

## Appendix Test Data

Report No.:	18220WC30267202	Test Sample No.:	1-2-2
Start Test Date:	2023.12.20	Finish Test Date:	2023.12.21
Test Engineer:	Hayman Chen	Auditor:	Rick Luo
Temperature:	25.3°C	Relative Humidity:	44%
Pressure:	101kPa		

## Appendix A: DTS Bandwidth

## Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.040	2406.960	2417.000	0.5	PASS
		2437	10.040	2432.000	2442.040	0.5	PASS
		2462	10.080	2456.960	2467.040	0.5	PASS
11G	Ant1	2412	16.400	2403.840	2420.240	0.5	PASS
		2437	16.320	2428.840	2445.160	0.5	PASS
		2462	16.360	2453.840	2470.200	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.240	2420.800	0.5	PASS
		2437	17.560	2428.240	2445.800	0.5	PASS
		2462	17.560	2453.240	2470.800	0.5	PASS
11N40SISO	Ant1	2422	35.120	2404.480	2439.600	0.5	PASS
		2437	35.120	2419.480	2454.600	0.5	PASS
		2452	35.040	2434.480	2469.520	0.5	PASS

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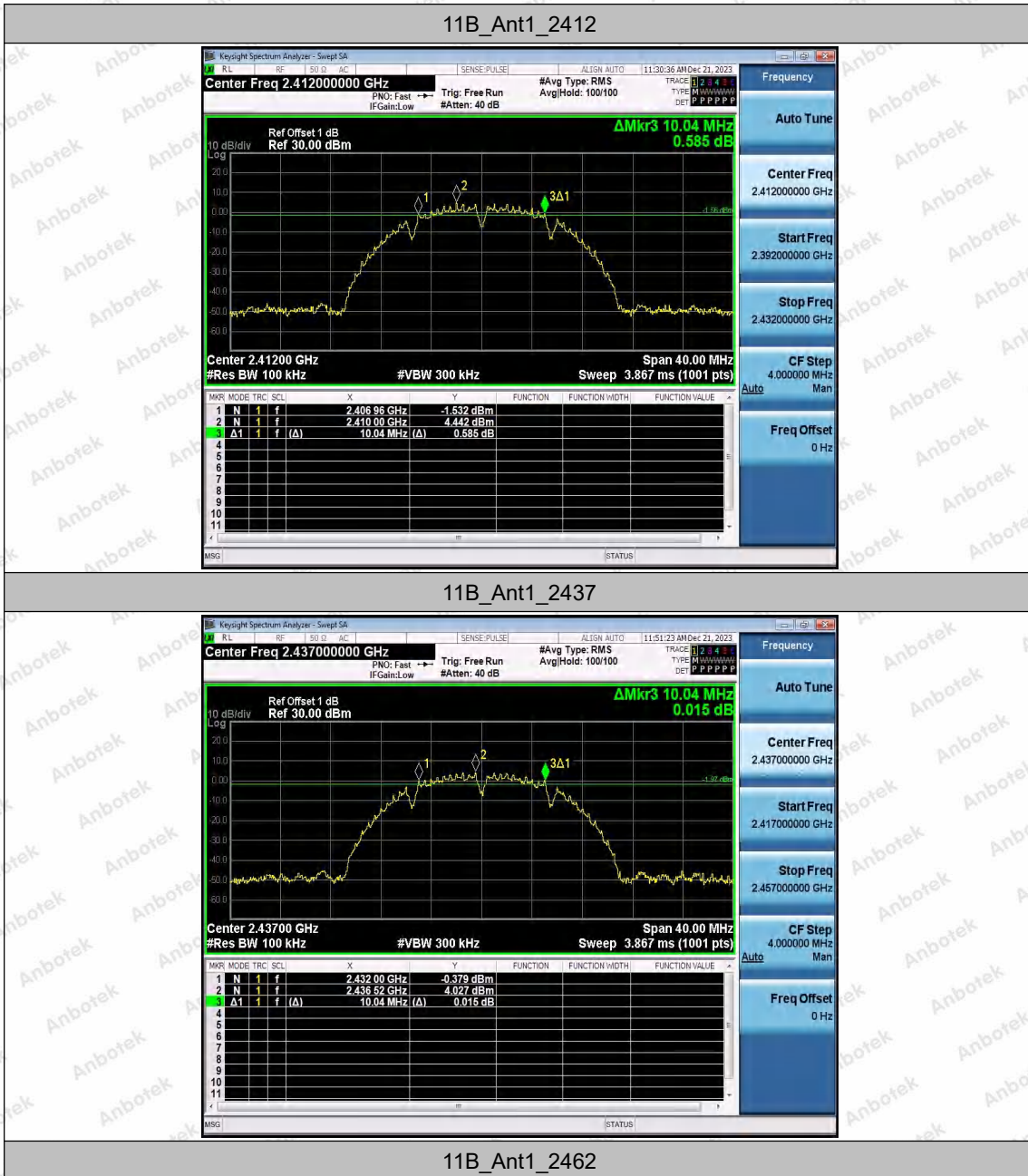
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## Test Graphs



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11G\_Ant1\_2412



11G\_Ant1\_2437



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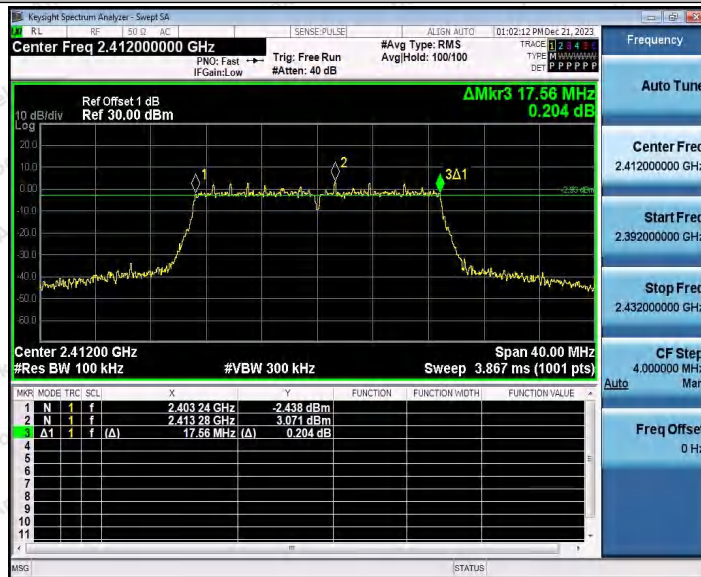
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### 11G\_Ant1\_2462



### 11N20SISO\_Ant1\_2412



### 11N20SISO\_Ant1\_2437

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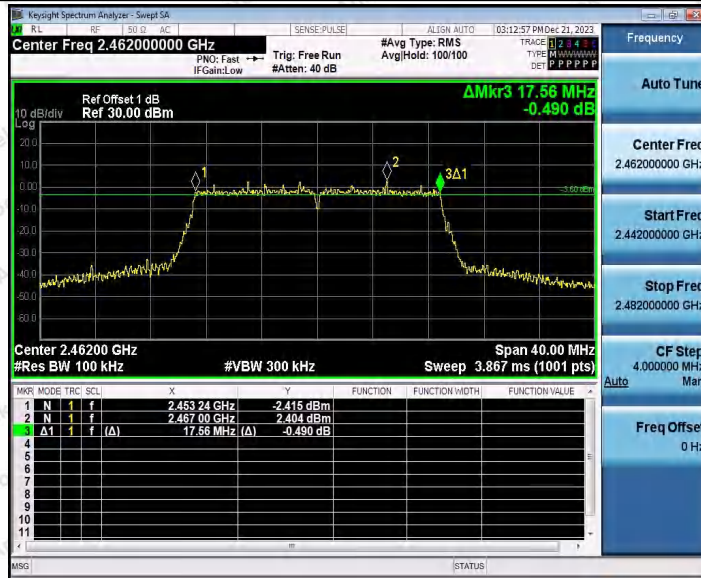
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11N20SISO\_Ant1\_2462



11N40SISO\_Ant1\_2422



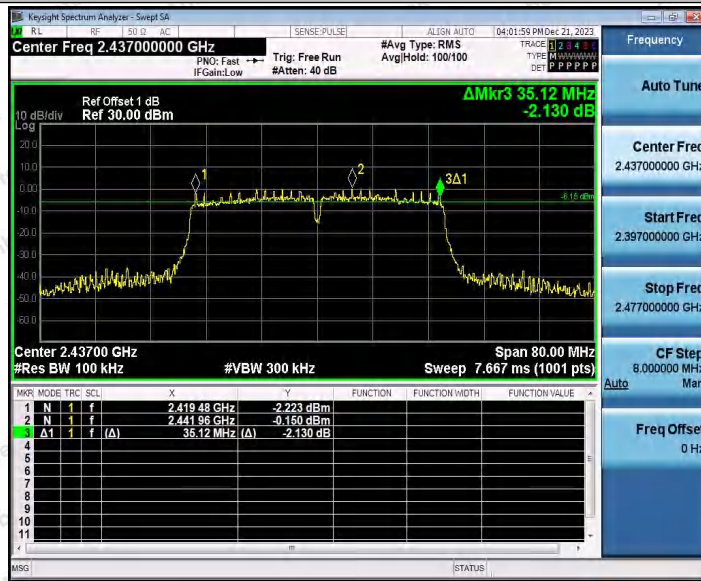
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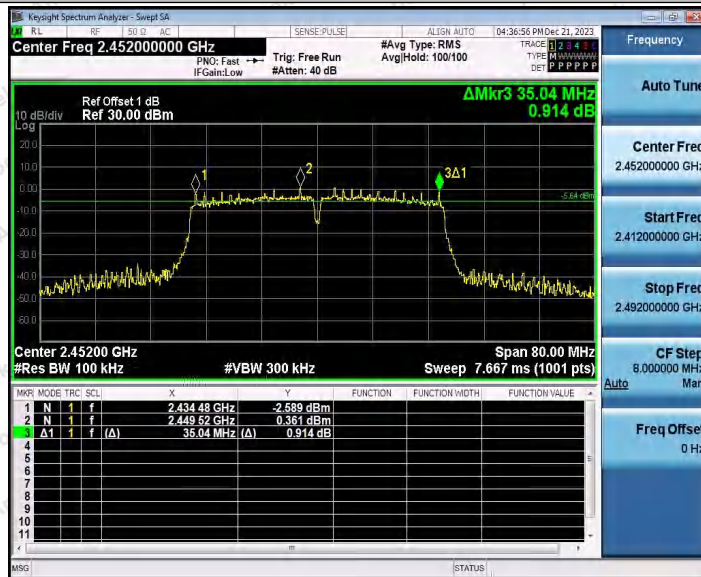
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11N40SISO\_Ant1\_2437



11N40SISO\_Ant1\_2452



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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	14.278	2404.9223	2419.2003	---	---
		2437	14.276	2429.9093	2444.1853	---	---
		2462	14.270	2454.8778	2469.1478	---	---
11G	Ant1	2412	17.101	2403.4686	2420.5696	---	---
		2437	17.064	2428.5025	2445.5665	---	---
		2462	17.133	2453.4377	2470.5707	---	---
11N20SISO	Ant1	2412	17.970	2403.0720	2421.0420	---	---
		2437	18.057	2428.0287	2446.0857	---	---
		2462	17.969	2453.0746	2471.0436	---	---
11N40SISO	Ant1	2422	35.988	2404.1378	2440.1258	---	---
		2437	35.994	2419.1266	2455.1206	---	---
		2452	35.878	2434.1565	2470.0345	---	---



## Test Graphs



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11G\_Ant1\_2412



11G\_Ant1\_2437

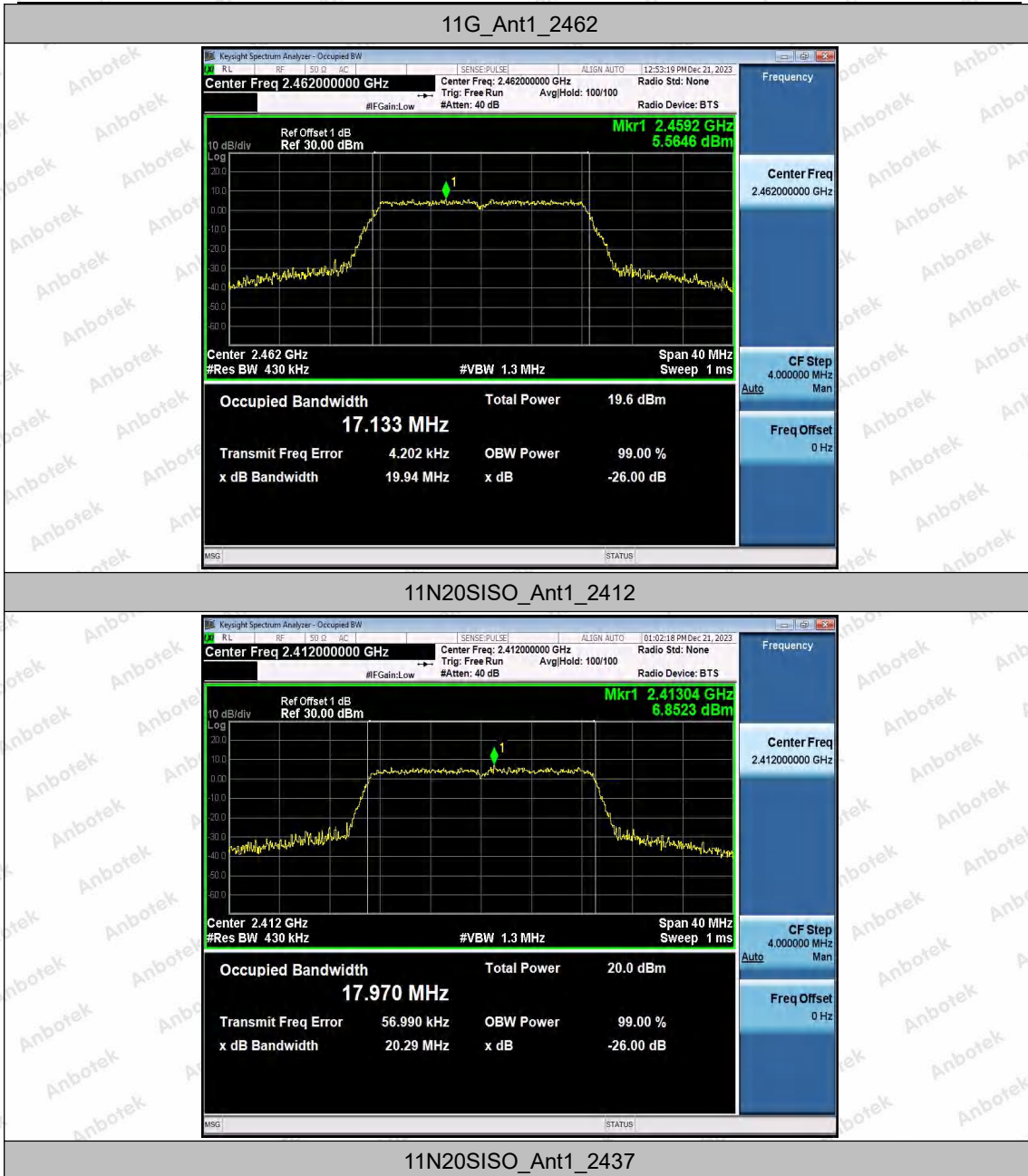


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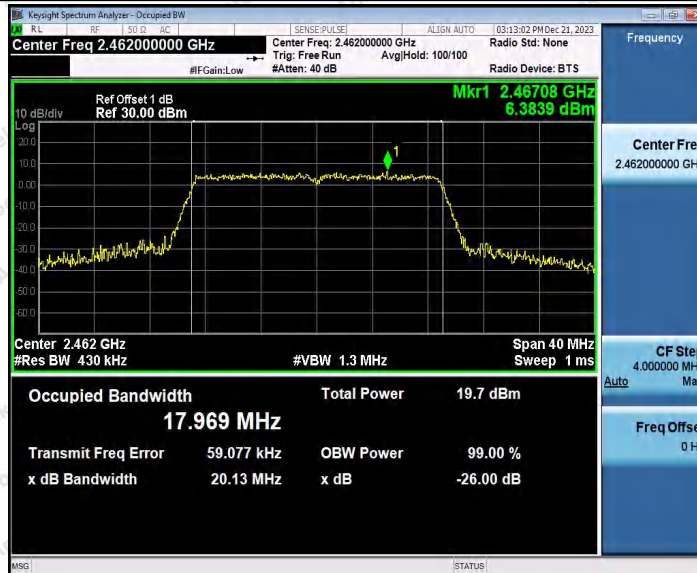


