

## Appendix Test Data

Report No.:	18220WC10203702	Test Date:	2021.9.11
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	57 %
Pressure:	1012 hPa		

### Appendix A1: Emission Bandwidth

#### Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	24.760	5166.16 0	5190.920	---	PASS
	Ant2	5180	21.800	5169.04 0	5190.840	---	PASS
	Ant1	5200	23.320	5188.28 0	5211.600	---	PASS
	Ant2	5200	22.080	5188.92 0	5211.000	---	PASS
	Ant1	5240	27.760	5225.56 0	5253.320	---	PASS
	Ant2	5240	21.400	5229.20 0	5250.600	---	PASS
11N20SI SO	Ant1	5180	23.040	5168.92 0	5191.960	---	PASS
	Ant2	5180	22.160	5168.80 0	5190.960	---	PASS
	Ant1	5200	35.320	5183.00 0	5218.320	---	PASS
	Ant2	5200	22.080	5189.04 0	5211.120	---	PASS
	Ant1	5240	27.680	5224.12 0	5251.800	---	PASS
	Ant2	5240	22.320	5229.08 0	5251.400	---	PASS
11N40SI SO	Ant1	5190	68.080	5155.28 0	5223.360	---	PASS
	Ant2	5190	42.560	5168.96	5211.520	---	PASS

				0			
	Ant1	5230	66.000	5197.60 0	5263.600	---	PASS
	Ant2	5230	42.160	5209.20 0	5251.360	---	PASS
11AC20S ISO	Ant1	5180	24.680	5167.00 0	5191.680	---	PASS
	Ant2	5180	22.280	5168.80 0	5191.080	---	PASS
	Ant1	5200	25.240	5187.24 0	5212.480	---	PASS
	Ant2	5200	23.080	5189.16 0	5212.240	---	PASS
	Ant1	5240	27.040	5225.12 0	5252.160	---	PASS
	Ant2	5240	22.520	5228.60 0	5251.120	---	PASS
11AC40S ISO	Ant1	5190	42.000	5169.20 0	5211.200	---	PASS
	Ant2	5190	42.640	5168.96 0	5211.600	---	PASS
	Ant1	5230	77.760	5190.96 0	5268.720	---	PASS
	Ant2	5230	42.960	5208.96 0	5251.920	---	PASS
11AC80S ISO	Ant1	5210	96.000	5161.04 0	5257.040	---	PASS
	Ant2	5210	79.360	5170.64 0	5250.000	---	PASS

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## Test Graphs

11A\_Ant1\_5180



11A\_Ant2\_5180



11A\_Ant1\_5200

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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\_5200



11N20SISO\_Ant2\_5200



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11N20SISO\_Ant1\_5240



11N20SISO\_Ant2\_5240



11N40SISO\_Ant1\_5190

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11N40SISO\_Ant2\_5190



11N40SISO\_Ant1\_5230



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11N40SISO\_Ant2\_5230



11AC20SISO\_Ant1\_5180



11AC20SISO\_Ant2\_5180

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11AC20SISO\_Ant1\_5200



11AC20SISO\_Ant2\_5200



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11AC40SISO\_Ant2\_5190



11AC40SISO\_Ant1\_5230



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**11AC80SISO\_Ant1\_5210**
**11AC80SISO\_Ant2\_5210**

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## Appendix A2: Occupied channel bandwidth

### Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.075	5171.44 3	5188.518	---	PASS
	Ant2	5180	17.245	5171.35 0	5188.595	---	PASS
	Ant1	5200	17.315	5191.33 8	5208.653	---	PASS
	Ant2	5200	17.275	5191.29 2	5208.567	---	PASS
	Ant1	5240	17.336	5231.29 3	5248.629	---	PASS
	Ant2	5240	17.158	5231.37 2	5248.530	---	PASS
11N20SI SO	Ant1	5180	18.349	5170.83 3	5189.182	---	PASS
	Ant2	5180	18.195	5170.89 8	5189.093	---	PASS
	Ant1	5200	18.126	5190.96 1	5209.087	---	PASS
	Ant2	5200	18.253	5190.90 4	5209.157	---	PASS
	Ant1	5240	18.292	5230.82 1	5249.113	---	PASS
	Ant2	5240	18.214	5230.85 8	5249.072	---	PASS
11N40SI SO	Ant1	5190	36.360	5171.83 8	5208.198	---	PASS
	Ant2	5190	36.390	5171.84 7	5208.237	---	PASS
	Ant1	5230	36.372	5211.752	5248.124	---	PASS
	Ant2	5230	36.336	5211.859	5248.195	---	PASS
11AC20S ISO	Ant1	5180	18.155	5170.95 5	5189.110	---	PASS
	Ant2	5180	18.132	5170.911	5189.043	---	PASS
	Ant1	5200	18.052	5190.96 8	5209.020	---	PASS
	Ant2	5200	18.228	5190.85 2	5209.080	---	PASS

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	Ant1	5240	18.163	5230.89 6	5249.059	---	PASS
	Ant2	5240	18.226	5230.84 7	5249.073	---	PASS
11AC40S ISO	Ant1	5190	36.485	5171.81 5	5208.300	---	PASS
	Ant2	5190	36.505	5171.82 4	5208.329	---	PASS
	Ant1	5230	37.774	5210.89 5	5248.669	---	PASS
	Ant2	5230	36.661	5211.643	5248.304	---	PASS
11AC80S ISO	Ant1	5210	75.161	5172.42 9	5247.590	---	PASS
	Ant2	5210	75.174	5172.55 7	5247.731	---	PASS

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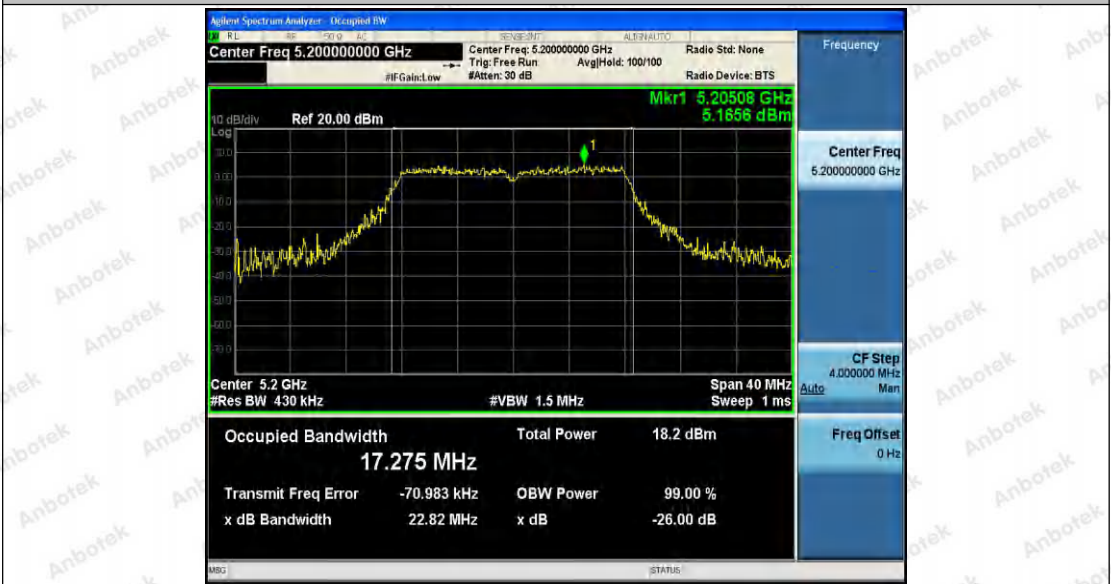


## Test Graphs





11A\_Ant2\_5200



11A\_Ant1\_5240



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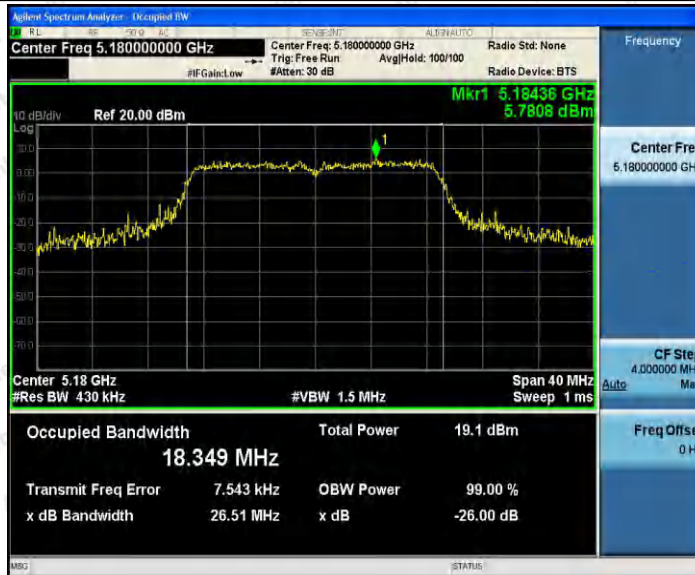
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11A\_Ant2\_5240



11N20SISO\_Ant1\_5180



11N20SISO\_Ant2\_5180

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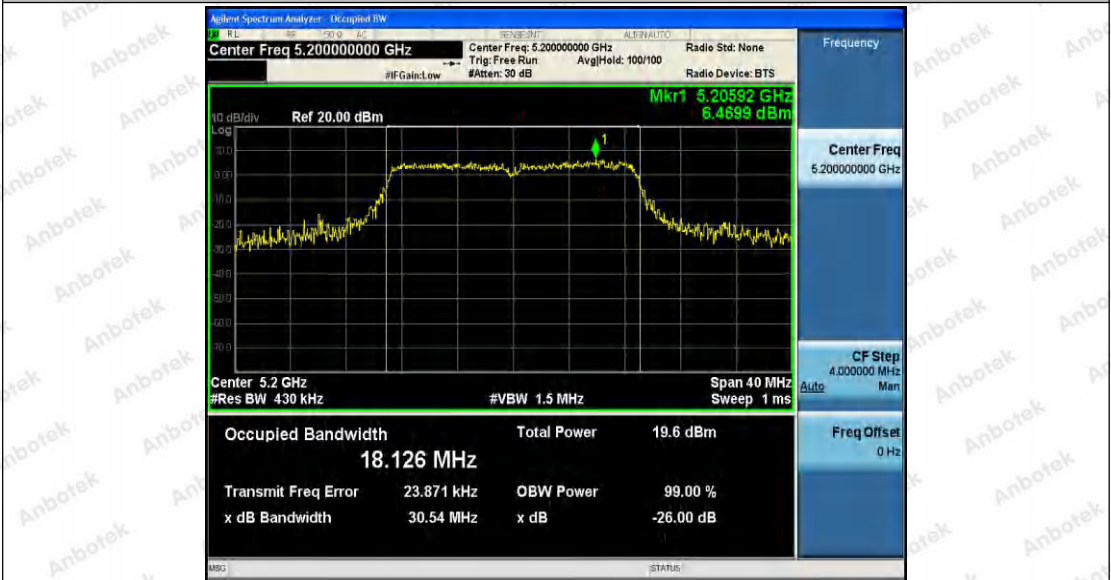
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11N20SISO\_Ant1\_5200



11N20SISO\_Ant2\_5200



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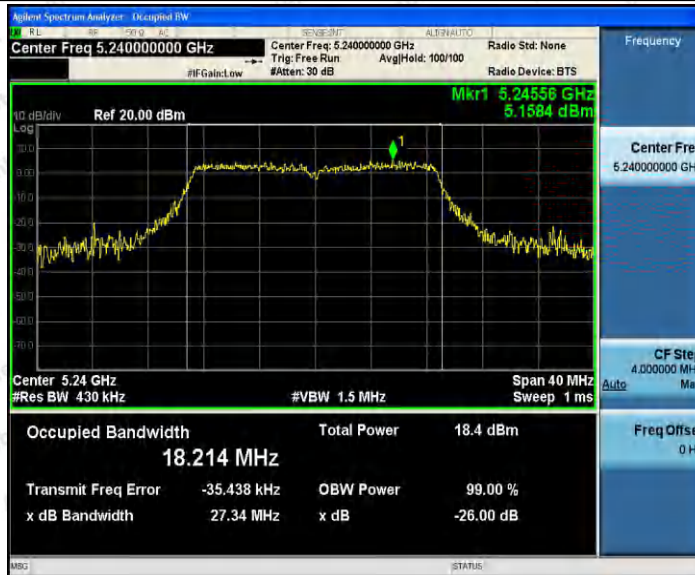
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11N20SISO\_Ant1\_5240



11N20SISO\_Ant2\_5240



11N40SISO\_Ant1\_5190

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11N40SISO\_Ant2\_5190



11N40SISO\_Ant1\_5230

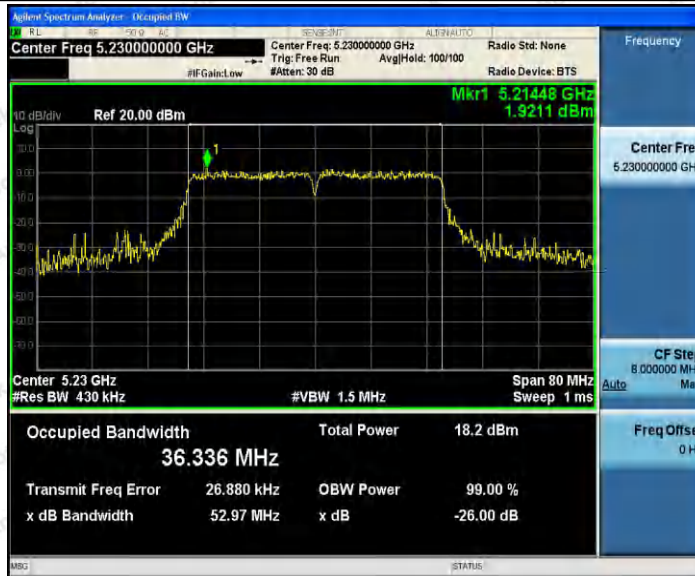


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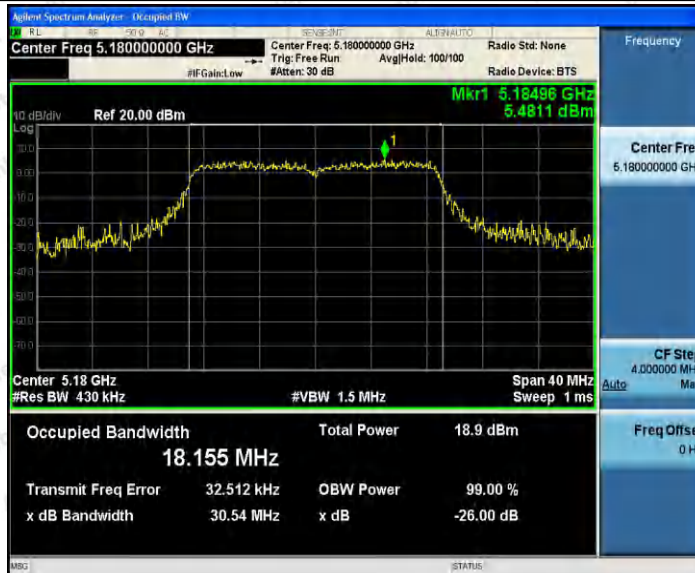
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11N40SISO\_Ant2\_5230



