

Appendix Test Data

Report No:	18220WC30257603 (module RTL873IBU)	Test Sample NO:	1-2-2
Start Test Date:	2023.12.17	Finish Test Date:	2023.12.18
Test Engineer:	Hayman Chen	Auditor:	Rock Luo
Temperature:	25.3°C	Relative Humidity:	47%
Pressure:	101kPa		

Appendix A1: 26dB Bandwidth

Test Result

TestMode	Antenna	Frequency [MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
802.11a	Ant1	5180	19.280	5170.520	5189.800	---	---
		5200	19.080	5190.480	5209.560	---	---
		5240	19.160	5230.440	5249.600	---	---
		5260	19.400	5250.400	5269.800	---	---
		5300	18.960	5290.680	5309.640	---	---
		5320	19.040	5310.480	5329.520	---	---
		5500	19.400	5490.400	5509.800	---	---
		5600	19.160	5590.560	5609.720	---	---
		5700	19.160	5690.600	5709.760	---	---
		5745	19.320	5735.440	5754.760	---	---
		5785	19.280	5775.560	5794.840	---	---
802.11n(HT20) SISO	Ant1	5825	19.480	5815.480	5834.960	---	---
		5180	20.480	5170.000	5190.480	---	---
		5200	20.000	5190.080	5210.080	---	---
		5240	20.640	5229.800	5250.440	---	---
		5260	20.040	5250.320	5270.360	---	---
		5300	20.120	5290.280	5310.400	---	---
		5320	20.320	5309.800	5330.120	---	---
		5500	20.280	5490.040	5510.320	---	---
		5600	20.560	5589.720	5610.280	---	---
		5700	20.880	5689.560	5710.440	---	---
		5745	20.040	5735.200	5755.240	---	---
		5785	20.240	5774.800	5795.040	---	---
		5825	20.320	5814.960	5835.280	---	---

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Test Graphs

802.11a_Ant1_5180



802.11a_Ant1_5200



802.11a_Ant1_5240

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802.11a_Ant1_5260



802.11a_Ant1_5300



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802.11a_Ant1_5320



802.11a_Ant1_5500



802.11a_Ant1_5600





802.11a_Ant1_5700



802.11a_Ant1_5745



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802.11a_Ant1_5785



802.11a_Ant1_5825



802.11n(HT20) SISO_Ant1_5180

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802.11n(HT20) SISO_Ant1_5200



802.11n(HT20) SISO_Ant1_5240



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802.11n(HT20) SISO_Ant1_5260



802.11n(HT20) SISO_Ant1_5300



802.11n(HT20) SISO_Ant1_5320

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802.11n(HT20) SISO_Ant1_5500



802.11n(HT20) SISO_Ant1_5600



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802.11n(HT20) SISO_Ant1_5700



802.11n(HT20) SISO_Ant1_5745



802.11n(HT20) SISO_Ant1_5785

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Appendix A2: 99% Occupied Bandwidth

Test Result

TestMode	Antenna	Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
802.11a	Ant1	5180	16.476	5171.8549	5188.3309	---	---
		5200	16.467	5191.8356	5208.3026	---	---
		5240	16.459	5231.8578	5248.3168	---	---
		5260	16.506	5251.8235	5268.3295	---	---
		5300	16.502	5291.8385	5308.3405	---	---
		5320	16.477	5311.8487	5328.3257	---	---
		5500	16.486	5491.8521	5508.3381	---	---
		5600	16.472	5591.8424	5608.3144	---	---
		5700	16.482	5691.8446	5708.3266	---	---
		5745	16.460	5736.8567	5753.3167	---	---
		5785	16.489	5776.8757	5793.3647	---	---
		5825	16.494	5816.8650	5833.3590	---	---
802.11n(HT20) SISO	Ant1	5180	17.606	5171.2874	5188.8934	---	---
		5200	17.586	5191.2847	5208.8707	---	---
		5240	17.562	5231.2856	5248.8476	---	---
		5260	17.563	5251.2730	5268.8360	---	---
		5300	17.564	5291.2943	5308.8583	---	---
		5320	17.619	5311.2981	5328.9171	---	---
		5500	17.560	5491.2883	5508.8483	---	---
		5600	17.566	5591.2760	5608.8420	---	---
		5700	17.600	5691.2866	5708.8866	---	---
		5745	17.557	5736.3244	5753.8814	---	---
		5785	17.587	5776.2927	5793.8797	---	---
		5825	17.616	5816.3066	5833.9226	---	---



Test Graphs



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802.11a_Ant1_5260



802.11a_Ant1_5300



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802.11a_Ant1_5320



802.11a_Ant1_5500



802.11a_Ant1_5600

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802.11a_Ant1_5700



802.11a_Ant1_5745



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802.11a_Ant1_5785



802.11a_Ant1_5825



802.11n(HT20) SISO_Ant1_5180

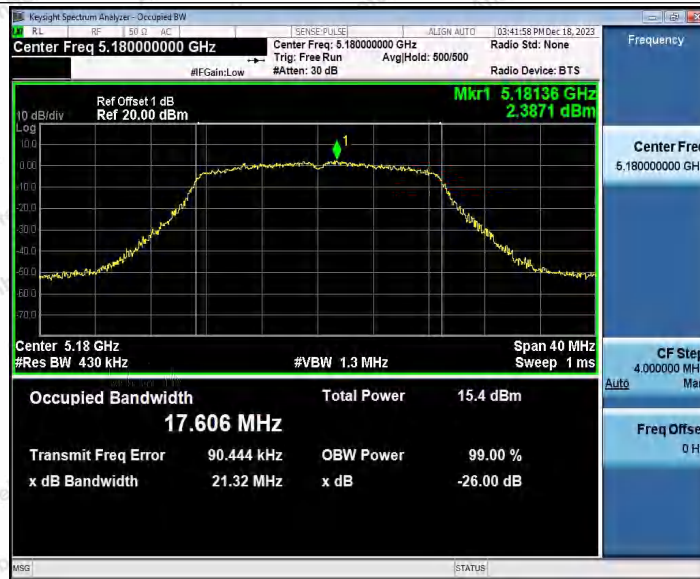
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802.11n(HT20) SISO_Ant1_5200



802.11n(HT20) SISO_Ant1_5240



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802.11n(HT20) SISO_Ant1_5260



802.11n(HT20) SISO_Ant1_5300



802.11n(HT20) SISO_Ant1_5320

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802.11n(HT20) SISO_Ant1_5500



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802.11n(HT20) SISO_Ant1_5700



802.11n(HT20) SISO_Ant1_5745



802.11n(HT20) SISO_Ant1_5785

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802.11n(HT20) SISO_Ant1_5825



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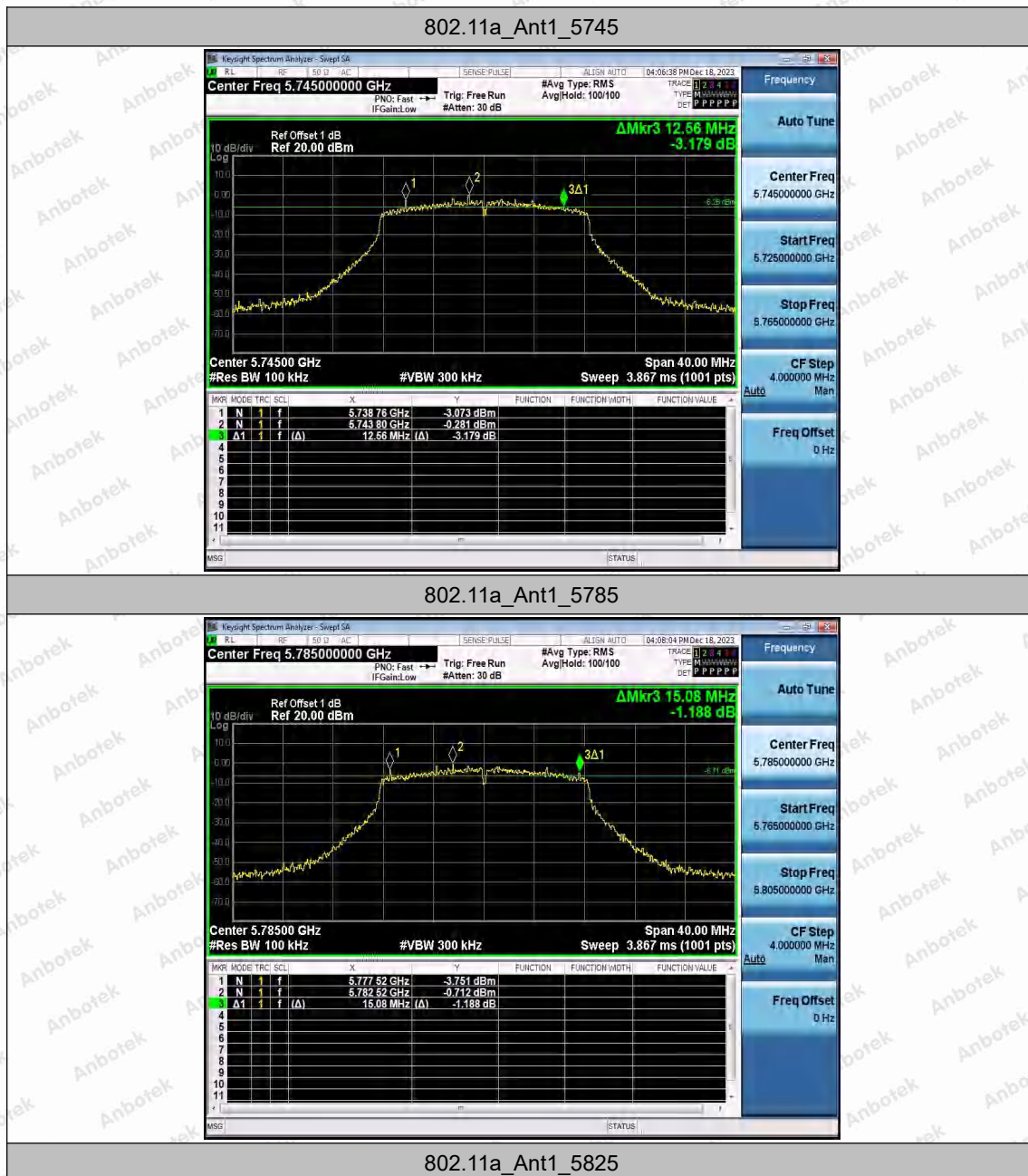
Appendix A3: Min 6dB bandwidth

Test Result B4

TestMode	Antenna	Frequency [MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
802.11a	Ant1	5745	12.560	5738.760	5751.320	0.5	PASS
		5785	15.080	5777.520	5792.600	0.5	PASS
		5825	13.800	5818.160	5831.960	0.5	PASS
802.11n(HT20) SISO	Ant1	5745	13.760	5738.760	5752.520	0.5	PASS
		5785	13.800	5777.560	5791.360	0.5	PASS
		5825	14.000	5818.800	5832.800	0.5	PASS



