



## Appendix A: 20dB Emission Bandwidth

### Test Result

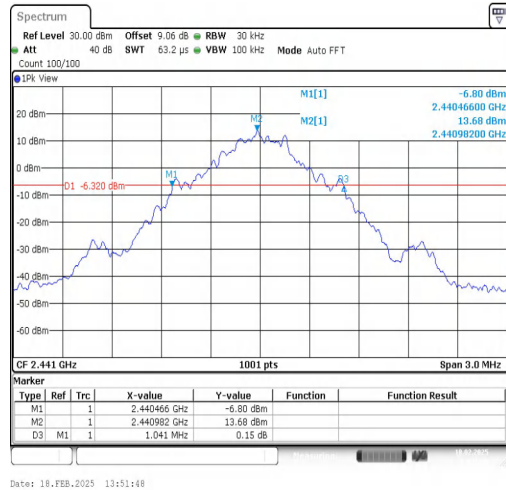
| Test Mode | Antenna | Freq(MHz) | 20dB EBW[MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|-----------|---------|-----------|---------------|---------|---------|------------|---------|
| DH5       | Ant1    | 2402      | 1.04          | 2401.47 | 2402.51 | ---        | ---     |
| DH5       | Ant1    | 2441      | 1.04          | 2440.47 | 2441.51 | ---        | ---     |
| DH5       | Ant1    | 2480      | 1.04          | 2479.47 | 2480.51 | ---        | ---     |
| 2DH5      | Ant1    | 2402      | 1.29          | 2401.36 | 2402.64 | ---        | ---     |
| 2DH5      | Ant1    | 2441      | 1.29          | 2440.36 | 2441.64 | ---        | ---     |
| 2DH5      | Ant1    | 2480      | 1.29          | 2479.36 | 2480.64 | ---        | ---     |
| 3DH5      | Ant1    | 2402      | 1.28          | 2401.35 | 2402.62 | ---        | ---     |
| 3DH5      | Ant1    | 2441      | 1.28          | 2440.35 | 2441.63 | ---        | ---     |
| 3DH5      | Ant1    | 2480      | 1.28          | 2479.34 | 2480.63 | ---        | ---     |



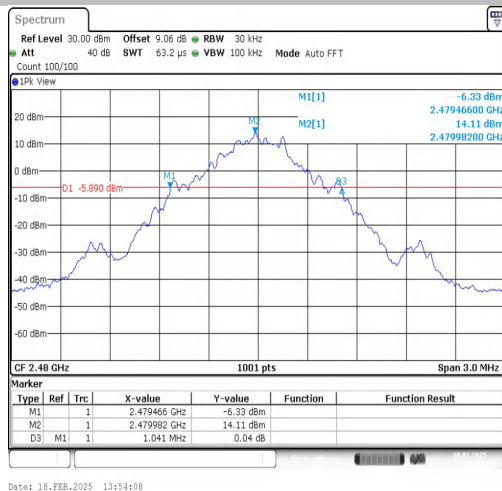
## Test Graphs



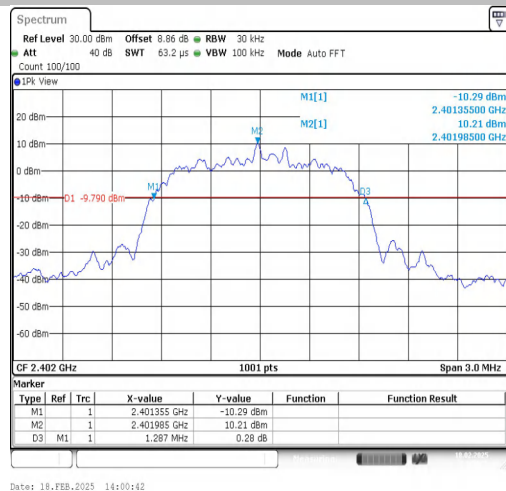
DH5-Ant1-2402



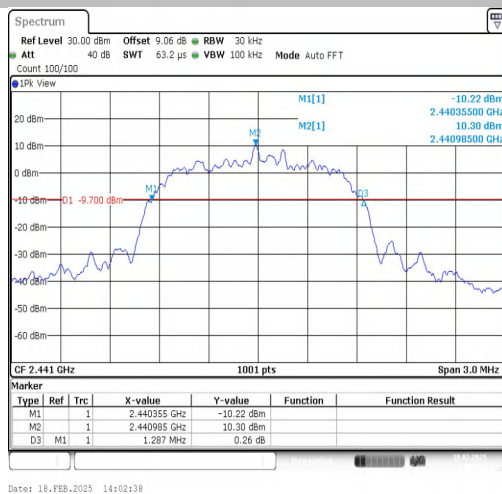
DH5-Ant1-2441



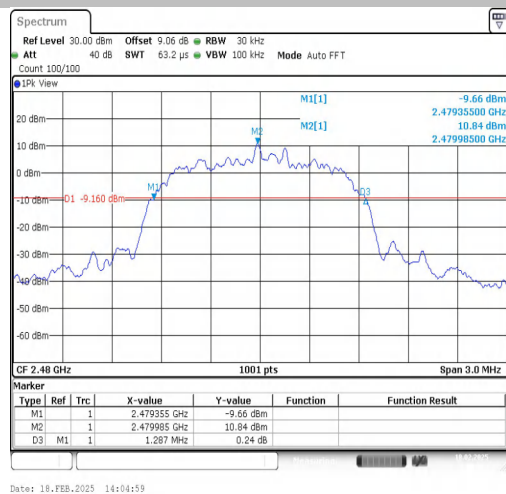
DH5-Ant1-2480



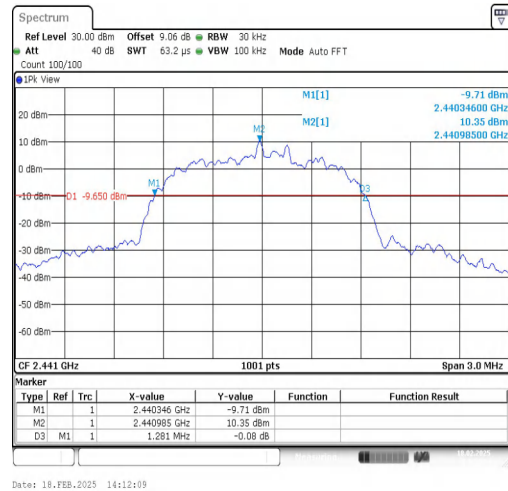
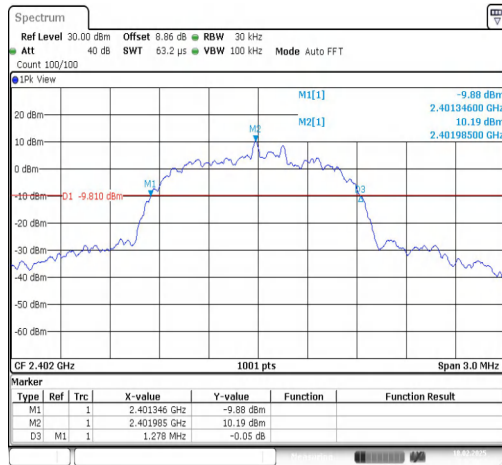
2DH5-Ant1-2402



2DH5-Ant1-2441

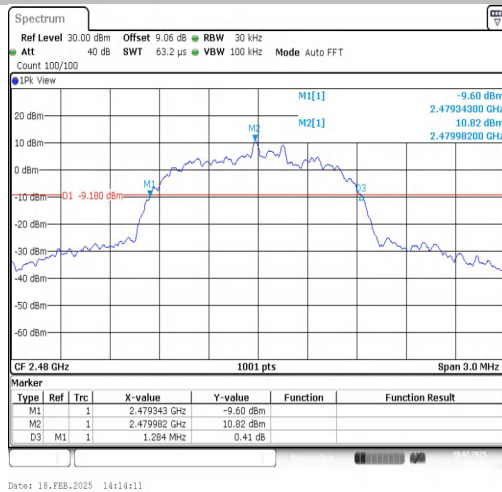


2DH5-Ant1-2480



3DH5-Ant1-2402

3DH5-Ant1-2441



3DH5-Ant1-2480



## Appendix B: Occupied Channel Bandwidth

### Test Result

| Test Mode | Antenna | Freq(MHz) | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|-----------|---------|-----------|-----------|-----------|-----------|------------|---------|
| DH5       | Ant1    | 2402      | 0.944     | 2401.5145 | 2402.4585 | ---        | ---     |
| DH5       | Ant1    | 2441      | 0.95      | 2440.5115 | 2441.4615 | ---        | ---     |
| DH5       | Ant1    | 2480      | 0.947     | 2479.5145 | 2480.4615 | ---        | ---     |
| 2DH5      | Ant1    | 2402      | 1.178     | 2401.3976 | 2402.5754 | ---        | ---     |
| 2DH5      | Ant1    | 2441      | 1.178     | 2440.3976 | 2441.5754 | ---        | ---     |
| 2DH5      | Ant1    | 2480      | 1.178     | 2479.3976 | 2480.5754 | ---        | ---     |
| 3DH5      | Ant1    | 2402      | 1.181     | 2401.3976 | 2402.5784 | ---        | ---     |
| 3DH5      | Ant1    | 2441      | 1.181     | 2440.3976 | 2441.5784 | ---        | ---     |
| 3DH5      | Ant1    | 2480      | 1.181     | 2479.3976 | 2480.5784 | ---        | ---     |

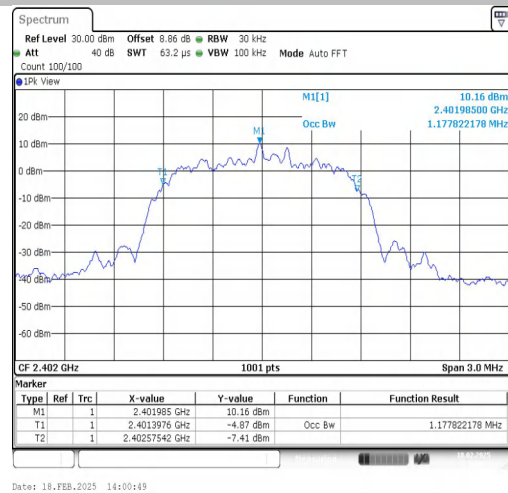
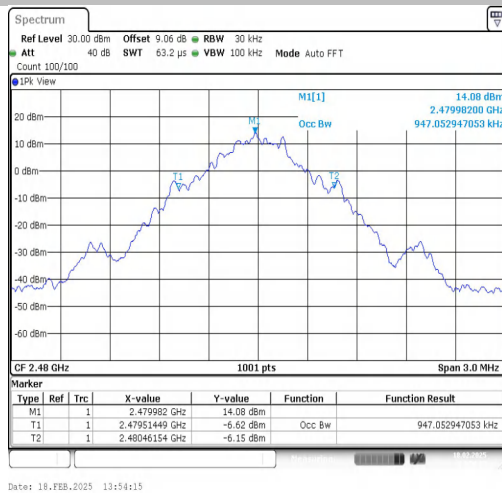


