

Report No.: SEWM2203000022RG03  
Rev.: 01  
Page: 1 of 42

# Appendix

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Report No.: SEWM2203000022RG03  
 Rev.: 01  
 Page: 2 of 42

## Effective (Isotropic) Radiated Power Output Data

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | ERP(dBm) | Limit(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|----------|------------|---------|
| Band12 | 1.4MHz    | QPSK       | 23017   | 1RB#0            | 24.36       | 21.31    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 1RB#2            | 24.56       | 21.51    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 1RB#5            | 24.51       | 21.46    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 6RB#0            | 23.55       | 20.5     | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 1RB#0            | 24.62       | 21.57    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 1RB#2            | 24.78       | 21.73    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 1RB#5            | 24.64       | 21.59    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 6RB#0            | 23.73       | 20.68    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 1RB#0            | 24.62       | 21.57    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 1RB#2            | 24.78       | 21.73    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 1RB#5            | 24.65       | 21.6     | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 6RB#0            | 23.76       | 20.71    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 1RB#0            | 23.54       | 20.49    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 1RB#2            | 23.77       | 20.72    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 1RB#5            | 23.84       | 20.79    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 6RB#0            | 22.63       | 19.58    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 1RB#0            | 23.83       | 20.78    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 1RB#2            | 24.1        | 21.05    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 1RB#5            | 23.8        | 20.75    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 6RB#0            | 22.8        | 19.75    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 1RB#0            | 23.88       | 20.83    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 1RB#2            | 24.07       | 21.02    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 1RB#5            | 23.92       | 20.87    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 6RB#0            | 22.85       | 19.8     | 34.77      | PASS    |
| Band12 | 3MHz      | QPSK       | 23025   | 1RB#0            | 24.44       | 21.39    | 34.77      | PASS    |

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Report No.: SEWM2203000022RG03

Rev.: 01

Page: 3 of 42

|        |      |       |       |        |       |       |       |      |
|--------|------|-------|-------|--------|-------|-------|-------|------|
| Band12 | 3MHz | QPSK  | 23025 | 1RB#8  | 24.62 | 21.57 | 34.77 | PASS |
| Band12 | 3MHz | QPSK  | 23025 | 1RB#14 | 24.66 | 21.61 | 34.77 | PASS |
| Band12 | 3MHz | QPSK  | 23025 | 15RB#0 | 23.64 | 20.59 | 34.77 | PASS |
| Band12 | 3MHz | QPSK  | 23095 | 1RB#0  | 24.72 | 21.67 | 34.77 | PASS |
| Band12 | 3MHz | QPSK  | 23095 | 1RB#8  | 24.71 | 21.66 | 34.77 | PASS |
| Band12 | 3MHz | QPSK  | 23095 | 1RB#14 | 24.69 | 21.64 | 34.77 | PASS |
| Band12 | 3MHz | QPSK  | 23095 | 15RB#0 | 23.72 | 20.67 | 34.77 | PASS |
| Band12 | 3MHz | QPSK  | 23165 | 1RB#0  | 24.68 | 21.63 | 34.77 | PASS |
| Band12 | 3MHz | QPSK  | 23165 | 1RB#8  | 24.68 | 21.63 | 34.77 | PASS |
| Band12 | 3MHz | QPSK  | 23165 | 1RB#14 | 24.64 | 21.59 | 34.77 | PASS |
| Band12 | 3MHz | QPSK  | 23165 | 15RB#0 | 23.72 | 20.67 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 1RB#0  | 23.62 | 20.57 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 1RB#8  | 23.8  | 20.75 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 1RB#14 | 23.81 | 20.76 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23025 | 15RB#0 | 22.64 | 19.59 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 1RB#0  | 23.95 | 20.9  | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 1RB#8  | 23.9  | 20.85 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 1RB#14 | 23.87 | 20.82 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 15RB#0 | 22.7  | 19.65 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 1RB#0  | 23.86 | 20.81 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 1RB#8  | 24    | 20.95 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 1RB#14 | 23.83 | 20.78 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 15RB#0 | 22.71 | 19.66 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 1RB#0  | 24.35 | 21.3  | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 1RB#12 | 24.81 | 21.76 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 1RB#24 | 24.58 | 21.53 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 25RB#0 | 23.67 | 20.62 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 1RB#0  | 24.63 | 21.58 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 1RB#12 | 24.85 | 21.8  | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 1RB#24 | 24.55 | 21.5  | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 25RB#0 | 23.7  | 20.65 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23155 | 1RB#0  | 24.61 | 21.56 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23155 | 1RB#12 | 24.87 | 21.82 | 34.77 | PASS |

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Report No.: SEWM2203000022RG03

Rev.: 01

Page: 4 of 42

|        |       |       |       |        |       |       |       |      |
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| Band12 | 5MHz  | QPSK  | 23155 | 1RB#24 | 24.56 | 21.51 | 34.77 | PASS |
| Band12 | 5MHz  | QPSK  | 23155 | 25RB#0 | 23.74 | 20.69 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23035 | 1RB#0  | 23.6  | 20.55 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23035 | 1RB#12 | 24.01 | 20.96 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23035 | 1RB#24 | 23.7  | 20.65 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23035 | 25RB#0 | 22.67 | 19.62 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23095 | 1RB#0  | 23.79 | 20.74 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23095 | 1RB#12 | 24.18 | 21.13 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23095 | 1RB#24 | 23.82 | 20.77 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23095 | 25RB#0 | 22.71 | 19.66 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23155 | 1RB#0  | 23.9  | 20.85 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23155 | 1RB#12 | 24.1  | 21.05 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23155 | 1RB#24 | 23.89 | 20.84 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23155 | 25RB#0 | 22.73 | 19.68 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 1RB#0  | 24.52 | 21.47 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 1RB#24 | 24.82 | 21.77 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 1RB#49 | 24.65 | 21.6  | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 50RB#0 | 23.74 | 20.69 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 1RB#0  | 24.66 | 21.61 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 1RB#24 | 24.84 | 21.79 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 1RB#49 | 24.66 | 21.61 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 50RB#0 | 23.78 | 20.73 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 1RB#0  | 24.71 | 21.66 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 1RB#24 | 24.81 | 21.76 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 1RB#49 | 24.66 | 21.61 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 50RB#0 | 23.78 | 20.73 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#0  | 23.85 | 20.8  | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#24 | 24.08 | 21.03 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#49 | 23.92 | 20.87 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 50RB#0 | 22.76 | 19.71 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#0  | 23.9  | 20.85 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#24 | 24.08 | 21.03 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#49 | 23.84 | 20.79 | 34.77 | PASS |

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Report No.: SEWM2203000022RG03

Rev.: 01

Page: 5 of 42

|        |       |       |       |        |       |       |       |      |
|--------|-------|-------|-------|--------|-------|-------|-------|------|
| Band12 | 10MHz | 16QAM | 23095 | 50RB#0 | 22.77 | 19.72 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 1RB#0  | 24    | 20.95 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 1RB#24 | 24.06 | 21.01 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 1RB#49 | 23.95 | 20.9  | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 50RB#0 | 22.77 | 19.72 | 34.77 | PASS |

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Report No.: SEWM2203000022RG03  
 Rev.: 01  
 Page: 6 of 42

## Peak-to-Average Ratio(CCDF)

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band12 | 10MHz     | QPSK       | 23060   | 50RB#0           | 5.40       | 13        | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0           | 5.42       | 13        | PASS    |
| Band12 | 10MHz     | QPSK       | 23130   | 50RB#0           | 5.42       | 13        | PASS    |
| Band12 | 10MHz     | 16QAM      | 23060   | 50RB#0           | 6.18       | 13        | PASS    |
| Band12 | 10MHz     | 16QAM      | 23095   | 50RB#0           | 6.20       | 13        | PASS    |
| Band12 | 10MHz     | 16QAM      | 23130   | 50RB#0           | 6.18       | 13        | PASS    |

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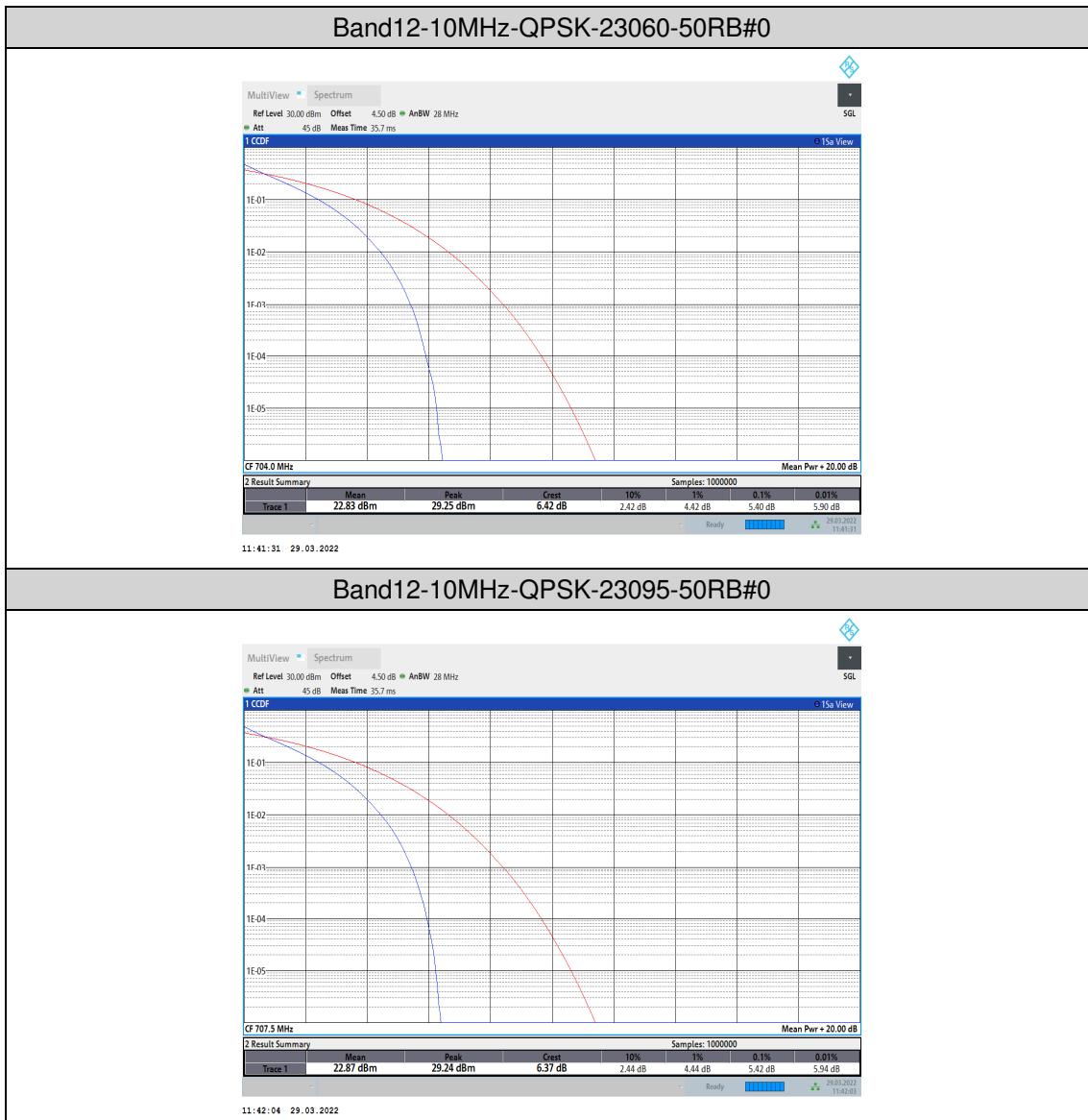


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 Rev.: 01  
 Page: 7 of 42

## Test Graphs



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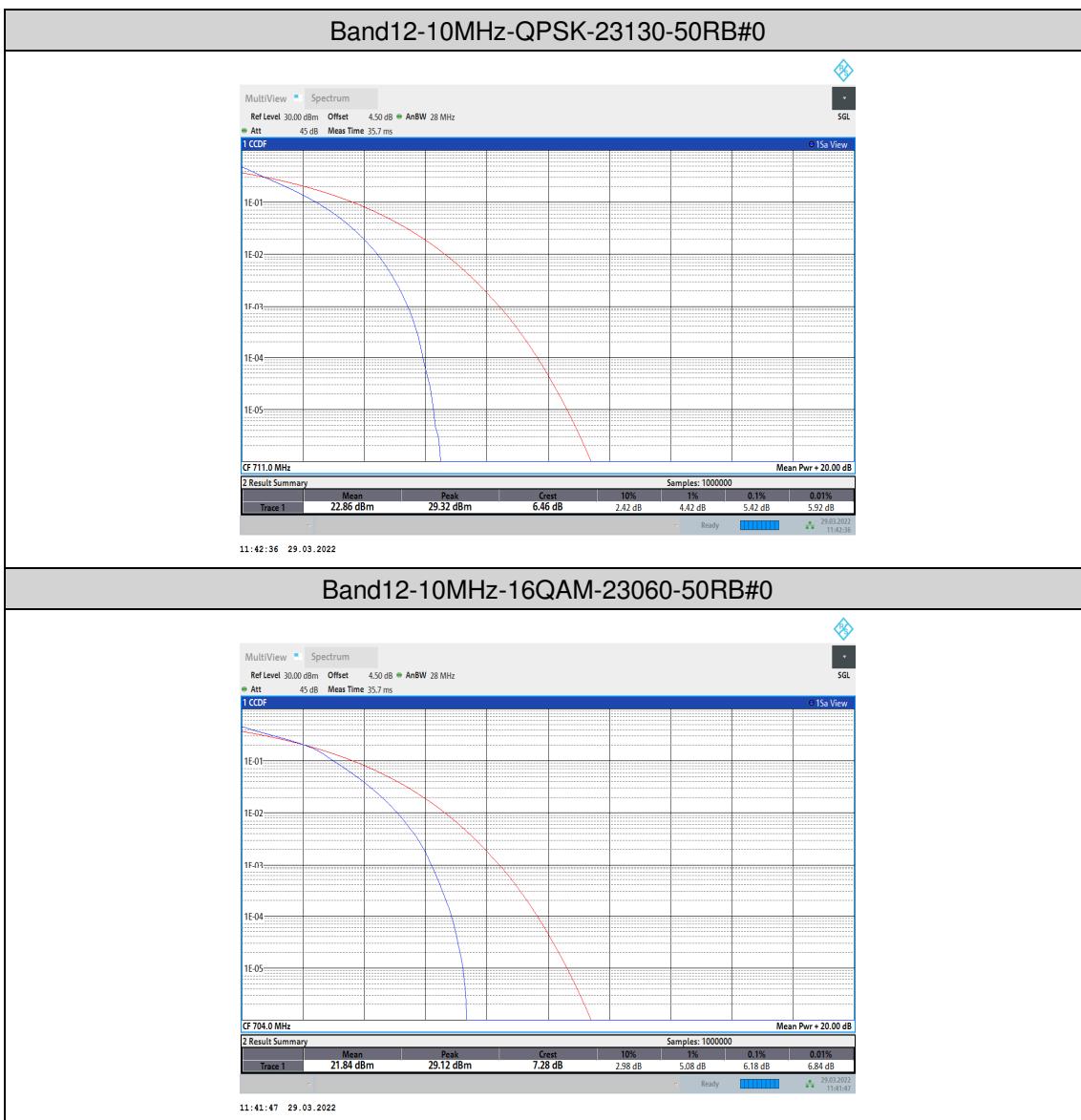
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Report No.: SEWM2203000022RG03  
Rev.: 01  
Page: 8 of 42



