

## Appendix B: Duty Cycle Test Result

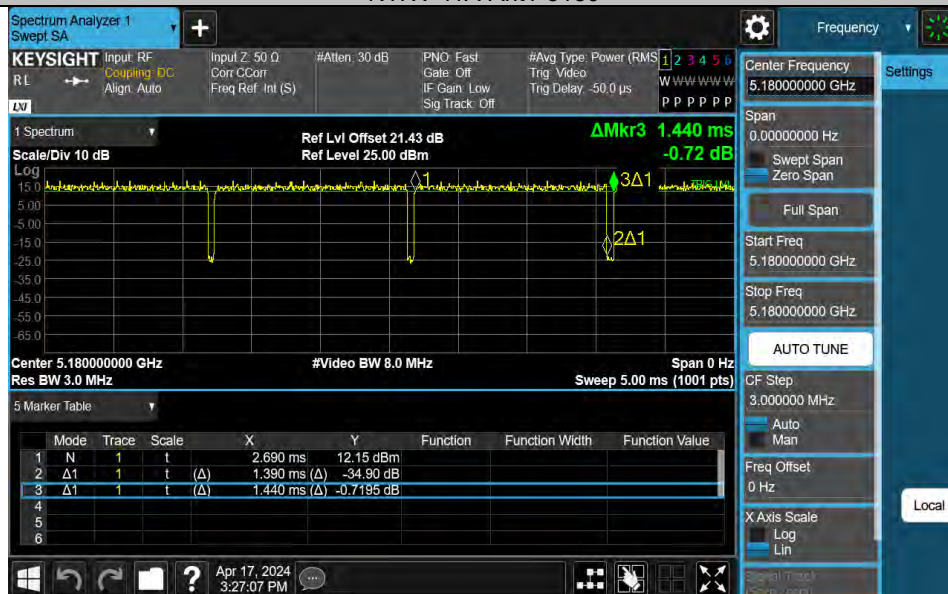
| Test Mode | Antenna | Frequency[MHz] | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] |
|-----------|---------|----------------|----------------------------|--------------------------|----------------|
| 11A       | Ant1    | 5180           | 1.39                       | 1.44                     | 96.53          |
| 11A       | Ant2    | 5180           | 1.39                       | 1.44                     | 96.53          |
| 11A       | Ant1    | 5200           | 1.39                       | 1.44                     | 96.53          |
| 11A       | Ant2    | 5200           | 1.39                       | 1.44                     | 96.53          |
| 11A       | Ant1    | 5240           | 1.39                       | 1.45                     | 95.86          |
| 11A       | Ant2    | 5240           | 1.40                       | 1.45                     | 96.55          |
| 11A       | Ant1    | 5260           | 1.39                       | 1.44                     | 96.53          |
| 11A       | Ant2    | 5260           | 1.39                       | 1.45                     | 95.86          |
| 11A       | Ant1    | 5300           | 1.39                       | 1.45                     | 95.86          |
| 11A       | Ant2    | 5300           | 1.39                       | 1.44                     | 96.53          |
| 11A       | Ant1    | 5320           | 1.39                       | 1.44                     | 96.53          |
| 11A       | Ant2    | 5320           | 1.39                       | 1.45                     | 95.86          |
| 11A       | Ant1    | 5500           | 1.39                       | 1.45                     | 95.86          |
| 11A       | Ant2    | 5500           | 1.39                       | 1.44                     | 96.53          |
| 11A       | Ant1    | 5580           | 1.39                       | 1.45                     | 95.86          |
| 11A       | Ant2    | 5580           | 1.39                       | 1.45                     | 95.86          |
| 11A       | Ant1    | 5700           | 1.39                       | 1.44                     | 96.53          |
| 11A       | Ant2    | 5700           | 1.39                       | 1.45                     | 95.86          |
| 11A       | Ant1    | 5745           | 1.39                       | 1.45                     | 95.86          |
| 11A       | Ant2    | 5745           | 1.39                       | 1.44                     | 96.53          |
| 11A       | Ant1    | 5785           | 1.39                       | 1.45                     | 95.86          |
| 11A       | Ant2    | 5785           | 1.39                       | 1.45                     | 95.86          |
| 11A       | Ant1    | 5825           | 1.39                       | 1.45                     | 95.86          |
| 11A       | Ant2    | 5825           | 1.39                       | 1.44                     | 96.53          |
| 11N20MIMO | Ant1    | 5180           | 1.30                       | 1.36                     | 95.59          |
| 11N20MIMO | Ant2    | 5180           | 1.30                       | 1.36                     | 95.59          |
| 11N20MIMO | Ant1    | 5200           | 1.30                       | 1.36                     | 95.59          |
| 11N20MIMO | Ant2    | 5200           | 1.30                       | 1.36                     | 95.59          |
| 11N20MIMO | Ant1    | 5240           | 1.30                       | 1.36                     | 95.59          |
| 11N20MIMO | Ant2    | 5240           | 1.30                       | 1.36                     | 95.59          |
| 11N20MIMO | Ant1    | 5260           | 1.30                       | 1.35                     | 96.30          |
| 11N20MIMO | Ant2    | 5260           | 1.30                       | 1.35                     | 96.30          |
| 11N20MIMO | Ant1    | 5300           | 1.30                       | 1.36                     | 95.59          |
| 11N20MIMO | Ant2    | 5300           | 1.30                       | 1.36                     | 95.59          |
| 11N20MIMO | Ant1    | 5320           | 1.30                       | 1.35                     | 96.30          |
| 11N20MIMO | Ant2    | 5320           | 1.30                       | 1.36                     | 95.59          |
| 11N20MIMO | Ant1    | 5500           | 1.30                       | 1.35                     | 96.30          |
| 11N20MIMO | Ant2    | 5500           | 1.30                       | 1.36                     | 95.59          |
| 11N20MIMO | Ant1    | 5580           | 1.30                       | 1.35                     | 96.30          |
| 11N20MIMO | Ant2    | 5580           | 1.30                       | 1.35                     | 96.30          |
| 11N20MIMO | Ant1    | 5700           | 1.30                       | 2.22                     | 58.56          |
| 11N20MIMO | Ant2    | 5700           | 1.30                       | 1.35                     | 96.30          |
| 11N20MIMO | Ant1    | 5745           | 1.30                       | 1.35                     | 96.30          |
| 11N20MIMO | Ant2    | 5745           | 1.30                       | 1.36                     | 95.59          |
| 11N20MIMO | Ant1    | 5785           | 1.30                       | 1.36                     | 95.59          |
| 11N20MIMO | Ant2    | 5785           | 1.30                       | 1.35                     | 96.30          |
| 11N20MIMO | Ant1    | 5825           | 1.30                       | 1.35                     | 96.30          |
| 11N20MIMO | Ant2    | 5825           | 1.30                       | 1.36                     | 95.59          |
| 11N40MIMO | Ant1    | 5190           | 0.64                       | 0.70                     | 91.43          |
| 11N40MIMO | Ant2    | 5190           | 0.64                       | 0.70                     | 91.43          |
| 11N40MIMO | Ant1    | 5230           | 0.65                       | 0.70                     | 92.86          |
| 11N40MIMO | Ant2    | 5230           | 0.64                       | 0.70                     | 91.43          |
| 11N40MIMO | Ant1    | 5270           | 0.64                       | 0.70                     | 91.43          |

|            |      |      |      |      |       |
|------------|------|------|------|------|-------|
| 11N40MIMO  | Ant2 | 5270 | 0.65 | 0.70 | 92.86 |
| 11N40MIMO  | Ant1 | 5310 | 0.64 | 0.70 | 91.43 |
| 11N40MIMO  | Ant2 | 5310 | 0.65 | 0.70 | 92.86 |
| 11N40MIMO  | Ant1 | 5510 | 0.64 | 0.70 | 91.43 |
| 11N40MIMO  | Ant2 | 5510 | 0.64 | 0.70 | 91.43 |
| 11N40MIMO  | Ant1 | 5590 | 0.64 | 0.77 | 83.12 |
| 11N40MIMO  | Ant2 | 5590 | 0.64 | 0.70 | 91.43 |
| 11N40MIMO  | Ant1 | 5670 | 0.64 | 0.70 | 91.43 |
| 11N40MIMO  | Ant2 | 5670 | 0.64 | 0.70 | 91.43 |
| 11N40MIMO  | Ant1 | 5755 | 0.64 | 0.70 | 91.43 |
| 11N40MIMO  | Ant2 | 5755 | 0.65 | 0.70 | 92.86 |
| 11N40MIMO  | Ant1 | 5795 | 0.64 | 0.70 | 91.43 |
| 11N40MIMO  | Ant2 | 5795 | 0.65 | 0.70 | 92.86 |
| 11AC20MIMO | Ant1 | 5180 | 1.31 | 1.36 | 96.32 |
| 11AC20MIMO | Ant2 | 5180 | 1.31 | 1.36 | 96.32 |
| 11AC20MIMO | Ant1 | 5200 | 1.31 | 1.37 | 95.62 |
| 11AC20MIMO | Ant2 | 5200 | 1.31 | 1.36 | 96.32 |
| 11AC20MIMO | Ant1 | 5240 | 1.31 | 1.36 | 96.32 |
| 11AC20MIMO | Ant2 | 5240 | 1.31 | 1.37 | 95.62 |
| 11AC20MIMO | Ant1 | 5260 | 1.31 | 1.37 | 95.62 |
| 11AC20MIMO | Ant2 | 5260 | 1.31 | 1.37 | 95.62 |
| 11AC20MIMO | Ant1 | 5300 | 1.31 | 1.36 | 96.32 |
| 11AC20MIMO | Ant2 | 5300 | 1.31 | 1.36 | 96.32 |
| 11AC20MIMO | Ant1 | 5320 | 1.31 | 1.37 | 95.62 |
| 11AC20MIMO | Ant2 | 5320 | 1.31 | 1.37 | 95.62 |
| 11AC20MIMO | Ant1 | 5500 | 1.31 | 1.36 | 96.32 |
| 11AC20MIMO | Ant2 | 5500 | 1.31 | 1.37 | 95.62 |
| 11AC20MIMO | Ant1 | 5580 | 1.31 | 1.37 | 95.62 |
| 11AC20MIMO | Ant2 | 5580 | 1.31 | 1.36 | 96.32 |
| 11AC20MIMO | Ant1 | 5700 | 1.32 | 1.37 | 96.35 |
| 11AC20MIMO | Ant2 | 5700 | 1.31 | 1.36 | 96.32 |
| 11AC20MIMO | Ant1 | 5745 | 1.31 | 1.37 | 95.62 |
| 11AC20MIMO | Ant2 | 5745 | 1.31 | 1.37 | 95.62 |
| 11AC20MIMO | Ant1 | 5785 | 1.31 | 1.36 | 96.32 |
| 11AC20MIMO | Ant2 | 5785 | 1.31 | 1.36 | 96.32 |
| 11AC20MIMO | Ant1 | 5825 | 1.31 | 1.36 | 96.32 |
| 11AC20MIMO | Ant2 | 5825 | 1.31 | 1.37 | 95.62 |
| 11AC40MIMO | Ant1 | 5190 | 0.65 | 0.71 | 91.55 |
| 11AC40MIMO | Ant2 | 5190 | 0.65 | 0.70 | 92.86 |
| 11AC40MIMO | Ant1 | 5230 | 0.65 | 0.71 | 91.55 |
| 11AC40MIMO | Ant2 | 5230 | 0.65 | 0.70 | 92.86 |
| 11AC40MIMO | Ant1 | 5270 | 0.66 | 0.71 | 92.96 |
| 11AC40MIMO | Ant2 | 5270 | 0.65 | 0.70 | 92.86 |
| 11AC40MIMO | Ant1 | 5310 | 0.65 | 0.70 | 92.86 |
| 11AC40MIMO | Ant2 | 5310 | 0.66 | 0.86 | 76.74 |
| 11AC40MIMO | Ant1 | 5510 | 0.65 | 0.70 | 92.86 |
| 11AC40MIMO | Ant2 | 5510 | 0.65 | 0.70 | 92.86 |
| 11AC40MIMO | Ant1 | 5590 | 0.65 | 0.70 | 92.86 |
| 11AC40MIMO | Ant2 | 5590 | 0.66 | 0.71 | 92.96 |
| 11AC40MIMO | Ant1 | 5670 | 0.65 | 0.87 | 74.71 |
| 11AC40MIMO | Ant2 | 5670 | 0.65 | 0.70 | 92.86 |
| 11AC40MIMO | Ant1 | 5755 | 0.66 | 0.71 | 92.96 |
| 11AC40MIMO | Ant2 | 5755 | 0.65 | 0.86 | 75.58 |
| 11AC40MIMO | Ant1 | 5795 | 0.65 | 0.70 | 92.86 |
| 11AC40MIMO | Ant2 | 5795 | 0.66 | 0.71 | 92.96 |
| 11AC80MIMO | Ant1 | 5210 | 0.32 | 0.37 | 86.49 |
| 11AC80MIMO | Ant2 | 5210 | 0.32 | 0.37 | 86.49 |

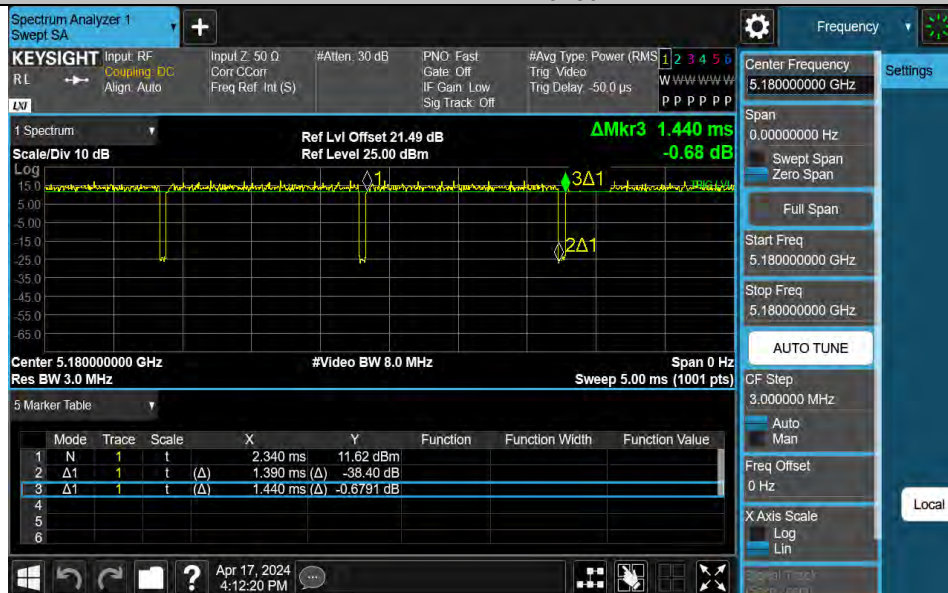
|            |      |      |      |      |       |
|------------|------|------|------|------|-------|
| 11AC80MIMO | Ant1 | 5290 | 0.32 | 0.38 | 84.21 |
| 11AC80MIMO | Ant2 | 5290 | 0.32 | 0.38 | 84.21 |
| 11AC80MIMO | Ant1 | 5530 | 0.32 | 0.38 | 84.21 |
| 11AC80MIMO | Ant2 | 5530 | 0.32 | 0.38 | 84.21 |
| 11AC80MIMO | Ant1 | 5610 | 0.32 | 0.38 | 84.21 |
| 11AC80MIMO | Ant2 | 5610 | 0.32 | 0.37 | 86.49 |
| 11AC80MIMO | Ant1 | 5775 | 0.32 | 0.38 | 84.21 |
| 11AC80MIMO | Ant2 | 5775 | 0.32 | 0.38 | 84.21 |

# Test Graphs

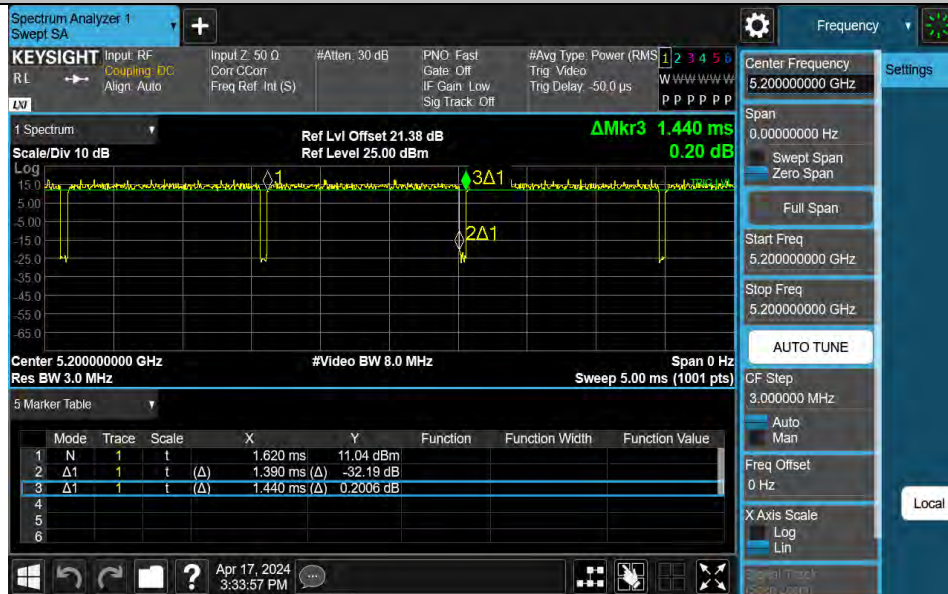
NTNV-11A-Ant1-5180



NTNV-11A-Ant2-5180

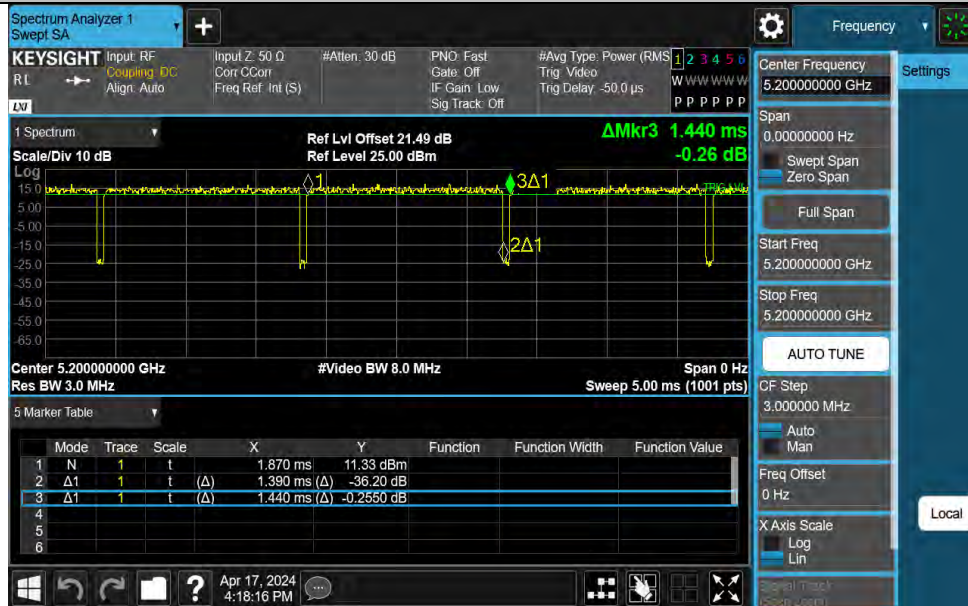


NTNV-11A-Ant1-5200

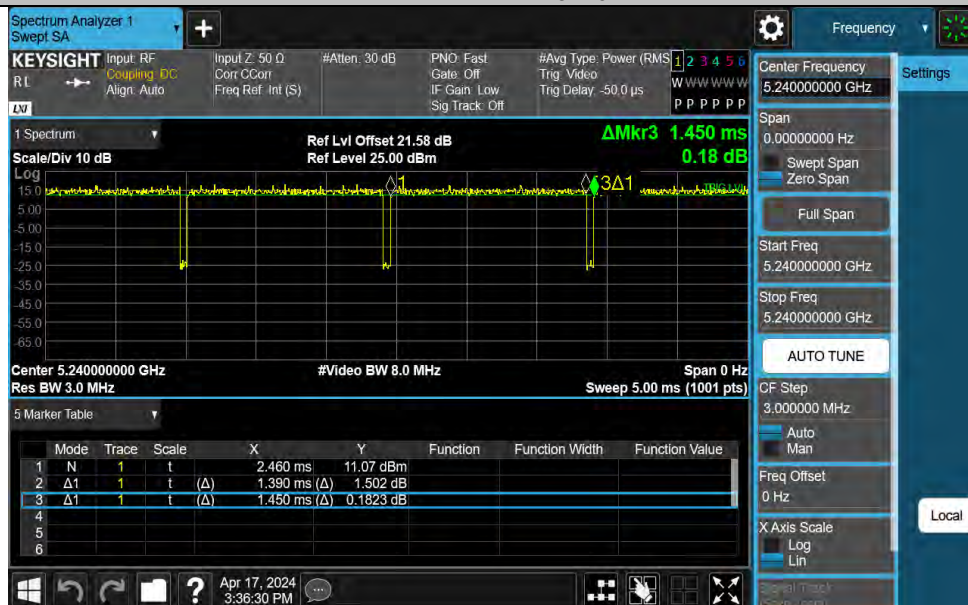




### NTNV-11A-Ant2-5200



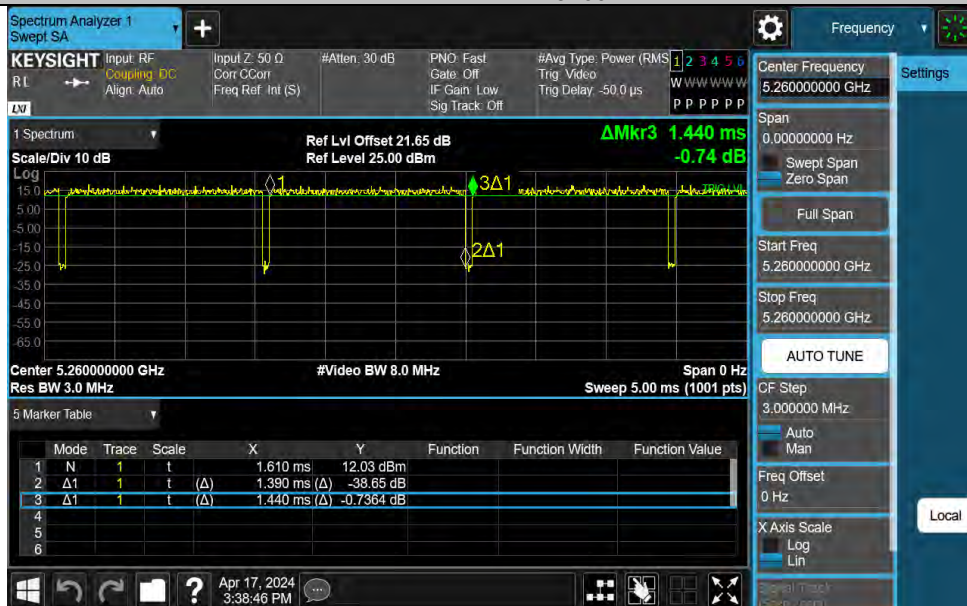
### NTNV-11A-Ant1-5240



### NTNV-11A-Ant2-5240



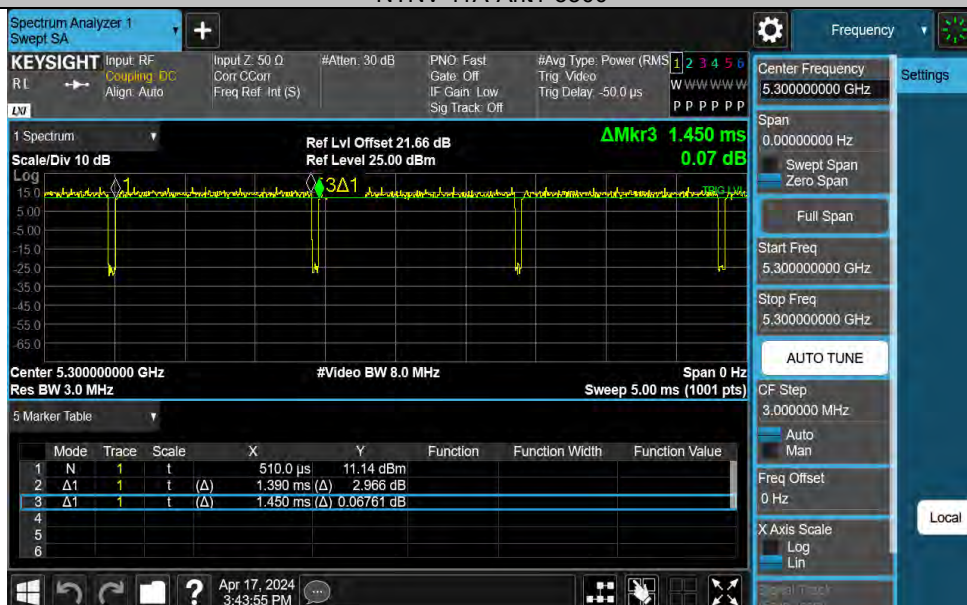
### NTNV-11A-Ant1-5260



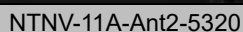
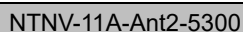
### NTNV-11A-Ant2-5260



