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Rev.: 01

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### 7-7-15MHz-20MHz-256QAM-256QAM-21003-21174-75RB#0-100RB#0



14:35:39 18.04.2022

### 7-7-15MHz-20MHz-256QAM-256QAM-21179-21350-75RB#0-100RB#0



14:37:52 18.04.2022



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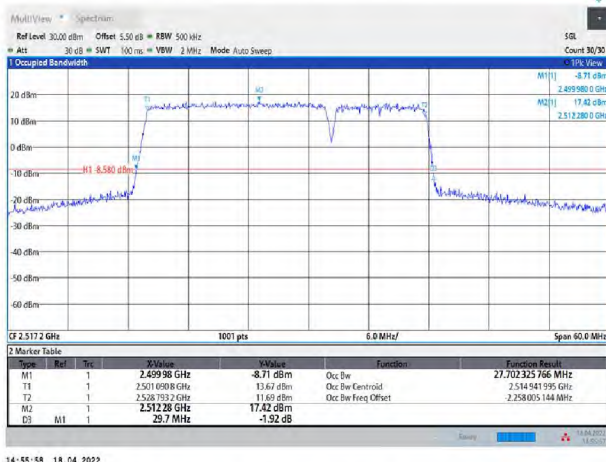
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### 7-7-20MHz-10MHz-QPSK-QPSK-20850-20994-100RB#0-50RB#0



14:55:58 19.04.2022

### 7-7-20MHz-10MHz-QPSK-QPSK-21051-21195-100RB#0-50RB#0



13:34:55 20.04.2022



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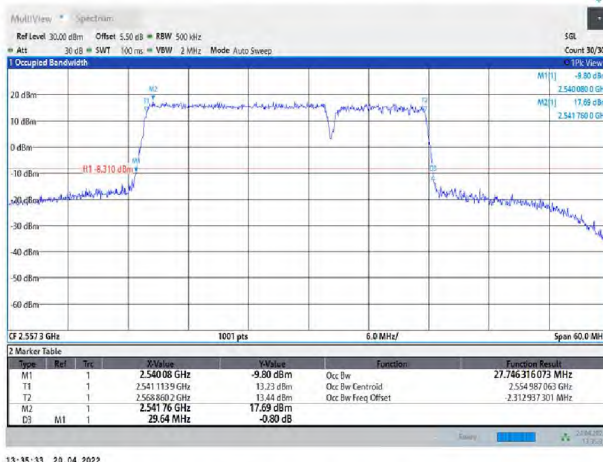
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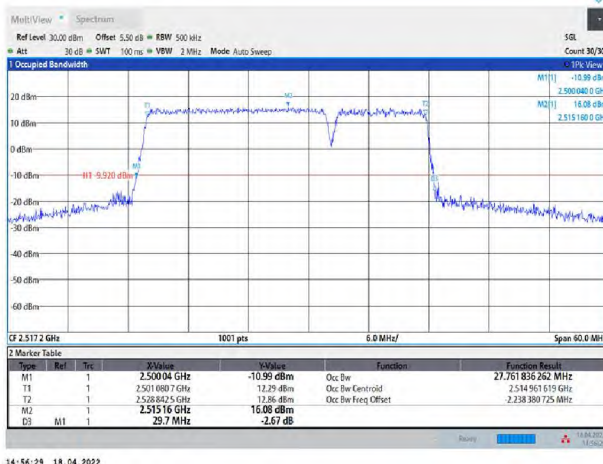
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### 7-7-20MHz-10MHz-QPSK-QPSK-21251-21395-100RB#0-50RB#0



### 7-7-20MHz-10MHz-16QAM-16QAM-20850-20994-100RB#0-50RB#0



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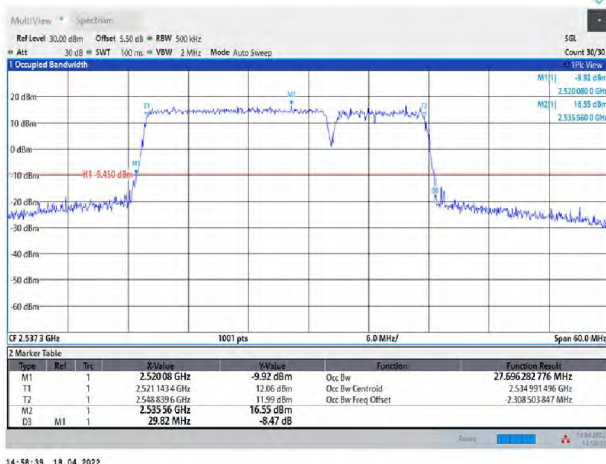
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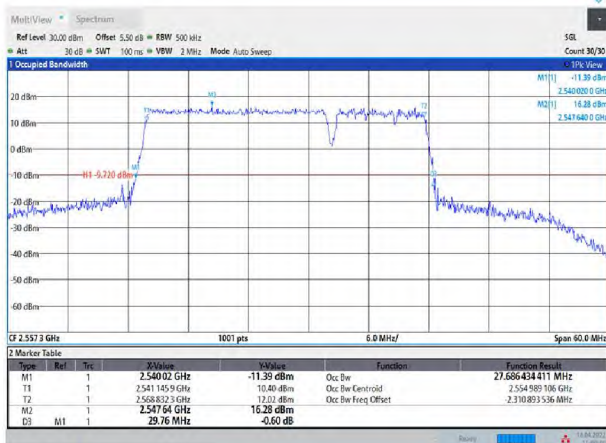
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### 7-7-20MHz-10MHz-16QAM-16QAM-21051-21195-100RB#0-50RB#0



14:58:39 18.04.2022

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15:00:50 18.04.2022



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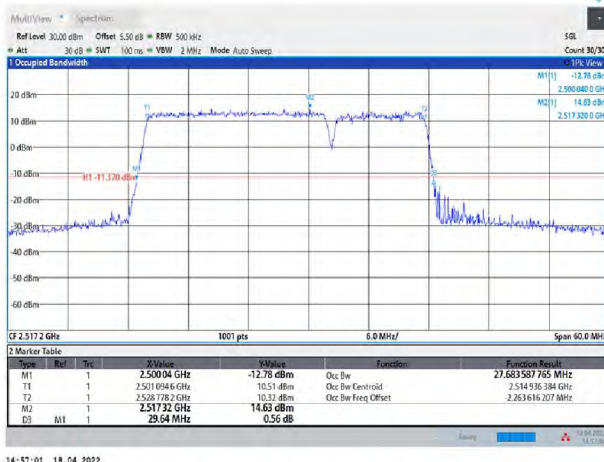
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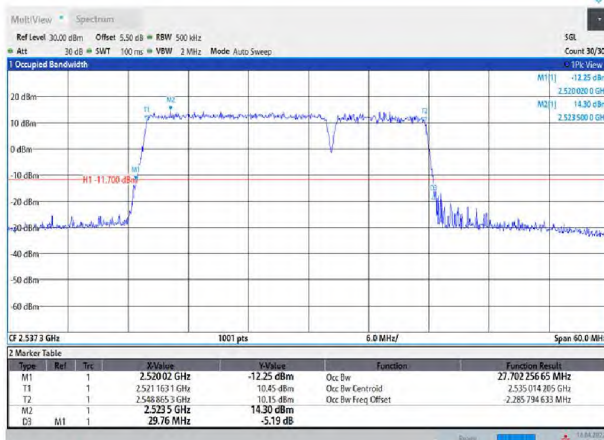
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14:57:01 18.04.2022

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14:59:11 18.04.2022



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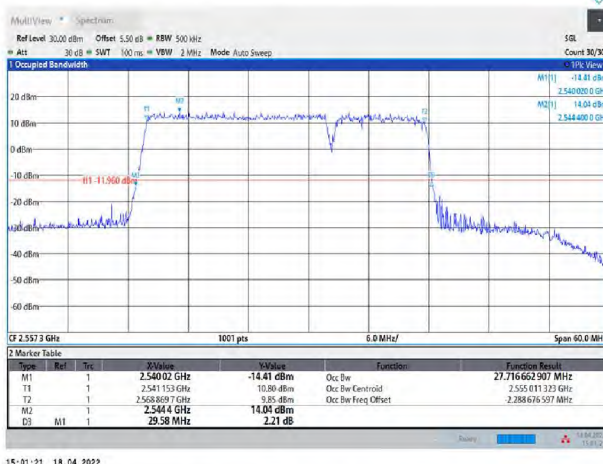
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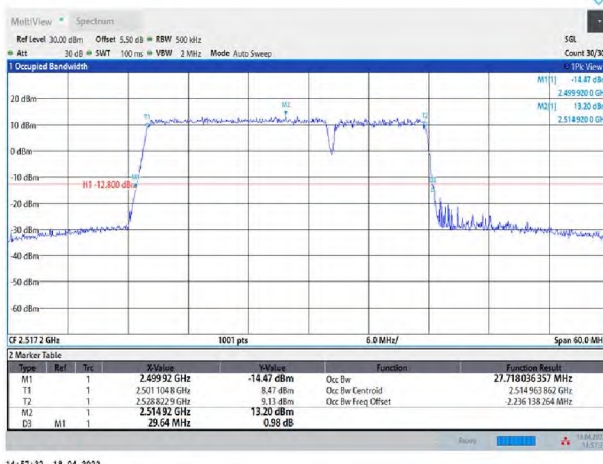
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### 7-7-20MHz-10MHz-64QAM-64QAM-21251-21395-100RB#0-50RB#0



