

Appendix Test Data

Report No.:	182512C400342101	Test Sample No.:	1-2-2
Start Test Date:	2024.11.18	Finish Test Date:	2025.04.21
Test Engineer:	<i>Joker Huang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	22.2°C	Relative Humidity:	50%
Pressure:	101kPa		

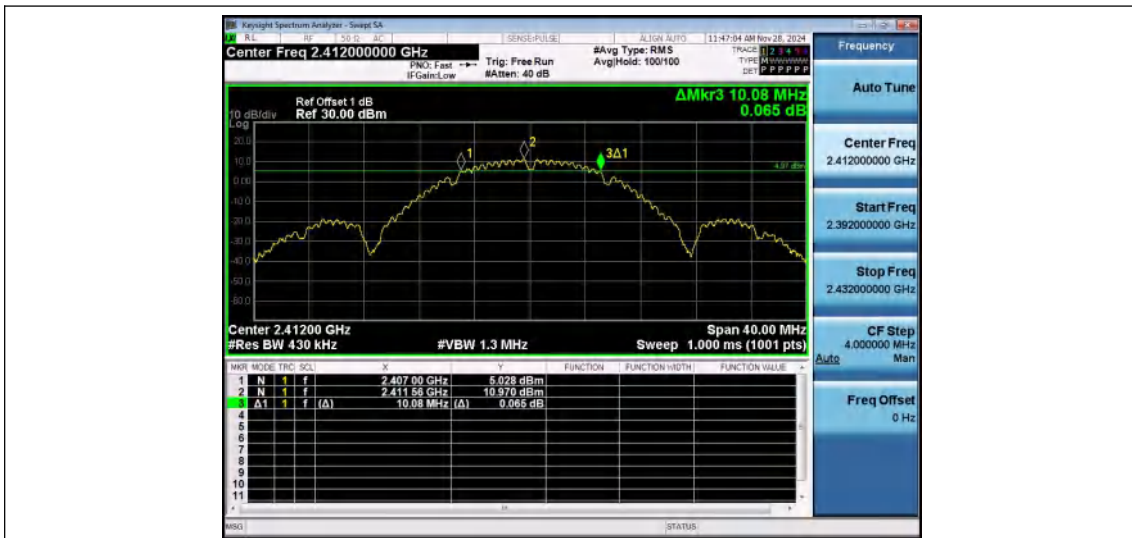
Appendix A: 6dB Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	6dB BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.080	2407.000	2417.080	0.5	PASS
11B	Ant1	2437	9.760	2431.960	2441.720	0.5	PASS
11B	Ant1	2462	9.680	2457.000	2466.680	0.5	PASS
11G	Ant1	2412	16.360	2403.800	2420.160	0.5	PASS
11G	Ant1	2437	16.160	2428.840	2445.000	0.5	PASS
11G	Ant1	2462	16.200	2453.840	2470.040	0.5	PASS
11N20SISO	Ant1	2412	17.520	2403.280	2420.800	0.5	PASS
11N20SISO	Ant1	2437	17.320	2428.280	2445.600	0.5	PASS
11N20SISO	Ant1	2462	17.560	2453.200	2470.760	0.5	PASS
11N40SISO	Ant1	2422	36.160	2403.920	2440.080	0.5	PASS
11N40SISO	Ant1	2437	35.760	2419.000	2454.760	0.5	PASS
11N40SISO	Ant1	2452	36.160	2433.840	2470.000	0.5	PASS
11AX20SISO	Ant1	2412	18.400	2402.840	2421.240	0.5	PASS
11AX20SISO	Ant1	2437	18.480	2427.720	2446.200	0.5	PASS
11AX20SISO	Ant1	2462	18.040	2452.760	2470.800	0.5	PASS
11AX40SISO	Ant1	2422	36.400	2403.280	2439.680	0.5	PASS
11AX40SISO	Ant1	2437	37.280	2418.360	2455.640	0.5	PASS
11AX40SISO	Ant1	2452	37.280	2433.120	2470.400	0.5	PASS



Test Graphs



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS



11B-Ant1-2462-PASS

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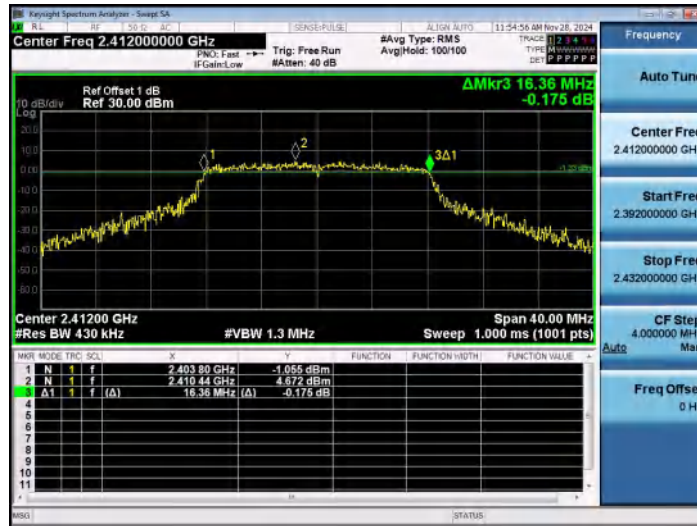


Hotline

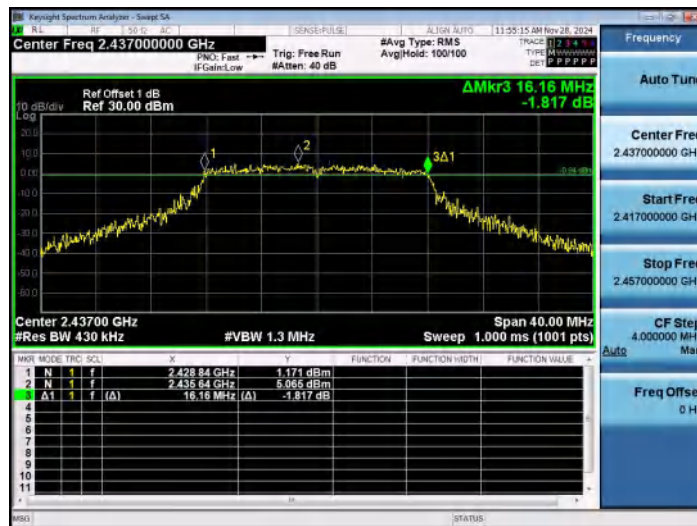
400-003-0500

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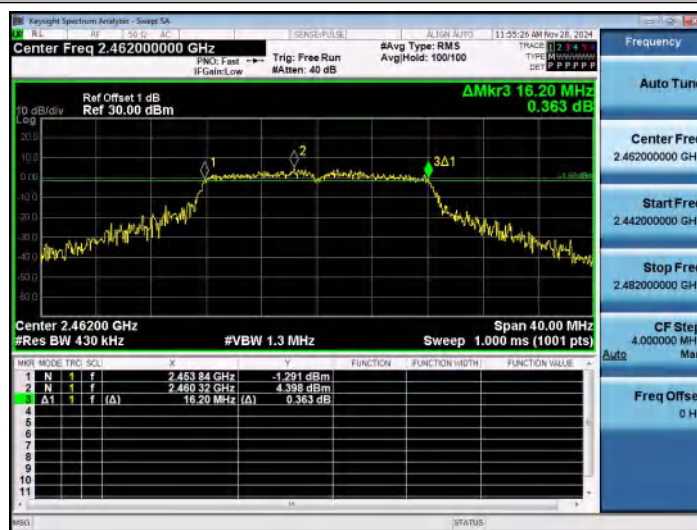




11G-Ant1-2412-PASS



11G-Ant1-2437-PASS



11G-Ant1-2462-PASS





11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2437-PASS



11N20SISO-Ant1-2462-PASS





11N40SISO-Ant1-2422-PASS

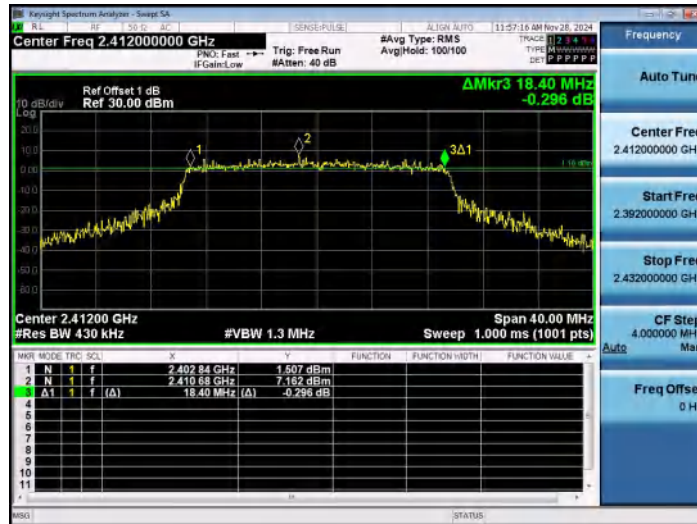


11N40SISO-Ant1-2437-PASS

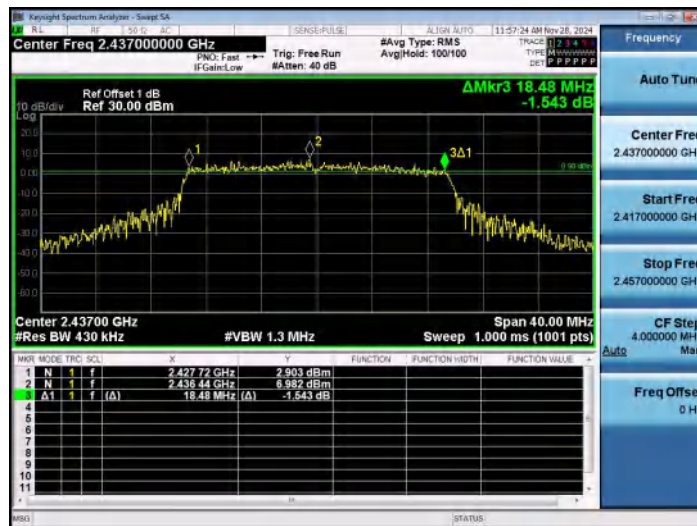


11N40SISO-Ant1-2452-PASS

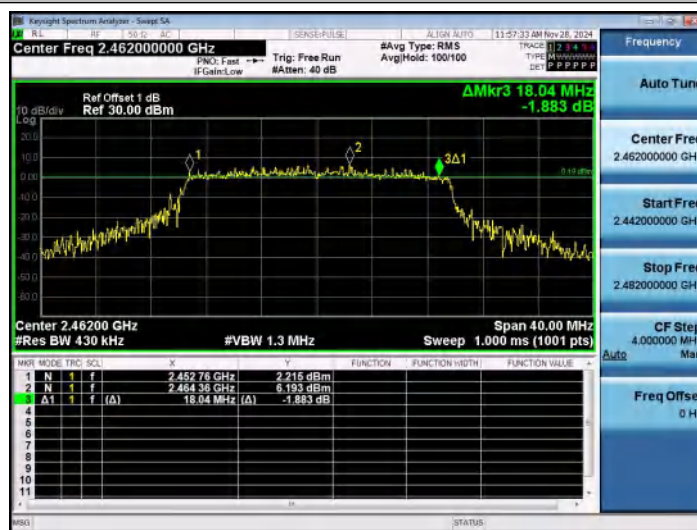




11AX20SISO-Ant1-2412-PASS



11AX20SISO-Ant1-2437-PASS



11AX20SISO-Ant1-2462-PASS

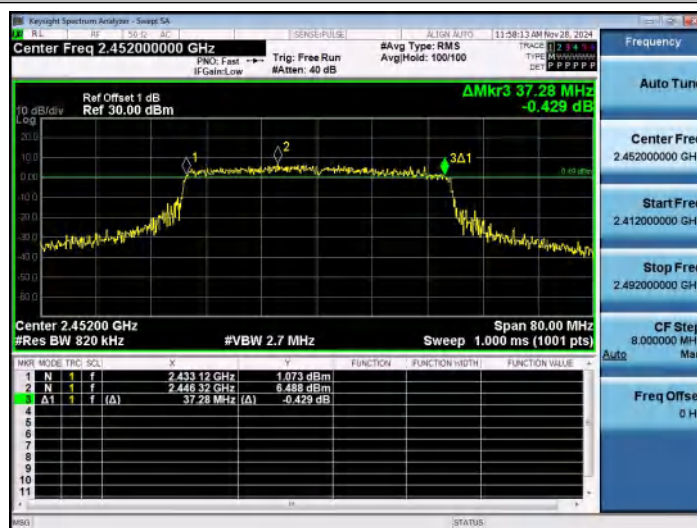




11AX40ISO-Ant1-2422-PASS



11AX40ISO-Ant1-2437-PASS



11AX40ISO-Ant1-2452-PASS



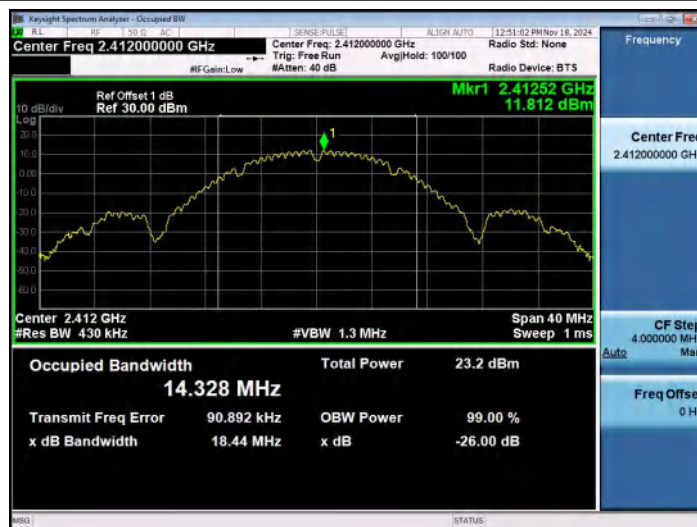
Appendix B: 99% Occupied Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.328	2404.9269	2419.2549	---	PASS
11B	Ant1	2437	14.399	2429.8229	2444.2219	---	PASS
11B	Ant1	2462	14.176	2454.8976	2469.0736	---	PASS
11G	Ant1	2412	16.975	2403.3834	2420.3584	---	PASS
11G	Ant1	2437	16.967	2428.4186	2445.3856	---	PASS
11G	Ant1	2462	16.878	2453.5679	2470.4459	---	PASS
11N20SISO	Ant1	2412	18.202	2402.8954	2421.0974	---	PASS
11N20SISO	Ant1	2437	18.414	2427.7378	2446.1518	---	PASS
11N20SISO	Ant1	2462	18.370	2452.7672	2471.1372	---	PASS
11N40SISO	Ant1	2422	36.495	2403.7326	2440.2276	---	PASS
11N40SISO	Ant1	2437	36.592	2418.6964	2455.2884	---	PASS
11N40SISO	Ant1	2452	36.516	2433.6800	2470.1960	---	PASS
11AX20SISO	Ant1	2412	19.075	2402.4997	2421.5747	---	PASS
11AX20SISO	Ant1	2437	19.048	2427.5089	2446.5569	---	PASS
11AX20SISO	Ant1	2462	19.047	2452.4901	2471.5371	---	PASS
11AX40SISO	Ant1	2422	37.885	2403.0590	2440.9440	---	PASS
11AX40SISO	Ant1	2437	37.872	2418.0046	2455.8766	---	PASS
11AX40SISO	Ant1	2452	37.869	2433.0205	2470.8895	---	PASS



Test Graphs



11B-Ant1-2412



11B-Ant1-2437



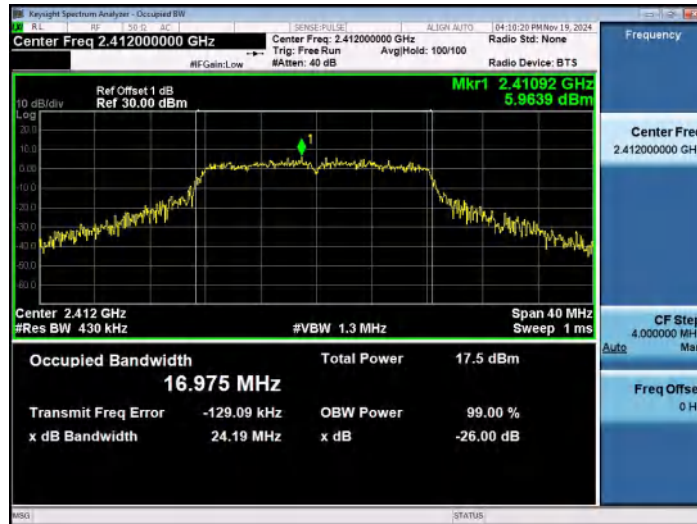
11B-Ant1-2462

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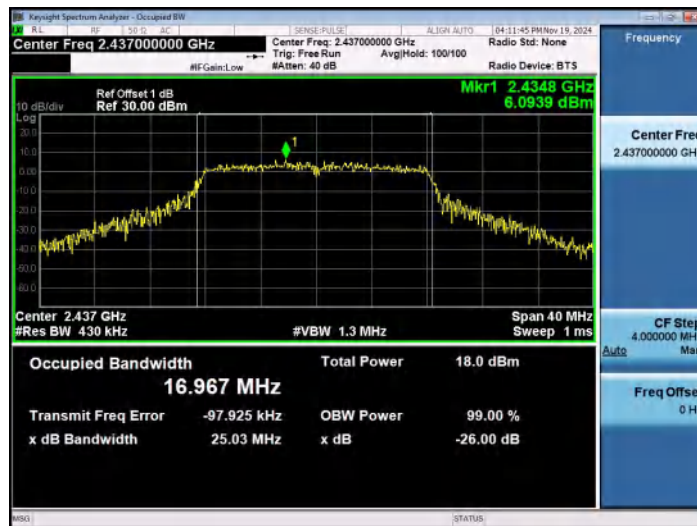
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Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
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11G-Ant1-2412



11G-Ant1-2437



11G-Ant1-2462





11N20SISO-Ant1-2412



11N20SISO-Ant1-2437



11N20SISO-Ant1-2462





11N40SISO-Ant1-2422

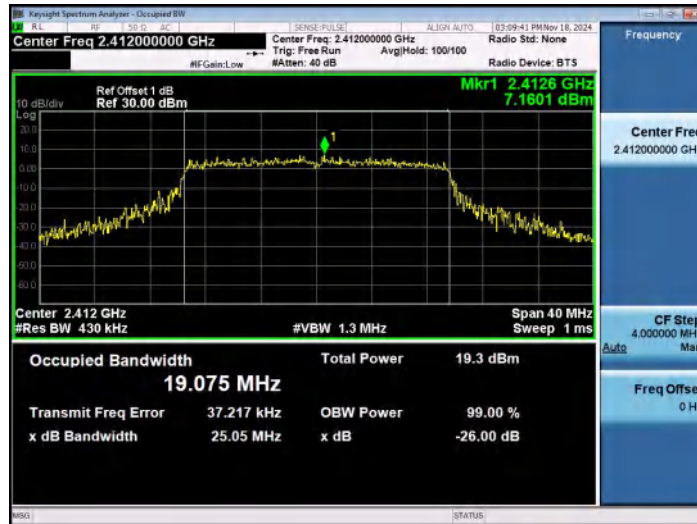


11N40SISO-Ant1-2437



11N40SISO-Ant1-2452

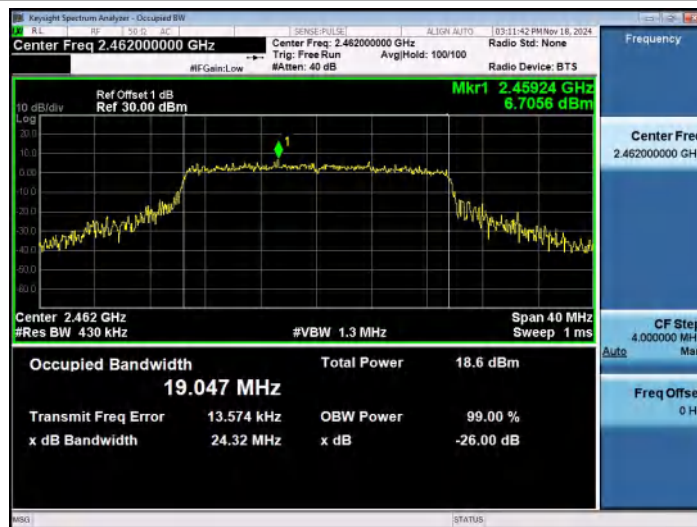




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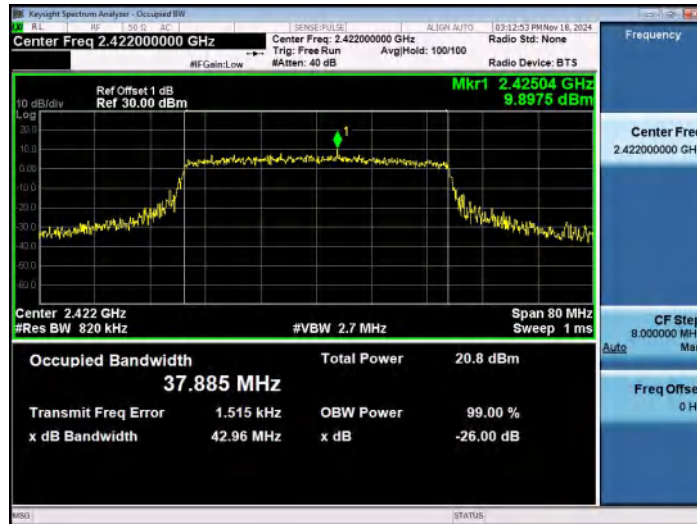


11AX20SISO-Ant1-2437

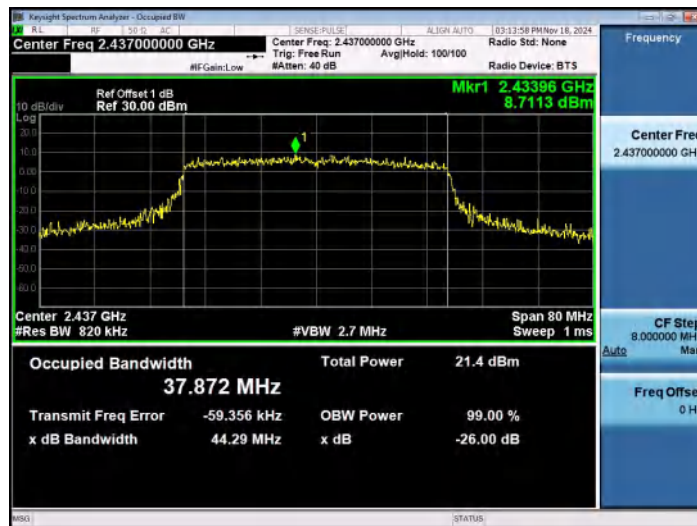


11AX20SISO-Ant1-2462

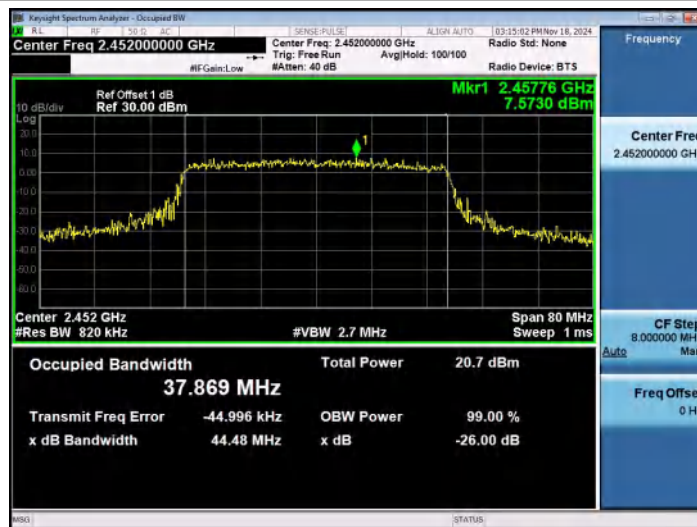




11AX40SISO-Ant1-2422



11AX40SISO-Ant1-2437



11AX40SISO-Ant1-2452



Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Peak Power [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	22.16	≤30.00	PASS
11B	Ant1	2437	21.62	≤30.00	PASS
11B	Ant1	2462	20.67	≤30.00	PASS
11G	Ant1	2412	19.89	≤30.00	PASS
11G	Ant1	2437	19.87	≤30.00	PASS
11G	Ant1	2462	19.50	≤30.00	PASS
11N20SISO	Ant1	2412	18.8	≤30.00	PASS
11N20SISO	Ant1	2437	18.74	≤30.00	PASS
11N20SISO	Ant1	2462	18.5	≤30.00	PASS
11N40SISO	Ant1	2422	19.39	≤30.00	PASS
11N40SISO	Ant1	2437	19.69	≤30.00	PASS
11N40SISO	Ant1	2452	19.21	≤30.00	PASS
11AX20SISO	Ant1	2412	18.96	≤30.00	PASS
11AX20SISO	Ant1	2437	19.07	≤30.00	PASS
11AX20SISO	Ant1	2462	18.77	≤30.00	PASS
11AX40SISO	Ant1	2422	19.7	≤30.00	PASS
11AX40SISO	Ant1	2437	19.99	≤30.00	PASS
11AX40SISO	Ant1	2452	19.41	≤30.00	PASS



