

Appendix A: Test Results of 5.8GHz SDR

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

5.8G SDR, 1.4MHz BW

SISO mode (Worst case_ANT0)

TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
1.4MHz	Ant0	5728.5	22.80	≤30.00	PASS
		5786.5	22.59	≤30.00	PASS
		5846.12	22.41	≤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.

1.4MHz Ant0 5728.5



1.4MHz Ant0 5786.5



1.4MHz Ant0 5846.12



MIMO mode (Worst case_ANT0+ANT3)

TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
1.4MHz	Ant0	5728.5	20.09	≤30.00	PASS
	Ant3	5728.5	20.81	≤30.00	PASS
	total	5728.5	23.48	≤30.00	PASS
	Ant0	5786.5	21.12	≤30.00	PASS
	Ant3	5786.5	20.05	≤30.00	PASS
	total	5786.5	23.63	≤30.00	PASS
	Ant0	5846.12	20.83	≤30.00	PASS
	Ant3	5846.12	19.93	≤30.00	PASS
	total	5846.12	23.41	≤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.



1.4MHz Ant3 5786.5



1.4MHz Ant0 5846.12



1.4MHz Ant3 5846.12



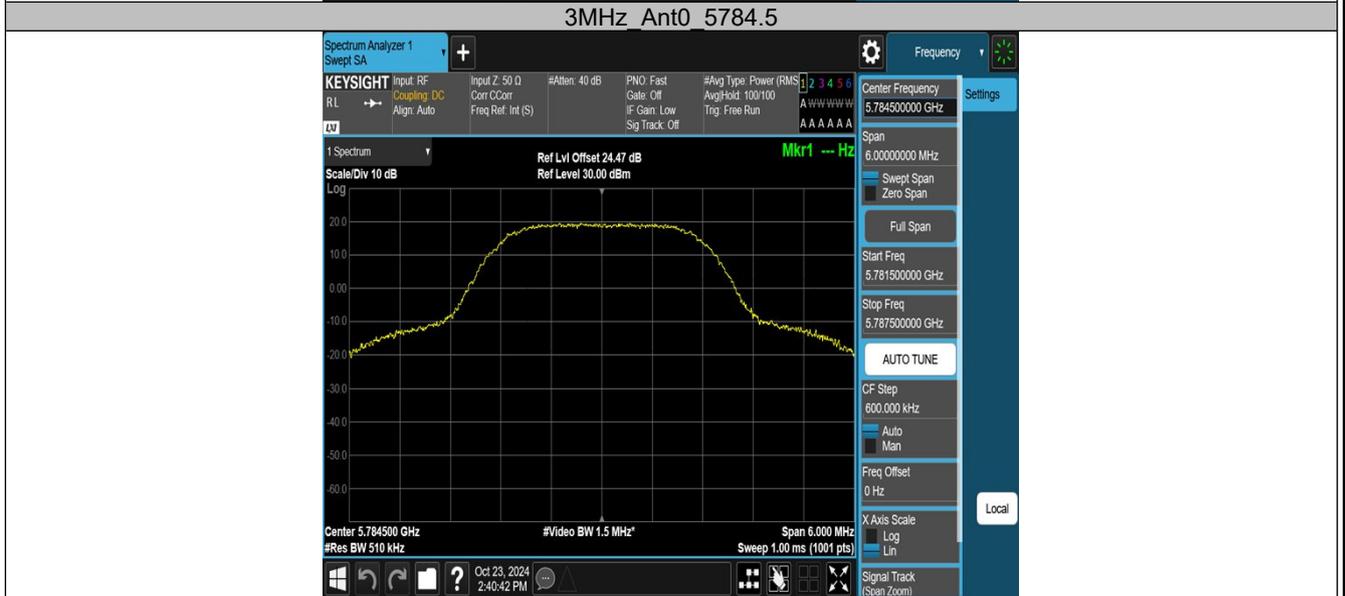
5.8G SDR, 3MHz BW

SISO mode (Worst case_ANT0)

TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
3MHz	Ant0	5727.5	19.66	≤30.00	PASS
		5784.5	19.55	≤30.00	PASS
		5847.2	19.61	≤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.



MIMO mode (Worst case_ANT0+ANT3)

TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
3MHz	Ant0	5727.5	16.89	≤30.00	PASS
	Ant3	5727.5	16.71	≤30.00	PASS
	total	5727.5	19.81	≤30.00	PASS
	Ant0	5784.5	17.47	≤30.00	PASS
	Ant3	5784.5	16.55	≤30.00	PASS
	total	5784.5	20.04	≤30.00	PASS
	Ant0	5847.2	16.84	≤30.00	PASS
	Ant3	5847.2	17.01	≤30.00	PASS
	total	5847.2	19.94	≤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, 5MHz BW

SISO mode (Worst case_ANT0)

TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
5MHz	Ant0	5732.5	16.55	≤30.00	PASS
		5787.5	16.47	≤30.00	PASS
		5842.5	17.27	≤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.

