

Appendix Test Data

Report No.:	18220WC40044302	Test Sample No.:	1-2-2
Start Test Date:	2024.3.16	Finish Test Date:	2024.3.16
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	24℃	Relative Humidity:	49%
Pressure:	101kPa		

Appendix A: 6dB Bandwidth

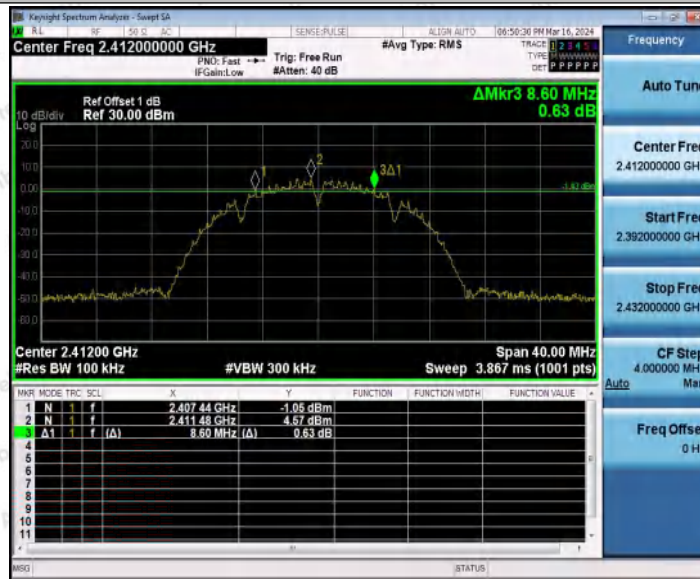
Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.600	2407.440	2416.040	0.5	PASS
		2437	8.600	2432.440	2441.040	0.5	PASS
		2462	9.040	2457.480	2466.520	0.5	PASS
11G	Ant1	2412	16.360	2403.800	2420.160	0.5	PASS
		2437	16.320	2428.840	2445.160	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.600	2403.200	2420.800	0.5	PASS
		2437	17.560	2428.200	2445.760	0.5	PASS
		2462	17.600	2453.200	2470.800	0.5	PASS



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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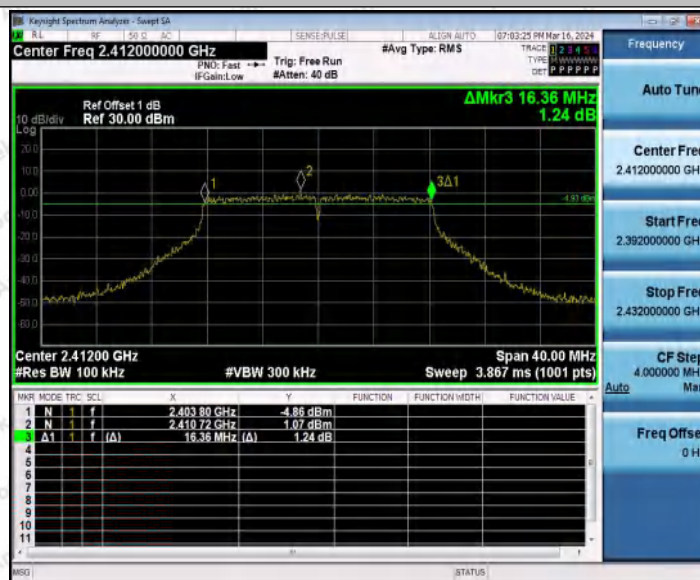


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11G_Ant1_2412



11G_Ant1_2437



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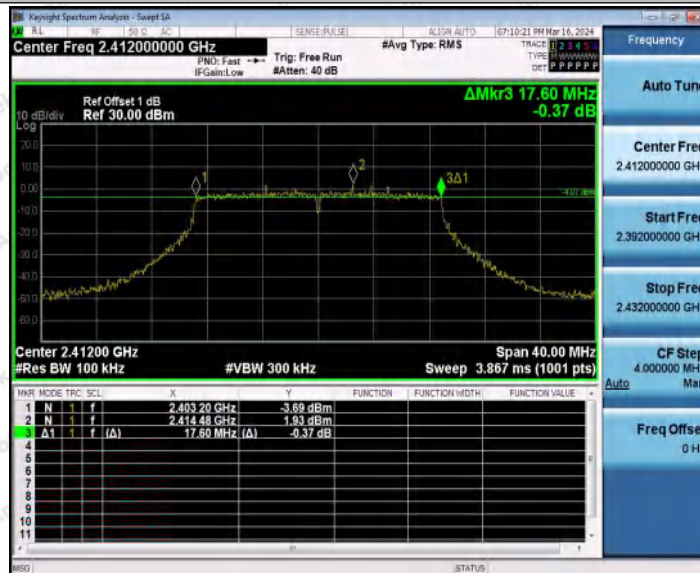
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

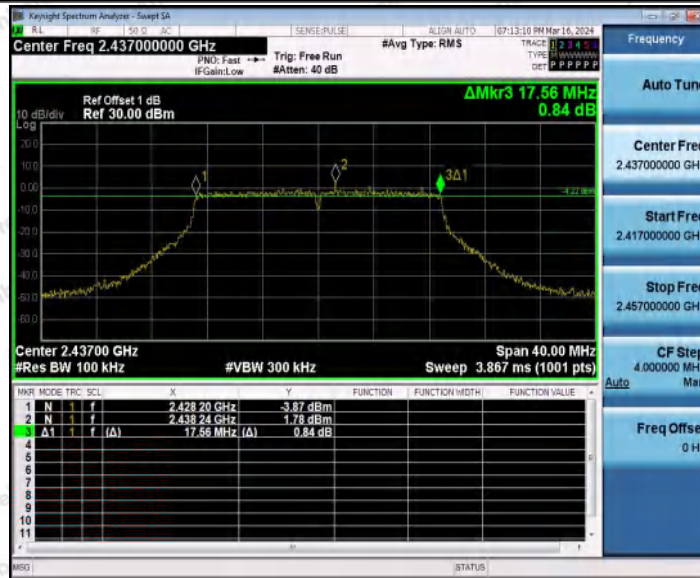
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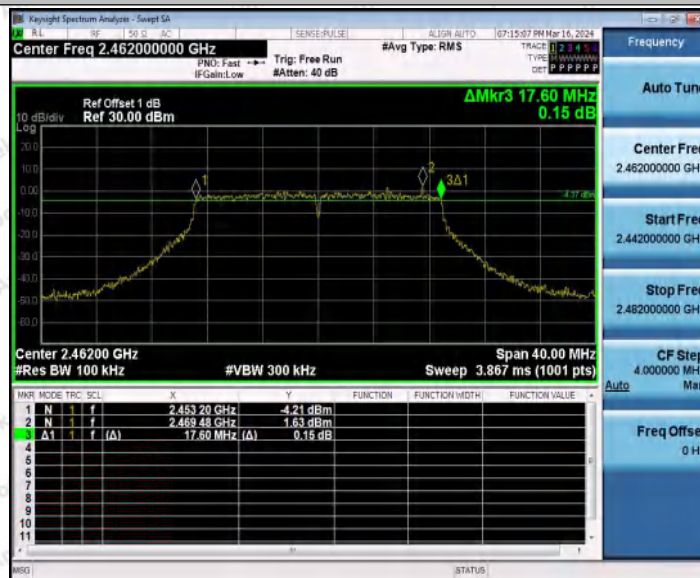


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11N20SISO_Ant1_2462



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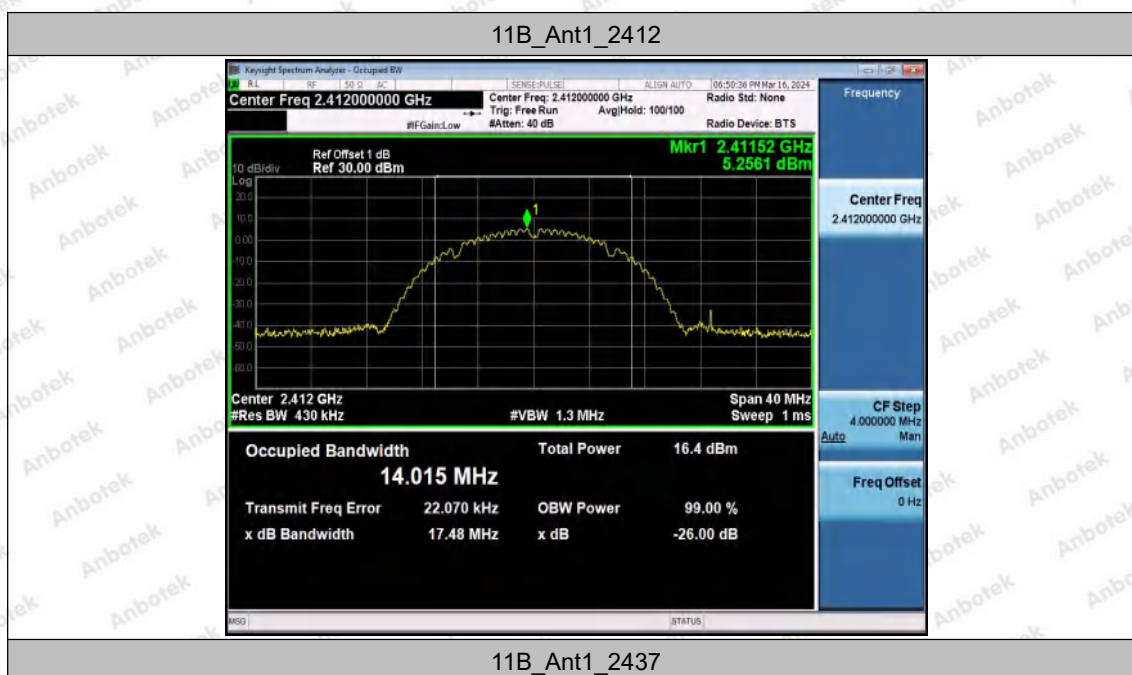


