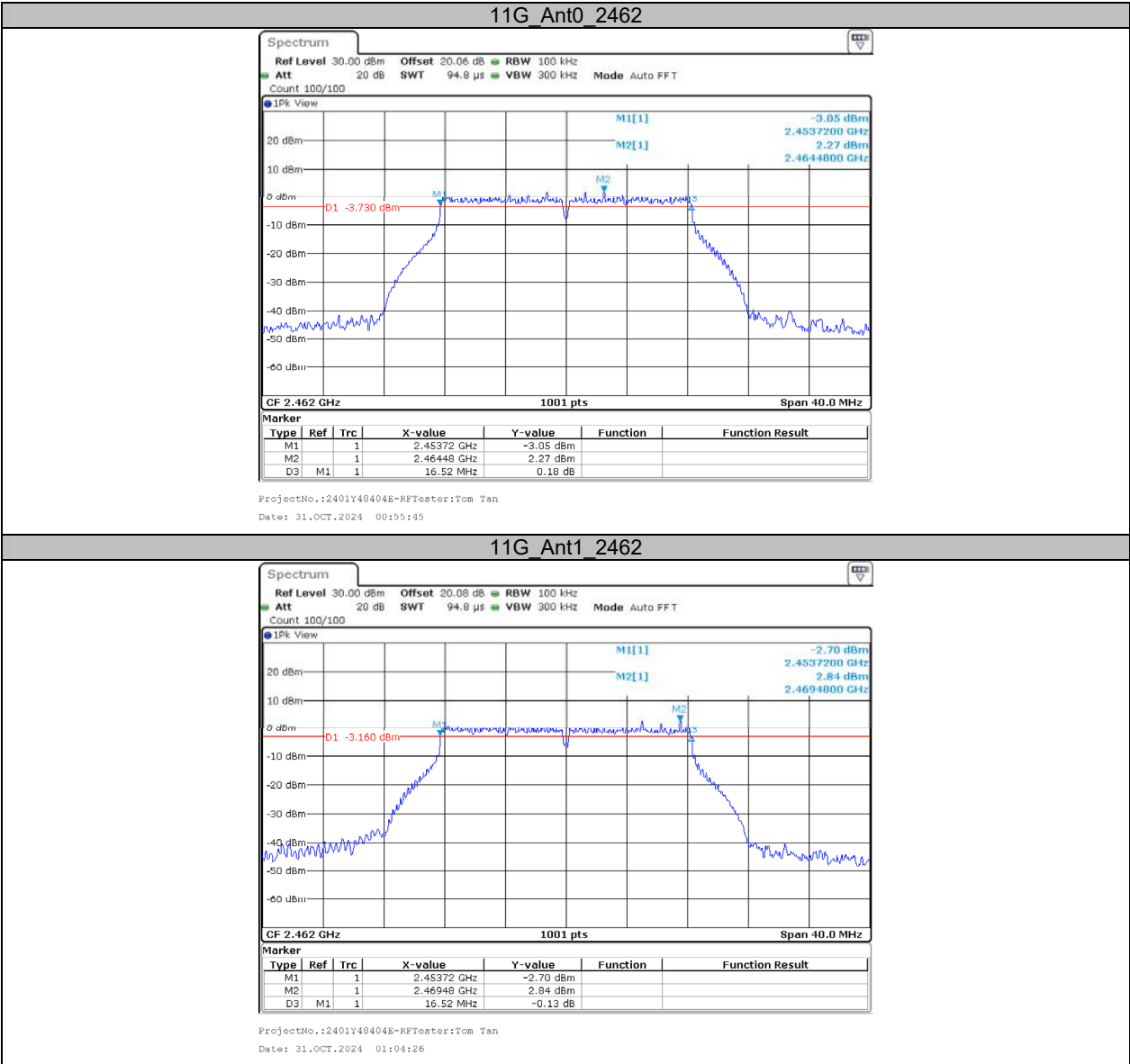
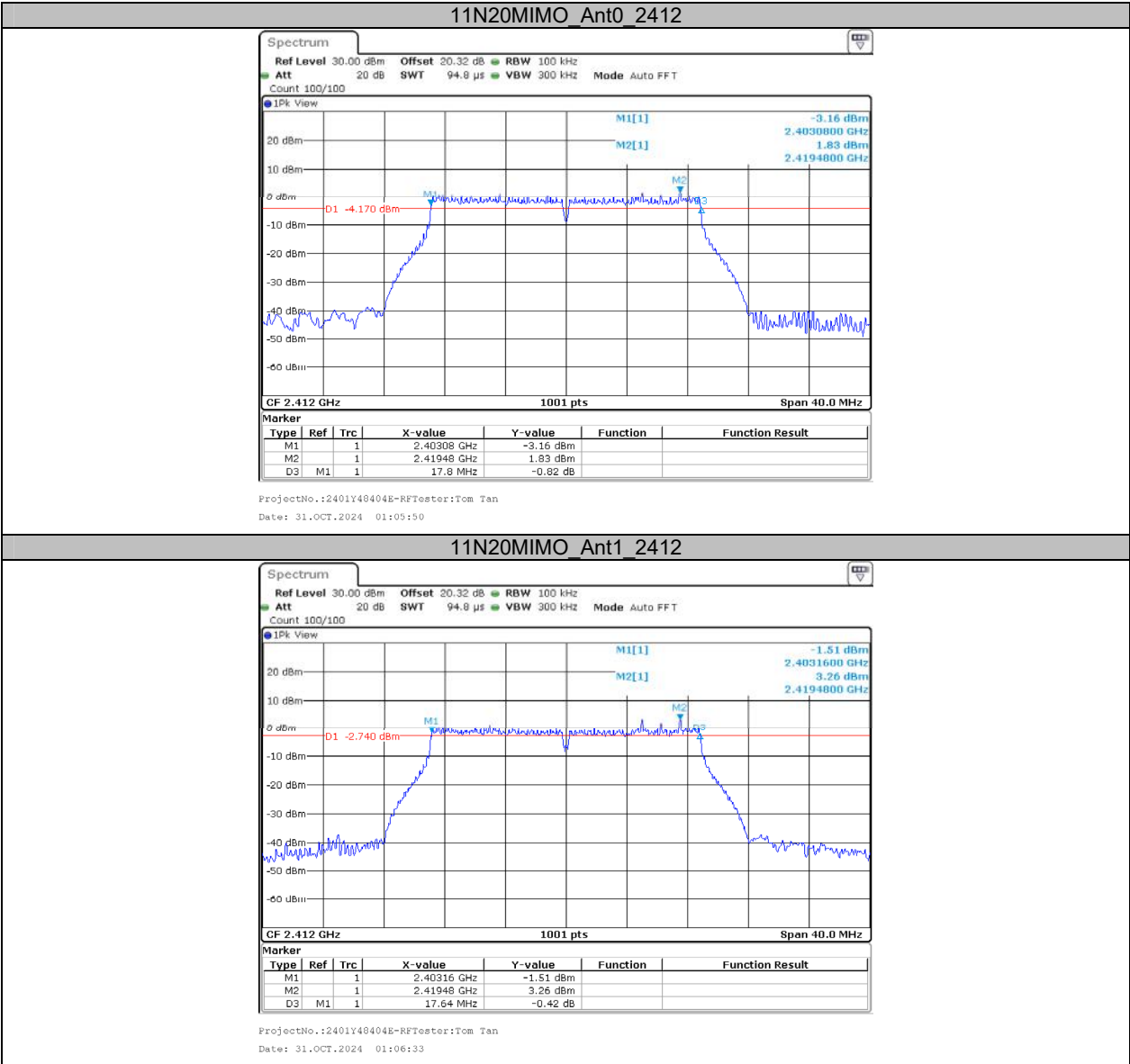
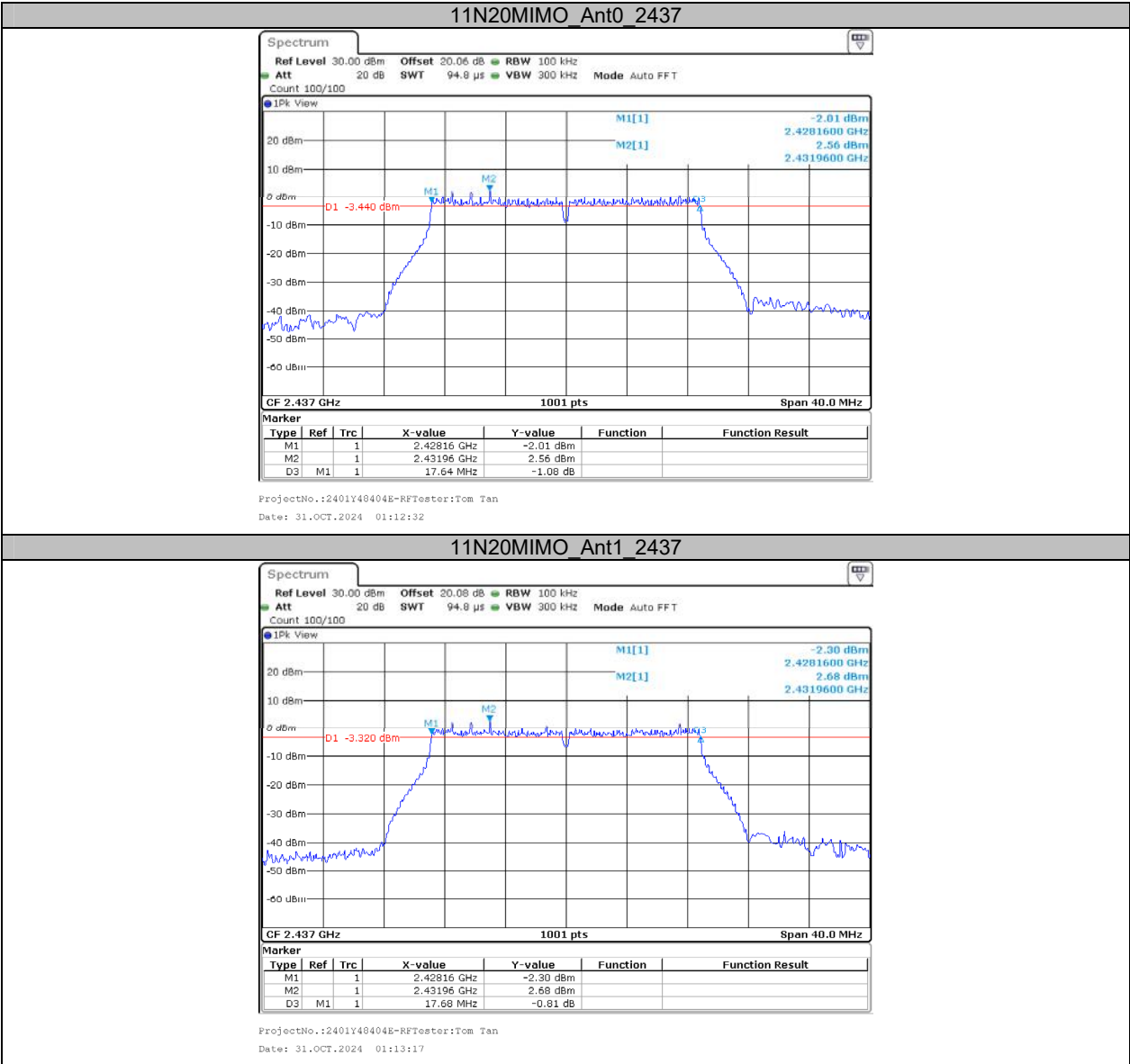
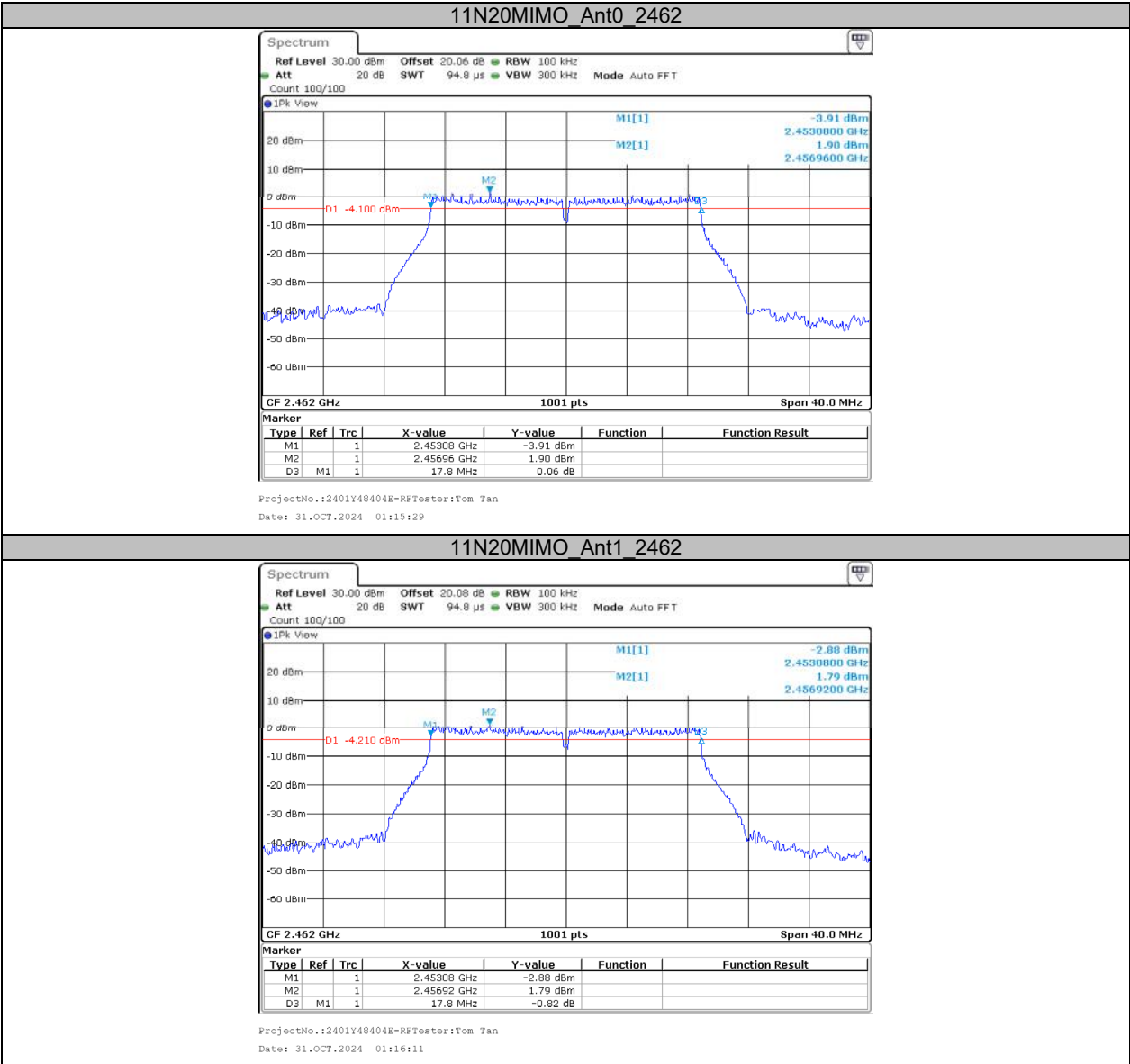
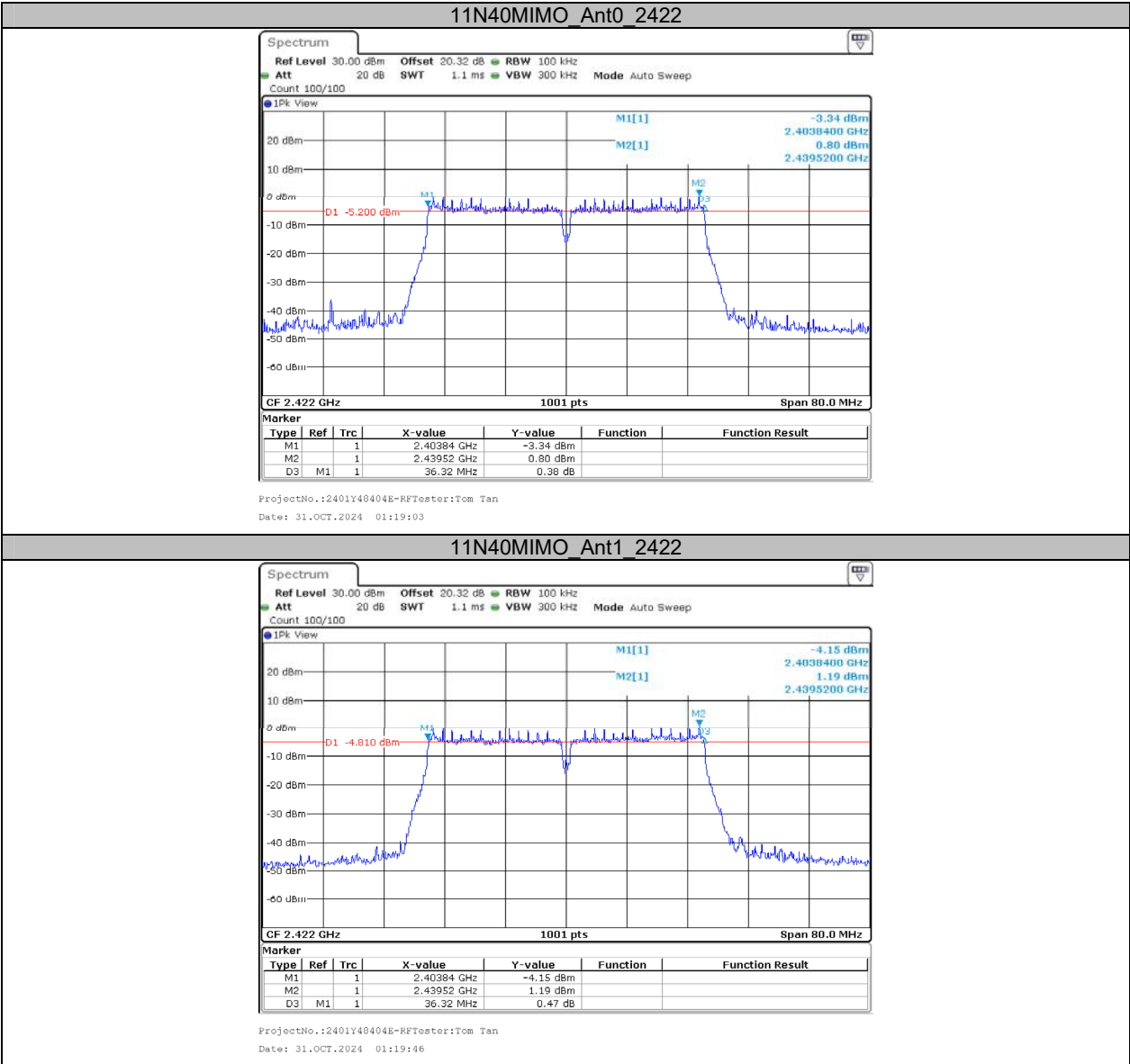


