

## Appendix B: Test Results of 2.4GHz SDR

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## Appendix B.1: Test Results of Conducted Power Spectral Density

### 2.4GHz SDR, 1.4MHz BW

SISO mode (Worst case\_ANT3)

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
1.4MHz	Ant3	2403.5	3.68	≤8.00	PASS
		2435.5	4.34	≤8.00	PASS
		2469.12	4.29	≤8.00	PASS

1.4MHz Ant3 2403.5



1.4MHz Ant3 2435.5



1.4MHz Ant3 2469.12



MIMO mode (Worst case\_ANT0+ANT2)

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
1.4MHz	Ant0	2403.5	1.59	≤8.00	PASS
	Ant2	2403.5	1.61	≤8.00	PASS
	total	2403.5	4.61	≤8.00	PASS
	Ant0	2435.5	1.14	≤8.00	PASS
	Ant2	2435.5	1.08	≤8.00	PASS
	total	2435.5	4.12	≤8.00	PASS
	Ant0	2469.12	1.43	≤8.00	PASS
	Ant2	2469.12	1.34	≤8.00	PASS
	total	2469.12	4.40	≤8.00	PASS

1.4MHz Ant0 2403.5



1.4MHz Ant2 2403.5



1.4MHz Ant0 2435.5



1.4MHz Ant2 2435.5



1.4MHz Ant0 2469.12



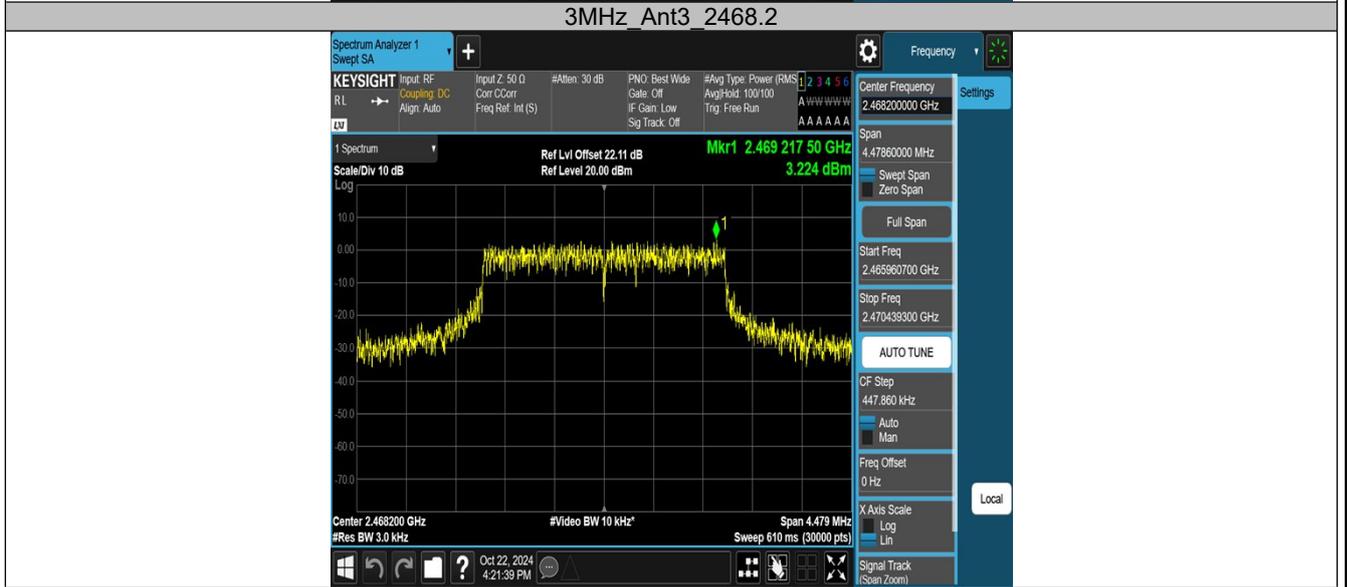
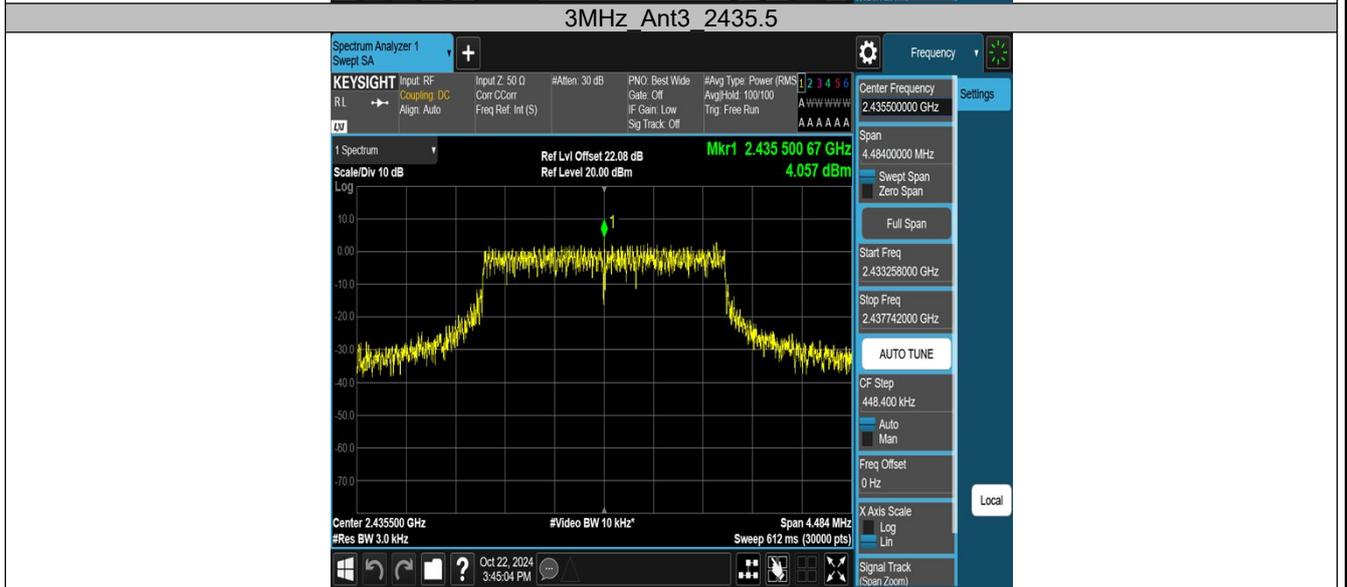
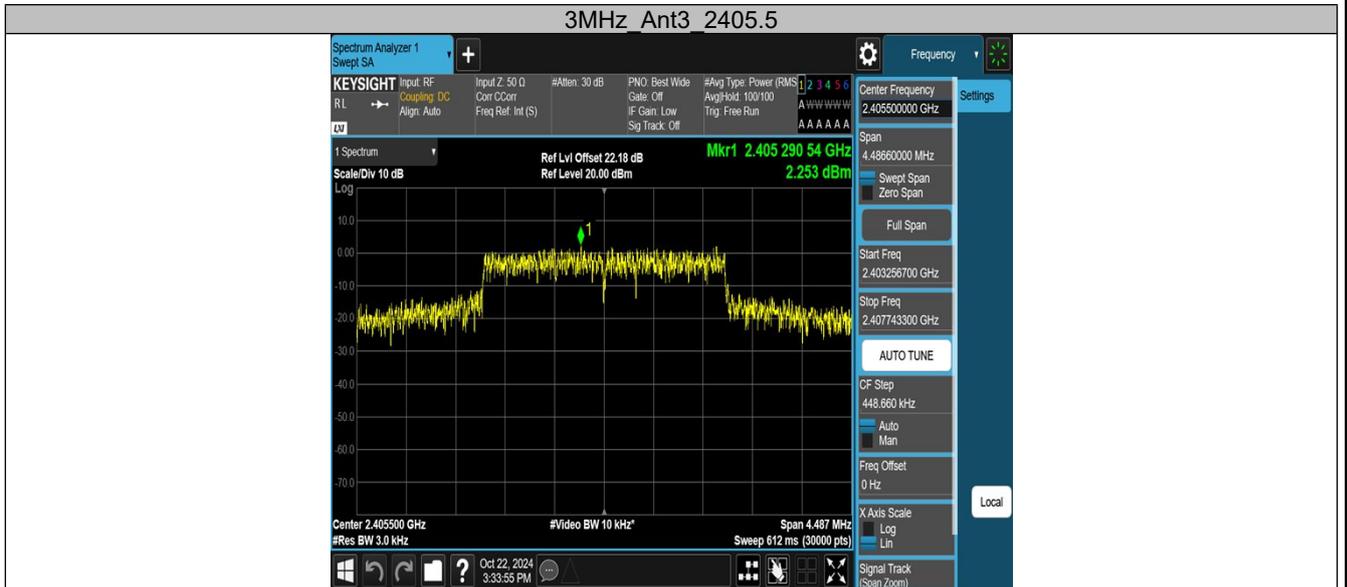
1.4MHz Ant2 2469.12