15:01:21 18.04.2022

### 7-7-20MHz-10MHz-256QAM-256QAM-20850-20994-100RB#0-50RB#0



14:57:32 18.04.2022



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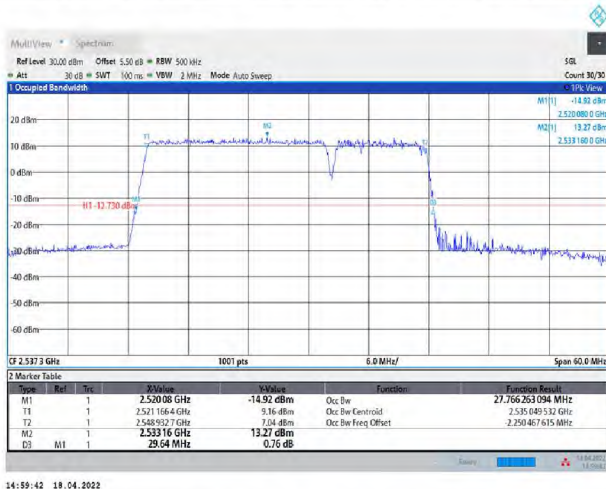
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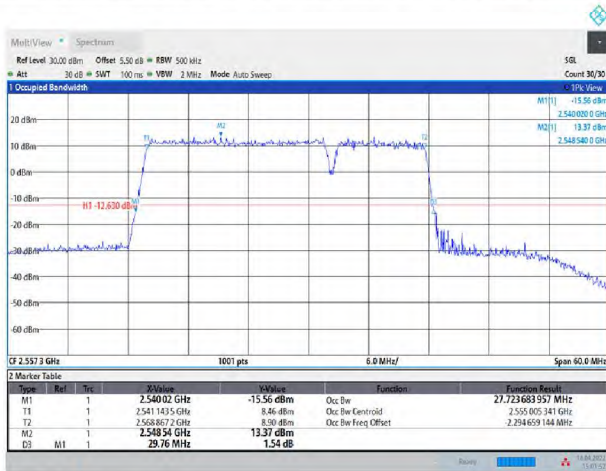
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14:59:42 18.04.2022

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15:01:53 18.04.2022



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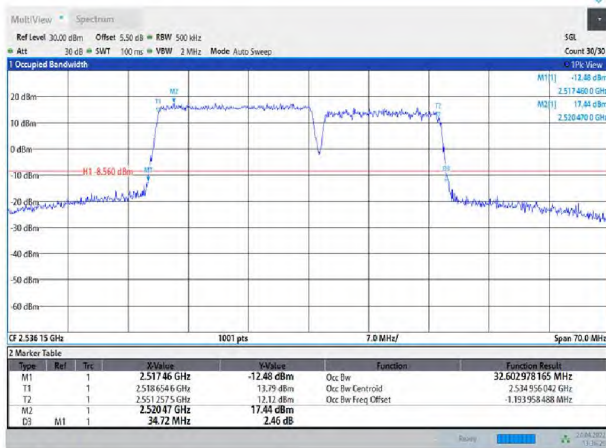
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### 7-7-20MHz-15MHz-QPSK-QPSK-20850-21021-100RB#0-75RB#0



15:18:47 19.04.2022

### 7-7-20MHz-15MHz-QPSK-QPSK-21026-21197-100RB#0-75RB#0



13:36:30 20.04.2022



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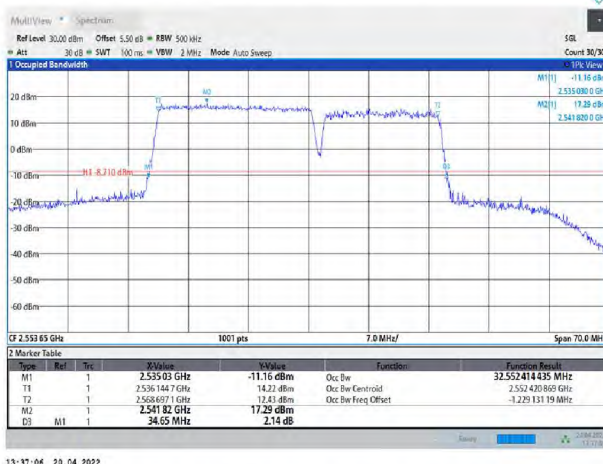
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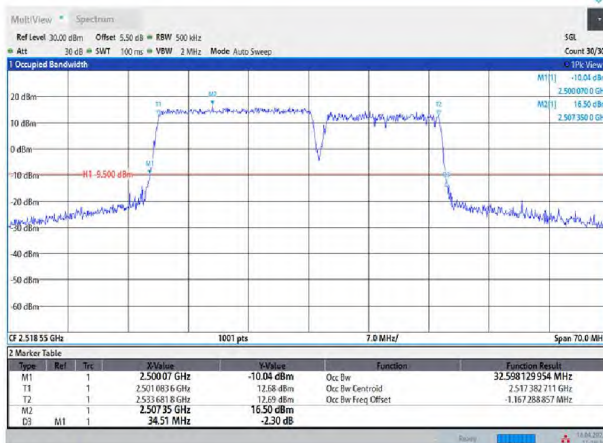
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13:37:06 20.04.2022

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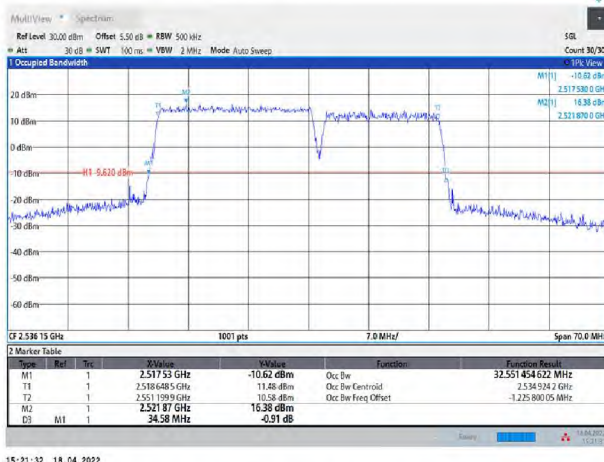
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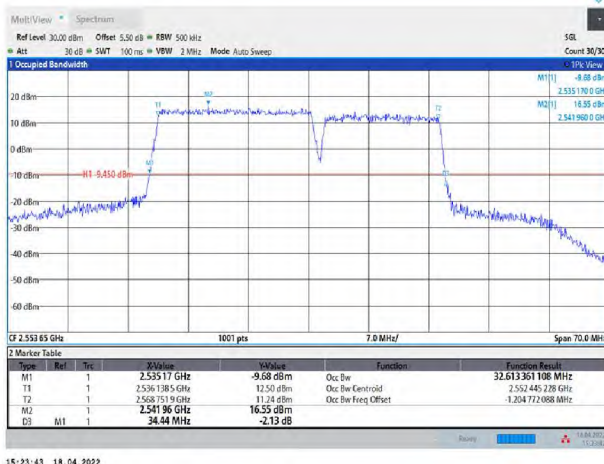
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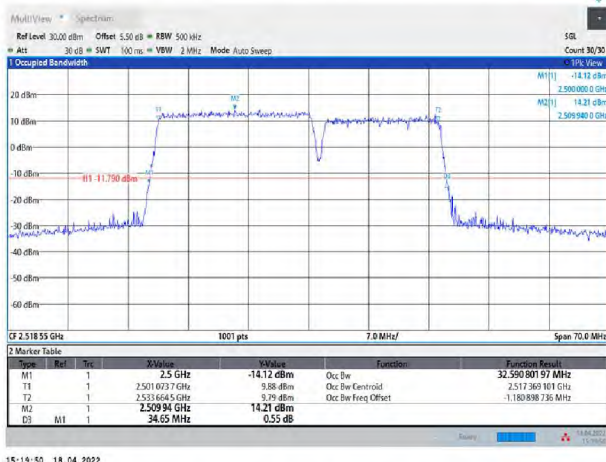
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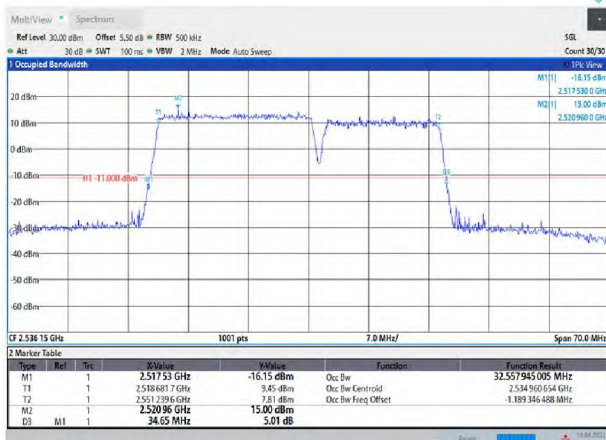
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### 7-7-20MHz-15MHz-64QAM-64QAM-20850-21021-100RB#0-75RB#0



15:19:50 18.04.2022

### 7-7-20MHz-15MHz-64QAM-64QAM-21026-21197-100RB#0-75RB#0



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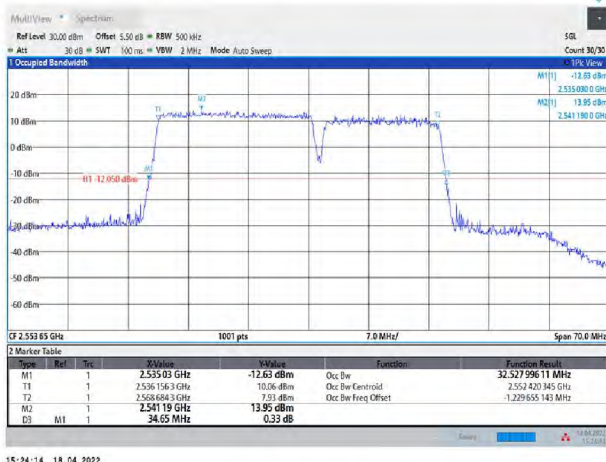
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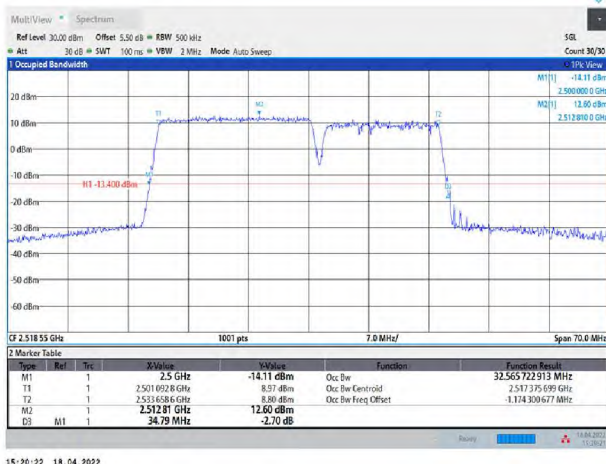
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## 7-7-20MHz-15MHz-64QAM-64QAM-21201-21372-100RB#0-75RB#0