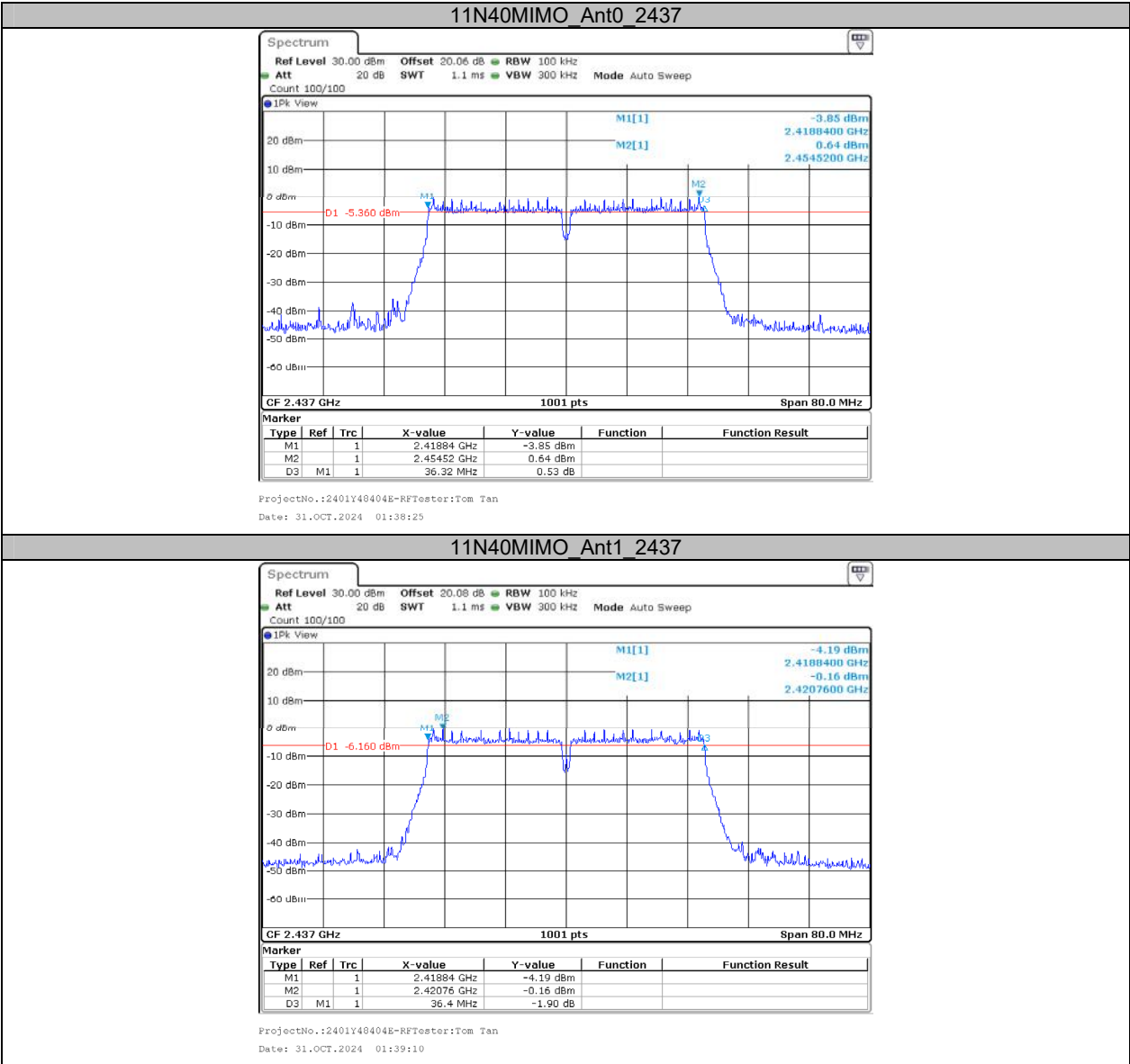


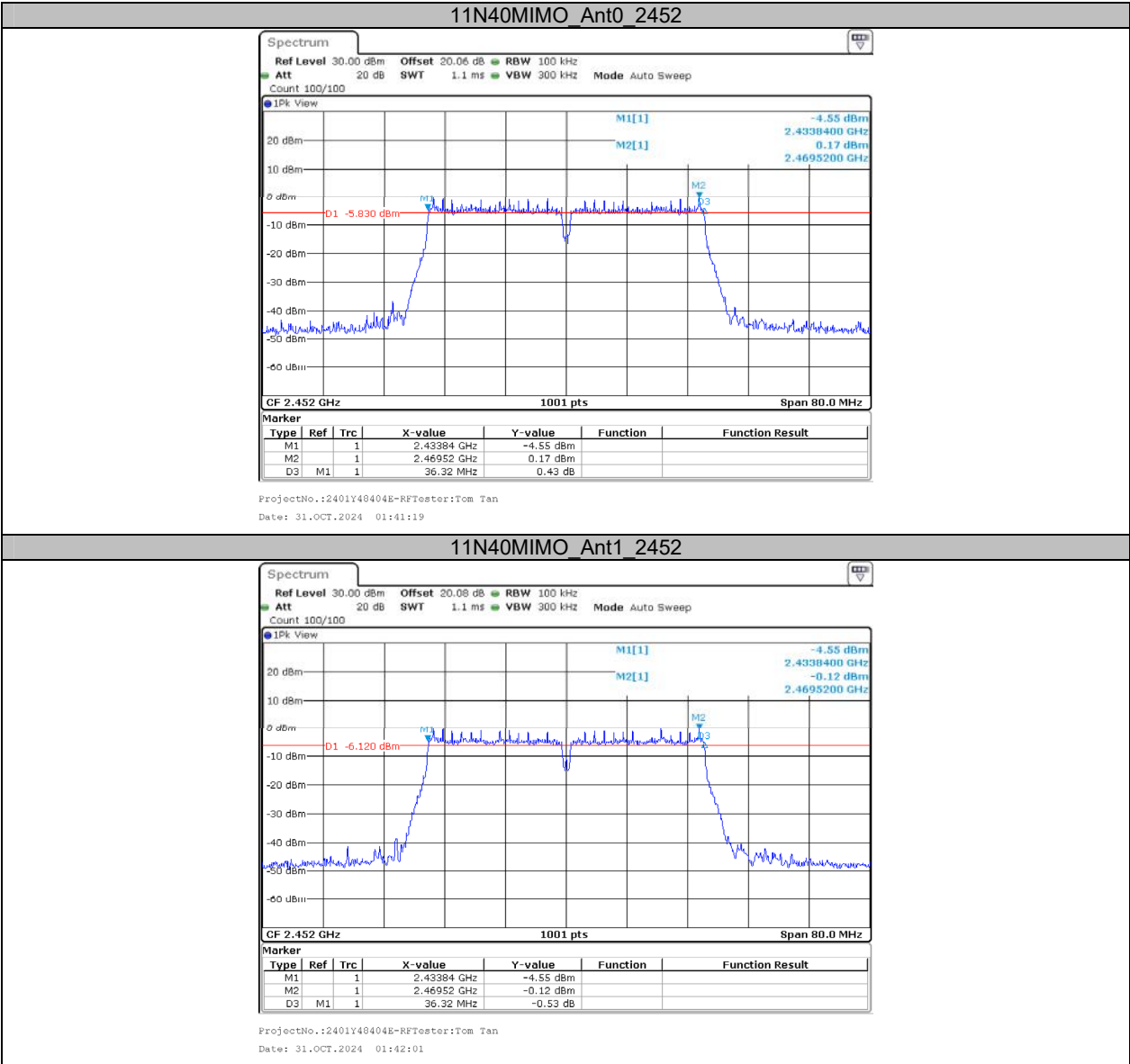


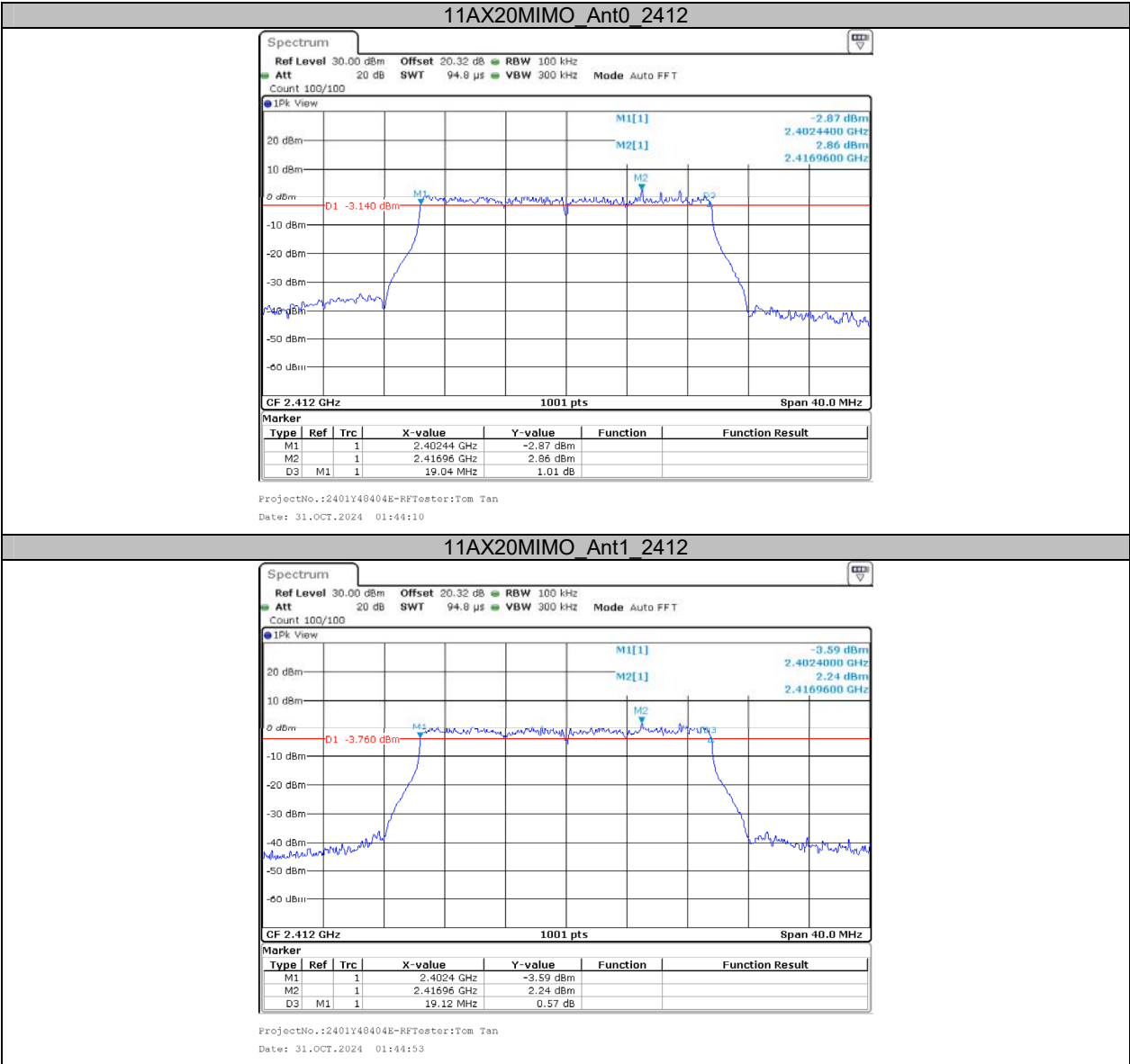


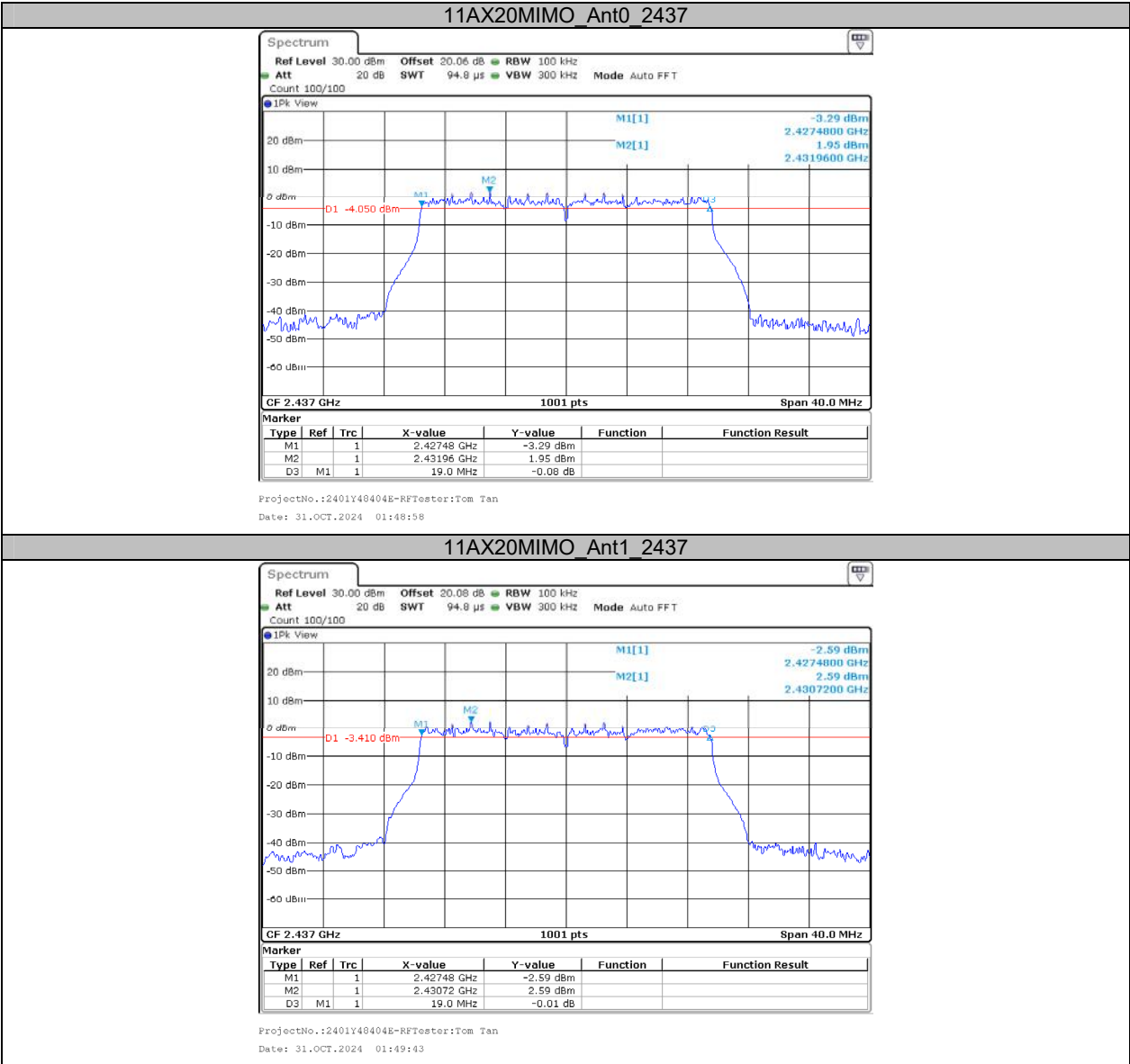


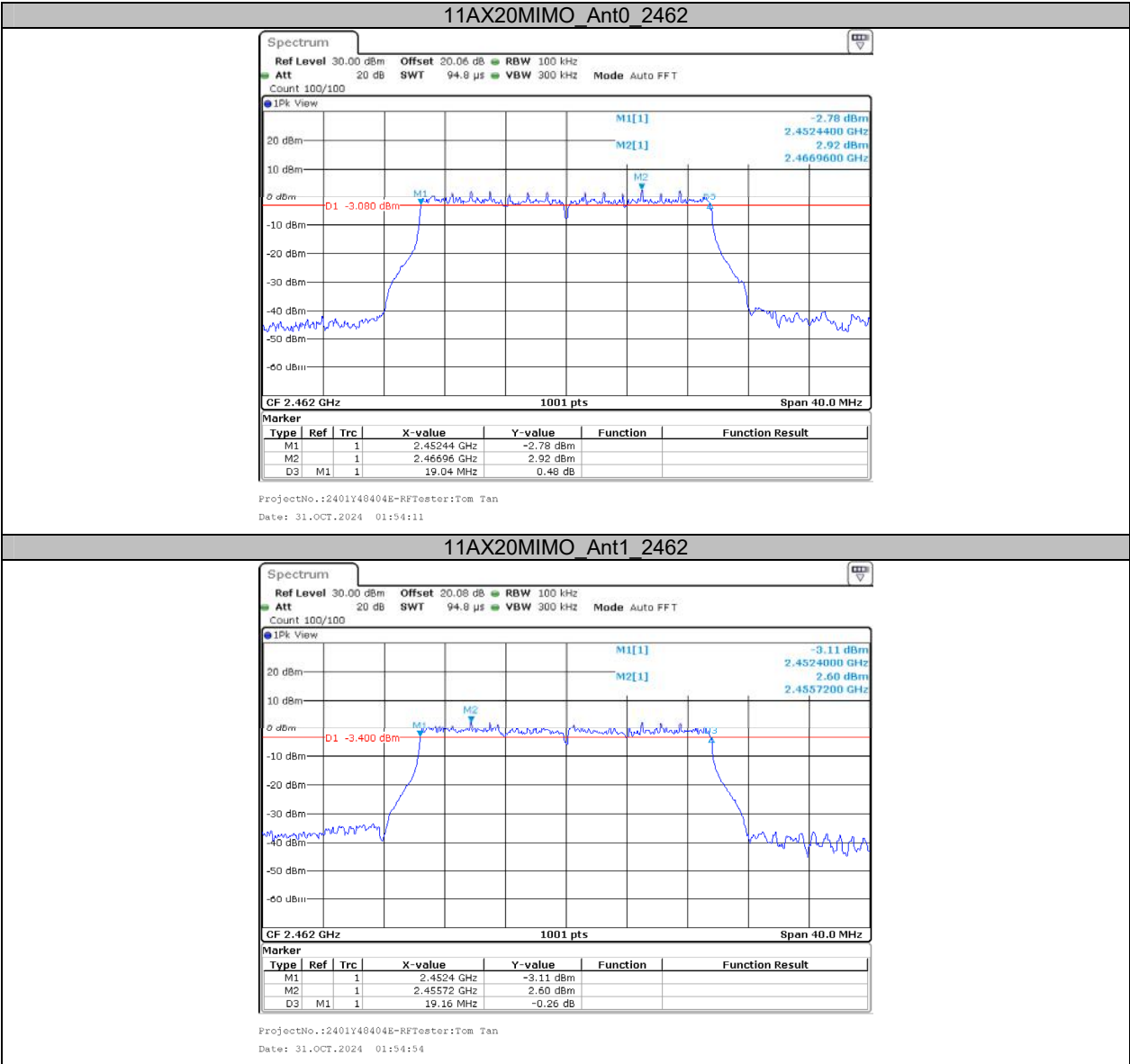


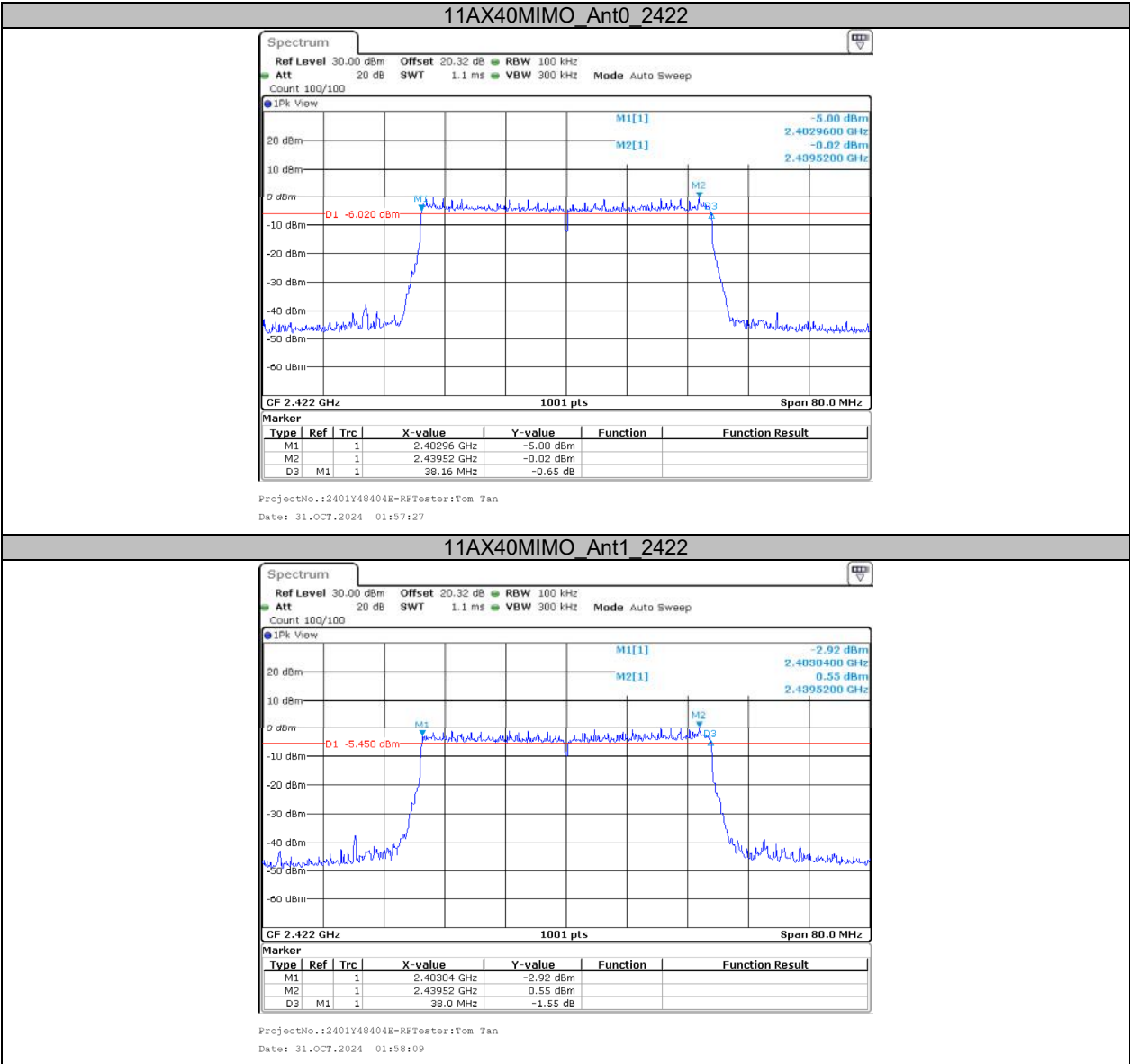


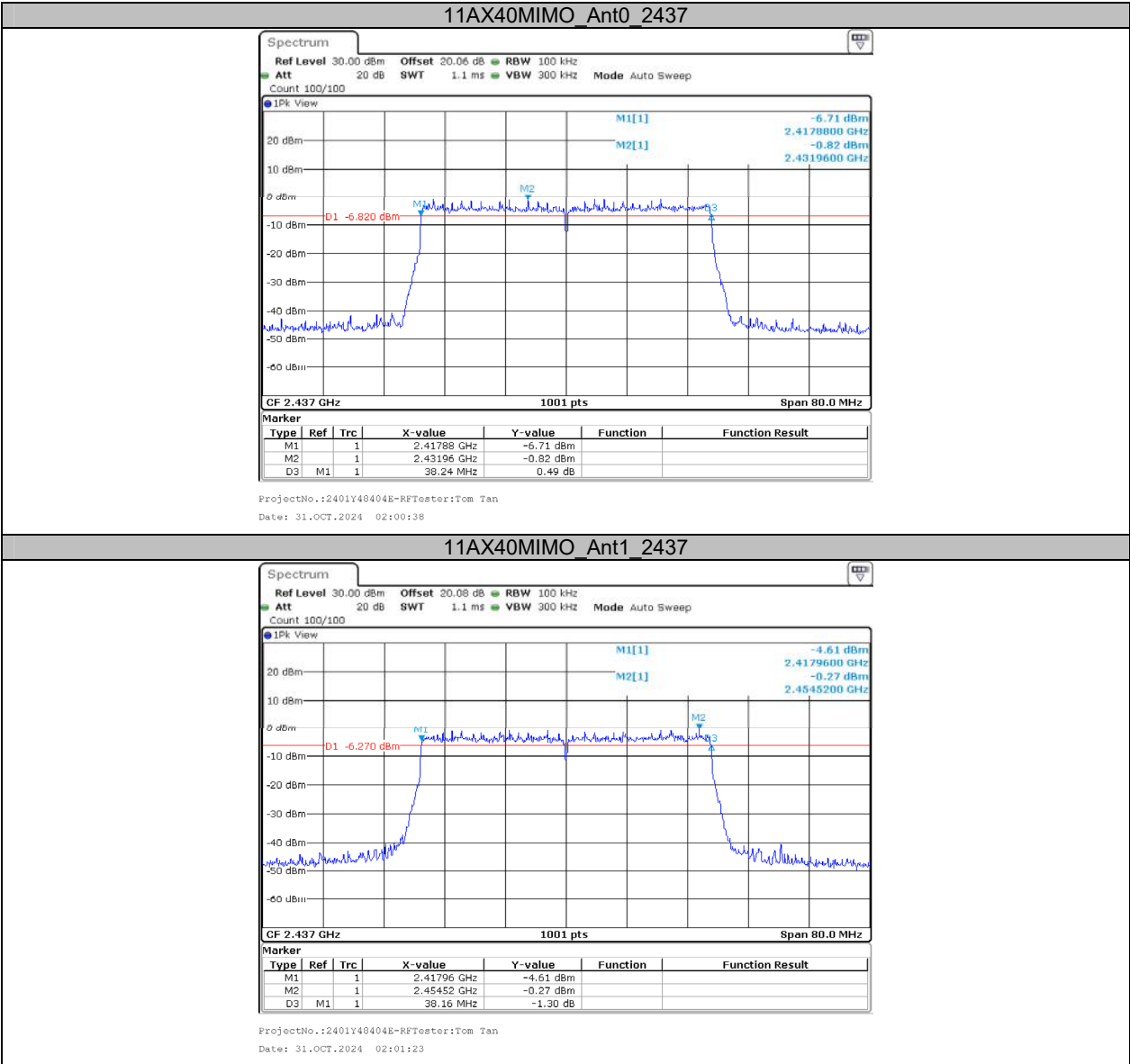


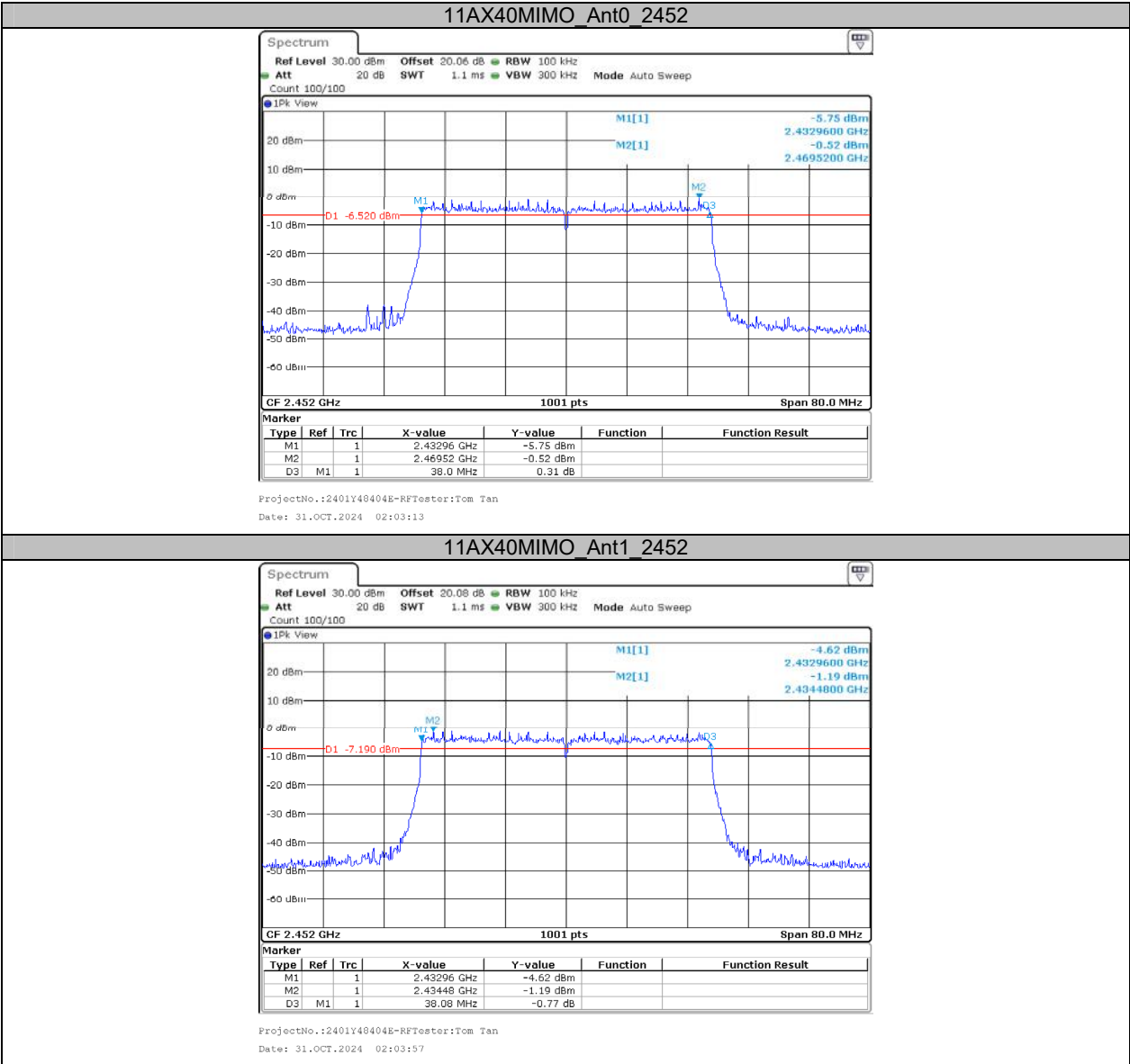








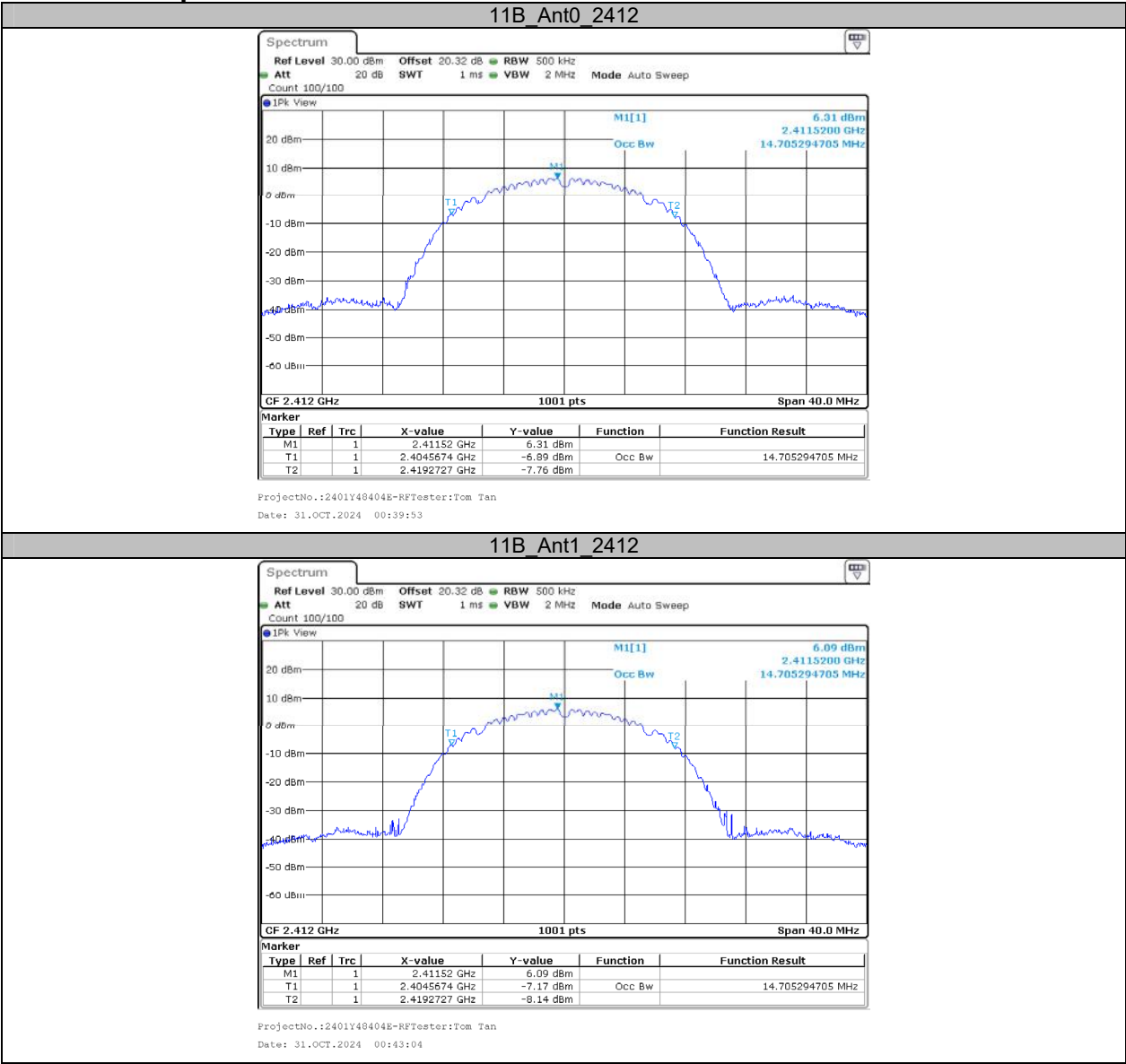


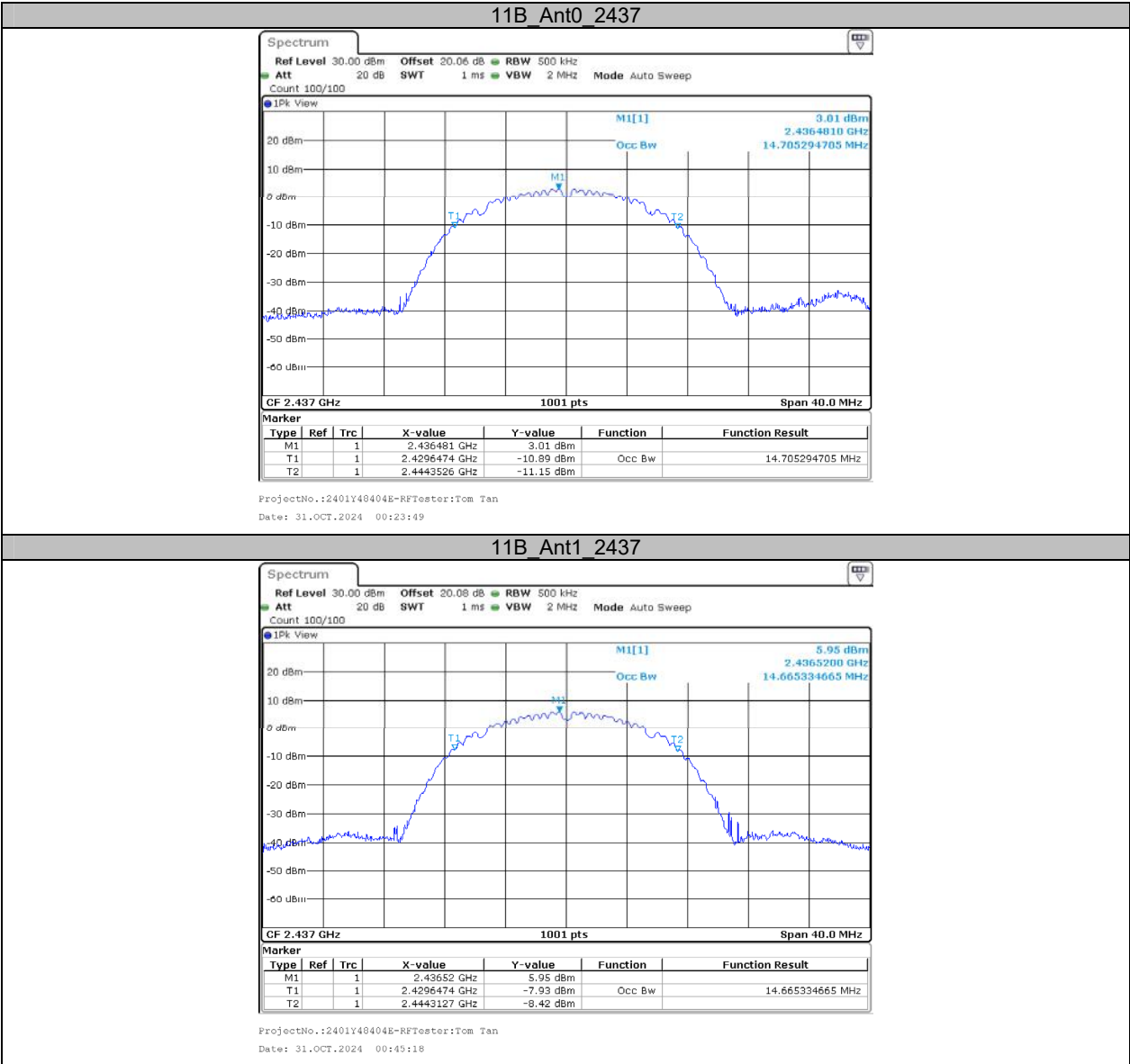


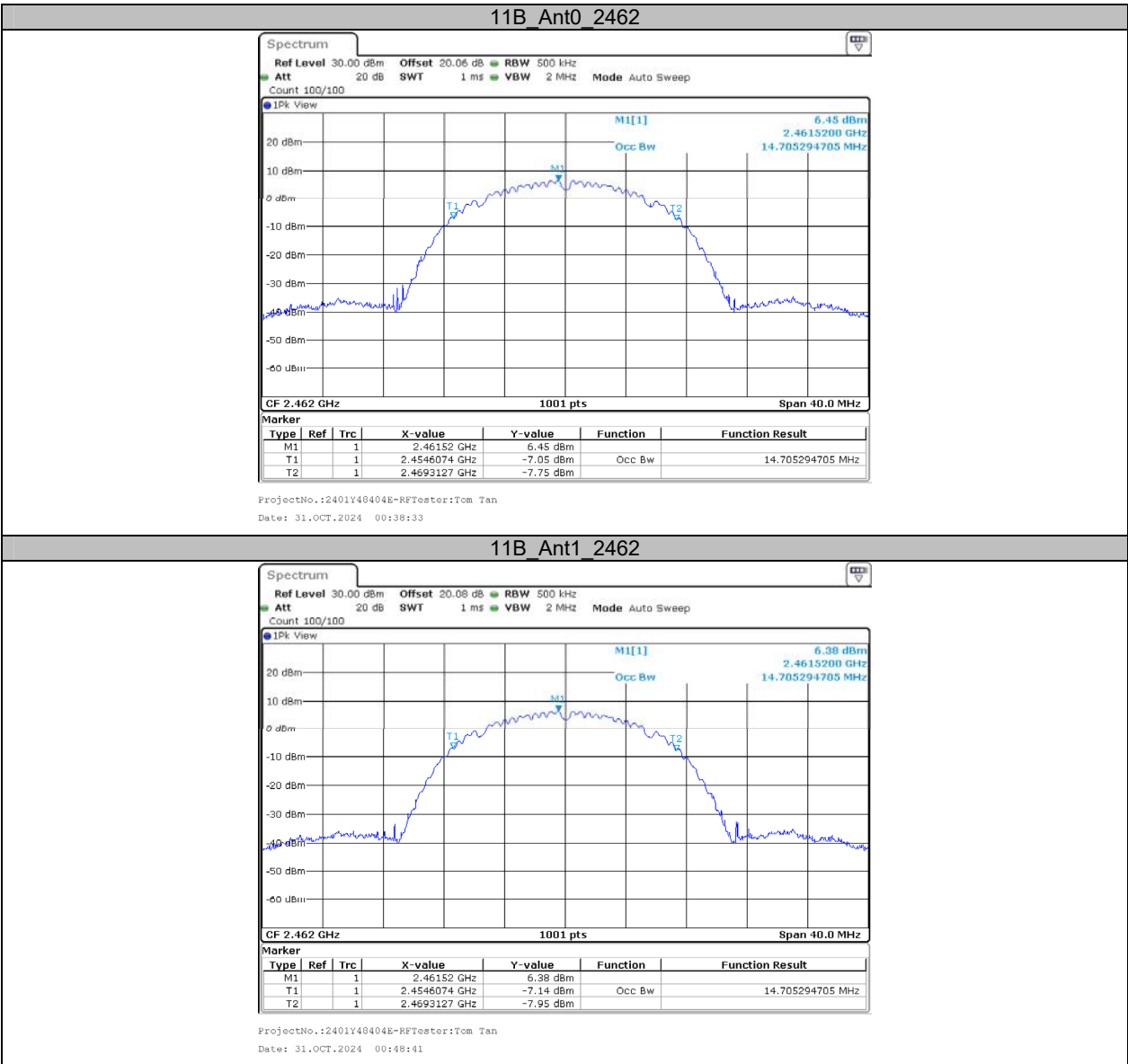
Appendix B: Occupied Channel Bandwidth**Test Result**

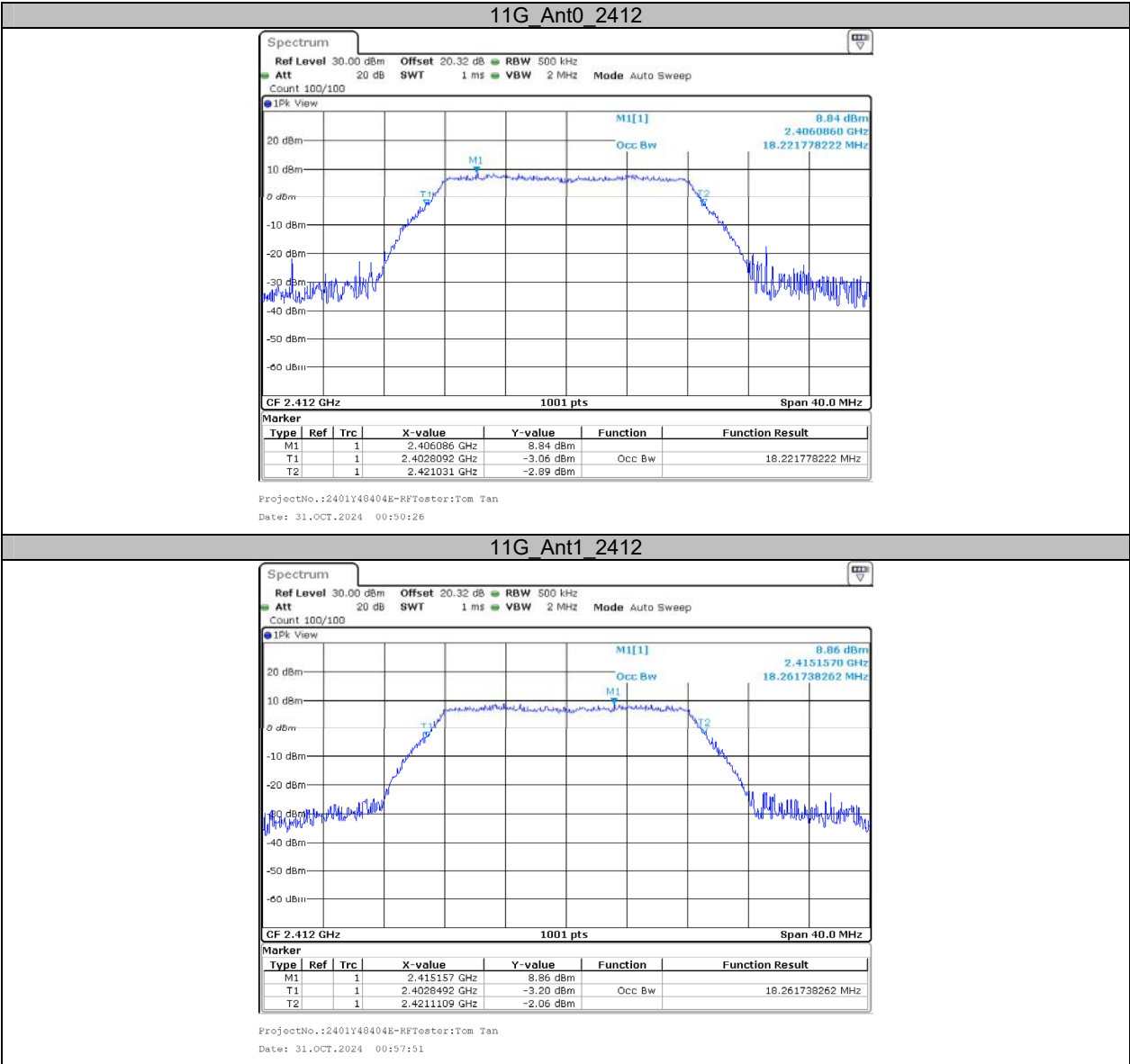
Test Mode	Antenna	Channel Frequency [MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant0	2412	14.705	2404.5674	2419.2727	---	---
	Ant1	2412	14.705	2404.5674	2419.2727	---	---
	Ant0	2437	14.705	2429.6474	2444.3526	---	---
	Ant1	2437	14.665	2429.6474	2444.3127	---	---
	Ant0	2462	14.705	2454.6074	2469.3127	---	---
	Ant1	2462	14.705	2454.6074	2469.3127	---	---
11G	Ant0	2412	18.222	2402.8092	2421.0310	---	---
	Ant1	2412	18.262	2402.8492	2421.1109	---	---
	Ant0	2437	18.222	2427.8891	2446.1109	---	---
	Ant1	2437	18.182	2427.8891	2446.0709	---	---
	Ant0	2462	18.262	2452.8492	2471.1109	---	---
