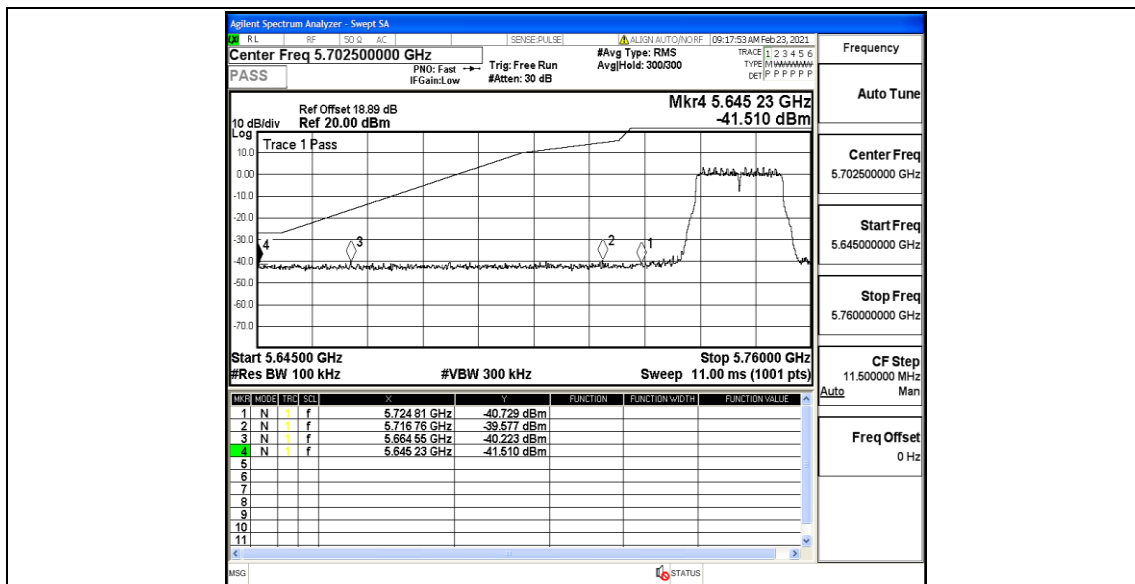
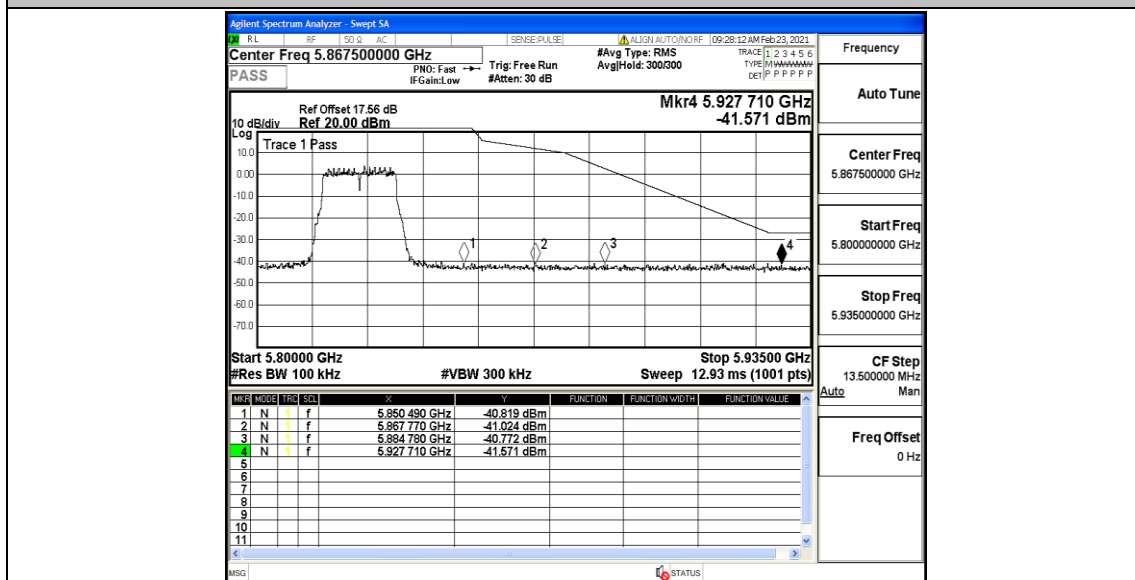
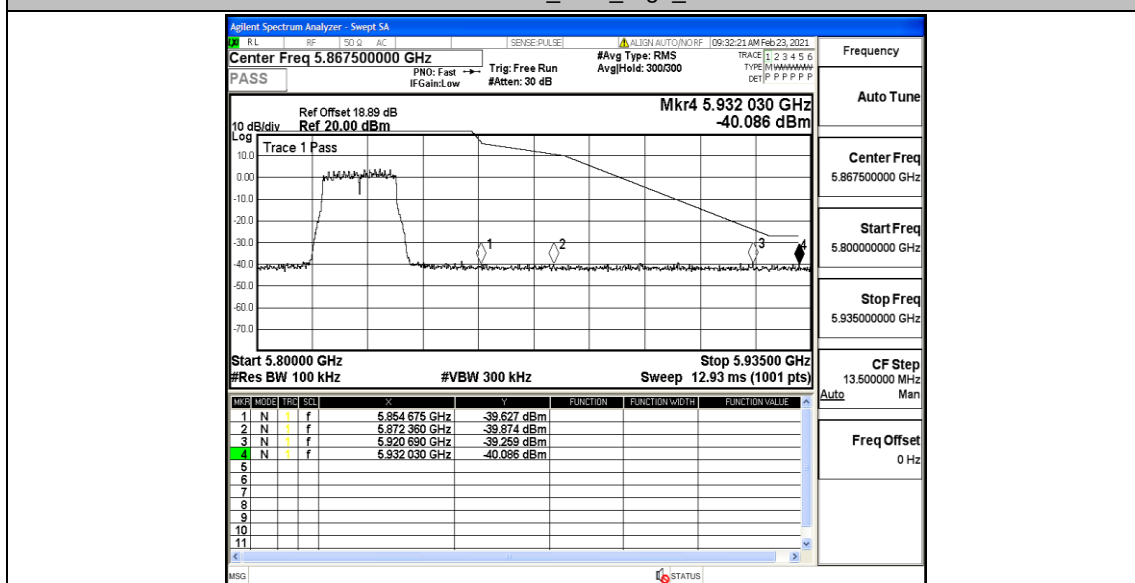




