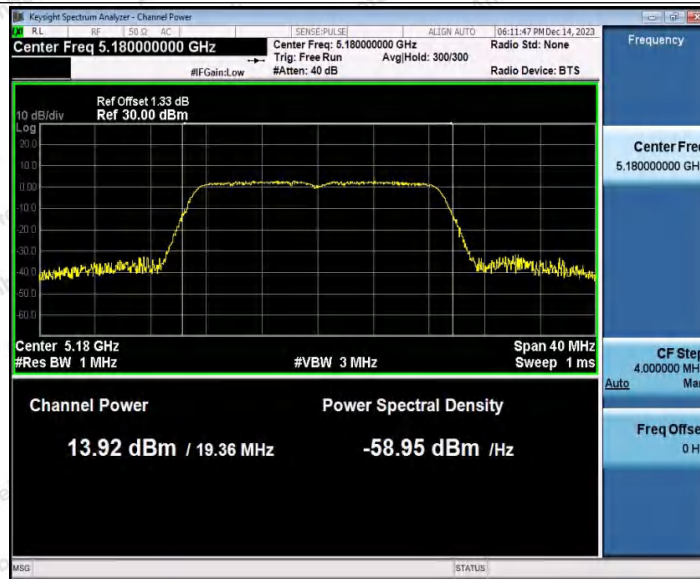
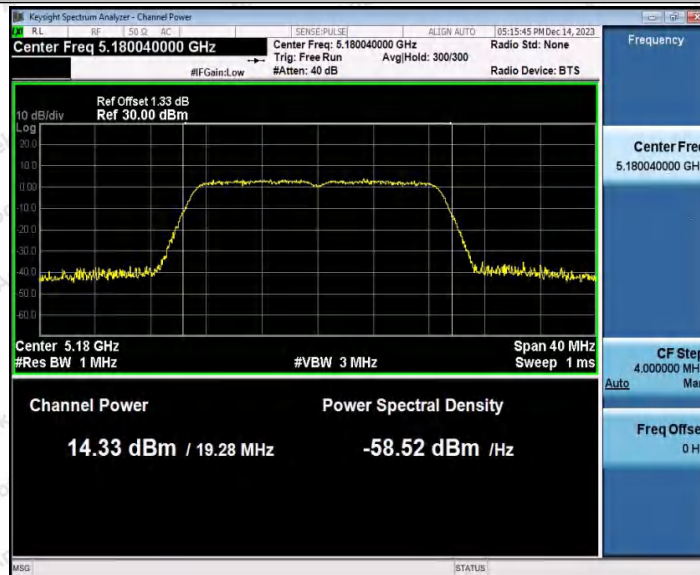
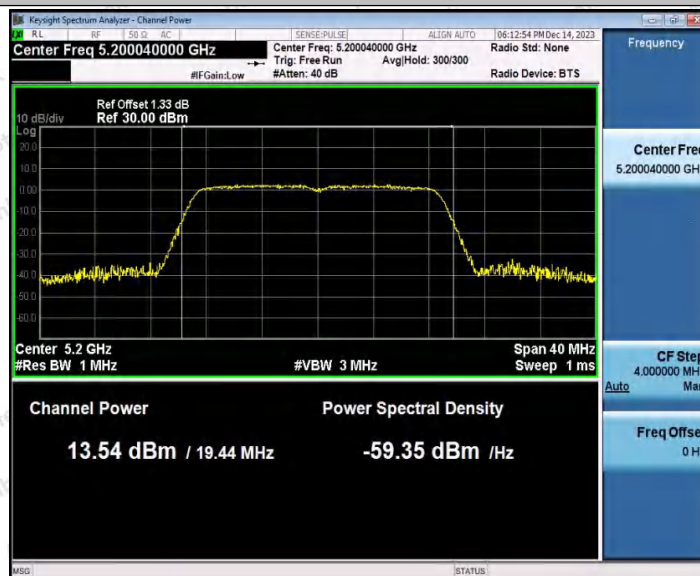




11N20SISO_Ant2_5180



11N20SISO_Ant1_5200



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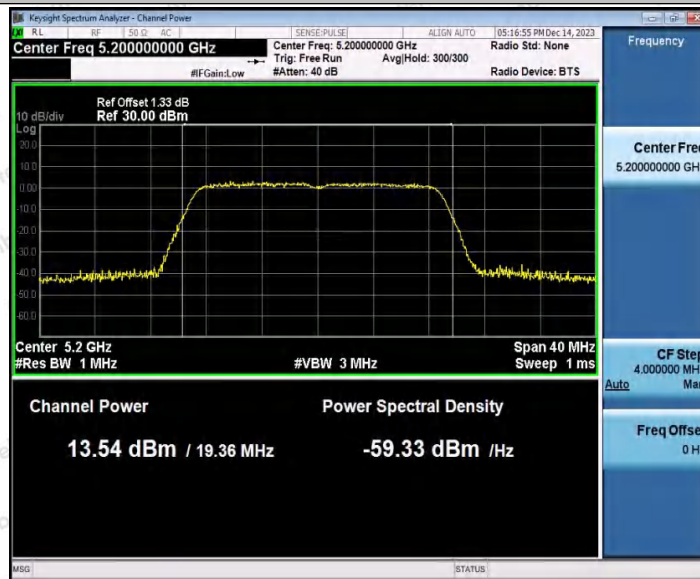
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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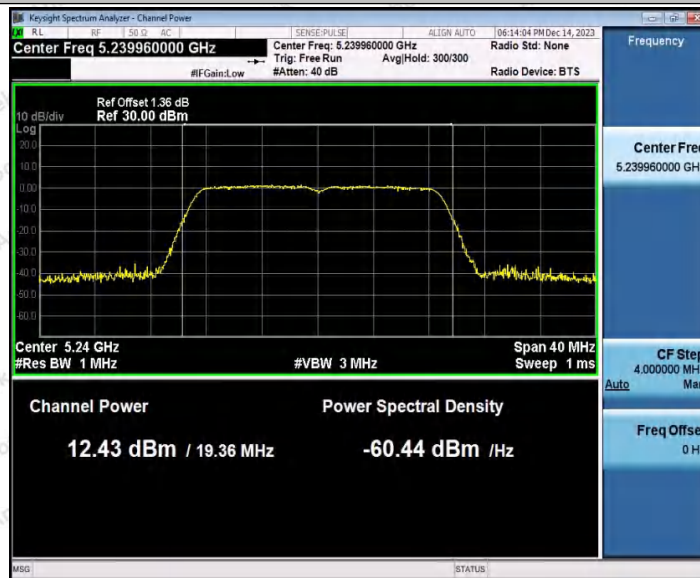
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11N20SISO_Ant2_5200



11N20SISO_Ant1_5240



11N20SISO_Ant2_5240

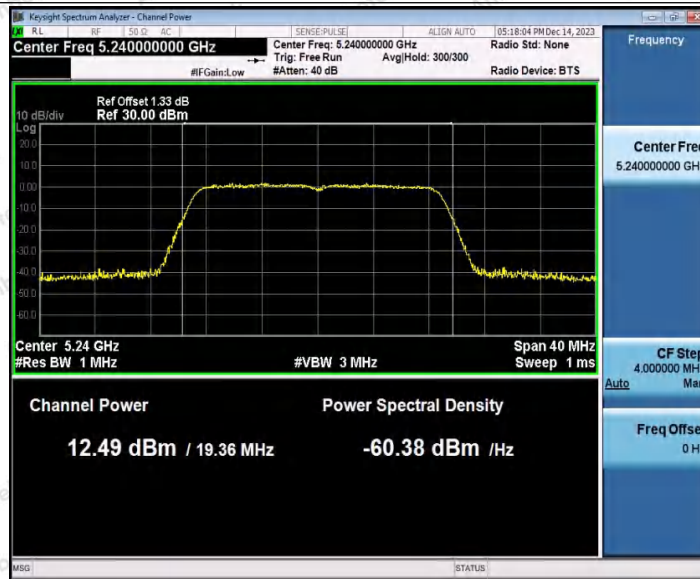
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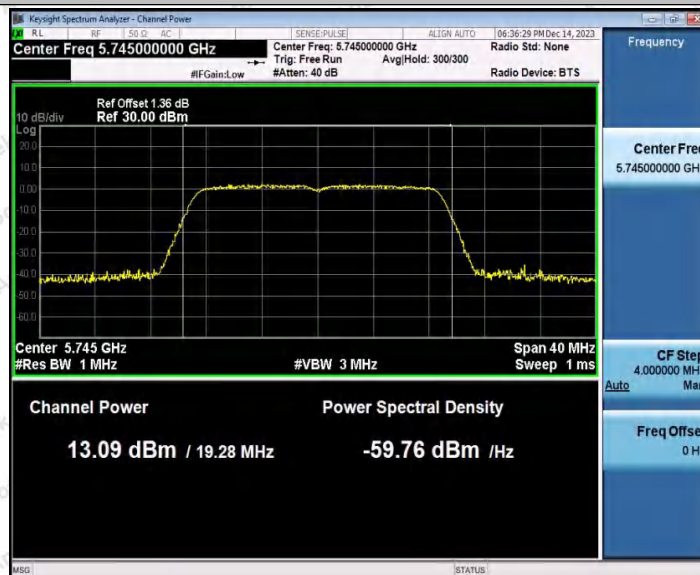


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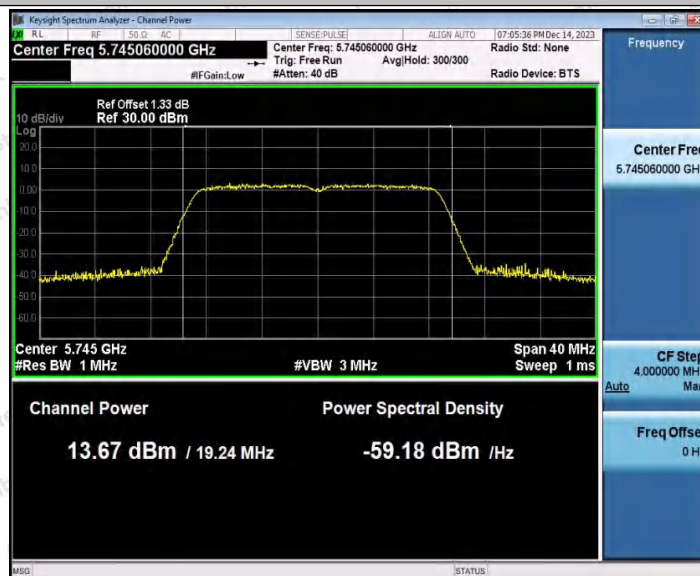




11N20SISO_Ant1_5745



11N20SISO_Ant2_5745



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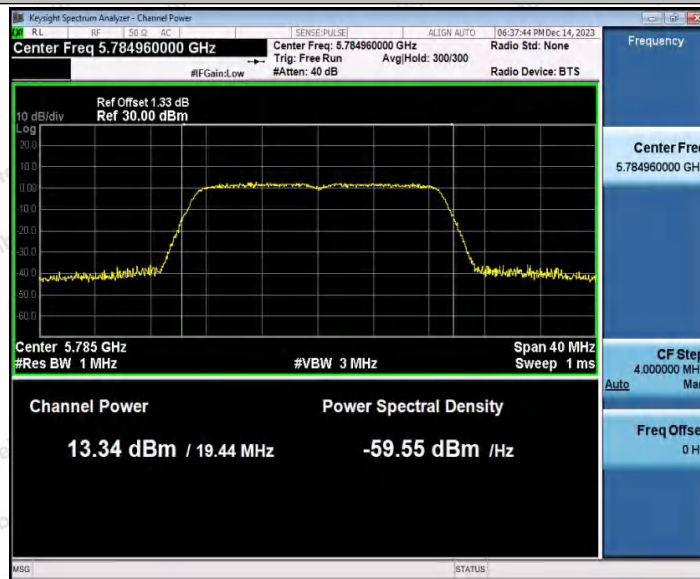
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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11N20SISO_Ant1_5785



11N20SISO_Ant2_5785



11N20SISO_Ant1_5825

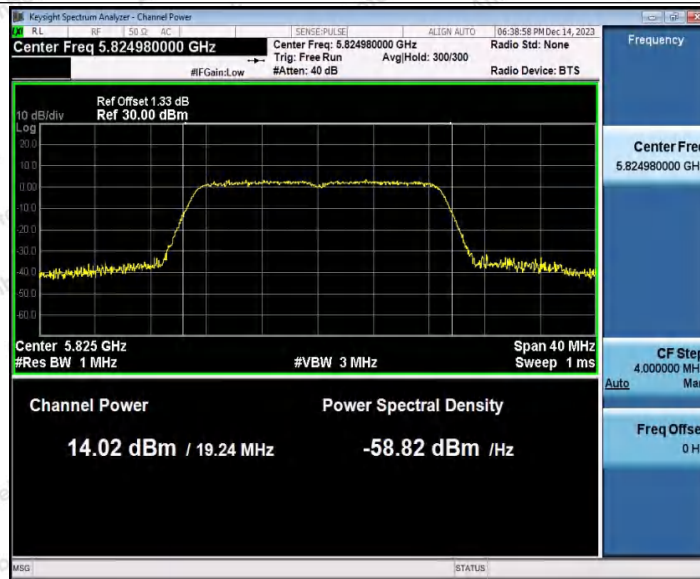
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

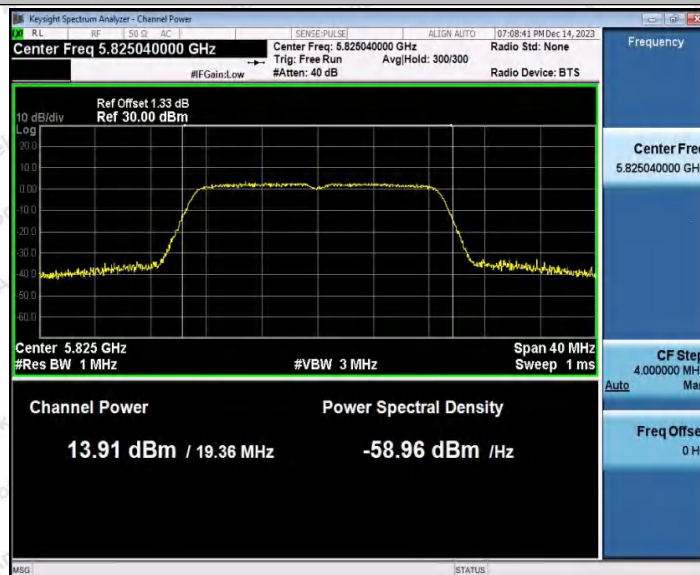


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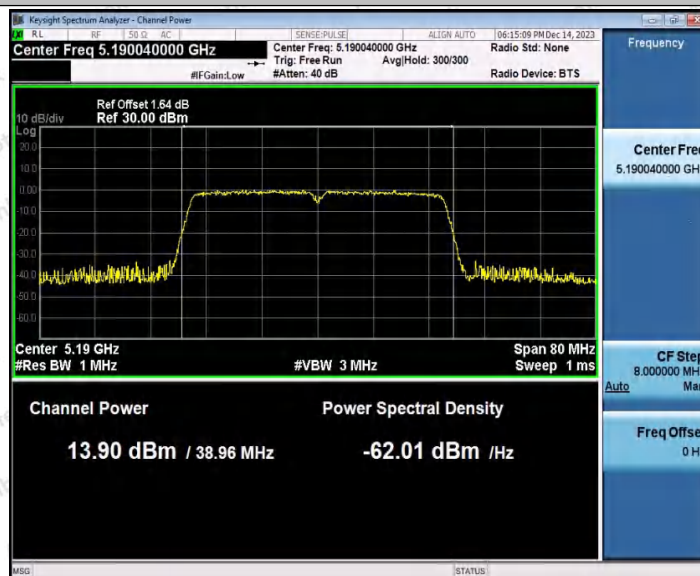




