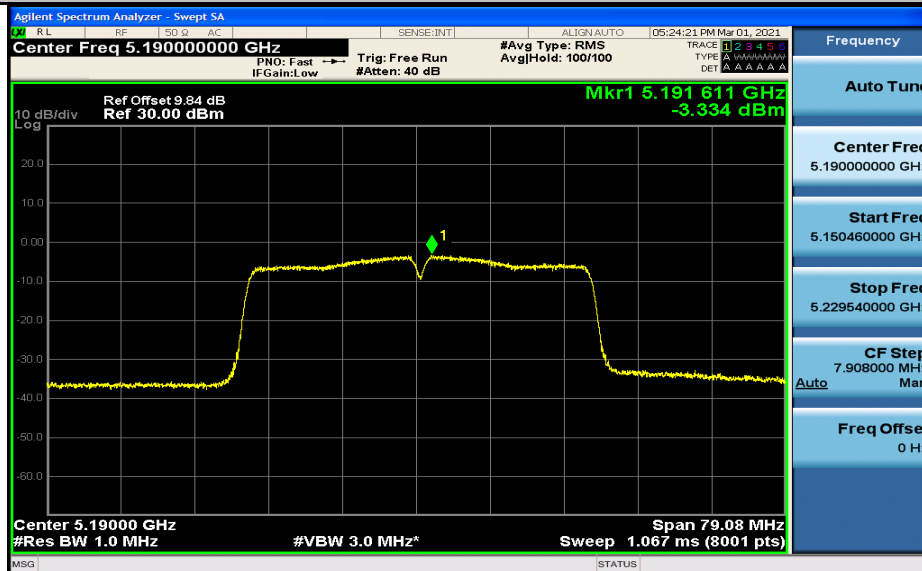
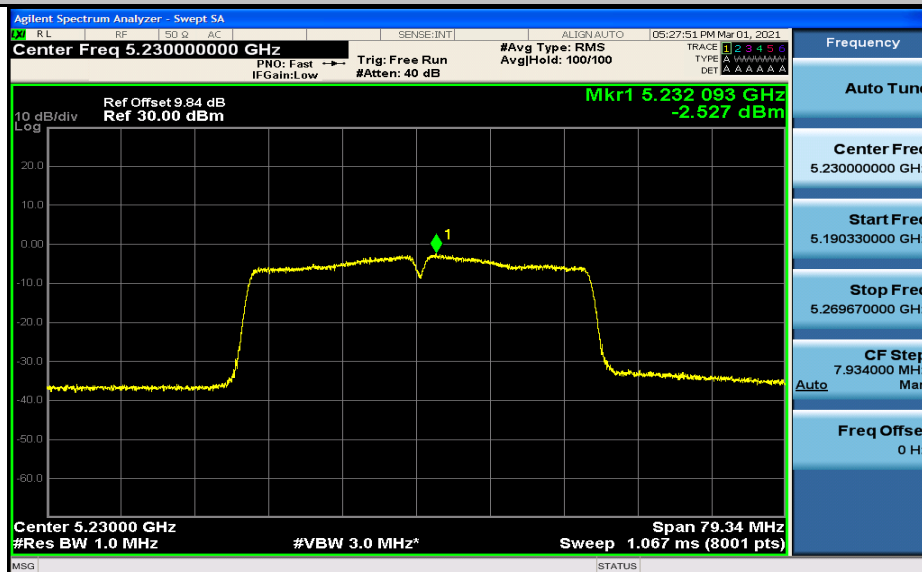


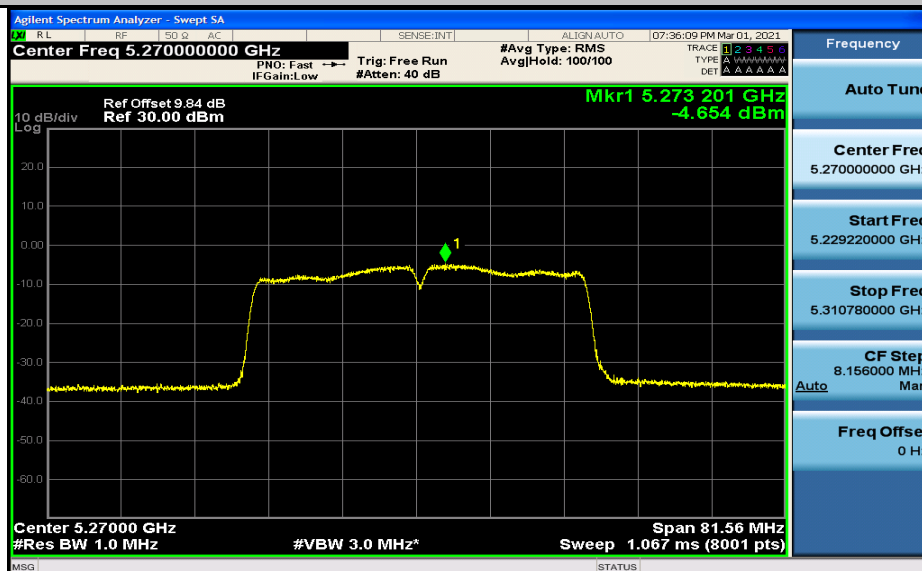
Maximum Power Spectral Density\_TNVN\_11N40\_5190\_Ant1



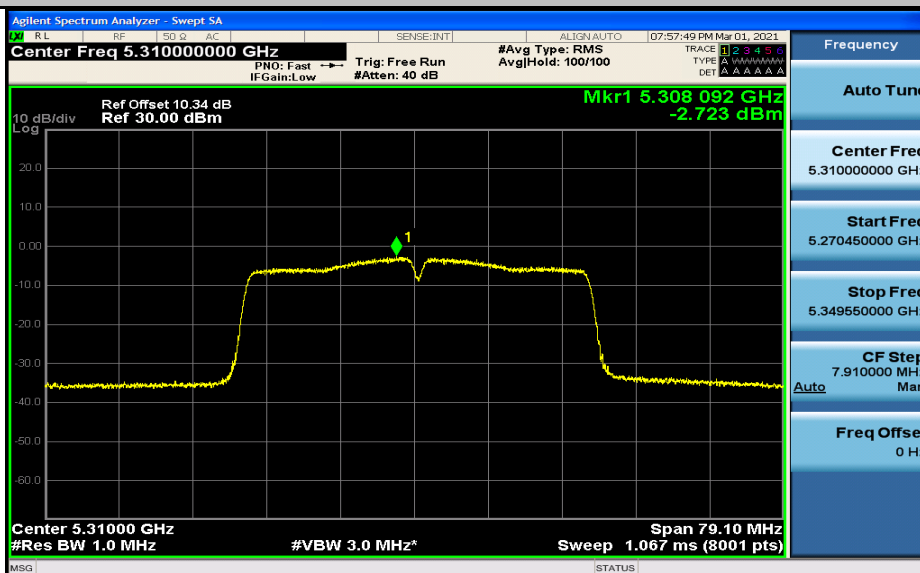
Maximum Power Spectral Density\_TNVN\_11N40\_5230\_Ant1



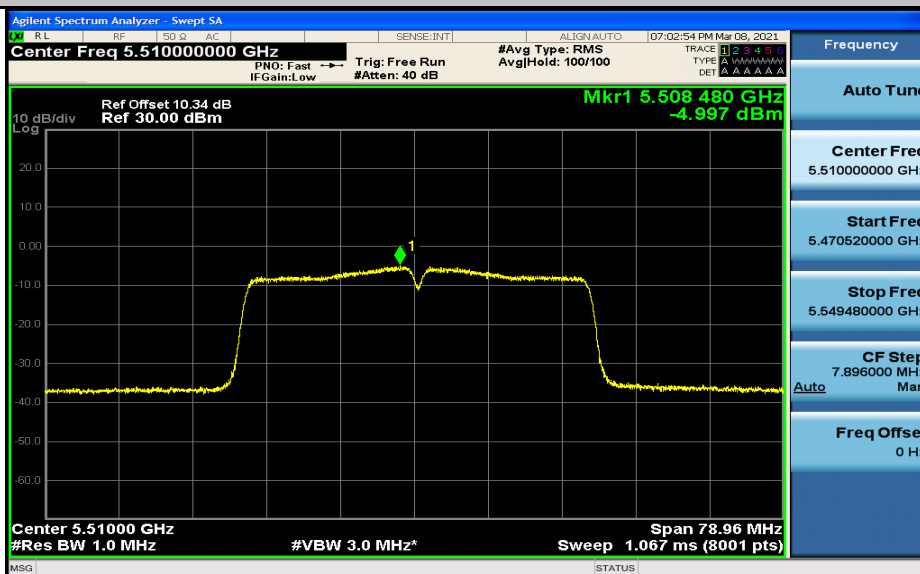
Maximum Power Spectral Density\_TNVN\_11N40\_5270\_Ant1



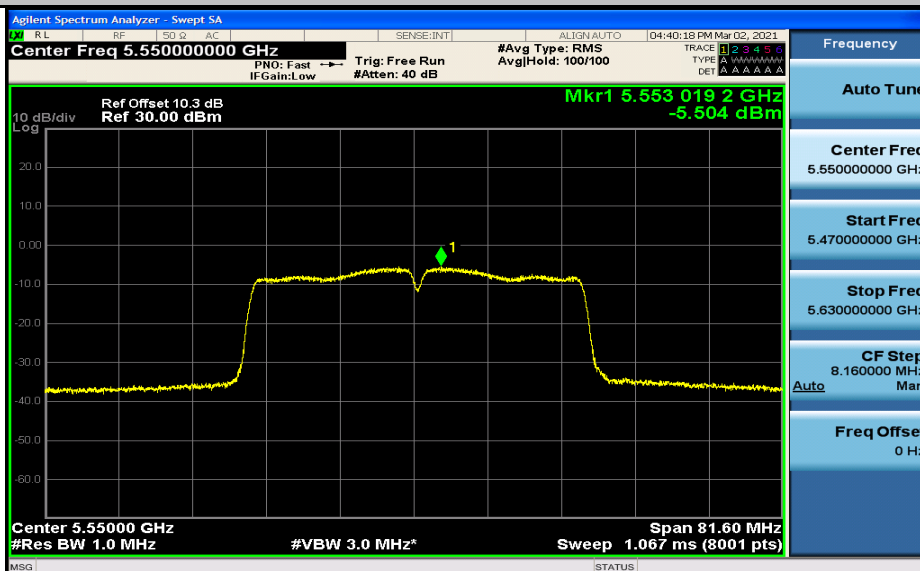
## Maximum Power Spectral Density\_TNVN\_11N40\_5310\_Ant1



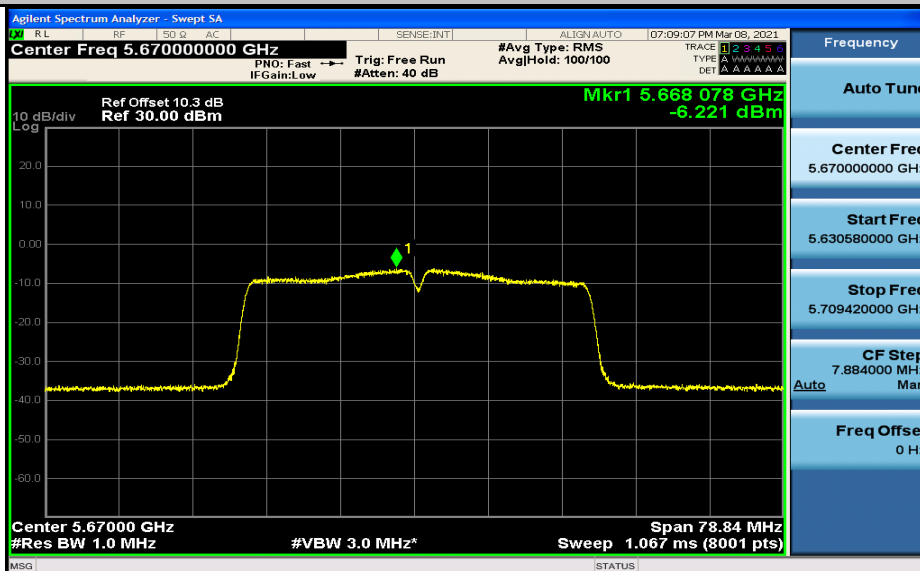
## Maximum Power Spectral Density\_TNVN\_11N40\_5510\_Ant1



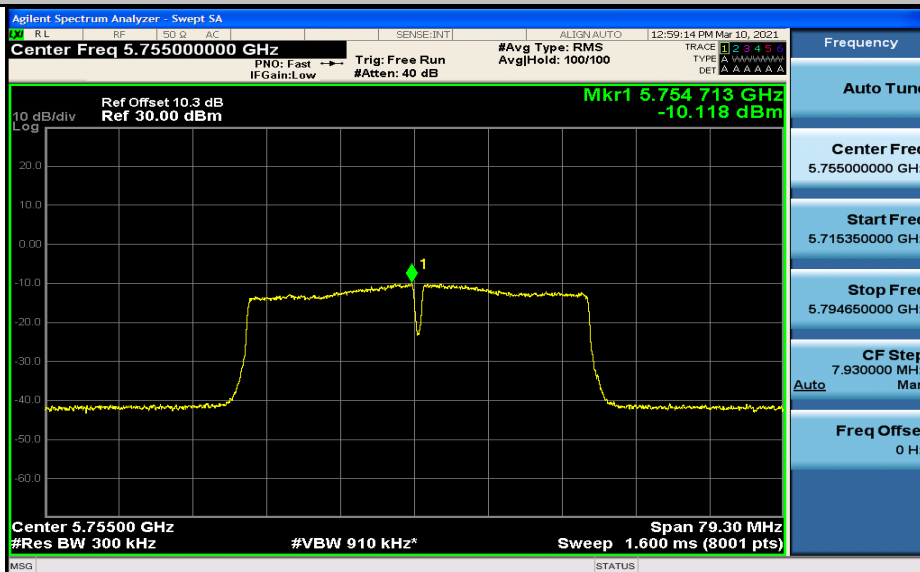
## Maximum Power Spectral Density\_TNVN\_11N40\_5550\_Ant1



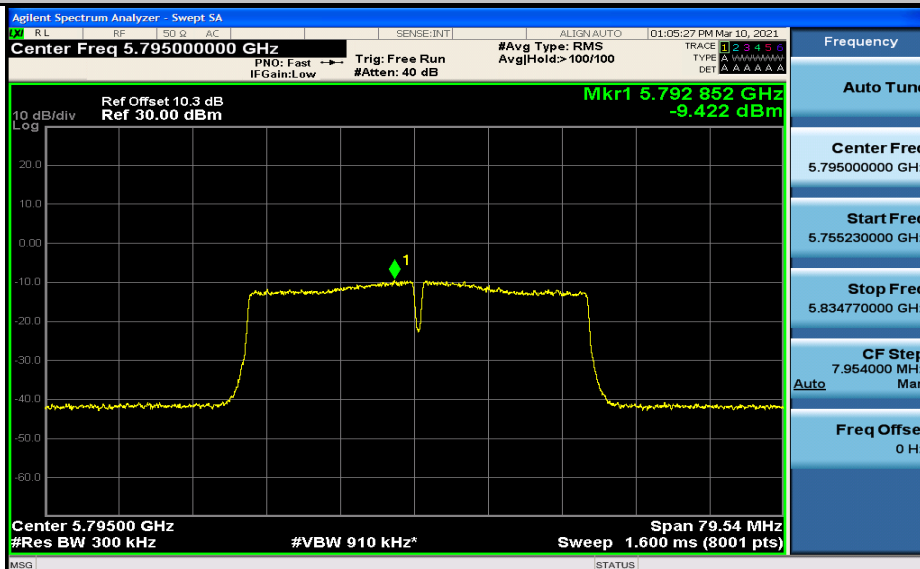
## Maximum Power Spectral Density\_TNVN\_11N40\_5670\_Ant1



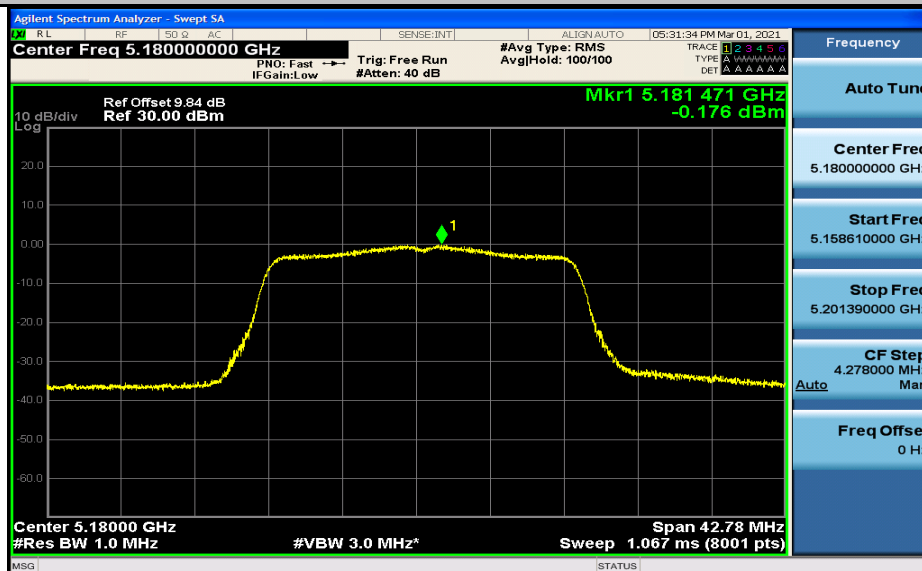
## Maximum Power Spectral Density\_TNVN\_11N40\_5755\_Ant1



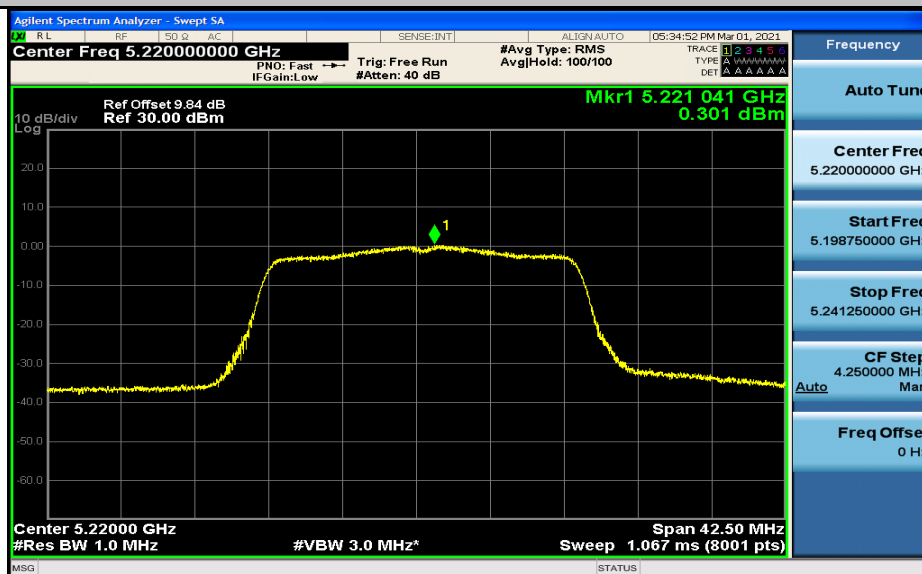
## Maximum Power Spectral Density\_TNVN\_11N40\_5795\_Ant1



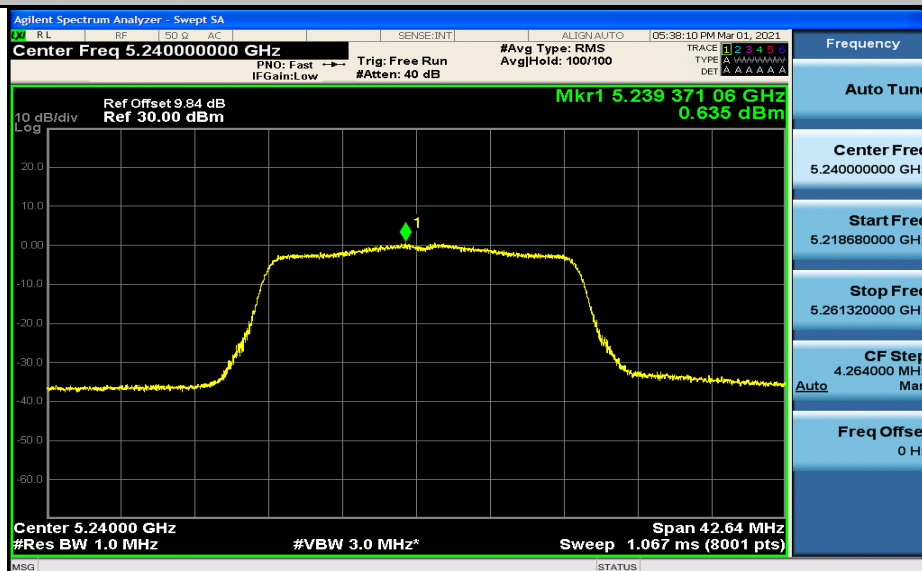
## Maximum Power Spectral Density\_TNVN\_11AC20\_5180\_Ant1



