

## Appendix A3: Min emission bandwidth

### Test Result B4

Test Mode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.120	5737.440	5752.560	0.5	PASS
	Ant2	5745	15.080	5737.440	5752.520	0.5	PASS
	Ant1	5785	15.080	5777.440	5792.520	0.5	PASS
	Ant2	5785	15.120	5777.440	5792.560	0.5	PASS
	Ant1	5825	15.120	5817.440	5832.560	0.5	PASS
	Ant2	5825	15.120	5817.440	5832.560	0.5	PASS
11N20SISO	Ant1	5745	15.120	5737.440	5752.560	0.5	PASS
	Ant2	5745	15.080	5737.440	5752.520	0.5	PASS
	Ant1	5785	15.080	5777.440	5792.520	0.5	PASS
	Ant2	5785	15.120	5777.440	5792.560	0.5	PASS
	Ant1	5825	15.120	5817.440	5832.560	0.5	PASS
	Ant2	5825	15.120	5817.440	5832.560	0.5	PASS
11N40SISO	Ant1	5755	35.040	5737.480	5772.520	0.5	PASS
	Ant2	5755	35.120	5737.400	5772.520	0.5	PASS
	Ant1	5795	35.120	5777.400	5812.520	0.5	PASS
	Ant2	5795	35.040	5777.480	5812.520	0.5	PASS
11AC20SISO	Ant1	5745	15.120	5737.440	5752.560	0.5	PASS
	Ant2	5745	15.120	5737.440	5752.560	0.5	PASS
	Ant1	5785	15.040	5777.440	5792.480	0.5	PASS
	Ant2	5785	15.120	5777.440	5792.560	0.5	PASS
	Ant1	5825	15.120	5817.440	5832.560	0.5	PASS
	Ant2	5825	15.120	5817.440	5832.560	0.5	PASS
11AC40SISO	Ant1	5755	35.120	5737.400	5772.520	0.5	PASS
	Ant2	5755	33.920	5737.400	5771.320	0.5	PASS
	Ant1	5795	35.120	5777.400	5812.520	0.5	PASS
	Ant2	5795	35.120	5777.400	5812.520	0.5	PASS
11AC80SISO	Ant1	5775	75.040	5737.400	5812.440	0.5	PASS
	Ant2	5775	75.200	5737.400	5812.600	0.5	PASS

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## Test Graphs B4



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11A\_Ant2\_5785



11A\_Ant1\_5825



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11A\_Ant2\_5825



11N20SISO\_Ant1\_5745



11N20SISO\_Ant2\_5745

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11N20SISO\_Ant1\_5785



11N20SISO\_Ant2\_5785



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### 11N20SISO\_Ant1\_5825



### 11N20SISO\_Ant2\_5825



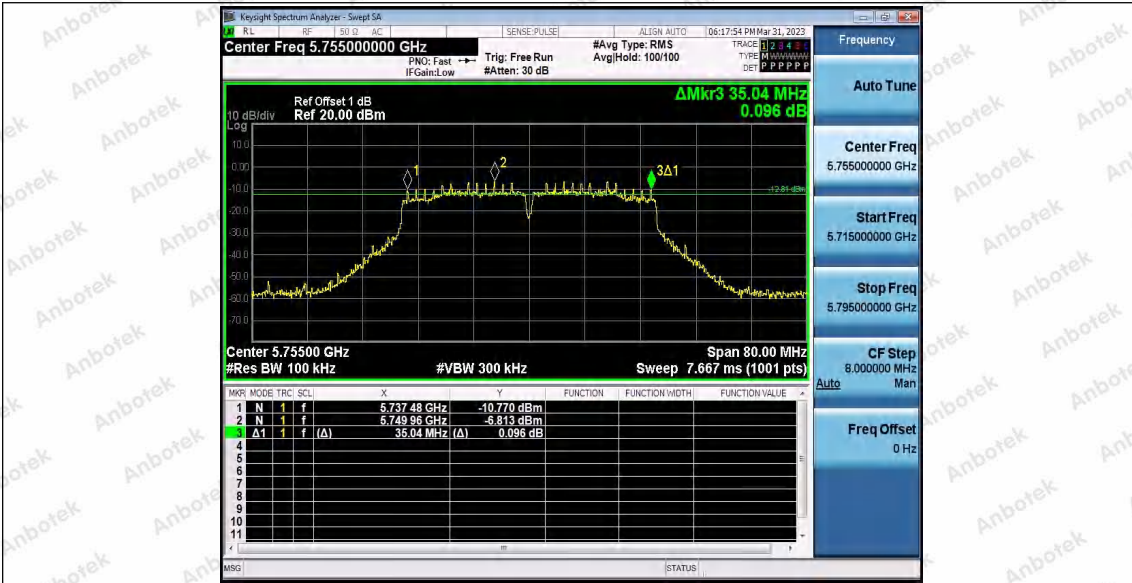
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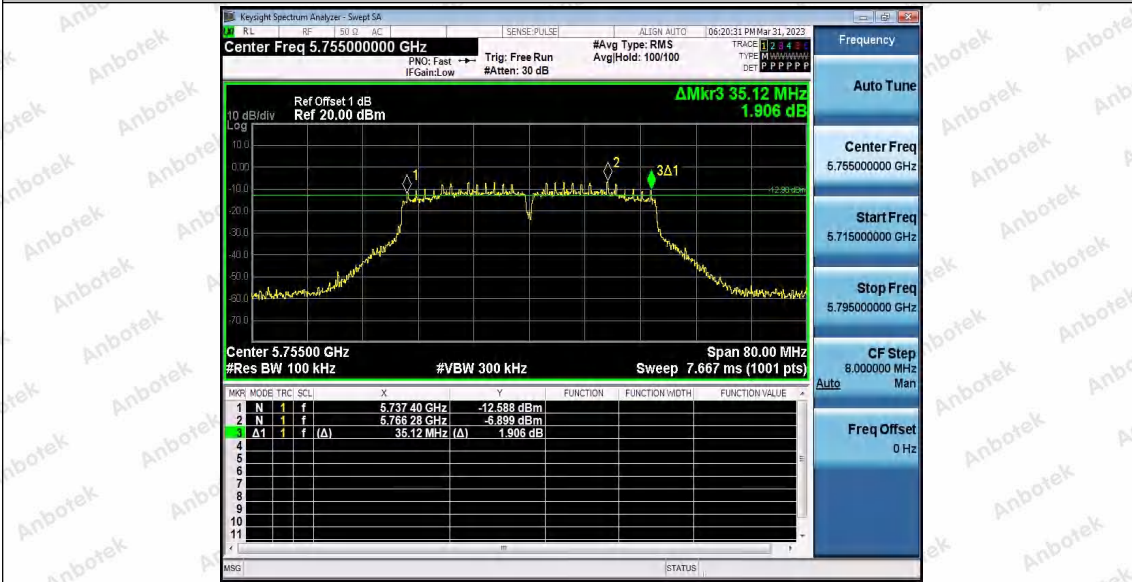
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11N40SISO\_Ant2\_5755



11N40SISO\_Ant1\_5795



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11N40SISO\_Ant2\_5795



11AC20SISO\_Ant1\_5745



11AC20SISO\_Ant2\_5745

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11AC20SISO\_Ant1\_5785



11AC20SISO\_Ant2\_5785



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11AC20SISO\_Ant1\_5825



11AC20SISO\_Ant2\_5825



11AC40SISO\_Ant1\_5755

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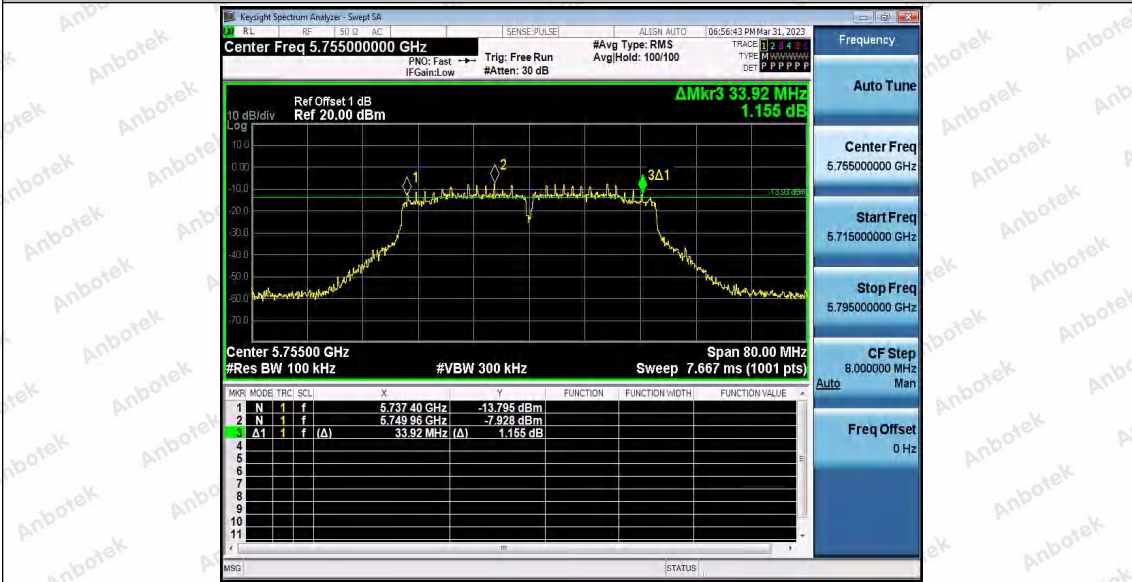
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11AC40SISO\_Ant2\_5755



11AC40SISO\_Ant1\_5795



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11AC40SISO\_Ant2\_5795



11AC80SISO\_Ant1\_5775



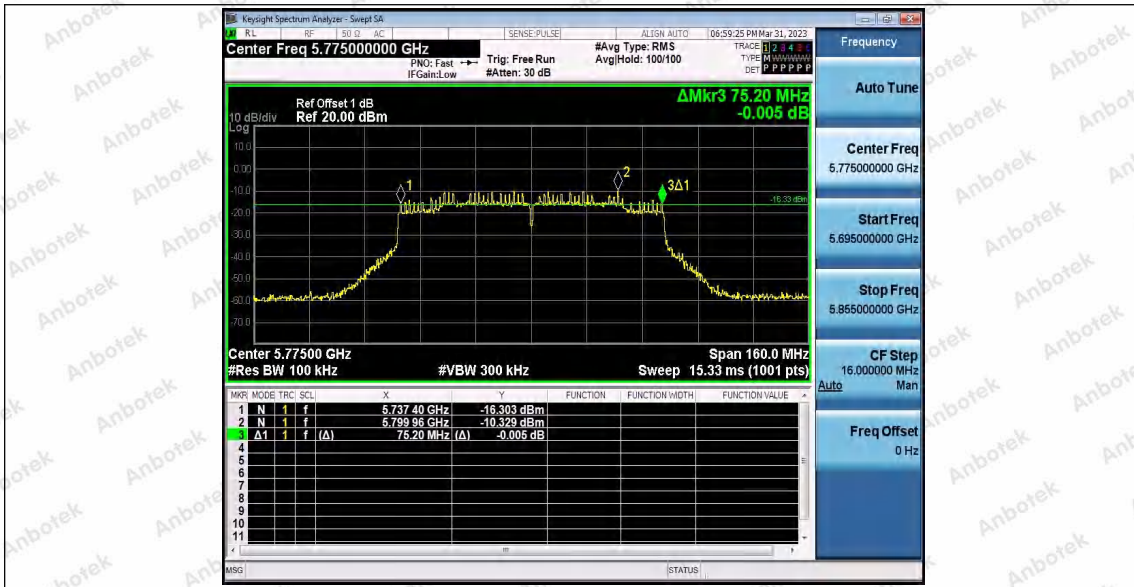
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## Appendix B: Duty Cycle

### Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	0.15	0.20	75.00
	Ant2	5180	0.15	0.20	75.00
	Ant1	5200	0.15	0.20	75.00
	Ant2	5200	0.15	0.20	75.00
	Ant1	5240	0.14	0.19	73.68
	Ant2	5240	0.14	0.19	73.68
	Ant1	5745	0.14	0.19	73.68
	Ant2	5745	0.14	0.19	73.68
	Ant1	5785	0.15	0.19	78.95
	Ant2	5785	0.15	0.19	78.95
	Ant1	5825	0.15	0.20	75.00
	Ant2	5825	0.15	0.19	78.95
11N20SISO	Ant1	5180	0.18	0.23	78.26
	Ant2	5180	0.18	0.23	78.26
	Ant1	5200	0.17	0.22	77.27
	Ant2	5200	0.17	0.22	77.27
	Ant1	5240	0.18	0.23	78.26
	Ant2	5240	0.17	0.22	77.27
	Ant1	5745	0.17	0.22	77.27
	Ant2	5745	0.17	0.22	77.27
	Ant1	5785	0.17	0.22	77.27
	Ant2	5785	0.17	0.22	77.27
	Ant1	5825	0.18	0.23	78.26
	Ant2	5825	0.17	0.22	77.27
11N40SISO	Ant1	5190	0.18	0.23	78.26
	Ant2	5190	0.18	0.22	81.82
	Ant1	5230	0.18	0.23	78.26
	Ant2	5230	0.18	0.22	81.82
	Ant1	5755	0.18	0.22	81.82
	Ant2	5755	0.18	0.23	78.26
	Ant1	5795	0.18	0.22	81.82
	Ant2	5795	0.18	0.23	78.26
11AC20SISO	Ant1	5180	0.16	0.21	76.19
	Ant2	5180	0.17	0.22	77.27
	Ant1	5200	0.17	0.22	77.27
	Ant2	5200	0.16	0.21	76.19
	Ant1	5240	0.16	0.21	76.19

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	Ant2	5240	0.16	0.21	76.19
	Ant1	5745	0.17	0.22	77.27
	Ant2	5745	0.16	0.21	76.19
	Ant1	5785	0.16	0.21	76.19
	Ant2	5785	0.16	0.21	76.19
	Ant1	5825	0.16	0.21	76.19
	Ant2	5825	0.16	0.21	76.19
11AC40SISO	Ant1	5190	0.15	0.20	75.00
	Ant2	5190	0.15	0.20	75.00
	Ant1	5230	0.15	0.20	75.00
	Ant2	5230	0.16	0.21	76.19
	Ant1	5755	0.15	0.20	75.00
	Ant2	5755	0.15	0.20	75.00
	Ant1	5795	0.16	0.21	76.19
11AC80SISO	Ant2	5795	0.16	0.21	76.19
	Ant1	5210	0.16	0.21	76.19
	Ant2	5210	0.17	0.22	77.27
	Ant1	5775	0.16	0.21	76.19
	Ant2	5775	0.16	0.21	76.19

