



Report No.: SEWM2308000314RG02

Rev.: 01

Page: 1 of 32

# Appendix B.25

## NR Band n70



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## Effective (Isotropic) Radiated Power Output Data for SA

### Test Result

#### ANT2

| Band | SCS | Bandwidth | Modulation  | Channel | RB Config       | Power<br>(dBm) | EIRP<br>(dBm) | Limit | Verdict |
|------|-----|-----------|-------------|---------|-----------------|----------------|---------------|-------|---------|
| N70  | 15  | 5         | DFT-QPSK    | L       | Inner_1RB_Left  | 24.03          | 23.23         | 30.00 | PASS    |
| N70  | 15  | 5         | DFT-16QAM   | L       | Inner_1RB_Left  | 23.26          | 22.46         | 30.00 | PASS    |
| N70  | 15  | 5         | DFT-QPSK    | M       | Inner_1RB_Left  | 23.97          | 23.17         | 30.00 | PASS    |
| N70  | 15  | 5         | DFT-16QAM   | M       | Inner_1RB_Left  | 23.18          | 22.38         | 30.00 | PASS    |
| N70  | 15  | 5         | DFT-QPSK    | H       | Inner_1RB_Left  | 24.03          | 23.23         | 30.00 | PASS    |
| N70  | 15  | 5         | DFT-16QAM   | H       | Inner_1RB_Left  | 23.24          | 22.44         | 30.00 | PASS    |
| N70  | 15  | 10        | DFT-QPSK    | L       | Inner_1RB_Left  | 24.07          | 23.27         | 30.00 | PASS    |
| N70  | 15  | 10        | DFT-16QAM   | L       | Inner_1RB_Left  | 23.23          | 22.43         | 30.00 | PASS    |
| N70  | 15  | 10        | DFT-QPSK    | M       | Inner_1RB_Left  | 24.00          | 23.20         | 30.00 | PASS    |
| N70  | 15  | 10        | DFT-16QAM   | M       | Inner_1RB_Left  | 23.23          | 22.43         | 30.00 | PASS    |
| N70  | 15  | 10        | DFT-QPSK    | H       | Inner_1RB_Left  | 23.92          | 23.12         | 30.00 | PASS    |
| N70  | 15  | 10        | DFT-16QAM   | H       | Inner_1RB_Left  | 23.19          | 22.39         | 30.00 | PASS    |
| N70  | 15  | 15        | DFT-PI2BPSK | L       | Inner_1RB_Left  | 23.63          | 22.83         | 30.00 | PASS    |
| N70  | 15  | 15        | DFT-PI2BPSK | L       | Inner_1RB_Right | 23.46          | 22.66         | 30.00 | PASS    |
| N70  | 15  | 15        | DFT-PI2BPSK | L       | Outer_Full      | 23.14          | 22.34         | 30.00 | PASS    |
| N70  | 15  | 15        | DFT-QPSK    | L       | Inner_1RB_Left  | 24.04          | 23.24         | 30.00 | PASS    |
| N70  | 15  | 15        | DFT-QPSK    | L       | Inner_1RB_Right | 23.76          | 22.96         | 30.00 | PASS    |
| N70  | 15  | 15        | DFT-QPSK    | L       | Outer_Full      | 22.71          | 21.91         | 30.00 | PASS    |
| N70  | 15  | 15        | DFT-16QAM   | L       | Inner_1RB_Left  | 23.02          | 22.22         | 30.00 | PASS    |
| N70  | 15  | 15        | DFT-16QAM   | L       | Inner_1RB_Right | 22.96          | 22.16         | 30.00 | PASS    |
| N70  | 15  | 15        | DFT-16QAM   | L       | Outer_Full      | 21.64          | 20.84         | 30.00 | PASS    |
| N70  | 15  | 15        | DFT-64QAM   | L       | Inner_1RB_Left  | 21.29          | 20.49         | 30.00 | PASS    |
| N70  | 15  | 15        | DFT-64QAM   | L       | Inner_1RB_Right | 21.24          | 20.44         | 30.00 | PASS    |
| N70  | 15  | 15        | DFT-64QAM   | L       | Outer_Full      | 21.17          | 20.37         | 30.00 | PASS    |
| N70  | 15  | 15        | DFT-256QAM  | L       | Inner_1RB_Left  | 19.29          | 18.49         | 30.00 | PASS    |
| N70  | 15  | 15        | DFT-256QAM  | L       | Inner_1RB_Right | 19.06          | 18.26         | 30.00 | PASS    |
| N70  | 15  | 15        | DFT-256QAM  | L       | Outer_Full      | 19.16          | 18.36         | 30.00 | PASS    |
| N70  | 15  | 15        | DFT-PI2BPSK | M       | Inner_1RB_Left  | 23.38          | 22.58         | 30.00 | PASS    |



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Report No.: SEWM2308000314RG02

Rev.: 01

Page: 3 of 32

|     |    |    |             |   |                 |       |       |       |      |
|-----|----|----|-------------|---|-----------------|-------|-------|-------|------|
| N70 | 15 | 15 | DFT-PI2BPSK | M | Inner_1RB_Right | 23.41 | 22.61 | 30.00 | PASS |
| N70 | 15 | 15 | DFT-PI2BPSK | M | Outer_Full      | 23.05 | 22.25 | 30.00 | PASS |
| N70 | 15 | 15 | DFT-QPSK    | M | Inner_1RB_Left  | 23.84 | 23.04 | 30.00 | PASS |
| N70 | 15 | 15 | DFT-QPSK    | M | Inner_1RB_Right | 23.72 | 22.92 | 30.00 | PASS |
| N70 | 15 | 15 | DFT-QPSK    | M | Outer_Full      | 22.45 | 21.65 | 30.00 | PASS |
| N70 | 15 | 15 | DFT-16QAM   | M | Inner_1RB_Left  | 22.89 | 22.09 | 30.00 | PASS |
| N70 | 15 | 15 | DFT-16QAM   | M | Inner_1RB_Right | 22.85 | 22.05 | 30.00 | PASS |
| N70 | 15 | 15 | DFT-16QAM   | M | Outer_Full      | 21.53 | 20.73 | 30.00 | PASS |
| N70 | 15 | 15 | DFT-64QAM   | M | Inner_1RB_Left  | 21.18 | 20.38 | 30.00 | PASS |
| N70 | 15 | 15 | DFT-64QAM   | M | Inner_1RB_Right | 21.03 | 20.23 | 30.00 | PASS |
| N70 | 15 | 15 | DFT-64QAM   | M | Outer_Full      | 21.07 | 20.27 | 30.00 | PASS |
| N70 | 15 | 15 | DFT-256QAM  | M | Inner_1RB_Left  | 19.13 | 18.33 | 30.00 | PASS |
| N70 | 15 | 15 | DFT-256QAM  | M | Inner_1RB_Right | 19.01 | 18.21 | 30.00 | PASS |
| N70 | 15 | 15 | DFT-256QAM  | M | Outer_Full      | 18.91 | 18.11 | 30.00 | PASS |
| N70 | 15 | 15 | DFT-PI2BPSK | H | Inner_1RB_Left  | 23.49 | 22.69 | 30.00 | PASS |
| N70 | 15 | 15 | DFT-PI2BPSK | H | Inner_1RB_Right | 23.29 | 22.49 | 30.00 | PASS |
| N70 | 15 | 15 | DFT-PI2BPSK | H | Outer_Full      | 22.90 | 22.10 | 30.00 | PASS |
| N70 | 15 | 15 | DFT-QPSK    | H | Inner_1RB_Left  | 23.66 | 22.86 | 30.00 | PASS |
| N70 | 15 | 15 | DFT-QPSK    | H | Inner_1RB_Right | 23.79 | 22.99 | 30.00 | PASS |
| N70 | 15 | 15 | DFT-QPSK    | H | Outer_Full      | 22.40 | 21.60 | 30.00 | PASS |
| N70 | 15 | 15 | DFT-16QAM   | H | Inner_1RB_Left  | 22.80 | 22.00 | 30.00 | PASS |
| N70 | 15 | 15 | DFT-16QAM   | H | Inner_1RB_Right | 22.94 | 22.14 | 30.00 | PASS |
| N70 | 15 | 15 | DFT-16QAM   | H | Outer_Full      | 21.56 | 20.76 | 30.00 | PASS |
| N70 | 15 | 15 | DFT-64QAM   | H | Inner_1RB_Left  | 21.16 | 20.36 | 30.00 | PASS |
| N70 | 15 | 15 | DFT-64QAM   | H | Inner_1RB_Right | 21.20 | 20.40 | 30.00 | PASS |
| N70 | 15 | 15 | DFT-64QAM   | H | Outer_Full      | 20.93 | 20.13 | 30.00 | PASS |
| N70 | 15 | 15 | DFT-256QAM  | H | Inner_1RB_Left  | 19.01 | 18.21 | 30.00 | PASS |
| N70 | 15 | 15 | DFT-256QAM  | H | Inner_1RB_Right | 18.97 | 18.17 | 30.00 | PASS |
| N70 | 15 | 15 | DFT-256QAM  | H | Outer_Full      | 18.91 | 18.11 | 30.00 | PASS |



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Report No.: SEWM2308000314RG02  
Rev.: 01  
Page: 4 of 32

## Peak-to-Average Ratio for SA

### Test Result

| Band | SCS | Bandwidth | Modulation | Channel | RB Config  | Result | Limit | Verdict |
|------|-----|-----------|------------|---------|------------|--------|-------|---------|
| N70  | 15  | 15        | DFT-256QAM | L       | Outer_Full | 8.82   | ≤13   | PASS    |
| N70  | 15  | 15        | CP-256QAM  | L       | Outer_Full | 9.61   | ≤13   | PASS    |
| N70  | 15  | 15        | DFT-256QAM | M       | Outer_Full | 8.90   | ≤13   | PASS    |
| N70  | 15  | 15        | CP-256QAM  | M       | Outer_Full | 9.71   | ≤13   | PASS    |
| N70  | 15  | 15        | DFT-256QAM | H       | Outer_Full | 9.03   | ≤13   | PASS    |
| N70  | 15  | 15        | CP-256QAM  | H       | Outer_Full | 9.64   | ≤13   | PASS    |

