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## Appendix D: Maximum Power Spectral Density

### Test Result B1

Test Mode	Antenna	Frequency[MHz]	Reading Result[dBm /MHz]	DC Factor [dBm]	Result [dBm]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	-0.48	0.13	-0.35	≤11.00	PASS
11A	Ant2	5180	-0.32	0.26	-0.06	≤11.00	PASS
11A	Ant1	5220	-0.19	0.13	-0.06	≤11.00	PASS
11A	Ant2	5220	-0.55	0.13	-0.42	≤11.00	PASS
11A	Ant1	5240	-0.62	0.13	-0.49	≤11.00	PASS
11A	Ant2	5240	-0.59	0.26	-0.33	≤11.00	PASS
11N20MI MO	Ant1	5180	-0.69	0.13	-0.56	≤11.00	PASS
11N20MI MO	Ant2	5180	-0.82	0.13	-0.69	≤11.00	PASS
11N20MI MO	total	5180	---	---	2.39	≤11.00	PASS
11N20MI MO	Ant1	5220	-0.52	0.13	-0.39	≤11.00	PASS
11N20MI MO	Ant2	5220	-0.79	0.26	-0.53	≤11.00	PASS
11N20MI MO	total	5220	---	---	2.55	≤11.00	PASS
11N20MI MO	Ant1	5240	-0.65	0.13	-0.52	≤11.00	PASS
11N20MI MO	Ant2	5240	-0.99	0.13	-0.86	≤11.00	PASS
11N20MI MO	total	5240	---	---	2.32	≤11.00	PASS
11N40MI MO	Ant1	5190	-3.44	0.23	-3.21	≤11.00	PASS
11N40MI MO	Ant2	5190	-3.30	0.23	-3.07	≤11.00	PASS
11N40MI MO	total	5190	---	---	-0.13	≤11.00	PASS
11N40MI MO	Ant1	5230	-3.76	0.23	-3.53	≤11.00	PASS
11N40MI MO	Ant2	5230	-3.74	0.23	-3.51	≤11.00	PASS
11N40MI MO	total	5230	---	---	-0.51	≤11.00	PASS

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11AC20M IMO	Ant1	5180	-0.51	0.13	-0.38	$\leq 11.00$	PASS
11AC20M IMO	Ant2	5180	-0.53	0.13	-0.40	$\leq 11.00$	PASS
11AC20M IMO	total	5180	---	---	2.62	$\leq 11.00$	PASS
11AC20M IMO	Ant1	5220	-1.11	0.13	-0.98	$\leq 11.00$	PASS
11AC20M IMO	Ant2	5220	-1.01	0.13	-0.88	$\leq 11.00$	PASS
11AC20M IMO	total	5220	---	---	2.08	$\leq 11.00$	PASS
11AC20M IMO	Ant1	5240	-0.94	0.13	-0.81	$\leq 11.00$	PASS
11AC20M IMO	Ant2	5240	-0.93	0.13	-0.80	$\leq 11.00$	PASS
11AC20M IMO	total	5240	---	---	2.21	$\leq 11.00$	PASS
11AC40M IMO	Ant1	5190	-3.37	0.23	-3.14	$\leq 11.00$	PASS
11AC40M IMO	Ant2	5190	-3.47	0.23	-3.24	$\leq 11.00$	PASS
11AC40M IMO	total	5190	---	---	-0.18	$\leq 11.00$	PASS
11AC40M IMO	Ant1	5230	-3.70	0.23	-3.47	$\leq 11.00$	PASS
11AC40M IMO	Ant2	5230	-3.55	0.23	-3.32	$\leq 11.00$	PASS
11AC40M IMO	total	5230	---	---	-0.38	$\leq 11.00$	PASS
11AC80M IMO	Ant1	5210	-7.63	0.41	-7.22	$\leq 11.00$	PASS
11AC80M IMO	Ant2	5210	-7.53	0.38	-7.15	$\leq 11.00$	PASS
11AC80M IMO	total	5210	---	---	-4.17	$\leq 11.00$	PASS

Note: 1.The Duty Cycle Factor and cable loss are compensated in the graph.  
 2. As Directional gain =  $10 \log[(10G1/20 + 10G2/20) 2 / NANT]$  dBi=4.48<6dBi,  
 so limit=11dBm/MHz.  
 3.NOTE: MIMO=  $10^*LOG((10^*ANT1/10)+10^*(ANT2/10))$

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**Test Result B4**

Test Mode	Antenna	Frequency[MHz]	Reading Result[dBm /510KHz]	DC Factor [dBm]	Result [dBm/510KHz]	Result [dBm/500KHz]	Limit [dBm/500KHz]	Verdict
11A	Ant1	5745	-2.73	0.13	-2.69	-2.78	≤30.00	PASS
11A	Ant2	5745	-2.55	0.13	-2.51	-2.60	≤30.00	PASS
11A	Ant1	5785	-2.90	0.26	-2.73	-2.82	≤30.00	PASS
11A	Ant2	5785	-2.97	0.13	-2.93	-3.02	≤30.00	PASS
11A	Ant1	5825	-2.83	0.13	-2.79	-2.88	≤30.00	PASS
11A	Ant2	5825	-3.12	0.26	-2.95	-3.04	≤30.00	PASS
11N20MI MO	Ant1	5745	-3.01	0.13	-2.97	-3.06	≤30.00	PASS
11N20MI MO	Ant2	5745	-2.99	0.26	-2.82	-2.91	≤30.00	PASS
11N20MI MO	total	5745	---	---	3.01	2.92	≤30.00	PASS
11N20MI MO	Ant1	5785	-3.29	0.13	-3.25	-3.34	≤30.00	PASS
11N20MI MO	Ant2	5785	-3.37	0.13	-3.33	-3.42	≤30.00	PASS
11N20MI MO	total	5785	---	---	3.01	2.92	≤30.00	PASS
11N20MI MO	Ant1	5825	-3.45	0.26	-3.28	-3.37	≤30.00	PASS
11N20MI MO	Ant2	5825	-3.55	0.13	-3.51	-3.60	≤30.00	PASS
11N20MI MO	total	5825	---	---	3.01	2.92	≤30.00	PASS
11N40MI MO	Ant1	5755	-6.05	0.48	-5.66	-5.75	≤30.00	PASS
11N40MI MO	Ant2	5755	-5.92	0.23	-5.78	-5.87	≤30.00	PASS
11N40MI MO	total	5755	---	---	3.01	2.92	≤30.00	PASS
11N40MI MO	Ant1	5795	-6.13	0.23	-5.99	-6.08	≤30.00	PASS
11N40MI MO	Ant2	5795	-5.93	0.23	-5.79	-5.88	≤30.00	PASS
11N40MI MO	total	5795	---	---	3.01	2.92	≤30.00	PASS
11AC20M IMO	Ant1	5745	-2.96	0.26	-2.79	-2.88	≤30.00	PASS

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11AC20M IMO	Ant2	5745	-2.85	0.13	-2.81	-2.90	≤30.00	PASS
11AC20M IMO	total	5745	---	---	3.01	2.92	≤30.00	PASS
11AC20M IMO	Ant1	5785	-3.21	0.13	-3.17	-3.26	≤30.00	PASS
11AC20M IMO	Ant2	5785	-3.12	0.26	-2.95	-3.04	≤30.00	PASS
11AC20M IMO	total	5785	---	---	3.01	2.92	≤30.00	PASS
11AC20M IMO	Ant1	5825	-3.49	0.13	-3.45	-3.54	≤30.00	PASS
11AC20M IMO	Ant2	5825	-3.40	0.13	-3.36	-3.45	≤30.00	PASS
11AC20M IMO	total	5825	---	---	3.01	2.92	≤30.00	PASS
11AC40M IMO	Ant1	5755	-5.70	0.23	-5.56	-5.65	≤30.00	PASS
11AC40M IMO	Ant2	5755	-5.72	0.23	-5.58	-5.67	≤30.00	PASS
11AC40M IMO	total	5755	---	---	3.01	2.92	≤30.00	PASS
11AC40M IMO	Ant1	5795	-5.82	0.46	-5.45	-5.54	≤30.00	PASS
11AC40M IMO	Ant2	5795	-6.01	0.46	-5.64	-5.73	≤30.00	PASS
11AC40M IMO	total	5795	---	---	3.01	2.92	≤30.00	PASS
11AC80M IMO	Ant1	5775	-10.09	0.41	-9.77	-9.86	≤30.00	PASS
11AC80M IMO	Ant2	5775	-9.90	0.79	-9.20	-9.29	≤30.00	PASS
11AC80M IMO	total	5775	---	---	3.01	2.92	≤30.00	PASS

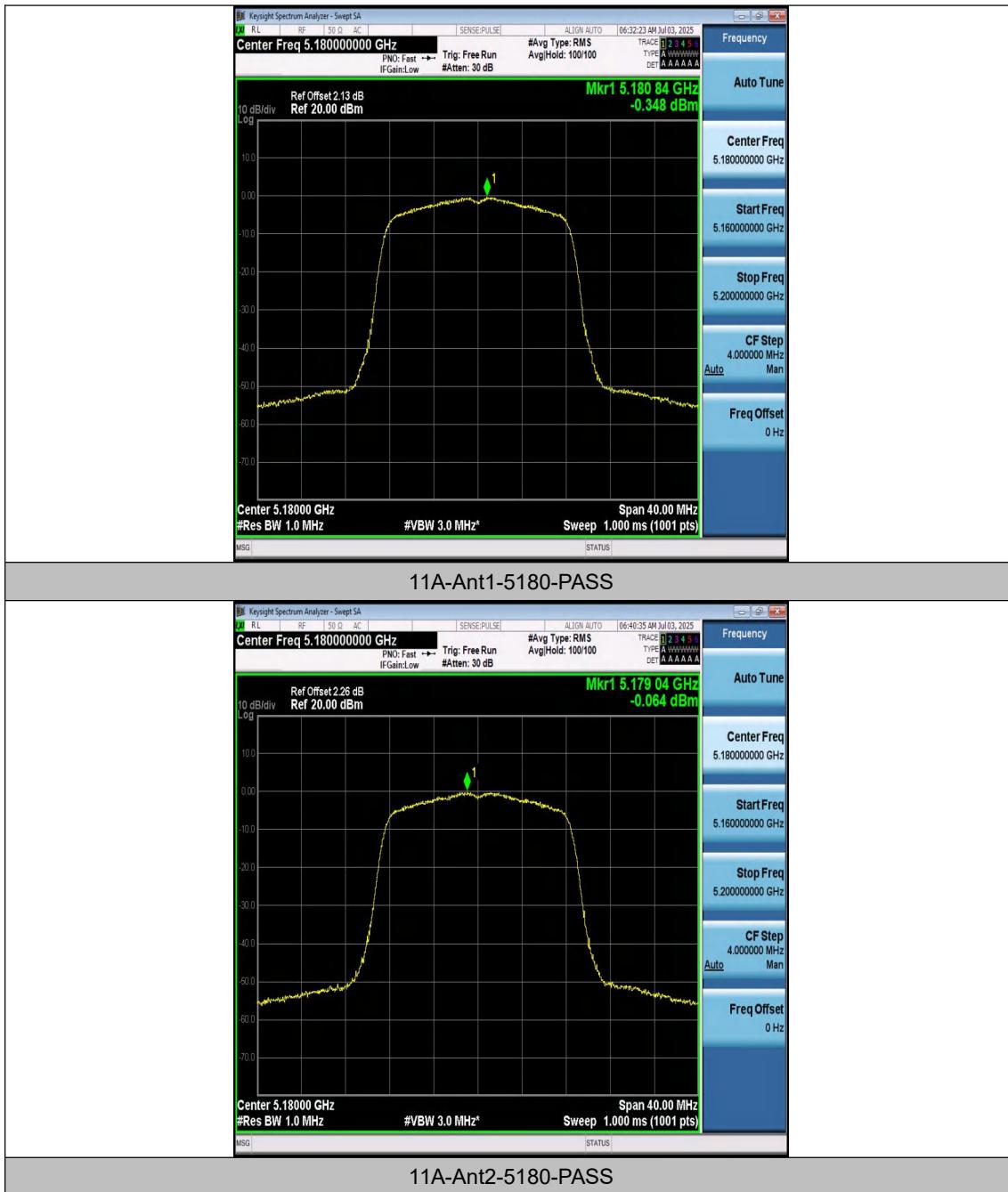
Note: 1.The Duty Cycle Factor and cable loss and RBW Factor are compensated in the graph.  
 2. As Directional gain =  $10 \log[(10G1/20 + 10G2/20) 2 / NANT]$  dBi=5.31<6dBi,  
 so limit=30dBm/500KHz.  
 3.NOTE: MIMO=  $10^*LOG((10^*ANT1/10)+10^*(ANT2/10))$