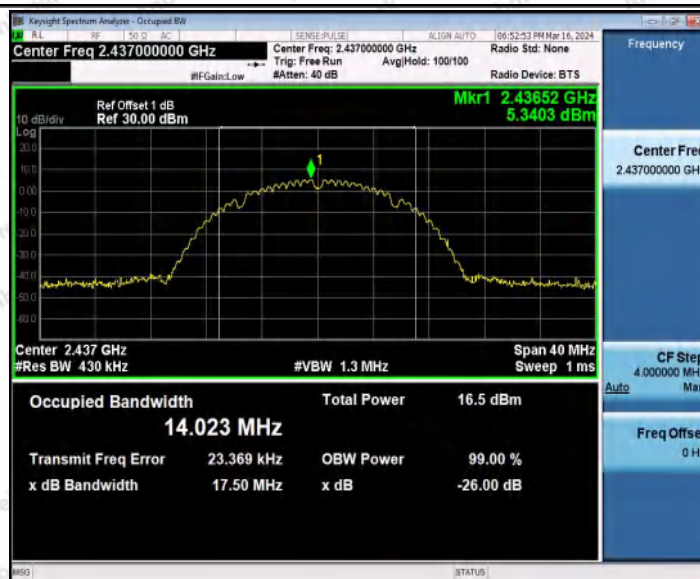
Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.015	2405.0146	2419.0296	---	---
		2437	14.023	2430.0119	2444.0349	---	---
		2462	14.014	2455.0205	2469.0345	---	---
11G	Ant1	2412	17.150	2403.3955	2420.5455	---	---
		2437	17.226	2428.3994	2445.6254	---	---
		2462	17.219	2453.4027	2470.6217	---	---
11N20SISO	Ant1	2412	18.065	2403.0056	2421.0706	---	---
		2437	18.245	2427.8759	2446.1209	---	---
		2462	18.283	2452.8862	2471.1692	---	---

Test Graphs

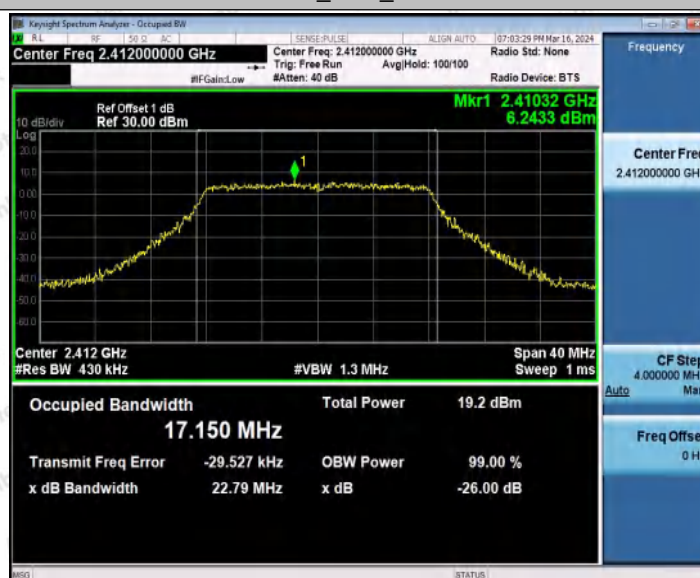




11B_Ant1_2462



11G_Ant1_2412



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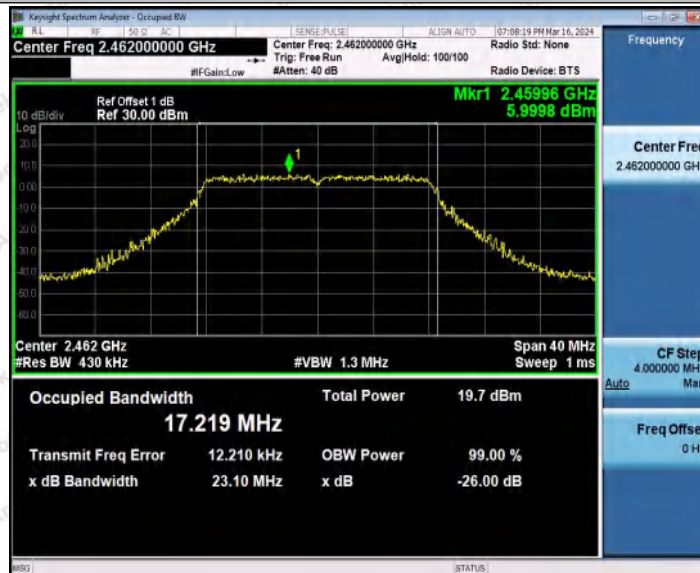
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11G_Ant1_2437



11G_Ant1_2462



11N20SISO_Ant1_2412

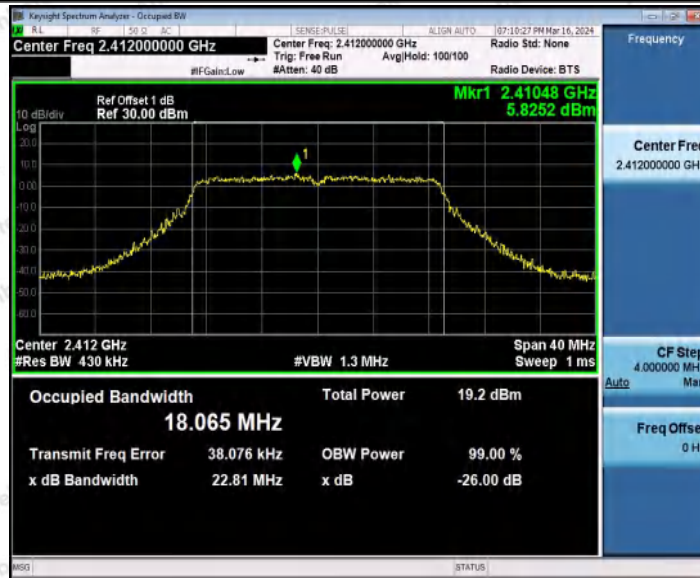
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11N20SISO_Ant1_2437



11N20SISO_Ant1_2462



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Appendix C: Maximum conducted output power

Test Result Average

Test Mode	Antenna	Frequency [MHz]	Set Power	Average power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11B	Ant1	2412	---	13.32	99.04	0.04	13.36	≤30.0 0	1.89	15.25	≤36.00	PASS
		2437	---	13.45	98.89	0.05	13.50	≤30.0 0	1.89	15.39	≤36.00	PASS
		2462	---	13.67	98.96	0.05	13.72	≤30.0 0	1.89	15.61	≤36.00	PASS
11G	Ant1	2412	---	12.91	94.06	0.27	13.18	≤30.0 0	1.89	15.07	≤36.00	PASS
		2437	---	13.11	94.09	0.26	13.37	≤30.0 0	1.89	15.26	≤36.00	PASS
		2462	---	13.31	94.06	0.27	13.58	≤30.0 0	1.89	15.47	≤36.00	PASS
11N20SI SO	Ant1	2412	---	12.82	93.66	0.28	13.10	≤30.0 0	1.89	14.99	≤36.00	PASS
		2437	---	13.14	93.66	0.28	13.42	≤30.0 0	1.89	15.31	≤36.00	PASS
		2462	---	13.36	93.20	0.31	13.67	≤30.0 0	1.89	15.56	≤36.00	PASS

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



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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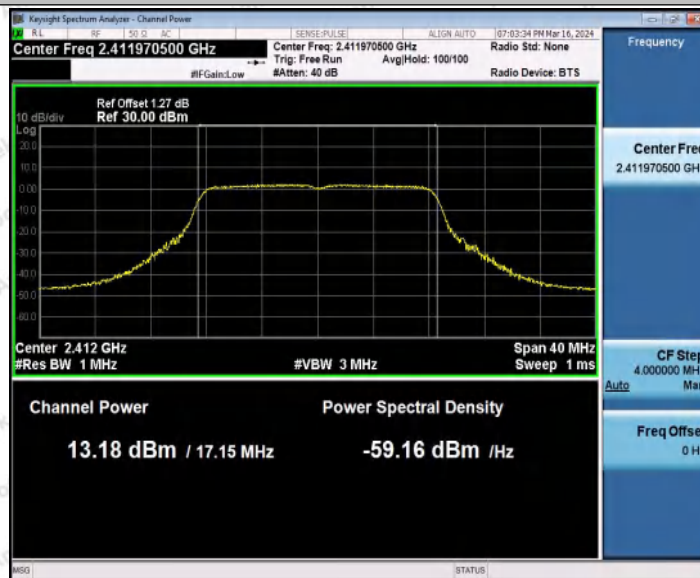