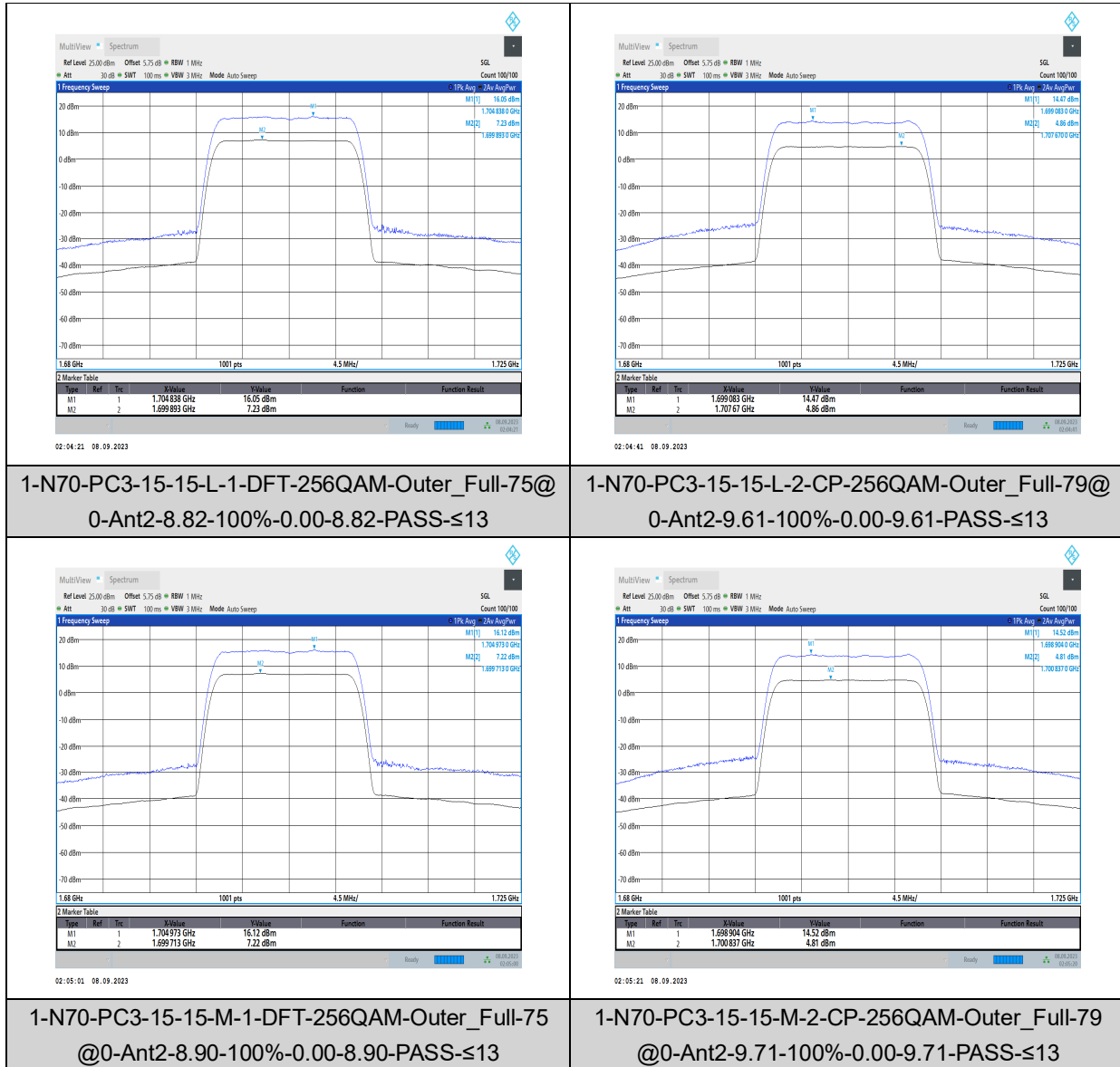


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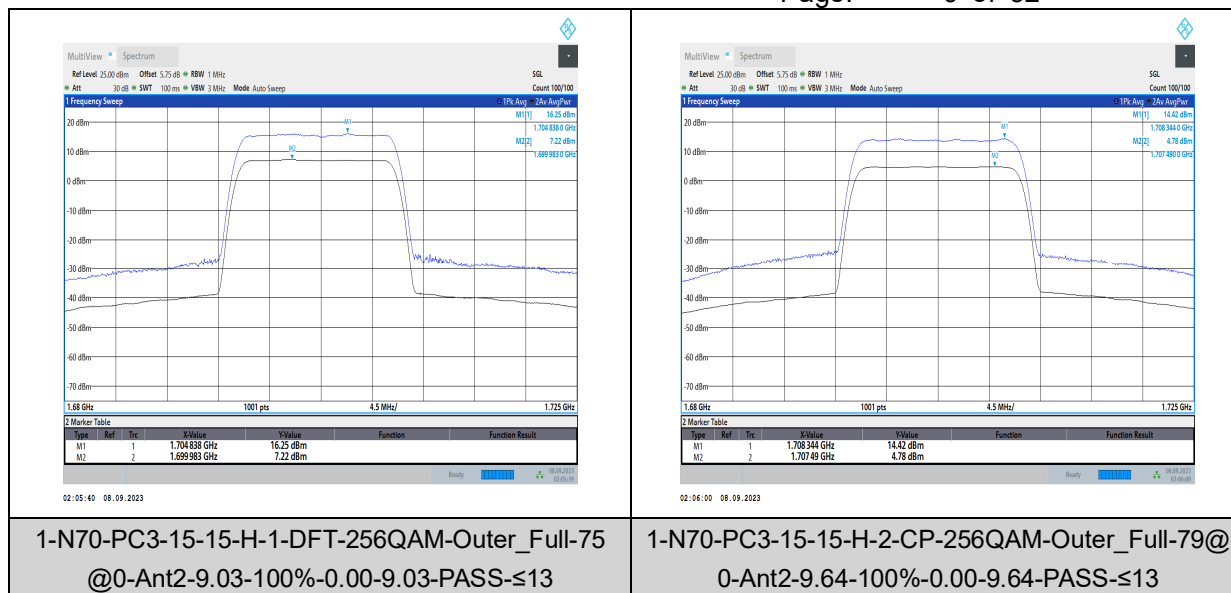
### Test Graphs



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Rev.: 01

Page: 6 of 32



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 Rev.: 01  
 Page: 7 of 32

## 26dB Bandwidth and Occupied Bandwidth for SA

### Test Result

| Band | SCS | Bandwidth | Modulation  | Channel | RB Config  | Result (99%) | Result (26dB) | Verdict |
|------|-----|-----------|-------------|---------|------------|--------------|---------------|---------|
| N70  | 15  | 5         | DFT-QPSK    | M       | Outer_Full | 4.482        | 4.750         | PASS    |
| N70  | 15  | 5         | DFT-PI2BPSK | M       | Outer_Full | 4.479        | 4.800         | PASS    |
| N70  | 15  | 5         | DFT-16QAM   | M       | Outer_Full | 4.472        | 4.780         | PASS    |
| N70  | 15  | 5         | DFT-64QAM   | M       | Outer_Full | 4.447        | 4.710         | PASS    |
| N70  | 15  | 5         | DFT-256QAM  | M       | Outer_Full | 4.467        | 4.740         | PASS    |
| N70  | 15  | 5         | CP-QPSK     | M       | Outer_Full | 4.484        | 4.800         | PASS    |
| N70  | 15  | 5         | CP-16QAM    | M       | Outer_Full | 4.483        | 4.780         | PASS    |
| N70  | 15  | 5         | CP-64QAM    | M       | Outer_Full | 4.463        | 4.780         | PASS    |
| N70  | 15  | 5         | CP-256QAM   | M       | Outer_Full | 4.462        | 4.790         | PASS    |
| N70  | 15  | 10        | DFT-QPSK    | M       | Outer_Full | 8.936        | 9.340         | PASS    |
| N70  | 15  | 10        | DFT-PI2BPSK | M       | Outer_Full | 8.934        | 9.380         | PASS    |
| N70  | 15  | 10        | DFT-16QAM   | M       | Outer_Full | 8.928        | 9.360         | PASS    |
| N70  | 15  | 10        | DFT-64QAM   | M       | Outer_Full | 8.908        | 9.320         | PASS    |
| N70  | 15  | 10        | DFT-256QAM  | M       | Outer_Full | 8.922        | 9.420         | PASS    |
| N70  | 15  | 10        | CP-QPSK     | M       | Outer_Full | 9.272        | 9.760         | PASS    |
| N70  | 15  | 10        | CP-16QAM    | M       | Outer_Full | 9.276        | 9.720         | PASS    |
| N70  | 15  | 10        | CP-64QAM    | M       | Outer_Full | 9.282        | 9.760         | PASS    |
| N70  | 15  | 10        | CP-256QAM   | M       | Outer_Full | 9.282        | 9.760         | PASS    |
| N70  | 15  | 15        | DFT-QPSK    | M       | Outer_Full | 13.451       | 14.070        | PASS    |
| N70  | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | 13.444       | 14.160        | PASS    |
| N70  | 15  | 15        | DFT-16QAM   | M       | Outer_Full | 13.427       | 14.040        | PASS    |
| N70  | 15  | 15        | DFT-64QAM   | M       | Outer_Full | 13.422       | 14.040        | PASS    |
| N70  | 15  | 15        | DFT-256QAM  | M       | Outer_Full | 13.418       | 14.100        | PASS    |
| N70  | 15  | 15        | CP-QPSK     | M       | Outer_Full | 14.109       | 14.850        | PASS    |
| N70  | 15  | 15        | CP-16QAM    | M       | Outer_Full | 14.094       | 14.760        | PASS    |
| N70  | 15  | 15        | CP-64QAM    | M       | Outer_Full | 14.138       | 14.730        | PASS    |
| N70  | 15  | 15        | CP-256QAM   | M       | Outer_Full | 14.097       | 14.880        | PASS    |



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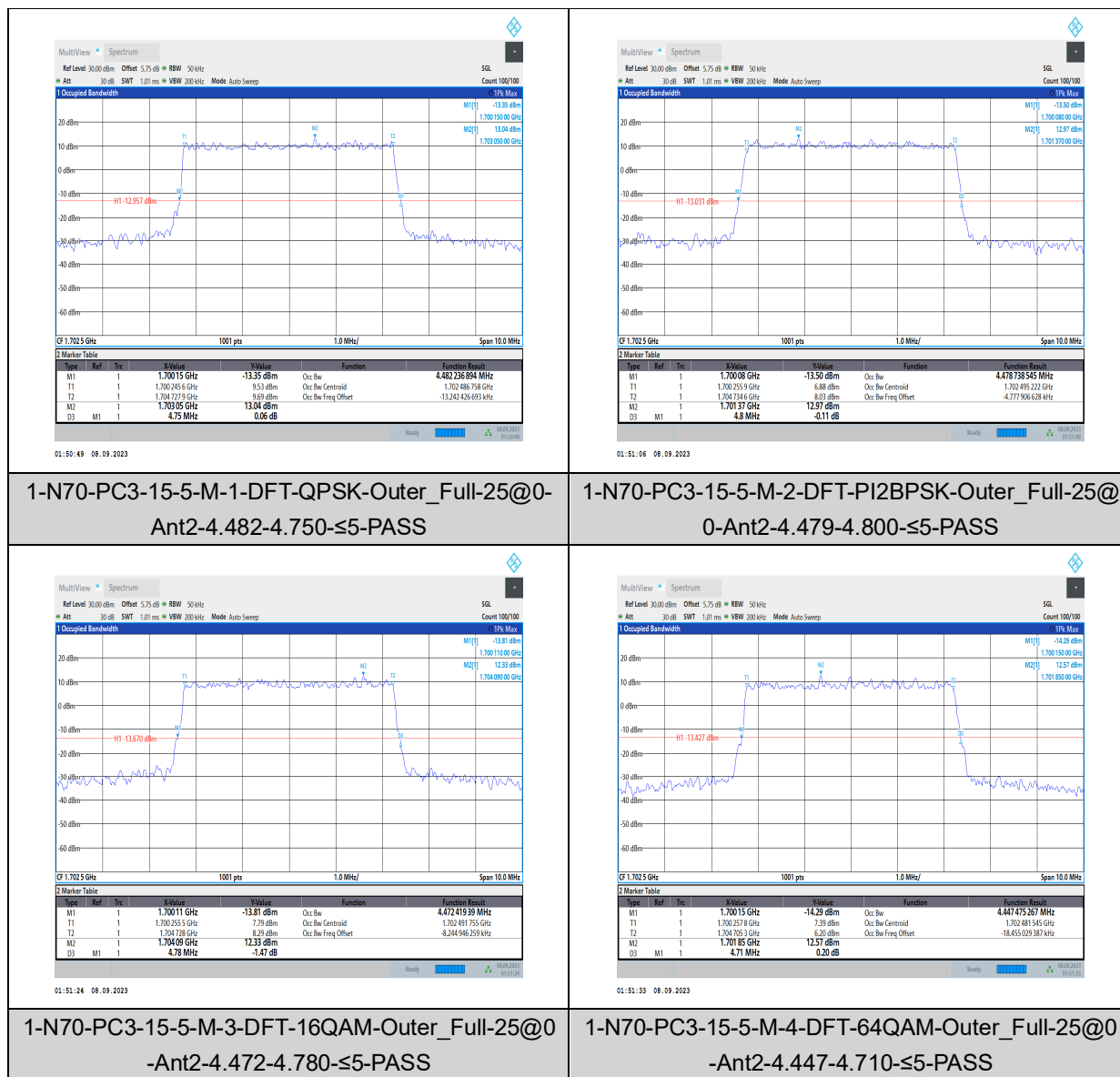
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Rev.: 01