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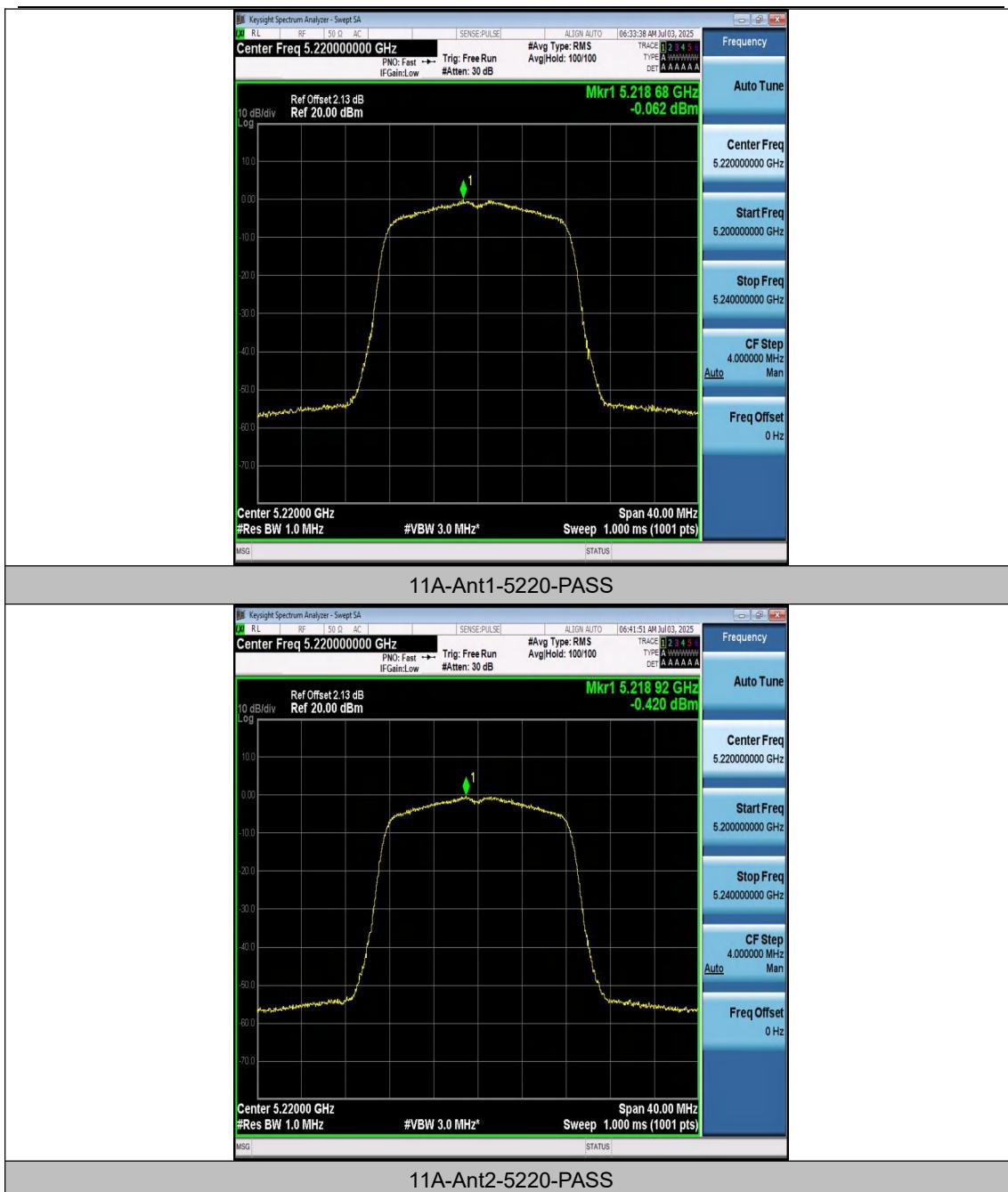
## Test Graphs B1



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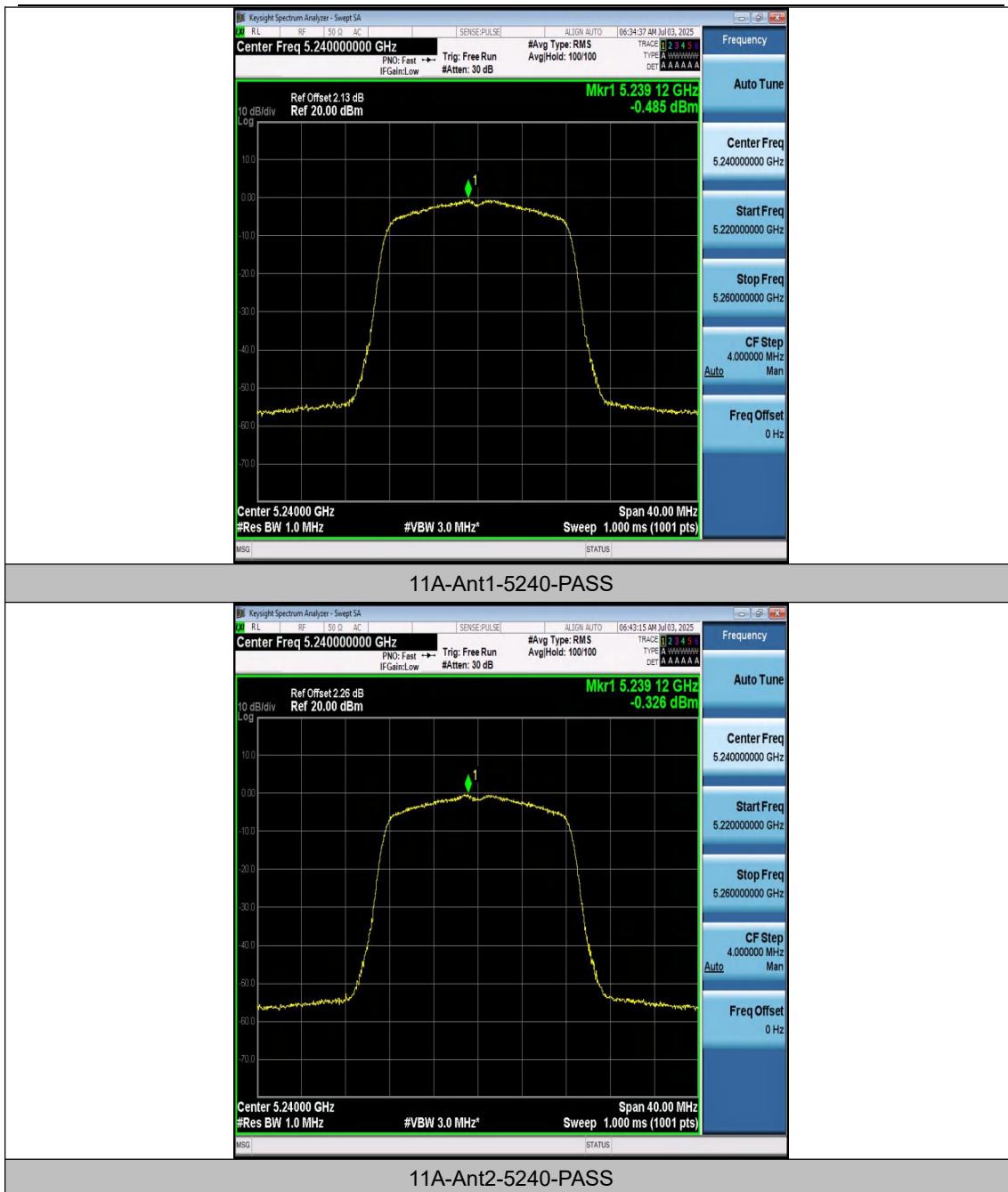
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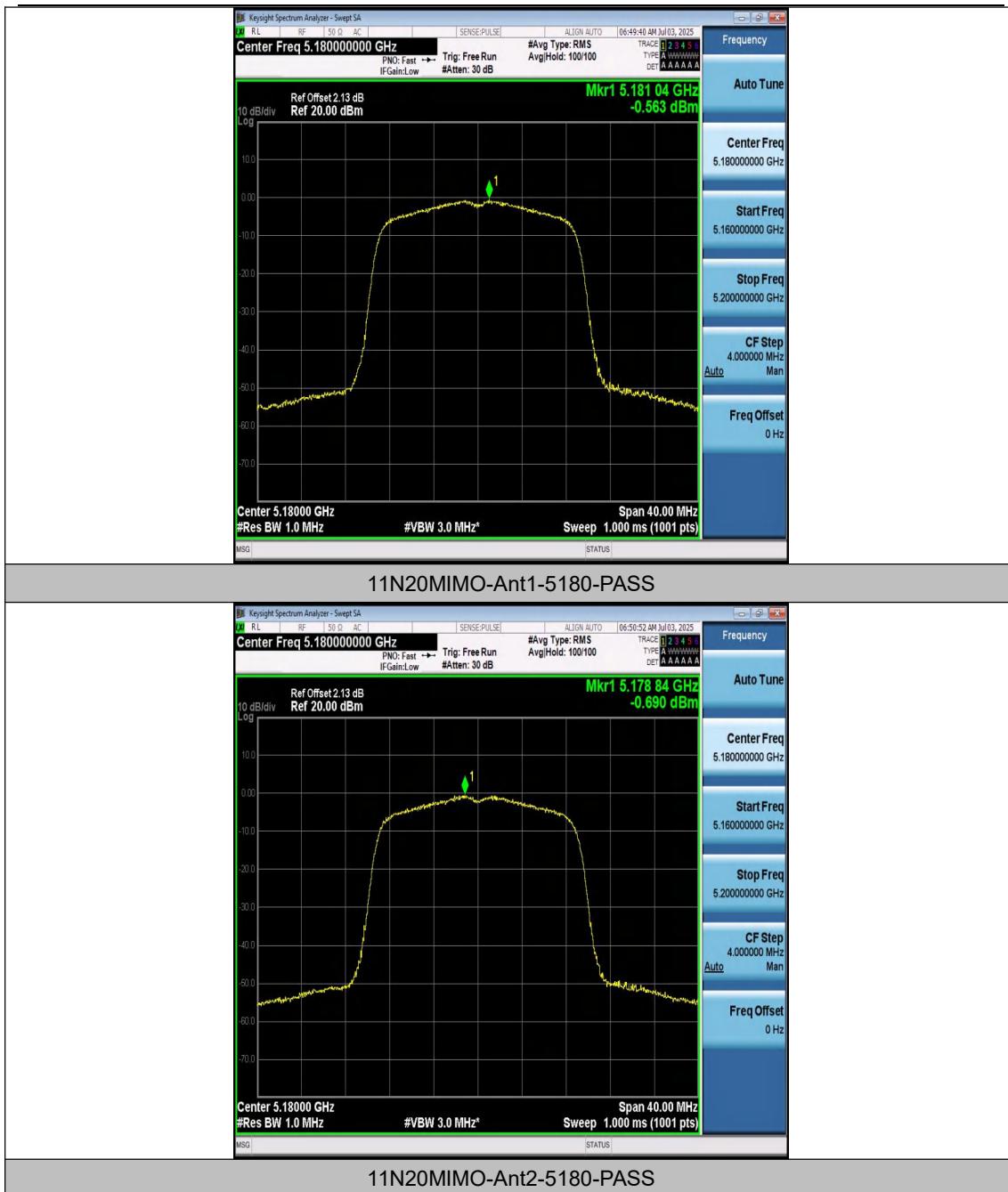
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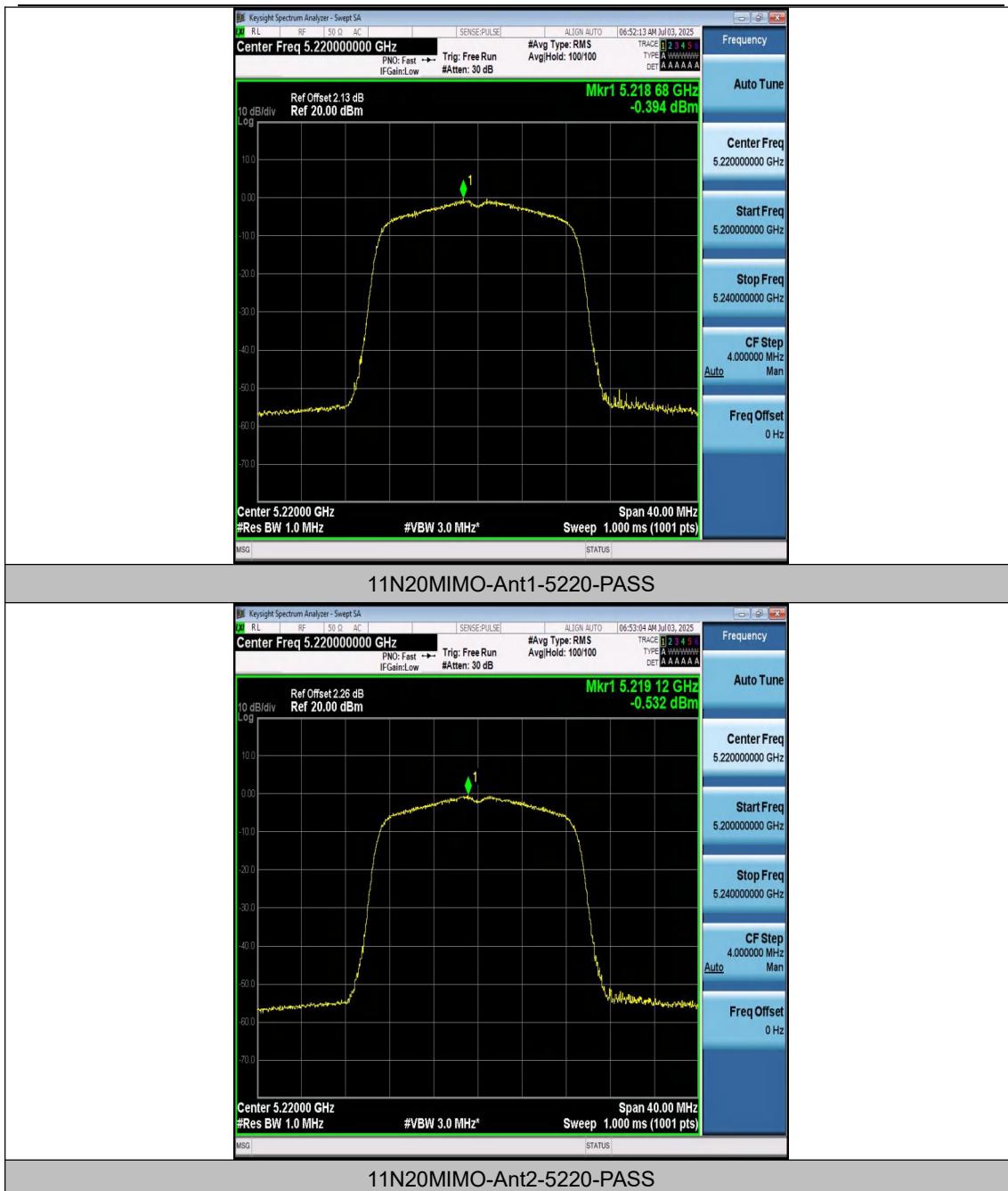
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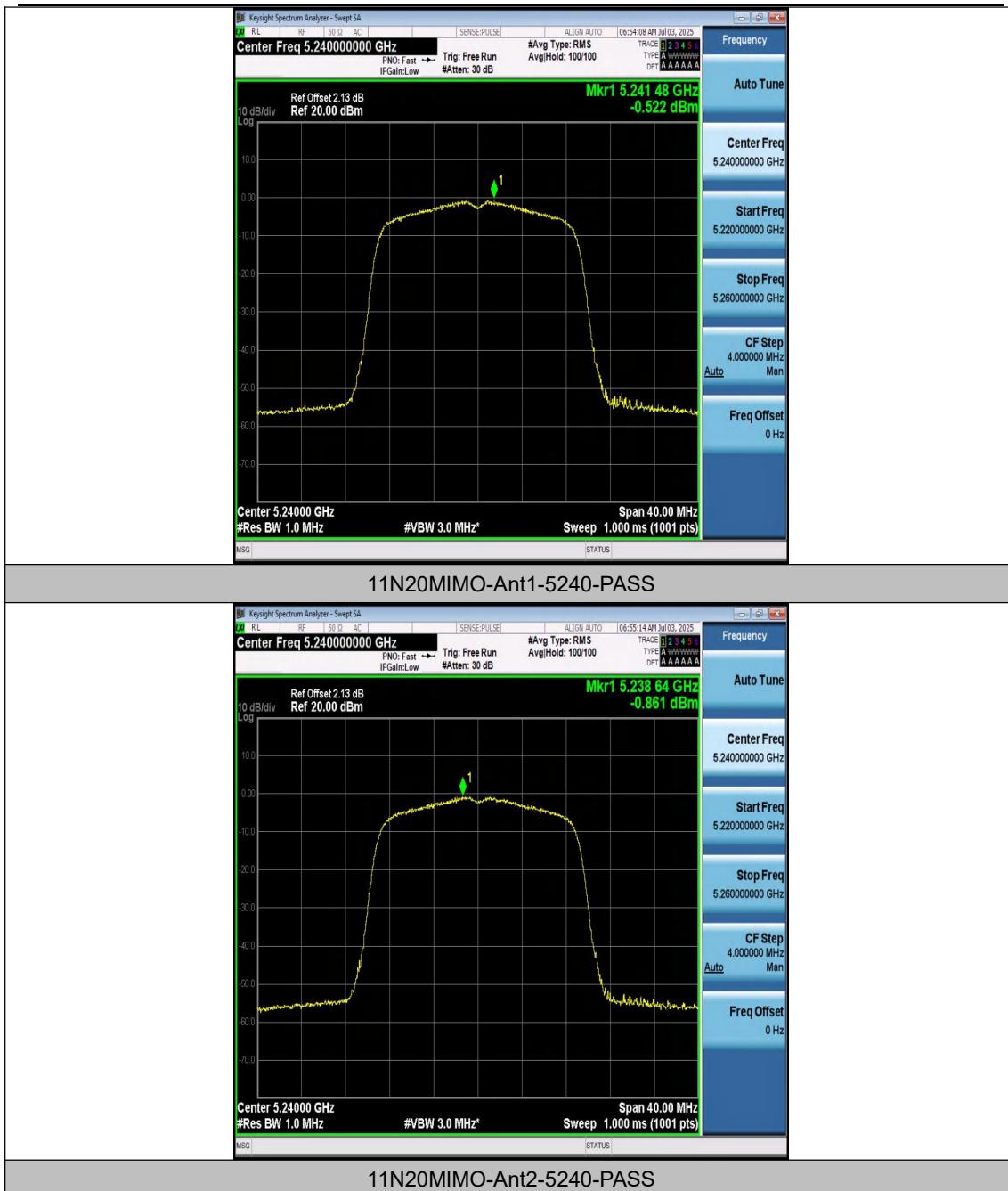
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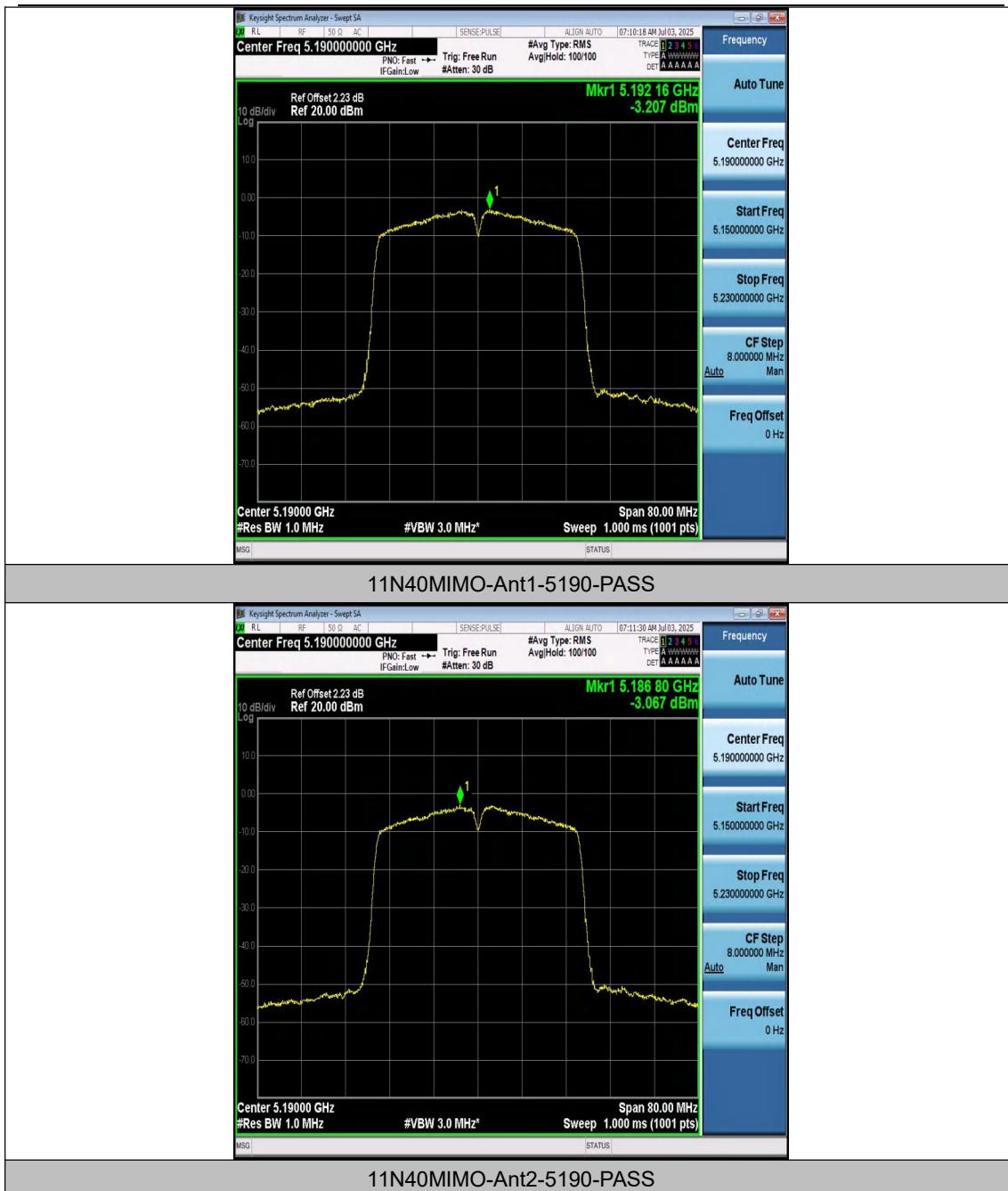