Test Graphs B4



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802.11n(HT20) SISO_Ant1_5745



802.11n(HT20) SISO_Ant1_5785



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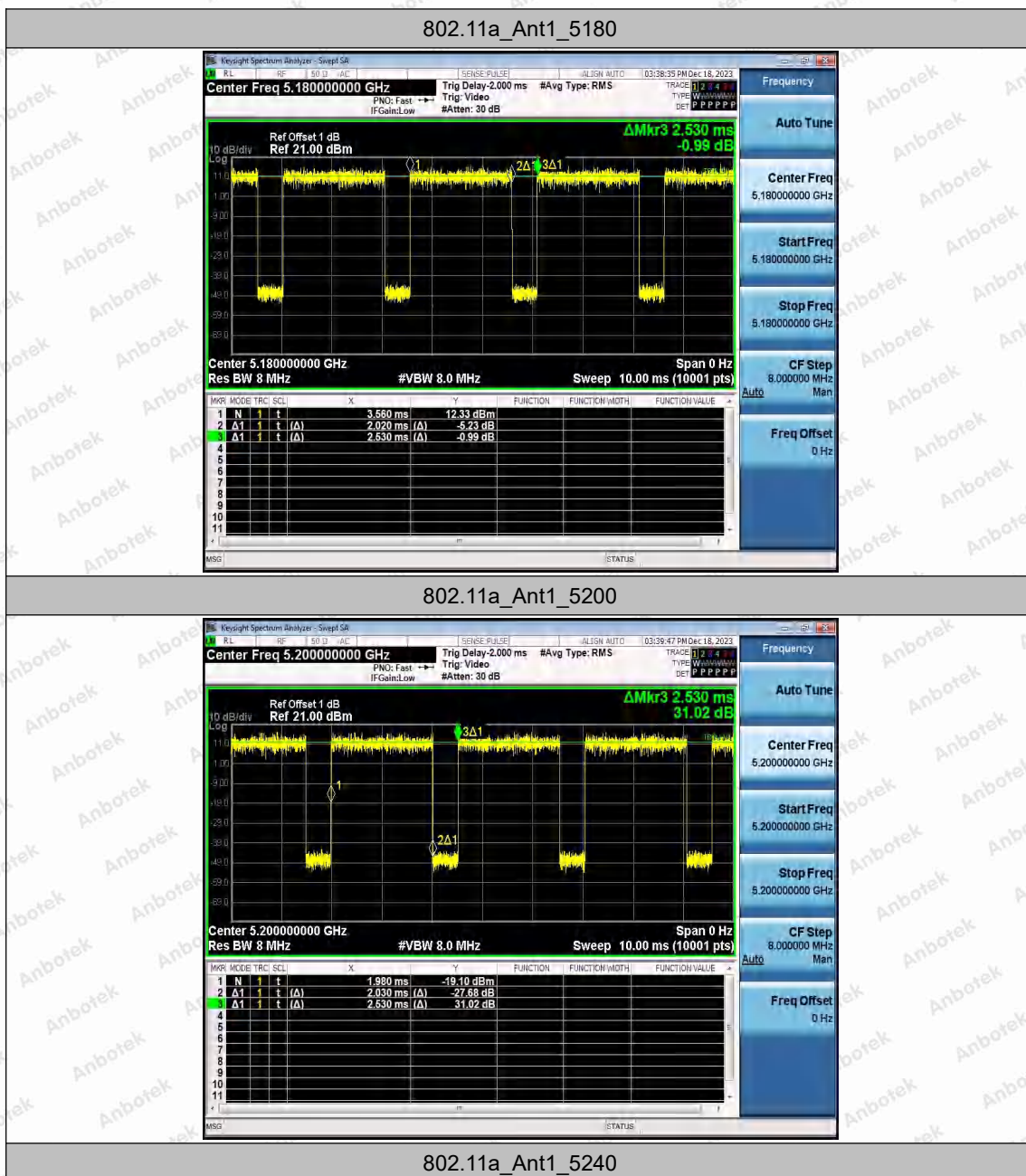
Appendix B: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
802.11a	Ant1	5180	2.02	2.53	79.84
		5200	2.03	2.53	80.24
		5240	2.03	2.53	80.24
		5260	2.03	2.53	80.24
		5300	2.02	2.53	79.84
		5320	2.02	2.53	79.84
		5500	2.03	2.53	80.24
		5600	2.03	2.53	80.24
		5700	2.03	2.53	80.24
		5745	2.02	2.53	79.84
		5785	2.03	2.53	80.24
		5825	2.03	2.53	80.24
802.11n(HT20) SISO	Ant1	5180	1.89	2.39	79.08
		5200	1.89	2.39	79.08
		5240	1.89	2.39	79.08
		5260	1.89	2.39	79.08
		5300	1.89	2.39	79.08
		5320	1.89	2.39	79.08
		5500	1.89	2.39	79.08
		5600	1.89	2.39	79.08
		5700	1.89	2.39	79.08
		5745	1.89	2.39	79.08
		5785	1.89	2.40	78.75
		5825	1.89	2.39	79.08



Test Graphs



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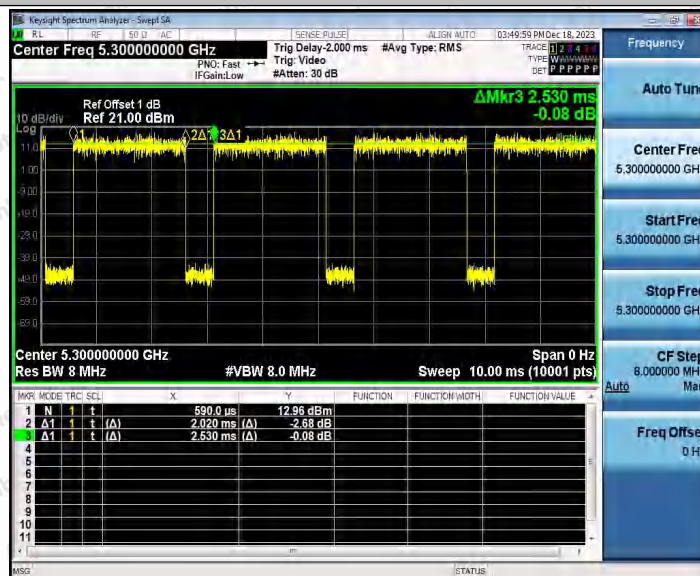




802.11a_Ant1_5260



802.11a_Ant1_5300



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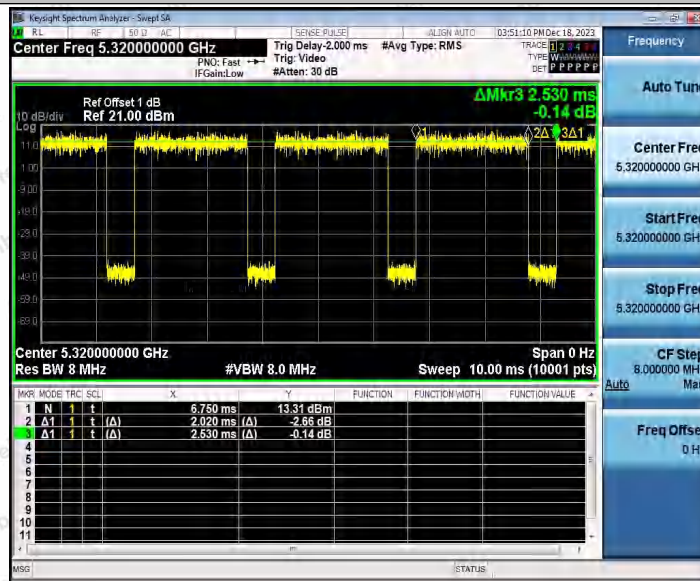
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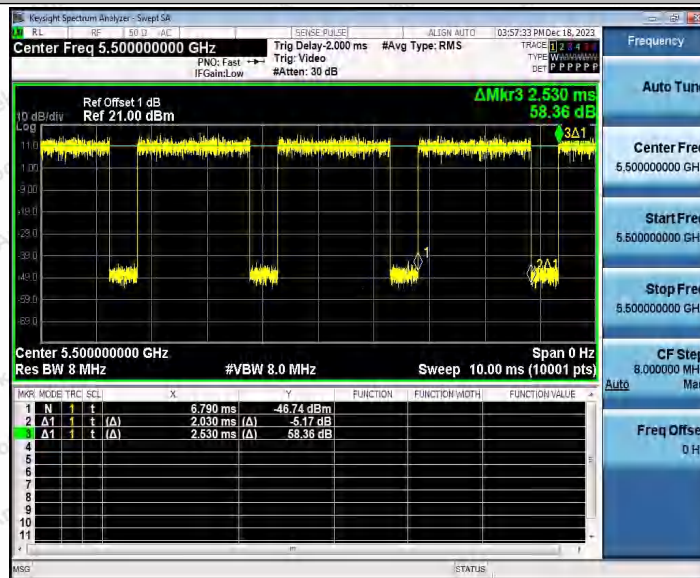
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802.11a_Ant1_5320



