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# Appendix B.10

## LTE Cat-M1 Band26(824-849)



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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 |
|--------|-----------|------------|---------|------------------|-------------|-----------|-------------|---------|
| Band26 | 1.4M      | QPSK       | L       | 1RB0             | 20.32       | 21.17     | 38.45       | PASS    |
| Band26 | 1.4M      | QPSK       | L       | 1RB5             | 20.14       | 20.99     | 38.45       | PASS    |
| Band26 | 1.4M      | QPSK       | L       | 6RB0             | 19.23       | 20.08     | 38.45       | PASS    |
| Band26 | 1.4M      | QPSK       | M       | 1RB0             | 20.32       | 21.17     | 38.45       | PASS    |
| Band26 | 1.4M      | QPSK       | M       | 1RB5             | 20.41       | 21.26     | 38.45       | PASS    |
| Band26 | 1.4M      | QPSK       | M       | 6RB0             | 19.41       | 20.26     | 38.45       | PASS    |
| Band26 | 1.4M      | QPSK       | H       | 1RB0             | 20.36       | 21.21     | 38.45       | PASS    |
| Band26 | 1.4M      | QPSK       | H       | 1RB5             | 20.54       | 21.39     | 38.45       | PASS    |
| Band26 | 1.4M      | QPSK       | H       | 6RB0             | 18.99       | 19.84     | 38.45       | PASS    |
| Band26 | 3M        | QPSK       | L       | 1RB0             | 20.41       | 21.26     | 38.45       | PASS    |
| Band26 | 3M        | QPSK       | L       | 1RB5             | 20.64       | 21.49     | 38.45       | PASS    |
| Band26 | 3M        | QPSK       | L       | 6RB0             | 19.51       | 20.36     | 38.45       | PASS    |
| Band26 | 3M        | QPSK       | M       | 1RB0             | 20.32       | 21.17     | 38.45       | PASS    |
| Band26 | 3M        | QPSK       | M       | 1RB5             | 20.41       | 21.26     | 38.45       | PASS    |
| Band26 | 3M        | QPSK       | M       | 6RB0             | 19.63       | 20.48     | 38.45       | PASS    |
| Band26 | 3M        | QPSK       | H       | 1RB0             | 20.74       | 21.59     | 38.45       | PASS    |
| Band26 | 3M        | QPSK       | H       | 1RB5             | 20.43       | 21.28     | 38.45       | PASS    |
| Band26 | 3M        | QPSK       | H       | 6RB0             | 19.54       | 20.39     | 38.45       | PASS    |
| Band26 | 5M        | QPSK       | L       | 1RB0             | 20.43       | 21.28     | 38.45       | PASS    |
| Band26 | 5M        | QPSK       | L       | 1RB5             | 20.54       | 21.39     | 38.45       | PASS    |
| Band26 | 5M        | QPSK       | L       | 6RB0             | 19.75       | 20.6      | 38.45       | PASS    |
| Band26 | 5M        | QPSK       | M       | 1RB0             | 20.63       | 21.48     | 38.45       | PASS    |
| Band26 | 5M        | QPSK       | M       | 1RB5             | 20.45       | 21.3      | 38.45       | PASS    |
| Band26 | 5M        | QPSK       | M       | 6RB0             | 19.77       | 20.62     | 38.45       | PASS    |
| Band26 | 5M        | QPSK       | H       | 1RB0             | 20.32       | 21.17     | 38.45       | PASS    |
| Band26 | 5M        | QPSK       | H       | 1RB5             | 20.41       | 21.26     | 38.45       | PASS    |
| Band26 | 5M        | QPSK       | H       | 6RB0             | 19.56       | 20.41     | 38.45       | PASS    |



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## Peak-to-Average Ratio(CCDF)

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band26 | 5MHz      | QPSK       | 26815   | 6RB#0            | 8.88       | 13        | PASS    |
| Band26 | 5MHz      | QPSK       | 26915   | 6RB#0            | 8.82       | 13        | PASS    |
| Band26 | 5MHz      | QPSK       | 27015   | 6RB#0            | 8.74       | 13        | PASS    |



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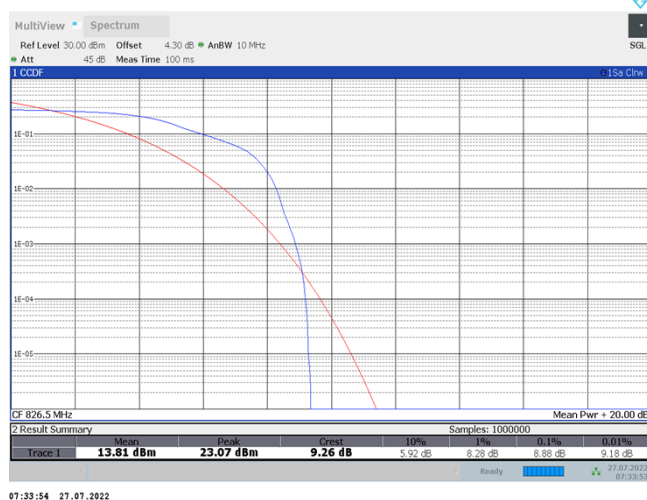
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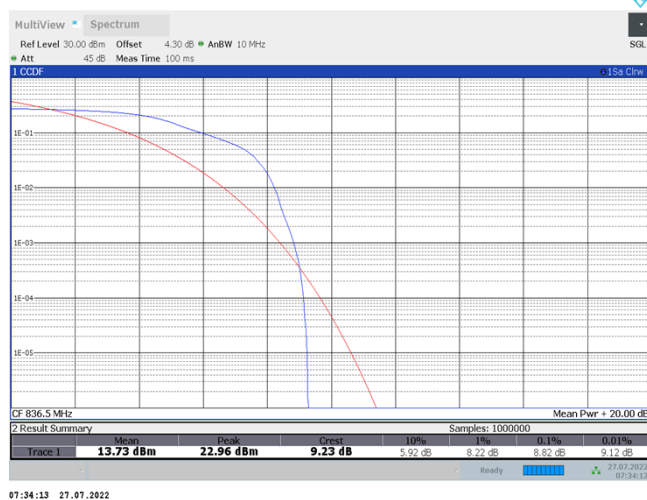
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### Test Graphs

