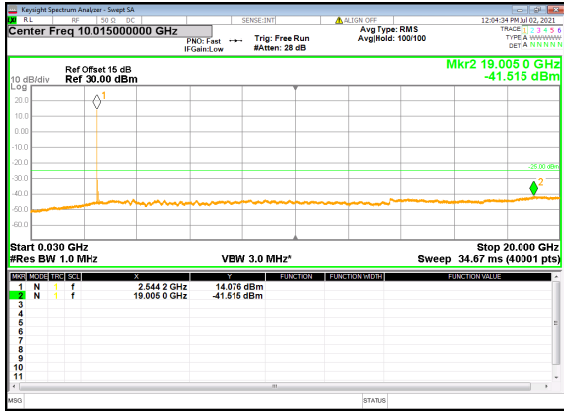
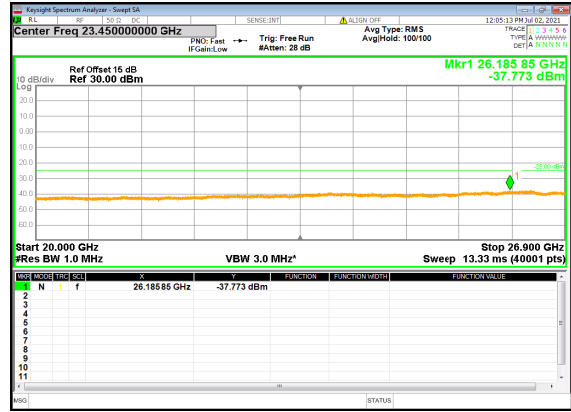




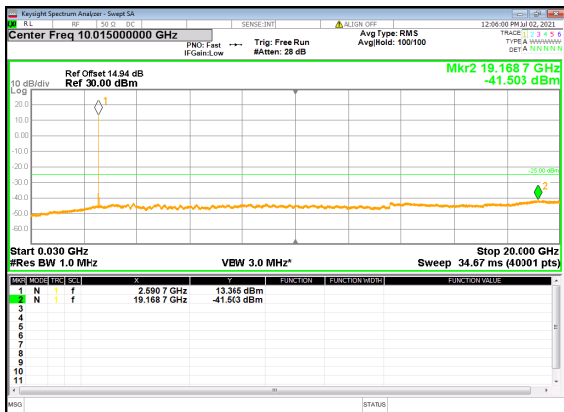
B26\_N41(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1  
1RB\_Left\_Mid\_CH



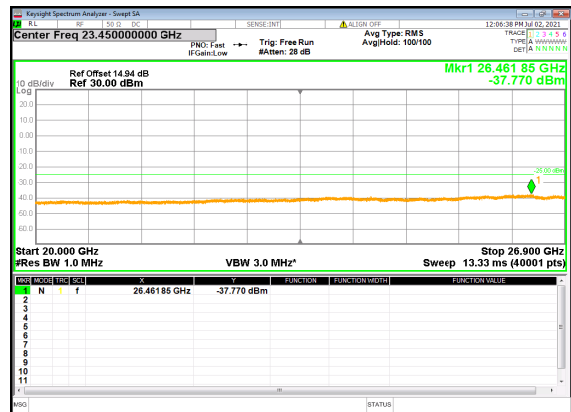
B26\_N41(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1  
1RB\_Left\_Mid\_CH



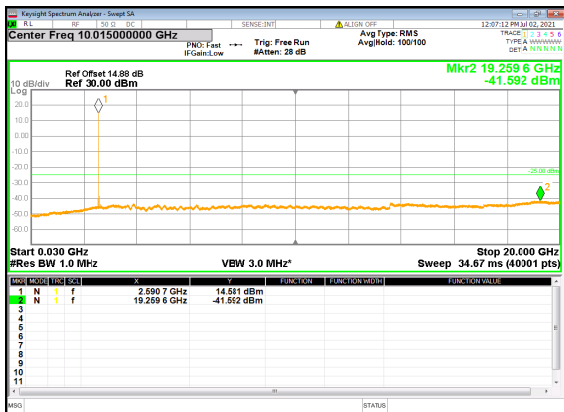
B26\_N41(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1  
RB\_Left\_High\_CH



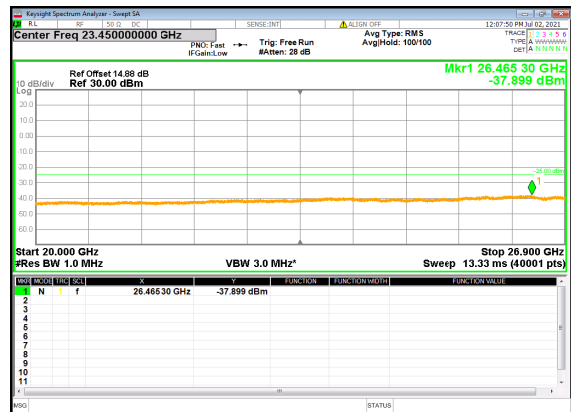
B26\_N41(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1  
RB\_Left\_High\_CH



B26\_N41(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1  
1RB\_Left\_High\_CH



B26\_N41(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1  
1RB\_Left\_High\_CH





## 2.5. Band Edge

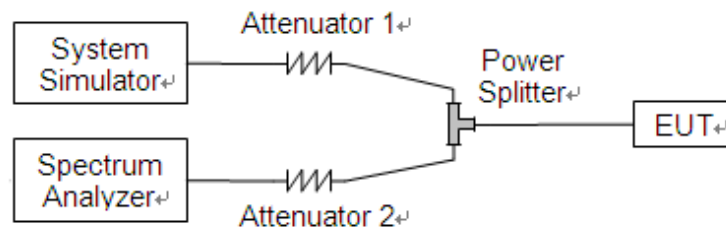
### 2.5.1. Requirement

According to FCC section 2.1051, section 27.53(h), section 27.53(g), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

N41

According to FCC section 27.53(m) (4), for mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log(P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log(P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log(P)$  dB 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 than  $43 + 10 \log(P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log(P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz 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.

### 2.5.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

### 2.5.3. Test procedure

KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.



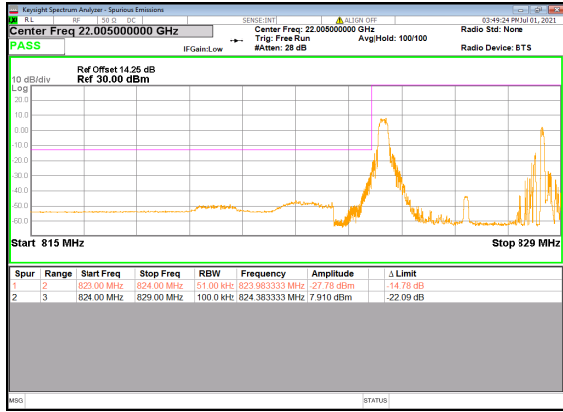
REPORT No.: SZ21040341W11

#### 2.5.4. Test Result

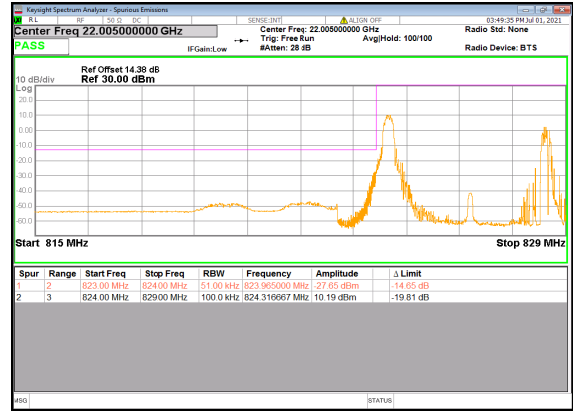
The center frequency of spectrum is the band edge frequency and span is 2MHz, Record the max trace into the test report.



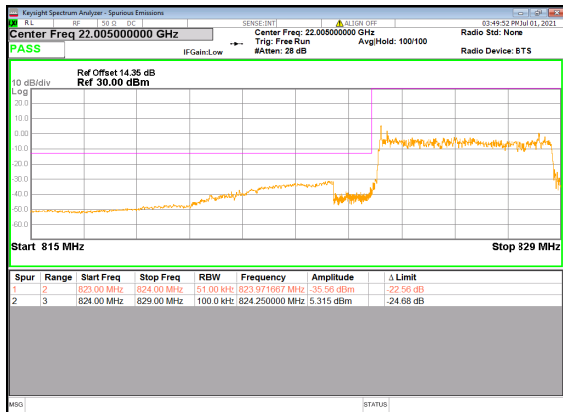
B7\_N5(5M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_L  
eft\_Low\_CH



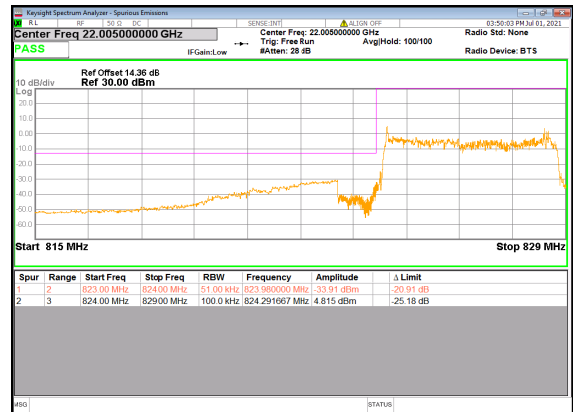
B7\_N5(5M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB  
\_Left\_Low\_CH



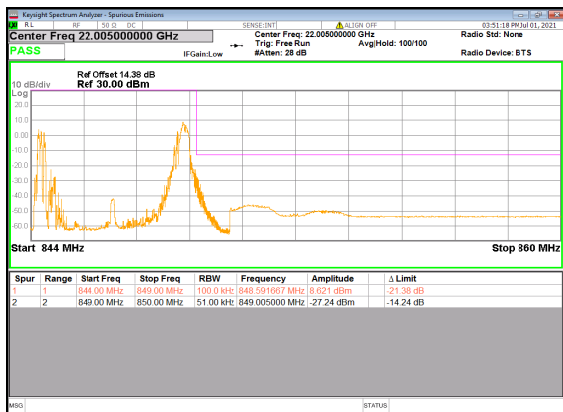
B7\_N5(5M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_L  
ow\_CH



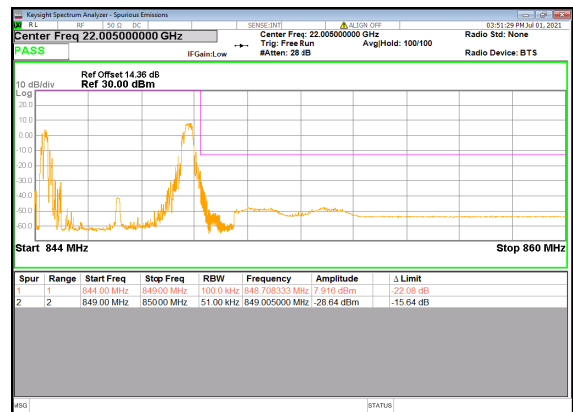
B7\_N5(5M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_L  
ow\_CH



B7\_N5(5M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_  
Right\_High\_CH

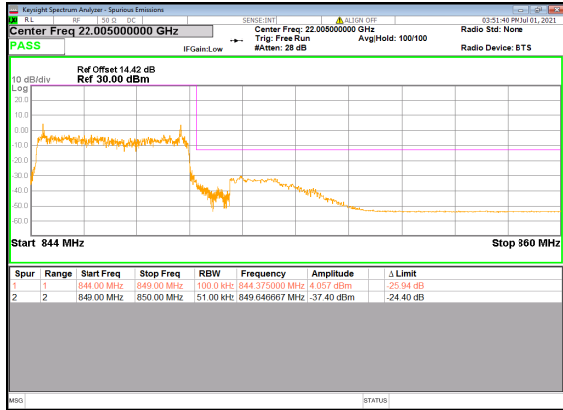


B7\_N5(5M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB  
\_Right\_High\_CH

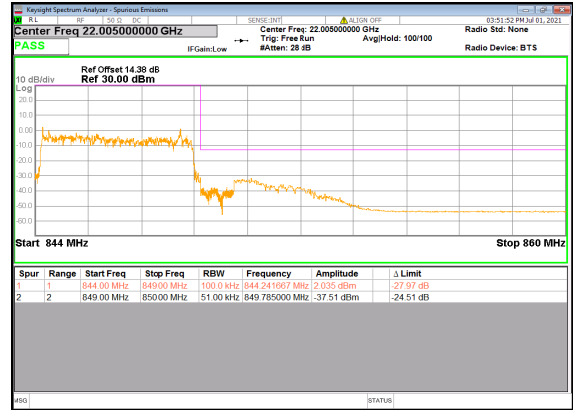




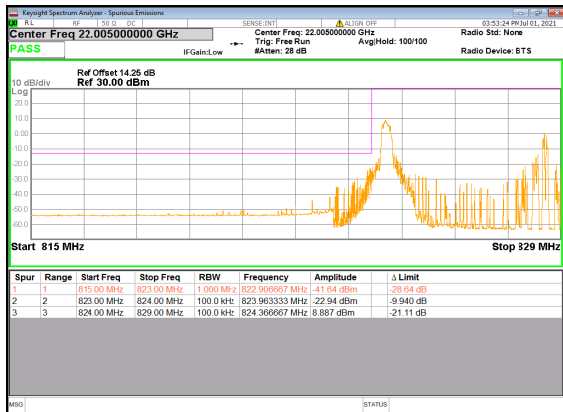
B7\_N5(5M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_H  
igh\_CH



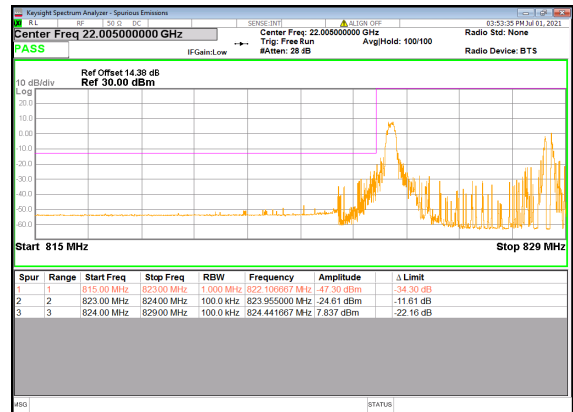
B7\_N5(5M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_H  
High\_CH



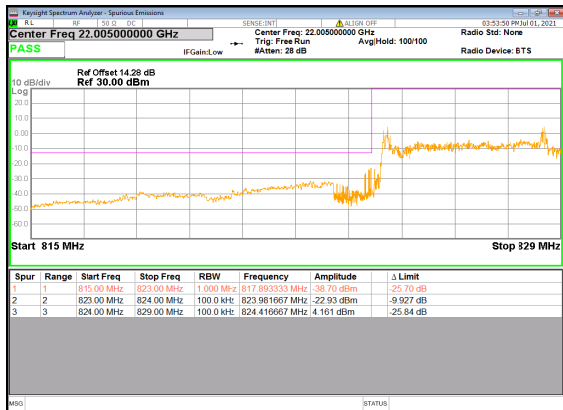
B7\_N5(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_  
Left\_Low\_CH



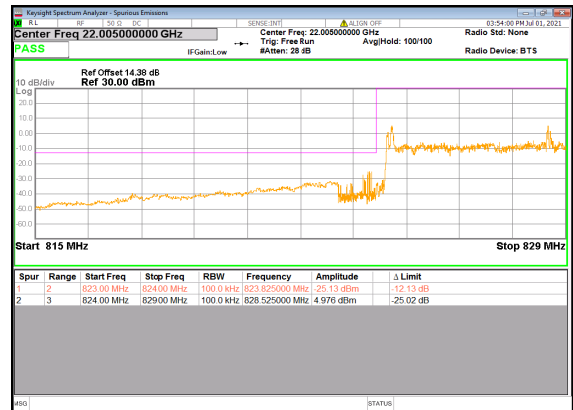
B7\_N5(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1R  
B\_Left\_Low\_CH



B7\_N5(10M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_  
Low\_CH

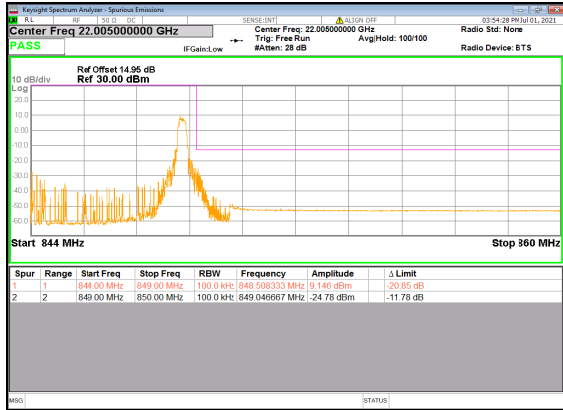


B7\_N5(10M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_  
\_Low\_CH

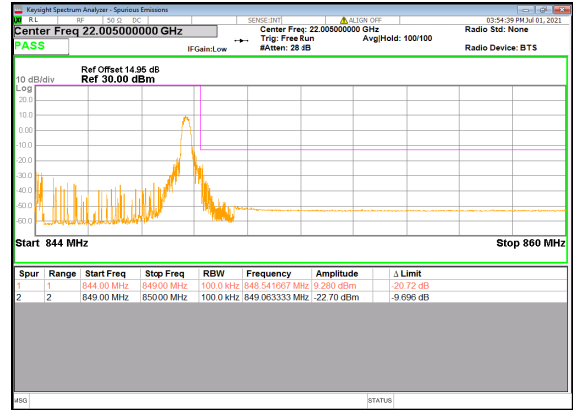




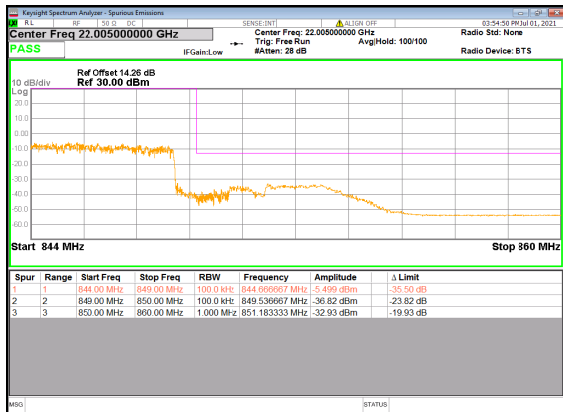
B7\_N5(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_  
Right\_High\_CH