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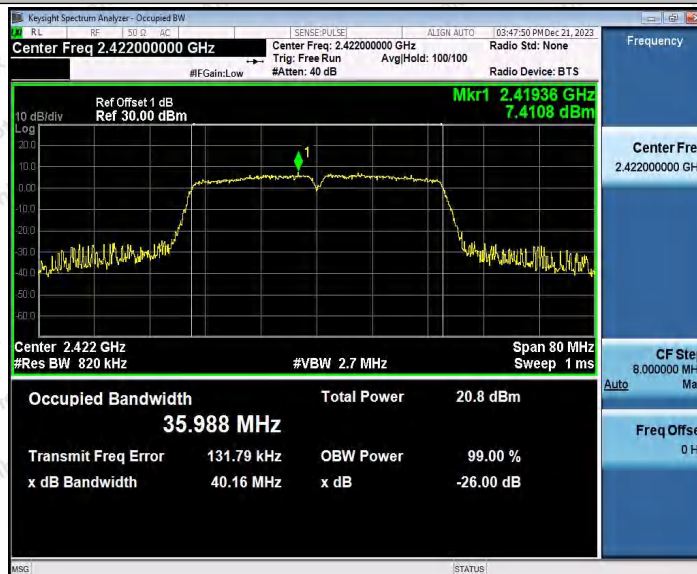




11N20SISO\_Ant1\_2462



11N40SISO\_Ant1\_2422

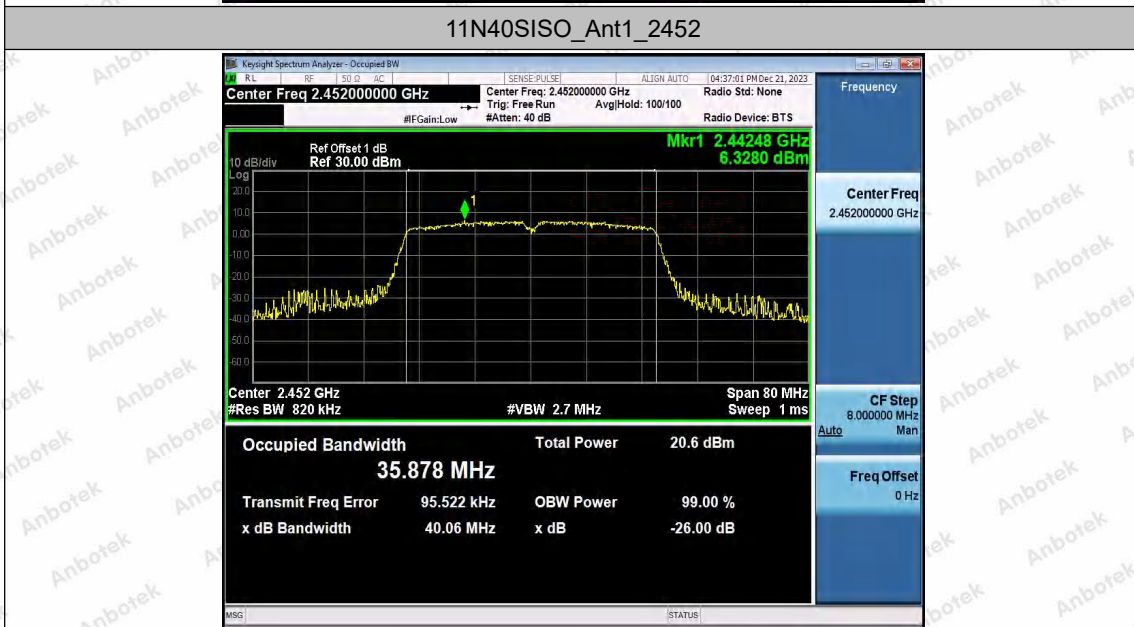
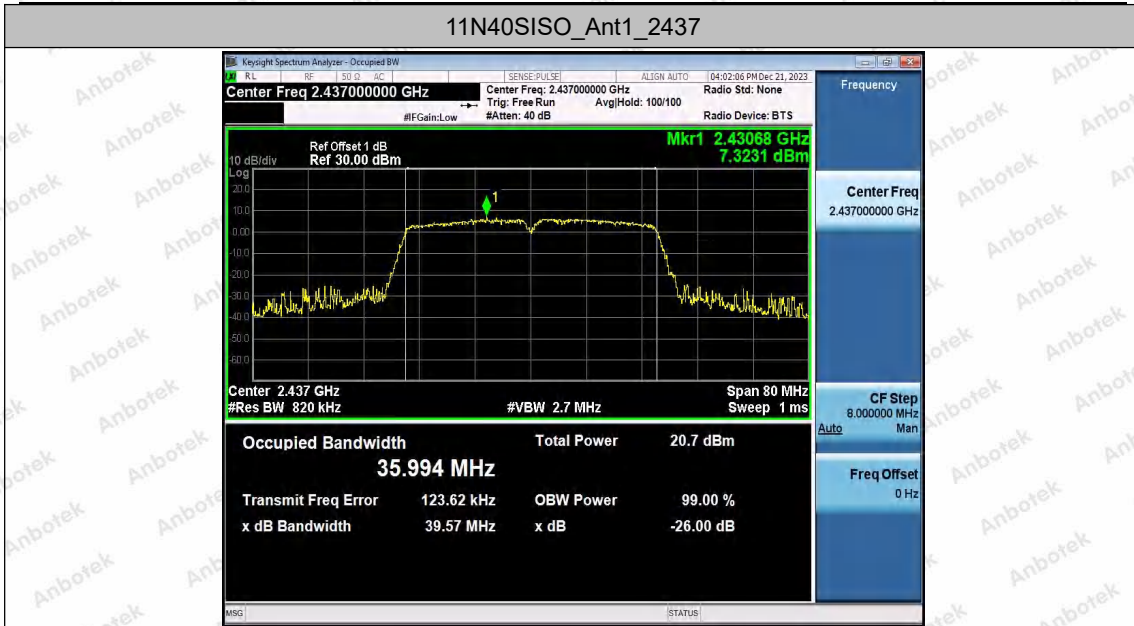


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## Appendix C: Maximum conducted output power

### Test Result

TestMode	Antenna	Frequency[MHz]	Average Output Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	13.67	≤30.00
		2437	13.77	≤30.00
		2462	13.84	≤30.00
11G	Ant1	2412	13.73	≤30.00
		2437	13.72	≤30.00
		2462	13.49	≤30.00
11N20SISO	Ant1	2412	13.80	≤30.00
		2437	13.41	≤30.00
		2462	13.53	≤30.00
11N40SISO	Ant1	2422	13.90	≤30.00
		2437	13.78	≤30.00
		2452	<b>13.97</b>	≤30.00

Note: The Duty Cycle Factor( $10 \cdot \log(1/D)$ ) and cable loss are compensated in the graph.



## Test Graphs

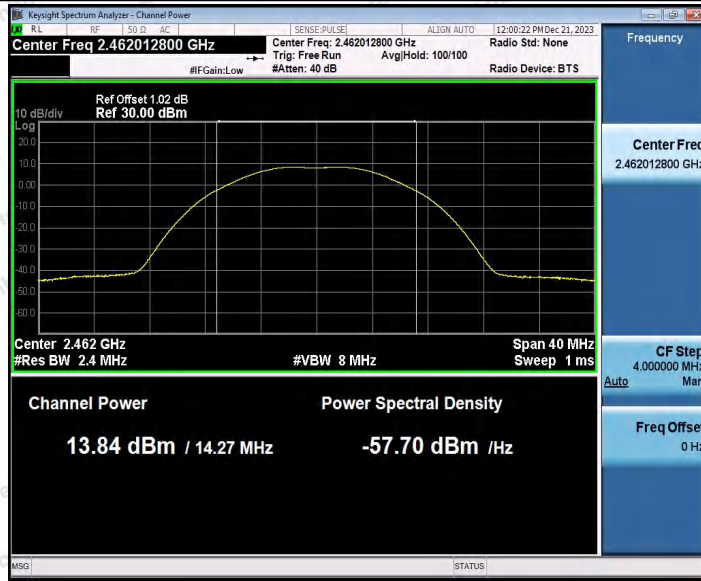


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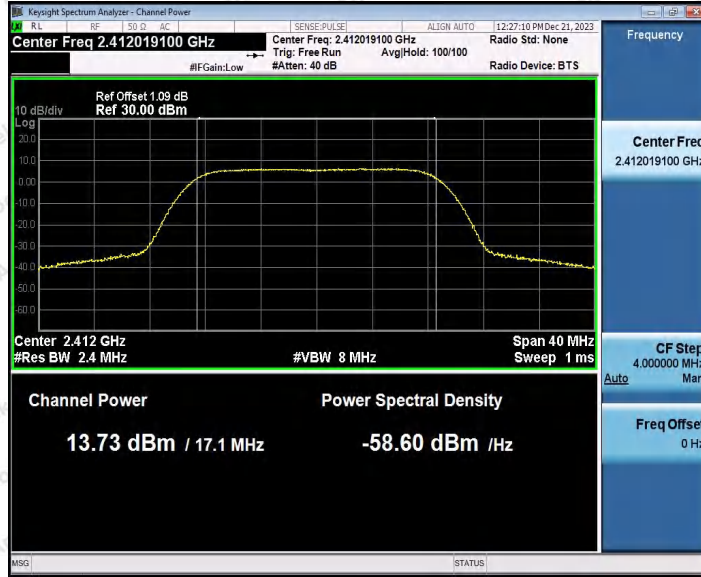
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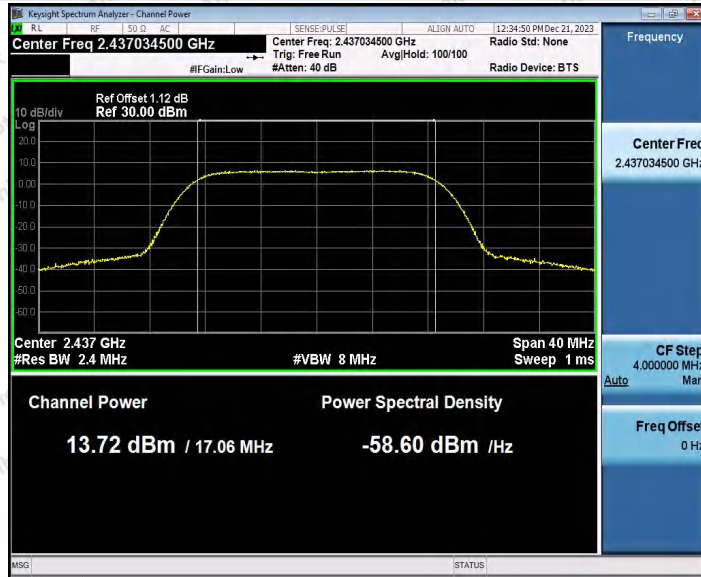




