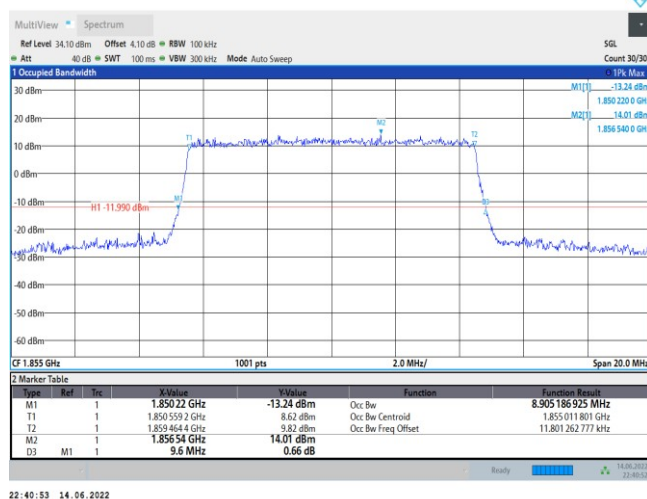
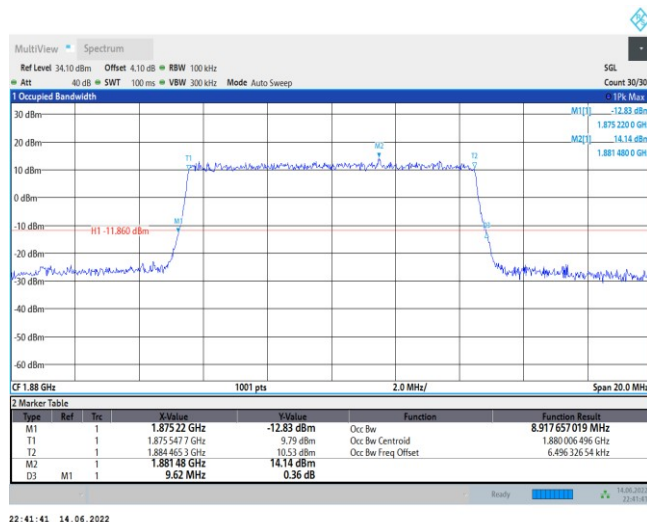


Band2-10MHz-16QAM-18650-50RB#0



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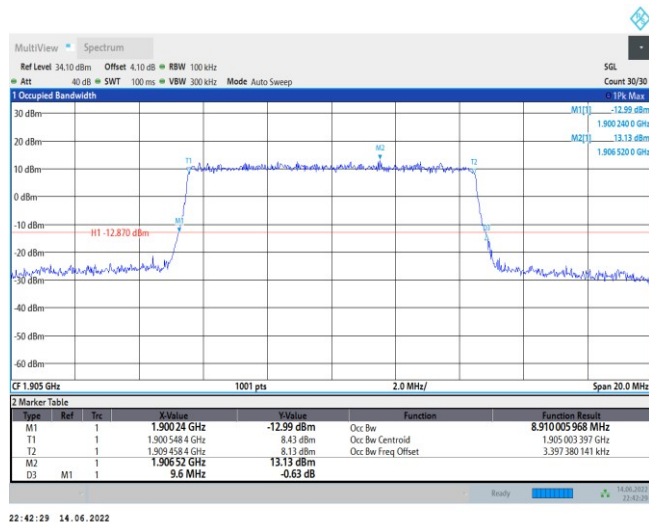


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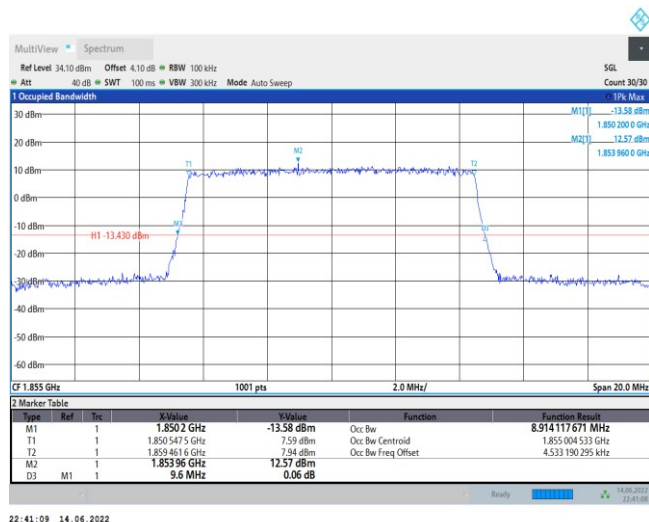
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Band2-10MHz-16QAM-19150-50RB#0



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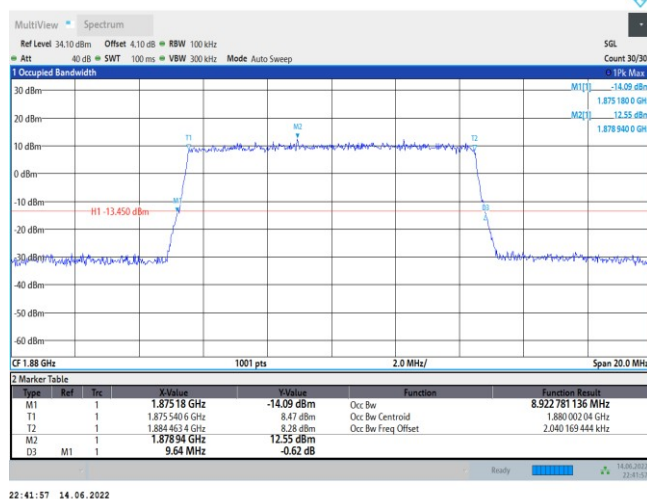


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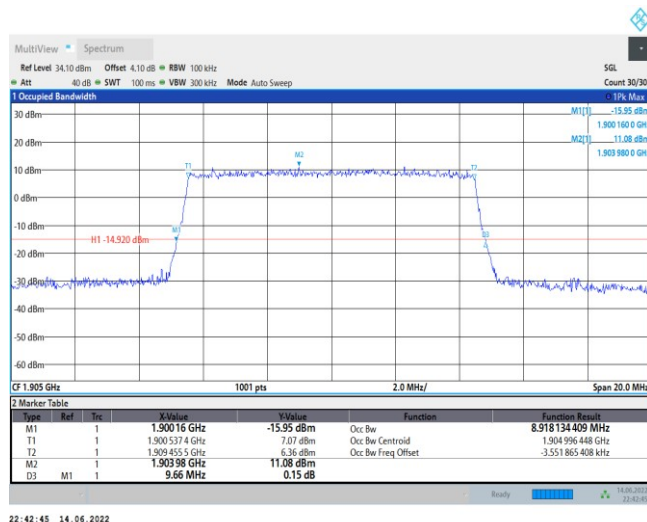
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Band2-10MHz-64QAM-18900-50RB#0



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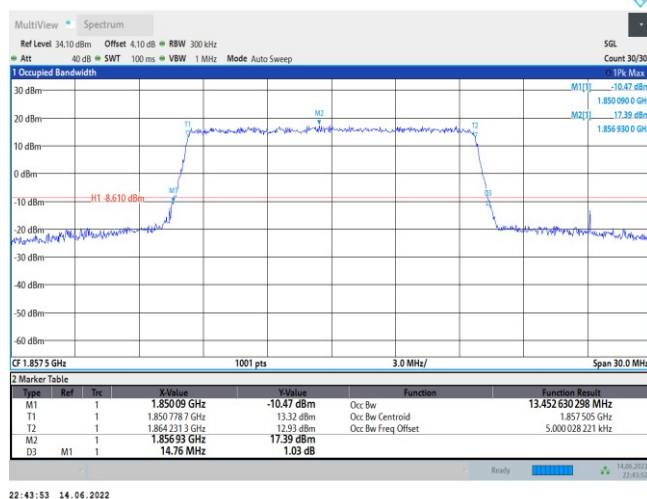