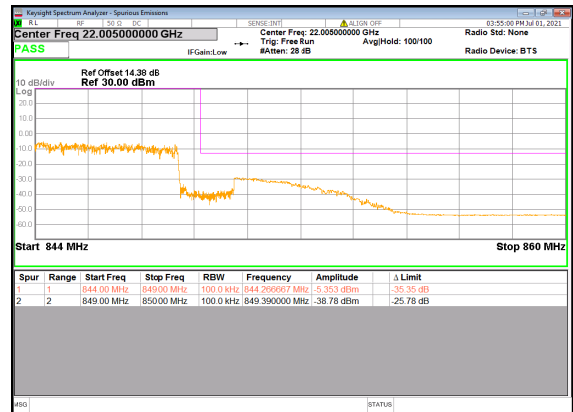
B7\_N5(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1R  
B\_Right\_High\_CH



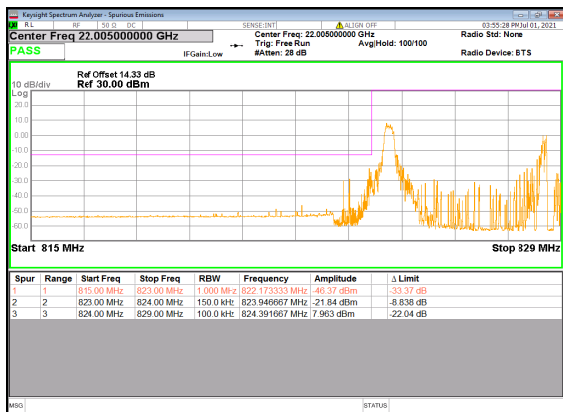
B7\_N5(10M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_  
High\_CH



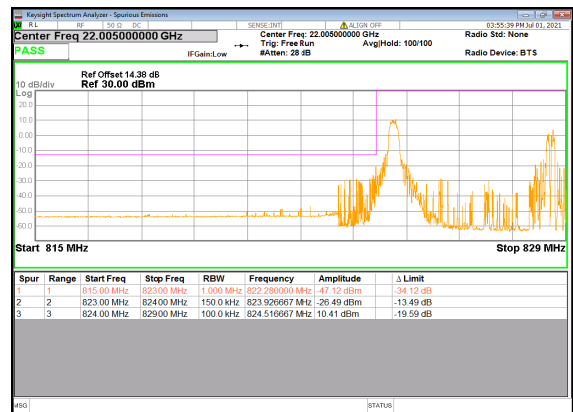
B7\_N5(10M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_  
\_High\_CH



B7\_N5(15M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_  
Left\_Low\_CH

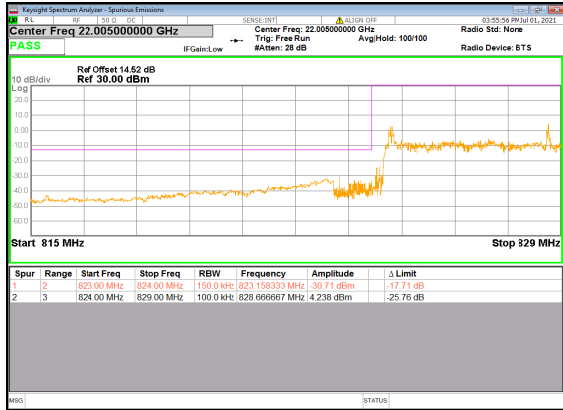


B7\_N5(15M)\_DFT-s-OFDM\_QPSK\_Edge\_1R  
B\_Left\_Low\_CH

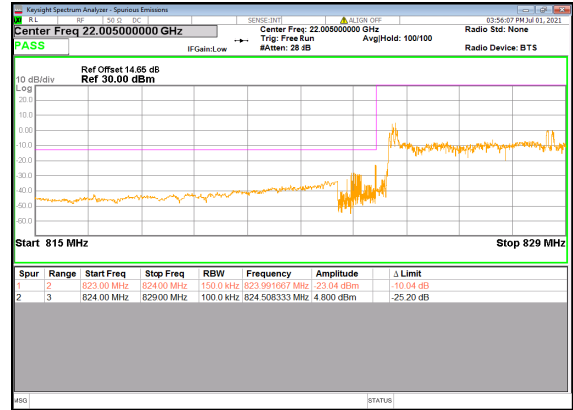




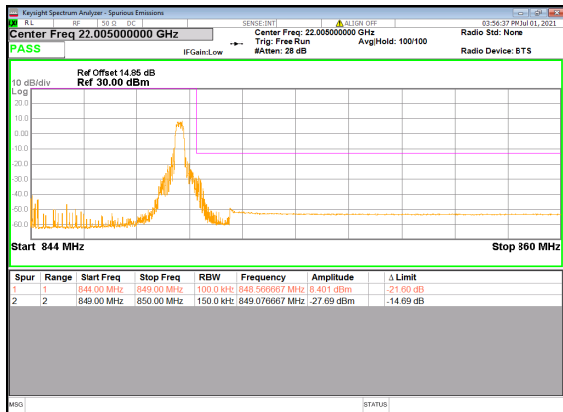
B7\_N5(15M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_Low\_CH



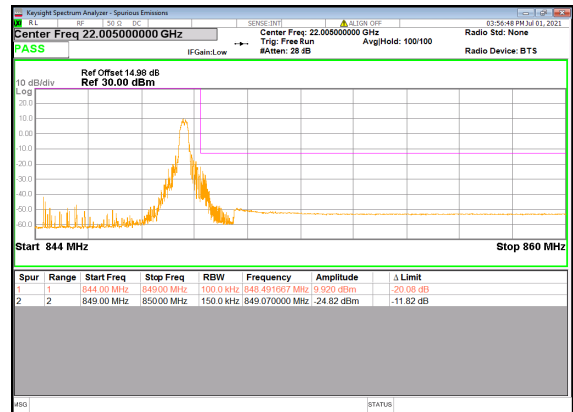
B7\_N5(15M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Low\_CH



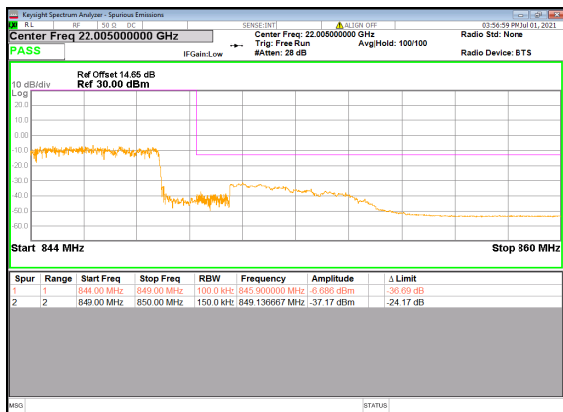
B7\_N5(15M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



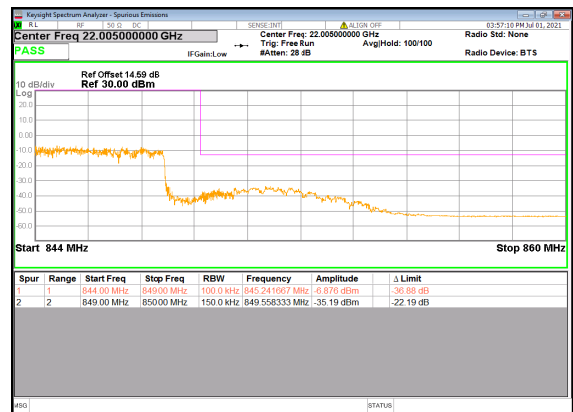
B7\_N5(15M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_B\_Right\_High\_CH



B7\_N5(15M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_High\_CH



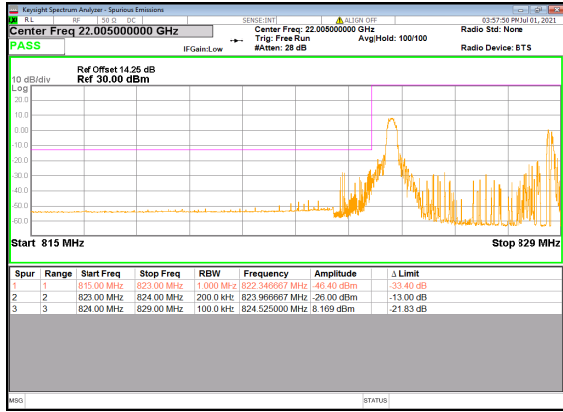
B7\_N5(15M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_High\_CH



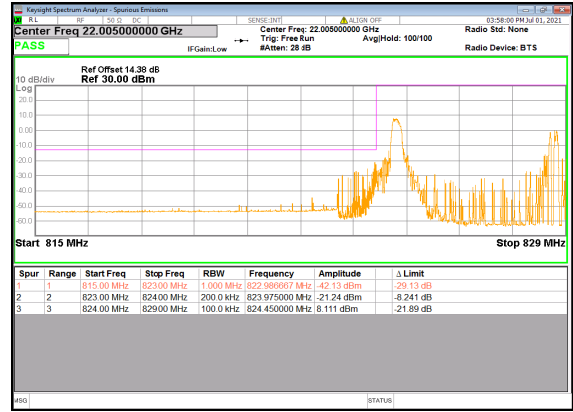




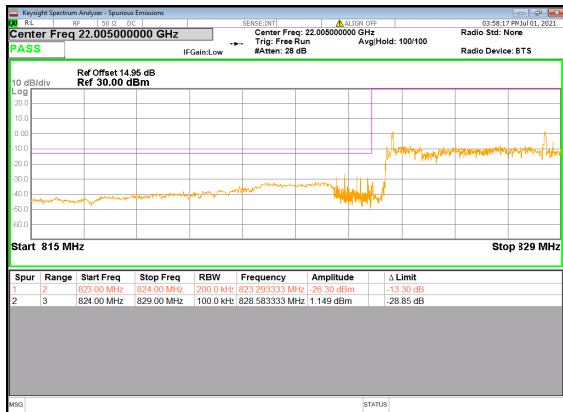
B7\_N5(20M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_  
Left\_Low\_CH



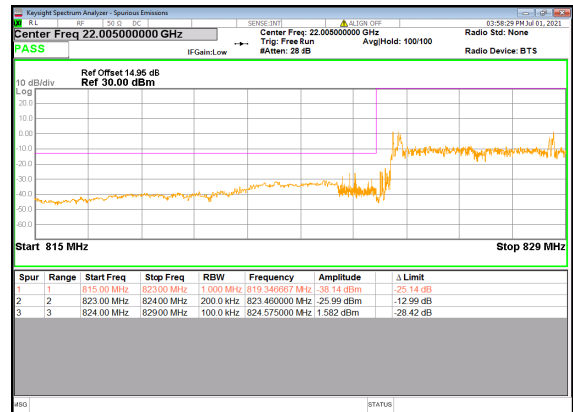
B7\_N5(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1R  
B\_Left\_Low\_CH



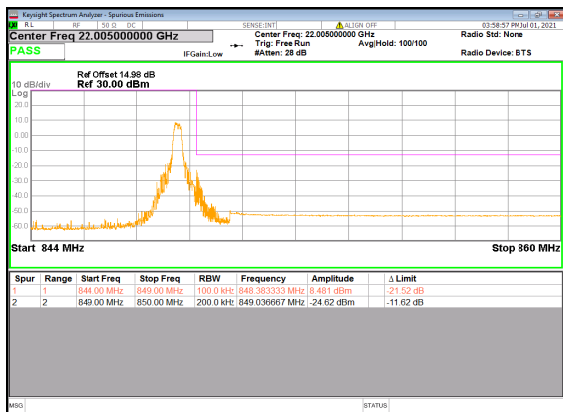
B7\_N5(20M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_  
Low\_CH



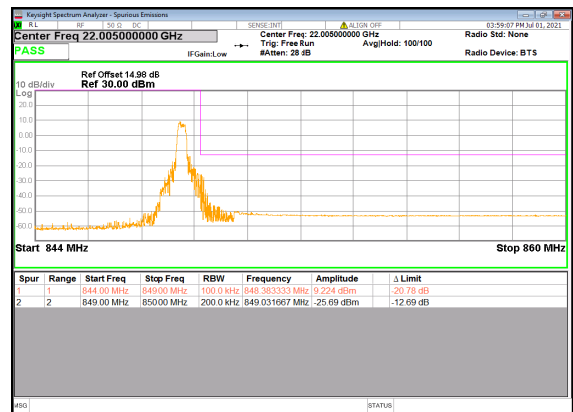
B7\_N5(20M)\_DFT-s-OFDM\_QPSK\_Outer\_Full  
\_Low\_CH



B7\_N5(20M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_  
Right\_High\_CH

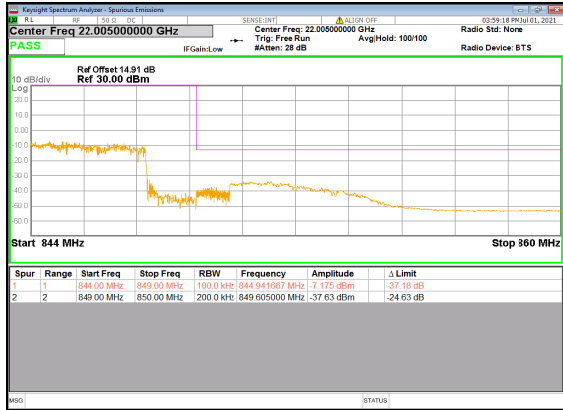


B7\_N5(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1R  
B\_Right\_High\_CH

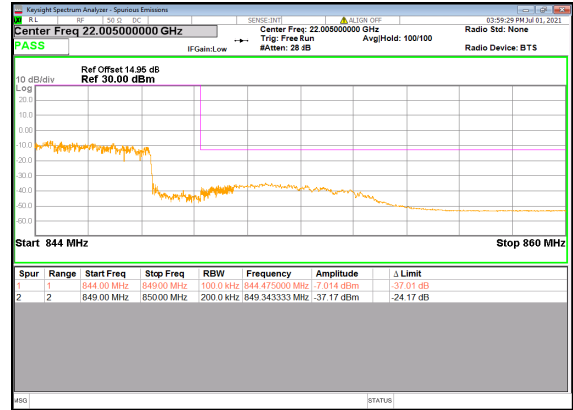




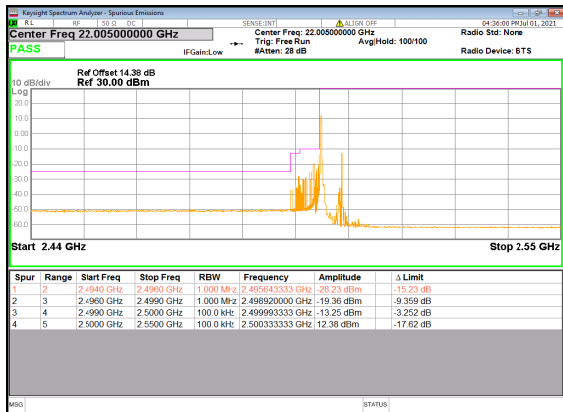
B7\_N5(20M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_High\_CH



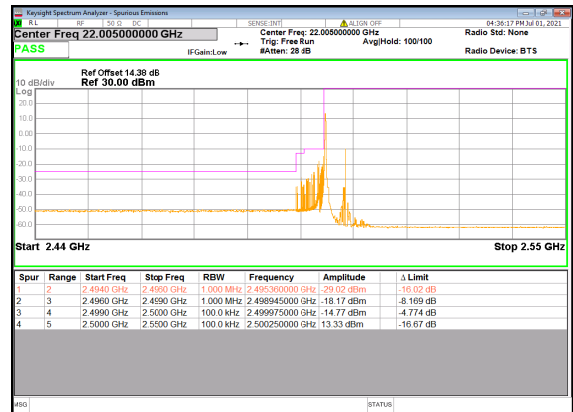
B7\_N5(20M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_High\_CH



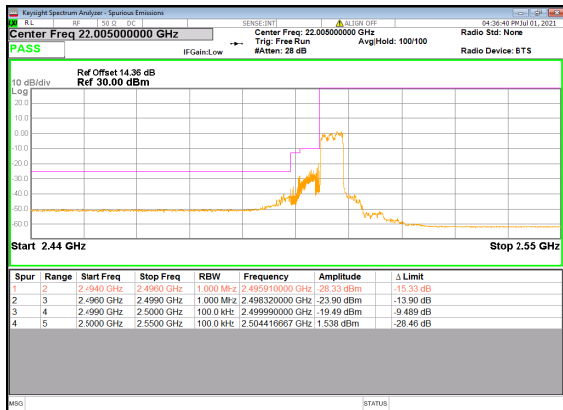
B2\_N7(5M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



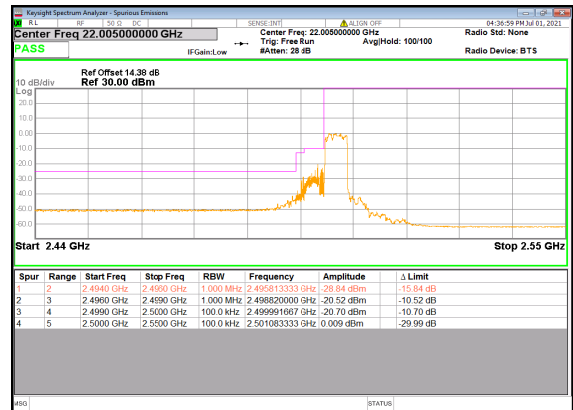
B2\_N7(5M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