11G\_Ant1\_2412



11G\_Ant1\_2437

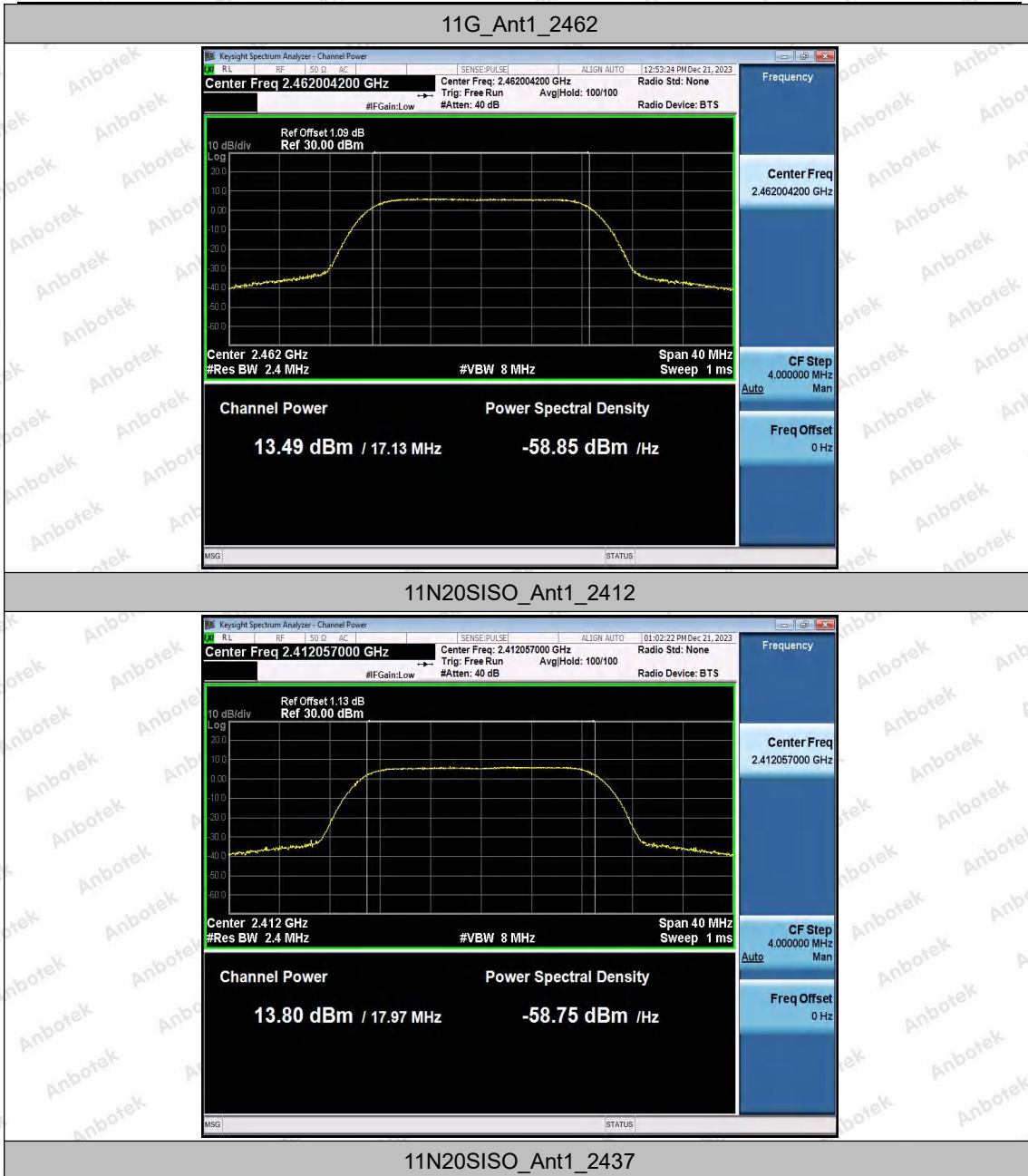


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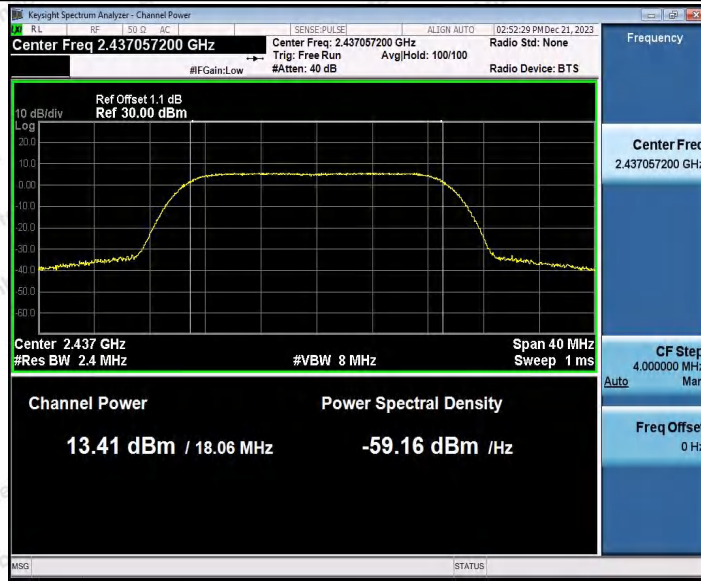
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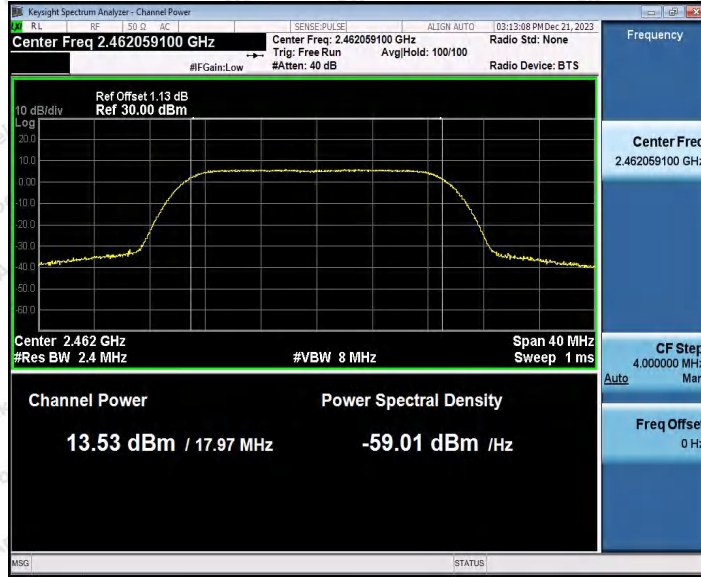
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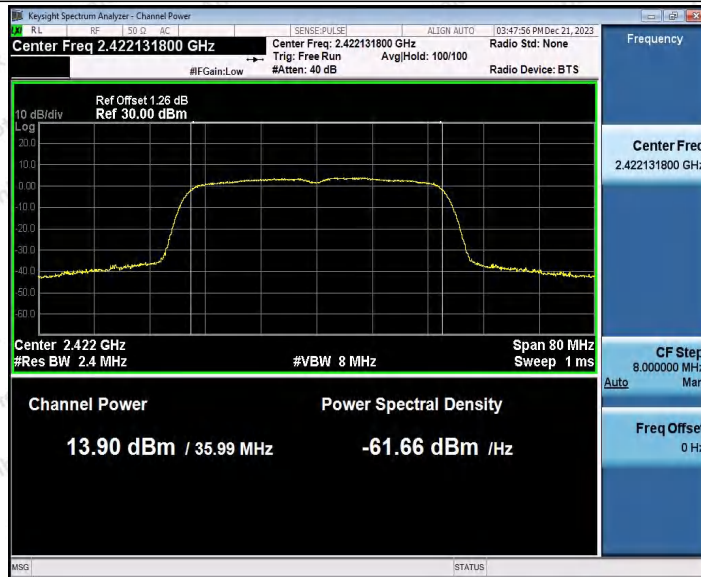




11N20SISO\_Ant1\_2462



11N40SISO\_Ant1\_2422



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### 11N40SISO\_Ant1\_2437



### 11N40SISO\_Ant1\_2452



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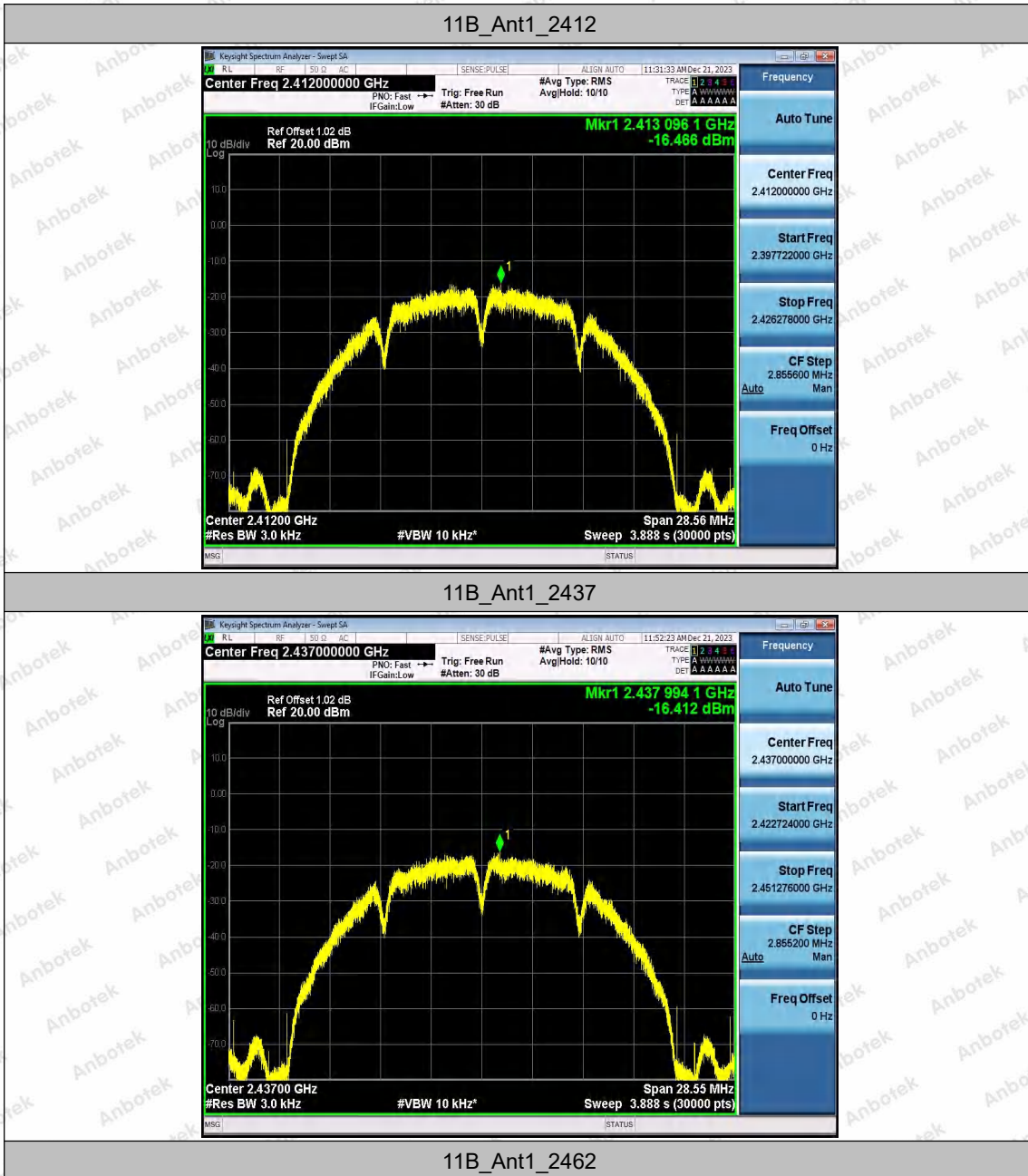
## Appendix D: Maximum power spectral density

### Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-16.47	≤8.00	PASS
		2437	-16.41	≤8.00	PASS
		2462	-16.11	≤8.00	PASS
11G	Ant1	2412	-18.31	≤8.00	PASS
		2437	-18.23	≤8.00	PASS
		2462	-18.87	≤8.00	PASS
11N20SISO	Ant1	2412	-18.85	≤8.00	PASS
		2437	-19.01	≤8.00	PASS
		2462	-18.53	≤8.00	PASS
11N40SISO	Ant1	2422	-20.04	≤8.00	PASS
		2437	-19.53	≤8.00	PASS
		2452	-20.19	≤8.00	PASS



## Test Graphs



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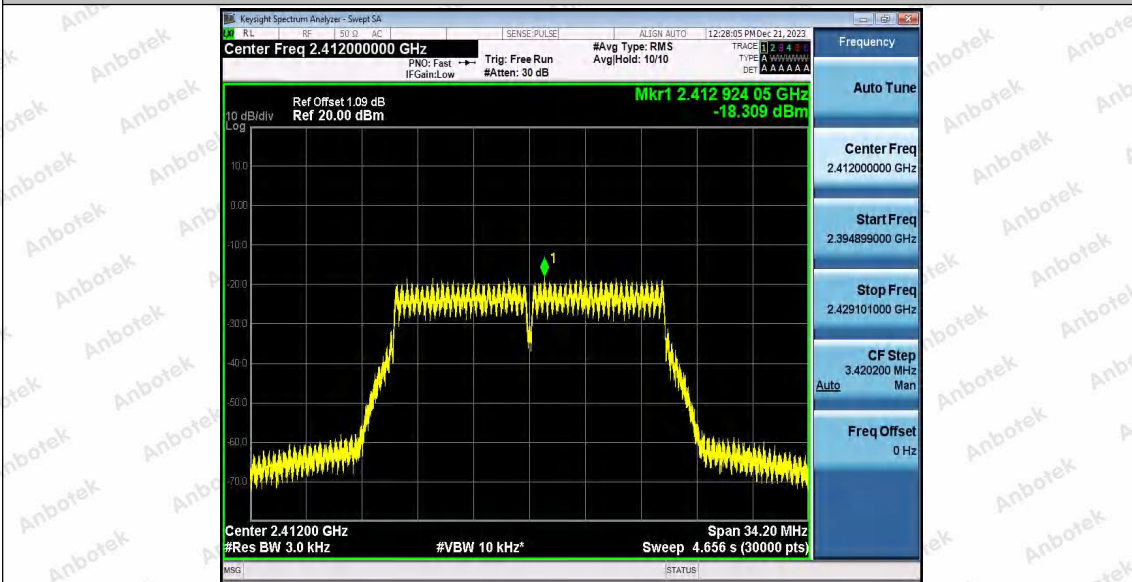
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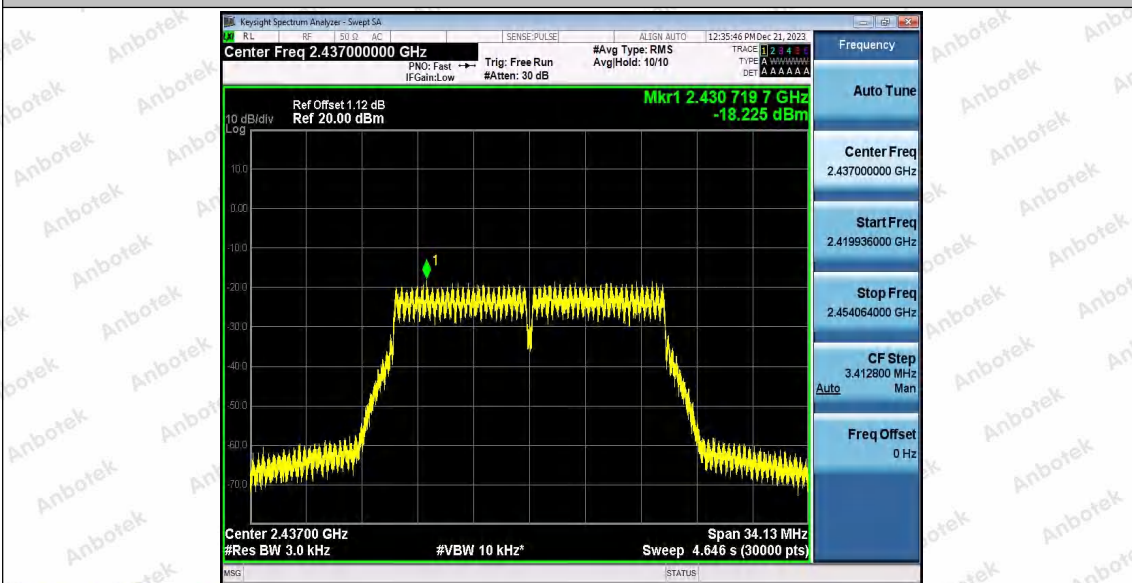




11G\_Ant1\_2412



11G\_Ant1\_2437

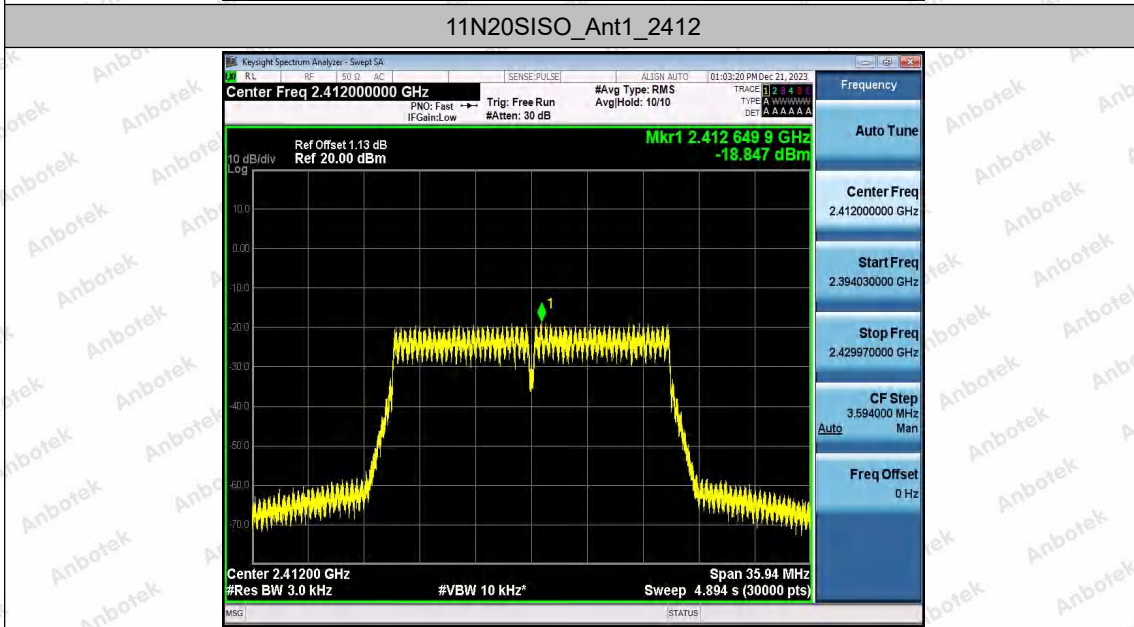
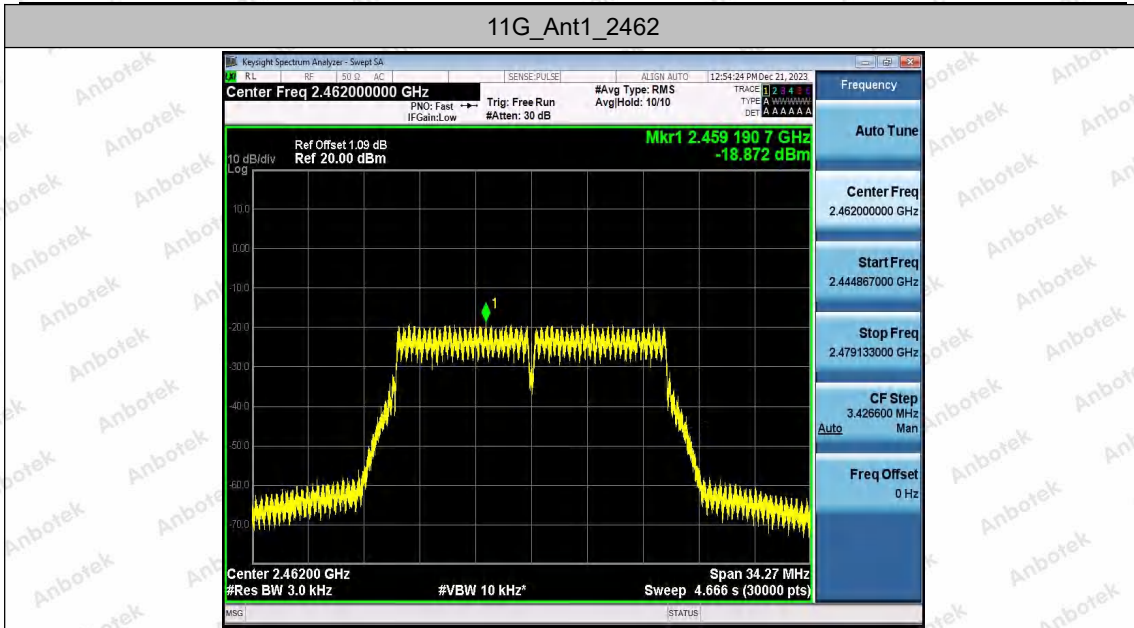