**2.4GHz SDR, 3MHz BW**

SISO mode (Worst case\_ANT3)

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
3MHz	Ant3	2405.5	2.25	≤8.00	PASS
		2435.5	4.06	≤8.00	PASS
		2468.2	3.22	≤8.00	PASS



MIMO mode (Worst case\_ANT0+ANT2)

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
3MHz	Ant0	2405.5	1.53	≤8.00	PASS
	Ant2	2405.5	1.36	≤8.00	PASS
	total	2405.5	4.46	≤8.00	PASS
	Ant0	2435.5	1.33	≤8.00	PASS
	Ant2	2435.5	1.43	≤8.00	PASS
	total	2435.5	4.39	≤8.00	PASS
	Ant0	2468.2	0.88	≤8.00	PASS
	Ant2	2468.2	1.08	≤8.00	PASS
	total	2468.2	3.99	≤8.00	PASS

3MHz\_Ant0\_2405.5



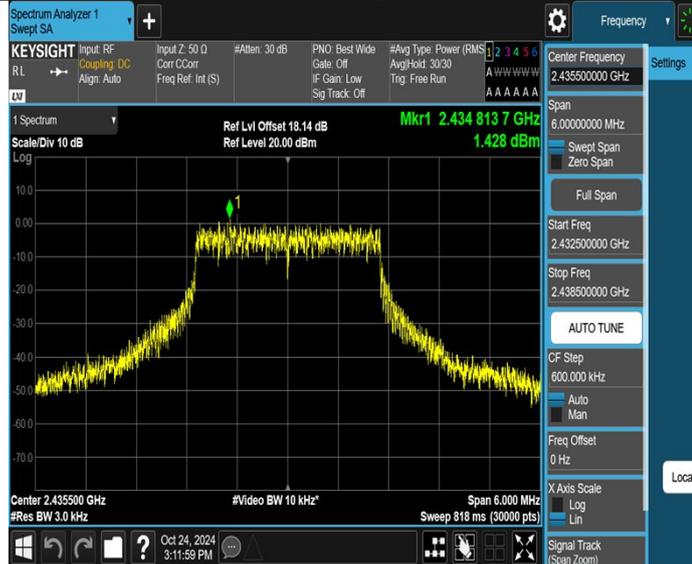
3MHz\_Ant2\_2405.5



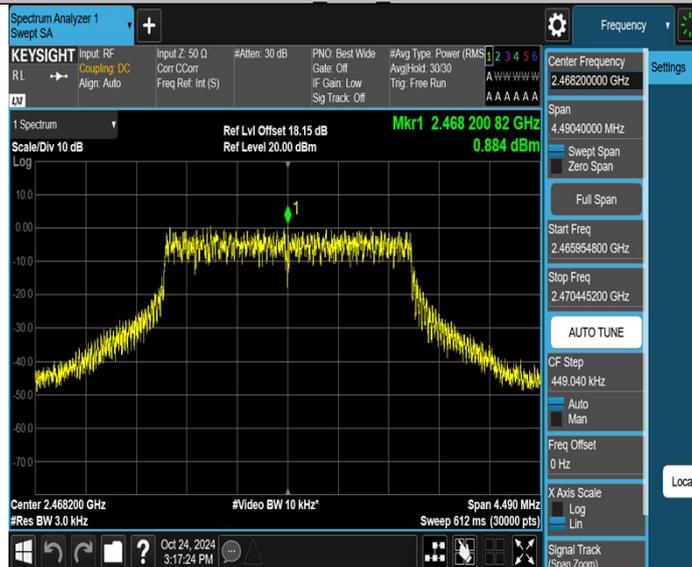
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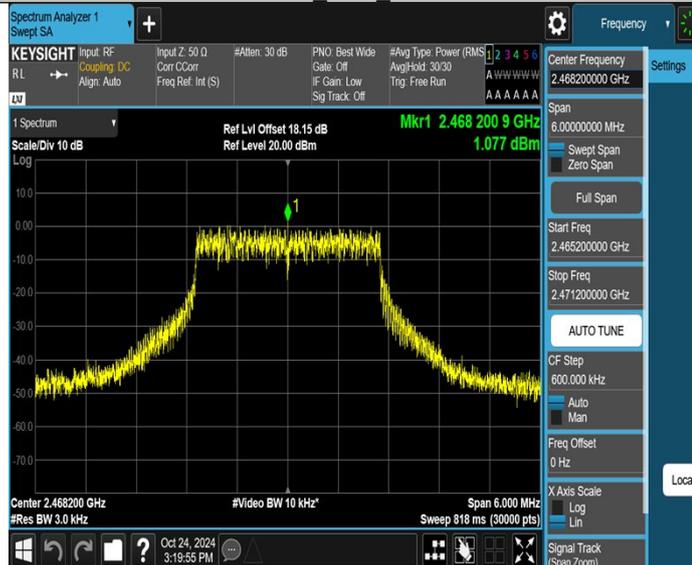
3MHz\_Ant2\_2435.5



