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# Appendix B.8

## LTE Band 13



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t (86-512) 62992980 sgs.china@sgs.com

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## Effective (Isotropic) Radiated Power Output Data

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result (dBm) | ERP (dBm) | Limit (dBm) | Verdict |
|--------|-----------|------------|---------|------------------|--------------|-----------|-------------|---------|
| Band13 | 5MHz      | QPSK       | 23205   | 1RB#0            | 23.50        | 18.17     | 34.77       | PASS    |
| Band13 | 5MHz      | QPSK       | 23205   | 1RB#12           | 23.81        | 18.48     | 34.77       | PASS    |
| Band13 | 5MHz      | QPSK       | 23205   | 1RB#24           | 23.43        | 18.10     | 34.77       | PASS    |
| Band13 | 5MHz      | QPSK       | 23205   | 25RB#0           | 22.60        | 17.27     | 34.77       | PASS    |
| Band13 | 5MHz      | QPSK       | 23230   | 1RB#0            | 23.62        | 18.29     | 34.77       | PASS    |
| Band13 | 5MHz      | QPSK       | 23230   | 1RB#12           | 23.84        | 18.51     | 34.77       | PASS    |
| Band13 | 5MHz      | QPSK       | 23230   | 1RB#24           | 23.47        | 18.14     | 34.77       | PASS    |
| Band13 | 5MHz      | QPSK       | 23230   | 25RB#0           | 22.67        | 17.34     | 34.77       | PASS    |
| Band13 | 5MHz      | QPSK       | 23255   | 1RB#0            | 23.54        | 18.21     | 34.77       | PASS    |
| Band13 | 5MHz      | QPSK       | 23255   | 1RB#12           | 23.75        | 18.42     | 34.77       | PASS    |
| Band13 | 5MHz      | QPSK       | 23255   | 1RB#24           | 23.48        | 18.15     | 34.77       | PASS    |
| Band13 | 5MHz      | QPSK       | 23255   | 25RB#0           | 22.64        | 17.31     | 34.77       | PASS    |
| Band13 | 5MHz      | 16QAM      | 23205   | 1RB#0            | 22.75        | 17.42     | 34.77       | PASS    |
| Band13 | 5MHz      | 16QAM      | 23205   | 1RB#12           | 23.07        | 17.74     | 34.77       | PASS    |
| Band13 | 5MHz      | 16QAM      | 23205   | 1RB#24           | 22.63        | 17.30     | 34.77       | PASS    |
| Band13 | 5MHz      | 16QAM      | 23205   | 25RB#0           | 21.67        | 16.34     | 34.77       | PASS    |
| Band13 | 5MHz      | 16QAM      | 23230   | 1RB#0            | 22.89        | 17.56     | 34.77       | PASS    |
| Band13 | 5MHz      | 16QAM      | 23230   | 1RB#12           | 23.11        | 17.78     | 34.77       | PASS    |
| Band13 | 5MHz      | 16QAM      | 23230   | 1RB#24           | 22.78        | 17.45     | 34.77       | PASS    |
| Band13 | 5MHz      | 16QAM      | 23230   | 25RB#0           | 21.74        | 16.41     | 34.77       | PASS    |
| Band13 | 5MHz      | 16QAM      | 23255   | 1RB#0            | 22.76        | 17.43     | 34.77       | PASS    |
| Band13 | 5MHz      | 16QAM      | 23255   | 1RB#12           | 23.08        | 17.75     | 34.77       | PASS    |
| Band13 | 5MHz      | 16QAM      | 23255   | 1RB#24           | 22.67        | 17.34     | 34.77       | PASS    |
| Band13 | 5MHz      | 16QAM      | 23255   | 25RB#0           | 21.71        | 16.38     | 34.77       | PASS    |



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|        |       |       |       |        |       |       |       |      |
|--------|-------|-------|-------|--------|-------|-------|-------|------|
| Band13 | 5MHz  | 64QAM | 23205 | 1RB#0  | 21.76 | 16.43 | 34.77 | PASS |
| Band13 | 5MHz  | 64QAM | 23205 | 1RB#12 | 21.99 | 16.66 | 34.77 | PASS |
| Band13 | 5MHz  | 64QAM | 23205 | 1RB#24 | 21.67 | 16.34 | 34.77 | PASS |
| Band13 | 5MHz  | 64QAM | 23205 | 25RB#0 | 20.68 | 15.35 | 34.77 | PASS |
| Band13 | 5MHz  | 64QAM | 23230 | 1RB#0  | 21.91 | 16.58 | 34.77 | PASS |
| Band13 | 5MHz  | 64QAM | 23230 | 1RB#12 | 22.10 | 16.77 | 34.77 | PASS |
| Band13 | 5MHz  | 64QAM | 23230 | 1RB#24 | 21.74 | 16.41 | 34.77 | PASS |
| Band13 | 5MHz  | 64QAM | 23230 | 25RB#0 | 20.76 | 15.43 | 34.77 | PASS |
| Band13 | 5MHz  | 64QAM | 23255 | 1RB#0  | 21.85 | 16.52 | 34.77 | PASS |
| Band13 | 5MHz  | 64QAM | 23255 | 1RB#12 | 21.97 | 16.64 | 34.77 | PASS |
| Band13 | 5MHz  | 64QAM | 23255 | 1RB#24 | 21.73 | 16.40 | 34.77 | PASS |
| Band13 | 5MHz  | 64QAM | 23255 | 25RB#0 | 20.71 | 15.38 | 34.77 | PASS |
| Band13 | 10MHz | QPSK  | 23230 | 1RB#0  | 23.77 | 18.44 | 34.77 | PASS |
| Band13 | 10MHz | QPSK  | 23230 | 1RB#24 | 23.80 | 18.47 | 34.77 | PASS |
| Band13 | 10MHz | QPSK  | 23230 | 1RB#49 | 23.62 | 18.29 | 34.77 | PASS |
| Band13 | 10MHz | QPSK  | 23230 | 50RB#0 | 22.73 | 17.40 | 34.77 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 1RB#0  | 23.00 | 17.67 | 34.77 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 1RB#24 | 23.14 | 17.81 | 34.77 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 1RB#49 | 22.85 | 17.52 | 34.77 | PASS |
| Band13 | 10MHz | 16QAM | 23230 | 50RB#0 | 21.77 | 16.44 | 34.77 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 1RB#0  | 21.95 | 16.62 | 34.77 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 1RB#24 | 22.06 | 16.73 | 34.77 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 1RB#49 | 21.90 | 16.57 | 34.77 | PASS |
| Band13 | 10MHz | 64QAM | 23230 | 50RB#0 | 20.77 | 15.44 | 34.77 | PASS |



