

Appendix Test Data

Report No:	18220WC30041903	Test Sample NO:	1-2-2
Start Test Date:	2023.03.15	Finish Test Date:	2023.04.10
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.4°C	Relative Humidity:	53%
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.600	2407.920	2416.520	≥0.5	PASS
		2437	8.560	2432.480	2441.040	≥0.5	PASS
		2462	8.080	2457.960	2466.040	≥0.5	PASS
11G	Ant1	2412	15.080	2404.440	2419.520	≥0.5	PASS
		2437	15.120	2429.440	2444.560	≥0.5	PASS
		2462	15.120	2454.440	2469.560	≥0.5	PASS
11N20SISO	Ant1	2412	15.080	2404.440	2419.520	≥0.5	PASS
		2437	15.080	2429.480	2444.560	≥0.5	PASS
		2462	15.120	2454.440	2469.560	≥0.5	PASS
11N40SISO	Ant1	2422	35.100	2404.420	2439.520	≥0.5	PASS
		2437	33.780	2419.480	2453.260	≥0.5	PASS
		2452	35.100	2434.480	2469.580	≥0.5	PASS
11AX20SISO	Ant1	2412	16.360	2404.440	2420.800	≥0.5	PASS
		2437	15.080	2429.440	2444.520	≥0.5	PASS
		2462	16.400	2454.440	2470.840	≥0.5	PASS
11AX40SISO	Ant1	2422	35.040	2404.480	2439.520	≥0.5	PASS
		2437	35.100	2419.420	2454.520	≥0.5	PASS
		2452	35.040	2434.480	2469.520	≥0.5	PASS

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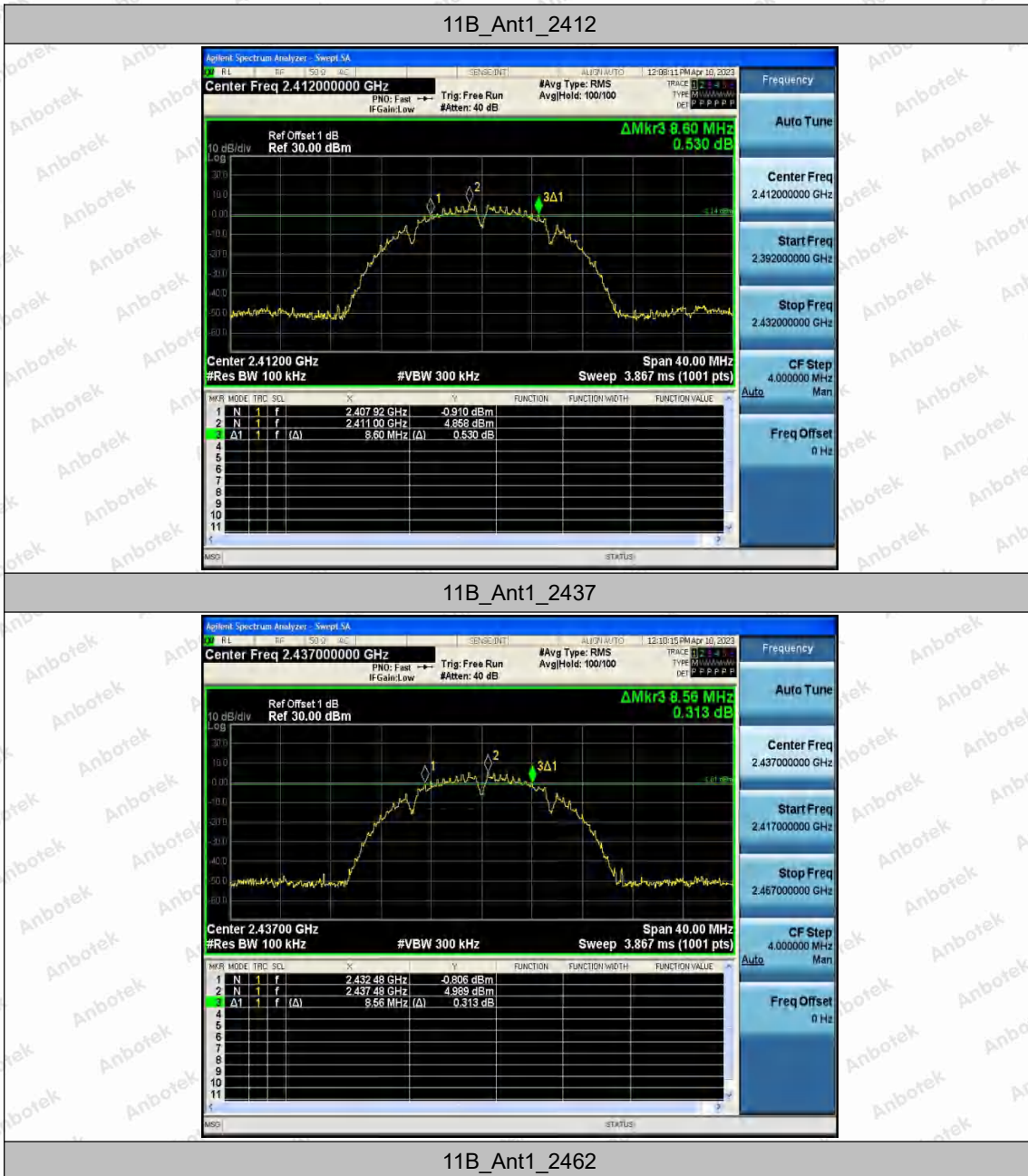
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Test Graphs



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11G_Ant1_2412



11G_Ant1_2437

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11G_Ant1_2462



11N20SISO_Ant1_2412

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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462

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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

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11N40SISO_Ant1_2452



11AX20SISO_Ant1_2412

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11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462

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11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437

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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.454	2405.2787	2418.7327	---	---
		2437	13.370	2430.3516	2443.7216	---	---
		2462	13.558	2455.2956	2468.8536	---	---
11G	Ant1	2412	16.818	2403.6174	2420.4354	---	---
		2437	16.814	2428.6387	2445.4527	---	---
		2462	16.927	2453.5706	2470.4976	---	---
11N20SISO	Ant1	2412	17.899	2403.0509	2420.9499	---	---
		2437	17.842	2428.1057	2445.9477	---	---
		2462	17.866	2453.0828	2470.9488	---	---
11N40SISO	Ant1	2422	35.959	2403.9975	2439.9565	---	---
		2437	35.860	2418.9879	2454.8479	---	---
		2452	36.017	2434.0677	2470.0847	---	---
11AX20SISO	Ant1	2412	18.923	2402.5566	2421.4796	---	---
		2437	18.982	2427.5390	2446.5210	---	---
		2462	18.993	2452.5090	2471.5020	---	---
11AX40SISO	Ant1	2422	37.544	2403.2385	2440.7825	---	---
		2437	37.411	2418.2010	2455.6120	---	---
		2452	37.417	2433.3823	2470.7993	---	---



Test Graphs

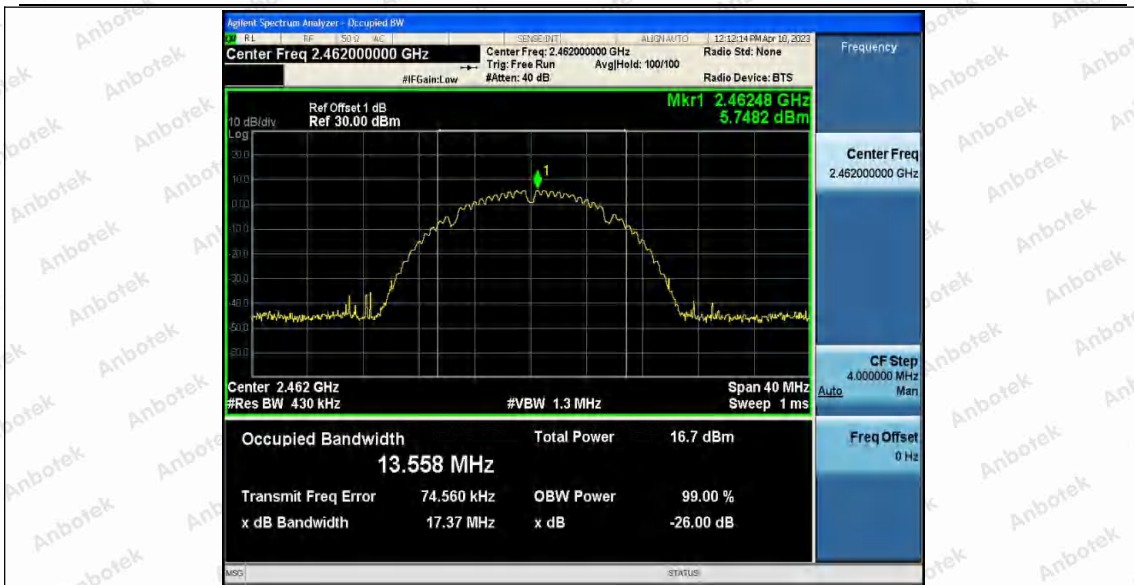


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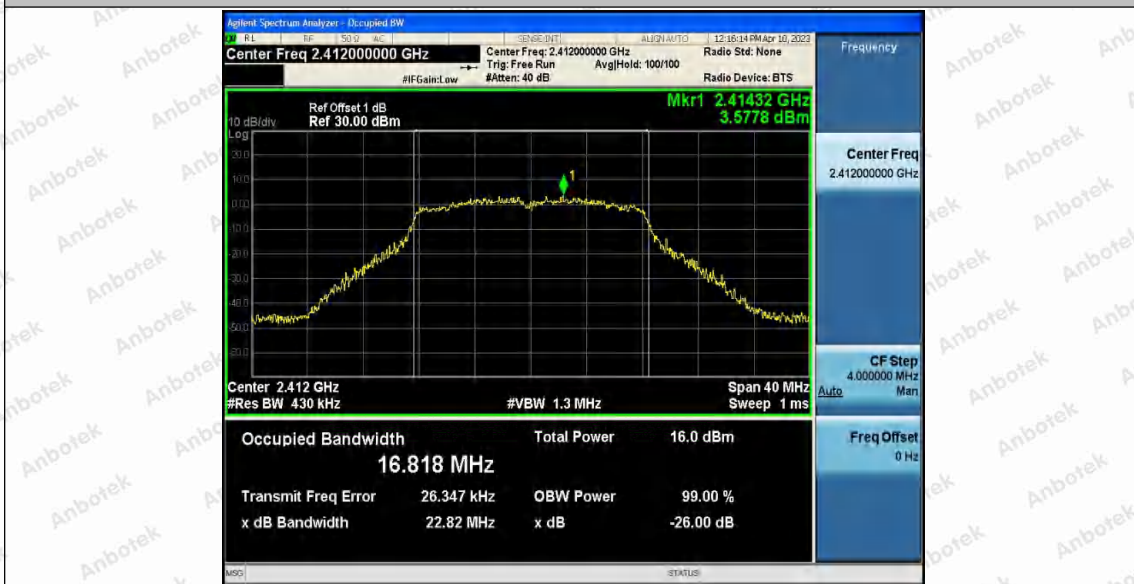
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11G_Ant1_2412



11G_Ant1_2437

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11G_Ant1_2462



11N20SISO_Ant1_2412

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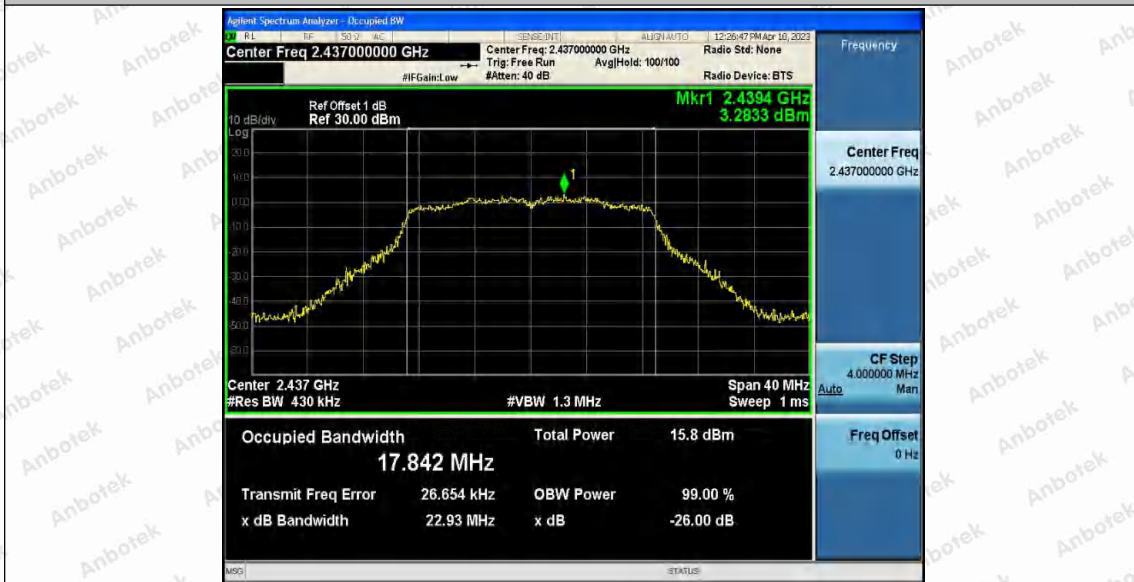


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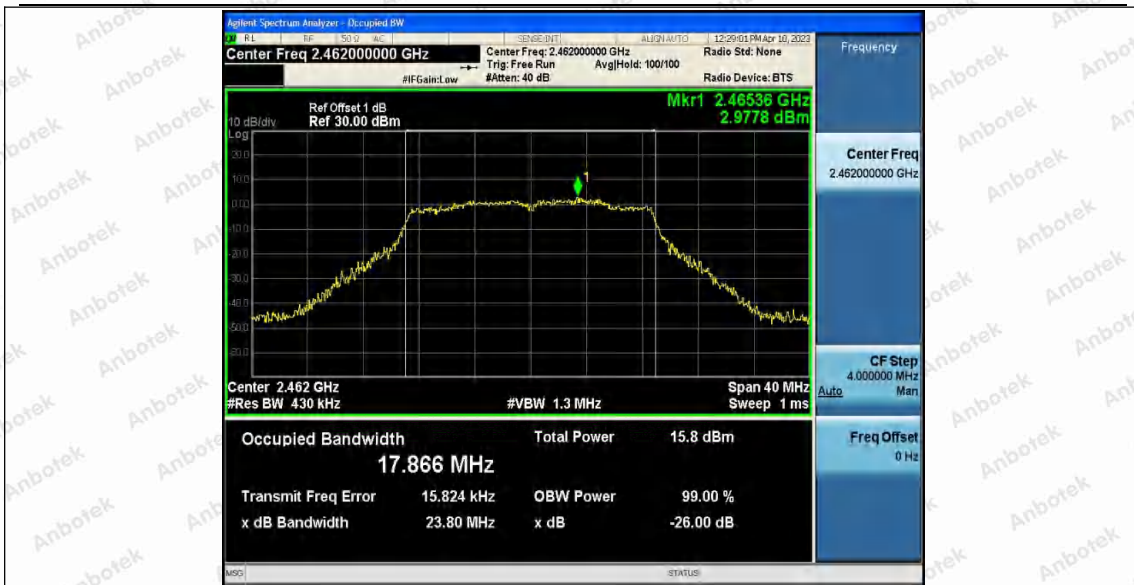
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11N40SISO_Ant1_2452



11AX20SISO_Ant1_2412

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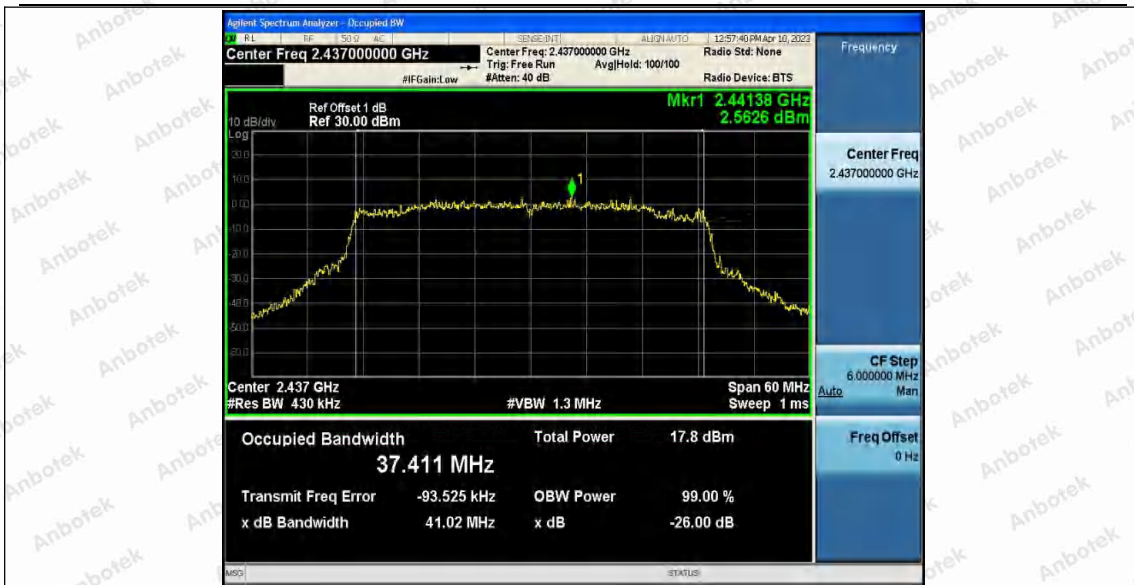
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Appendix C: Maximum conducted output power

Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	16.82	≤30.00
		2437	16.62	≤30.00
		2462	16.79	≤30.00
11G	Ant1	2412	17.04	≤30.00
		2437	16.76	≤30.00
		2462	16.95	≤30.00
11N20SISO	Ant1	2412	16.89	≤30.00
		2437	16.83	≤30.00
		2462	16.79	≤30.00
11N40SISO	Ant1	2422	16.53	≤30.00
		2437	16.72	≤30.00
		2452	16.53	≤30.00
11AX20SISO	Ant1	2412	16.23	≤30.00
		2437	15.98	≤30.00
		2462	16.09	≤30.00
11AX40SISO	Ant1	2422	16.20	≤30.00
		2437	16.55	≤30.00
		2452	16.25	≤30.00

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Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-8.13	≤8.00	PASS
		2437	-7.98	≤8.00	PASS
		2462	-7.83	≤8.00	PASS
11G	Ant1	2412	-14.54	≤8.00	PASS
		2437	-14.37	≤8.00	PASS
		2462	-14.78	≤8.00	PASS
11N20SISO	Ant1	2412	-14.41	≤8.00	PASS
		2437	-14.98	≤8.00	PASS
		2462	-14.13	≤8.00	PASS
11N40SISO	Ant1	2422	-15.92	≤8.00	PASS
		2437	-15.97	≤8.00	PASS
		2452	-15.78	≤8.00	PASS
11AX20SISO	Ant1	2412	-16.42	≤8.00	PASS
		2437	-17.37	≤8.00	PASS
		2462	-17.07	≤8.00	PASS
11AX40SISO	Ant1	2422	-18.38	≤8.00	PASS
		2437	-17.53	≤8.00	PASS
		2452	-17.76	≤8.00	PASS



Test Graphs



11B_Ant1_2462

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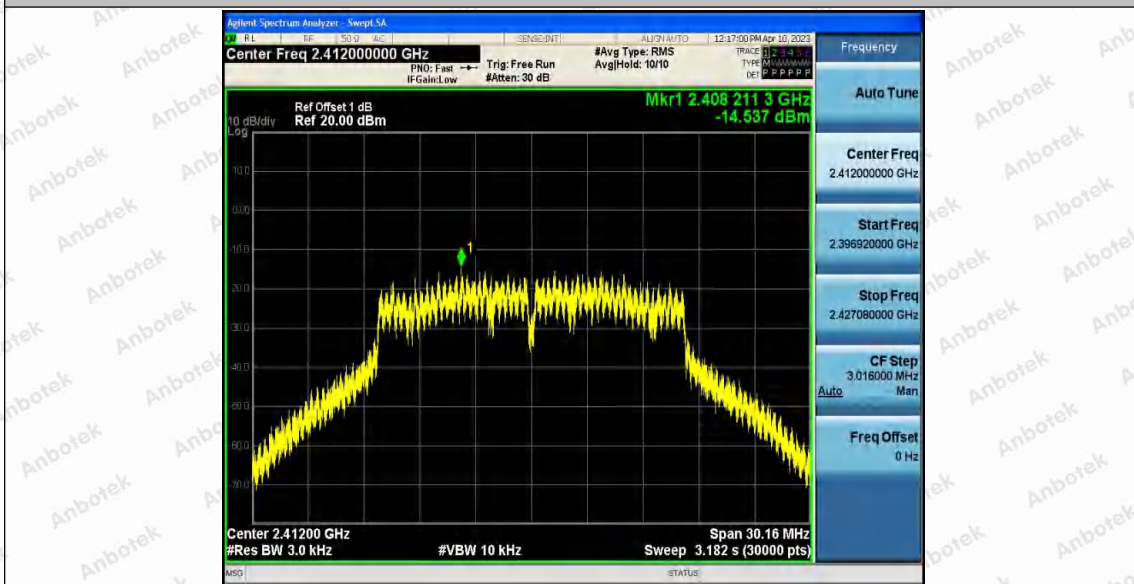
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11G_Ant1_2412