	Ant1	2462	18.222	2452.8092	2471.0310	---	---
11N20MIMO	Ant0	2412	18.581	2402.6893	2421.2707	---	---
	Ant1	2412	18.941	2402.5694	2421.5105	---	---
	Ant0	2437	18.541	2427.7293	2446.2707	---	---
	Ant1	2437	18.941	2427.5295	2446.4705	---	---
	Ant0	2462	18.621	2452.6893	2471.3107	---	---
	Ant1	2462	18.901	2452.5295	2471.4306	---	---
11N40MIMO	Ant0	2422	37.083	2403.4585	2440.5415	---	---
	Ant1	2422	37.323	2403.3786	2440.7013	---	---
	Ant0	2437	37.083	2418.4585	2455.5415	---	---
	Ant1	2437	37.403	2418.2987	2455.7013	---	---
	Ant0	2452	37.083	2433.4585	2470.5415	---	---
	Ant1	2452	37.243	2433.3786	2470.6214	---	---
11AX20MIMO	Ant0	2412	19.540	2402.2098	2421.7502	---	---
	Ant1	2412	19.620	2402.1698	2421.7902	---	---
	Ant0	2437	19.461	2427.2897	2446.7502	---	---
	Ant1	2437	19.500	2427.2498	2446.7502	---	---
	Ant0	2462	19.500	2452.2498	2471.7502	---	---
	Ant1	2462	19.620	2452.1299	2471.7502	---	---
11AX40MIMO	Ant0	2422	38.362	2402.8192	2441.1808	---	---
	Ant1	2422	38.362	2402.8991	2441.2607	---	---
	Ant0	2437	38.282	2417.8991	2456.1808	---	---
	Ant1	2437	38.362	2417.8192	2456.1808	---	---
	Ant0	2452	38.442	2432.8192	2471.2607	---	---
	Ant1	2452	38.362	2432.8192	2471.1808	---	---