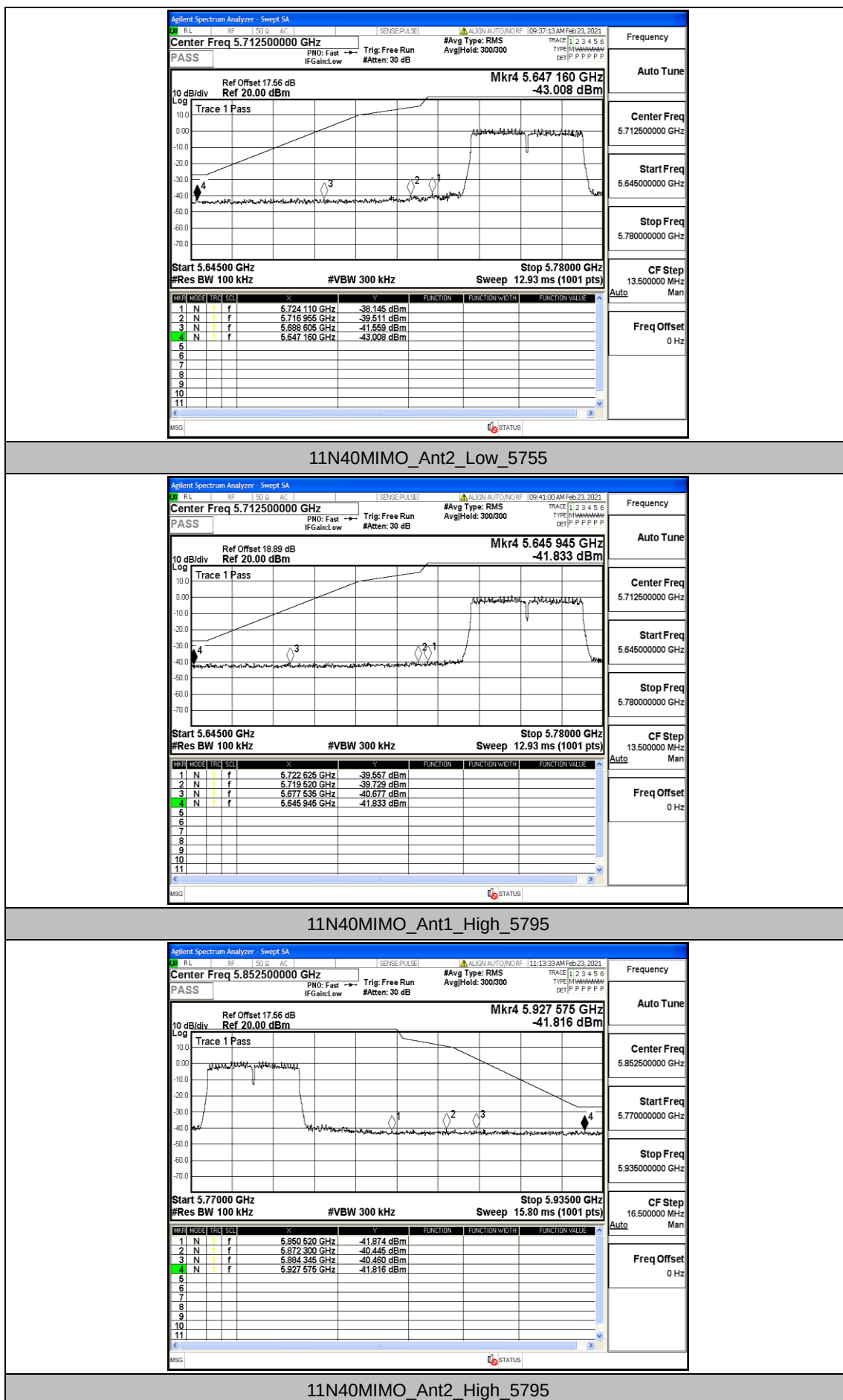
11N20MIMO\_Ant1\_High\_5825

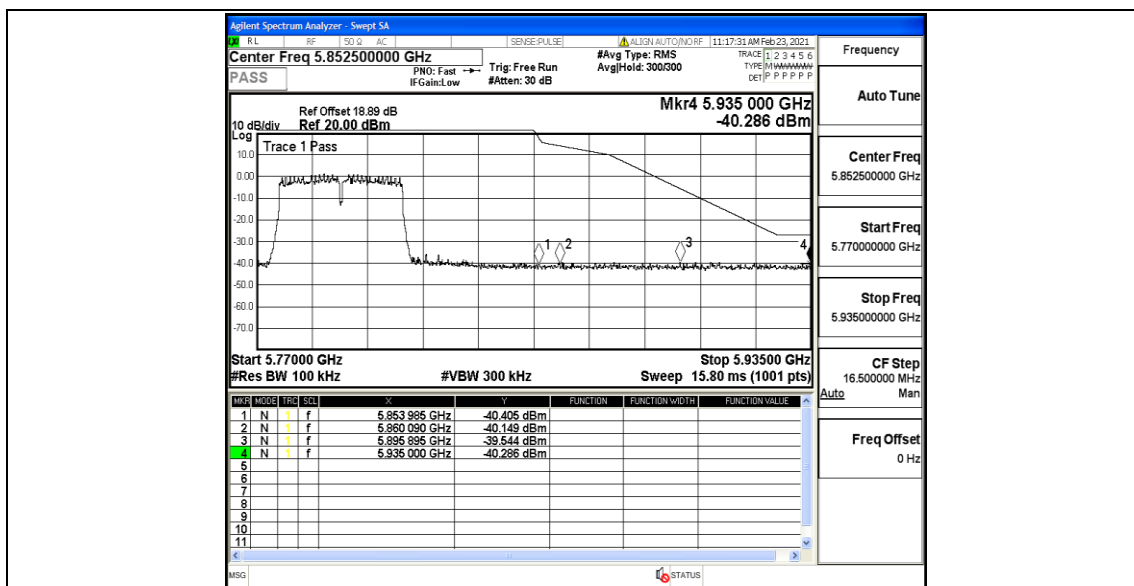


11N20MIMO\_Ant2\_High\_5825

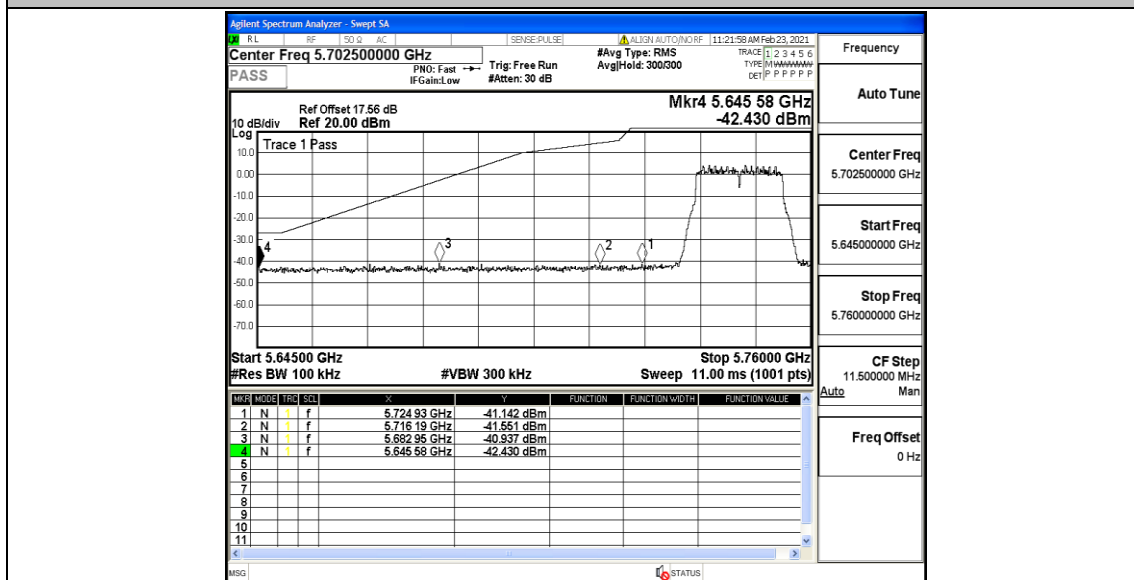


11N40MIMO\_Ant1\_Low\_5755

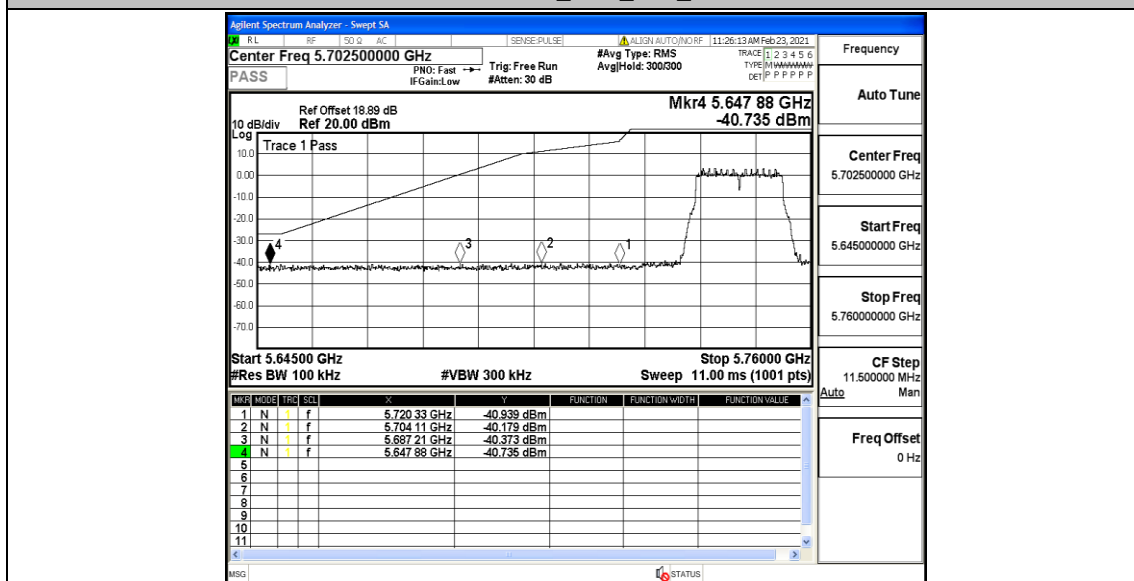




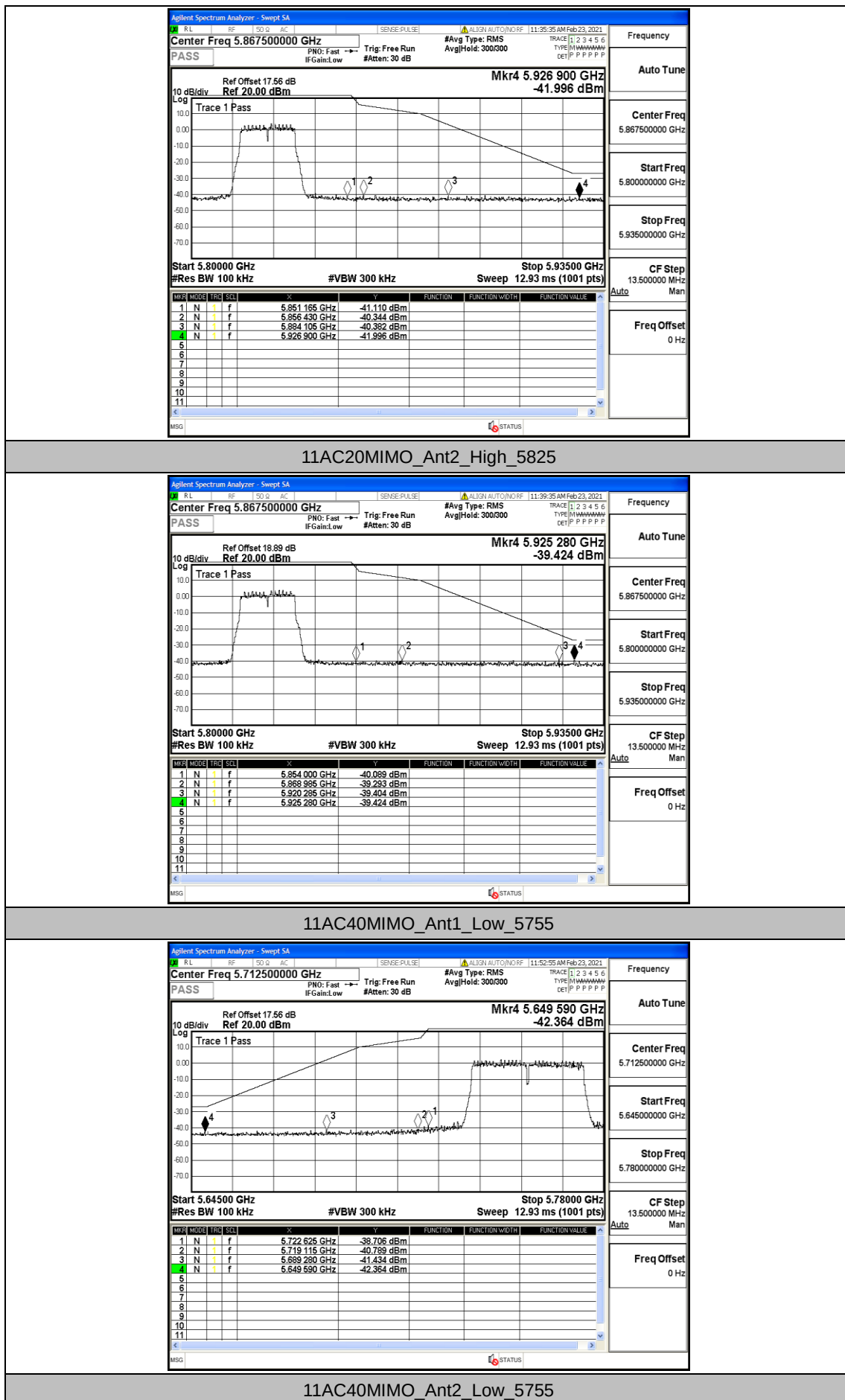
11AC20MIMO\_Ant1\_Low\_5745

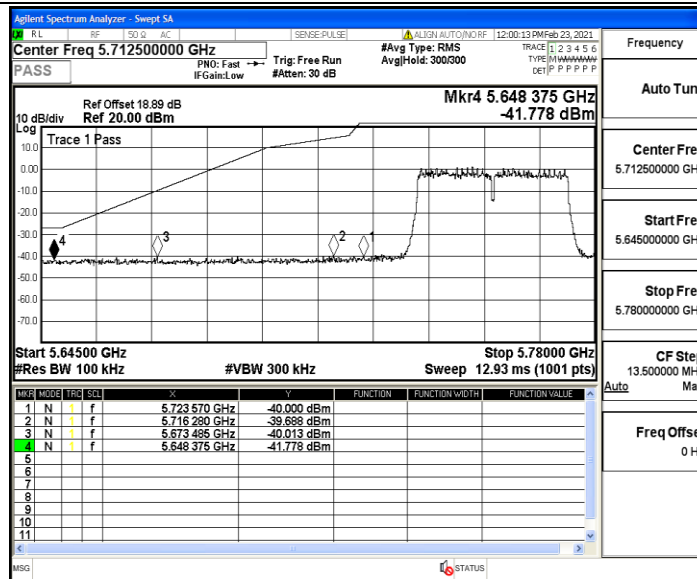


11AC20MIMO\_Ant2\_Low\_5745

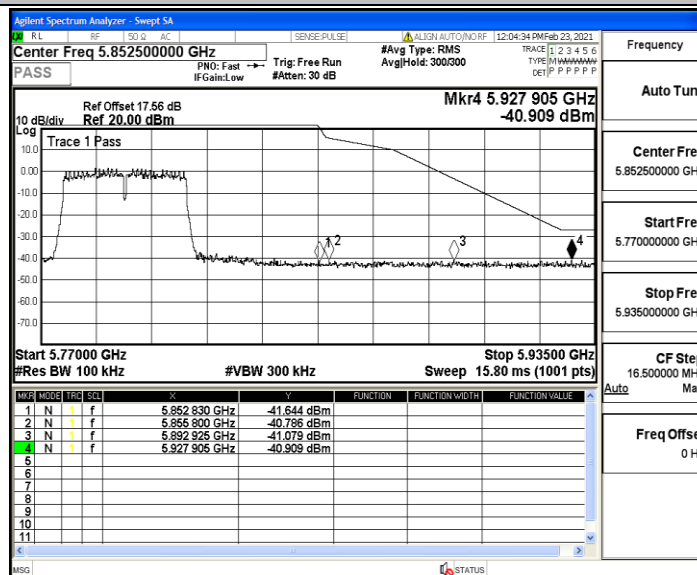


11AC20MIMO\_Ant1\_High\_5825

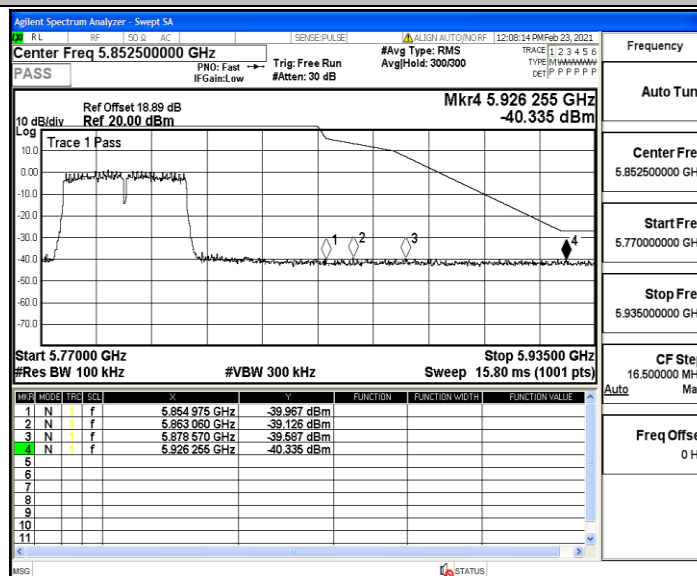




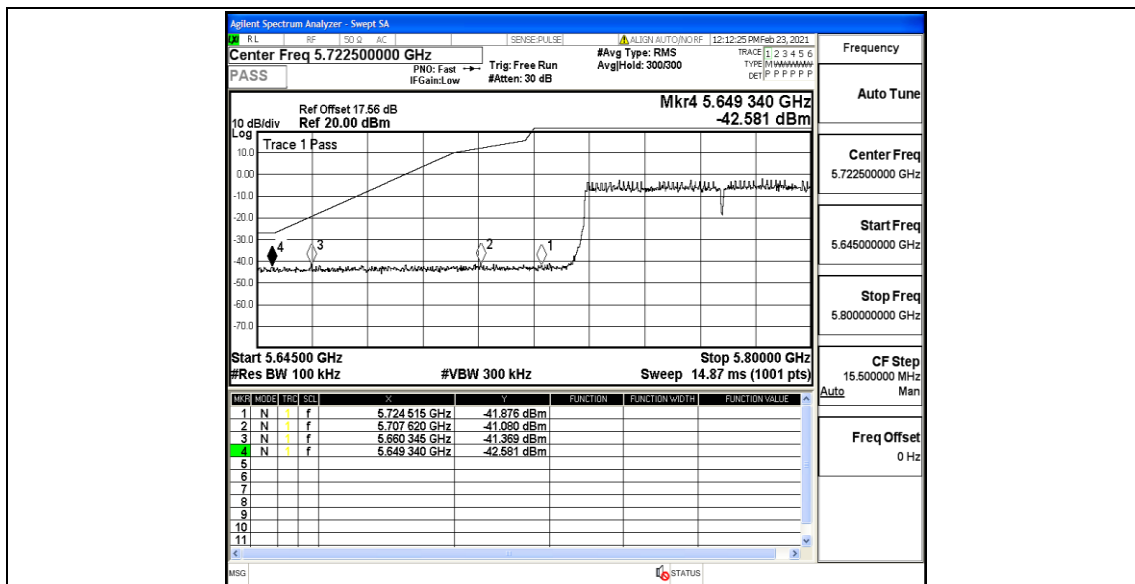
11AC40MIMO\_Ant1\_High\_5795



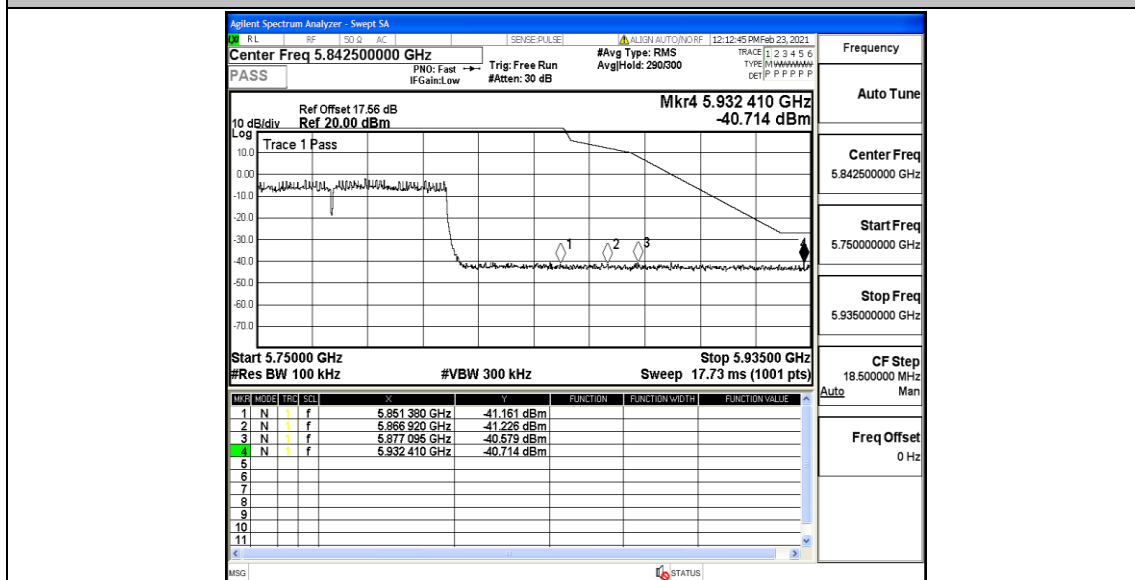
11AC40MIMO\_Ant2\_High\_5795



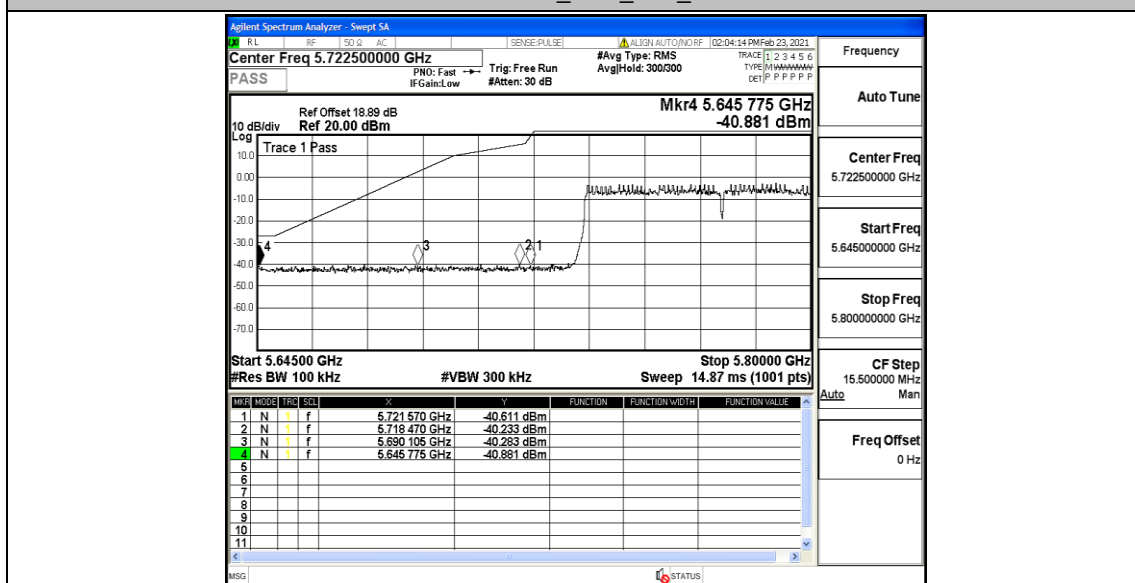
11AC80MIMO\_Ant1\_Low\_5775



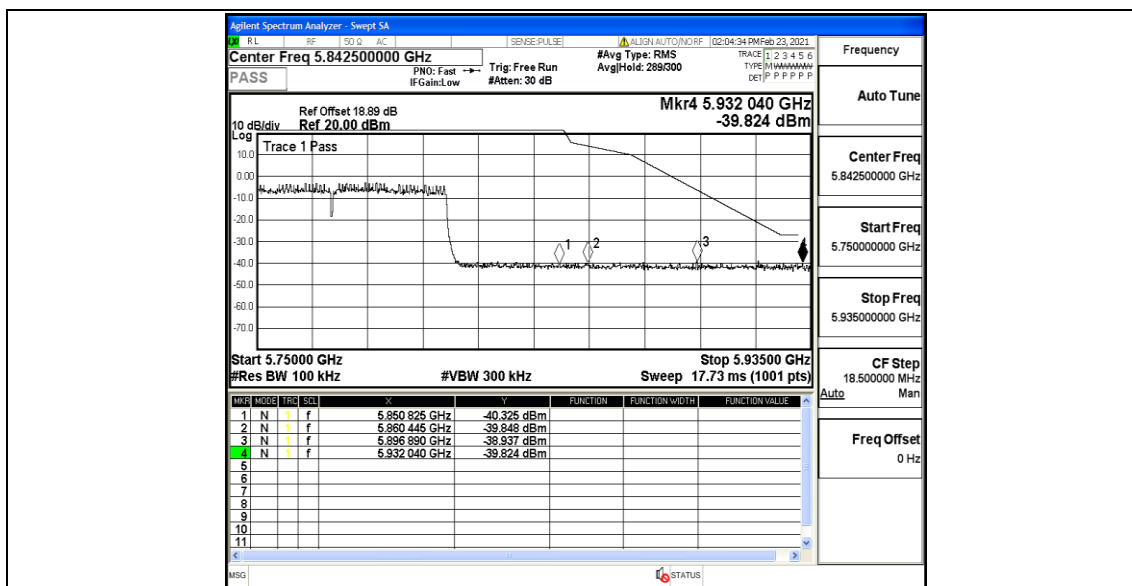
11AC80MIMO\_Ant1\_High\_5775



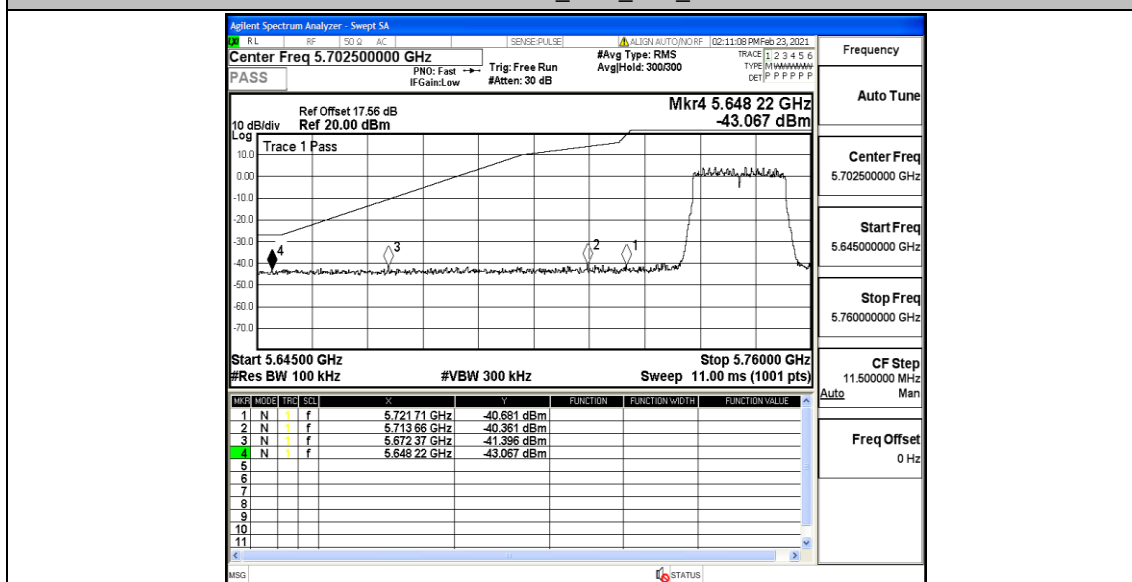
11AC80MIMO\_Ant2\_Low\_5775



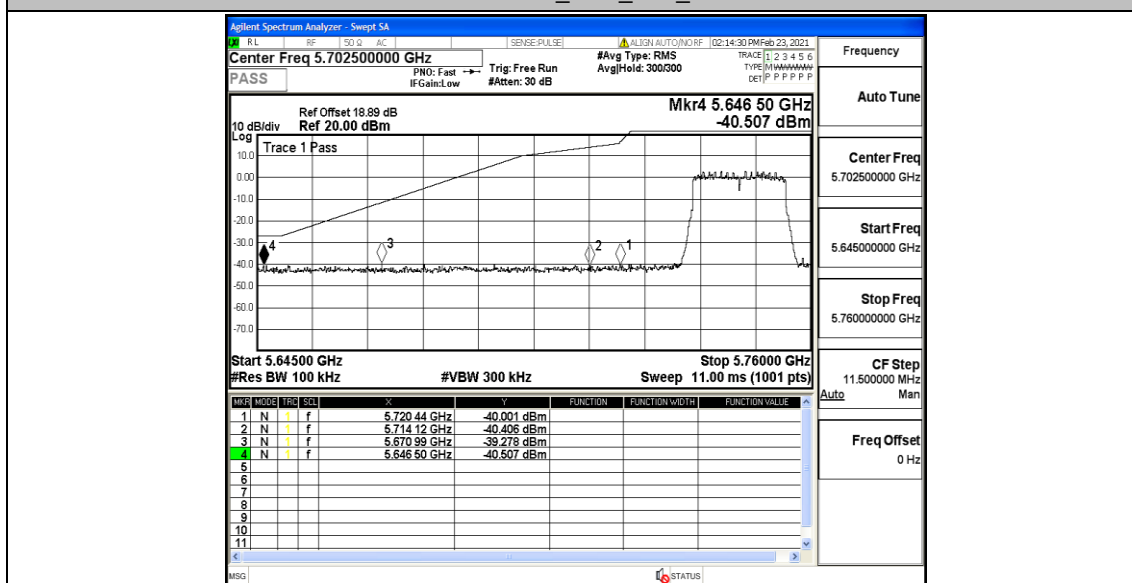
11AC80MIMO\_Ant2\_High\_5775



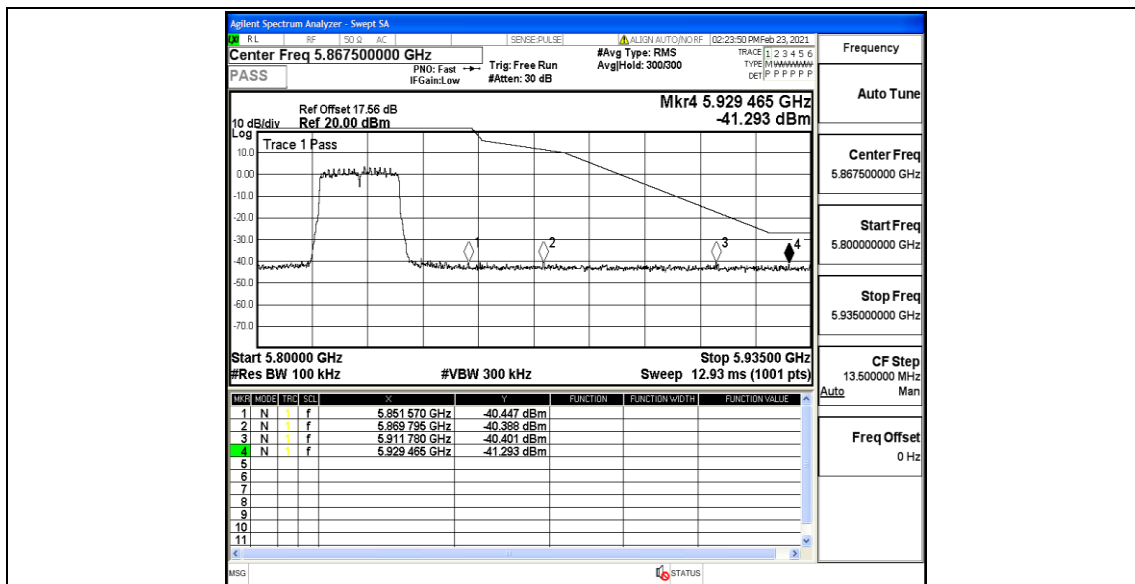
11AX20MIMO\_Ant1\_Low\_5745



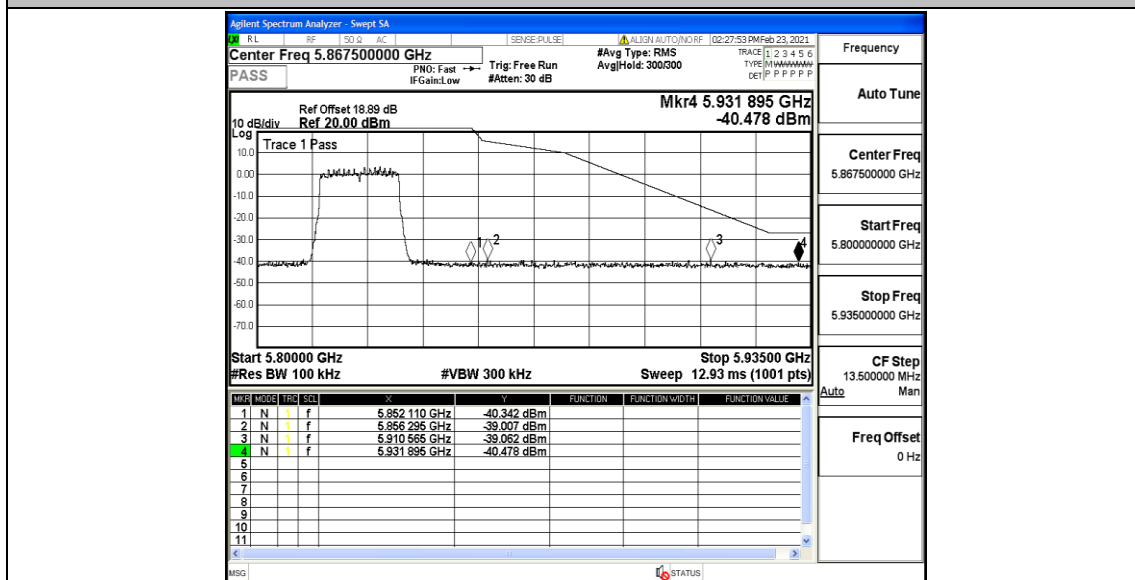
11AX20MIMO\_Ant2\_Low\_5745



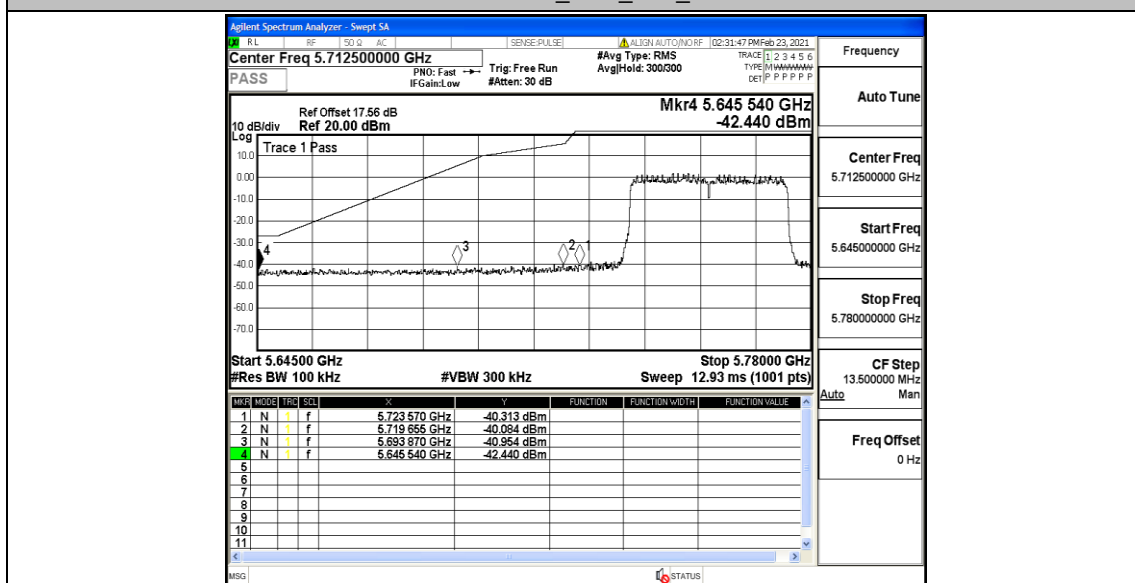
11AX20MIMO\_Ant1\_High\_5825



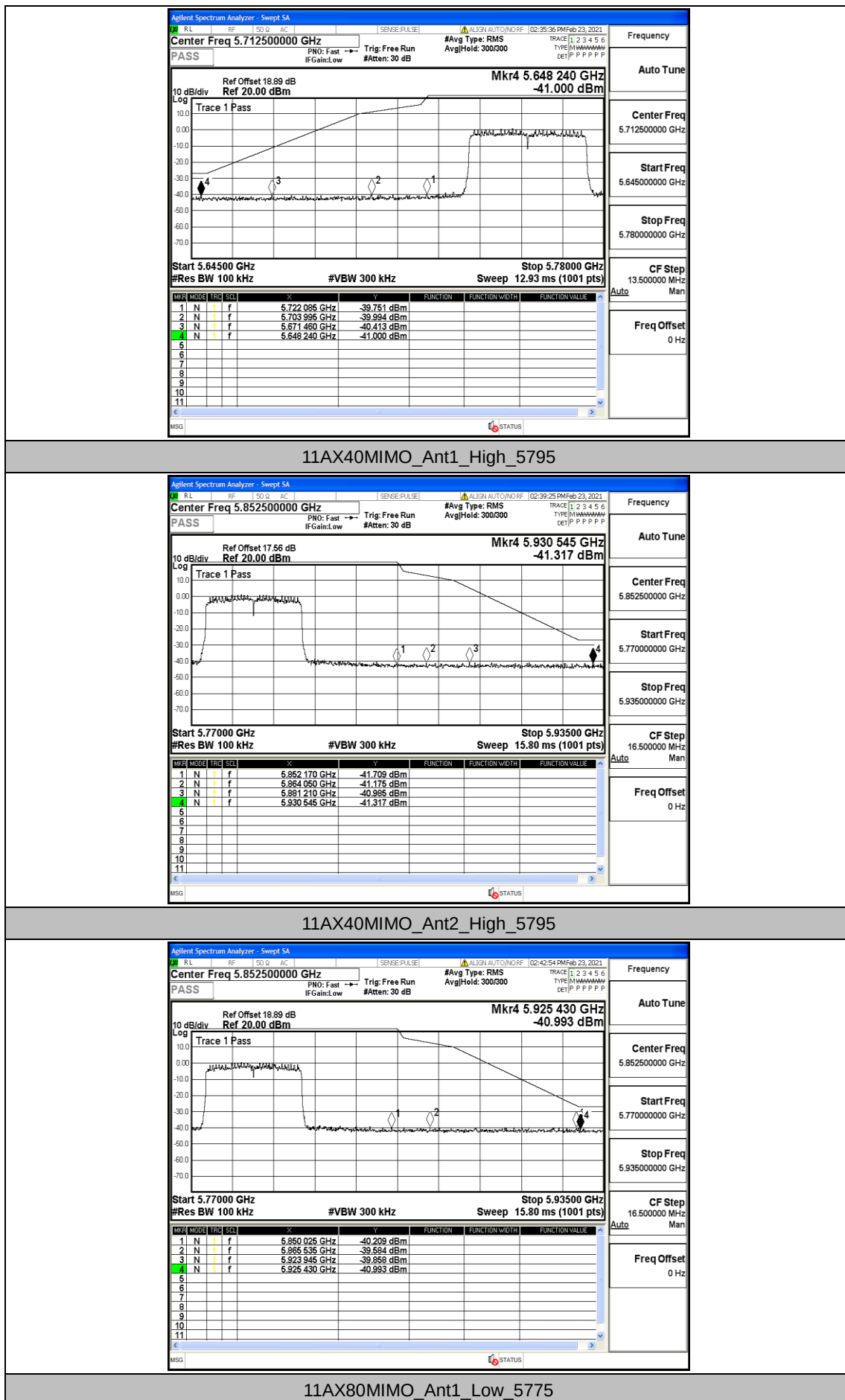
11AX20MIMO\_Ant2\_High\_5825

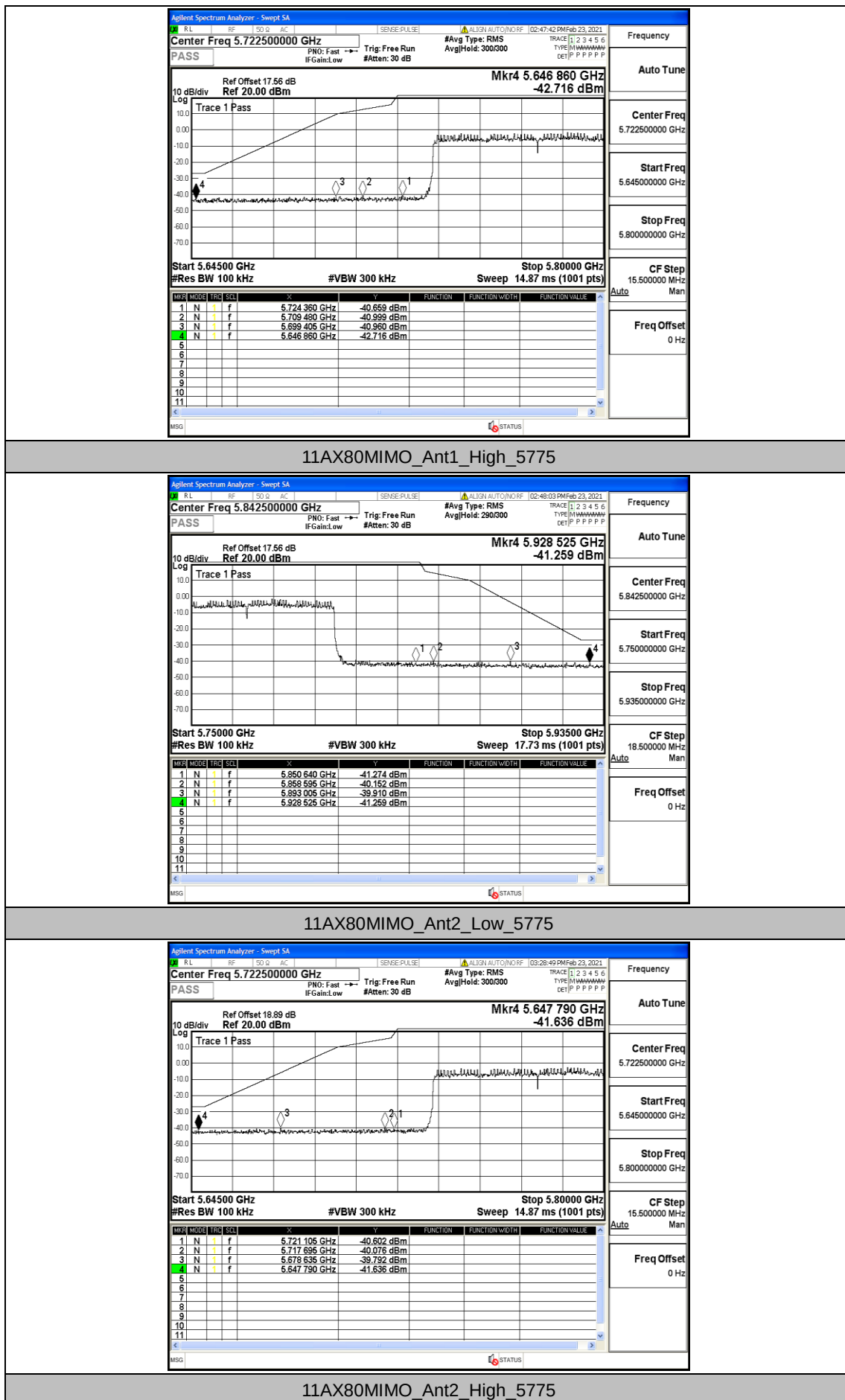


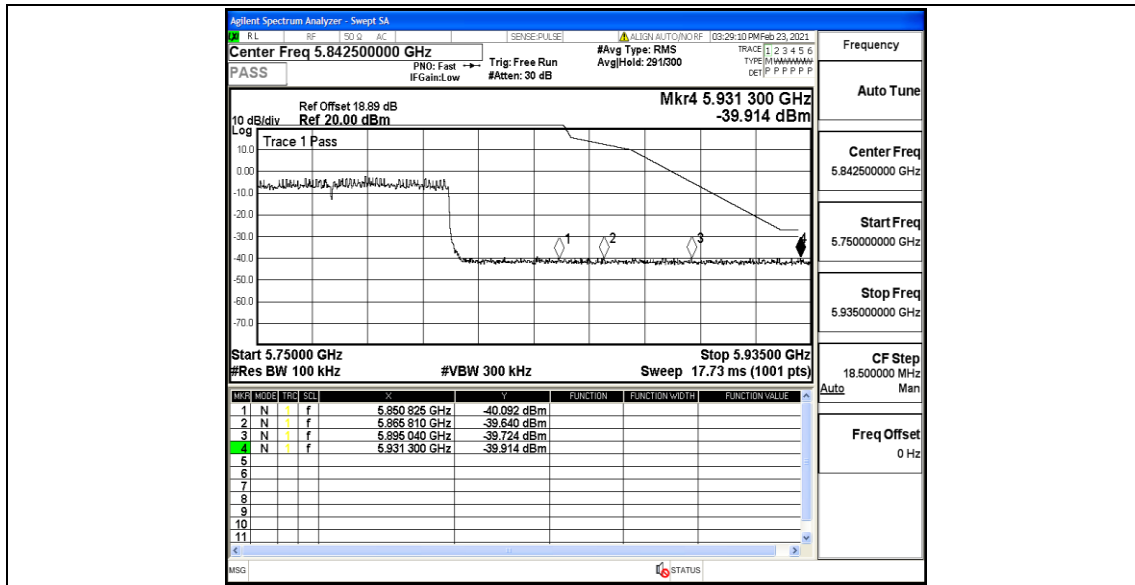
11AX40MIMO\_Ant1\_Low\_5755



11AX40MIMO\_Ant2\_Low\_5755







