

## Appendix Test Data

Report No.:	18220WC40073702	Test Sample No.:	1-2-2
Start Test Date:	2024.04.16	Finish Test Date:	2024.04.29
Test Engineer:	<i>Joker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	24.3°C	Relative Humidity:	49%
Pressure:	101kPa		

## Appendix A: 6dB Bandwidth

## Test Result

TestMode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.960	2407.080	2417.040	0.5	PASS
11B	Ant1	2437	9.560	2432.440	2442.000	0.5	PASS
11B	Ant1	2462	9.960	2457.040	2467.000	0.5	PASS
11G	Ant1	2412	16.360	2403.800	2420.160	0.5	PASS
11G	Ant1	2437	16.360	2428.800	2445.160	0.5	PASS
11G	Ant1	2462	16.360	2453.800	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.560	2403.200	2420.760	0.5	PASS
11N20SISO	Ant1	2437	17.320	2428.200	2445.520	0.5	PASS
11N20SISO	Ant1	2462	17.120	2453.360	2470.480	0.5	PASS
11N40SISO	Ant1	2422	35.280	2404.240	2439.520	0.5	PASS
11N40SISO	Ant1	2437	34.640	2419.480	2454.120	0.5	PASS
11N40SISO	Ant1	2452	34.480	2435.040	2469.520	0.5	PASS

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## Test Graphs



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

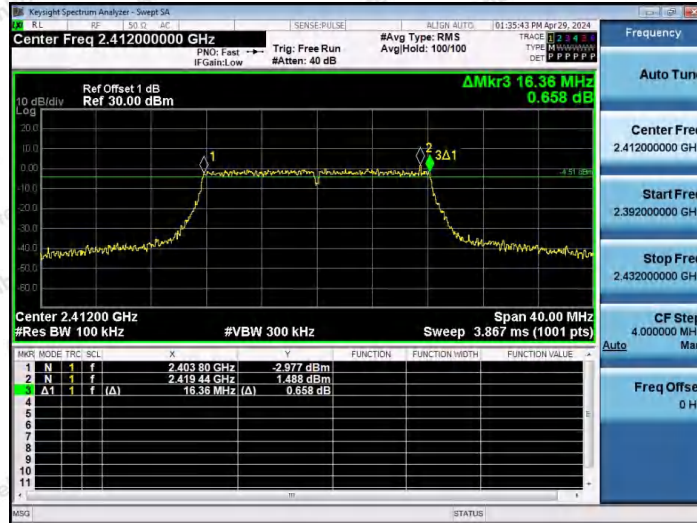
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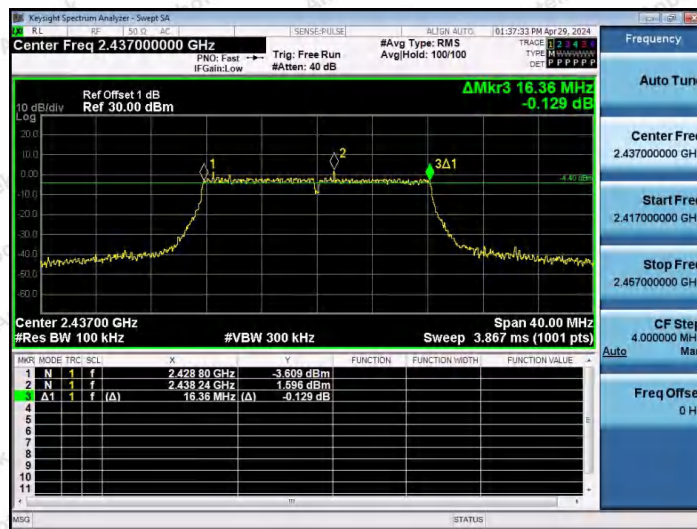
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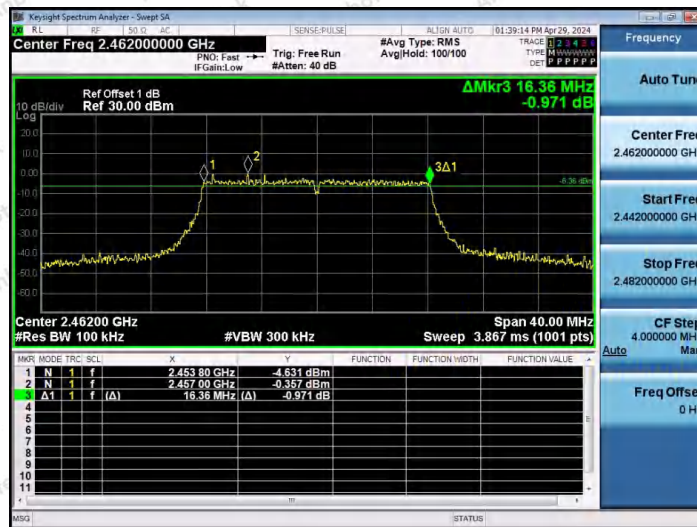




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



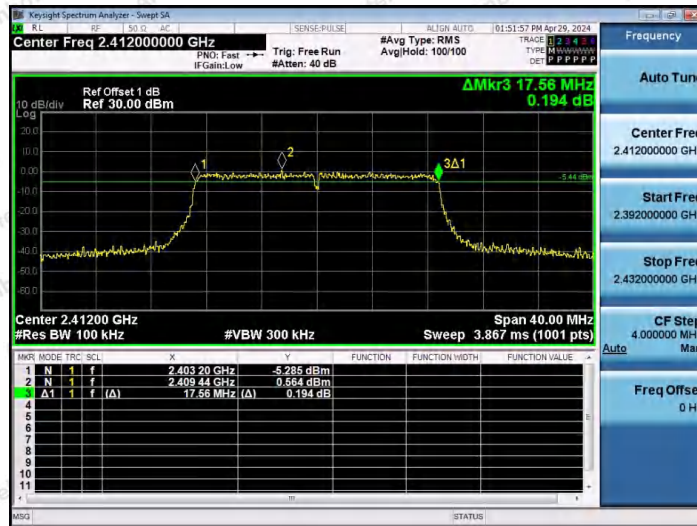
11G-Ant1-2462-PASS

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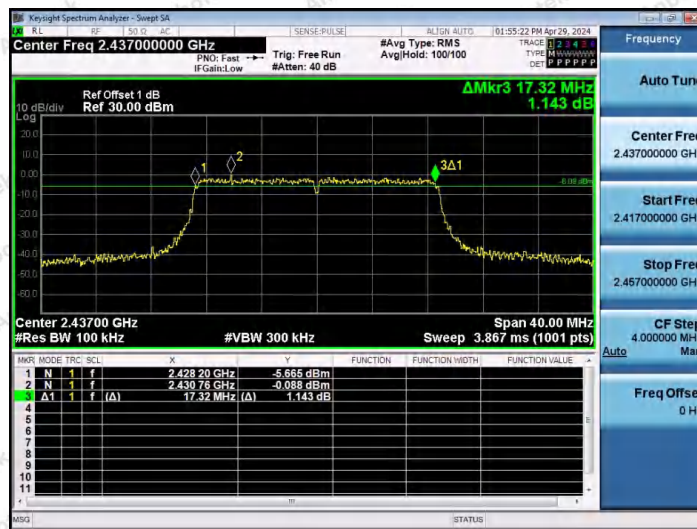
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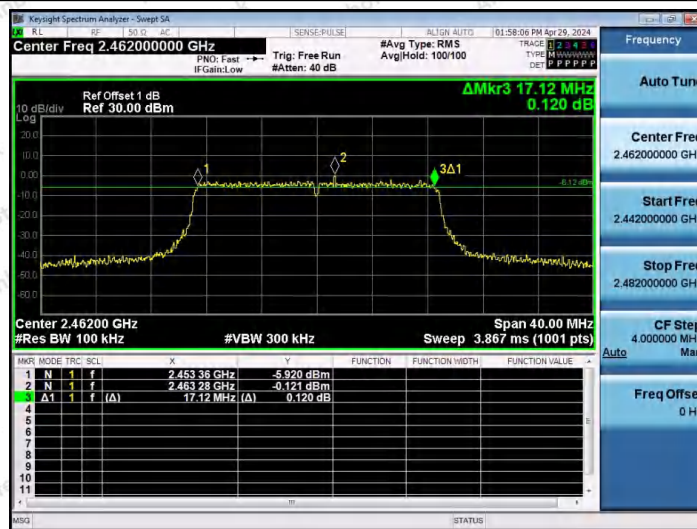




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

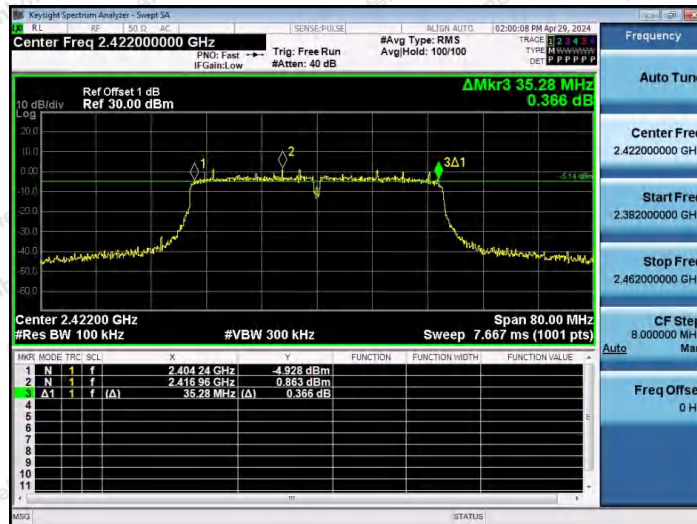
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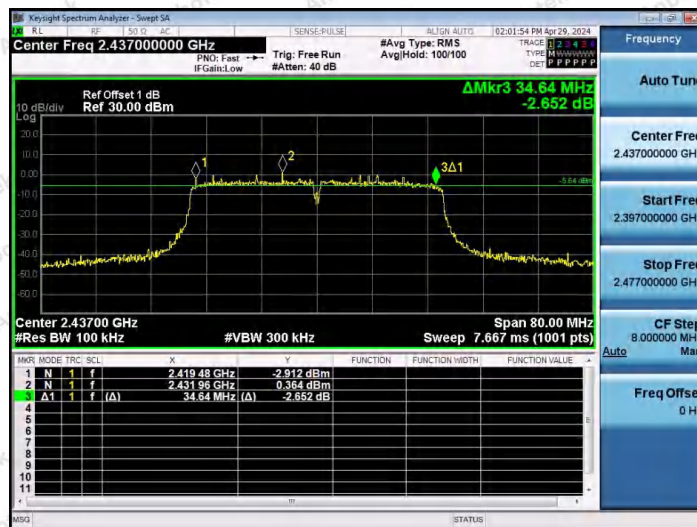
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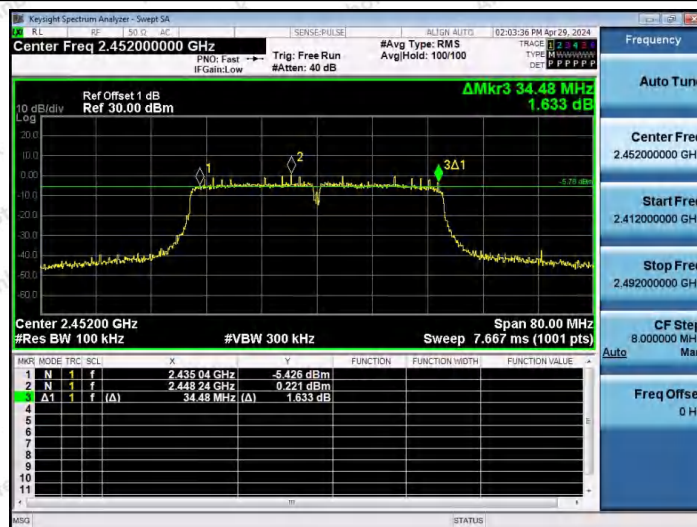




11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



11N40SISO-Ant1-2452-PASS

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## Appendix B: 99% Occupied Bandwidth

### Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.069	2405.4456	2418.5146	---	---
11B	Ant1	2437	13.074	2430.4153	2443.4893	---	---
11B	Ant1	2462	13.006	2455.4647	2468.4707	---	---
11G	Ant1	2412	16.795	2403.6149	2420.4099	---	---
11G	Ant1	2437	16.763	2428.6286	2445.3916	---	---
11G	Ant1	2462	16.777	2453.6267	2470.4037	---	---
11N20SISO	Ant1	2412	17.542	2403.2248	2420.7668	---	---
11N20SISO	Ant1	2437	17.578	2428.2195	2445.7975	---	---
11N20SISO	Ant1	2462	17.544	2453.2385	2470.7825	---	---
11N40SISO	Ant1	2422	36.066	2404.0161	2440.0821	---	---
11N40SISO	Ant1	2437	36.050	2418.9824	2455.0324	---	---
11N40SISO	Ant1	2452	36.047	2433.9882	2470.0352	---	---

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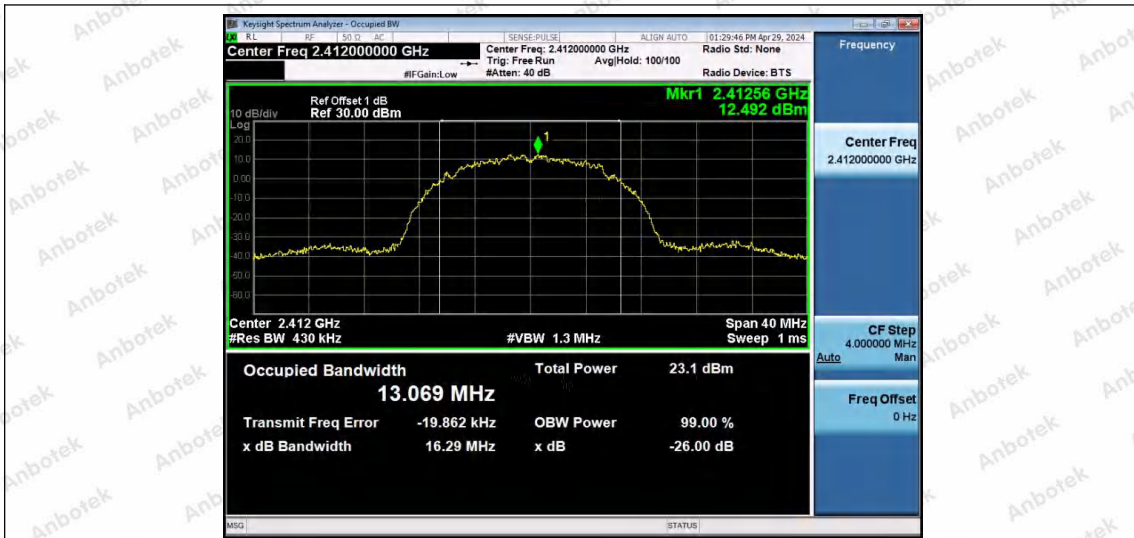