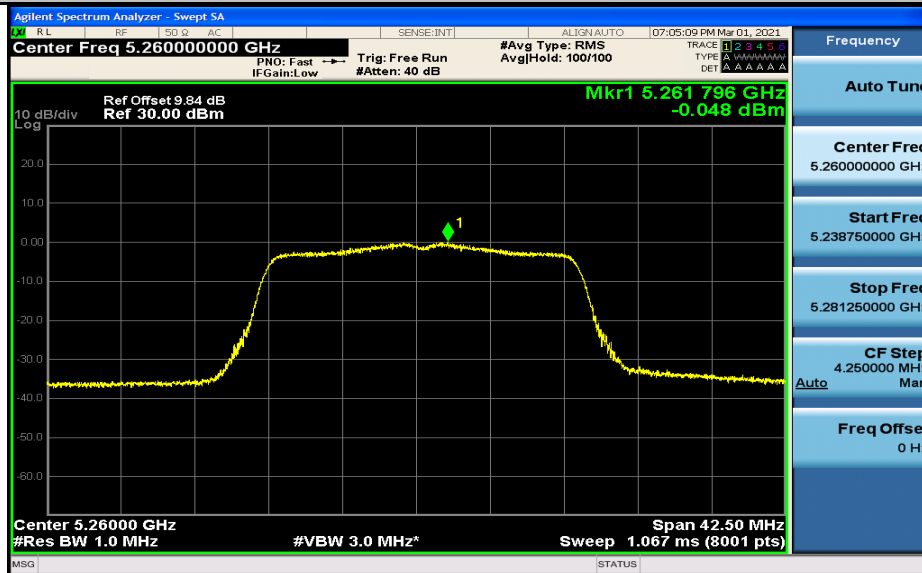
## Maximum Power Spectral Density\_TNVN\_11AC20\_5220\_Ant1



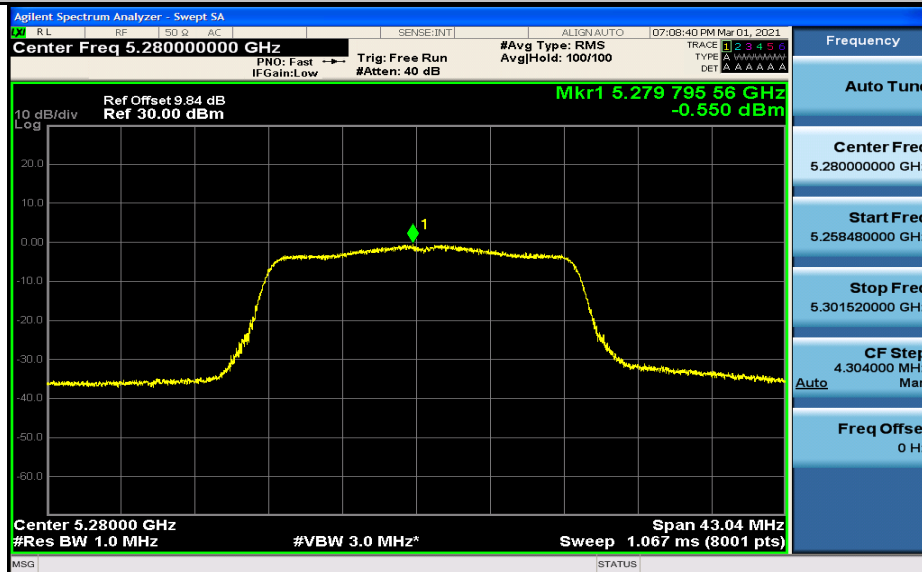
## Maximum Power Spectral Density\_TNVN\_11AC20\_5240\_Ant1



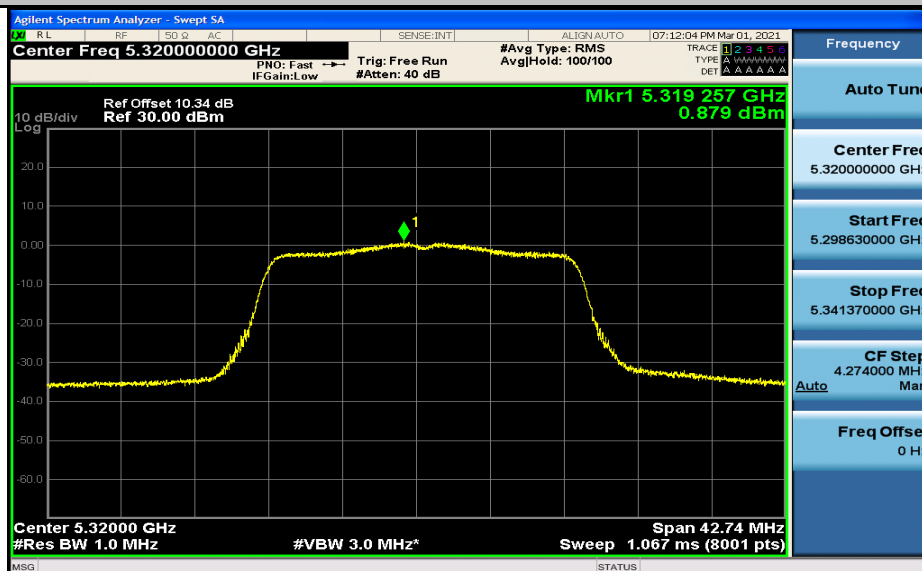
Maximum Power Spectral Density\_TNVN\_11AC20\_5260\_Ant1



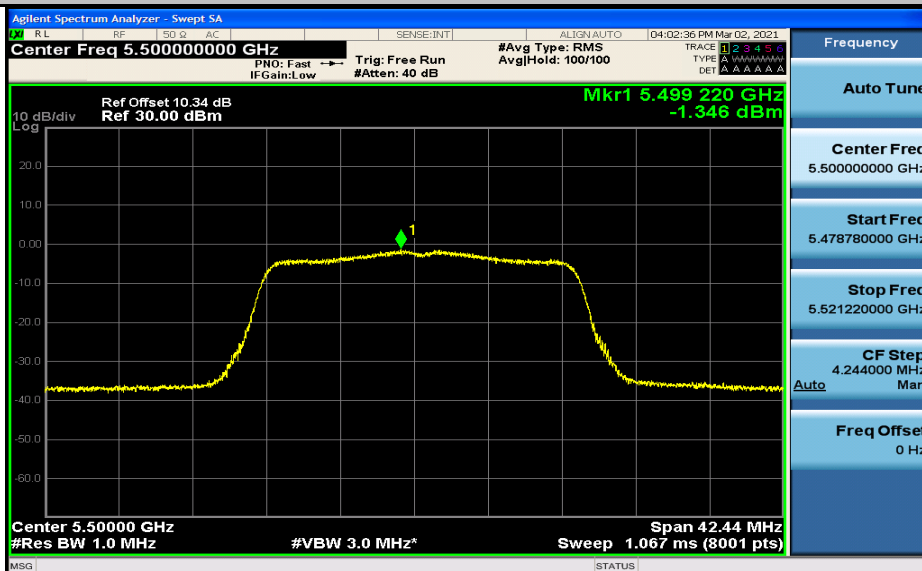
Maximum Power Spectral Density\_TNVN\_11AC20\_5280\_Ant1



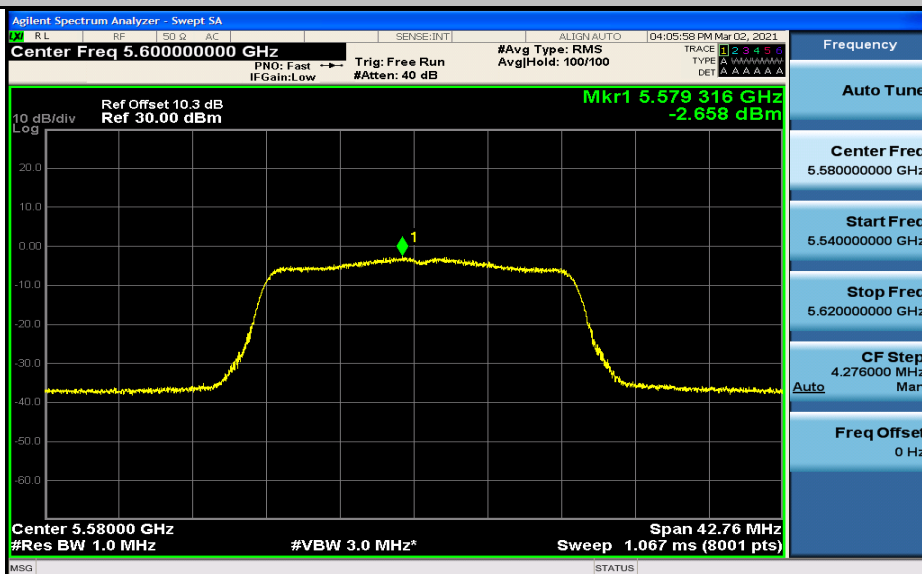
Maximum Power Spectral Density\_TNVN\_11AC20\_5320\_Ant1



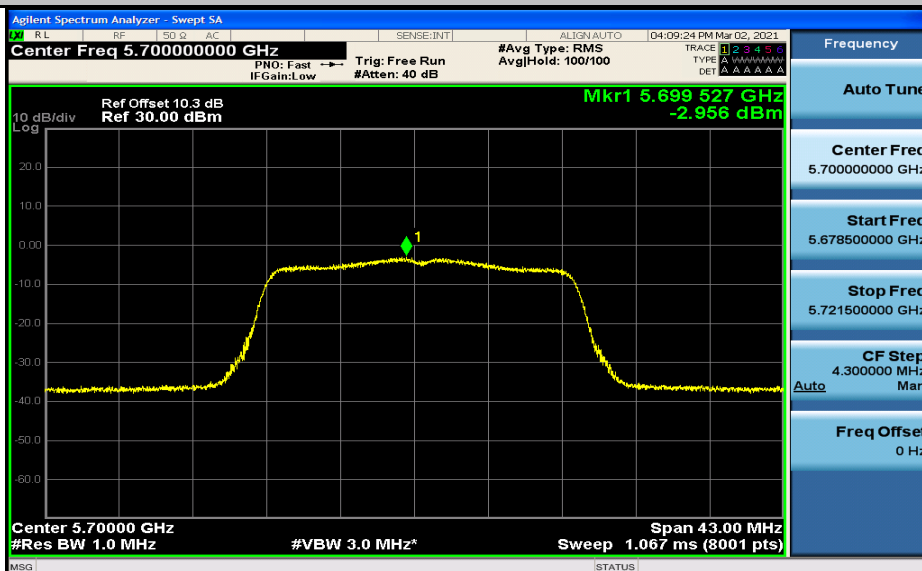
## Maximum Power Spectral Density\_TNVN\_11AC20\_5500\_Ant1



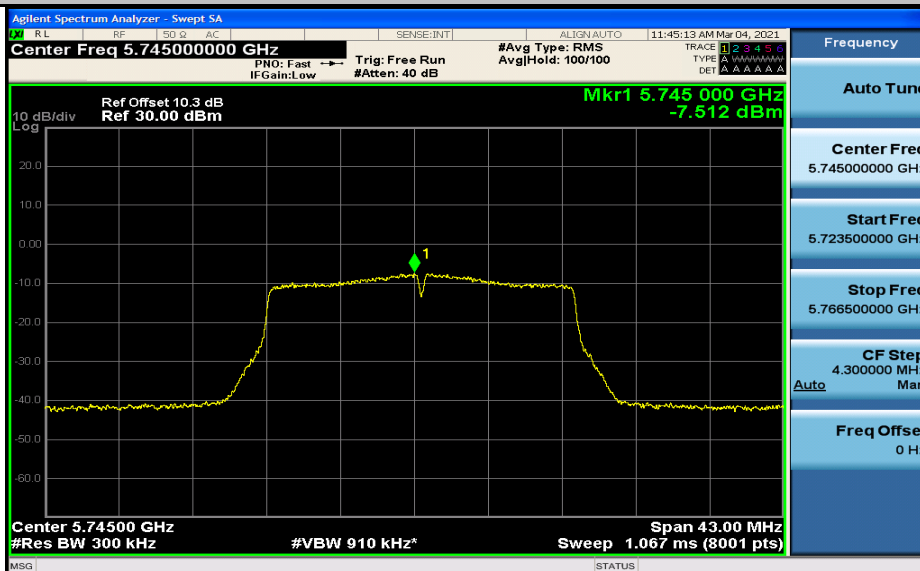
## Maximum Power Spectral Density\_TNVN\_11AC20\_5580\_Ant1



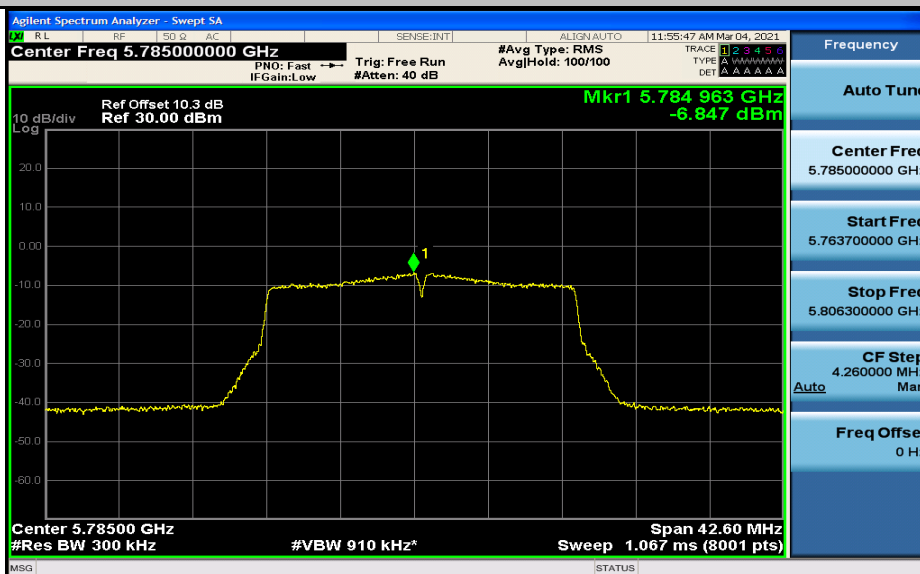
## Maximum Power Spectral Density\_TNVN\_11AC20\_5700\_Ant1



## Maximum Power Spectral Density\_TNVN\_11AC20\_5745\_Ant1



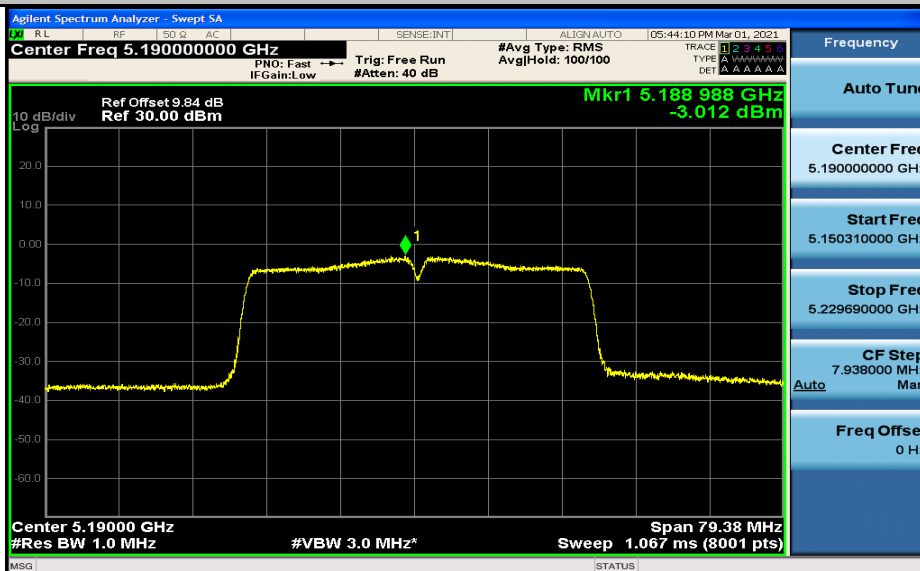
## Maximum Power Spectral Density\_TNVN\_11AC20\_5785\_Ant1



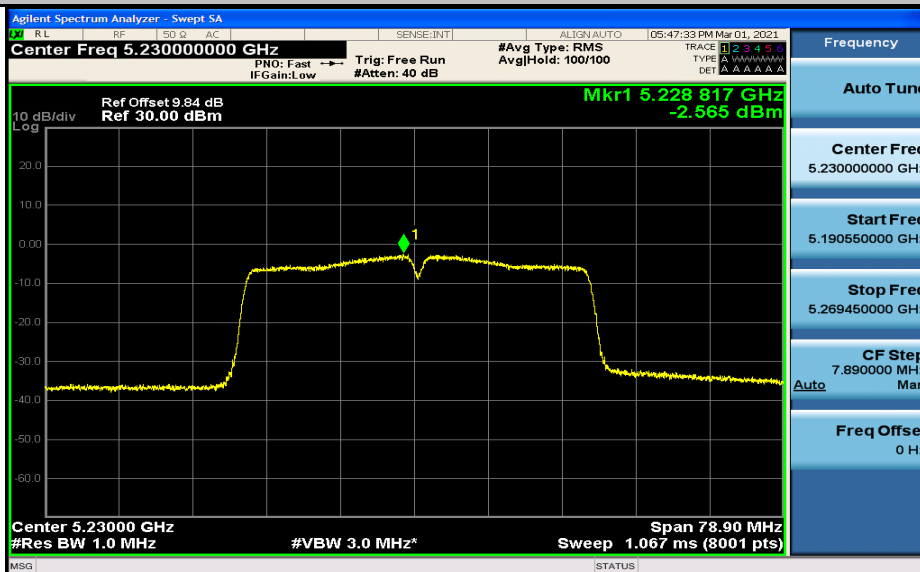
## Maximum Power Spectral Density\_TNVN\_11AC20\_5825\_Ant1



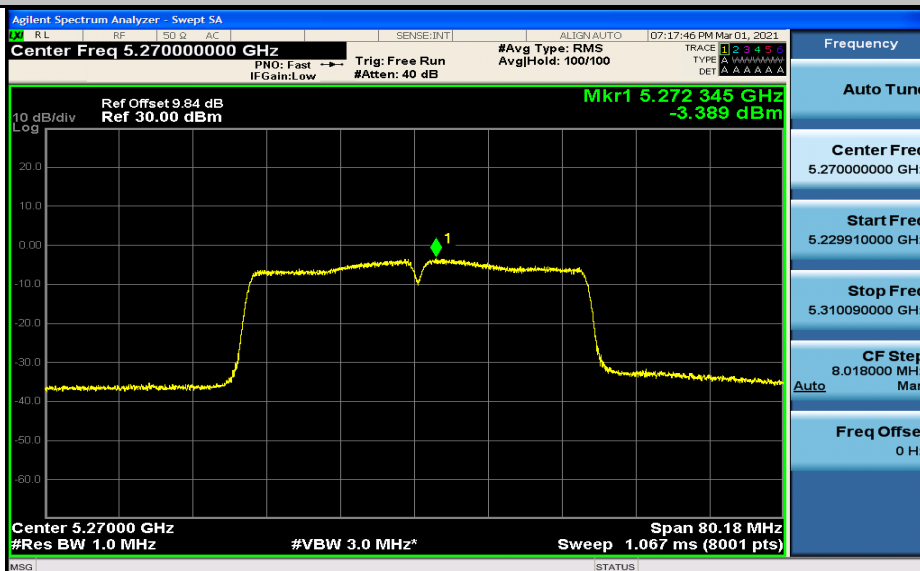
## Maximum Power Spectral Density\_TNVN\_11AC40\_5190\_Ant1



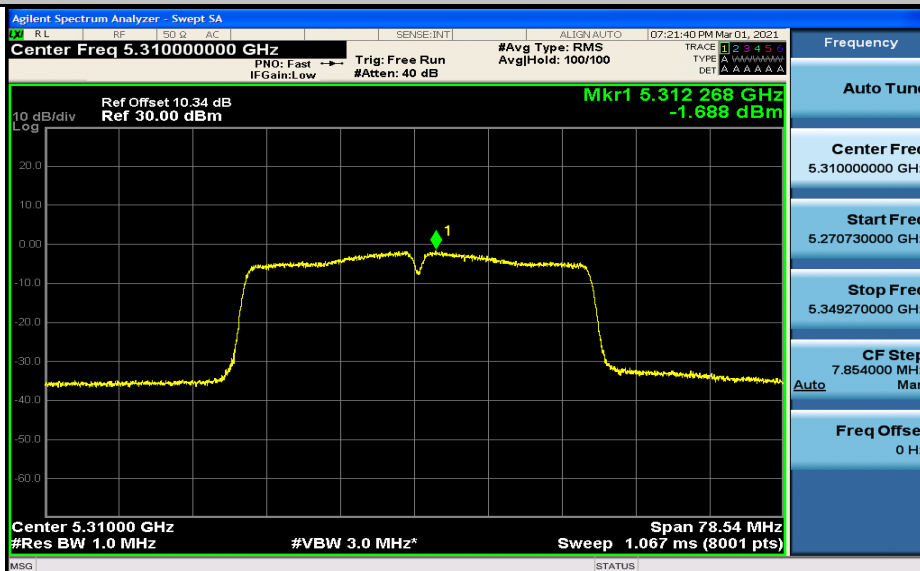
## Maximum Power Spectral Density\_TNVN\_11AC40\_5230\_Ant1



