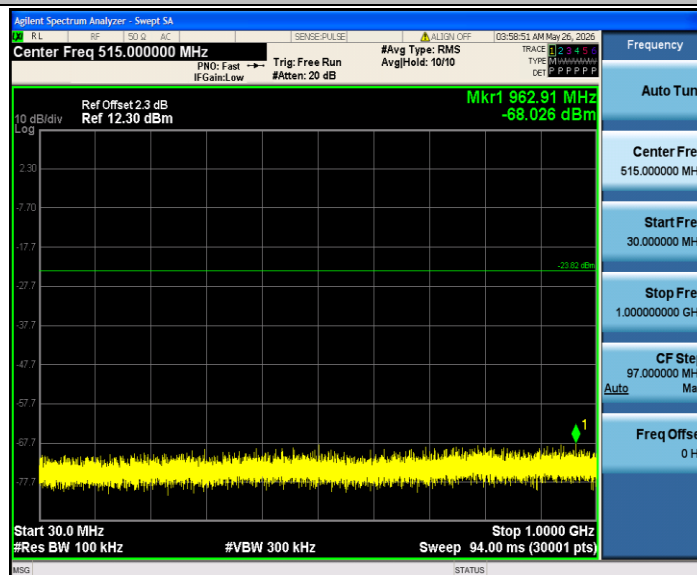
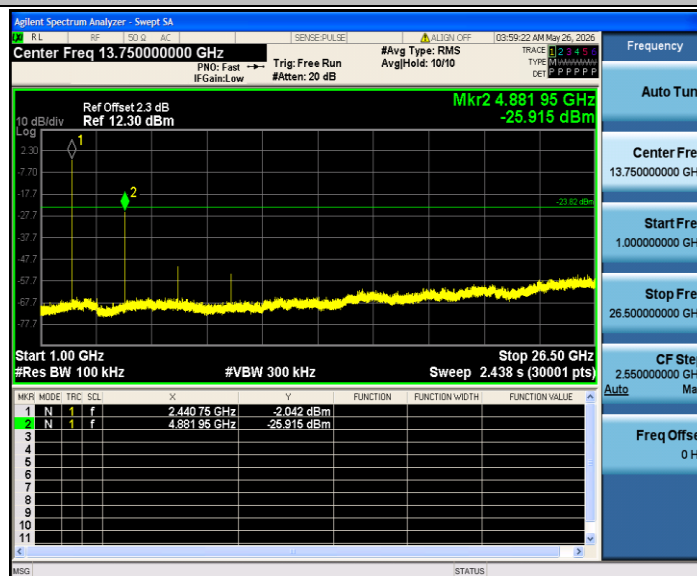