11AC20SISO\_Ant1\_5180



11AC20SISO\_Ant2\_5180

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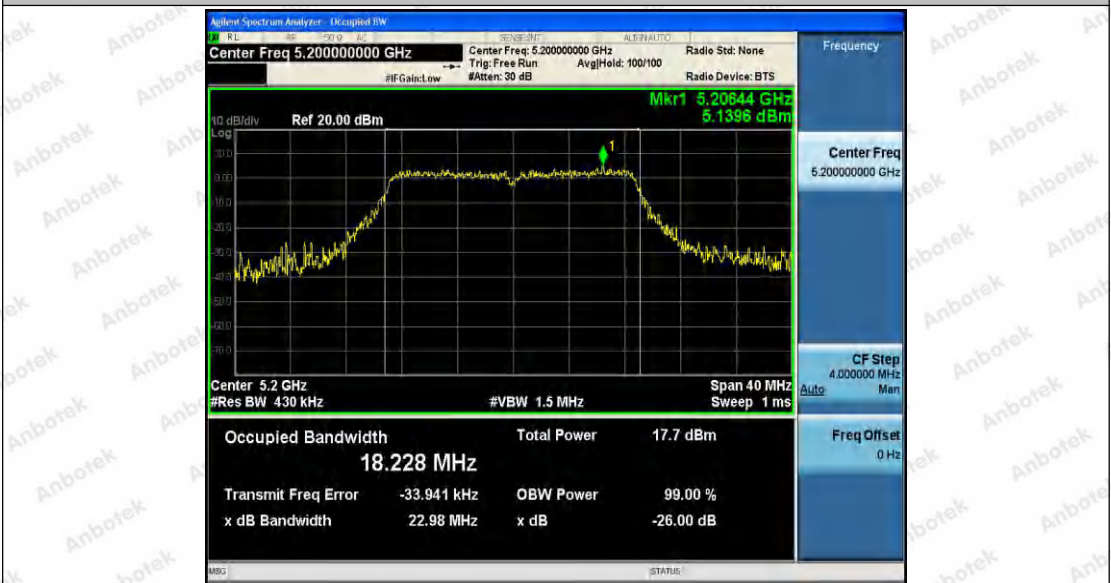
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11AC20SISO\_Ant1\_5200



11AC20SISO\_Ant2\_5200



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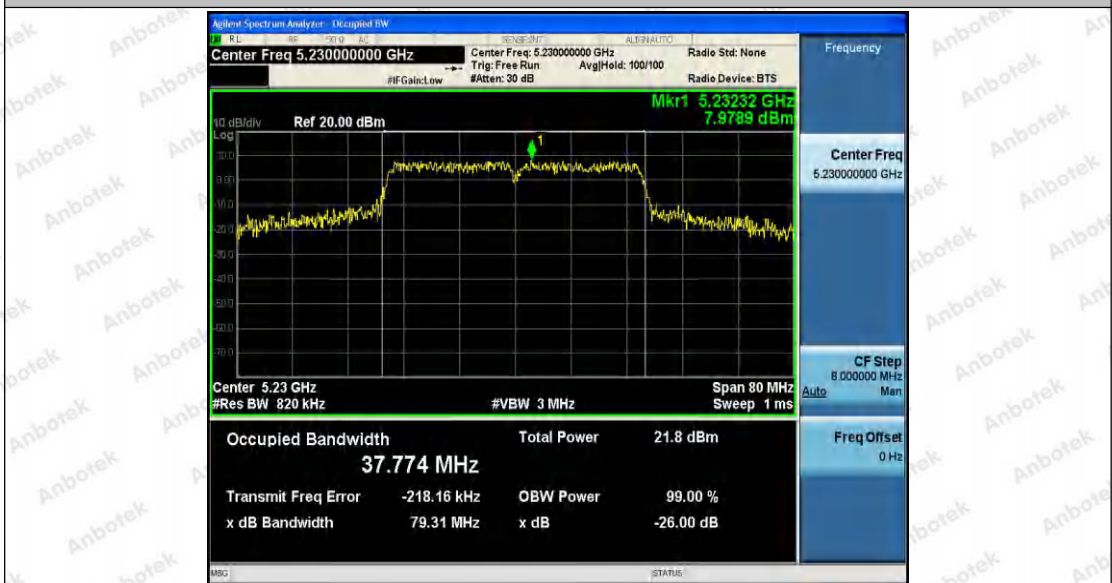
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11AC40SISO\_Ant2\_5190



11AC40SISO\_Ant1\_5230



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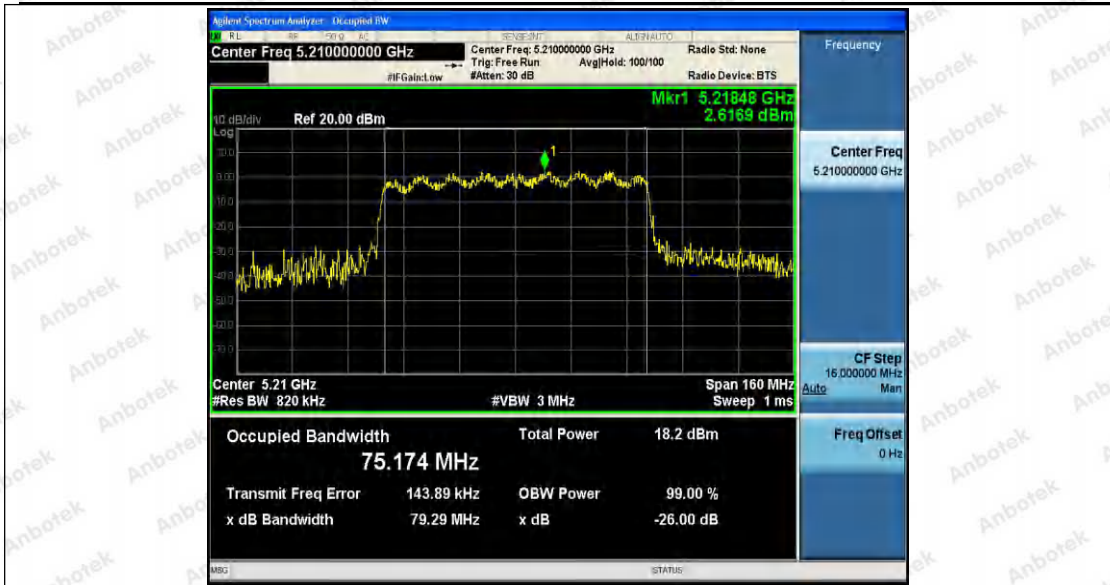
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## Appendix B: Maximum conducted output power

### Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	14.31	≤23.98	PASS
	Ant2	5180	12.34	≤23.98	PASS
	Ant1	5200	14.48	≤23.98	PASS
	Ant2	5200	12.19	≤23.98	PASS
	Ant1	5240	14.76	≤23.98	PASS
	Ant2	5240	13.11	≤23.98	PASS
11N20SISO	Ant1	5180	13.65	≤23.98	PASS
	Ant2	5180	12.73	≤23.98	PASS
	Ant1	5200	14.23	≤23.98	PASS
	Ant2	5200	13.38	≤23.98	PASS
	Ant1	5240	14.65	≤23.98	PASS
	Ant2	5240	13.38	≤23.98	PASS
11N40SISO	Ant1	5190	14.14	≤23.98	PASS
	Ant2	5190	11.89	≤23.98	PASS
	Ant1	5230	14.88	≤23.98	PASS
	Ant2	5230	12.01	≤23.98	PASS
11AC20SISO	Ant1	5180	13.89	≤23.98	PASS
	Ant2	5180	11.53	≤23.98	PASS
	Ant1	5200	14.42	≤23.98	PASS
	Ant2	5200	11.73	≤23.98	PASS
	Ant1	5240	13.98	≤23.98	PASS
	Ant2	5240	13.09	≤23.98	PASS
11AC40SISO	Ant1	5190	11.62	≤23.98	PASS
	Ant2	5190	10.89	≤23.98	PASS
	Ant1	5230	15.11	≤23.98	PASS
	Ant2	5230	12.60	≤23.98	PASS
11AC80SISO	Ant1	5210	13.47	≤23.98	PASS
	Ant2	5210	12.29	≤23.98	PASS

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**MIMO:**

TestMode	Channel	Result[dBm]	Limit[dBm]	Verdict
11N20	5180	16.22	≤23.98	PASS
	5200	16.84	≤23.98	PASS
	5240	17.07	≤23.98	PASS
11N40	5190	16.17	≤23.98	PASS
	5230	16.69	≤23.98	PASS
11AC20	5180	15.88	≤23.98	PASS
	5200	16.29	≤23.98	PASS
	5240	16.57	≤23.98	PASS
11AC40	5190	14.28	≤23.98	PASS
	5230	17.04	≤23.98	PASS
11AC80	5210	15.93	≤23.98	PASS

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

## Appendix C: Maximum power spectral density

### Test Result

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-11.57	≤11	PASS
	Ant2	5180	-12.94	≤11	PASS
	Ant1	5200	-11.33	≤11	PASS
	Ant2	5200	-11.5	≤11	PASS
	Ant1	5240	-11.31	≤11	PASS
	Ant2	5240	-12.51	≤11	PASS
11N20SISO	Ant1	5180	-11.97	≤11	PASS
	Ant2	5180	-13.74	≤11	PASS
	Ant1	5200	-10.57	≤11	PASS
	Ant2	5200	-13.14	≤11	PASS
	Ant1	5240	-11.54	≤11	PASS
	Ant2	5240	-12.25	≤11	PASS
11N40SISO	Ant1	5190	-15.03	≤11	PASS
	Ant2	5190	-15.06	≤11	PASS
	Ant1	5230	-15.3	≤11	PASS
	Ant2	5230	-17.54	≤11	PASS
11AC20SISO	Ant1	5180	-11.9	≤11	PASS
	Ant2	5180	-13.63	≤11	PASS
	Ant1	5200	-11.79	≤11	PASS
	Ant2	5200	-13.34	≤11	PASS
	Ant1	5240	-12.35	≤11	PASS
	Ant2	5240	-13.35	≤11	PASS
11AC40SISO	Ant1	5190	-12.18	≤11	PASS
	Ant2	5190	-12.03	≤11	PASS
	Ant1	5230	-12.27	≤11	PASS
	Ant2	5230	-15.65	≤11	PASS
11AC80SISO	Ant1	5210	-15.62	≤11	PASS
	Ant2	5210	-18.53	≤11	PASS

**MIMO:**

TestMode	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11N20	5180	-9.76	≤11	PASS
	5200	-8.66	≤11	PASS
	5240	-8.87	≤11	PASS
11N40	5190	-12.03	≤11	PASS
	5230	-13.27	≤11	PASS
11AC20	5180	-9.67	≤11	PASS
	5200	-9.49	≤11	PASS
	5240	-9.81	≤11	PASS
11AC40	5190	-9.09	≤11	PASS
	5230	-10.63	≤11	PASS
	5795	-12.08	≤30	PASS
11AC80	5210	-13.83	≤11	PASS

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

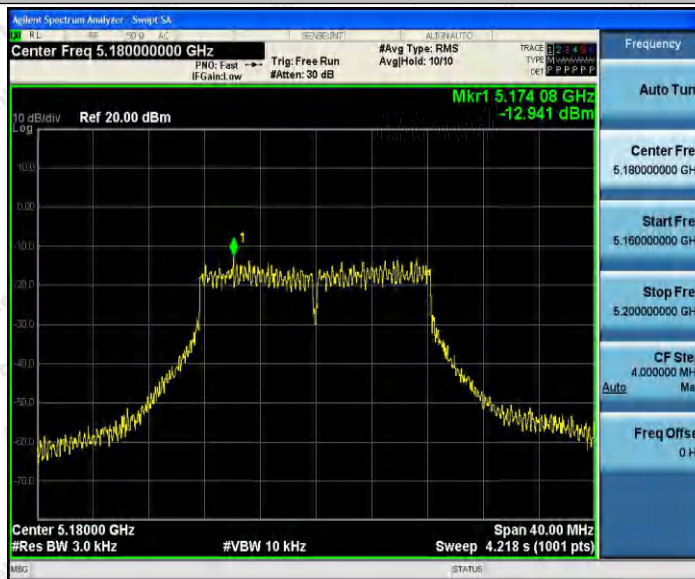


## Test Graphs

11A\_Ant1\_5180



11A\_Ant2\_5180



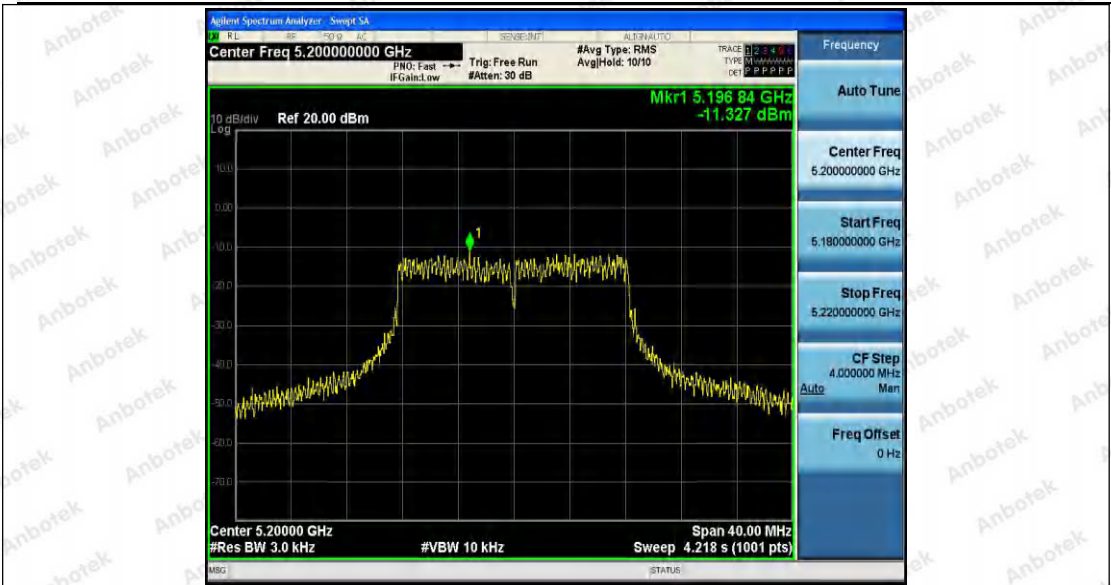
11A\_Ant1\_5200

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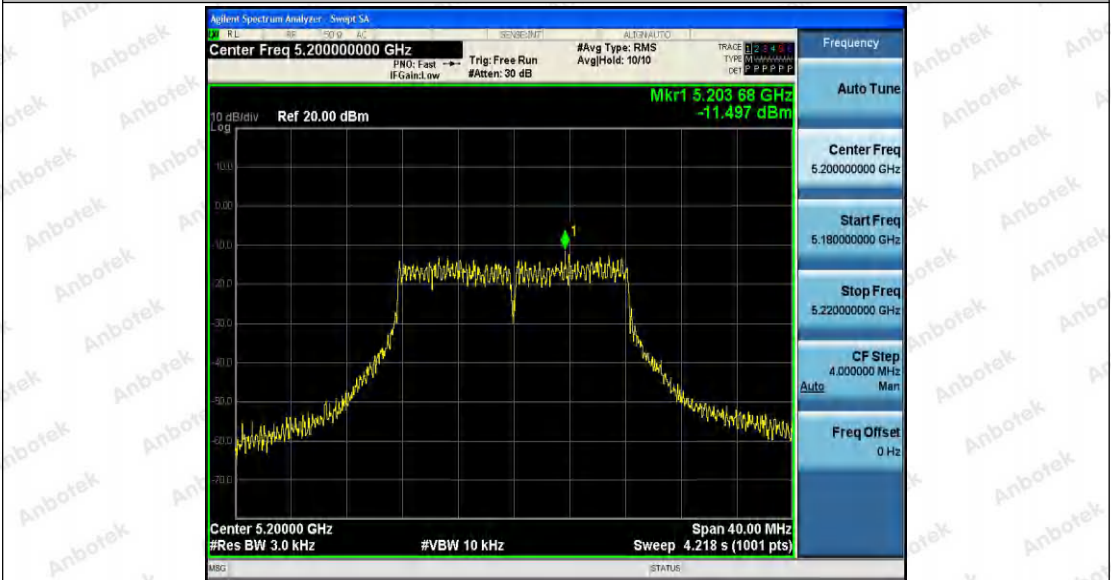
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Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

