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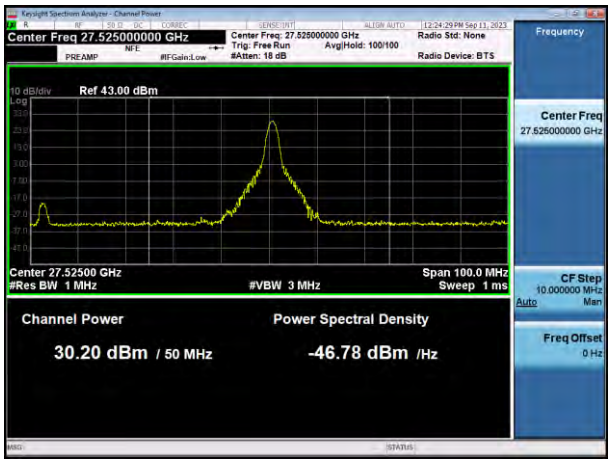
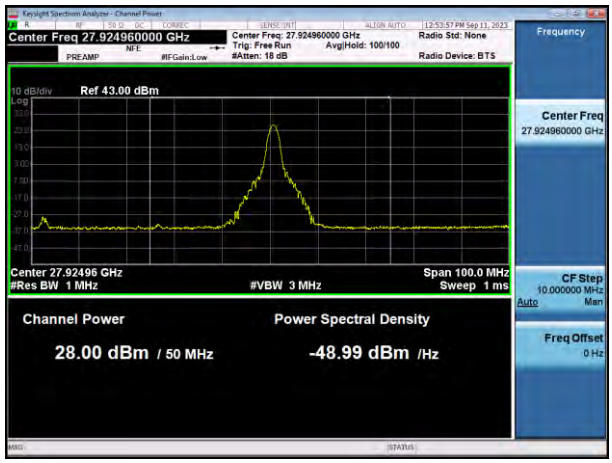
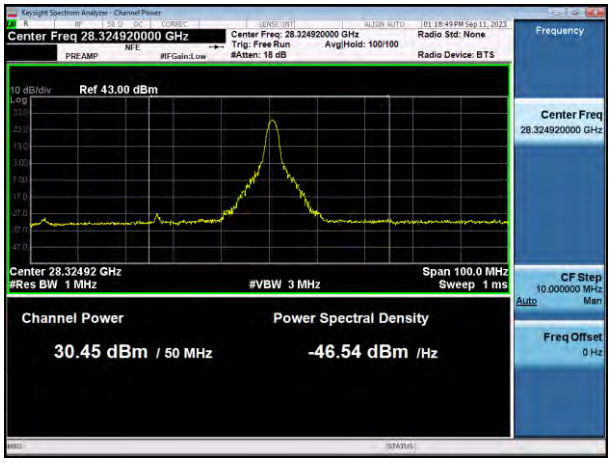
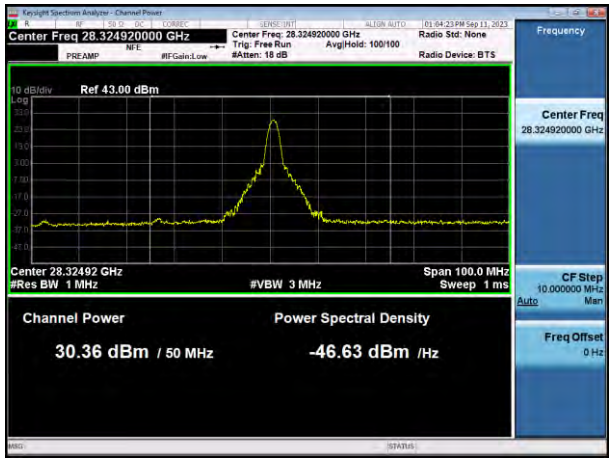
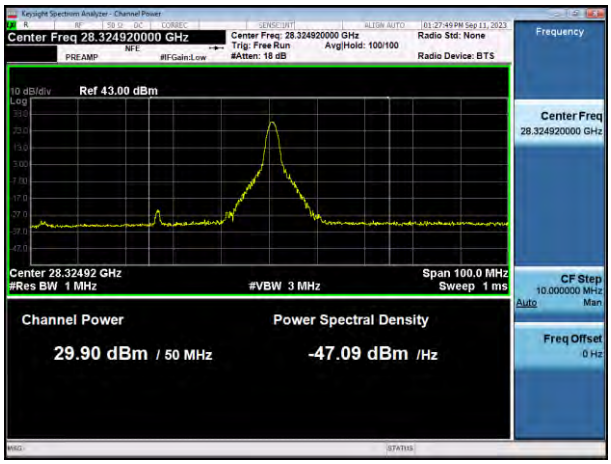
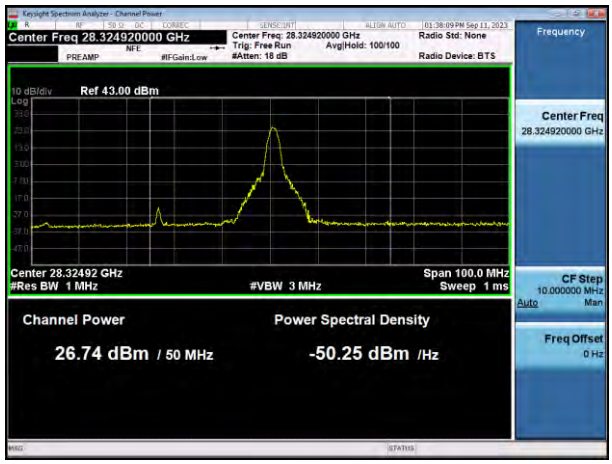
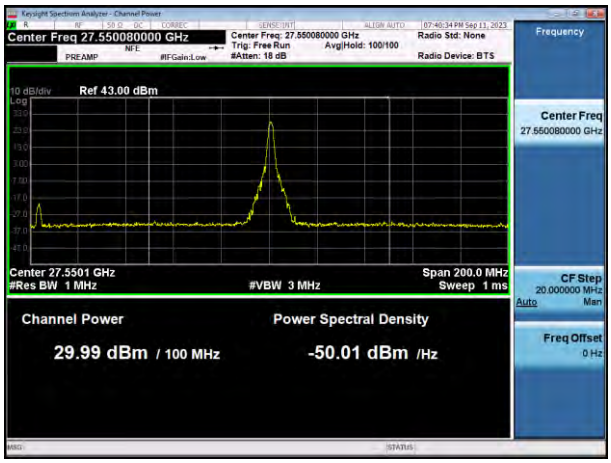
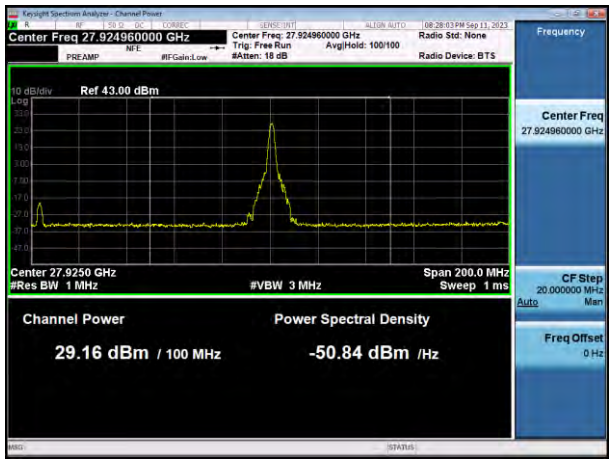
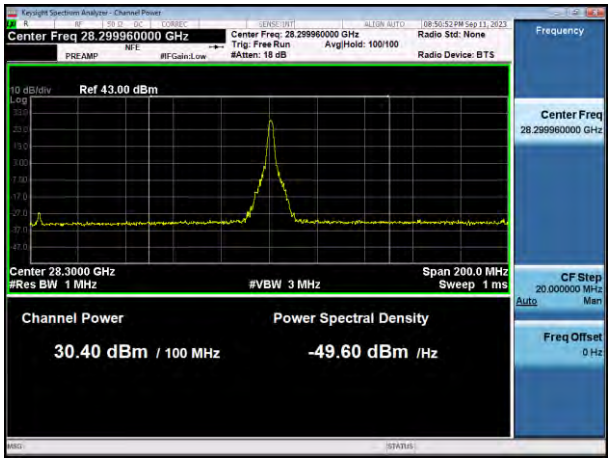
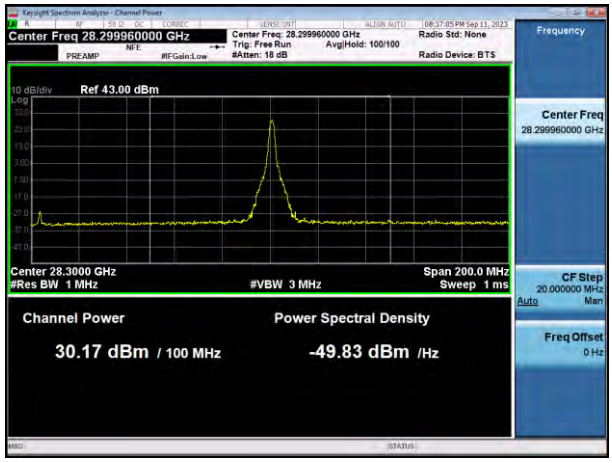
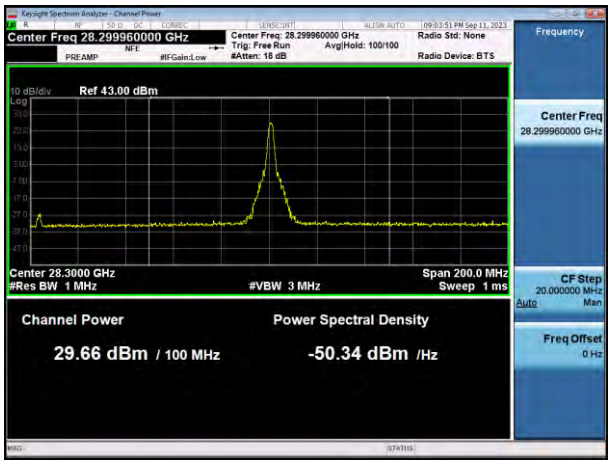
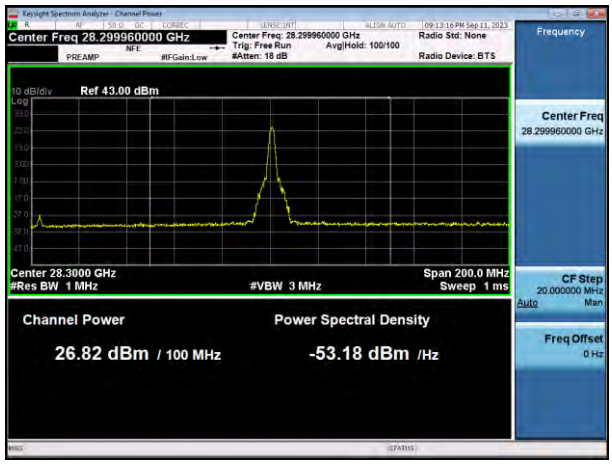
	
	
	

100 MHz, 1CC SISO Dual	
	
	
	

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	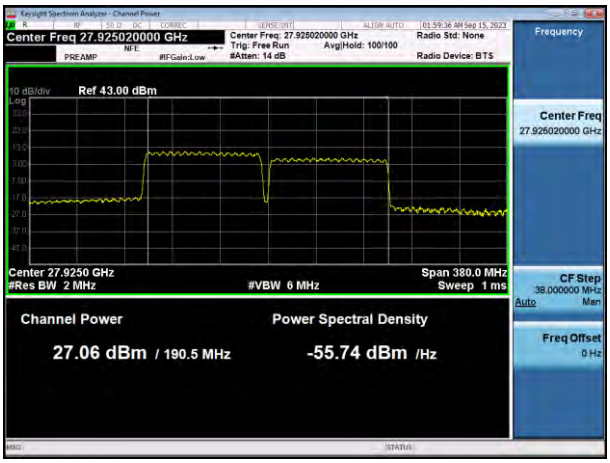
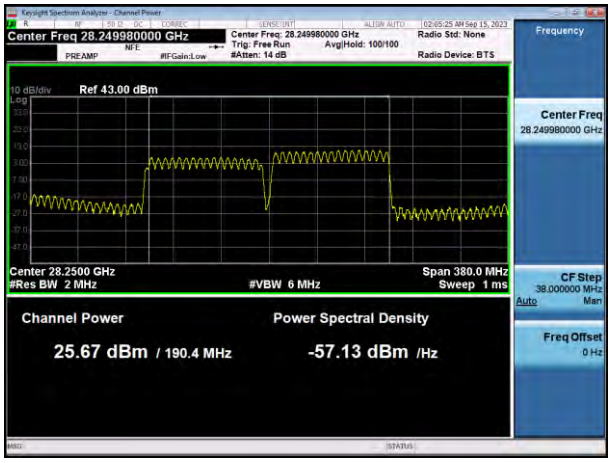	
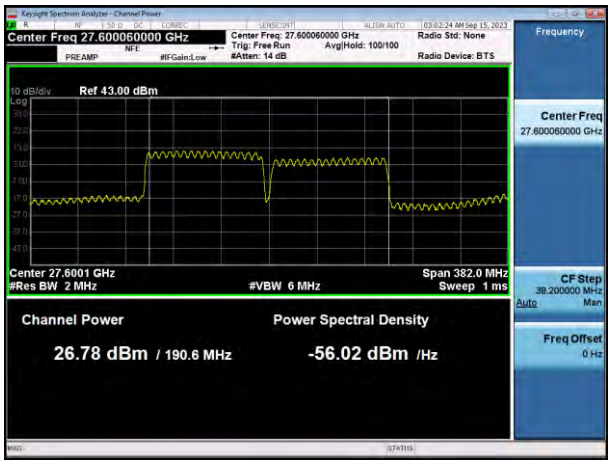	