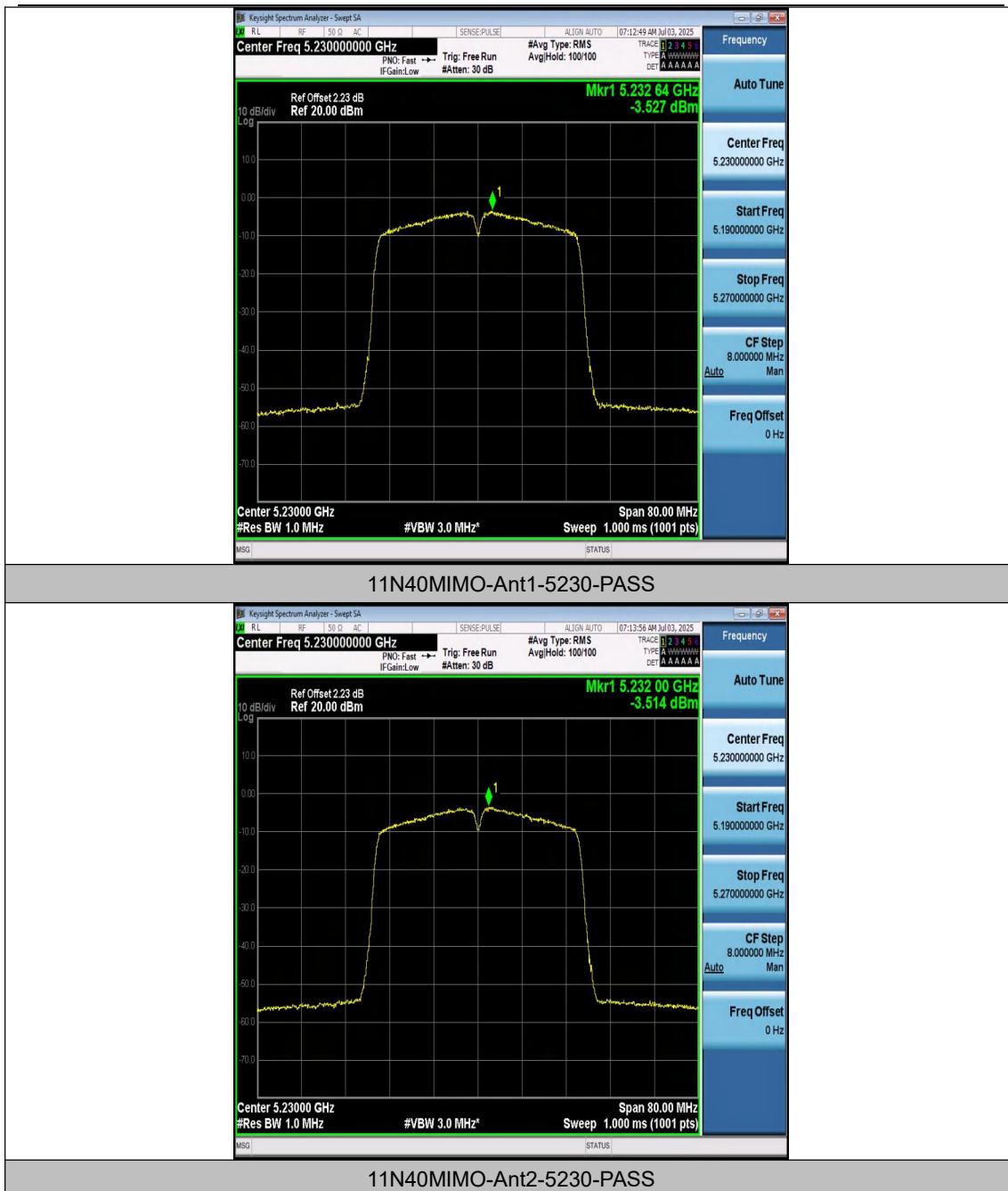


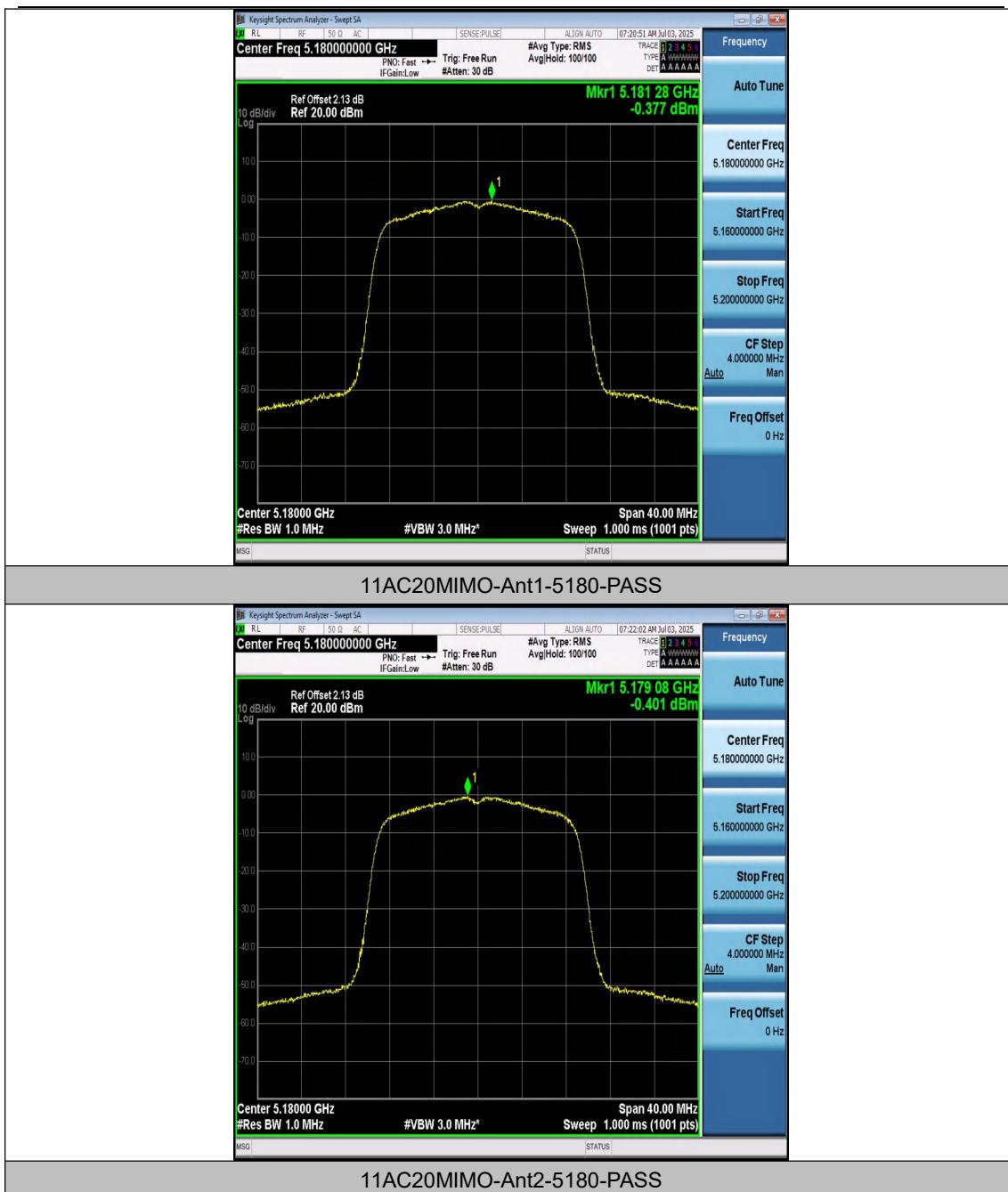
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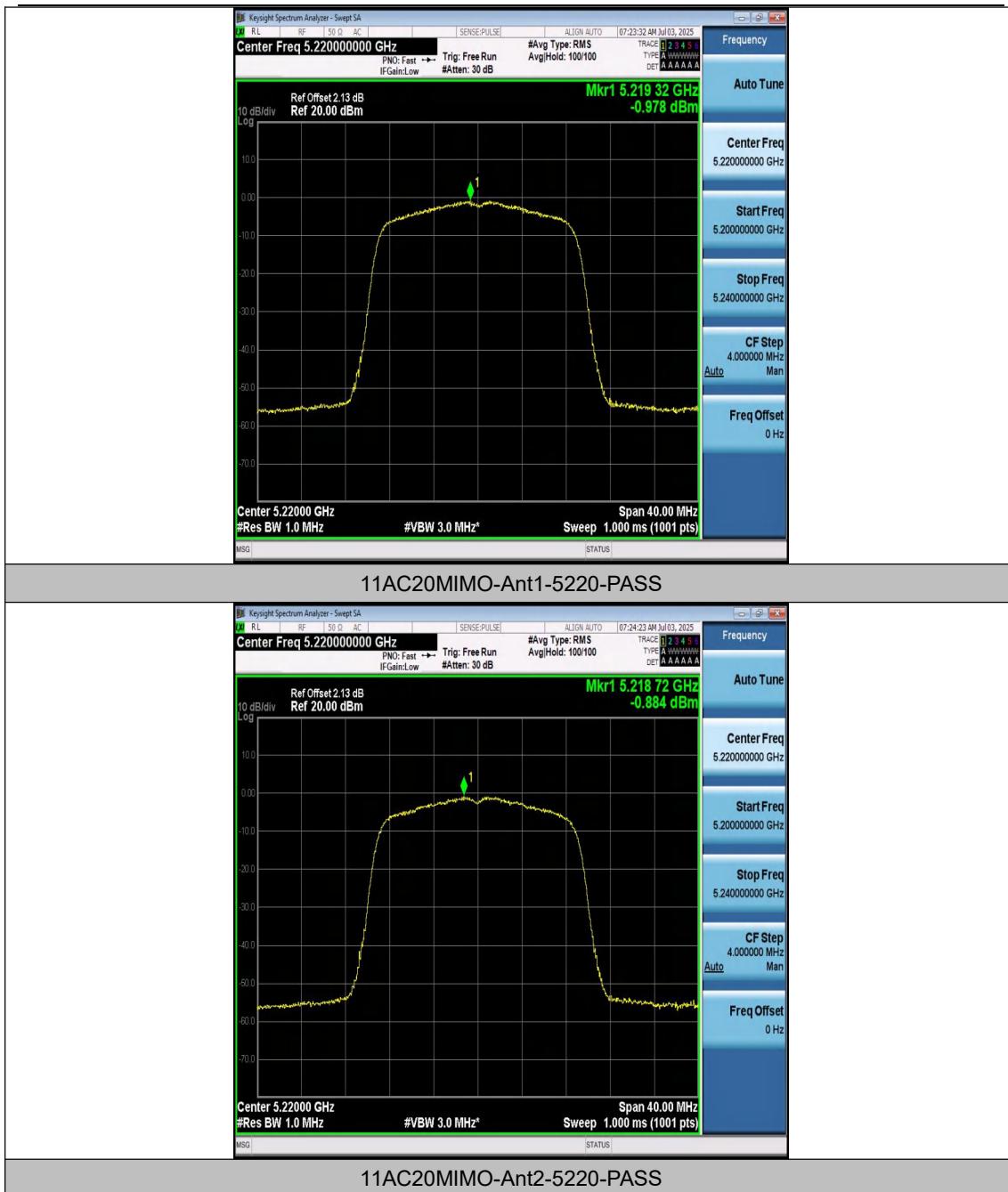




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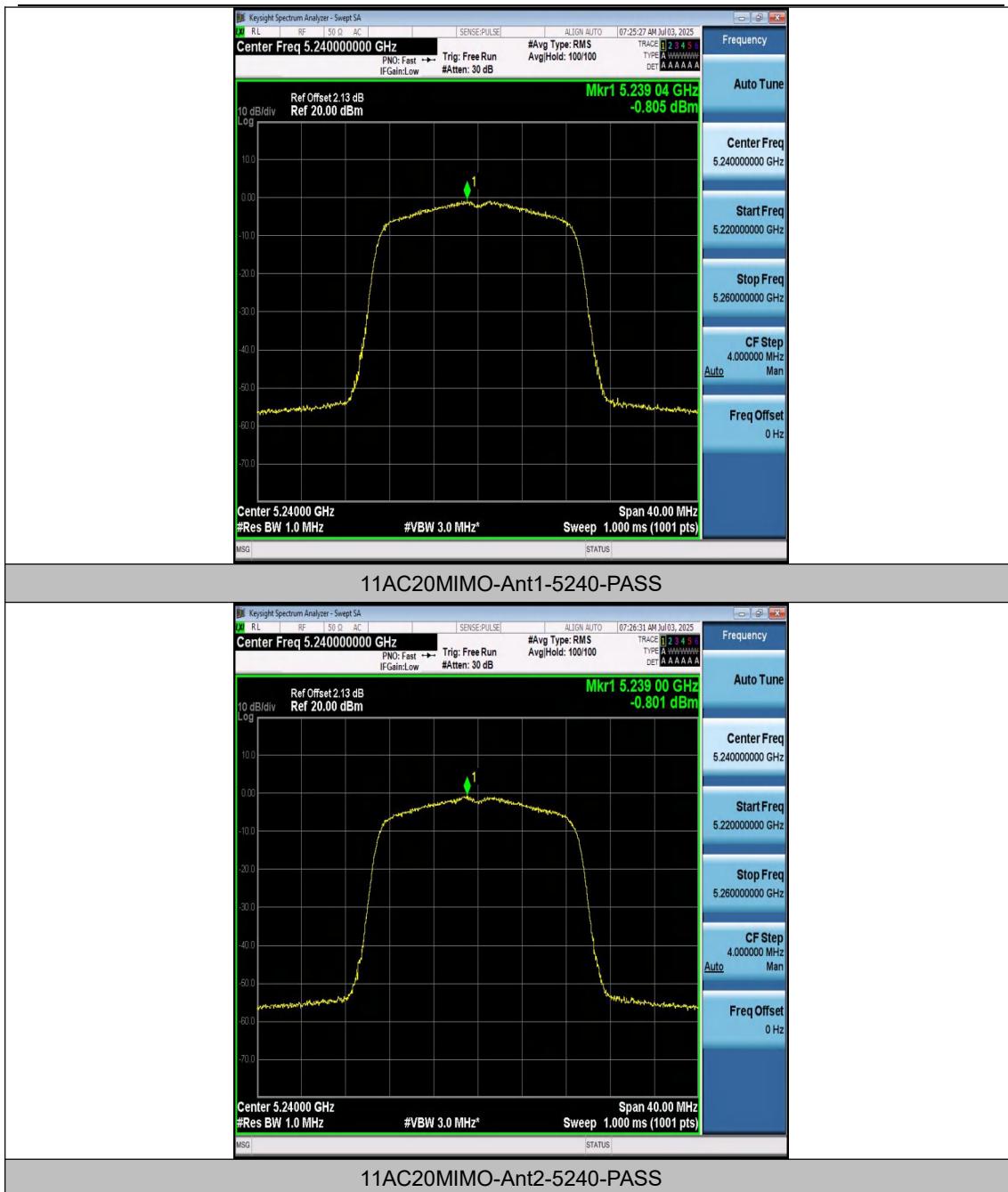
