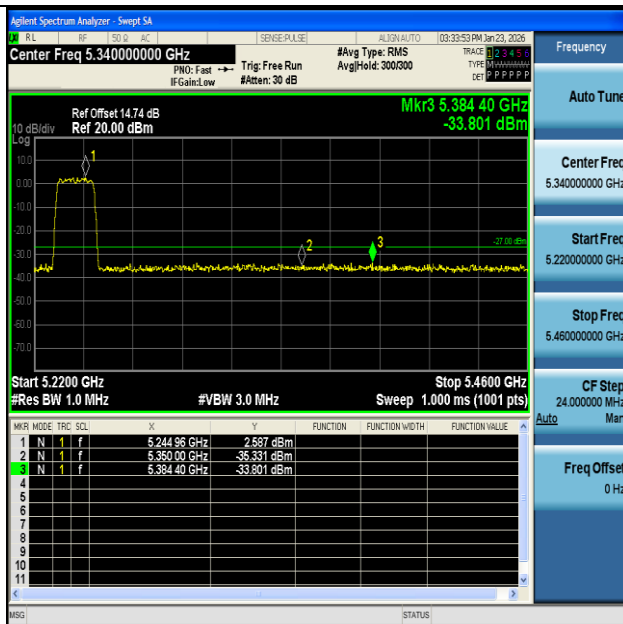
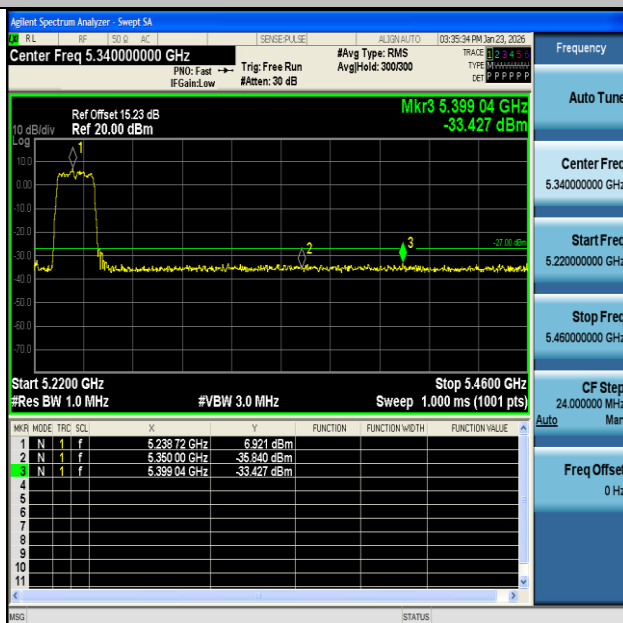