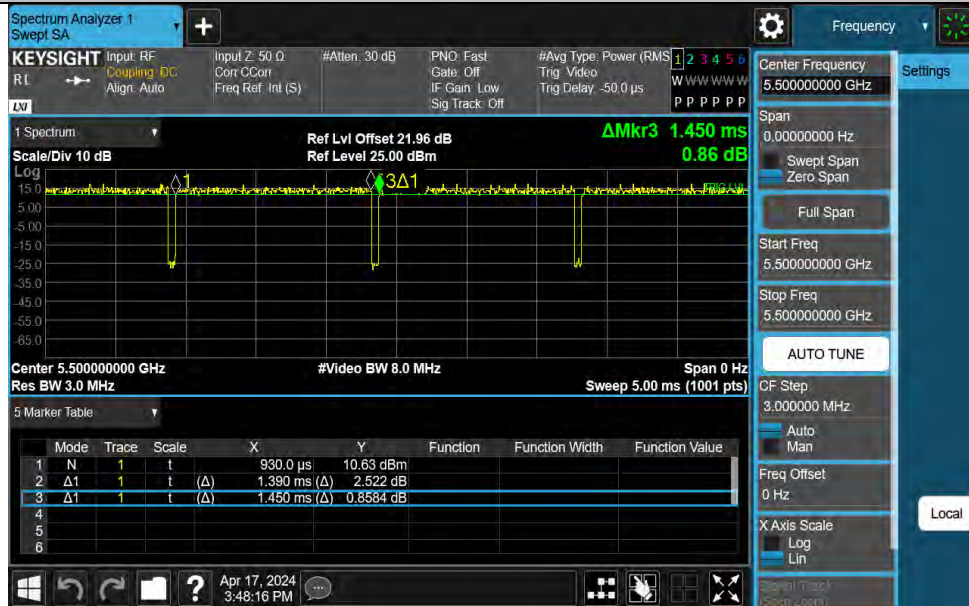
### NTNV-11A-Ant1-5300



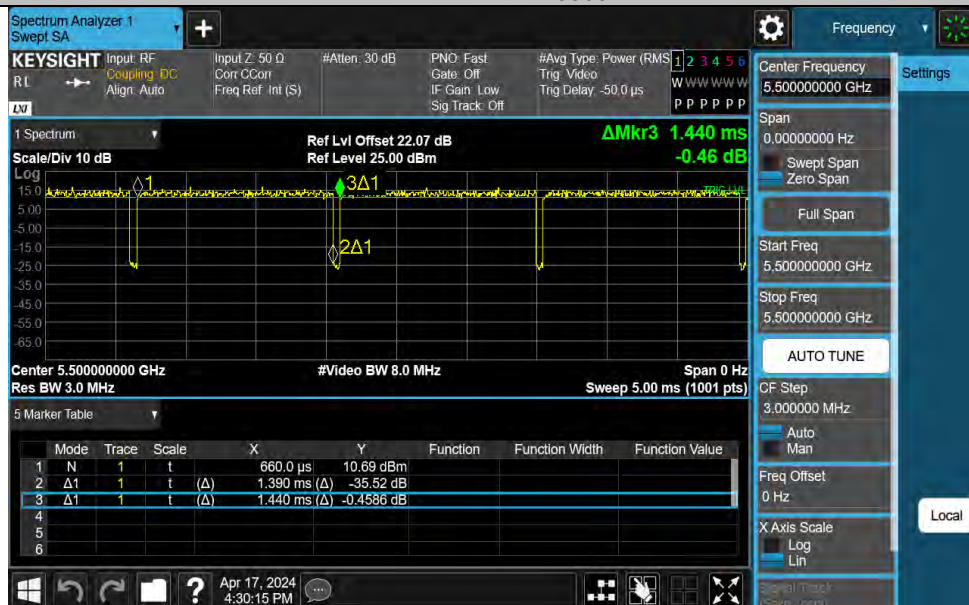




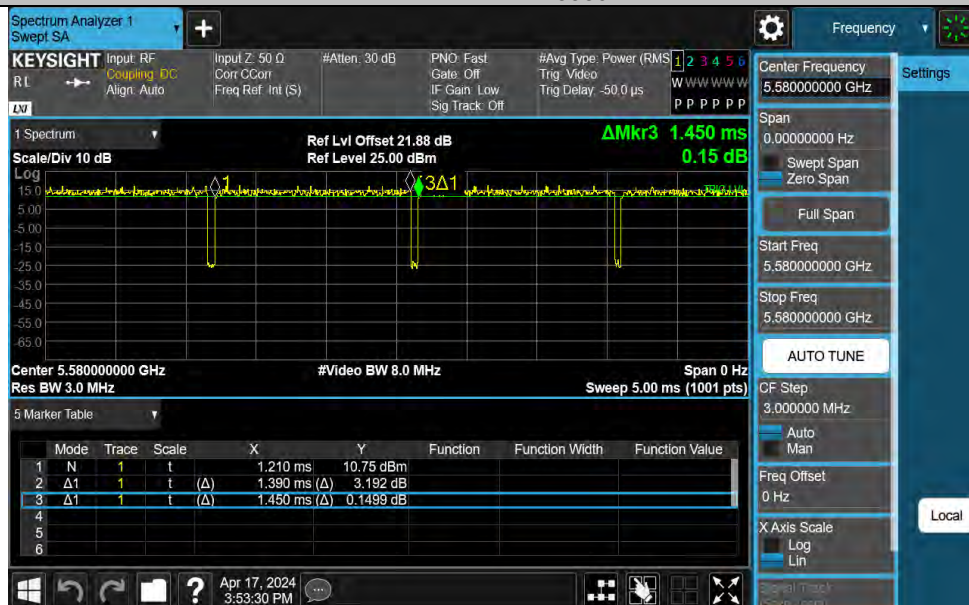
### NTNV-11A-Ant1-5500



### NTNV-11A-Ant2-5500

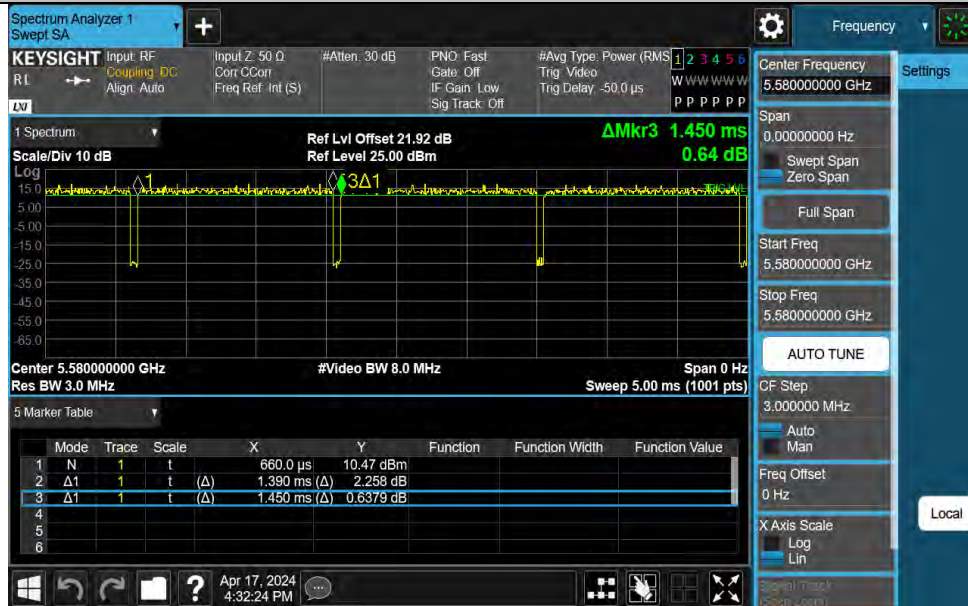


### NTNV-11A-Ant1-5580

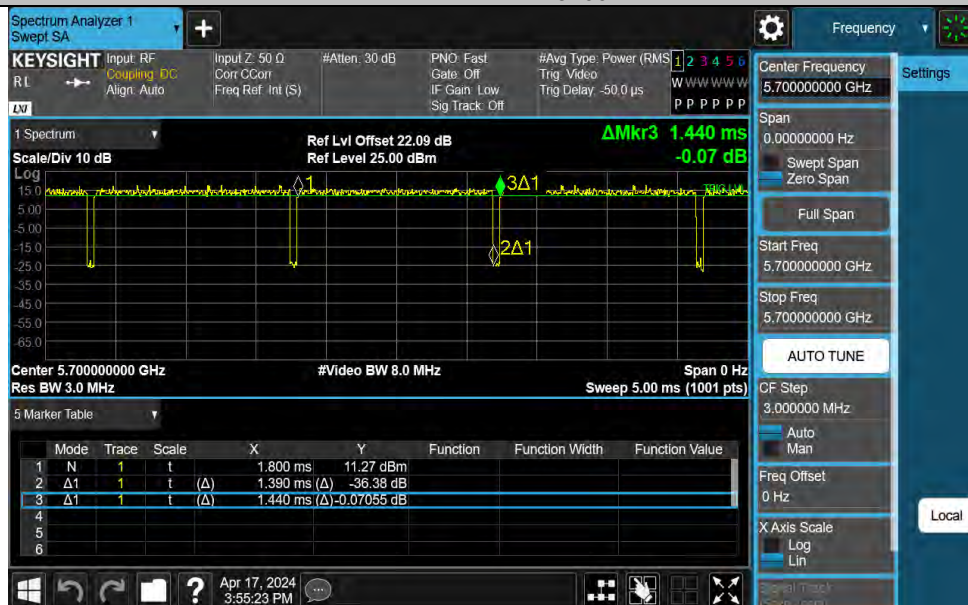




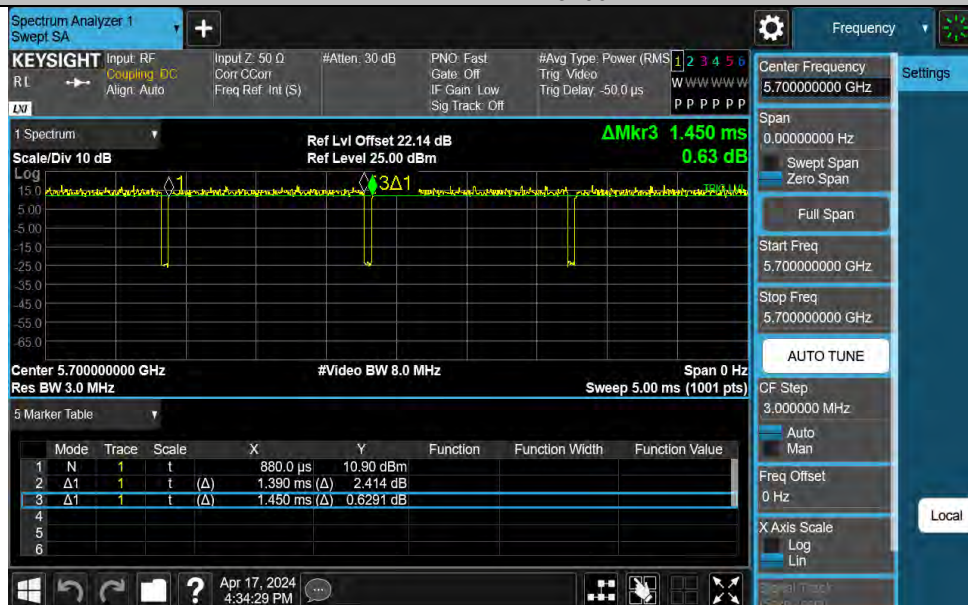
### NTNV-11A-Ant2-5580



### NTNV-11A-Ant1-5700



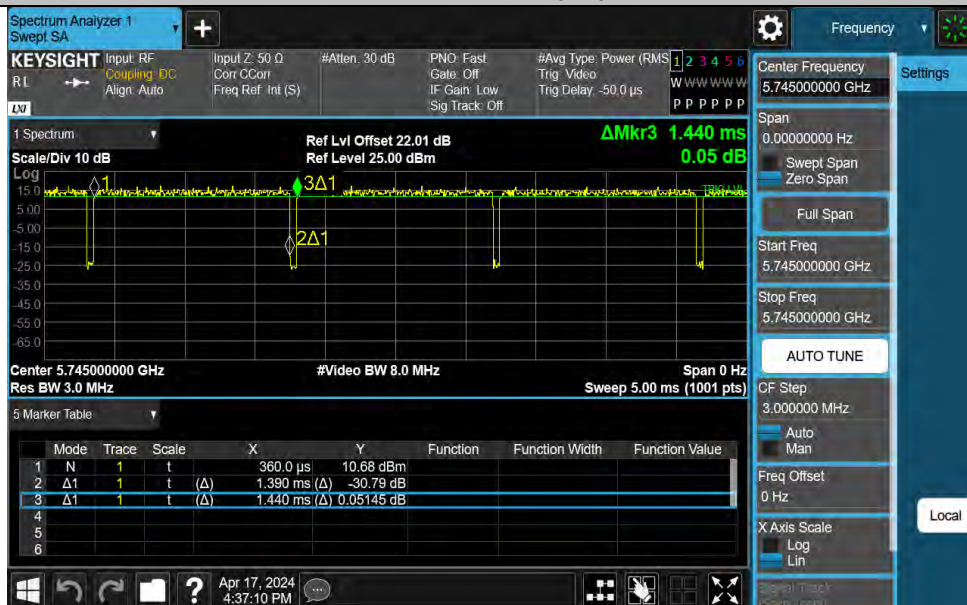
### NTNV-11A-Ant2-5700



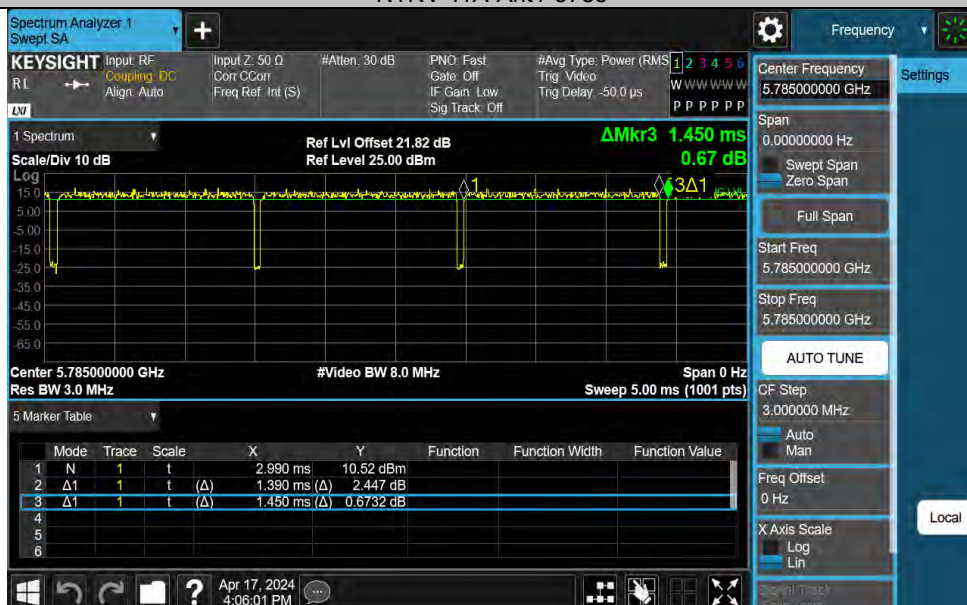
### NTNV-11A-Ant1-5745



### NTNV-11A-Ant2-5745

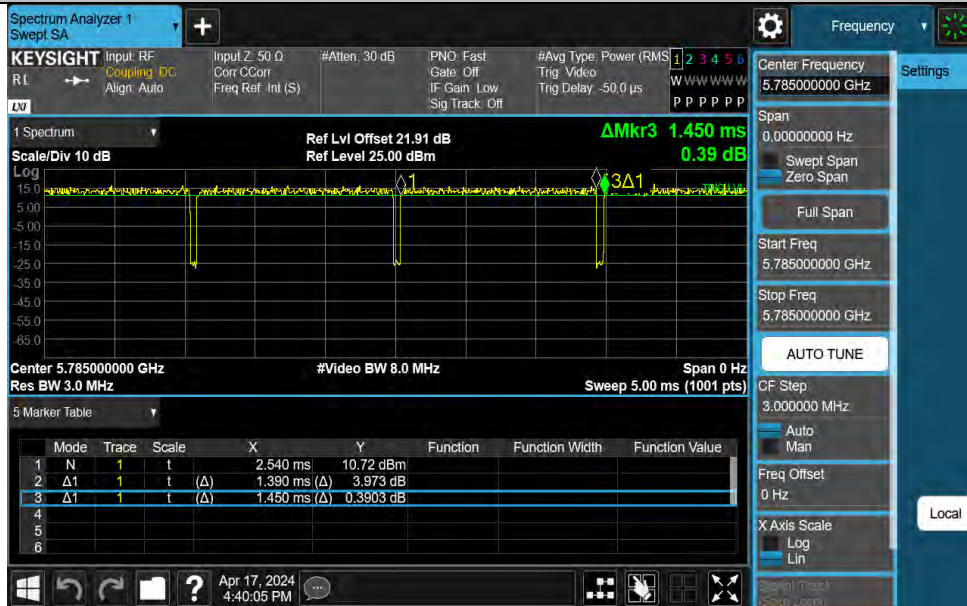


### NTNV-11A-Ant1-5785

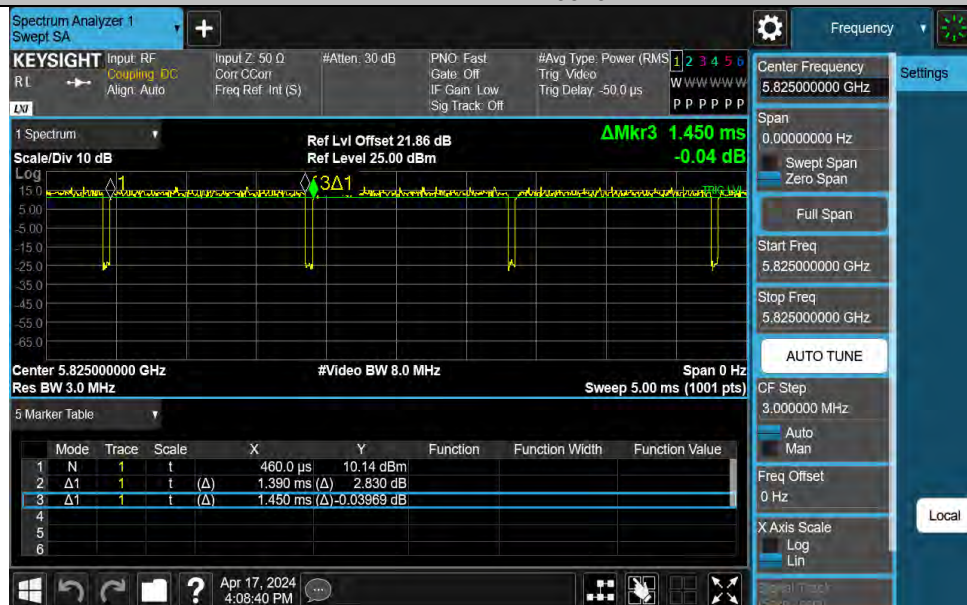




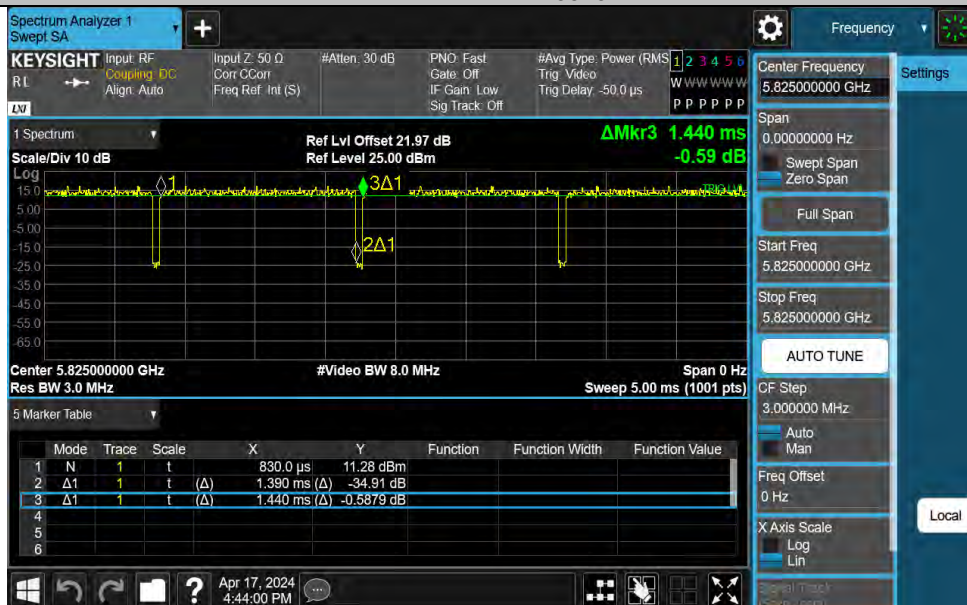
### NTNV-11A-Ant2-5785



### NTNV-11A-Ant1-5825

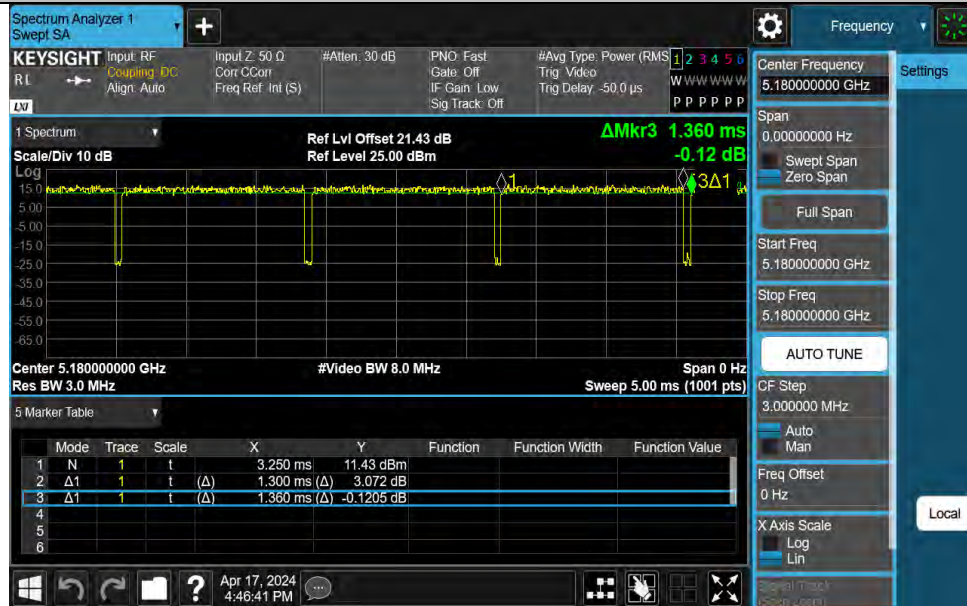