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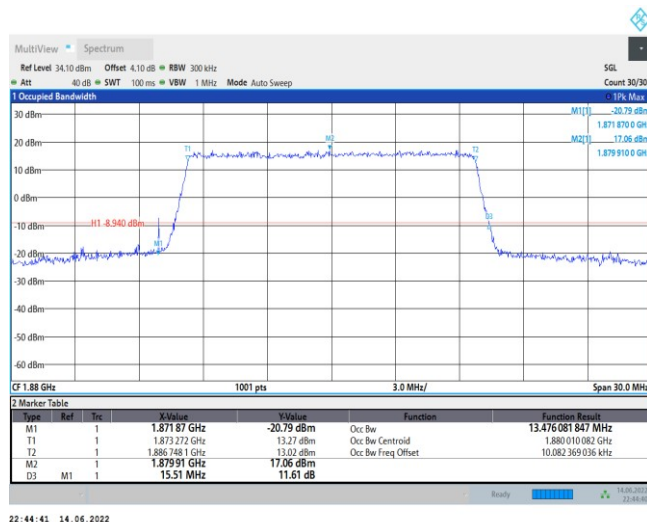
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Band2-15MHz-QPSK-18675-75RB#0



## Band2-15MHz-QPSK-18900-75RB#0



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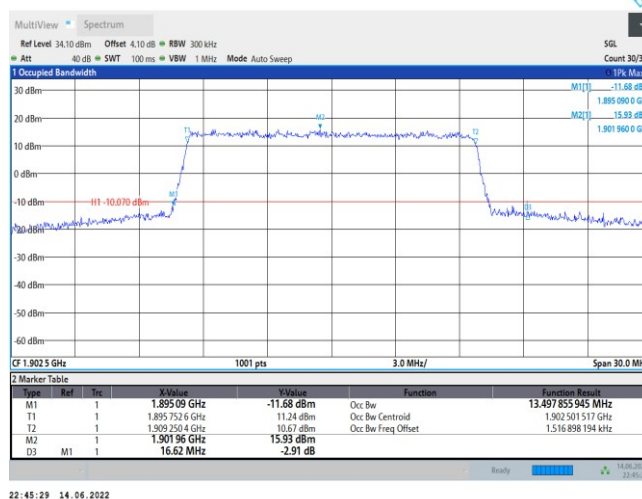
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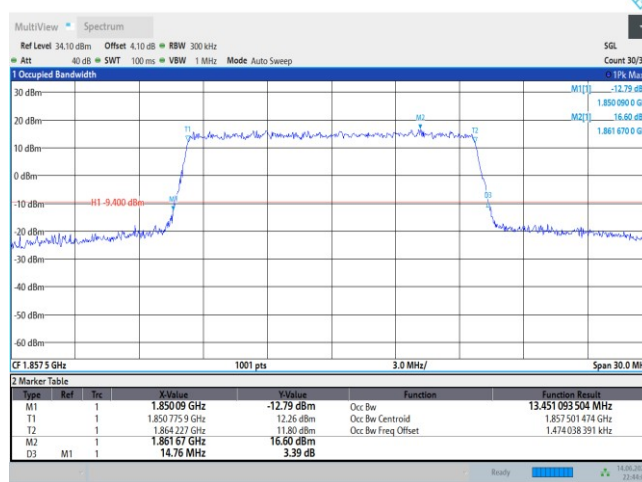
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### Band2-15MHz-QPSK-19125-75RB#0



22:45:29 14.06.2022

### Band2-15MHz-16QAM-18675-75RB#0



22:44:09 14.06.2022



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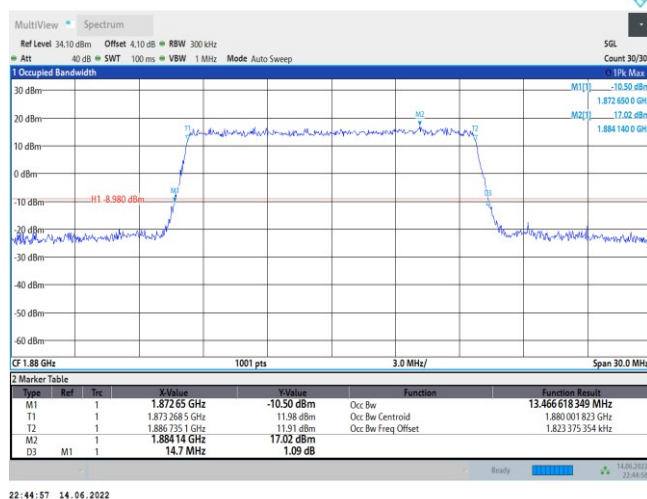
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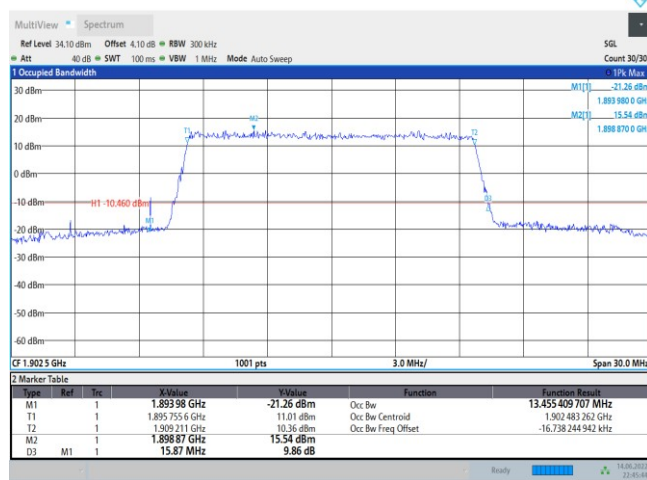
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### Band2-15MHz-16QAM-18900-75RB#0



22:44:57 14.06.2022

### Band2-15MHz-16QAM-19125-75RB#0



22:45:45 14.06.2022



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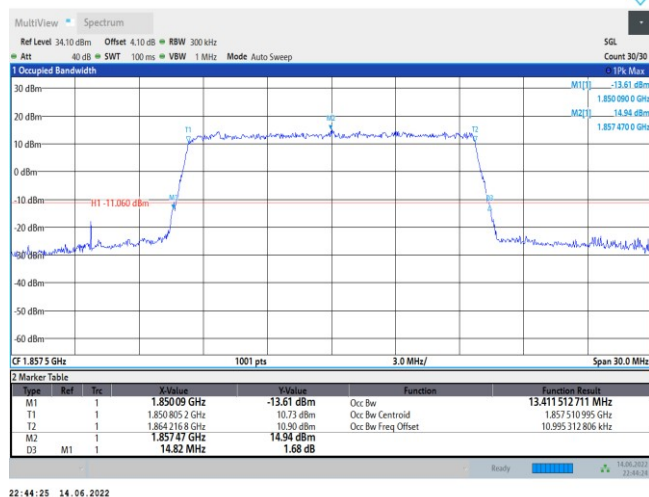
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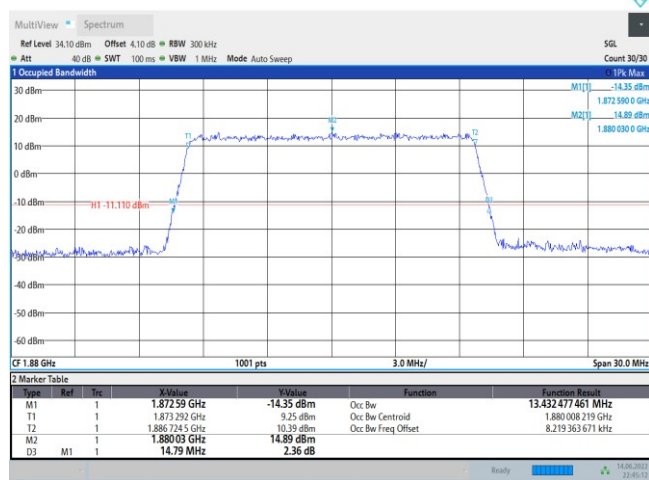
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### Band2-15MHz-64QAM-18675-75RB#0



22:44:25 14.06.2022

### Band2-15MHz-64QAM-18900-75RB#0



22:45:13 14.06.2022



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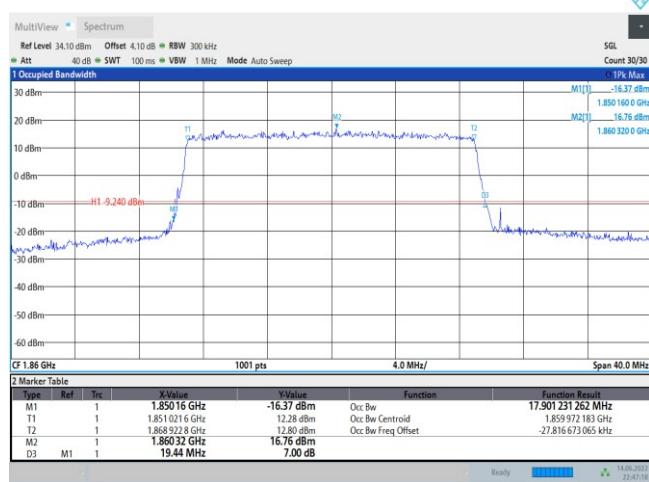
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## Band2-15MHz-64QAM-19125-75RB#0



