

Appendix A: Test Results of 5.8G SDR

APPENDIX A: TEST RESULTS OF 5.8G SDR	1
APPENDIX A.1: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY	2
5.8G SDR, 1.4MHz BW	2
5.8G SDR, 1.4MHz BW CA mode	5
5.8G SDR, 3MHz BW	8
5.8G SDR, 3MHz BW CA mode	11
5.8G SDR, 10MHz BW	14
5.8G SDR, 20MHz BW	17
5.8G SDR, 40MHz BW	20
APPENDIX A.2: TEST RESULTS OF FREQUENCY STABILITY	23
APPENDIX A.3: TEST RESULTS OF 6DB BANDWIDTH	24
5.8G SDR, 1.4MHz BW	24
5.8G SDR, 1.4MHz BW CA mode	25
5.8G SDR, 3MHz BW	26
5.8G SDR, 3MHz BW CA mode	27
5.8G SDR, 10MHz BW	28
5.8G SDR, 20MHz BW	29
5.8G SDR, 40MHz BW	30
APPENDIX A.4: TEST RESULTS OF 99% BANDWIDTH	31
5.8G SDR, 1.4MHz BW	31
5.8G SDR, 1.4MHz BW CA mode	32
5.8G SDR, 3MHz BW	33
5.8G SDR, 3MHz BW CA mode	34
5.8G SDR, 10MHz BW	35
5.8G SDR, 20MHz BW	36
5.8G SDR, 40MHz BW	37
APPENDIX A.5: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS	38
30MHz - 1GHz (Worst case)	38
1GHz - 18GHz	40
APPENDIX A.6: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS	68
5.8G SDR, 1.4MHz BW	68
5.8G SDR, 1.4MHz BW CA mode	72
5.8G SDR, 3MHz BW	76
5.8G SDR, 3MHz BW CA mode	80
5.8G SDR, 10MHz BW	84
5.8G SDR, 20MHz BW	88
5.8G SDR, 40MHz BW	92
APPENDIX A.7: TEST RESULTS OF CONDUCTED EMISSION ON AC MAINS	100

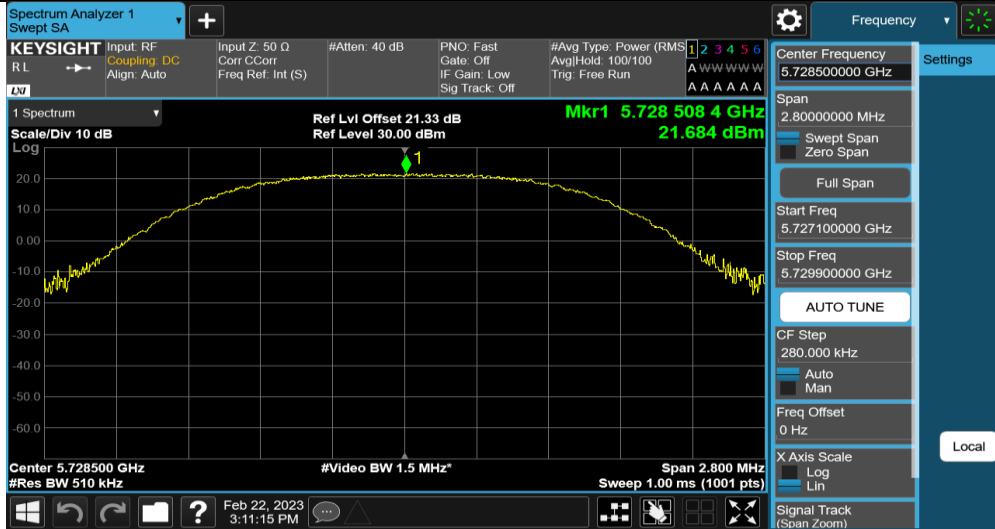
Appendix A.1: Test Results of Conducted Power Spectral Density

5.8G SDR, 1.4MHz BW

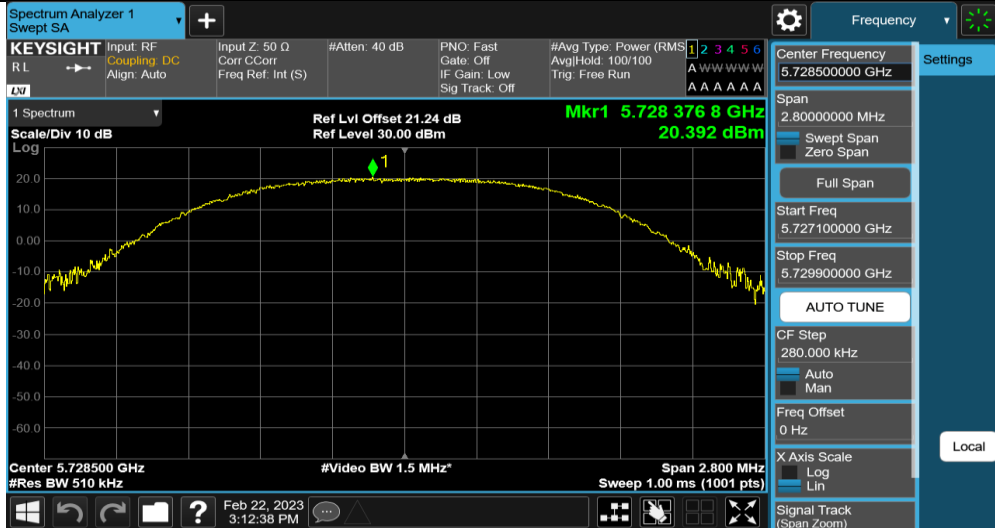
TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
1.4M-MIMO	Ant1	5728.5	21.68	≤30.00	PASS
	Ant2		20.39	≤30.00	PASS
	Total		24.09	≤30.00	PASS
	Ant1	5786.5	21.14	≤30.00	PASS
	Ant2		20.60	≤30.00	PASS
	Total		23.89	≤30.00	PASS
	Ant1	5846.5	21.67	≤30.00	PASS
	Ant2		20.96	≤30.00	PASS
	Total		24.34	≤30.00	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.