## Appendix E: Frequency Stability

### Test Result

#### Ant 1

| Frequency<br>(MHz) | Environment<br>Temperature<br>(Degree) | Voltage<br>(VAC) | Measured<br>Frequency<br>(MHz) | Limit Range<br>(MHz) | Test Results |
|--------------------|----------------------------------------|------------------|--------------------------------|----------------------|--------------|
| 5745               | 20                                     | 132              | 5744.931454                    | 5745 – 5825          | PASS         |
| 5745               | 20                                     | 108              | 5744.900049                    | 5746 – 5825          | PASS         |
| 5745               | 50                                     | 120              | 5745.062273                    | 5747 – 5825          | PASS         |
| 5745               | 40                                     | 120              | 5744.995120                    | 5748 – 5825          | PASS         |
| 5745               | 30                                     | 120              | 5745.026341                    | 5749 – 5825          | PASS         |
| 5745               | 20                                     | 120              | 5744.934007                    | 5750 – 5825          | PASS         |
| 5745               | 10                                     | 120              | 5745.073381                    | 5751 – 5825          | PASS         |
| 5745               | 0                                      | 120              | 5745.064903                    | 5752 – 5825          | PASS         |
| 5745               | -10                                    | 120              | 5744.908819                    | 5753 – 5825          | PASS         |
| 5745               | -20                                    | 120              | 5745.089772                    | 5754 – 5825          | PASS         |
| 5745               | -30                                    | 120              | 5745.025014                    | 5755 – 5825          | PASS         |

#### Ant 2

| Frequency<br>(MHz) | Environment<br>Temperature<br>(Degree) | Voltage<br>(VAC) | Measured<br>Frequency<br>(MHz) | Limit Range<br>(MHz) | Test Results |
|--------------------|----------------------------------------|------------------|--------------------------------|----------------------|--------------|
| 5745               | 20                                     | 132              | 5745.095089                    | 5745 – 5825          | PASS         |
| 5745               | 20                                     | 108              | 5744.935261                    | 5745 – 5825          | PASS         |
| 5745               | 50                                     | 120              | 5745.074573                    | 5745 – 5825          | PASS         |
| 5745               | 40                                     | 120              | 5744.984237                    | 5745 – 5825          | PASS         |
| 5745               | 30                                     | 120              | 5744.905824                    | 5745 – 5825          | PASS         |
