Case No. : GTS20250530022-5-04	
Ambient Condition: 22 ℃, 51 %RH	
According Standard: ■Part15E	
Test Date: 2025.6.17	**Test Engineer:** Evan ouyang

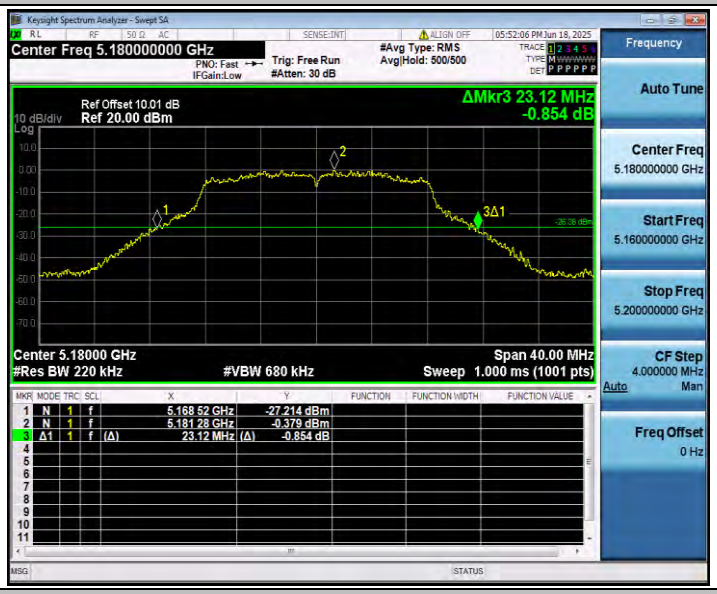
Appendix D.1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5180	23.120	5168.520	5191.640	---	---
		5200	22.720	5188.440	5211.160	---	---
		5240	23.040	5228.320	5251.360	---	---
11N20SISO	Ant2	5180	23.560	5168.240	5191.800	---	---
		5200	23.200	5188.400	5211.600	---	---
		5240	23.920	5227.760	5251.680	---	---
11N40SISO	Ant2	5190	42.400	5169.040	5211.440	---	---
		5230	44.000	5208.160	5252.160	---	---
11AC20SISO	Ant2	5180	23.560	5168.360	5191.920	---	---
		5200	23.160	5188.440	5211.600	---	---
		5240	23.440	5228.200	5251.640	---	---
11AC40SISO	Ant2	5190	42.960	5168.640	5211.600	---	---
		5230	43.120	5208.320	5251.440	---	---
11AX20SISO	Ant2	5180	23.240	5168.280	5191.520	---	---
		5200	22.560	5188.880	5211.440	---	---
		5240	23.640	5228.520	5252.160	---	---
11AX40SISO	Ant2	5190	42.080	5169.040	5211.120	---	---
		5230	42.400	5208.720	5251.120	---	---