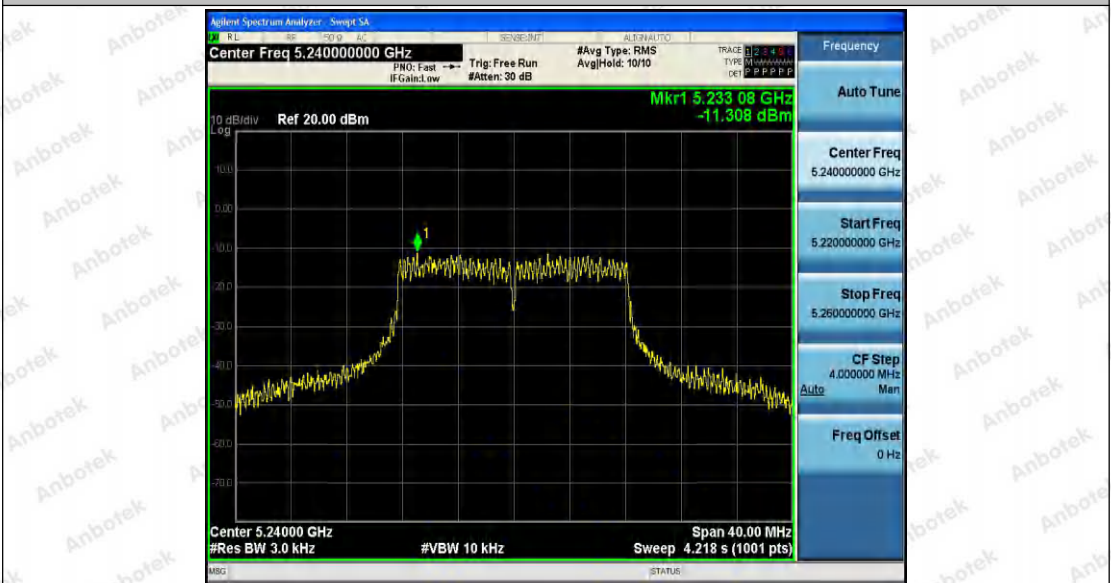
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11A\_Ant2\_5200



11A\_Ant1\_5240



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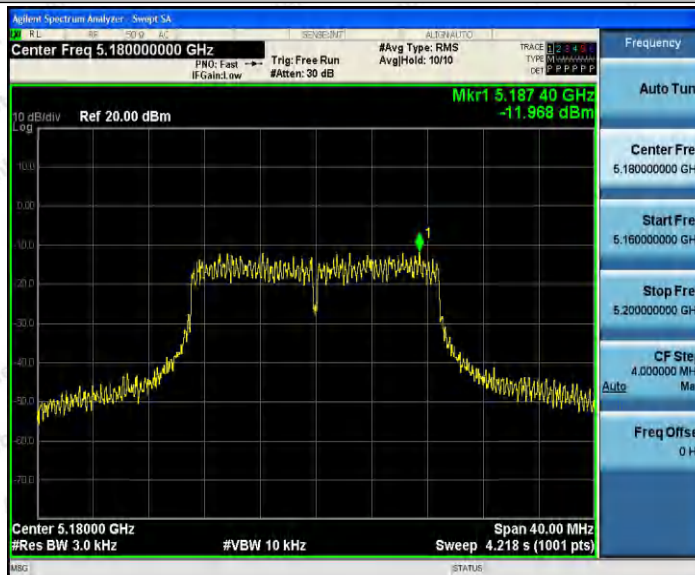
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11A\_Ant2\_5240



11N20SISO\_Ant1\_5180



11N20SISO\_Ant2\_5180

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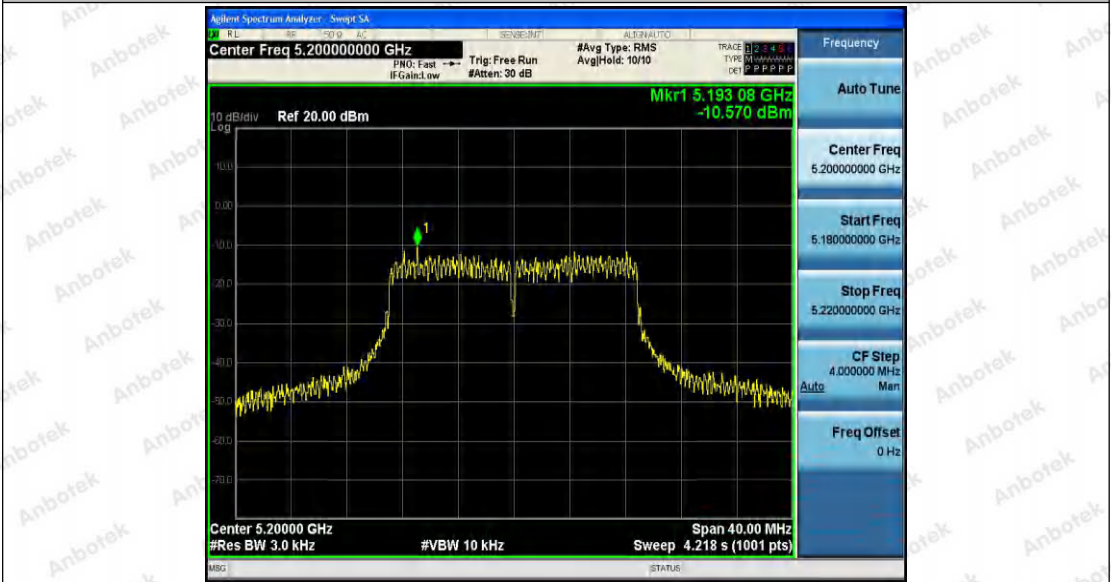
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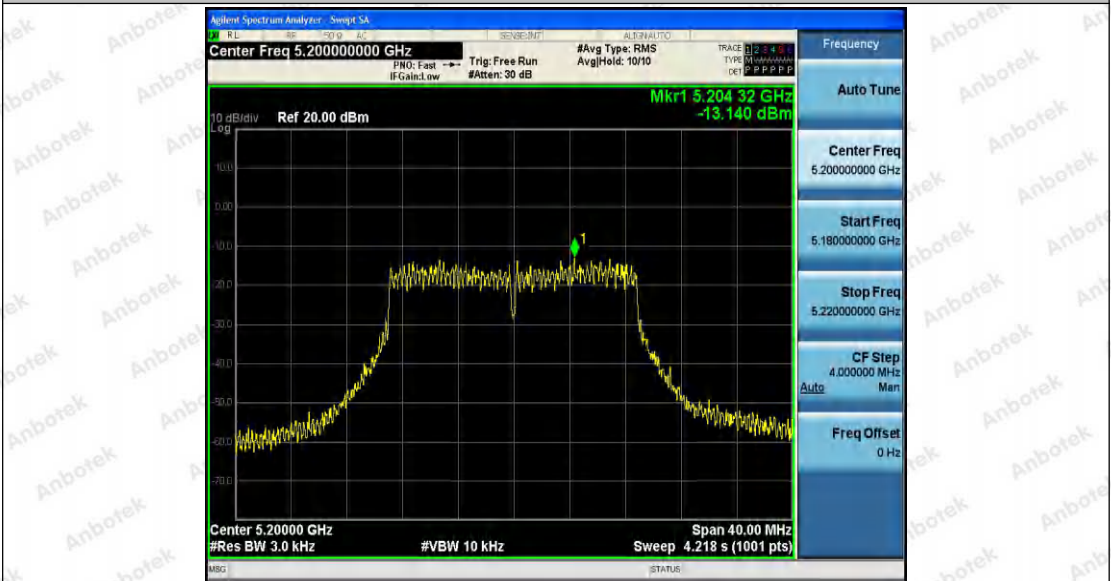
Hotline  
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11N20SISO\_Ant1\_5200



11N20SISO\_Ant2\_5200

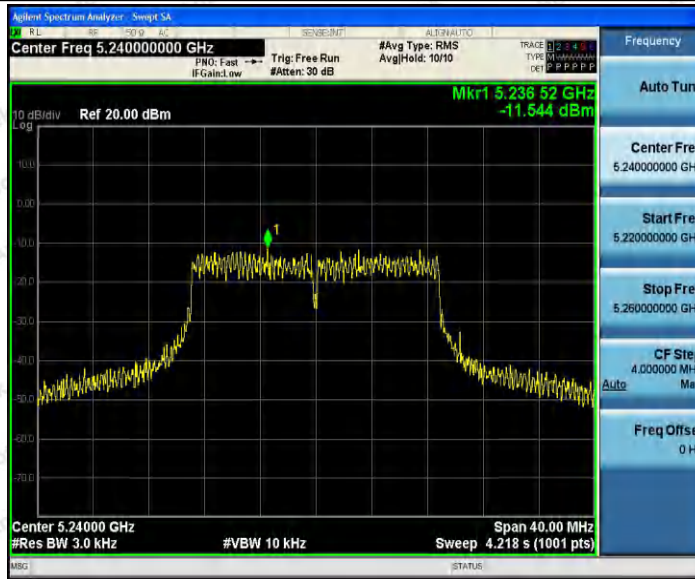


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11N20SISO\_Ant1\_5240



11N20SISO\_Ant2\_5240

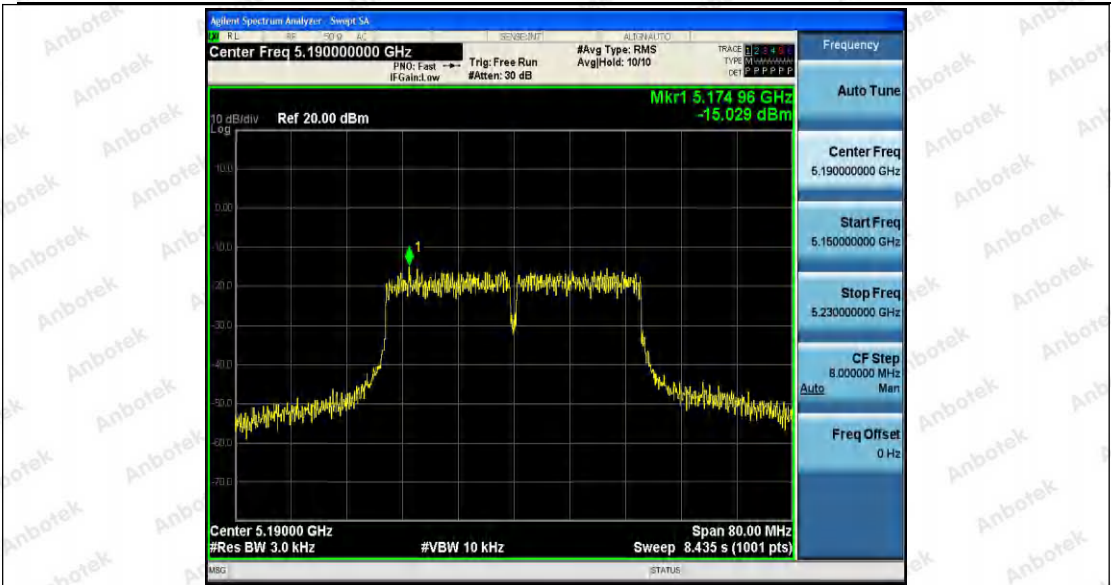


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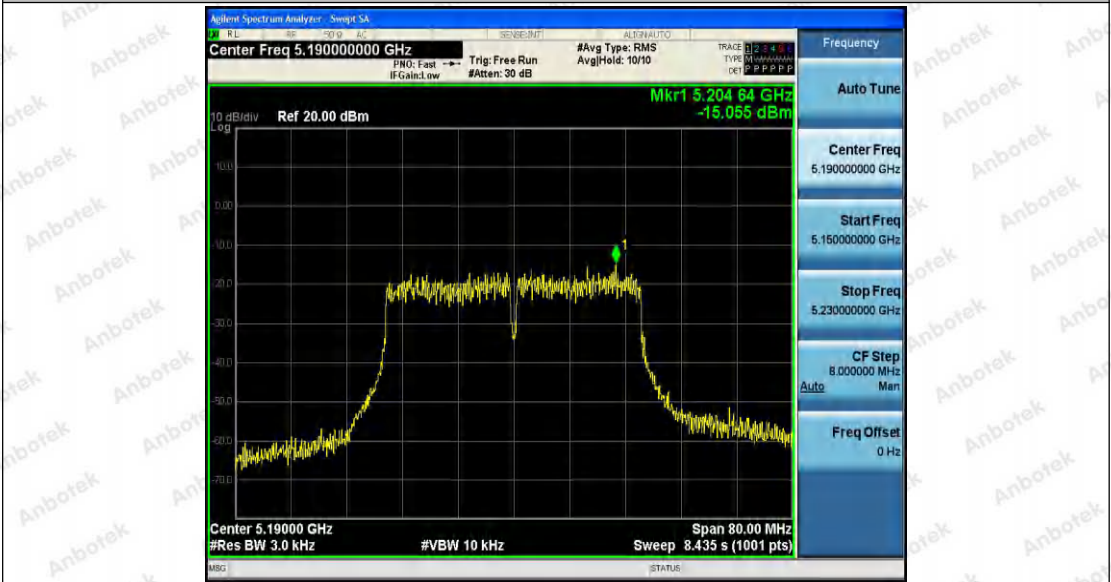
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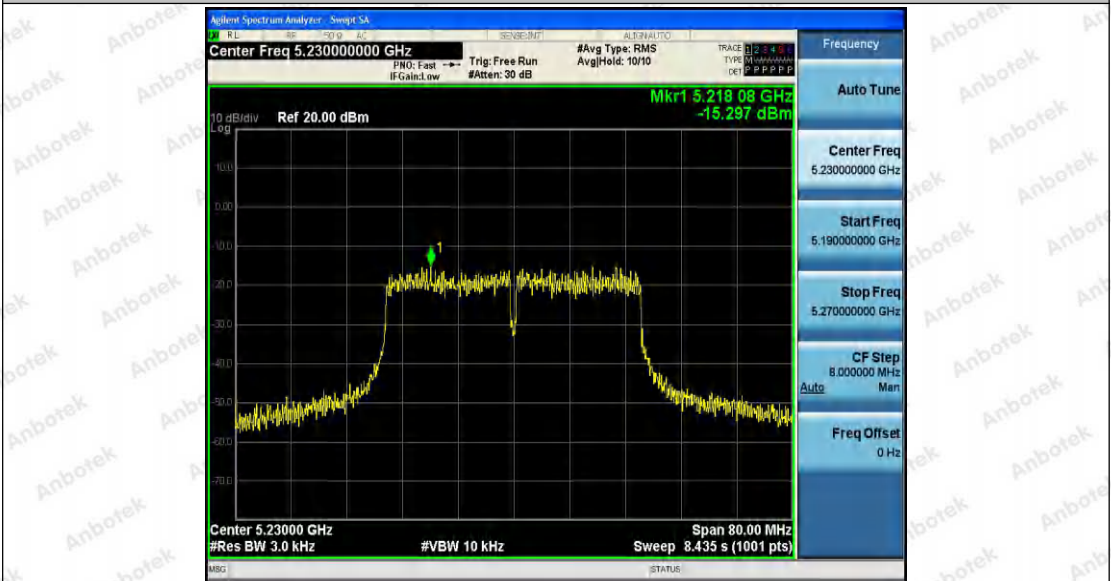
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11N40SISO\_Ant2\_5190