5MHz_Ant0_5732.5



5MHz_Ant0_5787.5



5MHz_Ant0_5842.5



MIMO mode (Worst case_ANT0+ANT3)

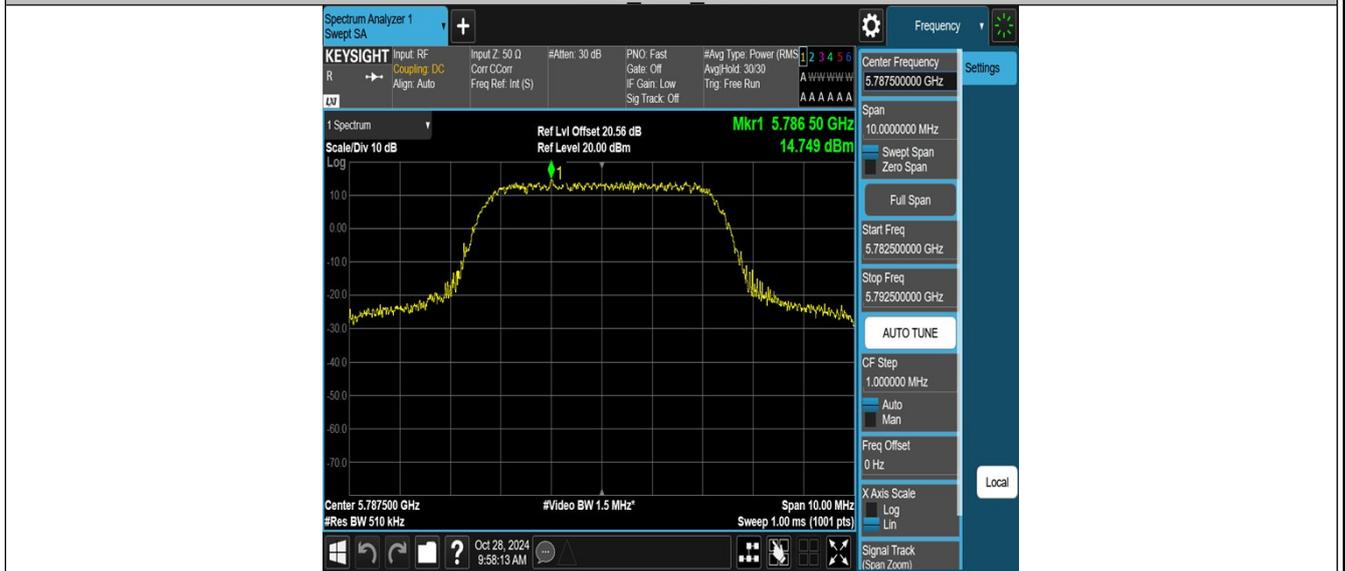
TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
5MHz	Ant0	5732.5	14.30	≤30.00	PASS
	Ant3	5732.5	14.37	≤30.00	PASS
	total	5732.5	17.35	≤30.00	PASS
	Ant0	5787.5	14.57	≤30.00	PASS
	Ant3	5787.5	14.75	≤30.00	PASS
	total	5787.5	17.67	≤30.00	PASS
	Ant0	5842.5	14.10	≤30.00	PASS
	Ant3	5842.5	14.52	≤30.00	PASS
	total	5842.5	17.33	≤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.



5MHz_Ant3_5787.5



5MHz_Ant0_5842.5



5MHz_Ant3_5842.5



5.8G SDR, 10MHz BW

SISO mode (Worst case_ANT0)

TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
10MHz	Ant0	5730.5	13.45	≤30.00	PASS
		5787.5	13.74	≤30.00	PASS
		5844.5	13.47	≤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.

