NR band 77/78_Low Band

50 ㎒ Low Channel - Full RB - DFT-S-OFDM

50 ㎒ Low Channel - Full RB - CP-OFDM

50 ㎒ Middle Channel - Full RB - DFT-S-OFDM

50 ㎒ Middle Channel - Full RB - CP-OFDM

50 ㎒ High Channel - Full RB - DFT-S-OFDM

50 ㎒ High Channel - Full RB - CP-OFDM

NR band 77/78_Low Band

60 ㎒ Low Channel - Full RB - DFT-S-OFDM

60 ㎒ Low Channel - Full RB - CP-OFDM

60 ㎒ Middle Channel - Full RB - DFT-S-OFDM

60 ㎒ Middle Channel - Full RB - CP-OFDM

60 ㎒ High Channel - Full RB - DFT-S-OFDM

60 ㎒ High Channel - Full RB - CP-OFDM

NR band 77/78_Low Band

70 ㎒ Low Channel - Full RB - DFT-S-OFDM

70 ㎒ Low Channel - Full RB - CP-OFDM

70 ㎒ Middle Channel - Full RB - DFT-S-OFDM

70 ㎒ Middle Channel - Full RB - CP-OFDM

70 ㎒ High Channel - Full RB - DFT-S-OFDM

70 ㎒ High Channel - Full RB - CP-OFDM

NR band 77/78_Low Band

80 ㎒ Low Channel - Full RB - DFT-S-OFDM

80 ㎒ Low Channel - Full RB - CP-OFDM

80 ㎒ Middle Channel - Full RB - DFT-S-OFDM

80 ㎒ Middle Channel - Full RB - CP-OFDM

80 ㎒ High Channel - Full RB - DFT-S-OFDM

80 ㎒ High Channel - Full RB - CP-OFDM

NR band 77/78_Low Band

90 ㎒ Low Channel - Full RB - DFT-S-OFDM

90 ㎒ Low Channel - Full RB - CP-OFDM

90 ㎒ Middle Channel - Full RB - DFT-S-OFDM

90 ㎒ Middle Channel - Full RB - CP-OFDM

90 ㎒ High Channel - Full RB - DFT-S-OFDM

90 ㎒ High Channel - Full RB - CP-OFDM

NR band 77/78_Low Band

	
100 ㎒ Middle Channel - Full RB - DFT-S-OFDM	100 ㎒ Middle Channel - Full RB - CP-OFDM