11N40SISO\_Ant1\_5230



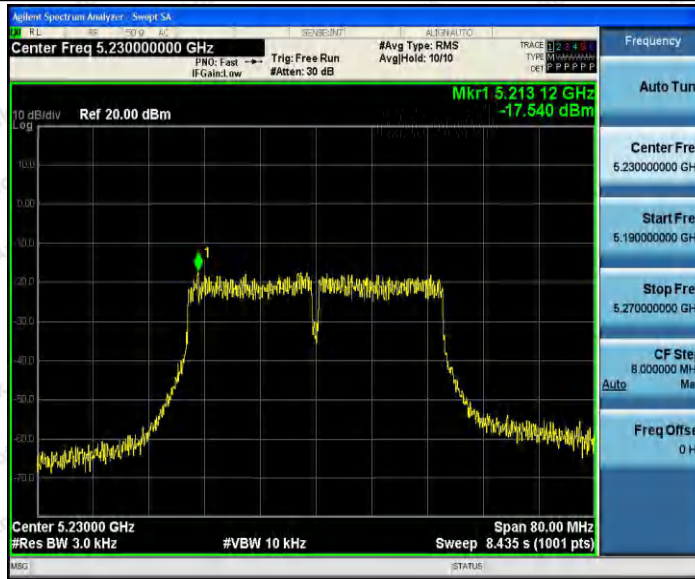
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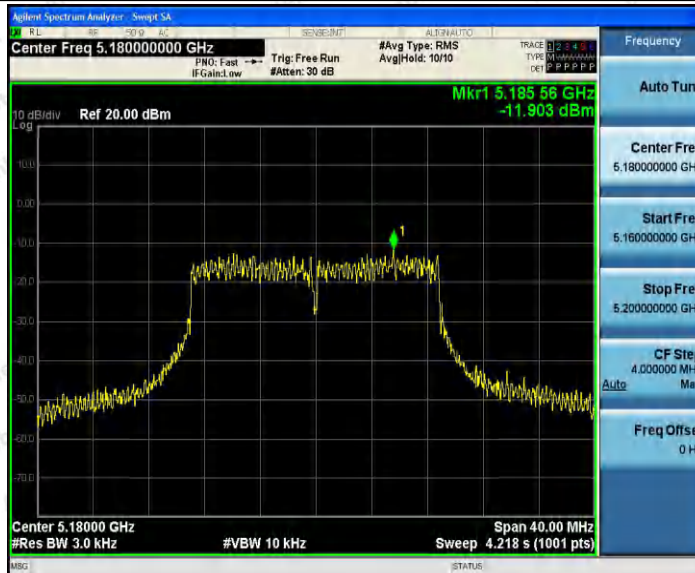
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11N40SISO\_Ant2\_5230



11AC20SISO\_Ant1\_5180

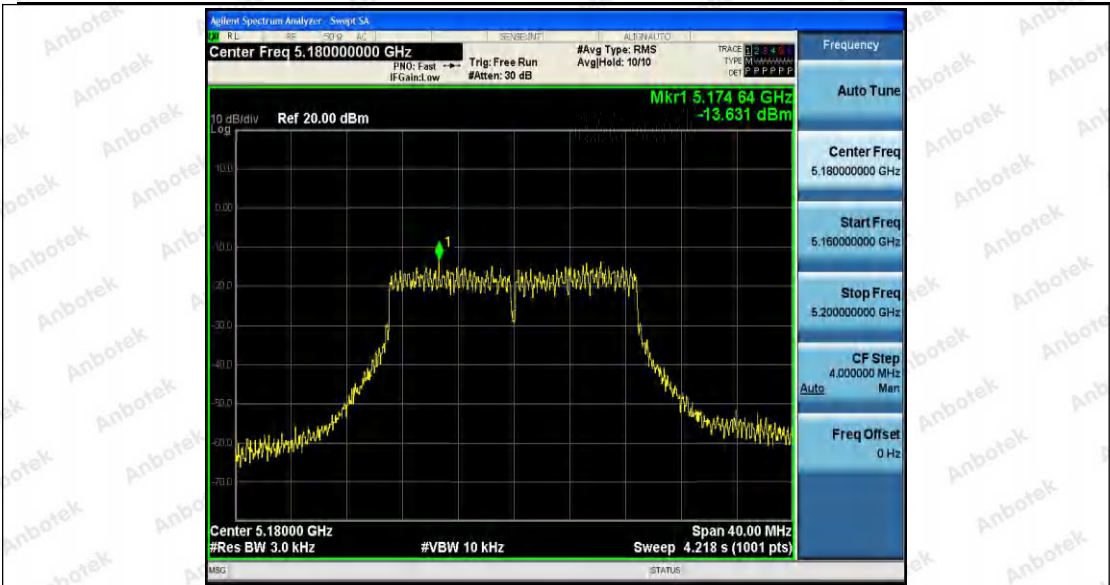


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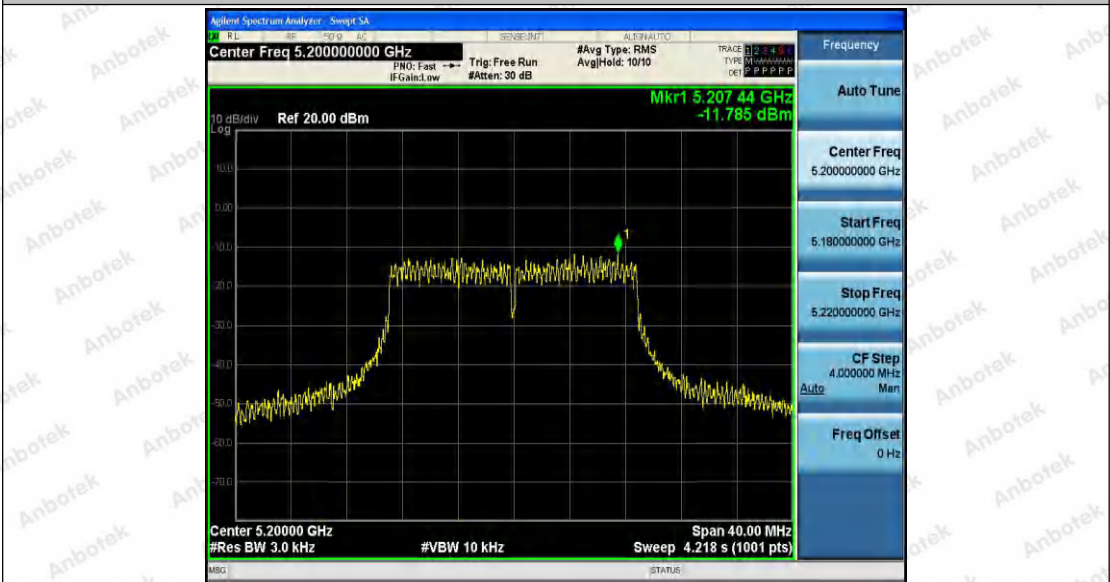
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 Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

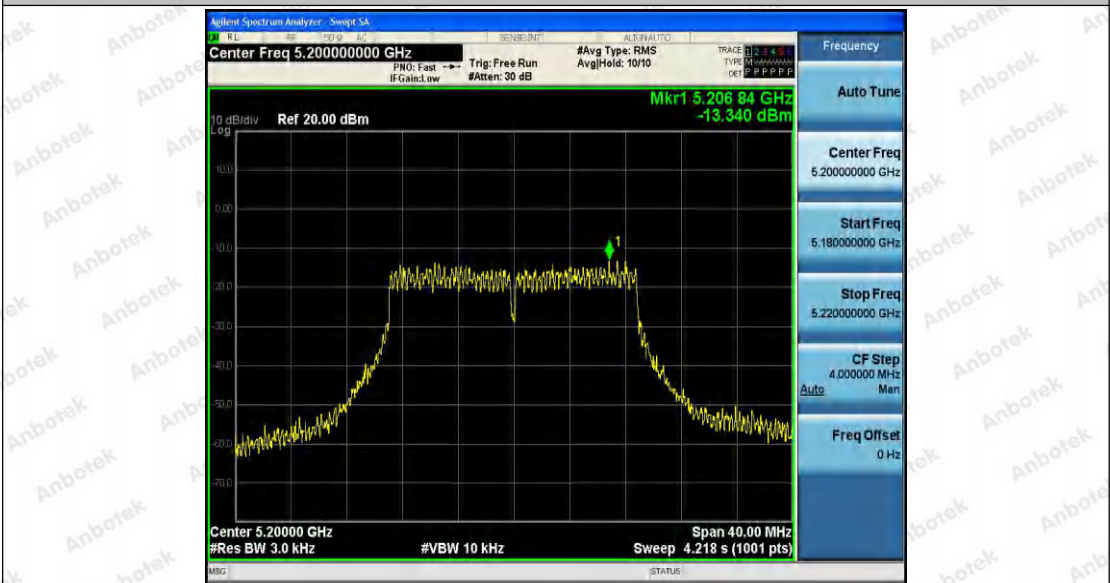
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11AC20SISO\_Ant1\_5200



11AC20SISO\_Ant2\_5200

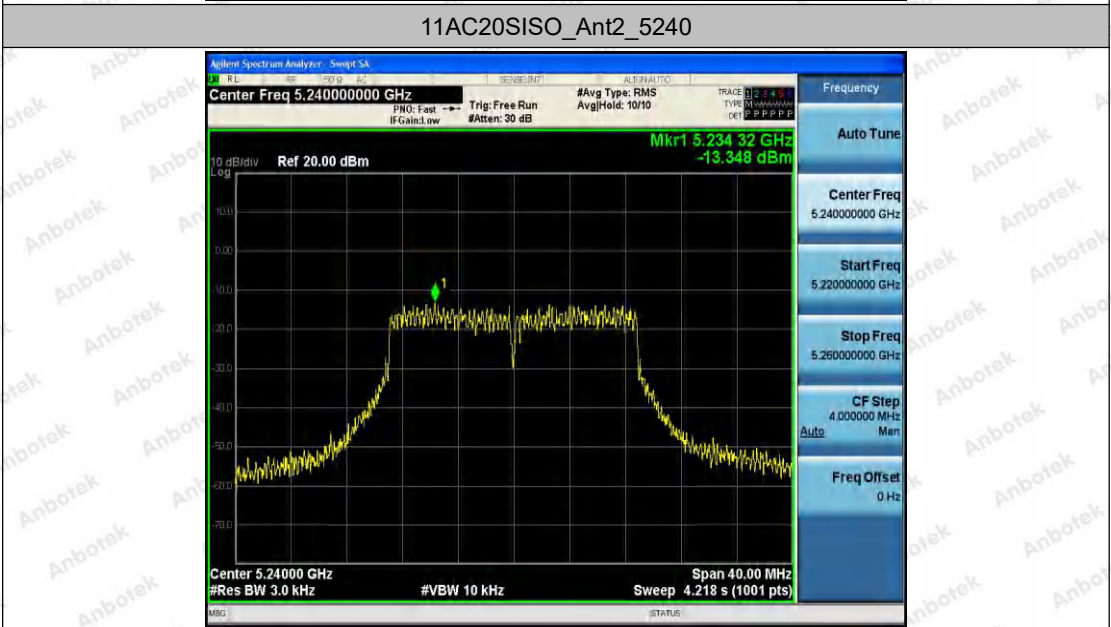
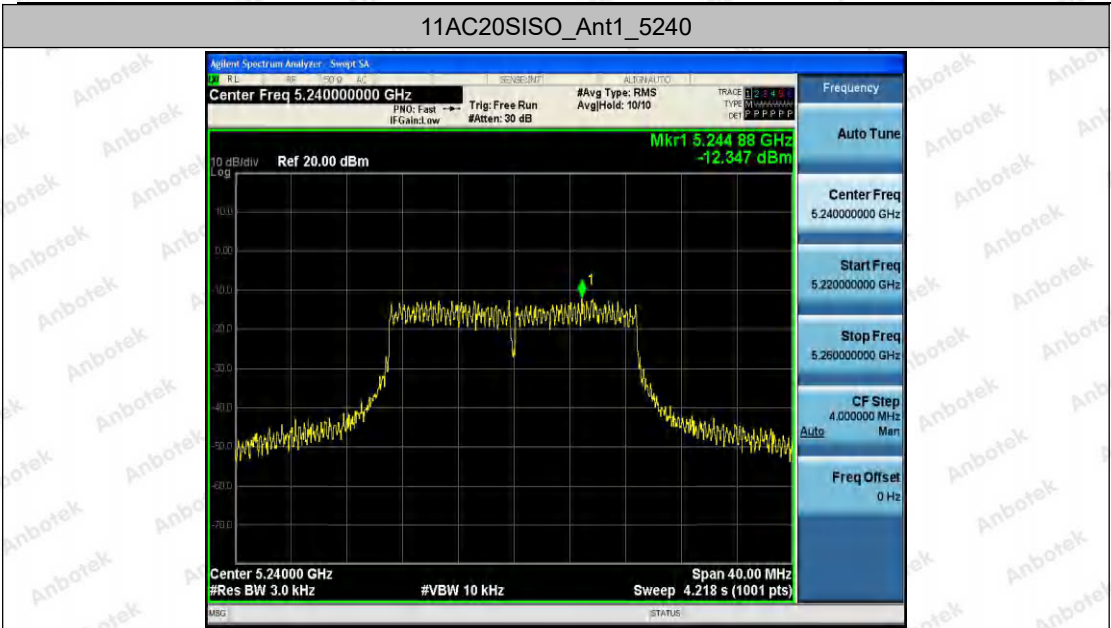