Test Graphs

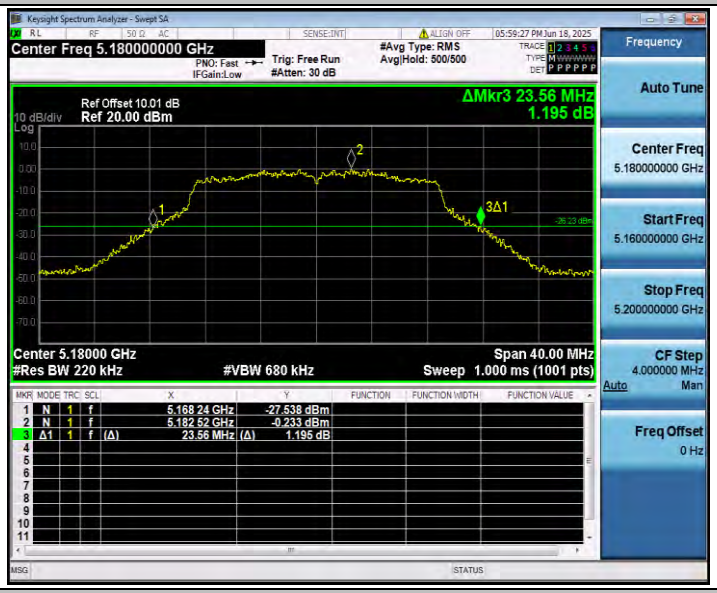
11A_Ant2_5180



11A_Ant2_5200

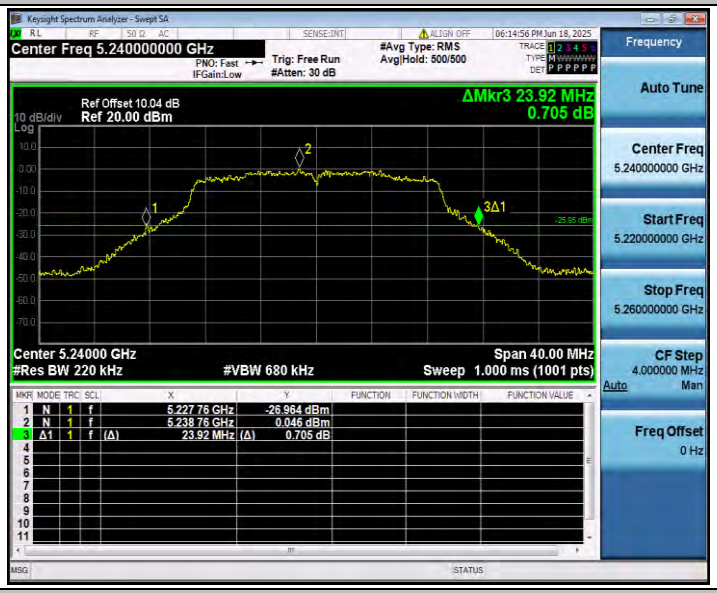
11A_Ant2_5240

11N20SISO_Ant2_5180

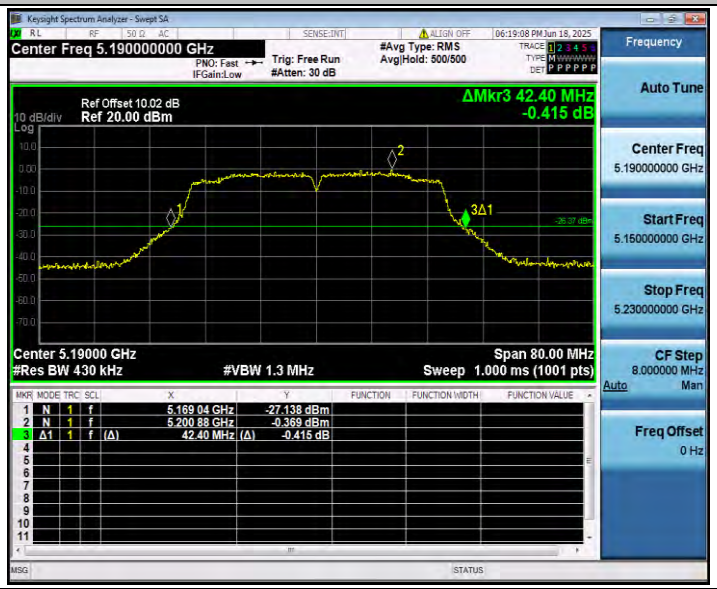


11N20SISO_Ant2_5200

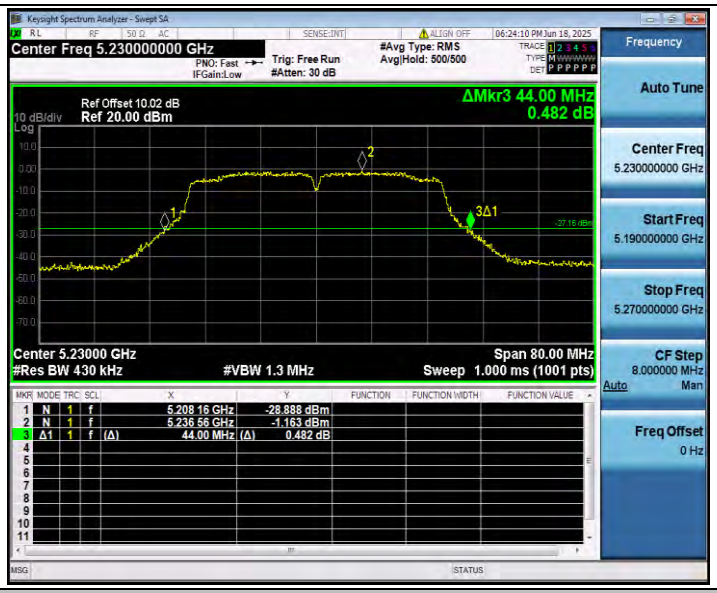
11N20SISO_Ant2_5240



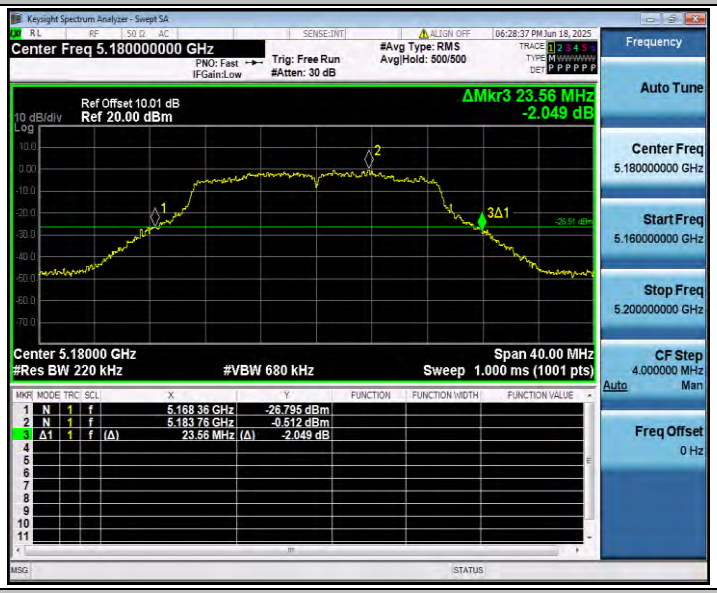
11N40SISO_Ant2_5190



11N40SISO_Ant2_5230

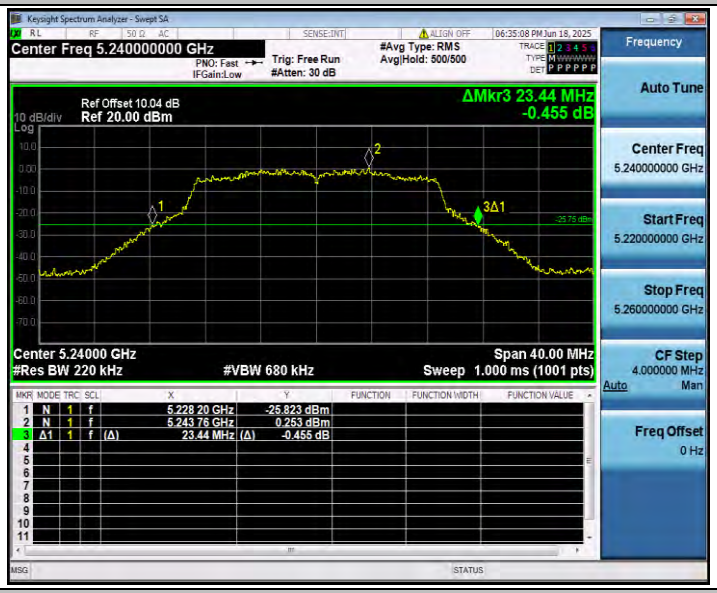


11AC20SISO_Ant2_5180

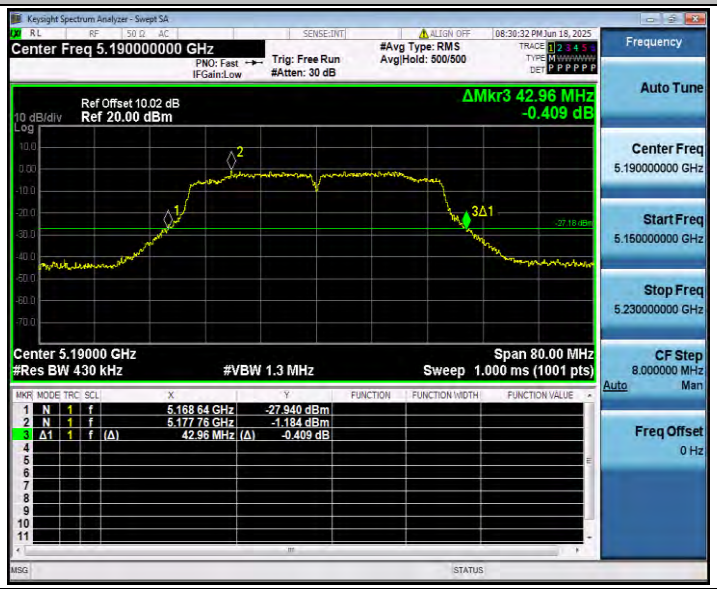


11AC20SISO_Ant2_5200

11AC20SISO_Ant2_5240



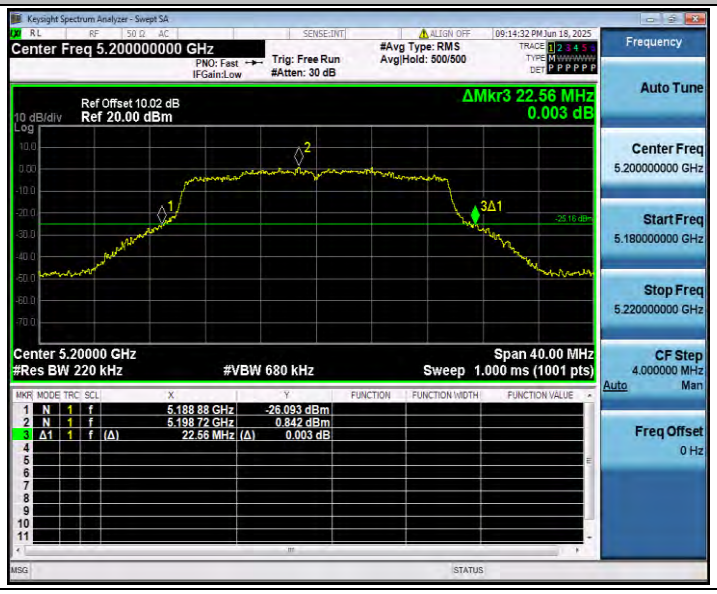
11AC40SISO_Ant2_5190



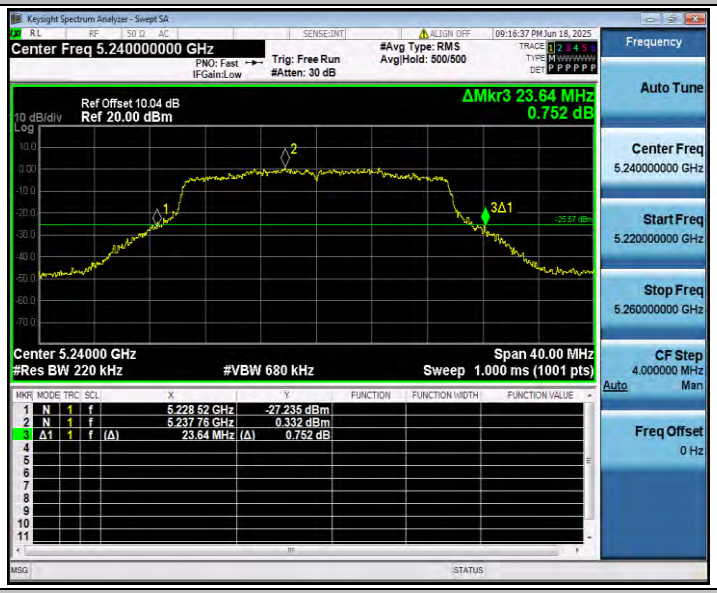
11AC40SISO_Ant2_5230

11AX20SISO_Ant2_5180

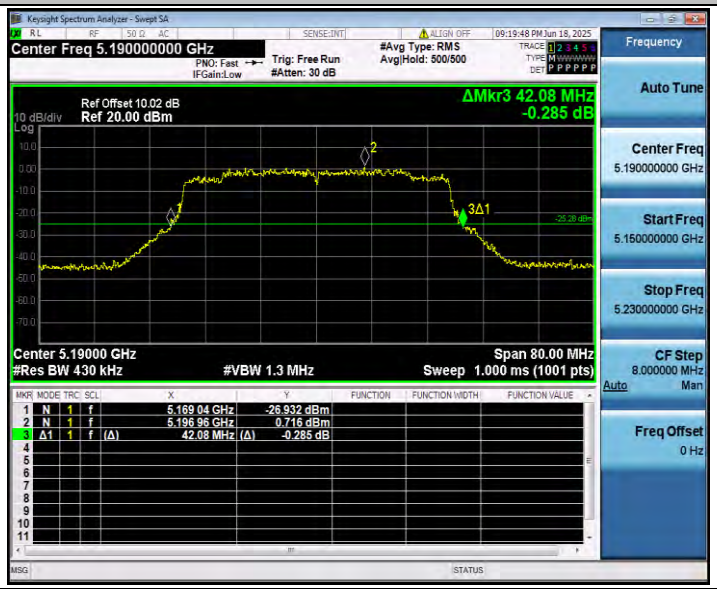
11AX20SISO_Ant2_5200



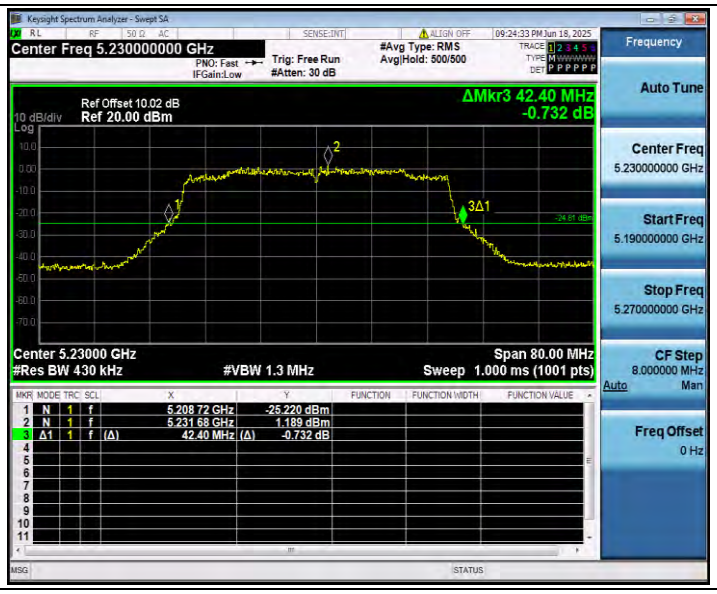
11AX20SISO_Ant2_5240



11AX40SISO_Ant2_5190



11AX40SISO_Ant2_5230


Keysight Spectrum Analyzer - Swept SA
Center Freq 5.230000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 500/500
09:24:33 PM Jun 18, 2025
Frequency
Auto Tune
Center Freq
5.230000000 GHz
Start Freq
5.190000000 GHz
Stop Freq
5.270000000 GHz
CF Step
8.000000 MHz
Auto
Man
Freq Offset
0 Hz
Ref Offset 10.02 dB
10 dB/div
Ref 20.00 dBm
Log
ΔMkr3 42.40 MHz
-0.732 dB
-24.61 dBm
Center 5.23000 GHz
#Res BW 430 kHz
#VBW 1.3 MHz
Span 80.00 MHz
Sweep 1.000 ms (1001 pts)
1 N 1 f 5.208 72 GHz -25.220 dBm
2 N 1 f 5.231 68 GHz 1.189 dBm
3 Δ1 1 f (Δ) 42.40 MHz (Δ) -0.732 dB
MSG
STATUS

Appendix D.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5180	17.014	5171.5209	5188.5349	---	---
		5200	16.954	5191.5543	5208.5083	---	---
		5240	17.024	5231.5150	5248.5390	---	---