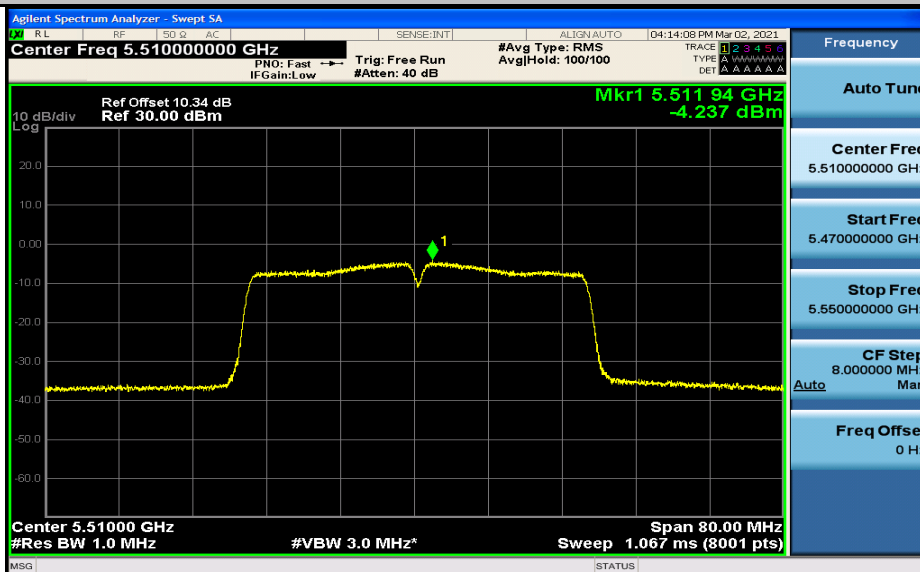
## Maximum Power Spectral Density\_TNVN\_11AC40\_5270\_Ant1



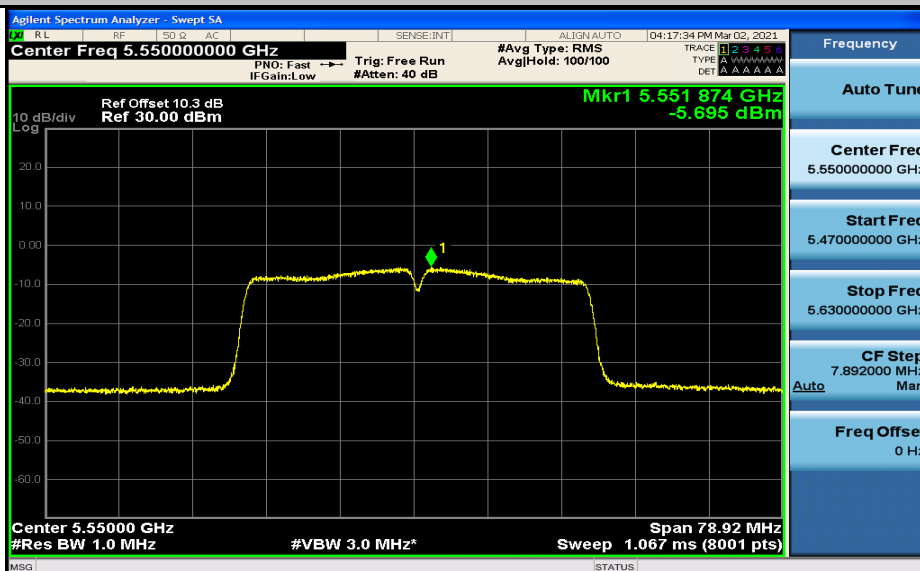
## Maximum Power Spectral Density\_TNVN\_11AC40\_5310\_Ant1



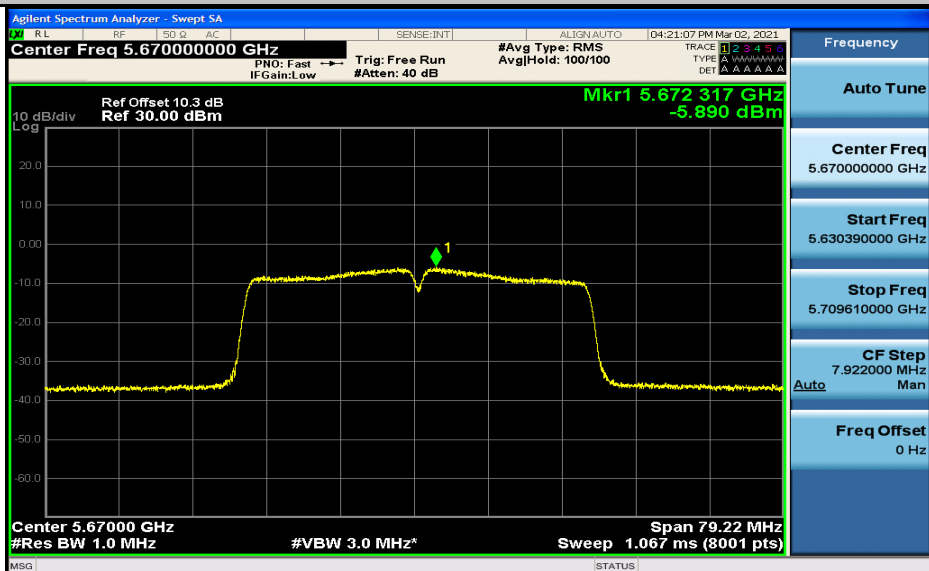
## Maximum Power Spectral Density\_TNVN\_11AC40\_5510\_Ant1



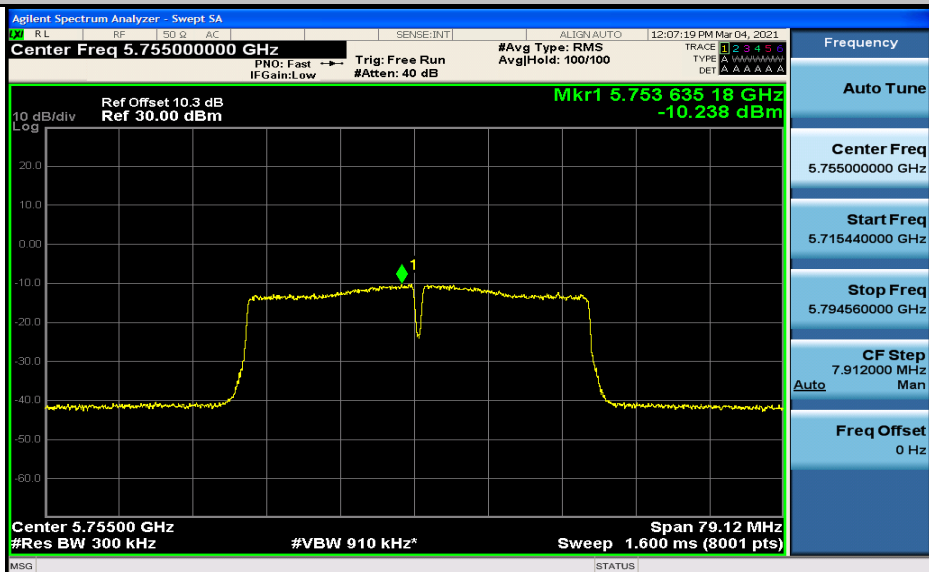
## Maximum Power Spectral Density\_TNVN\_11AC40\_5550\_Ant1



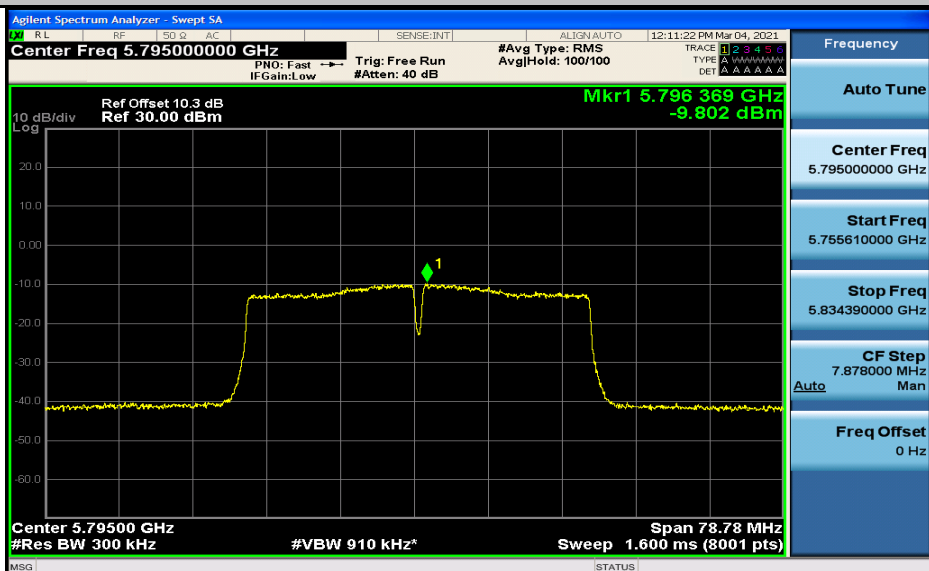
## Maximum Power Spectral Density\_TNVN\_11AC40\_5670\_Ant1



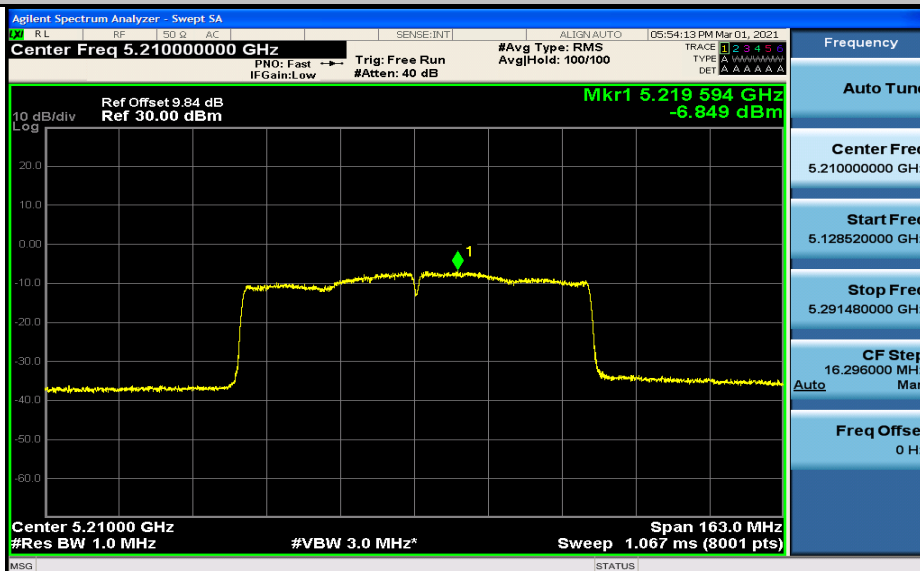
## Maximum Power Spectral Density\_TNVN\_11AC40\_5755\_Ant1



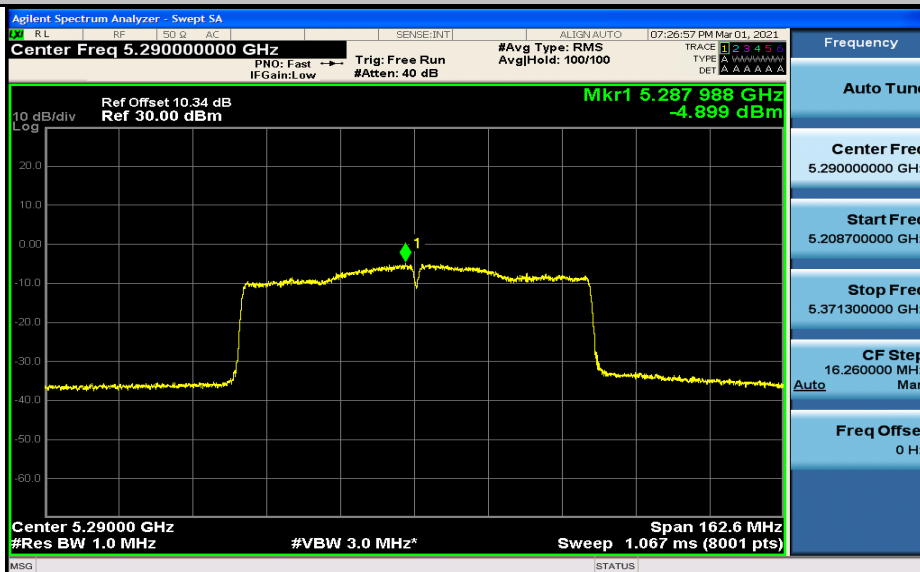
## Maximum Power Spectral Density\_TNVN\_11AC40\_5795\_Ant1



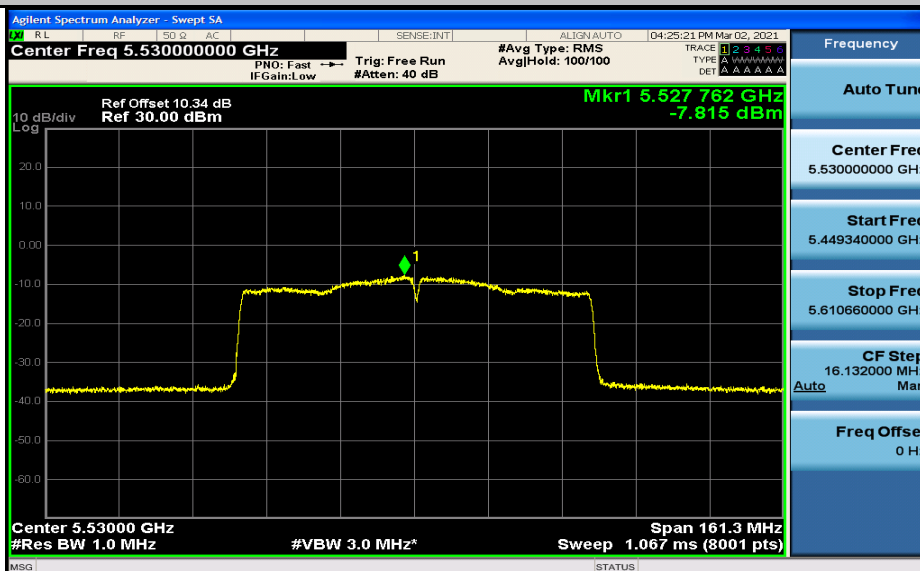
## Maximum Power Spectral Density\_TNVN\_11AC80\_5210\_Ant1

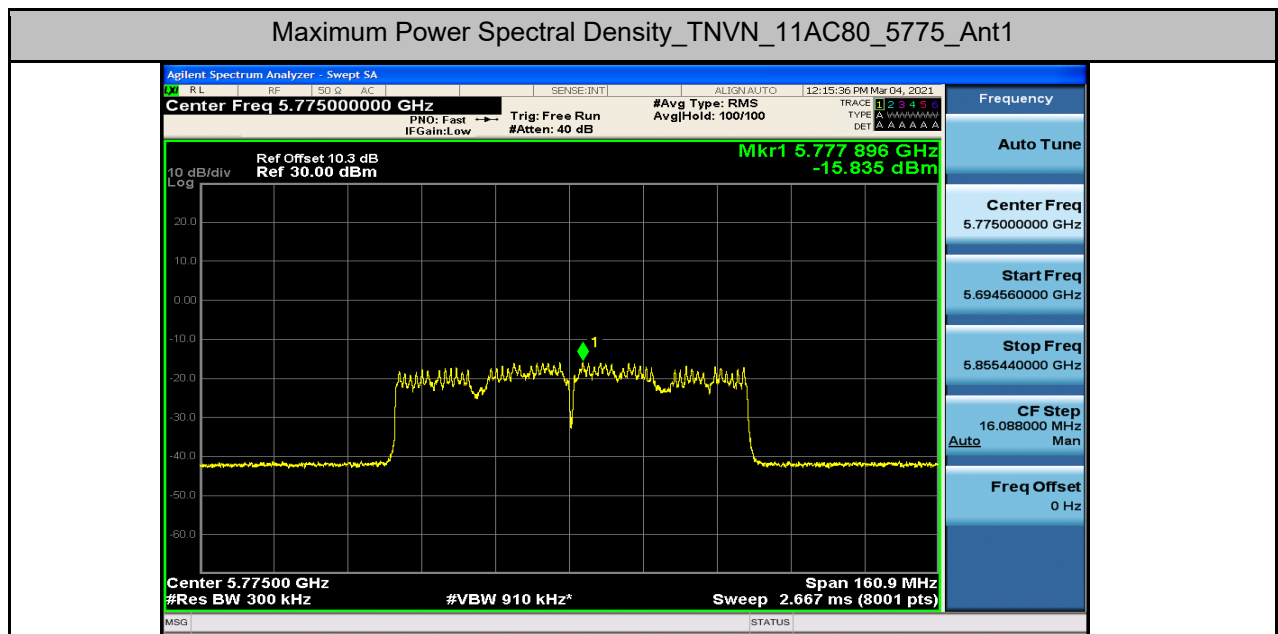


## Maximum Power Spectral Density\_TNVN\_11AC80\_5290\_Ant1



## Maximum Power Spectral Density\_TNVN\_11AC80\_5530\_Ant1





**8.Frequency Stability**

| Band          | Test Conditions |              | Operation Frequency (MHz) | Test Frequency (MHz) | Freq. Dev. (MHz) | Limit (GHz) | Result |
|---------------|-----------------|--------------|---------------------------|----------------------|------------------|-------------|--------|
|               | Volt (V AC)     | Temp (°C)    |                           | ANT1                 | ANT1             |             |        |
| Band U-NII 1  | Normal(120)     | Extreme(-20) | 5180                      | 5180.0102            | 0.0102           | 5.15-5.25   | Pass   |
|               |                 | Extreme(-10) |                           | 5180.0266            | 0.0266           |             | Pass   |
|               |                 | Extreme(0)   |                           | 5180.0415            | 0.0415           |             | Pass   |
|               |                 | Extreme(+10) |                           | 5180.0205            | 0.0205           |             | Pass   |
|               |                 | Extreme(+20) |                           | 5180.0255            | 0.0255           |             | Pass   |
|               |                 | Extreme(+30) |                           | 5180.0300            | 0.0300           |             | Pass   |
|               |                 | Extreme(+40) |                           | 5180.0245            | 0.0245           |             | Pass   |
|               |                 | Extreme(+55) |                           | 5180.0452            | 0.0452           |             | Pass   |
|               | Extreme(102)    | Norma(+20)   |                           | 5180.0188            | 0.0188           |             | Pass   |
|               | Extreme(138)    |              |                           | 5180.0347            | 0.0347           |             | Pass   |
|               | Normal(120)     | 5240         | Extreme(-20)              | 5240.0298            | 0.0298           |             | Pass   |
|               |                 |              | Extreme(-10)              | 5240.0305            | 0.0305           |             | Pass   |
|               |                 |              | Extreme(0)                | 5240.0355            | 0.0355           |             | Pass   |
|               |                 |              | Extreme(+10)              | 5240.0242            | 0.0242           |             | Pass   |
|               |                 |              | Extreme(+20)              | 5240.0288            | 0.0288           |             | Pass   |
|               |                 |              | Extreme(+30)              | 5240.0240            | 0.0240           |             | Pass   |
|               |                 |              | Extreme(+40)              | 5240.0196            | 0.0196           |             | Pass   |
|               |                 |              | Extreme(+55)              | 5240.0425            | 0.0425           |             | Pass   |
|               | Extreme(102)    |              | Norma(20)                 | 5240.0352            | 0.0352           |             | Pass   |
|               | Extreme(138)    |              |                           | 5240.0296            | 0.0296           |             | Pass   |
| Band          | Test Conditions |              | Operation Frequency (MHz) | Test Frequency (MHz) | Freq. Dev. (MHz) | Limit (GHz) | Result |
|               | Volt (V AC)     | Temp (°C)    |                           | ANT1                 | ANT1             |             |        |
| Band U-NII 2A | Normal(120)     | Extreme(-20) | 5260                      | 5260.0335            | 0.0335           | 5.15-5.25   | Pass   |
|               |                 | Extreme(-10) |                           | 5260.0255            | 0.0255           |             | Pass   |
|               |                 | Extreme(0)   |                           | 5260.0398            | 0.0398           |             | Pass   |
|               |                 | Extreme(+10) |                           | 5260.0300            | 0.0300           |             | Pass   |
|               |                 | Extreme(+20) |                           | 5260.0415            | 0.0415           |             | Pass   |
|               |                 | Extreme(+30) |                           | 5260.0435            | 0.0435           |             | Pass   |
|               |                 | Extreme(+40) |                           | 5260.0378            | 0.0378           |             | Pass   |
|               |                 | Extreme(+55) |                           | 5260.0269            | 0.0269           |             | Pass   |
|               | Extreme(102)    | Norma(+20)   |                           | 5260.0455            | 0.0455           |             | Pass   |
|               | Extreme(138)    |              |                           | 5260.0315            | 0.0315           |             | Pass   |
|               | Normal(120)     | 5320         | Extreme(-20)              | 5320.0432            | 0.0432           |             | Pass   |
|               |                 |              | Extreme(-10)              | 5320.0398            | 0.0398           |             | Pass   |
|               |                 |              | Extreme(0)                | 5320.0287            | 0.0287           |             | Pass   |
|               |                 |              | Extreme(+10)              | 5320.0466            | 0.0466           |             | Pass   |
|               |                 |              | Extreme(+20)              | 5320.0278            | 0.0278           |             | Pass   |
|               |                 |              | Extreme(+30)              | 5320.0236            | 0.0236           |             | Pass   |
|               |                 |              | Extreme(+40)              | 5320.0352            | 0.0352           |             | Pass   |
|               |                 |              | Extreme(+55)              | 5320.0387            | 0.0387           |             | Pass   |
|               | Extreme(102)    |              | Norma(20)                 | 5320.0405            | 0.0405           |             | Pass   |
|               | Extreme(138)    |              |                           | 5320.0369            | 0.0369           |             | Pass   |
| Band          | Test Conditions |              | Operation Frequency (MHz) | Test Frequency (MHz) | Freq. Dev. (MHz) | Limit (GHz) | Result |
|               | Volt (V AC)     | Temp (°C)    |                           | ANT1                 | ANT1             |             |        |
| Band          | Normal(120)     | Extreme(-20) | 5500                      | 5500.0285            | 0.0285           | 5.15-5.25   | Pass   |