22:46:01 14.06.2022

## Band2-20MHz-QPSK-18700-100RB#0



22:47:19 14.06.2022



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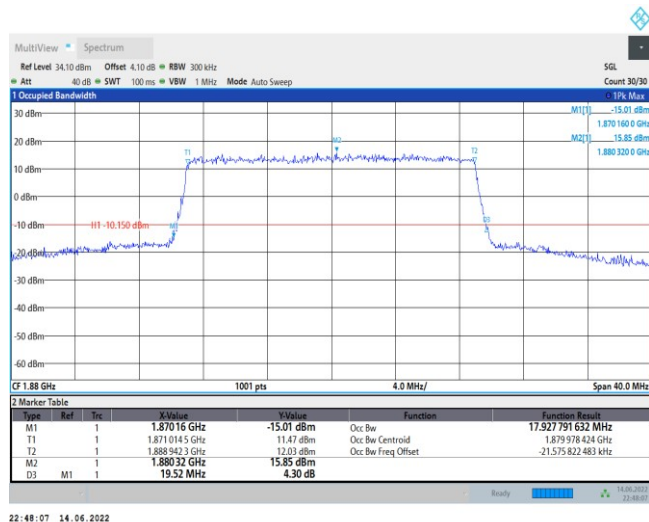
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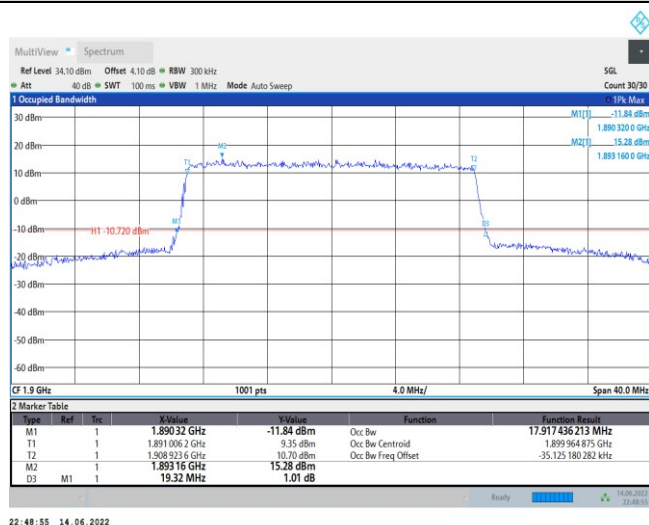
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## Band2-20MHz-QPSK-19100-100RB#0



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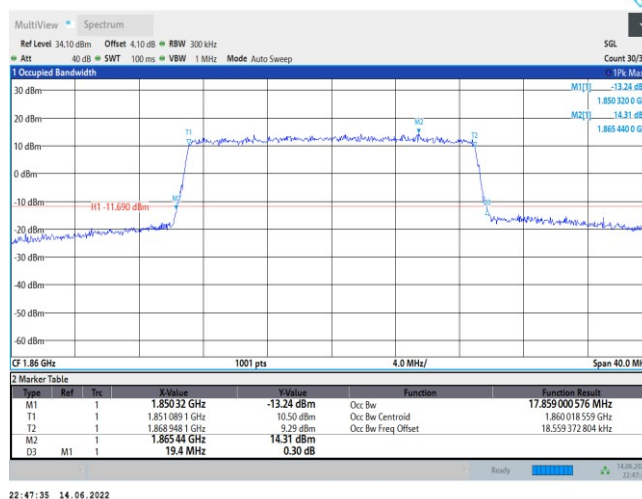
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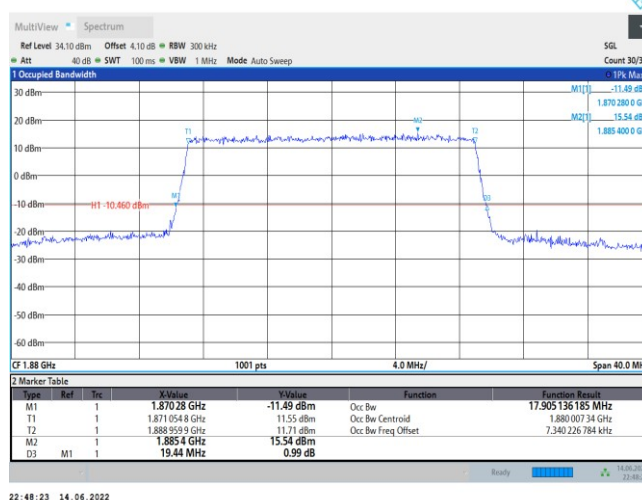
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### Band2-20MHz-16QAM-18700-100RB#0



22:47:35 14.06.2022

### Band2-20MHz-16QAM-18900-100RB#0



22:48:23 14.06.2022



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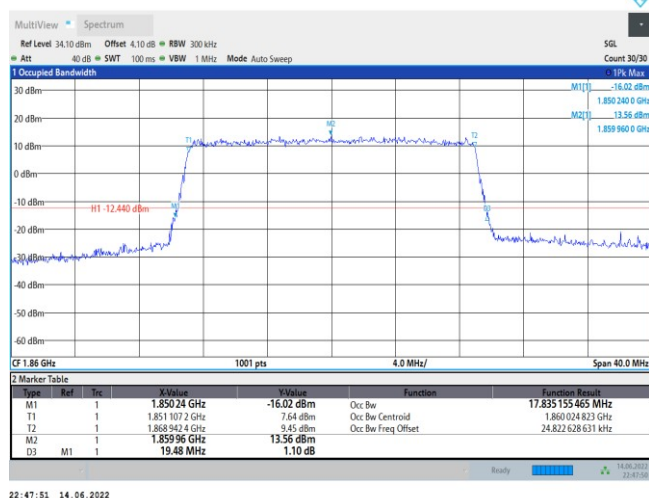
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### Band2-20MHz-16QAM-19100-100RB#0



22:49:11 14.06.2022

### Band2-20MHz-64QAM-18700-100RB#0



22:47:51 14.06.2022



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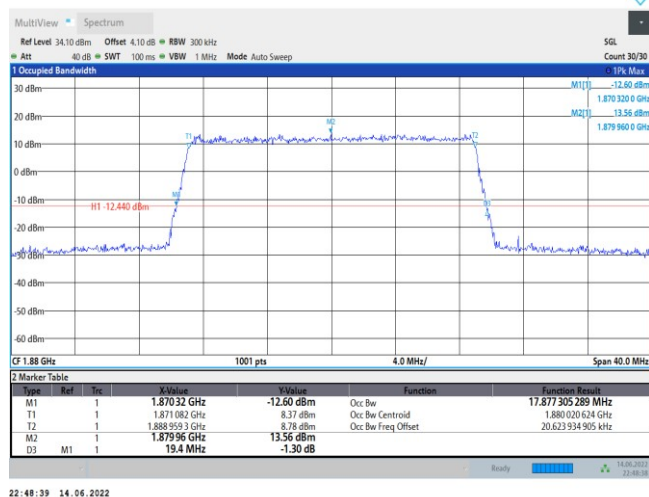
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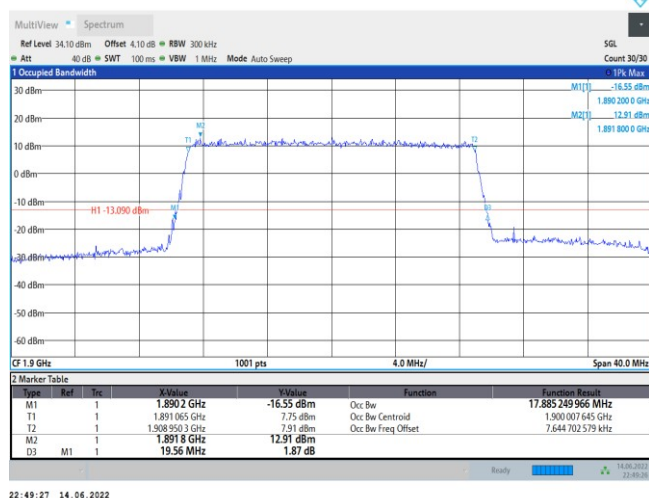
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## Band2-20MHz-64QAM-18900-100RB#0