## Test Graphs



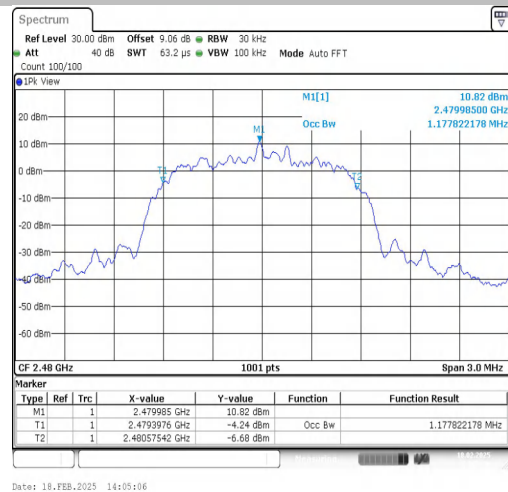
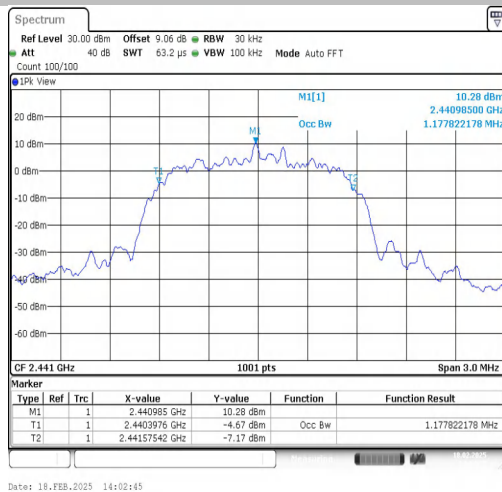
DH5-Ant1-2402

DH5-Ant1-2441



DH5-Ant1-2480

2DH5-Ant1-2402



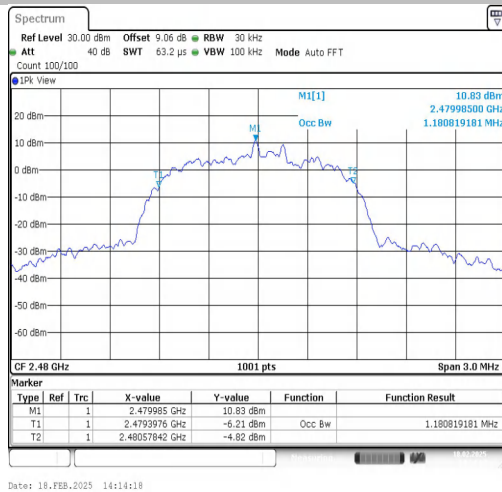
2DH5-Ant1-2441

2DH5-Ant1-2480



3DH5-Ant1-2402

3DH5-Ant1-2441



3DH5-Ant1-2480



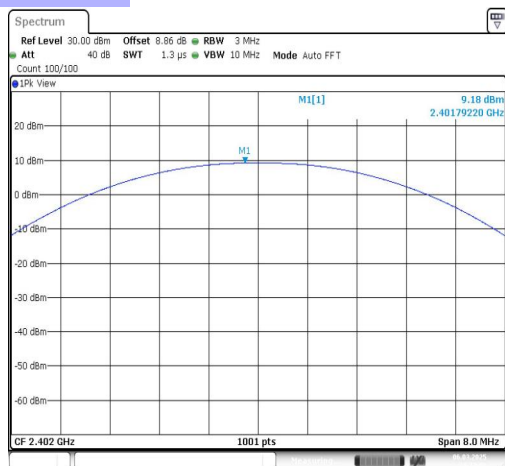
## Appendix C: Maximum conducted output power

### Test Result Peak

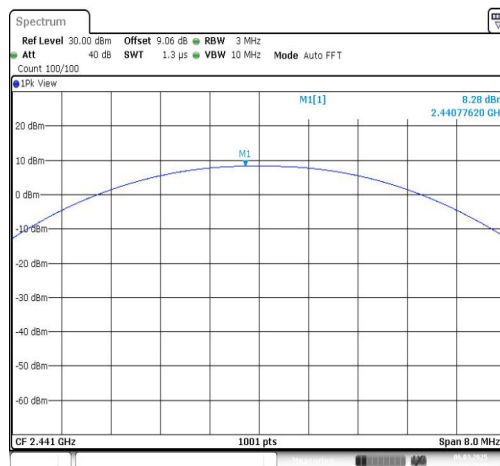
| Test Mode | Antenna | Frequency<br>[MHz] | Peak<br>Power<br>[dBm] | Peak<br>Power Limit<br>[dBm] | Gain<br>[dBi] | EIRP<br>[dBm] | EIRP<br>Limit<br>[dBm] | Verdict |
|-----------|---------|--------------------|------------------------|------------------------------|---------------|---------------|------------------------|---------|
| DH5       | Ant1    | 2402               | 9.18                   | ≤20.97                       | -1.99         | 7.19          | ≤36                    | PASS    |
| DH5       | Ant1    | 2441               | 8.28                   | ≤20.97                       | -1.99         | 6.29          | ≤36                    | PASS    |
| DH5       | Ant1    | 2480               | 7.60                   | ≤20.97                       | -1.99         | 5.61          | ≤36                    | PASS    |
| 2DH5      | Ant1    | 2402               | 9.61                   | ≤20.97                       | -1.99         | 7.62          | ≤36                    | PASS    |
| 2DH5      | Ant1    | 2441               | 8.54                   | ≤20.97                       | -1.99         | 6.55          | ≤36                    | PASS    |
| 2DH5      | Ant1    | 2480               | 8.00                   | ≤20.97                       | -1.99         | 6.01          | ≤36                    | PASS    |
| 3DH5      | Ant1    | 2402               | 9.85                   | ≤20.97                       | -1.99         | 7.86          | ≤36                    | PASS    |
| 3DH5      | Ant1    | 2441               | 9.03                   | ≤20.97                       | -1.99         | 7.04          | ≤36                    | PASS    |
| 3DH5      | Ant1    | 2480               | 8.43                   | ≤20.97                       | -1.99         | 6.44          | ≤36                    | PASS    |



## Test Graphs



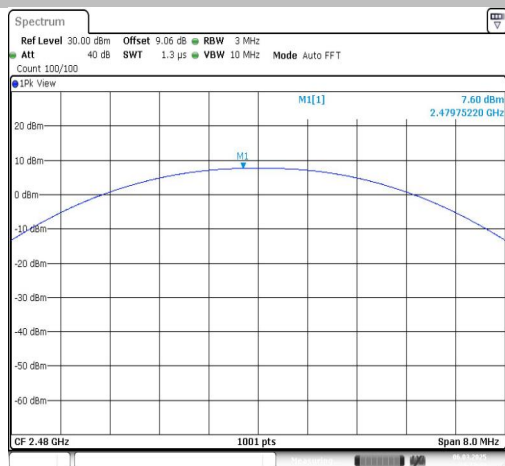
Date: 6.MAR.2025 20:12:52



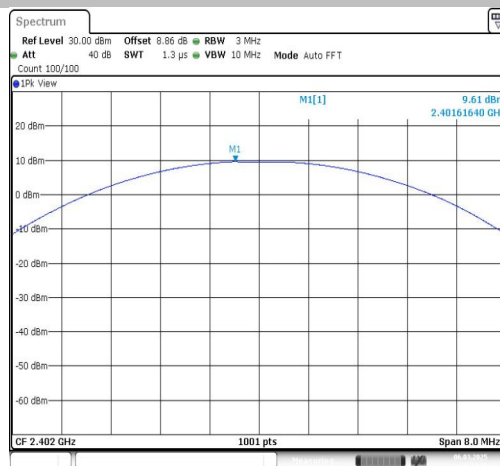
Date: 6.MAR.2025 20:13:19

DH5-Ant1-2402-PASS

DH5-Ant1-2441-PASS



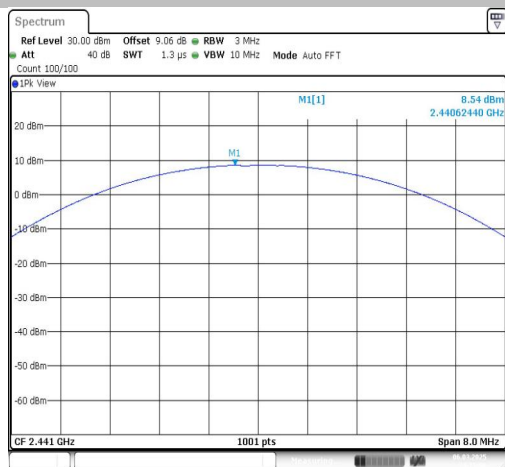
Date: 6.MAR.2025 20:13:44



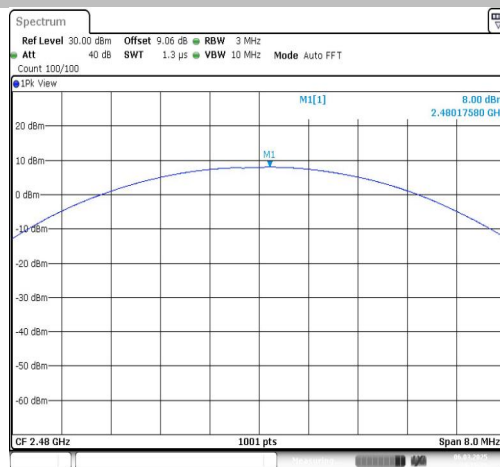
Date: 6.MAR.2025 20:14:16

DH5-Ant1-2480-PASS

2DH5-Ant1-2402-PASS



Date: 6.MAR.2025 20:15:00

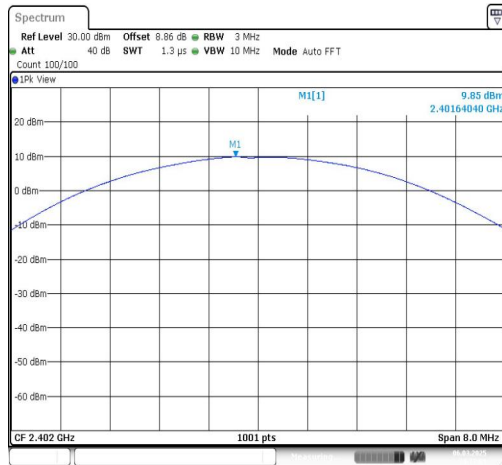


Date: 6.MAR.2025 20:15:30

2DH5-Ant1-2441-PASS

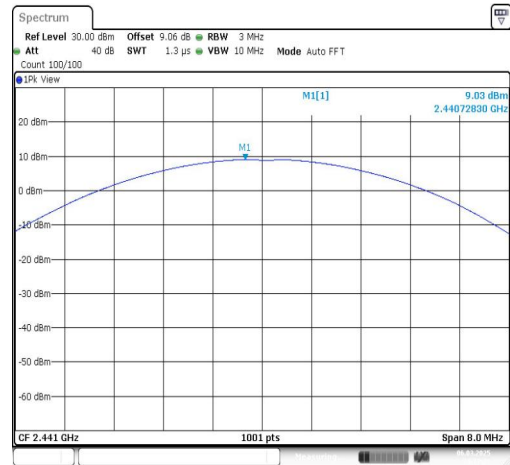
2DH5-Ant1-2480-PASS





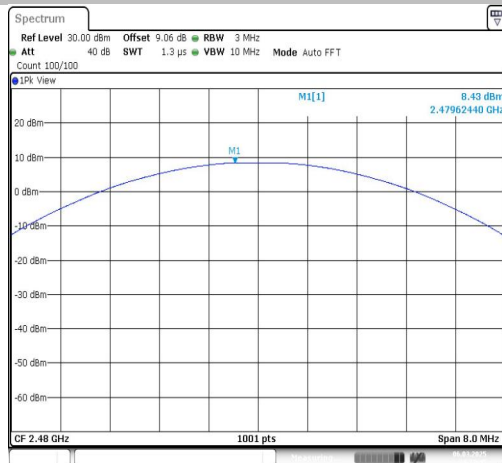
Date: 6.MAR.2025 20:17:01

3DH5-Ant1-2402-PASS



Date: 6.MAR.2025 20:17:23

3DH5-Ant1-2441-PASS



Date: 6.MAR.2025 20:17:45

3DH5-Ant1-2480-PASS



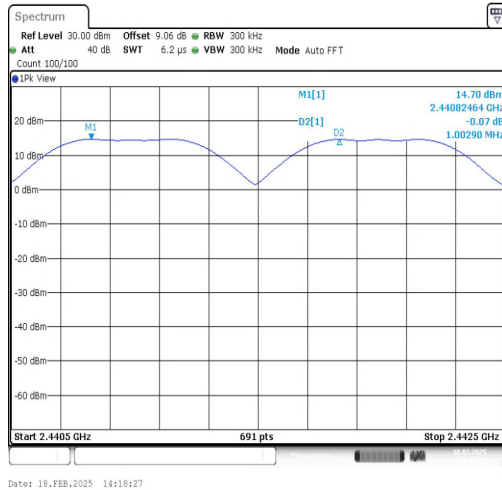
## Appendix D: Carrier frequency separation