11N20MIMO-Ant1-5240-PASS

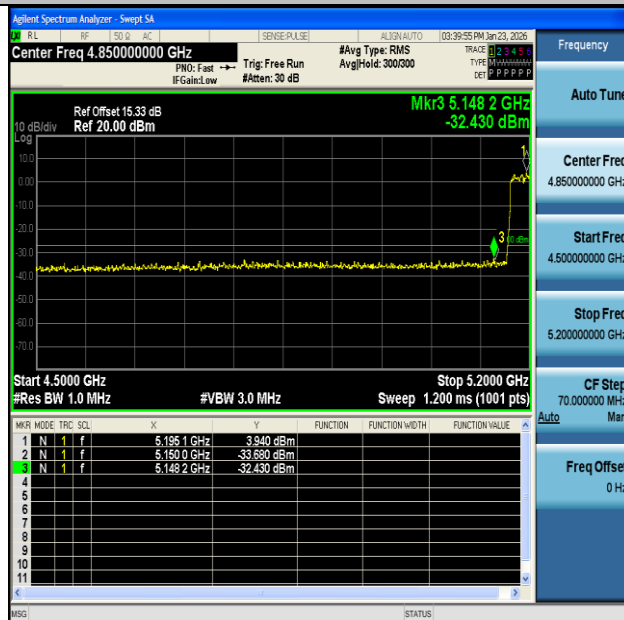


11N20MIMO-Ant2-5240-PASS



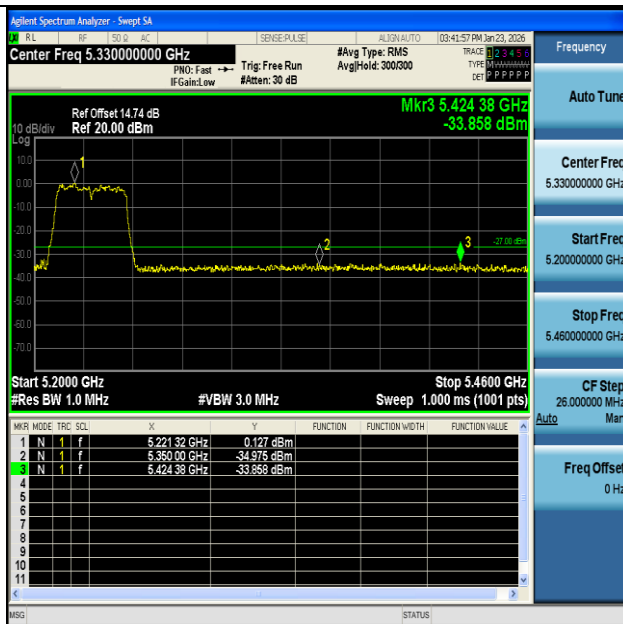


11N40MIMO-Ant1-5190-PASS

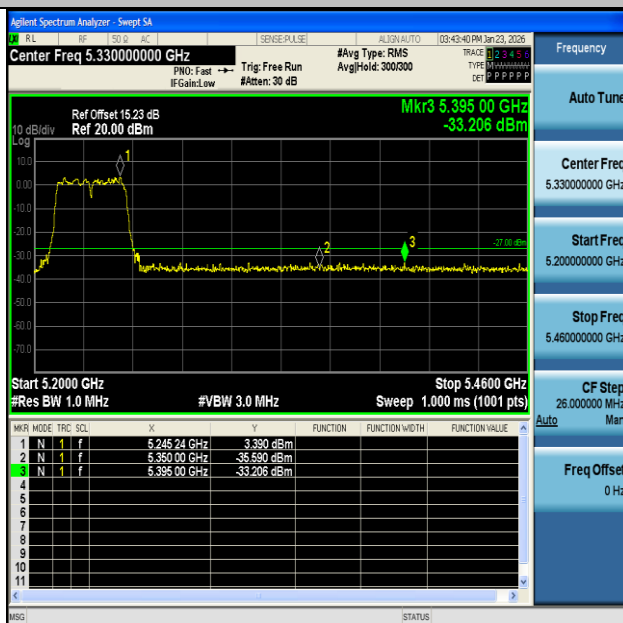


11N40MIMO-Ant2-5190-PASS



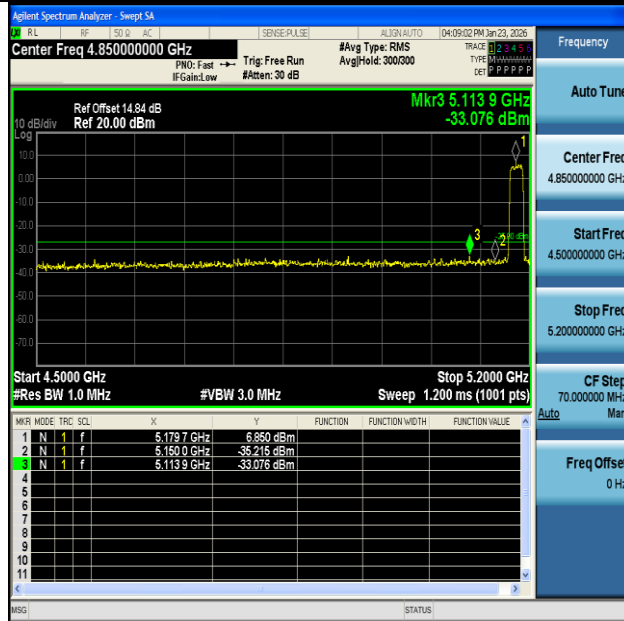


11N40MIMO-Ant1-5230-PASS

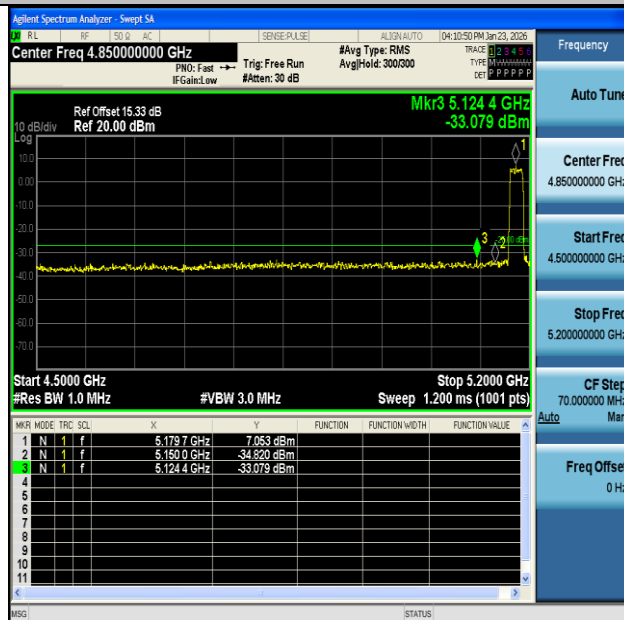


11N40MIMO-Ant2-5230-PASS



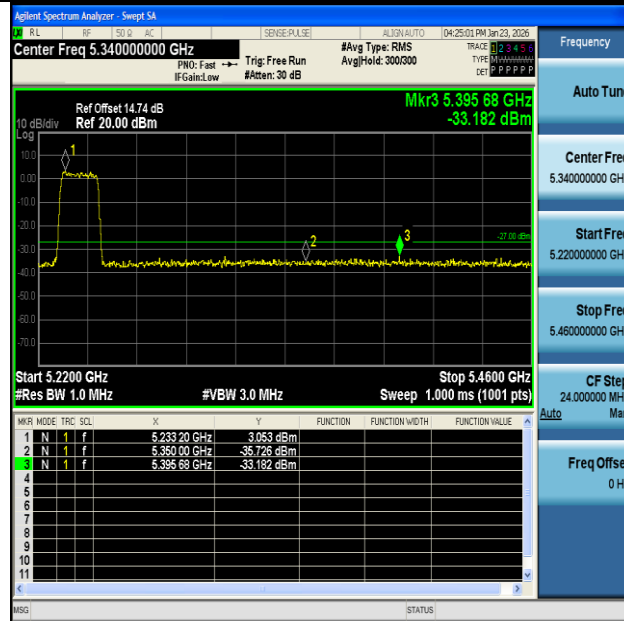


11AC20MIMO-Ant1-5180-PASS

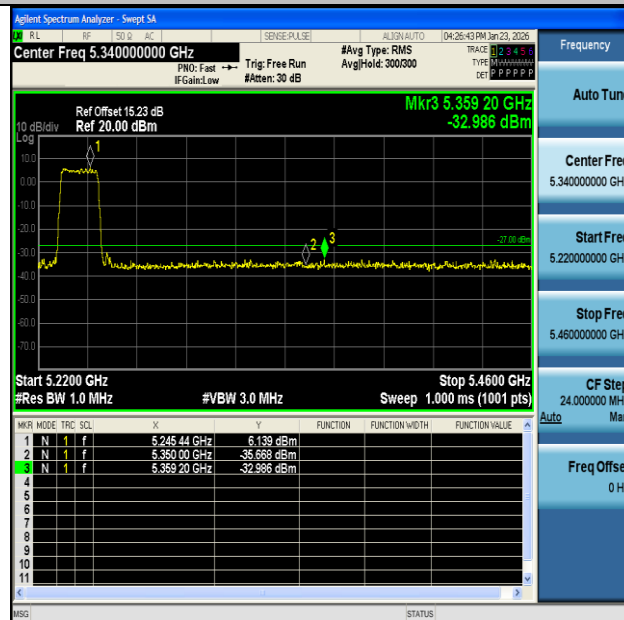


11AC20MIMO-Ant2-5180-PASS





11AC20MIMO-Ant1-5240-PASS

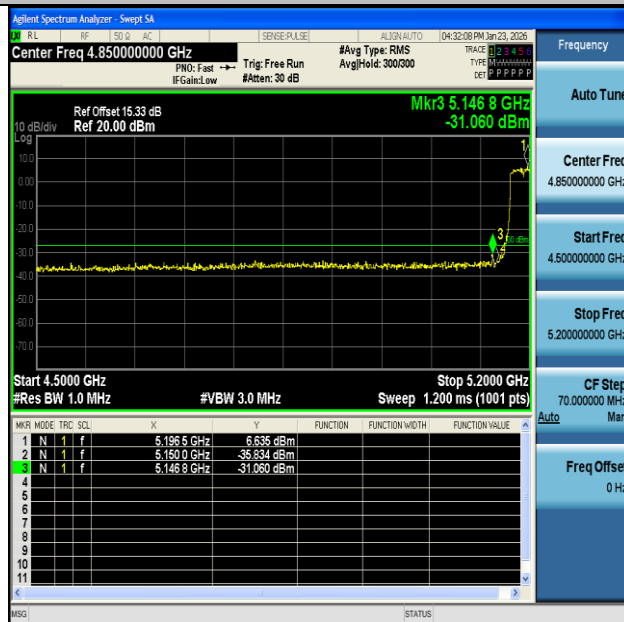


11AC20MIMO-Ant2-5240-PASS



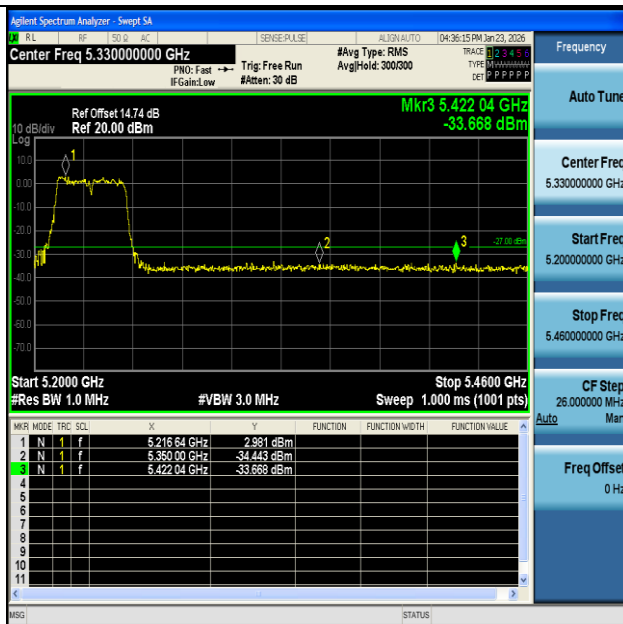


11AC40MIMO-Ant1-5190-PASS

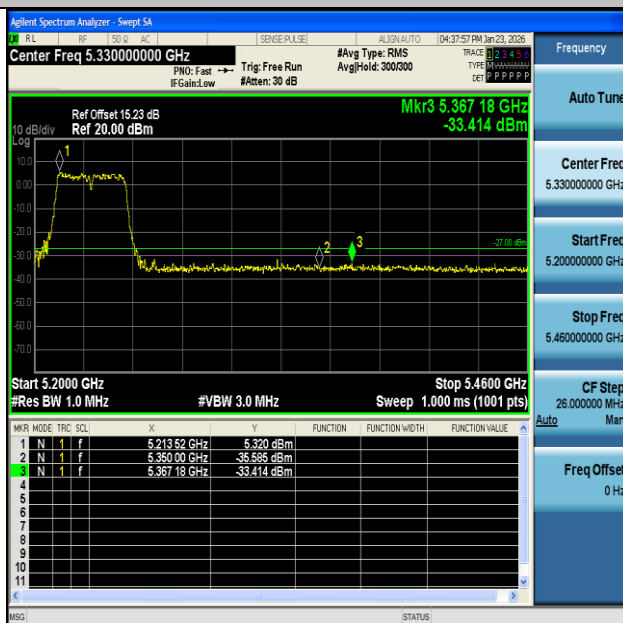


11AC40MIMO-Ant2-5190-PASS



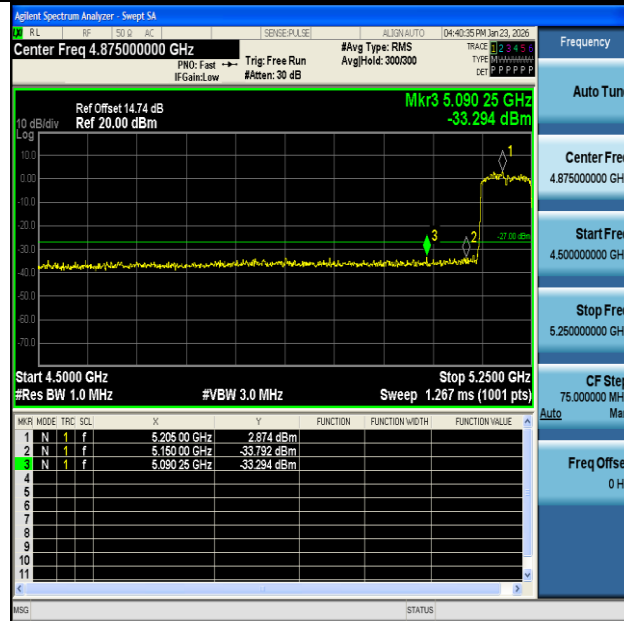


11AC40MIMO-Ant1-5230-PASS

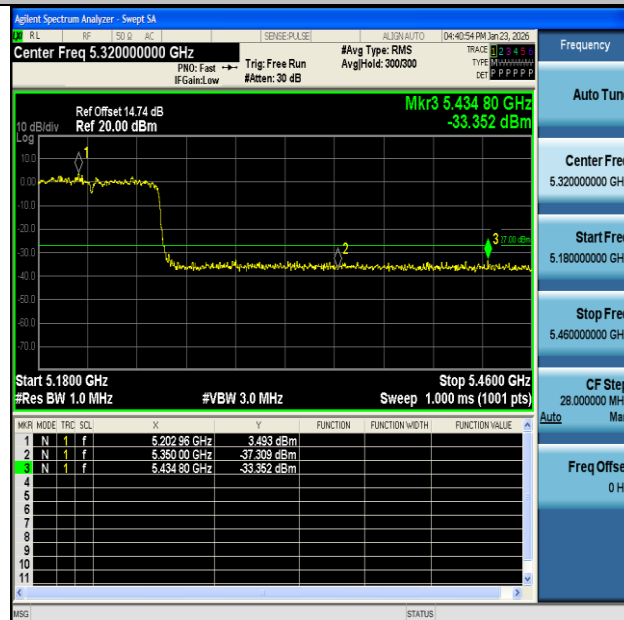


11AC40MIMO-Ant2-5230-PASS



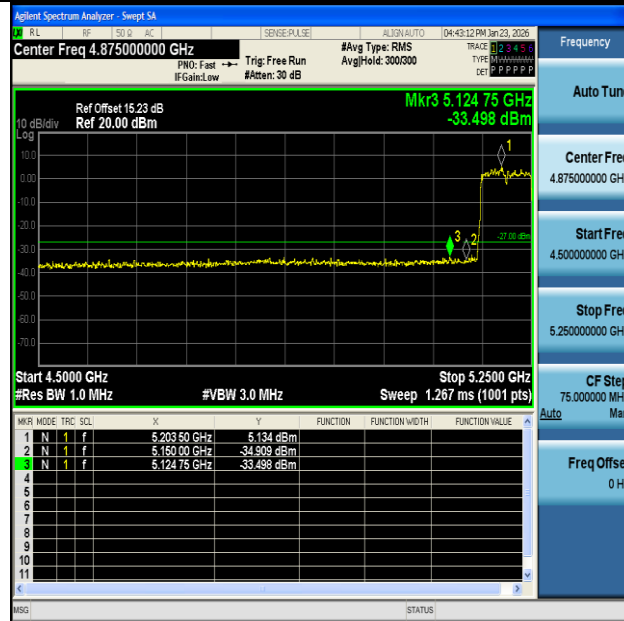


11AC80MIMO-Ant1-5210-PASS

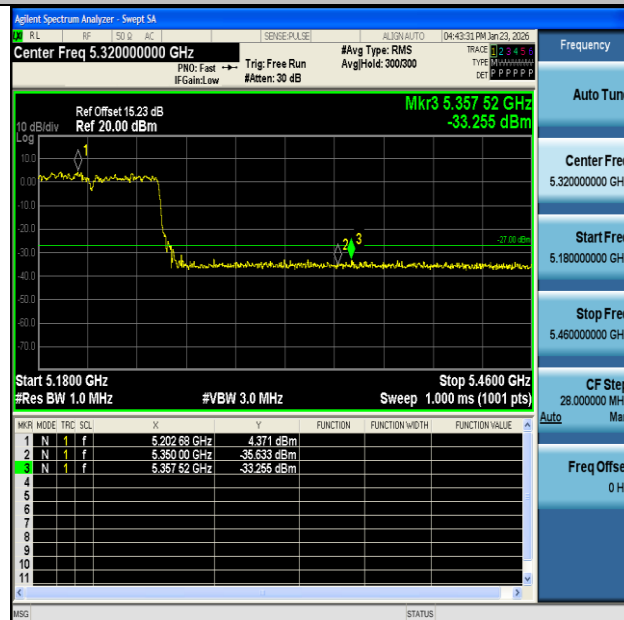


11AC80MIMO-Ant1-5210-PASS





11AC80MIMO-Ant2-5210-PASS



11AC80MIMO-Ant2-5210-PASS





## Appendix E: Frequency Stability

### Test Result

#### Ant1

| Frequency<br>(MHz) | Enviroment<br>Temperature<br>(Degree) | Voltage<br>(VAC) | Measured<br>Frequency<br>(MHz) | Limit Range<br>(MHz) | Test<br>Results |
|--------------------|---------------------------------------|------------------|--------------------------------|----------------------|-----------------|
| 5180               | 20                                    | 132              | 5180.005129                    | 5150 – 5250          | PASS            |
| 5180               | 20                                    | 108              | 5179.969335                    | 5150 – 5250          | PASS            |
| 5180               | 50                                    | 120              | 5180.034933                    | 5150 – 5250          | PASS            |
| 5180               | 40                                    | 120              | 5179.961207                    | 5150 – 5250          | PASS            |
| 5180               | 30                                    | 120              | 5179.944016                    | 5150 – 5250          | PASS            |
| 5180               | 20                                    | 120              | 5179.953366                    | 5150 – 5250          | PASS            |
| 5180               | 10                                    | 120              | 5179.926704                    | 5150 – 5250          | PASS            |
| 5180               | 0                                     | 120              | 5179.968161                    | 5150 – 5250          | PASS            |
| 5180               | -10                                   | 120              | 5180.093015                    | 5150 – 5250          | PASS            |
| 5180               | -20                                   | 120              | 5179.977630                    | 5150 – 5250          | PASS            |
| 5180               | -30                                   | 120              | 5179.939434                    | 5150 – 5250          | PASS            |

#### Ant2

| Frequency<br>(MHz) | Enviroment<br>Temperature<br>(Degree) | Voltage<br>(VAC) | Measured<br>Frequency<br>(MHz) | Limit Range<br>(MHz) | Test<br>Results |
|--------------------|---------------------------------------|------------------|--------------------------------|----------------------|-----------------|
| 5180               | 20                                    | 132              | 5179.943117                    | 5150 – 5250          | PASS            |
| 5180               | 20                                    | 108              | 5180.089708                    | 5150 – 5250          | PASS            |
| 5180               | 50                                    | 120              | 5179.927032                    | 5150 – 5250          | PASS            |
| 5180               | 40                                    | 120              | 5180.079981                    | 5150 – 5250          | PASS            |
| 5180               | 30                                    | 120              | 5179.955466                    | 5150 – 5250          | PASS            |
| 5180               | 20                                    | 120              | 5180.093140                    | 5150 – 5250          | PASS            |
| 5180               | 10                                    | 120              | 5180.076612                    | 5150 – 5250          | PASS            |
| 5180               | 0                                     | 120              | 5179.939233                    | 5150 – 5250          | PASS            |
| 5180               | -10                                   | 120              | 5180.015180                    | 5150 – 5250          | PASS            |
| 5180               | -20                                   | 120              | 5179.904034                    | 5150 – 5250          | PASS            |
| 5180               | -30                                   | 120              | 5179.974530                    | 5150 – 5250          | PASS            |





#### Ant1

| Frequency<br>(MHz) | Enviroment<br>Temperature<br>(Degree) | Voltage<br>(VAC) | Measured<br>Frequency<br>(MHz) | Limit Range<br>(MHz) | Test<br>Results |
|--------------------|---------------------------------------|------------------|--------------------------------|----------------------|-----------------|
| 5200               | 20                                    | 132              | 5199.946412                    | 5150 – 5250          | PASS            |
| 5200               | 20                                    | 108              | 5200.094176                    | 5150 – 5250          | PASS            |
| 5200               | 50                                    | 120              | 5200.039637                    | 5150 – 5250          | PASS            |
| 5200               | 40                                    | 120              | 5199.934464                    | 5150 – 5250          | PASS            |
| 5200               | 30                                    | 120              | 5200.037124                    | 5150 – 5250          | PASS            |
| 5200               | 20                                    | 120              | 5200.046432                    | 5150 – 5250          | PASS            |
| 5200               | 10                                    | 120              | 5199.944760                    | 5150 – 5250          | PASS            |
| 5200               | 0                                     | 120              | 5199.947695                    | 5150 – 5250          | PASS            |
| 5200               | -10                                   | 120              | 5199.921535                    | 5150 – 5250          | PASS            |
| 5200               | -20                                   | 120              | 5200.068697                    | 5150 – 5250          | PASS            |
| 5200               | -30                                   | 120              | 5200.019136                    | 5150 – 5250          | PASS            |

#### Ant2

| Frequency<br>(MHz) | Enviroment<br>Temperature<br>(Degree) | Voltage<br>(VAC) | Measured<br>Frequency<br>(MHz) | Limit Range<br>(MHz) | Test<br>Results |
|--------------------|---------------------------------------|------------------|--------------------------------|----------------------|-----------------|
| 5200               | 20                                    | 132              | 5200.015771                    | 5150 – 5250          | PASS            |
| 5200               | 20                                    | 108              | 5200.084972                    | 5150 – 5250          | PASS            |
| 5200               | 50                                    | 120              | 5199.970996                    | 5150 – 5250          | PASS            |
| 5200               | 40                                    | 120              | 5200.057669                    | 5150 – 5250          | PASS            |
| 5200               | 30                                    | 120              | 5199.983715                    | 5150 – 5250          | PASS            |
| 5200               | 20                                    | 120              | 5200.020240                    | 5150 – 5250          | PASS            |
| 5200               | 10                                    | 120              | 5200.055100                    | 5150 – 5250          | PASS            |
| 5200               | 0                                     | 120              | 5199.999311                    | 5150 – 5250          | PASS            |
| 5200               | -10                                   | 120              | 5199.942525                    | 5150 – 5250          | PASS            |
| 5200               | -20                                   | 120              | 5200.051667                    | 5150 – 5250          | PASS            |
| 5200               | -30                                   | 120              | 5199.901170                    | 5150 – 5250          | PASS            |





**Ant1**

| Frequency<br>(MHz) | Enviroment<br>Temperature<br>(Degree) | Voltage<br>(VAC) | Measured<br>Frequency<br>(MHz) | Limit Range<br>(MHz) | Test<br>Results |
|--------------------|---------------------------------------|------------------|--------------------------------|----------------------|-----------------|
| 5240               | 20                                    | 132              | 5240.022422                    | 5150 – 5250          | PASS            |
| 5240               | 20                                    | 108              | 5239.979973                    | 5150 – 5250          | PASS            |
| 5240               | 50                                    | 120              | 5239.911140                    | 5150 – 5250          | PASS            |
| 5240               | 40                                    | 120              | 5240.011221                    | 5150 – 5250          | PASS            |
| 5240               | 30                                    | 120              | 5240.076001                    | 5150 – 5250          | PASS            |
| 5240               | 20                                    | 120              | 5240.097196                    | 5150 – 5250          | PASS            |
| 5240               | 10                                    | 120              | 5239.964981                    | 5150 – 5250          | PASS            |
| 5240               | 0                                     | 120              | 5239.934266                    | 5150 – 5250          | PASS            |
| 5240               | -10                                   | 120              | 5239.964559                    | 5150 – 5250          | PASS            |
| 5240               | -20                                   | 120              | 5240.005501                    | 5150 – 5250          | PASS            |
| 5240               | -30                                   | 120              | 5239.949387                    | 5150 – 5250          | PASS            |

**Ant2**

| Frequency<br>(MHz) | Enviroment<br>Temperature<br>(Degree) | Voltage<br>(VAC) | Measured<br>Frequency<br>(MHz) | Limit Range<br>(MHz) | Test<br>Results |
|--------------------|---------------------------------------|------------------|--------------------------------|----------------------|-----------------|
| 5240               | 20                                    | 132              | 5240.092594                    | 5150 – 5250          | PASS            |
| 5240               | 20                                    | 108              | 5240.034917                    | 5150 – 5250          | PASS            |
| 5240               | 50                                    | 120              | 5239.995319                    | 5150 – 5250          | PASS            |
| 5240               | 40                                    | 120              | 5239.907488                    | 5150 – 5250          | PASS            |
| 5240               | 30                                    | 120              | 5240.094972                    | 5150 – 5250          | PASS            |
| 5240               | 20                                    | 120              | 5239.992698                    | 5150 – 5250          | PASS            |
| 5240               | 10                                    | 120              | 5240.010046                    | 5150 – 5250          | PASS            |
| 5240               | 0                                     | 120              | 5239.900120                    | 5150 – 5250          | PASS            |
| 5240               | -10                                   | 120              | 5239.941660                    | 5150 – 5250          | PASS            |
| 5240               | -20                                   | 120              | 5239.973675                    | 5150 – 5250          | PASS            |
| 5240               | -30                                   | 120              | 5240.081840                    | 5150 – 5250          | PASS            |





#### Ant1

| Frequency<br>(MHz) | Enviroment<br>Temperature<br>(Degree) | Voltage<br>(VAC) | Measured<br>Frequency<br>(MHz) | Limit Range<br>(MHz) | Test<br>Results |
|--------------------|---------------------------------------|------------------|--------------------------------|----------------------|-----------------|
| 5190               | 20                                    | 132              | 5190.087750                    | 5150 – 5250          | PASS            |
| 5190               | 20                                    | 108              | 5189.930950                    | 5150 – 5250          | PASS            |
| 5190               | 50                                    | 120              | 5189.928768                    | 5150 – 5250          | PASS            |
| 5190               | 40                                    | 120              | 5189.971984                    | 5150 – 5250          | PASS            |
| 5190               | 30                                    | 120              | 5189.981768                    | 5150 – 5250          | PASS            |
| 5190               | 20                                    | 120              | 5190.087799                    | 5150 – 5250          | PASS            |
| 5190               | 10                                    | 120              | 5190.093155                    | 5150 – 5250          | PASS            |
| 5190               | 0                                     | 120              | 5190.012565                    | 5150 – 5250          | PASS            |
| 5190               | -10                                   | 120              | 5190.021701                    | 5150 – 5250          | PASS            |
| 5190               | -20                                   | 120              | 5189.987662                    | 5150 – 5250          | PASS            |
| 5190               | -30                                   | 120              | 5190.027504                    | 5150 – 5250          | PASS            |

#### Ant2

| Frequency<br>(MHz) | Enviroment<br>Temperature<br>(Degree) | Voltage<br>(VAC) | Measured<br>Frequency<br>(MHz) | Limit Range<br>(MHz) | Test<br>Results |
|--------------------|---------------------------------------|------------------|--------------------------------|----------------------|-----------------|
| 5190               | 20                                    | 132              | 5190.030027                    | 5150 – 5250          | PASS            |
| 5190               | 20                                    | 108              | 5190.061777                    | 5150 – 5250          | PASS            |
| 5190               | 50                                    | 120              | 5190.024711                    | 5150 – 5250          | PASS            |
| 5190               | 40                                    | 120              | 5190.032731                    | 5150 – 5250          | PASS            |
| 5190               | 30                                    | 120              | 5190.095051                    | 5150 – 5250          | PASS            |
| 5190               | 20                                    | 120              | 5189.994575                    | 5150 – 5250          | PASS            |
| 5190               | 10                                    | 120              | 5190.030037                    | 5150 – 5250          | PASS            |
| 5190               | 0                                     | 120              | 5189.953970                    | 5150 – 5250          | PASS            |
| 5190               | -10                                   | 120              | 5190.046604                    | 5150 – 5250          | PASS            |
| 5190               | -20                                   | 120              | 5189.936429                    | 5150 – 5250          | PASS            |
| 5190               | -30                                   | 120              | 5189.912859                    | 5150 – 5250          | PASS            |





#### Ant1

| Frequency<br>(MHz) | Enviroment<br>Temperature<br>(Degree) | Voltage<br>(VAC) | Measured<br>Frequency<br>(MHz) | Limit Range<br>(MHz) | Test<br>Results |
|--------------------|---------------------------------------|------------------|--------------------------------|----------------------|-----------------|
| 5230               | 20                                    | 132              | 5229.942115                    | 5150 – 5250          | PASS            |
| 5230               | 20                                    | 108              | 5229.909968                    | 5150 – 5250          | PASS            |
| 5230               | 50                                    | 120              | 5230.079754                    | 5150 – 5250          | PASS            |
| 5230               | 40                                    | 120              | 5230.049069                    | 5150 – 5250          | PASS            |
| 5230               | 30                                    | 120              | 5230.053682                    | 5150 – 5250          | PASS            |
| 5230               | 20                                    | 120              | 5229.996703                    | 5150 – 5250          | PASS            |
| 5230               | 10                                    | 120              | 5230.037926                    | 5150 – 5250          | PASS            |
| 5230               | 0                                     | 120              | 5230.058278                    | 5150 – 5250          | PASS            |
| 5230               | -10                                   | 120              | 5230.070241                    | 5150 – 5250          | PASS            |
| 5230               | -20                                   | 120              | 5229.960882                    | 5150 – 5250          | PASS            |
| 5230               | -30                                   | 120              | 5229.926624                    | 5150 – 5250          | PASS            |

#### Ant2

| Frequency<br>(MHz) | Enviroment<br>Temperature<br>(Degree) | Voltage<br>(VAC) | Measured<br>Frequency<br>(MHz) | Limit Range<br>(MHz) | Test<br>Results |
|--------------------|---------------------------------------|------------------|--------------------------------|----------------------|-----------------|
| 5230               | 20                                    | 132              | 5229.962000                    | 5150 – 5250          | PASS            |
| 5230               | 20                                    | 108              | 5229.904677                    | 5150 – 5250          | PASS            |
| 5230               | 50                                    | 120              | 5229.999759                    | 5150 – 5250          | PASS            |
| 5230               | 40                                    | 120              | 5230.062056                    | 5150 – 5250          | PASS            |
| 5230               | 30                                    | 120              | 5230.094389                    | 5150 – 5250          | PASS            |
| 5230               | 20                                    | 120              | 5229.943975                    | 5150 – 5250          | PASS            |
| 5230               | 10                                    | 120              | 5230.009883                    | 5150 – 5250          | PASS            |
| 5230               | 0                                     | 120              | 5230.037175                    | 5150 – 5250          | PASS            |
| 5230               | -10                                   | 120              | 5229.925838                    | 5150 – 5250          | PASS            |
| 5230               | -20                                   | 120              | 5230.030330                    | 5150 – 5250          | PASS            |
| 5230               | -30                                   | 120              | 5230.000707                    | 5150 – 5250          | PASS            |





### Ant1

| Frequency<br>(MHz) | Enviroment<br>Temperature<br>(Degree) | Voltage<br>(VAC) | Measured<br>Frequency<br>(MHz) | Limit Range<br>(MHz) | Test<br>Results |
|--------------------|---------------------------------------|------------------|--------------------------------|----------------------|-----------------|
| 5210               | 20                                    | 132              | 5210.091640                    | 5150 – 5250          | PASS            |
| 5210               | 20                                    | 108              | 5210.043473                    | 5150 – 5250          | PASS            |
| 5210               | 50                                    | 120              | 5210.032886                    | 5150 – 5250          | PASS            |
| 5210               | 40                                    | 120              | 5210.027515                    | 5150 – 5250          | PASS            |
| 5210               | 30                                    | 120              | 5210.042971                    | 5150 – 5250          | PASS            |
| 5210               | 20                                    | 120              | 5209.971419                    | 5150 – 5250          | PASS            |
| 5210               | 10                                    | 120              | 5210.047780                    | 5150 – 5250          | PASS            |
| 5210               | 0                                     | 120              | 5209.997254                    | 5150 – 5250          | PASS            |
| 5210               | -10                                   | 120              | 5209.970826                    | 5150 – 5250          | PASS            |
| 5210               | -20                                   | 120              | 5209.927968                    | 5150 – 5250          | PASS            |
| 5210               | -30                                   | 120              | 5210.061009                    | 5150 – 5250          | PASS            |