3MHz\_Ant0\_2468.2



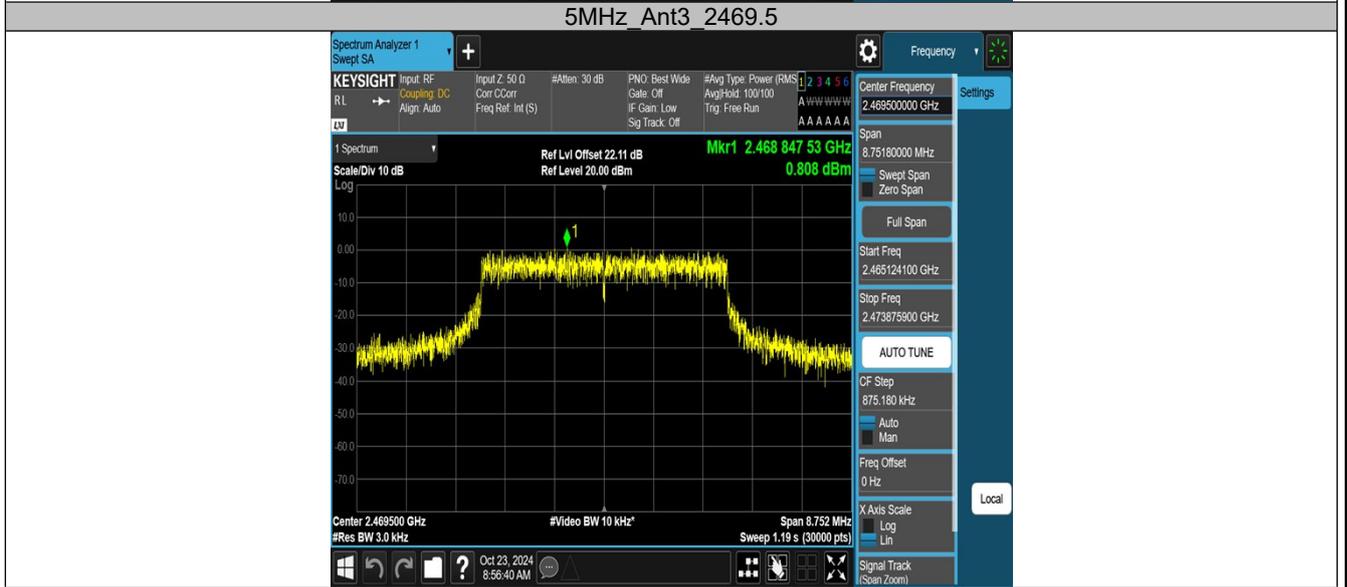
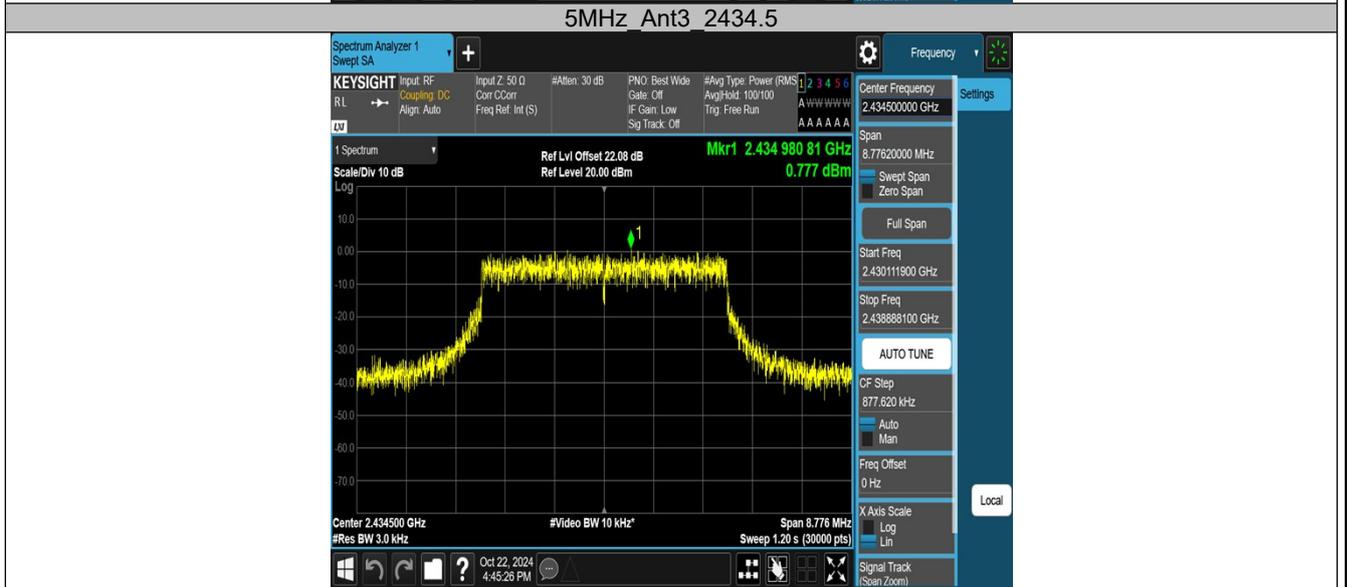
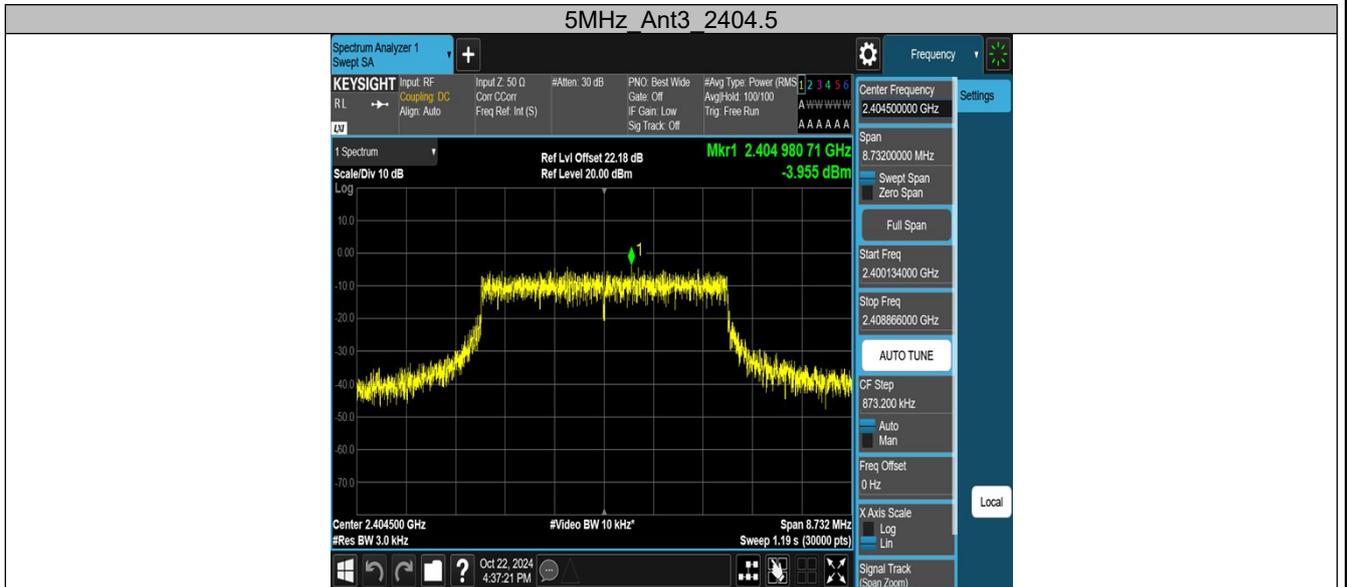
3MHz\_Ant2\_2468.2



**2.4GHz SDR, 5MHz BW**

SISO mode (Worst case\_ANT3)

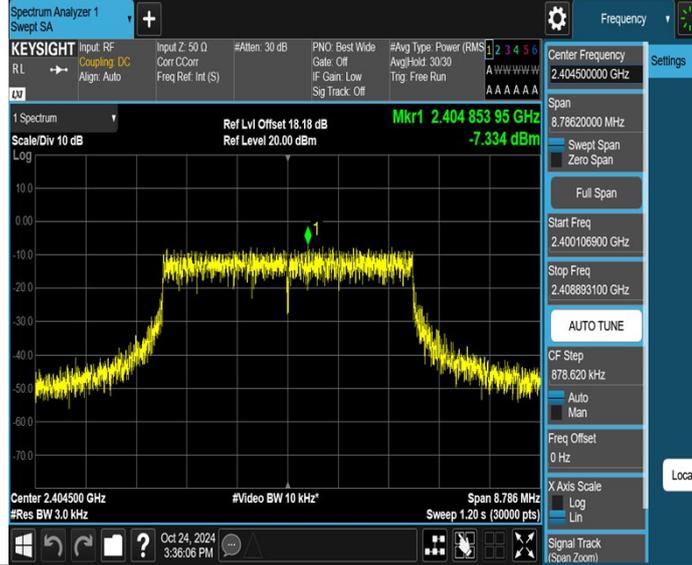
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
5MHz	Ant3	2404.5	-3.96	≤8.00	PASS
		2434.5	0.78	≤8.00	PASS
		2469.5	0.81	≤8.00	PASS



MIMO mode (Worst case\_ANT0+ANT2)

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
5MHz	Ant0	2404.5	-7.33	≤8.00	PASS
	Ant2	2404.5	-7.01	≤8.00	PASS
	total	2404.5	-4.16	≤8.00	PASS
	Ant0	2434.5	-1.85	≤8.00	PASS
	Ant2	2434.5	-1.29	≤8.00	PASS
	total	2434.5	1.45	≤8.00	PASS
	Ant0	2469.5	-0.96	≤8.00	PASS
	Ant2	2469.5	-1.09	≤8.00	PASS
	total	2469.5	1.99	≤8.00	PASS