B2\_N7(5M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_Left\_Low\_CH

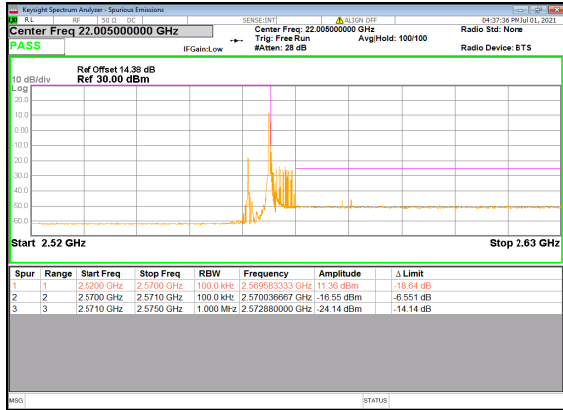


B2\_N7(5M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Left\_Low\_CH

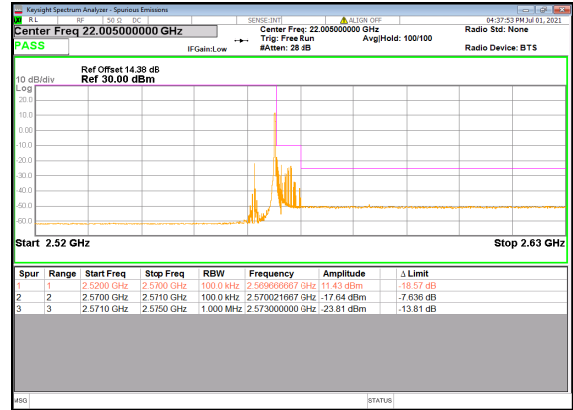




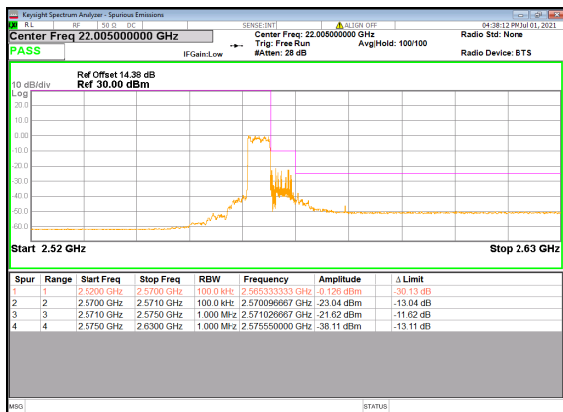
B2\_N7(5M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_  
Right\_High\_CH



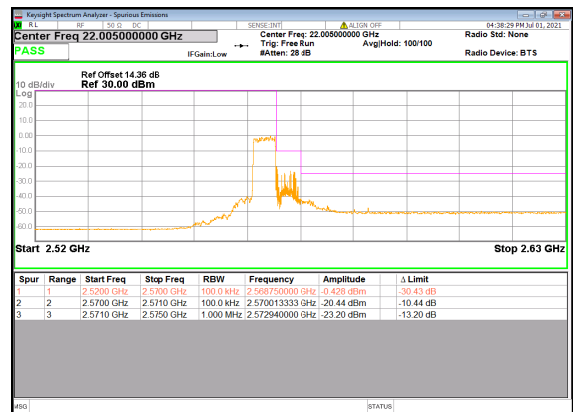
B2\_N7(5M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_  
\_Right\_High\_CH



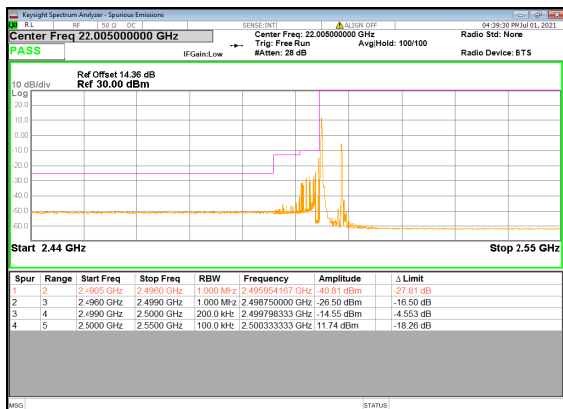
B2\_N7(5M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_H  
igh\_CH



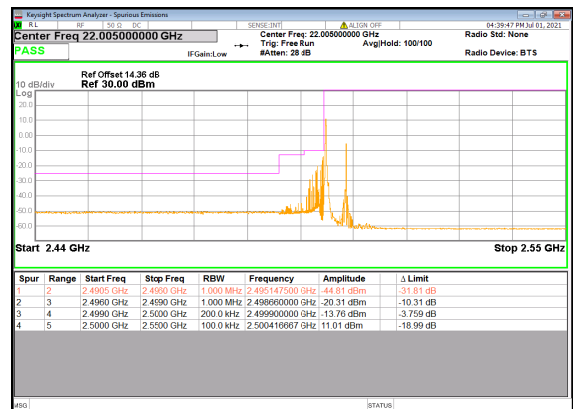
B2\_N7(5M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_H  
High\_CH



B2\_N7(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_  
Left\_Low\_CH

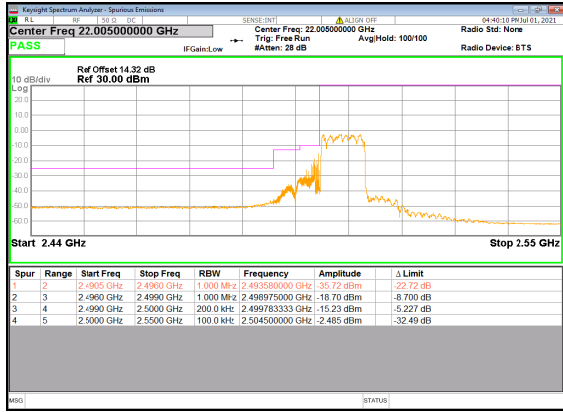


B2\_N7(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1R  
B\_Left\_Low\_CH

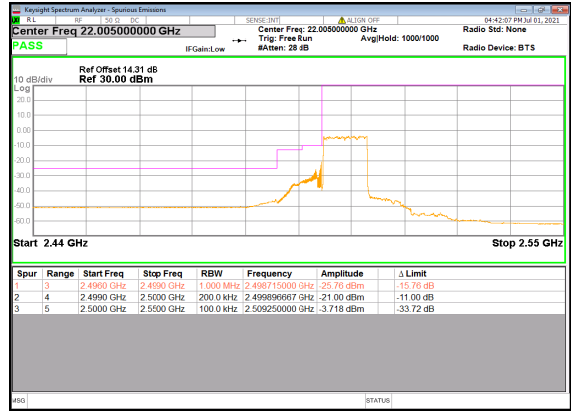




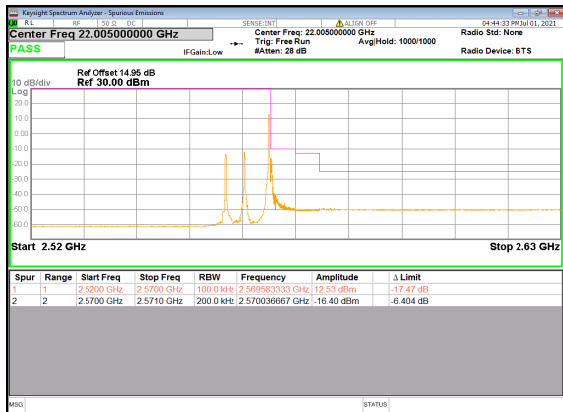
B2\_N7(10M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_Low\_CH



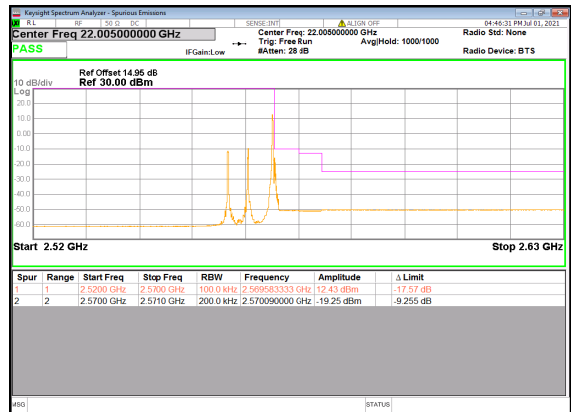
B2\_N7(10M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Low\_CH



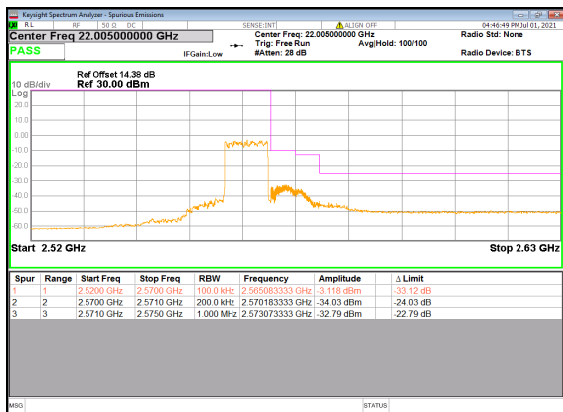
B2\_N7(10M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



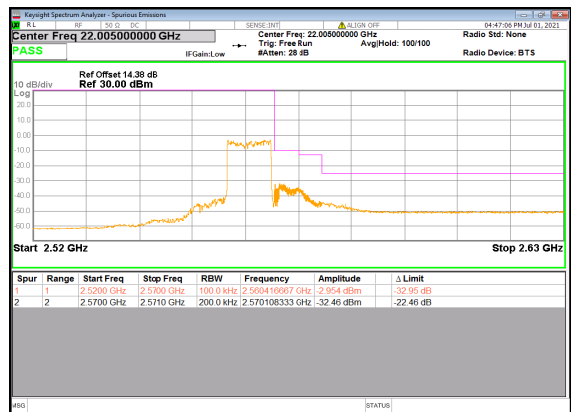
B2\_N7(10M)\_DFT-s-OFDM\_QPSK\_Edge\_1R B\_Right\_High\_CH



B2\_N7(10M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_High\_CH

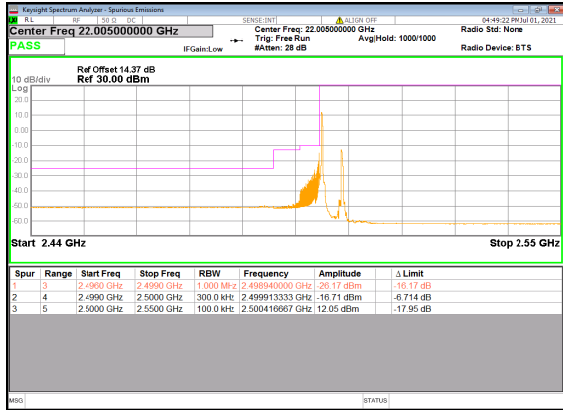


B2\_N7(10M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_High\_CH

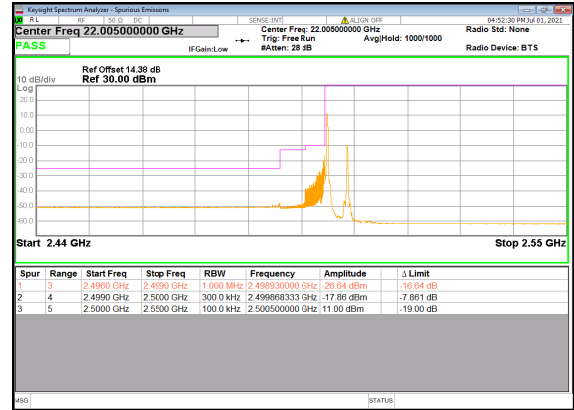




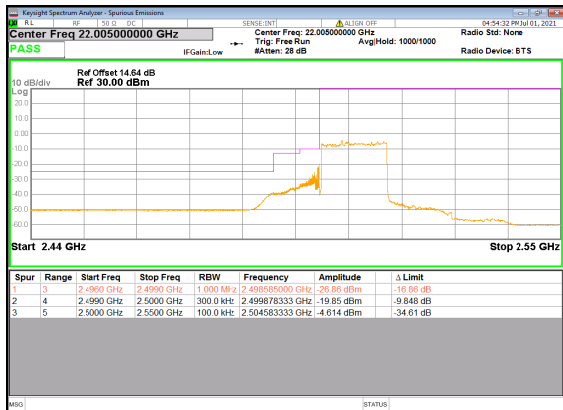
B2\_N7(15M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_  
Left\_Low\_CH



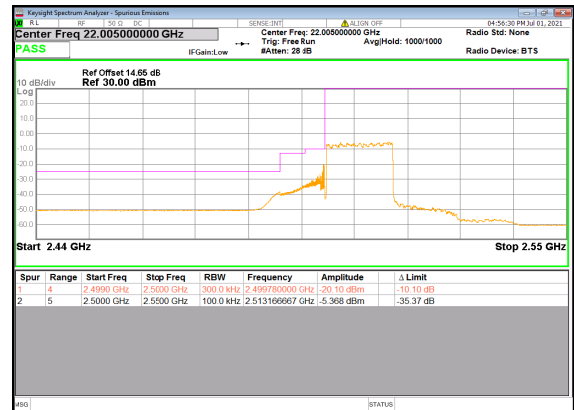
B2\_N7(15M)\_DFT-s-OFDM\_QPSK\_Edge\_1R  
B\_Left\_Low\_CH



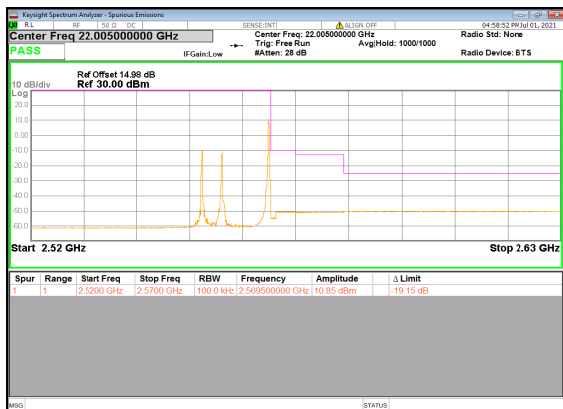
B2\_N7(15M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_  
Low\_CH



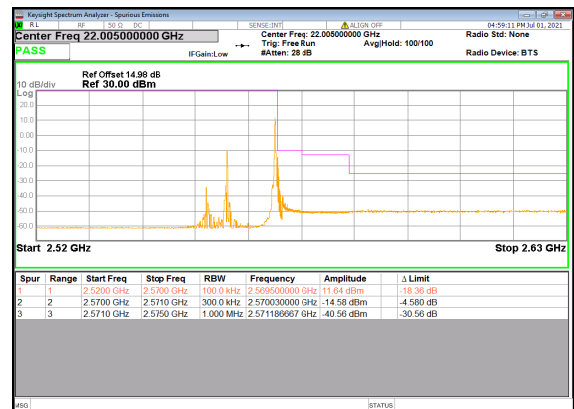
B2\_N7(15M)\_DFT-s-OFDM\_QPSK\_Outer\_Full  
\_Low\_CH



B2\_N7(15M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_  
Right\_High\_CH

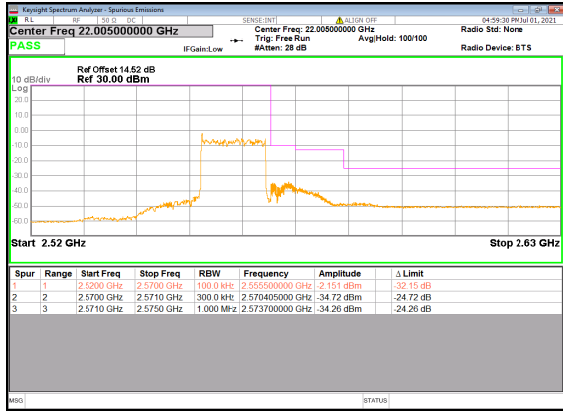


B2\_N7(15M)\_DFT-s-OFDM\_QPSK\_Edge\_1R  
B\_Right\_High\_CH

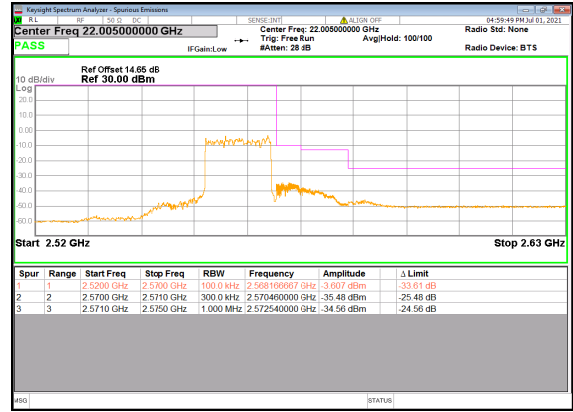




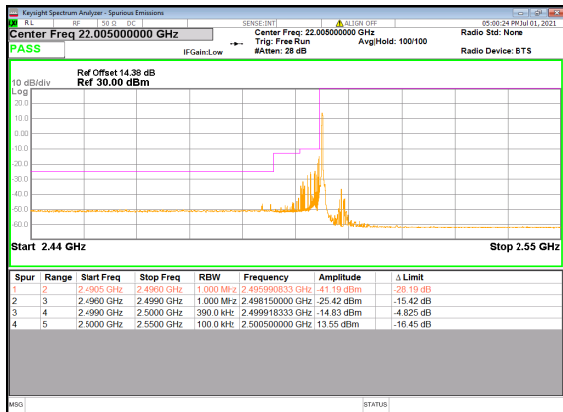
B2\_N7(15M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_High\_CH



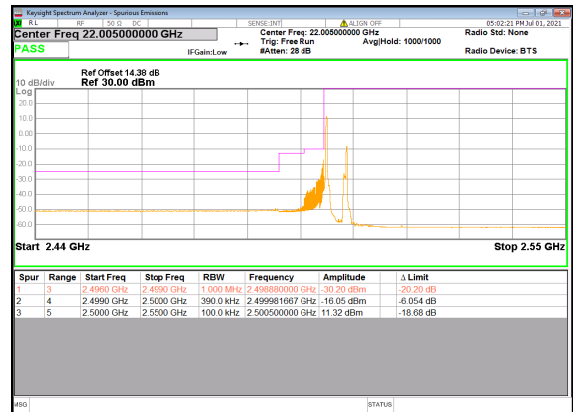
B2\_N7(15M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_High\_CH



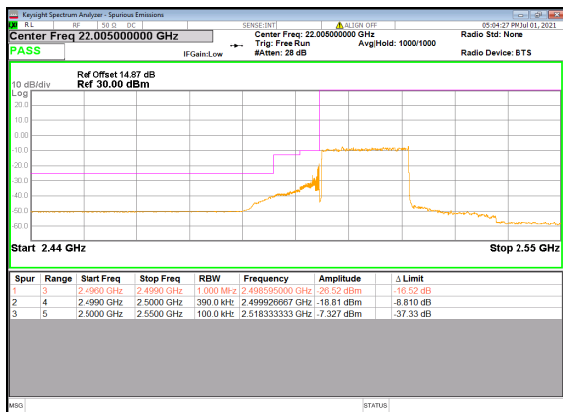
B2\_N7(20M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