Page: 8 of 32

## Test Graphs



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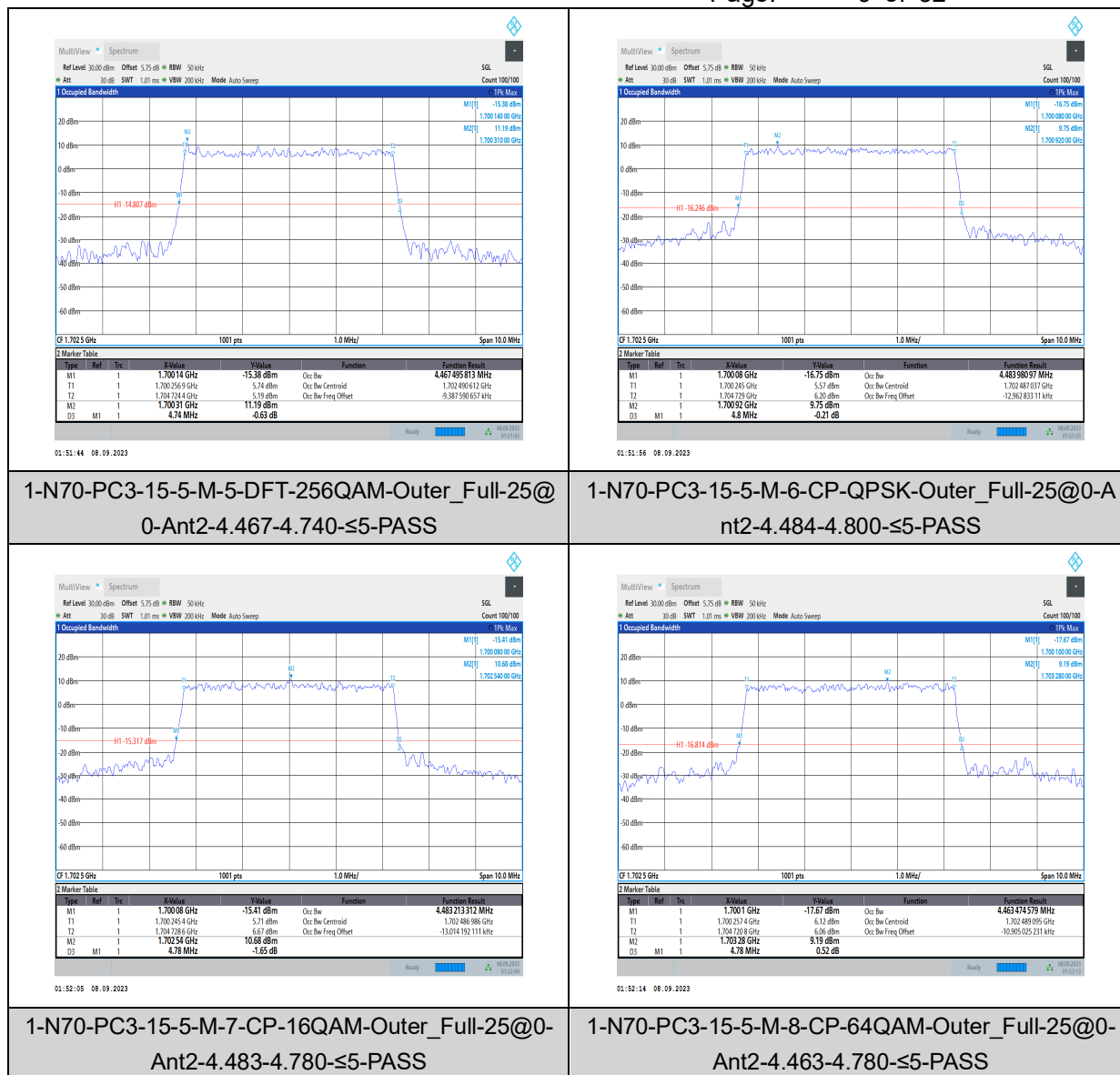
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Page: 9 of 32



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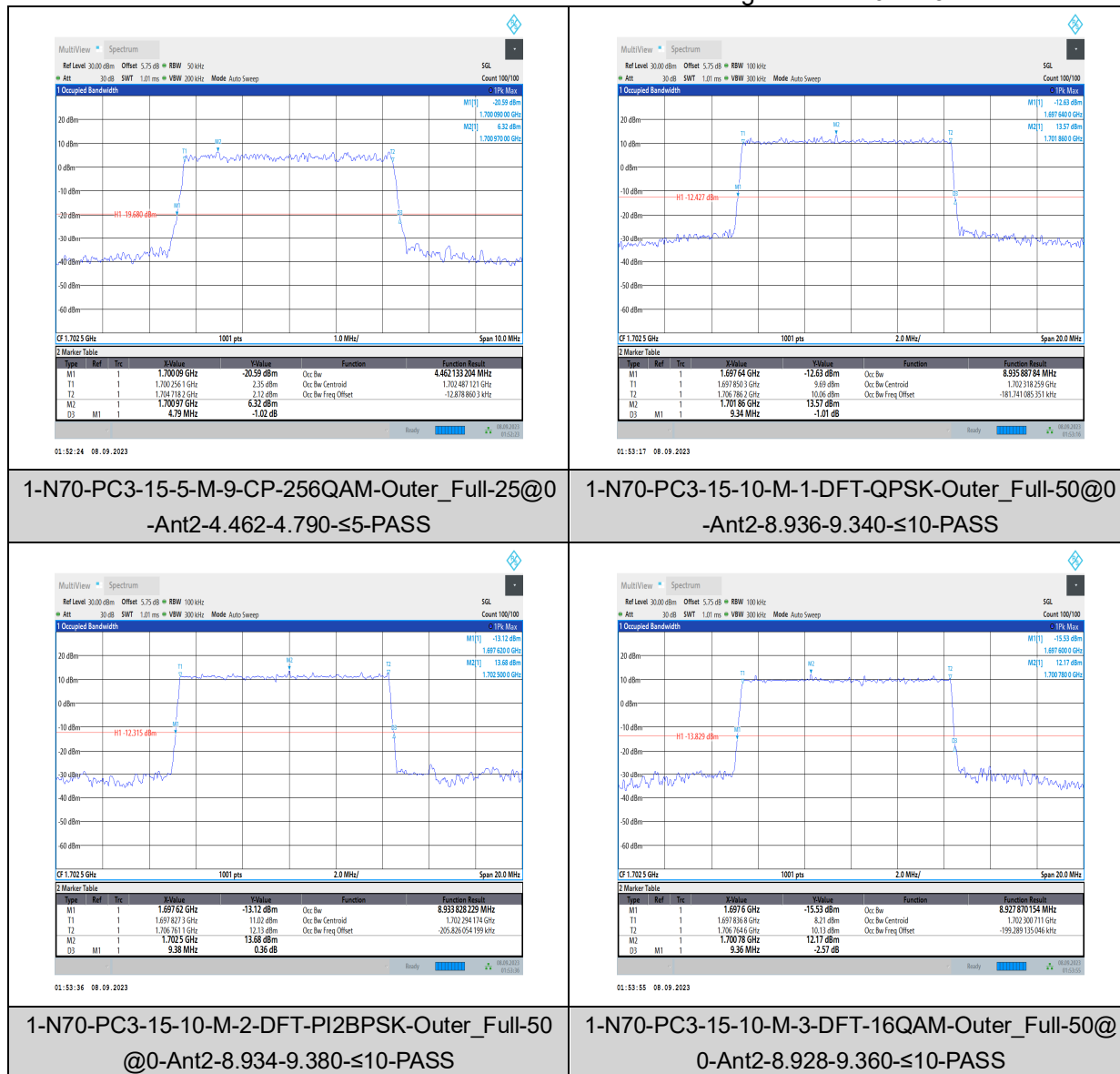
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Rev.: 01

Page: 10 of 32



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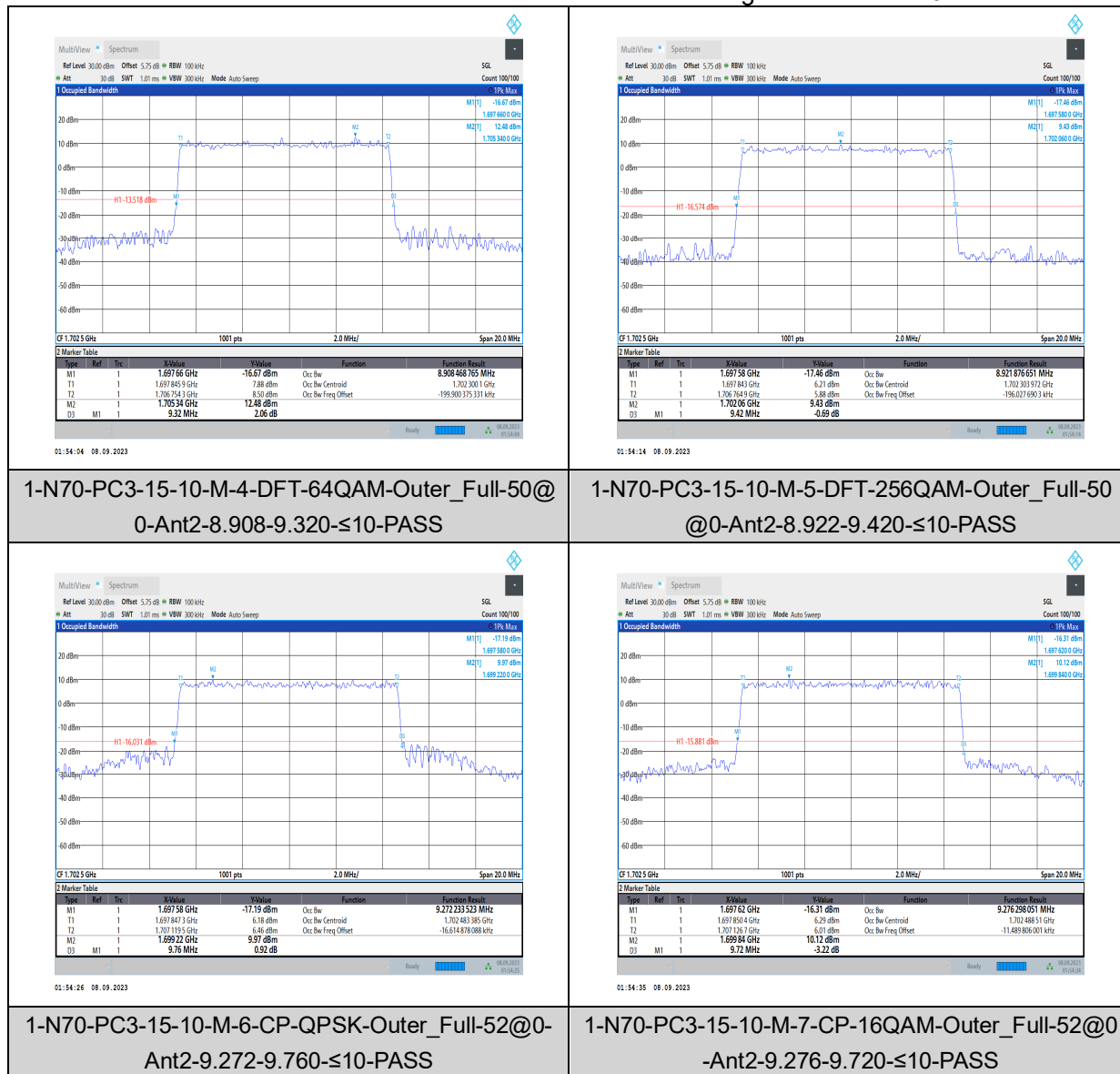
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Report No.: SEWM2308000314RG02