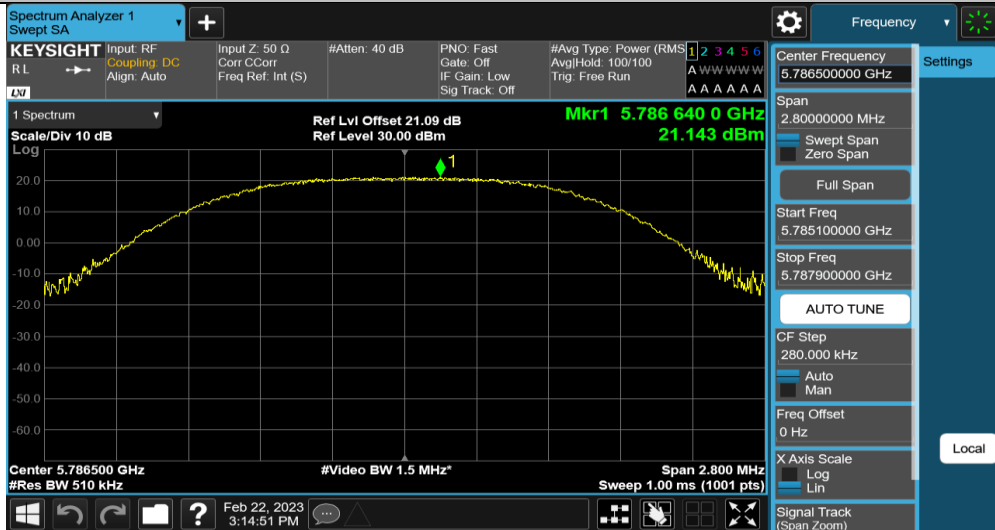
1.4M-MIMO_Ant1_5728.5



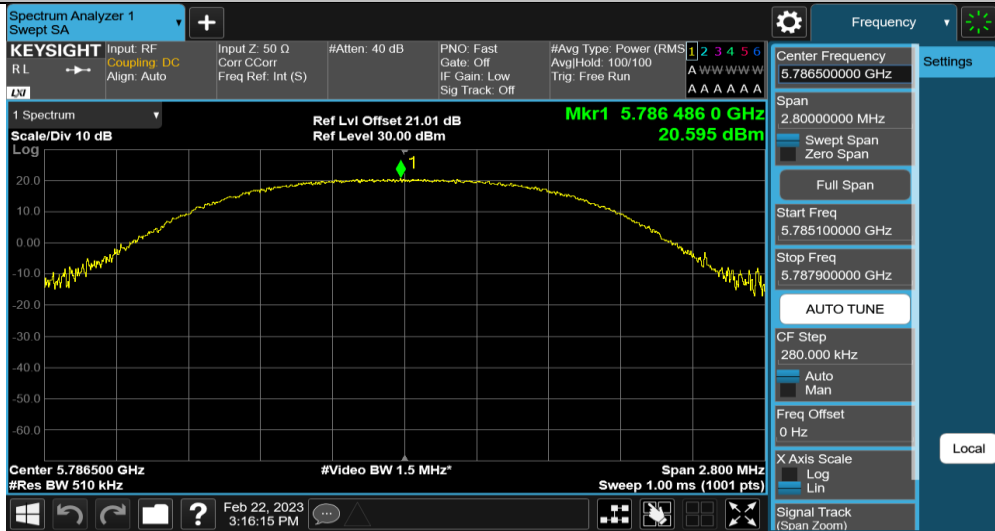
1.4M-MIMO_Ant2_5728.5



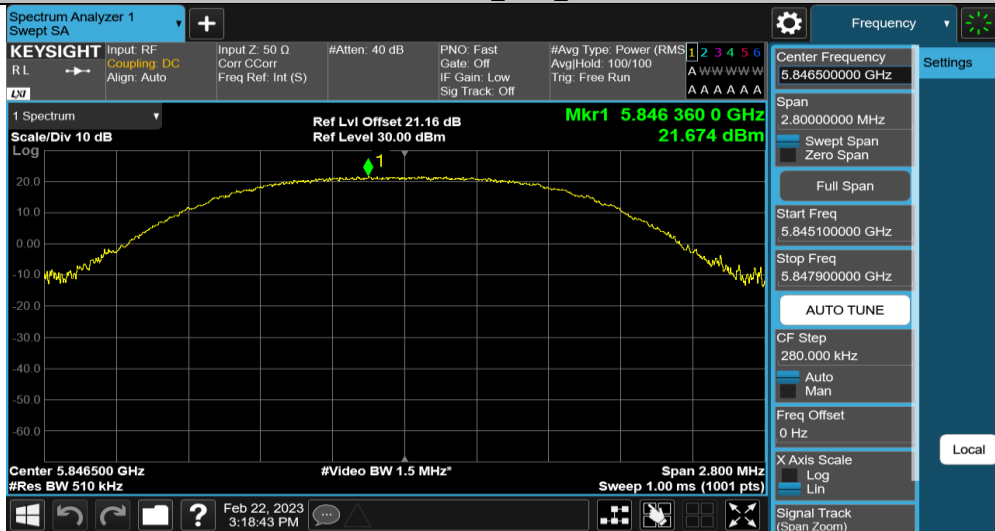
1.4M-MIMO_Ant1_5786.5



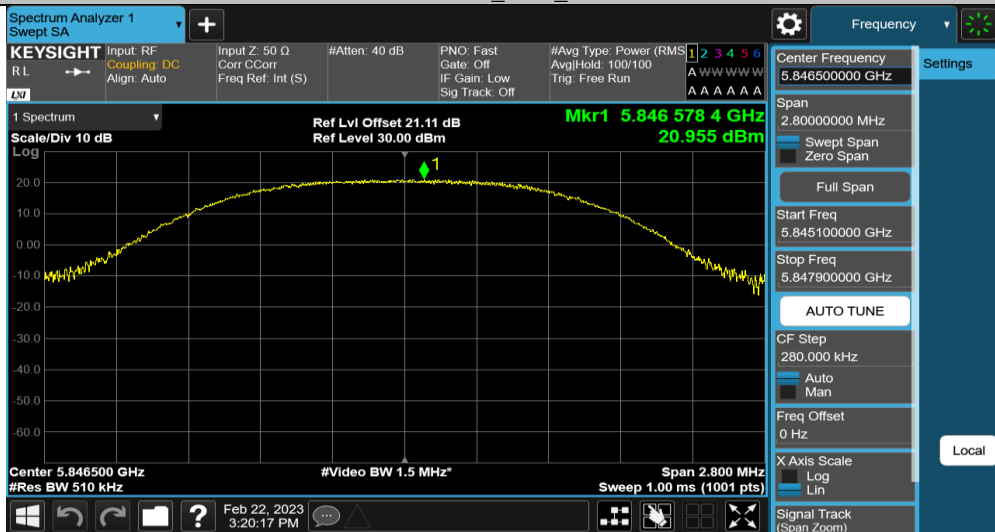
1.4M-MIMO_Ant2_5786.5



1.4M-MIMO_Ant1_5846.5



1.4M-MIMO_Ant2_5846.5

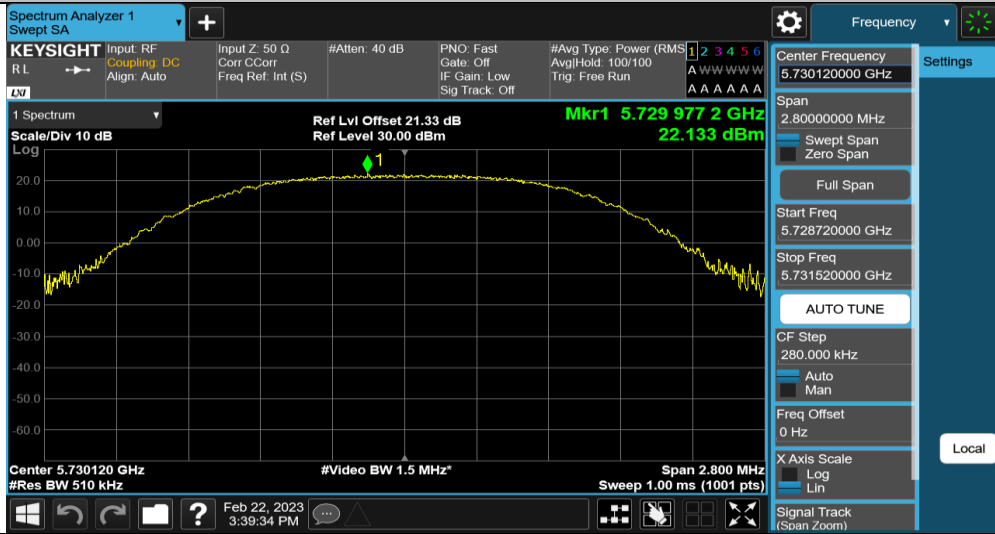


5.8G SDR, 1.4MHz BW CA mode

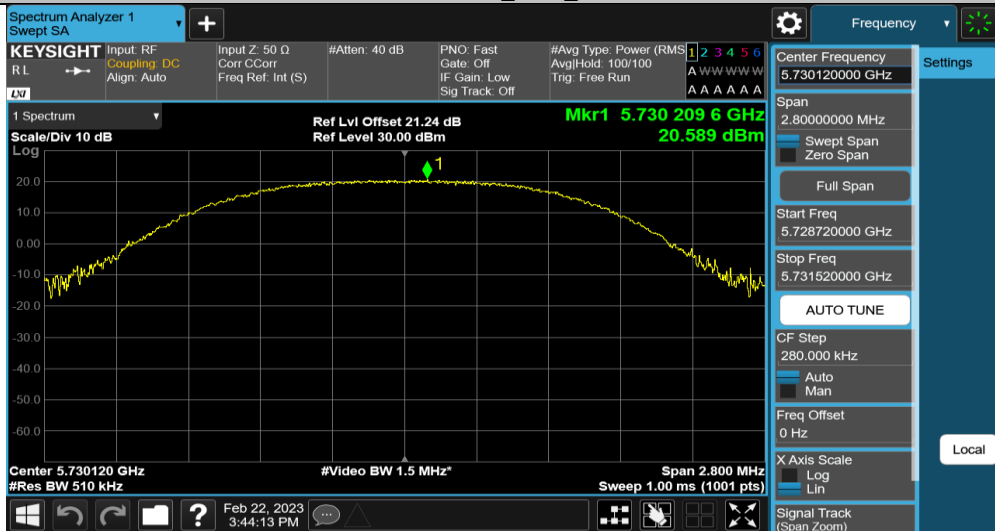
TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
1.4MCA-MIMO	Ant1	5730.12	22.13	≤30.00	PASS
	Ant2		20.59	≤30.00	PASS
	Total		24.44	≤30.00	PASS
	Ant1	5788.12	21.06	≤30.00	PASS
	Ant2		20.48	≤30.00	PASS
	Total		23.79	≤30.00	PASS
	Ant1	5848.12	21.87	≤30.00	PASS
	Ant2		21.07	≤30.00	PASS
	Total		24.50	≤30.00	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.