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## Peak-to-Average Ratio(CCDF)

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band13 | 10MHz     | QPSK       | 23230   | 50RB#0           | 5.30       | 13        | PASS    |
| Band13 | 10MHz     | 16QAM      | 23230   | 50RB#0           | 6.06       | 13        | PASS    |
| Band13 | 10MHz     | 64QAM      | 23230   | 50RB#0           | 6.46       | 13        | PASS    |



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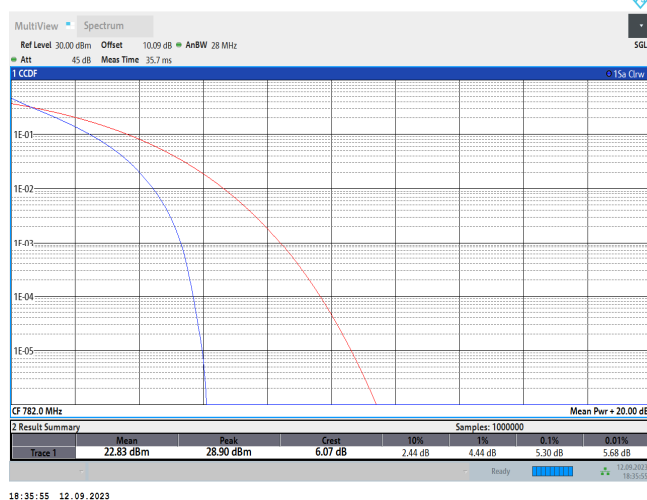
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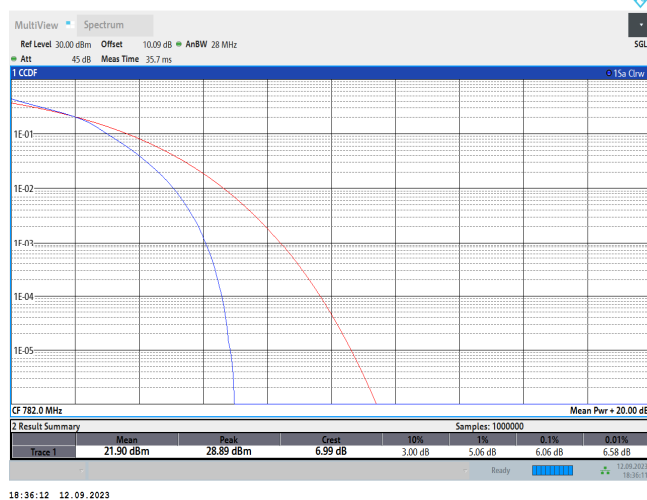
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## Test Graphs

Band13-10MHz-QPSK-23230-50RB#0



Band13-10MHz-16QAM-23230-50RB#0



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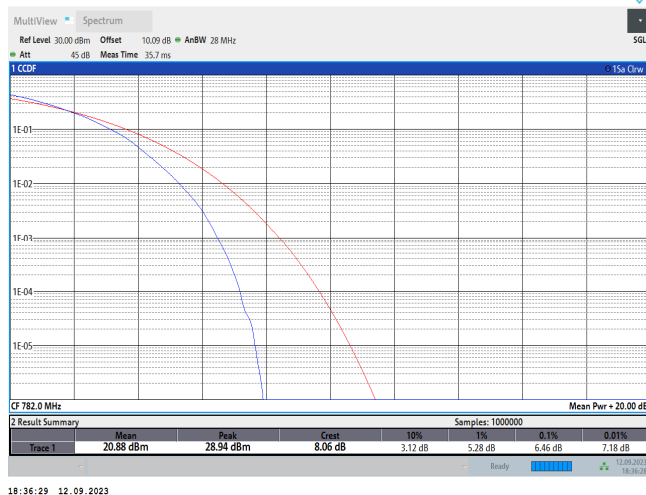
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### Band13-10MHz-64QAM-23230-50RB#0