### Ant2

| Frequency<br>(MHz) | Enviroment<br>Temperature<br>(Degree) | Voltage<br>(VAC) | Measured<br>Frequency<br>(MHz) | Limit Range<br>(MHz) | Test<br>Results |
|--------------------|---------------------------------------|------------------|--------------------------------|----------------------|-----------------|
| 5210               | 20                                    | 132              | 5209.960213                    | 5150 – 5250          | PASS            |
| 5210               | 20                                    | 108              | 5210.026727                    | 5150 – 5250          | PASS            |
| 5210               | 50                                    | 120              | 5210.017396                    | 5150 – 5250          | PASS            |
| 5210               | 40                                    | 120              | 5209.944325                    | 5150 – 5250          | PASS            |
| 5210               | 30                                    | 120              | 5210.072901                    | 5150 – 5250          | PASS            |
| 5210               | 20                                    | 120              | 5210.099086                    | 5150 – 5250          | PASS            |
| 5210               | 10                                    | 120              | 5210.089456                    | 5150 – 5250          | PASS            |
| 5210               | 0                                     | 120              | 5209.973485                    | 5150 – 5250          | PASS            |
| 5210               | -10                                   | 120              | 5209.941942                    | 5150 – 5250          | PASS            |
| 5210               | -20                                   | 120              | 5210.041055                    | 5150 – 5250          | PASS            |
| 5210               | -30                                   | 120              | 5210.093554                    | 5150 – 5250          | PASS            |





## Appendix F: Conducted Spurious Emission

### Test Result

| TestMode   | Antenna | Frequency[MHz] | FreqRange [MHz] | Max. Fre [MHz] | Max. Level [dBm] | Limit [dBm] | Verdict |
|------------|---------|----------------|-----------------|----------------|------------------|-------------|---------|
| 11A        | Ant1    | 5180           | 30~5140         | 5071.1         | -50.8            | ≤-27        | PASS    |
| 11A        | Ant2    | 5180           | 30~5140         | 246.57         | -50.35           | ≤-27        | PASS    |
| 11A        | Ant1    | 5180           | 5360~40000      | 6927.4         | -52.2            | ≤-27        | PASS    |
| 11A        | Ant2    | 5180           | 5360~40000      | 6993.2         | -53.58           | ≤-27        | PASS    |
| 11A        | Ant1    | 5200           | 30~5140         | 4634.55        | -50.57           | ≤-27        | PASS    |
| 11A        | Ant2    | 5200           | 30~5140         | 474.98         | -49.41           | ≤-27        | PASS    |
| 11A        | Ant1    | 5200           | 5360~40000      | 6982.8         | -52.19           | ≤-27        | PASS    |
| 11A        | Ant2    | 5200           | 5360~40000      | 6964.4         | -53.59           | ≤-27        | PASS    |
| 11A        | Ant1    | 5240           | 30~5140         | 4638.13        | -49.98           | ≤-27        | PASS    |
| 11A        | Ant2    | 5240           | 30~5140         | 321.69         | -50              | ≤-27        | PASS    |
| 11A        | Ant1    | 5240           | 5360~40000      | 6997.8         | -52.19           | ≤-27        | PASS    |
| 11A        | Ant2    | 5240           | 5360~40000      | 6912.4         | -53.48           | ≤-27        | PASS    |
| 11N20MIMO  | Ant1    | 5180           | 30~5140         | 4661.63        | -50.7            | ≤-27        | PASS    |
| 11N20MIMO  | Ant2    | 5180           | 30~5140         | 247.93         | -49.38           | ≤-27        | PASS    |
| 11N20MIMO  | Ant1    | 5180           | 5360~40000      | 6860.4         | -53.01           | ≤-27        | PASS    |
| 11N20MIMO  | Ant2    | 5180           | 5360~40000      | 6934.3         | -53.84           | ≤-27        | PASS    |
| 11N20MIMO  | Ant1    | 5200           | 30~5140         | 4672.71        | -50.94           | ≤-27        | PASS    |
| 11N20MIMO  | Ant2    | 5200           | 30~5140         | 190.7          | -49.6            | ≤-27        | PASS    |
| 11N20MIMO  | Ant1    | 5200           | 5360~40000      | 6951.7         | -52.92           | ≤-27        | PASS    |
| 11N20MIMO  | Ant2    | 5200           | 5360~40000      | 6995.5         | -53.44           | ≤-27        | PASS    |
| 11N20MIMO  | Ant1    | 5240           | 30~5140         | 4143.84        | -51.29           | ≤-27        | PASS    |
| 11N20MIMO  | Ant2    | 5240           | 30~5140         | 431.89         | -49.74           | ≤-27        | PASS    |
| 11N20MIMO  | Ant1    | 5240           | 5360~40000      | 6837.3         | -51.92           | ≤-27        | PASS    |
| 11N20MIMO  | Ant2    | 5240           | 5360~40000      | 6950.5         | -53.56           | ≤-27        | PASS    |
| 11N40MIMO  | Ant1    | 5190           | 30~5140         | 4657.38        | -50.16           | ≤-27        | PASS    |
| 11N40MIMO  | Ant2    | 5190           | 30~5140         | 136.2          | -49.7            | ≤-27        | PASS    |
| 11N40MIMO  | Ant1    | 5190           | 5360~40000      | 6995.5         | -52.47           | ≤-27        | PASS    |
| 11N40MIMO  | Ant2    | 5190           | 5360~40000      | 6798.1         | -53.67           | ≤-27        | PASS    |
| 11N40MIMO  | Ant1    | 5230           | 30~5140         | 3788.19        | -51.04           | ≤-27        | PASS    |
| 11N40MIMO  | Ant2    | 5230           | 30~5140         | 479.58         | -49.16           | ≤-27        | PASS    |
| 11N40MIMO  | Ant1    | 5230           | 5360~40000      | 6769.2         | -52.26           | ≤-27        | PASS    |
| 11N40MIMO  | Ant2    | 5230           | 5360~40000      | 6809.6         | -53.24           | ≤-27        | PASS    |
| 11AC20MIMO | Ant1    | 5180           | 30~5140         | 4649.2         | -50.57           | ≤-27        | PASS    |
| 11AC20MIMO | Ant2    | 5180           | 30~5140         | 321.86         | -49.77           | ≤-27        | PASS    |
| 11AC20MIMO | Ant1    | 5180           | 5360~40000      | 6985.1         | -52.24           | ≤-27        | PASS    |
| 11AC20MIMO | Ant2    | 5180           | 5360~40000      | 6651.5         | -53.24           | ≤-27        | PASS    |
| 11AC20MIMO | Ant1    | 5200           | 30~5140         | 4681.05        | -50.04           | ≤-27        | PASS    |





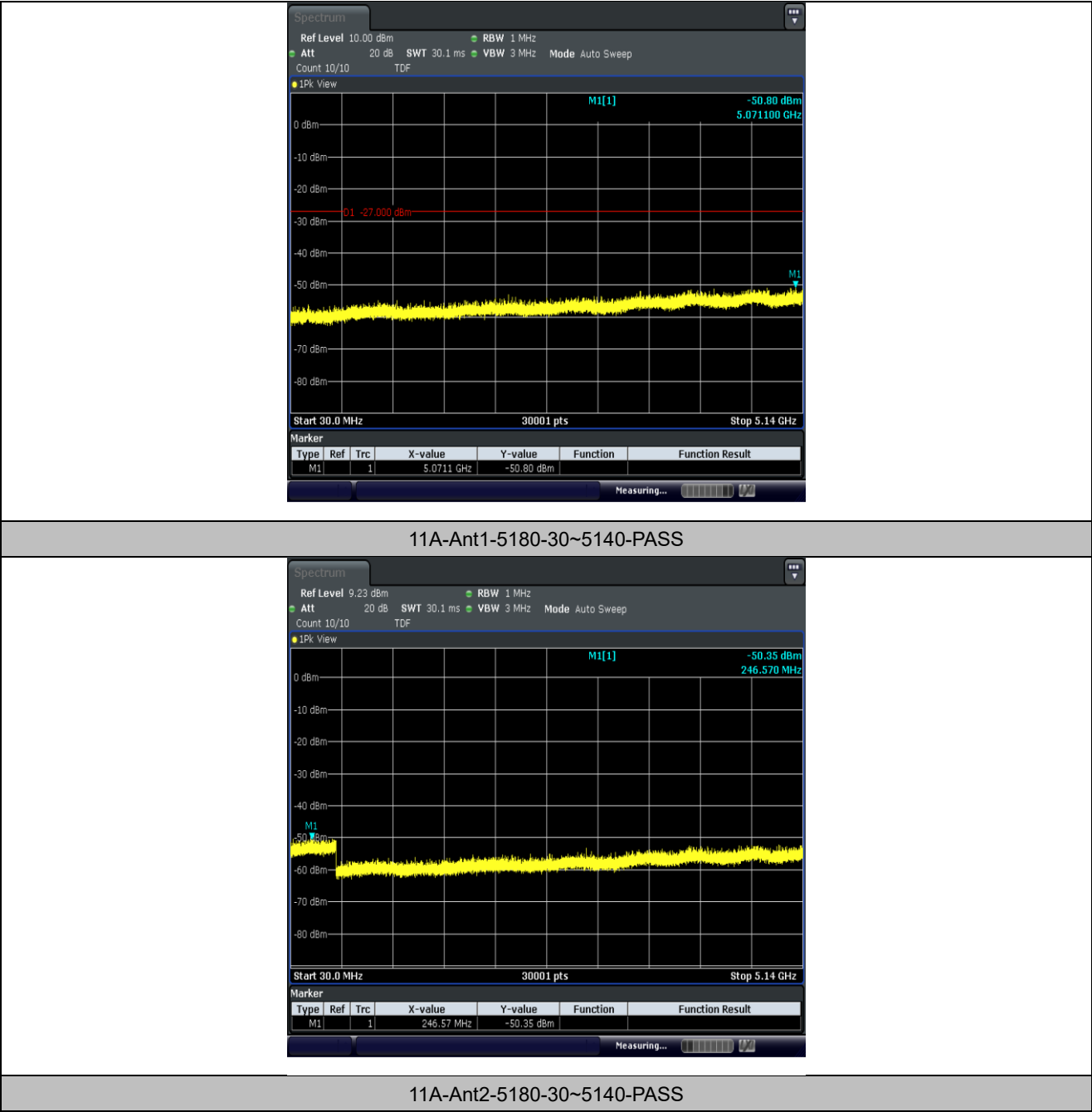
|            |      |      |            |         |        |            |      |
|------------|------|------|------------|---------|--------|------------|------|
| 11AC20MIMO | Ant2 | 5200 | 30~5140    | 467.15  | -49.12 | $\leq -27$ | PASS |
| 11AC20MIMO | Ant1 | 5200 | 5360~40000 | 6994.4  | -52.43 | $\leq -27$ | PASS |
| 11AC20MIMO | Ant2 | 5200 | 5360~40000 | 6982.8  | -53.12 | $\leq -27$ | PASS |
| 11AC20MIMO | Ant1 | 5240 | 30~5140    | 4665.21 | -50.6  | $\leq -27$ | PASS |
| 11AC20MIMO | Ant2 | 5240 | 30~5140    | 410.94  | -49.51 | $\leq -27$ | PASS |
| 11AC20MIMO | Ant1 | 5240 | 5360~40000 | 6994.4  | -52.77 | $\leq -27$ | PASS |
| 11AC20MIMO | Ant2 | 5240 | 5360~40000 | 6969    | -52.47 | $\leq -27$ | PASS |
| 11AC40MIMO | Ant1 | 5190 | 30~5140    | 5103.81 | -50.6  | $\leq -27$ | PASS |
| 11AC40MIMO | Ant2 | 5190 | 30~5140    | 248.96  | -49.21 | $\leq -27$ | PASS |
| 11AC40MIMO | Ant1 | 5190 | 5360~40000 | 6987.4  | -52.23 | $\leq -27$ | PASS |
| 11AC40MIMO | Ant2 | 5190 | 5360~40000 | 6865.1  | -53.08 | $\leq -27$ | PASS |
| 11AC40MIMO | Ant1 | 5230 | 30~5140    | 4603.21 | -51    | $\leq -27$ | PASS |
| 11AC40MIMO | Ant2 | 5230 | 30~5140    | 343.49  | -49.7  | $\leq -27$ | PASS |
| 11AC40MIMO | Ant1 | 5230 | 5360~40000 | 6671.1  | -53.13 | $\leq -27$ | PASS |
| 11AC40MIMO | Ant2 | 5230 | 5360~40000 | 6806.2  | -54.15 | $\leq -27$ | PASS |
| 11AC80MIMO | Ant1 | 5210 | 30~5140    | 4999.22 | -51.25 | $\leq -27$ | PASS |
| 11AC80MIMO | Ant2 | 5210 | 30~5140    | 413.49  | -49.51 | $\leq -27$ | PASS |
| 11AC80MIMO | Ant1 | 5210 | 5360~40000 | 6944.7  | -52.54 | $\leq -27$ | PASS |
| 11AC80MIMO | Ant2 | 5210 | 5360~40000 | 6922.8  | -53.65 | $\leq -27$ | PASS |

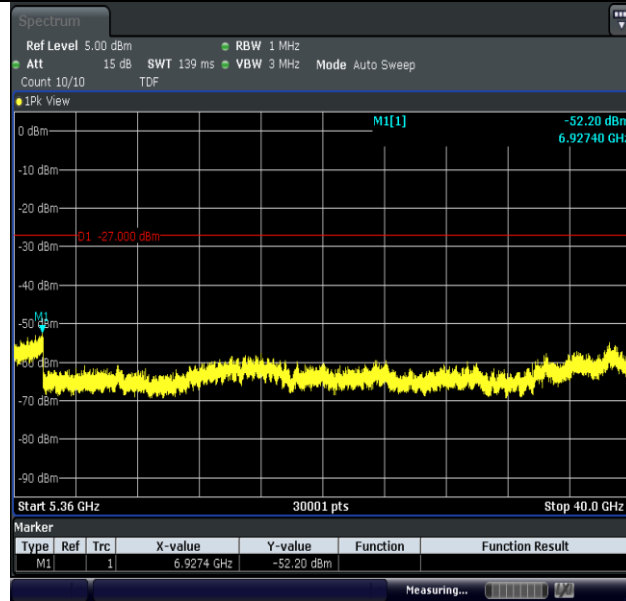
Note: offset(dB) in Reference test plots = cable loss(dB) + attenuator factor(dB); For spurious emissions plots from 30MHz to 40 GHz, the cable loss and attenuator factors have been set in the 'Input Correction' of the Spectrum Analyzer during the test.