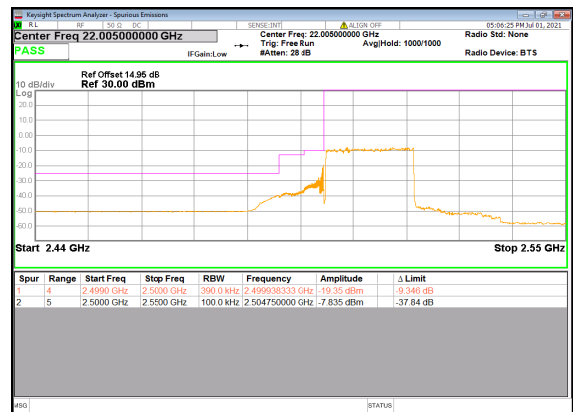
B2\_N7(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1R\_B\_Left\_Low\_CH



B2\_N7(20M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_Low\_CH

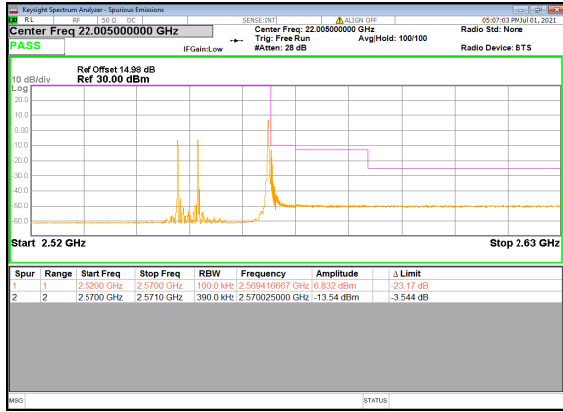


B2\_N7(20M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Low\_CH

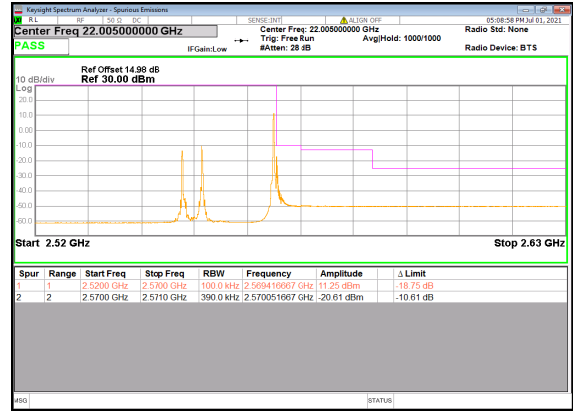




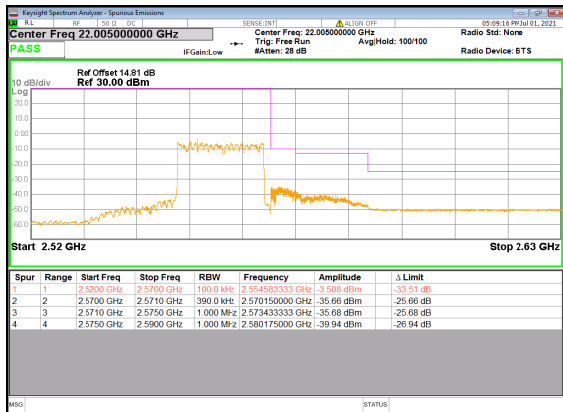
B2\_N7(20M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_ Right\_High\_CH



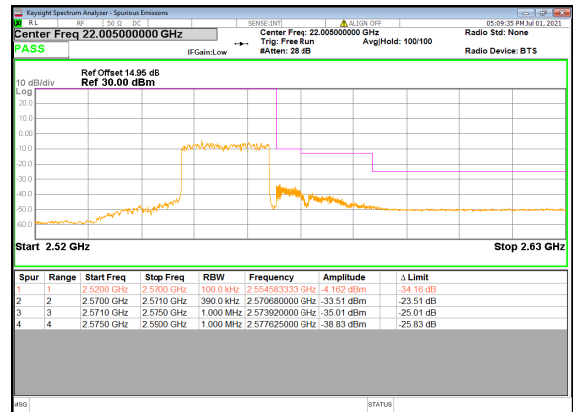
B2\_N7(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1R B\_Right\_High\_CH



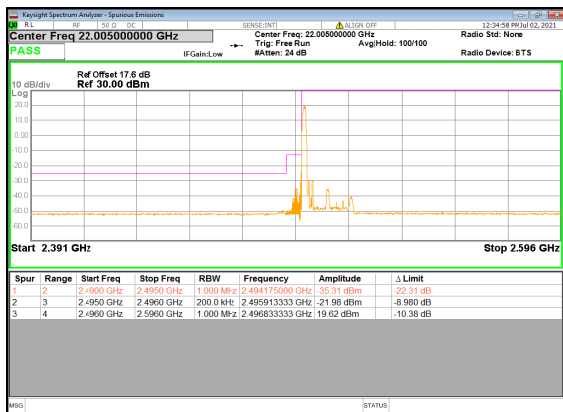
B2\_N7(20M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_ High\_CH



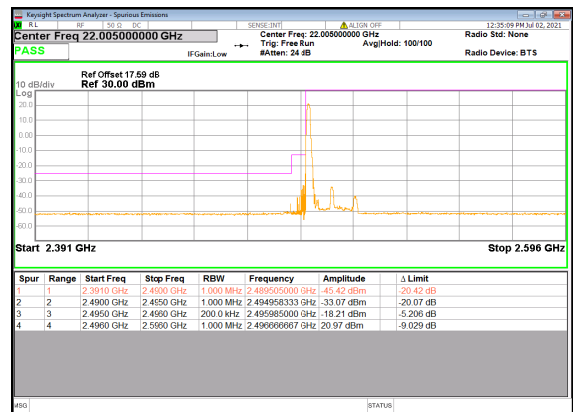
B2\_N7(20M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_ High\_CH



B26\_N41(20M)\_DFT-s-OFDM\_BPSK\_Edge\_1R B\_Left\_Low\_CH



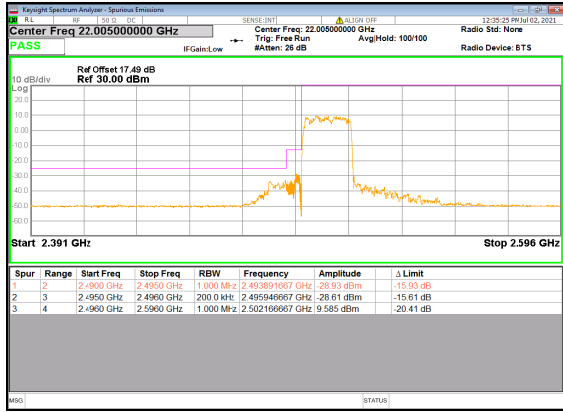
B26\_N41(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1 RB\_Left\_Low\_CH



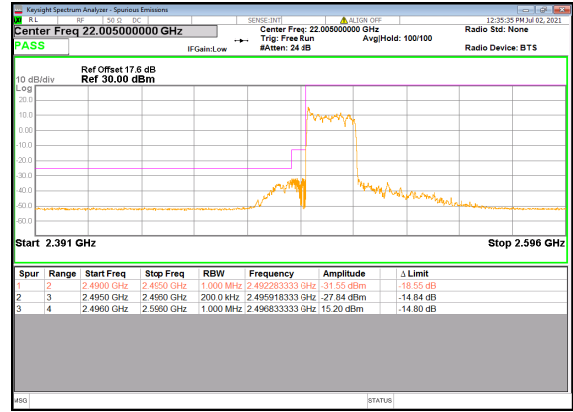




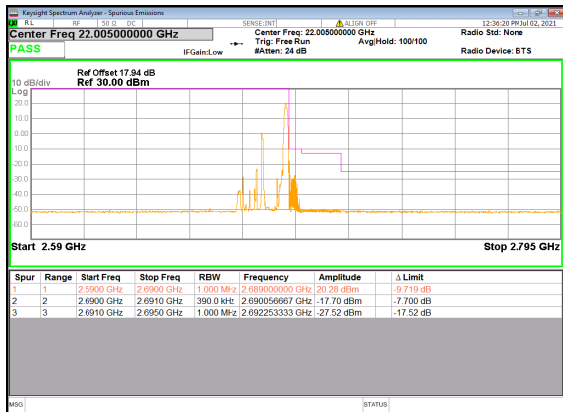
B26\_N41(20M)\_DFT-s-OFDM\_BPSK\_Outer\_Fu  
ll\_Low\_CH



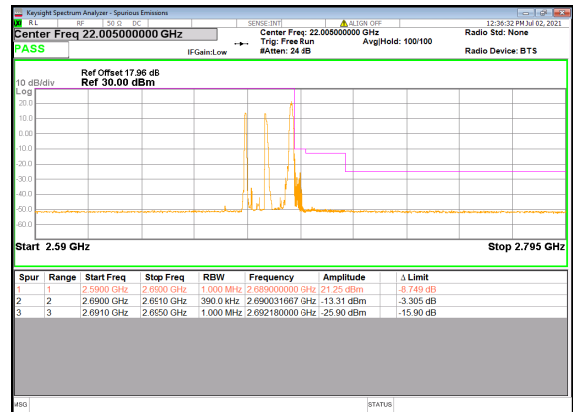
B26\_N41(20M)\_DFT-s-OFDM\_QPSK\_Outer\_F  
ull\_Low\_CH



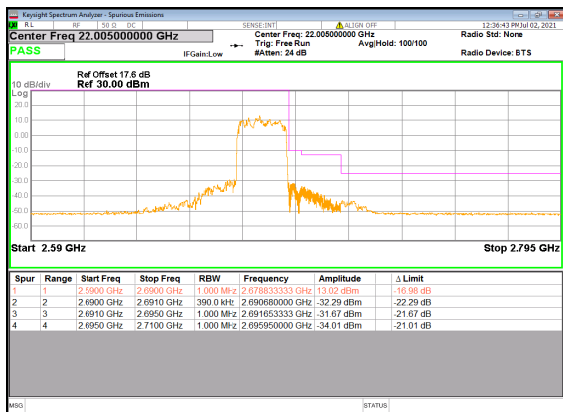
B26\_N41(20M)\_DFT-s-OFDM\_BPSK\_Edge\_1R  
B\_Right\_High\_CH



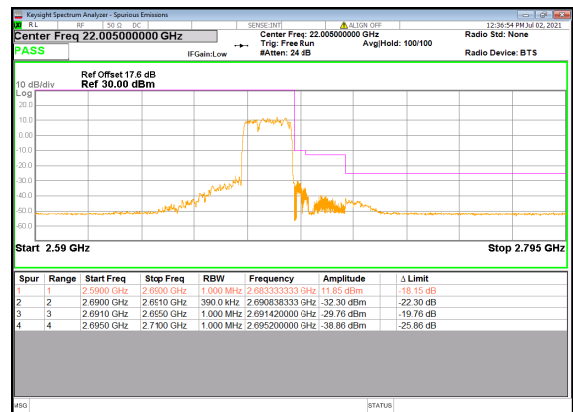
B26\_N41(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1  
RB\_Right\_High\_CH



B26\_N41(20M)\_DFT-s-OFDM\_BPSK\_Outer\_Fu  
ll\_High\_CH



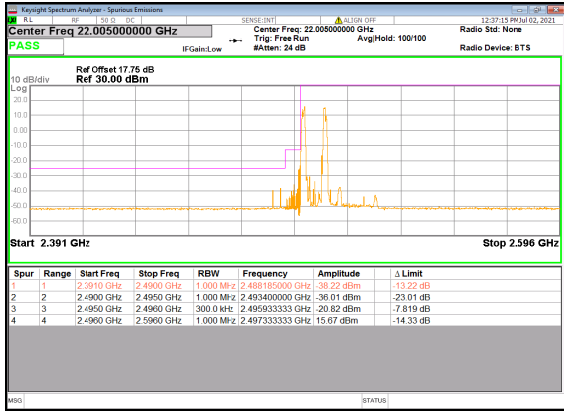
B26\_N41(20M)\_DFT-s-OFDM\_QPSK\_Outer\_F  
ull\_High\_CH



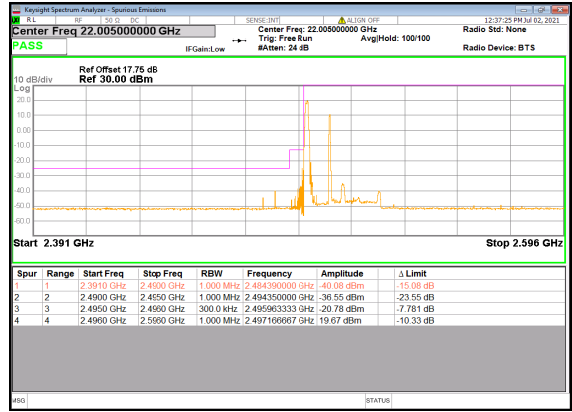




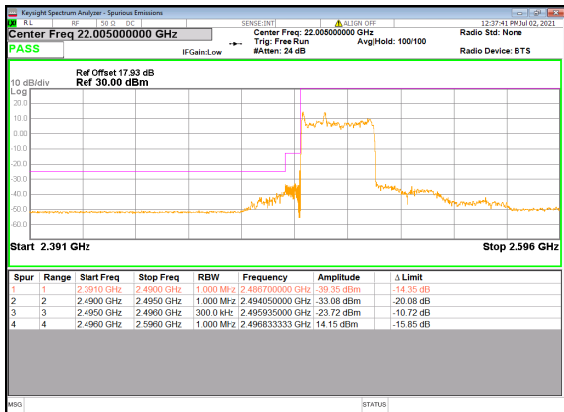
B26\_N41(30M)\_DFT-s-OFDM\_BPSK\_Edge\_1R  
B\_Left\_Low\_CH



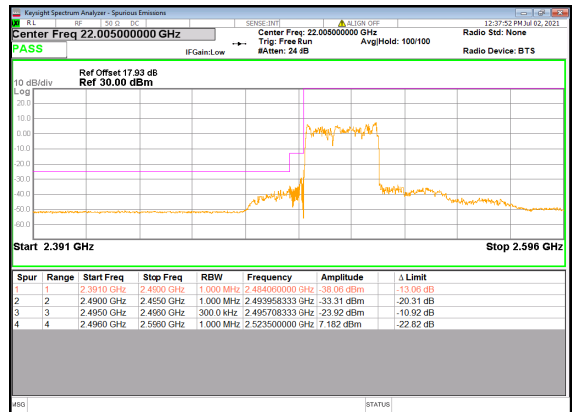
B26\_N41(30M)\_DFT-s-OFDM\_QPSK\_Edge\_1  
RB\_Left\_Low\_CH



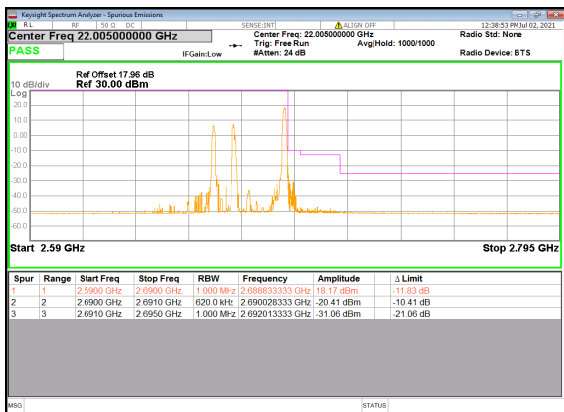
B26\_N41(30M)\_DFT-s-OFDM\_BPSK\_Outer\_Fu  
ll\_Low\_CH



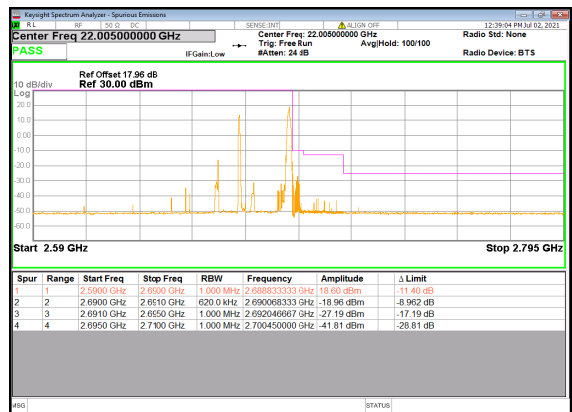
B26\_N41(30M)\_DFT-s-OFDM\_QPSK\_Outer\_F  
ull\_Low\_CH



B26\_N41(30M)\_DFT-s-OFDM\_BPSK\_Edge\_1R  
B\_Right\_High\_CH

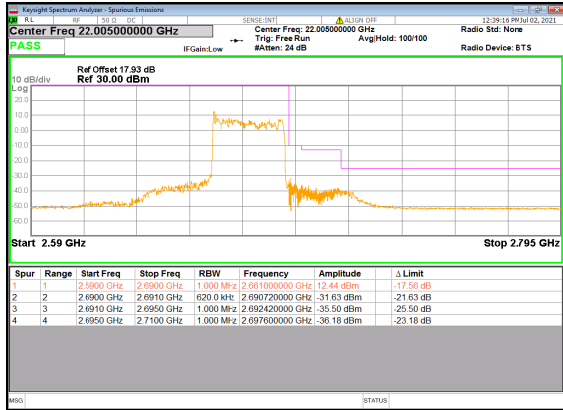


B26\_N41(30M)\_DFT-s-OFDM\_QPSK\_Edge\_1  
RB\_Right\_High\_CH

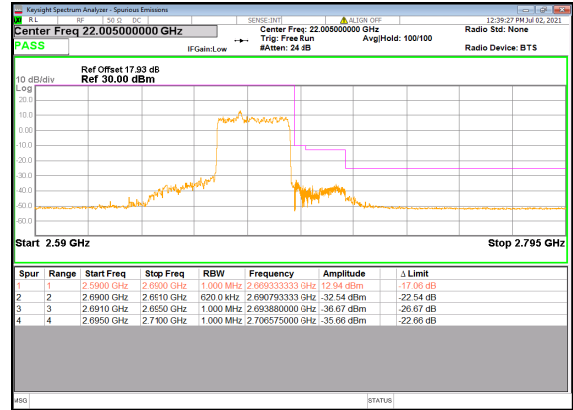




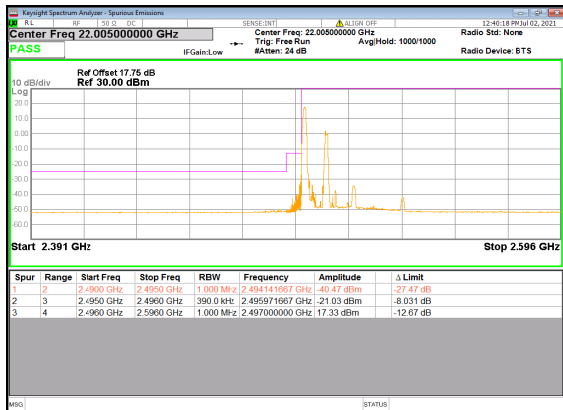
B26\_N41(30M)\_DFT-s-OFDM\_BPSK\_Outer\_Fu  
ll\_High\_CH