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band13 | 5MHz      | QPSK       | 23205   | 25RB#0           | 4.472                    | 5.02                 | PASS    |
| Band13 | 5MHz      | QPSK       | 23230   | 25RB#0           | 4.473                    | 5.01                 | PASS    |
| Band13 | 5MHz      | QPSK       | 23255   | 25RB#0           | 4.473                    | 5.02                 | PASS    |
| Band13 | 5MHz      | 16QAM      | 23205   | 25RB#0           | 4.475                    | 5.05                 | PASS    |
| Band13 | 5MHz      | 16QAM      | 23230   | 25RB#0           | 4.465                    | 5.04                 | PASS    |
| Band13 | 5MHz      | 16QAM      | 23255   | 25RB#0           | 4.47                     | 5.05                 | PASS    |
| Band13 | 5MHz      | 64QAM      | 23205   | 25RB#0           | 4.486                    | 5.03                 | PASS    |
| Band13 | 5MHz      | 64QAM      | 23230   | 25RB#0           | 4.485                    | 5.05                 | PASS    |
| Band13 | 5MHz      | 64QAM      | 23255   | 25RB#0           | 4.487                    | 5.06                 | PASS    |
| Band13 | 10MHz     | QPSK       | 23230   | 50RB#0           | 8.931                    | 9.72                 | PASS    |
| Band13 | 10MHz     | 16QAM      | 23230   | 50RB#0           | 8.916                    | 9.80                 | PASS    |
| Band13 | 10MHz     | 64QAM      | 23230   | 50RB#0           | 8.93                     | 9.86                 | PASS    |



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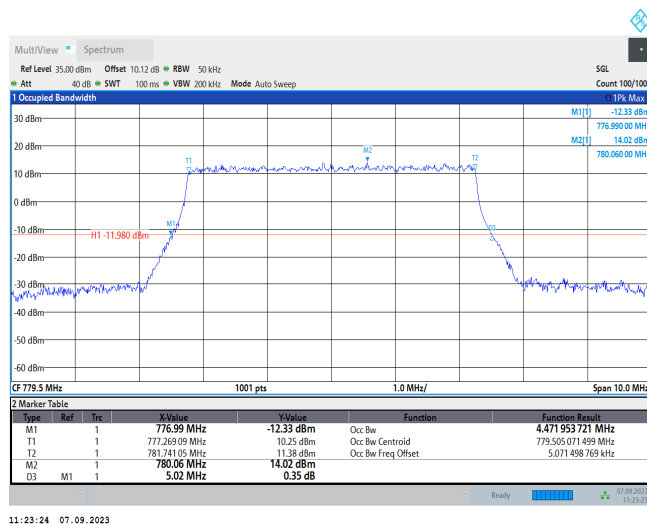
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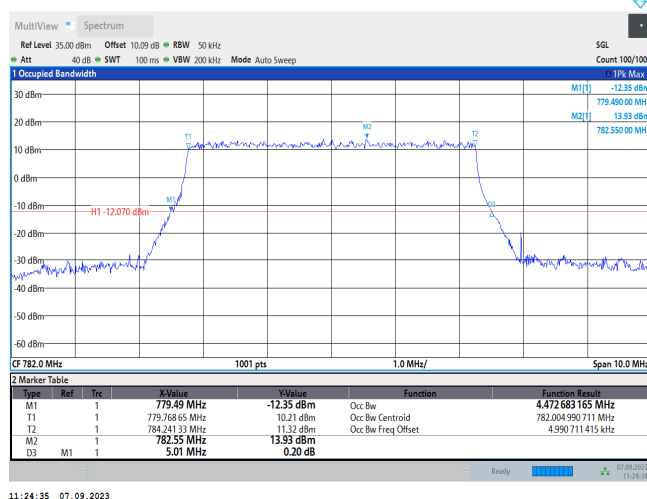
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### Test Graphs

#### Band13-5MHz-QPSK-23205-25RB#0



#### Band13-5MHz-QPSK-23230-25RB#0



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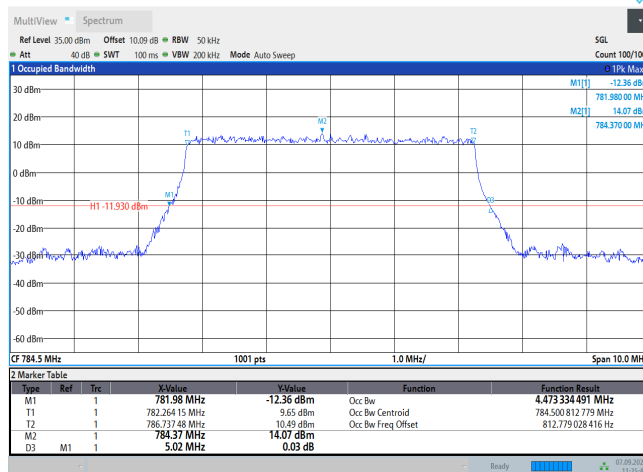
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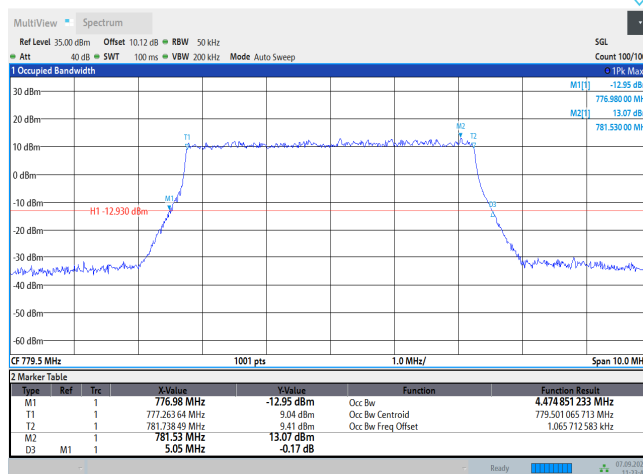
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### Band13-5MHz-QPSK-23255-25RB#0



