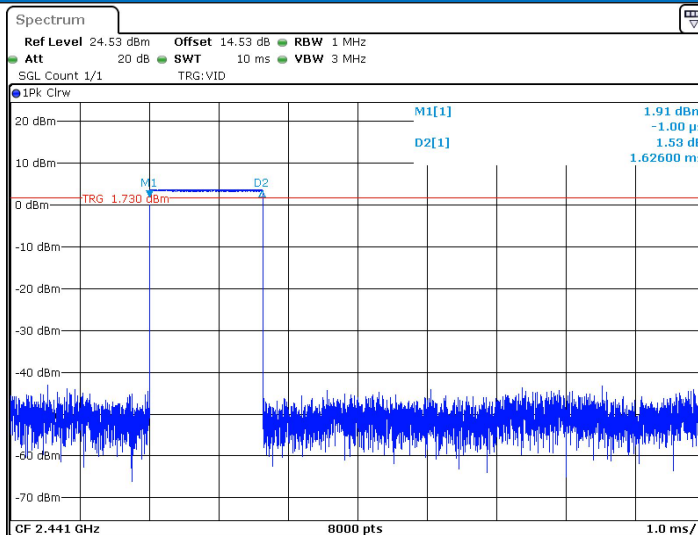
| TestMode | Freq(MHz) | BurstWidth<br>[ms] | TotalHops<br>[Num] | Result[s] | Limit[s] | Verdict |
|----------|-----------|--------------------|--------------------|-----------|----------|---------|
| DH1      | Hop       | 0.379              | 330                | 0.125     | ≤0.4     | PASS    |
| DH3      | Hop       | 1.626              | 170                | 0.276     | ≤0.4     | PASS    |
| DH5      | Hop       | 2.868              | 120                | 0.344     | ≤0.4     | PASS    |
| 2DH1     | Hop       | 0.389              | 330                | 0.128     | ≤0.4     | PASS    |
| 2DH3     | Hop       | 1.633              | 150                | 0.245     | ≤0.4     | PASS    |
| 2DH5     | Hop       | 2.873              | 80                 | 0.23      | ≤0.4     | PASS    |

**Remark:**

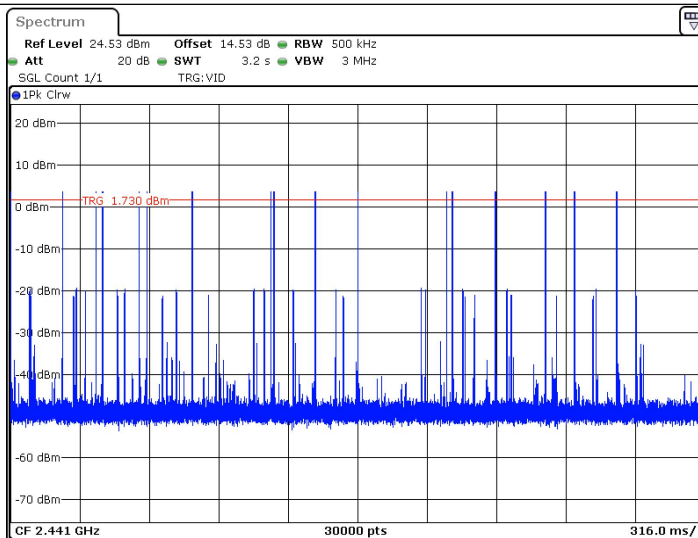
The test period:  $T = 0.4 \text{ Second/Channel} \times 79 \text{ Channel} = 31.6 \text{ s}$

Test plot as follows:



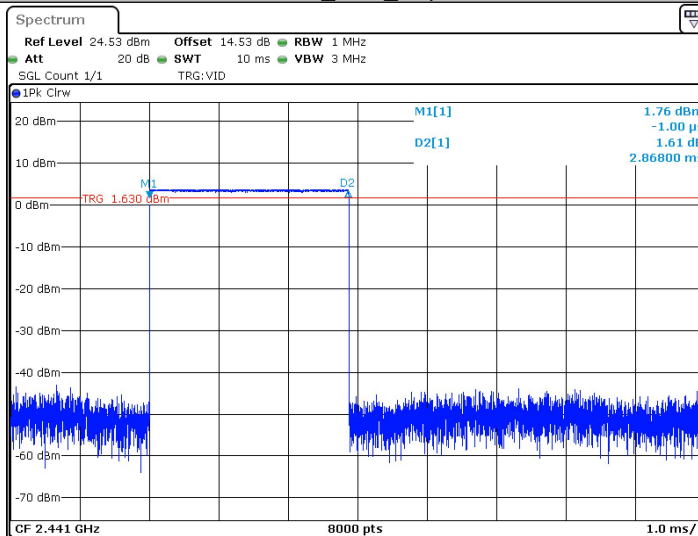


Date: 22 APR 2025 17:35:23

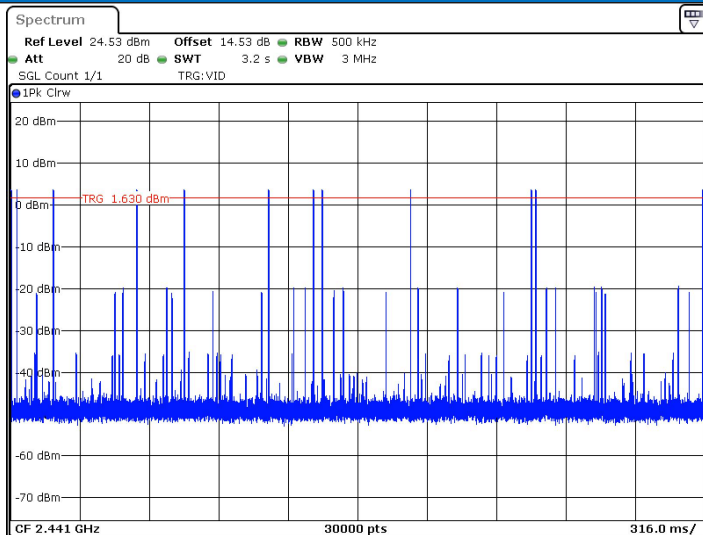


Date: 22 APR 2025 17:35:29

### DH5\_Ant1\_Hop

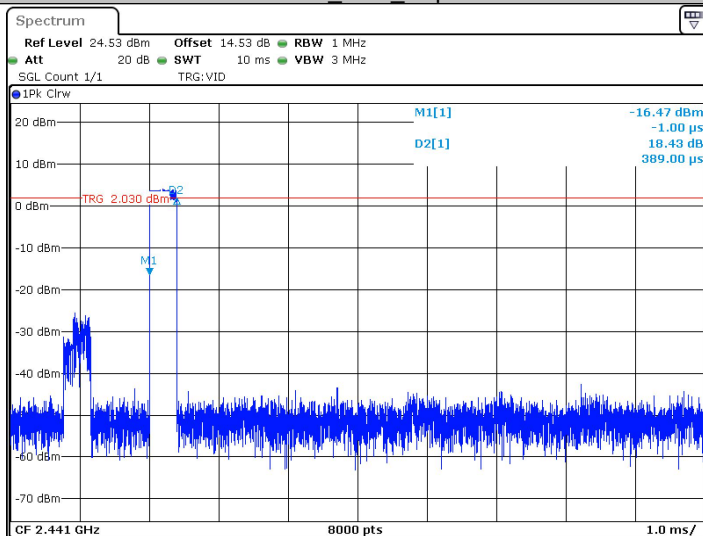


Date: 22 APR 2025 17:41:08

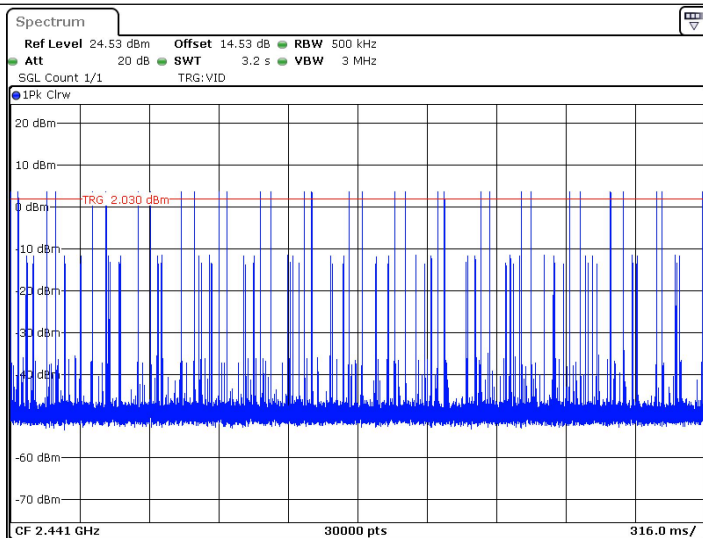


Date: 22 APR 2025 17:41:13

### 2DH1\_Ant1\_Hop

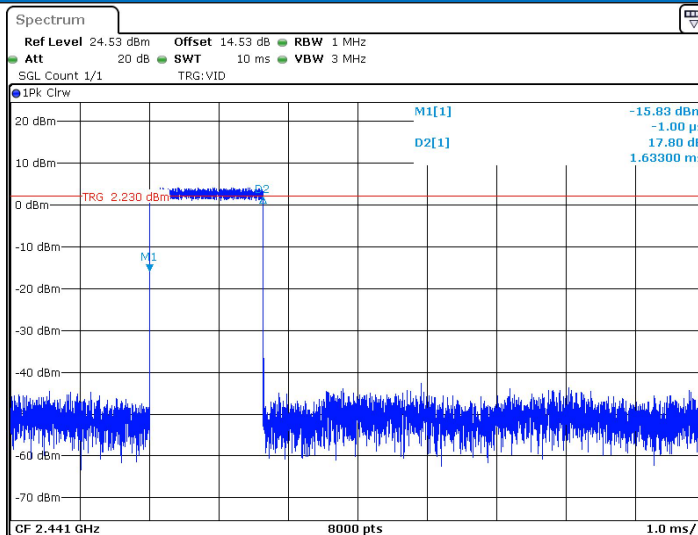


Date: 22 APR 2025 17:38:20

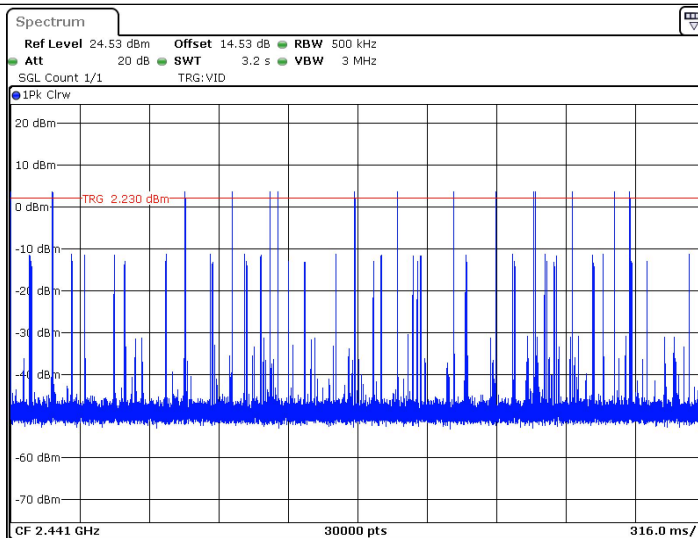


Date: 22 APR 2025 17:38:25

### 2DH3\_Ant1\_Hop

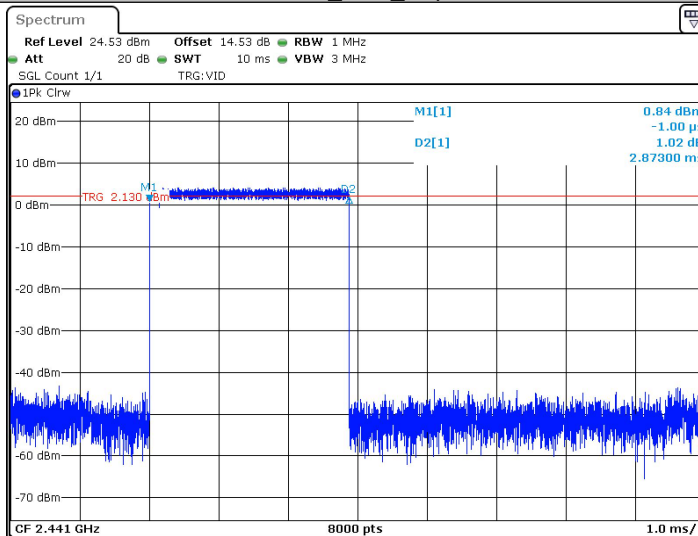


Date: 22 APR 2025 17:38:46

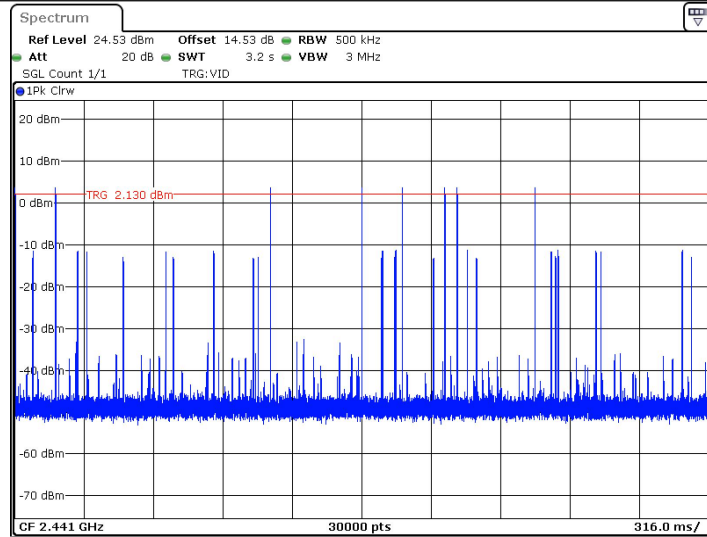


Date: 22 APR 2025 17:38:52

### 2DH5\_Ant1\_Hop

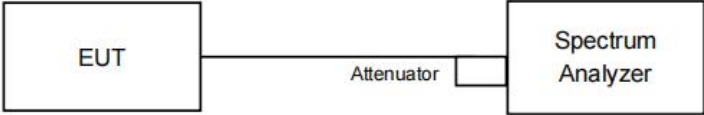


Date: 22 APR 2025 17:37:45



Date: 22 APR 2025 17:37:50

## 5.8 Band-edge for RF Conducted Emissions

|                        |                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement:      | 47 CFR Part 15C Section 15.247 (d)                                                                                                                                                                                                                                                                                                                                                      |
| Test Method:           | ANSI C63.10:2013                                                                                                                                                                                                                                                                                                                                                                        |
| Test Setup:            |  <p><i>Remark: Offset=cable loss+ attenuation factor.</i></p>                                                                                                                                                                                                                                         |
| Limit:                 | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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. |
| Exploratory Test Mode: | Hopping and Non-hopping transmitting with all kind of modulation and all kind of data type                                                                                                                                                                                                                                                                                              |
| Final Test Mode:       | Only the worst case is recorded in the report.                                                                                                                                                                                                                                                                                                                                          |
| Test Results:          | Pass                                                                                                                                                                                                                                                                                                                                                                                    |