Rev.: 01

Page: 11 of 32



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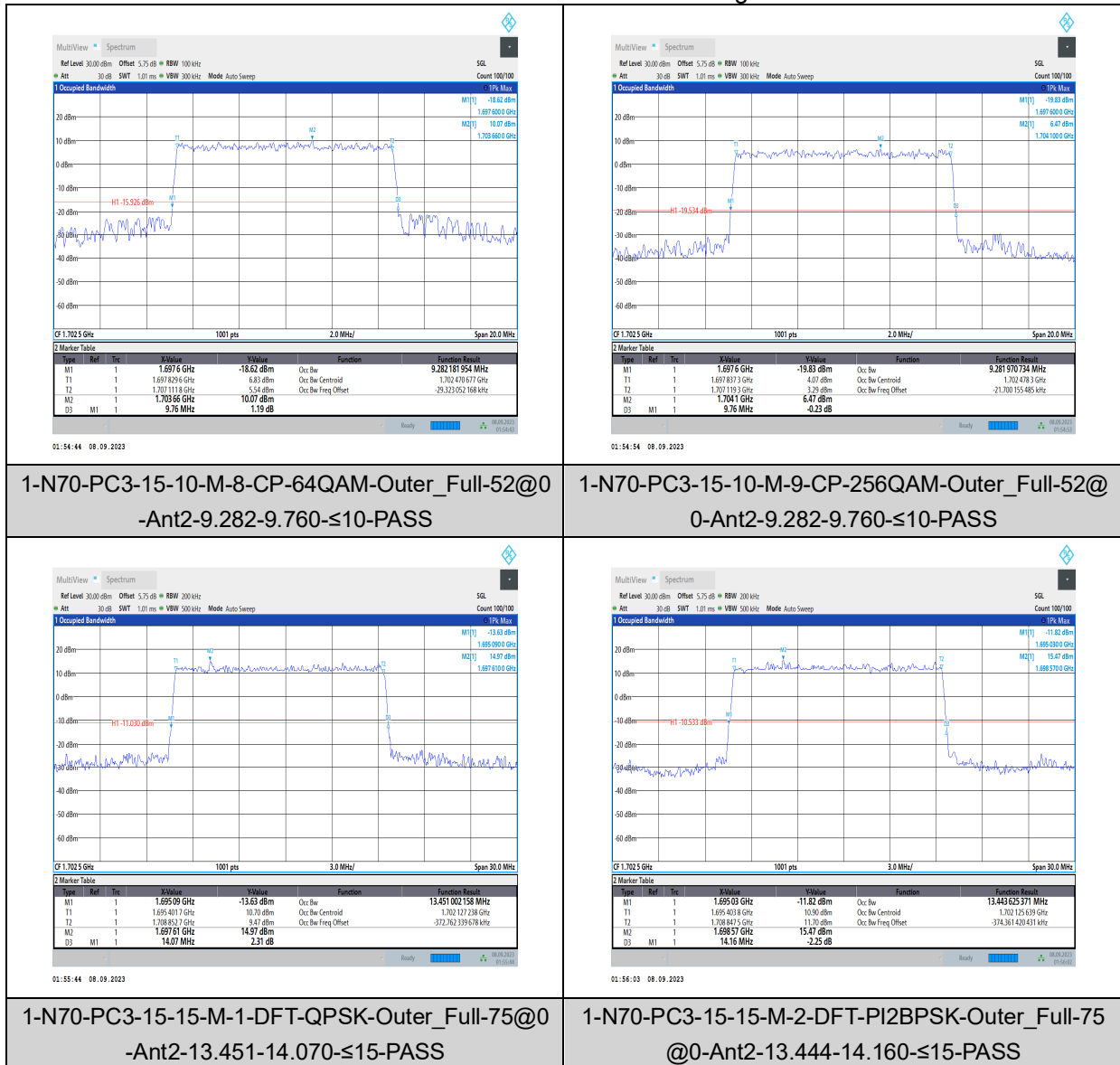
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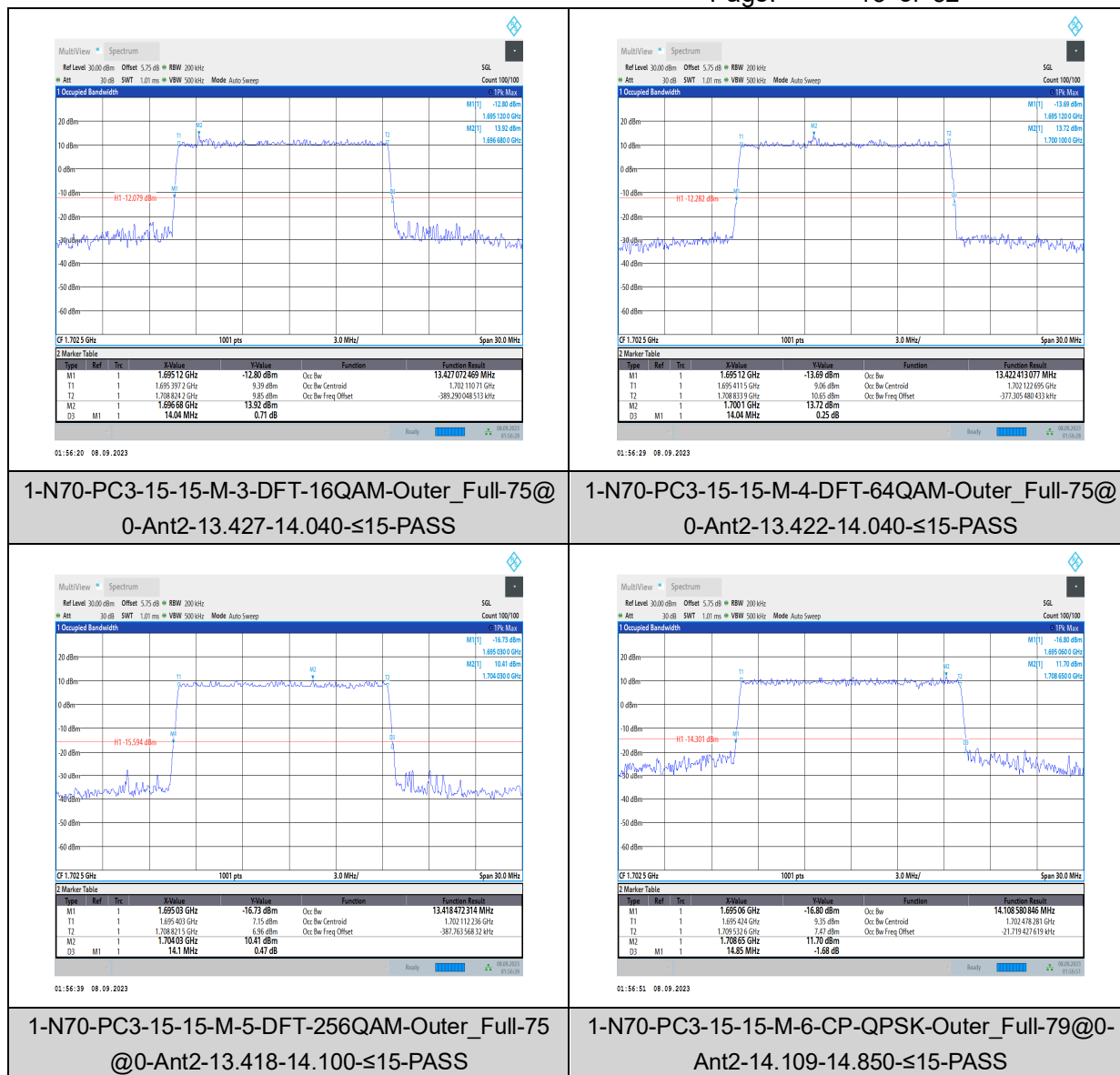
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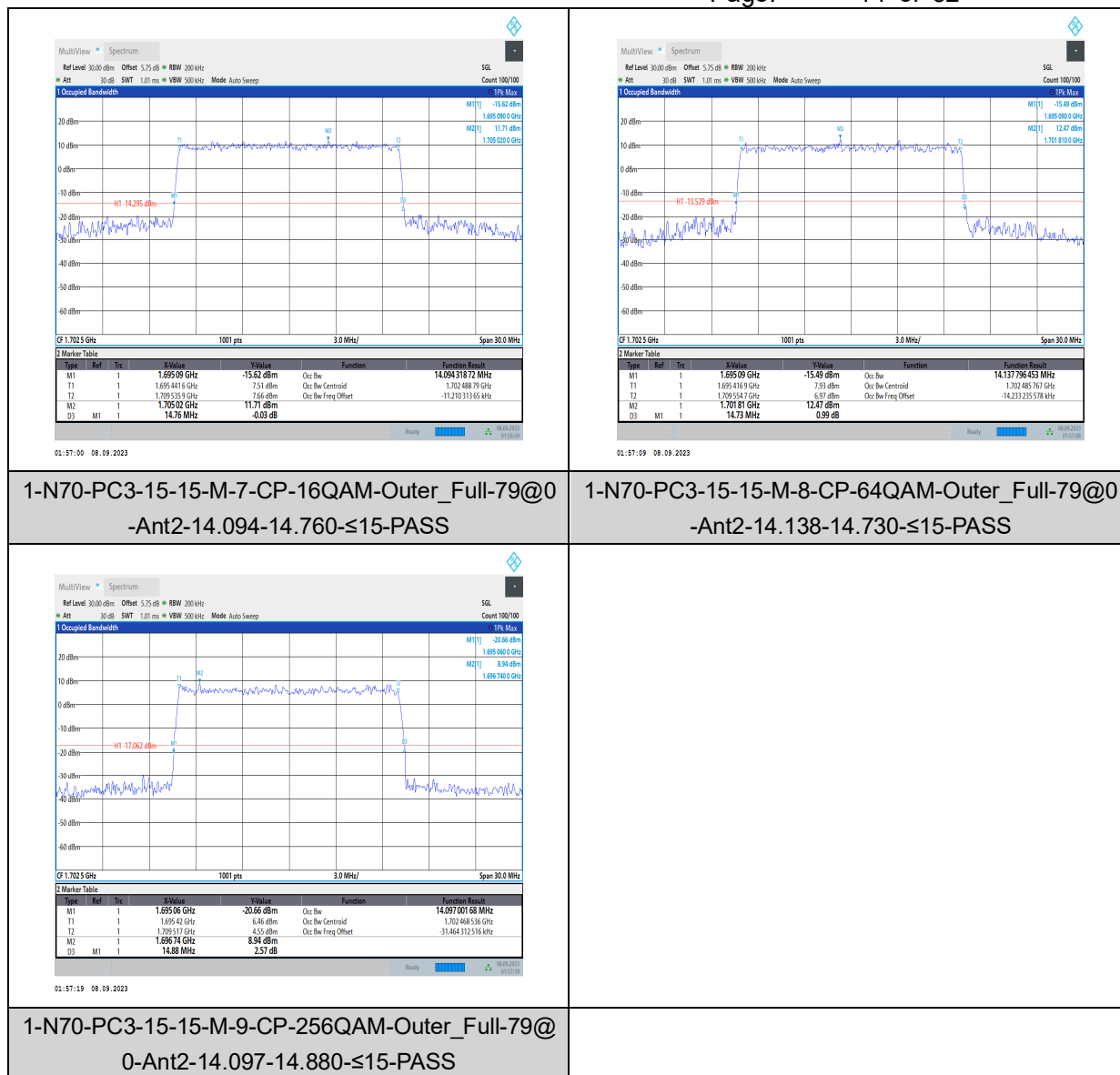
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Report No.: SEWM2308000314RG02

Rev.: 01

Page: 14 of 32



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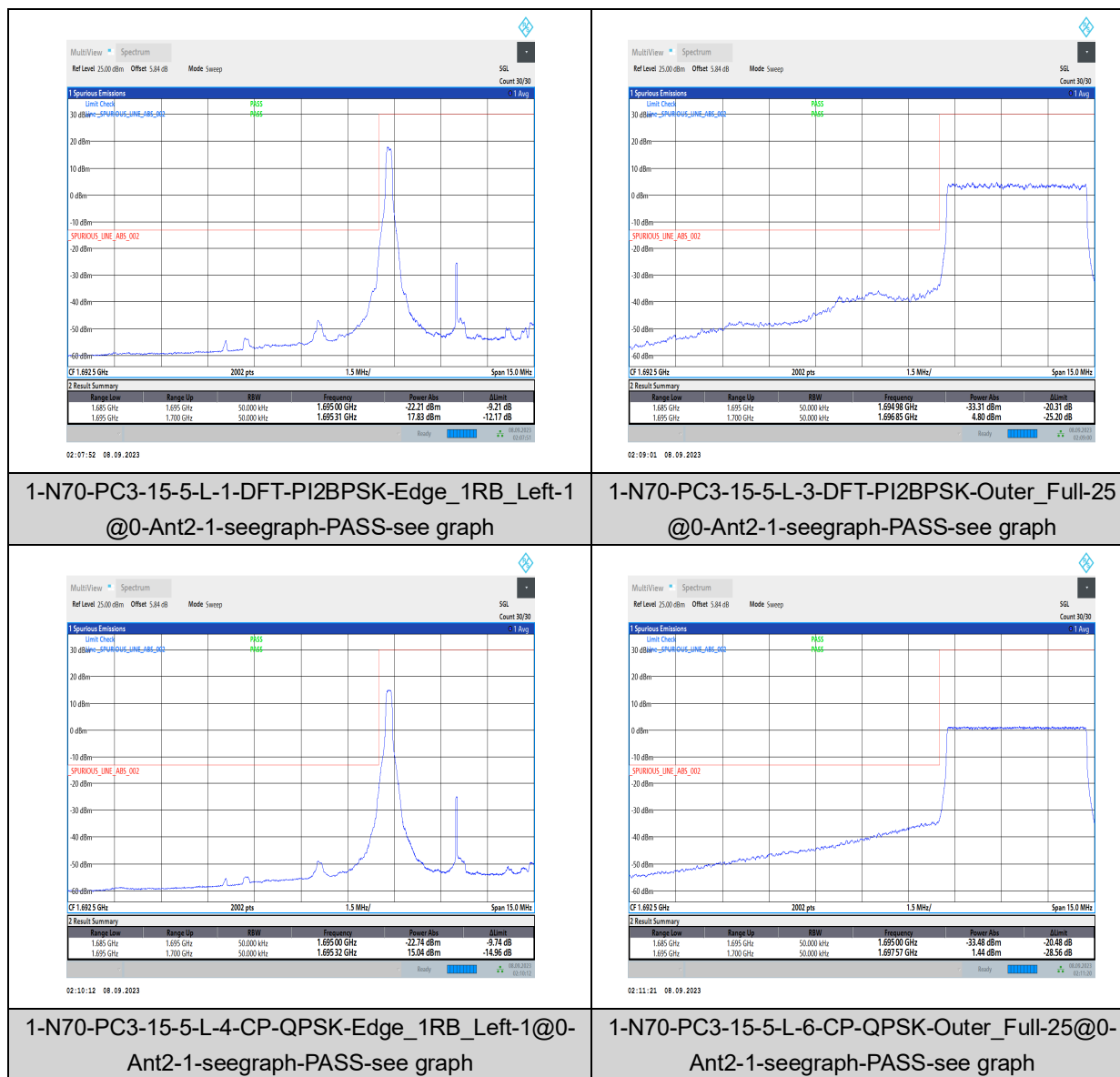
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Page: 15 of 32