10MHz Ant0 5730.5



10MHz Ant0 5787.5



10MHz Ant0 5844.5

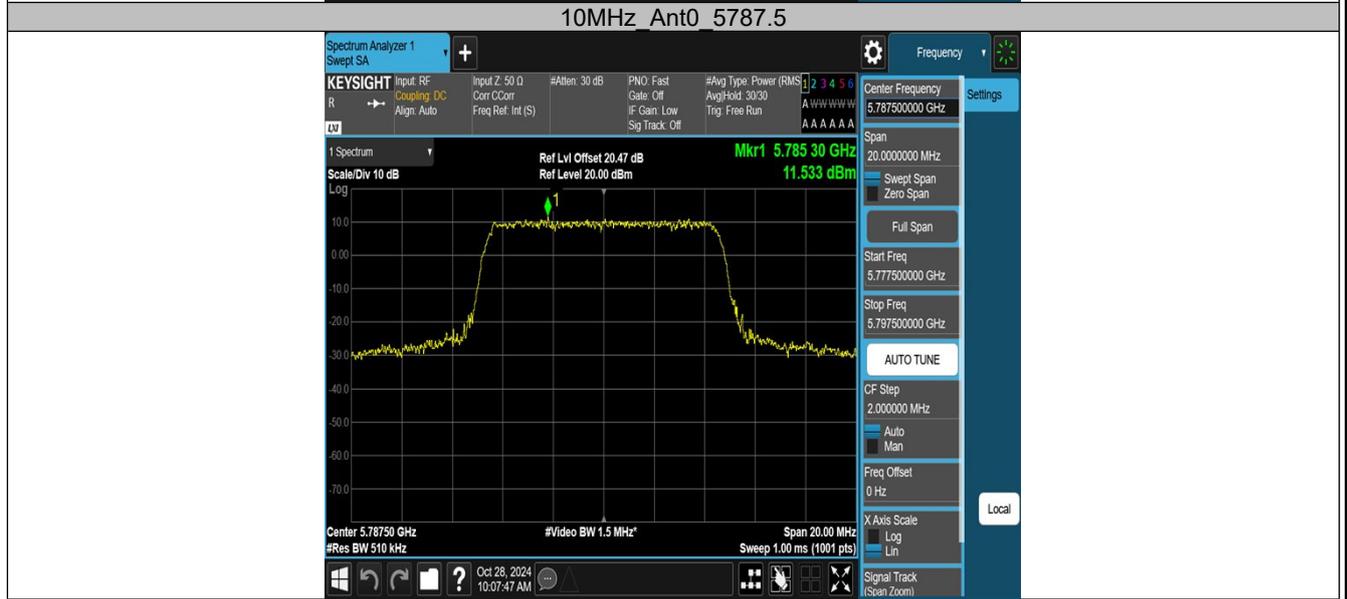


MIMO mode (Worst case_ANT0+ANT3)

TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
10MHz	Ant0	5730.5	11.24	≤30.00	PASS
	Ant3	5730.5	11.17	≤30.00	PASS
	total	5730.5	14.22	≤30.00	PASS
	Ant0	5787.5	11.53	≤30.00	PASS
	Ant3	5787.5	11.63	≤30.00	PASS
	total	5787.5	14.59	≤30.00	PASS
	Ant0	5844.5	10.97	≤30.00	PASS
	Ant3	5844.5	11.19	≤30.00	PASS
	total	5844.5	14.09	≤30.00	PASS

Note:

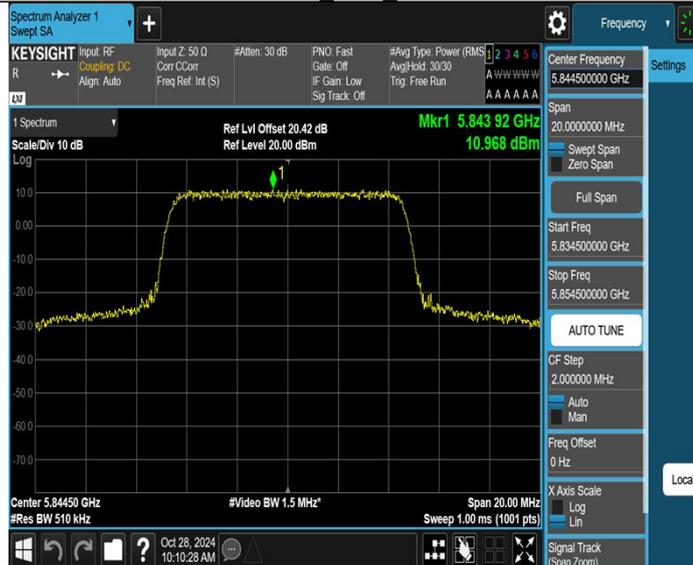
1. The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.