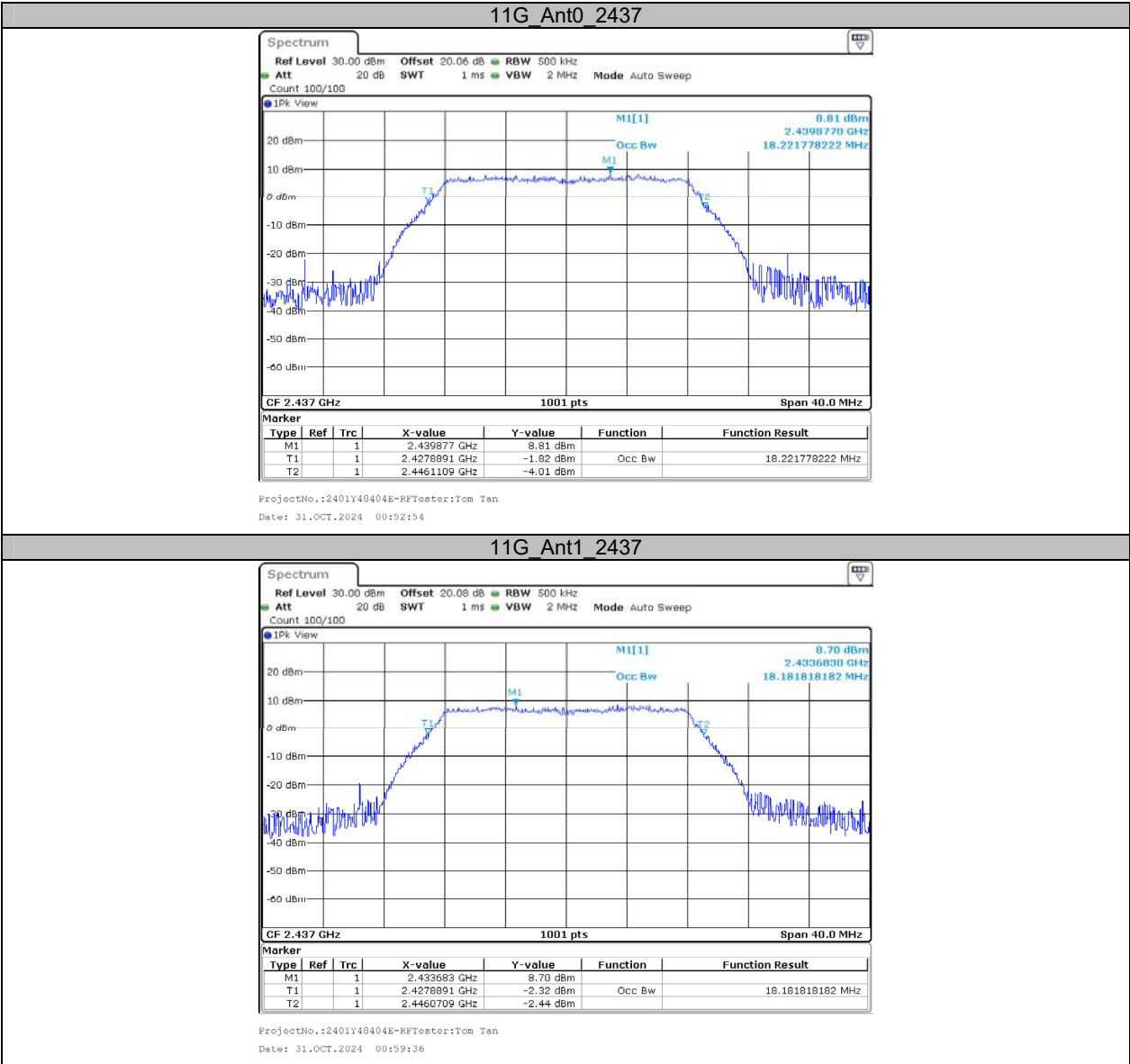
Test Graphs

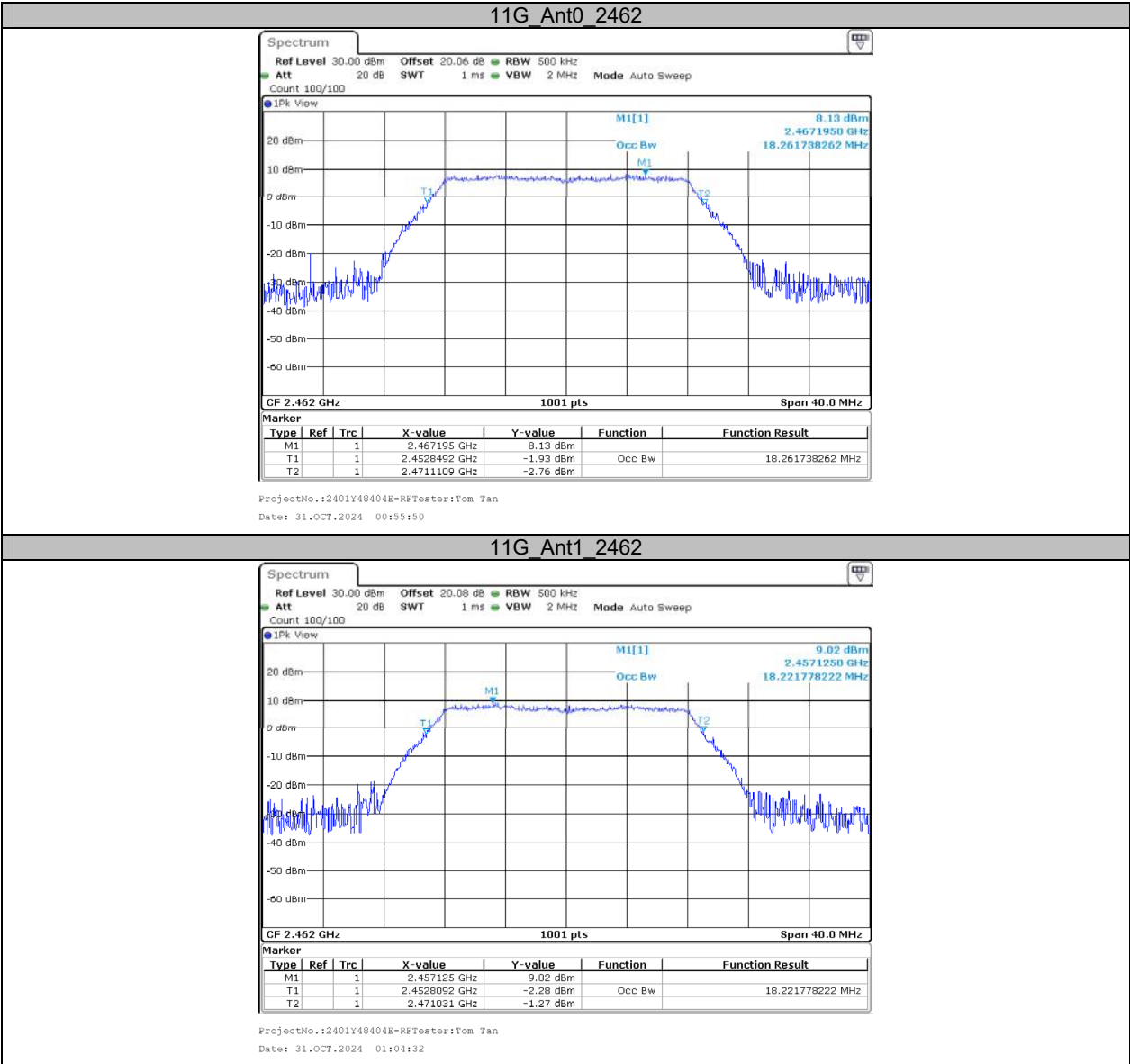


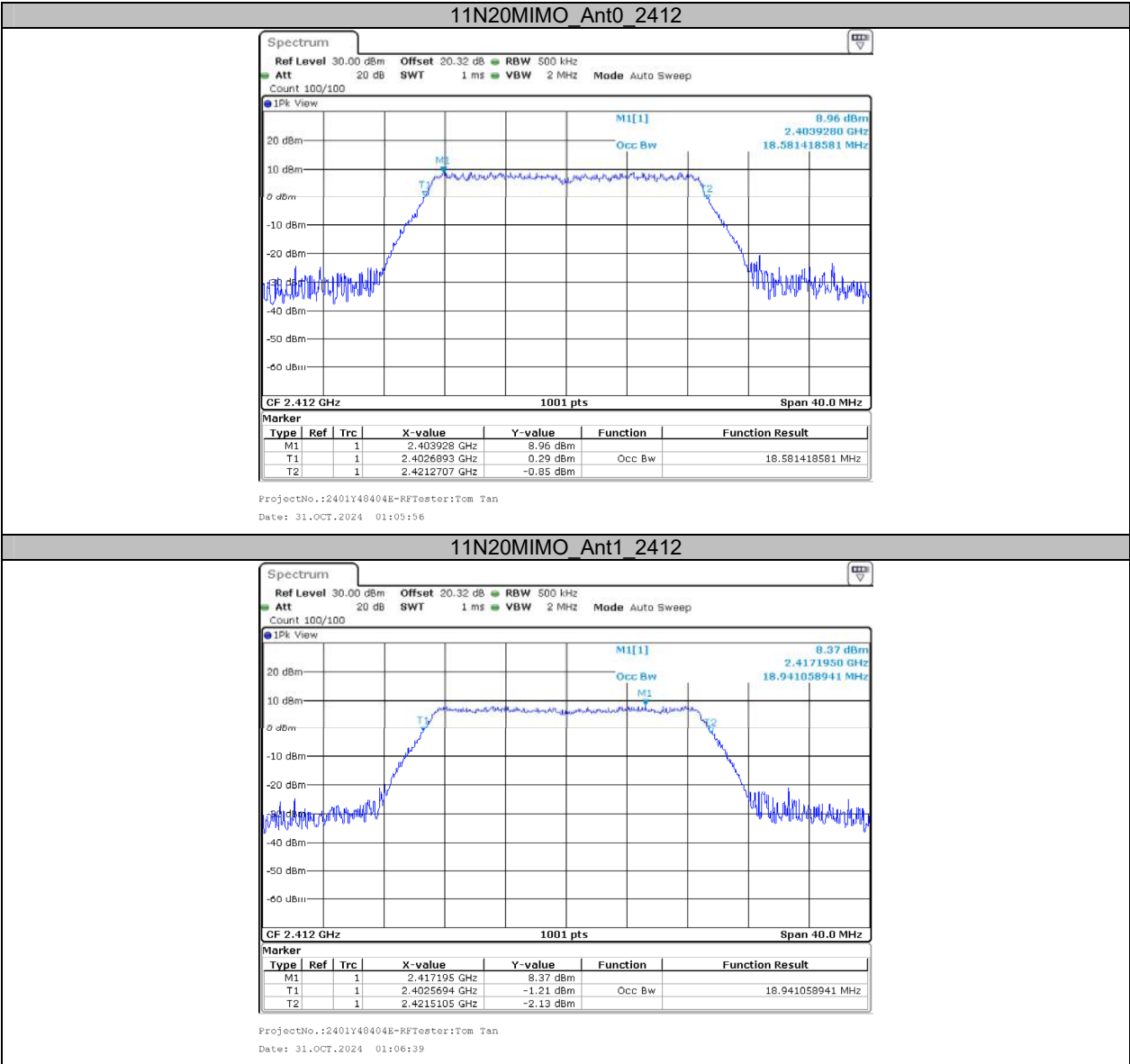


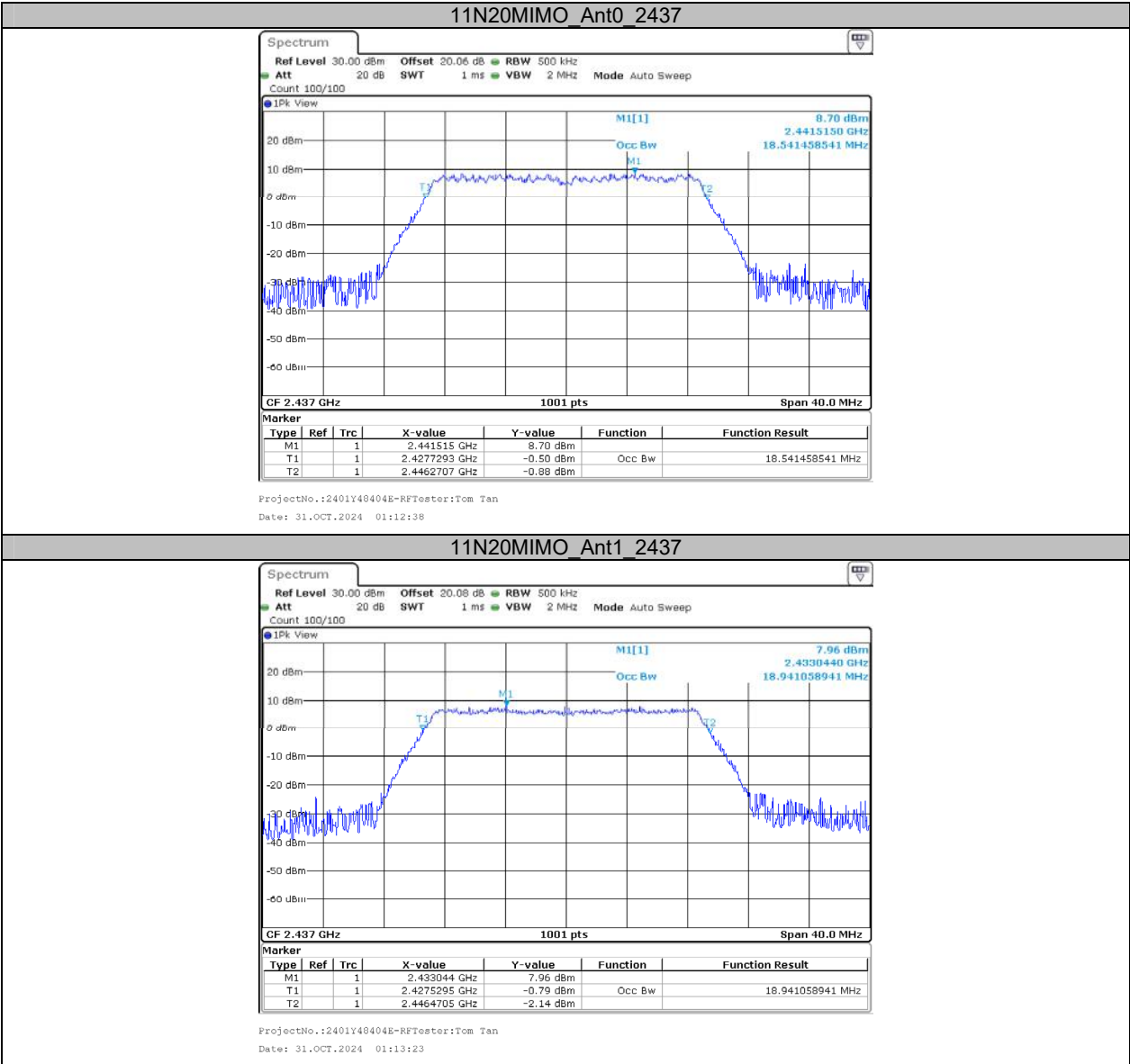


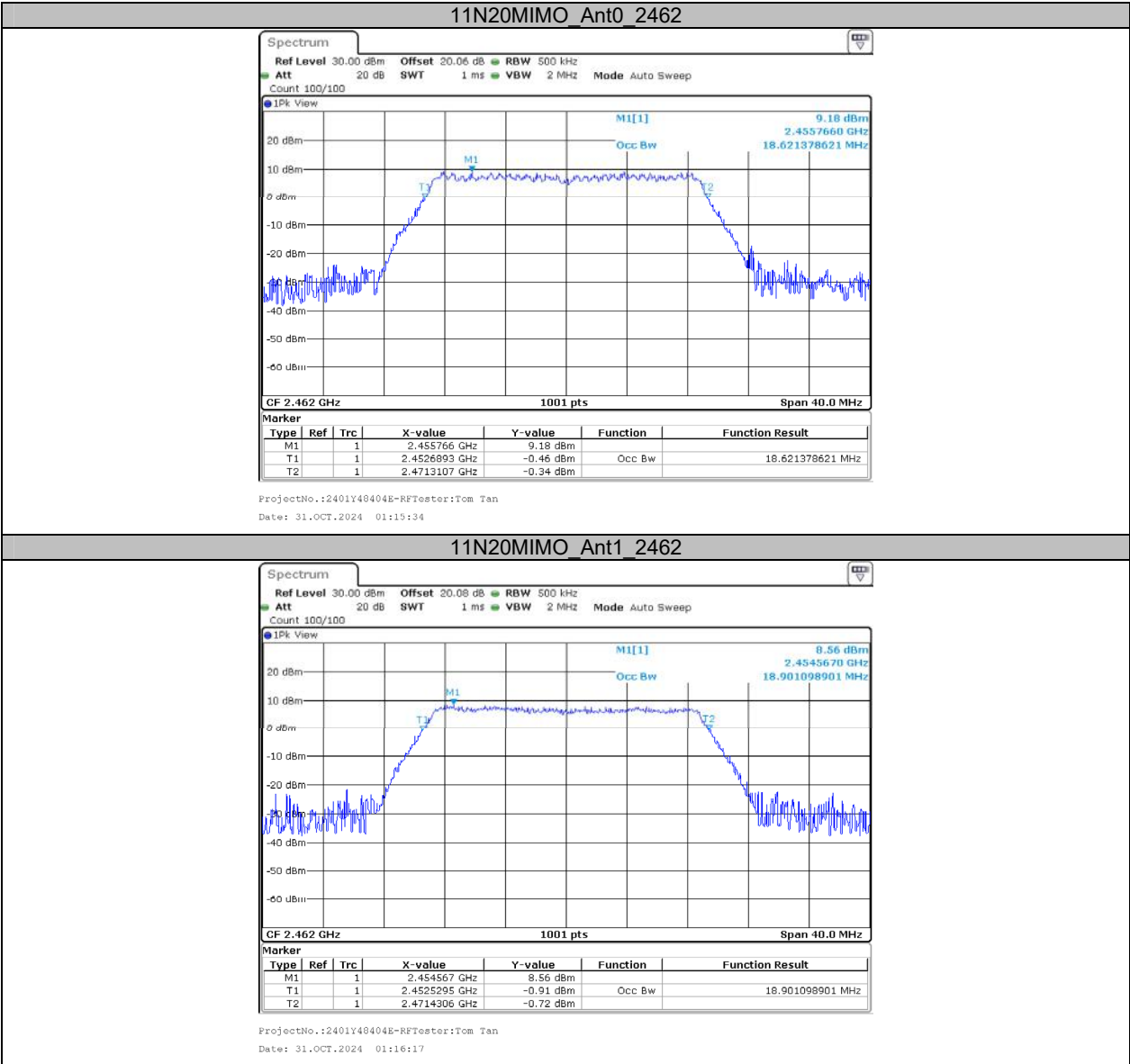


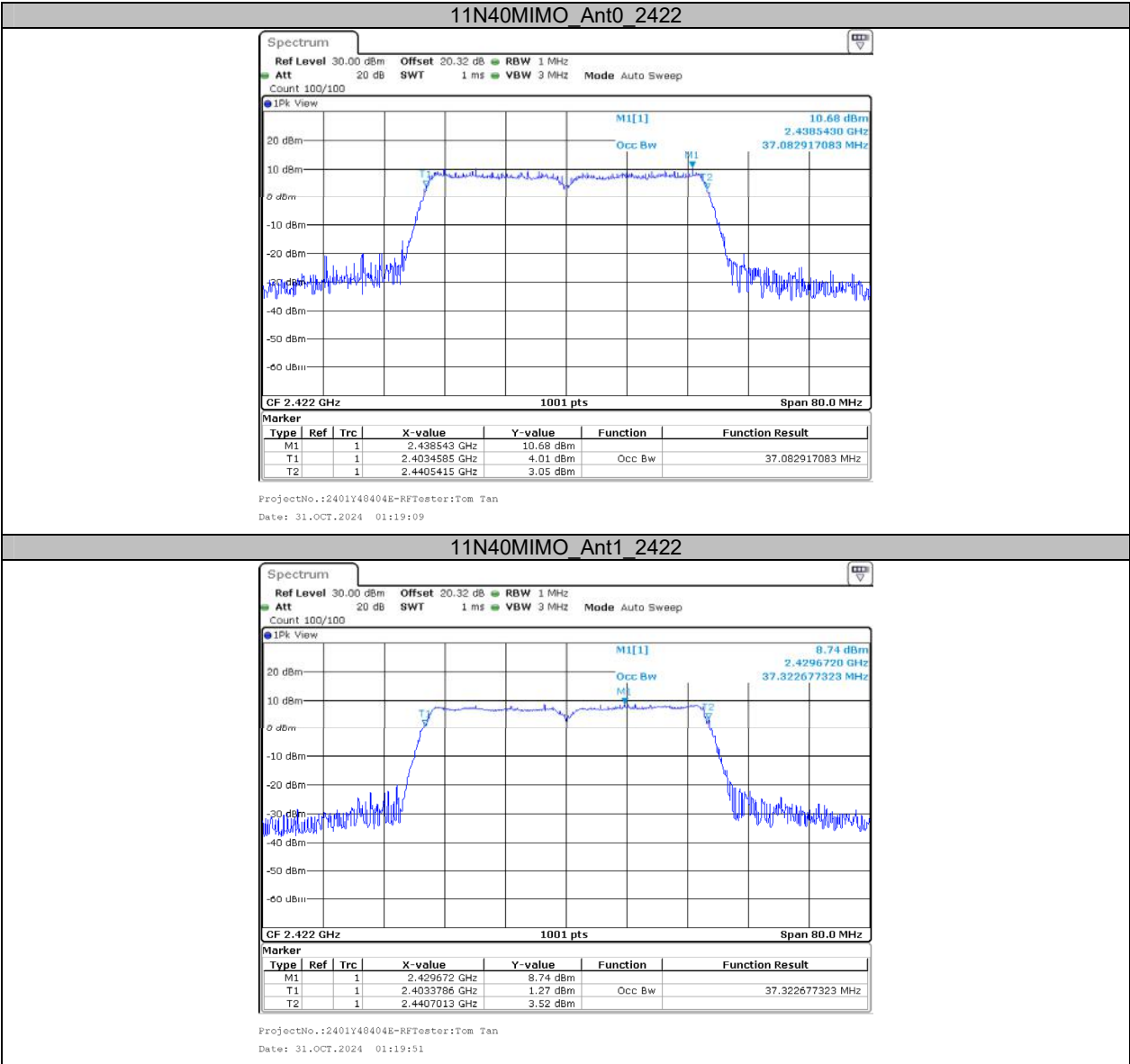


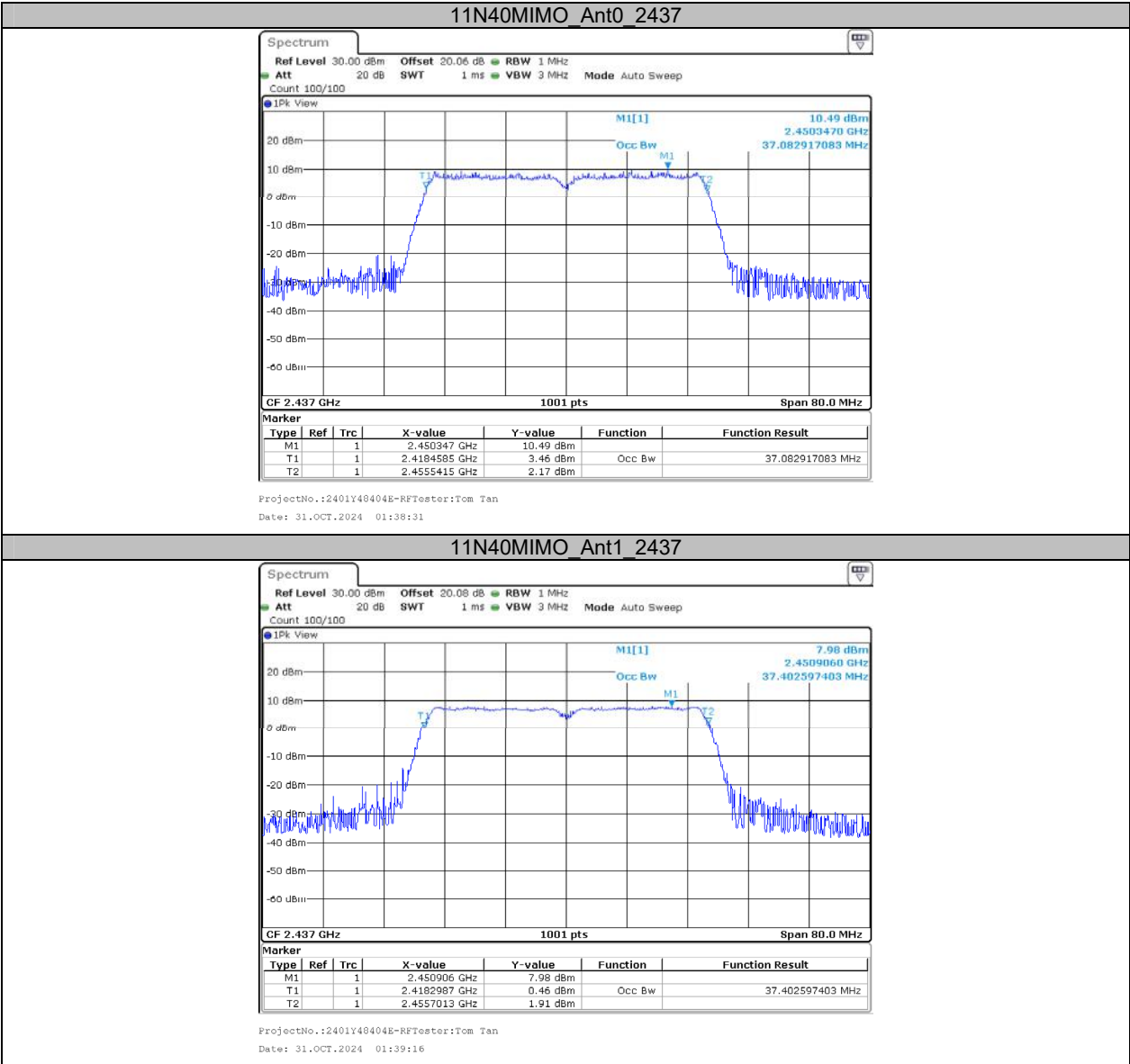


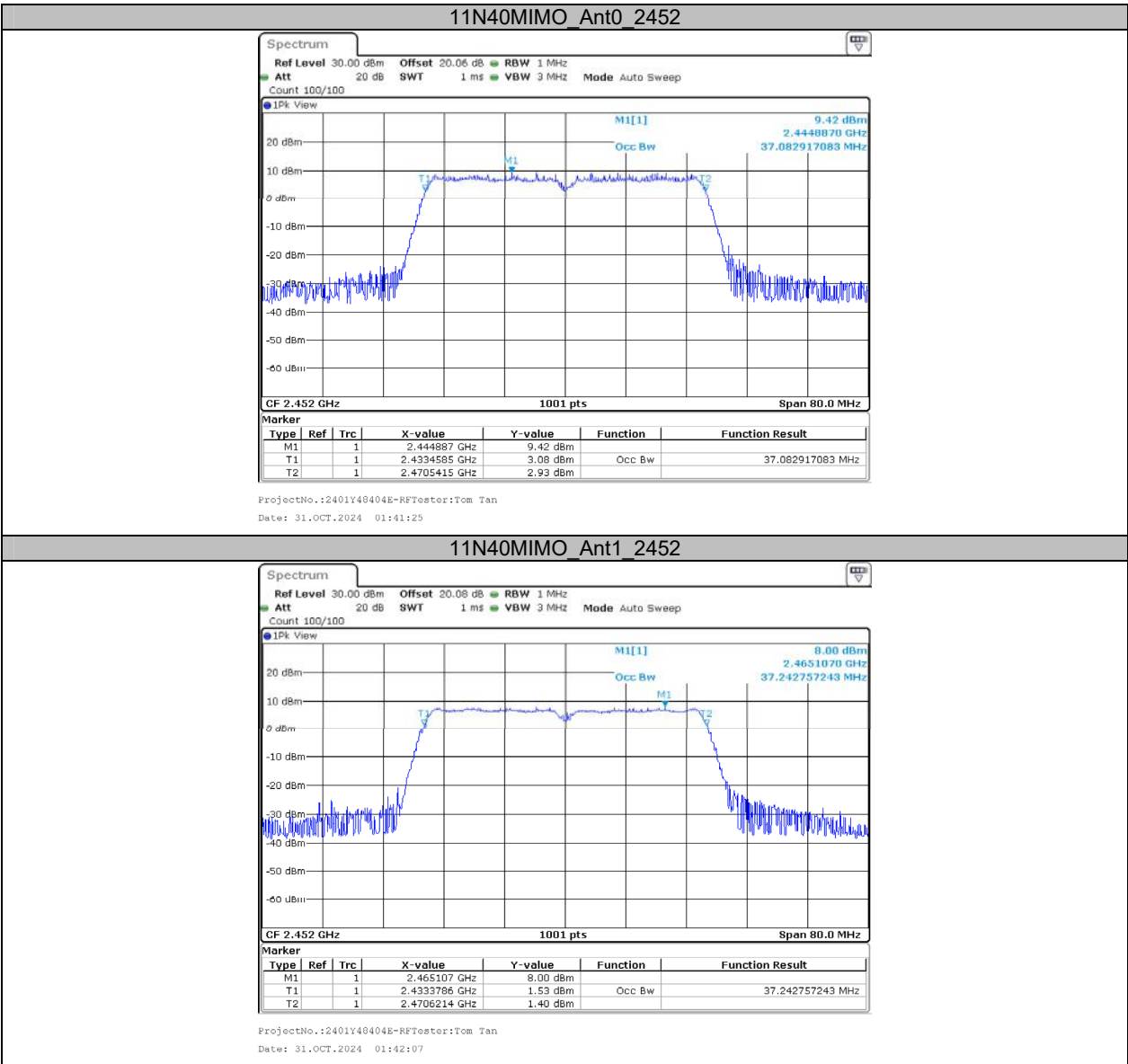


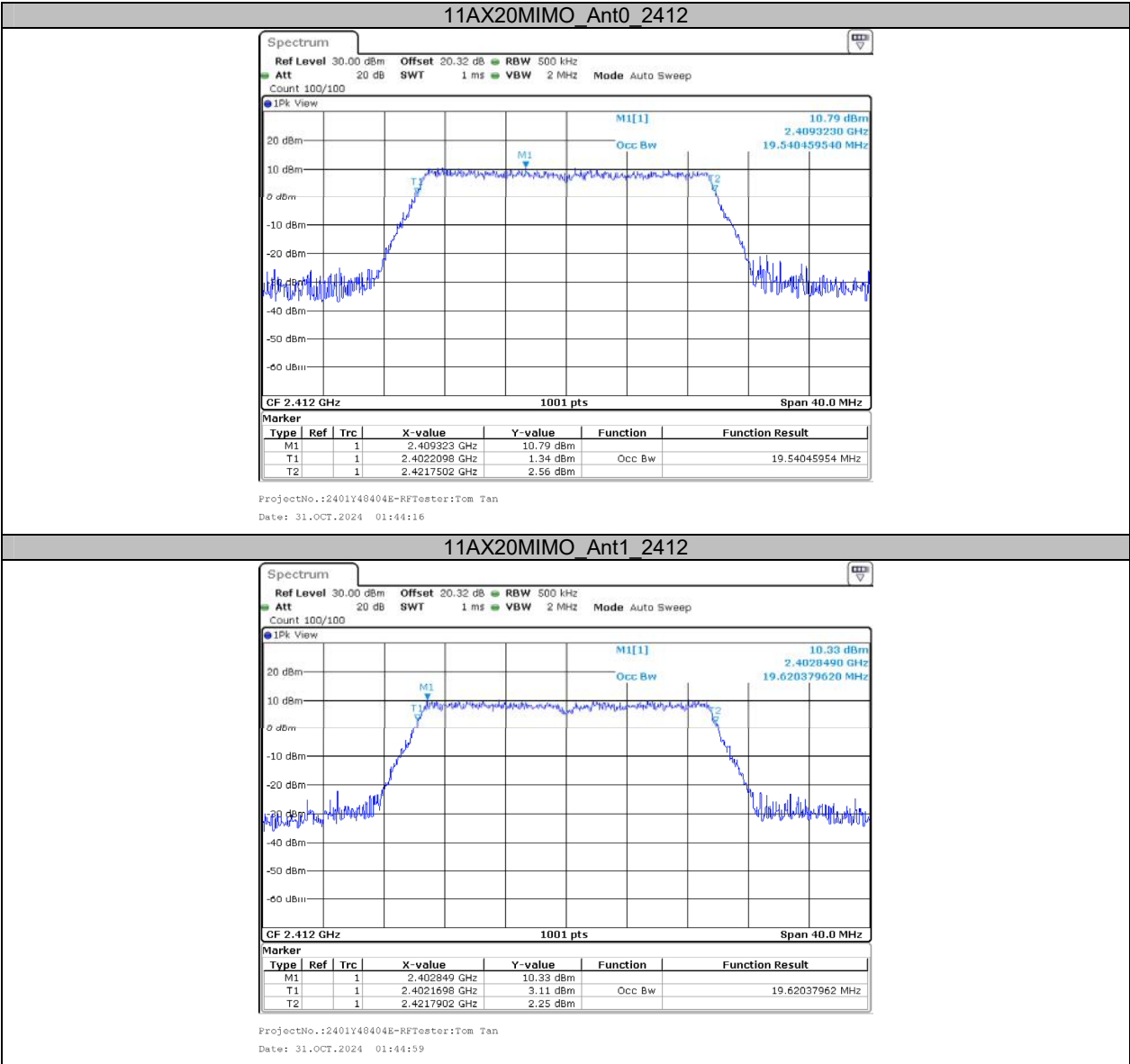


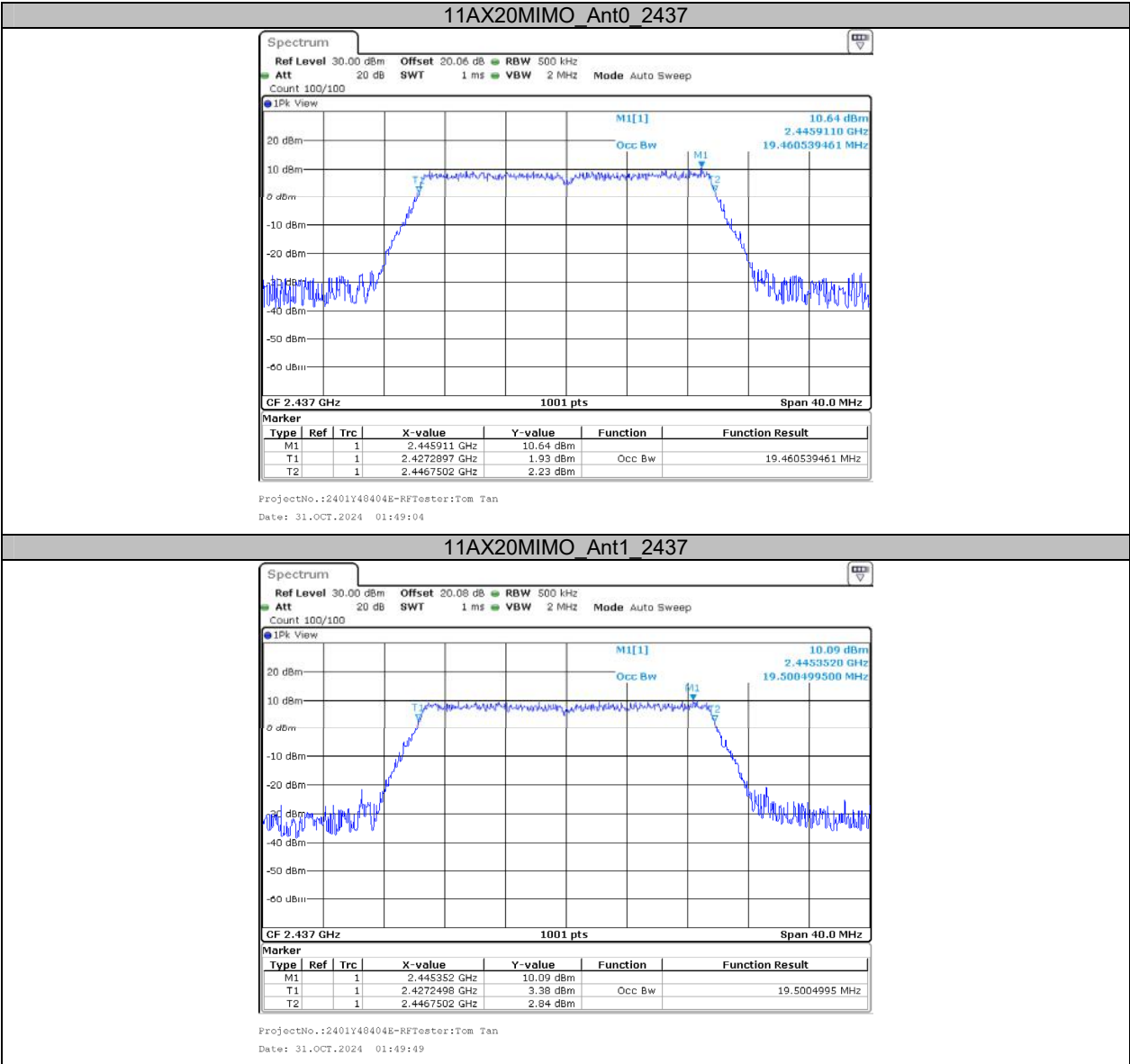


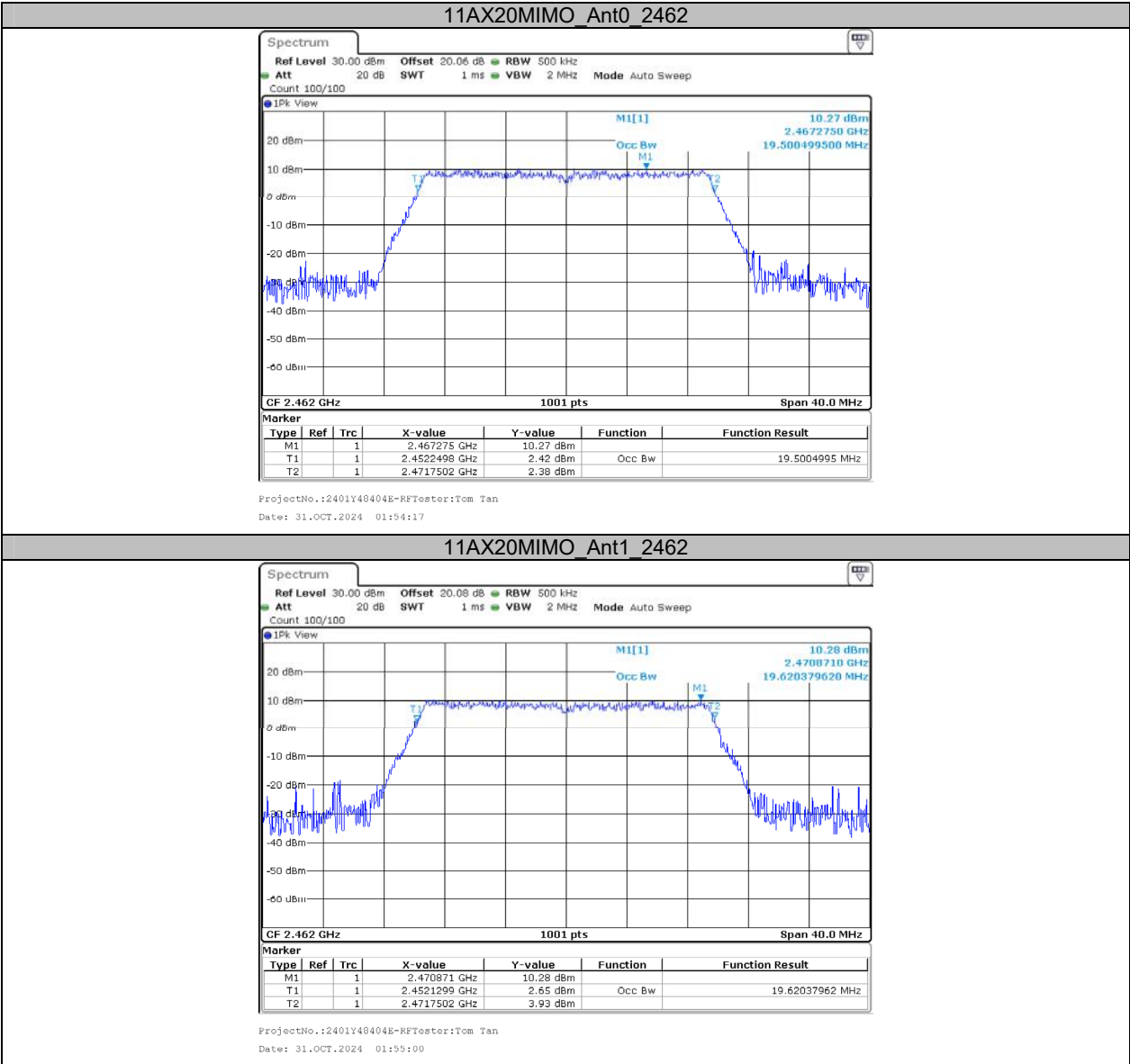


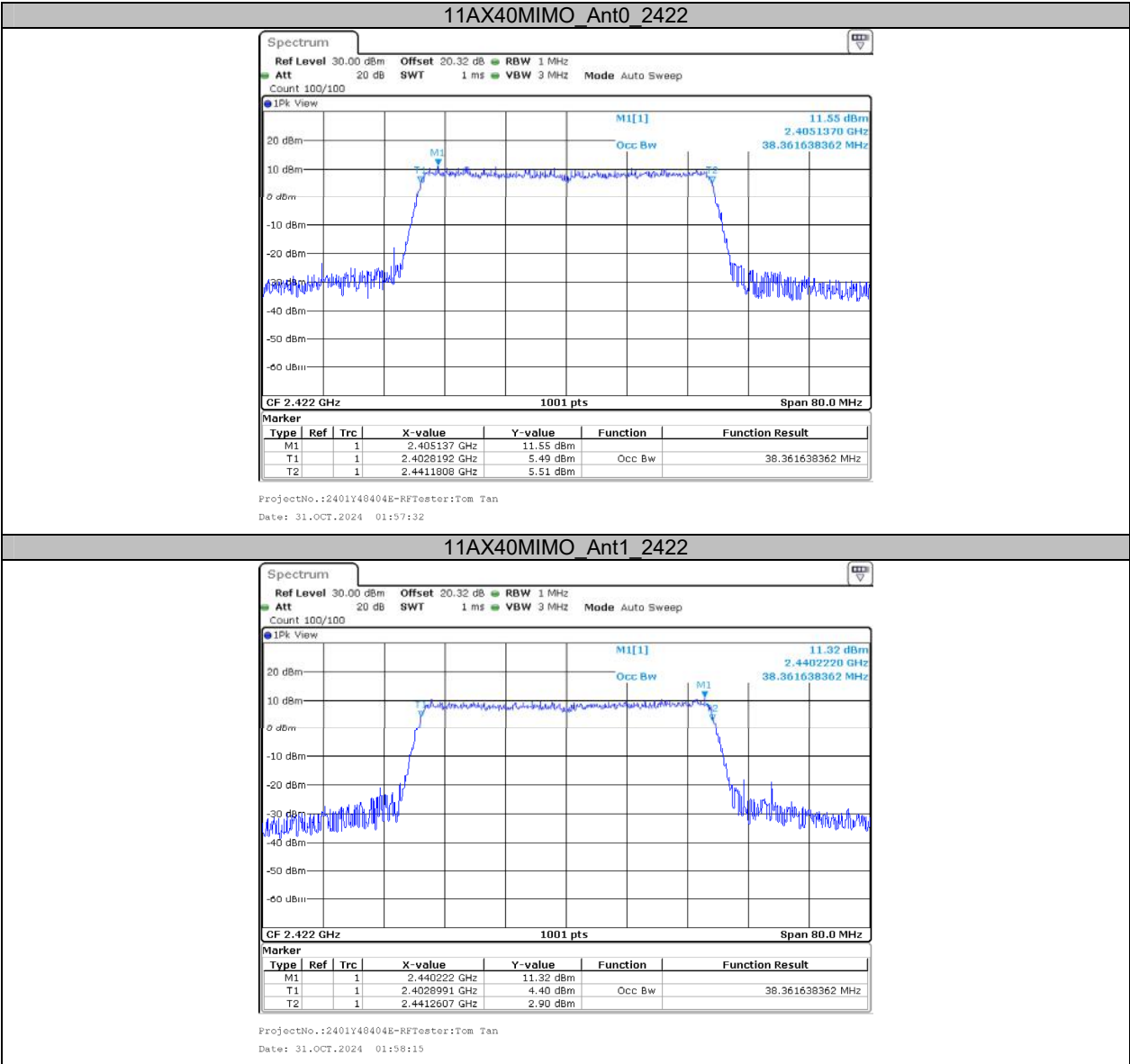


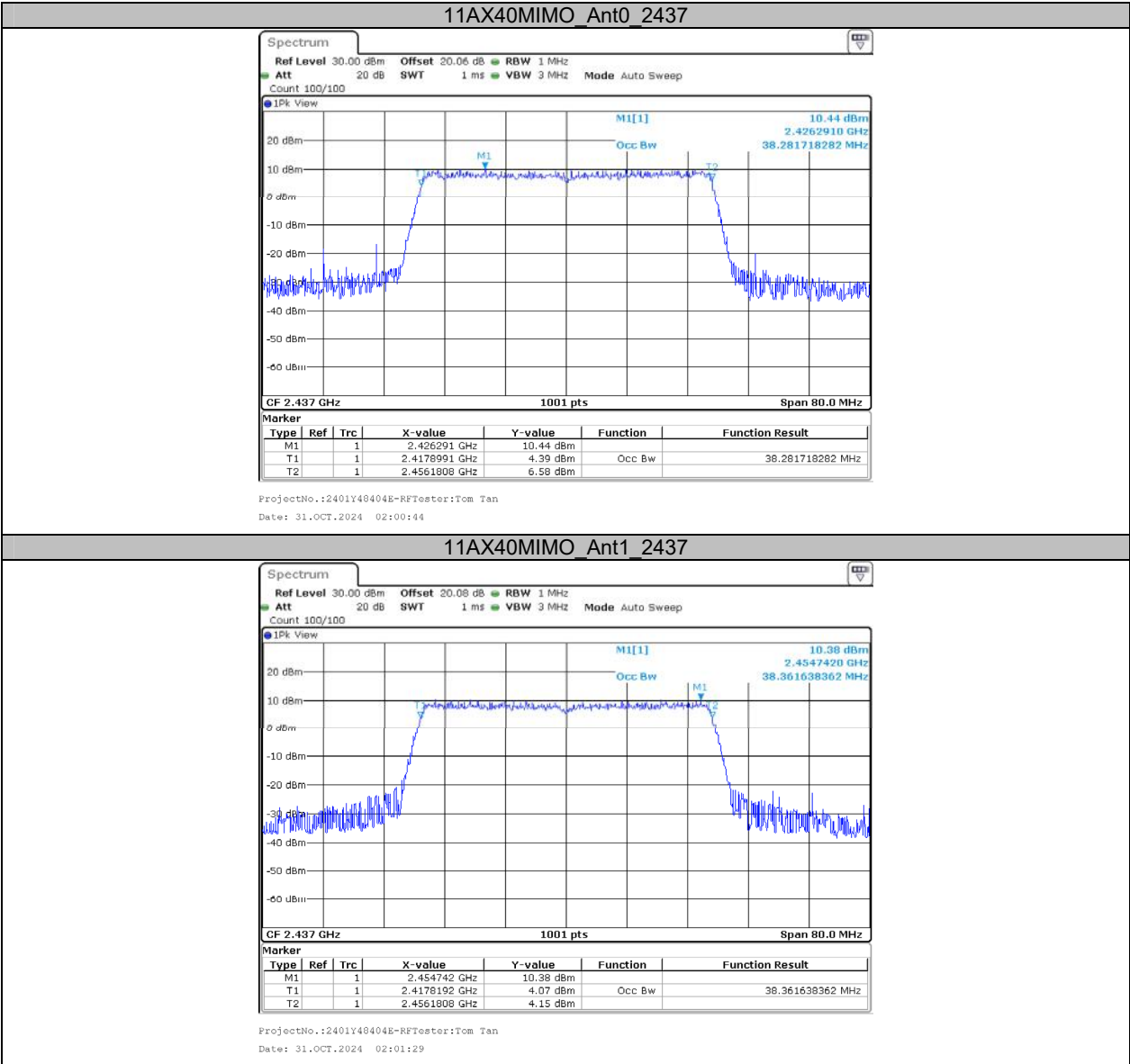


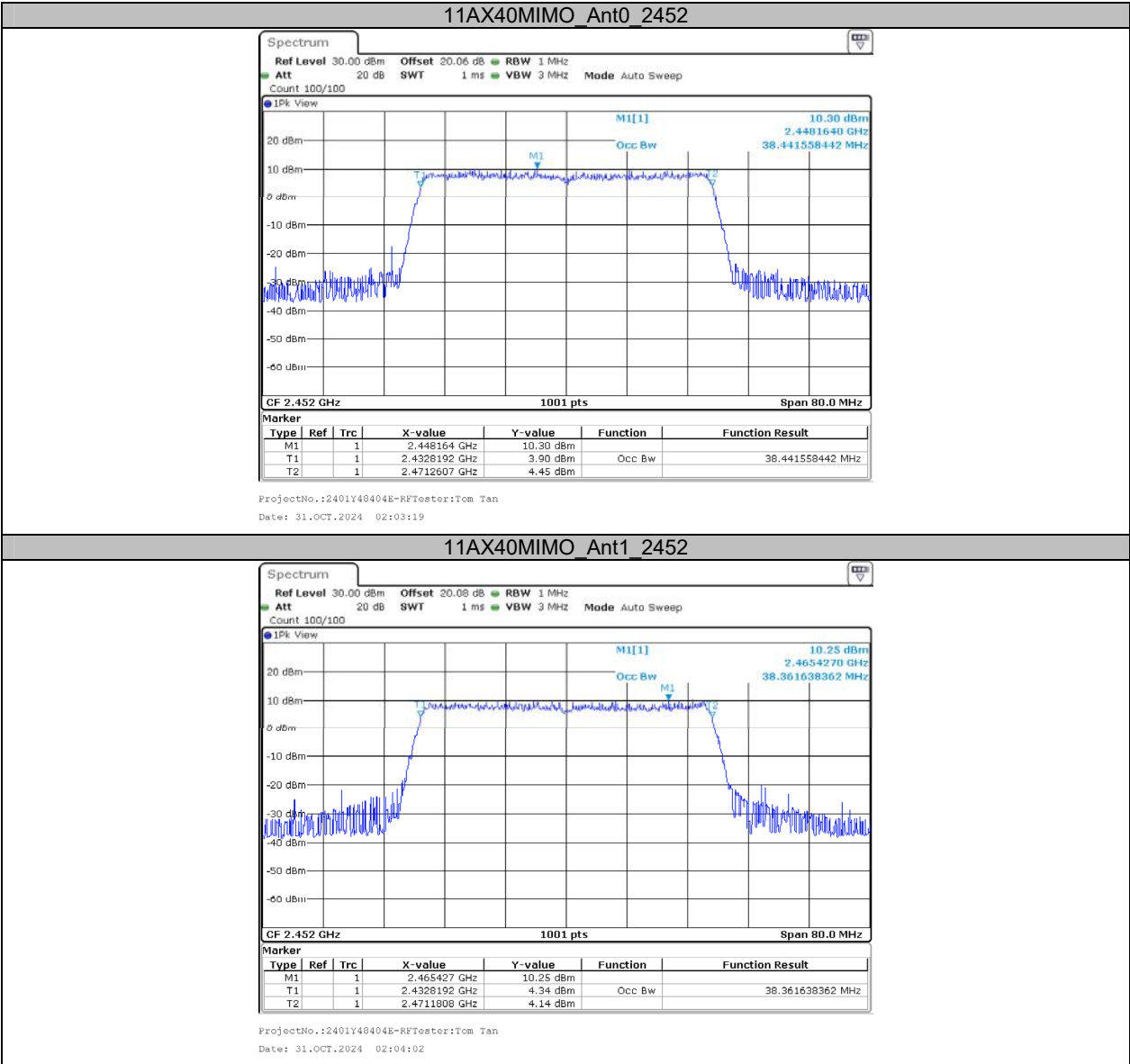












Appendix C: Maximum conducted output power**Test Result**

Test Mode	Antenna	Frequency [MHz]	Average Power [dBm]	Peak Power [dBm]	Conducted Limit[dBm]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11B	Ant0	2412	14.50	17.42	≤30.00	21.77	≤36.00	PASS
	Ant1	2412	14.01	17.16	≤30.00	22.92	≤36.00	PASS
	Ant0	2437	14.25	17.02	≤30.00	21.37	≤36.00	PASS
	Ant1	2437	14.01	17.03	≤30.00	22.79	≤36.00	PASS
	Ant0	2462	14.77	17.57	≤30.00	21.92	≤36.00	PASS
	Ant1	2462	14.37	17.45	≤30.00	23.21	≤36.00	PASS
11G	Ant0	2412	15.46	22.13	≤30.00	26.48	≤36.00	PASS
	Ant1	2412	16.12	22.34	≤30.00	28.10	≤36.00	PASS
	Ant0	2437	15.19	21.66	≤30.00	26.01	≤36.00	PASS
	Ant1	2437	15.85	21.98	≤30.00	27.74	≤36.00	PASS
	Ant0	2462	15.52	22.04	≤30.00	26.39	≤36.00	PASS
	Ant1	2462	16.28	22.51	≤30.00	28.27	≤36.00	PASS
11N20MIMO	Ant0	2412	15.41	22.47	≤27.91	30.56	≤36.00	PASS
	Ant1	2412	15.96	22.23	≤27.91	30.32	≤36.00	PASS
	total	2412	18.70	25.36	≤27.91	33.45	≤36.00	PASS
	Ant0	2437	15.15	21.90	≤27.91	29.99	≤36.00	PASS
	Ant1	2437	15.74	21.82	≤27.91	29.91	≤36.00	PASS
	total	2437	18.47	24.87	≤27.91	32.96	≤36.00	PASS
	Ant0	2462	15.49	22.29	≤27.91	30.38	≤36.00	PASS
	Ant1	2462	16.19	22.35	≤27.91	30.44	≤36.00	PASS