|                    |                 |              |                                 |                         |                     |                |        |
|--------------------|-----------------|--------------|---------------------------------|-------------------------|---------------------|----------------|--------|
| U-NII<br>2C        |                 | Extreme(-10) |                                 | 5500.0296               | 0.0296              |                | Pass   |
|                    |                 | Extreme(0)   |                                 | 5500.0315               | 0.0315              |                | Pass   |
|                    |                 | Extreme(+10) |                                 | 5500.0345               | 0.0345              |                | Pass   |
|                    |                 | Extreme(+20) |                                 | 5500.0452               | 0.0452              |                | Pass   |
|                    |                 | Extreme(+30) |                                 | 5500.0269               | 0.0269              |                | Pass   |
|                    |                 | Extreme(+40) |                                 | 5500.0278               | 0.0278              |                | Pass   |
|                    |                 | Extreme(+55) |                                 | 5500.0345               | 0.0345              |                | Pass   |
|                    | Extreme102)     | Norma(+20)   |                                 | 5500.0412               | 0.0412              |                | Pass   |
|                    | Extreme138)     |              |                                 | 5500.0285               | 0.0285              |                | Pass   |
|                    | Normal(120)     | Extreme(-20) | 5700                            | 5700.0225               | 0.0225              |                | Pass   |
|                    |                 | Extreme(-10) |                                 | 5700.0365               | 0.0365              |                | Pass   |
|                    |                 | Extreme(0)   |                                 | 5700.0335               | 0.0335              |                | Pass   |
|                    |                 | Extreme(+10) |                                 | 5700.0265               | 0.0265              |                | Pass   |
|                    |                 | Extreme(+20) |                                 | 5700.0345               | 0.0345              |                | Pass   |
|                    |                 | Extreme(+30) |                                 | 5700.0258               | 0.0258              |                | Pass   |
|                    |                 | Extreme(+40) |                                 | 5700.0215               | 0.0215              |                | Pass   |
|                    |                 | Extreme(+55) |                                 | 5700.0305               | 0.0305              |                | Pass   |
|                    | Extreme(102)    | Norma(20)    |                                 | 5700.0336               | 0.0336              |                | Pass   |
|                    | Extreme(138)    |              |                                 | 5700.0248               | 0.0248              |                | Pass   |
| Band               | Test Conditions |              | Operation<br>Frequency<br>(MHz) | Test Frequency<br>(MHz) | Freq. Dev.<br>(MHz) | Limit<br>(GHz) | Result |
|                    | Volt (V AC)     | Temp (°C)    |                                 | ANT1                    | ANT1                |                |        |
| Band<br>U-NII<br>3 | Normal(120)     | Extreme(-20) | 5745                            | 5745.0355               | 0.0355              | 5.725-5.85     | Pass   |
|                    |                 | Extreme(-10) |                                 | 5745.0325               | 0.0325              |                | Pass   |
|                    |                 | Extreme(0)   |                                 | 5745.0285               | 0.0285              |                | Pass   |
|                    |                 | Extreme(+10) |                                 | 5745.0196               | 0.0196              |                | Pass   |
|                    |                 | Extreme(+20) |                                 | 5745.0225               | 0.0225              |                | Pass   |
|                    |                 | Extreme(+30) |                                 | 5745.0384               | 0.0384              |                | Pass   |
|                    |                 | Extreme(+40) |                                 | 5745.0305               | 0.0305              |                | Pass   |
|                    |                 | Extreme(+55) |                                 | 5745.0275               | 0.0275              |                | Pass   |
|                    | Extreme(102)    | Norma(+20)   |                                 | 5745.0342               | 0.0342              |                | Pass   |
|                    | Extreme(138)    |              |                                 | 5745.0405               | 0.0405              |                | Pass   |
|                    | Normal(120)     | Extreme(-20) | 5825                            | 5825.0425               | 0.0425              |                | Pass   |
|                    |                 | Extreme(-10) |                                 | 5825.0389               | 0.0389              |                | Pass   |
|                    |                 | Extreme(0)   |                                 | 5825.0266               | 0.0266              |                | Pass   |
|                    |                 | Extreme(+10) |                                 | 5825.0258               | 0.0258              |                | Pass   |
|                    |                 | Extreme(+20) |                                 | 5825.0254               | 0.0254              |                | Pass   |
|                    |                 | Extreme(+30) |                                 | 5825.0305               | 0.0305              |                | Pass   |
|                    |                 | Extreme(+40) |                                 | 5825.0185               | 0.0185              |                | Pass   |
|                    |                 | Extreme(+55) |                                 | 5825.0265               | 0.0265              |                | Pass   |
|                    | Extreme(102)    | Norma(20)    |                                 | 5825.0445               | 0.0445              |                | Pass   |
| Extreme(138)       | 5825.0256       |              |                                 | 0.0256                  | Pass                |                |        |

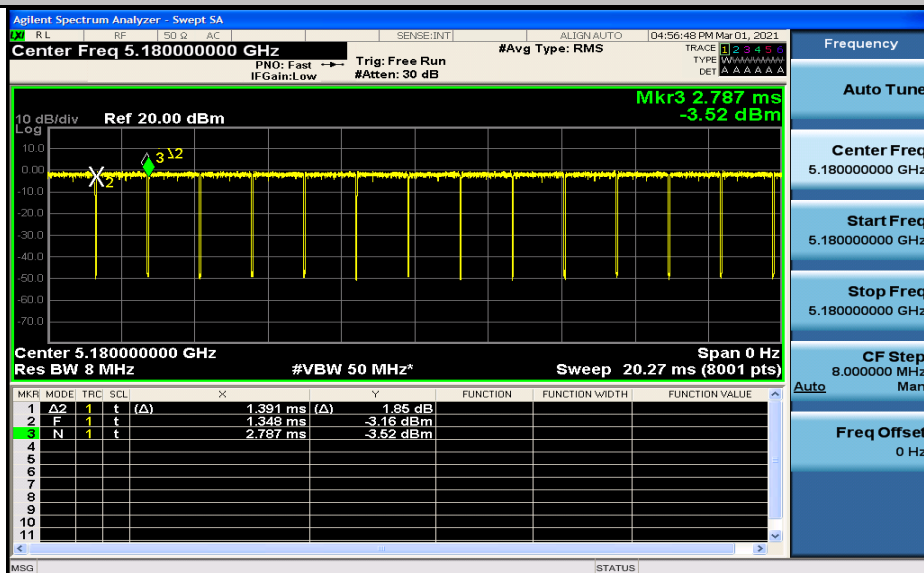
Remark: Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested

**9.Duty Cycle**

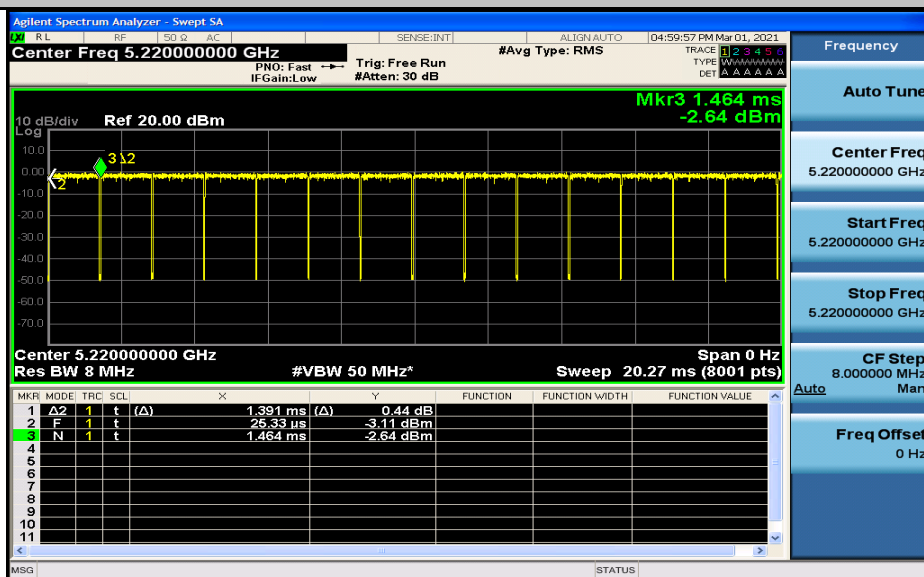
| Test Mode | Test Channel | Ant  | Duty Cycle[%] | 10log(1/x) Factor[dB] |
|-----------|--------------|------|---------------|-----------------------|
| 11A       | 5180         | Ant1 | 96.65         | 0.15                  |
| 11A       | 5220         | Ant1 | 96.65         | 0.15                  |
| 11A       | 5240         | Ant1 | 96.65         | 0.15                  |
| 11A       | 5260         | Ant1 | 96.83         | 0.14                  |
| 11A       | 5280         | Ant1 | 96.83         | 0.14                  |
| 11A       | 5320         | Ant1 | 96.83         | 0.14                  |
| 11A       | 5500         | Ant1 | 96.83         | 0.14                  |
| 11A       | 5580         | Ant1 | 96.83         | 0.14                  |
| 11A       | 5700         | Ant1 | 96.65         | 0.15                  |
| 11A       | 5745         | Ant1 | 96.83         | 0.14                  |
| 11A       | 5785         | Ant1 | 96.65         | 0.15                  |
| 11A       | 5825         | Ant1 | 96.65         | 0.15                  |
| 11N20     | 5180         | Ant1 | 96.62         | 0.15                  |
| 11N20     | 5220         | Ant1 | 96.44         | 0.16                  |
| 11N20     | 5240         | Ant1 | 96.44         | 0.16                  |
| 11N20     | 5260         | Ant1 | 96.44         | 0.16                  |
| 11N20     | 5280         | Ant1 | 96.62         | 0.15                  |
| 11N20     | 5320         | Ant1 | 96.62         | 0.15                  |
| 11N20     | 5500         | Ant1 | 96.44         | 0.16                  |
| 11N20     | 5580         | Ant1 | 96.44         | 0.16                  |
| 11N20     | 5700         | Ant1 | 96.62         | 0.15                  |
| 11N20     | 5745         | Ant1 | 96.44         | 0.16                  |
| 11N20     | 5785         | Ant1 | 96.44         | 0.16                  |
| 11N20     | 5825         | Ant1 | 96.44         | 0.16                  |
| 11N40     | 5190         | Ant1 | 93.04         | 0.31                  |
| 11N40     | 5230         | Ant1 | 93.38         | 0.30                  |
| 11N40     | 5270         | Ant1 | 93.04         | 0.31                  |
| 11N40     | 5310         | Ant1 | 93.38         | 0.30                  |
| 11N40     | 5510         | Ant1 | 93.38         | 0.30                  |
| 11N40     | 5550         | Ant1 | 93.38         | 0.30                  |
| 11N40     | 5670         | Ant1 | 93.38         | 0.30                  |
| 11N40     | 5755         | Ant1 | 93.04         | 0.31                  |
| 11N40     | 5795         | Ant1 | 93.38         | 0.30                  |
| 11AC20    | 5180         | Ant1 | 96.46         | 0.16                  |
| 11AC20    | 5220         | Ant1 | 96.46         | 0.16                  |
| 11AC20    | 5240         | Ant1 | 96.46         | 0.16                  |
| 11AC20    | 5260         | Ant1 | 96.64         | 0.15                  |

|        |      |      |       |      |
|--------|------|------|-------|------|
| 11AC20 | 5280 | Ant1 | 96.46 | 0.16 |
| 11AC20 | 5320 | Ant1 | 96.64 | 0.15 |
| 11AC20 | 5500 | Ant1 | 96.46 | 0.16 |
| 11AC20 | 5580 | Ant1 | 96.64 | 0.15 |
| 11AC20 | 5700 | Ant1 | 96.46 | 0.16 |
| 11AC20 | 5745 | Ant1 | 96.64 | 0.15 |
| 11AC20 | 5785 | Ant1 | 96.46 | 0.16 |
| 11AC20 | 5825 | Ant1 | 96.46 | 0.16 |
| 11AC40 | 5190 | Ant1 | 93.45 | 0.29 |
| 11AC40 | 5230 | Ant1 | 93.45 | 0.29 |
| 11AC40 | 5270 | Ant1 | 93.45 | 0.29 |
| 11AC40 | 5310 | Ant1 | 93.09 | 0.31 |
| 11AC40 | 5510 | Ant1 | 93.12 | 0.31 |
| 11AC40 | 5550 | Ant1 | 93.45 | 0.29 |
| 11AC40 | 5670 | Ant1 | 93.12 | 0.31 |
| 11AC40 | 5755 | Ant1 | 93.45 | 0.29 |
| 11AC40 | 5795 | Ant1 | 93.09 | 0.31 |
| 11AC80 | 5210 | Ant1 | 87.50 | 0.58 |
| 11AC80 | 5290 | Ant1 | 87.50 | 0.58 |
| 11AC80 | 5530 | Ant1 | 86.81 | 0.61 |
| 11AC80 | 5775 | Ant1 | 54.76 | 2.62 |