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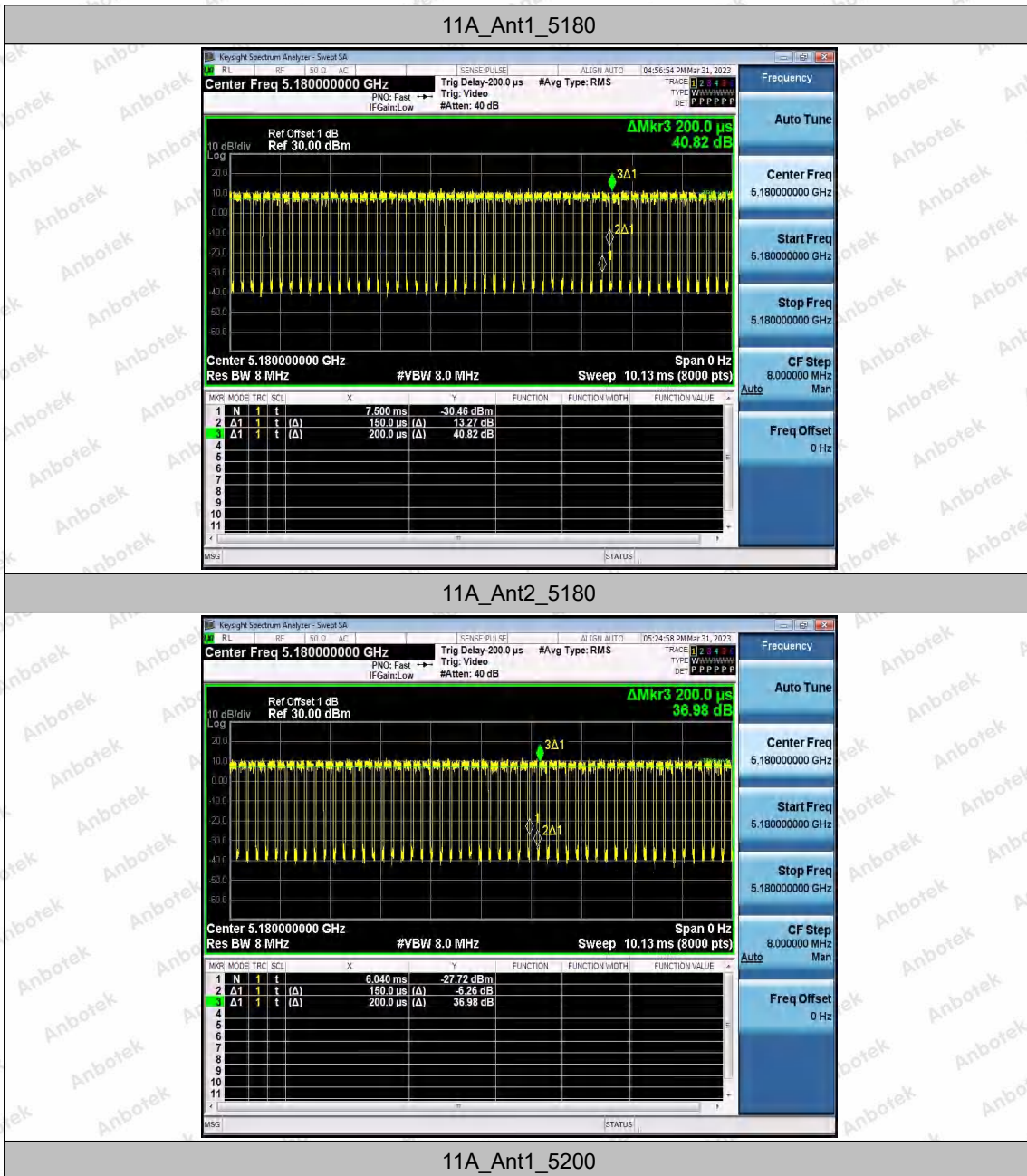
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## Test Graphs



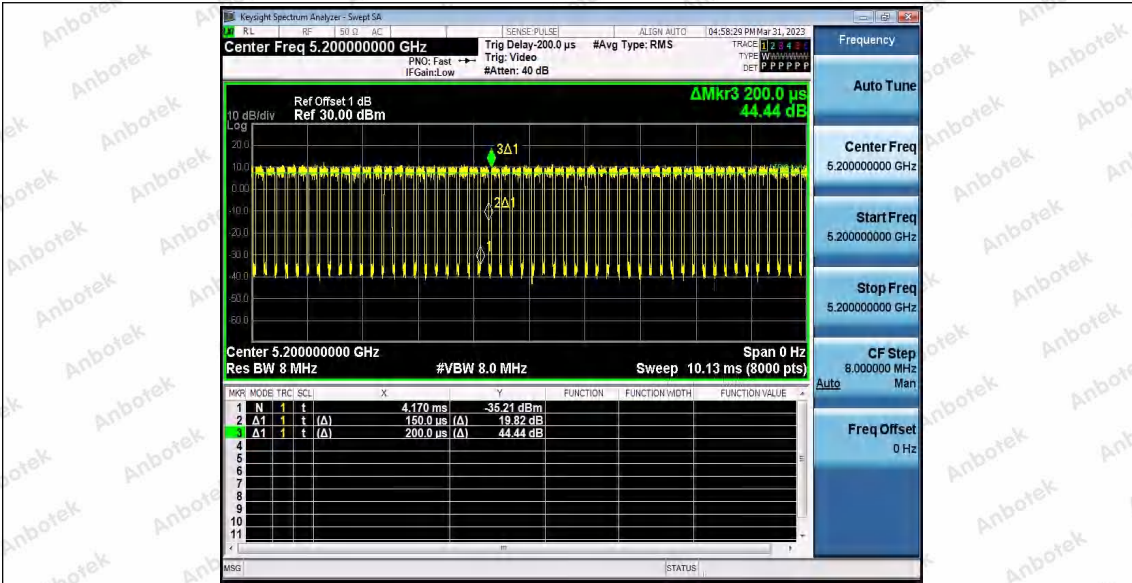
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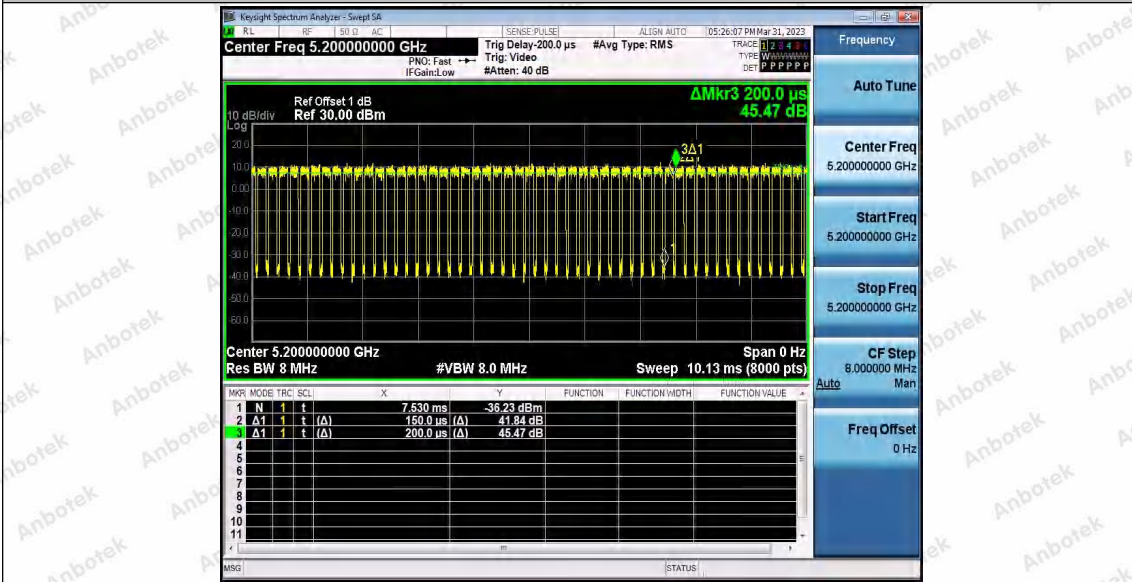
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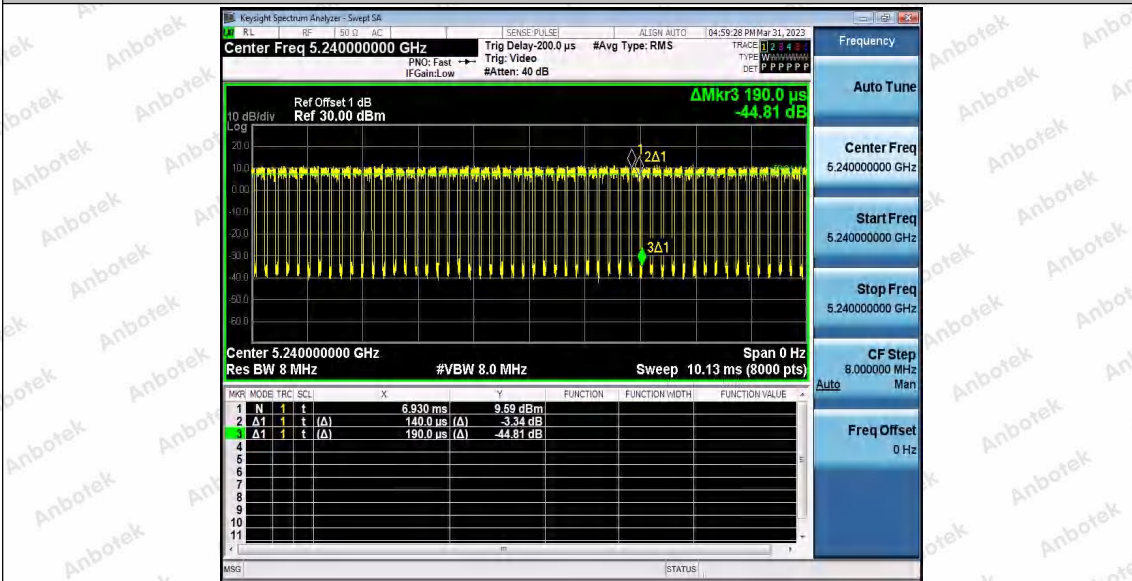




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11A\_Ant1\_5240



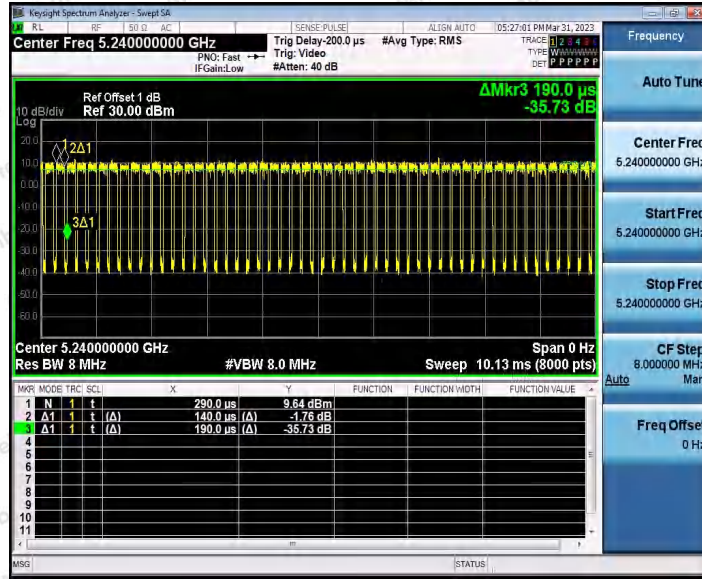
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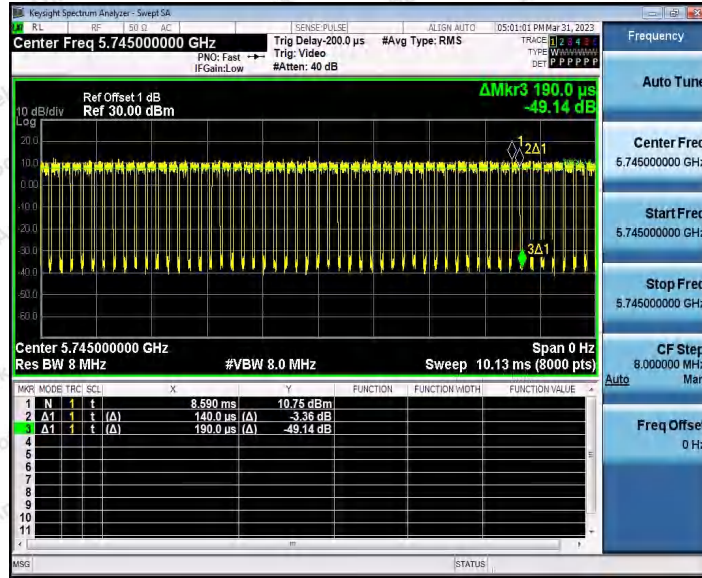
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11A\_Ant2\_5240



11A\_Ant1\_5745



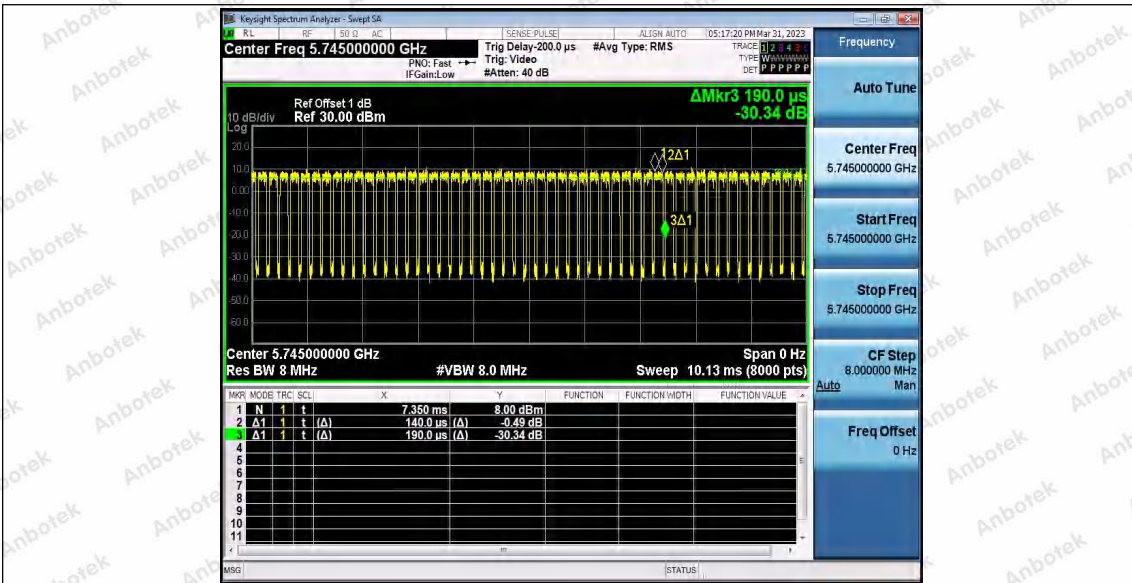
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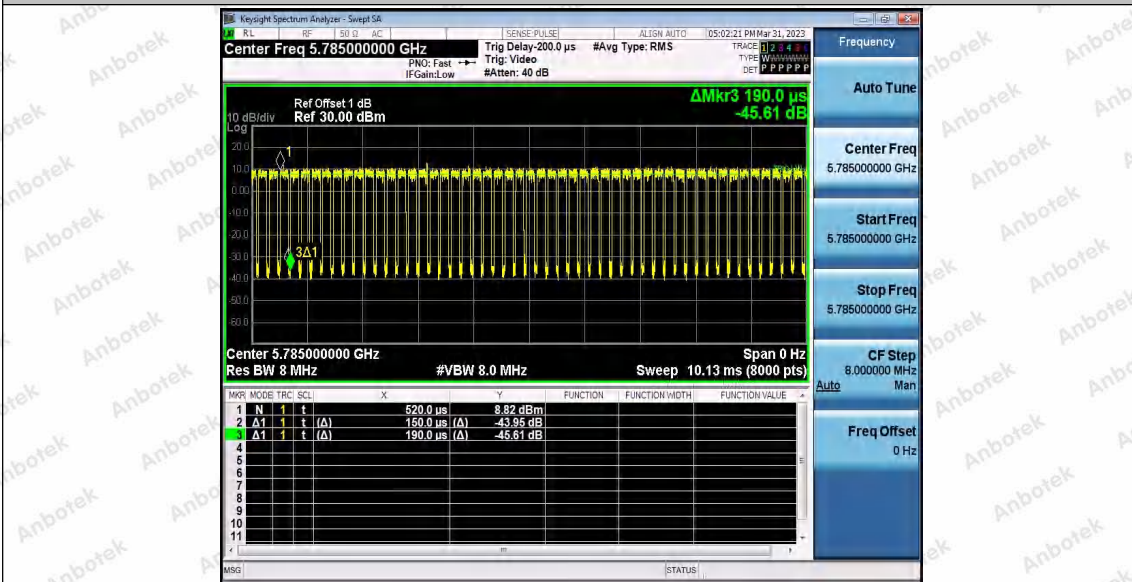
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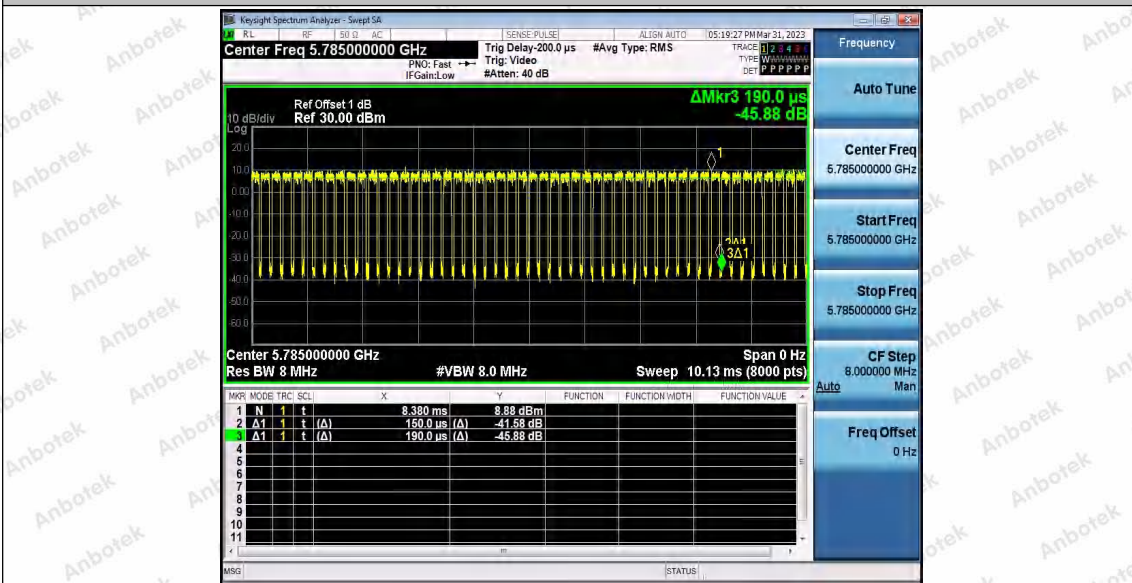