### Band Edge for SA

### Test Graphs



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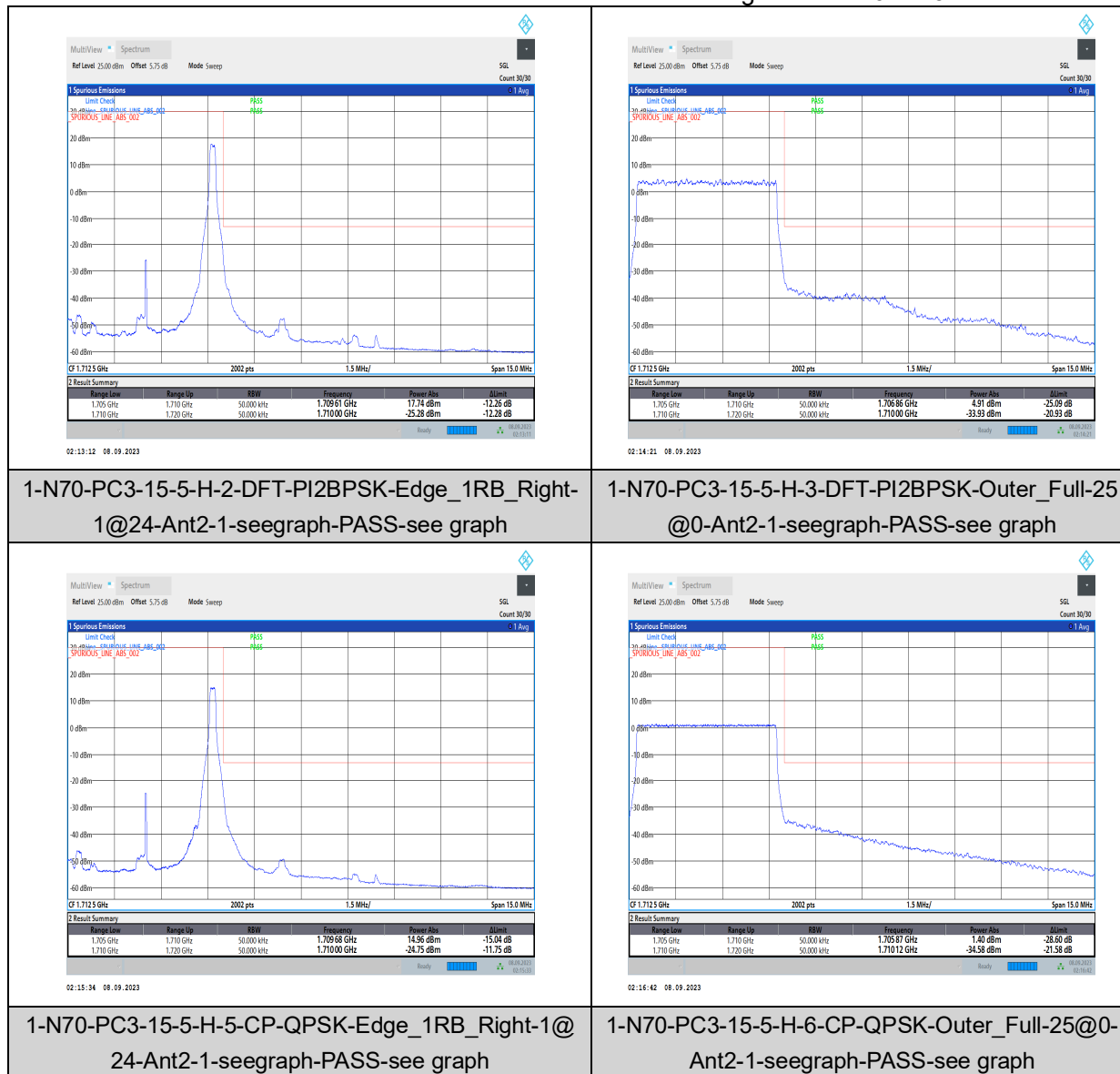
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Page: 16 of 32