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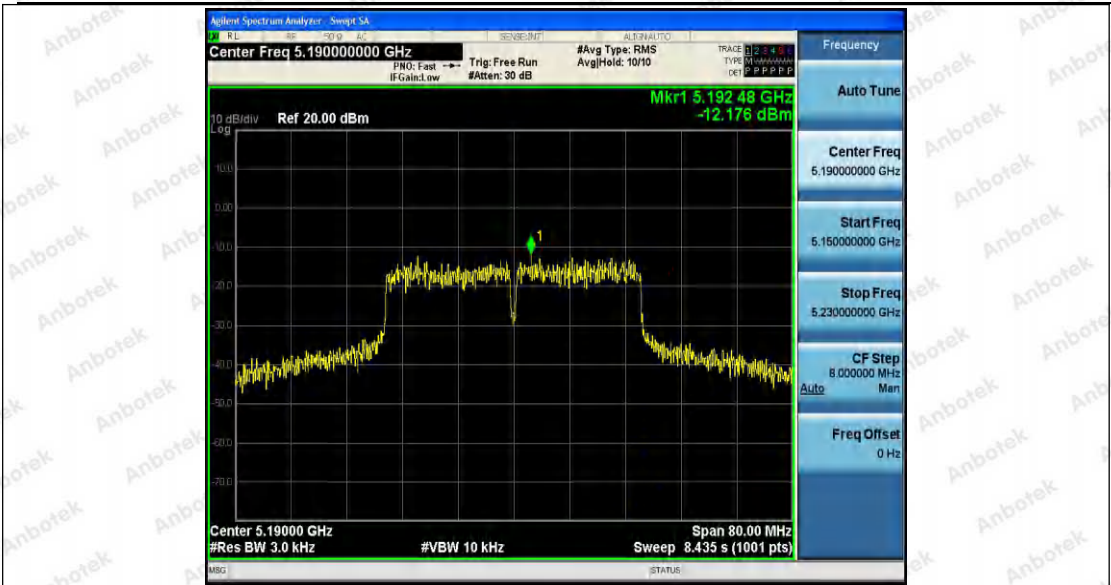
11AC40SISO\_Ant1\_5190

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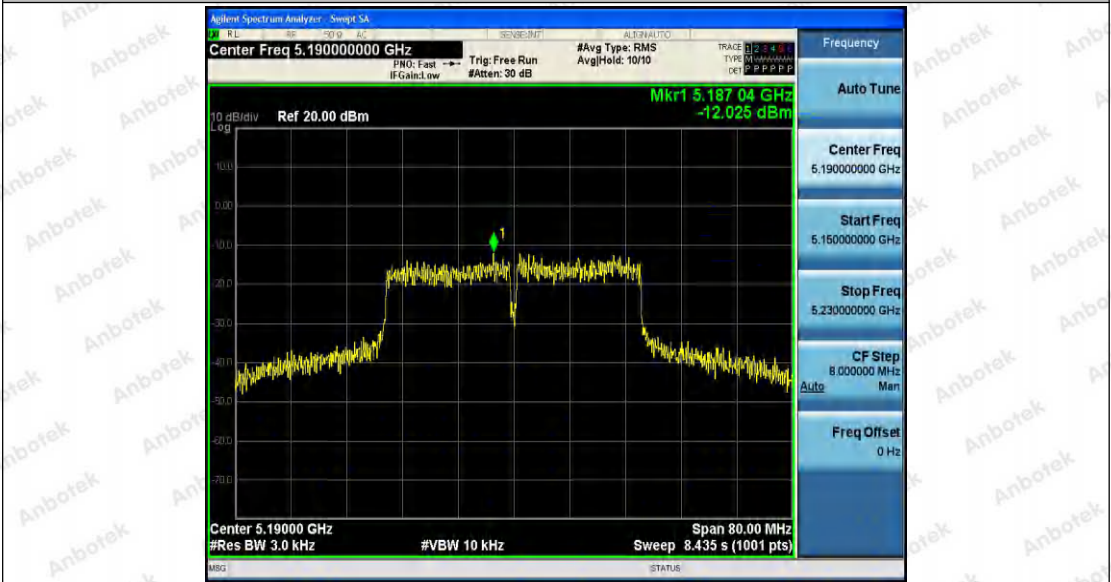
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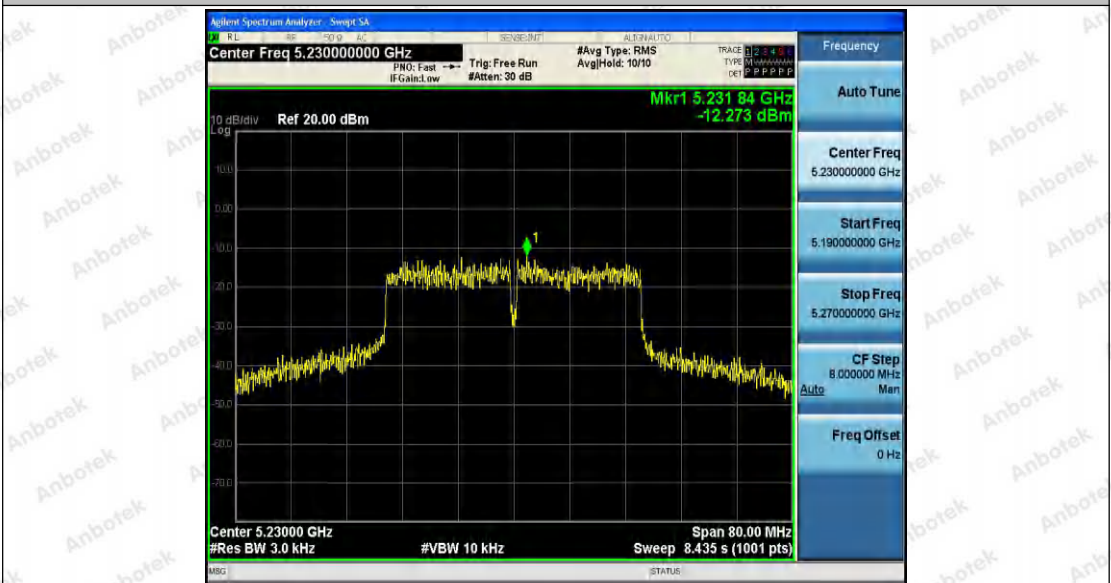
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11AC40SISO\_Ant2\_5190



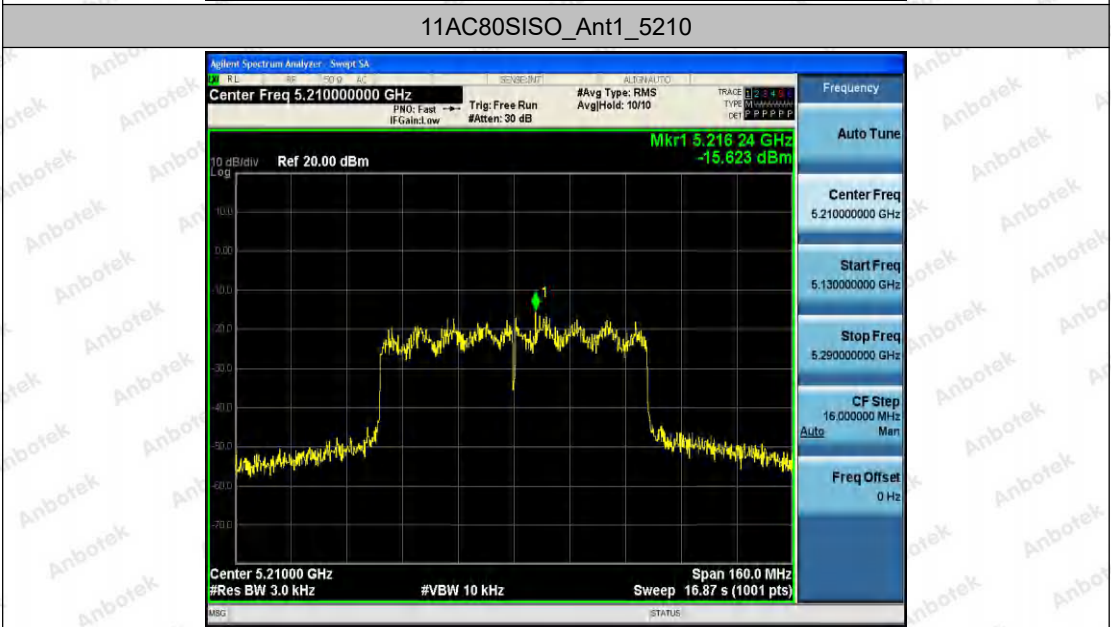
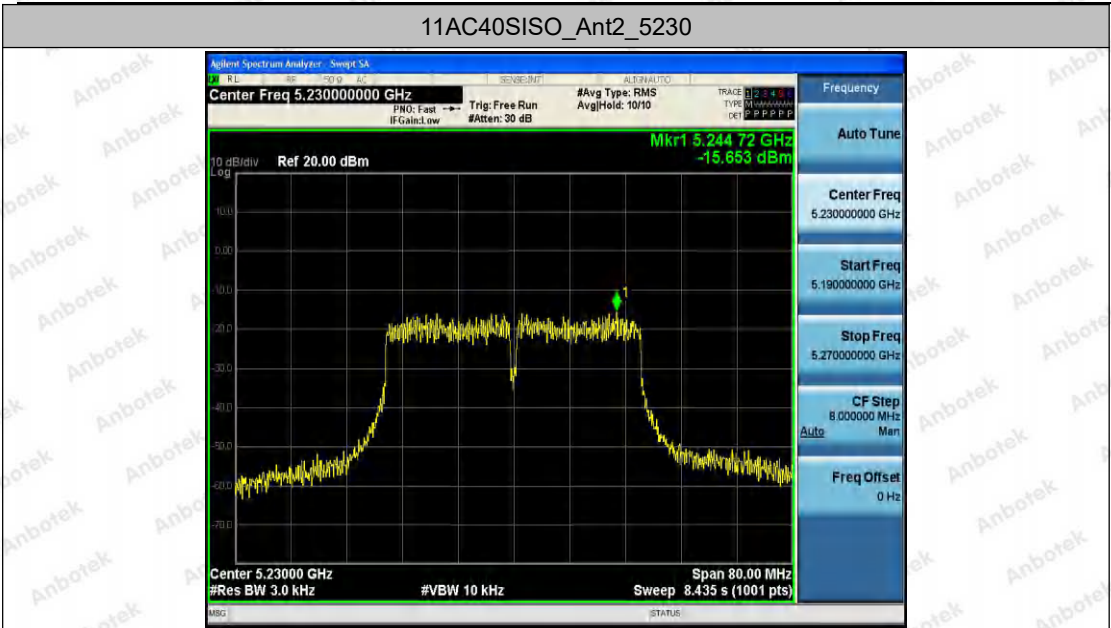
11AC40SISO\_Ant1\_5230



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**11AC80SISO\_Ant2\_5210**

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## Appendix D: Band edge measurements

### Test Result

TestMode	Antenna	ChName	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-29.82	≤-27	PASS
	Ant2	Low	5180	-38.04	≤-27	PASS
	Ant1	High	5240	-43.41	≤-27	PASS
	Ant2	High	5240	-44.25	≤-27	PASS
11N20SI SO	Ant1	Low	5180	-30.48	≤-27	PASS
	Ant2	Low	5180	-34.81	≤-27	PASS
	Ant1	High	5240	-44.02	≤-27	PASS
	Ant2	High	5240	-43.59	≤-27	PASS
11N40SI SO	Ant1	Low	5190	-41.86	≤-27	PASS
	Ant2	Low	5190	-42.59	≤-27	PASS
	Ant1	High	5230	-43.87	≤-27	PASS
	Ant2	High	5230	-44.38	≤-27	PASS
11AC20S ISO	Ant1	Low	5180	-32.17	≤-27	PASS
	Ant2	Low	5180	-34.68	≤-27	PASS
	Ant1	High	5240	-43.75	≤-27	PASS
	Ant2	High	5240	-43.98	≤-27	PASS
11AC40S ISO	Ant1	Low	5190	-42.66	≤-27	PASS
	Ant2	Low	5190	-39.66	≤-27	PASS
	Ant1	High	5230	-39.66	≤-27	PASS
	Ant2	High	5230	-42.43	≤-27	PASS
11AC80S ISO	Ant1	Low	5210	-41.59	≤-27	PASS
	Ant2	Low	5210	-43.41	≤-27	PASS
	Ant1	High	5210	-44.7	≤-27	PASS
	Ant2	High	5210	-44.49	≤-27	PASS

## Test Graphs

11A\_Ant1\_Low\_5180



11A\_Ant2\_Low\_5180



11A\_Ant1\_High\_5240

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11A\_Ant2\_High\_5240



11N20SISO\_Ant1\_Low\_5180



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11N20SISO\_Ant2\_Low\_5180



11N20SISO\_Ant1\_High\_5240



11N20SISO\_Ant2\_High\_5240

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11N40SISO\_Ant1\_Low\_5190



11N40SISO\_Ant2\_Low\_5190



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11N40SISO\_Ant1\_High\_5230



11N40SISO\_Ant2\_High\_5230



11AC20SISO\_Ant1\_Low\_5180

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11AC20SISO\_Ant2\_Low\_5180



11AC20SISO\_Ant1\_High\_5240



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11AC20SISO\_Ant2\_High\_5240



11AC40SISO\_Ant1\_Low\_5190



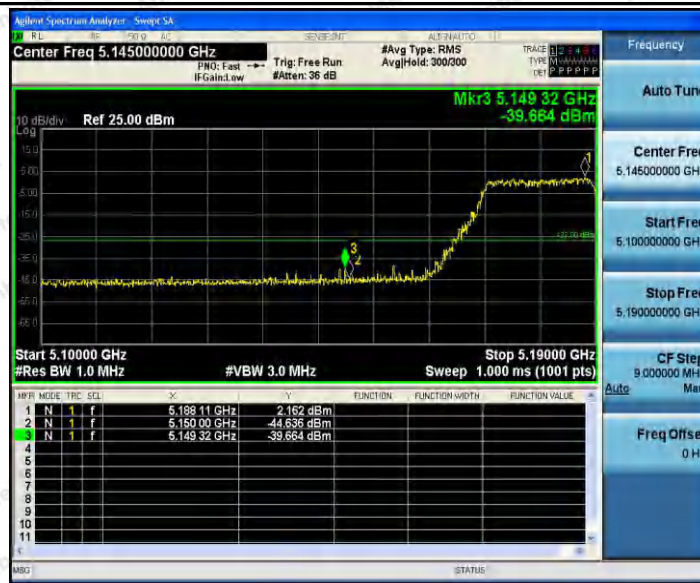
11AC40SISO\_Ant2\_Low\_5190

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11AC40SISO\_Ant1\_High\_5230