### Test Result

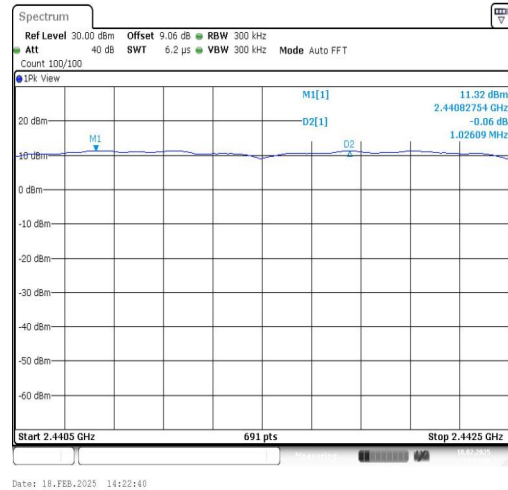
| Test Mode | Antenna | Freq(MHz) | Result[MHz] | Limit[MHz]   | Verdict |
|-----------|---------|-----------|-------------|--------------|---------|
| DH5       | Ant1    | Hop       | 1.003       | $\geq 0.693$ | PASS    |
| 2DH5      | Ant1    | Hop       | 1.026       | $\geq 0.860$ | PASS    |
| 3DH5      | Ant1    | Hop       | 1.157       | $\geq 0.853$ | PASS    |



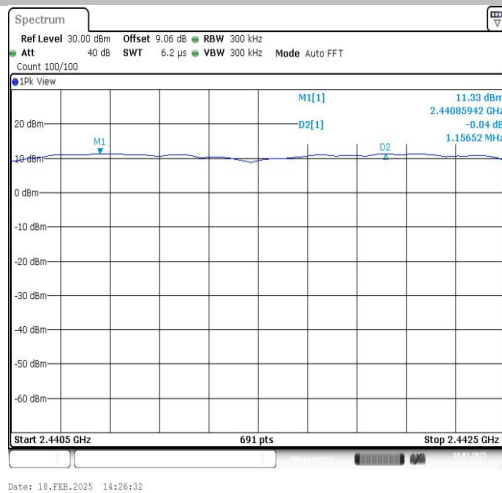
## Test Graphs



DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS



3DH5-Ant1-Hop-PASS



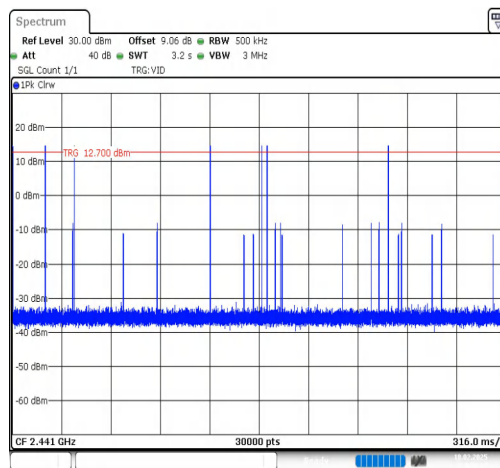
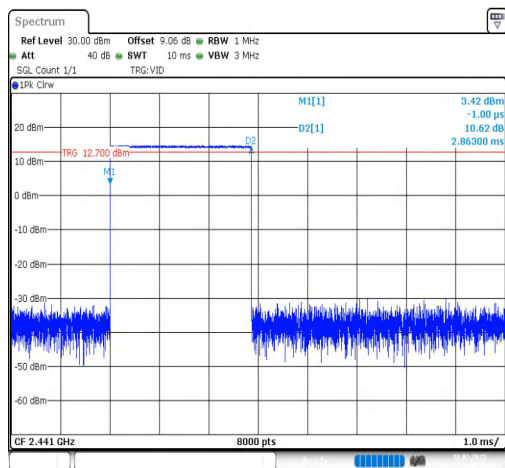
## Appendix E: Time of occupancy

### Test Result

| Test Mode | Antenna | Freq(MHz) | BurstWidth<br>[ms] | TotalHops<br>[Num] | Result[s] | Limit[s] | Verdict |
|-----------|---------|-----------|--------------------|--------------------|-----------|----------|---------|
| DH1       | Ant1    | Hop       | 2.863              | 70                 | 0.2       | ≤0.4     | PASS    |
| DH3       | Ant1    | Hop       | 2.864              | 60                 | 0.172     | ≤0.4     | PASS    |
| DH5       | Ant1    | Hop       | 2.864              | 50                 | 0.143     | ≤0.4     | PASS    |
| 2DH1      | Ant1    | Hop       | 2.869              | 60                 | 0.172     | ≤0.4     | PASS    |
| 2DH3      | Ant1    | Hop       | 2.869              | 90                 | 0.258     | ≤0.4     | PASS    |
| 2DH5      | Ant1    | Hop       | 2.869              | 90                 | 0.258     | ≤0.4     | PASS    |
| 3DH1      | Ant1    | Hop       | 2.870              | 110                | 0.316     | ≤0.4     | PASS    |
| 3DH3      | Ant1    | Hop       | 2.870              | 80                 | 0.23      | ≤0.4     | PASS    |
| 3DH5      | Ant1    | Hop       | 2.870              | 90                 | 0.258     | ≤0.4     | PASS    |

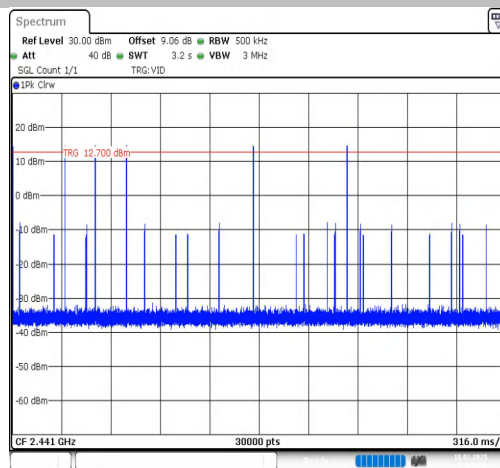
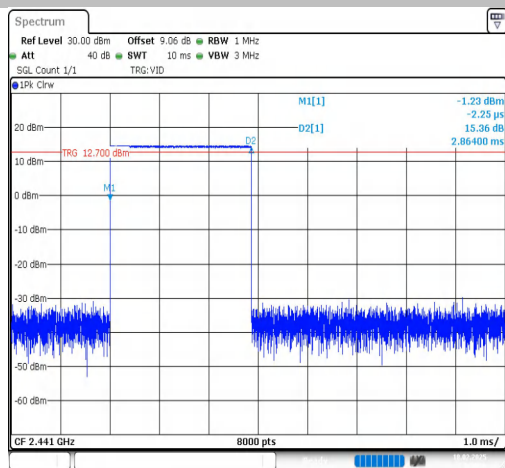


## Test Graphs



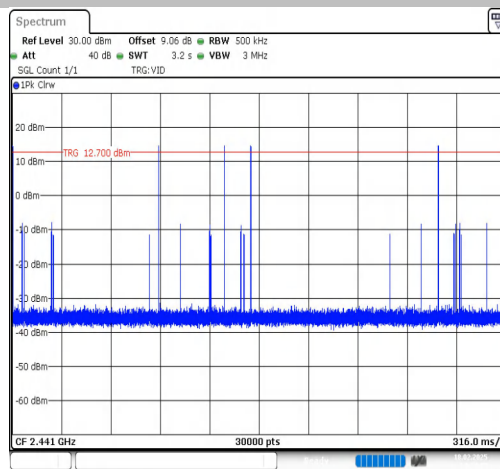
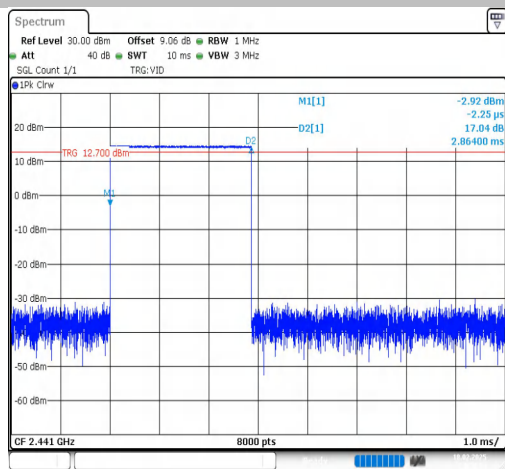
DH1-Ant1-Hop-PASS

DH1-Ant1-Hop-PASS



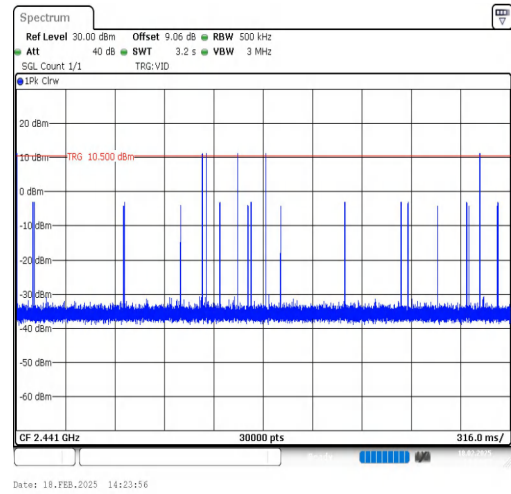
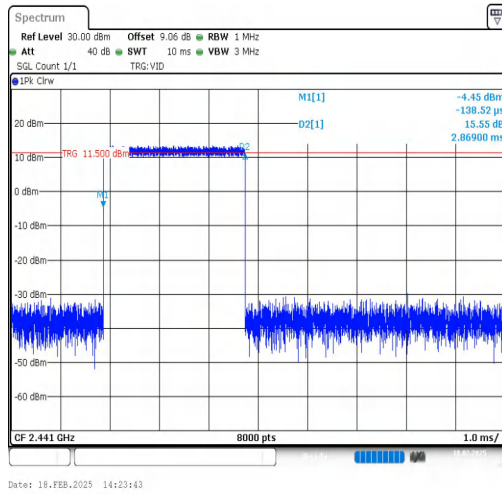
DH3-Ant1-Hop-PASS