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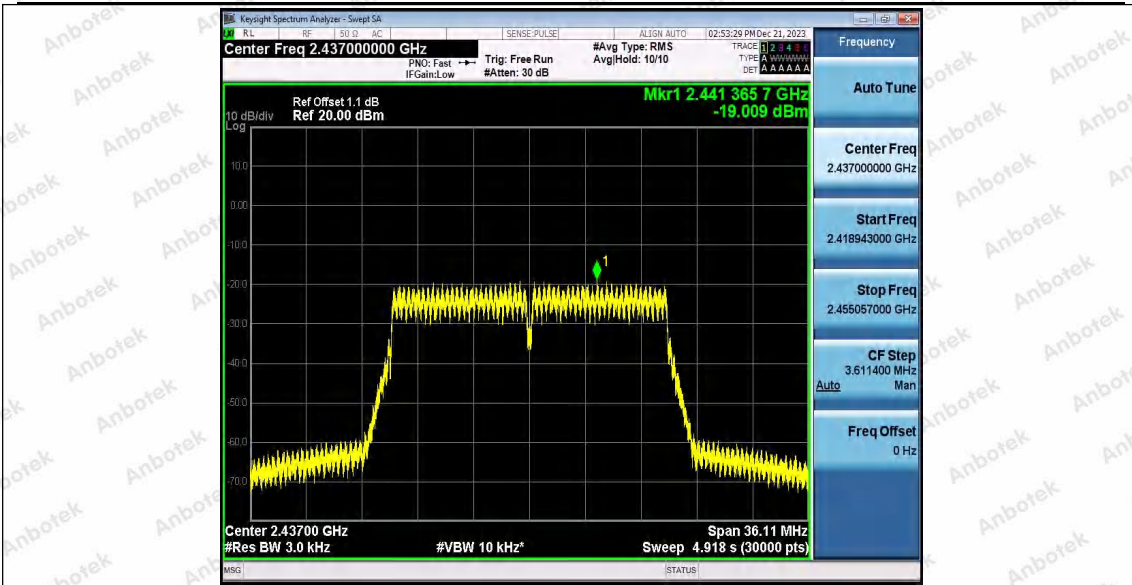
**11N20SISO\_Ant1\_2437**

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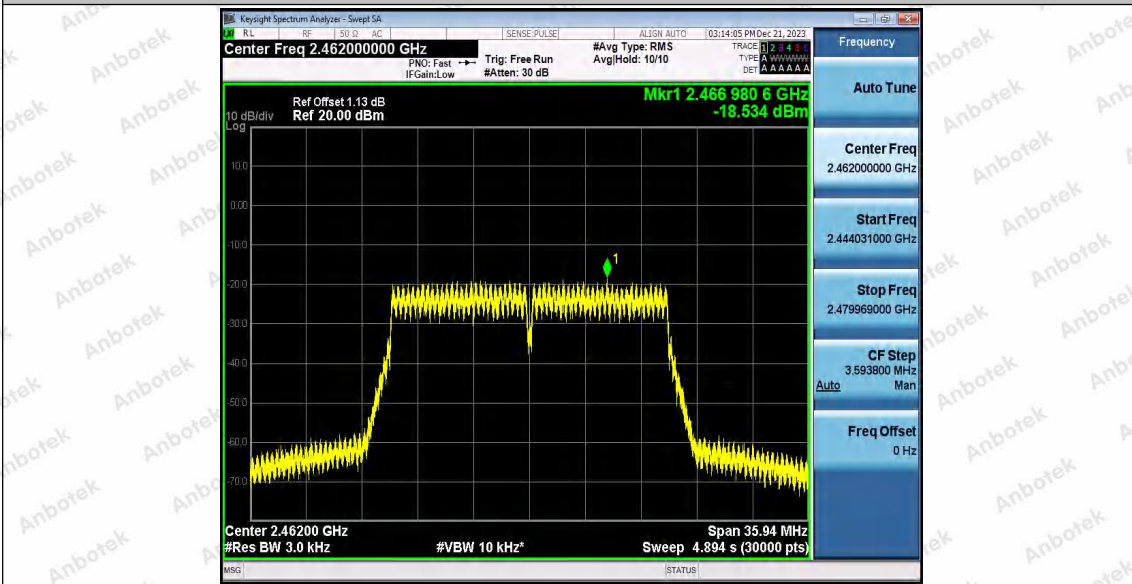
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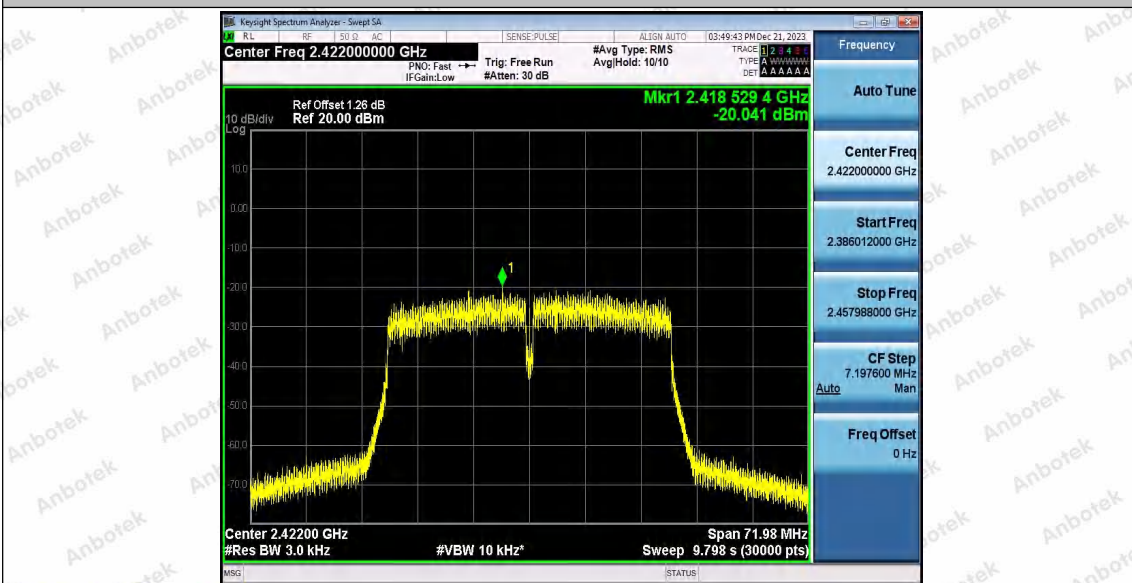




11N20SISO\_Ant1\_2462



11N40SISO\_Ant1\_2422



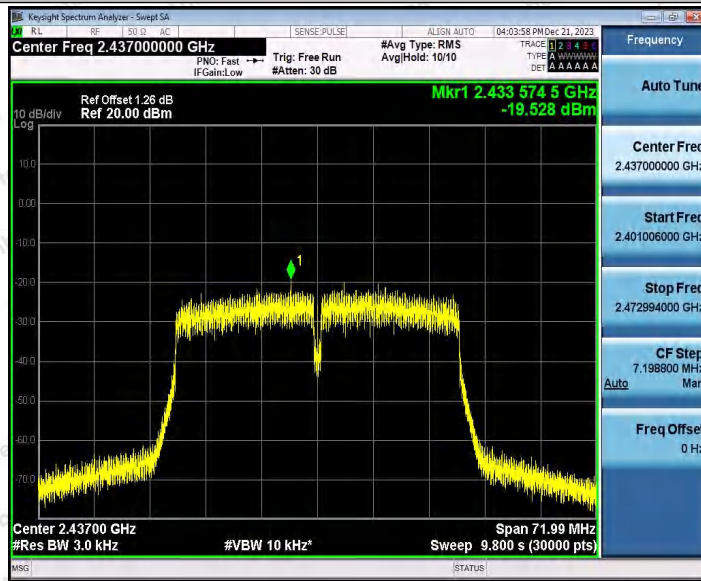
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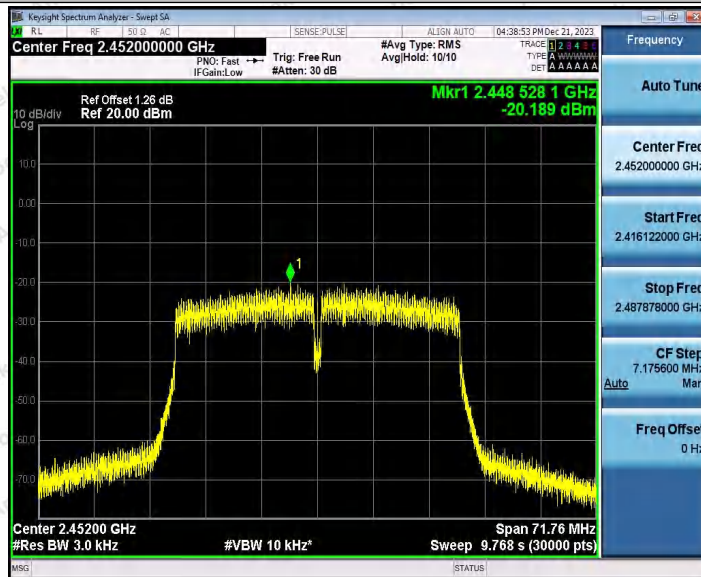
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11N40SISO\_Ant1\_2437



11N40SISO\_Ant1\_2452



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## Appendix E: Band edge measurements

### Test Result

TestMode	Antenna	ChName	Frequency [MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.45	-47.05	≤-25.55	PASS
		High	2462	4.54	-53.02	≤-25.46	PASS
11G	Ant1	Low	2412	3.02	-35.71	≤-26.98	PASS
		High	2462	2.73	-48.74	≤-27.27	PASS
11N20SISO	Ant1	Low	2412	2.31	-35.19	≤-27.7	PASS
		High	2462	2.52	-47.36	≤-27.49	PASS
11N40SISO	Ant1	Low	2422	-0.08	-34.97	≤-30.08	PASS
		High	2452	0.35	-41.6	≤-29.65	PASS

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## Test Graphs



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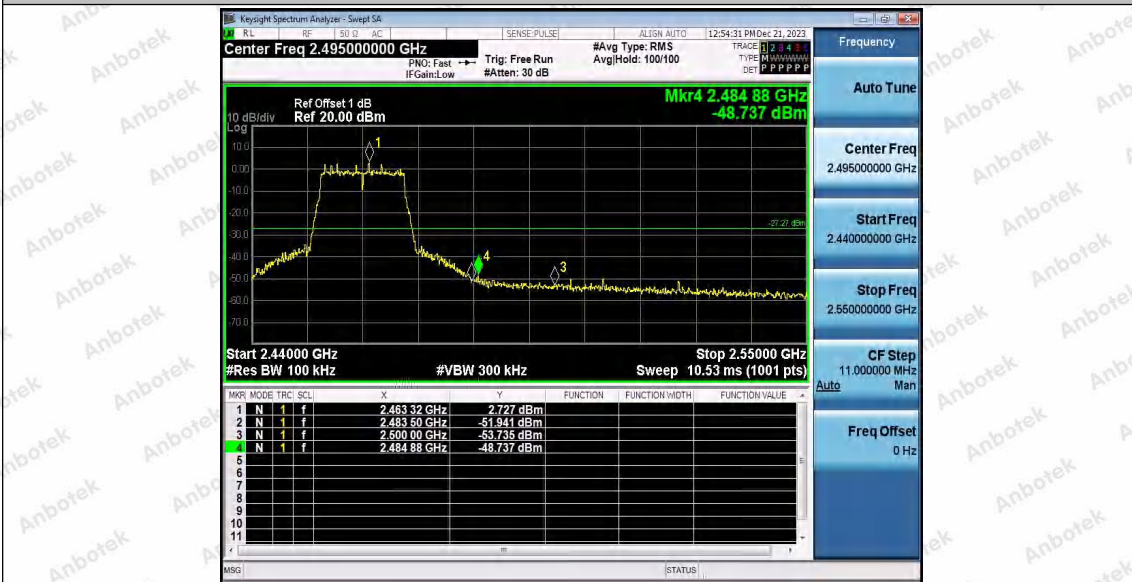
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11G\_Ant1\_High\_2462



11N20SISO\_Ant1\_Low\_2412



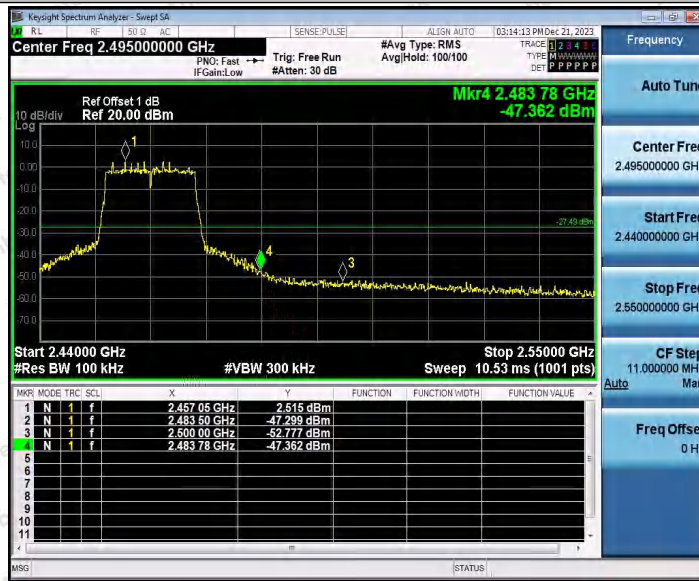
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### 11N20SISO\_Ant1\_High\_2462



