

Appendix Test Data

Report No.:	18220WC20258001	Test Sample No.:	1-2-2
Start Test Date:	2022.11.2	Finish Test Date:	2022.11.4
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	47 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.560	2407.200	2416.760	≥0.5	PASS
		2437	8.840	2432.880	2441.720	≥0.5	PASS
		2462	9.360	2457.400	2466.760	≥0.5	PASS
11G	Ant1	2412	16.440	2403.800	2420.240	≥0.5	PASS
		2437	16.440	2428.800	2445.240	≥0.5	PASS
		2462	16.400	2453.800	2470.200	≥0.5	PASS
11N20	Ant1	2412	17.720	2403.120	2420.840	≥0.5	PASS
		2437	17.720	2428.120	2445.840	≥0.5	PASS
		2462	17.720	2453.120	2470.840	≥0.5	PASS
11N40	Ant1	2422	36.120	2404.060	2440.180	≥0.5	PASS
		2437	36.060	2419.120	2455.180	≥0.5	PASS
		2452	36.300	2433.880	2470.180	≥0.5	PASS



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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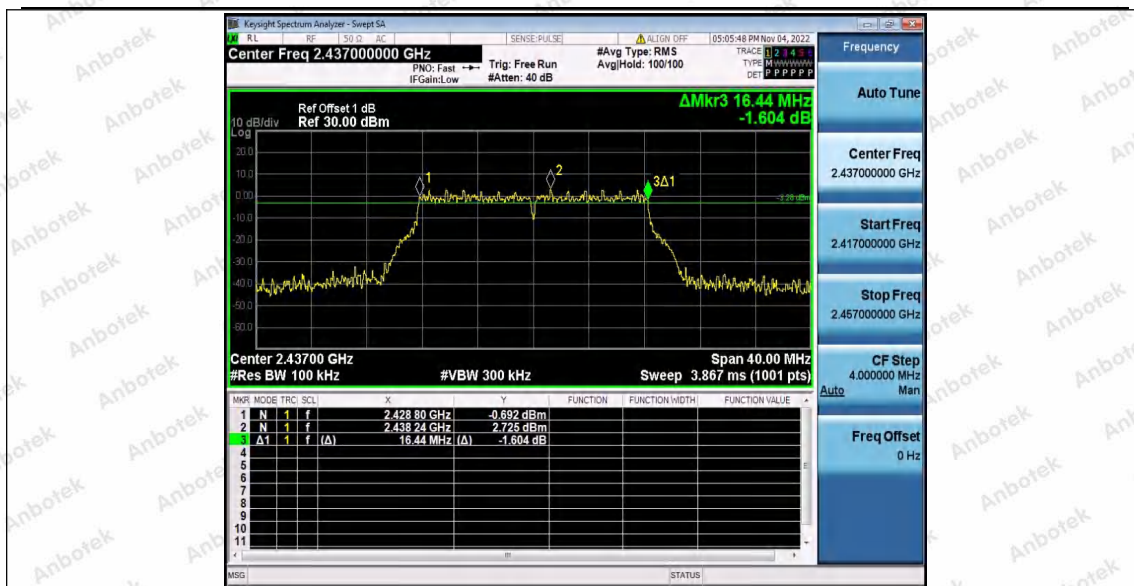


11G_Ant1_2412



11G_Ant1_2437



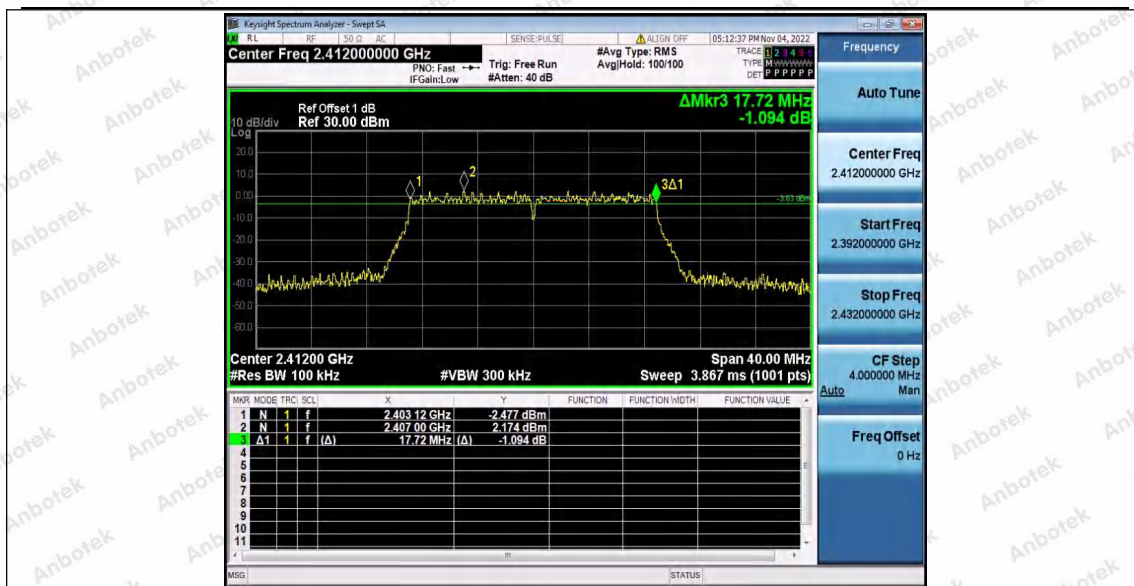


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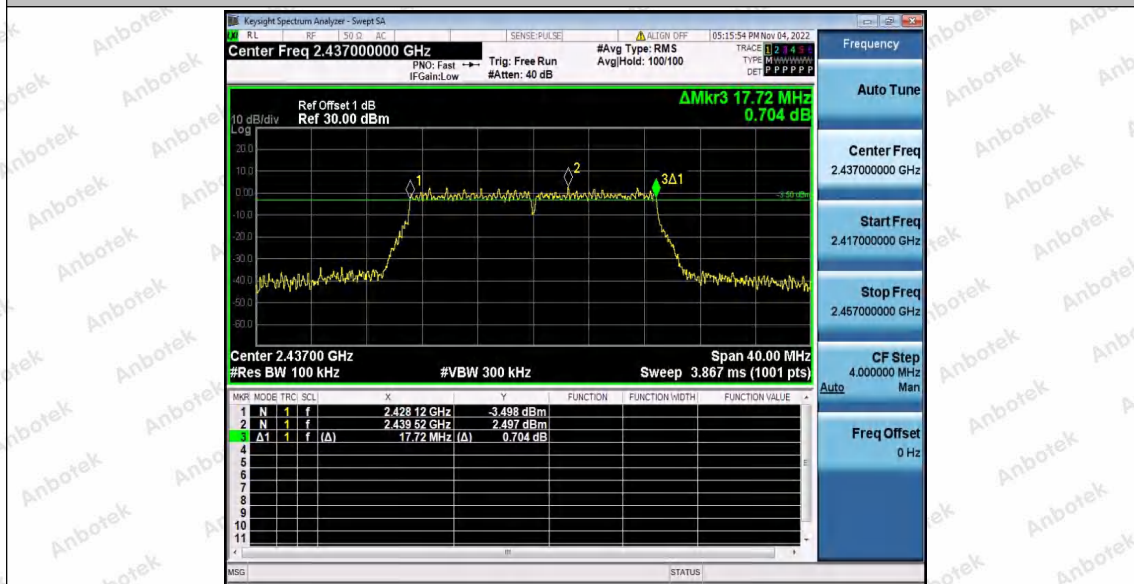


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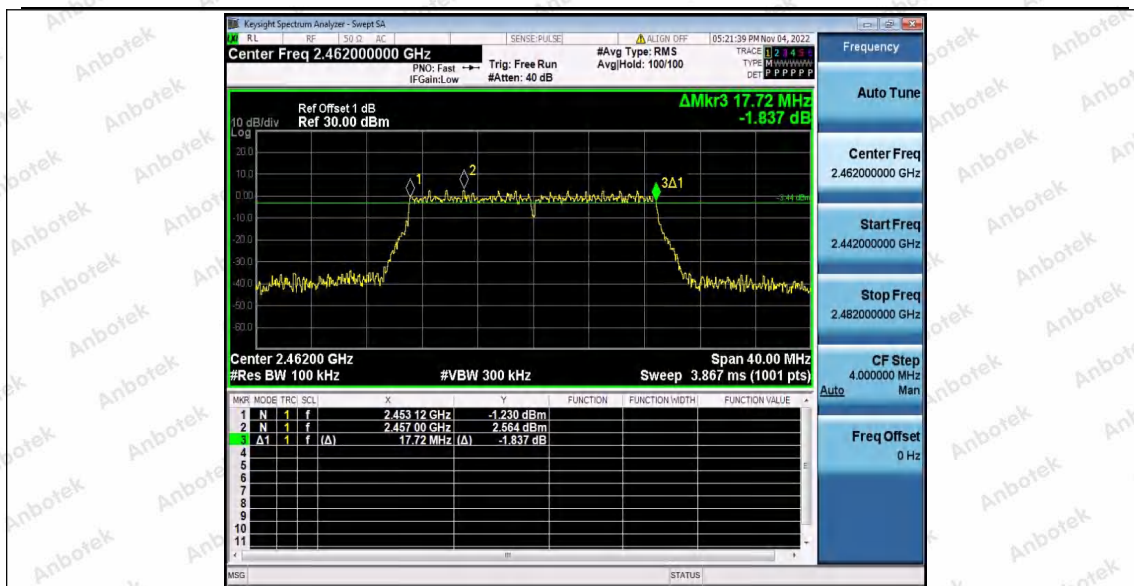


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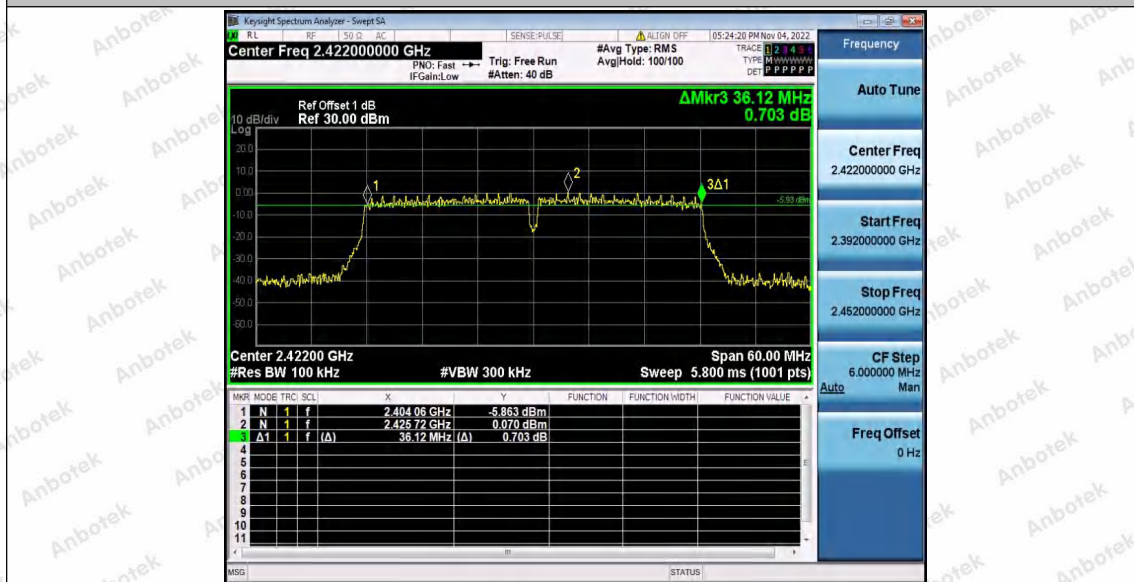


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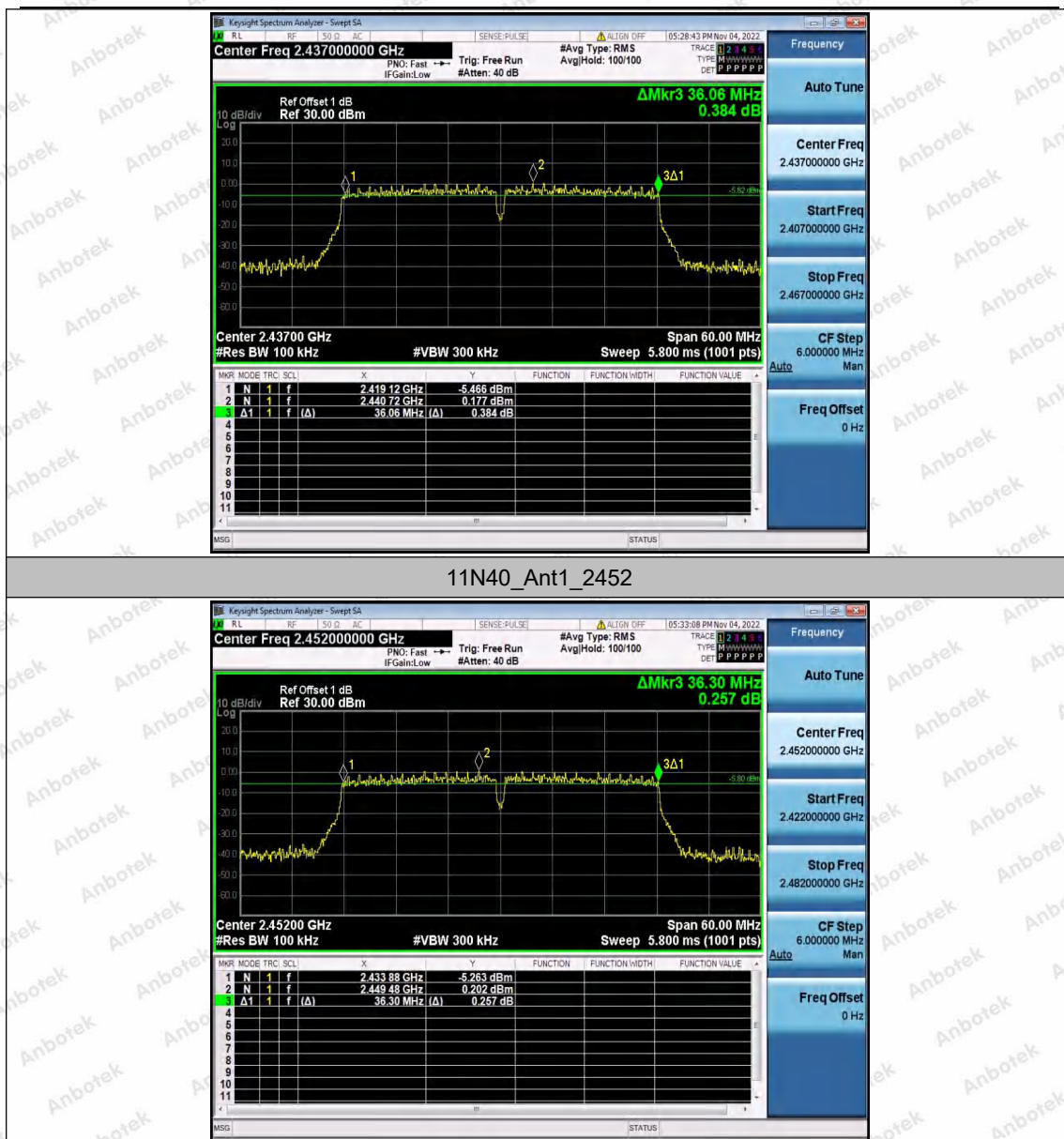