802.11a_Ant1_5500



802.11a_Ant1_5600

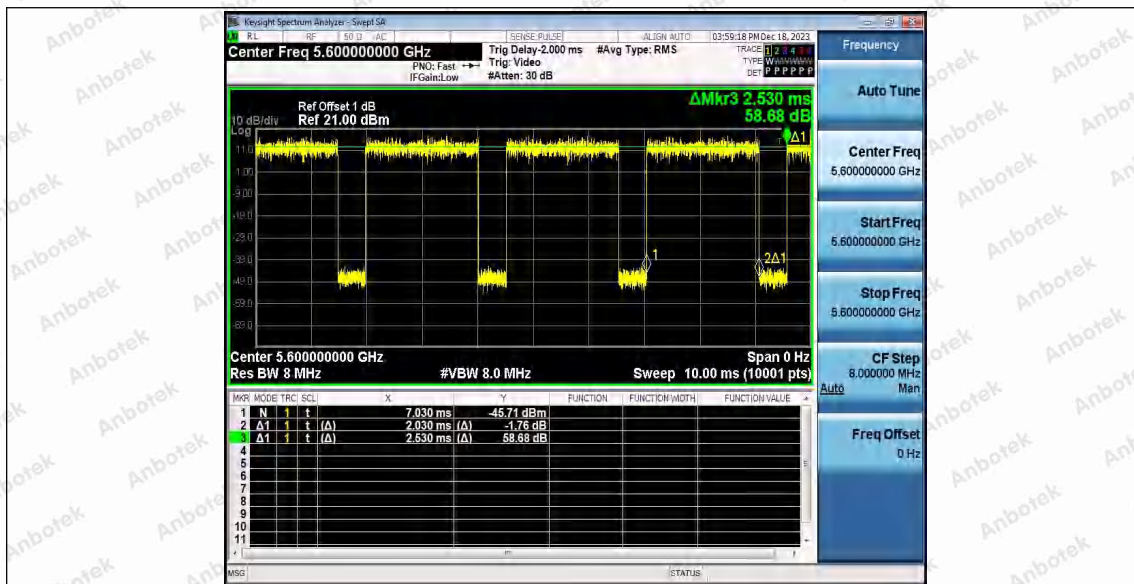
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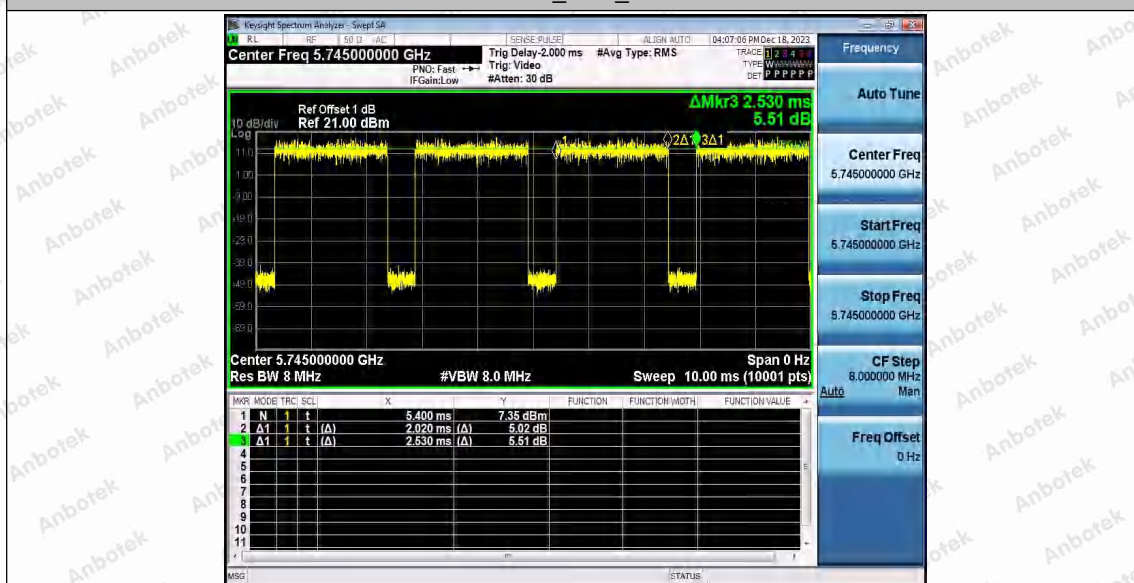




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802.11a_Ant1_5745



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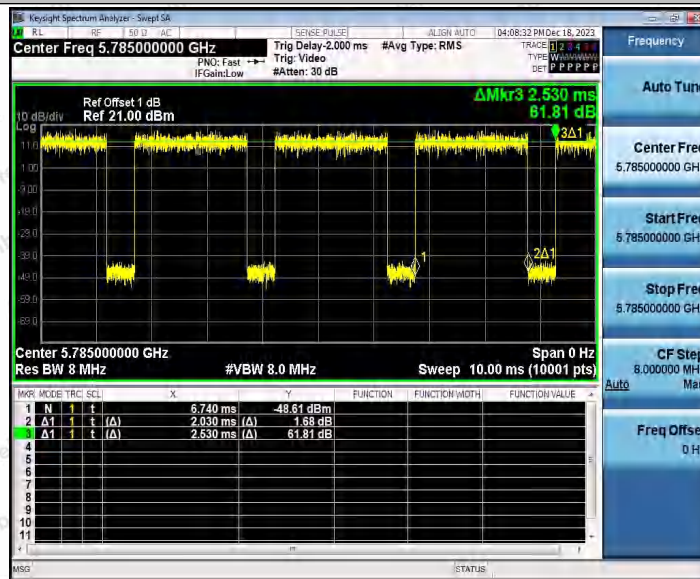
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802.11a_Ant1_5785



802.11a_Ant1_5825



802.11n(HT20) SISO_Ant1_5180

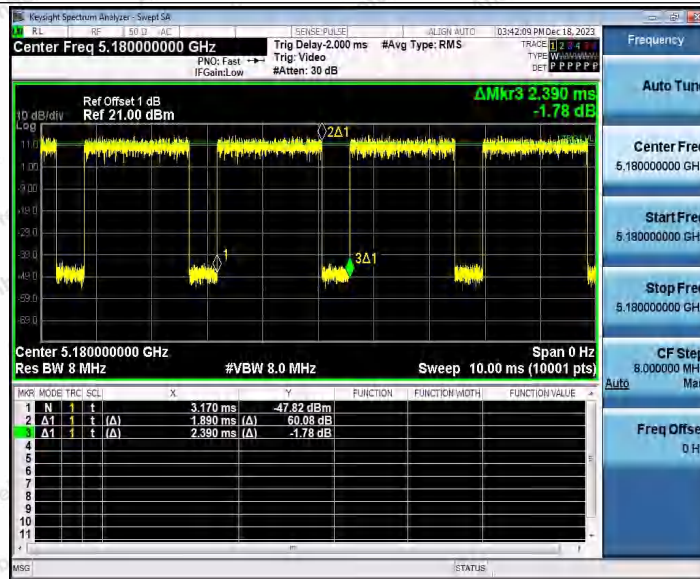
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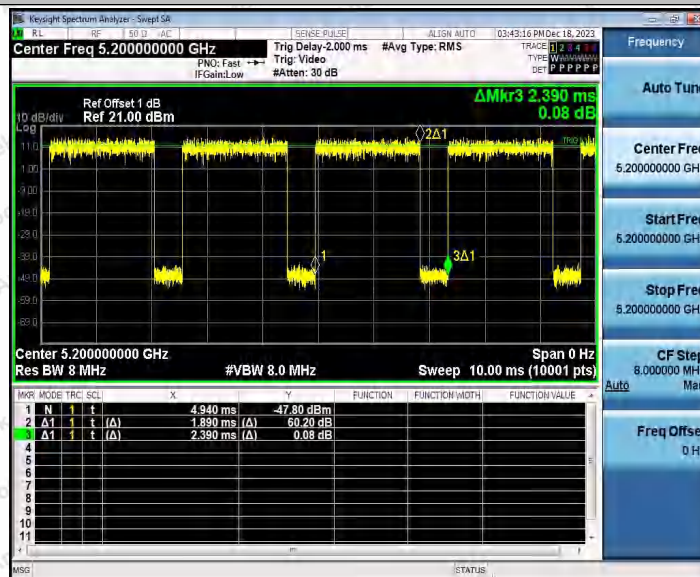


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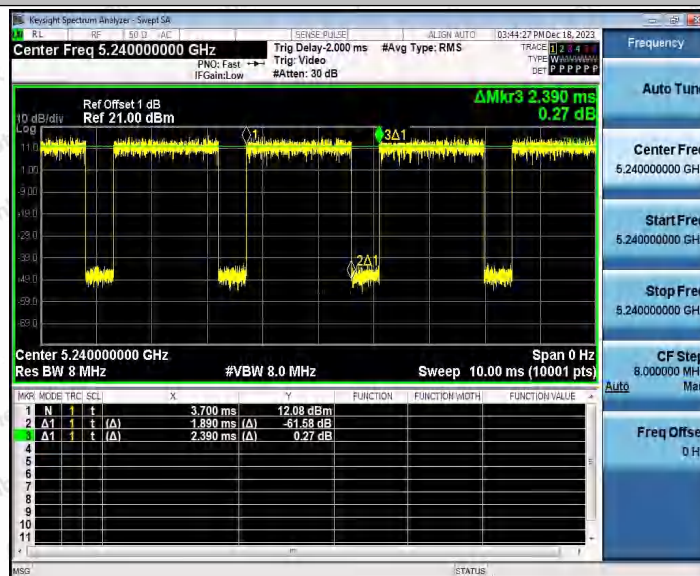




802.11n(HT20) SISO_Ant1_5200



802.11n(HT20) SISO_Ant1_5240



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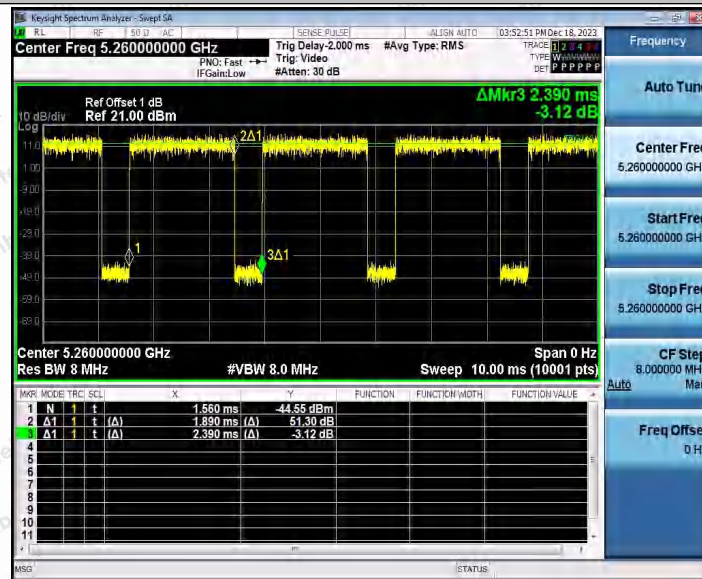
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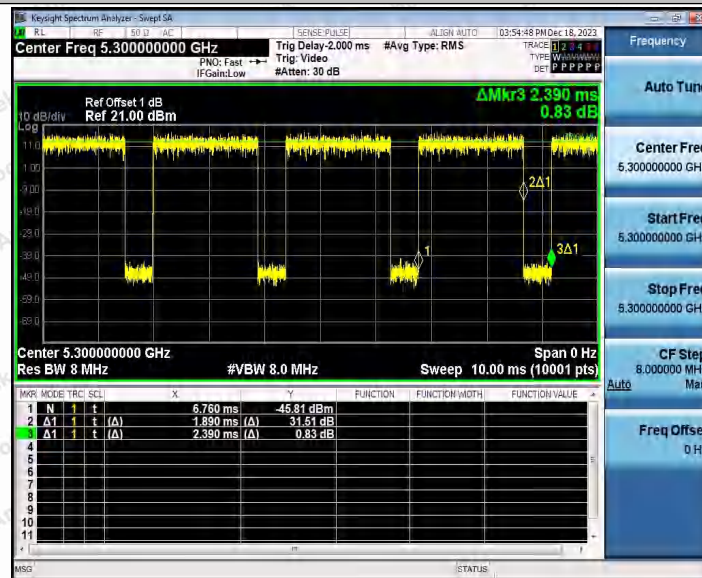
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802.11n(HT20) SISO_Ant1_5260