11N20SISO_Ant2_5825



11N40SISO_Ant1_5190



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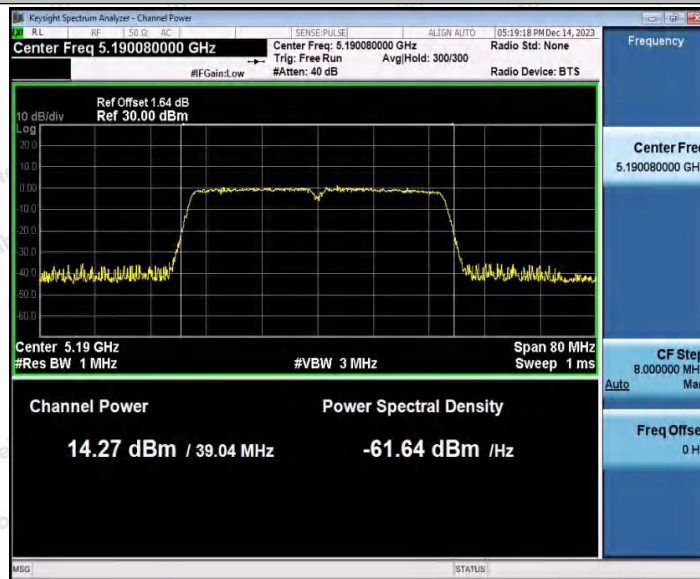
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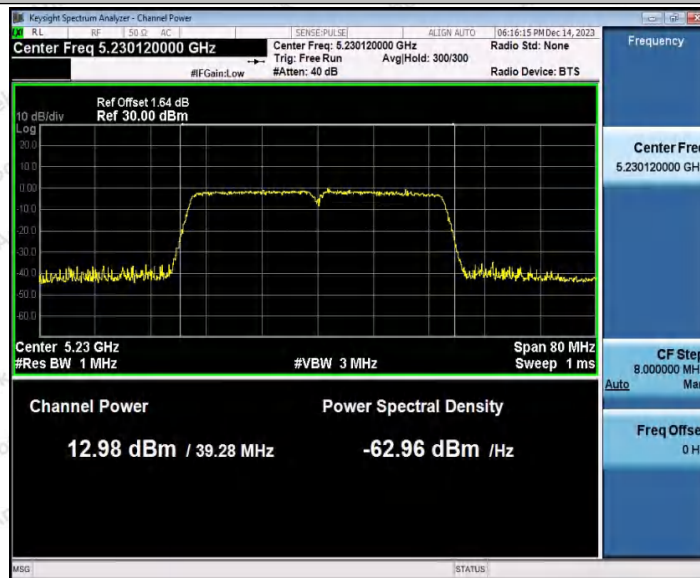
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11N40SISO_Ant2_5190



11N40SISO_Ant1_5230



11N40SISO_Ant2_5230

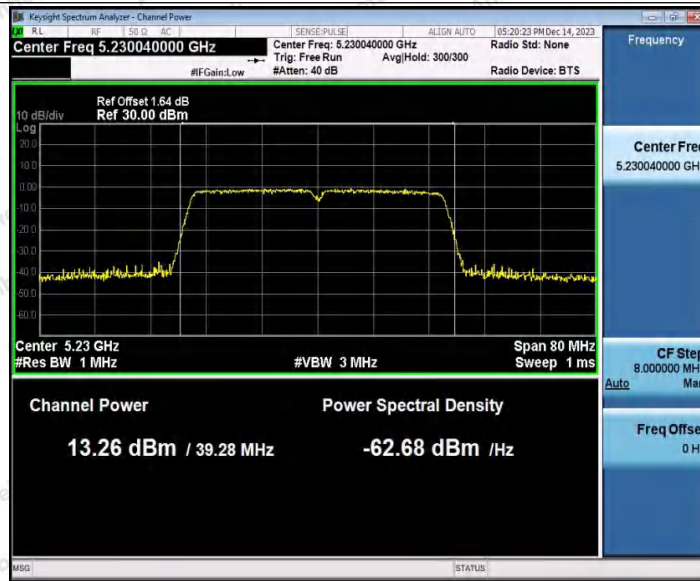
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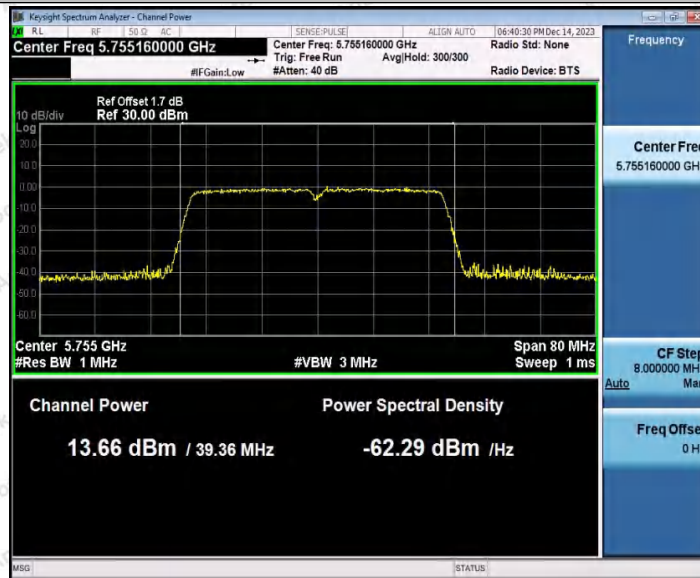


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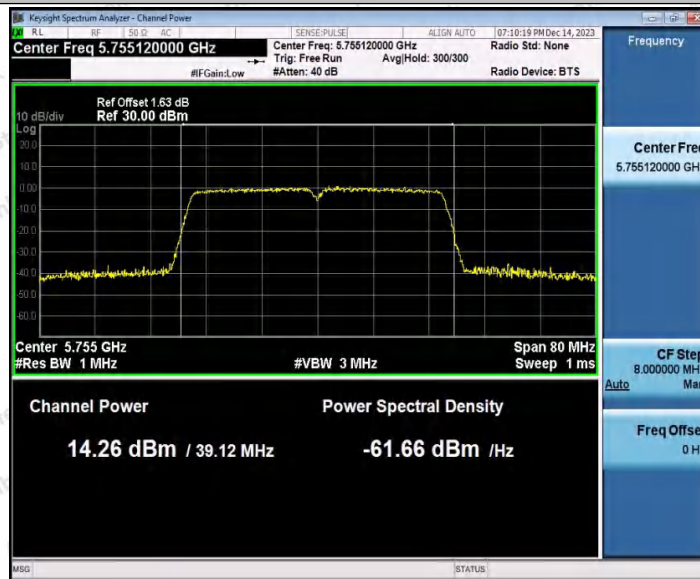




11N40SISO_Ant1_5755



11N40SISO_Ant2_5755



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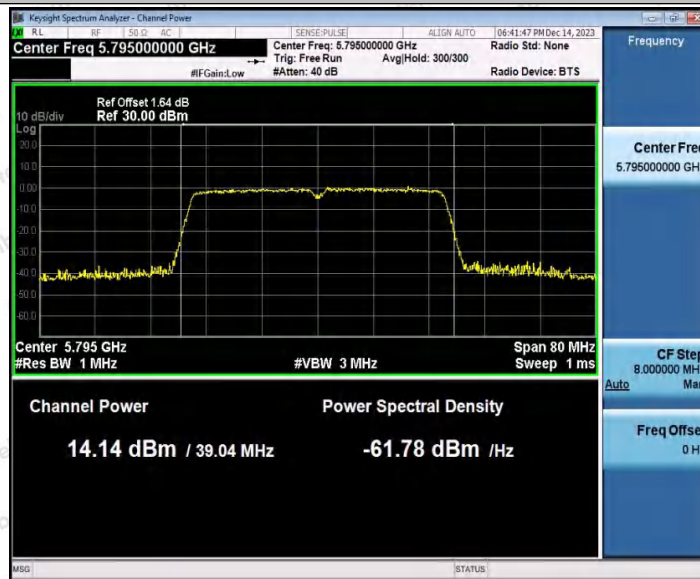
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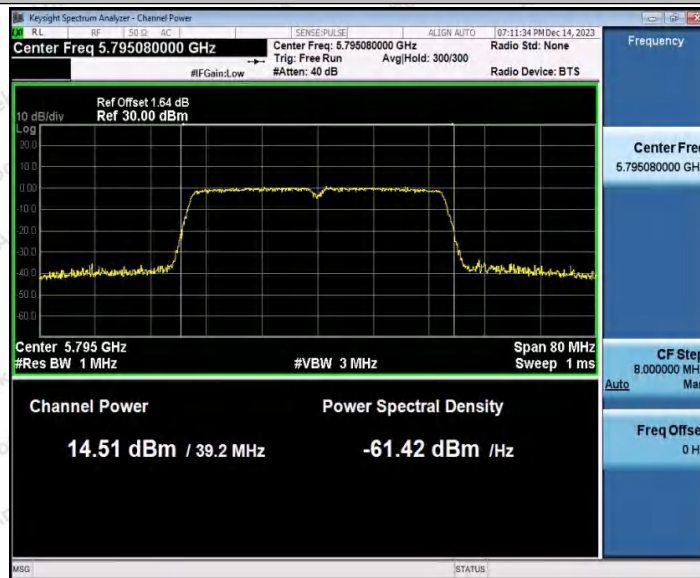
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11N40SISO_Ant1_5795



11N40SISO_Ant2_5795



11AC20SISO_Ant1_5180

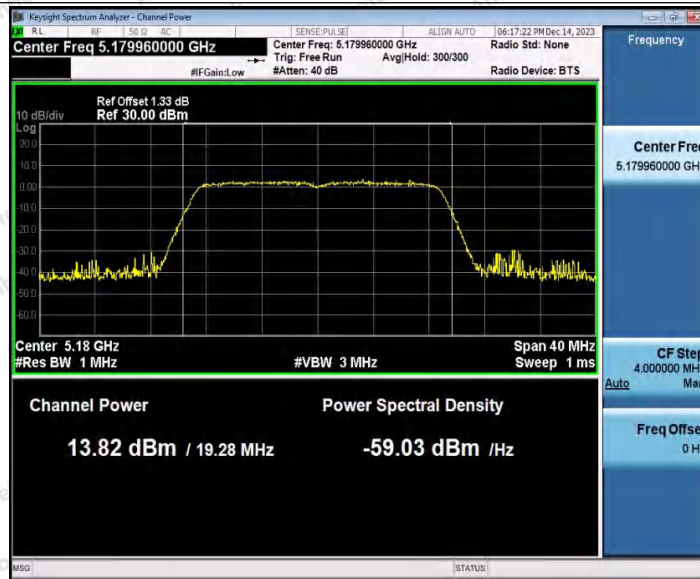
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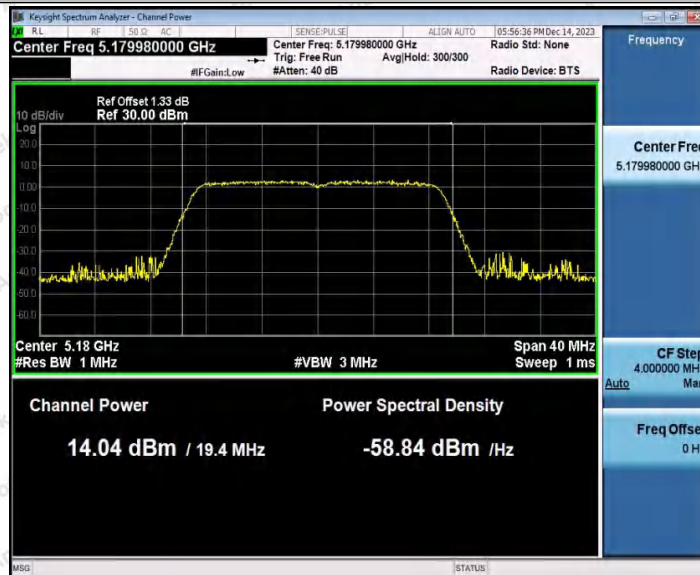


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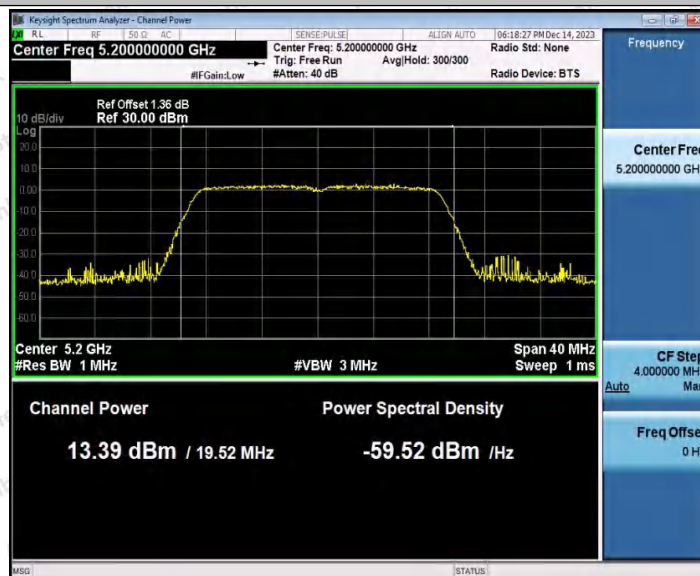




11AC20SISO_Ant2_5180



11AC20SISO_Ant1_5200



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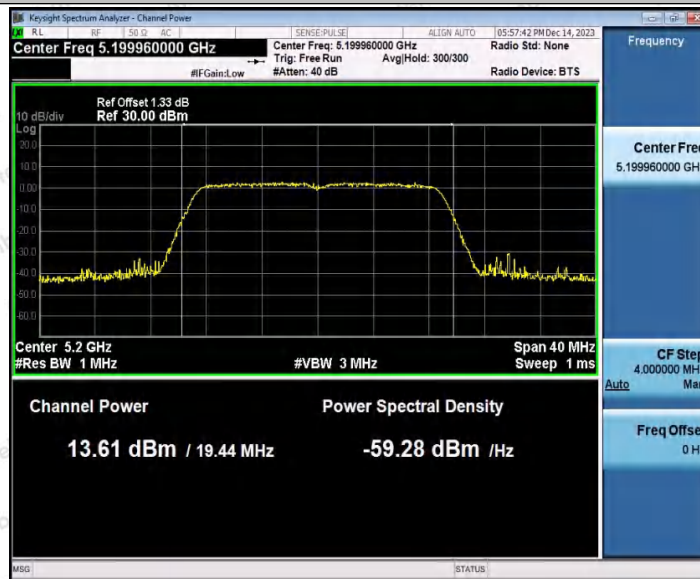
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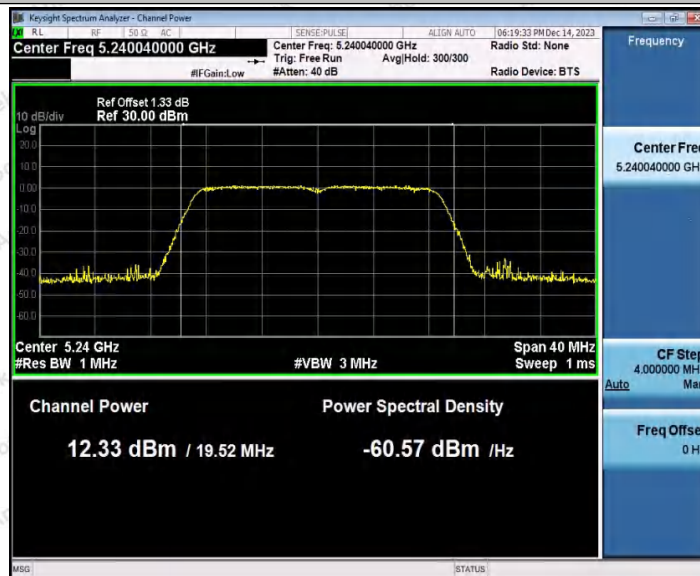
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11AC20SISO_Ant2_5200



11AC20SISO_Ant1_5240



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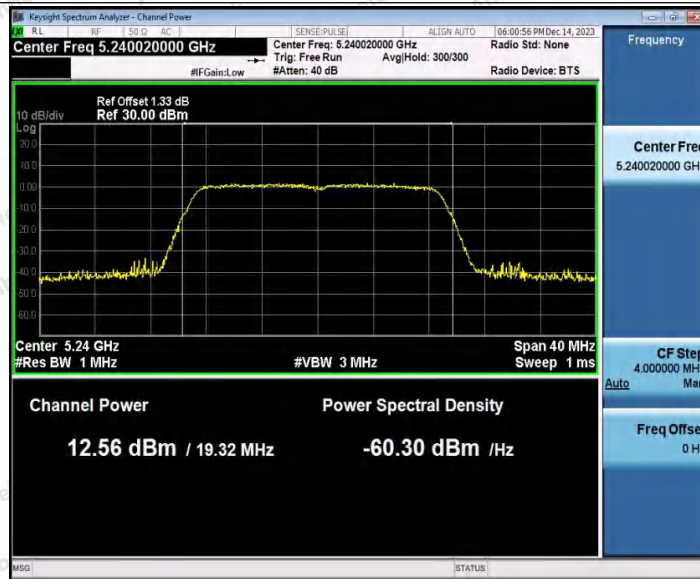
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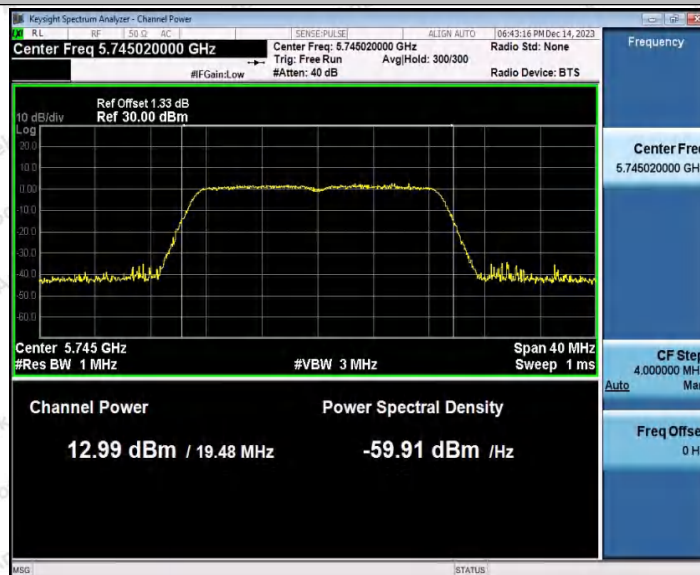