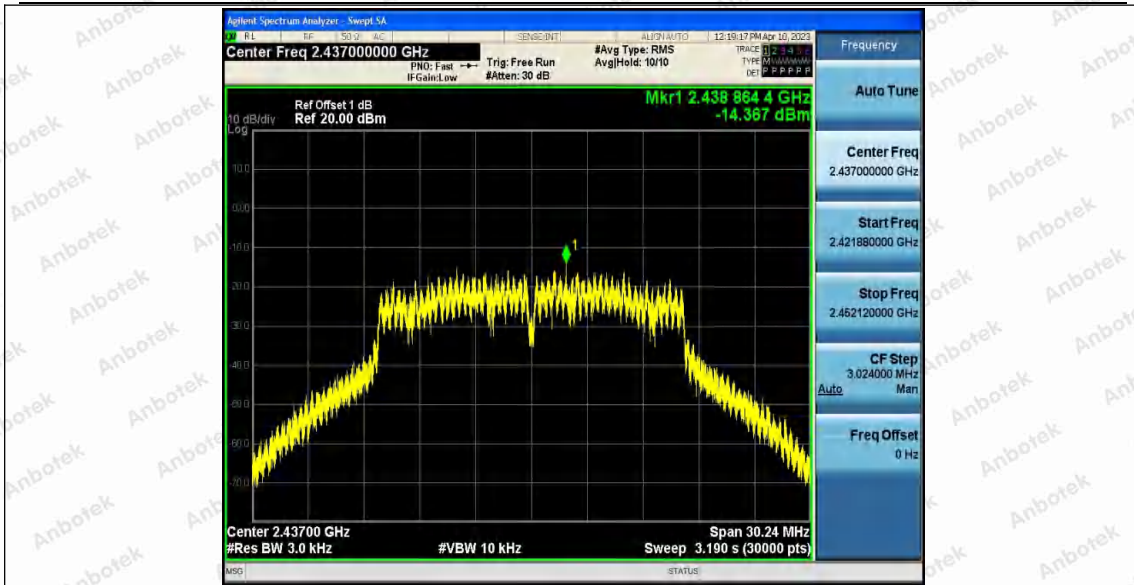
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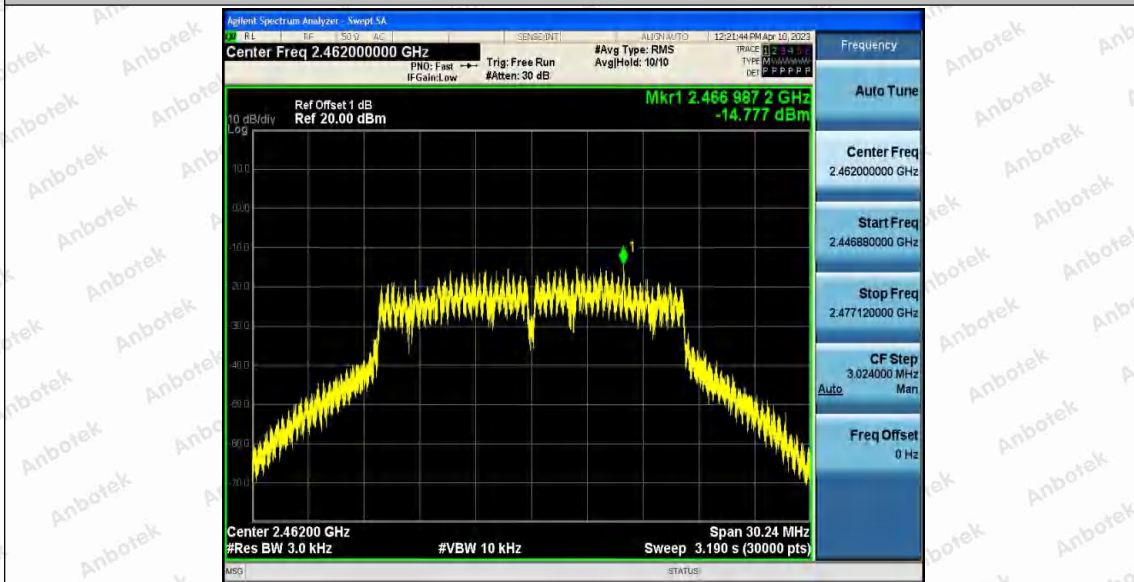
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11G_Ant1_2462



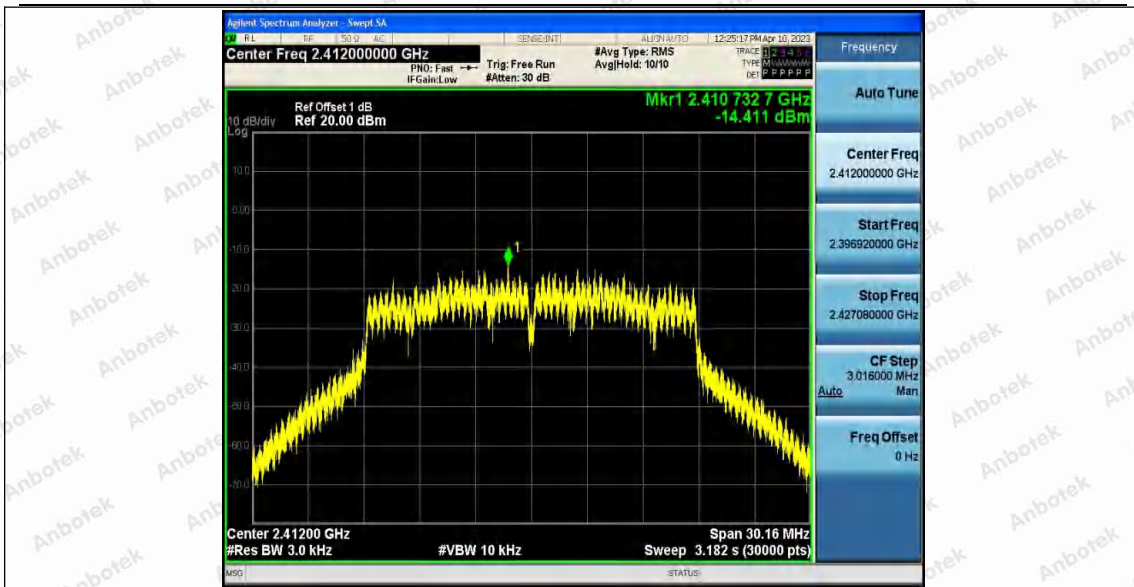
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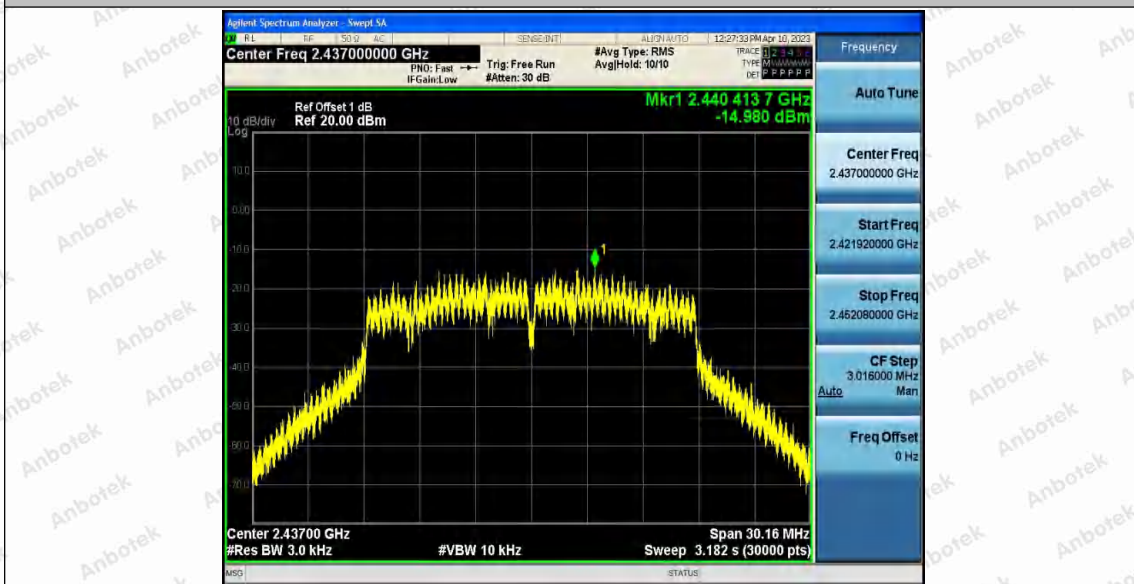
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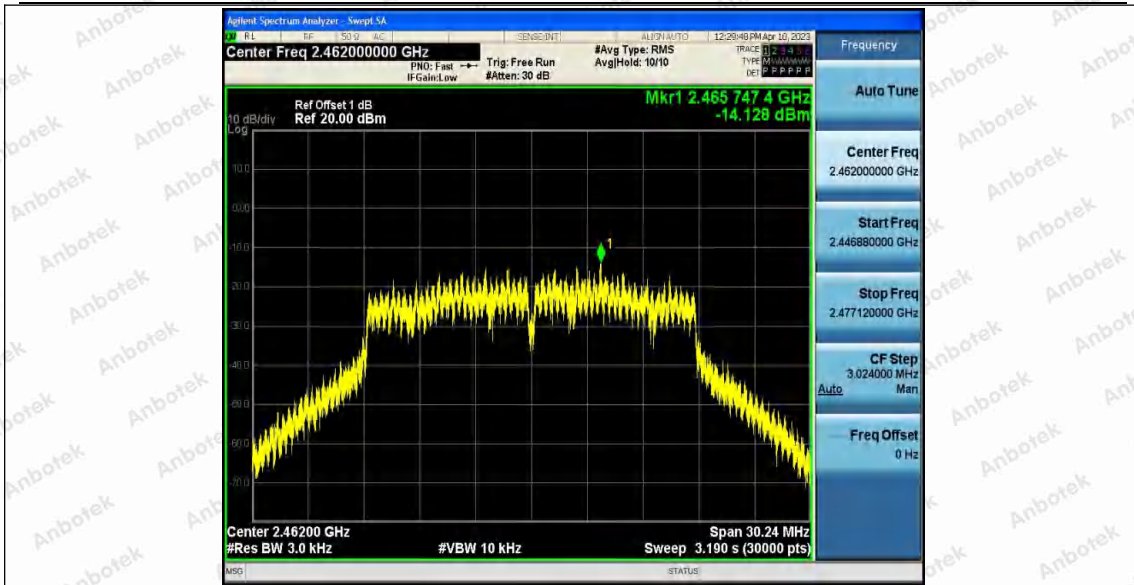
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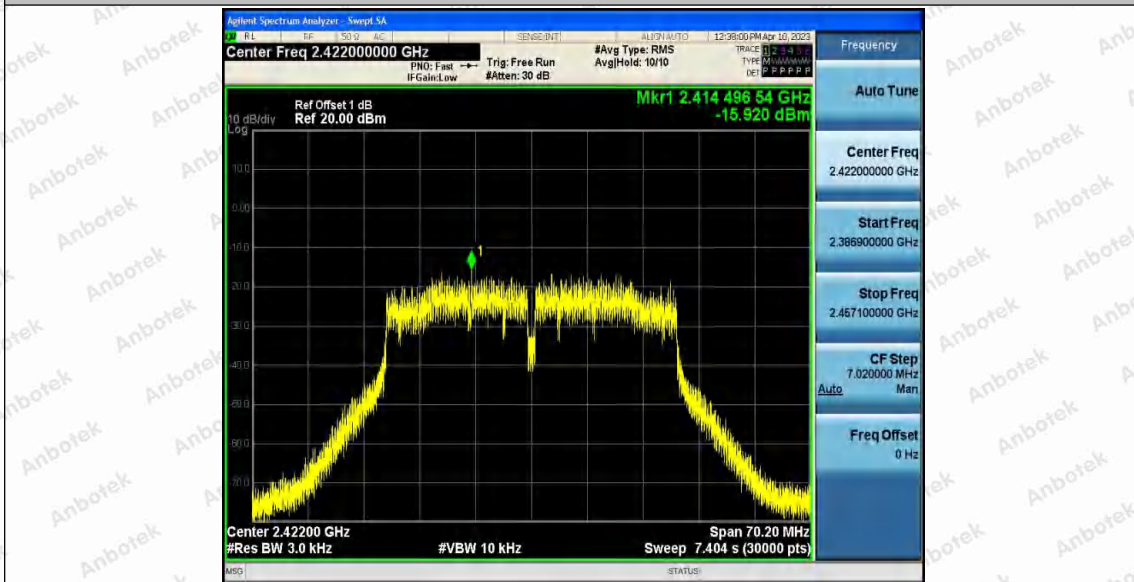
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11N40SISO_Ant1_2422



11N40SISO_Ant1_2437

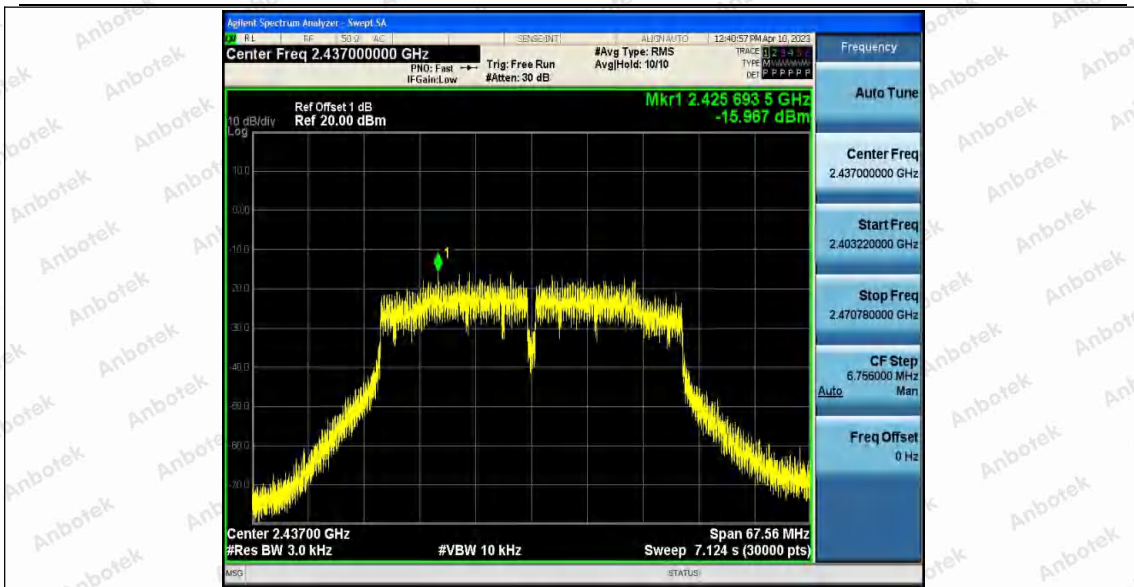
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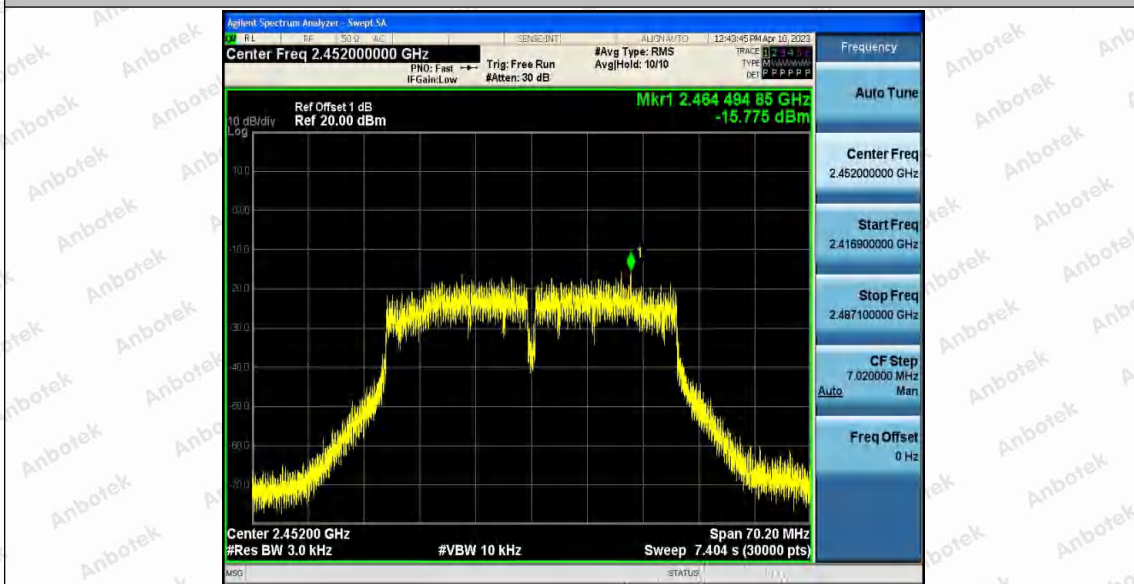