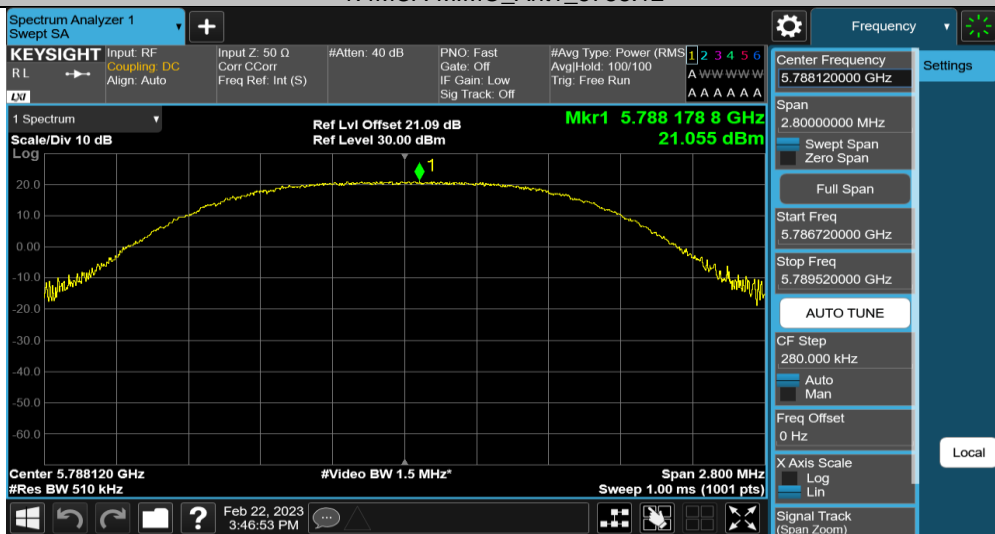
1.4MCA-MIMO_Ant1_5730.12



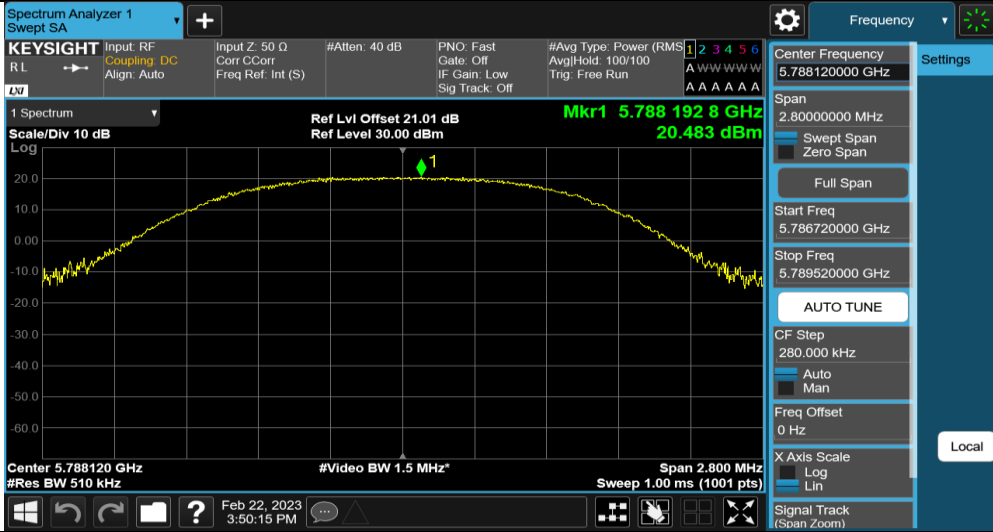
1.4MCA-MIMO_Ant2_5730.12



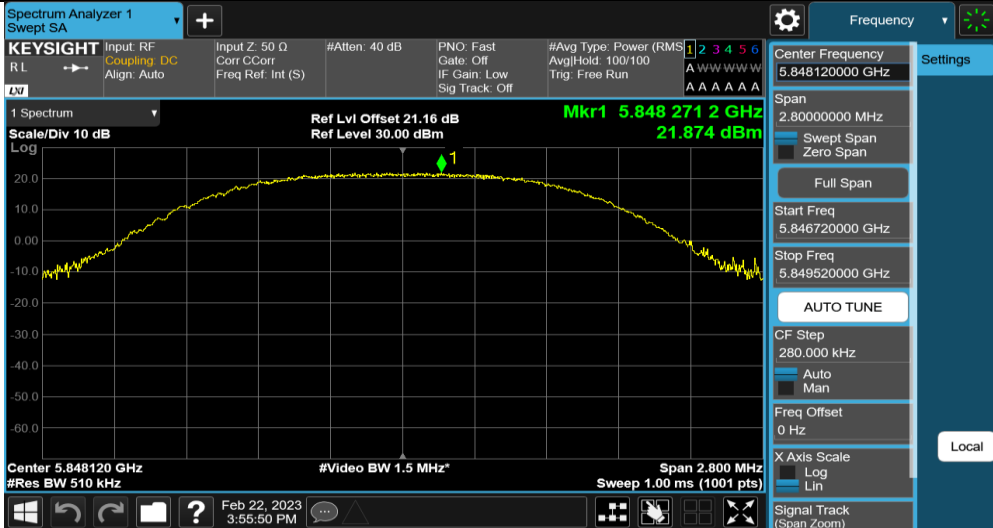
1.4MCA-MIMO_Ant1_5788.12



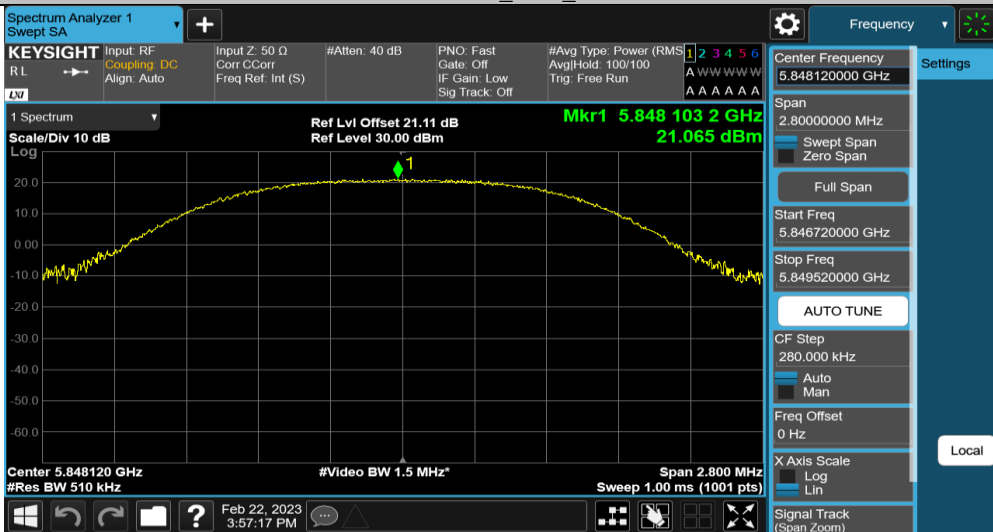
1.4MCA-MIMO_Ant2_5788.12



1.4MCA-MIMO_Ant1_5848.12



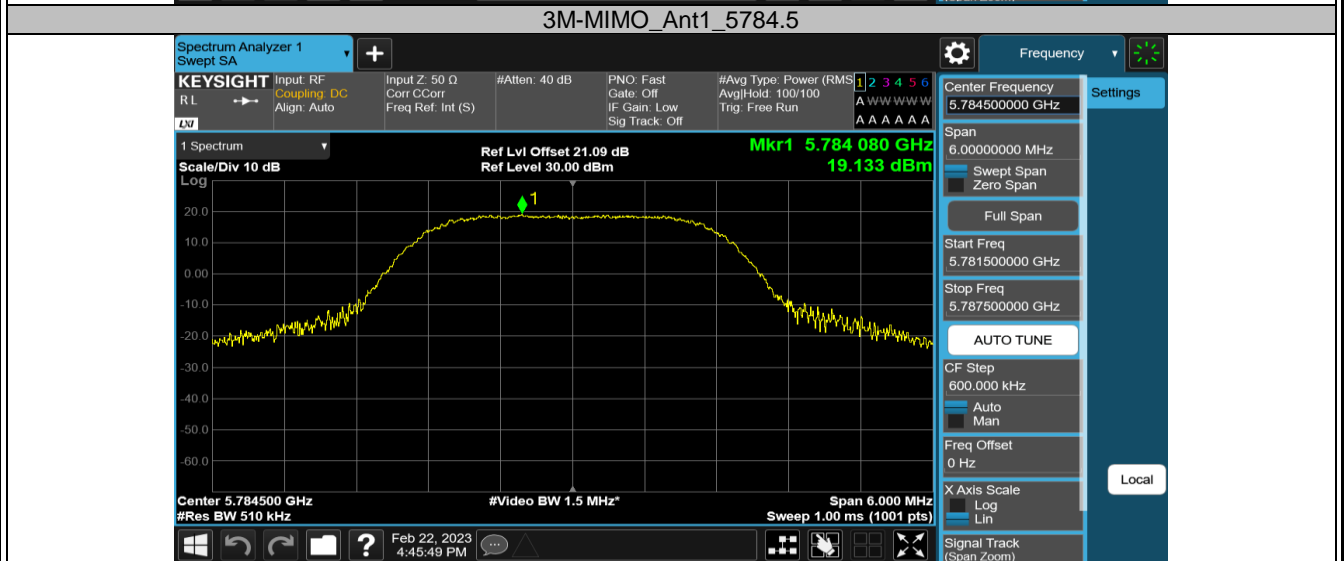
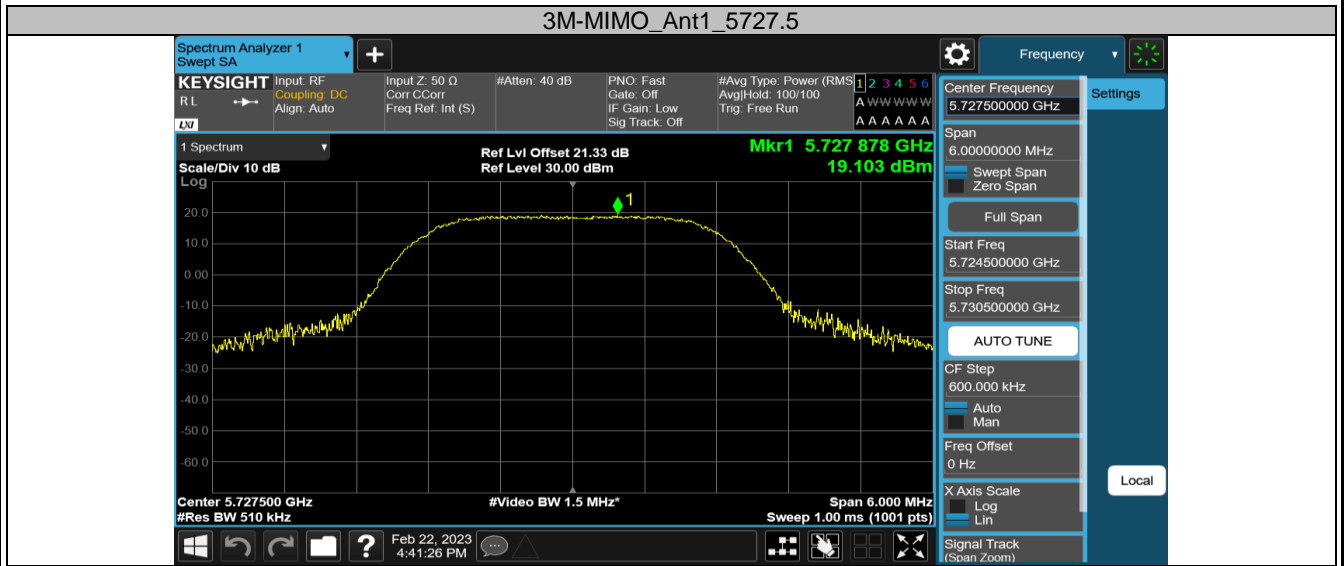
1.4MCA-MIMO_Ant2_5848.12