### 11N40SISO\_Ant1\_Low\_2422



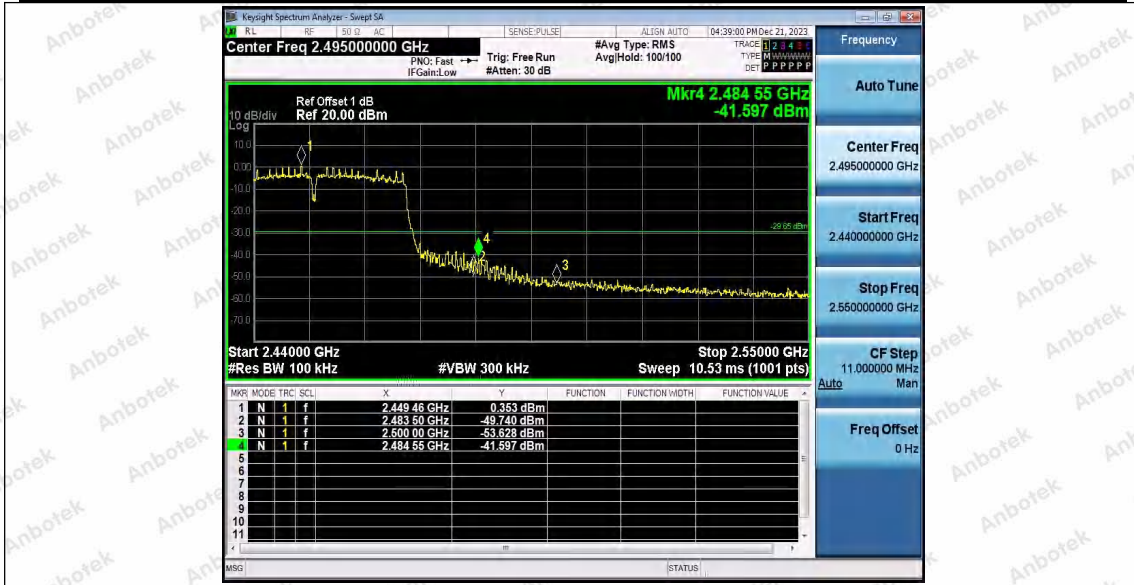
### 11N40SISO\_Ant1\_High\_2452

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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	3.07	3.07	---	PASS
			30~1000	3.07	-69.33	≤-26.93	PASS
			1000~26500	3.07	-53.44	≤-26.93	PASS
		2437	Reference	3.08	3.08	---	PASS
			30~1000	3.08	-69.17	≤-26.92	PASS
			1000~26500	3.08	-53.59	≤-26.92	PASS
		2462	Reference	3.48	3.48	---	PASS
			30~1000	3.48	-69.57	≤-26.52	PASS
			1000~26500	3.48	-53.9	≤-26.52	PASS
11G	Ant1	2412	Reference	-0.89	-0.89	---	PASS
			30~1000	-0.89	-68.67	≤-30.89	PASS
			1000~26500	-0.89	-54.1	≤-30.89	PASS
		2437	Reference	-0.69	-0.69	---	PASS
			30~1000	-0.69	-69.32	≤-30.69	PASS
			1000~26500	-0.69	-52.84	≤-30.69	PASS
		2462	Reference	0.50	0.50	---	PASS
			30~1000	0.50	-69.01	≤-29.5	PASS
			1000~26500	0.50	-53.39	≤-29.5	PASS
11N20SISO	Ant1	2412	Reference	1.75	1.75	---	PASS
			30~1000	1.75	-68.07	≤-28.25	PASS
			1000~26500	1.75	-53.61	≤-28.25	PASS
		2437	Reference	1.21	1.21	---	PASS
			30~1000	1.21	-69.2	≤-28.79	PASS
			1000~26500	1.21	-51.72	≤-28.79	PASS
		2462	Reference	1.71	1.71	---	PASS
			30~1000	1.71	-69.38	≤-28.29	PASS
			1000~26500	1.71	-53.41	≤-28.29	PASS
11N40SISO	Ant1	2422	Reference	-0.17	-0.17	---	PASS
			30~1000	-0.17	-68.8	≤-30.17	PASS
			1000~26500	-0.17	-53.13	≤-30.17	PASS
		2437	Reference	-0.14	-0.14	---	PASS
			30~1000	-0.14	-69.27	≤-30.14	PASS
			1000~26500	-0.14	-53.62	≤-30.14	PASS
		2452	Reference	-2.16	-2.16	---	PASS
			30~1000	-2.16	-68.85	≤-32.16	PASS
			1000~26500	-2.16	-52.61	≤-32.16	PASS

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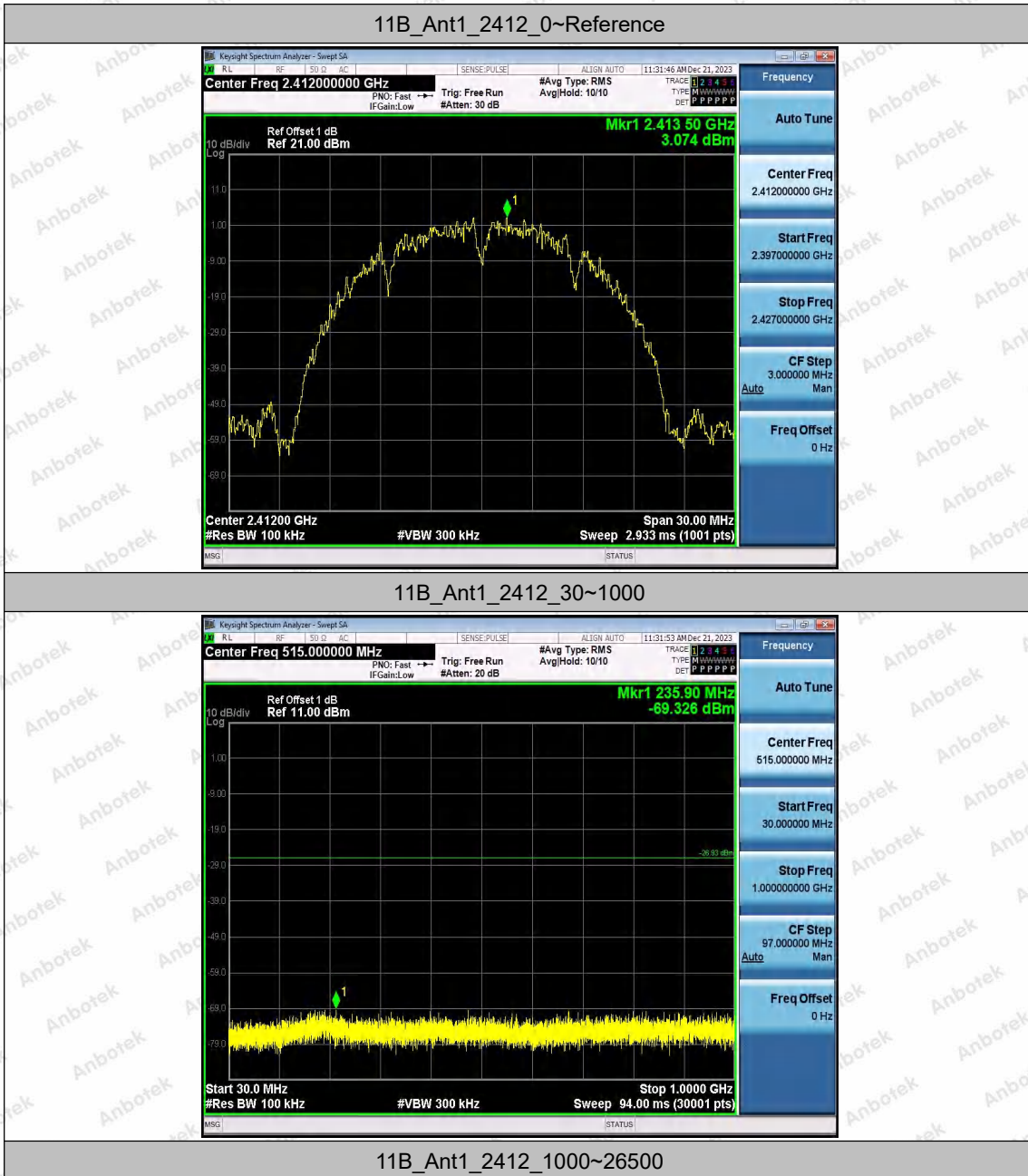
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## Test Graphs

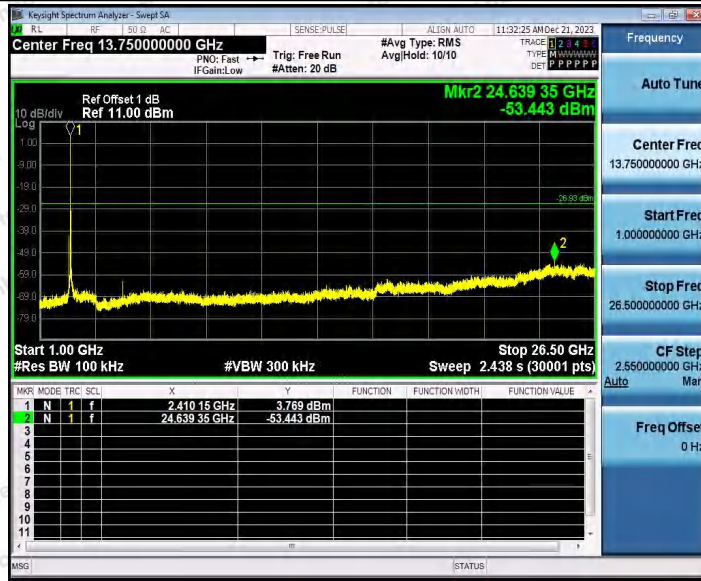


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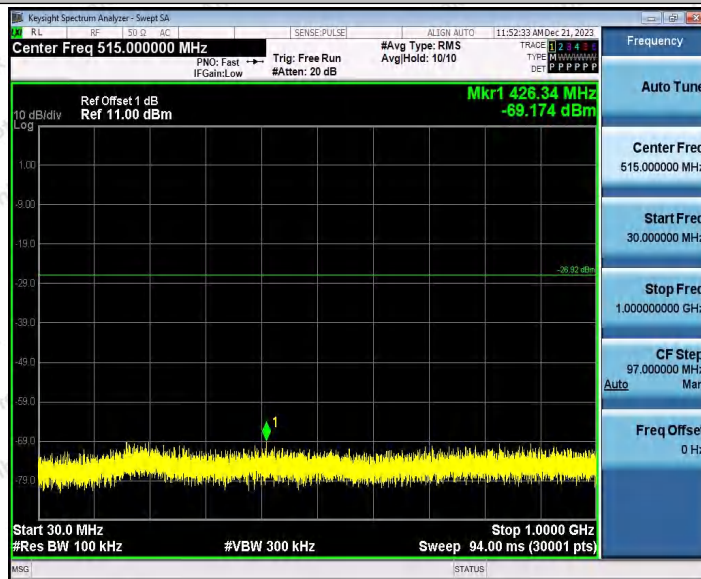




11B\_Ant1\_2437\_0~Reference



11B\_Ant1\_2437\_30~1000



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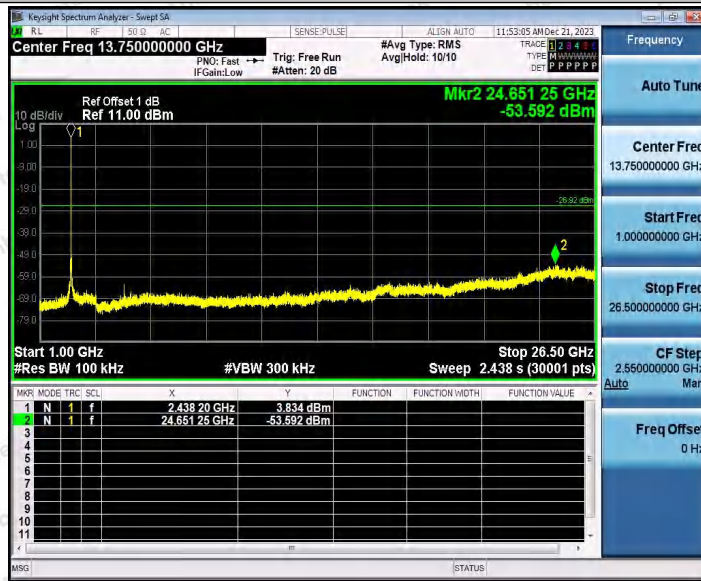
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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### 11B\_Ant1\_2437\_1000~26500



### 11B\_Ant1\_2462\_0~Reference



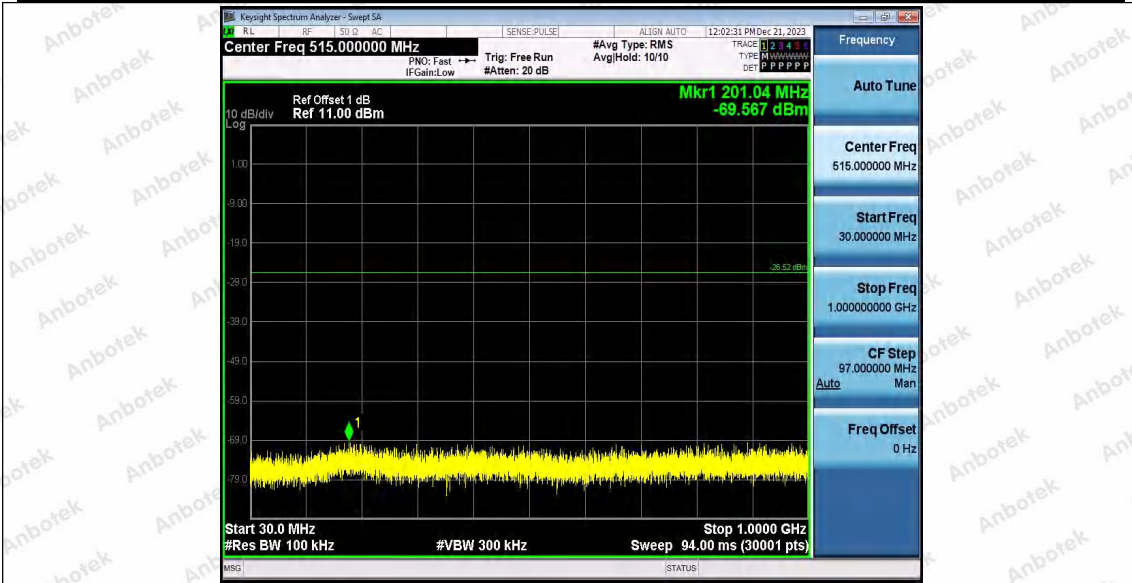
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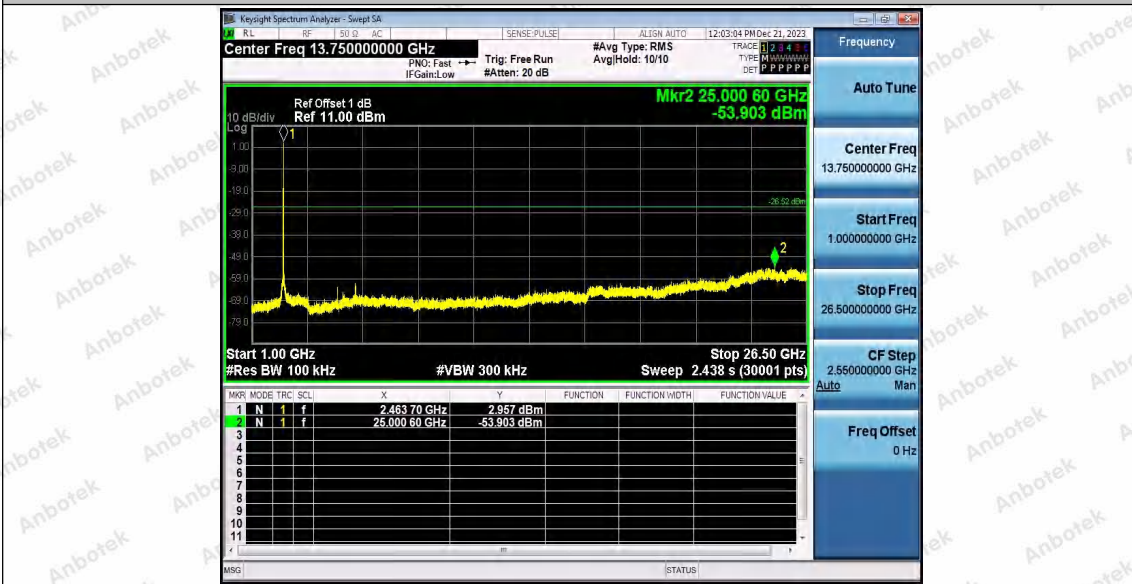
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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11B\_Ant1\_2462\_1000~26500