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11G_Ant1_2412



11G_Ant1_2437

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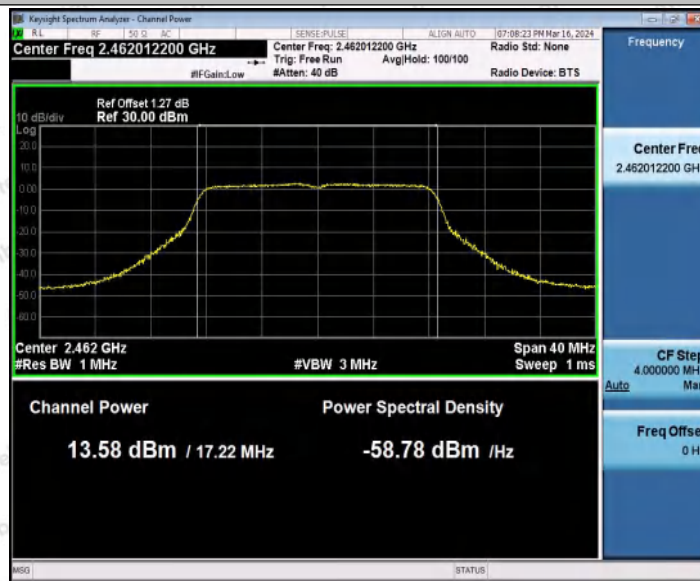
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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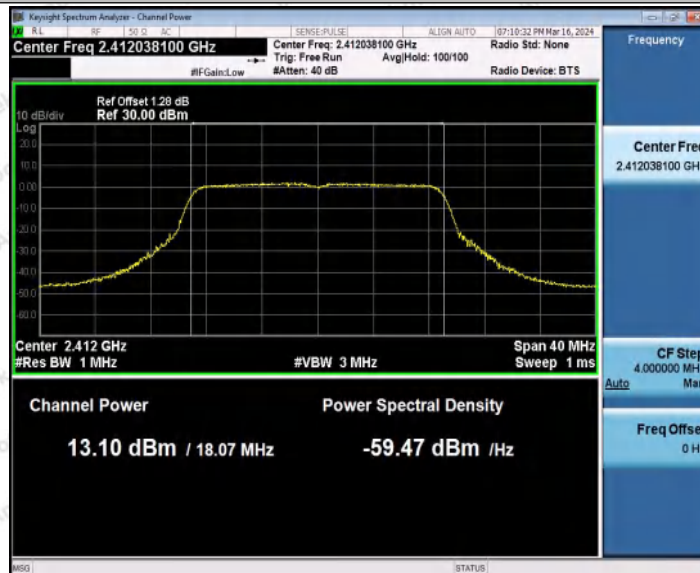
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

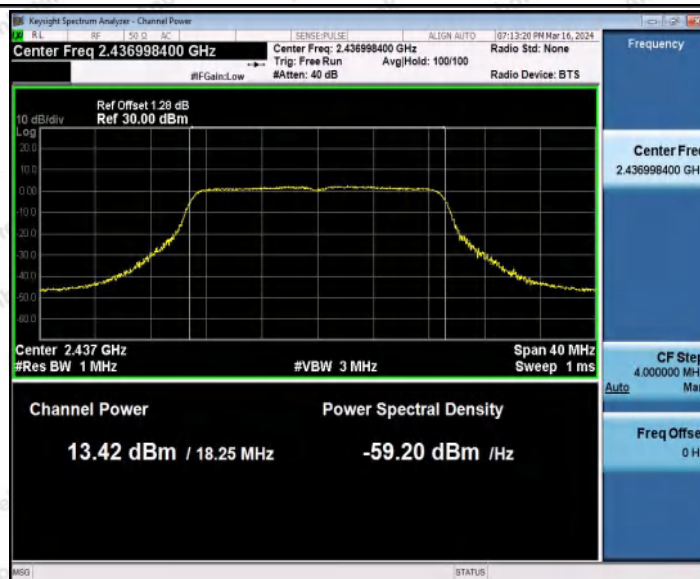
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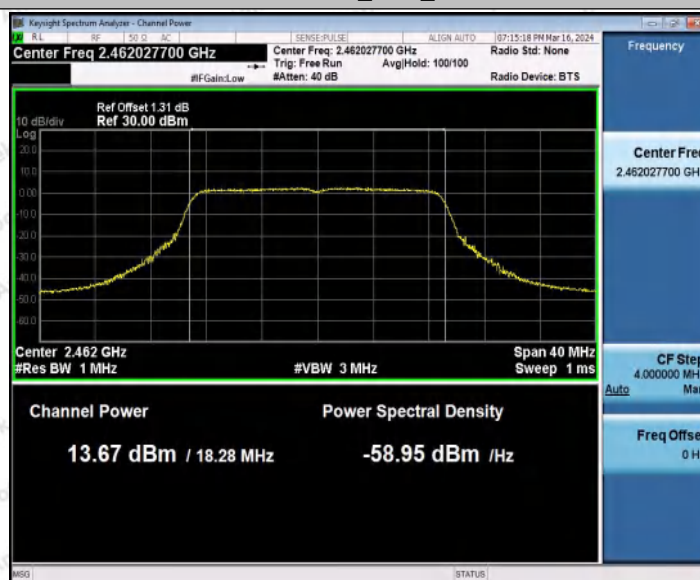


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11N20SISO_Ant1_2462



Maximum conducted output power



Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/30kHz]	Result [dBm/3kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]
11B	Ant1	2412	-7.96	-17.96	≤8.00	PASS
		2437	-8.02	-18.02	≤8.00	PASS
		2462	-7.84	-17.84	≤8.00	PASS
11G	Ant1	2412	-10.88	-20.88	≤8.00	PASS
		2437	-10.37	-20.37	≤8.00	PASS
		2462	-10.56	-20.56	≤8.00	PASS
11N20SISO	Ant1	2412	-11.21	-21.21	≤8.00	PASS
		2437	-10.39	-20.39	≤8.00	PASS
		2462	-10.26	-20.26	≤8.00	PASS

Note:

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



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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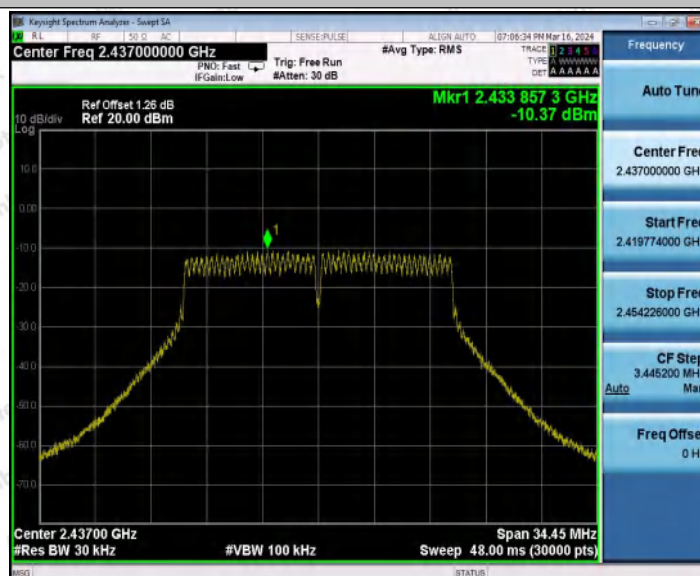




11G_Ant1_2412



11G_Ant1_2437



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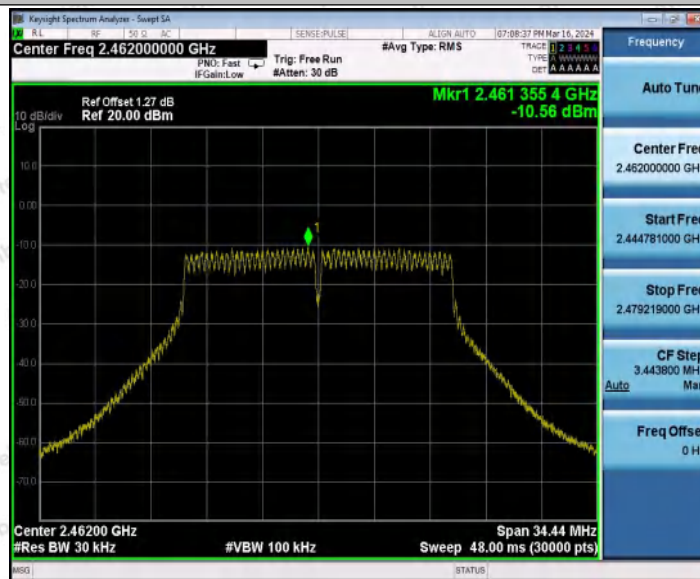
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