2DH5\_Ant1\_2441\_30~1000



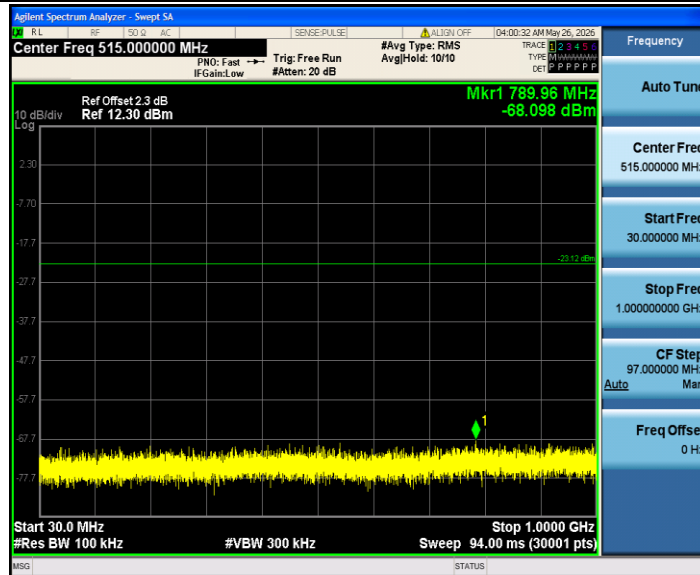
2DH5\_Ant1\_2441\_1000~26500



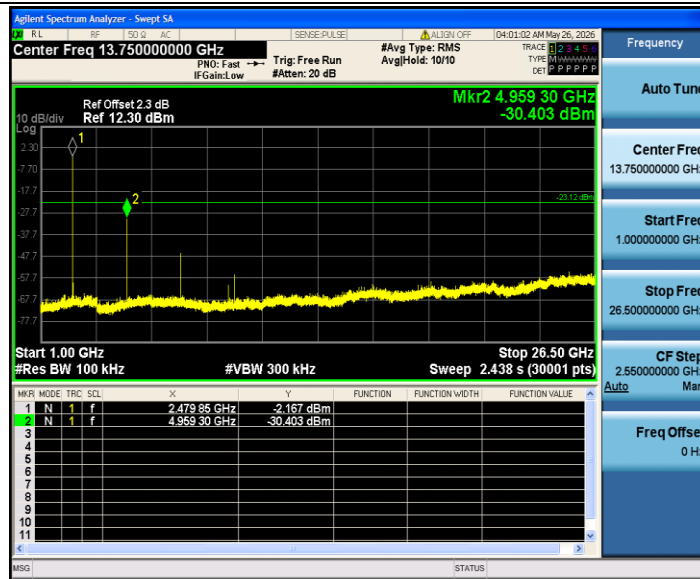
# 2DH5\_Ant1\_2480\_0~Reference



# 2DH5\_Ant1\_2480\_30~1000



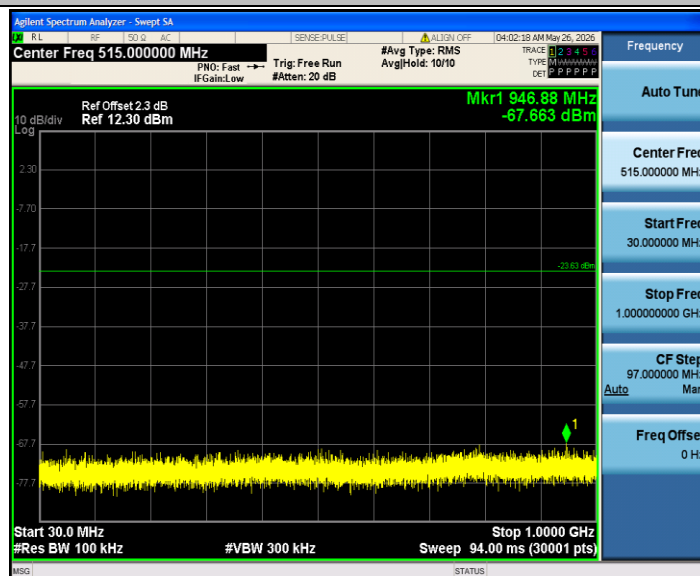
# 2DH5\_Ant1\_2480\_1000~26500



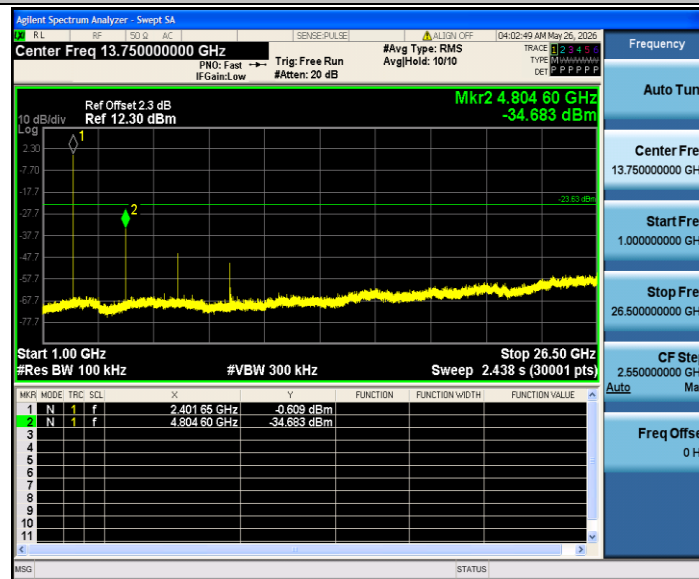
3DH5\_Ant1\_2402\_0~Reference



3DH5\_Ant1\_2402\_30~1000



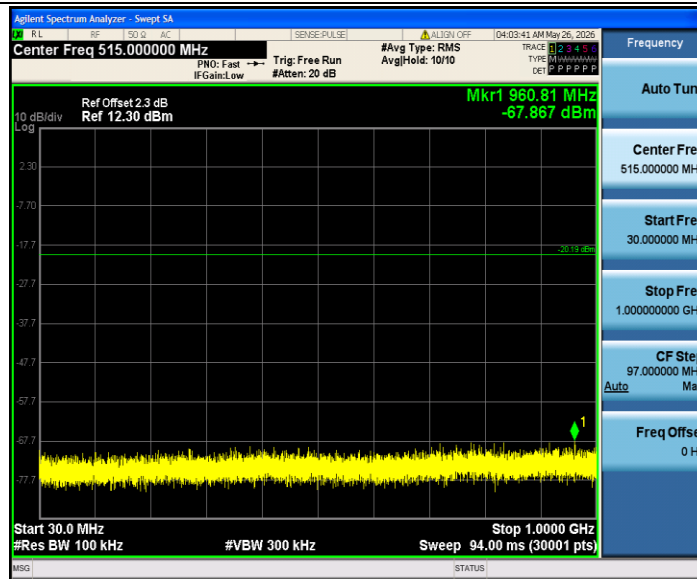
### 3DH5\_Ant1\_2402\_1000~26500



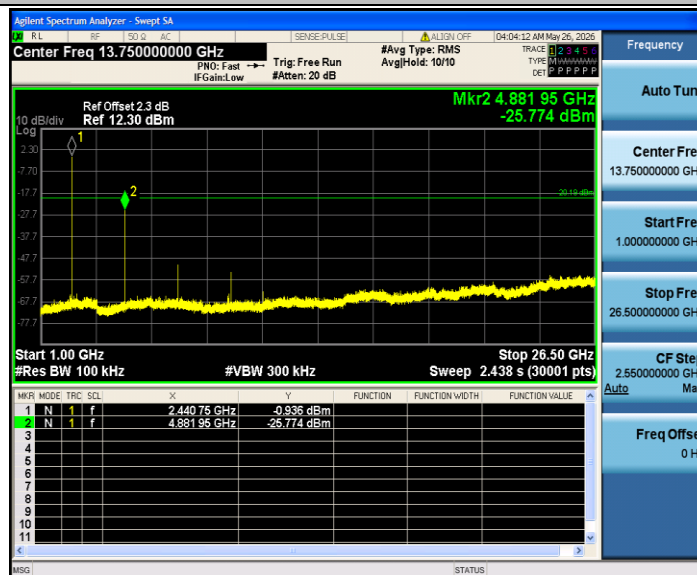
### 3DH5\_Ant1\_2441\_0~Reference



### 3DH5\_Ant1\_2441\_30~1000



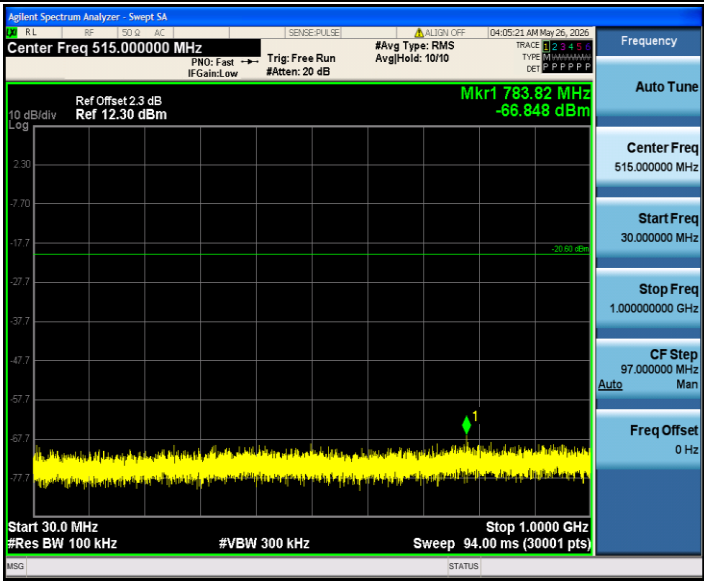
3DH5\_Ant1\_2441\_1000~26500



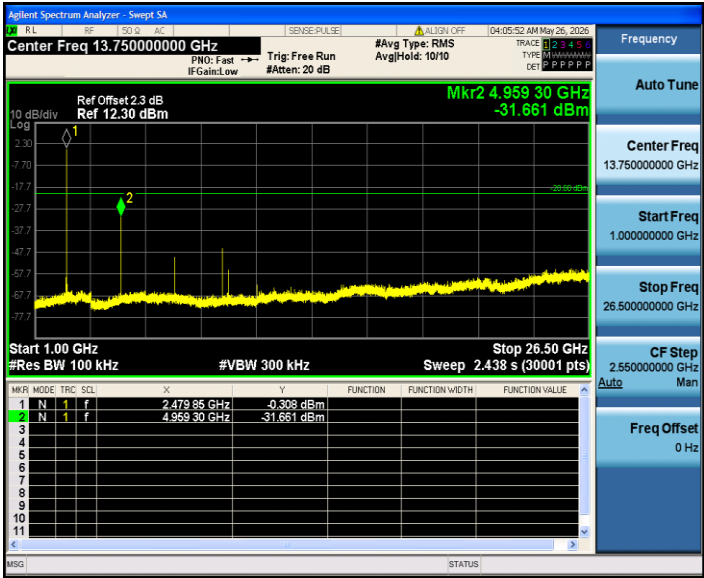
3DH5\_Ant1\_2480\_0~Reference



3DH5\_Ant1\_2480\_30~1000



3DH5\_Ant1\_2480\_1000~26500



## Appendix I: Duty Cycle

### Test Result

| TestMode | Antenna | Freq(MHz) | ON Time<br>[ms] | Period<br>[ms] | DC<br>[%] | xFactor | Limit | Verdict |
|----------|---------|-----------|-----------------|----------------|-----------|---------|-------|---------|
| DH5      | Ant1    | 2402      | 2.91            | 3.75           | 77.60     | 1.10    | ---   | ---     |
|          |         | 2441      | 2.91            | 3.75           | 77.60     | 1.10    | ---   | ---     |
|          |         | 2480      | 2.91            | 3.75           | 77.60     | 1.10    | ---   | ---     |
| 2DH5     | Ant1    | 2402      | 2.92            | 3.75           | 77.87     | 1.09    | ---   | ---     |
|          |         | 2441      | 2.92            | 3.75           | 77.87     | 1.09    | ---   | ---     |
|          |         | 2480      | 2.92            | 3.76           | 77.66     | 1.10    | ---   | ---     |
| 3DH5     | Ant1    | 2402      | 2.92            | 3.75           | 77.87     | 1.09    | ---   | ---     |
|          |         | 2441      | 2.92            | 3.75           | 77.87     | 1.09    | ---   | ---     |