| 5745               | 20                                     | 120              | 5744.976499                    | 5745 – 5825          | PASS         |
| 5745               | 10                                     | 120              | 5744.924052                    | 5745 – 5825          | PASS         |
| 5745               | 0                                      | 120              | 5745.043466                    | 5745 – 5825          | PASS         |
| 5745               | -10                                    | 120              | 5744.966543                    | 5745 – 5825          | PASS         |
| 5745               | -20                                    | 120              | 5745.017671                    | 5745 – 5825          | PASS         |
| 5745               | -30                                    | 120              | 5744.944728                    | 5745 – 5825          | PASS         |

**Ant 1**

| Frequency<br>(MHz) | Enviroment<br>Temperature<br>(Degree) | Voltage<br>(VAC) | Measured<br>Frequency<br>(MHz) | Limit Range<br>(MHz) | Test Results |
|--------------------|---------------------------------------|------------------|--------------------------------|----------------------|--------------|
| 5785               | 20                                    | 132              | 5784.997911                    | 5745 – 5825          | PASS         |
| 5785               | 20                                    | 108              | 5784.943056                    | 5746 – 5825          | PASS         |
| 5785               | 50                                    | 120              | 5785.001044                    | 5747 – 5825          | PASS         |
| 5785               | 40                                    | 120              | 5784.922116                    | 5748 – 5825          | PASS         |
| 5785               | 30                                    | 120              | 5785.082932                    | 5749 – 5825          | PASS         |
| 5785               | 20                                    | 120              | 5785.013337                    | 5750 – 5825          | PASS         |
| 5785               | 10                                    | 120              | 5784.957020                    | 5751 – 5825          | PASS         |
| 5785               | 0                                     | 120              | 5784.989732                    | 5752 – 5825          | PASS         |
| 5785               | -10                                   | 120              | 5784.993007                    | 5753 – 5825          | PASS         |
| 5785               | -20                                   | 120              | 5785.076139                    | 5754 – 5825          | PASS         |
| 5785               | -30                                   | 120              | 5785.086846                    | 5755 – 5825          | PASS         |