11N20SISO	Ant2	5180	18.098	5170.9554	5189.0534	---	---
		5200	18.043	5191.0001	5209.0431	---	---
		5240	18.026	5230.9861	5249.0121	---	---
11N40SISO	Ant2	5190	36.256	5171.9649	5208.2209	---	---
		5230	36.245	5211.9441	5248.1891	---	---
11AC20SISO	Ant2	5180	18.006	5171.0126	5189.0186	---	---
		5200	17.979	5191.0290	5209.0080	---	---
		5240	18.025	5230.9890	5249.0140	---	---
11AC40SISO	Ant2	5190	36.205	5171.9702	5208.1752	---	---
		5230	36.242	5211.9416	5248.1836	---	---
11AX20SISO	Ant2	5180	19.011	5170.5137	5189.5247	---	---
		5200	19.012	5190.5253	5209.5373	---	---
		5240	18.999	5230.5319	5249.5309	---	---
11AX40SISO	Ant2	5190	37.596	5171.2986	5208.8946	---	---
		5230	37.654	5211.2237	5248.8777	---	---

Test Graphs

11A_Ant2_5180

11A_Ant2_5200

11A_Ant2_5240

11N20SISO_Ant2_5180

11N20SISO_Ant2_5200

11N20SISO_Ant2_5240

11N40SISO_Ant2_5190

11N40SISO_Ant2_5230

11AC20SISO_Ant2_5180

11AC20SISO_Ant2_5200

11AC20SISO_Ant2_5240

11AC40SISO_Ant2_5190

11AC40SISO_Ant2_5230

11AX20SISO_Ant2_5180

11AX20SISO_Ant2_5200

11AX20SISO_Ant2_5240

11AX40SISO_Ant2_5190

11AX40SISO_Ant2_5230

Keysight Spectrum Analyzer - Occupied BW
Center Freq 5.230000000 GHz
Center Freq: 5.230000000 GHz
Trig: Free Run
Avg|Hold: 500/500
#Atten: 30 dB
Radio Std: None
Radio Device: BTS
Frequency
Ref Offset 10.02 dB
10 dB/div
Ref 20.00 dBm
Mkr1 5.24064 GHz
4.1260 dBm
Center Freq
5.230000000 GHz
Center 5.23 GHz
#Res BW 820 kHz
#VBW 2.7 MHz
Span 80 MHz
Sweep 1 ms
CF Step
8.000000 MHz
Auto
Man
Occupied Bandwidth
37.654 MHz
Total Power 17.5 dBm
Transmit Freq Error 50.692 kHz
% of OBW Power 99.00 %
x dB Bandwidth 43.16 MHz
x dB -26.00 dB
Freq Offset
0 Hz
MSG
STATUS

