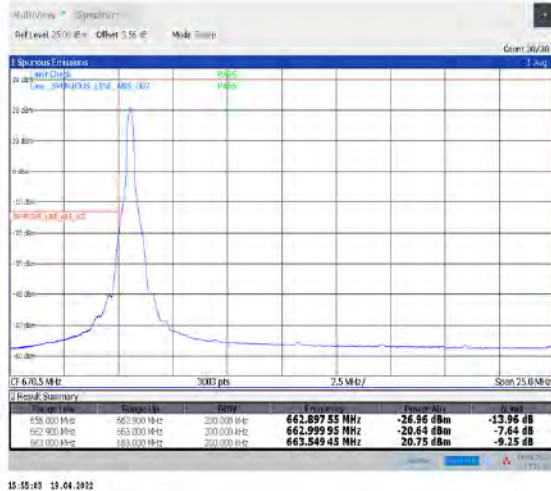


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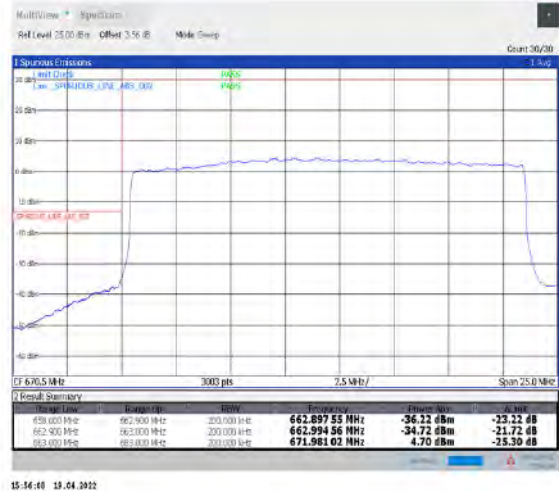
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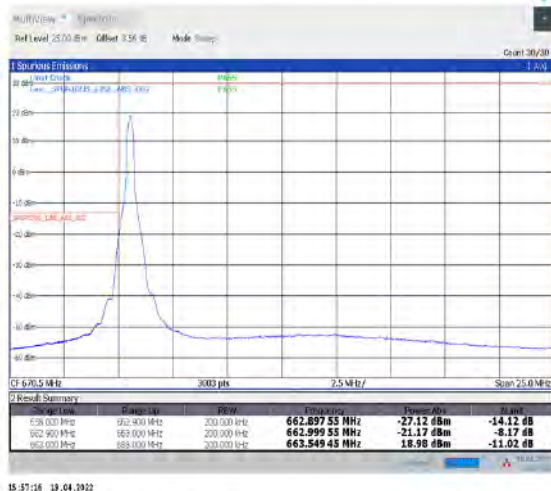
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15:16:48 19.04.2022

1-N71-15-20-L-3-DFT-PI2BPSK-Outer\_Full-100@0-Ant1-PASS-see graph



15:17:16 19.04.2022

1-N71-15-20-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-PASS-see graph



15:18:21 19.04.2022

1-N71-15-20-L-6-CP-QPSK-Outer\_Full-106@0-Ant1-PASS-see graph



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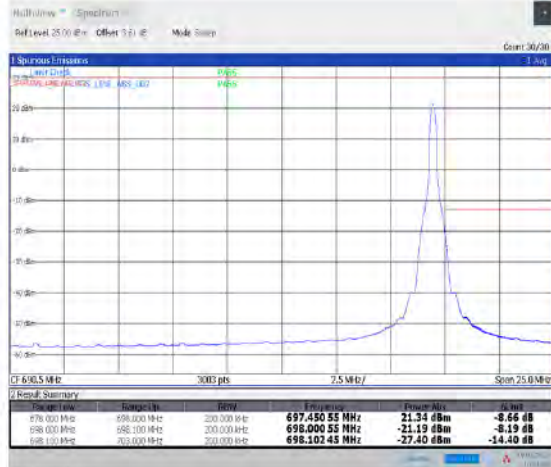
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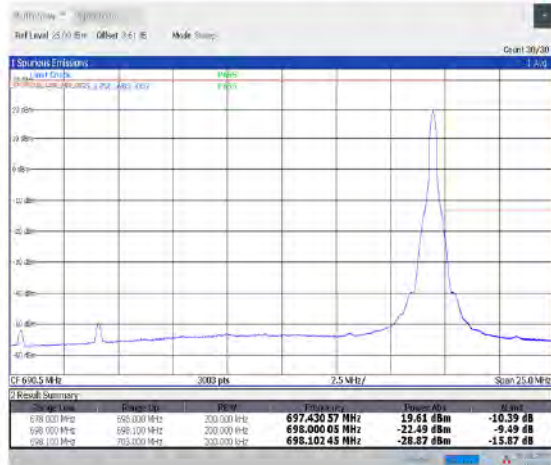
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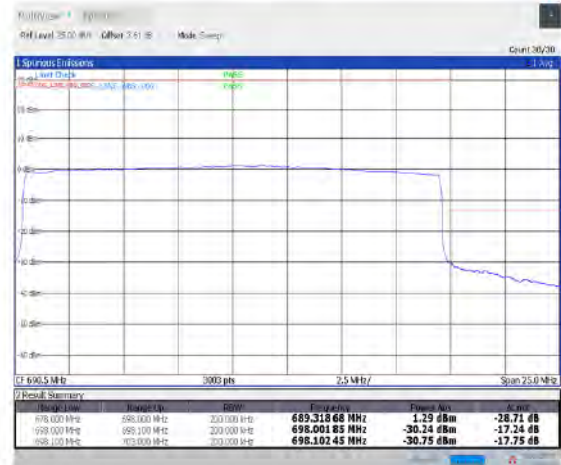
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16:30:13 19.04.2022