## 7-7-20MHz-15MHz-256QAM-256QAM-20850-21021-100RB#0-75RB#0

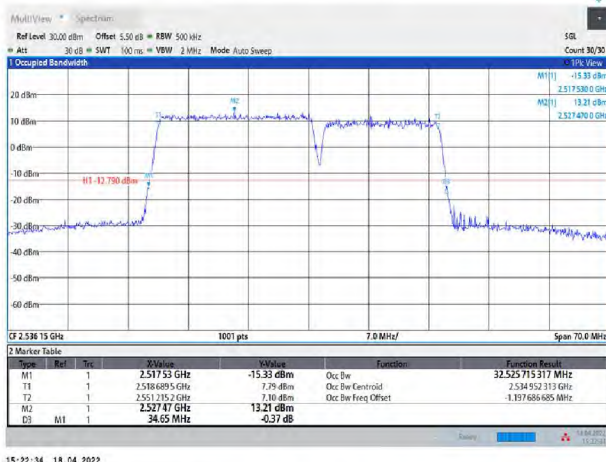


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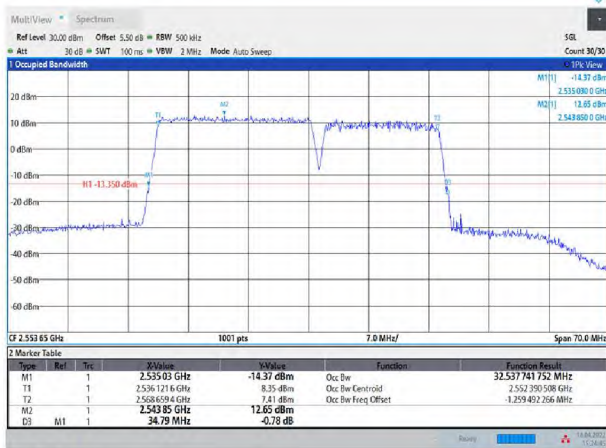
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### 7-7-20MHz-15MHz-256QAM-256QAM-21026-21197-100RB#0-75RB#0



15:11:34 18.04.2022

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15:24:45 18.04.2022



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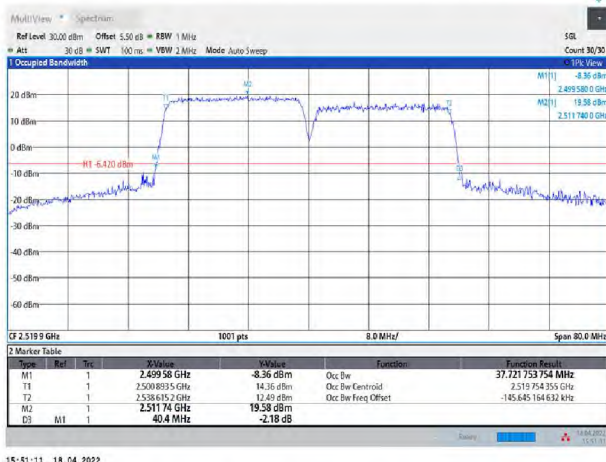
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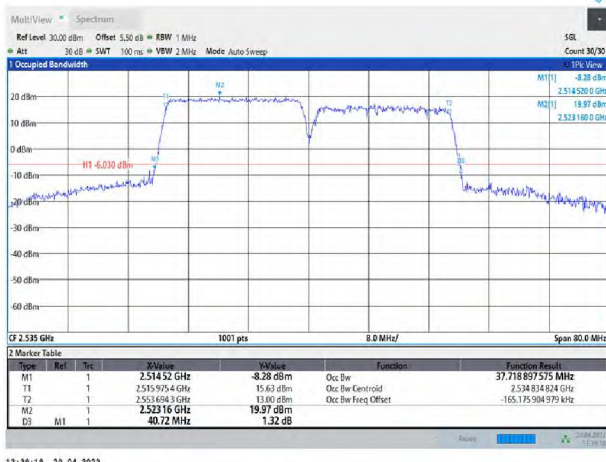
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### 7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-100RB#0-100RB#0



15:51:11 19.04.2022

### 7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-100RB#0-100RB#0



13:39:19 20.04.2022



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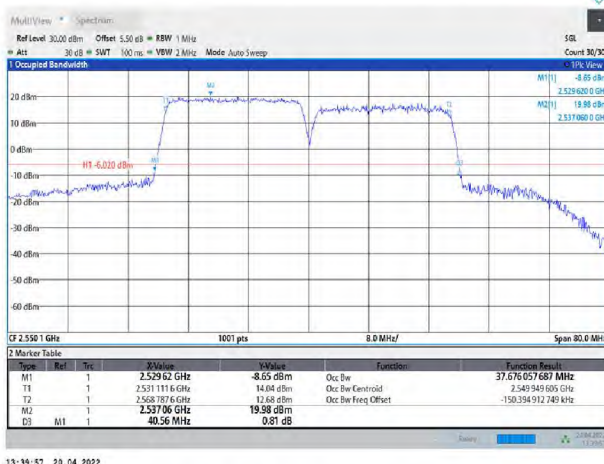
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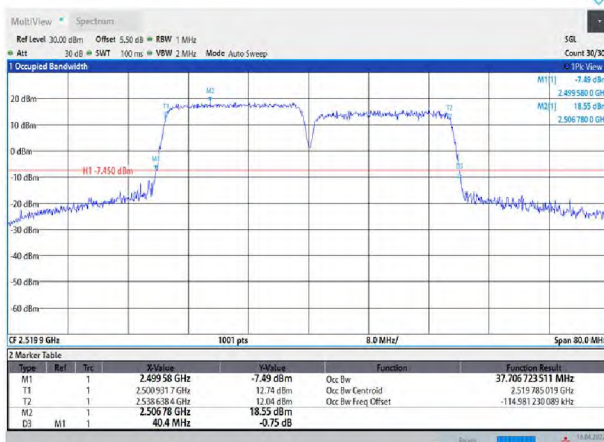
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### 7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-100RB#0-100RB#0



13:39:57 20.04.2022

### 7-7-20MHz-20MHz-16QAM-16QAM-20850-21048-100RB#0-100RB#0



15:51:43 18.04.2022



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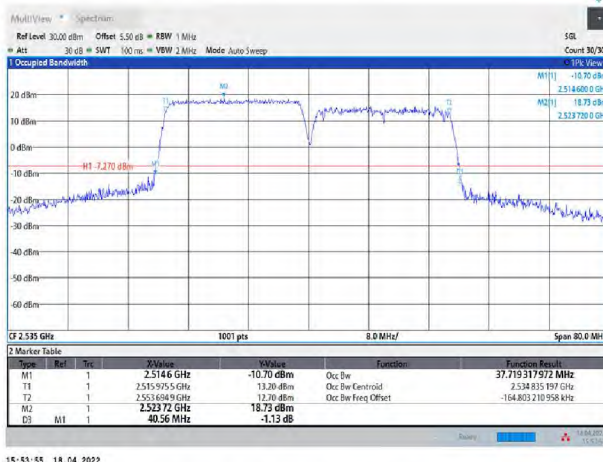
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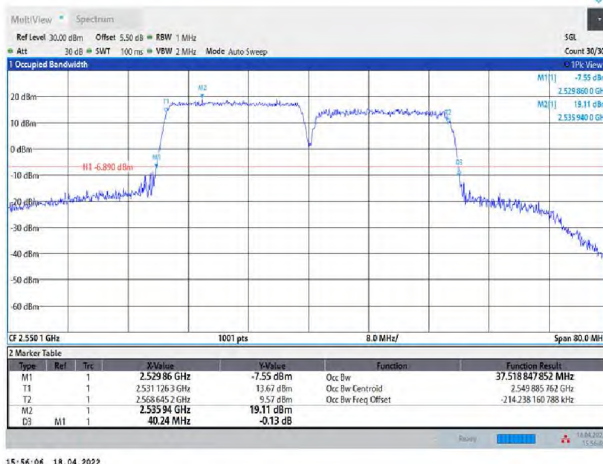
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### 7-7-20MHz-20MHz-16QAM-16QAM-21001-21199-100RB#0-100RB#0



### 7-7-20MHz-20MHz-16QAM-16QAM-21152-21350-100RB#0-100RB#0



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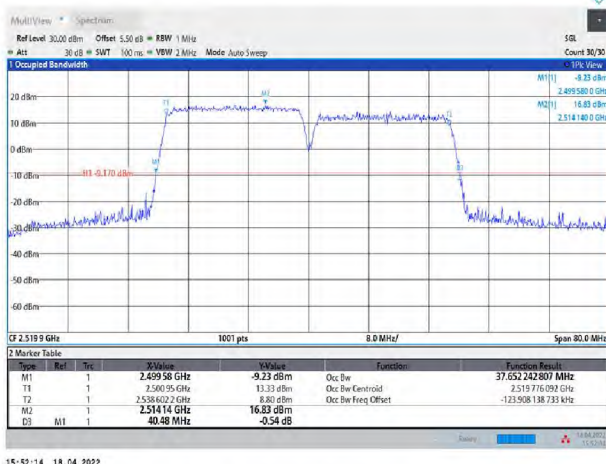
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### 7-7-20MHz-20MHz-64QAM-64QAM-20850-21048-100RB#0-100RB#0