10MHz Ant3 5787.5



10MHz Ant0 5844.5



10MHz Ant3 5844.5



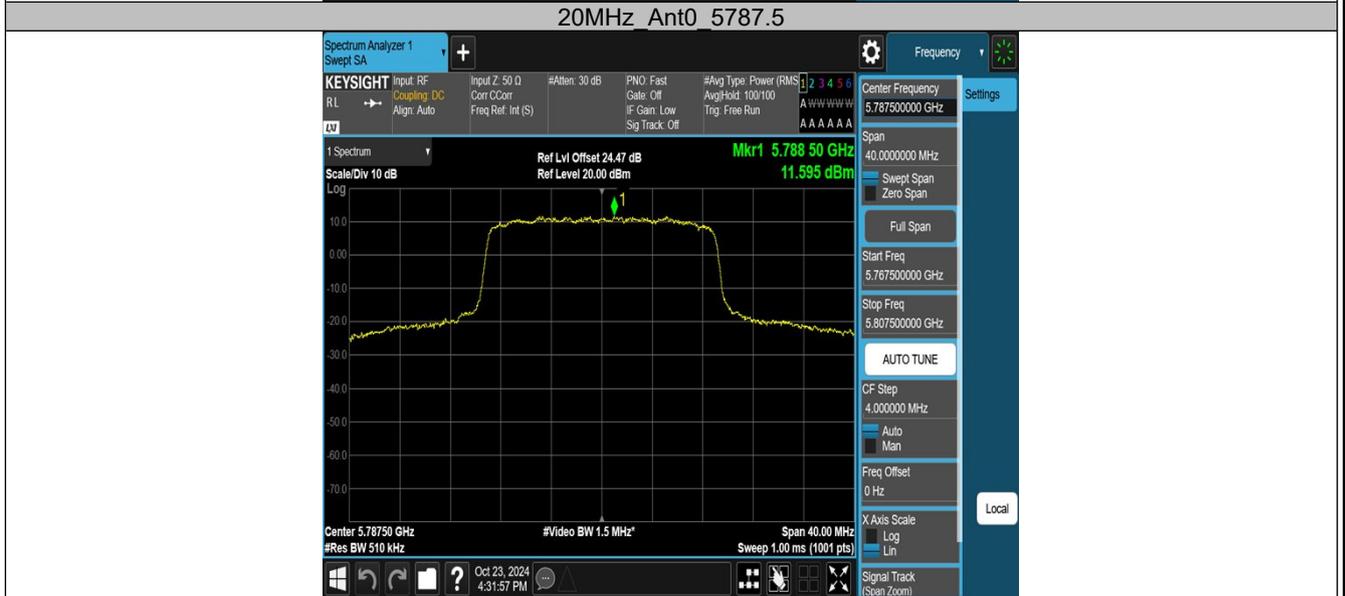
5.8G SDR, 20MHz BW

SISO mode (Worst case_ANT0)

TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
20MHz	Ant0	5735.5	11.64	≤30.00	PASS
		5787.5	11.60	≤30.00	PASS
		5839.5	11.70	≤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.

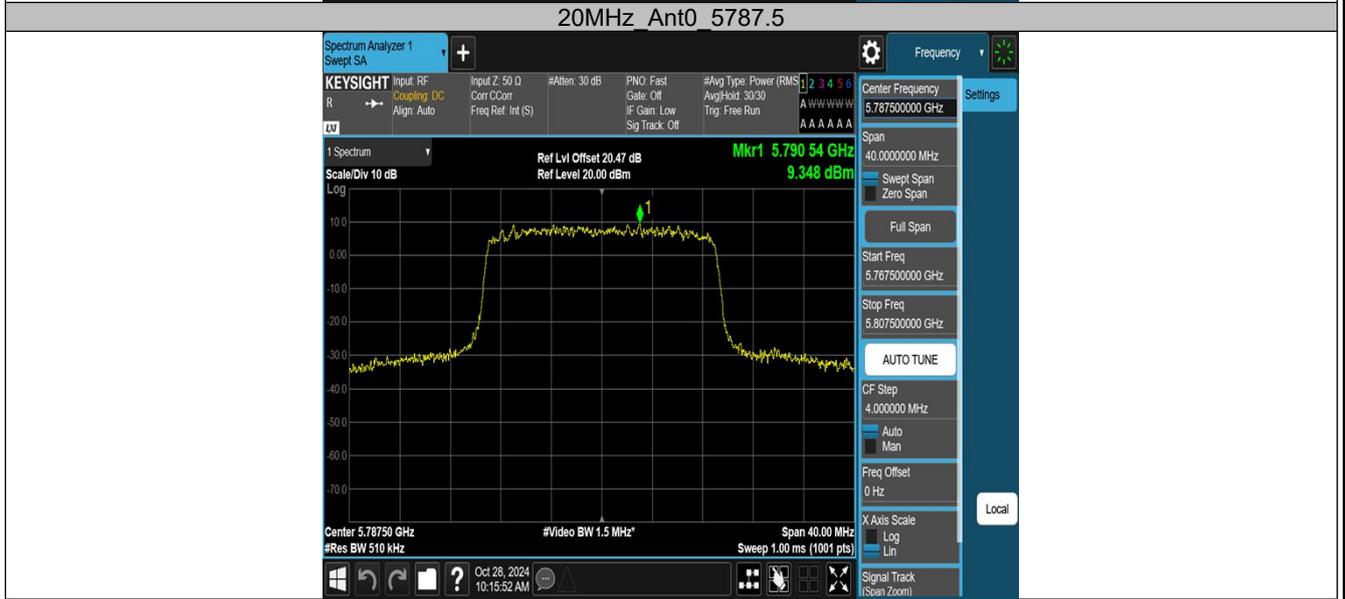
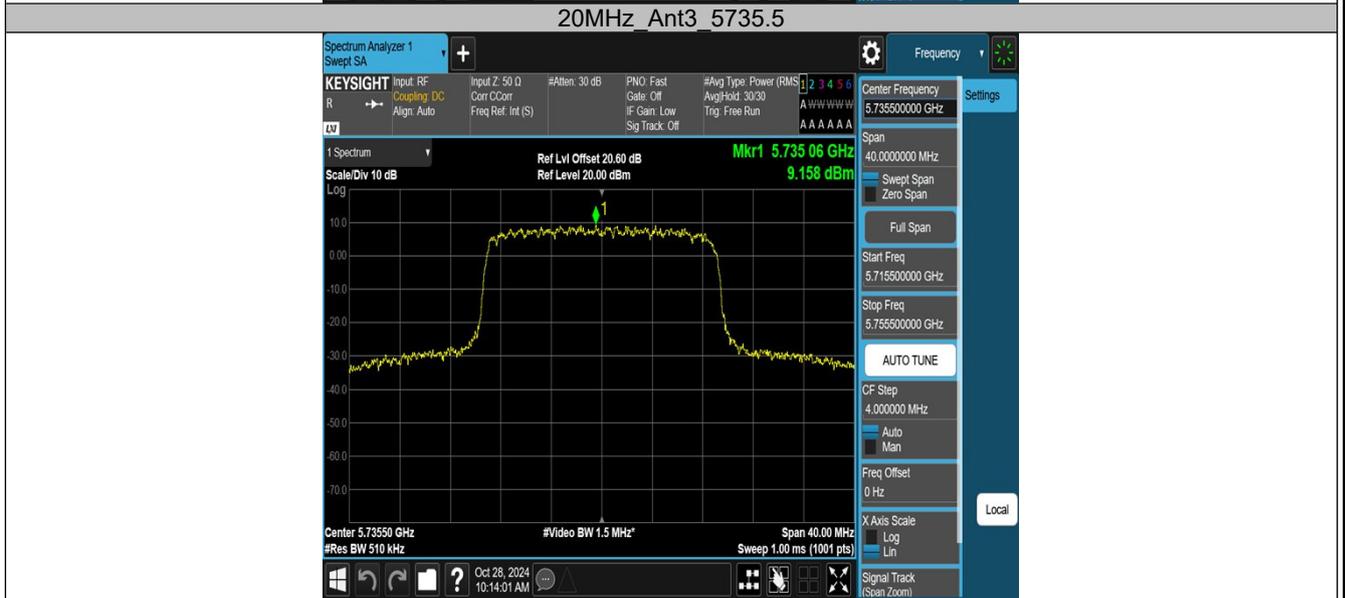