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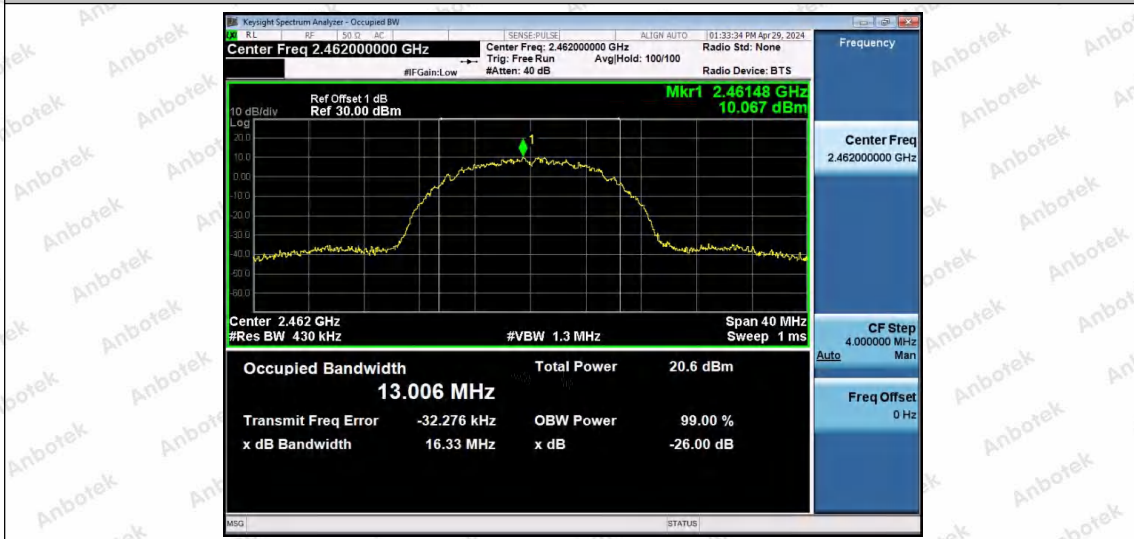
## Test Graphs



11B-Ant1-2412



11B-Ant1-2437



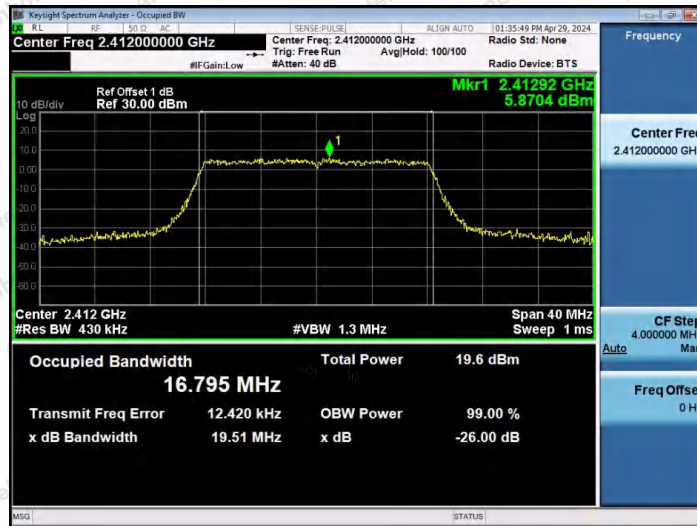
11B-Ant1-2462

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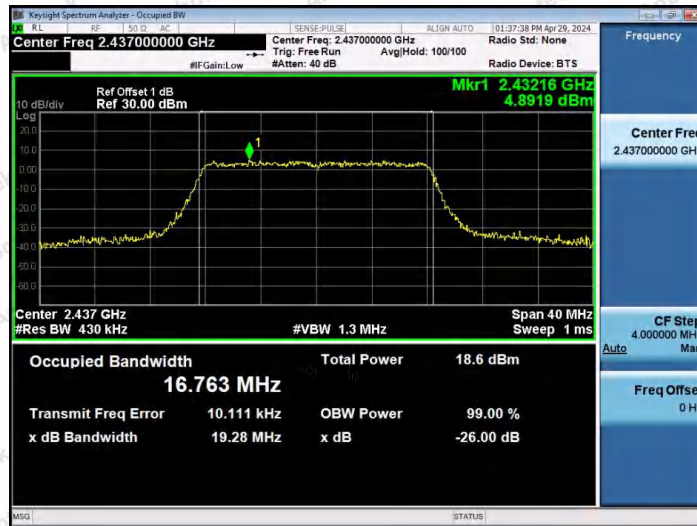
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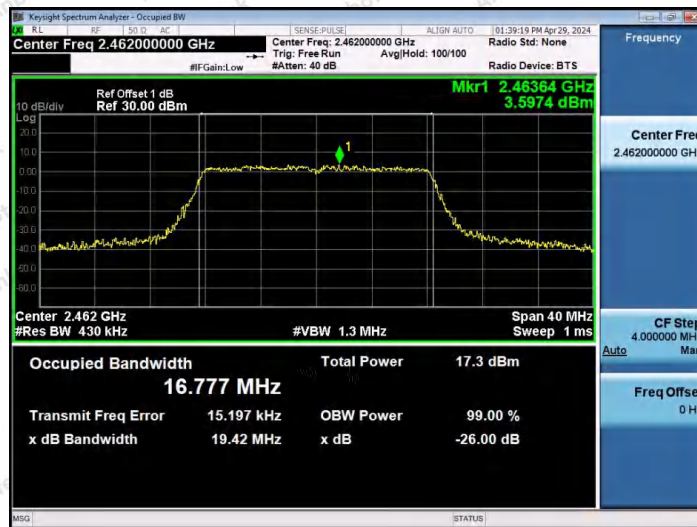




11G-Ant1-2412



11G-Ant1-2437



11G-Ant1-2462

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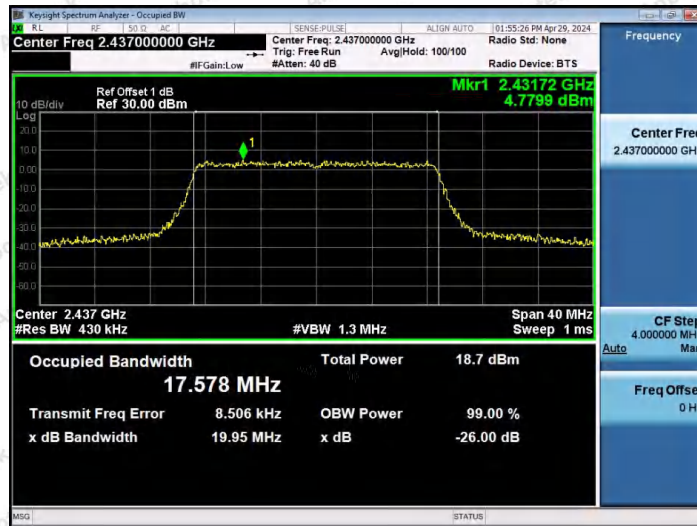
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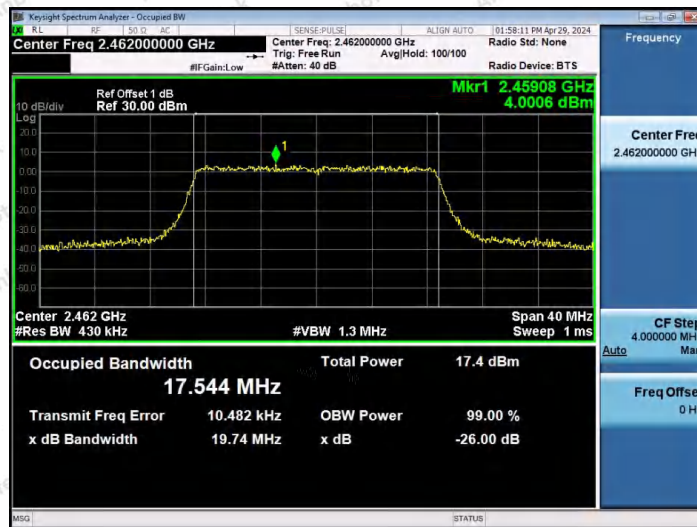




11N20SISO-Ant1-2412



11N20SISO-Ant1-2437



11N20SISO-Ant1-2462

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11N40SISO-Ant1-2422



11N40SISO-Ant1-2437



11N40SISO-Ant1-2452

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## Appendix C: Maximum conducted output power

### Test Result Average

Test Mode	Antenna	Frequency[MHz]	Average power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	16.32	100.00	0.00	<b>16.32</b>	≤30.00	PASS
11B	Ant1	2437	15.16	100.00	0.00	15.16	≤30.00	PASS
11B	Ant1	2462	13.89	100.00	0.00	13.89	≤30.00	PASS
11G	Ant1	2412	13.51	99.82	0.01	13.52	≤30.00	PASS
11G	Ant1	2437	12.52	99.46	0.02	12.54	≤30.00	PASS
11G	Ant1	2462	11.18	99.46	0.02	11.20	≤30.00	PASS
11N20SISO	Ant1	2412	13.71	99.41	0.03	13.74	≤30.00	PASS
11N20SISO	Ant1	2437	12.51	99.41	0.03	12.54	≤30.00	PASS
11N20SISO	Ant1	2462	11.22	99.41	0.03	11.25	≤30.00	PASS
11N40SISO	Ant1	2422	14.80	98.80	0.05	14.85	≤30.00	PASS
11N40SISO	Ant1	2437	14.18	99.20	0.03	14.21	≤30.00	PASS
11N40SISO	Ant1	2452	13.50	98.80	0.05	13.55	≤30.00	PASS

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

### Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	21.10	≤30.00	PASS
11B	Ant1	2437	20.05	≤30.00	PASS
11B	Ant1	2462	18.95	≤30.00	PASS
11G	Ant1	2412	<b>21.52</b>	≤30.00	PASS
11G	Ant1	2437	20.49	≤30.00	PASS
11G	Ant1	2462	19.37	≤30.00	PASS
11N20SISO	Ant1	2412	20.22	≤30.00	PASS
11N20SISO	Ant1	2437	19.18	≤30.00	PASS
11N20SISO	Ant1	2462	18.08	≤30.00	PASS
11N40SISO	Ant1	2422	21.11	≤30.00	PASS
11N40SISO	Ant1	2437	20.32	≤30.00	PASS
11N40SISO	Ant1	2452	19.70	≤30.00	PASS

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## Test Graphs Average



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

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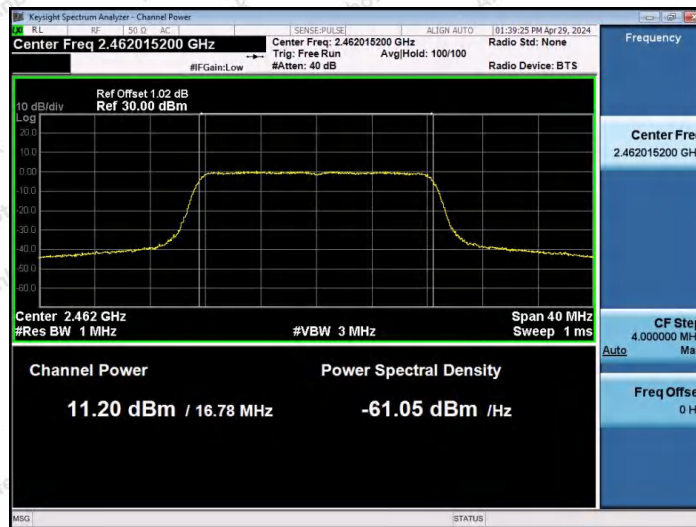




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



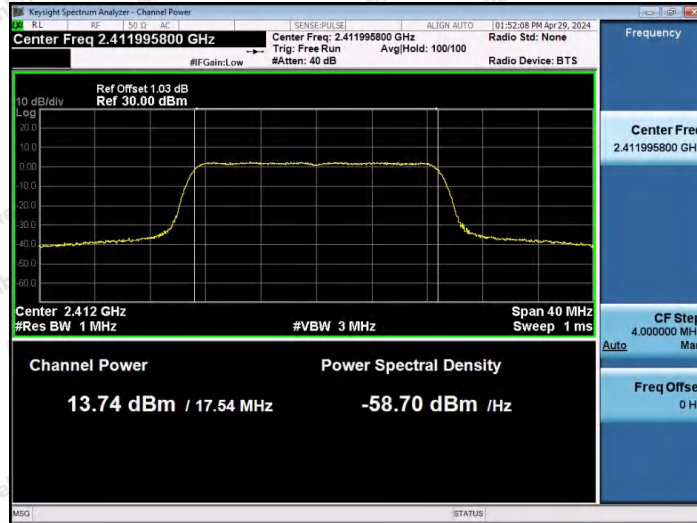
11G-Ant1-2462-PASS

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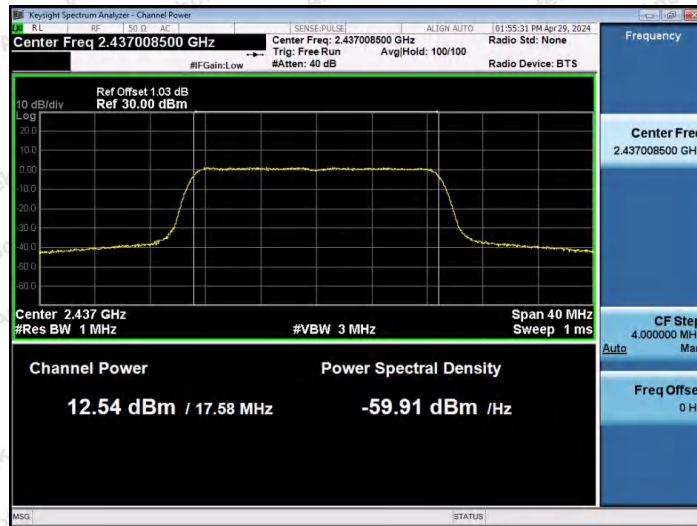
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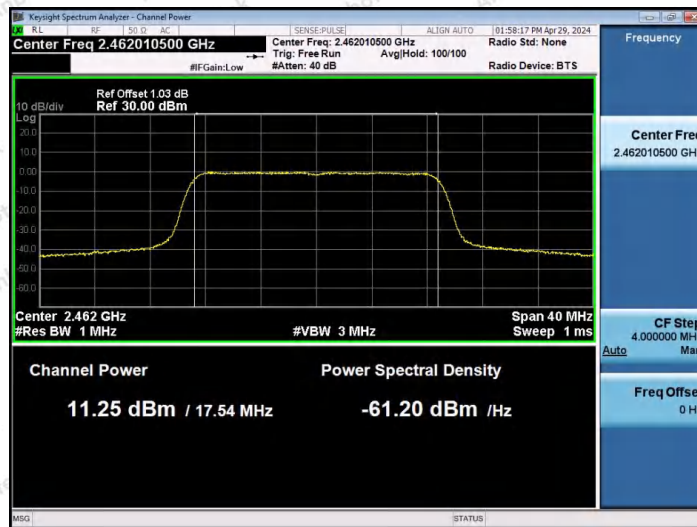