15:52:14 18.04.2022

### 7-7-20MHz-20MHz-64QAM-64QAM-21001-21199-100RB#0-100RB#0



15:54:27 18.04.2022



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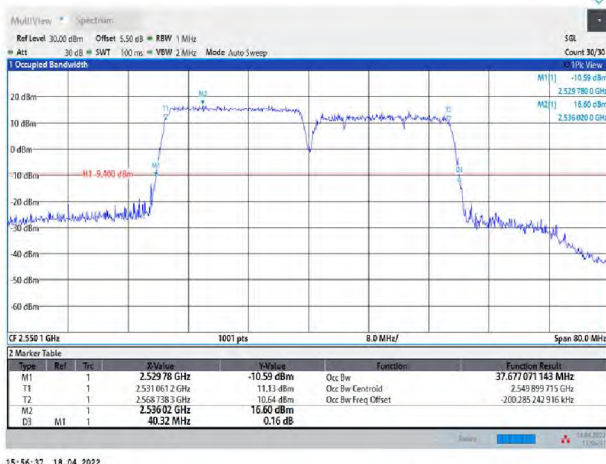
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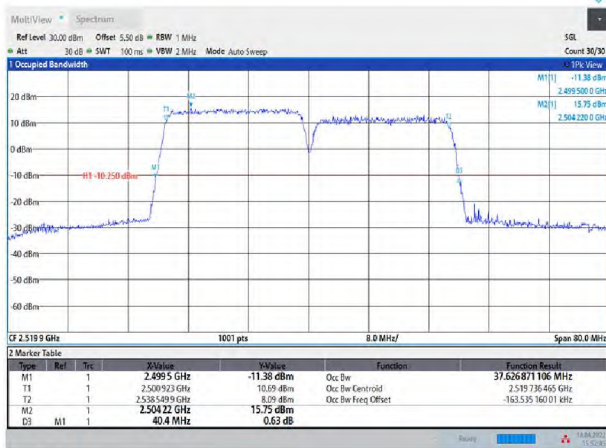
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### 7-7-20MHz-20MHz-64QAM-64QAM-21152-21350-100RB#0-100RB#0



15:54:37 18.04.2022

### 7-7-20MHz-20MHz-256QAM-256QAM-20850-21048-100RB#0-100RB#0



15:52:45 18.04.2022



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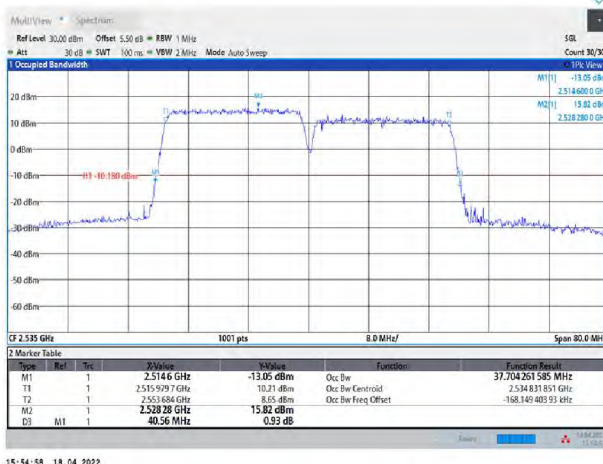
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### 7-7-20MHz-20MHz-256QAM-256QAM-21001-21199-100RB#0-100RB#0



15:54:58 18.04.2022

### 7-7-20MHz-20MHz-256QAM-256QAM-21152-21350-100RB#0-100RB#0



15:57:09 18.04.2022



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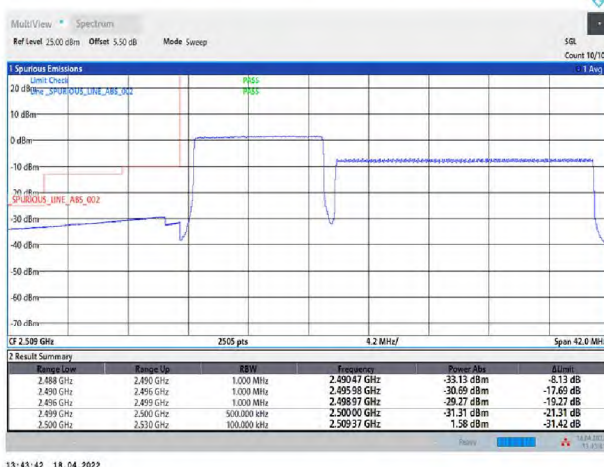
### Band Edge

### Test Graphs

#### 7-7-10MHz-20MHz-QPSK-QPSK-20805-20949-1RB#0-0RB#0



#### 7-7-10MHz-20MHz-QPSK-QPSK-20805-20949-50RB#0-100RB#0

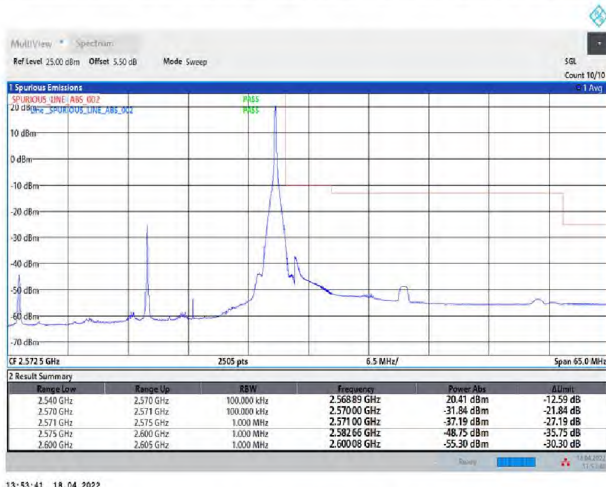


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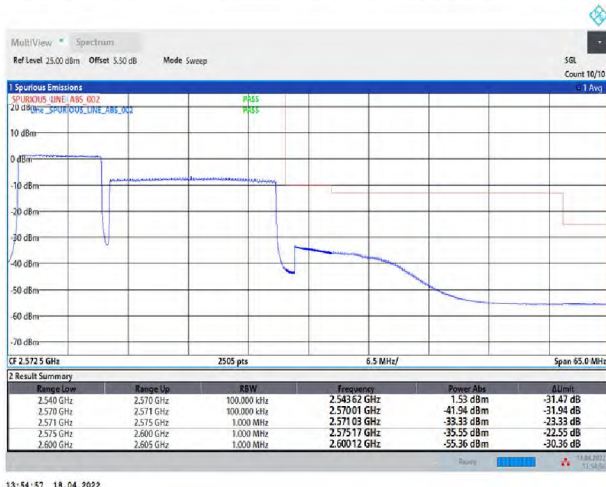
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### 7-7-10MHz-20MHz-QPSK-QPSK-21206-21350-0RB#0-1RB#99



### 7-7-10MHz-20MHz-QPSK-QPSK-21206-21350-50RB#0-100RB#0



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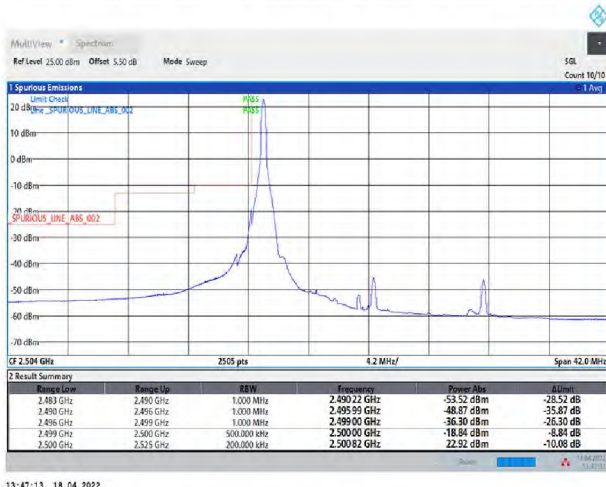
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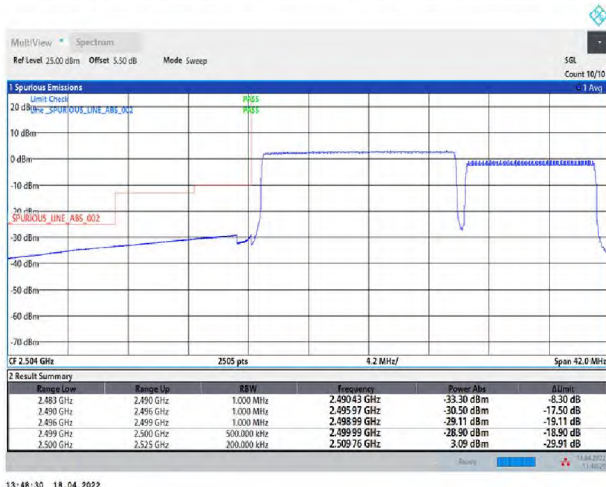
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### 7-7-15MHz-10MHz-QPSK-QPSK-20825-20945-1RB#0-0RB#0



13:47:13 18.04.2022

### 7-7-15MHz-10MHz-QPSK-QPSK-20825-20945-75RB#0-50RB#0



13:48:30 18.04.2022



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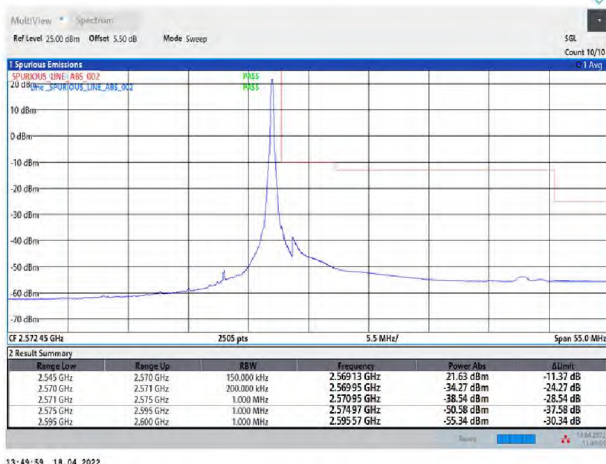
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### 7-7-15MHz-10MHz-QPSK-QPSK-21277-21397-0RB#0-1RB#49