11G\_Ant1\_2412\_0~Reference



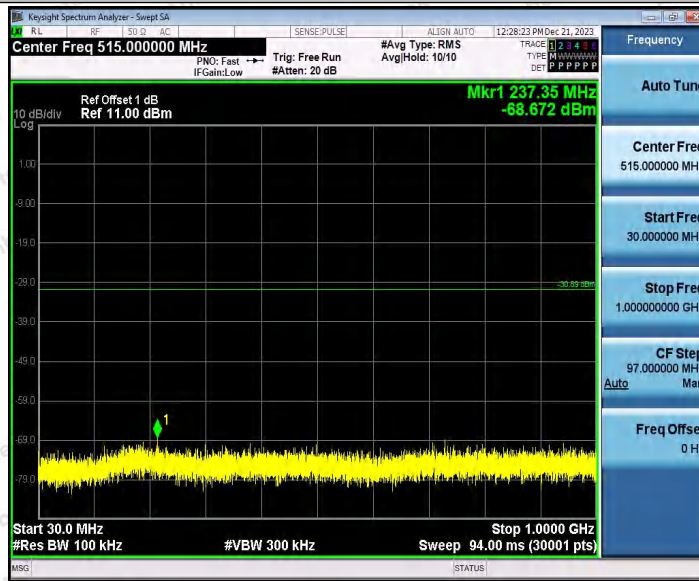
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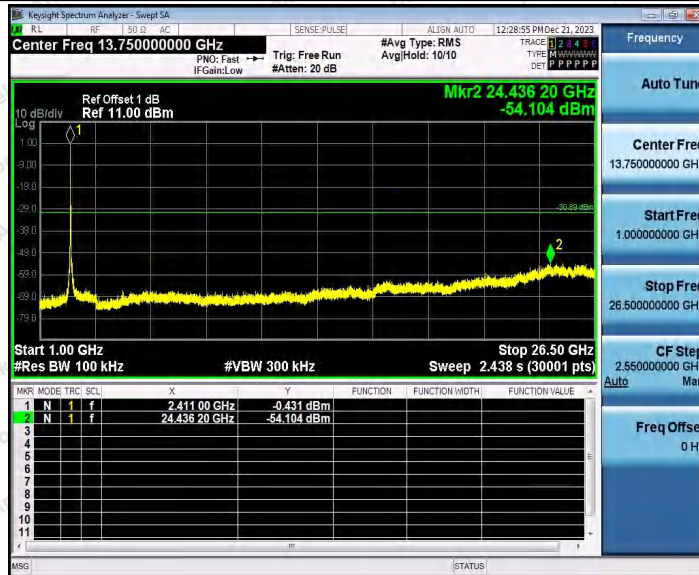
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### 11G\_Ant1\_2412\_30~1000



### 11G\_Ant1\_2412\_1000~26500



### 11G\_Ant1\_2437\_0~Reference

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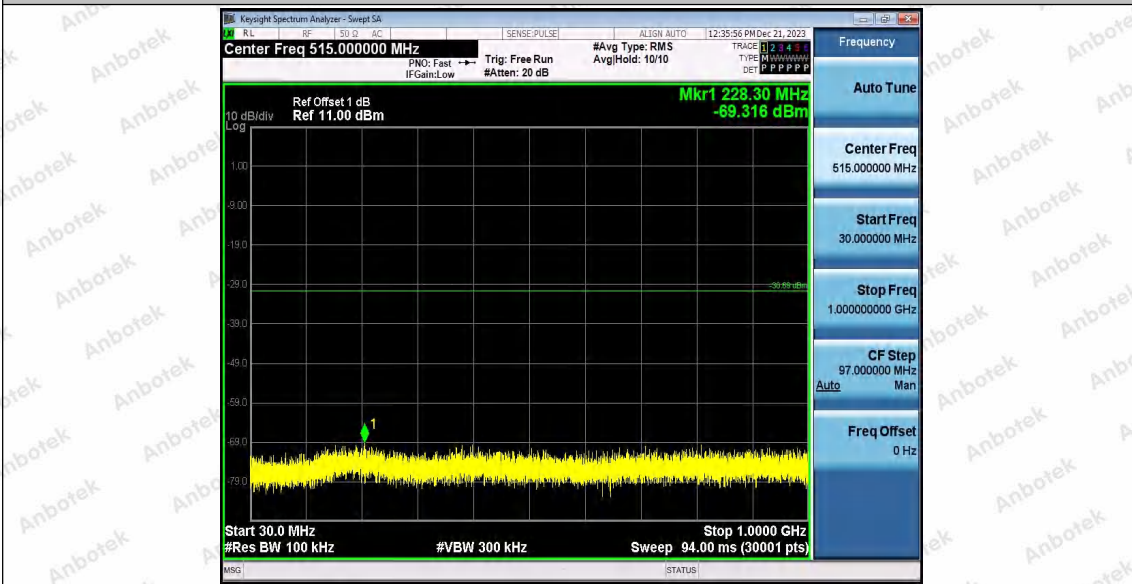
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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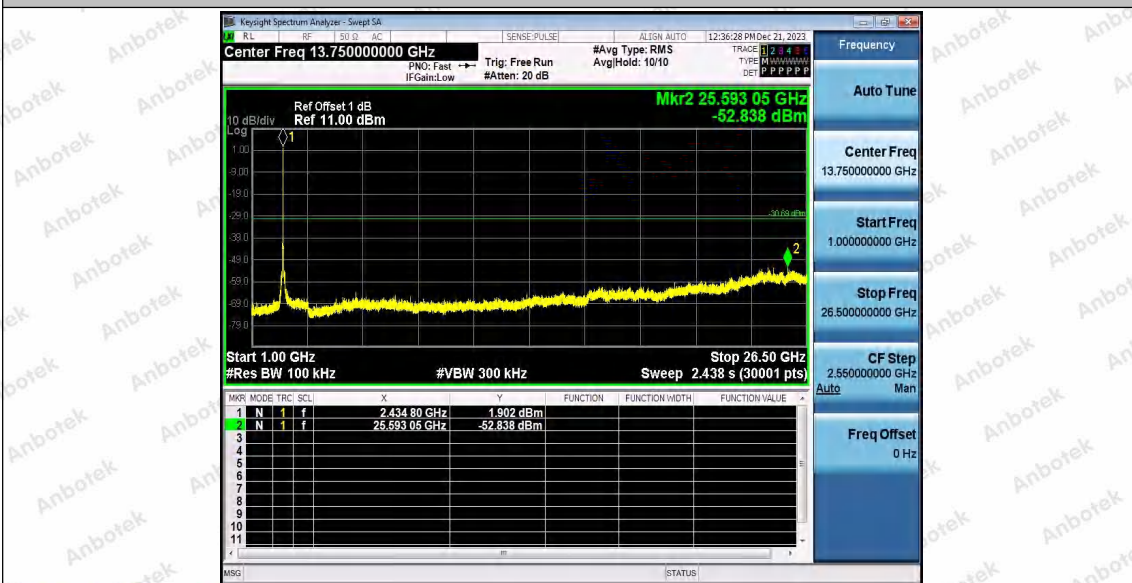




11G\_Ant1\_2437\_30~1000



11G\_Ant1\_2437\_1000~26500



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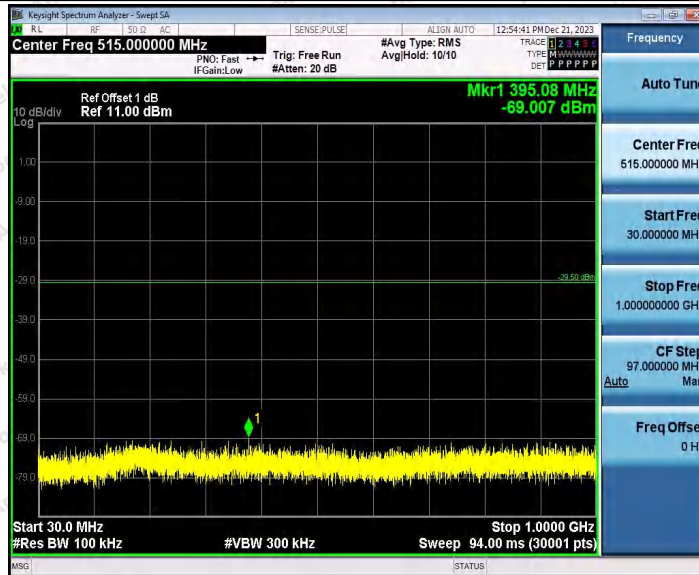
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### 11G\_Ant1\_2462\_0~Reference



### 11G\_Ant1\_2462\_30~1000



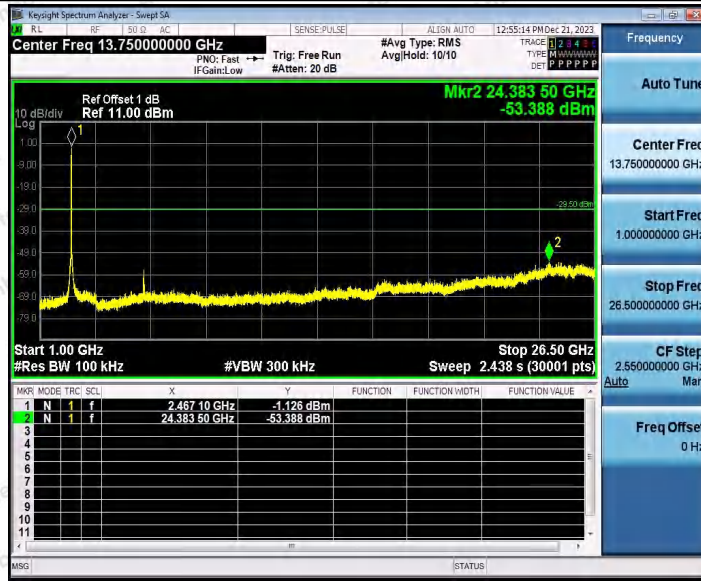
### 11G\_Ant1\_2462\_1000~26500

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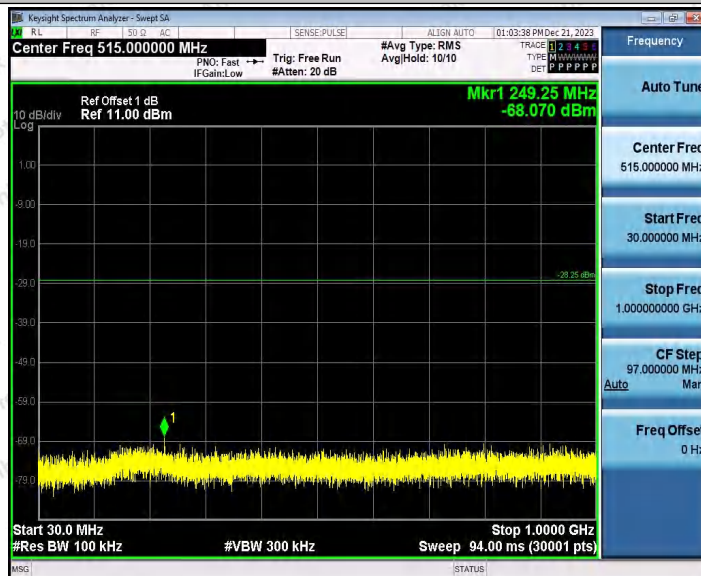




11N20SISO\_Ant1\_2412\_0~Reference



11N20SISO\_Ant1\_2412\_30~1000



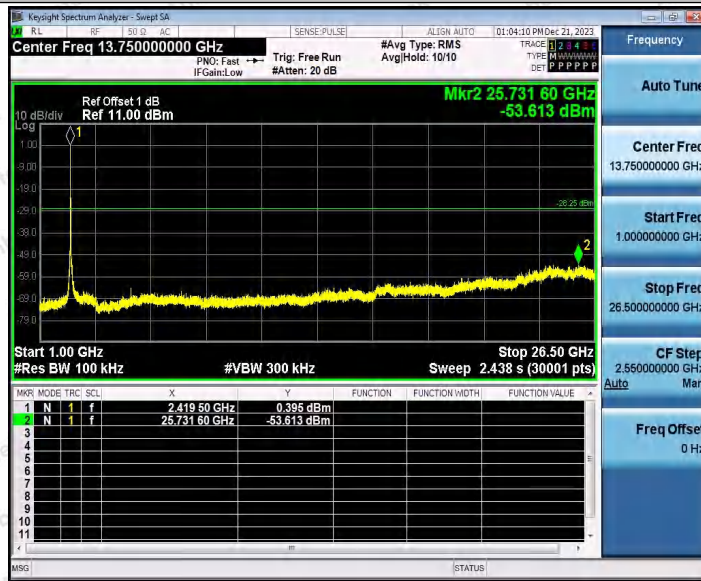
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### 11N20SISO\_Ant1\_2412\_1000~26500



### 11N20SISO\_Ant1\_2437\_0~Reference



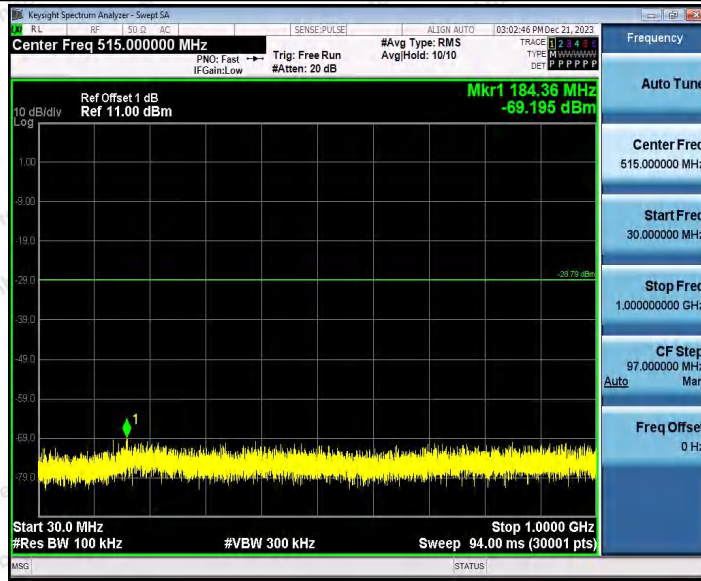
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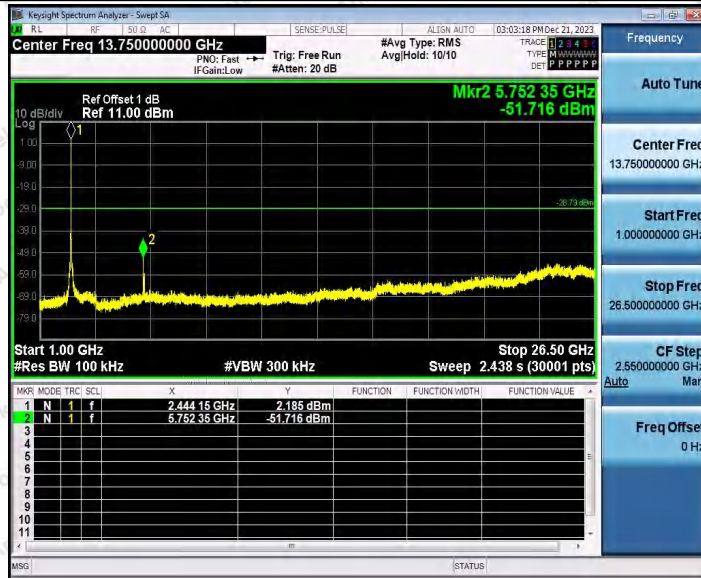
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11N20SISO\_Ant1\_2437\_1000~26500