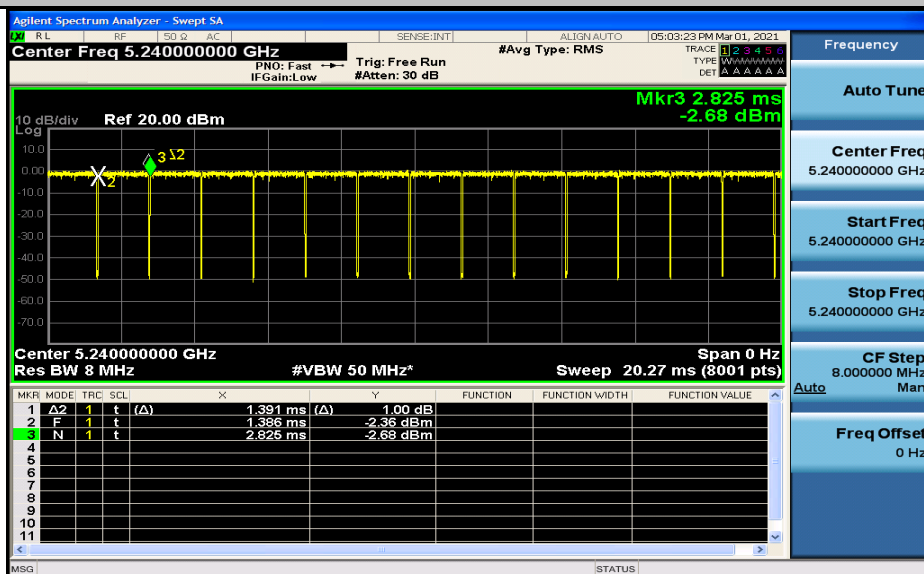
Duty Cycle\_11A\_5180\_Ant1



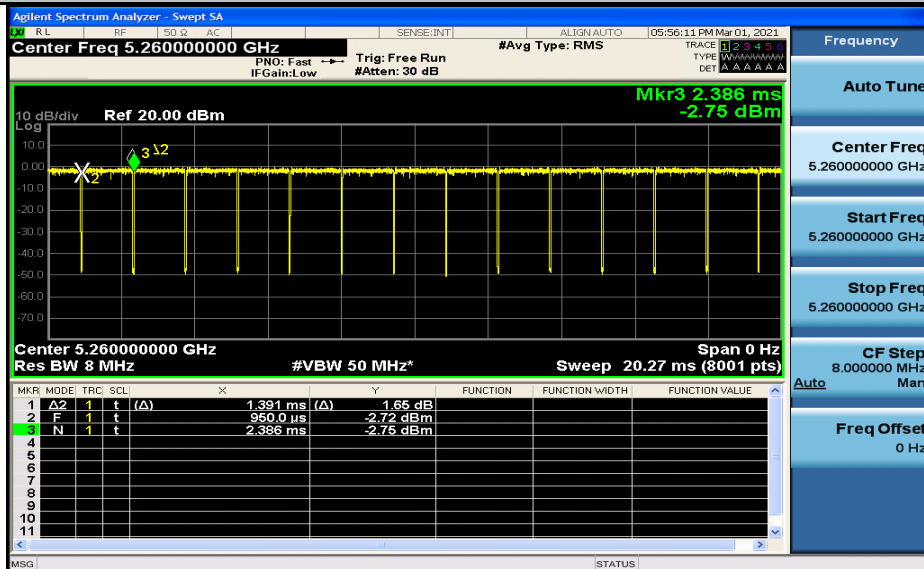
Duty Cycle\_11A\_5220\_Ant1



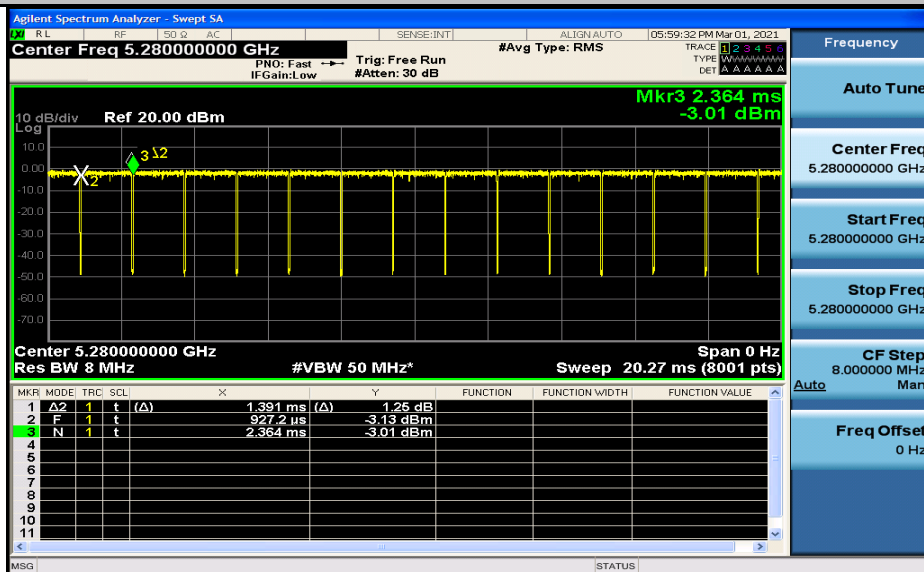
Duty Cycle\_11A\_5240\_Ant1



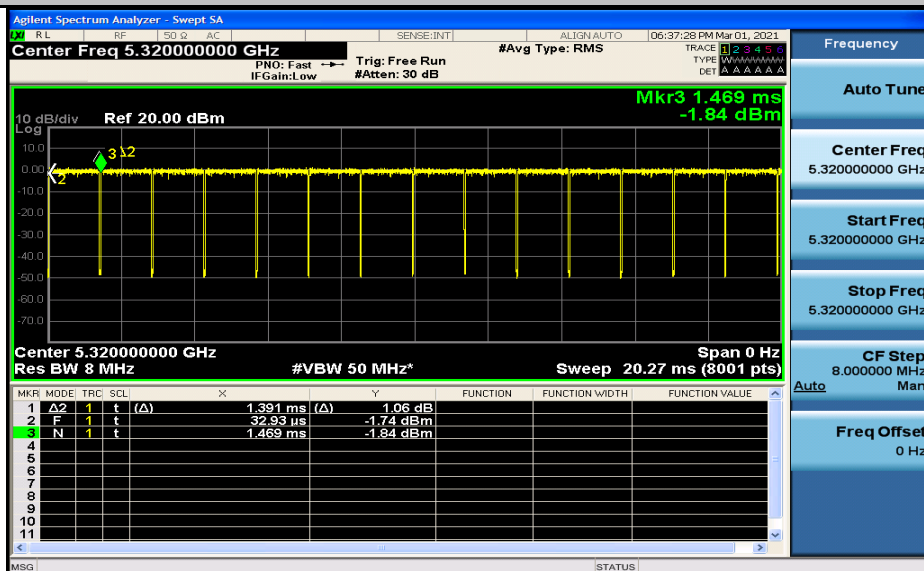
Duty Cycle\_11A\_5260\_Ant1



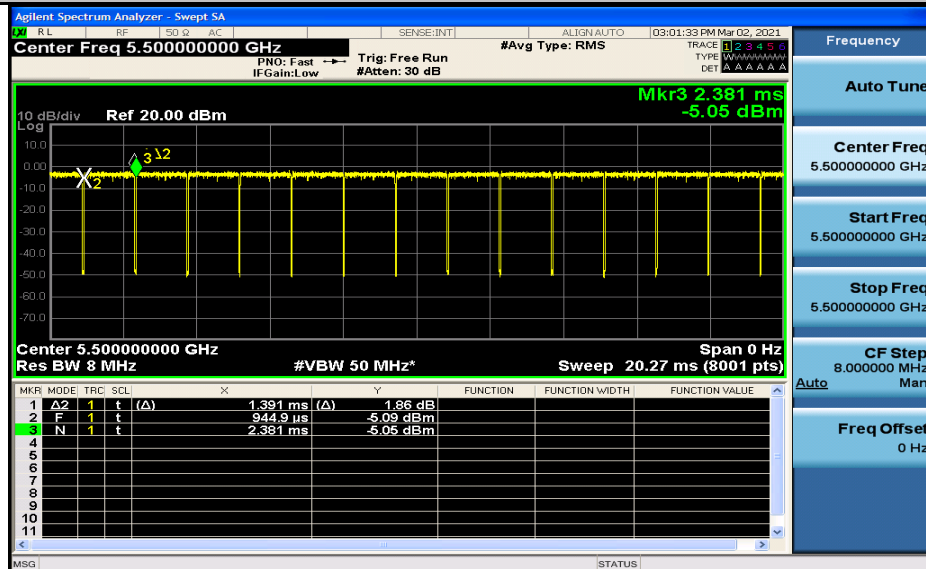
Duty Cycle\_11A\_5280\_Ant1



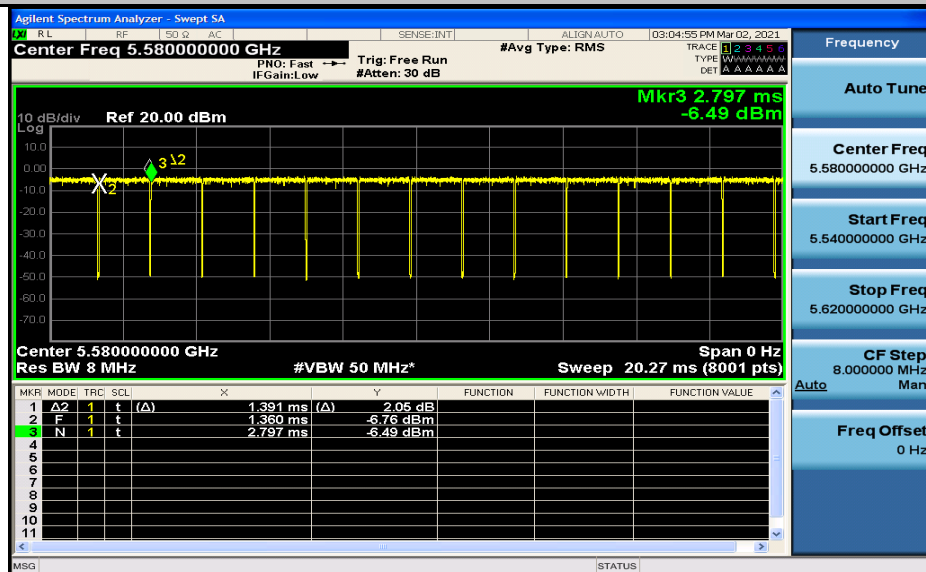
Duty Cycle\_11A\_5320\_Ant1



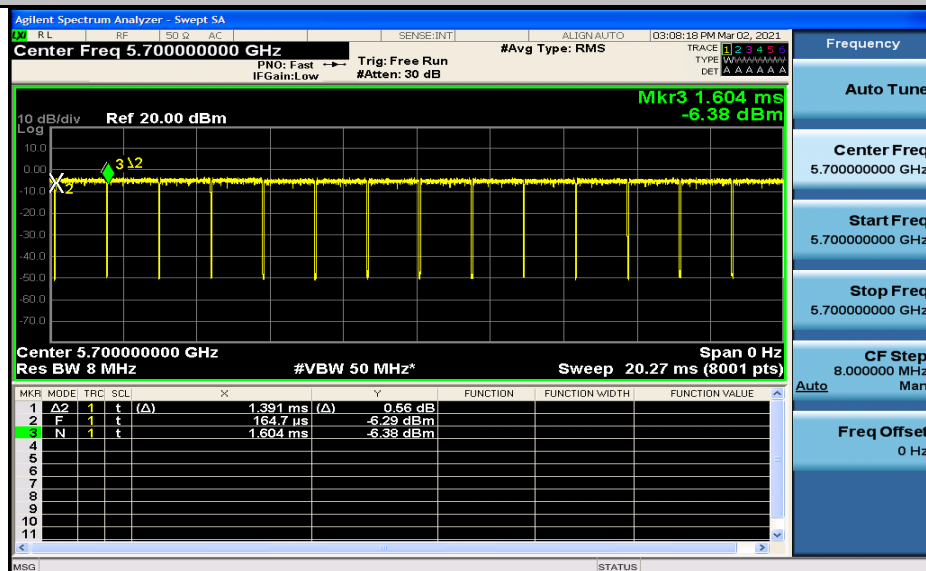
Duty Cycle\_11A\_5500\_Ant1



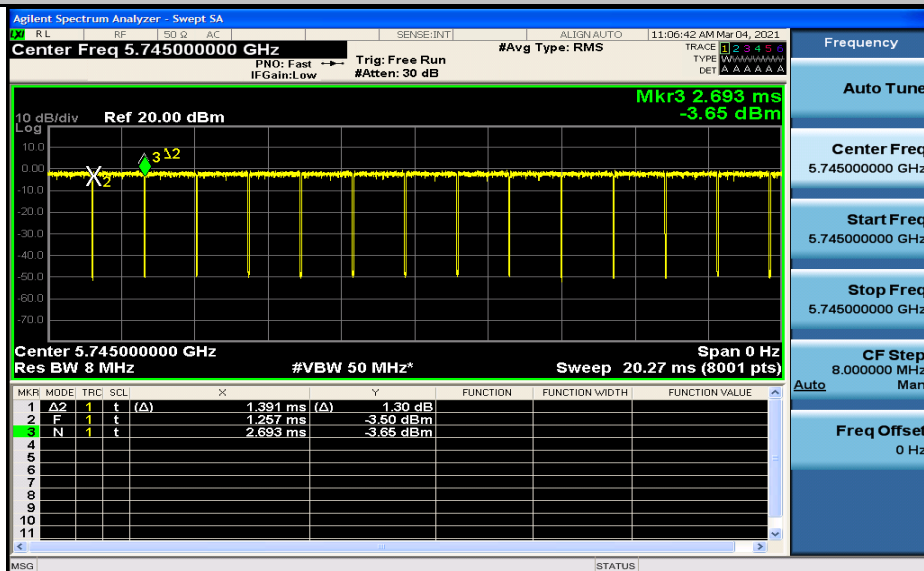
Duty Cycle\_11A\_5580\_Ant1



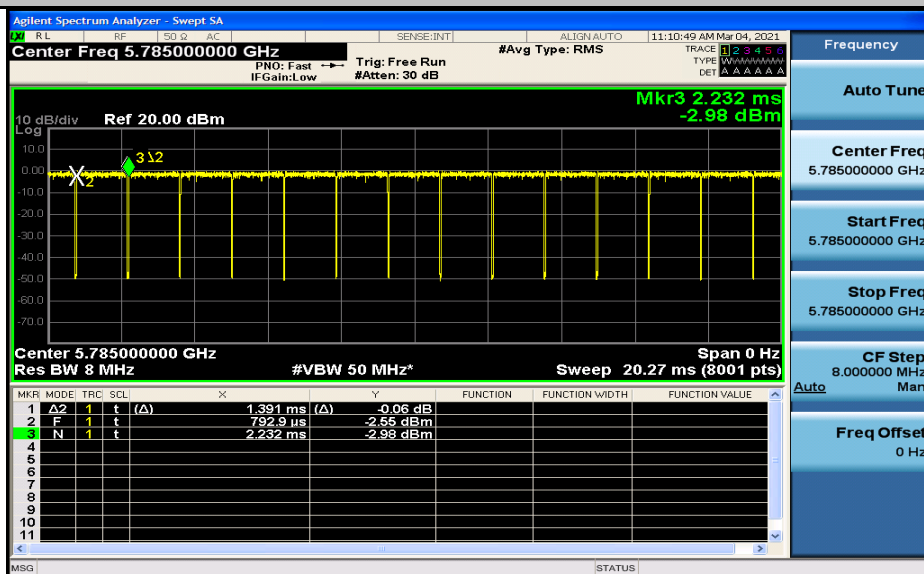
Duty Cycle\_11A\_5700\_Ant1



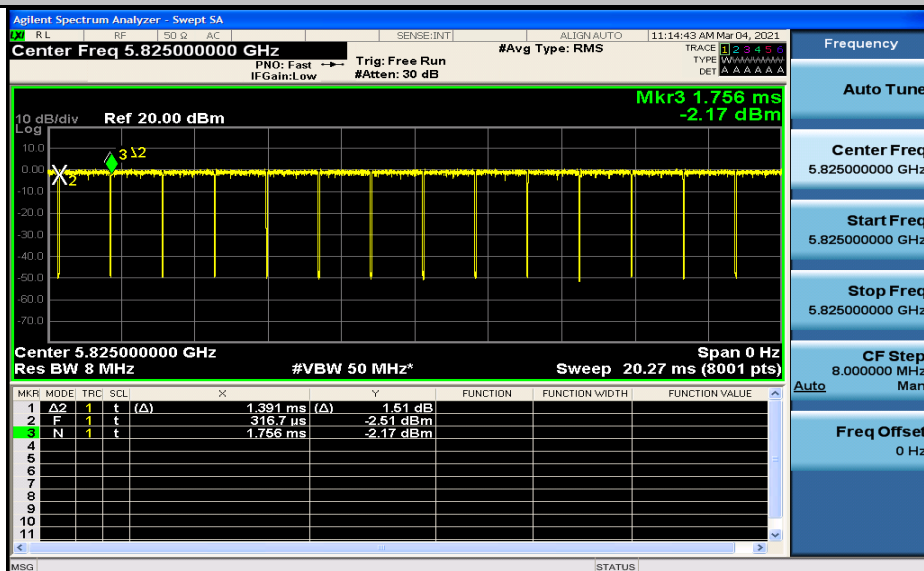
Duty Cycle\_11A\_5745\_Ant1



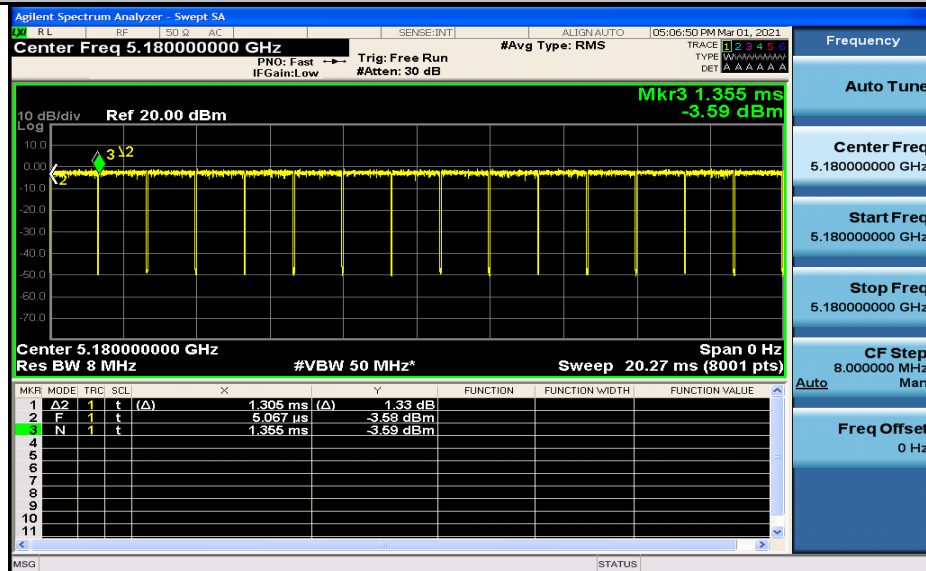
Duty Cycle\_11A\_5785\_Ant1



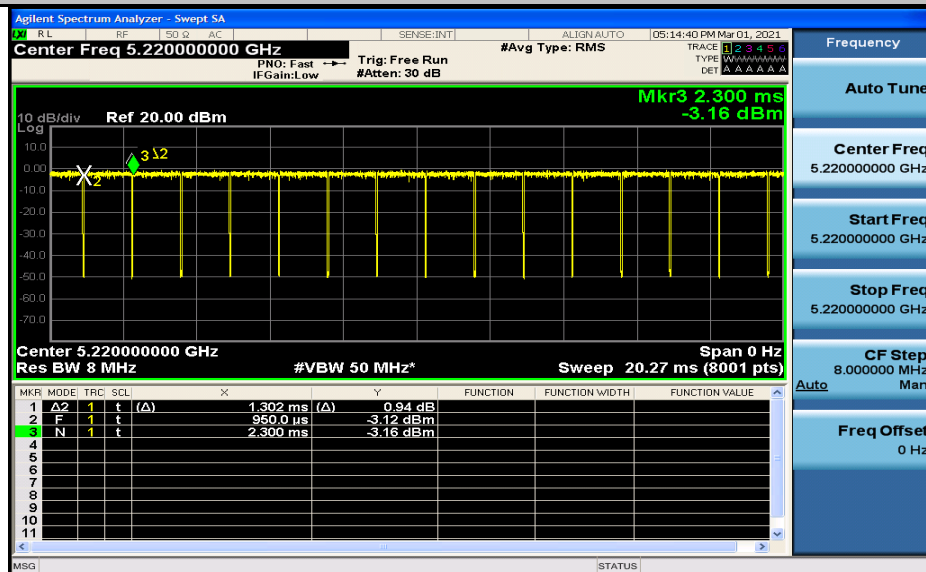
Duty Cycle\_11A\_5825\_Ant1



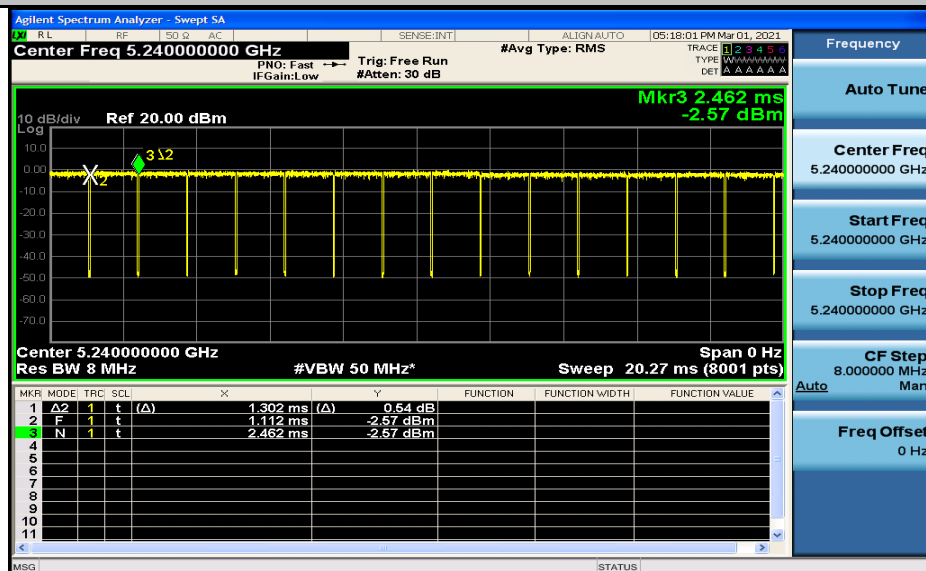
Duty Cycle\_11N20\_5180\_Ant1



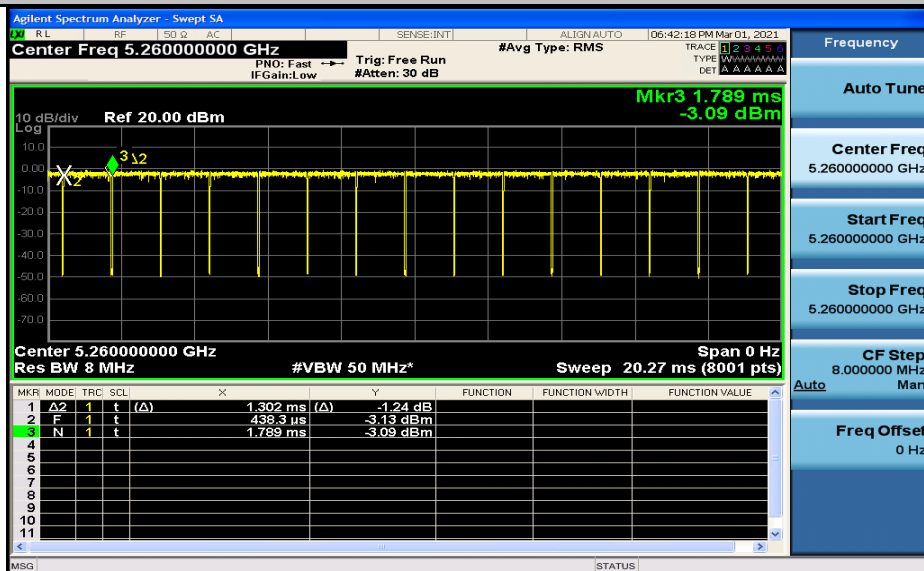
Duty Cycle\_11N20\_5220\_Ant1



