

Appendix Test Data

Report No.:	18220WC20272103	Test Sample No.:	1-2-2
Start Test Date:	2022.11.25	Finish Test Date:	2022.12.6
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	9.600	2407.440	2417.040	≥0.5	PASS
		2437	9.040	2432.480	2441.520	≥0.5	PASS
		2462	9.640	2457.440	2467.080	≥0.5	PASS
11G	Ant1	2412	16.320	2403.840	2420.160	≥0.5	PASS
		2437	13.840	2430.680	2444.520	≥0.5	PASS
		2462	15.400	2454.760	2470.160	≥0.5	PASS
11N20	Ant1	2412	17.200	2403.240	2420.440	≥0.5	PASS
		2437	11.360	2431.920	2443.280	≥0.5	PASS
		2462	17.560	2453.240	2470.800	≥0.5	PASS
11N40	Ant1	2422	35.100	2404.480	2439.580	≥0.5	PASS
		2437	26.340	2425.720	2452.060	≥0.5	PASS
		2452	35.280	2434.300	2469.580	≥0.5	PASS



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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11G_Ant1_2412



11G_Ant1_2437





11G_Ant1_2462



11N20_Ant1_2412

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11N20_Ant1_2437



11N20_Ant1_2462



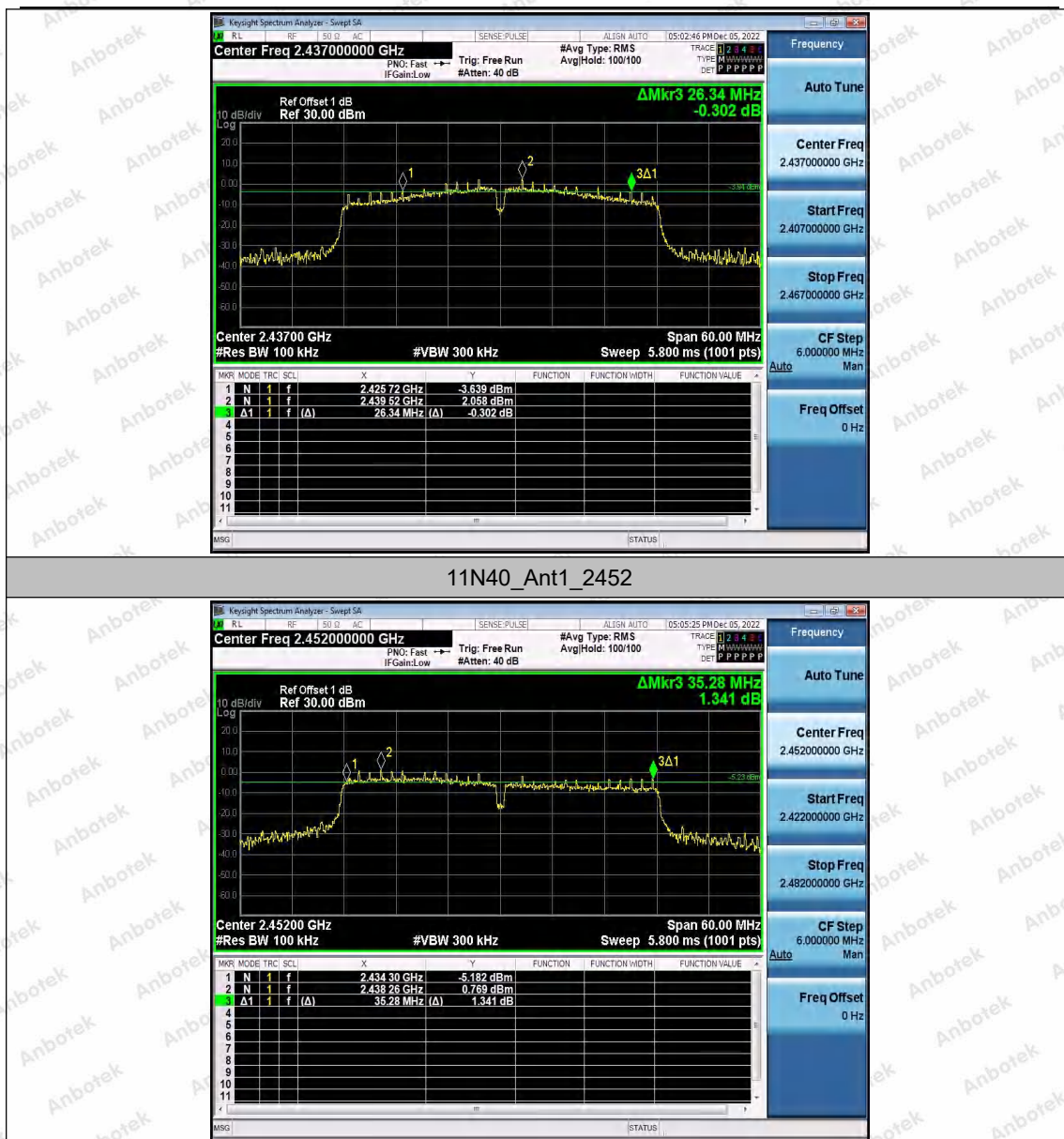


11N40_Ant1_2422



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	13.051	2405.4659	2418.5169
		2437	12.329	2430.9072	2443.2362
		2462	13.244	2455.4740	2468.7180
11G	Ant1	2412	17.133	2403.4008	2420.5338
		2437	16.540	2428.7996	2445.3396
		2462	17.402	2453.3594	2470.7614
11N20	Ant1	2412	17.968	2403.0335	2421.0015
		2437	17.569	2428.2675	2445.8365
		2462	18.272	2452.9294	2471.2014
11N40	Ant1	2422	36.125	2404.1801	2440.3051
		2437	35.331	2419.4834	2454.8144
		2452	36.163	2433.8637	2470.0267



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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11G_Ant1_2462



11N20_Ant1_2412





11N20_Ant1_2437



11N20_Ant1_2462

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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	16.19	≤30.00
		2437	19.33	≤30.00
		2462	18.27	≤30.00
11G	Ant1	2412	17.18	≤30.00
		2437	22.08	≤30.00
		2462	20.51	≤30.00
11N20	Ant1	2412	17.18	≤30.00
		2437	21.81	≤30.00
		2462	20.59	≤30.00
11N40	Ant1	2422	17.72	≤30.00
		2437	19.84	≤30.00
		2452	18.04	≤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	-9.98	≤8.00	PASS
		2437	-6.7	≤8.00	PASS
		2462	-7.33	≤8.00	PASS
11G	Ant1	2412	-14.25	≤8.00	PASS
		2437	-9.04	≤8.00	PASS
		2462	-10.91	≤8.00	PASS
11N20	Ant1	2412	-14.14	≤8.00	PASS
		2437	-8.55	≤8.00	PASS
		2462	-10.46	≤8.00	PASS
11N40	Ant1	2422	-12.51	≤8.00	PASS
		2437	-12.14	≤8.00	PASS
		2452	-12.35	≤8.00	PASS



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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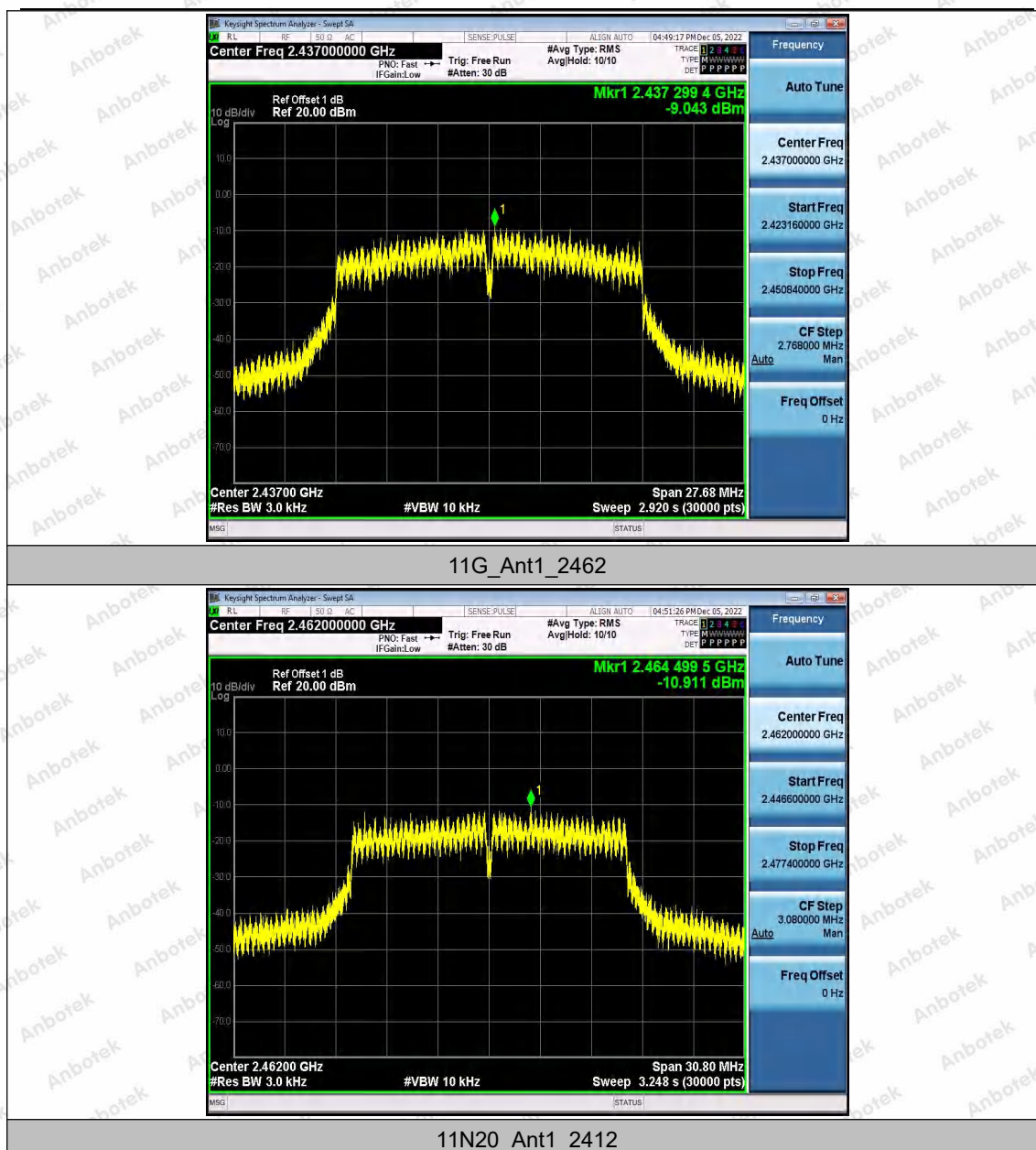