NR band 77/78_High Band

20 ㎒ Low Channel - Full RB - DFT-S-OFDM

20 ㎒ Low Channel - Full RB - CP-OFDM

20 ㎒ Middle Channel - Full RB - DFT-S-OFDM

20 ㎒ Middle Channel - Full RB - CP-OFDM

20 ㎒ High Channel - Full RB - DFT-S-OFDM

20 ㎒ High Channel - Full RB - CP-OFDM

NR band 77/78_High Band

30 ㎒ Low Channel - Full RB - DFT-S-OFDM

30 ㎒ Low Channel - Full RB - CP-OFDM

30 ㎒ Middle Channel - Full RB - DFT-S-OFDM

30 ㎒ Middle Channel - Full RB - CP-OFDM

30 ㎒ High Channel - Full RB - DFT-S-OFDM

30 ㎒ High Channel - Full RB - CP-OFDM

NR band 77/78_High Band

40 ㎒ Low Channel - Full RB - DFT-S-OFDM

40 ㎒ Low Channel - Full RB - CP-OFDM

40 ㎒ Middle Channel - Full RB - DFT-S-OFDM

40 ㎒ Middle Channel - Full RB - CP-OFDM

40 ㎒ High Channel - Full RB - DFT-S-OFDM

40 ㎒ High Channel - Full RB - CP-OFDM

NR band 77/78_High Band

50 ㎒ Low Channel - Full RB - DFT-S-OFDM

50 ㎒ Low Channel - Full RB - CP-OFDM

50 ㎒ Middle Channel - Full RB - DFT-S-OFDM

50 ㎒ Middle Channel - Full RB - CP-OFDM

50 ㎒ High Channel - Full RB - DFT-S-OFDM

50 ㎒ High Channel - Full RB - CP-OFDM

NR band 77/78_High Band

60 ㎒ Low Channel - Full RB - DFT-S-OFDM

60 ㎒ Low Channel - Full RB - CP-OFDM

60 ㎒ Middle Channel - Full RB - DFT-S-OFDM

60 ㎒ Middle Channel - Full RB - CP-OFDM

60 ㎒ High Channel - Full RB - DFT-S-OFDM

60 ㎒ High Channel - Full RB - CP-OFDM

NR band 77/78_High Band

70 ㎒ Low Channel - Full RB - DFT-S-OFDM

70 ㎒ Low Channel - Full RB - CP-OFDM

70 ㎒ Middle Channel - Full RB - DFT-S-OFDM

70 ㎒ Middle Channel - Full RB - CP-OFDM

70 ㎒ High Channel - Full RB - DFT-S-OFDM

70 ㎒ High Channel - Full RB - CP-OFDM

NR band 77/78_High Band

80 ㎒ Low Channel - Full RB - DFT-S-OFDM

80 ㎒ Low Channel - Full RB - CP-OFDM

80 ㎒ Middle Channel - Full RB - DFT-S-OFDM

80 ㎒ Middle Channel - Full RB - CP-OFDM

80 ㎒ High Channel - Full RB - DFT-S-OFDM

80 ㎒ High Channel - Full RB - CP-OFDM

NR band 77/78_High Band

90 ㎒ Low Channel - Full RB - DFT-S-OFDM

90 ㎒ Low Channel - Full RB - CP-OFDM

90 ㎒ Middle Channel - Full RB - DFT-S-OFDM

90 ㎒ Middle Channel - Full RB - CP-OFDM

90 ㎒ High Channel - Full RB - DFT-S-OFDM

90 ㎒ High Channel - Full RB - CP-OFDM

NR band 77/78_High Band

<table>
<tr><td> 
</td><td> 
</td></tr>
<tr><td>100 ㎒ Low Channel - Full RB - DFT-S-OFDM</td><td>100 ㎒ Low Channel - Full RB - CP-OFDM</td></tr>
<tr><td> 
</td><td> 
</td></tr>
<tr><td>100 ㎒ Middle Channel - Full RB - DFT-S-OFDM</td><td>100 ㎒ Middle Channel - Full RB - CP-OFDM</td></tr>
<tr><td> 
</td><td> 
</td></tr>
<tr><td>100 ㎒ High Channel - Full RB - DFT-S-OFDM</td><td>100 ㎒ High Channel - Full RB - CP-OFDM</td></tr>
</table>

6. Spurious Emissions at Antenna Terminal

6.1. Limit

- §27.53(l)(2), for mobile operations in the 3 700-3 980 ㎒ band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 ㏈m/㎒. Compliance with this paragraph (l)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 ㎑. In the bands between 1 and 5 ㎒ removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 ㎑. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 ㏈ below the transmitter power.

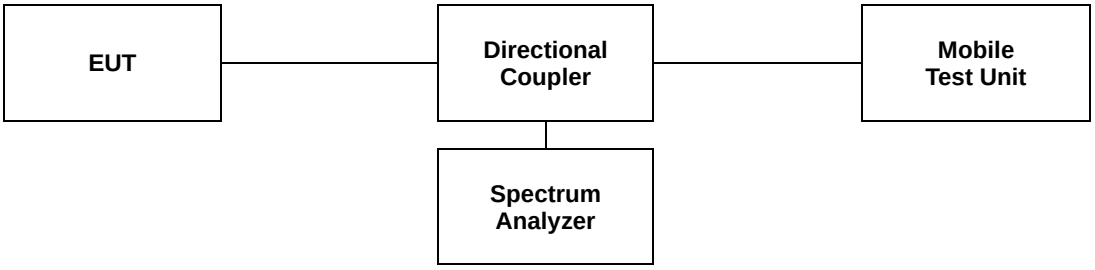
- §27.53(m)(4), for mobile digital stations, the attenuation factor shall be not less than 40 + 10 $\log_{10}$ (P) ㏈ on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 $\log_{10}$ (P) ㏈ on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 $\log_{10}$ (P) ㏈ on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 $\log_{10}$ (P) ㏈ on all frequencies between 2 490.5 ㎒ and 2 496 ㎒ and 55 + 10 $\log_{10}$ (P) ㏈ at or below 2 490.5 ㎒. Mobile Satellite Service licensees operating on frequencies below 2 495 ㎒ may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

- §27.53(n)(2), for mobile operations in the 3 450-3 550 ㎒ band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 ㏈m/㎒. Compliance with this paragraph (n)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 ㎑. In the bands between 1 and 5 ㎒ removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 ㎑. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 ㏈ below the transmitter power.