13:49:59 18.04.2022

### 7-7-15MHz-10MHz-QPSK-QPSK-21277-21397-75RB#0-50RB#0



13:51:15 18.04.2022



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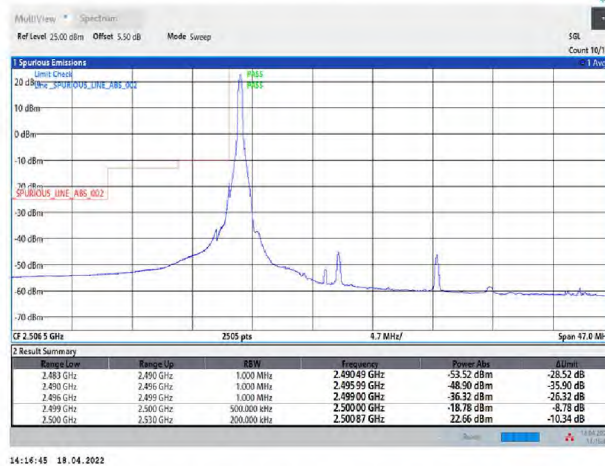
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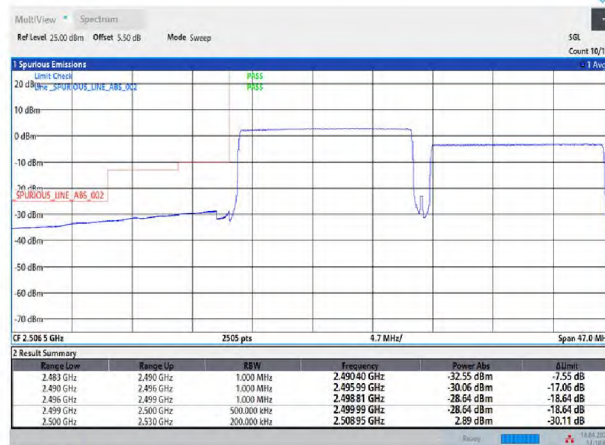
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### 7-7-15MHz-15MHz-QPSK-QPSK-20825-20975-1RB#0-0RB#0



14:16:45 18.04.2022

### 7-7-15MHz-15MHz-QPSK-QPSK-20825-20975-75RB#0-75RB#0



14:18:01 18.04.2022



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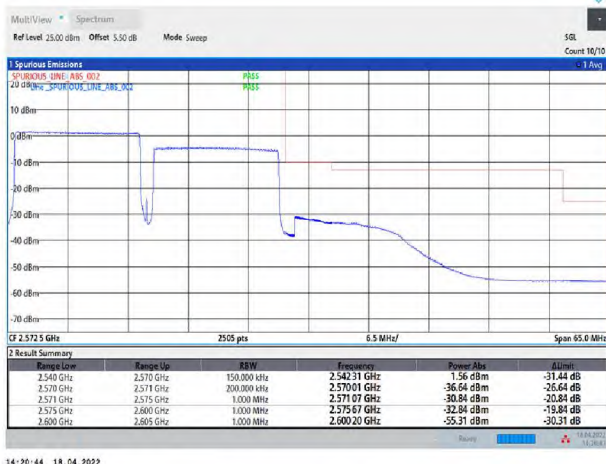
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### 7-7-15MHz-15MHz-QPSK-QPSK-21225-21375-0RB#0-1RB#74



### 7-7-15MHz-15MHz-QPSK-QPSK-21225-21375-75RB#0-75RB#0



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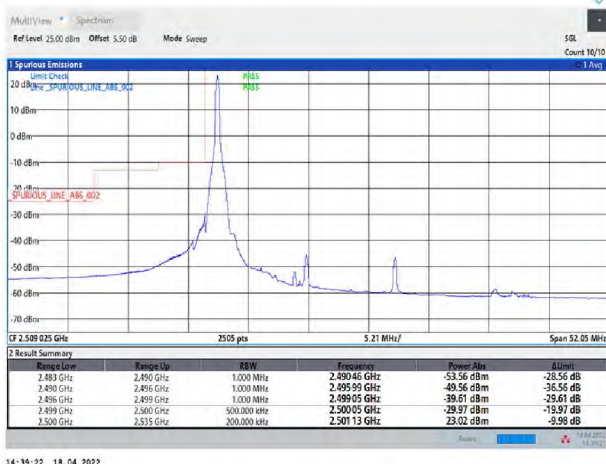
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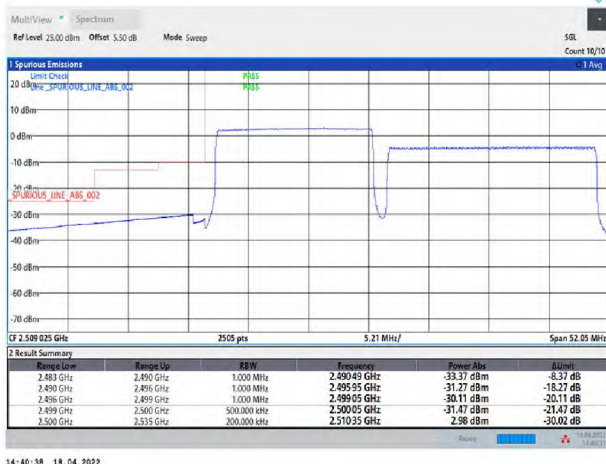
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### 7-7-15MHz-20MHz-QPSK-QPSK-20828-20999-1RB#0-0RB#0



### 7-7-15MHz-20MHz-QPSK-QPSK-20828-20999-75RB#0-100RB#0



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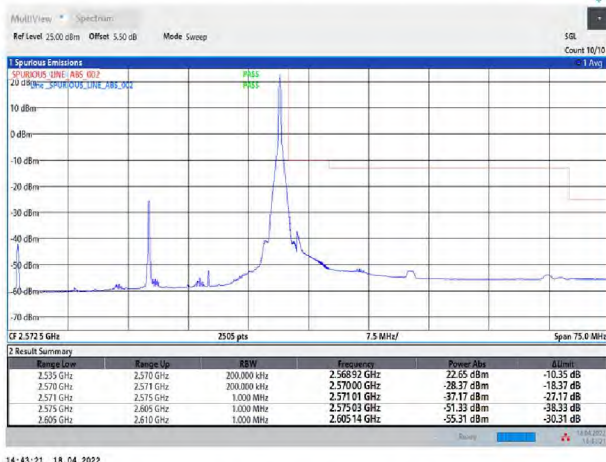
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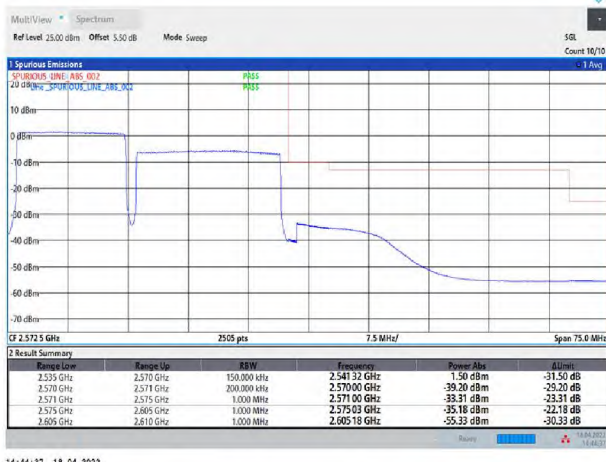
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### 7-7-15MHz-20MHz-QPSK-QPSK-21179-21350-0RB#0-1RB#99



14:43:21 18.04.2022

### 7-7-15MHz-20MHz-QPSK-QPSK-21179-21350-75RB#0-100RB#0



14:44:37 18.04.2022



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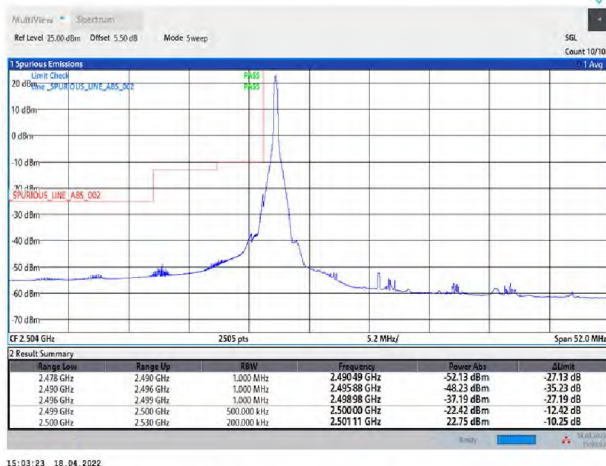
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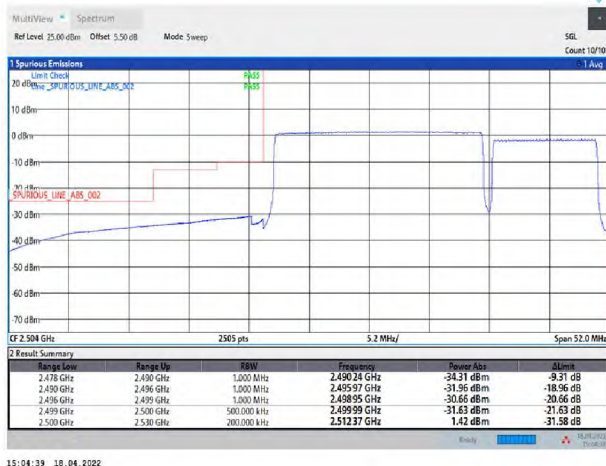
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### 7-7-20MHz-10MHz-QPSK-QPSK-20850-20994-1RB#0-0RB#0



### 7-7-20MHz-10MHz-QPSK-QPSK-20850-20994-100RB#0-50RB#0



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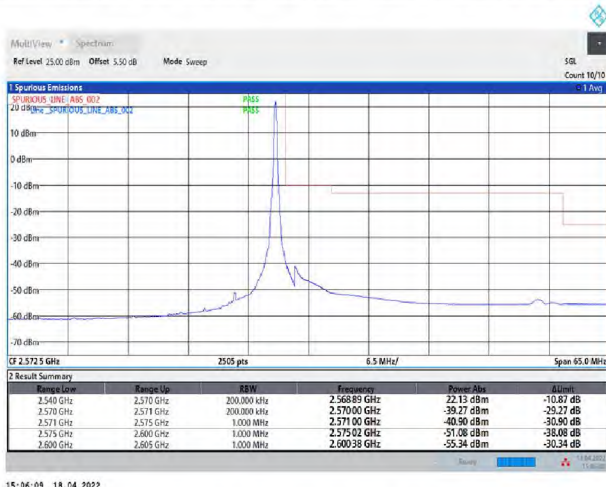
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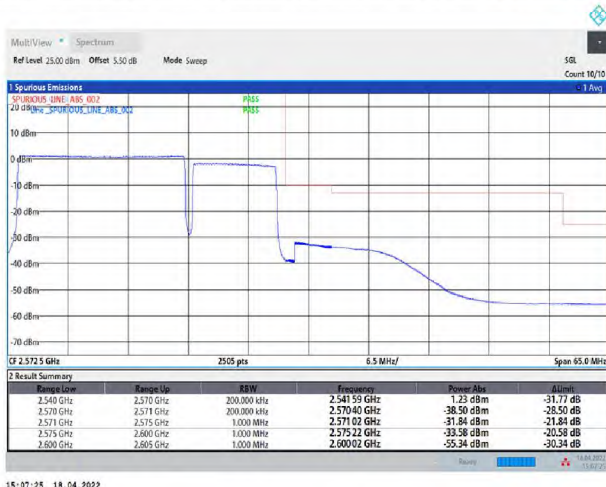
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### 7-7-20MHz-10MHz-QPSK-QPSK-21251-21395-0RB#0-1RB#49