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16:30:18 19.04.2022

1-N71-15-20-H-6-CP-QPSK-Outer\_Full-106@0-Ant1-PASS-see graph



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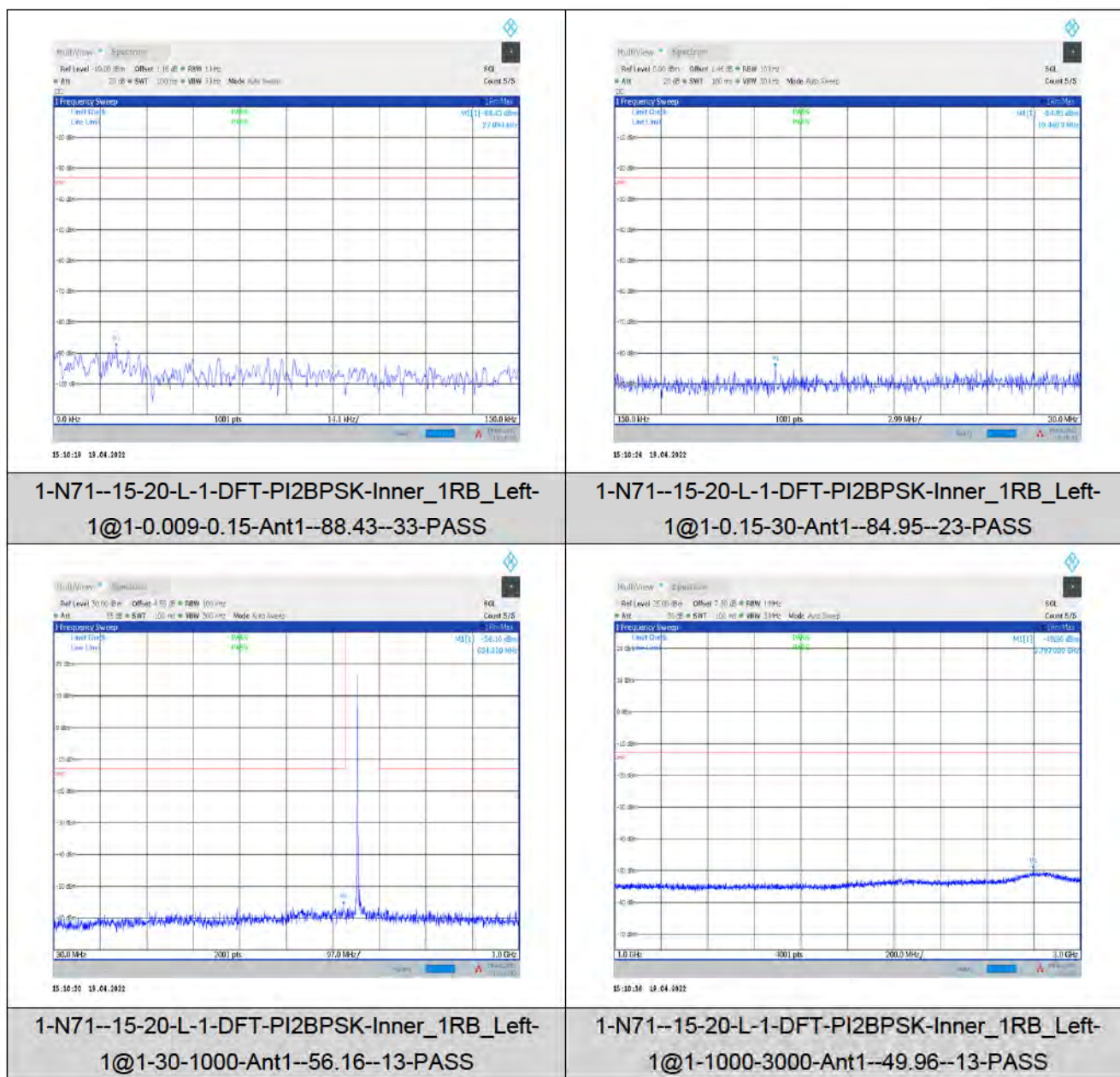
Report No.: SEWM2304000122RG02

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### Conducted Spurious Emission for SA