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11N40SISO_Ant1_2452



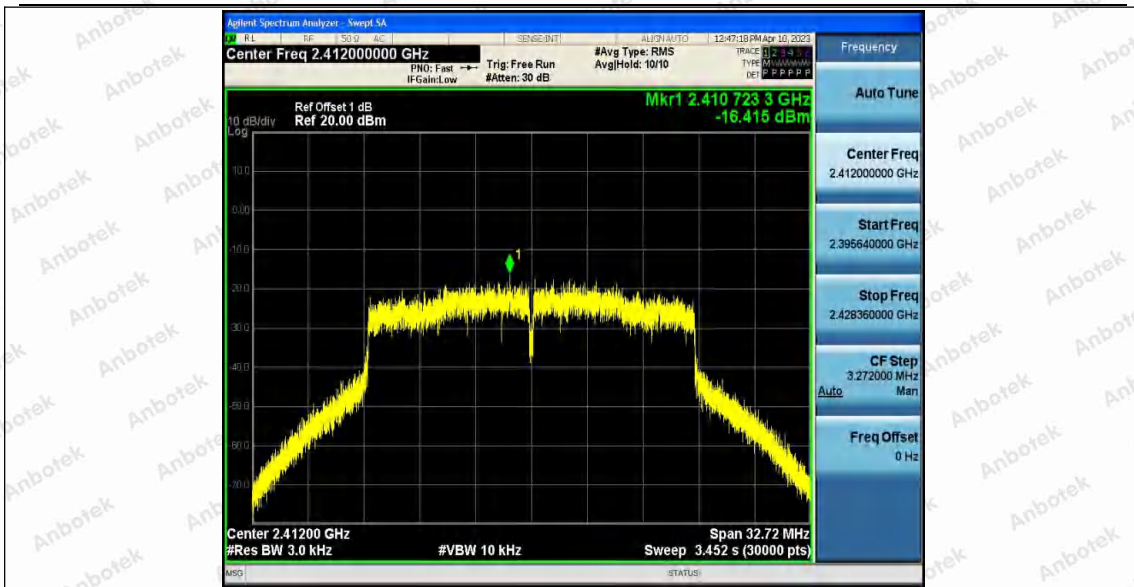
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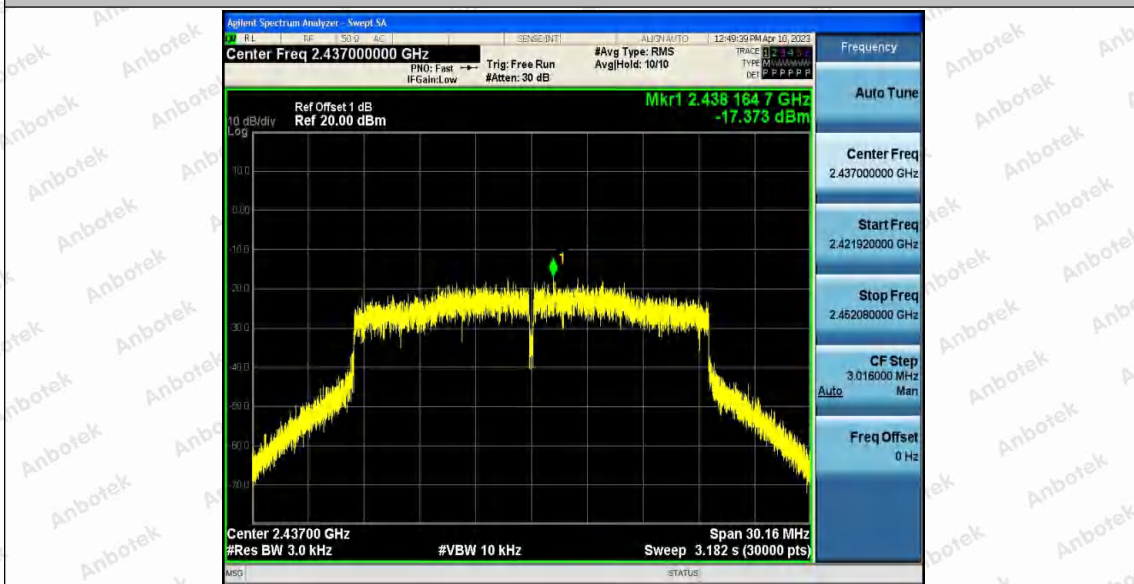
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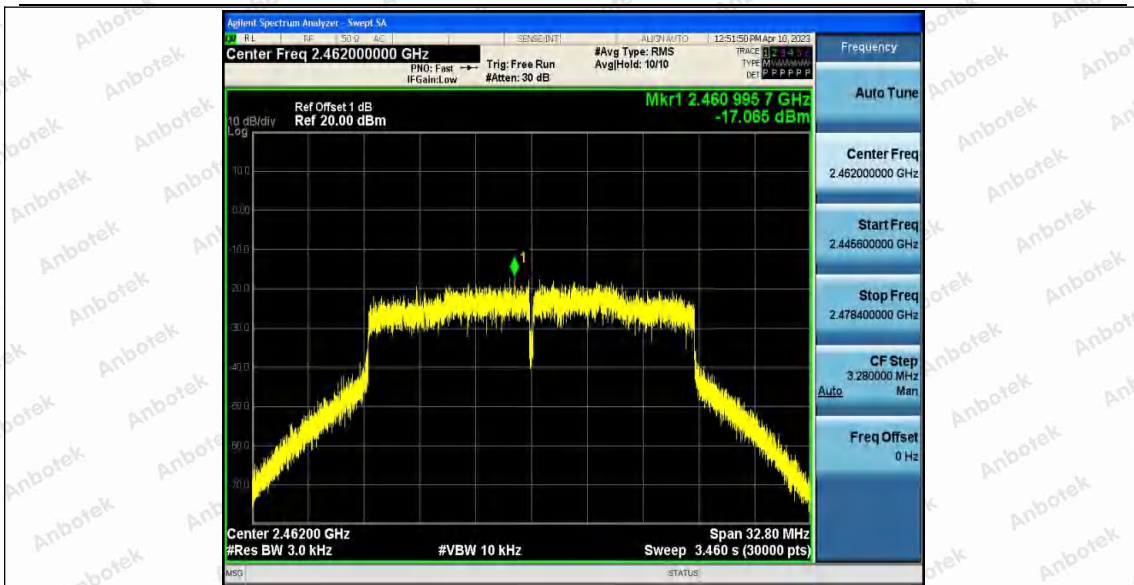
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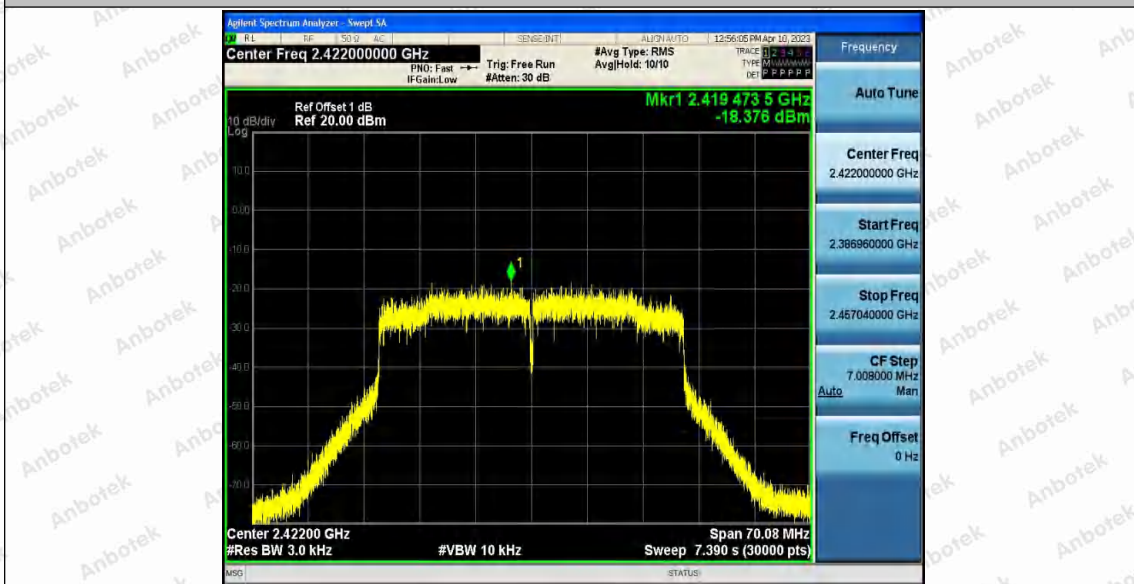
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11AX40SISO_Ant1_2422



11AX40SISO_Ant1_2437

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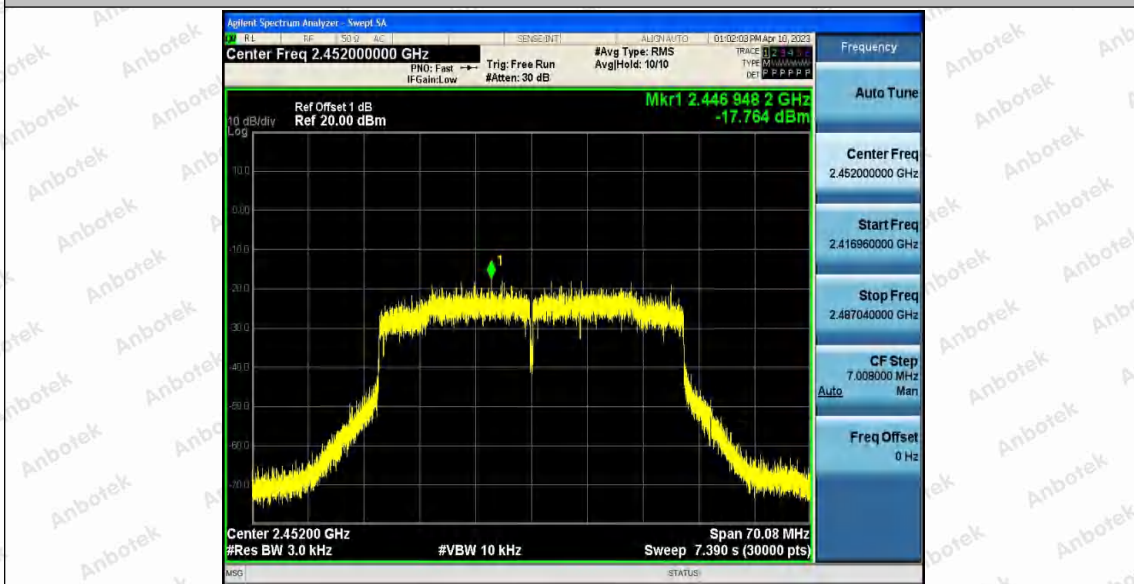
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11AX40SISO_Ant1_2452



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Appendix E: Band edge measurements

Test Result

TestMode	Antenna	Channel Name	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.57	-48.27	≤-15.43	PASS
		High	2462	5.27	-54.86	≤-14.74	PASS
11G	Ant1	Low	2412	0.47	-31.82	≤-19.53	PASS
		High	2462	0.41	-57.54	≤-19.59	PASS
11N20SISO	Ant1	Low	2412	0.16	-30.67	≤-19.84	PASS
		High	2462	0.34	-56.9	≤-19.66	PASS
11N40SISO	Ant1	Low	2422	-1.43	-31.4	≤-21.43	PASS
		High	2452	-1.46	-45.24	≤-21.46	PASS
11AX20SISO	Ant1	Low	2412	-1.46	-31.18	≤-21.46	PASS
		High	2462	-1.09	-56.68	≤-21.09	PASS
11AX40SISO	Ant1	Low	2422	-2.24	-32.24	≤-22.24	PASS
		High	2452	-2.14	-46.57	≤-22.14	PASS



Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

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11G_Ant1_High_2462



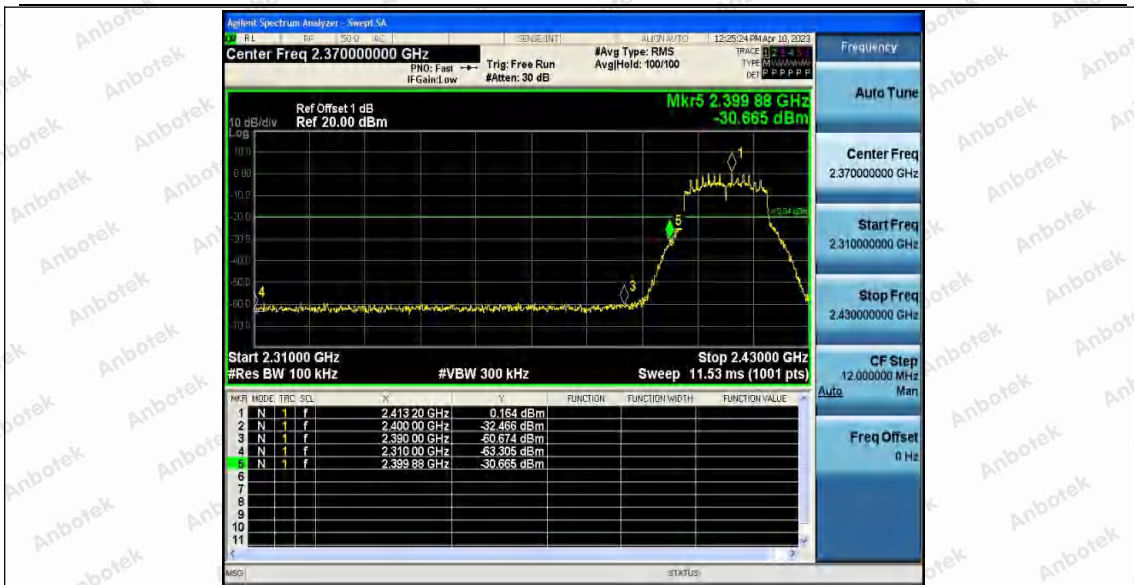
11N20SISO_Ant1_Low_2412

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11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422

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11N40SISO_Ant1_High_2452



11AX20SISO_Ant1_Low_2412

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11AX20SISO_Ant1_High_2462



11AX40SISO_Ant1_Low_2422

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11AX40SISO_Ant1_High_2452



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Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	4.81	4.81	---	PASS
			30~1000	4.81	-68.94	≤-15.19	PASS
			1000~26500	4.81	-53.9	≤-15.19	PASS
		2437	Reference	4.27	4.27	---	PASS
			30~1000	4.27	-68.63	≤-15.73	PASS
			1000~26500	4.27	-54.65	≤-15.73	PASS
		2462	Reference	4.93	4.93	---	PASS
			30~1000	4.93	-69.1	≤-15.07	PASS
			1000~26500	4.93	-54.09	≤-15.07	PASS
11G	Ant1	2412	Reference	0.05	0.05	---	PASS
			30~1000	0.05	-68.89	≤-19.95	PASS
			1000~26500	0.05	-54.5	≤-19.95	PASS
		2437	Reference	-0.72	-0.72	---	PASS
			30~1000	-0.72	-68.64	≤-20.72	PASS
			1000~26500	-0.72	-54.01	≤-20.72	PASS
		2462	Reference	-0.23	-0.23	---	PASS
			30~1000	-0.23	-69.42	≤-20.23	PASS
			1000~26500	-0.23	-54.78	≤-20.23	PASS
11N20SISO	Ant1	2412	Reference	-0.02	-0.02	---	PASS
			30~1000	-0.02	-69.68	≤-20.02	PASS
			1000~26500	-0.02	-49.35	≤-20.02	PASS
		2437	Reference	-0.59	-0.59	---	PASS
			30~1000	-0.59	-68.35	≤-20.59	PASS
			1000~26500	-0.59	-54.15	≤-20.59	PASS
		2462	Reference	0.07	0.07	---	PASS
			30~1000	0.07	-68.79	≤-19.93	PASS
			1000~26500	0.07	-54.16	≤-19.93	PASS
11N40SISO	Ant1	2422	Reference	-1.86	-1.86	---	PASS
			30~1000	-1.86	-68.82	≤-21.86	PASS
			1000~26500	-1.86	-54.07	≤-21.86	PASS
		2437	Reference	-1.64	-1.64	---	PASS
			30~1000	-1.64	-61.93	≤-21.64	PASS
			1000~26500	-1.64	-54.36	≤-21.64	PASS
		2452	Reference	-1.99	-1.99	---	PASS
			30~1000	-1.99	-68.24	≤-21.99	PASS



11AX20SISO	Ant1	2412	1000~26500	-1.99	-53.69	≤-21.99	PASS	
			Reference	-1.96	-1.96	---	PASS	
			30~1000	-1.96	-68.59	≤-21.96	PASS	
		2437	1000~26500	-1.96	-52.73	≤-21.96	PASS	
			Reference	-1.51	-1.51	---	PASS	
			30~1000	-1.51	-69.83	≤-21.51	PASS	
	2462	1000~26500	-1.51	-54.64	≤-21.51	PASS		
		Reference	-1.39	-1.39	---	PASS		
		30~1000	-1.39	-69.01	≤-21.39	PASS		
	11AX40SISO	Ant1	2422	1000~26500	-1.39	-53.47	≤-21.39	PASS
				Reference	-2.35	-2.35	---	PASS
				30~1000	-2.35	-69.35	≤-22.35	PASS
2437			1000~26500	-2.35	-54.88	≤-22.35	PASS	
			Reference	-2.44	-2.44	---	PASS	
			30~1000	-2.44	-69.15	≤-22.44	PASS	
2452		1000~26500	-2.44	-54.71	≤-22.44	PASS		
		Reference	-2.93	-2.93	---	PASS		
		30~1000	-2.93	-69.29	≤-22.93	PASS		
				1000~26500	-2.93	-54.64	≤-22.93	PASS

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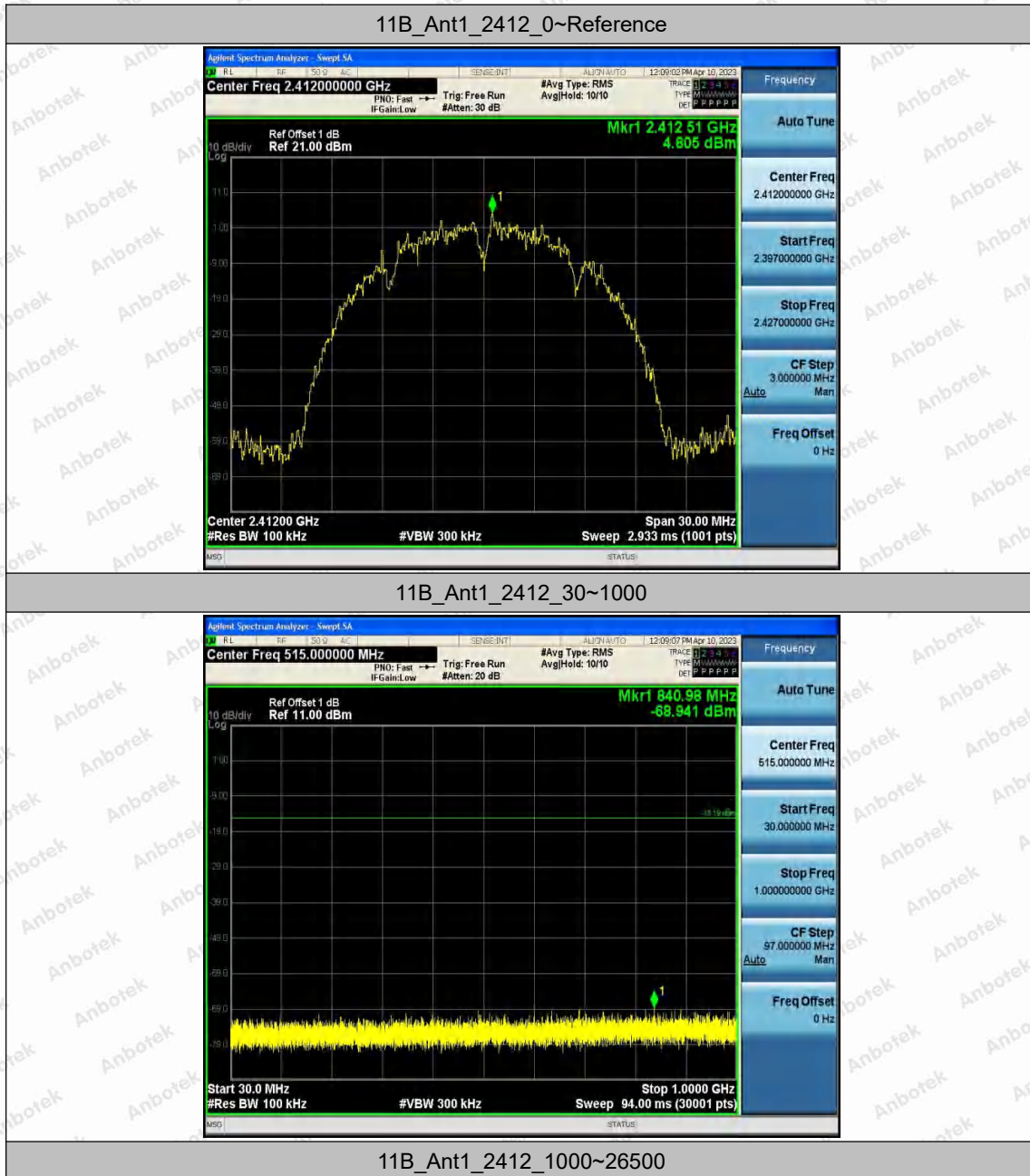
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Test Graphs

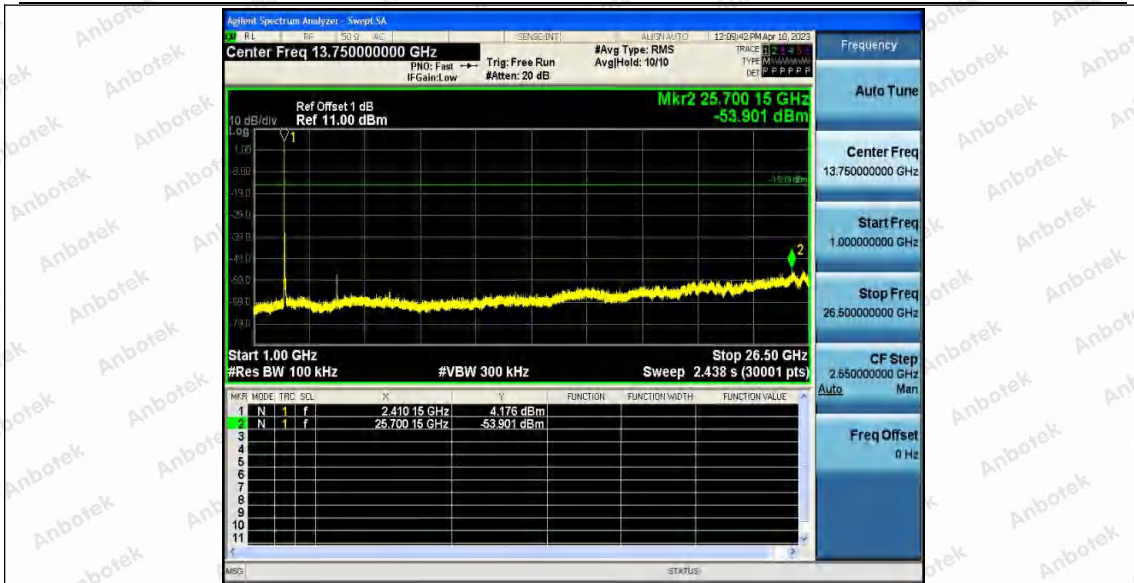


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11B_Ant1_2437_0~Reference



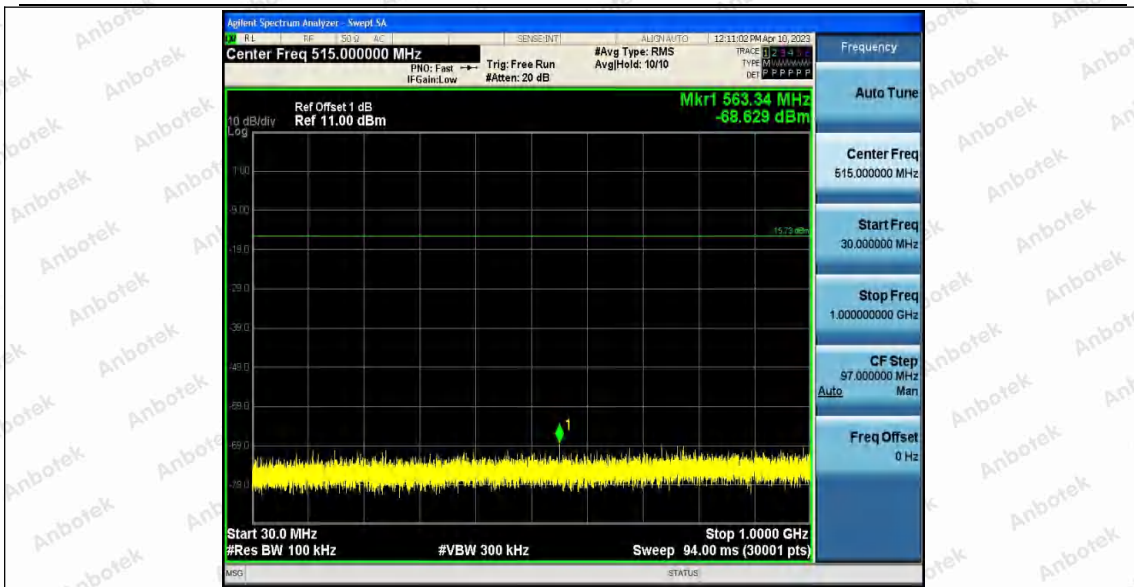
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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference

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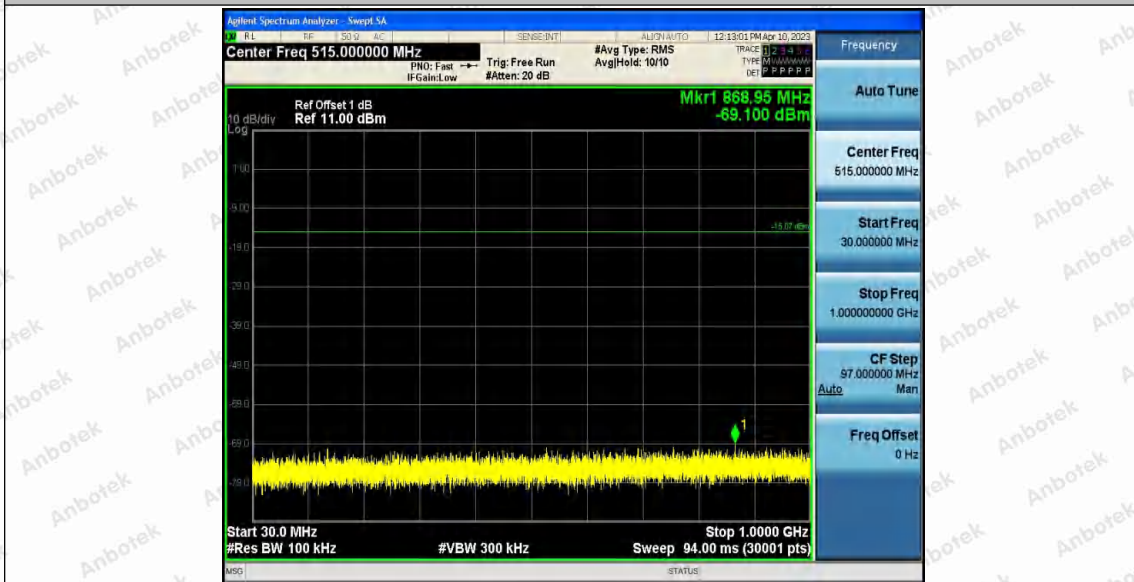
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11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500

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11G_Ant1_2412_0~Reference



11G_Ant1_2412_30~1000

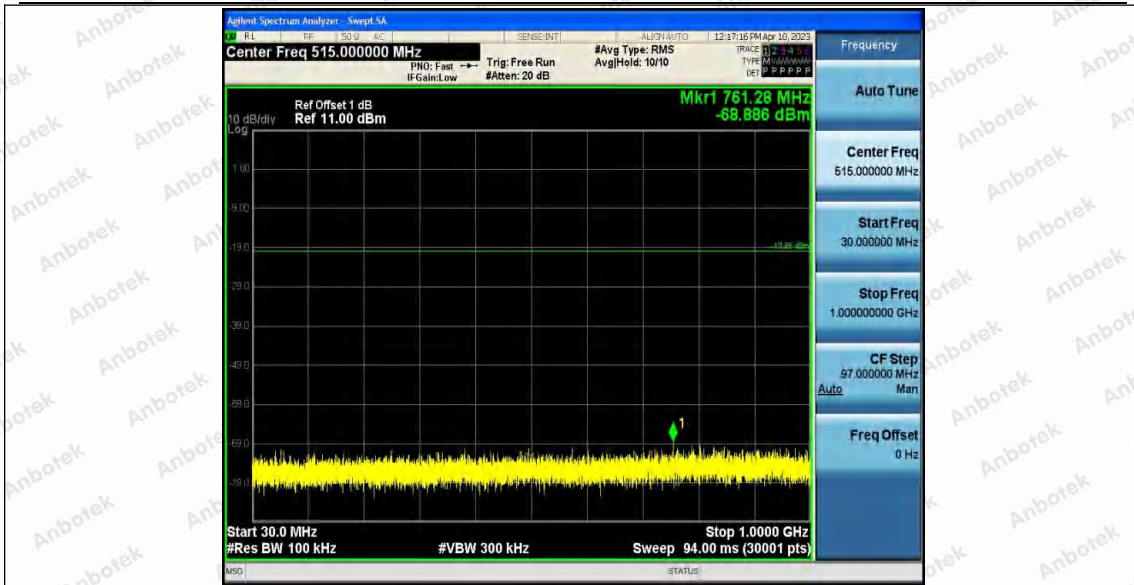
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11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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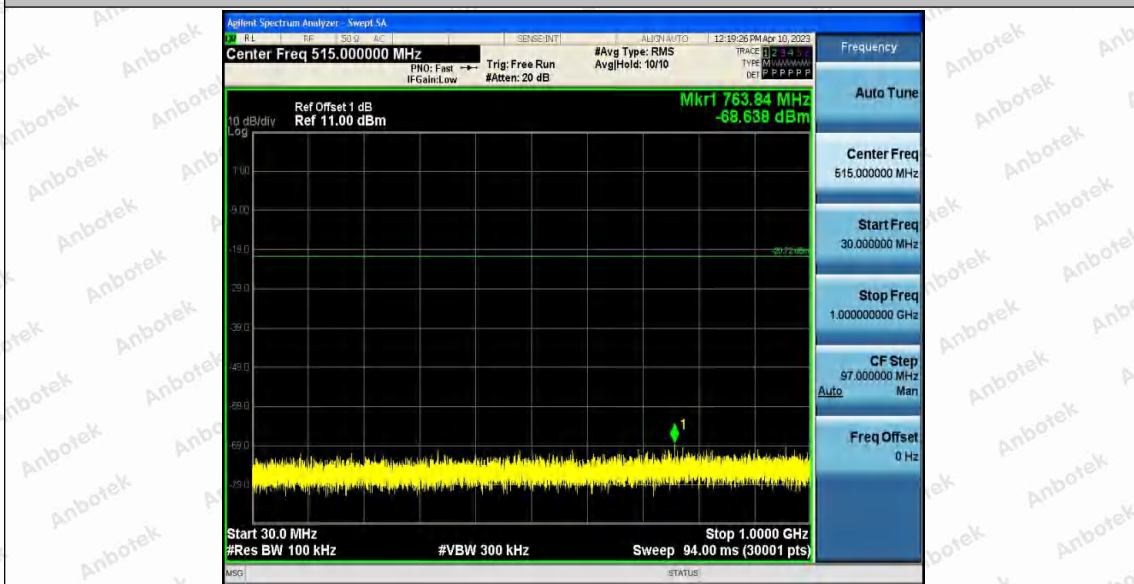
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11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500

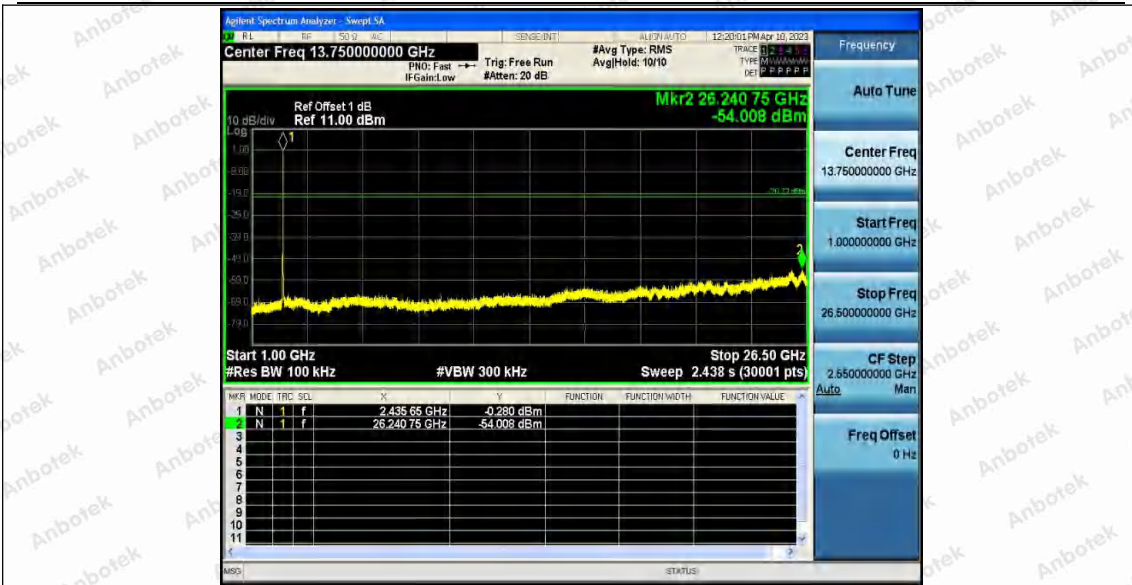
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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000

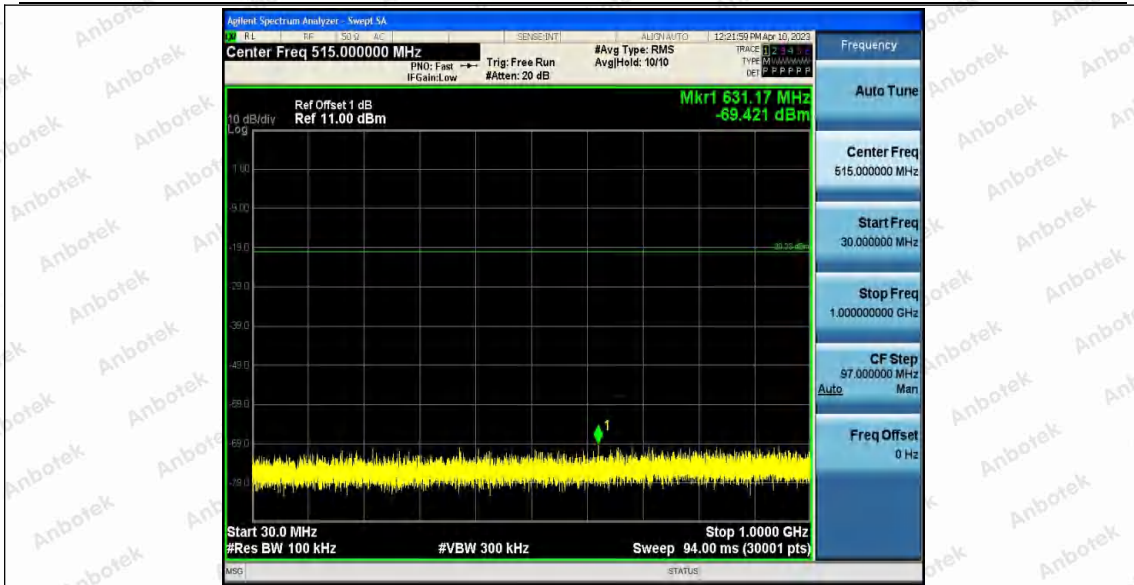
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

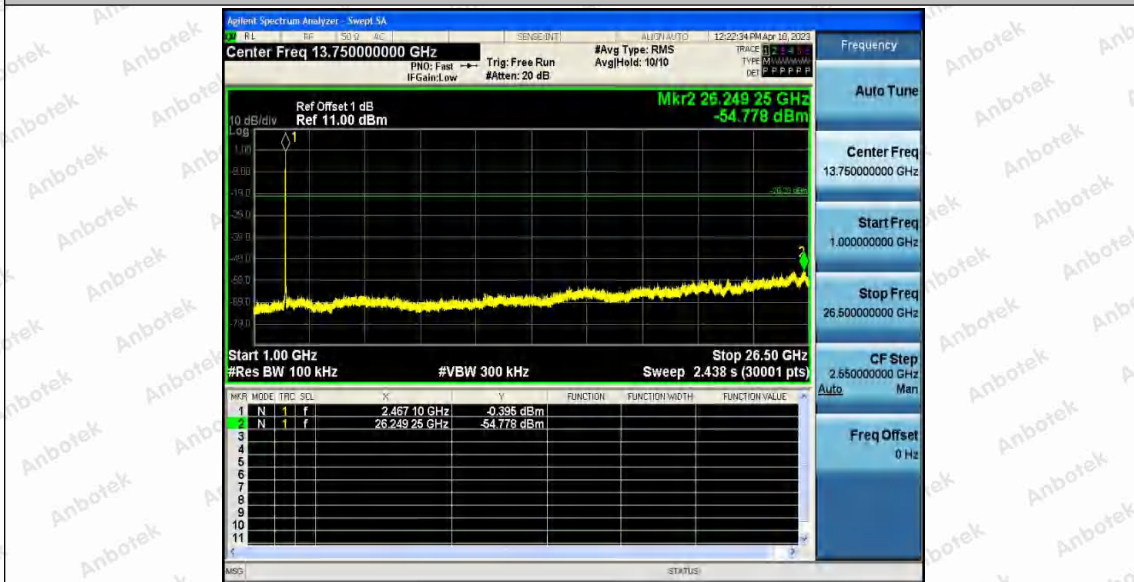


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11G_Ant1_2462_1000~26500



11N20SISO_Ant1_2412_0~Reference

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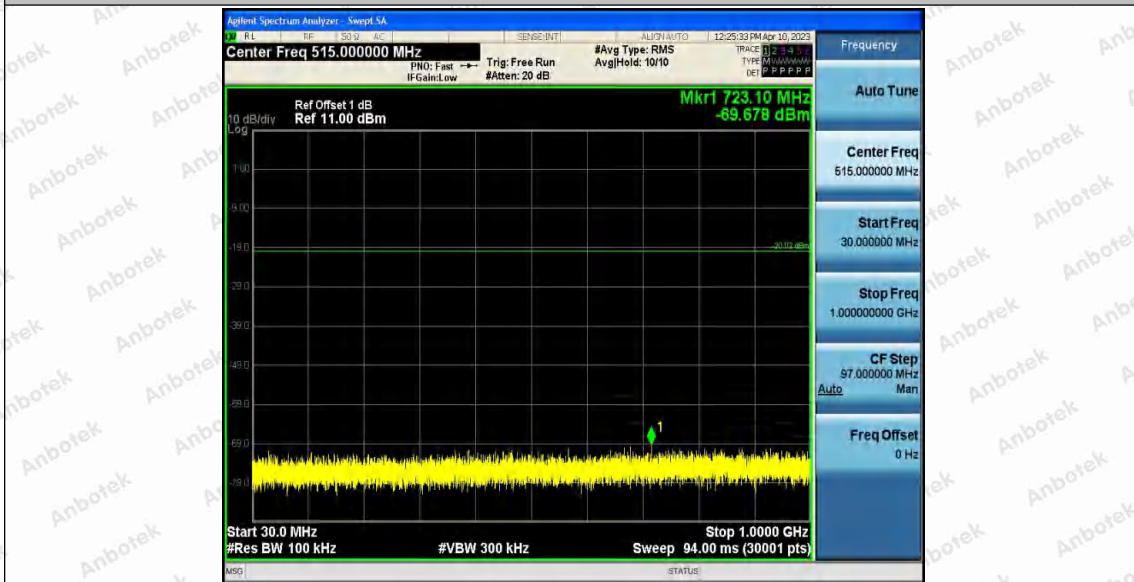
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11N20SISO_Ant1_2412_30~1000