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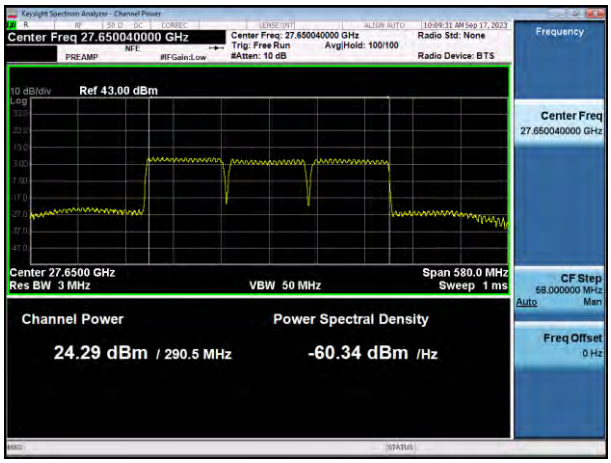
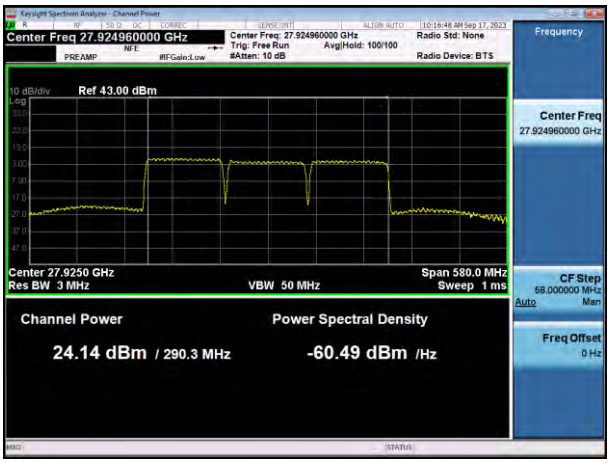
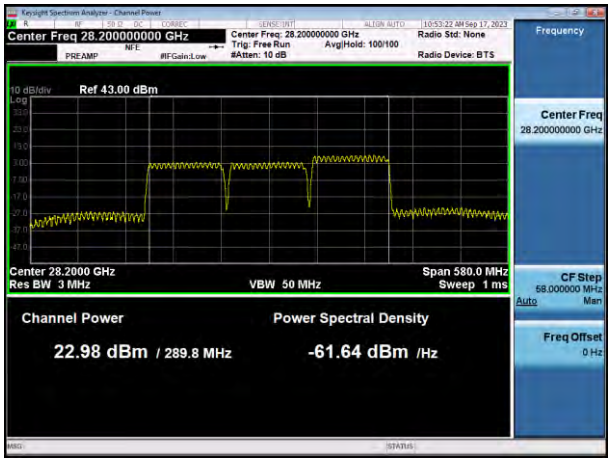
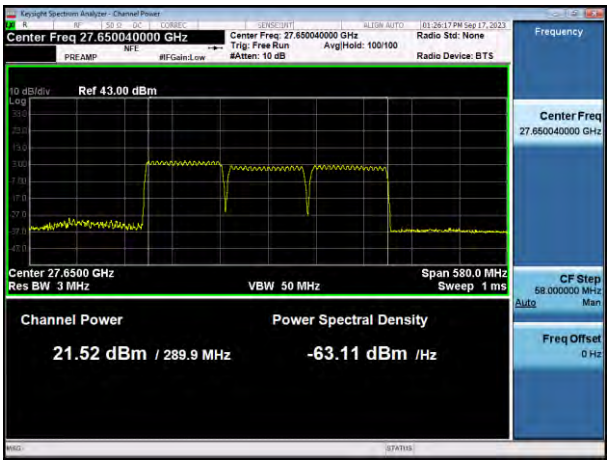
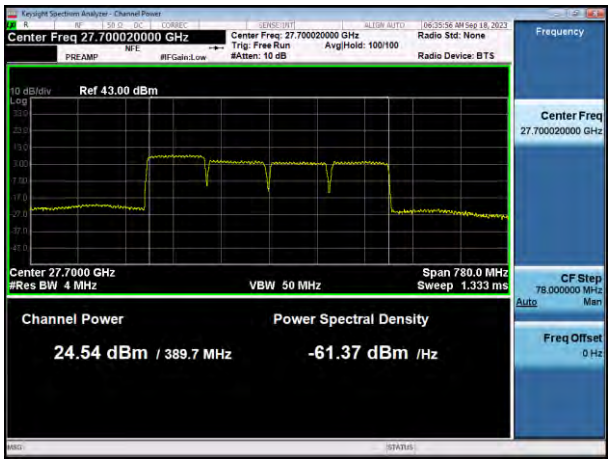
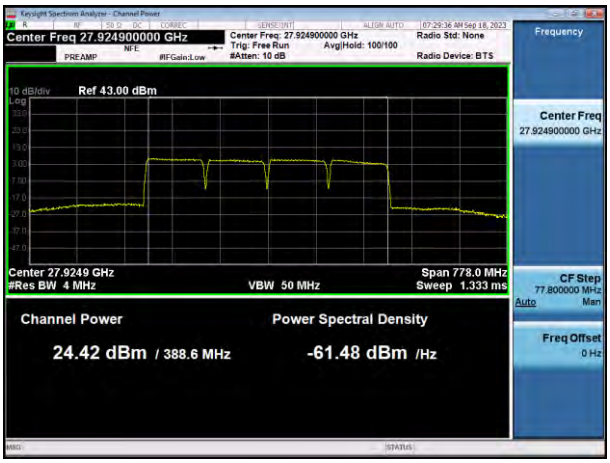
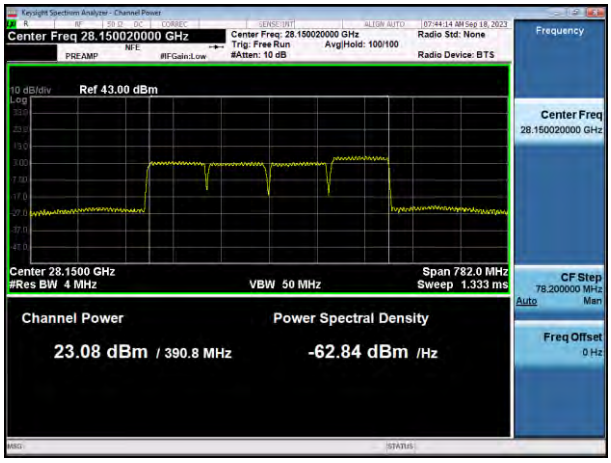
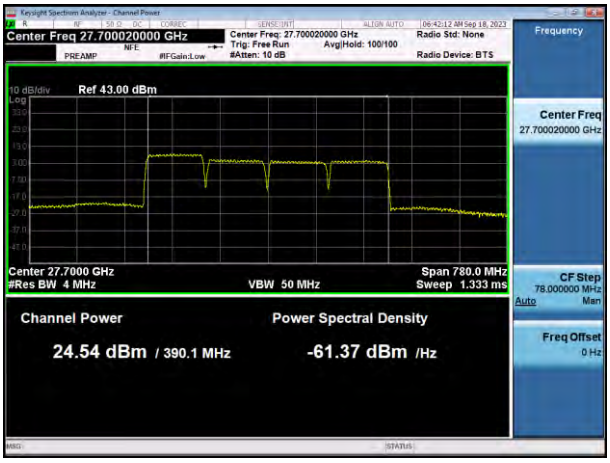
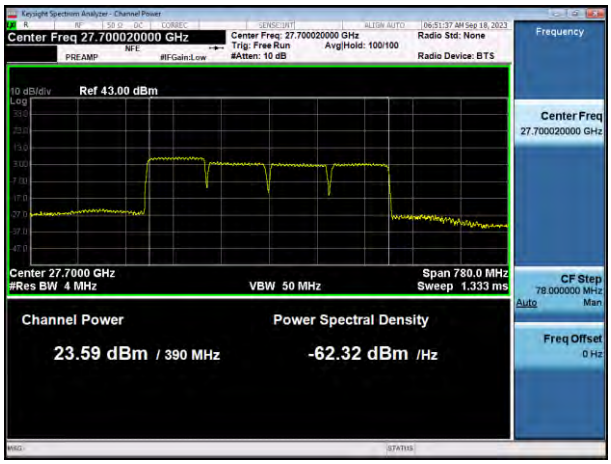
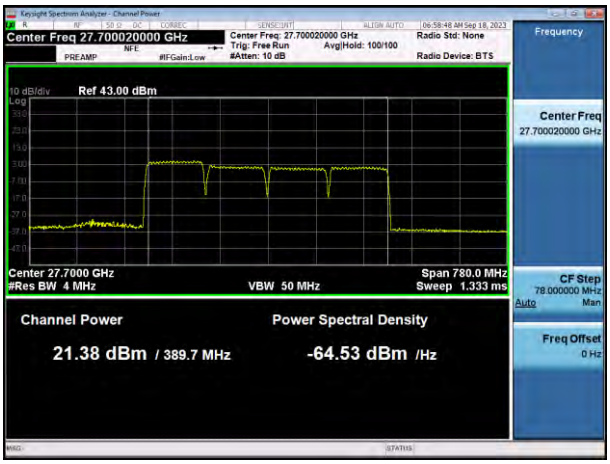
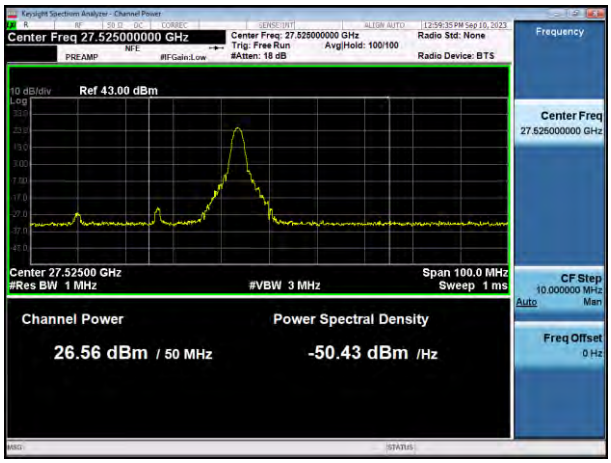
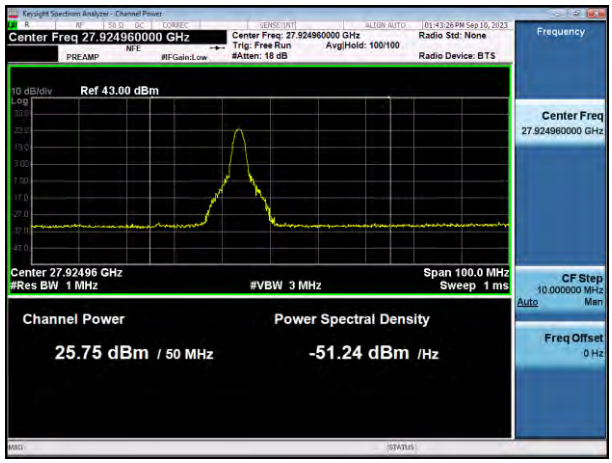
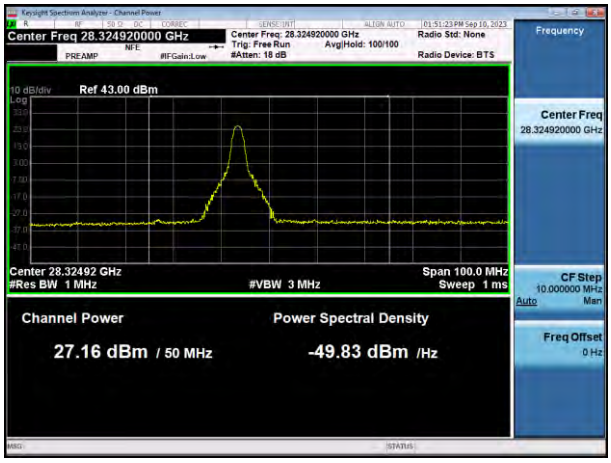
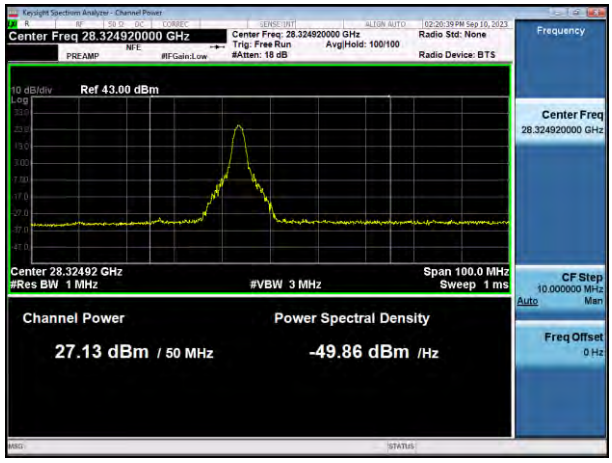
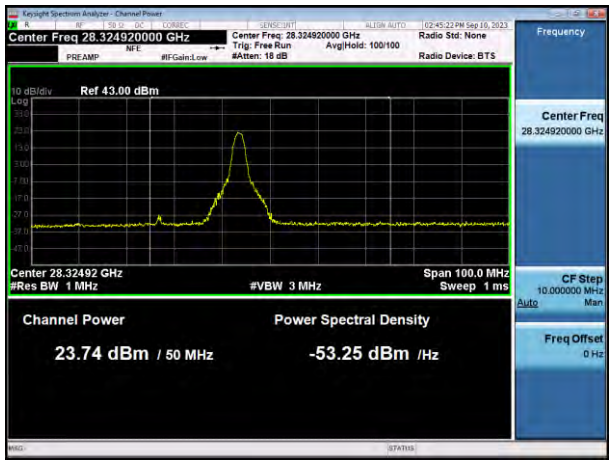
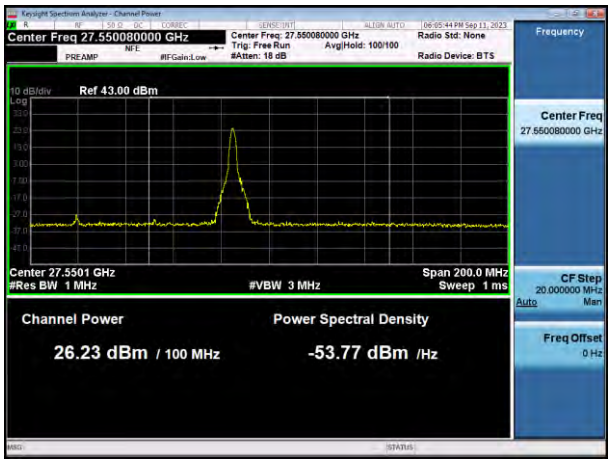
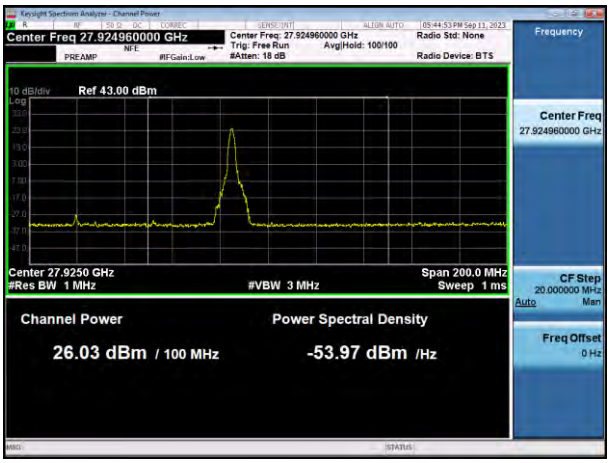
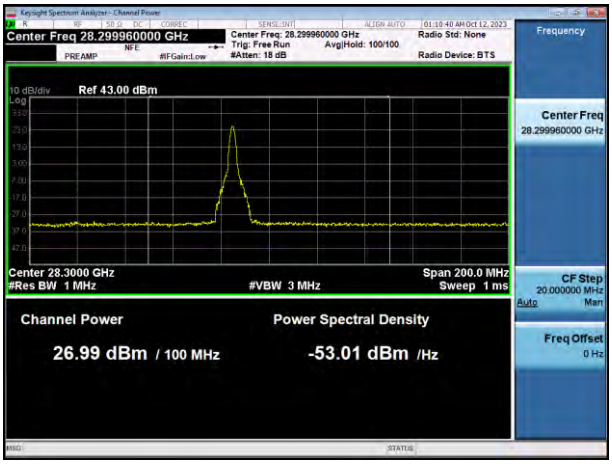
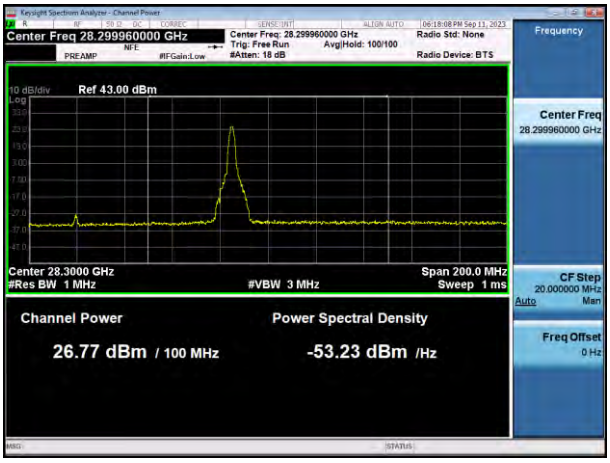
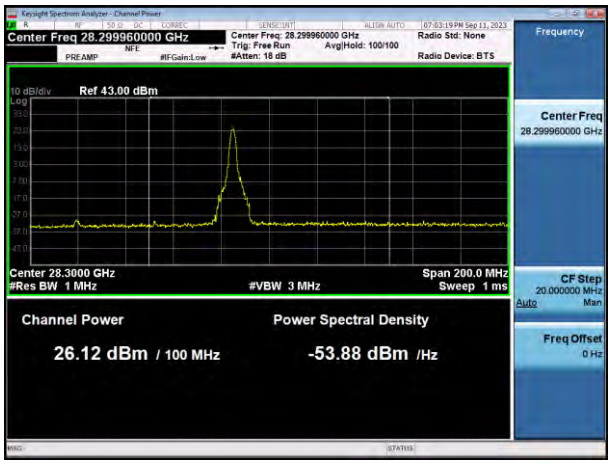
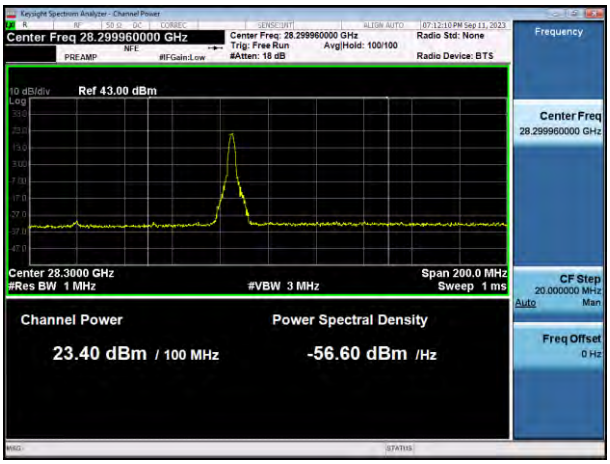
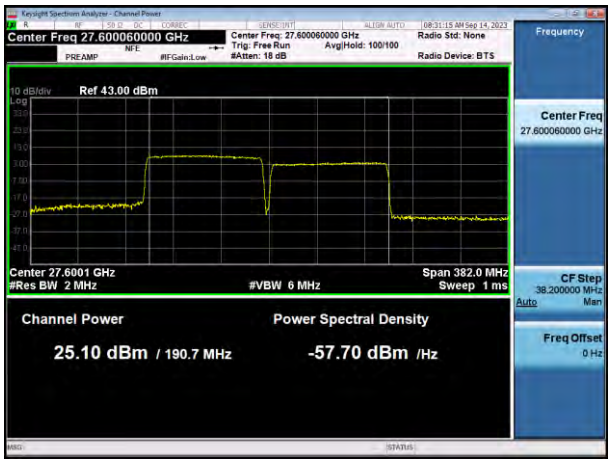
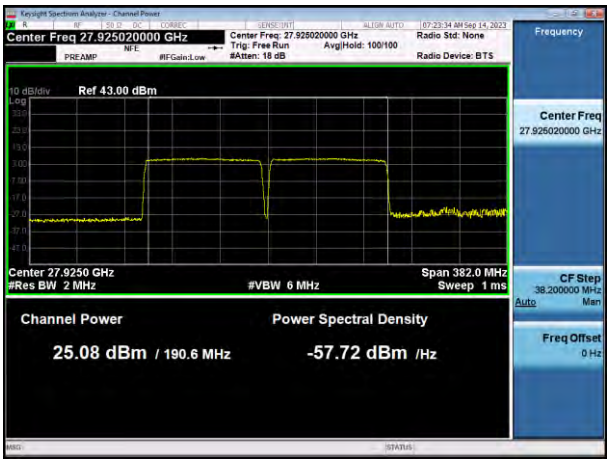
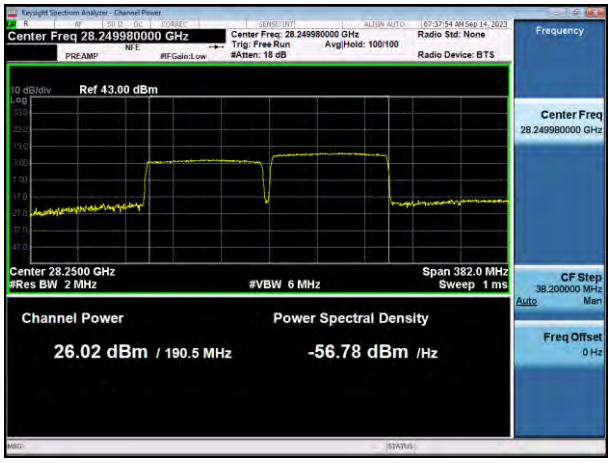
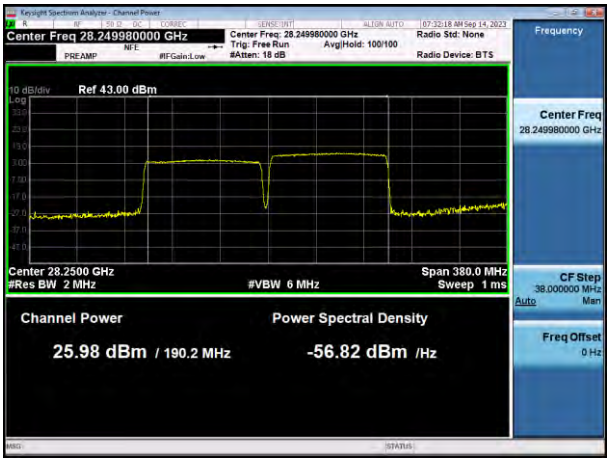
	
	
	

100 MHz, 4CC SISO Dual	
	
	
	

n261 Band Antenna 1 (N patch)

50 MHz, 1CC SISO	
	
	
	

100 MHz, 1CC SISO	
	
	
	

100 MHz, 2CC SISO	
	
	
	