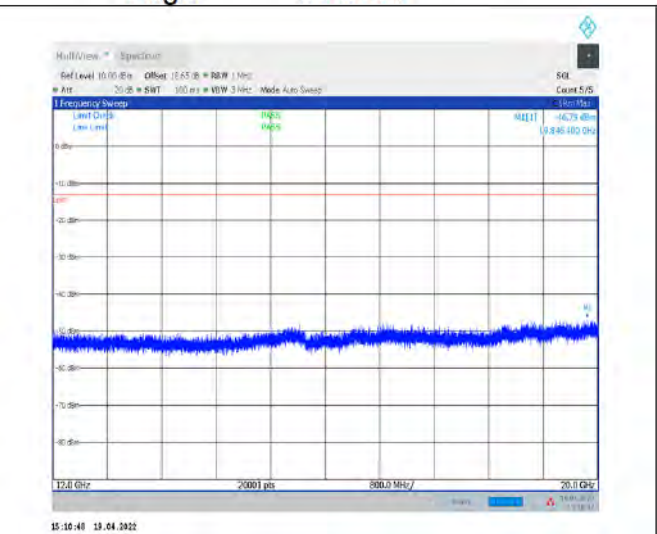
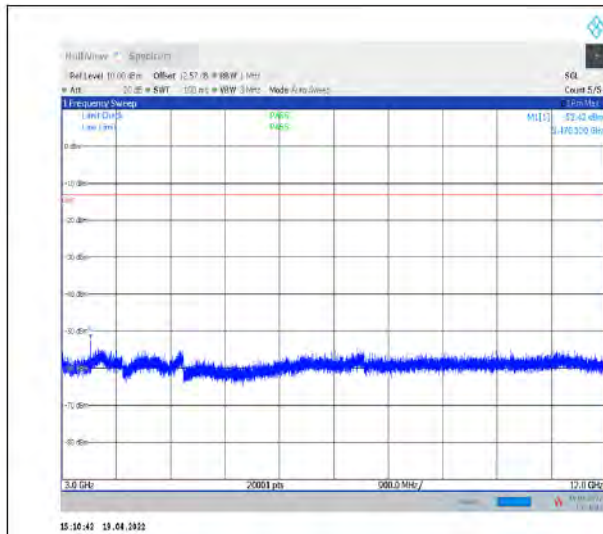
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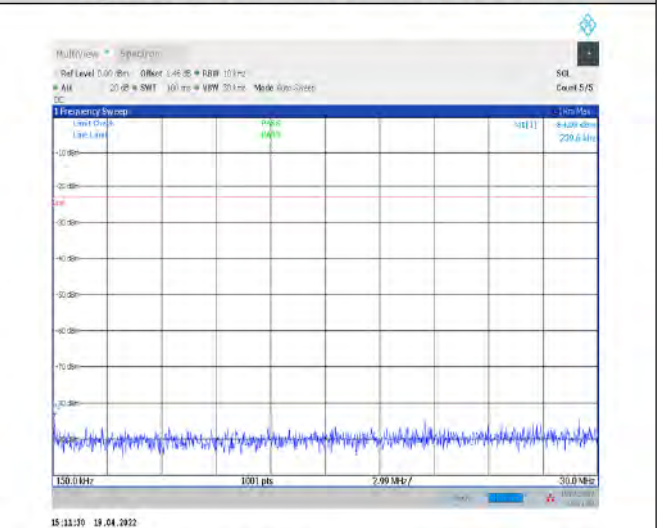
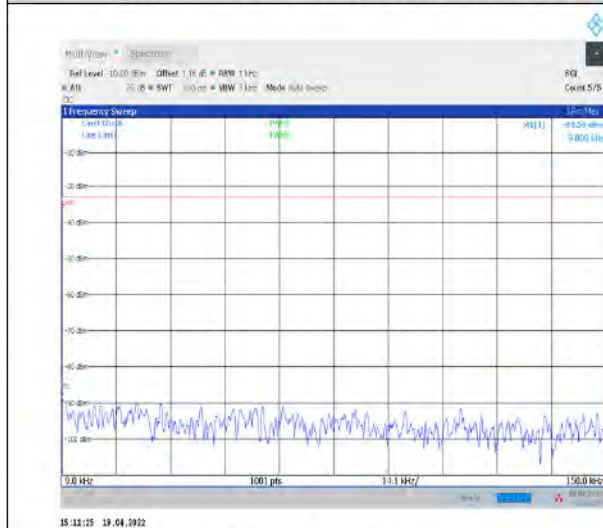
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1-N71-15-20-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-3000-12000-Ant1-52.42-13-PASS

1-N71-15-20-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-12000-20000-Ant1-46.79-13-PASS



1-N71-15-20-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.009-0.15-Ant1--88.59--33-PASS

1-N71-15-20-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.15-30-Ant1--84.08--23-PASS