11G_Ant1_2412



11G_Ant1_2437





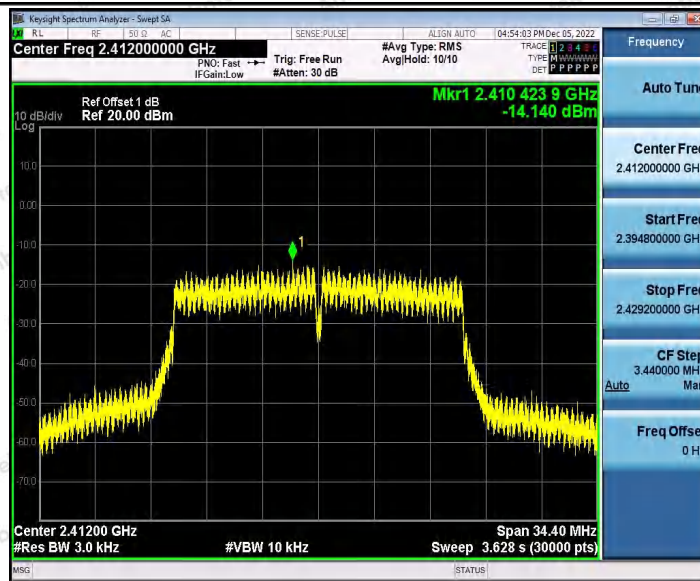
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11N20_Ant1_2437



11N20_Ant1_2462

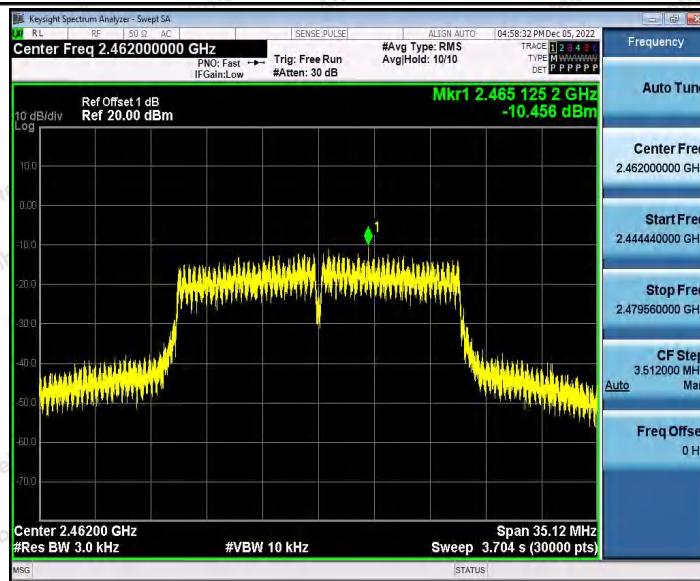
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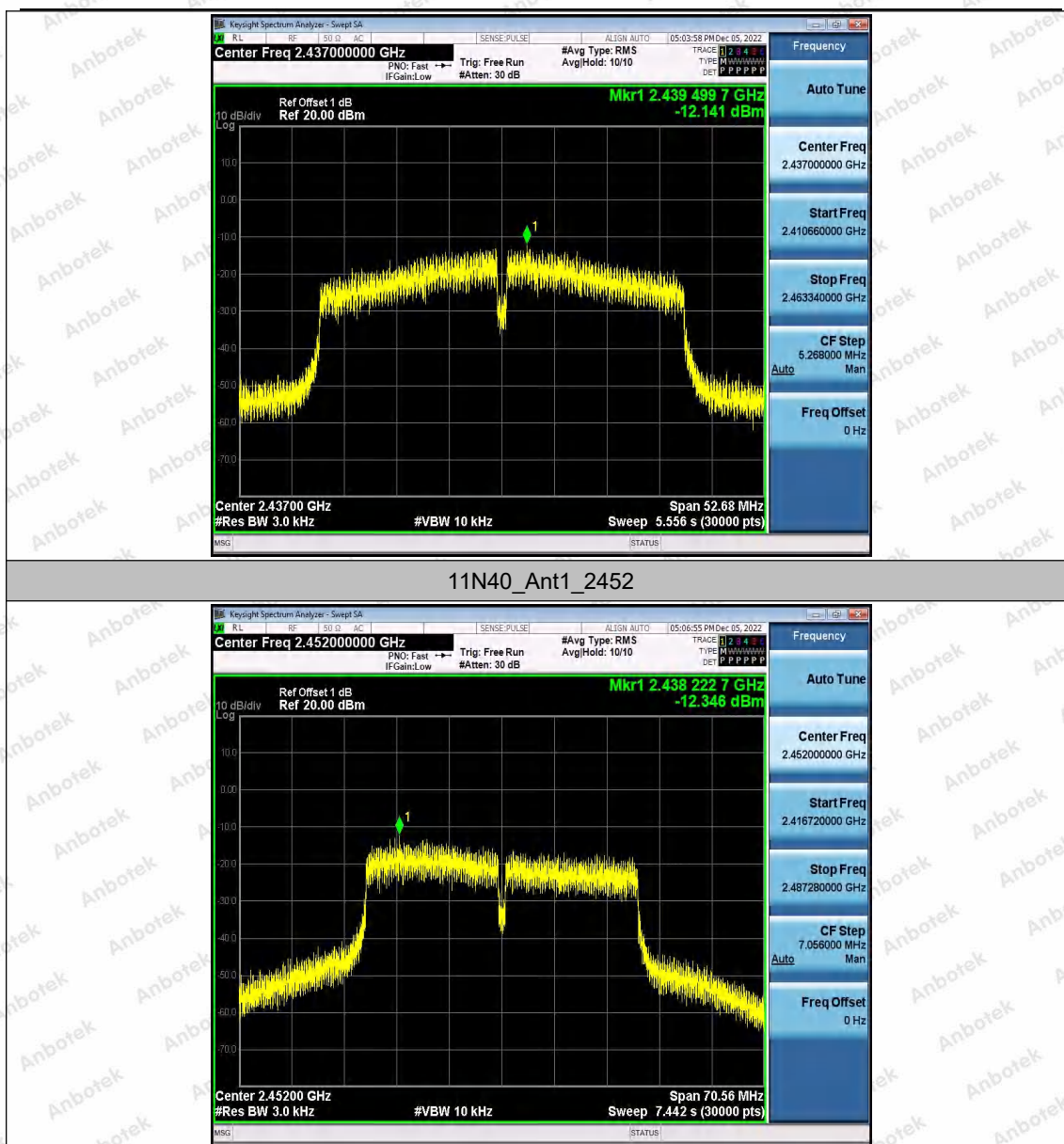