DH3-Ant1-Hop-PASS



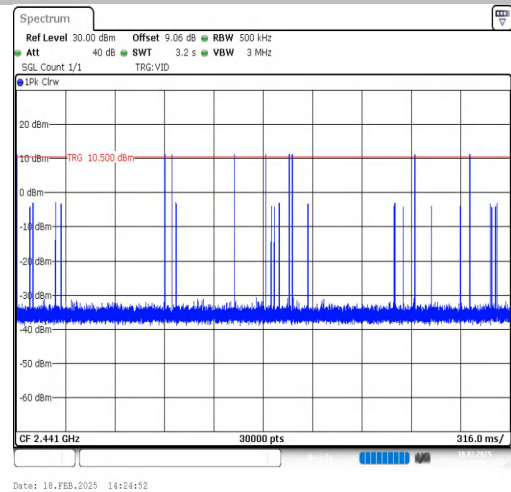
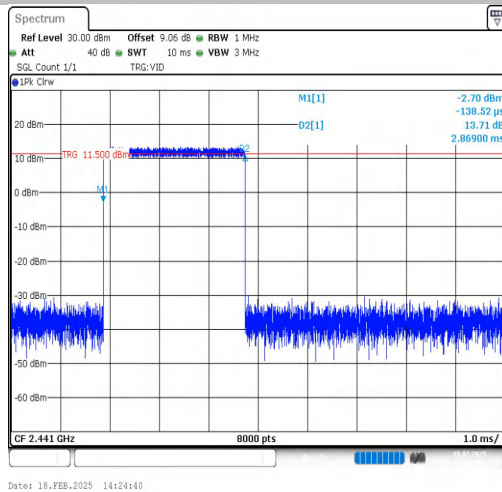
DH5-Ant1-Hop-PASS

DH5-Ant1-Hop-PASS



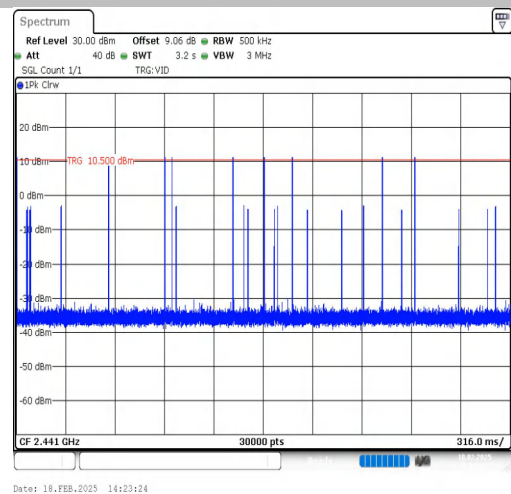
2DH1-Ant1-Hop-PASS

2DH1-Ant1-Hop-PASS



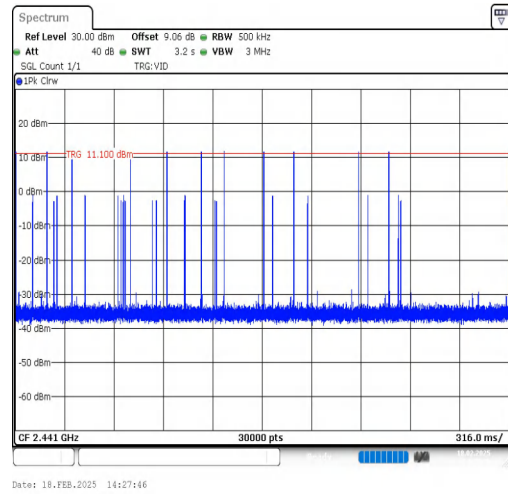
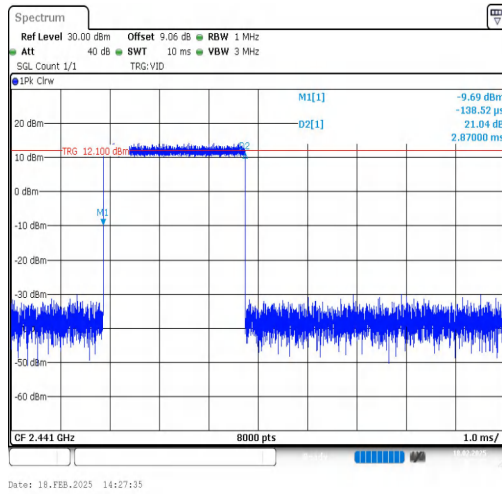
2DH3-Ant1-Hop-PASS

2DH3-Ant1-Hop-PASS



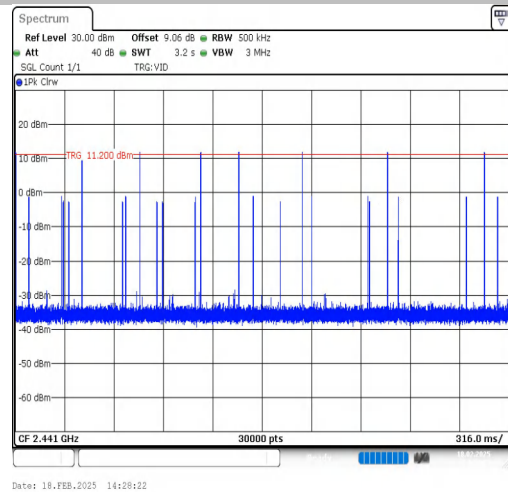
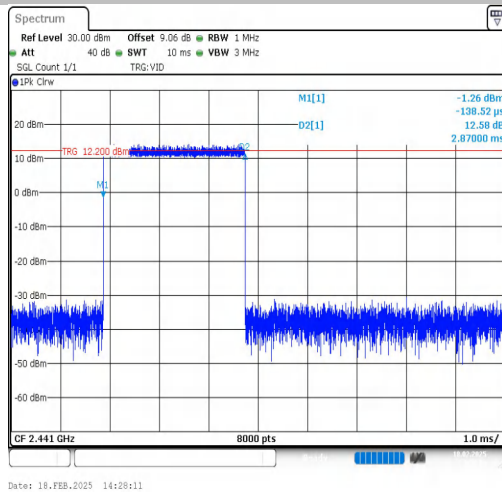
2DH5-Ant1-Hop-PASS

2DH5-Ant1-Hop-PASS



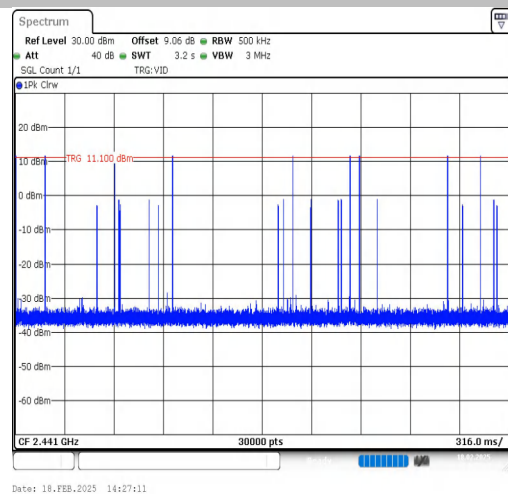
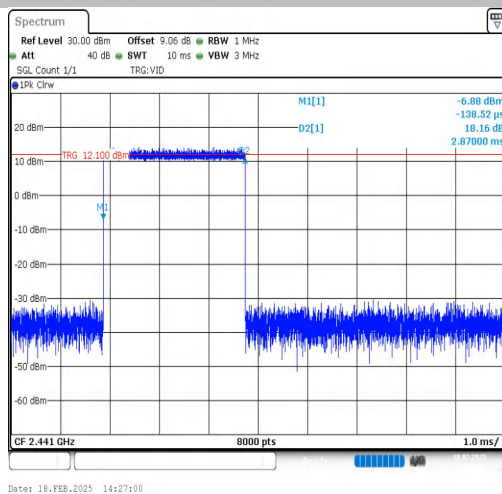
3DH1-Ant1-Hop-PASS

3DH1-Ant1-Hop-PASS



3DH3-Ant1-Hop-PASS

3DH3-Ant1-Hop-PASS



3DH5-Ant1-Hop-PASS

3DH5-Ant1-Hop-PASS



## Appendix F: Number of hopping channels

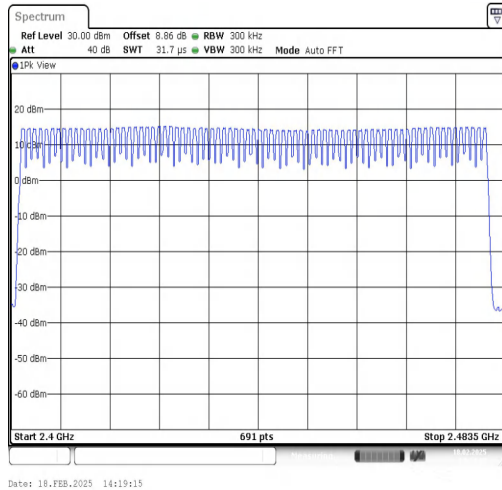
### Test Result

| Test Mode | Antenna | Freq(MHz) | Result[Num] | Limit[Num] | Verdict |
|-----------|---------|-----------|-------------|------------|---------|
| DH5       | Ant1    | Hop       | 79          | $\geq 15$  | PASS    |
| 2DH5      | Ant1    | Hop       | 79          | $\geq 15$  | PASS    |
| 3DH5      | Ant1    | Hop       | 79          | $\geq 15$  | PASS    |