11AC40SISO\_Ant2\_High\_5230



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11AC80SISO\_Ant1\_Low\_5210



11AC80SISO\_Ant2\_Low\_5210



11AC80SISO\_Ant1\_High\_5210

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## Appendix E: Duty Cycle

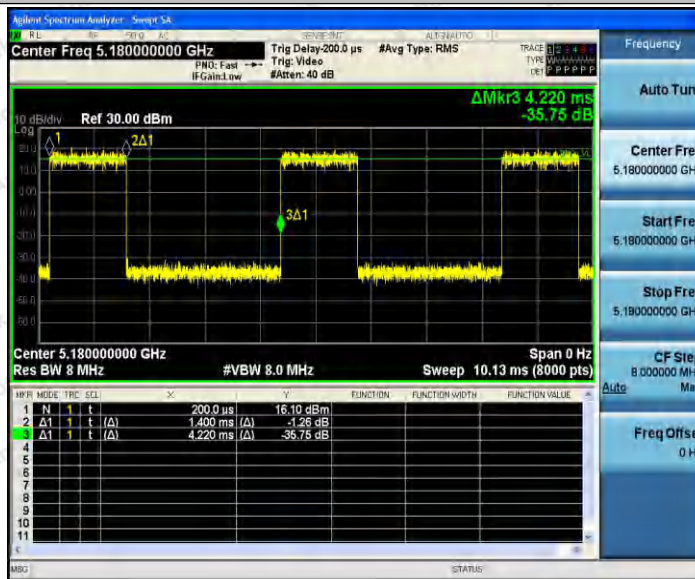
### Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant1	5180	1.40	4.22	33.18	---	PASS
	Ant2	5180	1.41	4.35	32.41	---	PASS
	Ant1	5200	1.41	4.00	35.25	---	PASS
	Ant2	5200	1.41	3.64	38.74	---	PASS
	Ant1	5240	1.41	4.38	32.19	---	PASS
	Ant2	5240	1.40	3.93	35.62	---	PASS
11N20SISO	Ant1	5180	1.32	3.58	36.87	---	PASS
	Ant2	5180	1.32	4.61	28.63	---	PASS
	Ant1	5200	1.32	3.87	34.11	---	PASS
	Ant2	5200	1.32	5.12	25.78	---	PASS
	Ant1	5240	1.32	4.00	33.00	---	PASS
	Ant2	5240	1.32	4.26	30.99	---	PASS
11N40SISO	Ant1	5190	0.65	4.45	14.61	---	PASS
	Ant2	5190	0.65	3.49	18.62	---	PASS
	Ant1	5230	0.65	4.64	14.01	---	PASS
	Ant2	5230	0.65	4.71	13.80	---	PASS
11AC20SIS O	Ant1	5180	1.32	4.73	27.91	---	PASS
	Ant2	5180	1.32	4.13	31.96	---	PASS
	Ant1	5200	1.33	4.90	27.14	---	PASS
	Ant2	5200	1.32	3.62	36.46	---	PASS
	Ant1	5240	1.33	4.42	30.09	---	PASS
	Ant2	5240	1.32	4.64	28.45	---	PASS
11AC40SIS O	Ant1	5190	0.66	3.65	18.08	---	PASS
	Ant2	5190	0.66	4.61	14.32	---	PASS
	Ant1	5230	0.66	3.97	16.62	---	PASS
	Ant2	5230	0.65	3.64	17.86	---	PASS
11AC80SIS O	Ant1	5210	0.33	4.23	7.80	---	PASS
	Ant2	5210	0.33	3.71	8.89	---	PASS

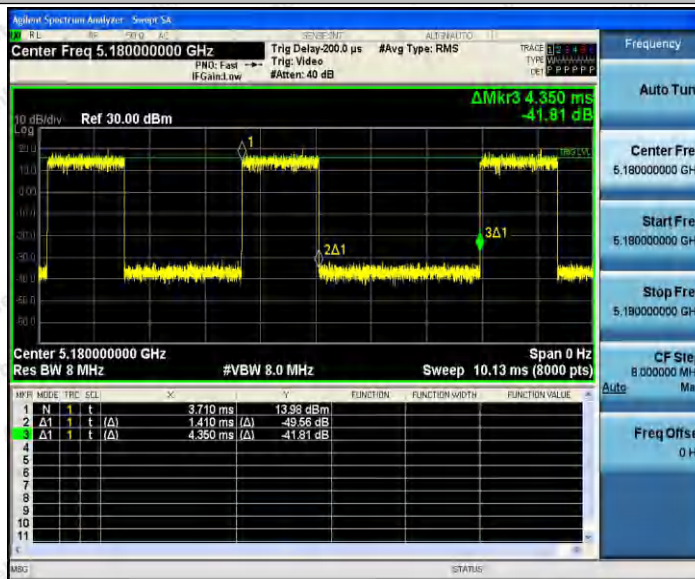


## Test Graphs

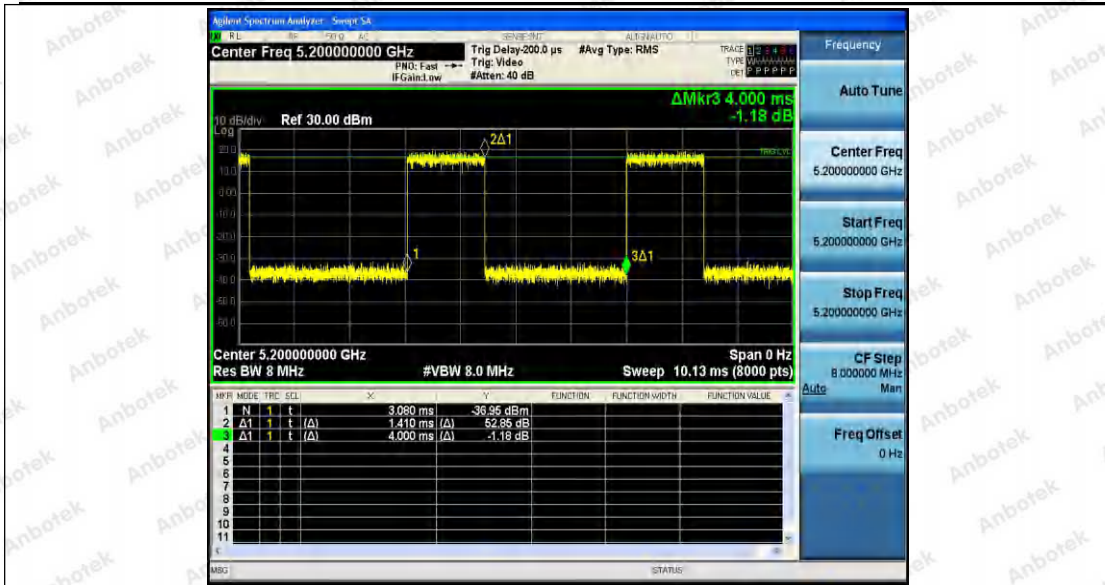
11A\_Ant1\_5180



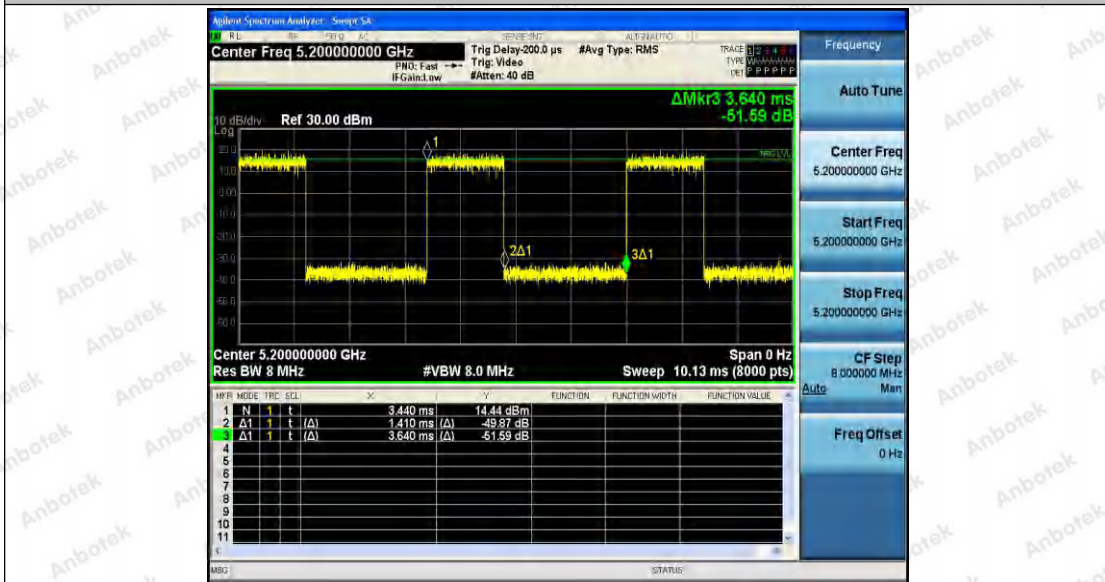
11A\_Ant2\_5180



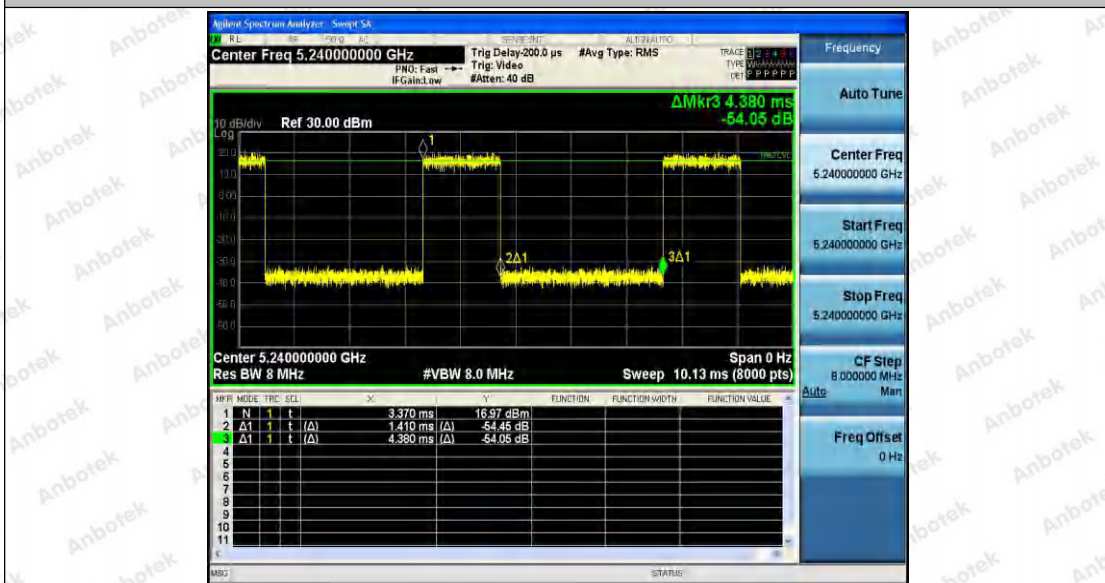
11A\_Ant1\_5200



11A\_Ant2\_5200



11A\_Ant1\_5240



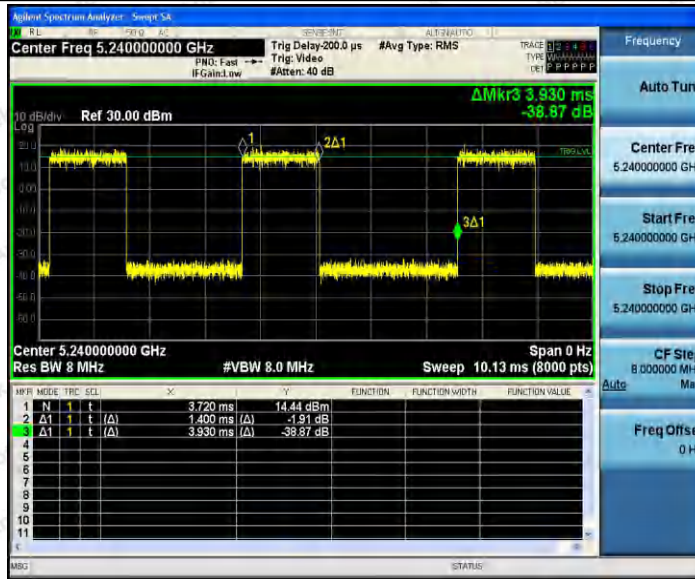
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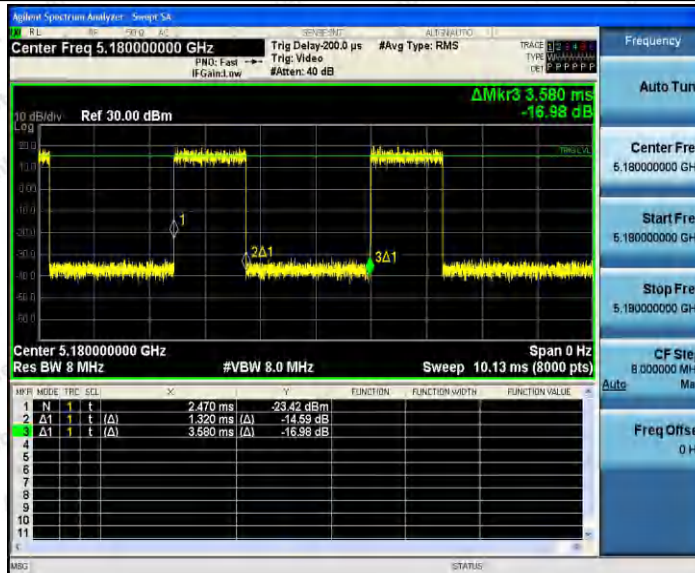
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11A\_Ant2\_5240



11N20SISO\_Ant1\_5180



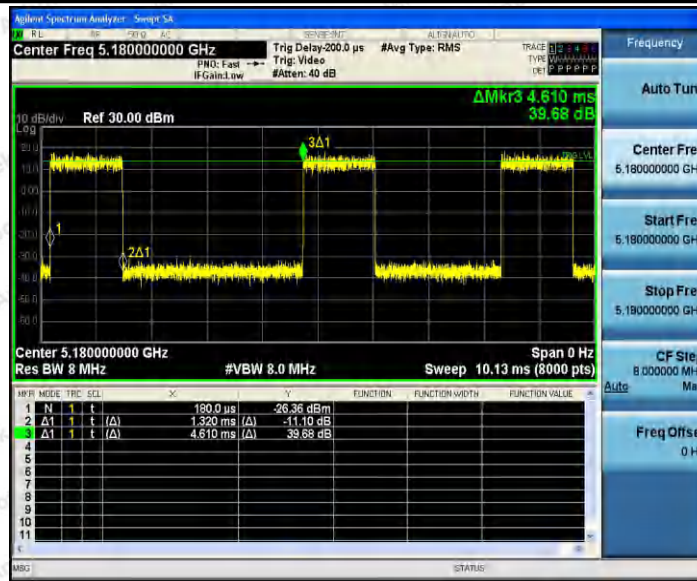
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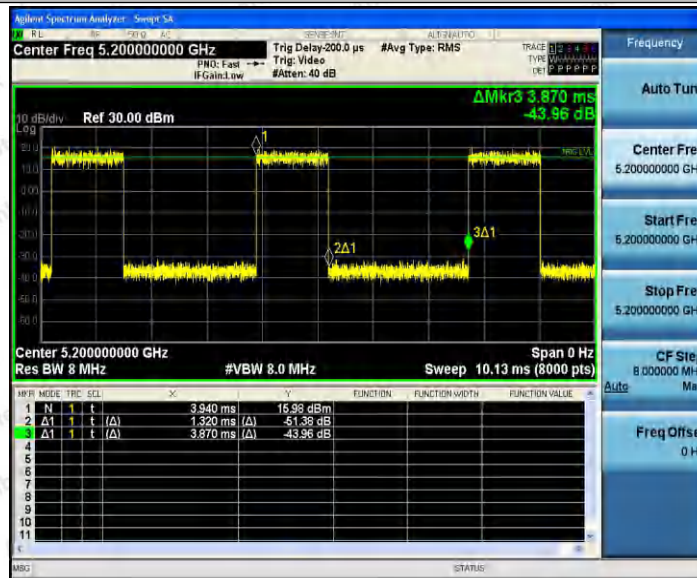
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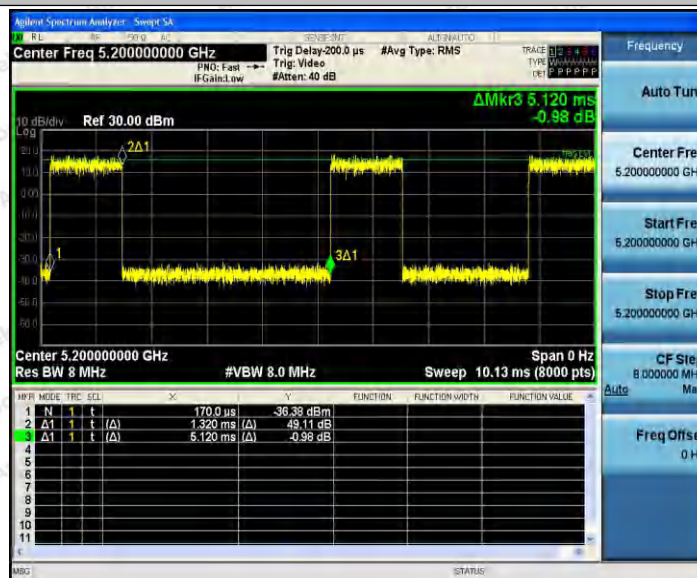
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11N20SISO\_Ant1\_5200