5MHz\_Ant0\_2404.5



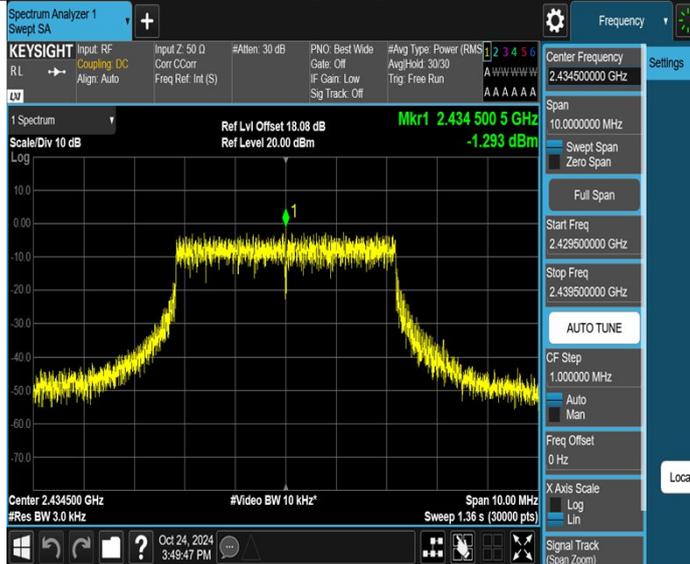
5MHz\_Ant2\_2404.5



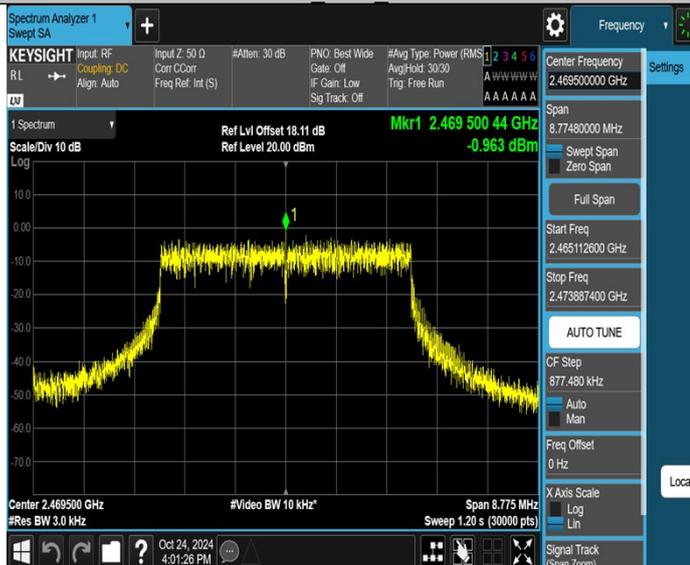
5MHz\_Ant0\_2434.5



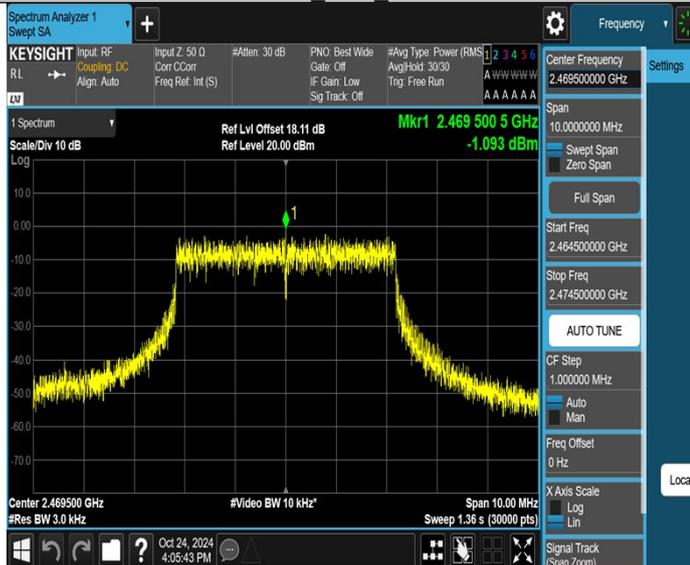
5MHz\_Ant2\_2434.5



5MHz\_Ant0\_2469.5



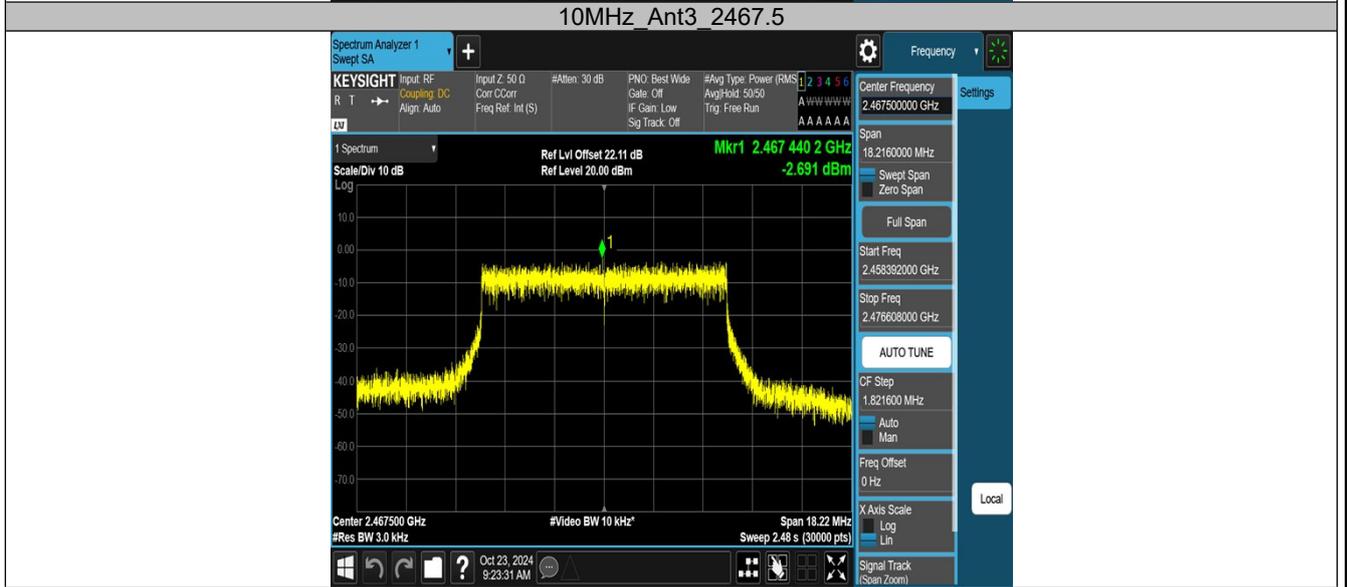
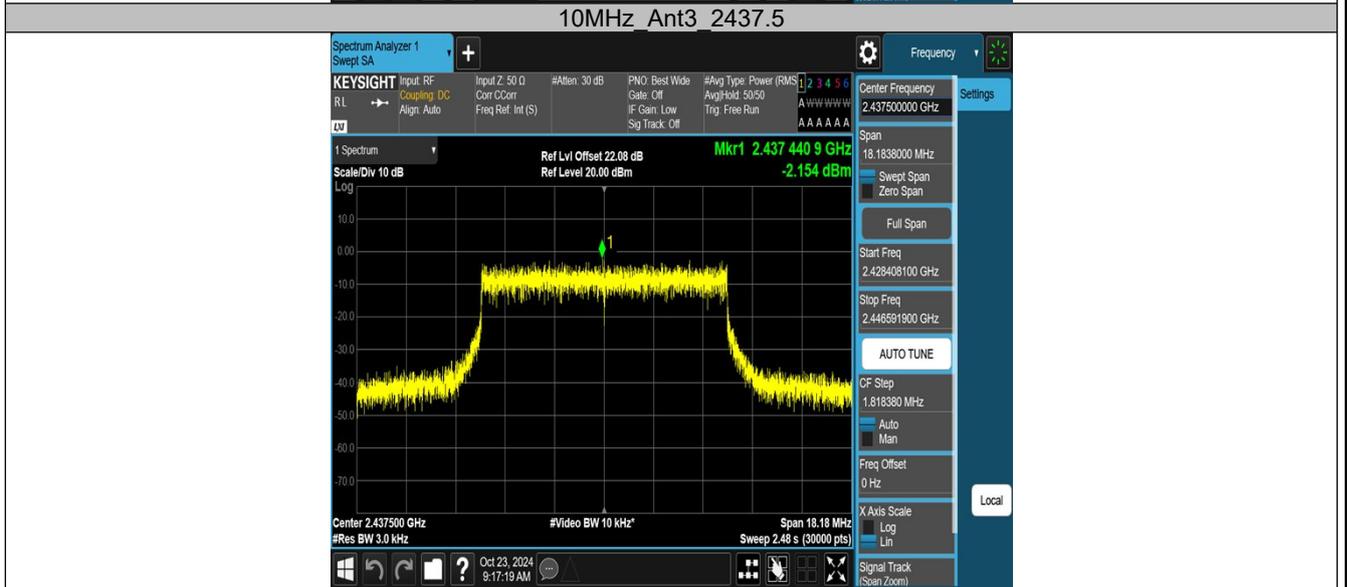
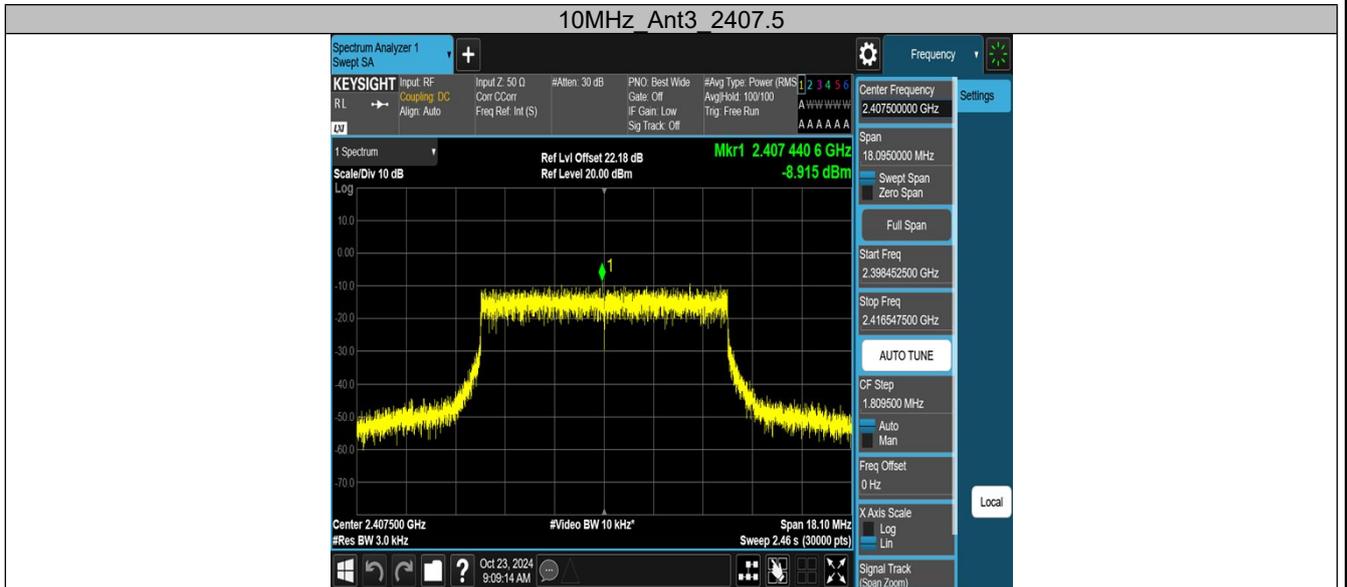
5MHz\_Ant2\_2469.5