### 7-7-20MHz-10MHz-QPSK-QPSK-21251-21395-100RB#0-50RB#0



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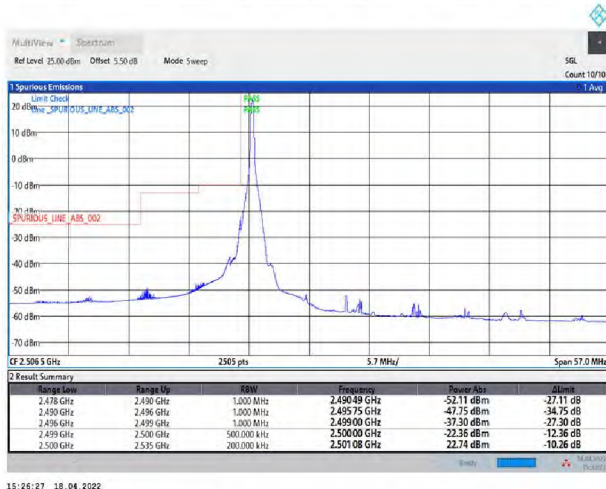
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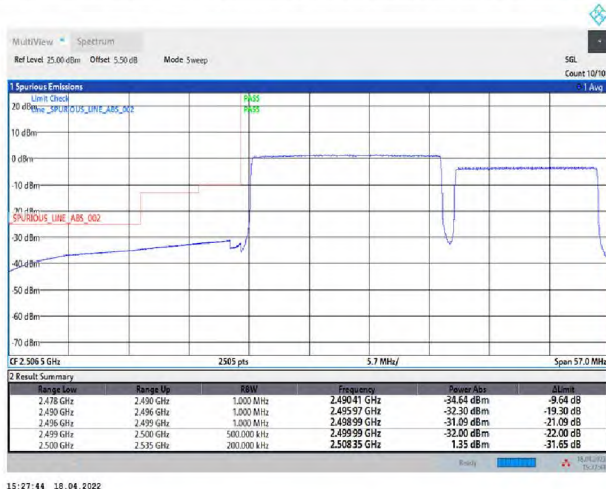
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### 7-7-20MHz-15MHz-QPSK-QPSK-20850-21021-1RB#0-0RB#0



### 7-7-20MHz-15MHz-QPSK-QPSK-20850-21021-100RB#0-75RB#0



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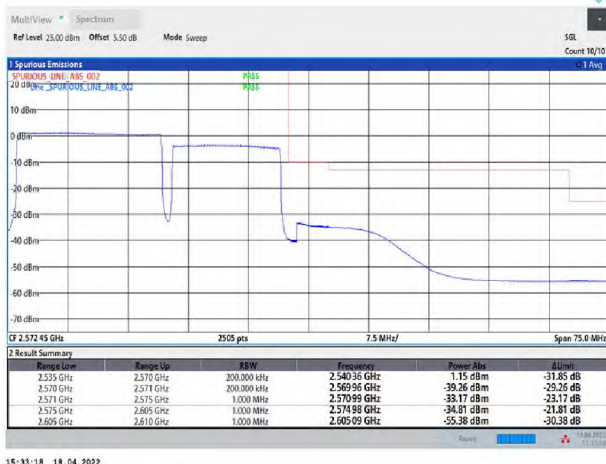
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### 7-7-20MHz-15MHz-QPSK-QPSK-21201-21372-0RB#0-1RB#74



### 7-7-20MHz-15MHz-QPSK-QPSK-21201-21372-100RB#0-75RB#0



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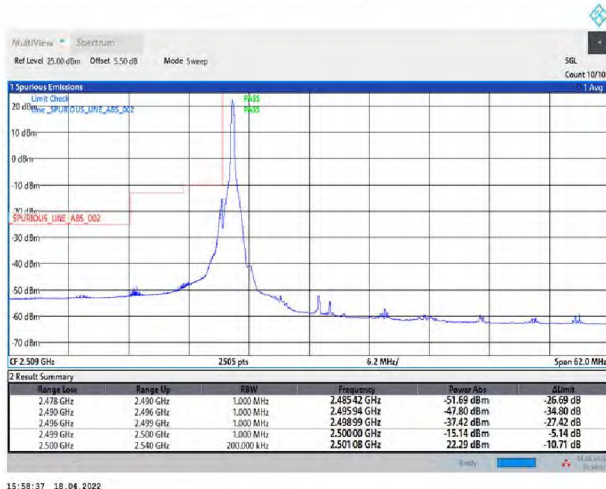
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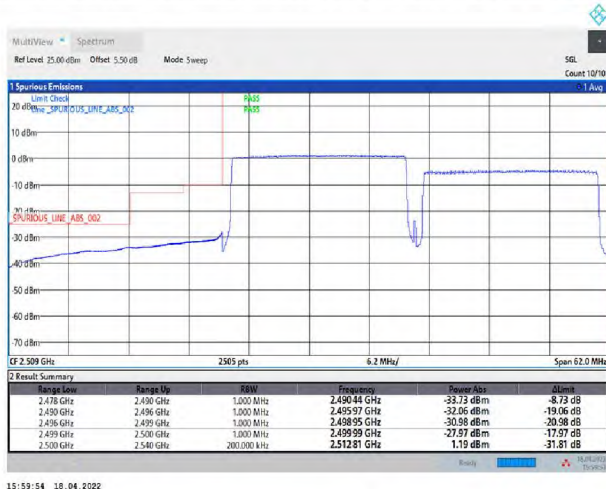
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### 7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0



### 7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-100RB#0-100RB#0



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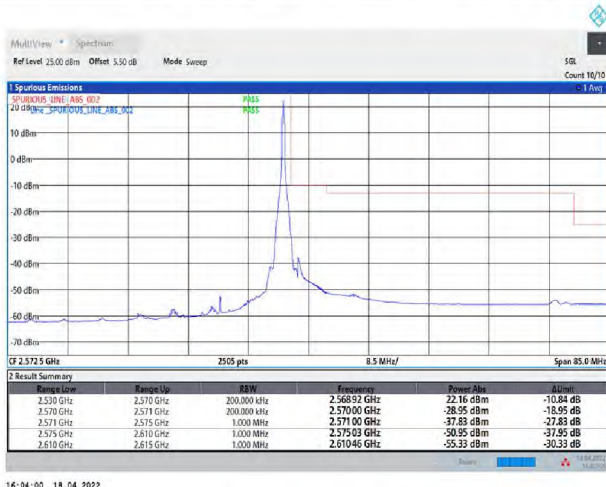
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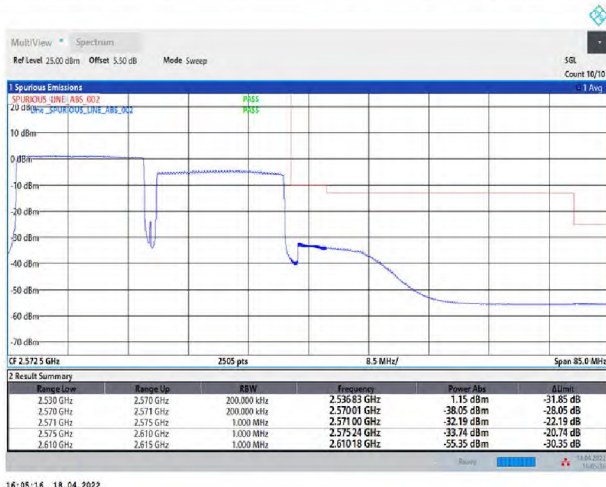
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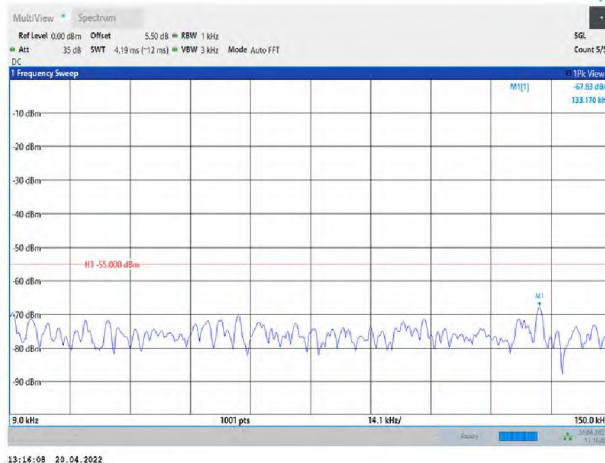
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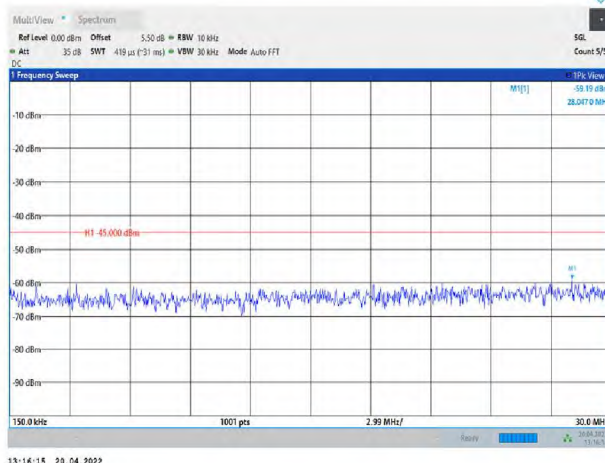
### Conducted Spurious Emission