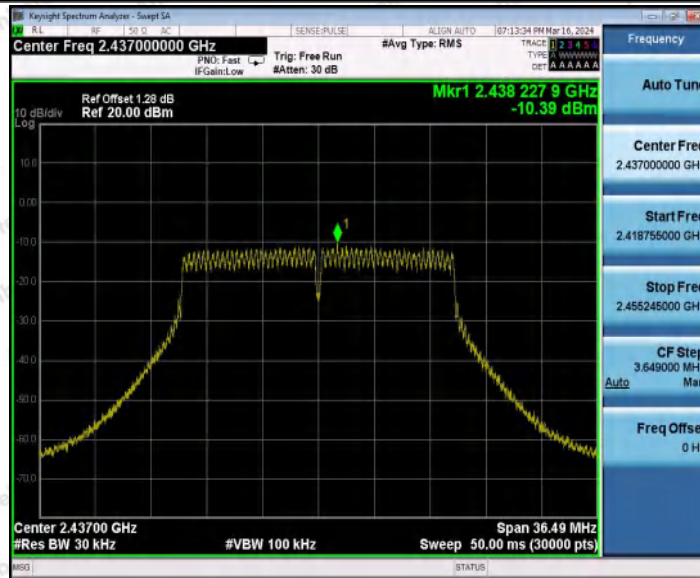
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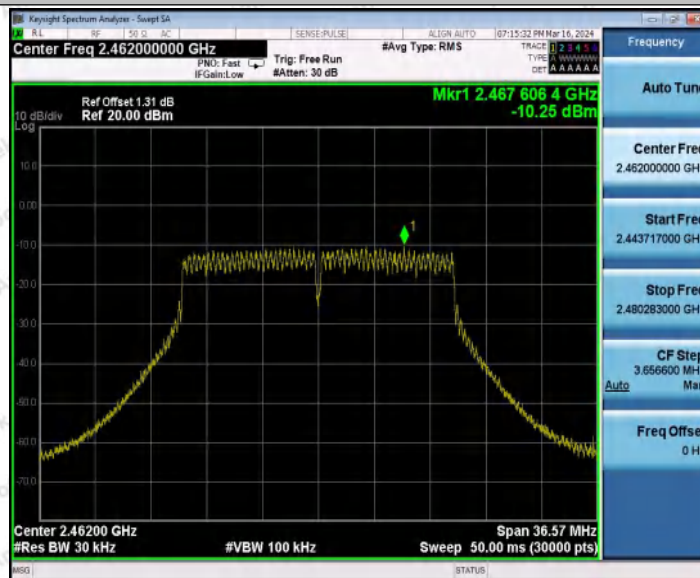


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11N20SISO_Ant1_2462

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Appendix E: Conducted Band edge

Test Result

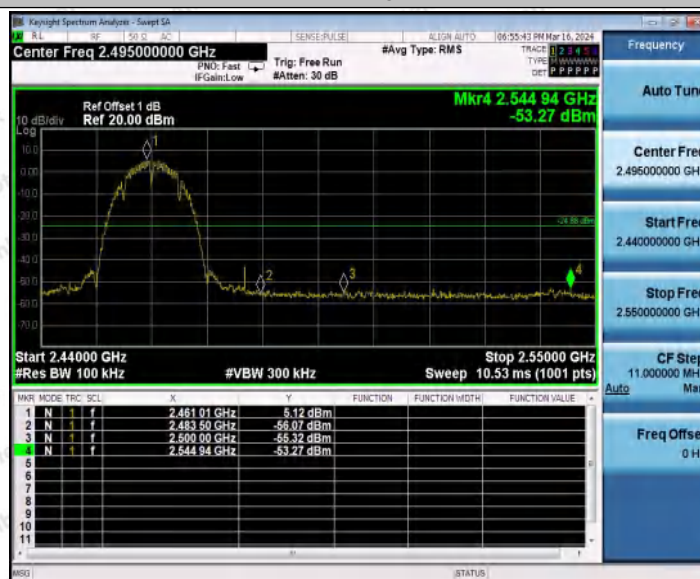
Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	4.54	-45.36	≤-25.46	PASS
		High	2462	5.13	-53.27	≤-24.88	PASS
11G	Ant1	Low	2412	2.31	-32.73	≤-27.69	PASS
		High	2462	2.72	-50.51	≤-27.28	PASS
11N20SISO	Ant1	Low	2412	1.89	-33.55	≤-28.11	PASS
		High	2462	2.75	-50.39	≤-27.25	PASS

Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

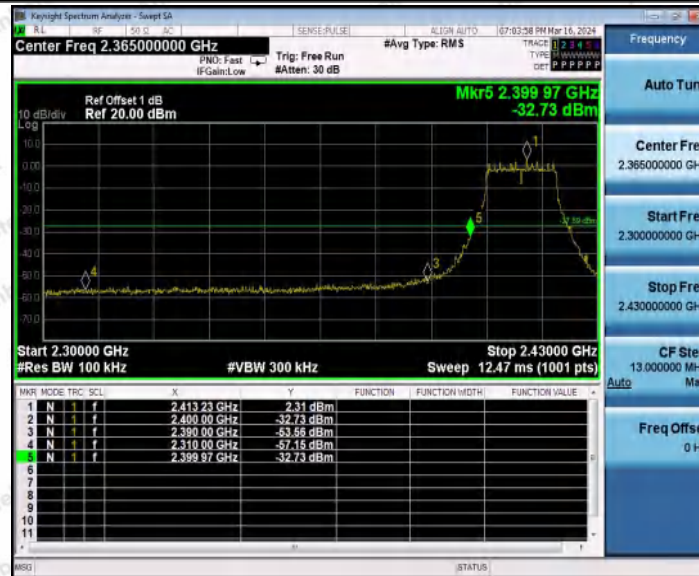
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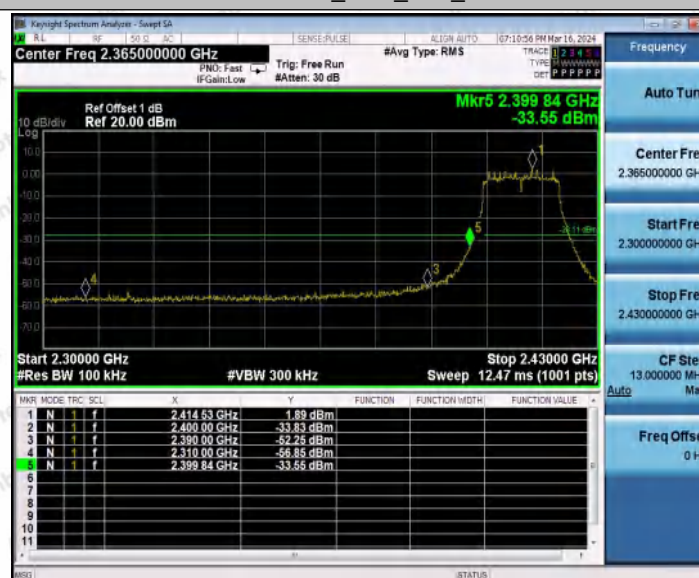




11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412

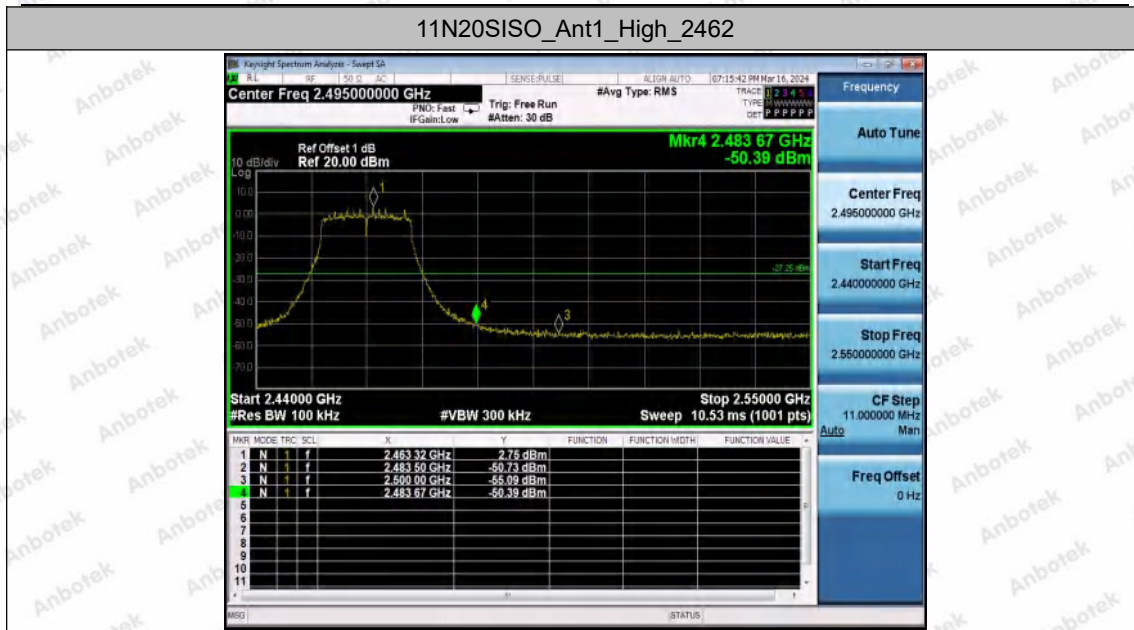


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Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	5.14	5.14	---	PASS
			30~1000	5.14	-66.08	≤-24.86	PASS
			1000~26500	5.14	-53.51	≤-24.86	PASS
		2437	Reference	5.14	5.14	---	PASS
			30~1000	5.14	-67.28	≤-24.86	PASS
			1000~26500	5.14	-52.59	≤-24.86	PASS
		2462	Reference	5.54	5.54	---	PASS
			30~1000	5.54	-66.99	≤-24.46	PASS
			1000~26500	5.54	-51.73	≤-24.46	PASS
11G	Ant1	2412	Reference	2.31	2.31	---	PASS
			30~1000	2.31	-67.77	≤-27.69	PASS
			1000~26500	2.31	-53.72	≤-27.69	PASS
		2437	Reference	2.28	2.28	---	PASS
			30~1000	2.28	-66.98	≤-27.72	PASS
			1000~26500	2.28	-53.85	≤-27.72	PASS
		2462	Reference	2.83	2.83	---	PASS
			30~1000	2.83	-67.54	≤-27.17	PASS
			1000~26500	2.83	-53.51	≤-27.17	PASS
11N20SISO	Ant1	2412	Reference	2.30	2.30	---	PASS
			30~1000	2.30	-67.28	≤-27.7	PASS
			1000~26500	2.30	-53.96	≤-27.7	PASS
		2437	Reference	2.52	2.52	---	PASS
			30~1000	2.52	-67.24	≤-27.48	PASS
			1000~26500	2.52	-53.19	≤-27.48	PASS
		2462	Reference	2.64	2.64	---	PASS
			30~1000	2.64	-66.89	≤-27.36	PASS
			1000~26500	2.64	-53.93	≤-27.36	PASS