22:48:39 14.06.2022

## Band2-20MHz-64QAM-19100-100RB#0



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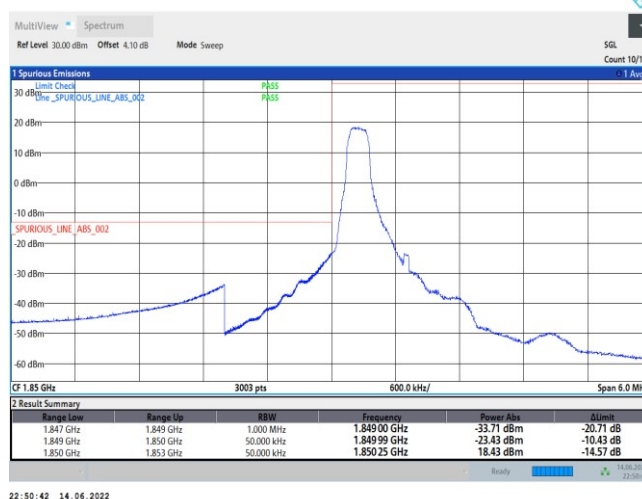
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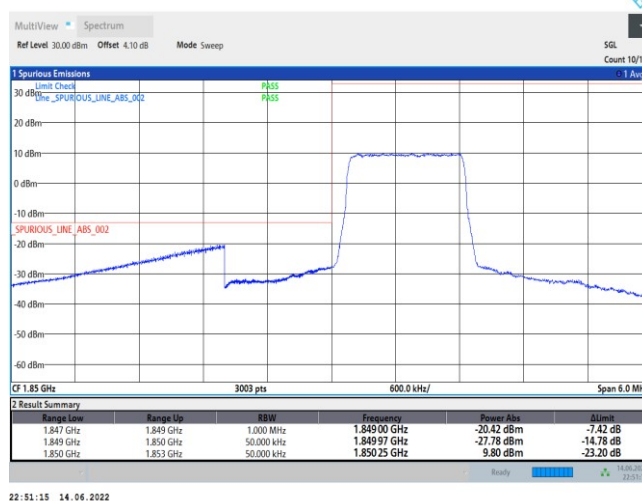
## Band Edge

## Test Graphs

Band2-1.4MHz-QPSK-18607-1RB#0



Band2-1.4MHz-QPSK-18607-6RB#0



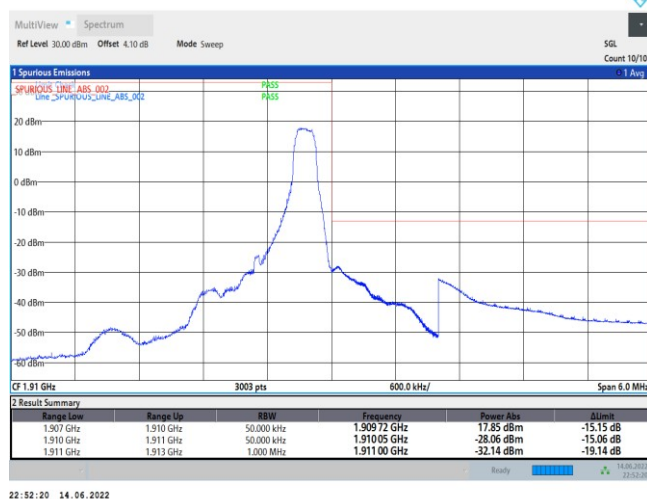
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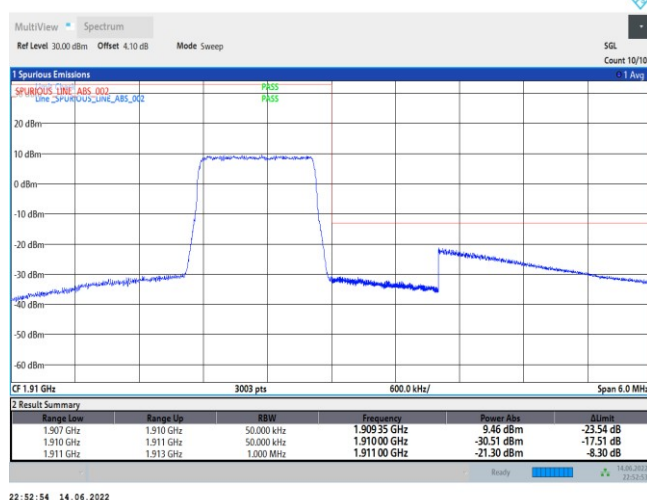
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## Band2-1.4MHz-QPSK-19193-1RB#5



## Band2-1.4MHz-QPSK-19193-6RB#0



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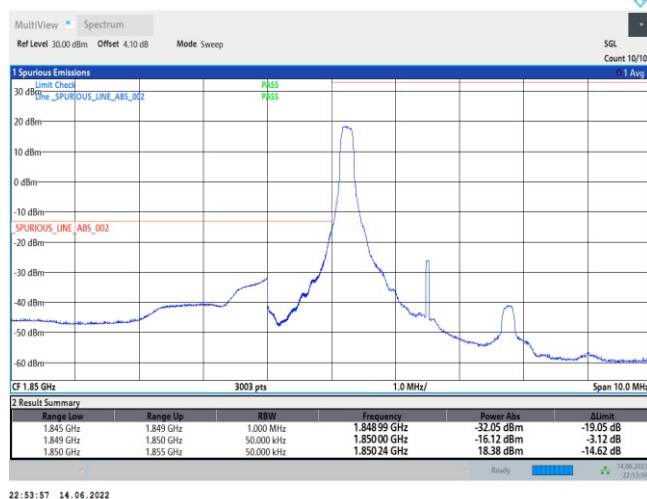
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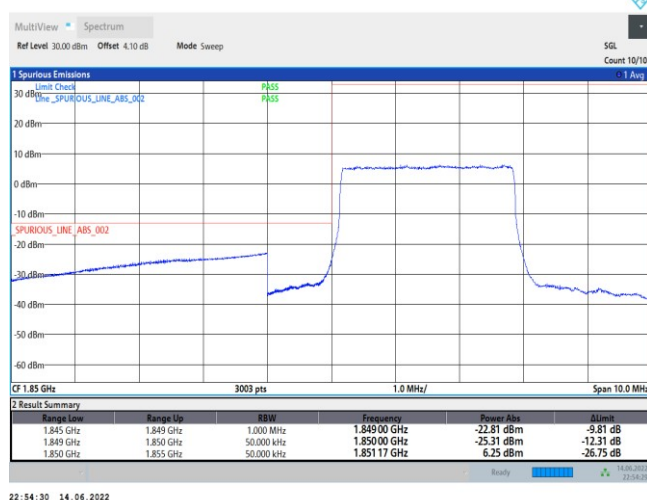
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### Band2-3MHz-QPSK-18615-1RB#0



### Band2-3MHz-QPSK-18615-15RB#0



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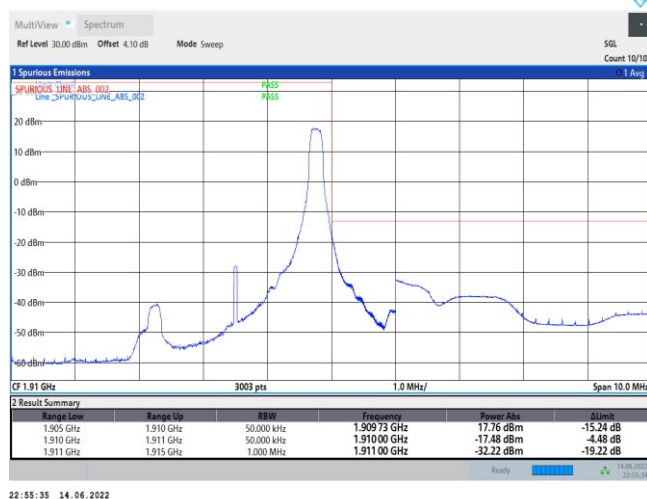
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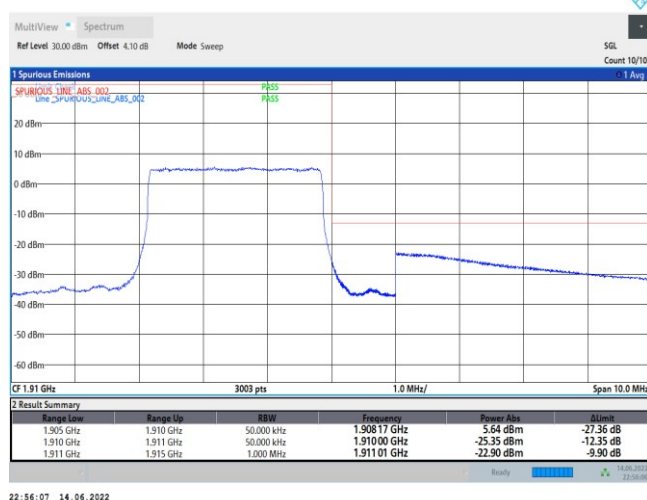
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### Band2-3MHz-QPSK-19185-1RB#14