Band26-5MHz-QPSK-26815-6RB#0



Band26-5MHz-QPSK-26915-6RB#0



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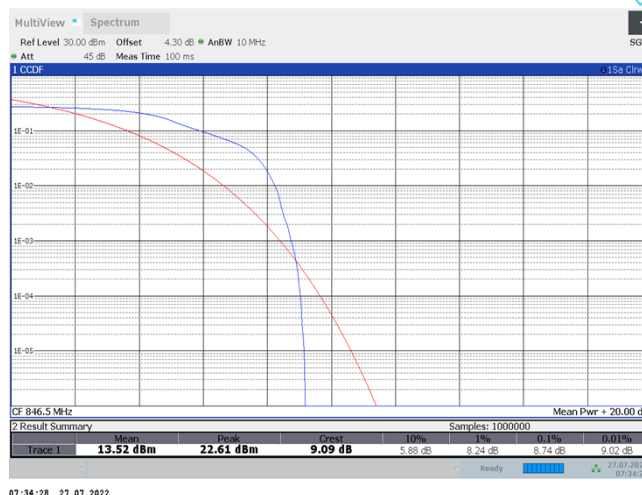
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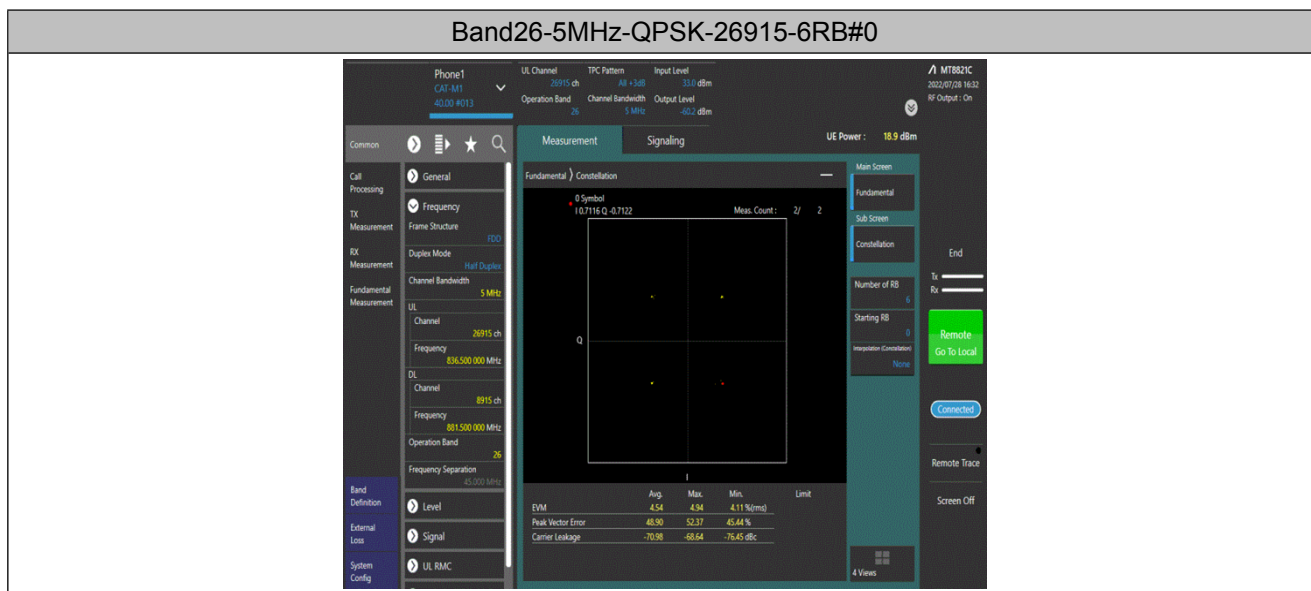
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## Modulation Characteristics

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result | Verdict |
|--------|-----------|------------|---------|------------------|--------|---------|
| Band26 | 5MHz      | QPSK       | 26915   | 6RB#0            | PASS   | PASS    |

### Test Graphs



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band26 | 1.4MHz    | QPSK       | 26797   | 6RB#0            | 1.093                    | 1.26                 | PASS    |
| Band26 | 1.4MHz    | QPSK       | 26915   | 6RB#0            | 1.09                     | 1.26                 | PASS    |
| Band26 | 1.4MHz    | QPSK       | 27033   | 6RB#0            | 1.091                    | 1.26                 | PASS    |
| Band26 | 3MHz      | QPSK       | 26805   | 6RB#0            | 1.134                    | 1.33                 | PASS    |
| Band26 | 3MHz      | QPSK       | 26915   | 6RB#0            | 1.114                    | 1.38                 | PASS    |
| Band26 | 3MHz      | QPSK       | 27025   | 6RB#0            | 1.111                    | 1.38                 | PASS    |
| Band26 | 5MHz      | QPSK       | 26815   | 6RB#0            | 1.102                    | 1.29                 | PASS    |
| Band26 | 5MHz      | QPSK       | 26915   | 6RB#0            | 1.14                     | 1.43                 | PASS    |
| Band26 | 5MHz      | QPSK       | 27015   | 6RB#0            | 1.13                     | 1.41                 | PASS    |



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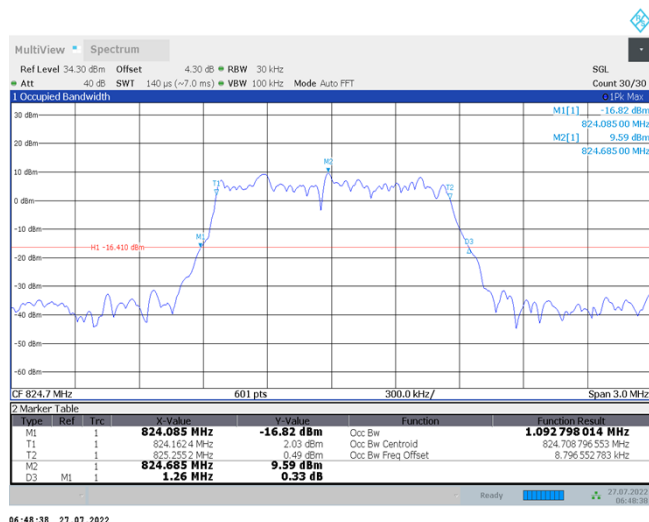
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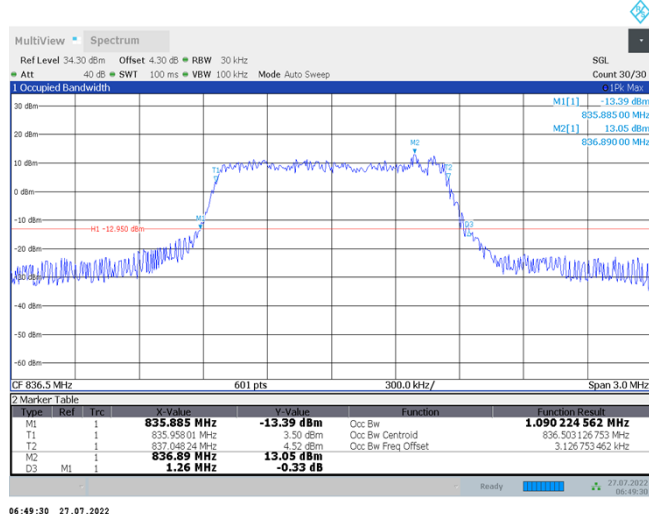
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### Test Graphs