|          |         | 2480      | 2.92            | 3.75           | 77.87     | 1.09    | ---   | ---     |

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.402000000 GHz

Trig Delay: 2.000 ms #Avg Type: RMS

Ref Offset 0.3 dB Ref 10.30 dBm

IF Gain: Low #Atten: 20 dB

ΔMkr3 3.750 ms 10.24 dB

2Δ1 3Δ1

Center 2.402000000 GHz Res BW 8 MHz #VBW 8.0 MHz Sweep 7.000 ms (1001 pts) Span 0 Hz

| MKR | MODE | TRIG | SCL | X        | Y            | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE |
|-----|------|------|-----|----------|--------------|----------|----------------|----------------|
| 1   | N    | 1    | t   | 1.980 ms | -23.10 dBm   |          |                |                |
| 2   | Δ1   | 1    | t   | (Δ)      | 2.910 ms (Δ) | 23.44 dB |                |                |
| 3   | Δ1   | 1    | t   | (Δ)      | 3.750 ms (Δ) | 10.24 dB |                |                |

Frequency

Auto Tune

Center Freq 2.402000000 GHz

Start Freq 2.402000000 GHz

Stop Freq 2.402000000 GHz

CF Step 8.000000 MHz Man

Freq Offset 0 Hz

DH5\_Ant1\_2402

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Trig Delay: 2.000 ms #Avg Type: RMS

Ref Offset 0.3 dB Ref 10.30 dBm

IF Gain: Low #Atten: 20 dB

ΔMkr3 3.750 ms 4.57 dB

2Δ1 3Δ1

Center 2.441000000 GHz Res BW 8 MHz #VBW 8.0 MHz Sweep 7.000 ms (1001 pts) Span 0 Hz

| MKR | MODE | TRIG | SCL | X        | Y            | FUNCTION | FUNCTION WIDTH | FUNCTION VALUE |
|-----|------|------|-----|----------|--------------|----------|----------------|----------------|
| 1   | N    | 1    | t   | 1.980 ms | -16.70 dBm   |          |                |                |
| 2   | Δ1   | 1    | t   | (Δ)      | 2.910 ms (Δ) | 16.23 dB |                |                |
| 3   | Δ1   | 1    | t   | (Δ)      | 3.750 ms (Δ) | 4.57 dB  |                |                |