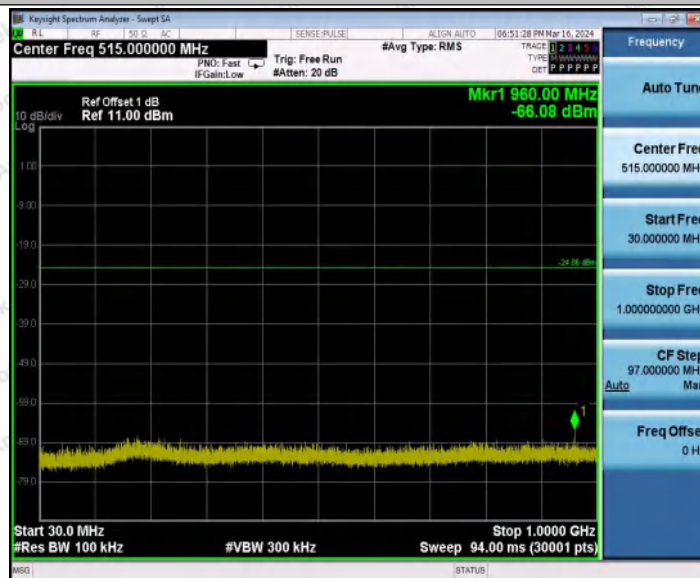


Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

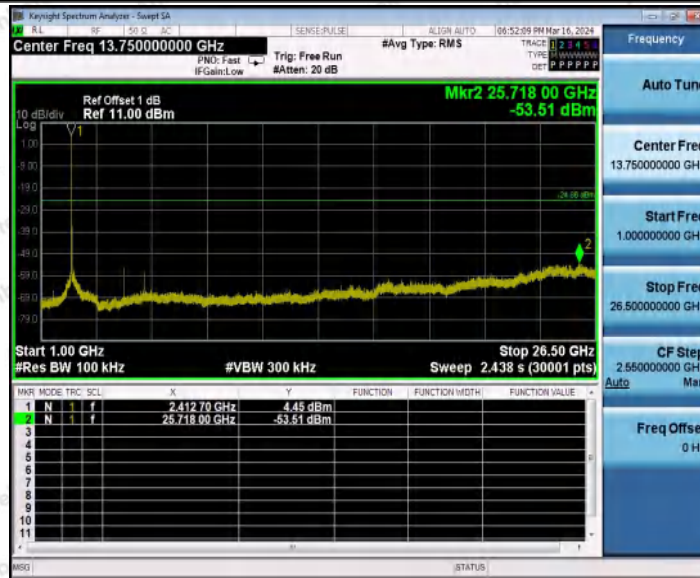
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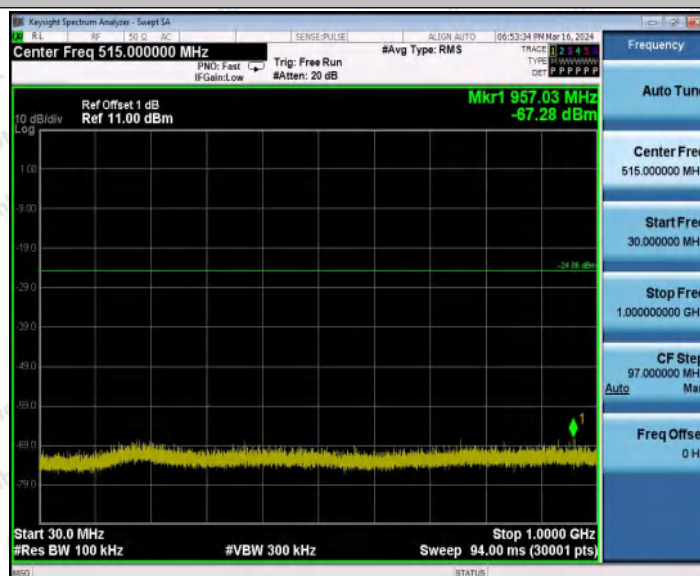




11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



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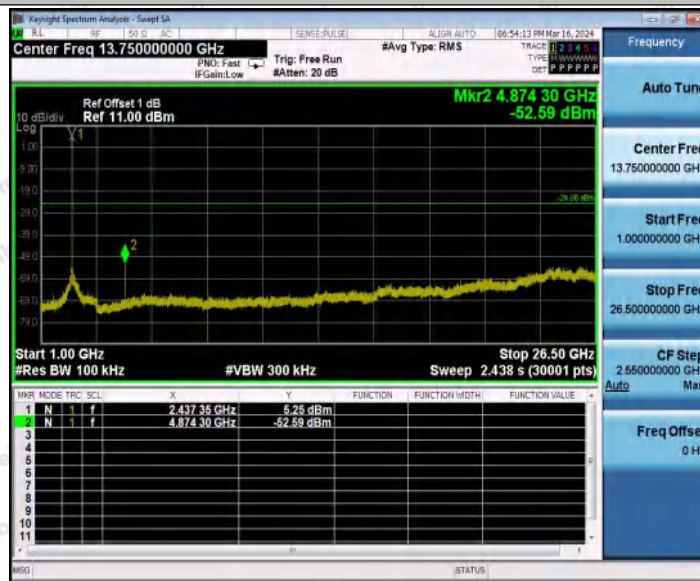
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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000

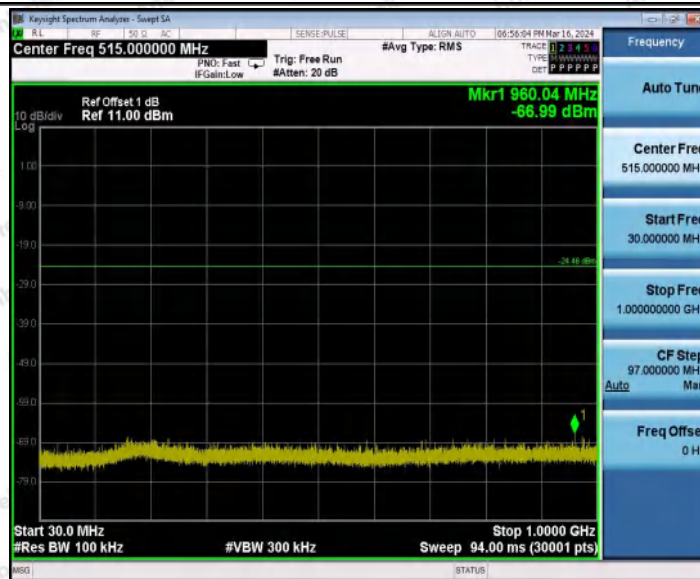
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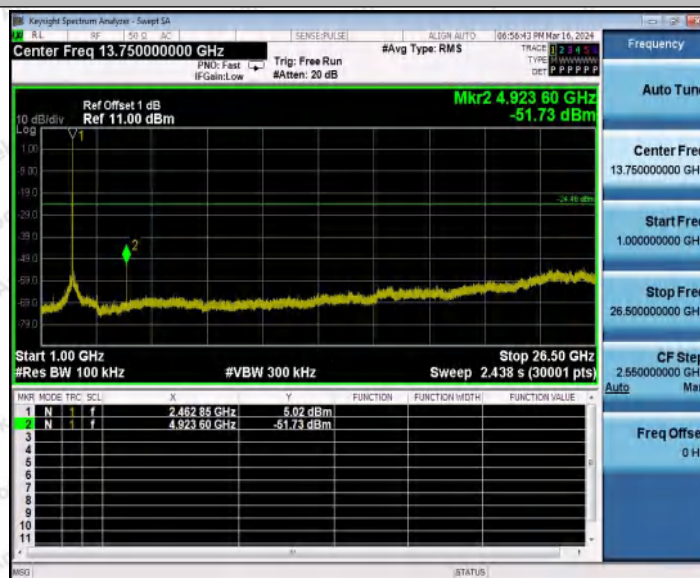