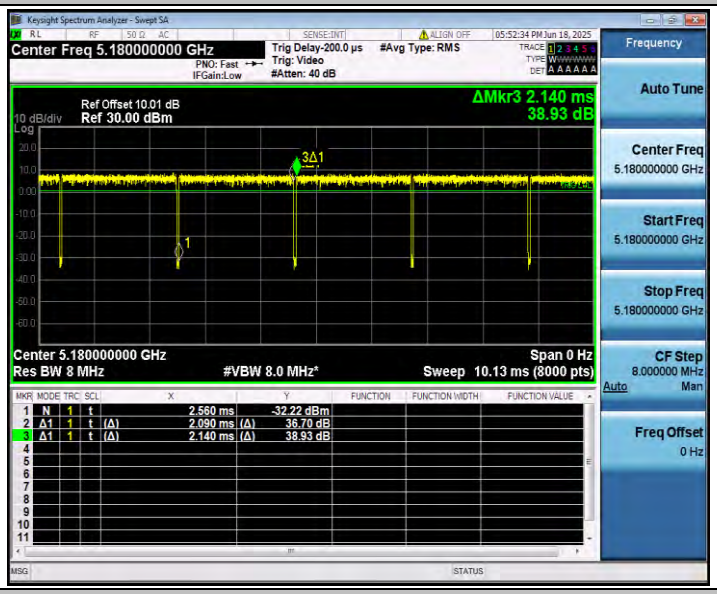
Appendix D.3: Duty Cycle

Test Result

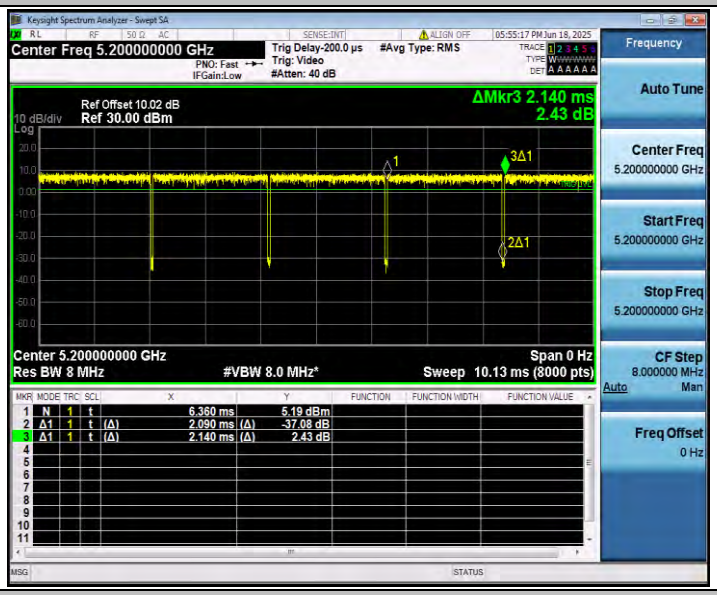
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant2	5180	2.09	2.14	97.66	0.10	0.48
		5200	2.09	2.14	97.66	0.10	0.48
		5240	2.09	2.14	97.66	0.10	0.48
11N20SISO	Ant2	5180	3.98	4.02	99.00	0.04	0.25
		5200	3.97	4.02	98.76	0.05	0.25
		5240	3.97	4.02	98.76	0.05	0.25
11N40SISO	Ant2	5190	3.98	4.03	98.76	0.05	0.25
		5230	3.97	4.02	98.76	0.05	0.25
11AC20SISO	Ant2	5180	3.95	3.99	99.00	0.04	0.25
		5200	3.95	3.99	99.00	0.04	0.25
		5240	3.94	3.99	98.75	0.05	0.25
11AC40SISO	Ant2	5190	3.96	4.00	99.00	0.04	0.25
		5230	3.96	4.01	98.75	0.05	0.25
11AX20SISO	Ant2	5180	3.99	4.03	99.01	0.04	0.25
		5200	3.98	4.03	98.76	0.05	0.25
		5240	3.98	4.03	98.76	0.05	0.25
11AX40SISO	Ant2	5190	3.98	4.03	98.76	0.05	0.25
		5230	3.99	4.04	98.76	0.05	0.25