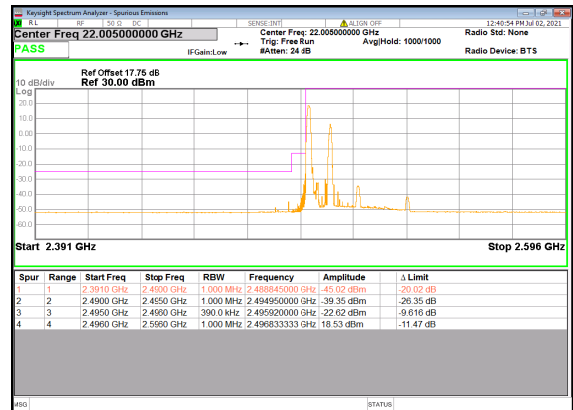
B26\_N41(30M)\_DFT-s-OFDM\_QPSK\_Outer\_F  
ull\_High\_CH



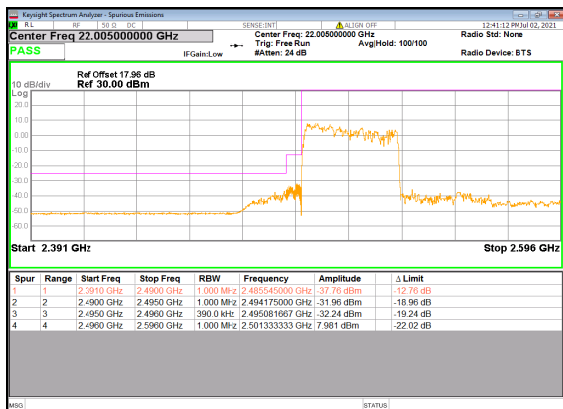
B26\_N41(40M)\_DFT-s-OFDM\_BPSK\_Edge\_1R  
B\_Left\_Low\_CH



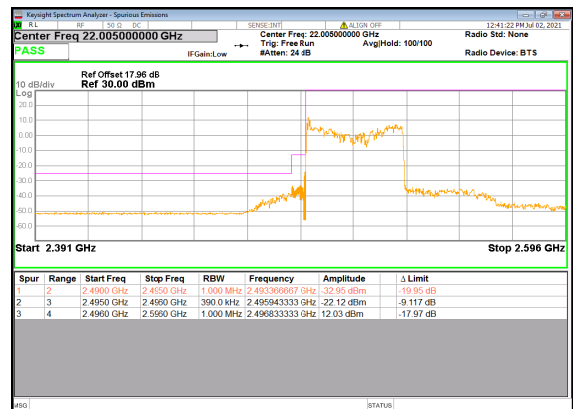
B26\_N41(40M)\_DFT-s-OFDM\_QPSK\_Edge\_1  
RB\_Left\_Low\_CH



B26\_N41(40M)\_DFT-s-OFDM\_BPSK\_Outer\_Fu  
ll\_Low\_CH

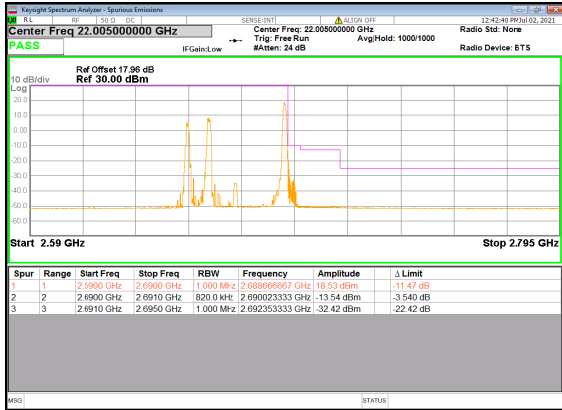


B26\_N41(40M)\_DFT-s-OFDM\_QPSK\_Outer\_F  
ull\_Low\_CH

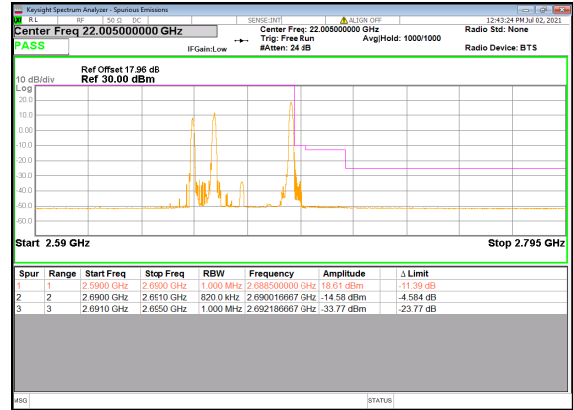




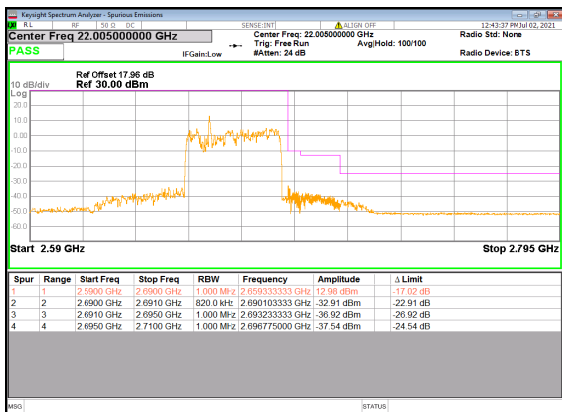
B26\_N41(40M)\_DFT-s-OFDM\_BPSK\_Edge\_1R  
B\_Right\_High\_CH



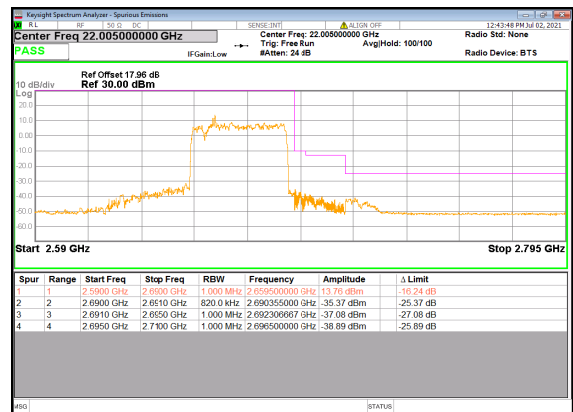
B26\_N41(40M)\_DFT-s-OFDM\_QPSK\_Edge\_1  
RB\_Right\_High\_CH



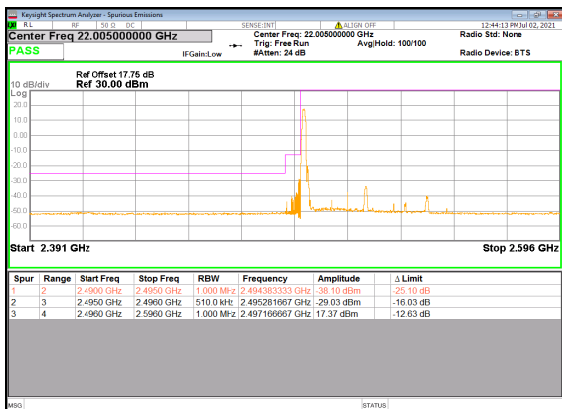
B26\_N41(40M)\_DFT-s-OFDM\_BPSK\_Outer\_Fu  
ll\_High\_CH



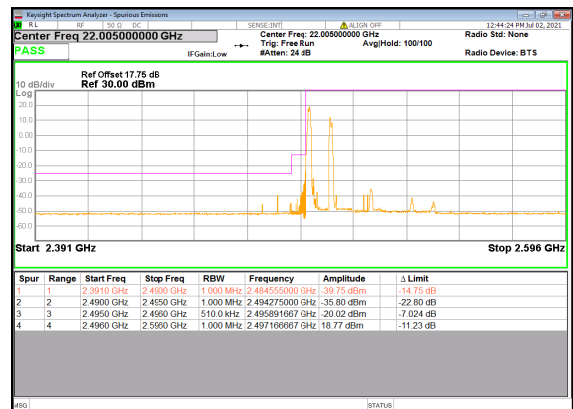
B26\_N41(40M)\_DFT-s-OFDM\_QPSK\_Outer\_F  
ull\_High\_CH



B26\_N41(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1R  
B\_Left\_Low\_CH

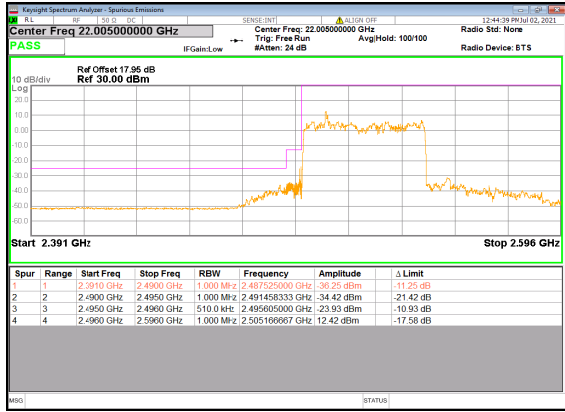


B26\_N41(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1  
RB\_Left\_Low\_CH

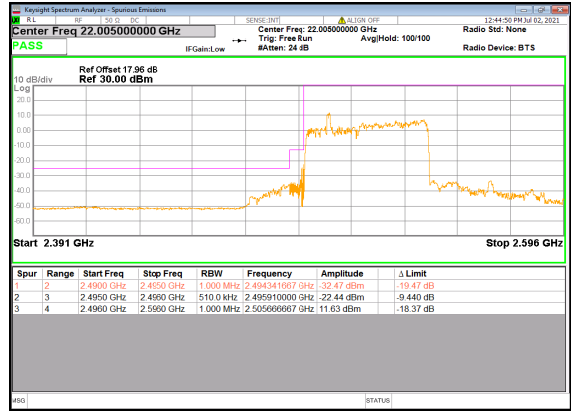




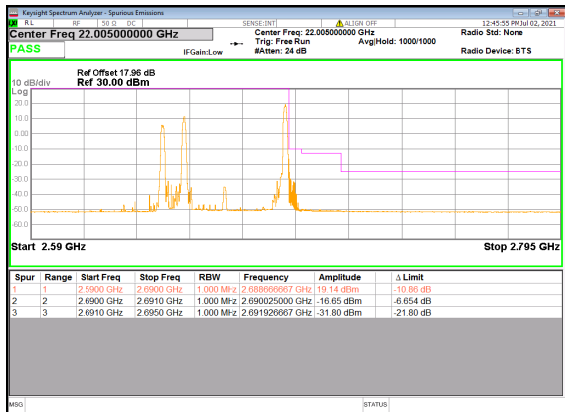
B26\_N41(50M)\_DFT-s-OFDM\_BPSK\_Outer\_Fu  
ll\_Low\_CH



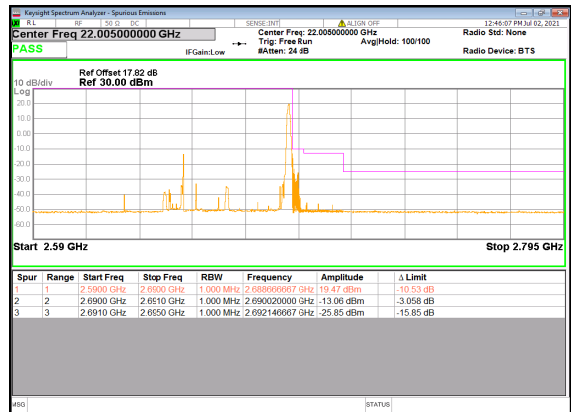
B26\_N41(50M)\_DFT-s-OFDM\_QPSK\_Outer\_F  
ull\_Low\_CH



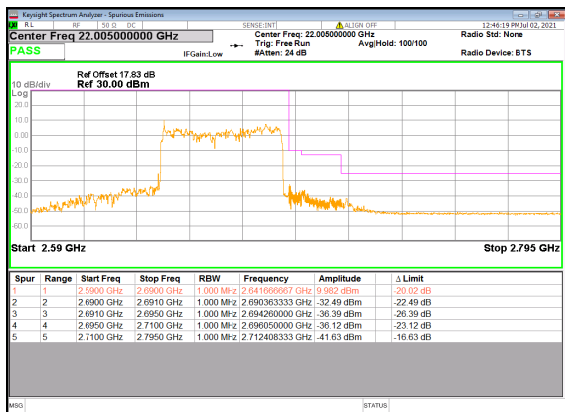
B26\_N41(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1R  
B\_Right\_High\_CH



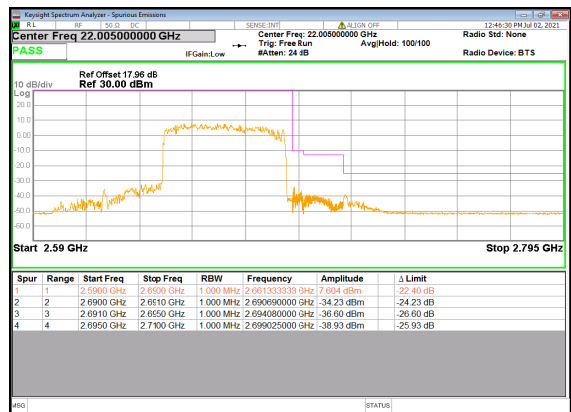
B26\_N41(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1  
RB\_Right\_High\_CH



B26\_N41(50M)\_DFT-s-OFDM\_BPSK\_Outer\_Fu  
ll\_High\_CH

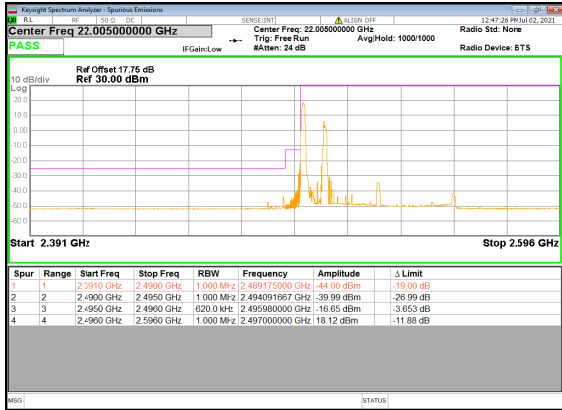


B26\_N41(50M)\_DFT-s-OFDM\_QPSK\_Outer\_F  
ull\_High\_CH

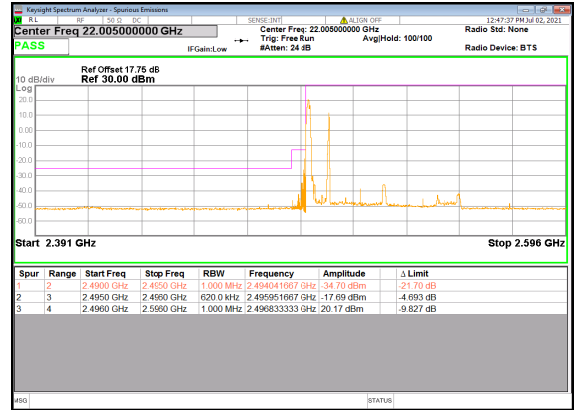




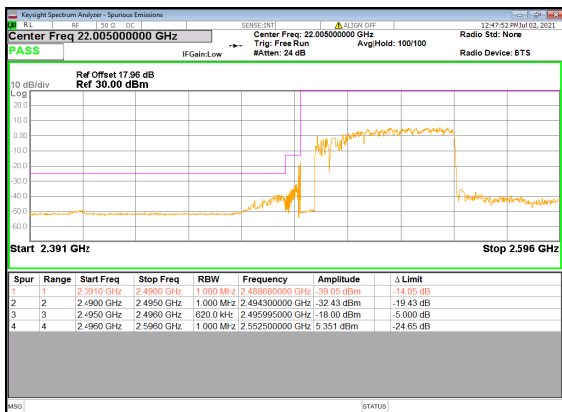
B26\_N41(60M)\_DFT-s-OFDM\_BPSK\_Edge\_1R  
B\_Left\_Low\_CH



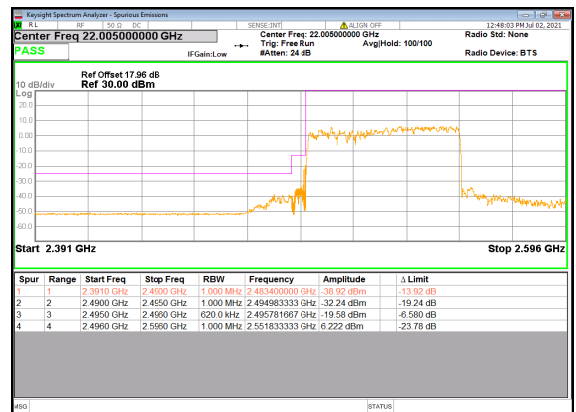
B26\_N41(60M)\_DFT-s-OFDM\_QPSK\_Edge\_1  
RB\_Left\_Low\_CH