11N40_Ant1_2422



11N40_Ant1_2437





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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	4.34	-31.14	≤-15.67	PASS
		High	2462	5.81	-53.89	≤-14.19	PASS
11G	Ant1	Low	2412	-1.22	-31.07	≤-21.22	PASS
		High	2462	1.56	-42.89	≤-18.44	PASS
11N20	Ant1	Low	2412	-1.10	-30.49	≤-21.1	PASS
		High	2462	1.72	-39.79	≤-18.28	PASS
11N40	Ant1	Low	2422	1.50	-28.44	≤-18.5	PASS
		High	2452	1.32	-33.52	≤-18.68	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	3.25	3.25	---	PASS
			30~1000	3.25	-69.23	≤-16.75	PASS
			1000~26500	3.25	-43.81	≤-16.75	PASS
		2437	Reference	6.87	6.87	---	PASS
			30~1000	6.87	-68.75	≤-13.13	PASS
			1000~26500	6.87	-47.02	≤-13.13	PASS
		2462	Reference	6.41	6.41	---	PASS
			30~1000	6.41	-68.92	≤-13.59	PASS
			1000~26500	6.41	-40.4	≤-13.59	PASS
11G	Ant1	2412	Reference	-1.43	-1.43	---	PASS
			30~1000	-1.43	-67.96	≤-21.43	PASS
			1000~26500	-1.43	-53.23	≤-21.43	PASS
		2437	Reference	2.04	2.04	---	PASS
			30~1000	2.04	-68.08	≤-17.96	PASS
			1000~26500	2.04	-53.21	≤-17.96	PASS
		2462	Reference	0.63	0.63	---	PASS
			30~1000	0.63	-68.35	≤-19.37	PASS
			1000~26500	0.63	-52.02	≤-19.37	PASS
11N20	Ant1	2412	Reference	-4.41	-4.41	---	PASS
			30~1000	-4.41	-67.95	≤-24.41	PASS
			1000~26500	-4.41	-52.58	≤-24.41	PASS
		2437	Reference	1.35	1.35	---	PASS
			30~1000	1.35	-68.96	≤-18.65	PASS
			1000~26500	1.35	-53.32	≤-18.65	PASS
		2462	Reference	-0.82	-0.82	---	PASS
			30~1000	-0.82	-68.63	≤-20.82	PASS
			1000~26500	-0.82	-52.47	≤-20.82	PASS
11N40	Ant1	2422	Reference	-0.17	-0.17	---	PASS
			30~1000	-0.17	-68.66	≤-20.17	PASS
			1000~26500	-0.17	-53.04	≤-20.17	PASS
		2437	Reference	2.03	2.03	---	PASS
			30~1000	2.03	-68.21	≤-17.97	PASS
			1000~26500	2.03	-52.93	≤-17.97	PASS
		2452	Reference	-1.85	-1.85	---	PASS
			30~1000	-1.85	-67.16	≤-21.85	PASS
			1000~26500	-1.85	-53.32	≤-21.85	PASS

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Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

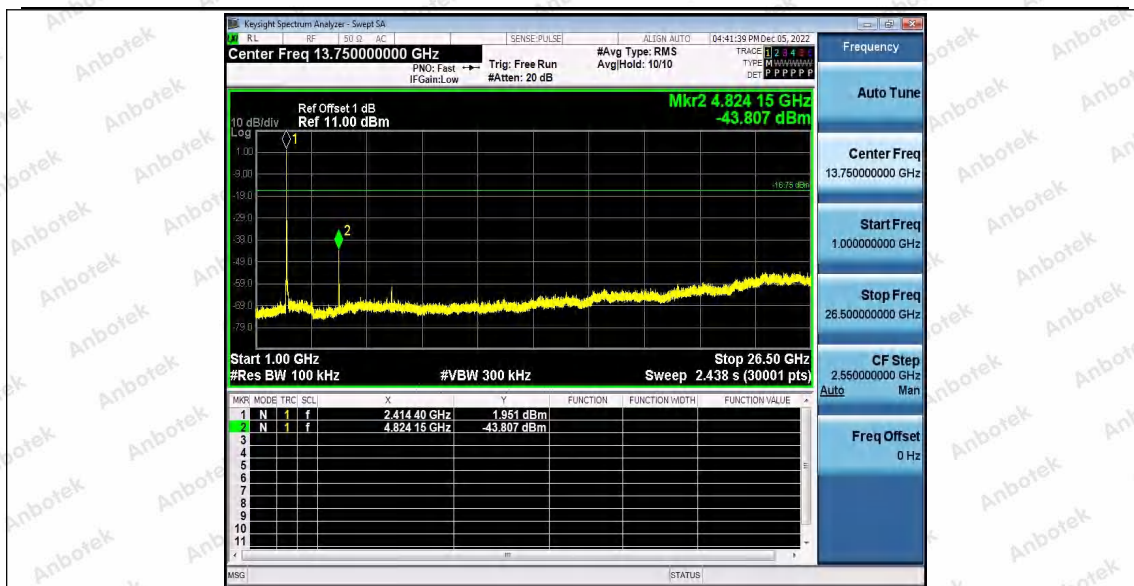
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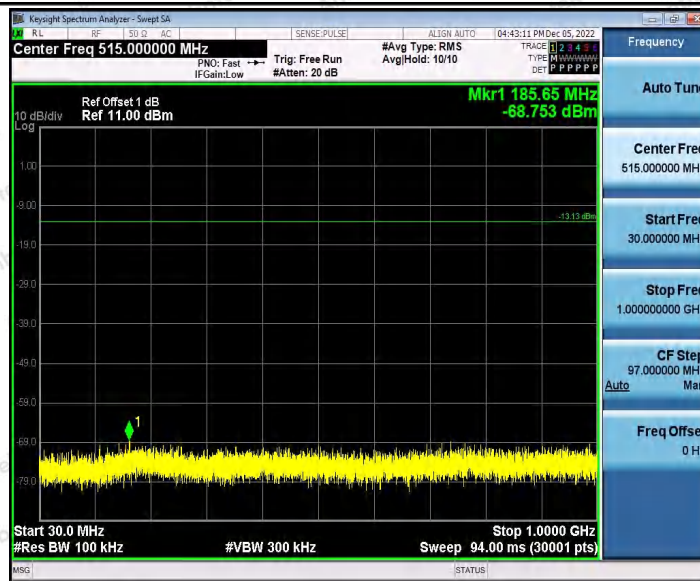


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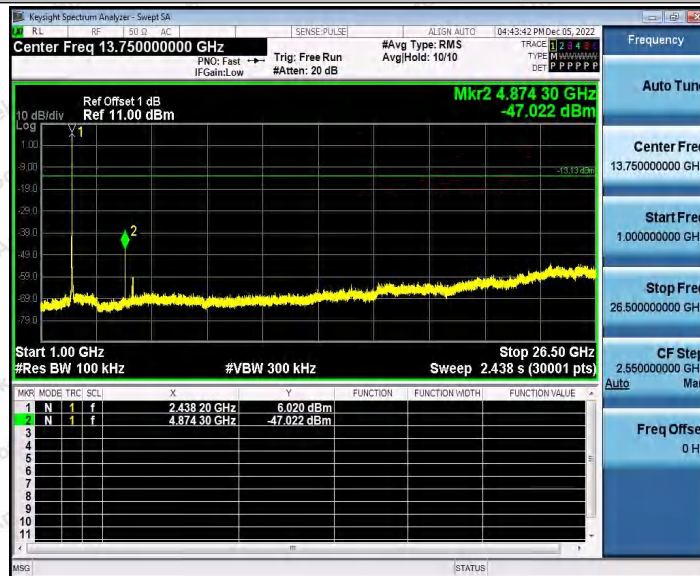


11B_Ant1_2437_30~1000





11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference

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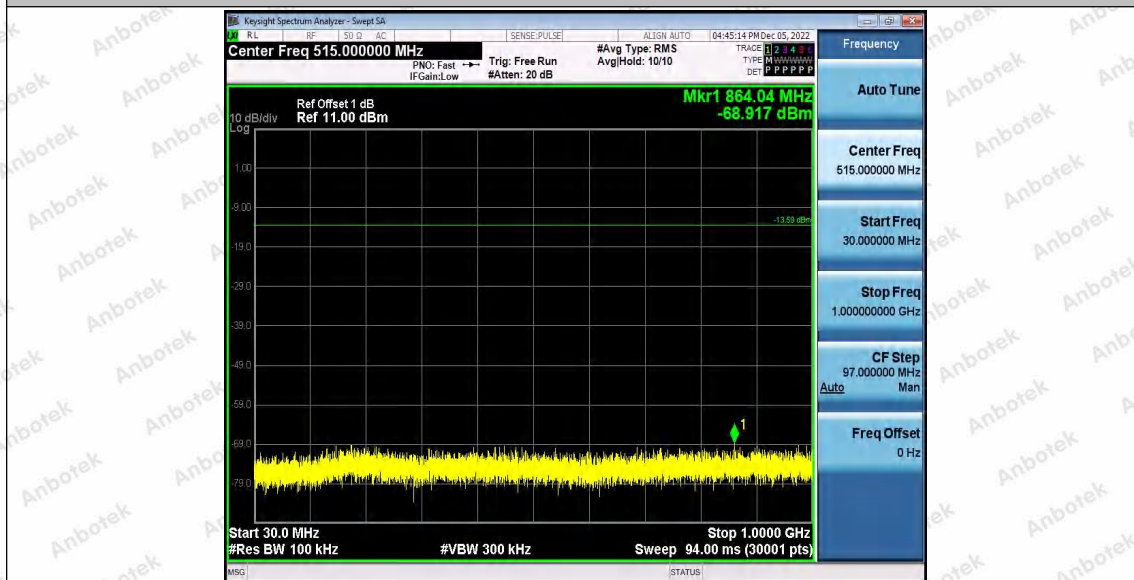