Band26-1.4MHz-QPSK-26797-6RB#0



Band26-1.4MHz-QPSK-26915-6RB#0



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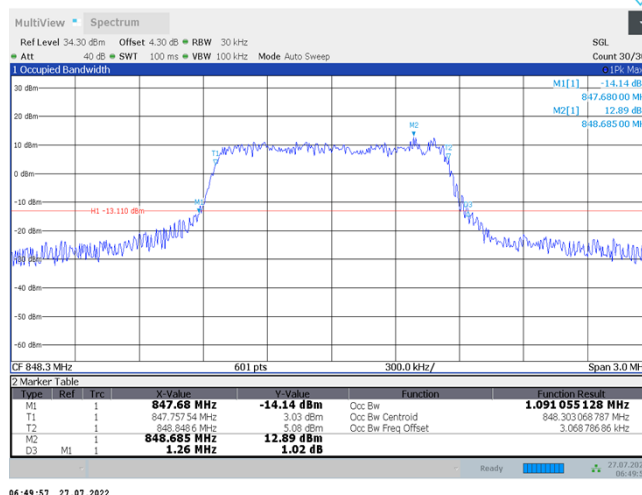


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### Band26-1.4MHz-QPSK-27033-6RB#0



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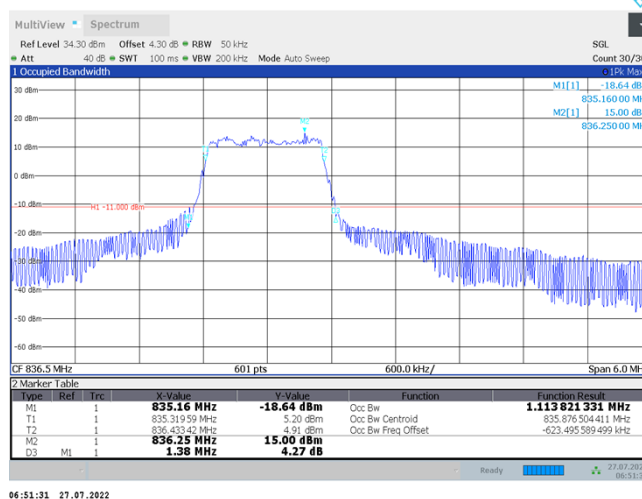
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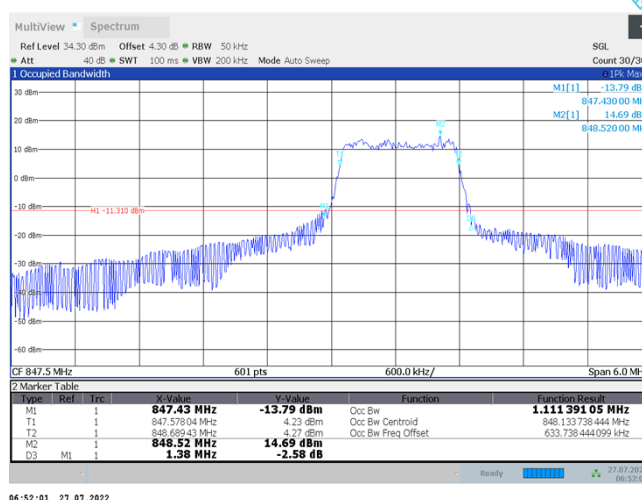
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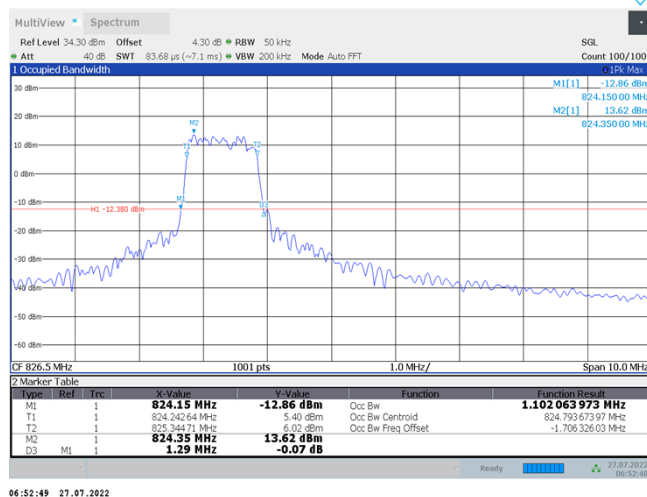
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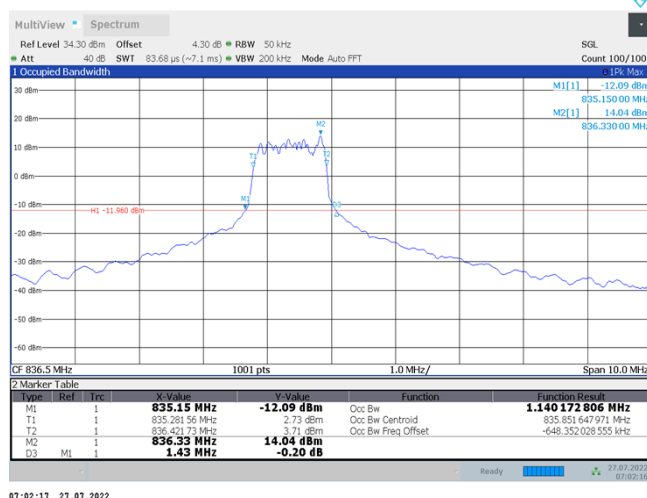
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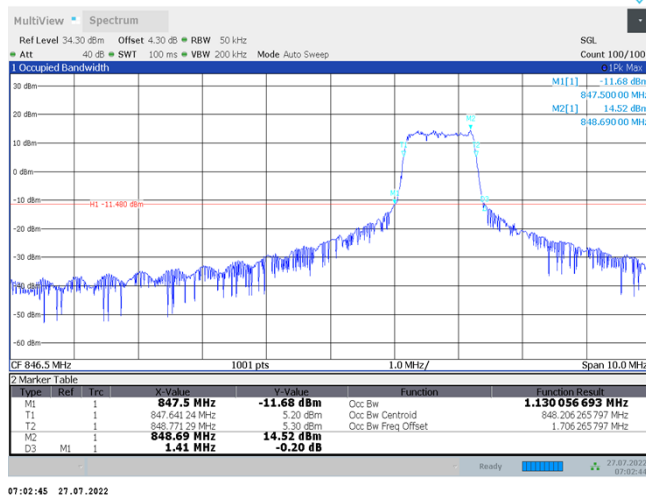
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### Band26-5MHz-QPSK-27015-6RB#0