11N20SISO\_Ant1\_2462\_0~Reference



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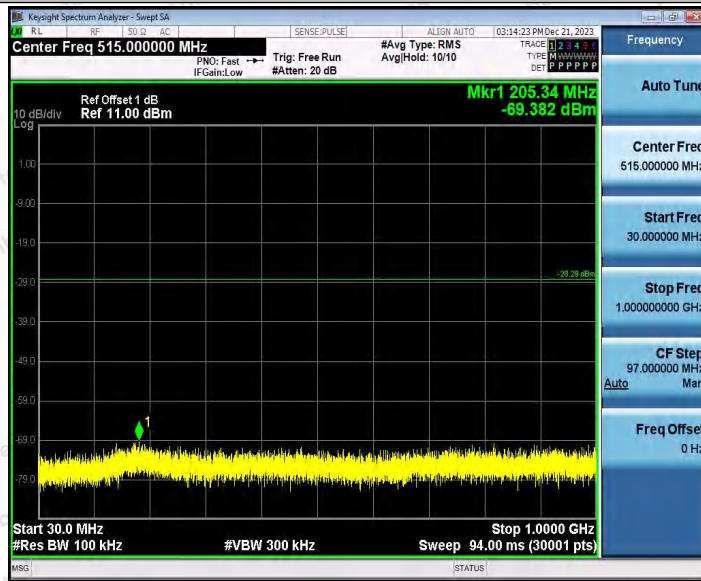
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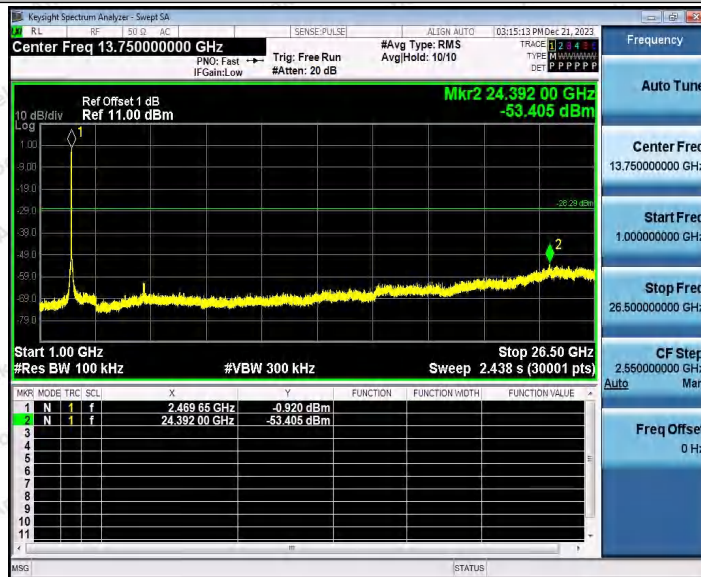




11N20SISO\_Ant1\_2462\_30~1000



11N20SISO\_Ant1\_2462\_1000~26500



11N40SISO\_Ant1\_2422\_0~Reference

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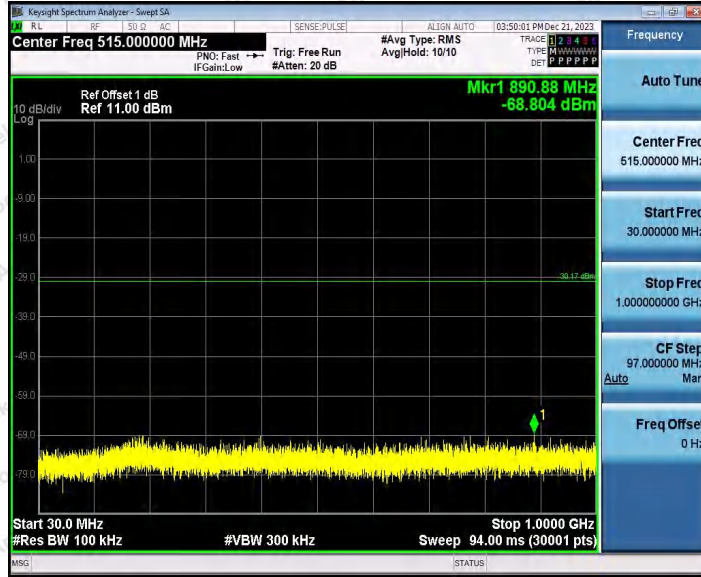
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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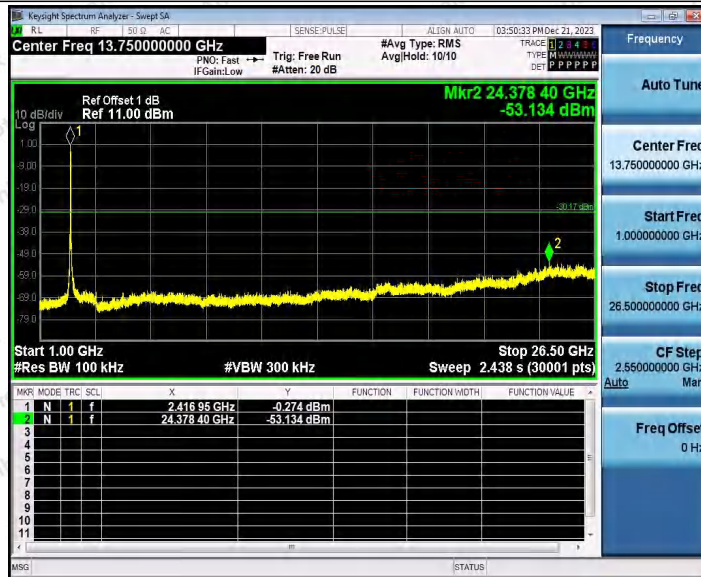




11N40SISO\_Ant1\_2422\_30~1000



11N40SISO\_Ant1\_2422\_1000~26500



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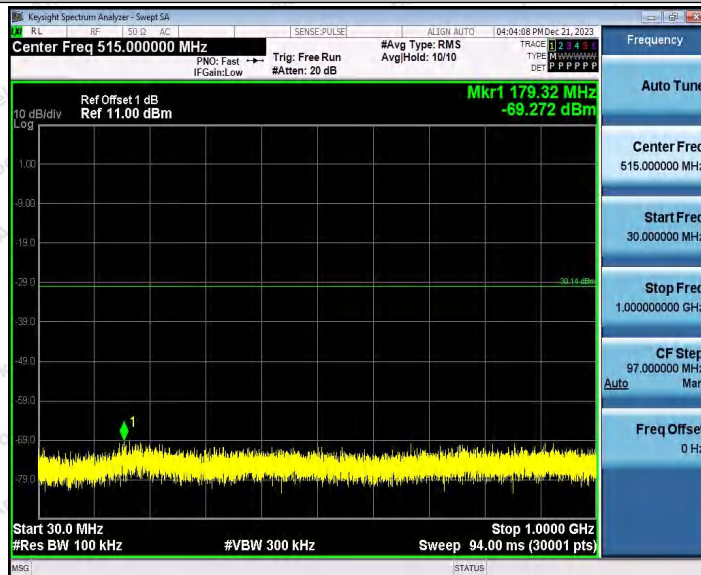
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### 11N40SISO\_Ant1\_2437\_0~Reference



### 11N40SISO\_Ant1\_2437\_30~1000



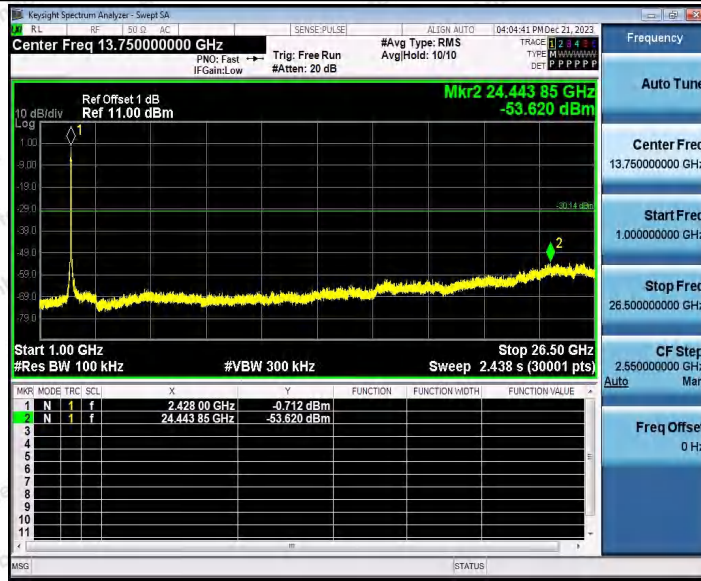
### 11N40SISO\_Ant1\_2437\_1000~26500

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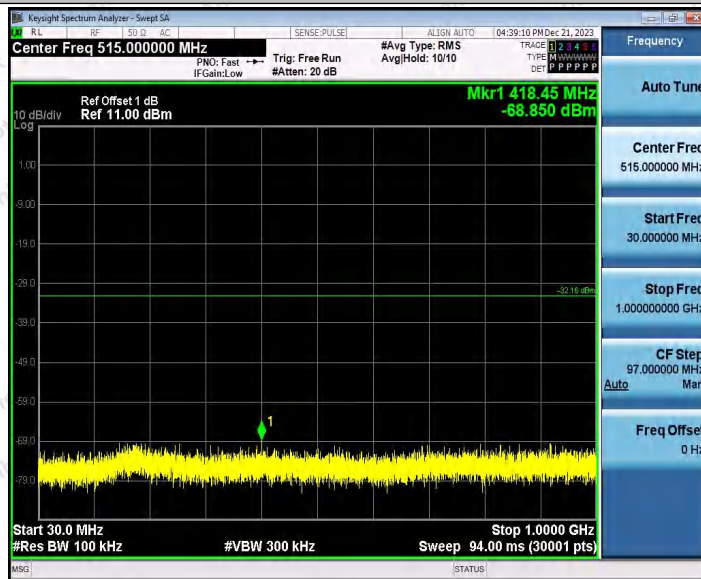




11N40SISO\_Ant1\_2452\_0~Reference



11N40SISO\_Ant1\_2452\_30~1000

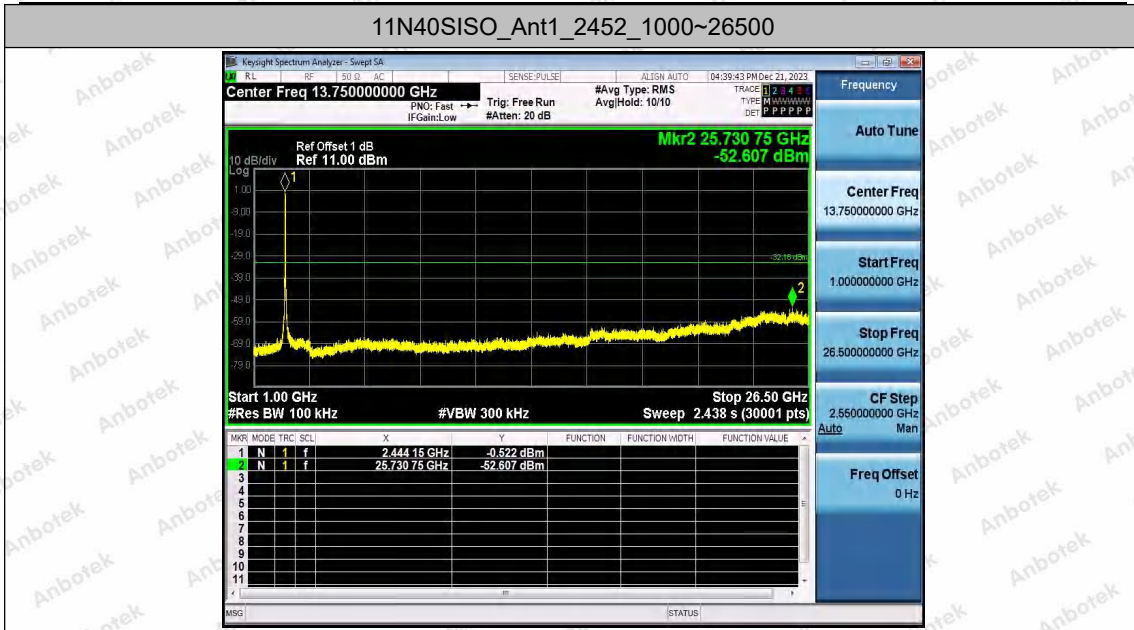


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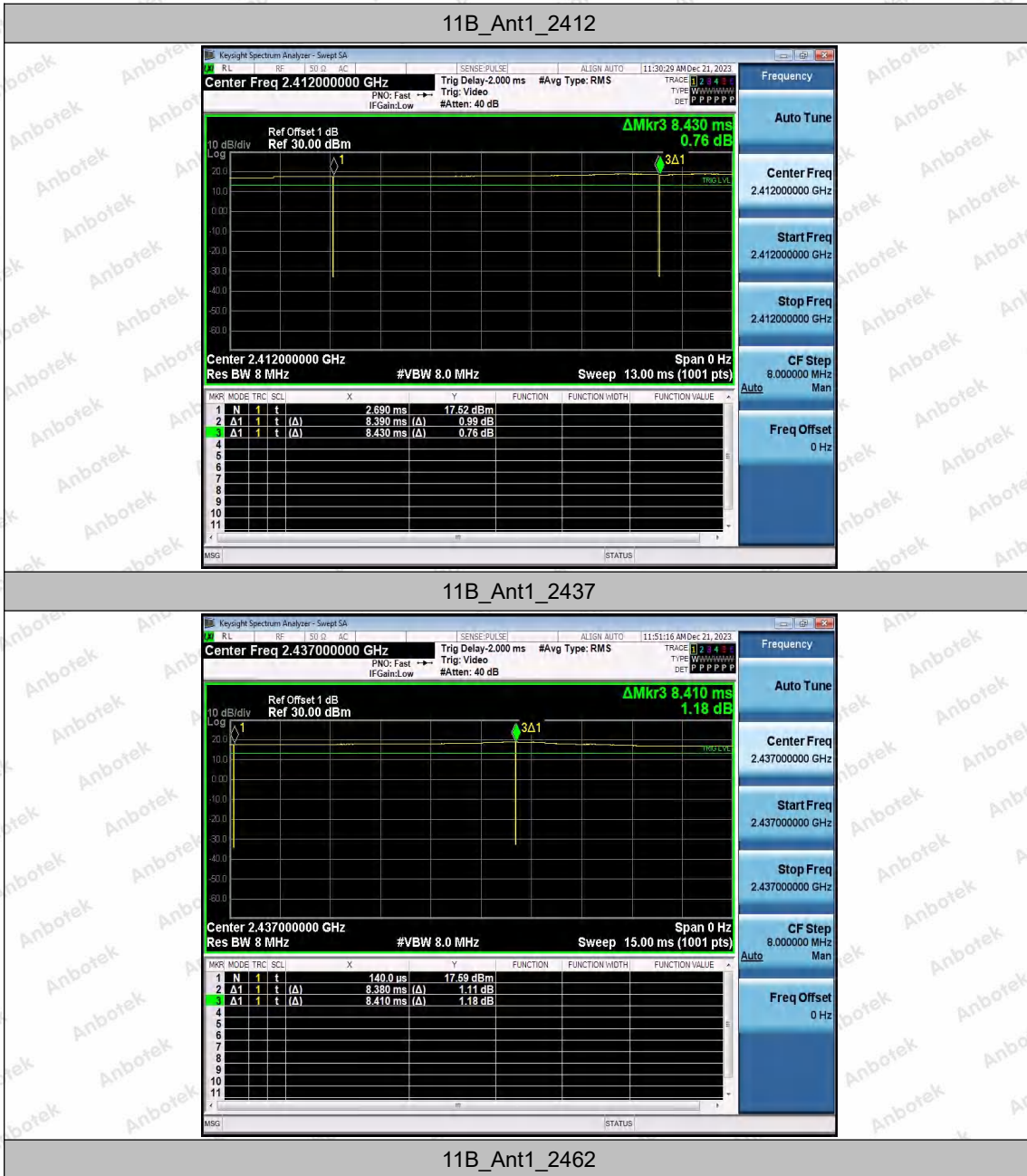
## Appendix G: Duty Cycle