Appendix D: Maximum power spectral density

Test Result

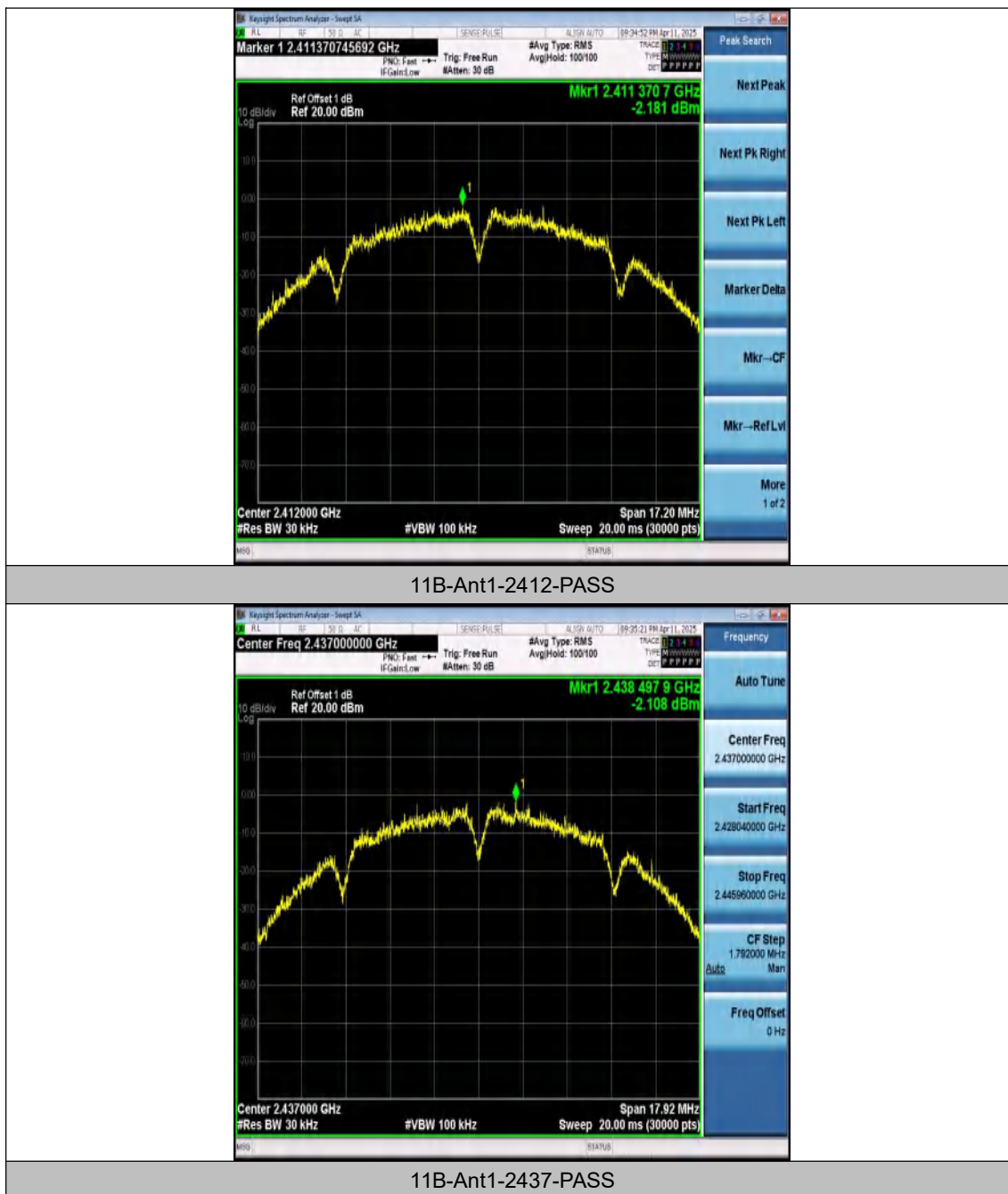
Test Mode	Antenna	Frequency[MHz]	Result [dBm/30kHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-2.18	-12.18	≤8.00	PASS
11B	Ant1	2437	-2.11	-12.11	≤8.00	PASS
11B	Ant1	2462	-1.79	-11.79	≤8.00	PASS
11G	Ant1	2412	-4.06	-14.06	≤8.00	PASS
11G	Ant1	2437	-4.84	-14.84	≤8.00	PASS
11G	Ant1	2462	-4.83	-14.83	≤8.00	PASS
11N20SISO	Ant1	2412	-5.84	-15.84	≤8.00	PASS
11N20SISO	Ant1	2437	-7.55	-17.55	≤8.00	PASS
11N20SISO	Ant1	2462	-6.09	-16.09	≤8.00	PASS
11N40SISO	Ant1	2422	-9.47	-19.47	≤8.00	PASS
11N40SISO	Ant1	2437	-9.55	-19.55	≤8.00	PASS
11N40SISO	Ant1	2452	-9.55	-19.55	≤8.00	PASS
11AX20SISO	Ant1	2412	-4.28	-14.28	≤8.00	PASS
11AX20SISO	Ant1	2437	-5.01	-15.01	≤8.00	PASS
11AX20SISO	Ant1	2462	-4.75	-14.75	≤8.00	PASS
11AX40SISO	Ant1	2422	-9.38	-19.38	≤8.00	PASS
11AX40SISO	Ant1	2437	-9.60	-19.6	≤8.00	PASS
11AX40SISO	Ant1	2452	-9.69	-19.69	≤8.00	PASS

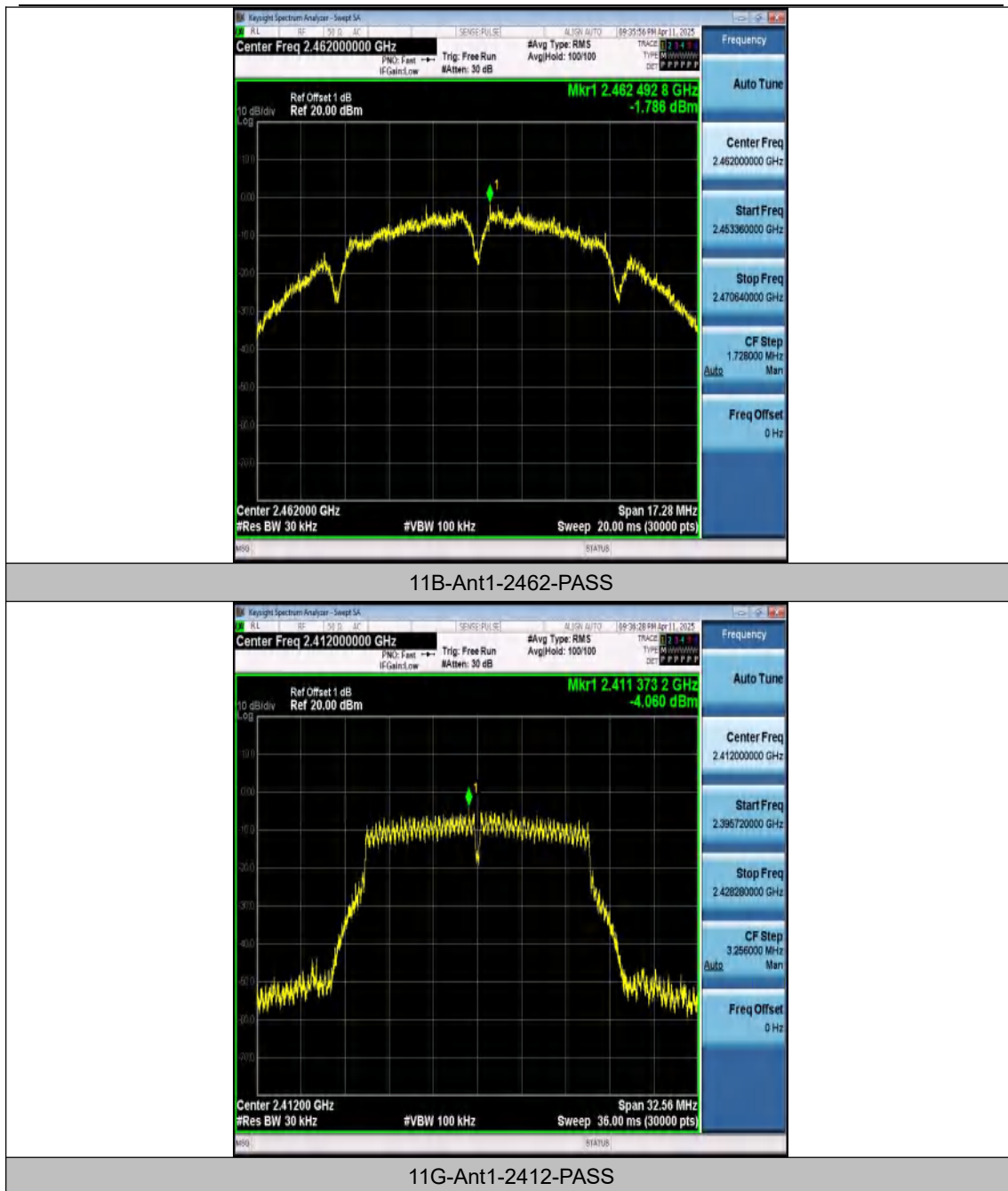
Note:

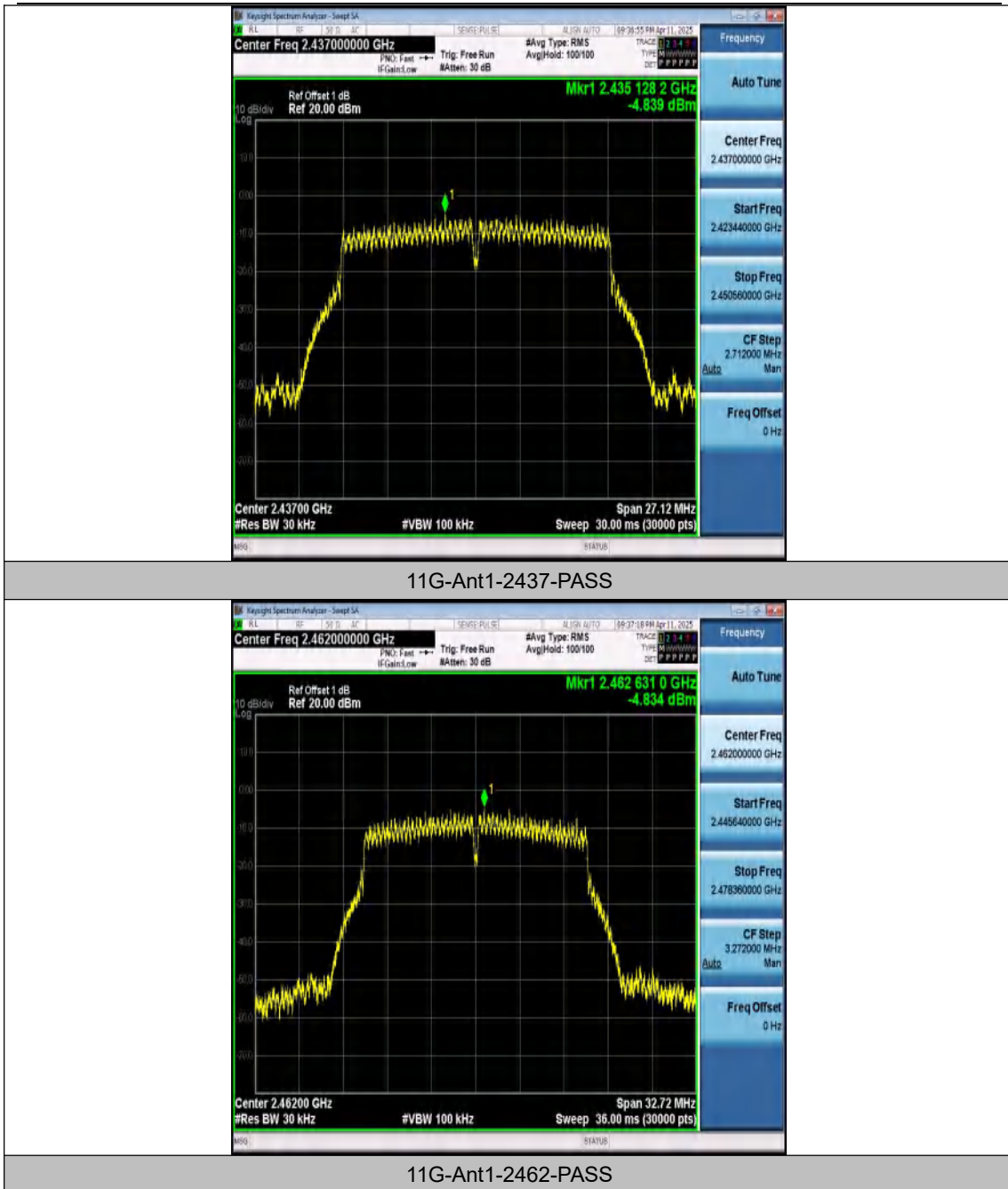
1. The cable loss are compensated in the graph.
2. $PSD(dBm/3kHz) = PSD(dBm/30kHz) - (10 \cdot \log(30/3))$