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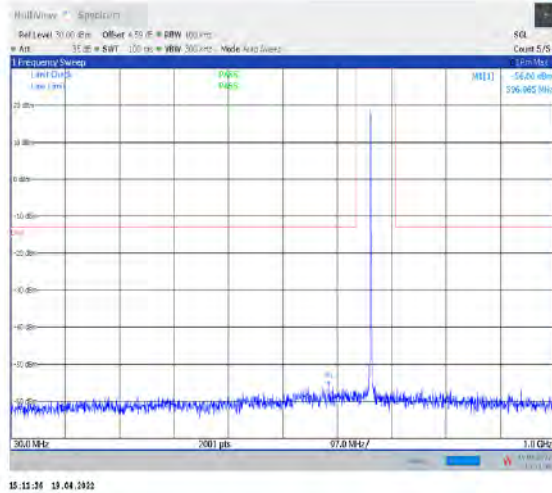
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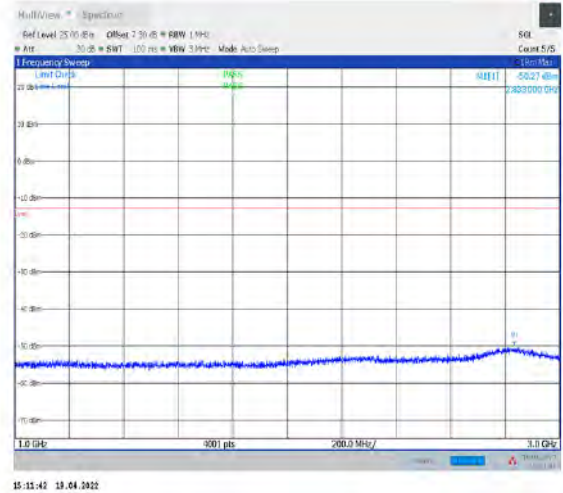
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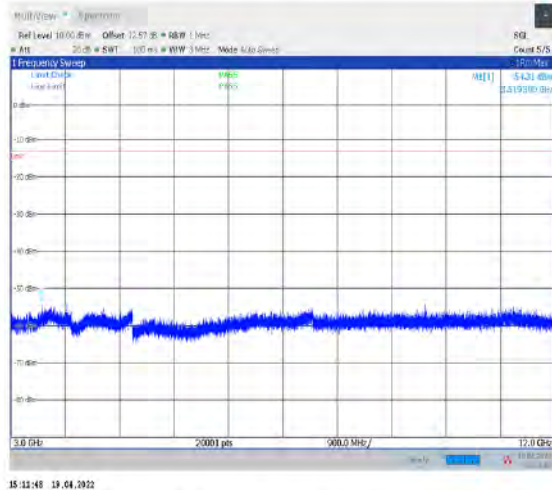
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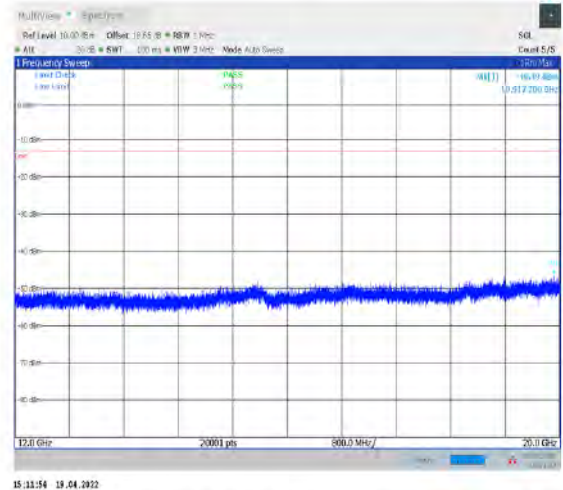
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1-N71--15-20-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-  
1@1-3000-12000-Ant1--54.31--13-PASS



1-N71--15-20-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-  
1@1-12000-20000-Ant1--46.49--13-PASS