802.11n(HT20) SISO_Ant1_5300



802.11n(HT20) SISO_Ant1_5320

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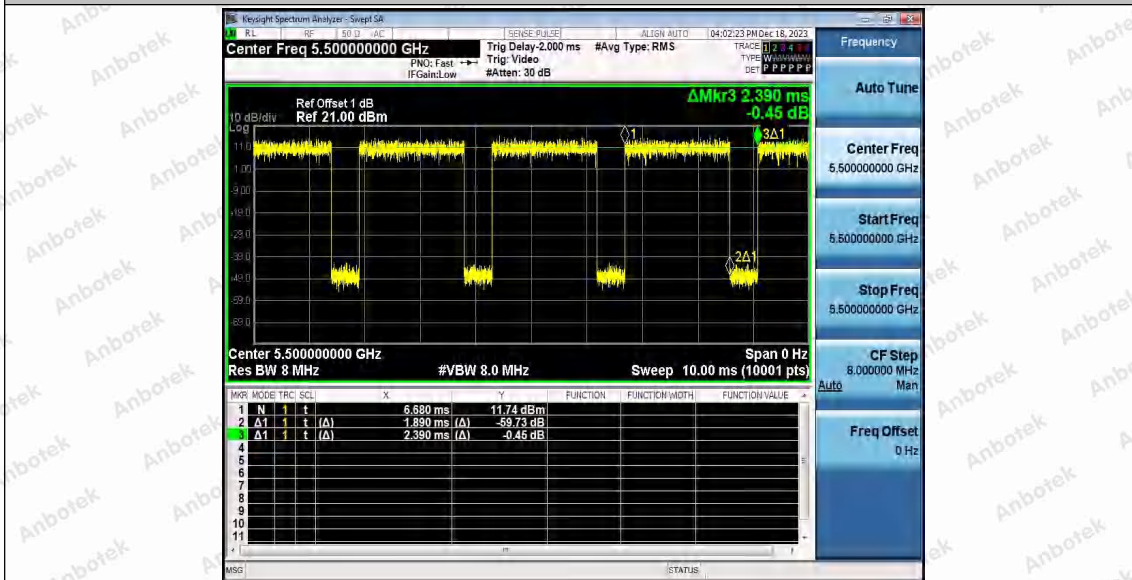


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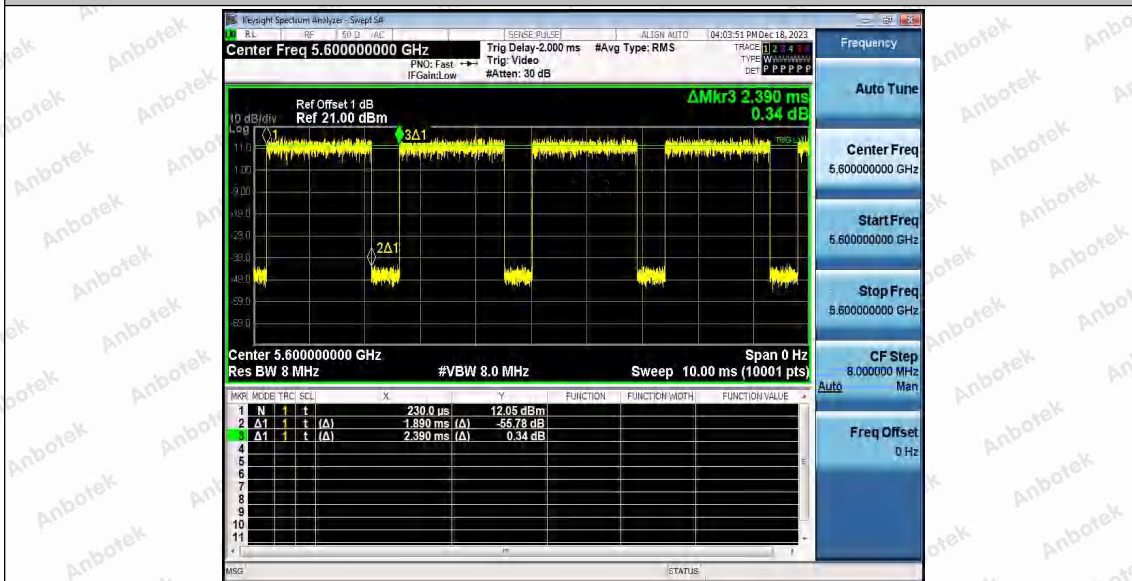




802.11n(HT20) SISO_Ant1_5500



802.11n(HT20) SISO_Ant1_5600



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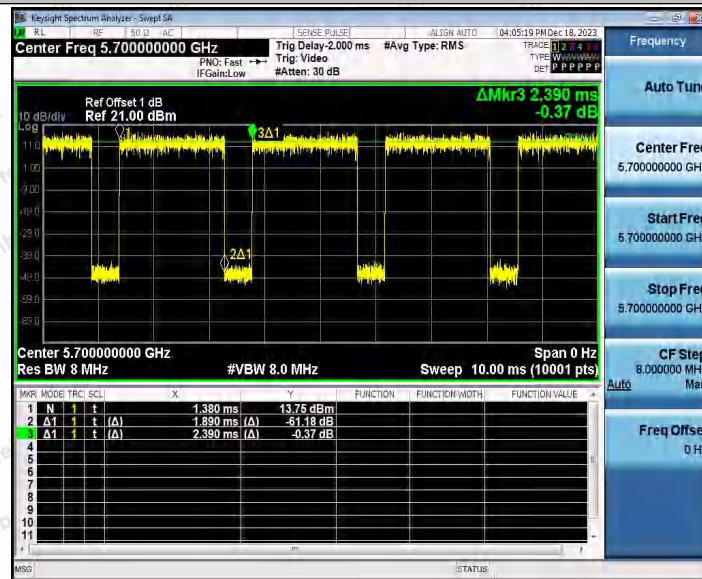
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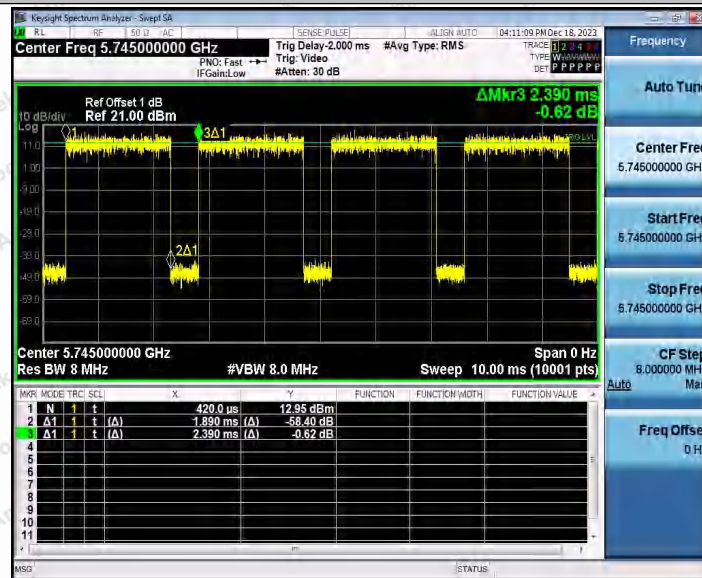
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802.11n(HT20) SISO_Ant1_5700



802.11n(HT20) SISO_Ant1_5745



802.11n(HT20) SISO_Ant1_5785

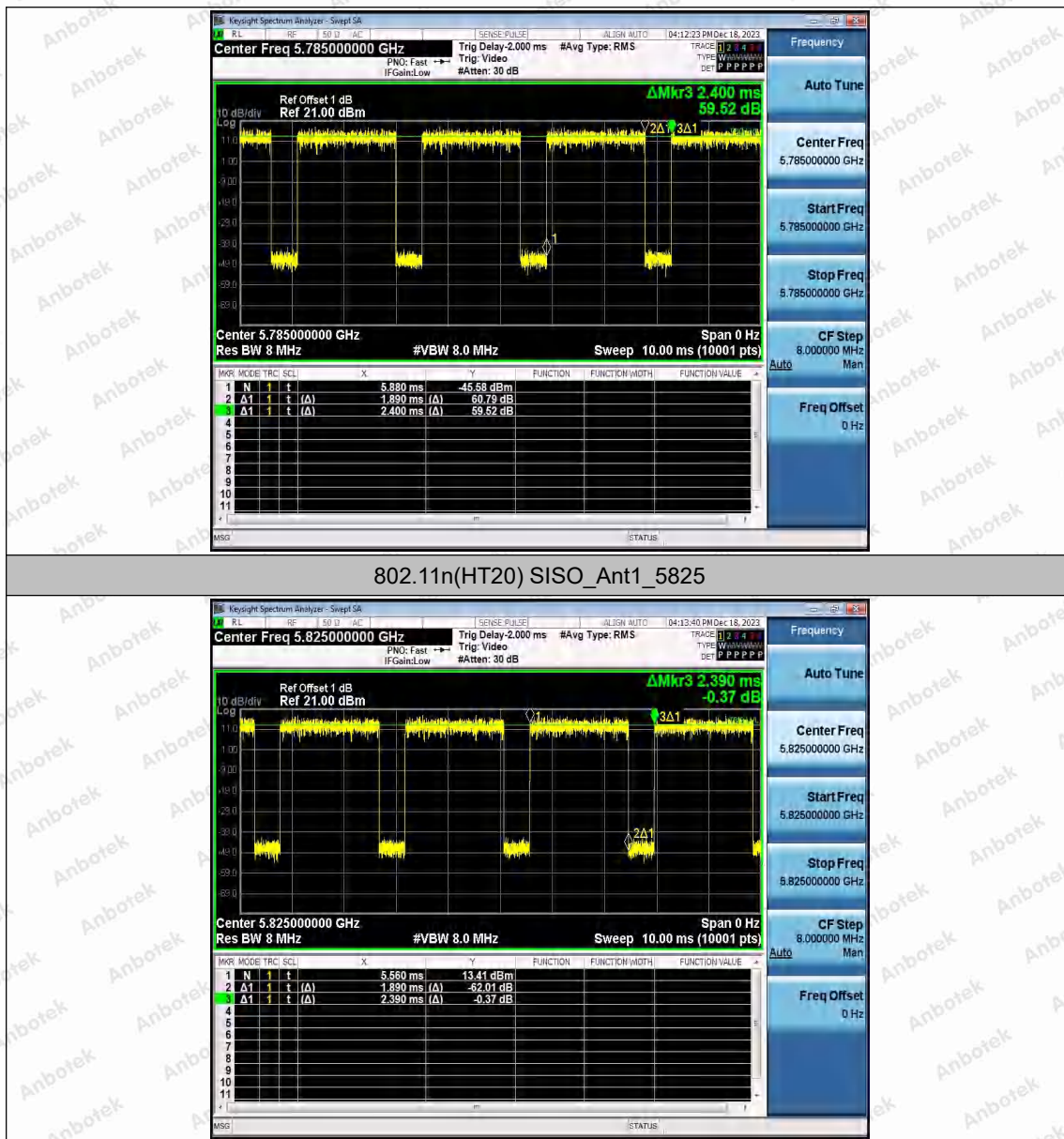
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802.11n(HT20) SISO_Ant1_5825