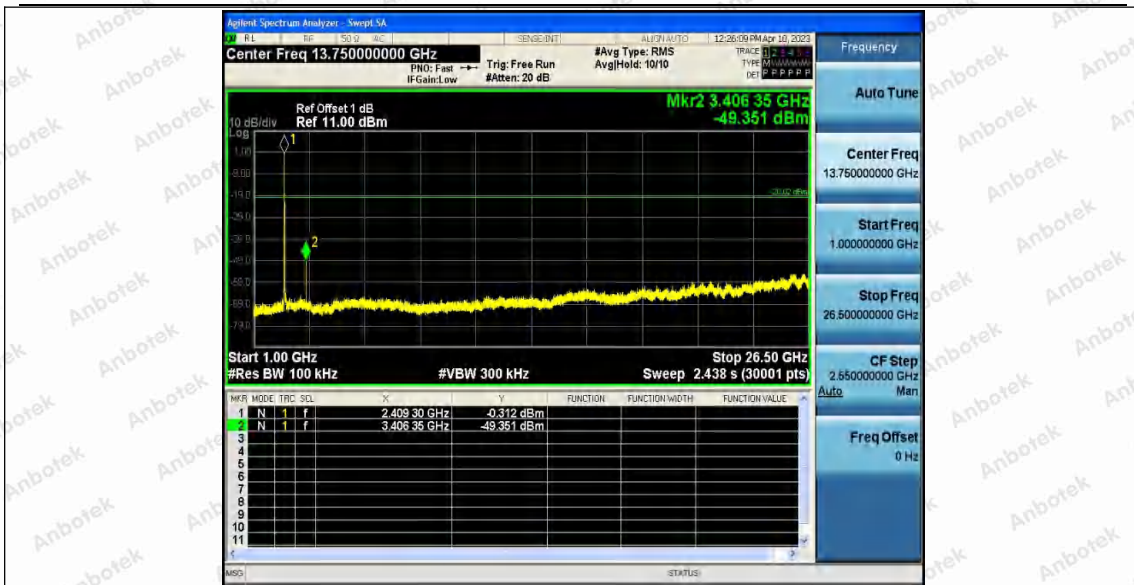
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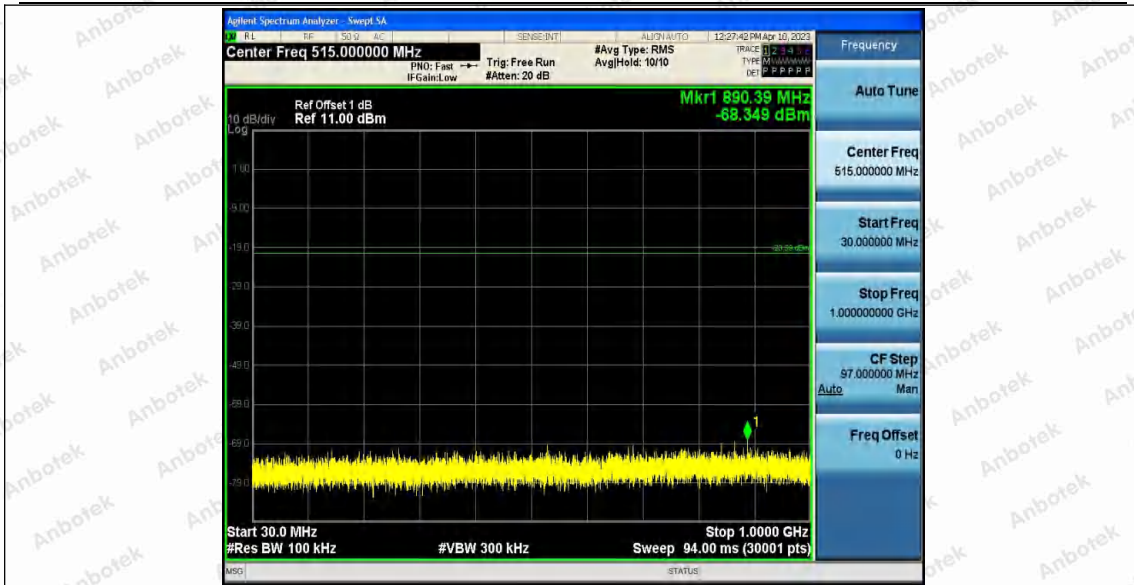
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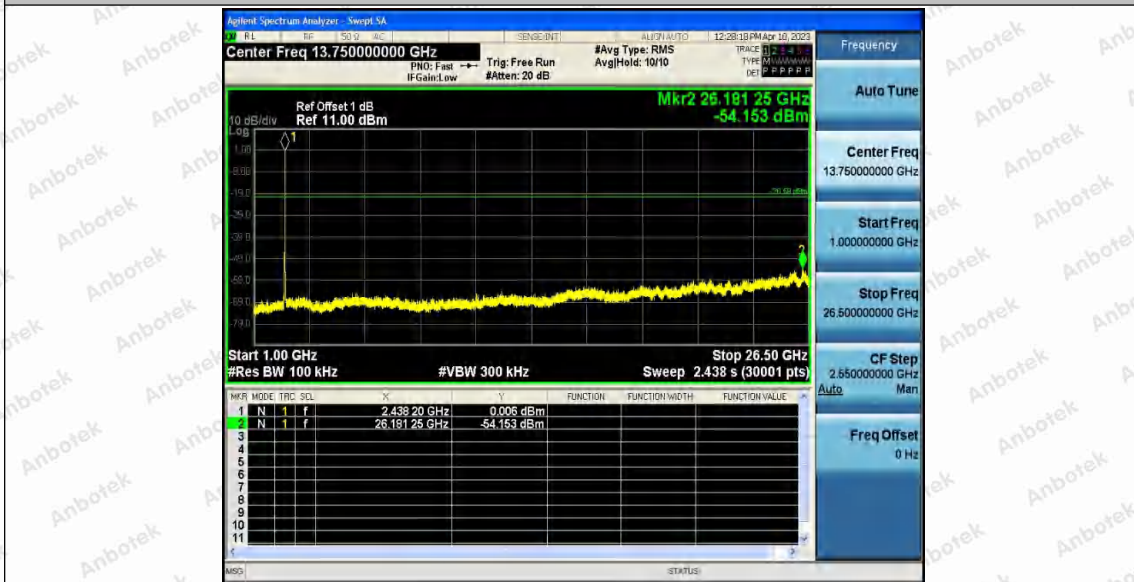
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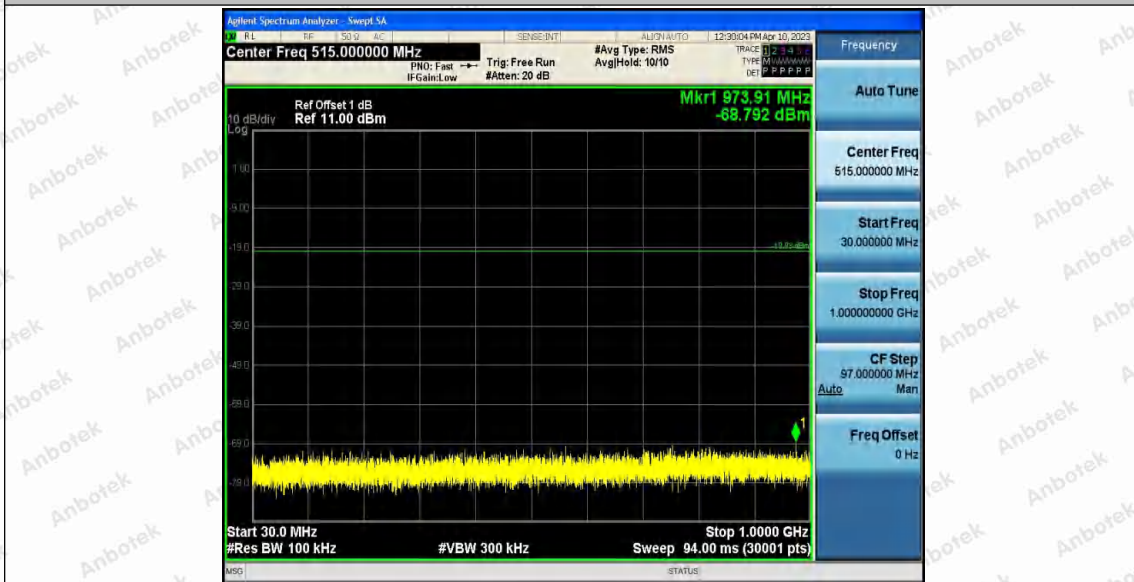
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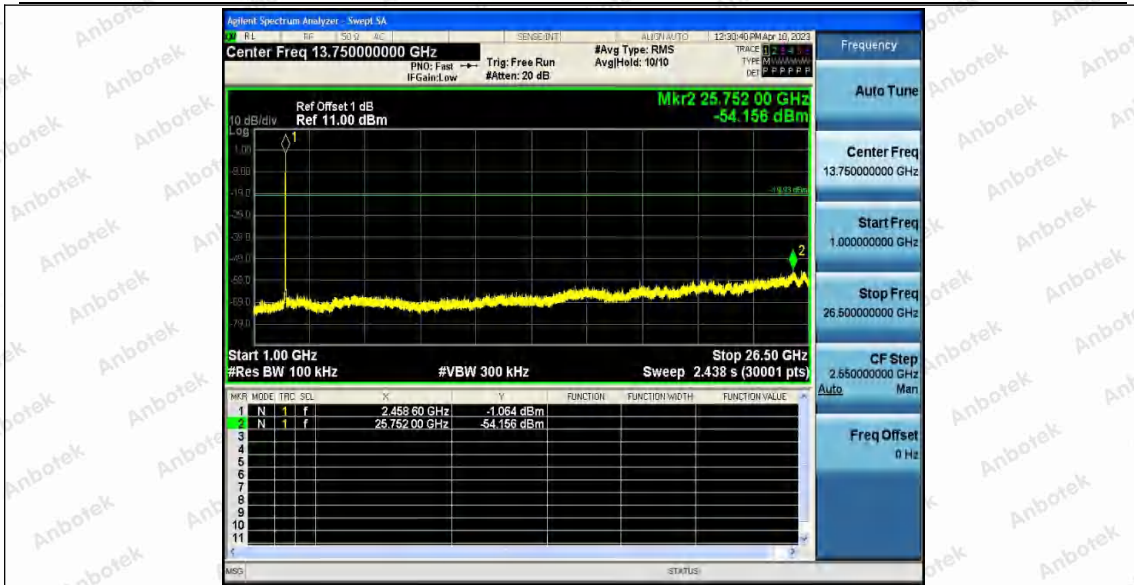
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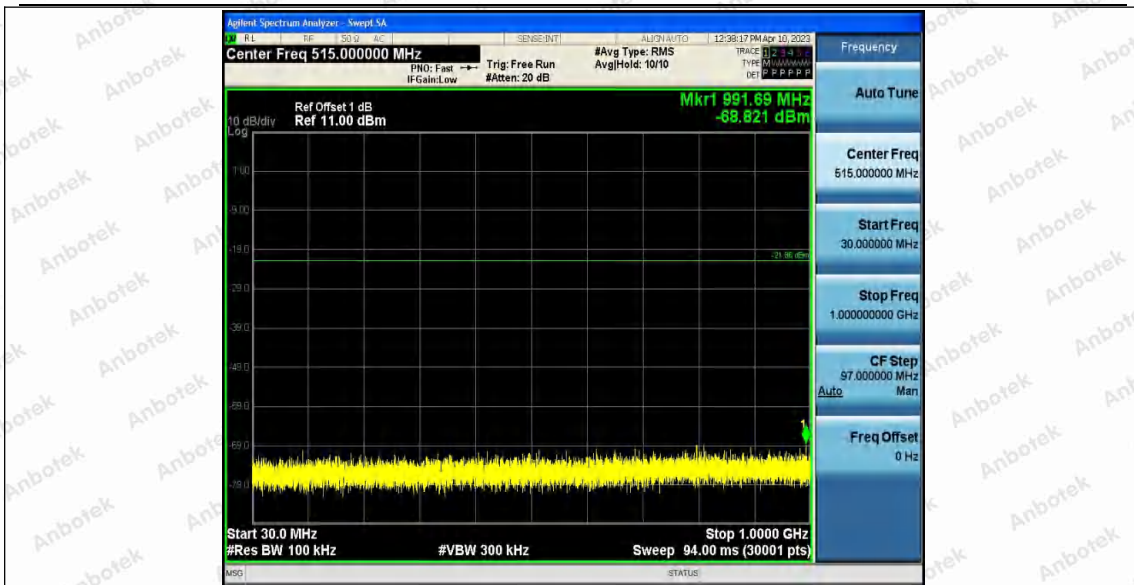
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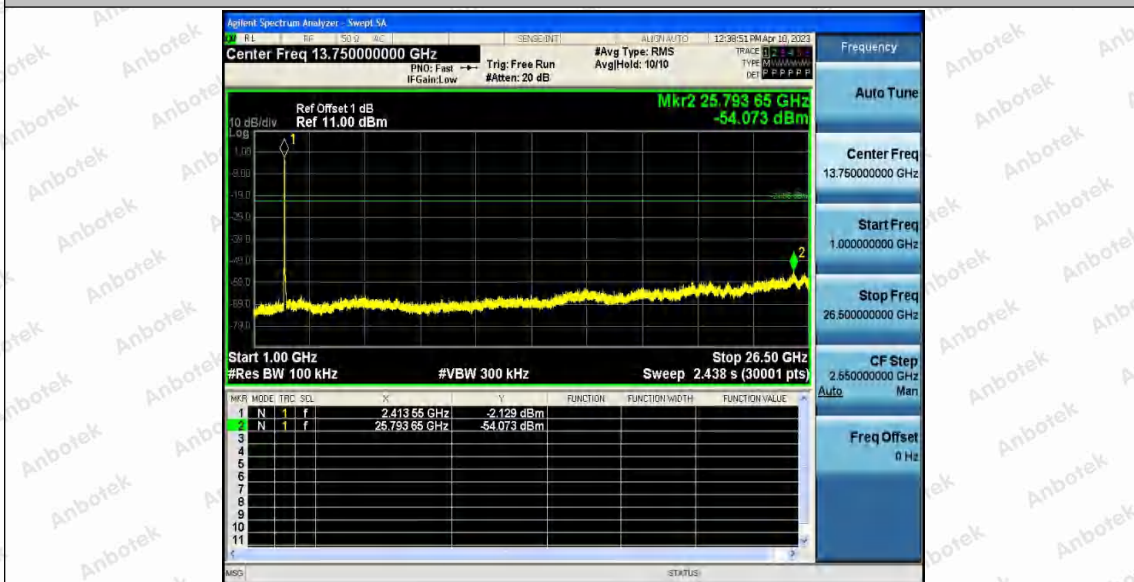
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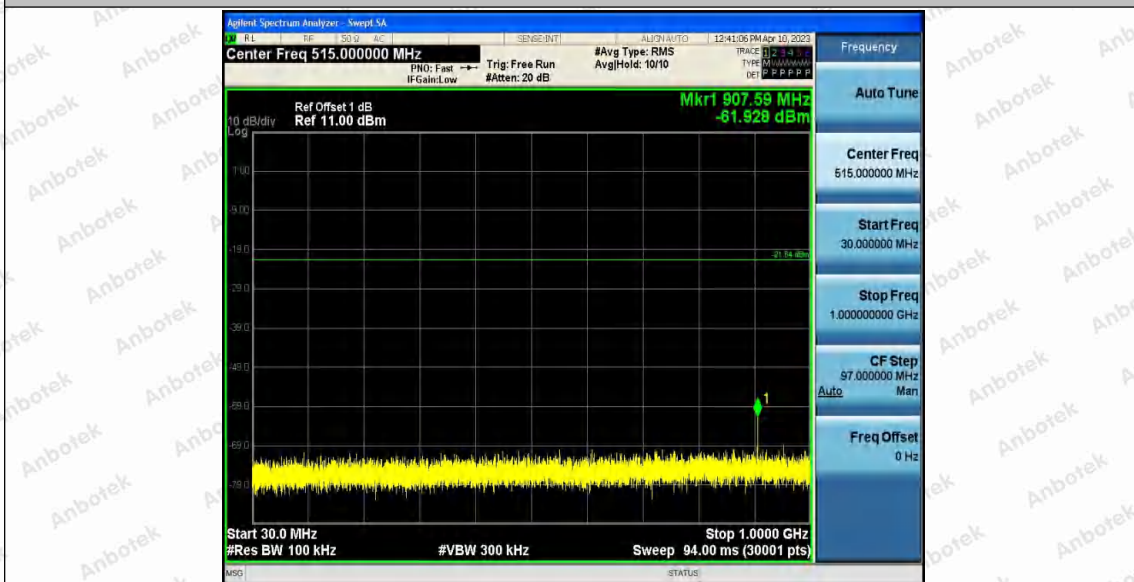


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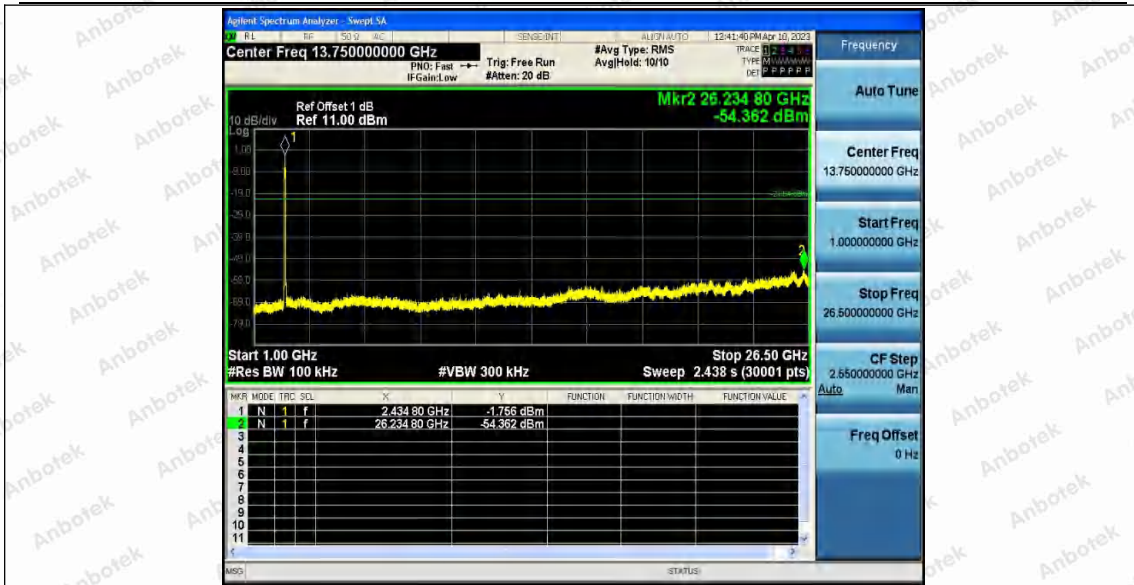
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11N40SISO_Ant1_2452_0~Reference



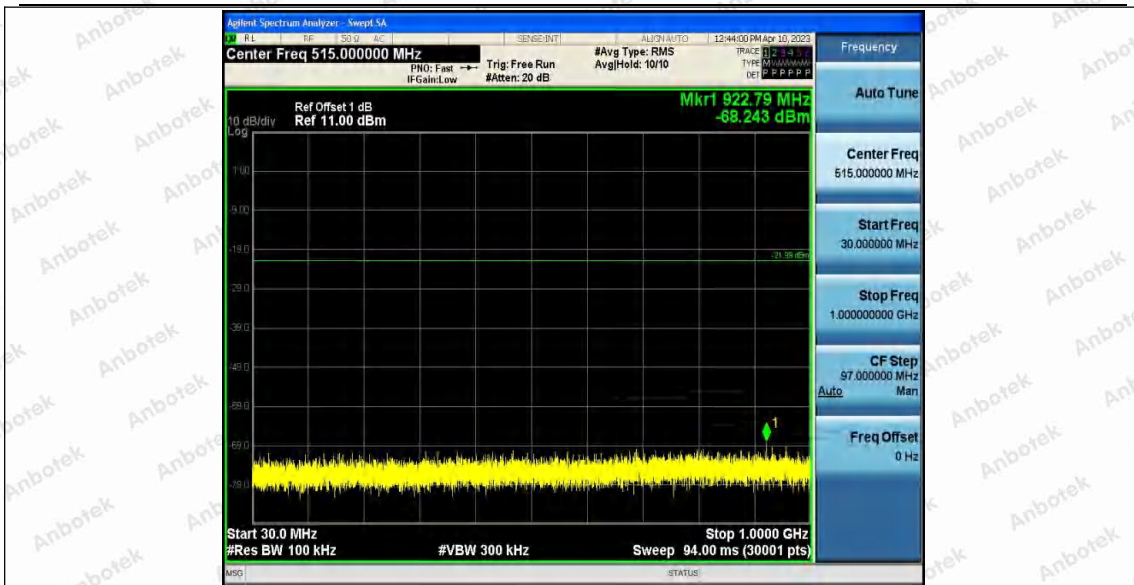
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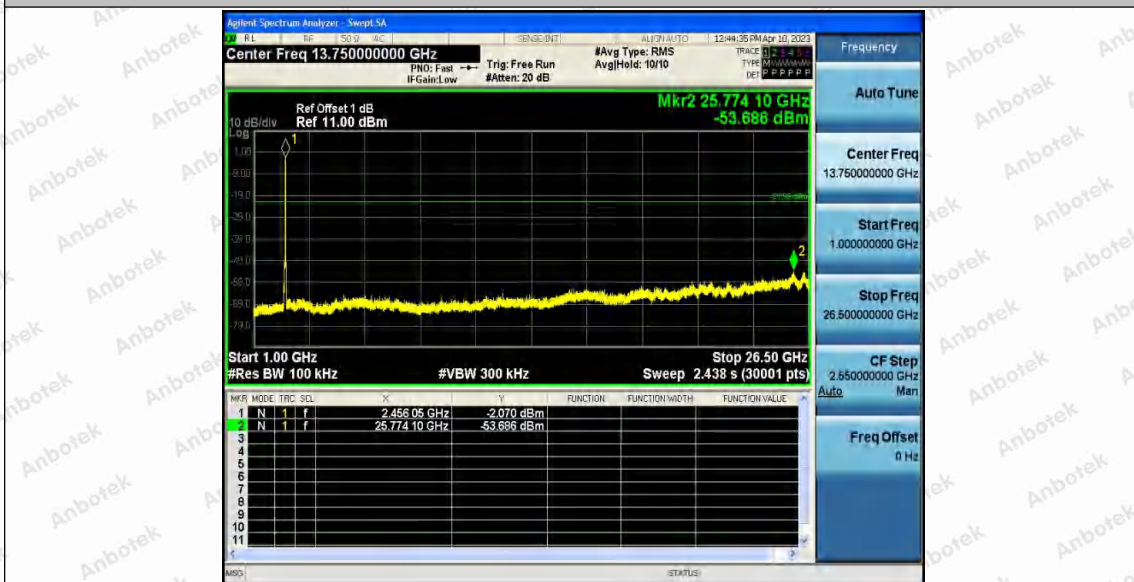
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11N40SISO_Ant1_2452_1000~26500



11AX20SISO_Ant1_2412_0~Reference

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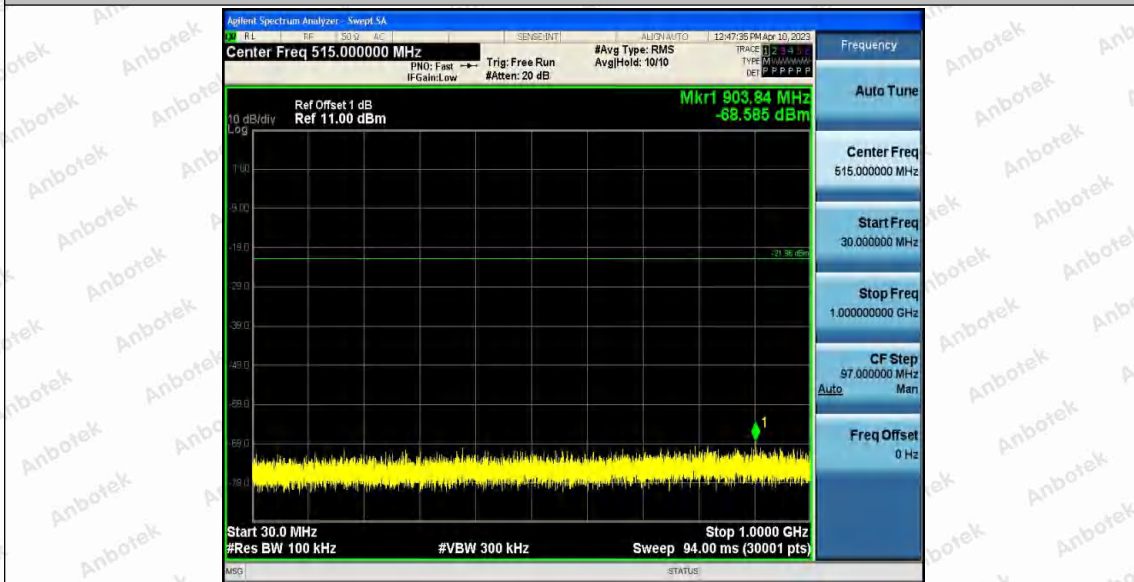
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11AX20SISO_Ant1_2412_30~1000