11N40_Ant1_2422



11N40_Ant1_2437





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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11B	Ant1	2412	14.941	2404.5739	2419.5149
		2437	15.003	2429.4910	2444.4940
		2462	14.973	2454.5226	2469.4956
11G	Ant1	2412	16.984	2403.5173	2420.5013
		2437	16.959	2428.5346	2445.4936
		2462	16.933	2453.5456	2470.4786
11N20	Ant1	2412	18.063	2403.0060	2421.0690
		2437	18.090	2427.9608	2446.0508
		2462	18.016	2453.0283	2471.0443
11N40	Ant1	2422	36.222	2403.9366	2440.1586
		2437	36.236	2418.9227	2455.1587
		2452	36.124	2433.9529	2470.0769



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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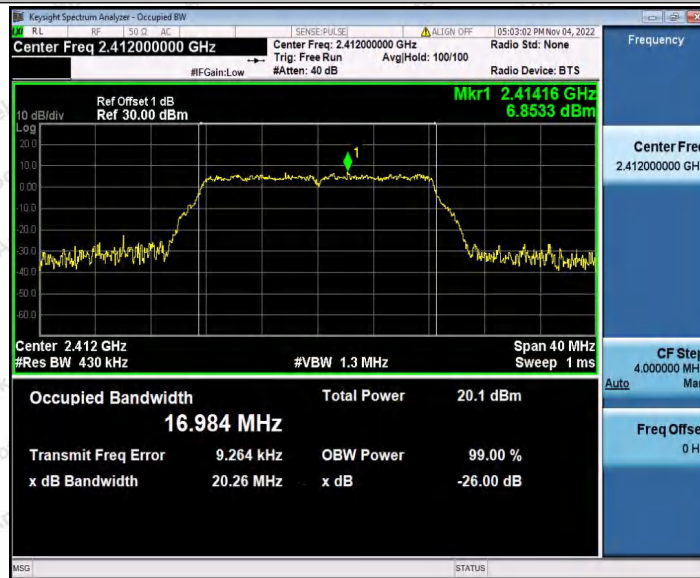


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11G_Ant1_2412



11G_Ant1_2437

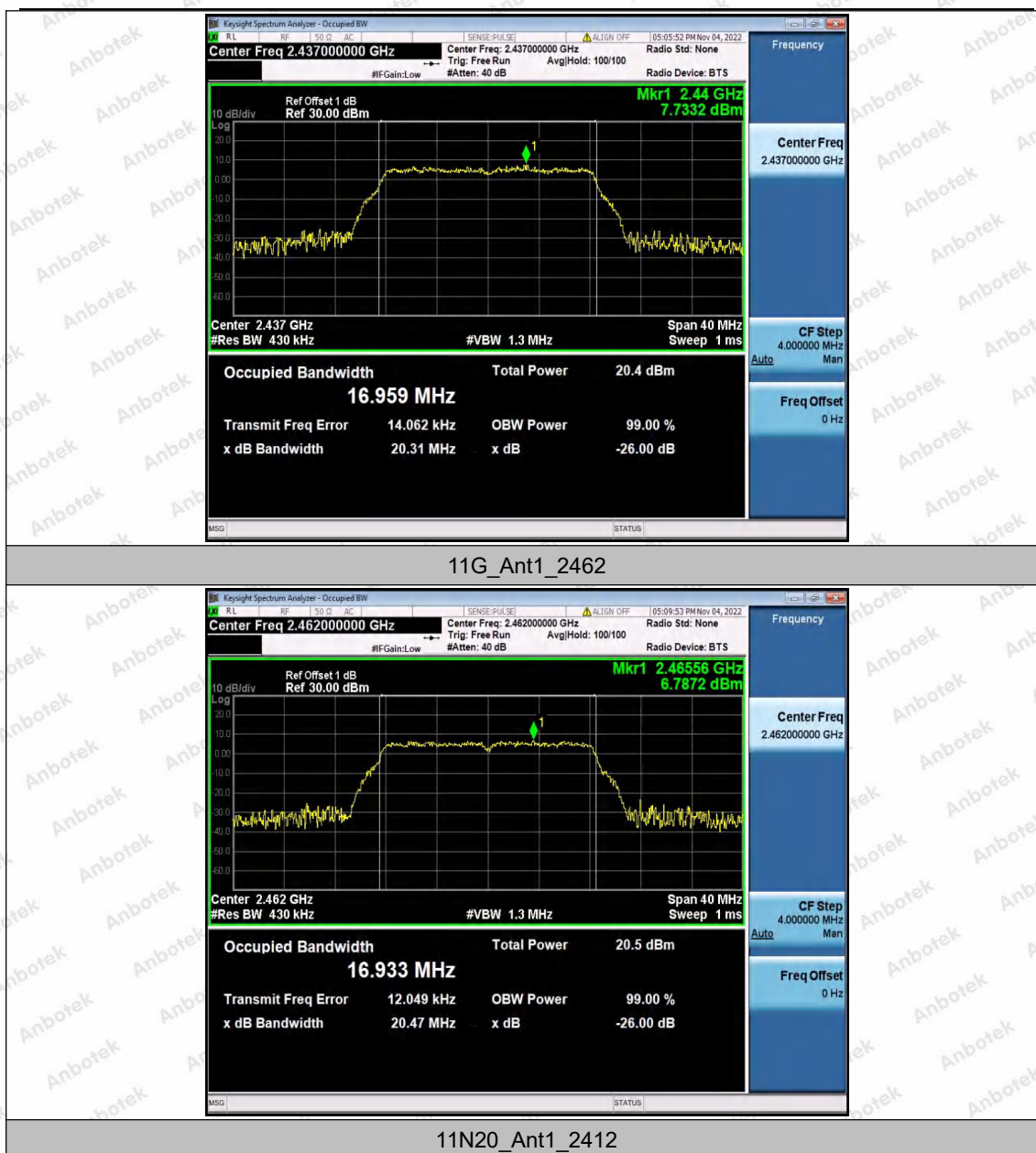
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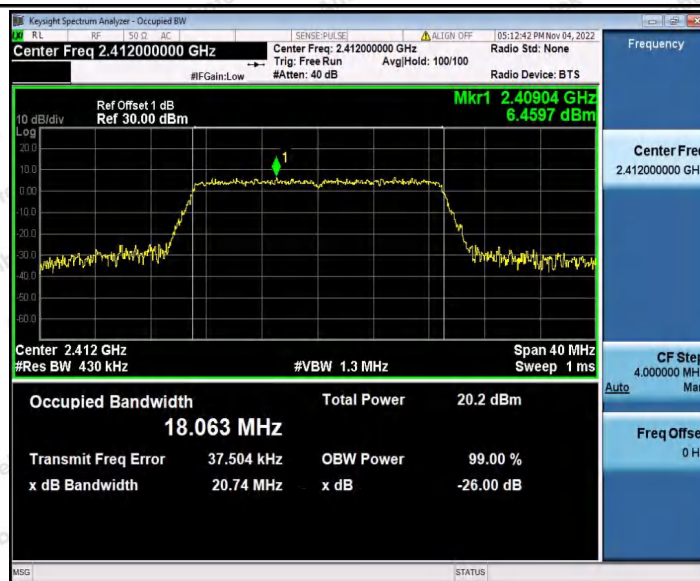
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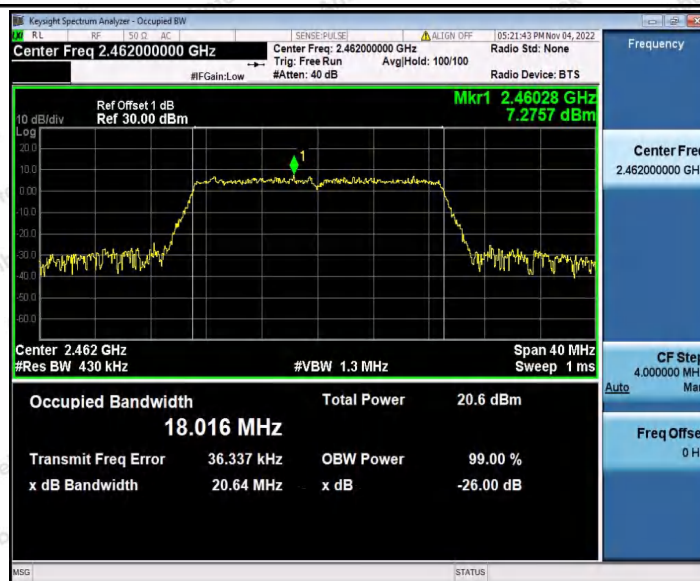


11N20_Ant1_2437



11N20_Ant1_2462



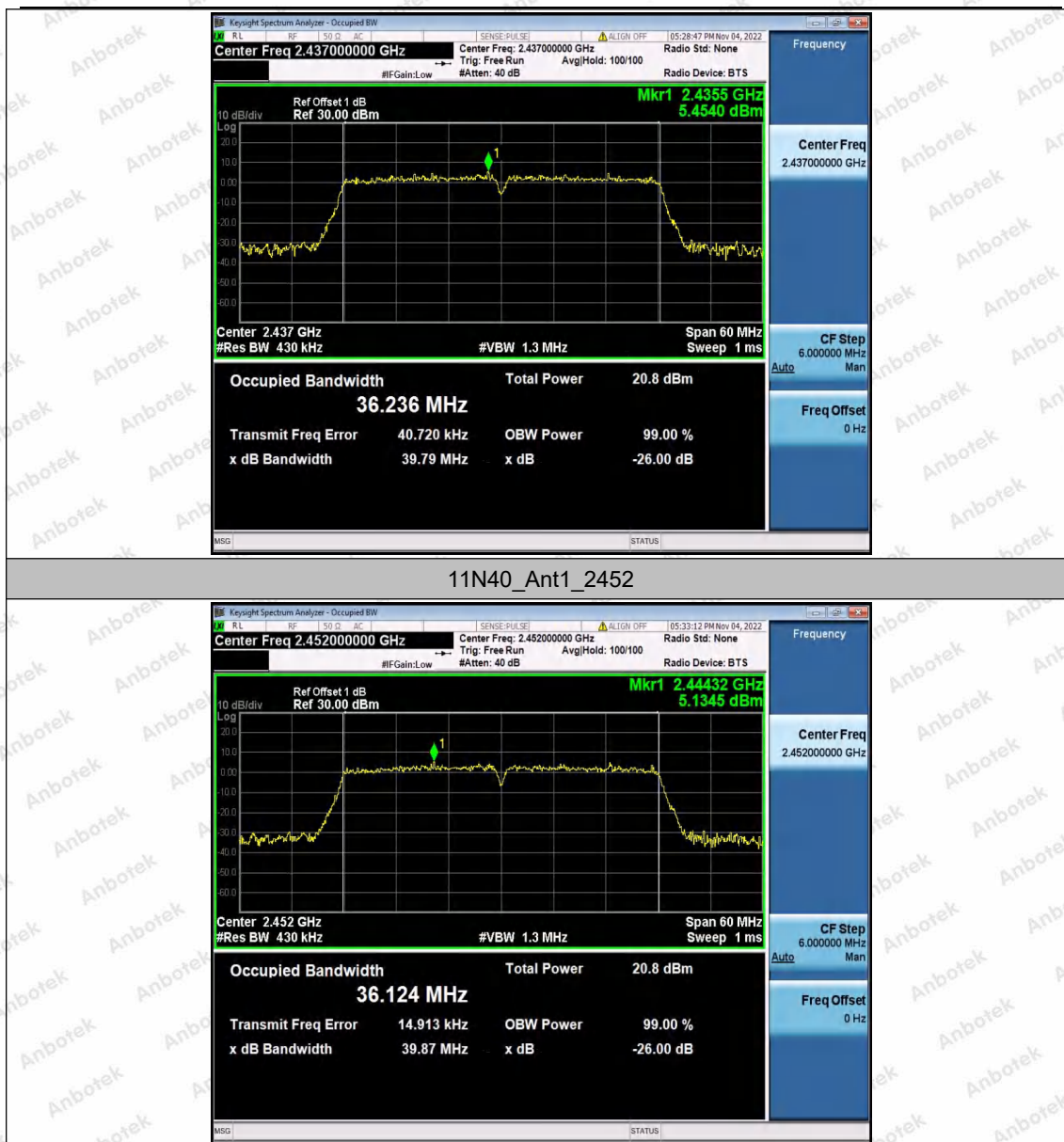


11N40_Ant1_2422



11N40_Ant1_2437





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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	21.98	≤30.00
		2437	22.34	≤30.00
		2462	22.40	≤30.00
11G	Ant1	2412	21.17	≤30.00
		2437	21.43	≤30.00
		2462	21.54	≤30.00
11N20	Ant1	2412	21.16	≤30.00
		2437	21.33	≤30.00
		2462	21.46	≤30.00
11N40	Ant1	2422	19.11	≤30.00
		2437	19.26	≤30.00
		2452	19.41	≤30.00