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Appendix C: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency [MHz]	Set Power	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]
802.11a	Ant1	5180	---	13.62	79.84	0.98	14.60	≤23.98
		5200	---	13.79	80.24	0.96	14.75	≤23.98
		5240	---	14.20	80.24	0.96	15.16	≤23.98
		5260	---	14.29	80.24	0.96	15.25	≤23.88
		5300	---	14.42	79.84	0.98	15.40	≤23.78
		5320	---	14.56	79.84	0.98	15.54	≤23.80
		5500	---	13.41	80.24	0.96	14.37	≤23.88
		5600	---	14.35	80.24	0.96	15.31	≤23.82
		5700	---	15.28	80.24	0.96	16.24	≤23.82
		5745	---	14.98	79.84	0.98	15.96	≤30.00
		5785	---	15.57	80.24	0.96	16.53	≤30.00
		5825	---	15.57	80.24	0.96	16.53	≤30.00
802.11n(HT20) SISO	Ant1	5180	---	13.53	79.08	1.02	14.55	≤23.98
		5200	---	13.61	79.08	1.02	14.63	≤23.98
		5240	---	14.02	79.08	1.02	15.04	≤23.98
		5260	---	14.08	79.08	1.02	15.10	≤23.98
		5300	---	14.18	79.08	1.02	15.20	≤23.98
		5320	---	14.37	79.08	1.02	15.39	≤23.98
		5500	---	13.12	79.08	1.02	14.14	≤23.98
		5600	---	14.04	79.08	1.02	15.06	≤23.98
		5700	---	15.06	79.08	1.02	16.08	≤23.98
		5745	---	14.76	79.08	1.02	15.78	≤30.00
		5785	---	15.30	78.75	1.04	16.34	≤30.00
		5825	---	15.30	79.08	1.02	16.32	≤30.00

TPC

Test Mode	Antenna	Frequency [MHz]	Set Power	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]
802.11a	Ant1	5260	---	5.44	80.24	0.96	6.40	≤23.98
		5300	---	5.75	79.84	0.98	6.73	≤23.98
		5320	---	6.04	79.84	0.98	7.02	≤23.98
		5500	---	8.77	80.24	0.96	9.73	≤23.98
		5580	---	9.20	94.14	0.26	9.46	≤23.98
		5700	---	10.53	80.24	0.96	11.49	≤23.98
802.11n(	Ant1	5260	---	5.51	79.08	1.02	6.53	≤23.98

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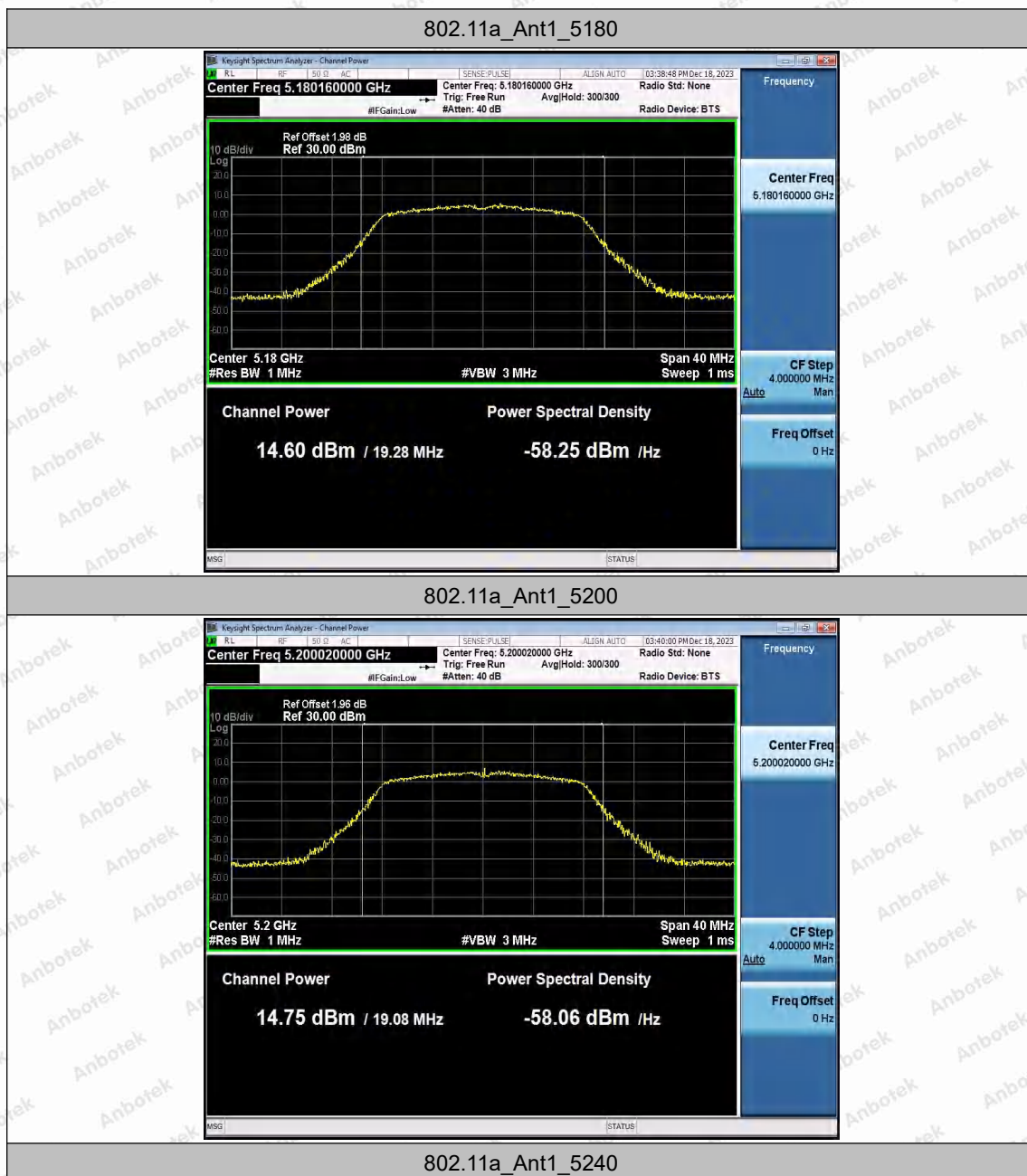


HT20) SISO	5300	---	5.62	79.08	1.02	6.64	≤23.98
	5320	---	5.73	79.08	1.02	6.75	≤23.98
	5500	---	8.70	79.08	1.02	9.72	≤23.98
	5580	---	9.18	90.99	0.41	9.59	≤23.98
	5700	---	10.45	79.08	1.02	11.47	≤23.98

Note: The Duty Cycle Factor is compensated in the graph.



Test Graphs Channel Power



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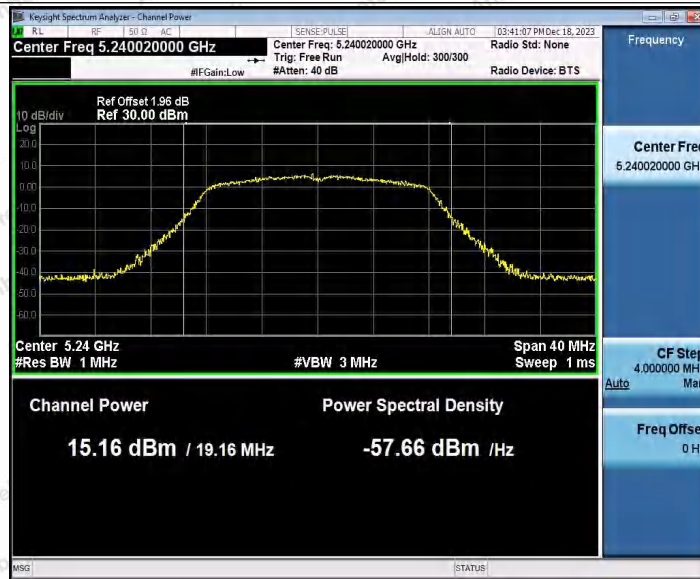


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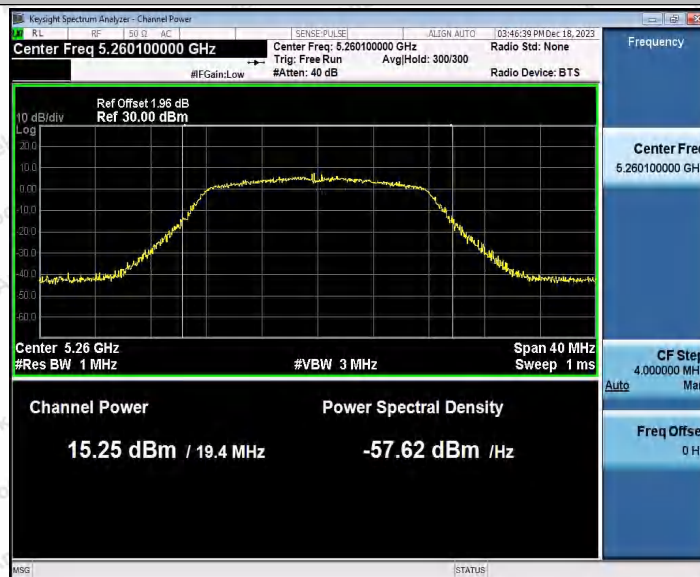
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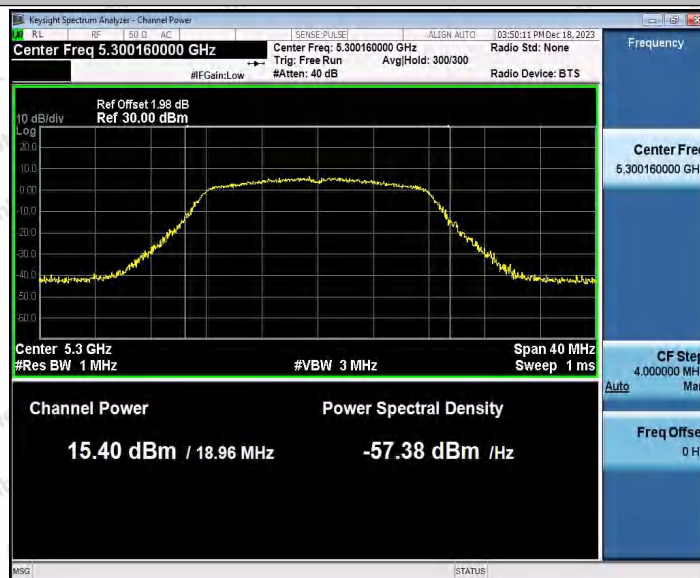