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11A\_Ant2\_5785



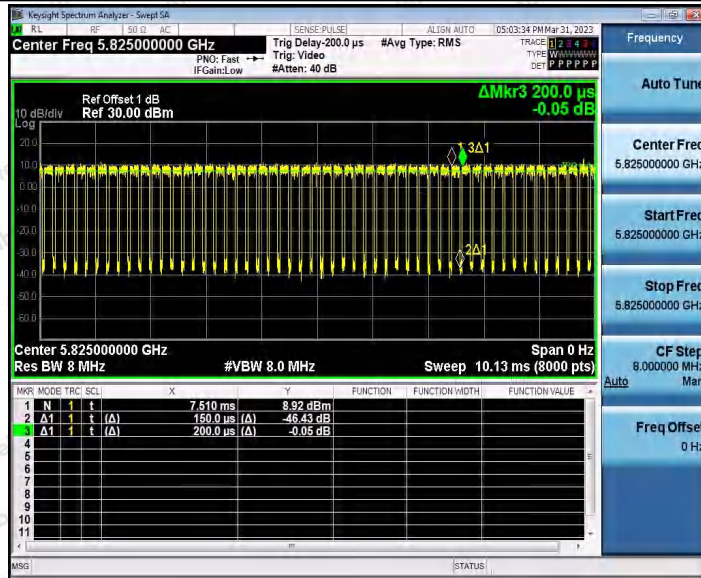
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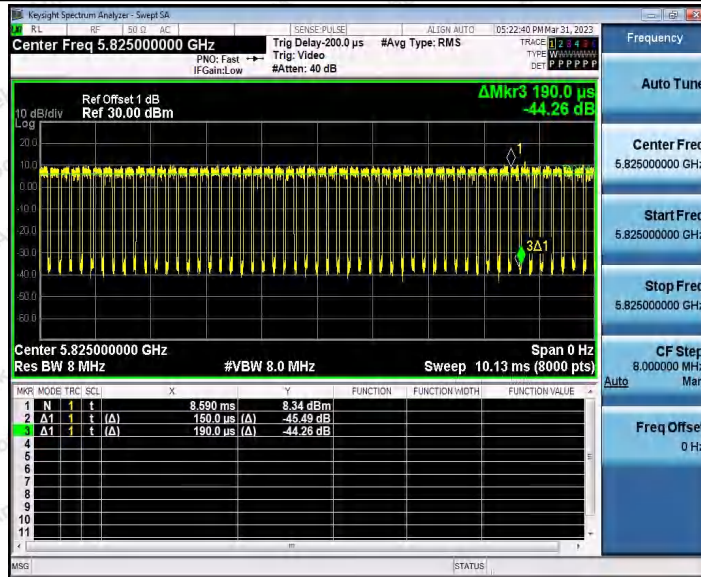
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11A\_Ant1\_5825



11A\_Ant2\_5825



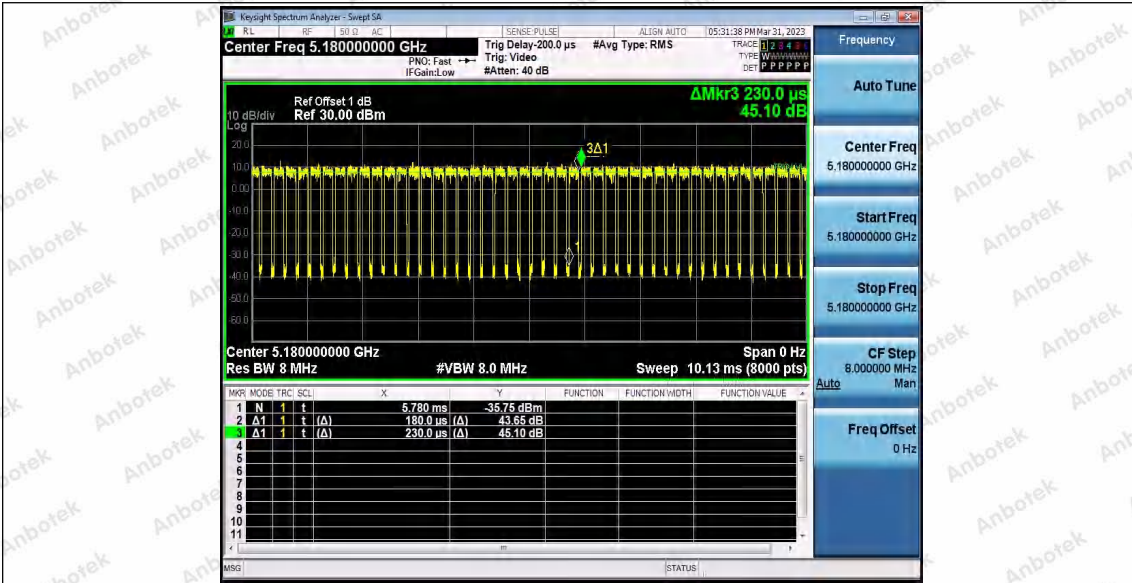
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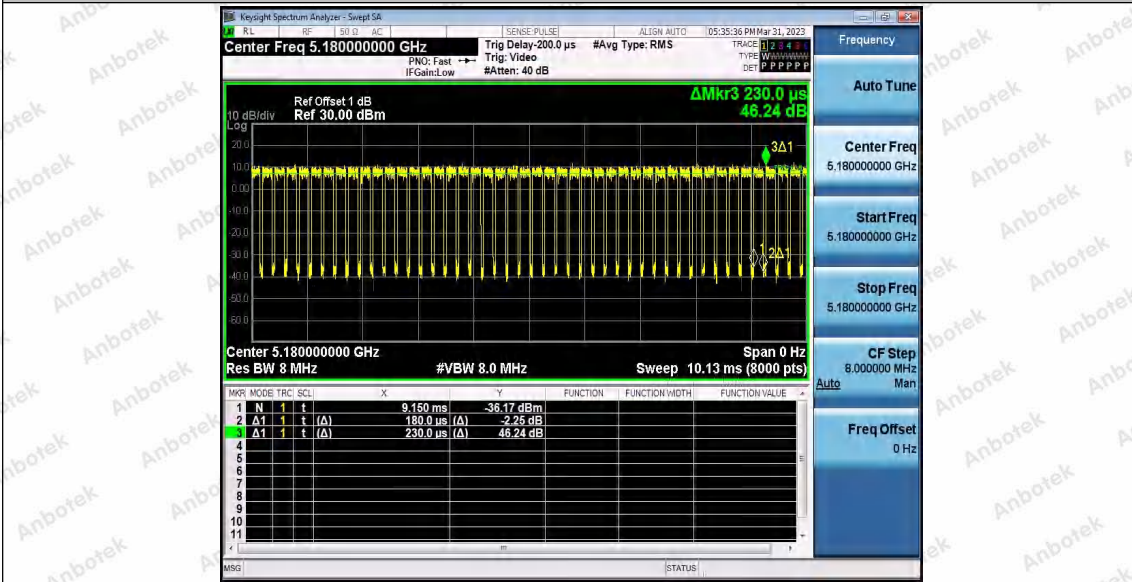
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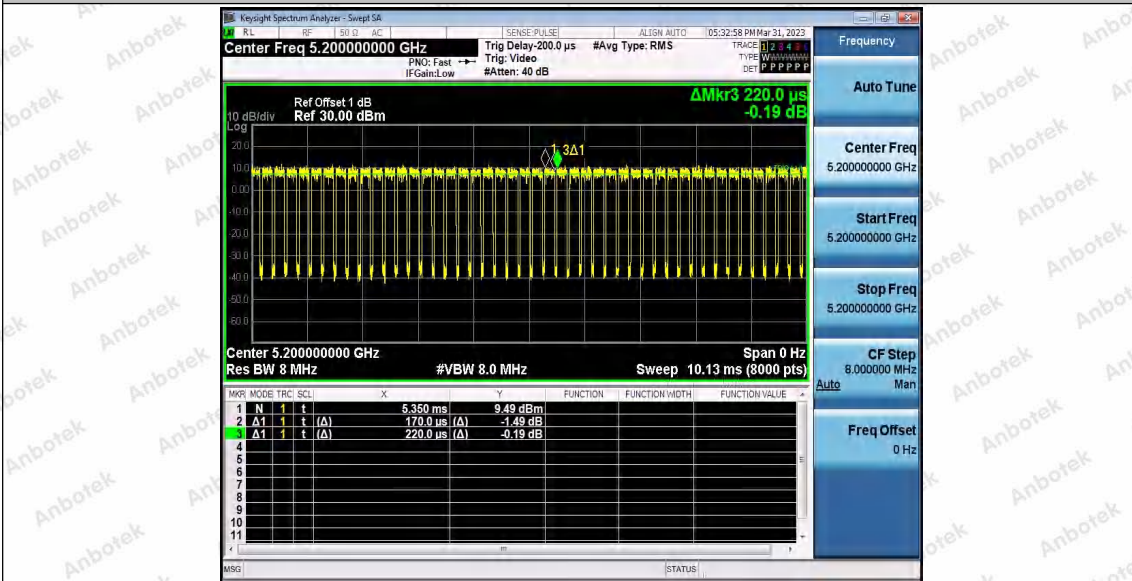




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11N20SISO\_Ant1\_5200



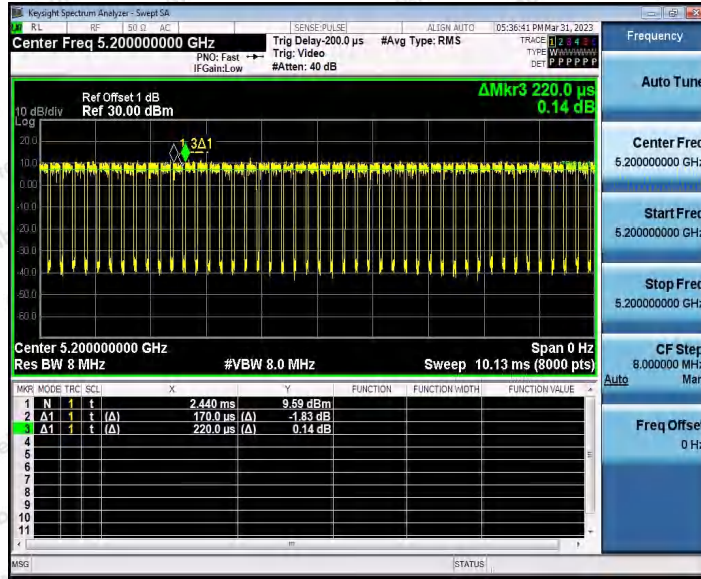
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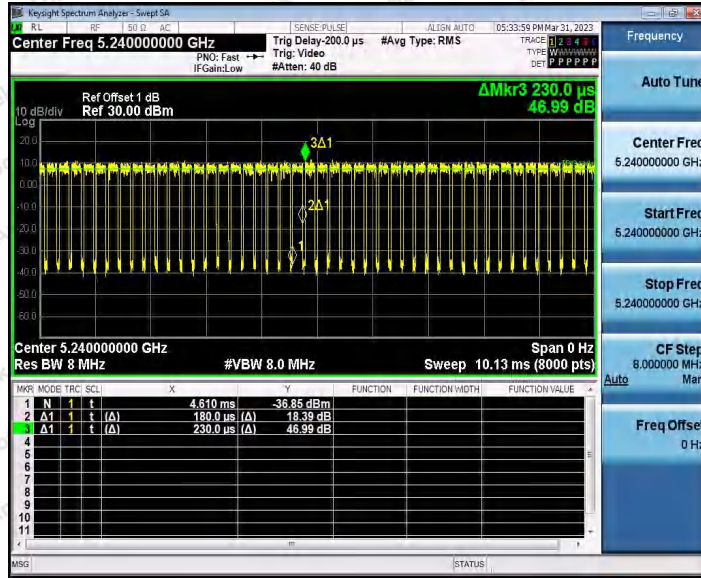
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### 11N20SISO\_Ant2\_5200



### 11N20SISO\_Ant1\_5240



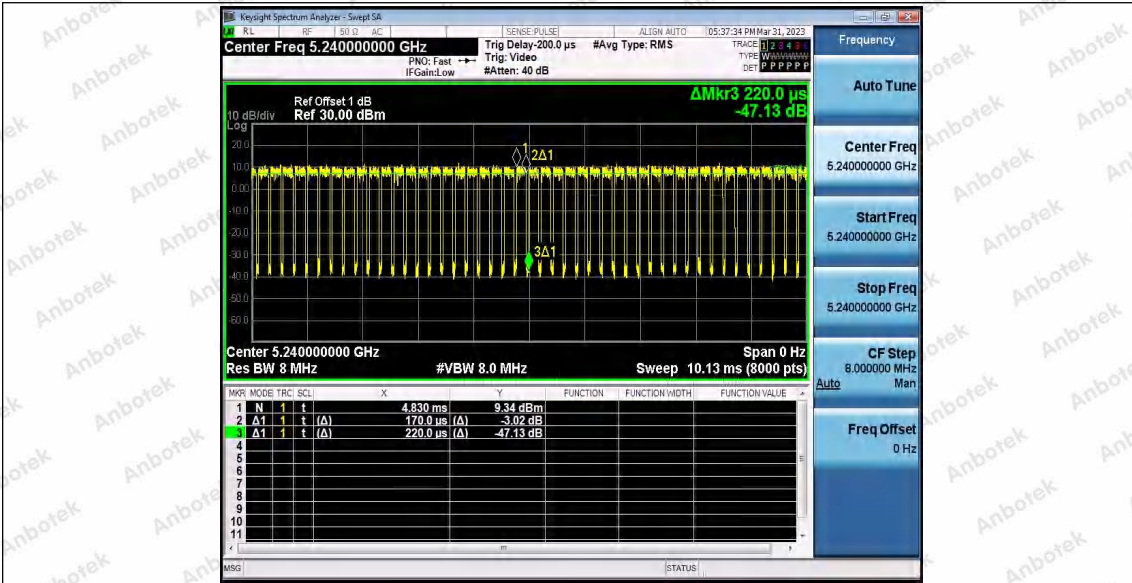
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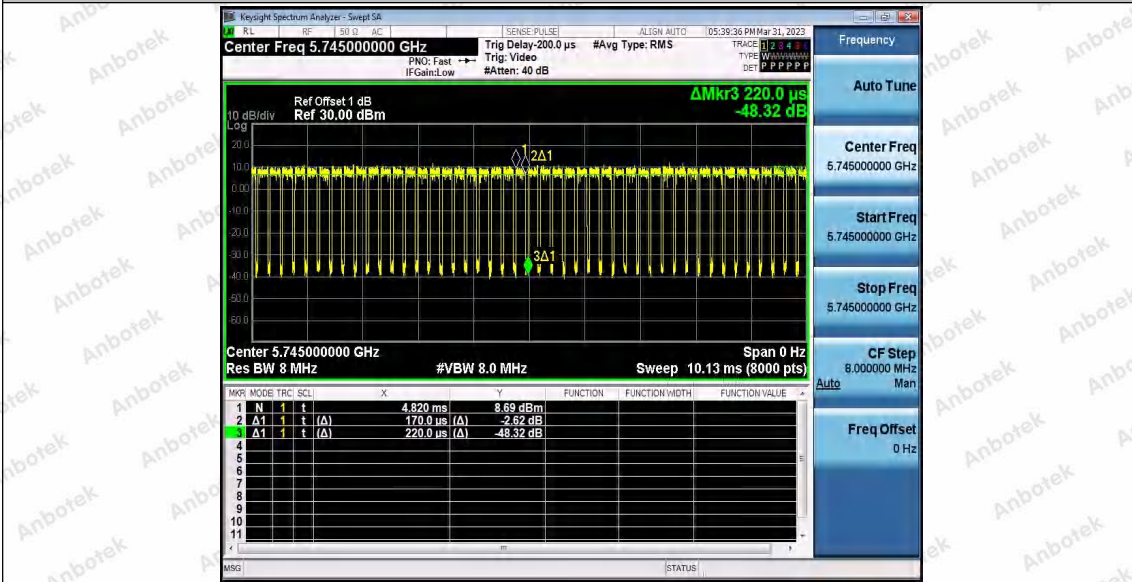
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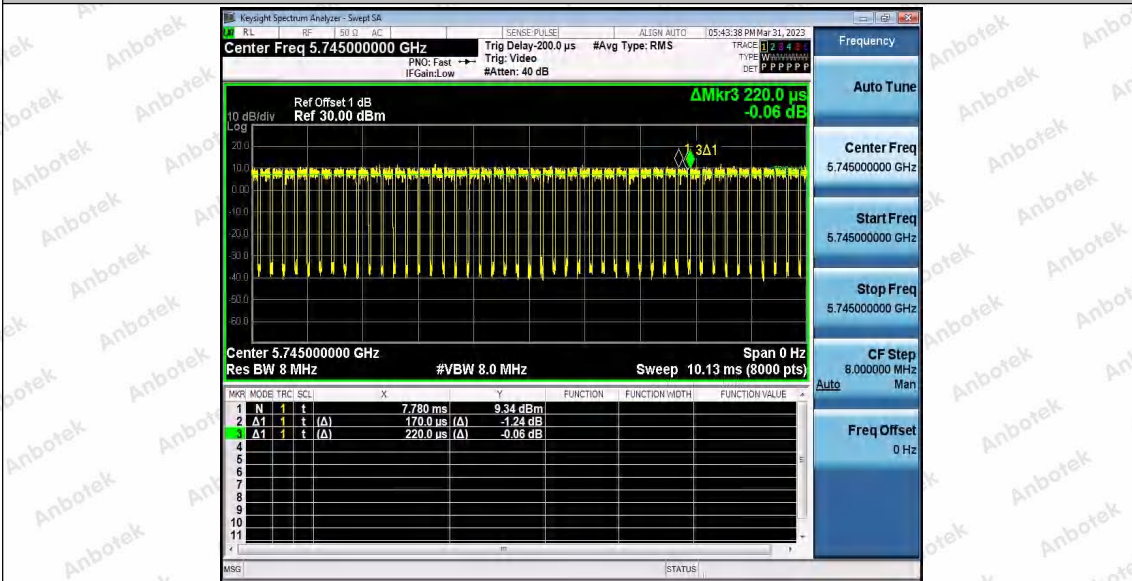