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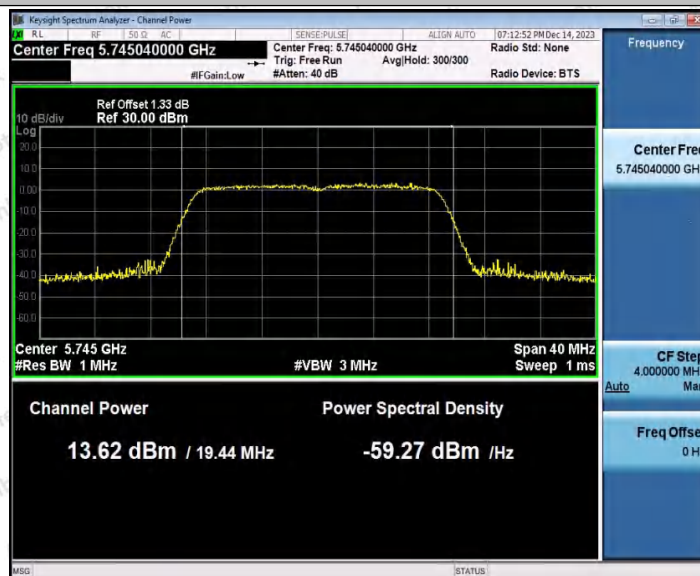




11AC20SISO_Ant1_5745



11AC20SISO_Ant2_5745

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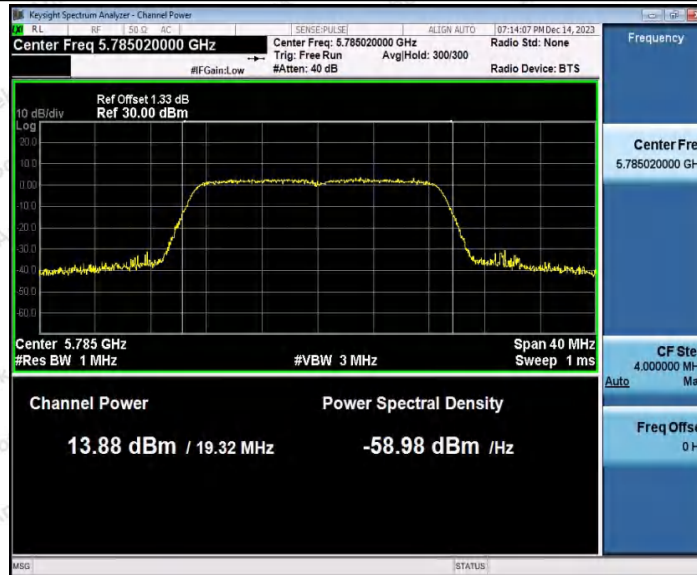
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11AC20SISO_Ant1_5785



11AC20SISO_Ant2_5785



11AC20SISO_Ant1_5825

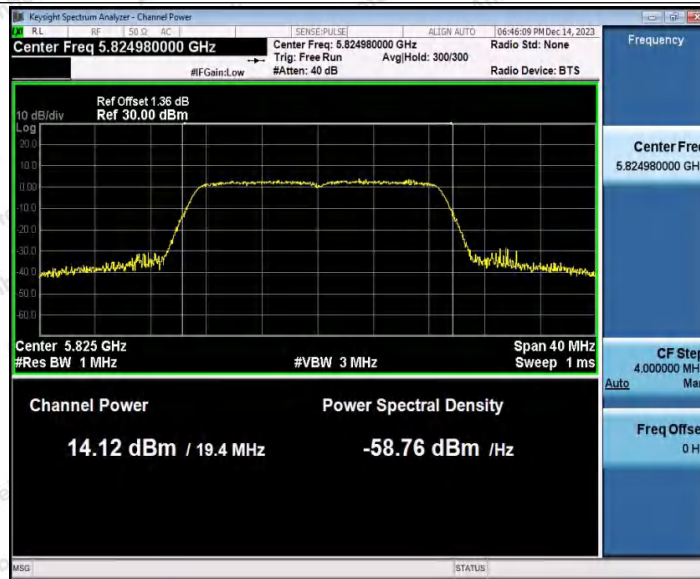
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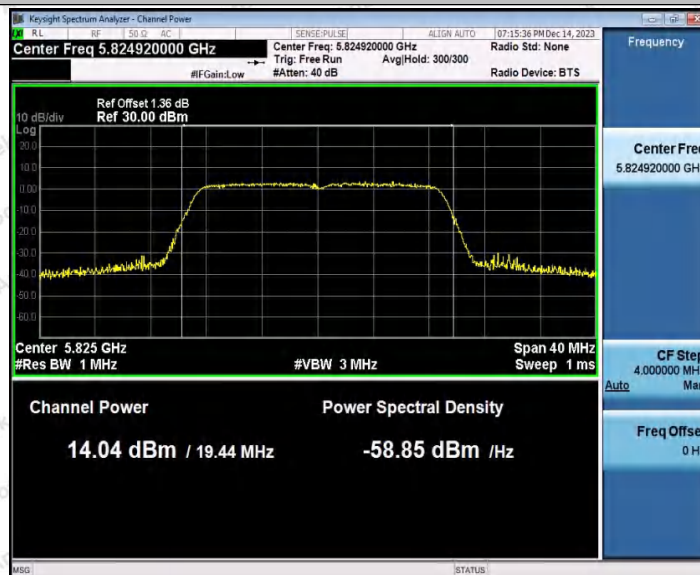


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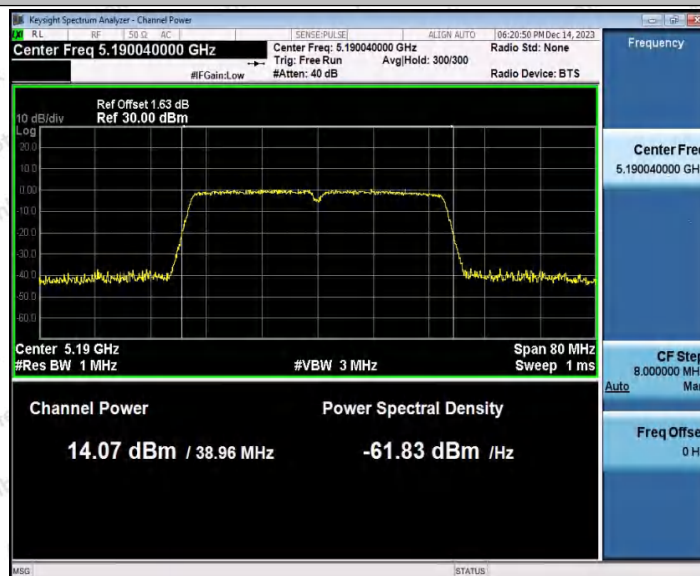




11AC20SISO_Ant2_5825



11AC40SISO_Ant1_5190



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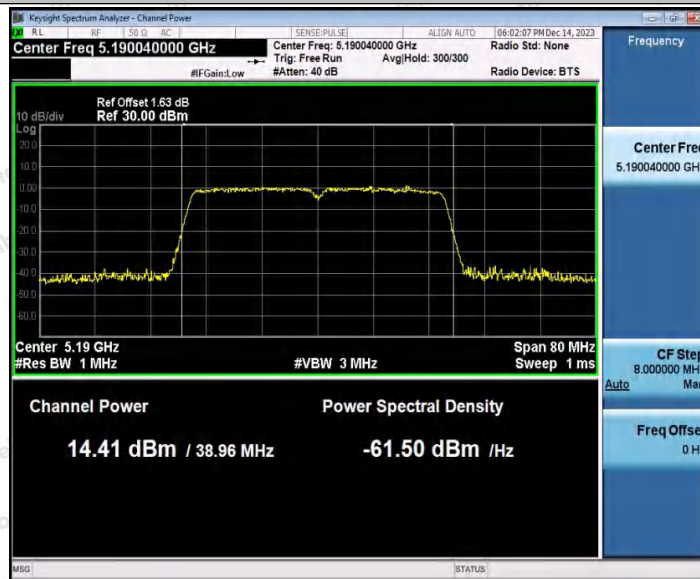
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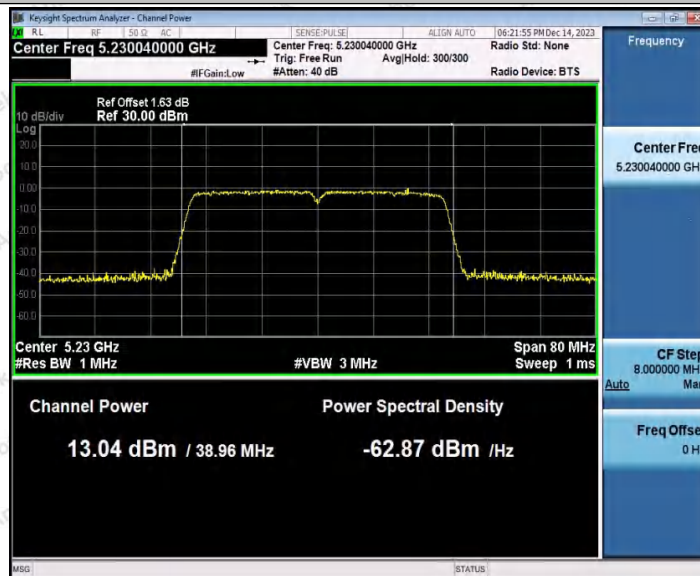
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11AC40SISO_Ant2_5190



11AC40SISO_Ant1_5230



11AC40SISO_Ant2_5230

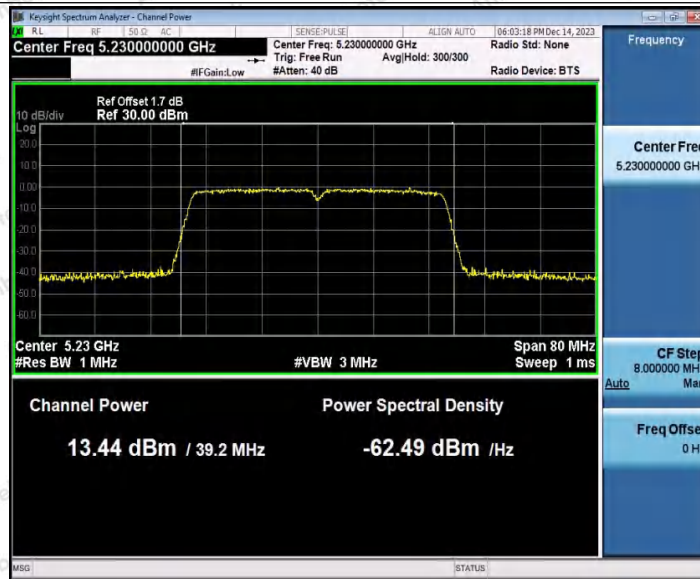
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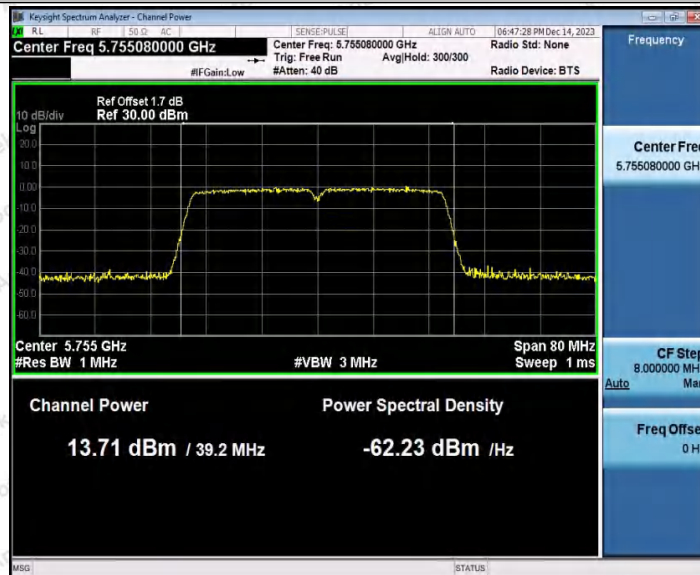


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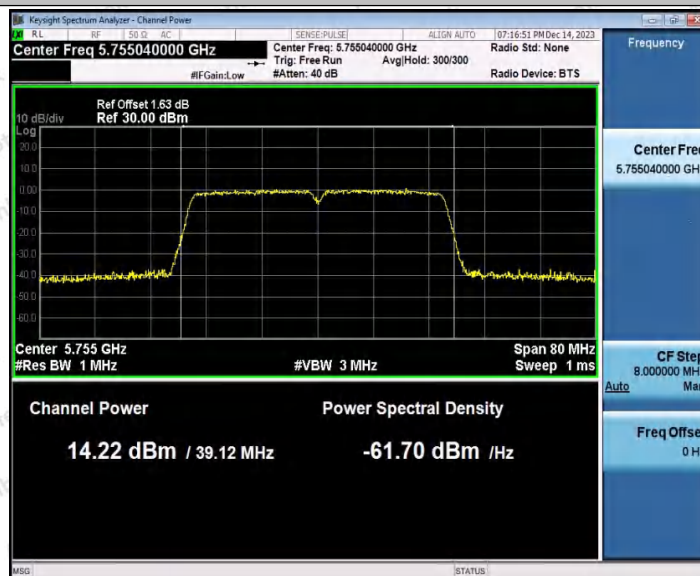




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11AC40SISO_Ant2_5755



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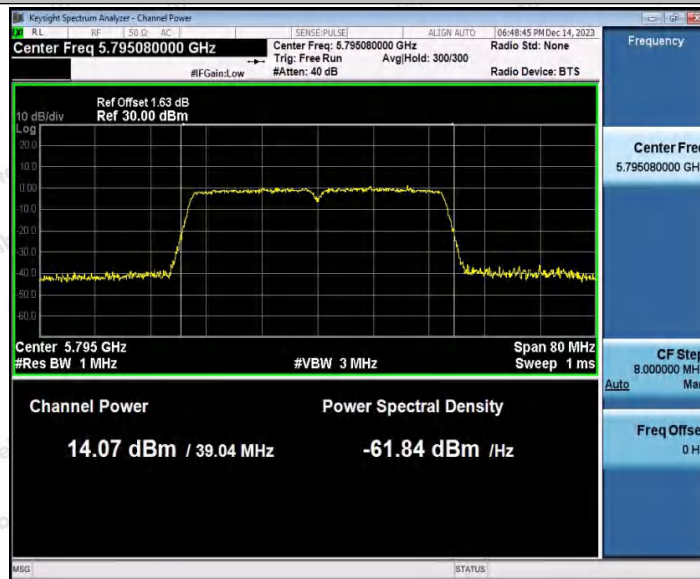
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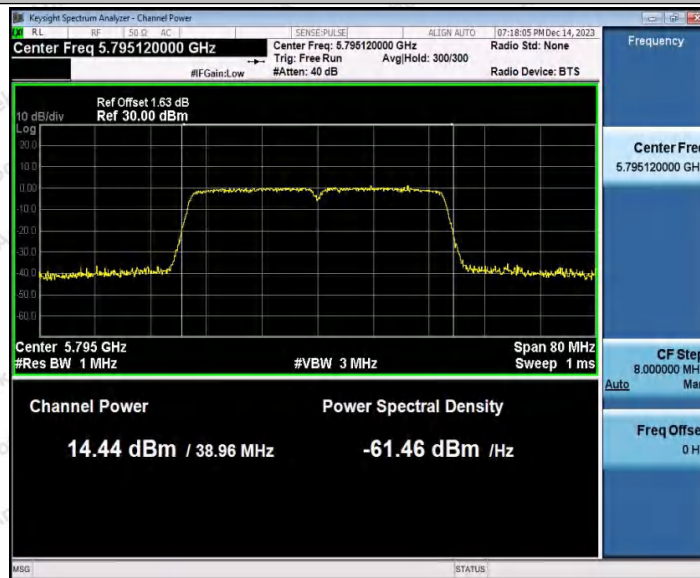
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11AC40SISO_Ant1_5795