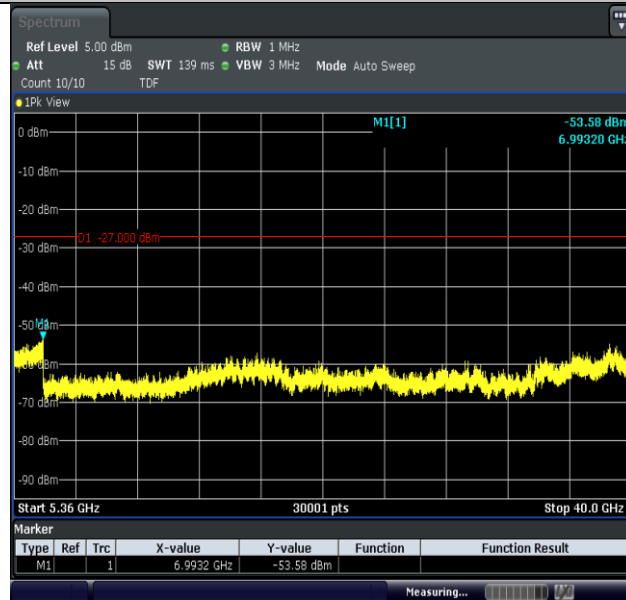


Test Graphs



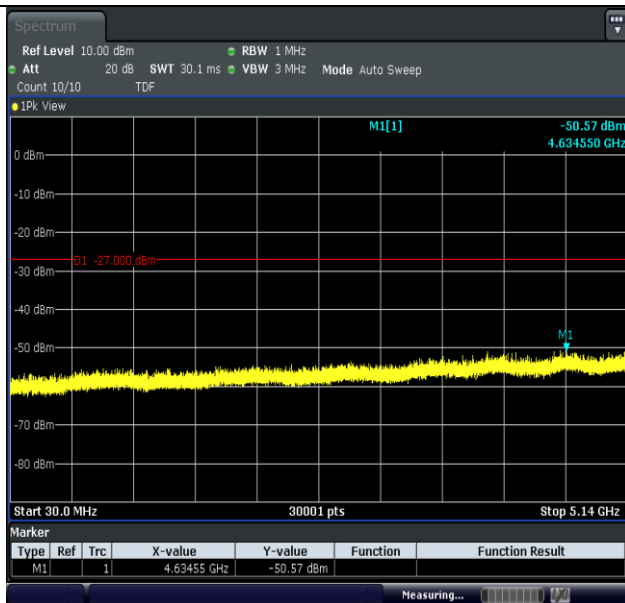


11A-Ant1-5180-5360~40000-PASS

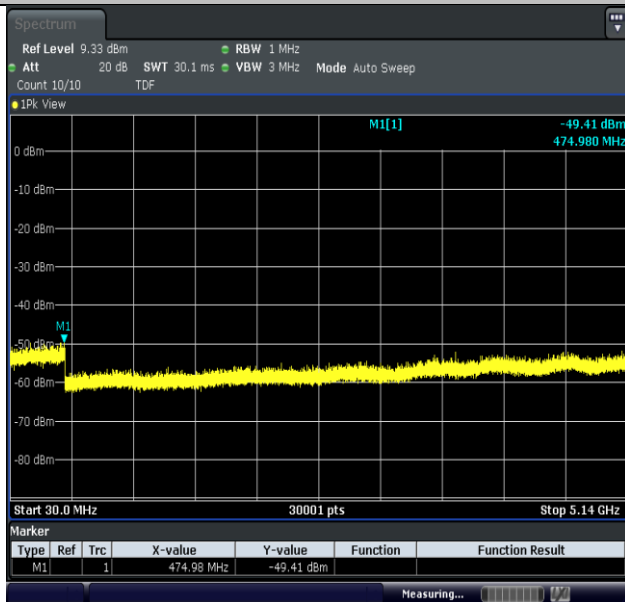


11A-Ant2-5180-5360~40000-PASS



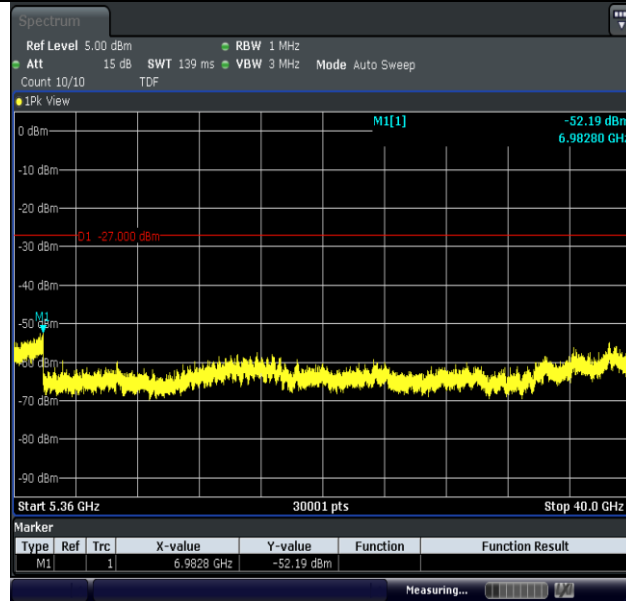


11A-Ant1-5200-30~5140-PASS

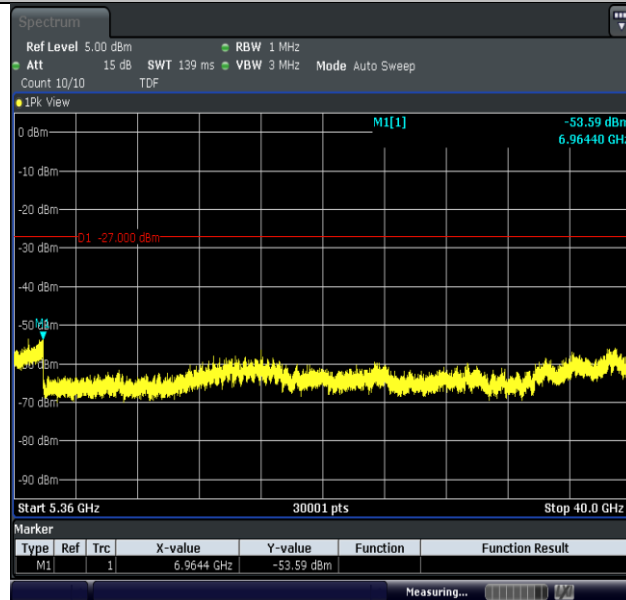


11A-Ant2-5200-30~5140-PASS



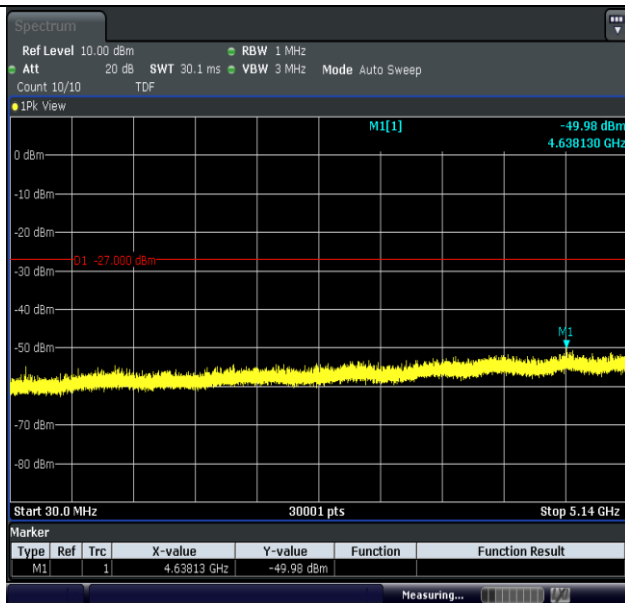


11A-Ant1-5200-5360~40000-PASS

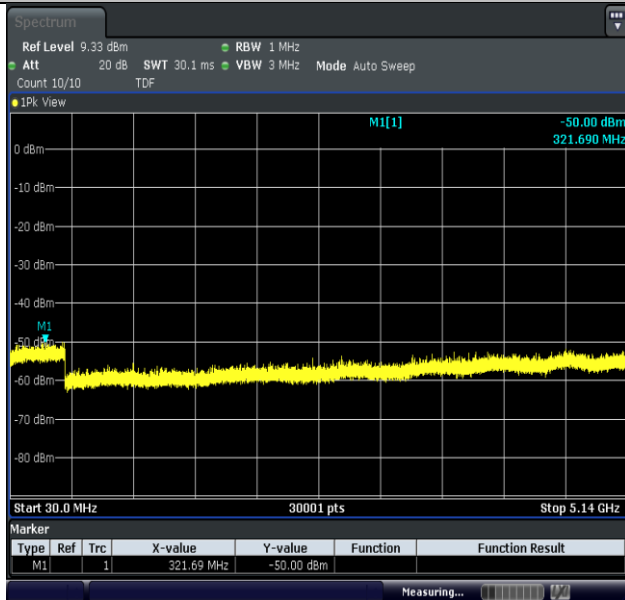


11A-Ant2-5200-5360~40000-PASS



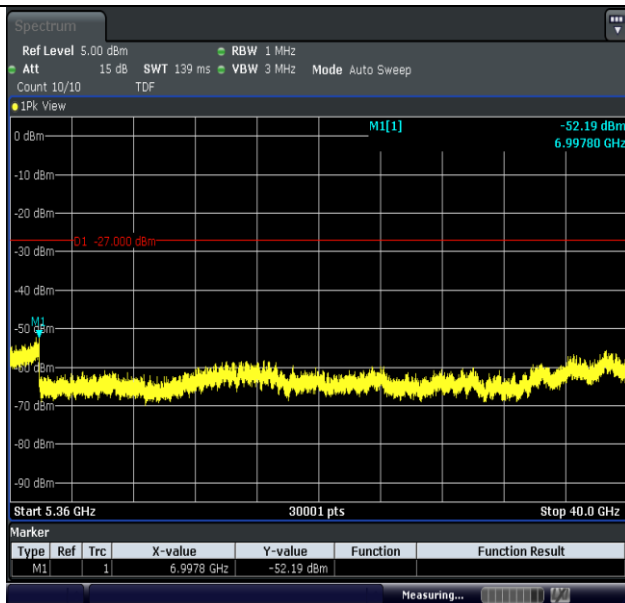


11A-Ant1-5240-30~5140-PASS

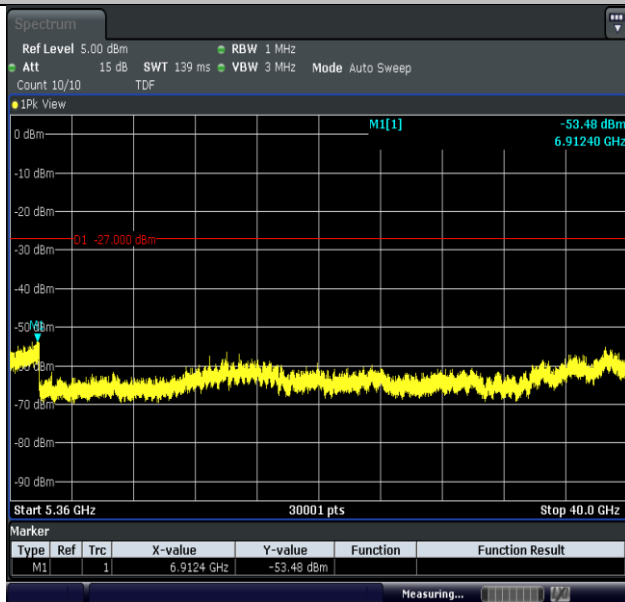


11A-Ant2-5240-30~5140-PASS



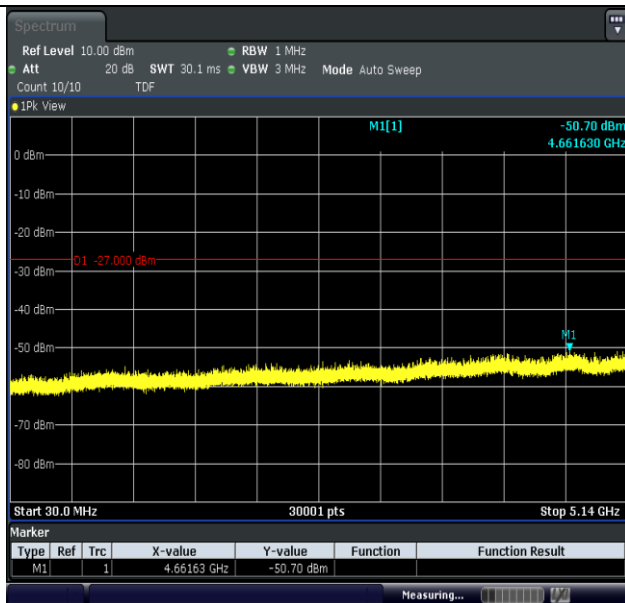


11A-Ant1-5240-5360~40000-PASS

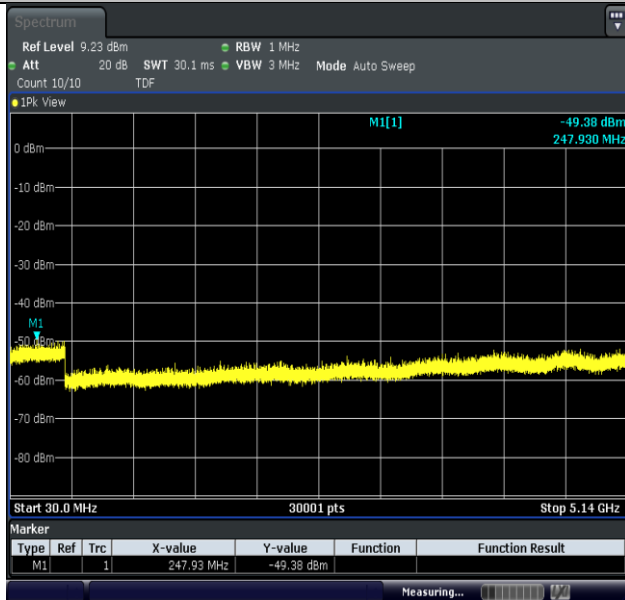


11A-Ant2-5240-5360~40000-PASS



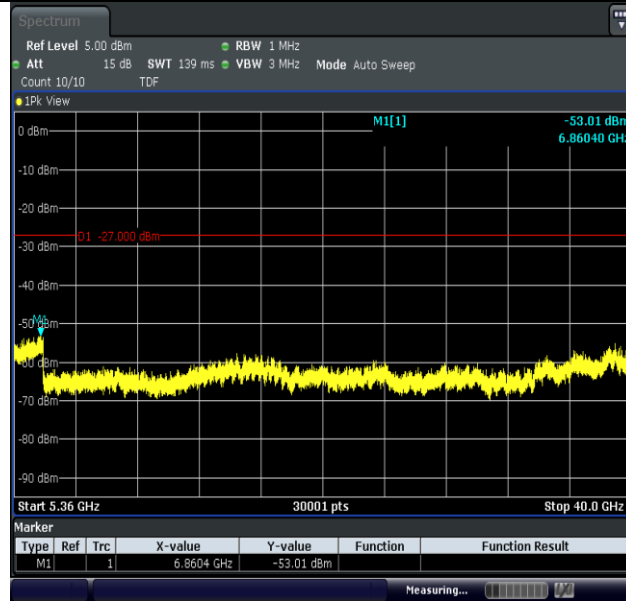


11N20MIMO-Ant1-5180-30~5140-PASS

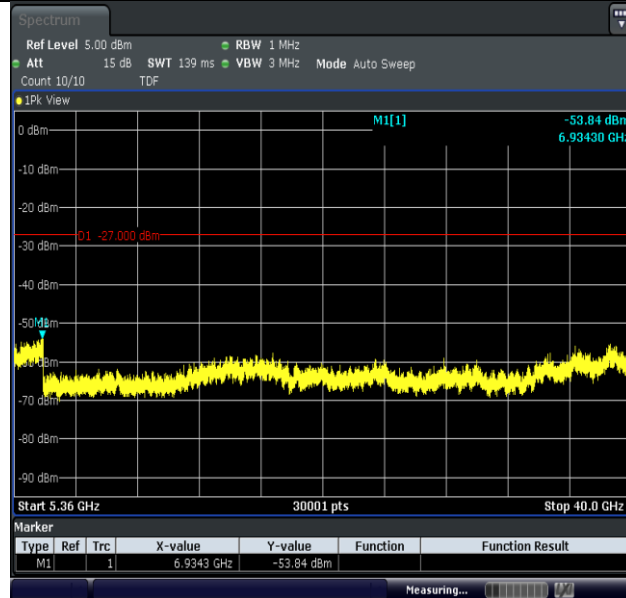


11N20MIMO-Ant2-5180-30~5140-PASS



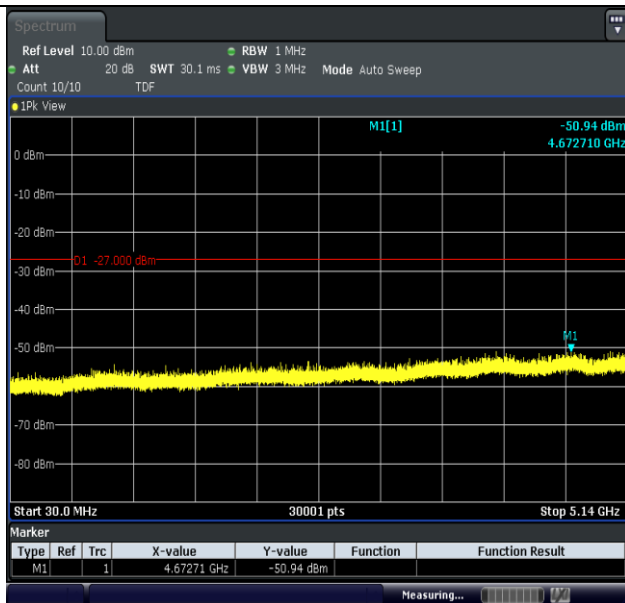


11N20MIMO-Ant1-5180-5360~40000-PASS

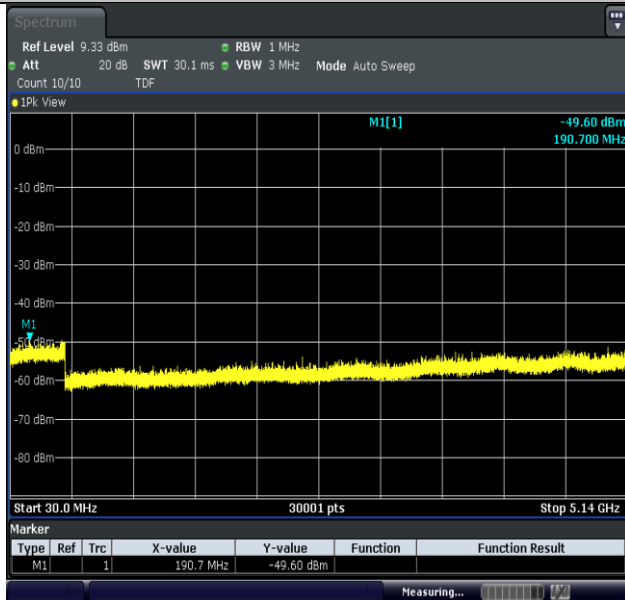


11N20MIMO-Ant2-5180-5360~40000-PASS



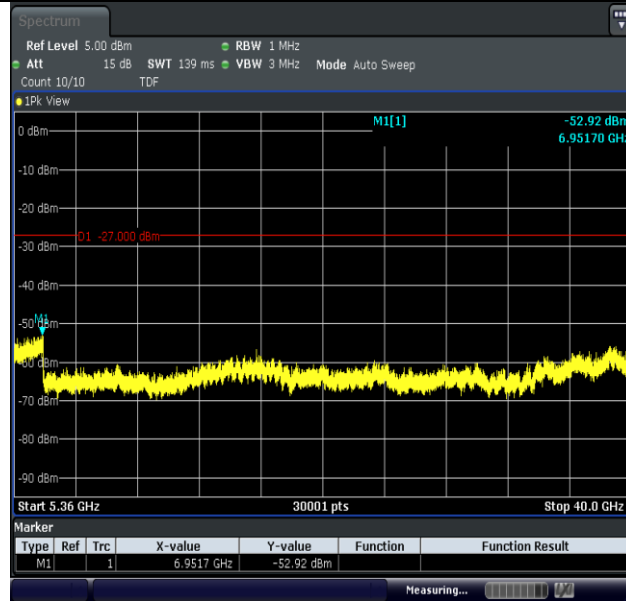


11N20MIMO-Ant1-5200-30~5140-PASS

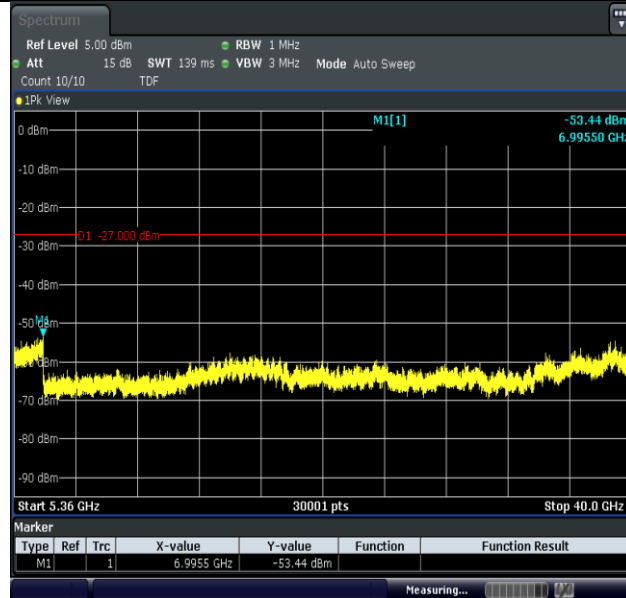


11N20MIMO-Ant2-5200-30~5140-PASS



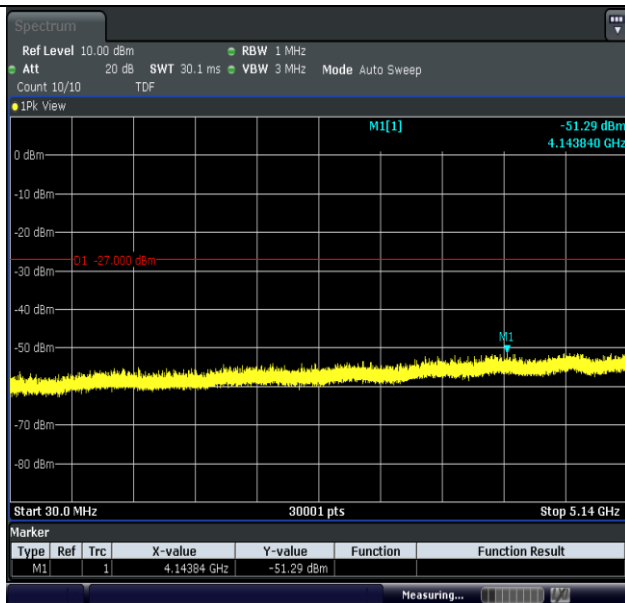


11N20MIMO-Ant1-5200-5360~40000-PASS

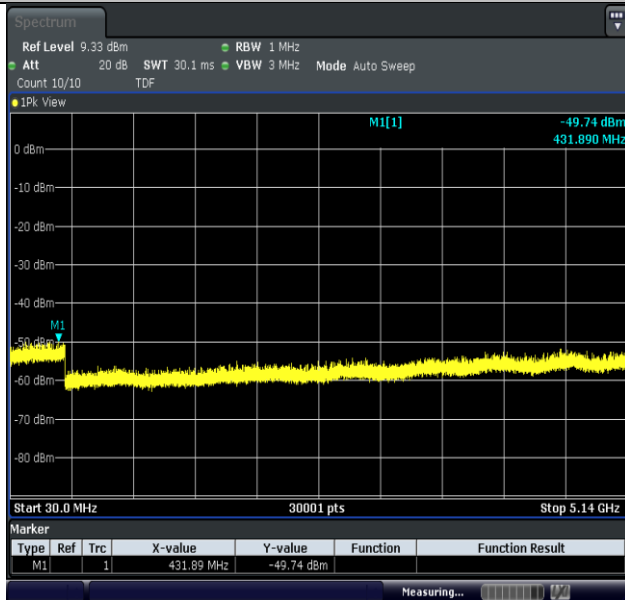


11N20MIMO-Ant2-5200-5360~40000-PASS



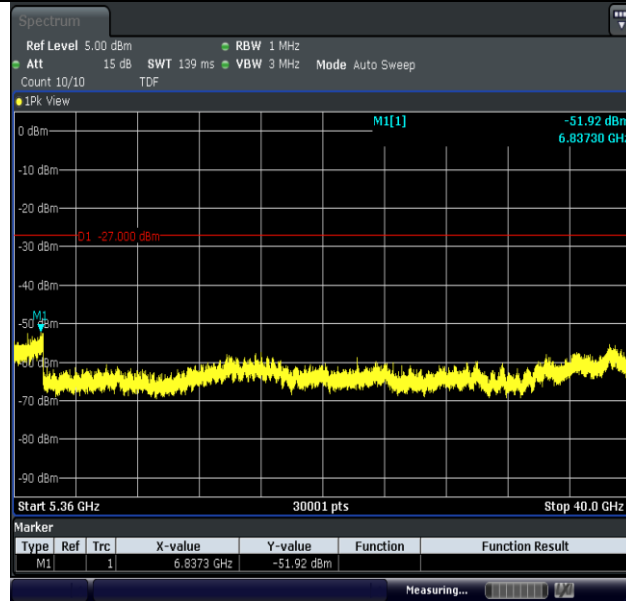


11N20MIMO-Ant1-5240-30~5140-PASS

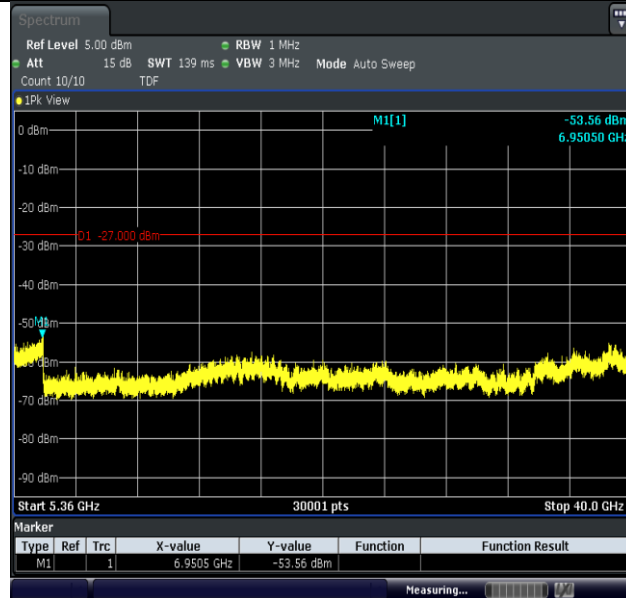


11N20MIMO-Ant2-5240-30~5140-PASS



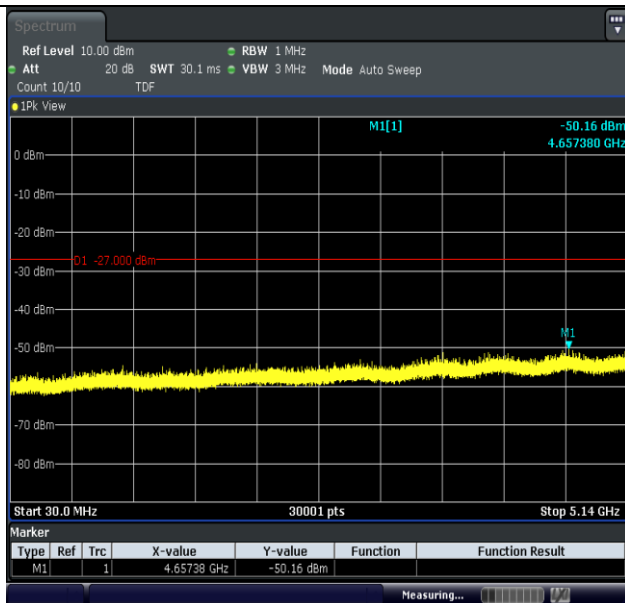


11N20MIMO-Ant1-5240-5360~40000-PASS

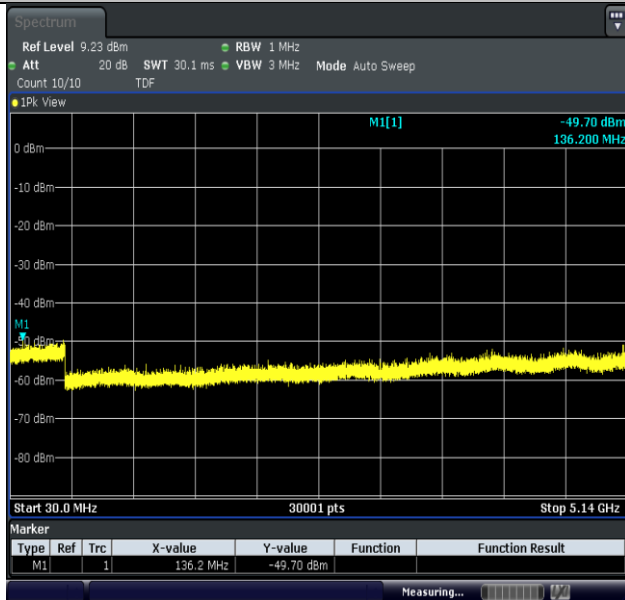


11N20MIMO-Ant2-5240-5360~40000-PASS



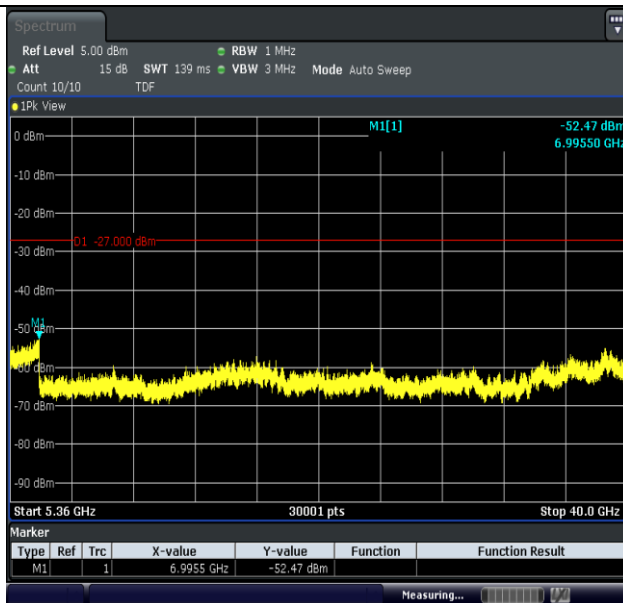


11N40MIMO-Ant1-5190-30~5140-PASS

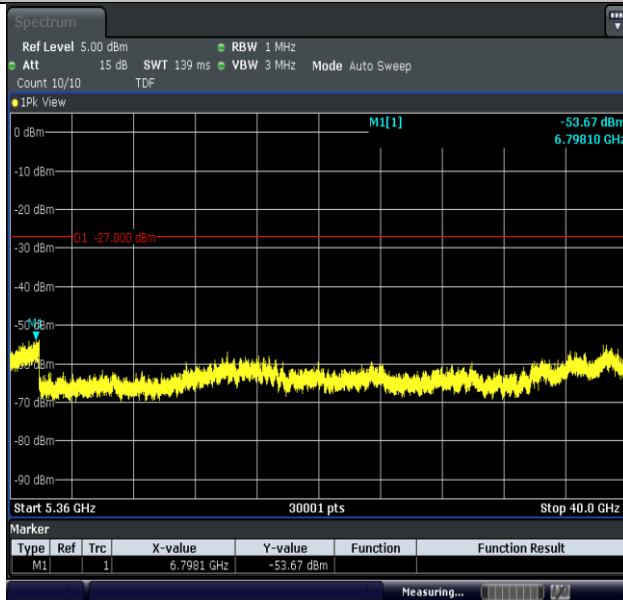


11N40MIMO-Ant2-5190-30~5140-PASS



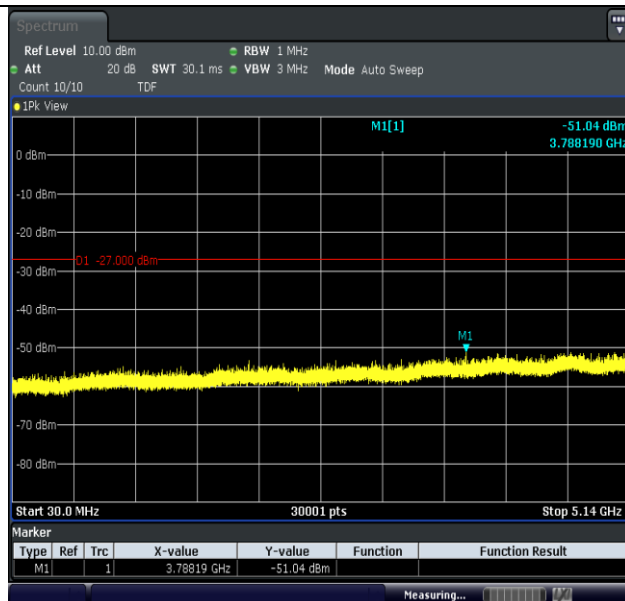


11N40MIMO-Ant1-5190-5360~40000-PASS

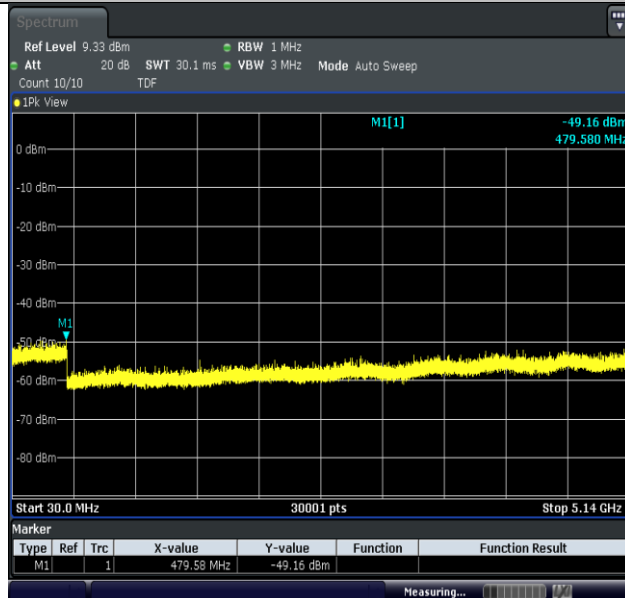


11N40MIMO-Ant2-5190-5360~40000-PASS



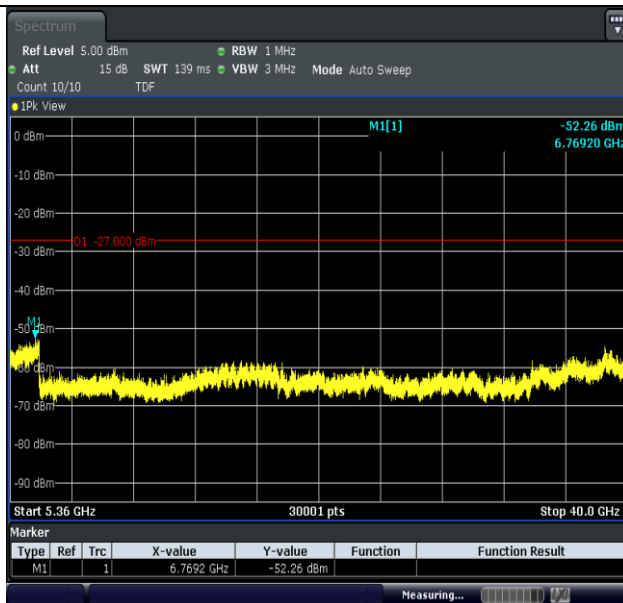


11N40MIMO-Ant1-5230-30~5140-PASS