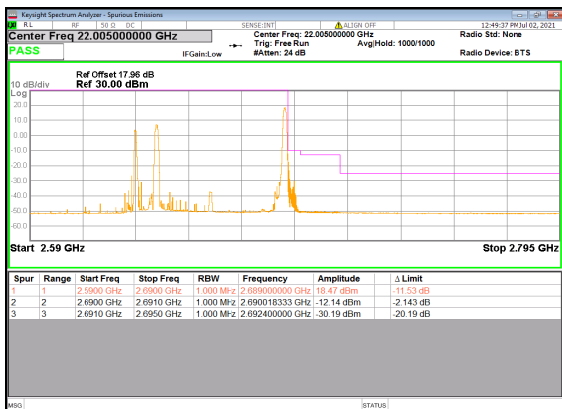
B26\_N41(60M)\_DFT-s-OFDM\_BPSK\_Outer\_Fu  
ll\_Low\_CH



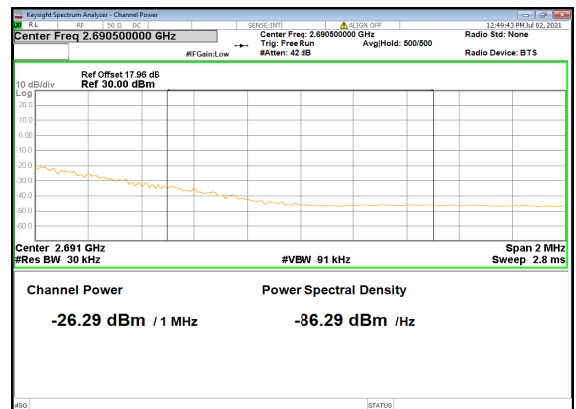
B26\_N41(60M)\_DFT-s-OFDM\_QPSK\_Outer\_F  
ull\_Low\_CH



B26\_N41(60M)\_DFT-s-OFDM\_BPSK\_Edge\_1R  
B\_Right\_High\_CH

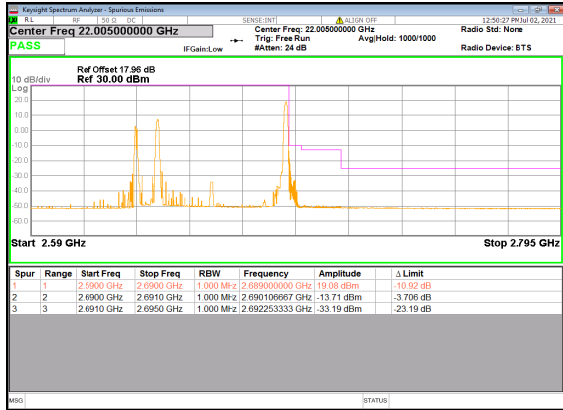


B26\_N41(60M)\_DFT-s-OFDM\_BPSK\_Edge\_1  
RB\_Right\_High\_CH

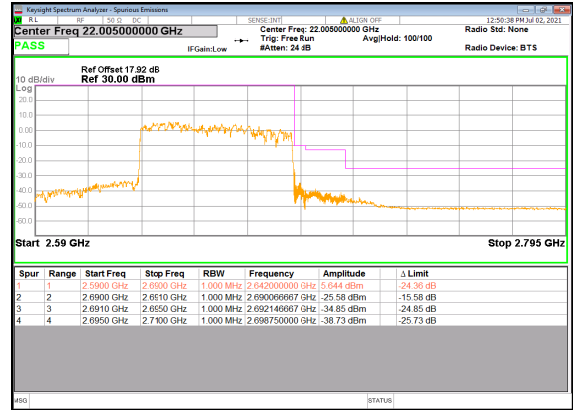




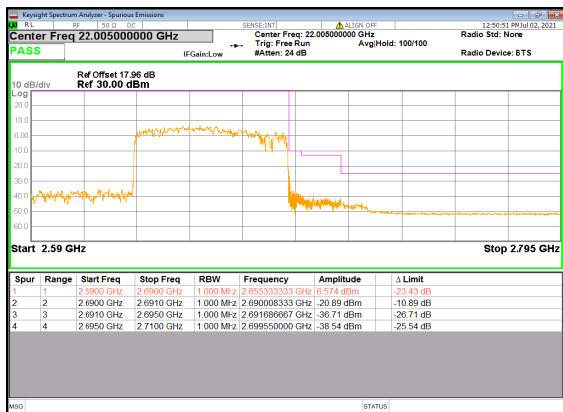
B26\_N41(60M)\_DFT-s-OFDM\_QPSK\_Edge\_1R  
B\_Right\_High\_CH



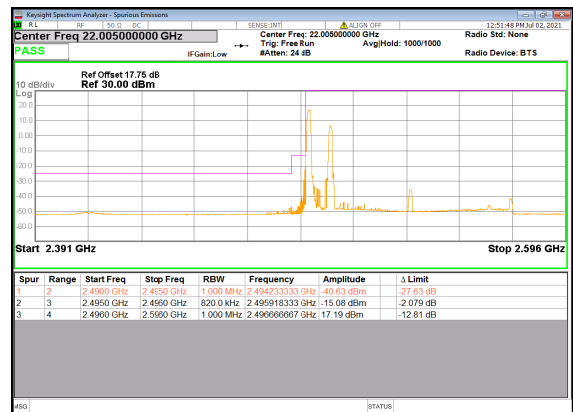
B26\_N41(60M)\_DFT-s-OFDM\_BPSK\_Outer\_F  
ull\_High\_CH



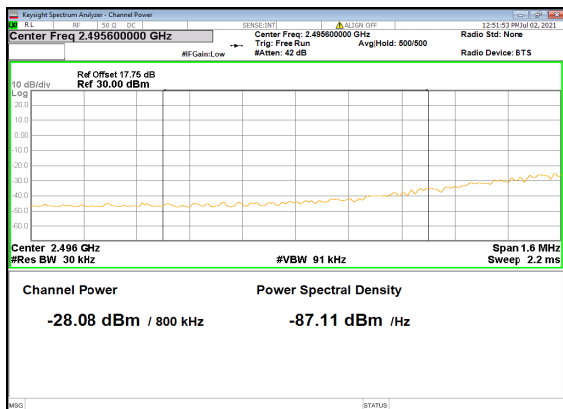
B26\_N41(60M)\_DFT-s-OFDM\_QPSK\_Outer\_F  
ull\_High\_CH



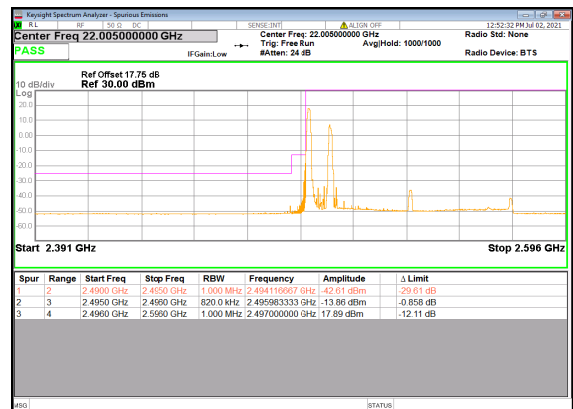
B26\_N41(80M)\_DFT-s-OFDM\_BPSK\_Edge\_1  
RB\_Left\_Low\_CH



B26\_N41(80M)\_DFT-s-OFDM\_BPSK\_Edge\_1R  
B\_Left\_Low\_CH\_CHP\_PASS

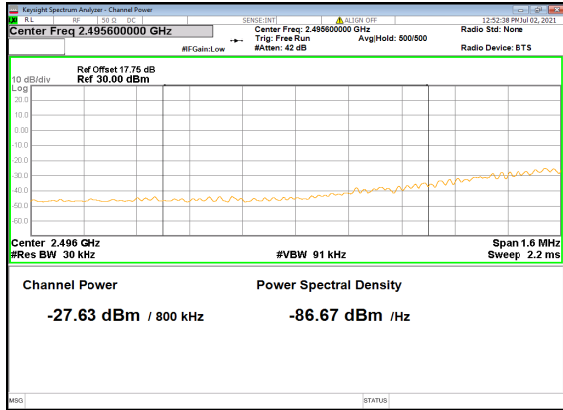


B26\_N41(80M)\_DFT-s-OFDM\_QPSK\_Edge\_1  
RB\_Left\_Low\_CH

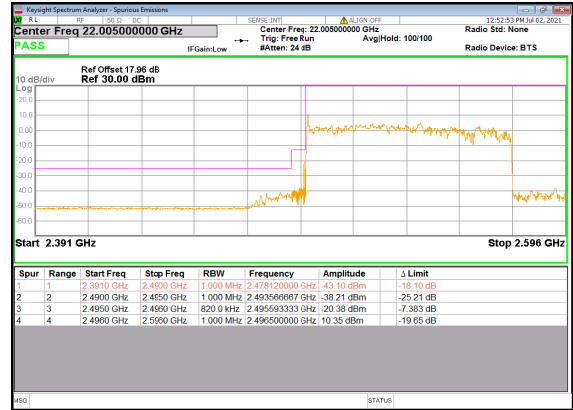




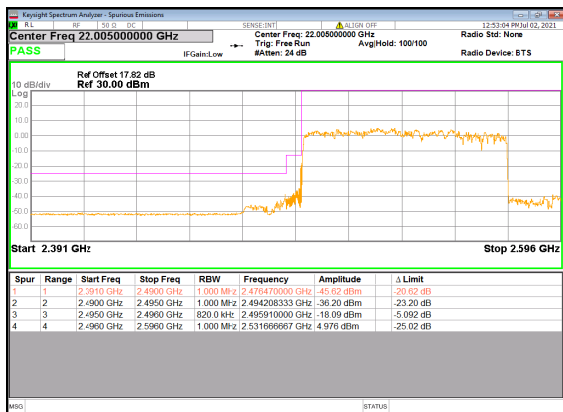
B26\_N41(80M)\_DFT-s-OFDM\_QPSK\_Edge\_1R  
B\_Left\_Low\_CH\_CHP\_PASS



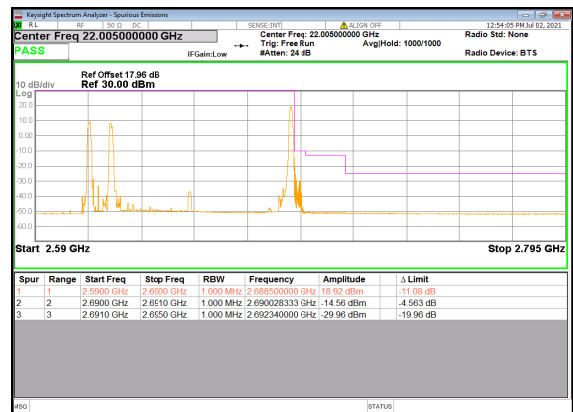
B26\_N41(80M)\_DFT-s-OFDM\_BPSK\_Outer\_F  
ull\_Low\_CH



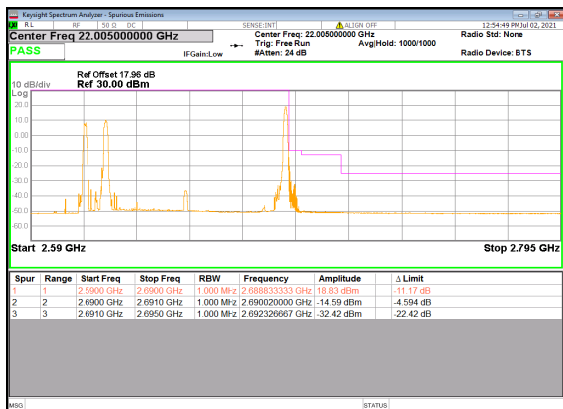
B26\_N41(80M)\_DFT-s-OFDM\_QPSK\_Outer\_F  
ull\_Low\_CH



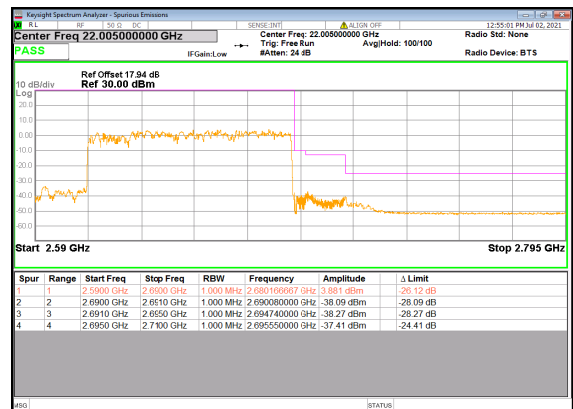
B26\_N41(80M)\_DFT-s-OFDM\_BPSK\_Edge\_1  
RB\_Right\_High\_CH



B26\_N41(80M)\_DFT-s-OFDM\_QPSK\_Edge\_1R  
B\_Right\_High\_CH



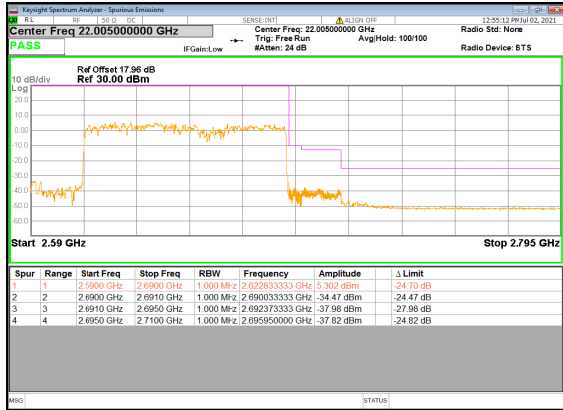
B26\_N41(80M)\_DFT-s-OFDM\_BPSK\_Outer\_F  
ull\_High\_CH



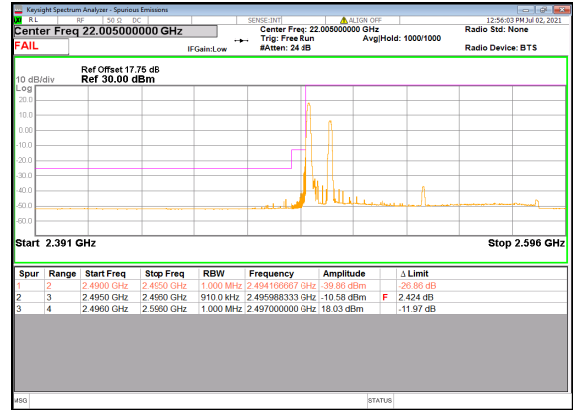




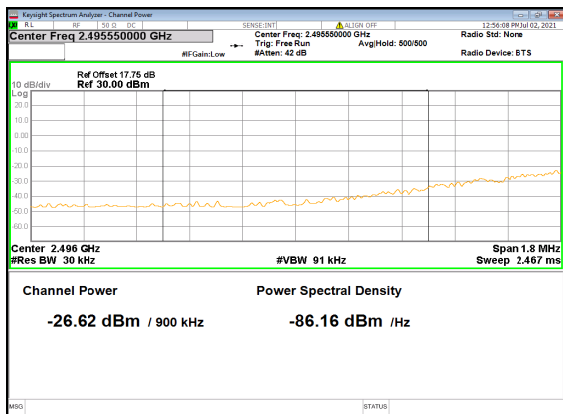
B26\_N41(80M)\_DFT-s-OFDM\_QPSK\_Outer\_F  
ull\_High\_CH



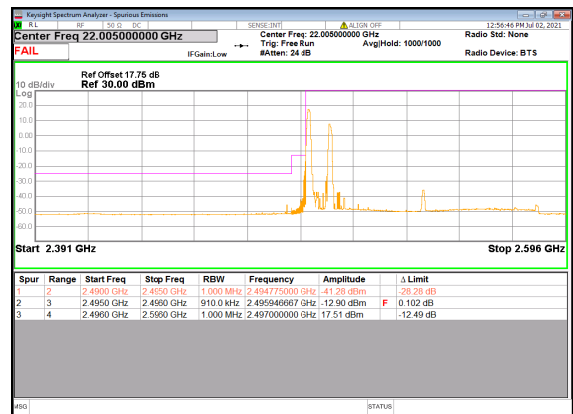
B26\_N41(90M)\_DFT-s-OFDM\_BPSK\_Edge\_1  
RB\_Left\_Low\_CH



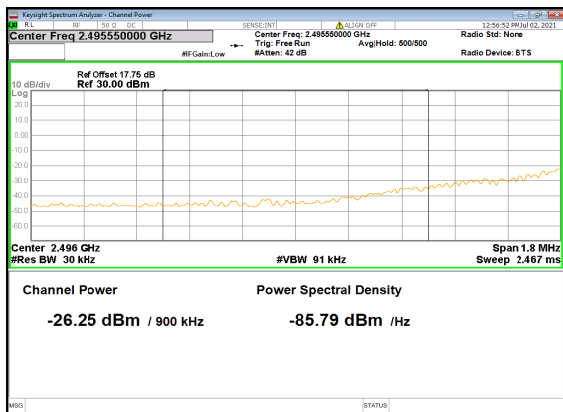
B26\_N41(90M)\_DFT-s-OFDM\_BPSK\_Edge\_1R  
B\_Left\_Low\_CH\_CHP\_PASS



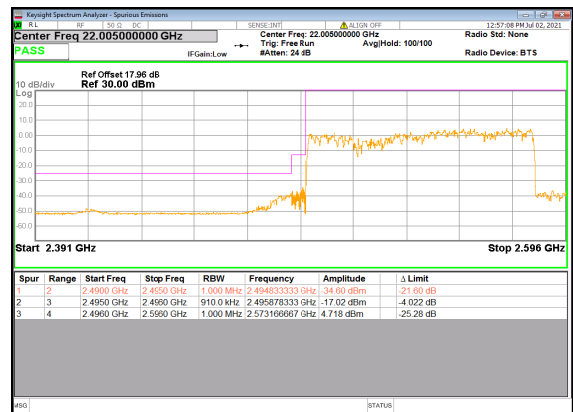
B26\_N41(90M)\_DFT-s-OFDM\_QPSK\_Edge\_1  
RB\_Left\_Low\_CH