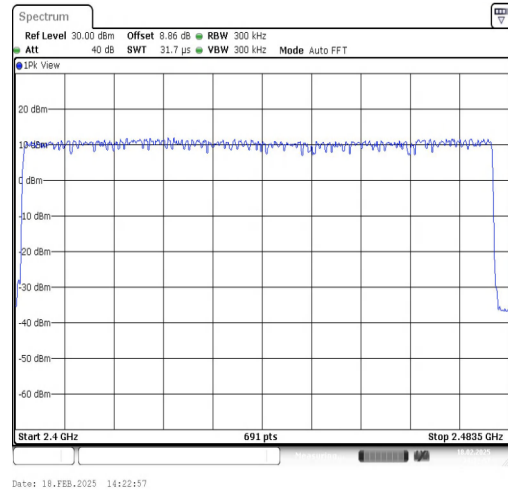




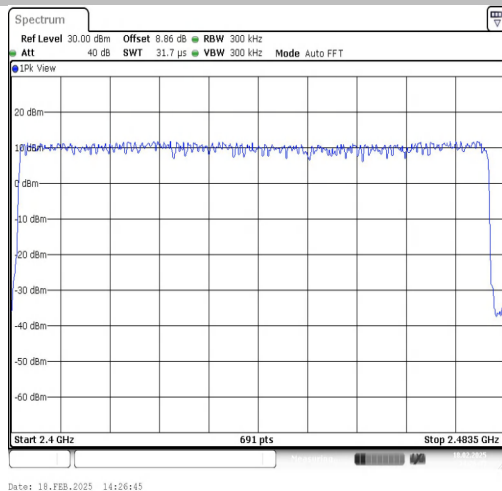
## Test Graphs



DH5-Ant1-Hop-PASS



2DH5-Ant1-Hop-PASS



3DH5-Ant1-Hop-PASS



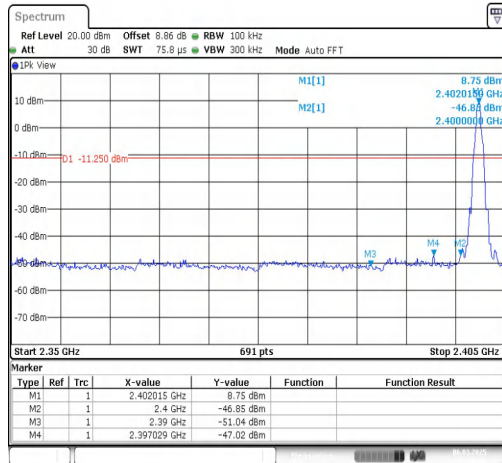
## Appendix G: Band edge measurements

### Test Result

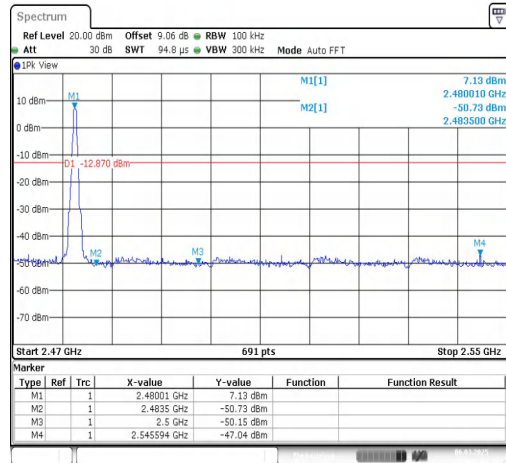
| Test Mode | Antenna | ChName | Freq(MHz) | Ref Level [dBm] | Result [dBm] | Limit [dBm]   | Verdict |
|-----------|---------|--------|-----------|-----------------|--------------|---------------|---------|
| DH5       | Ant1    | Low    | 2402      | 8.75            | -47.02       | $\leq -11.25$ | PASS    |
| DH5       | Ant1    | High   | 2480      | 7.13            | -47.04       | $\leq -12.87$ | PASS    |
| DH5       | Ant1    | Low    | Hop_2402  | 14.10           | -47.53       | $\leq -5.9$   | PASS    |
| DH5       | Ant1    | High   | Hop_2480  | 11.23           | -47.02       | $\leq -8.77$  | PASS    |
| 2DH5      | Ant1    | Low    | 2402      | 5.87            | -45.62       | $\leq -14.13$ | PASS    |
| 2DH5      | Ant1    | High   | 2480      | 3.90            | -46.64       | $\leq -16.1$  | PASS    |
| 2DH5      | Ant1    | Low    | Hop_2402  | 10.14           | -47.97       | $\leq -9.86$  | PASS    |
| 2DH5      | Ant1    | High   | Hop_2480  | 10.46           | -46.82       | $\leq -9.54$  | PASS    |
| 3DH5      | Ant1    | Low    | 2402      | 5.71            | -44.87       | $\leq -14.29$ | PASS    |
| 3DH5      | Ant1    | High   | 2480      | 3.90            | -46.86       | $\leq -16.1$  | PASS    |
| 3DH5      | Ant1    | Low    | Hop_2402  | 10.59           | -44.16       | $\leq -9.41$  | PASS    |
| 3DH5      | Ant1    | High   | Hop_2480  | 11.23           | -46.78       | $\leq -8.77$  | PASS    |



## Test Graphs



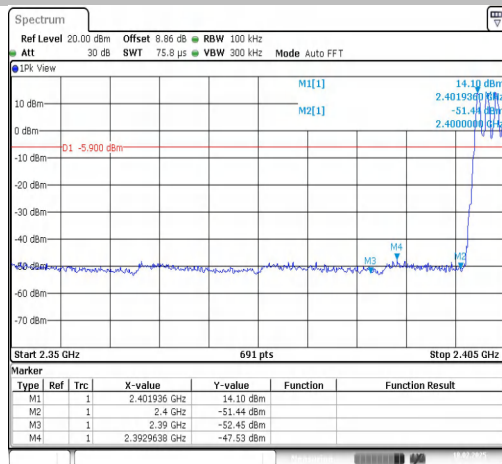
Date: 6.MAR.2025 20:12:36



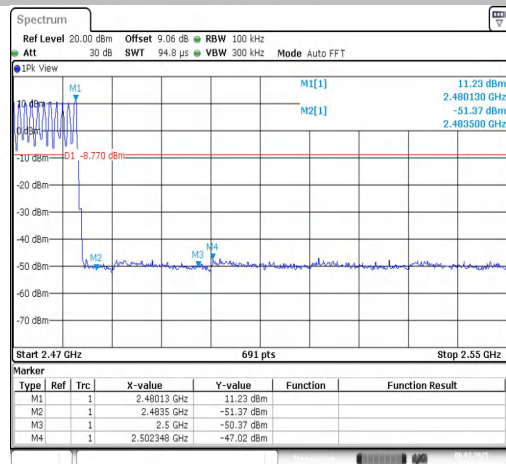
Date: 6.MAR.2025 20:31:31

DH5-Ant1-2402-PASS

DH5-Ant1-2480-PASS



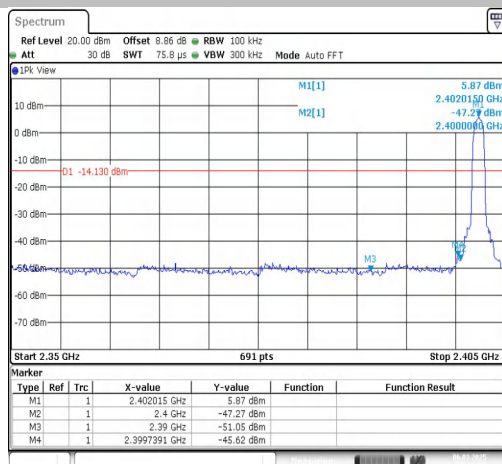
Date: 19.FEB.2025 14:17:52



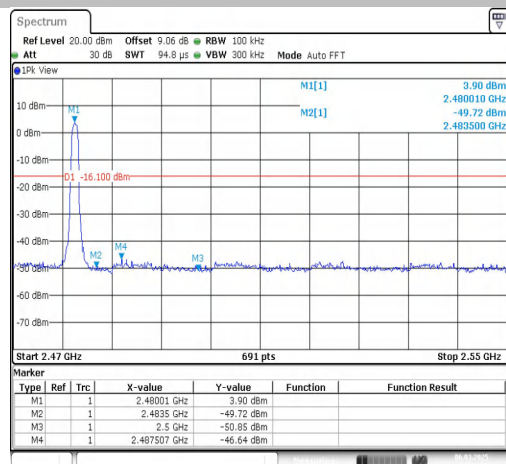
Date: 6.MAR.2025 20:41:55

DH5-Ant1-Hop\_2402-PASS

DH5-Ant1-Hop\_2480-PASS



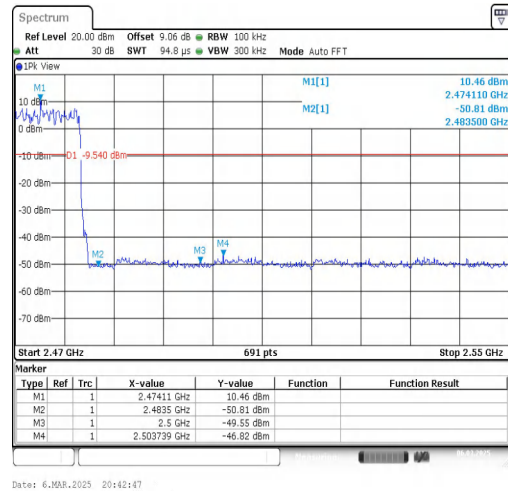
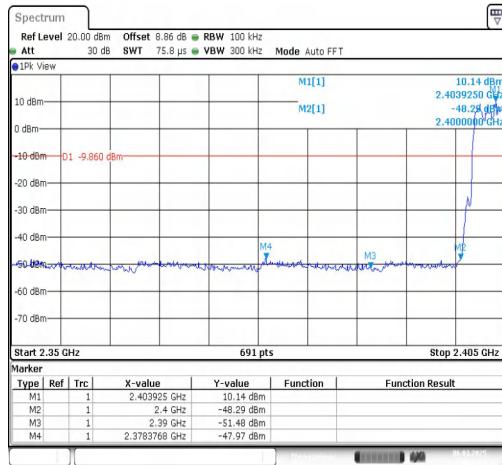
Date: 6.MAR.2025 20:32:55



Date: 6.MAR.2025 20:36:11

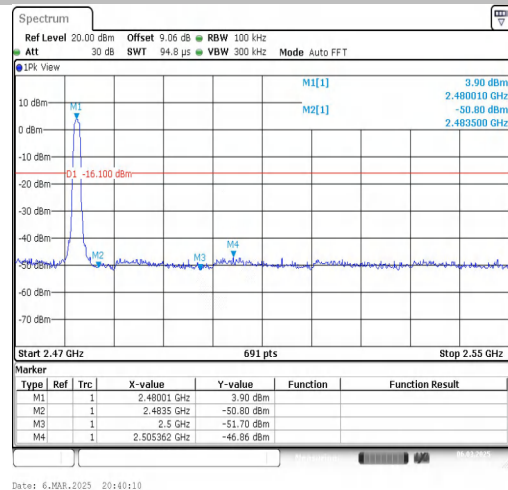
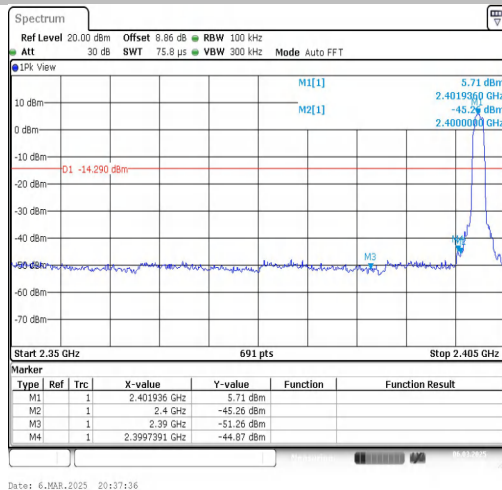
2DH5-Ant1-2402-PASS

2DH5-Ant1-2480-PASS



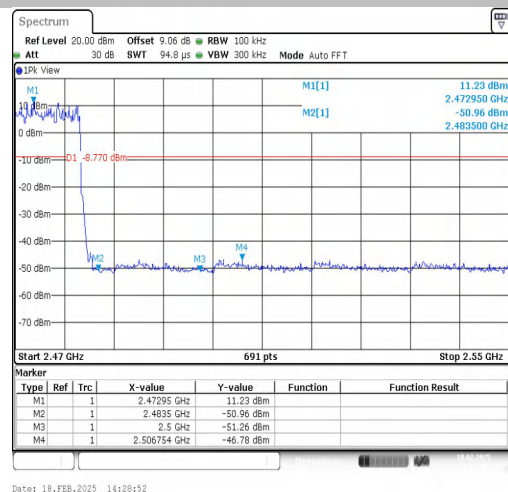
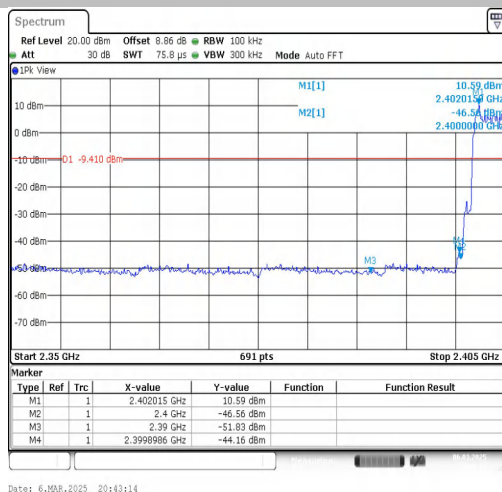
2DH5-Ant1-Hop\_2402-PASS

2DH5-Ant1-Hop\_2480-PASS



3DH5-Ant1-2402-PASS

3DH5-Ant1-2480-PASS



3DH5-Ant1-Hop\_2402-PASS

3DH5-Ant1-Hop\_2480-PASS



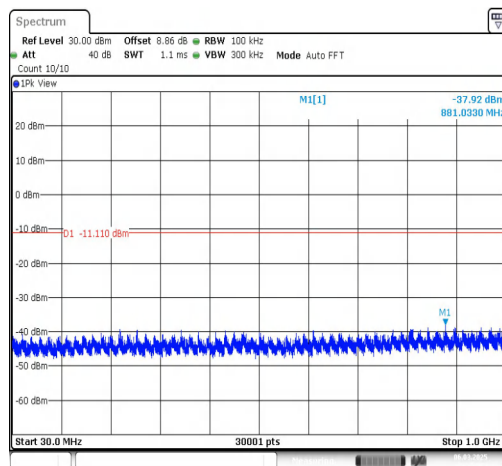
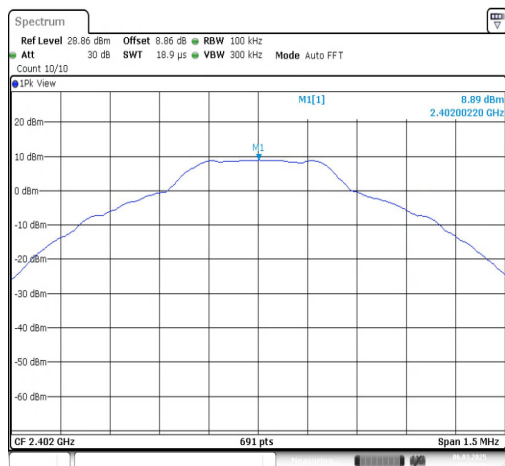
## Appendix H: Conducted Spurious Emission