802.11a_Ant1_5260



802.11a_Ant1_5300



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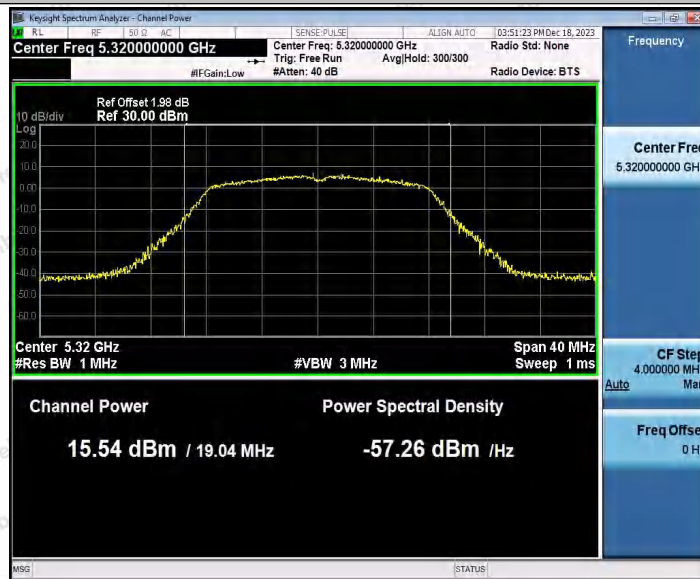
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802.11a_Ant1_5320



802.11a_Ant1_5500



802.11a_Ant1_5600

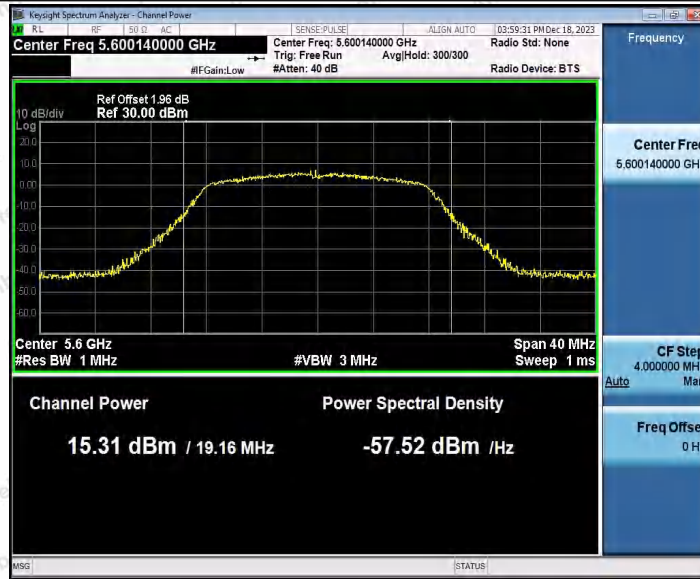
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802.11a_Ant1_5700



802.11a_Ant1_5745



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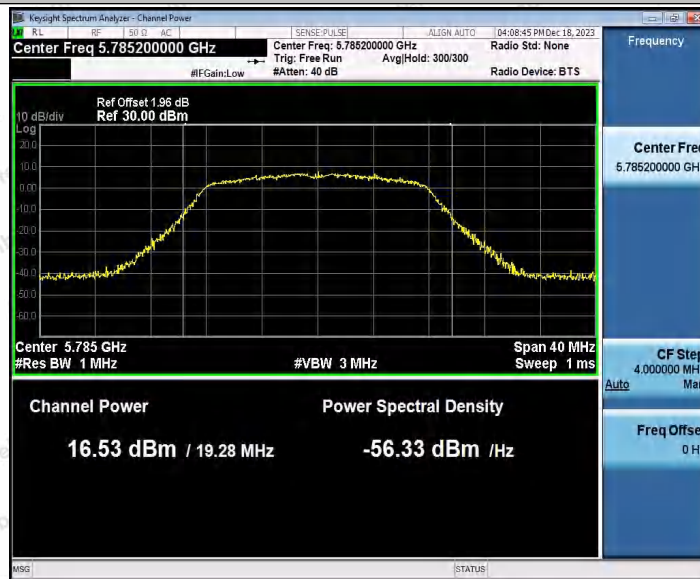
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802.11a_Ant1_5785



802.11a_Ant1_5825



802.11n(HT20) SISO_Ant1_5180

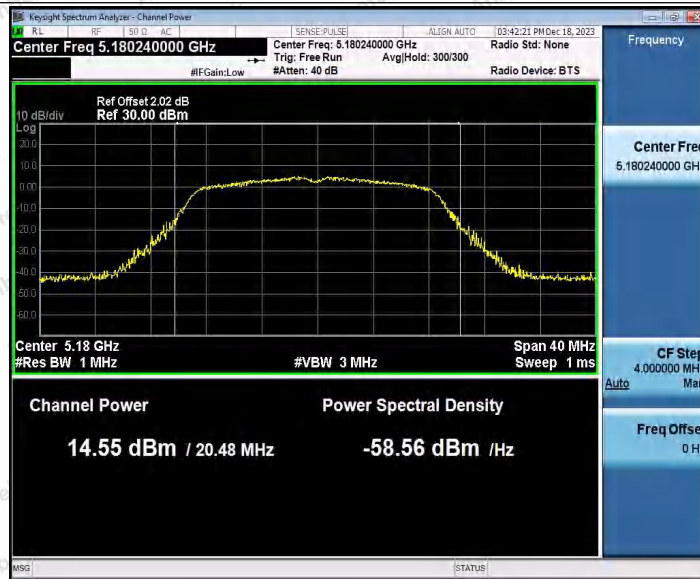
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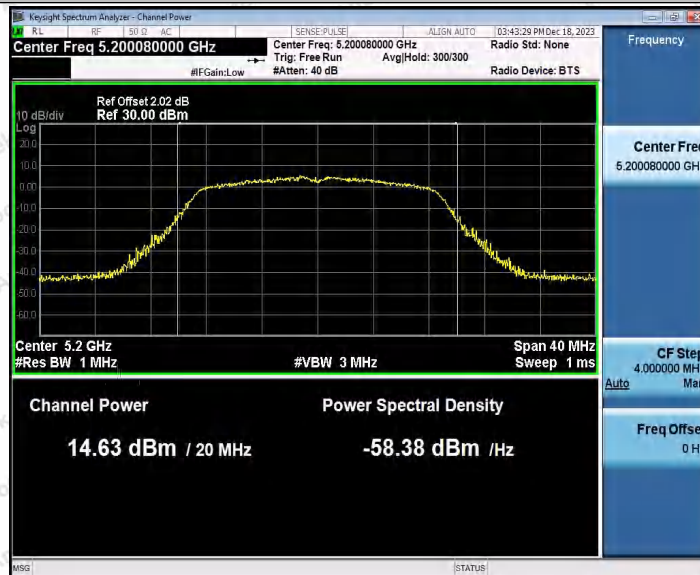


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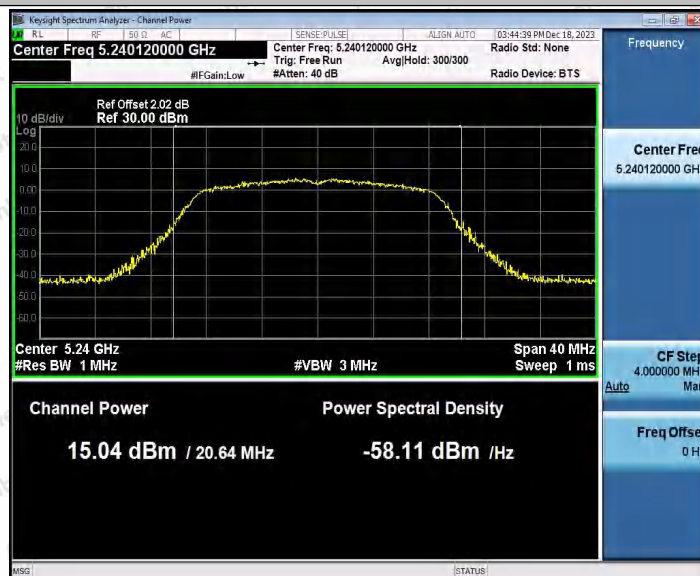




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802.11n(HT20) SISO_Ant1_5240



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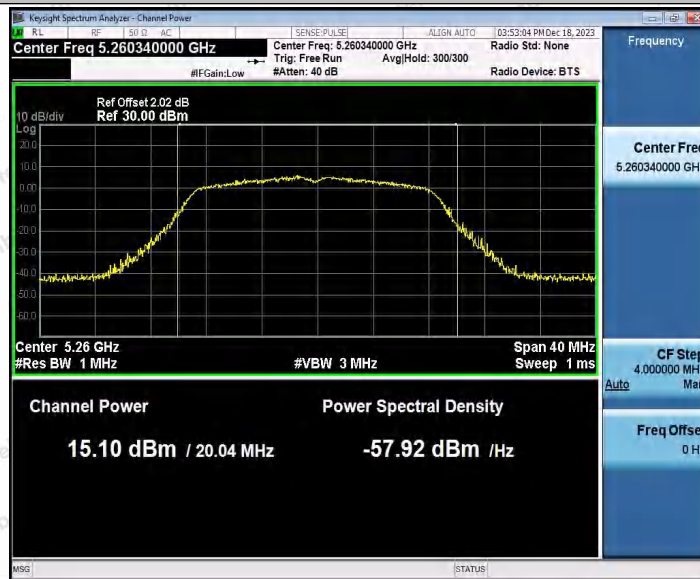
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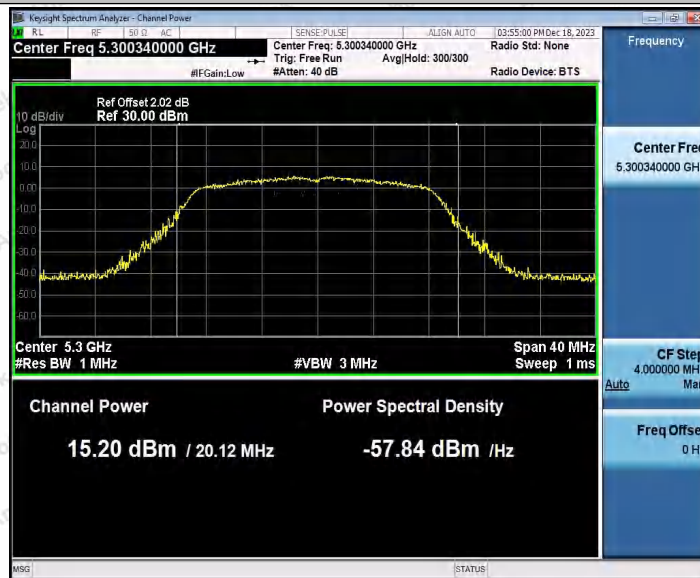
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802.11n(HT20) SISO_Ant1_5260