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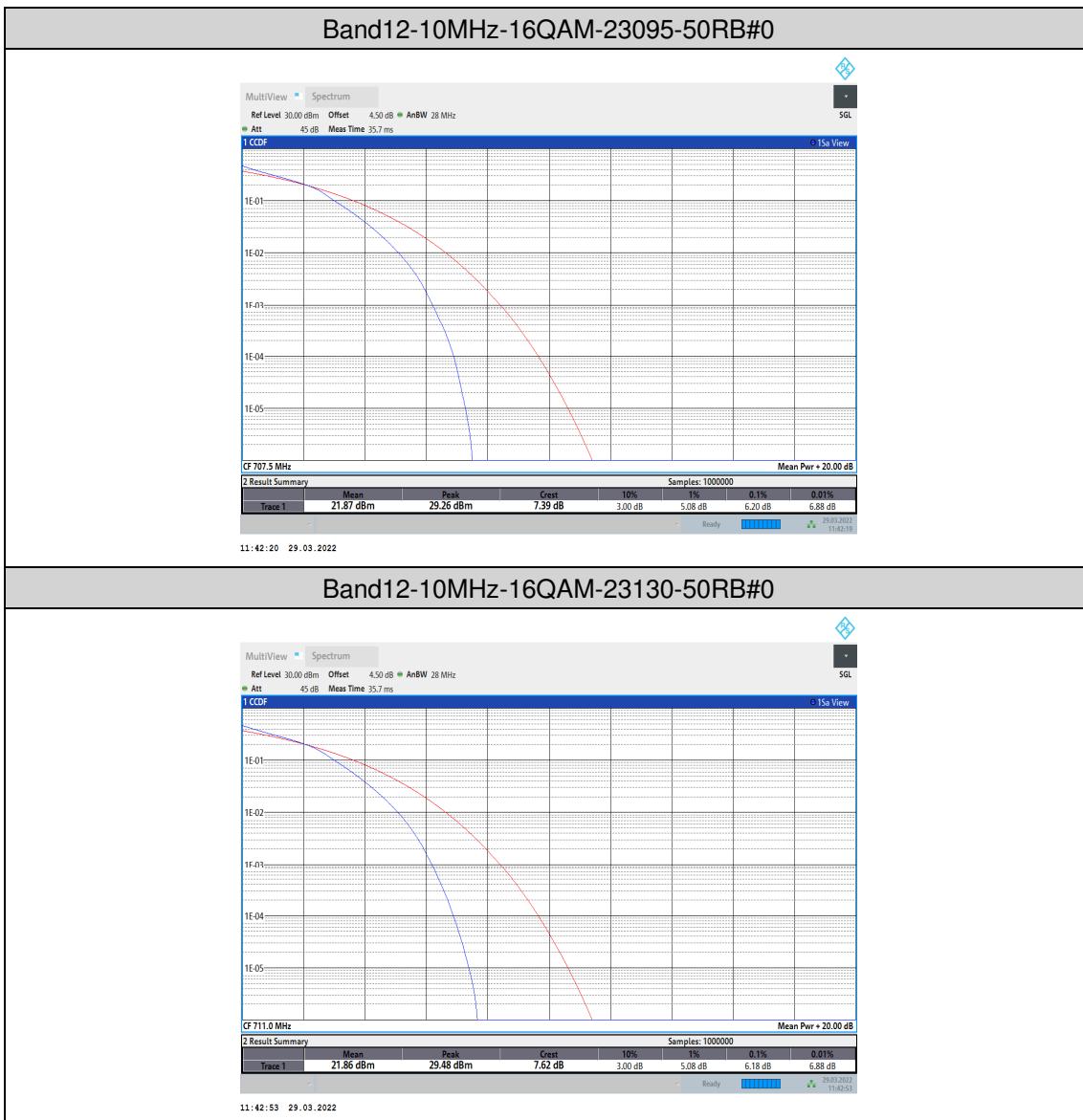
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Report No.: SEWM2203000022RG03  
 Rev.: 01  
 Page: 9 of 42



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Report No.: SEWM2203000022RG03  
 Rev.: 01  
 Page: 10 of 42

## Modulation Characteristics

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result | Verdict |
|--------|-----------|------------|---------|------------------|--------|---------|
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0           | PASS   | PASS    |
| Band12 | 10MHz     | 16QAM      | 23095   | 50RB#0           | PASS   | PASS    |

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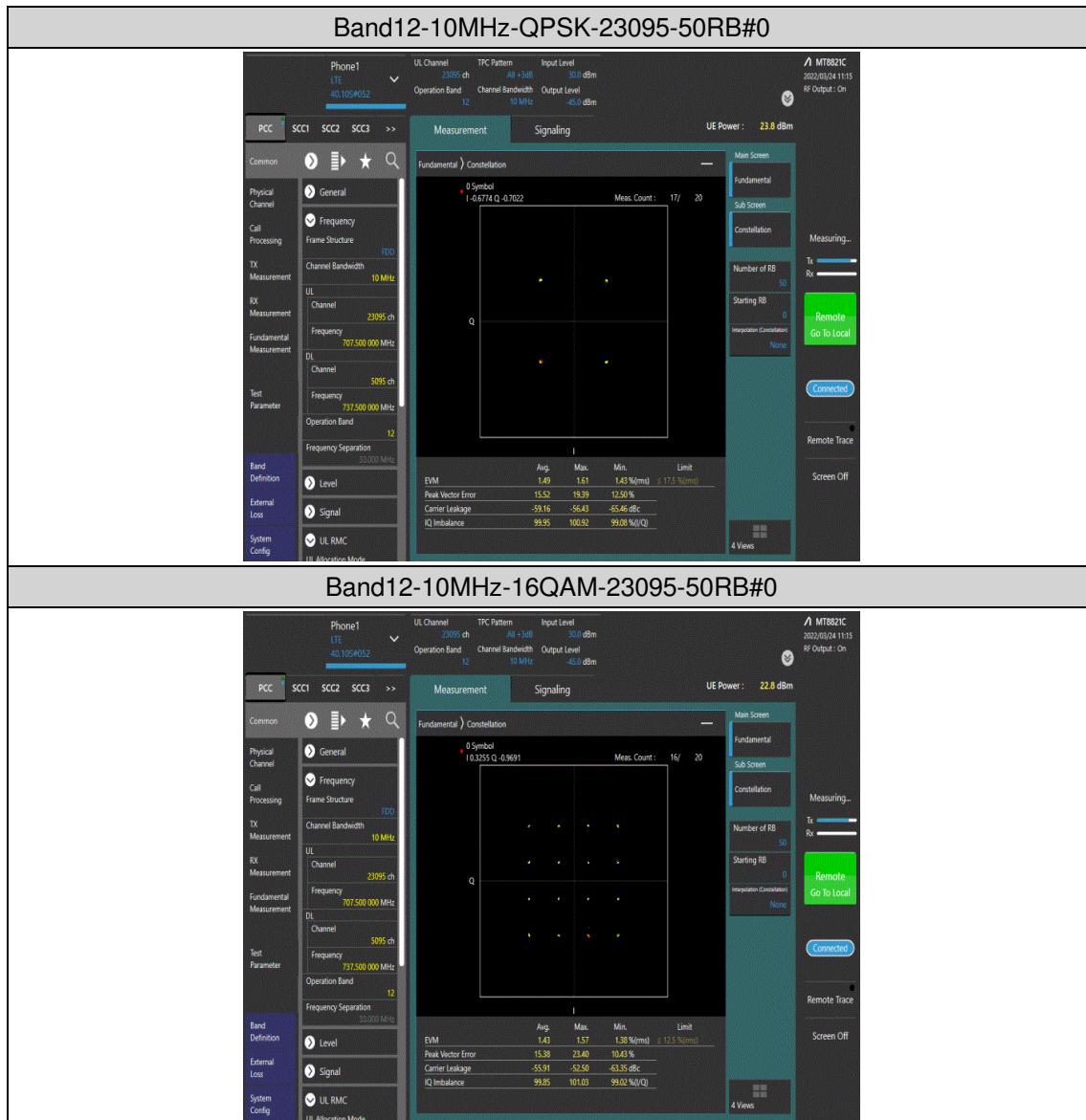


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Rev.: 01  
Page: 11 of 42

## Test Graphs



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Report No.: SEWM2203000022RG03  
 Rev.: 01  
 Page: 12 of 42

## 26dB Bandwidth and Occupied Bandwidth

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band12 | 1.4MHz    | QPSK       | 23017   | 6RB#0            | 1.085                    | 1.28                 | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 6RB#0            | 1.085                    | 1.28                 | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 6RB#0            | 1.086                    | 1.29                 | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 6RB#0            | 1.096                    | 1.31                 | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 6RB#0            | 1.096                    | 1.31                 | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 6RB#0            | 1.097                    | 1.31                 | PASS    |
| Band12 | 3MHz      | QPSK       | 23025   | 15RB#0           | 2.681                    | 2.89                 | PASS    |
| Band12 | 3MHz      | QPSK       | 23095   | 15RB#0           | 2.688                    | 2.90                 | PASS    |
| Band12 | 3MHz      | QPSK       | 23165   | 15RB#0           | 2.685                    | 2.91                 | PASS    |
| Band12 | 3MHz      | 16QAM      | 23025   | 15RB#0           | 2.68                     | 2.91                 | PASS    |
| Band12 | 3MHz      | 16QAM      | 23095   | 15RB#0           | 2.676                    | 2.92                 | PASS    |
| Band12 | 3MHz      | 16QAM      | 23165   | 15RB#0           | 2.679                    | 2.91                 | PASS    |
| Band12 | 5MHz      | QPSK       | 23035   | 25RB#0           | 4.472                    | 5.01                 | PASS    |
| Band12 | 5MHz      | QPSK       | 23095   | 25RB#0           | 4.475                    | 5.02                 | PASS    |
| Band12 | 5MHz      | QPSK       | 23155   | 25RB#0           | 4.475                    | 5.04                 | PASS    |
| Band12 | 5MHz      | 16QAM      | 23035   | 25RB#0           | 4.465                    | 5.01                 | PASS    |
| Band12 | 5MHz      | 16QAM      | 23095   | 25RB#0           | 4.473                    | 5.04                 | PASS    |
| Band12 | 5MHz      | 16QAM      | 23155   | 25RB#0           | 4.468                    | 5.05                 | PASS    |
| Band12 | 10MHz     | QPSK       | 23060   | 50RB#0           | 8.929                    | 9.86                 | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0           | 8.942                    | 9.86                 | PASS    |
| Band12 | 10MHz     | QPSK       | 23130   | 50RB#0           | 8.937                    | 9.82                 | PASS    |
| Band12 | 10MHz     | 16QAM      | 23060   | 50RB#0           | 8.922                    | 9.86                 | PASS    |
| Band12 | 10MHz     | 16QAM      | 23095   | 50RB#0           | 8.923                    | 9.76                 | PASS    |
| Band12 | 10MHz     | 16QAM      | 23130   | 50RB#0           | 8.926                    | 9.76                 | PASS    |

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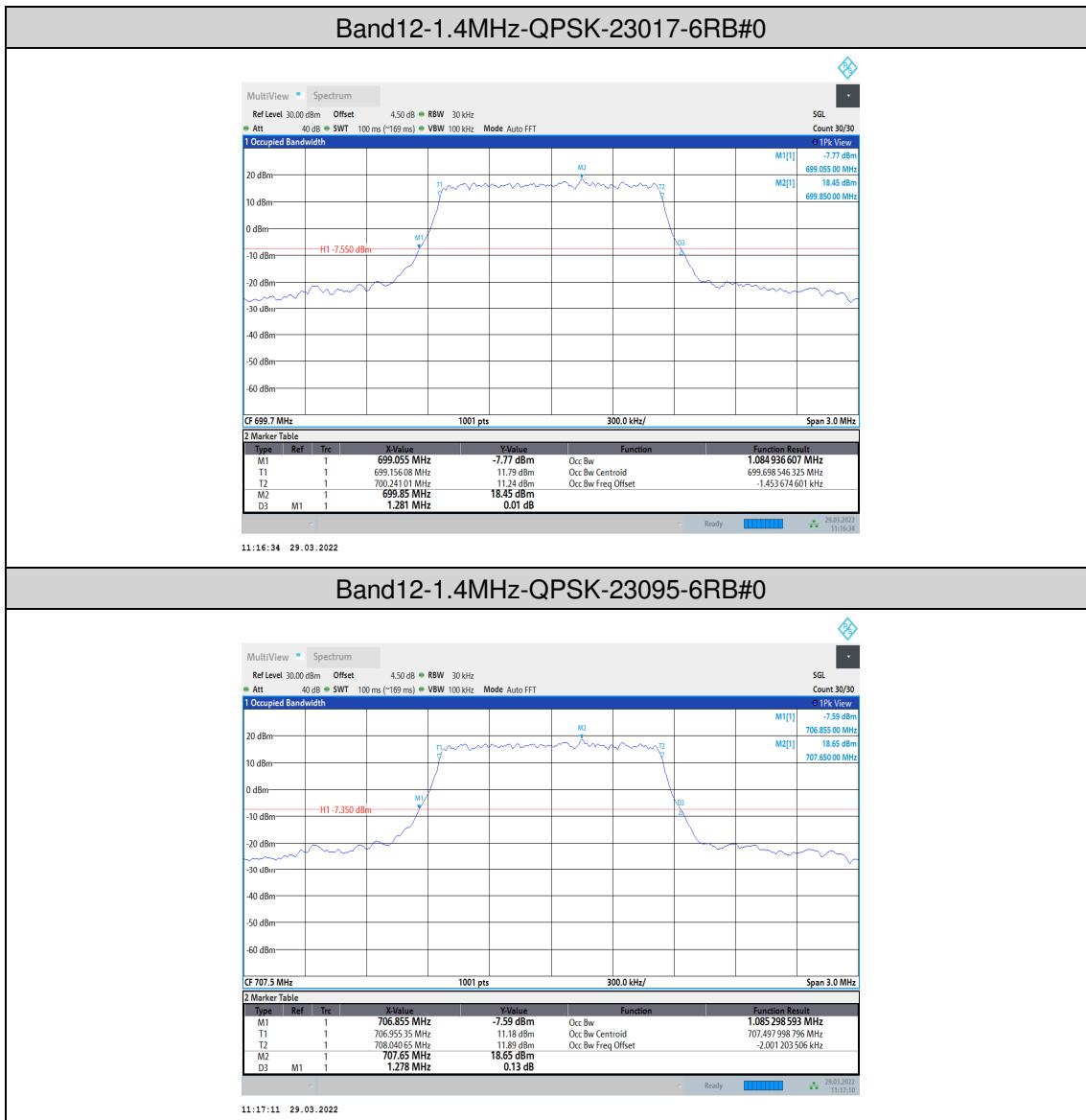


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 Page: 13 of 42

## Test Graphs



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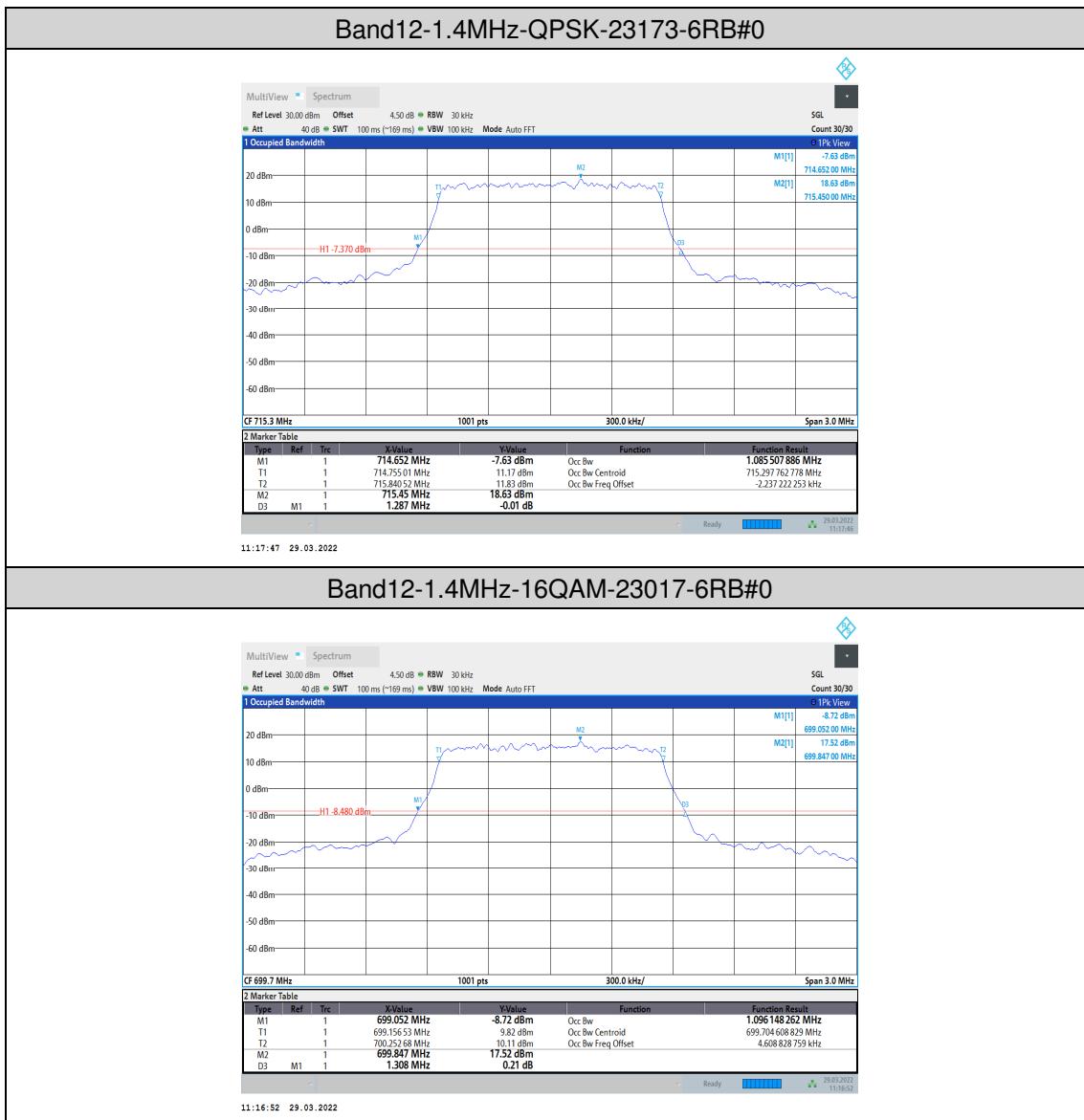