11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS

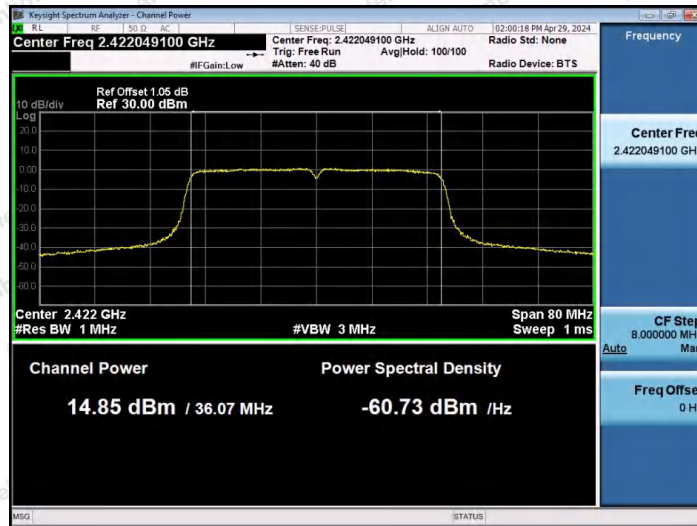
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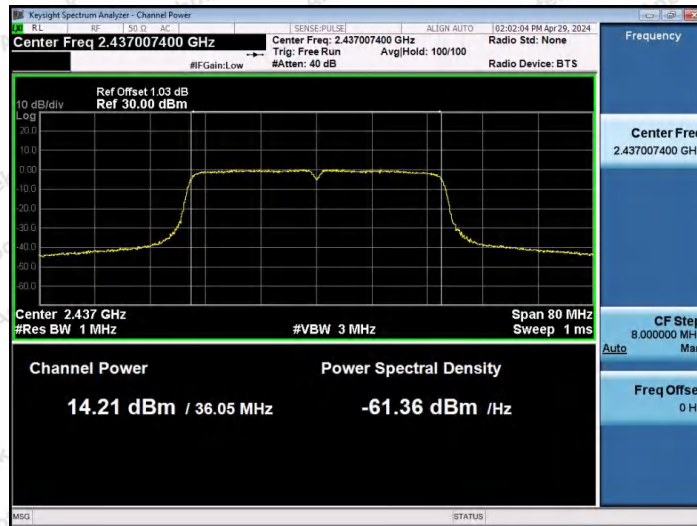
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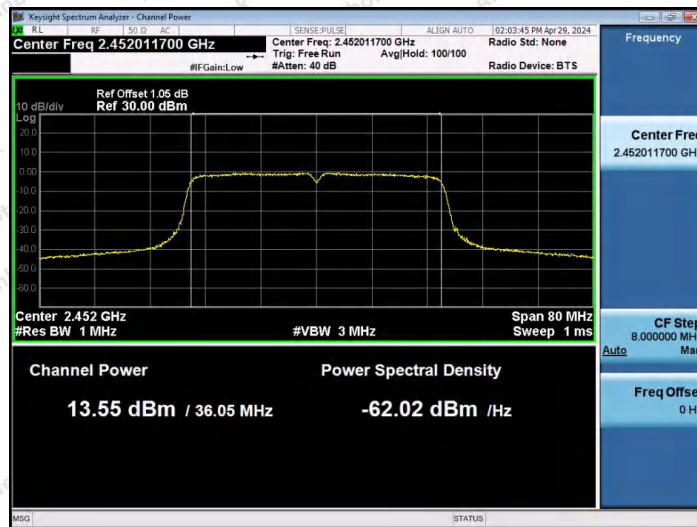




11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



11N40SISO-Ant1-2452-PASS

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## Appendix D: Maximum power spectral density

### Test Result

TestMode	Antenna	Frequency [MHz]	Result[dBm/30kHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-5.90	-15.90	≤8.00	PASS
11B	Ant1	2437	-7.27	-17.27	≤8.00	PASS
11B	Ant1	2462	-8.24	-18.24	≤8.00	PASS
11G	Ant1	2412	-10.81	-20.81	≤8.00	PASS
11G	Ant1	2437	-11.94	-21.94	≤8.00	PASS
11G	Ant1	2462	-13.26	-23.26	≤8.00	PASS
11N20SIS O	Ant1	2412	-10.79	-20.79	≤8.00	PASS
11N20SIS O	Ant1	2437	-11.54	-21.54	≤8.00	PASS
11N20SIS O	Ant1	2462	-13.21	-23.21	≤8.00	PASS
11N40SIS O	Ant1	2422	-11.83	-21.83	≤8.00	PASS
11N40SIS O	Ant1	2437	-12.32	-22.32	≤8.00	PASS
11N40SIS O	Ant1	2452	-13.28	-23.28	≤8.00	PASS

#### Note:

1. The Duty Cycle Factor( $10 \cdot \log(1/D)$ ) and cable loss are compensated in the graph.
2.  $PSD(dBm/3kHz) = PSD(dBm/30kHz) - (10 \cdot \log(30/3))$

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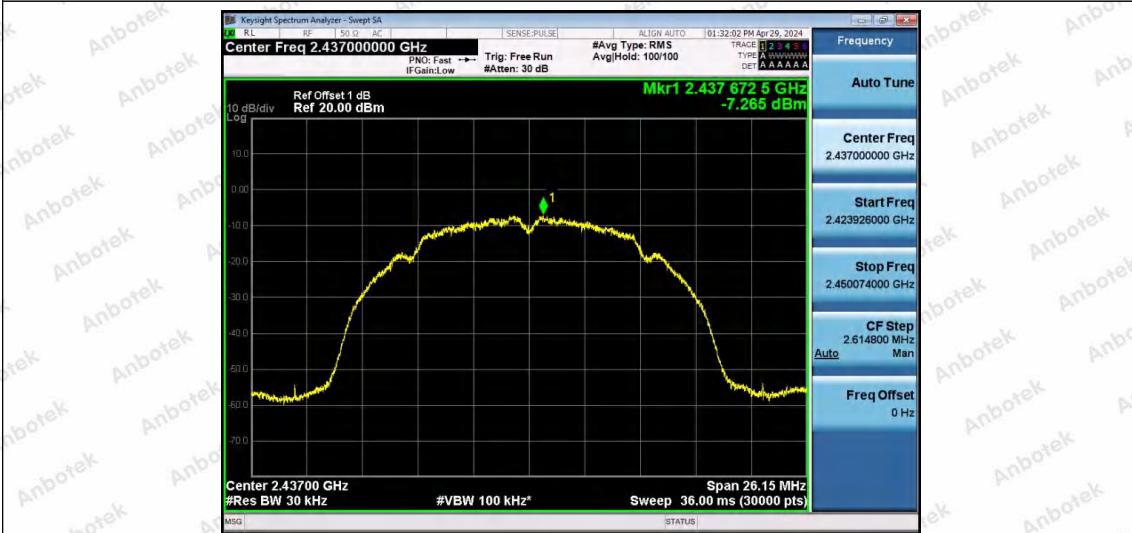




## Test Graphs



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



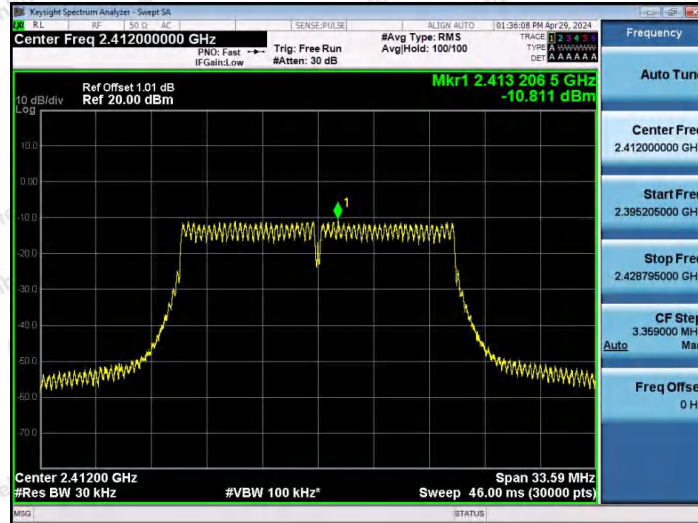
11B-Ant1-2462-PASS

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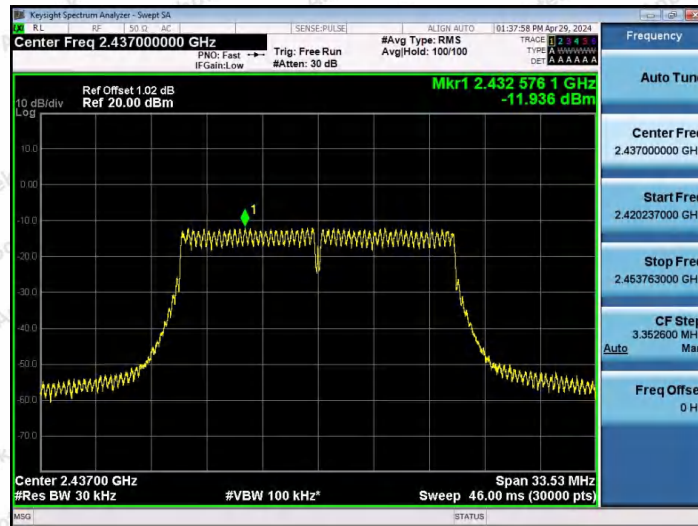
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11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

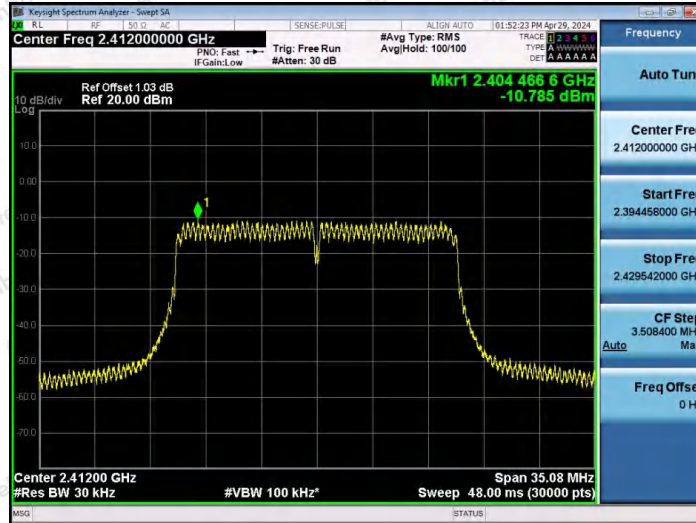
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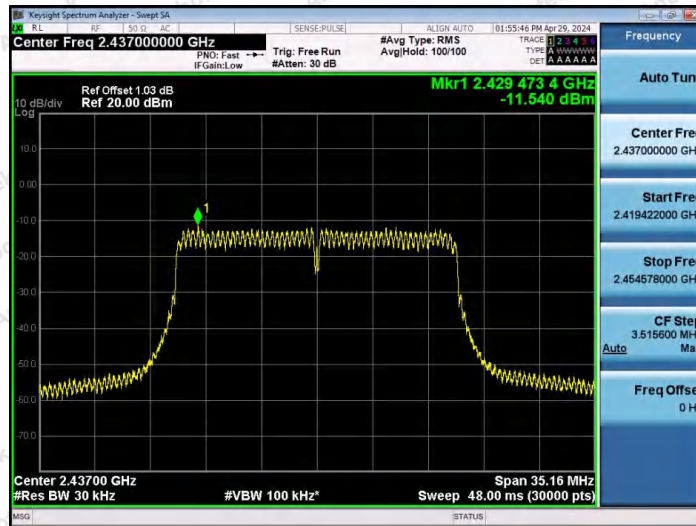
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11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



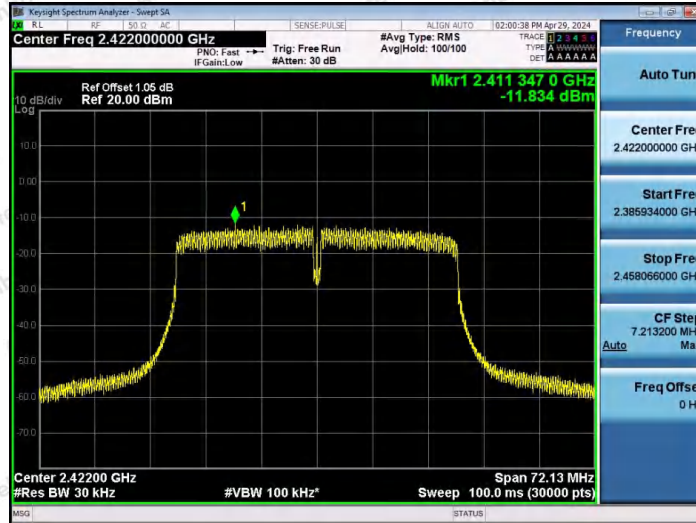
11N20SISO-Ant1-2462-PASS

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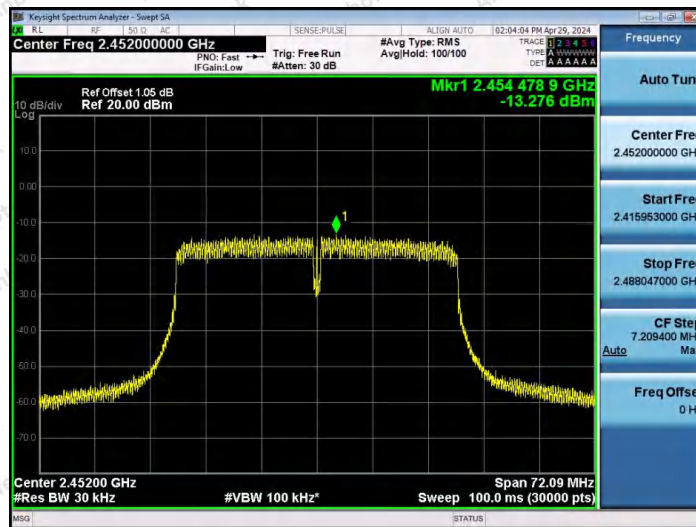




11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2437-PASS



11N40SISO-Ant1-2452-PASS

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## Appendix E: Conducted Band edge

### Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	8.24	-39.26	≤-21.76	PASS
11B	Ant1	High	2462	4.60	-49.28	≤-25.4	PASS
11G	Ant1	Low	2412	1.72	-37.62	≤-28.28	PASS
11G	Ant1	High	2462	-0.74	-46.49	≤-30.74	PASS
11N20SISO	Ant1	Low	2412	2.57	-36.27	≤-27.44	PASS
11N20SISO	Ant1	High	2462	-1.01	-46.54	≤-31.01	PASS
11N40SISO	Ant1	Low	2422	1.07	-35.42	≤-28.93	PASS
11N40SISO	Ant1	High	2452	-0.81	-42.43	≤-30.81	PASS