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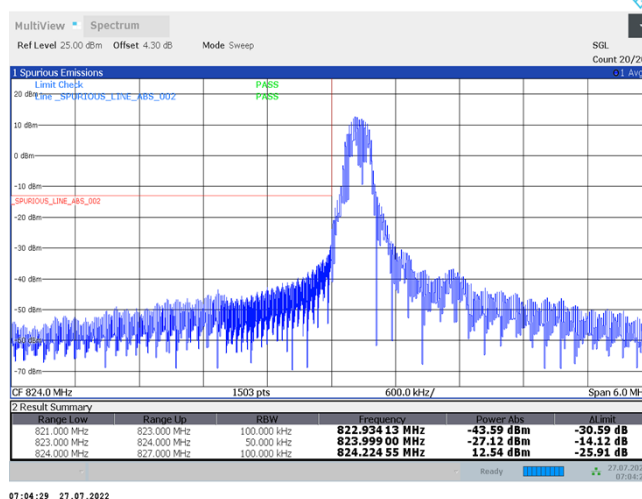
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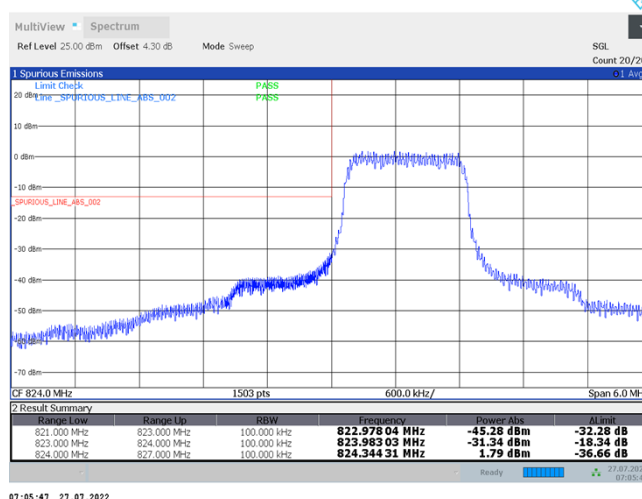
### Band Edge

### Test Graphs

Band26-1.4MHz-QPSK-26797-1RB#0



Band26-1.4MHz-QPSK-26797-6RB#0



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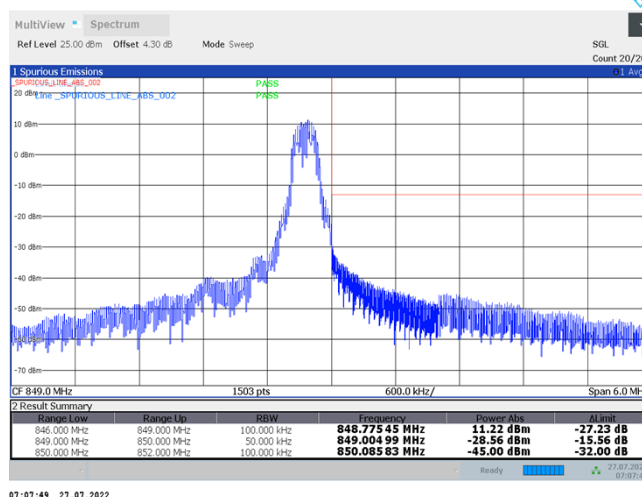


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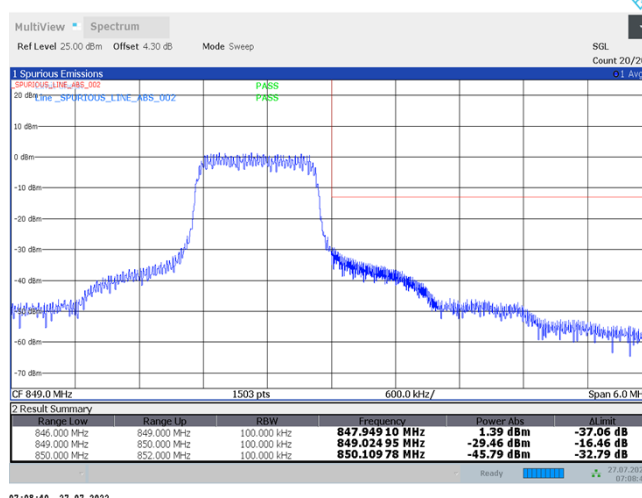
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### Band26-1.4MHz-QPSK-27033-6RB#0



07:08:40 27.07.2022



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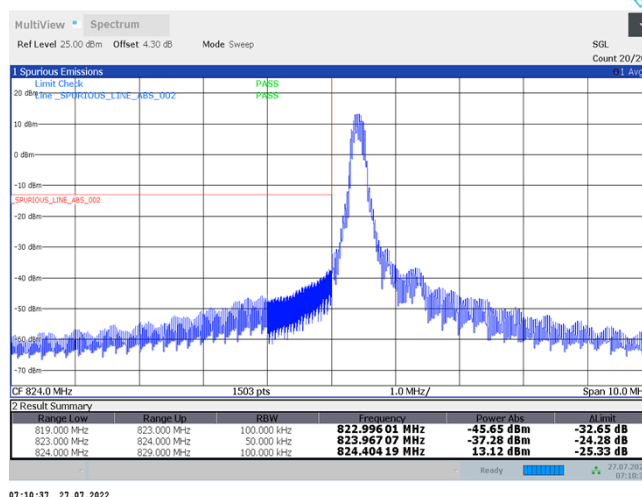
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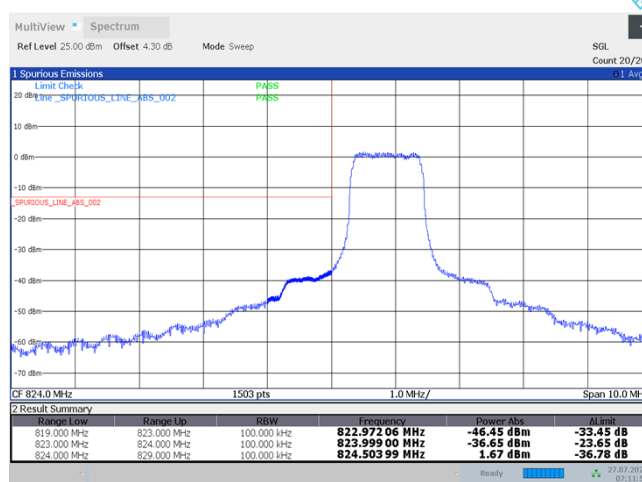
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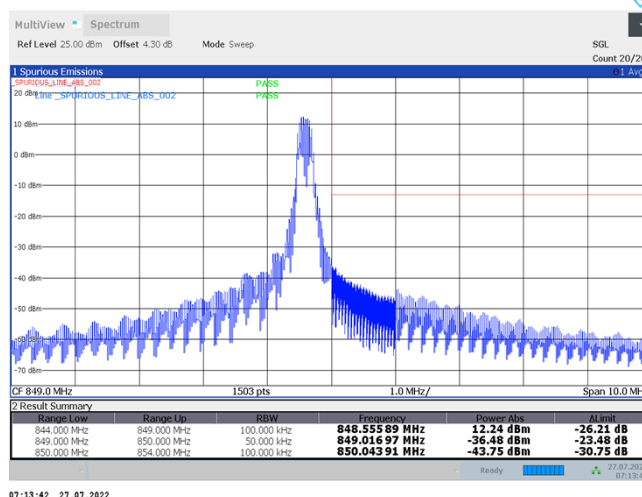
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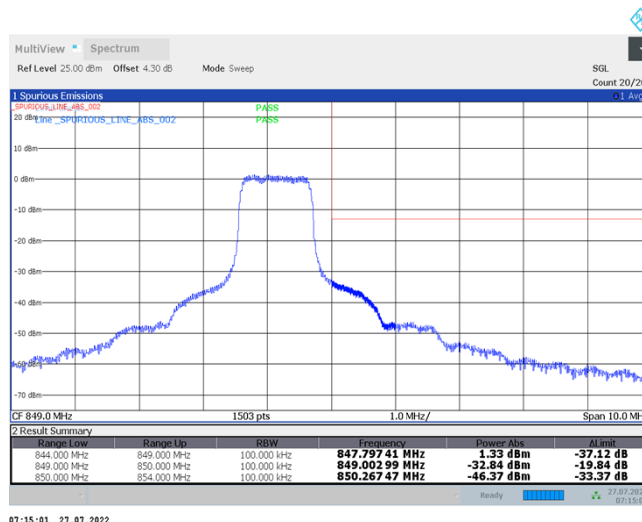
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### Band26-3MHz-QPSK-27025-6RB#0