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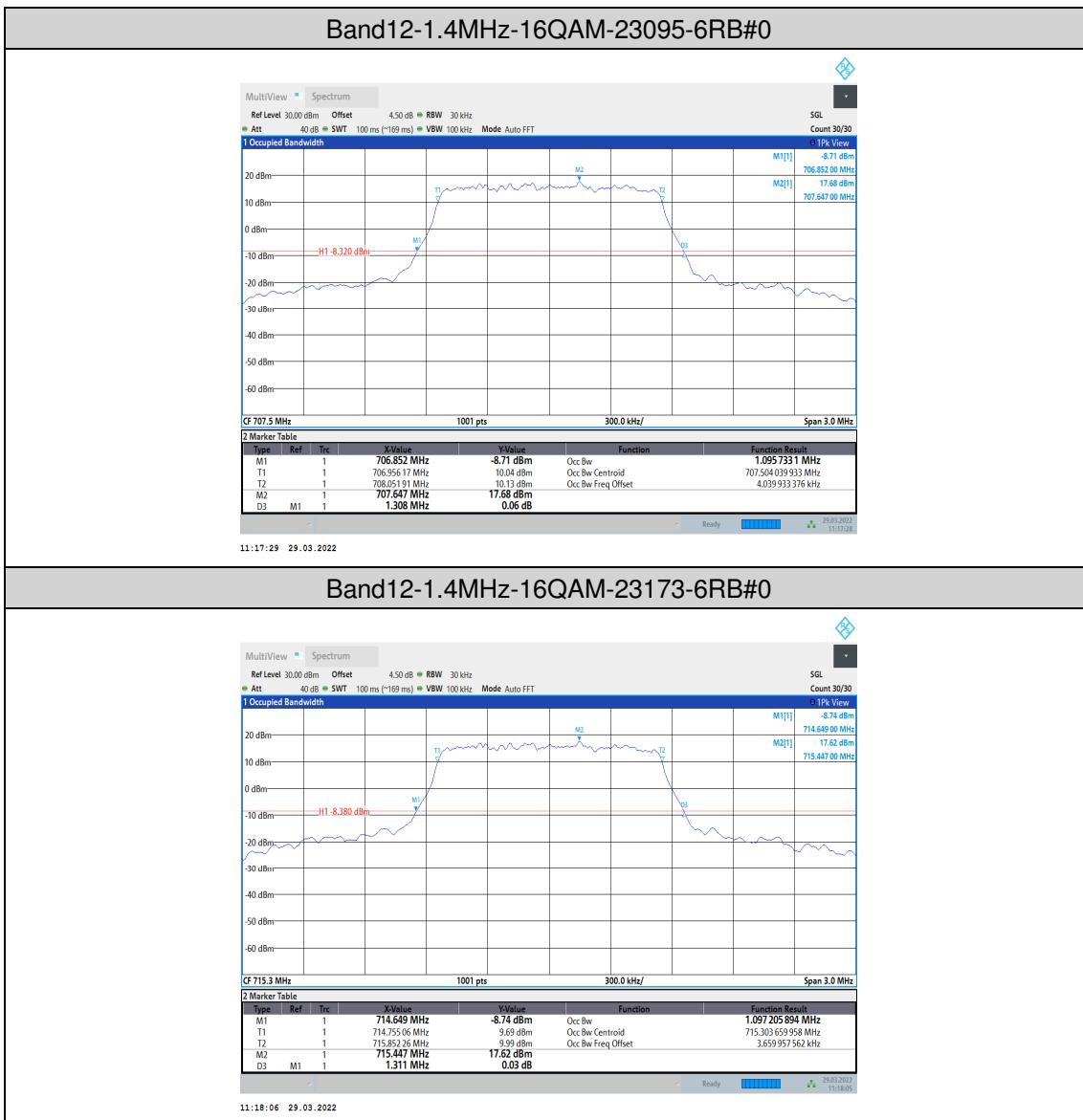
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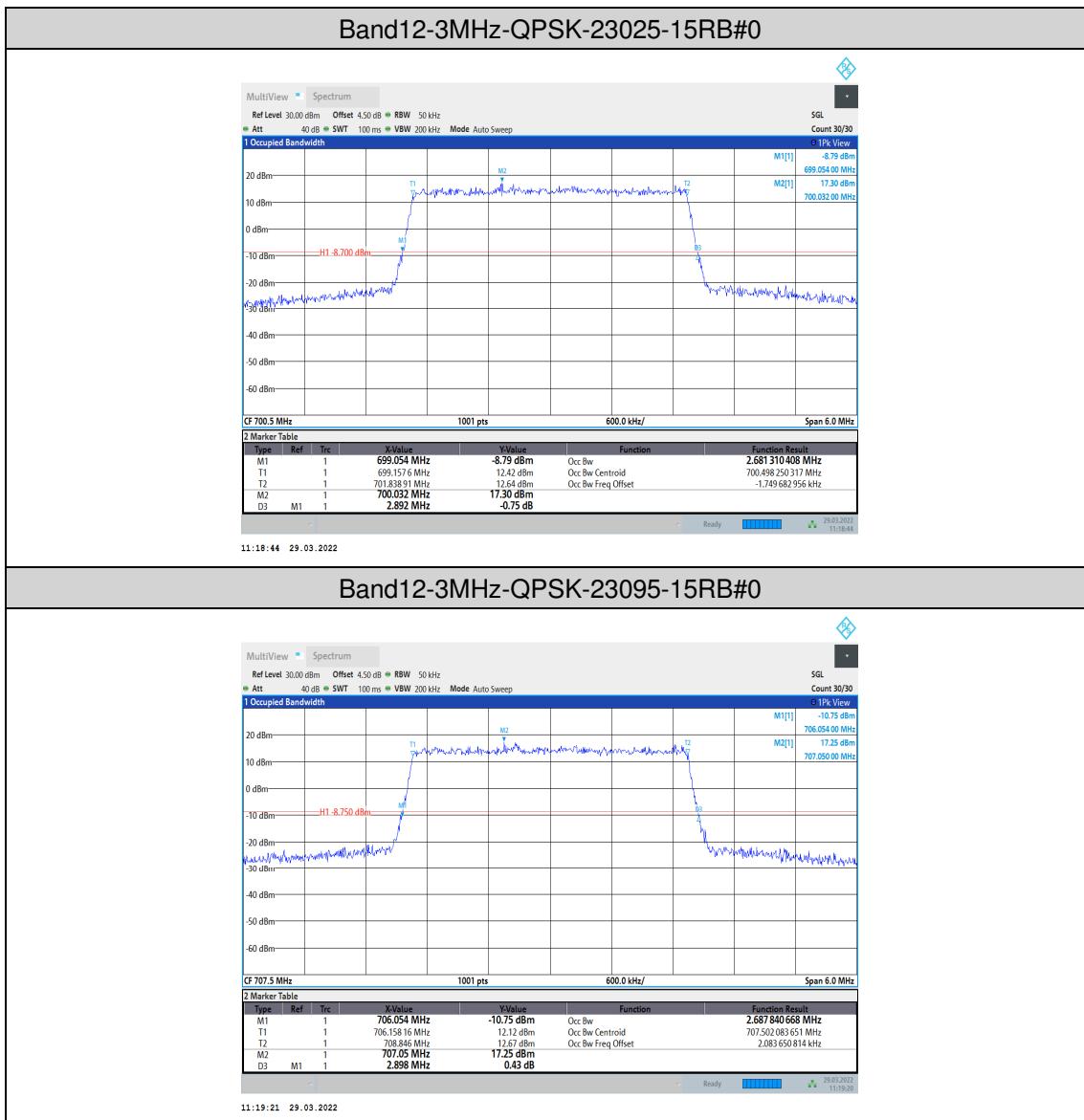


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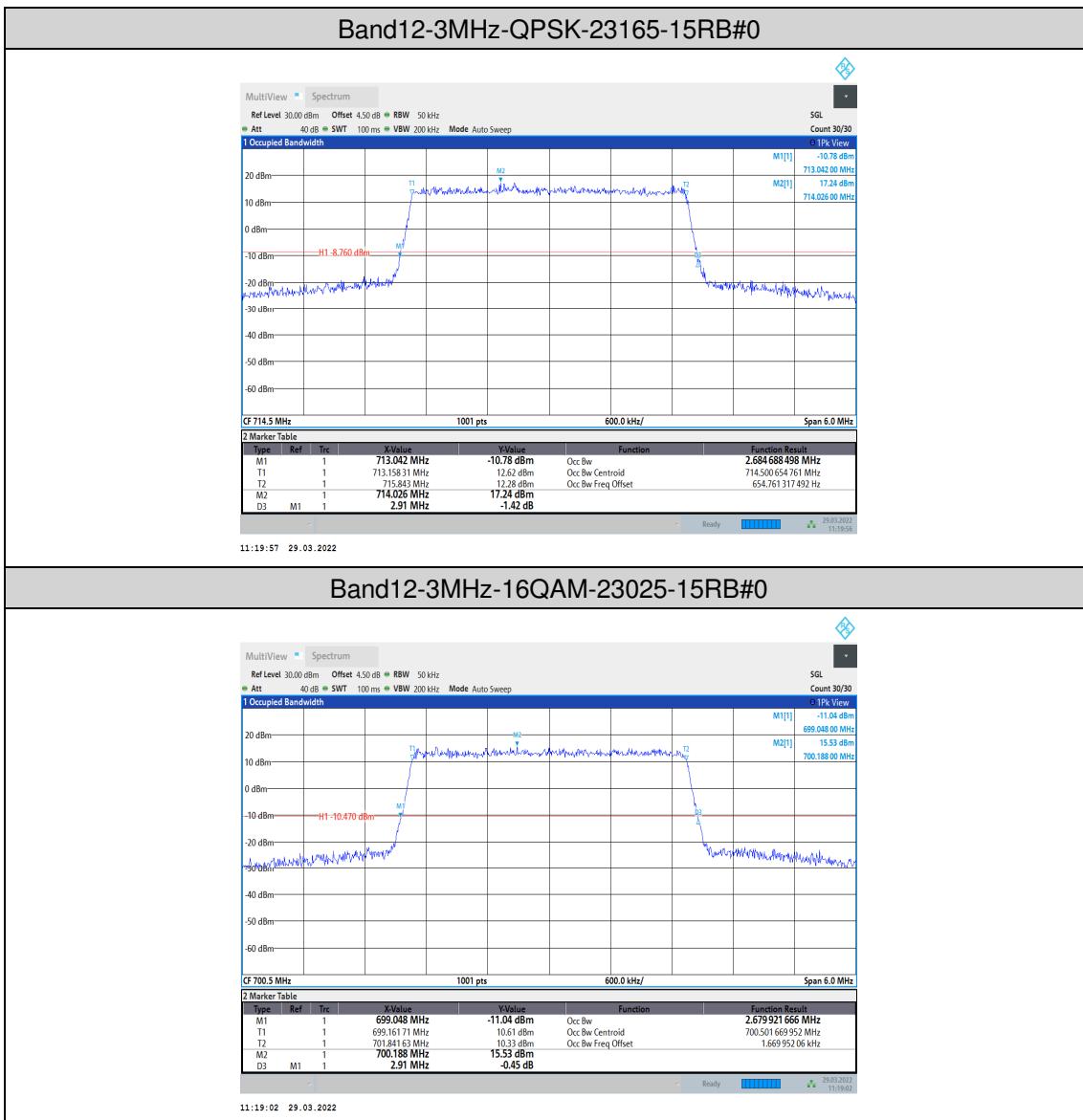


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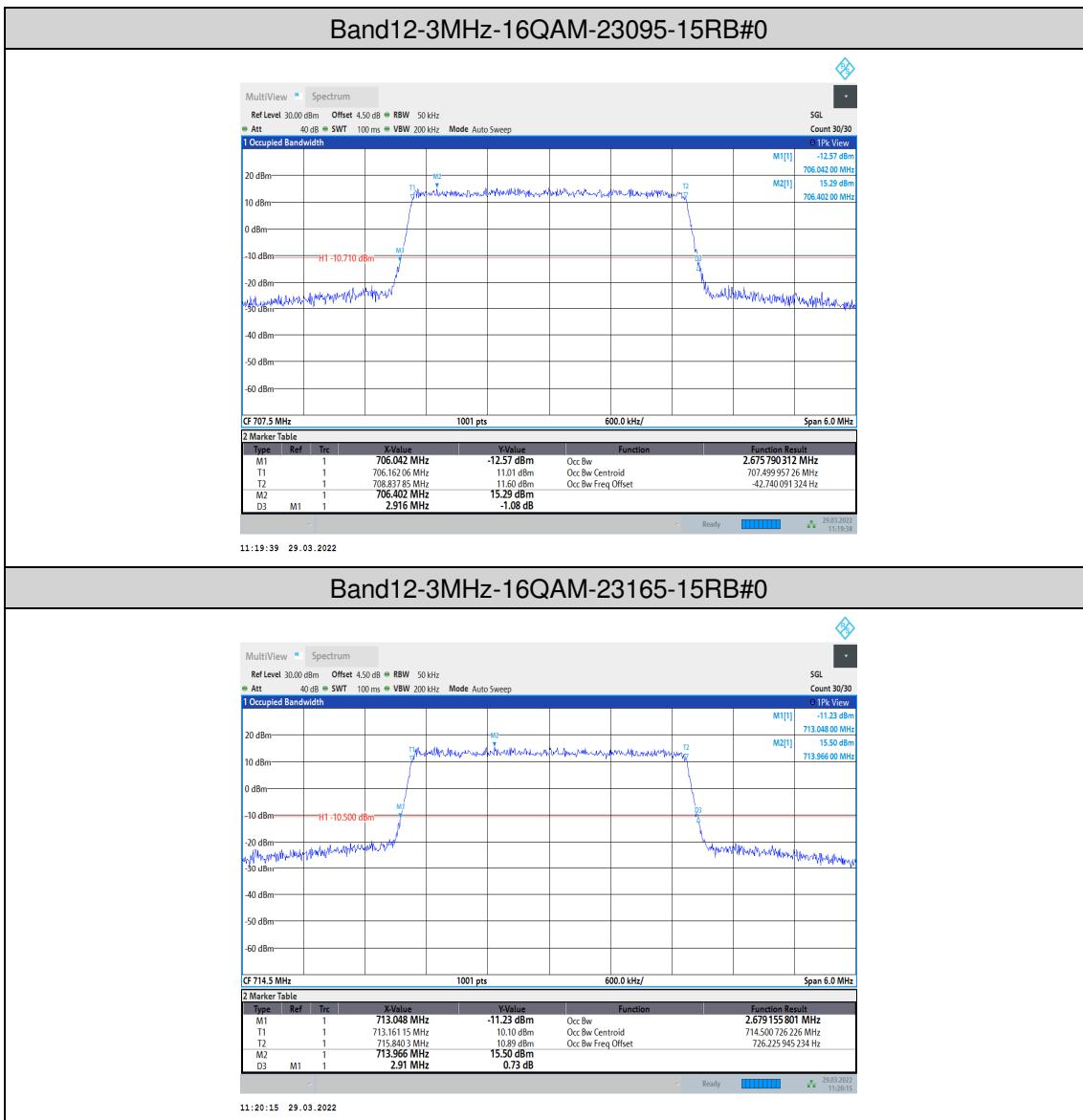
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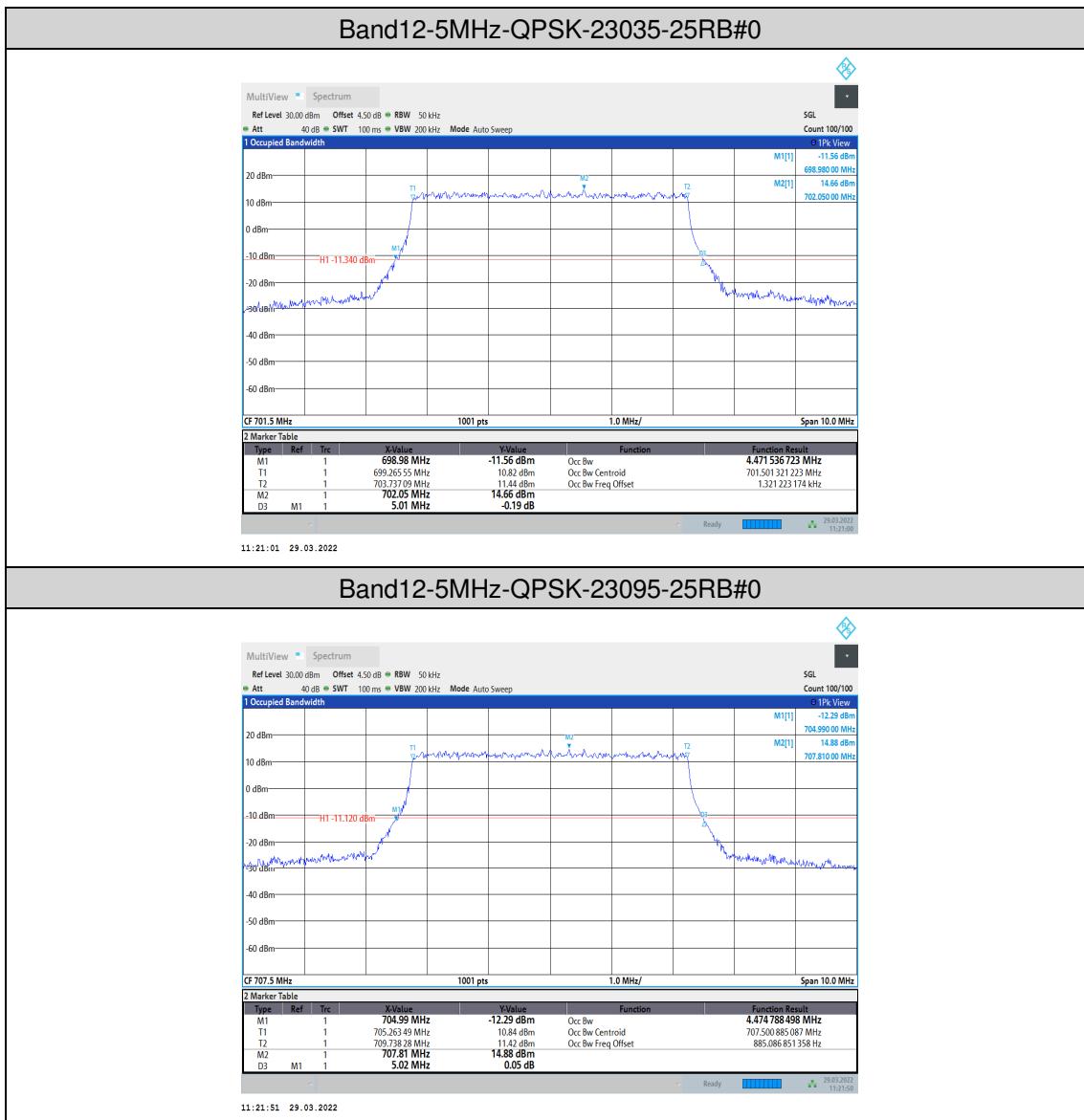