Appendix D: Maximum power spectral density

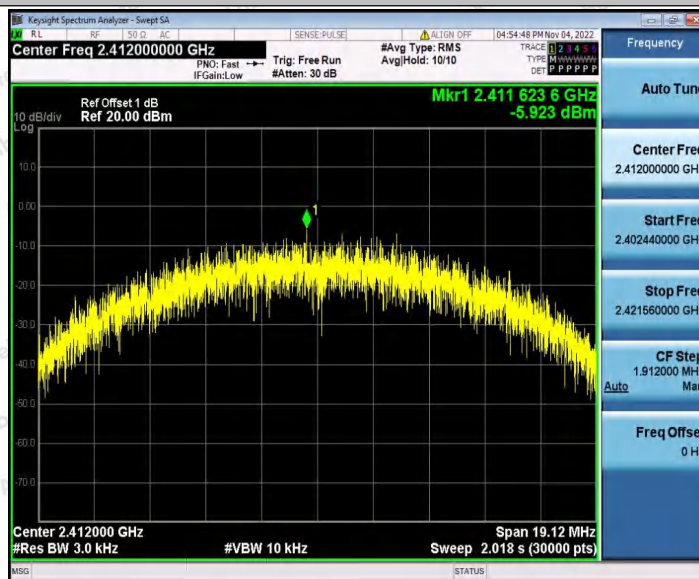
Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-5.92	≤8.00	PASS
		2437	-5.84	≤8.00	PASS
		2462	-5.54	≤8.00	PASS
11G	Ant1	2412	-11.11	≤8.00	PASS
		2437	-11	≤8.00	PASS
		2462	-10.23	≤8.00	PASS
11N20	Ant1	2412	-11.75	≤8.00	PASS
		2437	-12.04	≤8.00	PASS
		2462	-11.42	≤8.00	PASS
11N40	Ant1	2422	-14.71	≤8.00	PASS
		2437	-14.97	≤8.00	PASS
		2452	-14.81	≤8.00	PASS

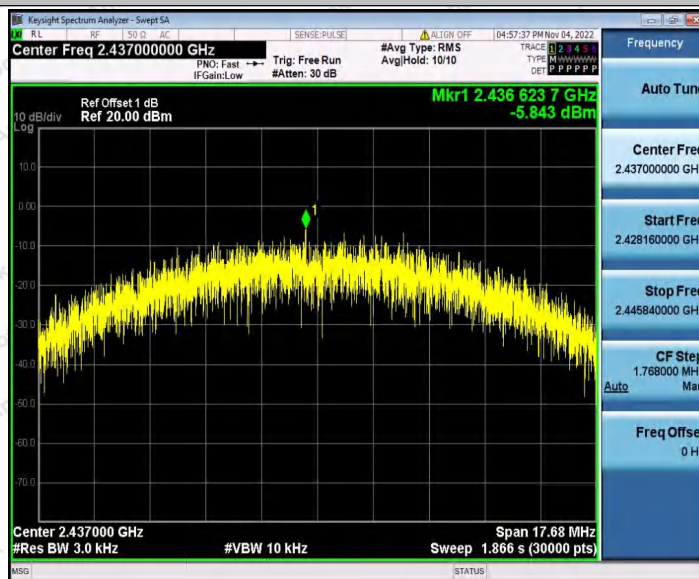


Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

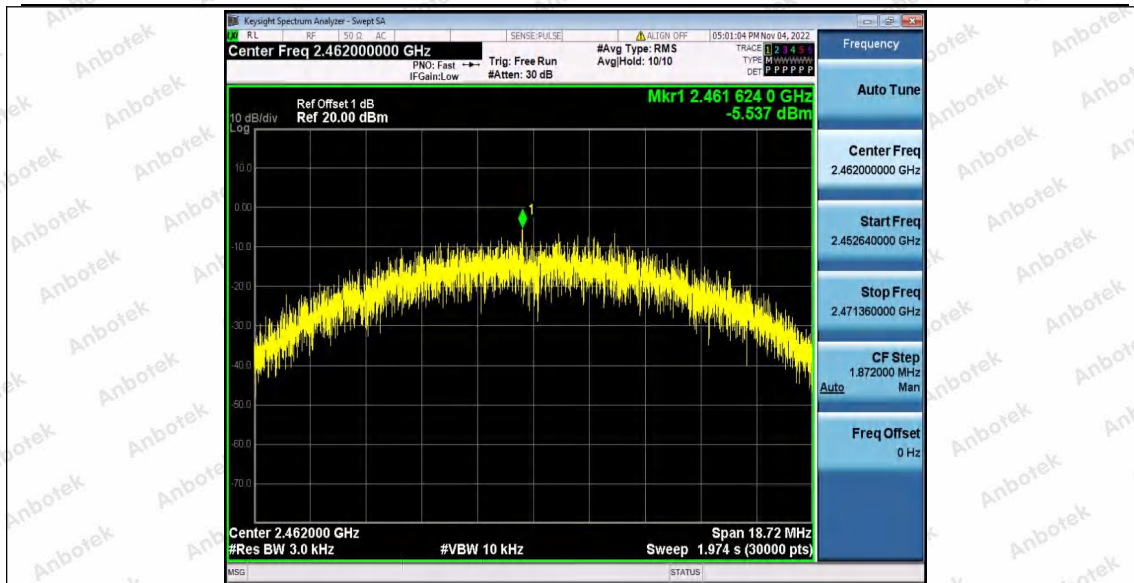
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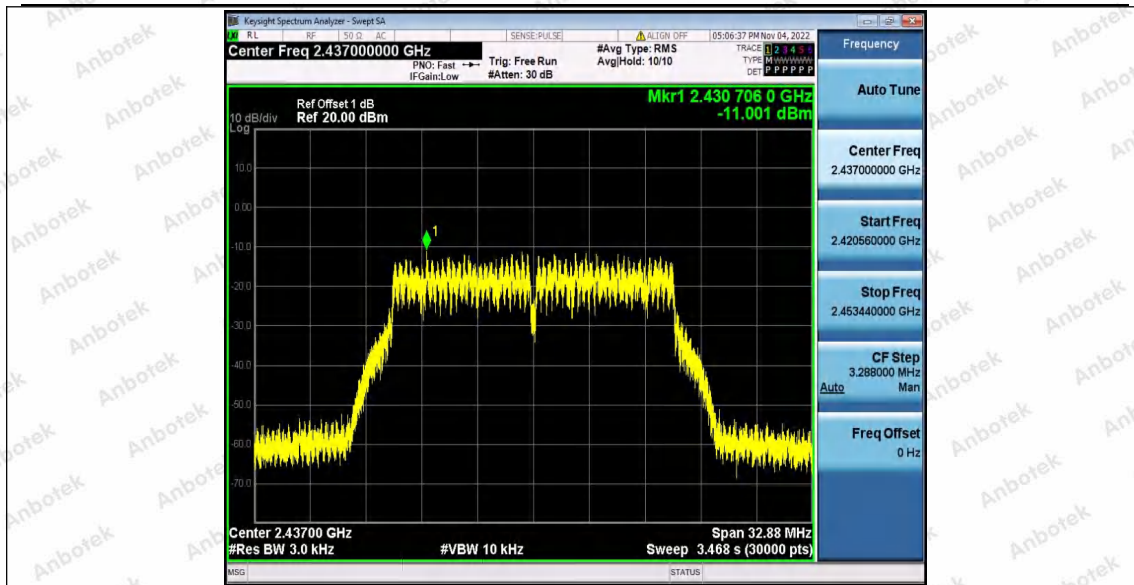
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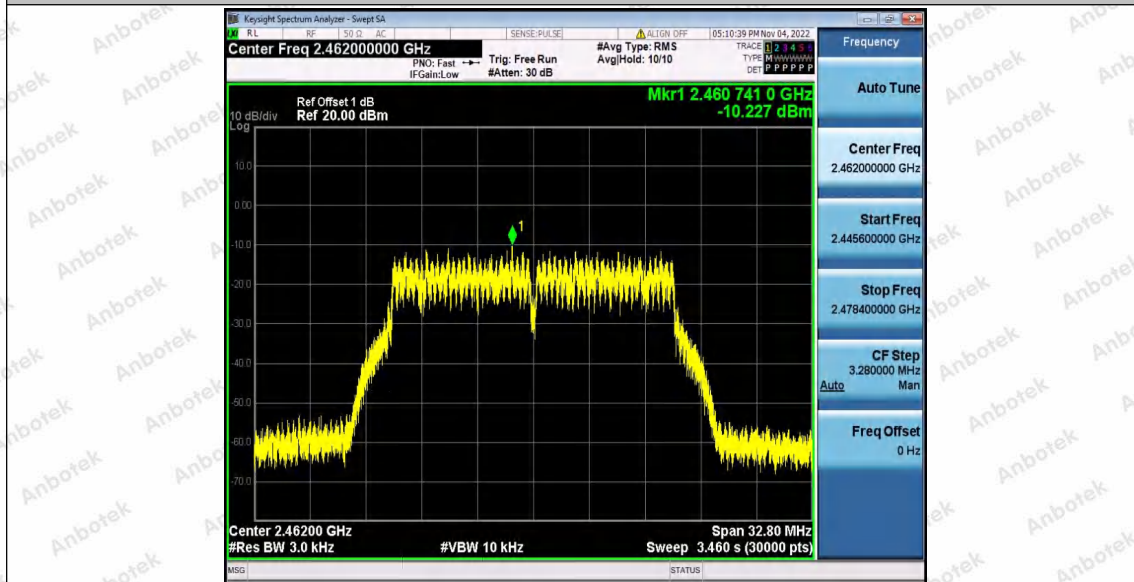
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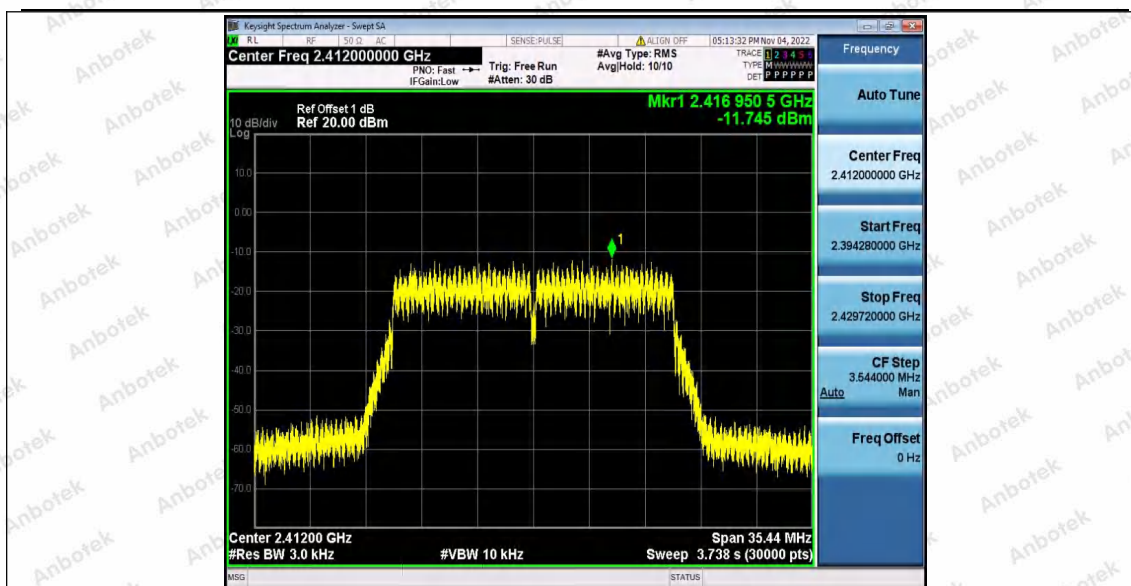