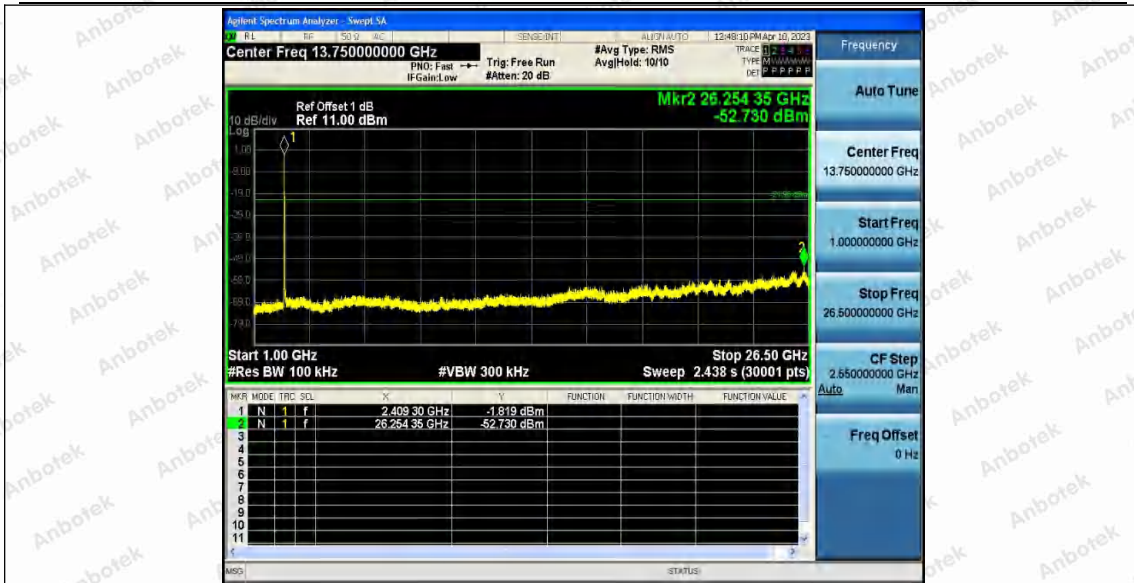
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11AX20SISO_Ant1_2437_0~Reference



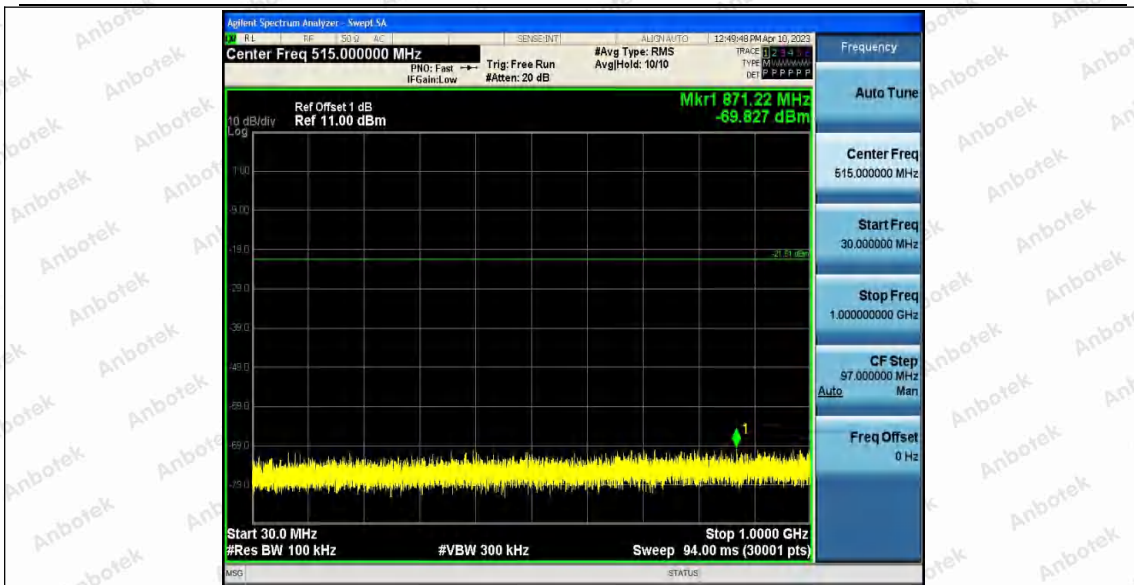
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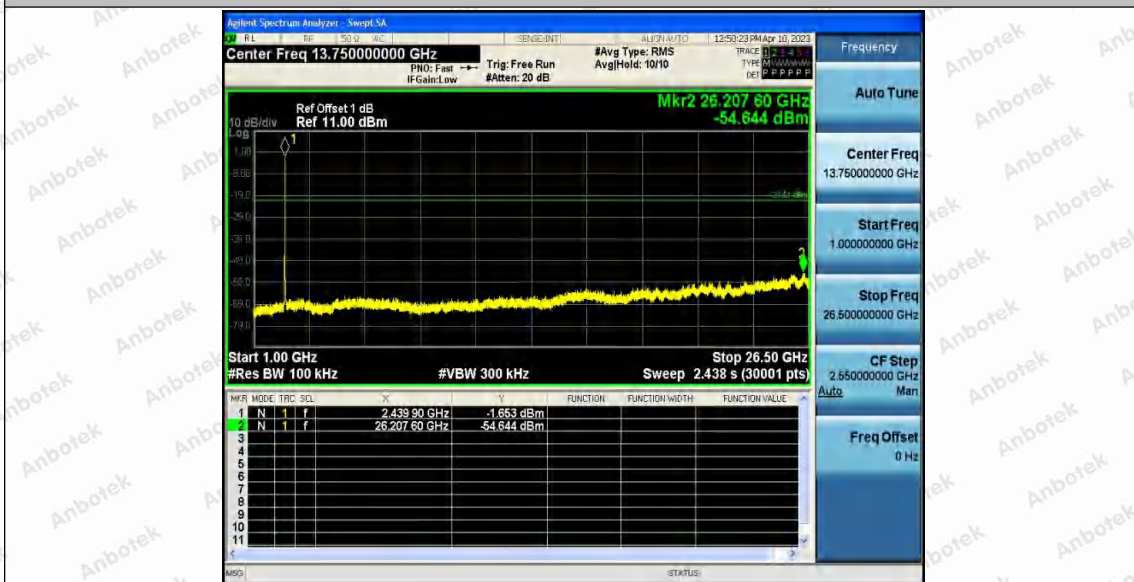
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11AX20SISO_Ant1_2437_1000~26500



11AX20SISO_Ant1_2462_0~Reference

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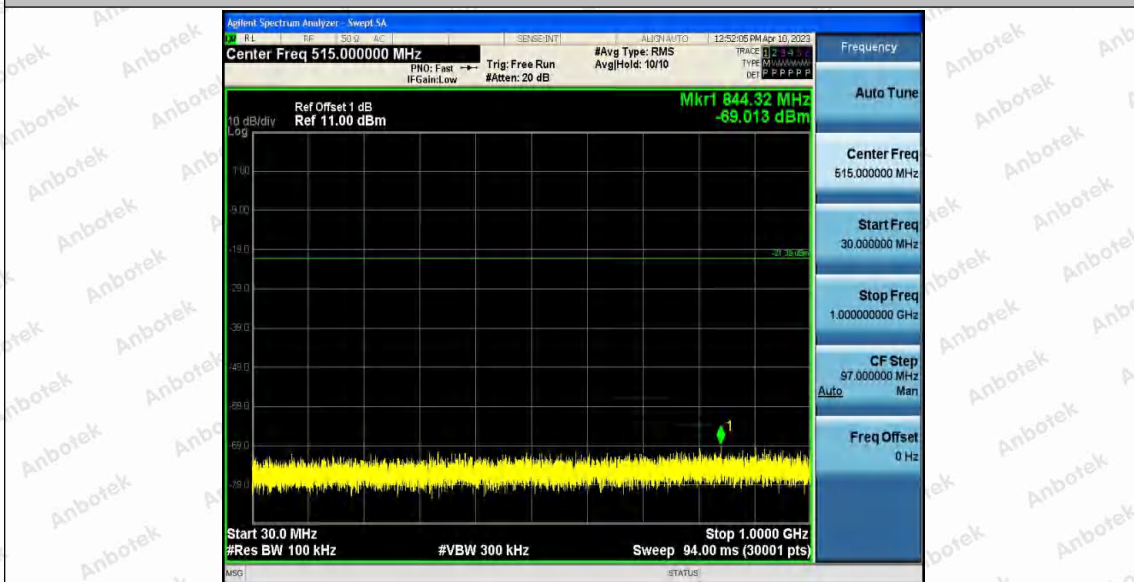
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11AX20SISO_Ant1_2462_30~1000



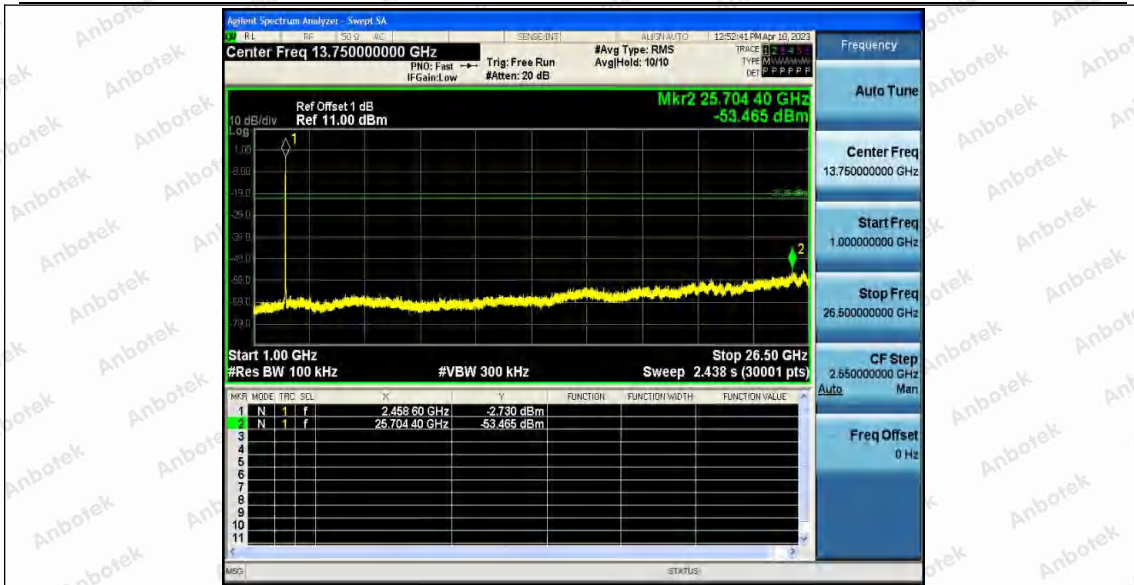
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11AX40SISO_Ant1_2422_0~Reference



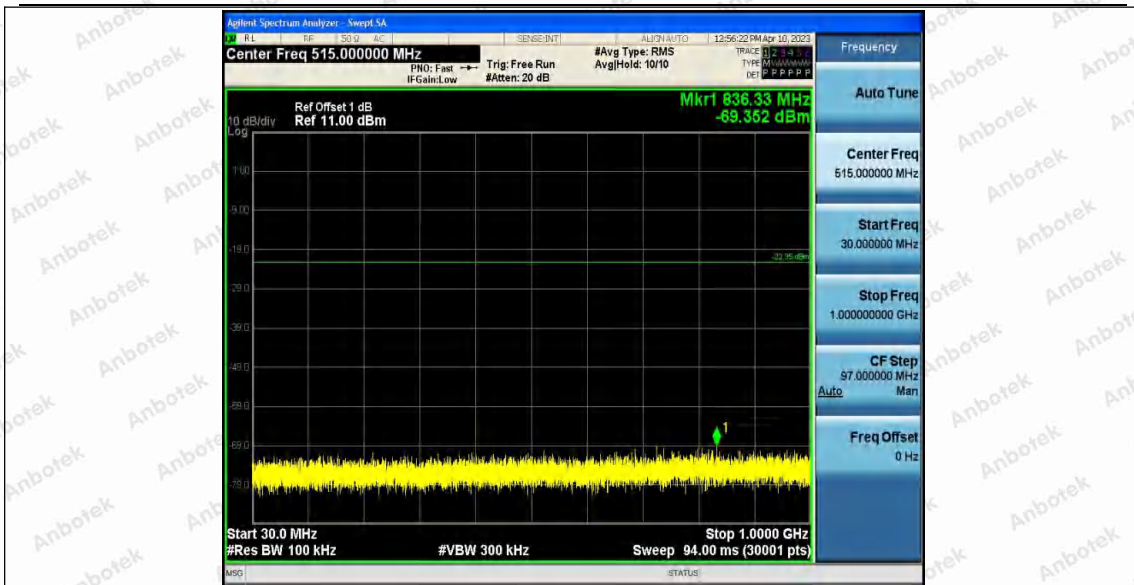
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Shenzhen Anbotek Compliance Laboratory Limited

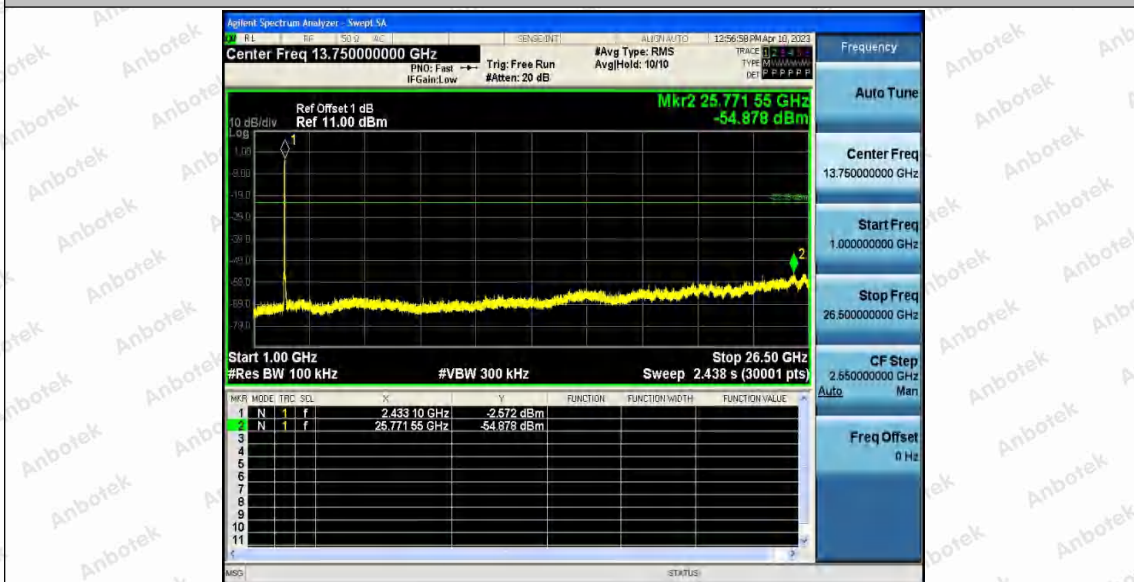
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11AX40SISO_Ant1_2422_1000~26500



11AX40SISO_Ant1_2437_0~Reference

Shenzhen Anbotek Compliance Laboratory Limited

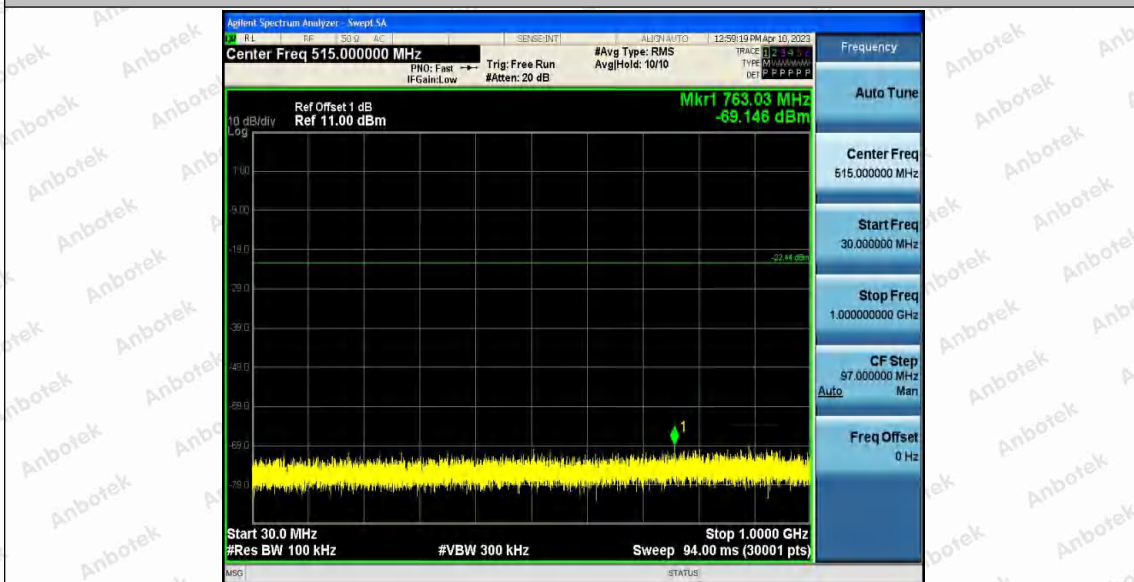
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11AX40SISO_Ant1_2437_30~1000



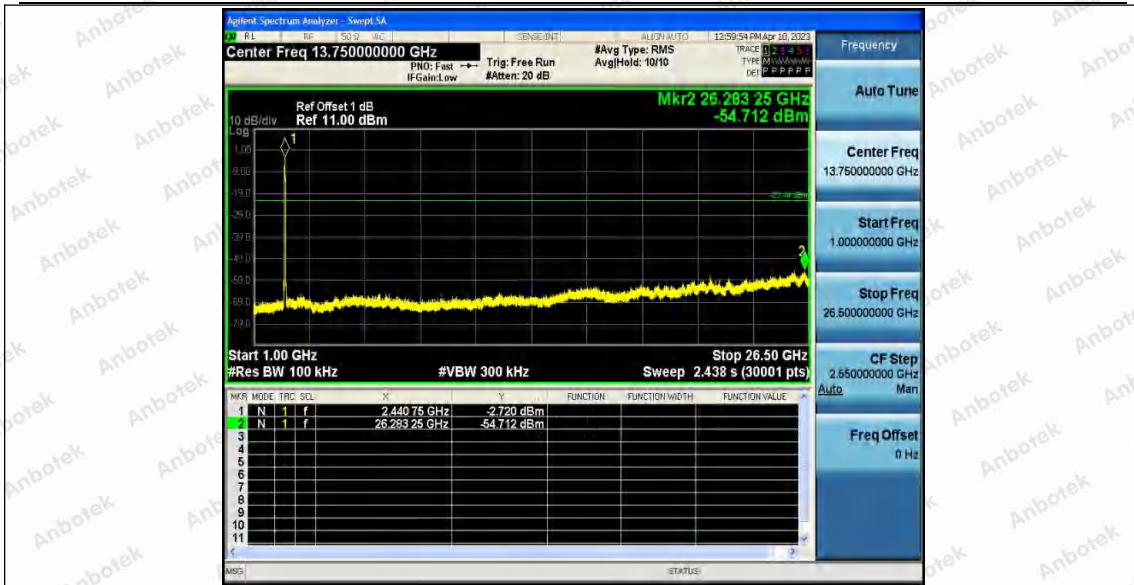
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11AX40SISO_Ant1_2452_0~Reference