### NTNV-11A-Ant2-5825

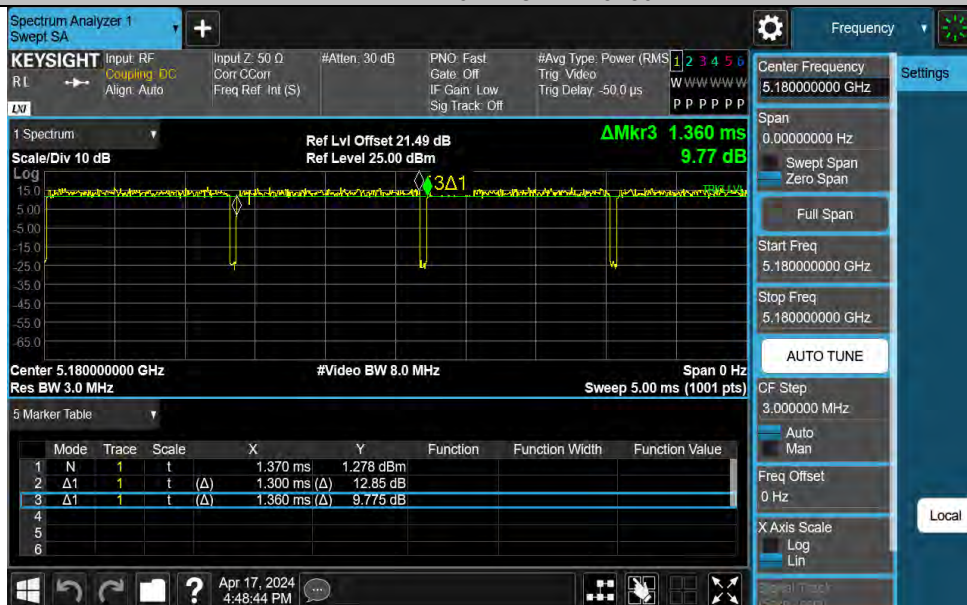




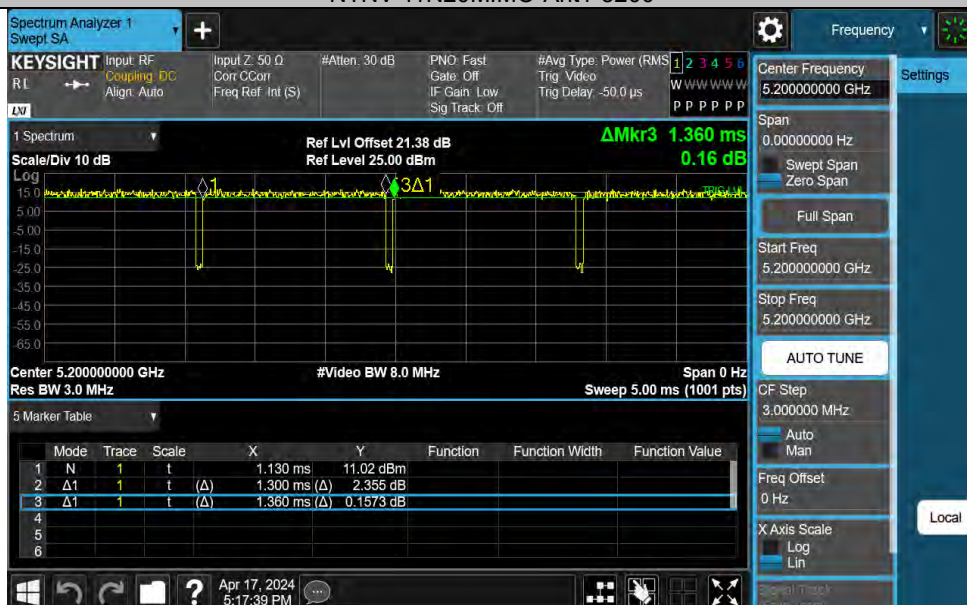
## NTNV-11N20MIMO-Ant1-5180



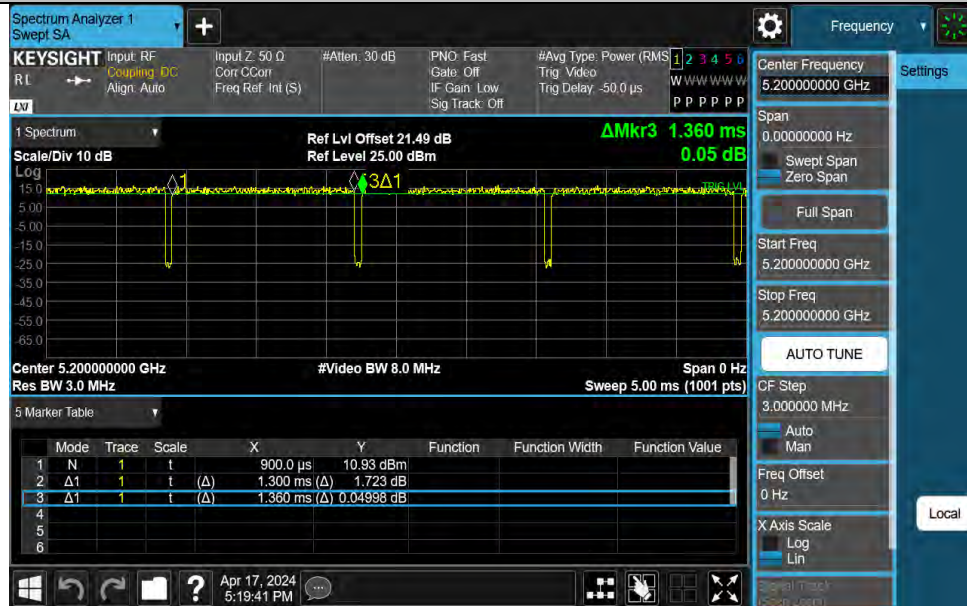
## NTNV-11N20MIMO-Ant2-5180



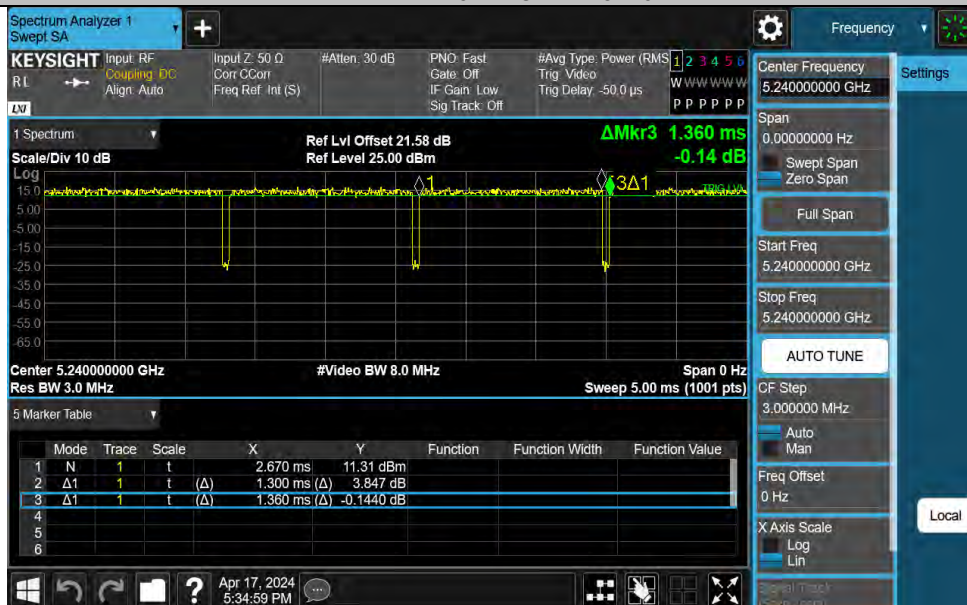
## NTNV-11N20MIMO-Ant1-5200



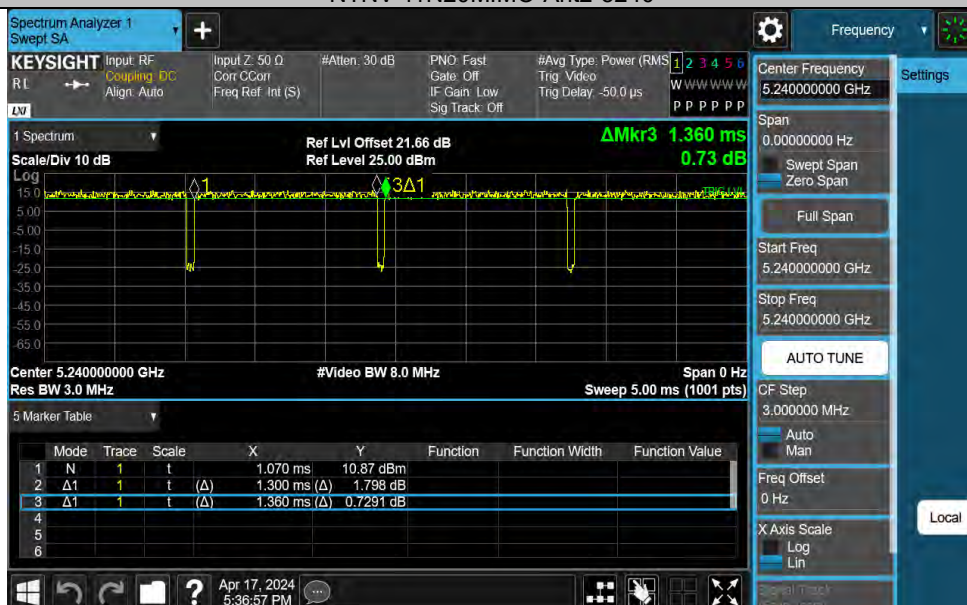
## NTNV-11N20MIMO-Ant2-5200



## NTNV-11N20MIMO-Ant1-5240

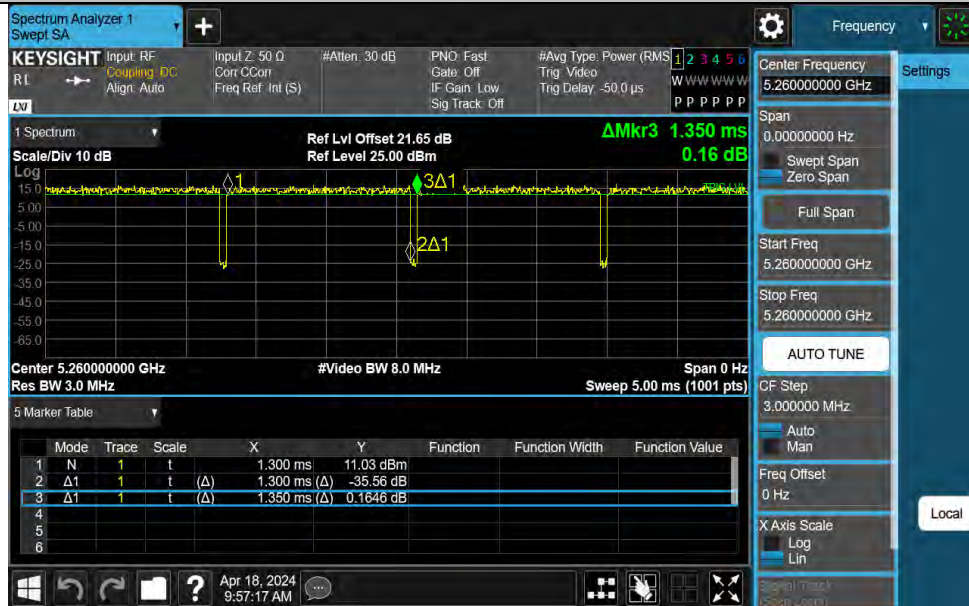


## NTNV-11N20MIMO-Ant2-5240

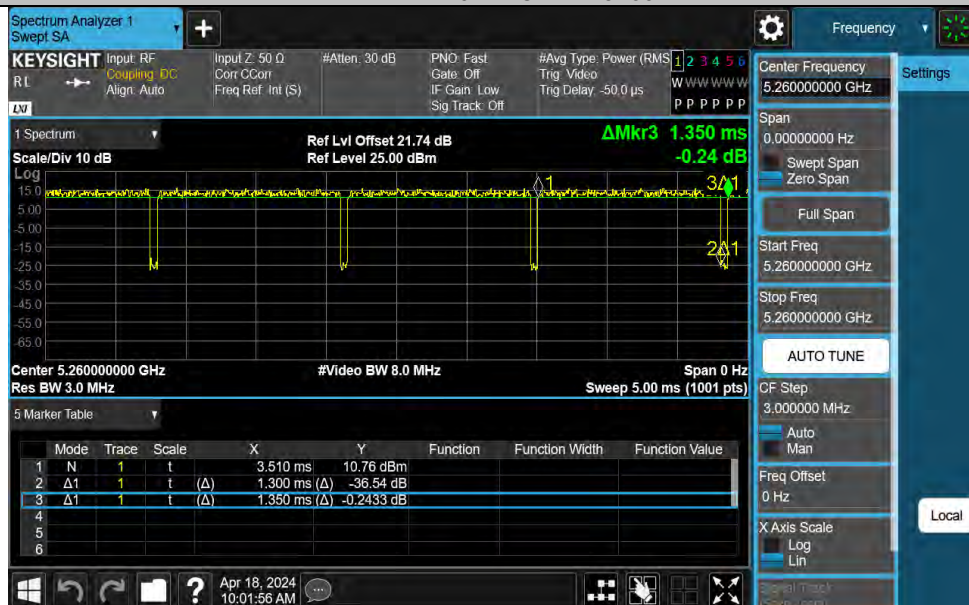




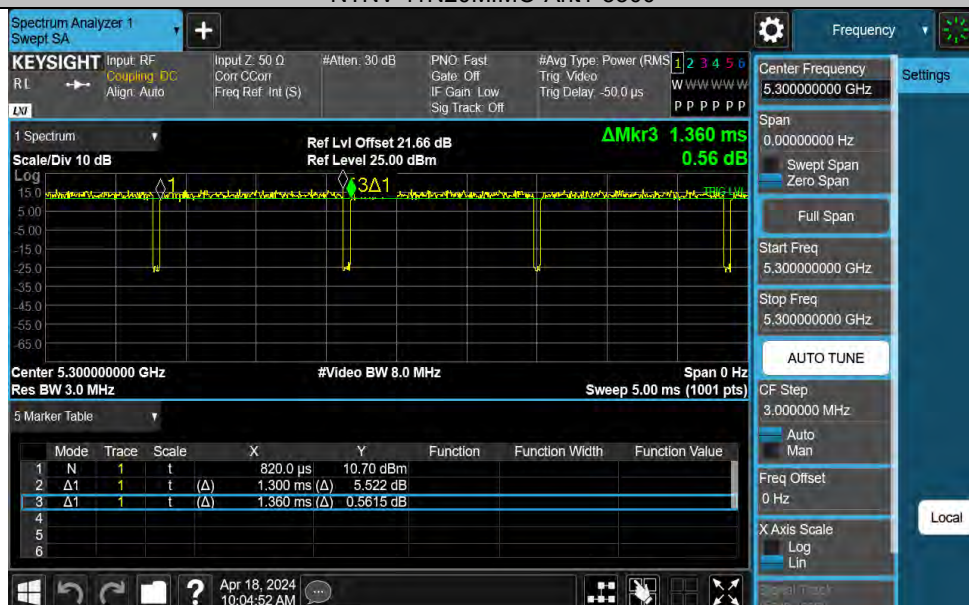
## NTNV-11N20MIMO-Ant1-5260



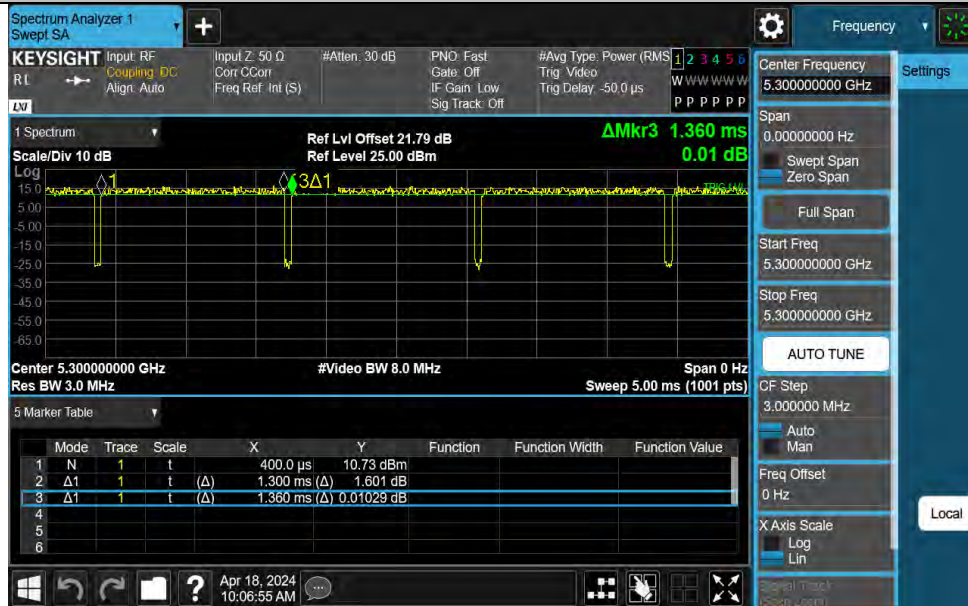
## NTNV-11N20MIMO-Ant2-5260



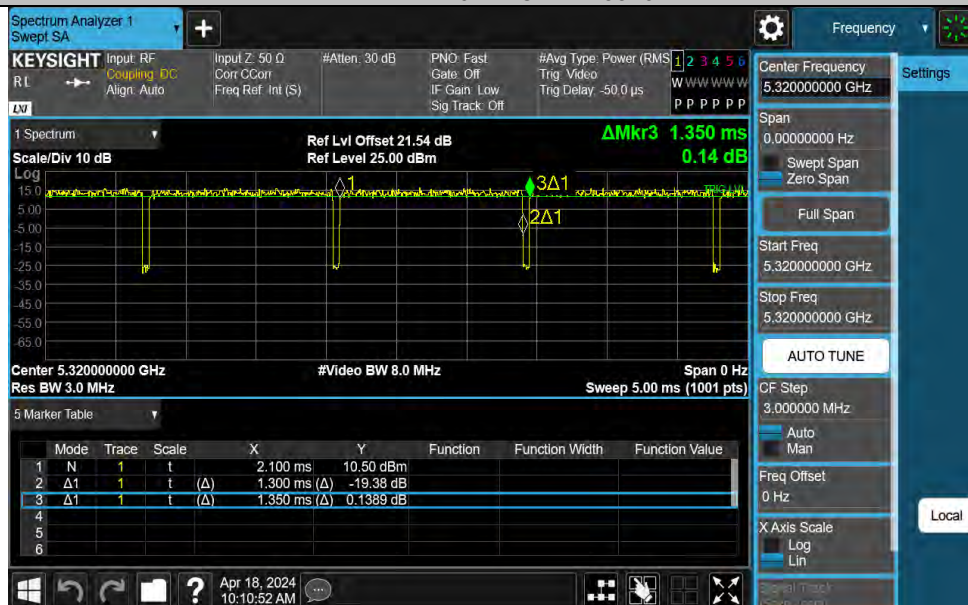
## NTNV-11N20MIMO-Ant1-5300



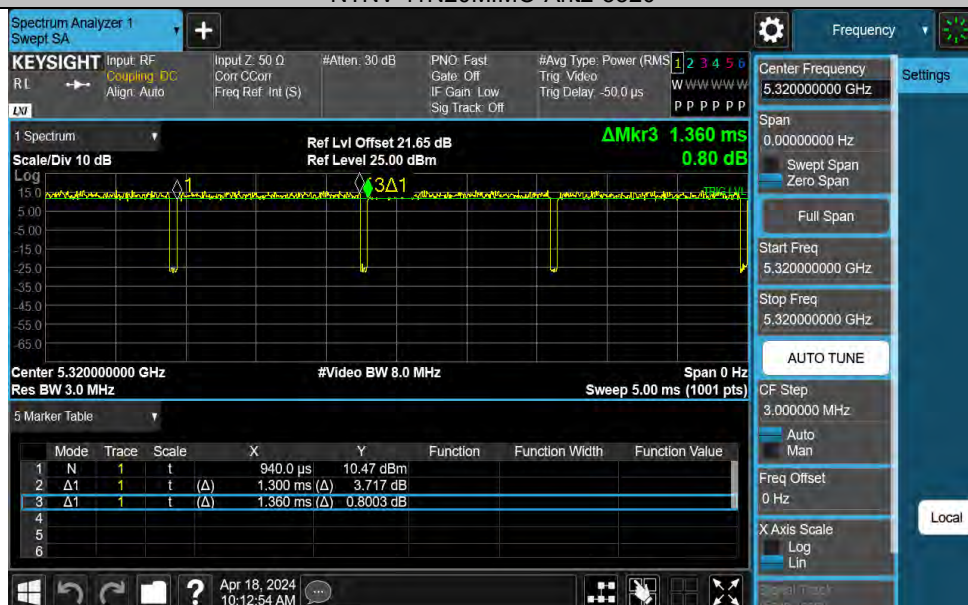
### NTNV-11N20MIMO-Ant2-5300



### NTNV-11N20MIMO-Ant1-5320

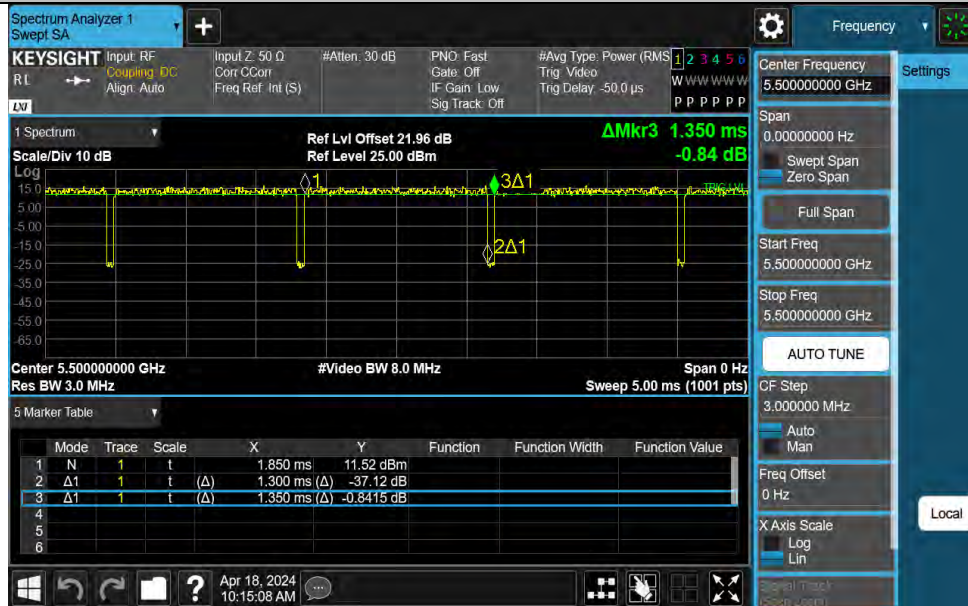