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11N20SISO\_Ant2\_5745



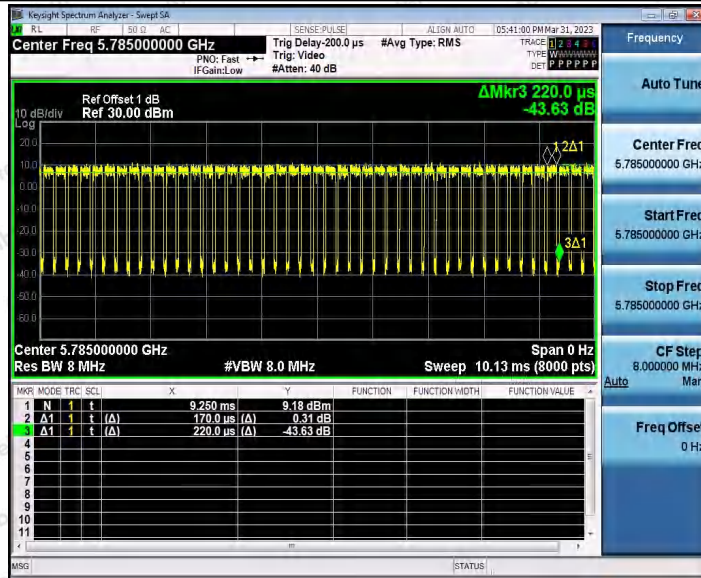
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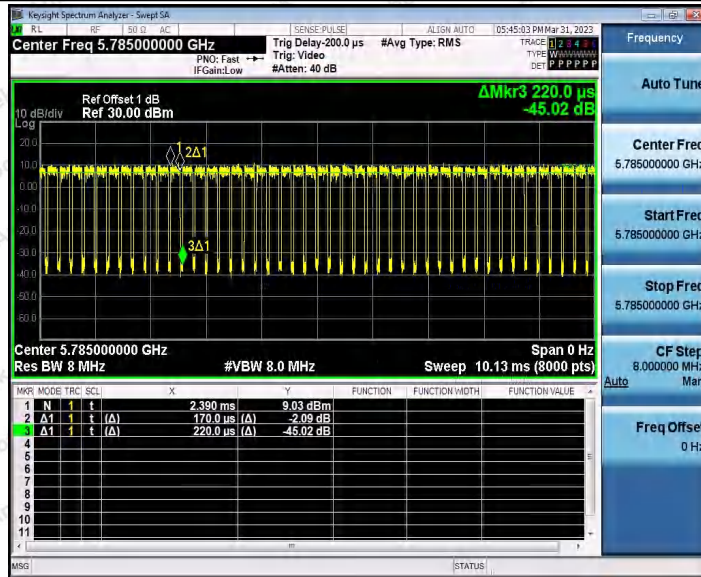
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### 11N20SISO\_Ant1\_5785



### 11N20SISO\_Ant2\_5785



### 11N20SISO\_Ant1\_5825

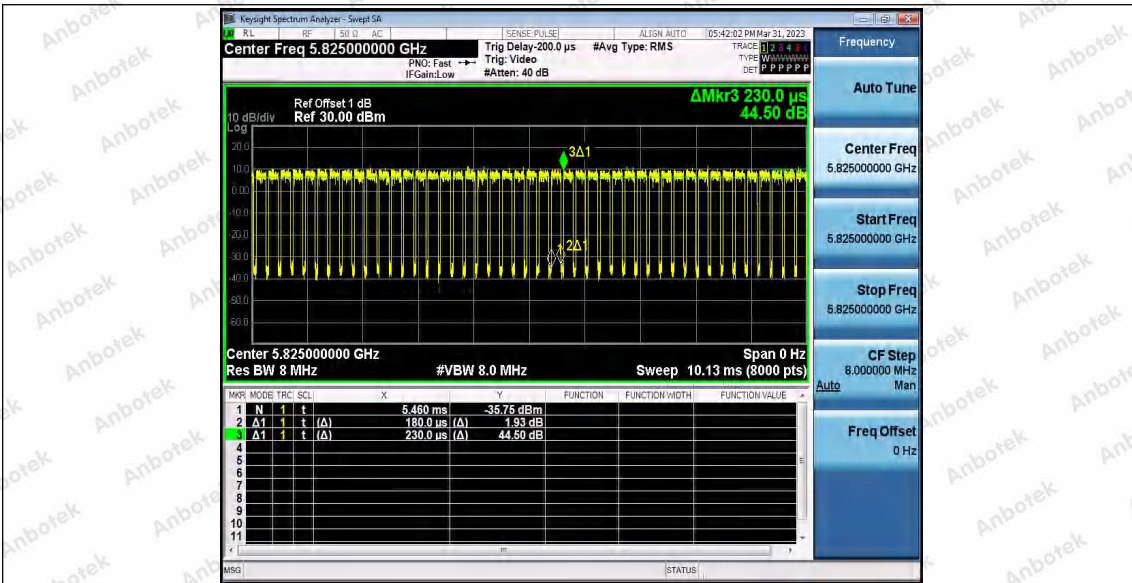
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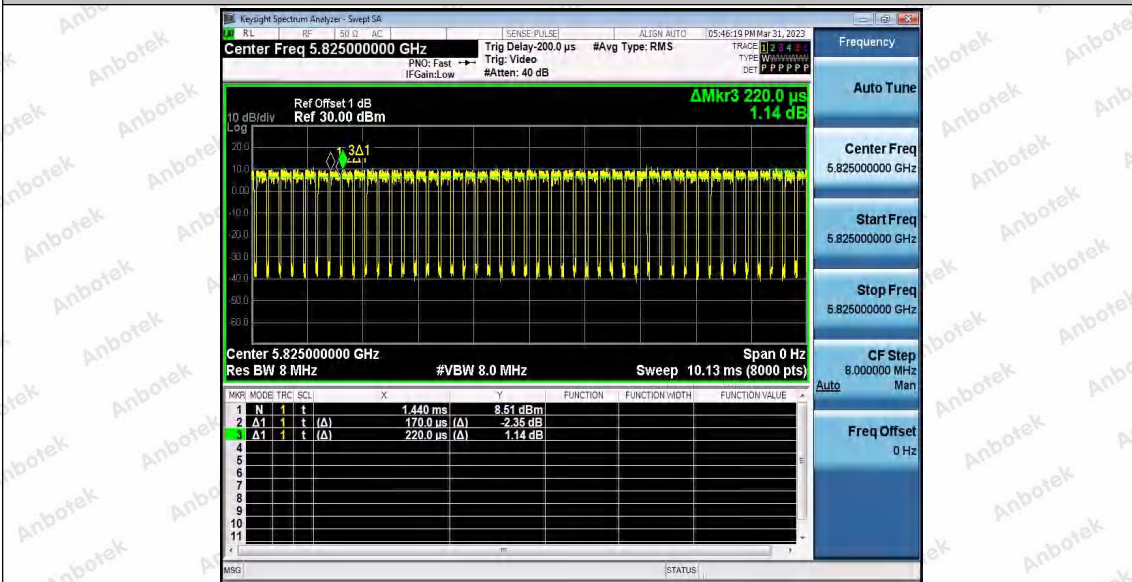
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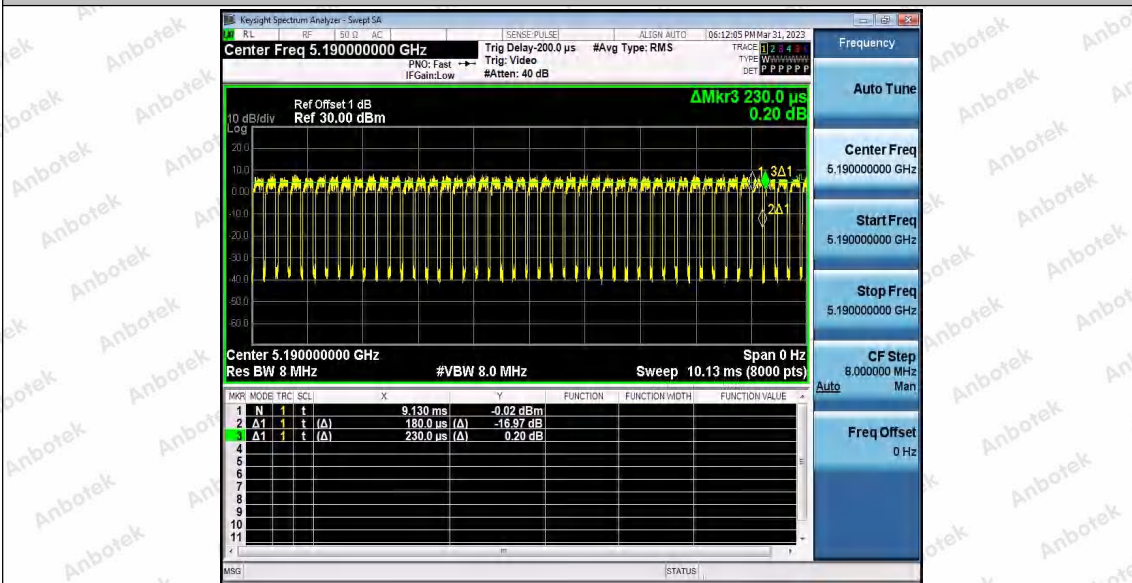




11N20SISO\_Ant2\_5825



11N40SISO\_Ant1\_5190



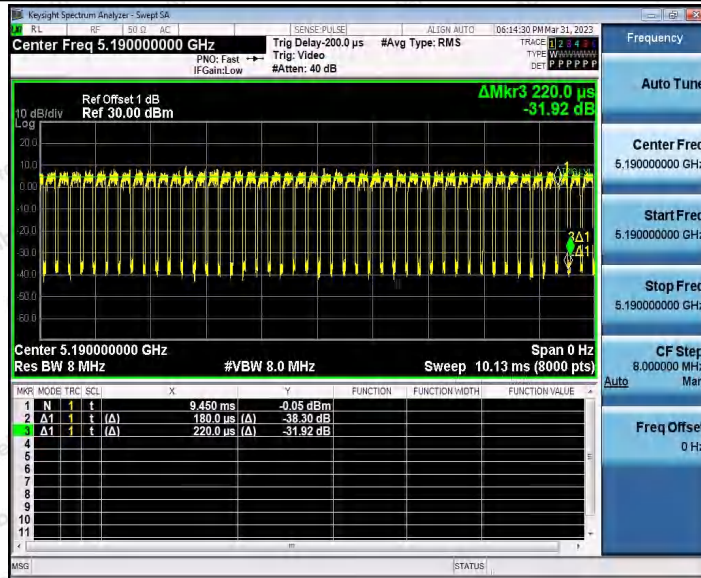
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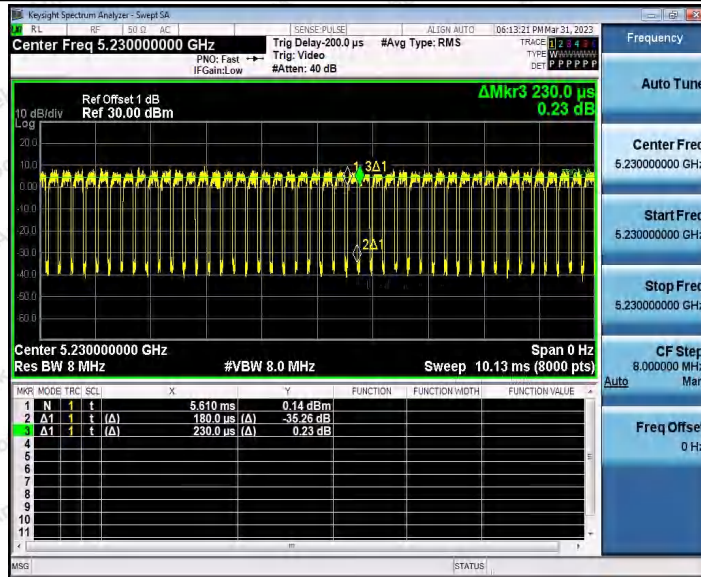
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11N40SISO\_Ant2\_5190