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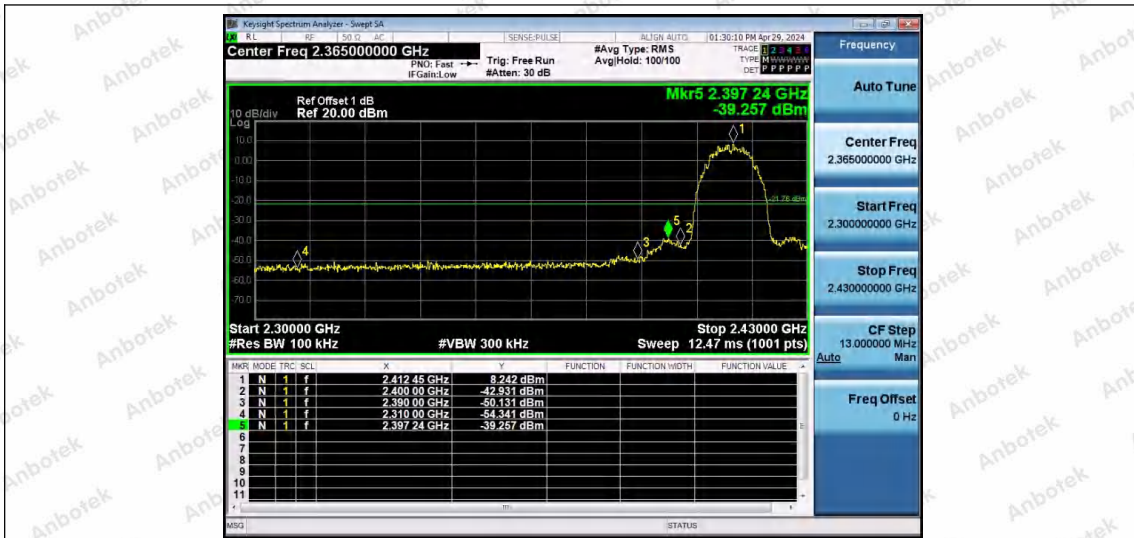
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



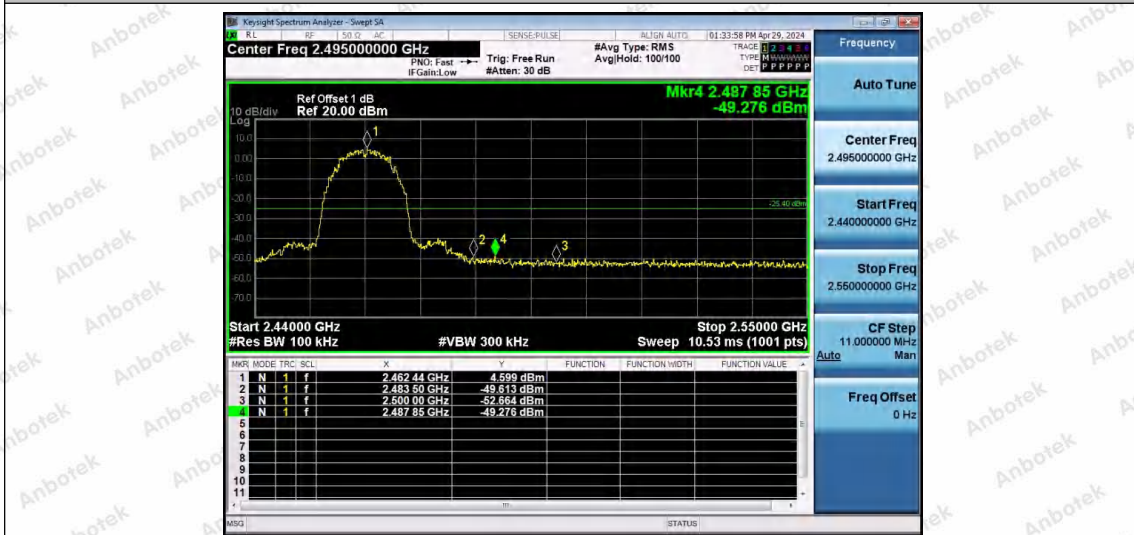
Hotline  
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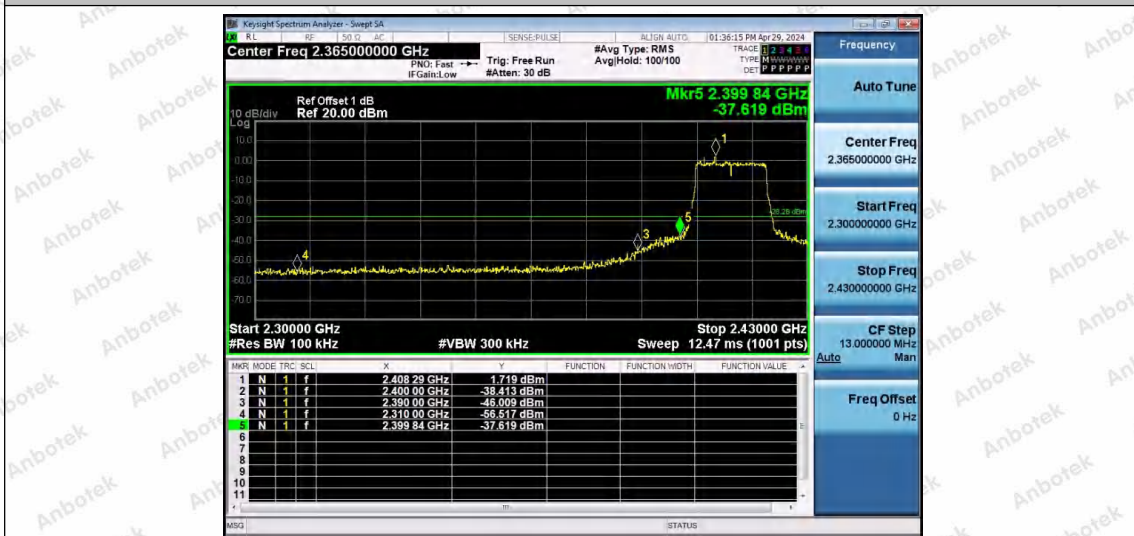
## Test Graphs



11B-Ant1-2412-PASS



11B-Ant1-2462-PASS



11G-Ant1-2412-PASS

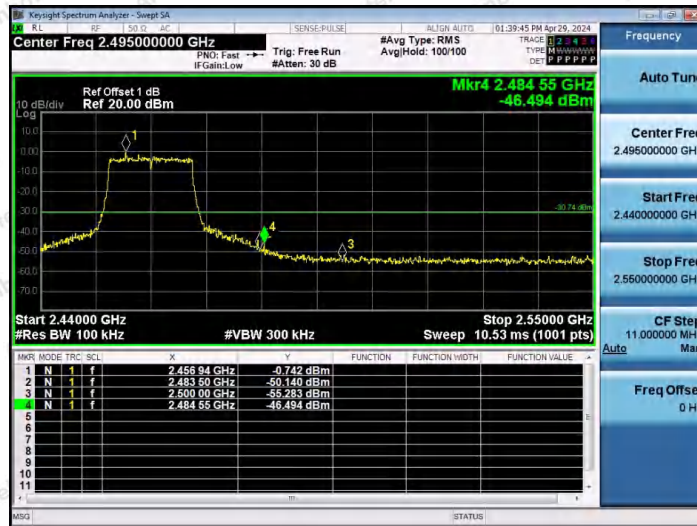
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

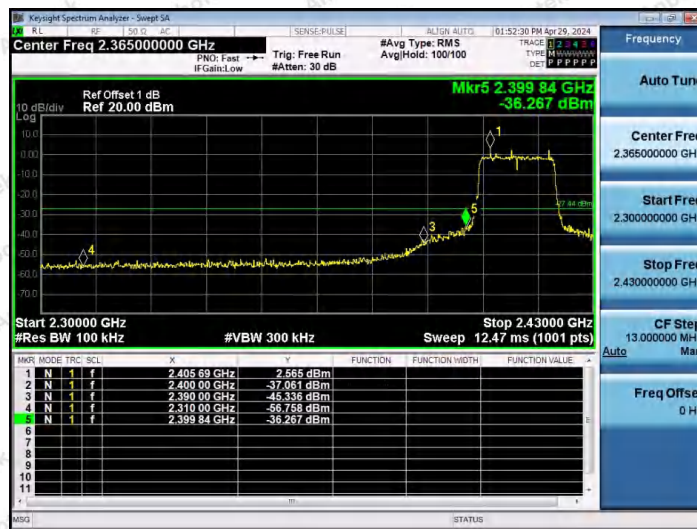
Hotline  
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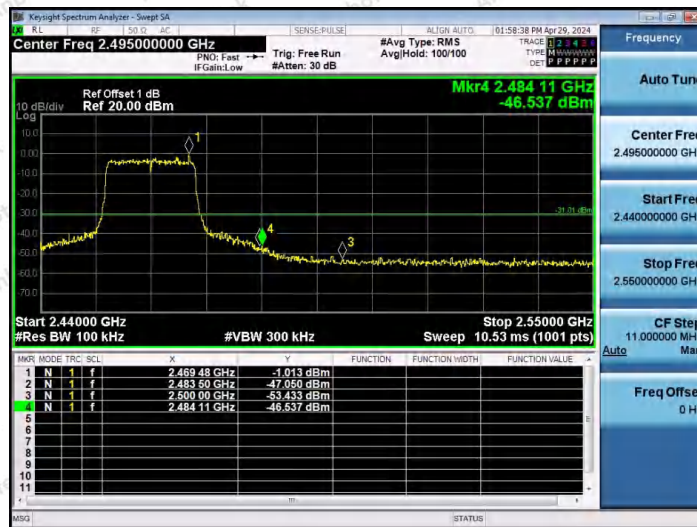




11G-Ant1-2462-PASS



11N20SISO-Ant1-2412-PASS



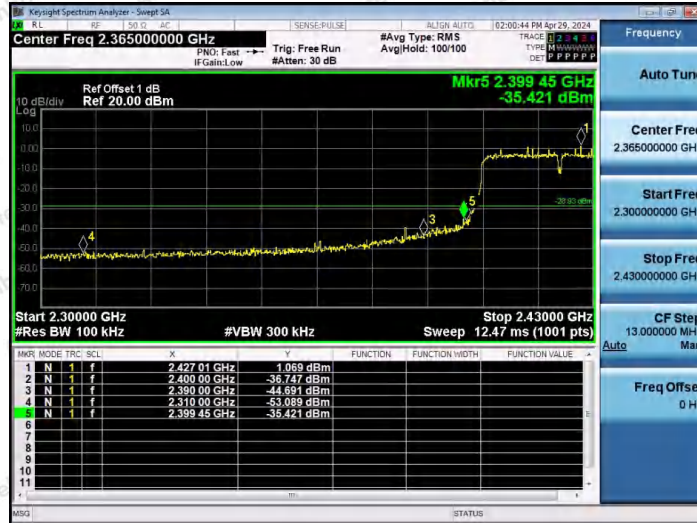
11N20SISO-Ant1-2462-PASS

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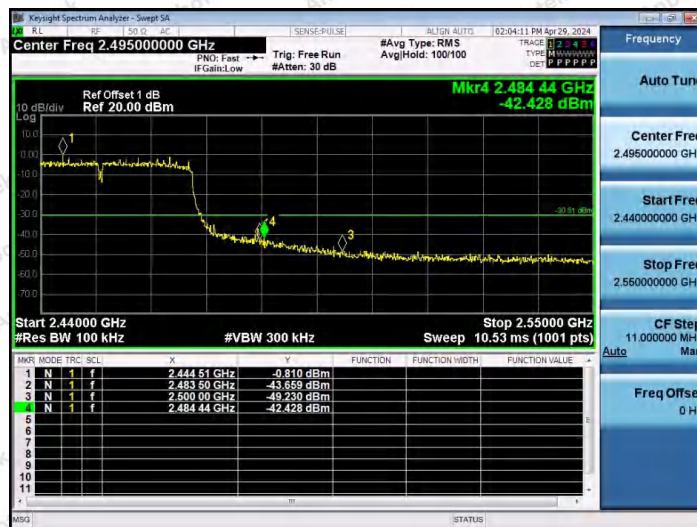
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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11N40SISO-Ant1-2422-PASS



11N40SISO-Ant1-2452-PASS

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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	0~Reference	7.83	7.83	---	PASS
11B	Ant1	2412	30~1000	7.83	-67.75	≤-22.17	PASS
11B	Ant1	2412	1000~26500	7.83	-52.59	≤-22.17	PASS
11B	Ant1	2437	0~Reference	6.36	6.36	---	PASS
11B	Ant1	2437	30~1000	6.36	-67.95	≤-23.64	PASS
11B	Ant1	2437	1000~26500	6.36	-52.51	≤-23.64	PASS
11B	Ant1	2462	0~Reference	4.09	4.09	---	PASS
11B	Ant1	2462	30~1000	4.09	-67.88	≤-25.91	PASS
11B	Ant1	2462	1000~26500	4.09	-50.19	≤-25.91	PASS
11G	Ant1	2412	0~Reference	1.51	1.51	---	PASS
11G	Ant1	2412	30~1000	1.51	-68.39	≤-28.49	PASS
11G	Ant1	2412	1000~26500	1.51	-48.7	≤-28.49	PASS
11G	Ant1	2437	0~Reference	-1.92	-1.92	---	PASS
11G	Ant1	2437	30~1000	-1.92	-68.49	≤-31.92	PASS
11G	Ant1	2437	1000~26500	-1.92	-52.97	≤-31.92	PASS
11G	Ant1	2462	0~Reference	-3.13	-3.13	---	PASS
11G	Ant1	2462	30~1000	-3.13	-68.58	≤-33.13	PASS
11G	Ant1	2462	1000~26500	-3.13	-53.5	≤-33.13	PASS
11N20SISO	Ant1	2412	0~Reference	-1.18	-1.18	---	PASS
11N20SISO	Ant1	2412	30~1000	-1.18	-68.46	≤-31.18	PASS
11N20SISO	Ant1	2412	1000~26500	-1.18	-52.64	≤-31.18	PASS
11N20SISO	Ant1	2437	0~Reference	0.84	0.84	---	PASS
11N20SISO	Ant1	2437	30~1000	0.84	-68.88	≤-29.16	PASS
11N20SISO	Ant1	2437	1000~26500	0.84	-53.58	≤-29.16	PASS
11N20SISO	Ant1	2462	0~Reference	-0.58	-0.58	---	PASS
11N20SISO	Ant1	2462	30~1000	-0.58	-68.23	≤-30.58	PASS
11N20SISO	Ant1	2462	1000~26500	-0.58	-53.18	≤-30.58	PASS
11N40SISO	Ant1	2422	0~Reference	-1.59	-1.59	---	PASS
11N40SISO	Ant1	2422	30~1000	-1.59	-60.07	≤-31.59	PASS
11N40SISO	Ant1	2422	1000~26500	-1.59	-53.7	≤-31.59	PASS
11N40SISO	Ant1	2437	0~Reference	0.07	0.07	---	PASS
11N40SISO	Ant1	2437	30~1000	0.07	-62.69	≤-29.93	PASS
11N40SISO	Ant1	2437	1000~26500	0.07	-53.54	≤-29.93	PASS
11N40SISO	Ant1	2452	0~Reference	-1.50	-1.50	---	PASS
11N40SISO	Ant1	2452	30~1000	-1.50	-62.4	≤-31.5	PASS
11N40SISO	Ant1	2452	1000~26500	-1.50	-53.11	≤-31.5	PASS