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### Band13-5MHz-16QAM-23205-25RB#0



11:23:48 07.09.2023



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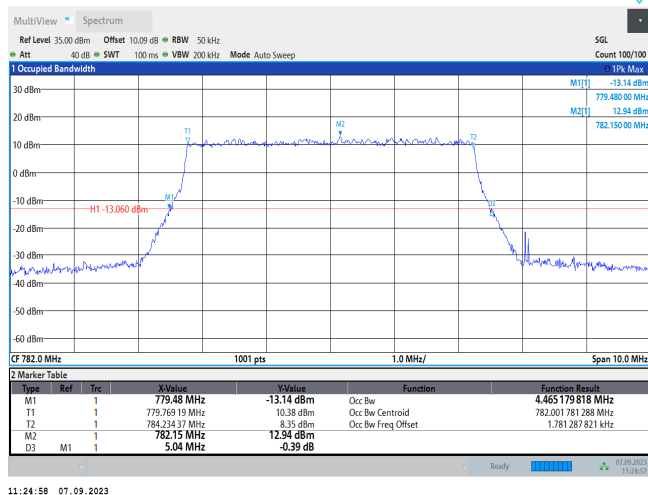
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### Band13-5MHz-16QAM-23230-25RB#0



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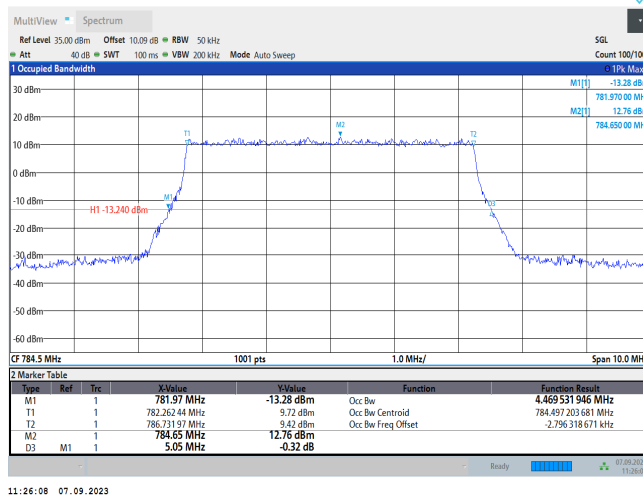
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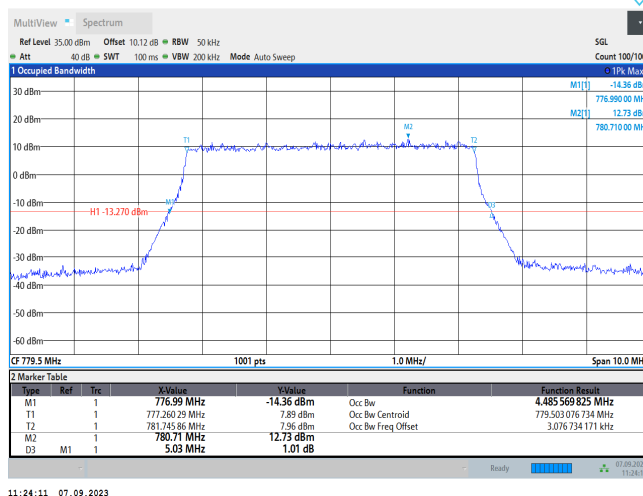
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### Band13-5MHz-16QAM-23255-25RB#0



### Band13-5MHz-64QAM-23205-25RB#0



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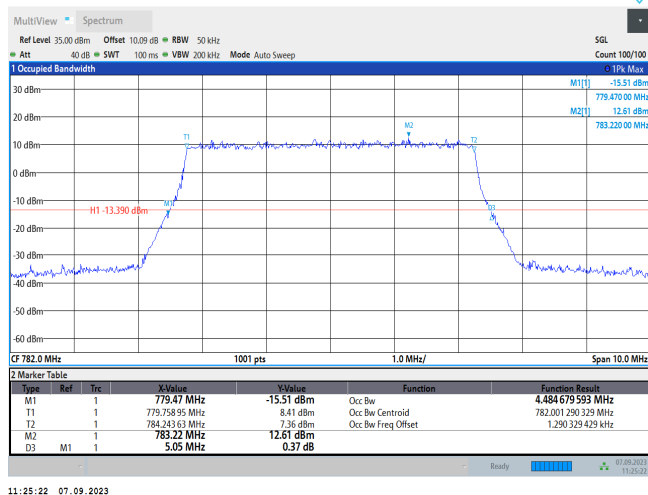
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### Band13-5MHz-64QAM-23230-25RB#0