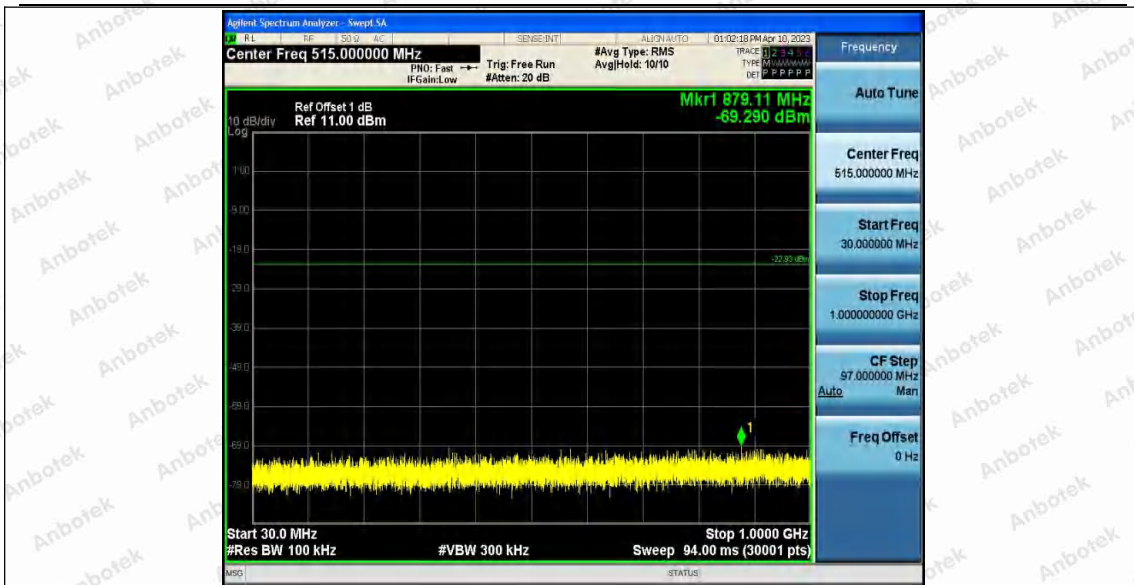
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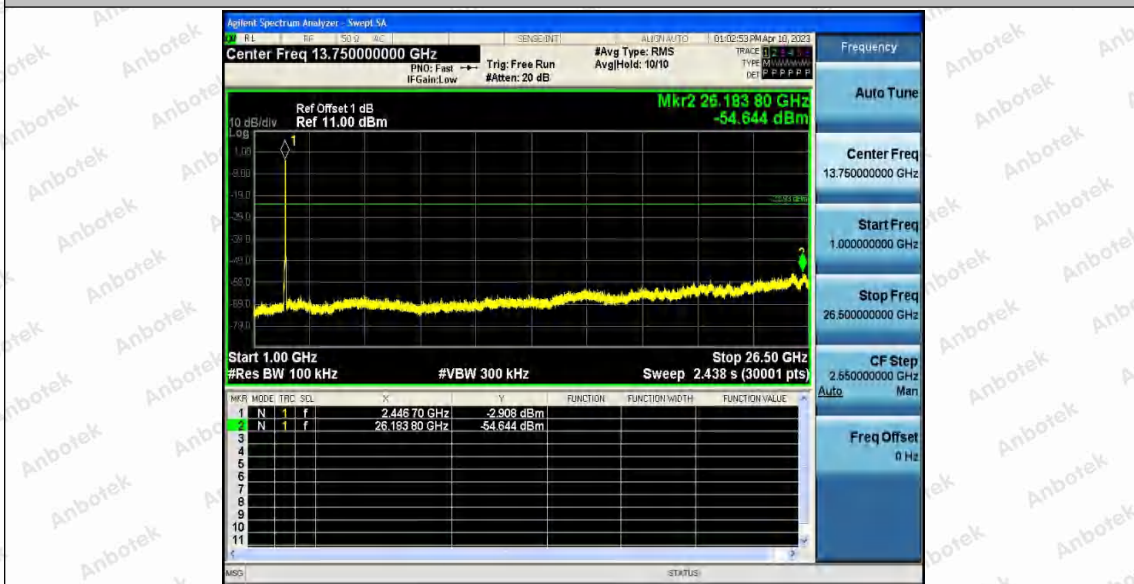
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11AX40SISO_Ant1_2452_1000~26500



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Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.35	8.40	99.40	0.03
		2437	8.36	8.40	99.52	0.02
		2462	8.36	8.40	99.52	0.02
11G	Ant1	2412	0.15	0.20	75.00	1.25
		2437	0.14	0.19	73.68	1.33
		2462	0.15	0.20	75.00	1.25
11N20SISO	Ant1	2412	0.18	0.23	78.26	1.06
		2437	0.17	0.22	77.27	1.12
		2462	0.17	0.22	77.27	1.12
11N40SISO	Ant1	2422	0.18	0.23	78.26	1.06
		2437	0.18	0.22	81.82	0.87
		2452	0.18	0.23	78.26	1.06
11AX20SISO	Ant1	2412	0.26	0.31	83.87	0.76
		2437	0.26	0.31	83.87	0.76
		2462	0.26	0.31	83.87	0.76
11AX40SISO	Ant1	2422	0.18	0.23	78.26	1.06
		2437	0.18	0.23	78.26	1.06
		2452	0.17	0.22	77.27	1.12

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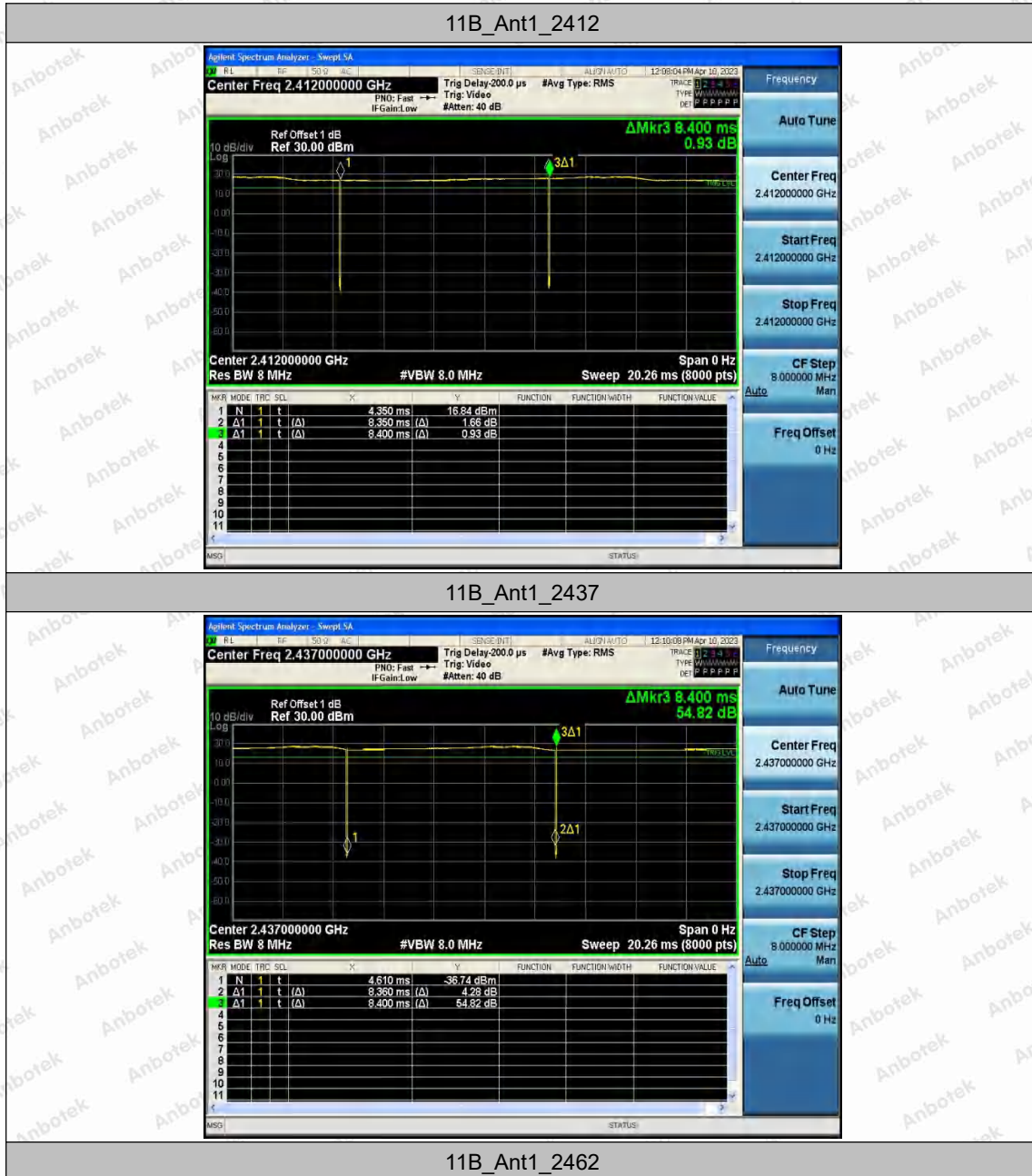
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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Test Graphs

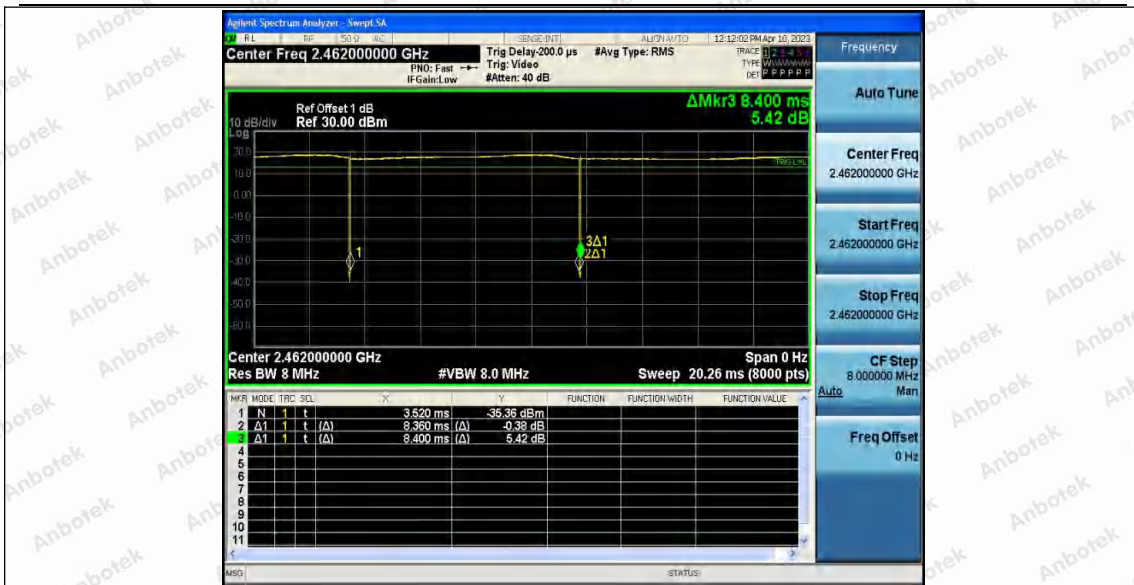


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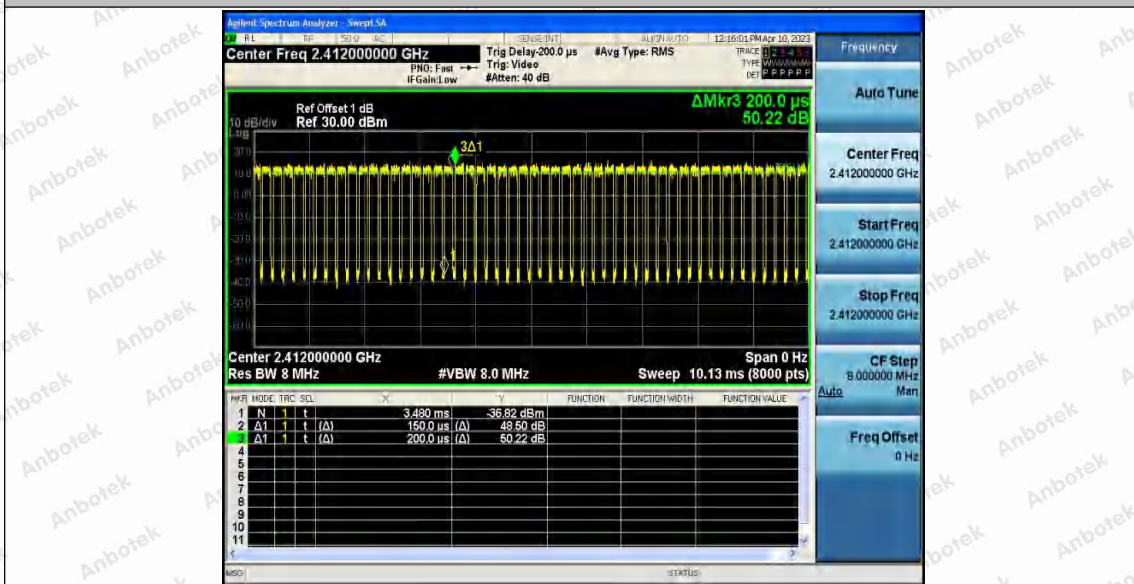
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11G_Ant1_2412



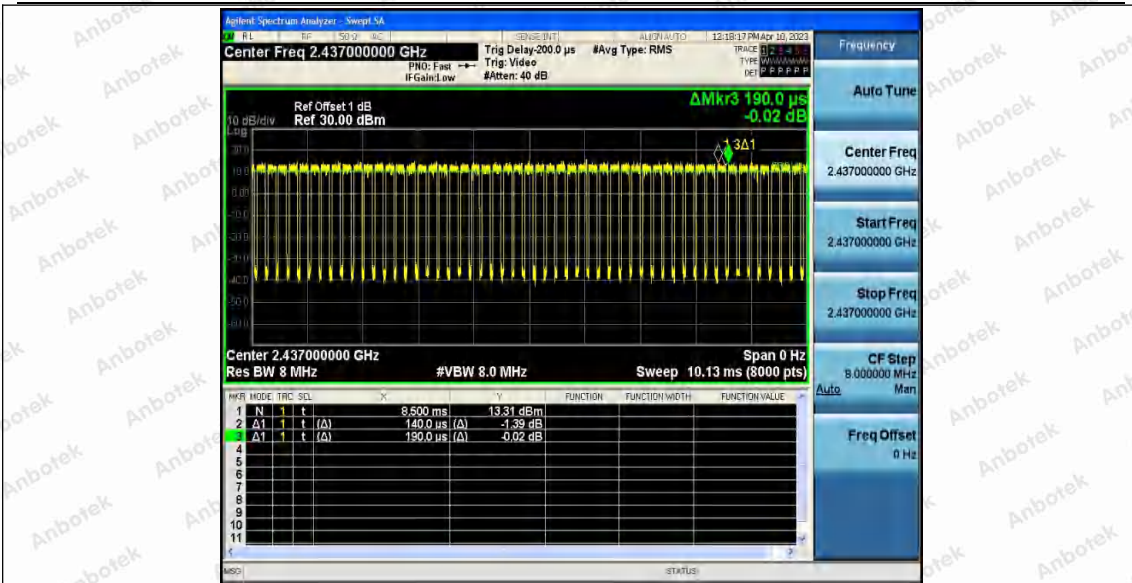
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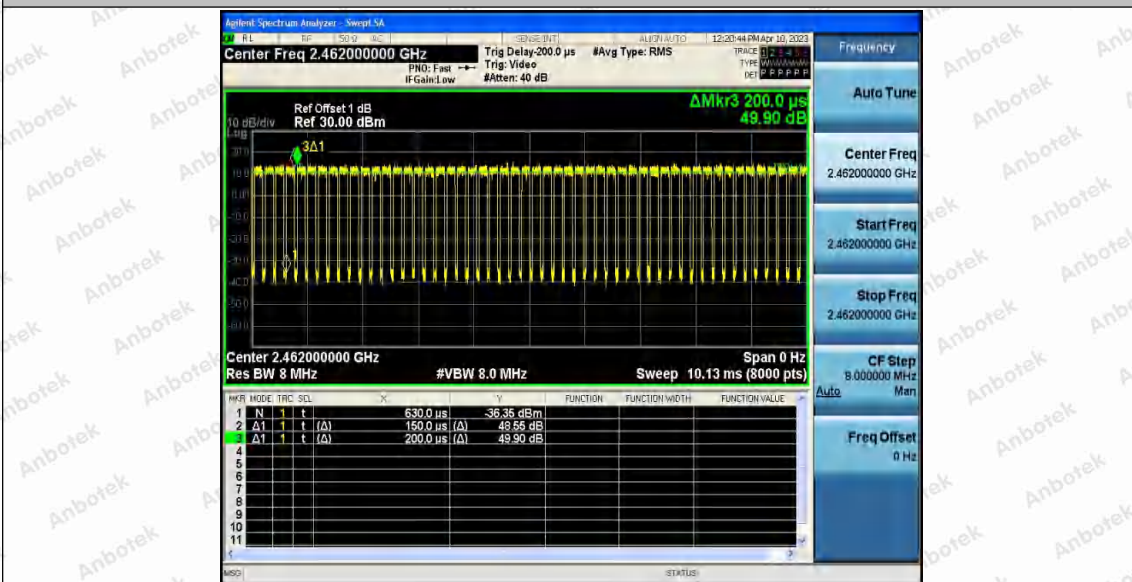
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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11G_Ant1_2462



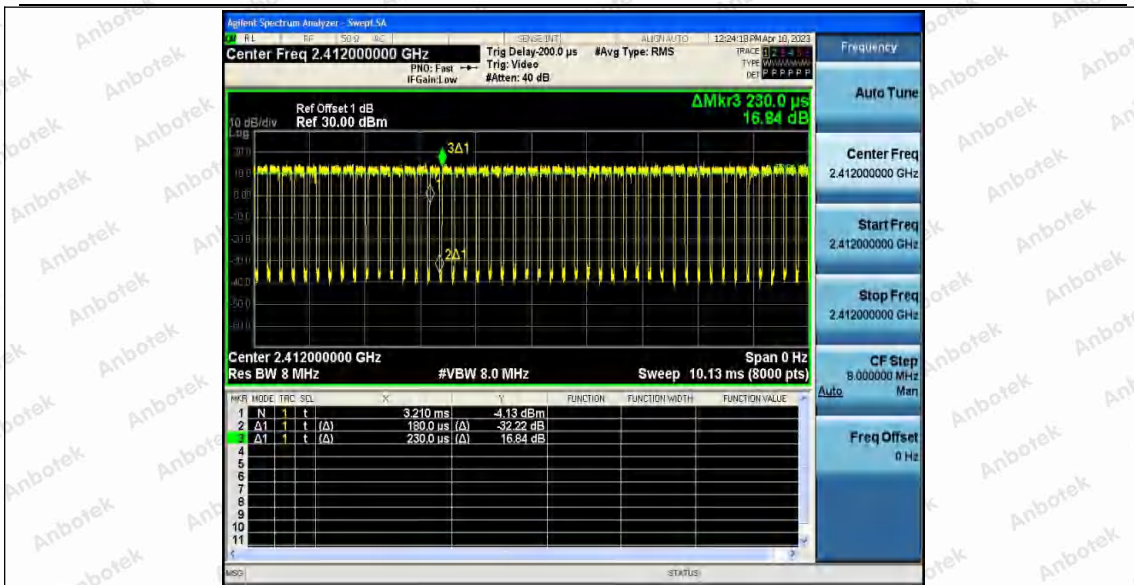
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Shenzhen Anbotek Compliance Laboratory Limited

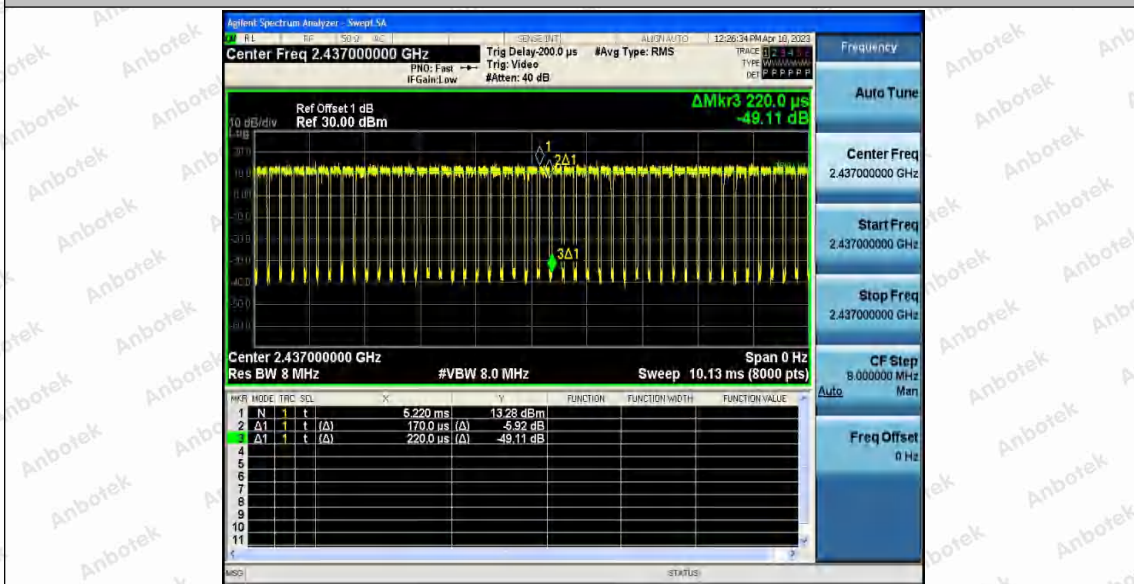
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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11N20SISO_Ant1_2437