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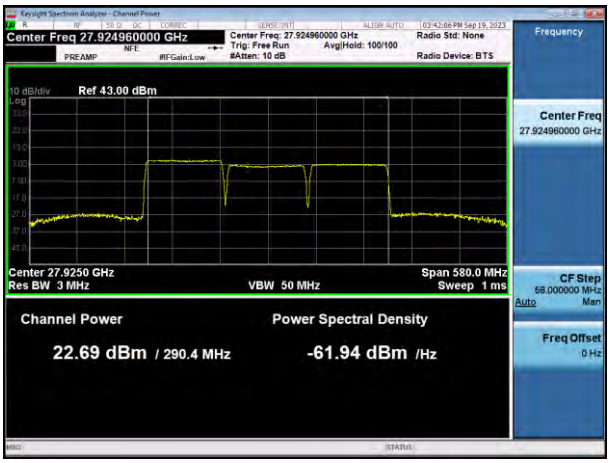
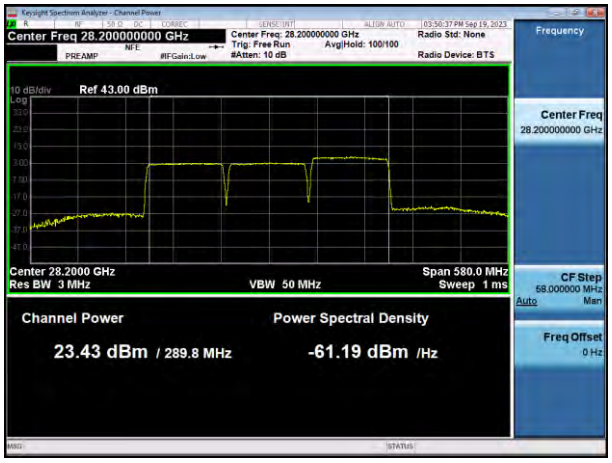
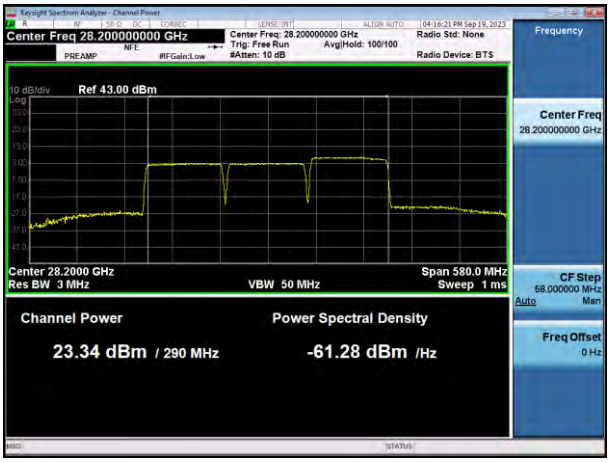
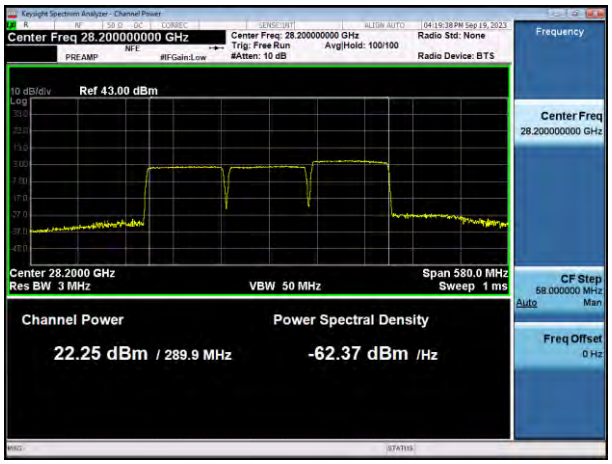
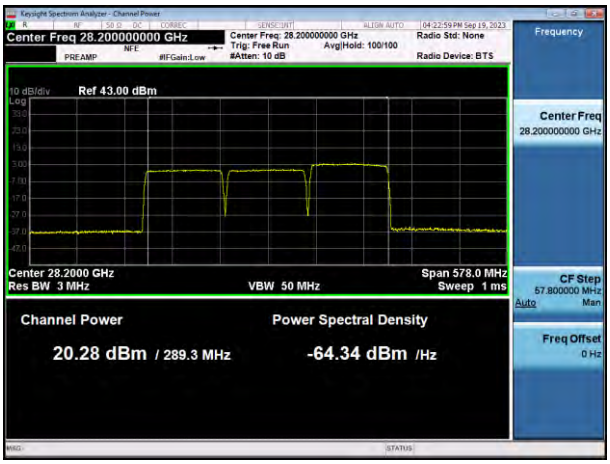
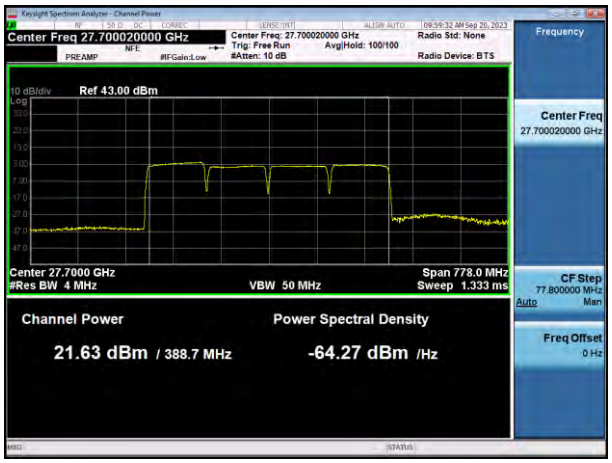
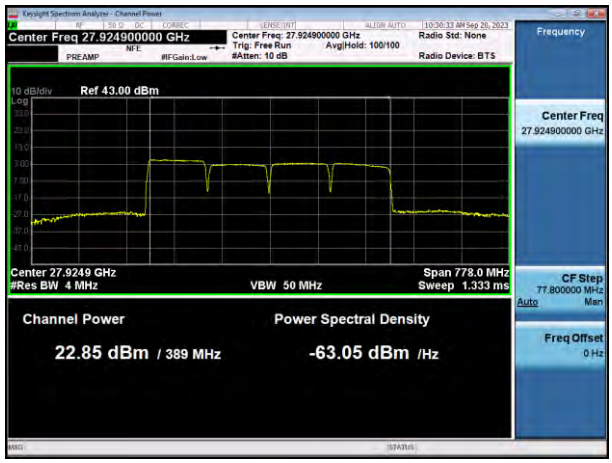
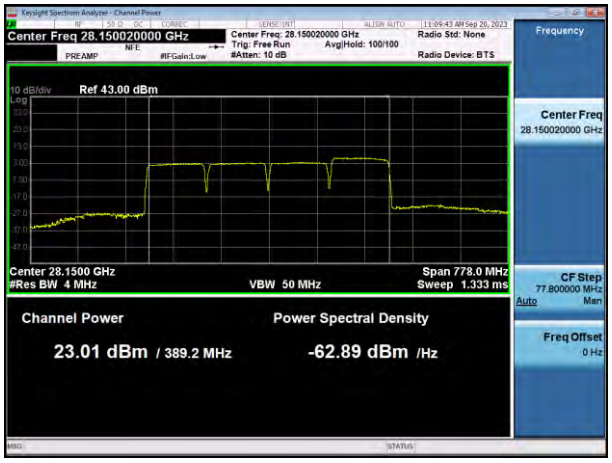
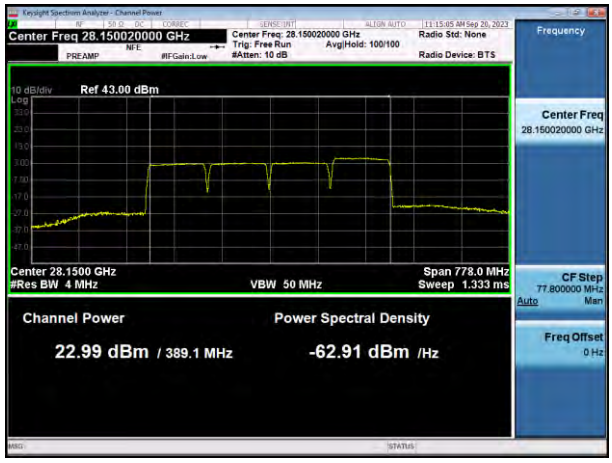
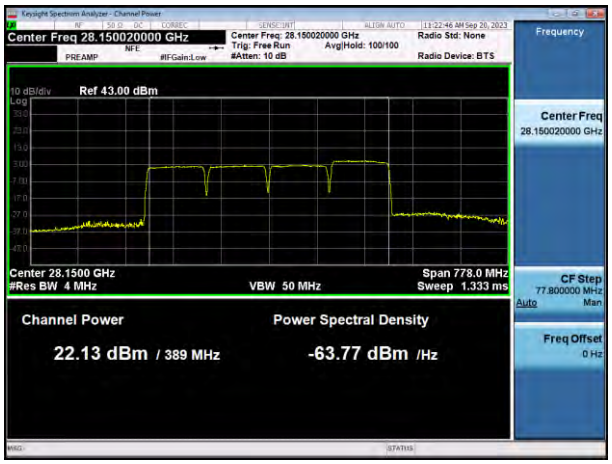
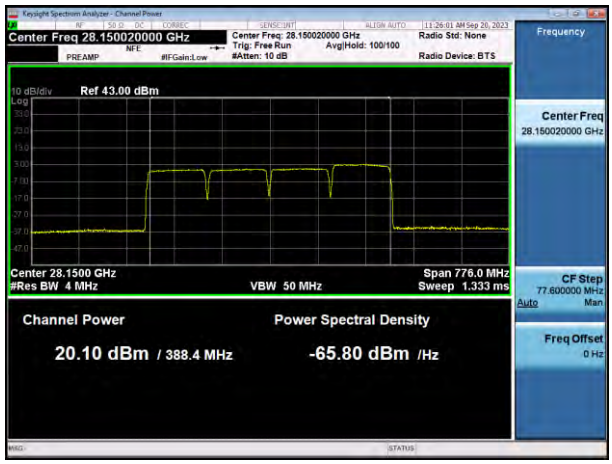
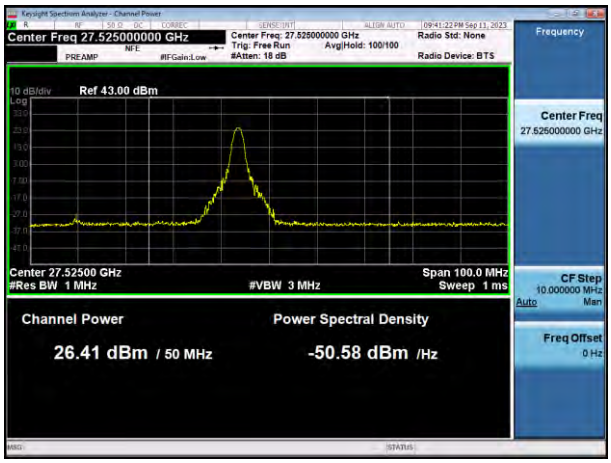
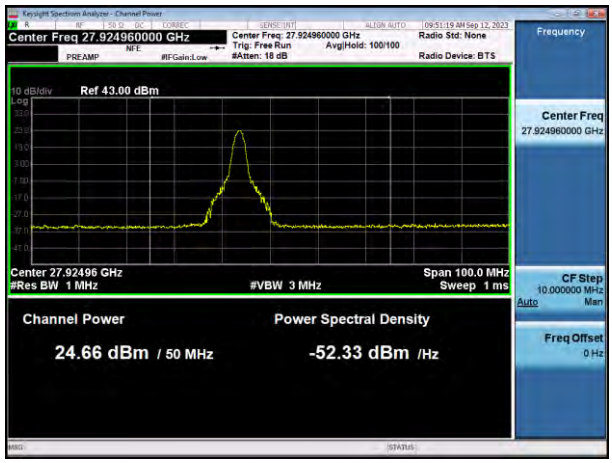
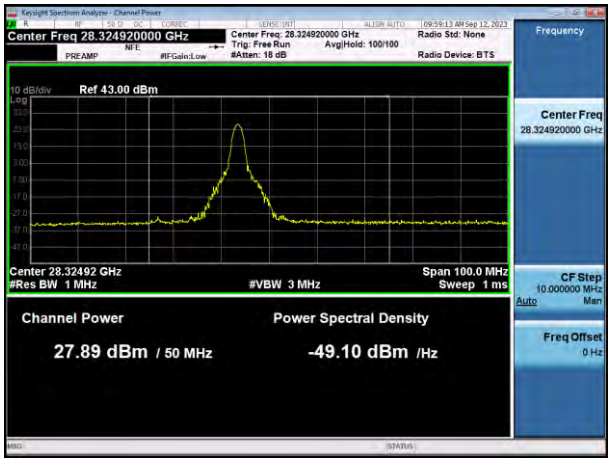
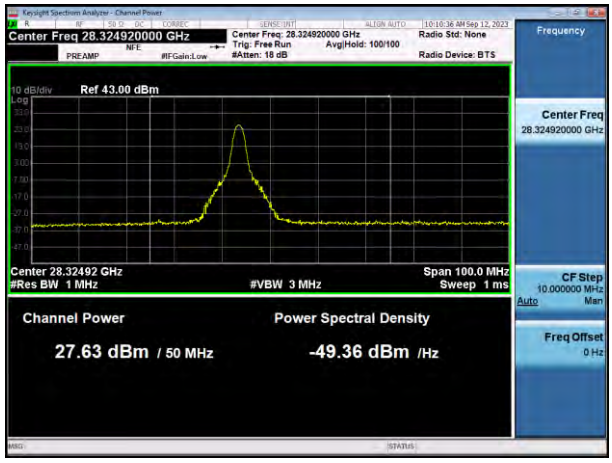
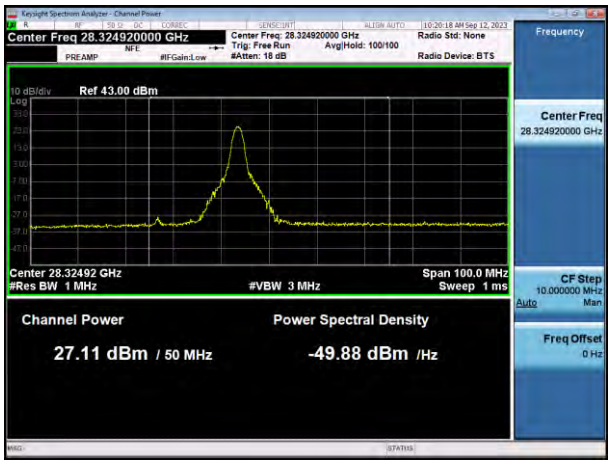
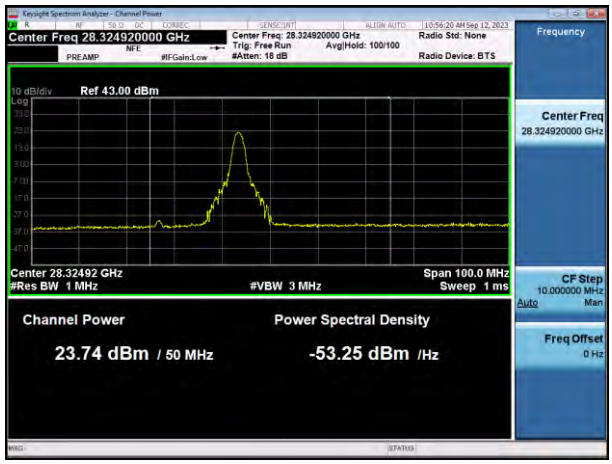
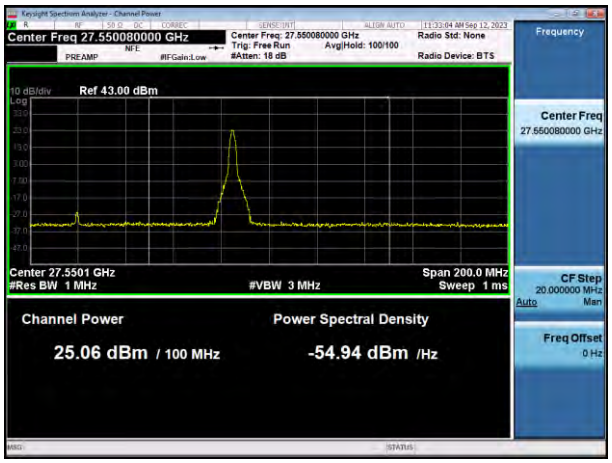
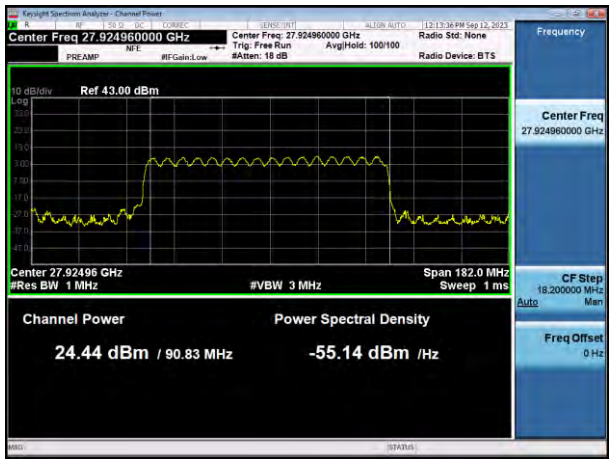
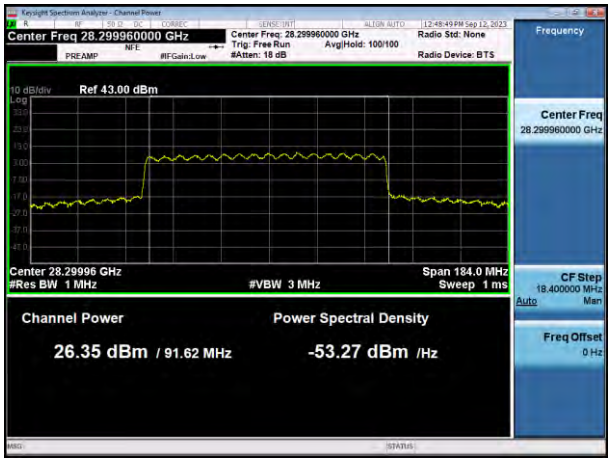
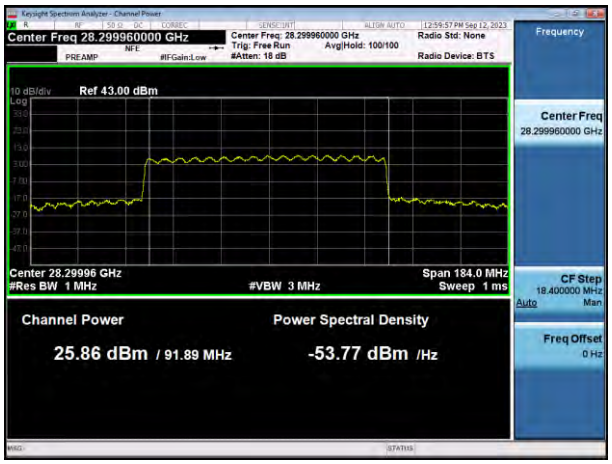
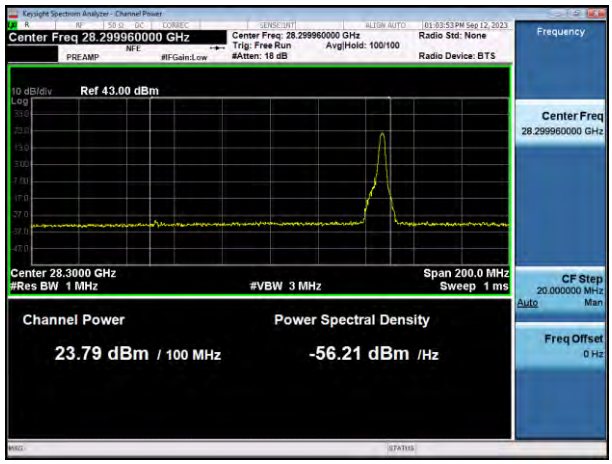
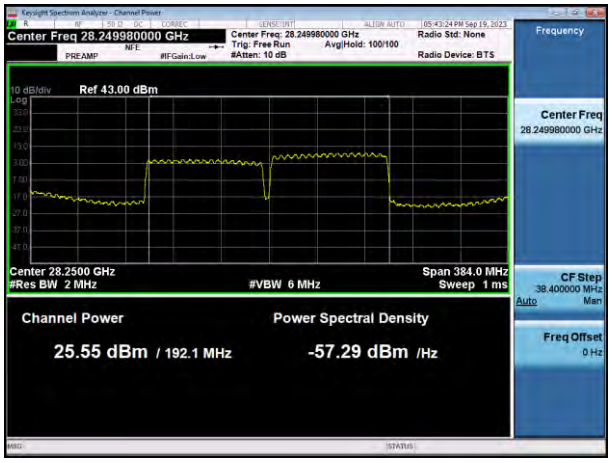
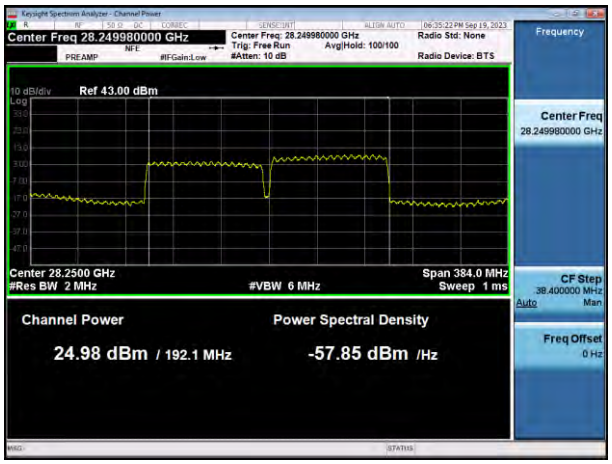
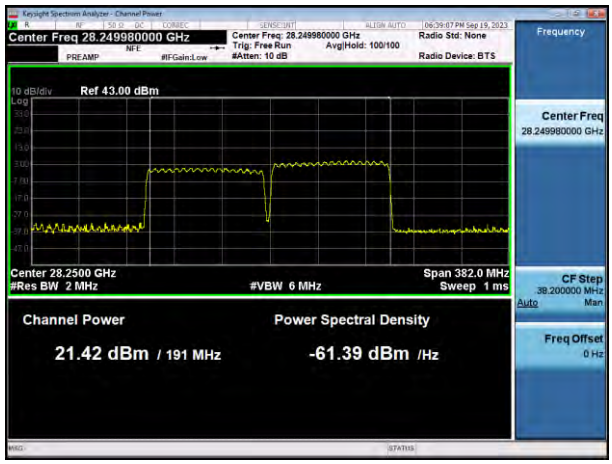
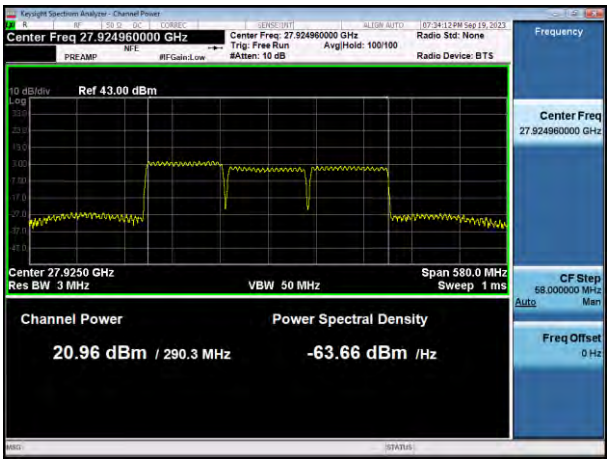
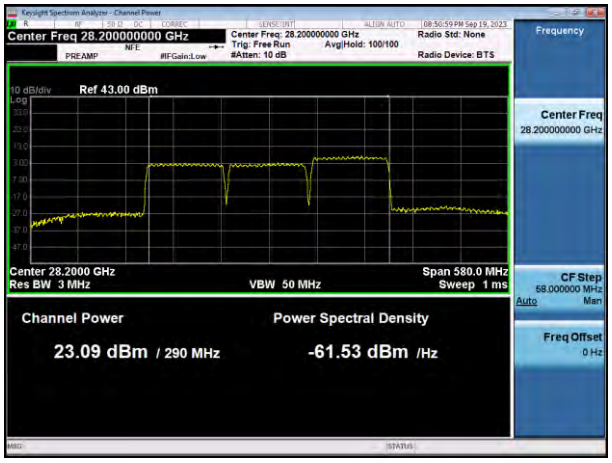
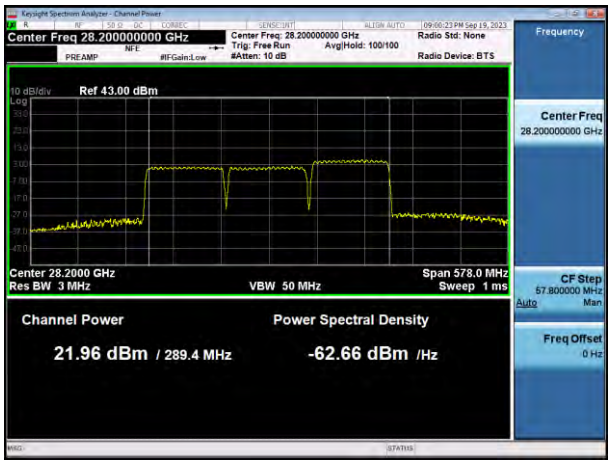
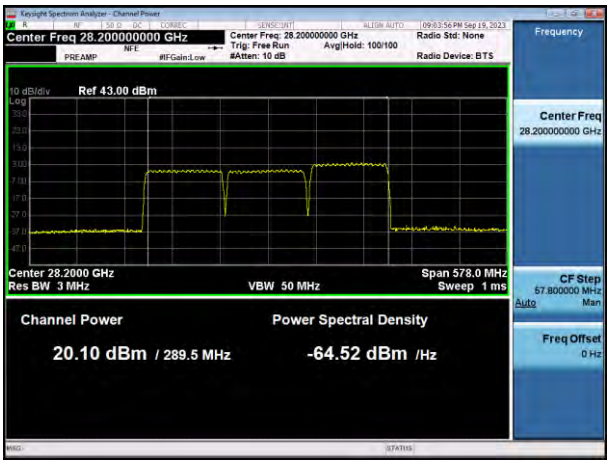
	
	
	