11N20SISO\_Ant2\_5200



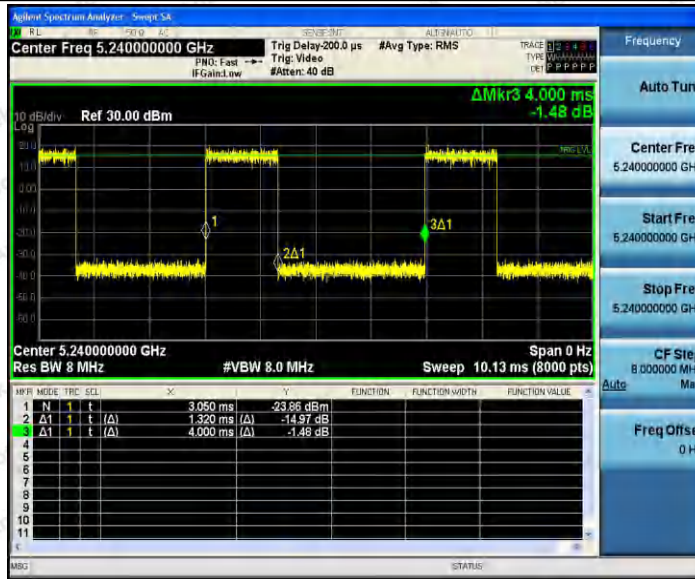
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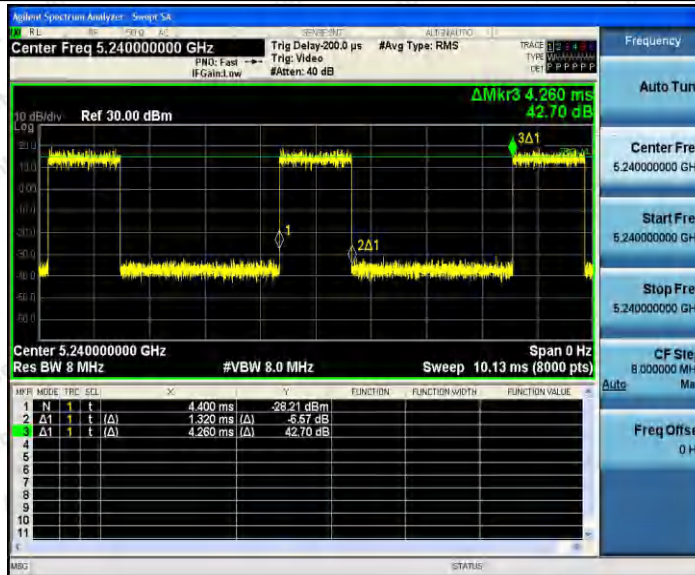
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11N20SISO\_Ant1\_5240



11N20SISO\_Ant2\_5240



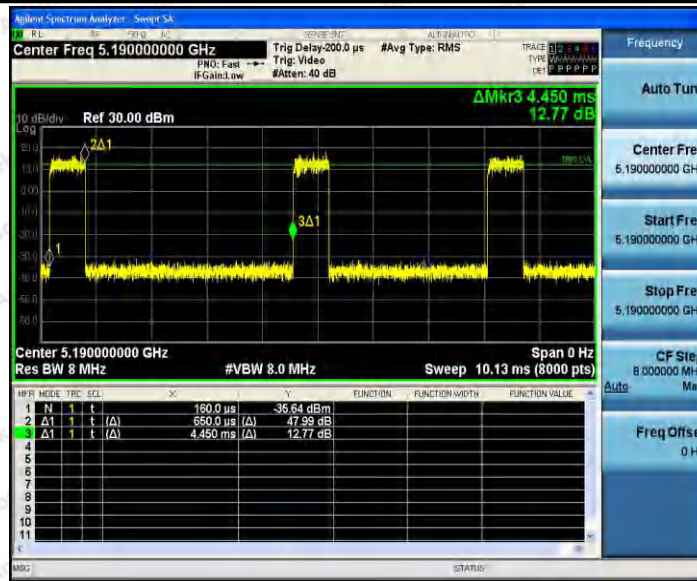
11N40SISO\_Ant1\_5190

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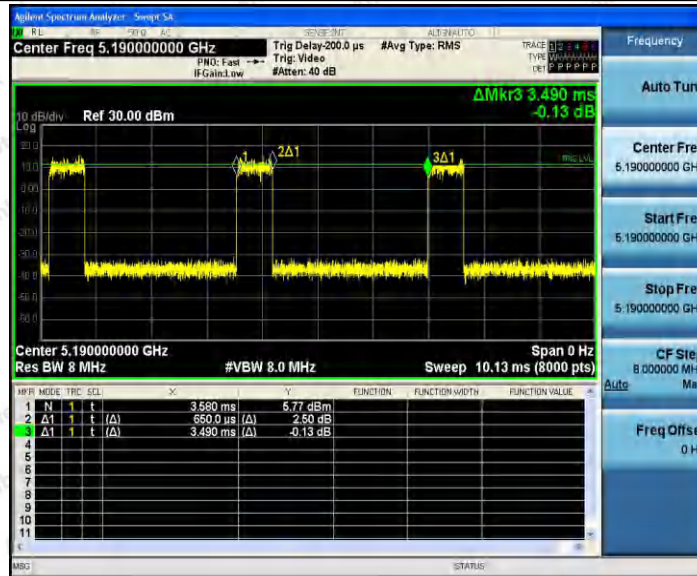
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

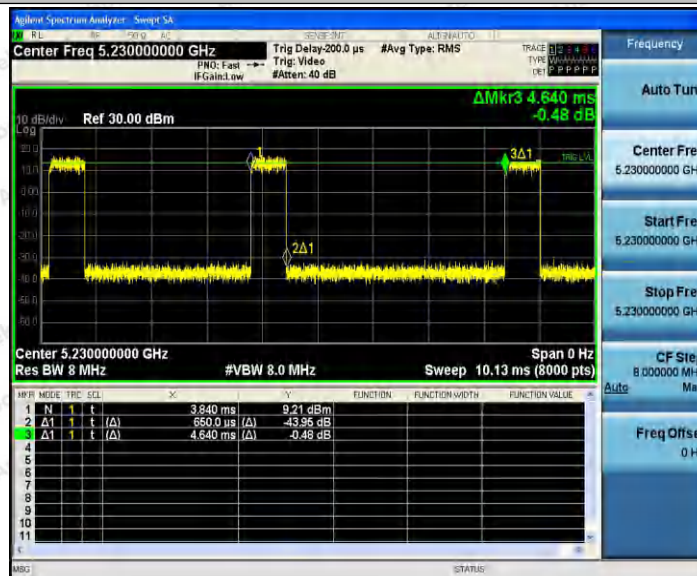
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11N40SISO\_Ant2\_5190



11N40SISO\_Ant1\_5230



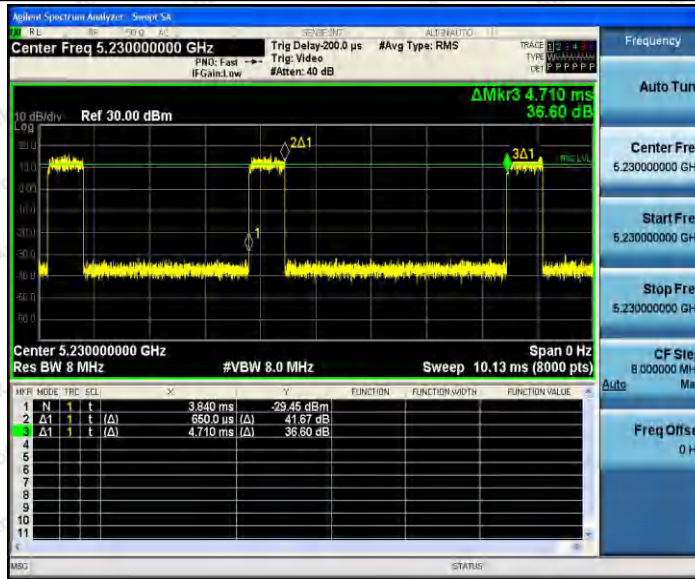
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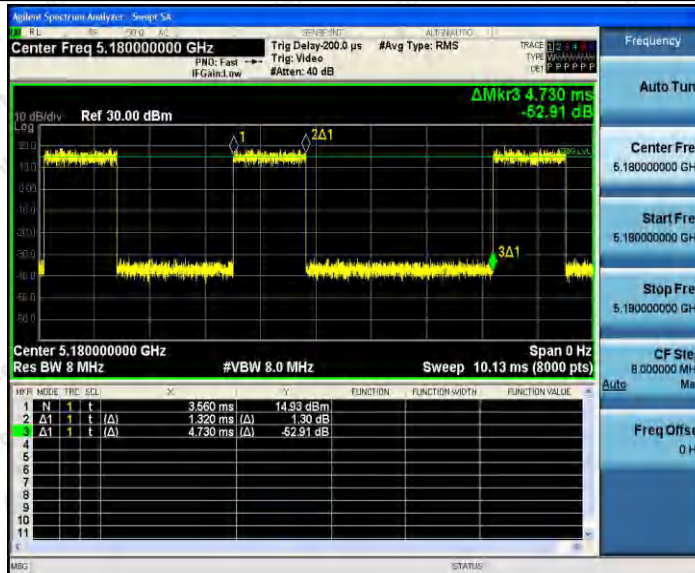
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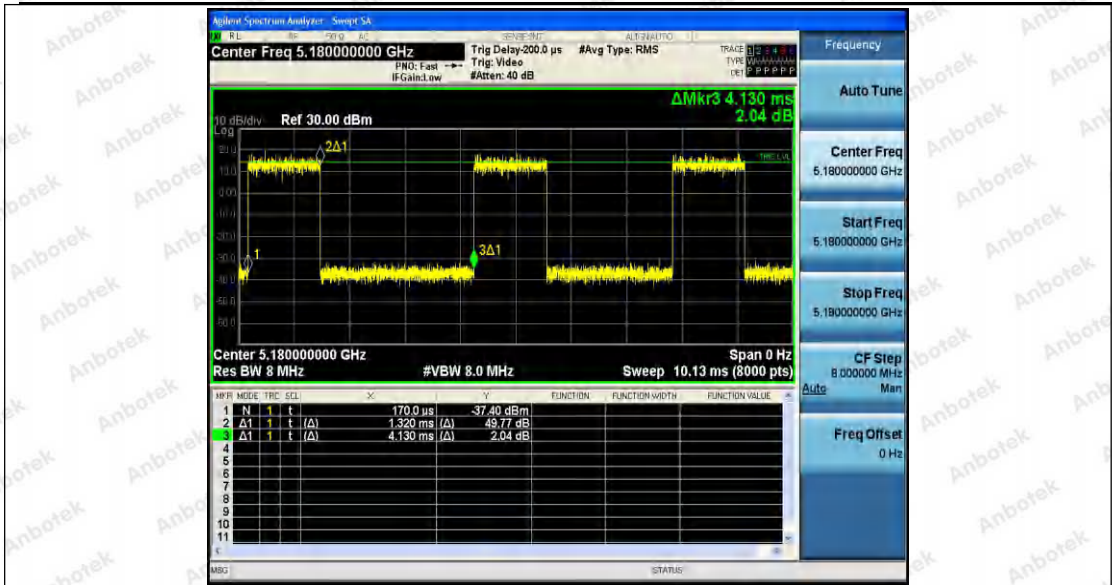
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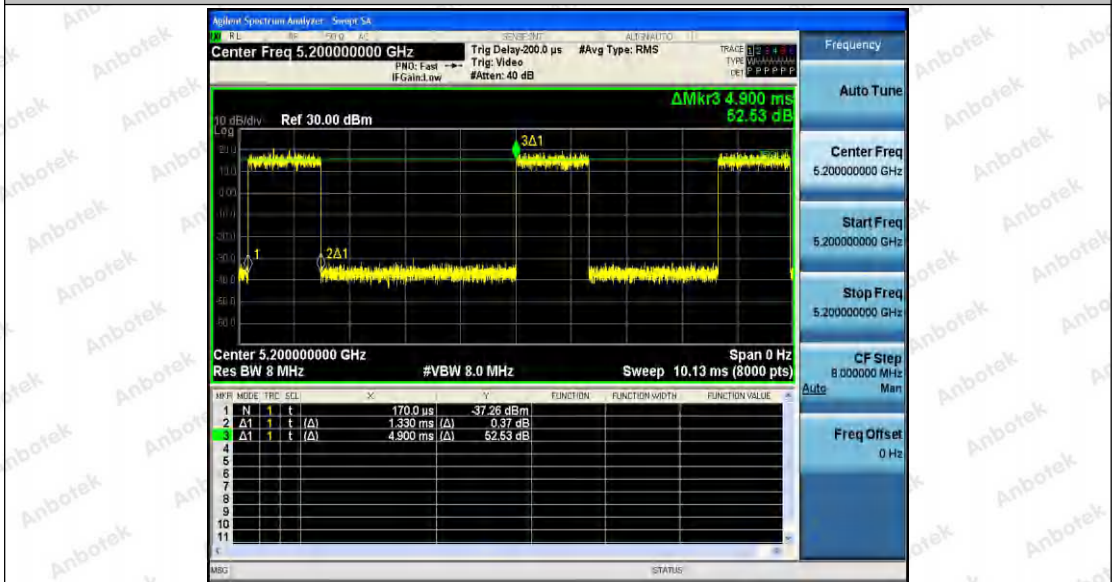
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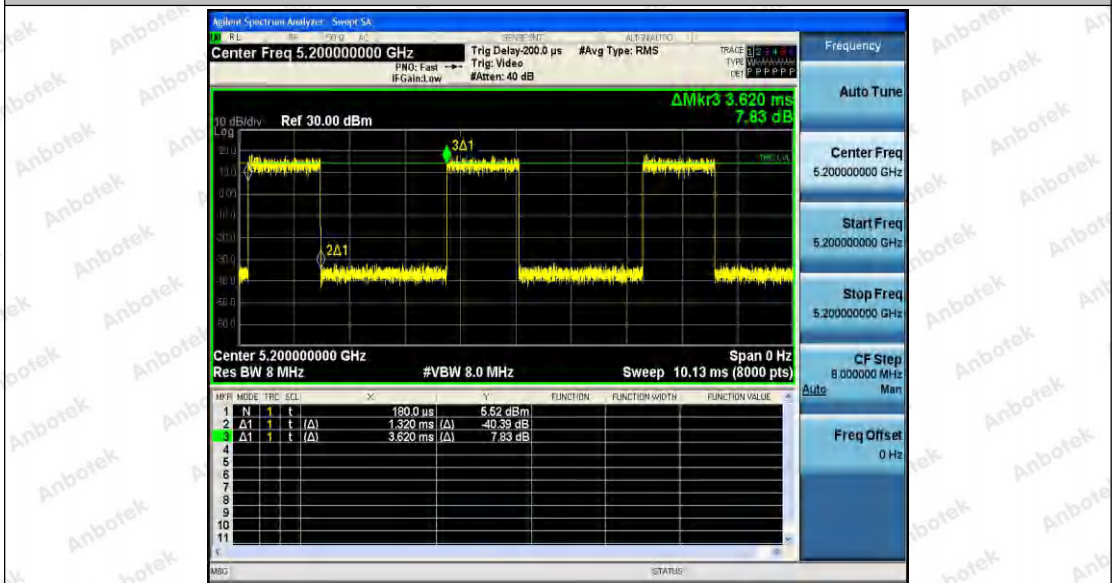
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11AC20SISO\_Ant1\_5200