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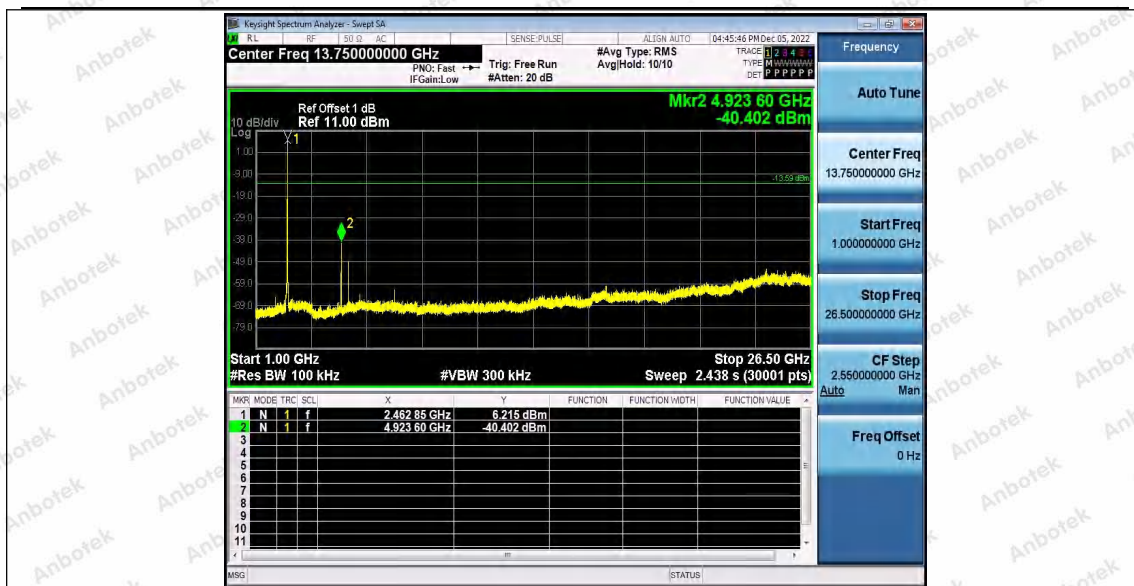


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11B_Ant1_2462_1000~26500



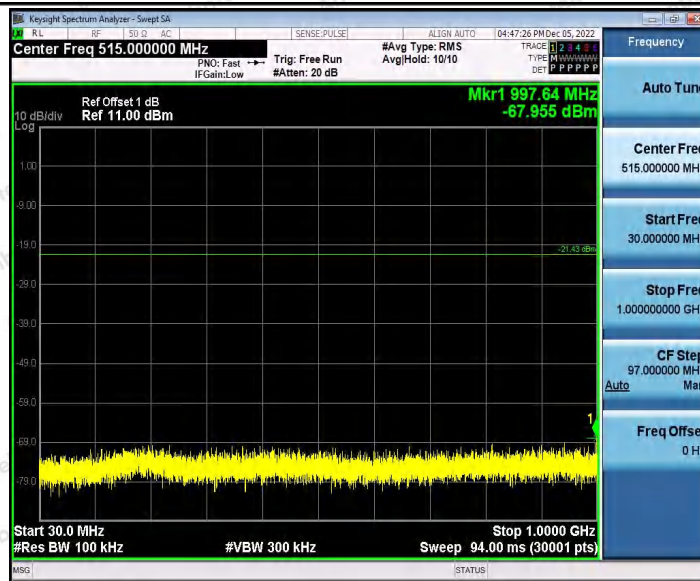


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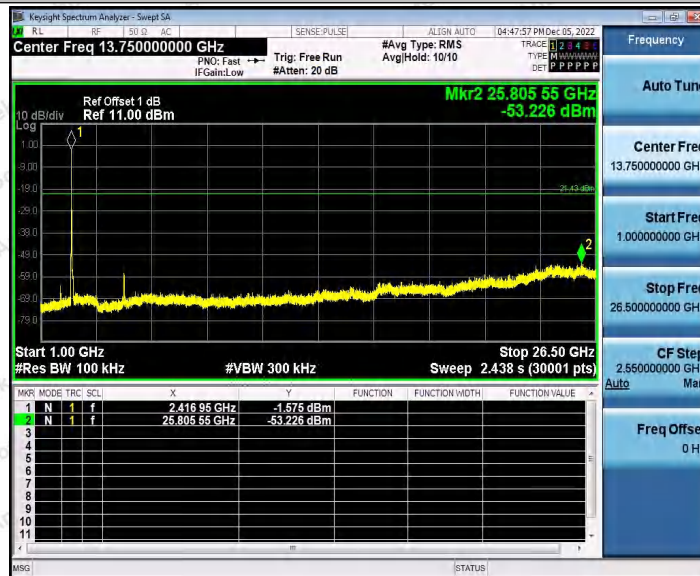


11G_Ant1_2412_30~1000





11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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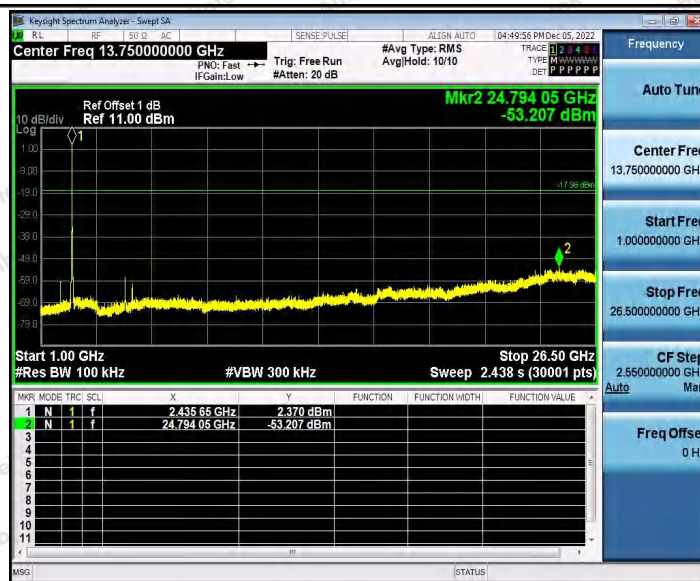


11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500





11G_Ant1_2462_0~Reference



11G_Ant1_2462_30~1000

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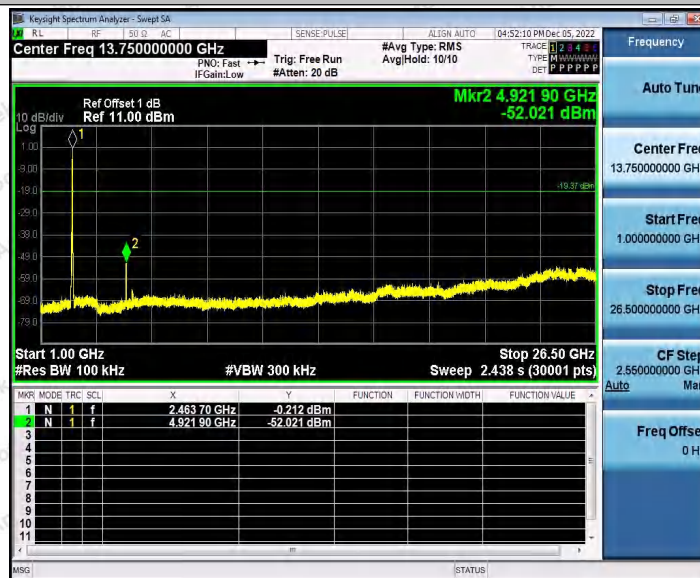