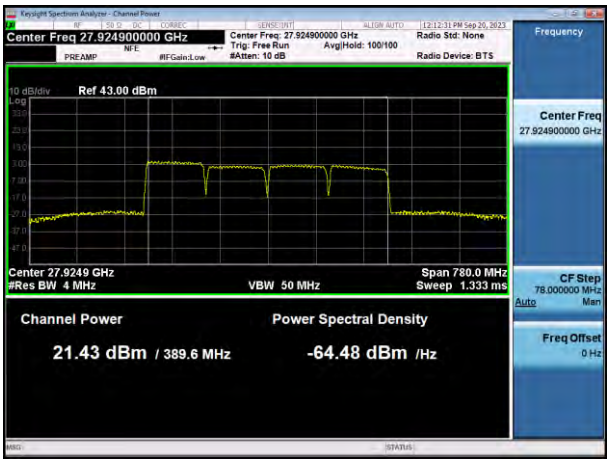
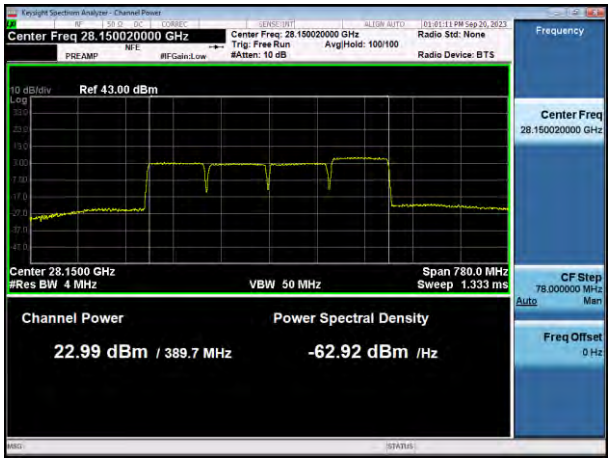
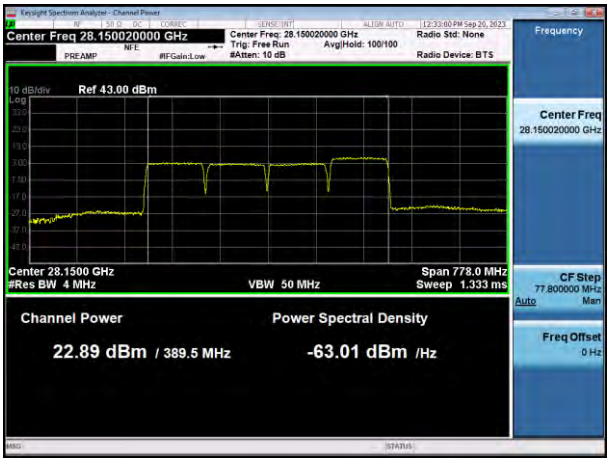
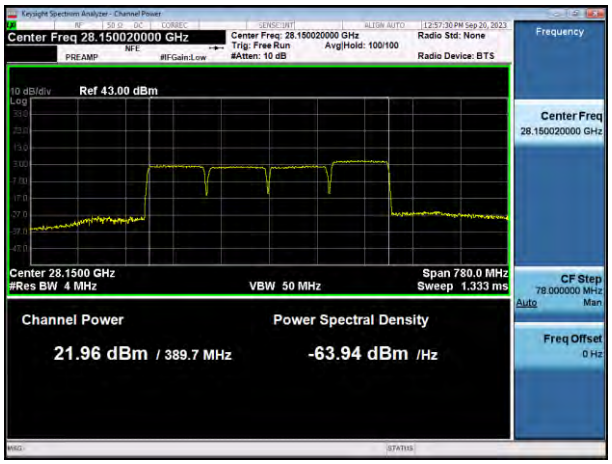
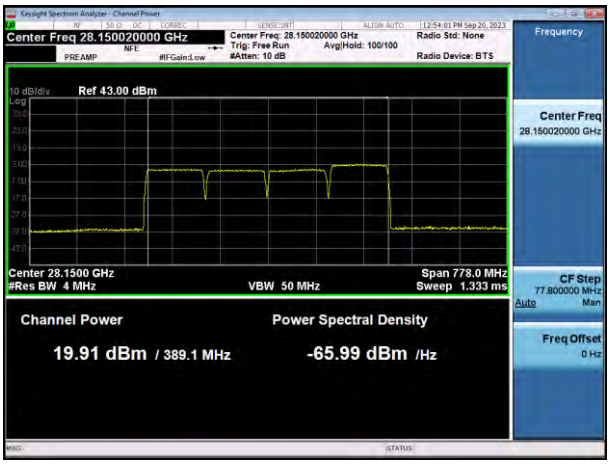
100 MHz, 4CC SISO	
	
	
	

50 MHz, 1CC SISO Dual	
	
	
	

100 MHz, 1CC SISO Dual	
	
	
	

100 MHz, 2CC SISO Dual	
	
	
	

100 MHz, 3CC SISO Dual	
	
	
	

100 MHz, 4CC SISO Dual	
	
	
	

5.3. BAND EDGE

Test Overview

All out of band emissions are measured in a radiated setup while the EUT is operating at maximum power, and at the appropriate frequencies. All modulations were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission is -13dBm/1MHz. However, in the bands immediately outside and adjacent to the licensee's frequency block, having a bandwidth equal to 10 percent of the channel bandwidth, the conductive power or the total radiated power of any emission shall be −5 dBm/MHz or lower.

FCC Rules

Test Requirements:

§ 30.203 Emission limits.

(a) The conductive power or the total radiated power of any emission outside a licensee's frequency block shall be −13 dBm/MHz or lower. However, in the bands immediately outside and adjacent to the licensee's frequency block, having a bandwidth equal to 10 percent of the channel bandwidth, the conductive power or the total radiated power of any emission shall be −5 dBm/MHz or lower.

(b)(1) Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater.

(2) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the licensee's frequency block edges as the design permits.

(3) The measurements of emission power can be expressed in peak or average values.

Test Procedures:

The measurement is performed in accordance with Section 5.7.3 of ANSI C63.26.

5.7.3 Out-of-band unwanted emissions measurements

a) Set the spectrum analyzer center frequency to the block, band, or channel edge frequency.

b) Set the span wide enough to capture the fundamental emission closest to the authorized block or band edge, and to include all modulation products that spill into the immediately adjacent frequency band. In some cases, it may be possible to set the center frequency and span so as to encompass the fundamental emission and the unwanted out-of-band (band-edge) emissions on either side of the authorized block, band, or channel. This can be accomplished with a single (slow) sweep, if adequate overload protection and sufficient dynamic range can be maintained.

c) Set the number of points in sweep ≥ 2 × span / RBW.

d) Sweep time should be auto for peak detection. For rms detection the sweep time should be set as

follows:

1), 2) Omitted

3) If the device cannot be configured to transmit continuously (duty cycle < 98%) and a free running sweep must be used, set the sweep time so that the averaging is performed over multiple on/off cycles by setting the sweep time > (number of points in sweep) × (transmitter period) (i.e., the transmit on-time + the off-time). The spectrum analyzer readings shall subsequently be corrected by [10 log (1/duty cycle)]. This assumes that the transmission period and duty cycle is relatively constant (duty cycle variation ≤ ±2%).

4) Omitted

e) The test report shall include the plots of the measuring instrument display and the measured data.

- The TRP measurement is performed in accordance with Section 4.4.2.4 of KDB 842590 v01r02 (2021-04).

4.4.2.4 Spherical Grid Method

a) Measure the antenna dimensions, i.e., depth (d), width (w), and height (h) (see Figure A.1 in Appendix A). If the antenna dimensions are not accessible use the mechanical dimensions of the entire device.

b) Calculate the spherical and cylindrical diameters (D and Dcyl) using Equations (A.1) and (A.2) in Appendix A in KDB 842590 v01r02.

c) For the highest frequency (smallest wavelength) of the frequency band measured, calculate the reference angular steps $\Delta\theta$ref and $\Delta\theta$ref using Equations (A.3) and (A.4) in Appendix A in KDB 842590 v01r02.

d) Set the grid spatial sampling step $\Delta\theta \leq \Delta\theta$ref for the vertical angle and $\Delta\theta \leq \Delta\theta$ref for the horizontal angle.

e) For each emission frequency, measure the total EIRP (sum of two orthogonal polarizations) on the selected grid.

f) For each emission frequency, calculate the TRP using weighted angular average value using numerical integration as described in Appendix B in KDB 842590 v01r02.

g) Compare measured TRP with the applicable TRP limit to make a pass/fail decision.

Test Results:

n258a Band Antenna 0 (M patch)

CCs active	BW	Mode	Frequency [MHz]	Channel	Beam Pol.	Modulation	Ant. Pol. [H/V]	RB Size/Offset	Band Edge [dBm]
1	50 MHz	SISO Dual	24275.04	Low	H+V	16QAM	H	1/0	-10.263※
		SISO	24275.04	Low	H	BPSK	H	32/0	-21.285
		SISO Dual	24424.92	High	H+V	BPSK	H	1/31	-13.163※
		SISO Dual	24424.92	High	H+V	16QAM	H	32/0	-11.965※
	100 MHz	SISO	24300.00	Low	H	QPSK	H	1/0	-14.913※
		SISO	24300.00	Low	H	BPSK	H	64/0	-21.214
		SISO Dual	24399.96	High	H+V	QPSK	H	1/65	-10.437※
		SISO Dual	24399.96	High	H+V	16QAM	H	64/0	-15.862※
2	100 MHz	SISO Dual	24350.04	Low	H+V	QPSK	H	1/0	-19.258
		SISO Dual	24350.04	Low	H+V	QPSK	H	64/0	-15.080
		SISO Dual	24350.04	High	H+V	QPSK	H	1/65	-17.990
		SISO Dual	24350.04	High	H+V	BPSK	H	64/0	-17.002

※ **Note :** Limit: -5 dBm

n258a Band Antenna 1 (N patch)

CCs active	BW	Mode	Frequency [MHz]	Channel	Beam Pol.	Modulation	Ant. Pol. [H/V]	RB Size/Offset	Band Edge [dBm]
1	50 MHz	SISO	24275.04	Low	V	16QAM	H	1/0	-10.941※
		SISO	24275.04	Low	V	QPSK	H	32/0	-18.301
		SISO	24424.92	High	V	64QAM	H	1/31	-12.070※
		SISO Dual	24424.92	High	H+V	QPSK	H	32/0	-15.470※
	100 MHz	SISO	24300.00	Low	V	BPSK	H	1/0	-10.997※
		SISO	24300.00	Low	V	QPSK	H	64/0	-20.505
		SISO	24399.96	High	V	16QAM	H	1/65	-13.963※
		SISO Dual	24399.96	High	H+V	QPSK	H	64/0	-19.267
2	100 MHz	SISO	24350.04	Low	V	64QAM	H	1/0	-16.996
		SISO Dual	24350.04	Low	H+V	BPSK	H	64/0	-16.363
		SISO	24350.04	High	V	64QAM	H	1/65	-17.327
		SISO Dual	24350.04	High	H+V	BPSK	H	64/0	-20.049

※ **Note :** Limit: -5 dBm

n258b Band Antenna 0 (M patch)

CCs active	BW	Mode	Frequency [MHz]	Channel	Beam Pol.	Modulation	Ant. Pol. [H/V]	RB Size/Offset	Band Edge [dBm]
1	50 MHz	SISO Dual	24775.08	Low	H+V	QPSK	H	1/0	-9.905※
		SISO Dual	24775.08	Low	H+V	BPSK	H	32/0	-19.642
		SISO Dual	25224.96	High	H+V	QPSK	H	1/31	-9.359※
		SISO Dual	25224.96	High	H+V	16QAM	H	32/0	-15.054※
	100 MHz	SISO Dual	24800.04	Low	H+V	BPSK	H	1/0	-12.517※
		SISO Dual	24800.04	Low	H+V	BPSK	H	64/0	-19.585
		SISO Dual	25200.00	High	H+V	16QAM	H	1/65	-8.749※
		SISO Dual	25200.00	High	H+V	16QAM	H	64/0	-18.058
2	100 MHz	SISO	24850.02	Low	H	64QAM	H	1/0	-17.960
		SISO Dual	24850.02	Low	H+V	BPSK	H	64/0	-18.295
		SISO Dual	25150.02	High	H+V	64QAM	H	1/65	-17.304
		SISO Dual	25150.02	High	H+V	QPSK	H	64/0	-20.955
3	100 MHz	SISO Dual	24900.00	Low	H+V	BPSK	H	1/0	-17.477
		SISO	24900.00	Low	V	BPSK	H	64/0	-30.152
		SISO Dual	25100.04	High	H+V	64QAM	H	1/65	-20.354
		SISO Dual	25100.04	High	H+V	QPSK	H	64/0	-27.990
4	100 MHz	SISO Dual	24949.98	Low	H+V	16QAM	H	1/0	-18.162
		SISO	24949.98	Low	V	BPSK	H	64/0	-29.465
		SISO Dual	25050.06	High	H+V	16QAM	H	1/65	-19.571
		SISO Dual	25050.06	High	H+V	QPSK	H	64/0	-27.081

※ **Note :** Limit: -5 dBm

n258b Band Antenna 1 (N patch)

CCs active	BW	Mode	Frequency [MHz]	Channel	Beam Pol.	Modulation	Ant. Pol. [H/V]	RB Size/Offset	Band Edge [dBm]
1	50 MHz	SISO Dual	24775.08	Low	H+V	16QAM	H	1/0	-13.220※
		SISO	24775.08	Low	V	BPSK	H	32/0	-22.927
		SISO	25224.96	High	H	BPSK	V	1/31	-15.113※
		SISO Dual	25224.96	High	H+V	QPSK	H	32/0	-19.673
	100 MHz	SISO	24800.04	Low	V	16QAM	H	1/0	-16.630
		SISO Dual	24800.04	Low	H+V	BPSK	H	64/0	-23.972
		SISO	25200	High	V	BPSK	H	1/65	-14.739※
		SISO Dual	25200	High	H+V	16QAM	H	64/0	-23.976
2	100 MHz	SISO	24850.02	Low	V	BPSK	H	1/0	-19.753
		SISO Dual	24850.02	Low	H+V	QPSK	H	64/0	-19.286
		SISO Dual	25150.02	High	H+V	64QAM	H	1/65	-17.743
		SISO Dual	25150.02	High	H+V	QPSK	H	64/0	-21.813
3	100 MHz	SISO	24900.00	Low	V	64QAM	H	1/0	-20.712
		SISO	24900.00	Low	V	BPSK	H	64/0	-33.997
		SISO Dual	25100.04	High	H+V	BPSK	H	1/65	-19.381
		SISO	25100.04	High	H	BPSK	V	64/0	-30.628
4	100 MHz	SISO	24949.98	Low	V	16QAM	H	1/0	-21.811
		SISO	24949.98	Low	V	BPSK	H	64/0	-33.485
		SISO	25050.06	High	V	QPSK	H	1/65	-22.363
		SISO	25050.06	High	H	BPSK	V	64/0	-30.531

※ **Note :** Limit: -5 dBm

n260 Band Antenna 0 (M patch)

CCs active	BW	Mode	Frequency [MHz]	Channel	Beam Pol.	Modulation	Ant. Pol. [H/V]	RB Size/Offset	Band Edge [dBm]
1	50 MHz	SISO Dual	37025.04	Low	H+V	BPSK	V	1/0	-11.993※
		SISO	37025.04	Low	H	BPSK	V	32/0	-20.815
		SISO	39975	High	H	16QAM	H	1/31	-9.255※
		SISO Dual	39975	High	H+V	16QAM	H	32/0	-11.085※
	100 MHz	SISO	37050.00	Low	H	16QAM	V	1/0	-14.104※
		SISO Dual	37050.00	Low	H+V	BPSK	V	64/0	-20.528
		SISO	39949.92	High	H	QPSK	H	1/65	-11.168※
		SISO Dual	39949.92	High	H+V	QPSK	H	64/0	-16.081
2	100 MHz	SISO Dual	37099.98	Low	H+V	BPSK	V	1/0	-16.129
		SISO Dual	37099.98	Low	H+V	BPSK	V	64/0	-18.465
		SISO Dual	39899.94	High	H+V	16QAM	H	1/65	-16.265
		SISO	39899.94	High	H	QPSK	H	64/0	-18.675
3	100 MHz	SISO Dual	37149.96	Low	H+V	16QAM	V	1/0	-17.839
		SISO	37149.96	Low	H	BPSK	V	64/0	-20.456
		SISO Dual	39849.96	High	H+V	BPSK	H	1/65	-19.468
		SISO	39849.96	High	H	BPSK	H	64/0	-20.113
4	100 MHz	SISO Dual	37199.94	Low	H+V	16QAM	V	1/0	-17.202
		SISO Dual	37199.94	Low	H+V	BPSK	V	64/0	-24.121
		SISO Dual	39799.98	High	H+V	QPSK	H	1/65	-18.987
		SISO Dual	39799.98	High	H+V	QPSK	H	64/0	-20.335

※ **Note :** Limit: -5 dBm

n260 Band Antenna 1 (N patch)

CCs active	BW	Mode	Frequency [MHz]	Channel	Beam Pol.	Modulation	Ant. Pol. [H/V]	RB Size/Offset	Band Edge [dBm]
1	50 MHz	SISO	37025.04	Low	V	QPSK	H	1/0	-9.337※
		SISO	37025.04	Low	V	BPSK	H	32/0	-21.702
		SISO	39975	High	H	16QAM	V	1/31	-10.856※
		SISO Dual	39975	High	H+V	BPSK	V	32/0	-16.981
	100 MHz	SISO	37050.00	Low	V	QPSK	H	1/0	-12.513※
		SISO	37050.00	Low	V	BPSK	H	64/0	-21.096※
		SISO	39949.92	High	H	QPSK	V	1/65	-11.270※
		SISO Dual	39949.92	High	H+V	BPSK	V	64/0	-18.508
2	100 MHz	SISO	37099.98	Low	H	BPSK	V	1/0	-16.231
		SISO	37099.98	Low	H	BPSK	V	64/0	-15.832
		SISO Dual	39899.94	High	H+V	64QAM	V	1/65	-15.736
		SISO Dual	39899.94	High	H+V	BPSK	V	64/0	-17.987
3	100 MHz	SISO	37149.96	Low	H	BPSK	V	1/0	-18.688
		SISO Dual	37149.96	Low	H+V	BPSK	H	64/0	-25.356
		SISO Dual	39849.96	High	H+V	64QAM	V	1/65	-16.496
		SISO Dual	39849.96	High	H+V	BPSK	V	64/0	-21.859
4	100 MHz	SISO Dual	37199.94	Low	H+V	BPSK	H	1/0	-17.951
		SISO Dual	37199.94	Low	H+V	BPSK	H	64/0	-22.871
		SISO Dual	39799.98	High	H+V	16QAM	V	1/65	-16.647
		SISO	39799.98	High	H	BPSK	V	64/0	-19.219

※ **Note :** Limit: -5 dBm

n261 Band Antenna 0 (M patch)

CCs active	BW	Mode	Frequency [MHz]	Channel	Beam Pol.	Modulation	Ant. Pol. [H/V]	RB Size/Offset	Band Edge [dBm]
1	50 MHz	SISO Dual	27525.00	Low	H+V	QPSK	V	1/0	-8.786※1
		SISO Dual	27525.00	Low	H+V	BPSK	V	32/0	-16.026
		SISO	28324.92	High	H	16QAM	H	1/31	-9.837※1
		SISO Dual	28324.92	High	H+V	QPSK	V	32/0	-12.604※1
	100 MHz	SISO	27550.08	Low	H	16QAM	V	1/0	-12.004※1
		SISO	27550.08	Low	H	BPSK	V	64/0	-19.006
		SISO Dual	28299.96	High	H+V	16QAM	V	1/65	-10.952※1
		SISO Dual	28299.96	High	H+V	QPSK	V	64/0	-16.681
2	100 MHz	SISO Dual	27600.06	Low	H+V	16QAM	V	1/0	-16.914
		SISO Dual	27600.06	Low	H+V	BPSK	V	64/0	-10.540※2
		SISO Dual	28249.98	High	H+V	16QAM	V	1/65	-16.582
		SISO Dual	28249.98	High	H+V	BPSK	V	64/0	-16.366
3	100 MHz	SISO Dual	27650.04	Low	H+V	QPSK	V	1/0	-16.627
		SISO Dual	27650.04	Low	H+V	16QAM	V	64/0	-14.501※1
		SISO	28200	High	H	64QAM	H	1/65	-19.572
		SISO Dual	28200	High	H+V	BPSK	V	64/0	-22.155
4	100 MHz	SISO Dual	27700.02	Low	H+V	BPSK	V	1/0	-15.508
		SISO Dual	27700.02	Low	H+V	QPSK	V	64/0	-23.215
		SISO Dual	28150.02	High	H+V	QPSK	V	1/65	-17.414
		SISO Dual	28150.02	High	H+V	BPSK	V	64/0	-25.572