11G_Ant1_2462

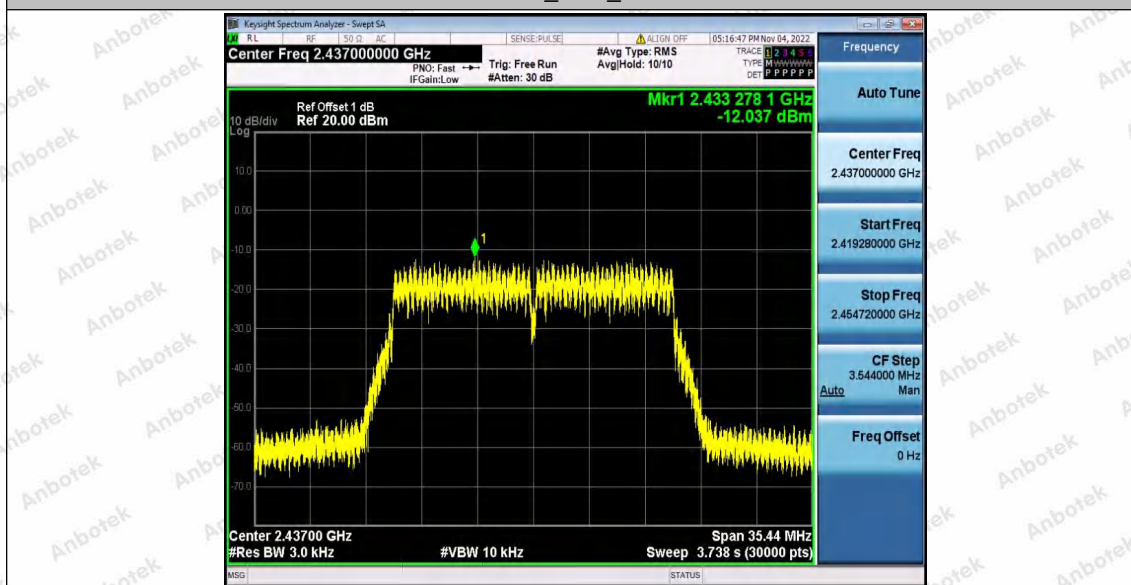


11N20_Ant1_2412





11N20_Ant1_2437

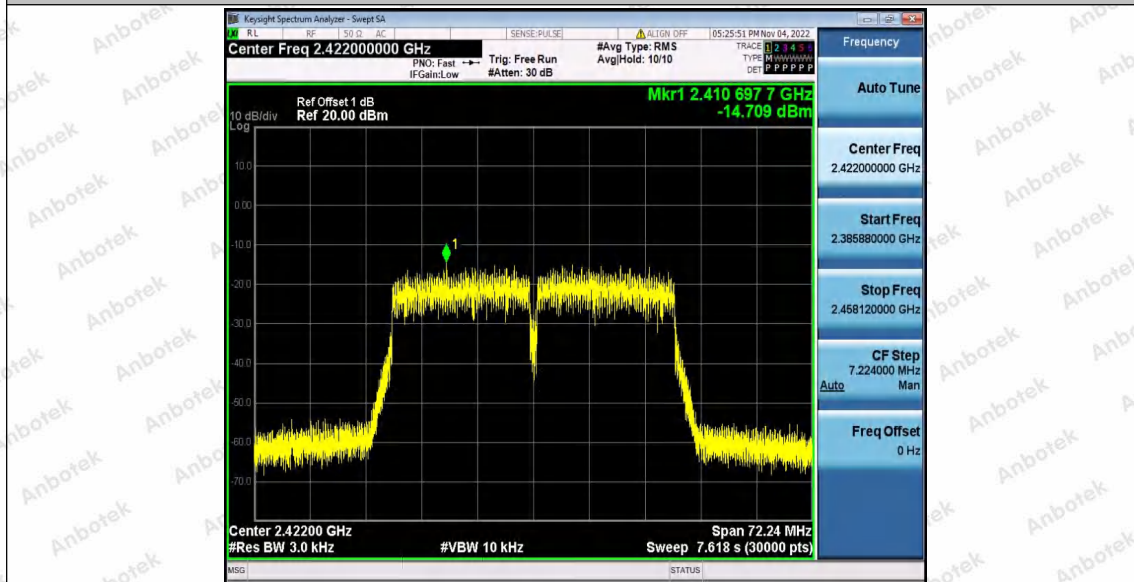


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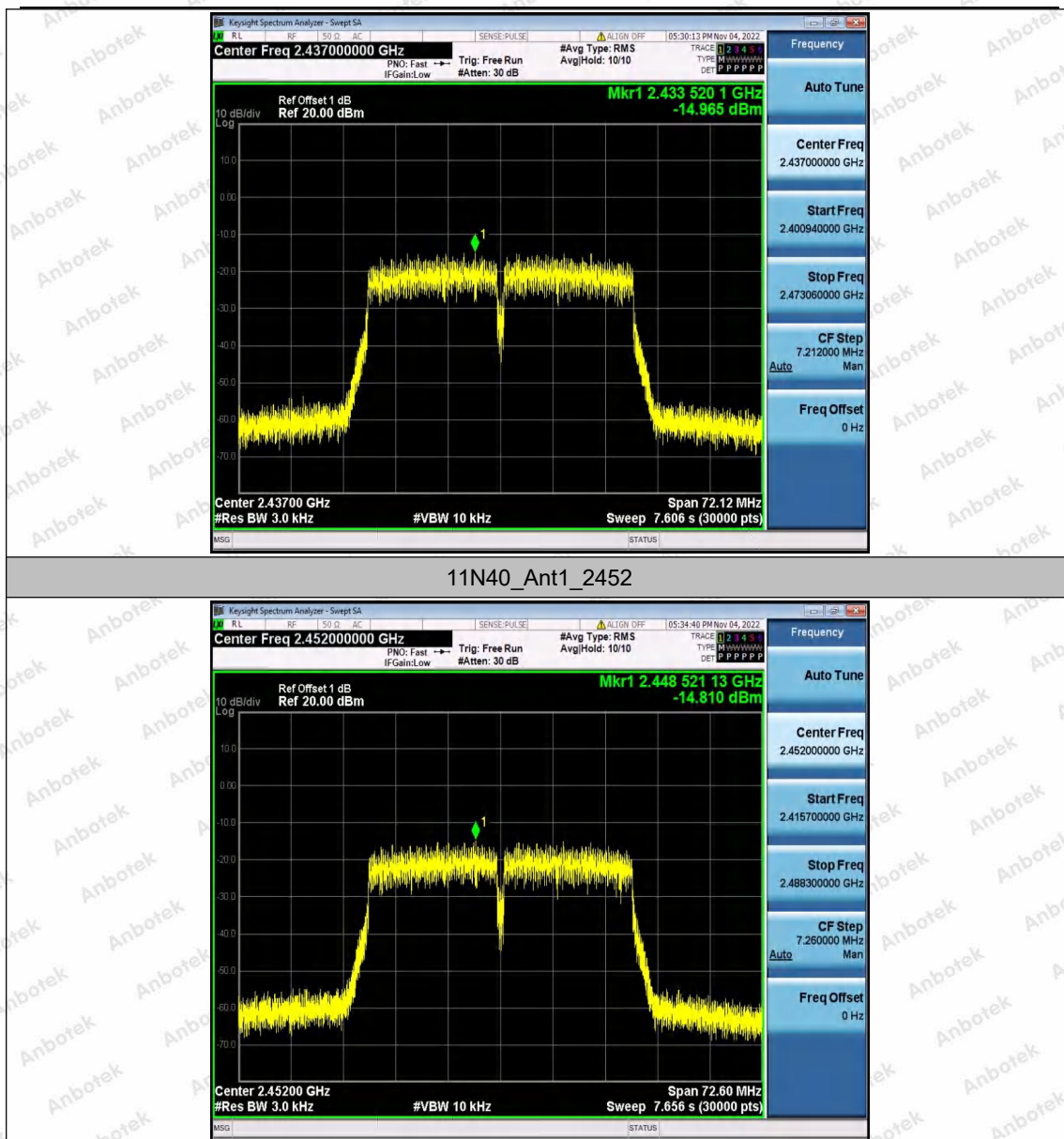


11N40_Ant1_2422



11N40_Ant1_2437





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Appendix E: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	7.89	-27.74	≤-12.12	PASS
		High	2462	8.24	-45.09	≤-11.77	PASS
11G	Ant1	Low	2412	2.47	-32.39	≤-17.53	PASS
		High	2462	2.94	-39.87	≤-17.07	PASS
11N20	Ant1	Low	2412	2.54	-34.13	≤-17.46	PASS
		High	2462	2.80	-39.72	≤-17.2	PASS
11N40	Ant1	Low	2422	-0.12	-35.82	≤-20.12	PASS
		High	2452	0.17	-40.04	≤-19.83	PASS



Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

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11G_Ant1_High_2462



11N20_Ant1_Low_2412

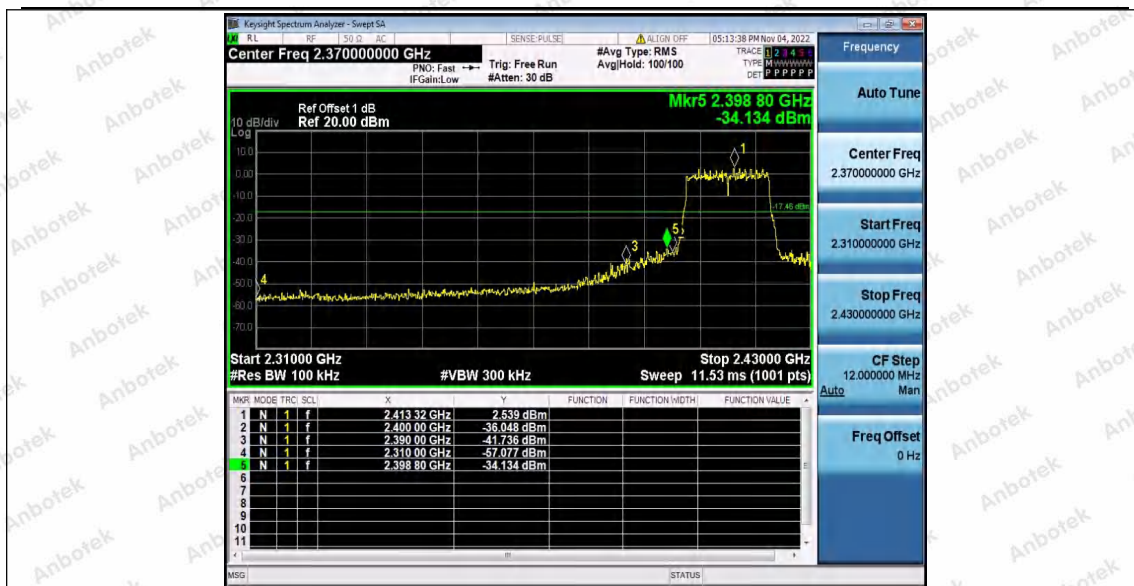
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11N20_Ant1_High_2462



11N40_Ant1_Low_2422





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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	6.80	6.80	---	PASS
			30~1000	6.80	-63.43	≤-13.2	PASS
			1000~26500	6.80	-51.58	≤-13.2	PASS
		2437	Reference	6.17	6.17	---	PASS
			30~1000	6.17	-66.11	≤-13.83	PASS
			1000~26500	6.17	-51.29	≤-13.83	PASS
		2462	Reference	8.01	8.01	---	PASS
			30~1000	8.01	-66.54	≤-11.99	PASS
			1000~26500	8.01	-51.08	≤-11.99	PASS
11G	Ant1	2412	Reference	2.07	2.07	---	PASS
			30~1000	2.07	-66.82	≤-17.93	PASS
			1000~26500	2.07	-53.9	≤-17.93	PASS
		2437	Reference	2.43	2.43	---	PASS
			30~1000	2.43	-68.19	≤-17.57	PASS
			1000~26500	2.43	-53.55	≤-17.57	PASS
		2462	Reference	2.89	2.89	---	PASS
			30~1000	2.89	-68.07	≤-17.11	PASS
			1000~26500	2.89	-53.25	≤-17.11	PASS
11N20	Ant1	2412	Reference	2.22	2.22	---	PASS
			30~1000	2.22	-68.25	≤-17.78	PASS
			1000~26500	2.22	-53.86	≤-17.78	PASS
		2437	Reference	1.24	1.24	---	PASS
			30~1000	1.24	-67.95	≤-18.76	PASS
			1000~26500	1.24	-53.14	≤-18.76	PASS
		2462	Reference	2.40	2.40	---	PASS
			30~1000	2.40	-69.17	≤-17.6	PASS
			1000~26500	2.40	-52.92	≤-17.6	PASS
11N40	Ant1	2422	Reference	-0.09	-0.09	---	PASS
			30~1000	-0.09	-68.72	≤-20.09	PASS
			1000~26500	-0.09	-53.85	≤-20.09	PASS
		2437	Reference	-0.93	-0.93	---	PASS
			30~1000	-0.93	-68.27	≤-20.93	PASS
			1000~26500	-0.93	-53.39	≤-20.93	PASS
		2452	Reference	-0.06	-0.06	---	PASS
			30~1000	-0.06	-69.46	≤-20.06	PASS
			1000~26500	-0.06	-53.26	≤-20.06	PASS

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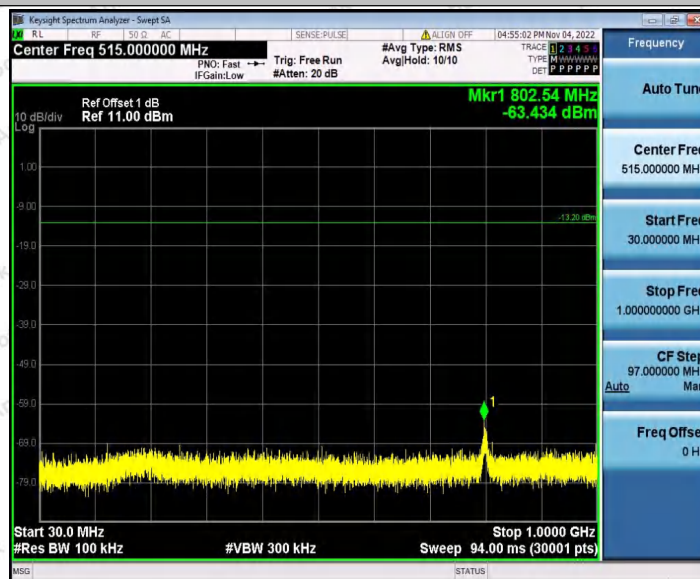


Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

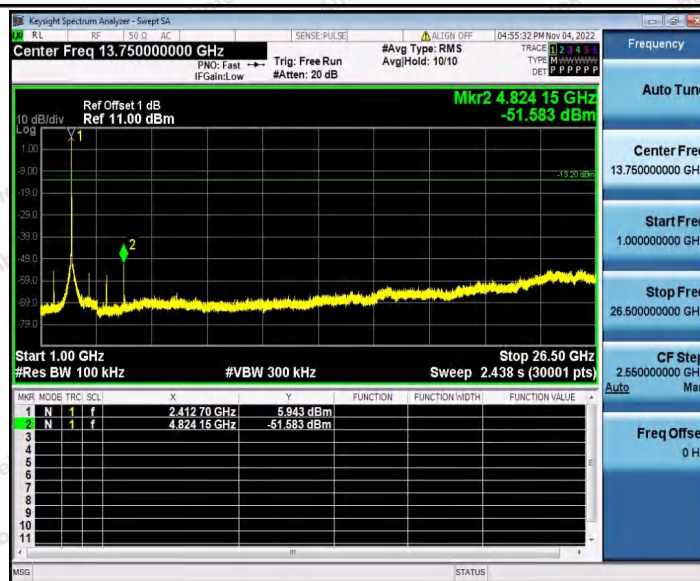
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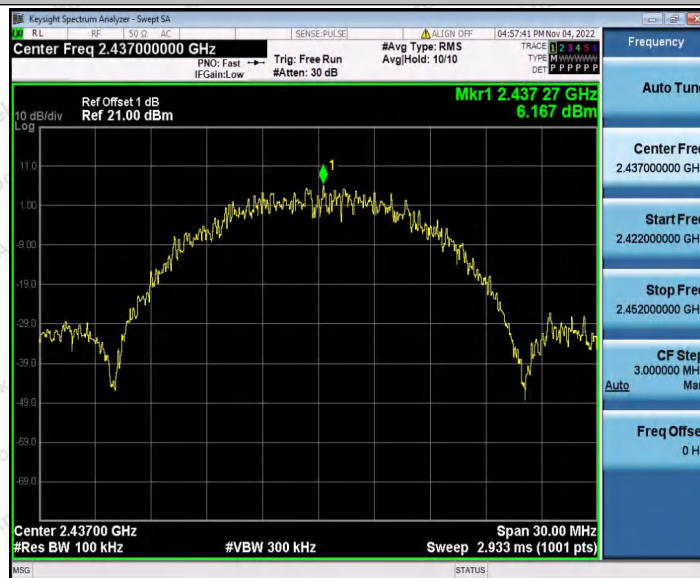