**2.4GHz SDR, 10MHz BW**

SISO mode (Worst case\_ANT3)

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
10MHz	Ant3	2407.5	-8.92	≤8.00	PASS
		2437.5	-2.15	≤8.00	PASS
		2467.5	-2.69	≤8.00	PASS



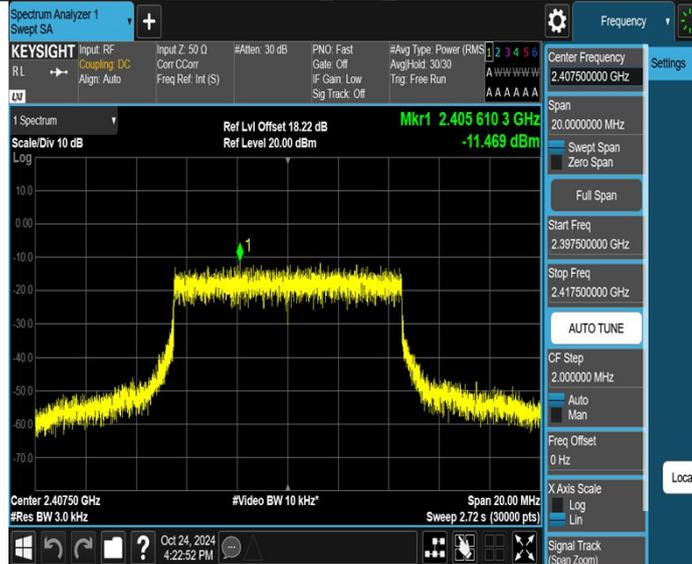
MIMO mode (Worst case\_ANT0+ANT2)

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
10MHz	Ant0	2407.5	-11.97	≤8.00	PASS
	Ant2	2407.5	-11.47	≤8.00	PASS
	total	2407.5	-8.70	≤8.00	PASS
	Ant0	2437.5	-6.44	≤8.00	PASS
	Ant2	2437.5	-6.02	≤8.00	PASS
	total	2437.5	-3.21	≤8.00	PASS
	Ant0	2467.5	-5.59	≤8.00	PASS
	Ant2	2467.5	-5.57	≤8.00	PASS
	total	2467.5	-2.57	≤8.00	PASS