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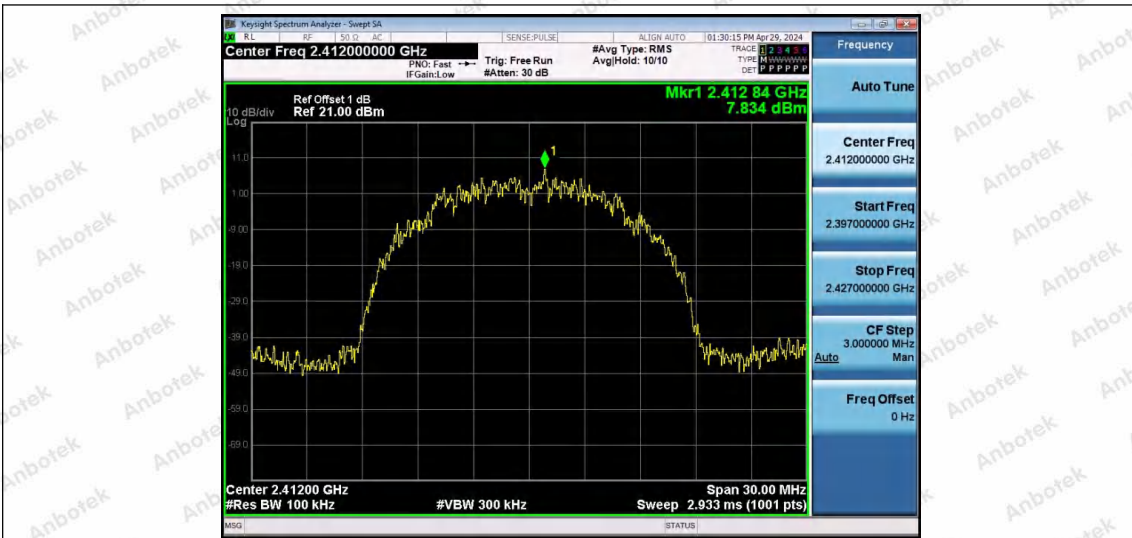
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



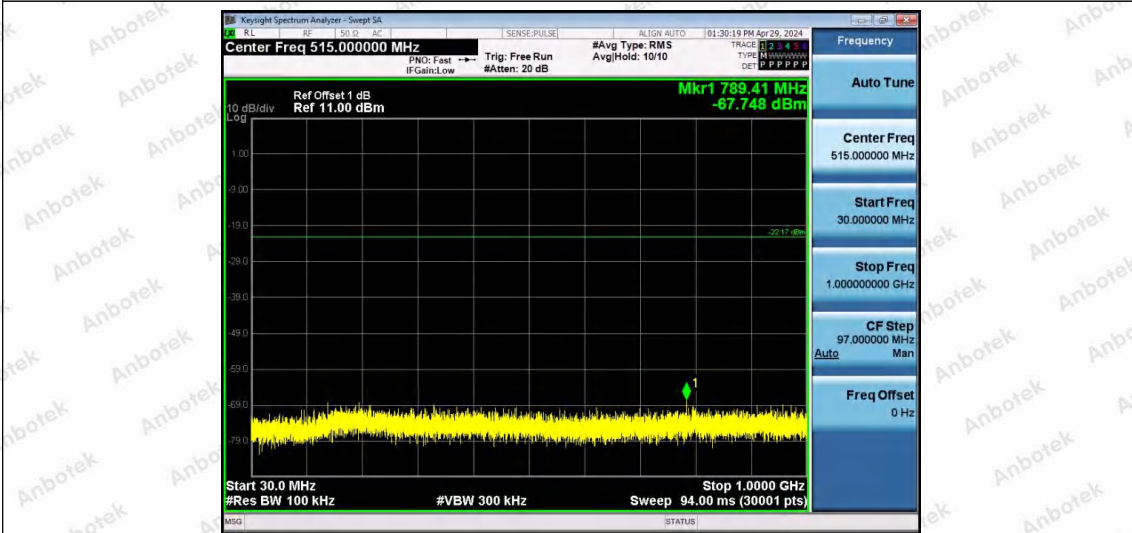
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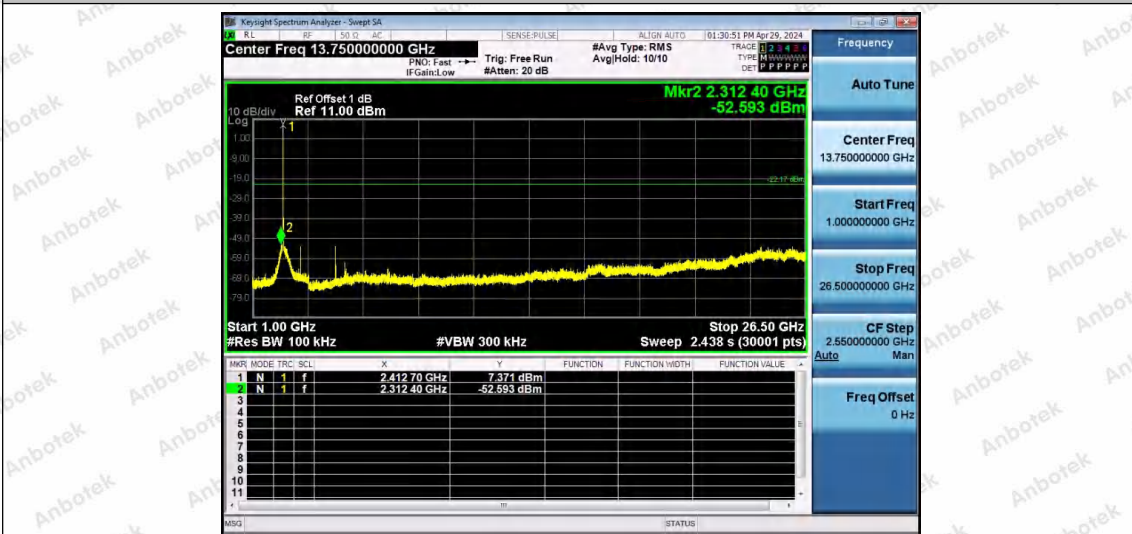
## Test Graphs



11B-Ant1-2412-0~Reference-PASS



11B-Ant1-2412-30~1000-PASS



11B-Ant1-2412-1000~26500-PASS

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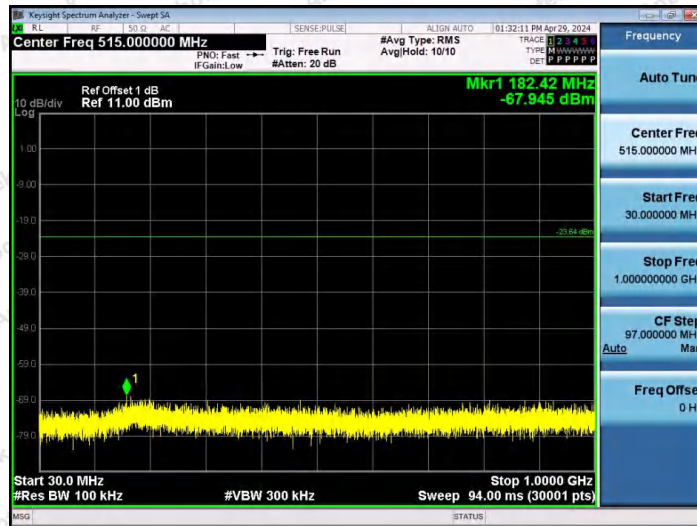
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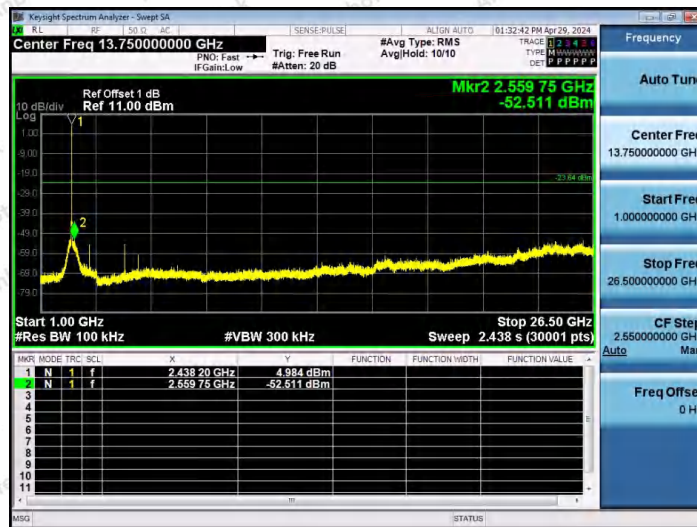




11B-Ant1-2437-0~Reference-PASS



11B-Ant1-2437-30~1000-PASS



11B-Ant1-2437-1000~26500-PASS

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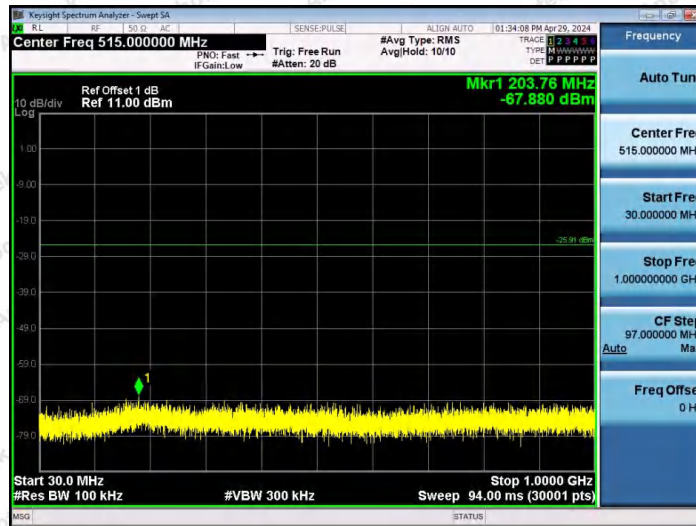
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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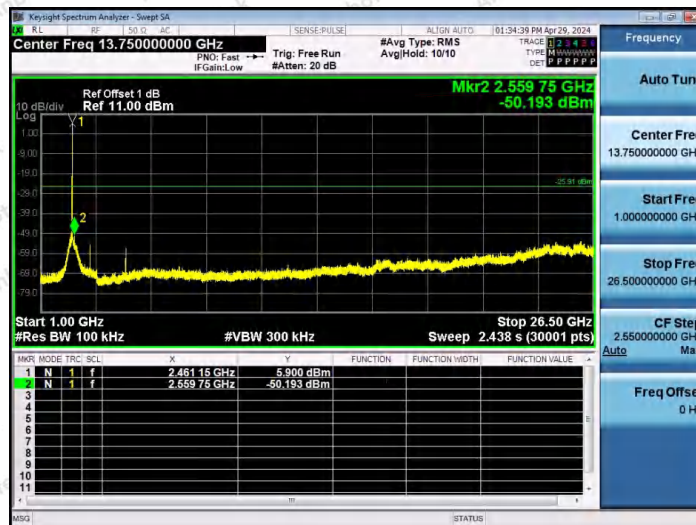




11B-Ant1-2462-0~Reference-PASS



11B-Ant1-2462-30~1000-PASS



11B-Ant1-2462-1000~26500-PASS

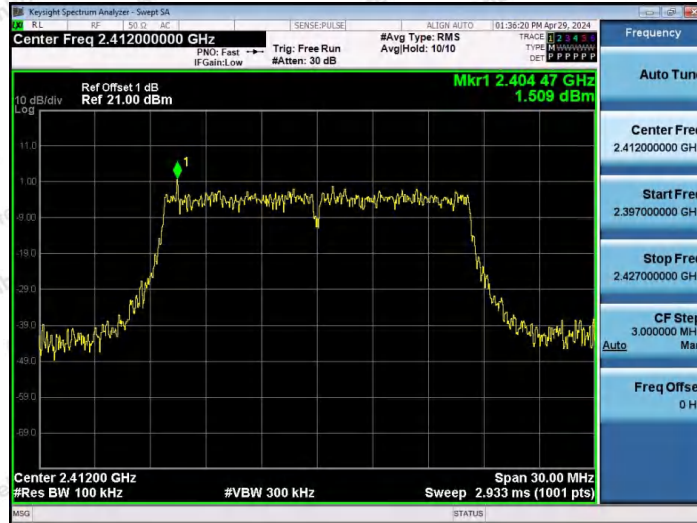
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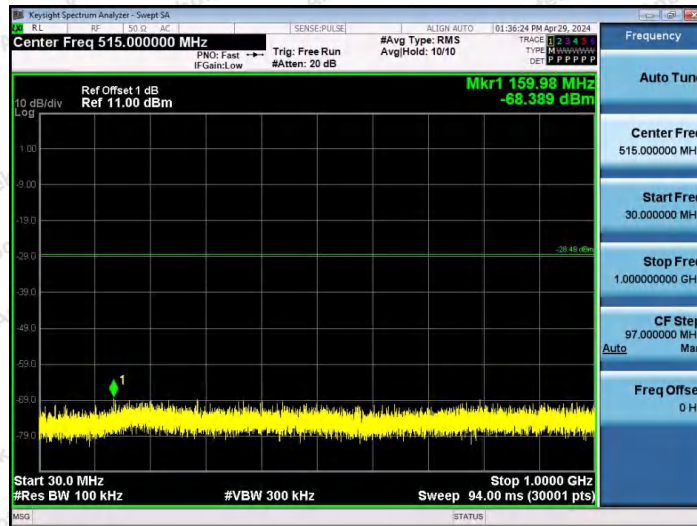
Hotline 400-003-0500  
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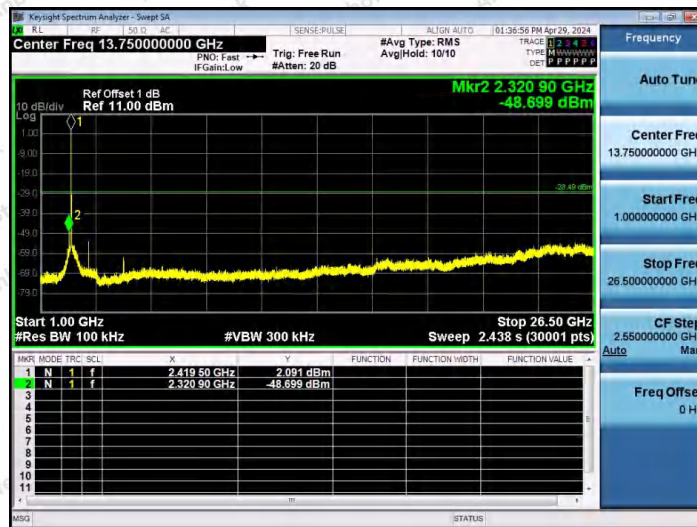