11:25:22 07.09.2023



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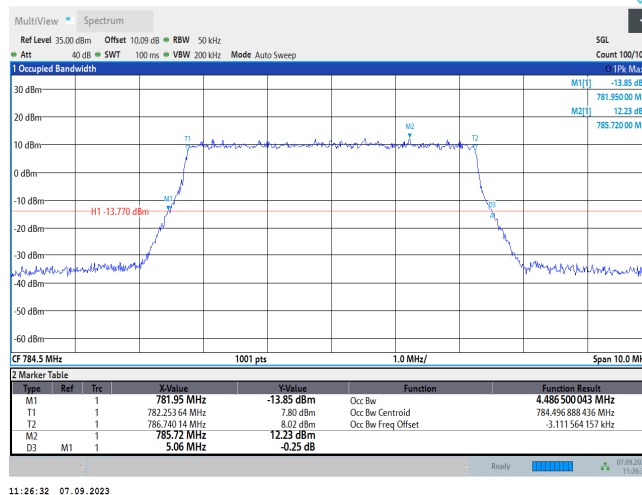
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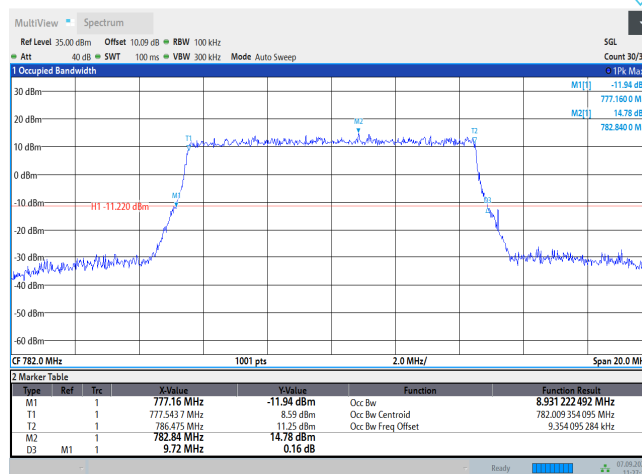
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## Band13-5MHz-64QAM-23255-25RB#0



11:26:32 07.09.2023

## Band13-10MHz-QPSK-23230-50RB#0



11:27:20 07.09.2023



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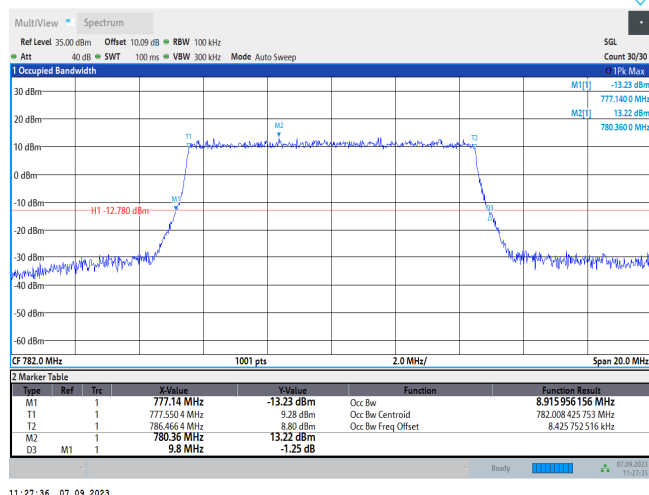
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Band13-10MHz-16QAM-23230-50RB#0



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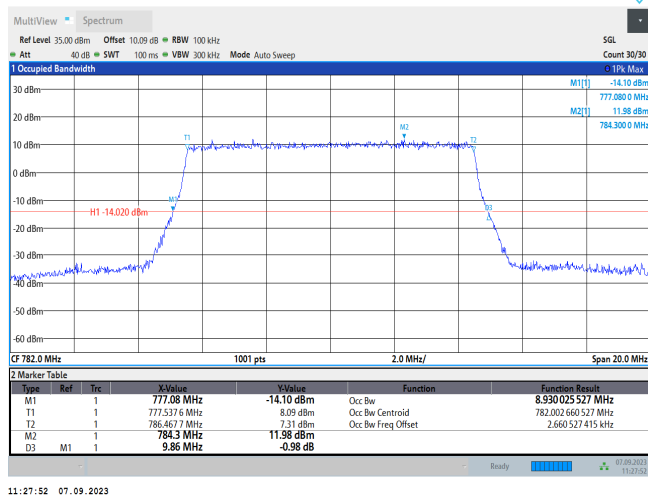
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### Band13-10MHz-64QAM-23230-50RB#0



11:27:52 07.09.2023



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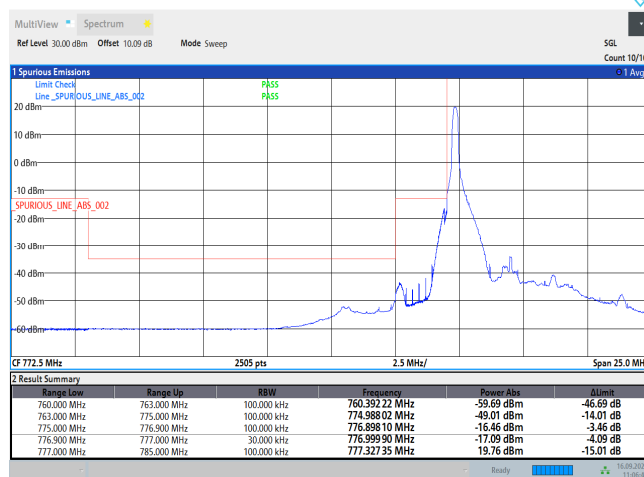
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### Band Edge