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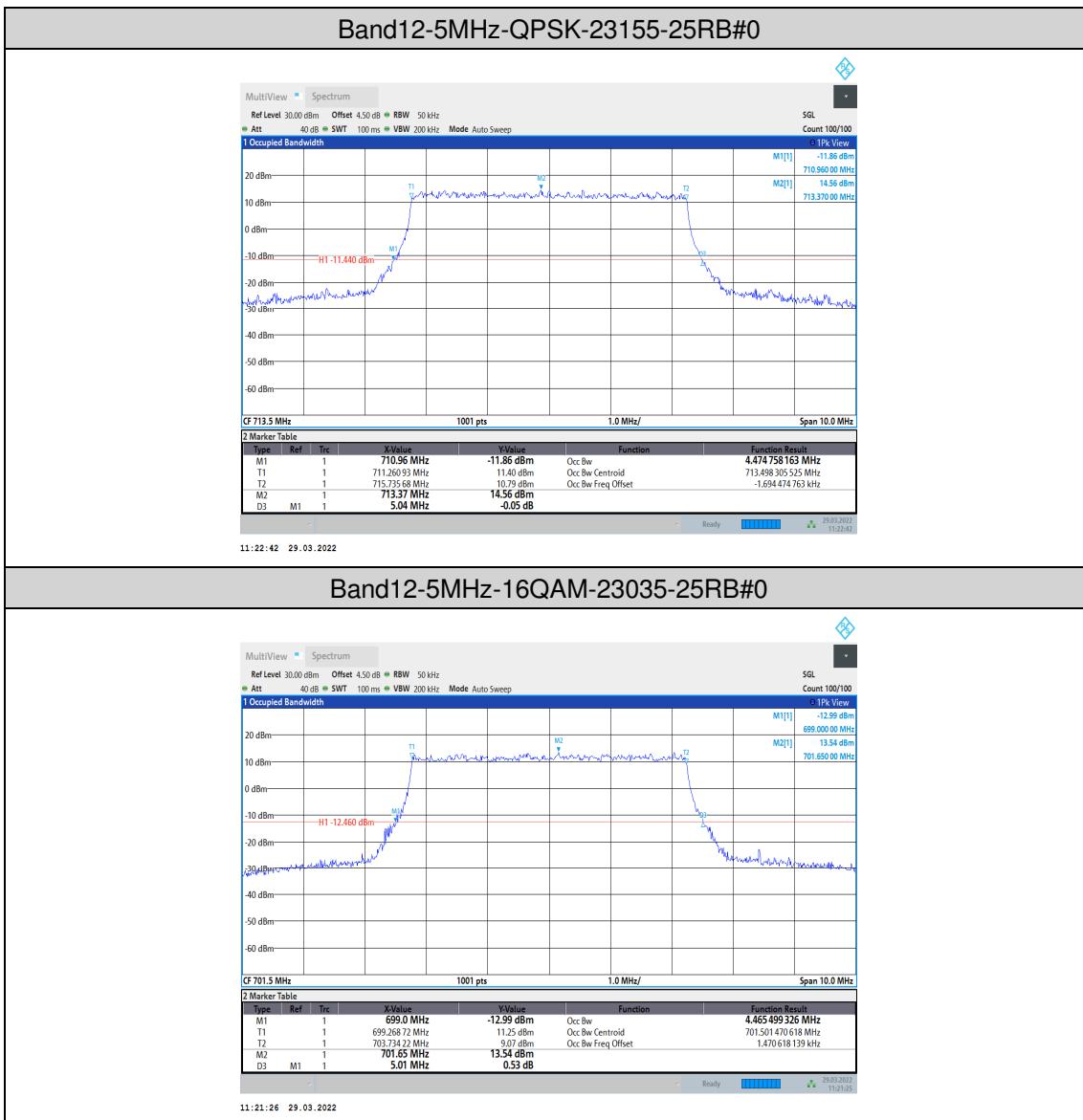


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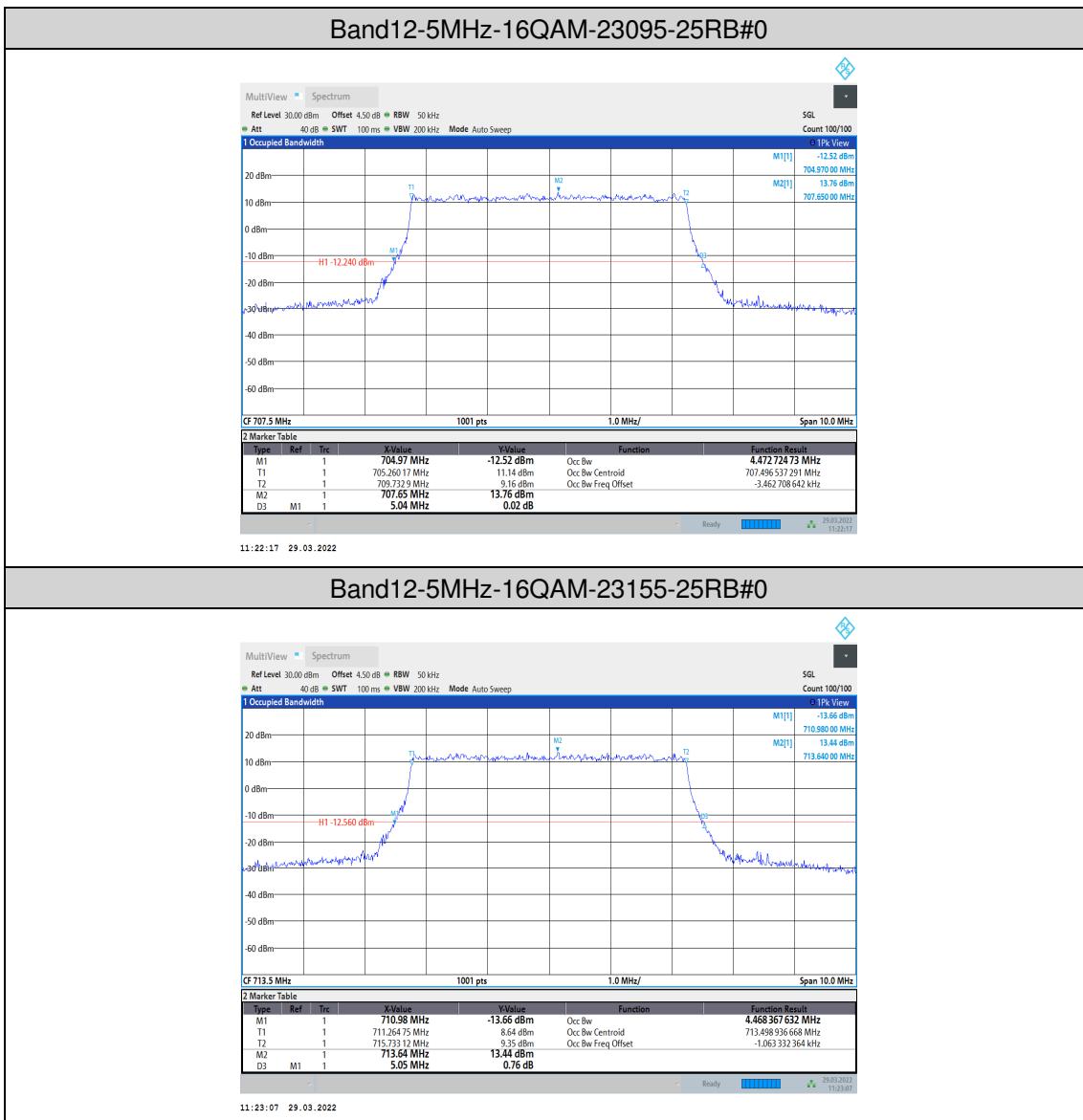
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 Rev.: 01  
 Page: 21 of 42



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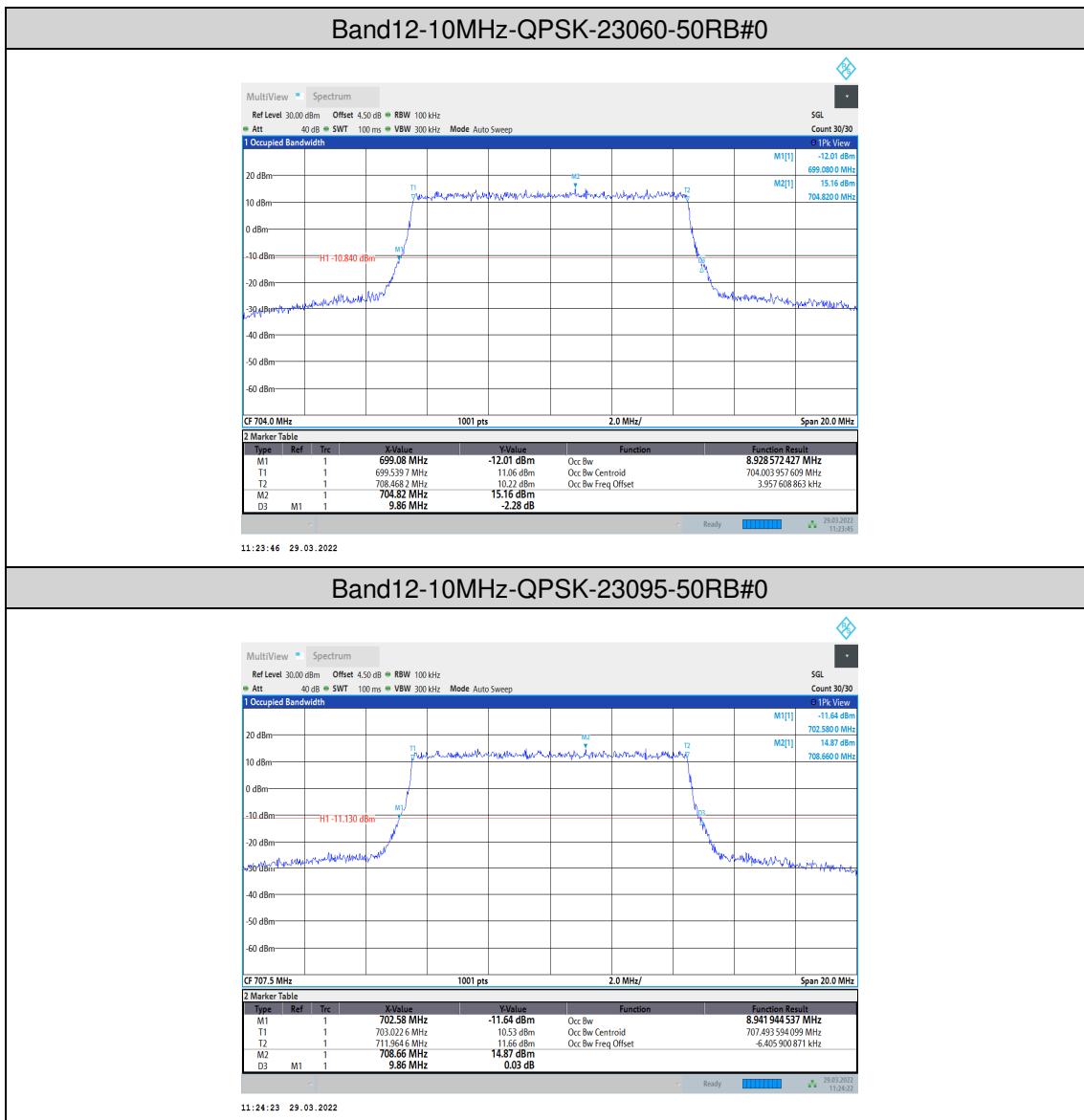
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 Rev.: 01  
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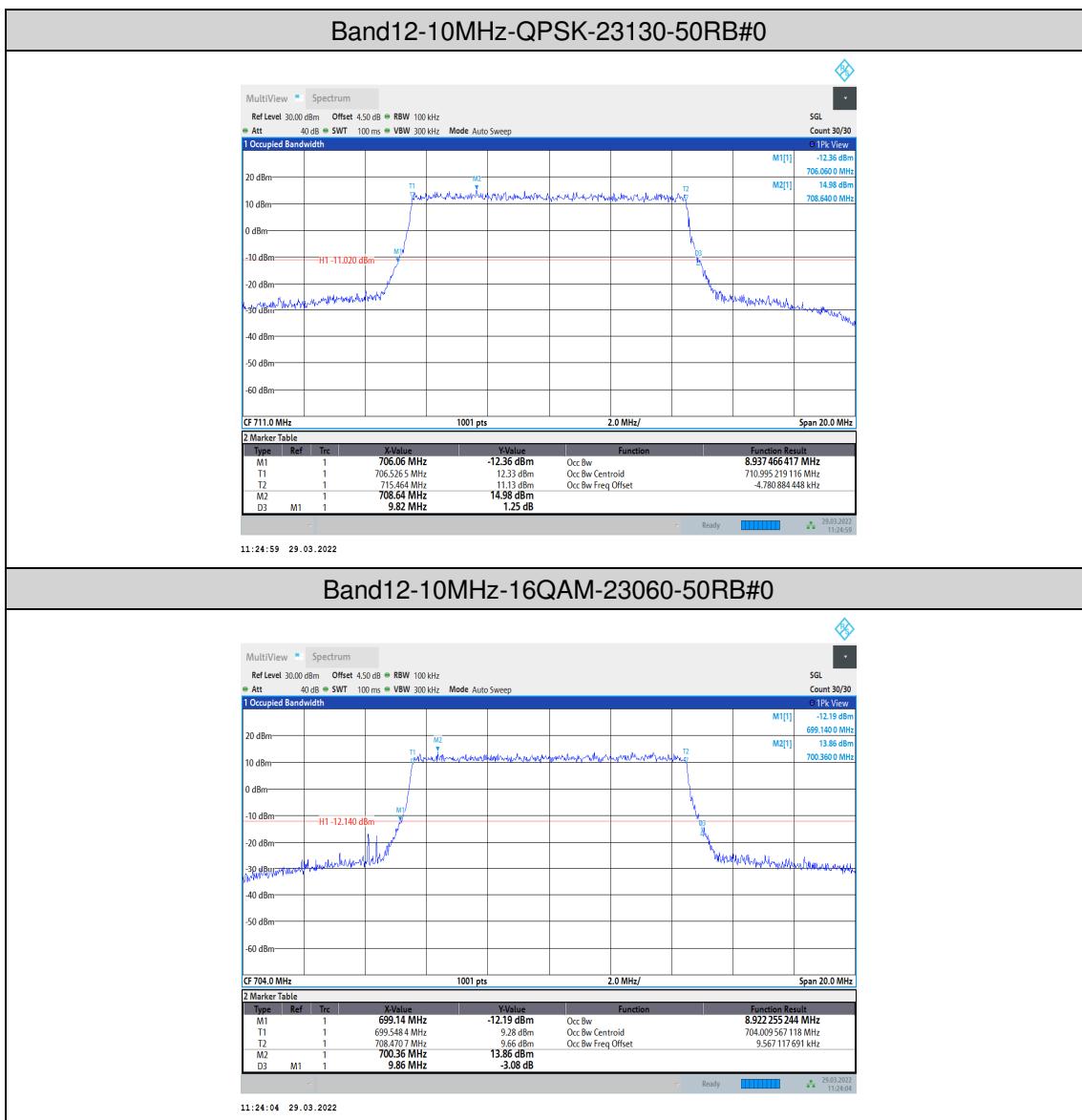