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11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000

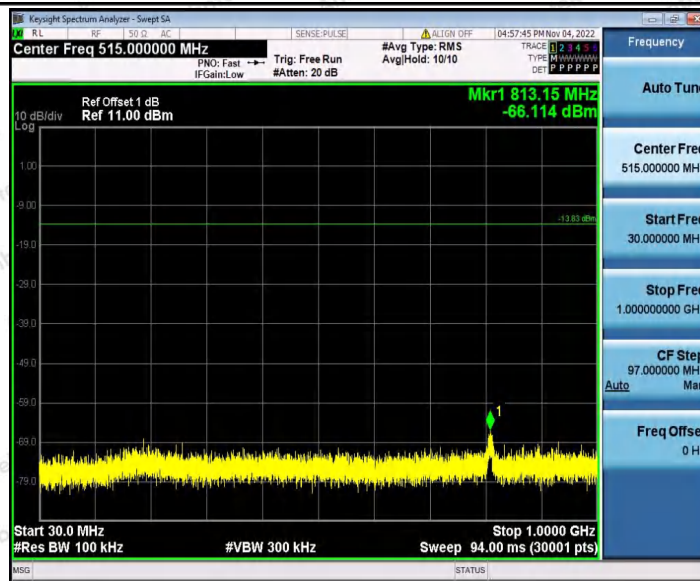
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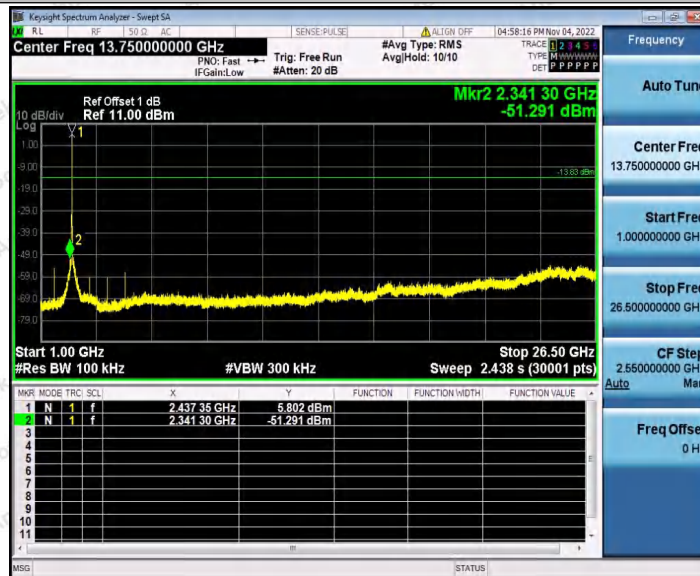


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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference

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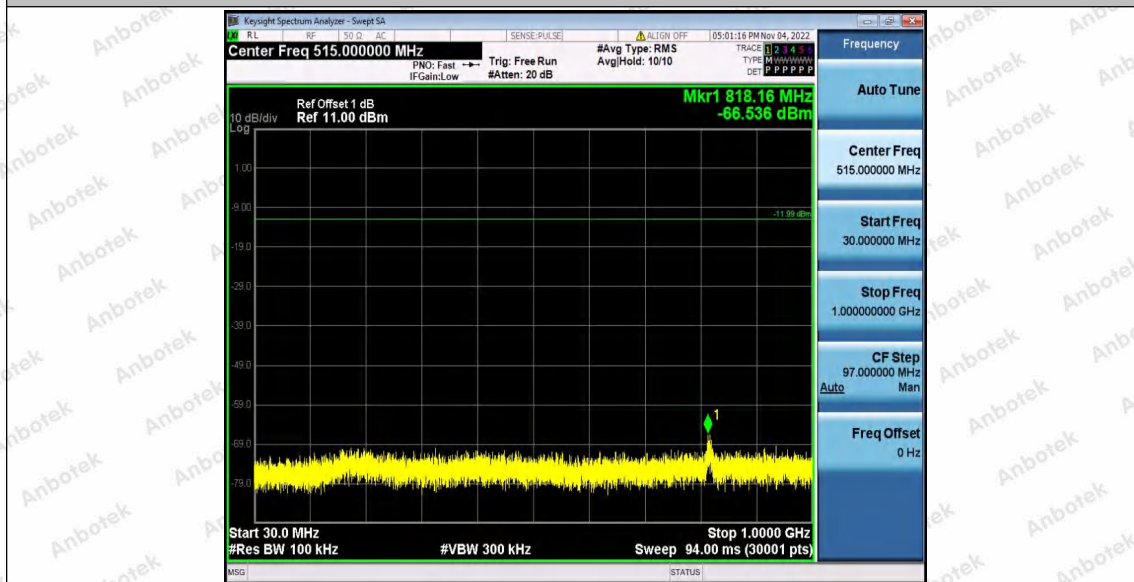


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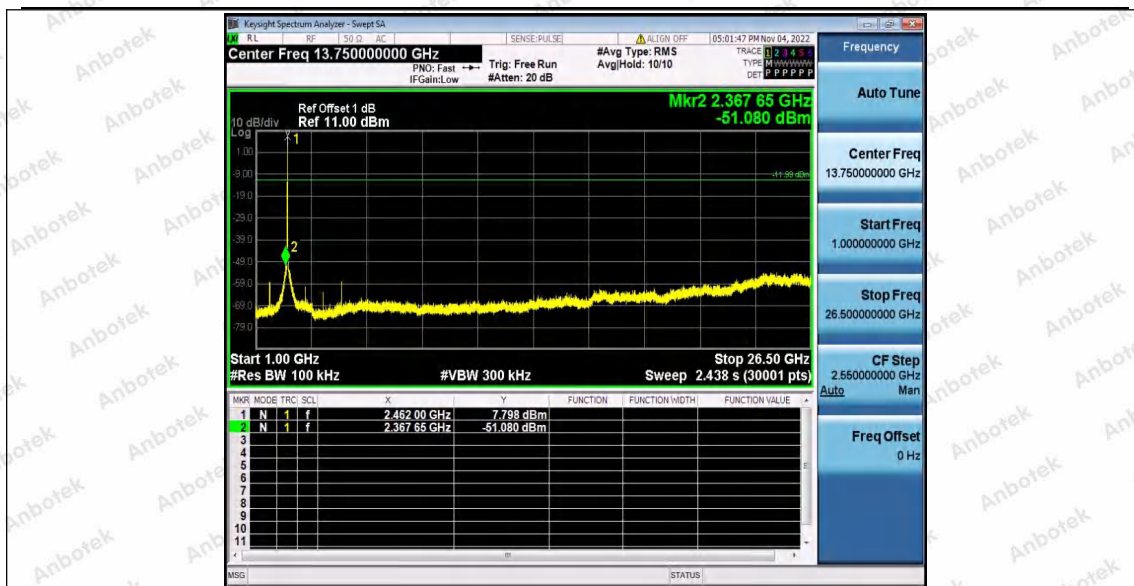


11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500





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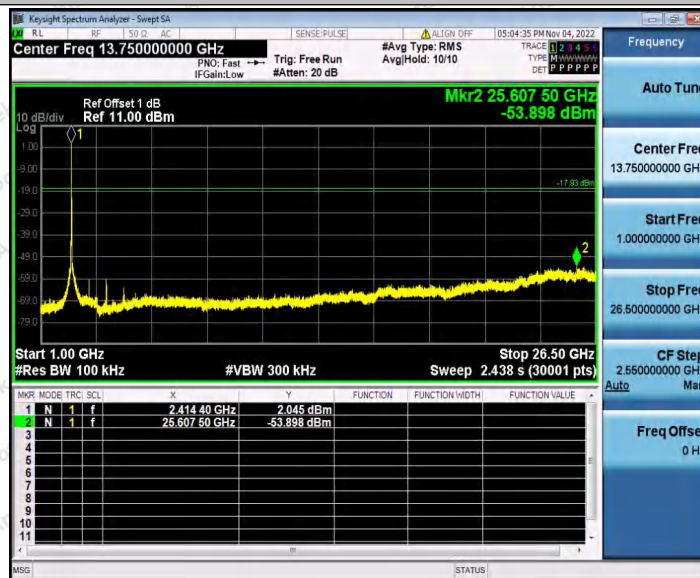


11G_Ant1_2412_30~1000





11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500

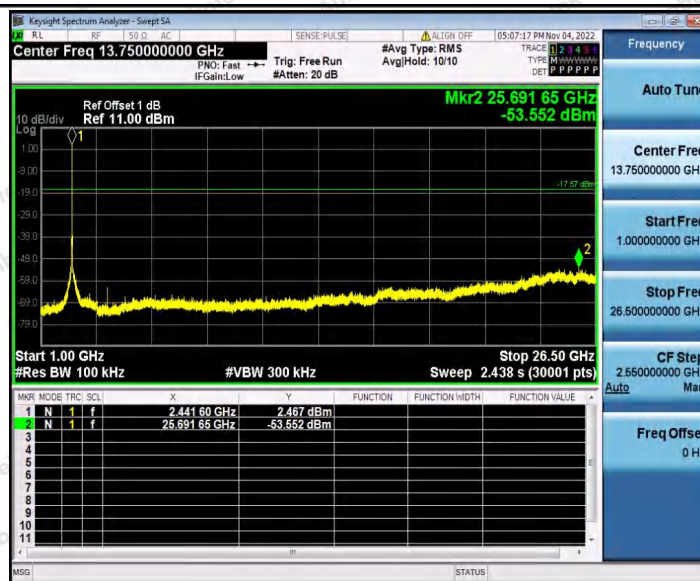
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11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000

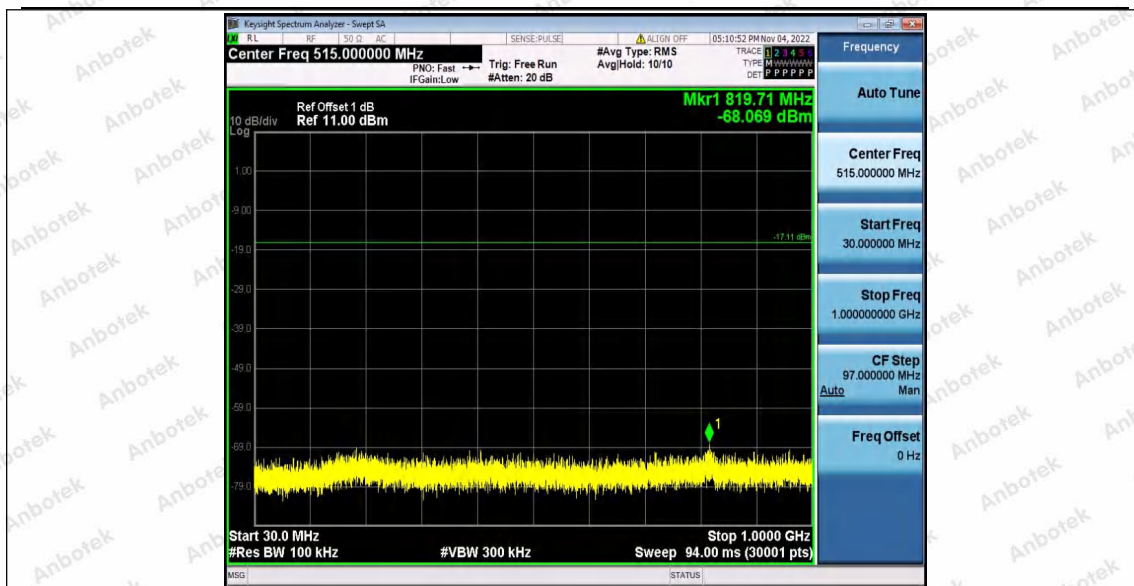
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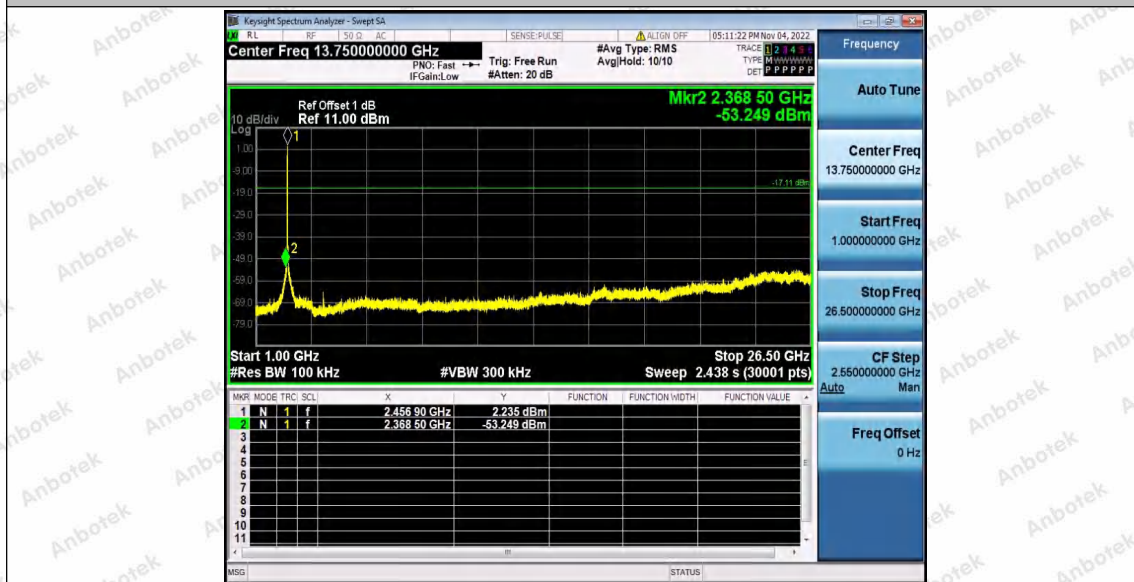


