



**SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch**

EMC-ARF-05 Rev 1.1

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FCC ID: P8XRH14V3-A

# Appendix -

## Test Data and Result for report

### GZCR250400053501 (D)

(For UHF-3: 450-512MHz)



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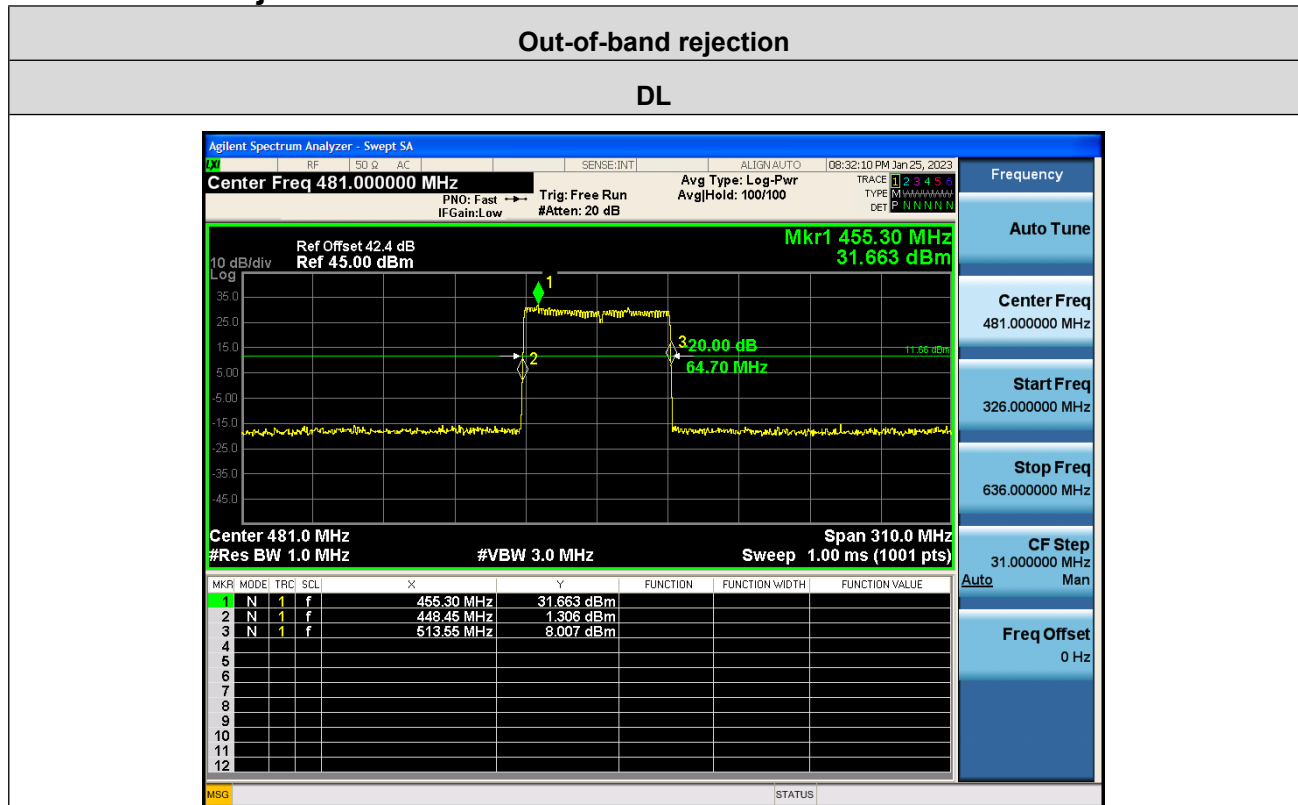
SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch, EMC Laboratory

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### 1 Out-of-band rejection



1. The peak of the frequency response  $f_0$  is 455.3MHz.
2. The frequency point  $f_0$  with the highest power level fall in the CMRS band, EUT is compiled the KDB 935210 D05 Signal Booster Measurements v01r04 Out-of-band rejection verification test requirement.
3. AGC threshold level was measured as below:

| Test Path | Test Signal | Test Channel | AGC threshold level |
|-----------|-------------|--------------|---------------------|
| DL        | FM          | MCH          | -58.75dBm           |
|           | DMR         | MCH          | -58.75dBm           |
|           | C4FM        | MCH          | -58.70dBm           |
|           | H-DQPSK     | MCH          | -58.70dBm           |
|           | TETRA       | MCH          | -58.80dBm           |

## 2 Input-versus-output signal comparison

| Occupied Bandwidth |             |              |               |         |
|--------------------|-------------|--------------|---------------|---------|
| Test Path          | Test Signal | Test Channel | Signal Level  | Verdict |
| DL                 | FM          | LCH          | Pre-AGC       | PASS    |
|                    |             |              | 3dB above AGC | PASS    |
|                    |             | MCH          | Pre-AGC       | PASS    |
|                    |             |              | 3dB above AGC | PASS    |
|                    |             | HCH          | Pre-AGC       | PASS    |
|                    |             |              | 3dB above AGC | PASS    |
|                    | DMR         | LCH          | Pre-AGC       | PASS    |
|                    |             |              | 3dB above AGC | PASS    |
|                    |             | MCH          | Pre-AGC       | PASS    |
|                    |             |              | 3dB above AGC | PASS    |
|                    |             | HCH          | Pre-AGC       | PASS    |
|                    |             |              | 3dB above AGC | PASS    |
|                    | C4FM        | LCH          | Pre-AGC       | PASS    |
|                    |             |              | 3dB above AGC | PASS    |
|                    |             | MCH          | Pre-AGC       | PASS    |
|                    |             |              | 3dB above AGC | PASS    |
|                    |             | HCH          | Pre-AGC       | PASS    |
|                    |             |              | 3dB above AGC | PASS    |
|                    | H-DQPSK     | LCH          | Pre-AGC       | PASS    |
|                    |             |              | 3dB above AGC | PASS    |
|                    |             | MCH          | Pre-AGC       | PASS    |
|                    |             |              | 3dB above AGC | PASS    |
|                    |             | HCH          | Pre-AGC       | PASS    |
|                    |             |              | 3dB above AGC | PASS    |

### Remark:

Compare the spectral plot of the input signal to the output signal affirm that there is no change in the occupied bandwidth of the retransmitted signals. The test result complies with the requirement.



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| Occupied Bandwidth                                                                                                                                                                                                  |             |              |               |         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|---------------|---------|
| Test Path                                                                                                                                                                                                           | Test Signal | Test Channel | Signal Level  | Verdict |
| DL                                                                                                                                                                                                                  | TETRA       | LCH          | Pre-AGC       | PASS    |
|                                                                                                                                                                                                                     |             |              | 3dB above AGC | PASS    |
|                                                                                                                                                                                                                     |             | MCH          | Pre-AGC       | PASS    |
|                                                                                                                                                                                                                     |             |              | 3dB above AGC | PASS    |
|                                                                                                                                                                                                                     |             | HCH          | Pre-AGC       | PASS    |
|                                                                                                                                                                                                                     |             |              | 3dB above AGC | PASS    |
| Remark:<br>Compare the spectral plot of the input signal to the output signal affirm that there is no change in the occupied bandwidth of the retransmitted signals. The test result complies with the requirement. |             |              |               |         |

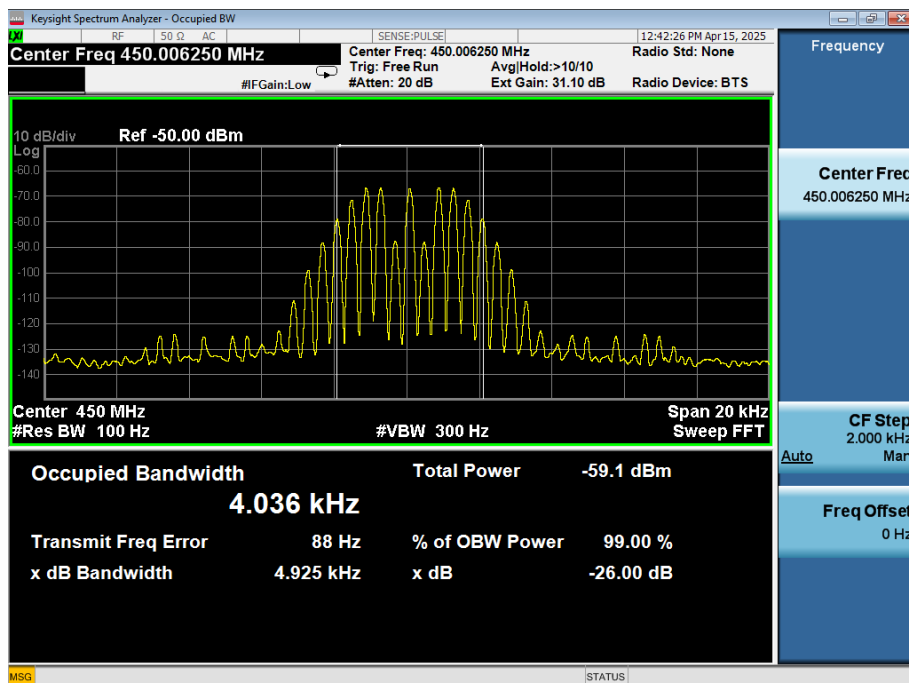


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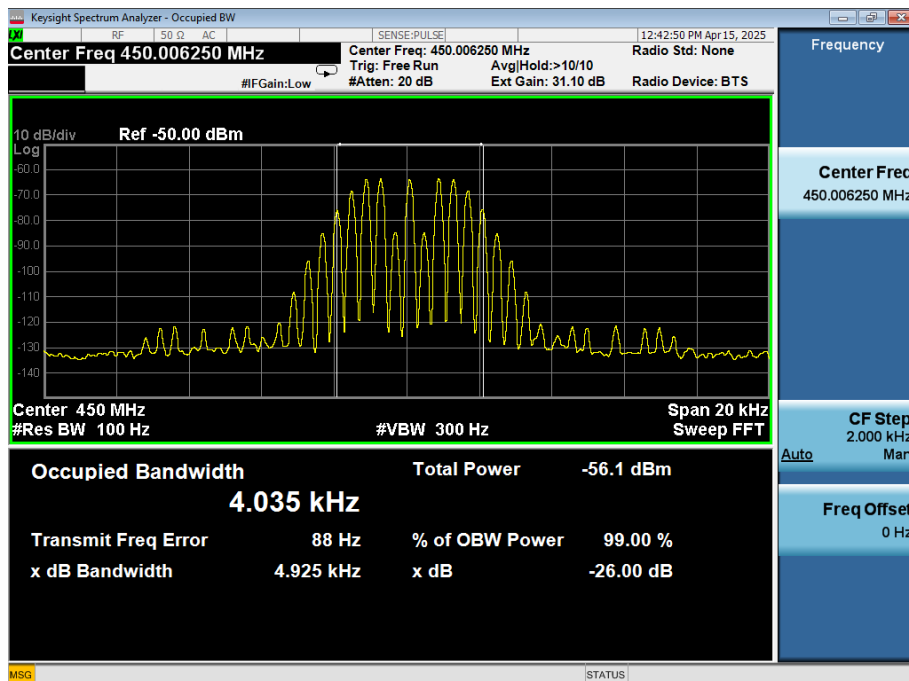
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### 99% OBW

#### DL\_FM\_LCH\_Input\_Pre-AGC



#### DL\_FM\_LCH\_Input\_3dB above AGC

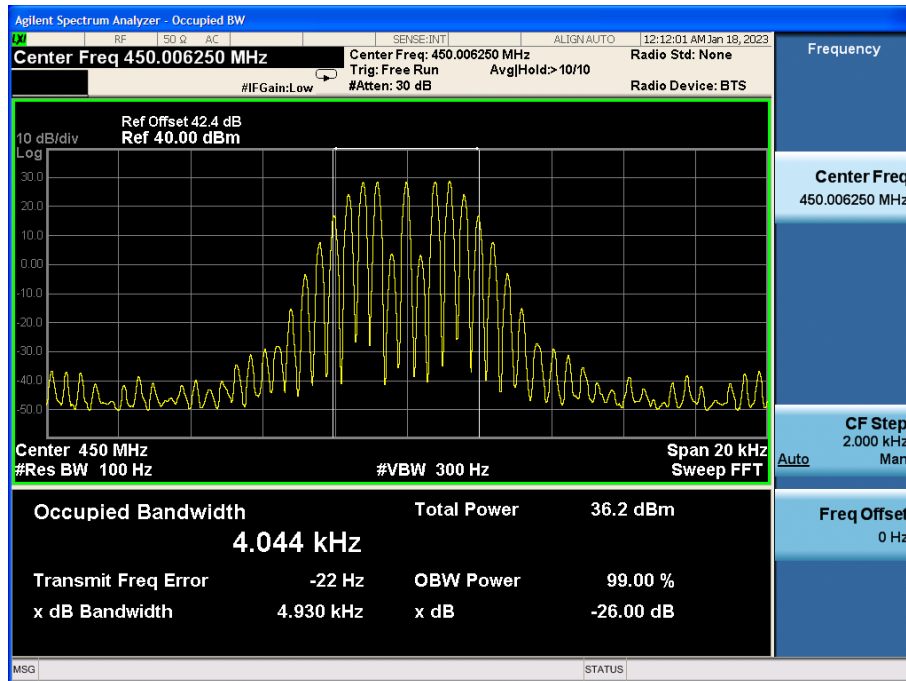


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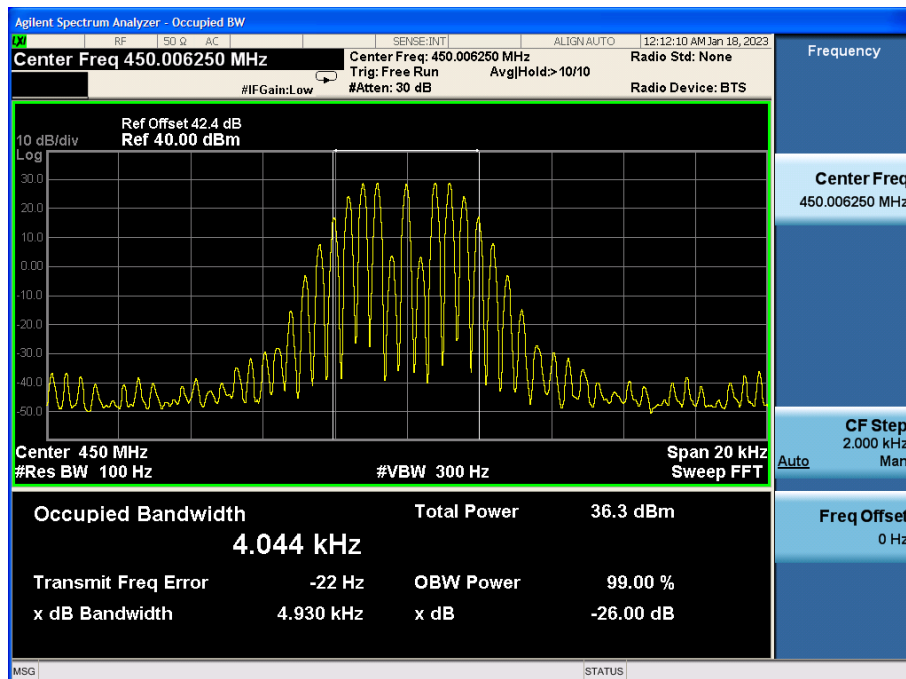
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### 99% OBW

#### DL\_FM\_LCH\_Output\_Pre-AGC



#### DL\_FM\_LCH\_Output\_3dB above AGC

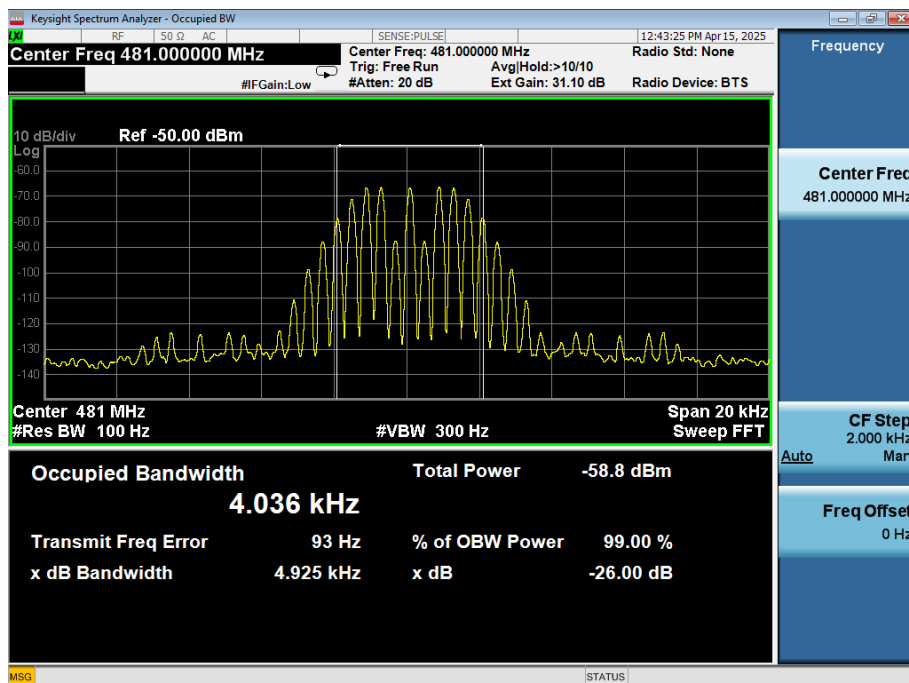


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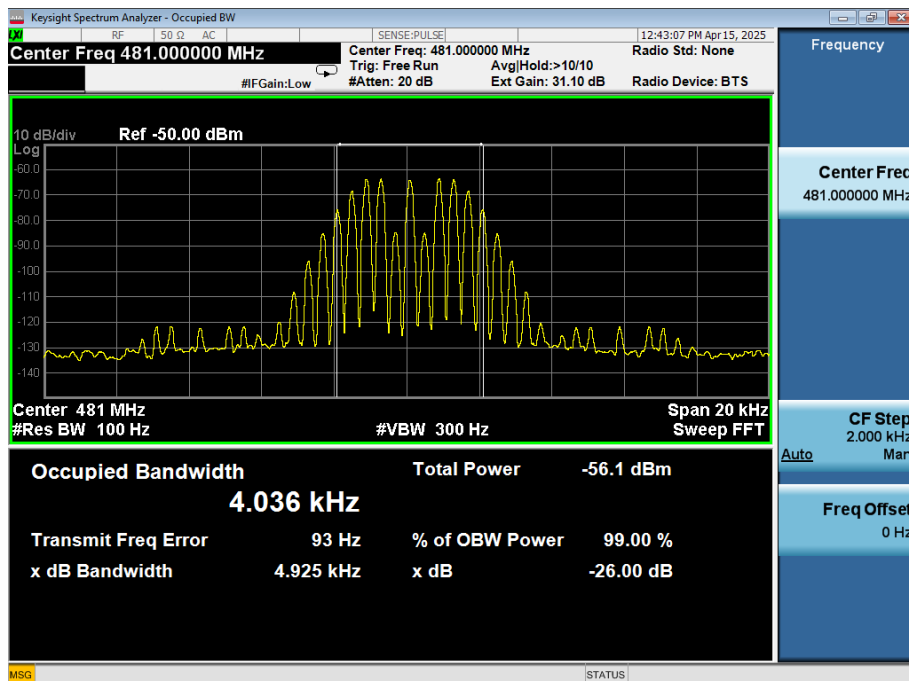
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### 99% OBW

#### DL\_FM\_MCH\_Input\_Pre-AGC



#### DL\_FM\_MCH\_Input\_3dB above AGC

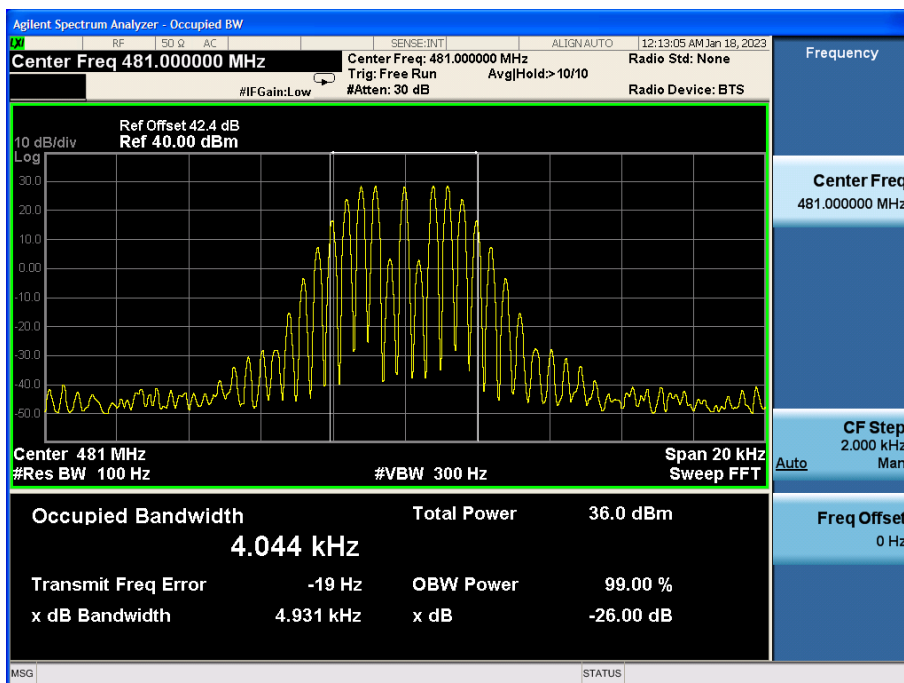


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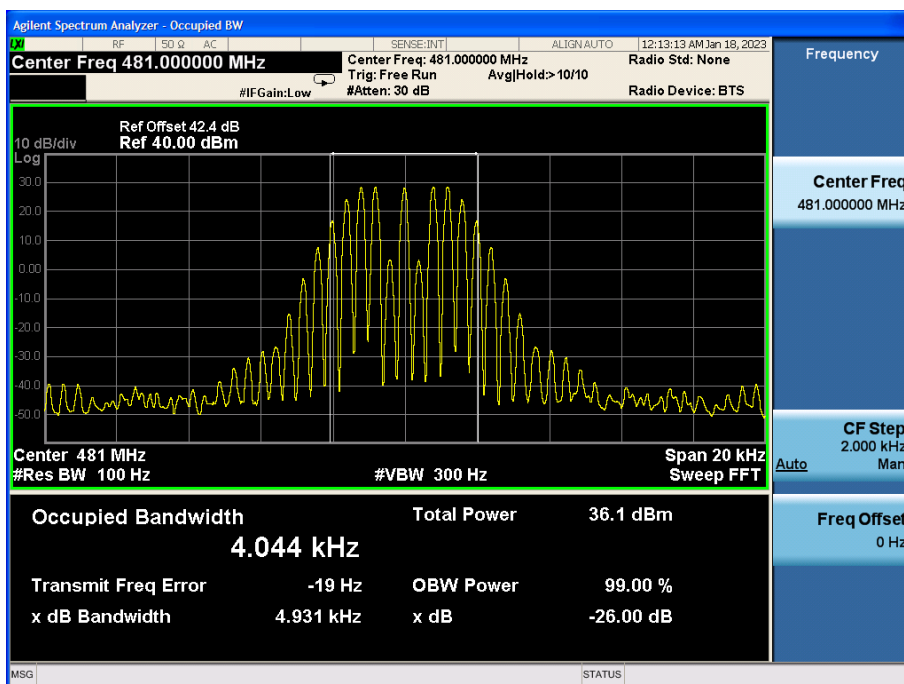
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### 99% OBW

### DL\_FM\_MCH\_Output\_Pre-AGC



### DL\_FM\_MCH\_Output\_3dB above AGC

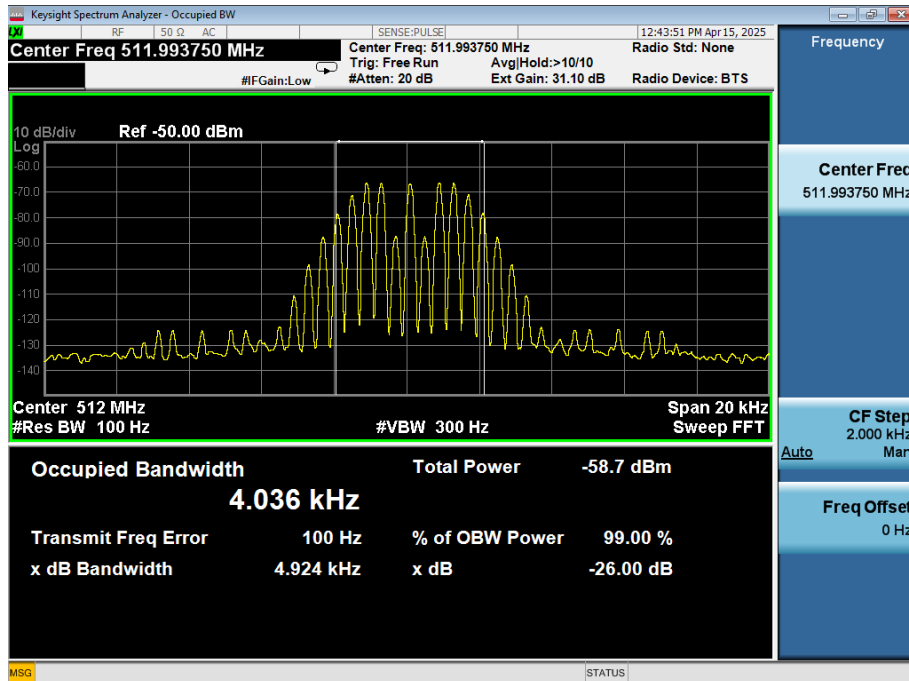


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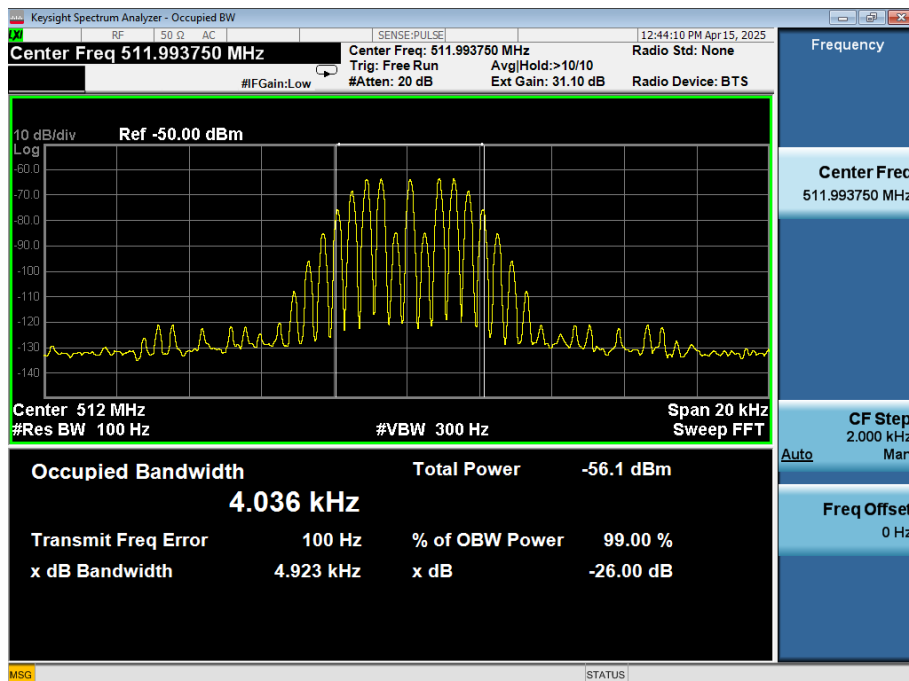
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### 99% OBW