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Rev.: 01  
Page: 23 of 42

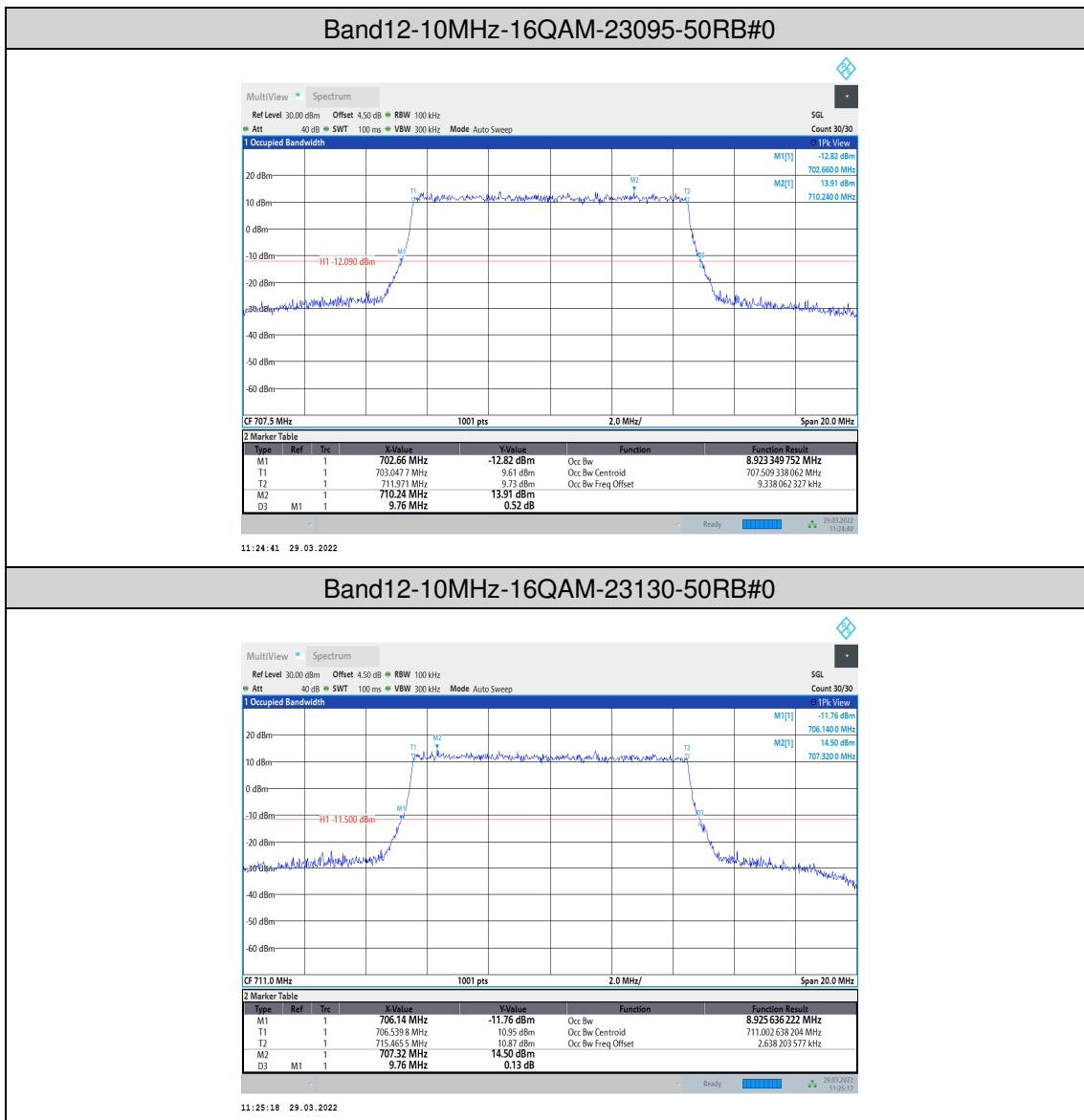


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 Rev.: 01  
 Page: 24 of 42



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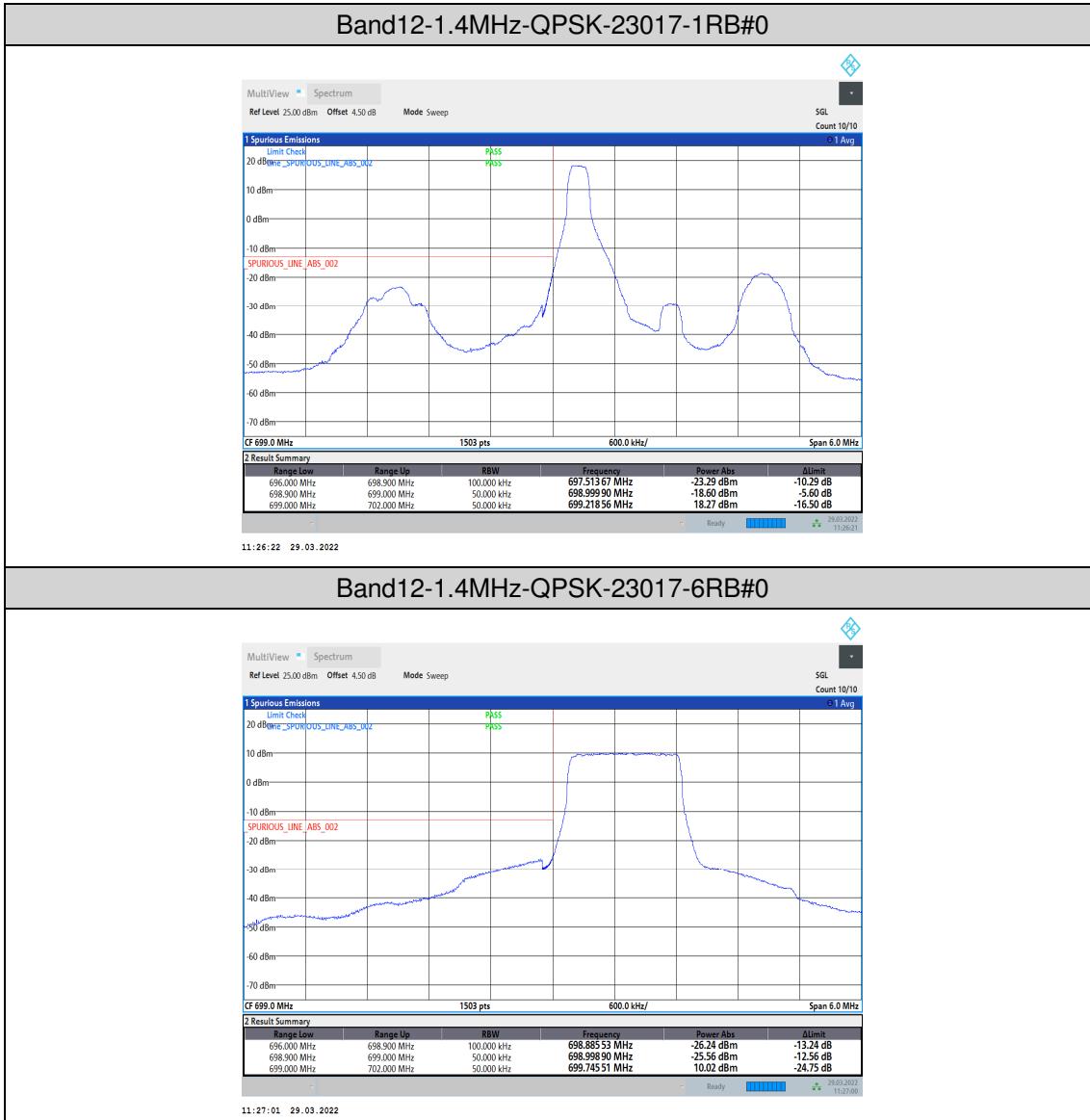
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## Band Edge

### Test Graphs



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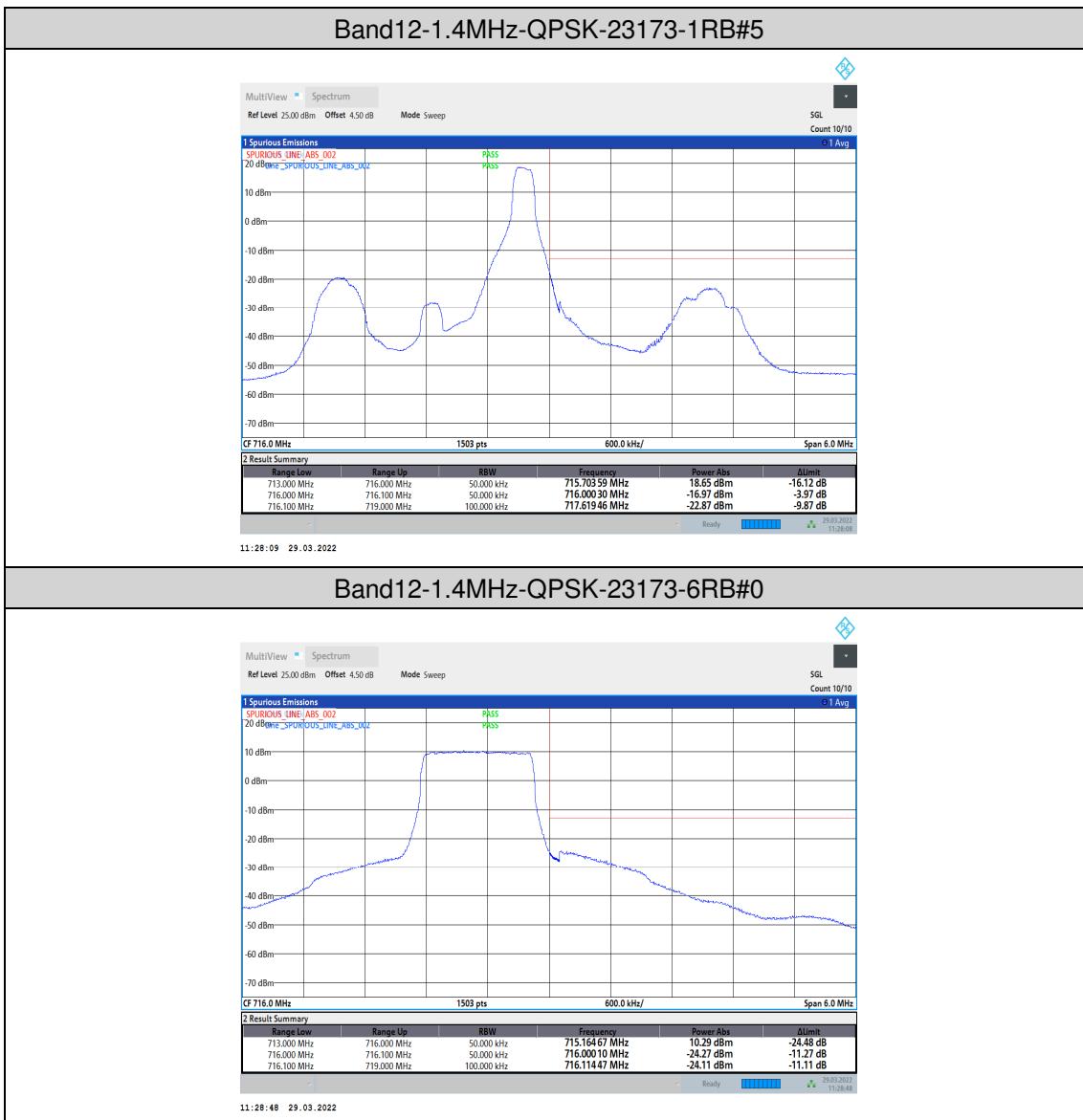


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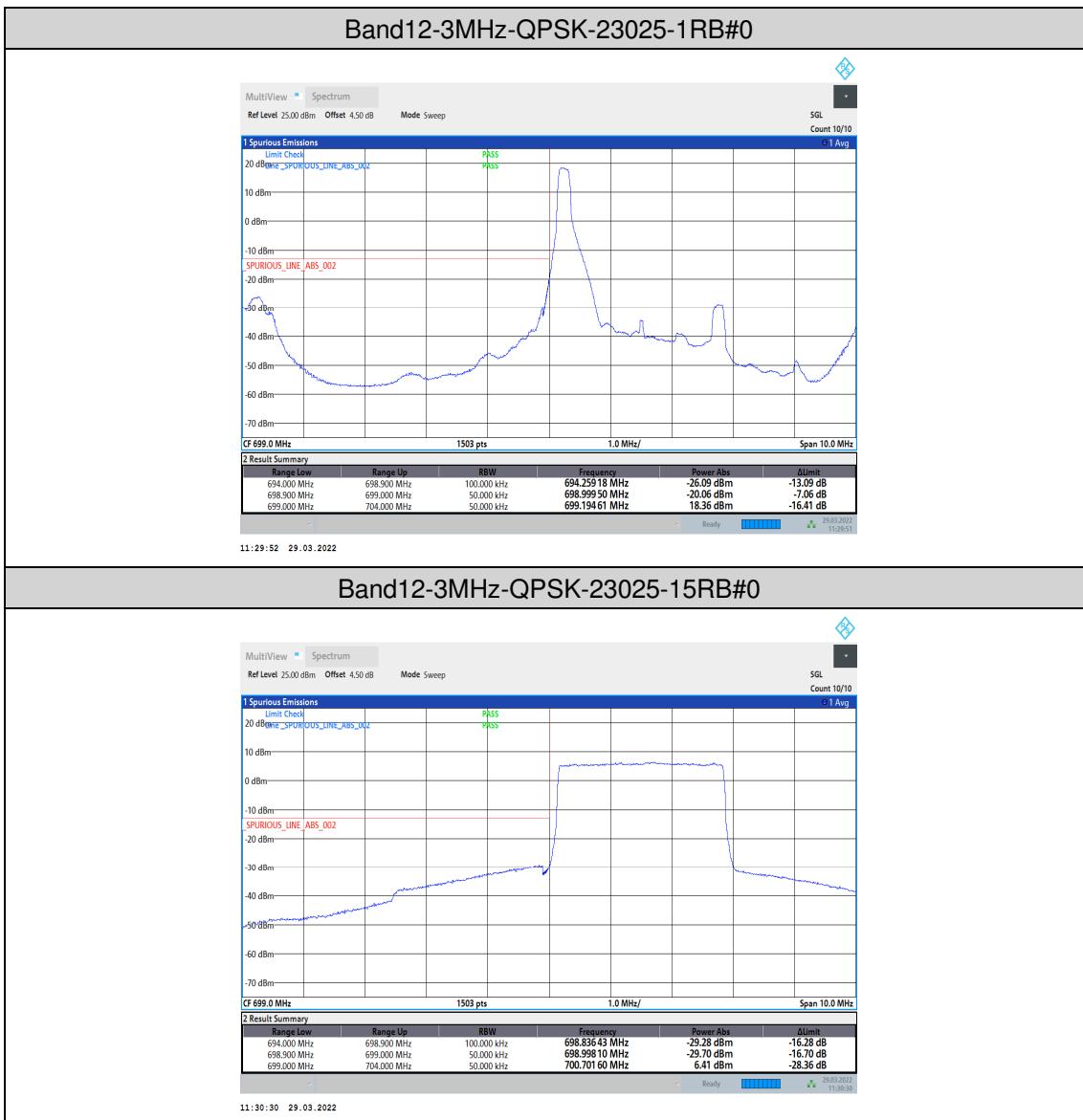