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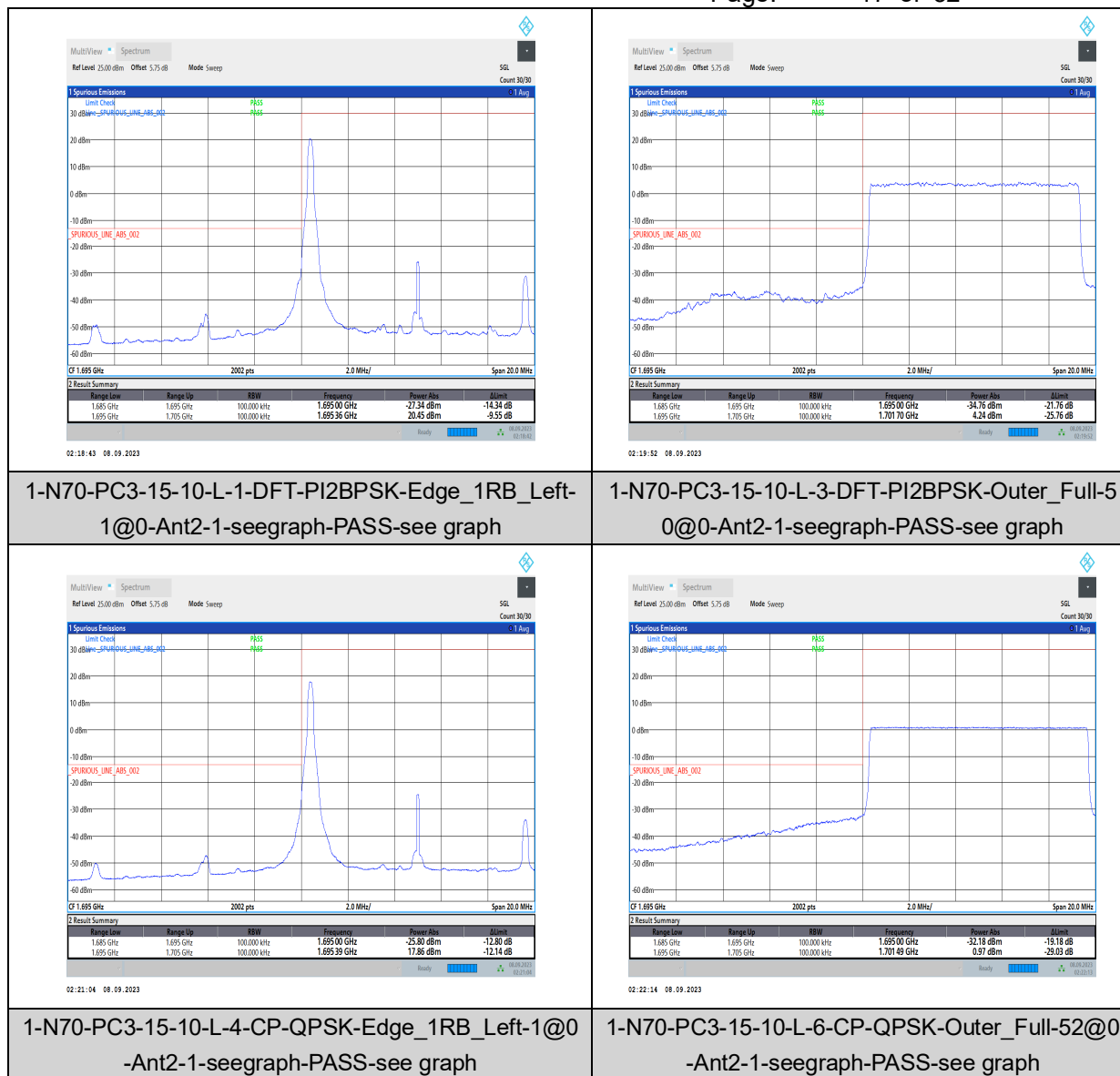
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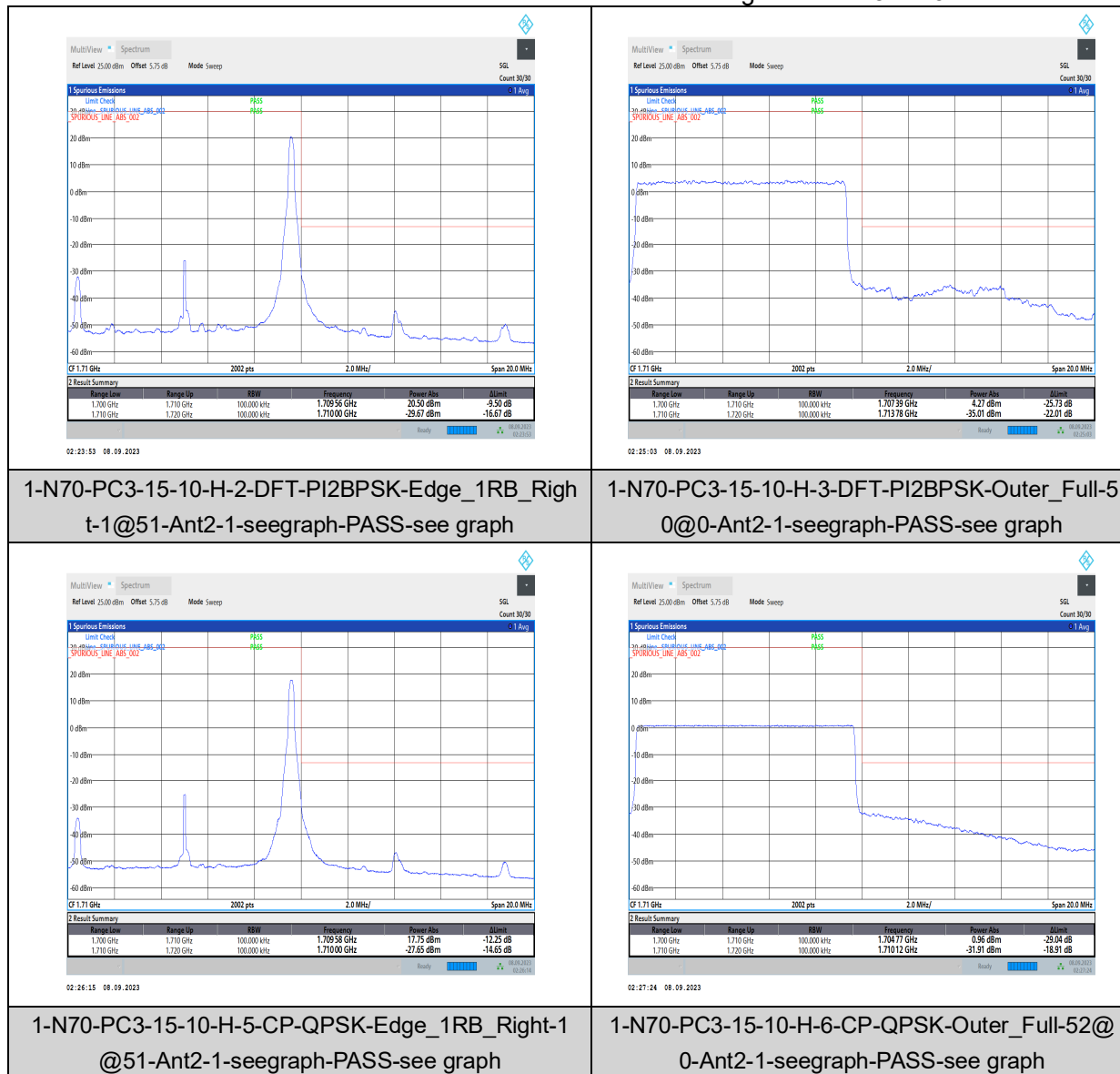
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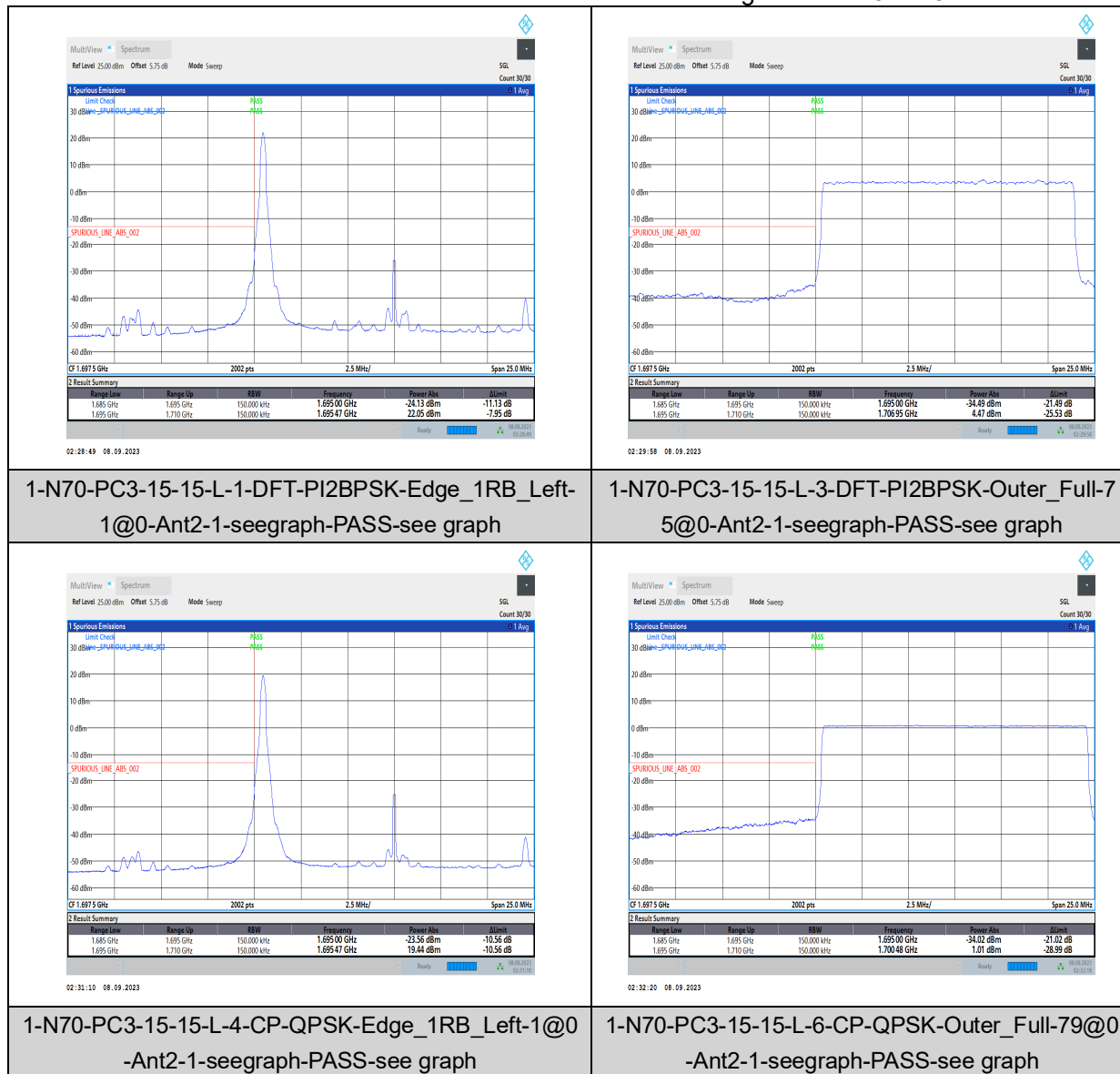
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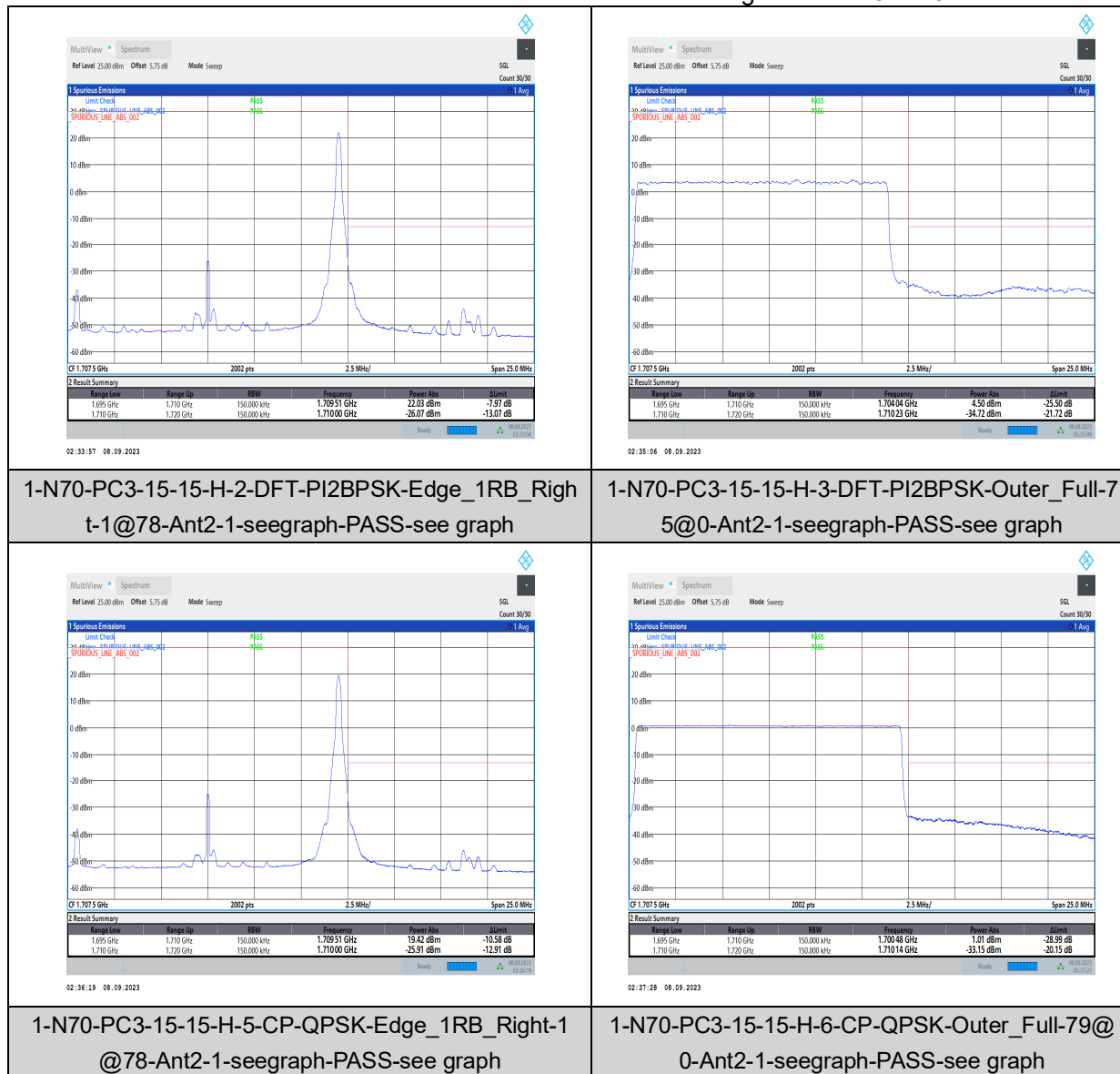
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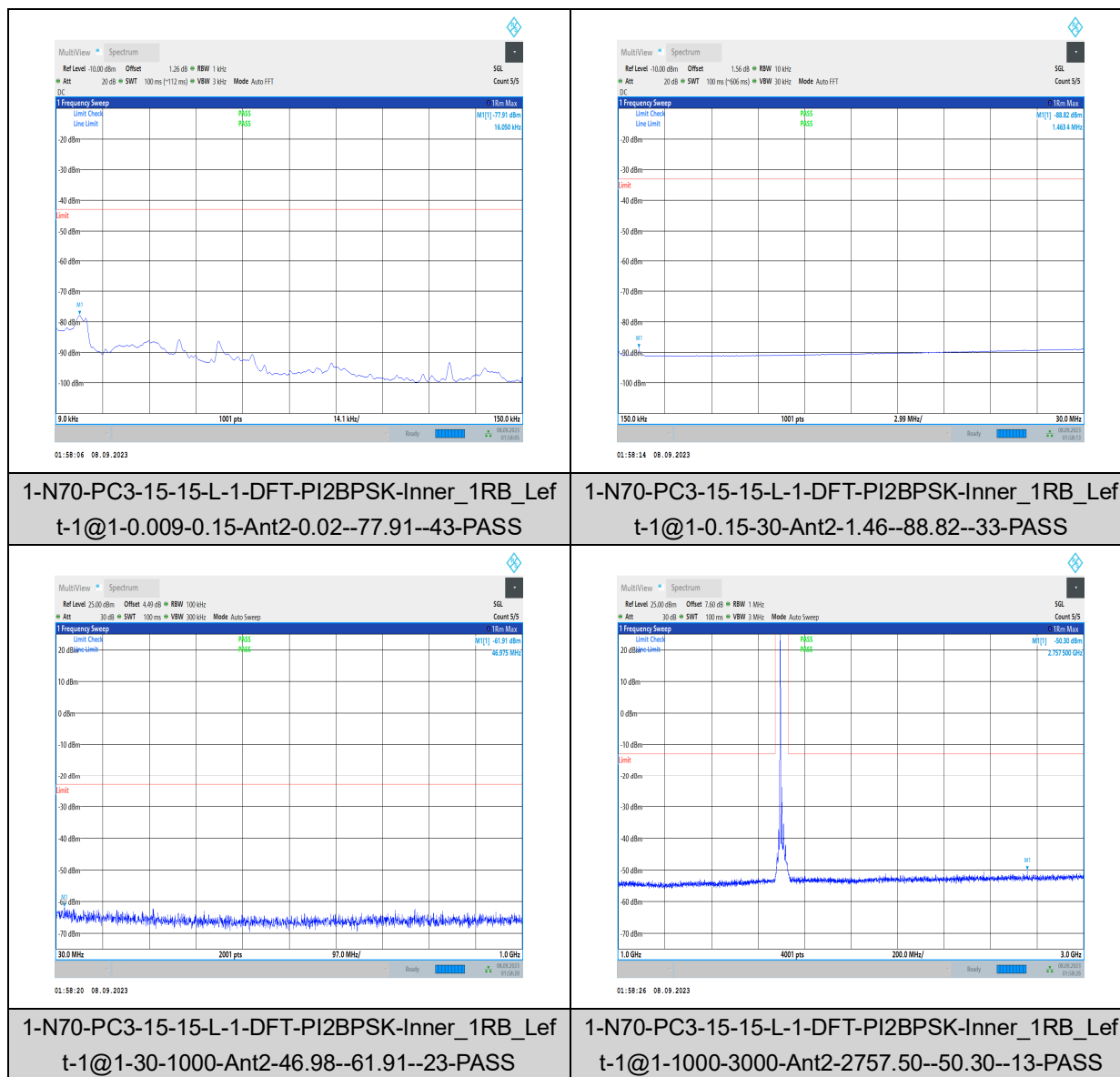
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### Conducted Spurious Emission for SA