11N40SISO\_Ant1\_5230



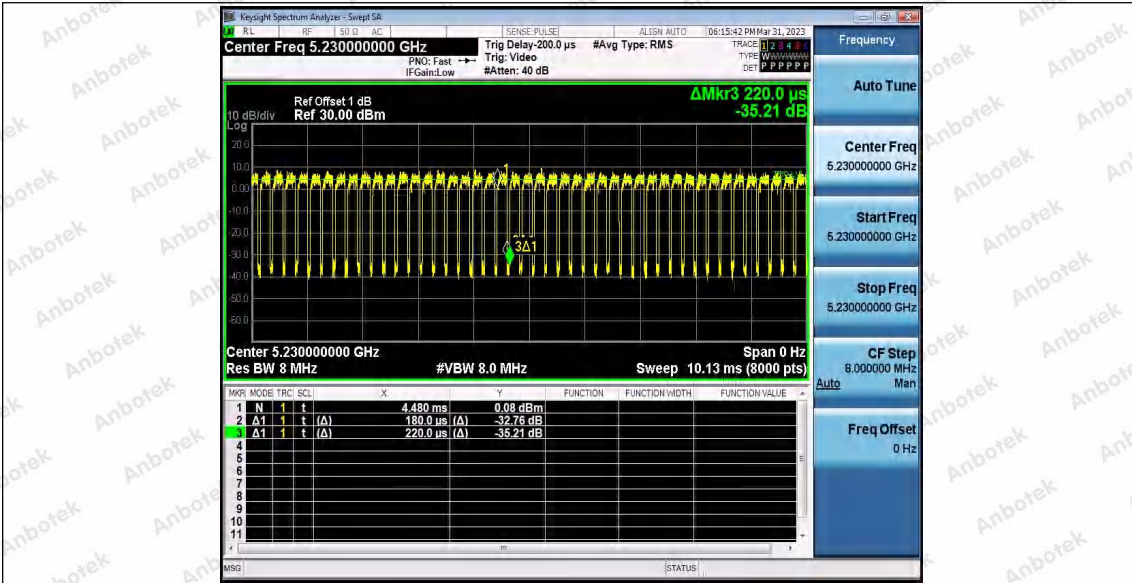
11N40SISO\_Ant2\_5230

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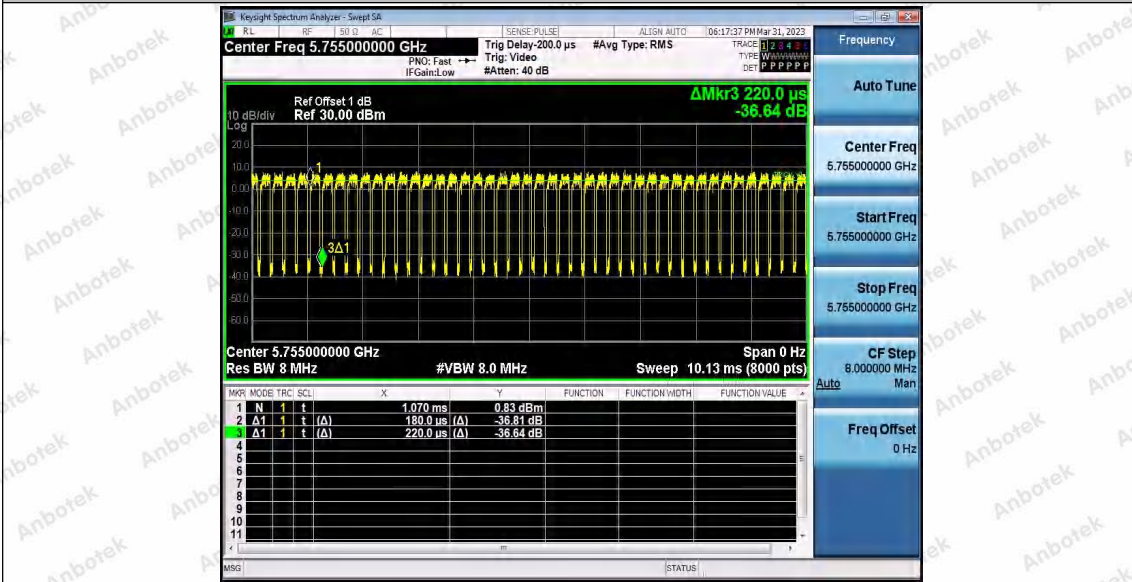
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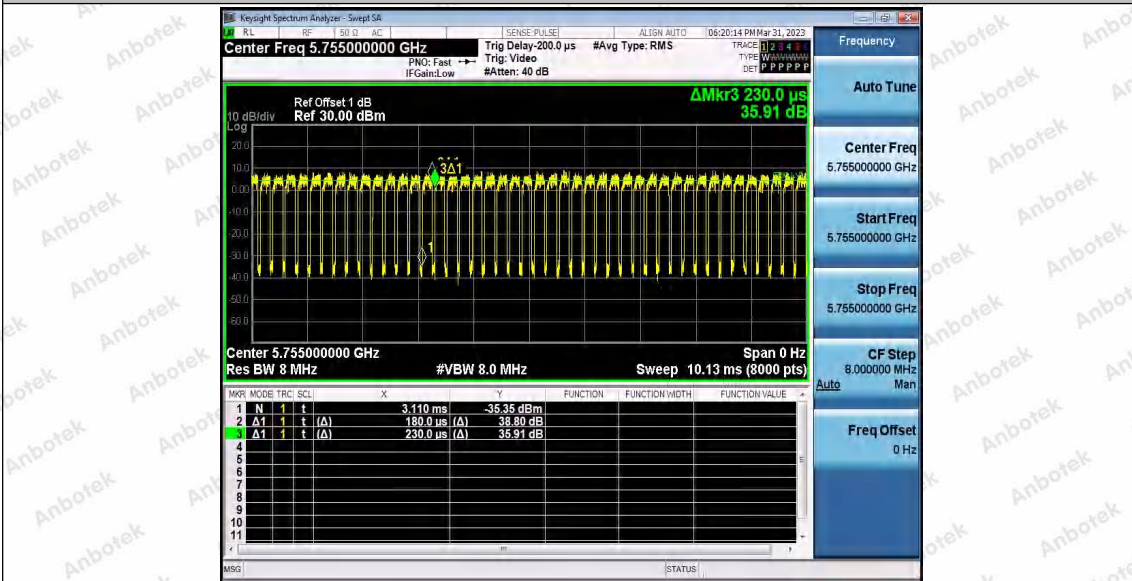




11N40SISO\_Ant1\_5755



11N40SISO\_Ant2\_5755



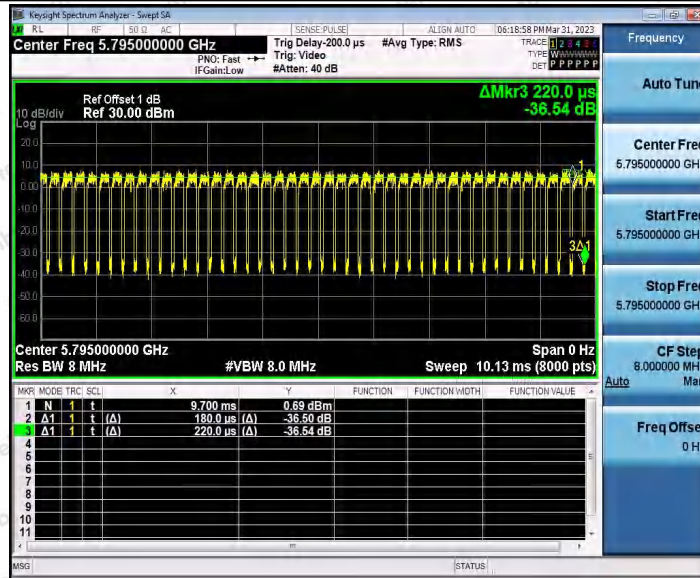
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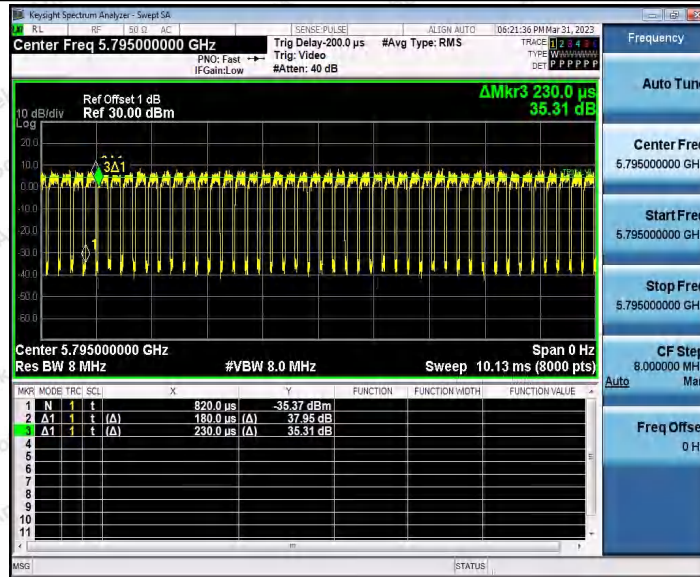
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11N40SISO\_Ant1\_5795



11N40SISO\_Ant2\_5795



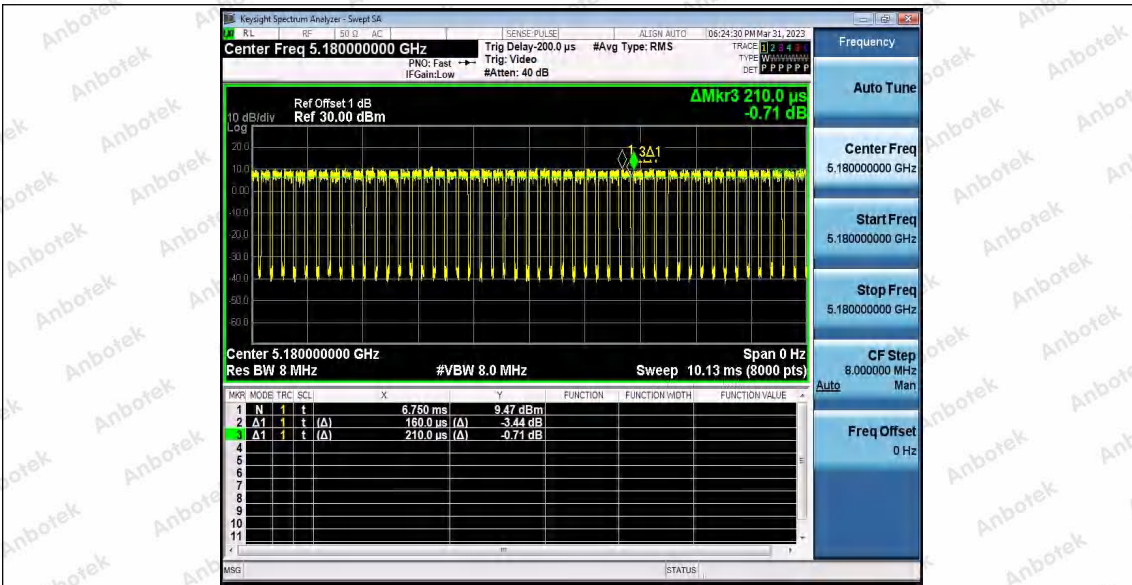
11AC20SISO\_Ant1\_5180

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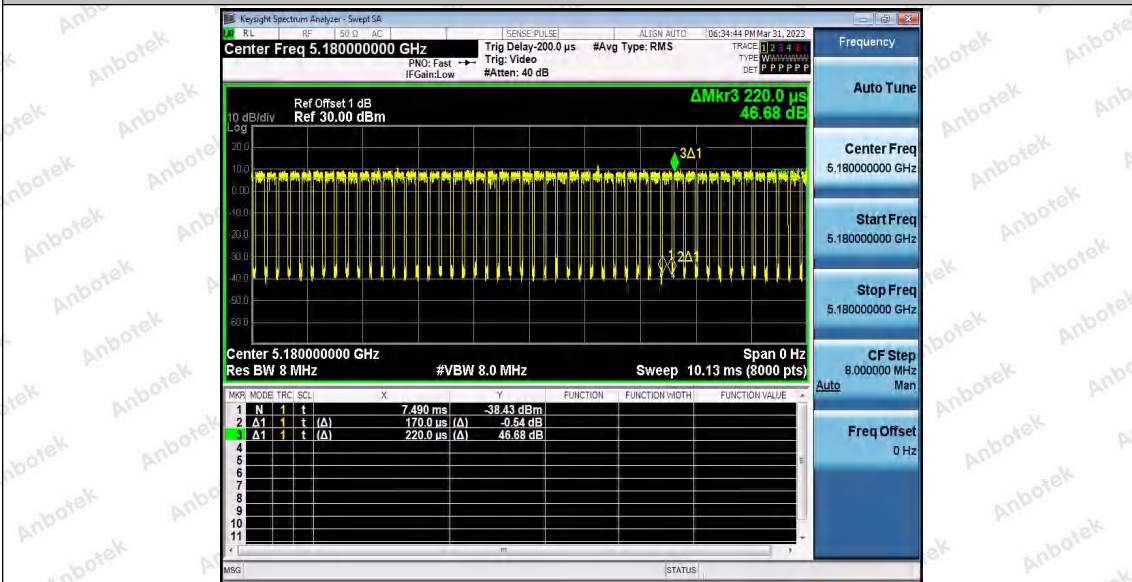
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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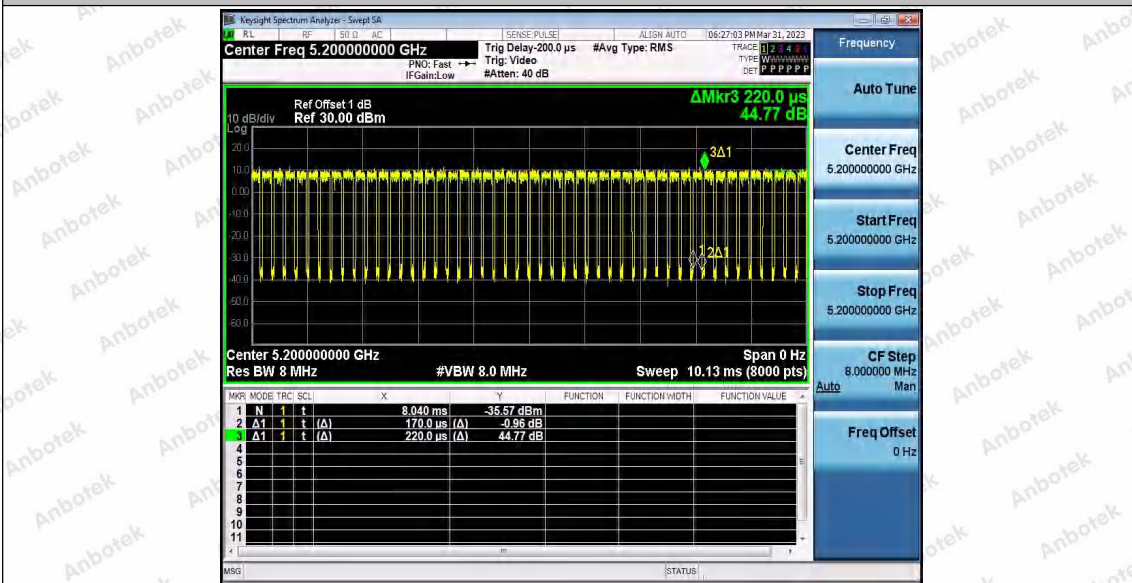




11AC20SISO\_Ant2\_5180



11AC20SISO\_Ant1\_5200



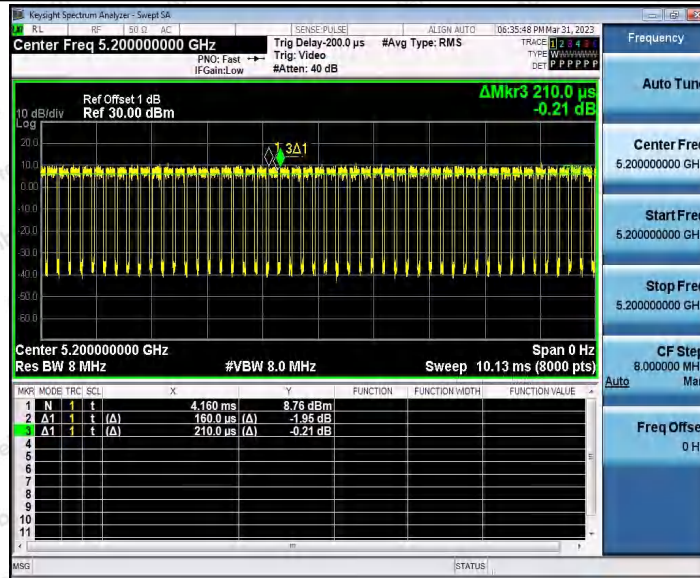
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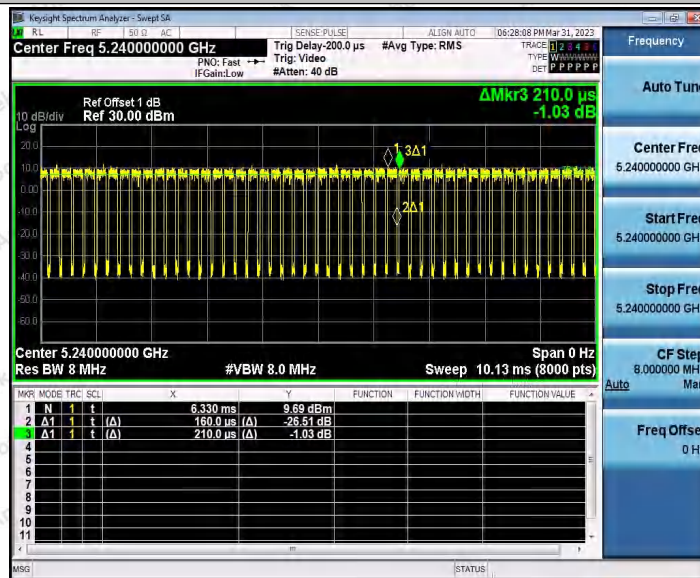
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11AC20SISO\_Ant2\_5200