### NTNV-11N20MIMO-Ant2-5320

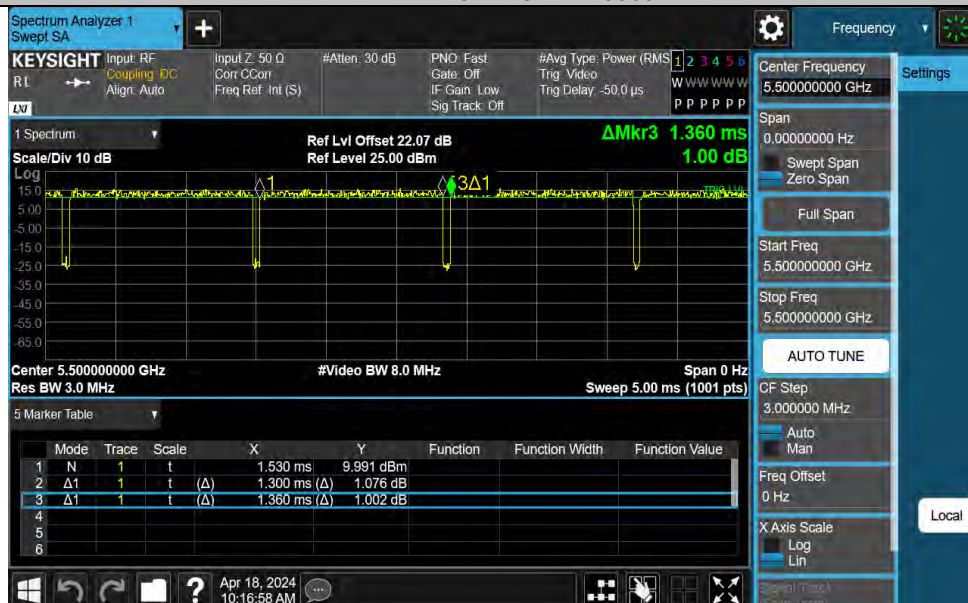




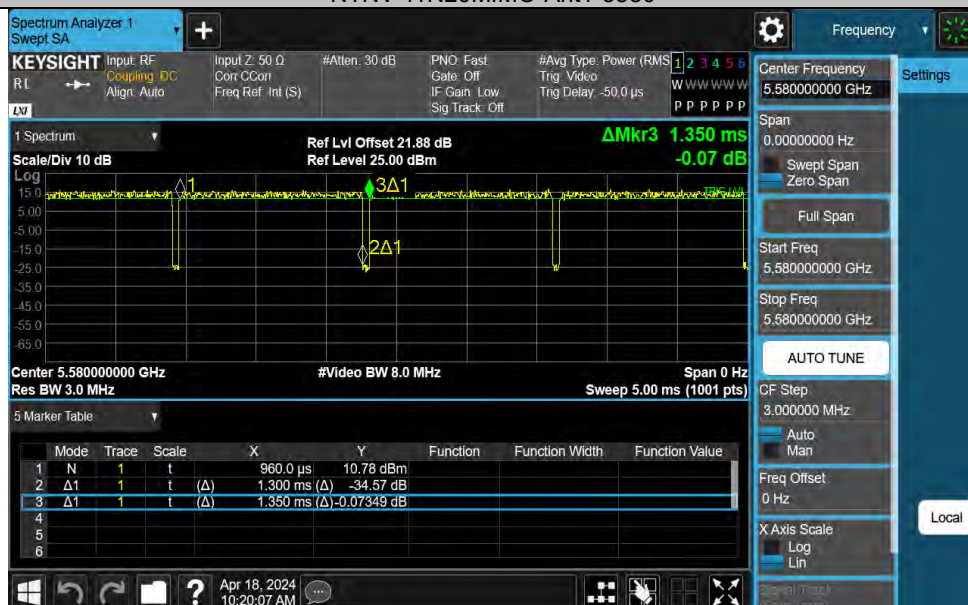
## NTNV-11N20MIMO-Ant1-5500



## NTNV-11N20MIMO-Ant2-5500



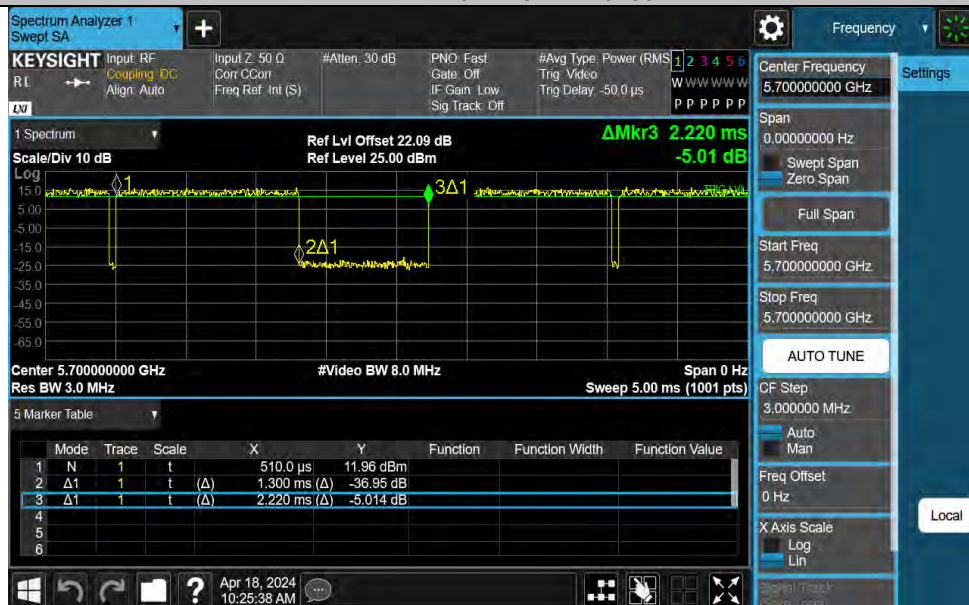
## NTNV-11N20MIMO-Ant1-5580



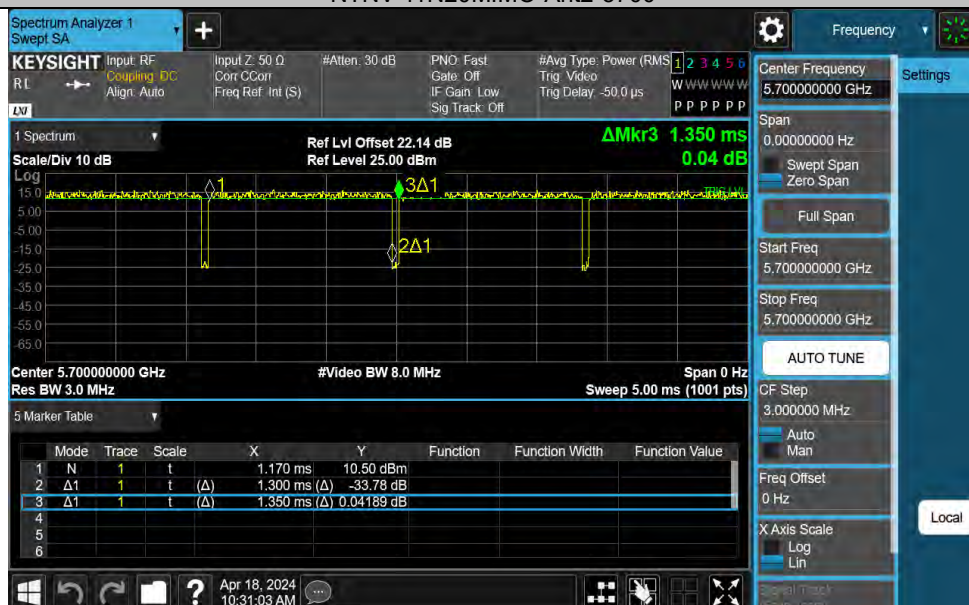
### NTNV-11N20MIMO-Ant2-5580



### NTNV-11N20MIMO-Ant1-5700

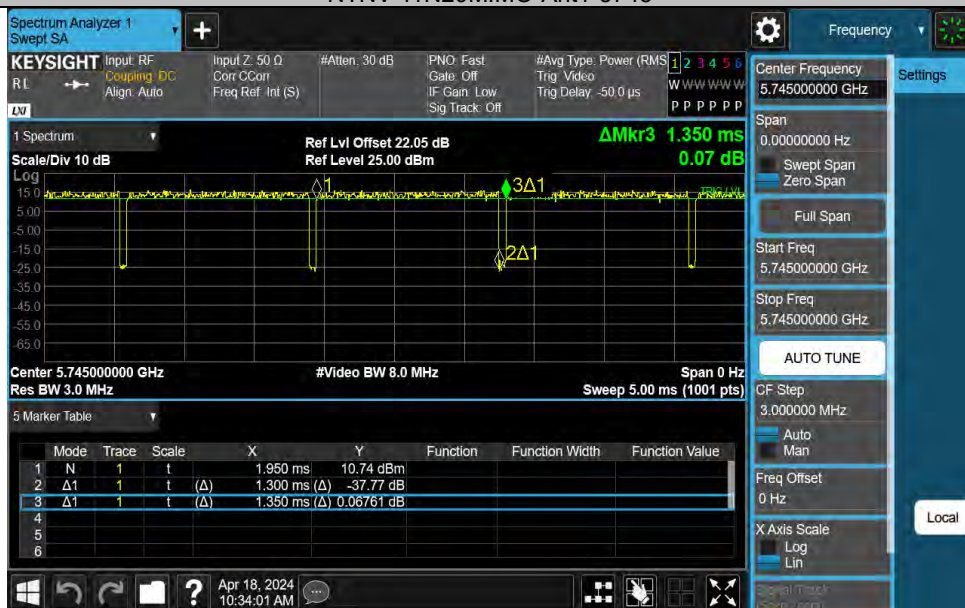


### NTNV-11N20MIMO-Ant2-5700

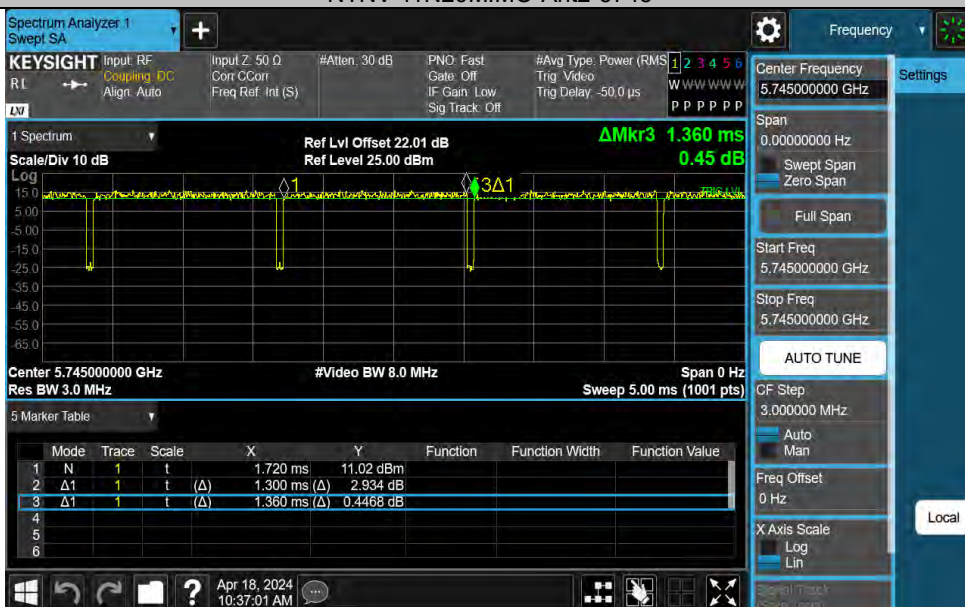




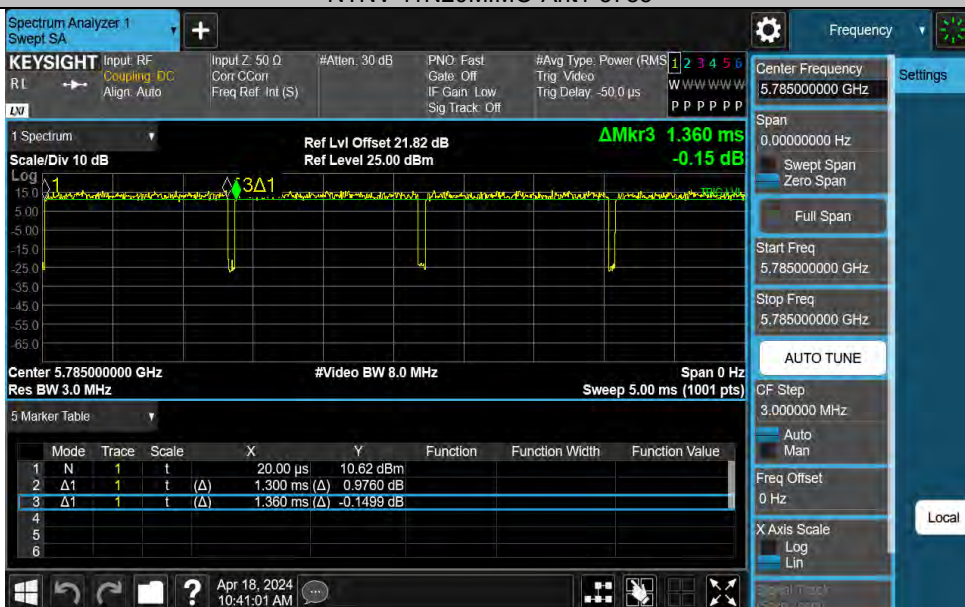
### NTNV-11N20MIMO-Ant1-5745



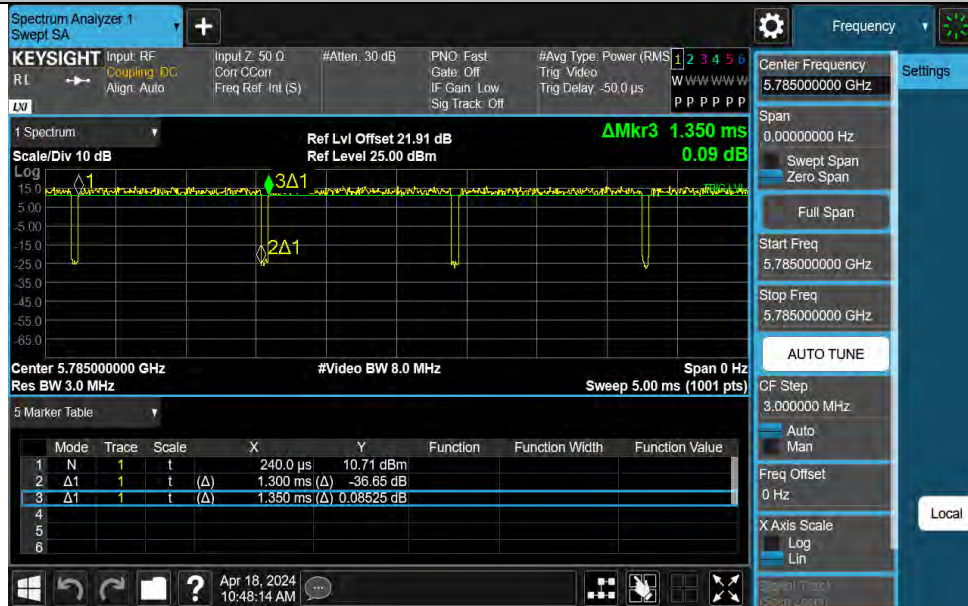
### NTNV-11N20MIMO-Ant2-5745



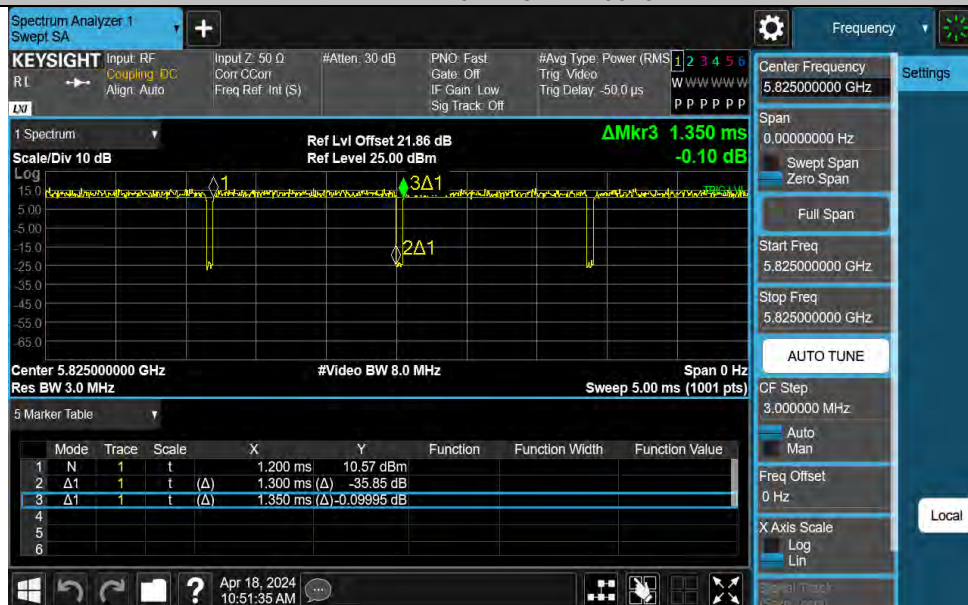
### NTNV-11N20MIMO-Ant1-5785



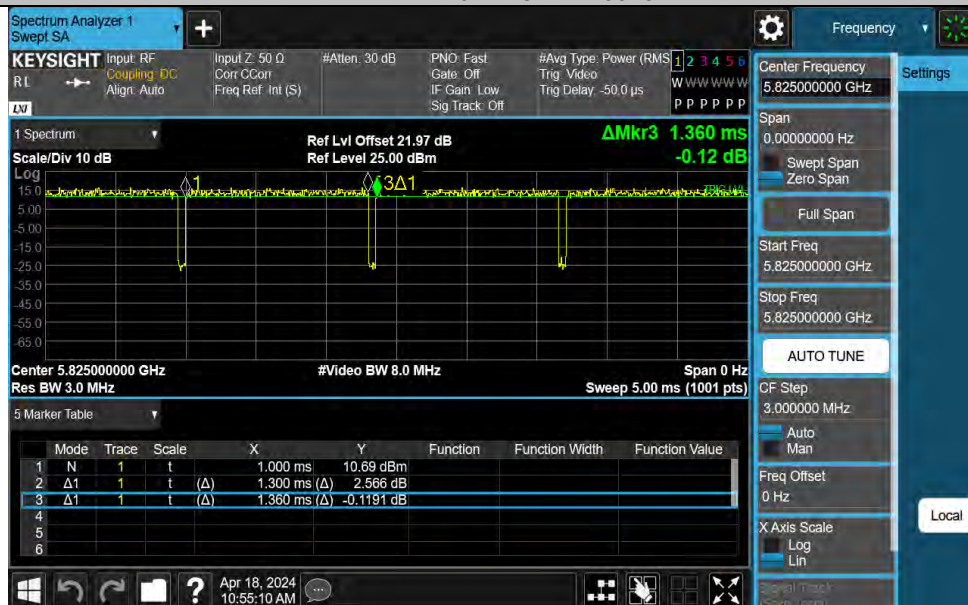
## NTNV-11N20MIMO-Ant2-5785



## NTNV-11N20MIMO-Ant1-5825

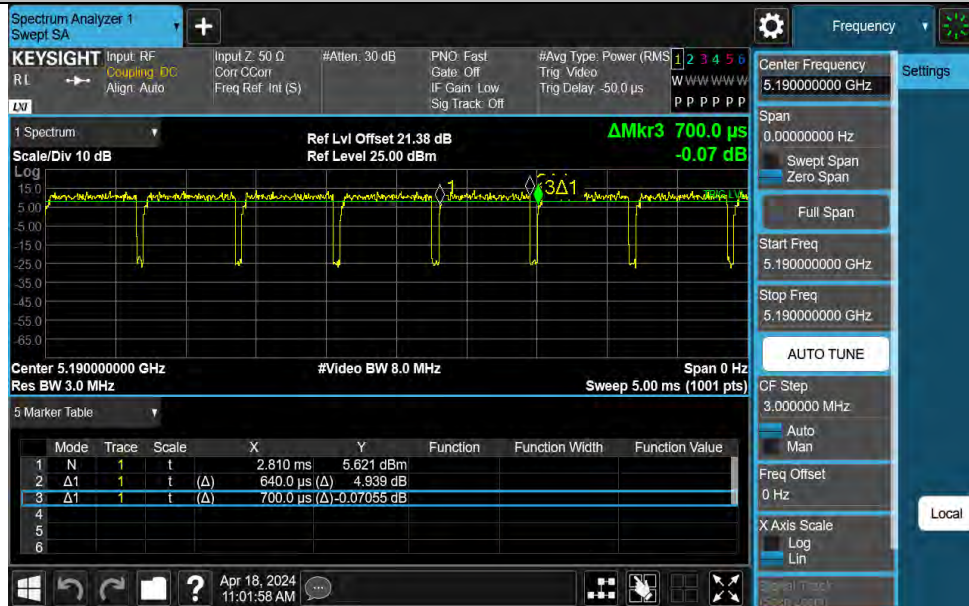