#### DL\_FM\_HCH\_Input\_Pre-AGC



#### DL\_FM\_HCH\_Input\_3dB above AGC

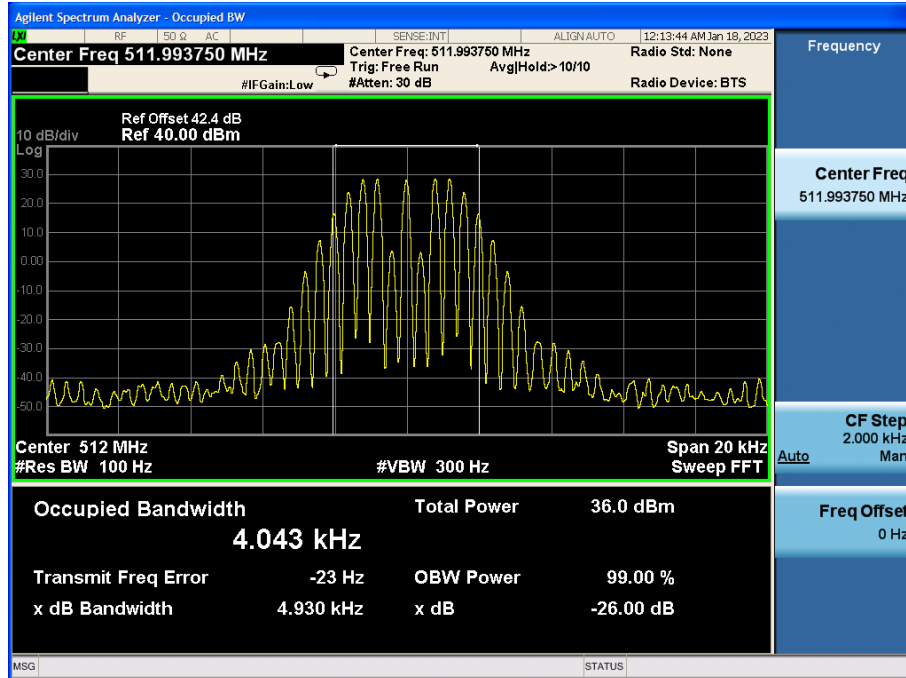


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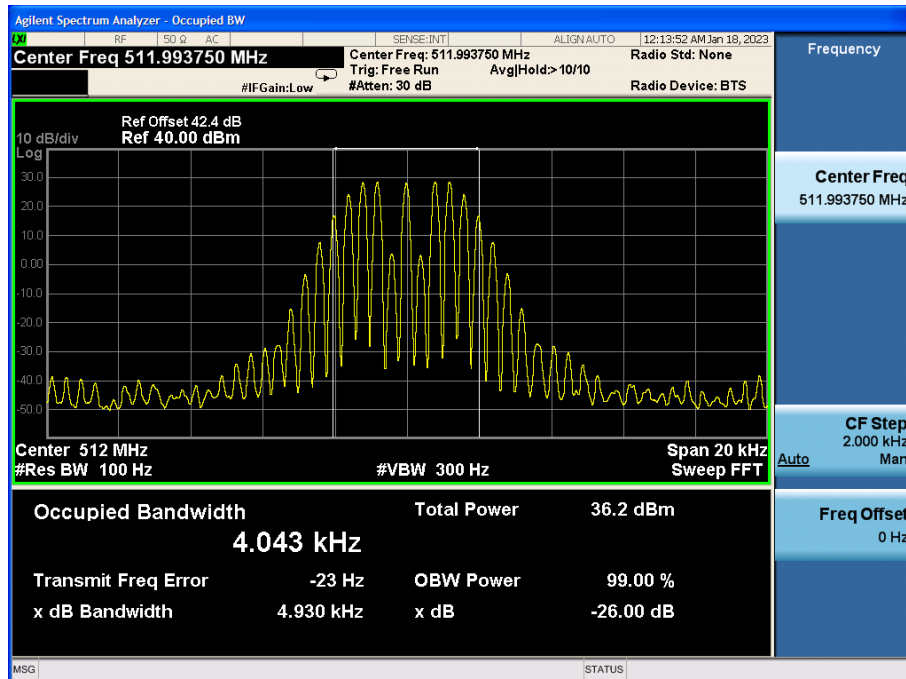
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#### DL\_FM\_HCH\_Output\_Pre-AGC



#### DL\_FM\_HCH\_Output\_3dB above AGC

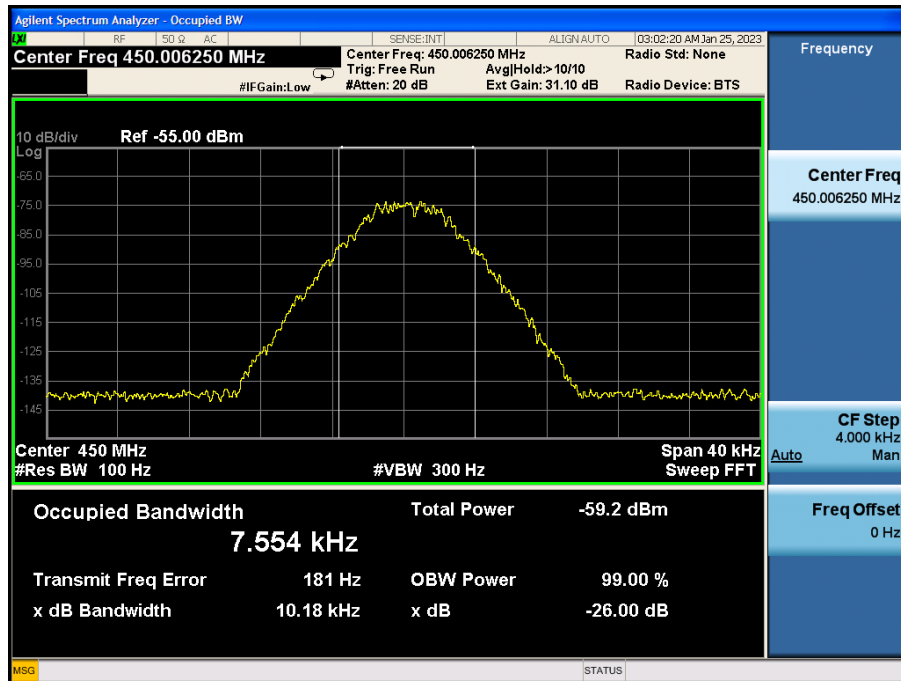


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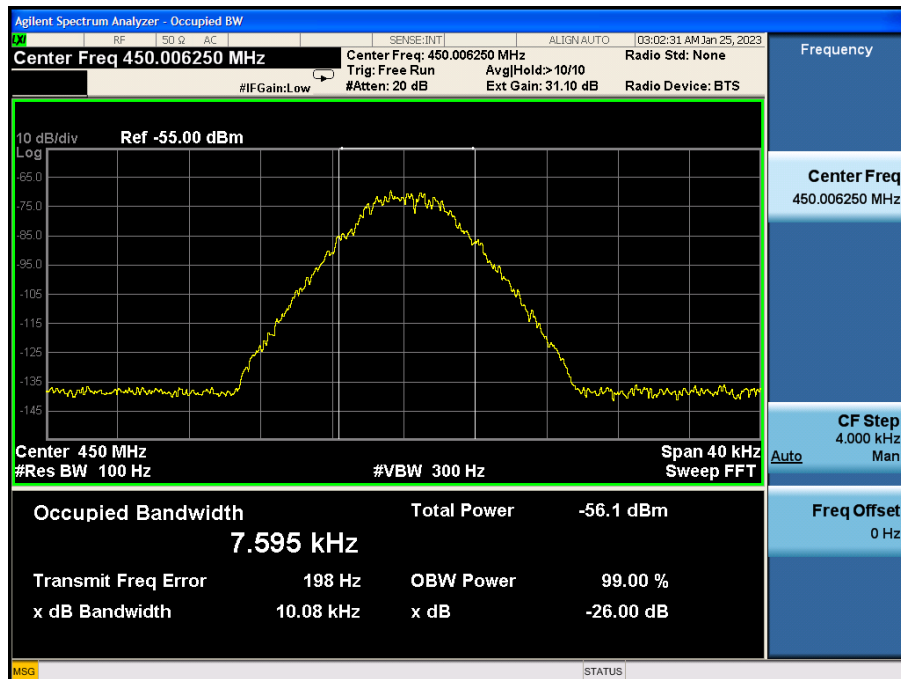
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#### DL\_DMR\_LCH\_Input\_3dB above AGC

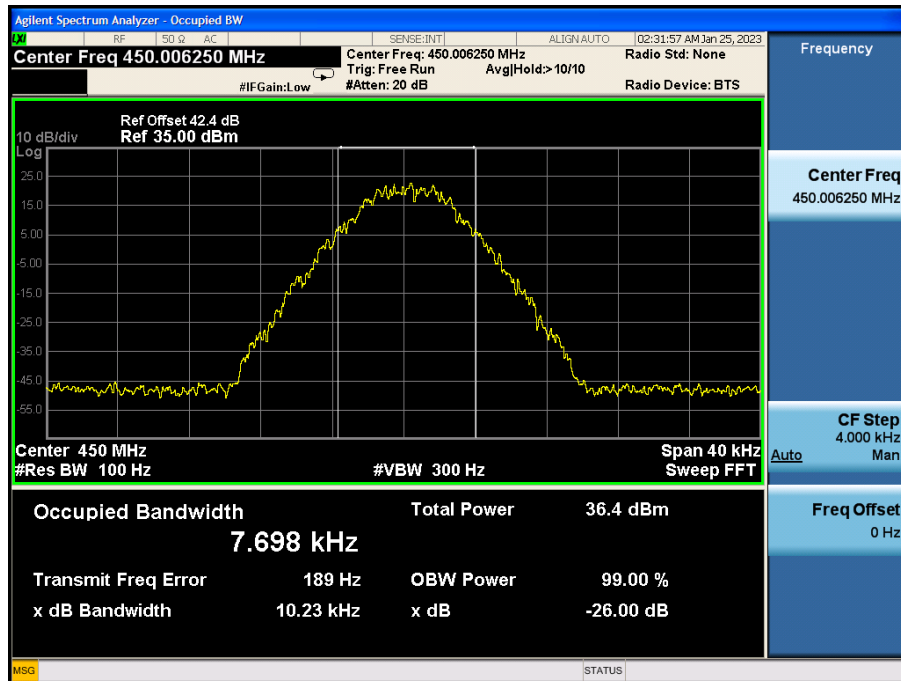


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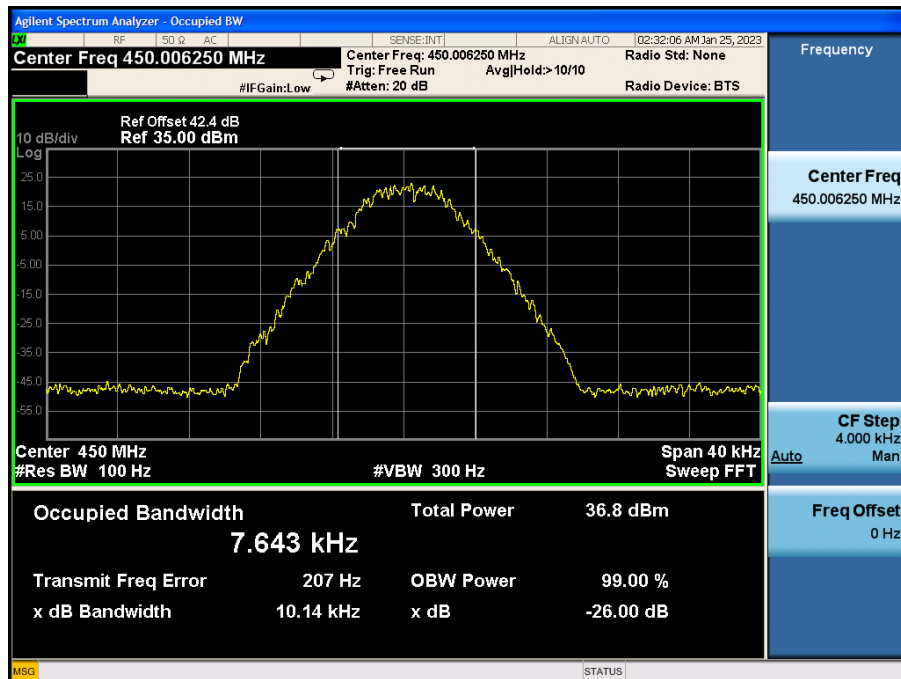
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### 99% OBW

#### DL\_DMR\_LCH\_Output\_Pre-AGC

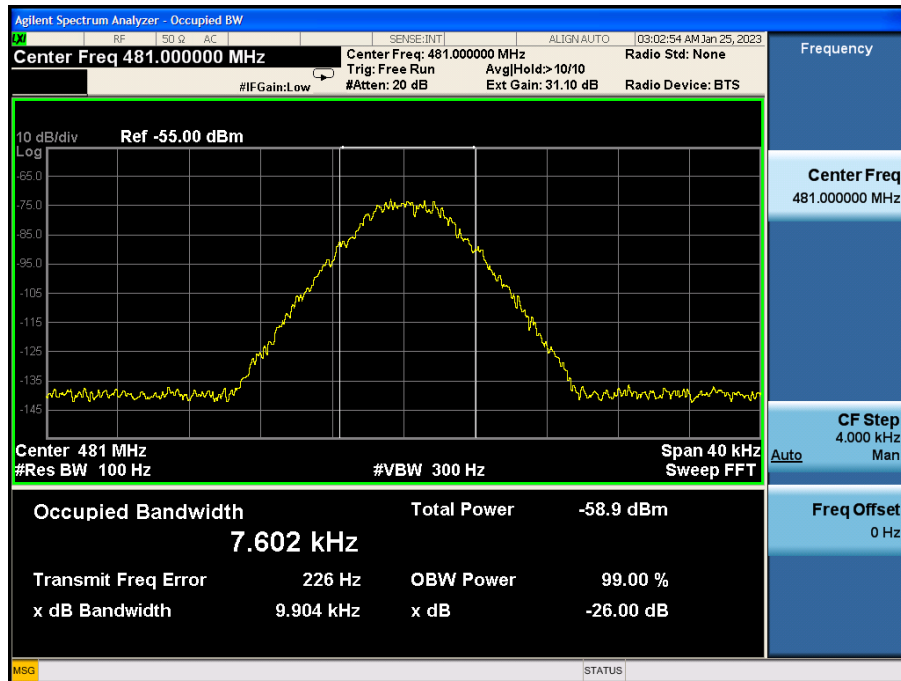


#### DL\_DMR\_LCH\_Output\_3dB above AGC

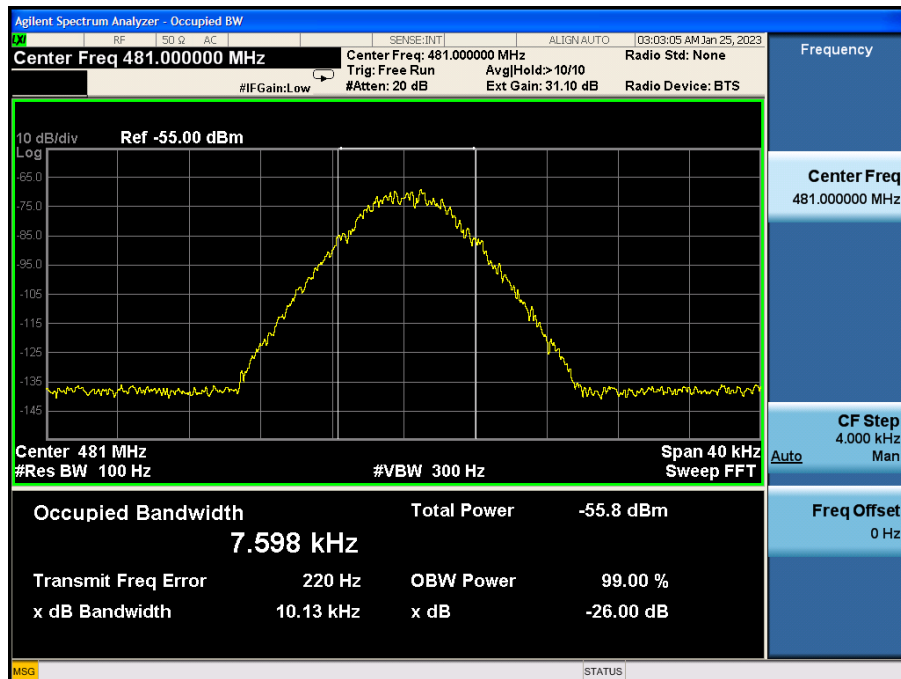


### 99% OBW

#### DL\_DMR\_MCH\_Input\_Pre-AGC



#### DL\_DMR\_MCH\_Input\_3dB above AGC

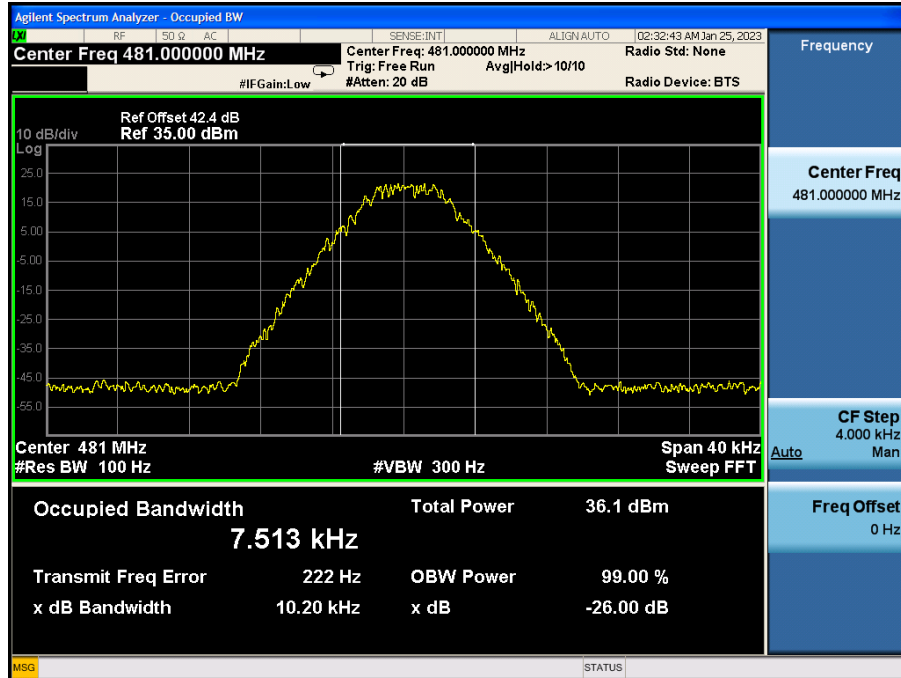


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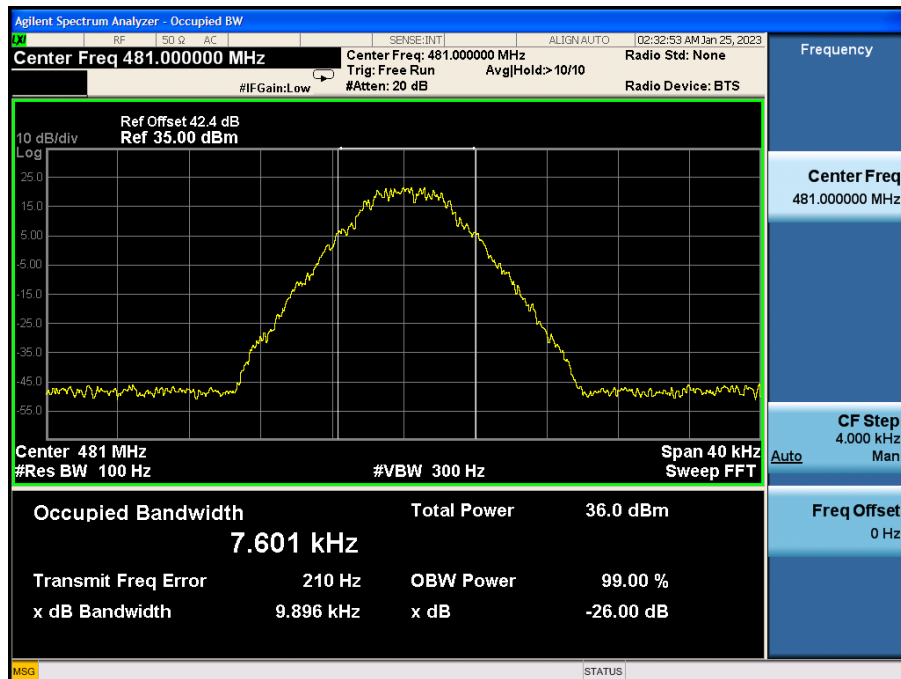
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### 99% OBW

#### DL\_DMR\_MCH\_Output\_Pre-AGC



#### DL\_DMR\_MCH\_Output\_3dB above AGC

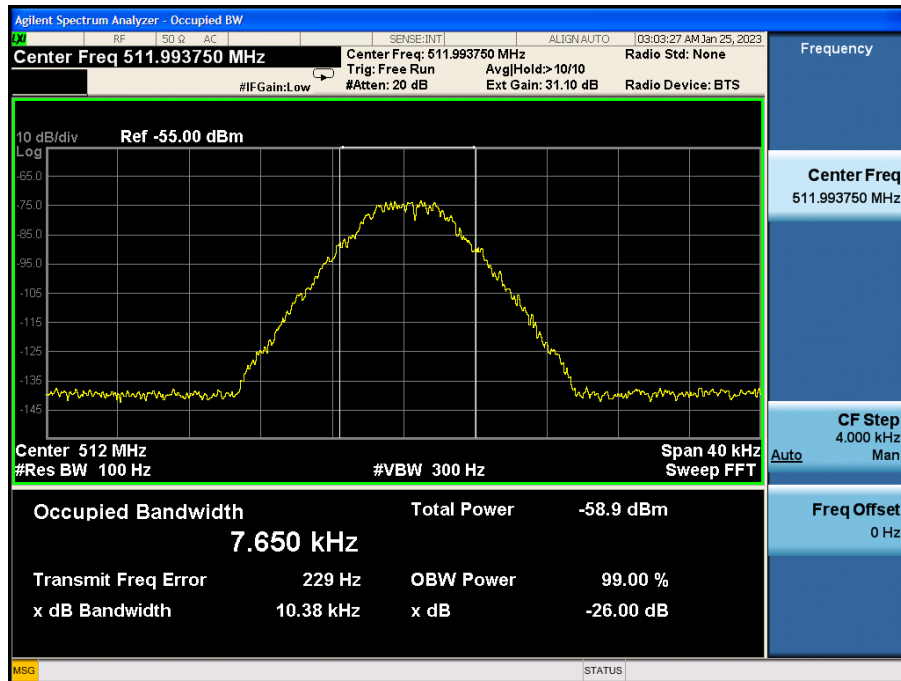


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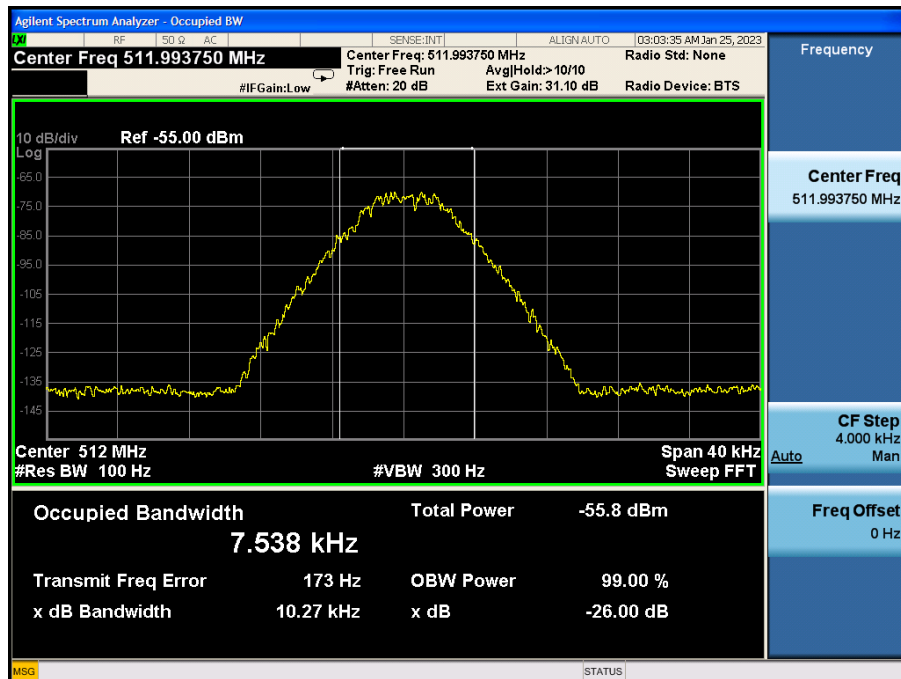
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### 99% OBW

#### DL\_DMR\_HCH\_Input\_Pre-AGC



#### DL\_DMR\_HCH\_Input\_3dB above AGC

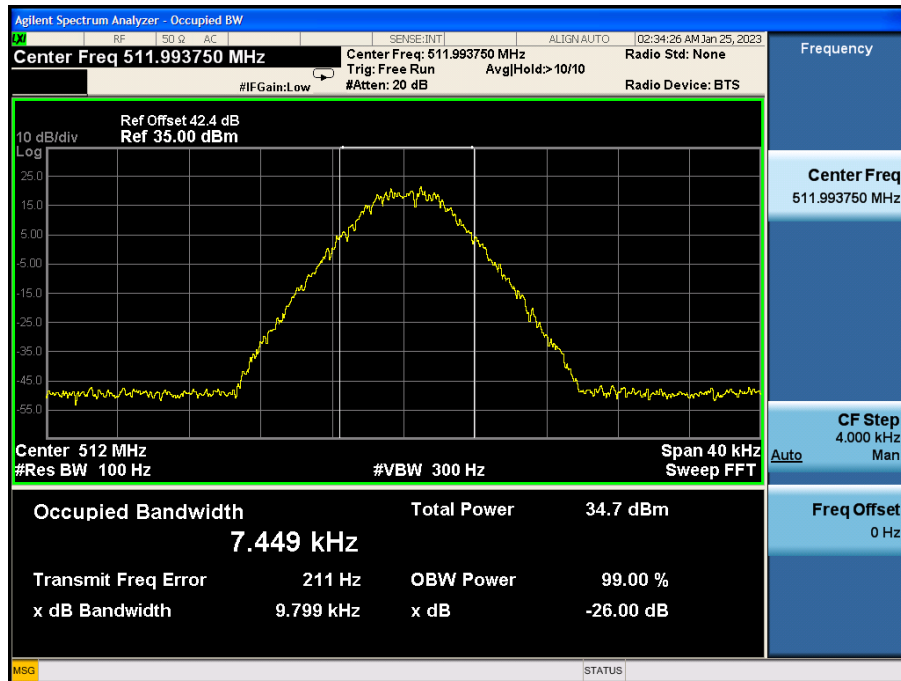


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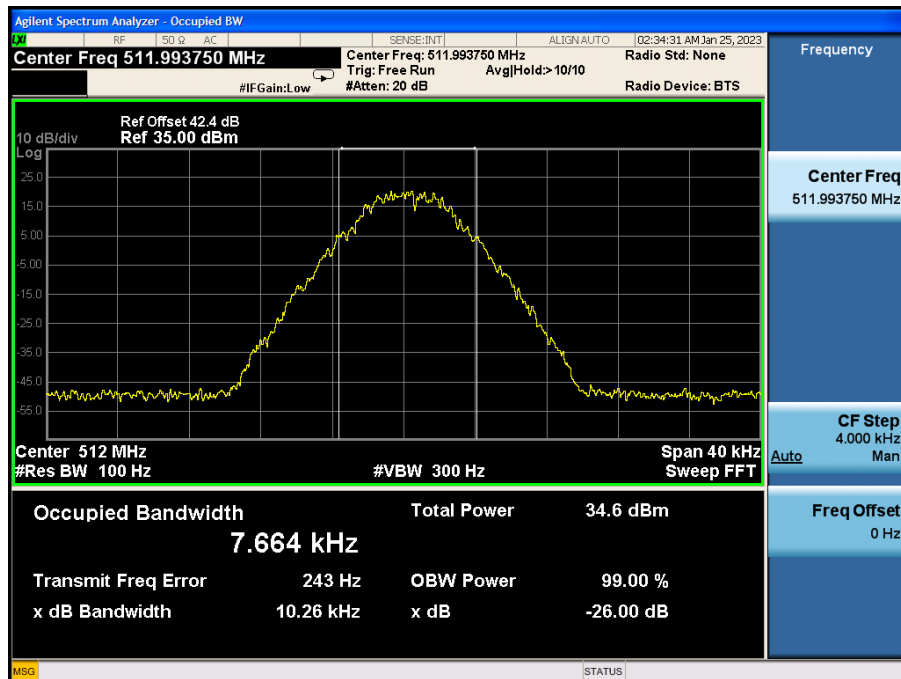
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### 99% OBW

#### DL\_DMR\_HCH\_Output\_Pre-AGC



#### DL\_DMR\_HCH\_Output\_3dB above AGC

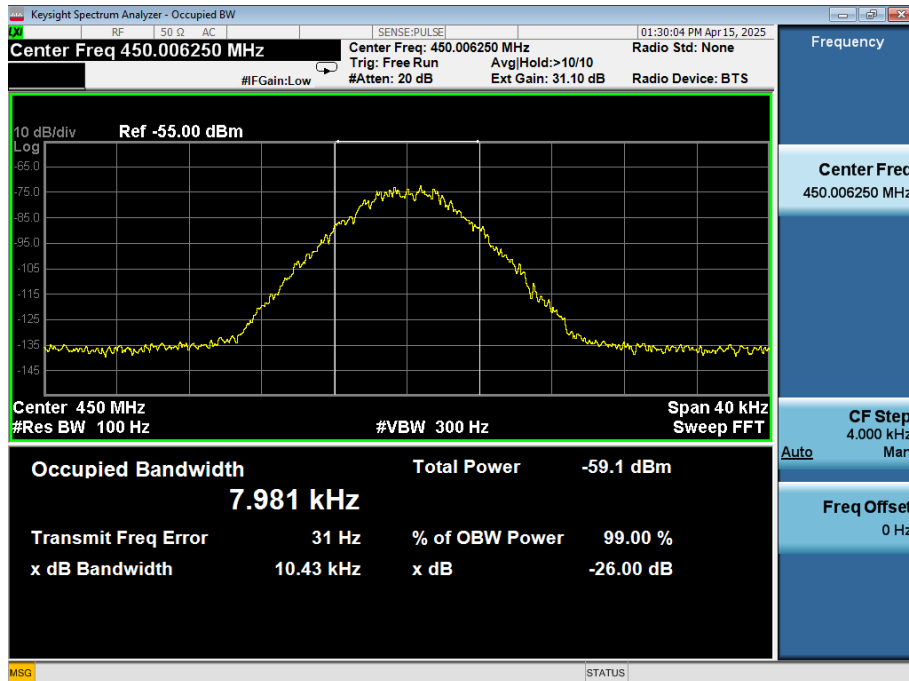


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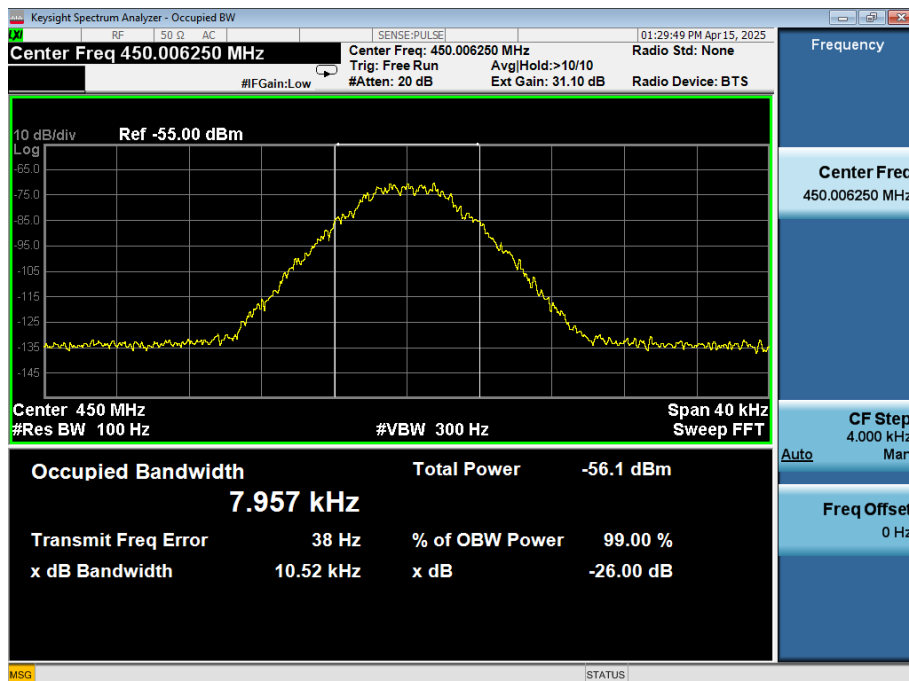
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### 99% OBW