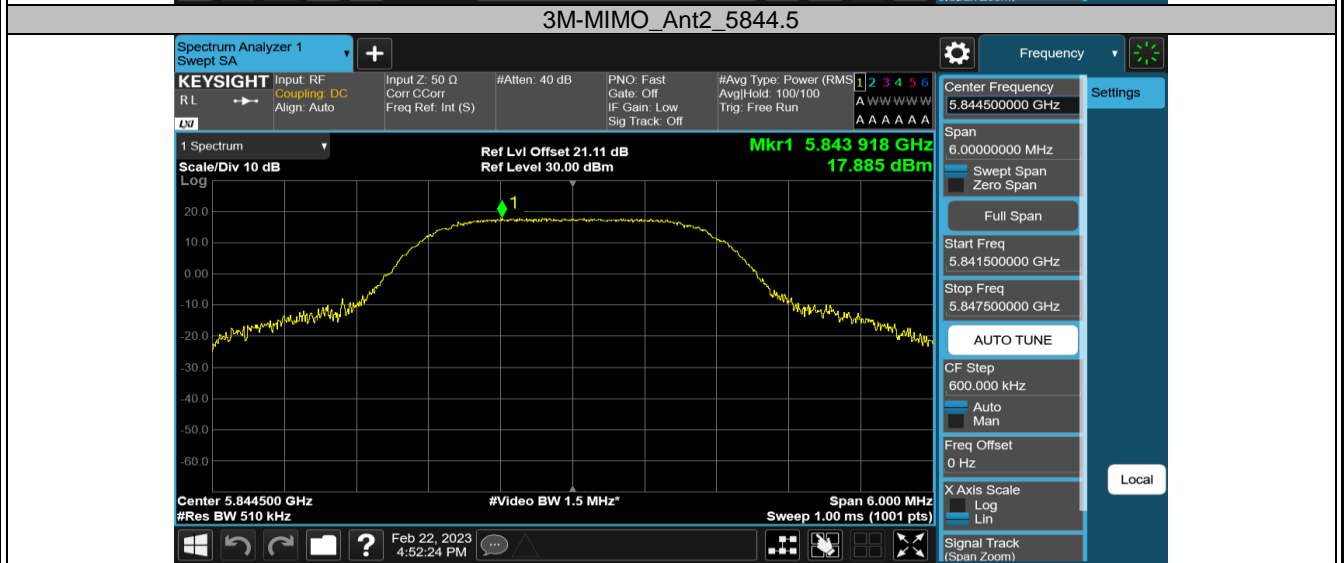
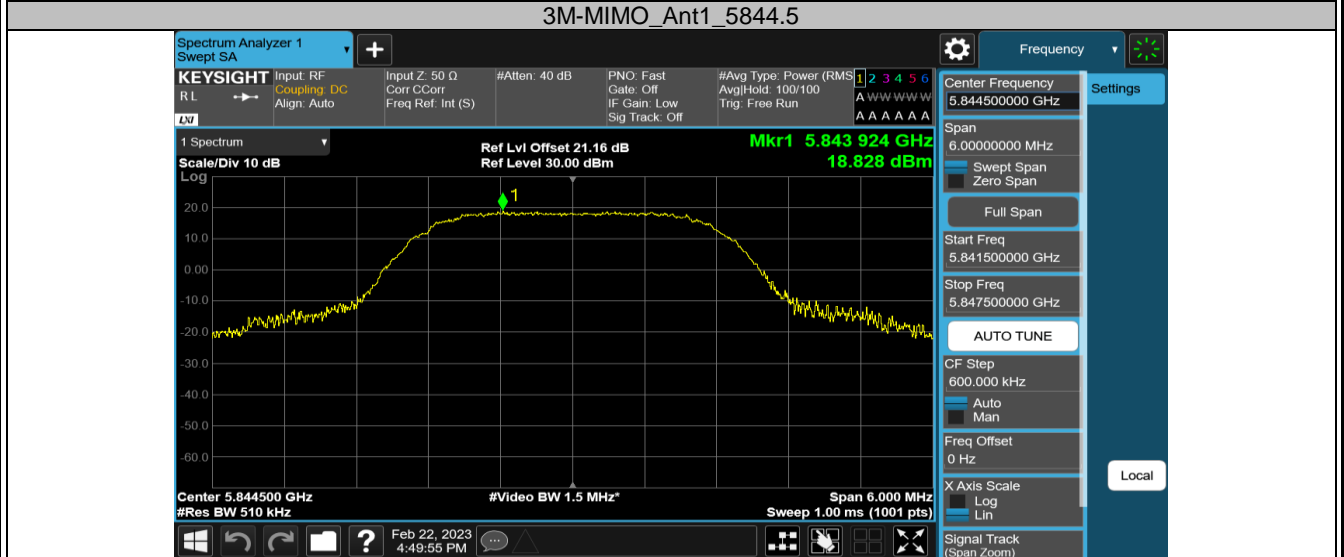
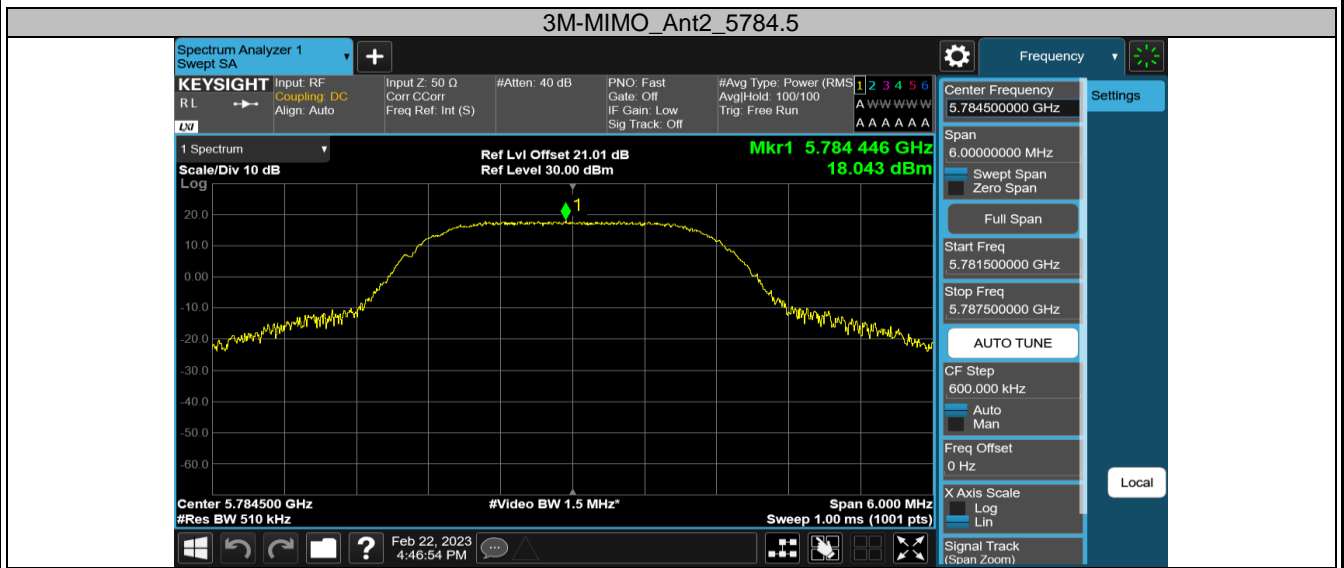


5.8G SDR, 3MHz BW

TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
3M-MIMO	Ant1	5727.5	19.10	≤30.00	PASS
	Ant2		17.82	≤30.00	PASS
	Total		21.52	≤30.00	PASS
	Ant1	5784.5	19.13	≤30.00	PASS
	Ant2		18.04	≤30.00	PASS
	Total		21.63	≤30.00	PASS
	Ant1	5844.5	18.83	≤30.00	PASS
	Ant2		17.89	≤30.00	PASS
	Total		21.40	≤30.00	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.



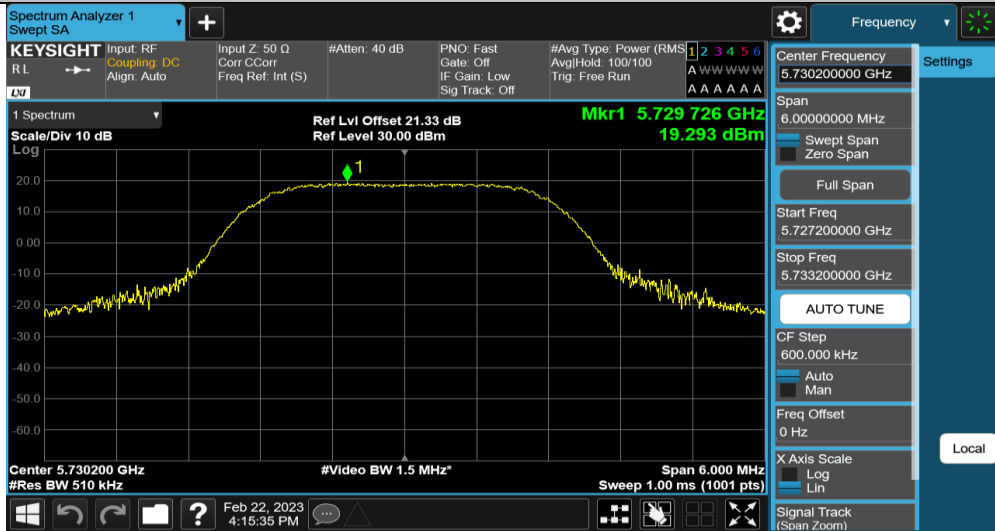


5.8G SDR, 3MHz BW CA mode

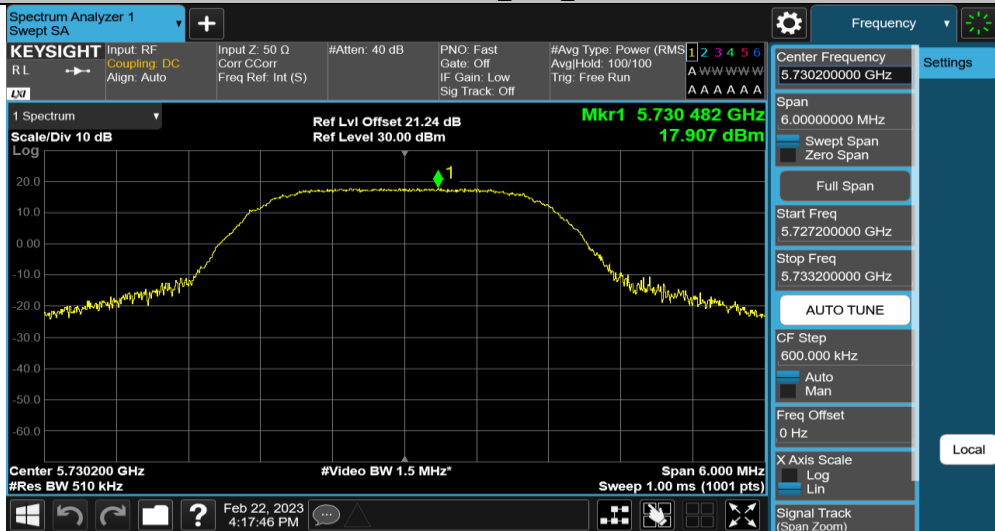
TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
3MCA-MIMO	Ant1	5730.2	19.29	≤30.00	PASS
	Ant2		17.91	≤30.00	PASS
	Total		21.66	≤30.00	PASS
	Ant1	5787.2	19.19	≤30.00	PASS
	Ant2		17.98	≤30.00	PASS
	Total		21.64	≤30.00	PASS
	Ant1	5847.2	18.95	≤30.00	PASS
	Ant2		17.99	≤30.00	PASS
	Total		21.51	≤30.00	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.