#### Test Graphs

7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-0.009~0.15MHz



7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-0.15~30MHz



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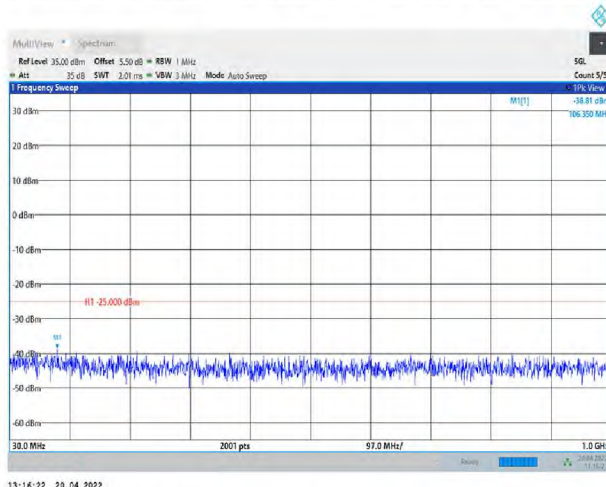
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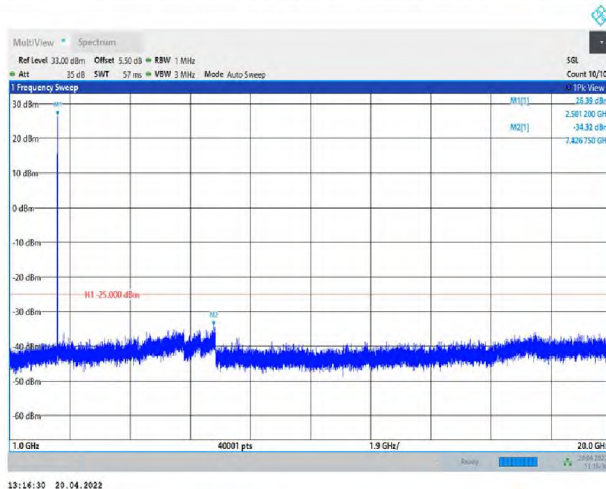
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### 7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-30~1000MHz



### 7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-1000~20000MHz



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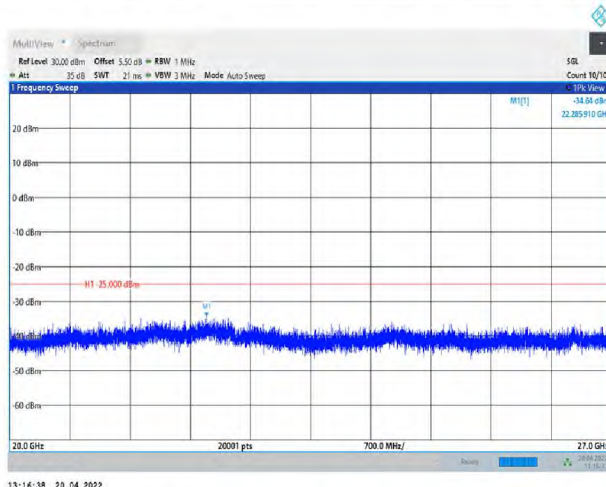
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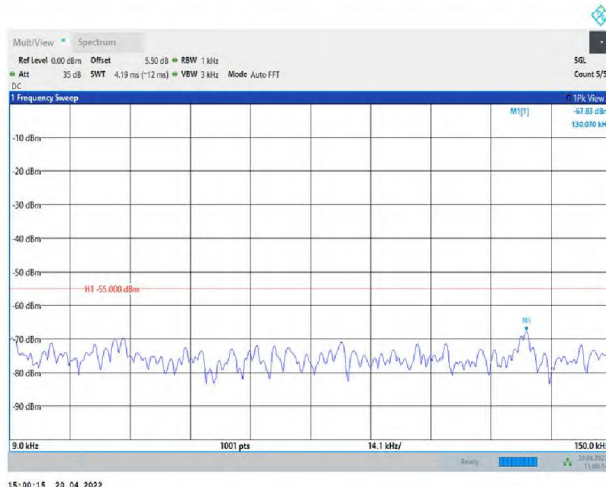
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### 7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0-20000~27000MHz



### 7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-0.009~0.15MHz



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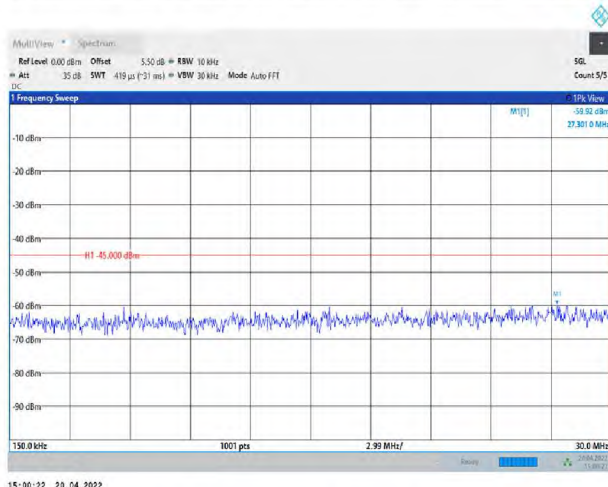
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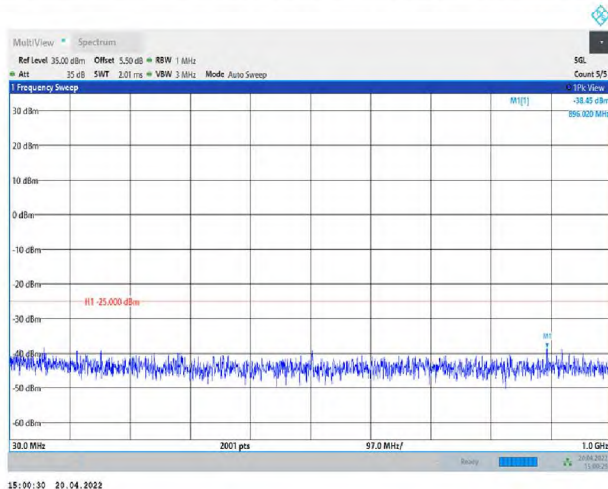
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### 7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-0.15~30MHz



### 7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-30~1000MHz



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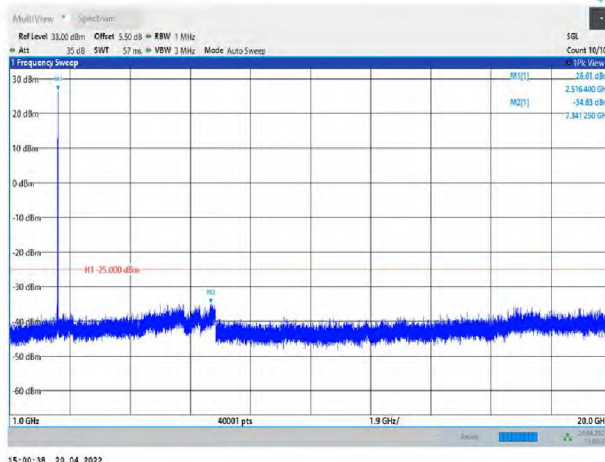
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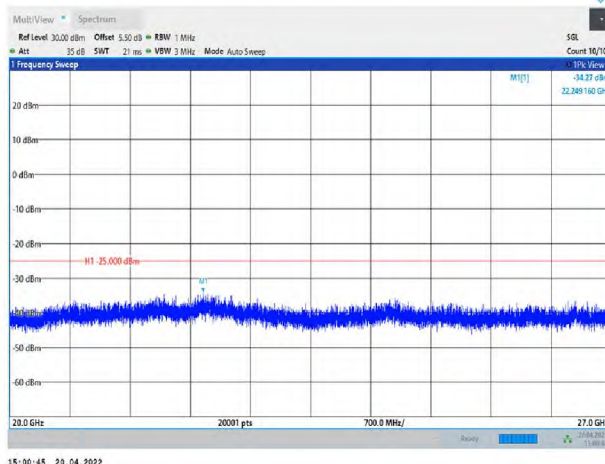
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### 7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-1000~20000MHz



### 7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-20000~27000MHz



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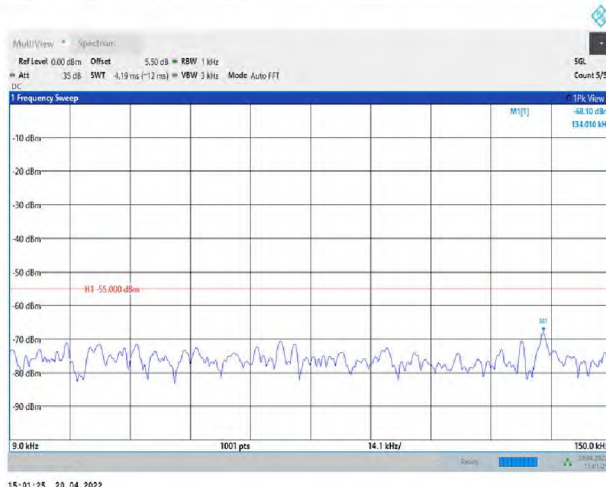
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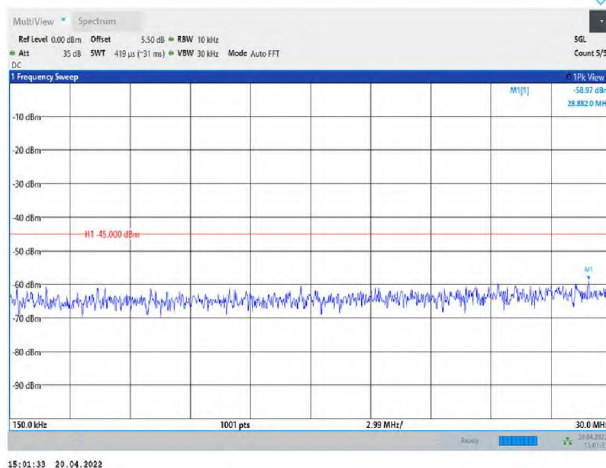
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### 7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-0.009~0.15MHz