Frequency

Auto Tune

Center Freq 2.441000000 GHz

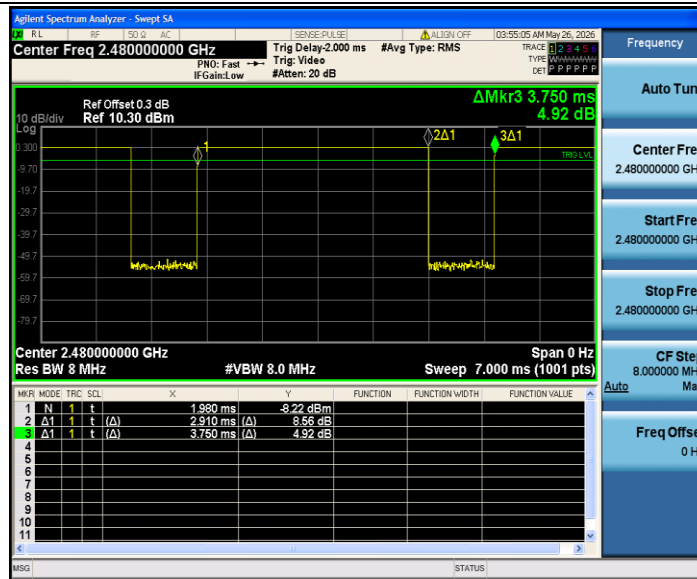
Start Freq 2.441000000 GHz

Stop Freq 2.441000000 GHz

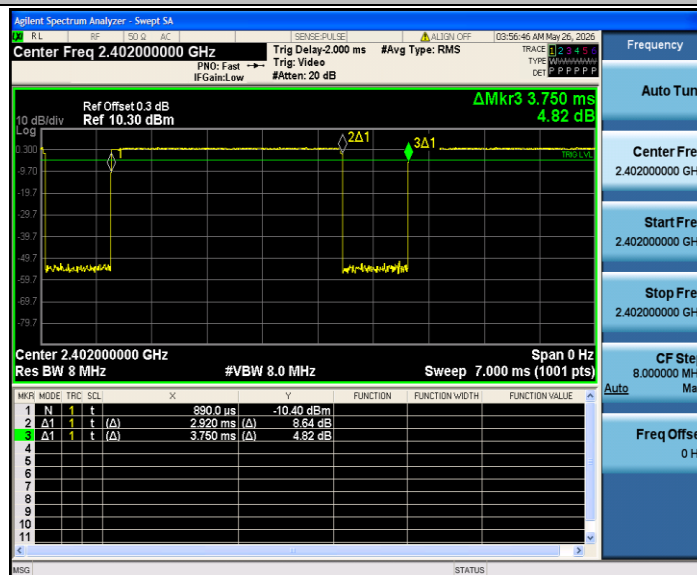
CF Step 8.000000 MHz Man

Freq Offset 0 Hz

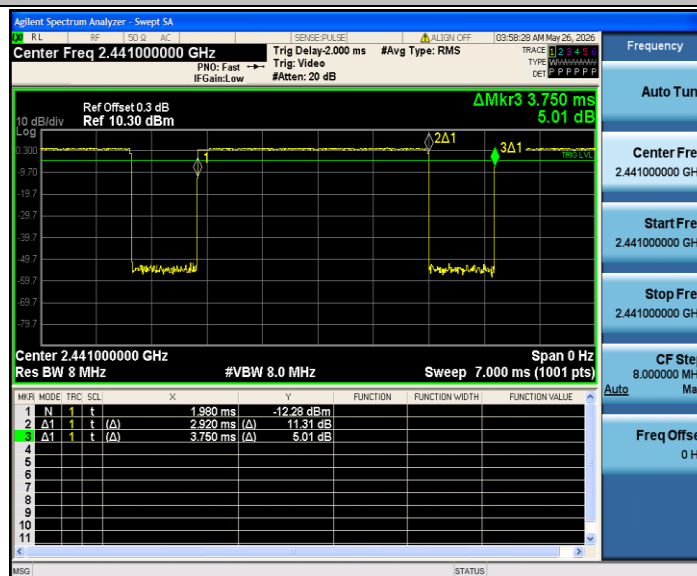
DH5\_Ant1\_2441



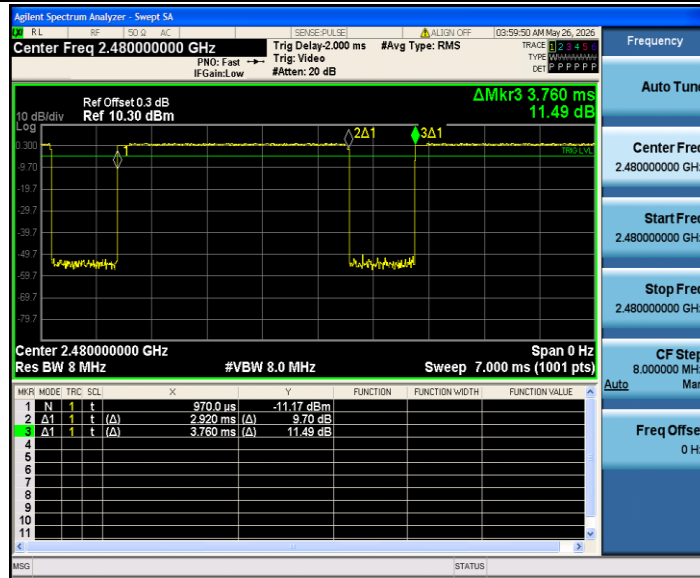
2DH5\_Ant1\_2402



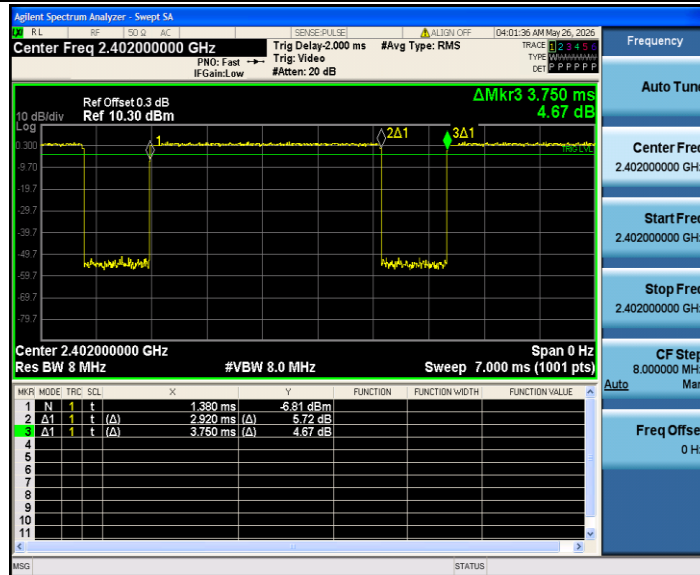
2DH5\_Ant1\_2441



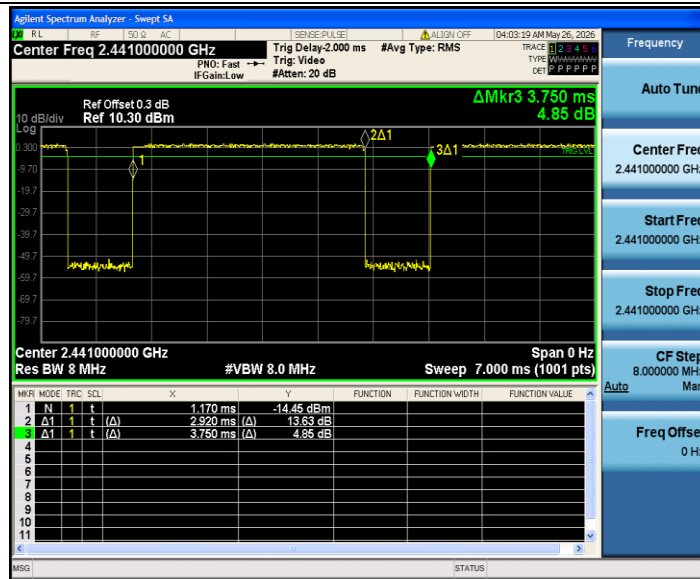
## 2DH5\_Ant1\_2480



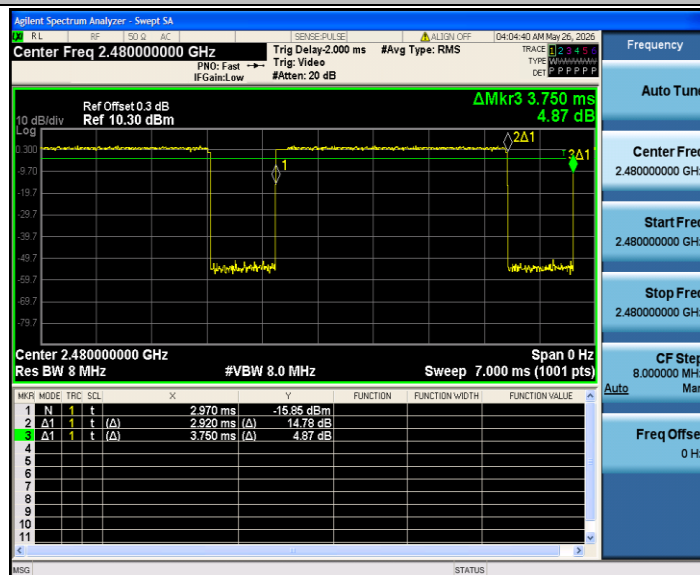
## 3DH5\_Ant1\_2402



## 3DH5\_Ant1\_2441



3DH5\_Ant1\_2480



## Appendix J: Emissions in Restricted Bands

### Test Result

| TestMod<br>e | Antenn<br>a | ChNam<br>e | Freq(MH<br>z) | Detector | Freq<br>[MHz] | Result<br>[dBm] | Gain<br>[dB] | DC<br>Factor<br>[dB] | Result<br>[dBuV/m] | Limit<br>[dBuV/m] | Verdict |
|--------------|-------------|------------|---------------|----------|---------------|-----------------|--------------|----------------------|--------------------|-------------------|---------|
| DH5          | Ant1        | Low        | 2402          | AV       | 2310.000      | -60.38          | 2.00         | 1.10                 | 37.92              | ≤54               | PASS    |
|              |             |            |               | AV       | 2354.495      | -59.1           | 2.00         | 1.10                 | 39.20              | ≤54               | PASS    |
|              |             |            |               | AV       | 2390.000      | -60.22          | 2.00         | 1.10                 | 38.08              | ≤54               | PASS    |
|              |             |            |               | Peak     | 2310.000      | -52.37          | 2.00         | 0.00                 | 44.83              | ≤74               | PASS    |
|              |             |            |               | Peak     | 2344.310      | -48.72          | 2.00         | 0.00                 | 48.48              | ≤74               | PASS    |
|              |             |            |               | Peak     | 2390.000      | -51.7           | 2.00         | 0.00                 | 45.50              | ≤74               | PASS    |
|              |             | High       | 2480          | AV       | 2483.500      | -58.19          | 2.00         | 1.10                 | 40.11              | ≤54               | PASS    |
|              |             |            |               | AV       | 2485.280      | -57.18          | 2.00         | 1.10                 | 41.12              | ≤54               | PASS    |
|              |             |            |               | AV       | 2500.000      | -59.7           | 2.00         | 1.10                 | 38.60              | ≤54               | PASS    |