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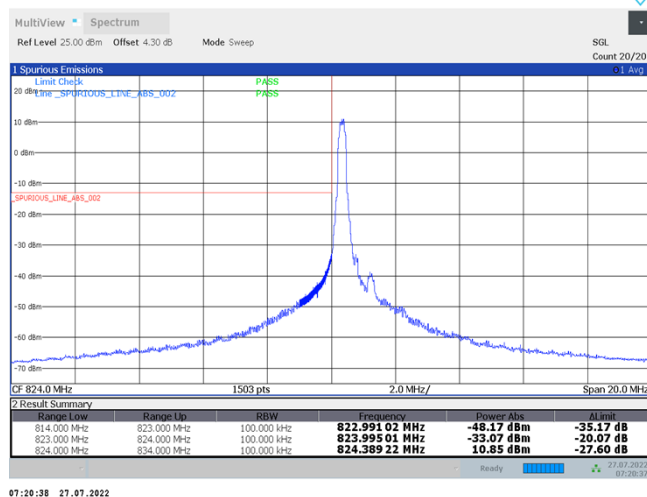
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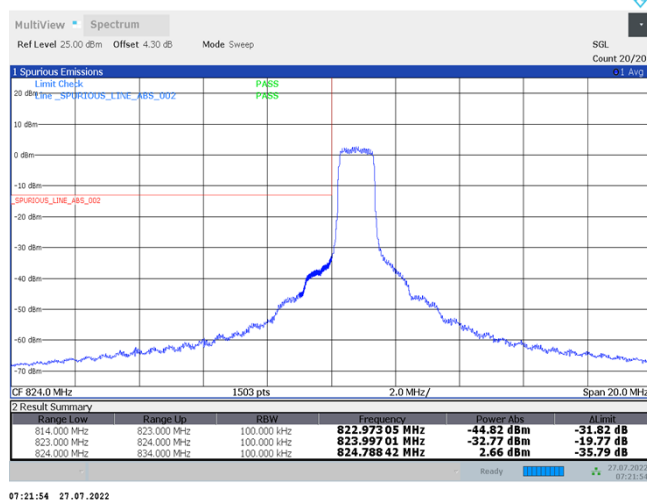
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### Band26-5MHz-QPSK-26815-1RB#0



### Band26-5MHz-QPSK-26815-6RB#0



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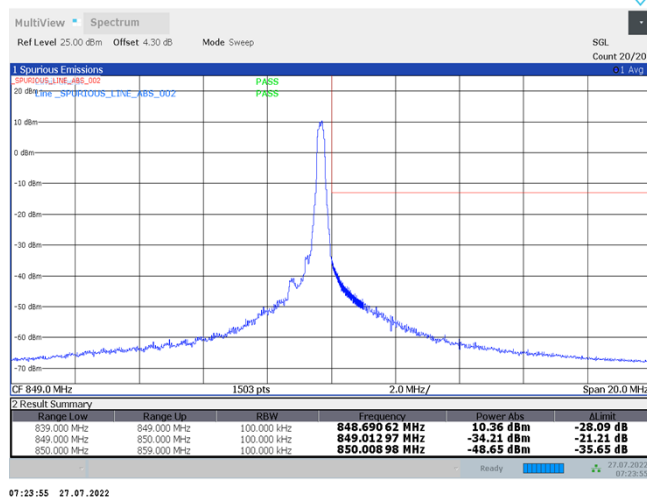
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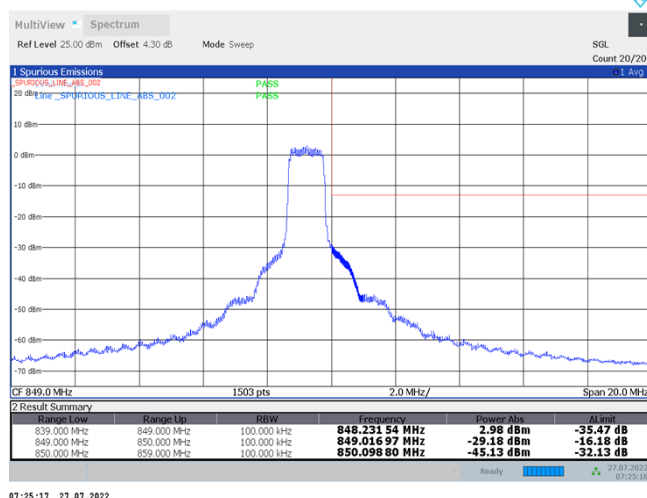
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### Band26-5MHz-QPSK-27015-6RB#0



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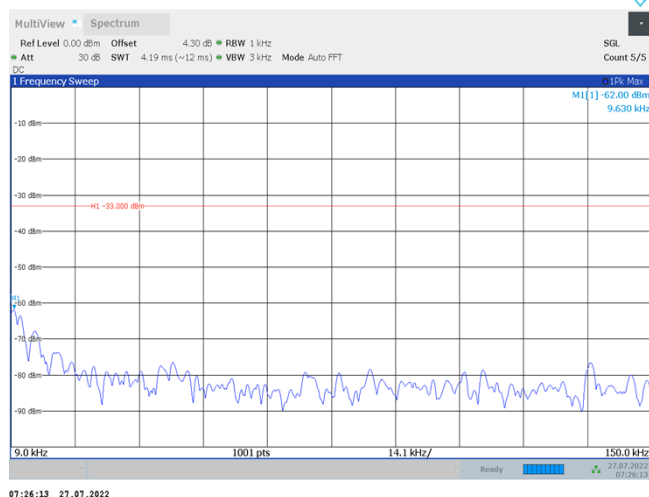
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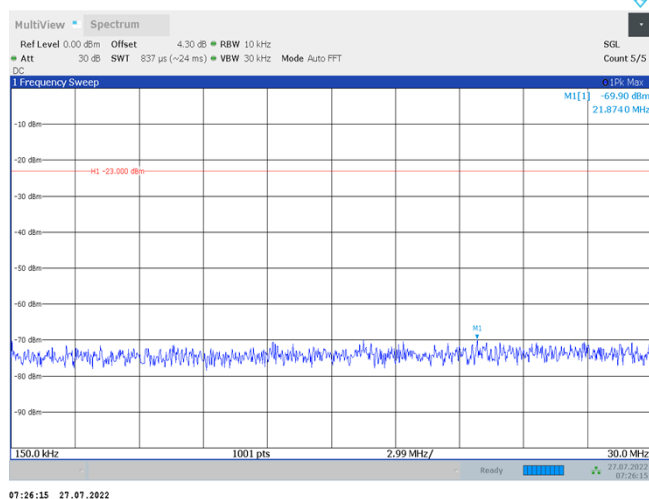
### Conducted Spurious Emission