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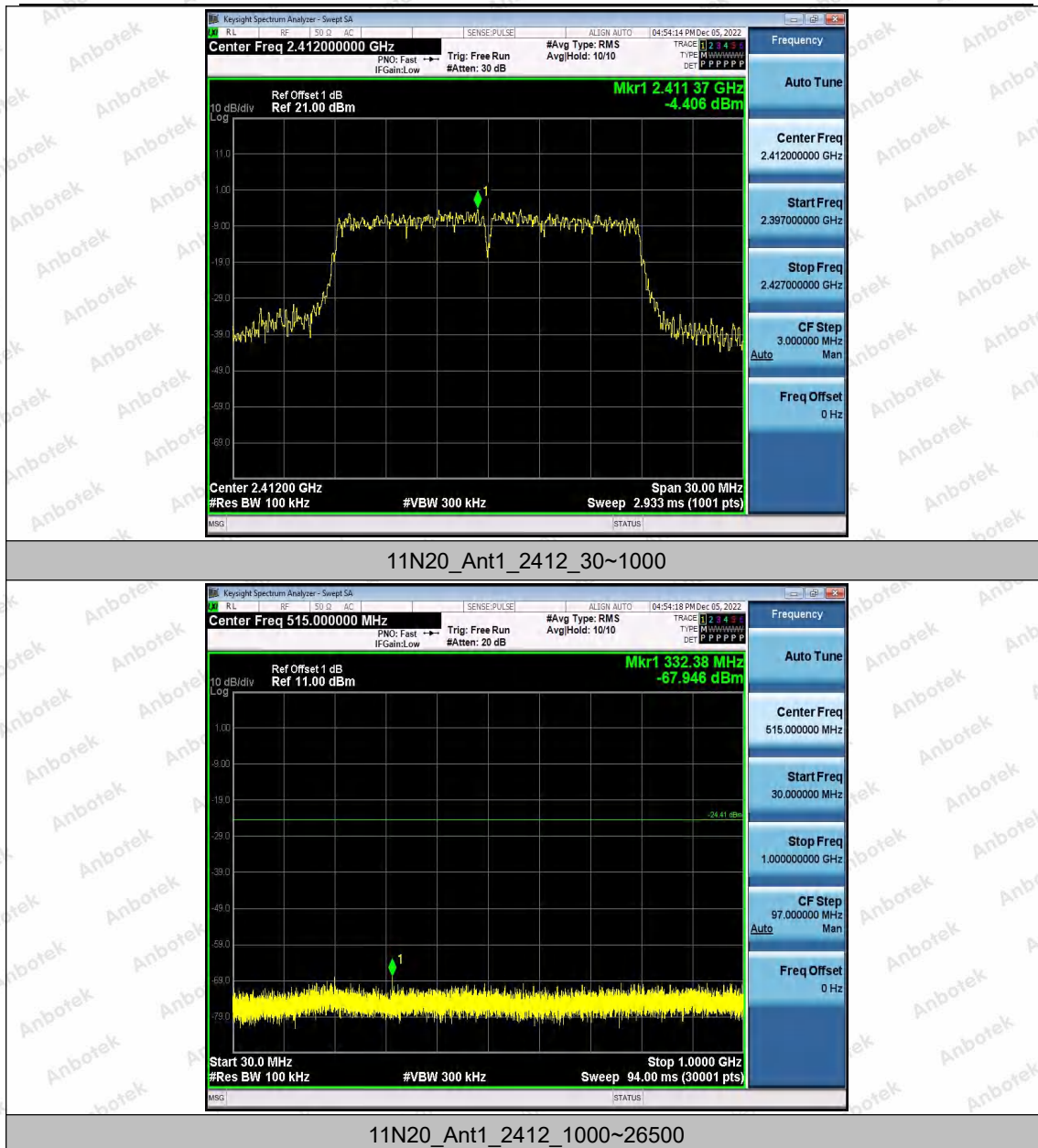


11G_Ant1_2462_1000~26500



11N20_Ant1_2412_0~Reference



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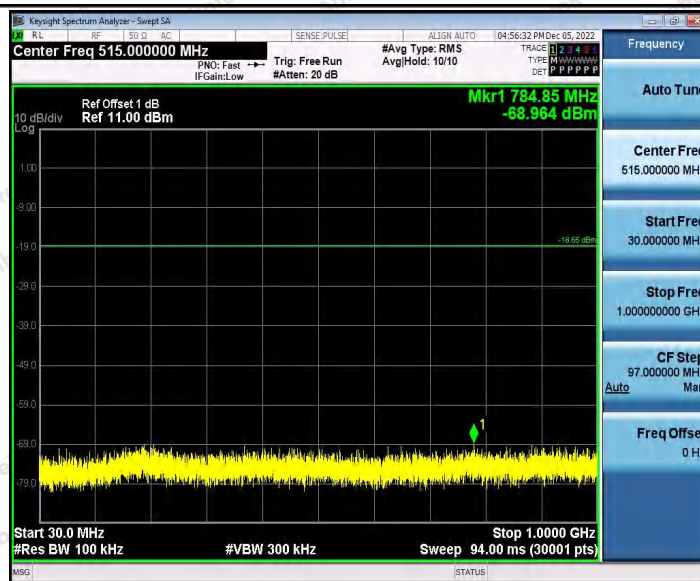


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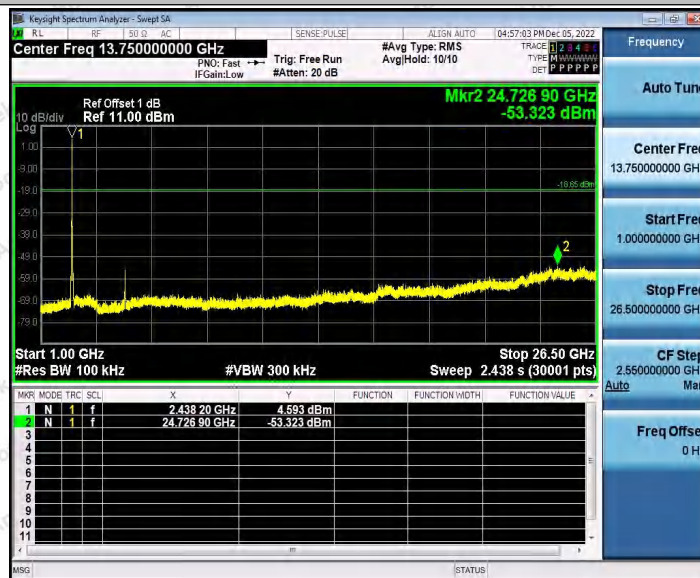


11N20_Ant1_2437_30~1000





11N20_Ant1_2437_1000~26500



11N20_Ant1_2462_0~Reference

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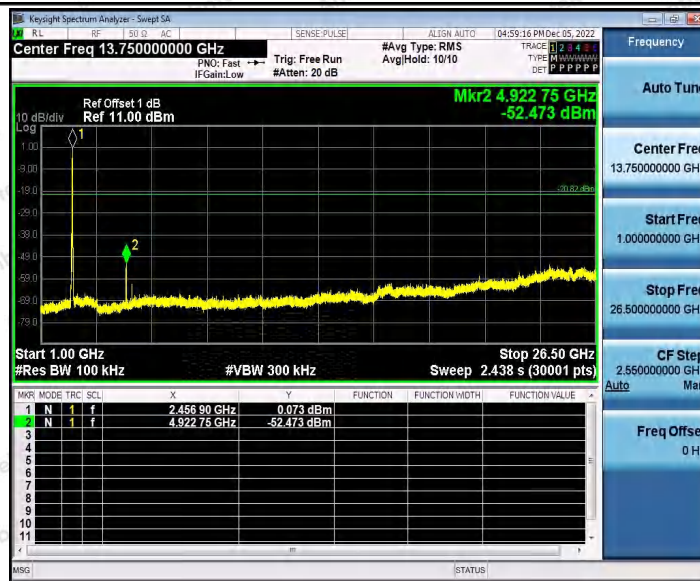


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11N20_Ant1_2462_1000~26500





11N40_Ant1_2422_0~Reference



11N40_Ant1_2422_30~1000

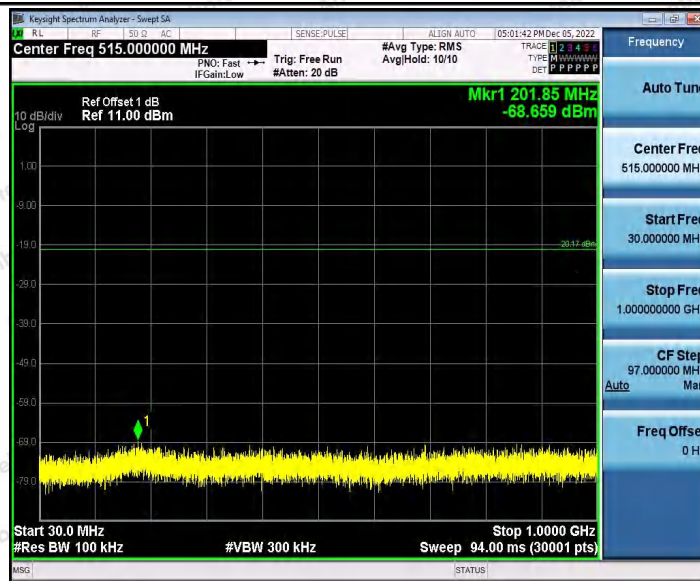
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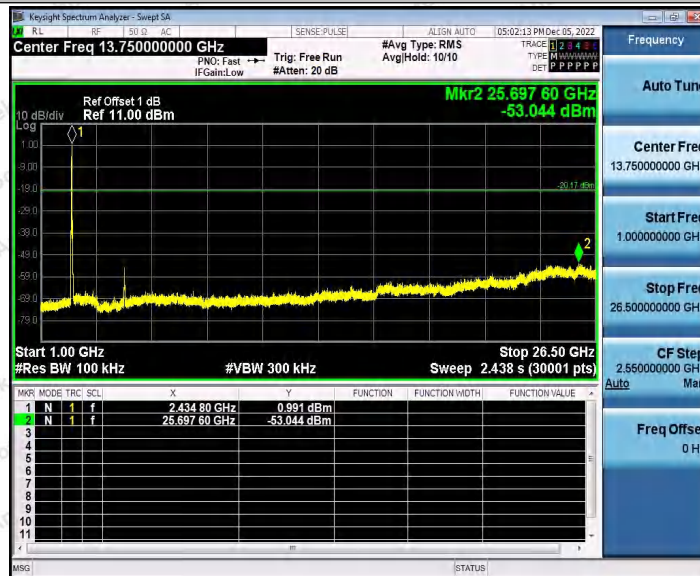