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11G-Ant1-2412-30~1000-PASS



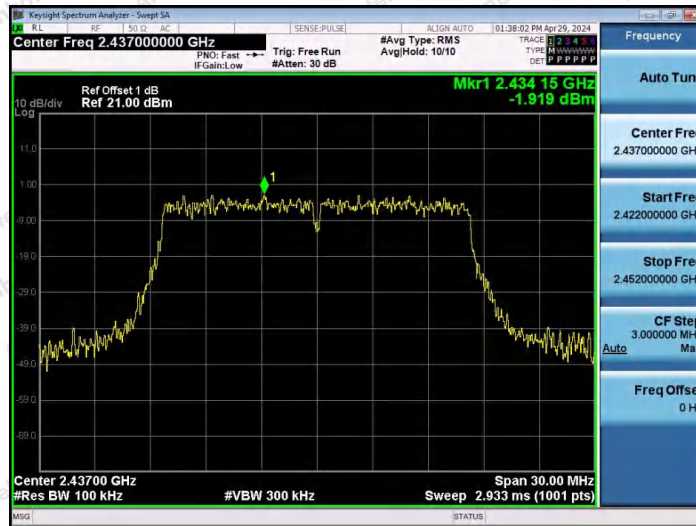
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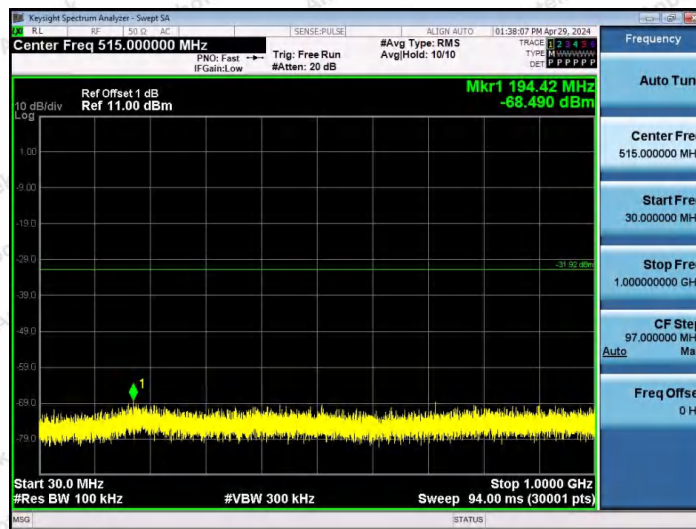
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

Hotline 400-003-0500  
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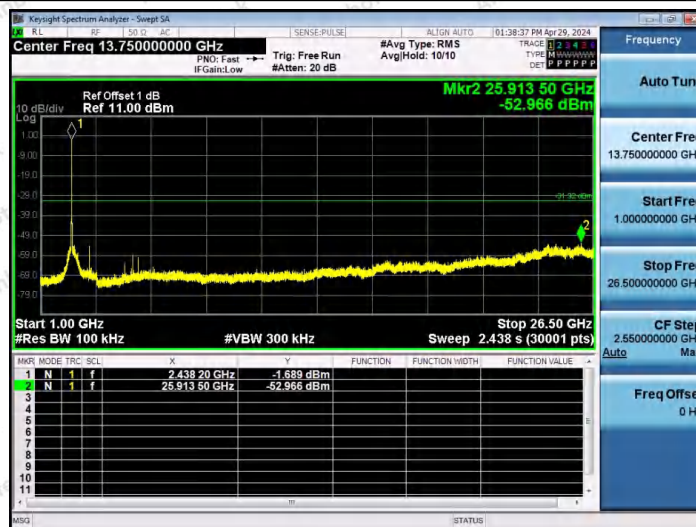




11G-Ant1-2437-0~Reference-PASS



11G-Ant1-2437-30~1000-PASS



11G-Ant1-2437-1000~26500-PASS

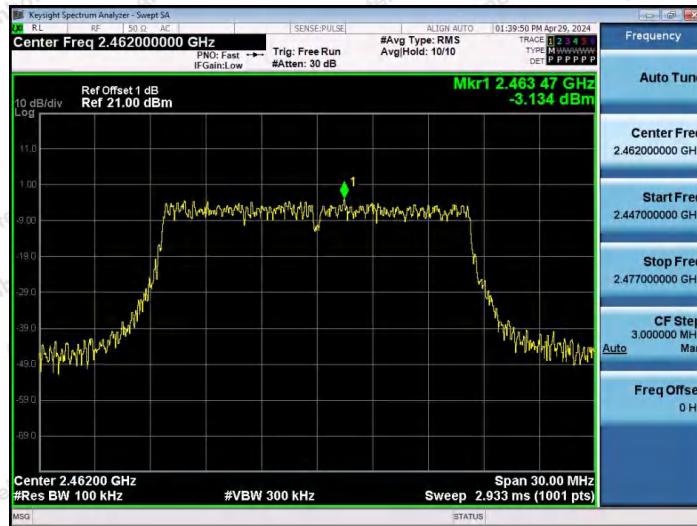
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

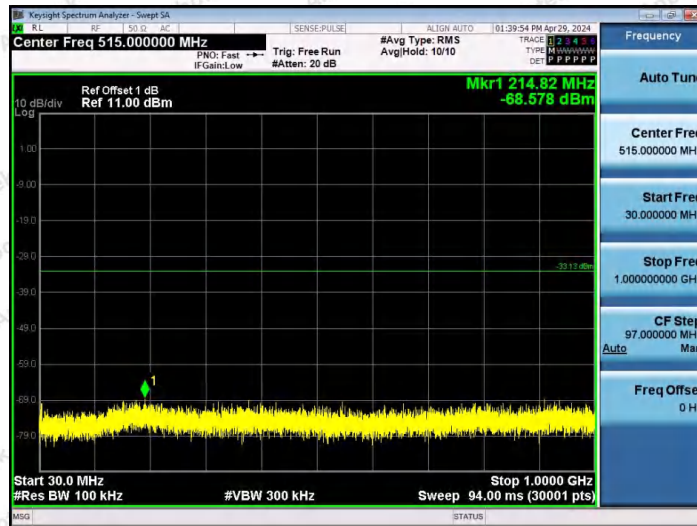
Hotline  
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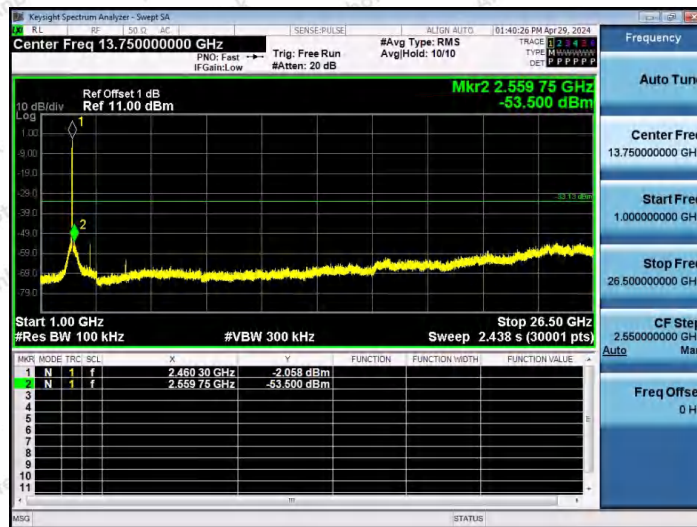




11G-Ant1-2462-0~Reference-PASS



11G-Ant1-2462-30~1000-PASS



11G-Ant1-2462-1000~26500-PASS

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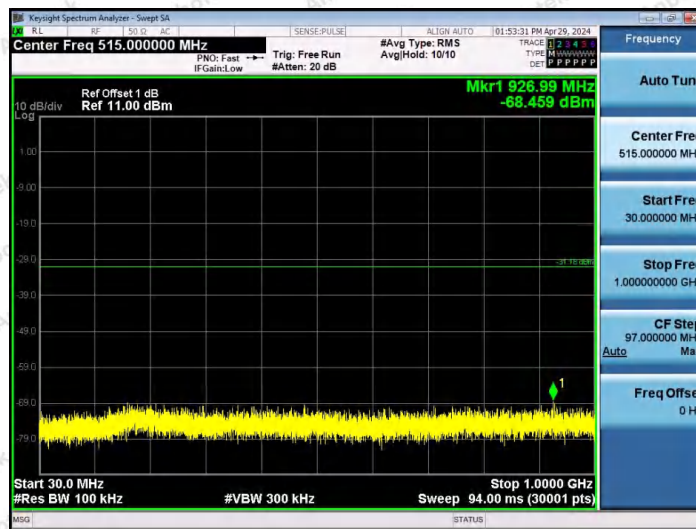
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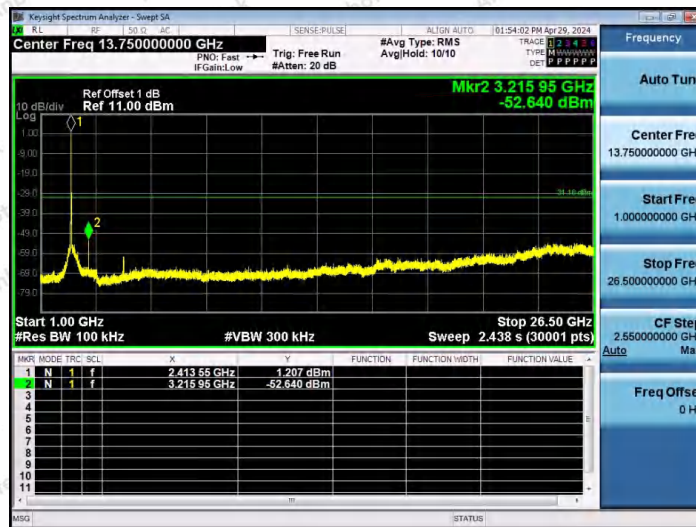




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11N20SISO-Ant1-2412-30~1000-PASS



11N20SISO-Ant1-2412-1000~26500-PASS

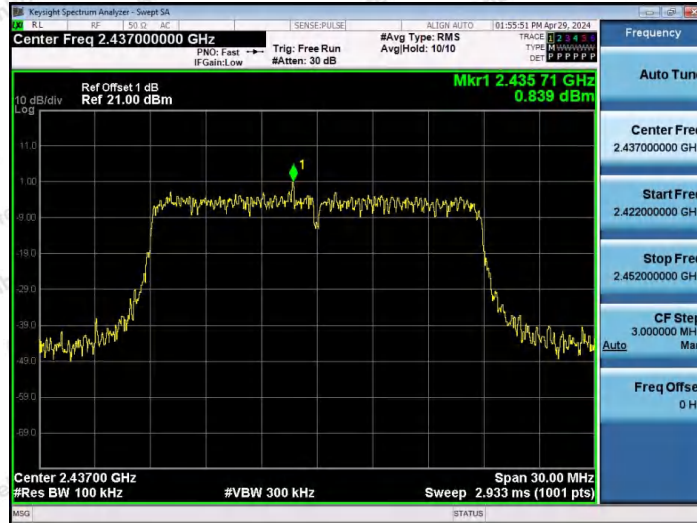
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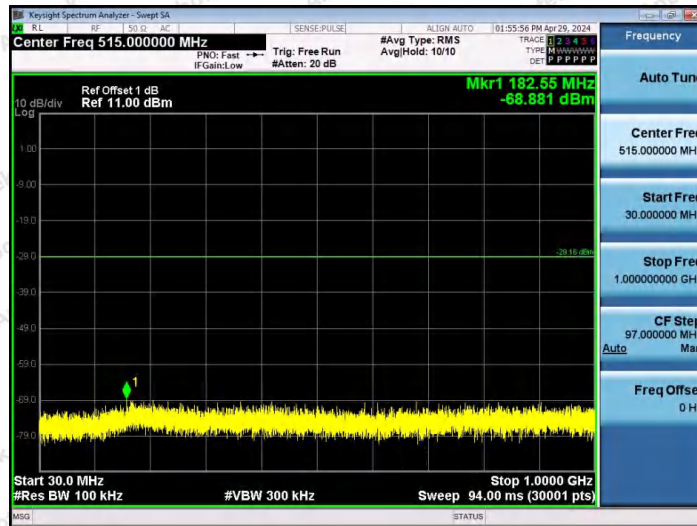
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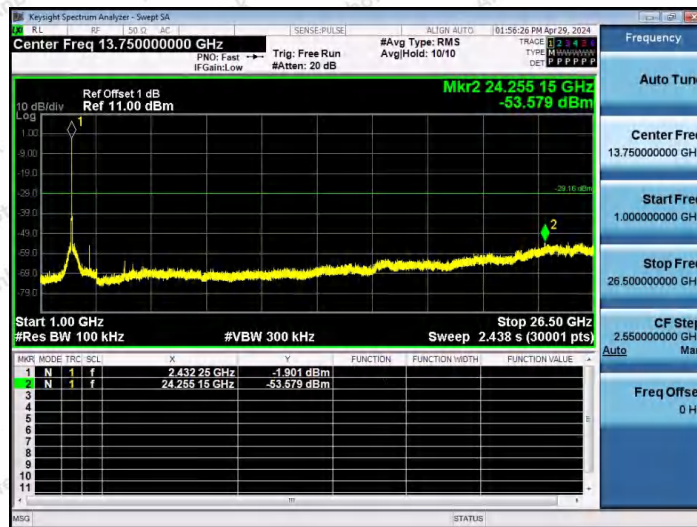




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11N20SISO-Ant1-2437-30~1000-PASS