Test Graphs

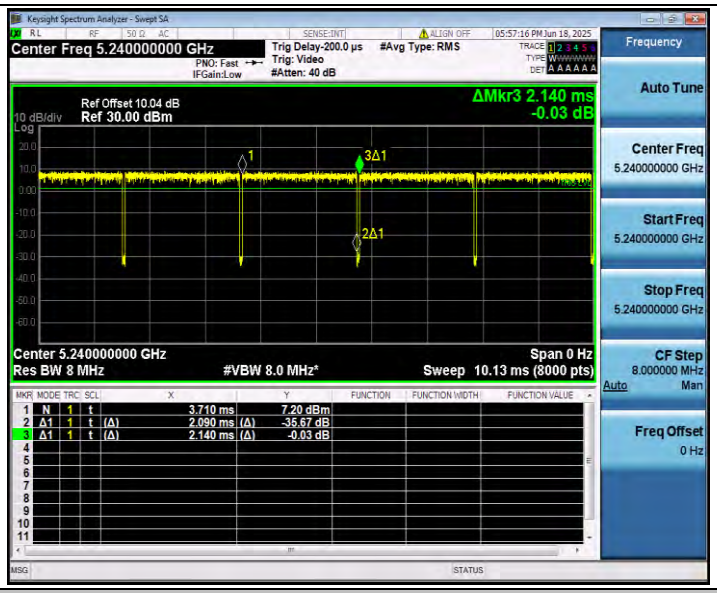
11A_Ant2_5180



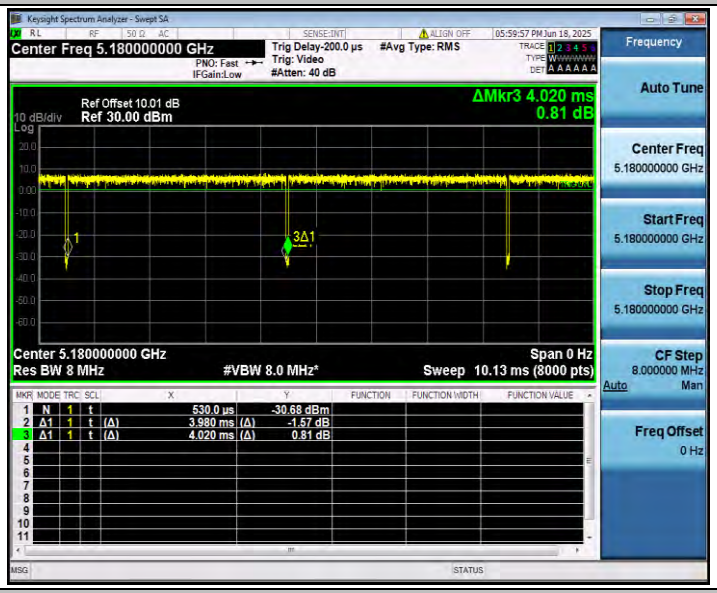
11A_Ant2_5200



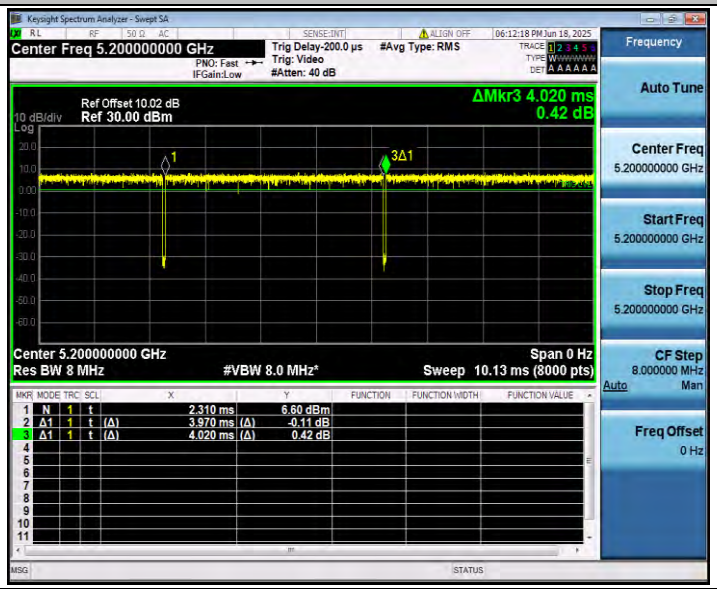
11A_Ant2_5240



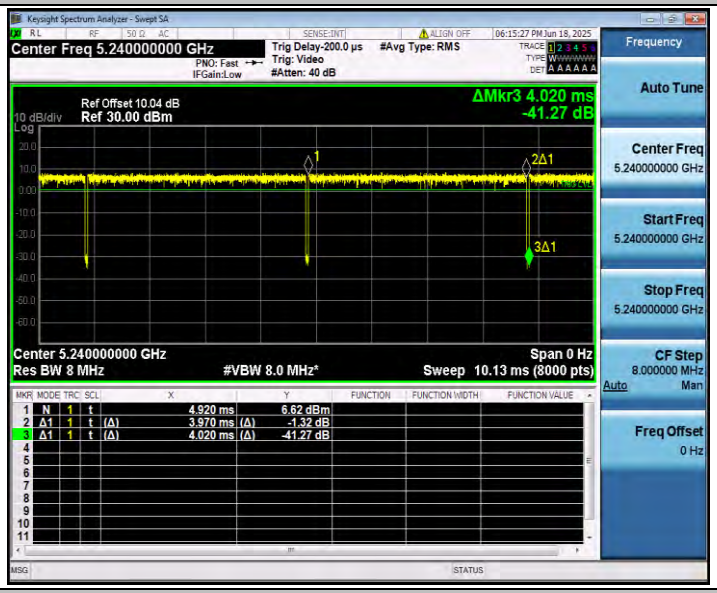
11N20SISO_Ant2_5180



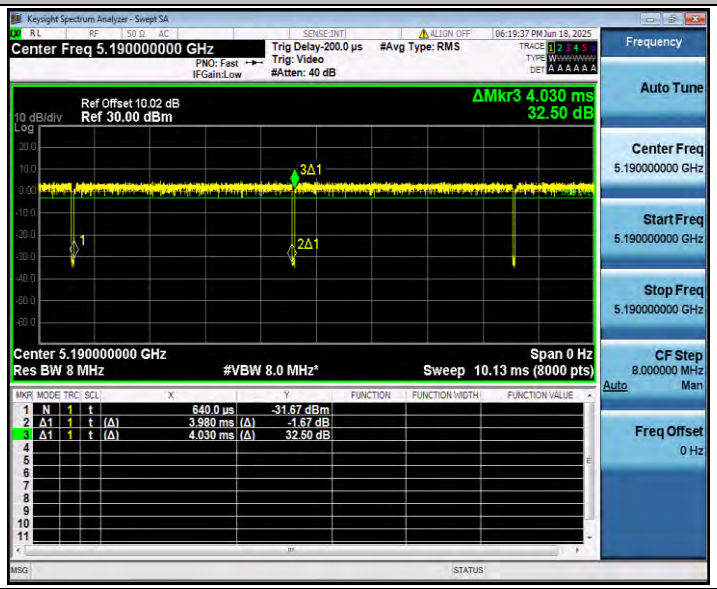