11AC40SISO_Ant2_5795



11AC80SISO_Ant1_5210

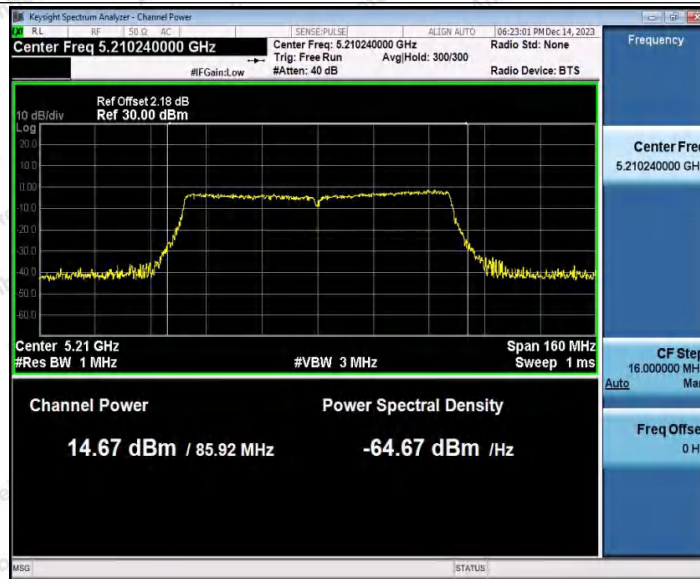
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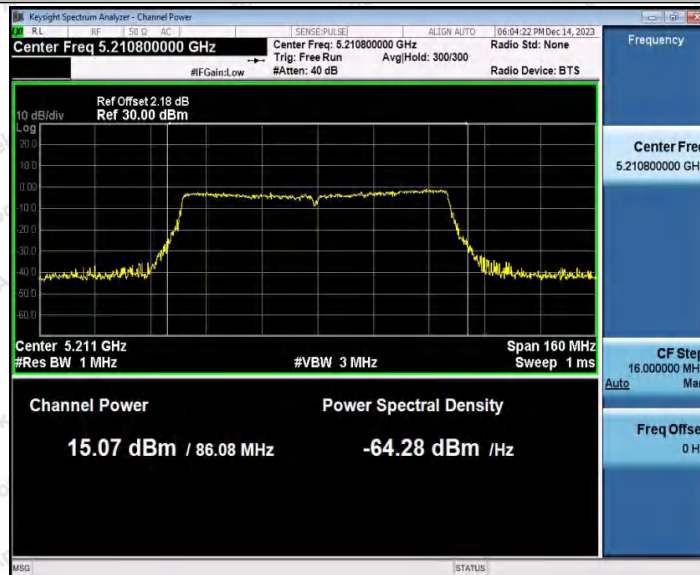


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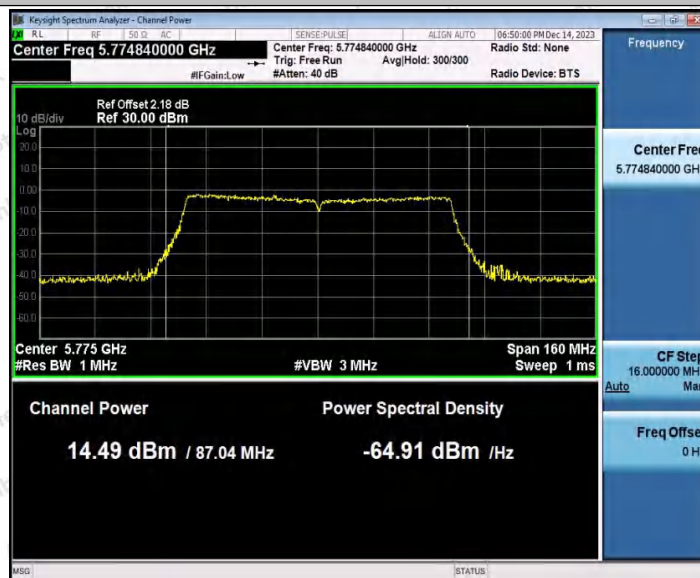




11AC80SISO_Ant2_5210



11AC80SISO_Ant1_5775



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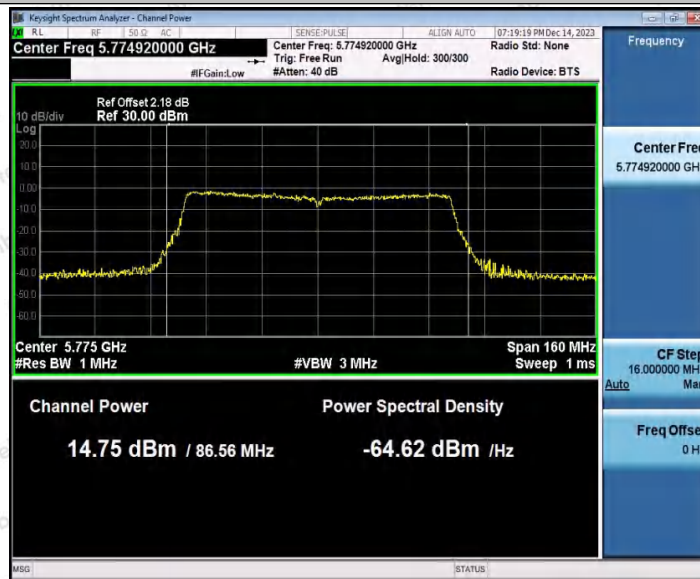
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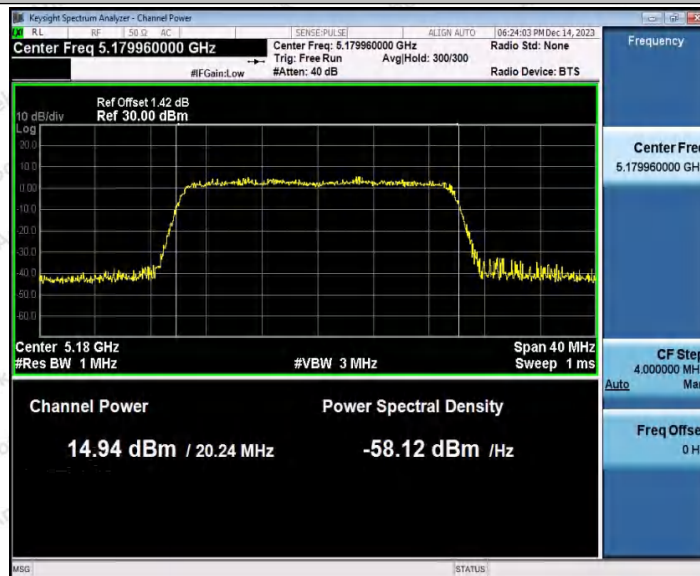
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11AC80SISO_Ant2_5775



11AX20SISO_Ant1_5180



11AX20SISO_Ant2_5180

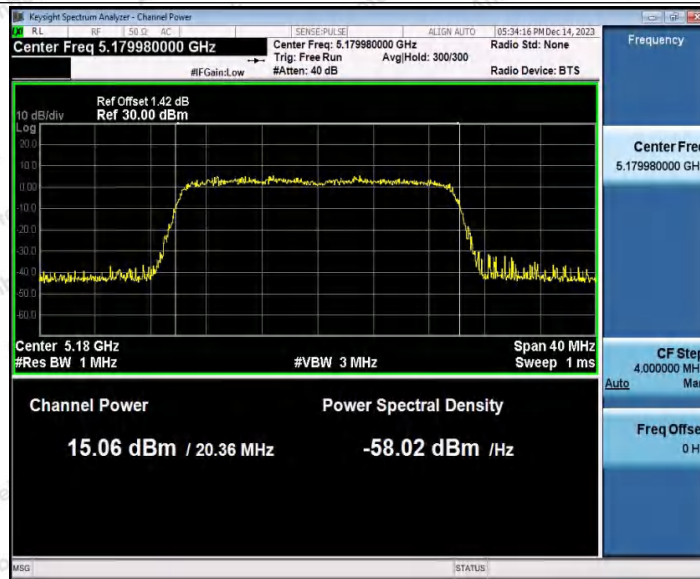
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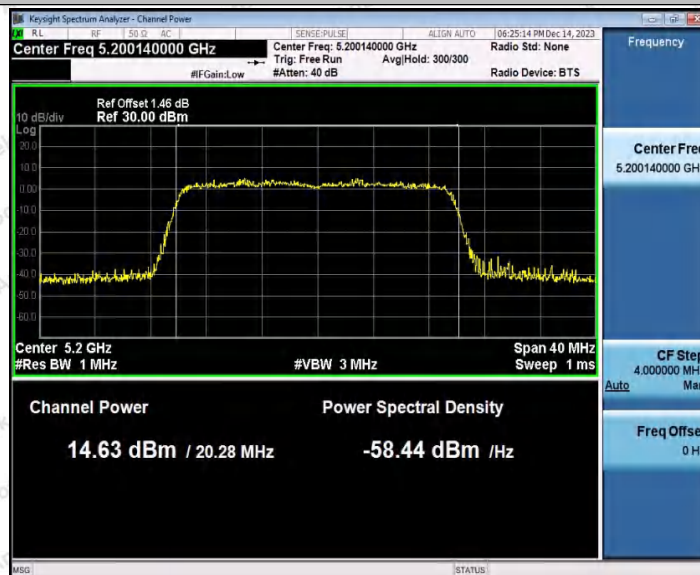


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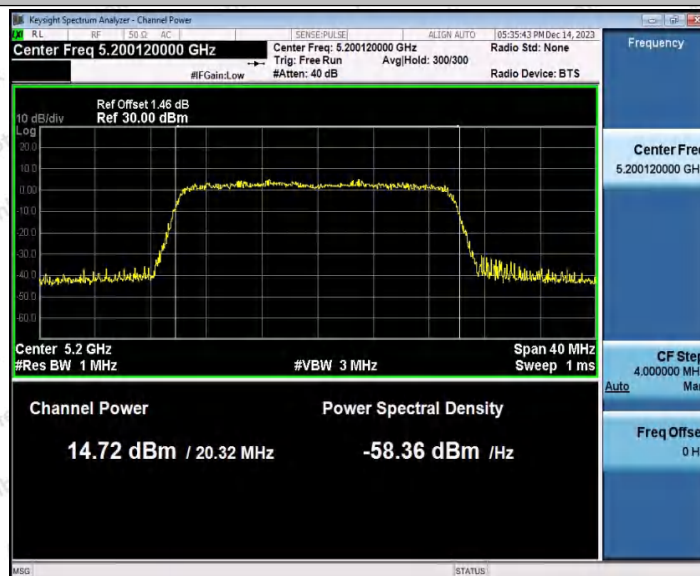




11AX20SISO_Ant1_5200



11AX20SISO_Ant2_5200

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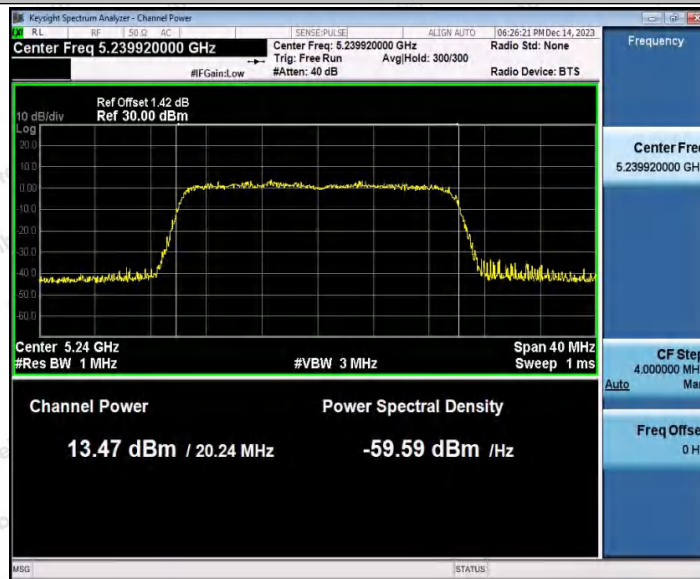
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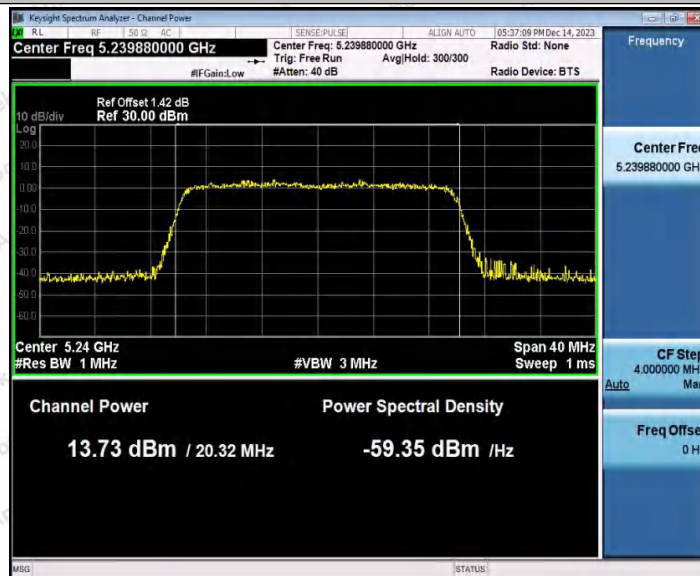
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11AX20SISO_Ant1_5240



11AX20SISO_Ant2_5240



11AX20SISO_Ant1_5745

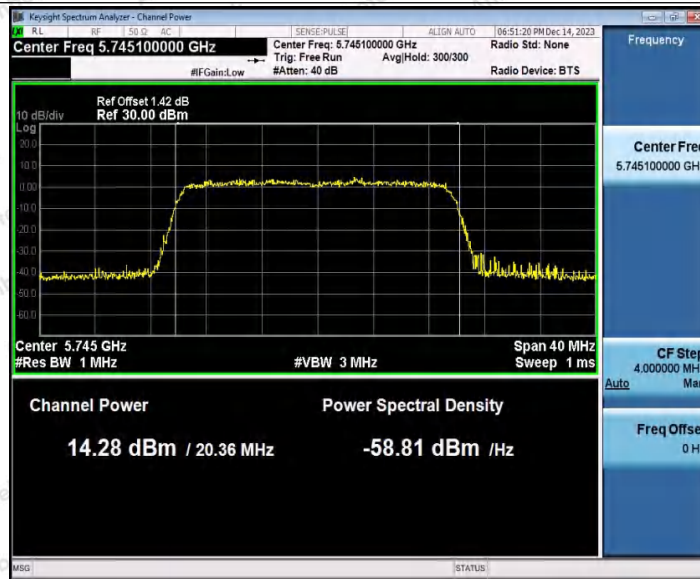
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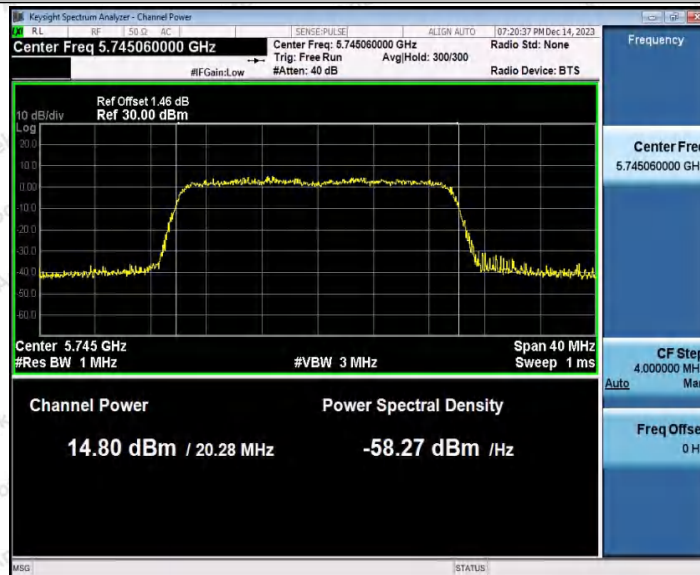


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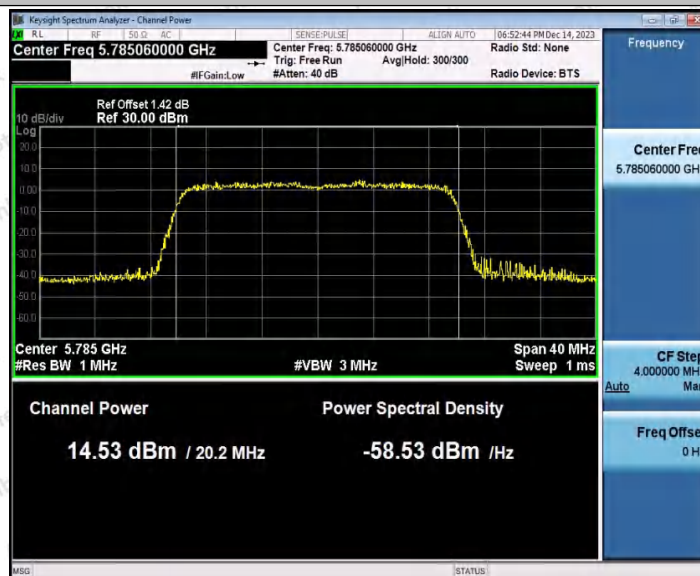