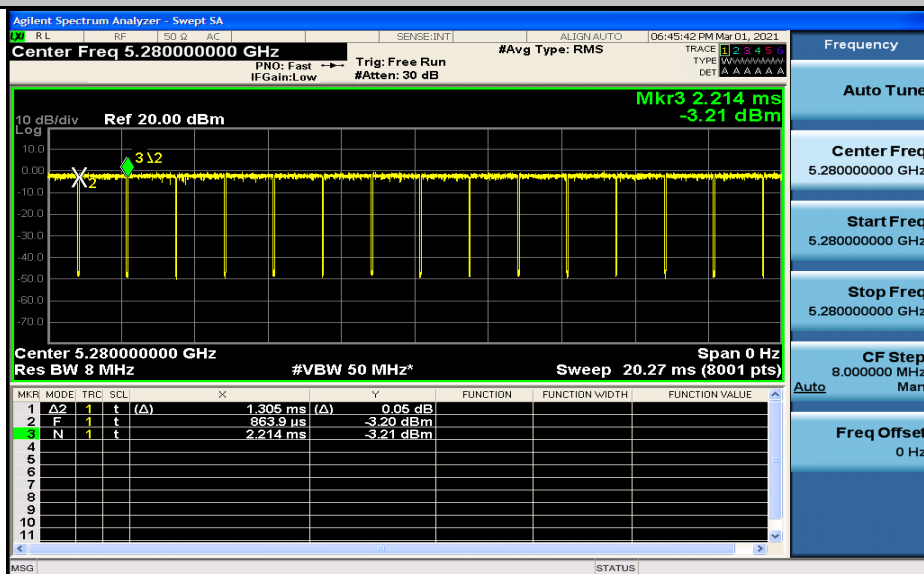
Duty Cycle\_11N20\_5240\_Ant1



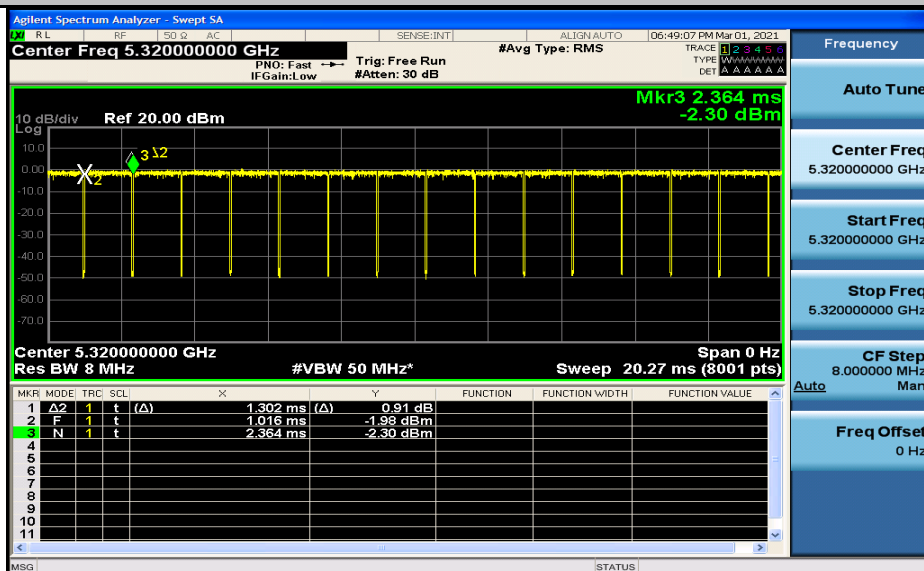
Duty Cycle\_11N20\_5260\_Ant1



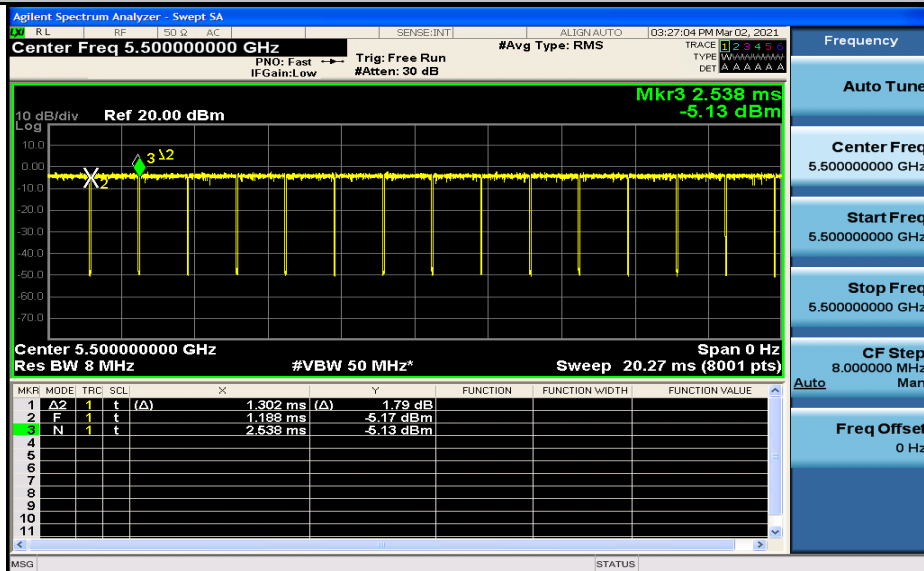
Duty Cycle\_11N20\_5280\_Ant1



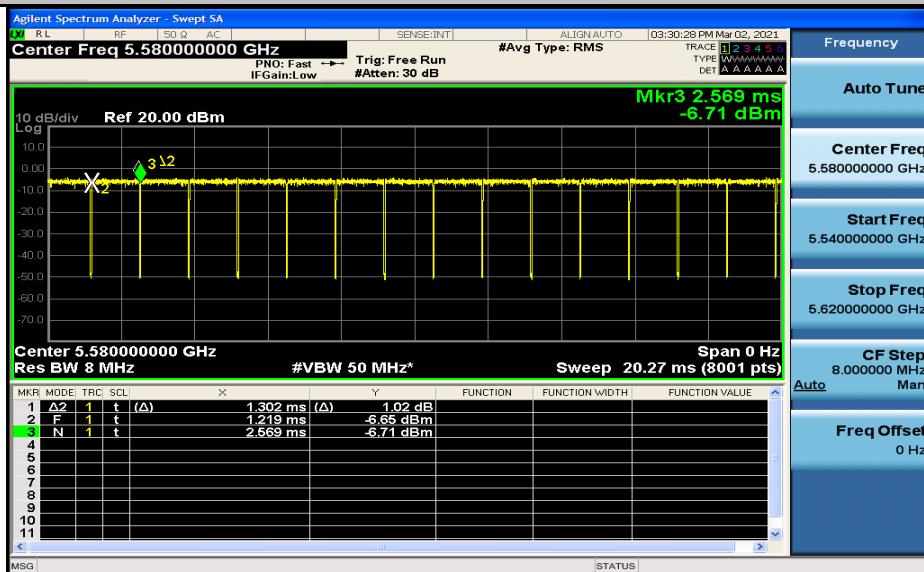
Duty Cycle\_11N20\_5320\_Ant1



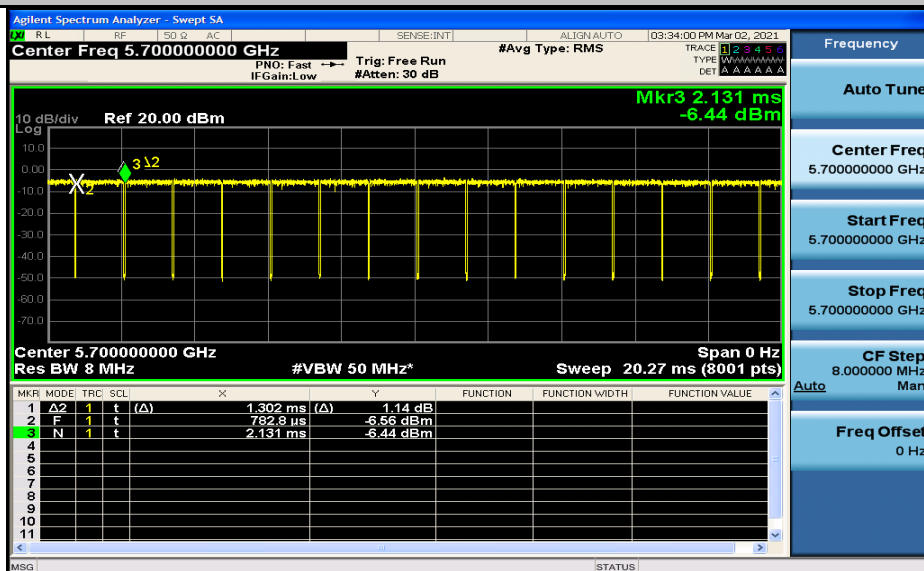
Duty Cycle\_11N20\_5500\_Ant1



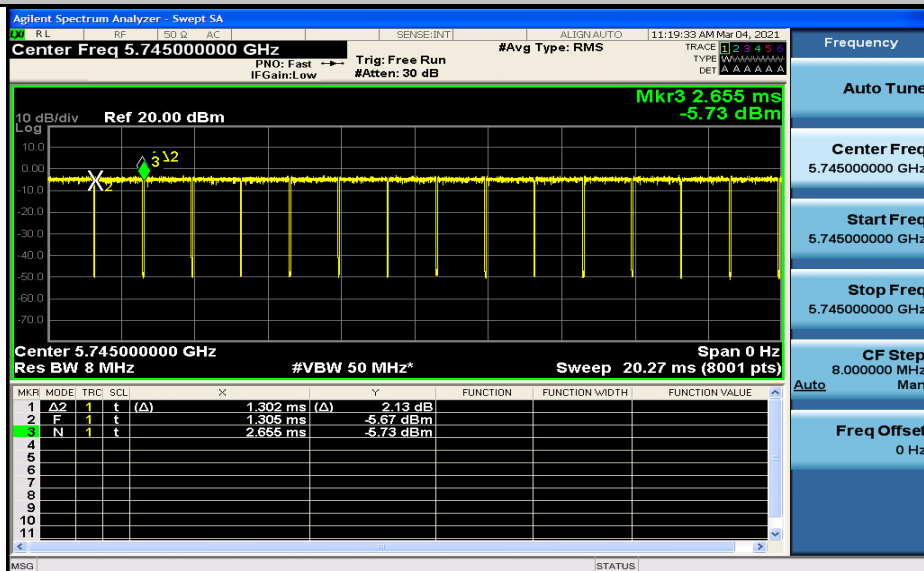
Duty Cycle\_11N20\_5580\_Ant1



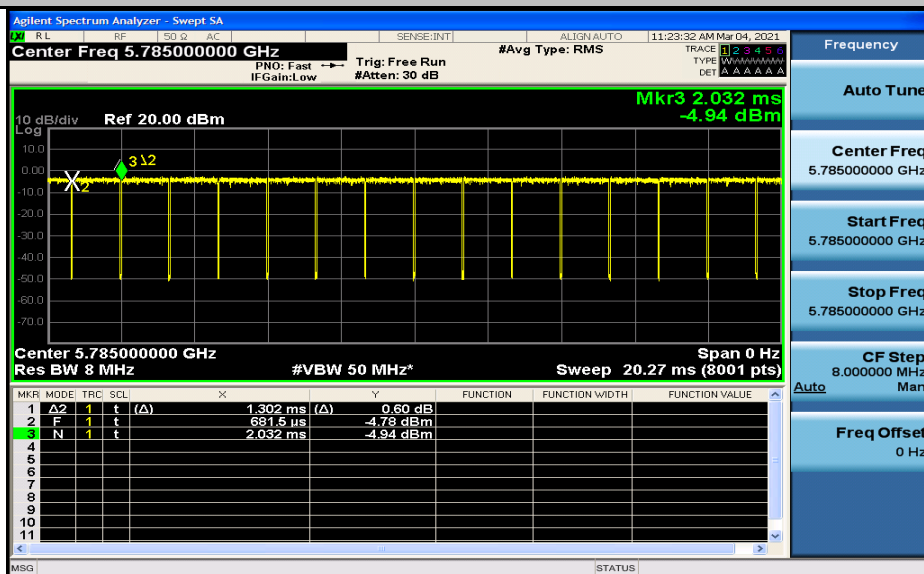
Duty Cycle\_11N20\_5700\_Ant1



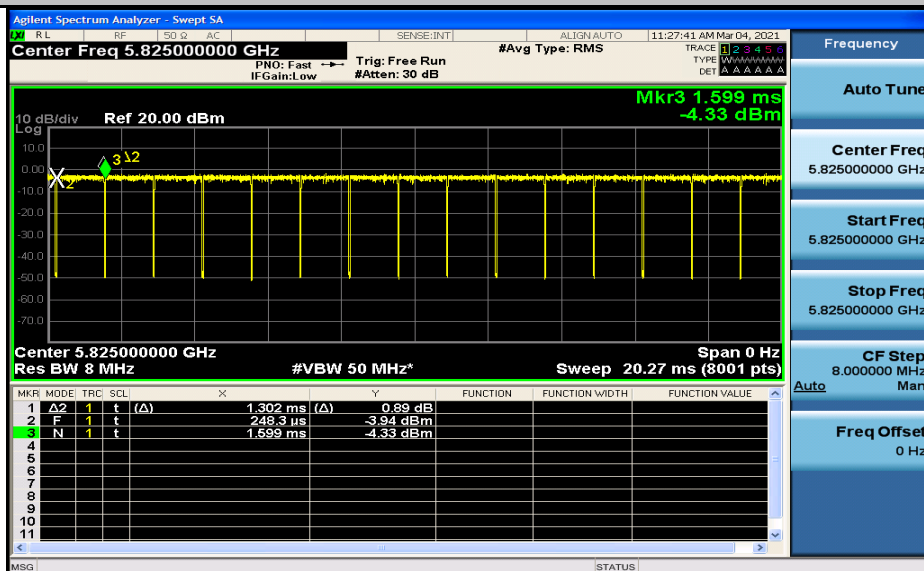
Duty Cycle\_11N20\_5745\_Ant1



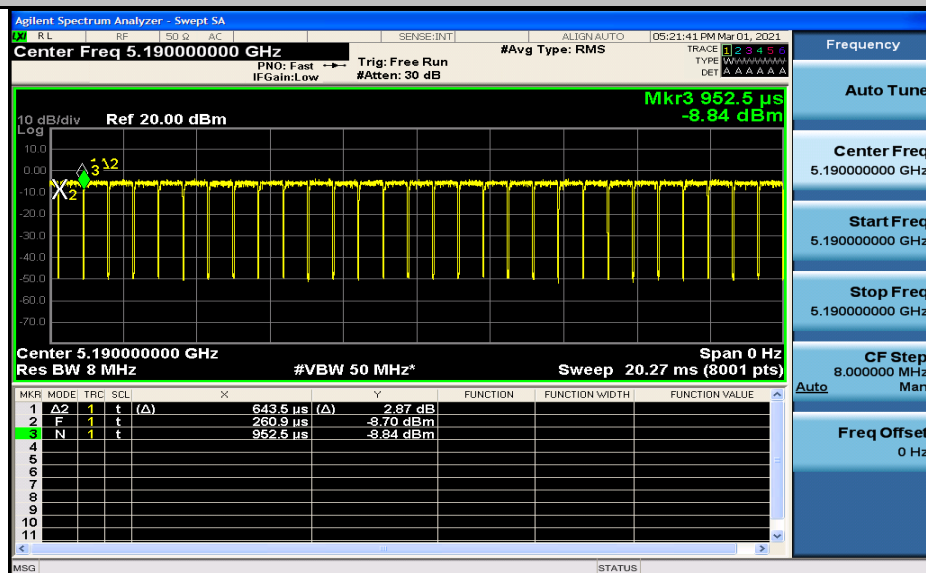
Duty Cycle\_11N20\_5785\_Ant1



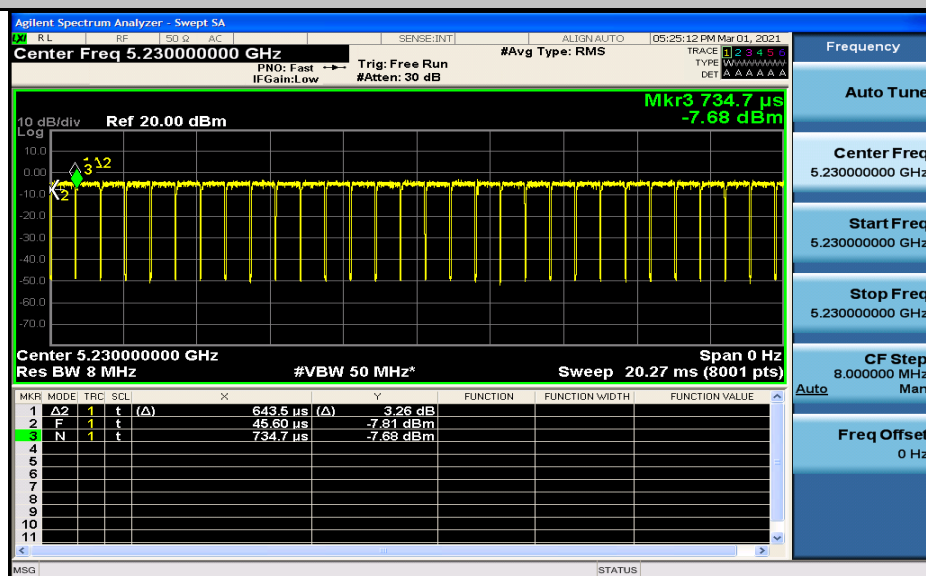
Duty Cycle\_11N20\_5825\_Ant1



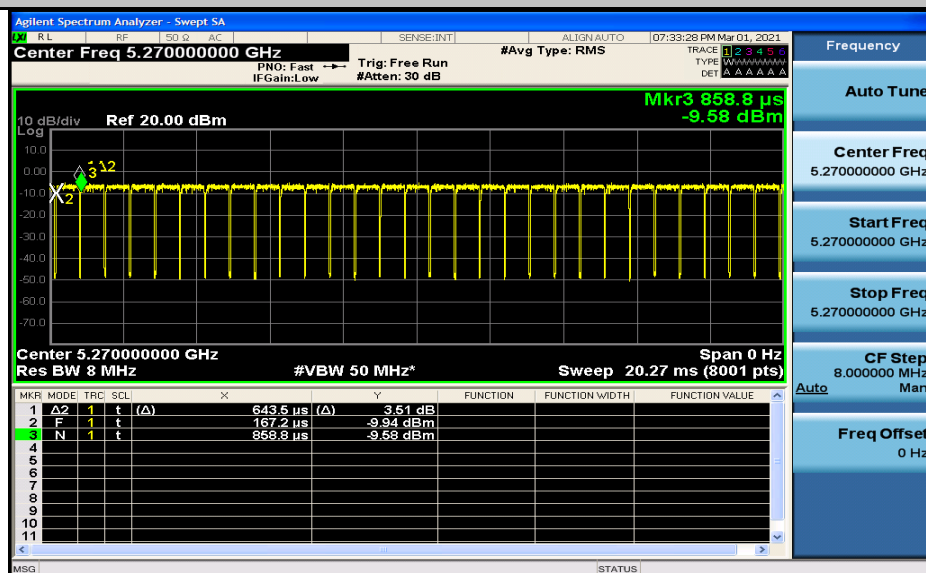
## Duty Cycle\_11N40\_5190\_Ant1



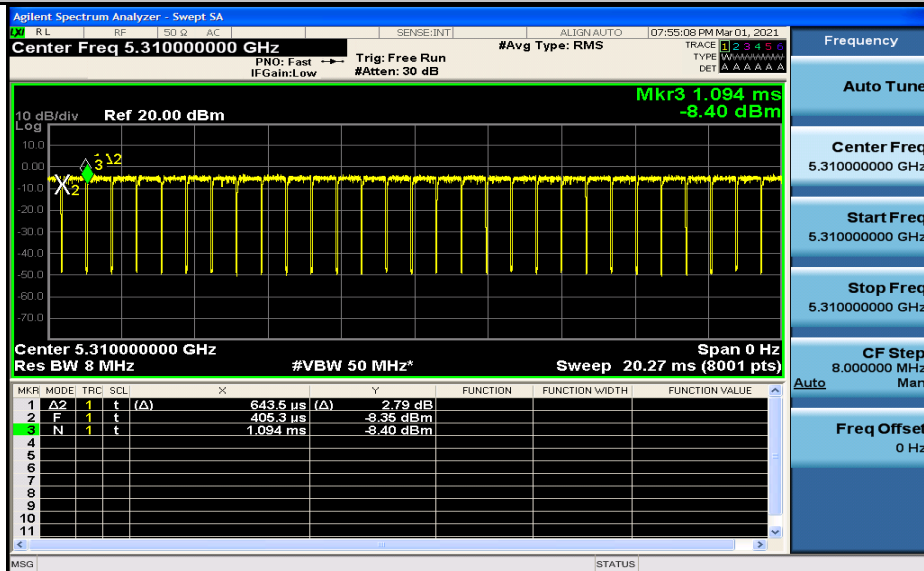
## Duty Cycle\_11N40\_5230\_Ant1



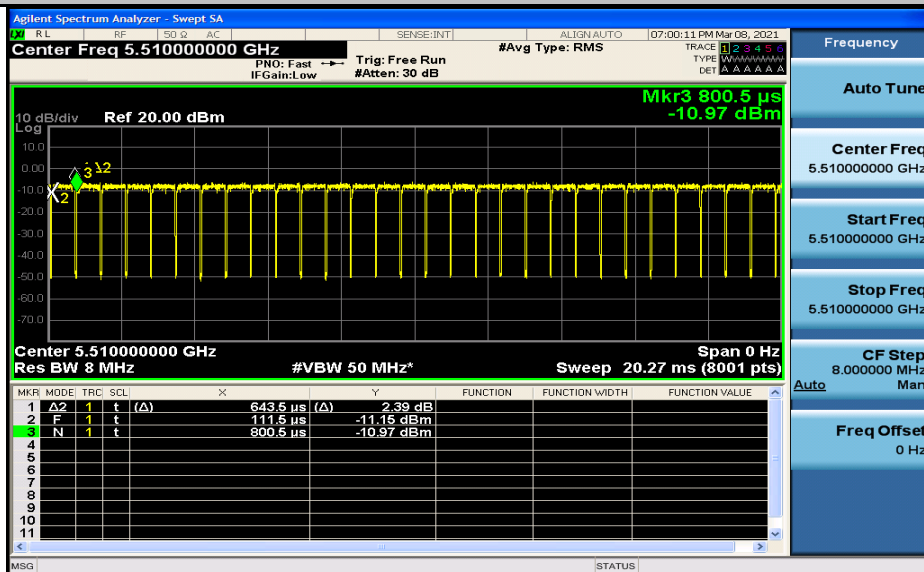
## Duty Cycle 11N40 5270 Ant1



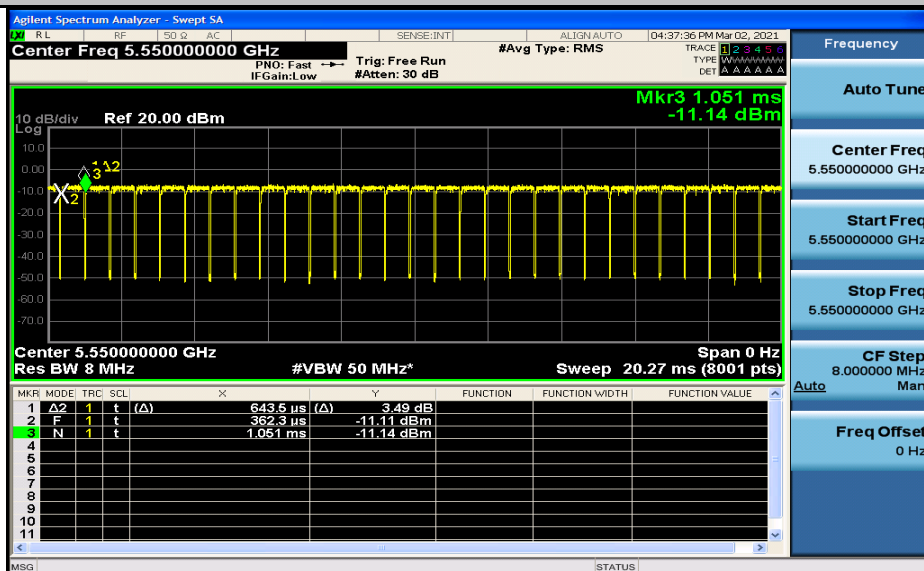
Duty Cycle\_11N40\_5310\_Ant1