11AC20SISO\_Ant1\_5240



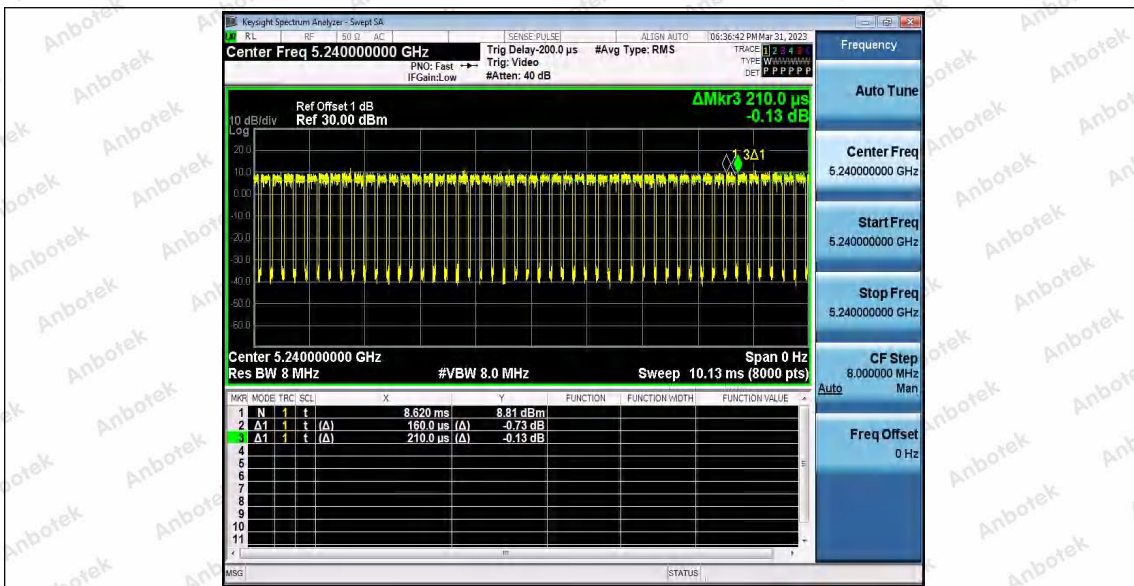
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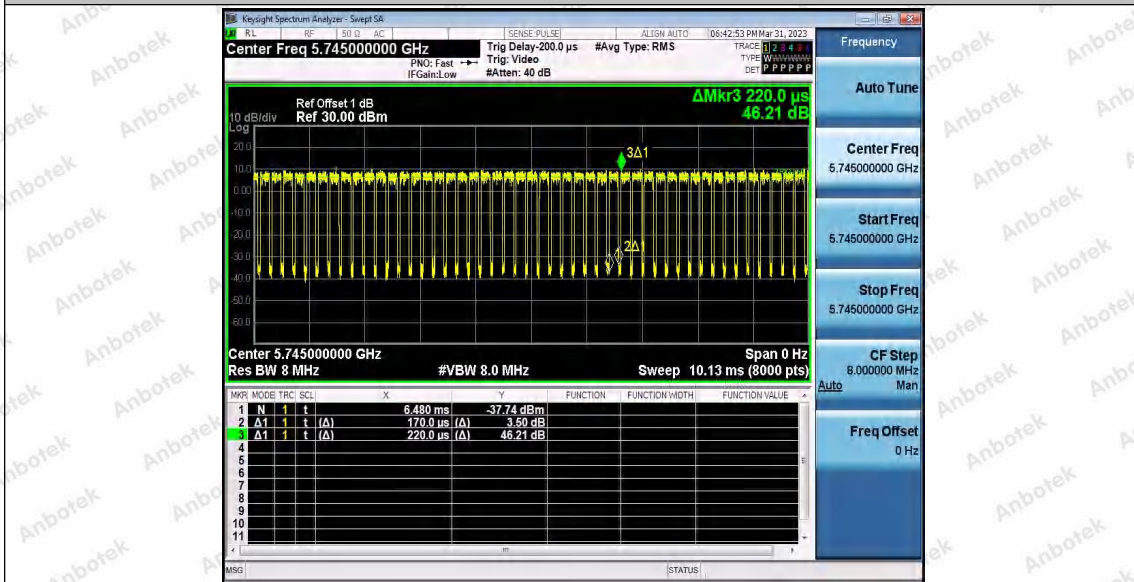
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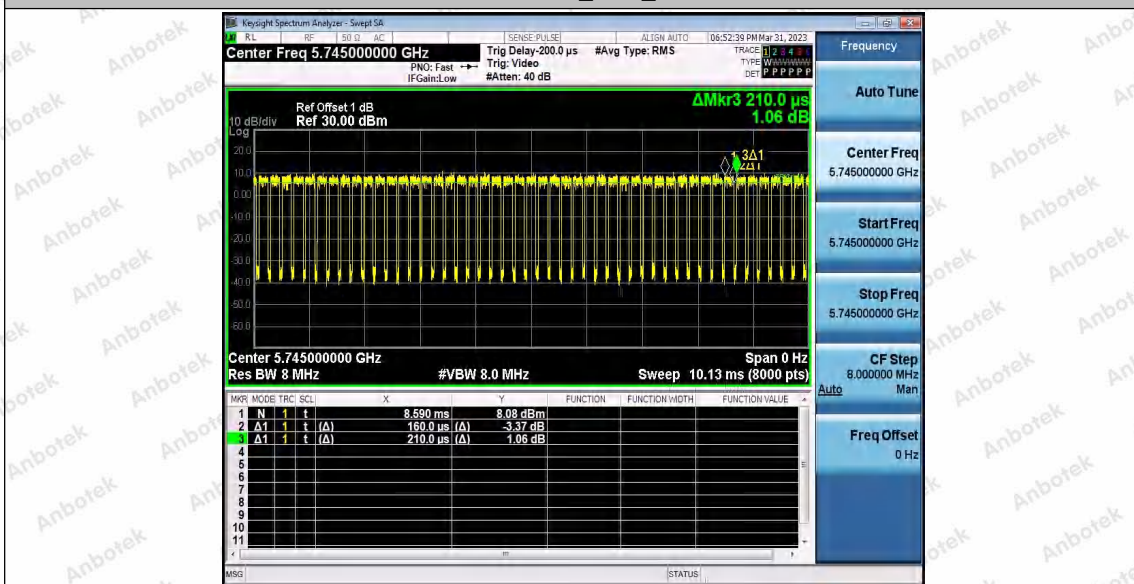




11AC20SISO\_Ant1\_5745



11AC20SISO\_Ant2\_5745



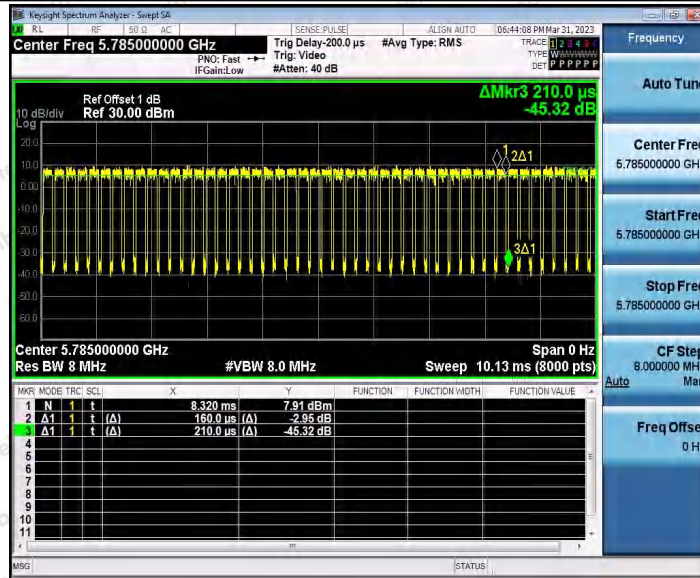
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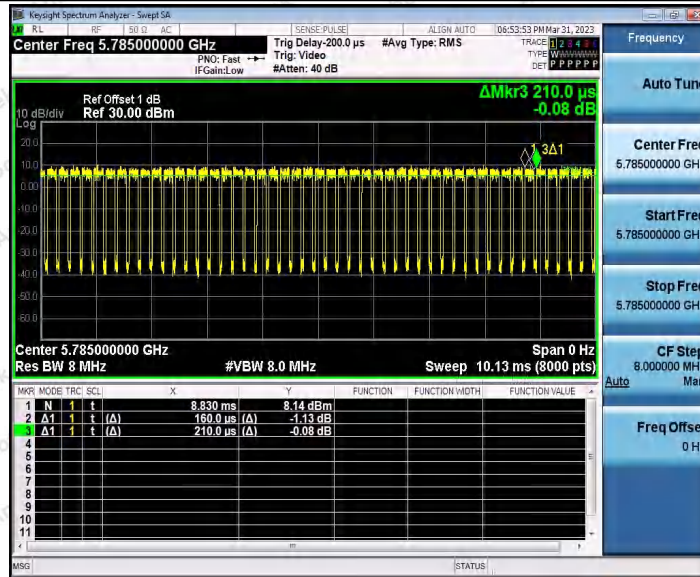
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11AC20SISO\_Ant1\_5785



11AC20SISO\_Ant2\_5785



11AC20SISO\_Ant1\_5825

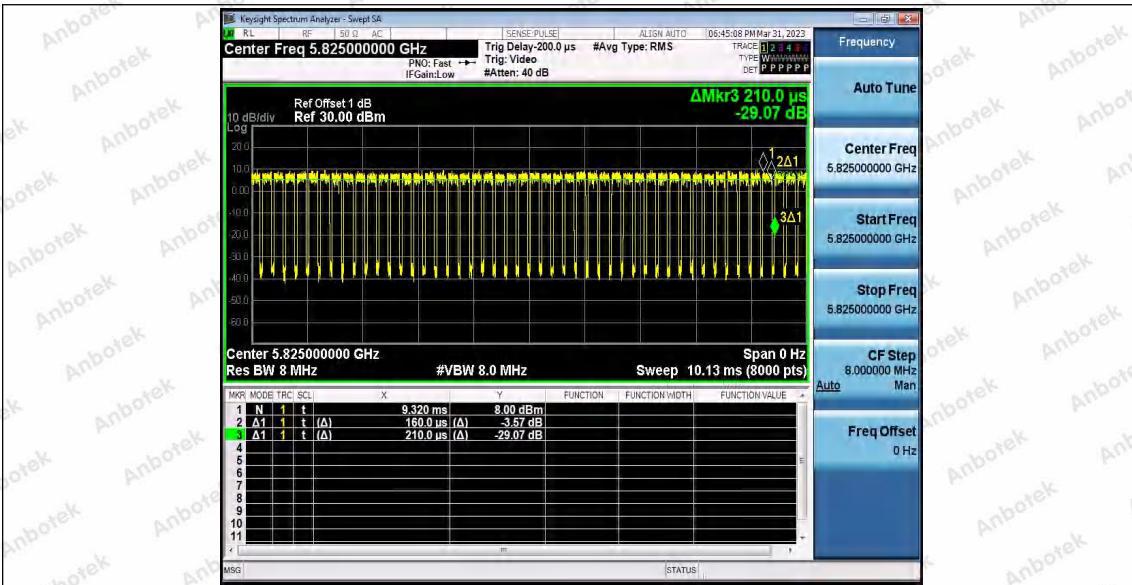
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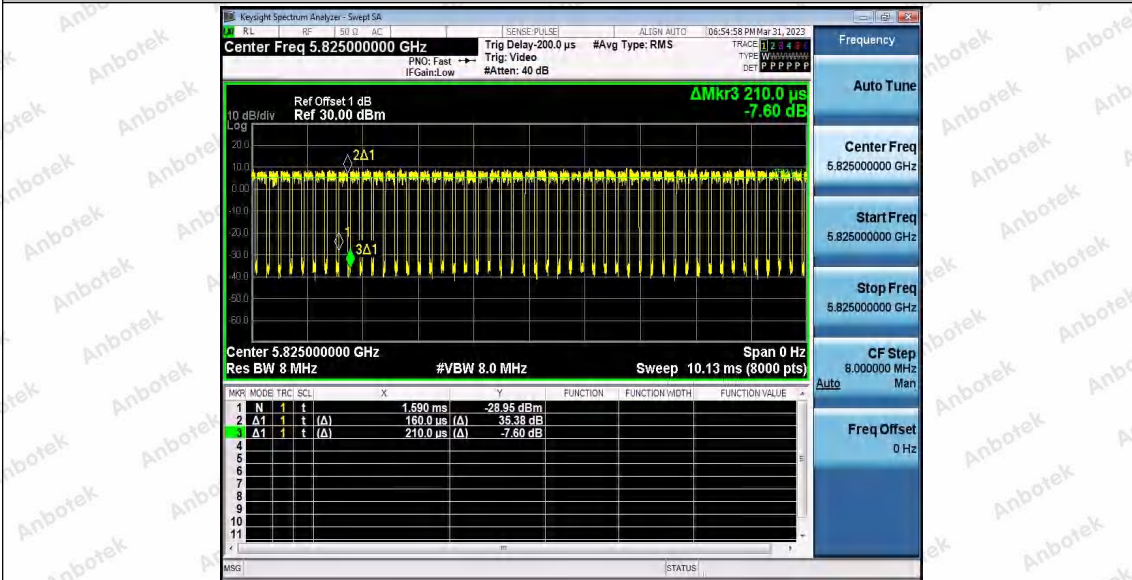
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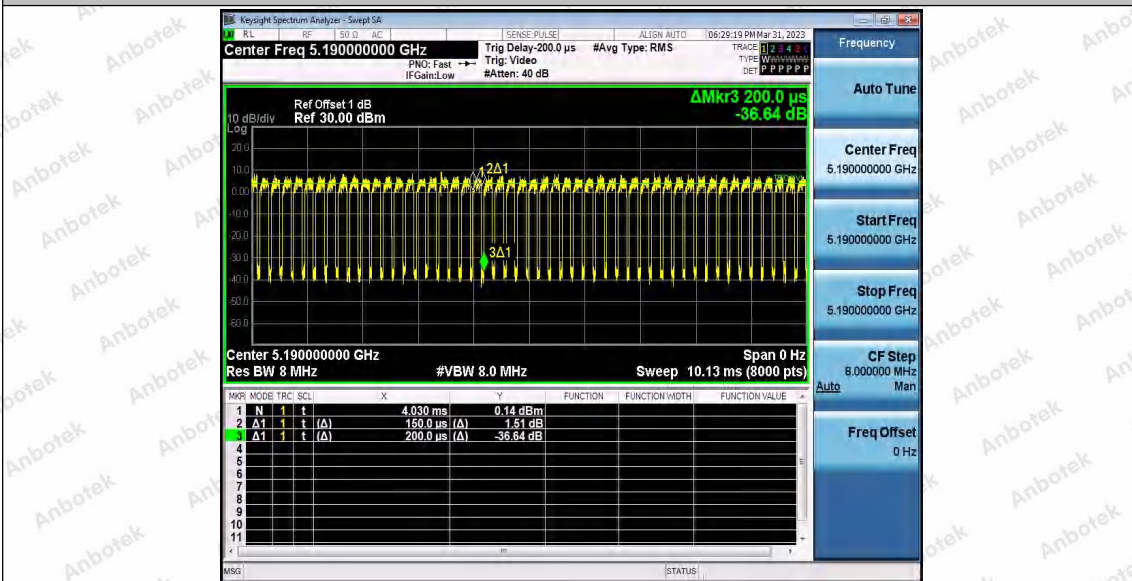