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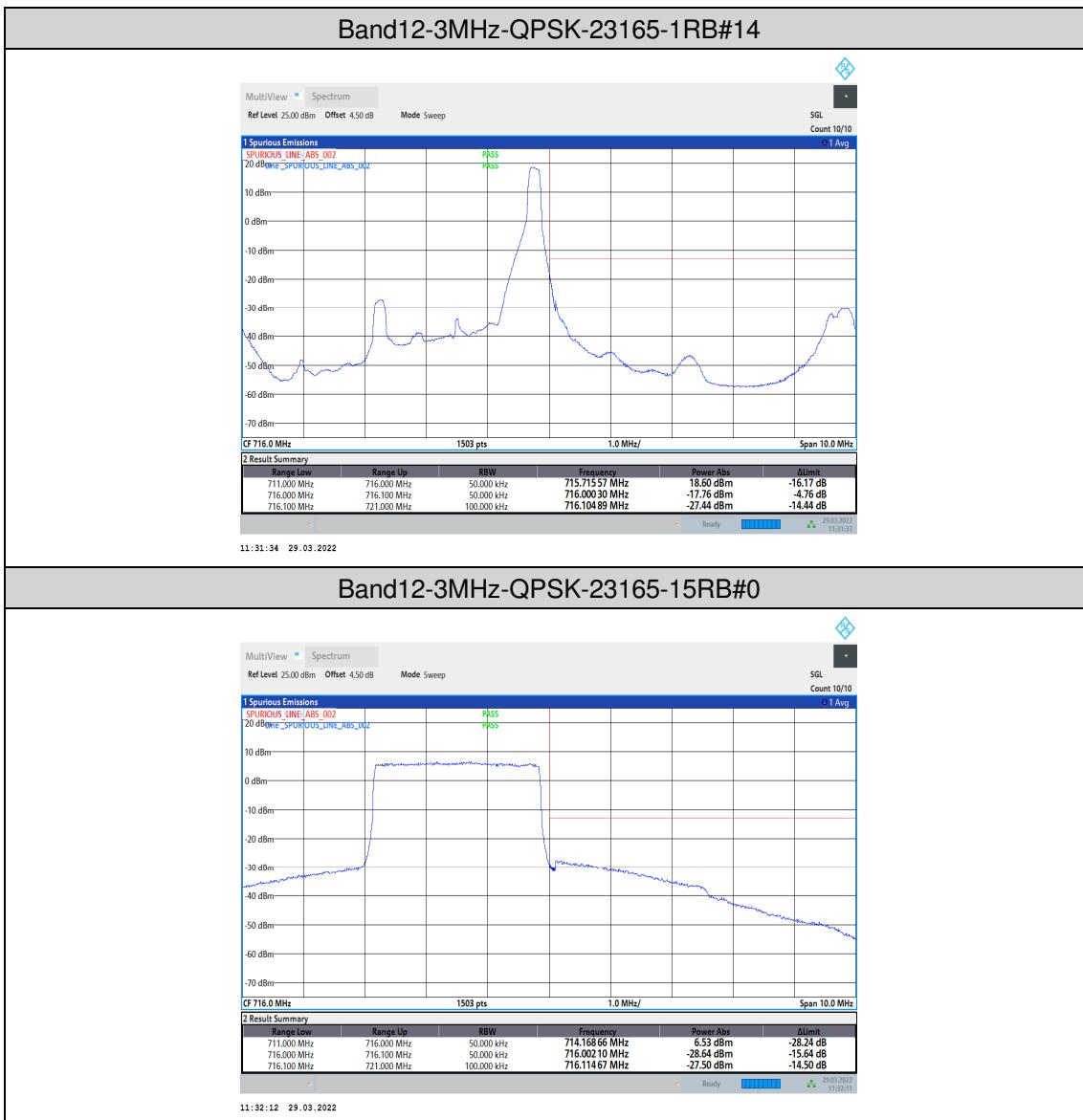
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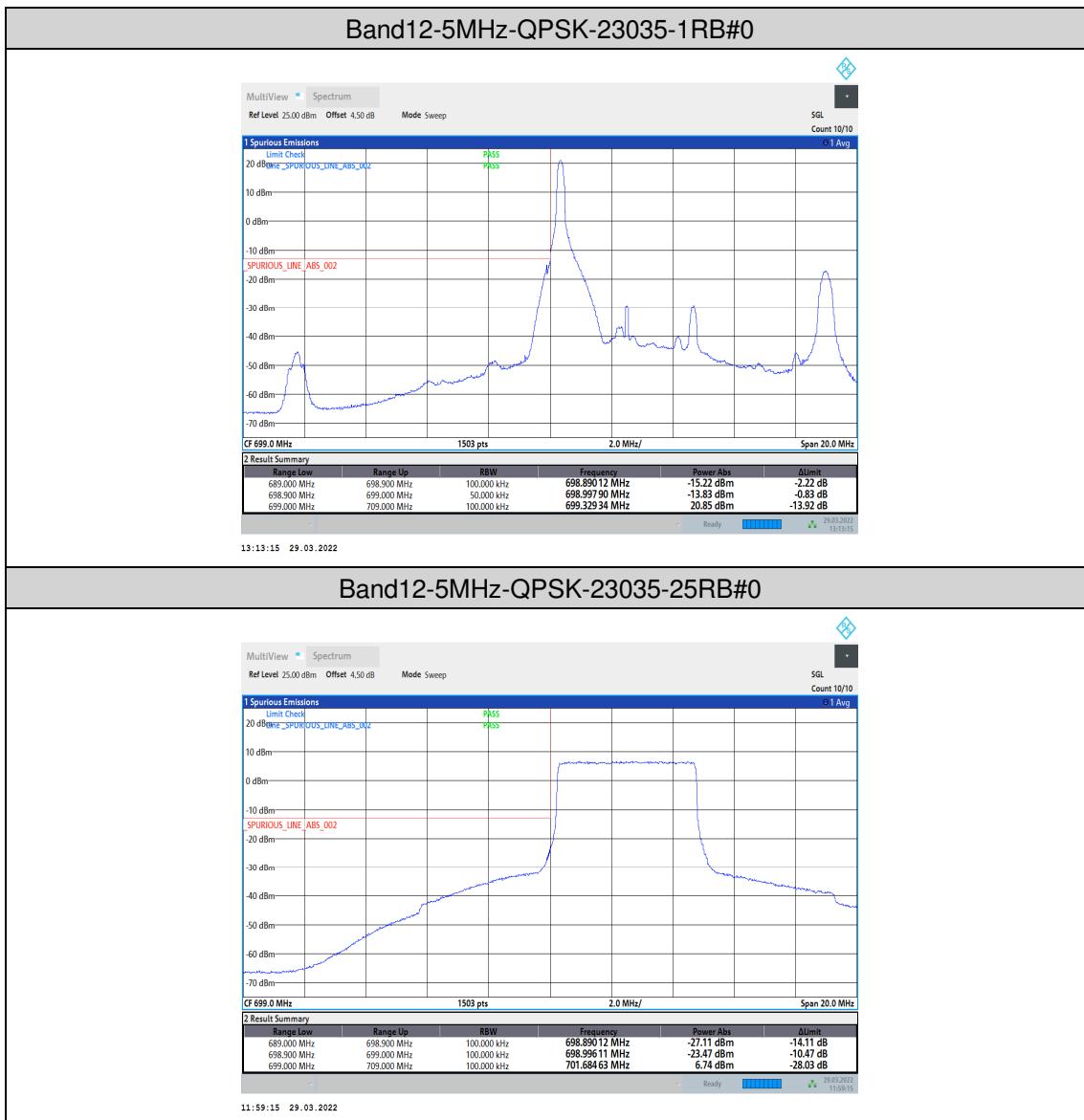


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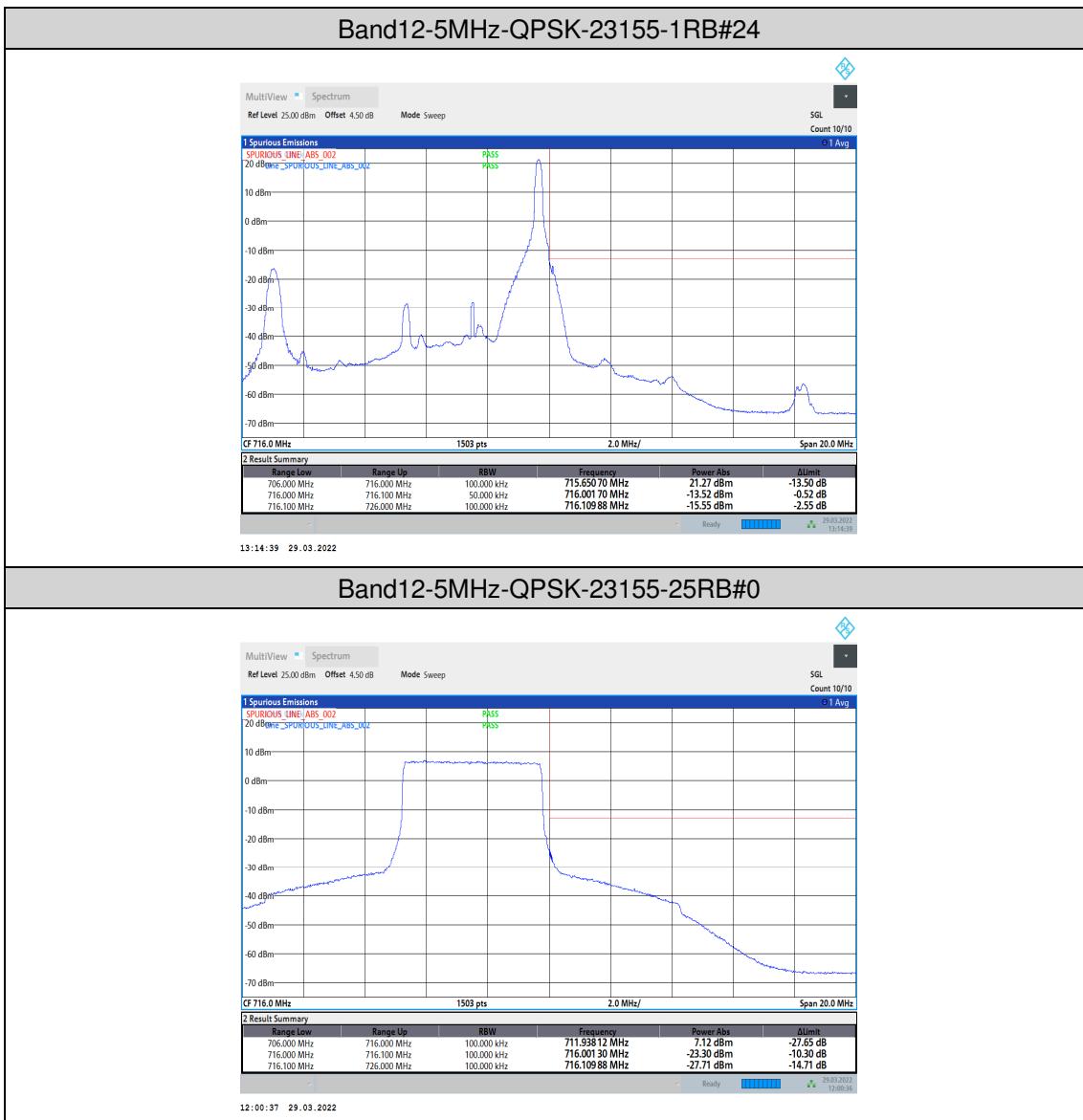
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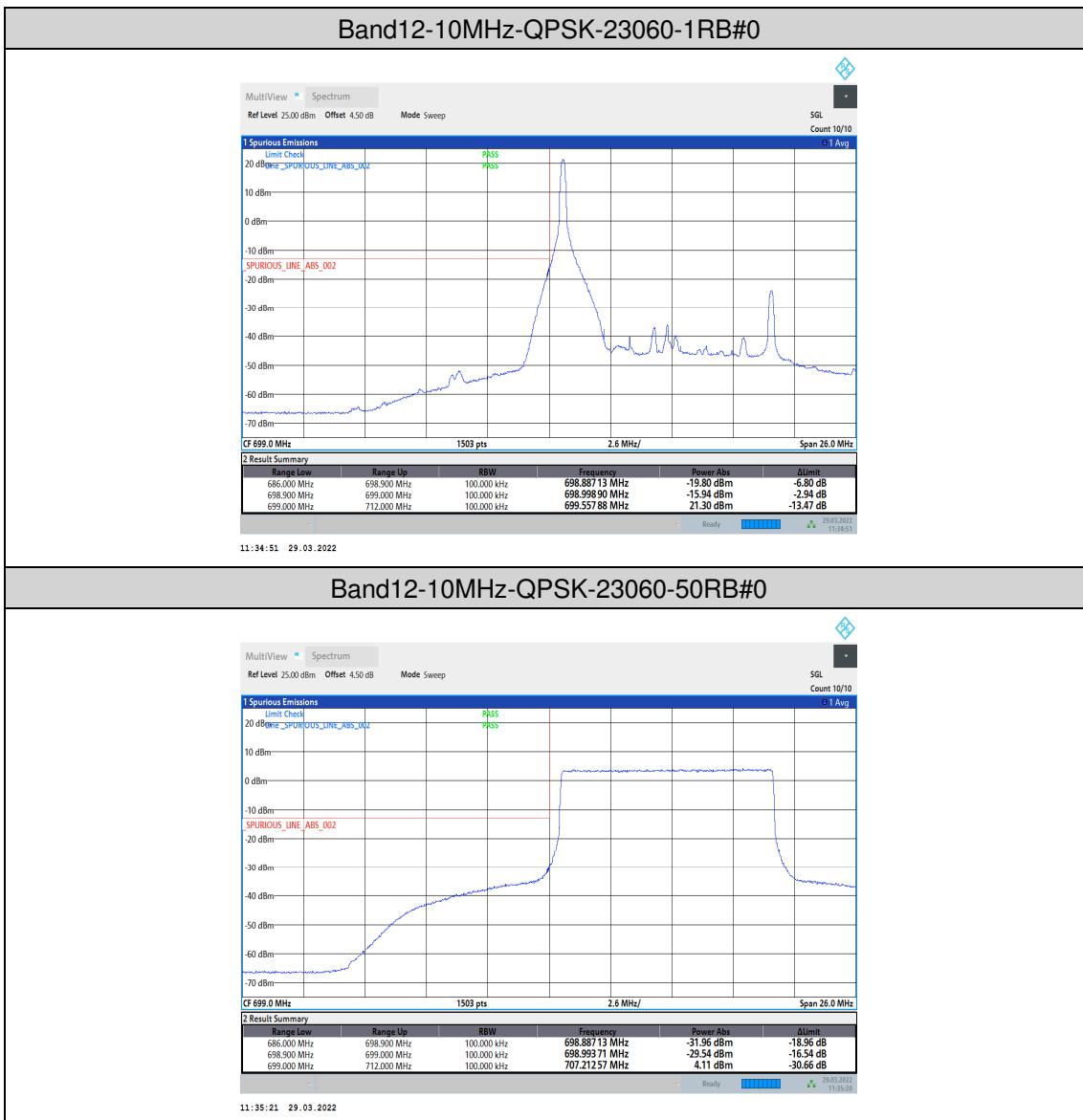
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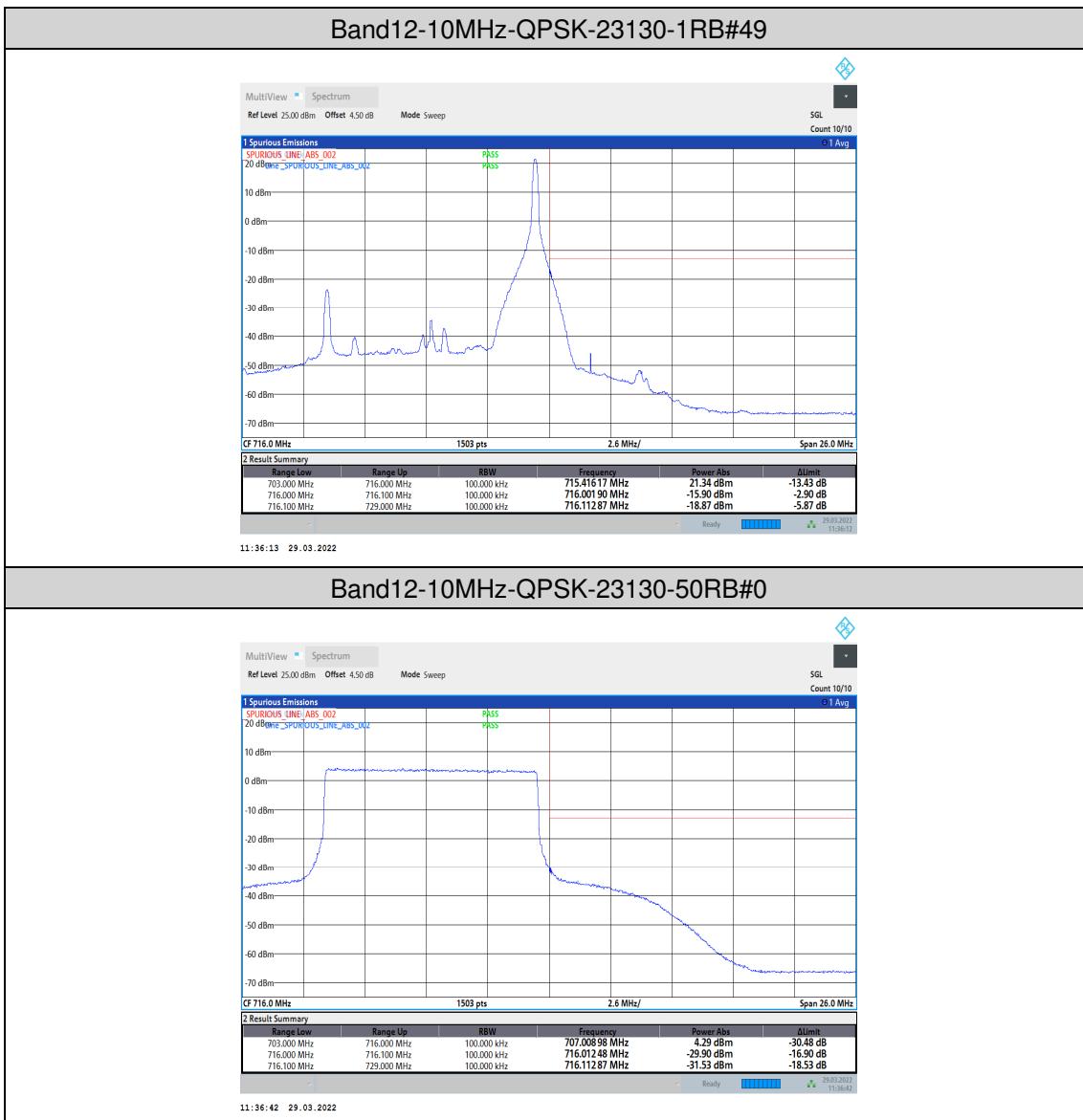
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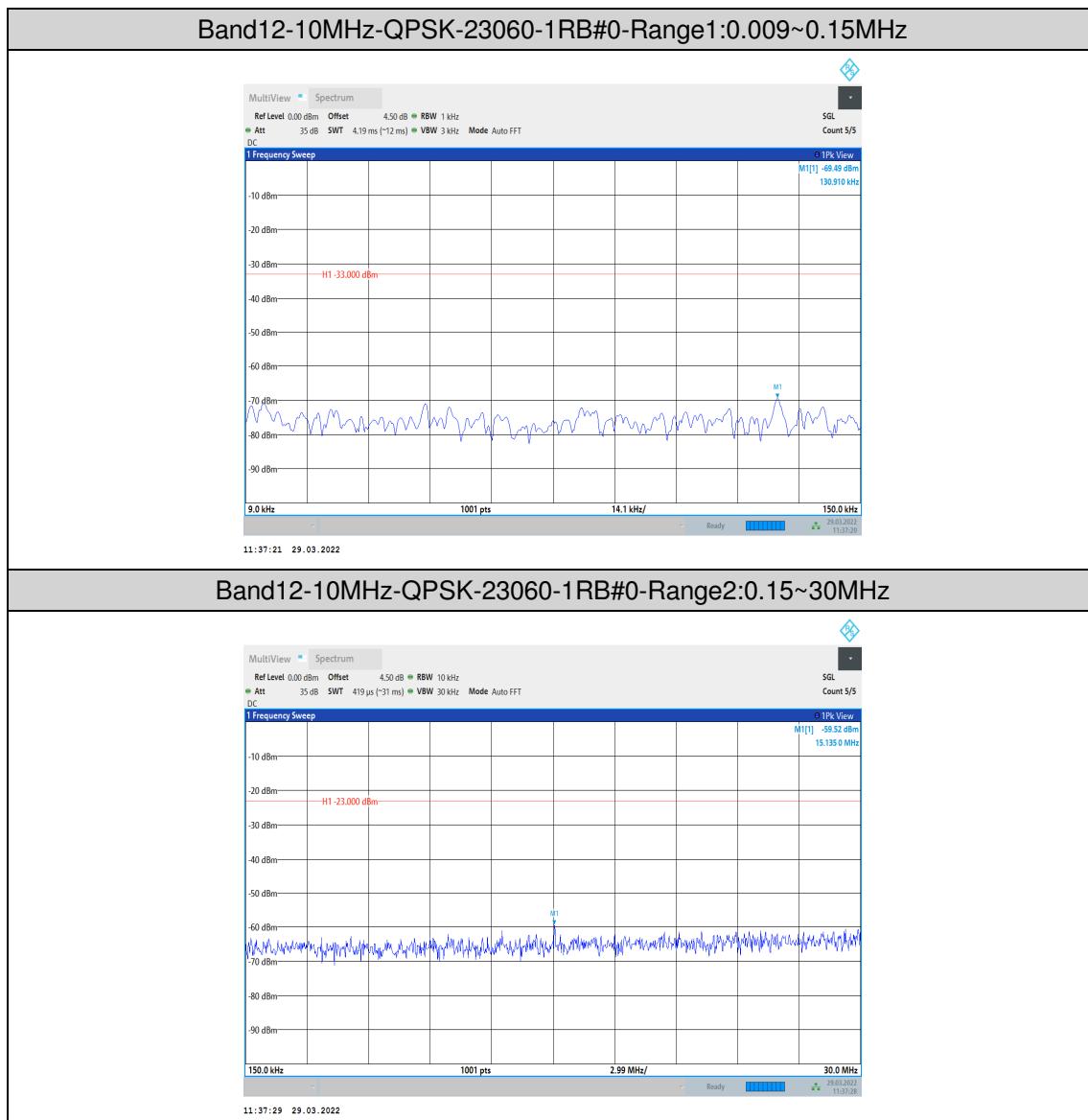
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## Conducted Spurious Emission