### Test Result

| Test Mode | Antenna | Freq(MHz) | Freq Range [MHz] | Ref Level [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|-----------|------------------|-----------------|--------------|-------------|---------|
| DH5       | Ant1    | 2402      | 0~Reference      | 8.89            | 8.89         | ---         | PASS    |
| DH5       | Ant1    | 2402      | 30~1000          | 8.89            | -37.92       | ≤-11.11     | PASS    |
| DH5       | Ant1    | 2402      | 1000~26500       | 8.89            | -27.5        | ≤-11.11     | PASS    |
| DH5       | Ant1    | 2441      | 0~Reference      | 7.88            | 7.88         | ---         | PASS    |
| DH5       | Ant1    | 2441      | 30~1000          | 7.88            | -38.5        | ≤-12.12     | PASS    |
| DH5       | Ant1    | 2441      | 1000~26500       | 7.88            | -27.59       | ≤-12.12     | PASS    |
| DH5       | Ant1    | 2480      | 0~Reference      | 7.07            | 7.07         | ---         | PASS    |
| DH5       | Ant1    | 2480      | 30~1000          | 7.07            | -38.47       | ≤-12.93     | PASS    |
| DH5       | Ant1    | 2480      | 1000~26500       | 7.07            | -27.24       | ≤-12.93     | PASS    |
| 2DH5      | Ant1    | 2402      | 0~Reference      | 6.01            | 6.01         | ---         | PASS    |
| 2DH5      | Ant1    | 2402      | 30~1000          | 6.01            | -37.71       | ≤-13.99     | PASS    |
| 2DH5      | Ant1    | 2402      | 1000~26500       | 6.01            | -27.56       | ≤-13.99     | PASS    |
| 2DH5      | Ant1    | 2441      | 0~Reference      | 4.88            | 4.88         | ---         | PASS    |
| 2DH5      | Ant1    | 2441      | 30~1000          | 4.88            | -38.34       | ≤-15.12     | PASS    |
| 2DH5      | Ant1    | 2441      | 1000~26500       | 4.88            | -27.42       | ≤-15.12     | PASS    |
| 2DH5      | Ant1    | 2480      | 0~Reference      | 4.01            | 4.01         | ---         | PASS    |
| 2DH5      | Ant1    | 2480      | 30~1000          | 4.01            | -38.24       | ≤-15.99     | PASS    |
| 2DH5      | Ant1    | 2480      | 1000~26500       | 4.01            | -26.96       | ≤-15.99     | PASS    |
| 3DH5      | Ant1    | 2402      | 0~Reference      | 5.83            | 5.83         | ---         | PASS    |
| 3DH5      | Ant1    | 2402      | 30~1000          | 5.83            | -38.61       | ≤-14.17     | PASS    |
| 3DH5      | Ant1    | 2402      | 1000~26500       | 5.83            | -27.02       | ≤-14.17     | PASS    |
| 3DH5      | Ant1    | 2441      | 0~Reference      | 4.69            | 4.69         | ---         | PASS    |
| 3DH5      | Ant1    | 2441      | 30~1000          | 4.69            | -38.45       | ≤-15.31     | PASS    |
| 3DH5      | Ant1    | 2441      | 1000~26500       | 4.69            | -27.12       | ≤-15.31     | PASS    |
| 3DH5      | Ant1    | 2480      | 0~Reference      | 3.82            | 3.82         | ---         | PASS    |
| 3DH5      | Ant1    | 2480      | 30~1000          | 3.82            | -37.49       | ≤-16.18     | PASS    |
| 3DH5      | Ant1    | 2480      | 1000~26500       | 3.82            | -27.25       | ≤-16.18     | PASS    |

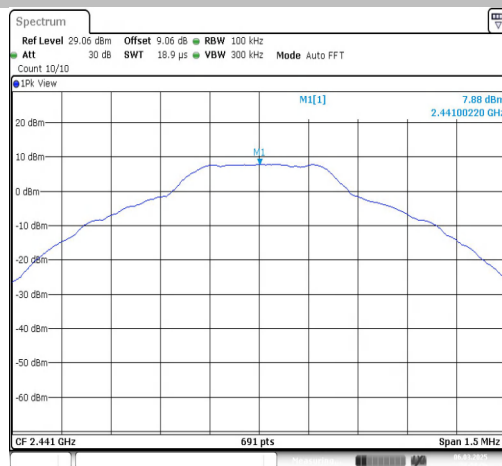
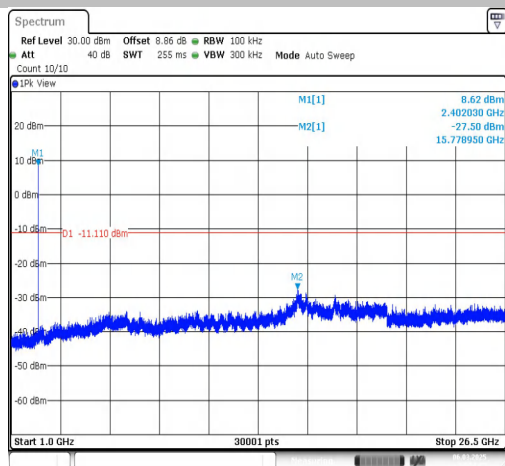


## Test Graphs



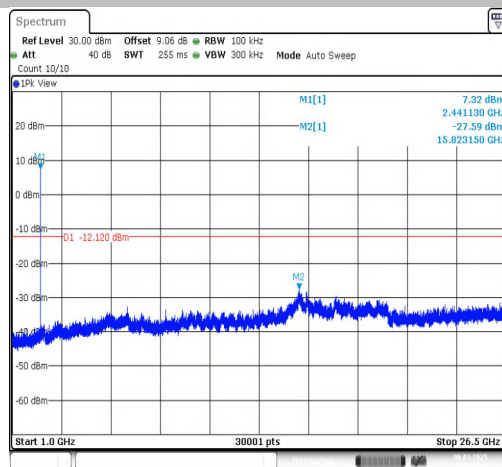
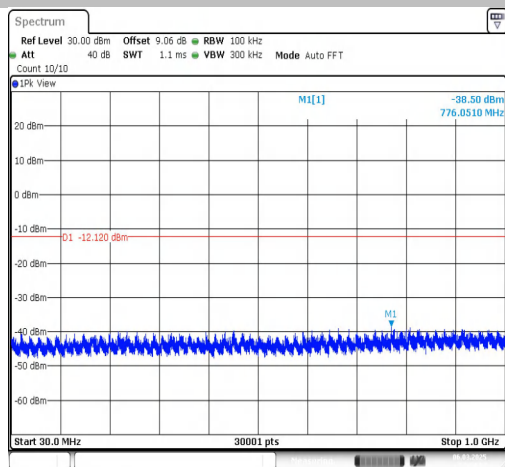
DH5-Ant1-2402-0~Reference-PASS

DH5-Ant1-2402-30~1000-PASS



DH5-Ant1-2402-1000~26500-PASS

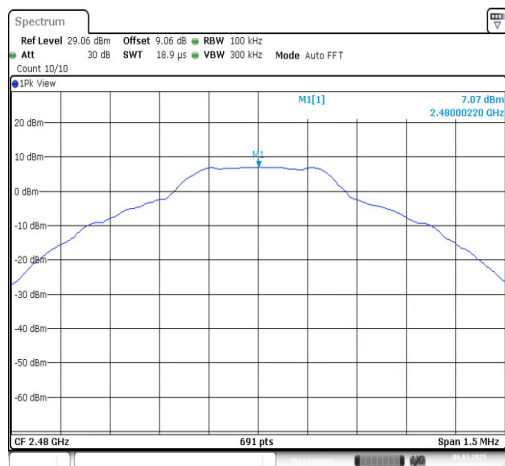
DH5-Ant1-2441-0~Reference-PASS



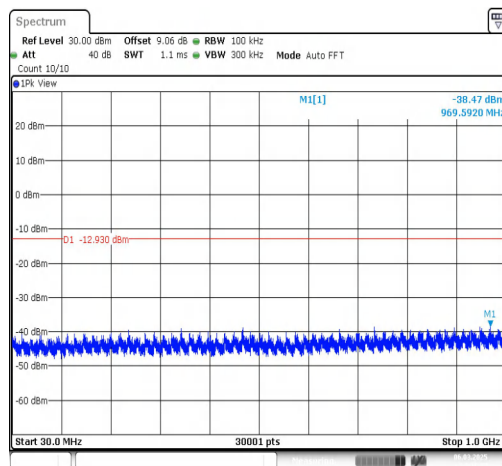
DH5-Ant1-2441-30~1000-PASS

DH5-Ant1-2441-1000~26500-PASS





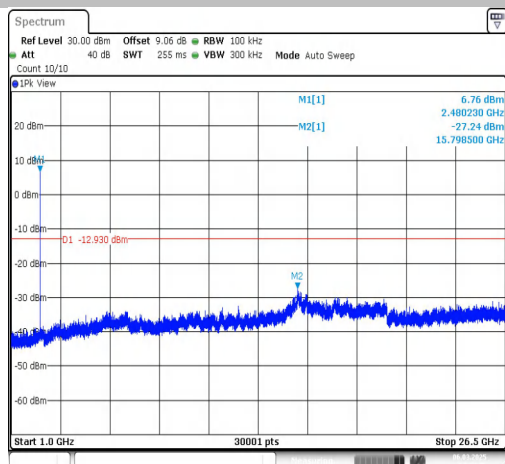
Date: 6.MAR.2025 20:31:39



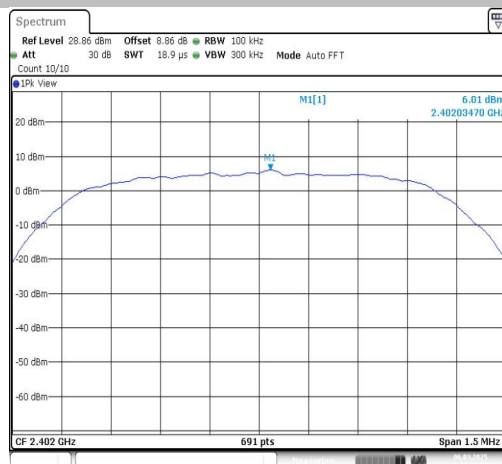
Date: 6.MAR.2025 20:31:51

## DH5-Ant1-2480-0~Reference-PASS

## DH5-Ant1-2480-30~1000-PASS



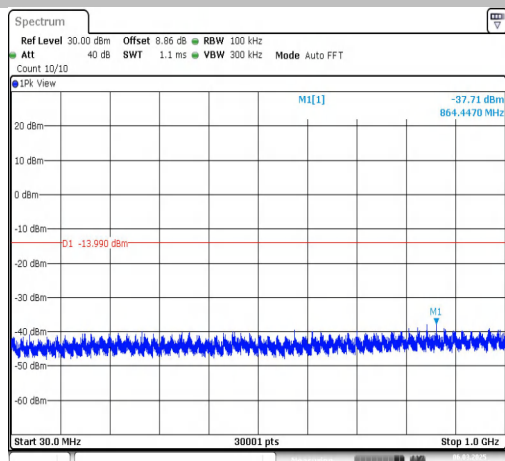
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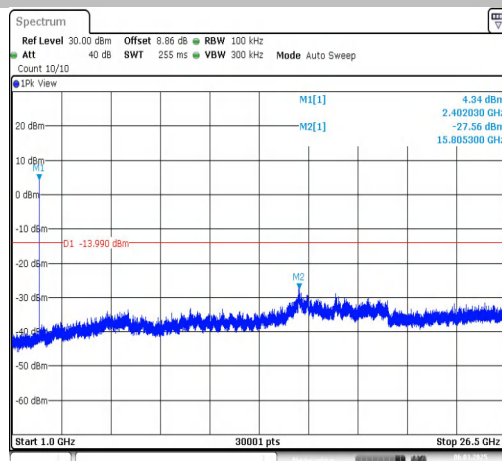
Date: 6.MAR.2025 20:33:03