|              |             |            |               | Peak     | 2483.500      | -49.24          | 2.00         | 0.00                 | 47.96              | ≤74               | PASS    |
|              |             |            |               | Peak     | 2483.600      | -43.48          | 2.00         | 0.00                 | 53.72              | ≤74               | PASS    |
|              |             |            |               | Peak     | 2500.000      | -51.86          | 2.00         | 0.00                 | 45.34              | ≤74               | PASS    |
| 2DH5         | Ant1        | Low        | 2402          | AV       | 2310.000      | -59.57          | 2.00         | 1.09                 | 38.72              | ≤54               | PASS    |
|              |             |            |               | AV       | 2377.700      | -59.15          | 2.00         | 1.09                 | 39.14              | ≤54               | PASS    |
|              |             |            |               | AV       | 2390.000      | -59.74          | 2.00         | 1.09                 | 38.55              | ≤54               | PASS    |
|              |             |            |               | Peak     | 2310.000      | -52.07          | 2.00         | 0.00                 | 45.13              | ≤74               | PASS    |
|              |             |            |               | Peak     | 2326.040      | -49.18          | 2.00         | 0.00                 | 48.02              | ≤74               | PASS    |
|              |             |            |               | Peak     | 2390.000      | -49.77          | 2.00         | 0.00                 | 47.43              | ≤74               | PASS    |
|              |             | High       | 2480          | AV       | 2483.500      | -57.76          | 2.00         | 1.10                 | 40.54              | ≤54               | PASS    |
|              |             |            |               | AV       | 2483.760      | -57.32          | 2.00         | 1.10                 | 40.98              | ≤54               | PASS    |
|              |             |            |               | AV       | 2500.000      | -59.52          | 2.00         | 1.10                 | 38.78              | ≤54               | PASS    |
|              |             |            |               | Peak     | 2483.500      | -48.95          | 2.00         | 0.00                 | 48.25              | ≤74               | PASS    |
|              |             |            |               | Peak     | 2483.920      | -44.82          | 2.00         | 0.00                 | 52.38              | ≤74               | PASS    |