※1 **Note :** Limit: -5 dBm
※2 **Note :** TRP: -22.350 dBm

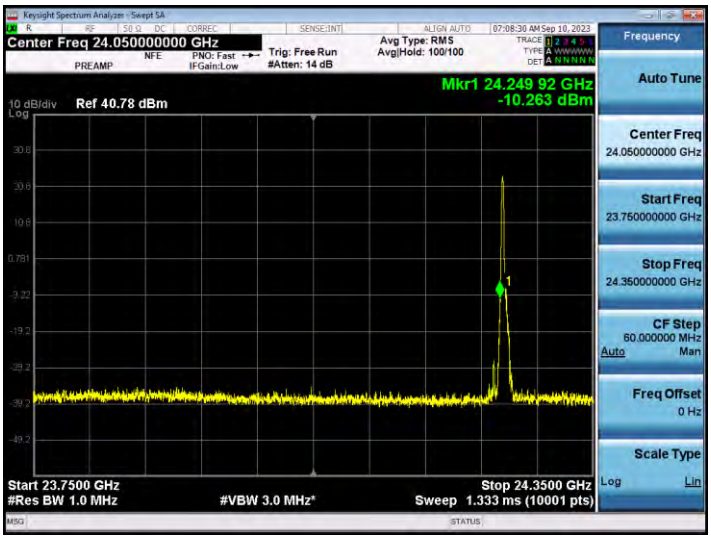
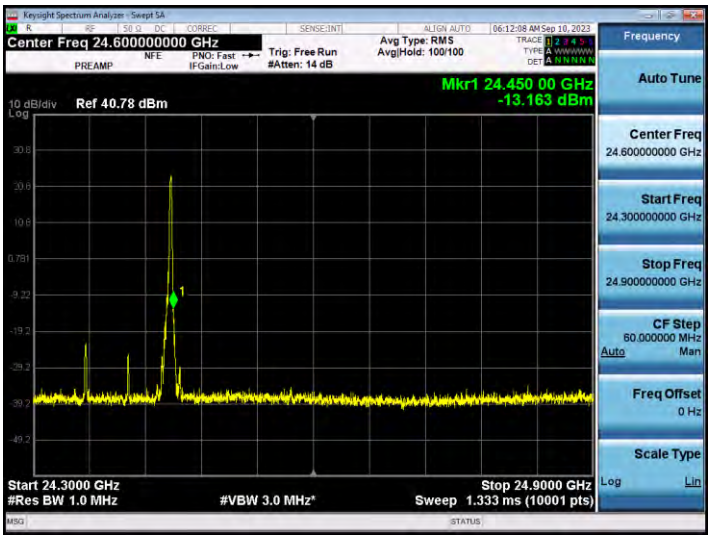
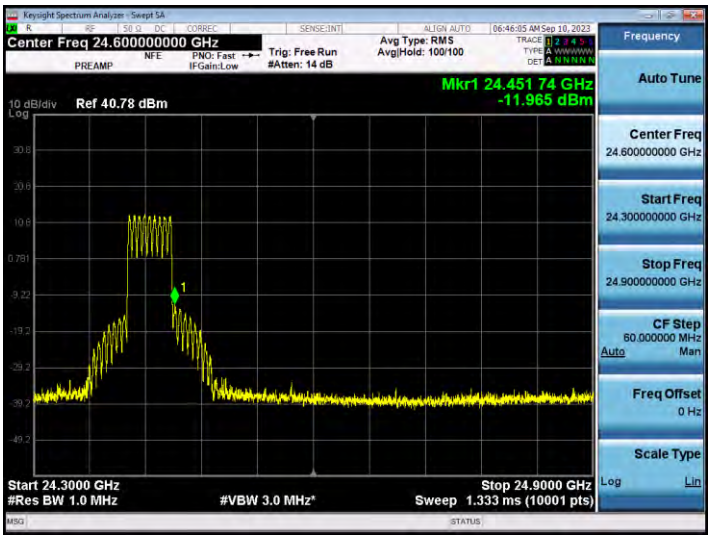
n261 Band Antenna 1 (N patch)

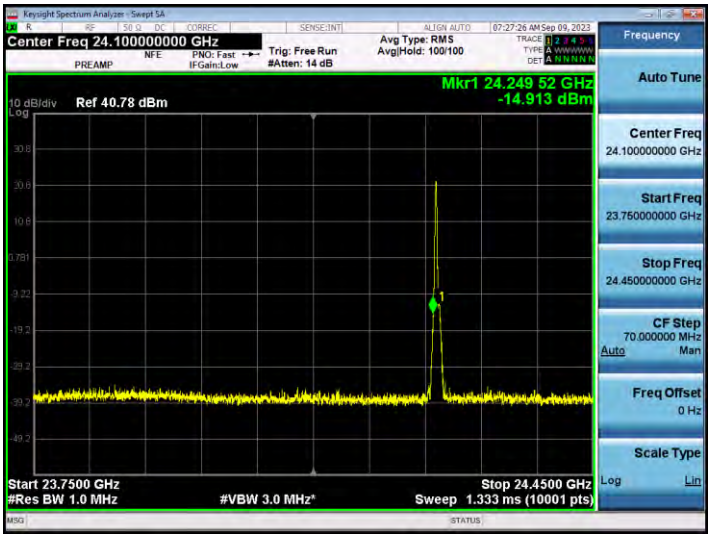
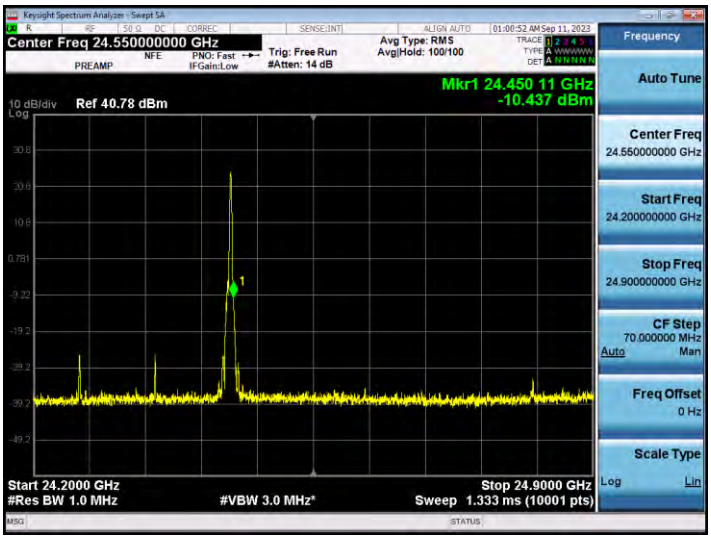
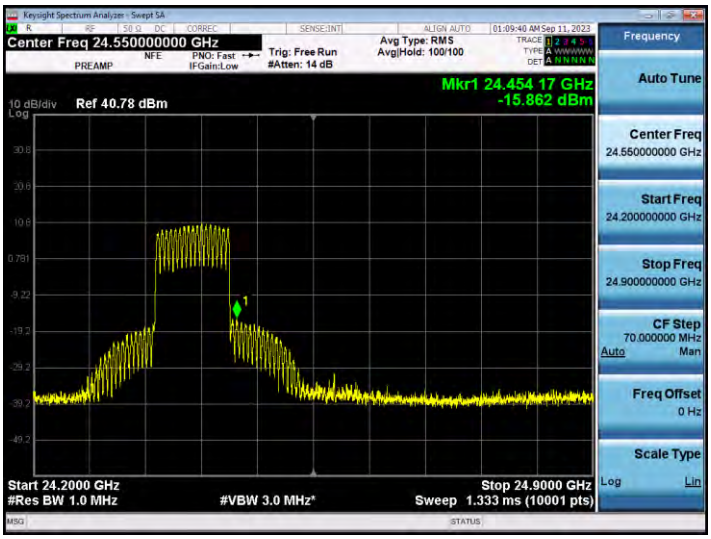
CCs active	BW	Mode	Frequency [MHz]	Channel	Beam Pol.	Modulation	Ant. Pol. [H/V]	RB Size/Offset	Band Edge [dBm]
1	50 MHz	SISO Dual	27525.00	Low	H+V	16QAM	H	1/0	-10.882※1
		SISO	27525.00	Low	V	BPSK	H	32/0	-18.404
		SISO Dual	28324.92	High	H+V	BPSK	V	1/31	-13.113※1
		SISO Dual	28324.92	High	H+V	QPSK	V	32/0	-14.060※1
	100 MHz	SISO	27550.08	Low	V	64QAM	H	1/0	-14.975※1
		SISO	27550.08	Low	V	BPSK	H	64/0	-19.919
		SISO Dual	28299.96	High	H+V	64QAM	V	1/65	-15.018※1
		SISO Dual	28299.96	High	H+V	QPSK	V	64/0	-15.845※1
2	100 MHz	SISO Dual	27600.06	Low	H+V	64QAM	H	1/0	-18.002
		SISO Dual	27600.06	Low	H+V	BPSK	H	64/0	-13.202※2
		SISO Dual	28249.98	High	H+V	BPSK	V	1/65	-19.789
		SISO Dual	28249.98	High	H+V	BPSK	V	64/0	-14.499※3
3	100 MHz	SISO	27650.04	Low	V	BPSK	H	1/0	-18.512
		SISO	27650.04	Low	V	BPSK	H	64/0	-28.424
		SISO Dual	28200	High	H+V	16QAM	V	1/65	-20.590
		SISO Dual	28200	High	H+V	QPSK	V	64/0	-25.143
4	100 MHz	SISO Dual	27700.02	Low	H+V	BPSK	H	1/0	-20.578
		SISO Dual	27700.02	Low	H+V	BPSK	H	64/0	-27.961
		SISO Dual	28150.02	High	H+V	16QAM	V	1/65	-22.087
		SISO Dual	28150.02	High	H+V	QPSK	V	64/0	-24.905

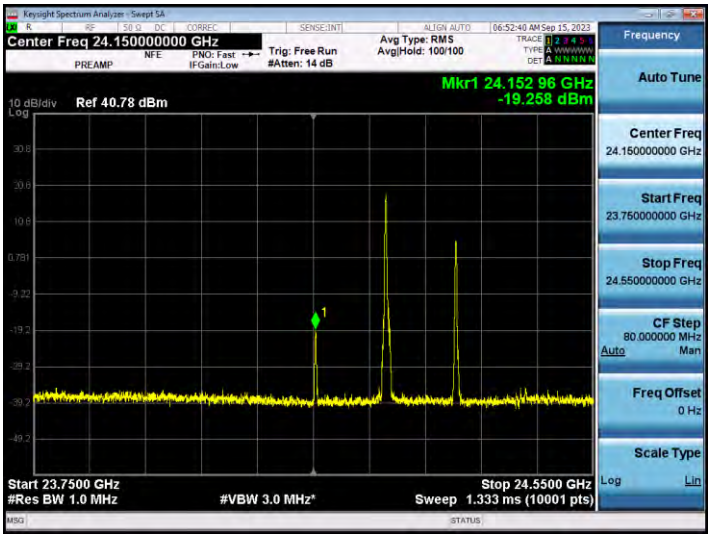
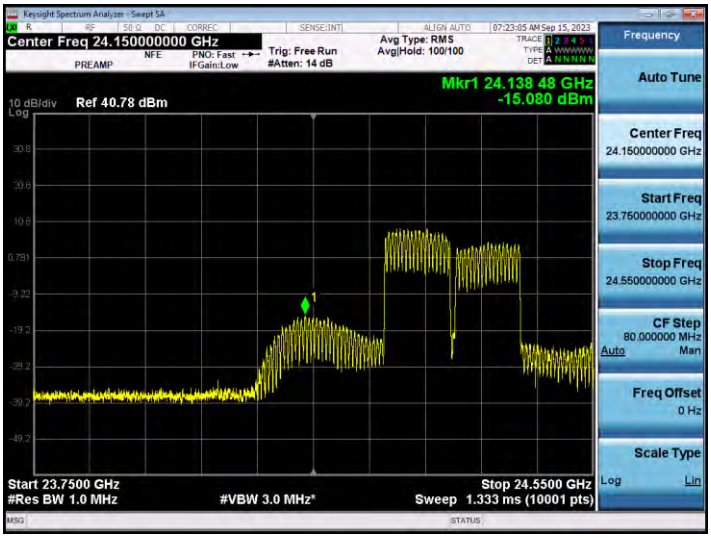
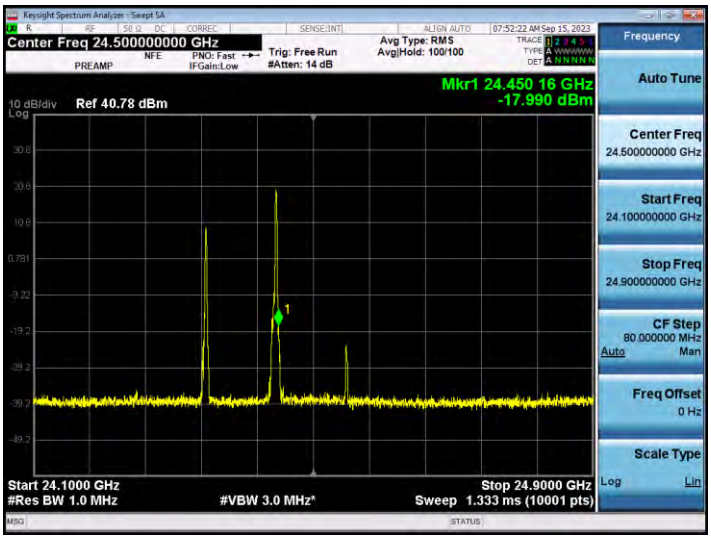
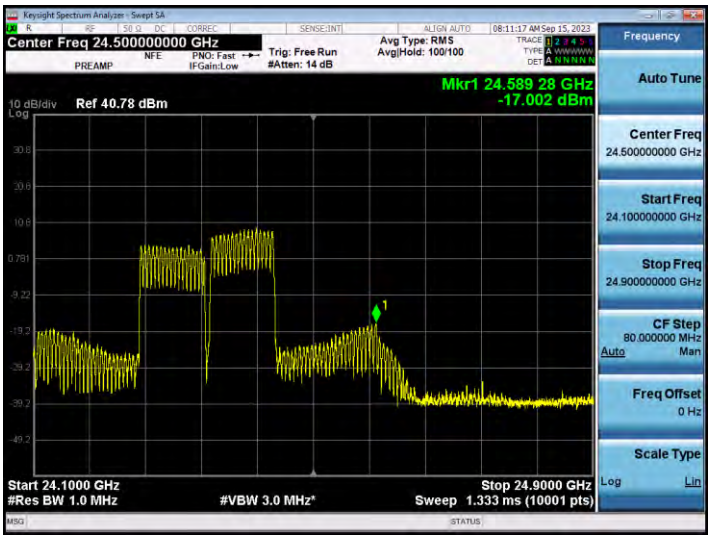
※1 **Note :** Limit: -5 dBm
※2 **Note :** TRP: -22.796 dBm
※3 **Note :** TRP: -23.752 dBm

Plot data of Band Edge

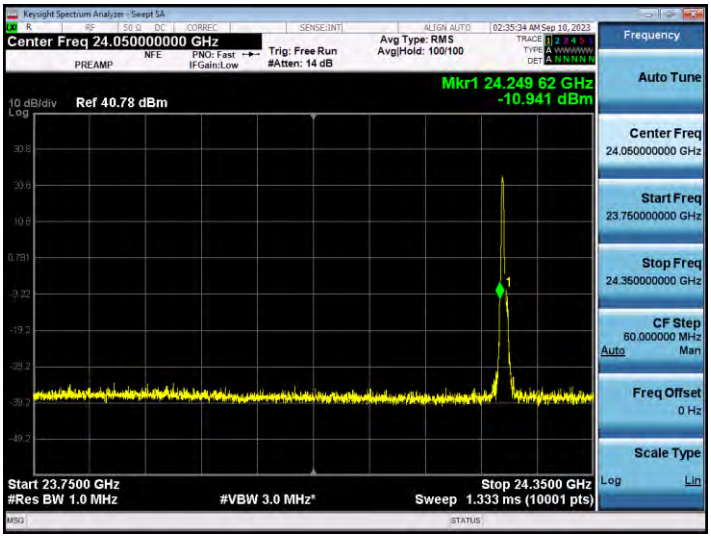
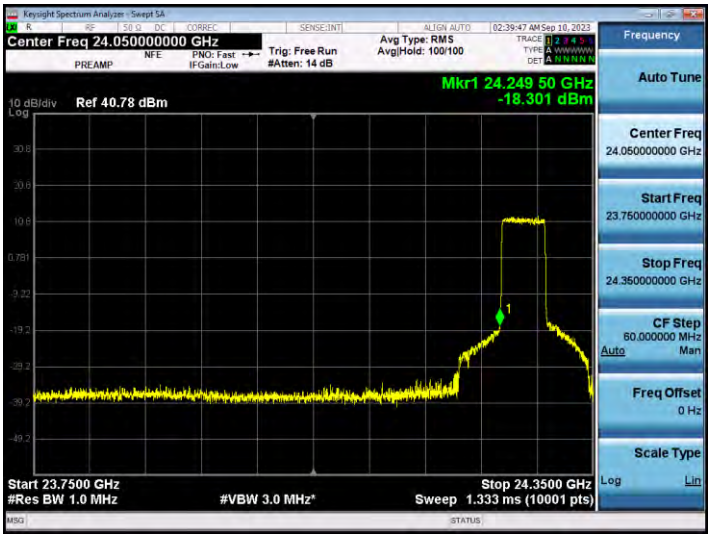
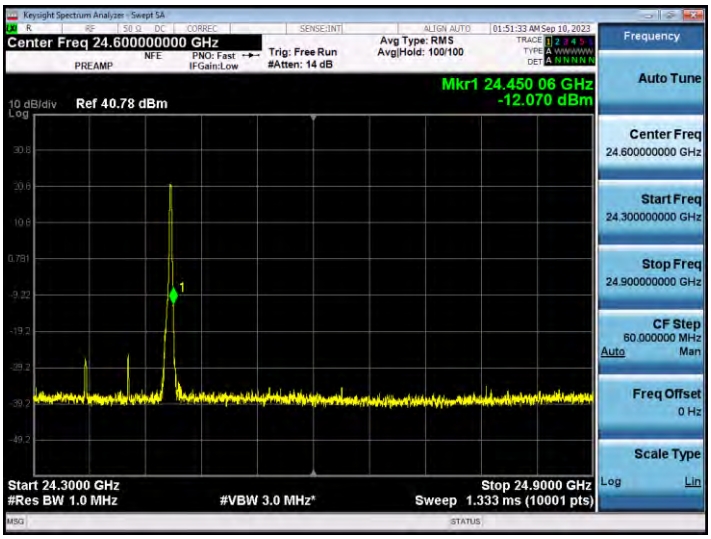
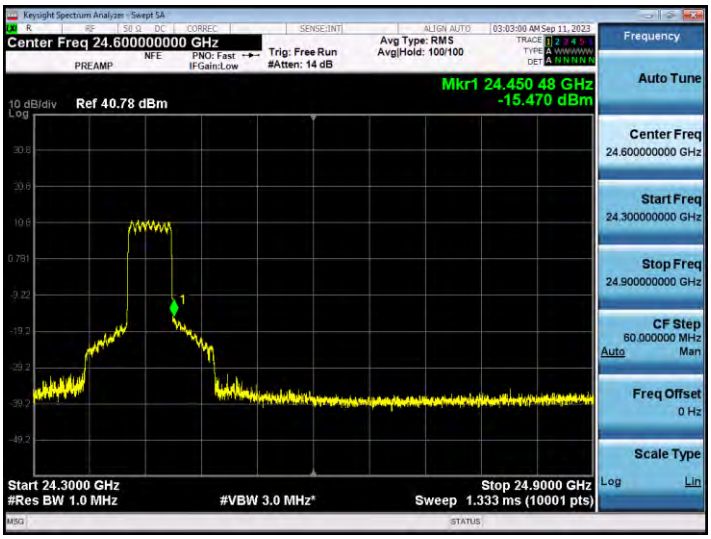
n258a Band Antenna 0 (M patch)

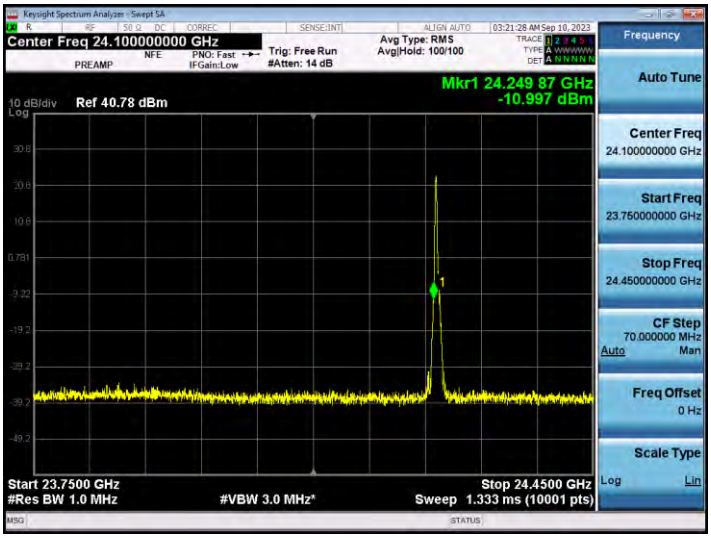
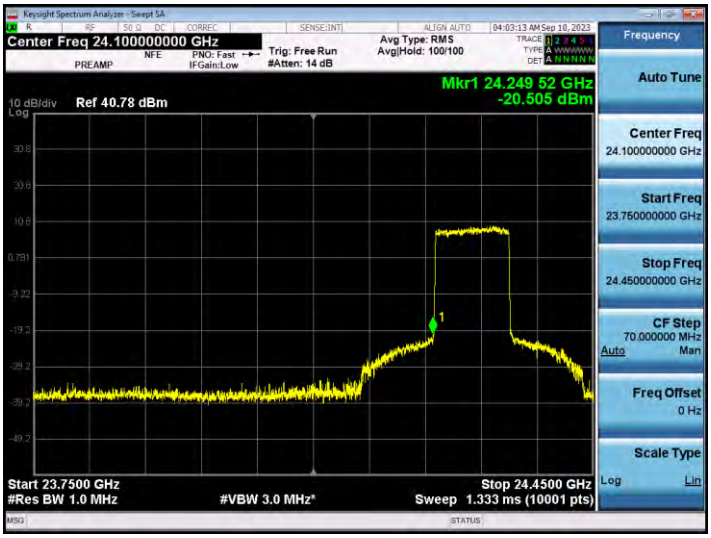
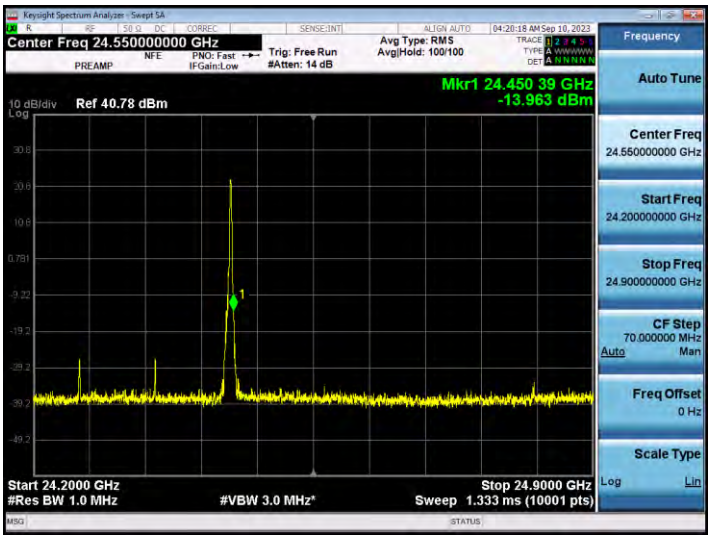
50 MHz, 1CC	
	