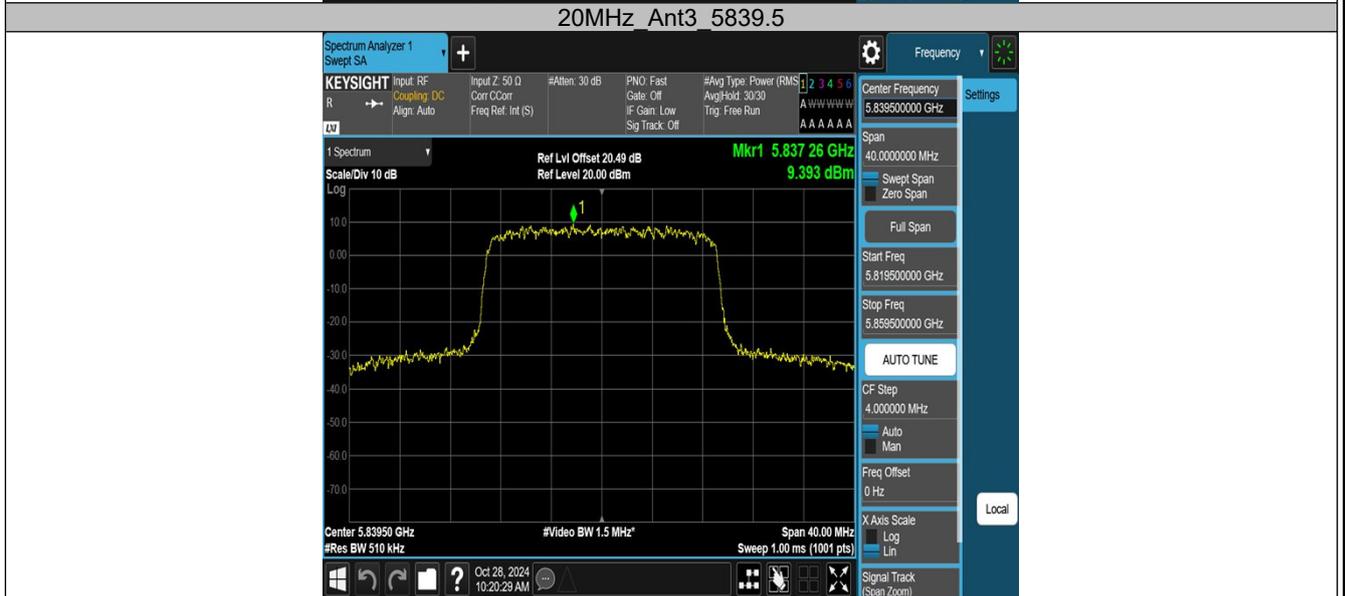
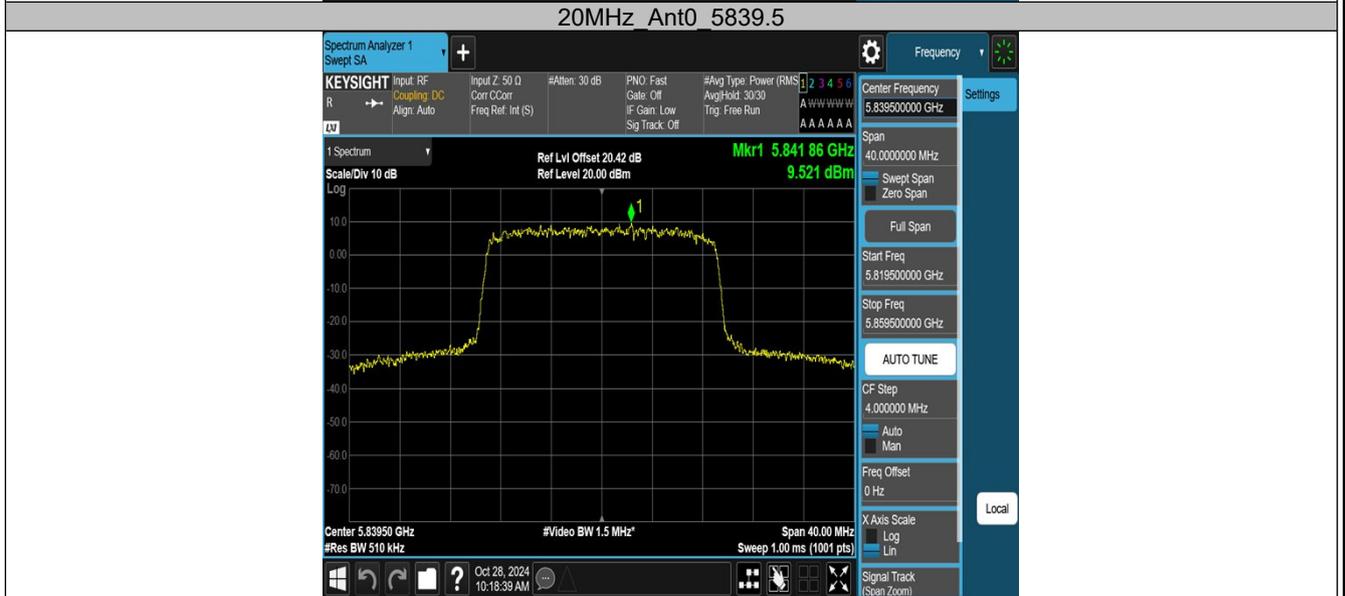
MIMO mode (Worst case_ANT0+ANT3)

TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
20MHz	Ant0	5735.5	9.63	≤30.00	PASS
	Ant3	5735.5	9.16	≤30.00	PASS
	total	5735.5	12.41	≤30.00	PASS
	Ant0	5787.5	9.35	≤30.00	PASS
	Ant3	5787.5	9.22	≤30.00	PASS
	total	5787.5	12.30	≤30.00	PASS
	Ant0	5839.5	9.52	≤30.00	PASS
	Ant3	5839.5	9.39	≤30.00	PASS
	total	5839.5	12.47	≤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, 40MHz BW

SISO mode (Worst case_ANT0)

TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
40MHz	Ant0	5745.5	5.11	≤30.00	PASS
		5787.5	8.65	≤30.00	PASS
		5829.5	4.35	≤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.

40MHz Ant0 5745.5



40MHz Ant0 5787.5



40MHz Ant0 5829.5

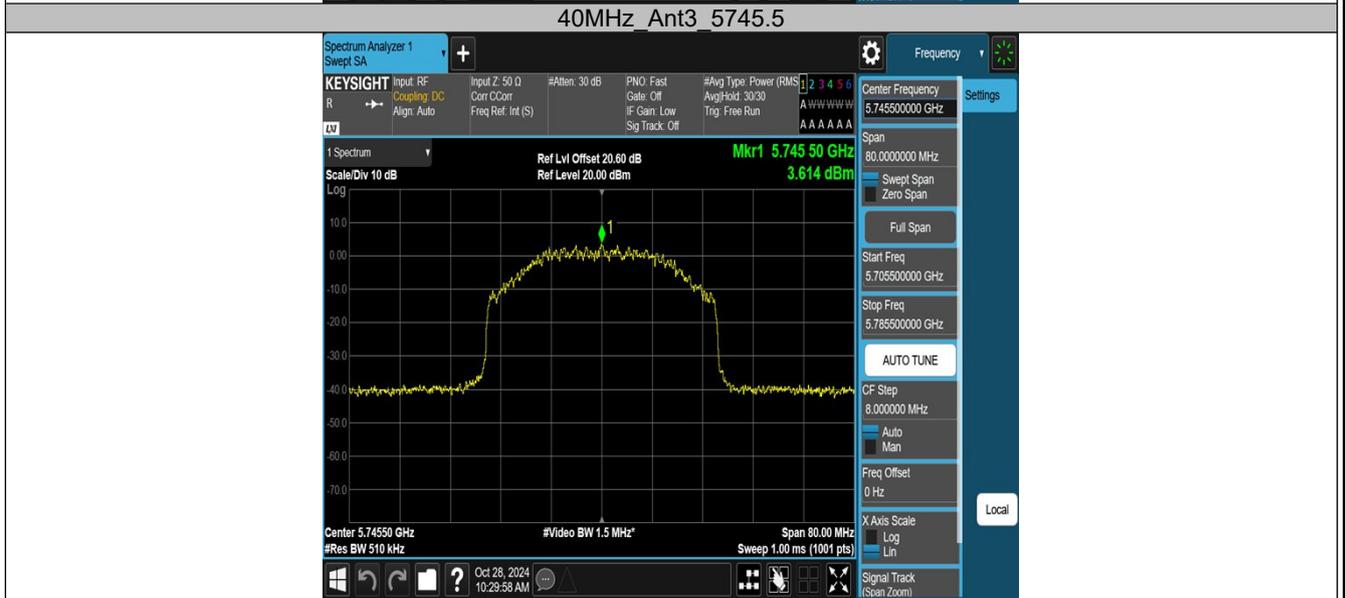


MIMO mode (Worst case_ANT0+ANT3)