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11B_Ant1_2462_1000~26500



11G_Ant1_2412_0~Reference



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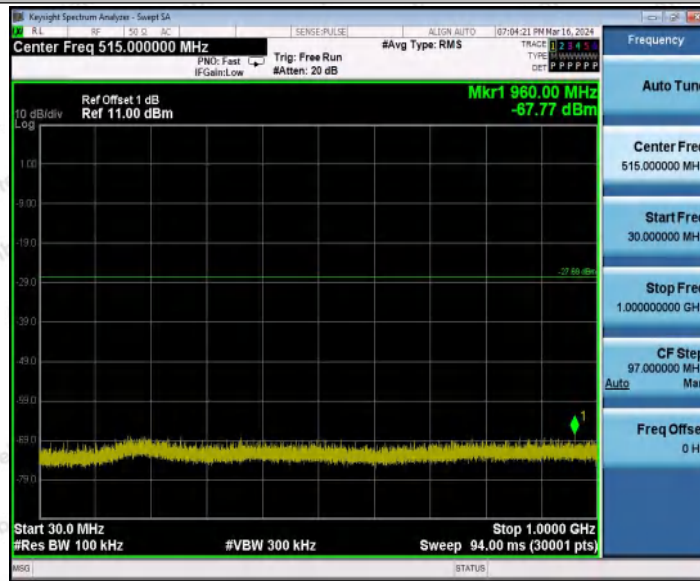
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



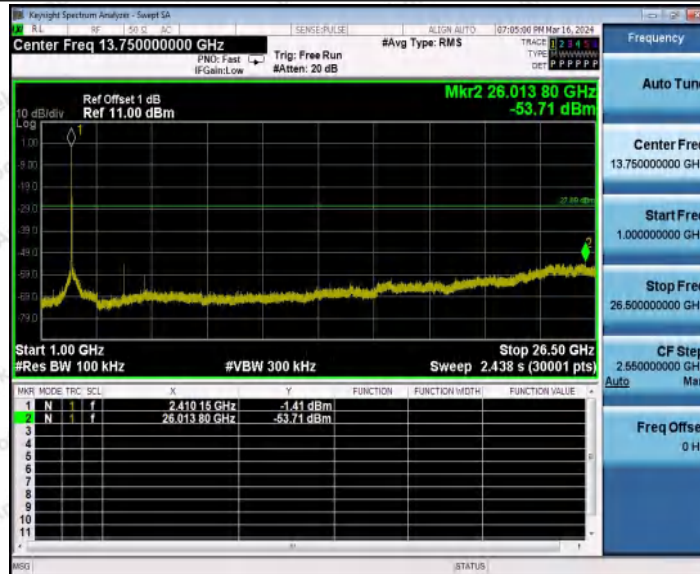
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11G_Ant1_2412_30~1000



11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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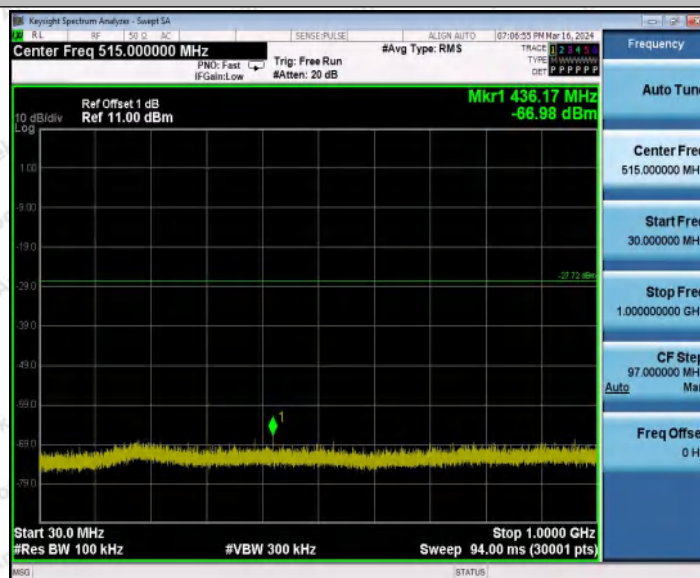
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

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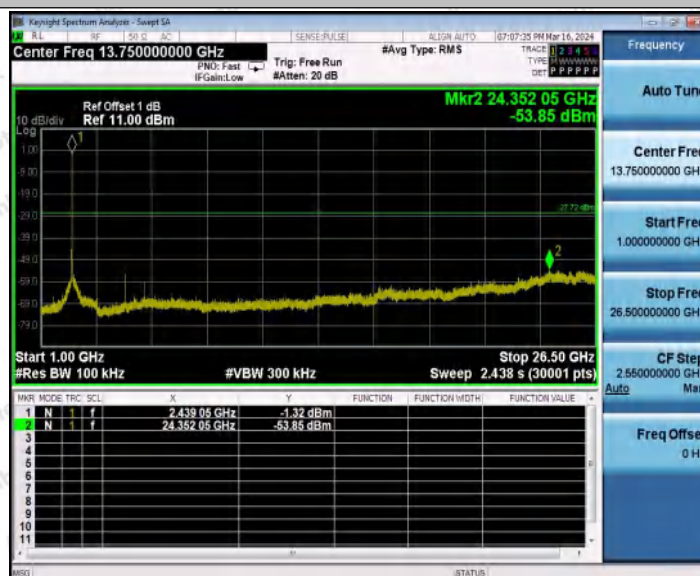




11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



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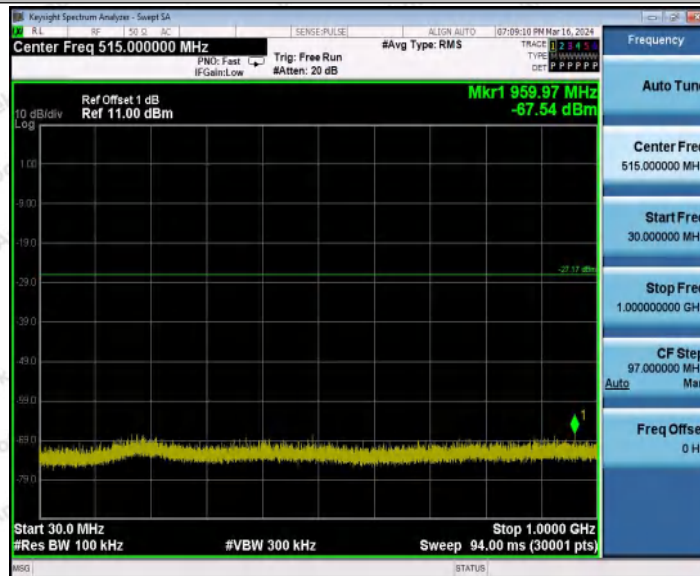
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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000



11G_Ant1_2462_1000~26500

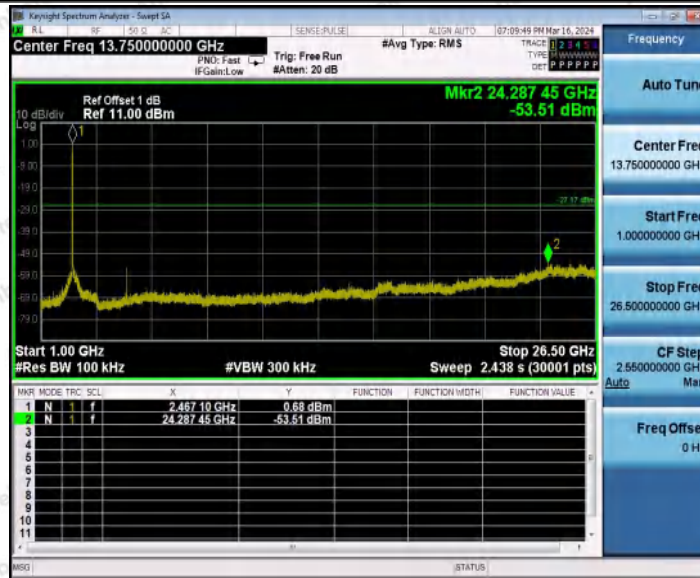
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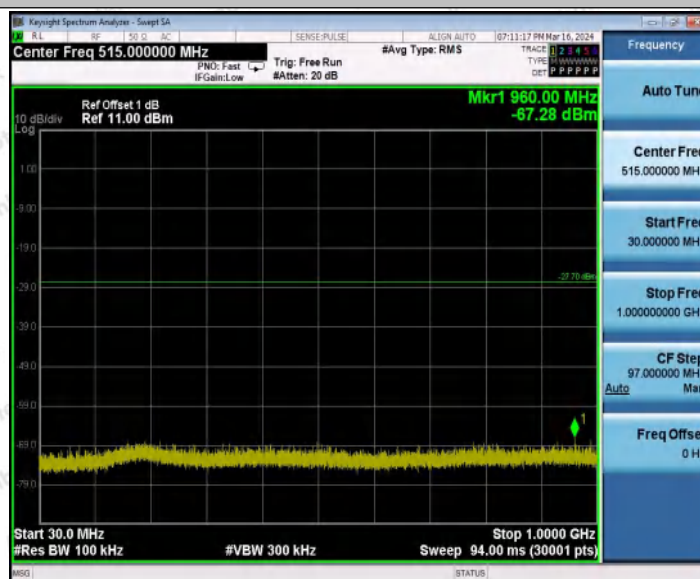