11AX20ISO_Ant2_5745



11AX20ISO_Ant1_5785



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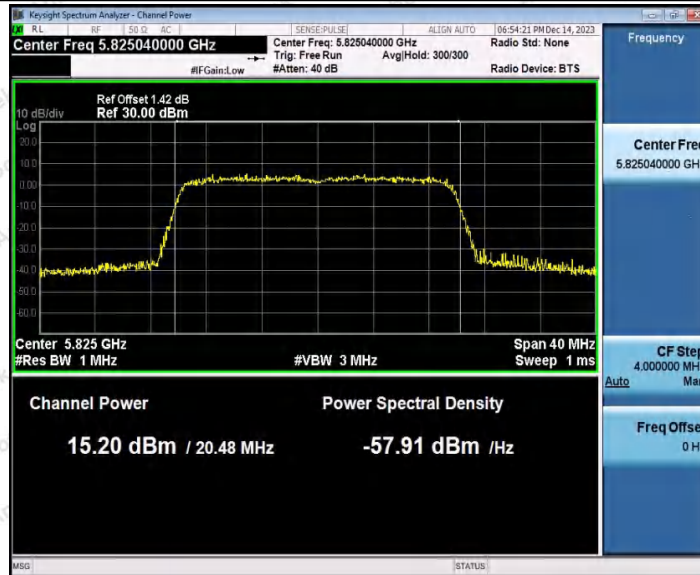
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11AX20SISO_Ant2_5785



11AX20SISO_Ant1_5825



11AX20SISO_Ant2_5825

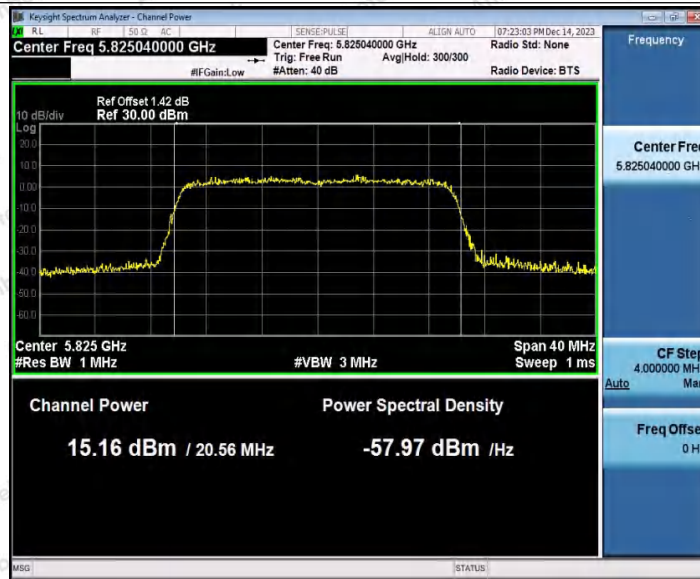
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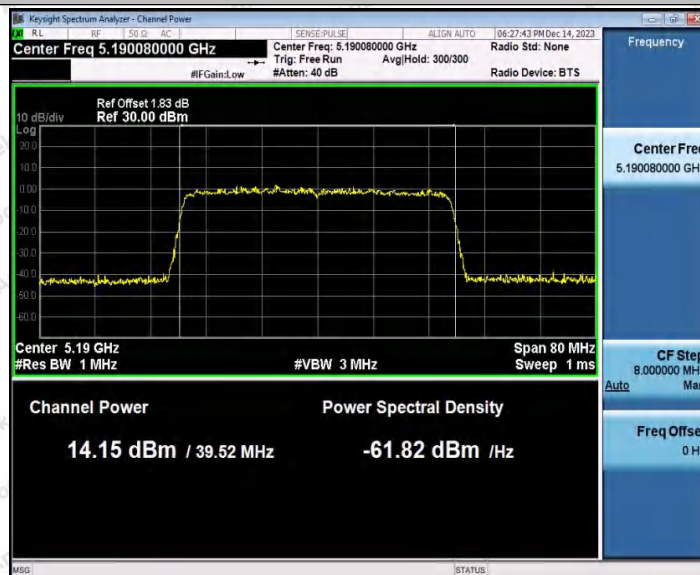


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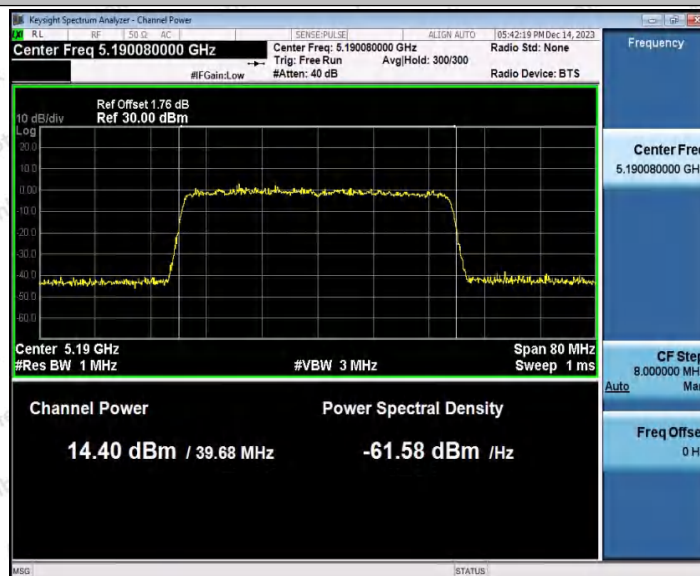




11AX40SISO_Ant1_5190



11AX40SISO_Ant2_5190



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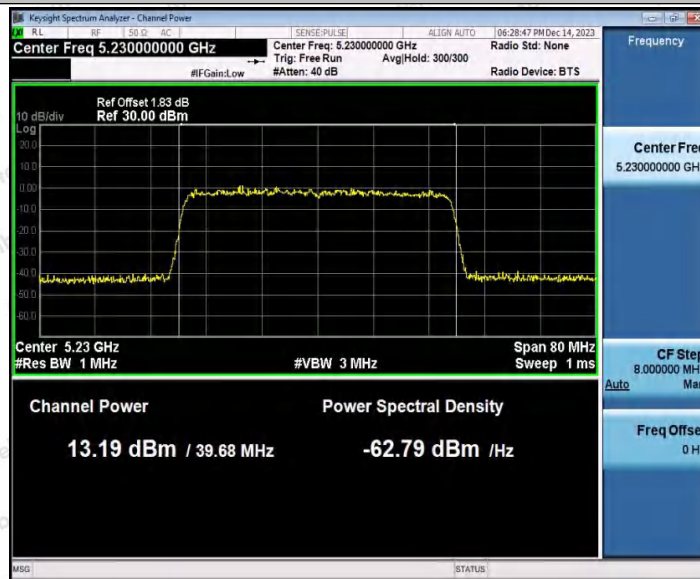
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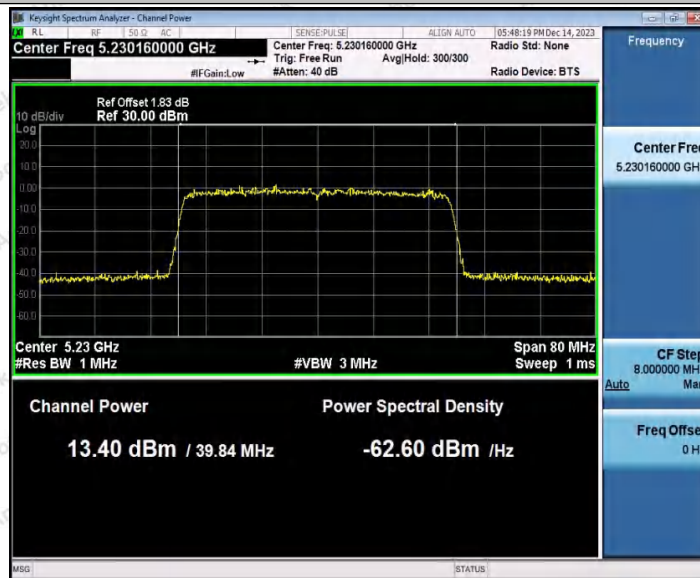
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11AX40SISO_Ant1_5230



11AX40SISO_Ant2_5230



11AX40SISO_Ant1_5755

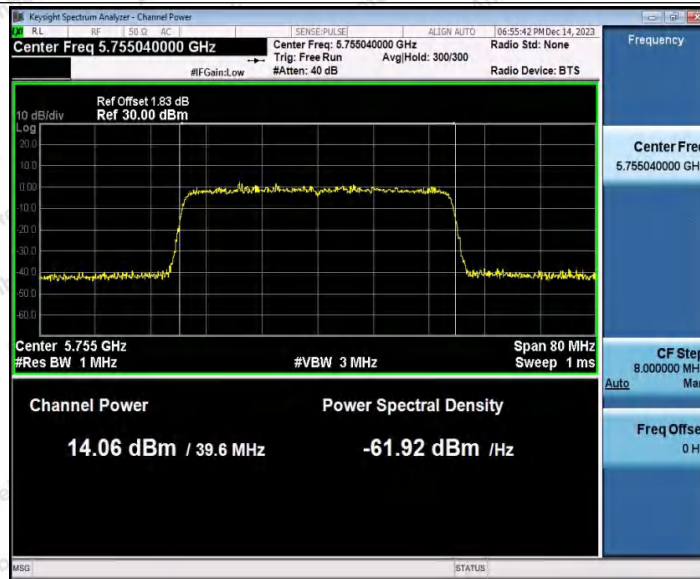
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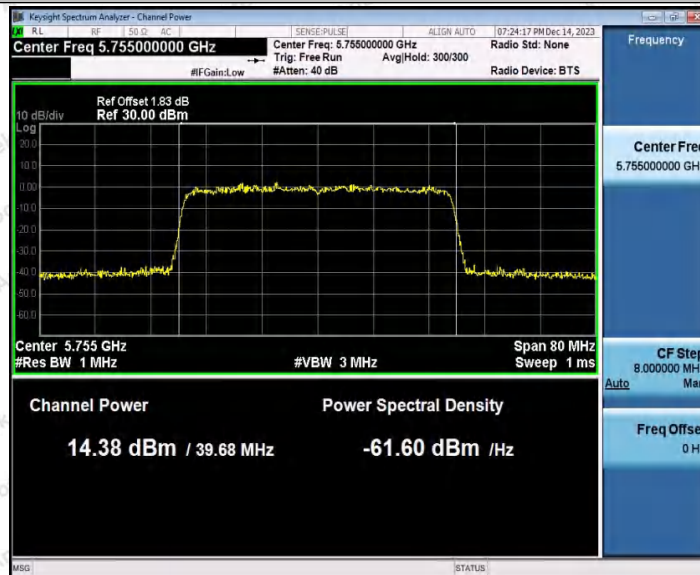


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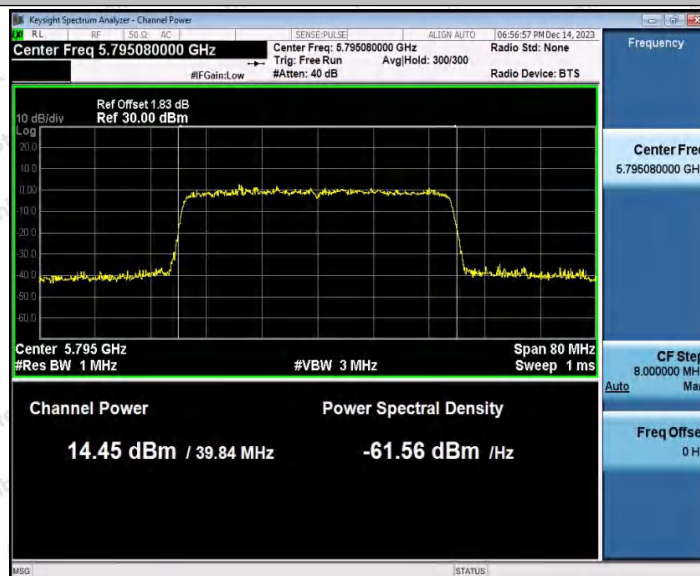




11AX40SISO_Ant2_5755



11AX40SISO_Ant1_5795



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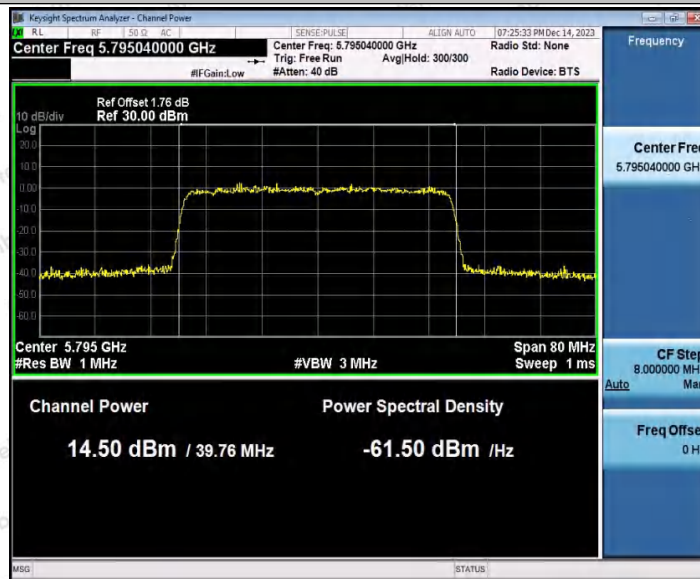
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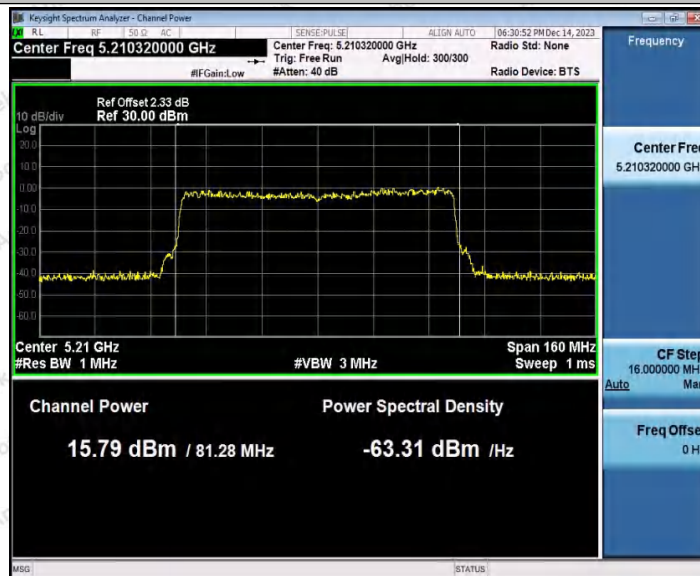
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11AX40SISO_Ant2_5795



11AX80SISO_Ant1_5210



11AX80SISO_Ant2_5210

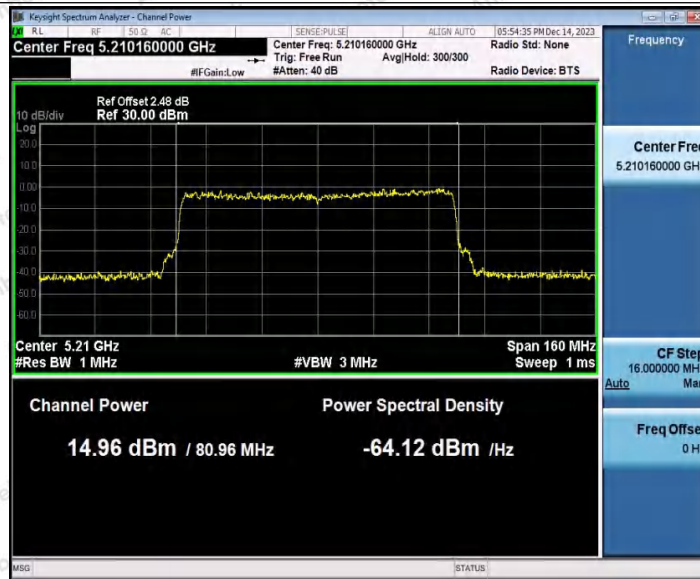
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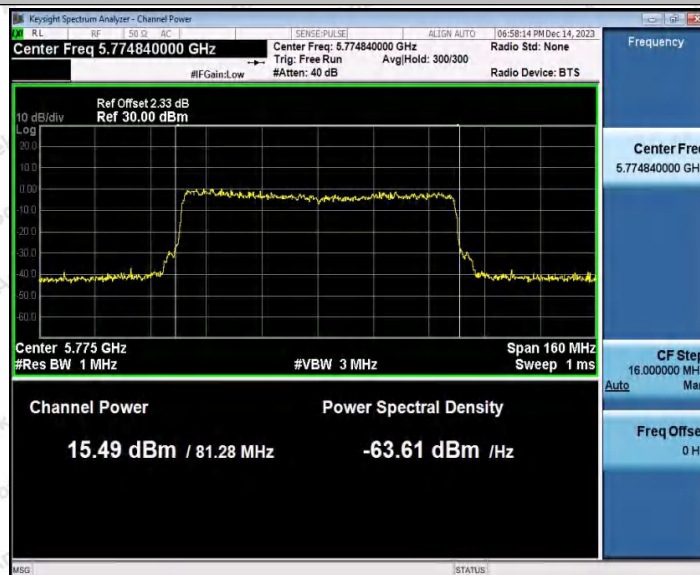