#### DL\_C4FM\_LCH\_Input\_Pre-AGC



#### DL\_C4FM\_LCH\_Input\_3dB above AGC

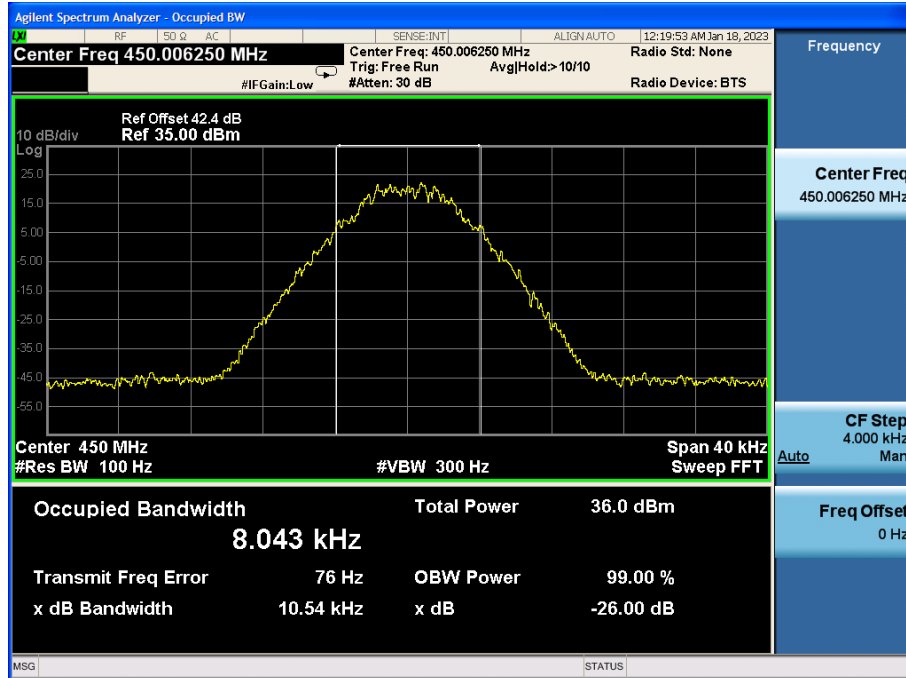


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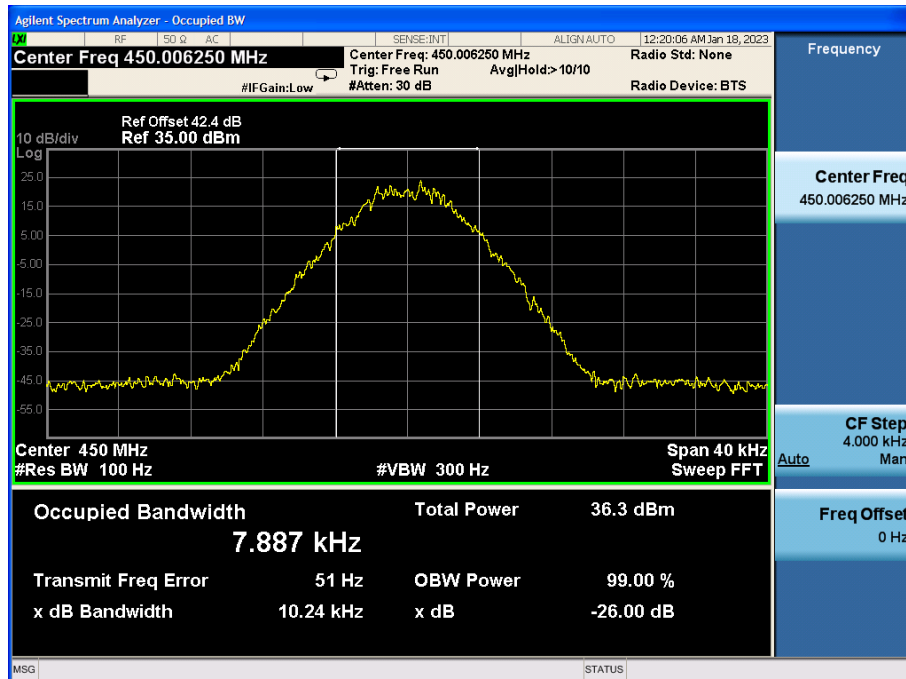
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### 99% OBW

#### DL\_C4FM\_LCH\_Output\_Pre-AGC



#### DL\_C4FM\_LCH\_Output\_3dB above AGC



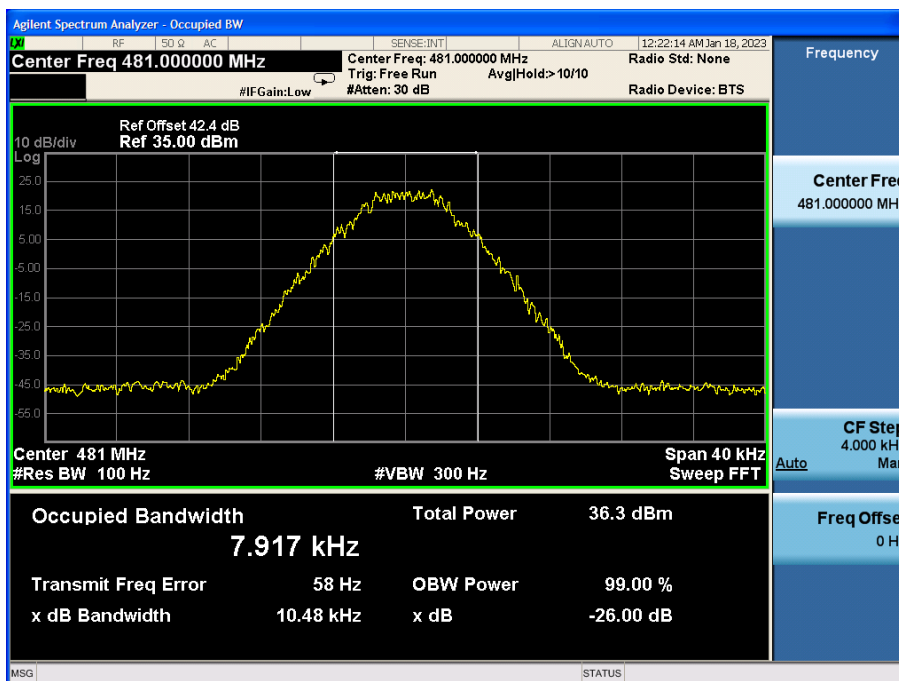
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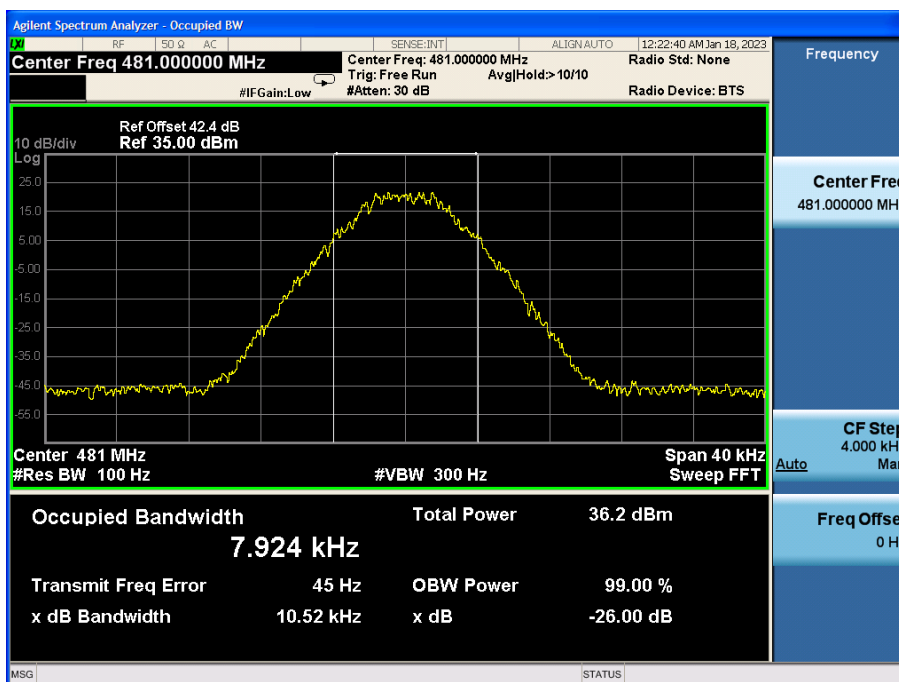


### 99% OBW

#### DL\_C4FM\_MCH\_Output\_Pre-AGC



#### DL\_C4FM\_MCH\_Output\_3dB above AGC

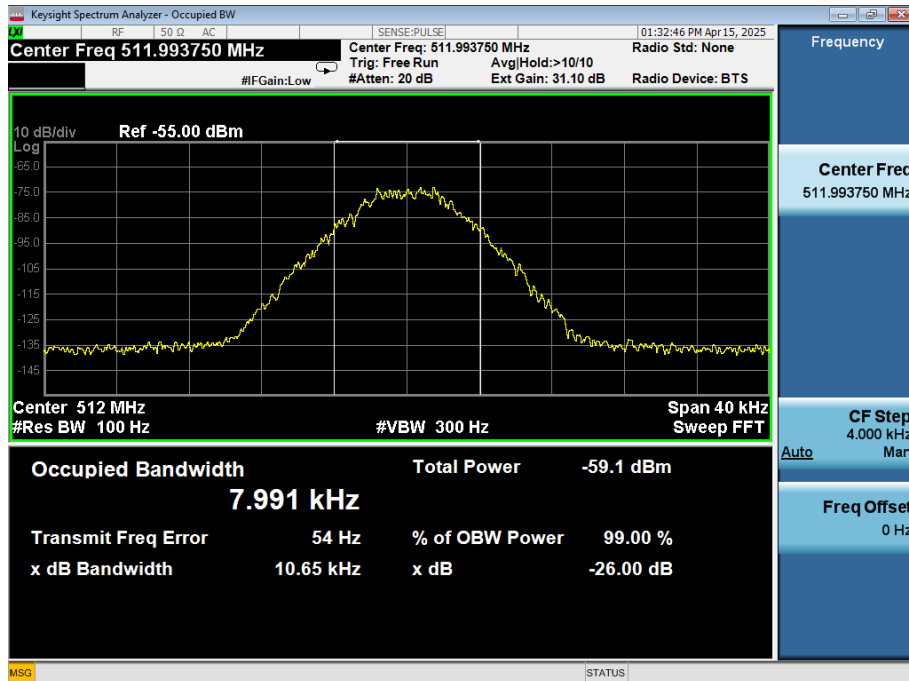


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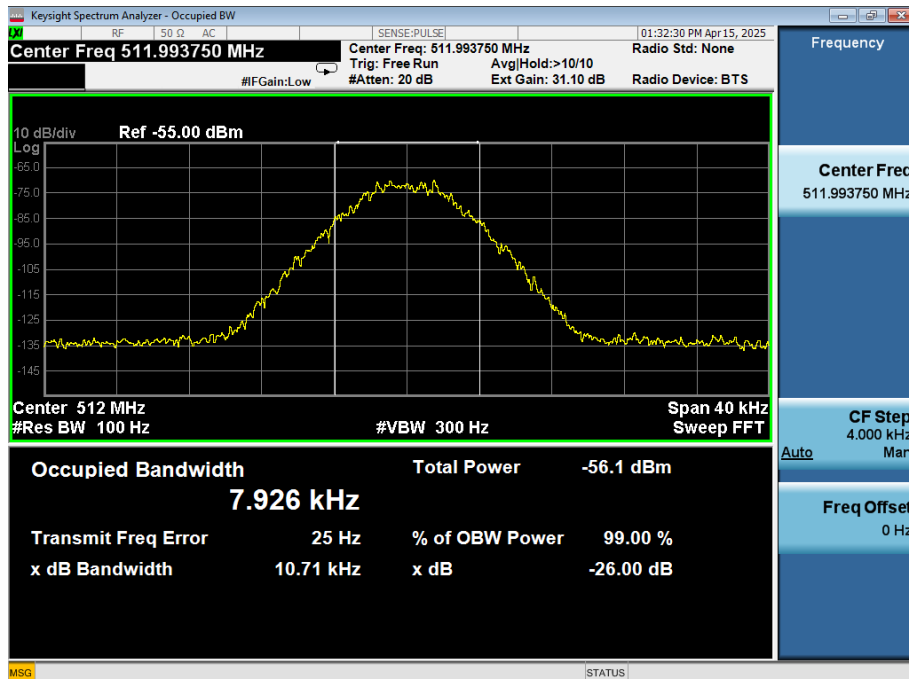
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### 99% OBW

#### DL\_C4FM\_HCH\_Input\_Pre-AGC



#### DL\_C4FM\_HCH\_Input\_3dB above AGC

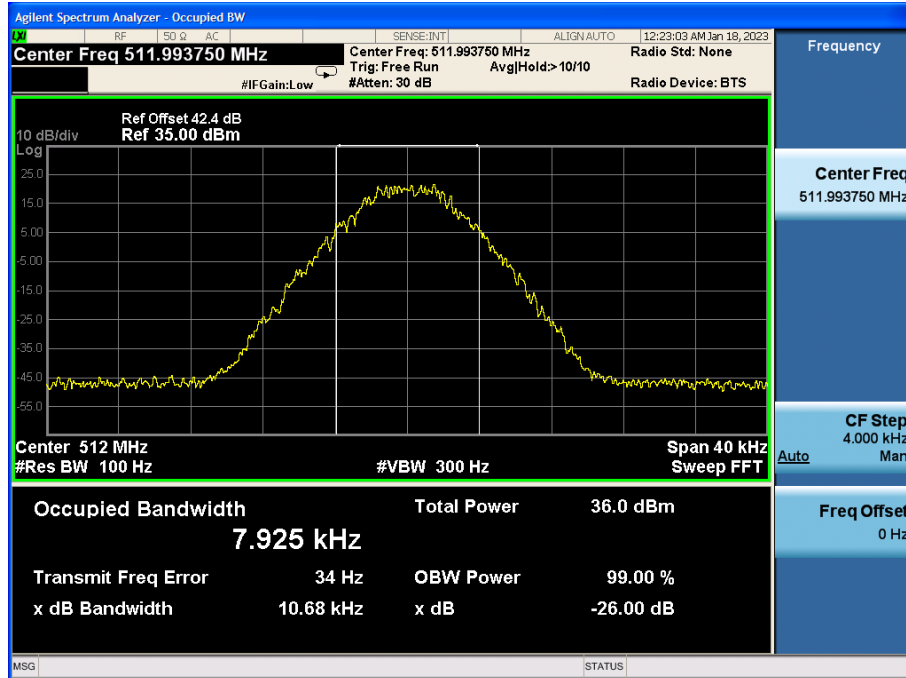


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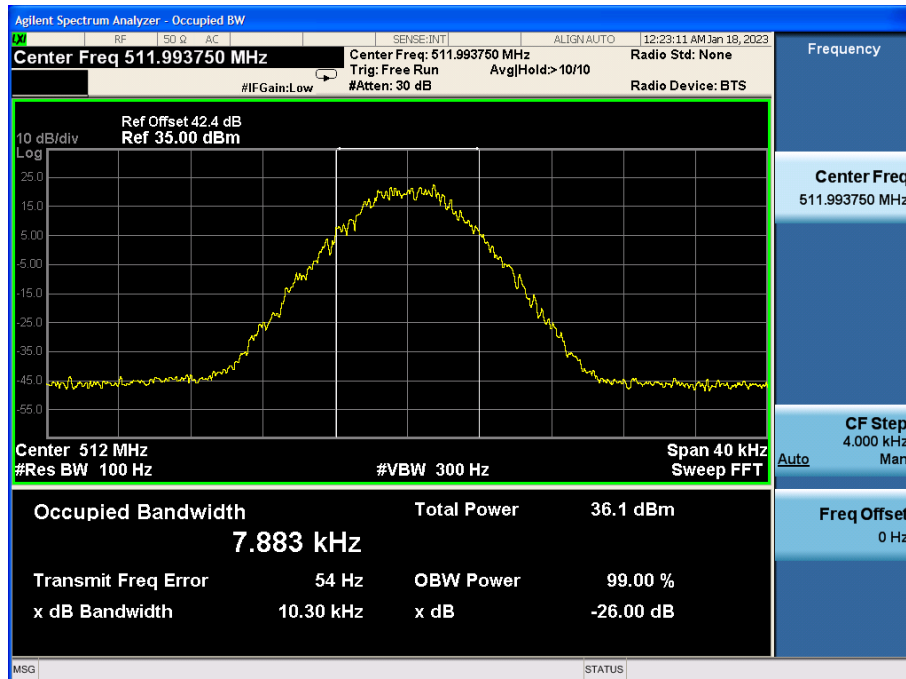
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### 99% OBW

#### DL\_C4FM\_HCH\_Output\_Pre-AGC



#### DL\_C4FM\_HCH\_Output\_3dB above AGC

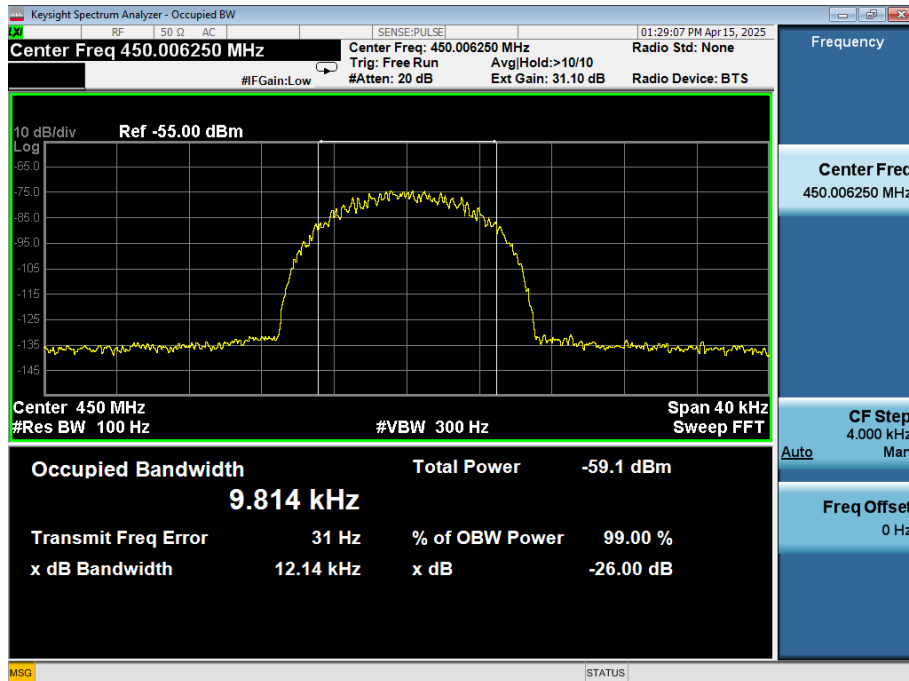


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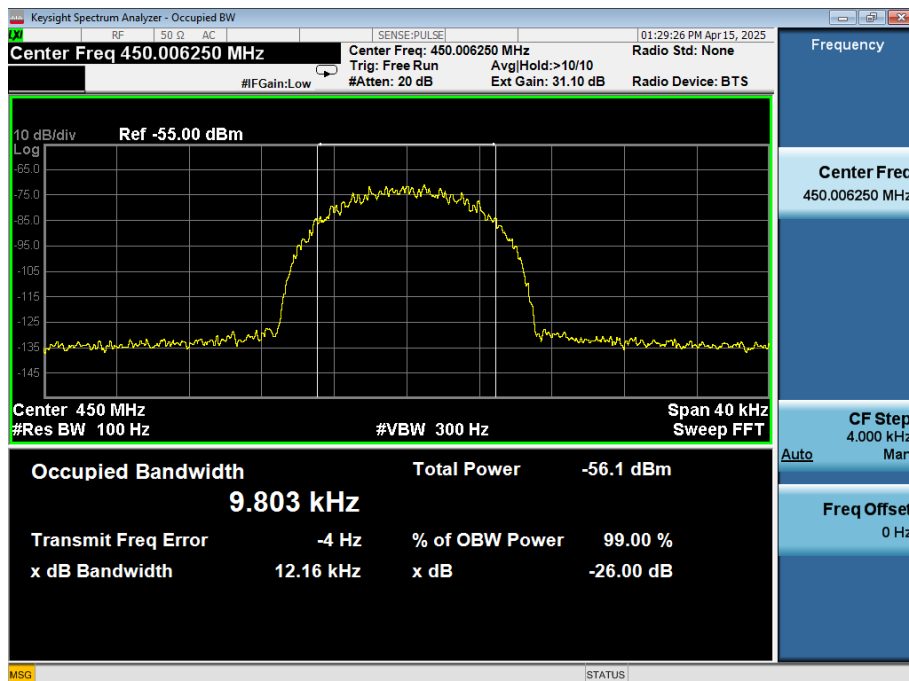
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### 99% OBW

#### DL\_H-DQPSK\_LCH\_Input\_Pre-AGC



#### DL\_H-DQPSK\_LCH\_Input\_3dB above AGC

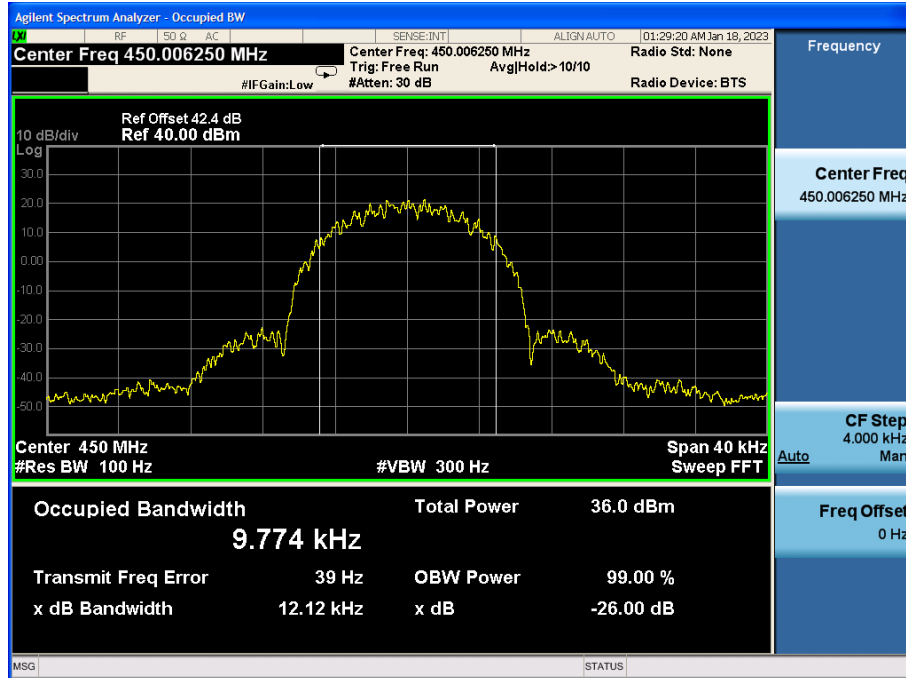


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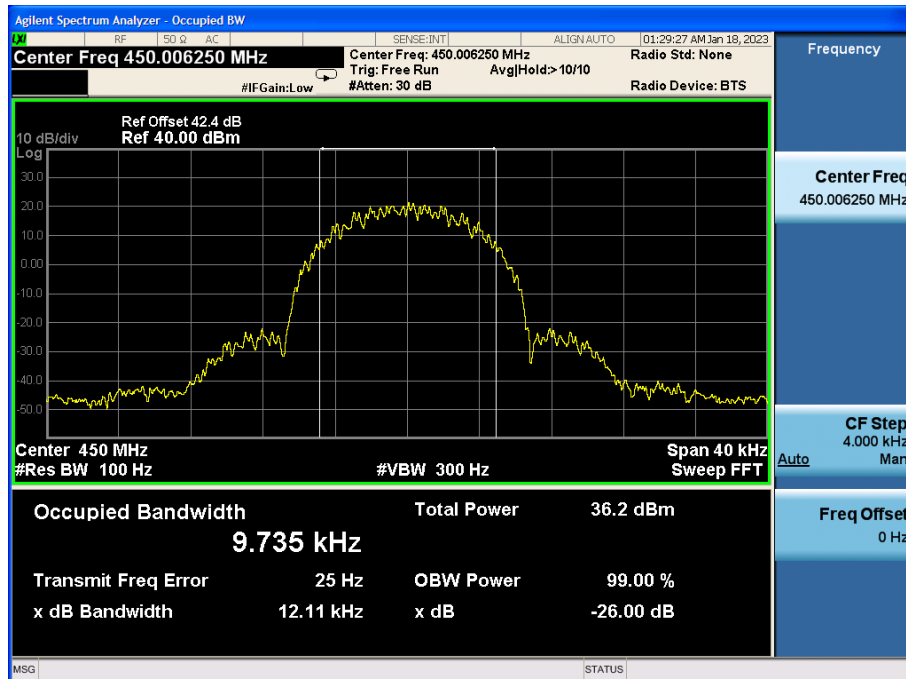
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### 99% OBW

#### DL\_H-DQPSK\_LCH\_Output\_Pre-AGC



#### DL\_H-DQPSK\_LCH\_Output\_3dB above AGC

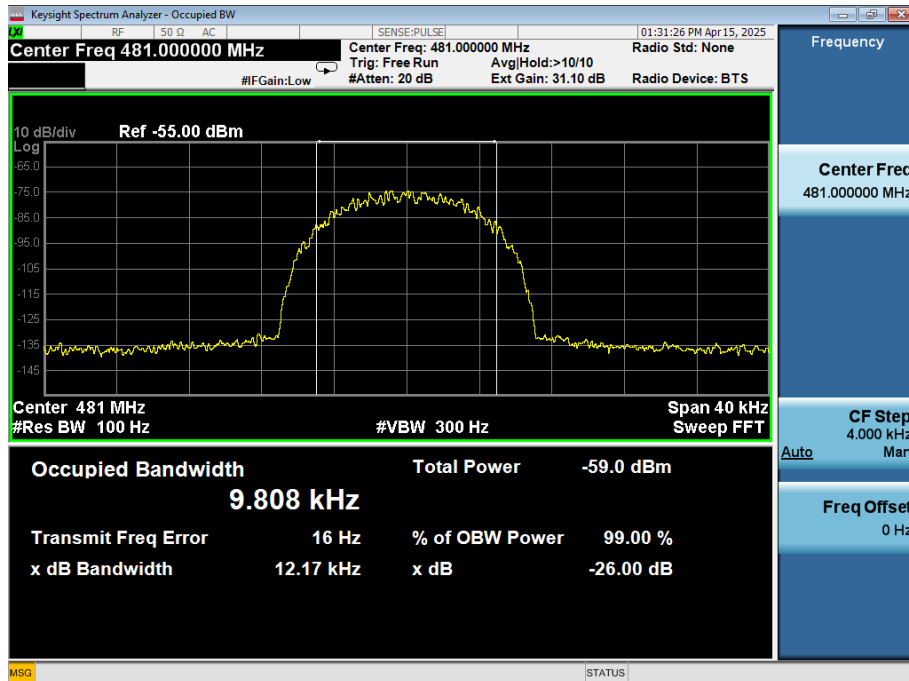


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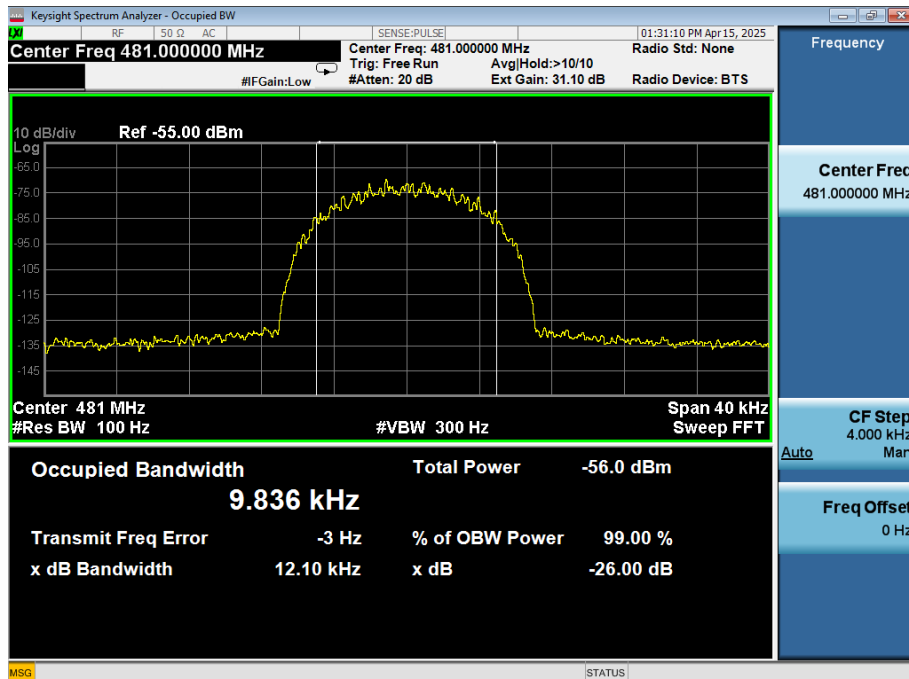
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### 99% OBW