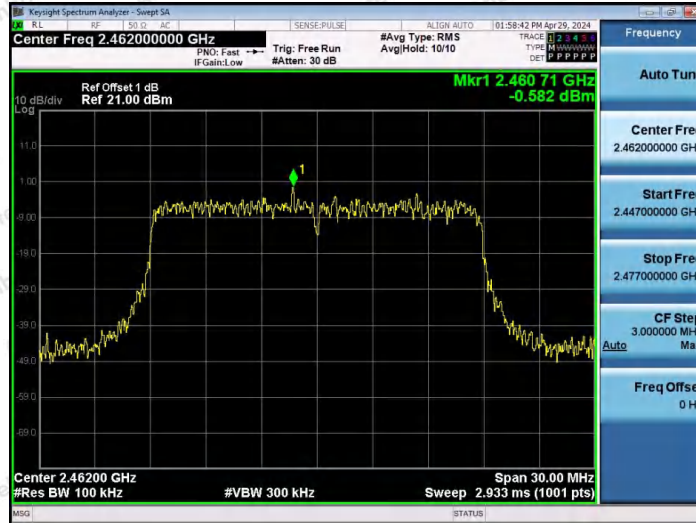
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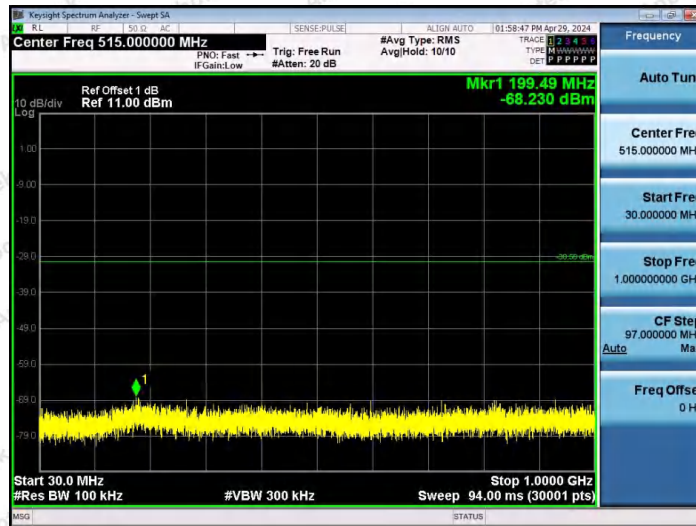
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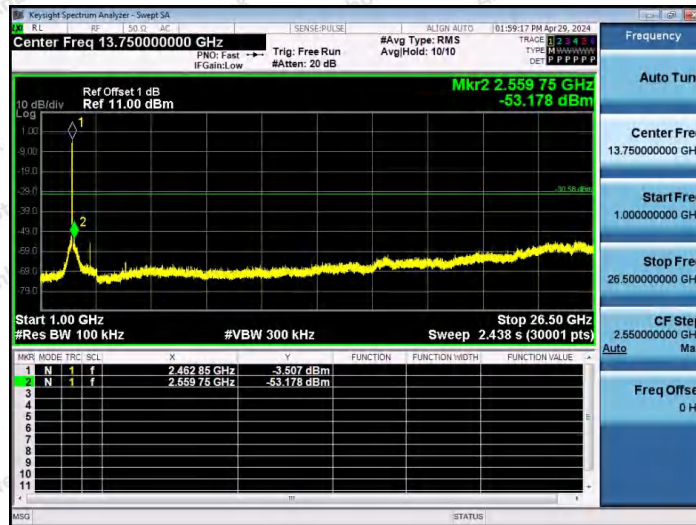




11N20SISO-Ant1-2462-0~Reference-PASS



11N20SISO-Ant1-2462-30~1000-PASS



11N20SISO-Ant1-2462-1000~26500-PASS

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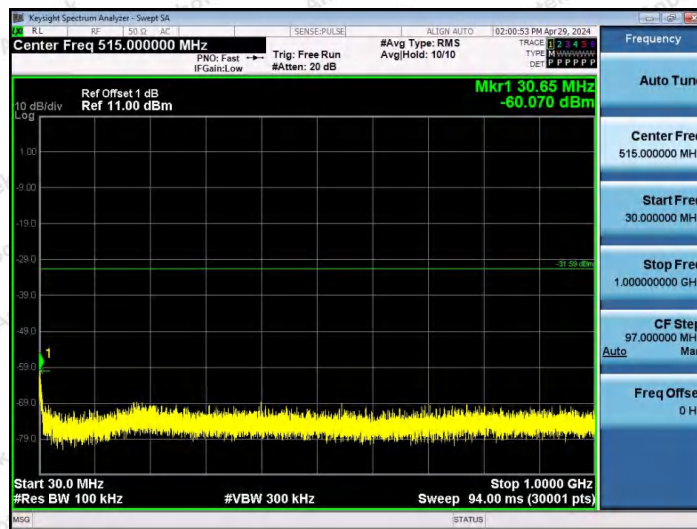
Hotline 400-003-0500  
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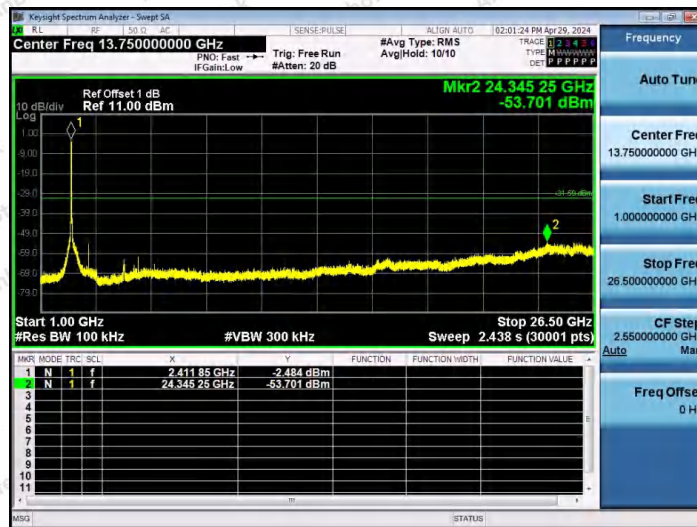




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11N40SISO-Ant1-2422-30~1000-PASS



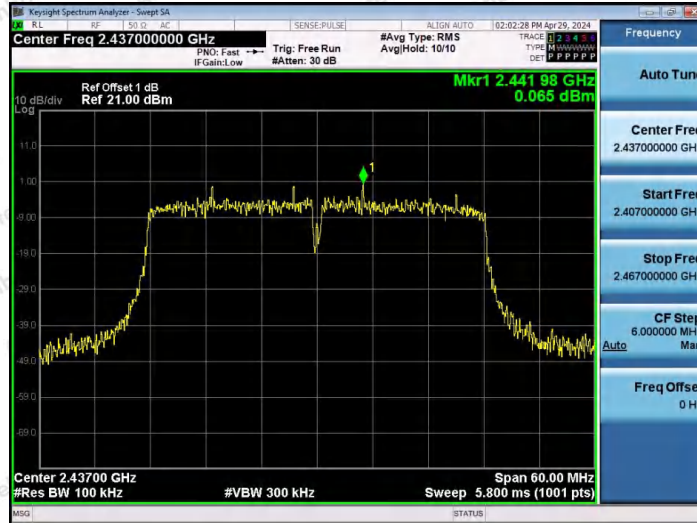
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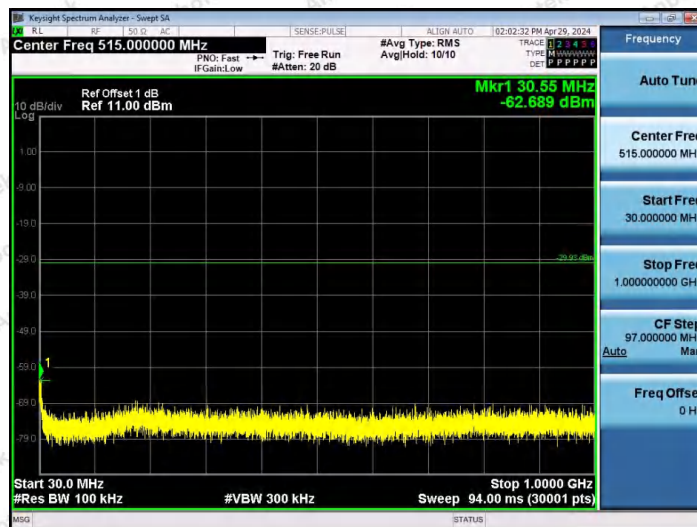
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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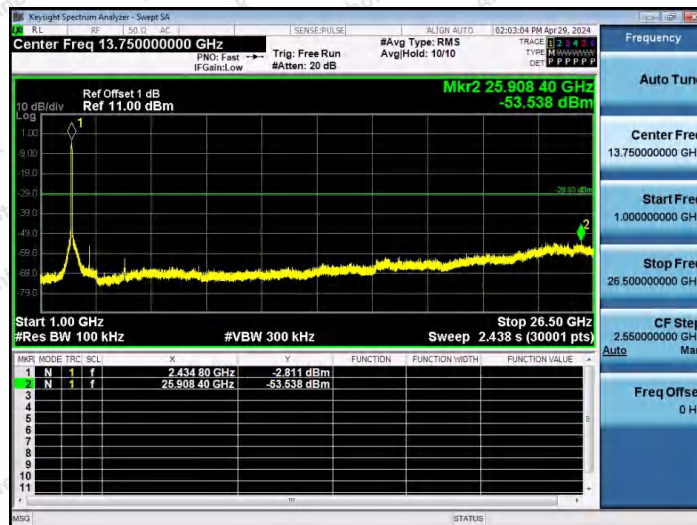




11N40SISO-Ant1-2437-0~Reference-PASS



11N40SISO-Ant1-2437-30~1000-PASS



11N40SISO-Ant1-2437-1000~26500-PASS

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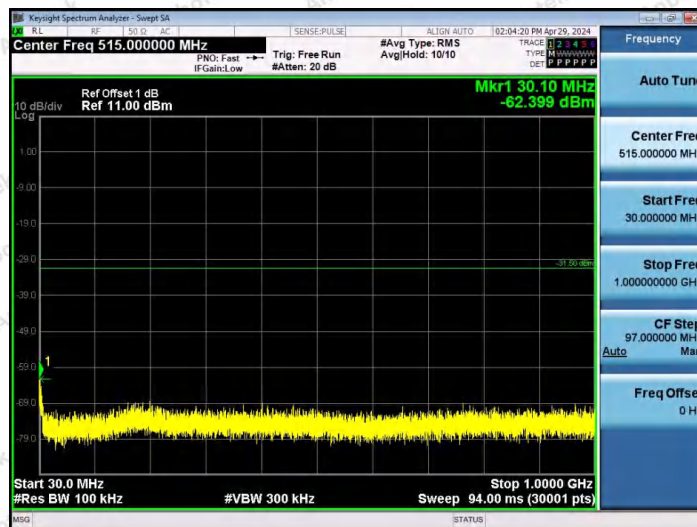
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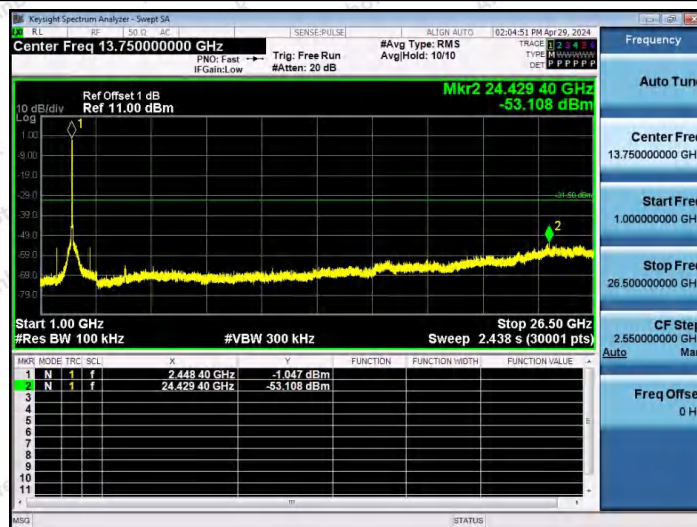




11N40SISO-Ant1-2452-0~Reference-PASS



11N40SISO-Ant1-2452-30~1000-PASS



11N40SISO-Ant1-2452-1000~26500-PASS

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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	19.00	19.00	100.00	0.00
11B	Ant1	2437	19.00	19.00	100.00	0.00
11B	Ant1	2462	19.00	19.00	100.00	0.00
11G	Ant1	2412	5.49	5.50	99.82	0.01
11G	Ant1	2437	5.49	5.52	99.46	0.02
11G	Ant1	2462	5.48	5.51	99.46	0.02
11N20SISO	Ant1	2412	5.07	5.10	99.41	0.03
11N20SISO	Ant1	2437	5.07	5.10	99.41	0.03
11N20SISO	Ant1	2462	5.07	5.10	99.41	0.03
11N40SISO	Ant1	2422	2.47	2.50	98.80	0.05
11N40SISO	Ant1	2437	2.47	2.49	99.20	0.03
11N40SISO	Ant1	2452	2.47	2.50	98.80	0.05

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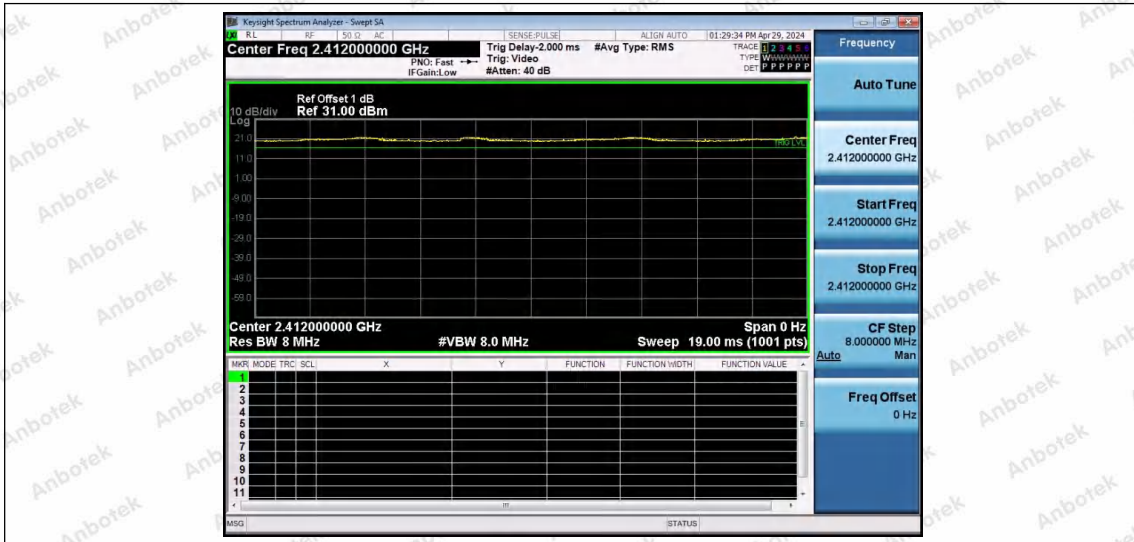