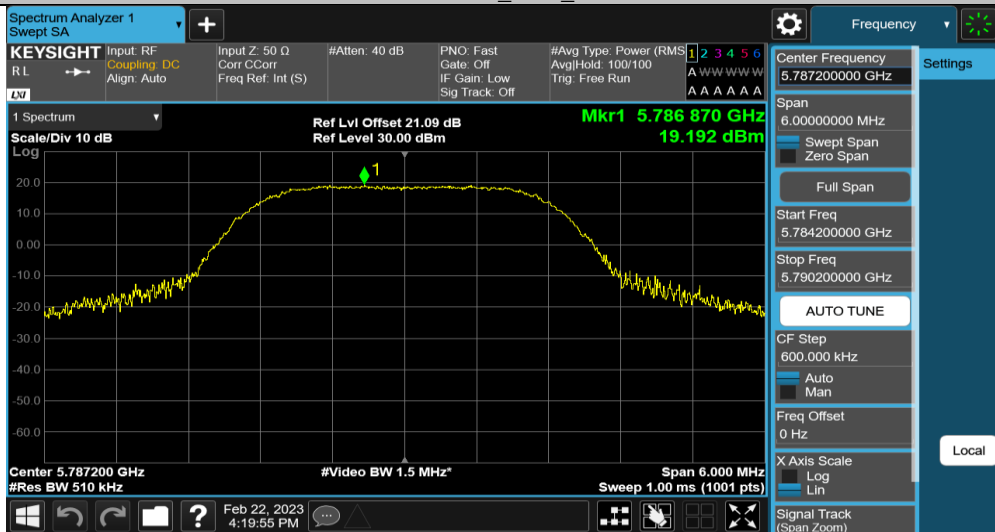
3MCA-MIMO_Ant1_5730.2



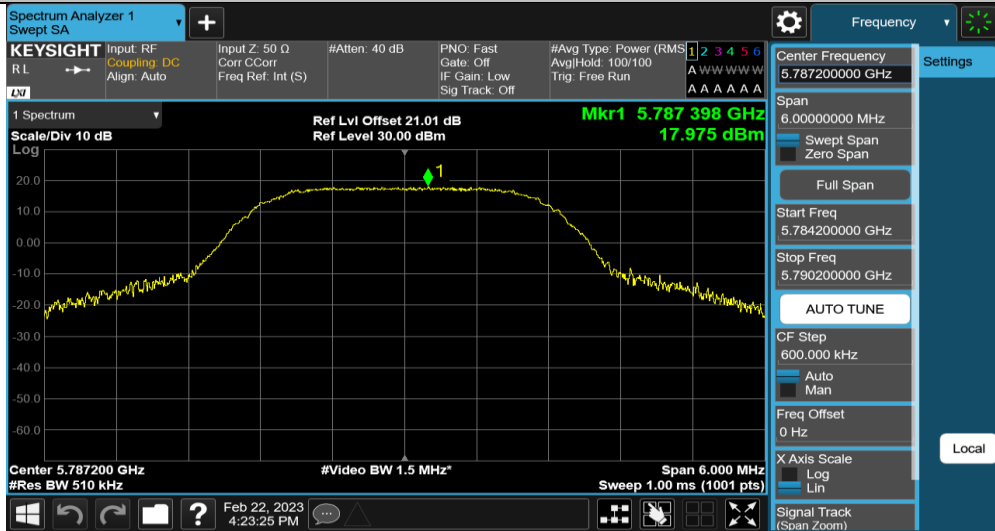
3MCA-MIMO_Ant2_5730.2



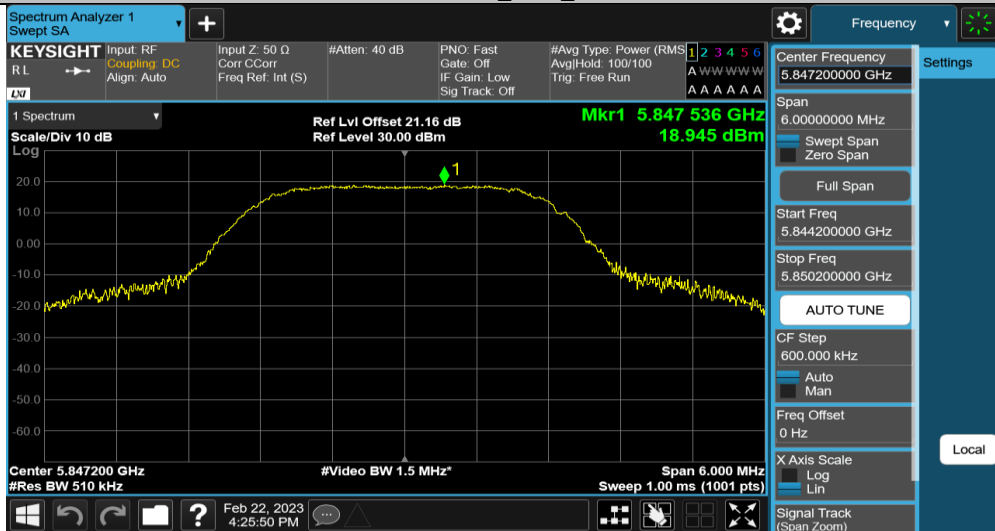
3MCA-MIMO_Ant1_5787.2



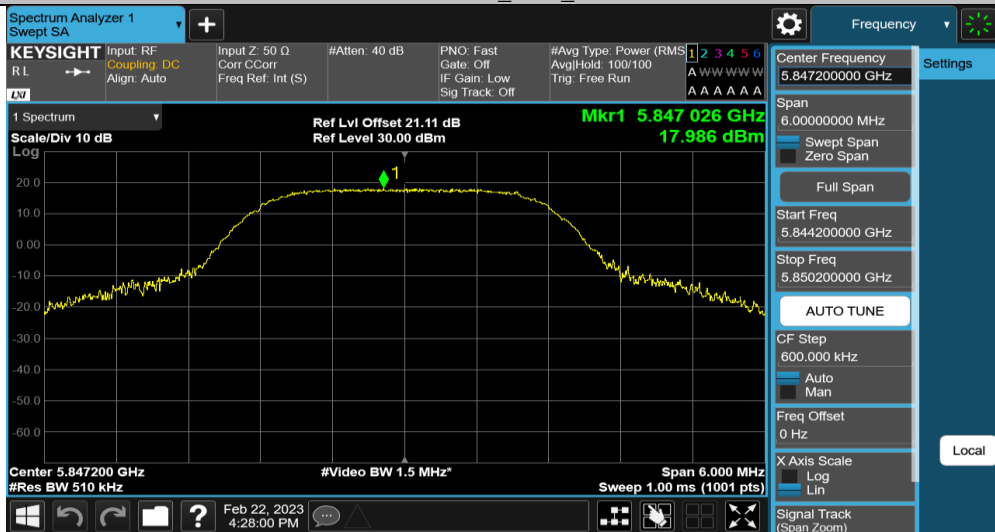
3MCA-MIMO_Ant2_5787.2



3MCA-MIMO_Ant1_5847.2



3MCA-MIMO_Ant2_5847.2

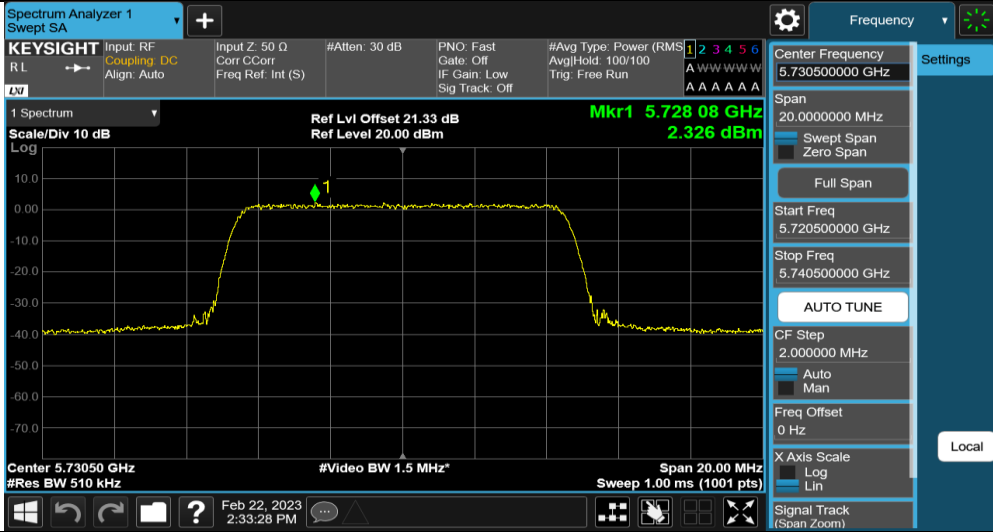


5.8G SDR, 10MHz BW

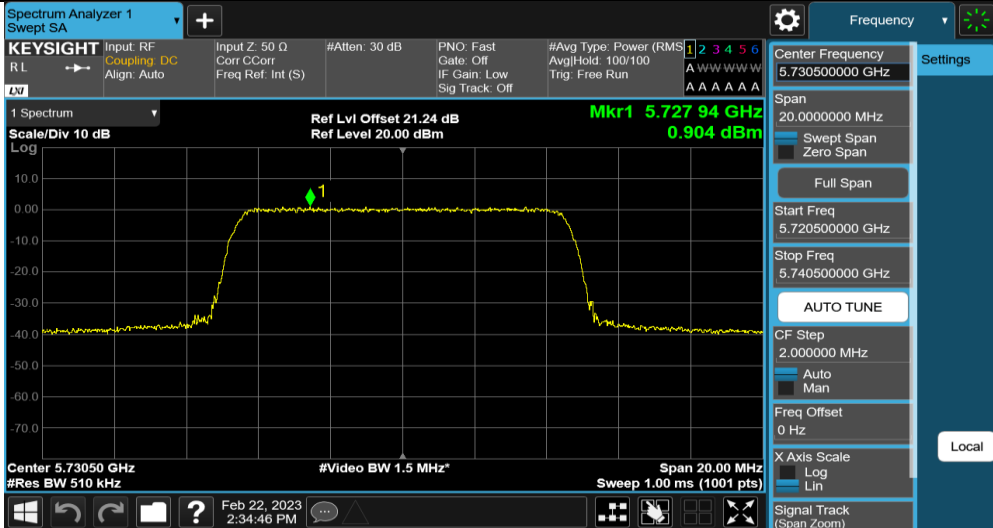
TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
10M-MIMO	Ant1	5730.5	2.33	≤30.00	PASS
	Ant2		0.90	≤30.00	PASS
	Total		4.68	≤30.00	PASS
	Ant1	5787.5	2.91	≤30.00	PASS
	Ant2		2.44	≤30.00	PASS
	Total		5.69	≤30.00	PASS
	Ant1	5844.5	2.12	≤30.00	PASS
	Ant2		1.98	≤30.00	PASS
	Total		5.06	≤30.00	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.