## NTNV-11N20MIMO-Ant2-5825

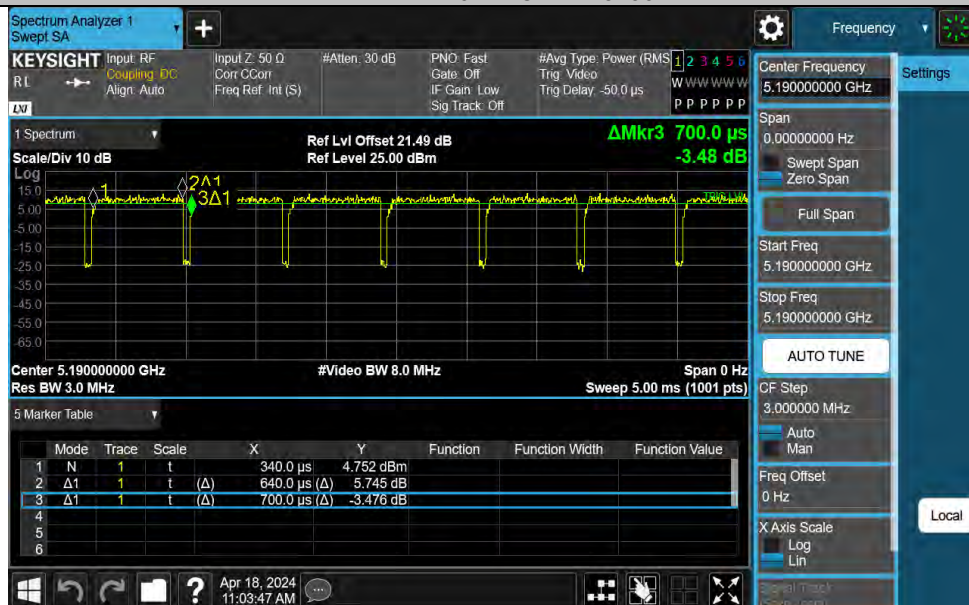




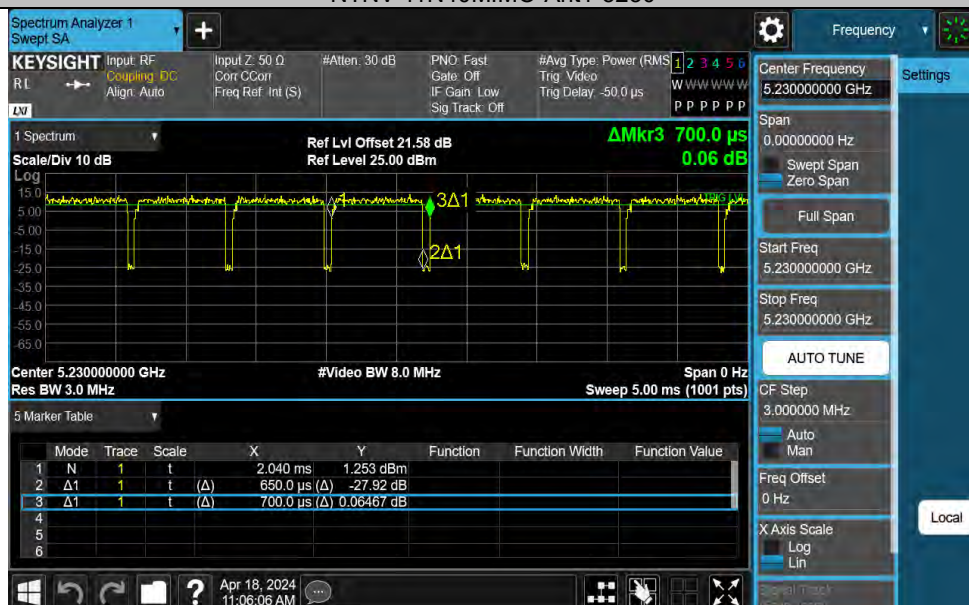
## NTNV-11N40MIMO-Ant1-5190



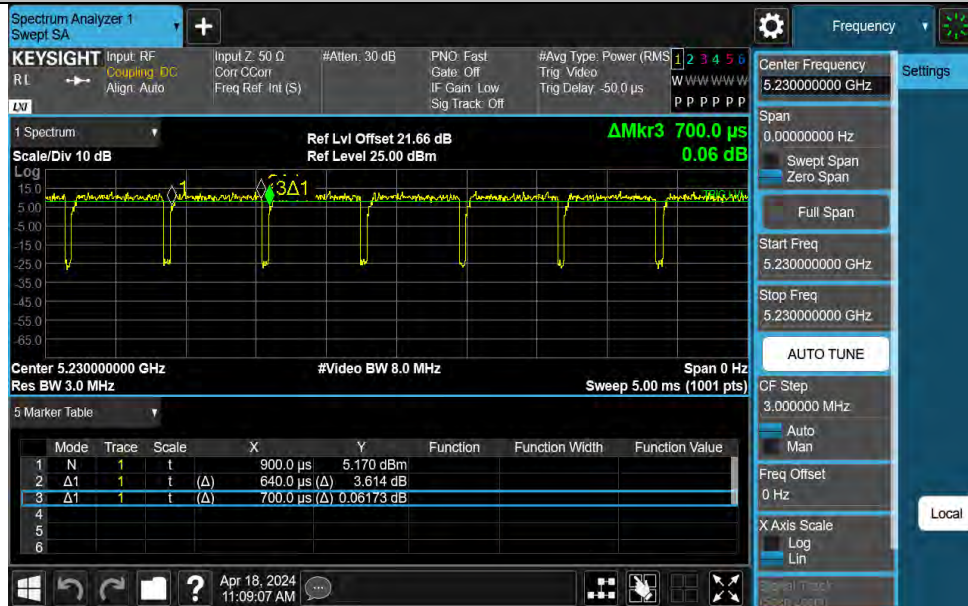
## NTNV-11N40MIMO-Ant2-5190



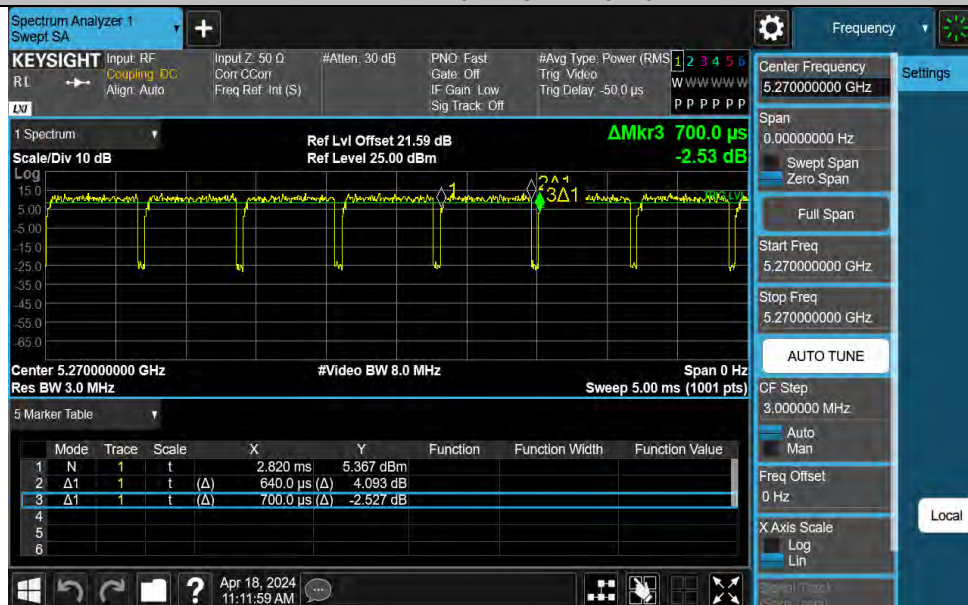
## NTNV-11N40MIMO-Ant1-5230



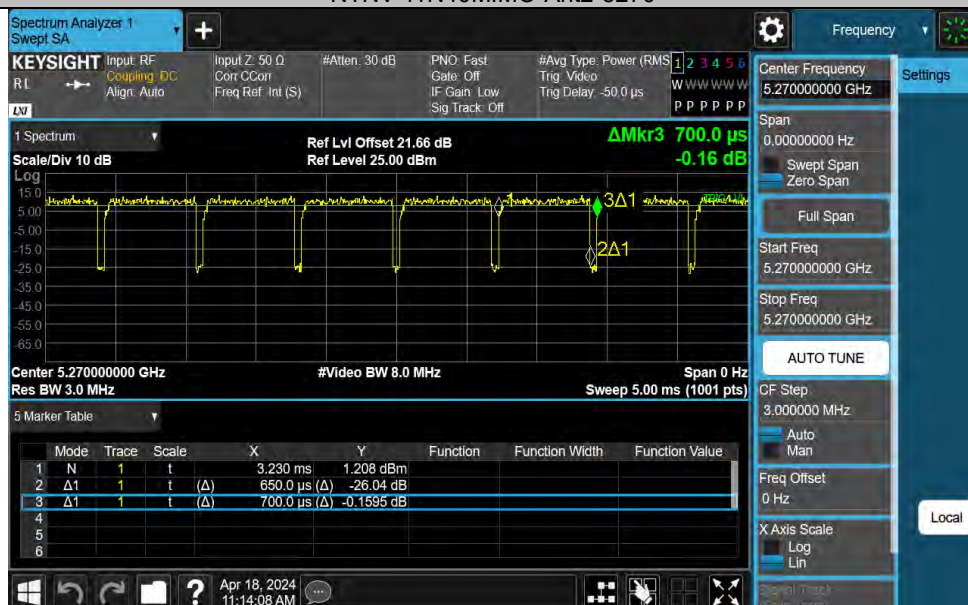
## NTNV-11N40MIMO-Ant2-5230



## NTNV-11N40MIMO-Ant1-5270

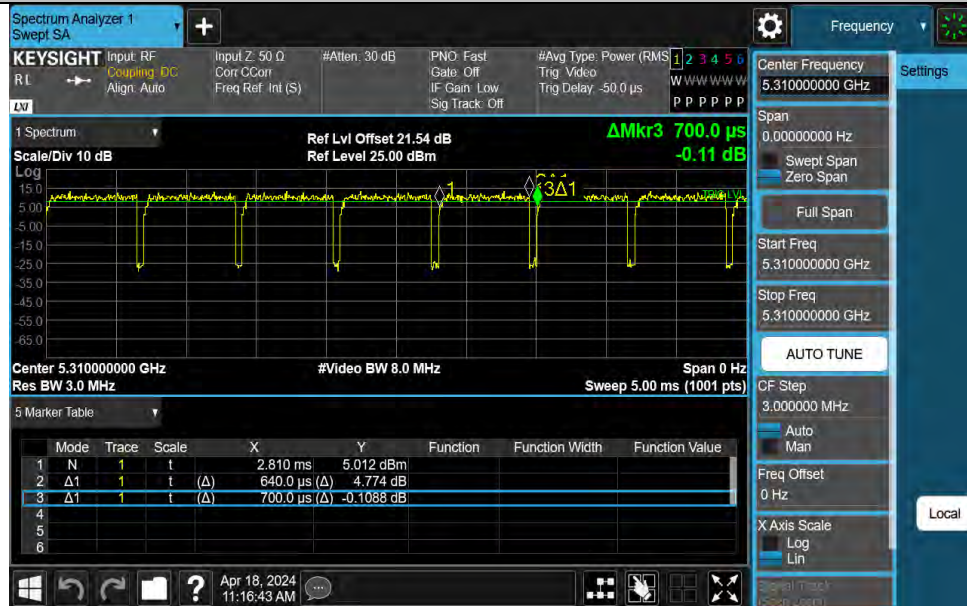


## NTNV-11N40MIMO-Ant2-5270

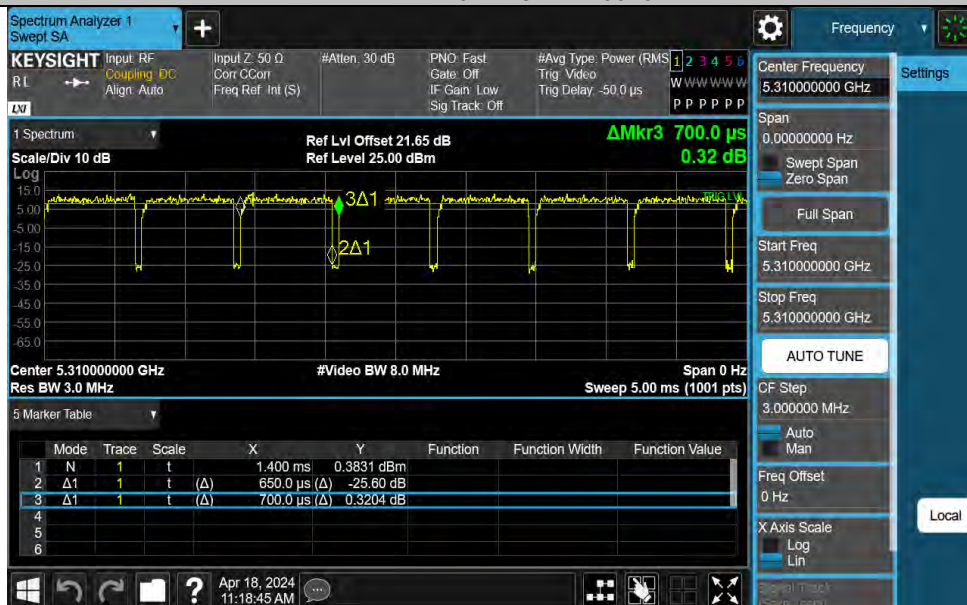




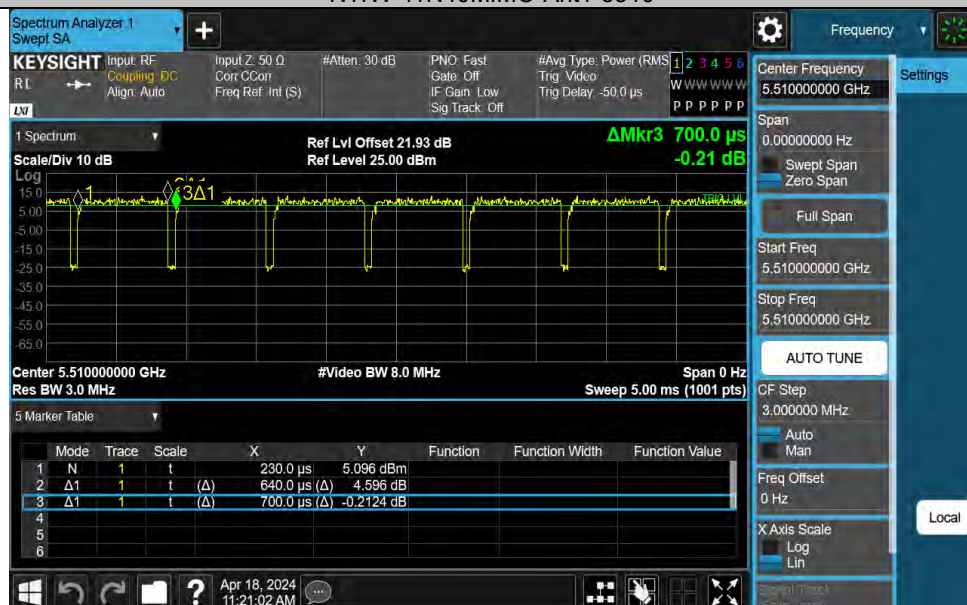
## NTNV-11N40MIMO-Ant1-5310



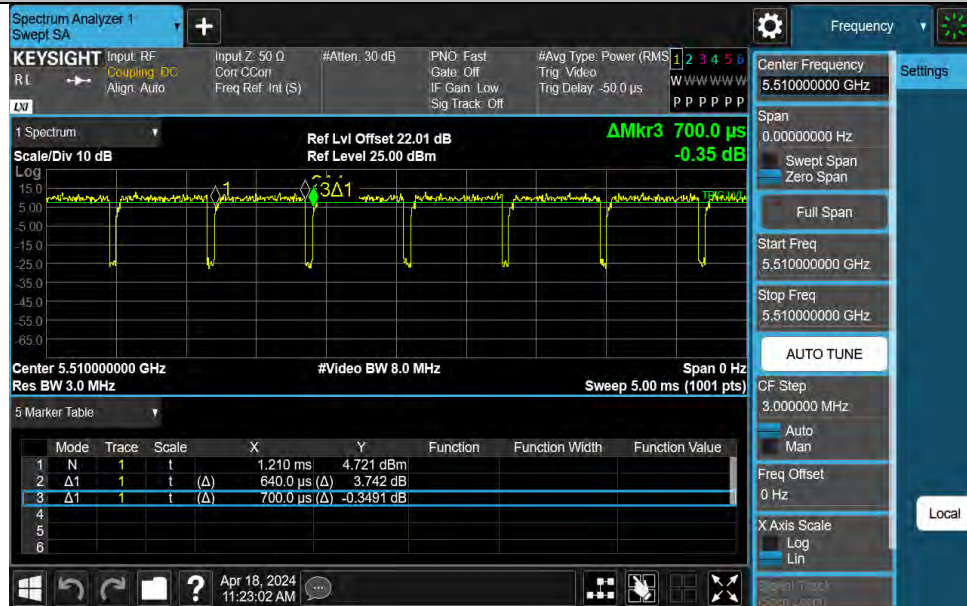
## NTNV-11N40MIMO-Ant2-5310



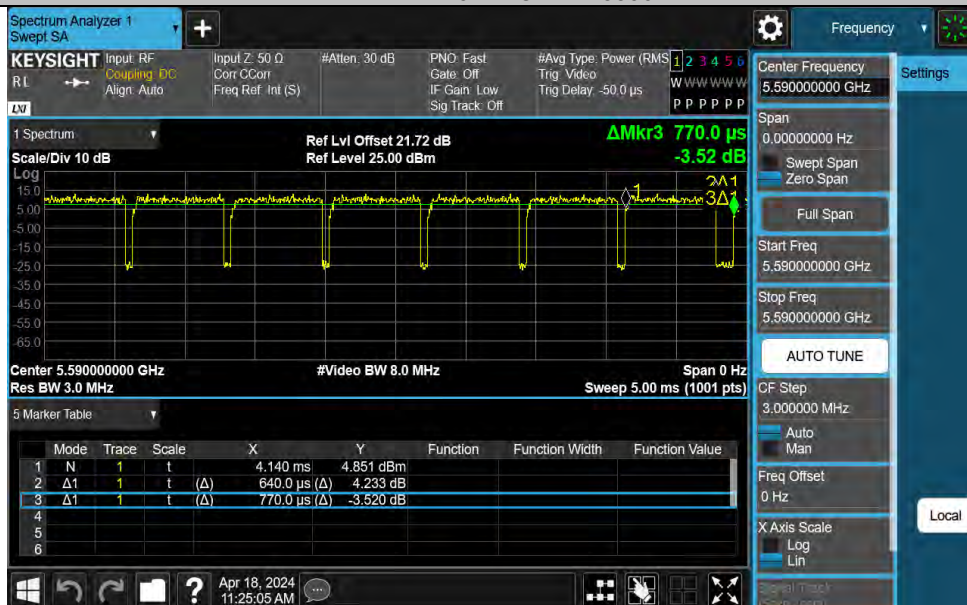
## NTNV-11N40MIMO-Ant1-5510



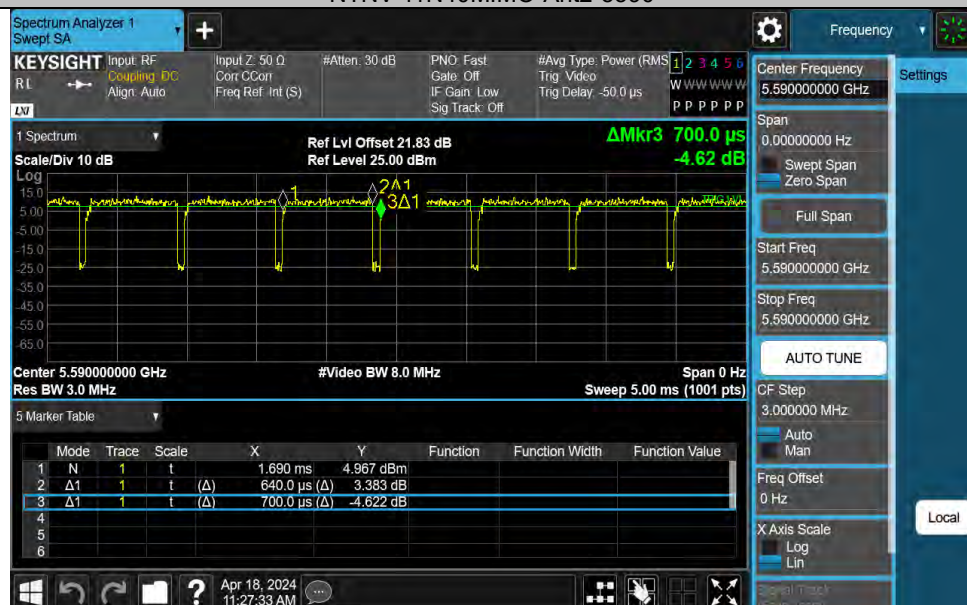
## NTNV-11N40MIMO-Ant2-5510



## NTNV-11N40MIMO-Ant1-5590

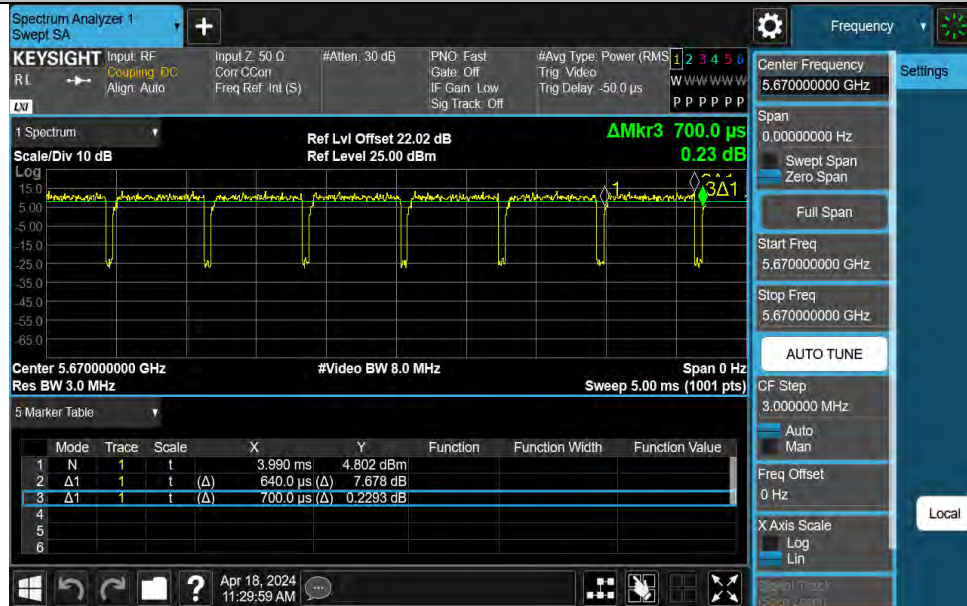