802.11n(HT20) SISO_Ant1_5300



802.11n(HT20) SISO_Ant1_5320

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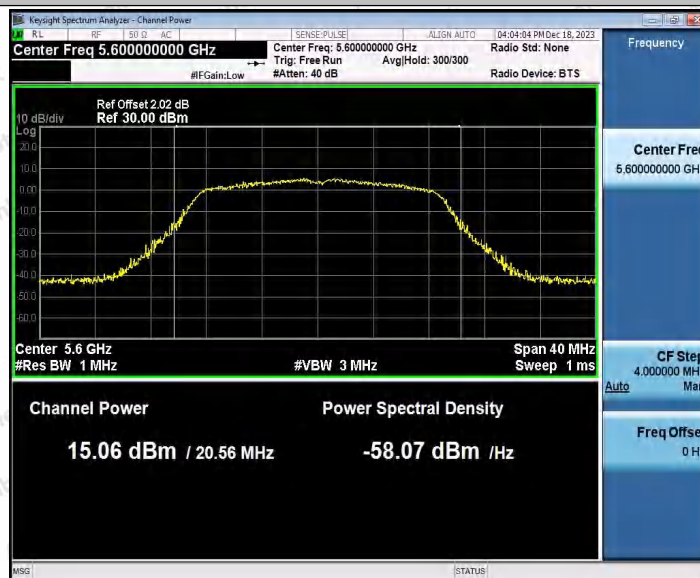




802.11n(HT20) SISO_Ant1_5500



802.11n(HT20) SISO_Ant1_5600

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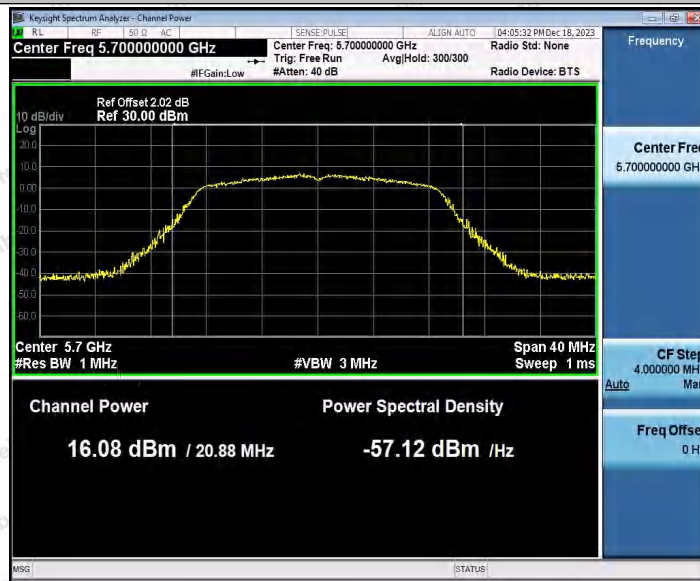
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802.11n(HT20) SISO_Ant1_5700



802.11n(HT20) SISO_Ant1_5745



802.11n(HT20) SISO_Ant1_5785

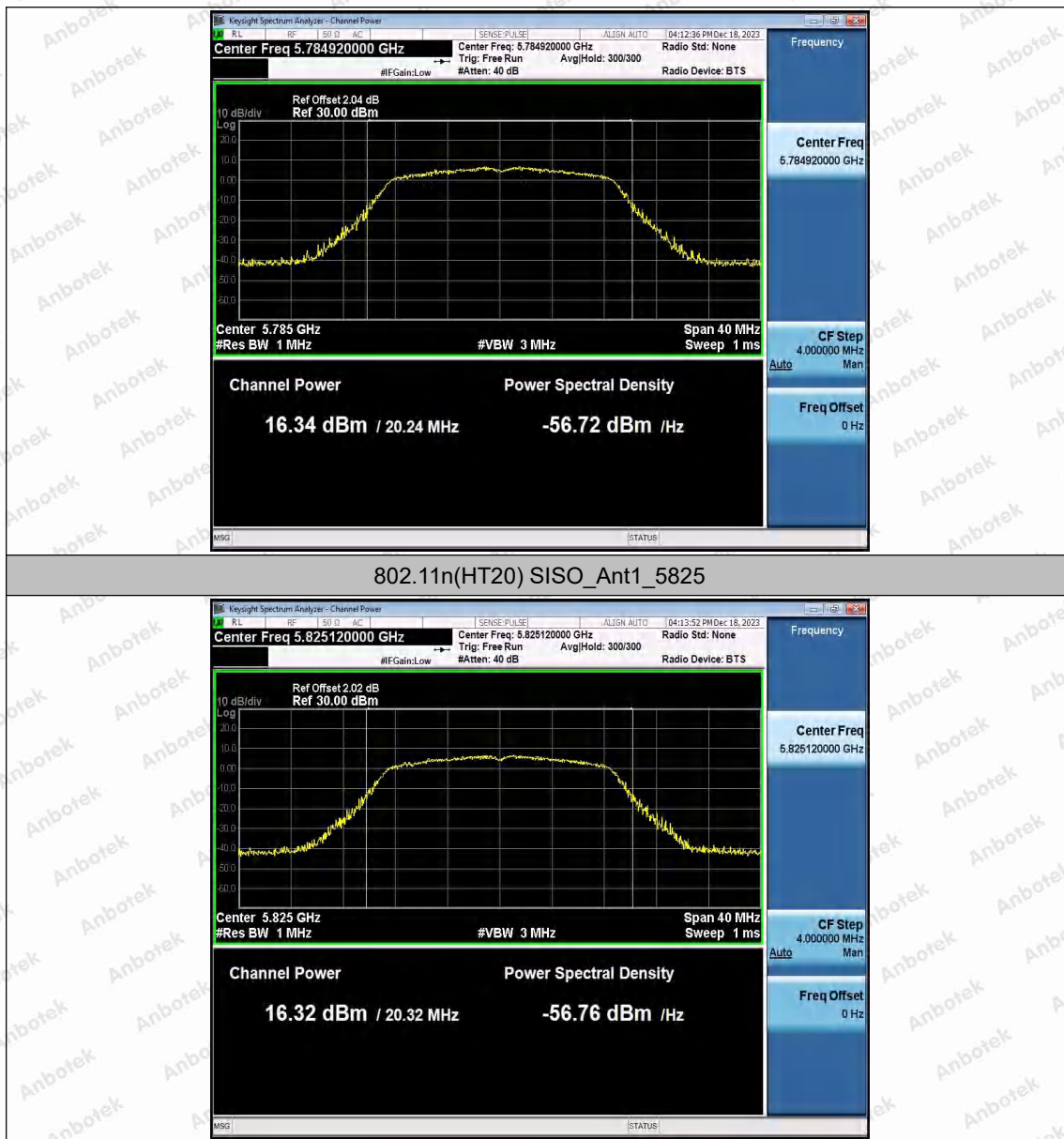
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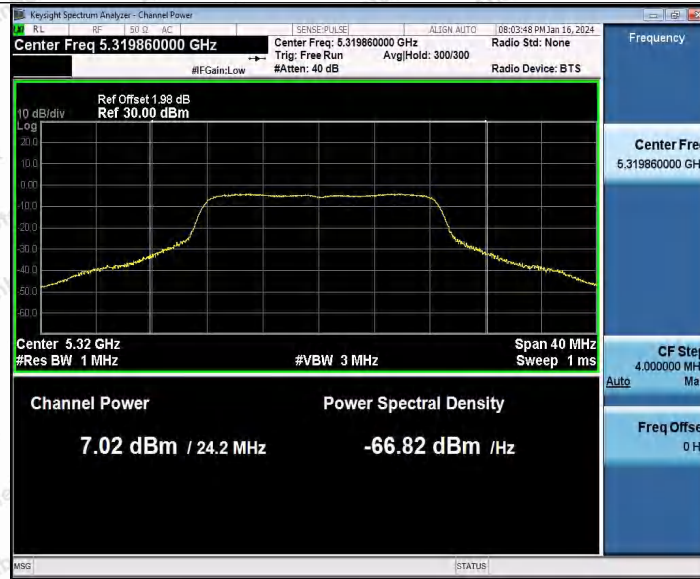
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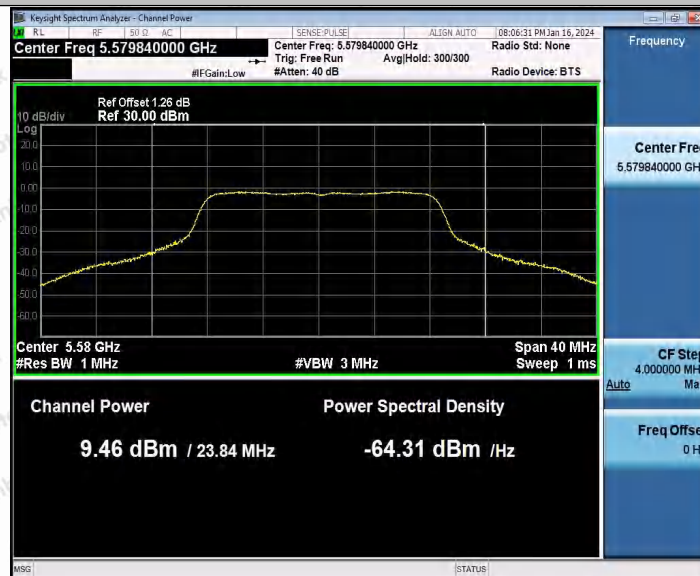




802.11a_Ant1_5500



802.11a_Ant1_5580



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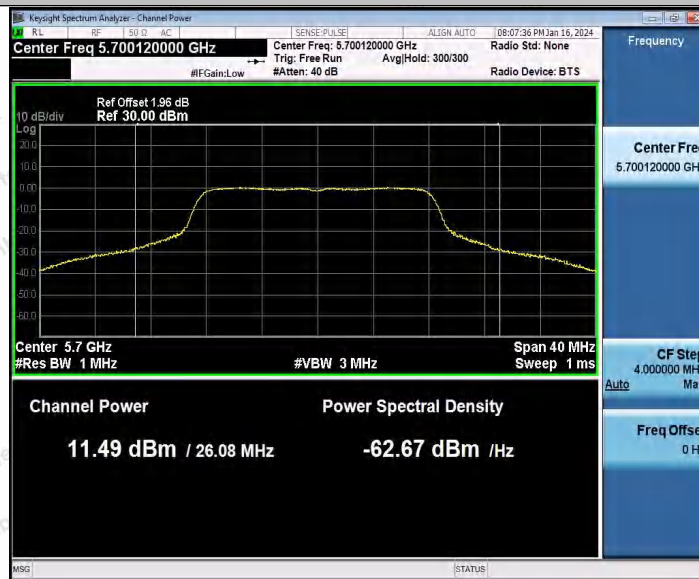
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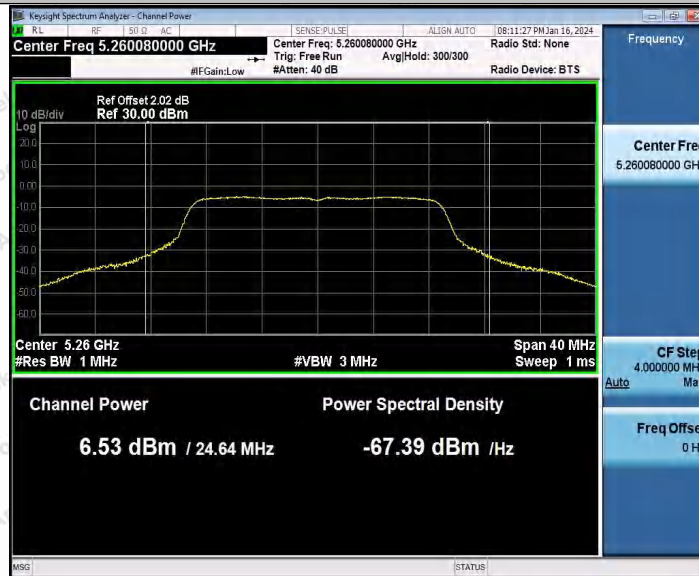
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802.11a_Ant1_5700