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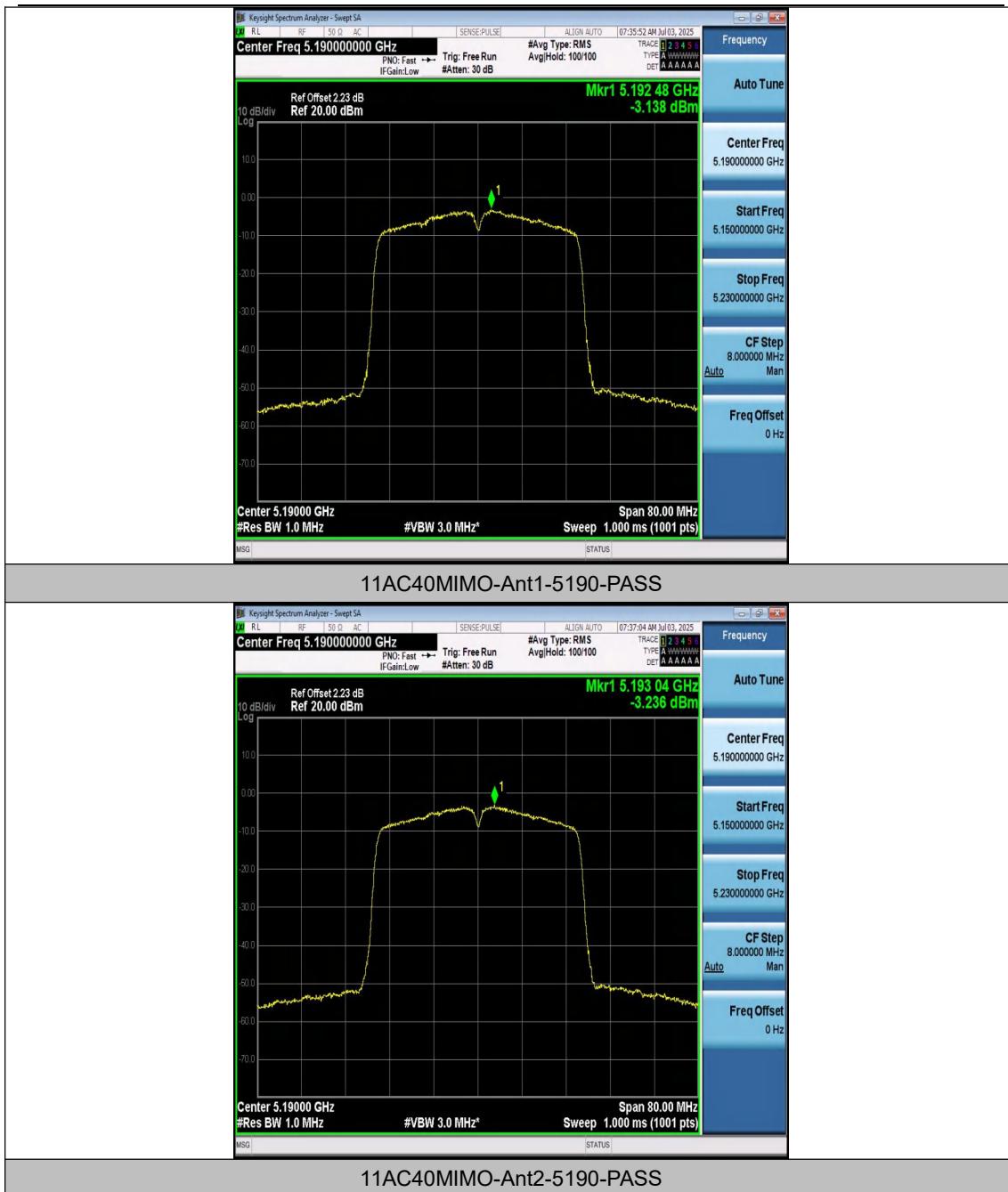
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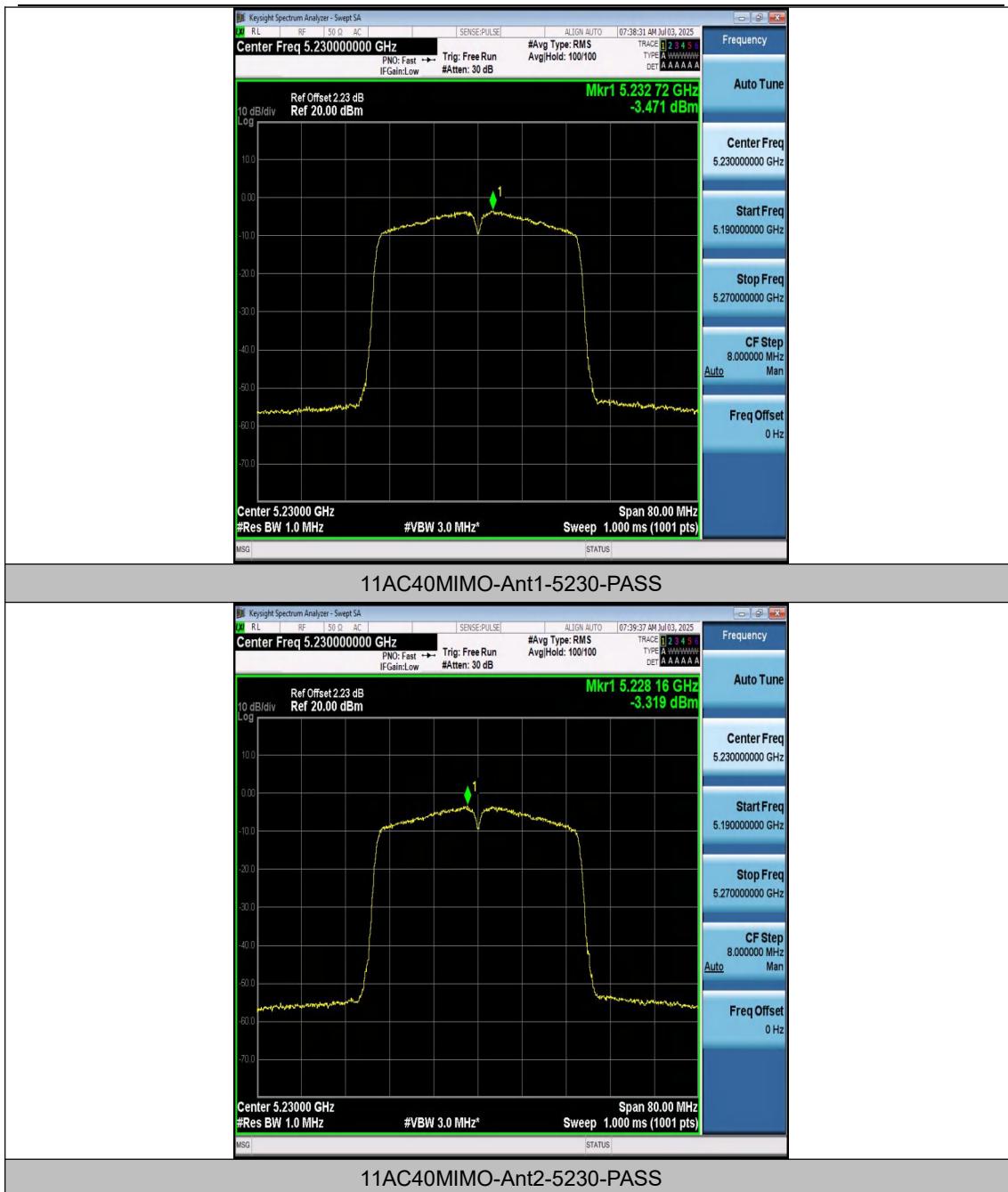
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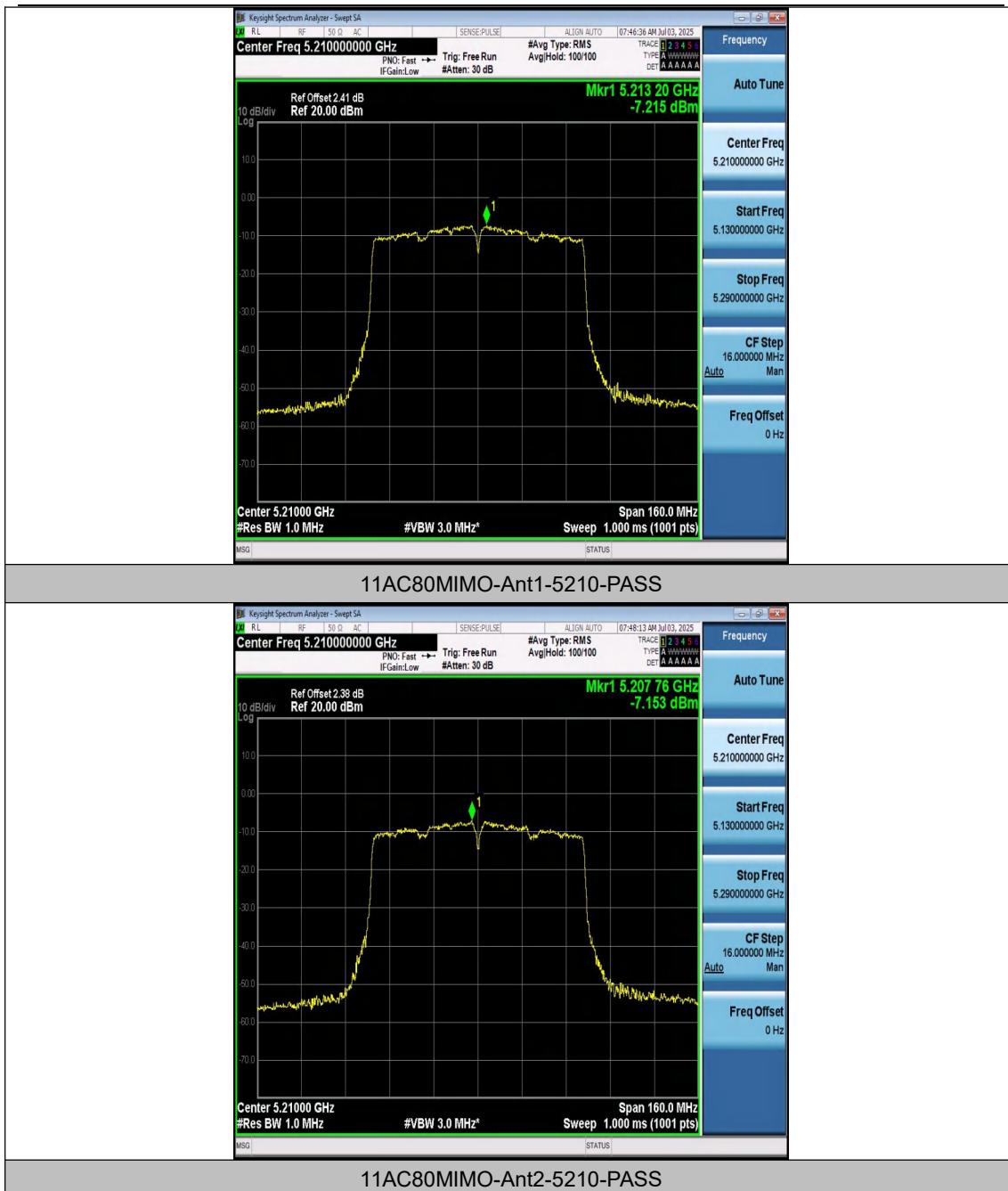