11N20SISO_Ant2_5200



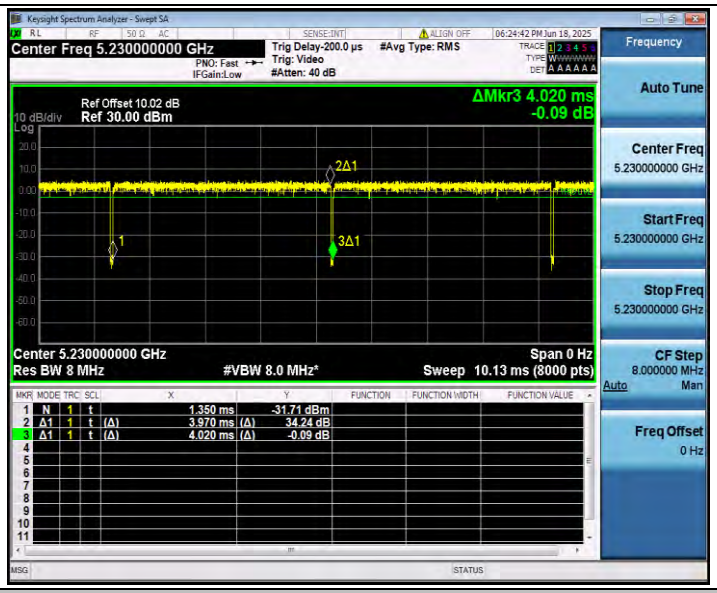
11N20SISO_Ant2_5240



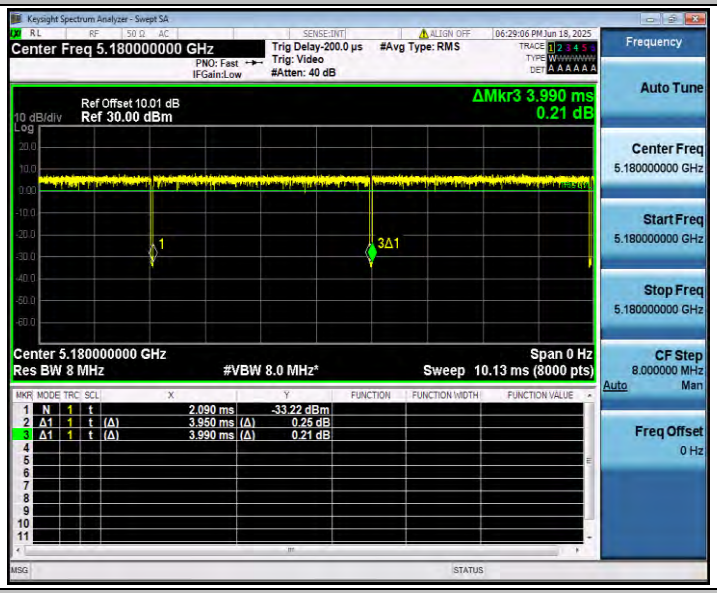
11N40SISO_Ant2_5190



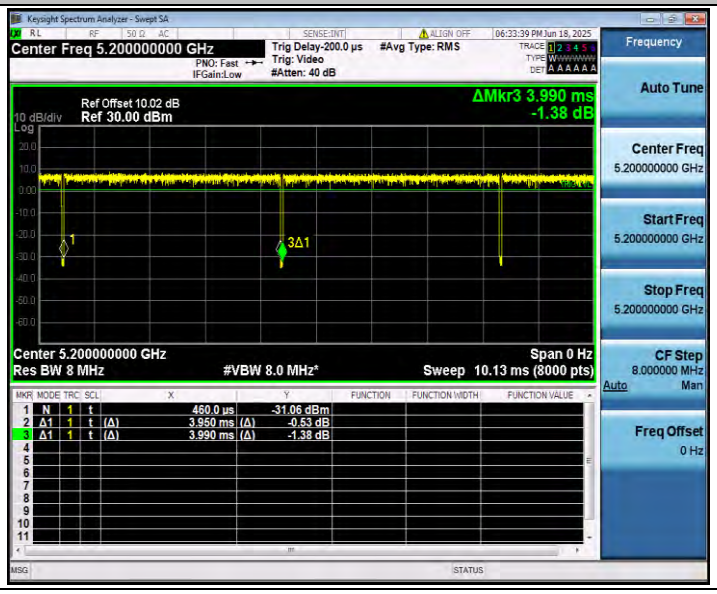
11N40SISO_Ant2_5230

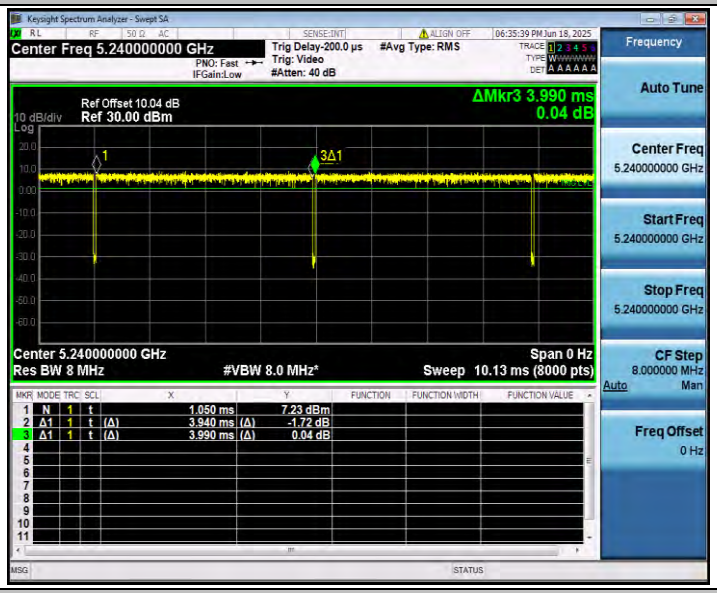
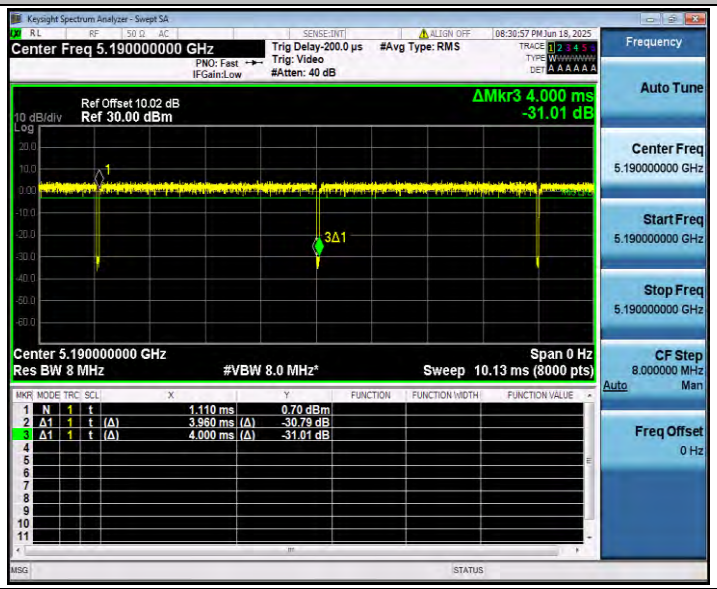