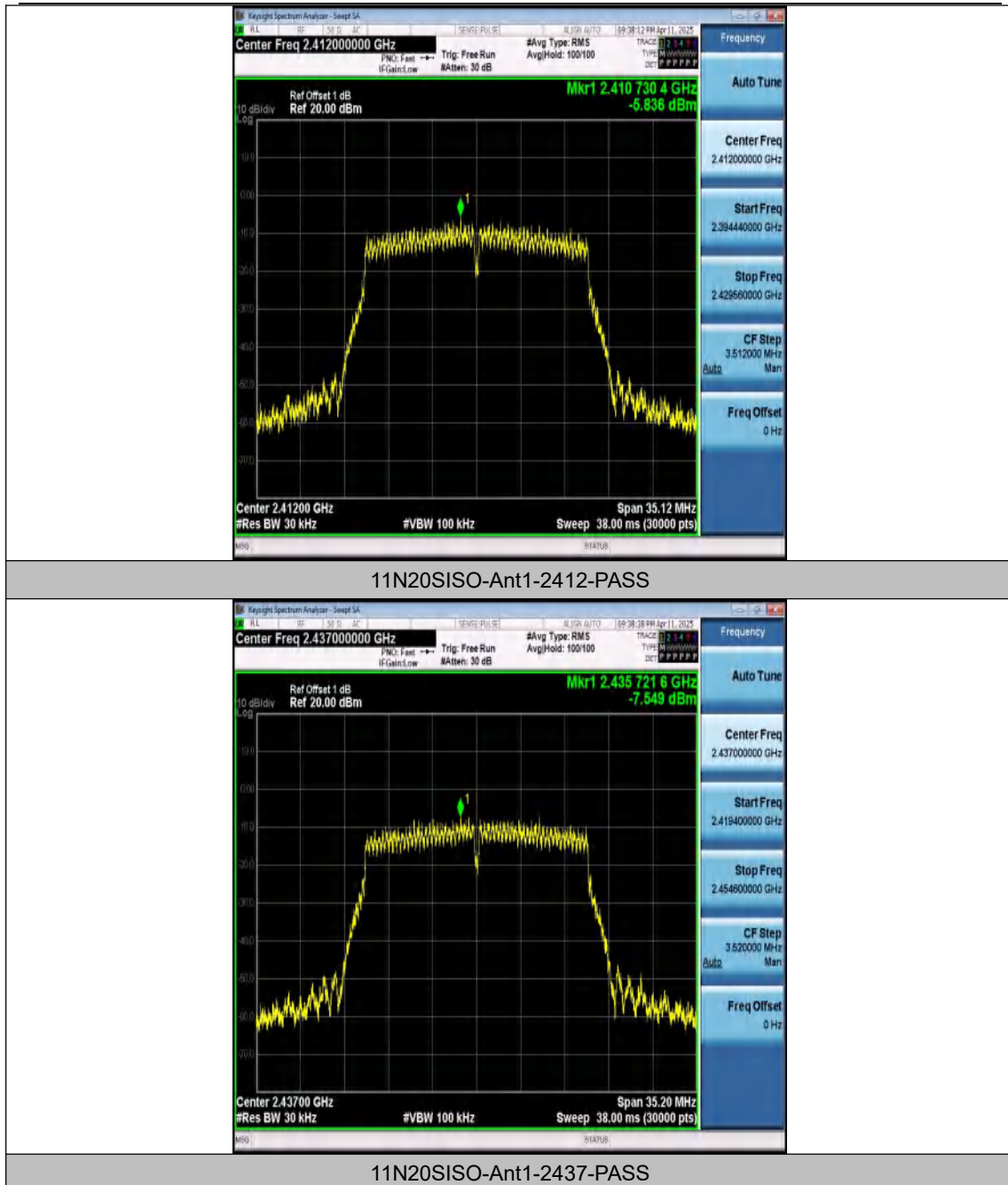


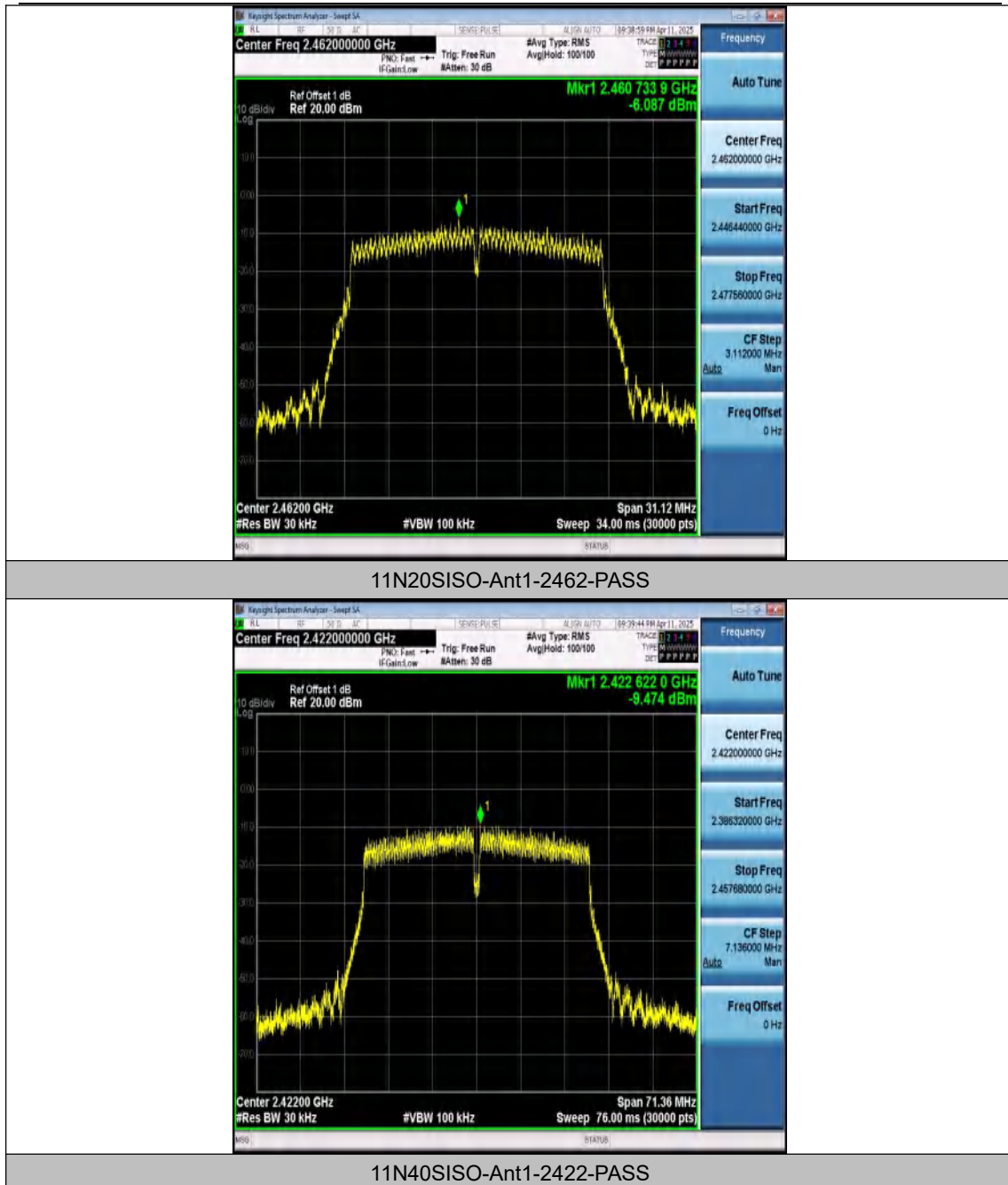
Test Graphs

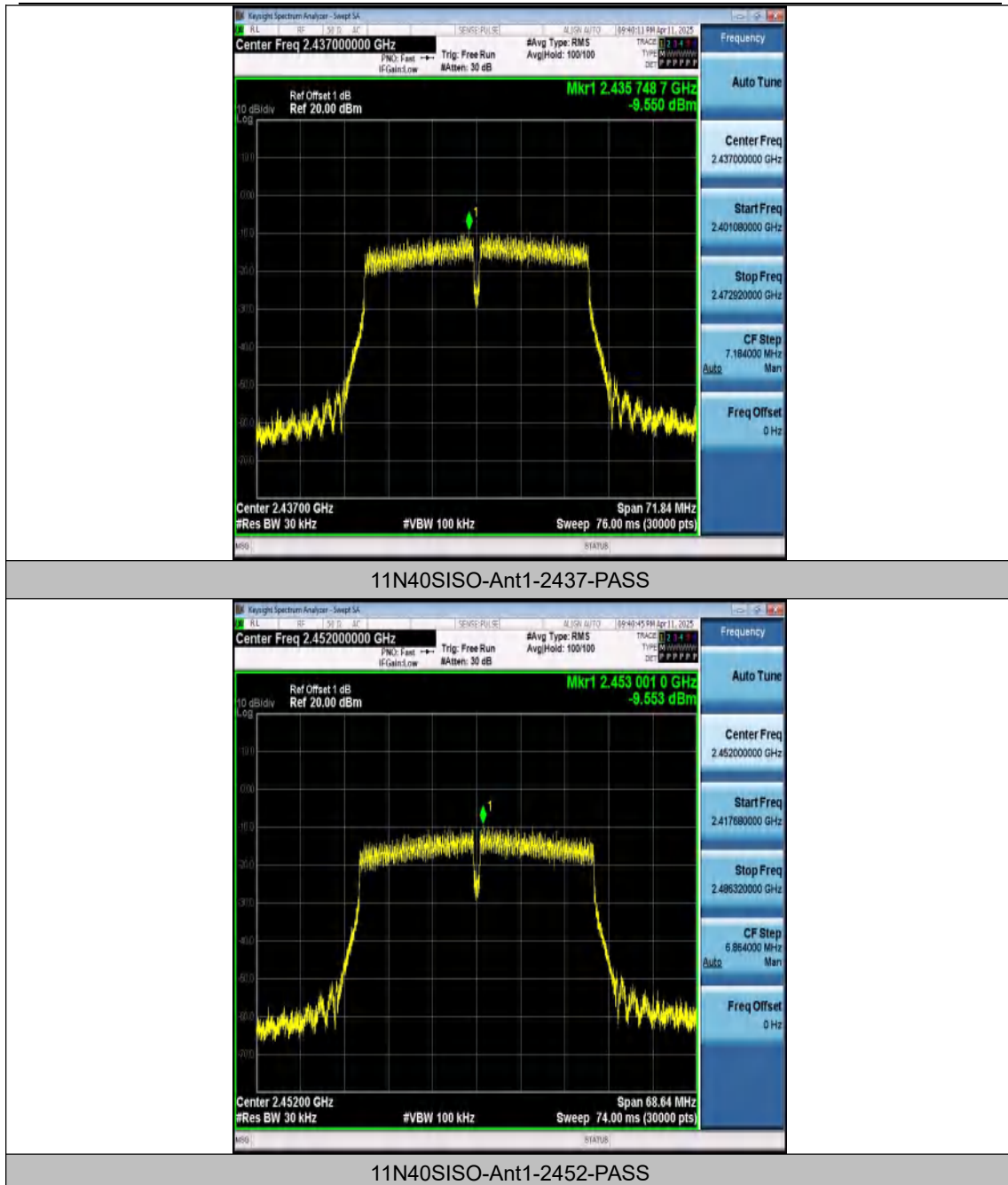


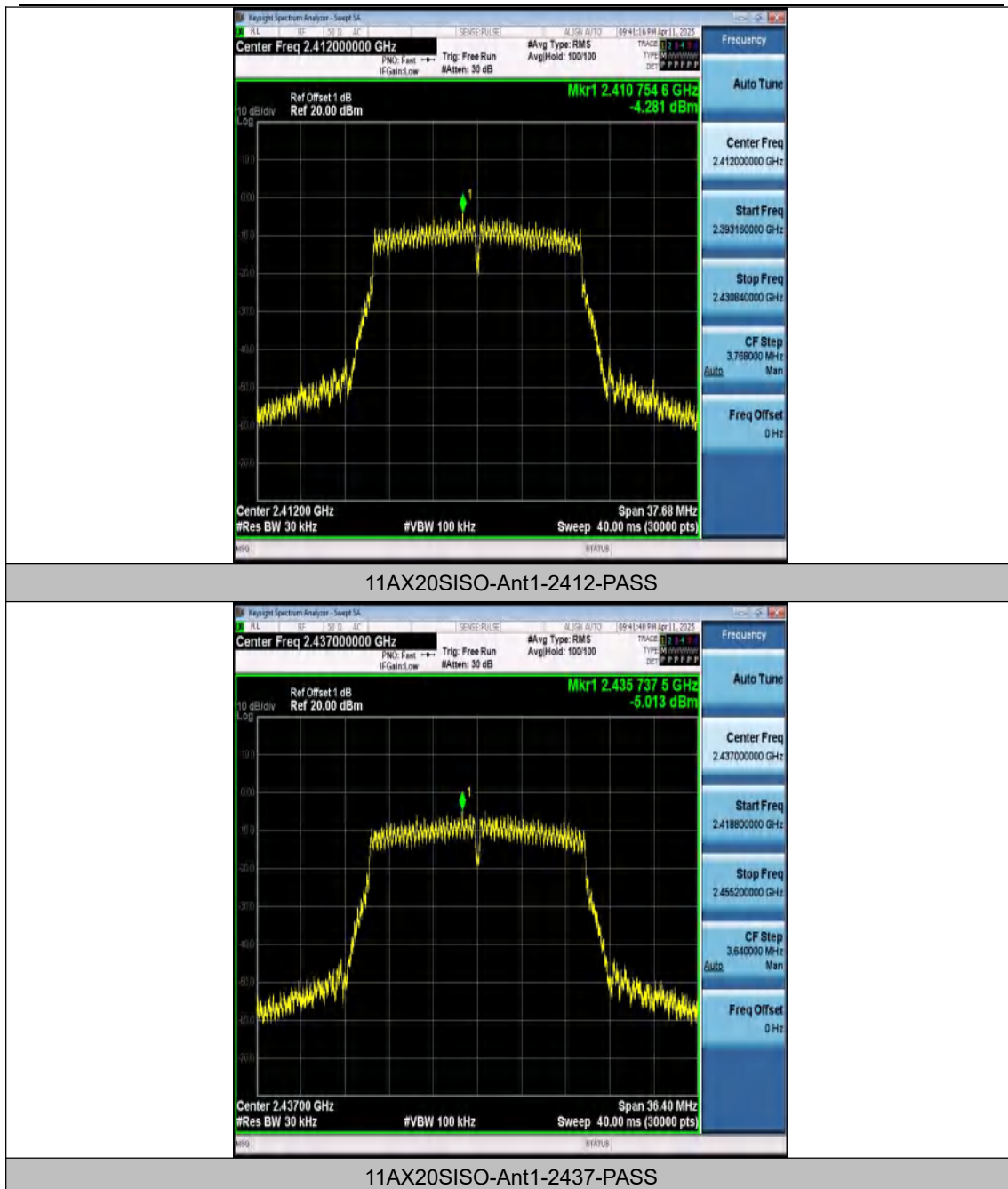


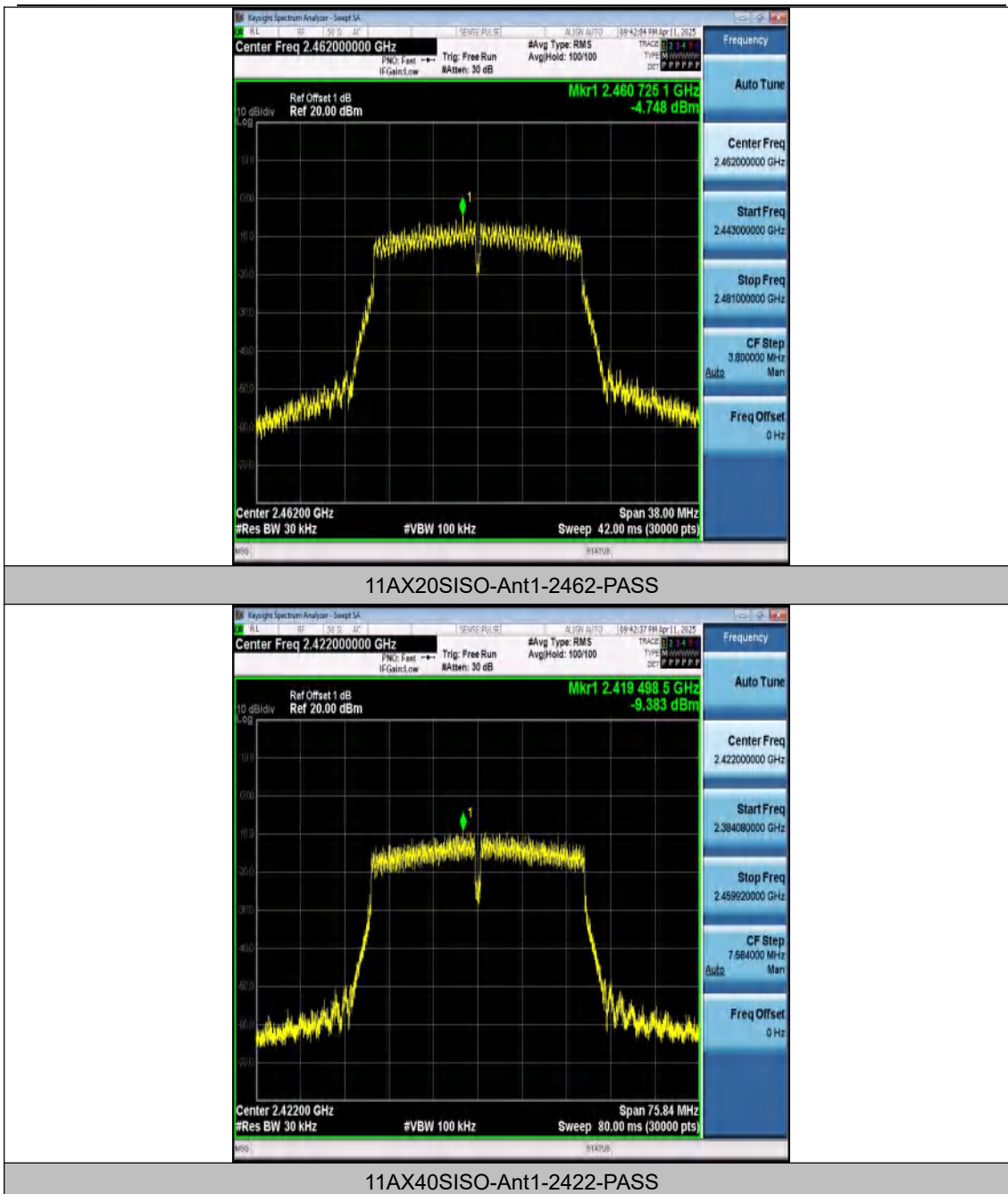


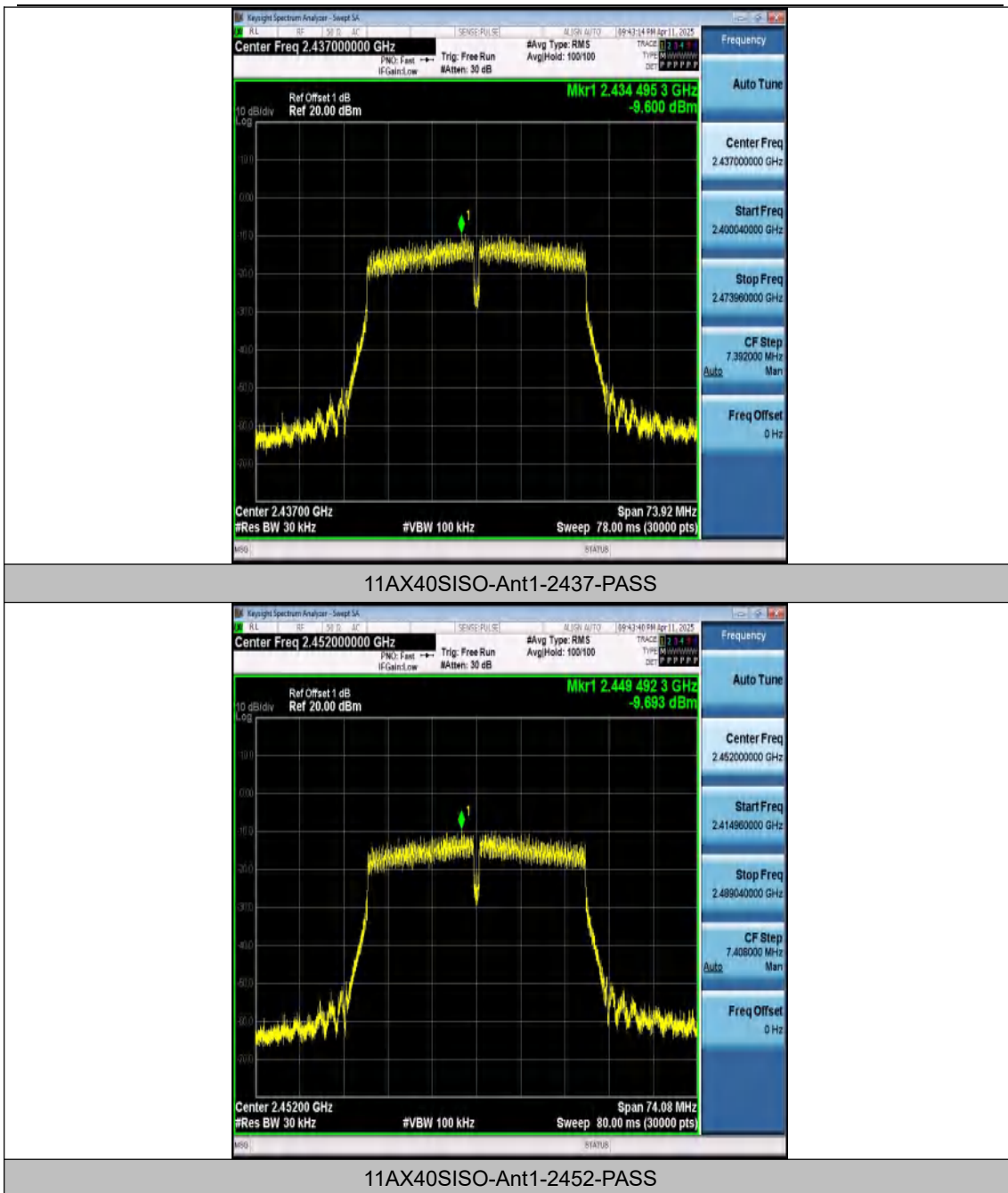












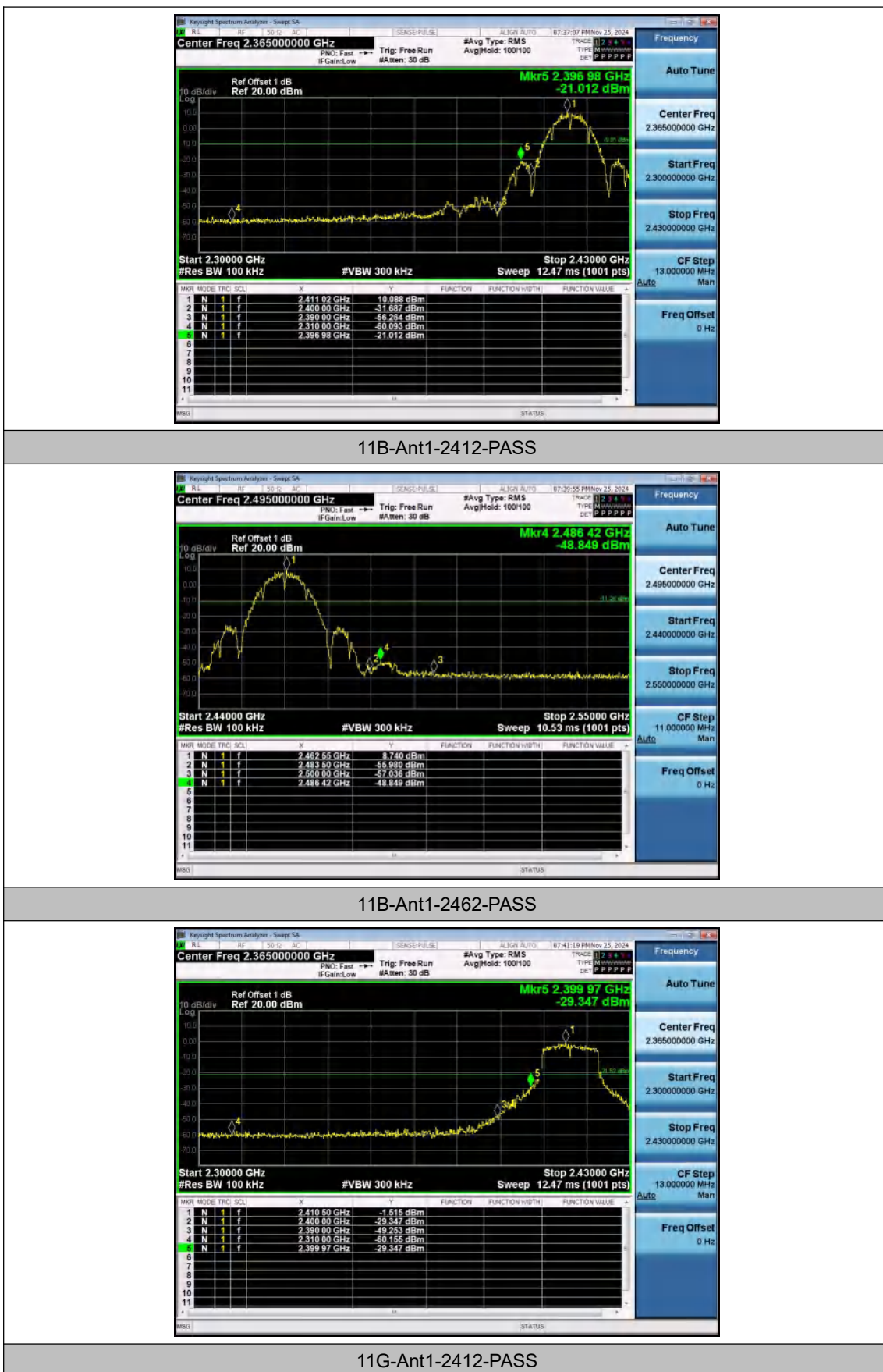
Appendix E: Conducted Band edge

Test Result

Test Mode	Antenna	Ch. Name	Frequency [MHz]	Ref. Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	10.09	-21.01	≤-9.91	PASS
11B	Ant1	High	2462	8.74	-48.85	≤-11.26	PASS
11G	Ant1	Low	2412	-1.52	-29.35	≤-21.52	PASS
11G	Ant1	High	2462	-1.87	-49.16	≤-21.87	PASS
11N20SISO	Ant1	Low	2412	0.37	-27.94	≤-19.63	PASS
11N20SISO	Ant1	High	2462	-2.33	-47.84	≤-22.33	PASS
11N40SISO	Ant1	Low	2422	-3.94	-31.35	≤-23.94	PASS
11N40SISO	Ant1	High	2452	-1.96	-40.47	≤-21.96	PASS
11AX20SISO	Ant1	Low	2412	-1.09	-26.13	≤-21.09	PASS
11AX20SISO	Ant1	High	2462	-1.62	-48.81	≤-21.62	PASS
11AX40SISO	Ant1	Low	2422	-2.81	-29.84	≤-22.81	PASS
11AX40SISO	Ant1	High	2452	-2.10	-37.19	≤-22.1	PASS



Test Graphs

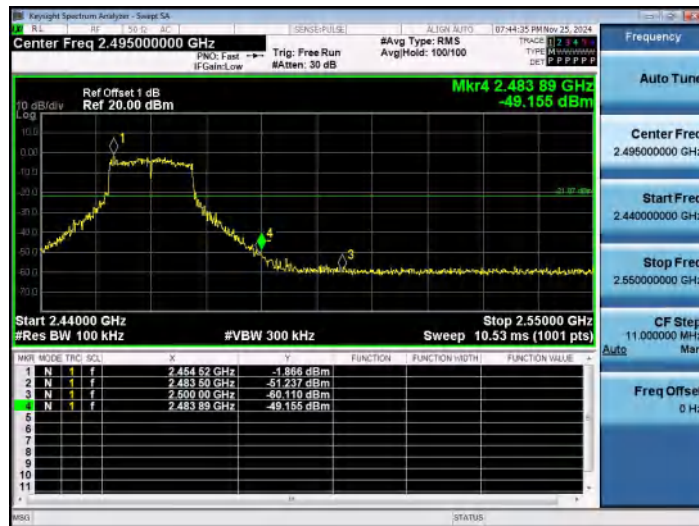


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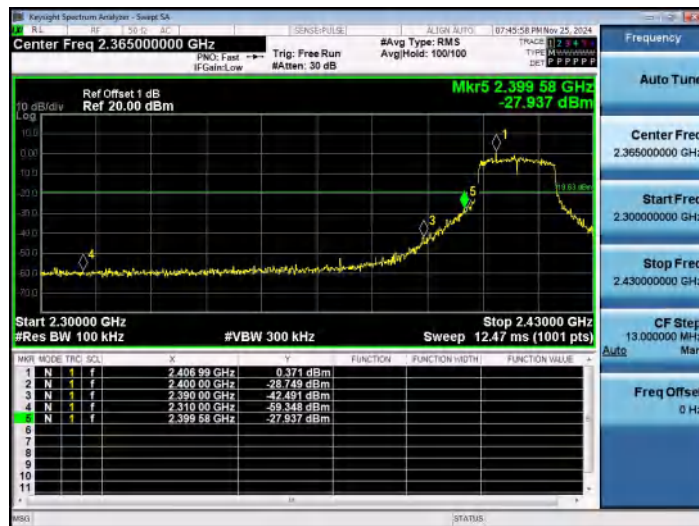
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Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
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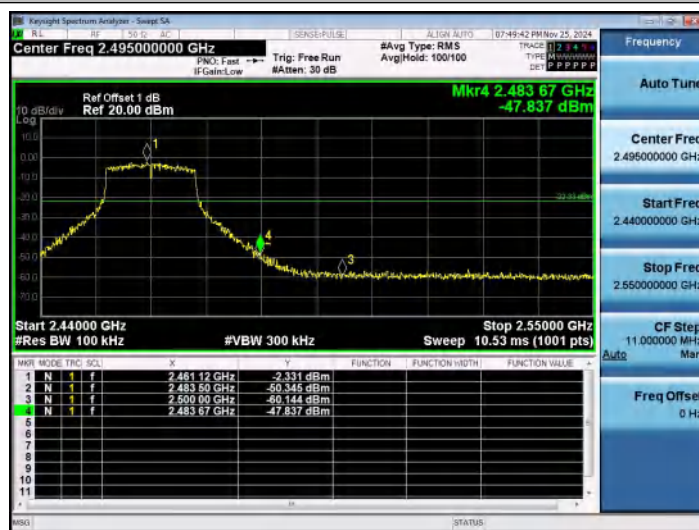




11G-Ant1-2462-PASS

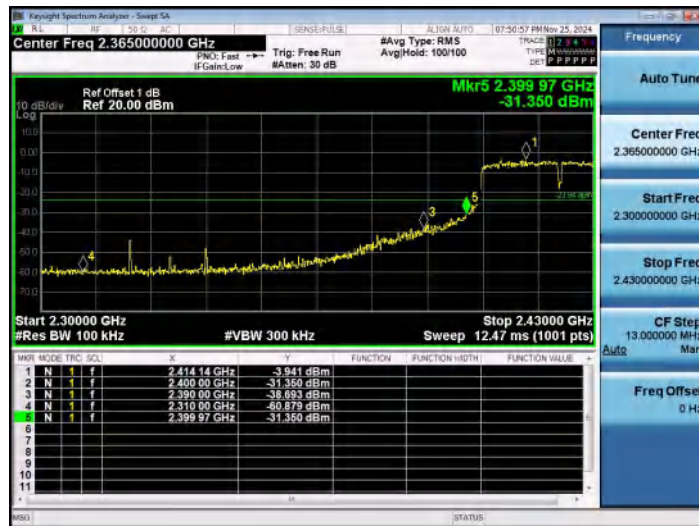


11N20SISO-Ant1-2412-PASS



11N20SISO-Ant1-2462-PASS

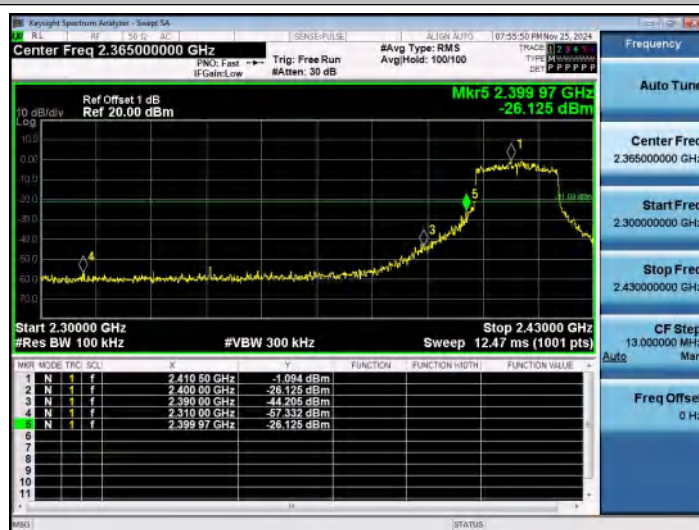




11N40SISO-Ant1-2422-PASS

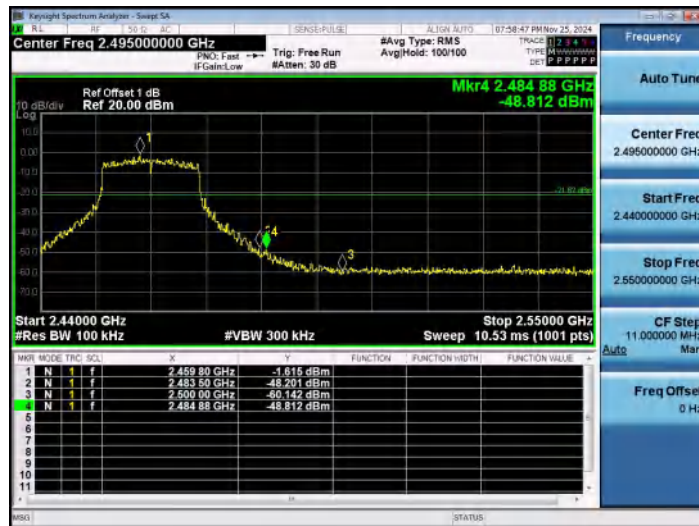


11N40SISO-Ant1-2452-PASS



11AX20SISO-Ant1-2412-PASS

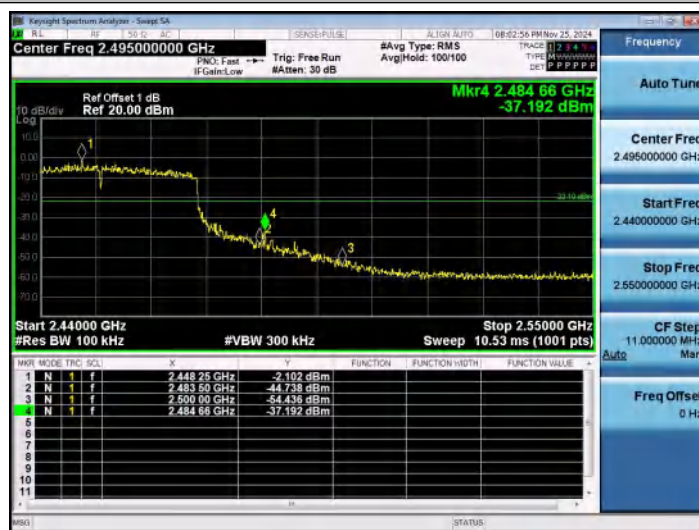




11AX20ISO-Ant1-2462-PASS



11AX40ISO-Ant1-2422-PASS



11AX40ISO-Ant1-2452-PASS



Appendix F: Conducted Spurious Emission

Test Result

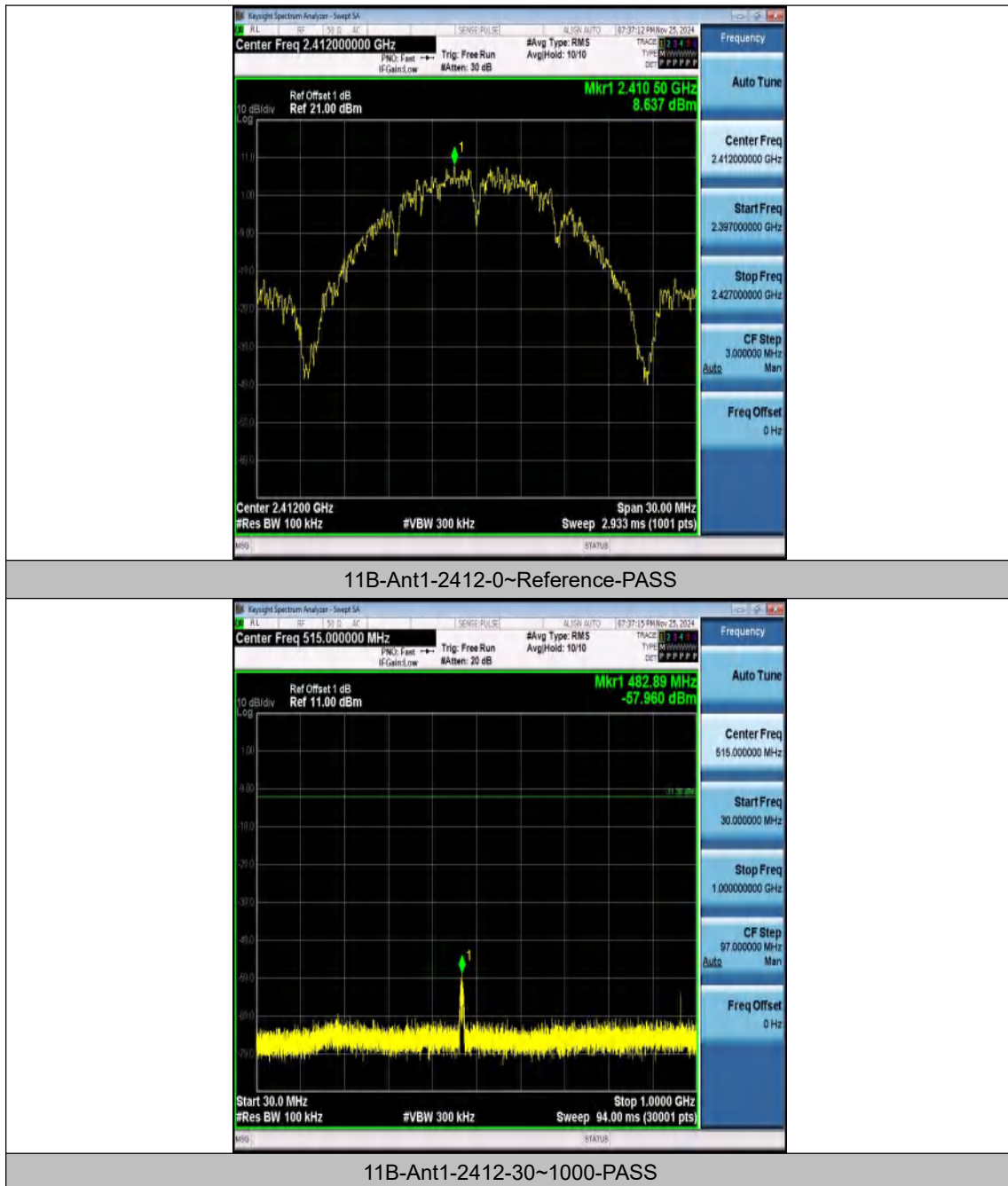
Test Mode	Antenna	Frequency[MHz]	Freq. Range [Mhz]	Ref. Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	8.64	8.64	---	PASS
11B	Ant1	2412	30~1000	8.64	-57.96	≤-11.36	PASS
11B	Ant1	2412	1000~26500	8.64	-41.45	≤-11.36	PASS
11B	Ant1	2437	0~Reference	7.99	7.99	---	PASS
11B	Ant1	2437	30~1000	7.99	-59.3	≤-12.01	PASS
11B	Ant1	2437	1000~26500	7.99	-39.54	≤-12.01	PASS
11B	Ant1	2462	0~Reference	7.44	7.44	---	PASS
11B	Ant1	2462	30~1000	7.44	-57.95	≤-12.56	PASS
11B	Ant1	2462	1000~26500	7.44	-39.09	≤-12.56	PASS
11G	Ant1	2412	0~Reference	0.89	0.89	---	PASS
11G	Ant1	2412	30~1000	0.89	-66.63	≤-19.11	PASS
11G	Ant1	2412	1000~26500	0.89	-48.46	≤-19.11	PASS
11G	Ant1	2437	0~Reference	-2.48	-2.48	---	PASS
11G	Ant1	2437	30~1000	-2.48	-65.15	≤-22.48	PASS
11G	Ant1	2437	1000~26500	-2.48	-52.96	≤-22.48	PASS
11G	Ant1	2462	0~Reference	-1.82	-1.82	---	PASS
11G	Ant1	2462	30~1000	-1.82	-65.12	≤-21.82	PASS
11G	Ant1	2462	1000~26500	-1.82	-44.98	≤-21.82	PASS
11N20SISO	Ant1	2412	0~Reference	-2.50	-2.50	---	PASS
11N20SISO	Ant1	2412	30~1000	-2.50	-66.91	≤-22.5	PASS
11N20SISO	Ant1	2412	1000~26500	-2.50	-50.11	≤-22.5	PASS
11N20SISO	Ant1	2437	0~Reference	-2.22	-2.22	---	PASS
11N20SISO	Ant1	2437	30~1000	-2.22	-67.06	≤-22.22	PASS
11N20SISO	Ant1	2437	1000~26500	-2.22	-49.72	≤-22.22	PASS
11N20SISO	Ant1	2462	0~Reference	-2.44	-2.44	---	PASS
11N20SISO	Ant1	2462	30~1000	-2.44	-66.68	≤-22.44	PASS
11N20SISO	Ant1	2462	1000~26500	-2.44	-47.68	≤-22.44	PASS
11N40SISO	Ant1	2422	0~Reference	-3.62	-3.62	---	PASS
11N40SISO	Ant1	2422	30~1000	-3.62	-66.63	≤-23.62	PASS
11N40SISO	Ant1	2422	1000~26500	-3.62	-50.85	≤-23.62	PASS
11N40SISO	Ant1	2437	0~Reference	-4.12	-4.12	---	PASS
11N40SISO	Ant1	2437	30~1000	-4.12	-66.93	≤-24.12	PASS
11N40SISO	Ant1	2437	1000~26500	-4.12	-50.05	≤-24.12	PASS
11N40SISO	Ant1	2452	0~Reference	-3.18	-3.18	---	PASS
11N40SISO	Ant1	2452	30~1000	-3.18	-67.06	≤-23.18	PASS
11N40SISO	Ant1	2452	1000~26500	-3.18	-48.51	≤-23.18	PASS