	

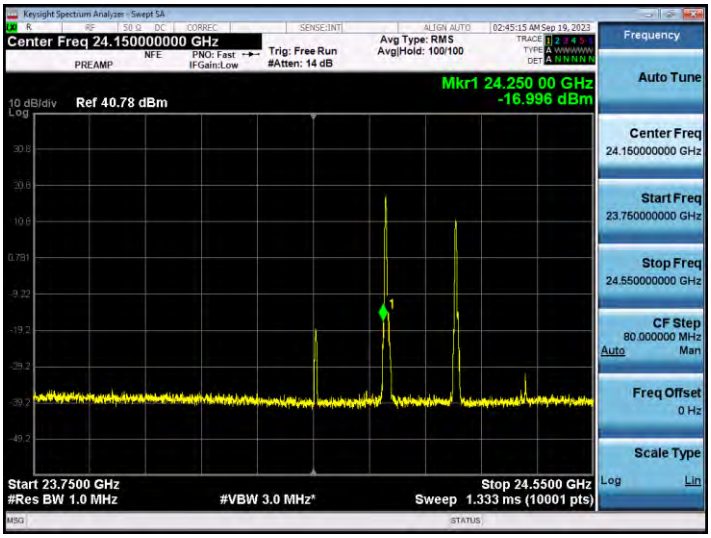
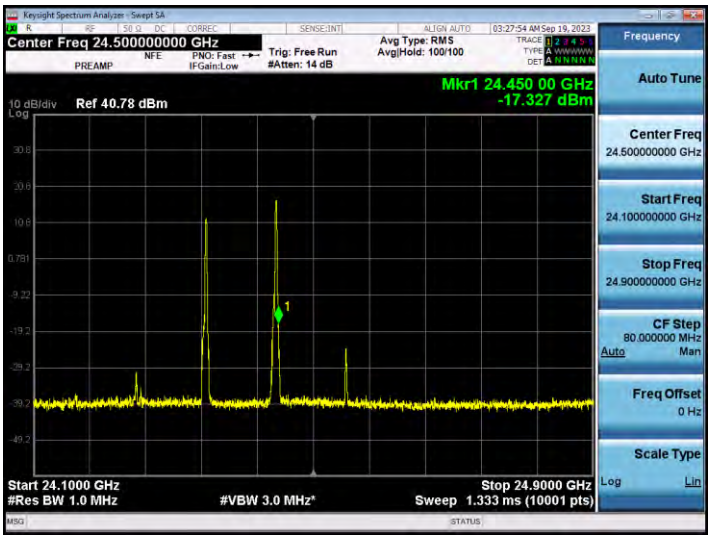
100 MHz, 1CC	
 Center Freq 24.100000000 GHz Mkr1 24.249 52 GHz -14.913 dBm Ref 40.78 dBm Start 23.7500 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Stop 24.4500 GHz Sweep 1.333 ms (10001 pts)	 Center Freq 24.100000000 GHz Mkr1 24.249 03 GHz -21.214 dBm Ref 40.78 dBm Start 23.7500 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Stop 24.4500 GHz Sweep 1.333 ms (10001 pts)
 Center Freq 24.550000000 GHz Mkr1 24.450 11 GHz -10.437 dBm Ref 40.78 dBm Start 24.2000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Stop 24.9000 GHz Sweep 1.333 ms (10001 pts)	 Center Freq 24.550000000 GHz Mkr1 24.454 17 GHz -15.862 dBm Ref 40.78 dBm Start 24.2000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Stop 24.9000 GHz Sweep 1.333 ms (10001 pts)

100 MHz, 2CC	
 Center Freq 24.150000000 GHz Mkr1 24.152 96 GHz -19.258 dBm Ref 40.78 dBm Start 23.7500 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Stop 24.5500 GHz Sweep 1.333 ms (10001 pts)	 Center Freq 24.150000000 GHz Mkr1 24.138 48 GHz -15.080 dBm Ref 40.78 dBm Start 23.7500 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Stop 24.5500 GHz Sweep 1.333 ms (10001 pts)
 Center Freq 24.500000000 GHz Mkr1 24.450 16 GHz -17.990 dBm Ref 40.78 dBm Start 24.1000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Stop 24.9000 GHz Sweep 1.333 ms (10001 pts)	 Center Freq 24.500000000 GHz Mkr1 24.589 28 GHz -17.002 dBm Ref 40.78 dBm Start 24.1000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Stop 24.9000 GHz Sweep 1.333 ms (10001 pts)

n258a Band Antenna 1 (N patch)

50 MHz, 1CC	
	
	

100 MHz, 1CC	
 Center Freq 24.100000000 GHz Mkr1 24.249 87 GHz -10.997 dBm Ref 40.78 dBm Start 23.7500 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Stop 24.4500 GHz Sweep 1.333 ms (10001 pts)	 Center Freq 24.100000000 GHz Mkr1 24.249 52 GHz -20.505 dBm Ref 40.78 dBm Start 23.7500 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Stop 24.4500 GHz Sweep 1.333 ms (10001 pts)
 Center Freq 24.550000000 GHz Mkr1 24.450 39 GHz -13.963 dBm Ref 40.78 dBm Start 24.2000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Stop 24.9000 GHz Sweep 1.333 ms (10001 pts)	 Center Freq 24.550000000 GHz Mkr1 24.455 22 GHz -19.267 dBm Ref 40.78 dBm Start 24.2000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Stop 24.9000 GHz Sweep 1.333 ms (10001 pts)

100 MHz, 2CC	
	
	

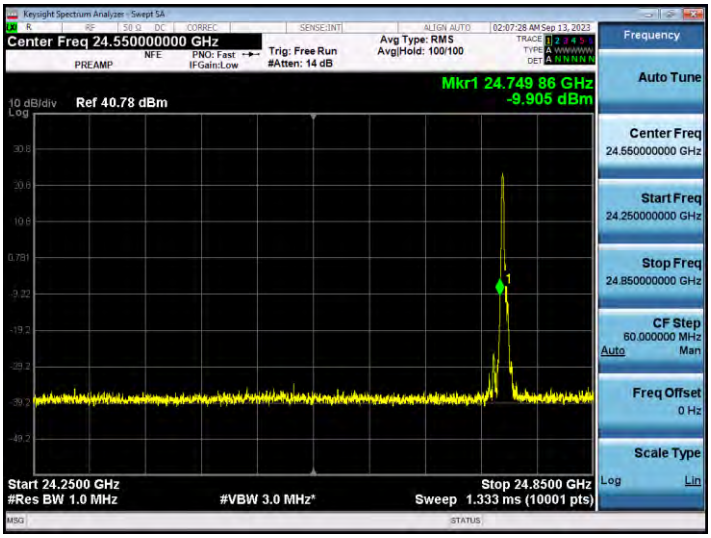
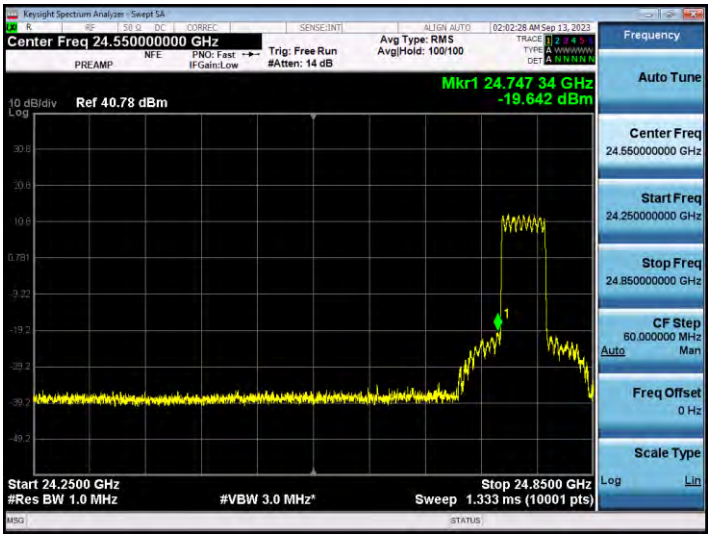
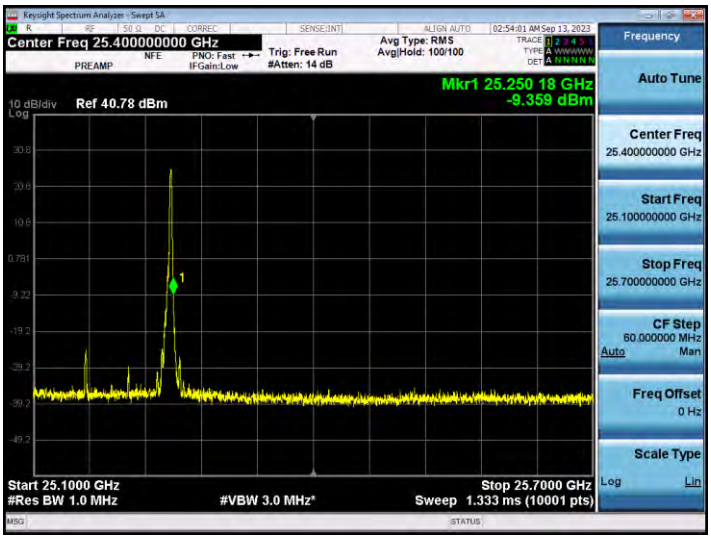
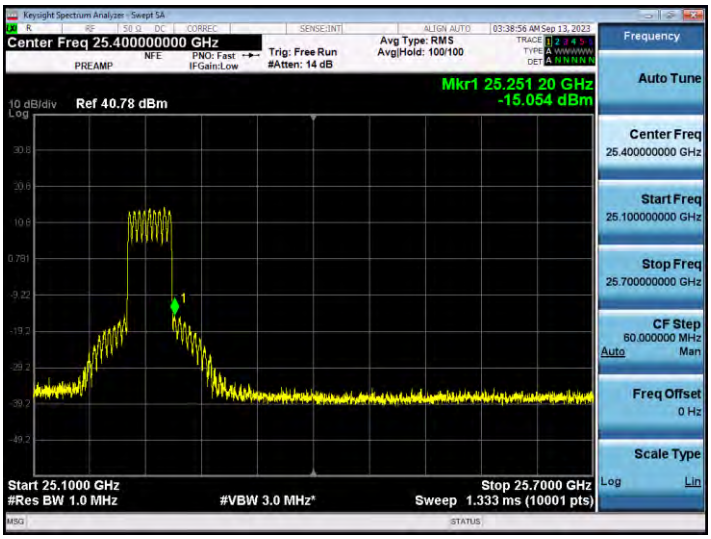
Keysight Spectrum Analyzer - Swept SA
Center Freq 24.150000000 GHz
PREAMP
Trig: Free Run
#Atten: 14 dB
Avg Type: RMS
Avg|Hold: 100/100
Mkr1 24.250 00 GHz
-16.996 dBm
10 dB/div
Ref 40.78 dBm
Start 23.7500 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 24.5500 GHz
Sweep 1.333 ms (10001 pts)
Frequency
Auto Tune
Center Freq
24.150000000 GHz
Start Freq
23.750000000 GHz
Stop Freq
24.550000000 GHz
CF Step
80.000000 MHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin

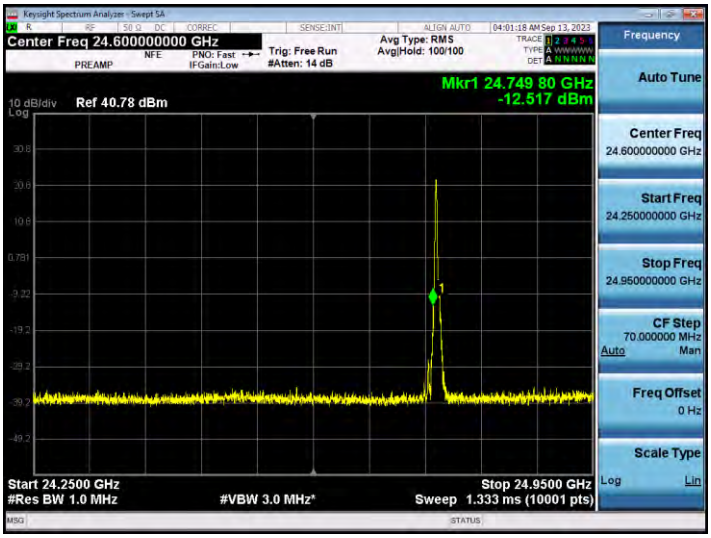
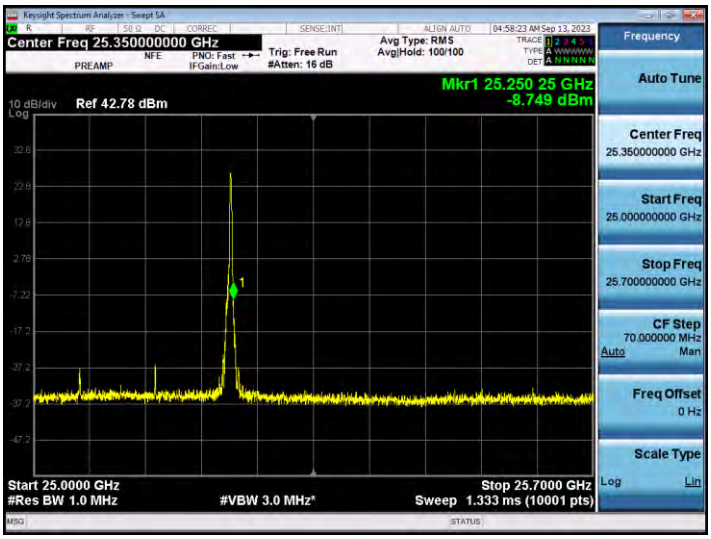
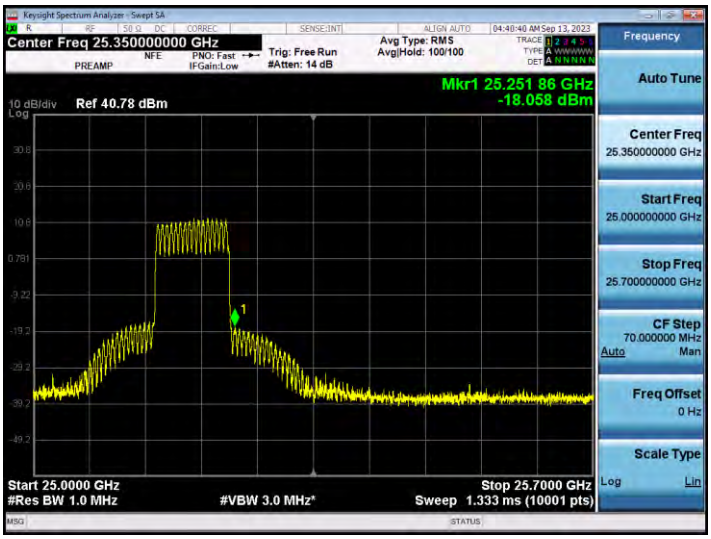
Keysight Spectrum Analyzer - Swept SA
Center Freq 24.150000000 GHz
PREAMP
Trig: Free Run
#Atten: 14 dB
Avg Type: RMS
Avg|Hold: 100/100
Mkr1 24.117 84 GHz
-16.363 dBm
10 dB/div
Ref 40.78 dBm
Start 23.7500 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 24.5500 GHz
Sweep 1.333 ms (10001 pts)
Frequency
Auto Tune
Center Freq
24.150000000 GHz
Start Freq
23.750000000 GHz
Stop Freq
24.550000000 GHz
CF Step
80.000000 MHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin

Keysight Spectrum Analyzer - Swept SA
Center Freq 24.500000000 GHz
PREAMP
Trig: Free Run
#Atten: 14 dB
Avg Type: RMS
Avg|Hold: 100/100
Mkr1 24.450 00 GHz
-17.327 dBm
10 dB/div
Ref 40.78 dBm
Start 24.1000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 24.9000 GHz
Sweep 1.333 ms (10001 pts)
Frequency
Auto Tune
Center Freq
24.500000000 GHz
Start Freq
24.100000000 GHz
Stop Freq
24.900000000 GHz
CF Step
80.000000 MHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin

Keysight Spectrum Analyzer - Swept SA
Center Freq 24.500000000 GHz
PREAMP
Trig: Free Run
#Atten: 14 dB
Avg Type: RMS
Avg|Hold: 100/100
Mkr1 24.575 52 GHz
-20.049 dBm
10 dB/div
Ref 40.78 dBm
Start 24.1000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 24.9000 GHz
Sweep 1.333 ms (10001 pts)
Frequency
Auto Tune
Center Freq
24.500000000 GHz
Start Freq
24.100000000 GHz
Stop Freq
24.900000000 GHz
CF Step
80.000000 MHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin

n258b Band Antenna 0 (M patch)

50 MHz, 1CC	
	
	

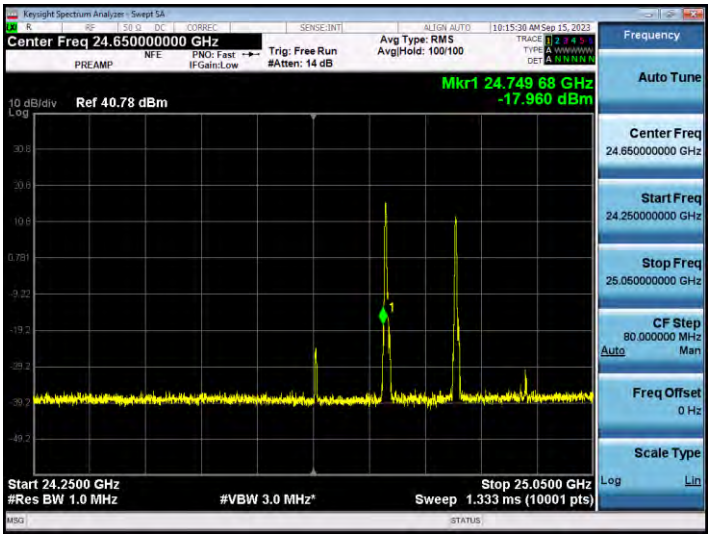
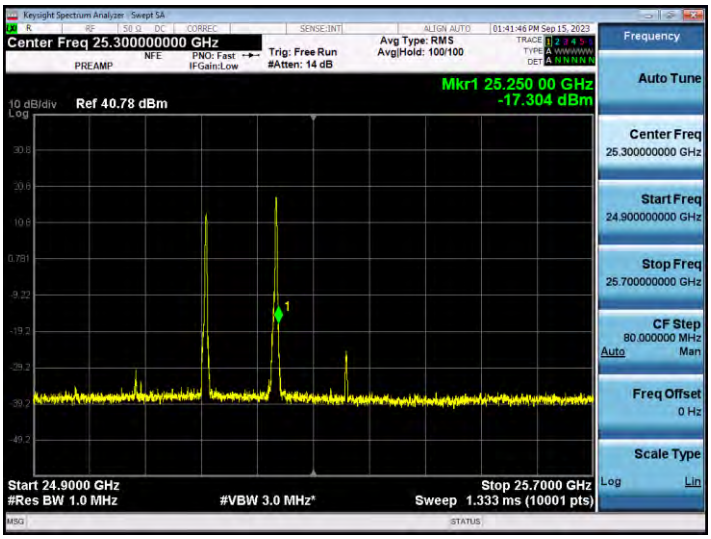
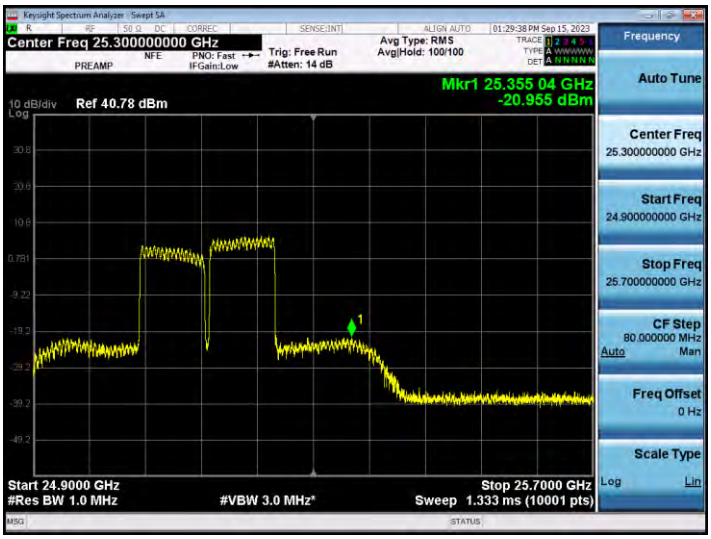
100 MHz, 1CC	
	