B26\_N41(90M)\_DFT-s-OFDM\_QPSK\_Edge\_1R  
B\_Left\_Low\_CH\_CHP\_PASS



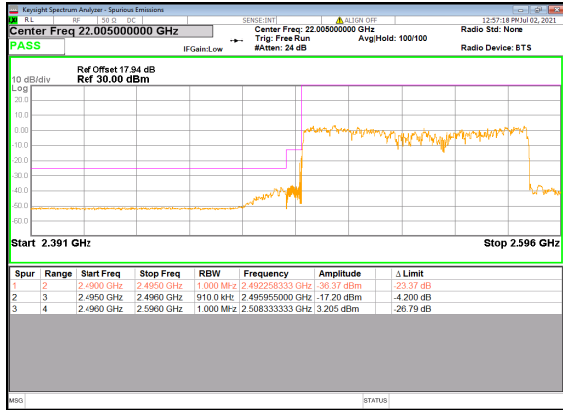
B26\_N41(90M)\_DFT-s-OFDM\_BPSK\_Outer\_F  
ull\_Low\_CH



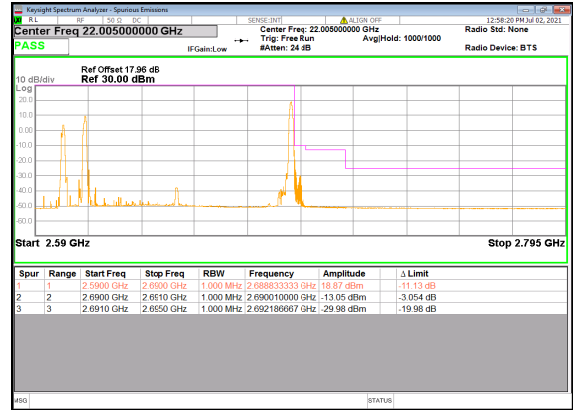




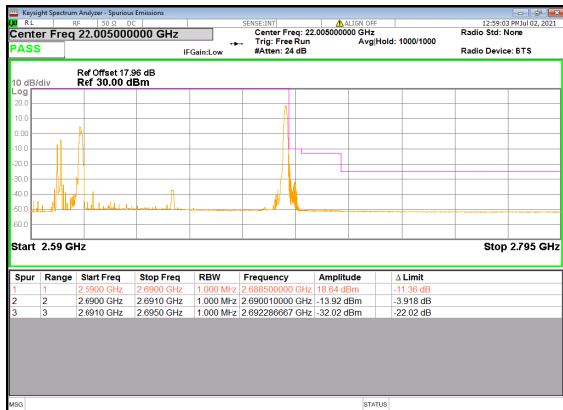
B26\_N41(90M)\_DFT-s-OFDM\_QPSK\_Outer\_F  
ull\_Low\_CH



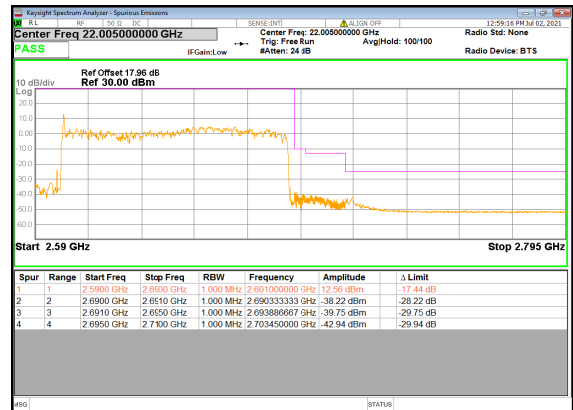
B26\_N41(90M)\_DFT-s-OFDM\_BPSK\_Edge\_1  
RB\_Right\_High\_CH



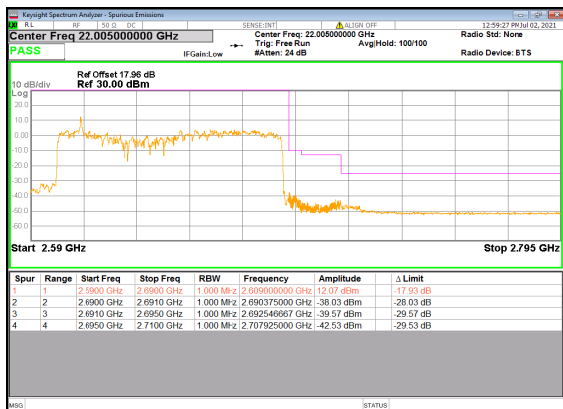
B26\_N41(90M)\_DFT-s-OFDM\_QPSK\_Edge\_1R  
B\_Right\_High\_CH



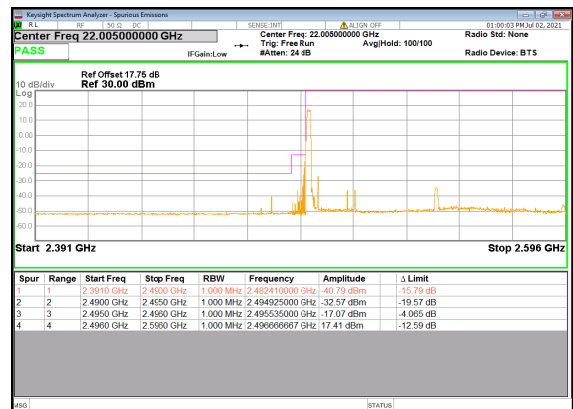
B26\_N41(90M)\_DFT-s-OFDM\_BPSK\_Outer\_F  
ull\_High\_CH



B26\_N41(90M)\_DFT-s-OFDM\_QPSK\_Outer\_F  
ull\_High\_CH

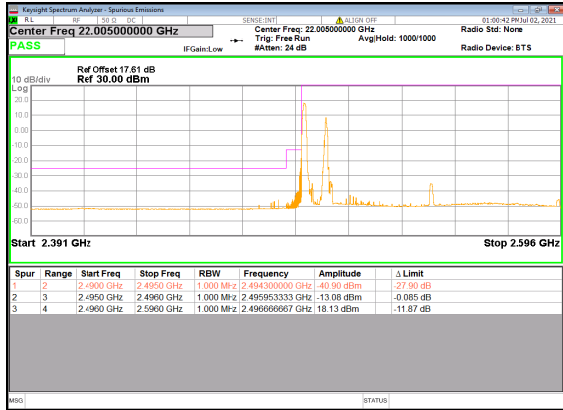


B26\_N41(100M)\_DFT-s-OFDM\_BPSK\_Edge\_  
1RB\_Left\_Low\_CH

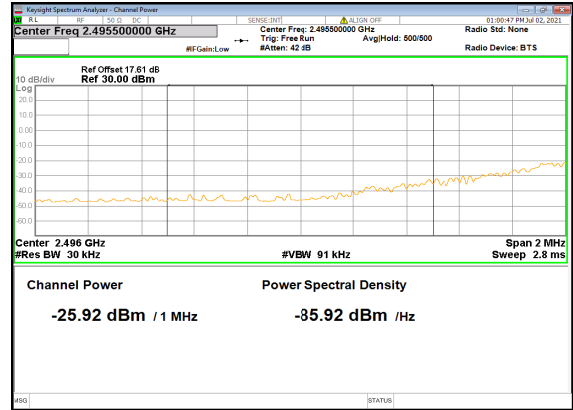




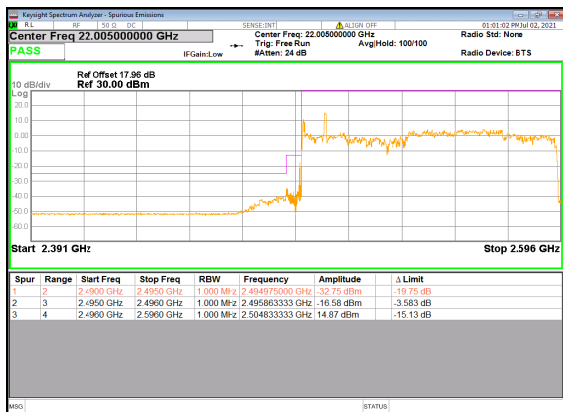
B26\_N41(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1  
RB\_Left\_Low\_CH



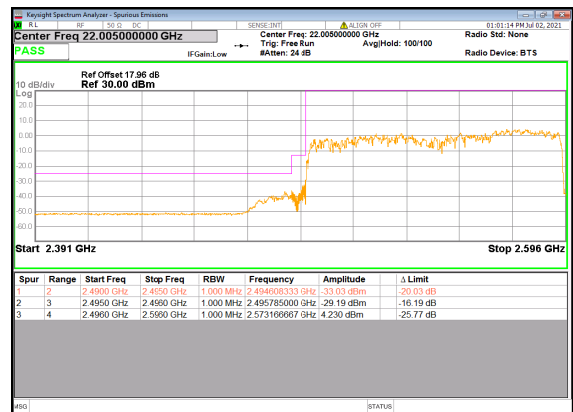
B26\_N41(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1  
1RB\_Left\_Low\_CH\_CHP\_PASS



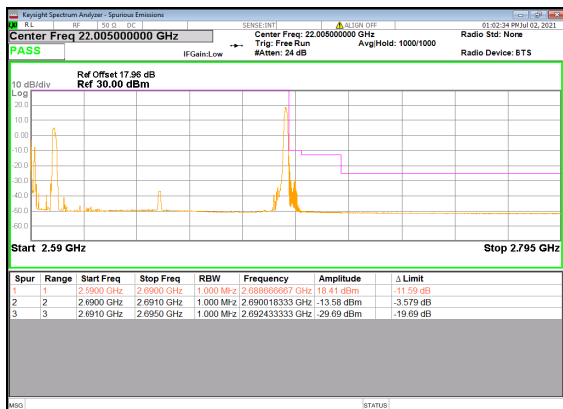
B26\_N41(100M)\_DFT-s-OFDM\_BPSK\_Outer\_F  
ull\_Low\_CH



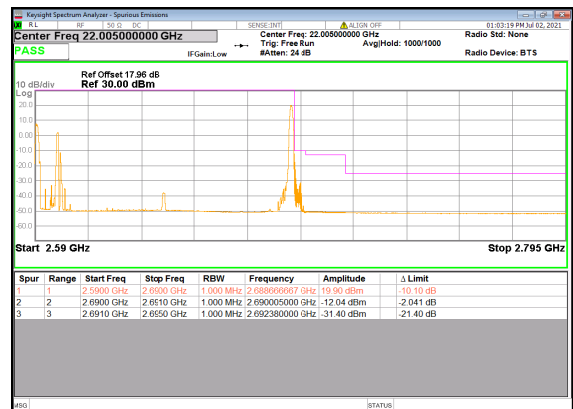
B26\_N41(100M)\_DFT-s-OFDM\_QPSK\_Outer\_F  
Full\_Low\_CH



B26\_N41(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1  
RB\_Right\_High\_CH

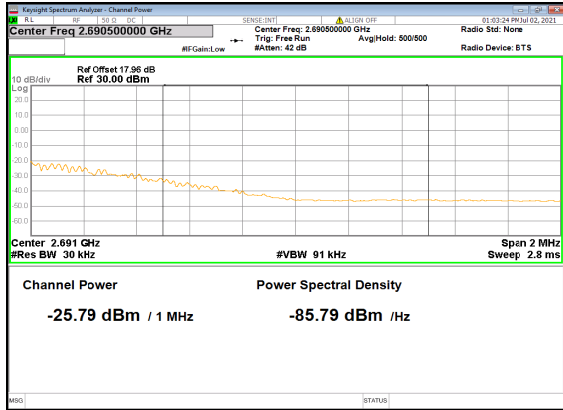


B26\_N41(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1  
1RB\_Right\_High\_CH

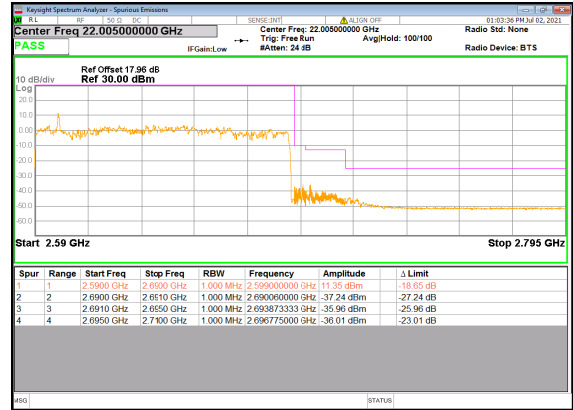




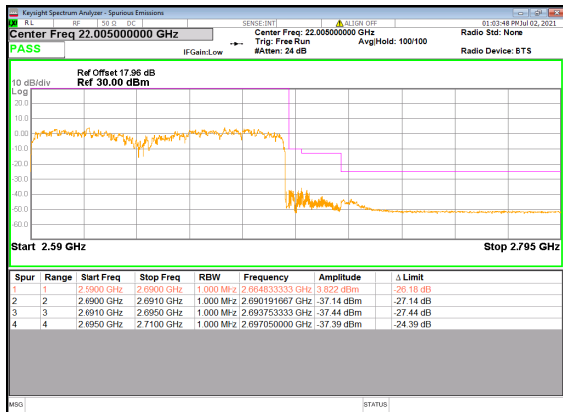
B26\_N41(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1  
RB\_Right\_High\_CH\_CHP\_PASS



B26\_N41(100M)\_DFT-s-OFDM\_BPSK\_Outer  
Full\_High\_CH



B26\_N41(100M)\_DFT-s-OFDM\_QPSK\_Outer  
Full\_High\_CH



## 2.6. Radiated Spurious Emissions

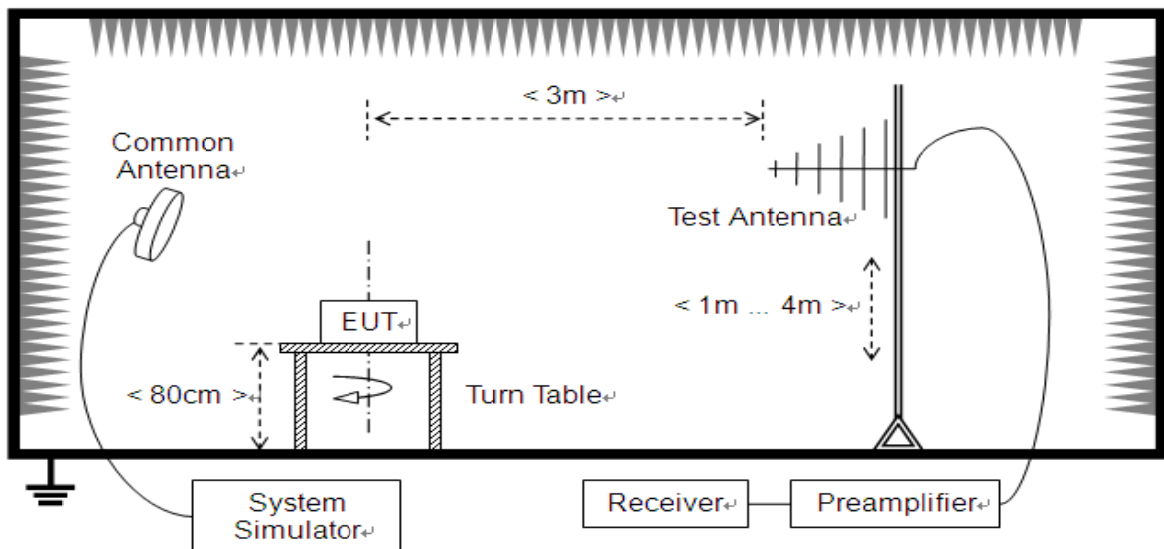
### 2.6.1. Requirement

According to FCC section 2.1051, section 27.53(h), section 27.53(g), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB. This calculated to be -13dBm.

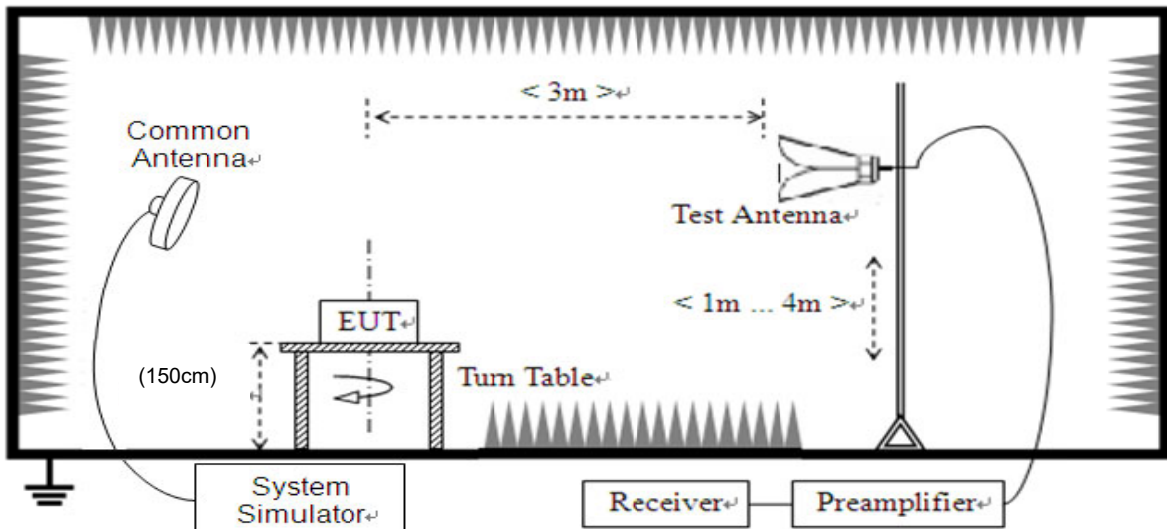
Additional requirement for NR Band N41:

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $55 + 10 \log(P)$  dB. This calculated to be -25dBm.

### 2.6.2. Test Description



(For the test frequency from 30MHz to 1GHz)



(For the test frequency above 1GHz)

The EUT is located in a 3m Full-Anechoic Chamber, the cable loss, air loss and so on of the site as factors are pre-calibrated using the "Substitution" method, and calculated to correct the reading. A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power, and only the test result of the maximum output power was recorded.

In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground and the Turn Table is actuated to turn from 0° to 360° to determine the maximum value of the radiated power. The emission levels at both horizontal and vertical polarizations should be tested. The Filters consists of Notch Filters and High Pass Filter.

**Note:** when doing measurements above 1GHz, the EUT has been within the 3dB cone width of the horn antenna during horizontal antenna.

### 2.6.3. Test procedure

KDB 971168 D01v03 Section 5.8 and ANSI/TIA-603-E-2016.