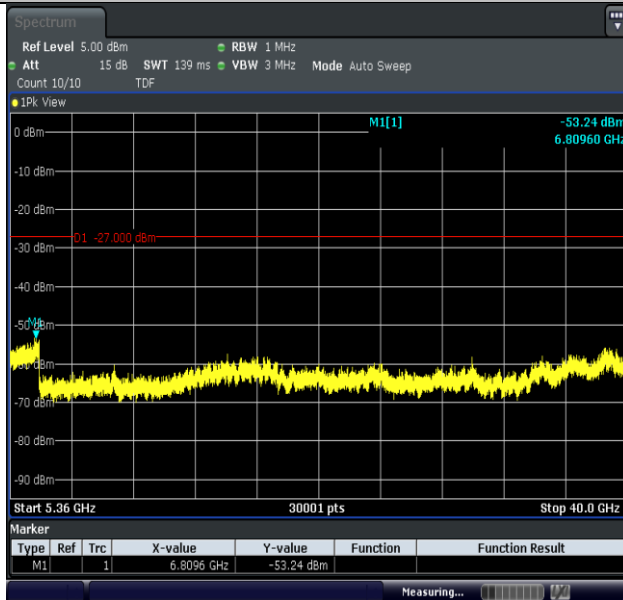


11N40MIMO-Ant2-5230-30~5140-PASS



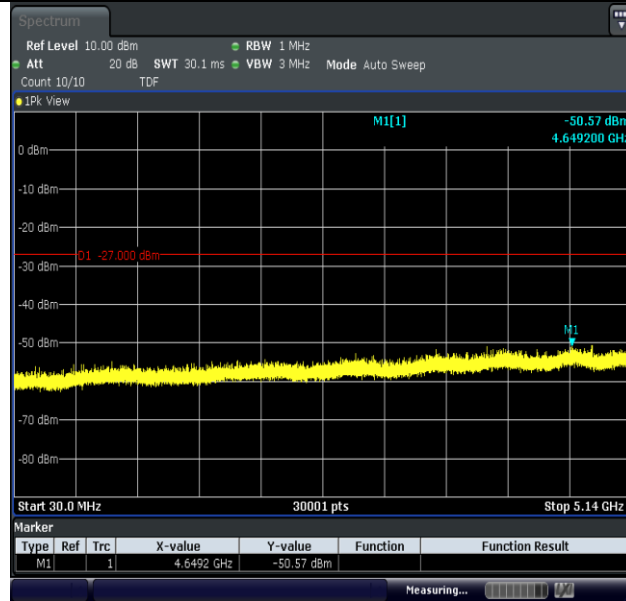


11N40MIMO-Ant1-5230-5360~40000-PASS

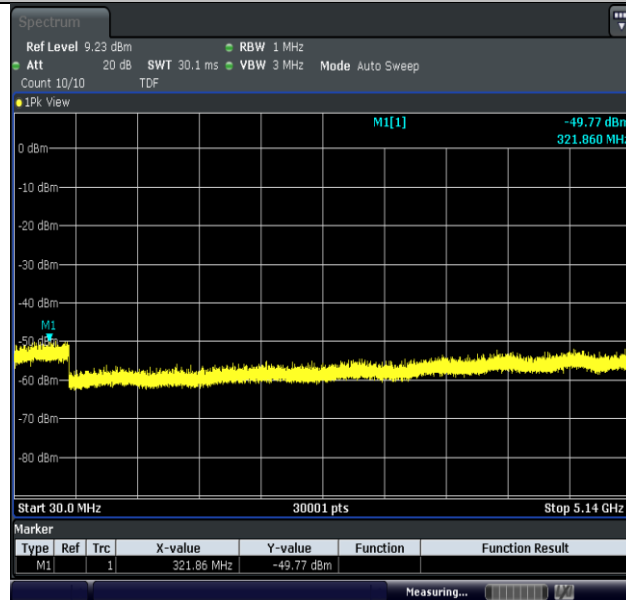


11N40MIMO-Ant2-5230-5360~40000-PASS



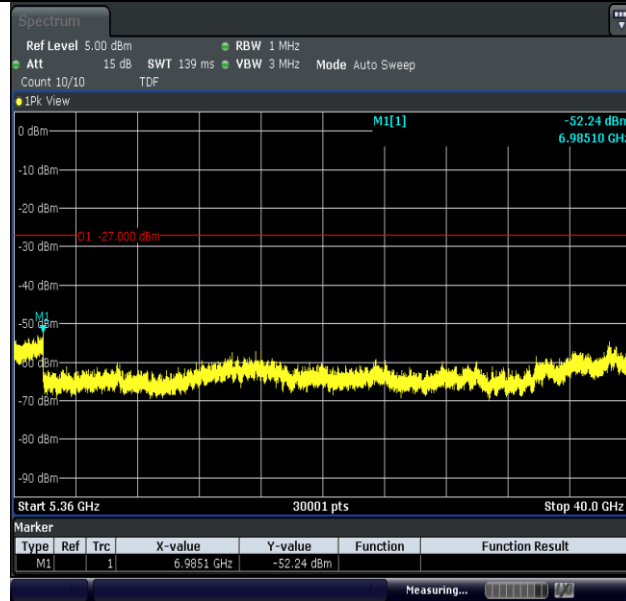


11AC20MIMO-Ant1-5180-30~5140-PASS

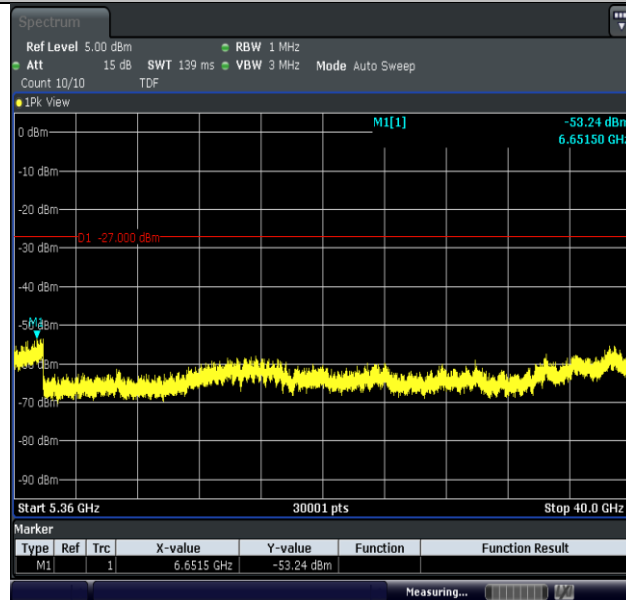


11AC20MIMO-Ant2-5180-30~5140-PASS



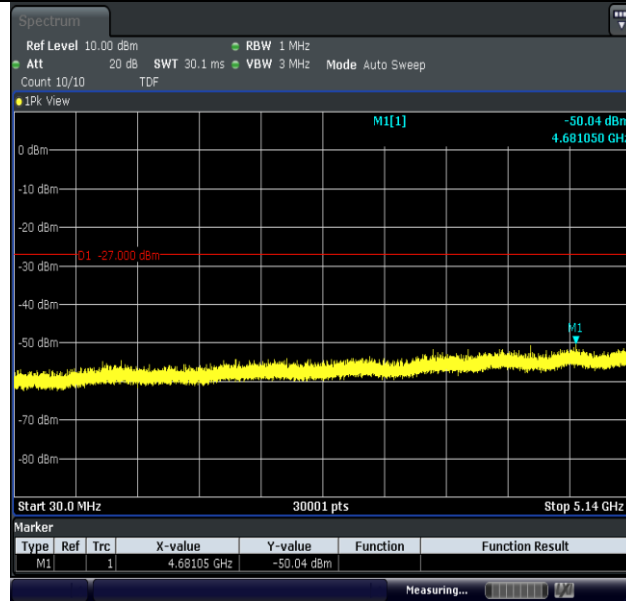


11AC20MIMO-Ant1-5180-5360~40000-PASS

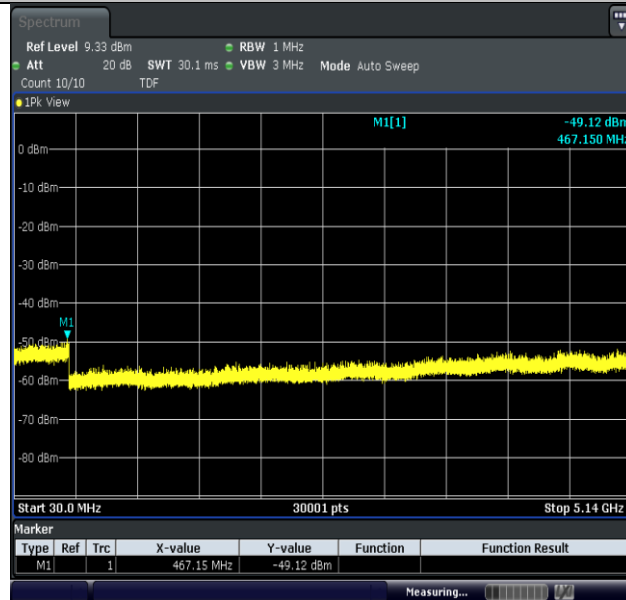


11AC20MIMO-Ant2-5180-5360~40000-PASS



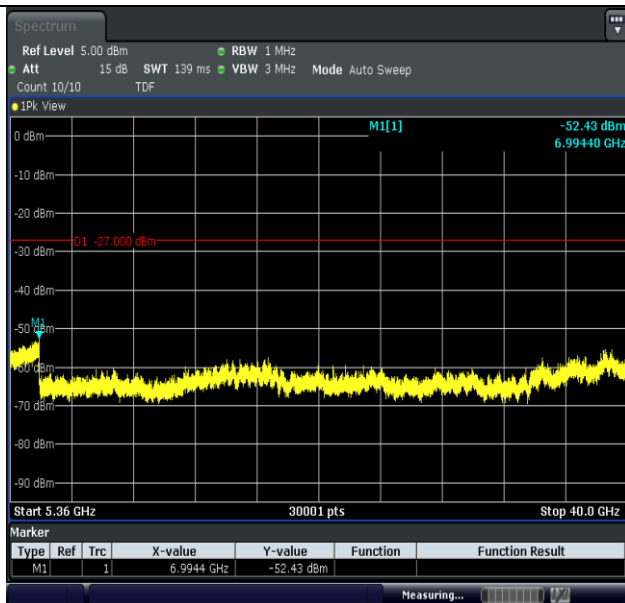


11AC20MIMO-Ant1-5200-30~5140-PASS

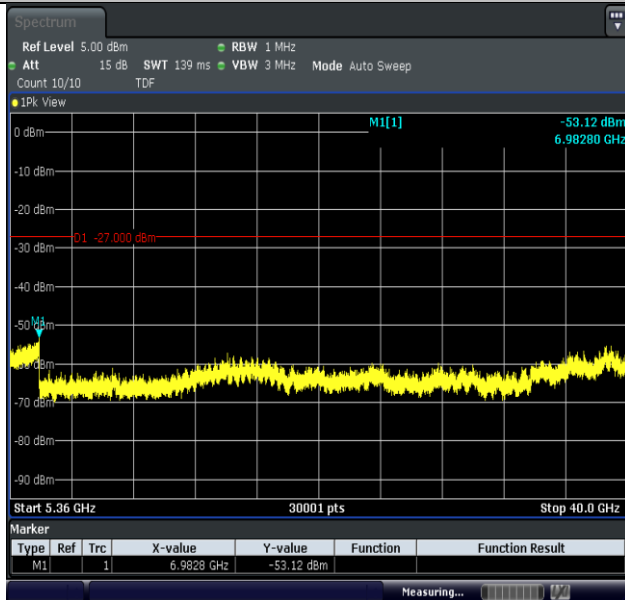


11AC20MIMO-Ant2-5200-30~5140-PASS



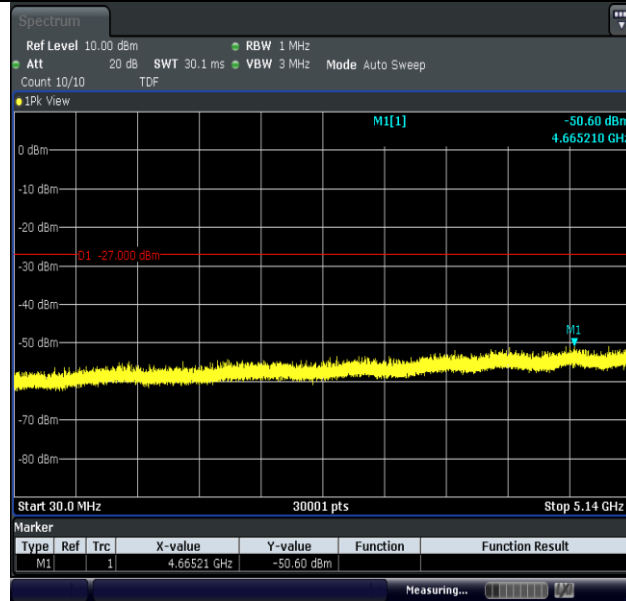


11AC20MIMO-Ant1-5200-5360~40000-PASS

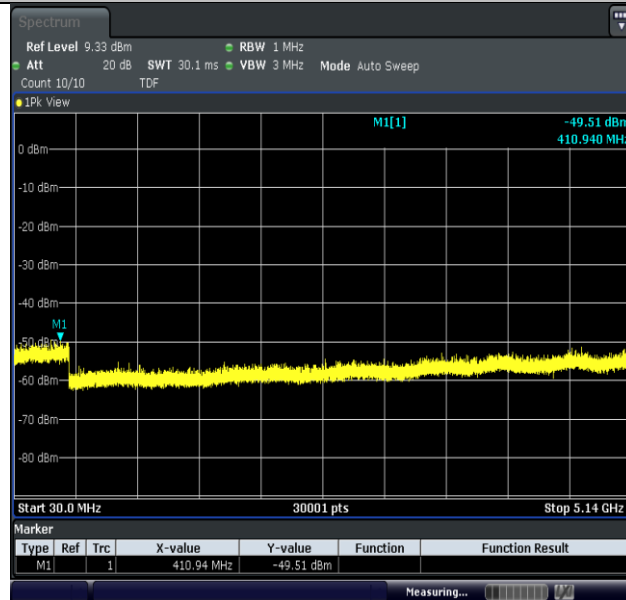


11AC20MIMO-Ant2-5200-5360~40000-PASS



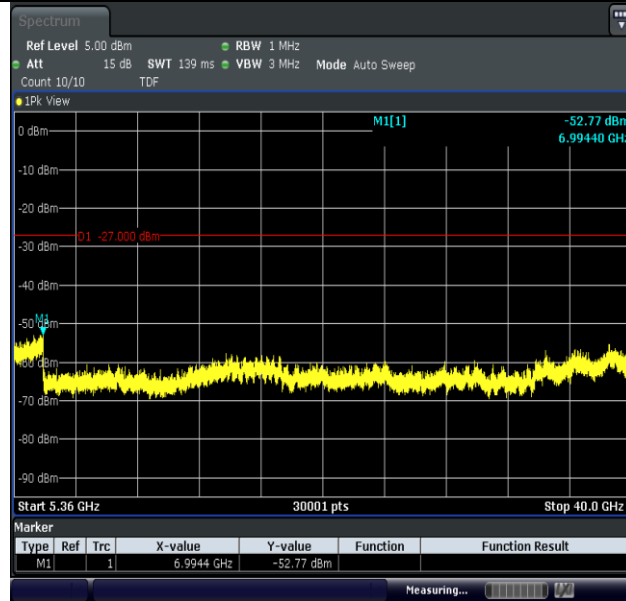


11AC20MIMO-Ant1-5240-30~5140-PASS

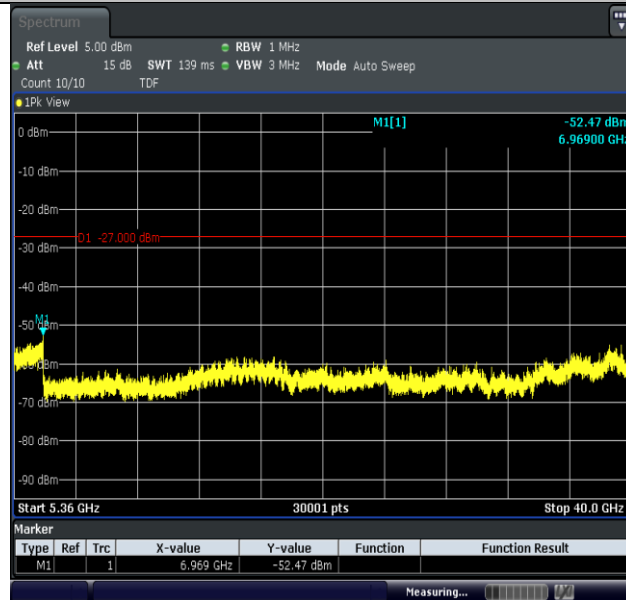


11AC20MIMO-Ant2-5240-30~5140-PASS



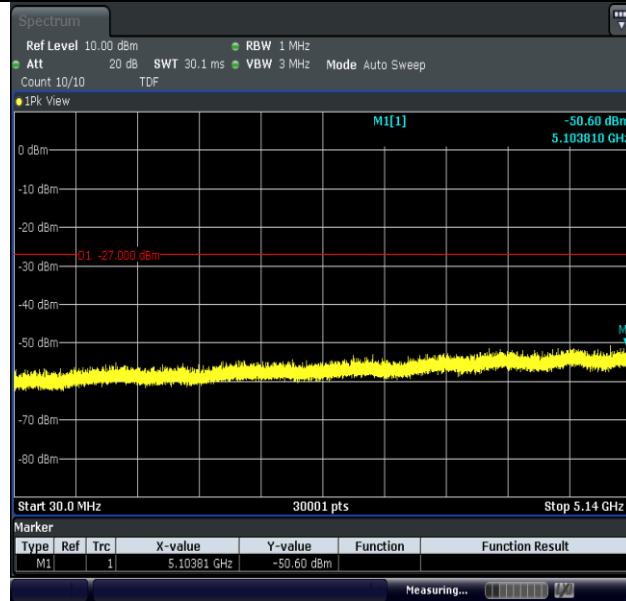


11AC20MIMO-Ant1-5240-5360~40000-PASS

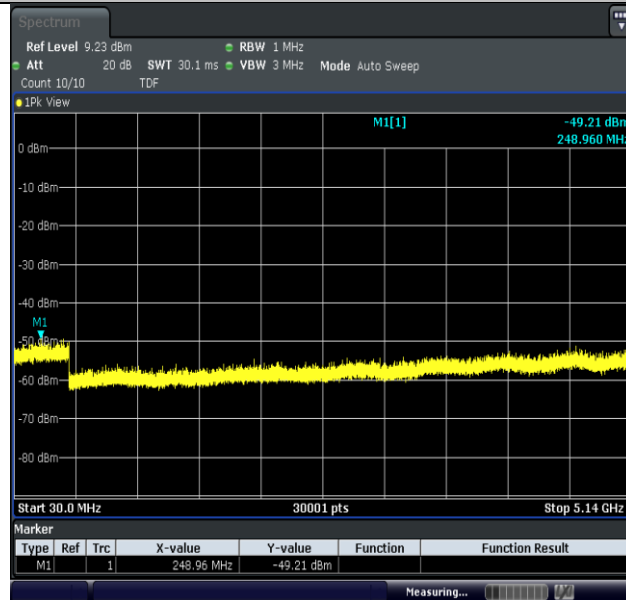


11AC20MIMO-Ant2-5240-5360~40000-PASS



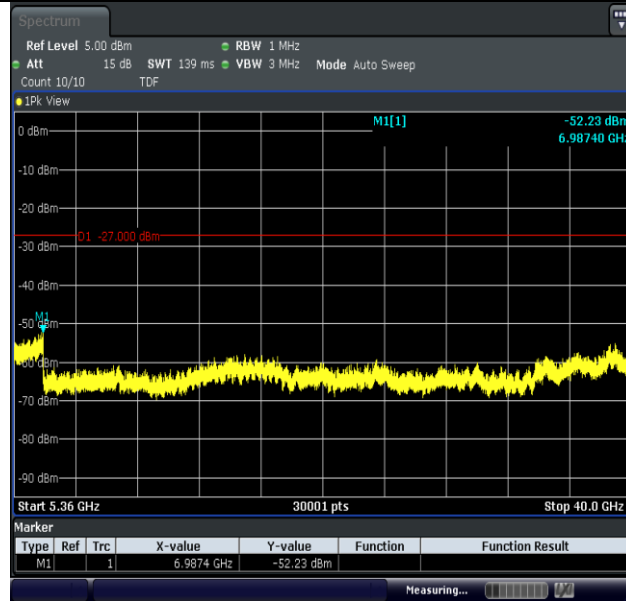


11AC40MIMO-Ant1-5190-30~5140-PASS

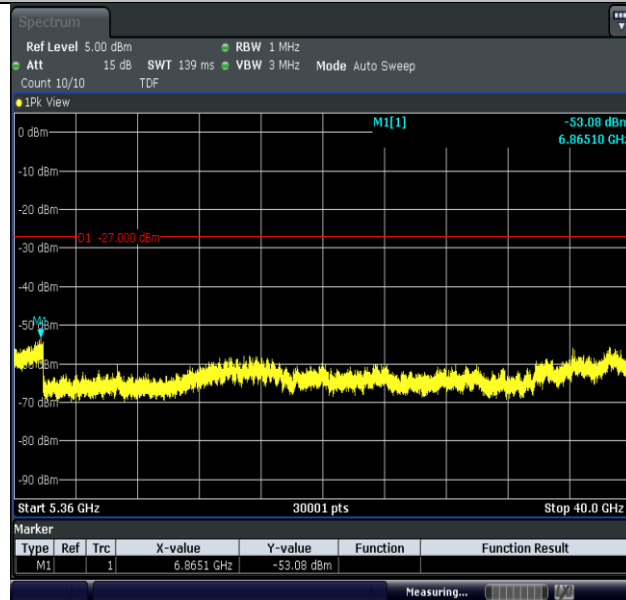


11AC40MIMO-Ant2-5190-30~5140-PASS



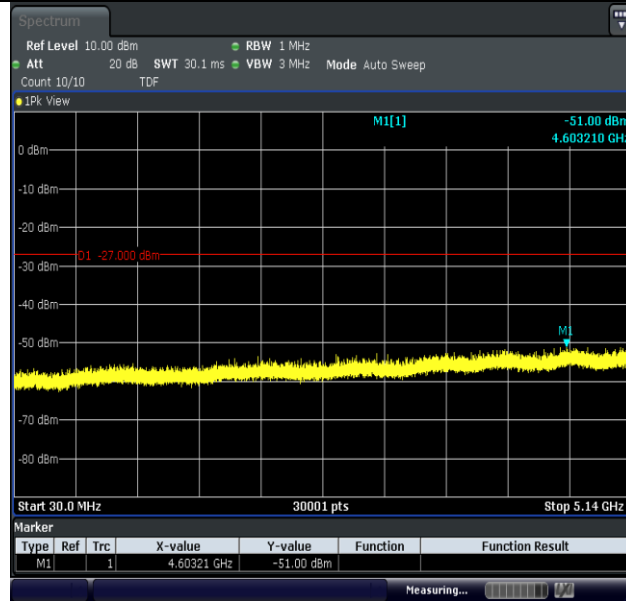


11AC40MIMO-Ant1-5190-5360~40000-PASS

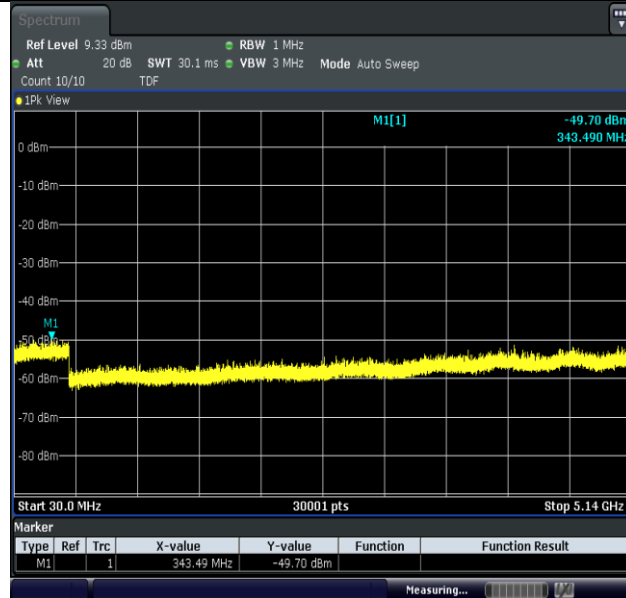


11AC40MIMO-Ant2-5190-5360~40000-PASS



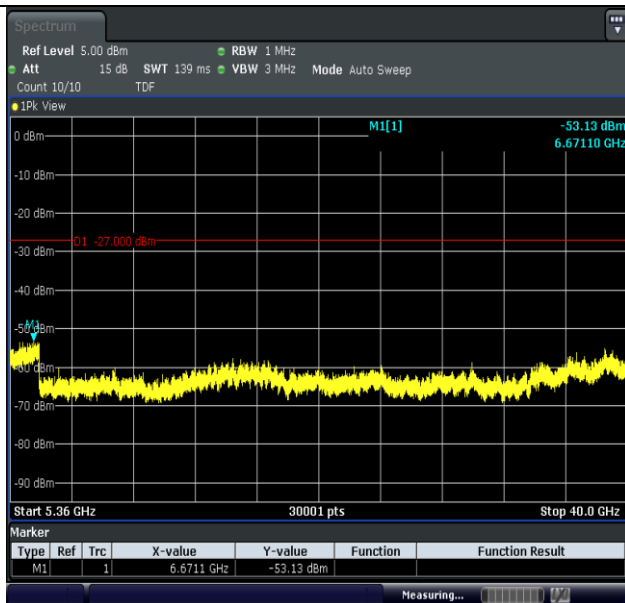


11AC40MIMO-Ant1-5230-30~5140-PASS

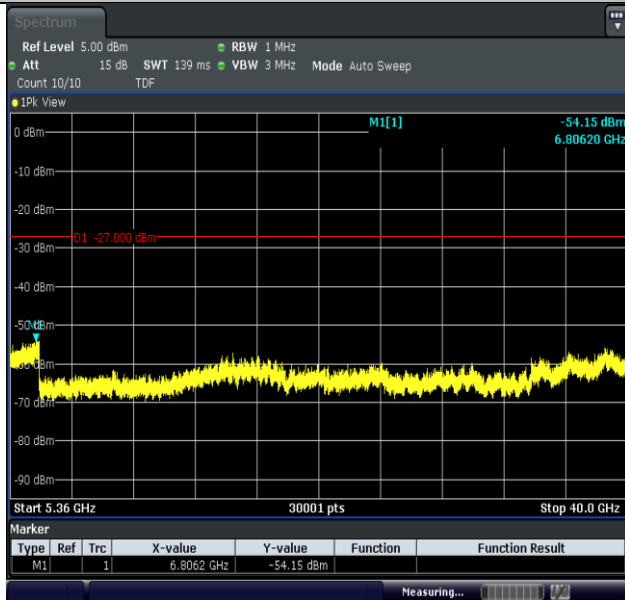


11AC40MIMO-Ant2-5230-30~5140-PASS



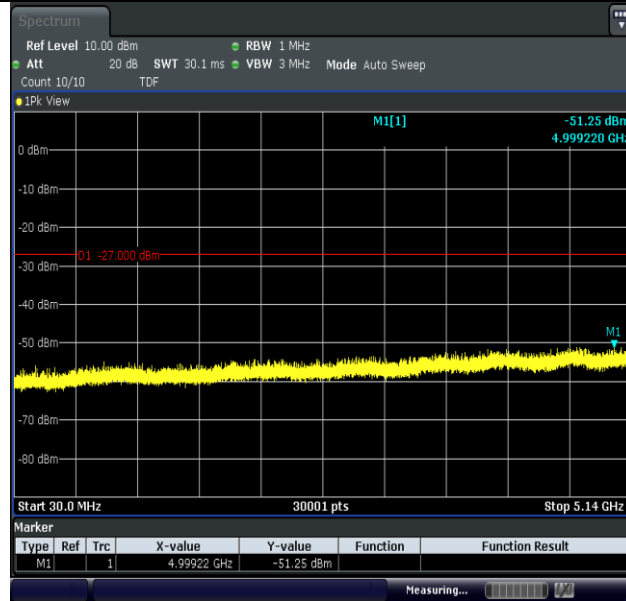


11AC40MIMO-Ant1-5230-5360~40000-PASS

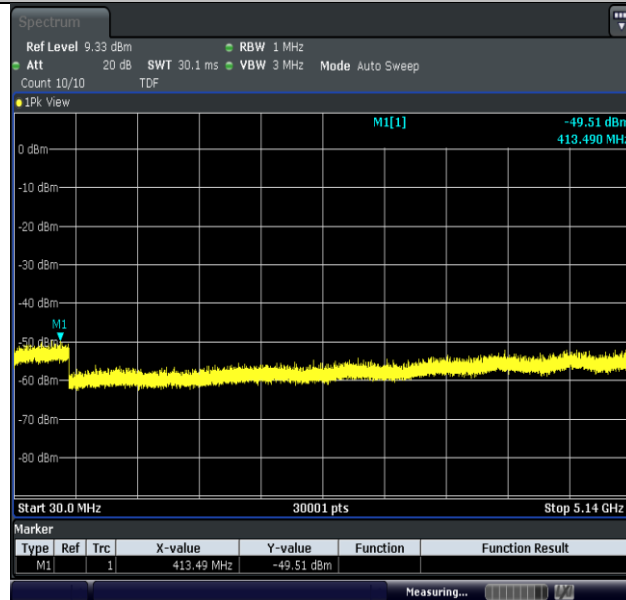


11AC40MIMO-Ant2-5230-5360~40000-PASS



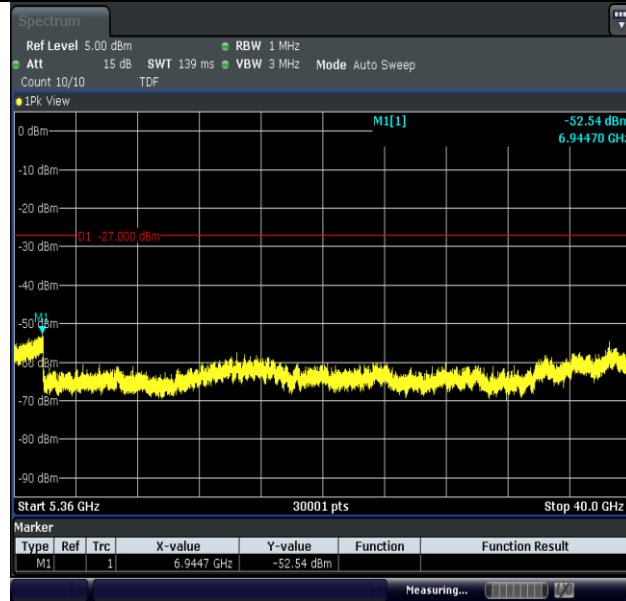


11AC80MIMO-Ant1-5210-30~5140-PASS

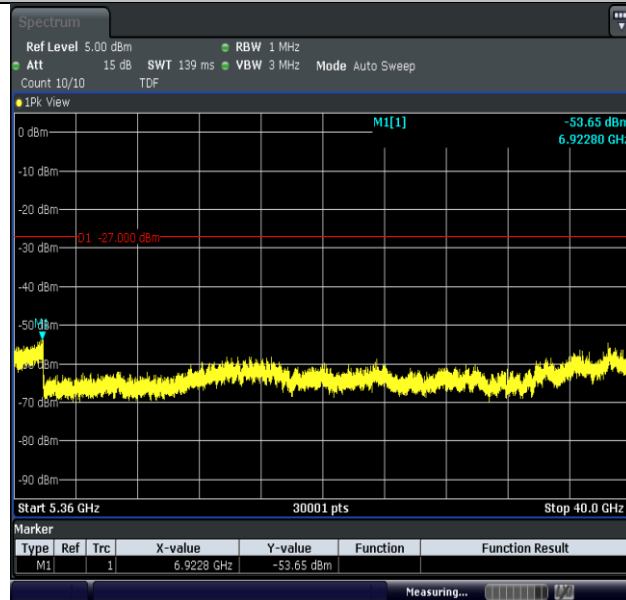


11AC80MIMO-Ant2-5210-30~5140-PASS





11AC80MIMO-Ant1-5210-5360~40000-PASS



11AC80MIMO-Ant2-5210-5360~40000-PASS





## Appendix G: Duty Cycle

### Test Result

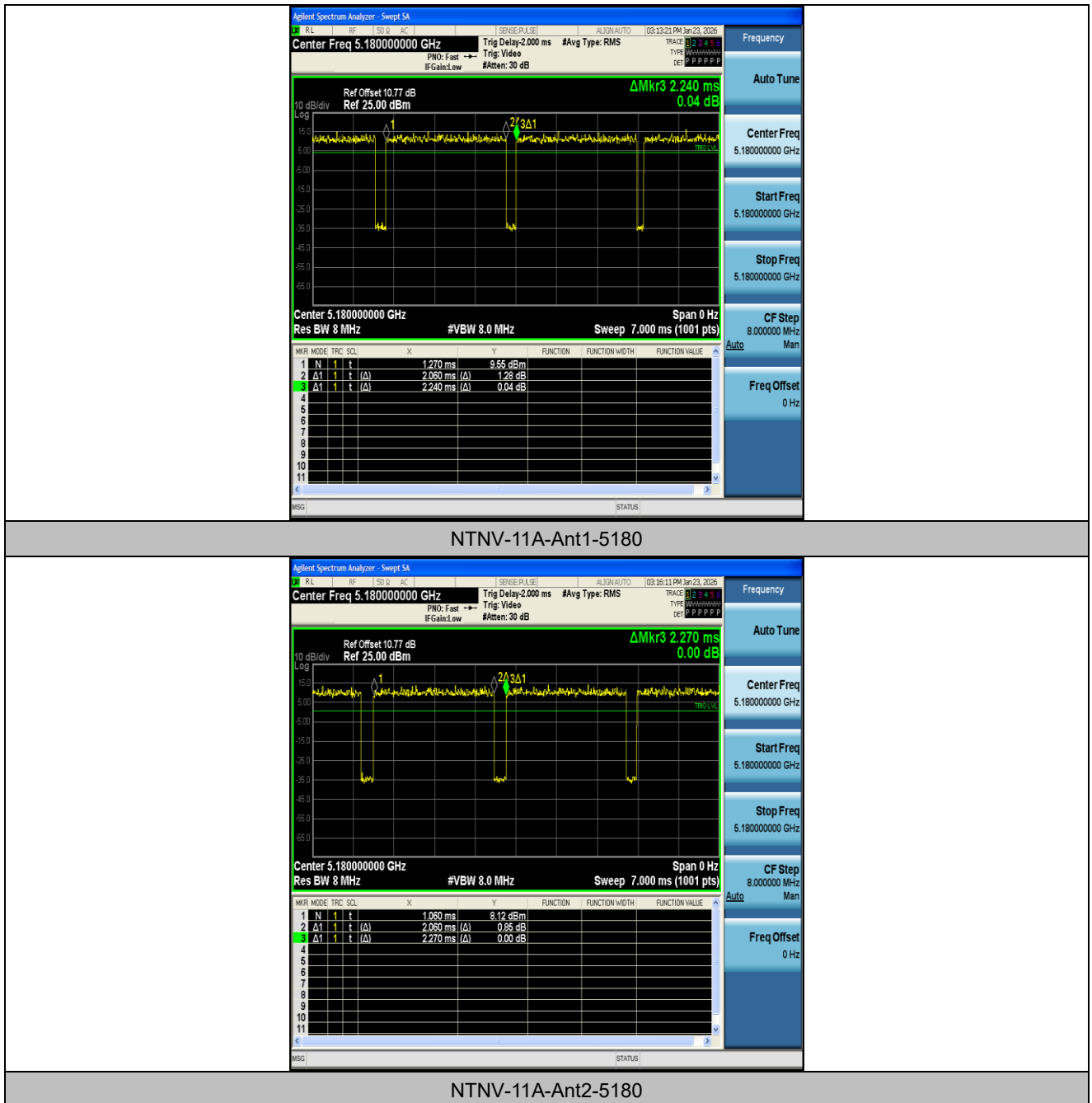