### Band2-3MHz-QPSK-19185-15RB#0



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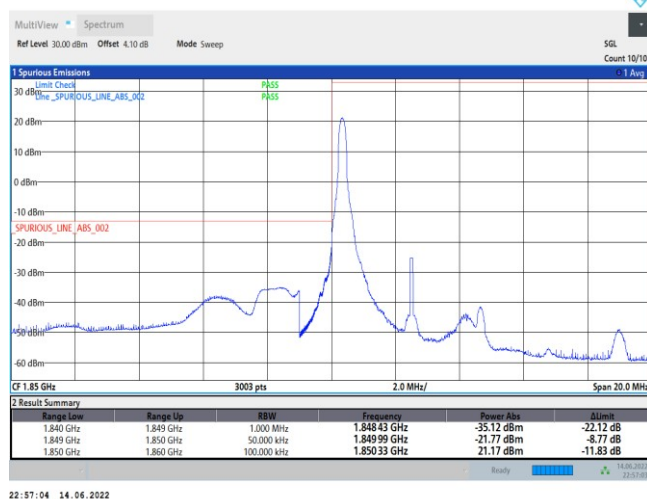
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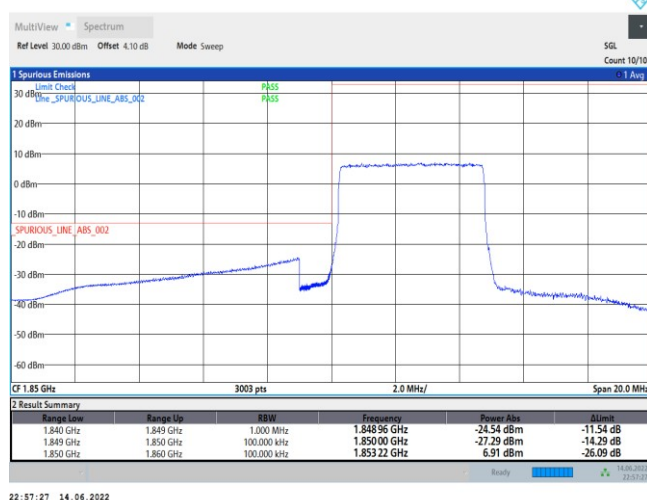
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## Band2-5MHz-QPSK-18625-1RB#0



## Band2-5MHz-QPSK-18625-25RB#0



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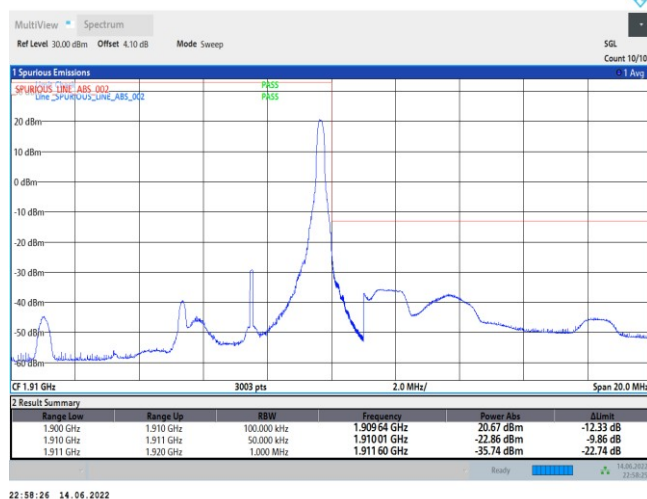
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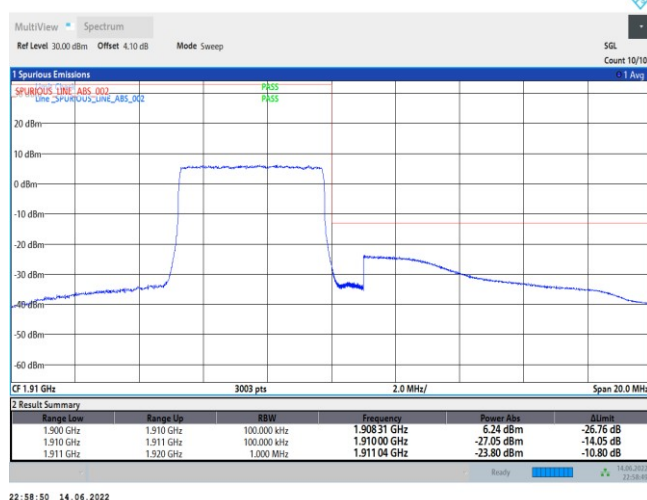
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## Band2-5MHz-QPSK-19175-1RB#24



## Band2-5MHz-QPSK-19175-25RB#0



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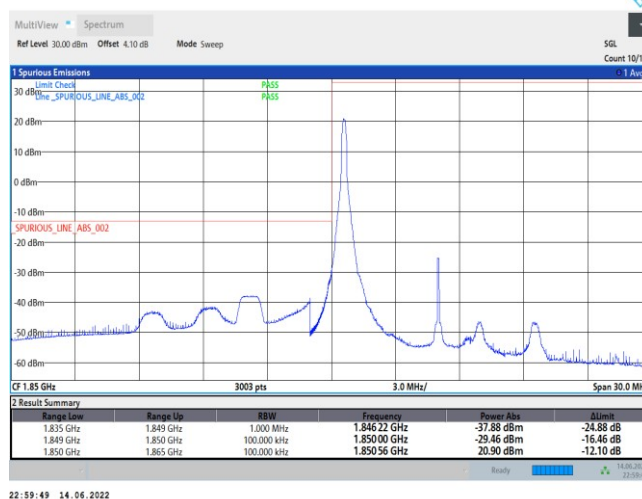
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### Band2-10MHz-QPSK-18650-1RB#0



### Band2-10MHz-QPSK-18650-50RB#0



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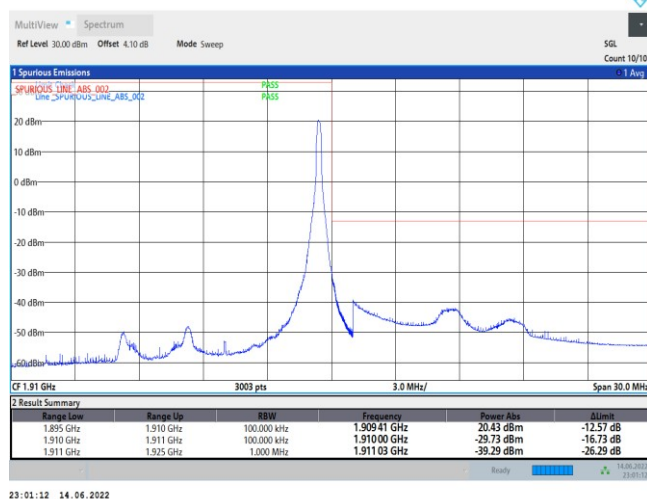
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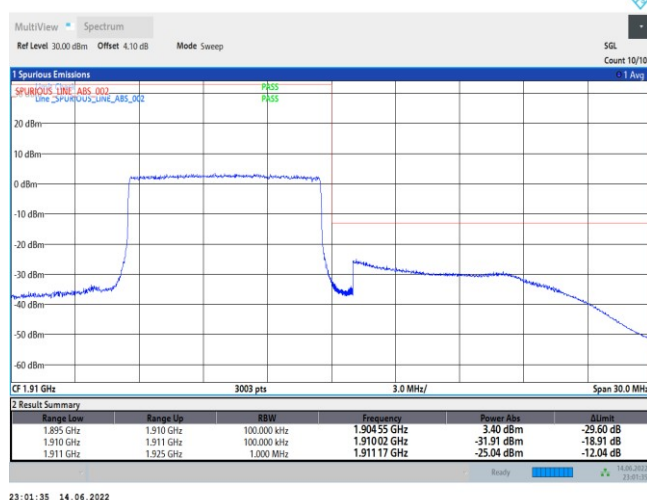
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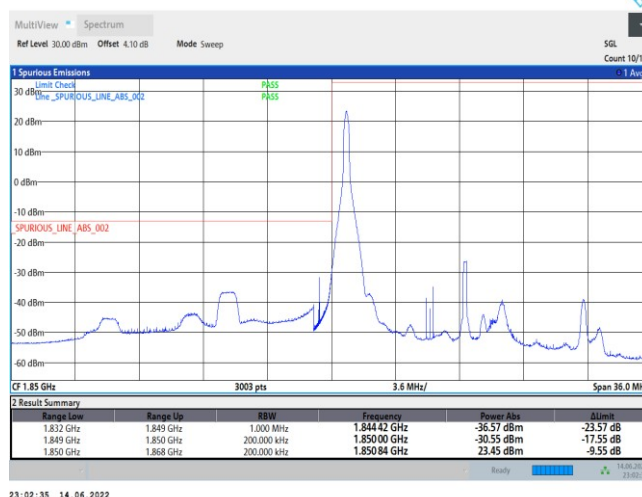
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## Band2-15MHz-QPSK-18675-1RB#0