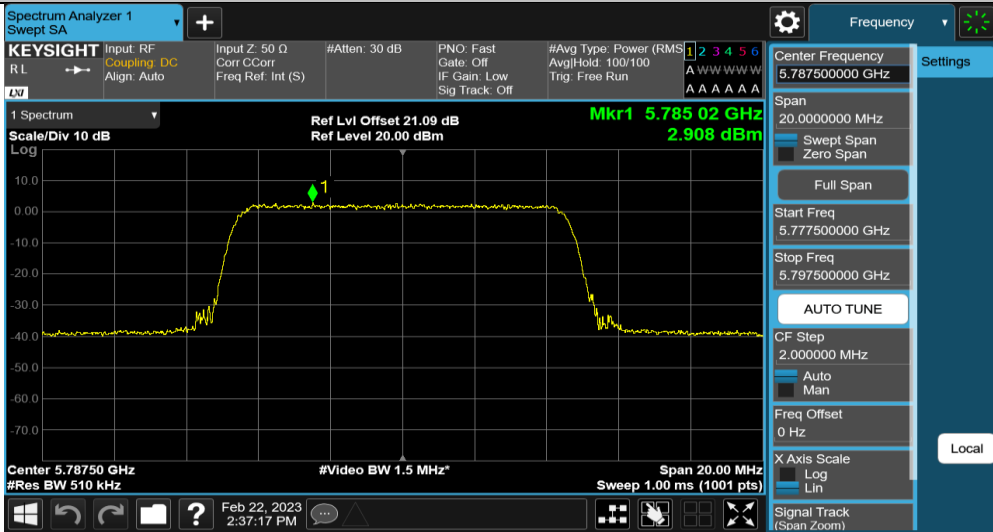
10M-MIMO_Ant1_5730.5



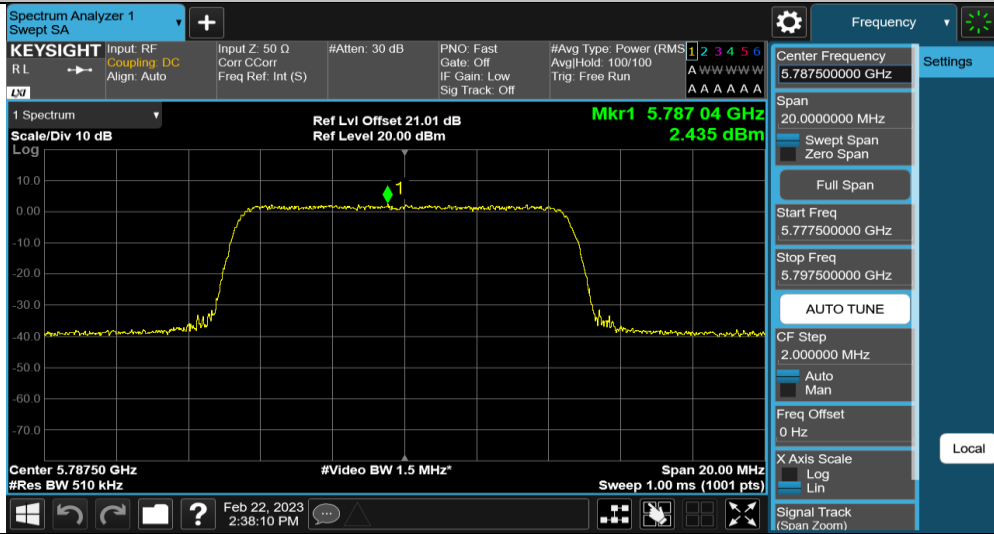
10M-MIMO_Ant2_5730.5



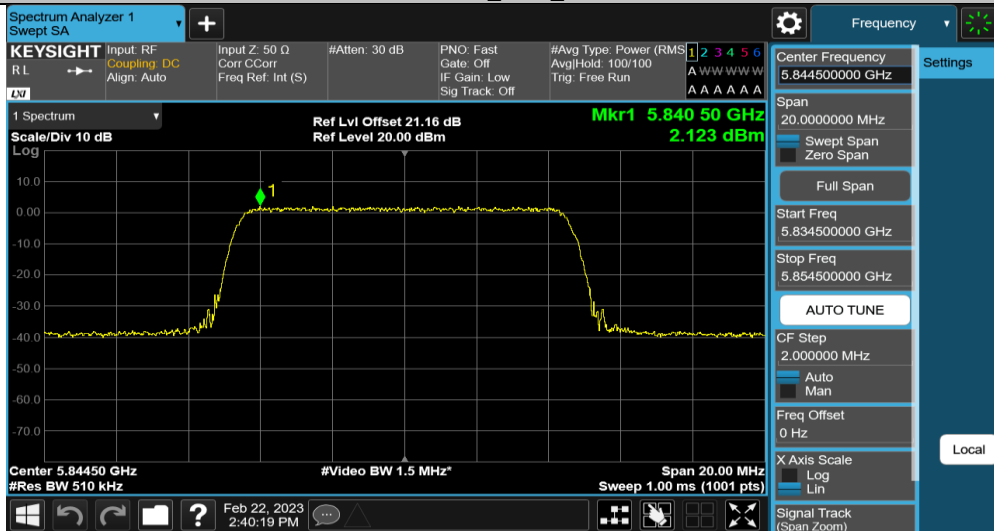
10M-MIMO_Ant1_5787.5



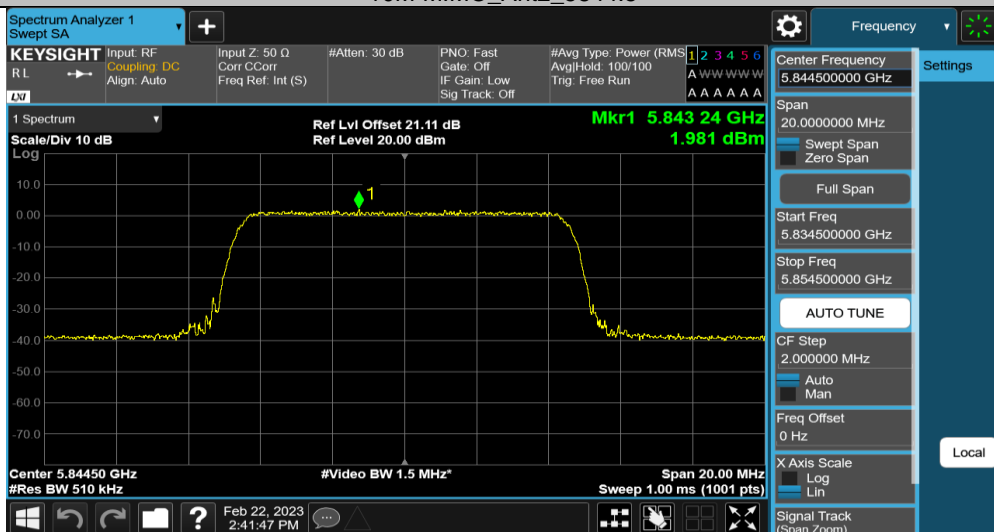
10M-MIMO_Ant2_5787.5



10M-MIMO_Ant1_5844.5



10M-MIMO_Ant2_5844.5

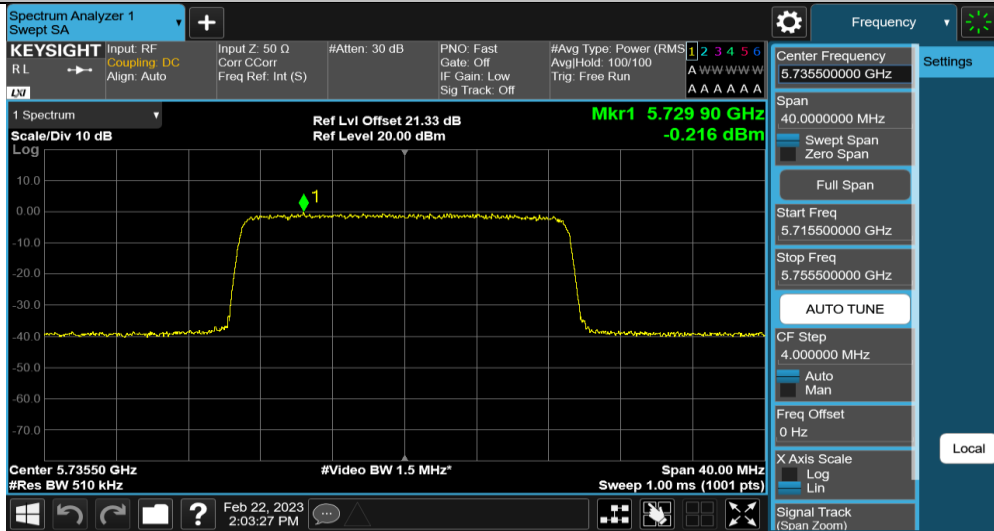


5.8G SDR, 20MHz BW

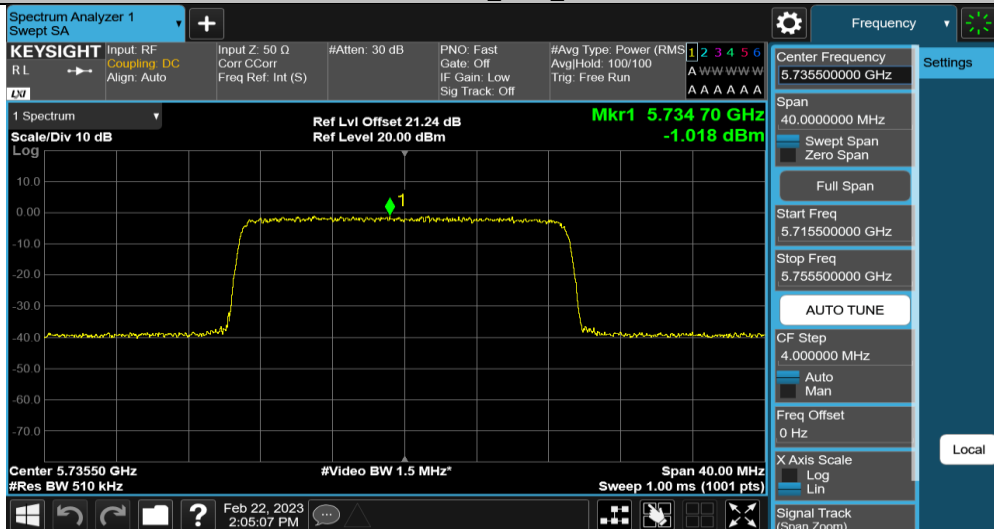
TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
20M-MIMO	Ant1	5735.5	-0.22	≤30.00	PASS
	Ant2		-1.02	≤30.00	PASS
	Total		2.41	≤30.00	PASS
	Ant1	5787.5	0.44	≤30.00	PASS
	Ant2		0.32	≤30.00	PASS
	Total		3.90	≤30.00	PASS
	Ant1	5839.5	-0.56	≤30.00	PASS
	Ant2		-0.85	≤30.00	PASS
	Total		2.31	≤30.00	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.