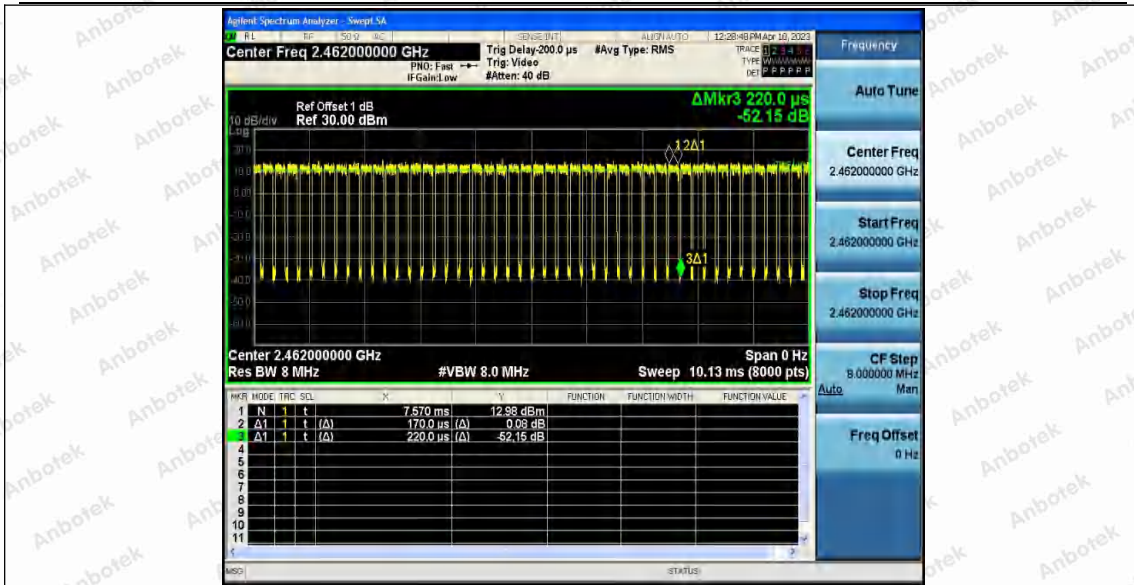
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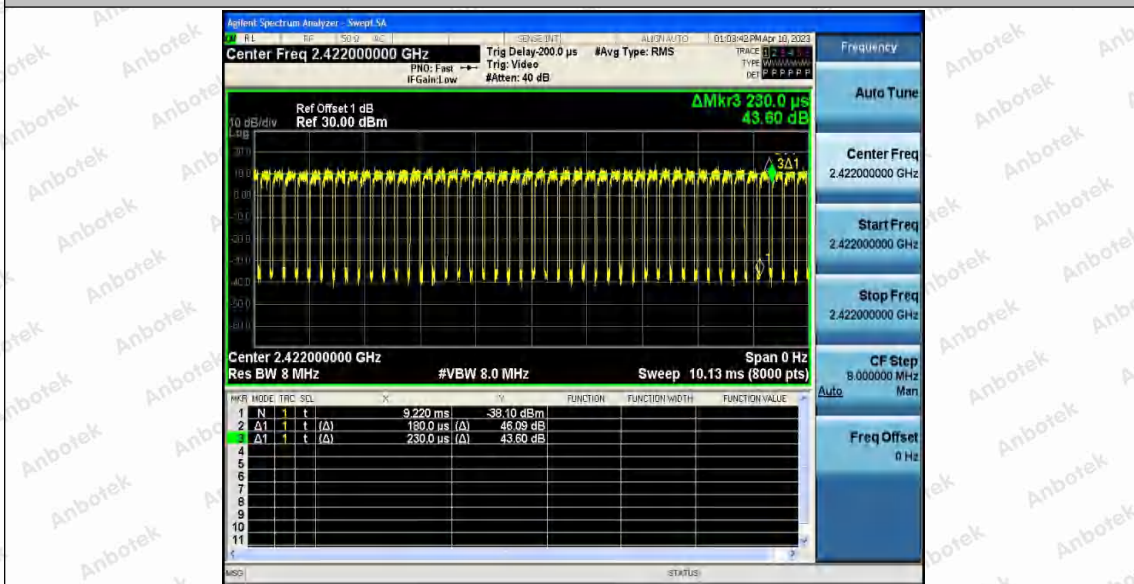
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11N40SISO_Ant1_2422



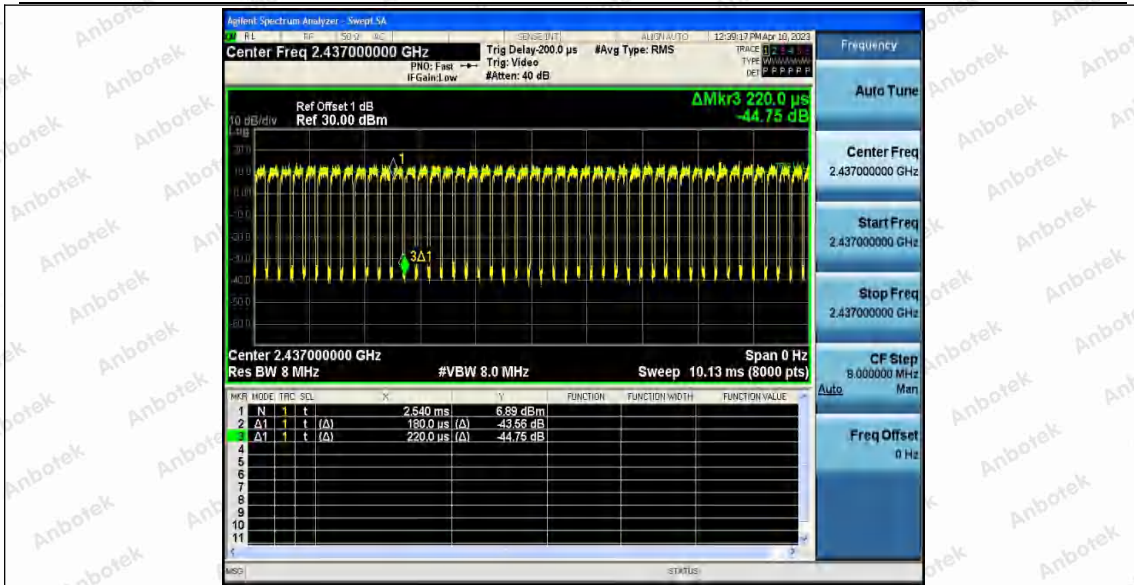
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Shenzhen Anbotek Compliance Laboratory Limited

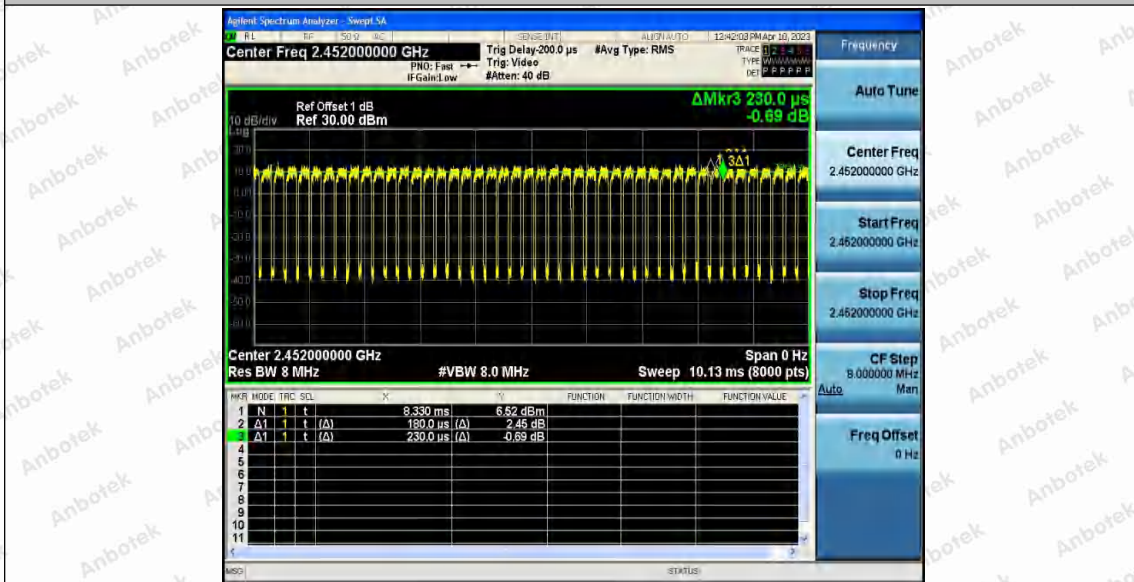
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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11N40SISO_Ant1_2452



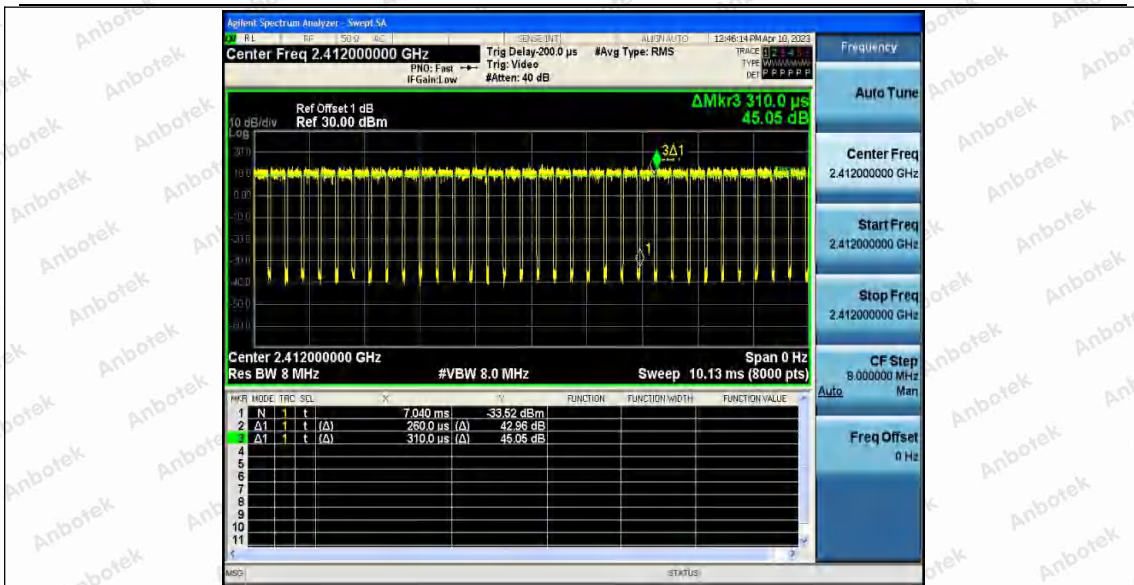
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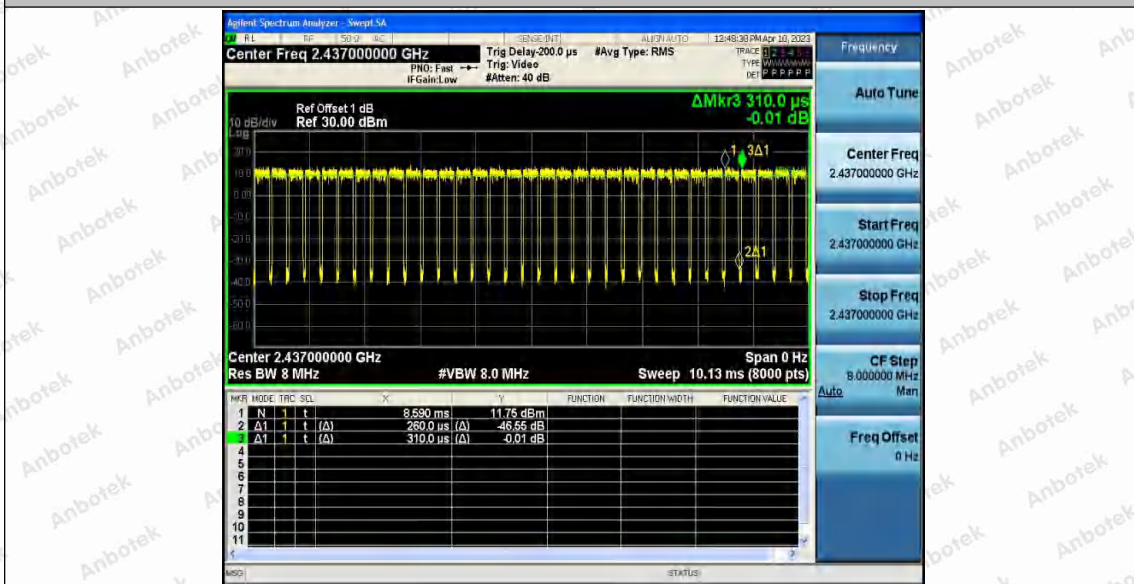
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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11AX20SISO_Ant1_2437



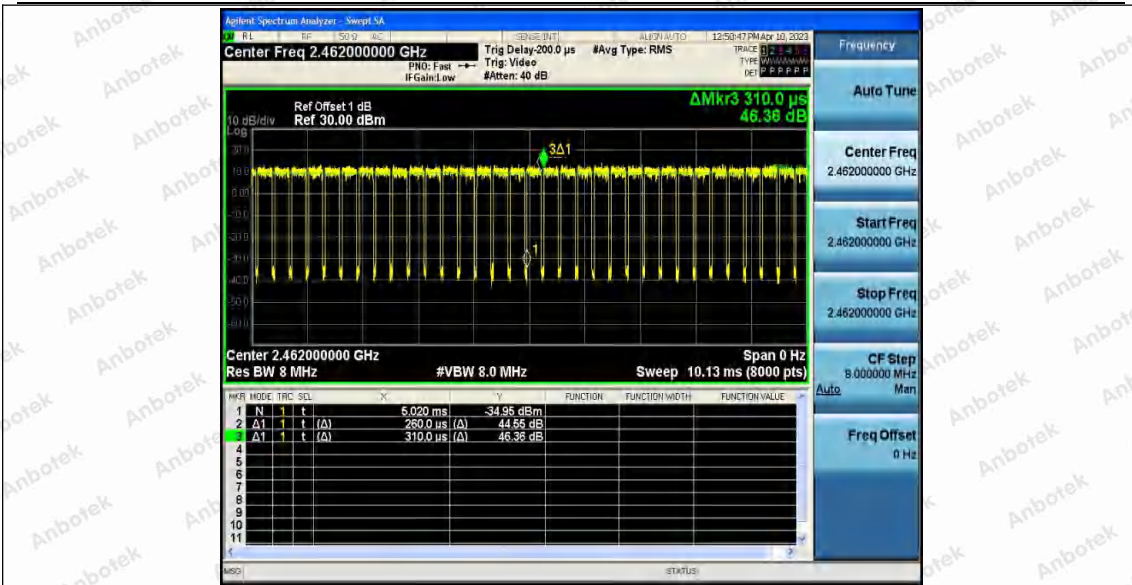
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Shenzhen Anbotek Compliance Laboratory Limited

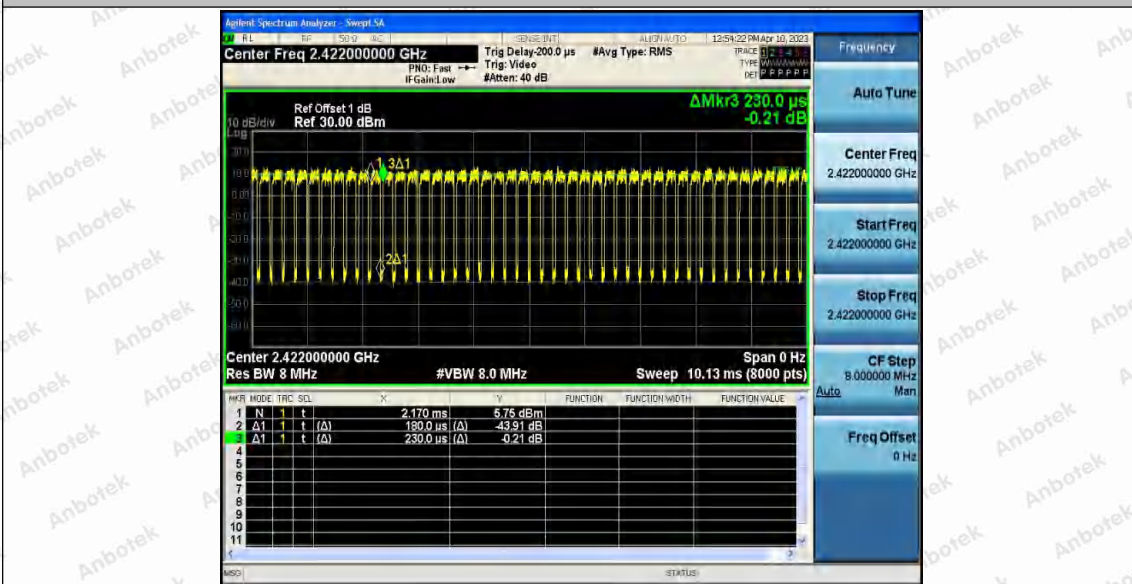
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11AX40SISO_Ant1_2422



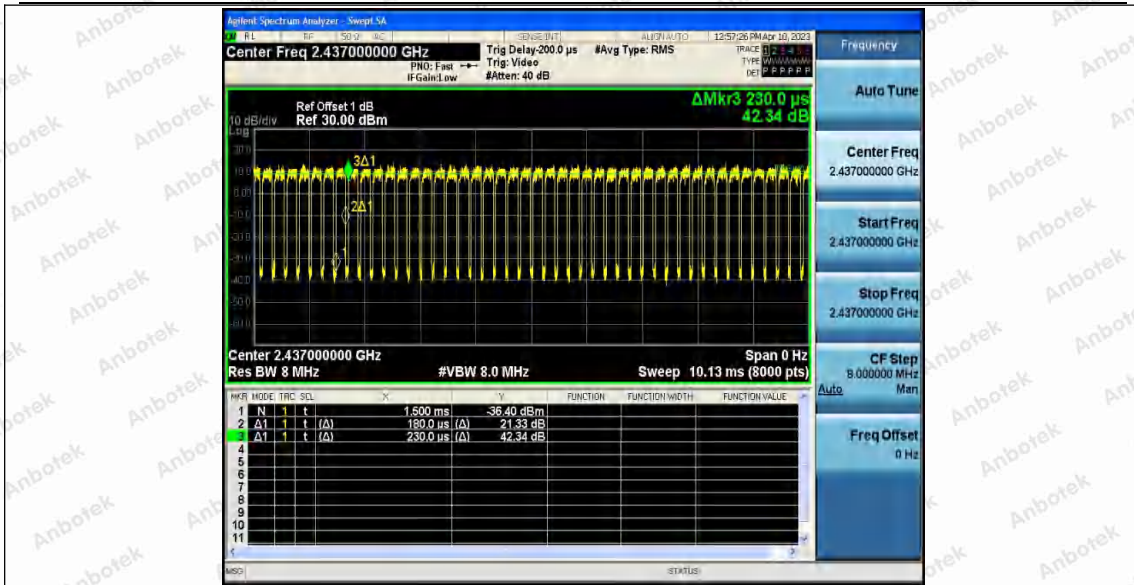
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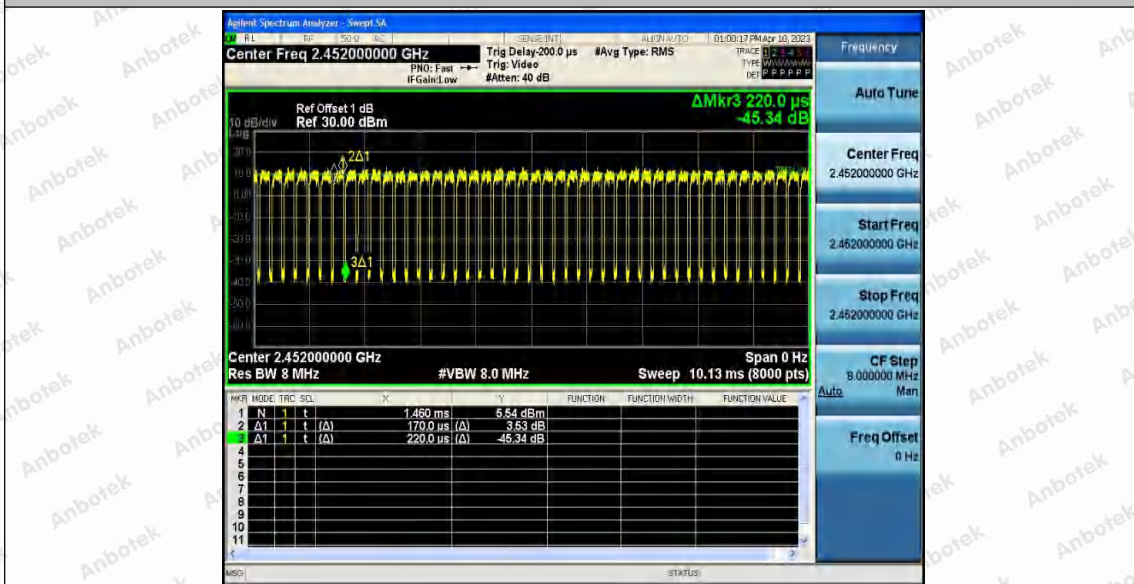
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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11AX40SISO_Ant1_2452



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