|              |             |            |               | Peak     | 2500.000      | -51.32          | 2.00         | 0.00                 | 45.88              | ≤74               | PASS    |
| 3DH5         | Ant1        | Low        | 2402          | AV       | 2310.000      | -60.44          | 2.00         | 1.09                 | 37.85              | ≤54               | PASS    |
|              |             |            |               | AV       | 2382.950      | -59.05          | 2.00         | 1.09                 | 39.24              | ≤54               | PASS    |
|              |             |            |               | AV       | 2390.000      | -60.11          | 2.00         | 1.09                 | 38.18              | ≤54               | PASS    |
|              |             |            |               | Peak     | 2310.000      | -50.63          | 2.00         | 0.00                 | 46.57              | ≤74               | PASS    |
|              |             |            |               | Peak     | 2373.920      | -48.5           | 2.00         | 0.00                 | 48.70              | ≤74               | PASS    |
|              |             |            |               | Peak     | 2390.000      | -50.78          | 2.00         | 0.00                 | 46.42              | ≤74               | PASS    |
|              |             | High       | 2480          | AV       | 2483.500      | -58.03          | 2.00         | 1.09                 | 40.26              | ≤54               | PASS    |
|              |             |            |               | AV       | 2483.760      | -57.59          | 2.00         | 1.09                 | 40.70              | ≤54               | PASS    |
|              |             |            |               | AV       | 2500.000      | -59.5           | 2.00         | 1.09                 | 38.79              | ≤54               | PASS    |
|              |             |            |               | Peak     | 2483.500      | -39.71          | 2.00         | 0.00                 | 57.49              | ≤74               | PASS    |
|              |             |            |               | Peak     | 2483.520      | -39.71          | 2.00         | 0.00                 | 57.49              | ≤74               | PASS    |
|              |             |            |               | Peak     | 2500.000      | -51.23          | 2.00         | 0.00                 | 45.97              | ≤74               | PASS    |

Note:

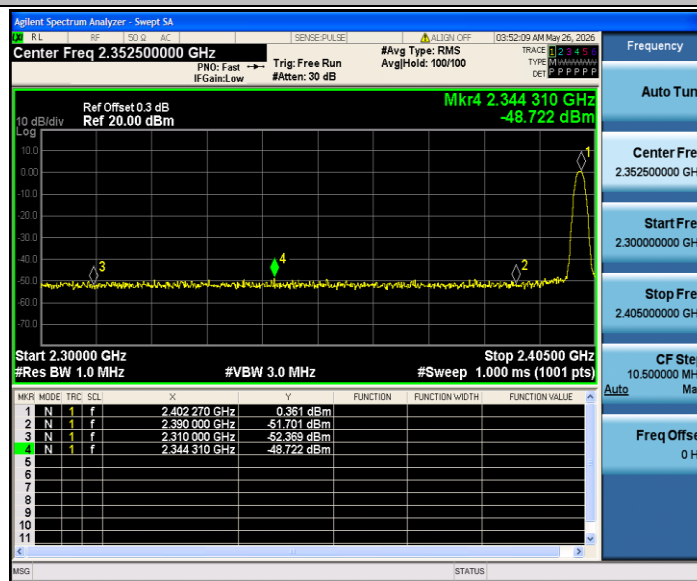
1. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