	total	2462	18.86	25.33	≤27.91	33.42	≤36.00	PASS
11N40MIMO	Ant0	2422	15.28	22.11	≤27.91	30.20	≤36.00	PASS
	Ant1	2422	15.81	21.95	≤27.91	30.04	≤36.00	PASS
	total	2422	18.56	25.04	≤27.91	33.13	≤36.00	PASS
	Ant0	2437	15.23	21.92	≤27.91	30.01	≤36.00	PASS
	Ant1	2437	15.84	21.84	≤27.91	29.93	≤36.00	PASS
	total	2437	18.56	24.89	≤27.91	32.98	≤36.00	PASS
	Ant0	2452	14.92	21.58	≤27.91	29.67	≤36.00	PASS
	Ant1	2452	15.43	21.43	≤27.91	29.52	≤36.00	PASS
	total	2452	18.19	24.52	≤27.91	32.61	≤36.00	PASS
11AX20MIMO	Ant0	2412	15.42	23.08	≤27.91	31.17	≤36.00	PASS
	Ant1	2412	15.99	23.07	≤27.91	31.16	≤36.00	PASS
	total	2412	18.72	26.09	≤27.91	34.18	≤36.00	PASS
	Ant0	2437	15.18	22.57	≤27.91	30.66	≤36.00	PASS
	Ant1	2437	15.79	22.68	≤27.91	30.77	≤36.00	PASS
	total	2437	18.51	25.64	≤27.91	33.73	≤36.00	PASS

	Ant0	2462	15.56	22.90	≤27.91	30.99	≤36.00	PASS
	Ant1	2462	16.31	23.20	≤27.91	31.29	≤36.00	PASS
	total	2462	18.96	26.06	≤27.91	34.15	≤36.00	PASS
11AX40 MIMO	Ant0	2422	15.13	22.73	≤27.91	30.82	≤36.00	PASS
	Ant1	2422	15.69	22.73	≤27.91	30.82	≤36.00	PASS
	total	2422	18.43	25.74	≤27.91	33.83	≤36.00	PASS
	Ant0	2437	15.13	22.56	≤27.91	30.65	≤36.00	PASS
	Ant1	2437	15.73	22.59	≤27.91	30.68	≤36.00	PASS
	total	2437	18.45	25.59	≤27.91	33.68	≤36.00	PASS
	Ant0	2452	14.82	22.19	≤27.91	30.28	≤36.00	PASS
	Ant1	2452	15.29	22.20	≤27.91	30.29	≤36.00	PASS
	total	2452	18.07	25.21	≤27.91	33.30	≤36.00	PASS

Note: For 802.11n/ax modes, the device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01:

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the k_{th} antenna is being fed by spatial stream j , or zero if it is not;

G_k is the gain in dBi of the k_{th} antenna.

ANT0 Gain:	4.35	dBi	Directional gain:	8.09	dBi
ANT1 Gain:	5.76	dBi			

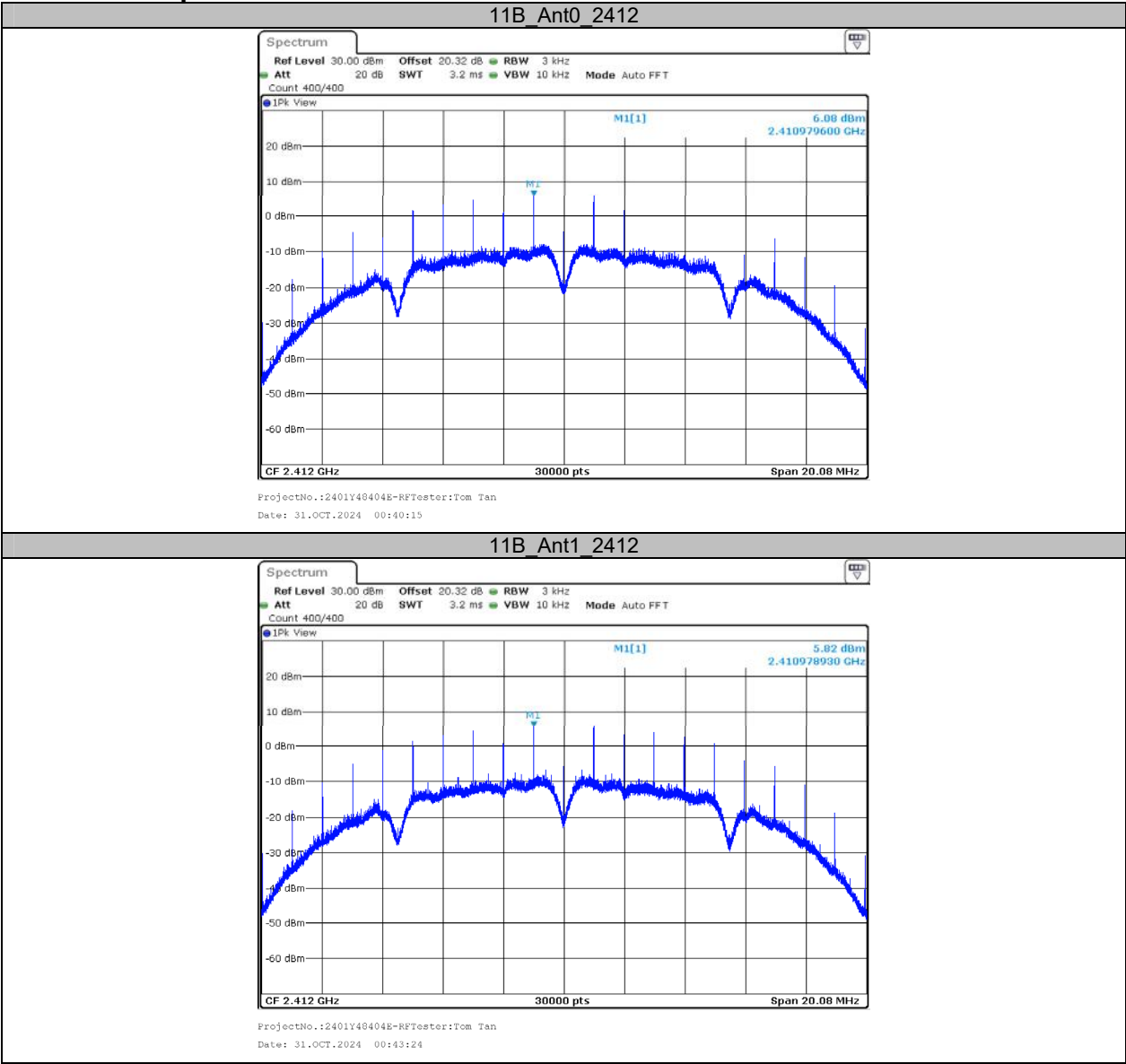
Appendix D: Maximum power spectral density**Test Result**