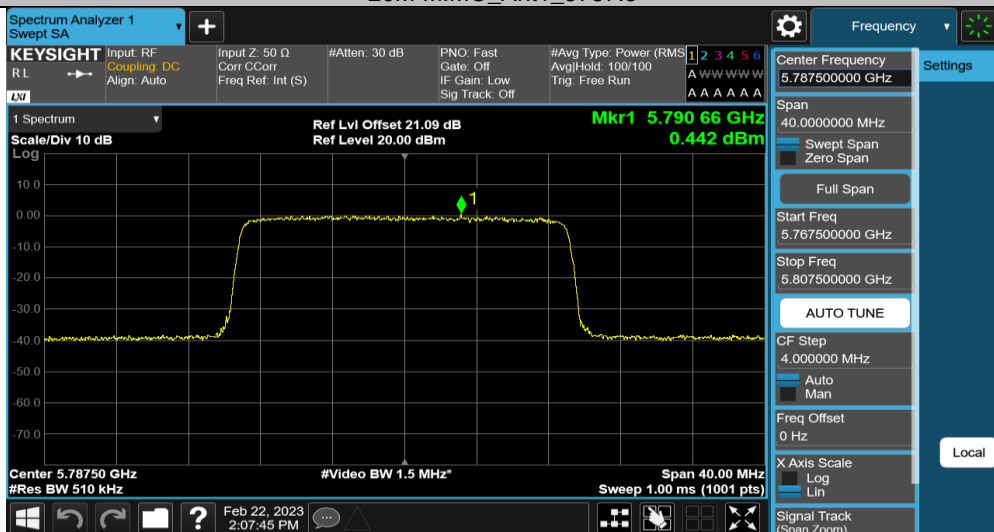
20M-MIMO_Ant1_5735.5



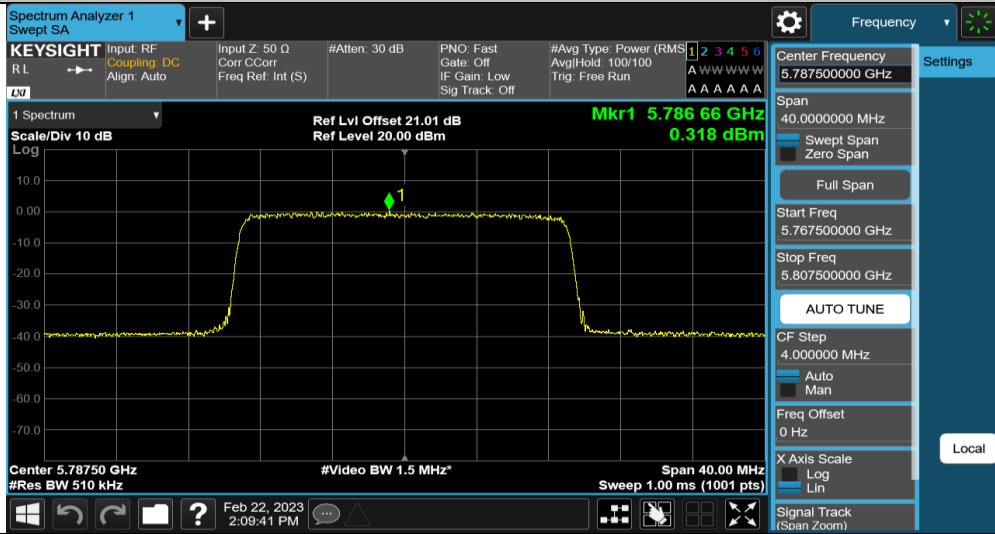
20M-MIMO_Ant2_5735.5



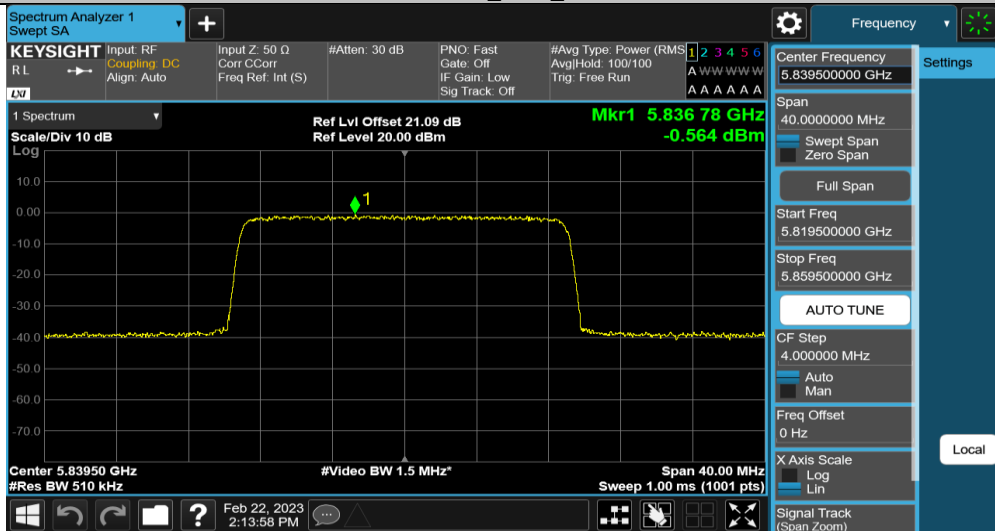
20M-MIMO_Ant1_5787.5



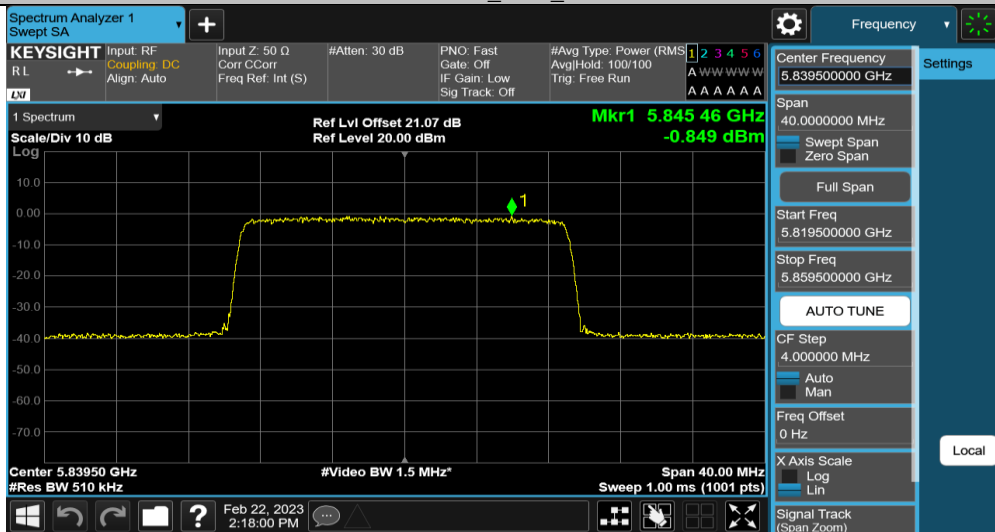
20M-MIMO_Ant2_5787.5



20M-MIMO_Ant1_5839.5



20M-MIMO_Ant2_5839.5

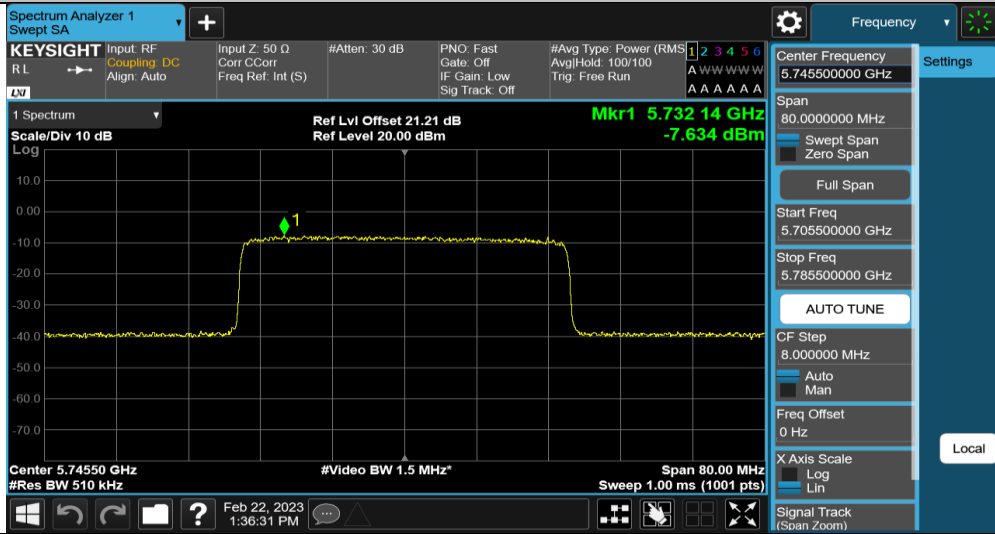


5.8G SDR, 40MHz BW

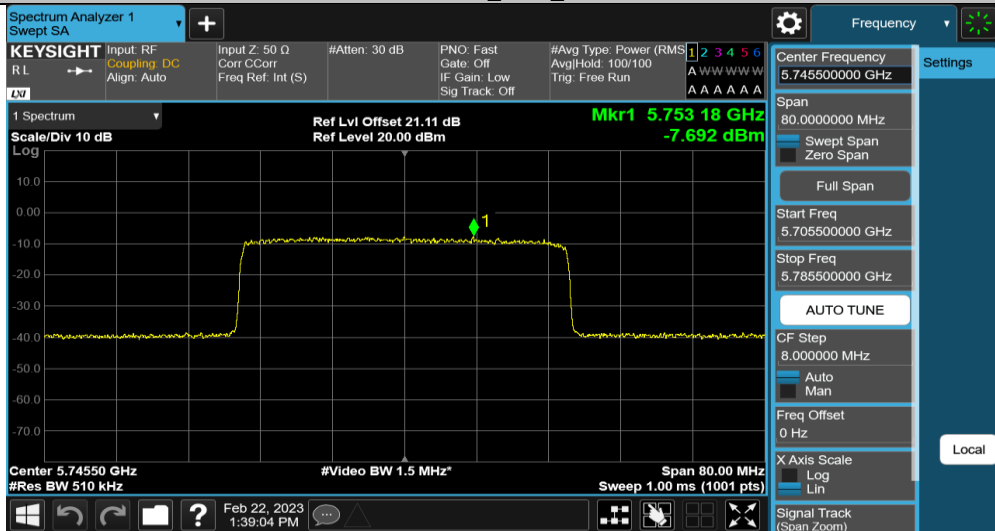
TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
40M-MIMO	Ant1	5745.5	-7.63	≤30.00	PASS
	Ant2		-7.69	≤30.00	PASS
	Total		-4.65	≤30.00	PASS
	Ant1	5787.5	-3.15	≤30.00	PASS
	Ant2		-3.22	≤30.00	PASS
	Total		-0.17	≤30.00	PASS
	Ant1	5829.5	-8.11	≤30.00	PASS
	Ant2		-7.61	≤30.00	PASS
	Total		-4.84	≤30.00	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.