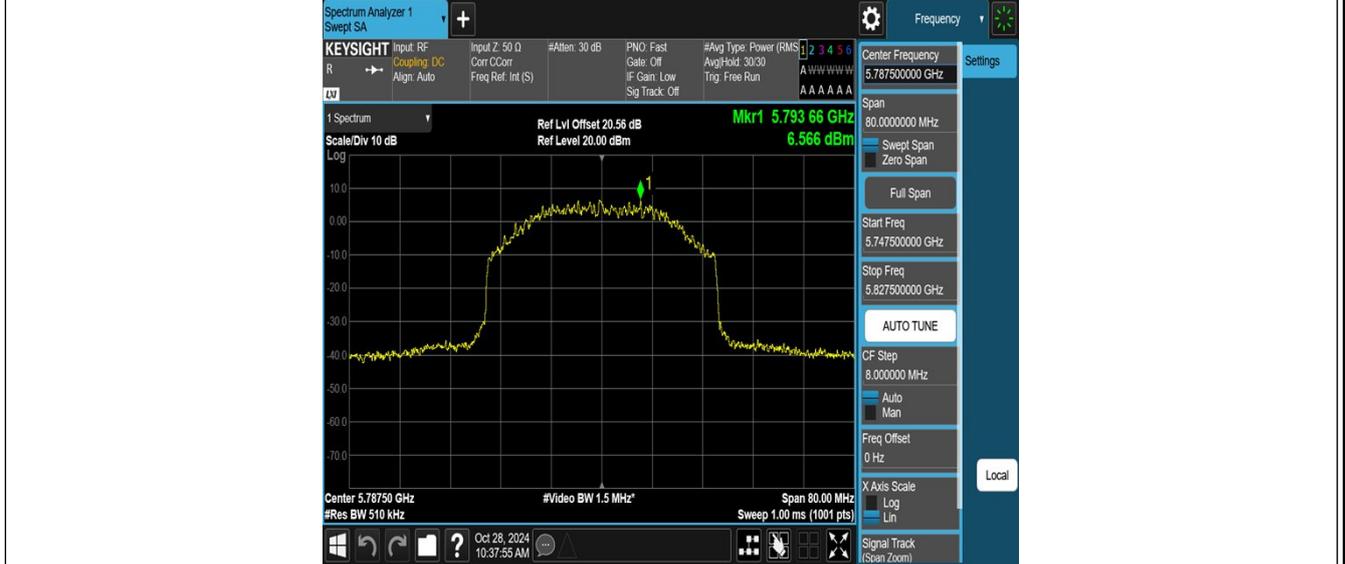
TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
40MHz	Ant0	5745.5	2.82	≤30.00	PASS
	Ant3	5745.5	3.61	≤30.00	PASS
	total	5745.5	6.24	≤30.00	PASS
	Ant0	5787.5	6.13	≤30.00	PASS
	Ant3	5787.5	6.57	≤30.00	PASS
	total	5787.5	9.37	≤30.00	PASS
	Ant0	5829.5	2.03	≤30.00	PASS
	Ant3	5829.5	4.47	≤30.00	PASS
	total	5829.5	6.43	≤30.00	PASS

Note:

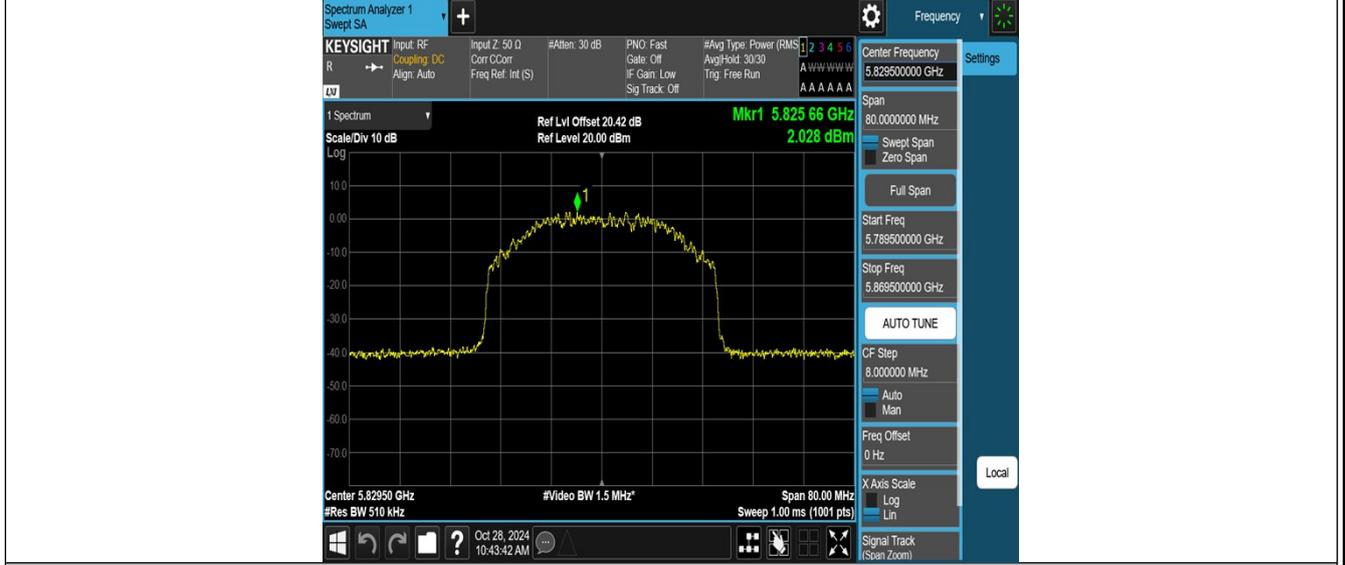
1. The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.



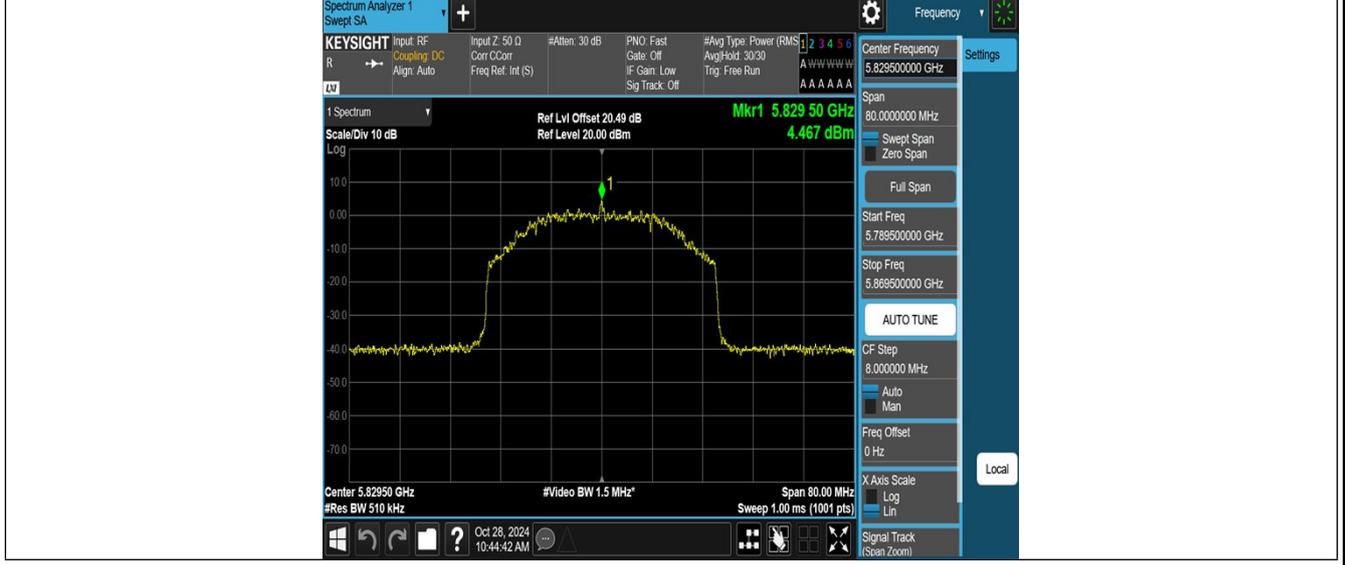
40MHz Ant3 5787.5



40MHz Ant0 5829.5



40MHz Ant3 5829.5



5.8G SDR, 60MHz BW

SISO mode (Worst case_ANT0)

TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
60MHz	Ant0	5755.5	3.09	≤30.00	PASS
		5787.5	3.27	≤30.00	PASS
		5819.5	1.37	≤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.



MIMO mode (Worst case_ANT0+ANT3)

TestMode	Antenna	Channel	Result[dBm/500kHz]	Limit[dBm/500kHz]	Verdict
60MHz	Ant0	5755.5	1.14	≤30.00	PASS
	Ant3	5755.5	1.00	≤30.00	PASS
	total	5755.5	4.08	≤30.00	PASS
	Ant0	5787.5	0.32	≤30.00	PASS
	Ant3	5787.5	1.47	≤30.00	PASS
	total	5787.5	3.94	≤30.00	PASS
	Ant0	5819.5	-0.28	≤30.00	PASS
	Ant3	5819.5	0.15	≤30.00	PASS
	total	5819.5	2.95	≤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.