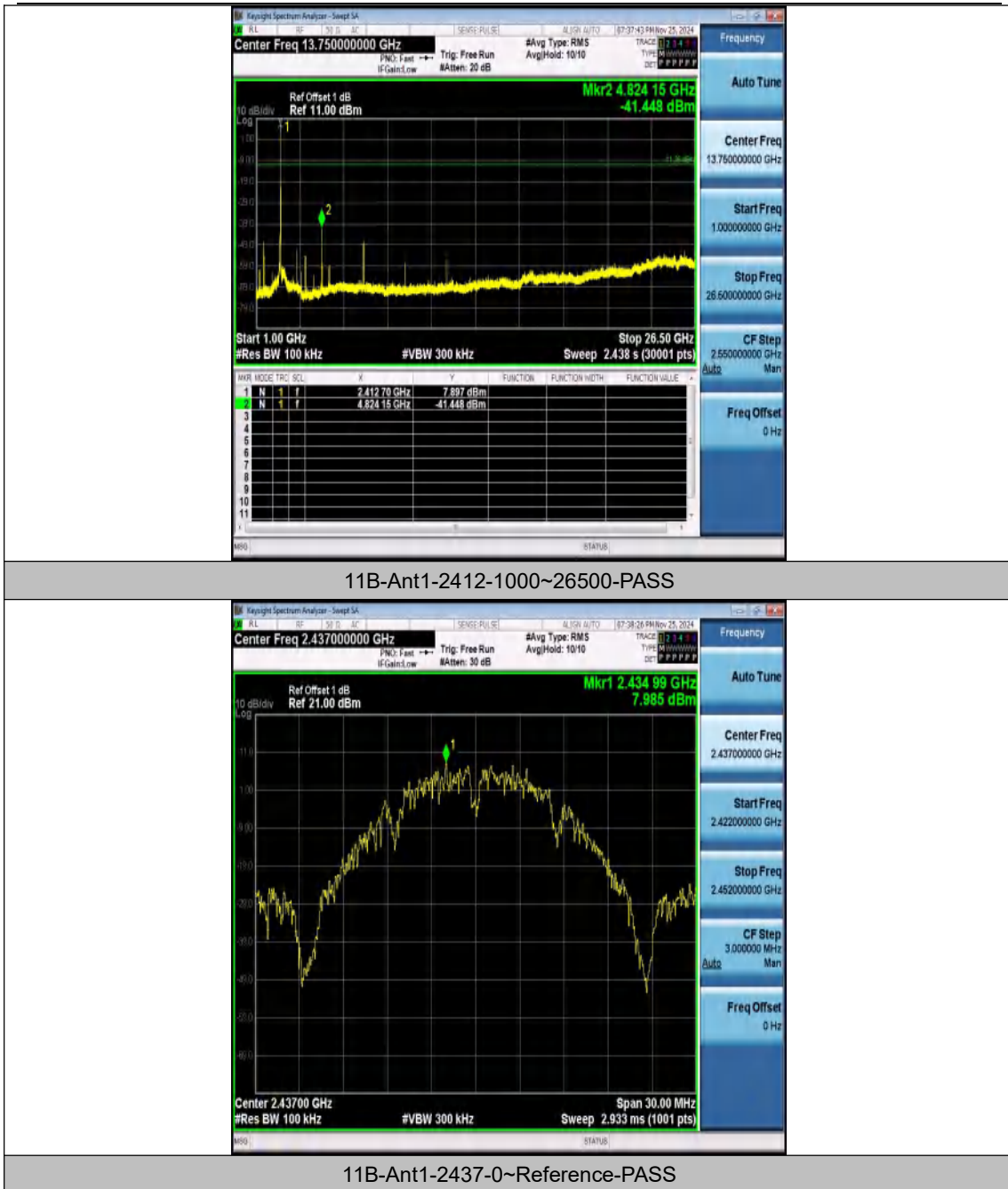


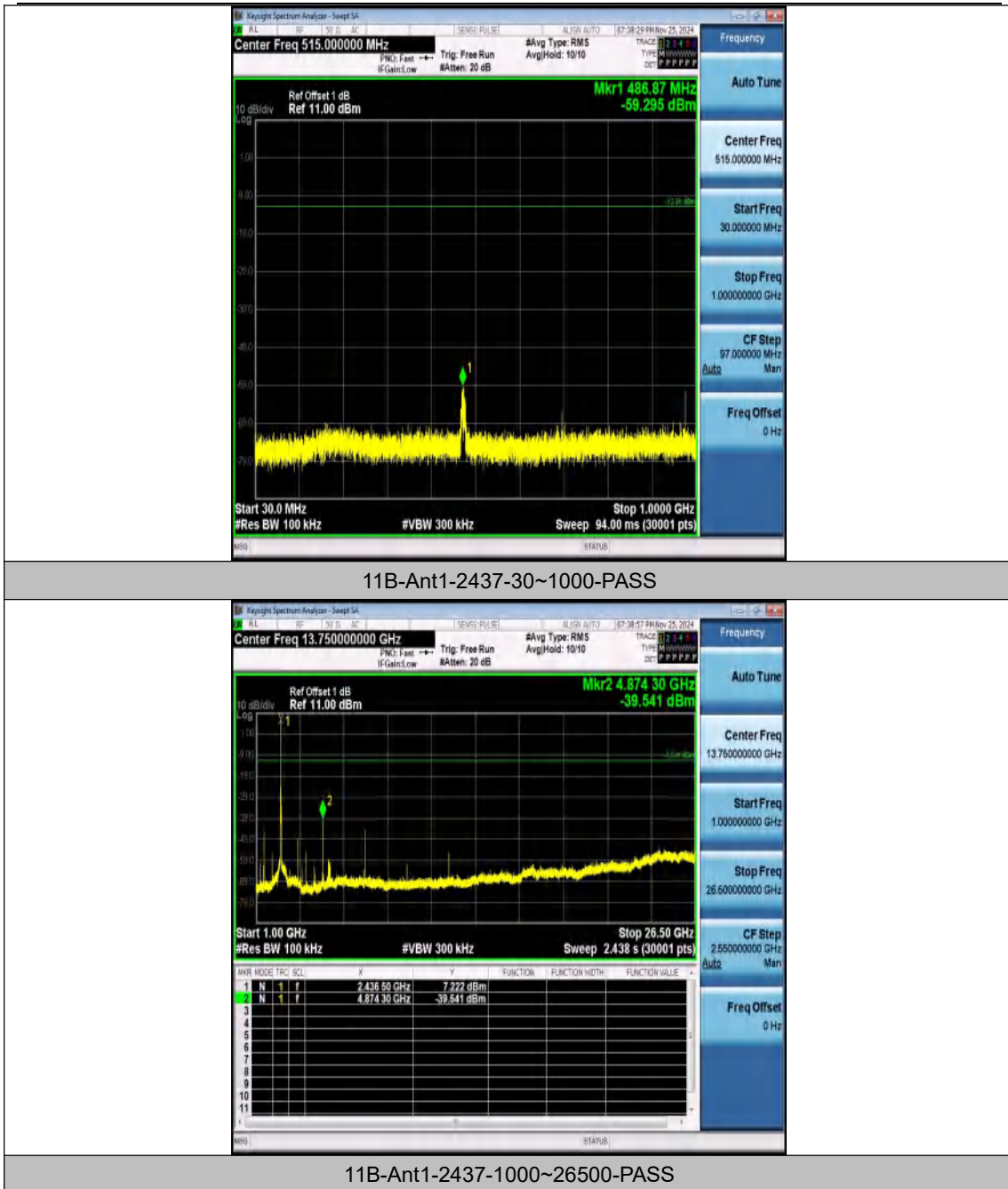
11AX20SISO	Ant1	2412	0~Reference	-1.43	-1.43	---	PASS
11AX20SISO	Ant1	2412	30~1000	-1.43	-64.74	≤-21.43	PASS
11AX20SISO	Ant1	2412	1000~26500	-1.43	-47.84	≤-21.43	PASS
11AX20SISO	Ant1	2437	0~Reference	-2.65	-2.65	---	PASS
11AX20SISO	Ant1	2437	30~1000	-2.65	-66.61	≤-22.65	PASS
11AX20SISO	Ant1	2437	1000~26500	-2.65	-50.85	≤-22.65	PASS
11AX20SISO	Ant1	2462	0~Reference	-3.80	-3.80	---	PASS
11AX20SISO	Ant1	2462	30~1000	-3.80	-66.44	≤-23.8	PASS
11AX20SISO	Ant1	2462	1000~26500	-3.80	-48.08	≤-23.8	PASS
11AX40SISO	Ant1	2422	0~Reference	-4.62	-4.62	---	PASS
11AX40SISO	Ant1	2422	30~1000	-4.62	-68.42	≤-24.62	PASS
11AX40SISO	Ant1	2422	1000~26500	-4.62	-50.88	≤-24.62	PASS
11AX40SISO	Ant1	2437	0~Reference	-3.47	-3.47	---	PASS
11AX40SISO	Ant1	2437	30~1000	-3.47	-67.78	≤-23.47	PASS
11AX40SISO	Ant1	2437	1000~26500	-3.47	-49.08	≤-23.47	PASS
11AX40SISO	Ant1	2452	0~Reference	-3.04	-3.04	---	PASS
11AX40SISO	Ant1	2452	30~1000	-3.04	-67.58	≤-23.04	PASS
11AX40SISO	Ant1	2452	1000~26500	-3.04	-48.97	≤-23.04	PASS