## NTNV-11N40MIMO-Ant2-5590

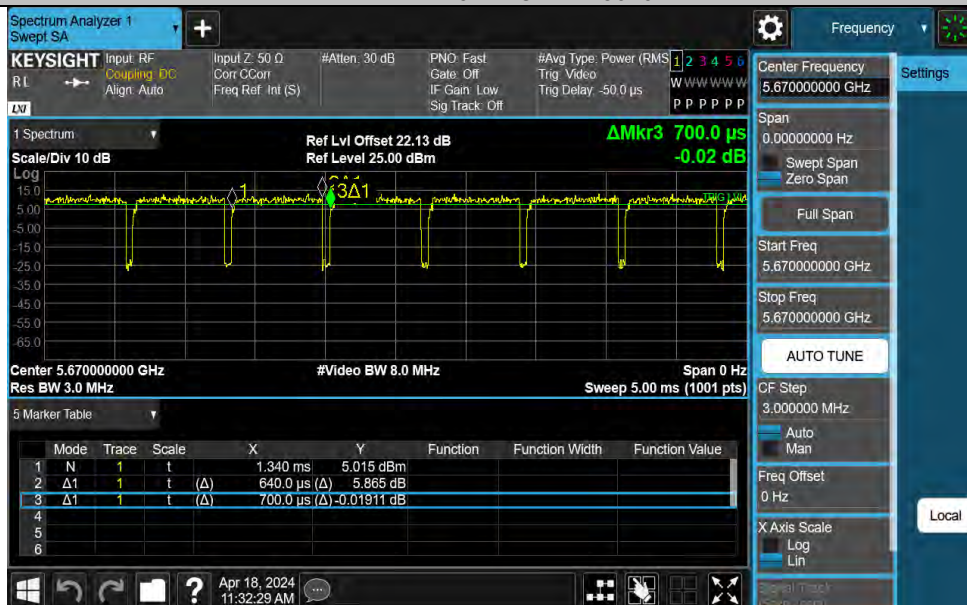




## NTNV-11N40MIMO-Ant1-5670



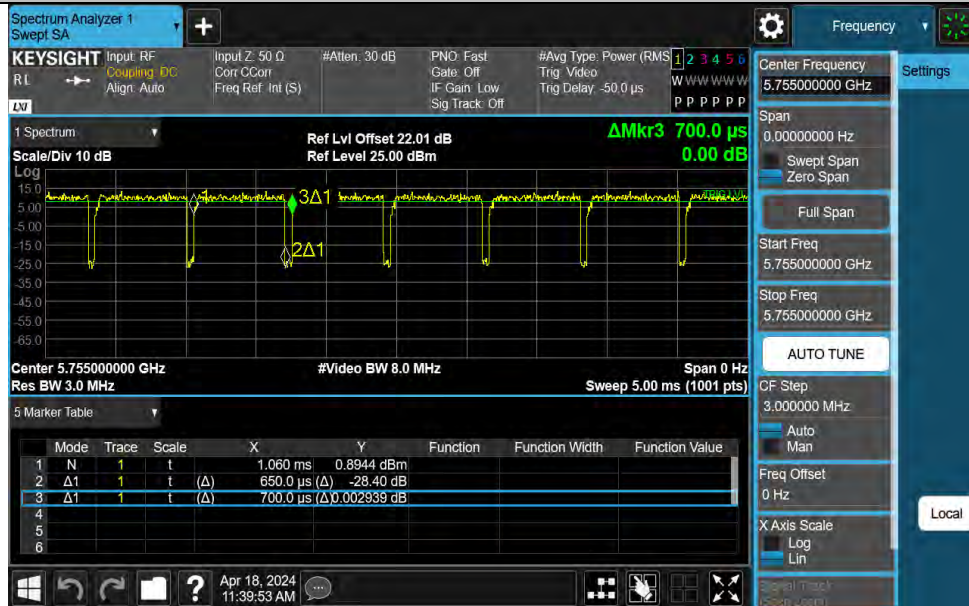
## NTNV-11N40MIMO-Ant2-5670



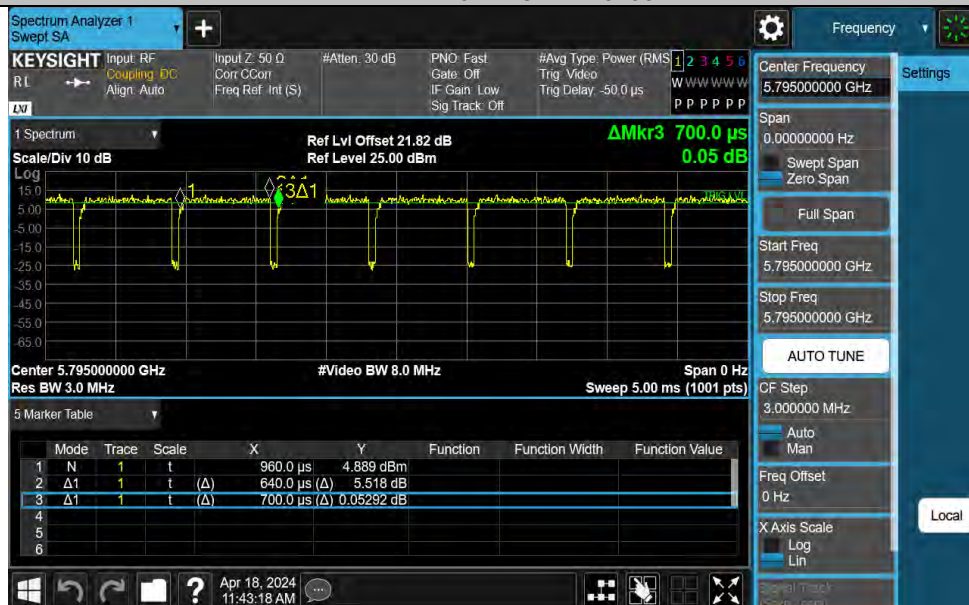
## NTNV-11N40MIMO-Ant1-5755



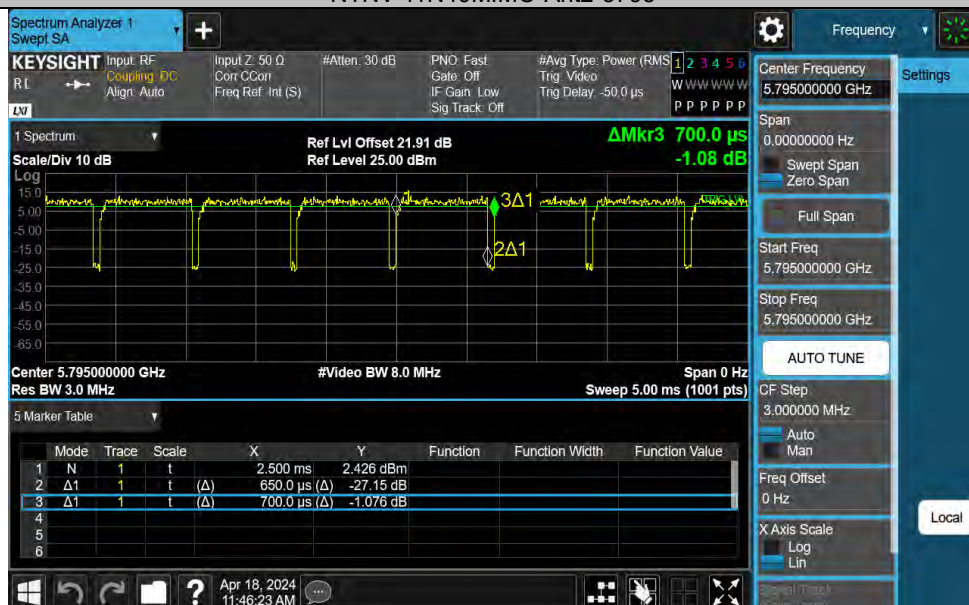
## NTNV-11N40MIMO-Ant2-5755



## NTNV-11N40MIMO-Ant1-5795

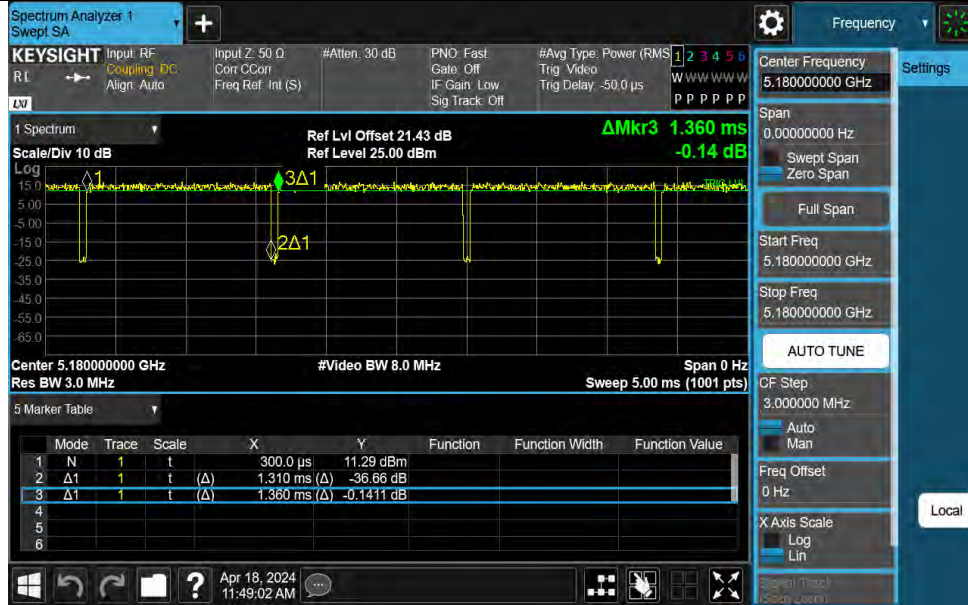


## NTNV-11N40MIMO-Ant2-5795

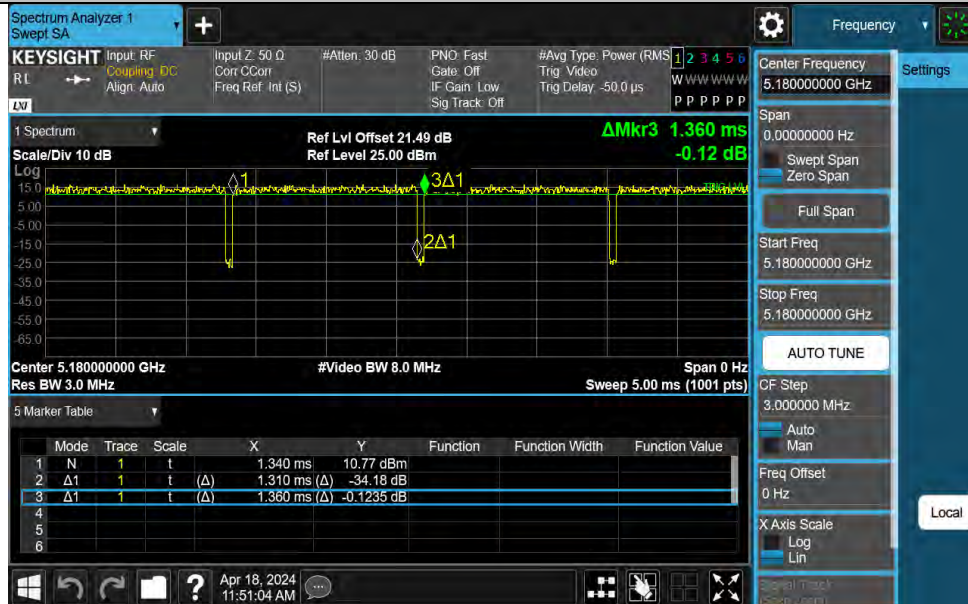




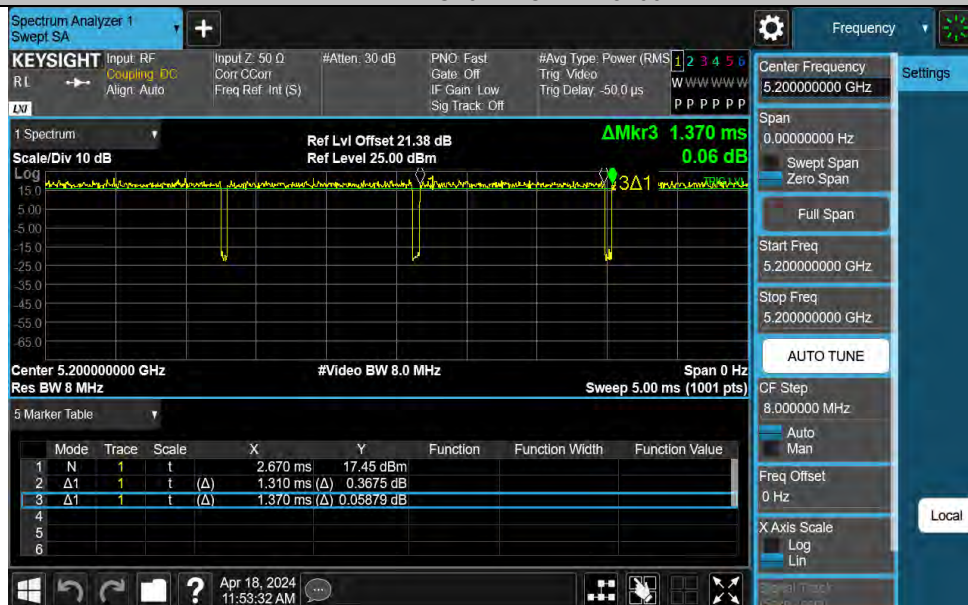
### NTNV-11AC20MIMO-Ant1-5180



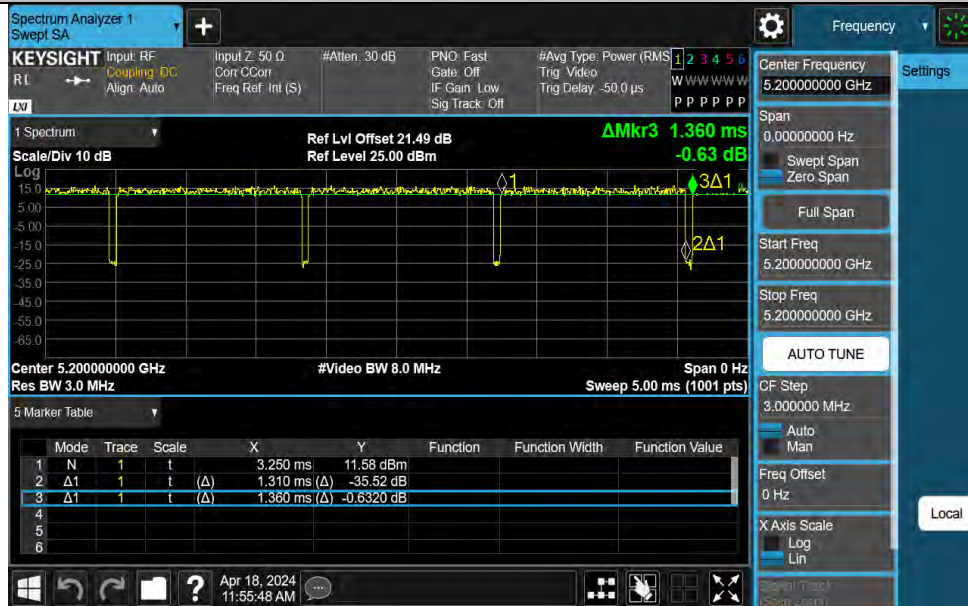
### NTNV-11AC20MIMO-Ant2-5180



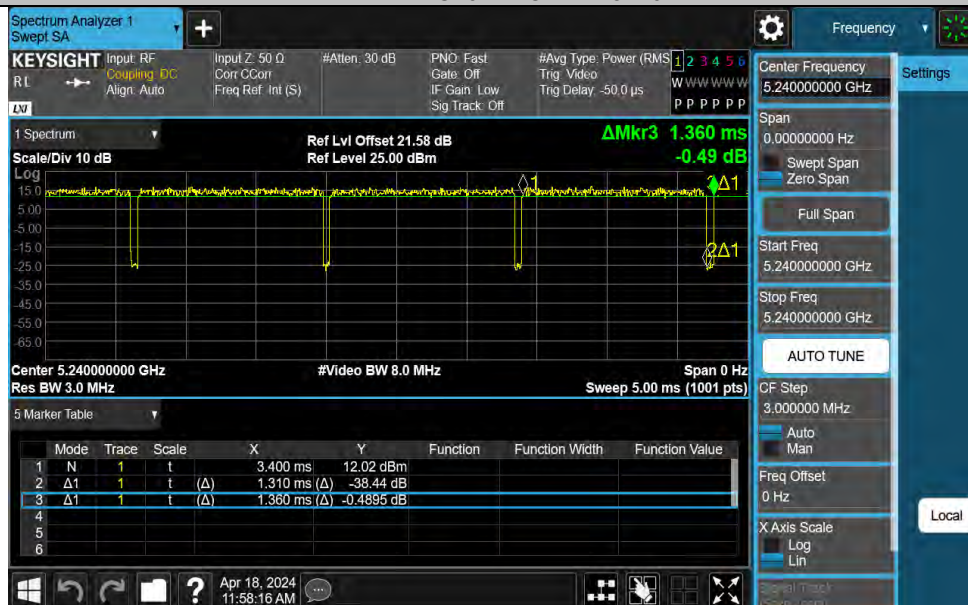
### NTNV-11AC20MIMO-Ant1-5200



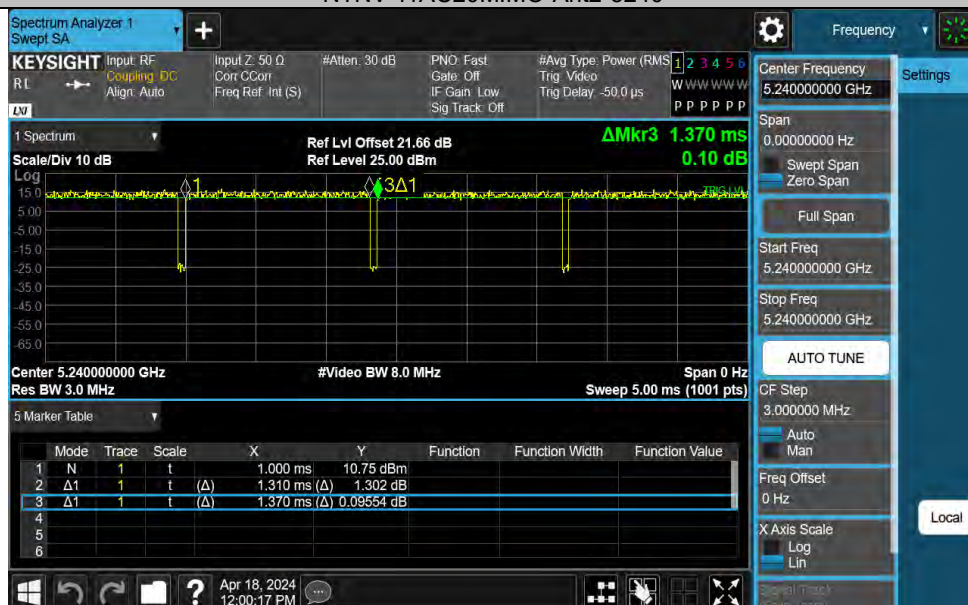
### NTNV-11AC20MIMO-Ant2-5200



### NTNV-11AC20MIMO-Ant1-5240

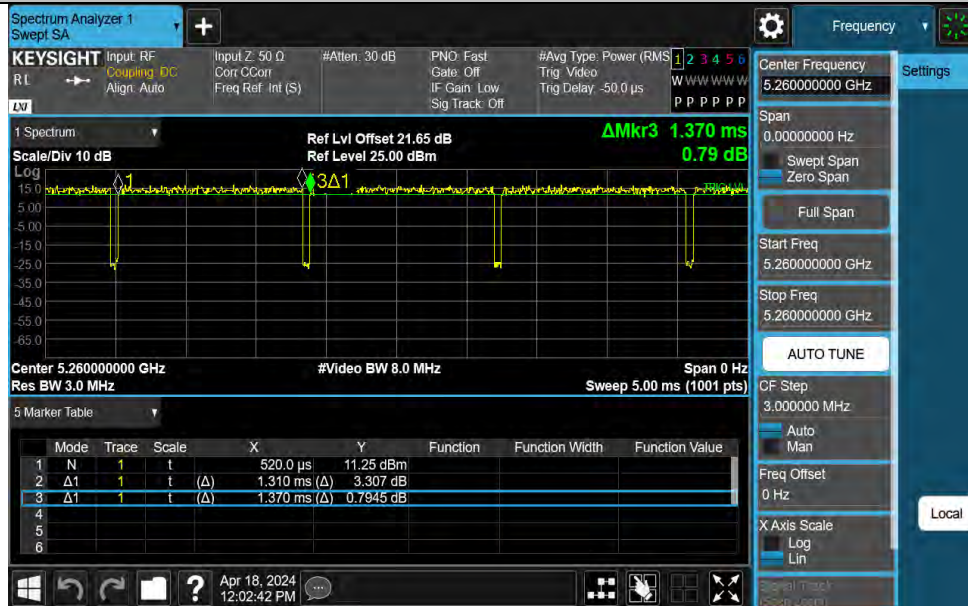