## Test Graphs

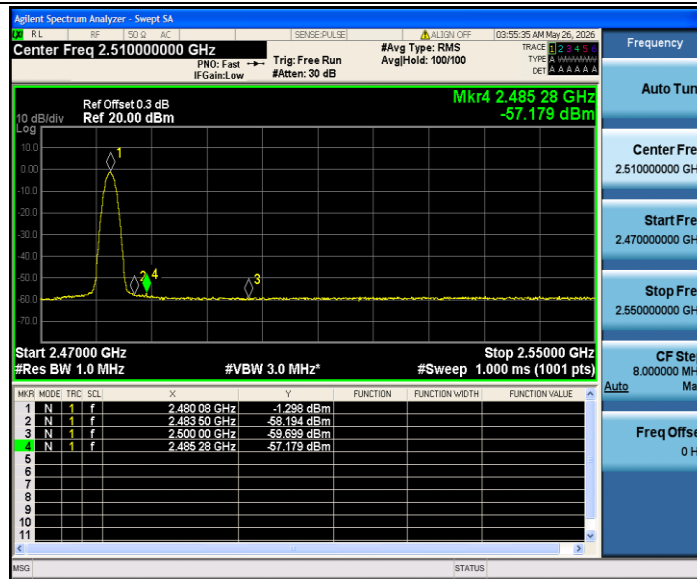
DH5\_Ant1\_Low\_2402\_AV



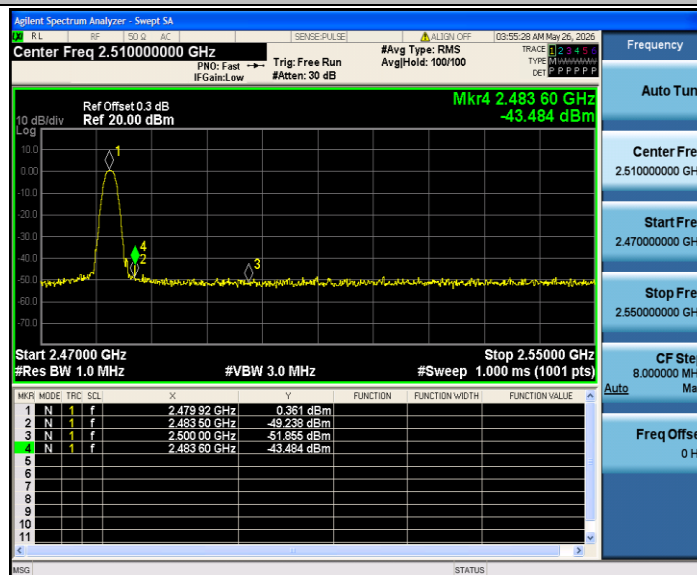
DH5\_Ant1\_Low\_2402\_Peak



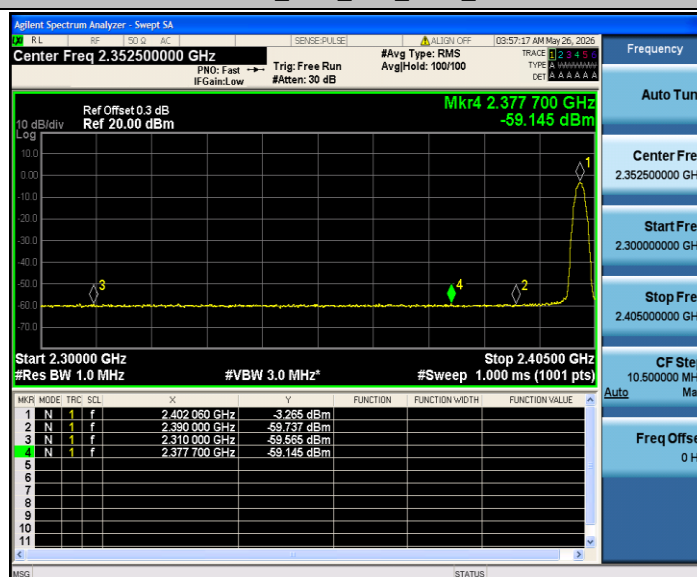
DH5\_Ant1\_High\_2480\_AV



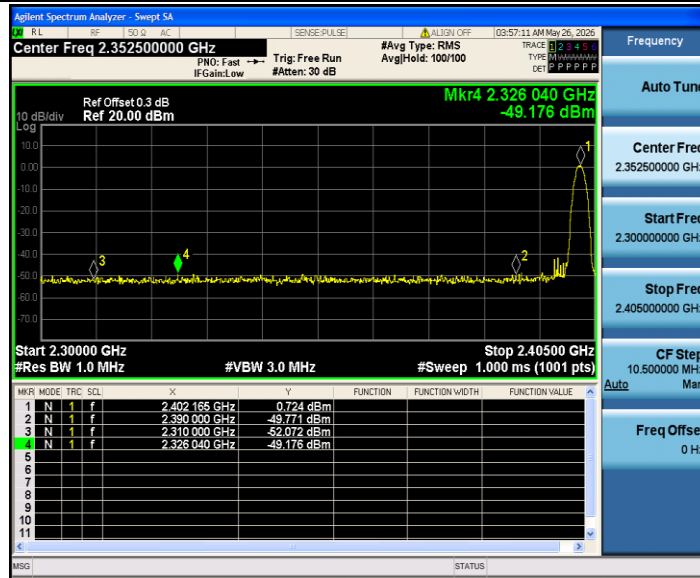
DH5\_Ant1\_High\_2480\_Peak



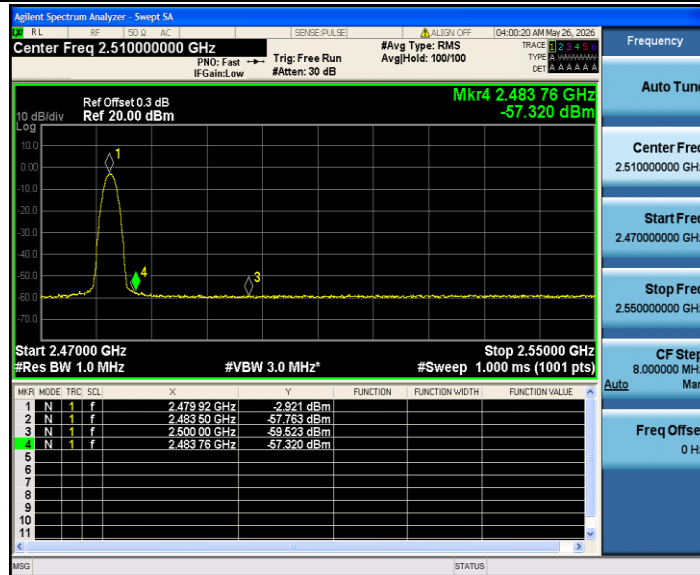
2DH5\_Ant1\_Low\_2402\_AV



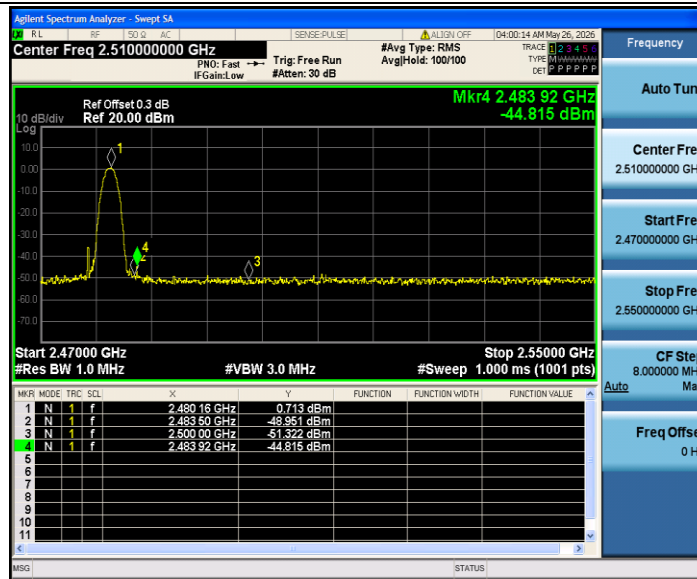