#### DL\_H-DQPSK\_MCH\_Input\_Pre-AGC



#### DL\_H-DQPSK\_MCH\_Input\_3dB above AGC

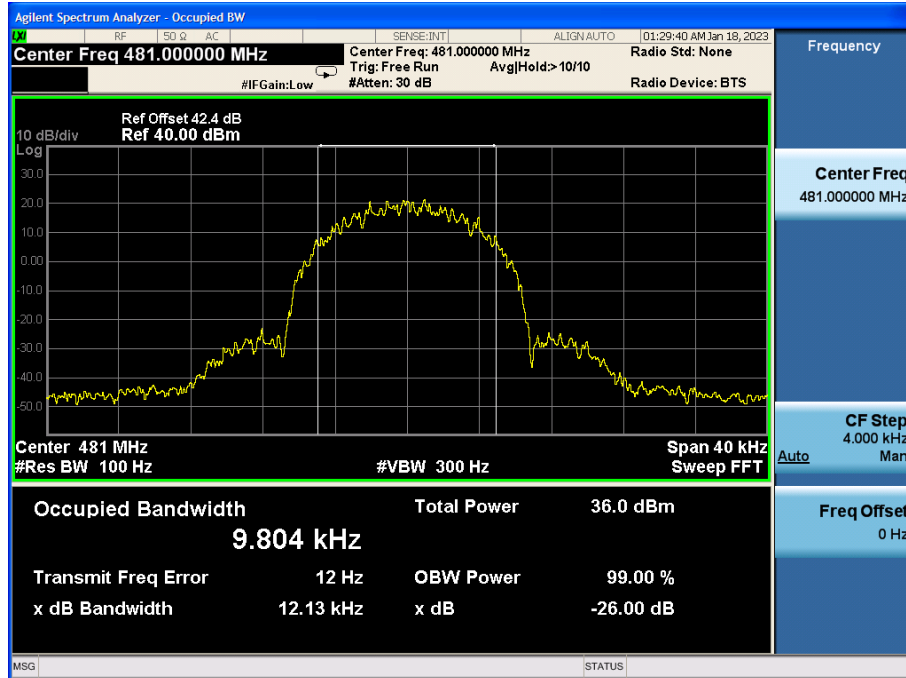


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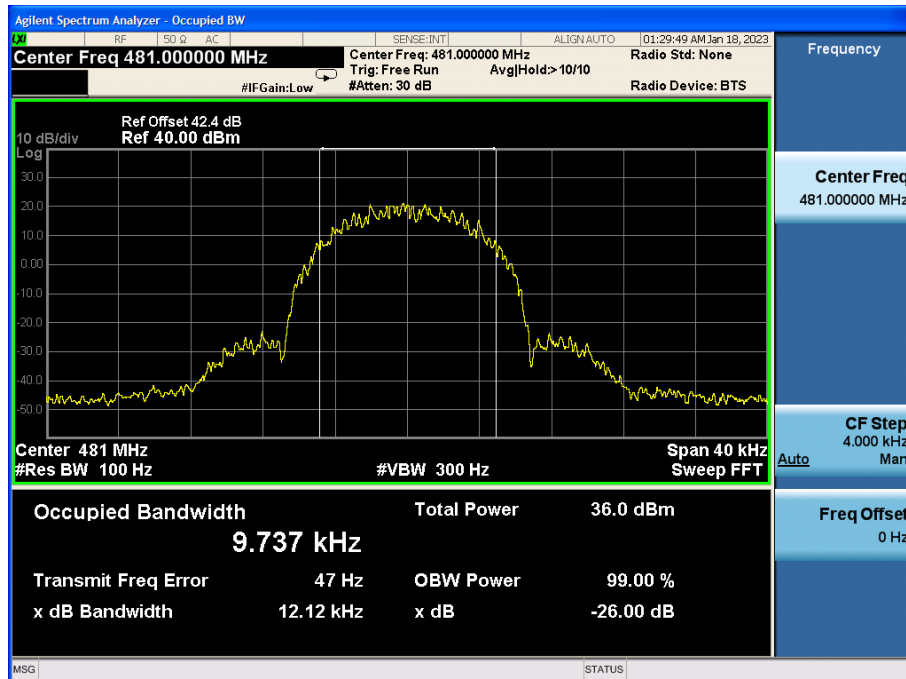
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### 99% OBW

#### DL\_H-DQPSK\_MCH\_Output\_Pre-AGC



#### DL\_H-DQPSK\_MCH\_Output\_3dB above AGC

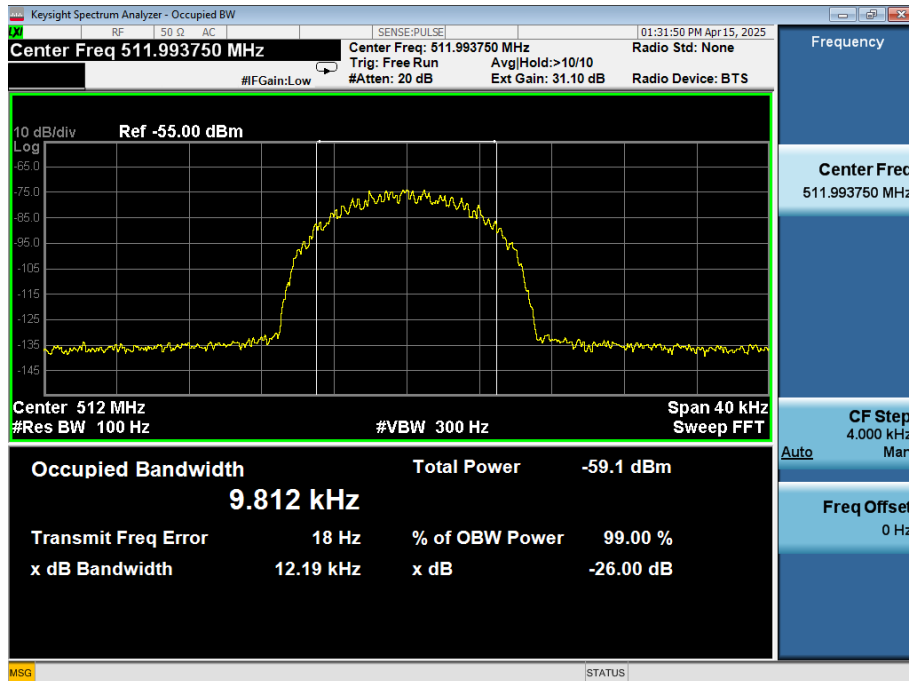


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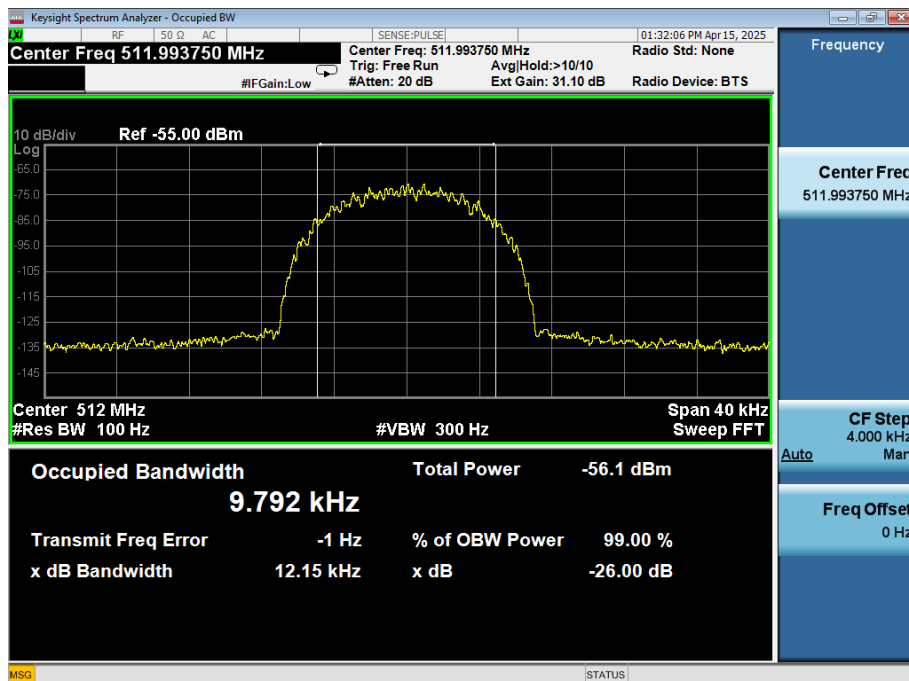
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### 99% OBW

#### DL\_H-DQPSK\_HCH\_Input\_Pre-AGC



#### DL\_H-DQPSK\_HCH\_Input\_3dB above AGC



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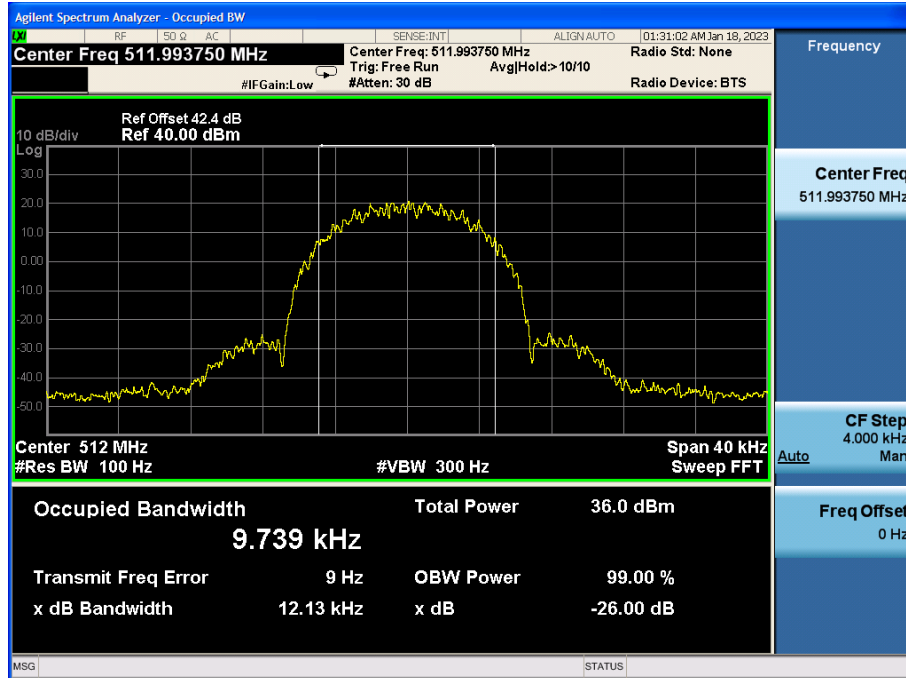
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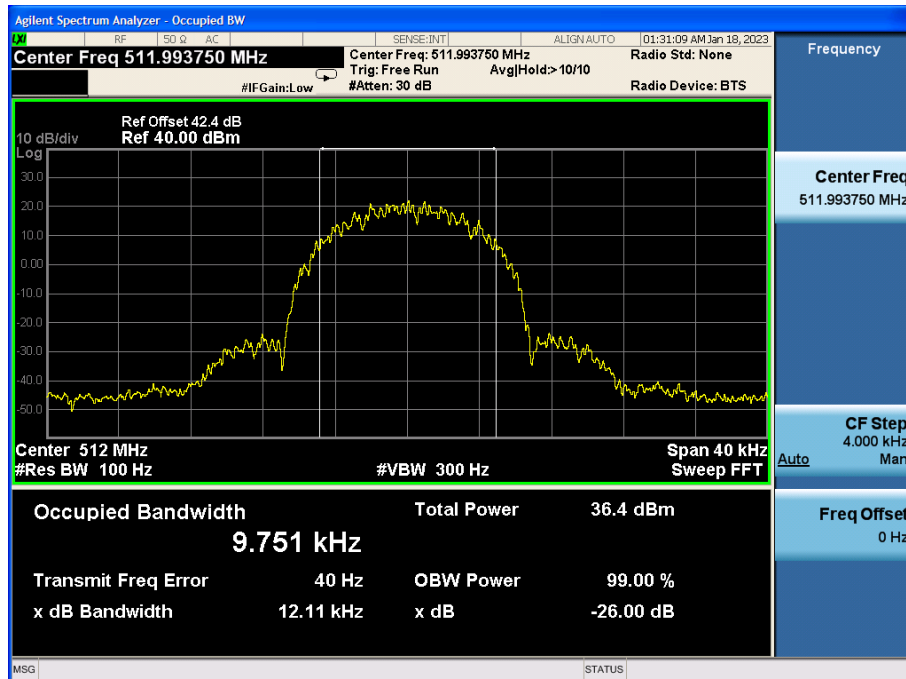
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t (86-20) 82155555 sgs.china@sgs.com

### 99% OBW

#### DL\_H-DQPSK\_HCH\_Output\_Pre-AGC



#### DL\_H-DQPSK\_HCH\_Output\_3dB above AGC

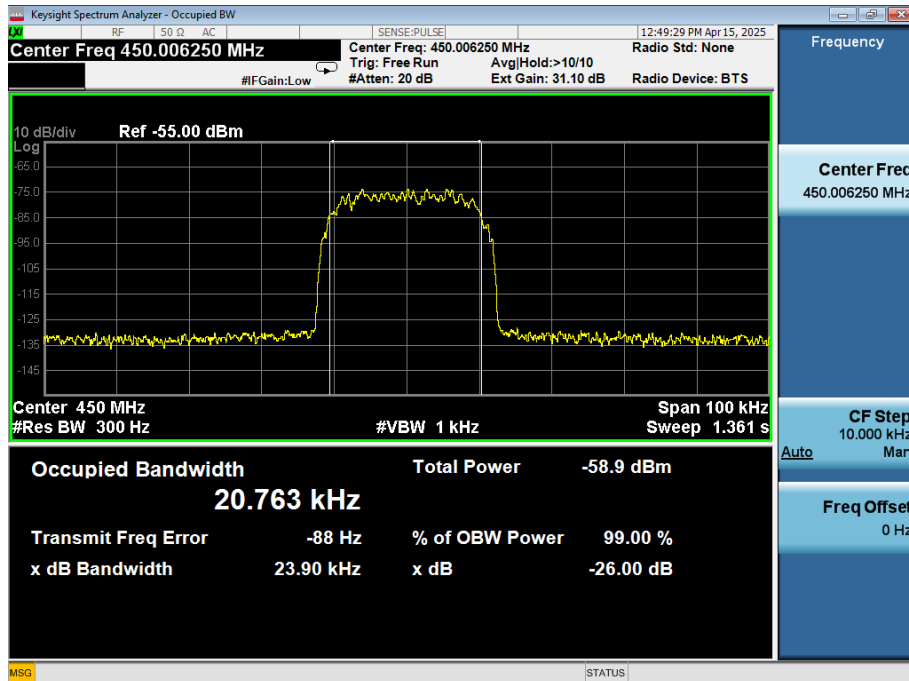


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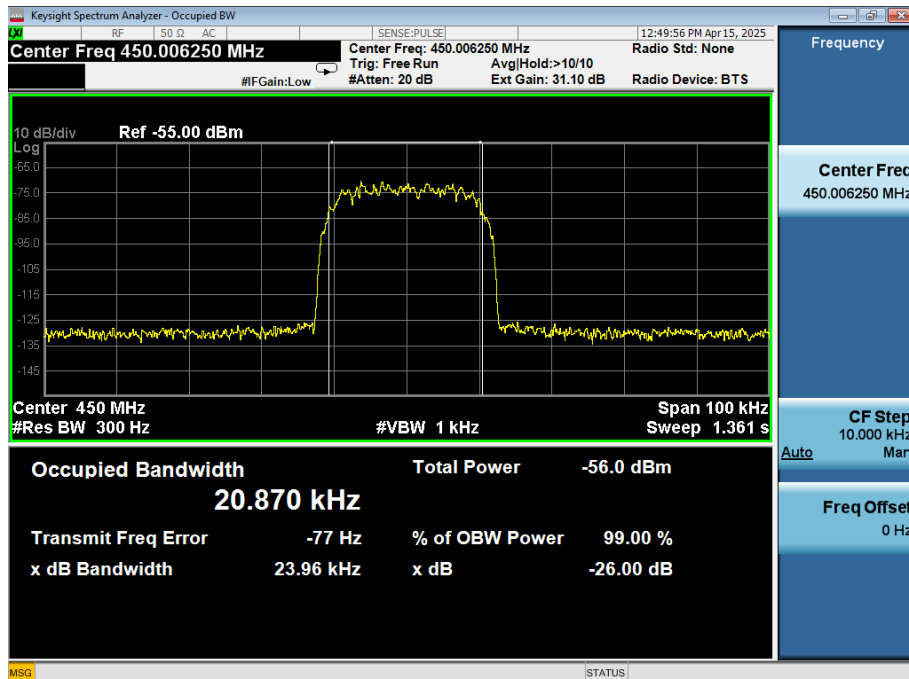
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### 99% OBW

#### DL\_TETRA\_LCH\_Input\_Pre-AGC



#### DL\_TETRA\_LCH\_Input\_3dB above AGC



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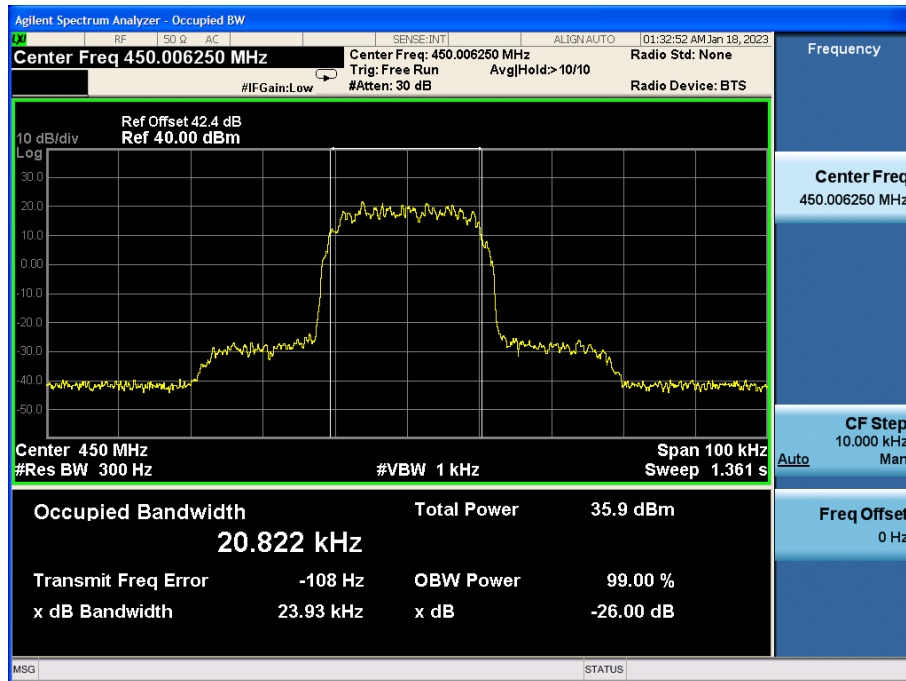
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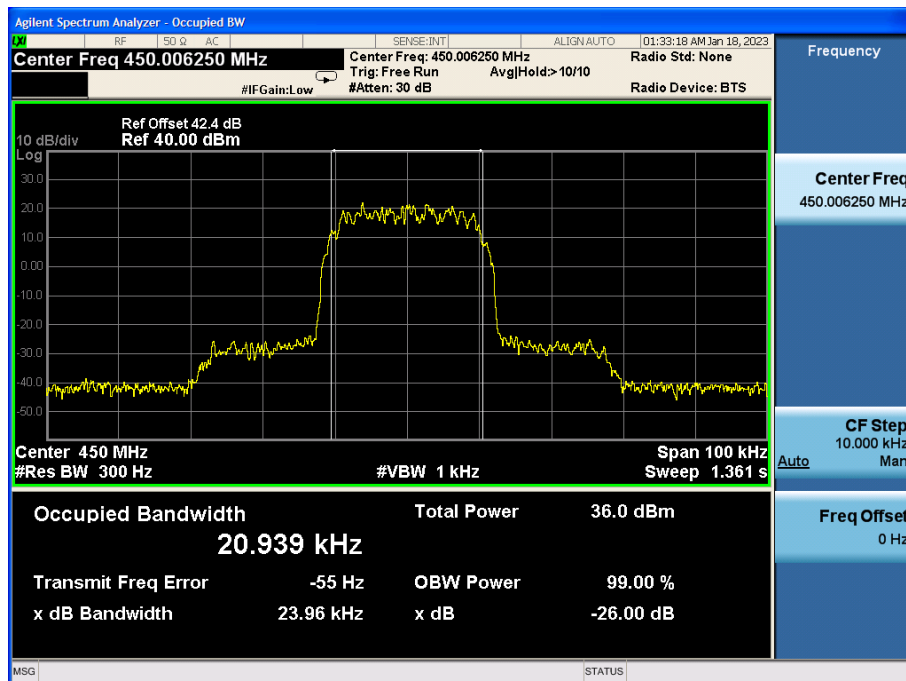
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t (86-20) 82155555 sgs.china@sgs.com

### 99% OBW

#### DL\_TETRA\_LCH\_Output\_Pre-AGC



#### DL\_TETRA\_LCH\_Output\_3dB above AGC



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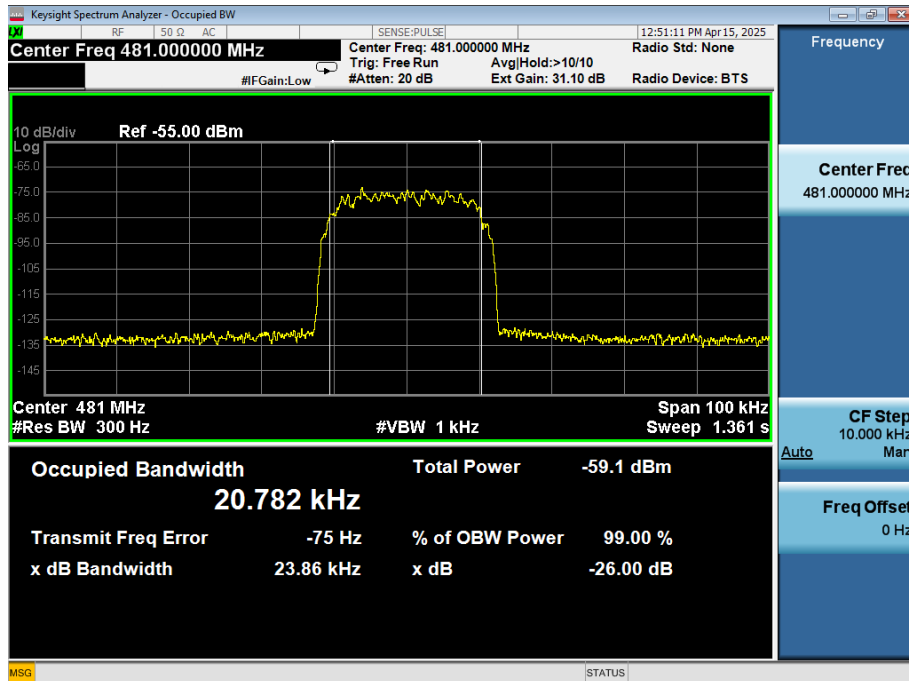
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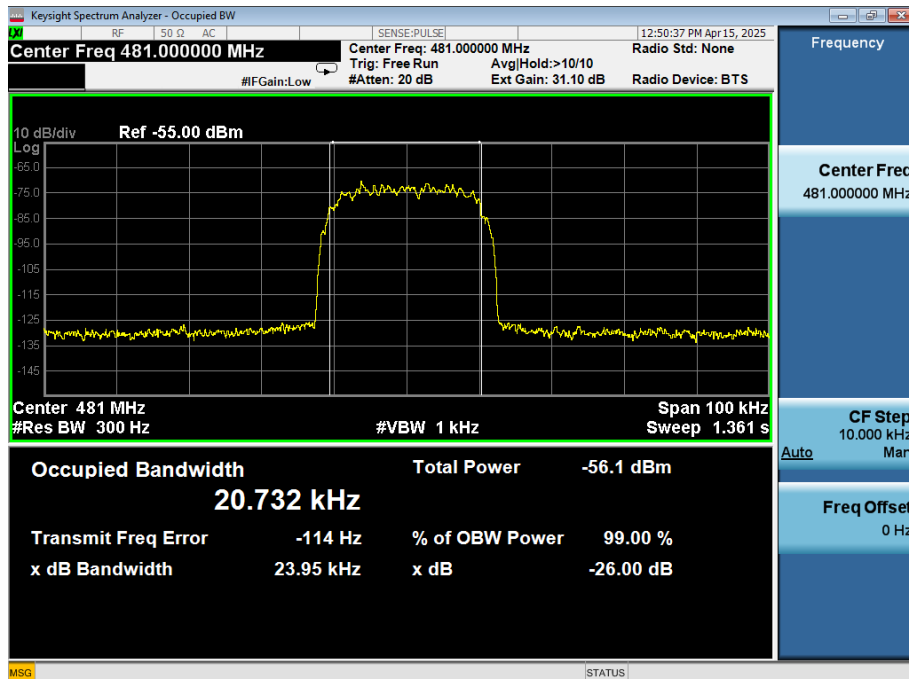
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### 99% OBW

#### DL\_TETRA\_MCH\_Input\_Pre-AGC



#### DL\_TETRA\_MCH\_Input\_3dB above AGC

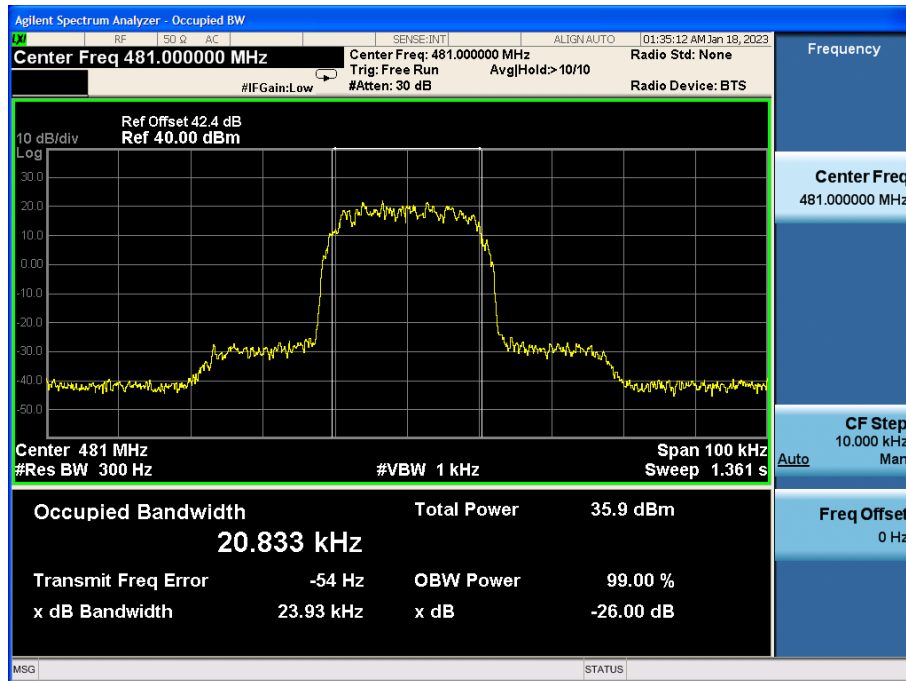


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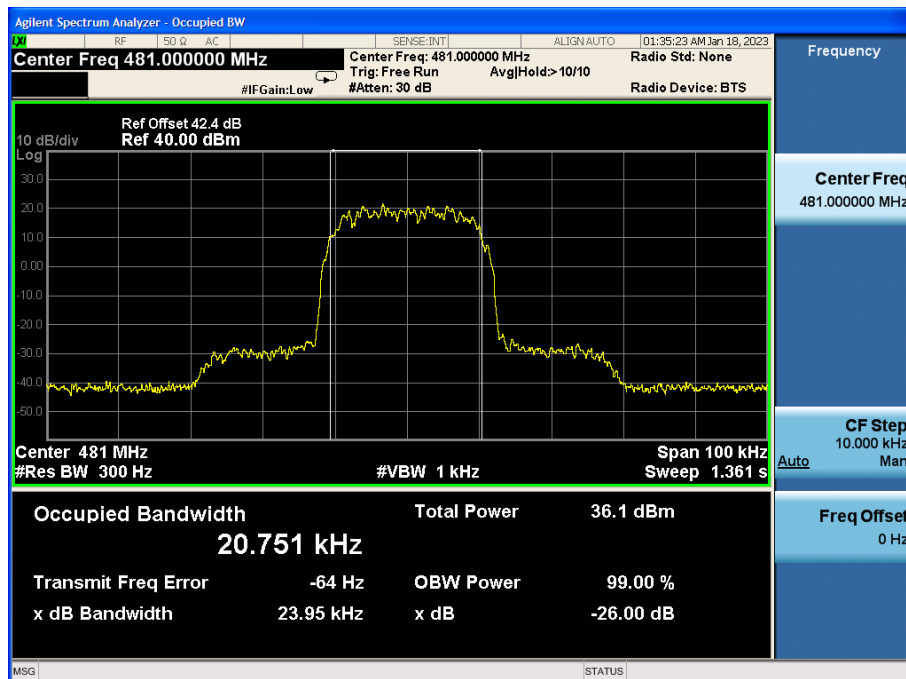
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### 99% OBW