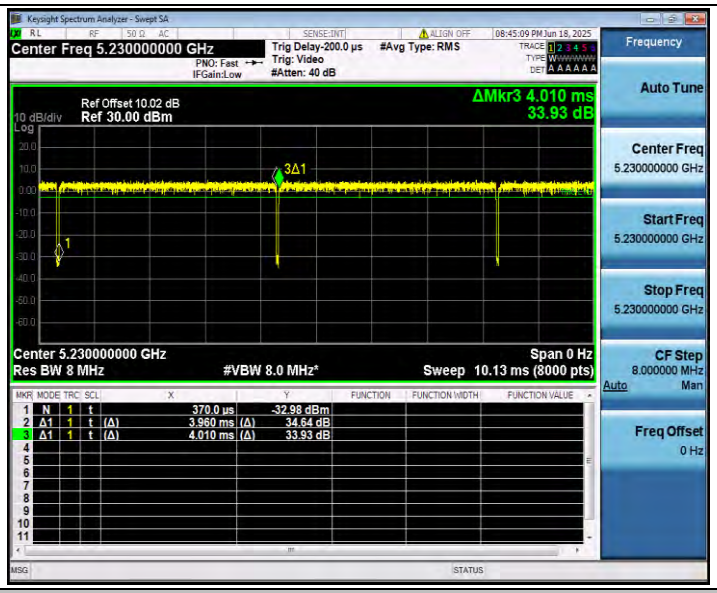
11AC20SISO_Ant2_5180



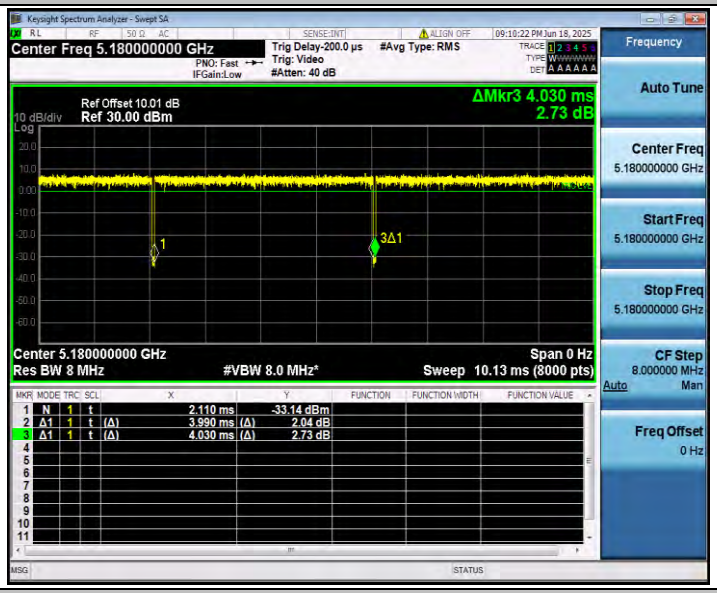
11AC20SISO_Ant2_5200



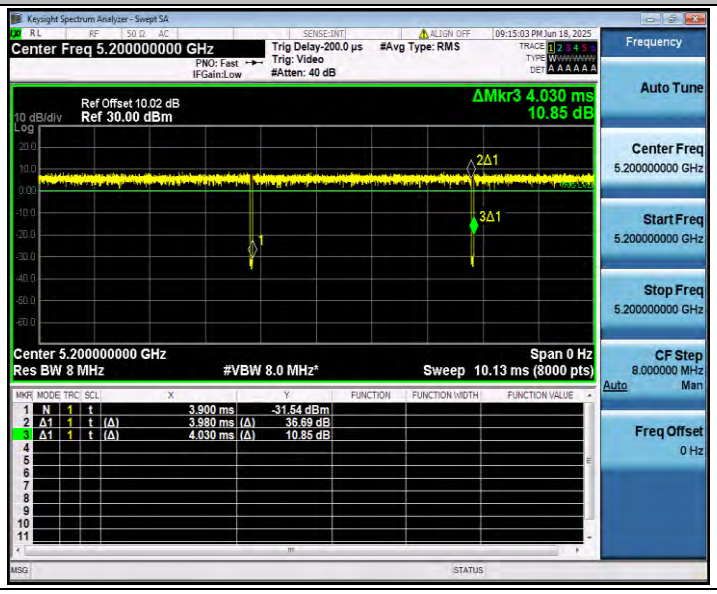
11AC20SISO_Ant2_5240

11AC40SISO_Ant2_5190

11AC40SISO_Ant2_5230



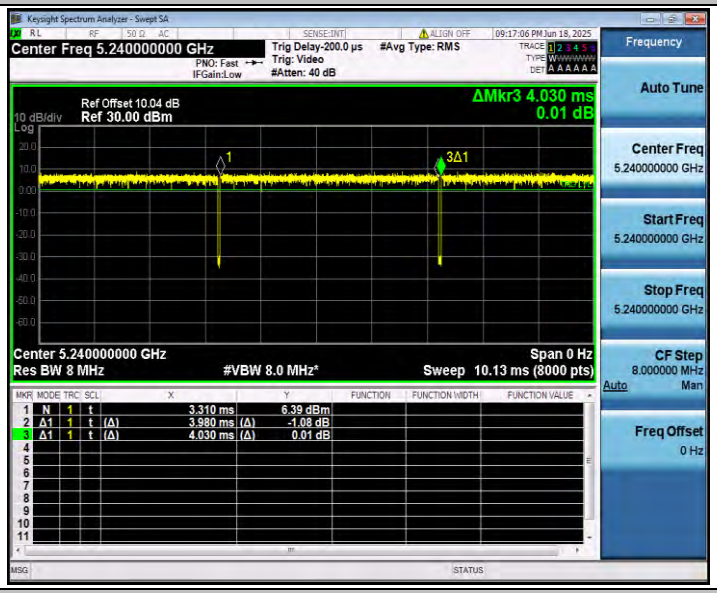
11AX20SISO_Ant2_5180



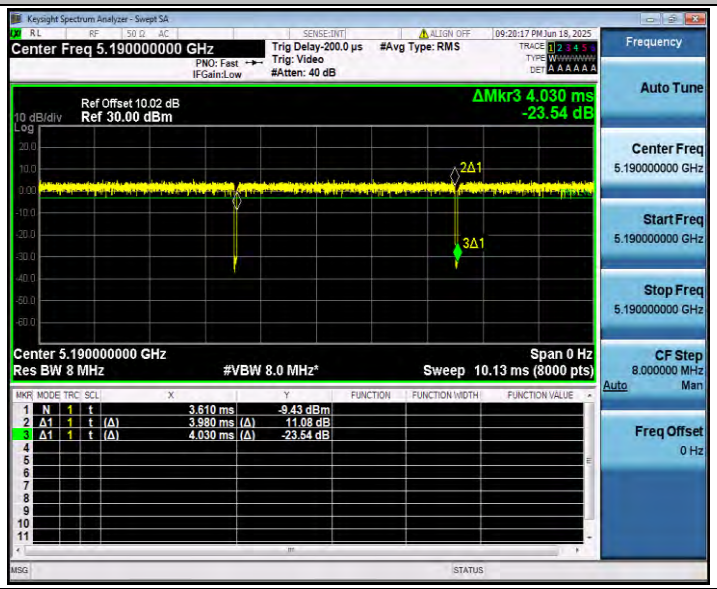
11AX20SISO_Ant2_5200



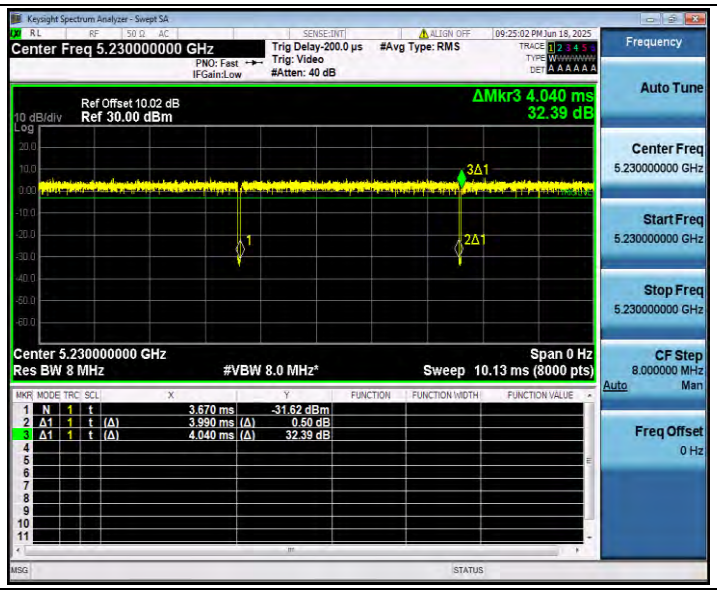
11AX20SISO_Ant2_5240



11AX40SISO_Ant2_5190



11AX40SISO_Ant2_5230


Keysight Spectrum Analyzer - Swept SA
Center Freq 5.230000000 GHz
Trig Delay-200.0 µs
#Avg Type: RMS
Trig: Video
#Atten: 40 dB
Ref Offset 10.02 dB
10 dB/div
Ref 30.00 dBm
ΔMkr3 4.040 ms
32.39 dB
Center 5.230000000 GHz
Span 0 Hz
Res BW 8 MHz
#VBW 8.0 MHz*
Sweep 10.13 ms (8000 pts)
1 N 1 t 3.670 ms -31.62 dBm
2 Δ1 1 t (Δ) 3.990 ms (Δ) 0.50 dB
3 Δ1 1 t (Δ) 4.040 ms (Δ) 32.39 dB
Frequency
Auto Tune
Center Freq
5.230000000 GHz
Start Freq
5.230000000 GHz
Stop Freq
5.230000000 GHz
CF Step
8.000000 MHz
Auto
Man
Freq Offset
0 Hz

Appendix D.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Freq(MHz)	Channel Powert [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant2	5180	8.47	97.66	0.10	8.57	≤23.98	PASS
		5200	9.05	97.66	0.10	9.15	≤23.98	PASS
		5240	9.24	97.66	0.10	9.34	≤23.98	PASS
11N20SISO	Ant2	5180	8.54	99.00	0.04	8.58	≤23.98	PASS
		5200	8.84	98.76	0.05	8.89	≤23.98	PASS
		5240	8.90	98.76	0.05	8.95	≤23.98	PASS
11N40SISO	Ant2	5190	8.51	98.76	0.05	8.56	≤23.98	PASS
		5230	8.95	98.76	0.05	9.00	≤23.98	PASS
11AC20SISO	Ant2	5180	8.36	99.00	0.04	8.40	≤23.98	PASS
		5200	8.80	99.00	0.04	8.84	≤23.98	PASS
		5240	8.94	98.75	0.05	8.99	≤23.98	PASS
11AC40SISO	Ant2	5190	8.60	99.00	0.04	8.64	≤23.98	PASS
		5230	8.89	98.75	0.05	8.94	≤23.98	PASS
11AX20SISO	Ant2	5180	8.21	99.01	0.04	8.25	≤23.98	PASS
		5200	8.59	98.76	0.05	8.64	≤23.98	PASS
		5240	8.78	98.76	0.05	8.83	≤23.98	PASS
11AX40SISO	Ant2	5190	8.28	98.76	0.05	8.33	≤23.98	PASS
		5230	8.74	98.76	0.05	8.79	≤23.98	PASS

Appendix D.5: Maximum power spectral density

Test Result

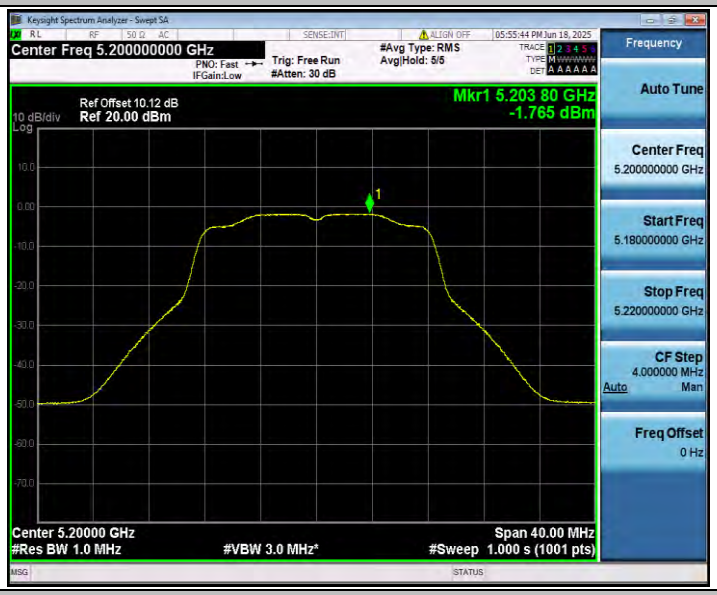
TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant2	5180	-2.27	≤11.00	PASS
		5200	-1.77	≤11.00	PASS
		5240	-1.54	≤11.00	PASS
11N20SISO	Ant2	5180	-2.56	≤11.00	PASS
		5200	-2.33	≤11.00	PASS
		5240	-2.22	≤11.00	PASS
11N40SISO	Ant2	5190	-5.69	≤11.00	PASS
		5230	-5.30	≤11.00	PASS
11AC20SISO	Ant2	5180	-2.88	≤11.00	PASS
		5200	-2.42	≤11.00	PASS
		5240	-2.11	≤11.00	PASS
11AC40SISO	Ant2	5190	-5.49	≤11.00	PASS
		5230	-5.32	≤11.00	PASS
11AX20SISO	Ant2	5180	-3.25	≤11.00	PASS
		5200	-2.72	≤11.00	PASS
		5240	-2.43	≤11.00	PASS
11AX40SISO	Ant2	5190	-6.05	≤11.00	PASS
		5230	-5.72	≤11.00	PASS