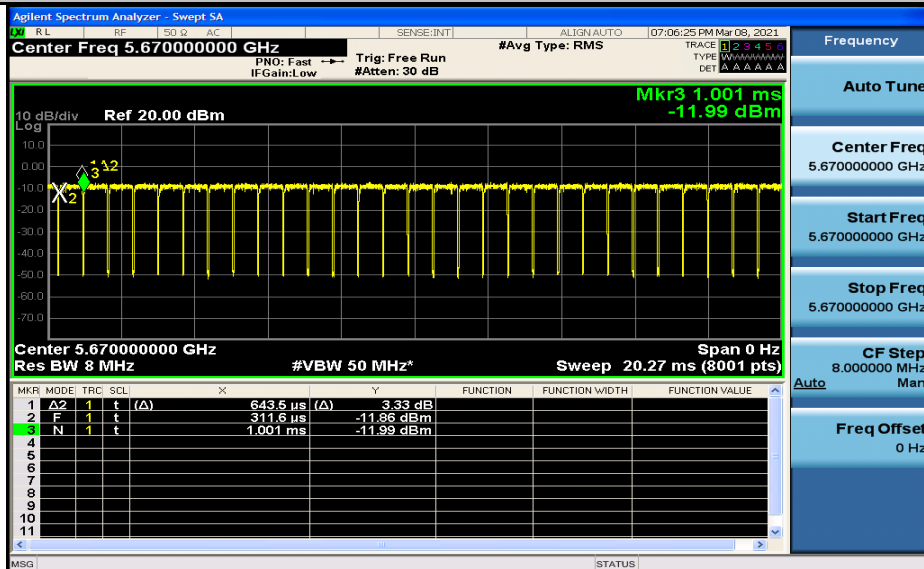
Duty Cycle\_11N40\_5510\_Ant1



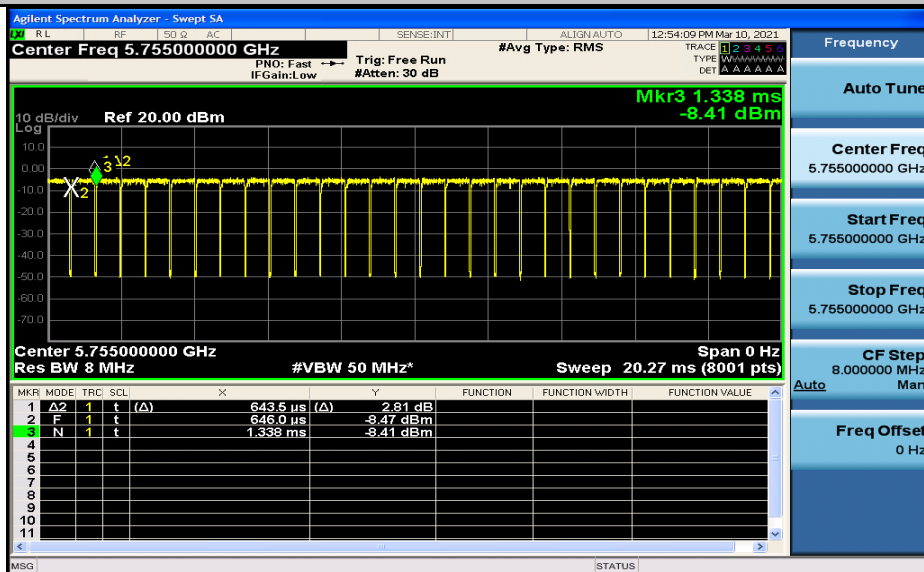
Duty Cycle\_11N40\_5550\_Ant1



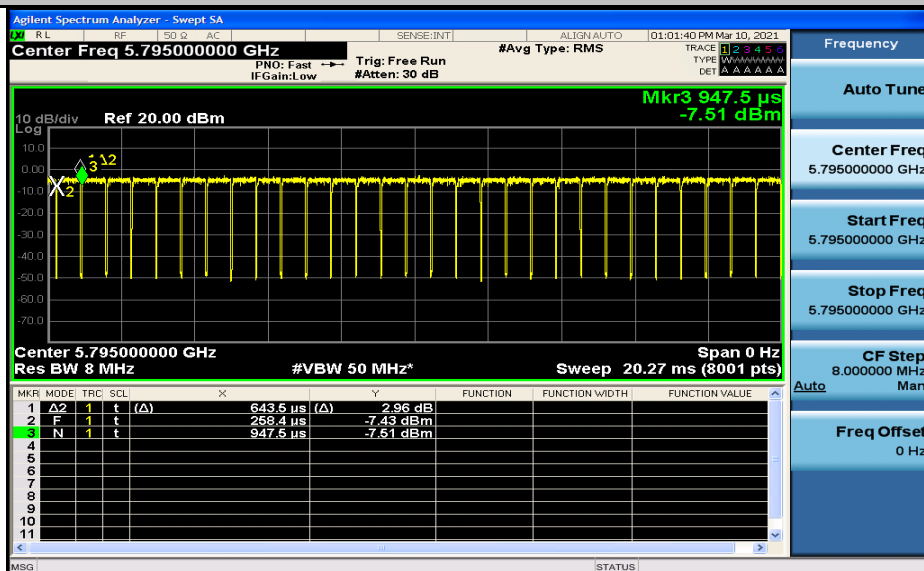
Duty Cycle\_11N40\_5670\_Ant1



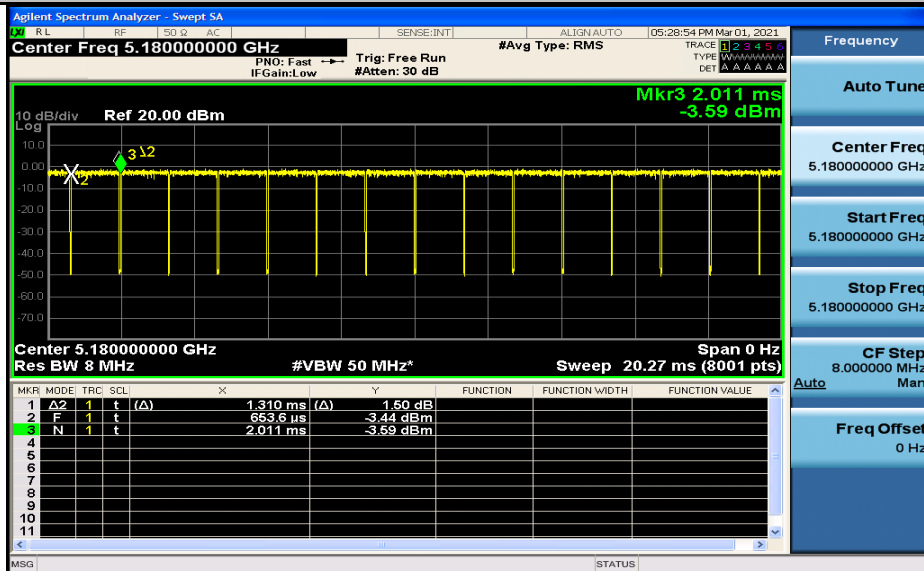
Duty Cycle\_11N40\_5755\_Ant1



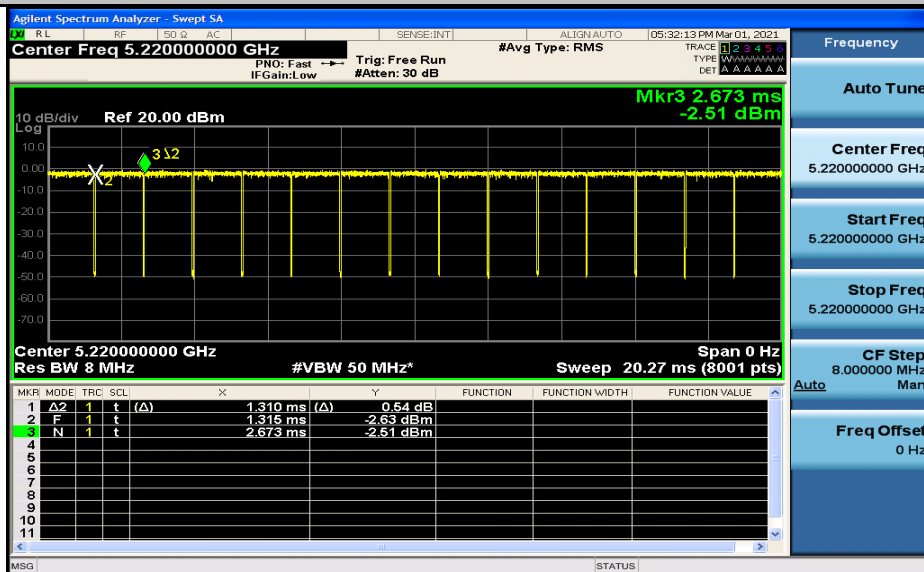
Duty Cycle\_11N40\_5795\_Ant1



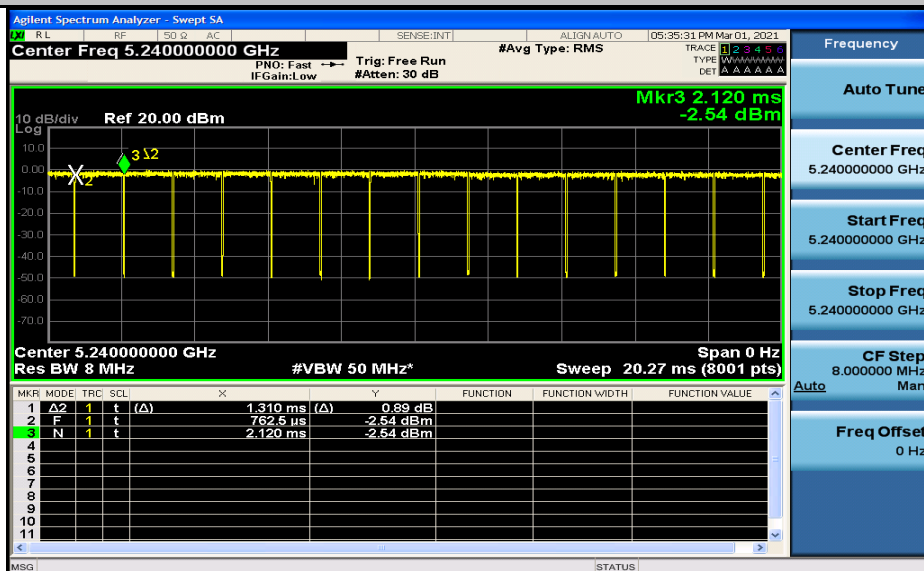
Duty Cycle\_11AC20\_5180\_Ant1



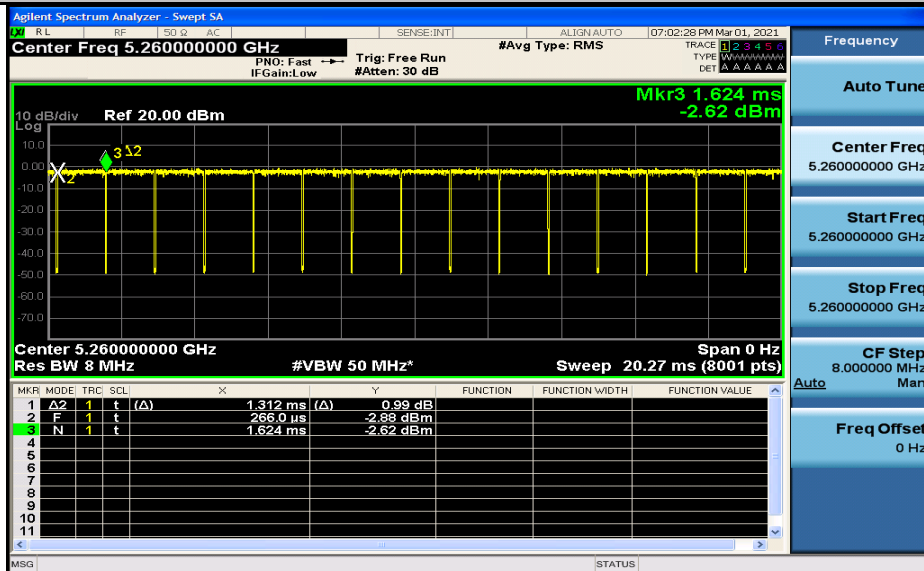
Duty Cycle\_11AC20\_5220\_Ant1



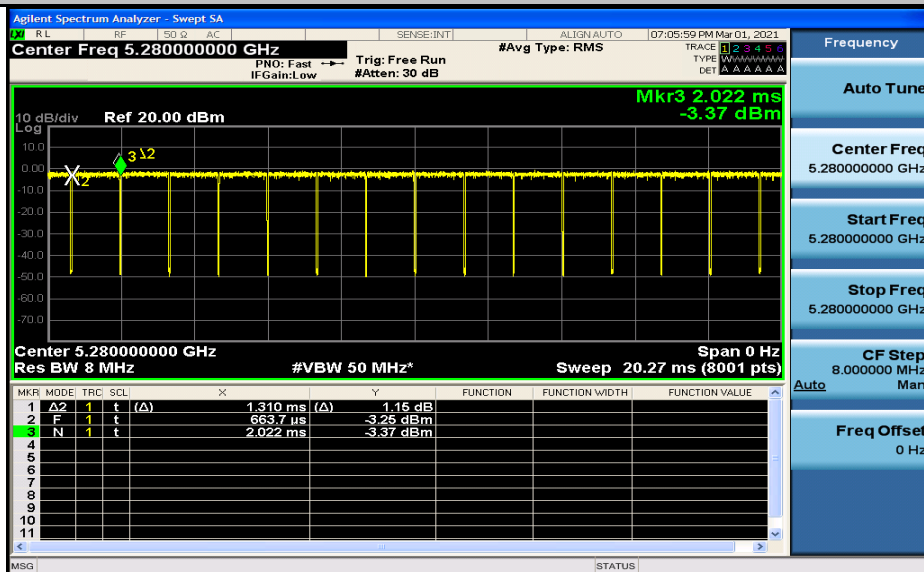
Duty Cycle\_11AC20\_5240\_Ant1



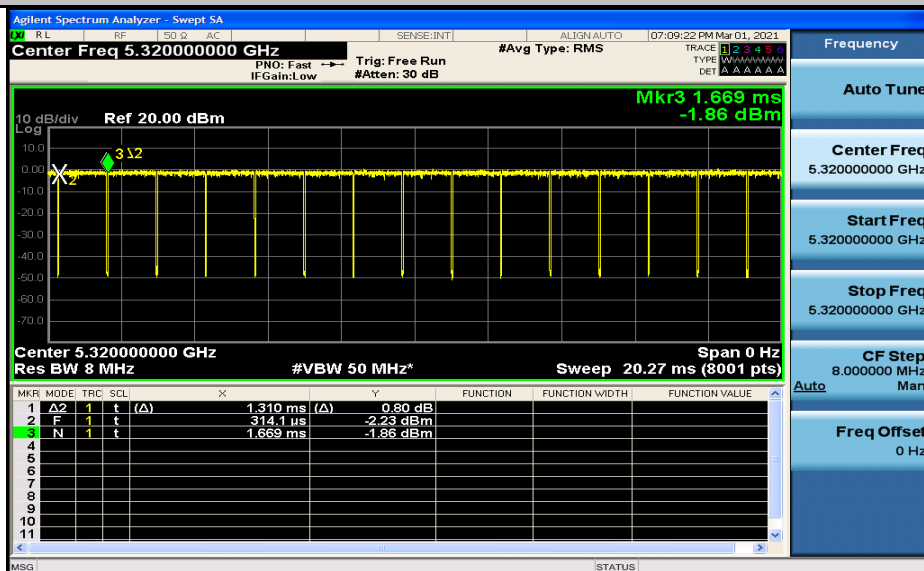
Duty Cycle\_11AC20\_5260\_Ant1



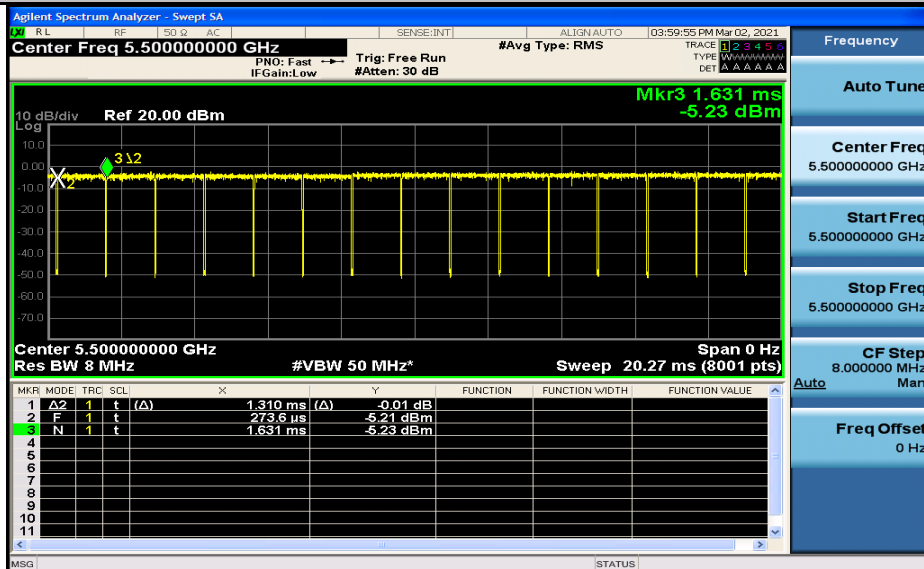
Duty Cycle\_11AC20\_5280\_Ant1



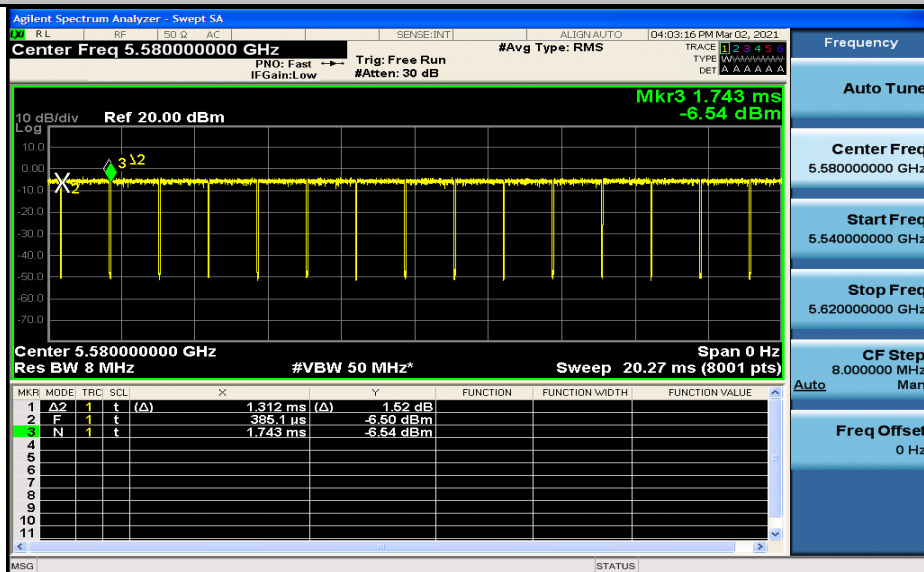
Duty Cycle\_11AC20\_5320\_Ant1



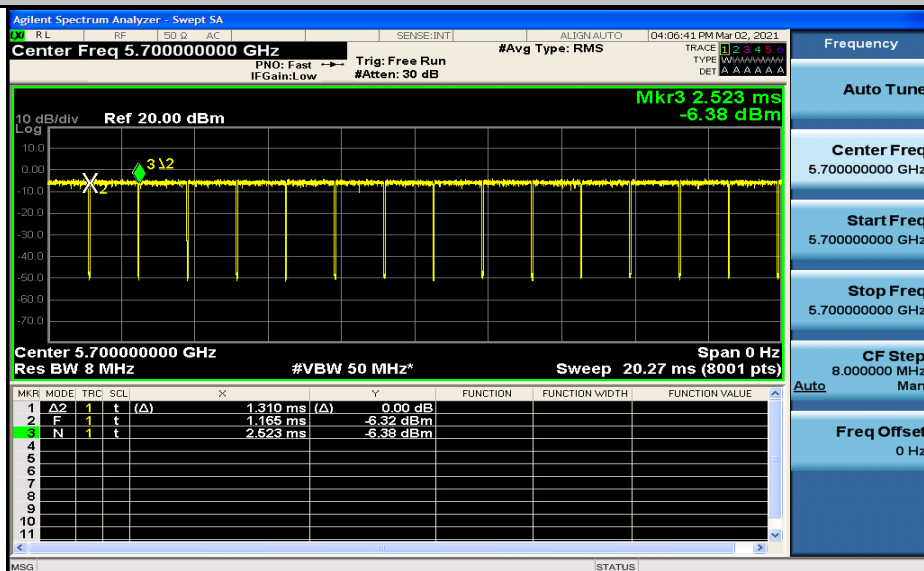
Duty Cycle\_11AC20\_5500\_Ant1



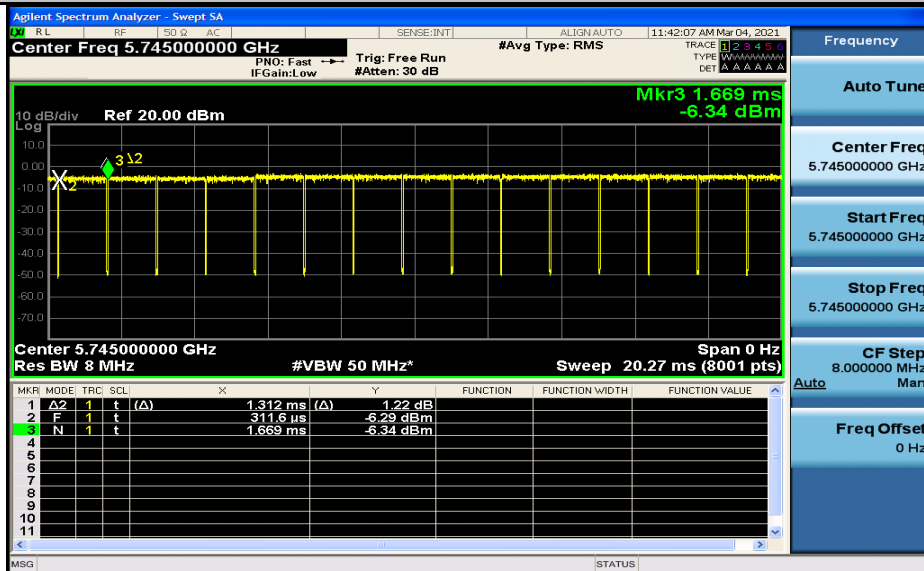
Duty Cycle\_11AC20\_5580\_Ant1



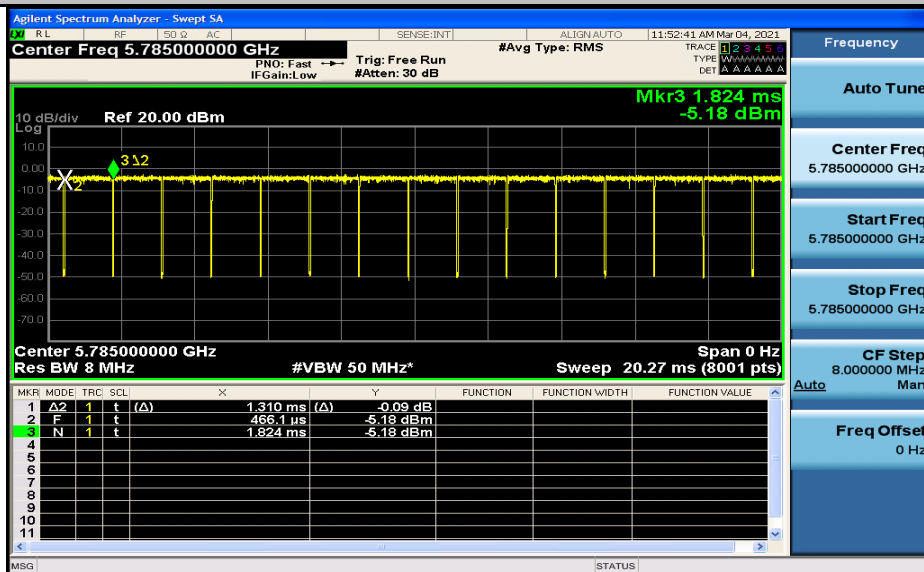
Duty Cycle\_11AC20\_5700\_Ant1