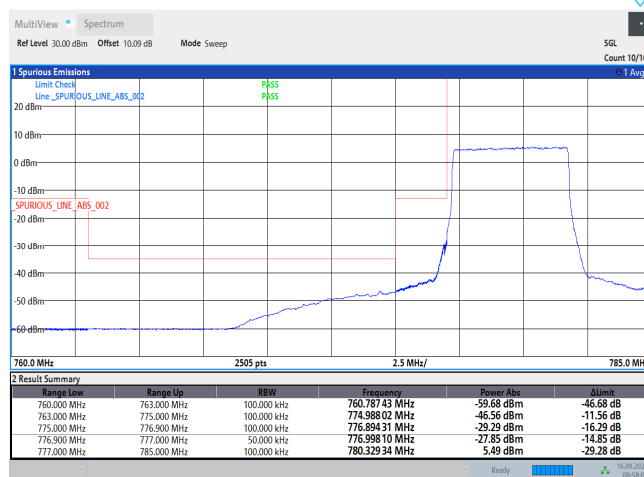
### Test Graphs

#### Band13-5MHz-QPSK-23205-1RB#0



11:06:49 16.09.2023

#### Band13-5MHz-QPSK-23205-25RB#0



08:58:00 16.09.2023



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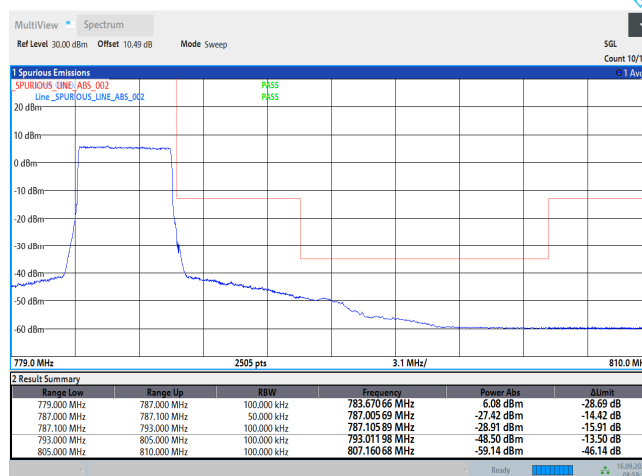
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## Band13-5MHz-QPSK-23255-1RB#24



11:10:37 16.09.2023

## Band13-5MHz-QPSK-23255-25RB#0



08:59:14 16.09.2023



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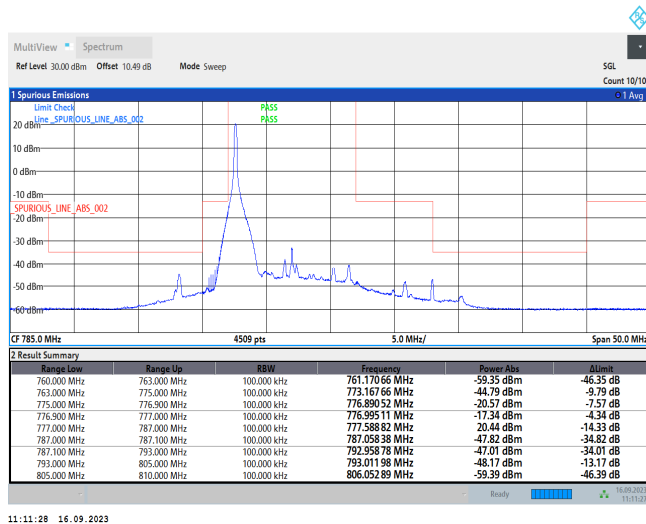
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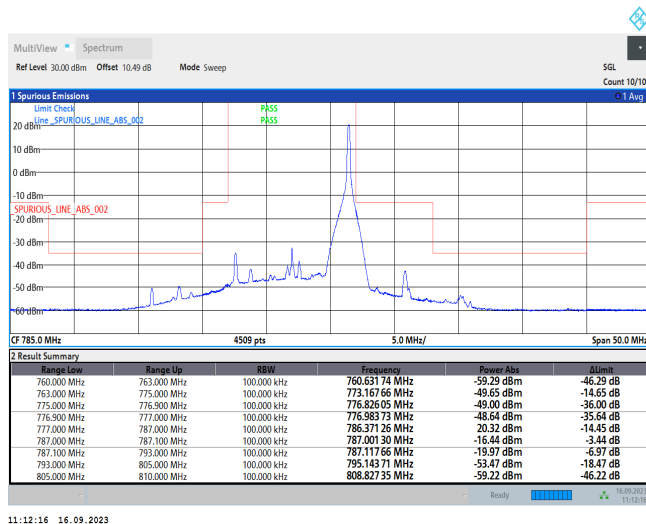
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### Band13-10MHz-QPSK-23230-1RB#0