11AC20SISO\_Ant2\_5825



11AC40SISO\_Ant1\_5190



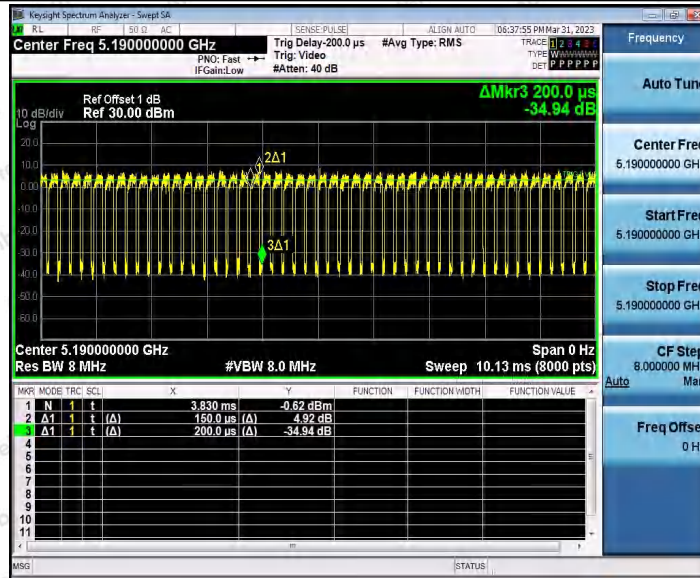
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 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

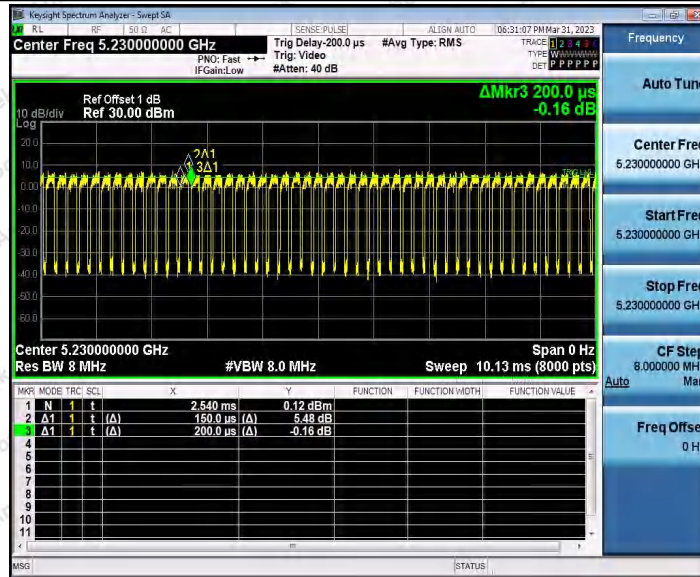
Hotline 400-003-0500  
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11AC40SISO\_Ant2\_5190



11AC40SISO\_Ant1\_5230



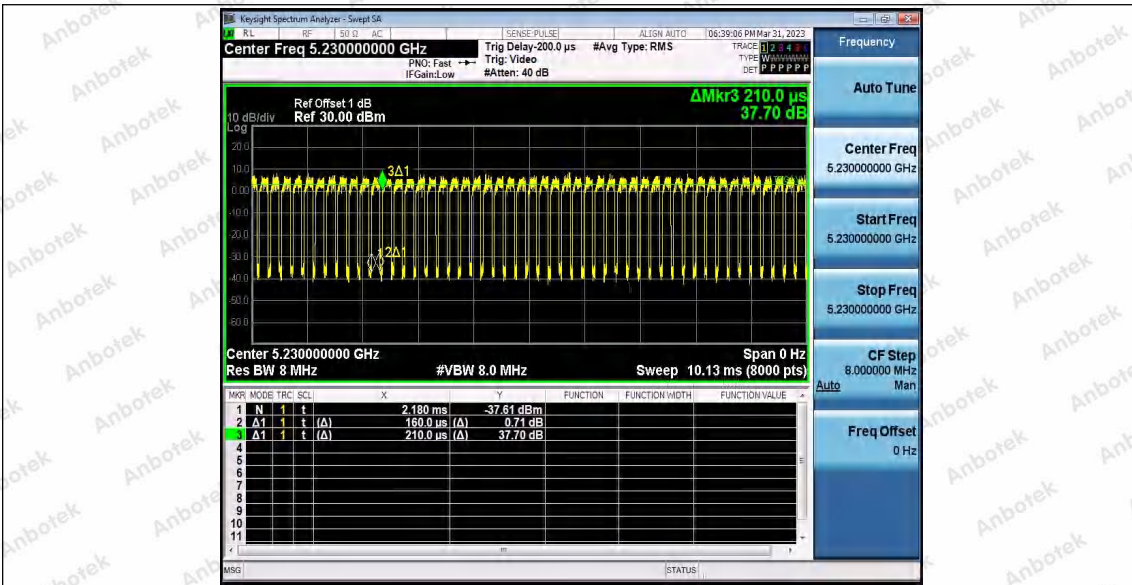
11AC40SISO\_Ant2\_5230

**Shenzhen Anbotek Compliance Laboratory Limited**

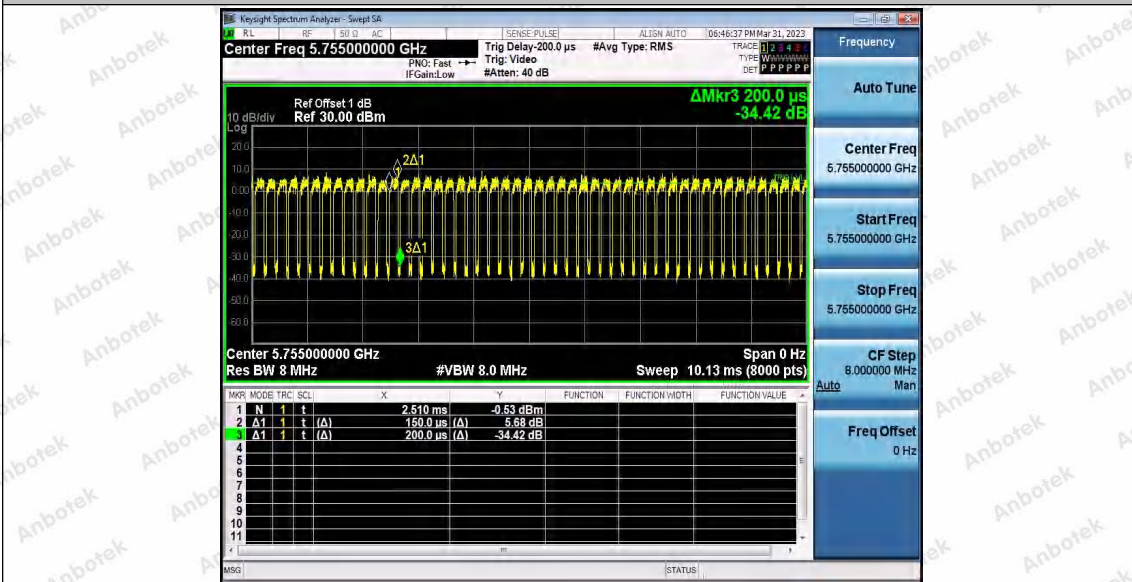
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

Hotline 400-003-0500  
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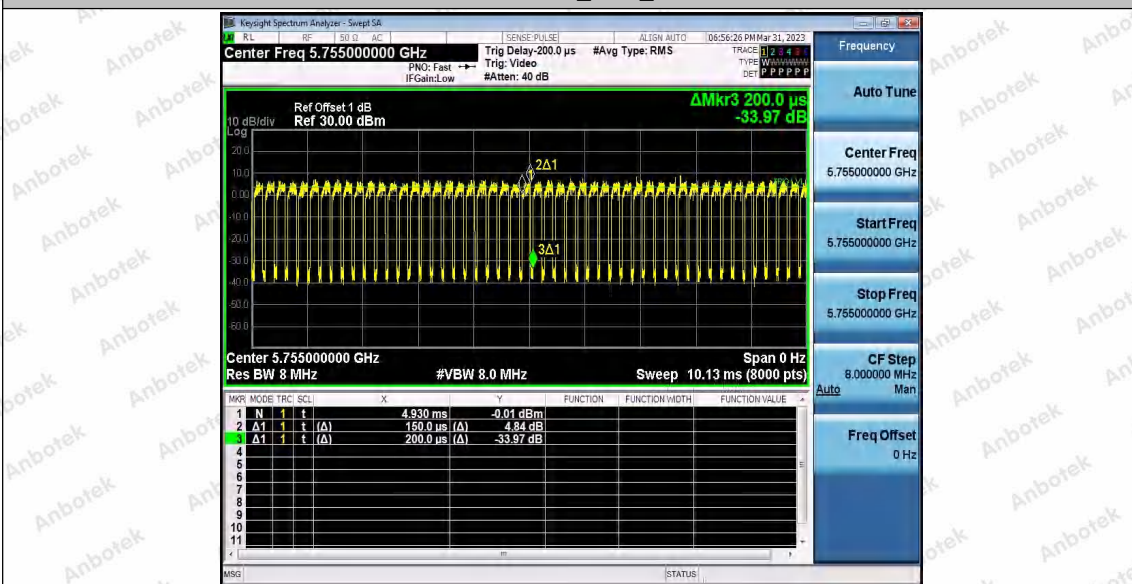




11AC40SISO\_Ant1\_5755



11AC40SISO\_Ant2\_5755



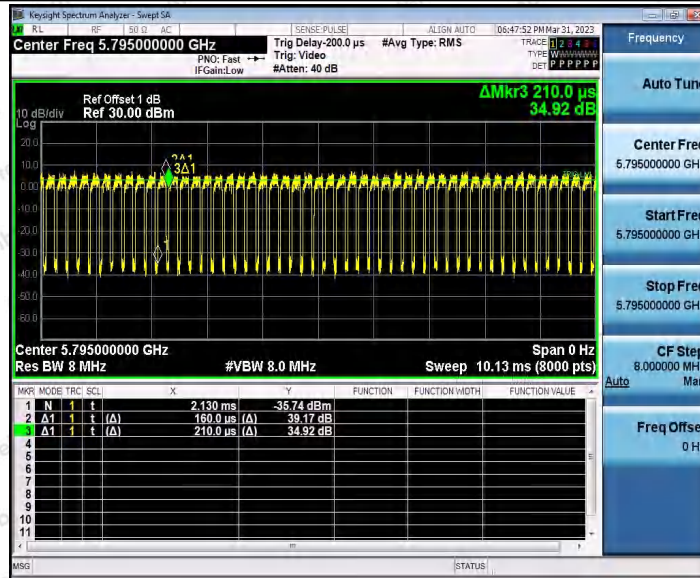
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 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

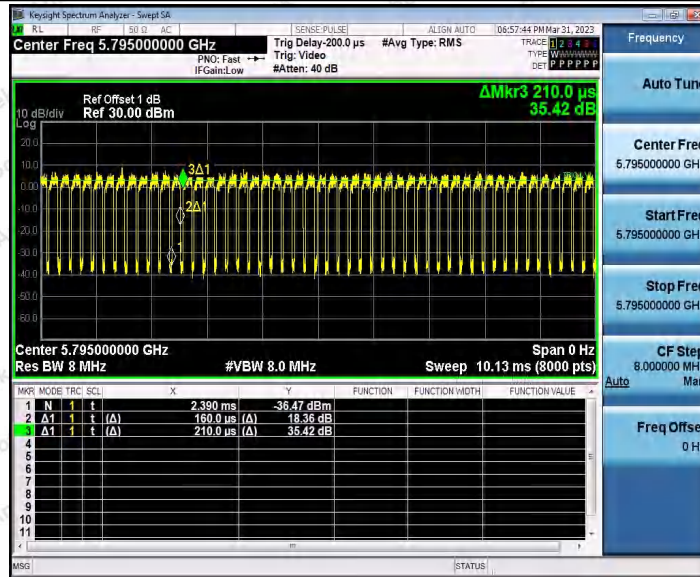
Hotline 400-003-0500  
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### 11AC40SISO\_Ant1\_5795



### 11AC40SISO\_Ant2\_5795



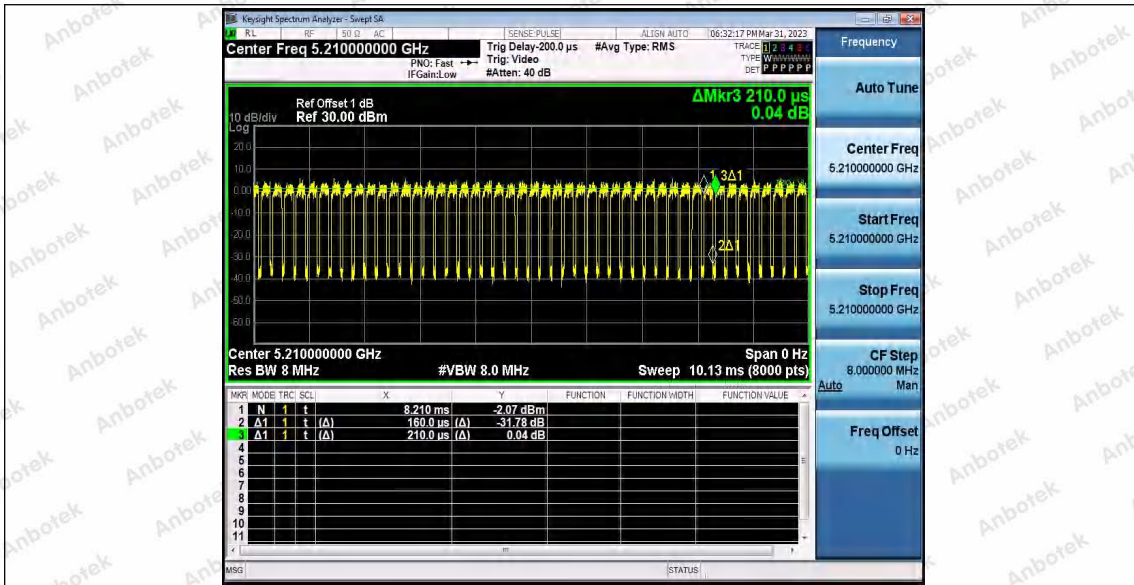
### 11AC80SISO\_Ant1\_5210

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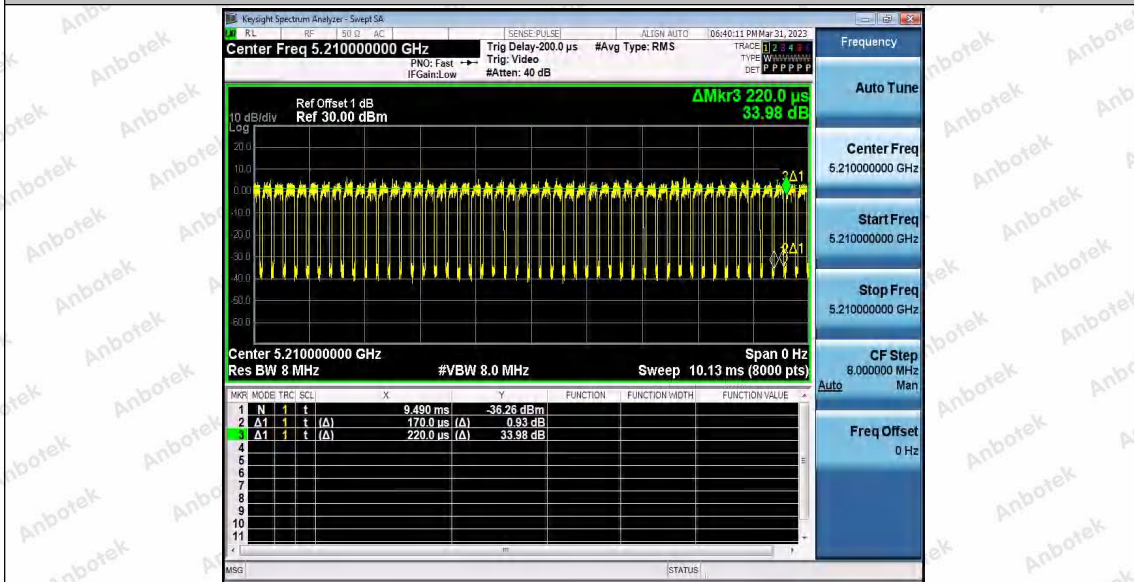
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