### 7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-0.15~30MHz



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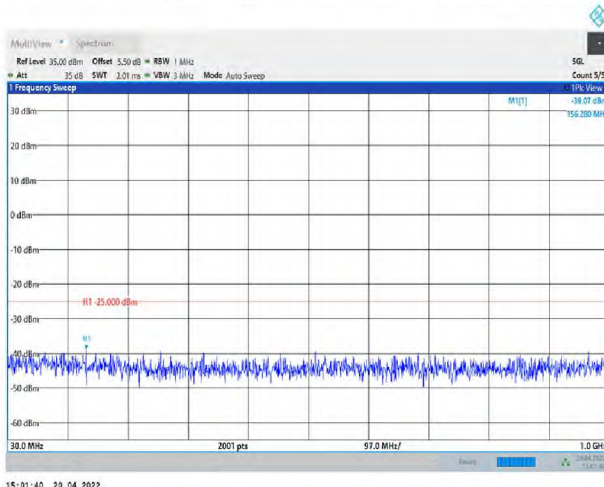
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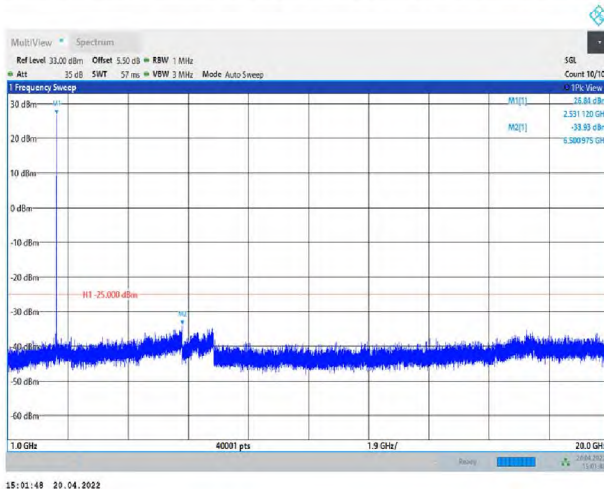
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### 7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-30~1000MHz



### 7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-1000~20000MHz



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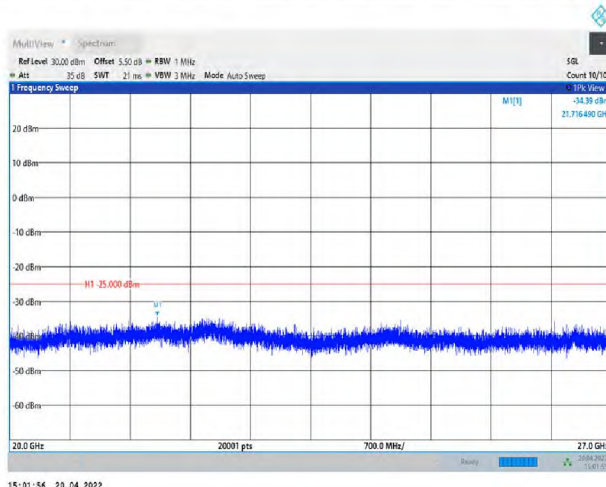


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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-20000~27000MHz



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## Field Strength of Spurious Radiation

**Test Band = UL CA Band 7C\_ TM1**

**Test Channel = Low Channel**

| Final Data List |                 |                |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 5002.18         | 49.80          | -107.58     | -57.78      | -25.00      | 32.78       | 263         | 360       | Horizontal |
| 2               | 7503.27         | 49.27          | -100.34     | -51.07      | -25.00      | 26.07       | 251         | 198       | Horizontal |
| 3               | 10004.36        | 45.02          | -93.89      | -48.87      | -25.00      | 23.87       | 174         | 175       | Horizontal |
| 4               | 12505.45        | 44.43          | -91.38      | -46.95      | -25.00      | 21.95       | 262         | 3         | Horizontal |
| 5               | 15006.54        | 42.92          | -90.07      | -47.15      | -25.00      | 22.15       | 284         | 359       | Horizontal |
| 6               | 17507.63        | 39.91          | -86.50      | -46.59      | -25.00      | 21.59       | 176         | 139       | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 5002.18         | 50.48          | -107.58     | -57.10      | -25.00      | 32.10       | 263         | 312       | Vertical |
| 2               | 7503.27         | 48.89          | -100.34     | -51.45      | -25.00      | 26.45       | 241         | 278       | Vertical |
| 3               | 10004.36        | 44.83          | -93.89      | -49.06      | -25.00      | 24.06       | 176         | 360       | Vertical |
| 4               | 12505.45        | 45.35          | -91.38      | -46.03      | -25.00      | 21.03       | 294         | 150       | Vertical |
| 5               | 15006.54        | 42.62          | -90.07      | -47.45      | -25.00      | 22.45       | 186         | 255       | Vertical |
| 6               | 17507.63        | 39.75          | -86.50      | -46.75      | -25.00      | 21.75       | 124         | 278       | Vertical |



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**Test Band = UL CA Band 7C\_ TM1**

**Test Channel = Mid Channel**

| Final Data List |                 |                |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 5032.38         | 50.66          | -107.38     | -56.72      | -25.00      | 31.72       | 263         | 242       | Horizontal |
| 2               | 7548.27         | 47.97          | -100.09     | -52.12      | -25.00      | 27.12       | 241         | 356       | Horizontal |
| 3               | 10064.76        | 44.29          | -93.62      | -49.33      | -25.00      | 24.33       | 176         | 11        | Horizontal |
| 4               | 12580.95        | 44.18          | -90.74      | -46.56      | -25.00      | 21.56       | 251         | 360       | Horizontal |
| 5               | 15097.14        | 42.97          | -90.54      | -47.57      | -25.00      | 22.57       | 148         | 56        | Horizontal |
| 6               | 17613.33        | 41.09          | -85.88      | -44.79      | -25.00      | 19.79       | 162         | 138       | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 5032.38         | 51.17          | -107.38     | -56.21      | -25.00      | 31.21       | 263         | 3         | Vertical |
| 2               | 7548.27         | 49.14          | -100.09     | -50.95      | -25.00      | 25.95       | 251         | 11        | Vertical |
| 3               | 10064.76        | 43.95          | -93.62      | -49.67      | -25.00      | 24.67       | 174         | 22        | Vertical |
| 4               | 12580.95        | 43.35          | -90.74      | -47.39      | -25.00      | 22.39       | 162         | 11        | Vertical |
| 5               | 15097.14        | 42.50          | -90.54      | -48.04      | -25.00      | 23.04       | 284         | 3         | Vertical |
| 6               | 17613.33        | 41.14          | -85.88      | -44.74      | -25.00      | 19.74       | 166         | 128       | Vertical |



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**Test Band = UL CA Band 7C\_ TM1**

**Test Channel = High Channel**

| Final Data List |                 |                |             |             |             |             |             |           |            |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1               | 5062.58         | 50.14          | -107.19     | -57.05      | -25.00      | 32.05       | 263         | 360       | Horizontal |
| 2               | 7593.87         | 49.50          | -99.85      | -50.35      | -25.00      | 25.35       | 251         | 277       | Horizontal |
| 3               | 10125.16        | 45.40          | -93.36      | -47.96      | -25.00      | 22.96       | 174         | 58        | Horizontal |
| 4               | 12656.45        | 44.05          | -90.88      | -46.83      | -25.00      | 21.83       | 262         | 356       | Horizontal |
| 5               | 15187.74        | 42.40          | -89.00      | -46.60      | -25.00      | 21.60       | 254         | 4         | Horizontal |
| 6               | 17719.03        | 40.68          | -84.72      | -44.04      | -25.00      | 19.04       | 178         | 82        | Horizontal |

| Final Data List |                 |                |             |             |             |             |             |           |          |
|-----------------|-----------------|----------------|-------------|-------------|-------------|-------------|-------------|-----------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | Level [dBm] | Limit [dBm] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
| 1               | 5062.58         | 50.44          | -107.19     | -56.75      | -25.00      | 31.75       | 263         | 113       | Vertical |
| 2               | 7593.87         | 49.21          | -99.85      | -50.64      | -25.00      | 25.64       | 251         | 360       | Vertical |
| 3               | 10125.16        | 45.03          | -93.36      | -48.33      | -25.00      | 23.33       | 174         | 3         | Vertical |
| 4               | 12656.45        | 43.69          | -90.88      | -47.19      | -25.00      | 22.19       | 264         | 359       | Vertical |
| 5               | 15187.74        | 42.53          | -89.00      | -46.47      | -25.00      | 21.47       | 188         | 11        | Vertical |
| 6               | 17719.03        | 40.90          | -84.72      | -43.82      | -25.00      | 18.82       | 264         | 148       | 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8号厂房南楼 邮编: 215000 t (86-512) 62992980 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## Frequency Stability

### Test Result

| Band | Bandwidth   | Modulation | Channel     | RB Configure    | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|------|-------------|------------|-------------|-----------------|---------------|------------------|----------------|-----------------|---------|
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | VH            | NT               | 47.60          | 0.018851        | PASS    |
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | VL            | NT               | 57.20          | 0.022653        | PASS    |
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | VN            | NT               | 50.00          | 0.019801        | PASS    |

| Band | Bandwidth   | Modulation | Channel     | RB Configure    | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|------|-------------|------------|-------------|-----------------|---------------|------------------|----------------|-----------------|---------|
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | NV            | -30              | 50.70          | 0.020078        | PASS    |
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | NV            | -20              | 49.60          | 0.019643        | PASS    |
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | NV            | -10              | 48.50          | 0.019207        | PASS    |
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | NV            | 0                | 53.40          | 0.021148        | PASS    |
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | NV            | 10               | 41.10          | 0.016277        | PASS    |
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | NV            | 20               | 52.20          | 0.020672        | PASS    |
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | NV            | 30               | 46.90          | 0.018574        | PASS    |
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | NV            | 40               | 65.80          | 0.026058        | PASS    |
| 7-7  | 20MHz-20MHz | QPSK-QPSK  | 21001-21199 | 100RB#0-100RB#0 | NV            | 50               | 37.50          | 0.014851        | PASS    |

The End



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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8号厂房南楼 邮编：215000

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