| Test Mode  | Antenna | Frequency [MHz] | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | Dc. Factor [%] | 1/T [kHz] |
|------------|---------|-----------------|----------------------------|--------------------------|----------------|----------------|-----------|
| 11A        | Ant1    | 5180            | 2.06                       | 2.24                     | 91.96          | 0.36           | 0.49      |
| 11A        | Ant2    | 5180            | 2.06                       | 2.27                     | 90.75          | 0.42           | 0.49      |
| 11A        | Ant1    | 5200            | 2.06                       | 2.26                     | 91.15          | 0.40           | 0.49      |
| 11A        | Ant2    | 5200            | 2.05                       | 2.22                     | 92.34          | 0.35           | 0.49      |
| 11A        | Ant1    | 5240            | 2.07                       | 2.25                     | 92.00          | 0.36           | 0.48      |
| 11A        | Ant2    | 5240            | 2.06                       | 2.27                     | 90.75          | 0.42           | 0.49      |
| 11N20MIMO  | Ant1    | 5180            | 0.14                       | 0.37                     | 37.84          | 4.22           | 7.14      |
| 11N20MIMO  | Ant2    | 5180            | 0.13                       | 0.36                     | 36.11          | 4.42           | 7.69      |
| 11N20MIMO  | Ant1    | 5200            | 0.13                       | 0.34                     | 38.24          | 4.17           | 7.69      |
| 11N20MIMO  | Ant2    | 5200            | 0.14                       | 0.30                     | 46.67          | 3.31           | 7.14      |
| 11N20MIMO  | Ant1    | 5240            | 0.13                       | 0.35                     | 37.14          | 4.30           | 7.69      |
| 11N20MIMO  | Ant2    | 5240            | 0.14                       | 0.33                     | 42.42          | 3.72           | 7.14      |
| 11N40MIMO  | Ant1    | 5190            | 0.09                       | 0.32                     | 28.13          | 5.51           | 11.11     |