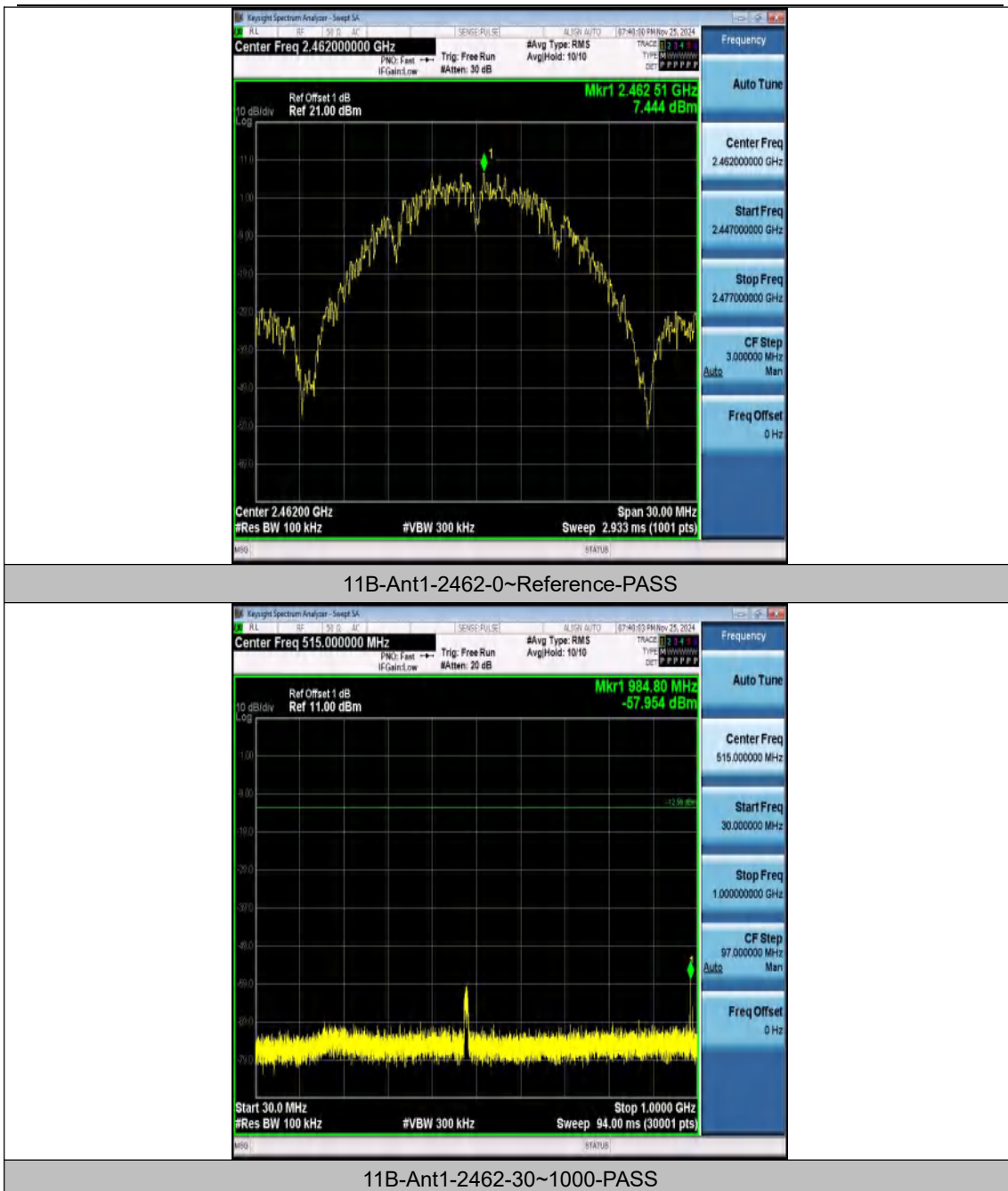


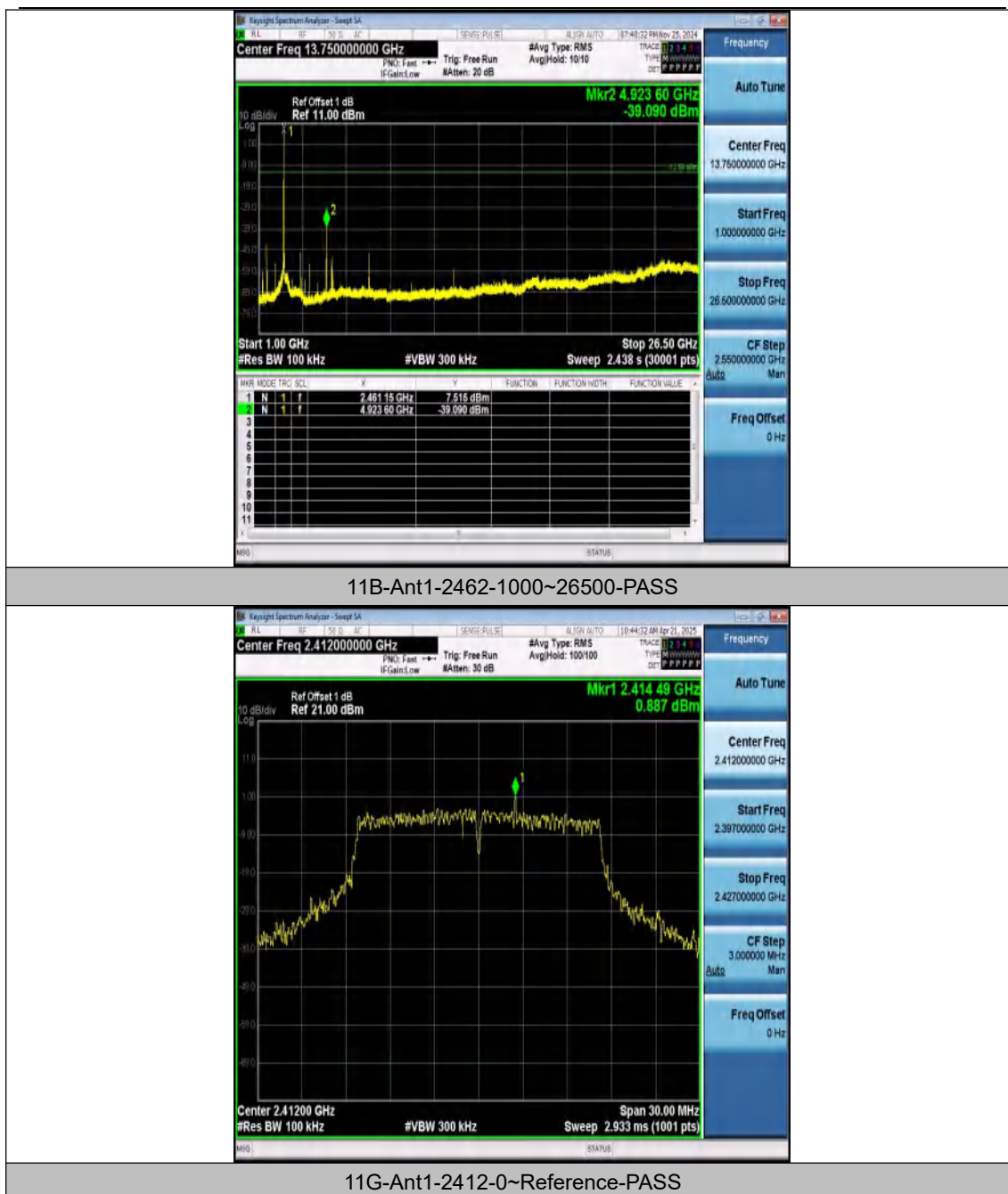
Test Graphs

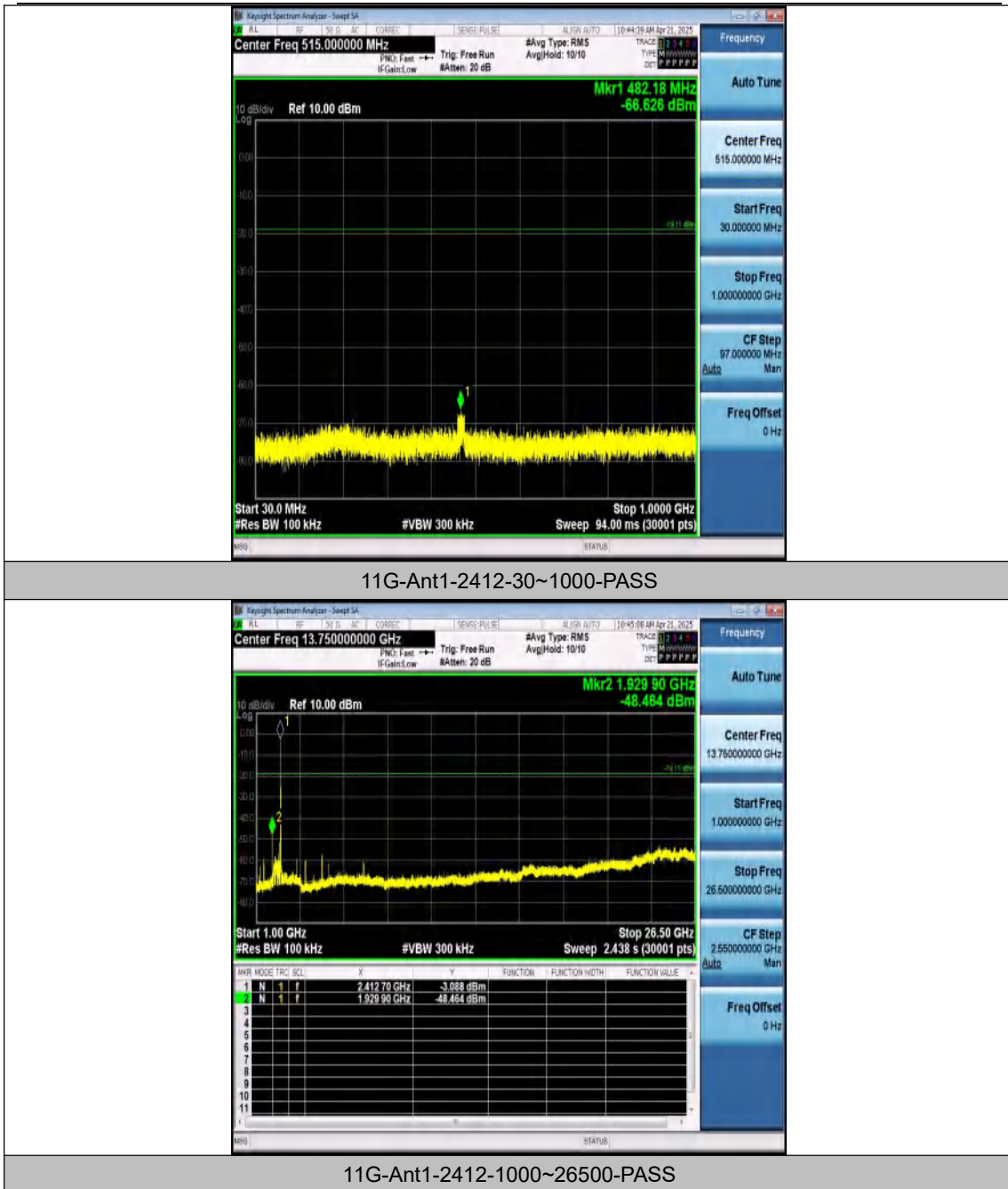


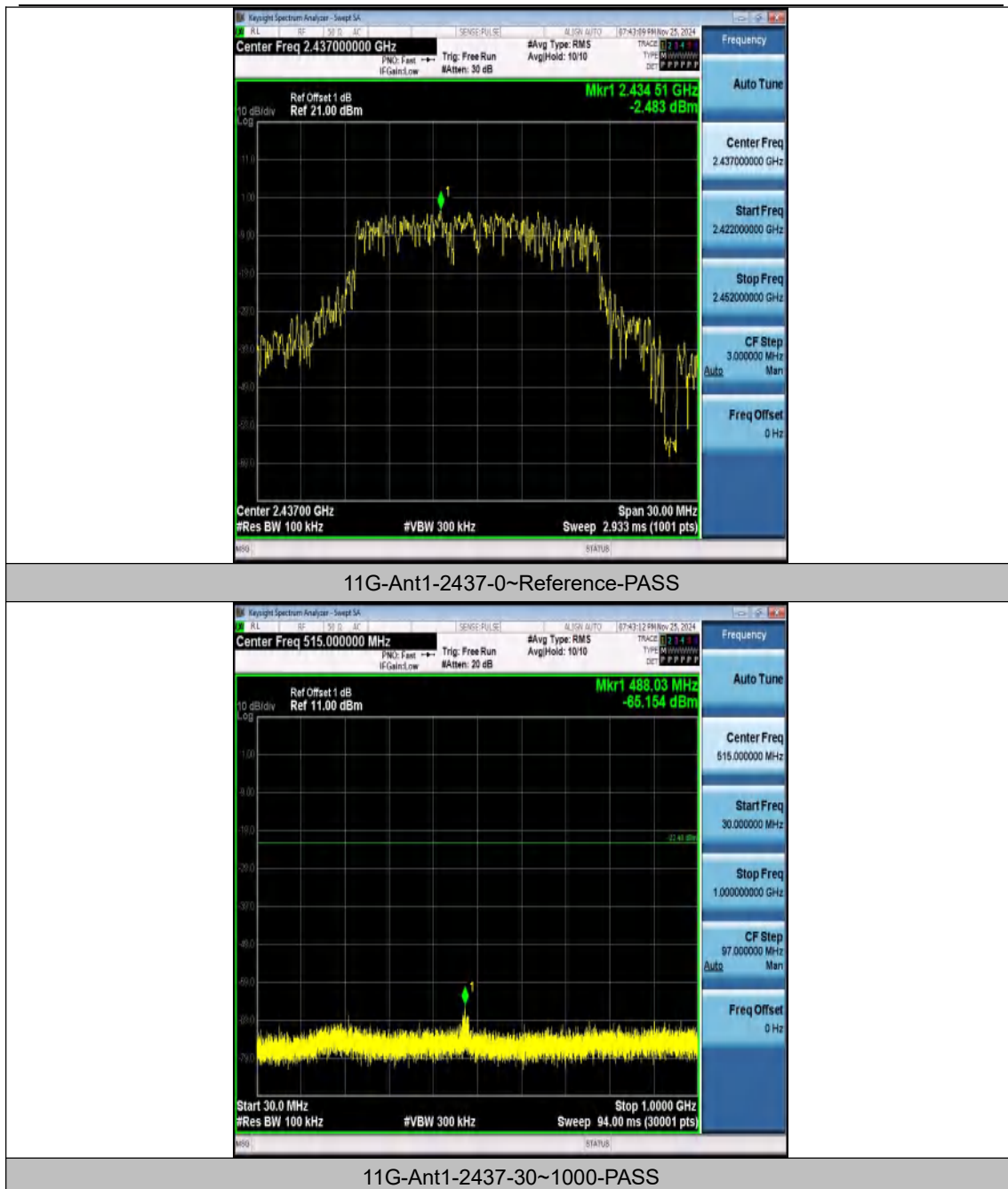


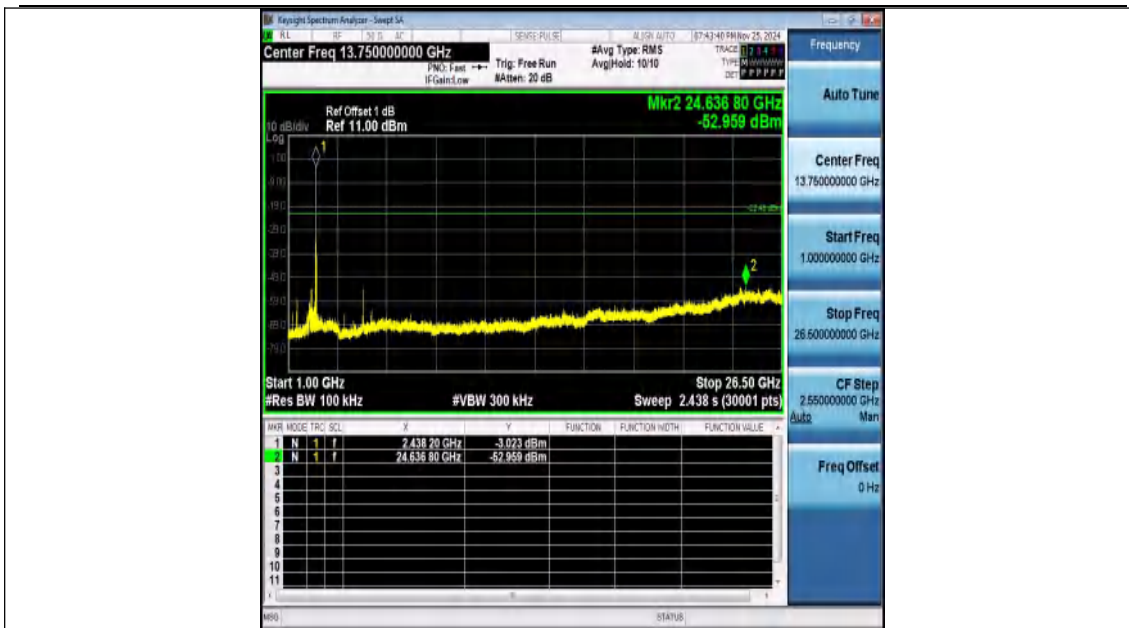










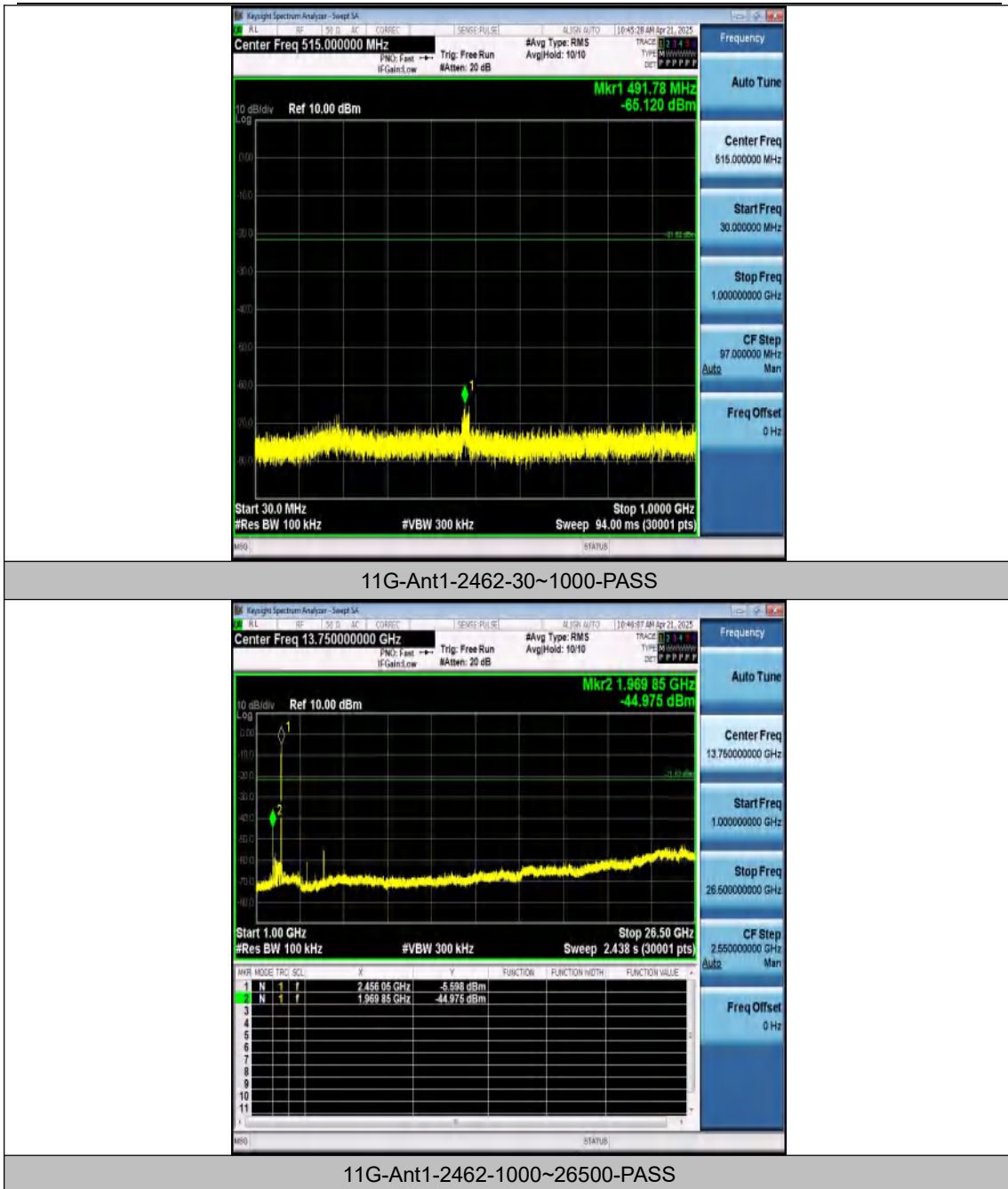


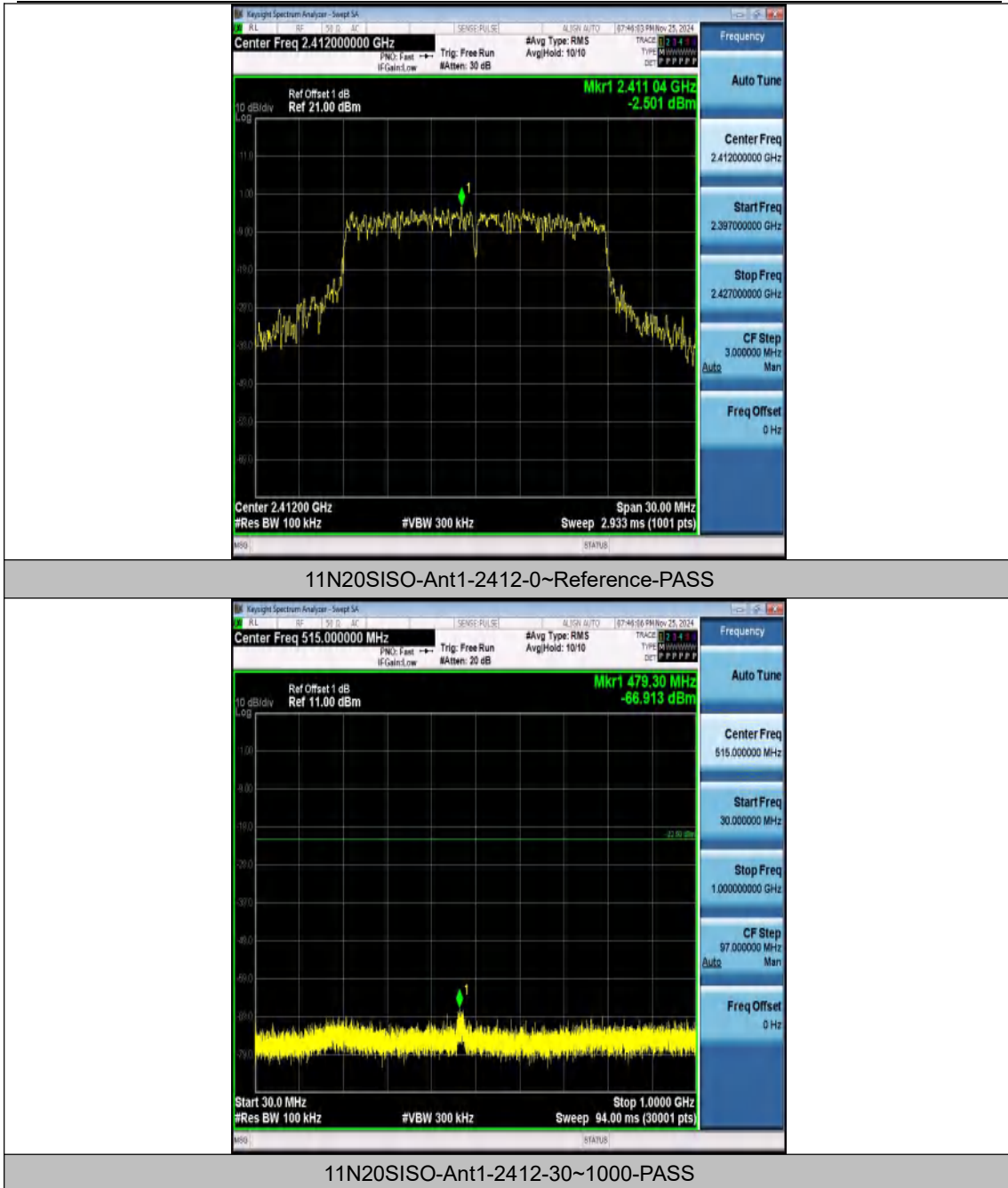
11G-Ant1-2437-1000~26500-PASS

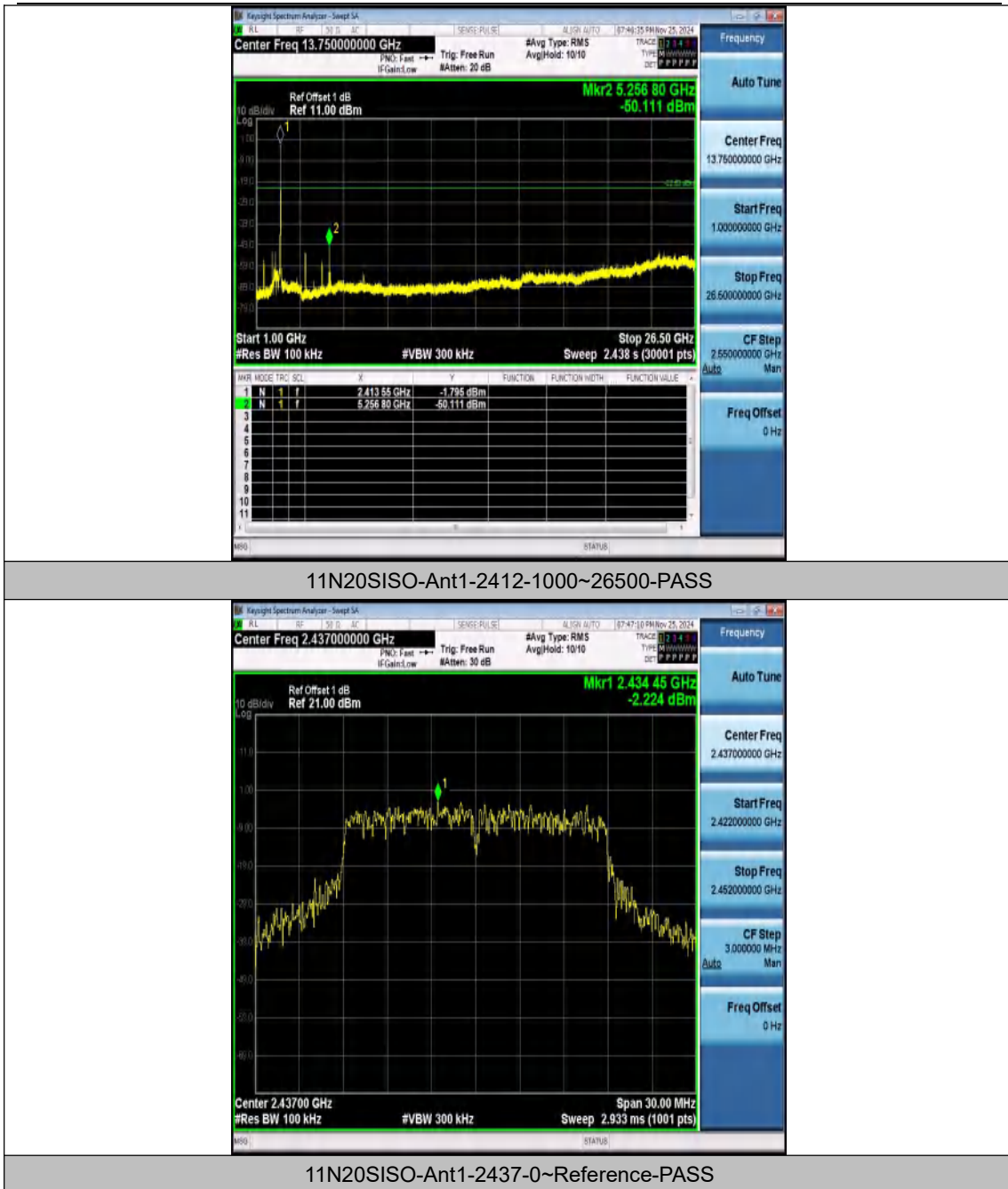


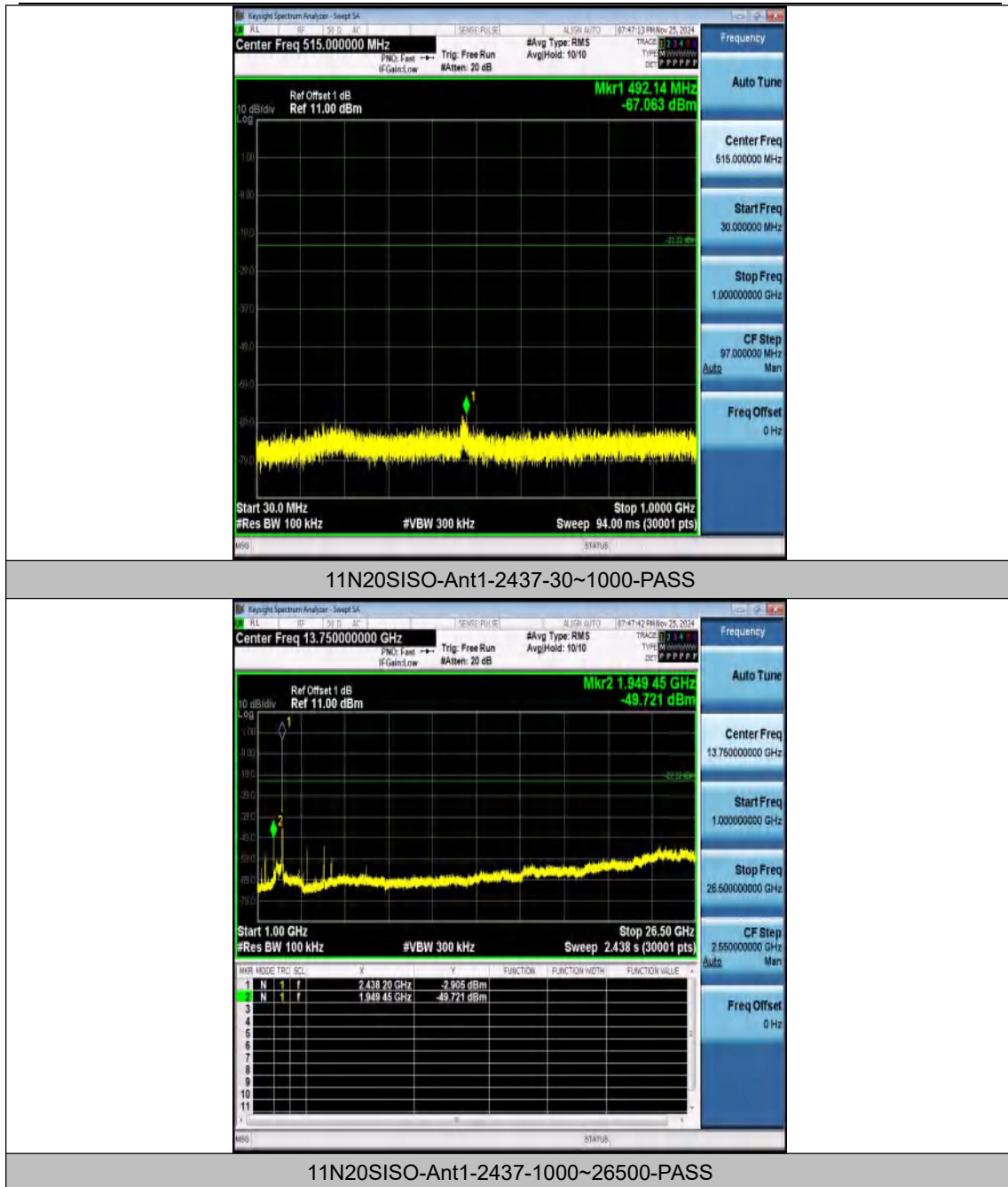
11G-Ant1-2462-0~Reference-PASS

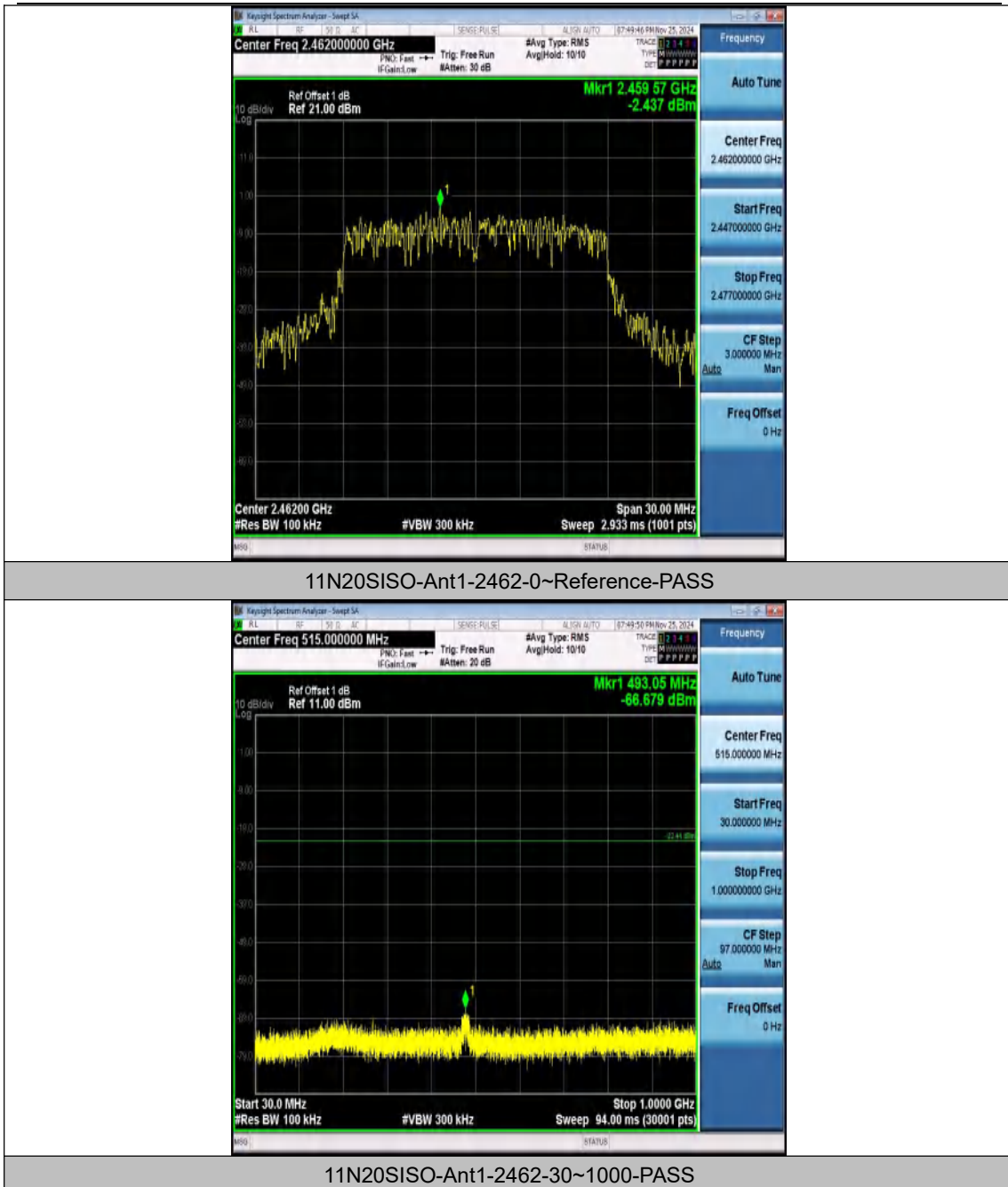


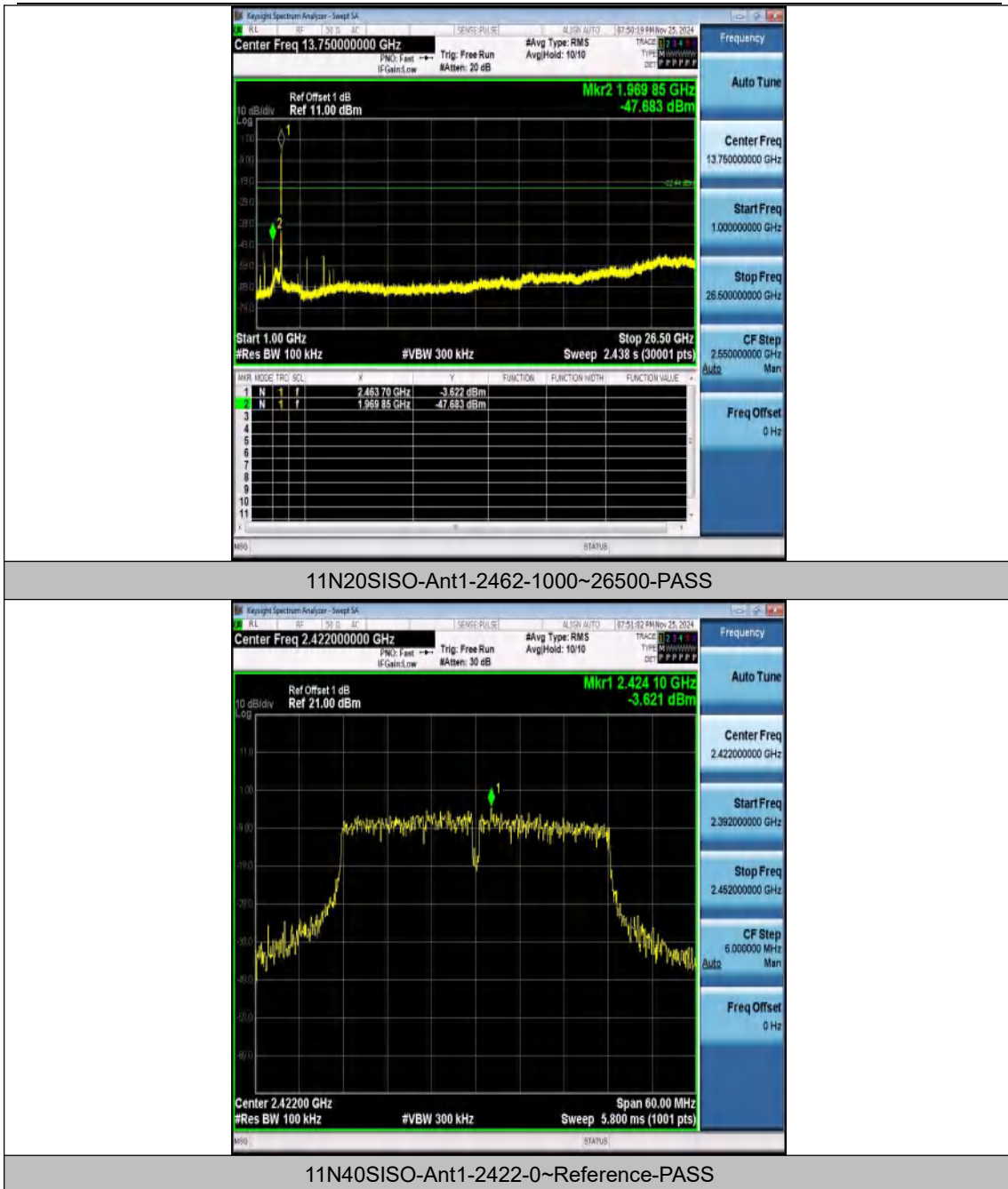


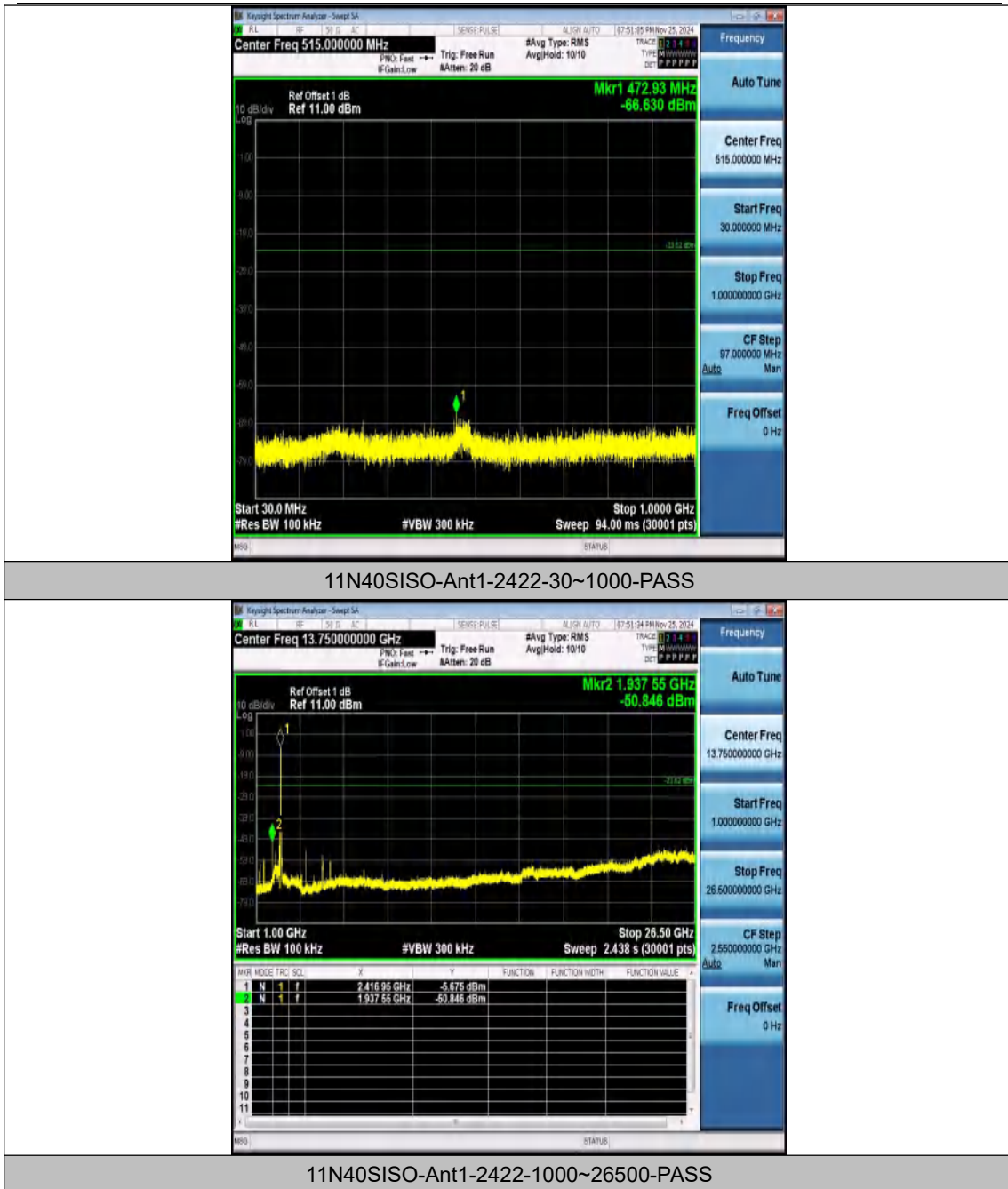


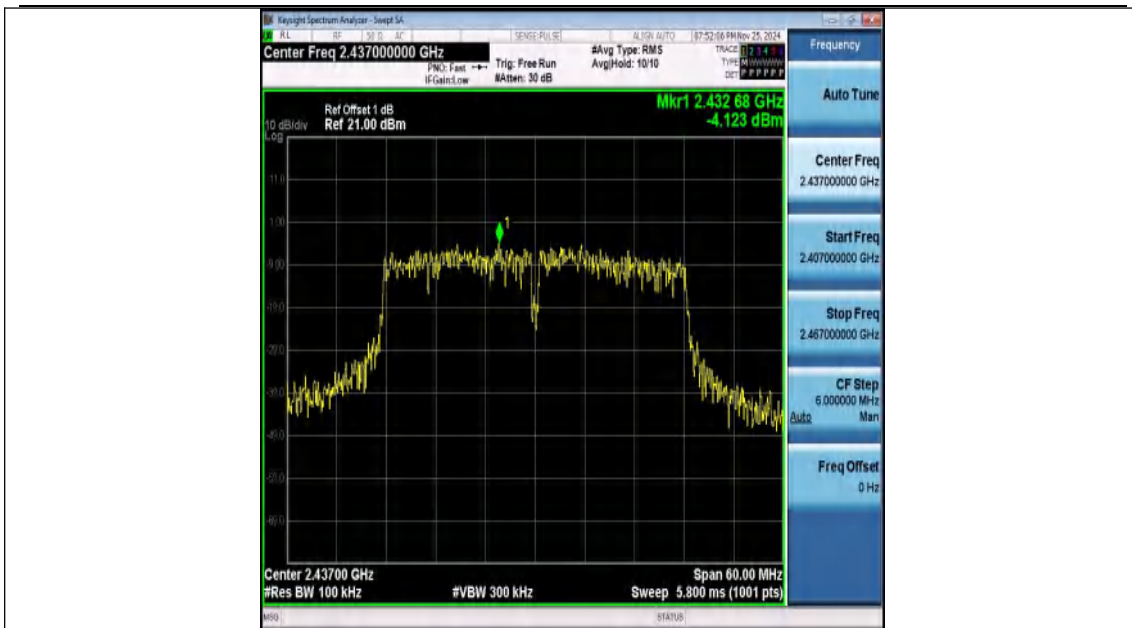




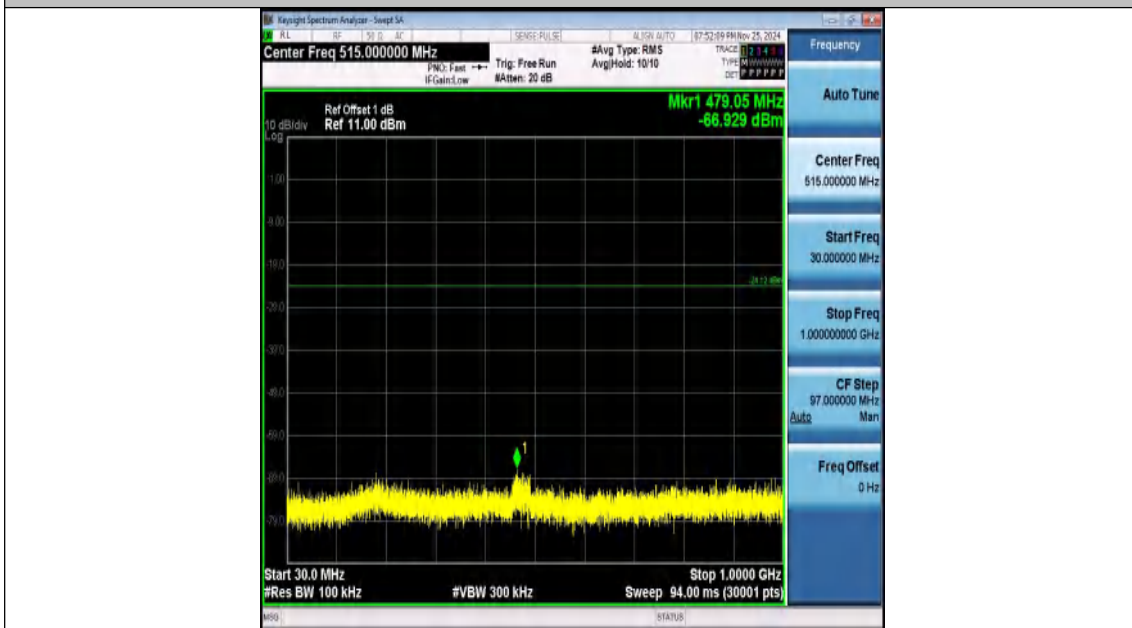






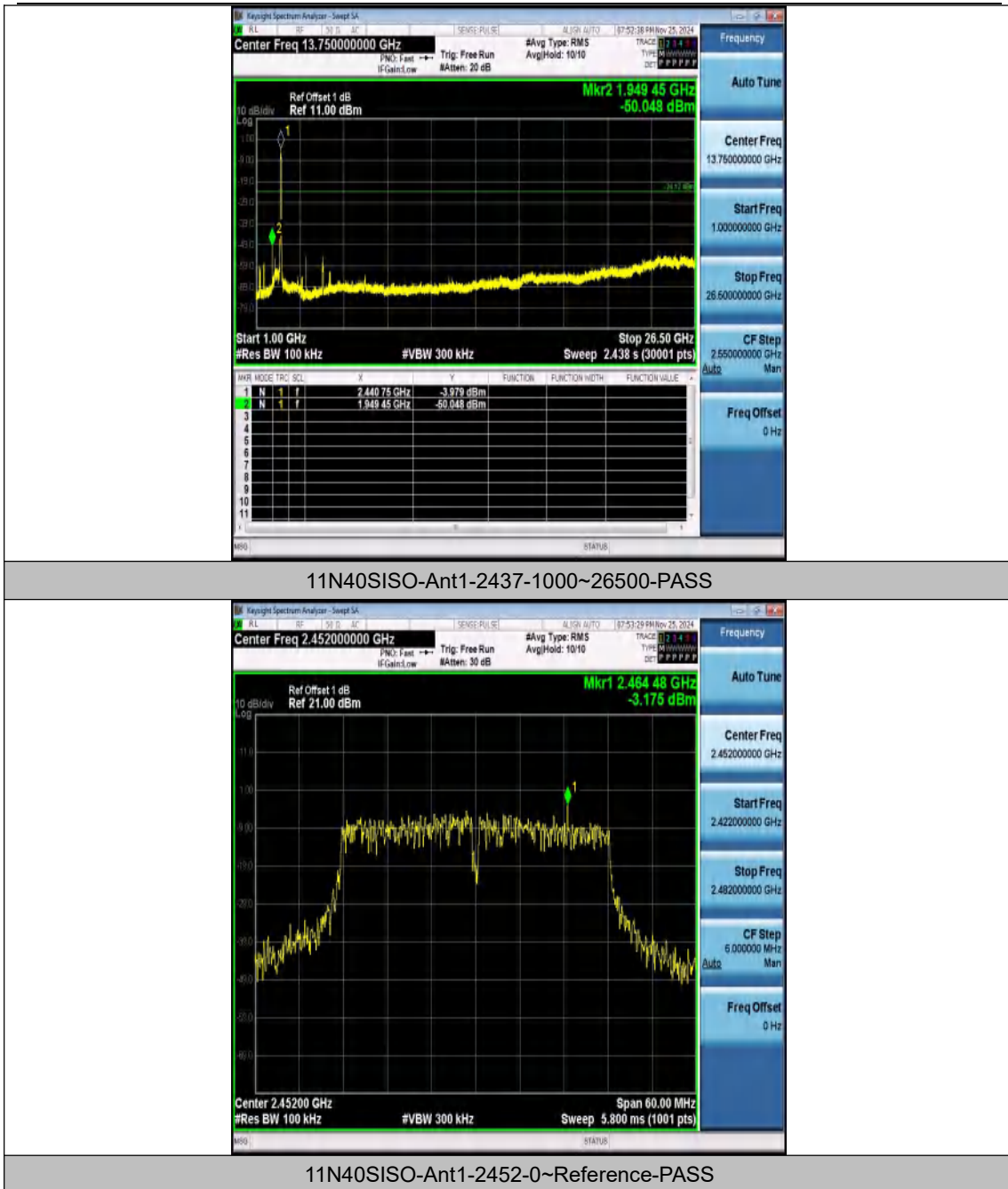