#### Test Graphs

Band26-5MHz-QPSK-26815-1RB#0-Range1:0.009~0.5MHz



Band26-5MHz-QPSK-26815-1RB#0-Range2:0.15~30MHz



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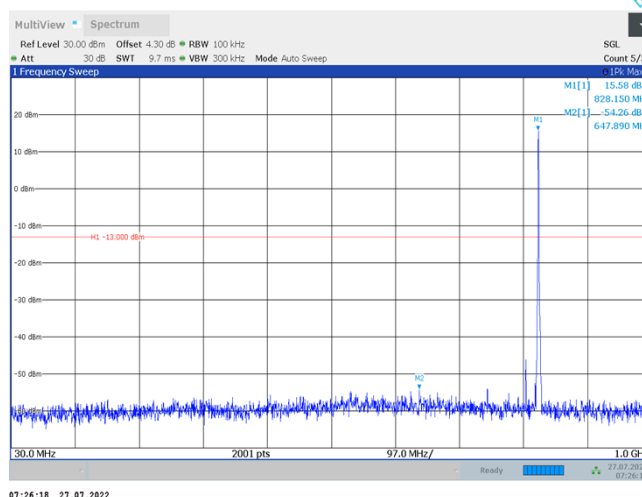
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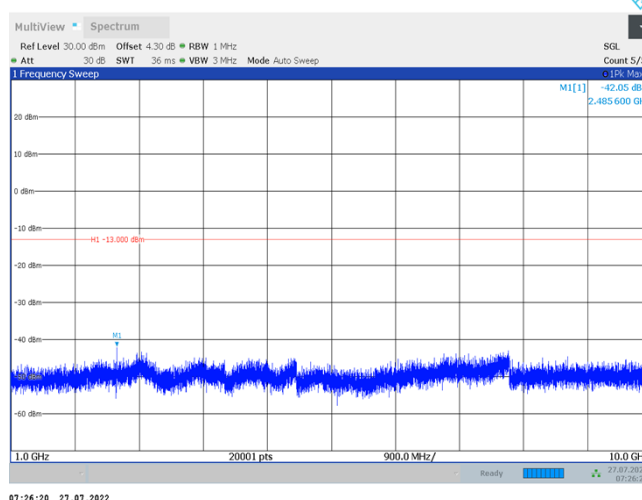
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### Band26-5MHz-QPSK-26815-1RB#0-Range3:30~1000MHz



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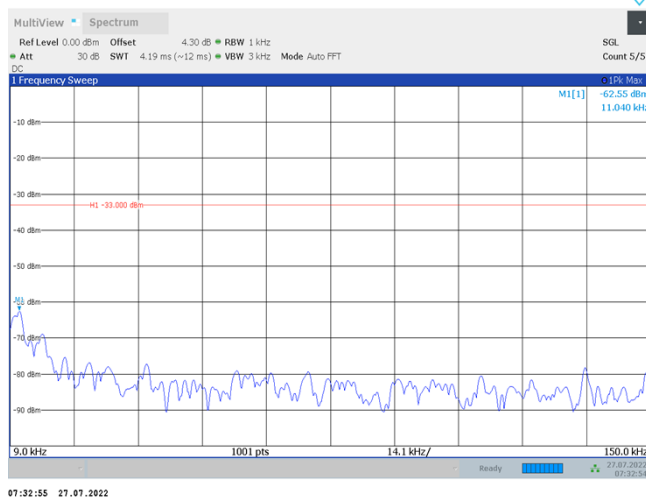
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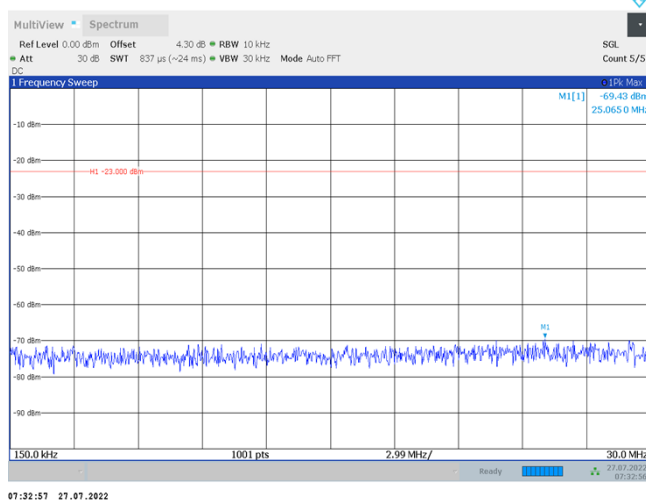
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### Band26-5MHz-QPSK-26915-1RB#0-Range1:0.009~0.5MHz



### Band26-5MHz-QPSK-26915-1RB#0-Range2:0.15~30MHz



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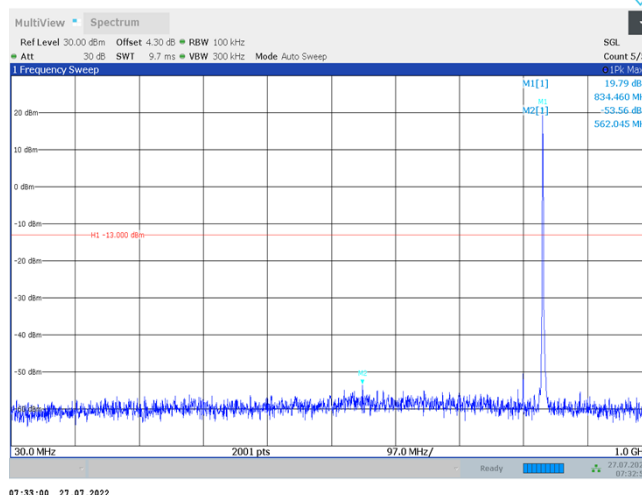
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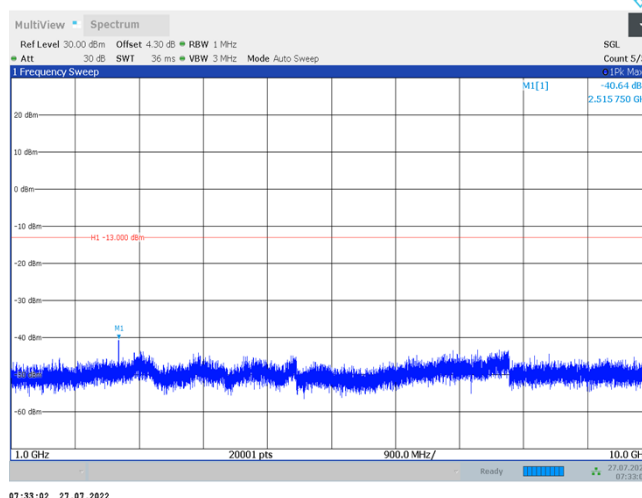
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### Band26-5MHz-QPSK-26915-1RB#0-Range3:30~1000MHz