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11G_Ant1_2462_1000~26500



11N20_Ant1_2412_0~Reference

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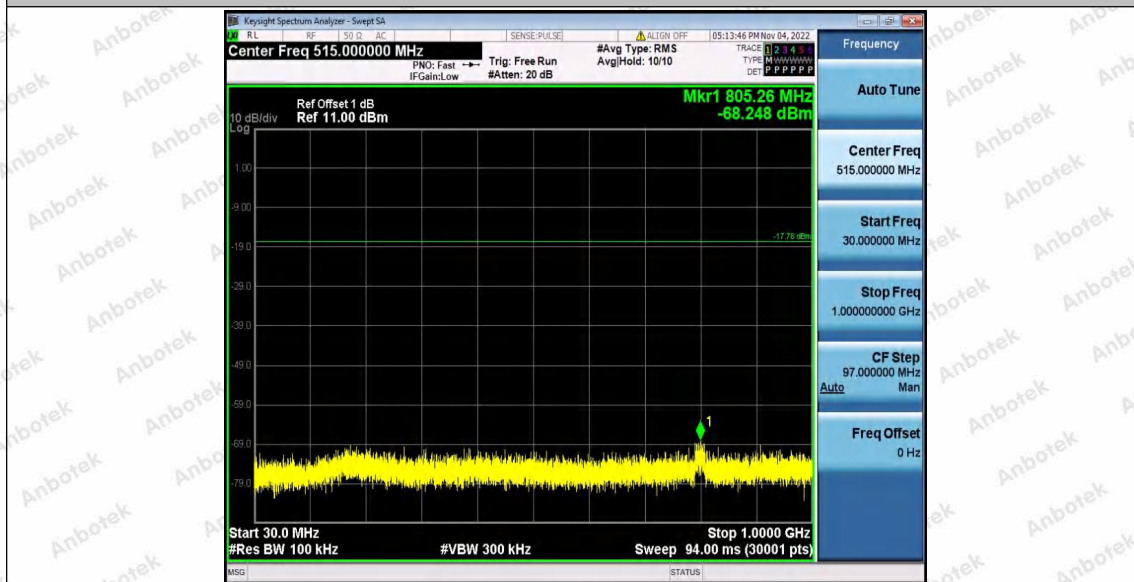


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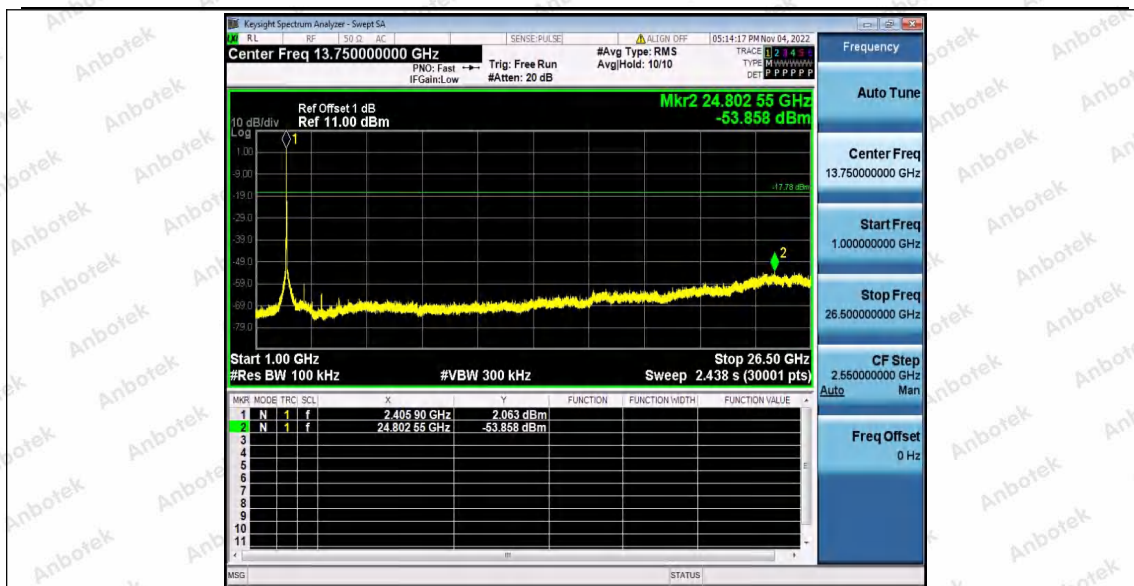


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11N20_Ant1_2412_1000~26500





11N20_Ant1_2437_0~Reference

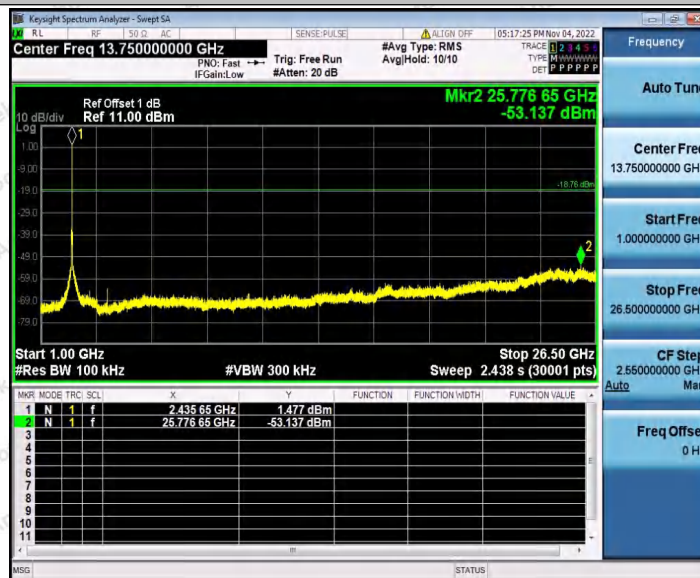


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11N20_Ant1_2437_1000~26500



11N20_Ant1_2462_0~Reference

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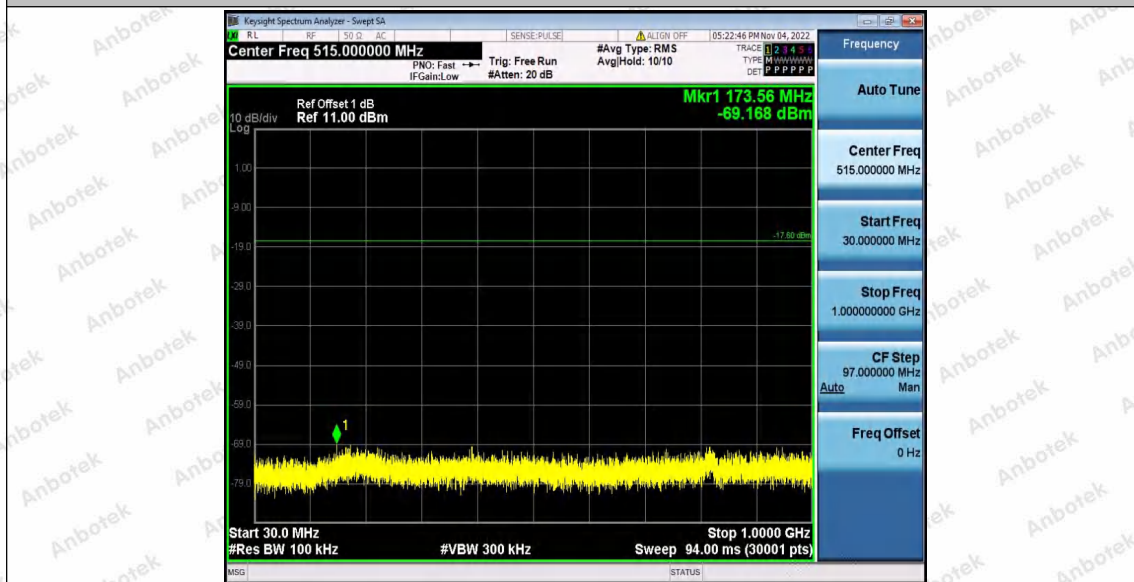


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11N20_Ant1_2462_30~1000



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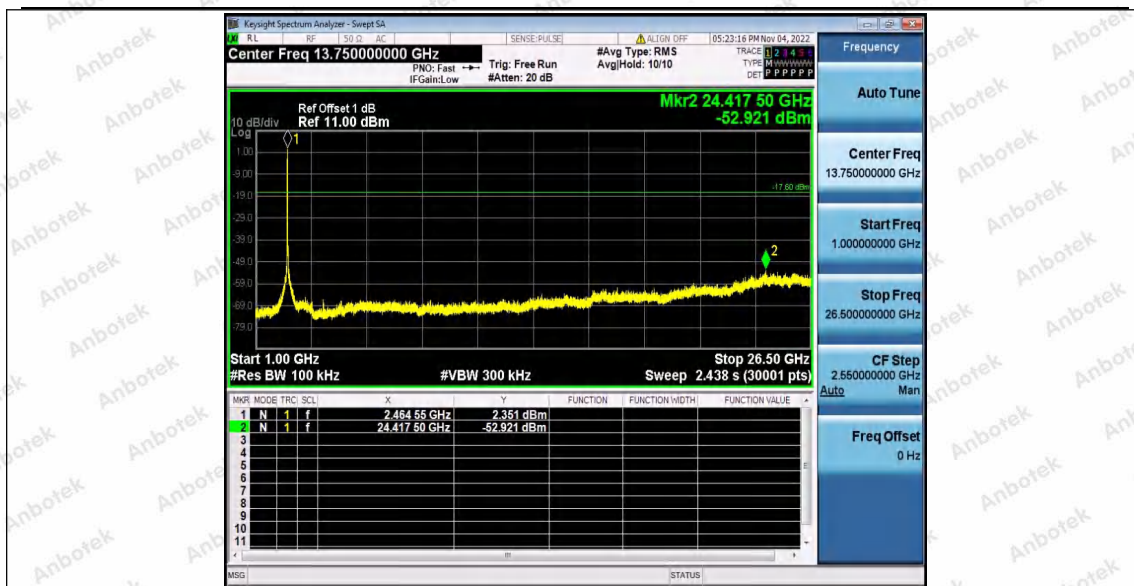
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11N40_Ant1_2422_0~Reference

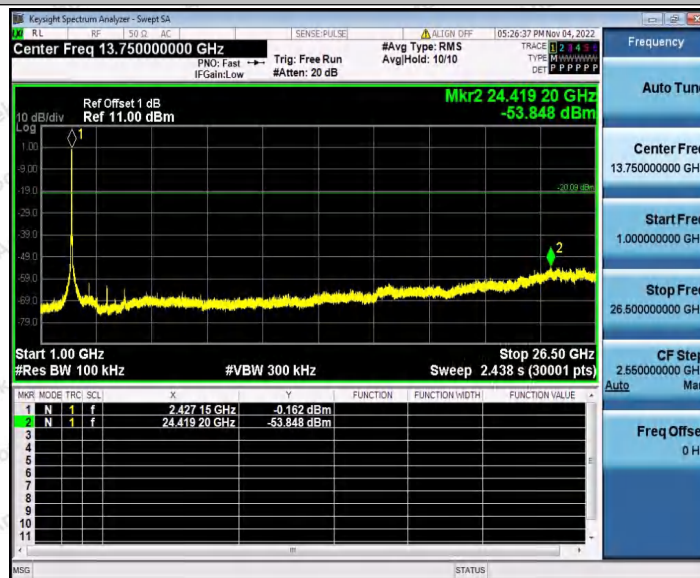


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11N40_Ant1_2422_1000~26500



11N40_Ant1_2437_0~Reference

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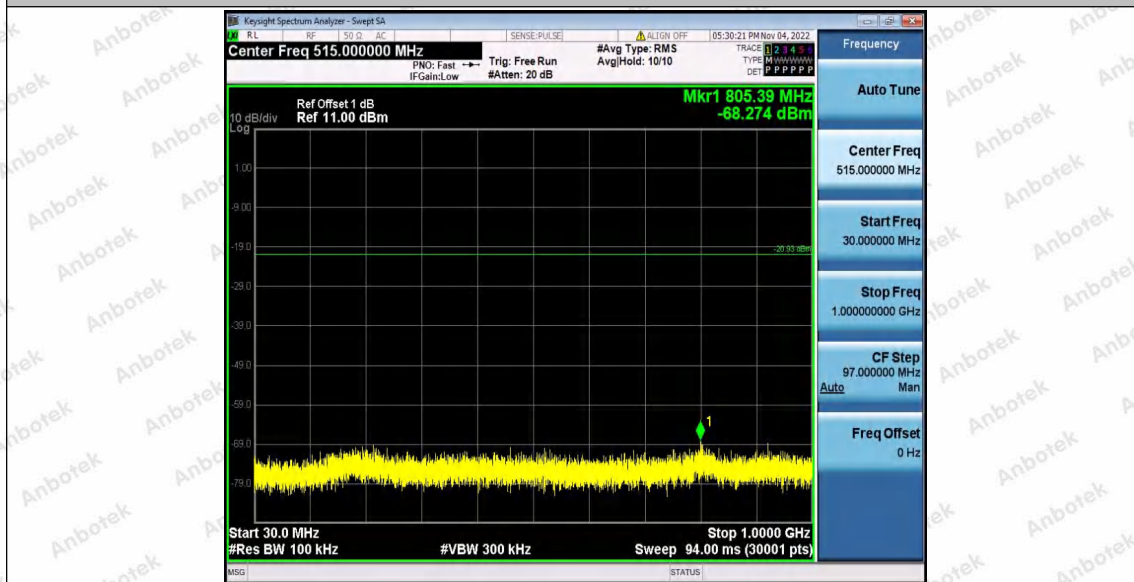