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant0	2412	6.08	≤8.00	PASS
	Ant1	2412	5.82	≤8.00	PASS
	Ant0	2437	5.66	≤8.00	PASS
	Ant1	2437	5.64	≤8.00	PASS
	Ant0	2462	4.63	≤8.00	PASS
	Ant1	2462	4.30	≤8.00	PASS
11G	Ant0	2412	-9.45	≤8.00	PASS
	Ant1	2412	-9.35	≤8.00	PASS
	Ant0	2437	-9.52	≤8.00	PASS
	Ant1	2437	-9.74	≤8.00	PASS
	Ant0	2462	-10.23	≤8.00	PASS
	Ant1	2462	-8.23	≤8.00	PASS
11N20MIMO	Ant0	2412	-8.58	≤5.91	PASS
	Ant1	2412	-9.35	≤5.91	PASS
	total	2412	-5.94	≤5.91	PASS
	Ant0	2437	-10.06	≤5.91	PASS
	Ant1	2437	-10.29	≤5.91	PASS
	total	2437	-7.16	≤5.91	PASS
	Ant0	2462	-9.20	≤5.91	PASS
	Ant1	2462	-9.15	≤5.91	PASS
11N40MIMO	total	2462	-6.16	≤5.91	PASS
	Ant0	2422	-12.20	≤5.91	PASS
	Ant1	2422	-12.30	≤5.91	PASS
	total	2422	-9.24	≤5.91	PASS
	Ant0	2437	-13.24	≤5.91	PASS
	Ant1	2437	-13.04	≤5.91	PASS
	total	2437	-10.13	≤5.91	PASS
	Ant0	2452	-13.02	≤5.91	PASS
11AX20MIMO	Ant1	2452	-13.20	≤5.91	PASS
	total	2452	-10.10	≤5.91	PASS
	Ant0	2412	-10.85	≤5.91	PASS
	Ant1	2412	-10.62	≤5.91	PASS
	total	2412	-7.72	≤5.91	PASS
	Ant0	2437	-11.18	≤5.91	PASS
	Ant1	2437	-10.28	≤5.91	PASS
	total	2437	-7.70	≤5.91	PASS
11AX40MIMO	Ant0	2462	-10.55	≤5.91	PASS
	Ant1	2462	-10.42	≤5.91	PASS
	total	2462	-7.47	≤5.91	PASS
	Ant0	2422	-13.33	≤5.91	PASS
	Ant1	2422	-13.79	≤5.91	PASS
	total	2422	-10.54	≤5.91	PASS
	Ant0	2437	-14.22	≤5.91	PASS
	Ant1	2437	-14.01	≤5.91	PASS
11AX20MIMO	total	2437	-11.10	≤5.91	PASS
	Ant0	2452	-13.26	≤5.91	PASS
	Ant1	2452	-14.33	≤5.91	PASS
	total	2452	-10.75	≤5.91	PASS

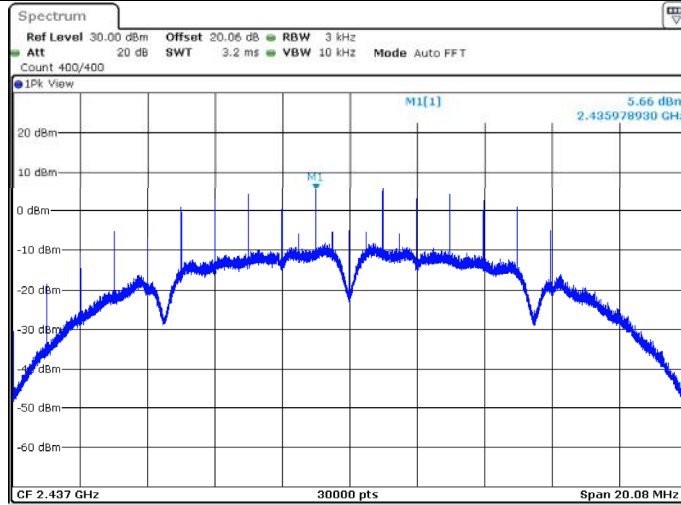
Note: For 802.11n/ax modes, the device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01:

G_k is the gain in dBi of the k_{th} antenna.

Test Graphs

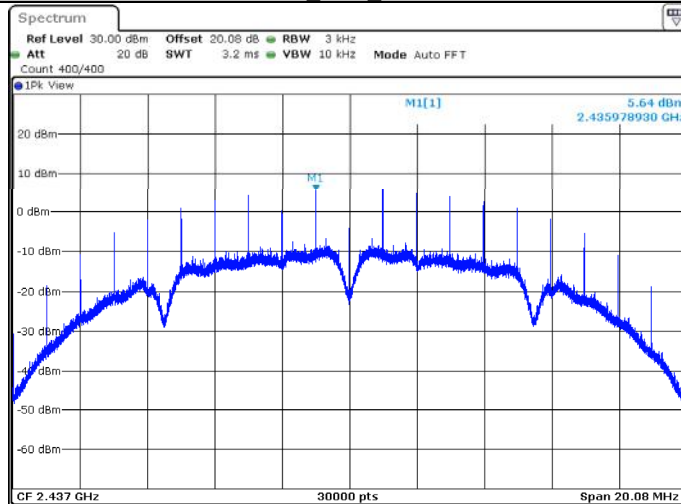


11B_Ant0_2437

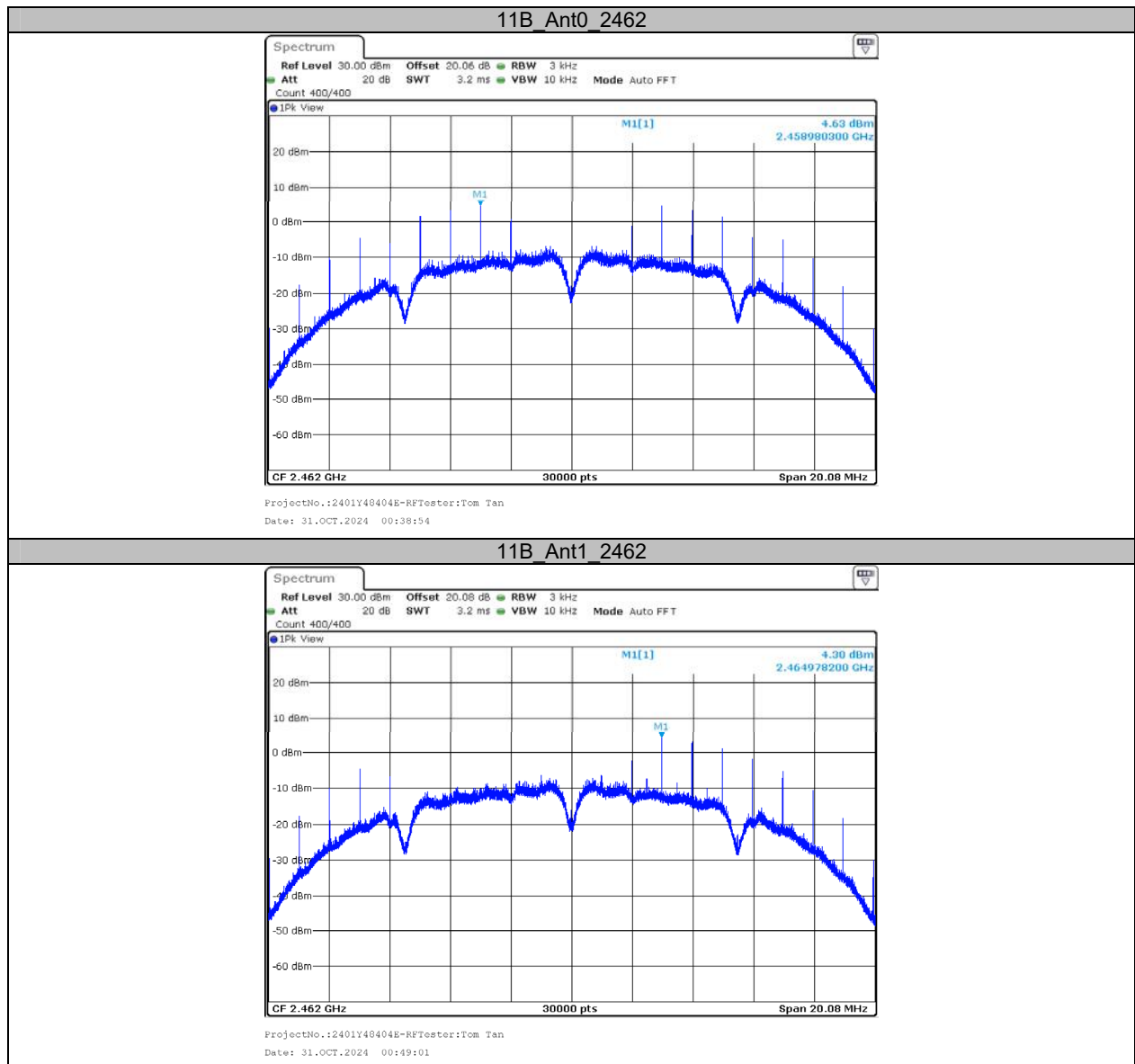


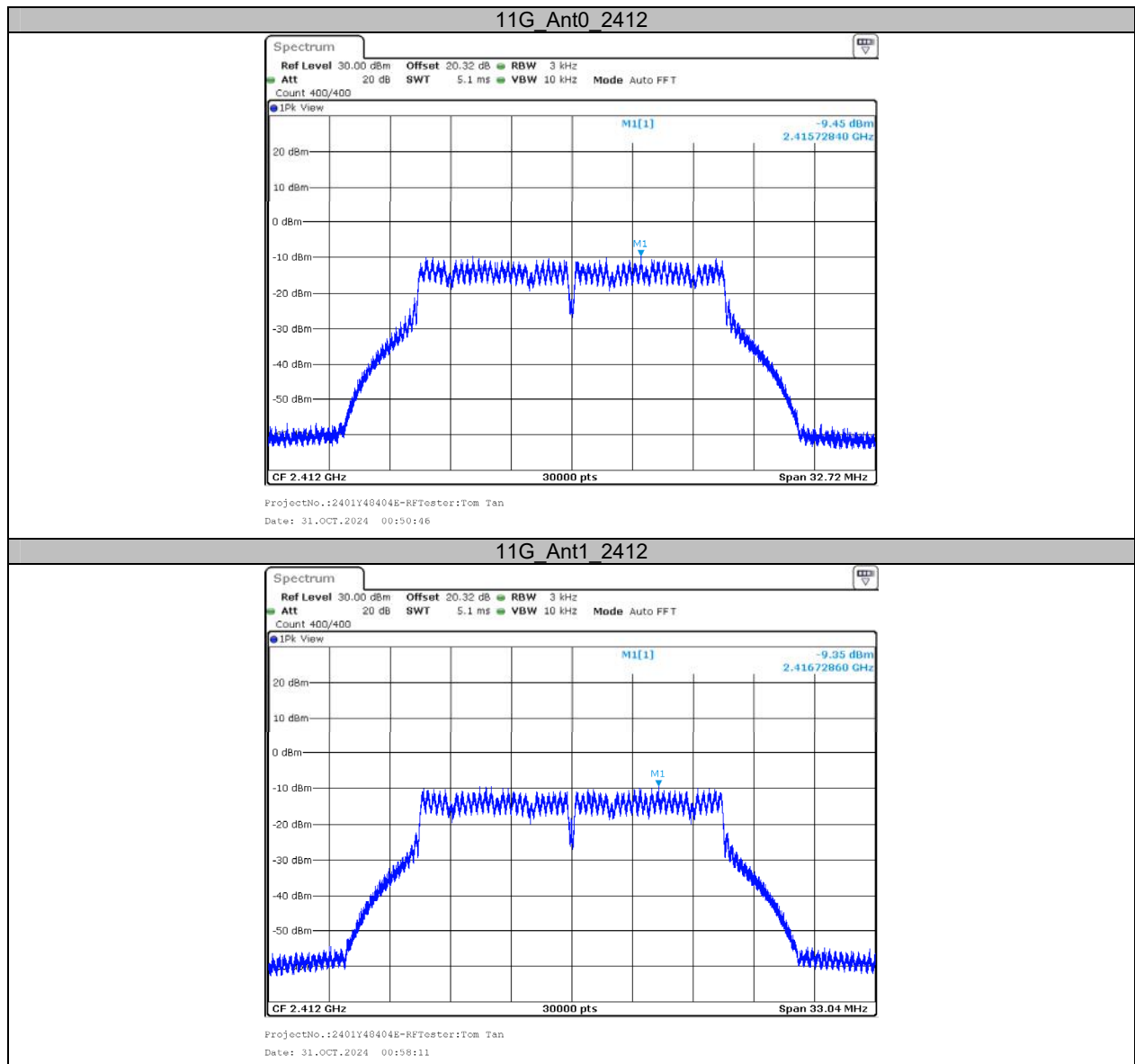
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Date: 31.OCT.2024 00:41:47

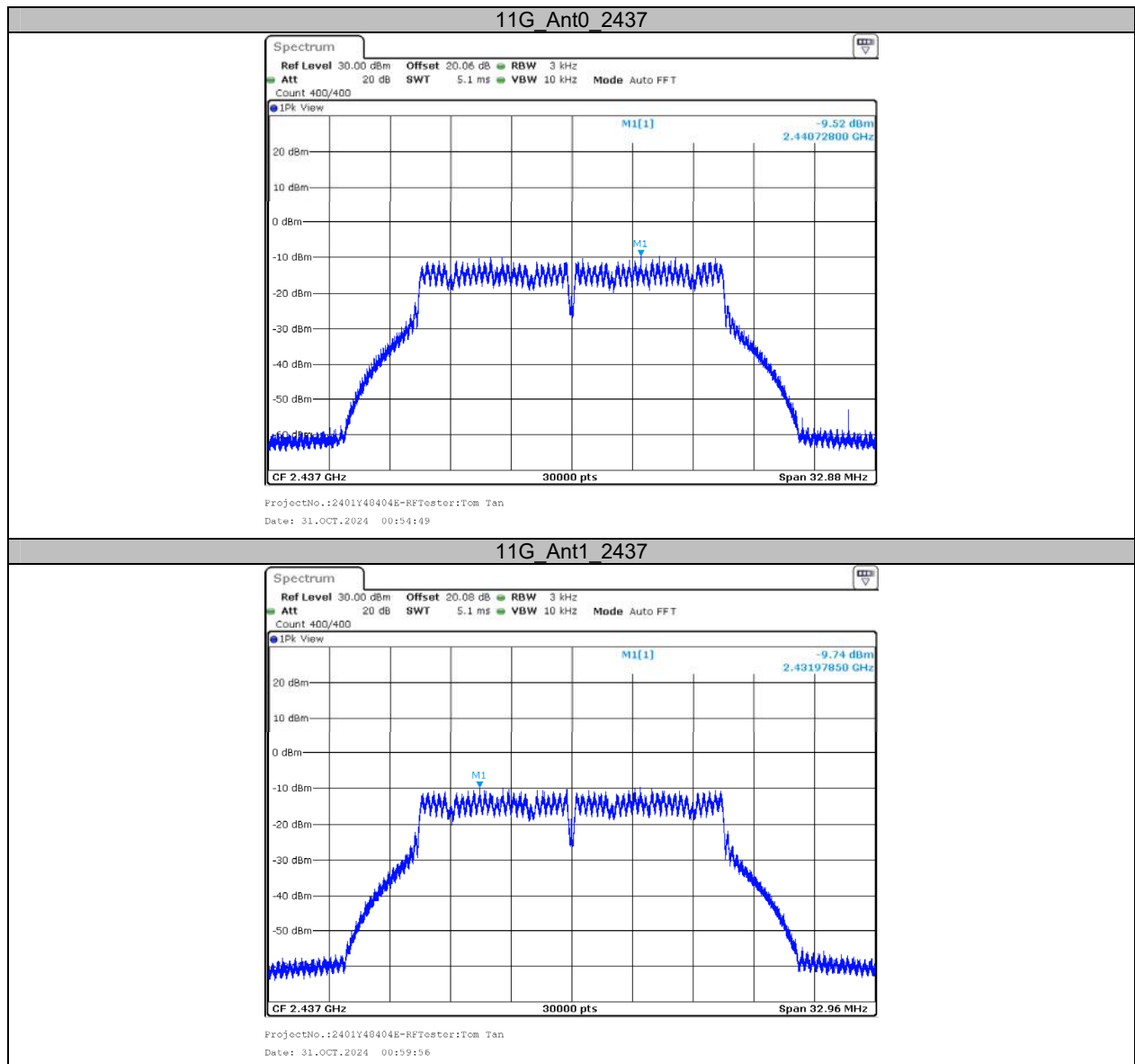
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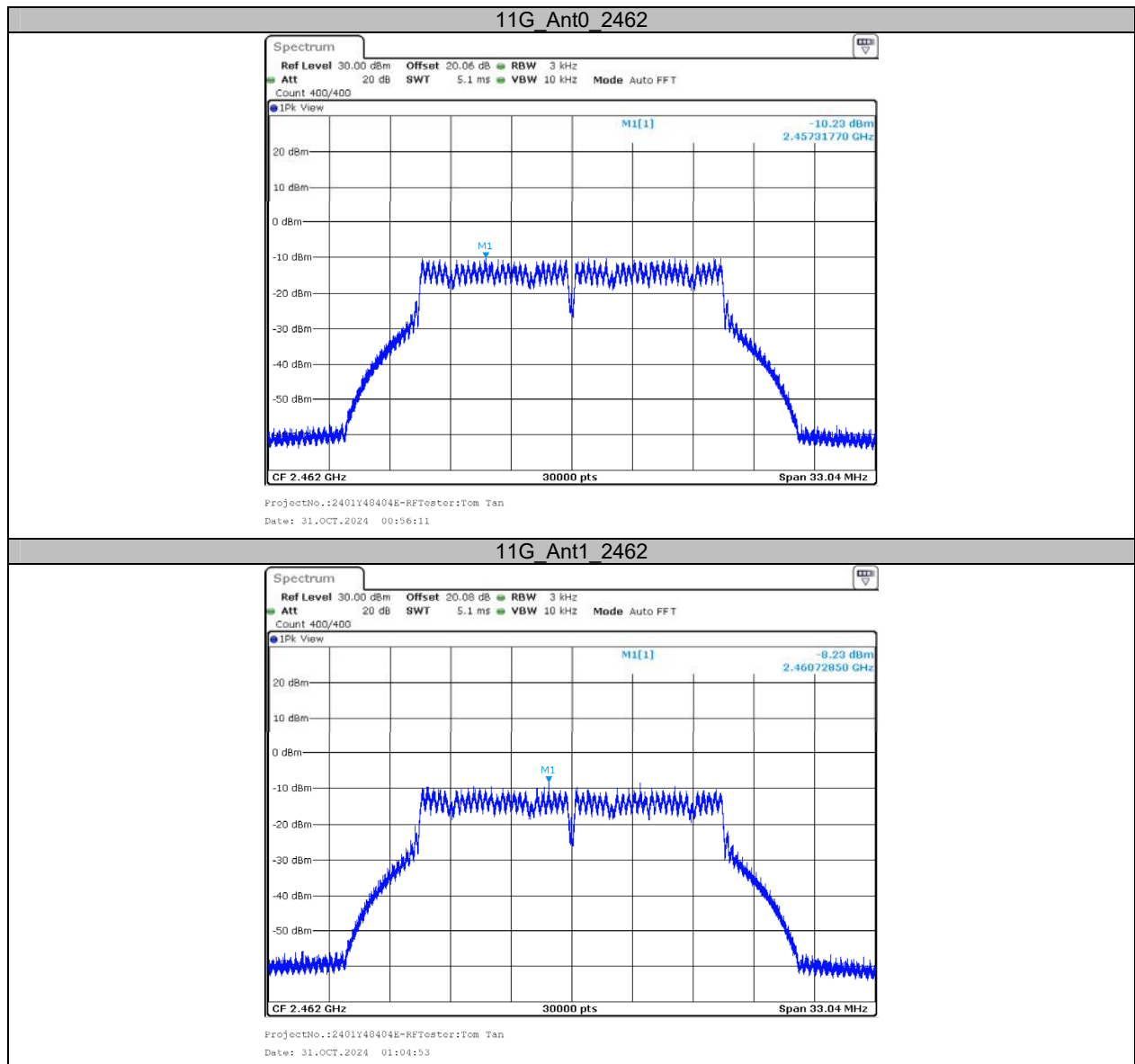


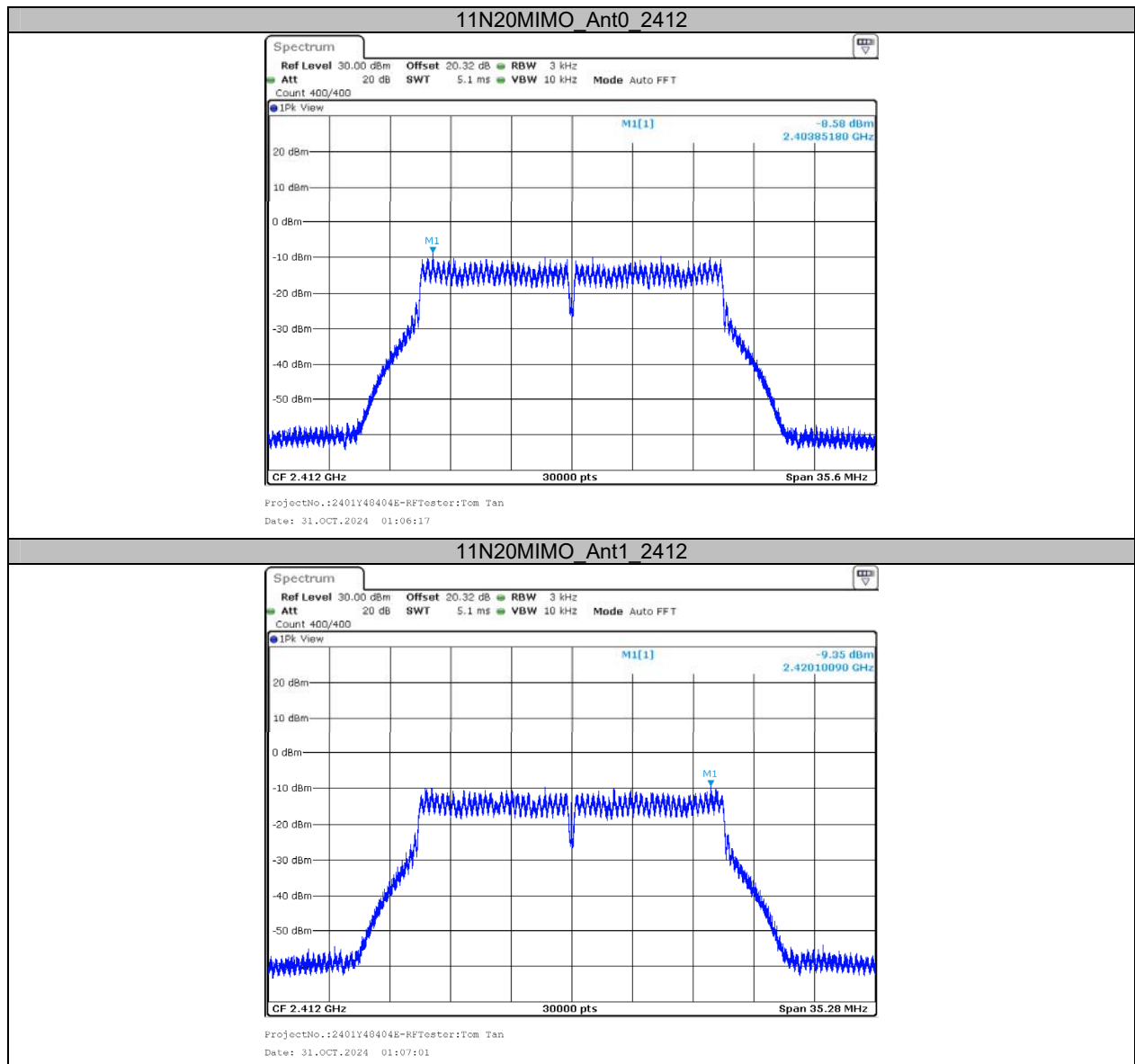
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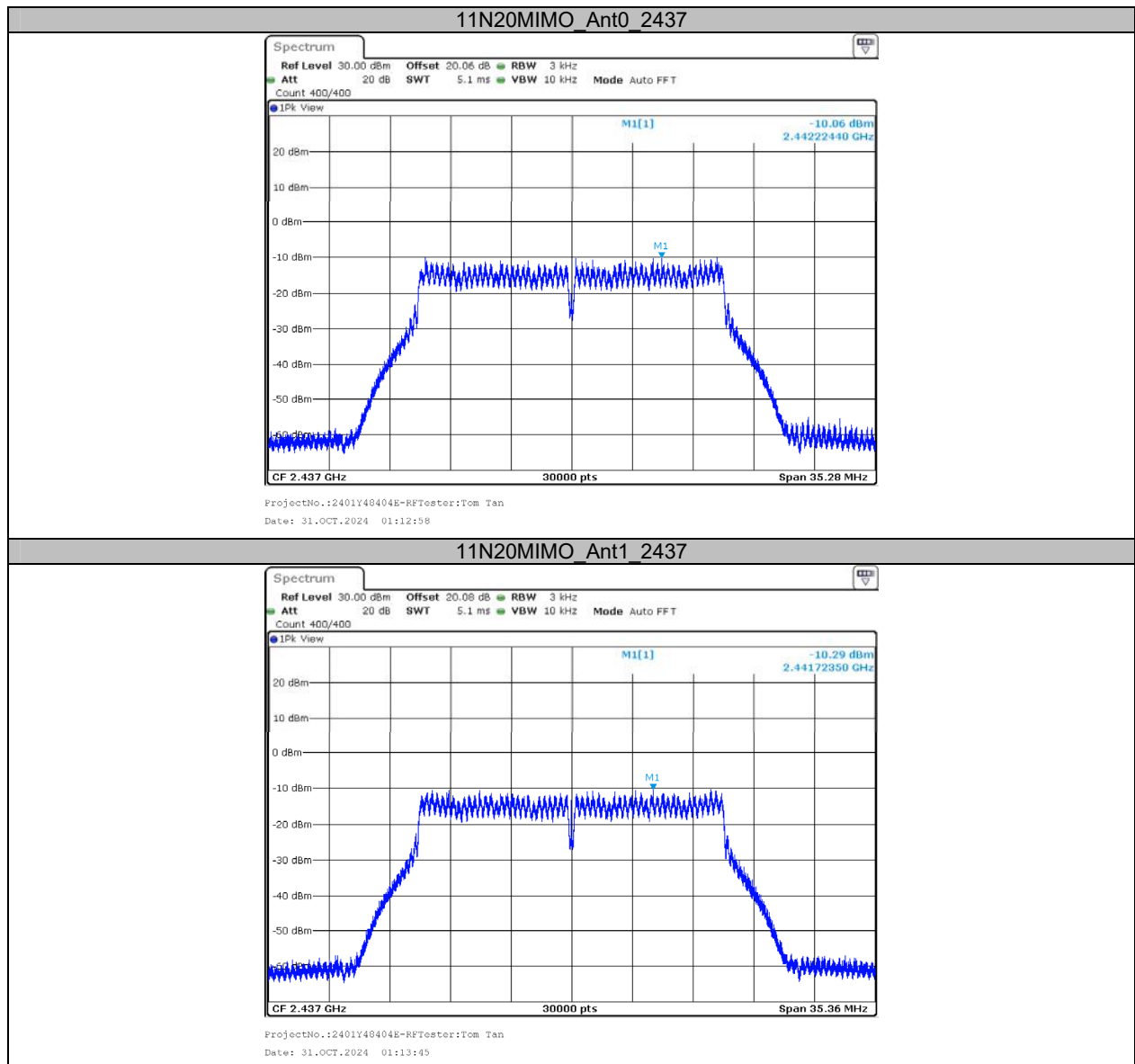