### Band26-5MHz-QPSK-26915-1RB#0-Range4:1000~10000MHz



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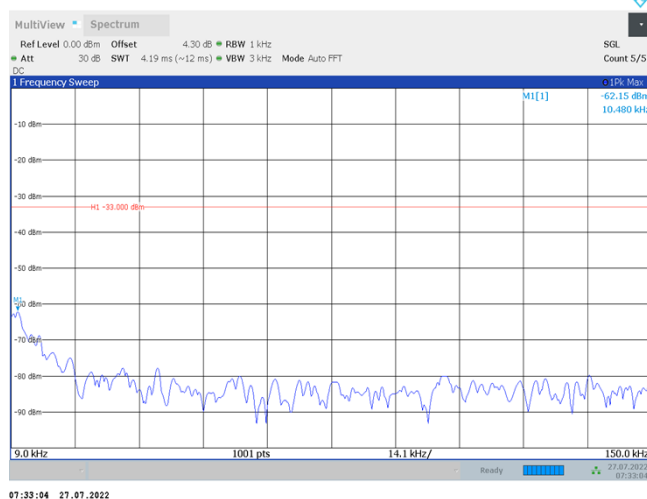
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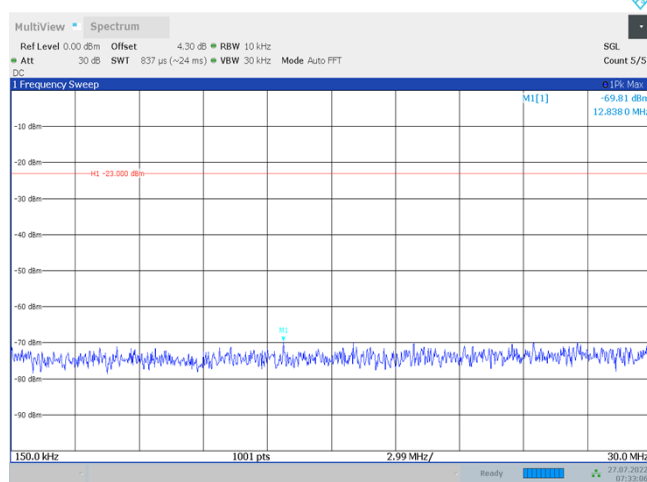
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### Band26-5MHz-QPSK-27015-1RB#0-Range1:0.009~0.5MHz



07:33:04 27.07.2022

### Band26-5MHz-QPSK-27015-1RB#0-Range2:0.15~30MHz



07:33:06 27.07.2022



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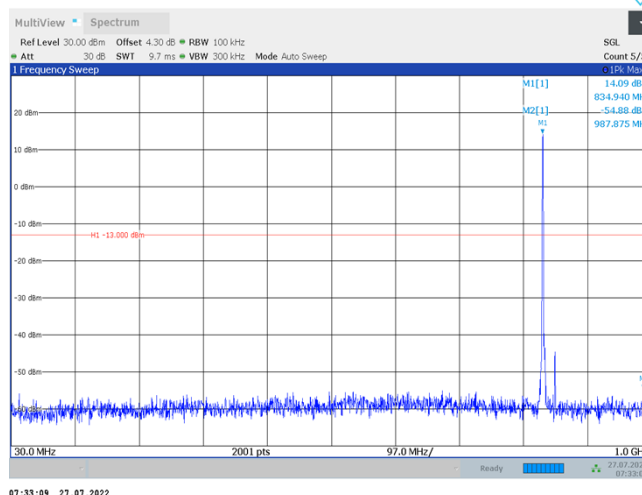
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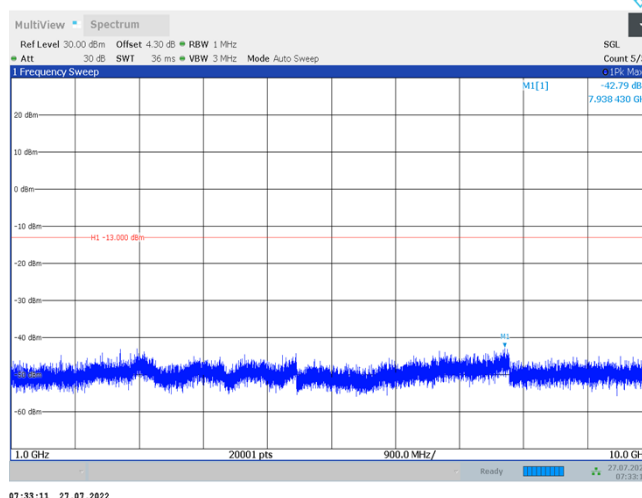
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### Band26-5MHz-QPSK-27015-1RB#0-Range3:30~1000MHz



### Band26-5MHz-QPSK-27015-1RB#0-Range4:1000~10000MHz



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## Field Strength of Spurious Radiation

**Test Band = CAT M1 Band 26\_ TM1**
**Test Channel = Low**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 1649.6800       | 65.58          | -48.22      | 25.37    | -52.53      | -13.00      | 39.53       | 157         | 226       | Horizontal |
| 2               | 2474.5200       | 74.76          | -47.32      | 27.69    | -40.13      | -13.00      | 27.13       | 215         | 213       | Horizontal |
| 3               | 3299.3600       | 53.53          | -46.68      | 29.56    | -58.85      | -13.00      | 45.85       | 269         | 332       | Horizontal |
| 4               | 4124.2000       | 52.23          | -45.91      | 30.99    | -57.96      | -13.00      | 44.96       | 194         | 173       | Horizontal |
| 5               | 4949.0400       | 50.09          | -45.69      | 32.74    | -58.13      | -13.00      | 45.13       | 251         | 319       | Horizontal |
| 6               | 5773.8800       | 48.61          | -44.64      | 33.66    | -57.63      | -13.00      | 44.63       | 167         | 13        | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1649.6800       | 55.53          | -48.22      | 25.37    | -62.58      | -13.00      | 49.58       | 214         | 187       | Vertical |
| 2               | 2474.5200       | 62.32          | -47.32      | 27.69    | -52.57      | -13.00      | 39.57       | 225         | 133       | Vertical |
| 3               | 3299.3600       | 51.89          | -46.68      | 29.56    | -60.49      | -13.00      | 47.49       | 186         | 146       | Vertical |
| 4               | 4124.2000       | 49.09          | -45.91      | 30.99    | -61.10      | -13.00      | 48.10       | 172         | 94        | Vertical |
| 5               | 4949.0400       | 49.96          | -45.69      | 32.74    | -58.26      | -13.00      | 45.26       | 263         | 8         | Vertical |
| 6               | 5773.8800       | 49.50          | -44.64      | 33.66    | -56.74      | -13.00      | 43.74       | 254         | 160       | Vertical |