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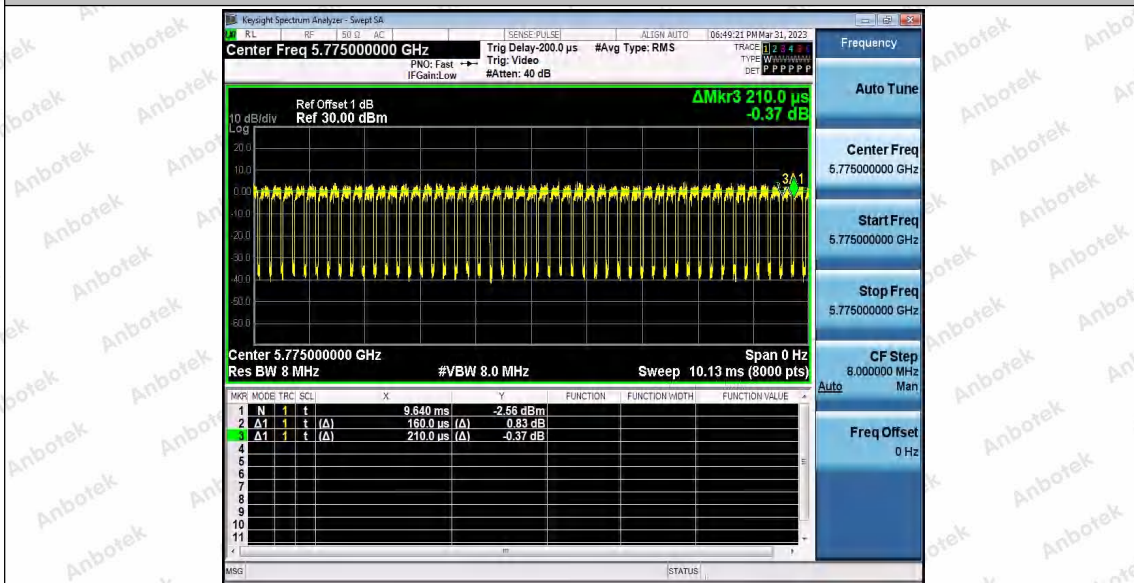




11AC80SISO\_Ant2\_5210



11AC80SISO\_Ant1\_5775

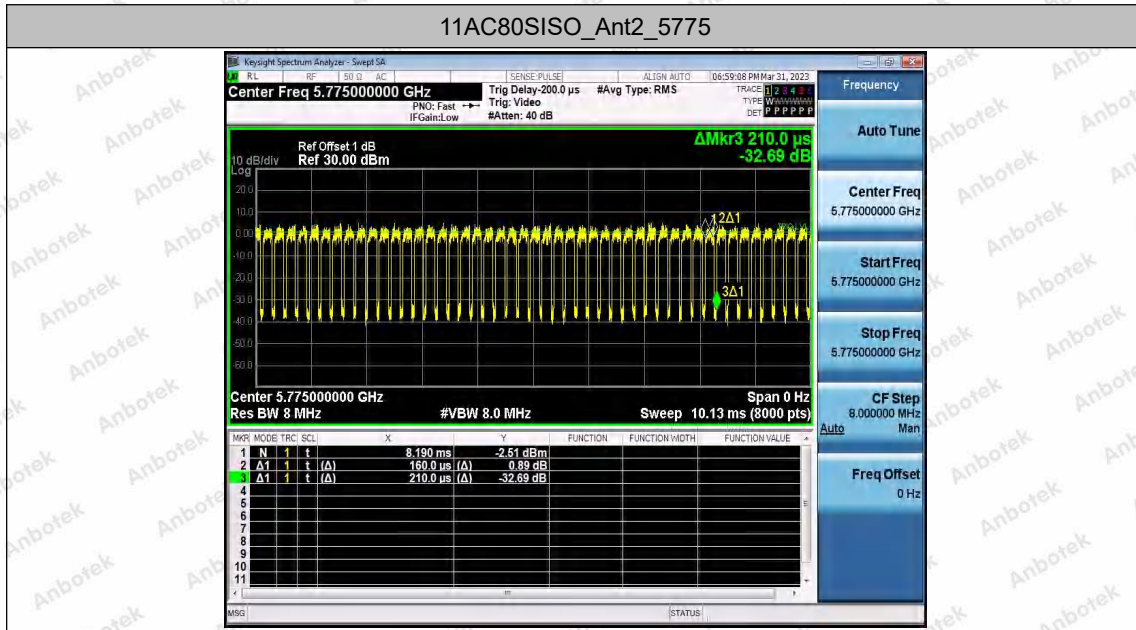


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## Appendix C: Maximum conducted output power

### Test Result Channel Power

Test Mode	Antenna	Frequency [MHz]	Set Power	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]
11A	Ant1	5180	---	11.40	75.00	1.25	12.65	≤23.98
	Ant2	5180	---	11.08	75.00	1.25	12.33	≤23.98
	Ant1	5200	---	11.24	75.00	1.25	12.49	≤23.98
	Ant2	5200	---	11.14	75.00	1.25	12.39	≤23.98
	Ant1	5240	---	11.16	73.68	1.33	12.49	≤23.98
	Ant2	5240	---	11.08	73.68	1.33	12.41	≤23.98
	Ant1	5745	---	11.42	73.68	1.33	12.75	≤30.00
	Ant2	5745	---	10.33	73.68	1.33	11.66	≤30.00
	Ant1	5785	---	11.26	78.95	1.03	12.29	≤30.00
	Ant2	5785	---	10.48	78.95	1.03	11.51	≤30.00
	Ant1	5825	---	11.09	75.00	1.25	12.34	≤30.00
	Ant2	5825	---	10.47	78.95	1.03	11.50	≤30.00
11N20 SISO	Ant1	5180	---	11.24	78.26	1.06	12.30	≤23.98
	Ant2	5180	---	11.09	78.26	1.06	12.15	≤23.98
	Ant1	5200	---	11.04	77.27	1.12	12.16	≤23.98
	Ant2	5200	---	11.08	77.27	1.12	12.20	≤23.98
	Ant1	5240	---	11.01	78.26	1.06	12.07	≤23.98
	Ant2	5240	---	11.10	77.27	1.12	12.22	≤23.98
	Ant1	5745	---	11.10	77.27	1.12	12.22	≤30.00
	Ant2	5745	---	11.09	77.27	1.12	12.21	≤30.00
	Ant1	5785	---	10.77	77.27	1.12	11.89	≤30.00
	Ant2	5785	---	10.82	77.27	1.12	11.94	≤30.00
	Ant1	5825	---	10.69	78.26	1.06	11.75	≤30.00
	Ant2	5825	---	10.72	77.27	1.12	11.84	≤30.00
11N40 SISO	Ant1	5190	---	10.98	78.26	1.06	12.04	≤23.98
	Ant2	5190	---	11.04	81.82	0.87	11.91	≤23.98
	Ant1	5230	---	11.05	78.26	1.06	12.11	≤23.98
	Ant2	5230	---	10.98	81.82	0.87	11.85	≤23.98
	Ant1	5755	---	11.22	81.82	0.87	12.09	≤30.00
	Ant2	5755	---	11.22	78.26	1.06	12.28	≤30.00
	Ant1	5795	---	11.04	81.82	0.87	11.91	≤30.00
	Ant2	5795	---	10.99	78.26	1.06	12.05	≤30.00
11AC2 OSISO	Ant1	5180	---	10.84	76.19	1.18	12.02	≤23.98
	Ant2	5180	---	10.08	77.27	1.12	11.20	≤23.98
	Ant1	5200	---	10.81	77.27	1.12	11.93	≤23.98

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	Ant2	5200	---	10.12	76.19	1.18	11.30	≤23.98
	Ant1	5240	---	10.63	76.19	1.18	11.81	≤23.98
	Ant2	5240	---	10.07	76.19	1.18	11.25	≤23.98
	Ant1	5745	---	9.97	77.27	1.12	11.09	≤30.00
	Ant2	5745	---	9.98	76.19	1.18	11.16	≤30.00
	Ant1	5785	---	9.83	76.19	1.18	11.01	≤30.00
	Ant2	5785	---	9.70	76.19	1.18	10.88	≤30.00
	Ant1	5825	---	9.67	76.19	1.18	10.85	≤30.00
	Ant2	5825	---	9.63	76.19	1.18	10.81	≤30.00
11AC4 OSISO	Ant1	5190	---	11.73	75.00	1.18	12.91	≤23.98
	Ant2	5190	---	11.72	75.00	1.18	12.90	≤23.98
	Ant1	5230	---	10.28	75.00	1.25	11.53	≤23.98
	Ant2	5230	---	10.20	76.19	1.18	11.38	≤23.98
	Ant1	5755	---	11.55	75.00	1.18	12.73	≤30.00
	Ant2	5755	---	11.55	75.00	1.18	12.73	≤30.00
	Ant1	5795	---	9.83	76.19	1.18	11.01	≤30.00
Ant2	5795	---	9.78	76.19	1.18	10.96	≤30.00	
11AC8 OSISO	Ant1	5210	---	10.77	76.19	1.18	11.95	≤23.98
	Ant2	5210	---	10.84	77.27	1.12	11.96	≤23.98
	Ant1	5775	---	10.13	76.19	1.18	11.31	≤30.00
	Ant2	5775	---	10.02	76.19	1.18	11.20	≤30.00

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

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## MIMO:

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]
11N20MIMO	Ant1+ANT2	5180	15.24	≤23.98
	Ant1+ANT2	5200	15.19	≤23.98
	Ant1+ANT2	5240	15.16	≤23.98
	Ant1+ANT2	5745	15.23	≤30.00
	Ant1+ANT2	5785	14.93	≤30.00
	Ant1+ANT2	5825	14.81	≤30.00
11N40MIMO	Ant1+ANT2	5190	14.99	≤23.98
	Ant1+ANT2	5230	14.99	≤23.98
	Ant1+ANT2	5755	15.20	≤30.00
	Ant1+ANT2	5795	14.99	≤30.00
11AC20MIMO	Ant1+ANT2	5180	14.64	≤23.98
	Ant1+ANT2	5200	14.64	≤23.98
	Ant1+ANT2	5240	14.55	≤23.98
	Ant1+ANT2	5745	14.14	≤30.00
	Ant1+ANT2	5785	13.96	≤30.00
	Ant1+ANT2	5825	13.84	≤30.00
11AC40MIMO	Ant1+ANT2	5190	<b>15.92</b>	≤23.98
	Ant1+ANT2	5230	14.47	≤23.98
	Ant1+ANT2	5755	15.74	≤30.00
	Ant1+ANT2	5795	14.00	≤30.00
11AC80MIMO	Ant1+ANT2	5210	14.97	≤23.98
	Ant1+ANT2	5775	14.27	≤30.00

## Note:

$$1. \text{ Total (dBm)} = 10 \times \log(10^{(\text{ANT1 power(dBm)/10})} + 10^{(\text{Ant2 power(dBm)/10})})$$

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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	3.61	≤11.00	PASS
	Ant2	5180	3.25	≤11.00	PASS
	Ant1	5200	3.45	≤11.00	PASS
	Ant2	5200	3.59	≤11.00	PASS
	Ant1	5240	4.05	≤11.00	PASS
	Ant2	5240	3.29	≤11.00	PASS
11N20SISO	Ant1	5180	3.22	≤11.00	PASS
	Ant2	5180	2.87	≤11.00	PASS
	Ant1	5200	3.02	≤11.00	PASS
	Ant2	5200	3.34	≤11.00	PASS
	Ant1	5240	3.27	≤11.00	PASS
	Ant2	5240	2.12	≤11.00	PASS
11N40SISO	Ant1	5190	-0.34	≤11.00	PASS
	Ant2	5190	-0.48	≤11.00	PASS
	Ant1	5230	-0.12	≤11.00	PASS
	Ant2	5230	-0.36	≤11.00	PASS
11AC20SISO	Ant1	5180	2.94	≤11.00	PASS
	Ant2	5180	2.18	≤11.00	PASS
	Ant1	5200	2.97	≤11.00	PASS
	Ant2	5200	2.61	≤11.00	PASS
	Ant1	5240	2.64	≤11.00	PASS
	Ant2	5240	2.54	≤11.00	PASS
11AC40SISO	Ant1	5190	-1.08	≤11.00	PASS
	Ant2	5190	-0.58	≤11.00	PASS
	Ant1	5230	-1.21	≤11.00	PASS
	Ant2	5230	-0.69	≤11.00	PASS
11AC80SISO	Ant1	5210	-3.04	≤11.00	PASS
	Ant2	5210	-3.33	≤11.00	PASS

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

### MIMO:

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11N20MIMO	Ant1+ANT2	5180	6.06	≤11.00	PASS
	Ant1+ANT2	5200	6.19	≤11.00	PASS
	Ant1+ANT2	5240	5.74	≤11.00	PASS
11N40MIMO	Ant1+ANT2	5190	2.60	≤11.00	PASS

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	Ant1+ANT2	5230	2.77	≤11.00	PASS
11AC20MIMO	Ant1+ANT2	5180	5.59	≤11.00	PASS
	Ant1+ANT2	5200	5.80	≤11.00	PASS
	Ant1+ANT2	5240	5.60	≤11.00	PASS
11AC40MIMO	Ant1+ANT2	5190	2.19	≤11.00	PASS
	Ant1+ANT2	5230	2.07	≤11.00	PASS
11AC80MIMO	Ant1+ANT2	5210	-0.17	≤11.00	PASS

Note:

$$1. Total (dBm) = 10 \log(10^{(ANT1 \text{ power}(dBm)/10)} + 10^{(ANT2 \text{ power}(dBm)/10)})$$

## Test Result B4

TestMode	Antenna	Frequency[MHz]	Result [dBm/500KHz]	Limit[dBm/500KHz]	Verdict
11A	Ant1	5745	-0.67	≤30.00	PASS
	Ant2	5745	-1.8	≤30.00	PASS
	Ant1	5785	-0.06	≤30.00	PASS
	Ant2	5785	-1.68	≤30.00	PASS
	Ant1	5825	-1.18	≤30.00	PASS
	Ant2	5825	-1.6	≤30.00	PASS
11N20SISO	Ant1	5745	-1.25	≤30.00	PASS
	Ant2	5745	-0.75	≤30.00	PASS
	Ant1	5785	-1.49	≤30.00	PASS
	Ant2	5785	-1.63	≤30.00	PASS
	Ant1	5825	-1.23	≤30.00	PASS
	Ant2	5825	-1.47	≤30.00	PASS
11N40SISO	Ant1	5755	-3.83	≤30.00	PASS
	Ant2	5755	-4.56	≤30.00	PASS
	Ant1	5795	-4.22	≤30.00	PASS
	Ant2	5795	-4.18	≤30.00	PASS
11AC20SISO	Ant1	5745	-2.17	≤30.00	PASS
	Ant2	5745	-1.64	≤30.00	PASS
	Ant1	5785	-2.64	≤30.00	PASS
	Ant2	5785	-2.61	≤30.00	PASS
	Ant1	5825	-1.87	≤30.00	PASS
	Ant2	5825	-2.42	≤30.00	PASS
11AC40SISO	Ant1	5755	-5.65	≤30.00	PASS
	Ant2	5755	-5.56	≤30.00	PASS
	Ant1	5795	-4.98	≤30.00	PASS
	Ant2	5795	-5.28	≤30.00	PASS
11AC80SISO	Ant1	5775	-8.6	≤30.00	PASS
	Ant2	5775	-7.94	≤30.00	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/500KHz]	Limit [dBm/500KHz]	Verdict
11N20MIMO	Ant1+ANT2	5745	2.02	≤30.00	PASS
	Ant1+ANT2	5785	1.45	≤30.00	PASS
	Ant1+ANT2	5825	1.66	≤30.00	PASS
11N40MIMO	Ant1+ANT2	5755	-1.17	≤30.00	PASS
	Ant1+ANT2	5795	-1.19	≤30.00	PASS
11AC20MIMO	Ant1+ANT2	5745	1.11	≤30.00	PASS
	Ant1+ANT2	5785	0.39	≤30.00	PASS
	Ant1+ANT2	5825	0.87	≤30.00	PASS
11AC40MIMO	Ant1+ANT2	5755	-2.59	≤30.00	PASS
	Ant1+ANT2	5795	-2.12	≤30.00	PASS
11AC80MIMO	Ant1+ANT2	5775	-5.25	≤30.00	PASS

## Note:

$$1. \text{Total (dBm)} = 10 \times \log(10^{(\text{ANT1 power(dBm)/10})} + 10^{(\text{Ant2 power(dBm)/10})})$$

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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\_5190



11N40SISO\_Ant1\_5230



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