#### DL\_TETRA\_MCH\_Output\_Pre-AGC



#### DL\_TETRA\_MCH\_Output\_3dB above AGC

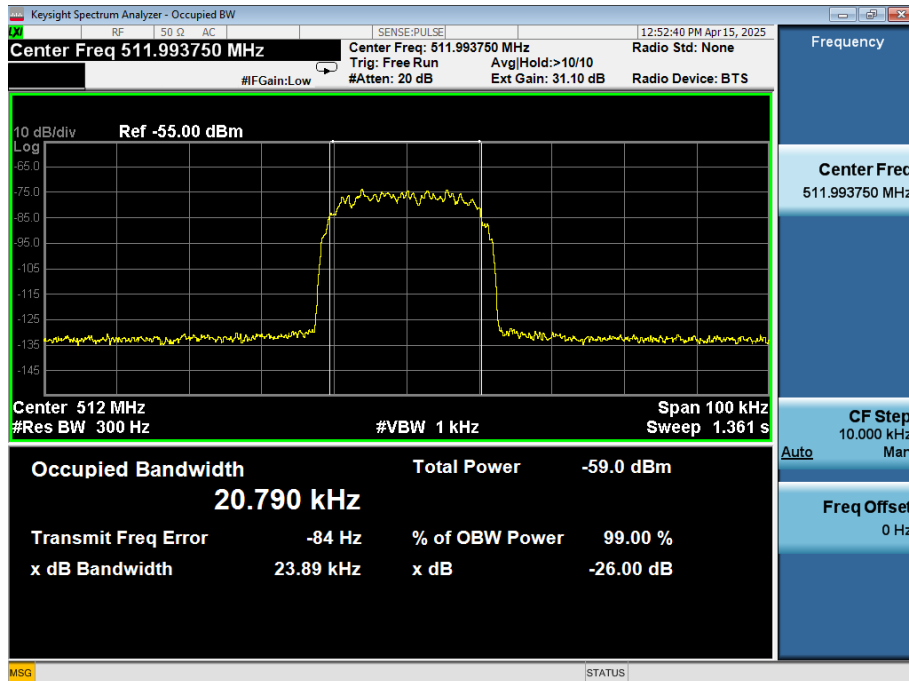


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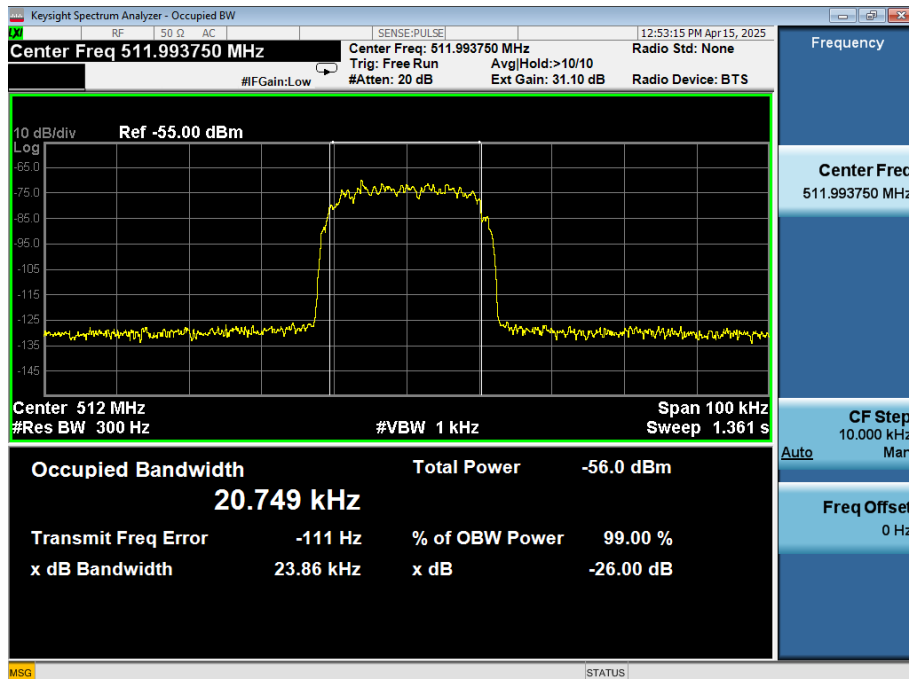
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### 99% OBW

#### DL\_TETRA\_HCH\_Input\_Pre-AGC



#### DL\_TETRA\_HCH\_Input\_3dB above AGC

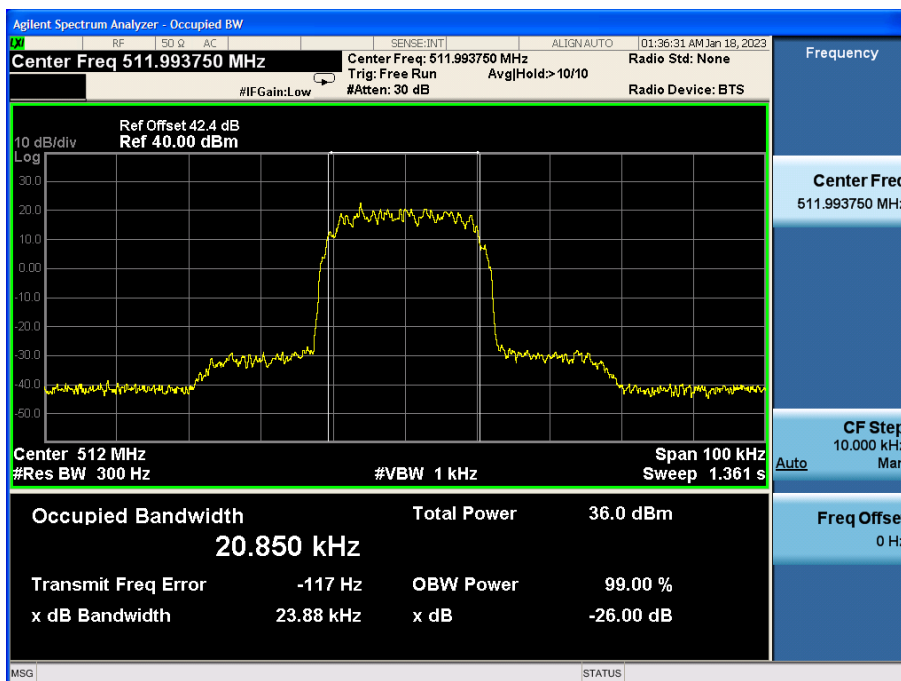


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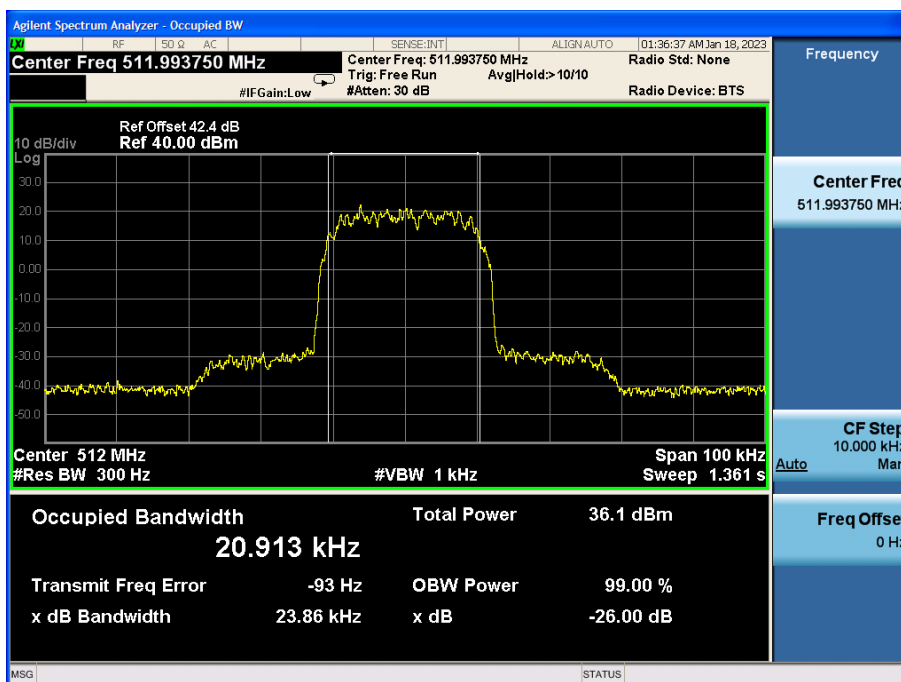
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### 99% OBW

#### DL\_TETRA\_HCH\_Output\_Pre-AGC



#### DL\_TETRA\_HCH\_Output\_3dB above AGC



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## 3 Input/output power and amplifier/booster gain

| Input/output power and amplifier/booster gain |                            |               |                         |                          |            |                     |              |         |
|-----------------------------------------------|----------------------------|---------------|-------------------------|--------------------------|------------|---------------------|--------------|---------|
| Test path                                     | Test frequency<br>f0 (MHz) | Signal level  | Input<br>power<br>(dBm) | Output<br>power<br>(dBm) | ERP<br>(W) | ERP<br>limit<br>(W) | Gain<br>(dB) | Verdict |
| DL                                            | 455.3                      | Pre-AGC       | -59                     | 36.75                    | 2.89       | 5                   | 95.75        | PASS    |
|                                               |                            | 3dB above AGC | -56                     | 36.92                    | 3.00       |                     | /            | PASS    |

### Remark:

- f0 is from Out-of-band Rejection test in the report.
- The manufacturer's rated Output power is 36dBm for DL, and the Output power showed in above table is within  $\pm 1.0$ dB tolerance.
- ERP= Output power (dBm)+ antenna gain (dBi)- 2.15dB, the maximum antenna gain is 0dBi declared by the manufacturer.



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## 4 Emission Masks

| Emission Masks |             |              |               |               |         |
|----------------|-------------|--------------|---------------|---------------|---------|
| Test path      | Test signal | Test channel | Signal level  | Emission mask | Verdict |
| DL             | FM          | LCH          | Pre-AGC       | Mask E        | PASS    |
|                |             |              | 3dB above AGC |               | PASS    |
|                |             | MCH          | Pre-AGC       |               | PASS    |
|                |             |              | 3dB above AGC |               | PASS    |
|                |             | HCH          | Pre-AGC       |               | PASS    |
|                |             |              | 3dB above AGC |               | PASS    |
|                | DMR         | LCH          | Pre-AGC       | Mask D        | PASS    |
|                |             |              | 3dB above AGC |               | PASS    |
|                |             | MCH          | Pre-AGC       |               | PASS    |
|                |             |              | 3dB above AGC |               | PASS    |
|                |             | HCH          | Pre-AGC       |               | PASS    |
|                |             |              | 3dB above AGC |               | PASS    |
|                | C4FM        | LCH          | Pre-AGC       | Mask D        | PASS    |
|                |             |              | 3dB above AGC |               | PASS    |
|                |             | MCH          | Pre-AGC       |               | PASS    |
|                |             |              | 3dB above AGC |               | PASS    |
|                |             | HCH          | Pre-AGC       |               | PASS    |
|                |             |              | 3dB above AGC |               | PASS    |
|                | H-DQPSK     | LCH          | Pre-AGC       | Mask D        | PASS    |
|                |             |              | 3dB above AGC |               | PASS    |
|                |             | MCH          | Pre-AGC       |               | PASS    |
|                |             |              | 3dB above AGC |               | PASS    |
|                |             | HCH          | Pre-AGC       |               | PASS    |
|                |             |              | 3dB above AGC |               | PASS    |



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| Emission Masks |             |              |               |               |         |
|----------------|-------------|--------------|---------------|---------------|---------|
| Test path      | Test signal | Test channel | Signal level  | Emission mask | Verdict |
| DL             | TETRA       | LCH          | Pre-AGC       | Mask B        | PASS    |
|                |             |              | 3dB above AGC |               | PASS    |
|                |             | MCH          | Pre-AGC       |               | PASS    |
|                |             |              | 3dB above AGC |               | PASS    |
|                |             | HCH          | Pre-AGC       |               | PASS    |
|                |             |              | 3dB above AGC |               | PASS    |

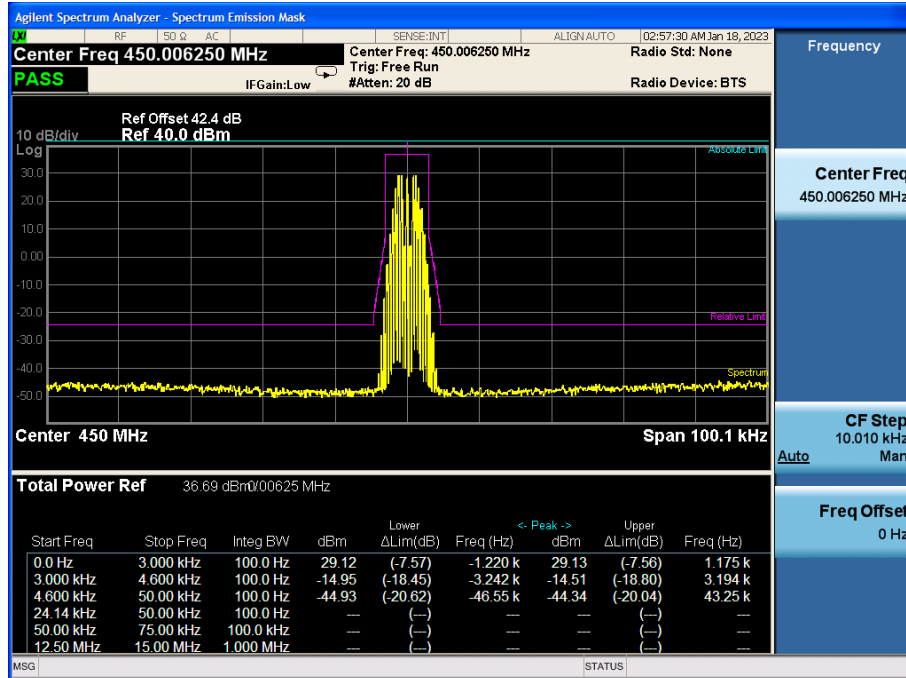


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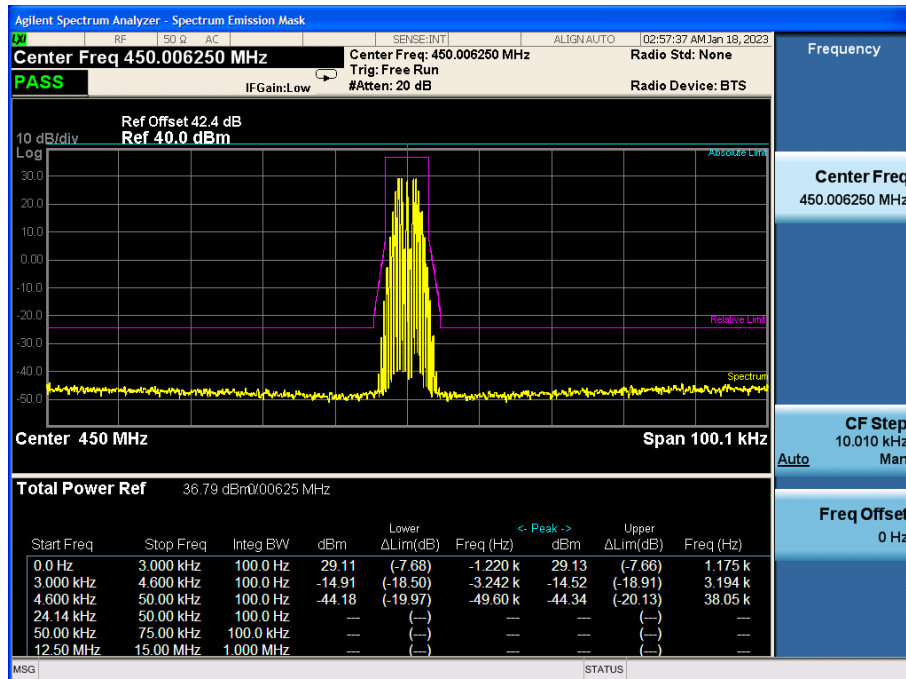
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### Emission Masks

#### DL\_FM\_LCH\_Pre-AGC



#### DL\_FM\_LCH\_3dB above AGC



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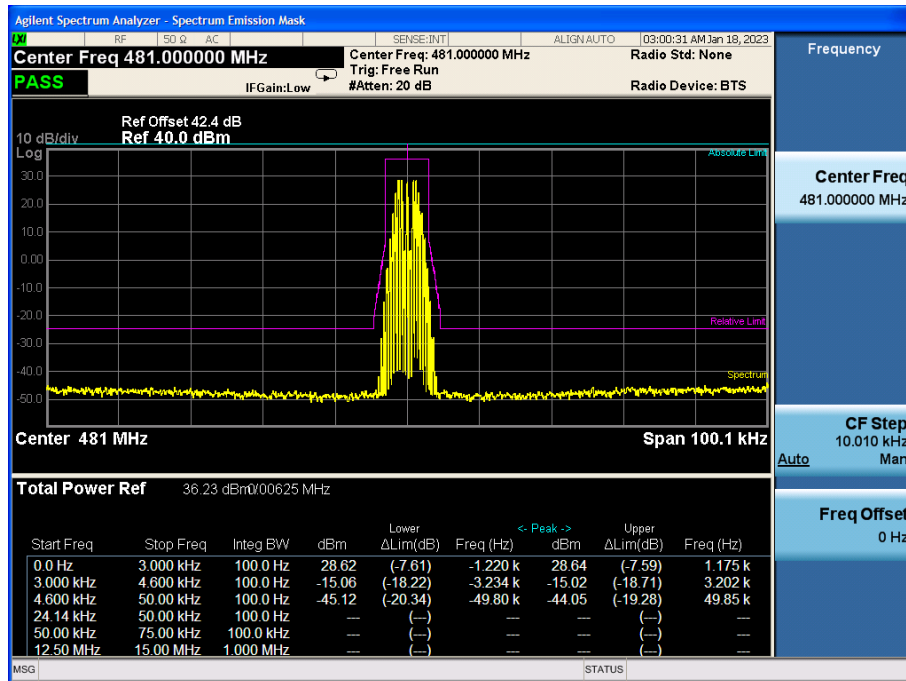
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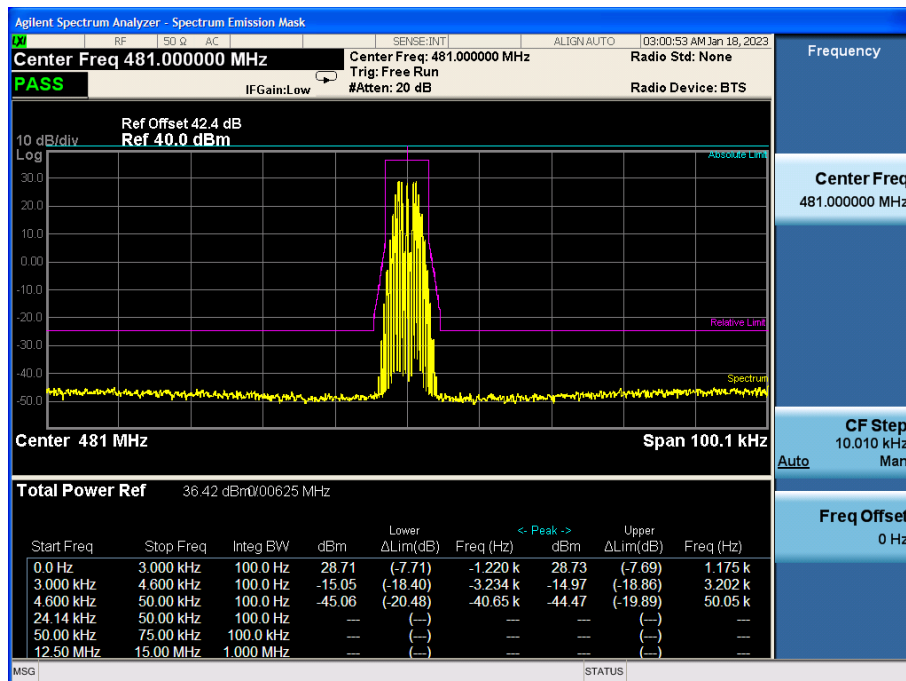
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### Emission Masks

#### DL\_FM\_MCH\_Pre-AGC



#### DL\_FM\_MCH\_3dB above AGC



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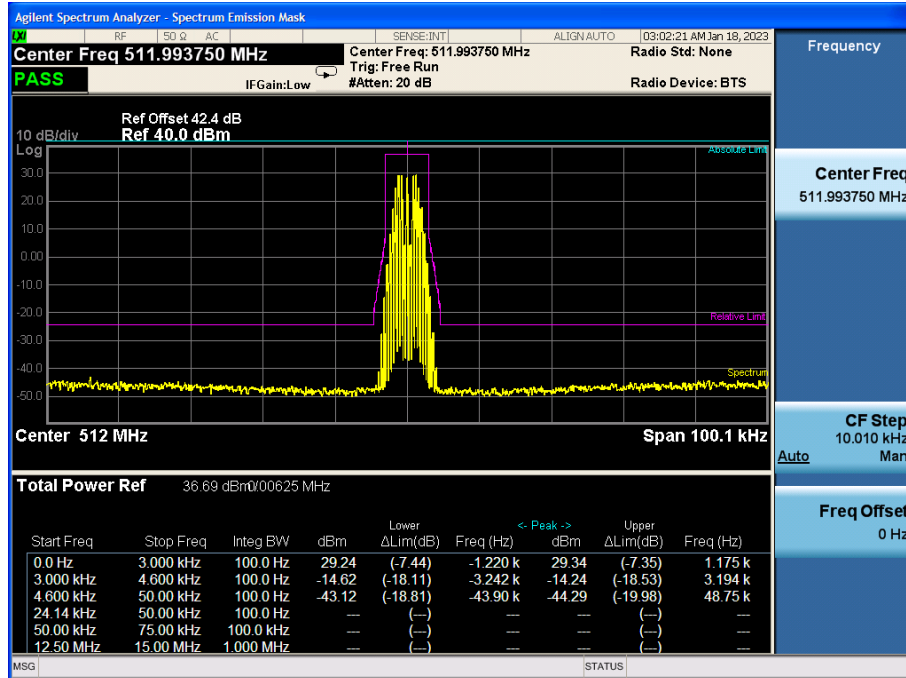
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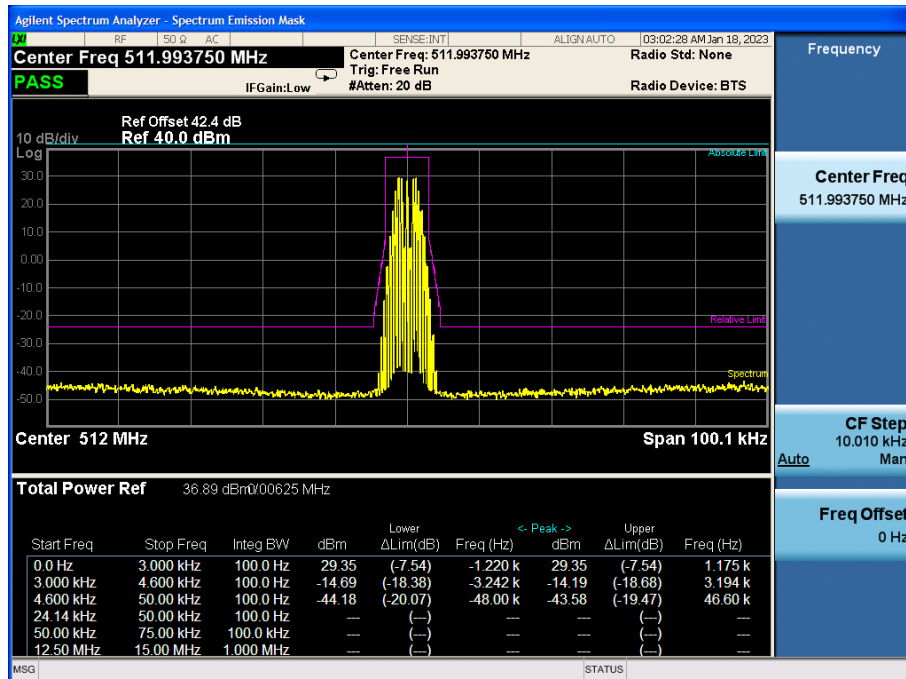
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### Emission Masks

#### DL\_FM\_HCH\_Pre-AGC



#### DL\_FM\_HCH\_3dB above AGC



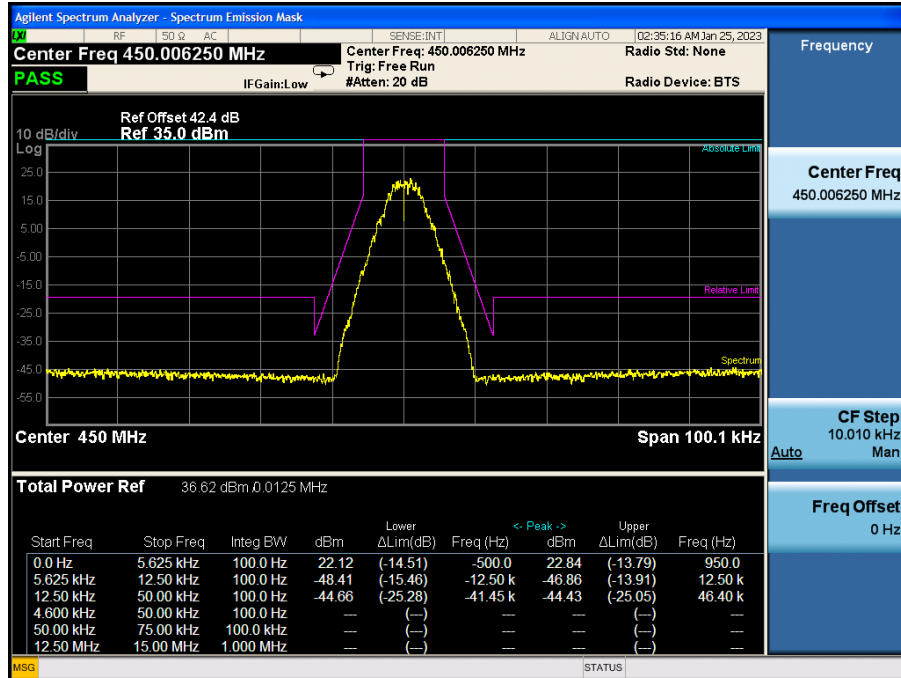
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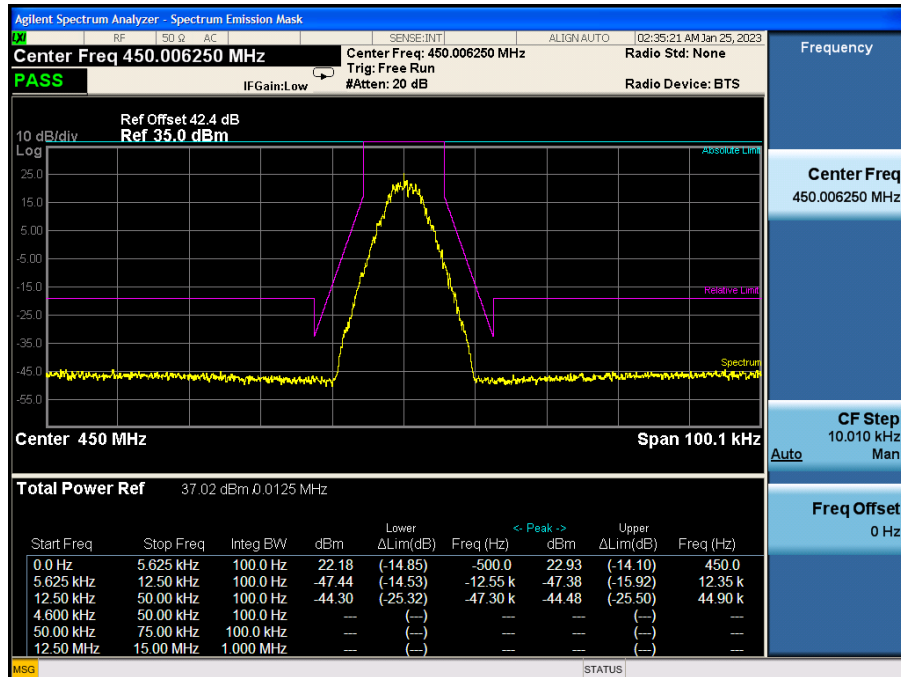
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### Emission Masks