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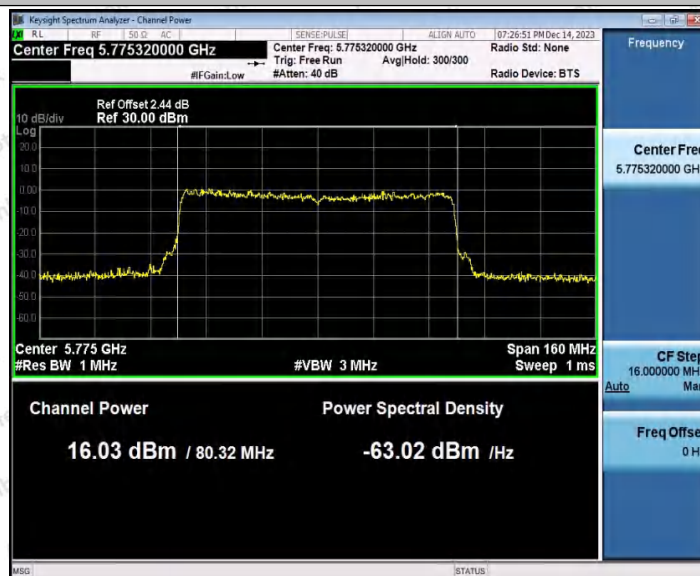




11AX80SISO_Ant1_5775



11AX80SISO_Ant2_5775



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Appendix D: Maximum power spectral density

Test Result B1

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-2.35	≤11.00	PASS
	Ant2	5180	-2.12	≤11.00	PASS
	Ant1	5200	-2.55	≤11.00	PASS
	Ant2	5200	-2.45	≤11.00	PASS
	Ant1	5240	-3.77	≤11.00	PASS
	Ant2	5240	-3.54	≤11.00	PASS
11N20SISO	Ant1	5180	-2.72	≤11.00	PASS
	Ant2	5180	-2.09	≤11.00	PASS
	Ant1	5200	-3.06	≤11.00	PASS
	Ant2	5200	-2.95	≤11.00	PASS
	Ant1	5240	-4.27	≤11.00	PASS
	Ant2	5240	-3.61	≤11.00	PASS
11N40SISO	Ant1	5190	-5.99	≤11.00	PASS
	Ant2	5190	-5.46	≤11.00	PASS
	Ant1	5230	-6.41	≤11.00	PASS
	Ant2	5230	-6.5	≤11.00	PASS
11AC20SISO	Ant1	5180	-2.52	≤11.00	PASS
	Ant2	5180	-2.51	≤11.00	PASS
	Ant1	5200	-2.79	≤11.00	PASS
	Ant2	5200	-2.91	≤11.00	PASS
	Ant1	5240	-4.25	≤11.00	PASS
	Ant2	5240	-3.72	≤11.00	PASS
11AC40SISO	Ant1	5190	-5.39	≤11.00	PASS
	Ant2	5190	-5.62	≤11.00	PASS
	Ant1	5230	-6.75	≤11.00	PASS
	Ant2	5230	-6.06	≤11.00	PASS
11AC80SISO	Ant1	5210	-7.82	≤11.00	PASS
	Ant2	5210	-7.32	≤11.00	PASS
11AX20SISO	Ant1	5180	-2.74	≤11.00	PASS
	Ant2	5180	-2.64	≤11.00	PASS
	Ant1	5200	-3.23	≤11.00	PASS
	Ant2	5200	-3.13	≤11.00	PASS
	Ant1	5240	-4.41	≤11.00	PASS
	Ant2	5240	-4.14	≤11.00	PASS
11AX40SISO	Ant1	5190	-6.71	≤11.00	PASS
	Ant2	5190	-6.51	≤11.00	PASS
	Ant1	5230	-7.98	≤11.00	PASS
	Ant2	5230	-7.7	≤11.00	PASS

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11AX80SISO	Ant1	5210	-7.44	≤11.00	PASS
	Ant2	5210	-8.17	≤11.00	PASS

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

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MIMO:

Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Total [dBm/MHz]	Limit[dBm/MHz]	Verdict
11N20MIMO	Ant1	5180	-2.72	0.62	≤8.81	PASS
	Ant2	5180	-2.09			
	Ant1	5200	-3.06	0.01		
	Ant2	5200	-2.95			
	Ant1	5240	-4.27	-0.92		
	Ant2	5240	-3.61			
11N40MIMO	Ant1	5190	-5.99	-2.71	≤8.81	PASS
	Ant2	5190	-5.46			
	Ant1	5230	-6.41	-3.44		
	Ant2	5230	-6.5			
11AC20MIMO	Ant1	5180	-2.52	0.50	≤8.81	PASS
	Ant2	5180	-2.51			
	Ant1	5200	-2.79	0.16		
	Ant2	5200	-2.91			
	Ant1	5240	-4.25	-0.97		
	Ant2	5240	-3.72			
11AC40MIMO	Ant1	5190	-5.39	-2.49	≤8.81	PASS
	Ant2	5190	-5.62			
	Ant1	5230	-6.75	-3.38		
	Ant2	5230	-6.06			
11AC80MIMO	Ant1	5210	-7.82	-4.55	≤8.81	PASS
	Ant2	5210	-7.32			
11AX20MIMO	Ant1	5180	-2.74	0.32	≤8.81	PASS
	Ant2	5180	-2.64			
	Ant1	5200	-3.23	-0.17		
	Ant2	5200	-3.13			
	Ant1	5240	-4.41	-1.26		
	Ant2	5240	-4.14			
11AX40MIMO	Ant1	5190	-6.71	-3.60	≤8.81	PASS
	Ant2	5190	-6.51			
	Ant1	5230	-7.98	-4.83		
	Ant2	5230	-7.7			
11AX80MIMO	Ant1	5210	-7.44	-4.78	≤8.81	PASS
	Ant2	5210	-8.17			

Note:

1. Total (dBm)= $10 \times \log(10^{(\text{ANT1 power(dBm)/10})} + 10^{(\text{ANT2 power(dBm)/10})})$
2. As Directional gain= $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{\text{ANT}}]$ dBi,
so MIMO Limit (dBm/MHz)=Limit_{B1/B2/B3}-(Directional gain-6.00).

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Test Result B4

TestMode	Antenna	Frequency[MHz]	Result [dBm/300KHz]	Result [dBm/500KHz]	Limit[dBm/500KHz]	Verdict
11A	Ant1	5745	-5.99	-3.77	≤30.00	PASS
	Ant2	5745	-5.31	-3.09	≤30.00	PASS
	Ant1	5785	-5.74	-3.52	≤30.00	PASS
	Ant2	5785	-5.17	-2.95	≤30.00	PASS
	Ant1	5825	-4.98	-2.76	≤30.00	PASS
	Ant2	5825	-5.21	-2.99	≤30.00	PASS
11N20SISO	Ant1	5745	-6.1	-3.88	≤30.00	PASS
	Ant2	5745	-5.54	-3.32	≤30.00	PASS
	Ant1	5785	-6.09	-3.87	≤30.00	PASS
	Ant2	5785	-5.4	-3.18	≤30.00	PASS
	Ant1	5825	-5.36	-3.14	≤30.00	PASS
	Ant2	5825	-5.17	-2.95	≤30.00	PASS
11N40SISO	Ant1	5755	-8.91	-6.69	≤30.00	PASS
	Ant2	5755	-8.52	-6.30	≤30.00	PASS
	Ant1	5795	-8.44	-6.22	≤30.00	PASS
	Ant2	5795	-7.94	-5.72	≤30.00	PASS
11AC20SISO	Ant1	5745	-6.24	-4.02	≤30.00	PASS
	Ant2	5745	-5.66	-3.44	≤30.00	PASS
	Ant1	5785	-5.9	-3.68	≤30.00	PASS
	Ant2	5785	-5.54	-3.32	≤30.00	PASS
	Ant1	5825	-5.24	-3.02	≤30.00	PASS
	Ant2	5825	-5.11	-2.89	≤30.00	PASS
11AC40SISO	Ant1	5755	-9.05	-6.83	≤30.00	PASS
	Ant2	5755	-8.26	-6.04	≤30.00	PASS
	Ant1	5795	-8.2	-5.98	≤30.00	PASS
	Ant2	5795	-8.07	-5.85	≤30.00	PASS
11AC80SISO	Ant1	5775	-10.74	-8.52	≤30.00	PASS
	Ant2	5775	-10.64	-8.42	≤30.00	PASS
11AX20SISO	Ant1	5745	-6.28	-4.06	≤30.00	PASS
	Ant2	5745	-5.75	-3.53	≤30.00	PASS
	Ant1	5785	-6.08	-3.86	≤30.00	PASS
	Ant2	5785	-5.5	-3.28	≤30.00	PASS
	Ant1	5825	-5.61	-3.39	≤30.00	PASS
	Ant2	5825	-5.24	-3.02	≤30.00	PASS
11AX40SISO	Ant1	5755	-9.5	-7.28	≤30.00	PASS
	Ant2	5755	-9.03	-6.81	≤30.00	PASS
	Ant1	5795	-9.1	-6.88	≤30.00	PASS
	Ant2	5795	-9.25	-7.03	≤30.00	PASS

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11AX80SIS O	Ant1	5775	-10.59	-8.37	≤30.00	PASS
	Ant2	5775	-9.58	-7.36	≤30.00	PASS

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

2.Result [dBm/500KHz]=Result [dBm/300KHz]+10*Log10(500/300).

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MIMO:

Test Mode	Antenna	Frequency[MHz]	Result [dBm/500 KHz]	Total [dBm/500 KHz]	Limit[dBm/500KHz]	Verdict
11N20MIMO	Ant1	5745	-3.88	-0.58	≤28.95	PASS
	Ant2	5745	-3.32			
	Ant1	5785	-3.87	-0.50		
	Ant2	5785	-3.18			
	Ant1	5825	-3.14	-0.03		
	Ant2	5825	-2.95			
11N40MIMO	Ant1	5755	-6.69	-3.48		
	Ant2	5755	-6.30			
	Ant1	5795	-6.22	-2.95		
	Ant2	5795	-5.72			
11AC20MIMO	Ant1	5745	-4.02	-0.71		
	Ant2	5745	-3.44			
	Ant1	5785	-3.68	-0.49		
	Ant2	5785	-3.32			
	Ant1	5825	-3.02	0.06		
	Ant2	5825	-2.89			
11AC40MIMO	Ant1	5755	-6.83	-3.41		
	Ant2	5755	-6.04			
	Ant1	5795	-5.98	-2.90		
	Ant2	5795	-5.85			
11AC80MIMO	Ant1	5775	-8.52	-5.46		
	Ant2	5775	-8.42			
11AX20MIMO	Ant1	5745	-4.06	-0.78		
	Ant2	5745	-3.53			
	Ant1	5785	-3.86	-0.55		
	Ant2	5785	-3.28			
	Ant1	5825	-3.39	-0.19		
	Ant2	5825	-3.02			
11AX40MIMO	Ant1	5755	-7.28	-4.03		
	Ant2	5755	-6.81			
	Ant1	5795	-6.88	-3.94		
	Ant2	5795	-7.03			
11AX80MIMO	Ant1	5775	-8.37	-4.83		
	Ant2	5775	-7.36			

Note:

3. Total (dBm)=10xlog(10^{(ANT1 power(dBm)/10)} + 10^{(ANT2 power(dBm)/10)})4. As Directional gain=10 log[(10^{G1/20} + 10^{G2/20})² /N_{ANT}] dBi,so MIMO Limit (dBm/MHz)=Limit_{B4}-(Directional gain-6.00).

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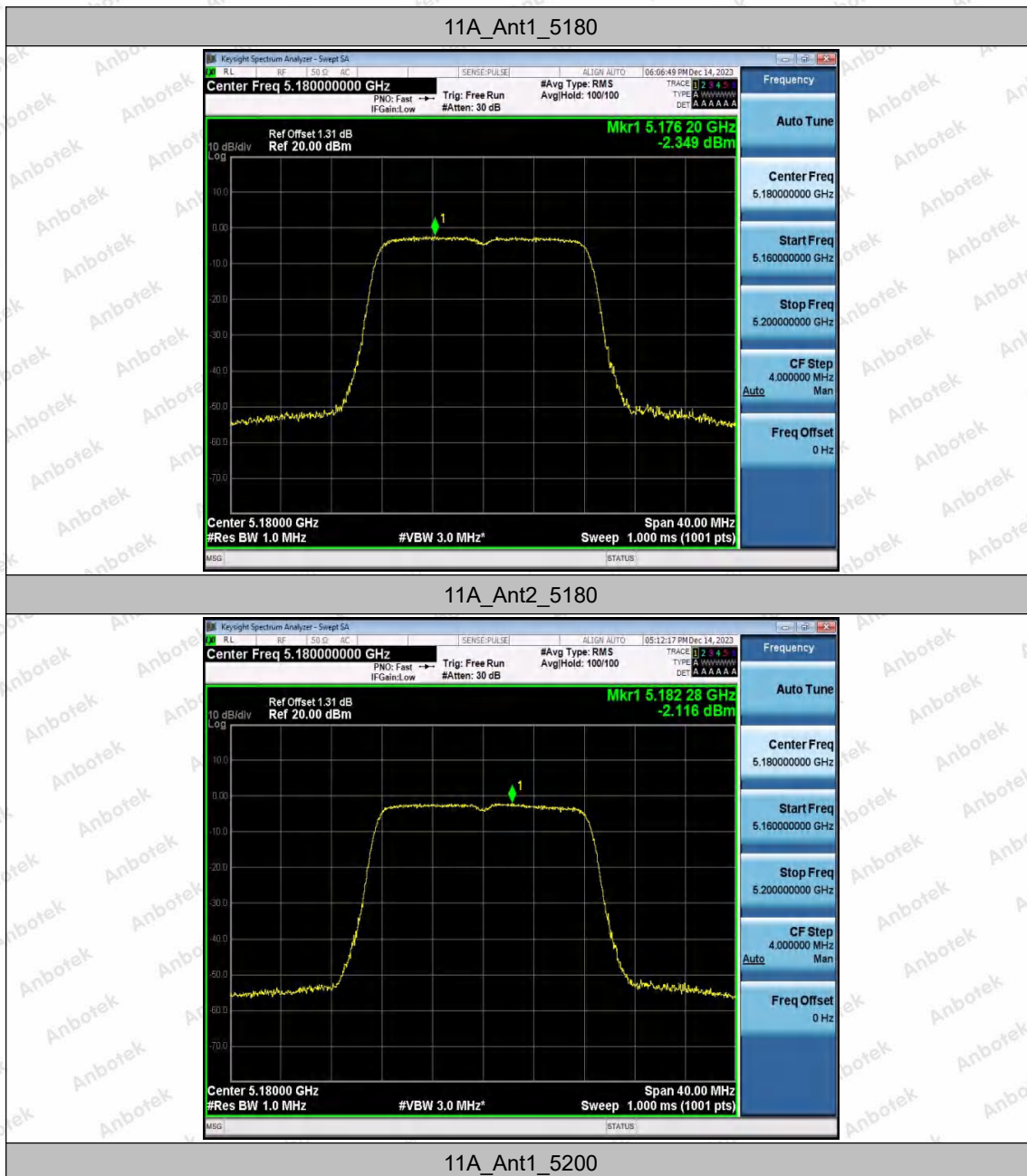
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Test Graphs B1