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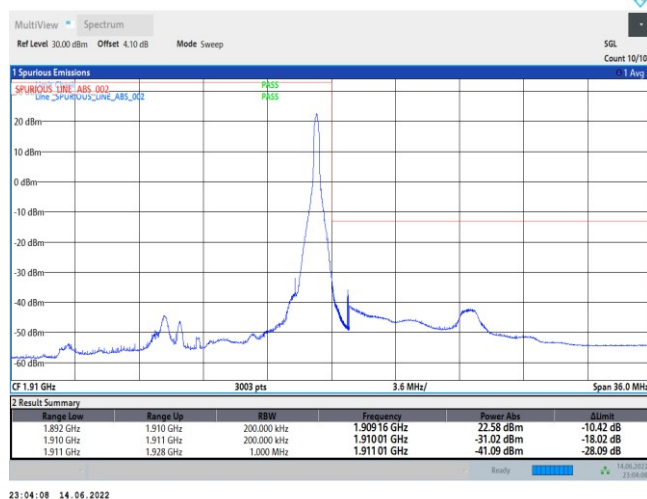
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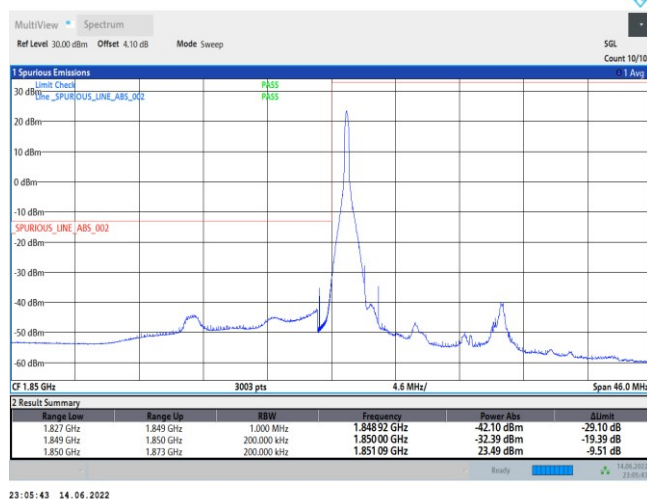
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### Band2-20MHz-QPSK-18700-100RB#0



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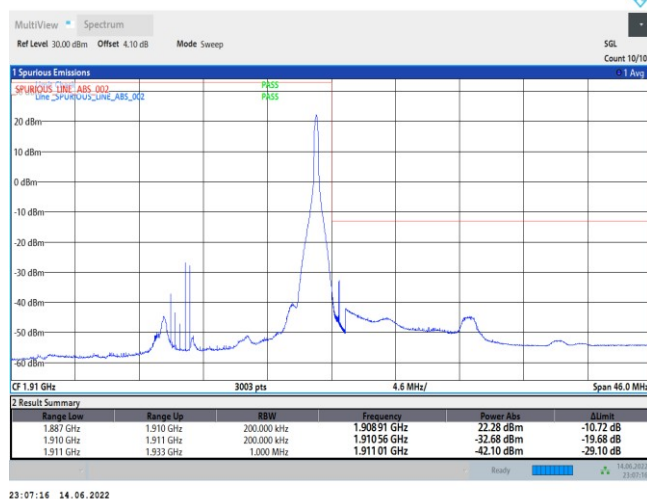
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### Band2-20MHz-QPSK-19100-1RB#99



### Band2-20MHz-QPSK-19100-100RB#0



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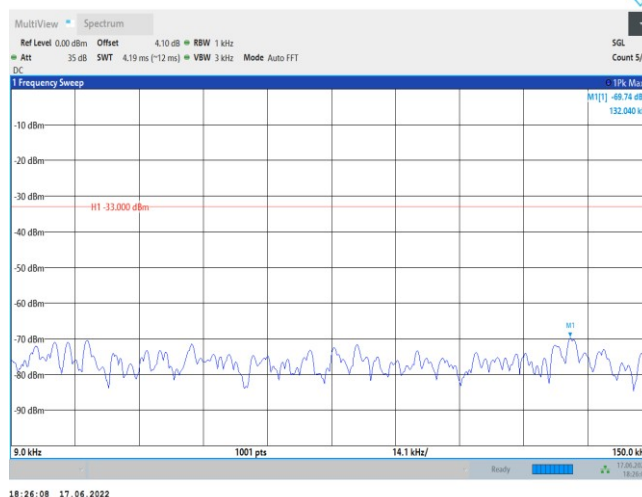
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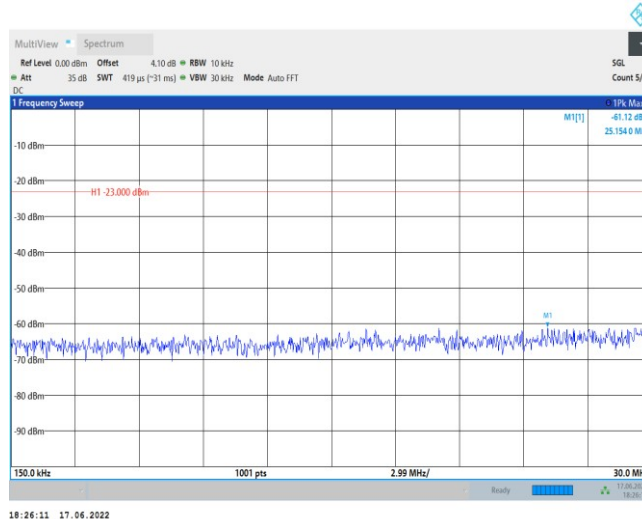
## Conducted Spurious Emission

### Test Graphs

Band2-20MHz-QPSK-18700-1RB#0-Range1:0.009~0.15MHz



Band2-20MHz-QPSK-18700-1RB#0-Range2:0.15~30MHz



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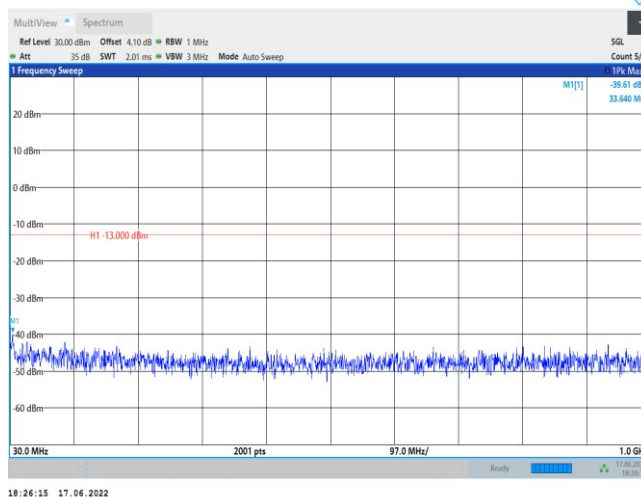
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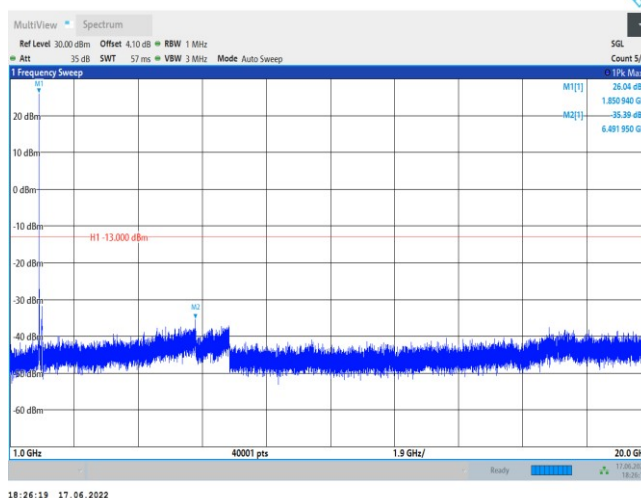
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### Band2-20MHz-QPSK-18700-1RB#0-Range3:30~1000MHz