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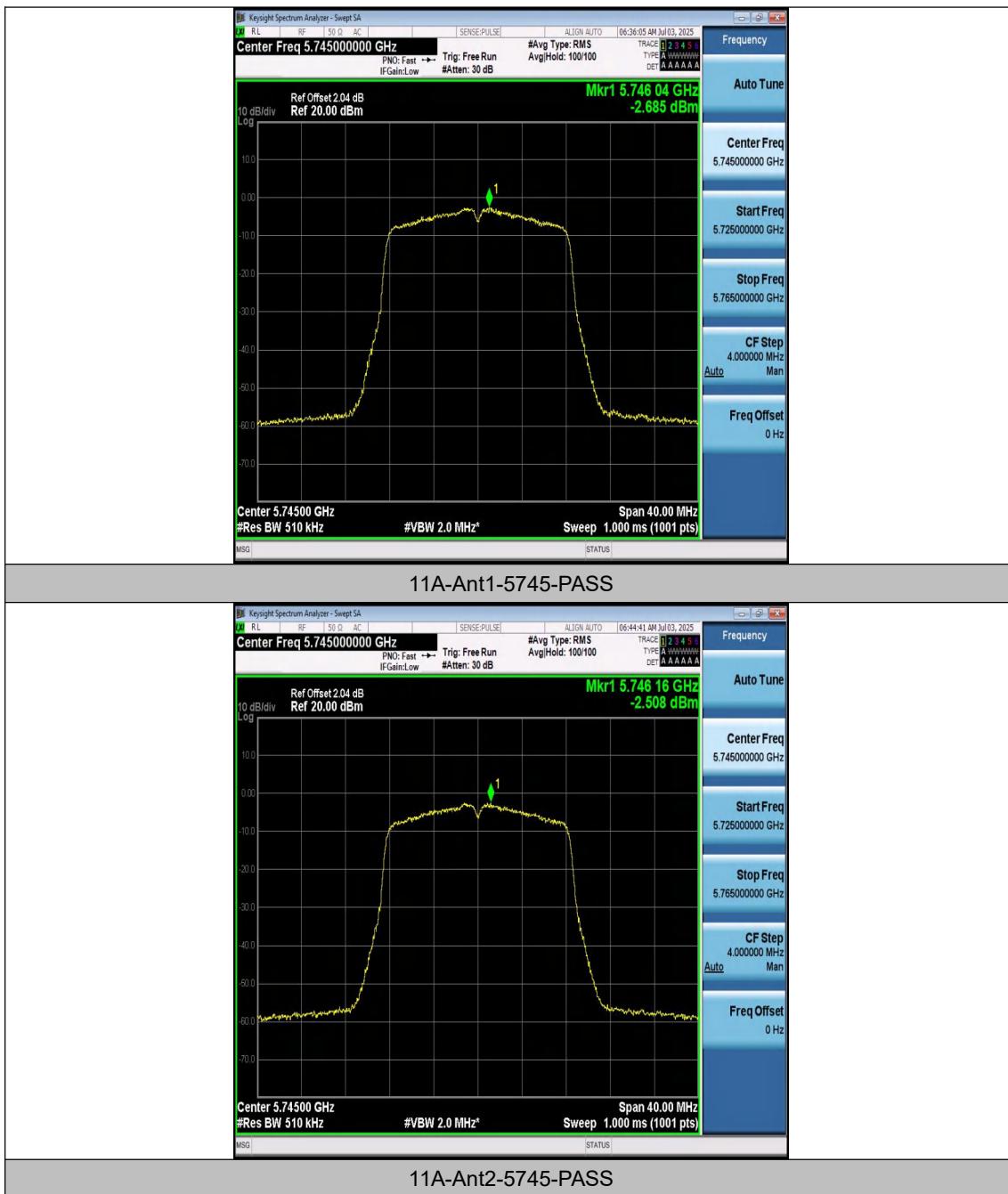


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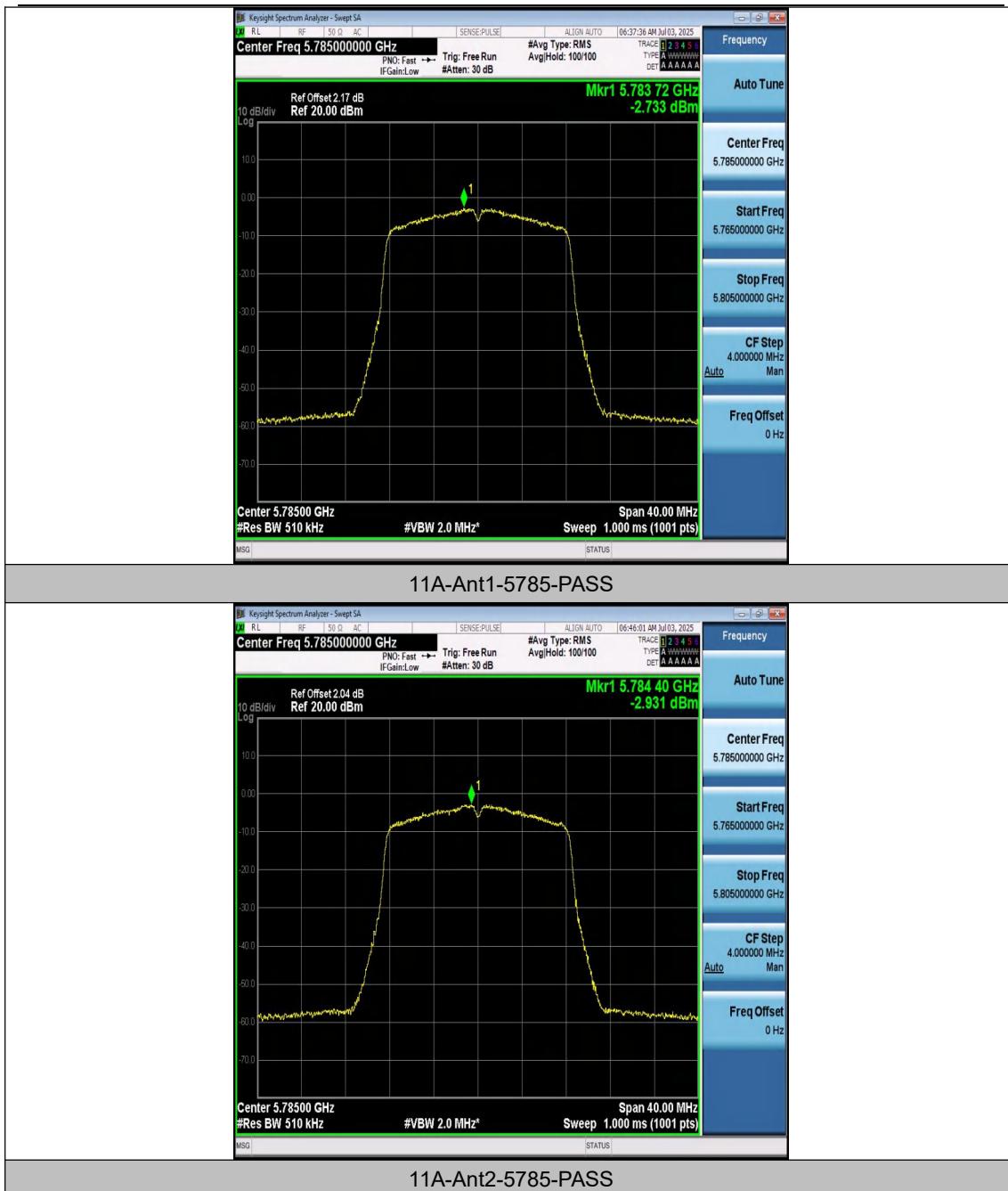
## Test GraphsB4