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11A_Ant2_5200



11A_Ant1_5240



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11A_Ant2_5240



11N20SISO_Ant1_5180



11N20SISO_Ant2_5180

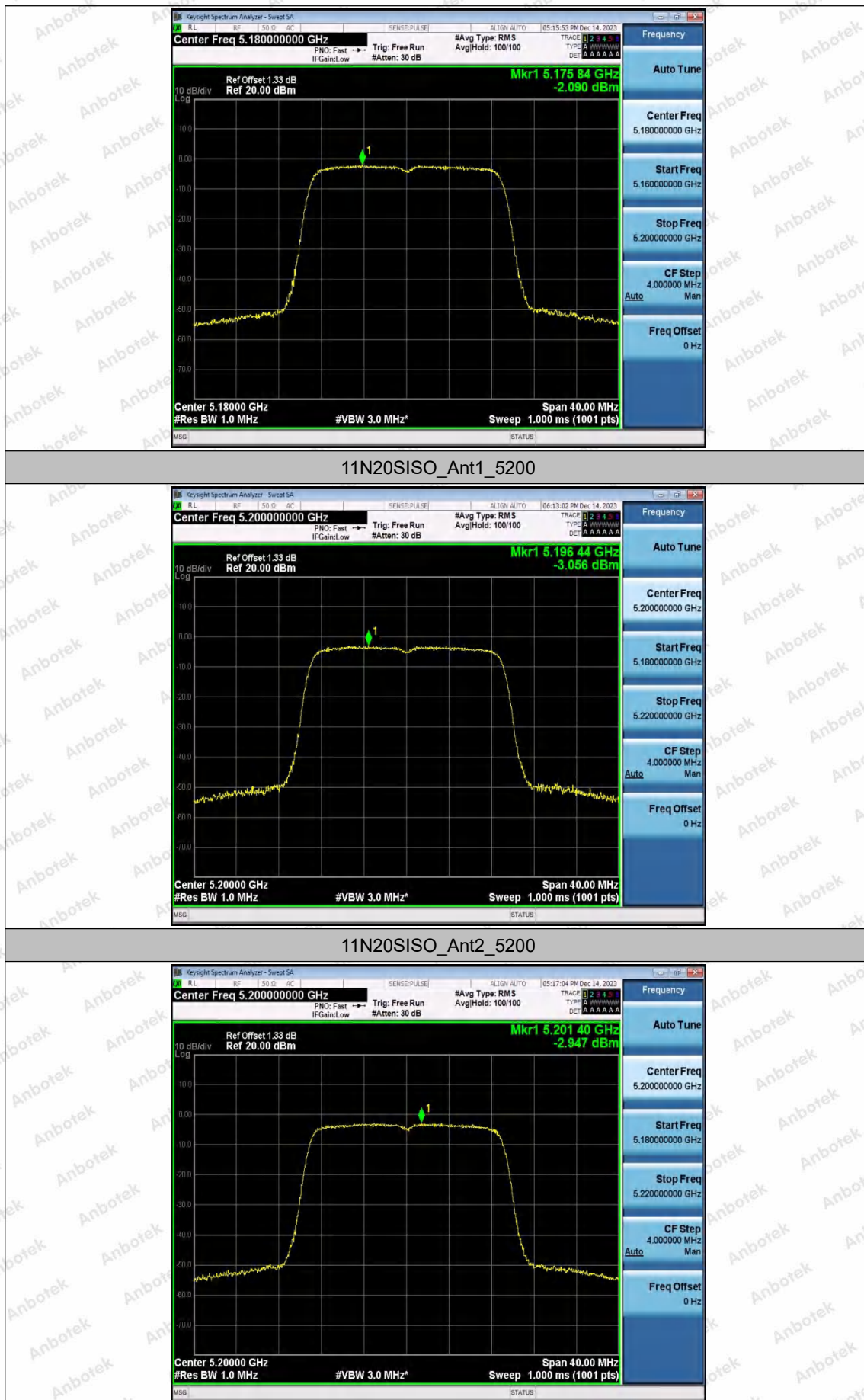
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11N20SISO_Ant1_5240



11N20SISO_Ant2_5240



11N40SISO_Ant1_5190

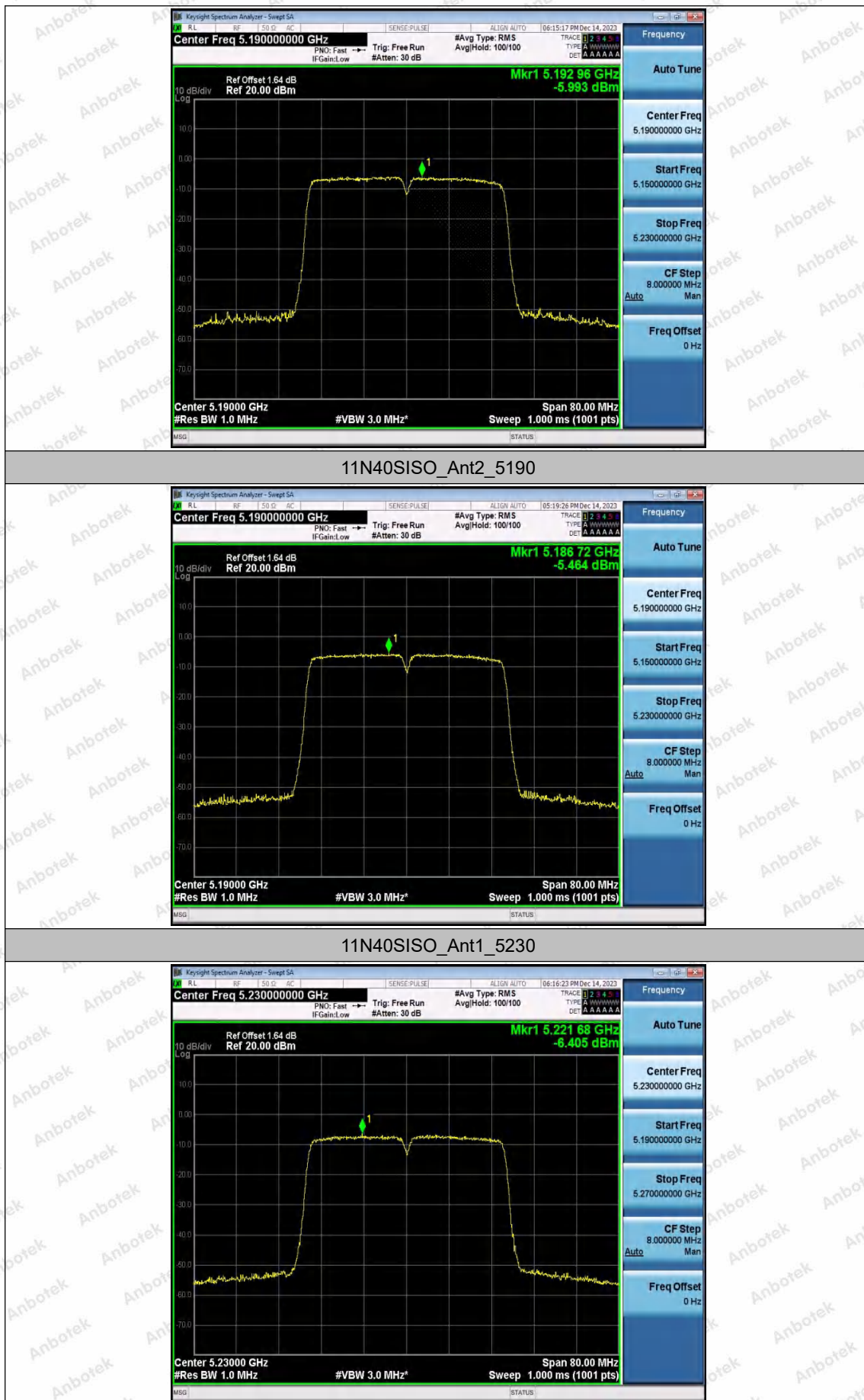
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11N40SISO_Ant2_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant2_5180

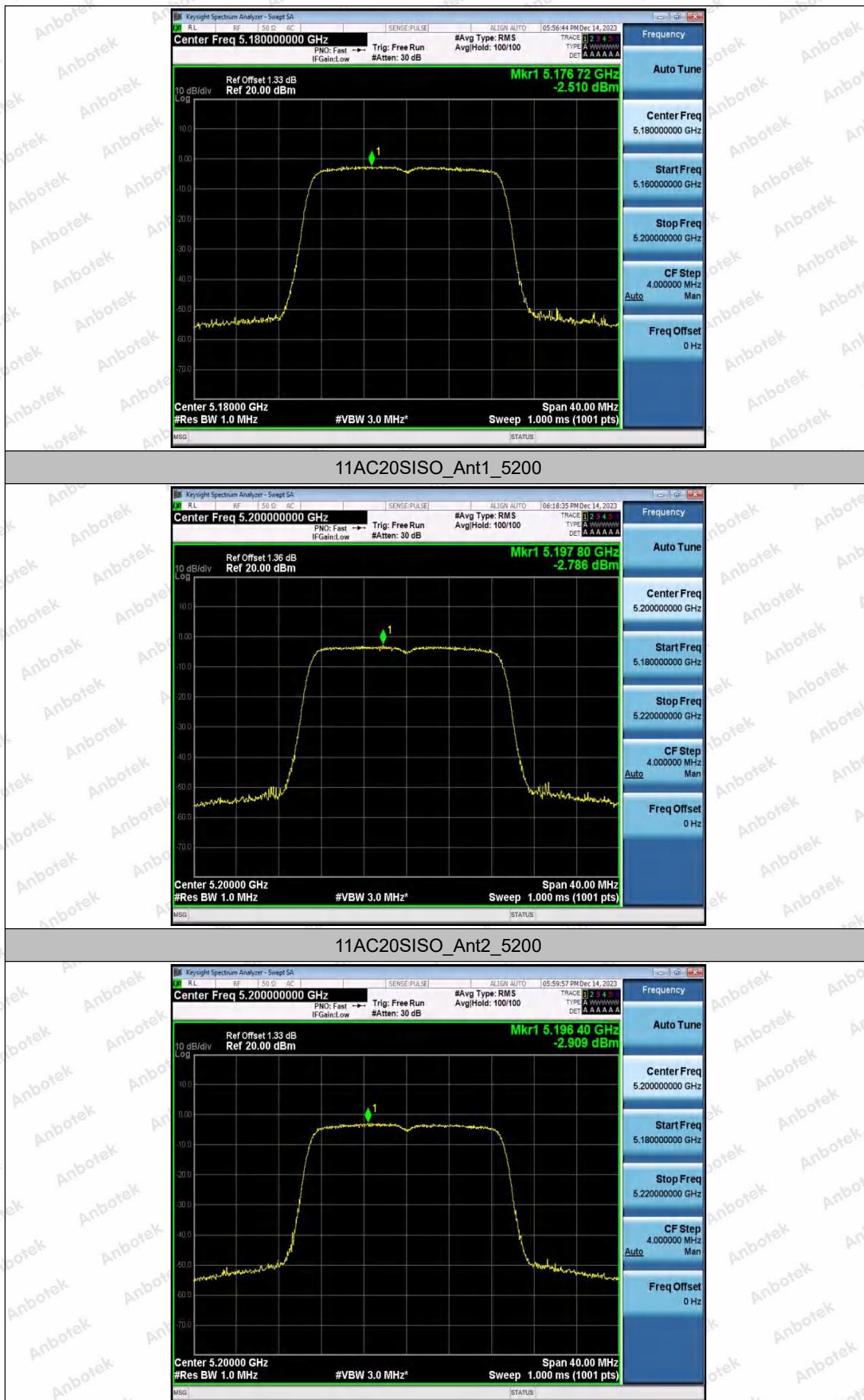
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11AC20SISO_Ant1_5240



11AC20SISO_Ant2_5240



11AC40SISO_Ant1_5190

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11AC40SISO_Ant2_5230



11AC80SISO_Ant1_5210



11AC80SISO_Ant2_5210

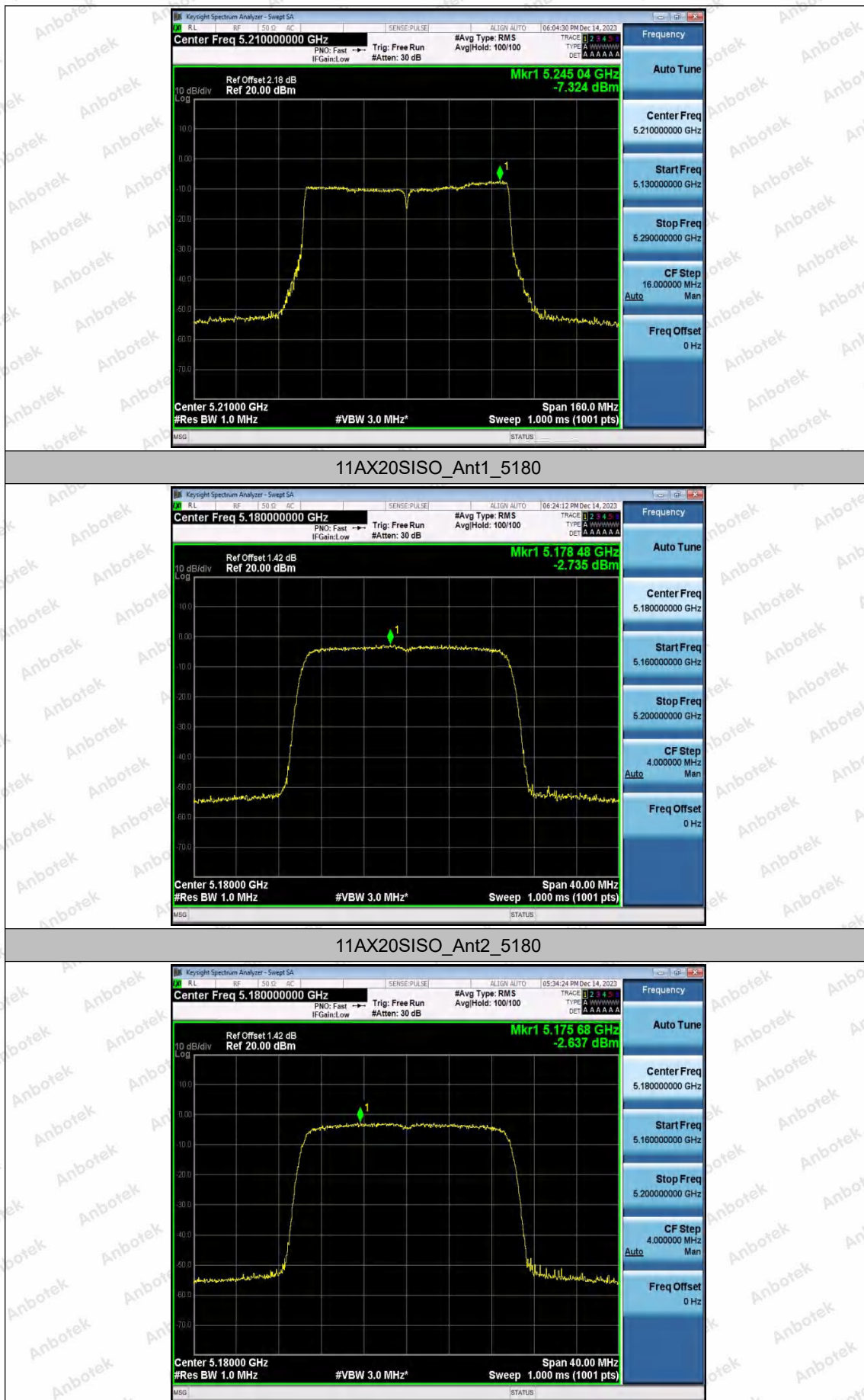
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11AX20SISO_Ant1_5200