| 11N40MIMO  | Ant2    | 5190            | 0.09                       | 0.32                     | 28.13          | 5.51           | 11.11     |
| 11N40MIMO  | Ant1    | 5230            | 0.09                       | 0.32                     | 28.13          | 5.51           | 11.11     |
| 11N40MIMO  | Ant2    | 5230            | 0.09                       | 0.31                     | 29.03          | 5.37           | 11.11     |
| 11AC20MIMO | Ant1    | 5180            | 0.20                       | 0.44                     | 45.45          | 3.42           | 5.00      |
| 11AC20MIMO | Ant2    | 5180            | 0.20                       | 0.44                     | 45.45          | 3.42           | 5.00      |
| 11AC20MIMO | Ant1    | 5200            | 0.20                       | 0.44                     | 45.45          | 3.42           | 5.00      |
| 11AC20MIMO | Ant2    | 5200            | 0.20                       | 0.46                     | 43.48          | 3.62           | 5.00      |
| 11AC20MIMO | Ant1    | 5240            | 0.20                       | 0.42                     | 47.62          | 3.22           | 5.00      |
| 11AC20MIMO | Ant2    | 5240            | 0.20                       | 0.43                     | 46.51          | 3.32           | 5.00      |
| 11AC40MIMO | Ant1    | 5190            | 0.12                       | 0.35                     | 34.29          | 4.65           | 8.33      |
| 11AC40MIMO | Ant2    | 5190            | 0.11                       | 0.33                     | 33.33          | 4.77           | 9.09      |
| 11AC40MIMO | Ant1    | 5230            | 0.11                       | 0.30                     | 36.67          | 4.36           | 9.09      |
| 11AC40MIMO | Ant2    | 5230            | 0.11                       | 0.34                     | 32.35          | 4.90           | 9.09      |
| 11AC80MIMO | Ant1    | 5210            | 0.07                       | 0.31                     | 22.58          | 6.46           | 14.29     |
| 11AC80MIMO | Ant2    | 5210            | 0.08                       | 0.30                     | 26.67          | 5.74           | 12.50     |