11:11:28 16.09.2023

### Band13-10MHz-QPSK-23230-1RB#49



11:12:16 16.09.2023



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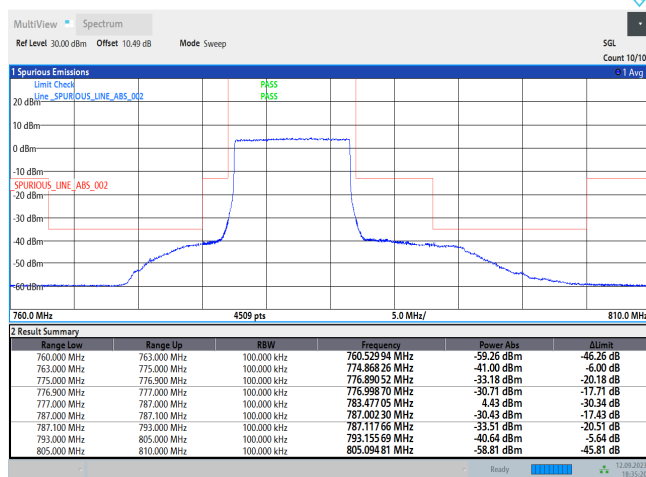
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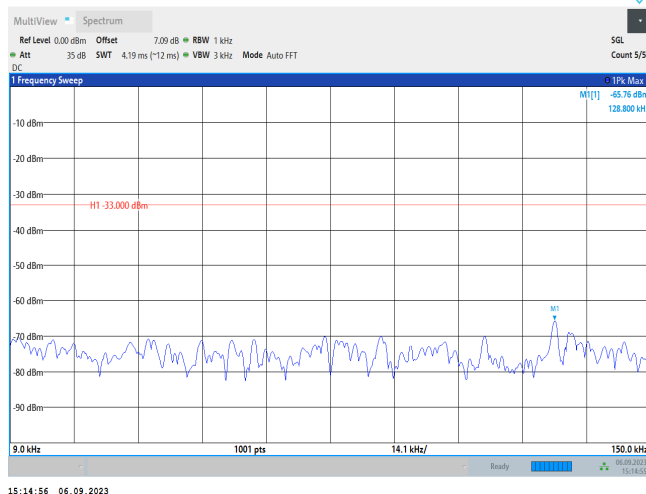


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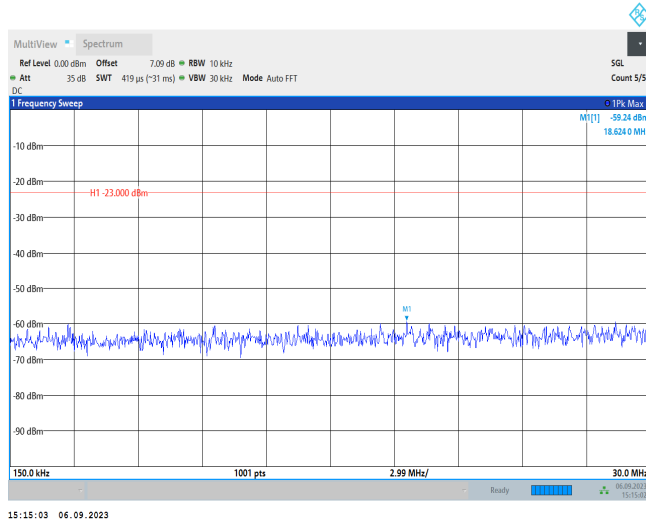
## Conducted Spurious Emission

### Test Graphs

Band13-10MHz-QPSK-23230-1RB#0-Range1:0.009~0.15MHz



Band13-10MHz-QPSK-23230-1RB#0-Range2:0.15~30MHz



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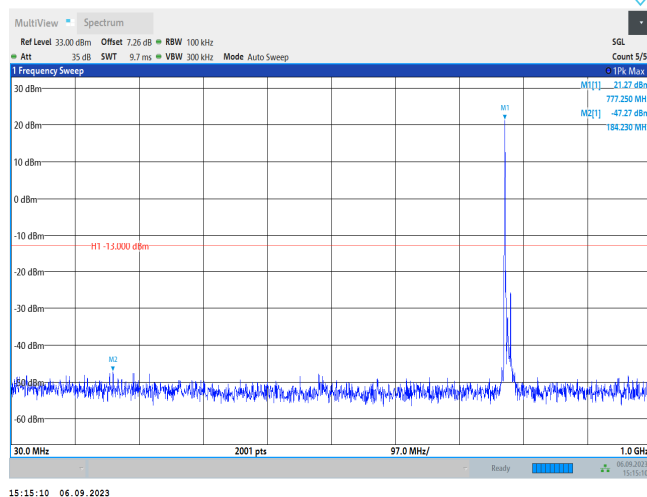
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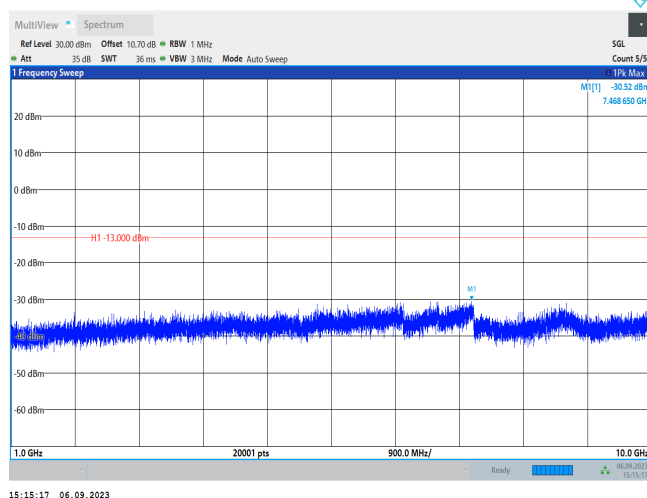
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### Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1000MHz



### Band13-10MHz-QPSK-23230-1RB#0-Range4:1000~10000MHz



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中国·苏州·中国 (江苏) 自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn  
t (86-512) 62992980 sgs.china@sgs.com

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## Field Strength of Spurious Radiation(SKU3):