**Ant 2**

| Frequency<br>(MHz) | Enviroment<br>Temperature<br>(Degree) | Voltage<br>(VAC) | Measured<br>Frequency<br>(MHz) | Limit Range<br>(MHz) | Test Results |
|--------------------|---------------------------------------|------------------|--------------------------------|----------------------|--------------|
| 5785               | 20                                    | 132              | 5785.044574                    | 5745 – 5825          | PASS         |
| 5785               | 20                                    | 108              | 5785.066442                    | 5746 – 5825          | PASS         |
| 5785               | 50                                    | 120              | 5784.908101                    | 5747 – 5825          | PASS         |
| 5785               | 40                                    | 120              | 5785.044683                    | 5748 – 5825          | PASS         |
| 5785               | 30                                    | 120              | 5784.969352                    | 5749 – 5825          | PASS         |
| 5785               | 20                                    | 120              | 5784.918651                    | 5750 – 5825          | PASS         |
| 5785               | 10                                    | 120              | 5785.066722                    | 5751 – 5825          | PASS         |
| 5785               | 0                                     | 120              | 5785.081225                    | 5752 – 5825          | PASS         |
| 5785               | -10                                   | 120              | 5785.076433                    | 5753 – 5825          | PASS         |
| 5785               | -20                                   | 120              | 5784.914268                    | 5754 – 5825          | PASS         |
| 5785               | -30                                   | 120              | 5785.080220                    | 5755 – 5825          | PASS         |

**Ant 1**

| Frequency<br>(MHz) | Enviroment<br>Temperature<br>(Degree) | Voltage<br>(VAC) | Measured<br>Frequency<br>(MHz) | Limit Range<br>(MHz) | Test Results |
|--------------------|---------------------------------------|------------------|--------------------------------|----------------------|--------------|
| 5825               | 20                                    | 132              | 5825.024122                    | 5745 – 5825          | PASS         |
| 5825               | 20                                    | 108              | 5825.064195                    | 5746 – 5825          | PASS         |
| 5825               | 50                                    | 120              | 5824.930294                    | 5747 – 5825          | PASS         |
| 5825               | 40                                    | 120              | 5824.955430                    | 5748 – 5825          | PASS         |
| 5825               | 30                                    | 120              | 5824.907981                    | 5749 – 5825          | PASS         |
| 5825               | 20                                    | 120              | 5824.994885                    | 5750 – 5825          | PASS         |
| 5825               | 10                                    | 120              | 5824.902476                    | 5751 – 5825          | PASS         |
| 5825               | 0                                     | 120              | 5824.943502                    | 5752 – 5825          | PASS         |
| 5825               | -10                                   | 120              | 5825.040735                    | 5753 – 5825          | PASS         |
| 5825               | -20                                   | 120              | 5825.041023                    | 5754 – 5825          | PASS         |
| 5825               | -30                                   | 120              | 5824.905167                    | 5755 – 5825          | PASS         |

**Ant 2**

| Frequency<br>(MHz) | Enviroment<br>Temperature<br>(Degree) | Voltage<br>(VAC) | Measured<br>Frequency<br>(MHz) | Limit Range<br>(MHz) | Test Results |
|--------------------|---------------------------------------|------------------|--------------------------------|----------------------|--------------|
| 5825               | 20                                    | 132              | 5825.012670                    | 5745 – 5825          | PASS         |
| 5825               | 20                                    | 108              | 5825.070041                    | 5746 – 5825          | PASS         |
| 5825               | 50                                    | 120              | 5825.099379                    | 5747 – 5825          | PASS         |
| 5825               | 40                                    | 120              | 5824.939219                    | 5748 – 5825          | PASS         |
| 5825               | 30                                    | 120              | 5824.954179                    | 5749 – 5825          | PASS         |
| 5825               | 20                                    | 120              | 5825.057210                    | 5750 – 5825          | PASS         |
| 5825               | 10                                    | 120              | 5824.915416                    | 5751 – 5825          | PASS         |
| 5825               | 0                                     | 120              | 5824.950656                    | 5752 – 5825          | PASS         |
| 5825               | -10                                   | 120              | 5825.028956                    | 5753 – 5825          | PASS         |
| 5825               | -20                                   | 120              | 5825.083478                    | 5754 – 5825          | PASS         |
| 5825               | -30                                   | 120              | 5825.067191                    | 5755 – 5825          | PASS         |

**Ant 1**

| Frequency<br>(MHz) | Enviroment<br>Temperature<br>(Degree) | Voltage<br>(VAC) | Measured<br>Frequency<br>(MHz) | Limit Range<br>(MHz) | Test Results |
|--------------------|---------------------------------------|------------------|--------------------------------|----------------------|--------------|
| 5755               | 20                                    | 132              | 5754.999239                    | 5745 – 5825          | PASS         |
| 5755               | 20                                    | 108              | 5754.949732                    | 5746 – 5825          | PASS         |
| 5755               | 50                                    | 120              | 5754.983214                    | 5747 – 5825          | PASS         |
| 5755               | 40                                    | 120              | 5754.939582                    | 5748 – 5825          | PASS         |
| 5755               | 30                                    | 120              | 5755.029378                    | 5749 – 5825          | PASS         |
| 5755               | 20                                    | 120              | 5754.951173                    | 5750 – 5825          | PASS         |
| 5755               | 10                                    | 120              | 5754.914694                    | 5751 – 5825          | PASS         |
| 5755               | 0                                     | 120              | 5755.096955                    | 5752 – 5825          | PASS         |
| 5755               | -10                                   | 120              | 5754.932002                    | 5753 – 5825          | PASS         |
| 5755               | -20                                   | 120              | 5754.988431                    | 5754 – 5825          | PASS         |
| 5755               | -30                                   | 120              | 5754.956910                    | 5755 – 5825          | PASS         |

**Ant 2**

| Frequency<br>(MHz) | Enviroment<br>Temperature<br>(Degree) | Voltage<br>(VAC) | Measured<br>Frequency<br>(MHz) | Limit Range<br>(MHz) | Test Results |
|--------------------|---------------------------------------|------------------|--------------------------------|----------------------|--------------|
| 5755               | 20                                    | 132              | 5755.071681                    | 5745 – 5825          | PASS         |
| 5755               | 20                                    | 108              | 5754.953956                    | 5746 – 5825          | PASS         |
| 5755               | 50                                    | 120              | 5755.097689                    | 5747 – 5825          | PASS         |
| 5755               | 40                                    | 120              | 5755.043109                    | 5748 – 5825          | PASS         |
| 5755               | 30                                    | 120              | 5755.087759                    | 5749 – 5825          | PASS         |
| 5755               | 20                                    | 120              | 5755.066554                    | 5750 – 5825          | PASS         |
| 5755               | 10                                    | 120              | 5755.025376                    | 5751 – 5825          | PASS         |
| 5755               | 0                                     | 120              | 5754.949460                    | 5752 – 5825          | PASS         |
| 5755               | -10                                   | 120              | 5755.022781                    | 5753 – 5825          | PASS         |
| 5755               | -20                                   | 120              | 5755.047996                    | 5754 – 5825          | PASS         |
| 5755               | -30                                   | 120              | 5754.914536                    | 5755 – 5825          | PASS         |

**Ant 1**

| Frequency<br>(MHz) | Enviroment<br>Temperature<br>(Degree) | Voltage<br>(VAC) | Measured<br>Frequency<br>(MHz) | Limit Range<br>(MHz) | Test Results |
|--------------------|---------------------------------------|------------------|--------------------------------|----------------------|--------------|
| 5795               | 20                                    | 132              | 5794.933134                    | 5745 – 5825          | PASS         |
| 5795               | 20                                    | 108              | 5795.006033                    | 5745 – 5825          | PASS         |
| 5795               | 50                                    | 120              | 5794.975652                    | 5745 – 5825          | PASS         |
| 5795               | 40                                    | 120              | 5795.056920                    | 5745 – 5825          | PASS         |
| 5795               | 30                                    | 120              | 5794.947626                    | 5745 – 5825          | PASS         |
| 5795               | 20                                    | 120              | 5795.002544                    | 5745 – 5825          | PASS         |
| 5795               | 10                                    | 120              | 5795.086066                    | 5745 – 5825          | PASS         |
| 5795               | 0                                     | 120              | 5795.056721                    | 5745 – 5825          | PASS         |
| 5795               | -10                                   | 120              | 5795.046843                    | 5745 – 5825          | PASS         |
| 5795               | -20                                   | 120              | 5795.018201                    | 5745 – 5825          | PASS         |
| 5795               | -30                                   | 120              | 5795.011033                    | 5745 – 5825          | PASS         |

**Ant 2**

| Frequency<br>(MHz) | Enviroment<br>Temperature<br>(Degree) | Voltage<br>(VAC) | Measured<br>Frequency<br>(MHz) | Limit Range<br>(MHz) | Test Results |
|--------------------|---------------------------------------|------------------|--------------------------------|----------------------|--------------|
| 5795               | 20                                    | 132              | 5794.993007                    | 5745 – 5825          | PASS         |
| 5795               | 20                                    | 108              | 5795.008095                    | 5746 – 5825          | PASS         |
| 5795               | 50                                    | 120              | 5794.944527                    | 5747 – 5825          | PASS         |
| 5795               | 40                                    | 120              | 5795.055196                    | 5748 – 5825          | PASS         |
| 5795               | 30                                    | 120              | 5794.902407                    | 5749 – 5825          | PASS         |
| 5795               | 20                                    | 120              | 5794.972198                    | 5750 – 5825          | PASS         |
| 5795               | 10                                    | 120              | 5795.035132                    | 5751 – 5825          | PASS         |
| 5795               | 0                                     | 120              | 5795.087038                    | 5752 – 5825          | PASS         |
| 5795               | -10                                   | 120              | 5795.076153                    | 5753 – 5825          | PASS         |
| 5795               | -20                                   | 120              | 5794.919568                    | 5754 – 5825          | PASS         |
| 5795               | -30                                   | 120              | 5794.967738                    | 5755 – 5825          | PASS         |