6.2. Test Procedure

The test follows section 5.7 of ANSI C63.26-2015.

1. Start frequency was set to 9 ㎑ and stop frequency was set to at least 10* the fundamental frequency.
2. Detector = RMS.
3. Trace mode = Max hold.
4. Sweep time = Auto couple.
5. The trace was allowed to stabilize.
6. Please see notes below for RBW and VBW settings.
7. For plots showing conducted spurious emissions from 9 ㎑ to 40 ㎓, all path loss of wide frequency range was investigated and compensated to spectrum analyzer as TDF function.



Note;

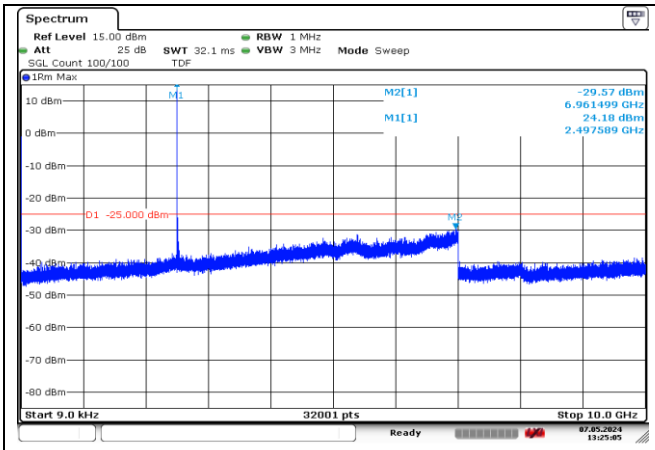
Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 ㎑ or greater for frequencies less than 1 ㎓ and frequencies greater than 1 ㎓. However, in the 1 ㎒ bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two point, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 ㏈ below the transmitter power.

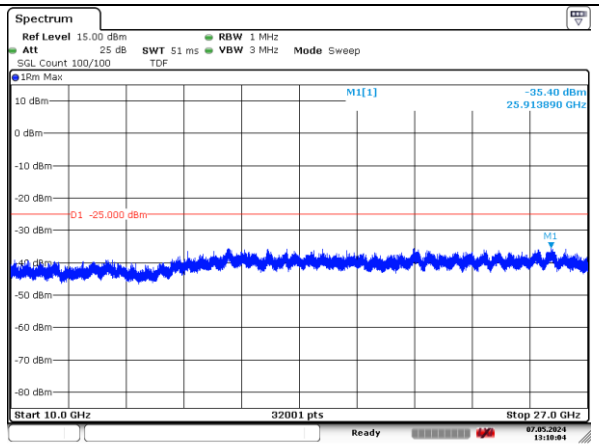
6.3. Test Results

Ambient temperature : (23 ± 1) ℃
Relative humidity : 47 % R.H.