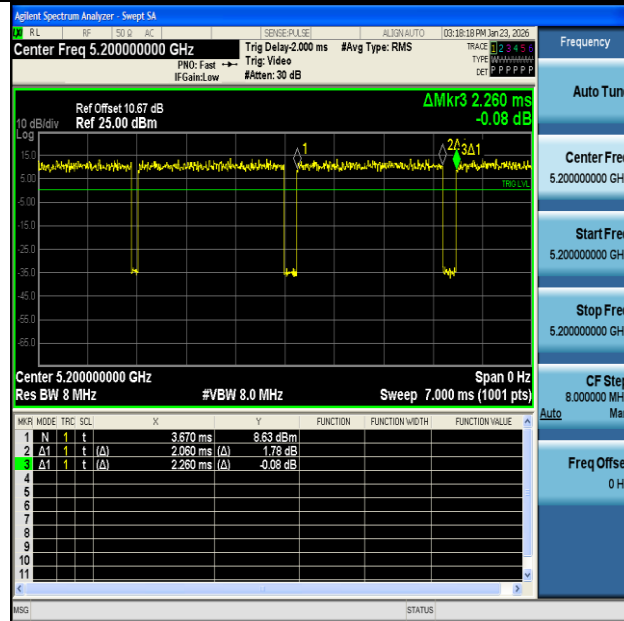
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)



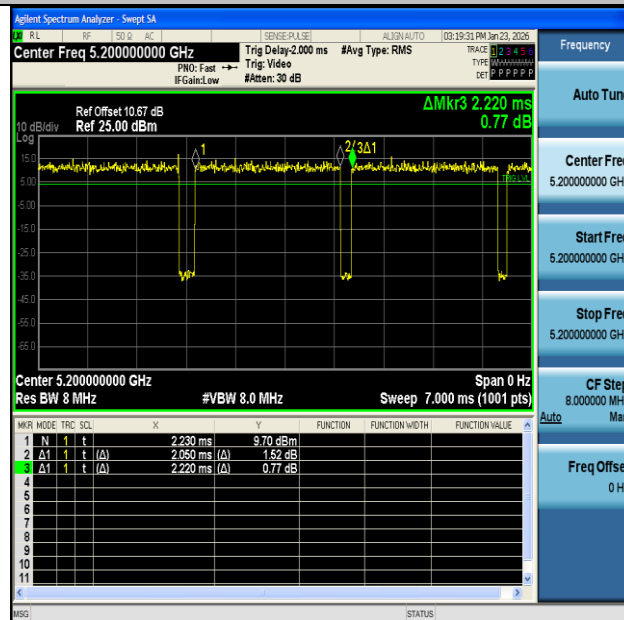


## Test Graphs



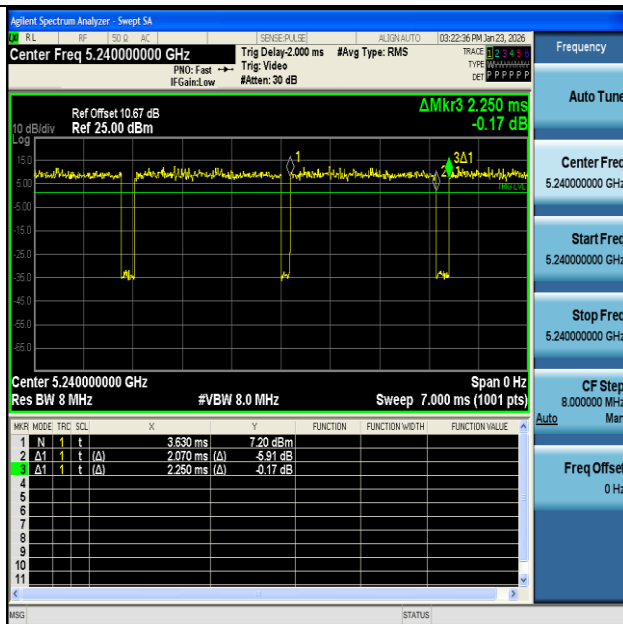


NTNV-11A-Ant1-5200

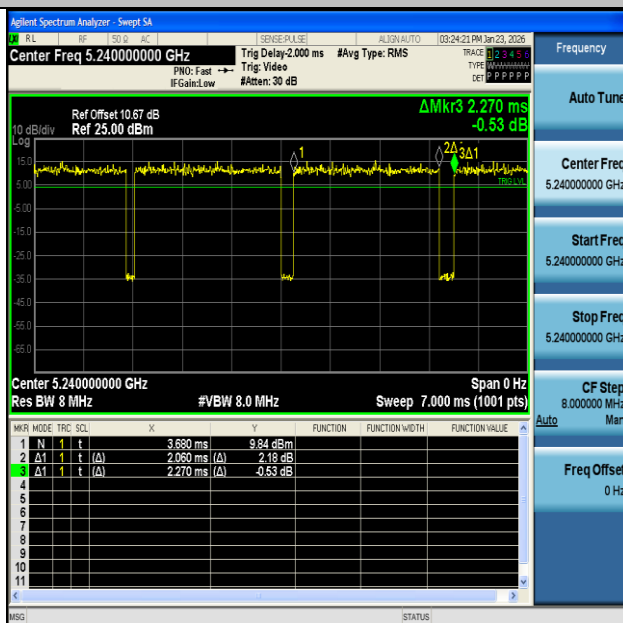


NTNV-11A-Ant2-5200



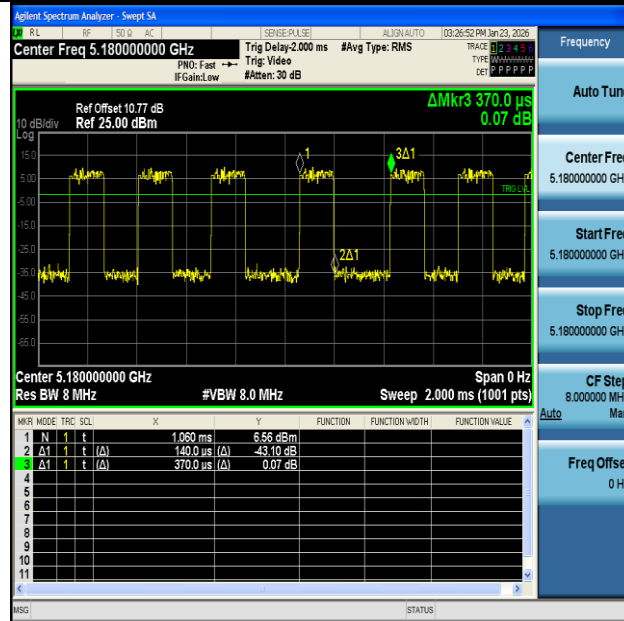


NTNV-11A-Ant1-5240

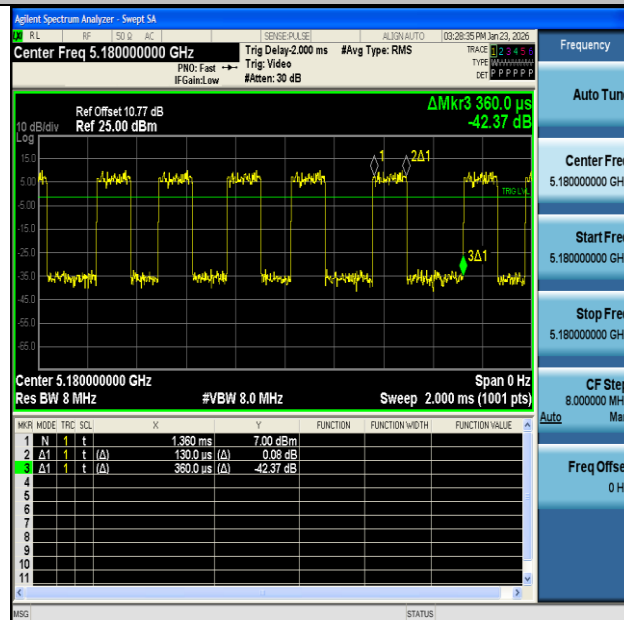


NTNV-11A-Ant2-5240



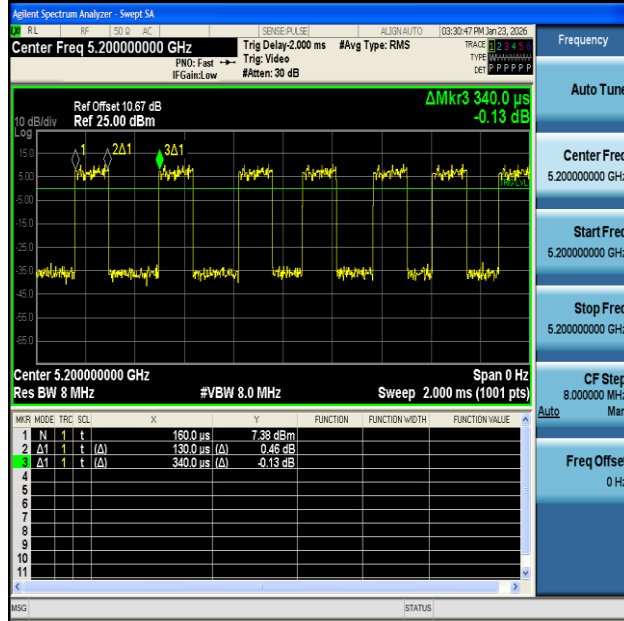


NTNV-11N20MIMO-Ant1-5180

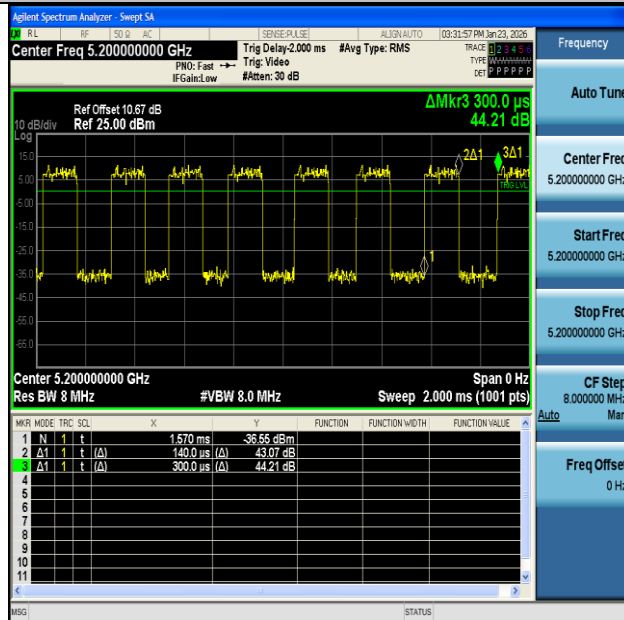


NTNV-11N20MIMO-Ant2-5180



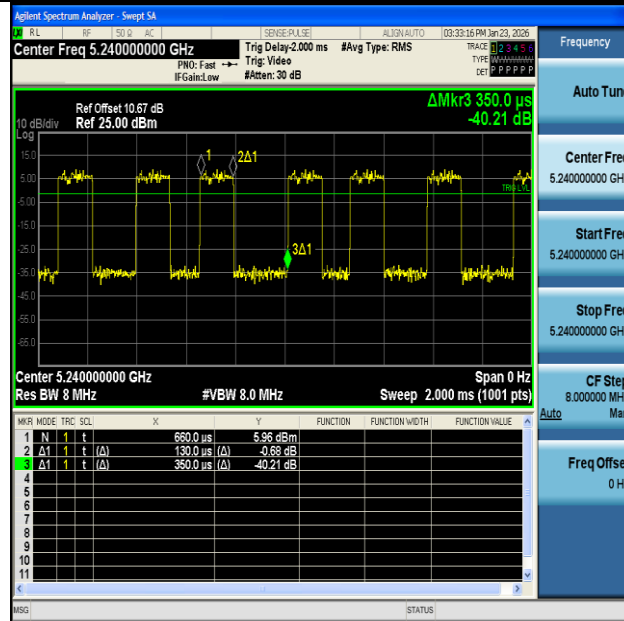


NTNV-11N20MIMO-Ant1-5200

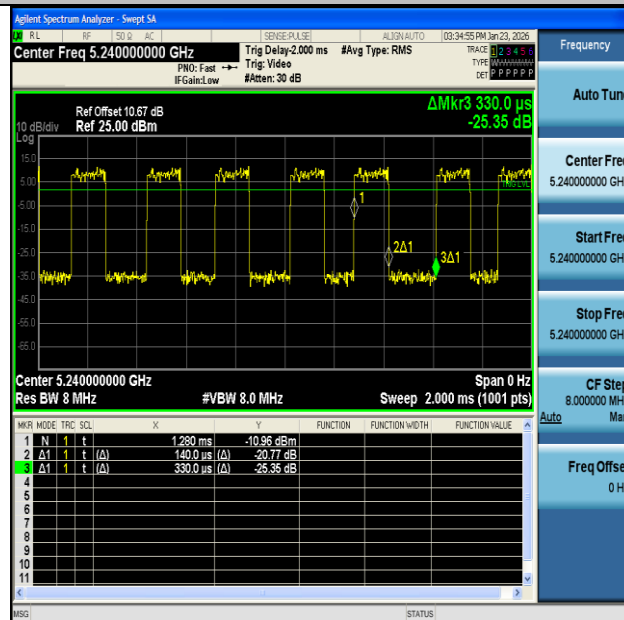


NTNV-11N20MIMO-Ant2-5200



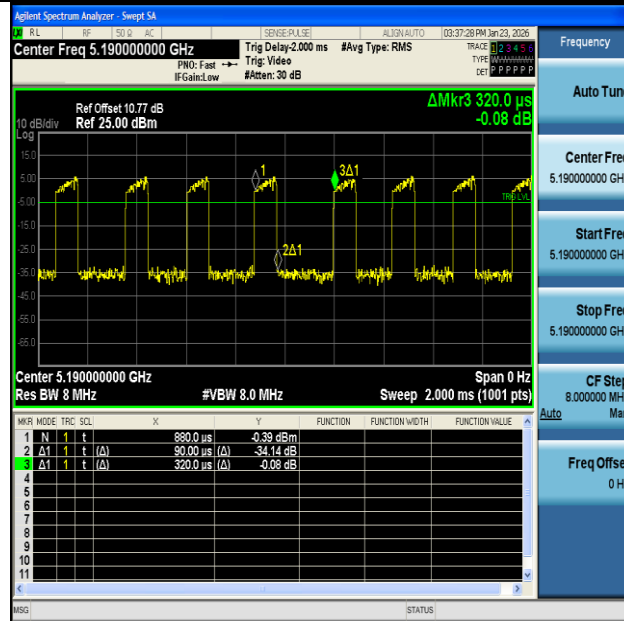


NTNV-11N20MIMO-Ant1-5240

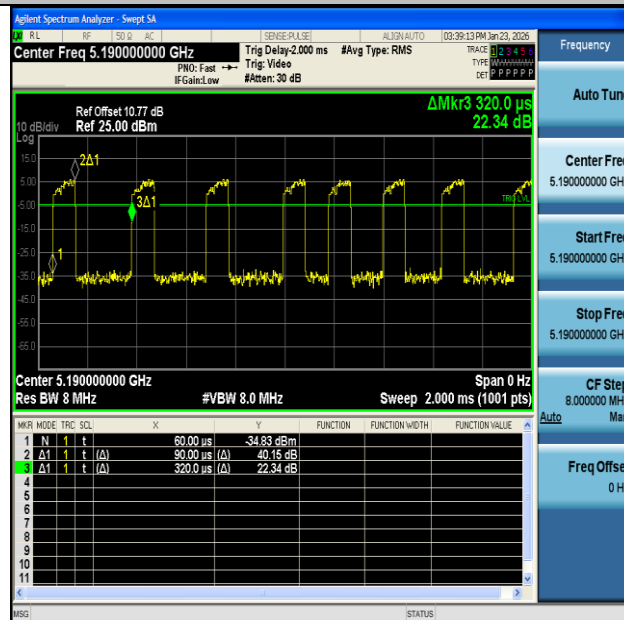


NTNV-11N20MIMO-Ant2-5240



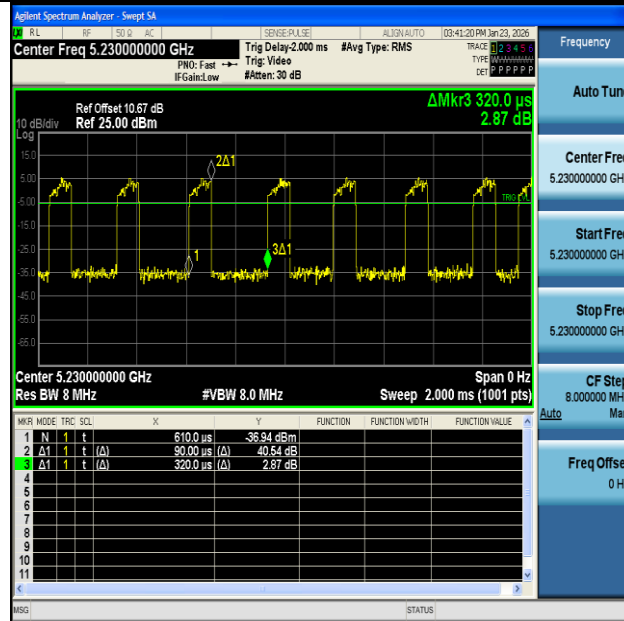


NTNV-11N40MIMO-Ant1-5190

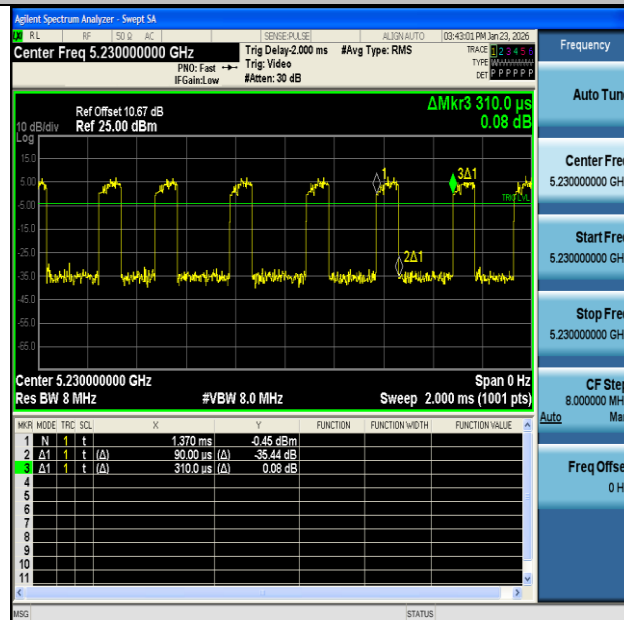


NTNV-11N40MIMO-Ant2-5190





NTNV-11N40MIMO-Ant1-5230



NTNV-11N40MIMO-Ant2-5230