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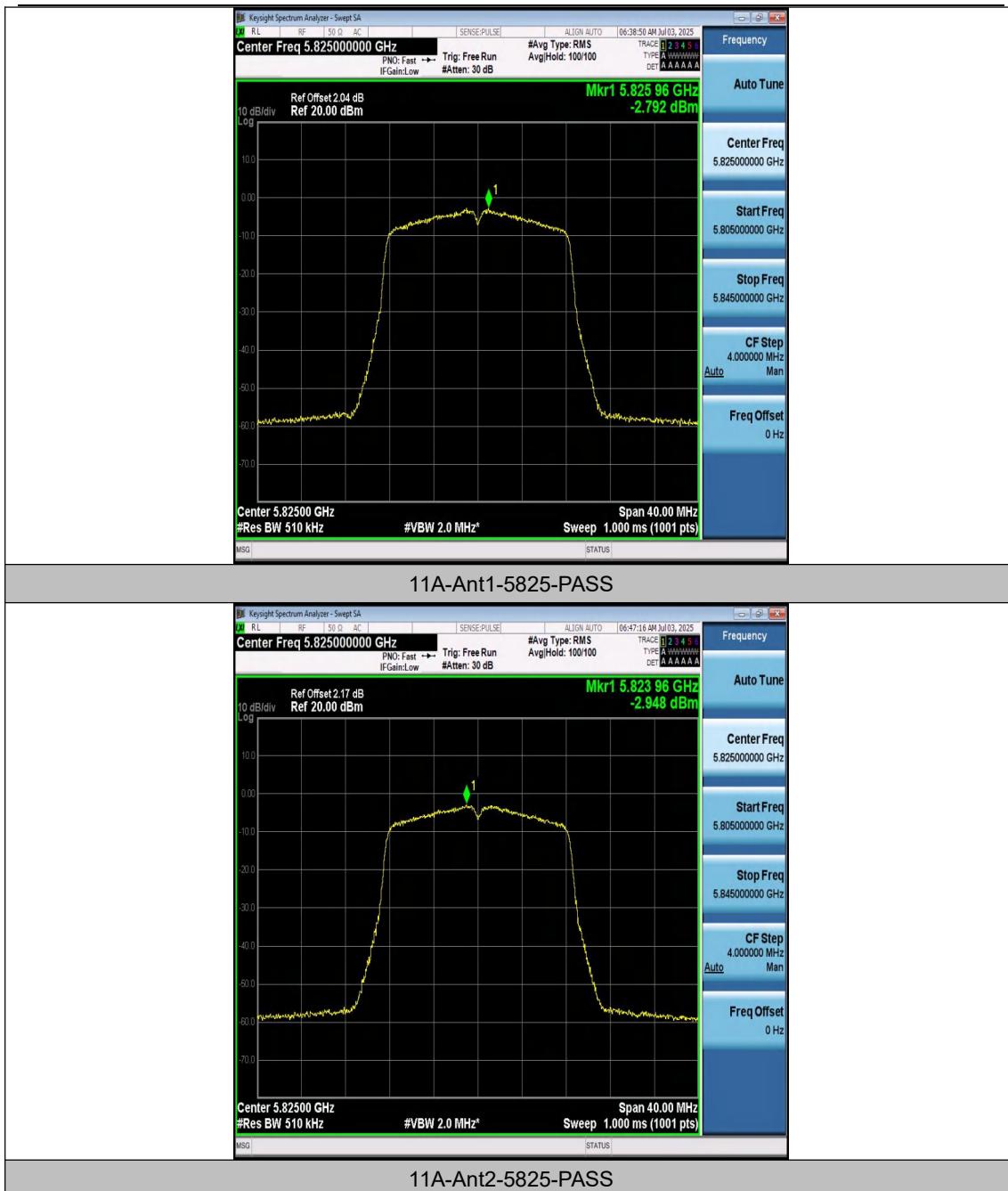
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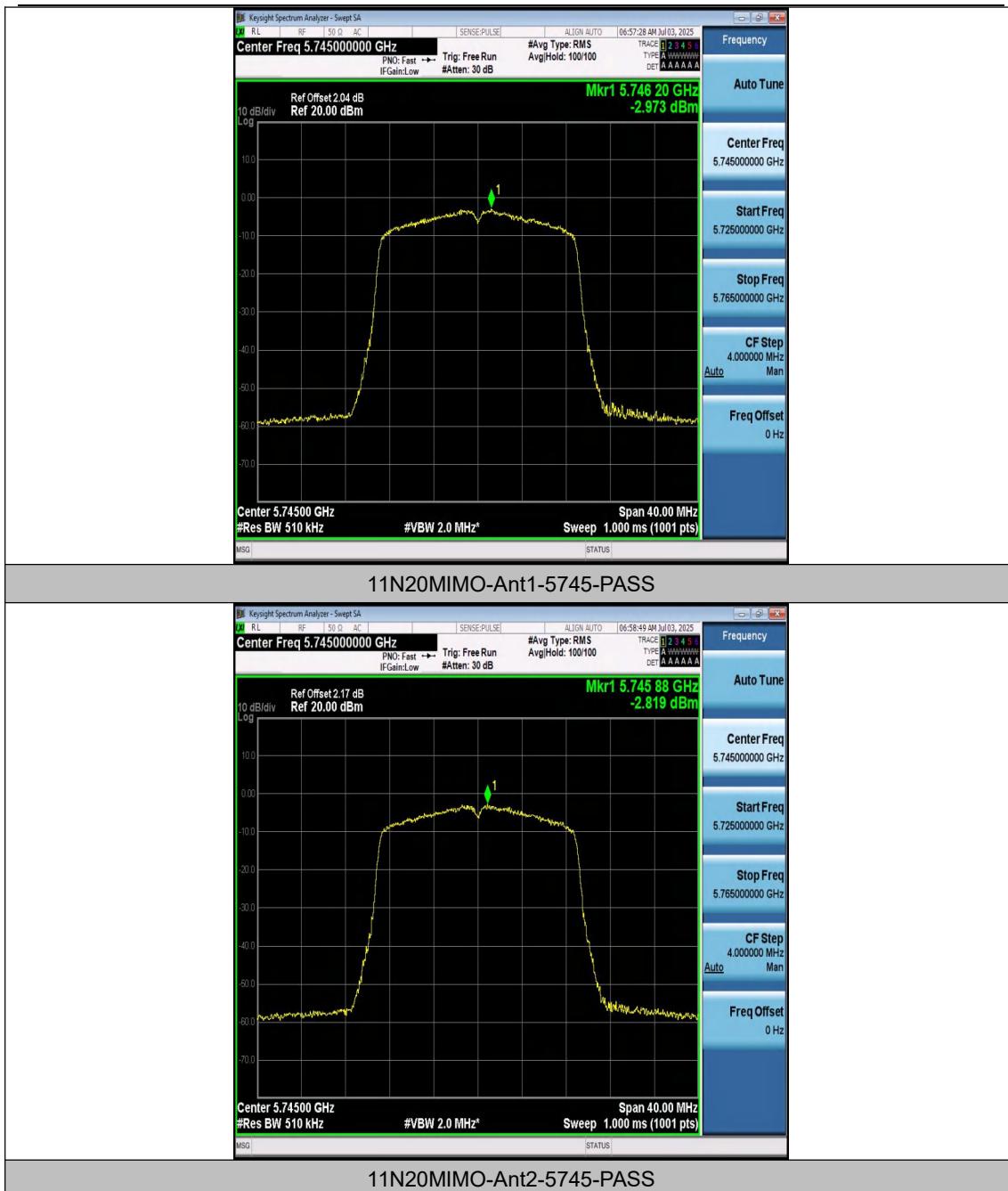


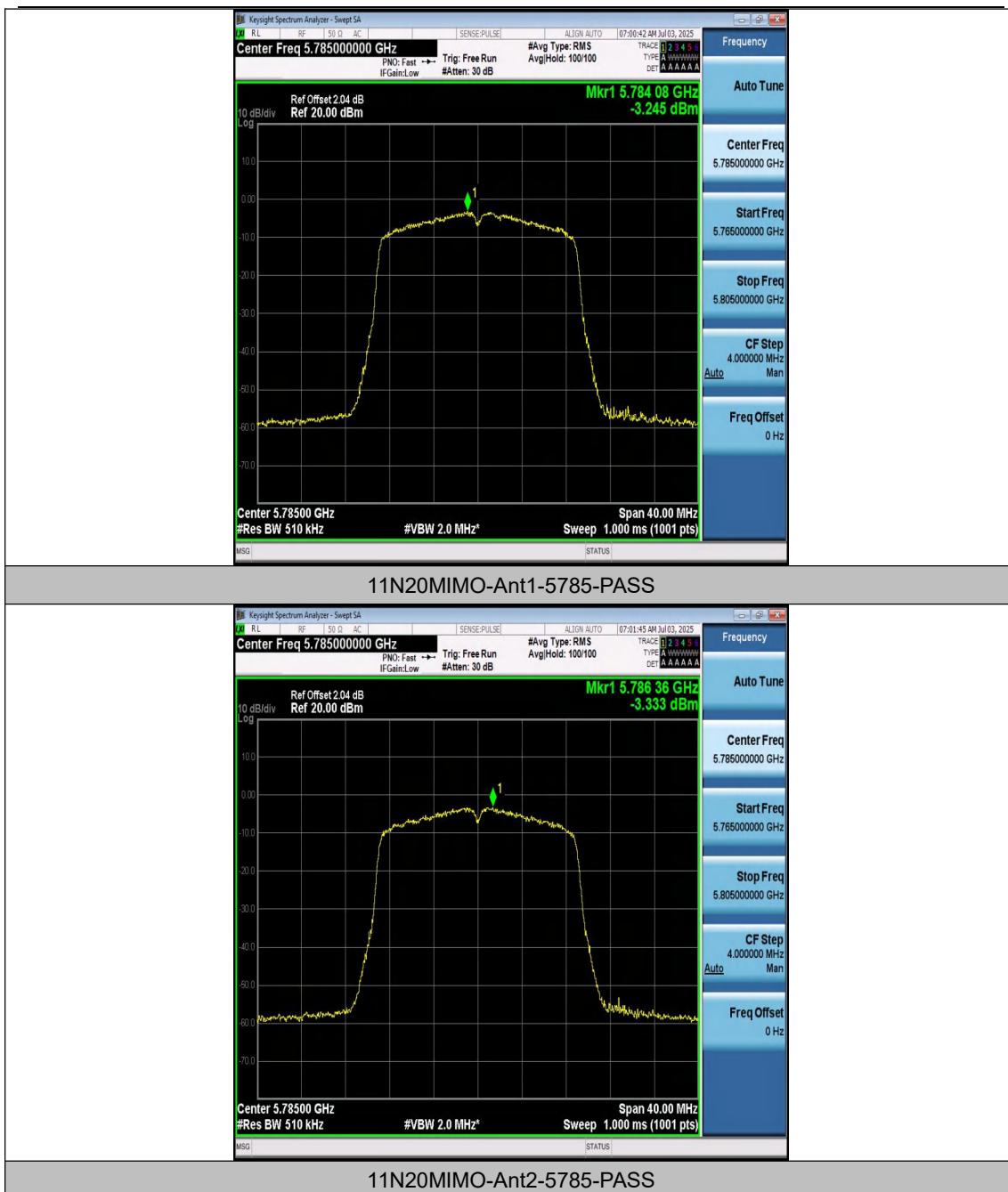
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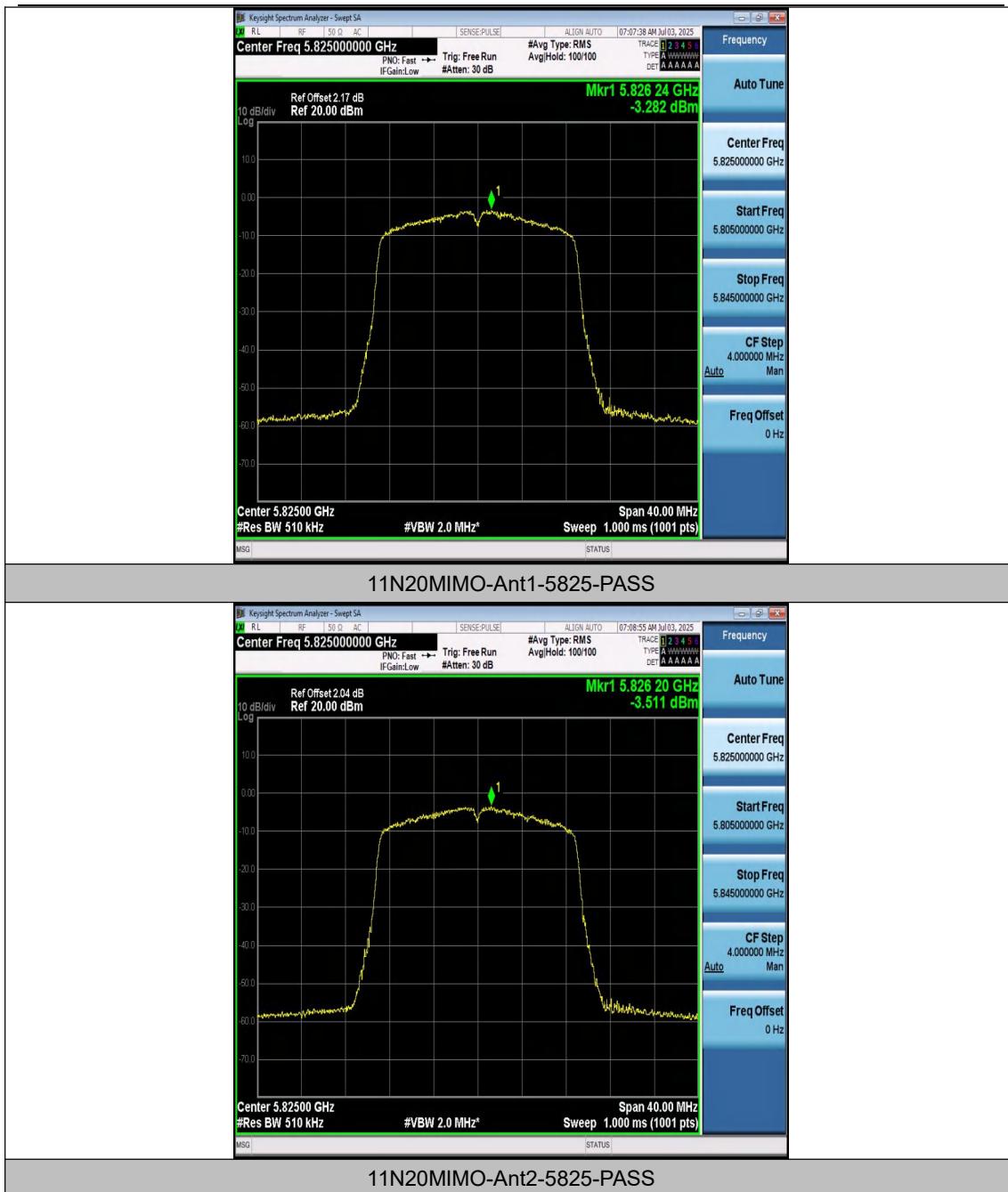
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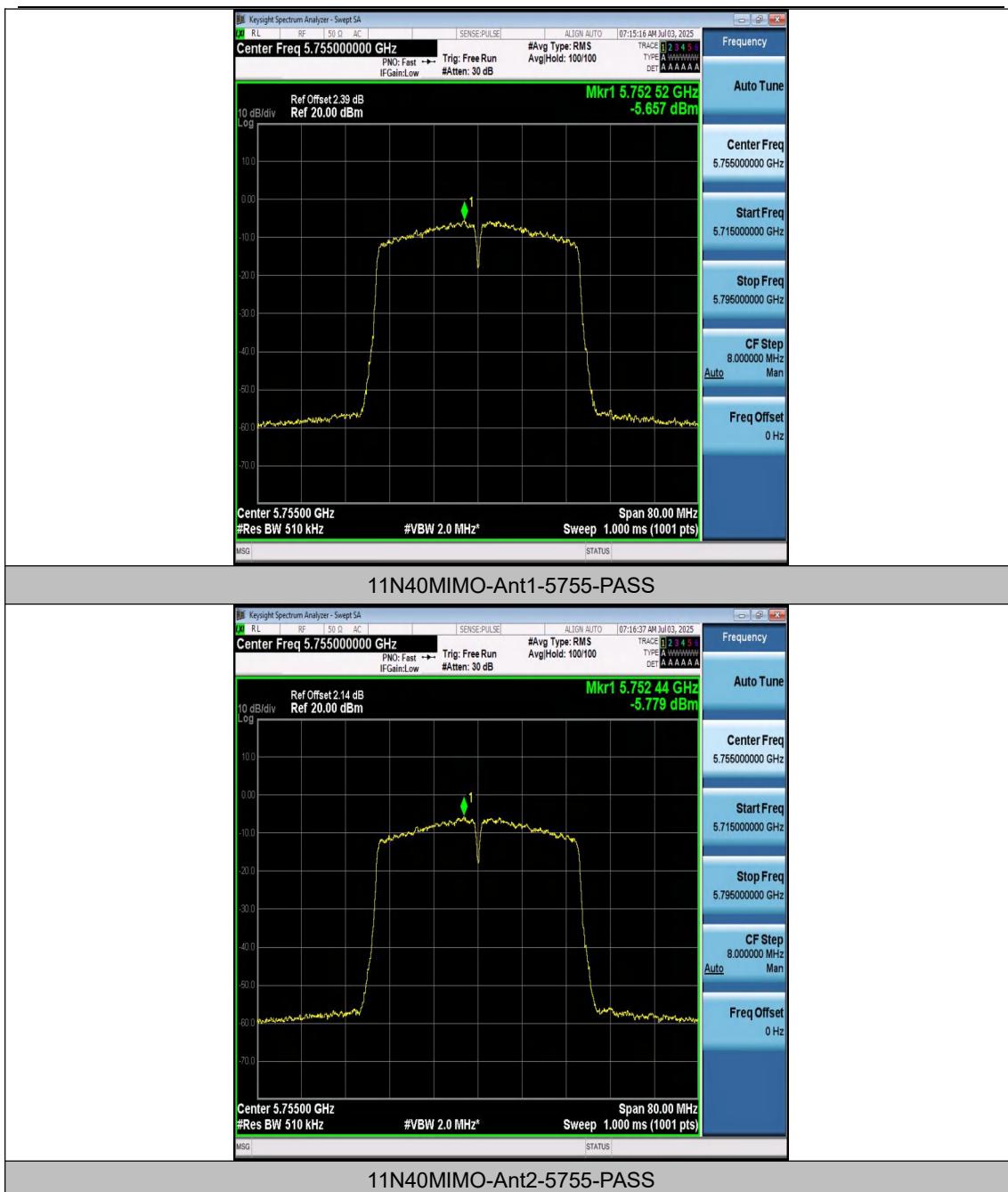