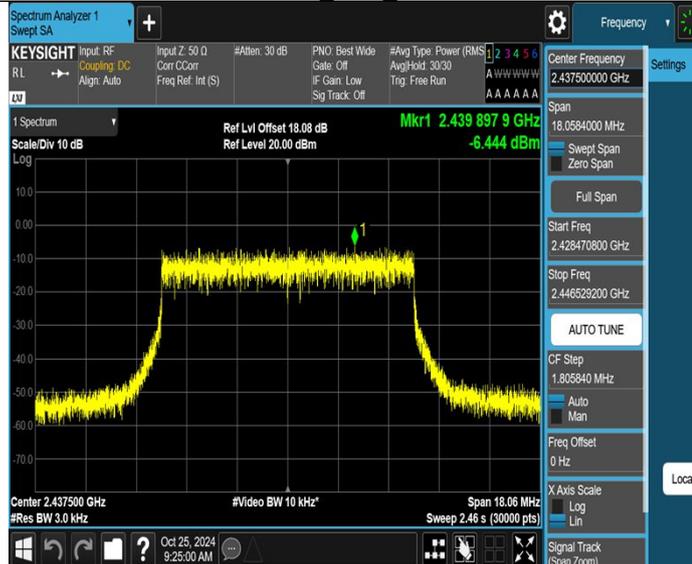
10MHz Ant0 2407.5



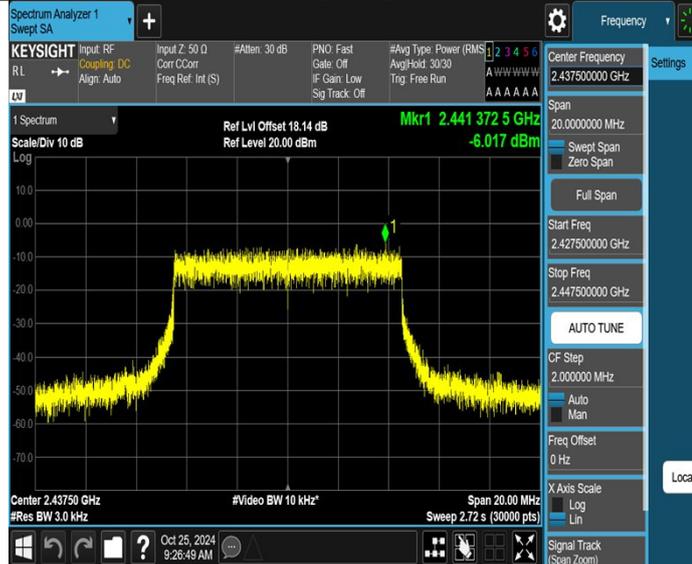
10MHz Ant2 2407.5



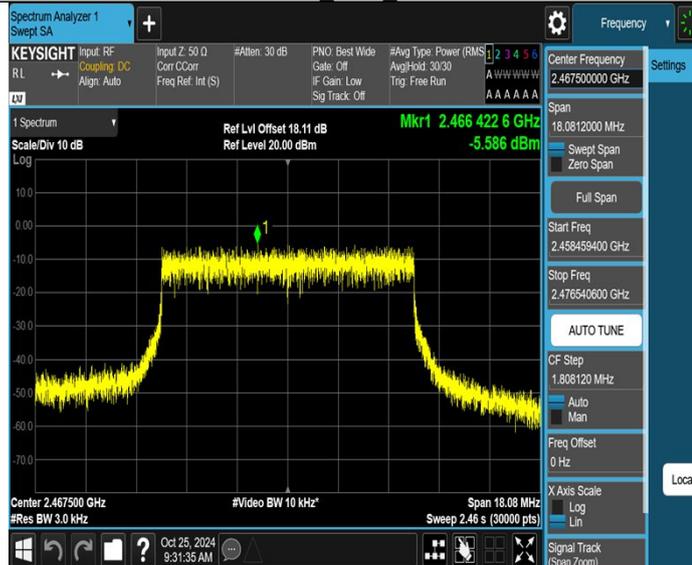
10MHz Ant0 2437.5



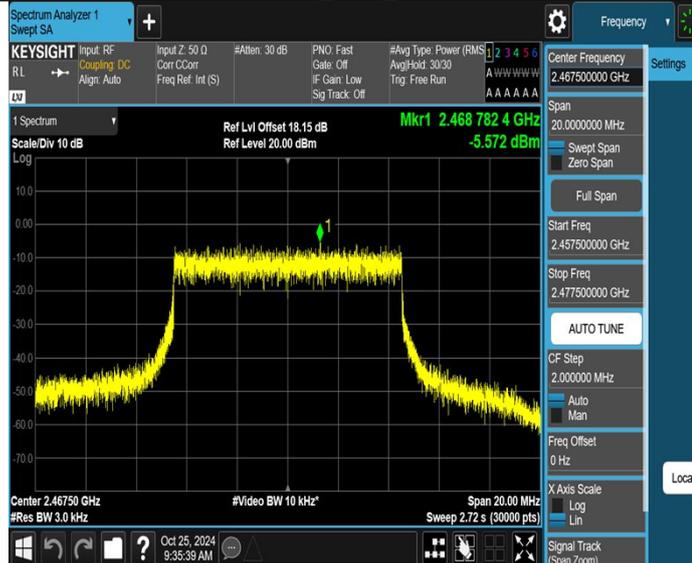
10MHz Ant2 2437.5



10MHz Ant0 2467.5



10MHz Ant2 2467.5

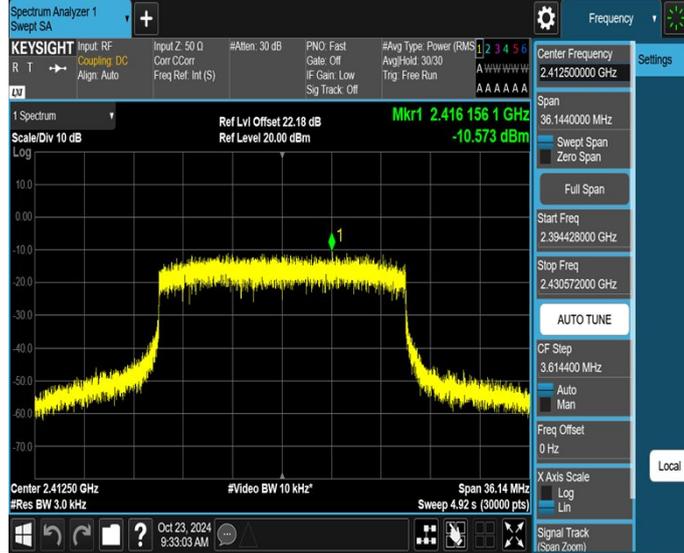


**2.4GHz SDR, 20MHz BW**

SISO mode (Worst case\_ANT3)

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
20MHz	Ant3	2412.5	-10.57	≤8.00	PASS
		2437.5	-5.61	≤8.00	PASS
		2462.5	-5.64	≤8.00	PASS

20MHz Ant3 2412.5



20MHz Ant3 2437.5



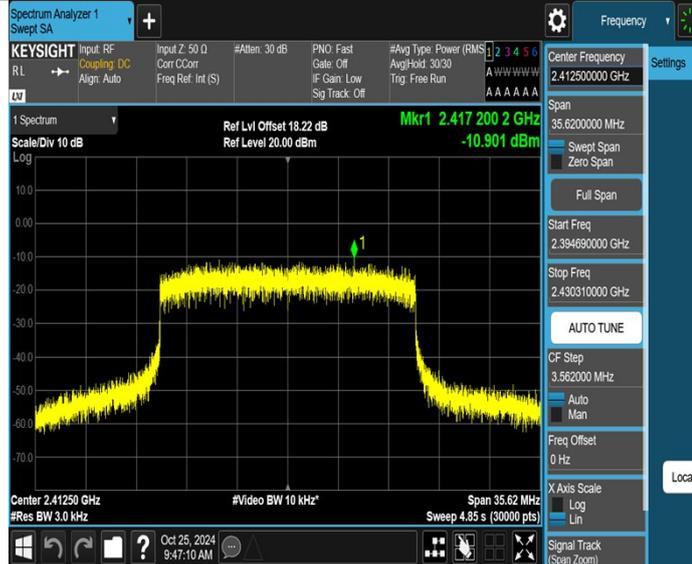
20MHz Ant3 2462.5



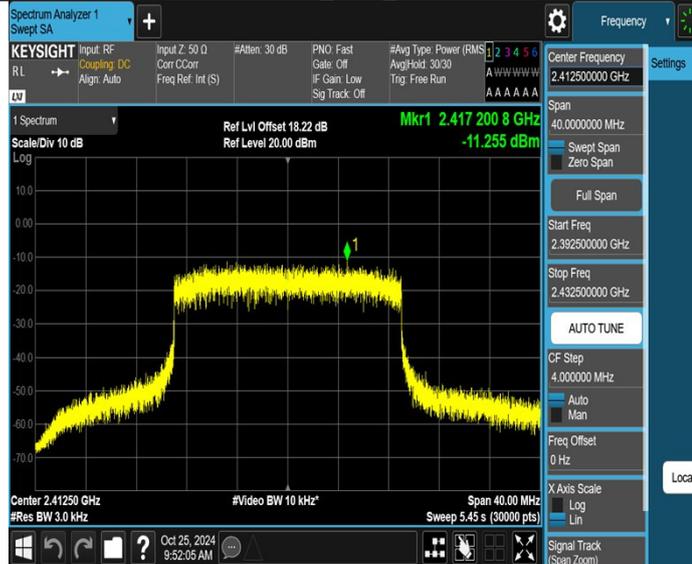
MIMO mode (Worst case\_ANT0+ANT2)

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
20MHz	Ant0	2412.5	-10.90	≤8.00	PASS
	Ant2	2412.5	-11.26	≤8.00	PASS
	total	2412.5	-8.07	≤8.00	PASS
	Ant0	2437.5	-8.48	≤8.00	PASS
	Ant2	2437.5	-8.12	≤8.00	PASS
	total	2437.5	-5.29	≤8.00	PASS
	Ant0	2462.5	-8.63	≤8.00	PASS
	Ant2	2462.5	-8.81	≤8.00	PASS
	total	2462.5	-5.71	≤8.00	PASS