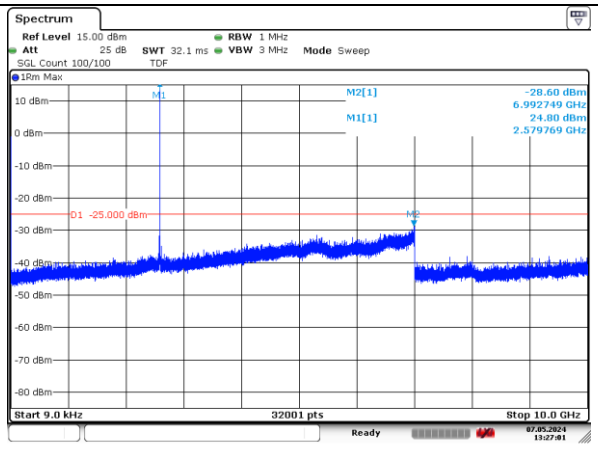
- Test plots

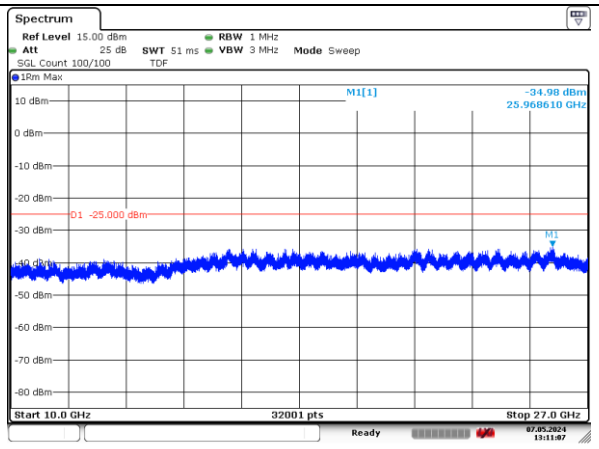
NR band 41



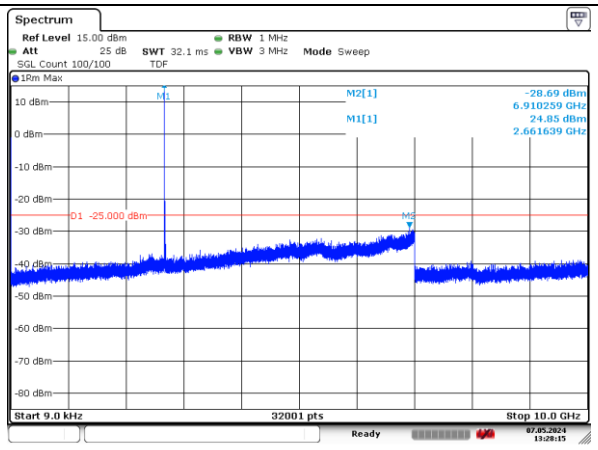


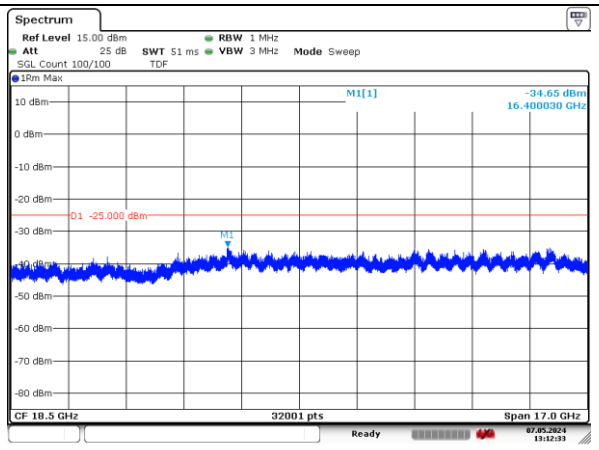
DFT-S-OFDM BPSK - 30 ㎒ Low Channel - 1 RB





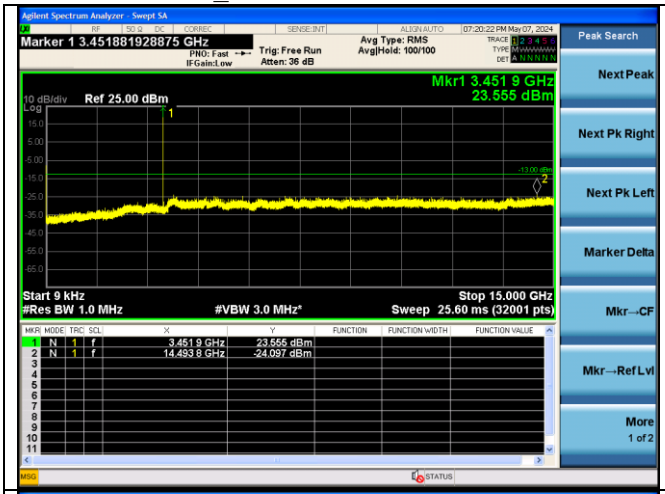
DFT-S-OFDM BPSK - 30 ㎒ Middle Channel - 1 RB