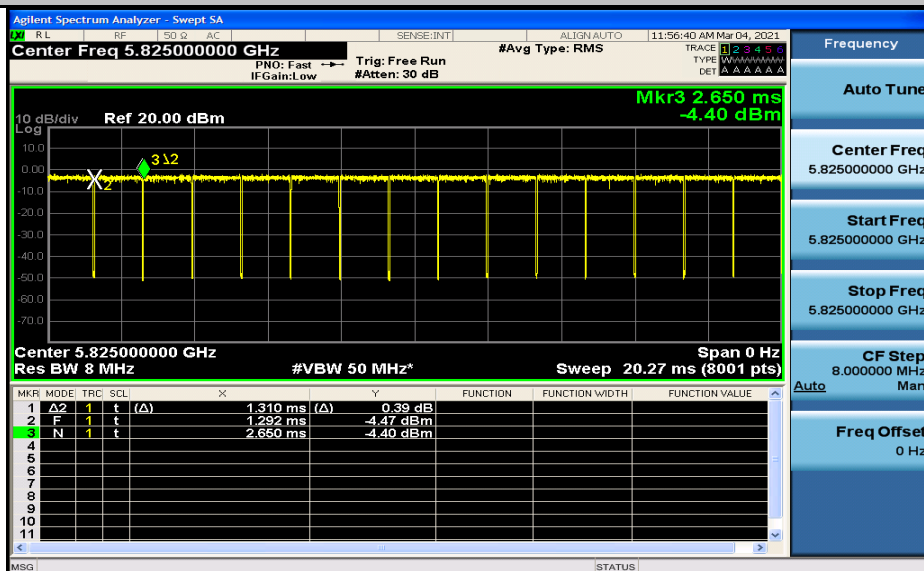
Duty Cycle\_11AC20\_5745\_Ant1



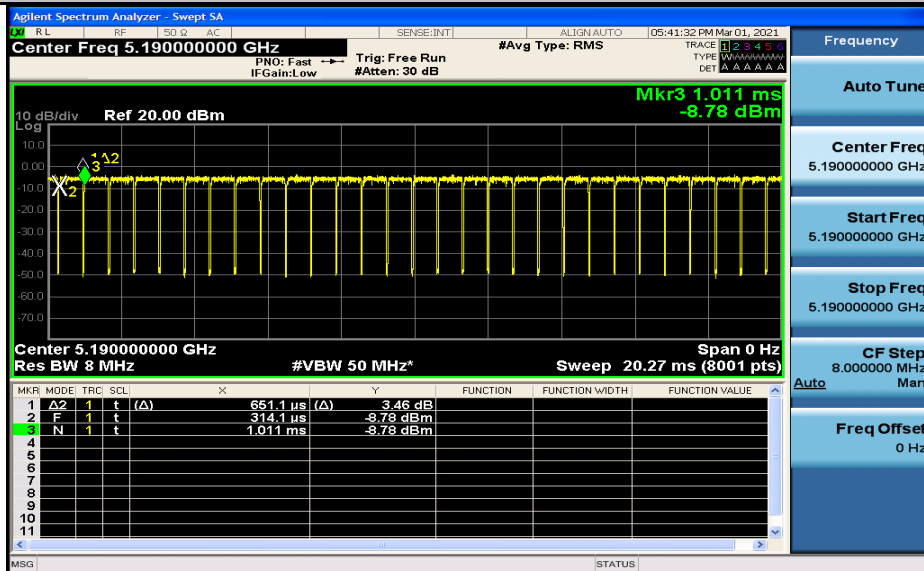
Duty Cycle\_11AC20\_5785\_Ant1



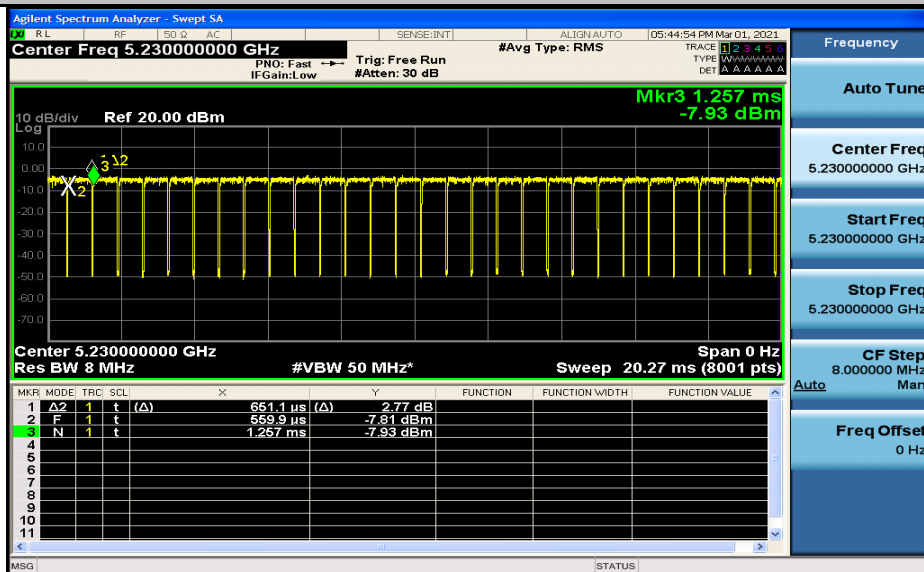
Duty Cycle\_11AC20\_5825\_Ant1



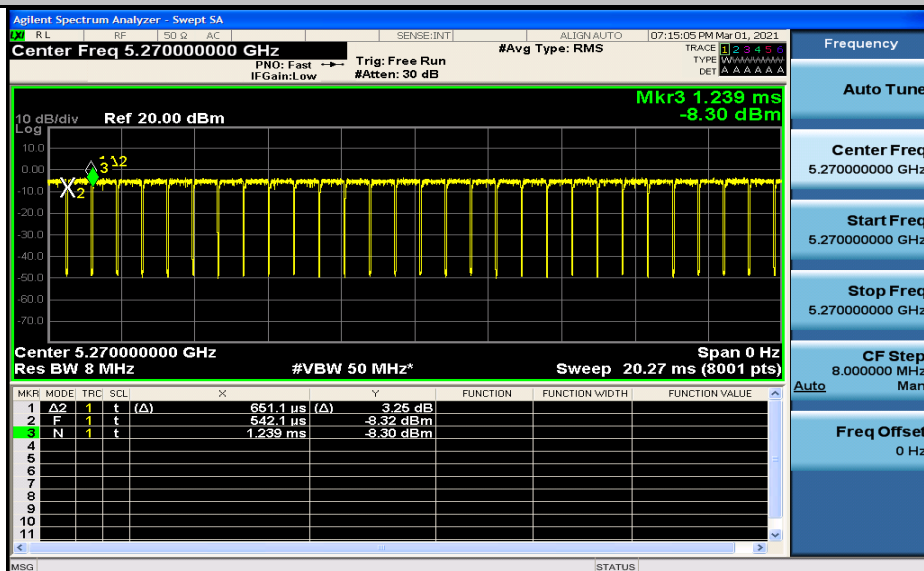
Duty Cycle\_11AC40\_5190\_Ant1



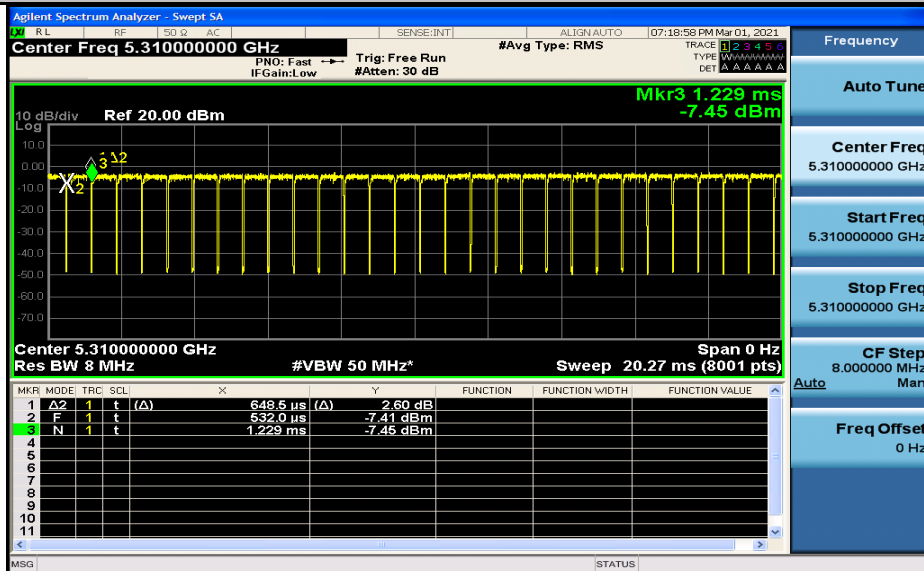
Duty Cycle\_11AC40\_5230\_Ant1



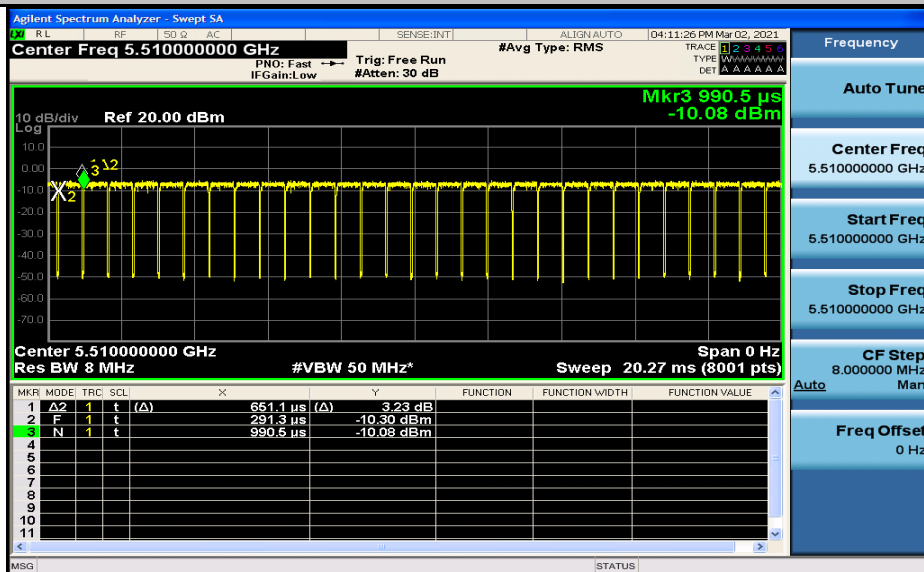
Duty Cycle\_11AC40\_5270\_Ant1



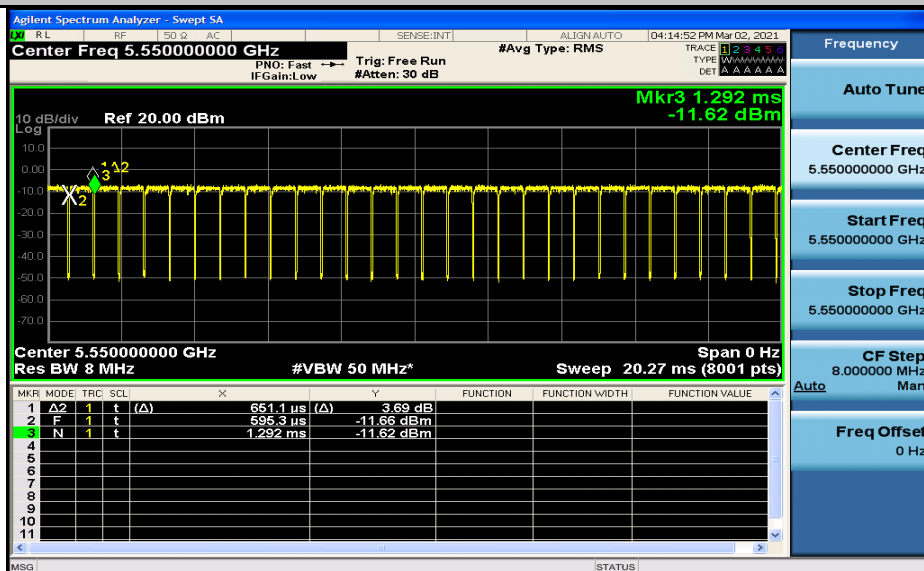
Duty Cycle\_11AC40\_5310\_Ant1



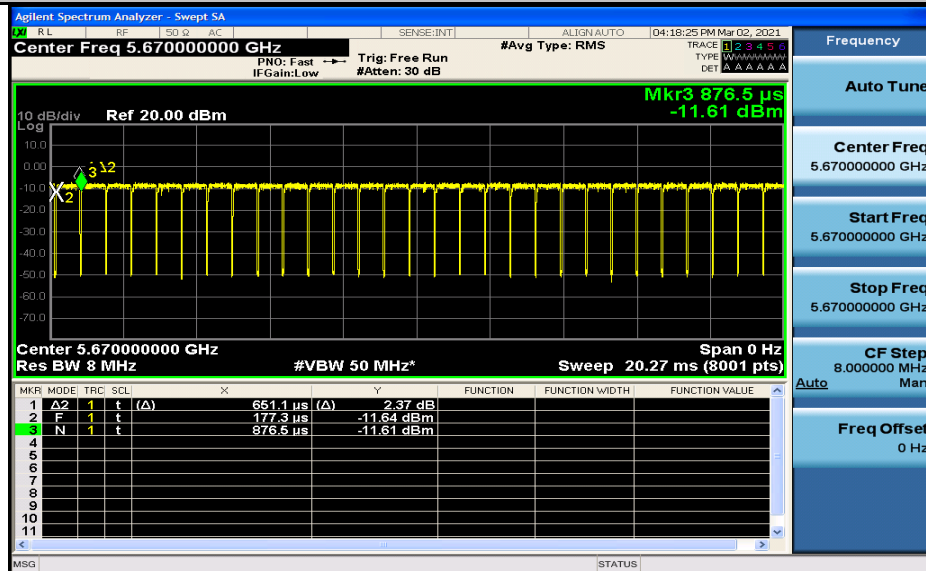
Duty Cycle\_11AC40\_5510\_Ant1



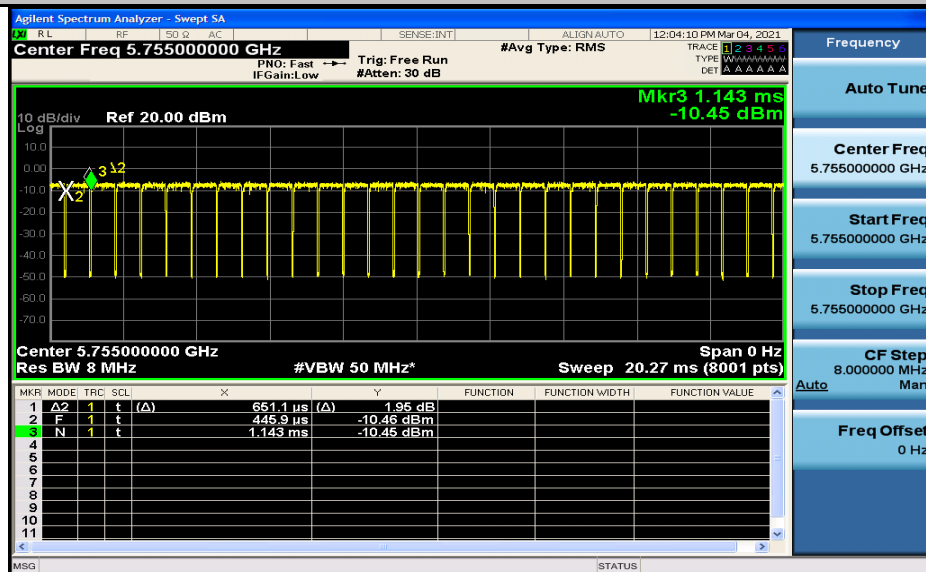
Duty Cycle\_11AC40\_5550\_Ant1



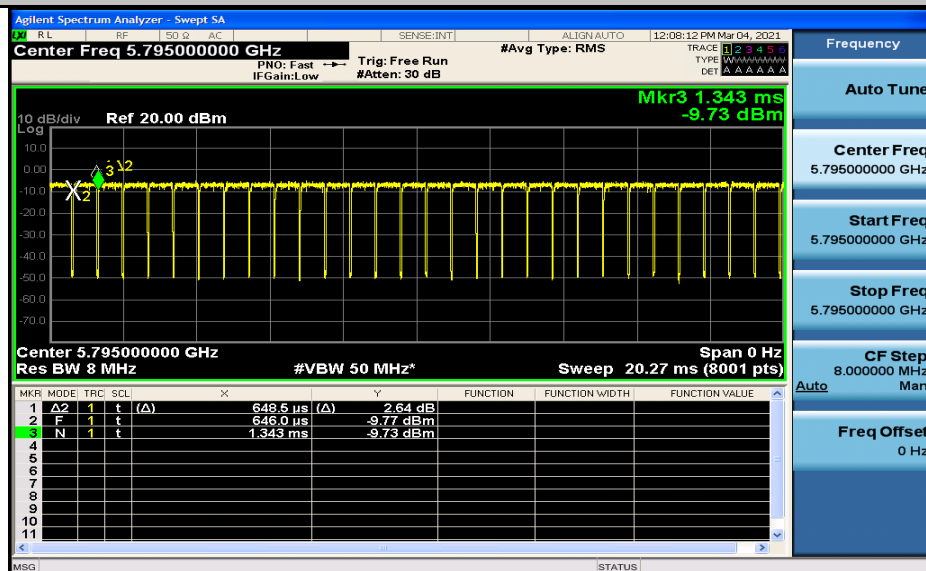
## Duty Cycle\_11AC40\_5670\_Ant1



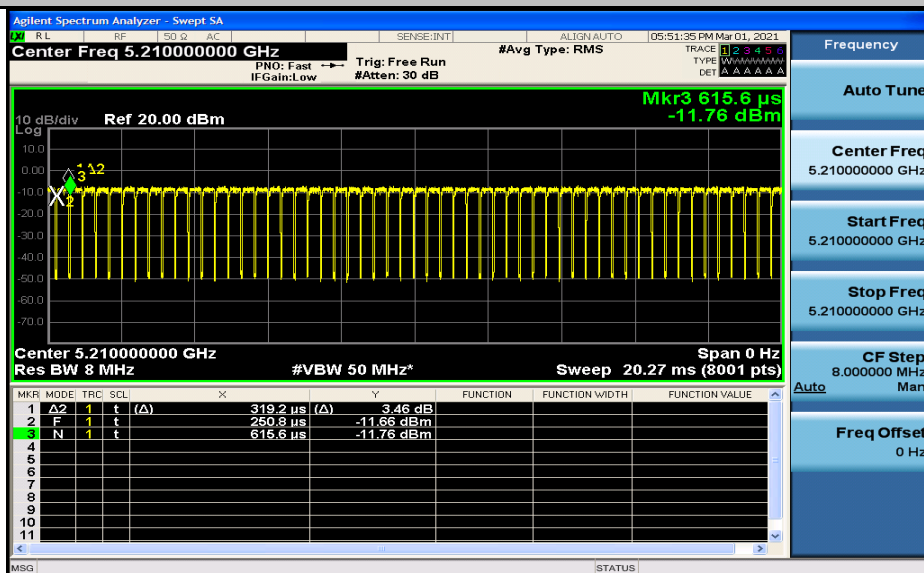
## Duty Cycle\_11AC40\_5755\_Ant1



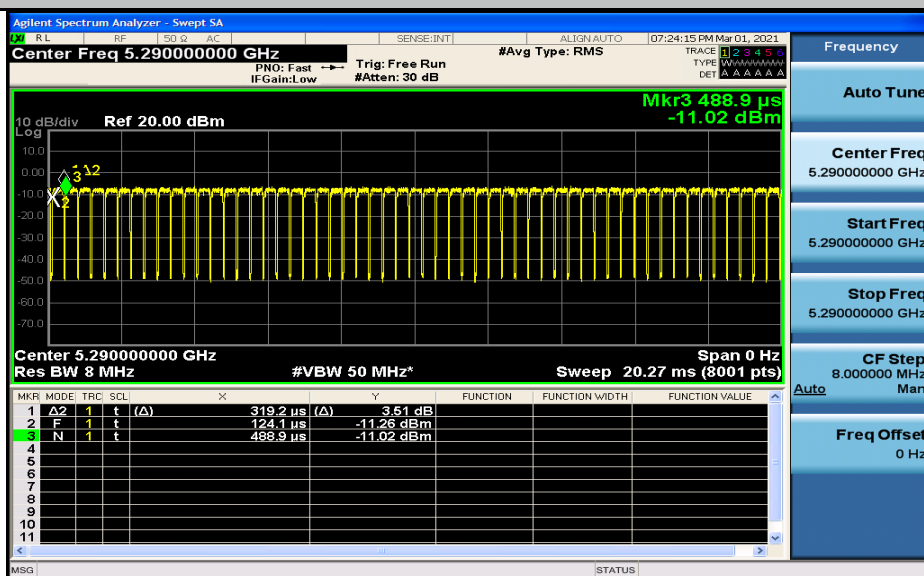
## Duty Cycle\_11AC40\_5795\_Ant1



## Duty Cycle\_11AC80\_5210\_Ant1



## Duty Cycle\_11AC80\_5290\_Ant1



## Duty Cycle\_11AC80\_5530\_Ant1