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11N40_Ant1_2422_1000~26500



11N40_Ant1_2437_0~Reference

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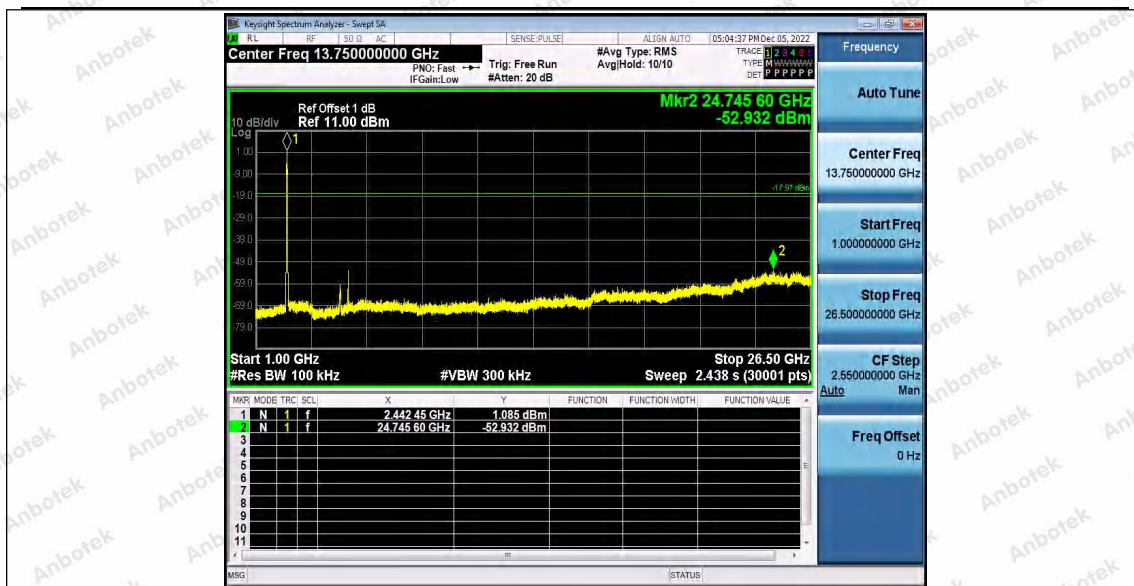
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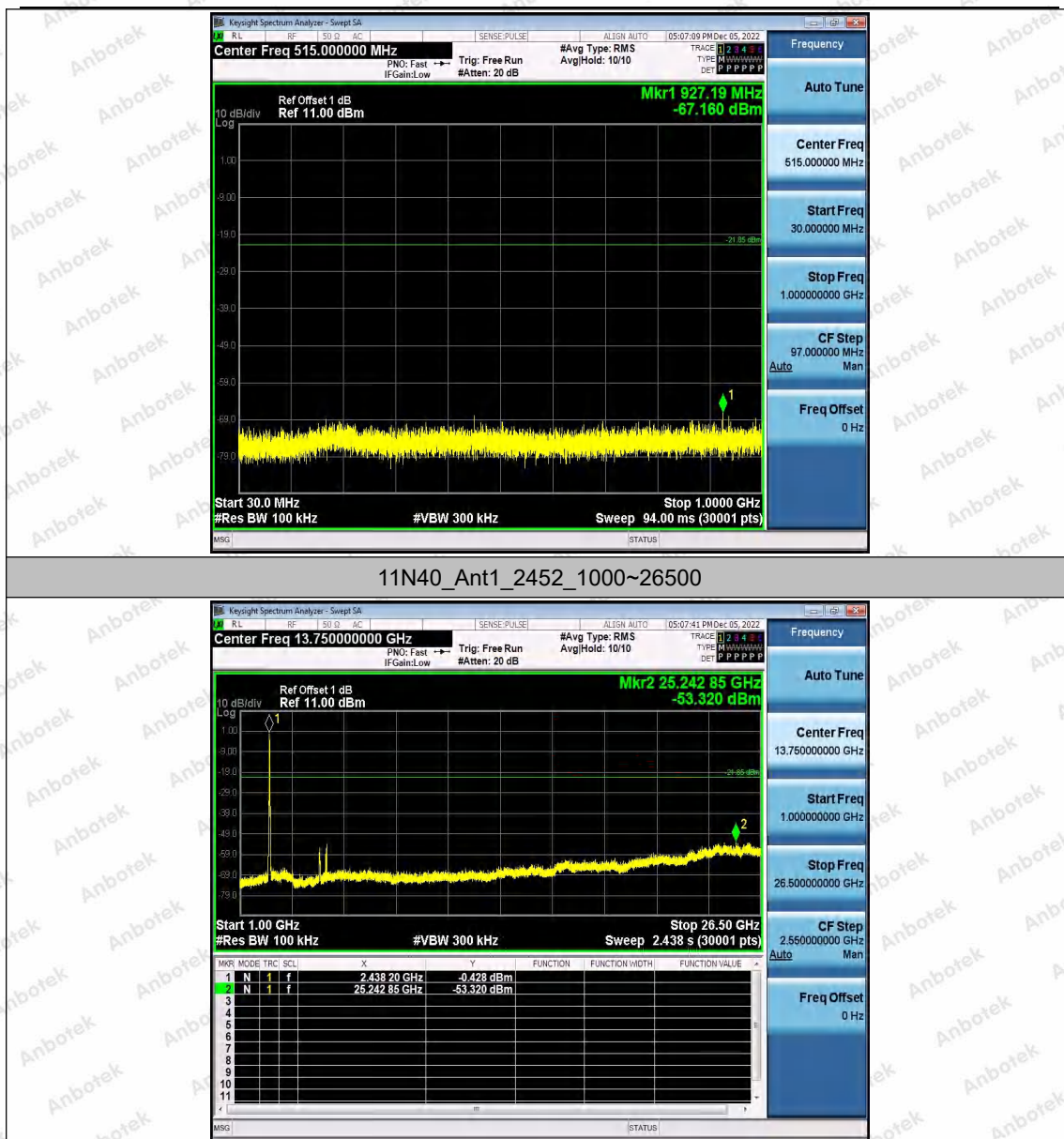


11N40_Ant1_2452_0~Reference



11N40_Ant1_2452_30~1000





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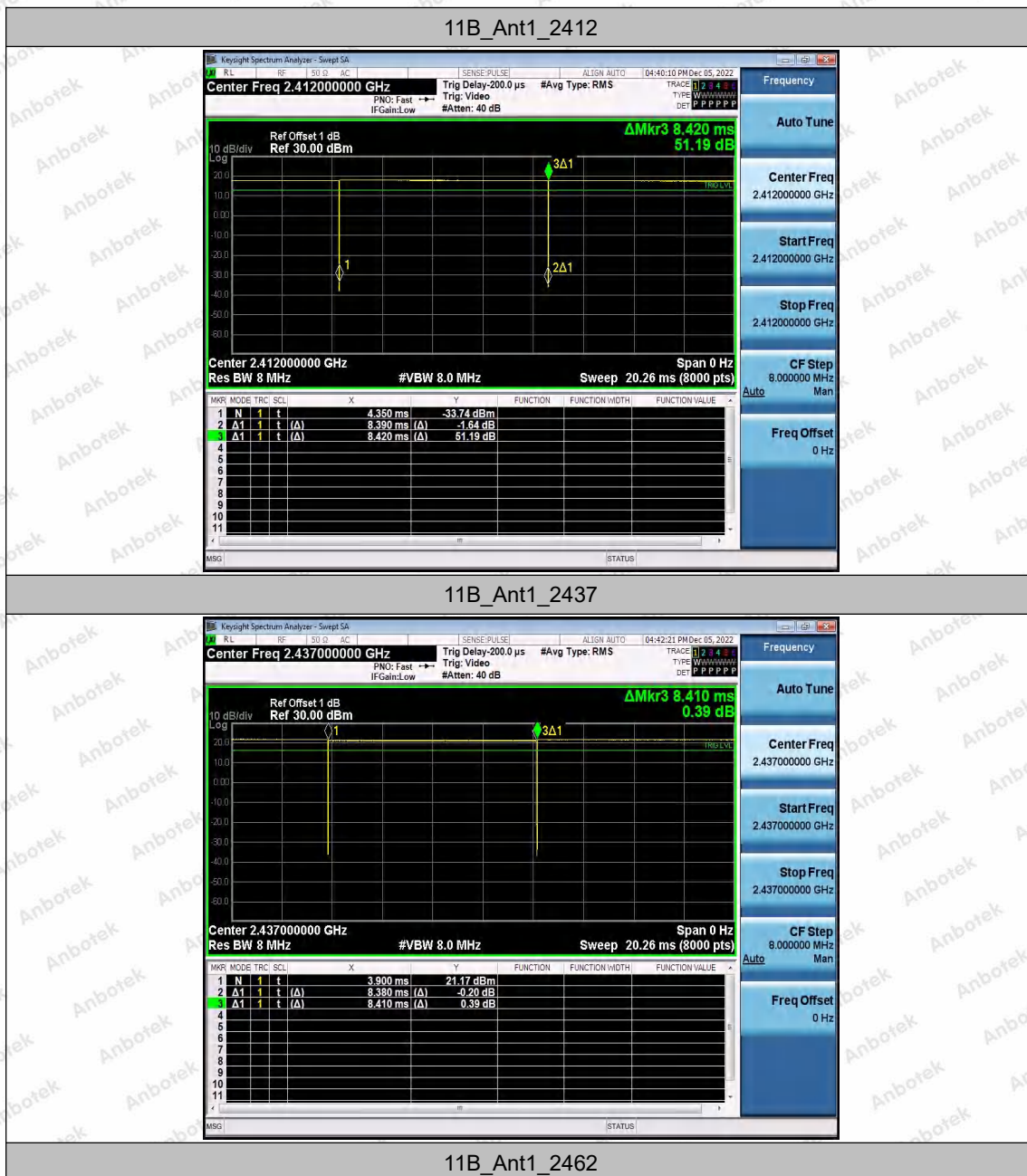
Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.39	8.42	99.64	0.02
		2437	8.38	8.41	99.64	0.02
		2462	8.38	8.41	99.64	0.02
11G	Ant1	2412	1.39	1.43	97.20	0.12
		2437	1.39	1.43	97.20	0.12
		2462	1.39	1.43	97.20	0.12
11N20	Ant1	2412	1.30	1.33	97.74	0.10
		2437	1.30	1.33	97.74	0.10
		2462	1.30	1.34	97.01	0.13
11N40	Ant1	2422	0.64	0.68	94.12	0.26
		2437	0.65	0.68	95.59	0.20
		2452	0.64	0.68	94.12	0.26