11AX20SISO_Ant2_5200



11AX20SISO_Ant1_5240

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11AX40SISO_Ant2_5190



11AX40SISO_Ant1_5230



11AX40SISO_Ant2_5230

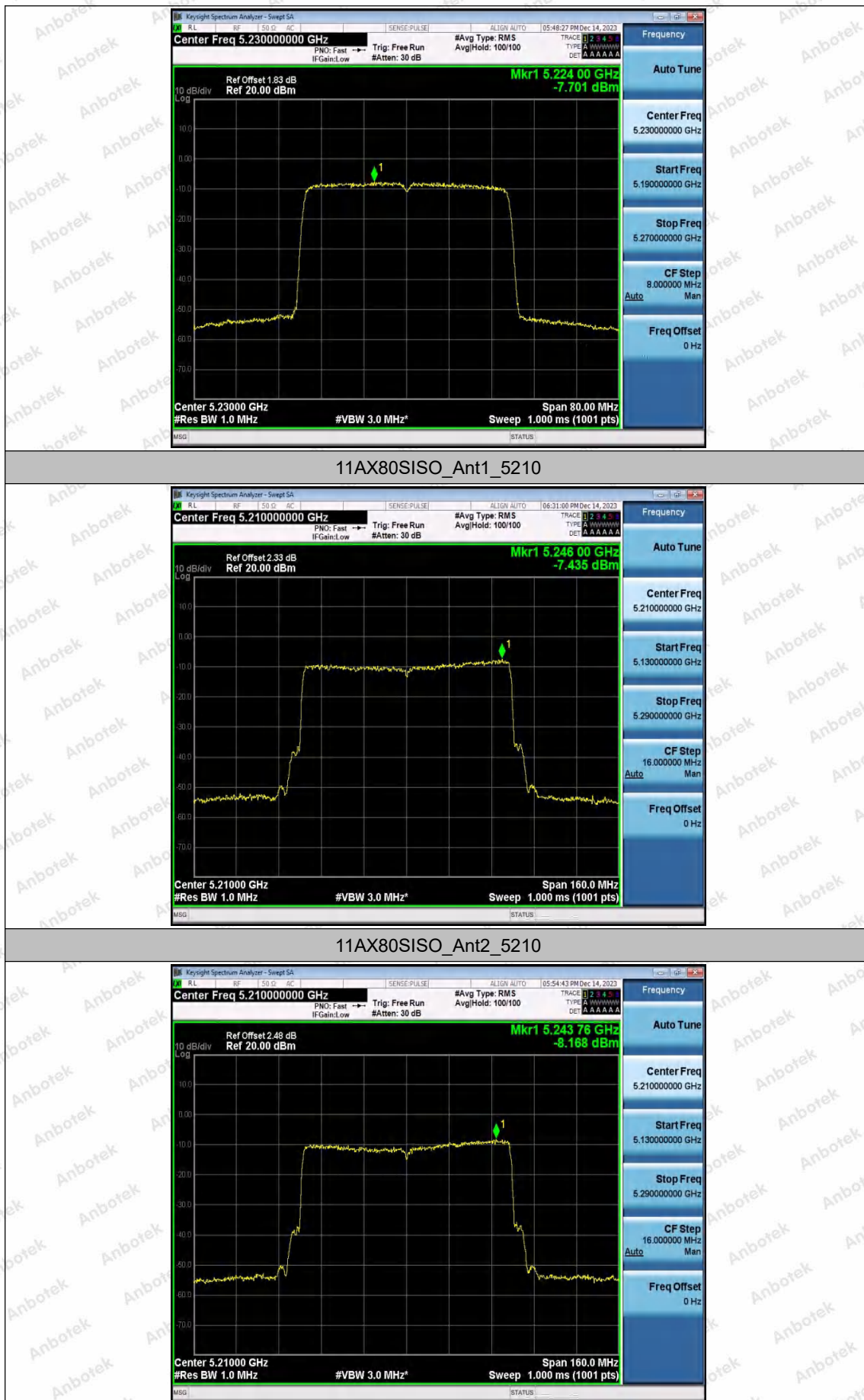
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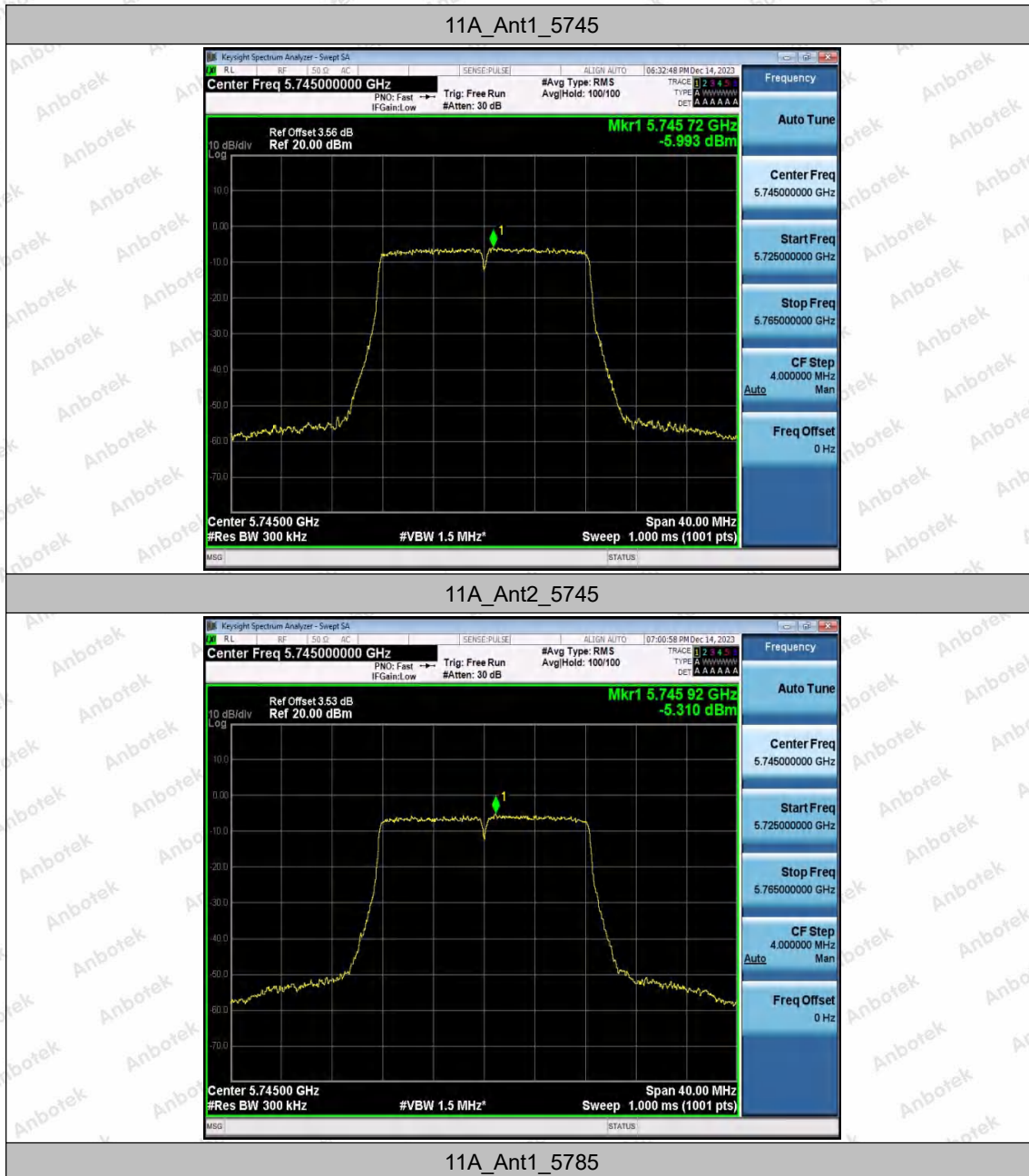
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Test Graphs B4



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11A_Ant2_5825



11N20SISO_Ant1_5745



11N20SISO_Ant2_5745

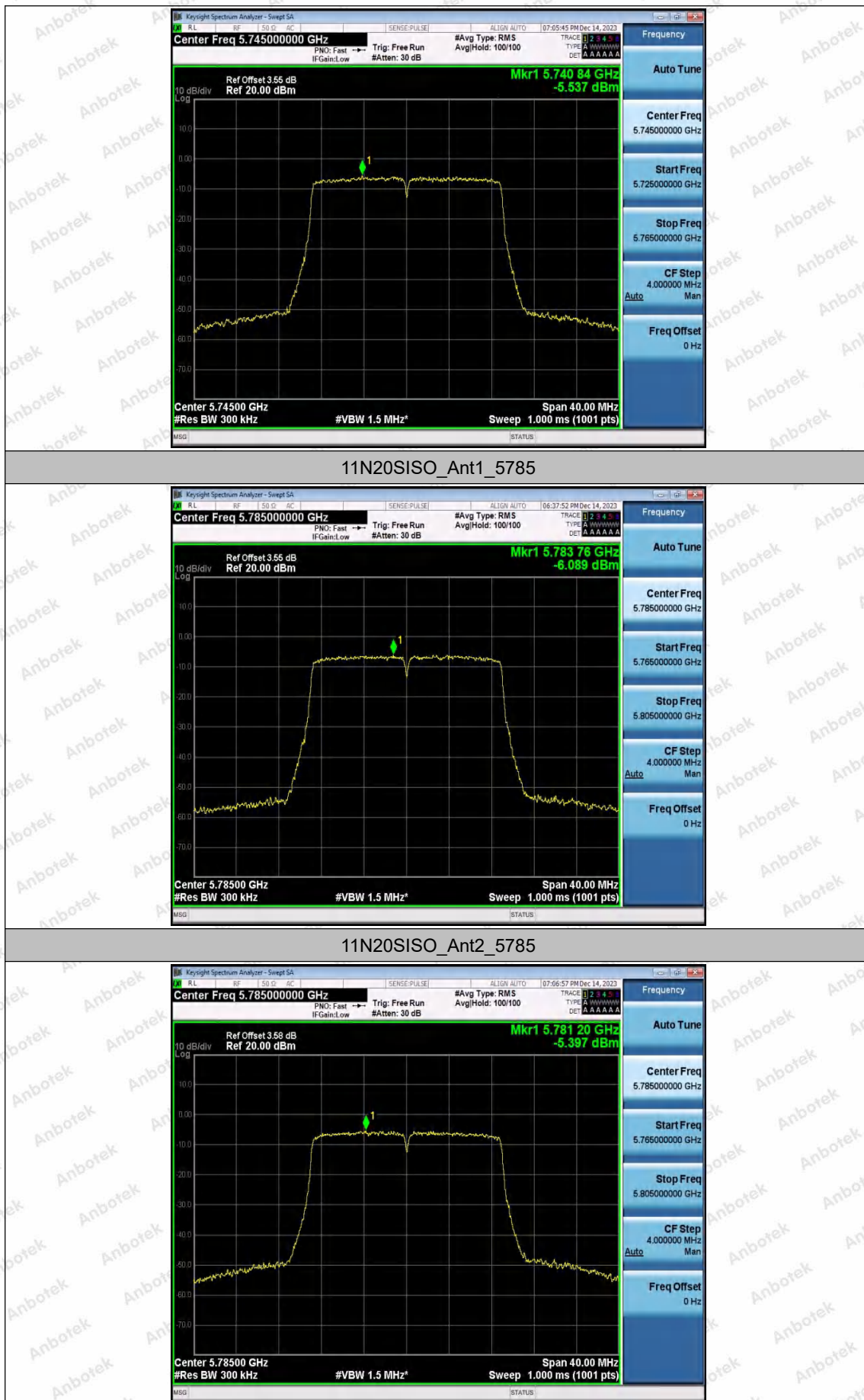
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11N20SISO_Ant1_5825



11N20SISO_Ant2_5825



11N40SISO_Ant1_5755

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11N40SISO_Ant2_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant2_5745

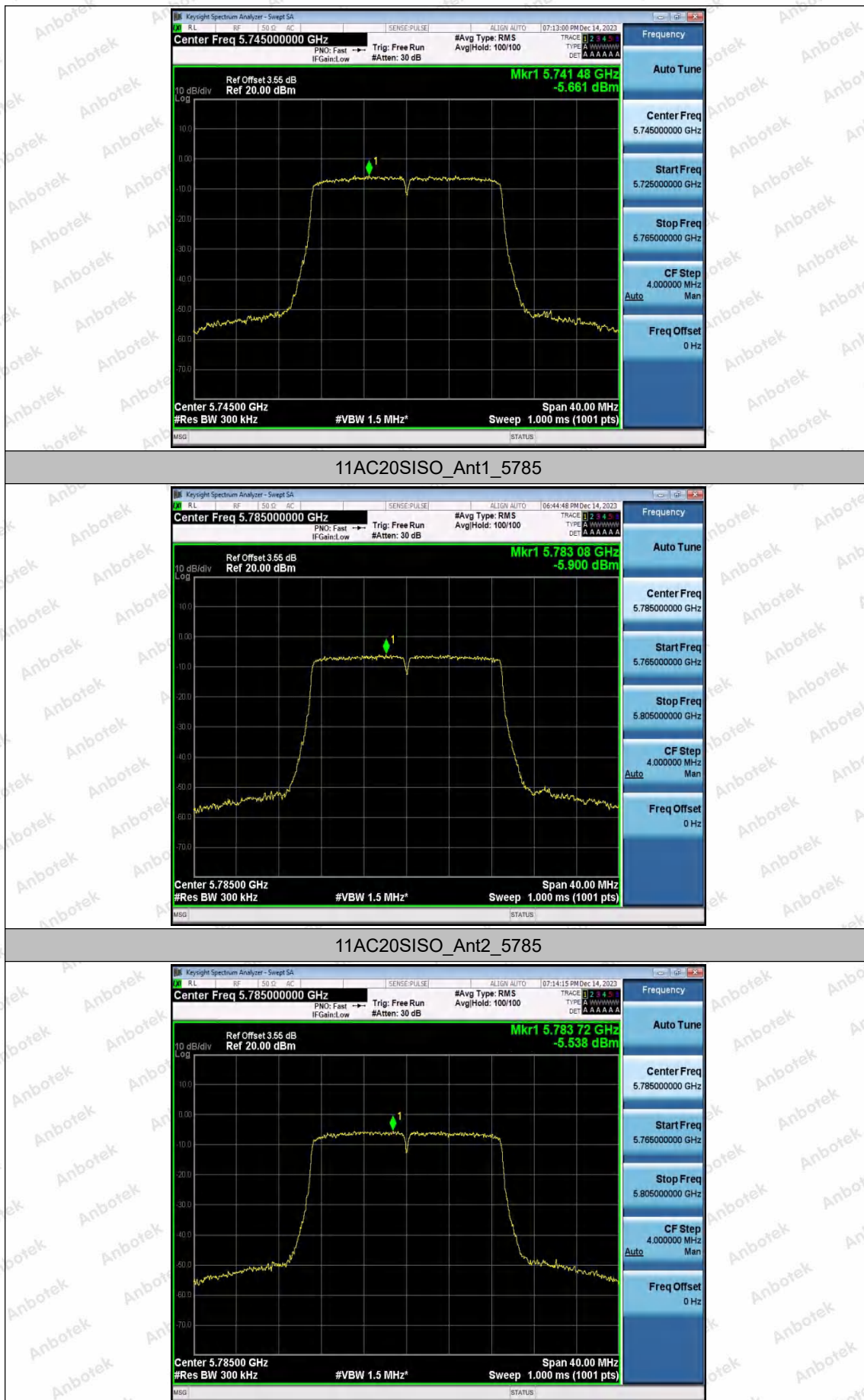
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11AC20SISO_Ant1_5825



11AC20SISO_Ant2_5825



11AC40SISO_Ant1_5755

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11AC40SISO_Ant2_5795



11AC80SISO_Ant1_5775



11AC80SISO_Ant2_5775

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11AX20SISO_Ant1_5745



11AX20SISO_Ant2_5745



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11AX20SISO_Ant1_5785



11AX20SISO_Ant2_5785



11AX20SISO_Ant1_5825

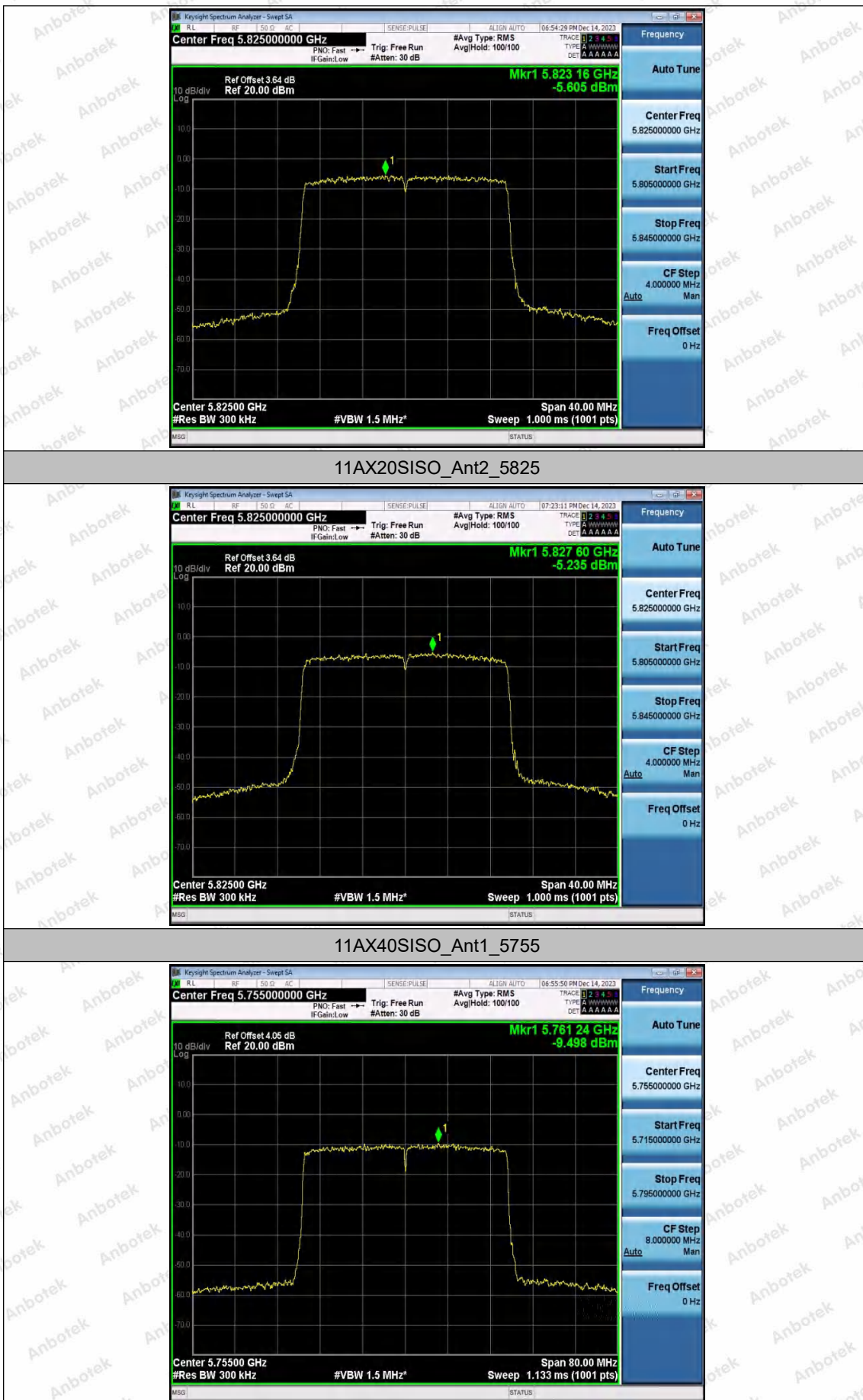
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11AX40SISO_Ant2_5755



11AX40SISO_Ant1_5795



11AX40SISO_Ant2_5795

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11AX80ISO_Ant1_5775



11AX80ISO_Ant2_5775



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