	

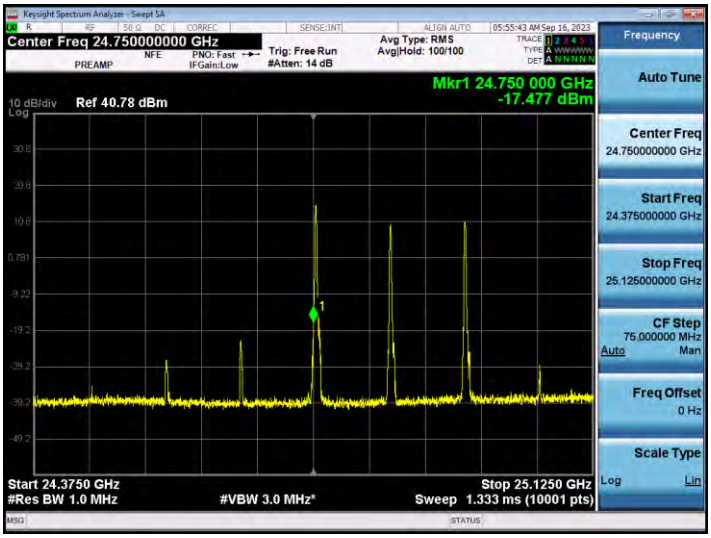
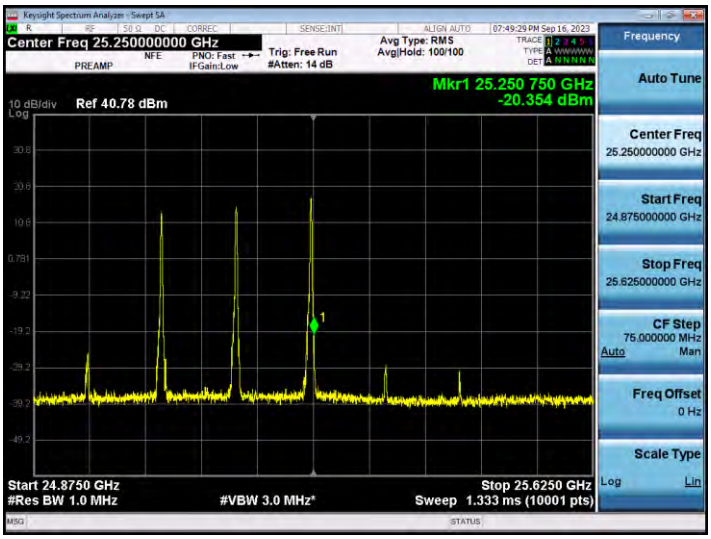
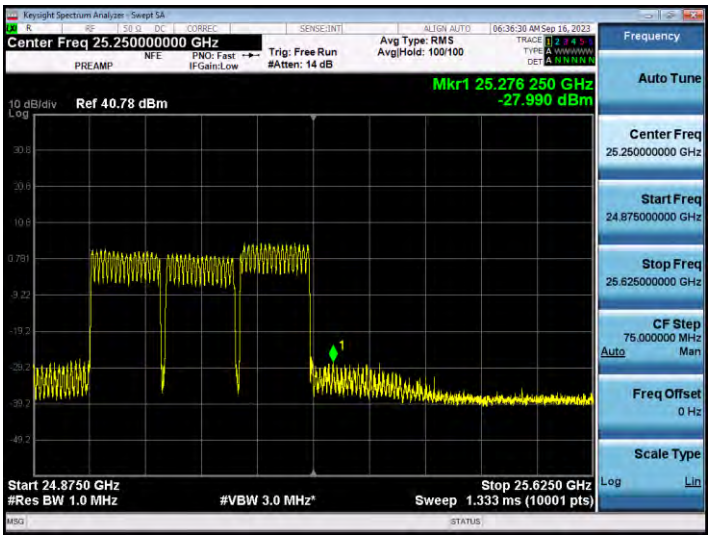
Keysight Spectrum Analyzer - Swept SA
Center Freq 24.600000000 GHz
PREAMP
Trig: Free Run
#Atten: 14 dB
Avg Type: RMS
Avg|Hold: 100/100
04:01:18 AM Sep 13, 2023
Mkr1 24.749 80 GHz
-12.517 dBm
10 dB/div
Ref 40.78 dBm
Start 24.2500 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 24.9500 GHz
Sweep 1.333 ms (10001 pts)
Frequency
Auto Tune
Center Freq
24.600000000 GHz
Start Freq
24.250000000 GHz
Stop Freq
24.950000000 GHz
CF Step
70.000000 MHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin

Keysight Spectrum Analyzer - Swept SA
Center Freq 24.600000000 GHz
PREAMP
Trig: Free Run
#Atten: 14 dB
Avg Type: RMS
Avg|Hold: 100/100
04:04:30 AM Sep 13, 2023
Mkr1 24.749 73 GHz
-19.585 dBm
10 dB/div
Ref 40.78 dBm
Start 24.2500 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 24.9500 GHz
Sweep 1.333 ms (10001 pts)
Frequency
Auto Tune
Center Freq
24.600000000 GHz
Start Freq
24.250000000 GHz
Stop Freq
24.950000000 GHz
CF Step
70.000000 MHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin

Keysight Spectrum Analyzer - Swept SA
Center Freq 25.350000000 GHz
PREAMP
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 100/100
04:58:23 AM Sep 13, 2023
Mkr1 25.250 25 GHz
-8.749 dBm
10 dB/div
Ref 42.78 dBm
Start 25.0000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 25.7000 GHz
Sweep 1.333 ms (10001 pts)
Frequency
Auto Tune
Center Freq
25.350000000 GHz
Start Freq
25.000000000 GHz
Stop Freq
25.700000000 GHz
CF Step
70.000000 MHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin

Keysight Spectrum Analyzer - Swept SA
Center Freq 25.350000000 GHz
PREAMP
Trig: Free Run
#Atten: 14 dB
Avg Type: RMS
Avg|Hold: 100/100
04:40:40 AM Sep 13, 2023
Mkr1 25.251 86 GHz
-18.058 dBm
10 dB/div
Ref 40.78 dBm
Start 25.0000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 25.7000 GHz
Sweep 1.333 ms (10001 pts)
Frequency
Auto Tune
Center Freq
25.350000000 GHz
Start Freq
25.000000000 GHz
Stop Freq
25.700000000 GHz
CF Step
70.000000 MHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin

100 MHz, 2CC	
 Center Freq 24.650000000 GHz Mkr1 24.749 68 GHz -17.960 dBm Ref 40.78 dBm Start 24.2500 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Stop 25.0500 GHz Sweep 1.333 ms (10001 pts)	 Center Freq 24.650000000 GHz Mkr1 24.622 88 GHz -18.295 dBm Ref 40.78 dBm Start 24.2500 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Stop 25.0500 GHz Sweep 1.333 ms (10001 pts)
 Center Freq 25.300000000 GHz Mkr1 25.250 00 GHz -17.304 dBm Ref 40.78 dBm Start 24.9000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Stop 25.7000 GHz Sweep 1.333 ms (10001 pts)	 Center Freq 25.300000000 GHz Mkr1 25.355 04 GHz -20.955 dBm Ref 40.78 dBm Start 24.9000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Stop 25.7000 GHz Sweep 1.333 ms (10001 pts)

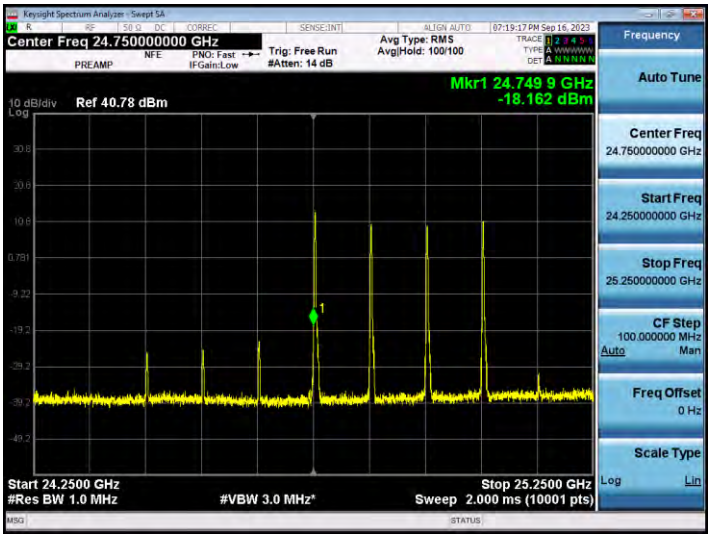
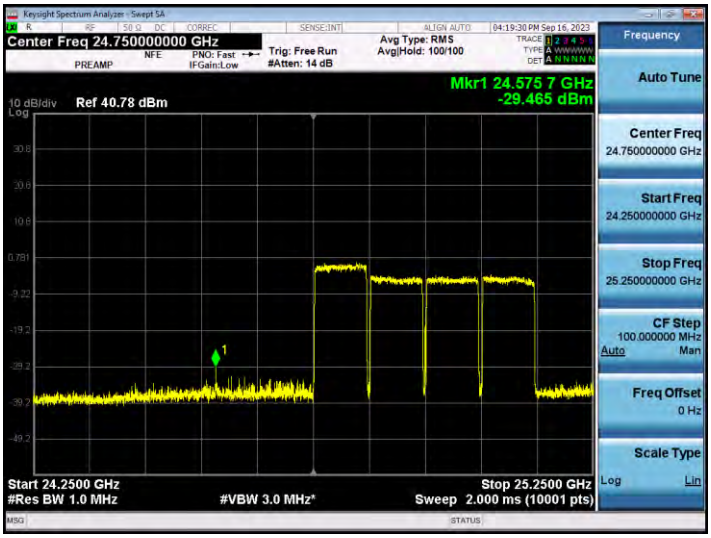
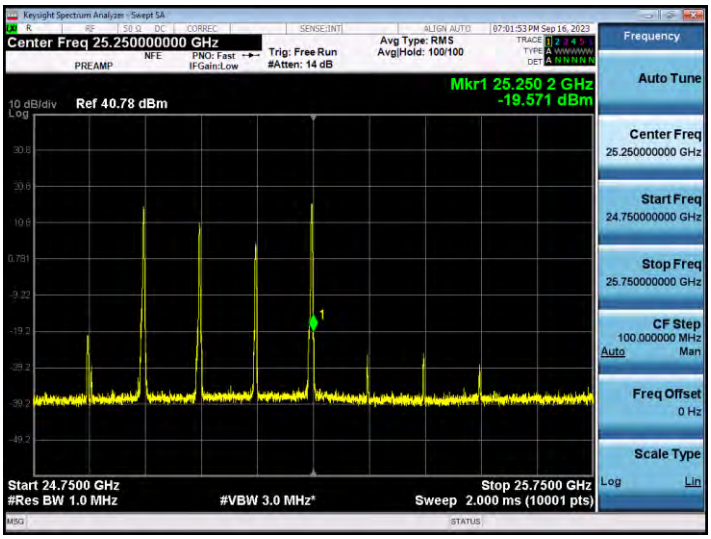
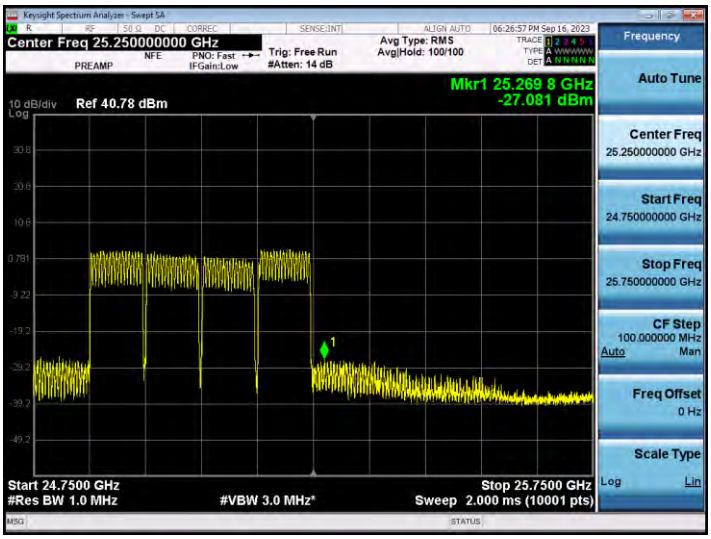
100 MHz, 3CC	
	
	

Keysight Spectrum Analyzer - Swept SA
Center Freq 24.750000000 GHz
PREAMP
Trig: Free Run
#Atten: 14 dB
Avg Type: RMS
Avg|Hold: 100/100
Mkr1 24.750 000 GHz
-17.477 dBm
10 dB/div
Ref 40.78 dBm
Start 24.3750 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 25.1250 GHz
Sweep 1.333 ms (10001 pts)
Frequency
Auto Tune
Center Freq
24.750000000 GHz
Start Freq
24.375000000 GHz
Stop Freq
25.125000000 GHz
CF Step
75.000000 MHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin

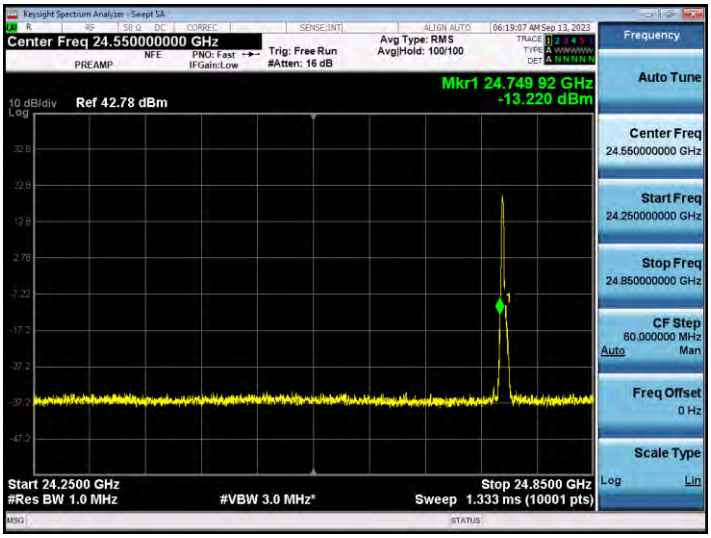
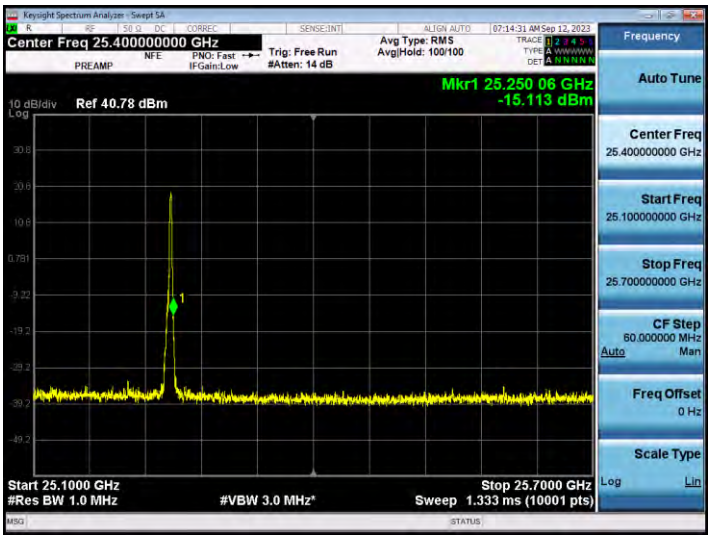
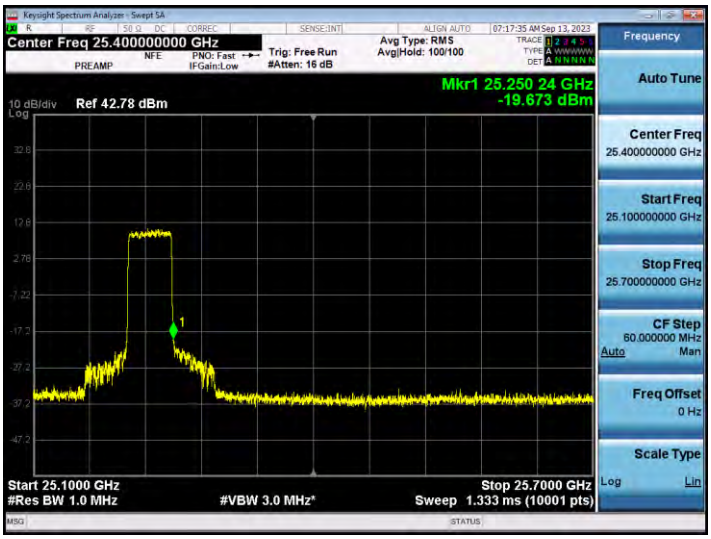
Keysight Spectrum Analyzer - Swept SA
Center Freq 24.750000000 GHz
PREAMP
Trig: Free Run
#Atten: 14 dB
Avg Type: RMS
Avg|Hold: 100/100
Mkr1 24.575 700 GHz
-30.152 dBm
10 dB/div
Ref 40.78 dBm
Start 24.3750 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 25.1250 GHz
Sweep 1.333 ms (10001 pts)
Frequency
Auto Tune
Center Freq
24.750000000 GHz
Start Freq
24.375000000 GHz
Stop Freq
25.125000000 GHz
CF Step
75.000000 MHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin

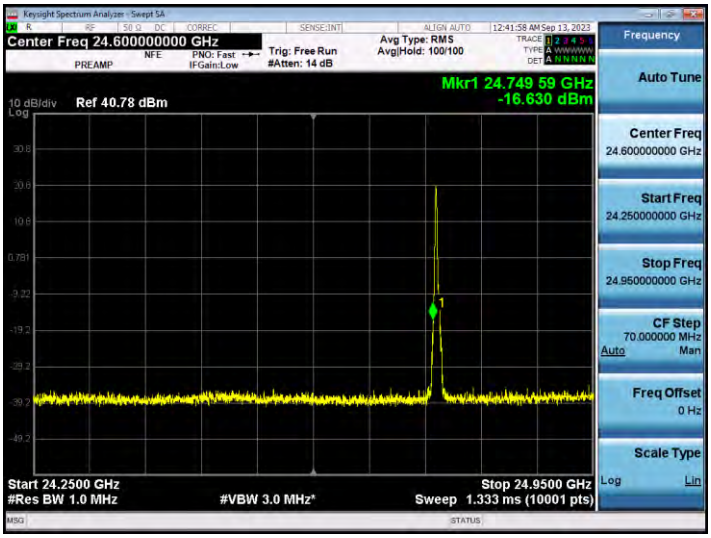
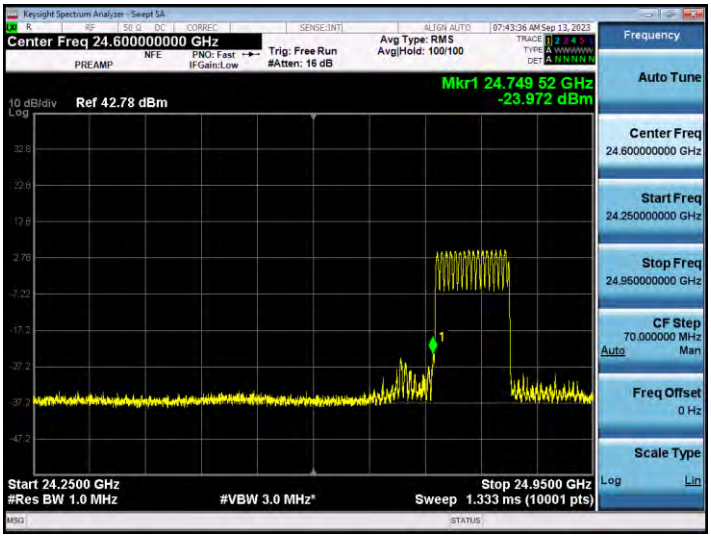
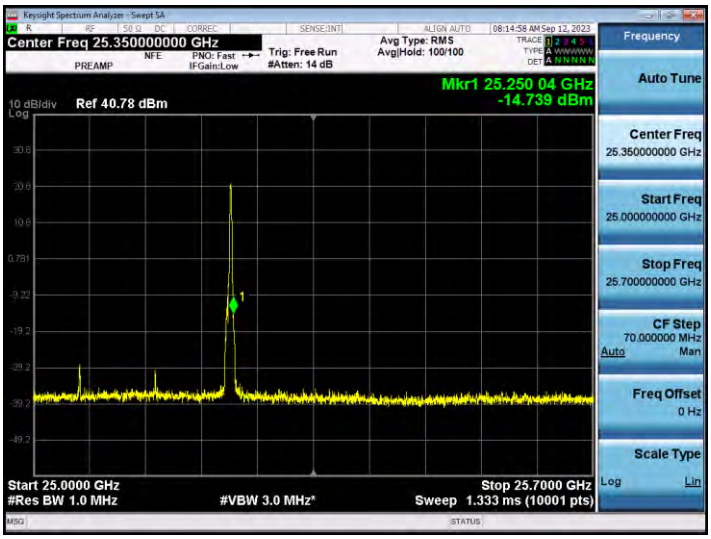
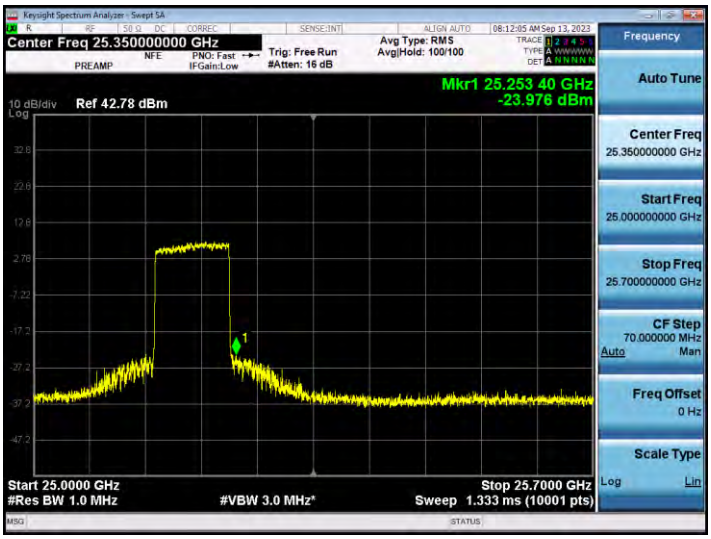
Keysight Spectrum Analyzer - Swept SA
Center Freq 25.250000000 GHz
PREAMP
Trig: Free Run
#Atten: 14 dB
Avg Type: RMS
Avg|Hold: 100/100
Mkr1 25.250 750 GHz
-20.354 dBm
10 dB/div
Ref 40.78 dBm
Start 24.8750 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 25.6250 GHz
Sweep 1.333 ms (10001 pts)
Frequency
Auto Tune
Center Freq
25.250000000 GHz
Start Freq
24.875000000 GHz
Stop Freq
25.625000000 GHz
CF Step
75.000000 MHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin