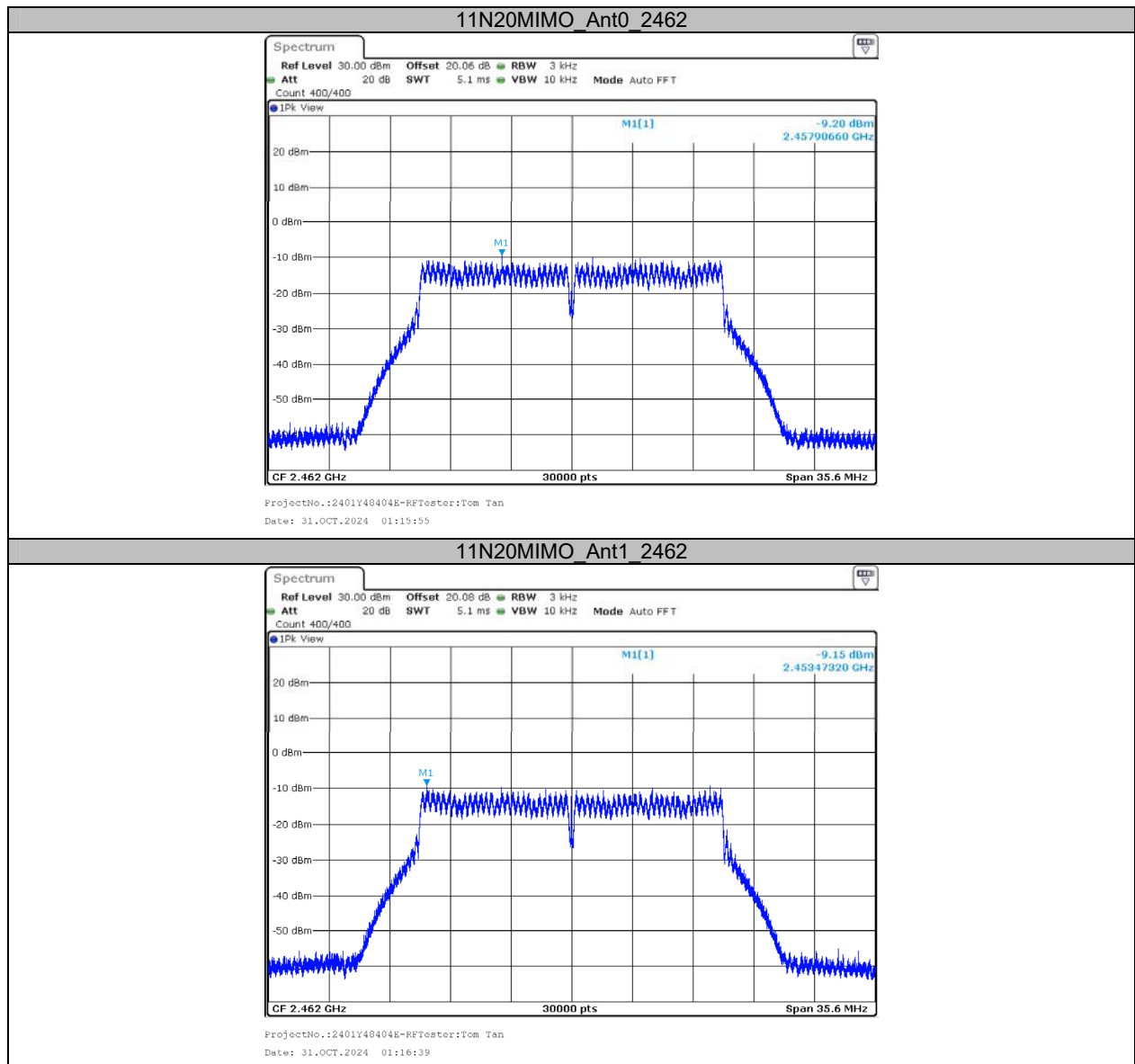


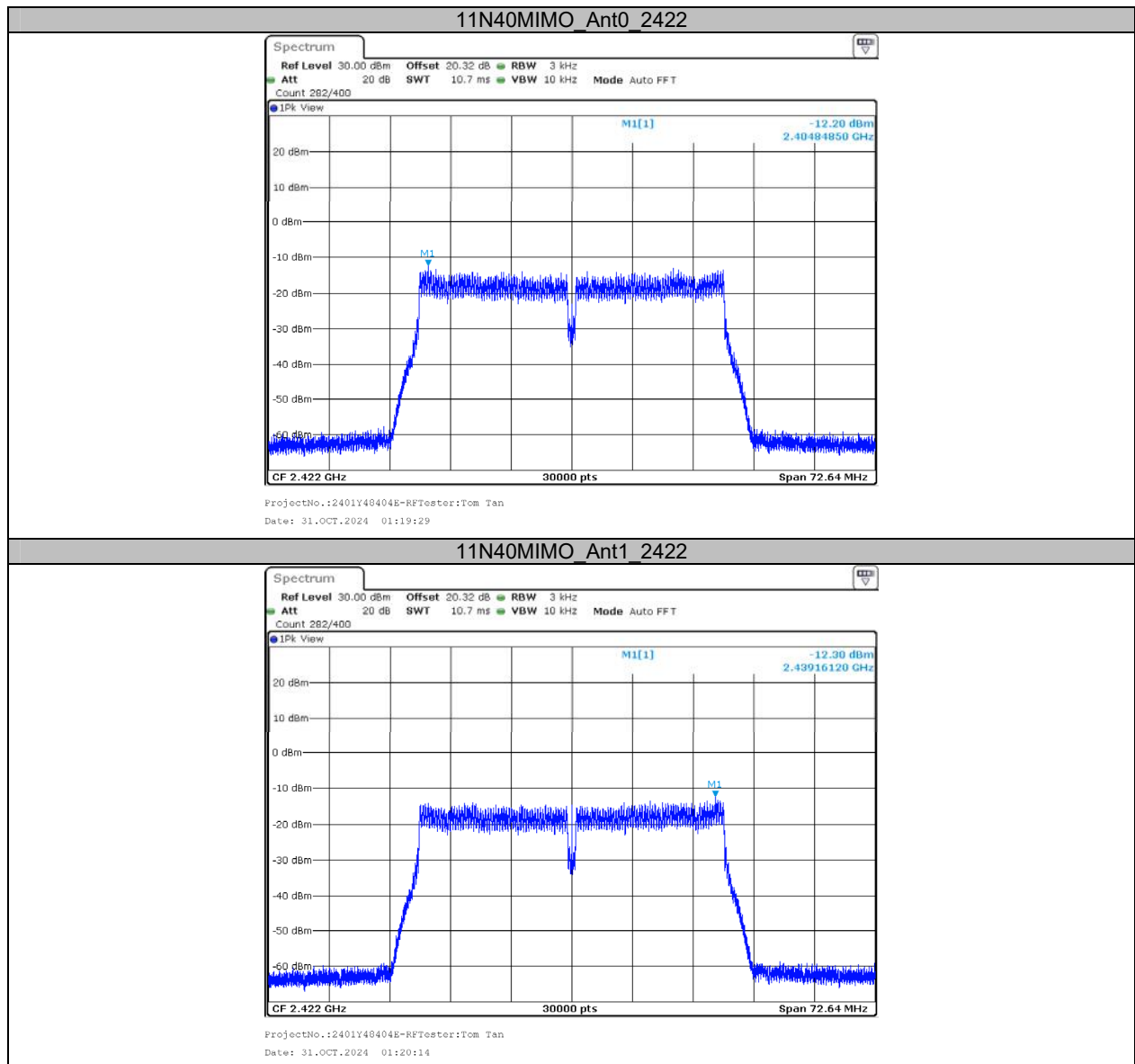


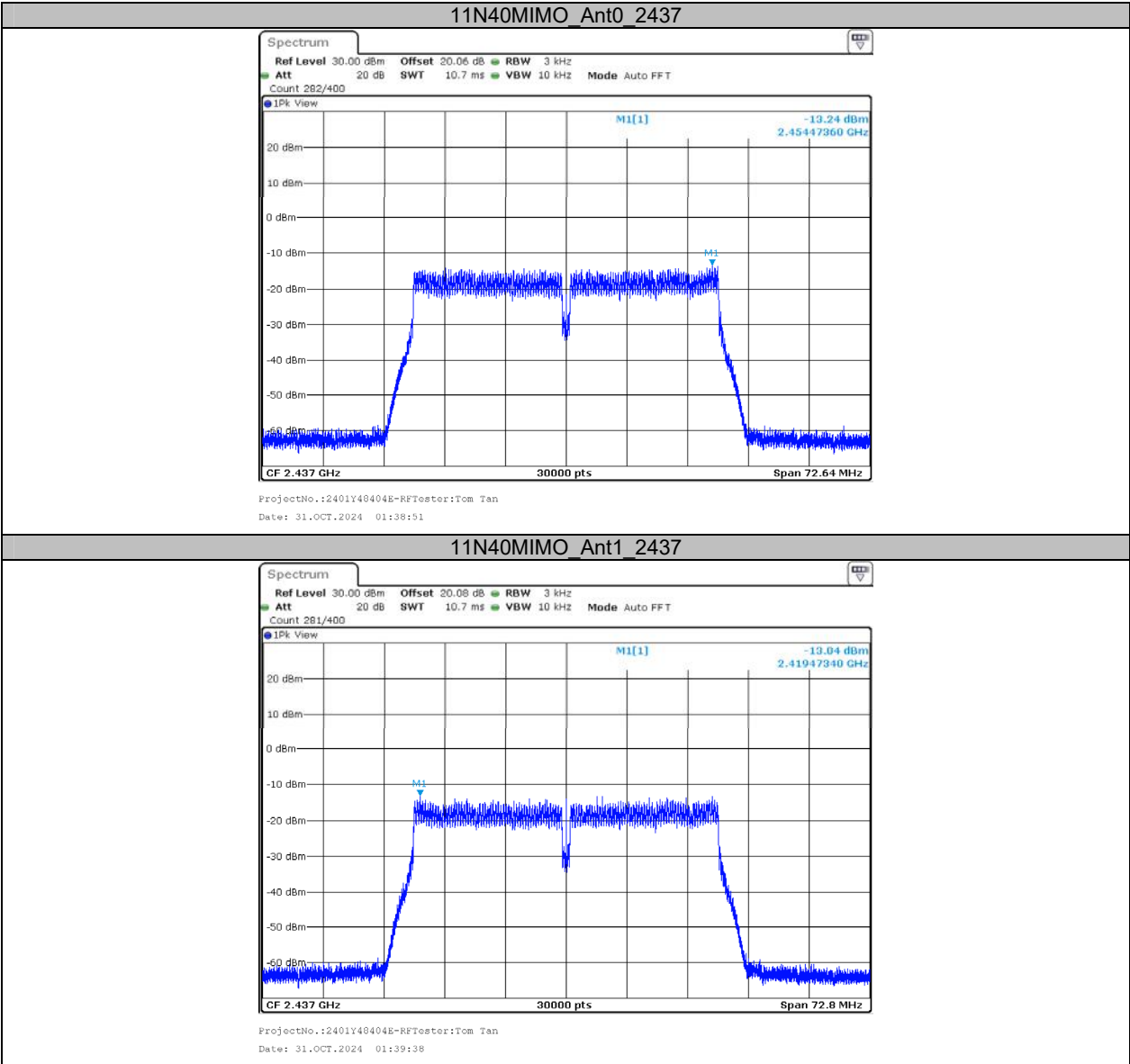


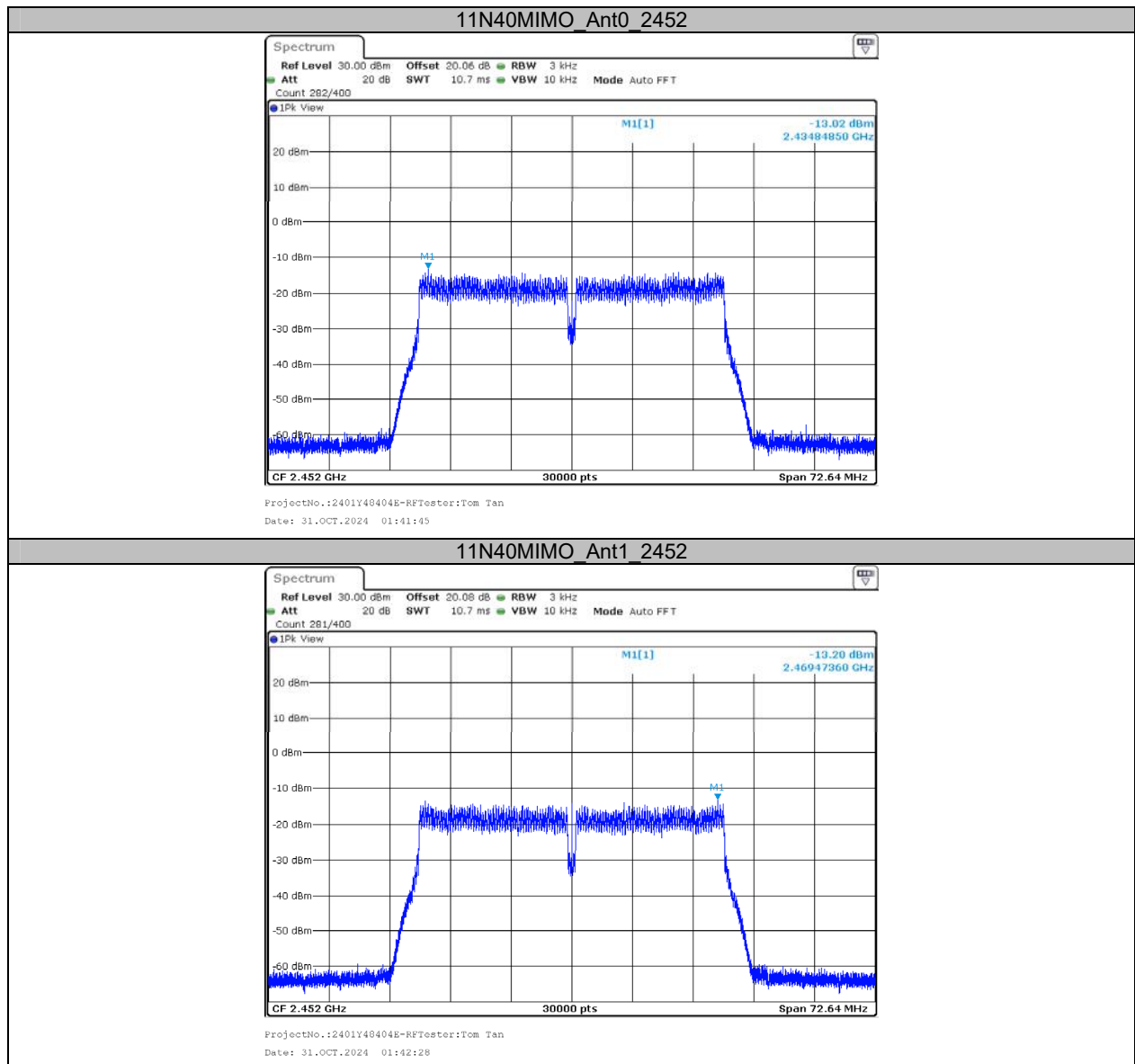


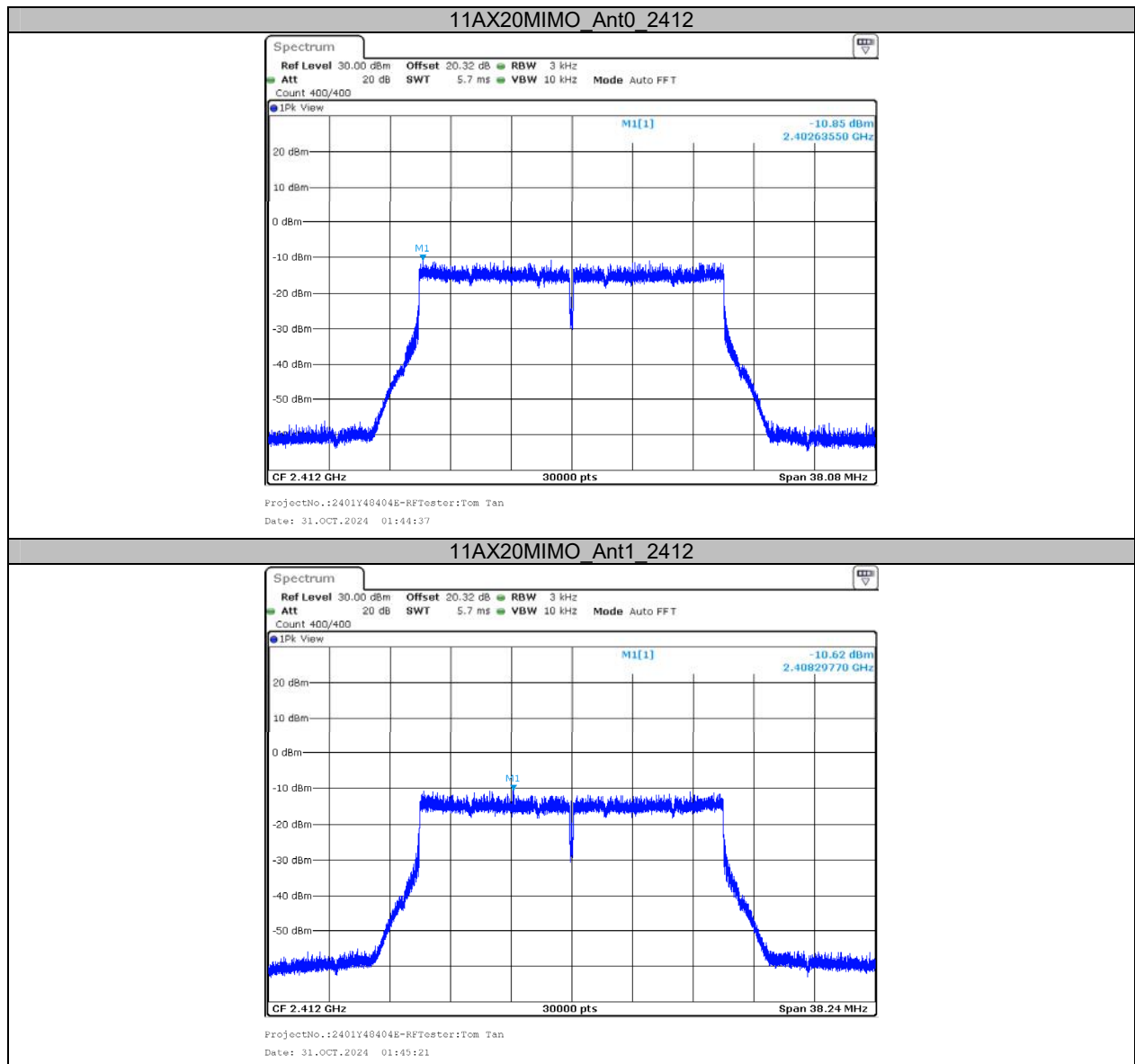


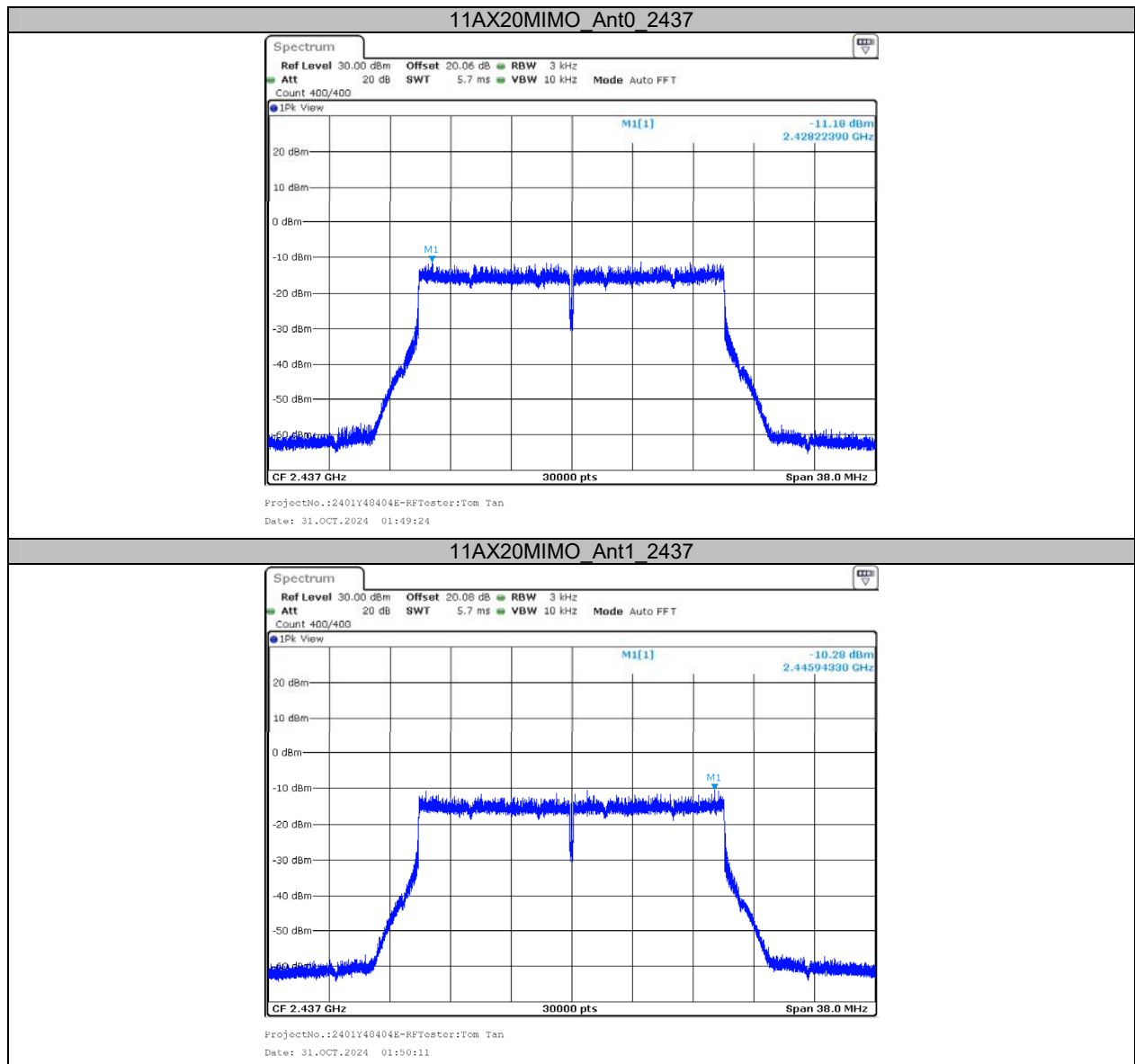


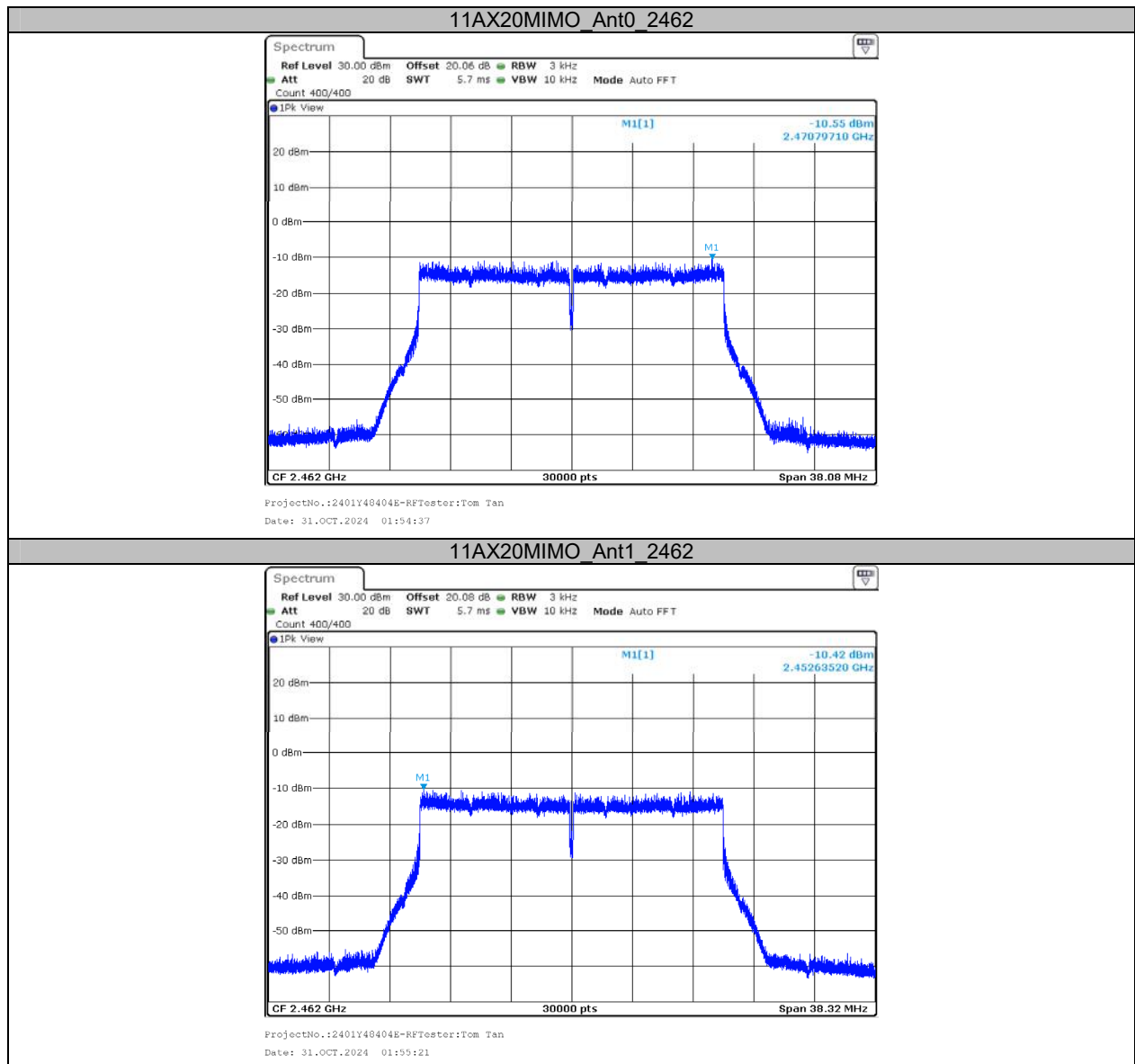