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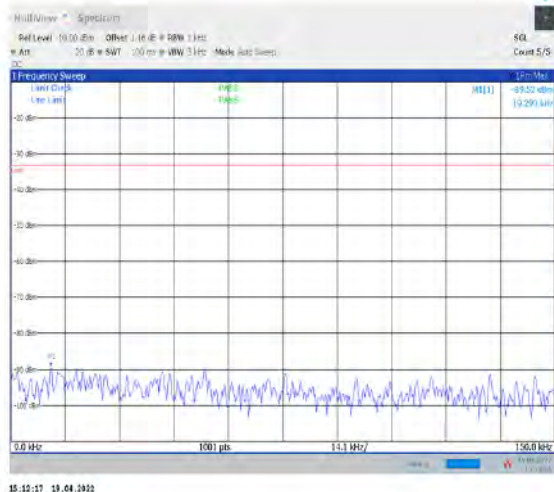
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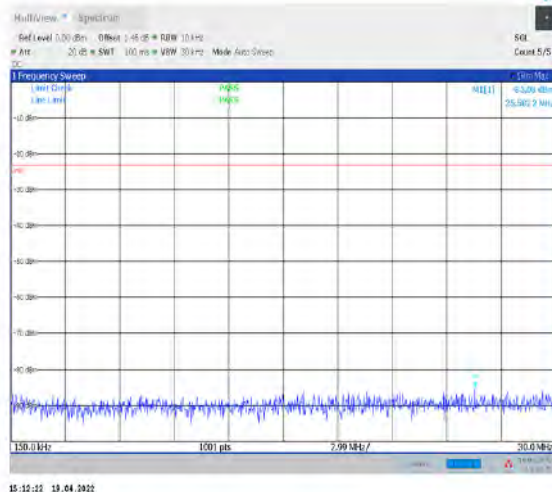
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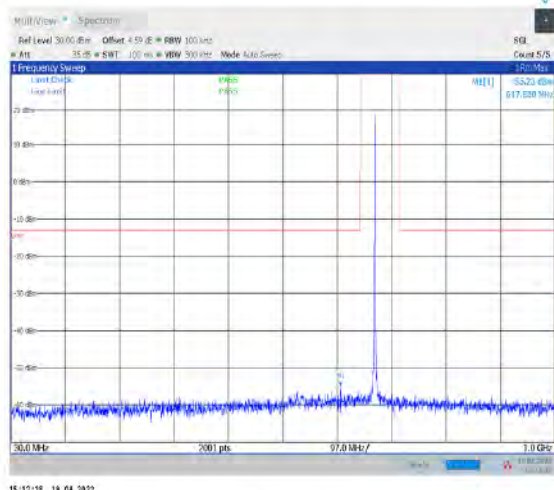
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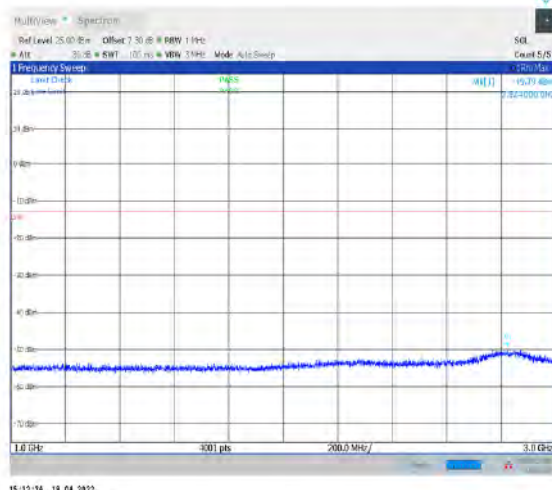
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1-N71-15-20-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-30-1000-Ant1--55.23--13-PASS



1-N71-15-20-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-1000-3000-Ant1--49.79--13-PASS



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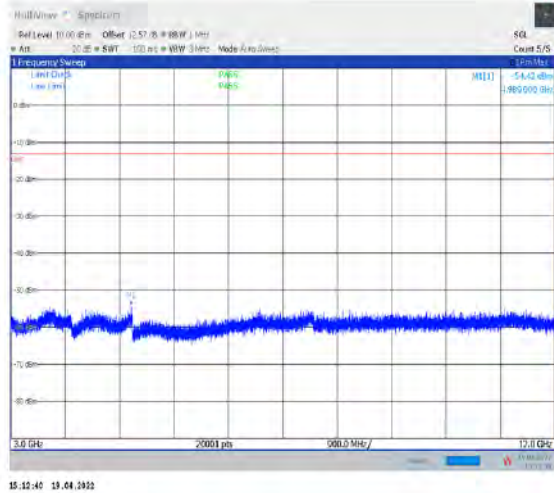
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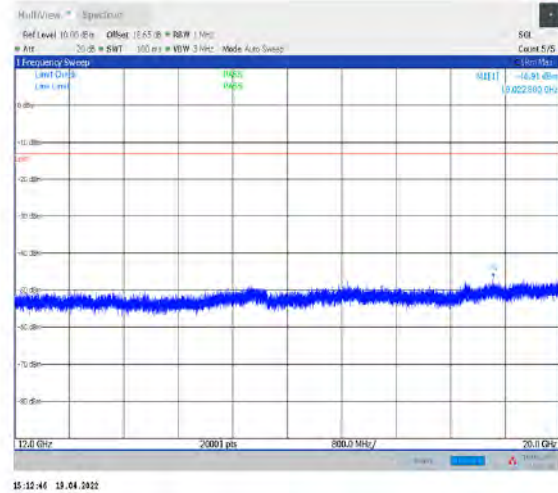
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1-N71--15-20-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-  
1@1-12000-20000-Ant1--46.91--13-PASS



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## Field Strength of Spurious Radiation