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**Test Band = CAT M1 Band 26\_ TM1**
**Test Channel = Mid**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 1659.6800       | 68.06          | -48.21      | 25.37    | -50.03      | -13.00      | 37.03       | 167         | 200       | Horizontal |
| 2               | 2489.5200       | 72.91          | -47.29      | 27.74    | -41.90      | -13.00      | 28.90       | 159         | 252       | Horizontal |
| 3               | 3321.7143       | 61.57          | -46.65      | 29.53    | -50.81      | -13.00      | 37.81       | 218         | 239       | Horizontal |
| 4               | 4149.2000       | 56.10          | -45.93      | 31.02    | -54.07      | -13.00      | 41.07       | 237         | 226       | Horizontal |
| 5               | 4979.0400       | 49.11          | -45.76      | 32.82    | -59.09      | -13.00      | 46.09       | 251         | 66        | Horizontal |
| 6               | 5805.8800       | 50.30          | -44.68      | 33.76    | -55.88      | -13.00      | 42.88       | 163         | 360       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1659.6800       | 57.31          | -48.21      | 25.37    | -60.78      | -13.00      | 47.78       | 217         | 281       | Vertical |
| 2               | 2489.5200       | 57.79          | -47.29      | 27.74    | -57.02      | -13.00      | 44.02       | 259         | 148       | Vertical |
| 3               | 3319.3600       | 49.89          | -46.65      | 29.53    | -62.49      | -13.00      | 49.49       | 228         | 188       | Vertical |
| 4               | 4149.2000       | 49.77          | -45.93      | 31.02    | -60.40      | -13.00      | 47.40       | 164         | 293       | Vertical |
| 5               | 4979.0400       | 49.09          | -45.76      | 32.82    | -59.11      | -13.00      | 46.11       | 139         | 267       | Vertical |
| 6               | 5805.8800       | 48.87          | -44.68      | 33.76    | -57.31      | -13.00      | 44.31       | 182         | 67        | Vertical |



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**Test Band = CAT M1 Band 26\_ TM1**
**Test Channel = High**

| Final Data List |                 |                |             |          |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 1669.6800       | 72.28          | -48.20      | 25.38    | -45.80      | -13.00      | 32.80       | 167         | 227       | Horizontal |
| 2               | 2505.1429       | 75.00          | -47.25      | 27.79    | -39.73      | -13.00      | 26.73       | 251         | 227       | Horizontal |
| 3               | 3341.7143       | 62.60          | -46.62      | 29.50    | -49.78      | -13.00      | 36.78       | 224         | 240       | Horizontal |
| 4               | 4177.1429       | 58.85          | -45.95      | 31.07    | -51.29      | -13.00      | 38.29       | 231         | 267       | Horizontal |
| 5               | 5009.0400       | 49.61          | -45.77      | 32.89    | -58.54      | -13.00      | 45.54       | 246         | 360       | Horizontal |
| 6               | 5843.8800       | 48.39          | -44.80      | 33.83    | -57.83      | -13.00      | 44.83       | 259         | 134       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 1669.6800       | 56.36          | -48.20      | 25.38    | -61.72      | -13.00      | 48.72       | 219         | 244       | Vertical |
| 2               | 2505.1429       | 61.06          | -47.25      | 27.79    | -53.67      | -13.00      | 40.67       | 237         | 126       | Vertical |
| 3               | 3339.3600       | 49.76          | -46.62      | 29.51    | -62.62      | -13.00      | 49.62       | 184         | 357       | Vertical |
| 4               | 4174.2000       | 50.42          | -45.94      | 31.06    | -59.72      | -13.00      | 46.72       | 172         | 11        | Vertical |
| 5               | 5009.0400       | 49.39          | -45.77      | 32.89    | -58.76      | -13.00      | 45.76       | 228         | 297       | Vertical |
| 6               | 5843.8800       | 49.62          | -44.80      | 33.83    | -56.60      | -13.00      | 43.60       | 261         | 2         | 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 + AF(dB/m) + Factor(dB)

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain (dB)

Margin = Limit(dBm) - Level(dBm)

dBm = dBμV – 95.26



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## Frequency Stability

### Test Result

| Voltage |           |            |         |                  |               |                  |                |                 |             |         |
|---------|-----------|------------|---------|------------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band    | Bandwidth | Modulation | Channel | RB Configuration | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band26  | 5MHz      | QPSK       | 26915   | 6RB#0            | VL            | NT               | -0.30          | -<br>0.000359   | ±2.5        | PASS    |
| Band26  | 5MHz      | QPSK       | 26915   | 6RB#0            | VN            | NT               | -0.30          | -<br>0.000359   | ±2.5        | PASS    |
| Band26  | 5MHz      | QPSK       | 26915   | 6RB#0            | VH            | NT               | -0.30          | -<br>0.000359   | ±2.5        | PASS    |

| Temperature |           |            |         |                  |               |                  |                |                 |             |         |
|-------------|-----------|------------|---------|------------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band        | Bandwidth | Modulation | Channel | RB Configuration | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band26      | 5MHz      | QPSK       | 26915   | 6RB#0            | NV            | -30              | -2.50          | -<br>0.002989   | ±2.5        | PASS    |
| Band26      | 5MHz      | QPSK       | 26915   | 6RB#0            | NV            | -20              | -3.90          | -<br>0.004662   | ±2.5        | PASS    |
| Band26      | 5MHz      | QPSK       | 26915   | 6RB#0            | NV            | -10              | -3.50          | -<br>0.004184   | ±2.5        | PASS    |
| Band26      | 5MHz      | QPSK       | 26915   | 6RB#0            | NV            | 0                | 1.70           | 0.002032        | ±2.5        | PASS    |
| Band26      | 5MHz      | QPSK       | 26915   | 6RB#0            | NV            | 10               | 2.10           | 0.002510        | ±2.5        | PASS    |
| Band26      | 5MHz      | QPSK       | 26915   | 6RB#0            | NV            | 20               | -1.10          | -<br>0.001315   | ±2.5        | PASS    |
| Band26      | 5MHz      | QPSK       | 26915   | 6RB#0            | NV            | 30               | -3.40          | -<br>0.004065   | ±2.5        | PASS    |
| Band26      | 5MHz      | QPSK       | 26915   | 6RB#0            | NV            | 40               | -4.60          | -<br>0.005499   | ±2.5        | PASS    |
| Band26      | 5MHz      | QPSK       | 26915   | 6RB#0            | NV            | 50               | -4.20          | -<br>0.005021   | ±2.5        | PASS    |

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