### Test Graphs



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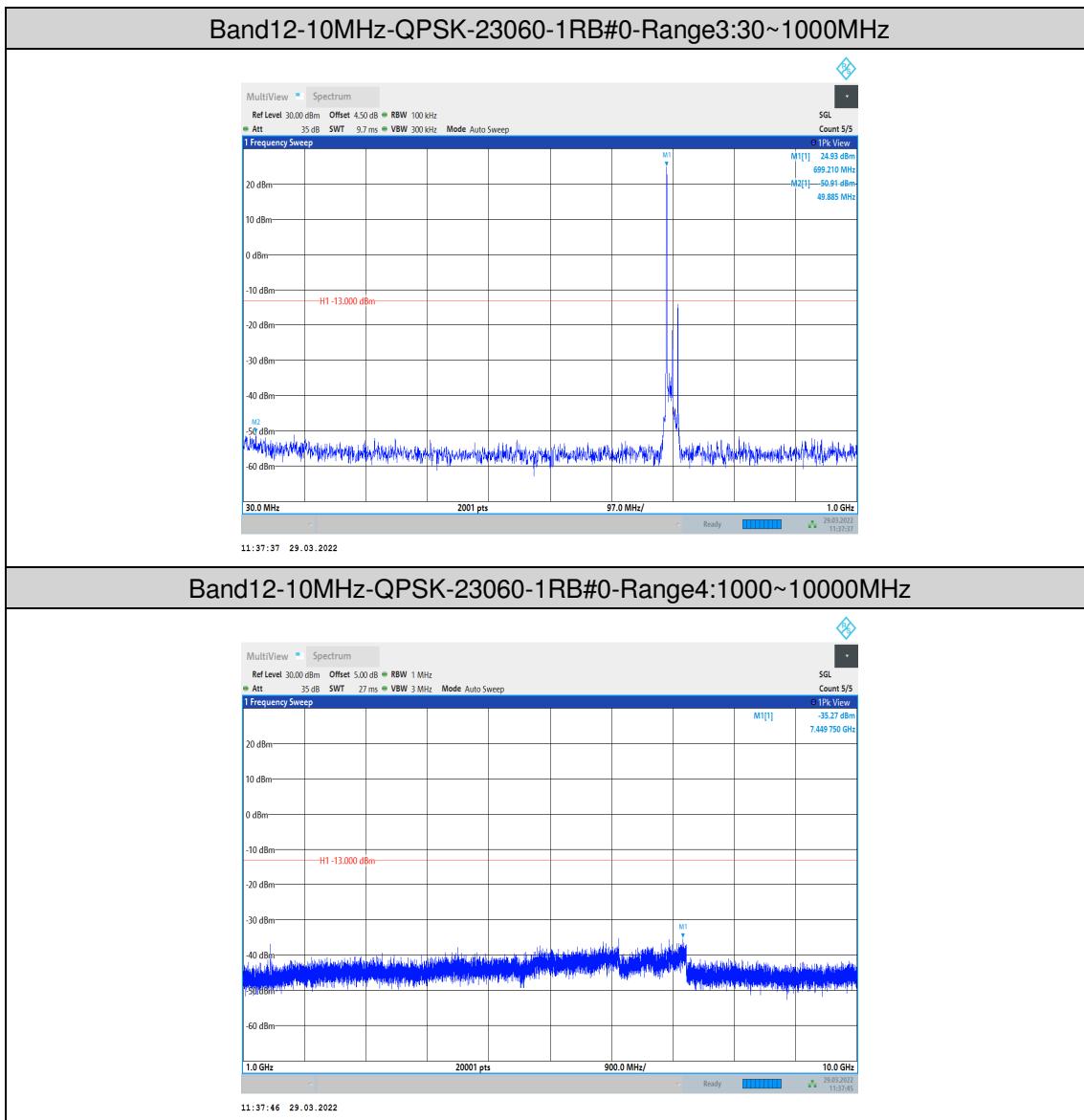
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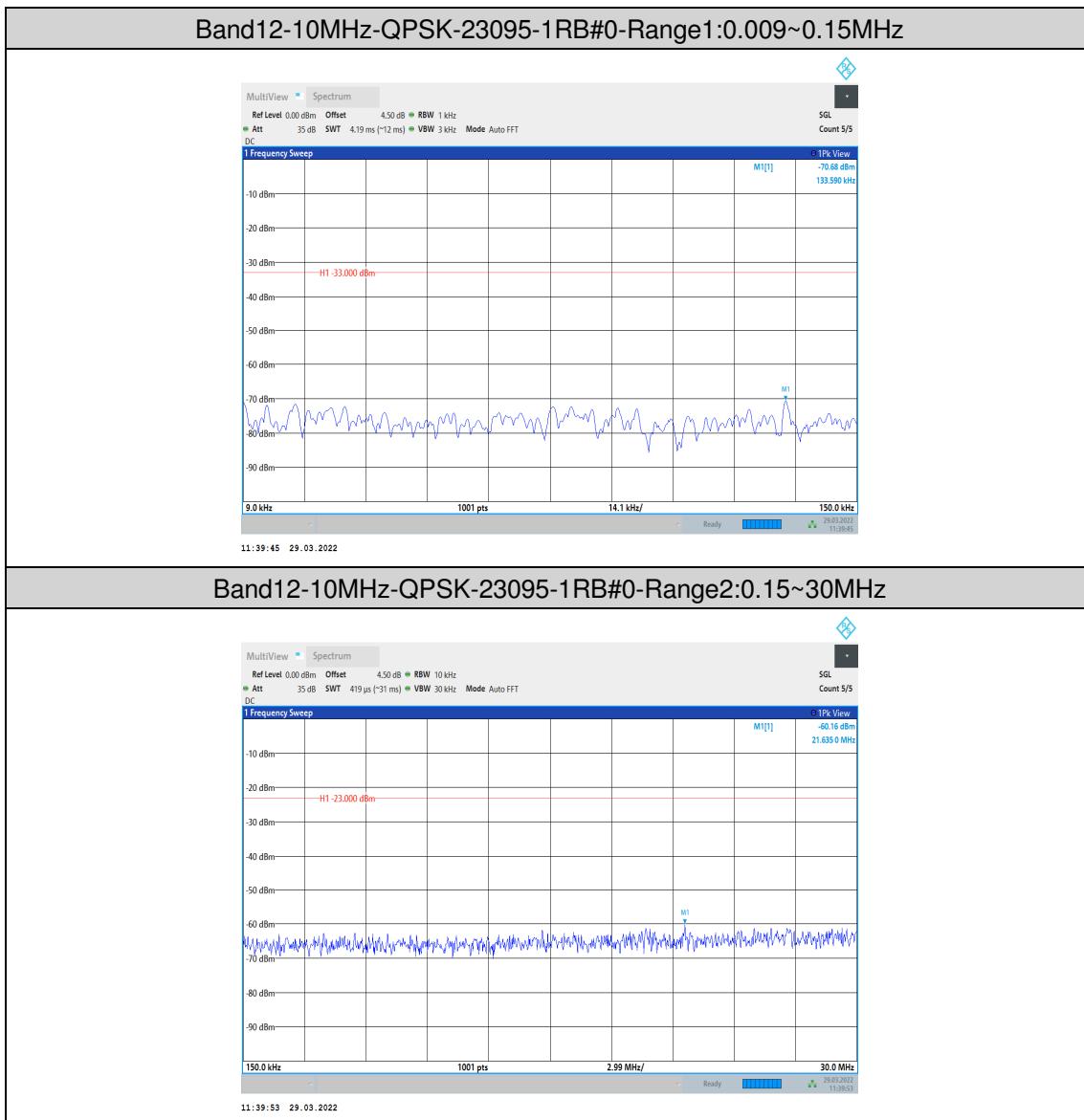