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11N40_Ant1_2437_30~1000



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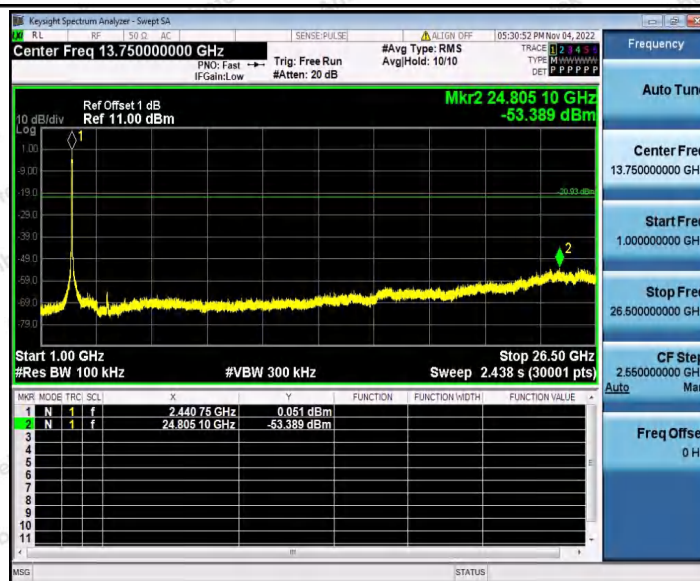
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11N40_Ant1_2452_0~Reference



11N40_Ant1_2452_30~1000

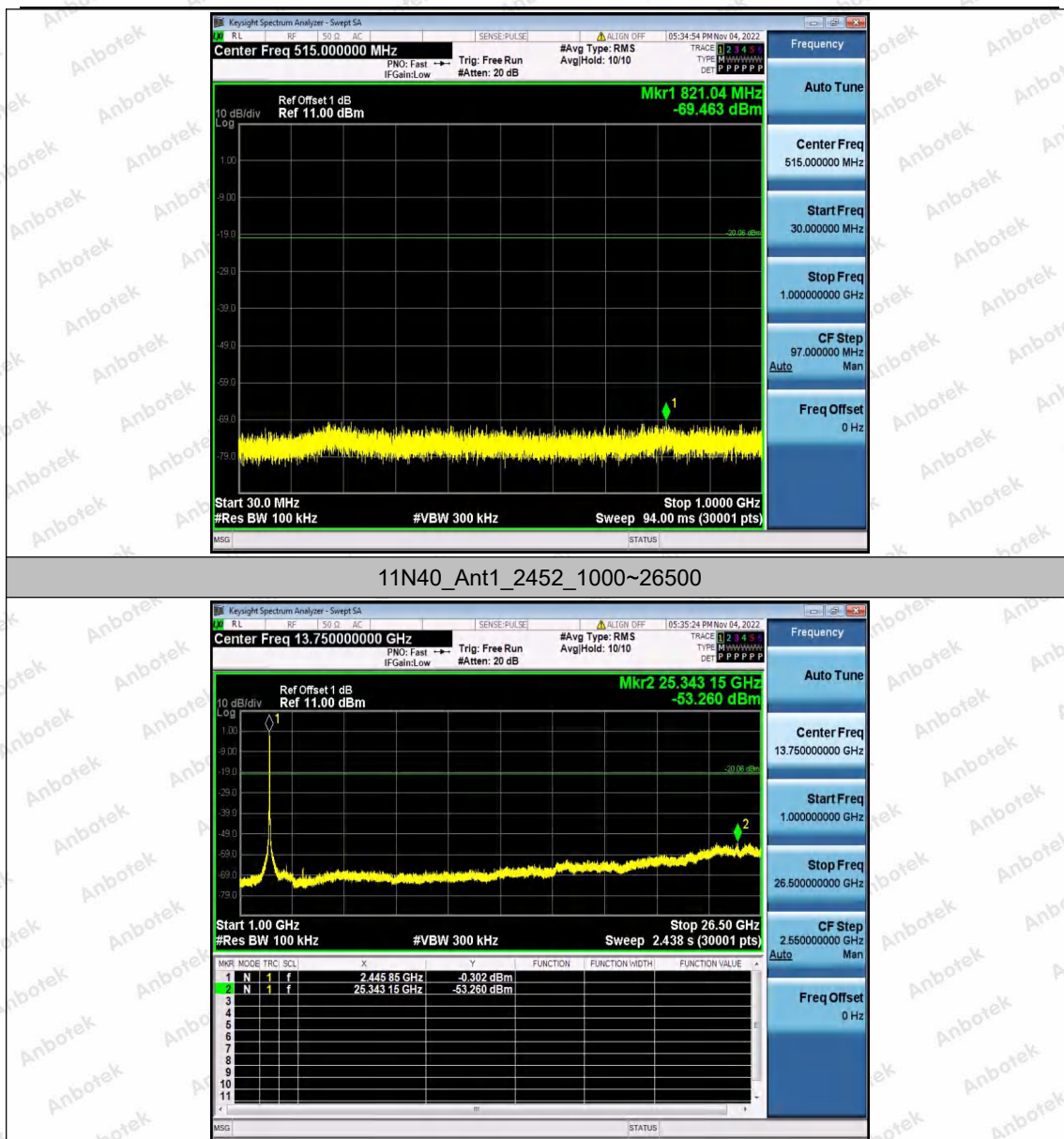
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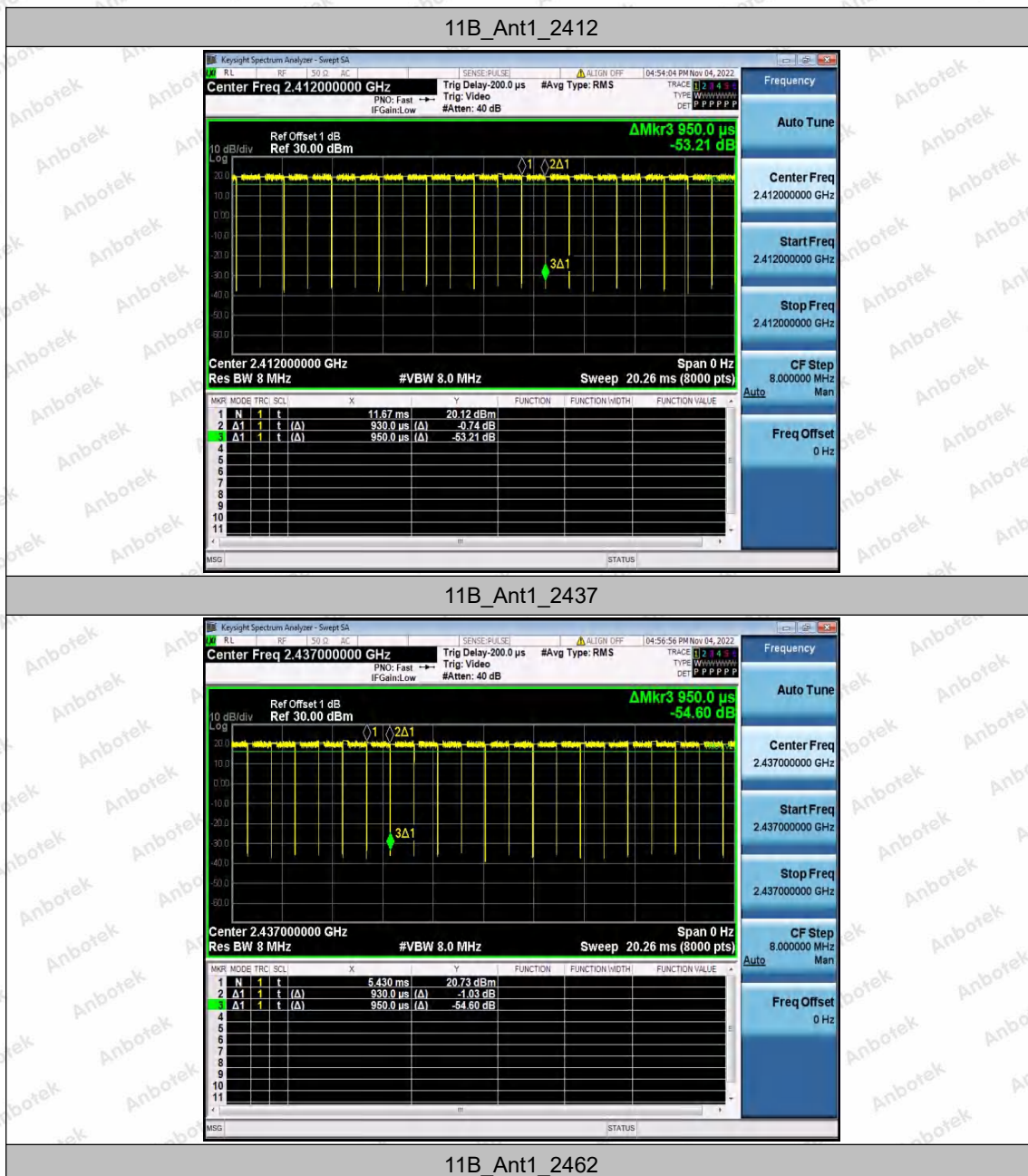
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	0.93	0.95	97.89	0.09
		2437	0.93	0.95	97.89	0.09
		2462	0.93	0.95	97.89	0.09
11G	Ant1	2412	0.17	0.19	89.47	0.48
		2437	0.17	0.19	89.47	0.48
		2462	0.17	0.19	89.47	0.48
11N20	Ant1	2412	0.54	0.56	96.43	0.16
		2437	0.54	0.56	96.43	0.16
		2462	0.54	0.56	96.43	0.16
11N40	Ant1	2422	0.28	0.29	96.55	0.15
		2437	0.28	0.30	93.33	0.30
		2452	0.28	0.30	93.33	0.30



Test Graphs



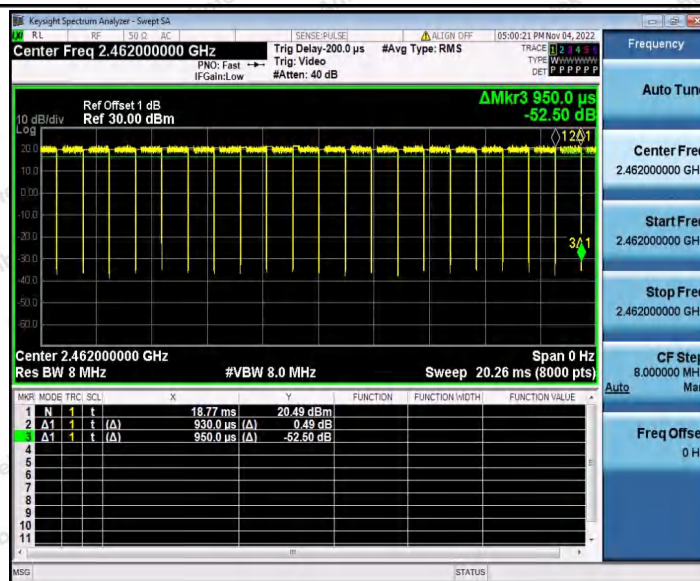
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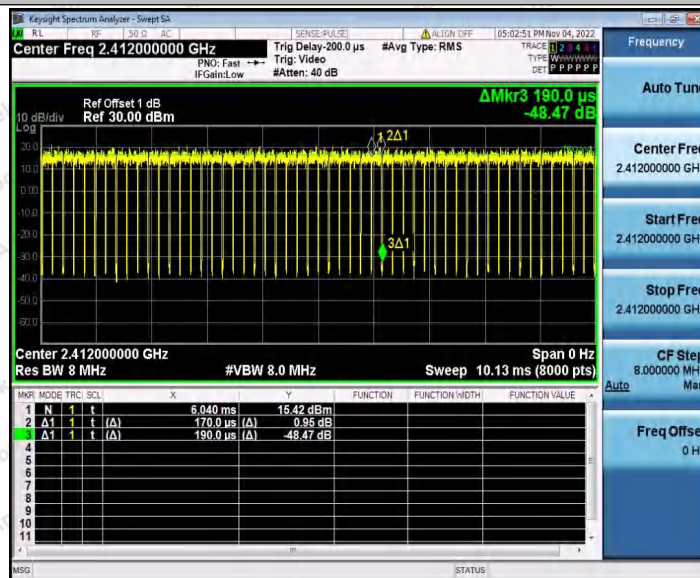