802.11n(HT20) SISO_Ant1_5260



802.11n(HT20) SISO_Ant1_5300

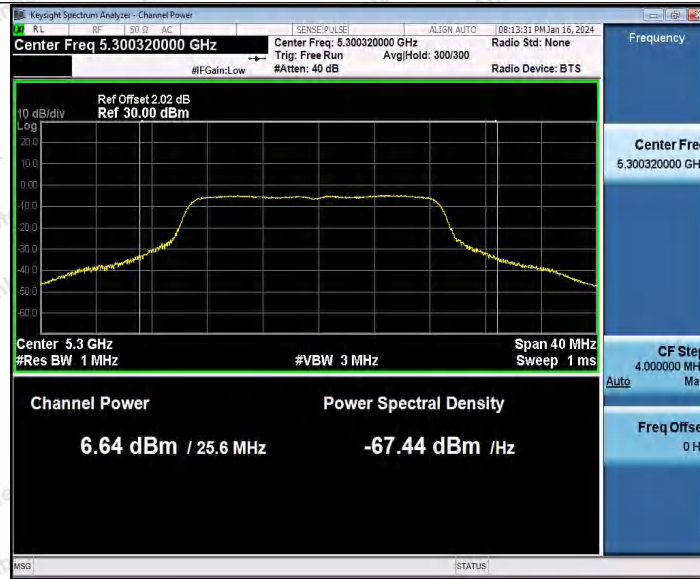
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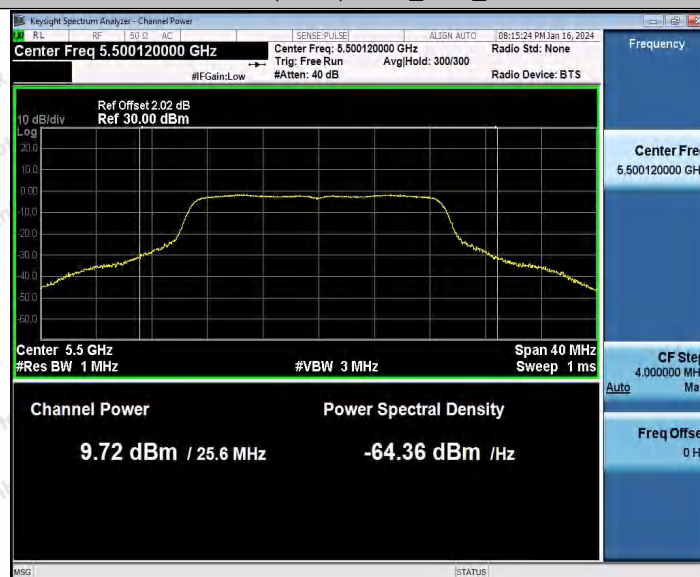




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802.11n(HT20) SISO_Ant1_5500



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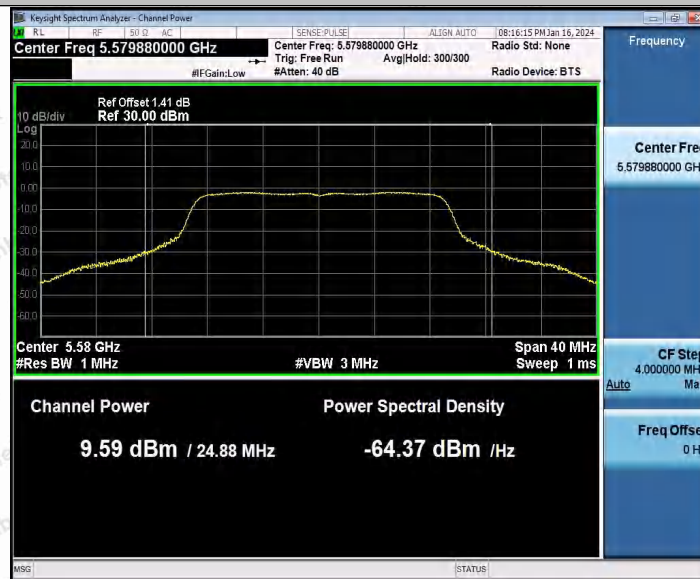
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802.11n(HT20) SISO_Ant1_5580



802.11n(HT20) SISO_Ant1_5700



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Appendix D: power spectral density

Test Result B1/2/3

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
802.11a	Ant1	5180	-1.11	≤11.00	PASS
		5200	-1.04	≤11.00	PASS
		5240	-0.18	≤11.00	PASS
		5260	-0.41	≤11.00	PASS
		5300	-0.06	≤11.00	PASS
		5320	0.06	≤11.00	PASS
		5500	-1.20	≤11.00	PASS
		5600	-0.37	≤11.00	PASS
		5700	0.93	≤11.00	PASS
802.11n(HT20) SISO	Ant1	5180	-1.41	≤11.00	PASS
		5200	-0.99	≤11.00	PASS
		5240	-0.52	≤11.00	PASS
		5260	-0.45	≤11.00	PASS
		5300	-0.74	≤11.00	PASS
		5320	-0.39	≤11.00	PASS
		5500	-1.65	≤11.00	PASS
		5600	-0.70	≤11.00	PASS
		5700	0.39	≤11.00	PASS

Note: 1.The Duty Cycle Factor and RBW Factor is compensated in the graph.

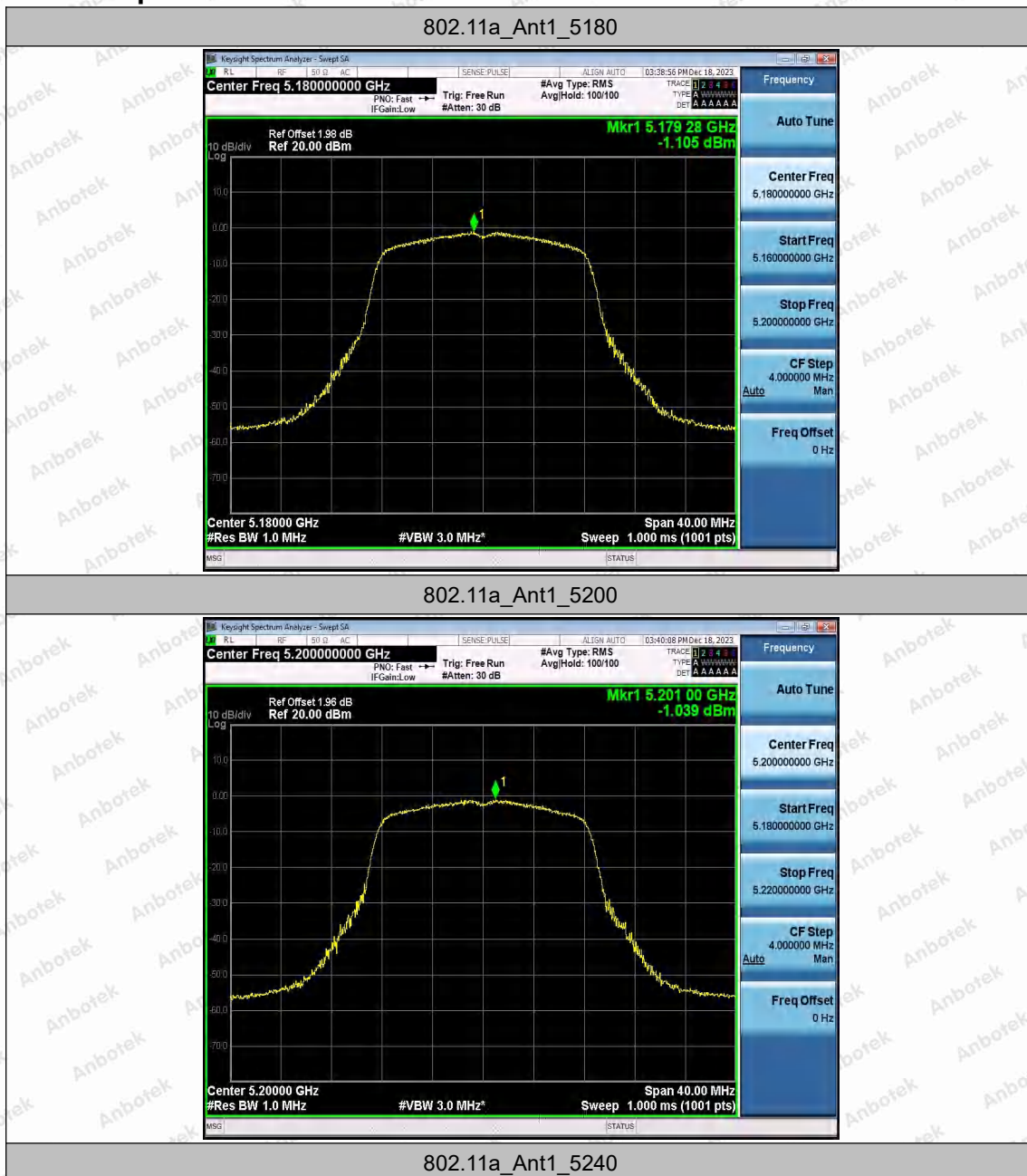
Test Result B4

TestMode	Antenna	Frequency[MHz]	Result [dBm/500KHz]	Limit[dBm/500KHz]	Verdict
802.11a	Ant1	5745	-1.97	≤30.00	PASS
		5785	-1.77	≤30.00	PASS
		5825	-2.00	≤30.00	PASS
802.11n(HT20) SISO	Ant1	5745	-2.73	≤30.00	PASS
		5785	-2.22	≤30.00	PASS
		5825	-1.93	≤30.00	PASS

Note: 1.The Duty Cycle Factor and RBW Factor is compensated in the graph.



Test Graphs B1/2/3



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802.11a_Ant1_5260



802.11a_Ant1_5300



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802.11a_Ant1_5320



802.11a_Ant1_5500



802.11a_Ant1_5600

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802.11a_Ant1_5700



802.11n(HT20) SISO_Ant1_5180



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802.11n(HT20) SISO_Ant1_5240



802.11n(HT20) SISO_Ant1_5260

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802.11n(HT20) SISO_Ant1_5300



802.11n(HT20) SISO_Ant1_5320



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Test Graphs B4

802.11a_Ant1_5745



802.11a_Ant1_5785



802.11a_Ant1_5825

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802.11n(HT20) SISO_Ant1_5745



802.11n(HT20) SISO_Ant1_5785



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