11AC20SISO\_Ant2\_5200



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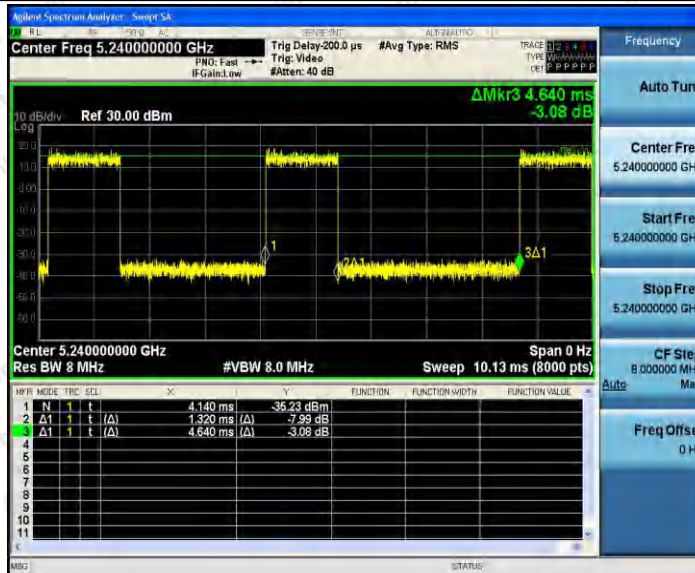
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11AC20SISO\_Ant1\_5240



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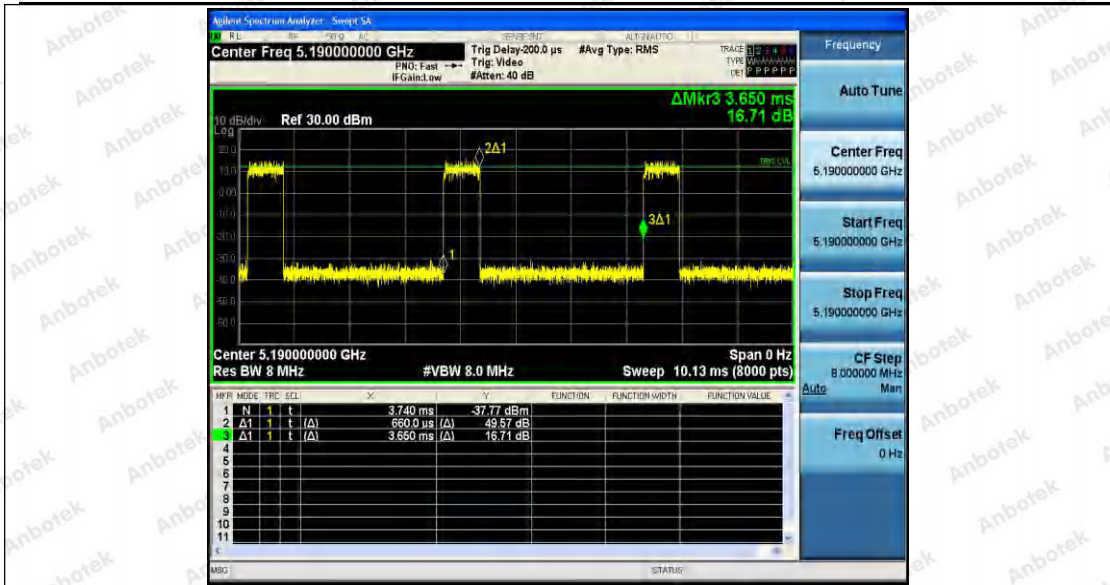
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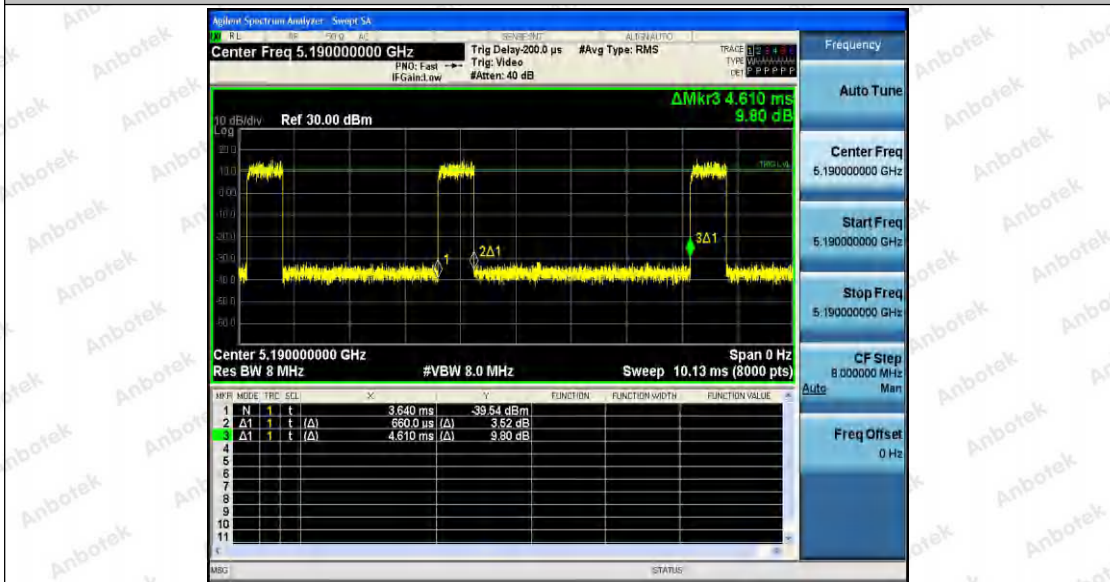
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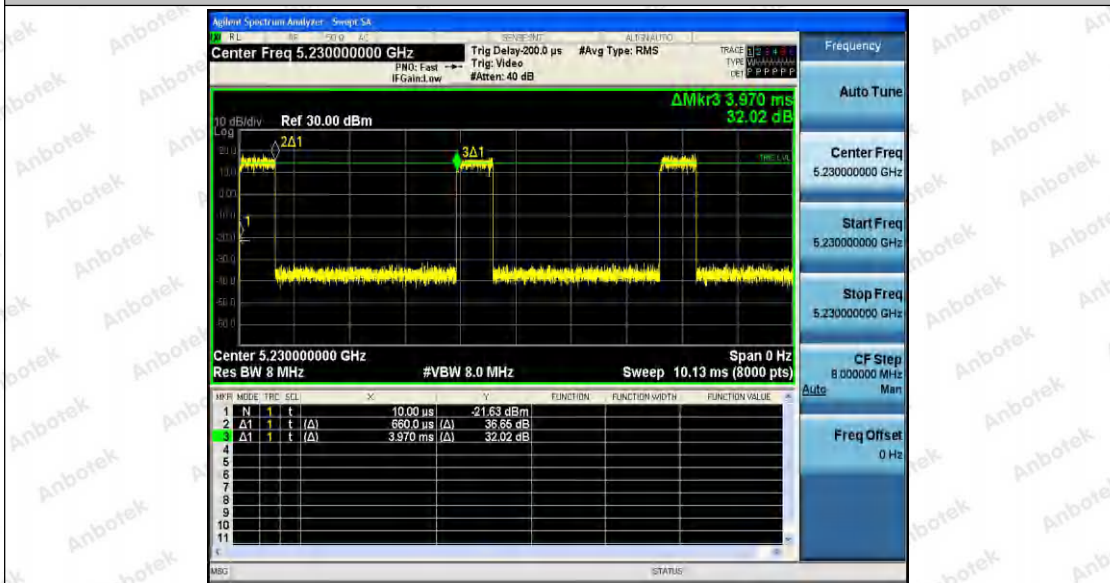
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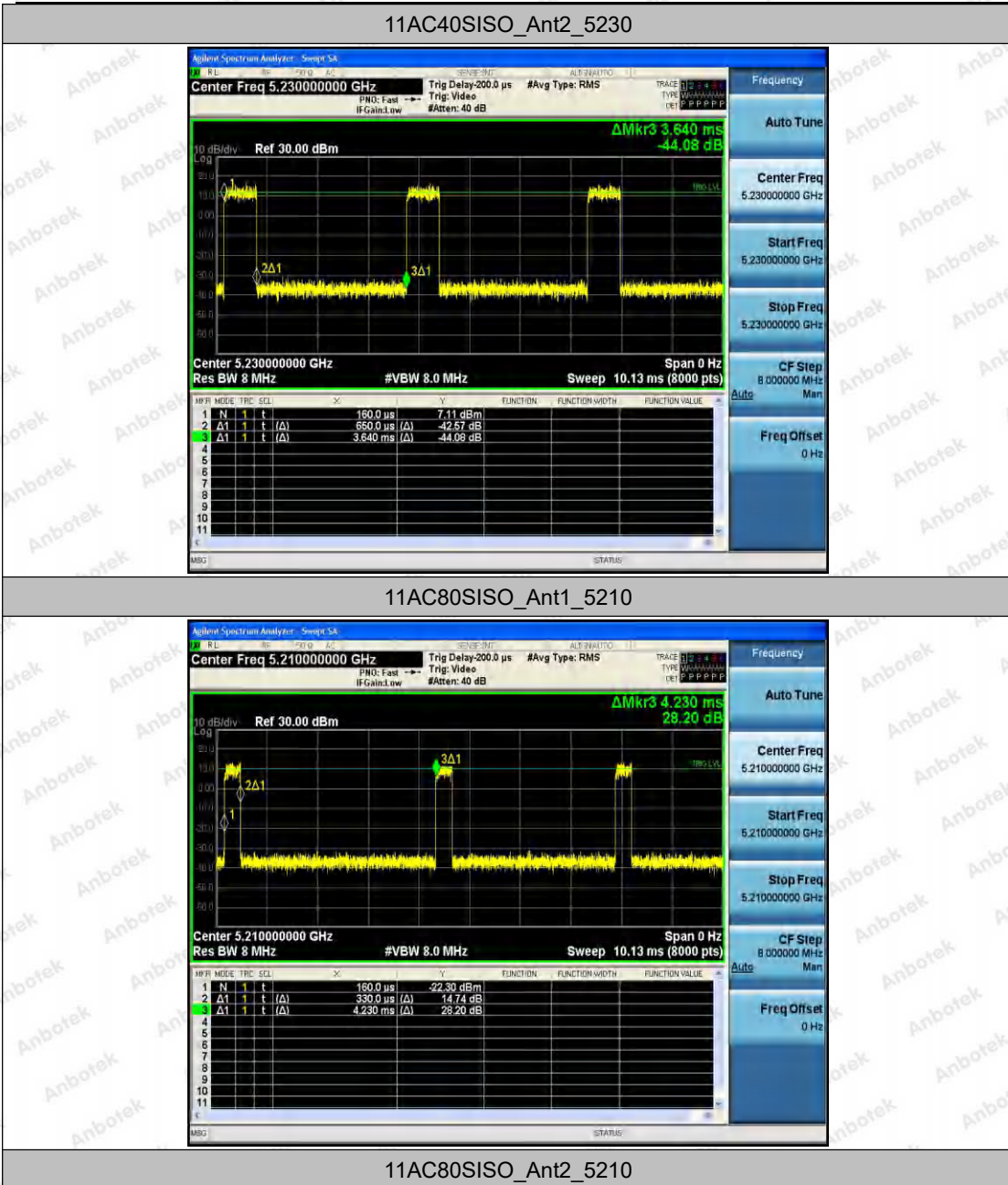
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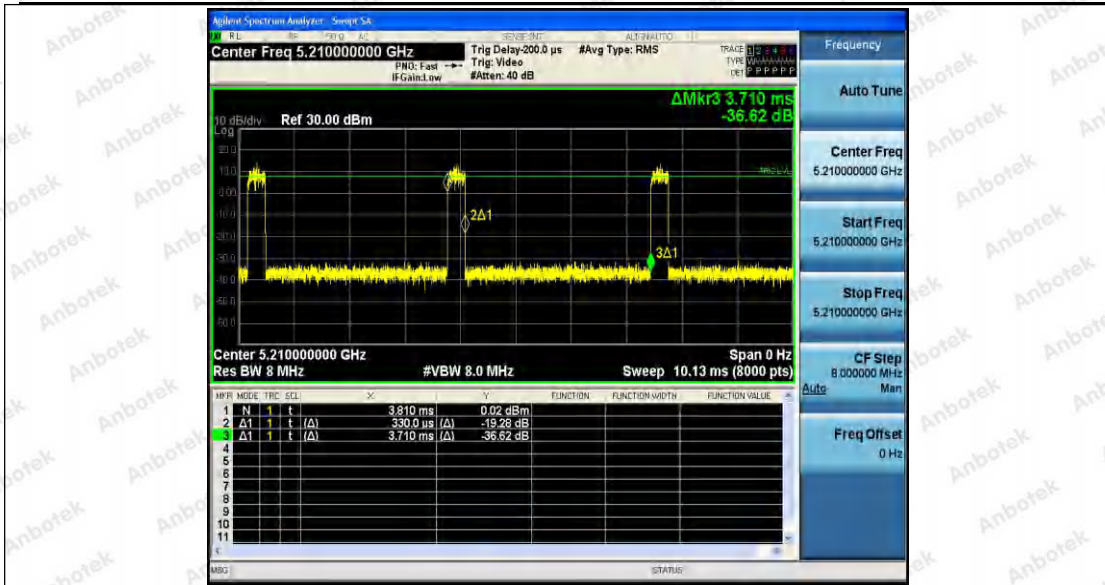
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