11N20SISO_Ant1_2412_0~Reference



11N20SISO_Ant1_2412_30~1000



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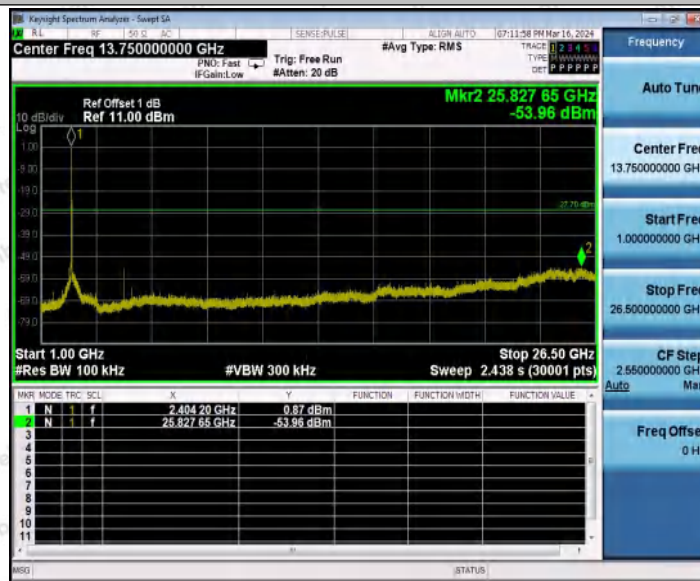
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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11N20SISO_Ant1_2412_1000~26500



11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000

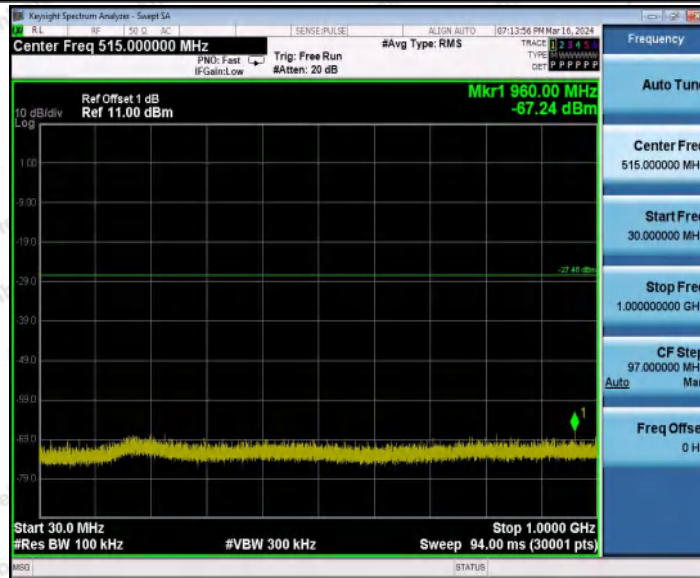
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

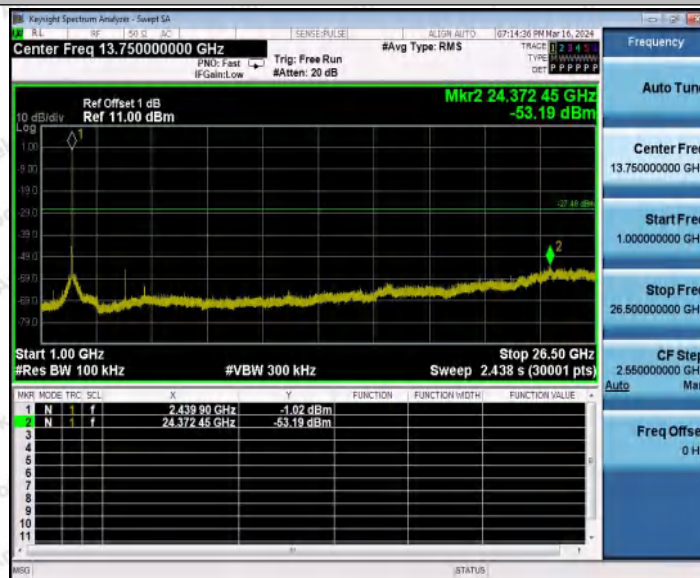


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11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



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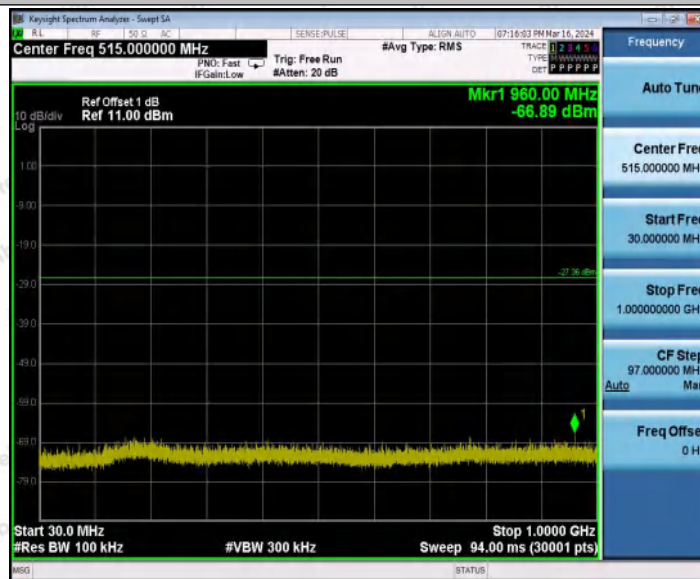
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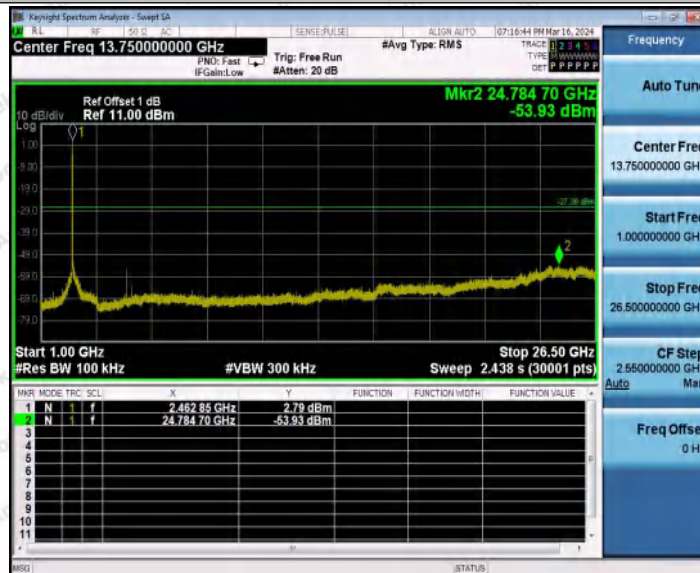
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11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



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Appendix G: Duty Cycle

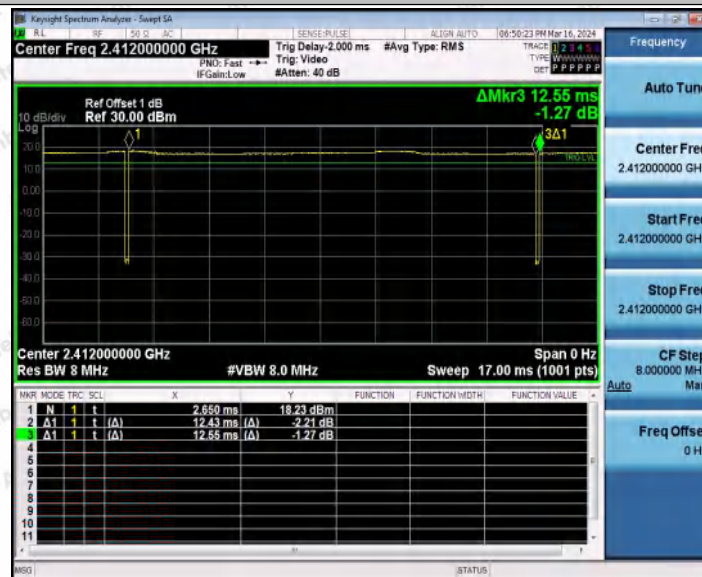
Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	12.43	12.55	99.04	0.04
		2437	12.42	12.56	98.89	0.05
		2462	12.42	12.55	98.96	0.05
11G	Ant1	2412	2.06	2.19	94.06	0.27
		2437	2.07	2.20	94.09	0.26
		2462	2.06	2.19	94.06	0.27
11N20SISO	Ant1	2412	1.92	2.05	93.66	0.28
		2437	1.92	2.05	93.66	0.28
		2462	1.92	2.06	93.20	0.31

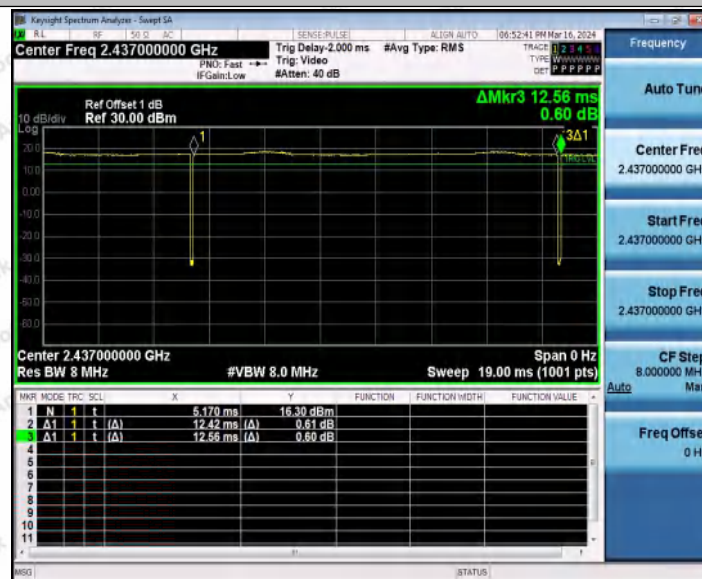


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

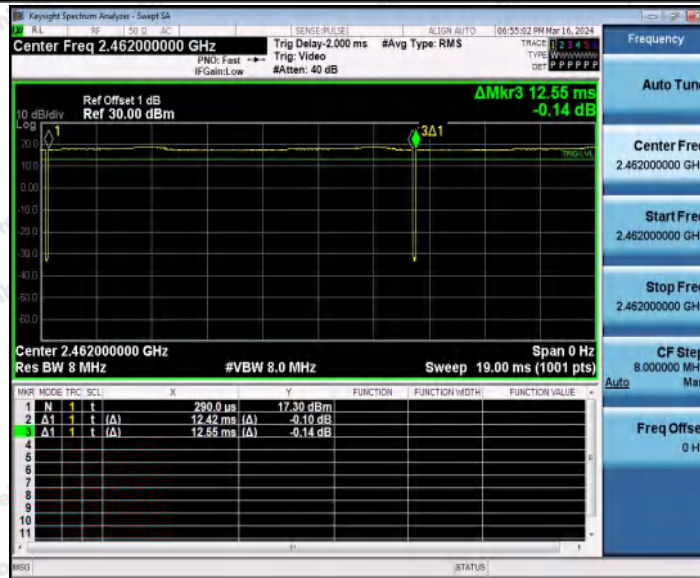
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 Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