Test Graphs



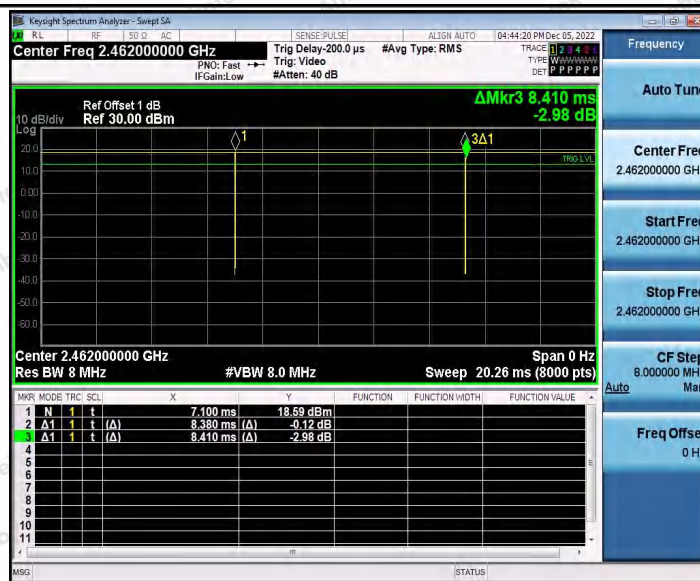
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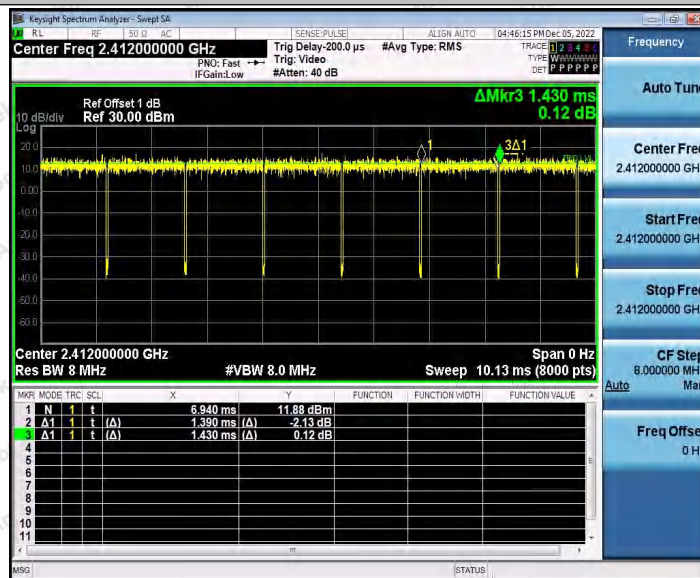


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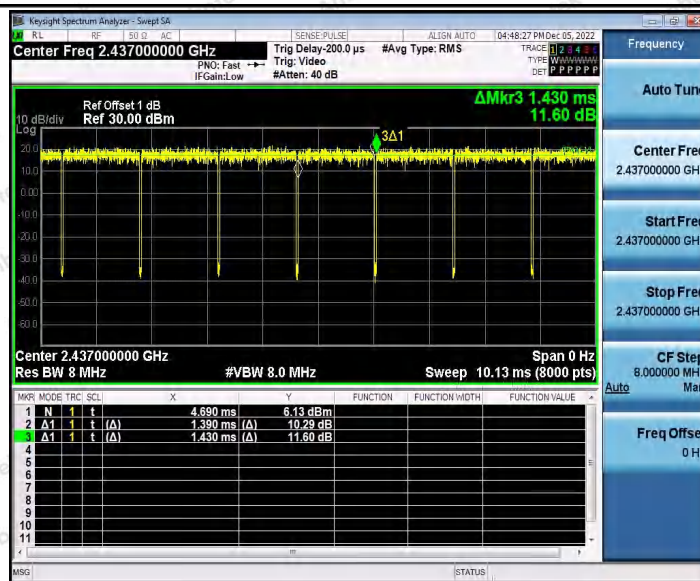