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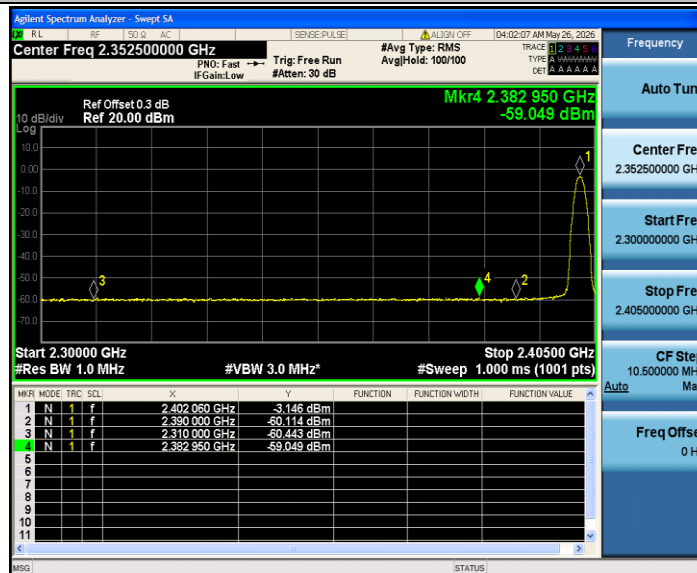
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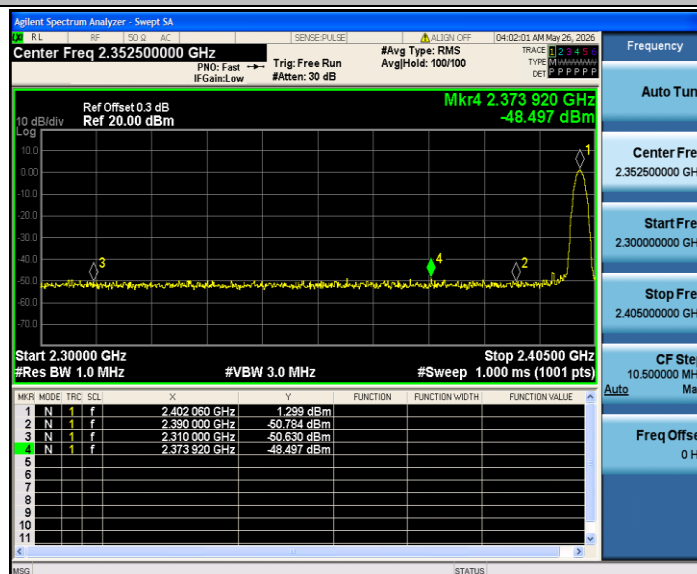
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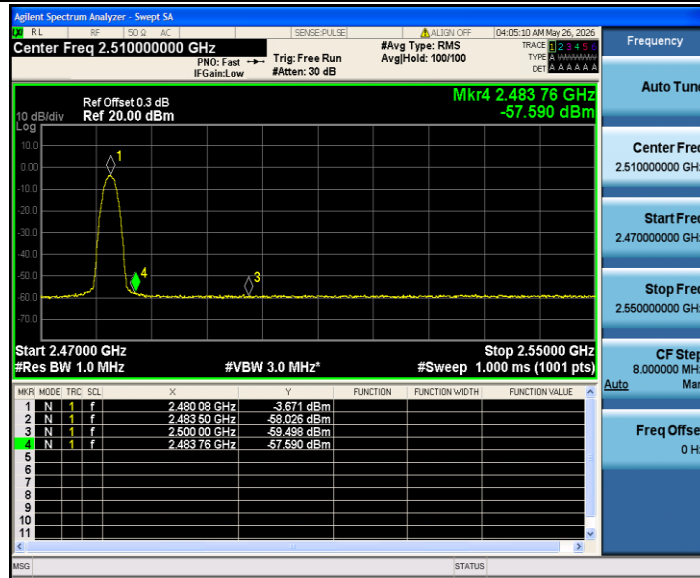
3DH5\_Ant1\_Low\_2402\_AV



3DH5\_Ant1\_Low\_2402\_Peak



### 3DH5\_Ant1\_High\_2480\_AV



### 3DH5\_Ant1\_High\_2480\_Peak