#### Test Graphs



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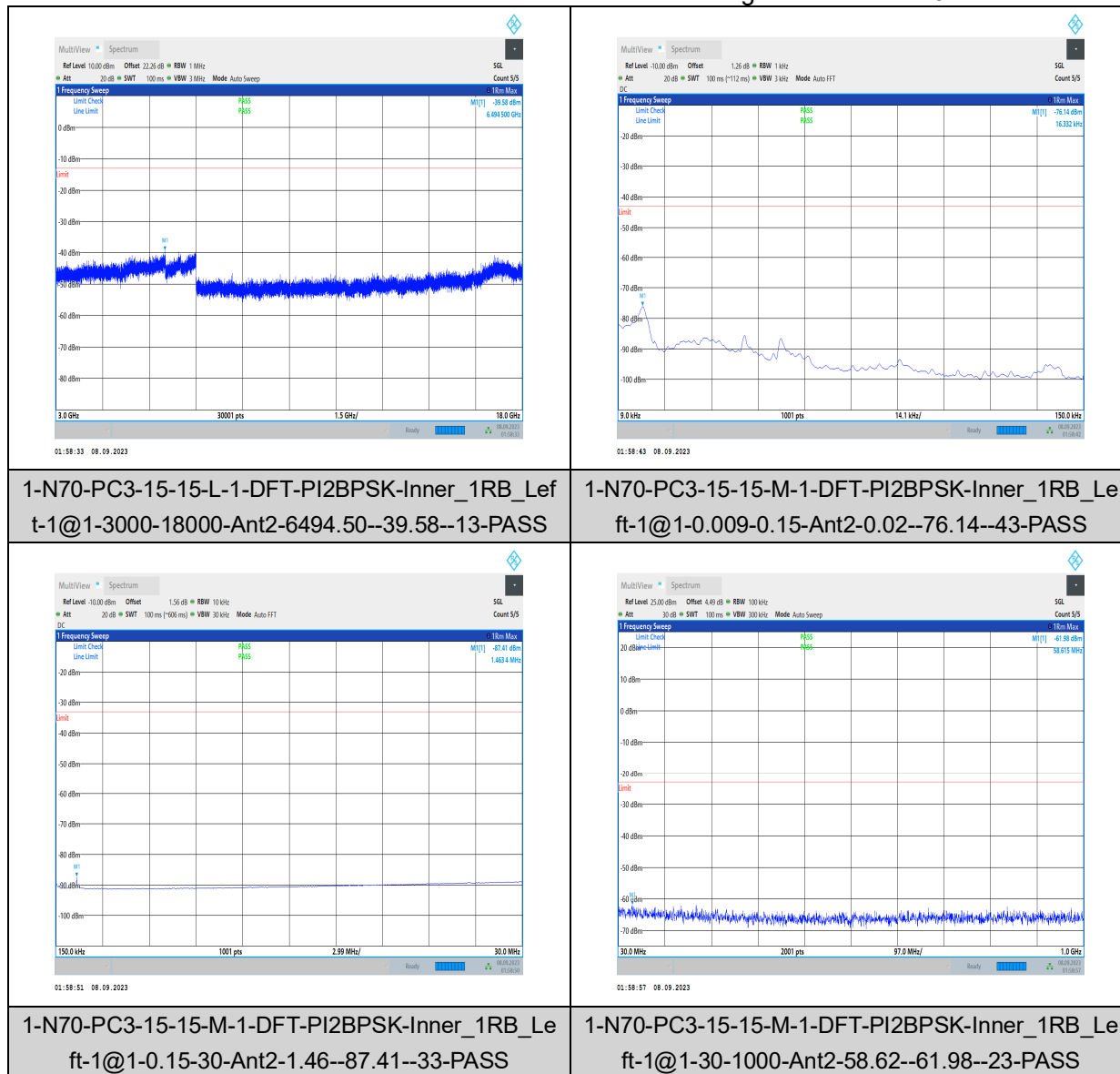
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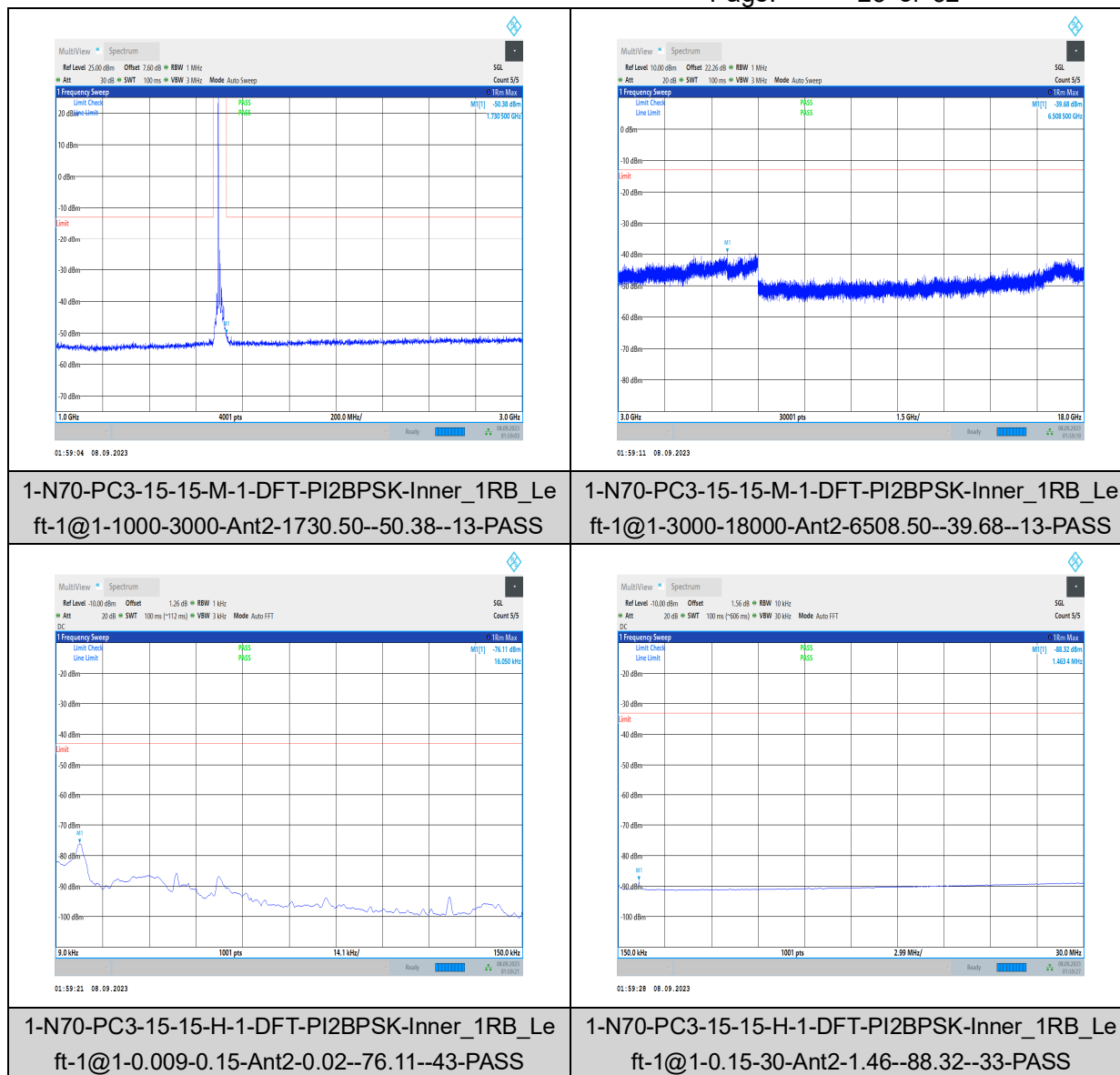
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Rev.: 01

Page: 23 of 32



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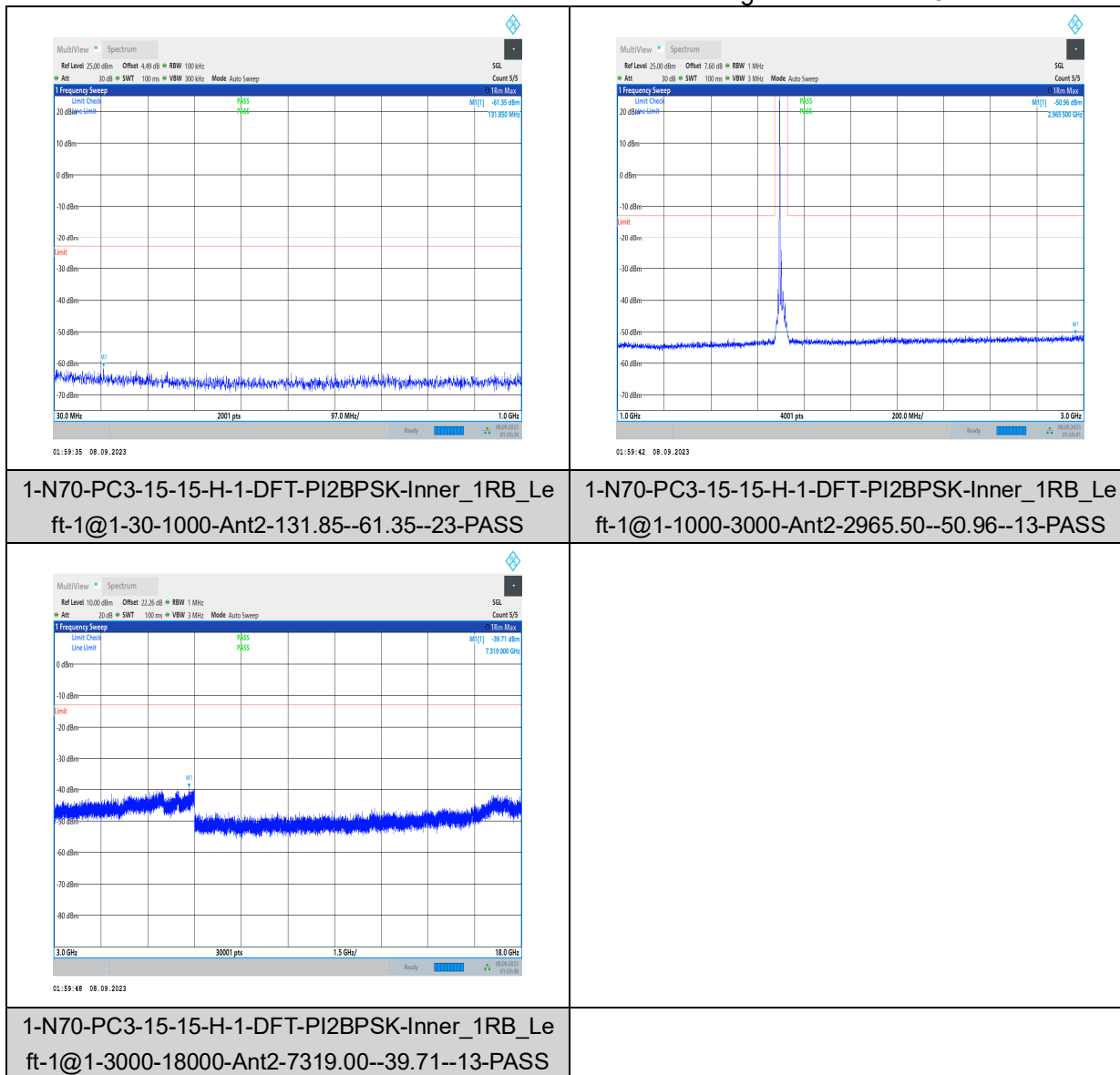
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Report No.: SEWM2308000314RG02

Rev.: 01

Page: 24 of 32



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Report No.: SEWM2308000314RG02  
 Rev.: 01  
 Page: 25 of 32

## Field Strength of Spurious Radiation

Test Band = SA Band 70\_15MHz\_ TM1

Test Channel = Low

| Final Data List |                    |                   |                |          |                |                |                |            |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1               | 3391.18            | 44.16             | -48.38         | 28.66    | -70.82         | -13.00         | 57.82          | Horizontal |
| 2               | 5086.77            | 43.19             | -47.84         | 31.71    | -68.20         | -13.00         | 55.20          | Horizontal |
| 3               | 6782.36            | 43.23             | -46.83         | 35.12    | -63.74         | -13.00         | 50.74          | Horizontal |
| 4               | 8477.95            | 41.18             | -44.24         | 36.87    | -61.45         | -13.00         | 48.45          | Horizontal |
| 5               | 10173.54           | 38.97             | -42.07         | 38.66    | -59.70         | -13.00         | 46.70          | Horizontal |
| 6               | 11869.13           | 37.25             | -39.95         | 39.23    | -58.74         | -13.00         | 45.74          | Horizontal |

| Final Data List |                    |                   |                |          |                |                |                |          |
|-----------------|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|
| NO.             | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1               | 3391.18            | 44.32             | -48.38         | 28.66    | -70.66         | -13.00         | 57.66          | Vertical |
| 2               | 5086.77            | 43.57             | -47.84         | 31.71    | -67.82         | -13.00         | 54.82          | Vertical |
| 3               | 6782.36            | 43.13             | -46.83         | 35.12    | -63.84         | -13.00         | 50.84          | Vertical |
| 4               | 8477.95            | 41.30             | -44.24         | 36.87    | -61.33         | -13.00         | 48.33          | Vertical |
| 5               | 10173.54           | 38.76             | -42.07         | 38.66    | -59.91         | -13.00         | 46.91          | Vertical |
| 6               | 11869.13           | 37.25             | -39.95         | 39.23    | -58.74         | -13.00         | 45.74          | Vertical |