### Band2-20MHz-QPSK-18700-1RB#0-Range4:1000~20000MHz



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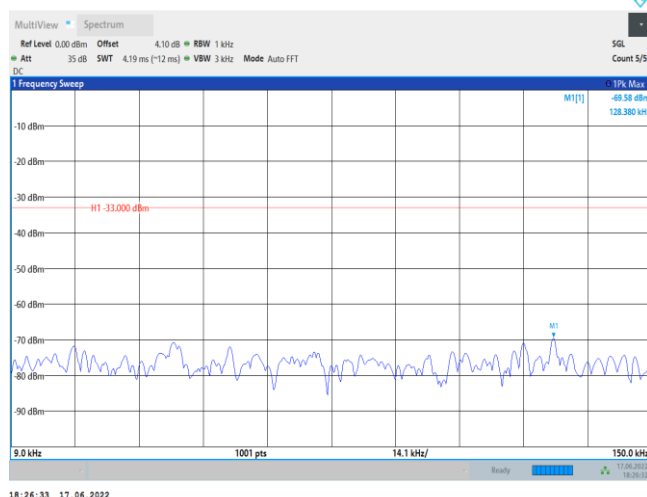
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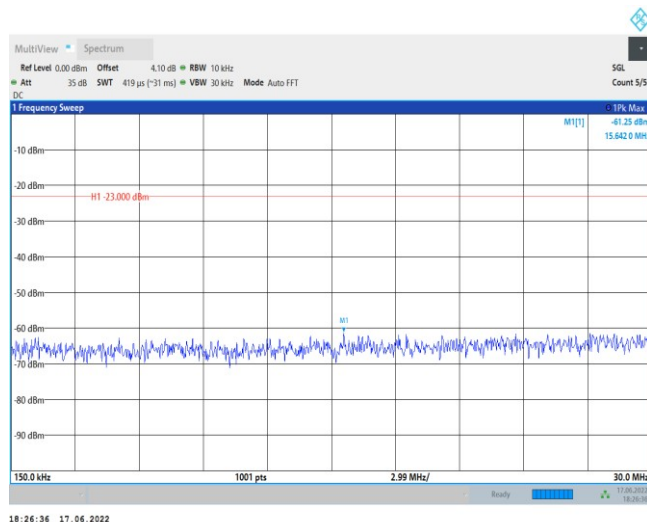
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## Band2-20MHz-QPSK-18900-1RB#0-Range1:0.009~0.15MHz



## Band2-20MHz-QPSK-18900-1RB#0-Range2:0.15~30MHz



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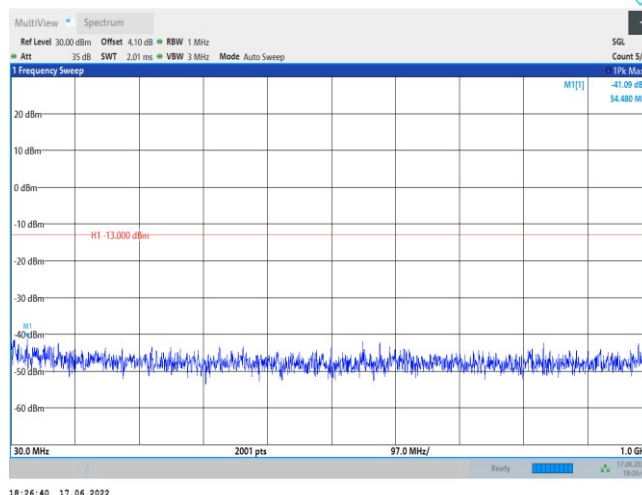
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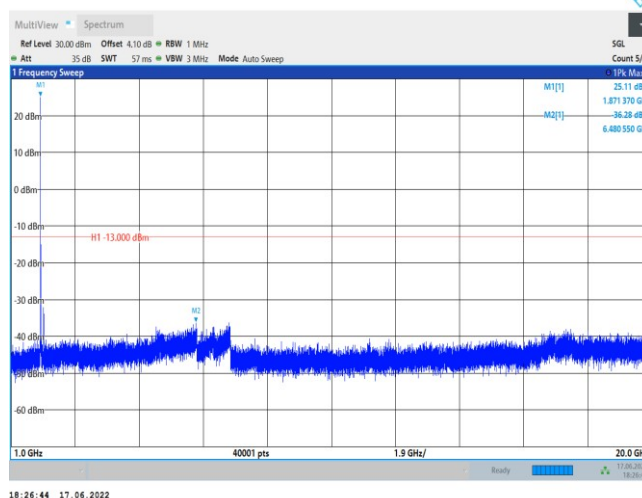
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## Band2-20MHz-QPSK-18900-1RB#0-Range3:30~1000MHz



## Band2-20MHz-QPSK-18900-1RB#0-Range4:1000~20000MHz



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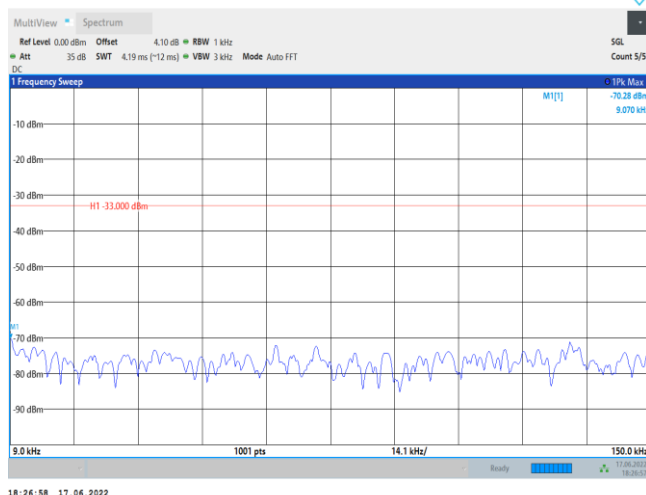
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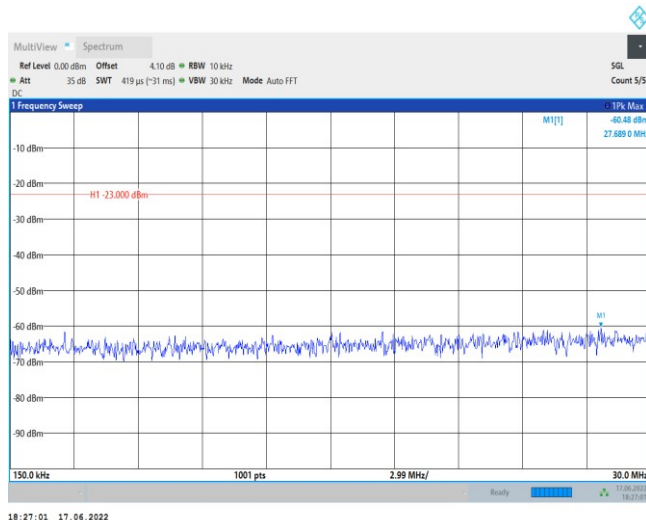
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## Band2-20MHz-QPSK-19100-1RB#0-Range1:0.009~0.15MHz