### Test Result

TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.39	8.43	99.53	0.02
		2437	8.38	8.41	99.64	0.02
		2462	8.38	8.41	99.64	0.02
11G	Ant1	2412	1.40	1.43	97.90	0.09
		2437	1.39	1.43	97.20	0.12
		2462	1.40	1.43	97.90	0.09
11N20SISO	Ant1	2412	1.30	1.34	97.01	0.13
		2437	1.30	1.33	97.74	0.10
		2462	1.30	1.34	97.01	0.13
11N40SISO	Ant1	2422	0.65	0.69	94.20	0.26
		2437	0.64	0.68	94.12	0.26
		2452	0.65	0.69	94.20	0.26



## Test Graphs

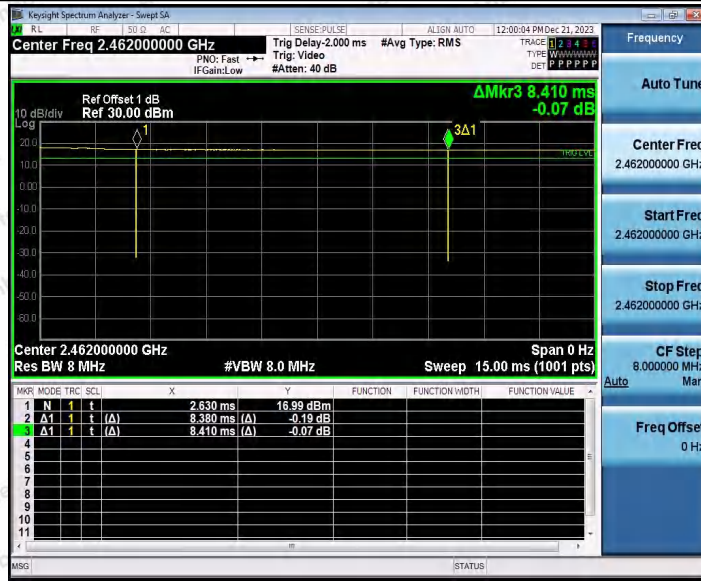


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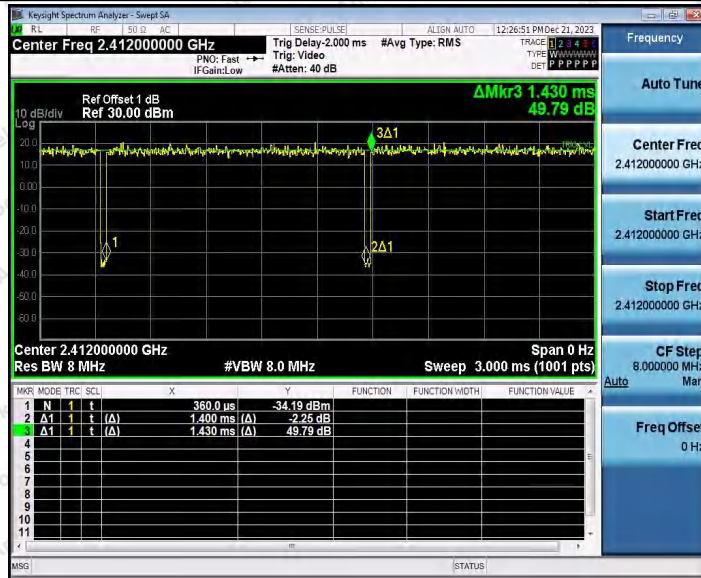
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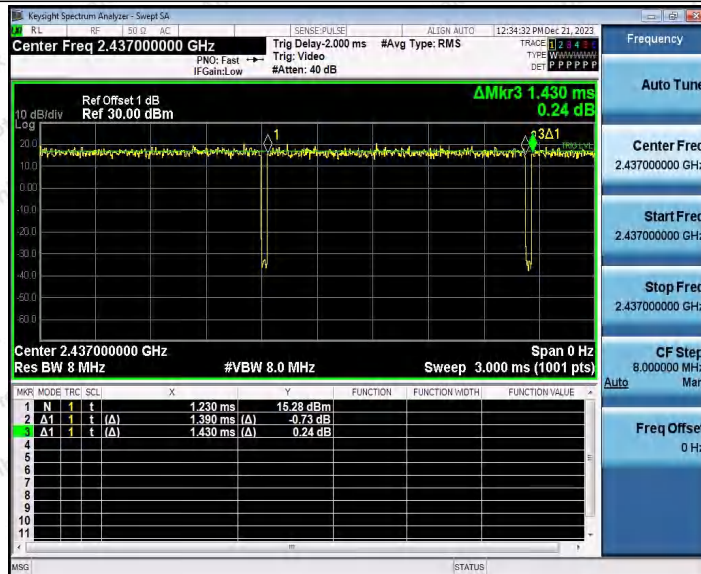




11G\_Ant1\_2412



11G\_Ant1\_2437



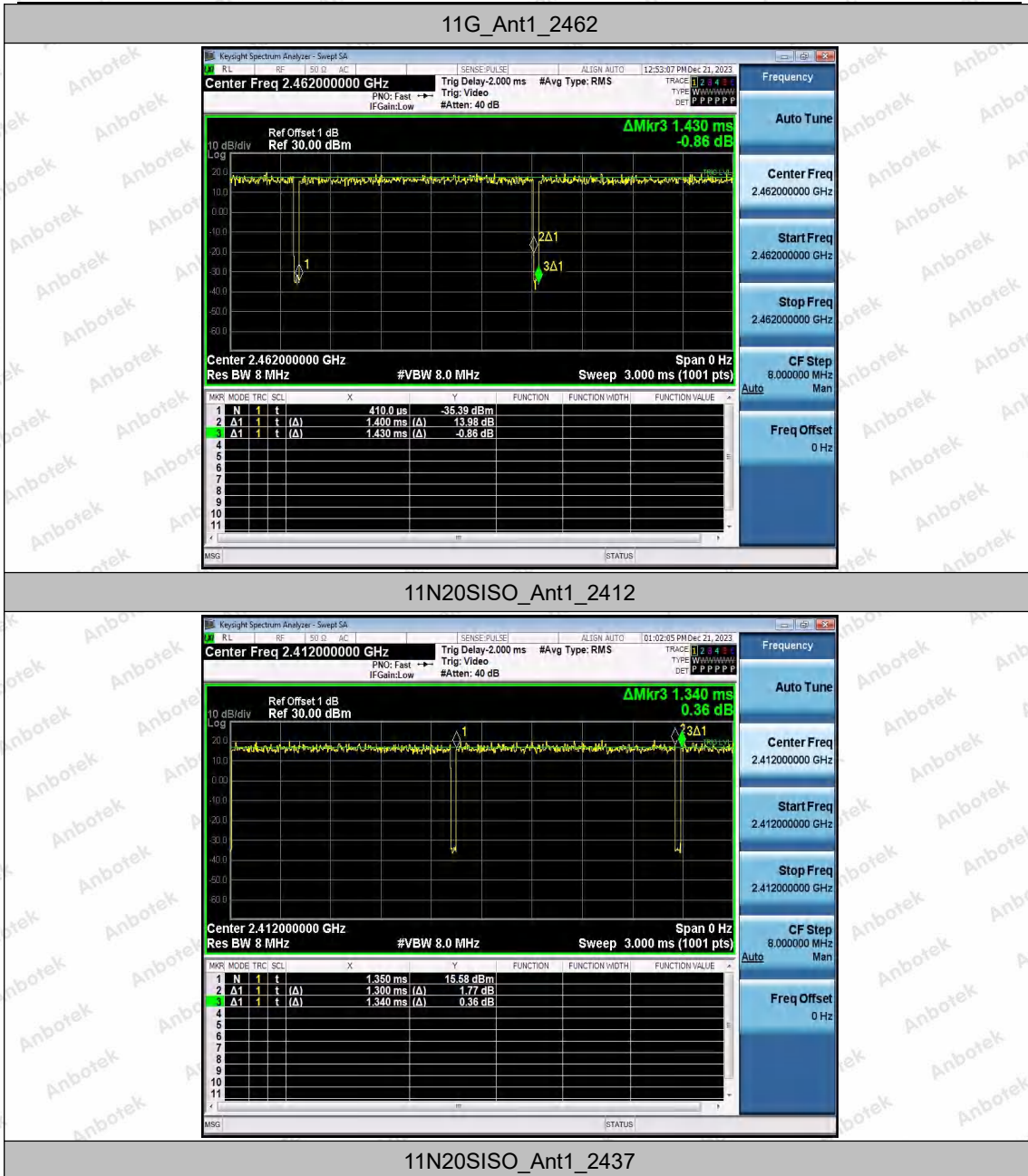
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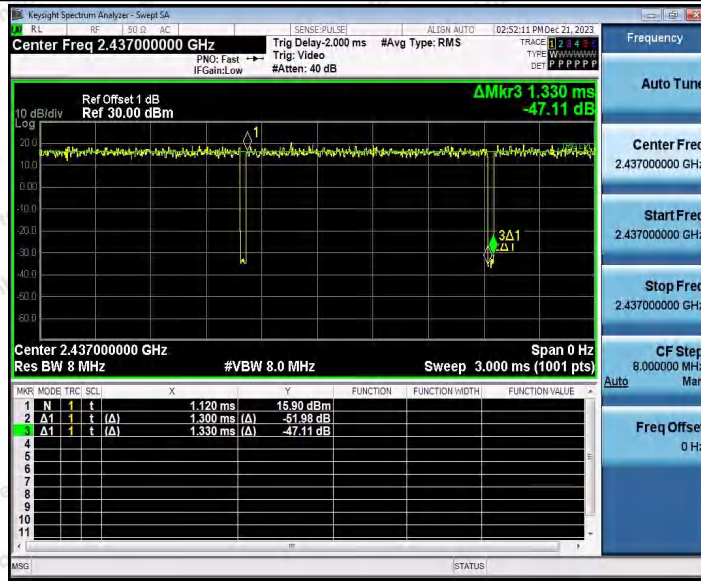
11N20SISO\_Ant1\_2437

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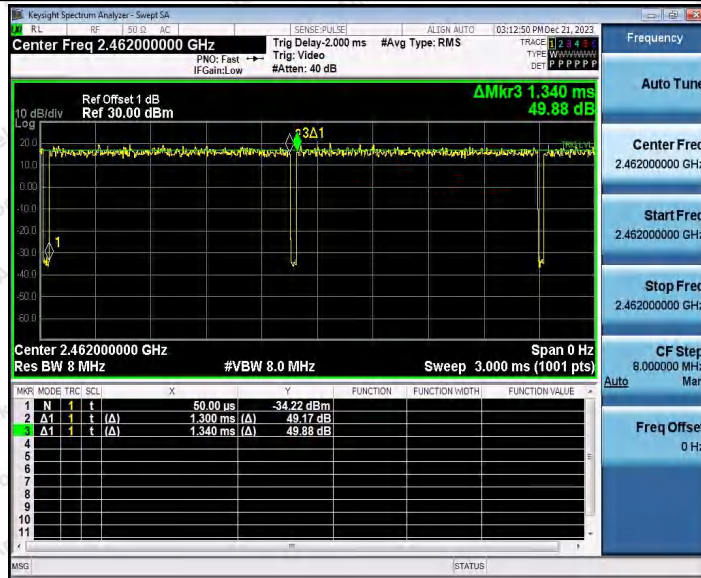
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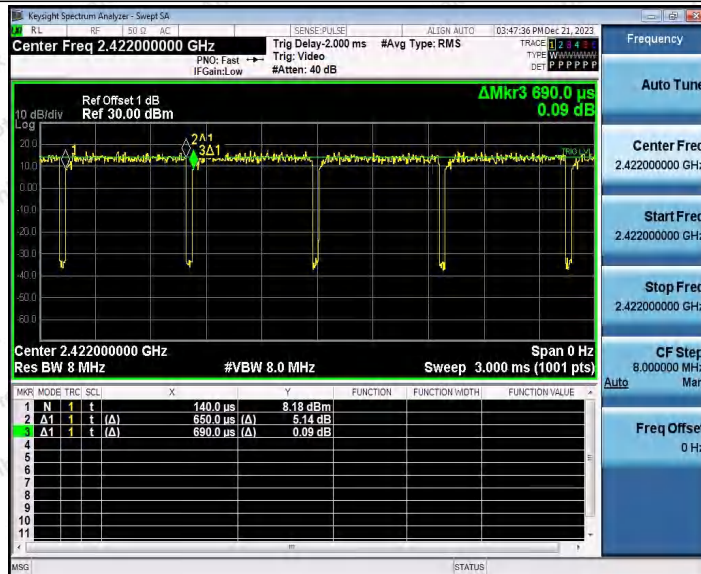




11N20SISO\_Ant1\_2462



11N40SISO\_Ant1\_2422



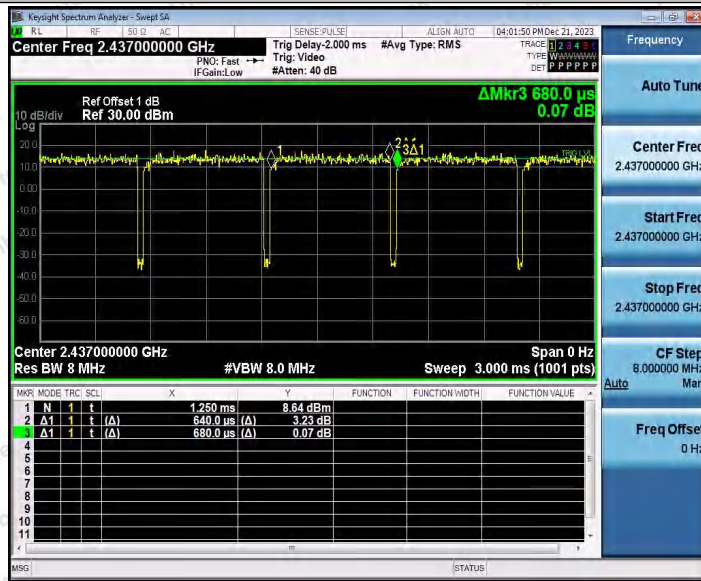
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 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

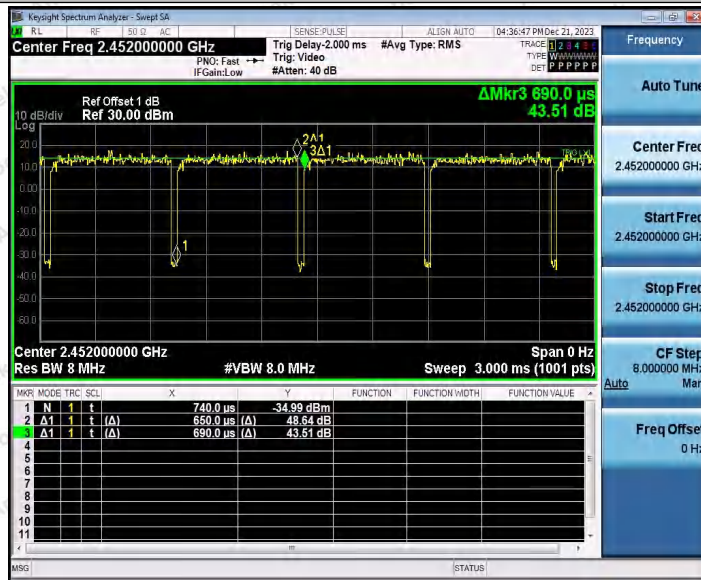
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### 11N40SISO\_Ant1\_2437



### 11N40SISO\_Ant1\_2452



---End---