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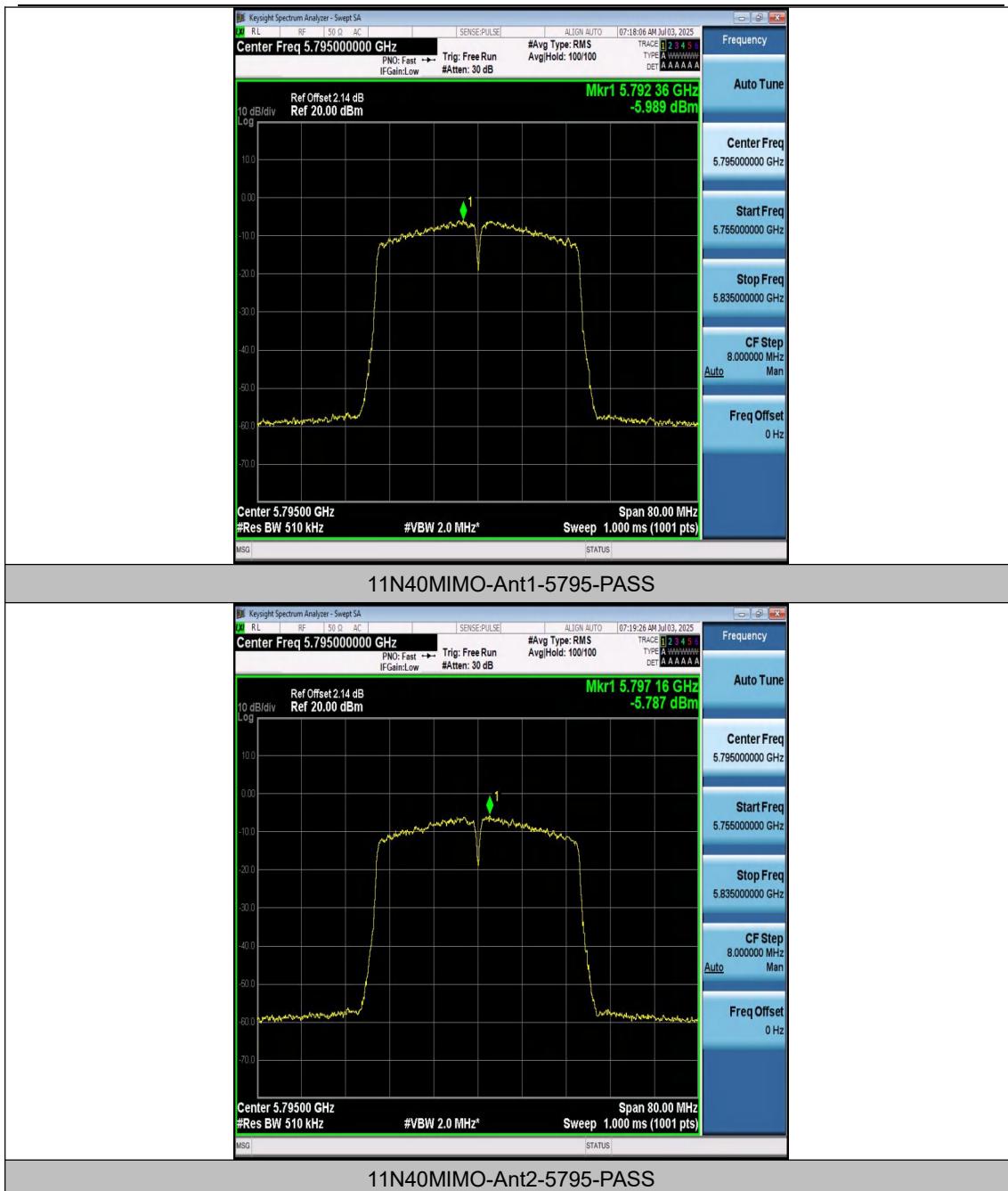
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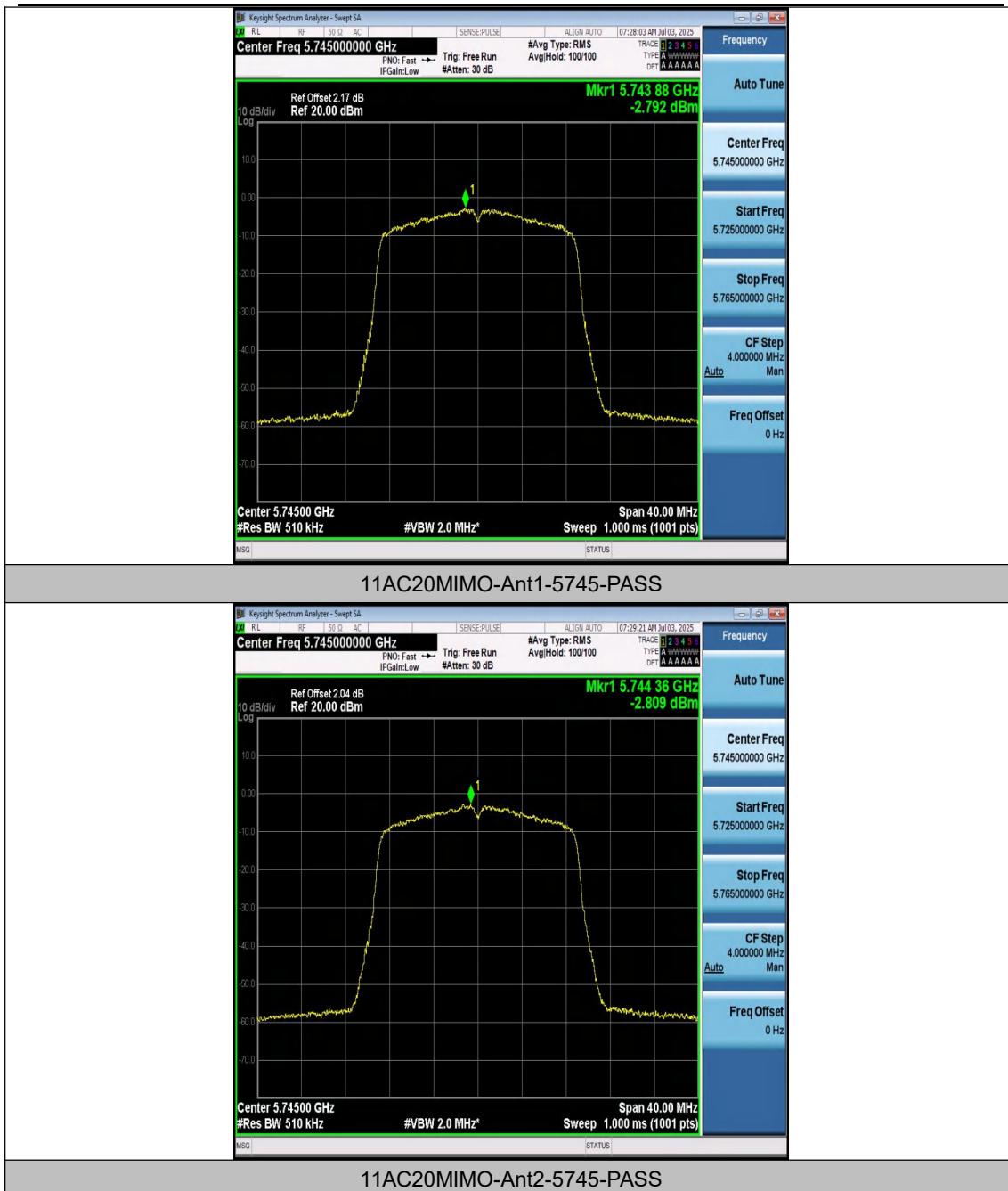
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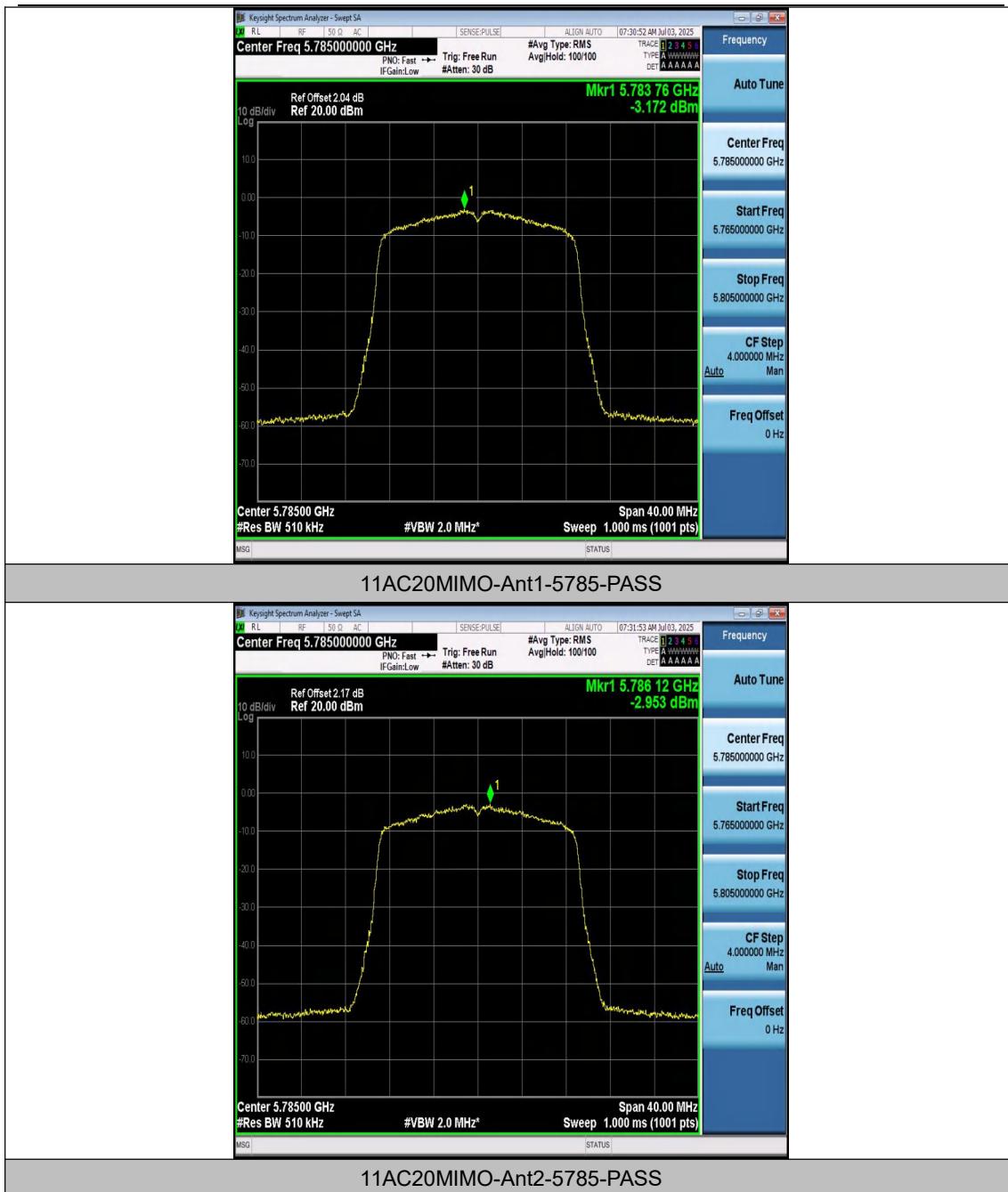
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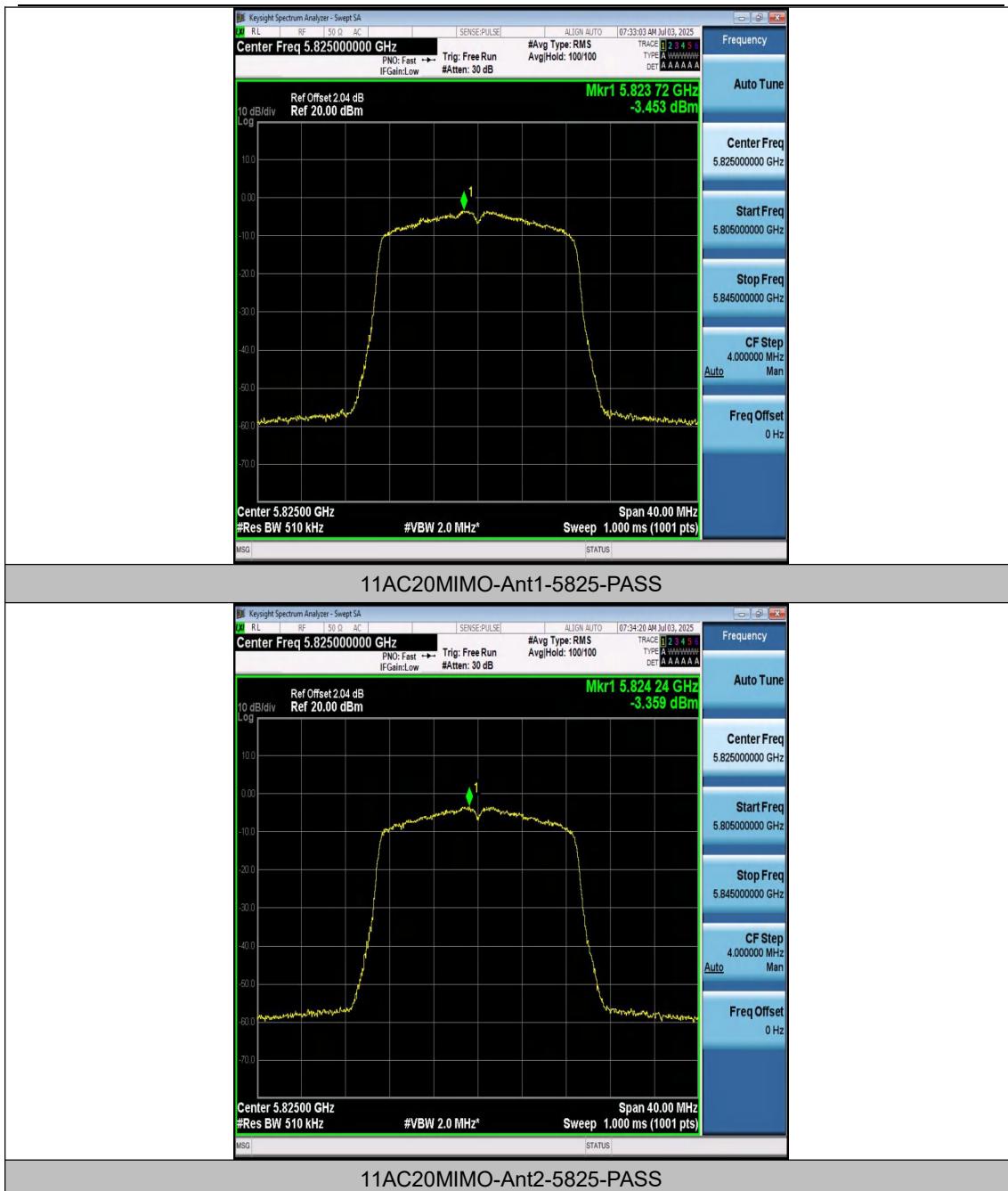
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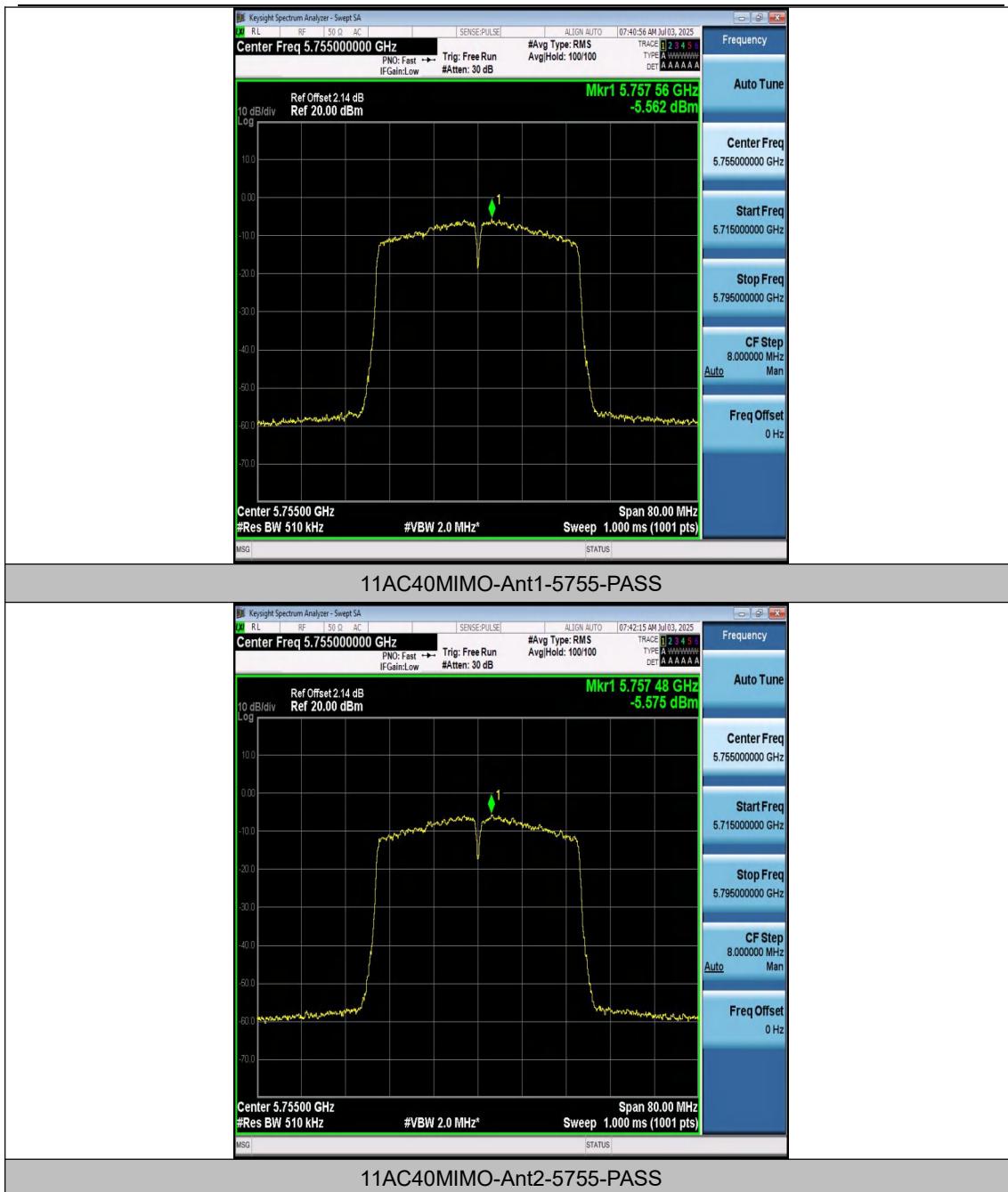
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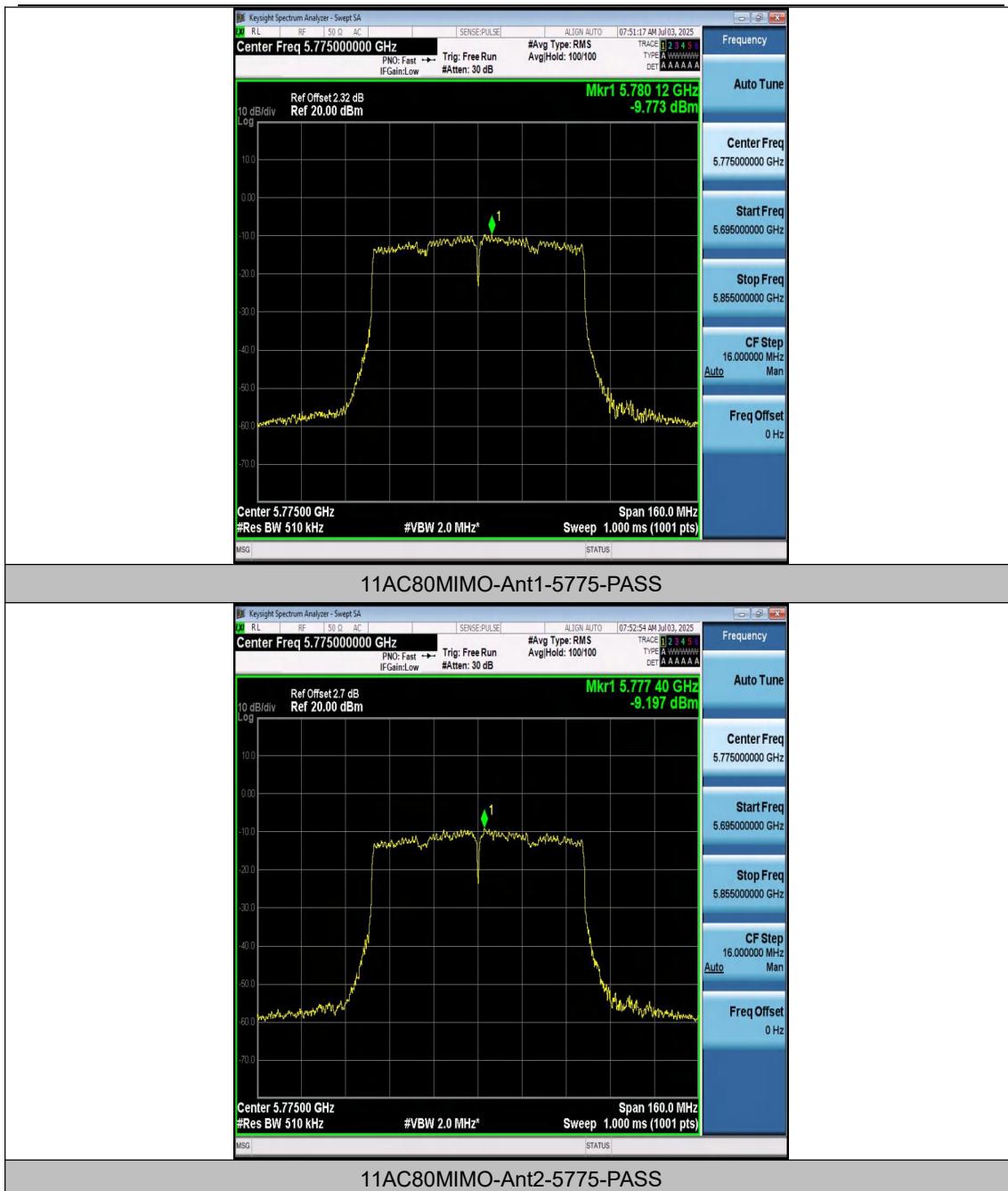