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 Rev.: 01  
 Page: 35 of 42



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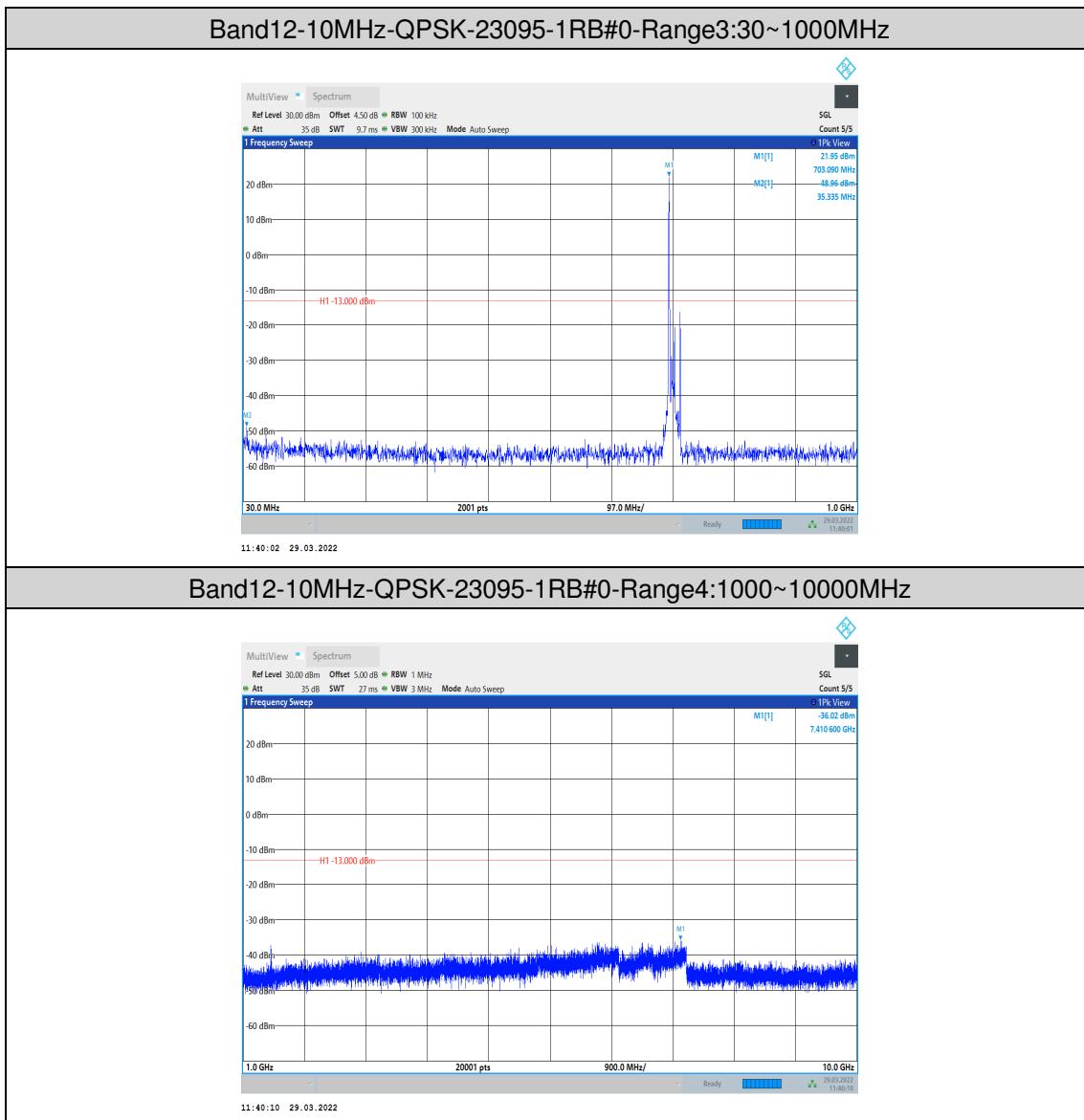
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 Rev.: 01  
 Page: 36 of 42



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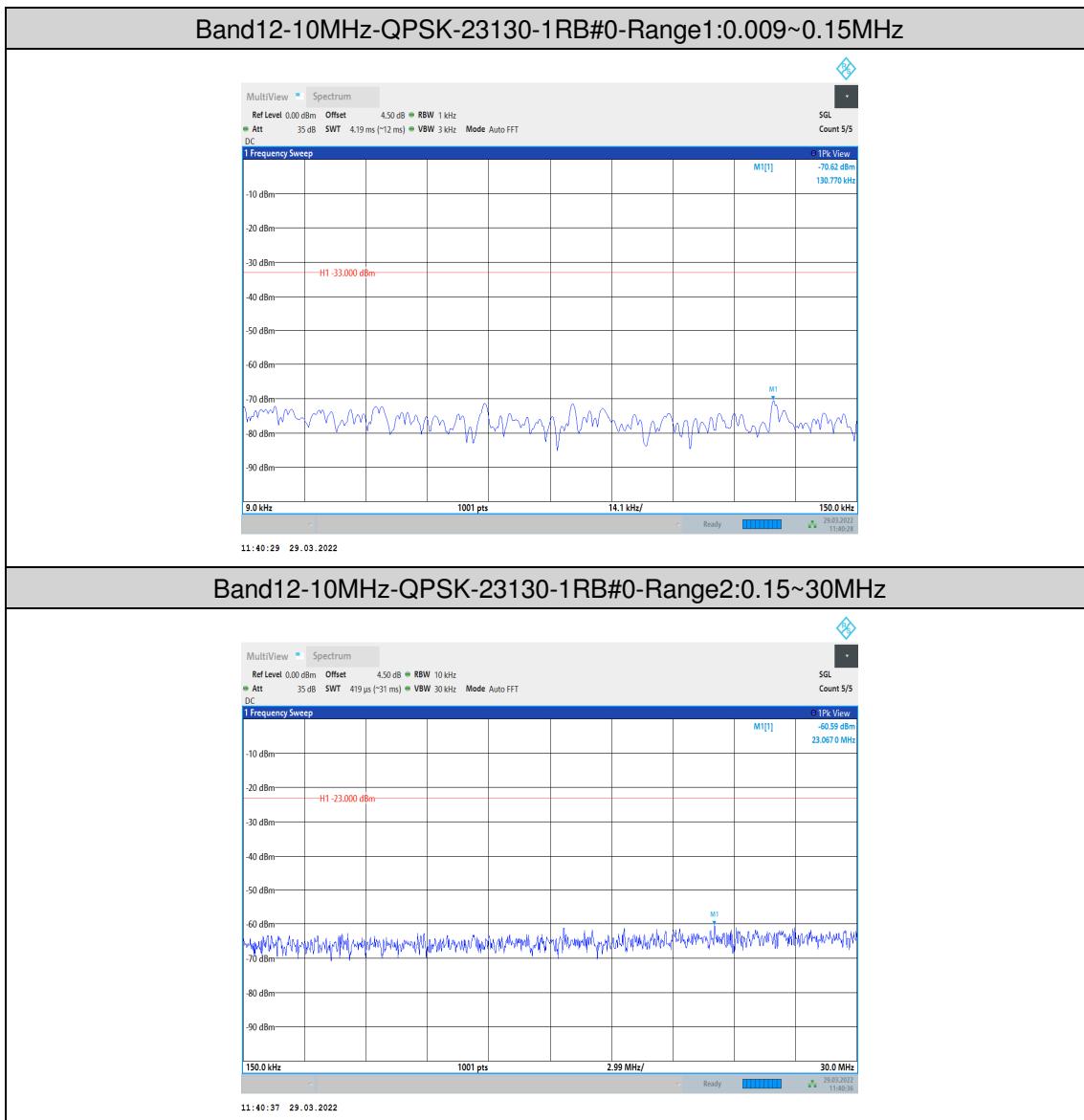
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 Rev.: 01  
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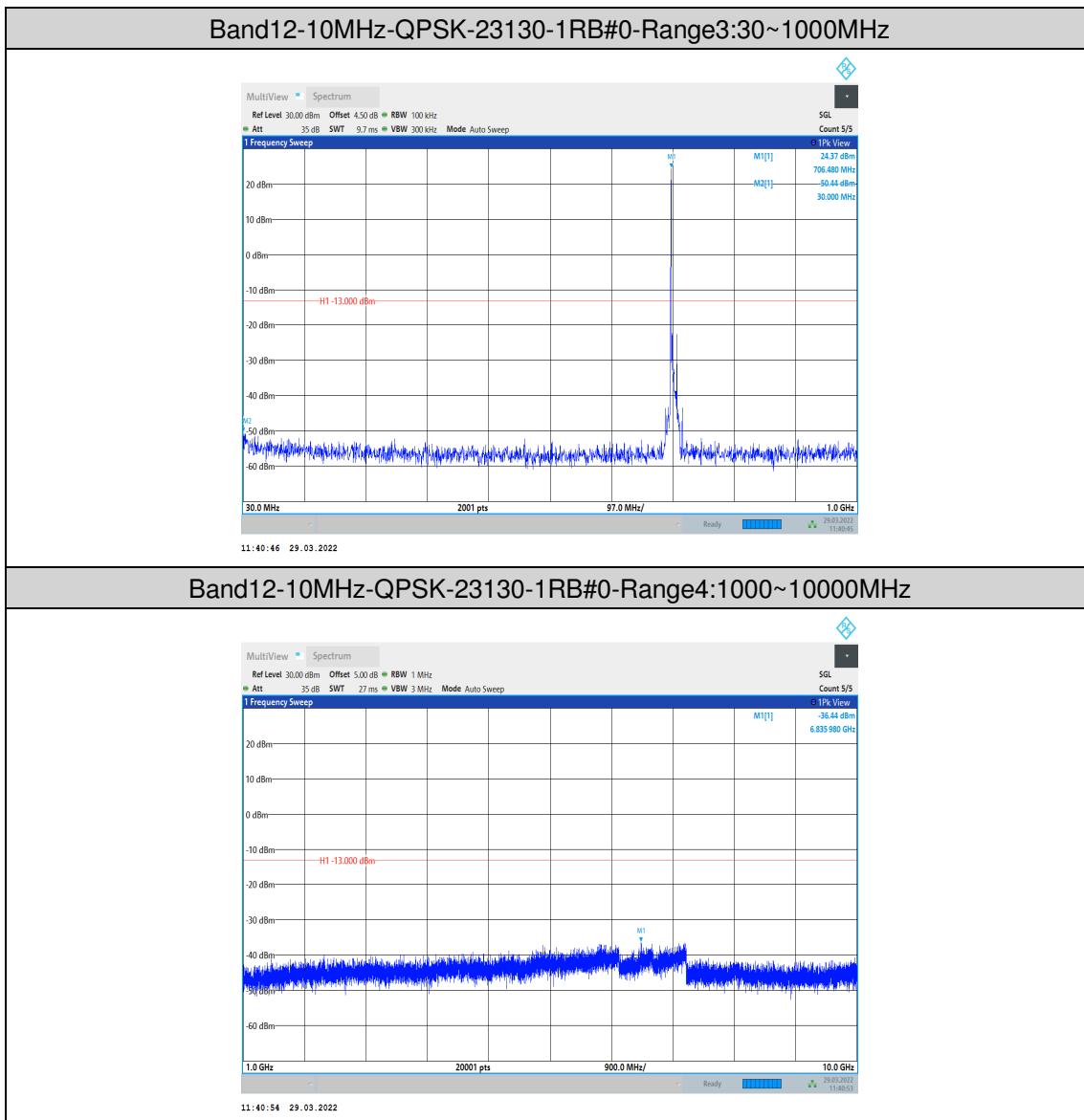
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Report No.: SEWM2203000022RG03  
 Rev.: 01  
 Page: 39 of 42

## Field Strength of Spurious Radiation

Test Band = \_Band12 TM1

Test Channel = Low

| Final Data List |                 |                      |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dB $\mu$ V] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 1399.1800       | 56.64                | -117.64     | -61.00      | -13.00      | 48.00       | 115         | 221       | Horizontal |
| 2               | 2098.7700       | 54.91                | -115.99     | -61.08      | -13.00      | 48.08       | 146         | 336       | Horizontal |
| 3               | 2798.3600       | 50.74                | -113.70     | -62.96      | -13.00      | 49.96       | 239         | 31        | Horizontal |
| 4               | 3497.9500       | 51.68                | -112.28     | -60.60      | -13.00      | 47.60       | 184         | 43        | Horizontal |
| 5               | 4197.5400       | 49.64                | -110.12     | -60.48      | -13.00      | 47.48       | 192         | 312       | Horizontal |
| 6               | 4897.1300       | 50.70                | -108.25     | -57.55      | -13.00      | 44.55       | 200         | 274       | Horizontal |

| Final Data List |                 |                      |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dB $\mu$ V] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1399.1800       | 61.61                | -117.64     | -56.03      | -13.00      | 43.03       | 175         | 75        | Vertical |
| 2               | 2098.7700       | 53.63                | -115.99     | -62.36      | -13.00      | 49.36       | 236         | 359       | Vertical |
| 3               | 2798.3600       | 50.76                | -113.70     | -62.94      | -13.00      | 49.94       | 154         | 289       | Vertical |
| 4               | 3497.9500       | 50.16                | -112.28     | -62.12      | -13.00      | 49.12       | 194         | 4         | Vertical |
| 5               | 4197.5400       | 49.68                | -110.12     | -60.44      | -13.00      | 47.44       | 170         | 227       | Vertical |
| 6               | 4897.1300       | 50.01                | -108.25     | -58.24      | -13.00      | 45.24       | 280         | 25        | Vertical |

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Report No.: SEWM2203000022RG03  
 Rev.: 01  
 Page: 40 of 42

**Test Band = \_Band12 TM1**

**Test Channel = Mid**

| Final Data List |                 |                      |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dB $\mu$ V] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 1406.1800       | 60.14                | -117.67     | -57.53      | -13.00      | 44.53       | 225         | 159       | Horizontal |
| 2               | 2109.1429       | 55.35                | -115.95     | -60.60      | -13.00      | 47.60       | 184         | 46        | Horizontal |
| 3               | 2812.3600       | 50.32                | -113.60     | -63.28      | -13.00      | 50.28       | 196         | 20        | Horizontal |
| 4               | 3515.4500       | 49.89                | -112.23     | -62.34      | -13.00      | 49.34       | 233         | 196       | Horizontal |
| 5               | 4218.5400       | 50.68                | -110.05     | -59.37      | -13.00      | 46.37       | 255         | 159       | Horizontal |
| 6               | 4921.6300       | 49.02                | -108.23     | -59.21      | -13.00      | 46.21       | 264         | 12        | Horizontal |

| Final Data List |                 |                      |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dB $\mu$ V] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1406.1800       | 62.51                | -117.67     | -55.16      | -13.00      | 42.16       | 126         | 87        | Vertical |
| 2               | 2109.2700       | 54.66                | -115.94     | -61.28      | -13.00      | 48.28       | 235         | 76        | Vertical |
| 3               | 2812.3600       | 50.44                | -113.60     | -63.16      | -13.00      | 50.16       | 184         | 267       | Vertical |
| 4               | 3515.4500       | 51.32                | -112.23     | -60.91      | -13.00      | 47.91       | 196         | 126       | Vertical |
| 5               | 4218.5400       | 50.71                | -110.05     | -59.34      | -13.00      | 46.34       | 170         | 267       | Vertical |
| 6               | 4921.6300       | 50.09                | -108.23     | -58.14      | -13.00      | 45.14       | 222         | 228       | Vertical |

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 Rev.: 01  
 Page: 41 of 42

**Test Band = \_Band12 TM1**

**Test Channel = High**

| Final Data List |                 |                      |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dB $\mu$ V] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 1413.1429       | 55.90                | -117.70     | -61.80      | -13.00      | 48.80       | 159         | 171       | Horizontal |
| 2               | 2119.7700       | 58.71                | -115.90     | -57.19      | -13.00      | 44.19       | 184         | 323       | Horizontal |
| 3               | 2826.3600       | 50.61                | -113.49     | -62.88      | -13.00      | 49.88       | 172         | 58        | Horizontal |
| 4               | 3532.9500       | 50.06                | -112.18     | -62.12      | -13.00      | 49.12       | 233         | 21        | Horizontal |
| 5               | 4239.5400       | 50.22                | -109.97     | -59.75      | -13.00      | 46.75       | 260         | 97        | Horizontal |
| 6               | 4946.1300       | 49.81                | -108.22     | -58.41      | -13.00      | 45.41       | 141         | 357       | Horizontal |

| Final Data List |                 |                      |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dB $\mu$ V] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1413.1800       | 59.71                | -117.70     | -57.99      | -13.00      | 44.99       | 213         | 128       | Vertical |
| 2               | 2119.7700       | 59.44                | -115.90     | -56.46      | -13.00      | 43.46       | 236         | 255       | Vertical |
| 3               | 2826.3600       | 53.03                | -113.49     | -60.46      | -13.00      | 47.46       | 207         | 115       | Vertical |
| 4               | 3532.9500       | 50.21                | -112.18     | -61.97      | -13.00      | 48.97       | 148         | 330       | Vertical |
| 5               | 4239.5400       | 49.48                | -109.97     | -60.49      | -13.00      | 47.49       | 196         | 90        | Vertical |
| 6               | 4946.1300       | 50.15                | -108.22     | -58.07      | -13.00      | 45.07       | 270         | 360       | Vertical |

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 Rev.: 01  
 Page: 42 of 42

## Frequency Stability

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | VL            | NT               | -8.20          | -0.011590       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | VN            | NT               | -5.80          | -0.008198       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | VH            | NT               | -7.10          | -0.010035       | PASS    |

| Band   | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|--------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | -30              | -8.40          | -0.011873       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | -20              | -7.90          | -0.011166       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | -10              | -7.40          | -0.010459       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | 0                | -7.40          | -0.010459       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | 10               | -6.20          | -0.008763       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | 20               | -5.70          | -0.008057       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | 30               | -10.60         | -0.014982       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | 40               | -5.40          | -0.007633       | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | 50               | -6.10          | -0.008622       | PASS    |

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