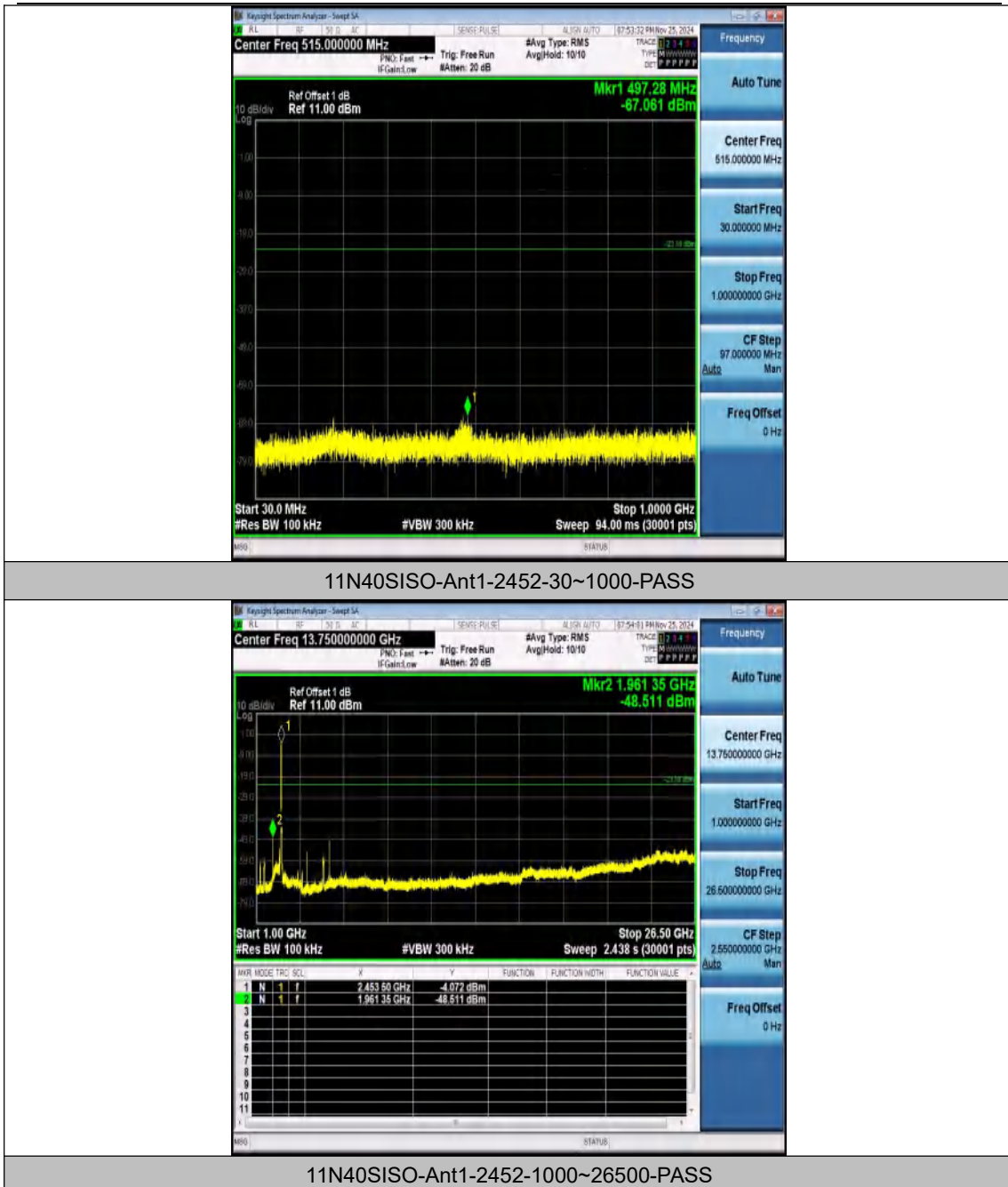
11N40SISO-Ant1-2437-0~Reference-PASS

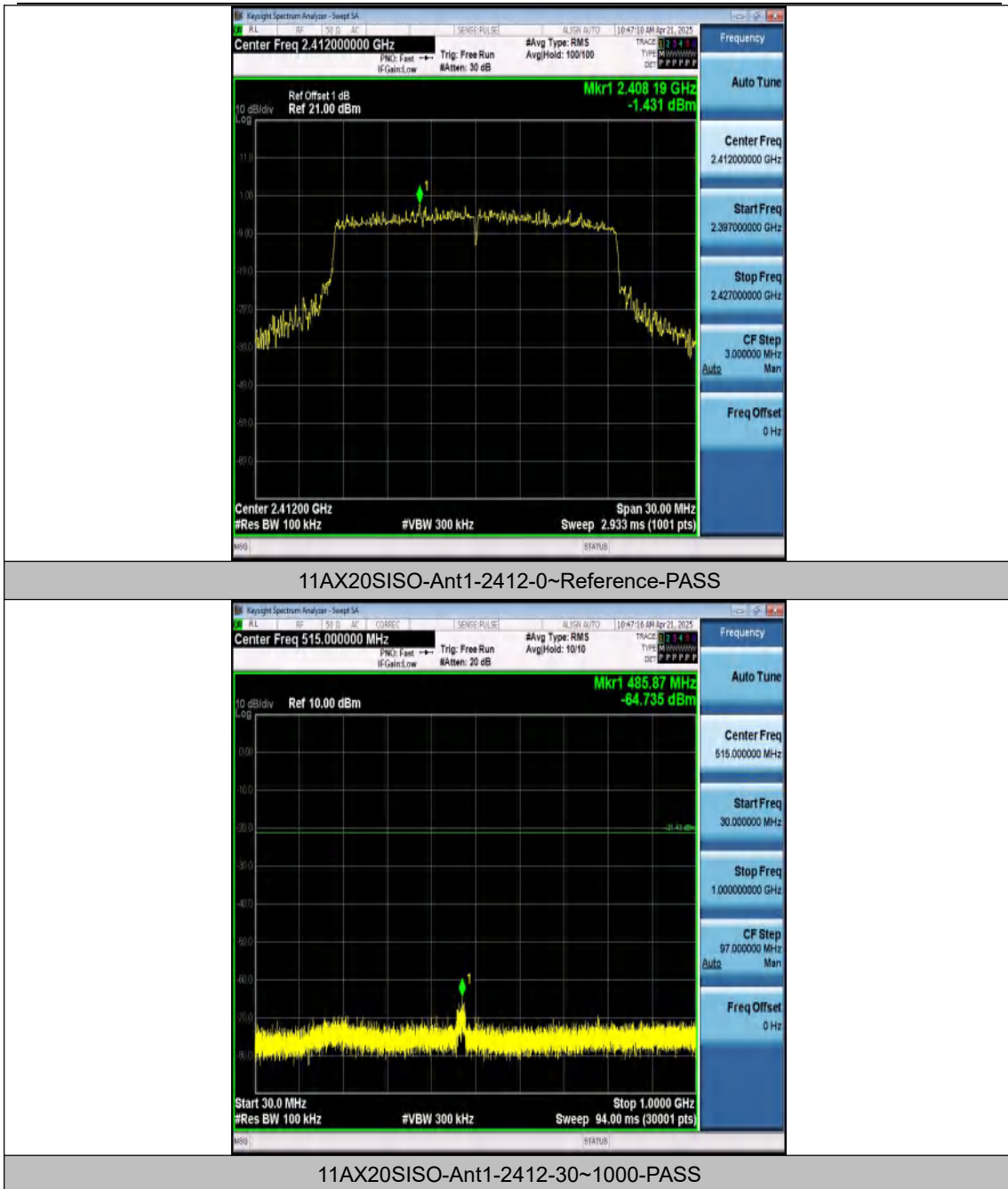


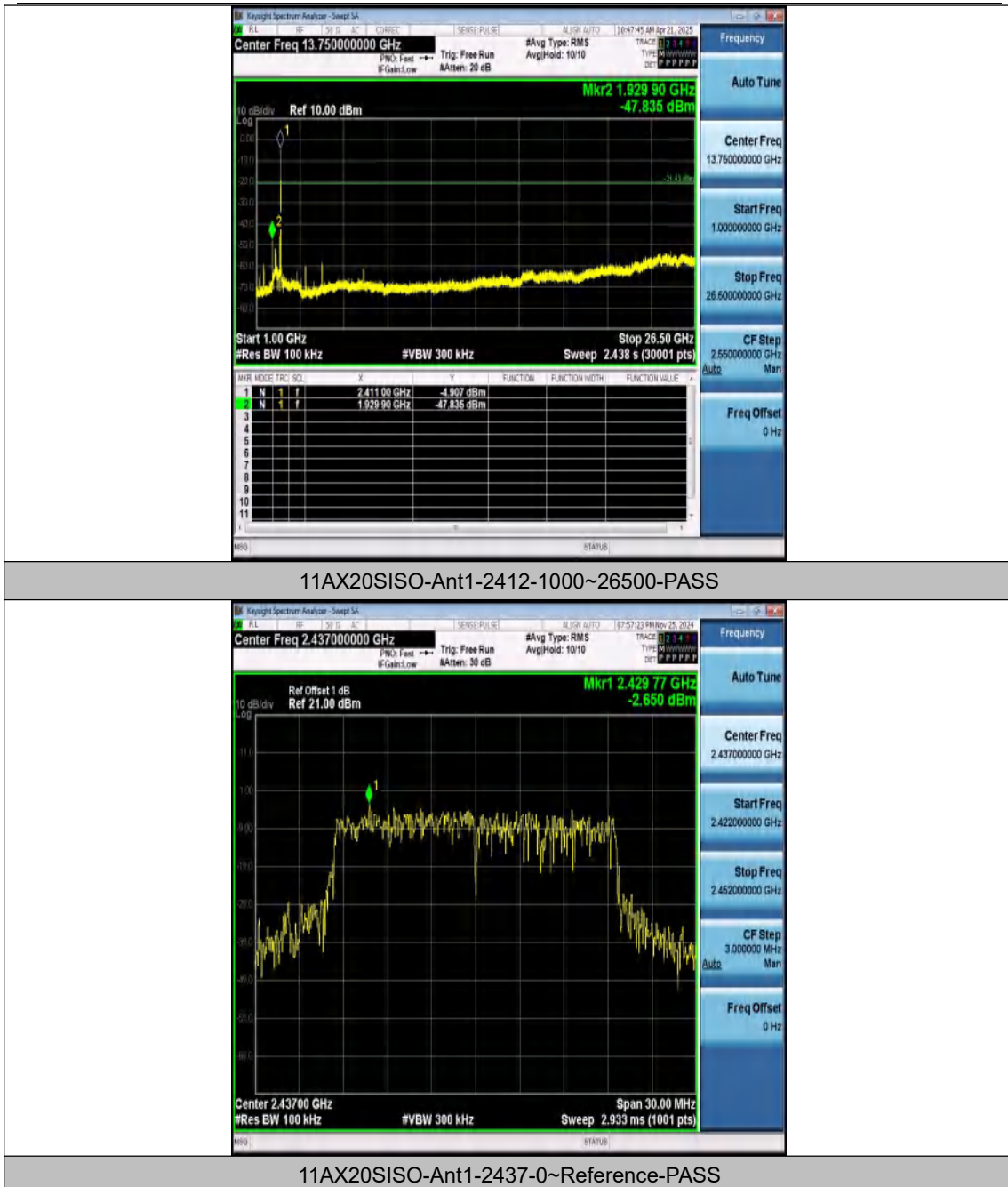
11N40SISO-Ant1-2437-30~1000-PASS

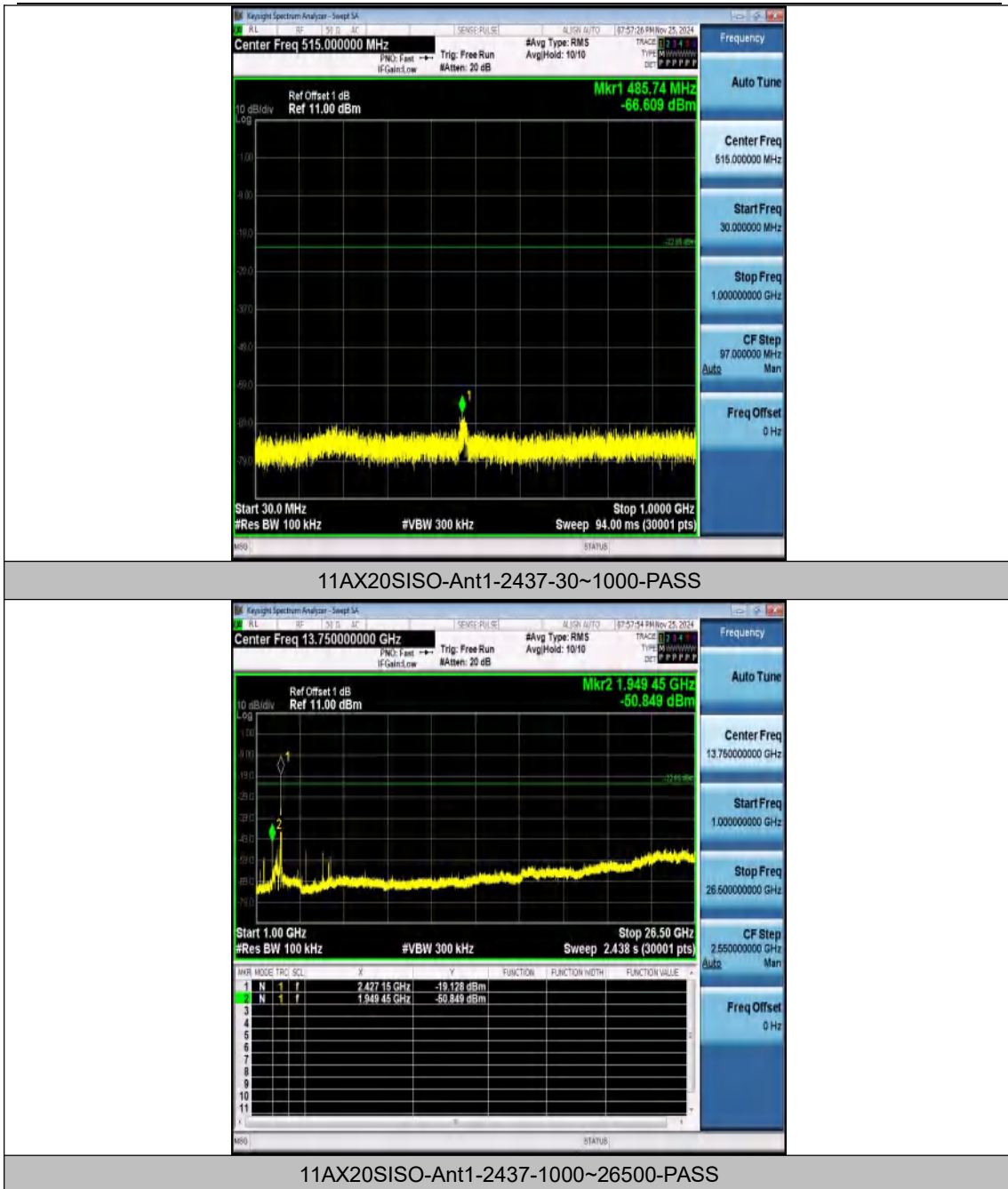


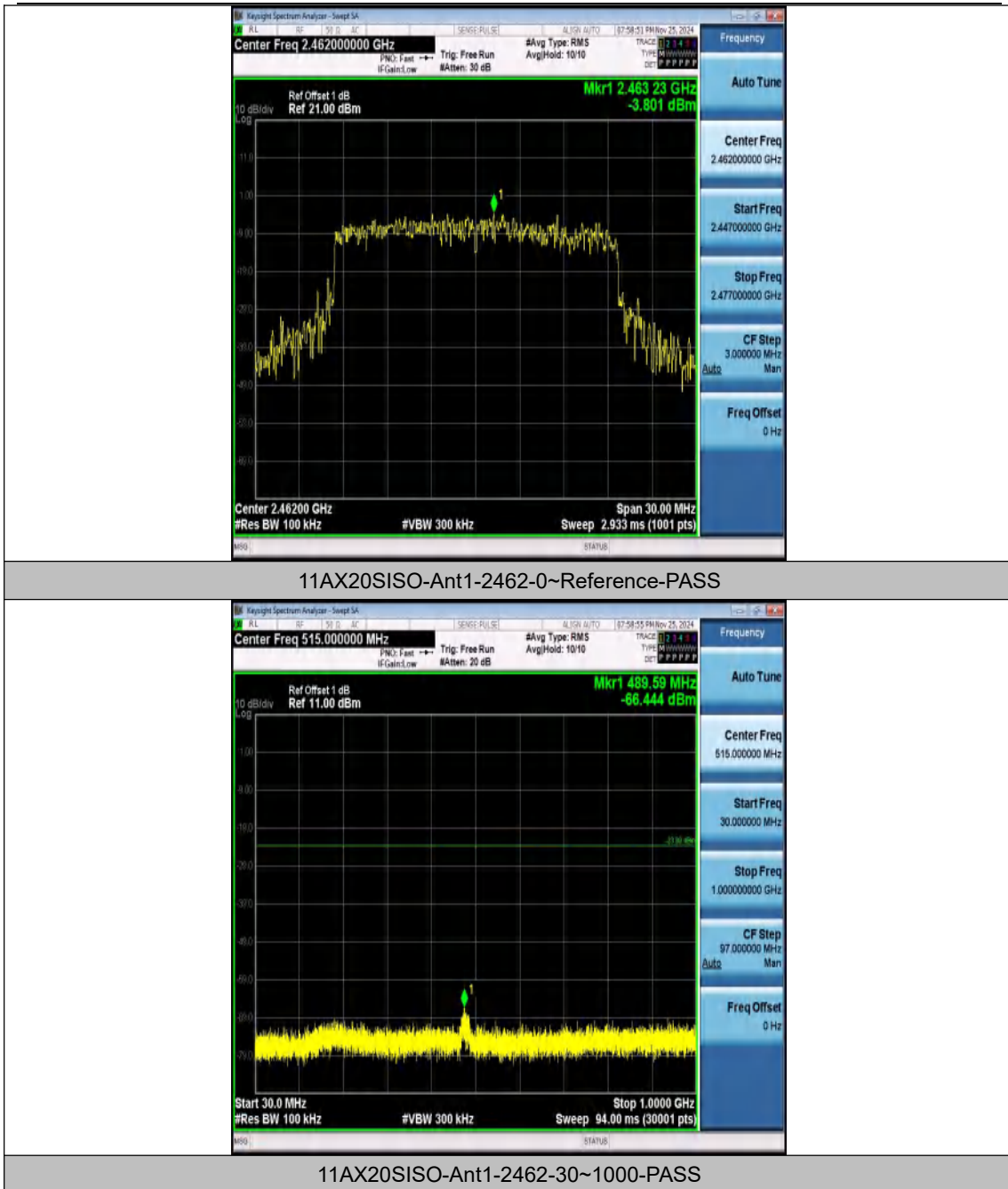


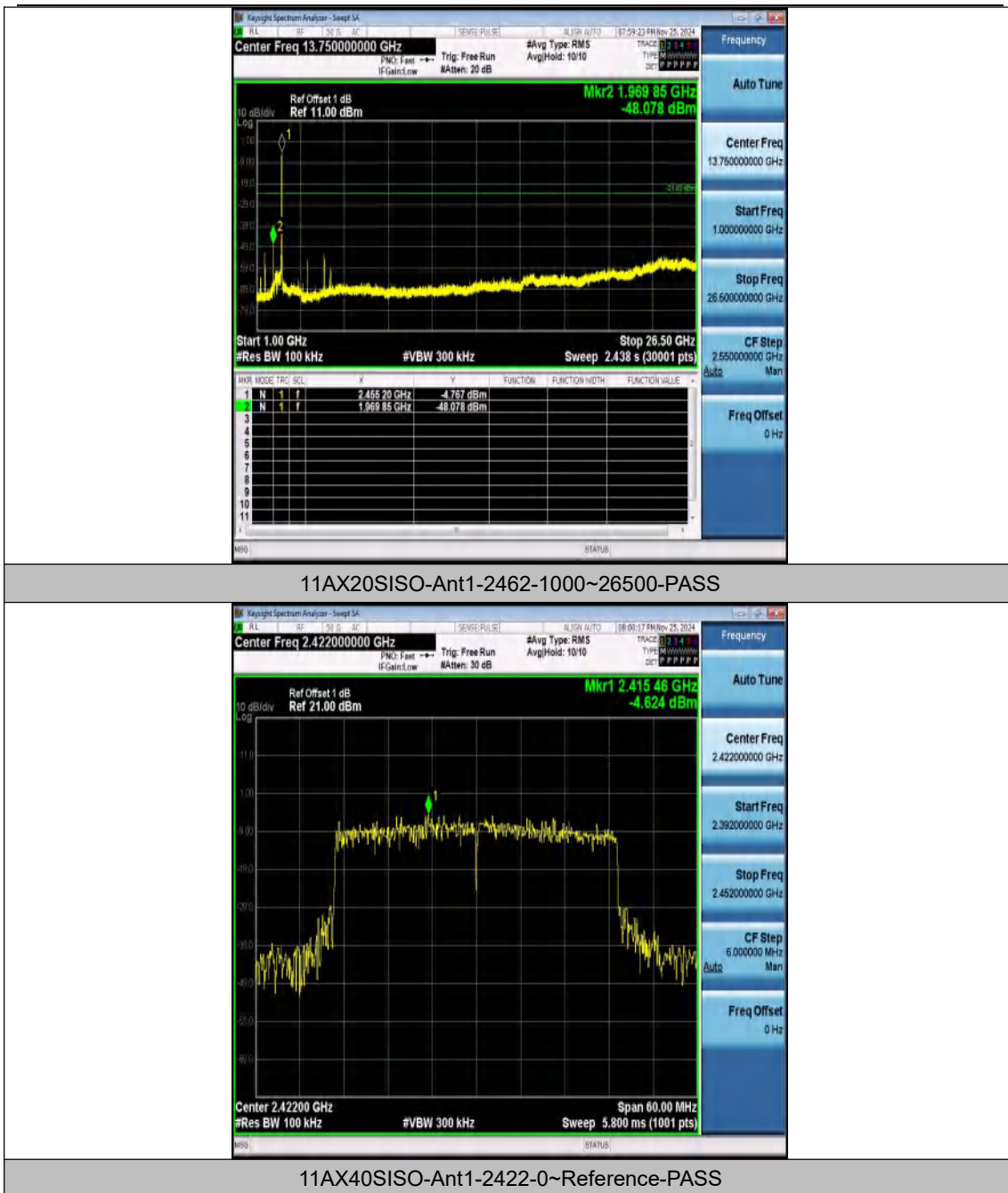


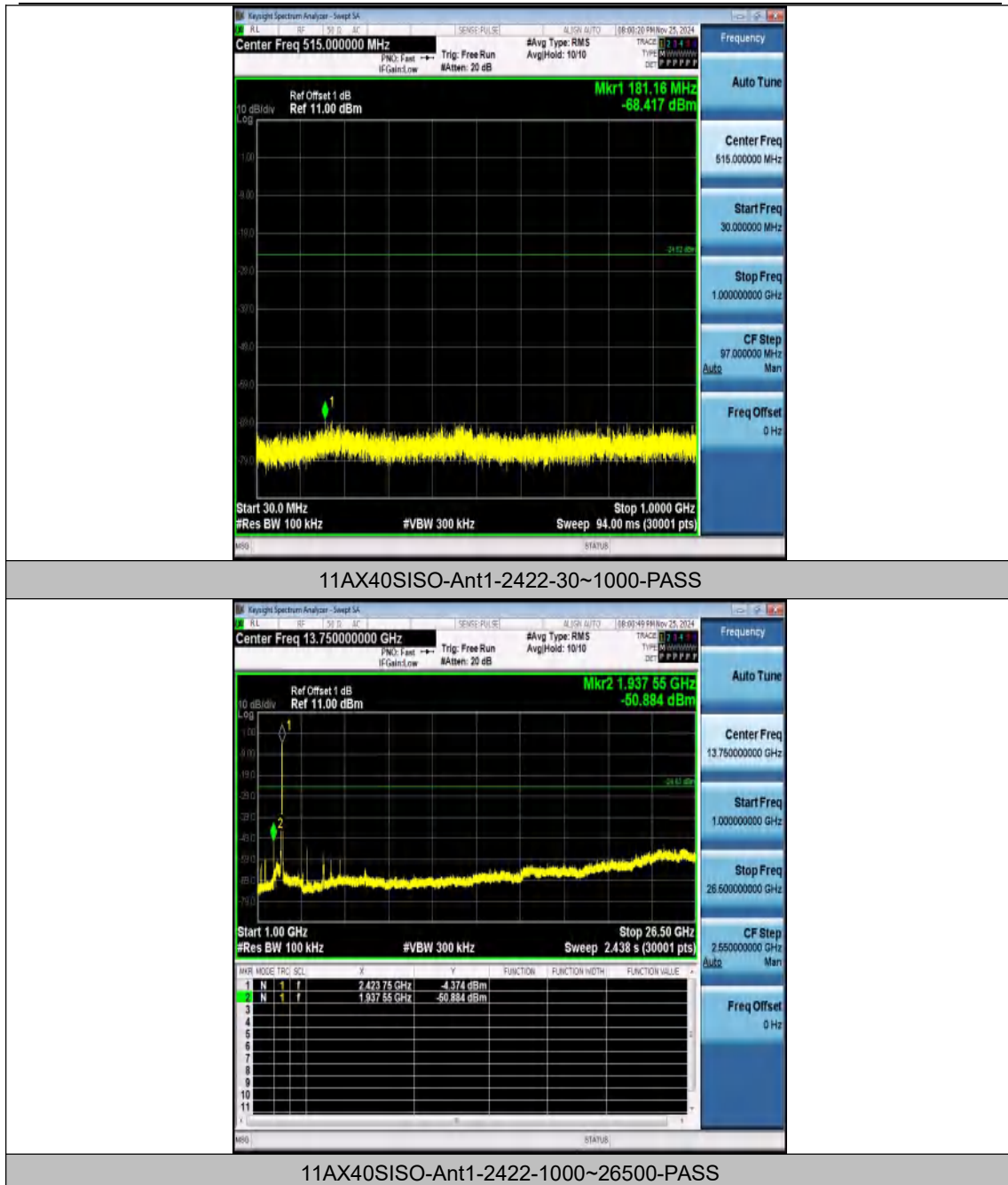


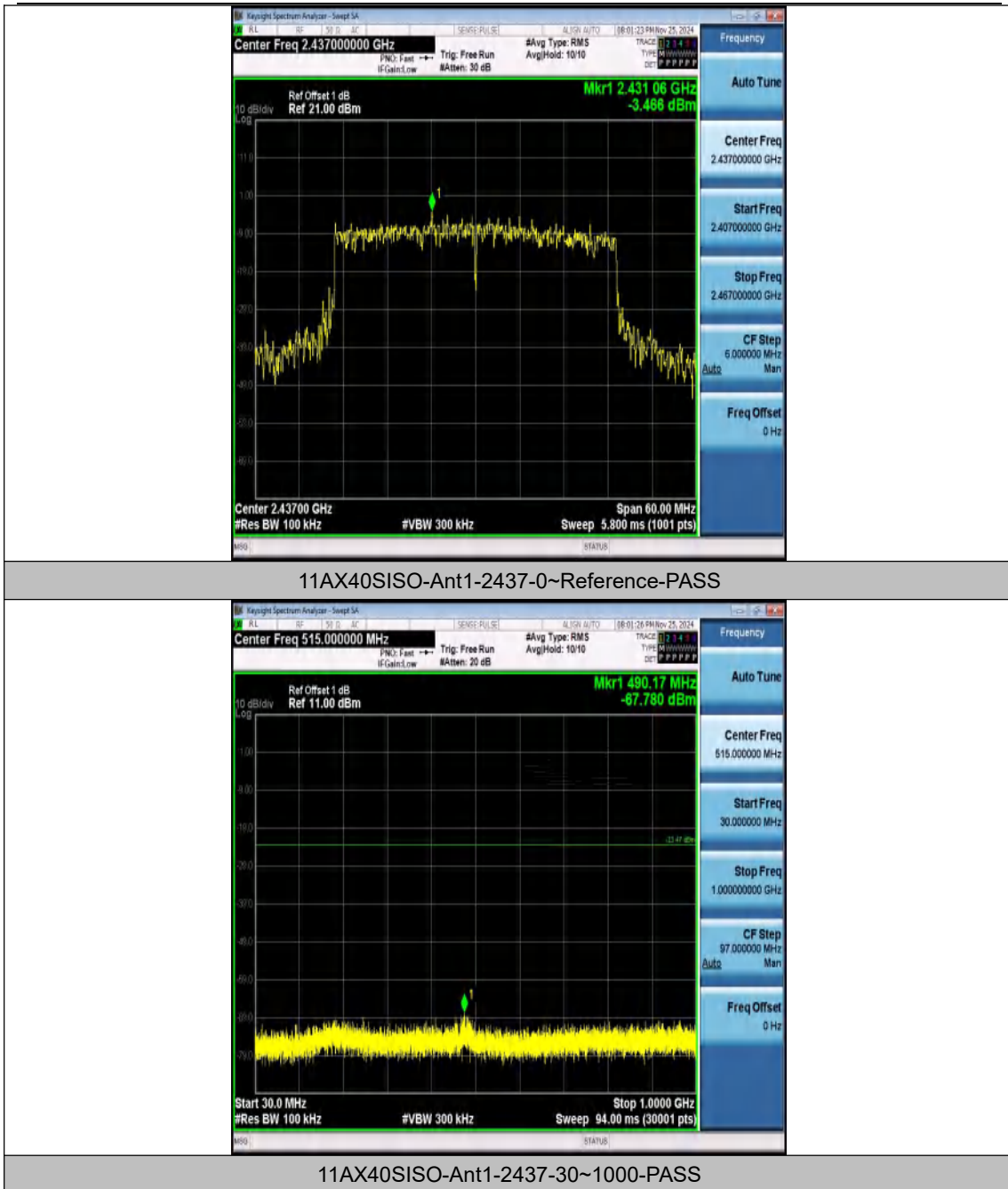


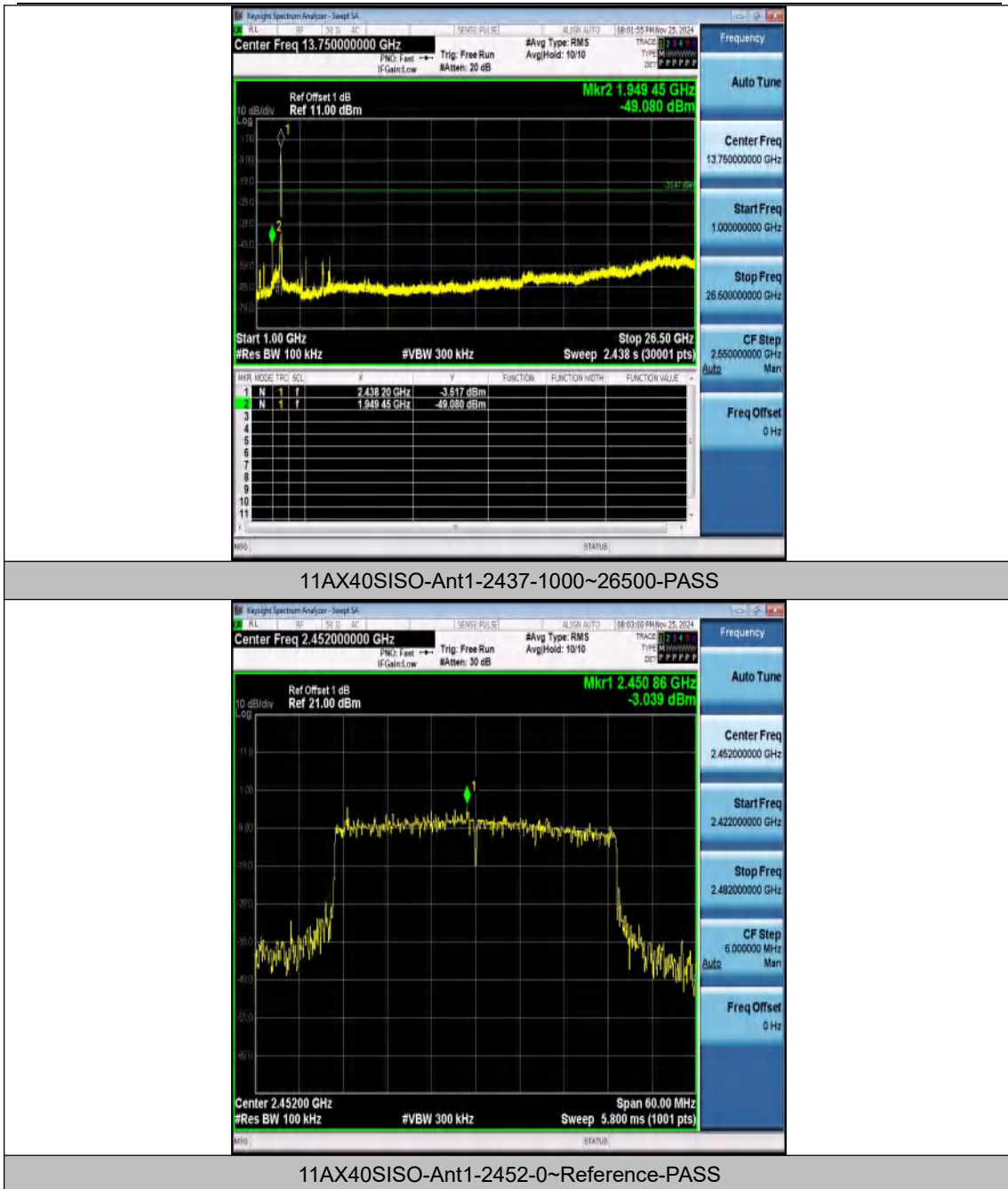


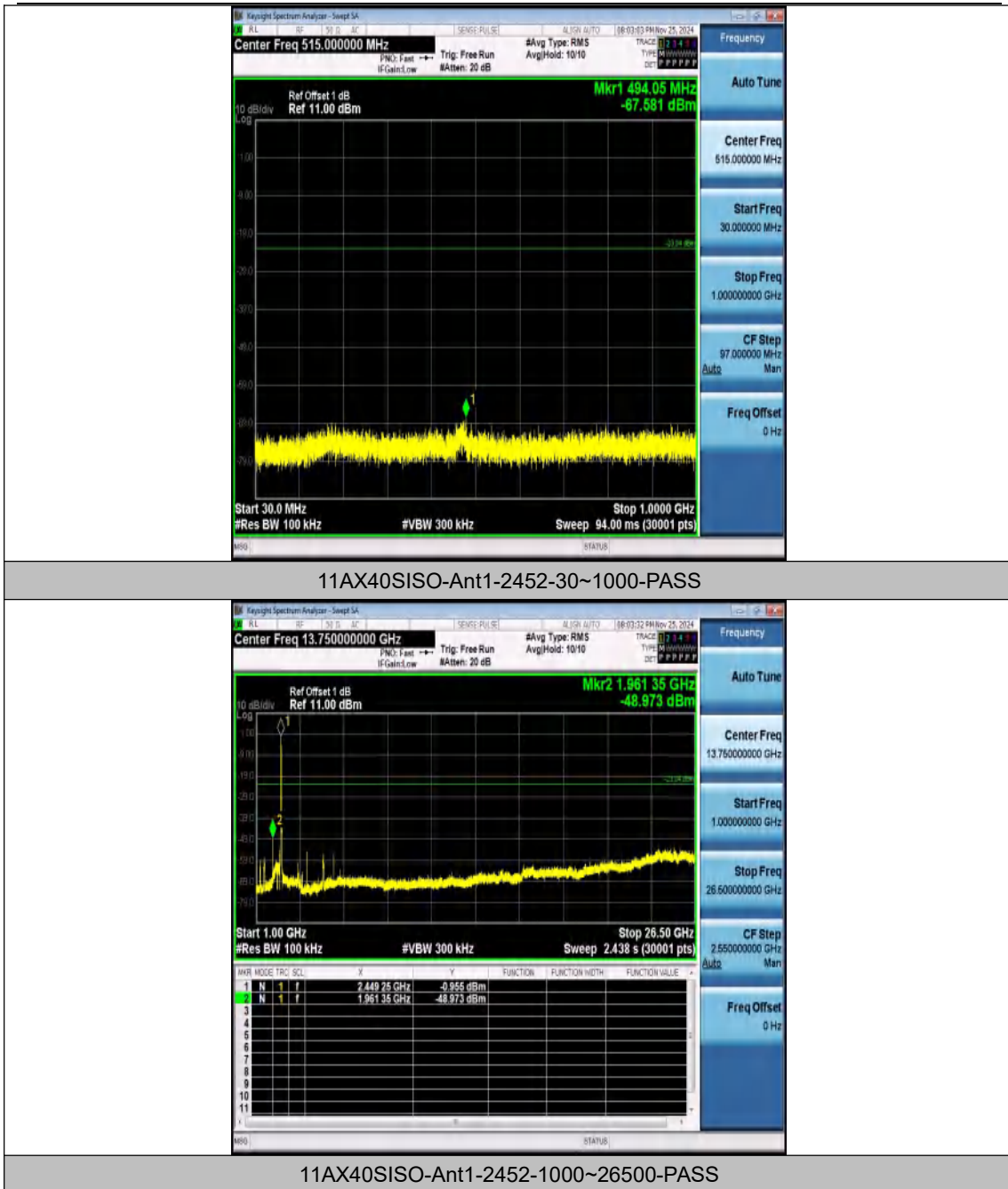












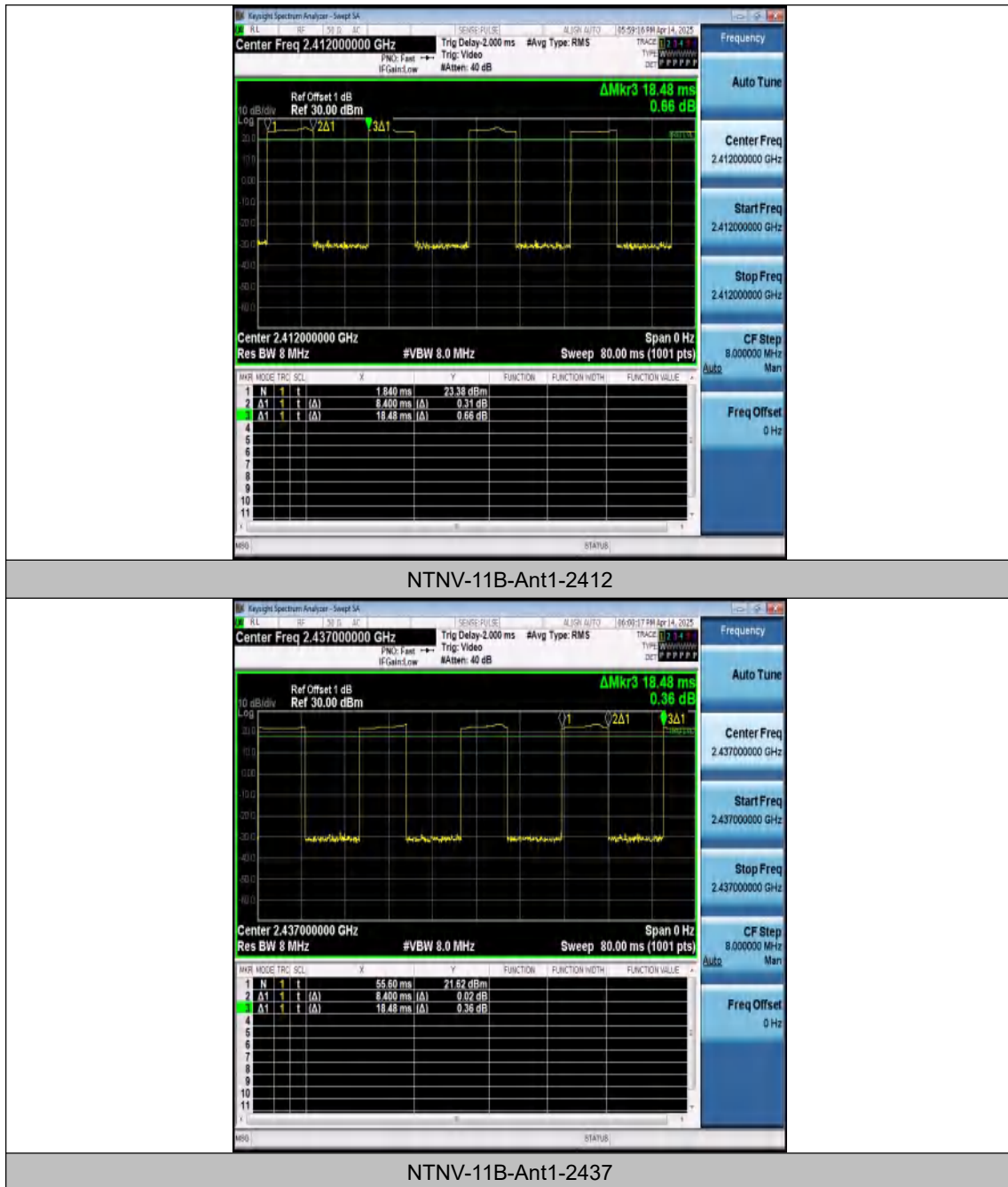
Appendix G: Duty Cycle

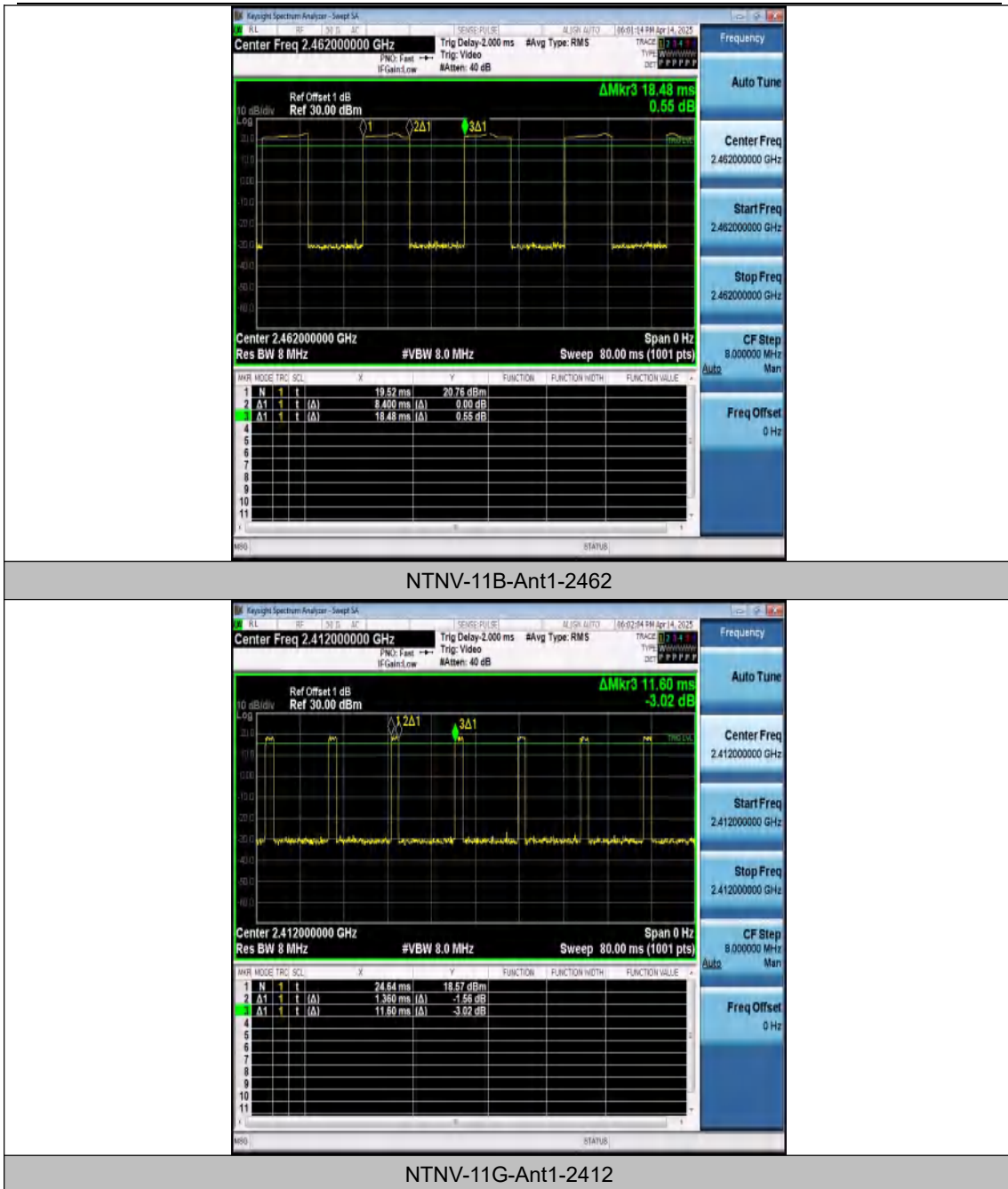
Test Result

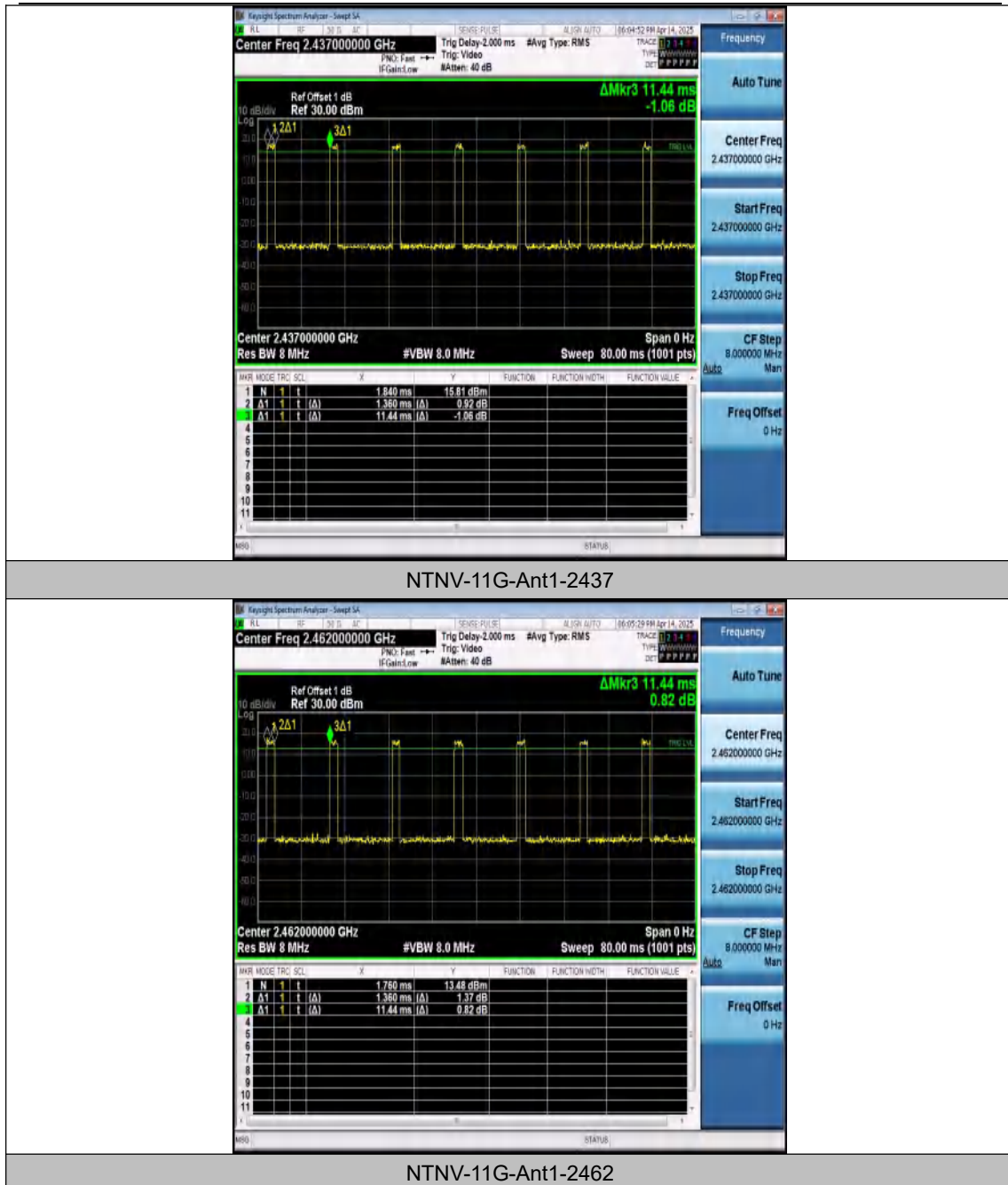
Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	8.40	18.48	45.45	3.42