**Ant 1**

| Frequency<br>(MHz) | Enviroment<br>Temperature<br>(Degree) | Voltage<br>(VAC) | Measured<br>Frequency<br>(MHz) | Limit Range<br>(MHz) | Test Results |
|--------------------|---------------------------------------|------------------|--------------------------------|----------------------|--------------|
| 5775               | 20                                    | 132              | 5774.978715                    | 5745 – 5825          | PASS         |
| 5775               | 20                                    | 108              | 5774.918457                    | 5746 – 5825          | PASS         |
| 5775               | 50                                    | 120              | 5775.034697                    | 5747 – 5825          | PASS         |
| 5775               | 40                                    | 120              | 5774.919554                    | 5748 – 5825          | PASS         |
| 5775               | 30                                    | 120              | 5774.947772                    | 5749 – 5825          | PASS         |
| 5775               | 20                                    | 120              | 5775.043718                    | 5750 – 5825          | PASS         |
| 5775               | 10                                    | 120              | 5775.009899                    | 5751 – 5825          | PASS         |
| 5775               | 0                                     | 120              | 5774.941830                    | 5752 – 5825          | PASS         |
| 5775               | -10                                   | 120              | 5775.087033                    | 5753 – 5825          | PASS         |
| 5775               | -20                                   | 120              | 5775.096946                    | 5754 – 5825          | PASS         |
| 5775               | -30                                   | 120              | 5775.073343                    | 5755 – 5825          | PASS         |

**Ant 2**

| Frequency<br>(MHz) | Enviroment<br>Temperature<br>(Degree) | Voltage<br>(VAC) | Measured<br>Frequency<br>(MHz) | Limit Range<br>(MHz) | Test Results |
|--------------------|---------------------------------------|------------------|--------------------------------|----------------------|--------------|
| 5775               | 20                                    | 132              | 5774.915109                    | 5745 – 5825          | PASS         |
| 5775               | 20                                    | 108              | 5775.065467                    | 5746 – 5825          | PASS         |
| 5775               | 50                                    | 120              | 5775.064705                    | 5747 – 5825          | PASS         |
| 5775               | 40                                    | 120              | 5774.915502                    | 5748 – 5825          | PASS         |
| 5775               | 30                                    | 120              | 5774.917216                    | 5749 – 5825          | PASS         |
| 5775               | 20                                    | 120              | 5774.916085                    | 5750 – 5825          | PASS         |
| 5775               | 10                                    | 120              | 5774.937085                    | 5751 – 5825          | PASS         |
| 5775               | 0                                     | 120              | 5775.084224                    | 5752 – 5825          | PASS         |
| 5775               | -10                                   | 120              | 5775.061339                    | 5753 – 5825          | PASS         |
| 5775               | -20                                   | 120              | 5774.956580                    | 5754 – 5825          | PASS         |
| 5775               | -30                                   | 120              | 5774.925426                    | 5755 – 5825          | PASS         |

## Appendix F: Duty Cycle

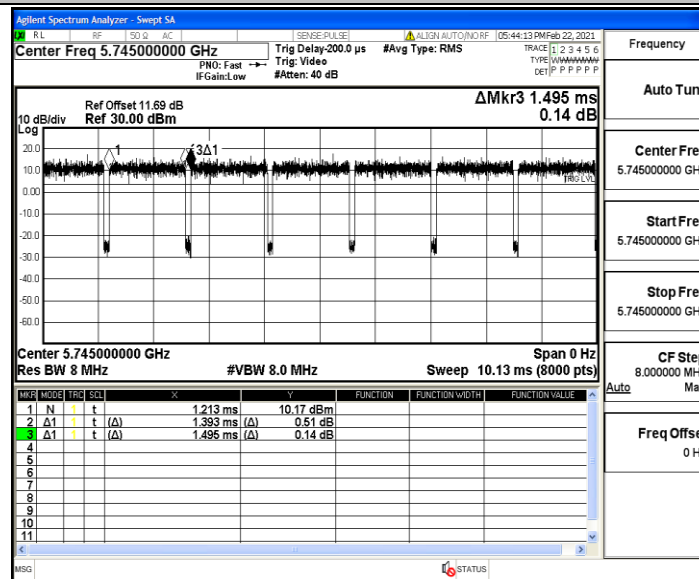
### Test Result

| TestMode   | Antenna | Channel | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] |
|------------|---------|---------|----------------------------|--------------------------|----------------|
| 11A        | Ant1    | 5745    | 1.39                       | 1.49                     | 93.29          |
|            | Ant2    | 5745    | 1.39                       | 1.41                     | 98.58          |
|            | Ant1    | 5785    | 1.39                       | 1.41                     | 98.58          |
|            | Ant2    | 5785    | 1.39                       | 1.41                     | 98.58          |
|            | Ant1    | 5825    | 1.39                       | 1.41                     | 98.58          |
|            | Ant2    | 5825    | 1.39                       | 1.41                     | 98.58          |
| 11N20MIMO  | Ant1    | 5745    | 0.16                       | 0.18                     | 88.89          |
|            | Ant2    | 5745    | 0.16                       | 0.18                     | 88.89          |
|            | Ant1    | 5785    | 0.16                       | 0.18                     | 88.89          |
|            | Ant2    | 5785    | 0.16                       | 0.18                     | 88.89          |
|            | Ant1    | 5825    | 0.16                       | 0.18                     | 88.89          |
|            | Ant2    | 5825    | 0.16                       | 0.18                     | 88.89          |
| 11N40MIMO  | Ant1    | 5755    | 0.10                       | 0.10                     | 100.00         |
|            | Ant2    | 5755    | 0.10                       | 0.12                     | 83.33          |
|            | Ant1    | 5795    | 0.10                       | 0.10                     | 100.00         |
|            | Ant2    | 5795    | 0.10                       | 0.12                     | 83.33          |
| 11AC20MIMO | Ant1    | 5745    | 0.36                       | 0.38                     | 94.74          |
|            | Ant2    | 5745    | 0.36                       | 0.38                     | 94.74          |
|            | Ant1    | 5785    | 0.36                       | 0.38                     | 94.74          |
|            | Ant2    | 5785    | 0.36                       | 0.38                     | 94.74          |
|            | Ant1    | 5825    | 0.36                       | 0.38                     | 94.74          |
|            | Ant2    | 5825    | 0.36                       | 0.38                     | 94.74          |
| 11AC40MIMO | Ant1    | 5755    | 0.09                       | 0.11                     | 81.82          |
|            | Ant2    | 5755    | 0.09                       | 0.11                     | 81.82          |
|            | Ant1    | 5795    | 0.09                       | 0.11                     | 81.82          |
|            | Ant2    | 5795    | 0.08                       | 0.09                     | 88.89          |
| 11AC80MIMO | Ant1    | 5775    | 0.06                       | 0.08                     | 75.00          |
|            | Ant2    | 5775    | 0.06                       | 0.08                     | 75.00          |
| 11AX20MIMO | Ant1    | 5745    | 0.12                       | 0.14                     | 85.71          |
|            | Ant2    | 5745    | 0.12                       | 0.14                     | 85.71          |
|            | Ant1    | 5785    | 0.12                       | 0.14                     | 85.71          |
|            | Ant2    | 5785    | 0.12                       | 0.14                     | 85.71          |
|            | Ant1    | 5825    | 0.12                       | 0.14                     | 85.71          |
|            | Ant2    | 5825    | 0.12                       | 0.14                     | 85.71          |
| 11AX40MIMO | Ant1    | 5755    | 0.08                       | 0.09                     | 88.89          |
|            | Ant2    | 5755    | 0.09                       | 0.11                     | 81.82          |
|            | Ant1    | 5795    | 0.08                       | 0.09                     | 88.89          |
|            | Ant2    | 5795    | 0.09                       | 0.11                     | 81.82          |

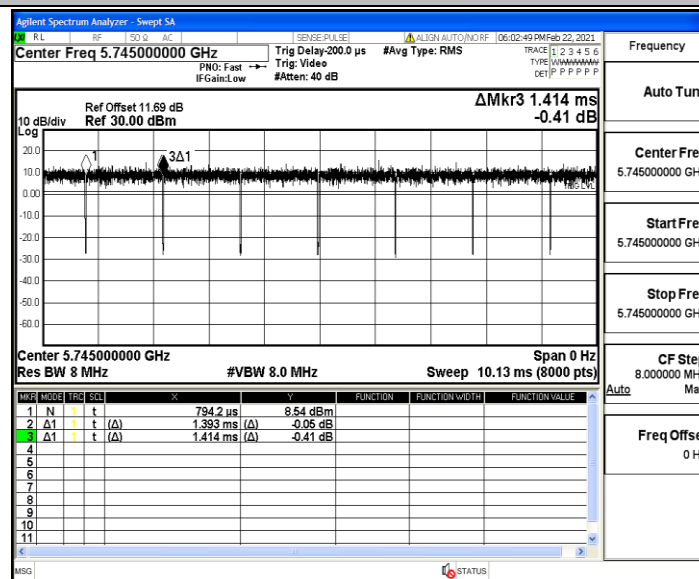
|            |      |      |      |      |        |
|------------|------|------|------|------|--------|
| 11AX80MIMO | Ant1 | 5775 | 0.08 | 0.10 | 80.00  |
|            | Ant2 | 5775 | 0.08 | 0.08 | 100.00 |

## Test Graphs

11A\_Ant1\_5745



11A\_Ant2\_5745



11A\_Ant1\_5785