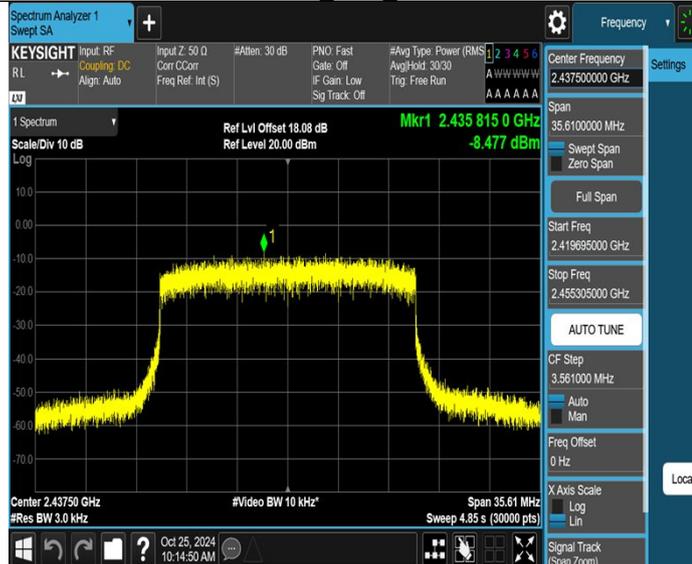
20MHz Ant0 2412.5



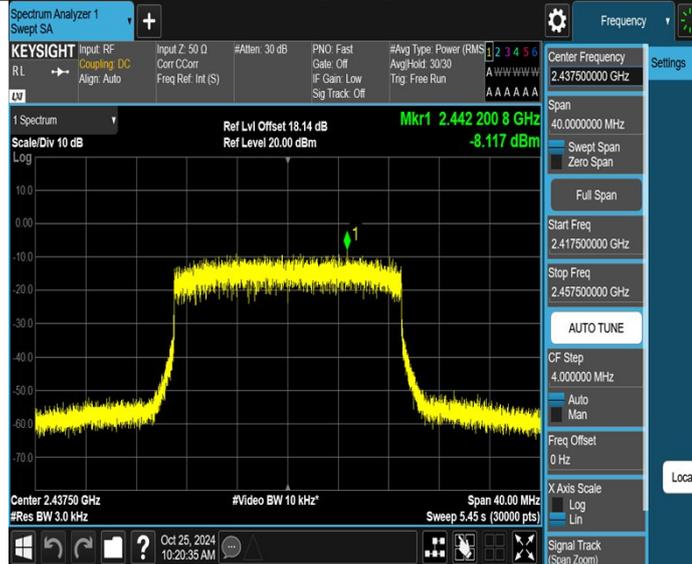
20MHz Ant2 2412.5



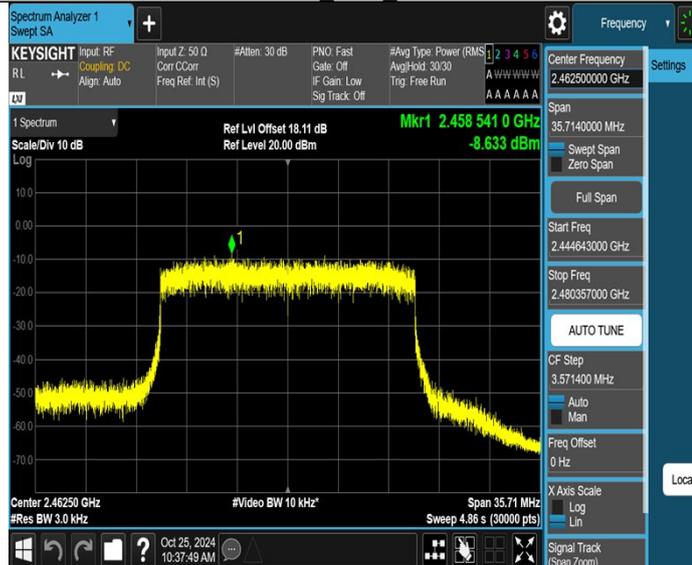
20MHz Ant0 2437.5



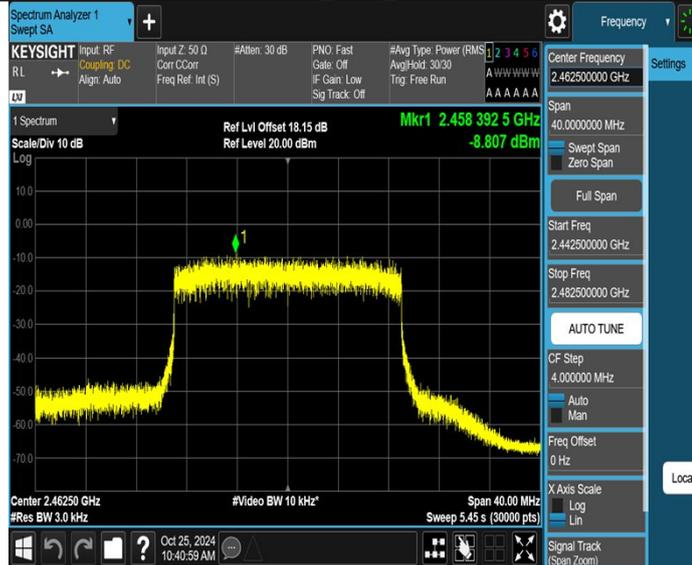
20MHz Ant2 2437.5



20MHz Ant0 2462.5



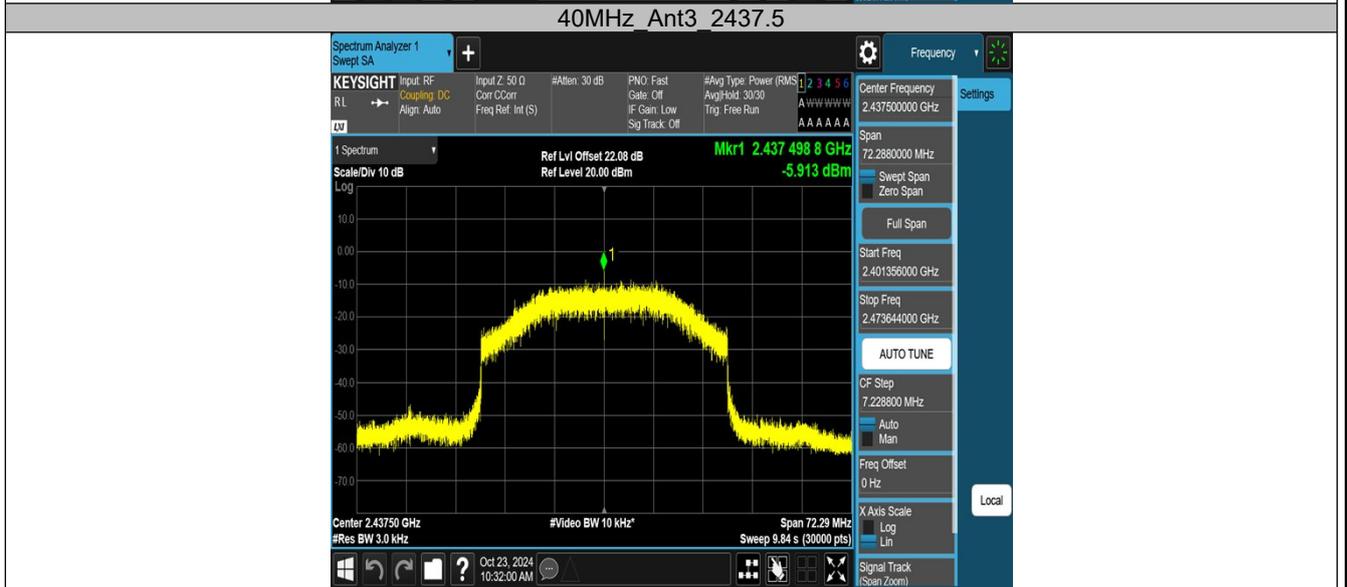
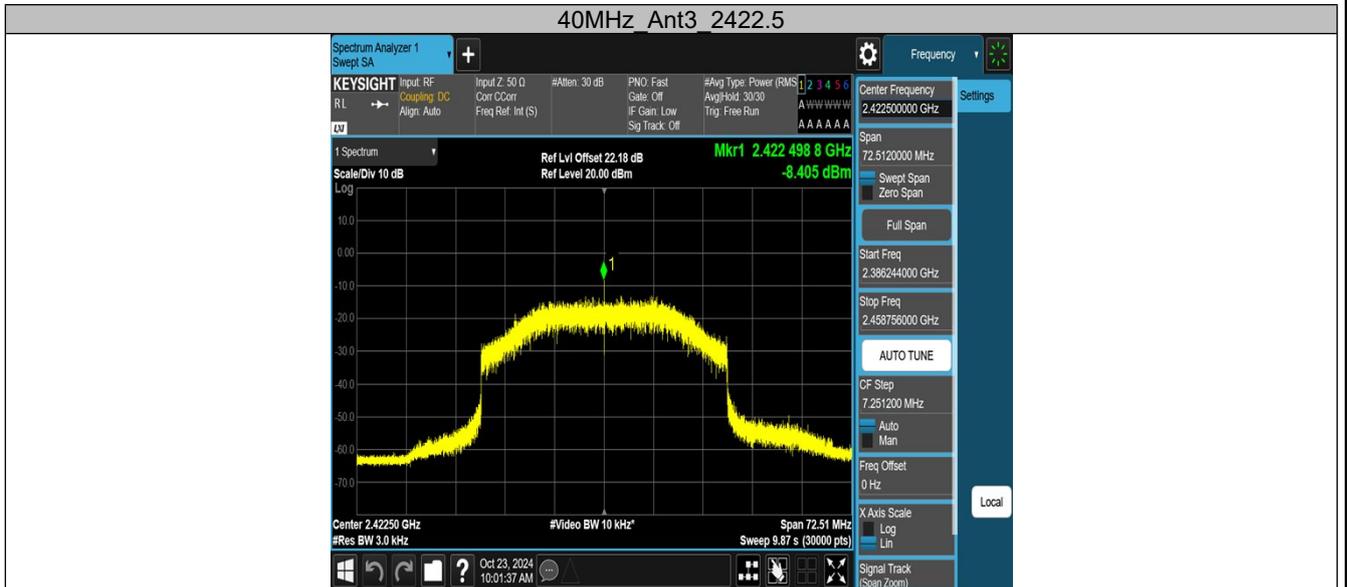
20MHz Ant2 2462.5