11B	Ant1	2437	8.40	18.48	45.45	3.42
11B	Ant1	2462	8.40	18.48	45.45	3.42
11G	Ant1	2412	1.36	11.60	11.72	9.31
11G	Ant1	2437	1.36	11.44	11.89	9.25
11G	Ant1	2462	1.36	11.44	11.89	9.25
11N20SISO	Ant1	2412	5.04	16.56	30.43	5.17
11N20SISO	Ant1	2437	5.12	17.60	29.09	5.36
11N20SISO	Ant1	2462	5.04	15.12	33.33	4.77
11N40SISO	Ant1	2422	4.88	14.96	32.62	4.87
11N40SISO	Ant1	2437	4.88	14.96	32.62	4.87
11N40SISO	Ant1	2452	4.88	14.96	32.62	4.87
11AX20SISO	Ant1	2412	3.84	13.92	27.59	5.59
11AX20SISO	Ant1	2437	3.84	13.92	27.59	5.59
11AX20SISO	Ant1	2462	3.84	13.92	27.59	5.59
11AX40SISO	Ant1	2422	3.84	13.92	27.59	5.59
11AX40SISO	Ant1	2437	3.84	13.92	27.59	5.59
11AX40SISO	Ant1	2452	3.84	13.92	27.59	5.59