11G_Ant1_2412

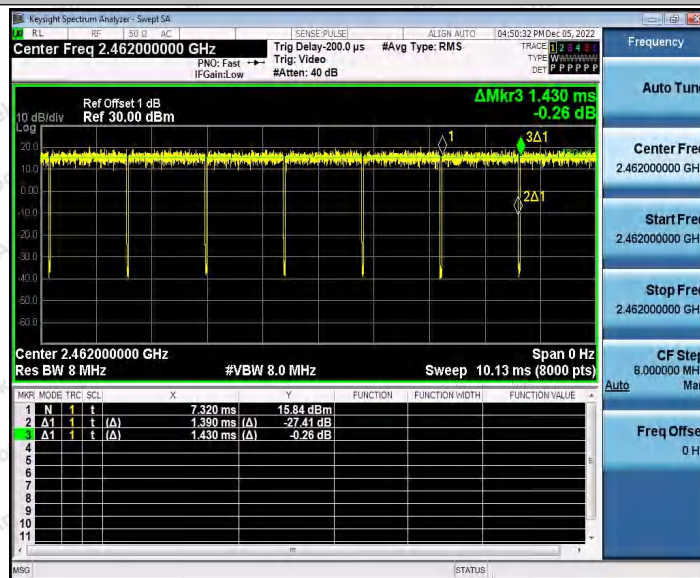


11G_Ant1_2437





11G_Ant1_2462



11N20_Ant1_2412

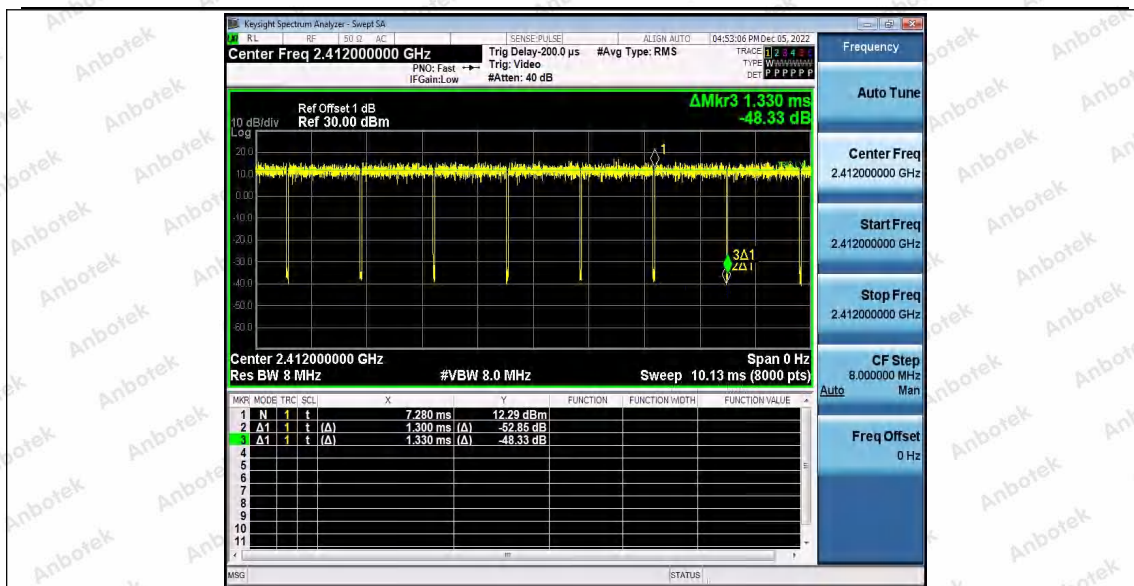
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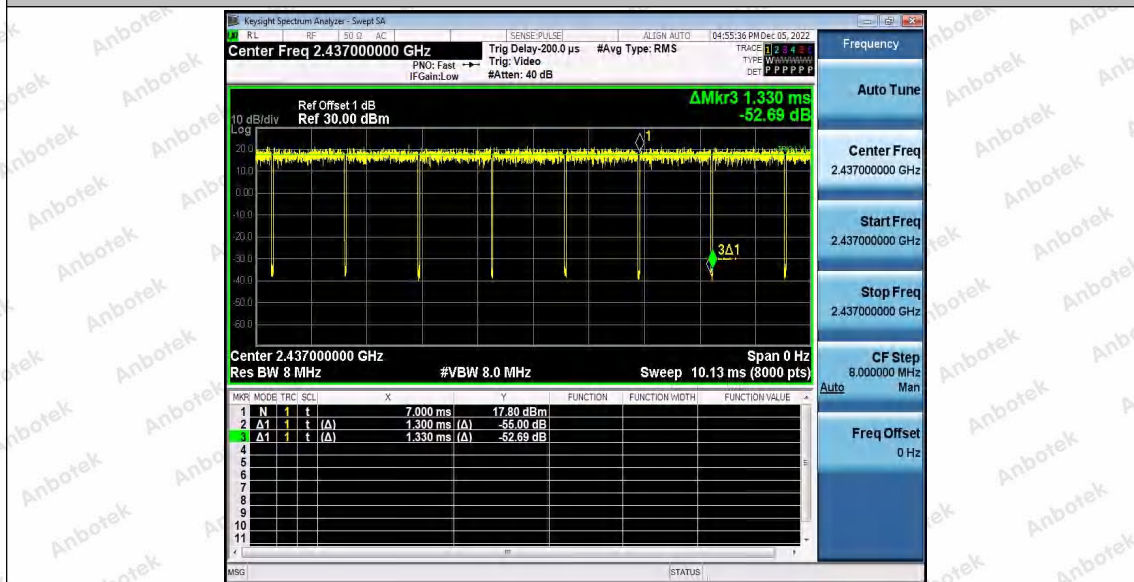


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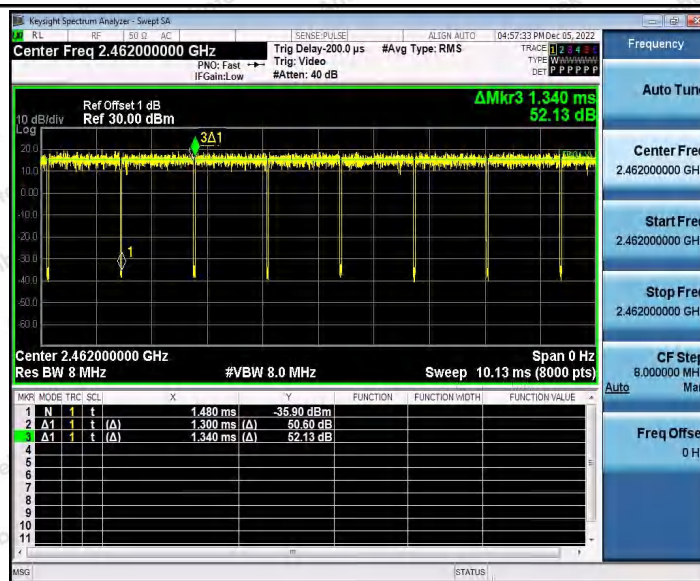


11N20_Ant1_2437

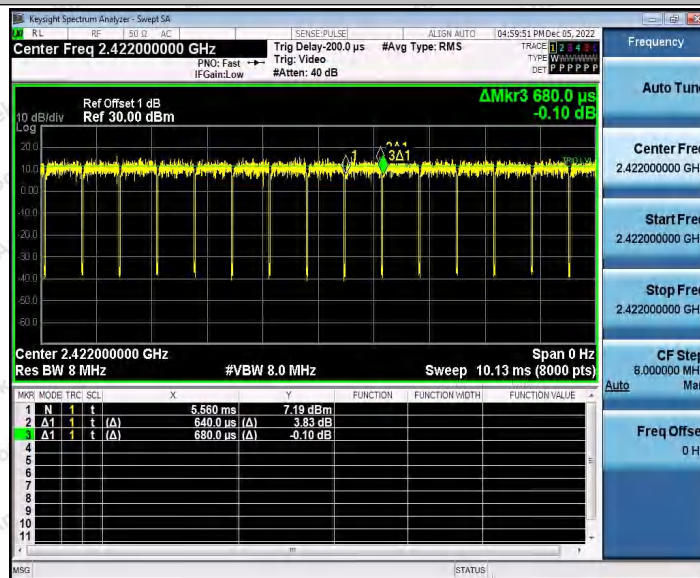


11N20_Ant1_2462



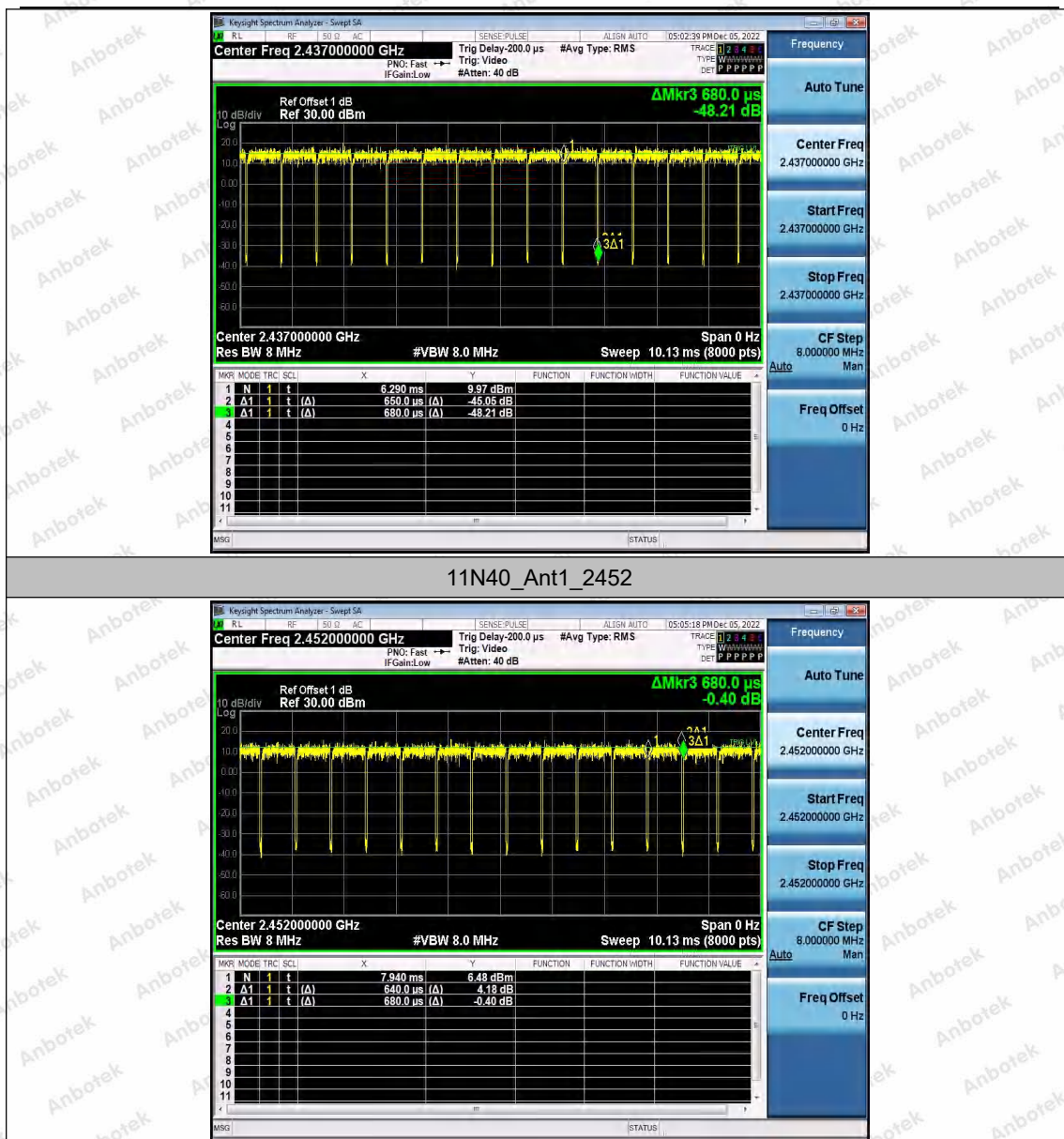


11N40_Ant1_2422



11N40_Ant1_2437





---End---