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Report No.: SEWM2308000314RG02  
 Rev.: 01  
 Page: 26 of 32

**Test Band = SA Band 70\_15MHz\_TM1**  
**Test Channel = Mid**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 3396.18         | 44.78          | -48.40      | 28.66    | -70.22      | -13.00      | 57.22       | Horizontal |
| 2               | 5094.27         | 43.30          | -47.83      | 31.73    | -68.06      | -13.00      | 55.06       | Horizontal |
| 3               | 6792.36         | 43.58          | -46.87      | 35.14    | -63.40      | -13.00      | 50.40       | Horizontal |
| 4               | 8490.45         | 40.95          | -44.26      | 36.89    | -61.69      | -13.00      | 48.69       | Horizontal |
| 5               | 10188.54        | 38.48          | -42.11      | 38.67    | -60.22      | -13.00      | 47.22       | Horizontal |
| 6               | 11886.63        | 37.00          | -39.97      | 39.22    | -59.01      | -13.00      | 46.01       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 3396.18         | 44.27          | -48.40      | 28.66    | -70.73      | -13.00      | 57.73       | Vertical |
| 2               | 5094.27         | 43.80          | -47.83      | 31.73    | -67.56      | -13.00      | 54.56       | Vertical |
| 3               | 6792.36         | 43.74          | -46.87      | 35.14    | -63.24      | -13.00      | 50.24       | Vertical |
| 4               | 8490.45         | 41.10          | -44.26      | 36.89    | -61.54      | -13.00      | 48.54       | Vertical |
| 5               | 10188.54        | 38.84          | -42.11      | 38.67    | -59.86      | -13.00      | 46.86       | Vertical |
| 6               | 11886.63        | 37.59          | -39.97      | 39.22    | -58.42      | -13.00      | 45.42       | Vertical |



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Report No.: SEWM2308000314RG02  
 Rev.: 01  
 Page: 27 of 32

**Test Band = SA Band 70\_15MHz\_ TM1**

**Test Channel = High**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 3401.18         | 44.14          | -48.41      | 28.66    | -70.87      | -13.00      | 57.87       | Horizontal |
| 2               | 5101.77         | 43.39          | -47.82      | 31.75    | -67.95      | -13.00      | 54.95       | Horizontal |
| 3               | 6802.36         | 43.33          | -46.89      | 35.17    | -63.65      | -13.00      | 50.65       | Horizontal |
| 4               | 8502.95         | 41.40          | -44.27      | 36.90    | -61.22      | -13.00      | 48.22       | Horizontal |
| 5               | 10203.54        | 38.73          | -42.10      | 38.68    | -59.95      | -13.00      | 46.95       | Horizontal |
| 6               | 11904.13        | 37.13          | -39.96      | 39.22    | -58.87      | -13.00      | 45.87       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 3401.18         | 44.17          | -48.41      | 28.66    | -70.84      | -13.00      | 57.84       | Vertical |
| 2               | 5101.77         | 43.19          | -47.82      | 31.75    | -68.15      | -13.00      | 55.15       | Vertical |
| 3               | 6802.36         | 43.86          | -46.89      | 35.17    | -63.12      | -13.00      | 50.12       | Vertical |
| 4               | 8502.95         | 41.04          | -44.27      | 36.90    | -61.58      | -13.00      | 48.58       | Vertical |
| 5               | 10203.54        | 38.80          | -42.10      | 38.68    | -59.88      | -13.00      | 46.88       | Vertical |
| 6               | 11904.13        | 37.31          | -39.96      | 39.22    | -58.69      | -13.00      | 45.69       | Vertical |



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Report No.: SEWM2308000314RG02  
 Rev.: 01  
 Page: 28 of 32

**Test Band = NR CA n26A-n70A\_ TM1**

**Test Channel = Low**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 3391.18         | 44.39          | -48.38      | 28.66    | -70.59      | -13.00      | 57.59       | Horizontal |
| 2               | 5086.77         | 43.44          | -47.84      | 31.71    | -67.95      | -13.00      | 54.95       | Horizontal |
| 3               | 6782.36         | 43.06          | -46.83      | 35.12    | -63.91      | -13.00      | 50.91       | Horizontal |
| 4               | 8477.95         | 40.82          | -44.24      | 36.87    | -61.81      | -13.00      | 48.81       | Horizontal |
| 5               | 10173.54        | 38.53          | -42.07      | 38.66    | -60.14      | -13.00      | 47.14       | Horizontal |
| 6               | 11869.13        | 37.17          | -39.95      | 39.23    | -58.82      | -13.00      | 45.82       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 3391.18         | 44.70          | -48.38      | 28.66    | -70.28      | -13.00      | 57.28       | Vertical |
| 2               | 5086.77         | 43.21          | -47.84      | 31.71    | -68.18      | -13.00      | 55.18       | Vertical |
| 3               | 6782.36         | 43.02          | -46.83      | 35.12    | -63.95      | -13.00      | 50.95       | Vertical |
| 4               | 8477.95         | 40.52          | -44.24      | 36.87    | -62.11      | -13.00      | 49.11       | Vertical |
| 5               | 10173.54        | 38.90          | -42.07      | 38.66    | -59.77      | -13.00      | 46.77       | Vertical |
| 6               | 11869.13        | 37.19          | -39.95      | 39.23    | -58.80      | -13.00      | 45.80       | Vertical |



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Report No.: SEWM2308000314RG02  
 Rev.: 01  
 Page: 29 of 32

**Test Band = NR CA n26A-n70A\_ TM1**

**Test Channel = Mid**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 3396.18         | 44.38          | -48.40      | 28.66    | -70.62      | -13.00      | 57.62       | Horizontal |
| 2               | 5094.27         | 43.58          | -47.83      | 31.73    | -67.78      | -13.00      | 54.78       | Horizontal |
| 3               | 6792.36         | 43.46          | -46.87      | 35.14    | -63.52      | -13.00      | 50.52       | Horizontal |
| 4               | 8490.45         | 41.38          | -44.26      | 36.89    | -61.26      | -13.00      | 48.26       | Horizontal |
| 5               | 10188.54        | 39.08          | -42.11      | 38.67    | -59.62      | -13.00      | 46.62       | Horizontal |
| 6               | 11886.63        | 37.07          | -39.97      | 39.22    | -58.94      | -13.00      | 45.94       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 3396.18         | 44.75          | -48.40      | 28.66    | -70.25      | -13.00      | 57.25       | Vertical |
| 2               | 5094.27         | 43.89          | -47.83      | 31.73    | -67.47      | -13.00      | 54.47       | Vertical |
| 3               | 6792.36         | 43.17          | -46.87      | 35.14    | -63.81      | -13.00      | 50.81       | Vertical |
| 4               | 8490.45         | 40.94          | -44.26      | 36.89    | -61.70      | -13.00      | 48.70       | Vertical |
| 5               | 10188.54        | 38.38          | -42.11      | 38.67    | -60.32      | -13.00      | 47.32       | Vertical |
| 6               | 11886.63        | 36.98          | -39.97      | 39.22    | -59.03      | -13.00      | 46.03       | Vertical |



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Report No.: SEWM2308000314RG02  
 Rev.: 01  
 Page: 30 of 32

**Test Band = NR CA n26A-n70A\_ TM1**

**Test Channel = High**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 3401.18         | 44.80          | -48.41      | 28.66    | -70.21      | -13.00      | 57.21       | Horizontal |
| 2               | 5101.77         | 43.46          | -47.82      | 31.75    | -67.88      | -13.00      | 54.88       | Horizontal |
| 3               | 6802.36         | 43.25          | -46.89      | 35.17    | -63.73      | -13.00      | 50.73       | Horizontal |
| 4               | 8502.95         | 40.71          | -44.27      | 36.90    | -61.91      | -13.00      | 48.91       | Horizontal |
| 5               | 10203.54        | 38.53          | -42.10      | 38.68    | -60.15      | -13.00      | 47.15       | Horizontal |
| 6               | 11904.13        | 37.22          | -39.96      | 39.22    | -58.78      | -13.00      | 45.78       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 3401.18         | 44.59          | -48.41      | 28.66    | -70.42      | -13.00      | 57.42       | Vertical |
| 2               | 5101.77         | 43.50          | -47.82      | 31.75    | -67.84      | -13.00      | 54.84       | Vertical |
| 3               | 6802.36         | 43.14          | -46.89      | 35.17    | -63.84      | -13.00      | 50.84       | Vertical |
| 4               | 8502.95         | 40.58          | -44.27      | 36.90    | -62.04      | -13.00      | 49.04       | Vertical |
| 5               | 10203.54        | 38.14          | -42.10      | 38.68    | -60.54      | -13.00      | 47.54       | Vertical |
| 6               | 11904.13        | 36.88          | -39.96      | 39.22    | -59.12      | -13.00      | 46.12       | Vertical |

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Report No.: SEWM2308000314RG02  
Rev.: 01  
Page: 31 of 32

## 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 |
| N70     | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | VH      | NT          | 1.300000      | 0.000764        | PASS    |
| N70     | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | VN      | NT          | 2.200000      | 0.001292        | PASS    |
| N70     | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | VL      | NT          | 1.700000      | 0.000999        | PASS    |
| N70     | 15  | 15        | CP-QPSK     | M       | Outer_Full | VH      | NT          | -1.600000     | -0.000940       | PASS    |
| N70     | 15  | 15        | CP-QPSK     | M       | Outer_Full | VN      | NT          | 1.000000      | 0.000587        | PASS    |
| N70     | 15  | 15        | CP-QPSK     | M       | Outer_Full | VL      | NT          | 1.500000      | 0.000881        | PASS    |



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## Frequency Error VS. Temperature

| Temperature |     |           |             |         |            |         |             |               |                 |         |
|-------------|-----|-----------|-------------|---------|------------|---------|-------------|---------------|-----------------|---------|
| Band        | SCS | Bandwidth | Modulation  | Channel | RB Config  | Voltage | Temperature | Deviation(Hz) | Deviation (ppm) | Verdict |
| N70         | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | NV      | -30         | 5.500000      | 0.003231        | PASS    |
| N70         | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | NV      | -20         | 1.600000      | 0.000940        | PASS    |
| N70         | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | NV      | -10         | 0.800000      | 0.000470        | PASS    |
| N70         | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | NV      | 0           | 4.400000      | 0.002584        | PASS    |
| N70         | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | NV      | 10          | 3.800000      | 0.002232        | PASS    |
| N70         | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | NV      | 20          | 3.800000      | 0.002232        | PASS    |
| N70         | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | NV      | 30          | 4.600000      | 0.002702        | PASS    |
| N70         | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | NV      | 40          | 0.200000      | 0.000117        | PASS    |
| N70         | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | NV      | 50          | 5.200000      | 0.003054        | PASS    |
| N70         | 15  | 15        | CP-QPSK     | M       | Outer_Full | NV      | -30         | -1.800000     | -0.001057       | PASS    |
| N70         | 15  | 15        | CP-QPSK     | M       | Outer_Full | NV      | -20         | 1.100000      | 0.000646        | PASS    |
| N70         | 15  | 15        | CP-QPSK     | M       | Outer_Full | NV      | -10         | -2.500000     | -0.001468       | PASS    |
| N70         | 15  | 15        | CP-QPSK     | M       | Outer_Full | NV      | 0           | -1.600000     | -0.000940       | PASS    |
| N70         | 15  | 15        | CP-QPSK     | M       | Outer_Full | NV      | 10          | 1.200000      | 0.000705        | PASS    |
| N70         | 15  | 15        | CP-QPSK     | M       | Outer_Full | NV      | 20          | -0.200000     | -0.000117       | PASS    |
| N70         | 15  | 15        | CP-QPSK     | M       | Outer_Full | NV      | 30          | 1.600000      | 0.000940        | PASS    |
| N70         | 15  | 15        | CP-QPSK     | M       | Outer_Full | NV      | 40          | -0.700000     | -0.000411       | PASS    |
| N70         | 15  | 15        | CP-QPSK     | M       | Outer_Full | NV      | 50          | -0.200000     | -0.000117       | PASS    |

---End of Attachment---



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