## DH5-Ant1-2480-1000~26500-PASS

## 2DH5-Ant1-2402-0~Reference-PASS



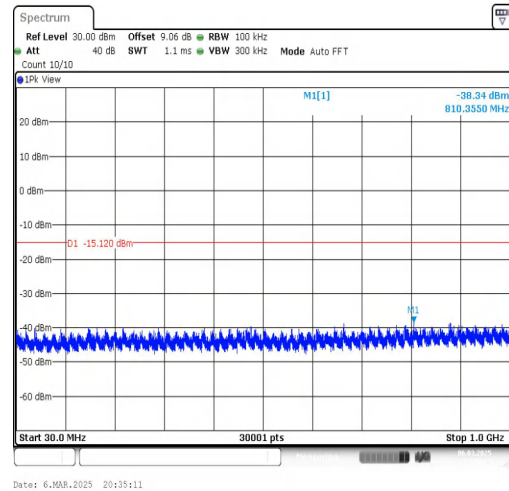
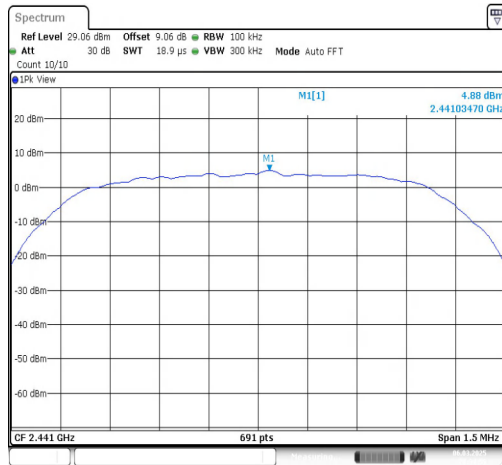
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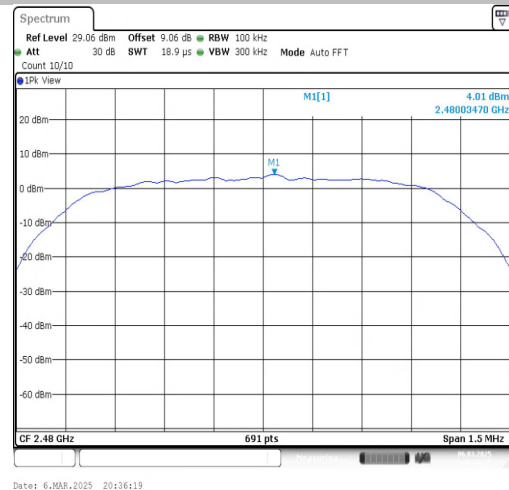
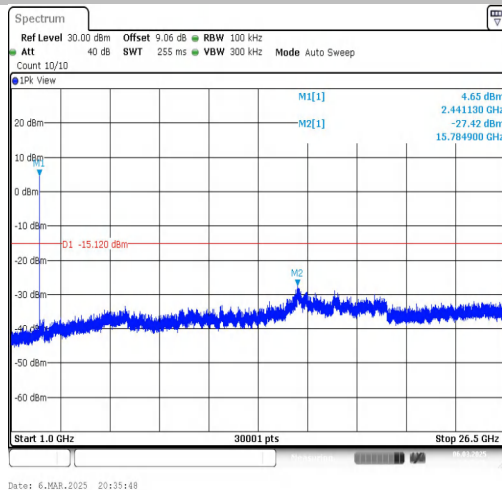
## 2DH5-Ant1-2402-30~1000-PASS

## 2DH5-Ant1-2402-1000~26500-PASS



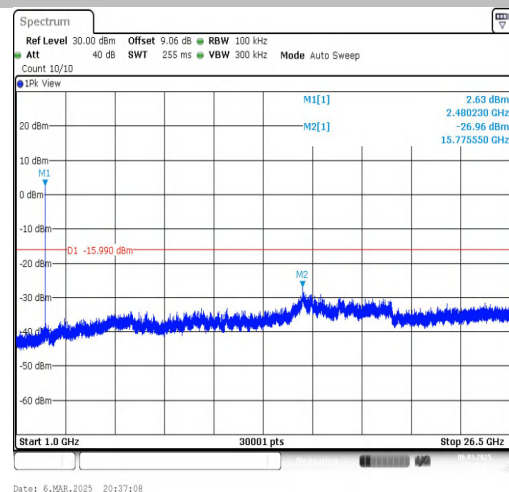
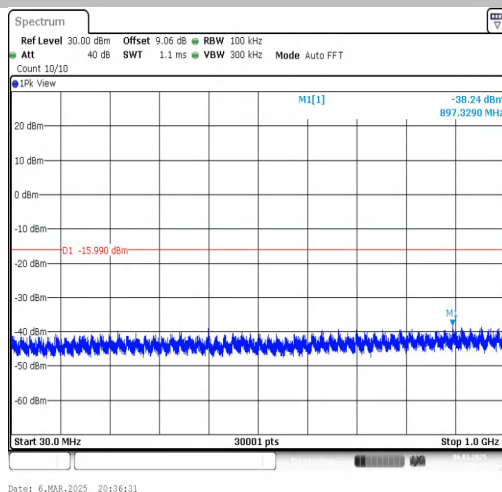
2DH5-Ant1-2441-0~Reference-PASS

2DH5-Ant1-2441-30~1000-PASS



2DH5-Ant1-2441-1000~26500-PASS

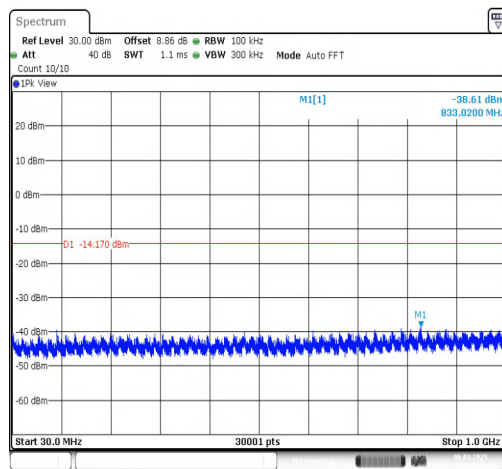
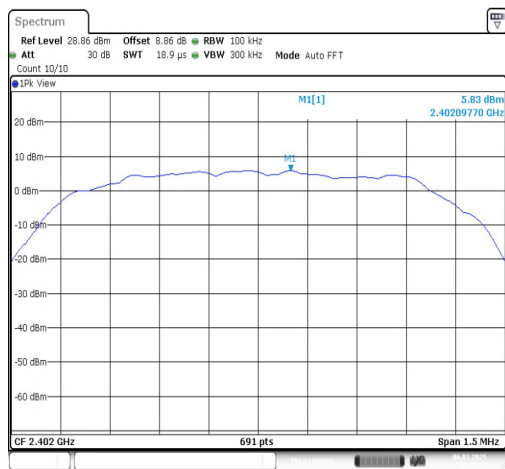
2DH5-Ant1-2480-0~Reference-PASS



2DH5-Ant1-2480-30~1000-PASS

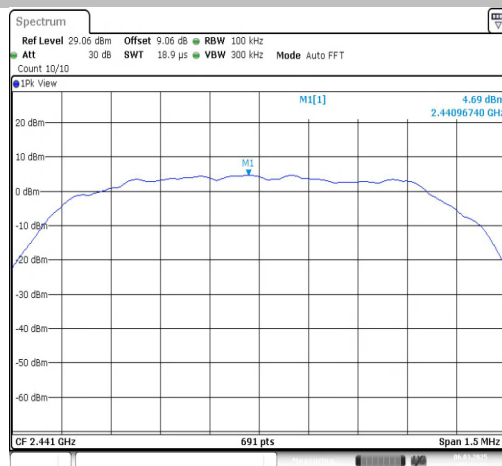
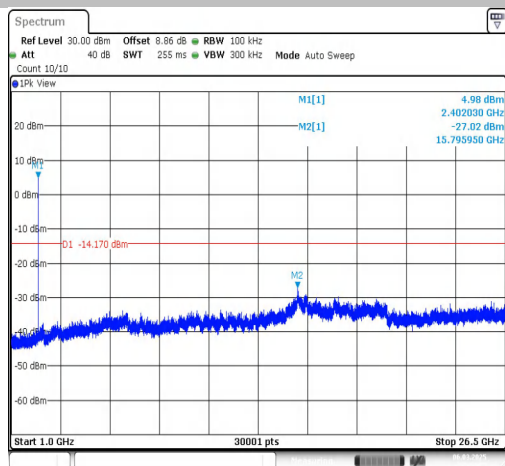
2DH5-Ant1-2480-1000~26500-PASS





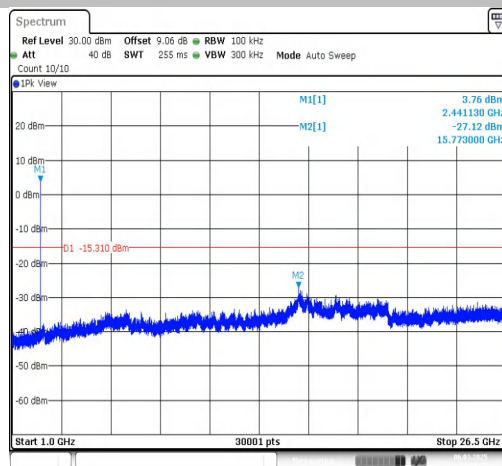
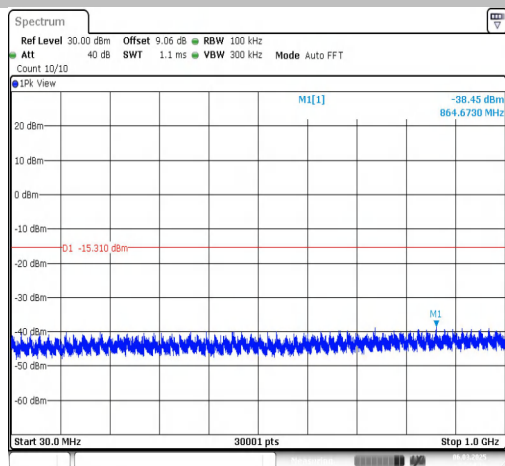
3DH5-Ant1-2402-0~Reference-PASS