**Test Band = LTE Band 13 10M\_ TM1**
**Test Channel = Mid Channel**

| 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         | 1555               | 66.24             | -49.89         | 24.92    | -53.99         | -13.00         | 40.99          | Horizontal |
| 2         | 2332.77            | 70.93             | -49.25         | 27.10    | -46.48         | -13.00         | 33.48          | Horizontal |
| 3         | 3110.36            | 44.98             | -48.89         | 28.54    | -70.62         | -13.00         | 57.62          | Horizontal |
| 4         | 3887.95            | 46.56             | -48.43         | 29.24    | -67.88         | -13.00         | 54.88          | Horizontal |
| 5         | 4665.54            | 44.07             | -48.07         | 30.70    | -68.56         | -13.00         | 55.56          | Horizontal |
| 6         | 5443.13            | 43.64             | -47.42         | 32.56    | -66.47         | -13.00         | 53.47          | Horizontal |

| 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         | 1555.18            | 53.70             | -49.89         | 24.92    | -66.52         | -13.00         | 53.52          | Vertical |
| 2         | 2332.77            | 69.94             | -49.25         | 27.10    | -47.47         | -13.00         | 34.47          | Vertical |
| 3         | 3110.36            | 44.61             | -48.89         | 28.54    | -70.99         | -13.00         | 57.99          | Vertical |
| 4         | 3887.95            | 52.07             | -48.43         | 29.24    | -62.37         | -13.00         | 49.37          | Vertical |
| 5         | 4665.54            | 44.48             | -48.07         | 30.70    | -68.15         | -13.00         | 55.15          | Vertical |
| 6         | 5443.13            | 43.46             | -47.42         | 32.56    | -66.65         | -13.00         | 53.65          | Vertical |



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中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn  
t (86-512) 62992980 sgs.china@sgs.com

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**Test Band = LTE Band 13 5M\_ TM1****Test Channel = Mid Channel**

| Data List |                 |                |             |          |             |             |             |            |
|-----------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1         | 1559.68         | 63.29          | -49.89      | 24.94    | -56.92      | -40.00      | 26.92       | Horizontal |
| 2         | 2339.52         | 65.41          | -49.27      | 27.11    | -52.01      | -13.00      | 39.01       | Horizontal |
| 3         | 3119.36         | 44.57          | -48.86      | 28.55    | -71.00      | -13.00      | 58.00       | Horizontal |
| 4         | 3899.2          | 47.27          | -48.43      | 29.26    | -67.16      | -13.00      | 54.16       | Horizontal |
| 5         | 4679.04         | 43.61          | -48.07      | 30.73    | -68.99      | -13.00      | 55.99       | Horizontal |
| 6         | 5458.88         | 43.79          | -47.41      | 32.60    | -66.28      | -13.00      | 53.28       | Horizontal |

| Data List |                 |                |             |          |             |             |             |          |
|-----------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.       | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1         | 1559.68         | 54.74          | -49.89      | 24.94    | -65.47      | -40.00      | 25.47       | Vertical |
| 2         | 2339.52         | 66.98          | -49.27      | 27.11    | -50.44      | -13.00      | 37.44       | Vertical |
| 3         | 3119.36         | 44.08          | -48.86      | 28.55    | -71.49      | -13.00      | 58.49       | Vertical |
| 4         | 3899.2          | 48.00          | -48.43      | 29.26    | -66.43      | -13.00      | 53.43       | Vertical |
| 5         | 4679.04         | 43.38          | -48.07      | 30.73    | -69.22      | -13.00      | 56.22       | Vertical |
| 6         | 5458.88         | 43.69          | -47.41      | 32.60    | -66.38      | -13.00      | 53.38       | 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) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编: 215000

t (86-512) 62992980 www.sgsgroup.com.cn  
t (86-512) 62992980 sgs.china@sgs.com

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## Frequency Stability

### Test Result

| Voltage |           |            |         |              |               |                  |                |                 |         |
|---------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band    | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
| Band13  | 10MHz     | QPSK       | 23230   | 50RB#0       | VL            | NT               | -6.47          | -0.008274       | PASS    |
| Band13  | 10MHz     | QPSK       | 23230   | 50RB#0       | VN            | NT               | -5.66          | -0.007238       | PASS    |
| Band13  | 10MHz     | QPSK       | 23230   | 50RB#0       | VH            | NT               | -5.75          | -0.007353       | PASS    |

| Temperature |           |            |         |              |               |                  |                |                 |         |
|-------------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band        | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
| Band13      | 10MHz     | QPSK       | 23230   | 50RB#0       | NV            | -30              | -5.15          | -0.006586       | PASS    |
| Band13      | 10MHz     | QPSK       | 23230   | 50RB#0       | NV            | -20              | -9.03          | -0.011547       | PASS    |
| Band13      | 10MHz     | QPSK       | 23230   | 50RB#0       | NV            | -10              | -5.22          | -0.006675       | PASS    |
| Band13      | 10MHz     | QPSK       | 23230   | 50RB#0       | NV            | 0                | -5.04          | -0.006445       | PASS    |
| Band13      | 10MHz     | QPSK       | 23230   | 50RB#0       | NV            | 10               | -8.34          | -0.010665       | PASS    |
| Band13      | 10MHz     | QPSK       | 23230   | 50RB#0       | NV            | 20               | -5.24          | -0.006701       | PASS    |
| Band13      | 10MHz     | QPSK       | 23230   | 50RB#0       | NV            | 30               | -4.23          | -0.005409       | PASS    |
| Band13      | 10MHz     | QPSK       | 23230   | 50RB#0       | NV            | 40               | -9.01          | -0.011522       | PASS    |
| Band13      | 10MHz     | QPSK       | 23230   | 50RB#0       | NV            | 50               | -9.44          | -0.012072       | PASS    |

---End of Attachment---



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