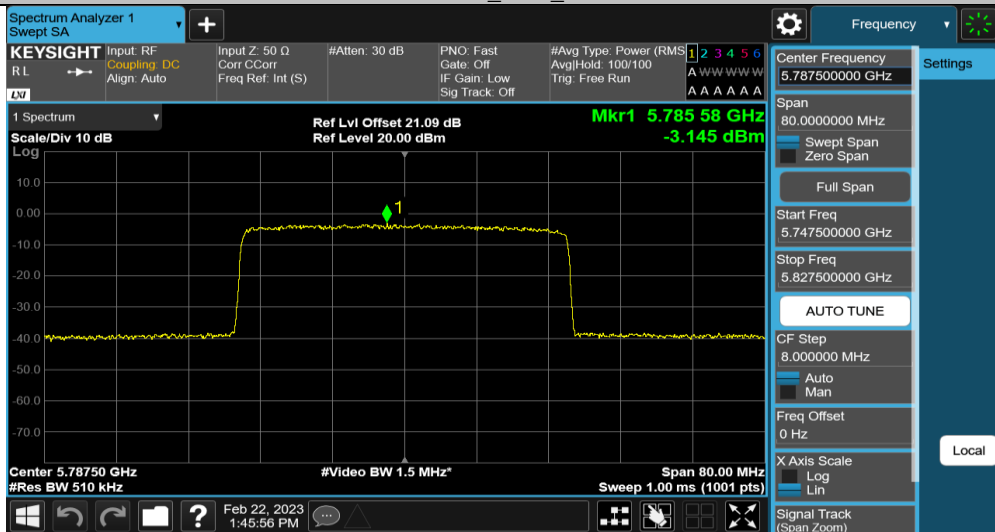
40M-MIMO_Ant1_5745.5



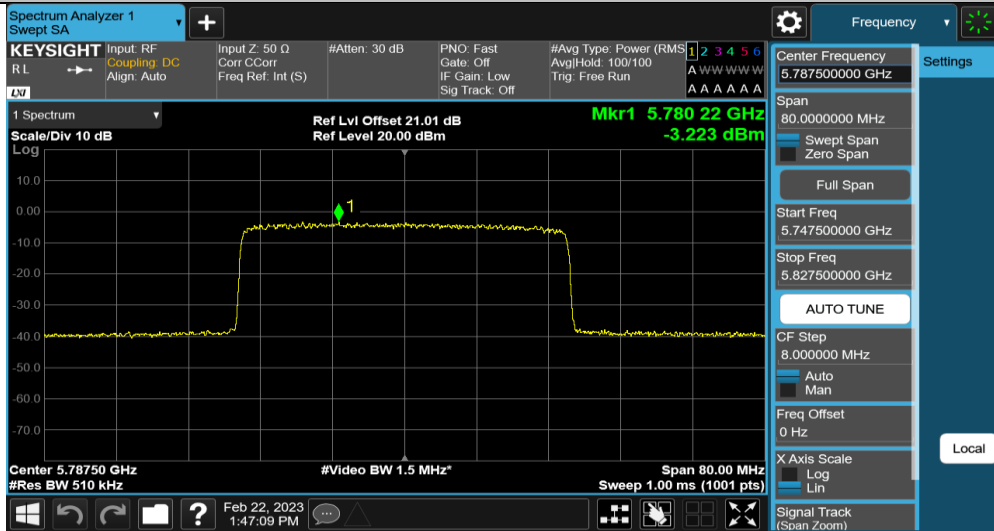
40M-MIMO_Ant2_5745.5



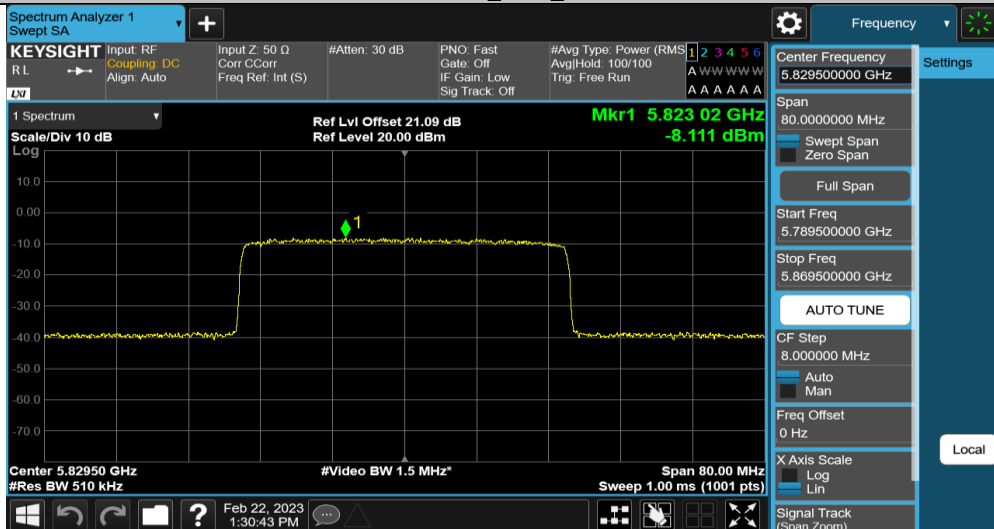
40M-MIMO_Ant1_5787.5



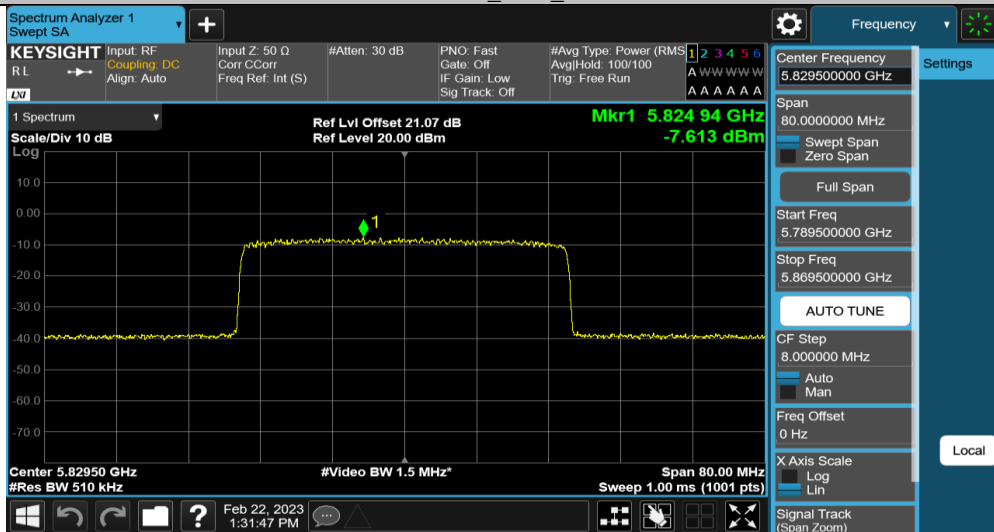
40M-MIMO_Ant2_5787.5



40M-MIMO_Ant1_5829.5



40M-MIMO_Ant2_5829.5



Appendix A.2: Test Results of Frequency Stability

TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
1.4M-MIMO	Ant1	5728.5	NV	NT	-6000.00	-1.047395	20	PASS
		5786.5	NV	NT	-5000.00	-0.864080	20	PASS
		5846.5	NV	NT	-6000.00	-1.026255	20	PASS
1.4MCA-MIMO	Ant1	5730.12	NV	NT	-5000.00	-0.872582	20	PASS
		5788.12	NV	NT	-5000.00	-0.863838	20	PASS
		5848.12	NV	NT	-6000.00	-1.025971	20	PASS
3M-MIMO	Ant1	5727.5	NV	NT	-6000.00	-1.047577	20	PASS
		5784.5	NV	NT	-6000.00	-1.037255	20	PASS
		5844.5	NV	NT	-6000.00	-1.026606	20	PASS
3MCA-MIMO	Ant1	5730.2	NV	NT	-5000.00	-0.872570	20	PASS
		5787.2	NV	NT	-5000.00	-0.863976	20	PASS
		5847.2	NV	NT	-5000.00	-0.855110	20	PASS
10M-MIMO	Ant1	5730.5	NV	NT	-5000.00	-0.872524	20	PASS
		5787.5	NV	NT	-5000.00	-0.863931	20	PASS
		5844.5	NV	NT	-5000.00	-0.855505	20	PASS
20M-MIMO	Ant1	5735.5	NV	NT	-5000.00	-0.871764	20	PASS
		5787.5	NV	NT	-6000.00	-1.036717	20	PASS
		5839.5	NV	NT	-5000.00	-0.856238	20	PASS
40M-MIMO	Ant1	5745.5	NV	NT	-6000.00	-1.044296	20	PASS
		5787.5	NV	NT	-5000.00	-0.863931	20	PASS
		5829.5	NV	NT	-5000.00	-0.857706	20	PASS

Appendix A.3: Test Results of 6dB Bandwidth

5.8G SDR, 1.4MHz BW

TestMode	Antenna	Channel	DTS BW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
1.4M-MIMO	Ant1	5728.5	1.098	5727.946	5729.043	0.5	PASS
		5786.5	1.092	5785.951	5787.043	0.5	PASS
		5846.5	1.098	5845.946	5847.043	0.5	PASS