#### DL\_DMR\_LCH\_Pre-AGC

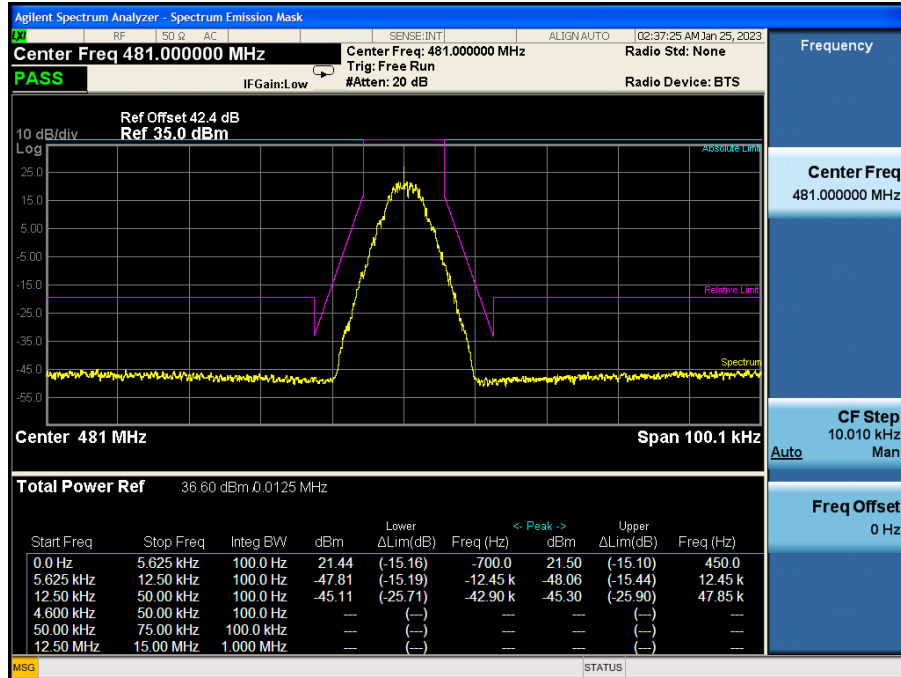


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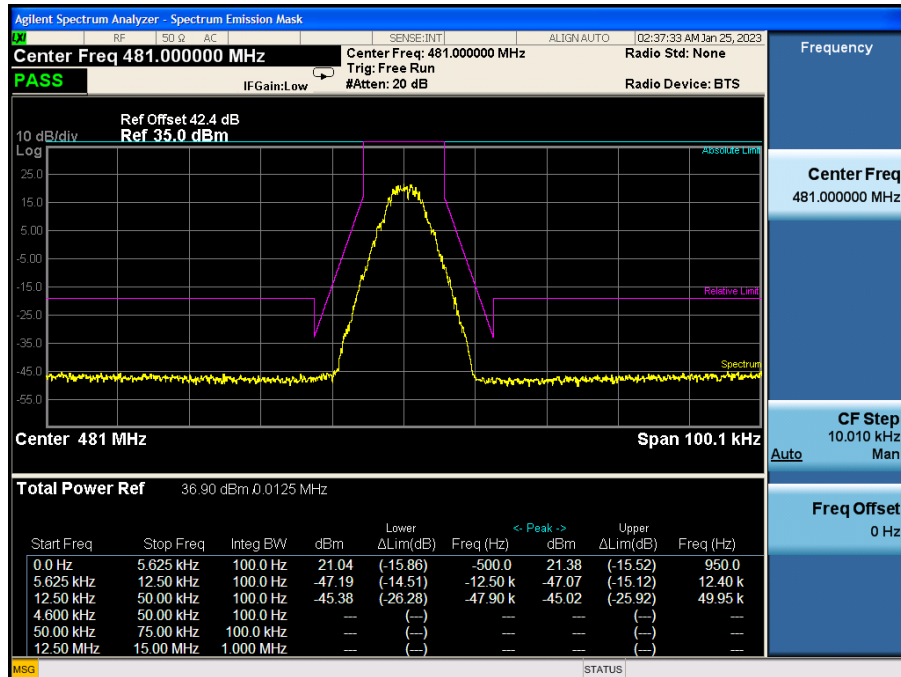


### Emission Masks

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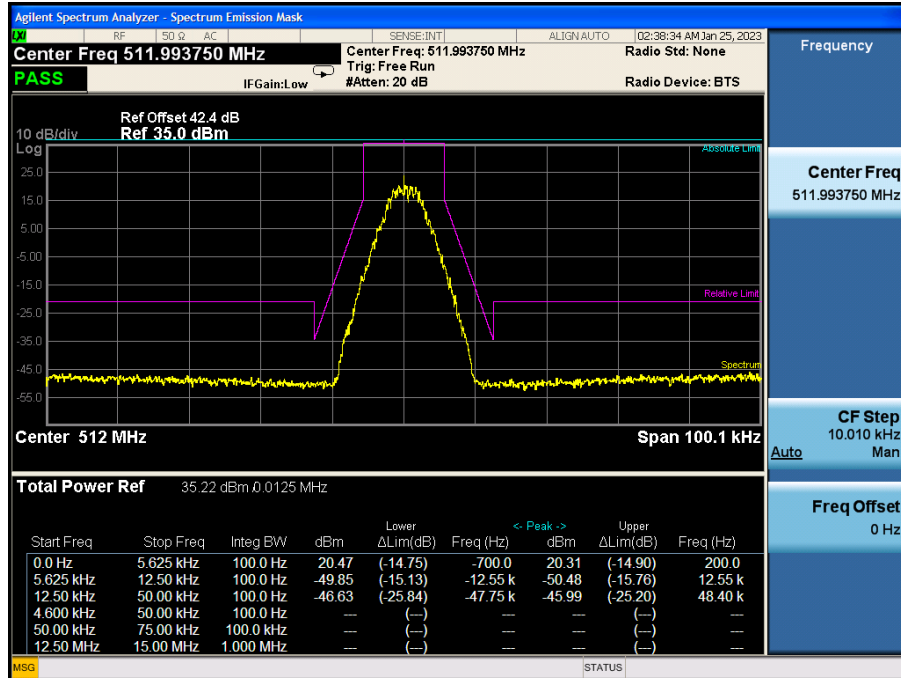


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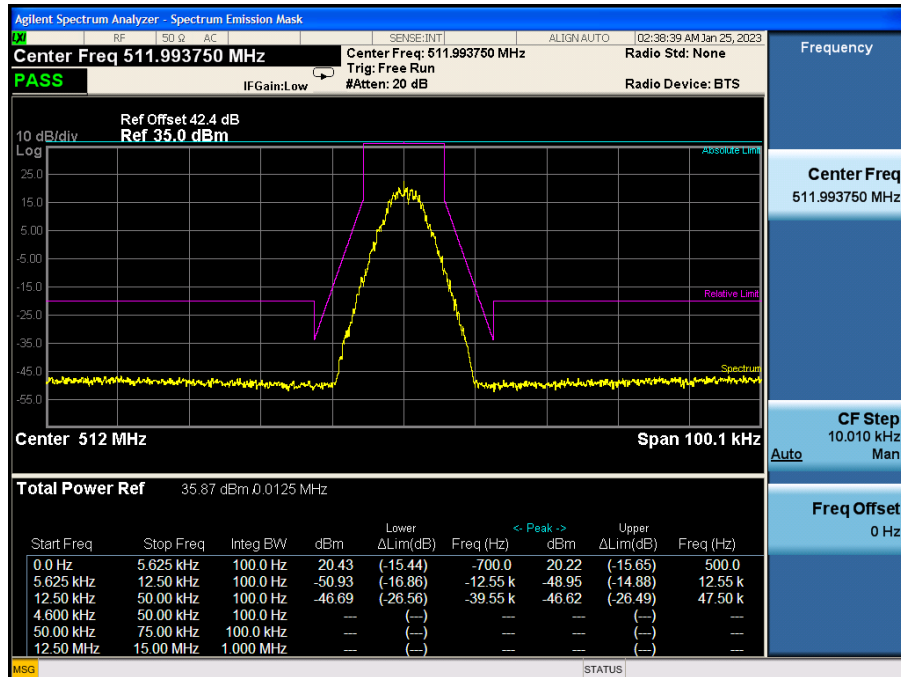


### Emission Masks

#### DL\_DMR\_HCH\_Pre-AGC

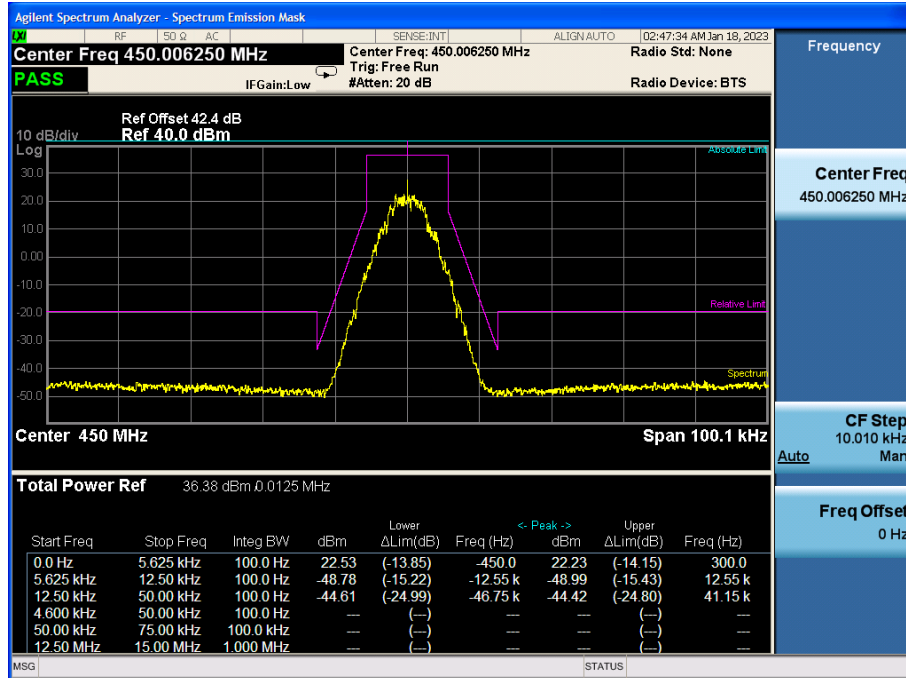


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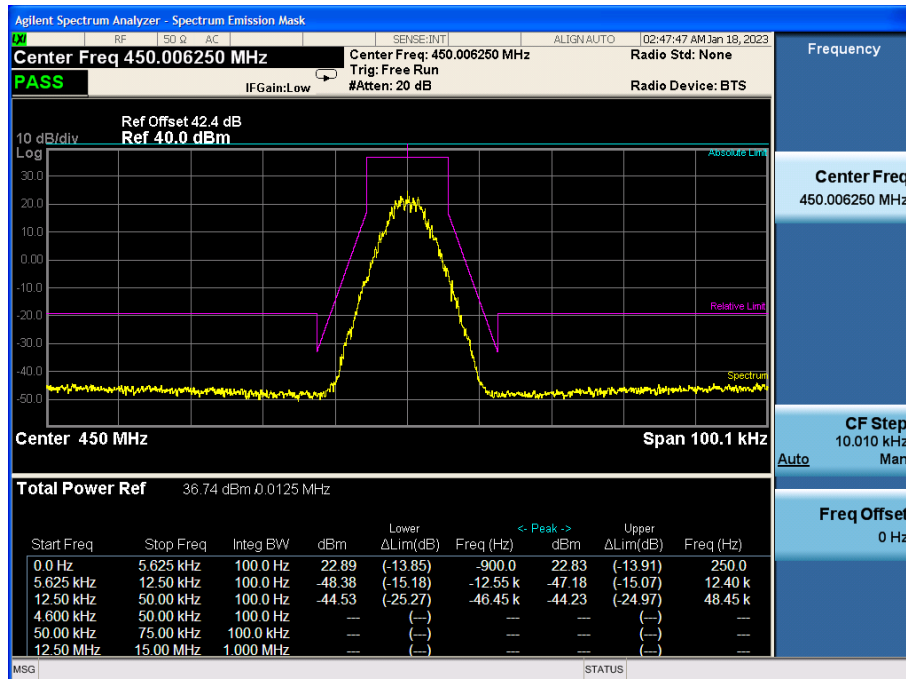


### Emission Masks

#### DL\_C4FM\_LCH\_Pre-AGC

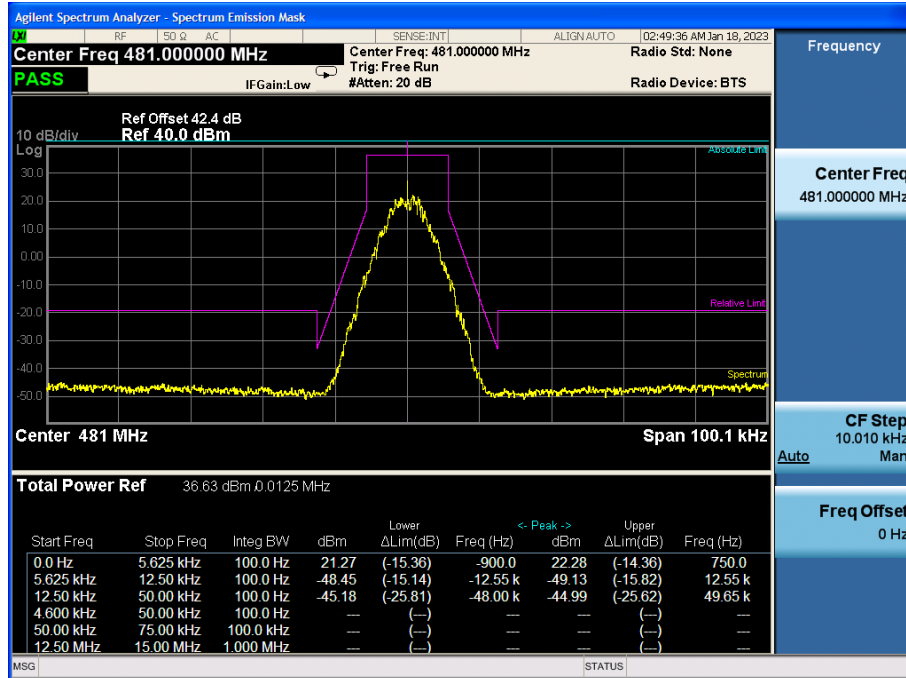


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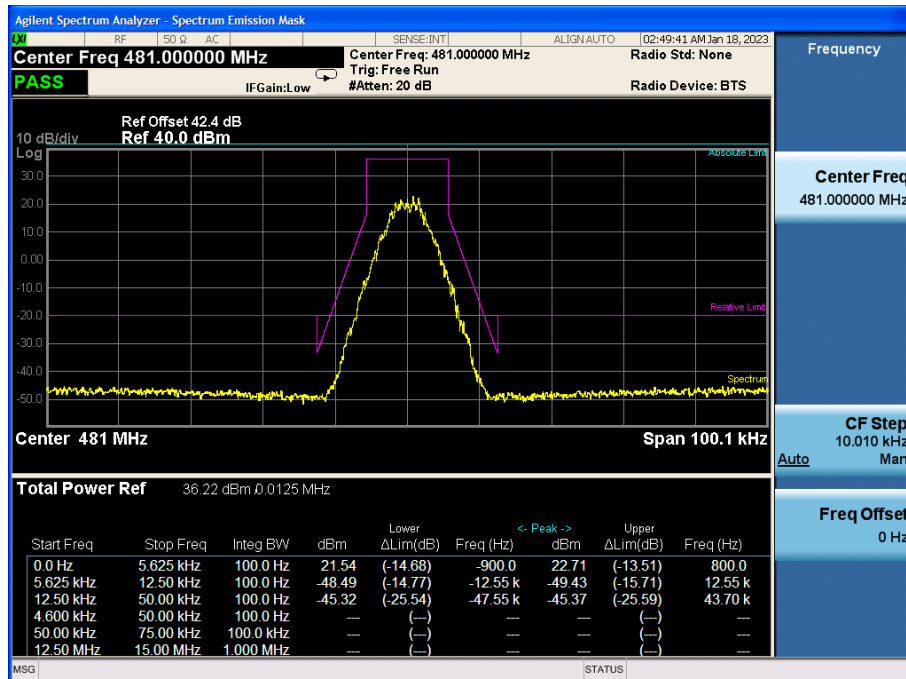


### Emission Masks

#### DL\_C4FM\_MCH\_Pre-AGC



#### DL\_C4FM\_MCH\_3dB above AGC



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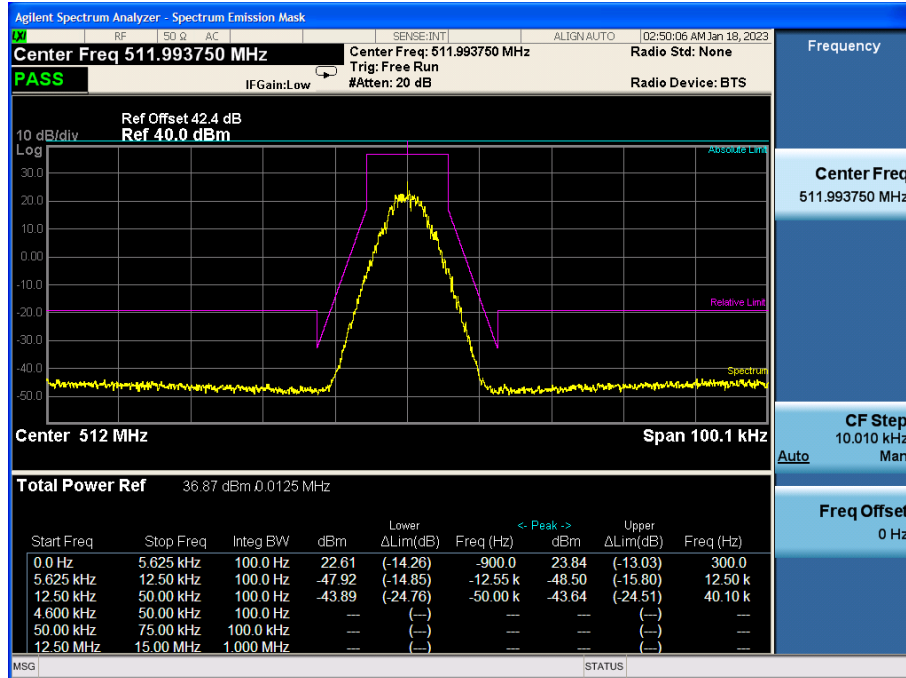
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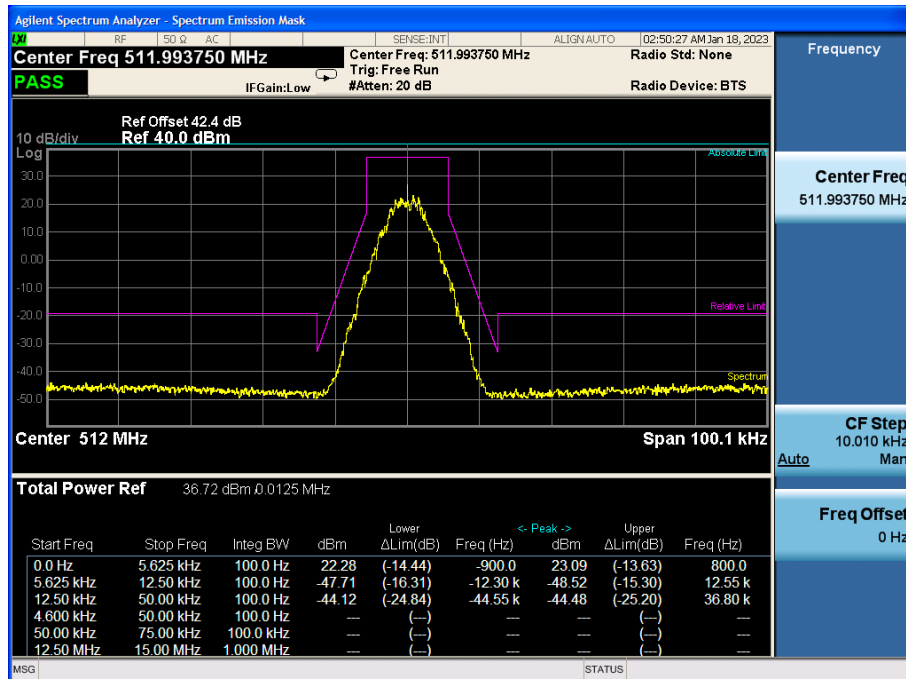
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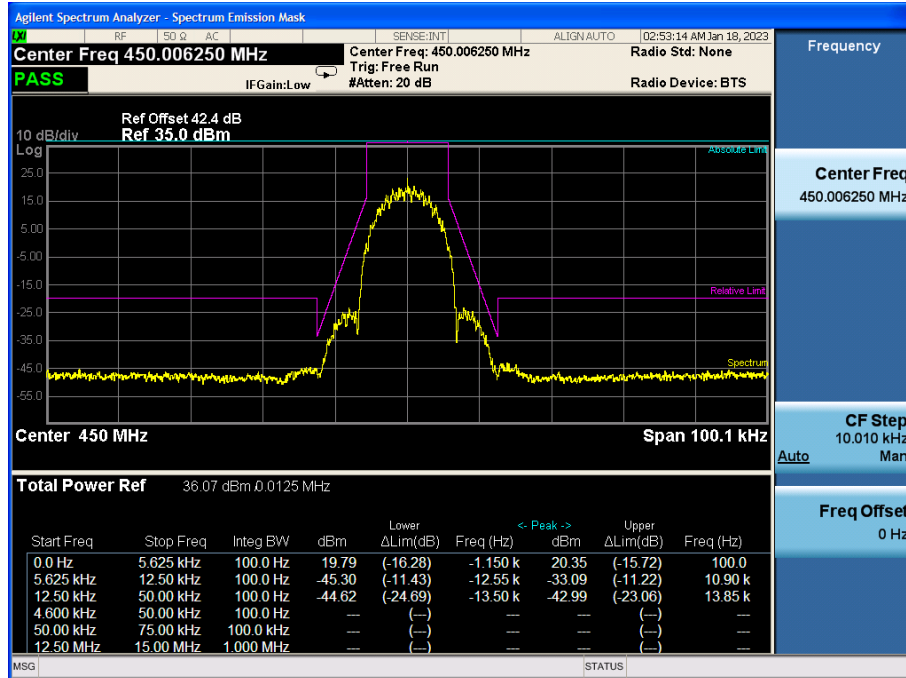


#### DL\_C4FM\_HCH\_3dB above AGC

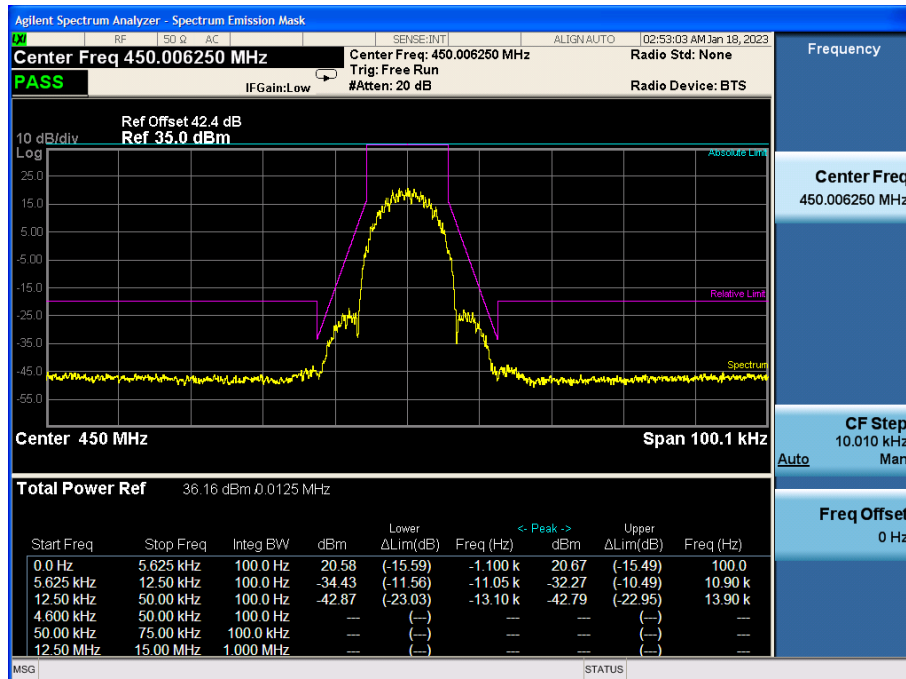


### Emission Masks

#### DL\_H-DQPSK\_LCH\_Pre-AGC



#### DL\_H-DQPSK\_LCH\_3dB above AGC



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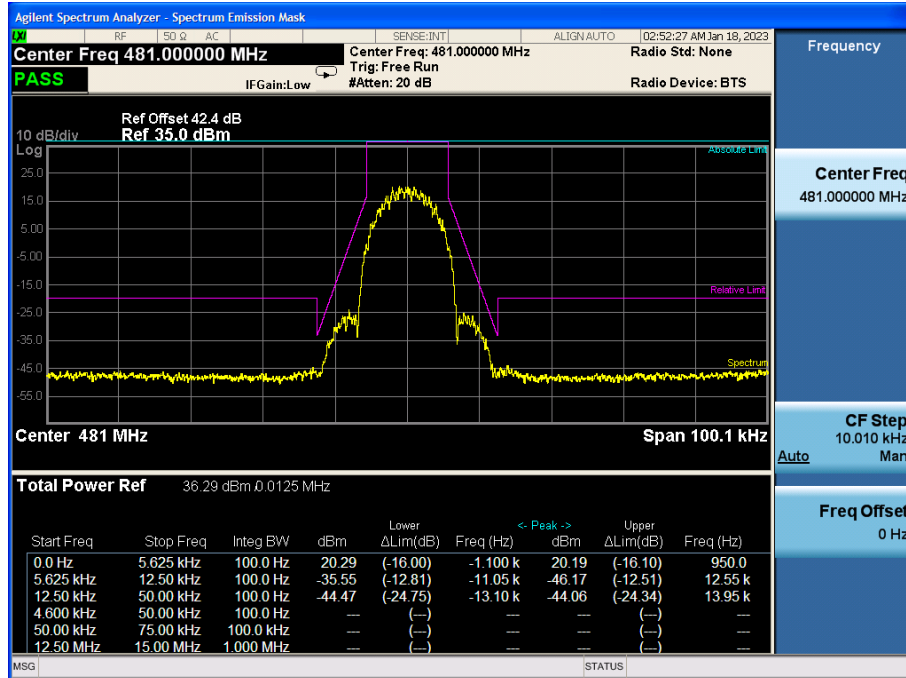
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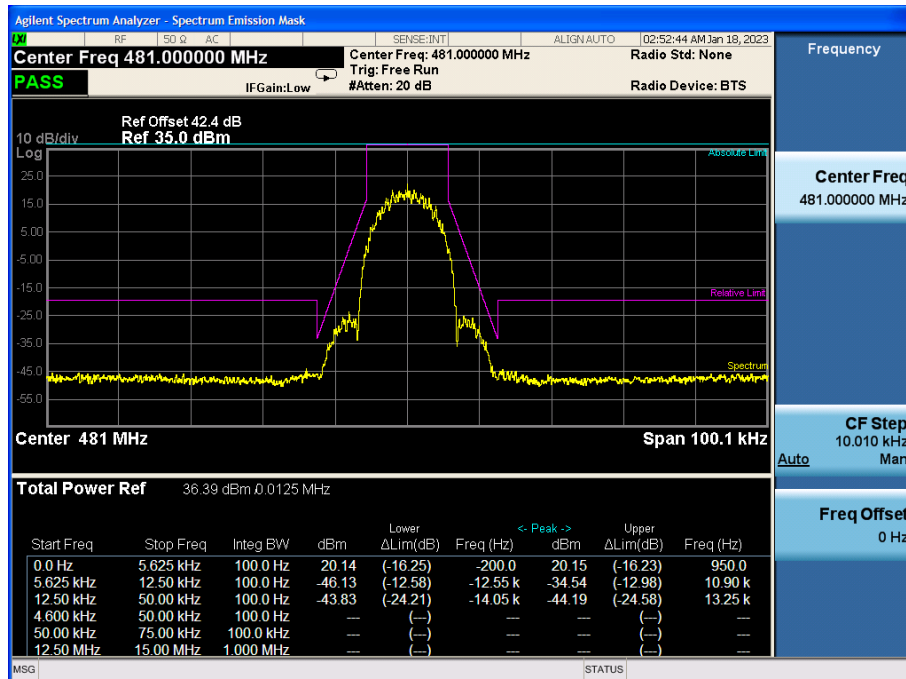
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### Emission Masks