#### 2.6.4. Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. Test Antenna height is varied from 1m to 4m above the ground, and the Turn Table is actuated to turn from 0° to 360°, both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The substitution corrections are obtained as described below:

$$A_{\text{SUBST}} = P_{\text{SUBST\_TX}} - P_{\text{SUBST\_RX}} - L_{\text{SUBST\_CABLES}} + G_{\text{SUBST\_TX\_ANT}}$$

$$A_{\text{TOT}} = L_{\text{CABLES}} + A_{\text{SUBST}}$$

Where  $A_{\text{SUBST}}$  is the final substitution correction including receive antenna gain.

$P_{\text{SUBST\_TX}}$  is signal generator level,

$P_{\text{SUBST\_RX}}$  is receiver level,

$L_{\text{SUBST\_CABLES}}$  is cable losses including TX cable,

$G_{\text{SUBST\_TX\_ANT}}$  is substitution antenna gain.

$A_{\text{TOT}}$  is total correction factor including cable loss and substitution correction

During the test, the data of  $A_{\text{TOT}}$  was added in the Test Spectrum Analyze, so Spectrum Analyze reading is the final values which contain the data of  $A_{\text{TOT}}$ .

**Note1:** The power of the EUT transmitting frequency should be ignored.

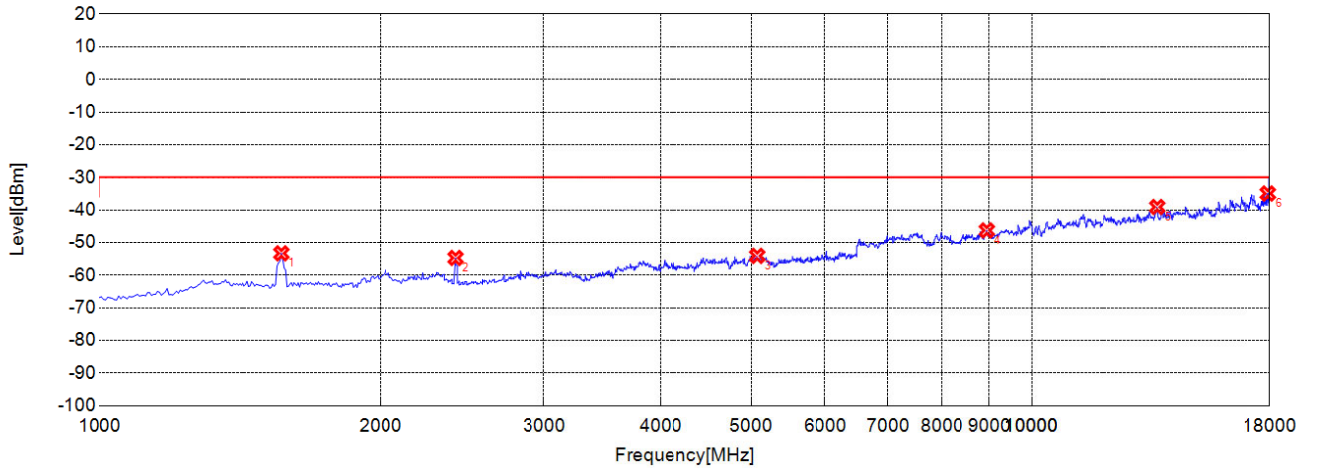
**Note2:** All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

**Note3:** All bandwidth and modulation were considered and evaluated respectively by performing full test for each band, only the worst cases (Max Bandwidth and QPSK mode) were recorded in this test report.



Ant 0

### Test Graph



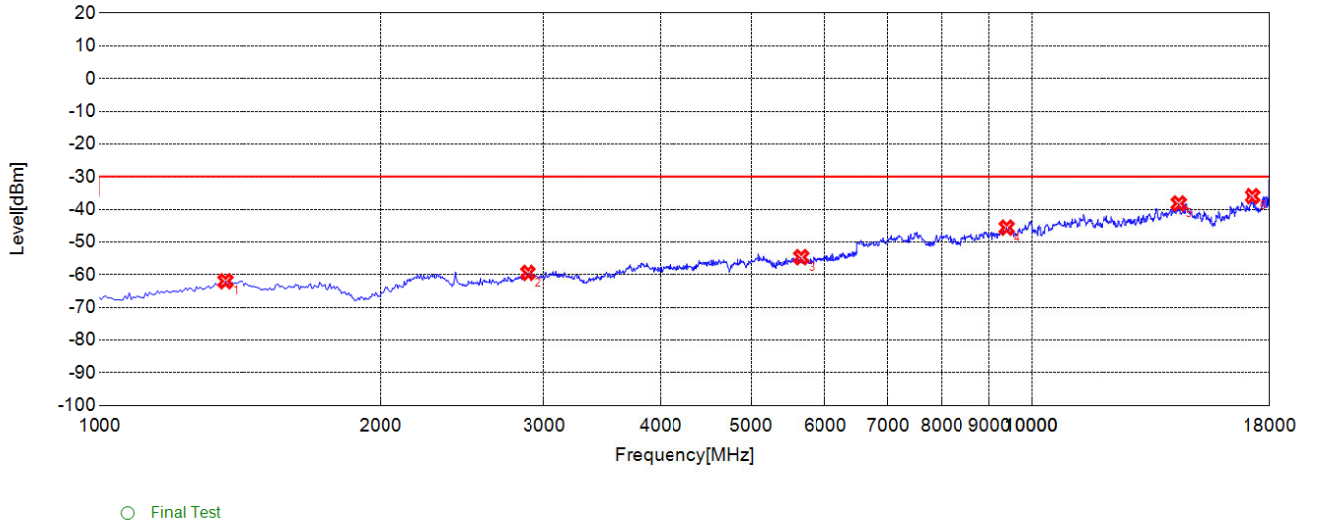
○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1567.0670	-53.31	-30.00	23.31	-9.28	-45.74	36.46	Horizontal
2	2409.4090	-54.72	-30.00	24.72	-10.24	-47.44	37.20	Horizontal
3	5074.0740	-54.09	-30.00	24.09	-2.35	-43.85	41.50	Horizontal
4	8951.9520	-46.29	-30.00	16.29	10.23	-36.62	46.85	Horizontal
5	13648.6490	-39.11	-30.00	9.11	22.45	-27.59	50.04	Horizontal
6	17930.9310	-34.97	-30.00	4.97	29.78	-25.95	55.73	Horizontal

N28 145600 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 1-18G HH



### Test Graph



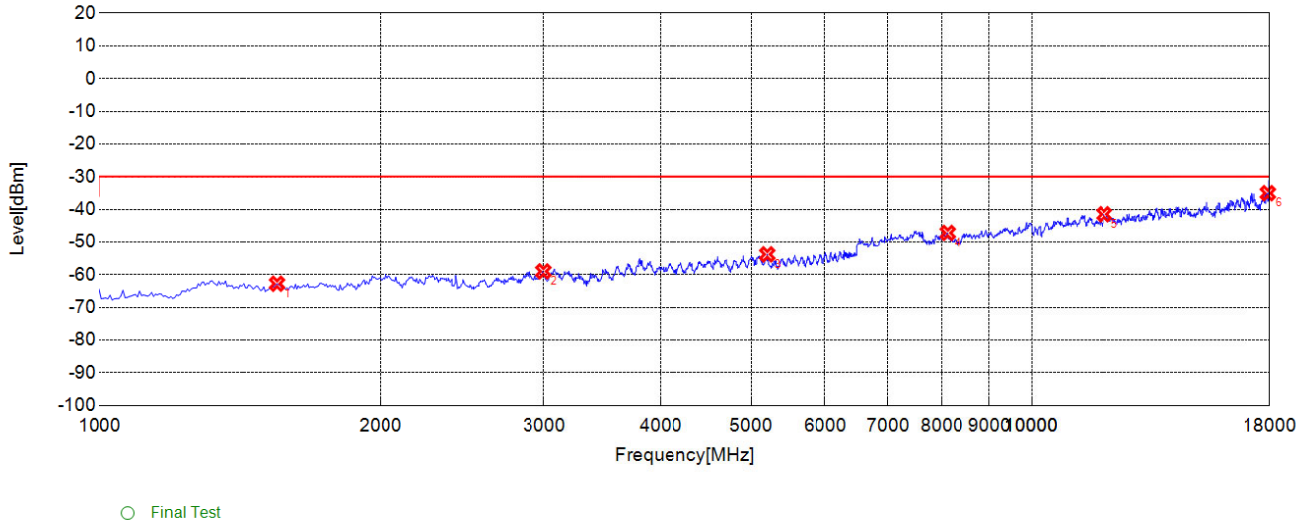
Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1363.3630	-62	-30.00	32.00	-8.46	-45.29	36.83	Vertical
2	2882.8830	-59.45	-30.00	29.45	-9.22	-47.64	38.42	Vertical
3	5652.1520	-54.64	-30.00	24.64	-2.29	-42.81	40.52	Vertical
4	9400.9010	-45.6	-30.00	15.60	12.69	-36.38	49.07	Vertical
5	14385.3850	-38.22	-30.00	8.22	23.26	-27.27	50.53	Vertical
6	17263.2630	-35.99	-30.00	5.99	23.67	-27.06	50.73	Vertical

N28 145600 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 1-18G HV





### Test Graph

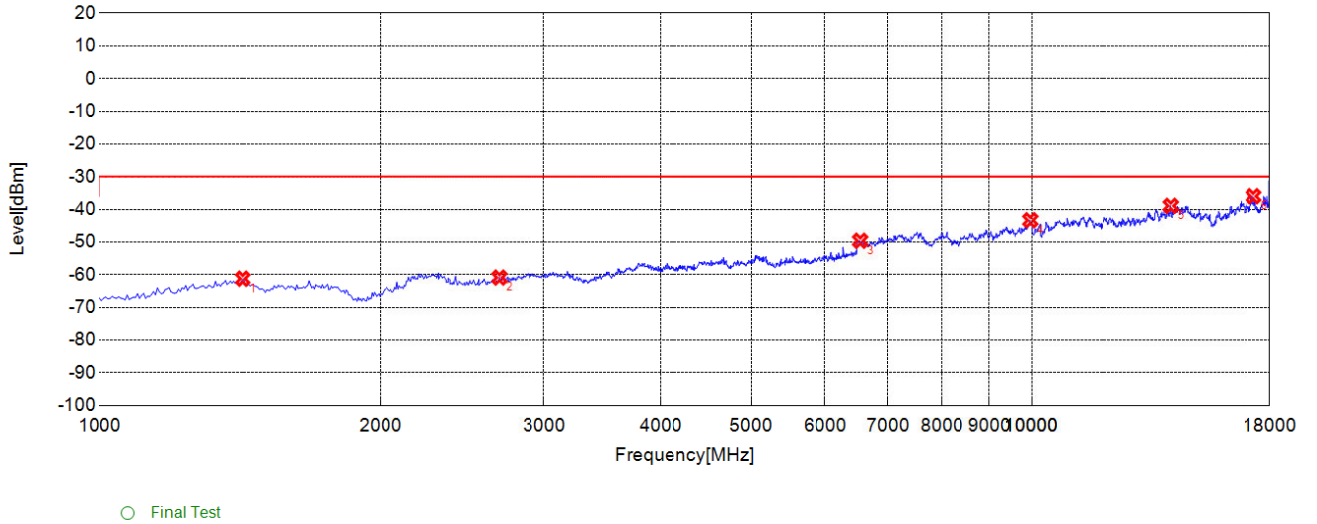


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1550.5510	-62.76	-30.00	32.76	-9.29	-45.66	36.37	Horizontal
2	2998.4980	-58.99	-30.00	28.99	-9.10	-47.91	38.81	Horizontal
3	5200.7010	-53.77	-30.00	23.77	-2.01	-43.15	41.14	Horizontal
4	8111.6120	-47.22	-30.00	17.22	10.44	-35.48	45.92	Horizontal
5	11967.9680	-41.51	-30.00	11.51	17.37	-31.86	49.23	Horizontal
6	17930.9310	-35.07	-30.00	5.07	29.78	-25.95	55.73	Horizontal

N28 145600 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 1-18G VH



### Test Graph

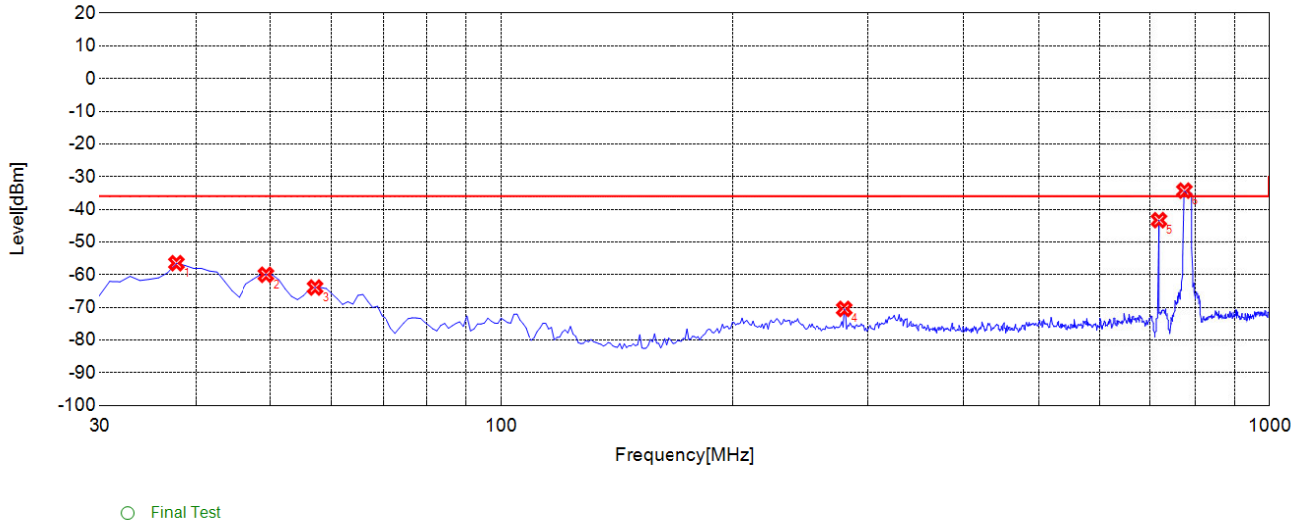


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	1423.9240	-61.23	-30.00	31.23	-8.54	-45.38	36.84	Vertical
2	2684.6850	-60.88	-30.00	30.88	-10.40	-47.39	36.99	Vertical
3	6546.0460	-49.62	-30.00	19.62	4.53	-39.13	43.66	Vertical
4	9964.9650	-43.34	-30.00	13.34	13.78	-34.71	48.49	Vertical
5	14109.1090	-38.94	-30.00	8.94	22.68	-27.71	50.39	Vertical
6	17297.7980	-35.99	-30.00	5.99	22.77	-27.88	50.65	Vertical

N28 145600 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 1-18G VV



### Test Graph

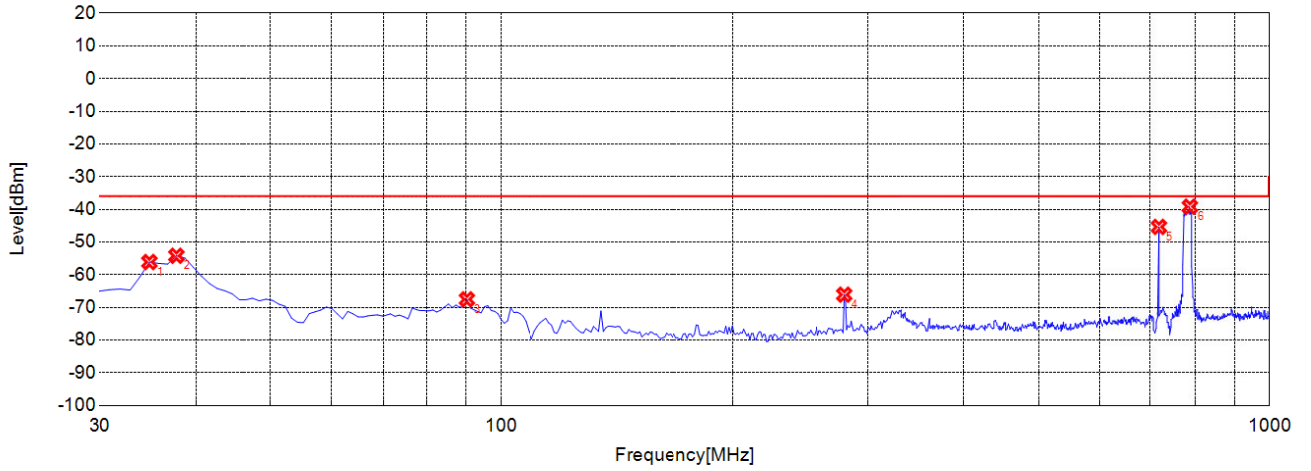


Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	37.7680	-56.48	-36.00	20.48	-8.07	-39.56	31.49	Horizontal
2	49.4190	-60.02	-36.00	24.02	-7.01	-39.46	32.45	Horizontal
3	57.1870	-63.92	-36.00	27.92	-9.83	-39.48	29.65	Horizontal
4	279.5400	-70.47	-36.00	34.47	-12.04	-37.04	25.00	Horizontal
5	718.4180	-43.32	-36.00	7.32	-4.01	-34.31	30.30	NA
6	774.7350	-34.29	-36.00	-1.71	-2.97	-34.22	31.25	NA

N28 145600 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 30M-1G HH



### Test Graph



○ Final Test

Suspected List								
NO.	Freq. [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Path [dB]	Air [dB]	Ant. Pol.
1	34.8550	-56.13	-36.00	20.13	-16.68	-39.58	22.90	Vertical
2	37.7680	-54.21	-36.00	18.21	-16.48	-39.56	23.08	Vertical
3	90.2000	-67.53	-36.00	31.53	-16.50	-38.71	22.21	Vertical
4	279.5400	-66.11	-36.00	30.11	-12.54	-37.04	24.50	Vertical
5	718.4180	-45.38	-36.00	9.38	-3.83	-34.31	30.48	NA
6	787.3570	-39.19	-36.00	3.19	-3.41	-34.23	30.82	NA

N28 145600 20M DFT-s-OFDM QPSK RB Size-1 RB Offset-1 SCS 15KHz 30M-1G HV