Test Band = SA Band 71\_ TM1

Test Channel = Low Channel

| Final Data List |                 |                |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 1328            | 57.54          | -118.50     | -60.96      | -13.00      | 47.96       | 263         | 99        | Horizontal |
| 2               | 1990            | 65.58          | -116.51     | -50.93      | -13.00      | 37.93       | 241         | 280       | Horizontal |
| 3               | 2656.36         | 55.04          | -113.96     | -58.92      | -13.00      | 45.92       | 175         | 0         | Horizontal |
| 4               | 3320.45         | 51.25          | -111.94     | -60.69      | -13.00      | 47.69       | 263         | 1         | Horizontal |
| 5               | 3984.54         | 49.59          | -110.20     | -60.61      | -13.00      | 47.61       | 241         | 272       | Horizontal |
| 6               | 4648.63         | 49.98          | -108.09     | -58.11      | -13.00      | 45.11       | 155         | 29        | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1328.18         | 53.22          | -118.51     | -65.29      | -13.00      | 52.29       | 263         | 277       | Vertical |
| 2               | 1992.27         | 53.45          | -116.48     | -63.03      | -13.00      | 50.03       | 251         | 208       | Vertical |
| 3               | 2656.36         | 52.11          | -113.96     | -61.85      | -13.00      | 48.85       | 144         | 57        | Vertical |
| 4               | 3320.45         | 50.72          | -111.94     | -61.22      | -13.00      | 48.22       | 265         | 358       | Vertical |
| 5               | 3984.54         | 50.28          | -110.20     | -59.92      | -13.00      | 46.92       | 241         | 192       | Vertical |
| 6               | 4648.63         | 50.48          | -108.09     | -57.61      | -13.00      | 44.61       | 187         | 96        | Vertical |



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**Test Band = SA Band 71\_ TM1**
**Test Channel = Mid Channel**

| Final Data List |                 |                |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 1342            | 68.89          | -118.52     | -49.63      | -13.00      | 36.63       | 163         | 231       | Horizontal |
| 2               | 2012            | 84.25          | -116.39     | -32.14      | -13.00      | 19.14       | 284         | 310       | Horizontal |
| 3               | 2686.36         | 54.28          | -113.80     | -59.52      | -13.00      | 46.52       | 176         | 19        | Horizontal |
| 4               | 3357.95         | 52.17          | -112.01     | -59.84      | -13.00      | 46.84       | 254         | 89        | Horizontal |
| 5               | 4029.54         | 49.87          | -110.09     | -60.22      | -13.00      | 47.22       | 142         | 0         | Horizontal |
| 6               | 4701.13         | 49.94          | -107.93     | -57.99      | -13.00      | 44.99       | 263         | 280       | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1343.18         | 53.65          | -118.52     | -64.87      | -13.00      | 51.87       | 142         | 4         | Vertical |
| 2               | 2014.77         | 53.05          | -116.38     | -63.33      | -13.00      | 50.33       | 263         | 353       | Vertical |
| 3               | 2686.36         | 51.72          | -113.80     | -62.08      | -13.00      | 49.08       | 254         | 138       | Vertical |
| 4               | 3357.95         | 51.15          | -112.01     | -60.86      | -13.00      | 47.86       | 144         | 28        | Vertical |
| 5               | 4029.54         | 49.42          | -110.09     | -60.67      | -13.00      | 47.67       | 162         | 222       | Vertical |
| 6               | 4701.13         | 50.24          | -107.93     | -57.69      | -13.00      | 44.69       | 241         | 222       | Vertical |



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**Test Band = SA Band 71\_ TM1**
**Test Channel = High Channel**

| Final Data List |                 |                |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 1356            | 66.12          | -118.54     | -52.42      | -13.00      | 39.42       | 263         | 247       | Horizontal |
| 2               | 2036            | 89.71          | -116.30     | -26.59      | -13.00      | 13.59       | 254         | 357       | Horizontal |
| 3               | 2716.36         | 55.58          | -113.61     | -58.03      | -13.00      | 45.03       | 175         | 0         | Horizontal |
| 4               | 3395.45         | 51.02          | -112.09     | -61.07      | -13.00      | 48.07       | 286         | 343       | Horizontal |
| 5               | 4074.54         | 50.87          | -109.97     | -59.10      | -13.00      | 46.10       | 254         | 343       | Horizontal |
| 6               | 4753.63         | 50.85          | -107.83     | -56.98      | -13.00      | 43.98       | 144         | 271       | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1358.18         | 53.31          | -118.54     | -65.23      | -13.00      | 52.23       | 214         | 347       | Vertical |
| 2               | 2037.27         | 52.50          | -116.29     | -63.79      | -13.00      | 50.79       | 263         | 326       | Vertical |
| 3               | 2716.36         | 53.30          | -113.61     | -60.31      | -13.00      | 47.31       | 254         | 80        | Vertical |
| 4               | 3395.45         | 51.38          | -112.09     | -60.71      | -13.00      | 47.71       | 175         | 239       | Vertical |
| 5               | 4074.54         | 49.57          | -109.97     | -60.40      | -13.00      | 47.40       | 264         | 317       | Vertical |
| 6               | 4753.63         | 50.84          | -107.83     | -56.99      | -13.00      | 43.99       | 118         | 153       | Vertical |