Keysight Spectrum Analyzer - Swept SA
Center Freq 25.250000000 GHz
PREAMP
Trig: Free Run
#Atten: 14 dB
Avg Type: RMS
Avg|Hold: 100/100
Mkr1 25.276 250 GHz
-27.990 dBm
10 dB/div
Ref 40.78 dBm
Start 24.8750 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 25.6250 GHz
Sweep 1.333 ms (10001 pts)
Frequency
Auto Tune
Center Freq
25.250000000 GHz
Start Freq
24.875000000 GHz
Stop Freq
25.625000000 GHz
CF Step
75.000000 MHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin

100 MHz, 4CC	
 Center Freq 24.750000000 GHz Mkr1 24.749 9 GHz -18.162 dBm Ref 40.78 dBm Start 24.2500 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Stop 25.2500 GHz Sweep 2.000 ms (10001 pts)	 Center Freq 24.750000000 GHz Mkr1 24.575 7 GHz -29.465 dBm Ref 40.78 dBm Start 24.2500 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Stop 25.2500 GHz Sweep 2.000 ms (10001 pts)
 Center Freq 25.250000000 GHz Mkr1 25.250 2 GHz -19.571 dBm Ref 40.78 dBm Start 24.7500 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Stop 25.7500 GHz Sweep 2.000 ms (10001 pts)	 Center Freq 25.250000000 GHz Mkr1 25.269 8 GHz -27.081 dBm Ref 40.78 dBm Start 24.7500 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Stop 25.7500 GHz Sweep 2.000 ms (10001 pts)

n258b Band Antenna 1 (N patch)

50 MHz, 1CC	
	
	

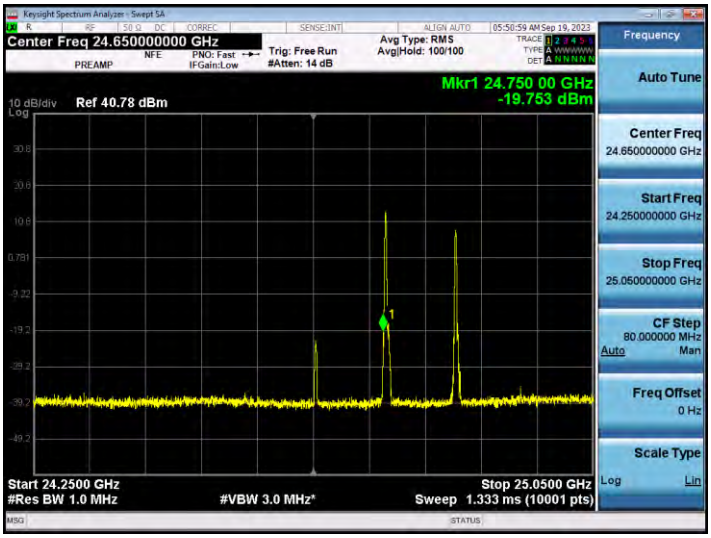
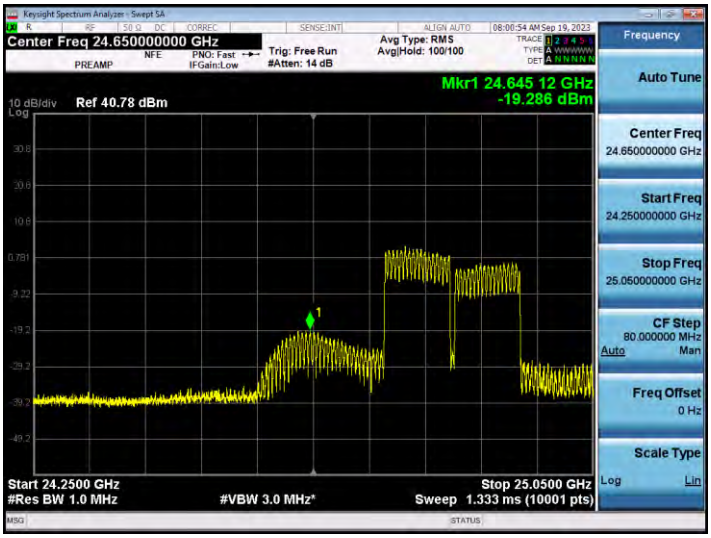
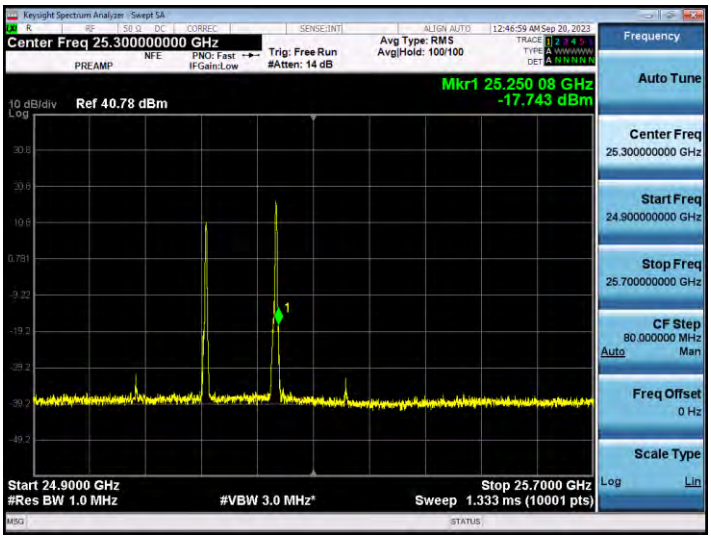
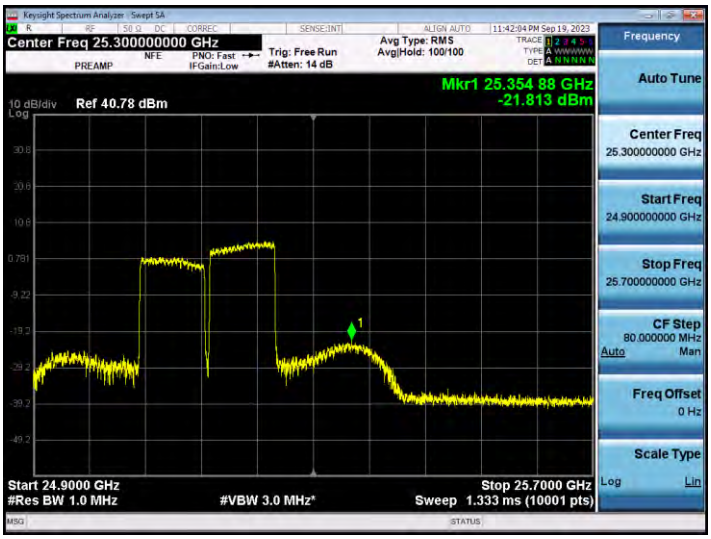
100 MHz, 1CC	
	
	

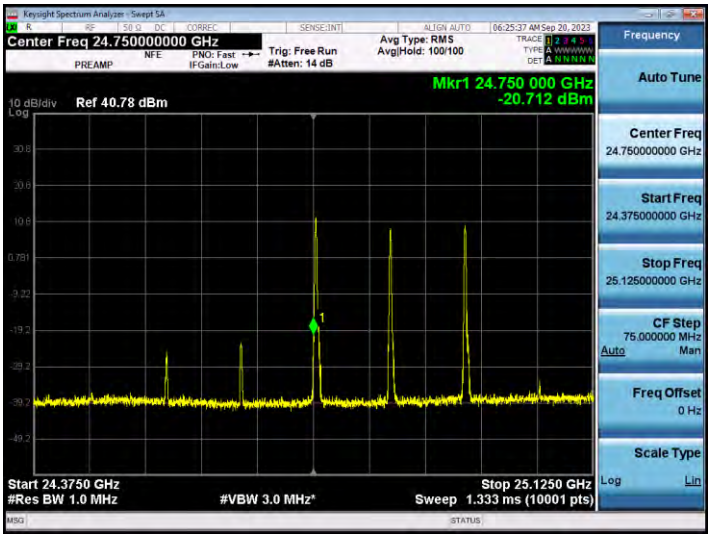
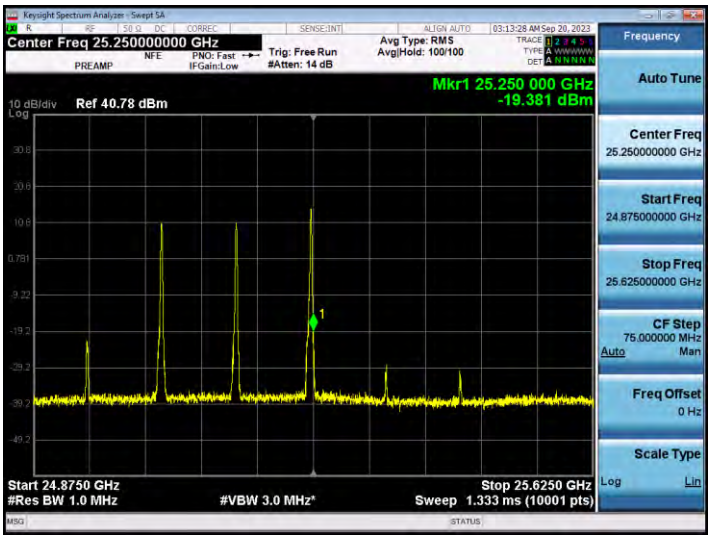
Keysight Spectrum Analyzer - Swept SA
Center Freq 24.600000000 GHz
PREAMP
Trig: Free Run
#Atten: 14 dB
Avg Type: RMS
Avg|Hold: 100/100
12:41:58 AM Sep 13, 2023
Mkr1 24.749 59 GHz
-16.630 dBm
10 dB/div
Ref 40.78 dBm
Start 24.2500 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 24.9500 GHz
Sweep 1.333 ms (10001 pts)
Frequency
Auto Tune
Center Freq
24.600000000 GHz
Start Freq
24.250000000 GHz
Stop Freq
24.950000000 GHz
CF Step
70.000000 MHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin

Keysight Spectrum Analyzer - Swept SA
Center Freq 24.600000000 GHz
PREAMP
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 100/100
07:43:36 AM Sep 13, 2023
Mkr1 24.749 52 GHz
-23.972 dBm
10 dB/div
Ref 42.78 dBm
Start 24.2500 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 24.9500 GHz
Sweep 1.333 ms (10001 pts)
Frequency
Auto Tune
Center Freq
24.600000000 GHz
Start Freq
24.250000000 GHz
Stop Freq
24.950000000 GHz
CF Step
70.000000 MHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin

Keysight Spectrum Analyzer - Swept SA
Center Freq 25.350000000 GHz
PREAMP
Trig: Free Run
#Atten: 14 dB
Avg Type: RMS
Avg|Hold: 100/100
08:14:58 AM Sep 12, 2023
Mkr1 25.250 04 GHz
-14.739 dBm
10 dB/div
Ref 40.78 dBm
Start 25.0000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 25.7000 GHz
Sweep 1.333 ms (10001 pts)
Frequency
Auto Tune
Center Freq
25.350000000 GHz
Start Freq
25.000000000 GHz
Stop Freq
25.700000000 GHz
CF Step
70.000000 MHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin

Keysight Spectrum Analyzer - Swept SA
Center Freq 25.350000000 GHz
PREAMP
Trig: Free Run
#Atten: 16 dB
Avg Type: RMS
Avg|Hold: 100/100
08:12:05 AM Sep 13, 2023
Mkr1 25.253 40 GHz
-23.976 dBm
10 dB/div
Ref 42.78 dBm
Start 25.0000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 25.7000 GHz
Sweep 1.333 ms (10001 pts)
Frequency
Auto Tune
Center Freq
25.350000000 GHz
Start Freq
25.000000000 GHz
Stop Freq
25.700000000 GHz
CF Step
70.000000 MHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin

100 MHz, 2CC	
 Center Freq 24.650000000 GHz Mkr1 24.750 00 GHz -19.753 dBm Ref 40.78 dBm Start 24.2500 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Stop 25.0500 GHz Sweep 1.333 ms (10001 pts)	 Center Freq 24.650000000 GHz Mkr1 24.645 12 GHz -19.286 dBm Ref 40.78 dBm Start 24.2500 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Stop 25.0500 GHz Sweep 1.333 ms (10001 pts)
 Center Freq 25.300000000 GHz Mkr1 25.250 08 GHz -17.743 dBm Ref 40.78 dBm Start 24.9000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Stop 25.7000 GHz Sweep 1.333 ms (10001 pts)	 Center Freq 25.300000000 GHz Mkr1 25.354 88 GHz -21.813 dBm Ref 40.78 dBm Start 24.9000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Stop 25.7000 GHz Sweep 1.333 ms (10001 pts)

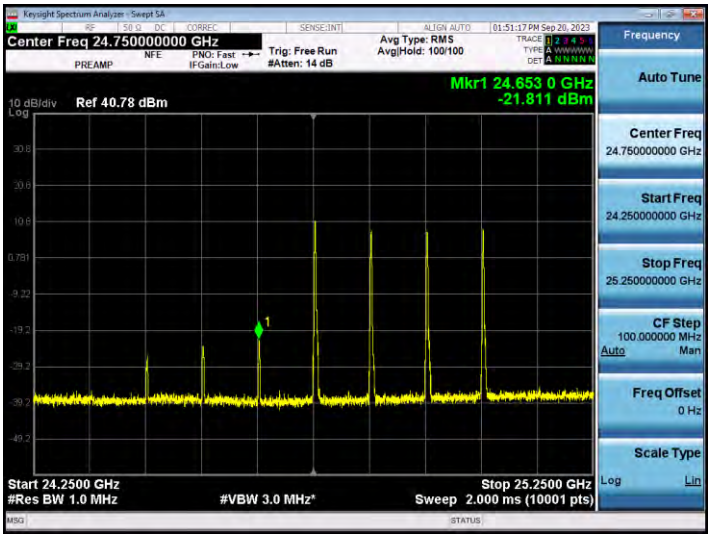
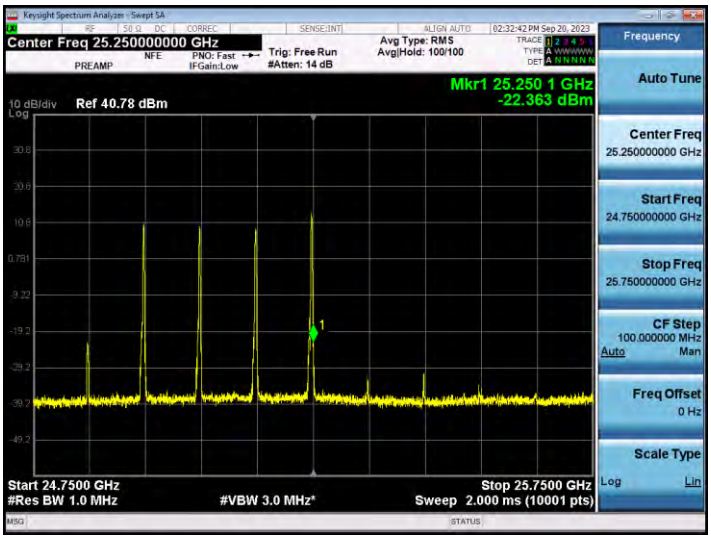
100 MHz, 3CC	
	
	

Keysight Spectrum Analyzer - Swept SA
Center Freq 24.750000000 GHz
PREAMP
Trig: Free Run
#Atten: 14 dB
Avg Type: RMS
Avg|Hold: 100/100
Mkr1 24.750 000 GHz
-20.712 dBm
10 dB/div
Ref 40.78 dBm
Start 24.3750 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 25.1250 GHz
Sweep 1.333 ms (10001 pts)
Frequency
Auto Tune
Center Freq
24.750000000 GHz
Start Freq
24.375000000 GHz
Stop Freq
25.125000000 GHz
CF Step
75.000000 MHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin

Keysight Spectrum Analyzer - Swept SA
Center Freq 24.750000000 GHz
PREAMP
Trig: Free Run
#Atten: 14 dB
Avg Type: RMS
Avg|Hold: 100/100
Mkr1 24.694 575 GHz
-33.997 dBm
10 dB/div
Ref 40.78 dBm
Start 24.3750 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 25.1250 GHz
Sweep 1.333 ms (10001 pts)
Frequency
Auto Tune
Center Freq
24.750000000 GHz
Start Freq
24.375000000 GHz
Stop Freq
25.125000000 GHz
CF Step
75.000000 MHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin

Keysight Spectrum Analyzer - Swept SA
Center Freq 25.250000000 GHz
PREAMP
Trig: Free Run
#Atten: 14 dB
Avg Type: RMS
Avg|Hold: 100/100
Mkr1 25.250 000 GHz
-19.381 dBm
10 dB/div
Ref 40.78 dBm
Start 24.8750 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 25.6250 GHz
Sweep 1.333 ms (10001 pts)
Frequency
Auto Tune
Center Freq
25.250000000 GHz
Start Freq
24.875000000 GHz
Stop Freq
25.625000000 GHz
CF Step
75.000000 MHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin

Keysight Spectrum Analyzer - Swept SA
Center Freq 25.250000000 GHz
PREAMP
Trig: Free Run
#Atten: 14 dB
Avg Type: RMS
Avg|Hold: 100/100
Mkr1 25.251 800 GHz
-30.628 dBm
10 dB/div
Ref 40.78 dBm
Start 24.8750 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Stop 25.6250 GHz
Sweep 1.333 ms (10001 pts)
Frequency
Auto Tune
Center Freq
25.250000000 GHz
Start Freq
24.875000000 GHz
Stop Freq
25.625000000 GHz
CF Step
75.000000 MHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin

100 MHz, 4CC	
 Center Freq 24.750000000 GHz Trig: Free Run #Atten: 14 dB Avg Type: RMS Avg|Hold: 100/100 Mkr1 24.653 0 GHz -21.811 dBm 10 dB/div Ref 40.78 dBm Start 24.2500 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Stop 25.2500 GHz Sweep 2.000 ms (10001 pts)	 Center Freq 24.750000000 GHz Trig: Free Run #Atten: 14 dB Avg Type: RMS Avg|Hold: 100/100 Mkr1 24.575 7 GHz -33.485 dBm 10 dB/div Ref 40.78 dBm Start 24.2500 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Stop 25.2500 GHz Sweep 2.000 ms (10001 pts)
 Center Freq 25.250000000 GHz Trig: Free Run #Atten: 14 dB Avg Type: RMS Avg|Hold: 100/100 Mkr1 25.250 1 GHz -22.363 dBm 10 dB/div Ref 40.78 dBm Start 24.7500 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Stop 25.7500 GHz Sweep 2.000 ms (10001 pts)	 Center Freq 25.250000000 GHz Trig: Free Run #Atten: 14 dB Avg Type: RMS Avg|Hold: 100/100 Mkr1 25.259 3 GHz -30.531 dBm 10 dB/div Ref 40.78 dBm Start 24.7500 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* Stop 25.7500 GHz Sweep 2.000 ms (10001 pts)

n260 Band Antenna 0 (M patch)

50 MHz, 1CC