Hotline  
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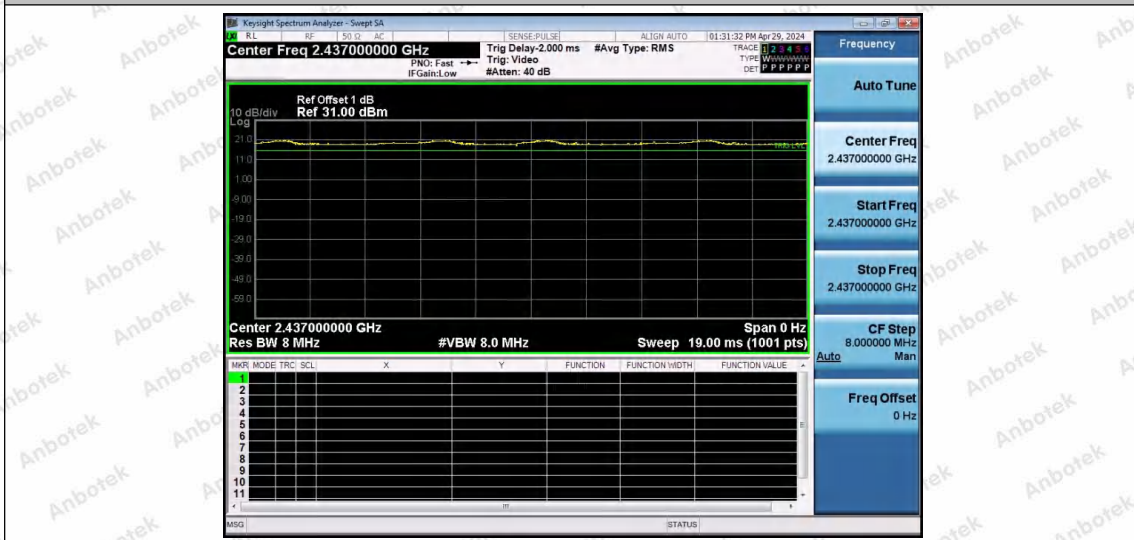




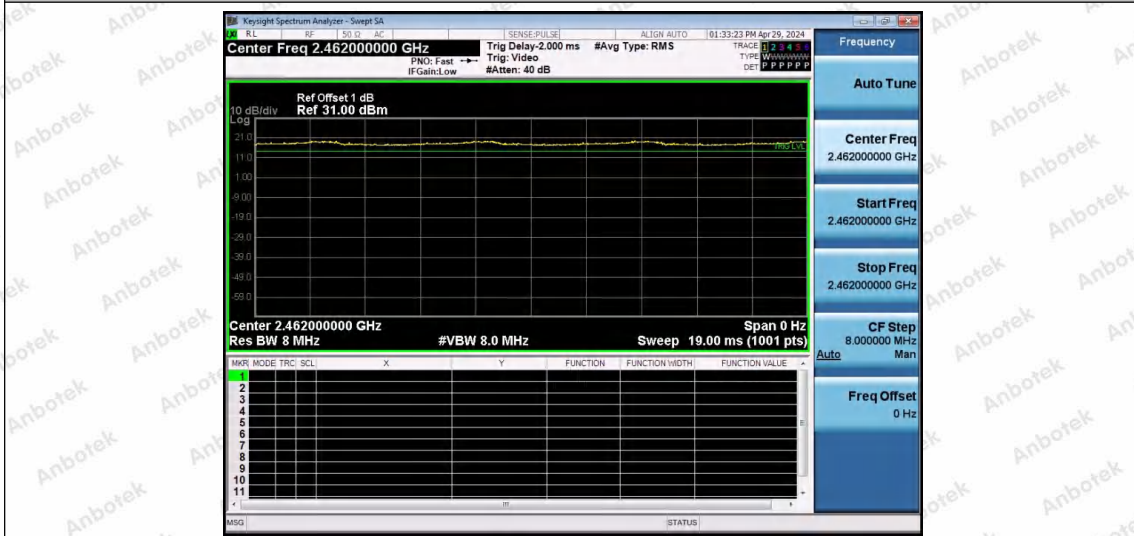
## Test Graphs



NTNV-11B-Ant1-2412



NTNV-11B-Ant1-2437



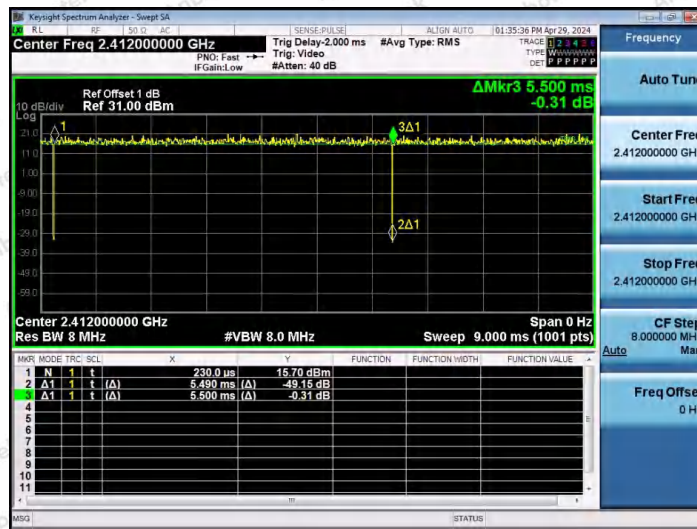
### Shenzhen Anbotek Compliance Laboratory Limited

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

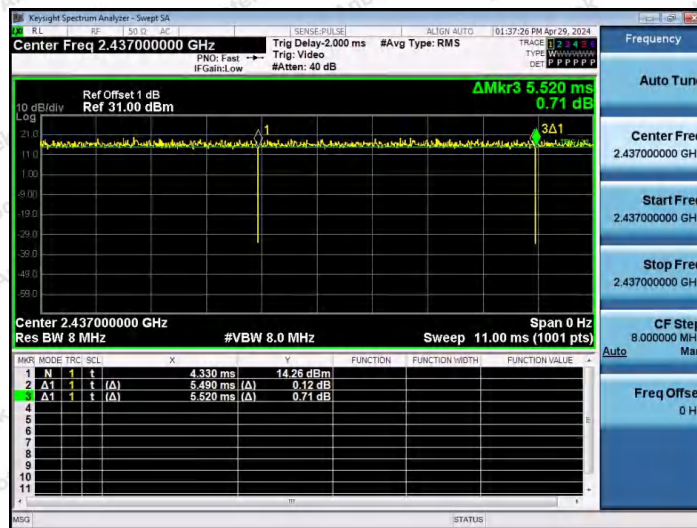
Hotline 400-003-0500  
 www.anbotek.com.cn



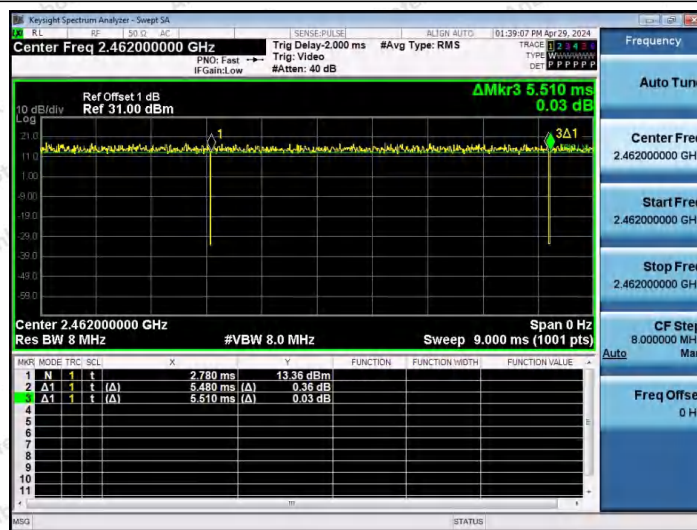
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NTNV-11G-Ant1-2412



NTNV-11G-Ant1-2437



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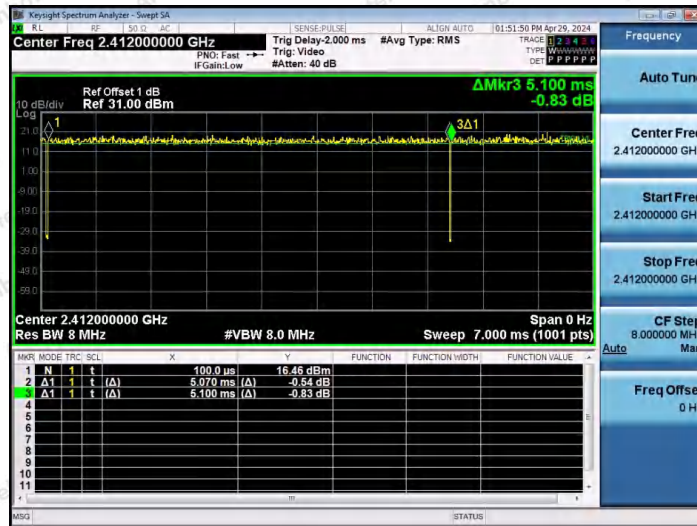
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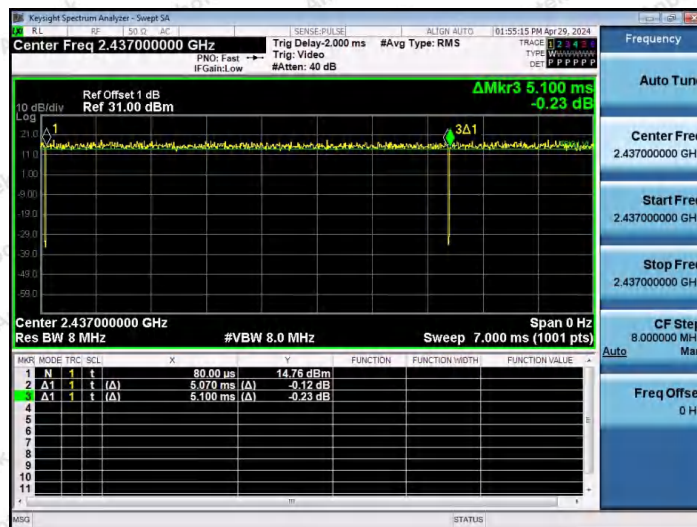
Hotline 400-003-0500  
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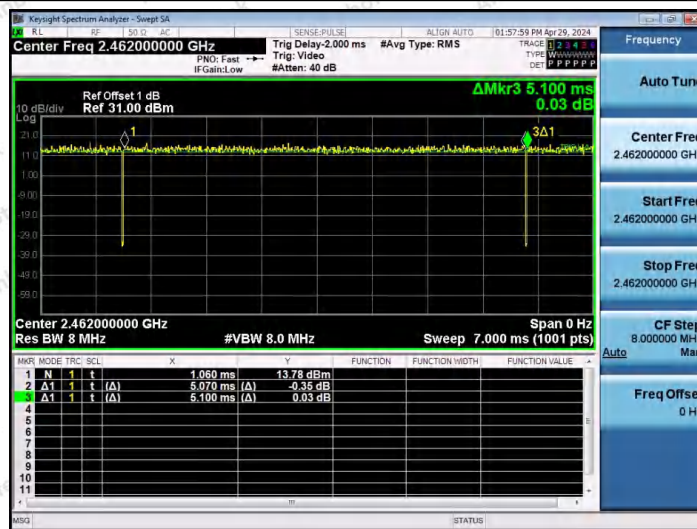




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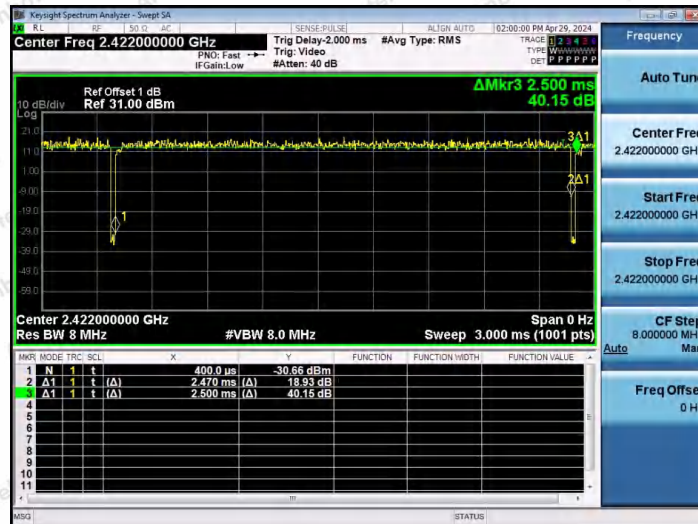
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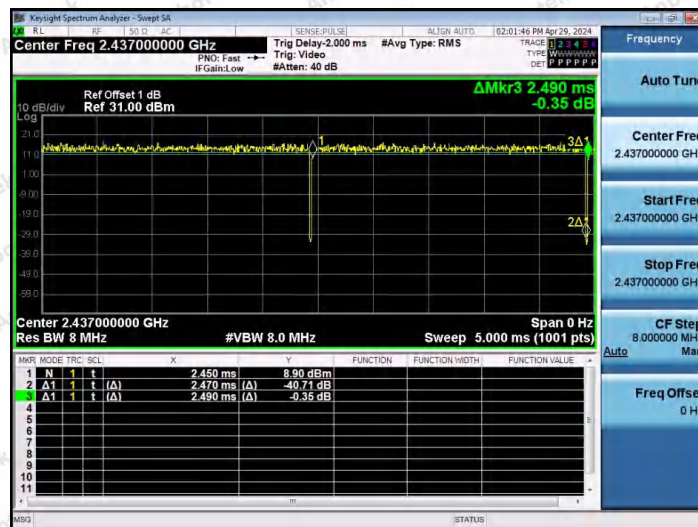
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.  
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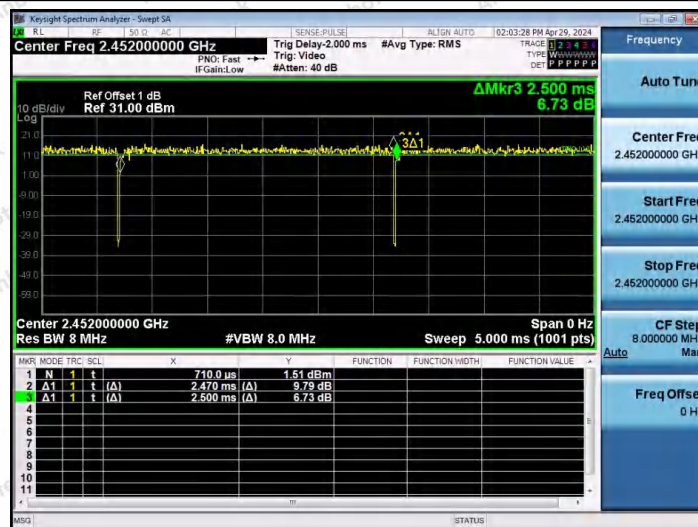




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NTNV-11N40SISO-Ant1-2437



NTNV-11N40SISO-Ant1-2452

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