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**Test Band = NR UL CA n41A-n71A\_ TM1**
**Test Channel = Low Channel**
**Final Data List**

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|--------------------|-------------------|----------------|----------------|----------------|----------------|----------------|--------------|------------|
| 1   | 1328.18            | 40.44             | -95.91         | -55.47         | -25.00         | 30.47          | 163            | 89           | Horizontal |
| 2   | 1992.27            | 40.52             | -93.45         | -52.93         | -25.00         | 27.93          | 251            | 360          | Horizontal |
| 3   | 2656.36            | 41.06             | -90.77         | -49.71         | -25.00         | 24.71          | 174            | 80           | Horizontal |
| 4   | 5002.2             | 51.45             | -107.58        | -56.13         | -25.00         | 31.13          | 162            | 220          | Horizontal |
| 5   | 7491.4286          | 57.33             | -100.40        | -43.07         | -25.00         | 18.07          | 241            | 211          | Horizontal |
| 6   | 10004.4            | 45.21             | -93.89         | -48.68         | -25.00         | 23.68          | 188            | 97           | Horizontal |

**Final Data List**

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|--------------------|-------------------|----------------|----------------|----------------|----------------|----------------|--------------|----------|
| 1   | 1328.18            | 40.54             | -95.91         | -55.37         | -25.00         | 30.37          | 142            | 357          | Vertical |
| 2   | 1992.27            | 40.22             | -93.45         | -53.23         | -25.00         | 28.23          | 263            | 359          | Vertical |
| 3   | 2656.36            | 40.14             | -90.77         | -50.63         | -25.00         | 25.63          | 254            | 65           | Vertical |
| 4   | 5002.2             | 51.75             | -107.58        | -55.83         | -25.00         | 30.83          | 175            | 305          | Vertical |
| 5   | 7491.4286          | 52.10             | -100.40        | -48.30         | -25.00         | 23.30          | 263            | 219          | Vertical |
| 6   | 10004.4            | 45.29             | -93.89         | -48.60         | -25.00         | 23.60          | 241            | 0            | Vertical |



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**Test Band = NR UL CA n41A-n71A\_ TM1**
**Test Channel = Mid Channel**

| Final Data List |                 |                |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 1348.18         | 41.05          | -95.84      | -54.79      | -25.00      | 29.79       | 142         | 294       | Horizontal |
| 2               | 2022.27         | 40.83          | -93.32      | -52.49      | -25.00      | 27.49       | 251         | 317       | Horizontal |
| 3               | 2696.36         | 40.63          | -90.55      | -49.92      | -25.00      | 24.92       | 143         | 189       | Horizontal |
| 4               | 5096.16         | 50.33          | -106.96     | -56.63      | -25.00      | 31.63       | 263         | 218       | Horizontal |
| 5               | 7644.24         | 48.54          | -99.76      | -51.22      | -25.00      | 26.22       | 251         | 63        | Horizontal |
| 6               | 10192.32        | 44.14          | -93.11      | -48.97      | -25.00      | 23.97       | 144         | 21        | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1348.18         | 41.36          | -95.84      | -54.48      | -25.00      | 29.48       | 142         | 72        | Vertical |
| 2               | 2022.27         | 40.59          | -93.32      | -52.73      | -25.00      | 27.73       | 263         | 97        | Vertical |
| 3               | 2696.36         | 40.66          | -90.55      | -49.89      | -25.00      | 24.89       | 251         | 65        | Vertical |
| 4               | 5096.16         | 49.88          | -106.96     | -57.08      | -25.00      | 32.08       | 142         | 227       | Vertical |
| 5               | 7644.24         | 49.30          | -99.76      | -50.46      | -25.00      | 25.46       | 263         | 122       | Vertical |
| 6               | 10192.32        | 44.46          | -93.11      | -48.65      | -25.00      | 23.65       | 241         | 166       | Vertical |



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**Test Band = NR UL CA n41A-n71A\_ TM1**
**Test Channel = High Channel**

| Final Data List |                 |                |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 1358.18         | 40.79          | -95.81      | -55.02      | -25.00      | 30.02       | 163         | 360       | Horizontal |
| 2               | 2037.27         | 41.00          | -93.27      | -52.27      | -25.00      | 27.27       | 251         | 289       | Horizontal |
| 3               | 2716.36         | 41.91          | -90.45      | -48.54      | -25.00      | 23.54       | 142         | 105       | Horizontal |
| 4               | 5190.18         | 50.21          | -106.82     | -56.61      | -25.00      | 31.61       | 251         | 139       | Horizontal |
| 5               | 7785.27         | 49.73          | -98.90      | -49.17      | -25.00      | 24.17       | 163         | 296       | Horizontal |
| 6               | 10380.36        | 43.07          | -92.87      | -49.80      | -25.00      | 24.80       | 221         | 209       | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1358.18         | 40.58          | -95.81      | -55.23      | -25.00      | 30.23       | 263         | 104       | Vertical |
| 2               | 2037.27         | 40.18          | -93.27      | -53.09      | -25.00      | 28.09       | 251         | 325       | Vertical |
| 3               | 2716.36         | 40.14          | -90.45      | -50.31      | -25.00      | 25.31       | 142         | 353       | Vertical |
| 4               | 5190.18         | 50.55          | -106.82     | -56.27      | -25.00      | 31.27       | 263         | 132       | Vertical |
| 5               | 7785.27         | 48.68          | -98.90      | -50.22      | -25.00      | 25.22       | 241         | 357       | Vertical |
| 6               | 10380.36        | 42.47          | -92.87      | -50.40      | -25.00      | 25.40       | 123         | 121       | Vertical |