### NTNV-11AC20MIMO-Ant2-5240

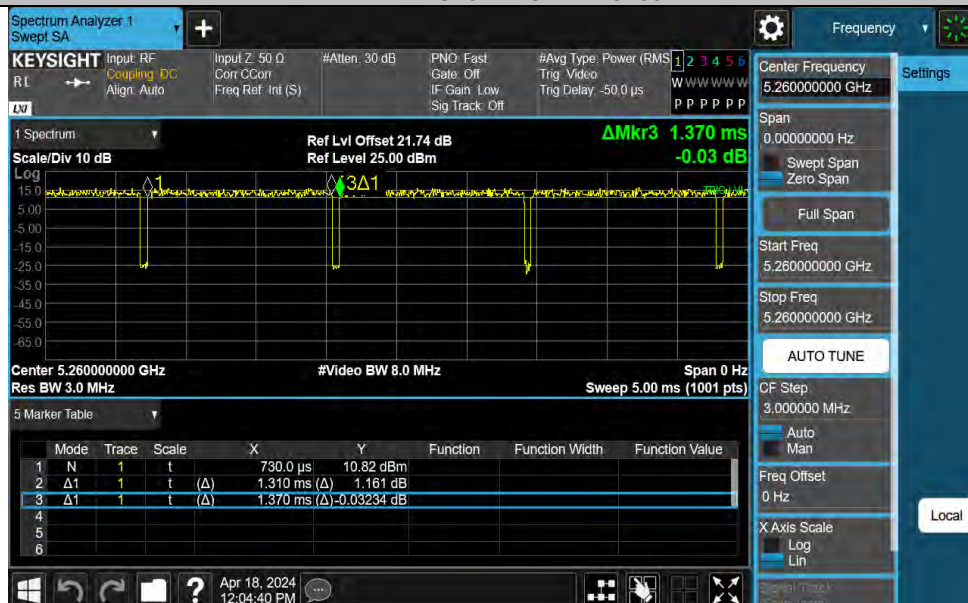




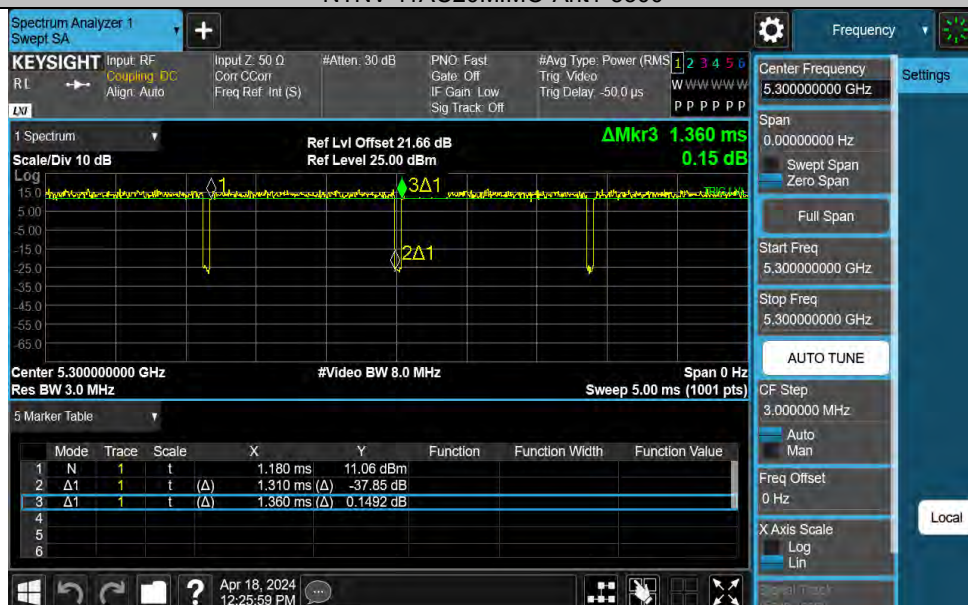
### NTNV-11AC20MIMO-Ant1-5260



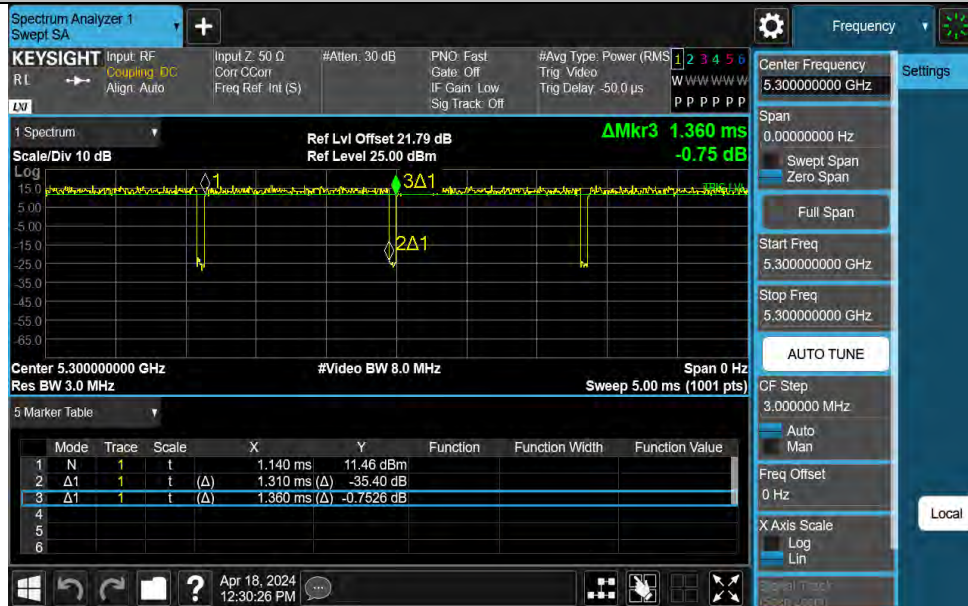
### NTNV-11AC20MIMO-Ant2-5260



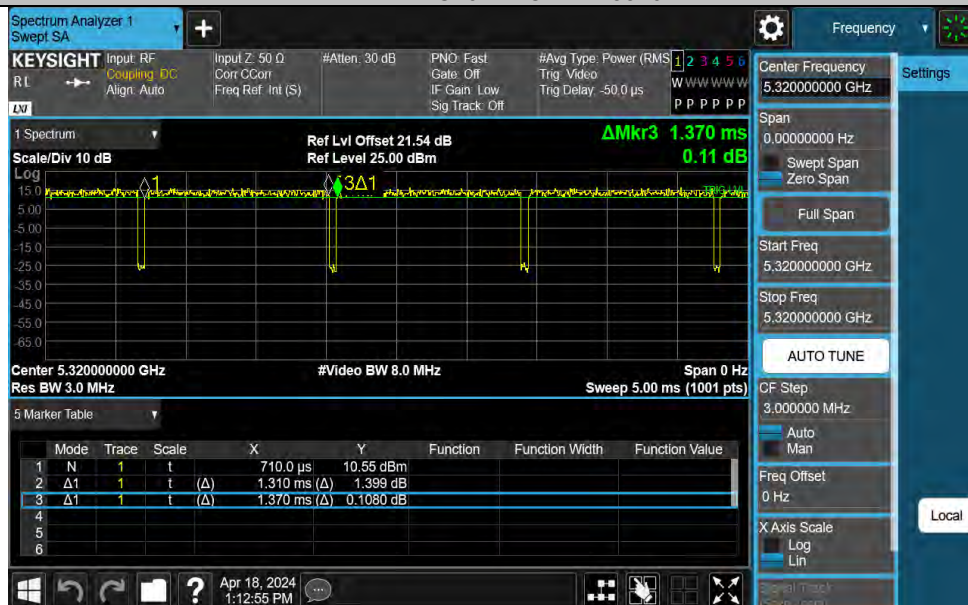
### NTNV-11AC20MIMO-Ant1-5300



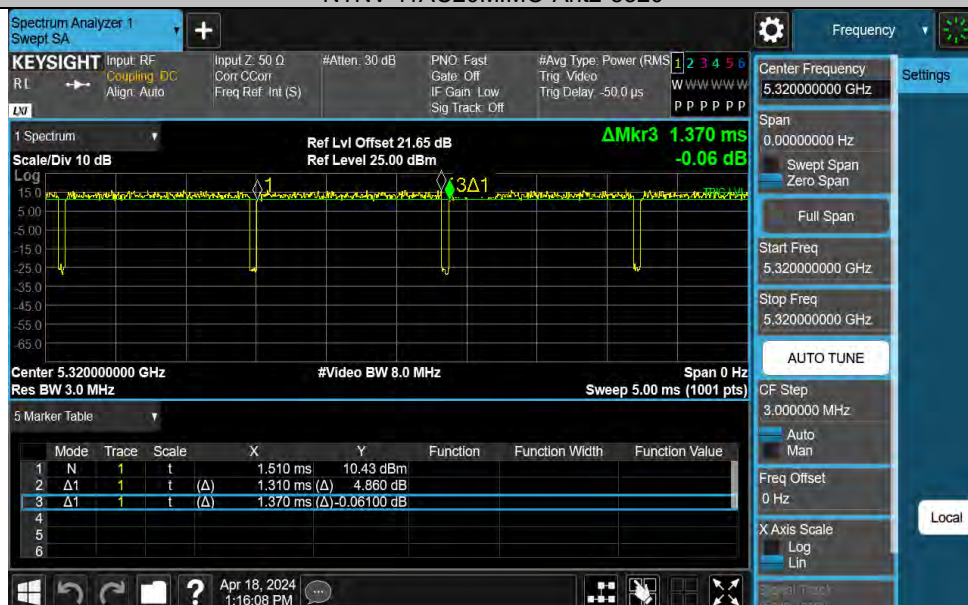
### NTNV-11AC20MIMO-Ant2-5300



### NTNV-11AC20MIMO-Ant1-5320

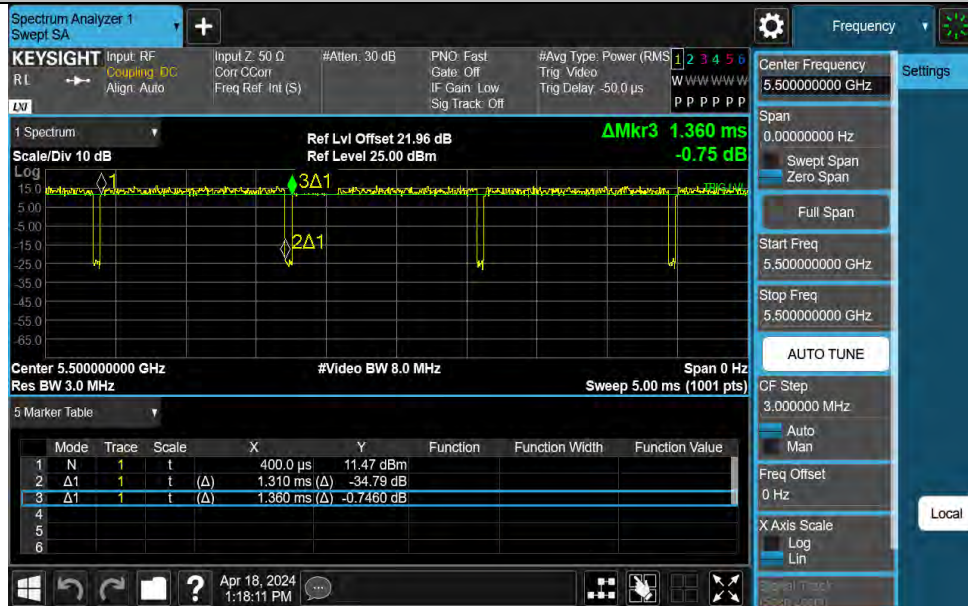


### NTNV-11AC20MIMO-Ant2-5320

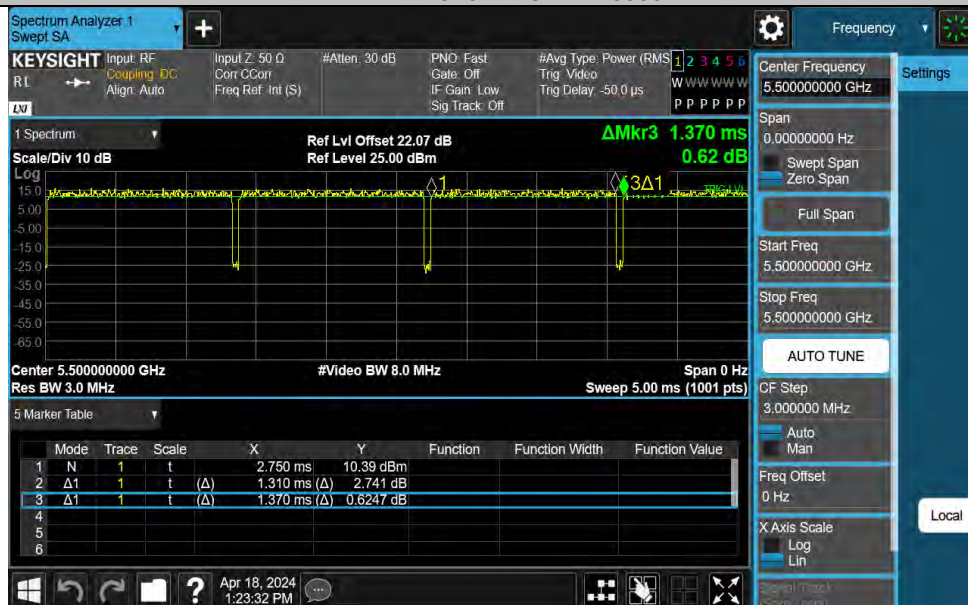




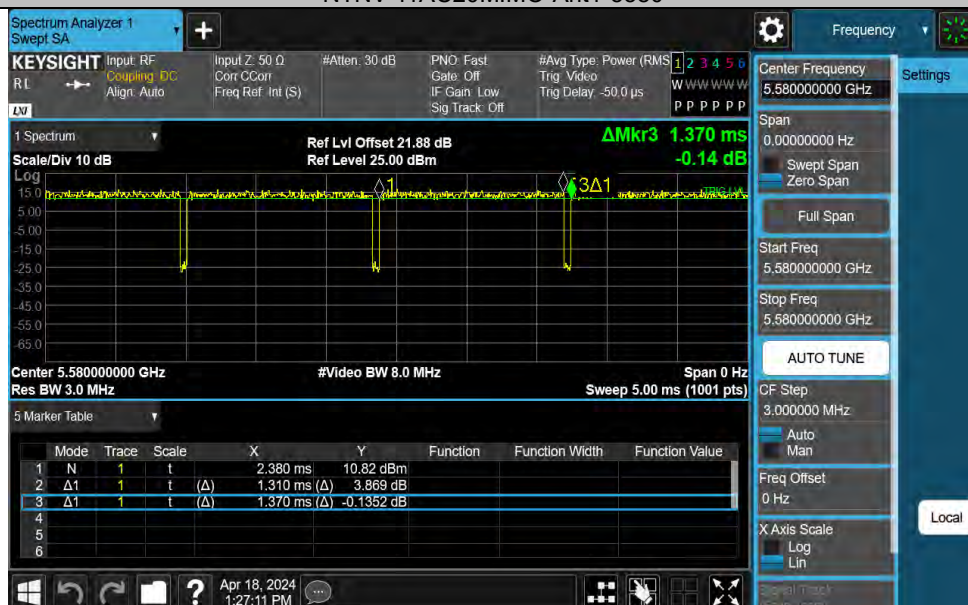
### NTNV-11AC20MIMO-Ant1-5500



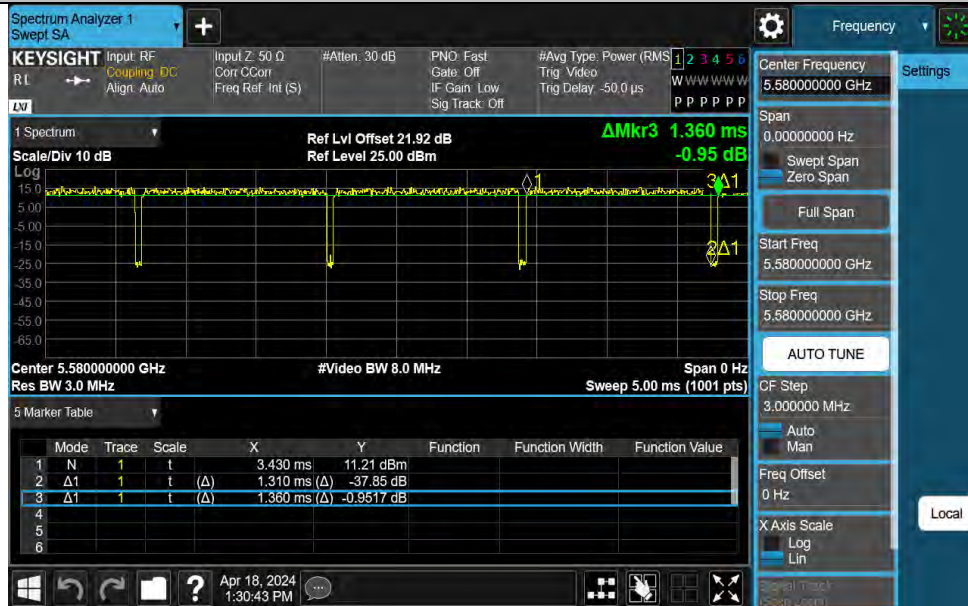
### NTNV-11AC20MIMO-Ant2-5500



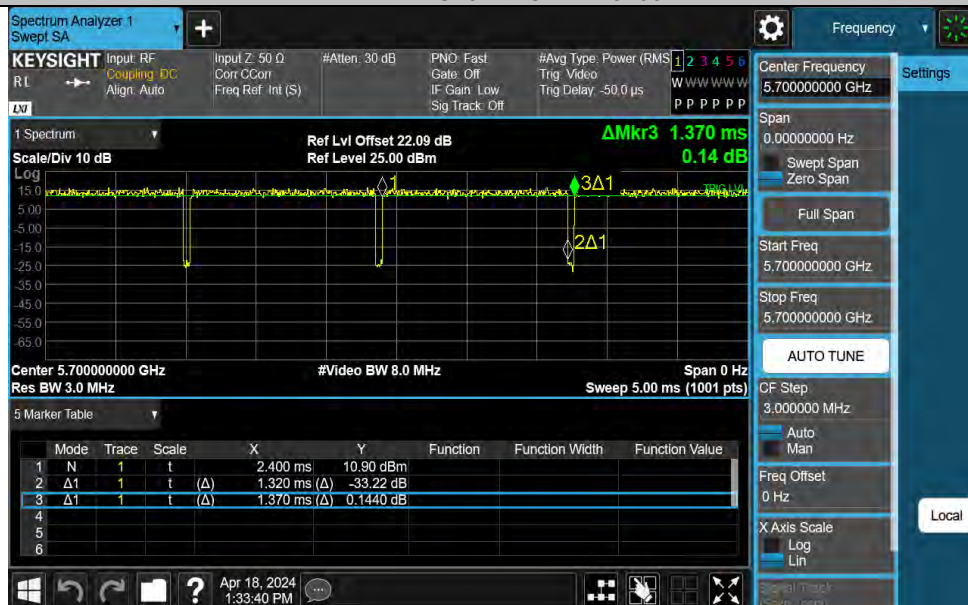
### NTNV-11AC20MIMO-Ant1-5580



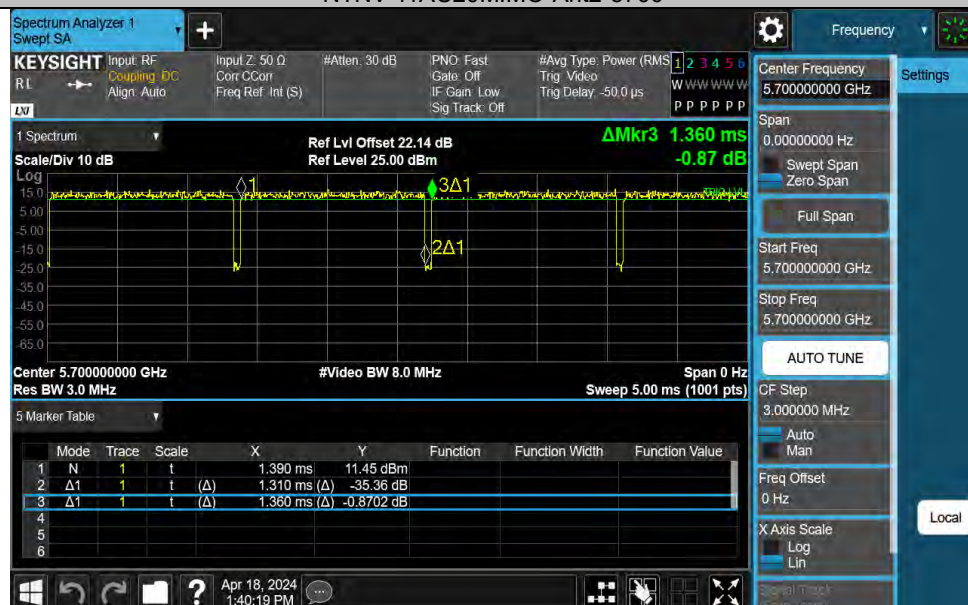
### NTNV-11AC20MIMO-Ant2-5580



### NTNV-11AC20MIMO-Ant1-5700

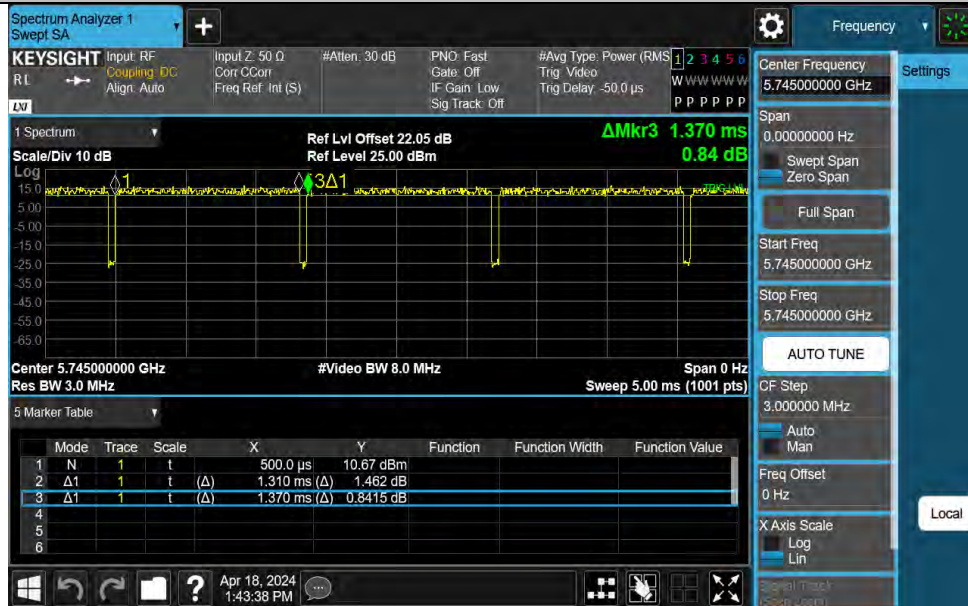