#### DL\_H-DQPSK\_MCH\_Pre-AGC



#### DL\_H-DQPSK\_MCH\_3dB above AGC



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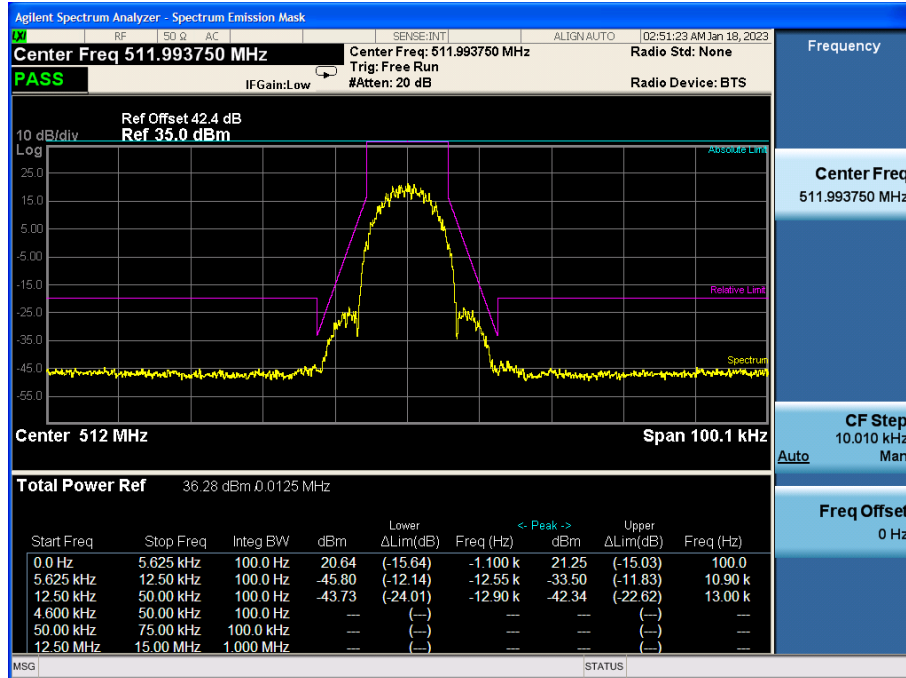
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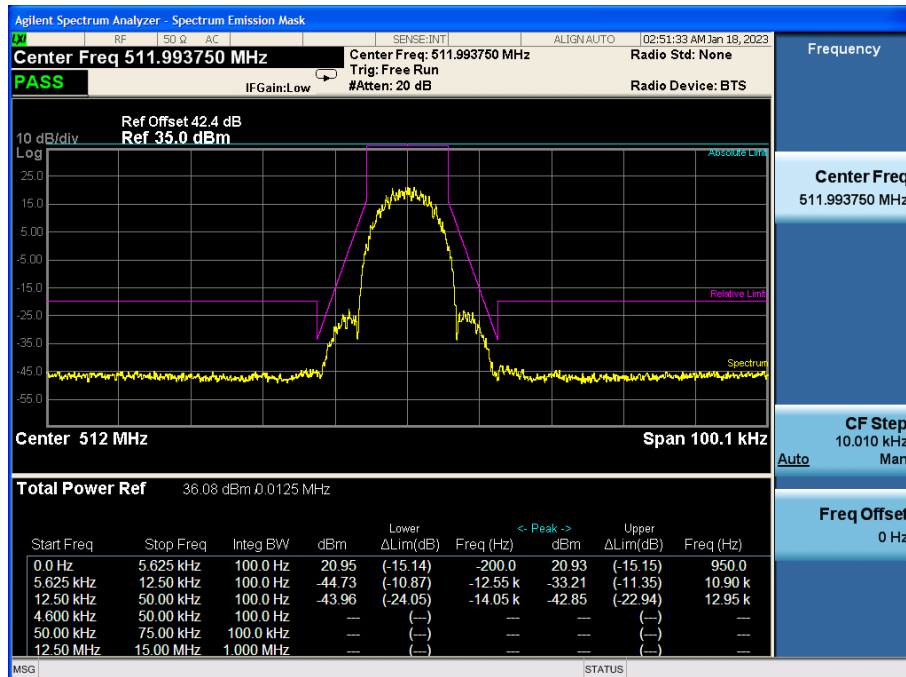
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### Emission Masks

#### DL\_H-DQPSK\_HCH\_Pre-AGC



#### DL\_H-DQPSK\_HCH\_3dB above AGC



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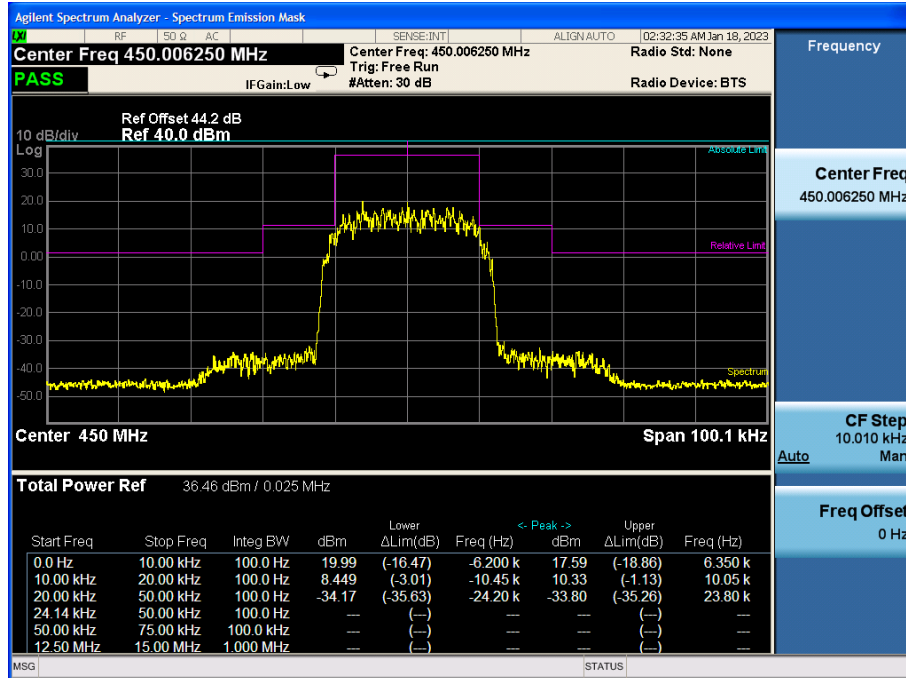
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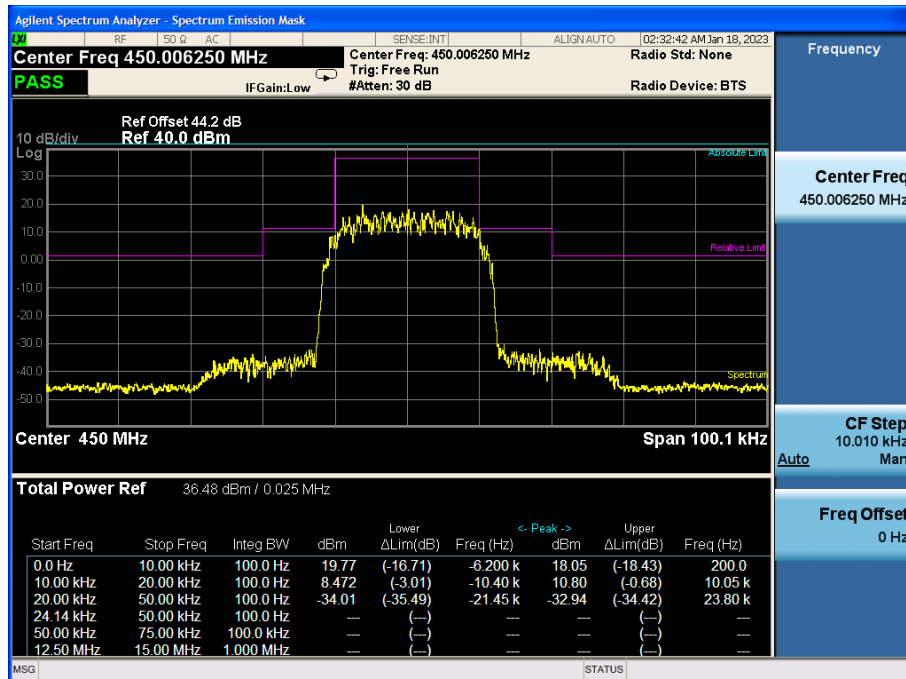
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### Emission Masks

#### DL\_TETRA\_LCH\_Pre-AGC



#### DL\_TETRA\_LCH\_3dB above AGC



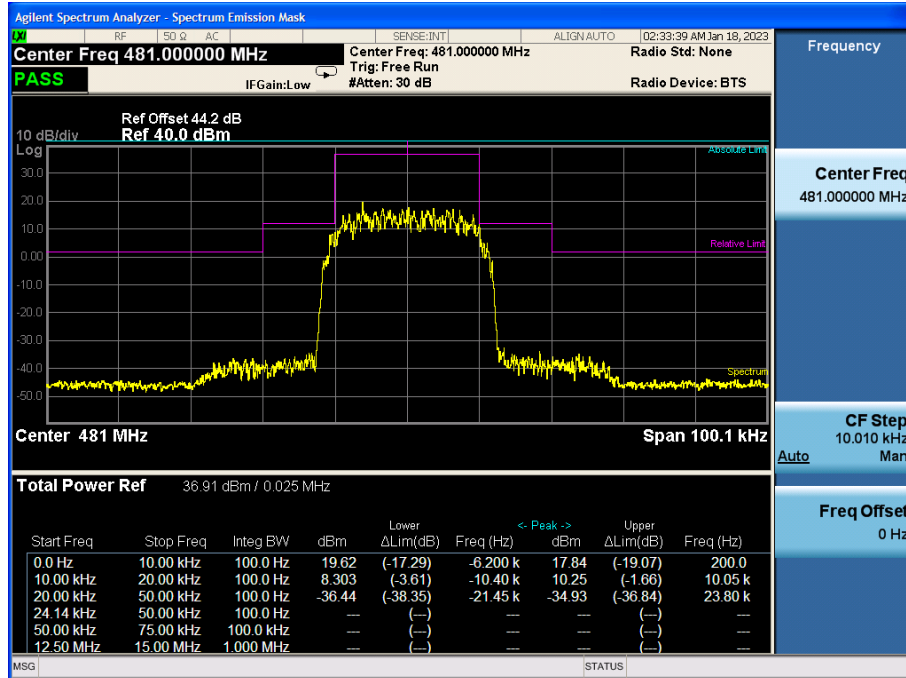
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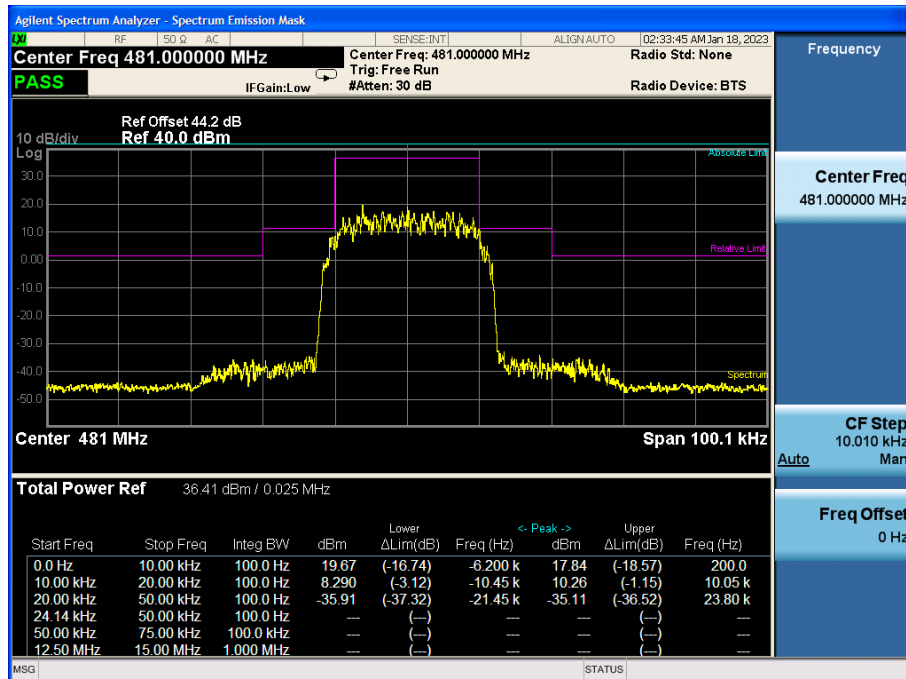
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### Emission Masks

#### DL\_TETRA\_MCH\_Pre-AGC



#### DL\_TETRA\_MCH\_3dB above AGC



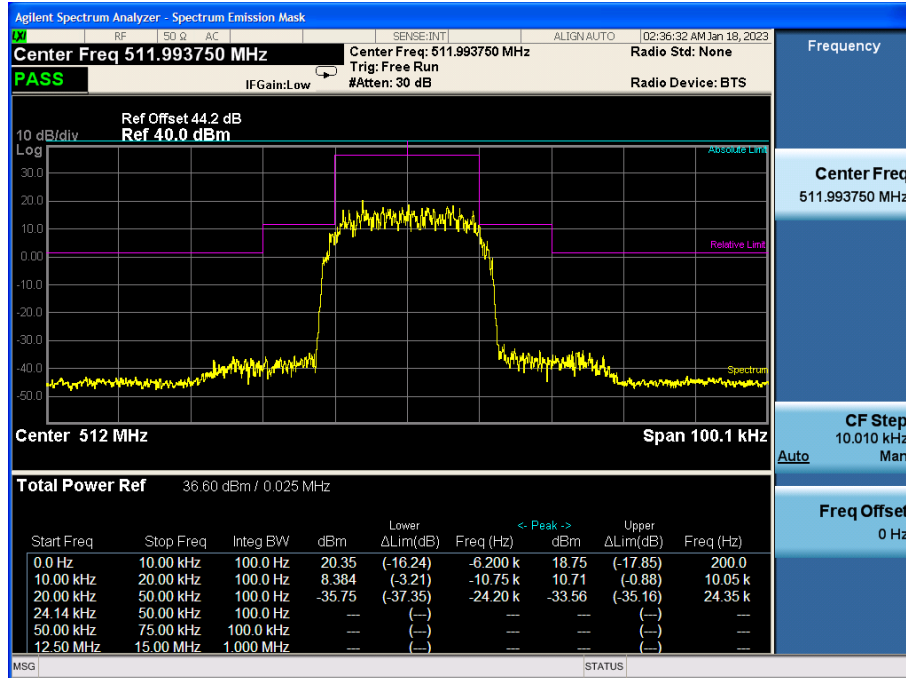
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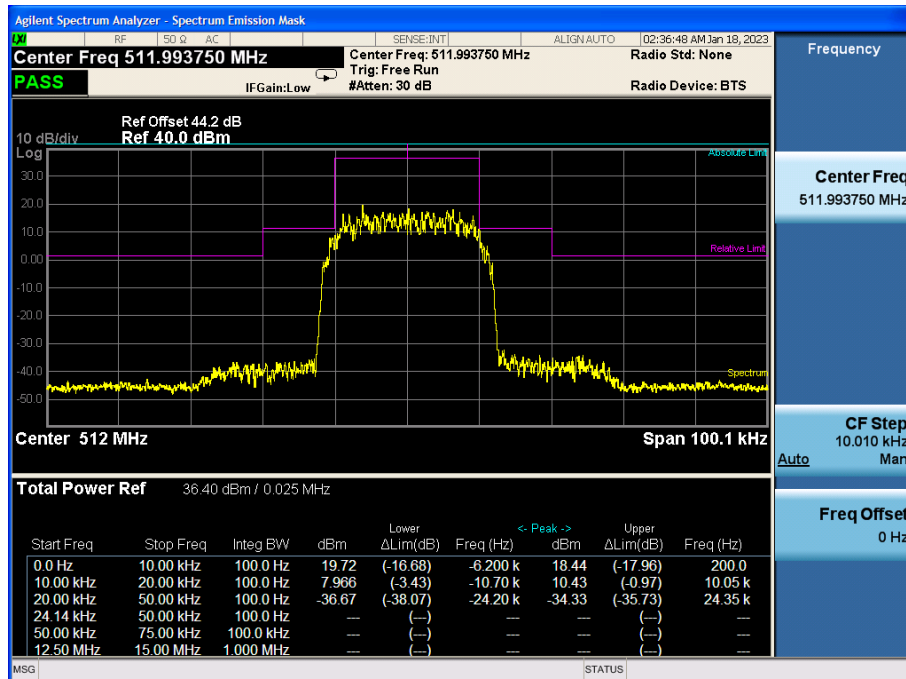
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### Emission Masks

#### DL\_TETRA\_HCH\_Pre-AGC



#### DL\_TETRA\_HCH\_3dB above AGC



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EMC-ARF-05 Rev 1.1

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### 5 Noise Figure

| Noise Figure |                   |            |         |
|--------------|-------------------|------------|---------|
| Test path    | Noise figure (dB) | Limit (dB) | Verdict |
| DL           | 5.03              | ≤9         | PASS    |



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## 6 Intermodulation

| Intermodulation |                         |                         |               |                                  |                             |
|-----------------|-------------------------|-------------------------|---------------|----------------------------------|-----------------------------|
| Test path       | Test frequency f0 (MHz) | CW signal spacing (kHz) | Signal level  | Worst conducted test level (dBm) |                             |
|                 |                         |                         |               | 300Hz measurement bandwidth      | 10kHz measurement bandwidth |
| DL              | 455.3                   | 6.25                    | Pre-AGC       | -19.88                           | -4.65                       |
|                 |                         |                         | 3dB above AGC | -19.43                           | -4.20                       |
|                 |                         | 12.5                    | Pre-AGC       | -19.83                           | -4.60                       |
|                 |                         |                         | 3dB above AGC | -19.45                           | -4.22                       |
|                 |                         | 25                      | Pre-AGC       | -20.17                           | -4.94                       |
|                 |                         |                         | 3dB above AGC | -20.35                           | -5.12                       |

Remark:

- f0 is from Out-of-band Rejection test in the report.
- The level in 10kHz measurement bandwidth= the level in 300Hz measurement bandwidth+ 10lg(10000/300).
- ERP= conducted test level (dBm)+ antenna gain (dBi)- 2.15dB, the maximum antenna gain is 0dBi and declared by the manufacturer.
- The ERP of worst intermodulation products is -4.20/10kHz+ 0dBi- 2.15dB= -6.35dBm, the applicant must use good engineering practice to make sure that the ERP of intermodulation products should not exceed -30dBm in 10kHz measurement bandwidth.

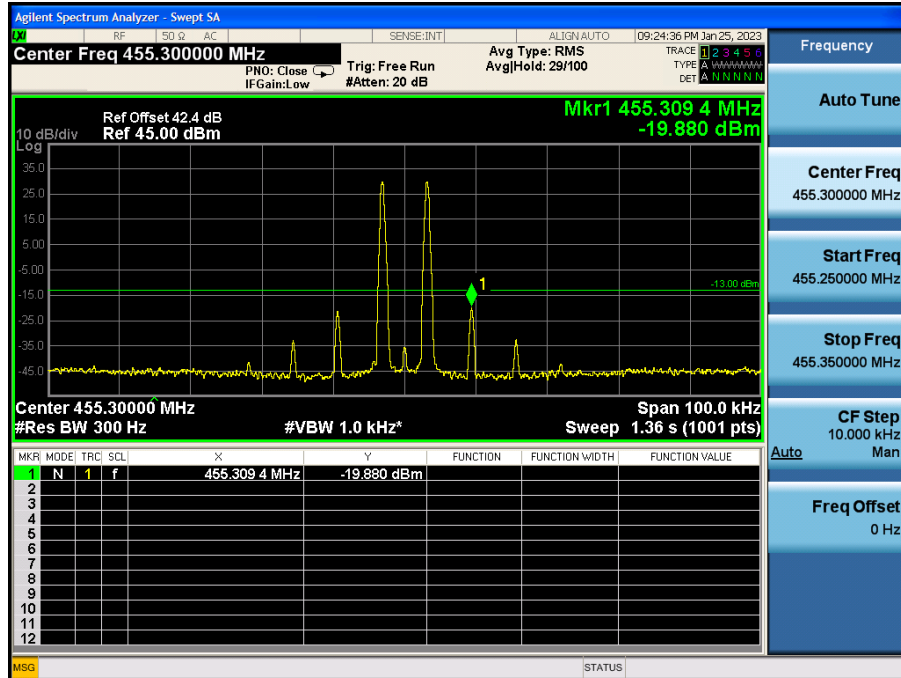


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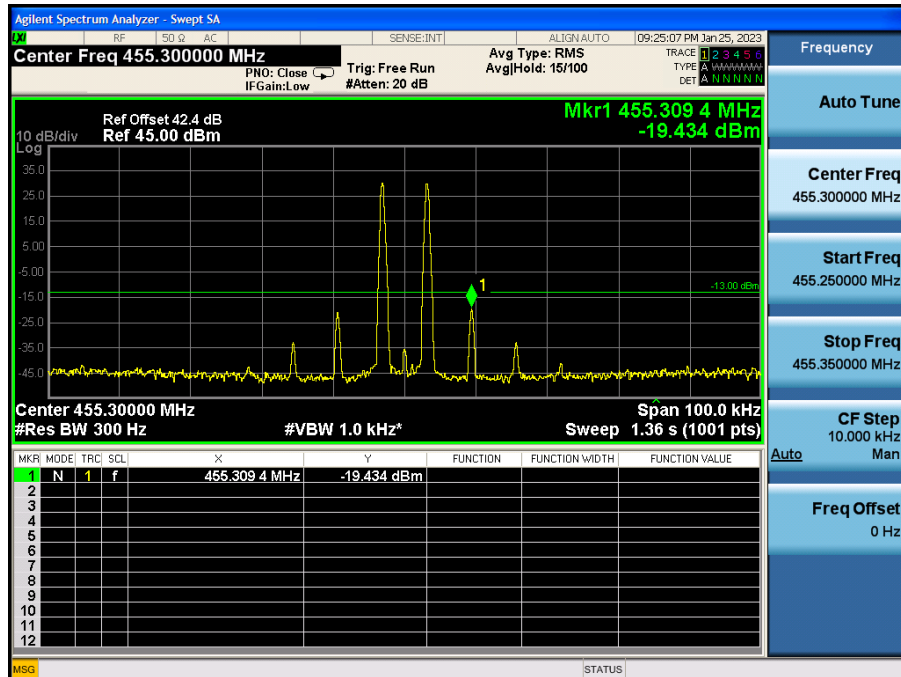
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### Intermodulation

#### DL\_6.25kHz\_Pre-AGC

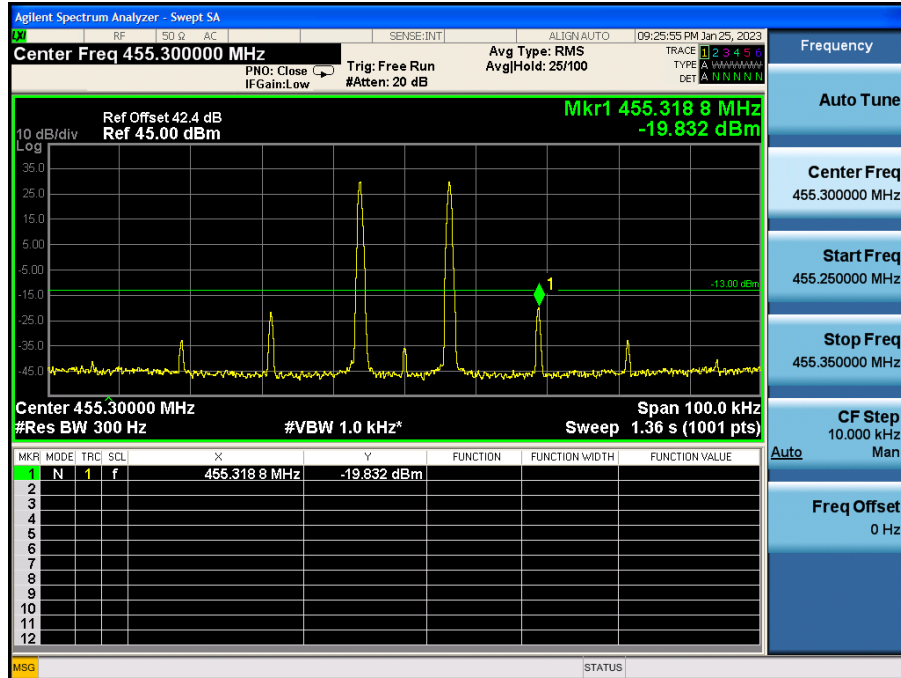


#### DL\_6.25kHz\_3dB above AGC

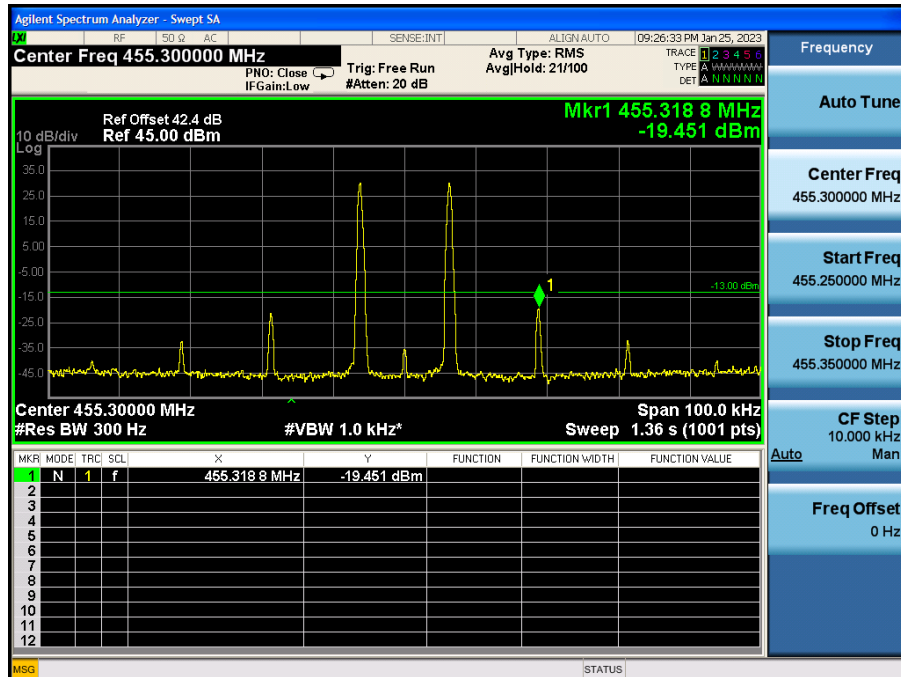


### Intermodulation

#### DL\_12.5kHz\_Pre-AGC



#### DL\_12.5kHz\_3dB above AGC



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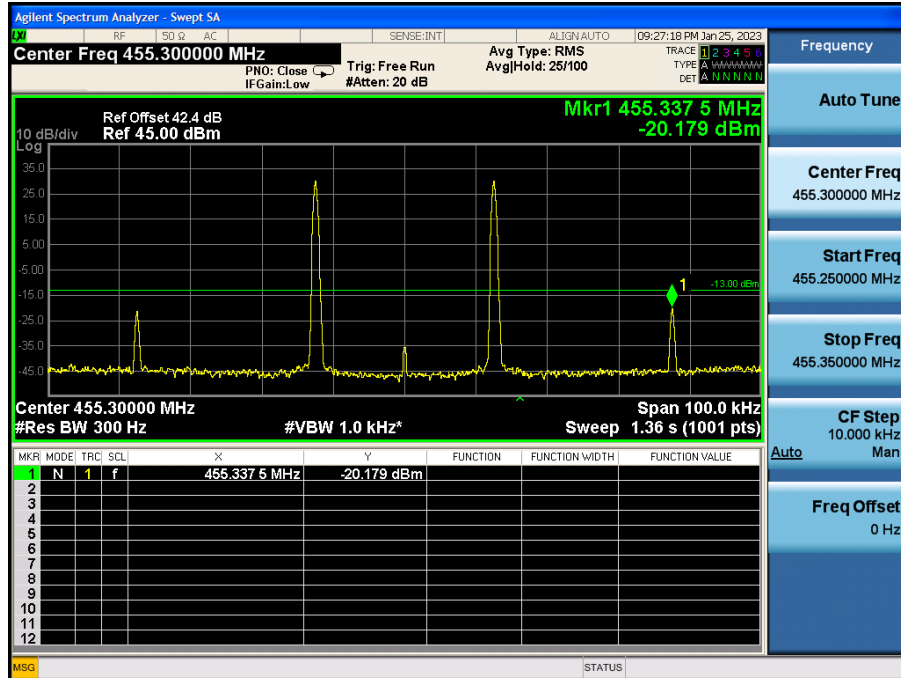
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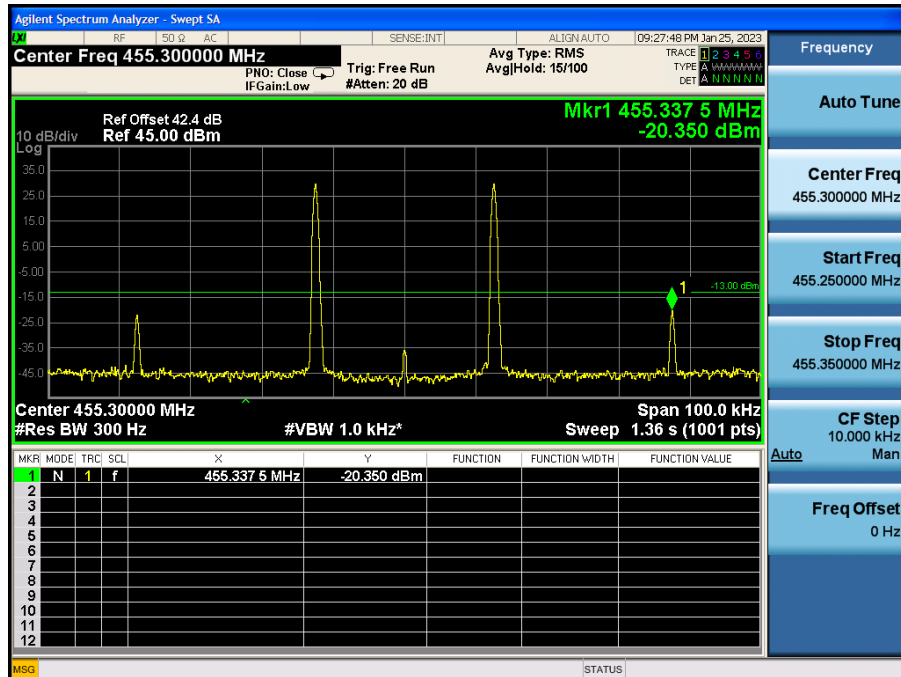
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### Intermodulation