**2.4GHz SDR, 40MHz BW**

SISO mode (Worst case\_ANT3)

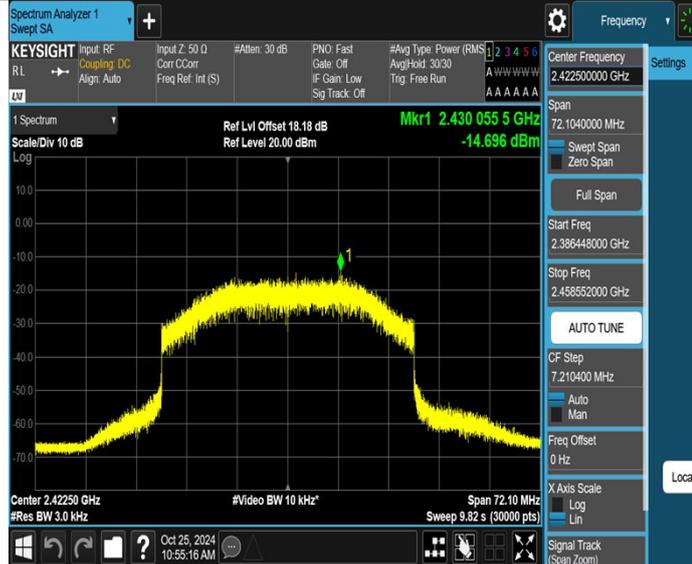
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
40MHz	Ant3	2422.5	-8.41	≤8.00	PASS
		2437.5	-5.91	≤8.00	PASS
		2452.5	-4.83	≤8.00	PASS



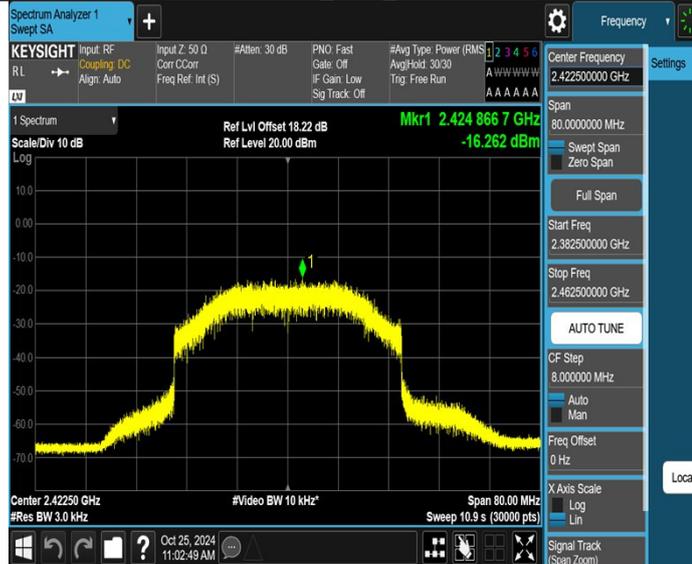
MIMO mode (Worst case\_ANT0+ANT2)

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
40MHz	Ant0	2422.5	-14.70	≤8.00	PASS
	Ant2	2422.5	-16.26	≤8.00	PASS
	total	2422.5	-12.40	≤8.00	PASS
	Ant0	2437.5	-11.53	≤8.00	PASS
	Ant2	2437.5	-12.72	≤8.00	PASS
	total	2437.5	-9.07	≤8.00	PASS
	Ant0	2452.5	-10.69	≤8.00	PASS
	Ant2	2452.5	-11.11	≤8.00	PASS
	total	2452.5	-7.88	≤8.00	PASS

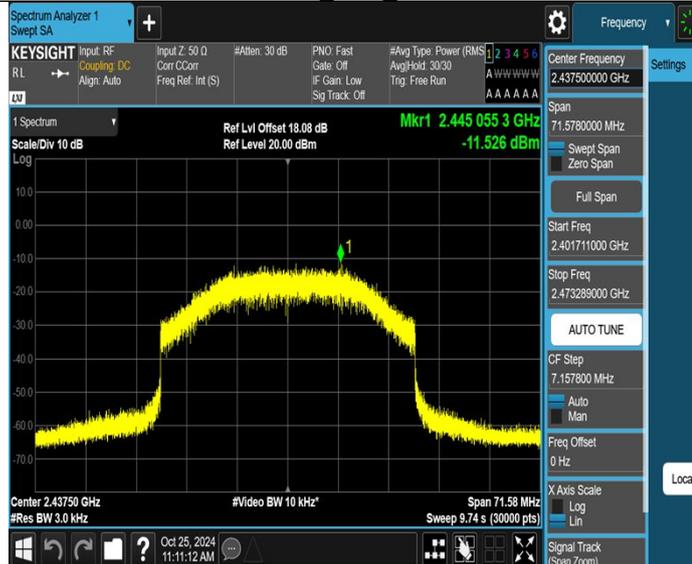
40MHz Ant0 2422.5



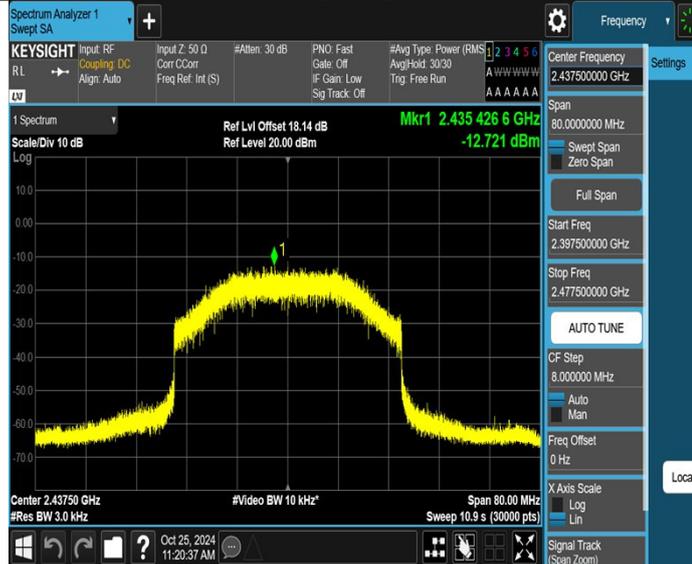
40MHz Ant2 2422.5



40MHz Ant0 2437.5



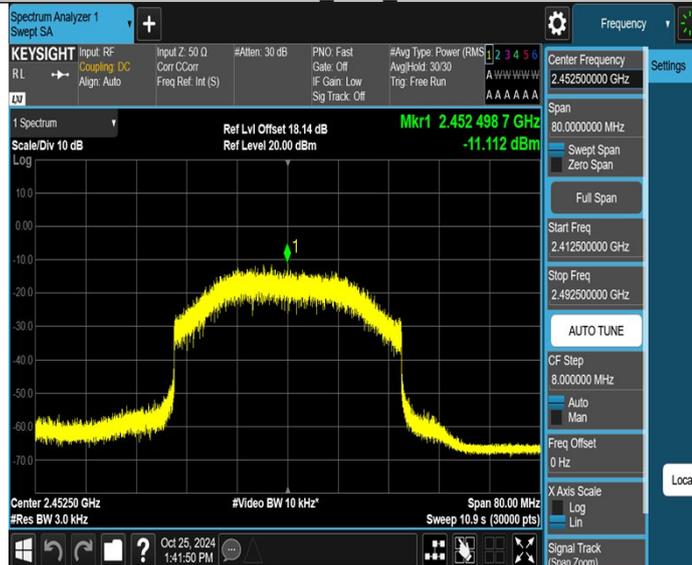
40MHz Ant2 2437.5



40MHz Ant0 2452.5



40MHz Ant2 2452.5



**2.4GHz SDR, 60MHz BW**

SISO mode (Worst case\_ANT3)

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
60MHz	Ant3	2432.5	-14.30	≤8.00	PASS
		2437.5	-13.33	≤8.00	PASS
		2442.5	-9.19	≤8.00	PASS