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## Frequency Stability for SA

### Test Result

### Frequency Error VS. Voltage

| Voltage |     |           |             |         |            |         |             |               |                 |         |
|---------|-----|-----------|-------------|---------|------------|---------|-------------|---------------|-----------------|---------|
| Band    | SCS | Bandwidth | Modulation  | Channel | RB Config  | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
| N71     | 15  | 20        | DFT-PI2BPSK | M       | Outer_Full | VH      | NT          | -5.200000     | -0.007641       | PASS    |
| N71     | 15  | 20        | DFT-PI2BPSK | M       | Outer_Full | VN      | NT          | -4.700000     | -0.006907       | PASS    |
| N71     | 15  | 20        | DFT-PI2BPSK | M       | Outer_Full | VL      | NT          | 0.700000      | 0.001029        | PASS    |
| N71     | 15  | 20        | CP-QPSK     | M       | Outer_Full | VH      | NT          | 0.900000      | 0.001323        | PASS    |
| N71     | 15  | 20        | CP-QPSK     | M       | Outer_Full | VN      | NT          | -2.800000     | -0.004115       | PASS    |
| N71     | 15  | 20        | CP-QPSK     | M       | Outer_Full | VL      | NT          | 17.400000     | 0.025569        | PASS    |



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**Frequency Error VS. Temperature**

| Voltage |     |           |             |         |            |         |             |               |                 |         |
|---------|-----|-----------|-------------|---------|------------|---------|-------------|---------------|-----------------|---------|
| Band    | SCS | Bandwidth | Modulation  | Channel | RB Config  | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
| N71     | 15  | 20        | DFT-PI2BPSK | M       | Outer_Full | NV      | -30         | -1.400000     | -0.002057       | PASS    |
| N71     | 15  | 20        | DFT-PI2BPSK | M       | Outer_Full | NV      | -20         | -3.300000     | -0.004849       | PASS    |
| N71     | 15  | 20        | DFT-PI2BPSK | M       | Outer_Full | NV      | -10         | 0.500000      | 0.000735        | PASS    |
| N71     | 15  | 20        | DFT-PI2BPSK | M       | Outer_Full | NV      | 0           | -0.600000     | -0.000882       | PASS    |
| N71     | 15  | 20        | DFT-PI2BPSK | M       | Outer_Full | NV      | 10          | -5.100000     | -0.007494       | PASS    |
| N71     | 15  | 20        | DFT-PI2BPSK | M       | Outer_Full | NV      | 20          | -3.700000     | -0.005437       | PASS    |
| N71     | 15  | 20        | DFT-PI2BPSK | M       | Outer_Full | NV      | 30          | -2.200000     | -0.003233       | PASS    |
| N71     | 15  | 20        | DFT-PI2BPSK | M       | Outer_Full | NV      | 40          | -1.800000     | -0.002645       | PASS    |
| N71     | 15  | 20        | DFT-PI2BPSK | M       | Outer_Full | NV      | 50          | -2.500000     | -0.003674       | PASS    |
| N71     | 15  | 20        | CP-QPSK     | M       | Outer_Full | NV      | -30         | 1.700000      | 0.002498        | PASS    |
| N71     | 15  | 20        | CP-QPSK     | M       | Outer_Full | NV      | -20         | -1.200000     | -0.001763       | PASS    |
| N71     | 15  | 20        | CP-QPSK     | M       | Outer_Full | NV      | -10         | 1.500000      | 0.002204        | PASS    |
| N71     | 15  | 20        | CP-QPSK     | M       | Outer_Full | NV      | 0           | 0.500000      | 0.000735        | PASS    |
| N71     | 15  | 20        | CP-QPSK     | M       | Outer_Full | NV      | 10          | -1.800000     | -0.002645       | PASS    |
| N71     | 15  | 20        | CP-QPSK     | M       | Outer_Full | NV      | 20          | -2.300000     | -0.003380       | PASS    |
| N71     | 15  | 20        | CP-QPSK     | M       | Outer_Full | NV      | 30          | -0.500000     | -0.000735       | PASS    |
| N71     | 15  | 20        | CP-QPSK     | M       | Outer_Full | NV      | 40          | -1.500000     | -0.002204       | PASS    |
| N71     | 15  | 20        | CP-QPSK     | M       | Outer_Full | NV      | 50          | -3.500000     | -0.005143       | PASS    |

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