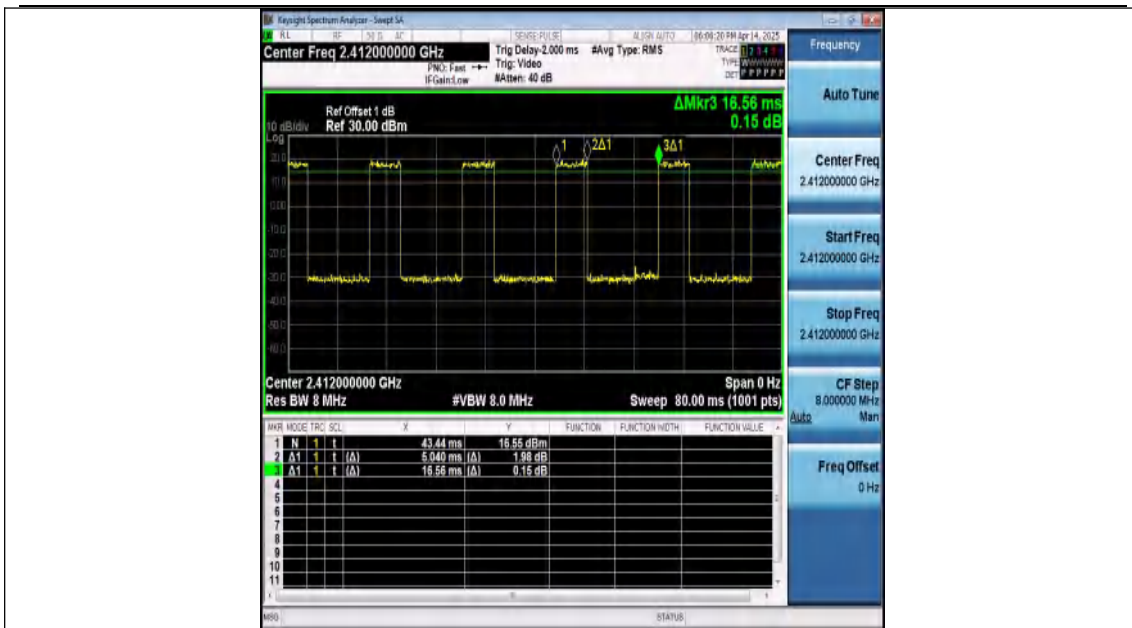


Test Graphs

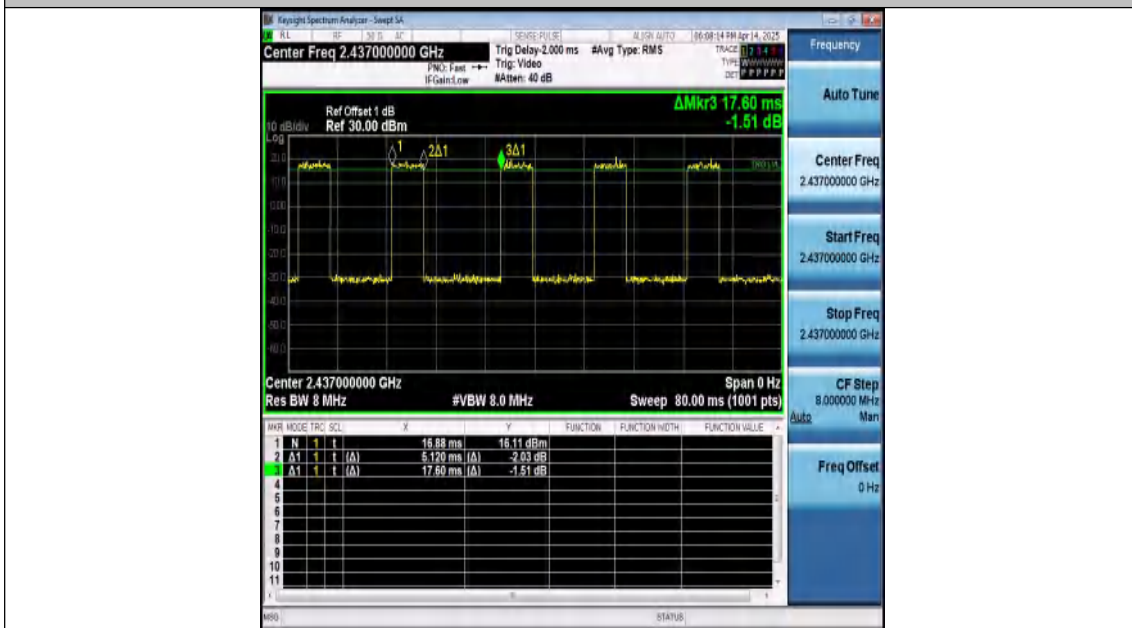






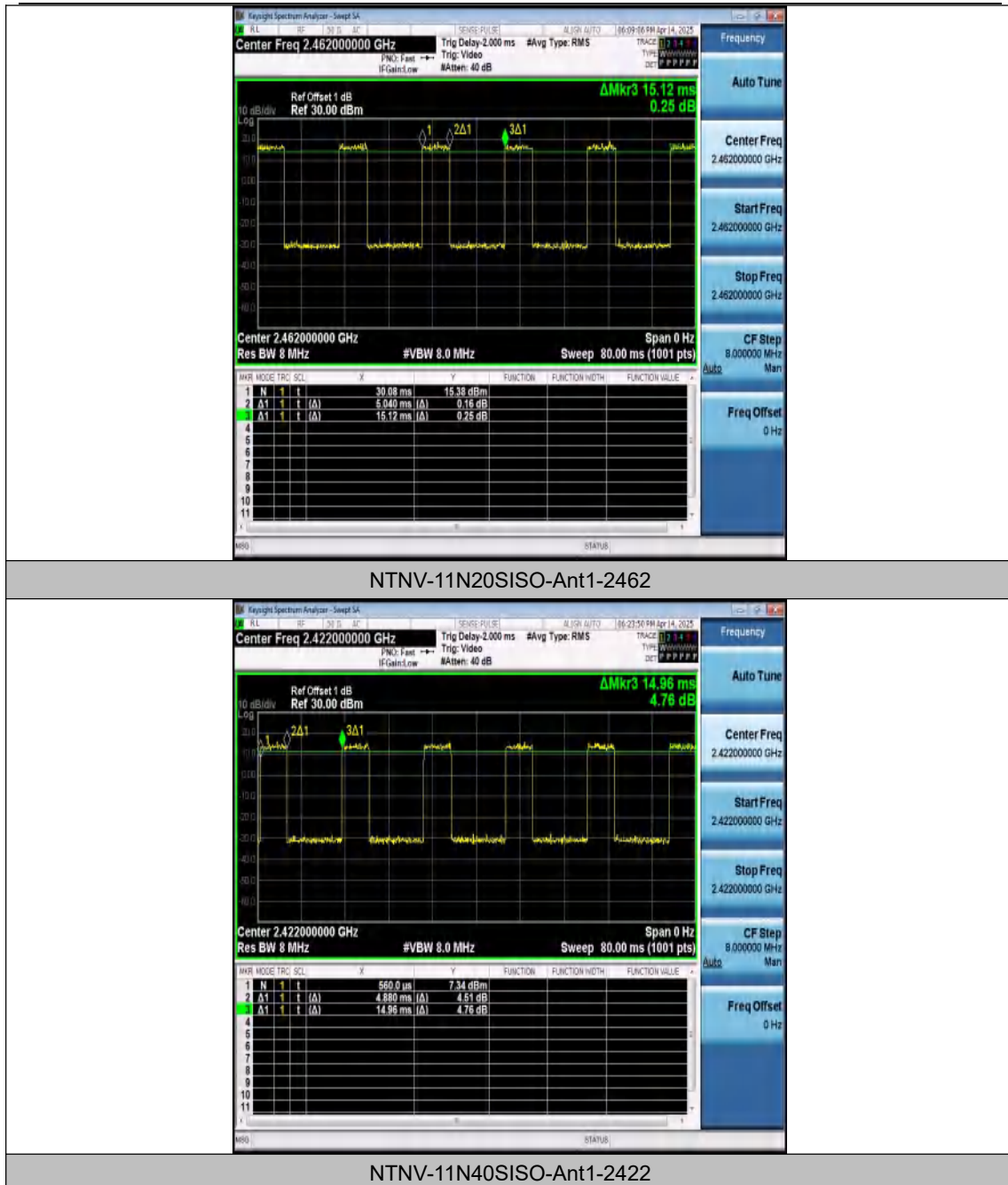


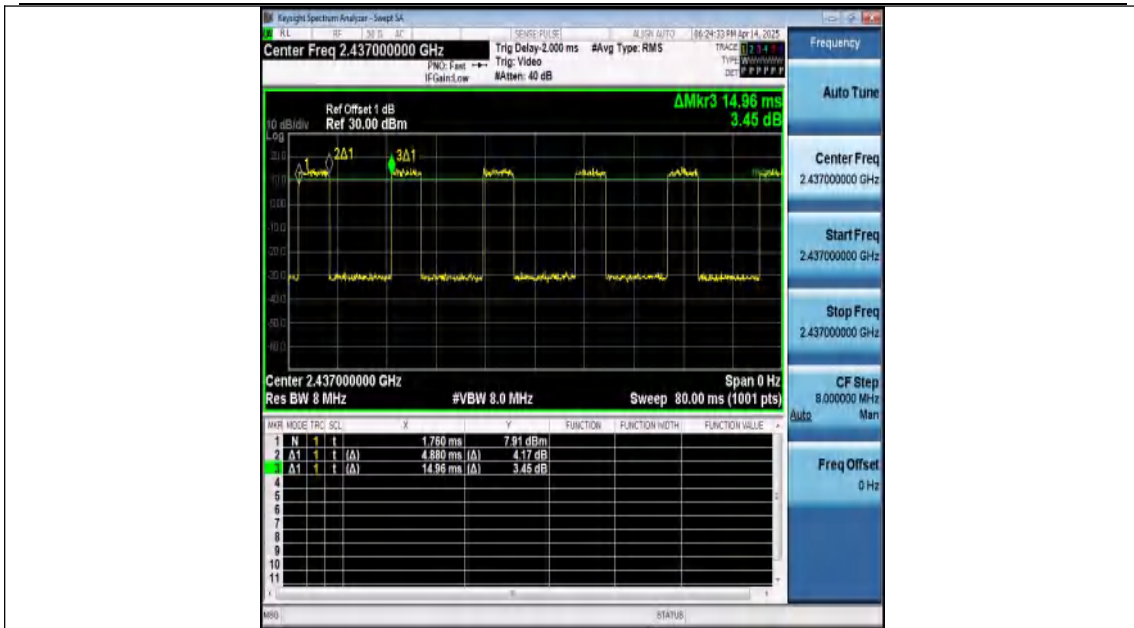
NTNV-11N20SISO-Ant1-2412



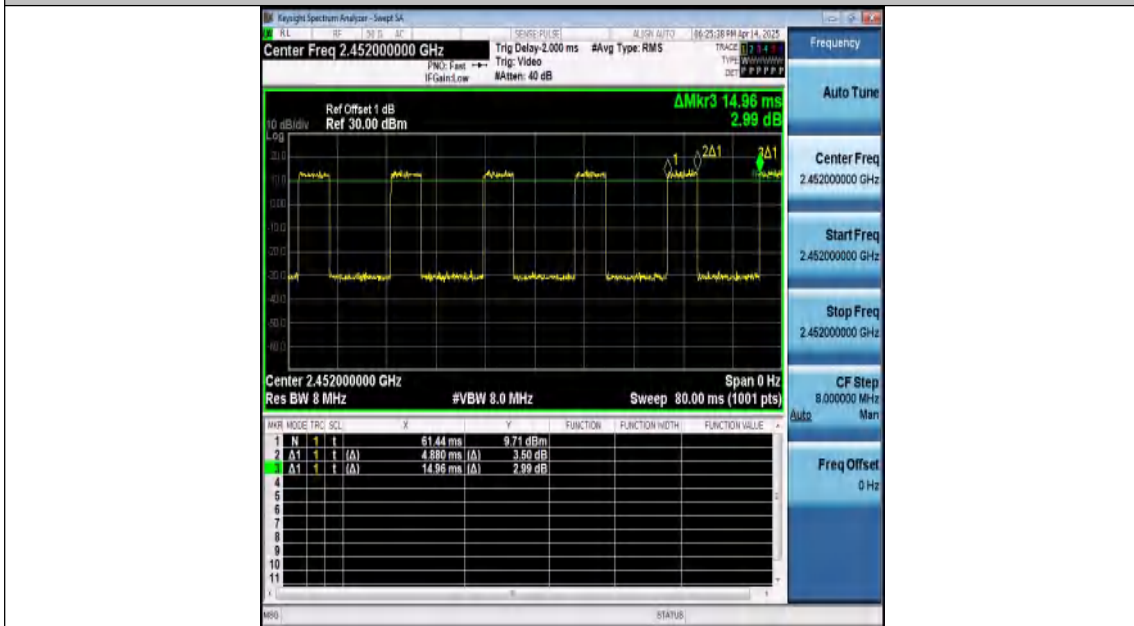
NTNV-11N20SISO-Ant1-2437





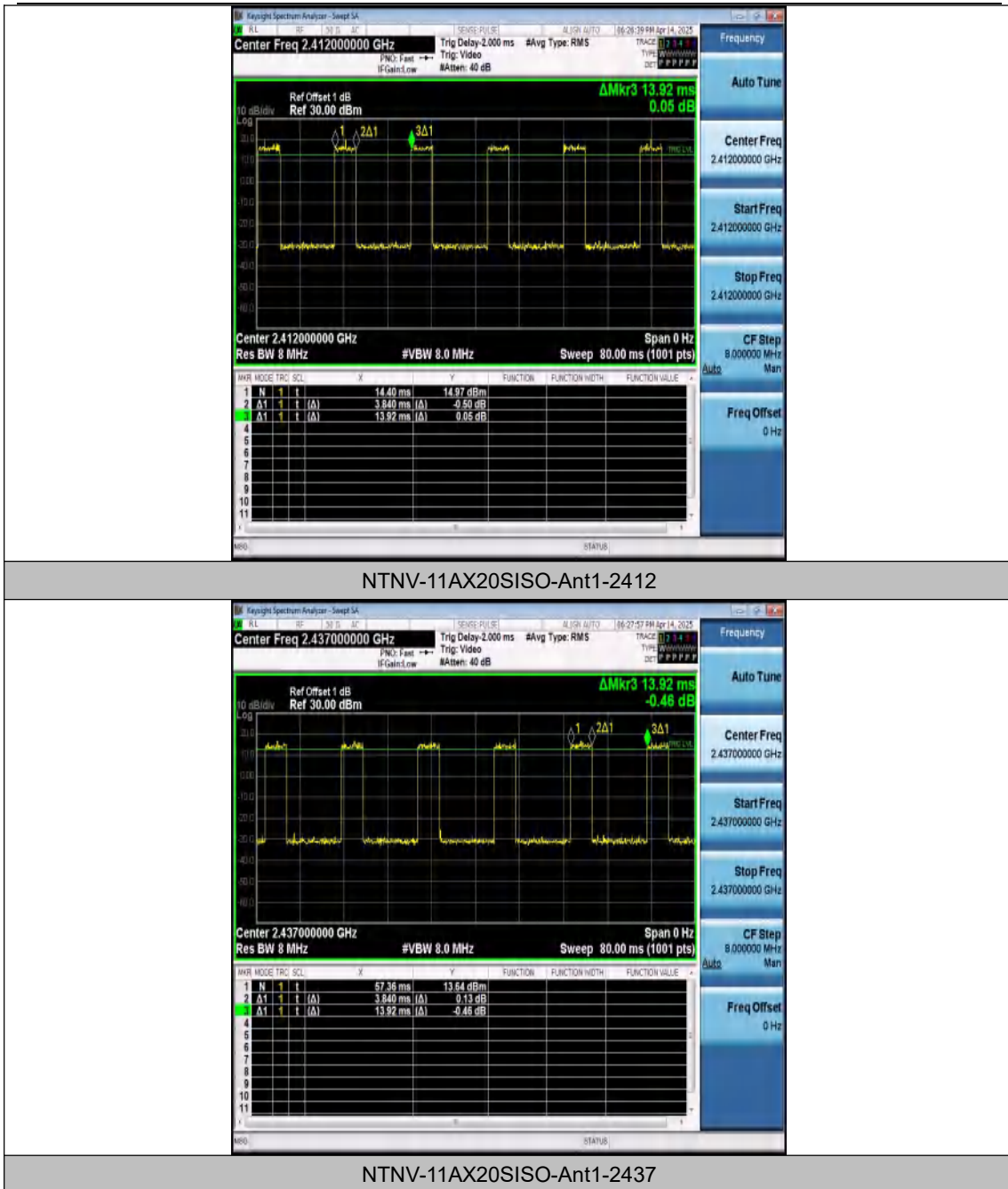


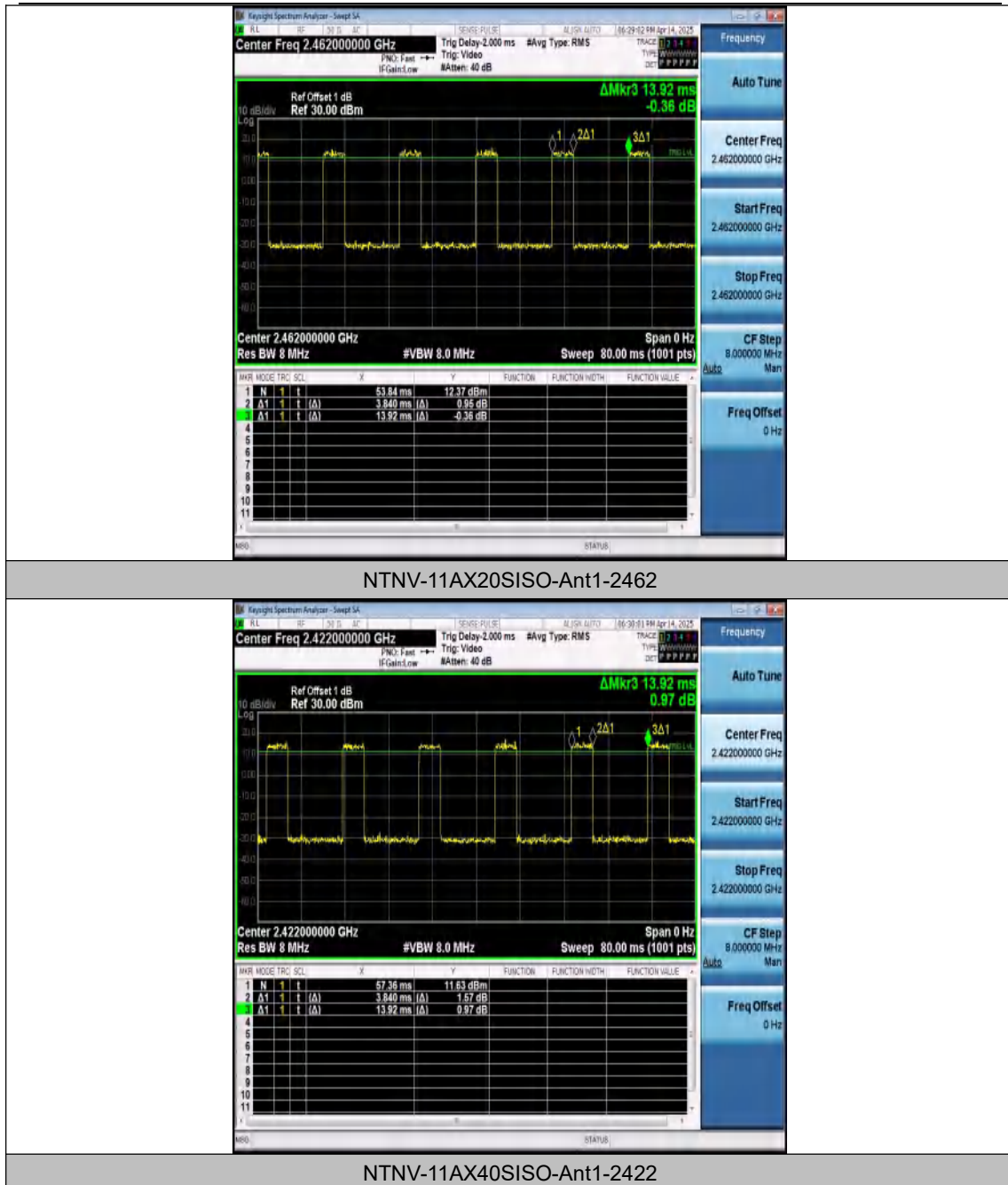
NTNV-11N40SISO-Ant1-2437

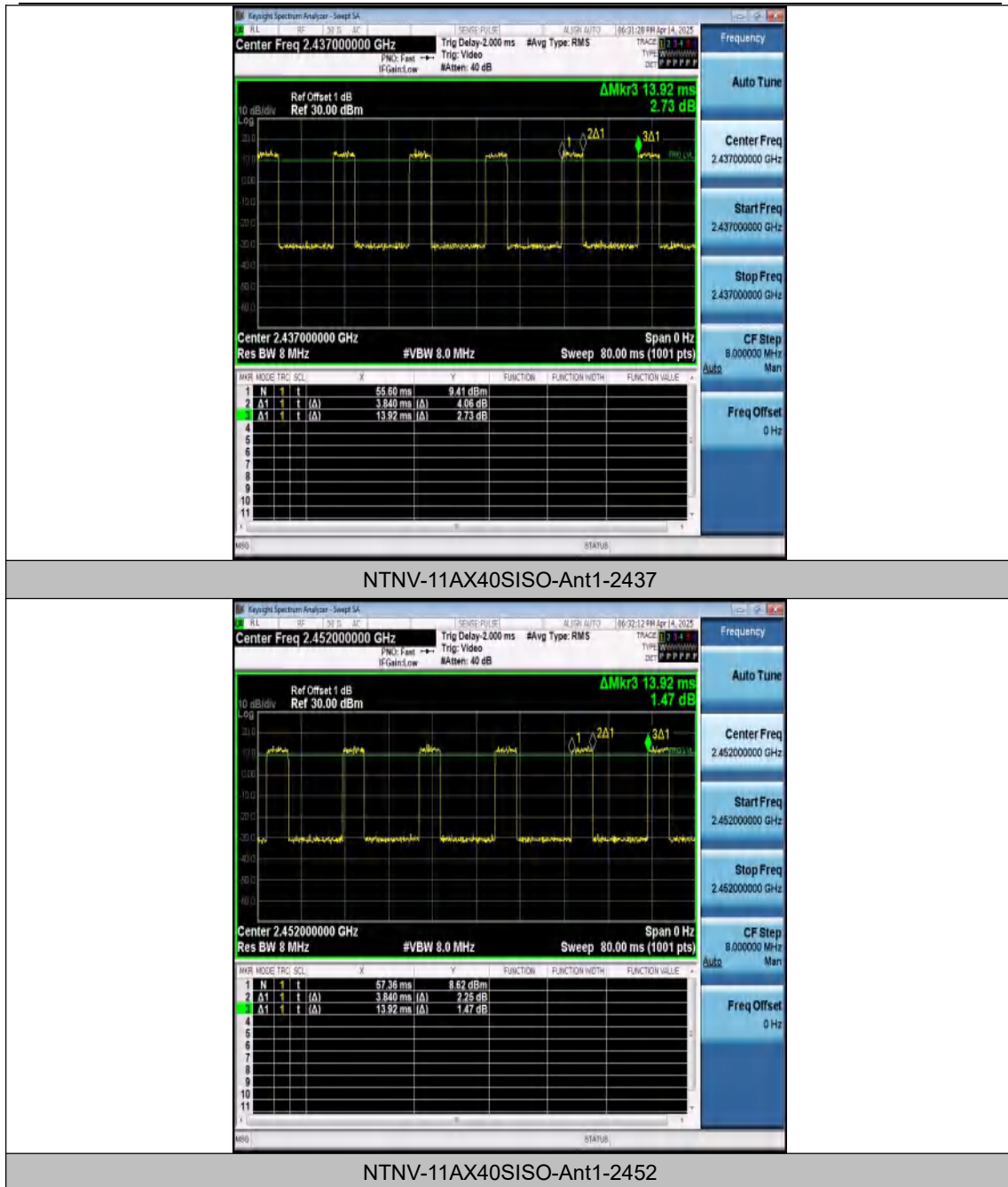


NTNV-11N40SISO-Ant1-2452









---End---