### NTNV-11AC20MIMO-Ant2-5700





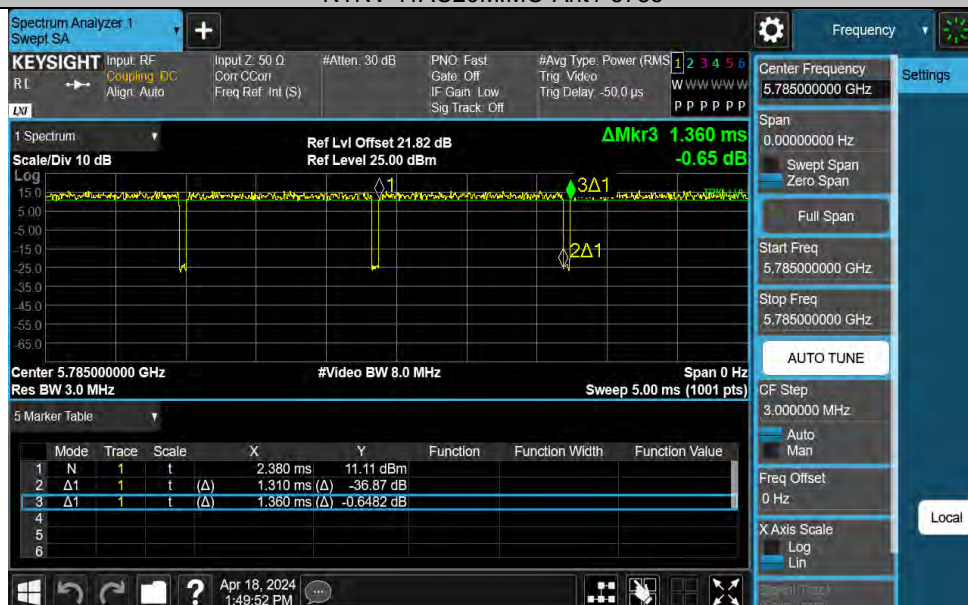
### NTNV-11AC20MIMO-Ant1-5745



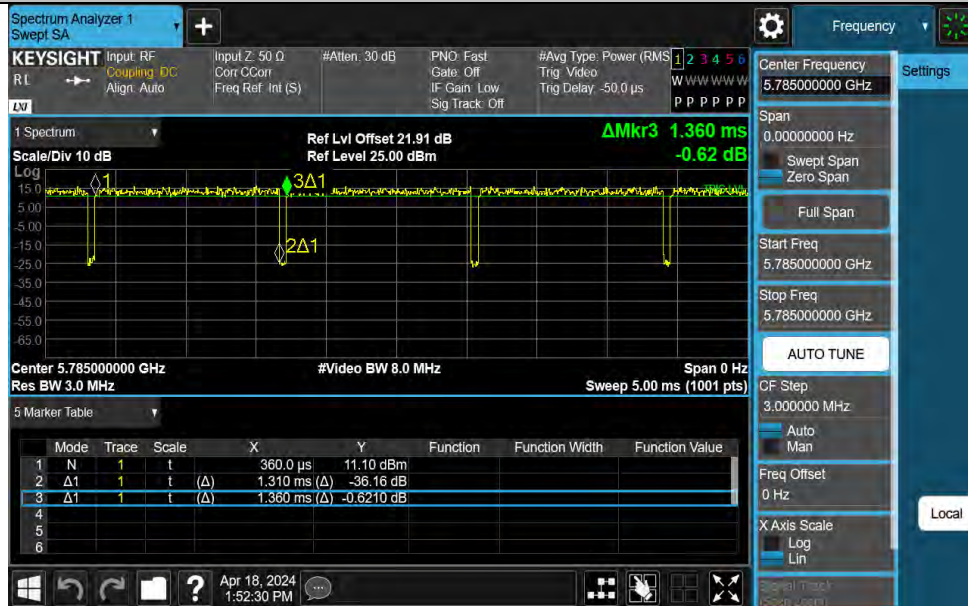
### NTNV-11AC20MIMO-Ant2-5745



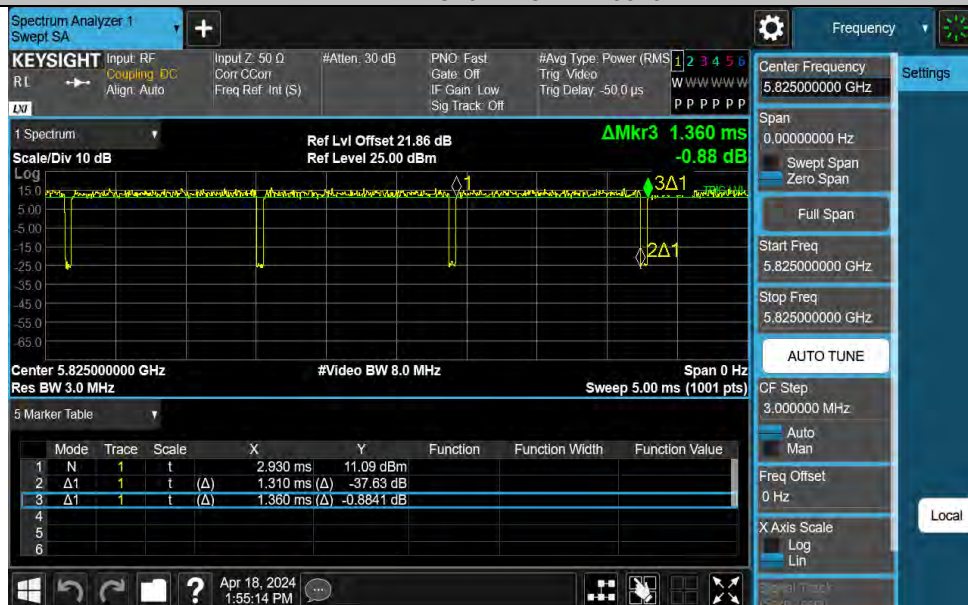
### NTNV-11AC20MIMO-Ant1-5785



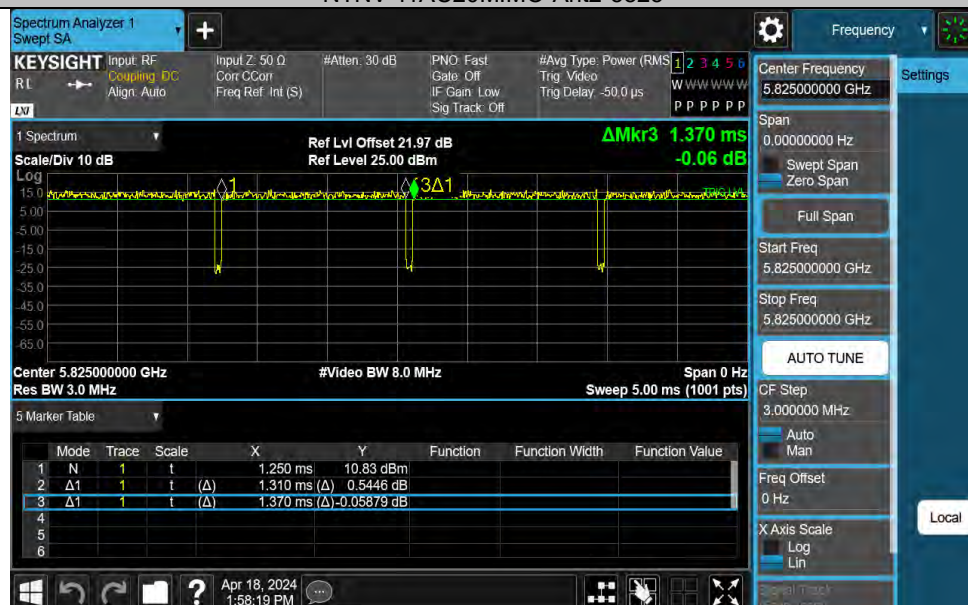
### NTNV-11AC20MIMO-Ant2-5785



### NTNV-11AC20MIMO-Ant1-5825

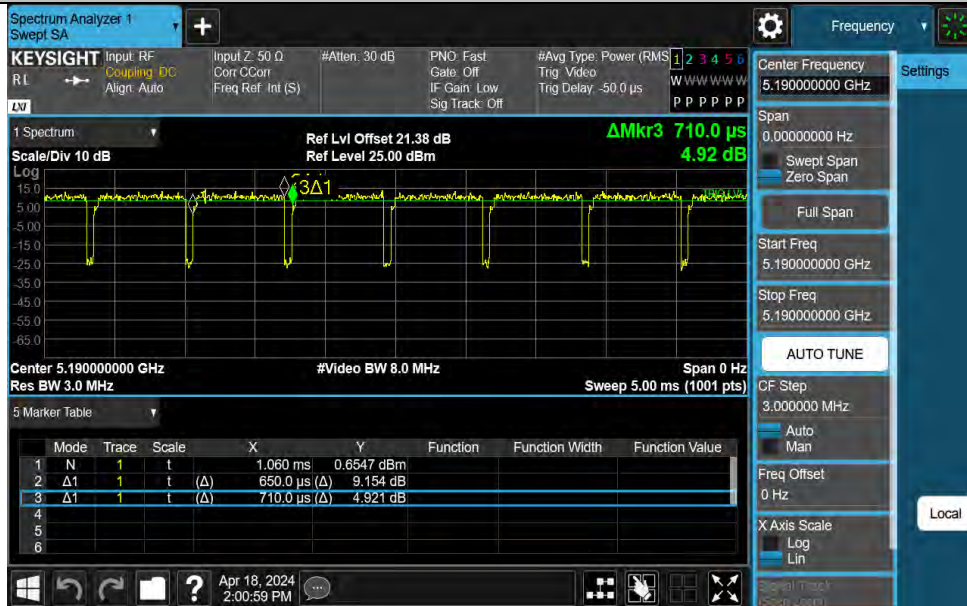


### NTNV-11AC20MIMO-Ant2-5825

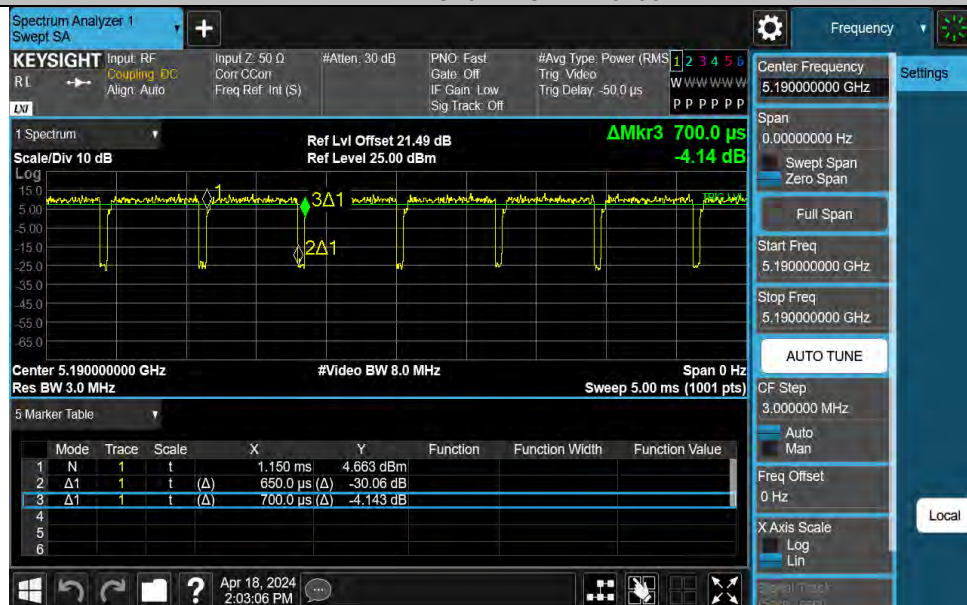




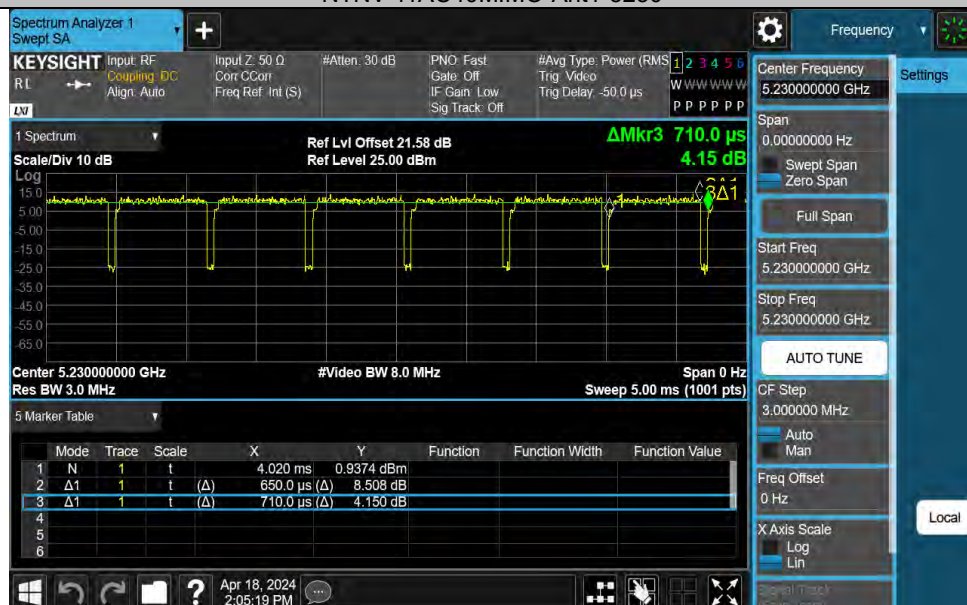
### NTNV-11AC40MIMO-Ant1-5190



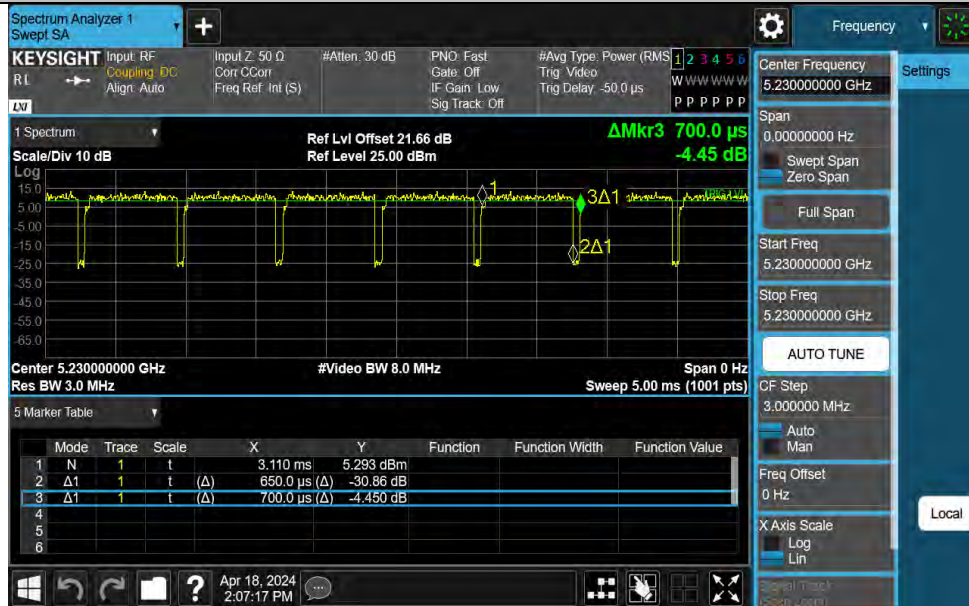
### NTNV-11AC40MIMO-Ant2-5190



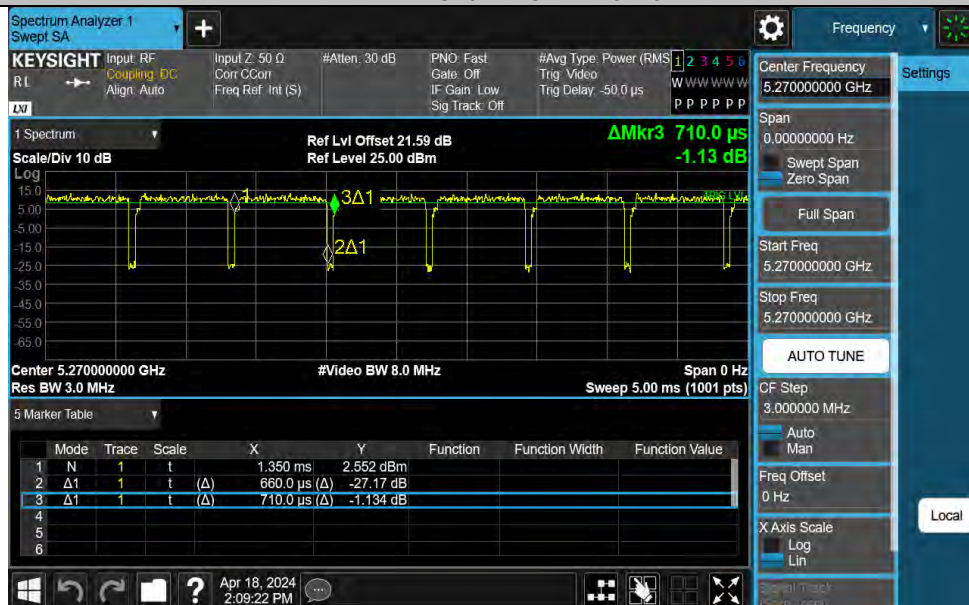
### NTNV-11AC40MIMO-Ant1-5230



### NTNV-11AC40MIMO-Ant2-5230



### NTNV-11AC40MIMO-Ant1-5270



### NTNV-11AC40MIMO-Ant2-5270