Note：1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

11A_Ant2_5180

11A_Ant2_5200



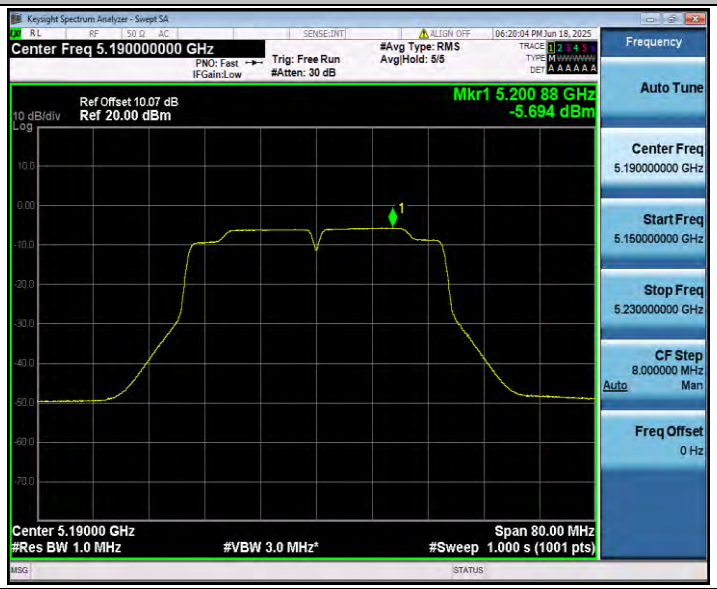
11A_Ant2_5240

11N20SISO_Ant2_5180

11N20SISO_Ant2_5200

11N20SISO_Ant2_5240

11N40SISO_Ant2_5190



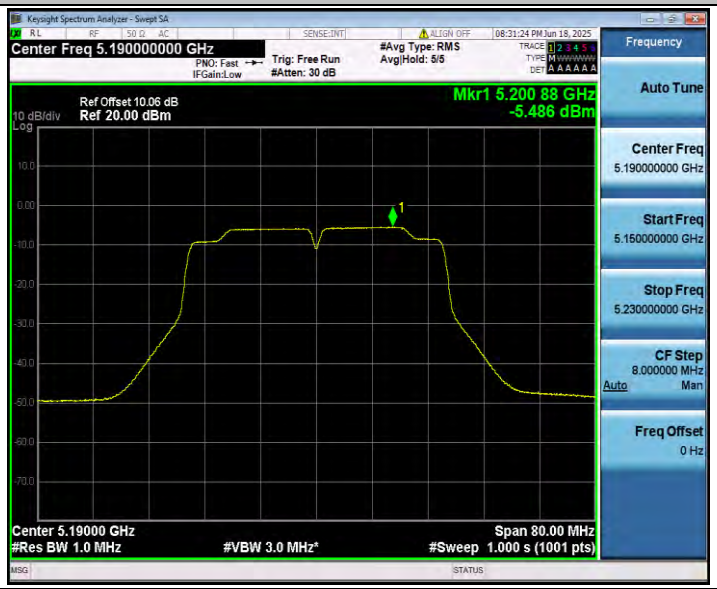
11N40SISO_Ant2_5230

11AC20SISO_Ant2_5180

11AC20SISO_Ant2_5200

11AC20SISO_Ant2_5240

11AC40SISO_Ant2_5190

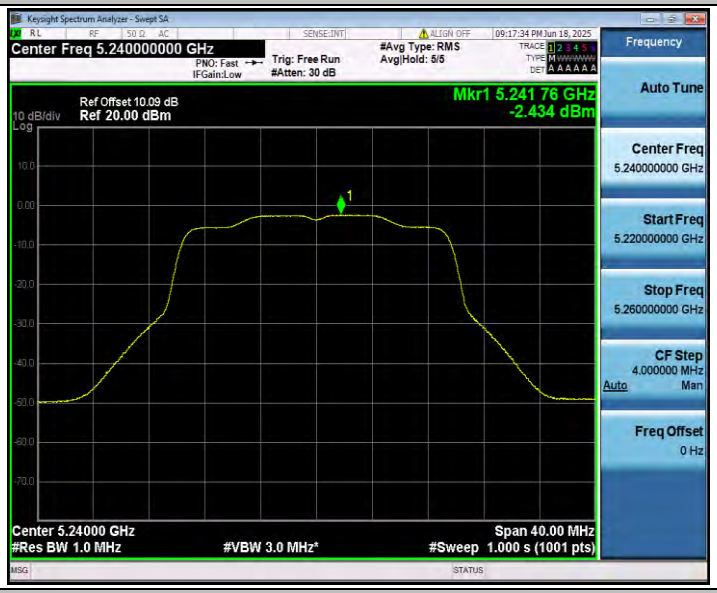


11AC40SISO_Ant2_5230

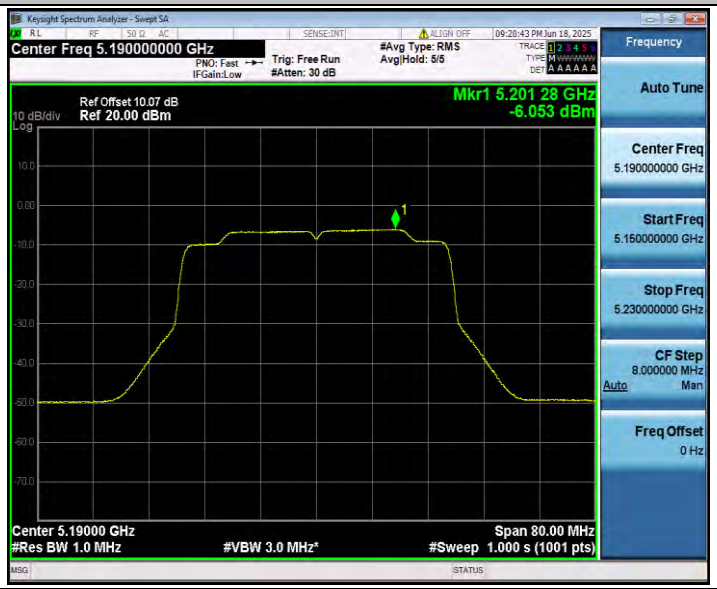
11AX20SISO_Ant2_5180

11AX20SISO_Ant2_5200

11AX20SISO_Ant2_5240



11AX40SISO_Ant2_5190



11AX40SISO_Ant2_5230

Keysight Spectrum Analyzer - Swept SA
Center Freq 5.230000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 5/5
Ref Offset 10.07 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 5.240 96 GHz
-5.723 dBm
Center 5.23000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz*
Span 80.00 MHz
#Sweep 1.000 s (1001 pts)
Frequency
Auto Tune
Center Freq
5.230000000 GHz
Start Freq
5.190000000 GHz
Stop Freq
5.270000000 GHz
CF Step
8.000000 MHz
Auto
Man
Freq Offset
0 Hz