## Band2-20MHz-QPSK-19100-1RB#0-Range2:0.15~30MHz



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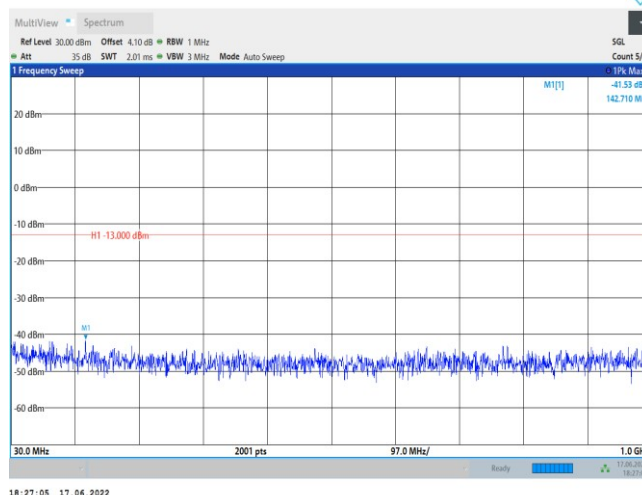
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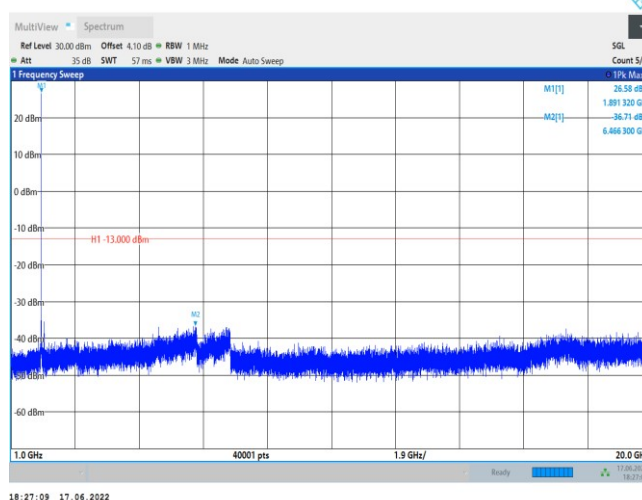
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## Band2-20MHz-QPSK-19100-1RB#0-Range3:30~1000MHz



## Band2-20MHz-QPSK-19100-1RB#0-Range4:1000~20000MHz



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## Field Strength of Spurious Radiation

Test Band = LTE Band 2\_ TM1

Test Channel = Low

| Final Data List |                 |                |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 3702.1800       | 50.17          | -110.79     | -60.62      | -13.00      | 47.62       | 194         | 242       | Horizontal |
| 2               | 5553.2700       | 48.76          | -107.44     | -58.68      | -13.00      | 45.68       | 234         | 14        | Horizontal |
| 3               | 7404.3600       | 48.56          | -102.17     | -53.61      | -13.00      | 40.61       | 284         | 59        | Horizontal |
| 4               | 9255.4500       | 43.25          | -97.11      | -53.86      | -13.00      | 40.86       | 267         | 75        | Horizontal |
| 5               | 11106.5400      | 41.90          | -94.10      | -52.20      | -13.00      | 39.20       | 137         | 345       | Horizontal |
| 6               | 12957.6300      | 38.93          | -92.71      | -53.78      | -13.00      | 40.78       | 167         | 287       | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 3702.1800       | 49.73          | -110.79     | -61.06      | -13.00      | 48.06       | 167         | 165       | Vertical |
| 2               | 5553.2700       | 48.30          | -107.44     | -59.14      | -13.00      | 46.14       | 134         | 284       | Vertical |
| 3               | 7404.3600       | 47.71          | -102.17     | -54.46      | -13.00      | 41.46       | 284         | 360       | Vertical |
| 4               | 9255.4500       | 45.60          | -97.11      | -51.51      | -13.00      | 38.51       | 237         | 14        | Vertical |
| 5               | 11106.5400      | 48.46          | -94.10      | -45.64      | -13.00      | 32.64       | 173         | 73        | Vertical |
| 6               | 12957.6300      | 38.09          | -92.71      | -54.62      | -13.00      | 41.62       | 294         | 118       | Vertical |



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**Test Band = LTE Band 2\_ TM1**

**Test Channel = Mid**

| Final Data List |                 |                |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 3742.1800       | 50.32          | -110.82     | -60.50      | -13.00      | 47.50       | 164         | 347       | Horizontal |
| 2               | 5613.2700       | 48.31          | -107.23     | -58.92      | -13.00      | 45.92       | 134         | 360       | Horizontal |
| 3               | 7484.3600       | 45.78          | -101.99     | -56.21      | -13.00      | 43.21       | 197         | 122       | Horizontal |
| 4               | 9355.4500       | 43.98          | -96.81      | -52.83      | -13.00      | 39.83       | 264         | 76        | Horizontal |
| 5               | 11226.5400      | 40.92          | -93.55      | -52.63      | -13.00      | 39.63       | 294         | 61        | Horizontal |
| 6               | 13097.6300      | 37.65          | -92.39      | -54.74      | -13.00      | 41.74       | 291         | 360       | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 3742.1800       | 50.58          | -110.82     | -60.24      | -13.00      | 47.24       | 149         | 157       | Vertical |
| 2               | 5613.2700       | 48.33          | -107.23     | -58.90      | -13.00      | 45.90       | 134         | 3         | Vertical |
| 3               | 7484.3600       | 47.09          | -101.99     | -54.90      | -13.00      | 41.90       | 162         | 238       | Vertical |
| 4               | 9355.4500       | 44.38          | -96.81      | -52.43      | -13.00      | 39.43       | 294         | 357       | Vertical |
| 5               | 11226.5400      | 46.91          | -93.55      | -46.64      | -13.00      | 33.64       | 237         | 90        | Vertical |
| 6               | 13097.6300      | 37.39          | -92.39      | -55.00      | -13.00      | 42.00       | 261         | 357       | Vertical |



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**Test Band = LTE Band 2\_ TM1**

**Test Channel = High**

| Final Data List |                 |                |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 3782.1800       | 51.71          | -110.84     | -59.13      | -13.00      | 46.13       | 234         | 345       | Horizontal |
| 2               | 5673.2700       | 48.04          | -106.88     | -58.84      | -13.00      | 45.84       | 291         | 120       | Horizontal |
| 3               | 7564.3600       | 45.81          | -101.86     | -56.05      | -13.00      | 43.05       | 137         | 302       | Horizontal |
| 4               | 9455.4500       | 41.57          | -96.84      | -55.27      | -13.00      | 42.27       | 134         | 360       | Horizontal |
| 5               | 11346.5400      | 41.82          | -93.55      | -51.73      | -13.00      | 38.73       | 167         | 29        | Horizontal |
| 6               | 13237.6300      | 37.07          | -92.37      | -55.30      | -13.00      | 42.30       | 194         | 60        | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 3782.1800       | 50.88          | -110.84     | -59.96      | -13.00      | 46.96       | 261         | 90        | Vertical |
| 2               | 5673.2700       | 48.73          | -106.88     | -58.15      | -13.00      | 45.15       | 271         | 164       | Vertical |
| 3               | 7564.3600       | 48.49          | -101.86     | -53.37      | -13.00      | 40.37       | 134         | 357       | Vertical |
| 4               | 9455.4500       | 45.04          | -96.84      | -51.80      | -13.00      | 38.80       | 138         | 59        | Vertical |
| 5               | 11346.5400      | 43.76          | -93.55      | -49.79      | -13.00      | 36.79       | 164         | 285       | Vertical |
| 6               | 13237.6300      | 36.80          | -92.37      | -55.57      | -13.00      | 42.57       | 297         | 133       | Vertical |

Remark:

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

Level = Reading Level(dBμV) + Factor(dB):

Factor = AF(dB/m) + Cable Factor(dB) - Preamplifier gain(dB)

AF = Antenna Factor(dB/m)

Margin = Limit(dBm) – Level(dBm)



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## Frequency Stability

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | VL            | NT               | 6.30           | 0.003351        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | VN            | NT               | -3.20          | -0.001702       | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | VH            | NT               | -8.70          | -0.004628       | PASS    |

| Band  | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | -30              | 1.20           | 0.000638        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | -20              | 5.10           | 0.002713        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | -10              | 8.70           | 0.004628        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 0                | 1.70           | 0.000904        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 10               | 1.40           | 0.000745        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 20               | 7.90           | 0.004202        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 30               | -1.00          | -0.000532       | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 40               | -4.60          | -0.002447       | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 50               | 3.80           | 0.002021        | PASS    |

The End



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