#### DL\_25kHz\_Pre-AGC



#### DL\_25kHz\_3dB above AGC



## 7 Conducted Spurious emissions

| Conducted Spurious emissions                                                                                         |             |              |                       |                        |             |         |
|----------------------------------------------------------------------------------------------------------------------|-------------|--------------|-----------------------|------------------------|-------------|---------|
| Test path                                                                                                            | Test signal | Test channel | Frequency range (MHz) | Worst test level (dBm) | Limit (dBm) | Verdict |
| DL                                                                                                                   | CW          | MCH          | 0.009-1000            | -26.30                 | ≤-13        | PASS    |
|                                                                                                                      |             |              | 1000-5120             | -24.34                 | ≤-13        | PASS    |
| Remark:<br>The conducted spurious emissions 9kHz to 30MHz were very low and not displayed test plots in this report. |             |              |                       |                        |             |         |

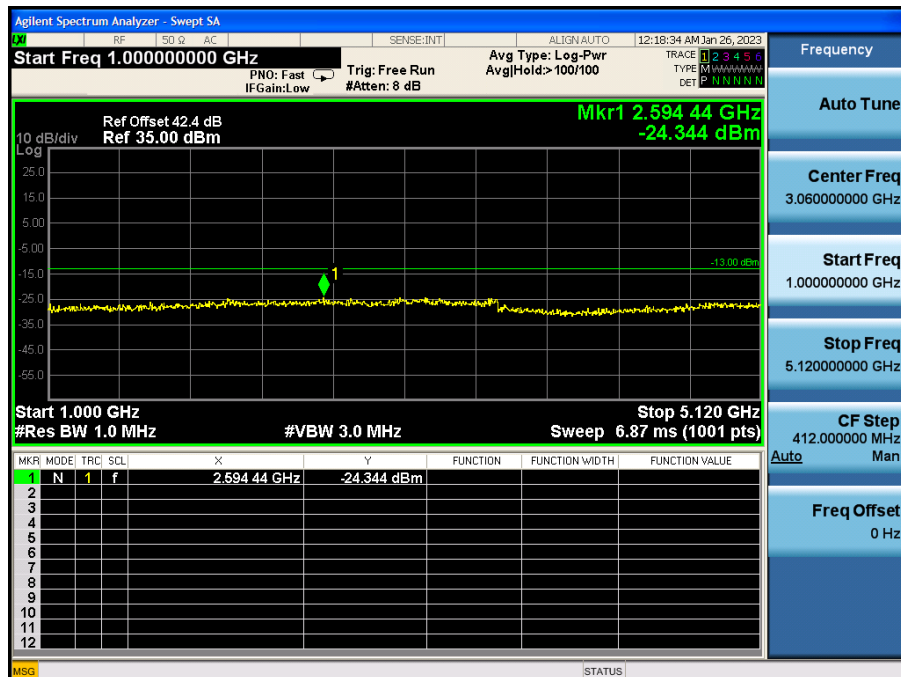
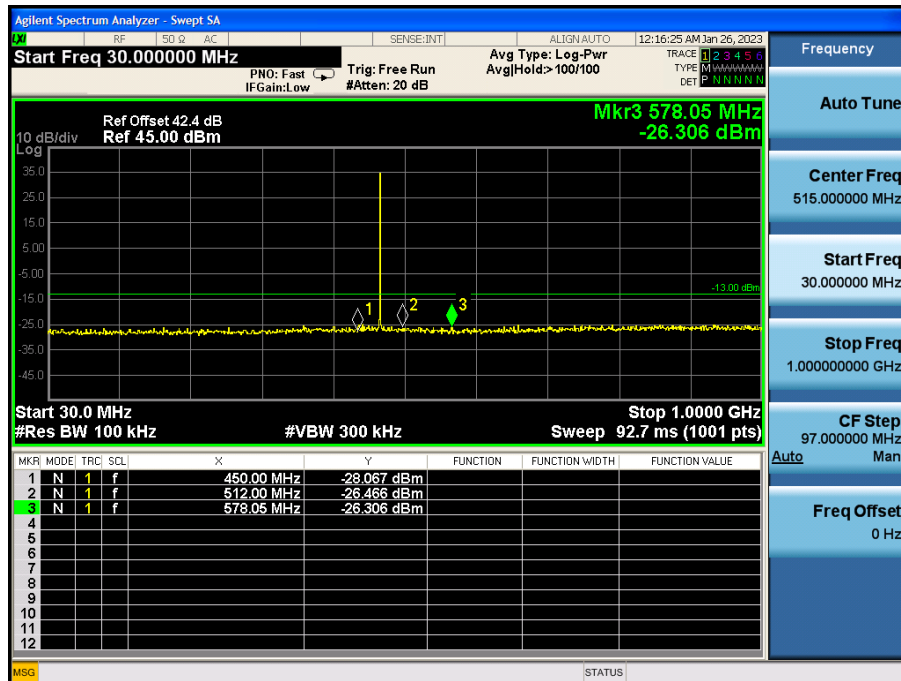


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### Conducted Spurious emissions

#### DL\_CW\_MCH



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## 8 Noise

| Noise within the passband     |                       |                                  |
|-------------------------------|-----------------------|----------------------------------|
| Test path                     | Frequency range (MHz) | Worst conducted test level (dBm) |
| DL                            | 450-512               | -36.11                           |
| Noise outside of the passband |                       |                                  |
| Test path                     | Frequency range (MHz) | Worst conducted test level (dBm) |
| DL                            | 0.009-449             | -43.81                           |
|                               | 513-5120              | -44.69                           |

### Remark:

1. ERP= conducted test level (dBm)+ antenna gain (dBi)- 2.15dB, the antenna gain is 0dBi declared by the manufacturer.
2. The ERP of worst noise within the passband is -36.11/10kHz+ 0dBi- 2.15dB= -38.26dBm, the applicant must use good engineering practice to make sure that the ERP of noise within the passband should not exceed -43dBm in 10kHz measurement bandwidth.
3. The ERP of worst noise outside of the passband is -43.81/10kHz+ 0dBi- 2.15dB= -45.96dBm, the applicant must use good engineering practice to make sure that the ERP of noise outside the passband should not exceed -70dBm in 10kHz measurement bandwidth.
4. The noise 9kHz to 30MHz were very low and not displayed test plots in this report.

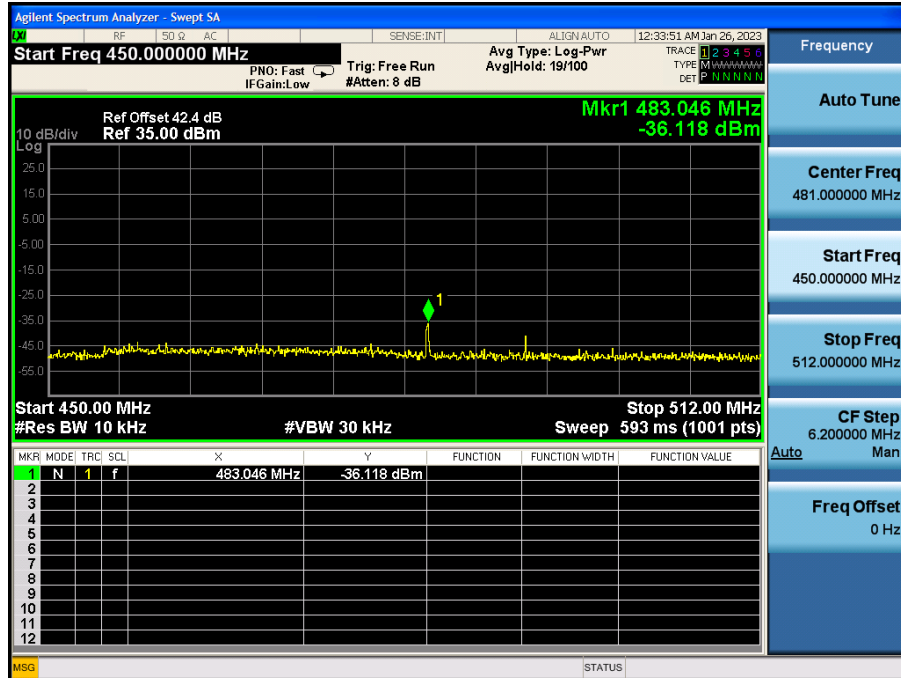


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### Noise within the passband

DL

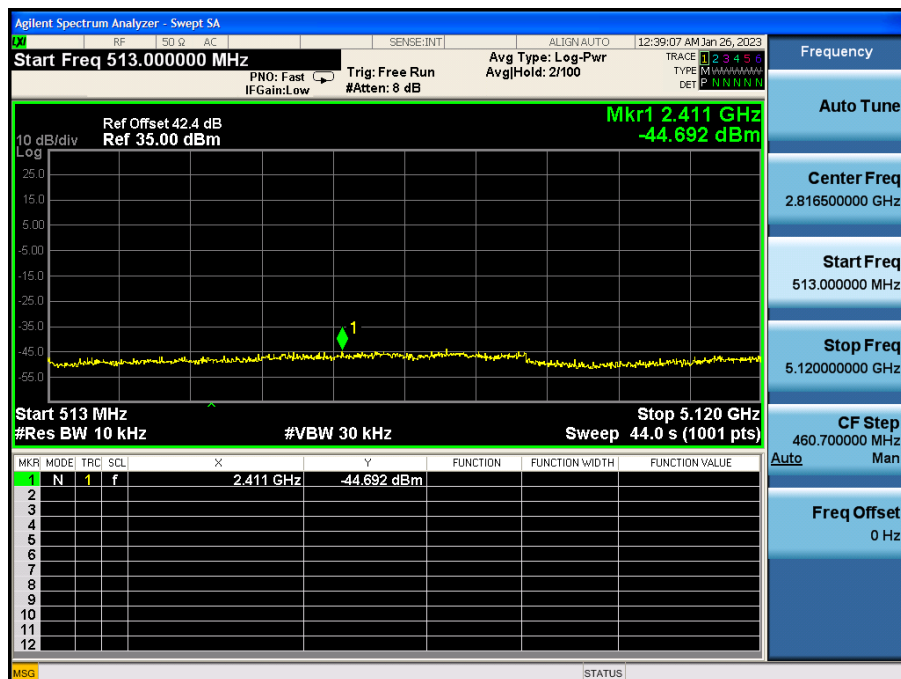
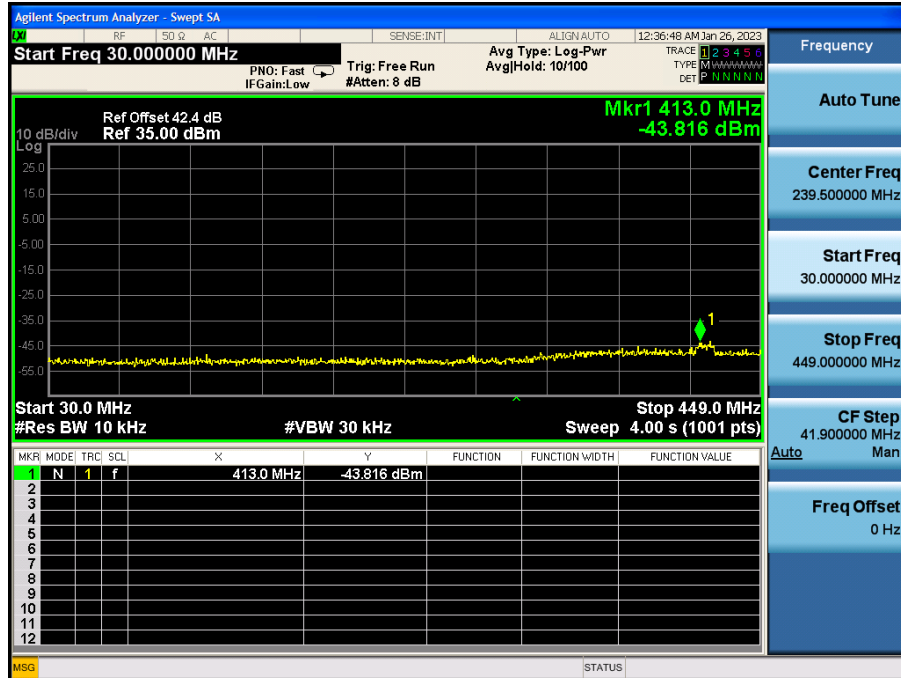


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### Noise outside the passband

#### DL



## 9 Frequency Stability

| Frequency stability vs voltage |             |              |             |         |                  |                 |         |
|--------------------------------|-------------|--------------|-------------|---------|------------------|-----------------|---------|
| Test path                      | Test Signal | Test Channel | Temperature | Voltage | Freq. error (Hz) | Tolerance (ppm) | Verdict |
| DL                             | FM          | MCH          | TN          | VL      | 2.4              | 0.00499         | PASS    |
|                                |             |              | TN          | VH      | 2.4              | 0.00499         | PASS    |
|                                | DMR         | MCH          | TN          | VL      | 3.8              | 0.00790         | PASS    |
|                                |             |              | TN          | VH      | 3.8              | 0.00790         | PASS    |
|                                | C4FM        | MCH          | TN          | VL      | 3.4              | 0.00707         | PASS    |
|                                |             |              | TN          | VH      | 3.4              | 0.00707         | PASS    |
|                                | H-DQPSK     | MCH          | TN          | VL      | 3.1              | 0.00644         | PASS    |
|                                |             |              | TN          | VH      | 3.2              | 0.00665         | PASS    |
|                                | TETRA       | MCH          | TN          | VL      | 2.6              | 0.00541         | PASS    |
|                                |             |              | TN          | VH      | 2.6              | 0.00541         | PASS    |



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| Frequency stability vs temperature |             |              |         |                  |                  |                 |         |
|------------------------------------|-------------|--------------|---------|------------------|------------------|-----------------|---------|
| Test Path                          | Test Signal | Test Channel | Voltage | Temperature (°C) | Freq. error (Hz) | Tolerance (ppm) | Verdict |
| DL                                 | FM          | MCH          | VN      | +50              | 3.0              | 0.00624         | PASS    |
|                                    |             |              | VN      | +40              | 2.5              | 0.00520         | PASS    |
|                                    |             |              | VN      | +30              | 2.3              | 0.00478         | PASS    |
|                                    |             |              | VN      | +20              | 4.1              | 0.00852         | PASS    |
|                                    |             |              | VN      | +10              | 2.4              | 0.00499         | PASS    |
|                                    |             |              | VN      | 0                | 2.2              | 0.00457         | PASS    |
|                                    |             |              | VN      | -10              | 2.9              | 0.00603         | PASS    |
|                                    |             |              | VN      | -20              | 1.9              | 0.00395         | PASS    |
|                                    |             |              | VN      | -30              | 3.3              | 0.00686         | PASS    |
|                                    | DMR         | MCH          | VN      | +50              | 2.2              | 0.00457         | PASS    |
|                                    |             |              | VN      | +40              | 2.7              | 0.00561         | PASS    |
|                                    |             |              | VN      | +30              | 1.2              | 0.00249         | PASS    |
|                                    |             |              | VN      | +20              | 3.9              | 0.00811         | PASS    |
|                                    |             |              | VN      | +10              | 3.4              | 0.00707         | PASS    |
|                                    |             |              | VN      | 0                | 3.5              | 0.00728         | PASS    |
|                                    |             |              | VN      | -10              | 3.3              | 0.00686         | PASS    |
|                                    |             |              | VN      | -20              | 3.7              | 0.00769         | PASS    |
|                                    |             |              | VN      | -30              | 2.3              | 0.00478         | PASS    |
|                                    | C4FM        | MCH          | VN      | +50              | 2.8              | 0.00582         | PASS    |
|                                    |             |              | VN      | +40              | 2.5              | 0.00520         | PASS    |
|                                    |             |              | VN      | +30              | 3.8              | 0.00790         | PASS    |
|                                    |             |              | VN      | +20              | 1.8              | 0.00374         | PASS    |
|                                    |             |              | VN      | +10              | 3.7              | 0.00769         | PASS    |
|                                    |             |              | VN      | 0                | 2.9              | 0.00603         | PASS    |
|                                    |             |              | VN      | -10              | 3.8              | 0.00790         | PASS    |
|                                    |             |              | VN      | -20              | 3.7              | 0.00769         | PASS    |
|                                    |             |              | VN      | -30              | 3.5              | 0.00728         | PASS    |



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| Frequency stability vs temperature |             |              |         |                  |                  |                 |         |
|------------------------------------|-------------|--------------|---------|------------------|------------------|-----------------|---------|
| Test Path                          | Test Signal | Test Channel | Voltage | Temperature (°C) | Freq. error (Hz) | Tolerance (ppm) | Verdict |
| DL                                 | D-HQPSK     | MCH          | VN      | +50              | 3.8              | 0.00790         | PASS    |
|                                    |             |              | VN      | +40              | 2.7              | 0.00561         | PASS    |
|                                    |             |              | VN      | +30              | 3.2              | 0.00665         | PASS    |
|                                    |             |              | VN      | +20              | 2.8              | 0.00582         | PASS    |
|                                    |             |              | VN      | +10              | 1.9              | 0.00395         | PASS    |
|                                    |             |              | VN      | 0                | 1.6              | 0.00333         | PASS    |
|                                    |             |              | VN      | -10              | 4.1              | 0.00852         | PASS    |
|                                    |             |              | VN      | -20              | 1.4              | 0.00291         | PASS    |
|                                    |             |              | VN      | -30              | 2.5              | 0.00520         | PASS    |
|                                    | TRTRA       | MCH          | VN      | +50              | 2.6              | 0.00541         | PASS    |
|                                    |             |              | VN      | +40              | 2.7              | 0.00561         | PASS    |
|                                    |             |              | VN      | +30              | 1.3              | 0.00270         | PASS    |
|                                    |             |              | VN      | +20              | 1.3              | 0.00270         | PASS    |
|                                    |             |              | VN      | +10              | 3.1              | 0.00644         | PASS    |
|                                    |             |              | VN      | 0                | 2.9              | 0.00603         | PASS    |
|                                    |             |              | VN      | -10              | 3.8              | 0.00790         | PASS    |
|                                    |             |              | VN      | -20              | 3.5              | 0.00728         | PASS    |
|                                    |             |              | VN      | -30              | 3.7              | 0.00769         | PASS    |



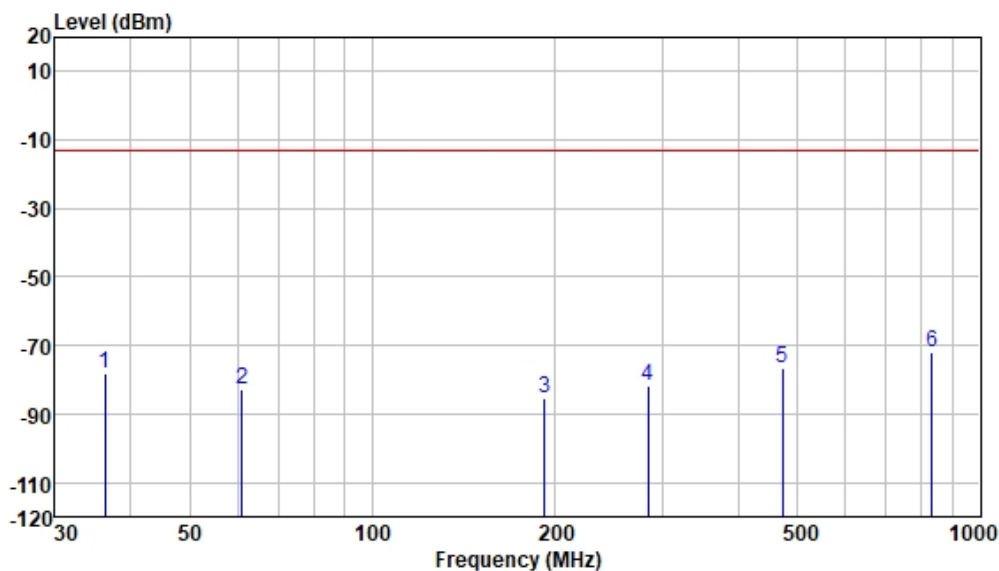
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### 10 Radiated Spurious emissions below 1GHz

#### Radiated Spurious emissions

DL\_CW\_MCH\_30MHz-1GHz\_Horizontal



|   | Freq   | Read Level | Correction Factor | Level  | Limit Line | Over Limit | Pol/Phase  |
|---|--------|------------|-------------------|--------|------------|------------|------------|
|   | MHz    | dBm        | dB                | dBm    | dBm        | dB         |            |
| 1 | 36.25  | -80.99     | 2.67              | -78.32 | -13.00     | -65.32     | HORIZONTAL |
| 2 | 60.92  | -80.29     | -2.75             | -83.04 | -13.00     | -70.04     | HORIZONTAL |
| 3 | 191.75 | -78.79     | -6.35             | -85.14 | -13.00     | -72.14     | HORIZONTAL |
| 4 | 283.98 | -79.37     | -2.52             | -81.89 | -13.00     | -68.89     | HORIZONTAL |
| 5 | 472.18 | -76.89     | 0.33              | -76.56 | -13.00     | -63.56     | HORIZONTAL |
| 6 | 833.32 | -78.86     | 7.14              | -71.72 | -13.00     | -58.72     | HORIZONTAL |

#### Remark:

The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.

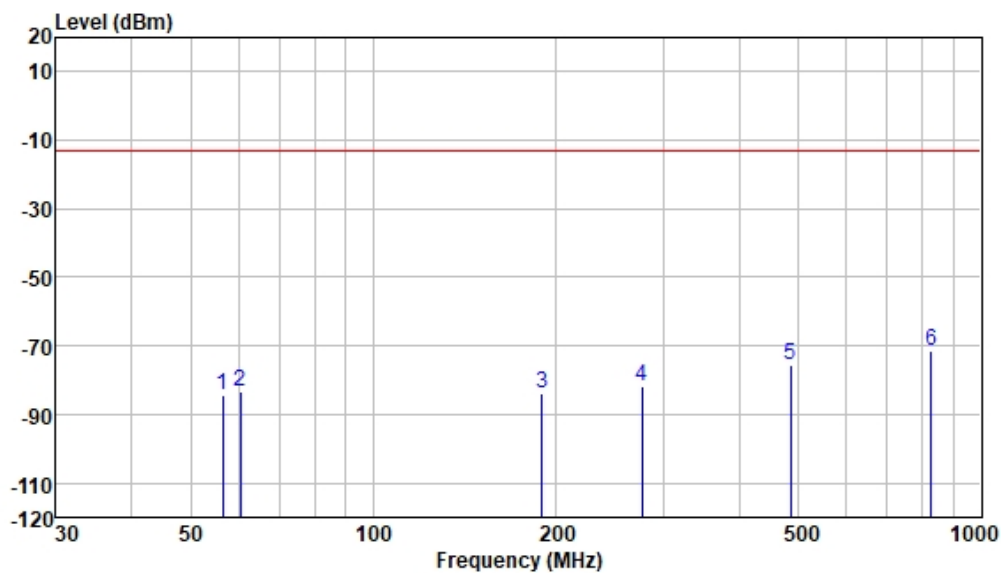


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### Radiated Spurious emissions

DL\_CW\_MCH\_30MHz-1GHz\_Vertical



|   | Freq   | Read Level | Correction Factor | Level  | Limit Line | Over Limit | Pol/Phase |
|---|--------|------------|-------------------|--------|------------|------------|-----------|
|   | MHz    | dBm        | dB                | dBm    | dBm        | dB         |           |
| 1 | 56.39  | -81.09     | -3.37             | -84.46 | -13.00     | -71.46     | VERTICAL  |
| 2 | 60.28  | -81.27     | -2.19             | -83.46 | -13.00     | -70.46     | VERTICAL  |
| 3 | 189.07 | -79.33     | -4.27             | -83.60 | -13.00     | -70.60     | VERTICAL  |
| 4 | 276.12 | -79.00     | -2.94             | -81.94 | -13.00     | -68.94     | VERTICAL  |
| 5 | 485.61 | -77.44     | 1.96              | -75.48 | -13.00     | -62.48     | VERTICAL  |
| 6 | 827.49 | -79.22     | 7.66              | -71.56 | -13.00     | -58.56     | VERTICAL  |

#### Remark:

The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.



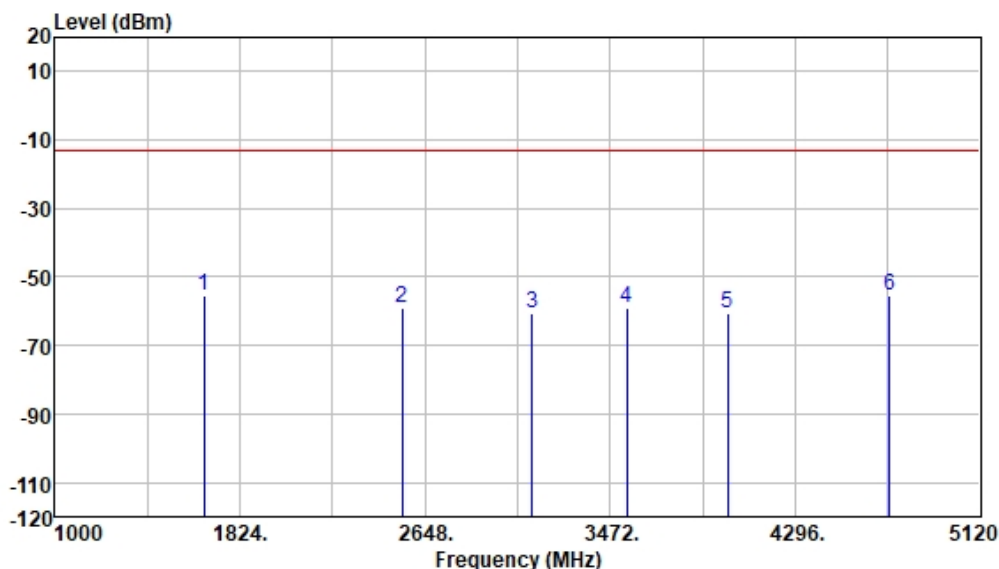
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### 11 Radiated Spurious emissions above 1GHz

#### Radiated Spurious emissions

DL\_CW\_MCH\_above 1GHz\_Horizontal



|   | Freq    | Read Level | Correction Factor | Level  | Limit Line | Over Limit | Pol/Phase  |
|---|---------|------------|-------------------|--------|------------|------------|------------|
|   | MHz     | dBm        | dB                | dBm    | dBm        | dB         |            |
| 1 | 1663.32 | -61.52     | 5.97              | -55.55 | -13.00     | -42.55     | HORIZONTAL |
| 2 | 2545.00 | -65.54     | 6.59              | -58.95 | -13.00     | -45.95     | HORIZONTAL |
| 3 | 3125.92 | -62.89     | 2.31              | -60.58 | -13.00     | -47.58     | HORIZONTAL |
| 4 | 3546.16 | -63.10     | 3.95              | -59.15 | -13.00     | -46.15     | HORIZONTAL |
| 5 | 3995.24 | -63.15     | 2.69              | -60.46 | -13.00     | -47.46     | HORIZONTAL |
| 6 | 4716.24 | -63.10     | 7.89              | -55.21 | -13.00     | -42.21     | HORIZONTAL |

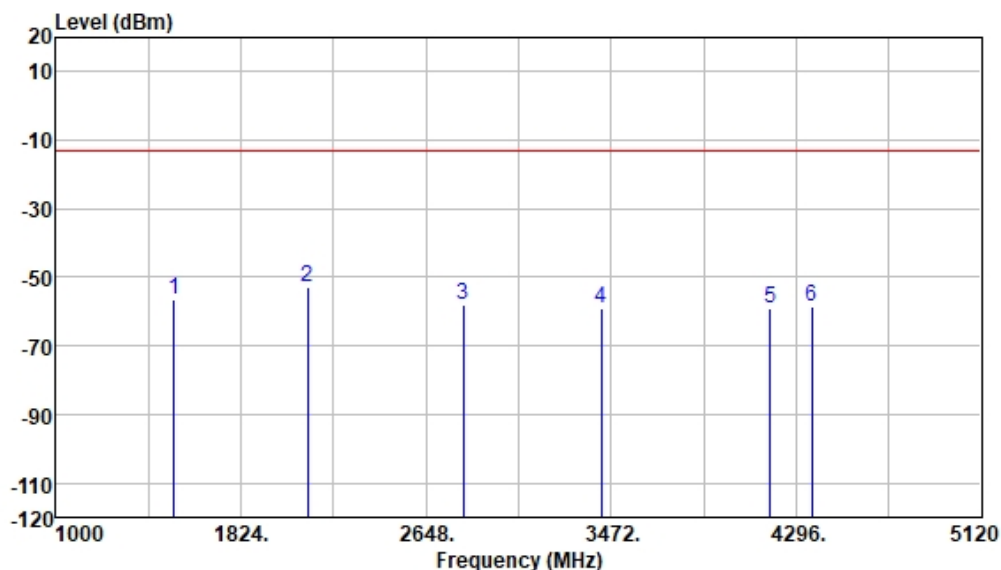


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### Radiated Spurious emissions

DL\_CW\_MCH\_above 1GHz\_Vertical



|   | Freq    | Read Level | Correction Factor | Level  | Limit Line | Over Limit | Pol/Phase |
|---|---------|------------|-------------------|--------|------------|------------|-----------|
|   | MHz     | dBm        | dB                | dBm    | dBm        | dB         |           |
| 1 | 1527.36 | -62.68     | 6.45              | -56.23 | -13.00     | -43.23     | VERTICAL  |
| 2 | 2120.64 | -61.95     | 9.15              | -52.80 | -13.00     | -39.80     | VERTICAL  |
| 3 | 2812.80 | -62.36     | 4.17              | -58.19 | -13.00     | -45.19     | VERTICAL  |
| 4 | 3426.68 | -62.50     | 3.31              | -59.19 | -13.00     | -46.19     | VERTICAL  |
| 5 | 4180.64 | -63.05     | 4.13              | -58.92 | -13.00     | -45.92     | VERTICAL  |
| 6 | 4366.04 | -63.36     | 4.75              | -58.61 | -13.00     | -45.61     | VERTICAL  |

--End of Appendix--



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