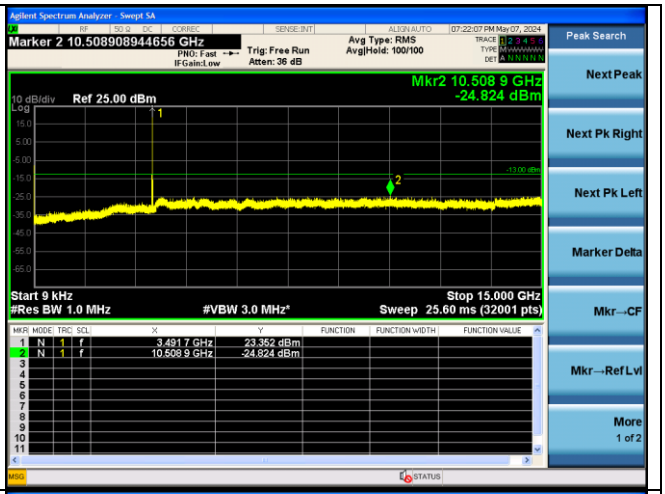


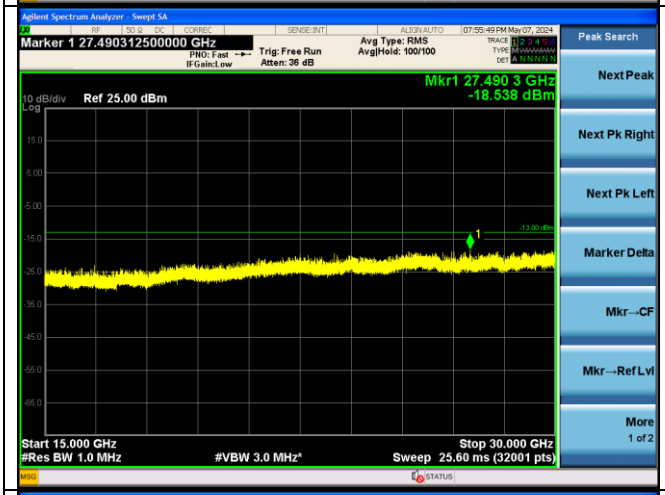


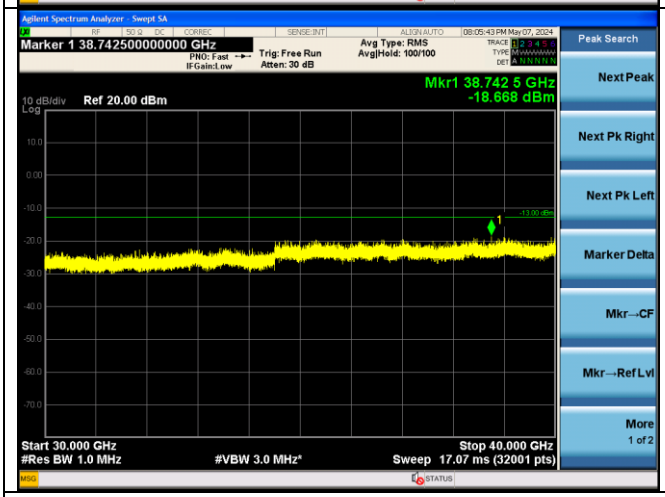
DFT-S-OFDM BPSK - 30 ㎒ High Channel - 1 RB

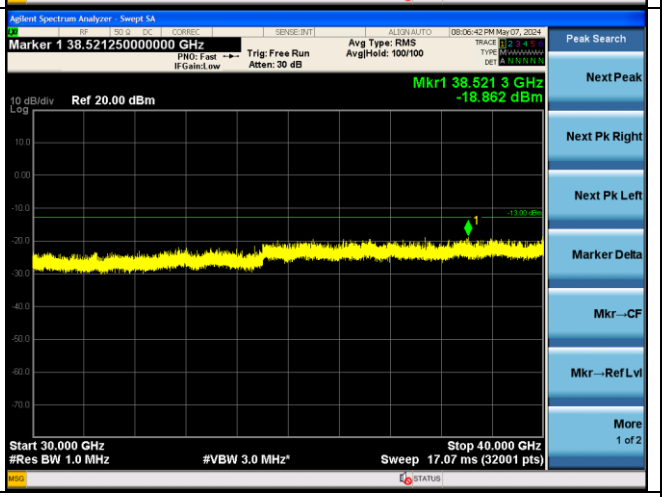
NR band 77/78_Low Band











DFT-S-OFDM BPSK - 20 ㎒ Low Channel - 1 RB	DFT-S-OFDM BPSK - 20 ㎒ Middle Channel - 1 RB