3DH5-Ant1-2402-30~1000-PASS



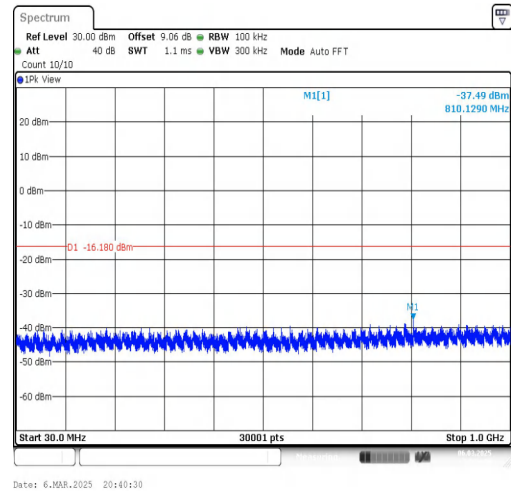
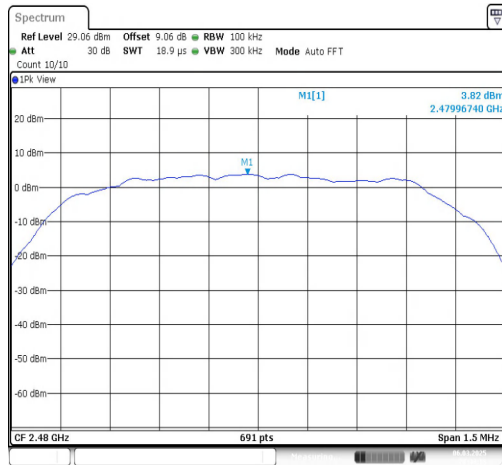
3DH5-Ant1-2402-1000~26500-PASS

3DH5-Ant1-2441-0~Reference-PASS



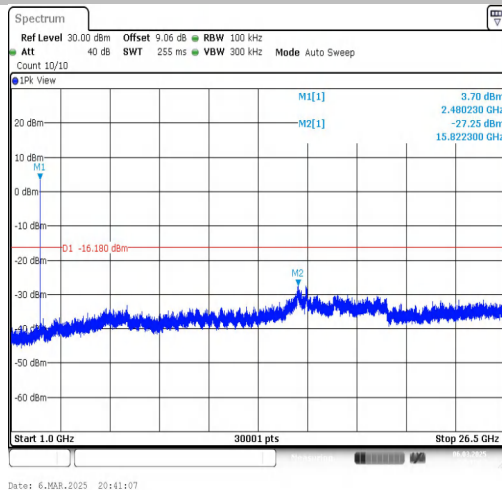
3DH5-Ant1-2441-30~1000-PASS

3DH5-Ant1-2441-1000~26500-PASS



3DH5-Ant1-2480-0~Reference-PASS

3DH5-Ant1-2480-30~1000-PASS



3DH5-Ant1-2480-1000~26500-PASS



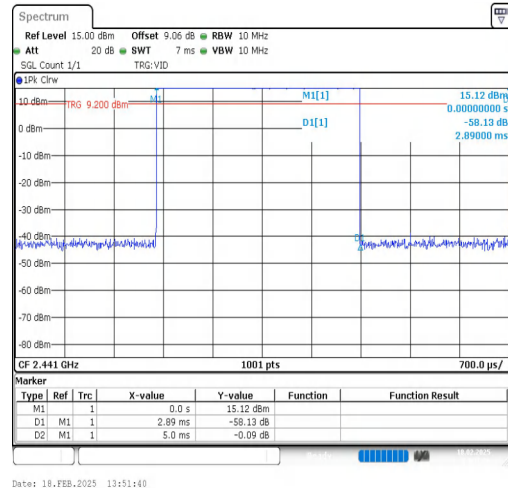
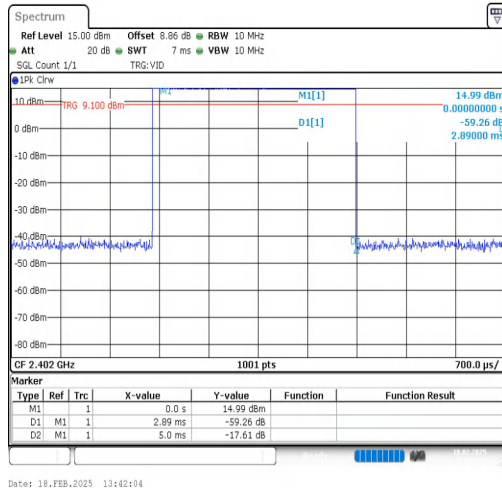
## Appendix I: Duty Cycle

### Test Result

| Test Mode | Antenna | Freq(MHz) | Transmission<br>Duration [ms] | Transmission<br>Period [ms] | Duty Cycle<br>[%] | DC Factor<br>(dB) |
|-----------|---------|-----------|-------------------------------|-----------------------------|-------------------|-------------------|
| DH5       | Ant1    | 2402      | 2.89                          | 5.00                        | 57.80             | 2.38              |
| DH5       | Ant1    | 2441      | 2.89                          | 5.00                        | 57.80             | 2.38              |
| DH5       | Ant1    | 2480      | 2.89                          | 5.00                        | 57.80             | 2.38              |
| 2DH5      | Ant1    | 2402      | 2.88                          | 5.01                        | 57.49             | 2.40              |
| 2DH5      | Ant1    | 2441      | 2.89                          | 5.00                        | 57.80             | 2.38              |
| 2DH5      | Ant1    | 2480      | 2.89                          | 5.01                        | 57.68             | 2.39              |
| 3DH5      | Ant1    | 2402      | 2.90                          | 5.00                        | 58.00             | 2.37              |
| 3DH5      | Ant1    | 2441      | 2.90                          | 5.01                        | 57.88             | 2.37              |
| 3DH5      | Ant1    | 2480      | 2.89                          | 5.00                        | 57.80             | 2.38              |

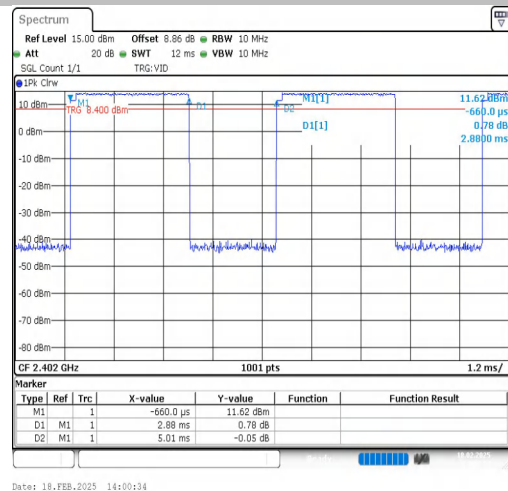
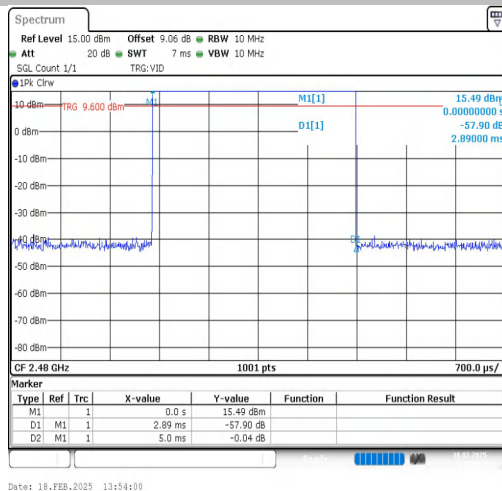


## Test Graphs



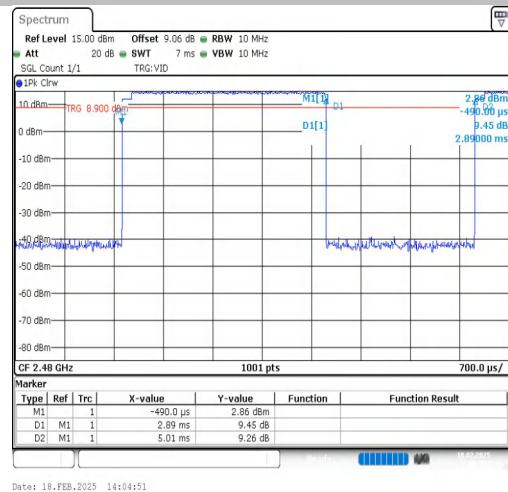
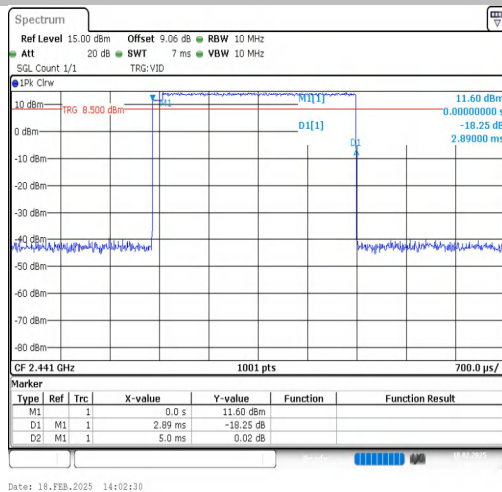
NTNV-DH5-Ant1-2402

NTNV-DH5-Ant1-2441



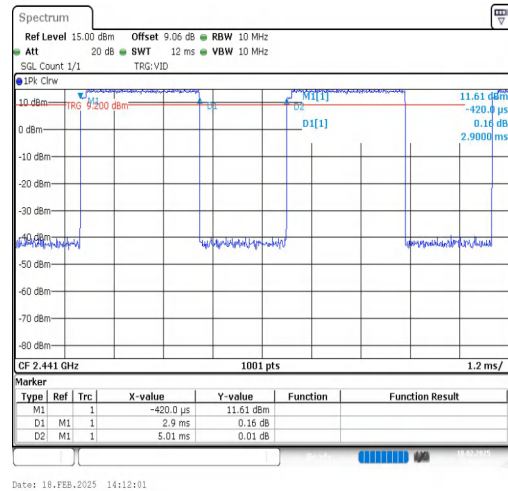
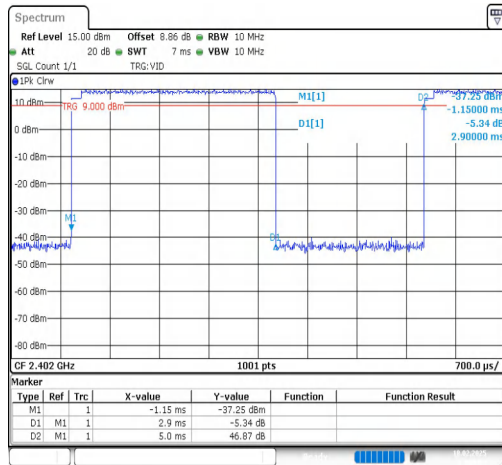
NTNV-DH5-Ant1-2480

NTNV-2DH5-Ant1-2402



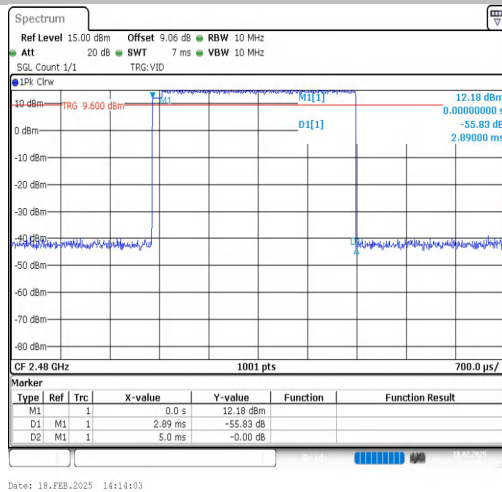
NTNV-2DH5-Ant1-2441

NTNV-2DH5-Ant1-2480



NTNV-3DH5-Ant1-2402

NTNV-3DH5-Ant1-2441



NTNV-3DH5-Ant1-2480

-----END-----