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11G_Ant1_2412



11G_Ant1_2437

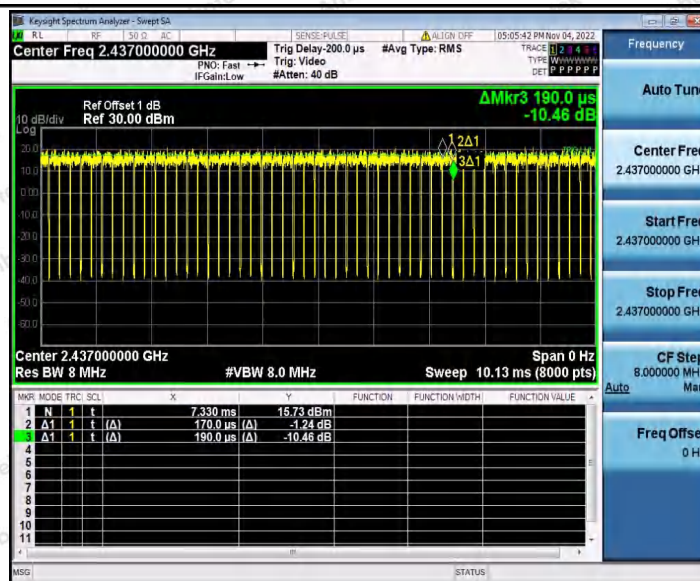
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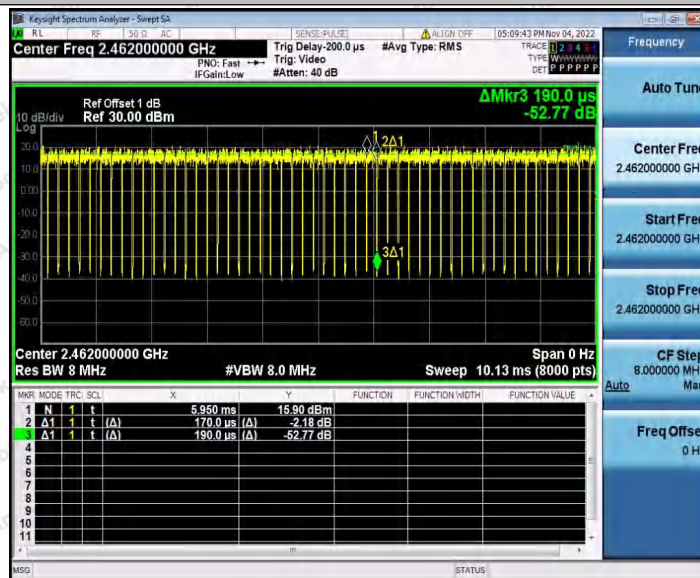


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11G_Ant1_2462



11N20_Ant1_2412

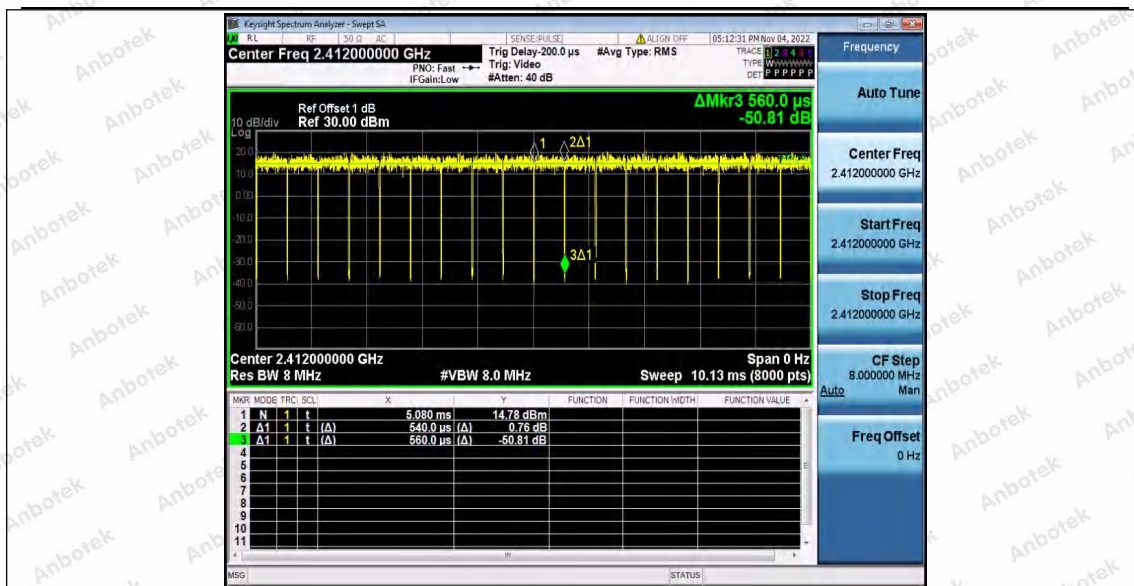
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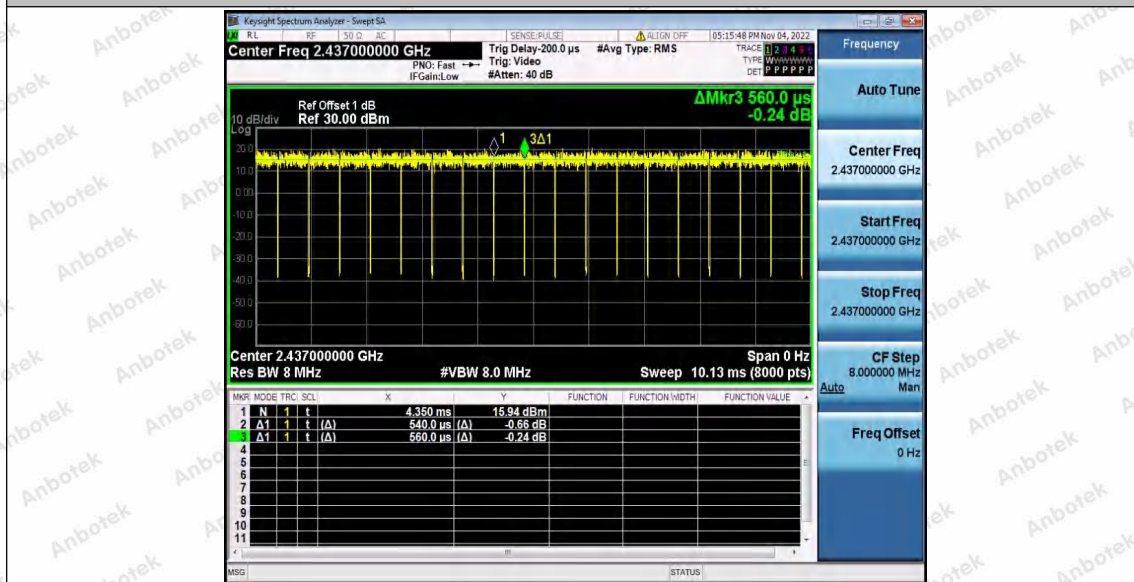


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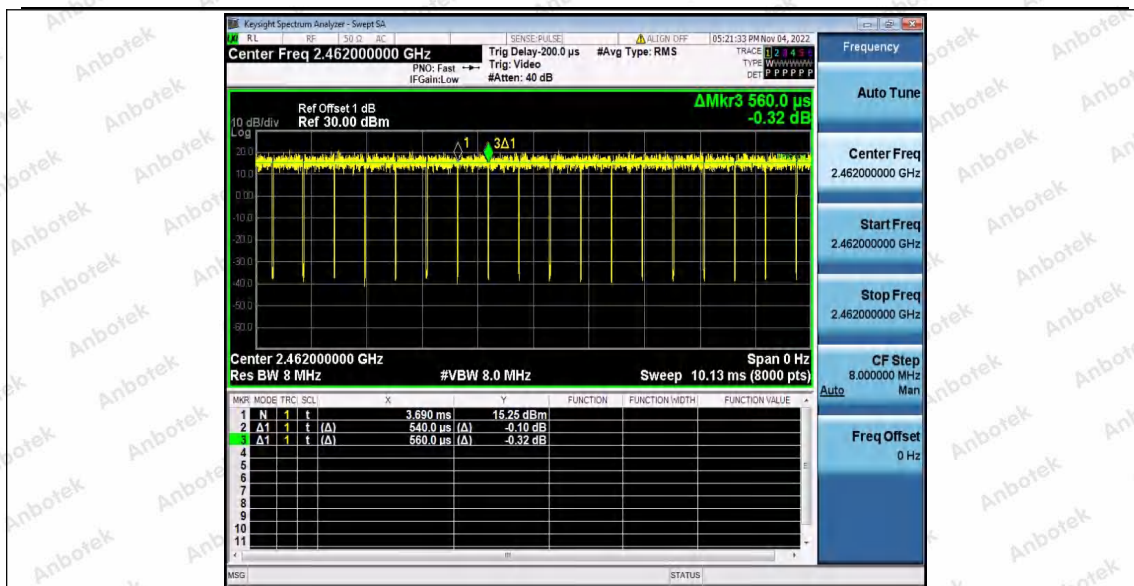


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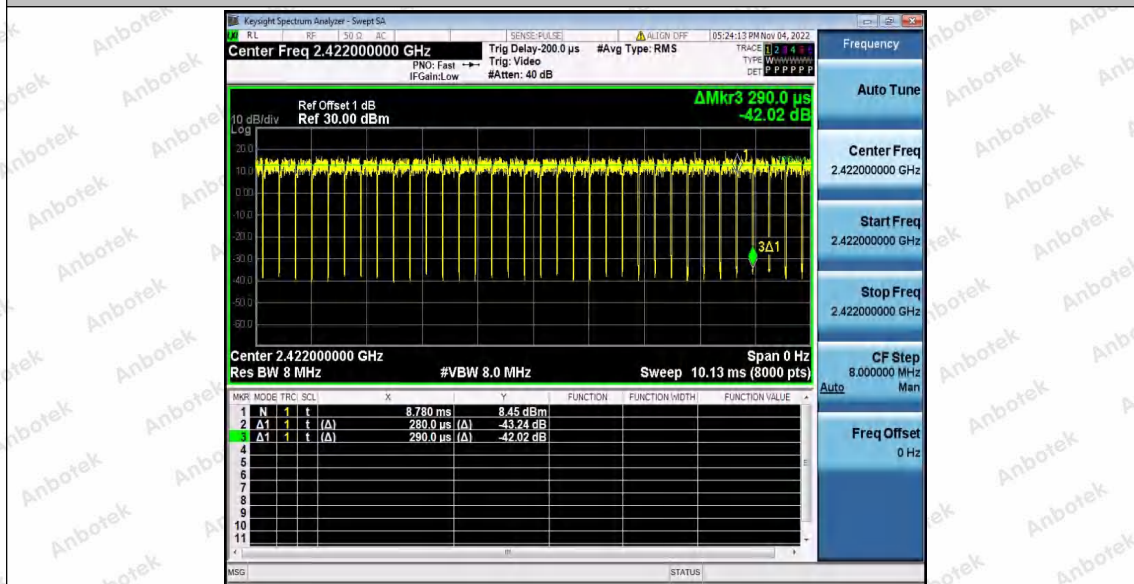


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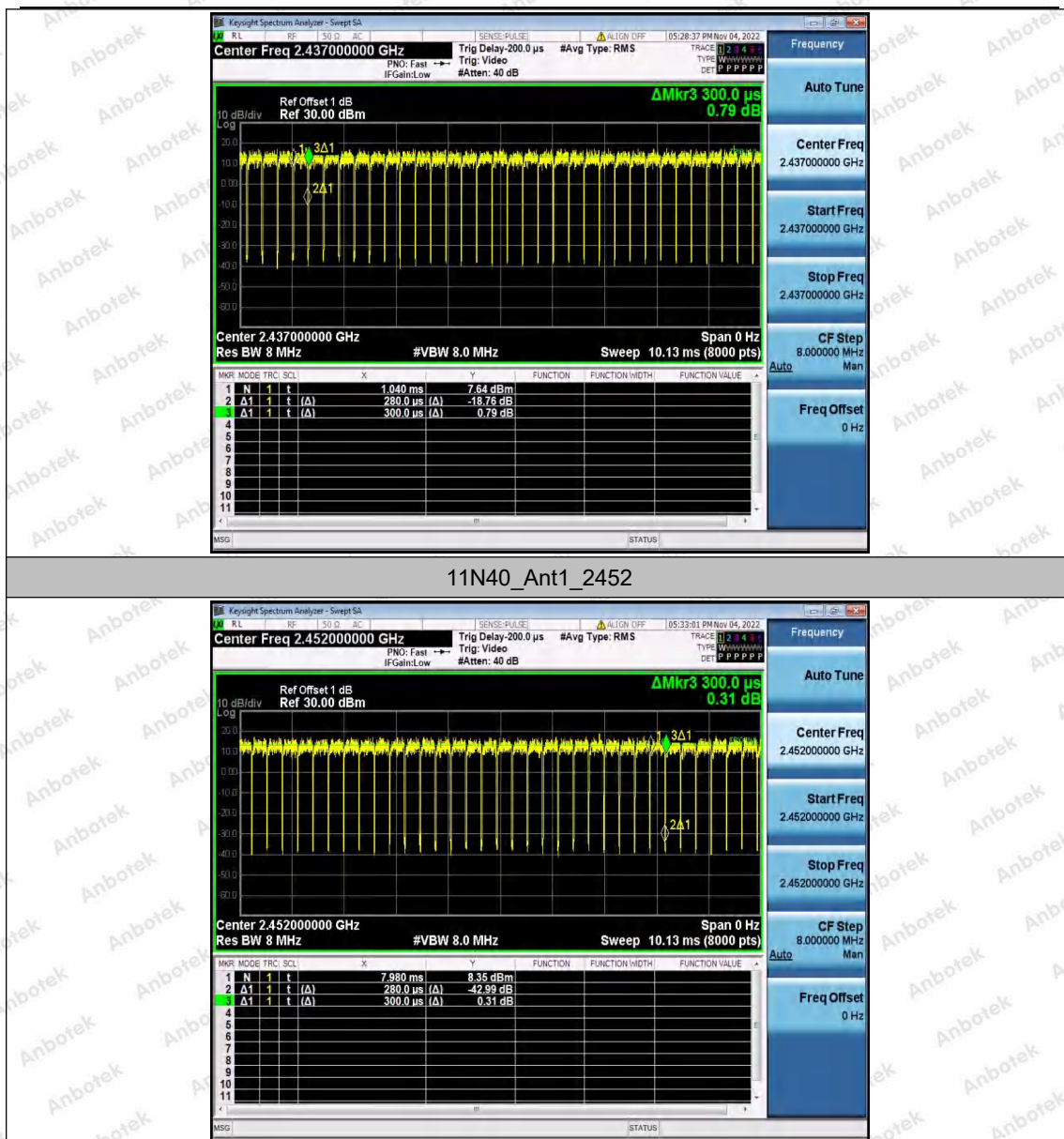


11N40_Ant1_2422



11N40_Ant1_2437





---End---