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## Appendix E: Band edge measurements

### Test Result B1

Test Mode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-45.62	≤-27	PASS
11A	Ant2	Low	5180	-46.78	≤-27	PASS
11A	Ant1	High	5240	-47.51	≤-27	PASS
11A	Ant2	High	5240	-47.69	≤-27	PASS
11N20MIMO	Ant1	Low	5180	-46.2	≤-27	PASS
11N20MIMO	Ant2	Low	5180	-46.47	≤-27	PASS
11N20MIMO	Ant1	High	5240	-47.09	≤-27	PASS
11N20MIMO	Ant2	High	5240	-46.56	≤-27	PASS
11N40MIMO	Ant1	Low	5190	-44.68	≤-27	PASS
11N40MIMO	Ant2	Low	5190	-45.25	≤-27	PASS
11N40MIMO	Ant1	High	5230	-46.26	≤-27	PASS
11N40MIMO	Ant2	High	5230	-47.27	≤-27	PASS
11AC20MIMO	Ant1	Low	5180	-45.71	≤-27	PASS
11AC20MIMO	Ant2	Low	5180	-46.55	≤-27	PASS
11AC20MIMO	Ant1	High	5240	-47.4	≤-27	PASS
11AC20MIMO	Ant2	High	5240	-47.57	≤-27	PASS
11AC40MIMO	Ant1	Low	5190	-46.17	≤-27	PASS
11AC40MIMO	Ant2	Low	5190	-45.9	≤-27	PASS
11AC40MIMO	Ant1	High	5230	-47.19	≤-27	PASS
11AC40MIMO	Ant2	High	5230	-47.5	≤-27	PASS
11AC80MIMO	Ant1	Low	5210	-38.49	≤-27	PASS
11AC80MIMO	Ant1	High	5210	-46.67	≤-27	PASS
11AC80MIMO	Ant2	Low	5210	-38.19	≤-27	PASS
11AC80MIMO	Ant2	High	5210	-47.06	≤-27	PASS

Note: The margin plus the antenna gain also meets the limit.

Remark:Regarding the spurious emissions from 30MHz to 26.5GHz, the cable loss have been set in the 'offset' of the Spectrum Analyzer during the test.

### Test Result B4

Test Mode	Antenna	Ch. Name	Frequency[MHz]	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5720~5725	-48.08	≤15.82	PASS

#### Shenzhen Anbotek Compliance Laboratory Limited

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