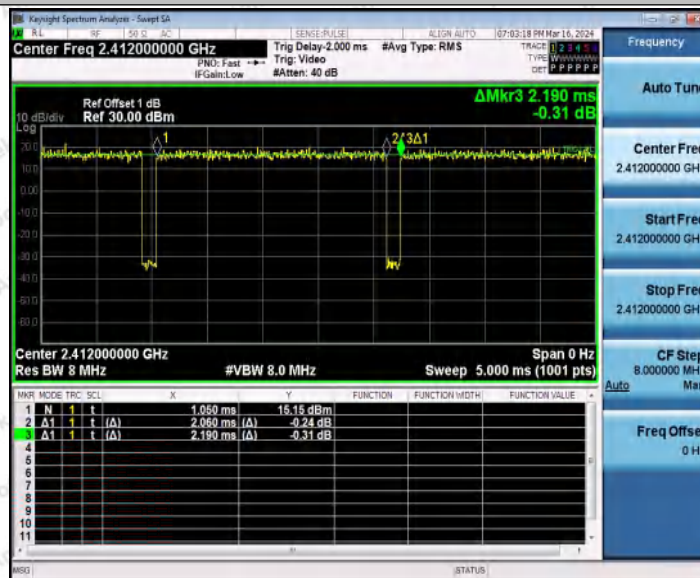


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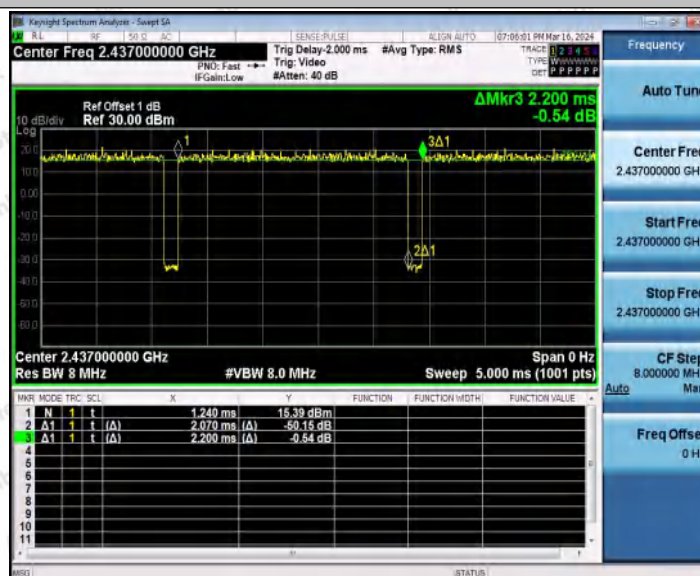




11G_Ant1_2412



11G_Ant1_2437



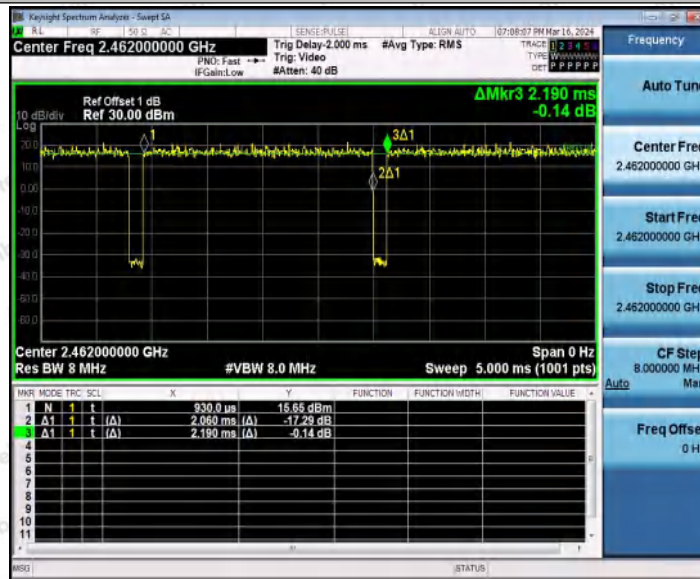
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

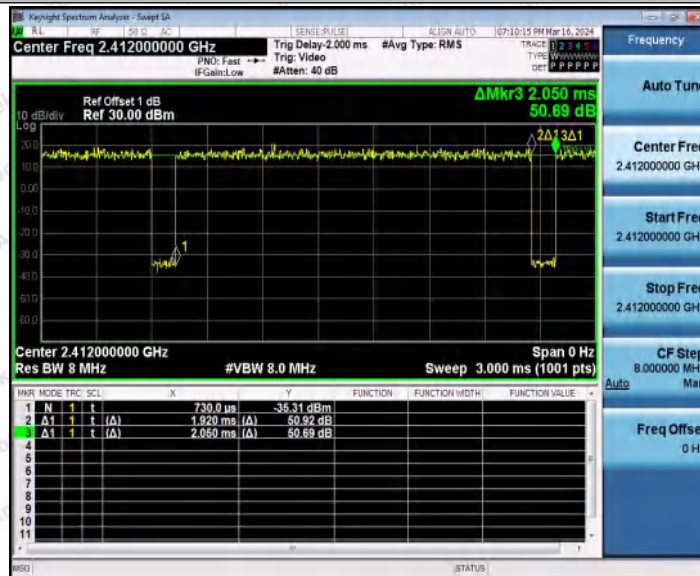
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11G_Ant1_2462



11N20SISO_Ant1_2412



11N20SISO_Ant1_2437

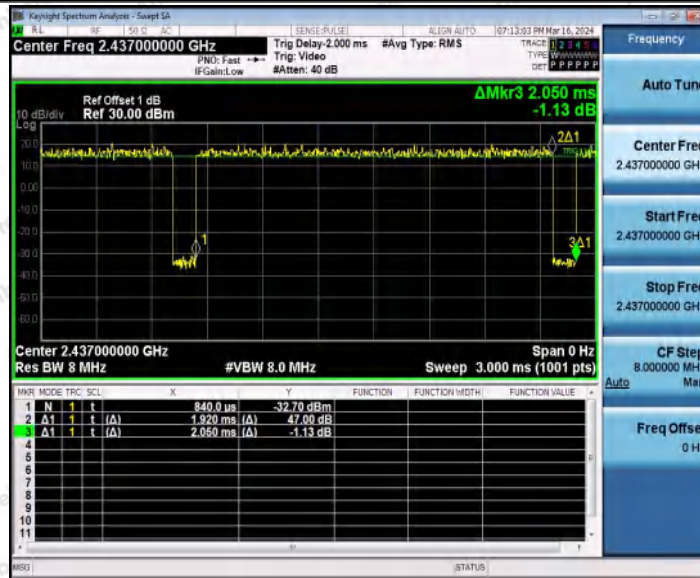
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

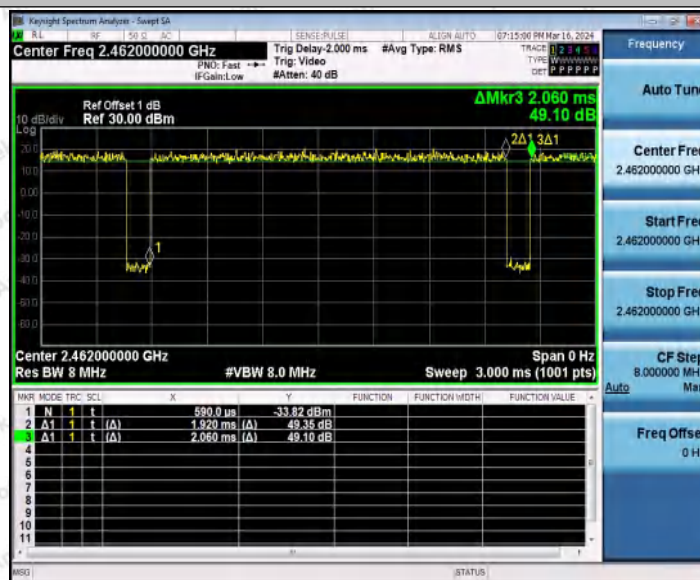


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11N20SISO_Ant1_2462



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