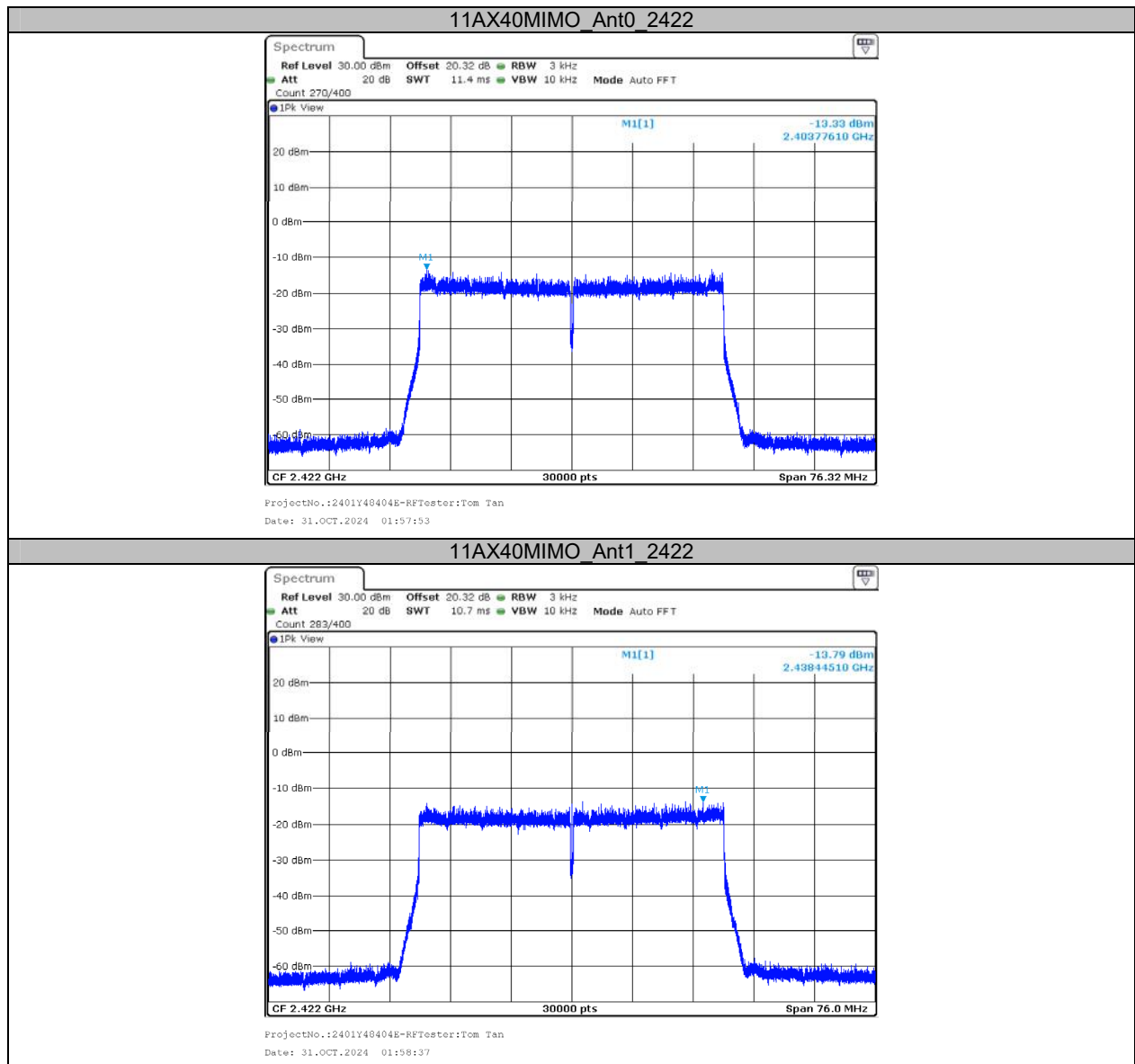


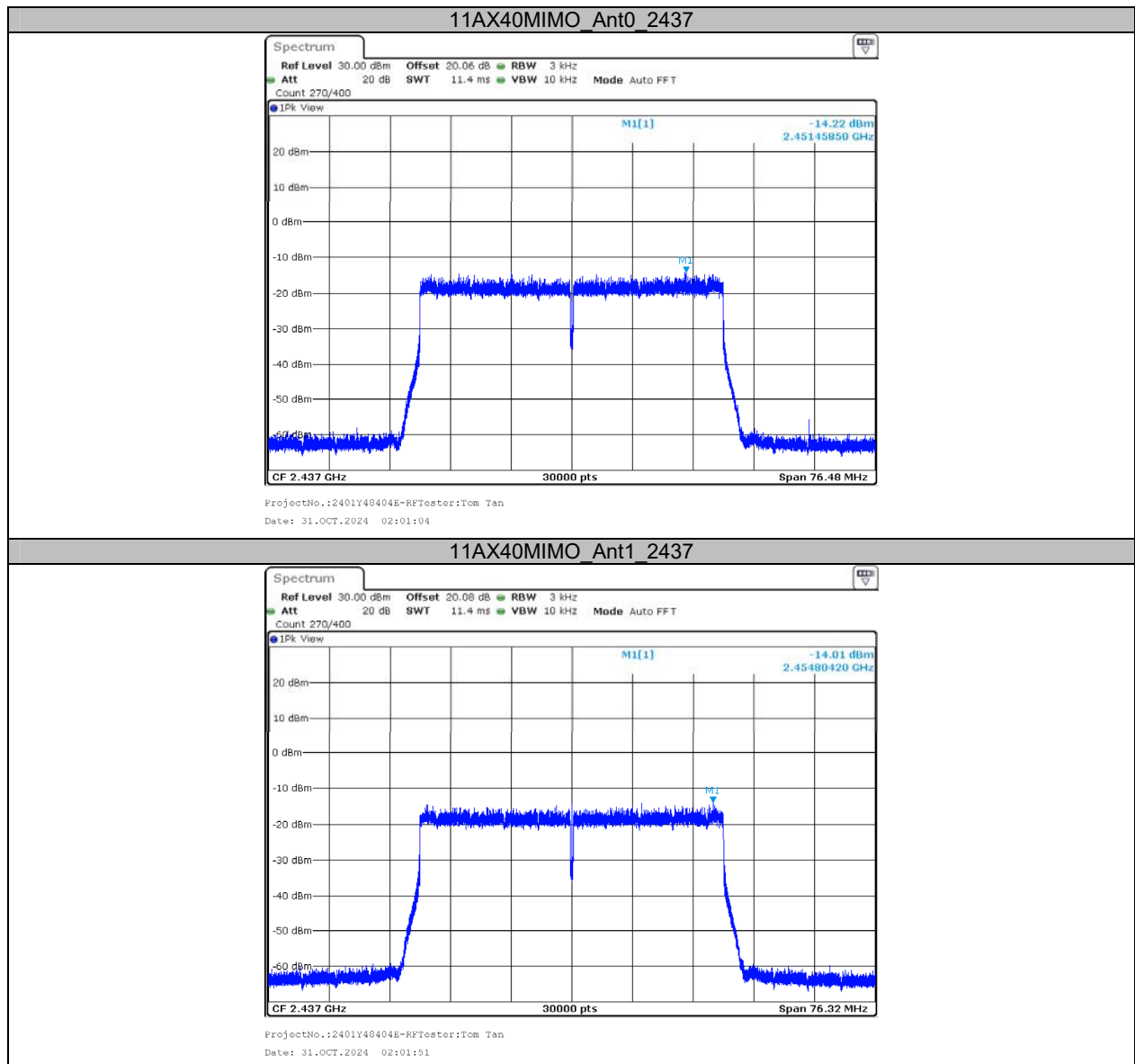


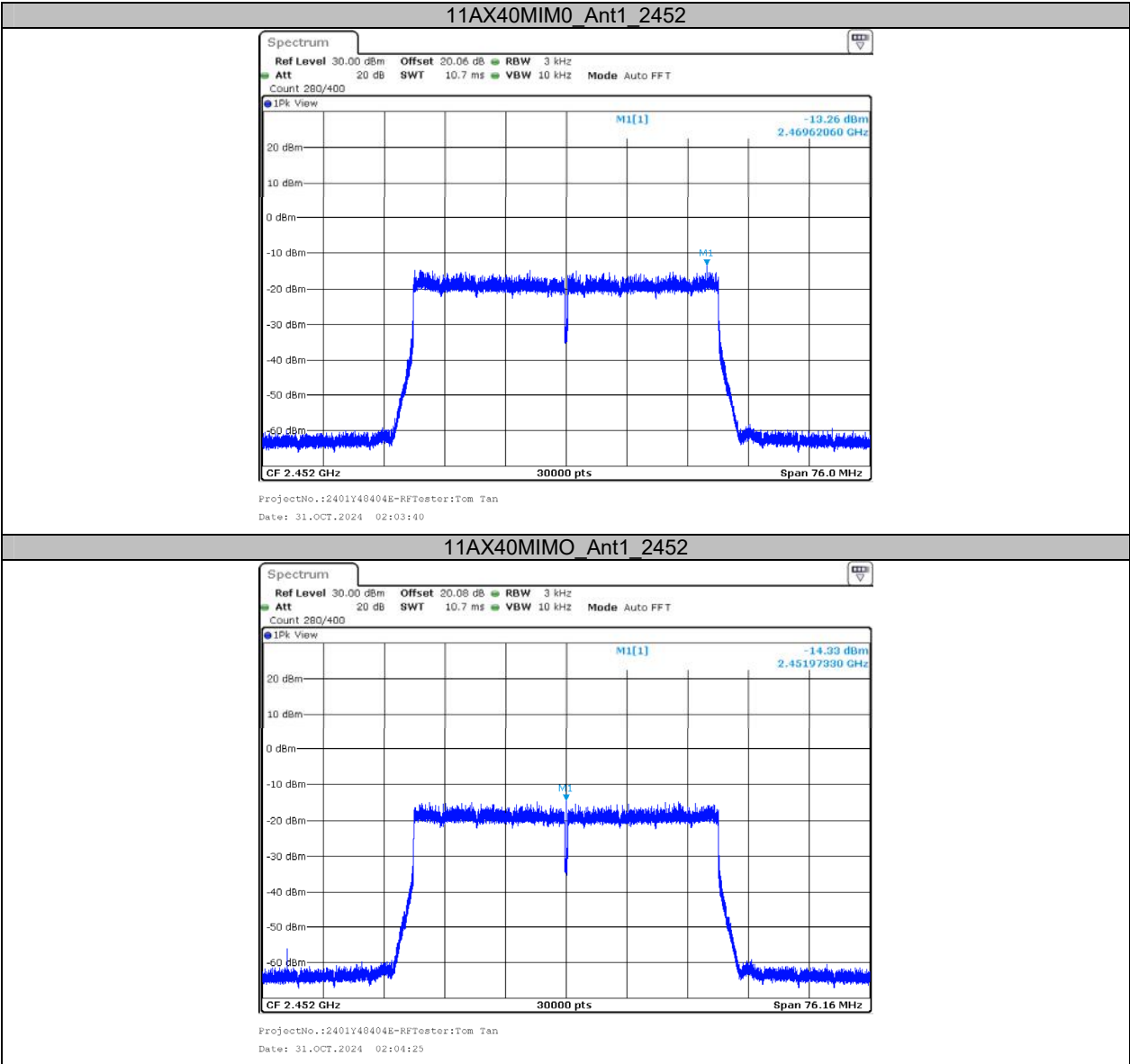






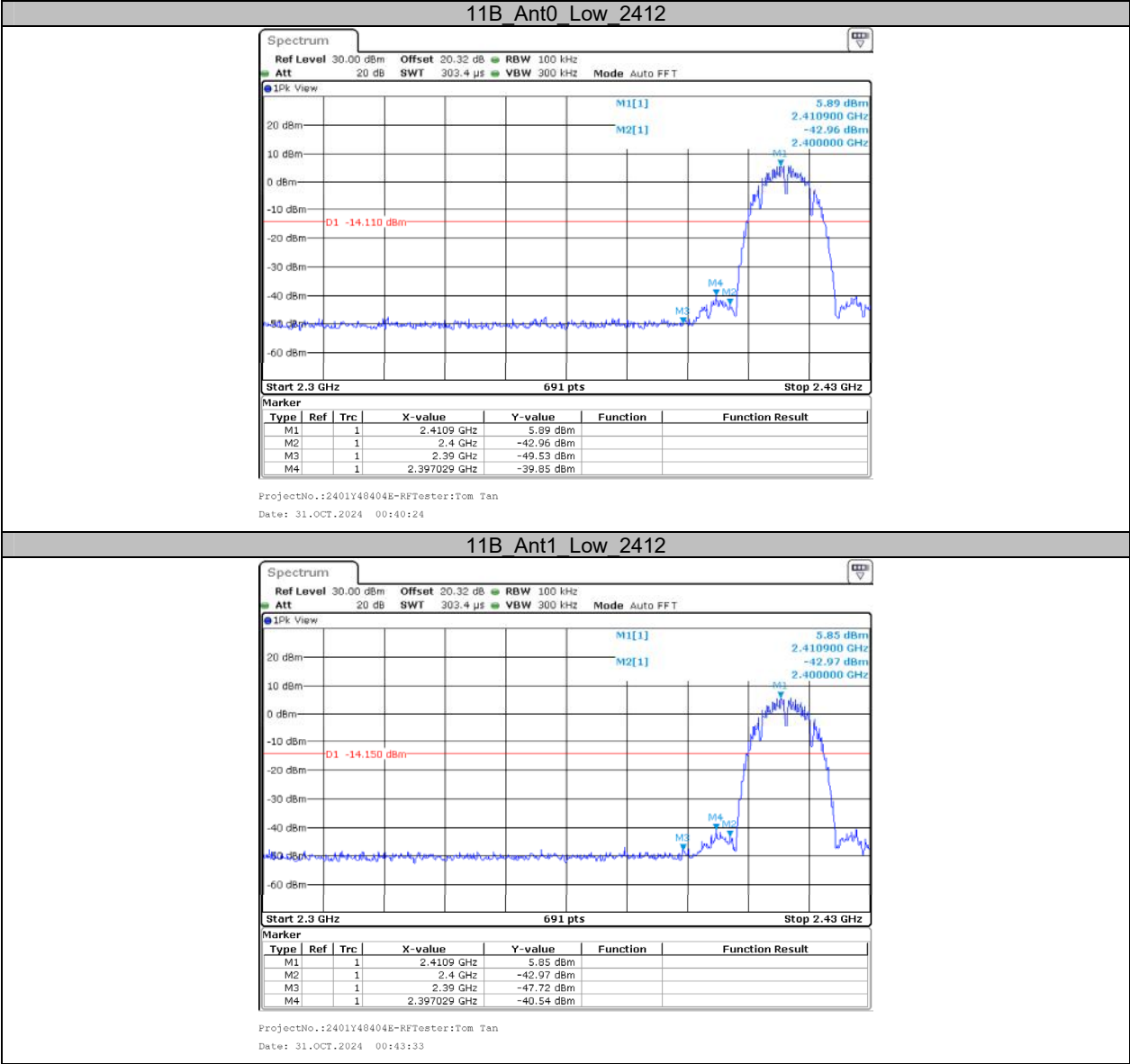


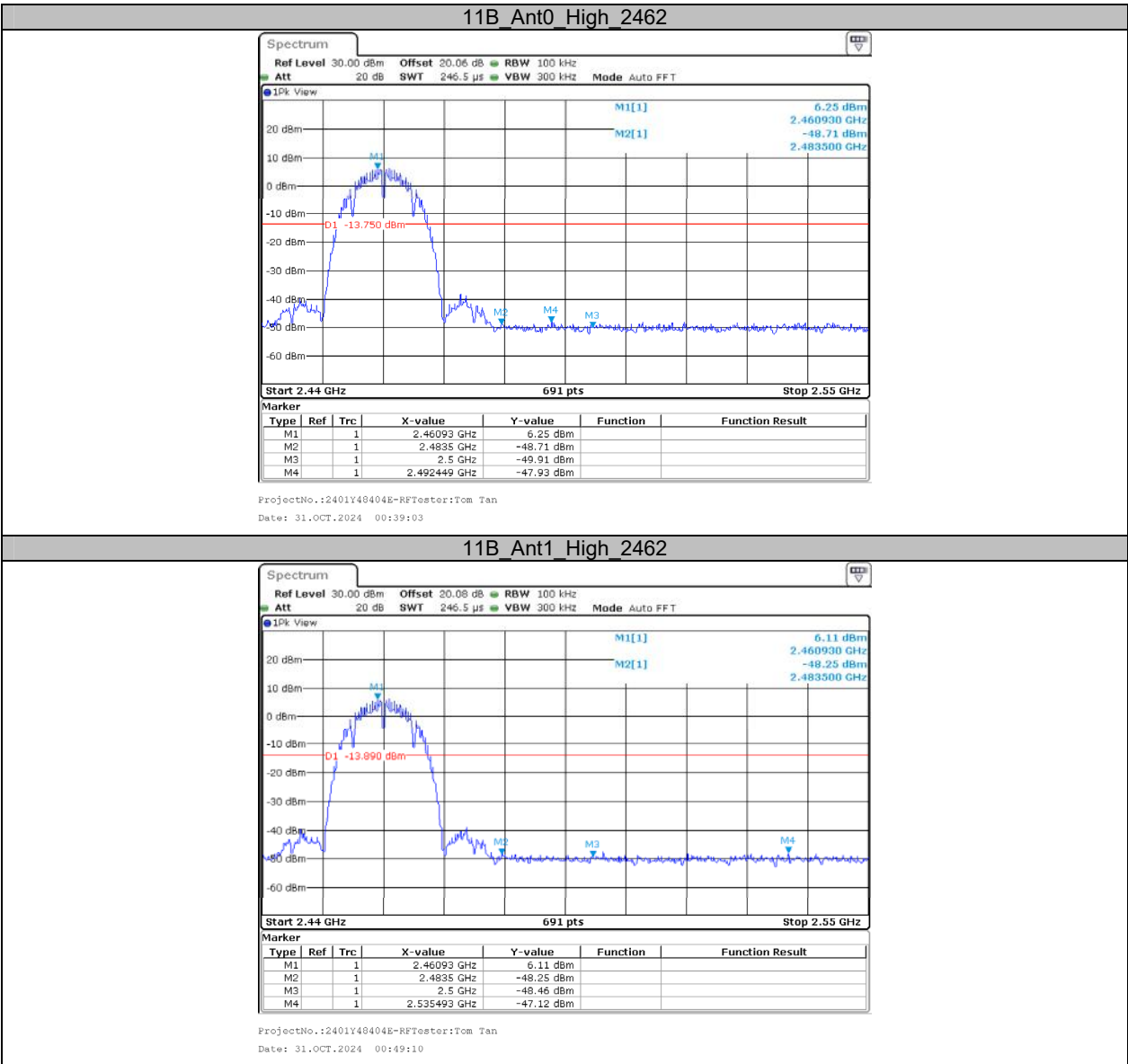


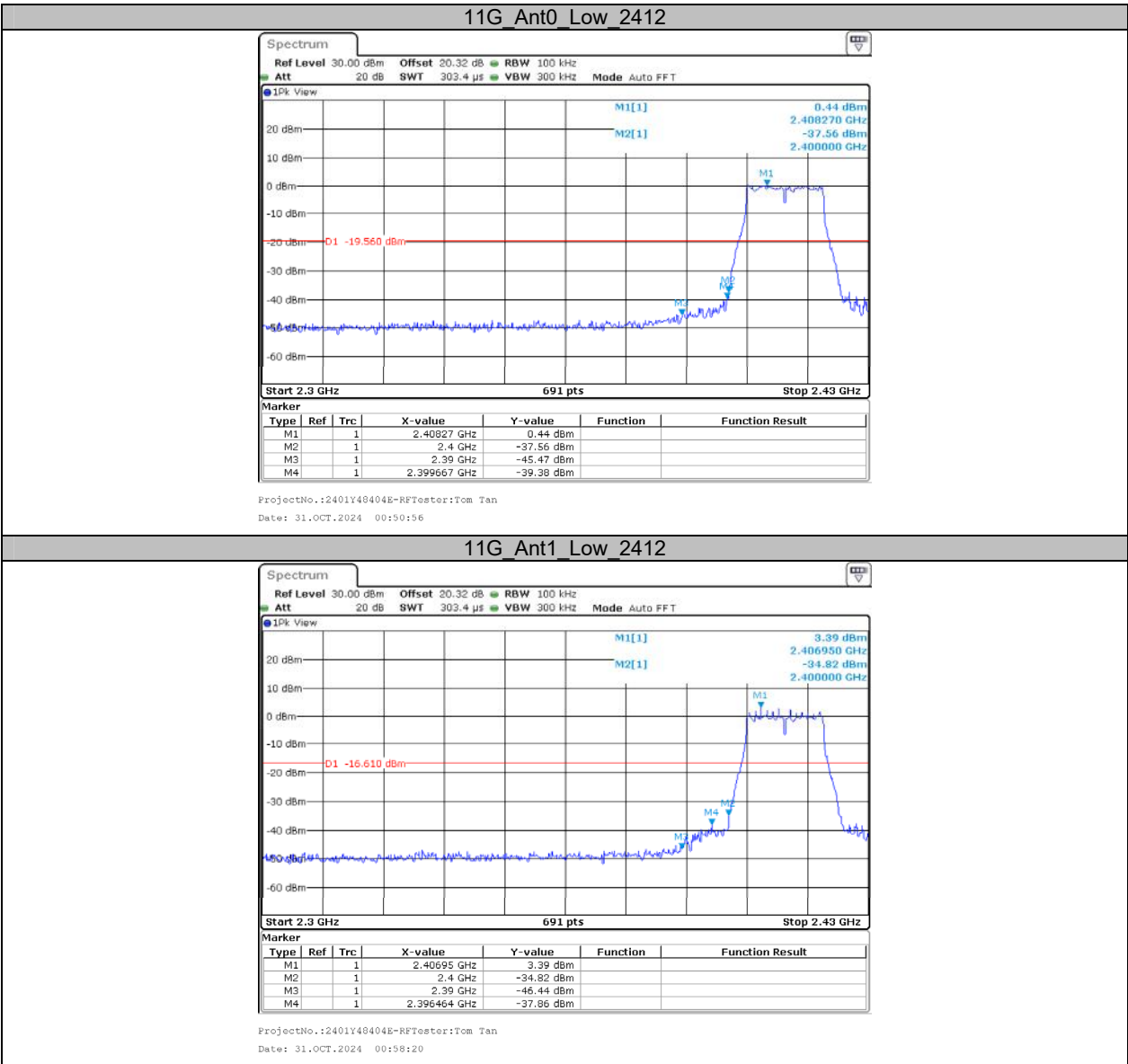


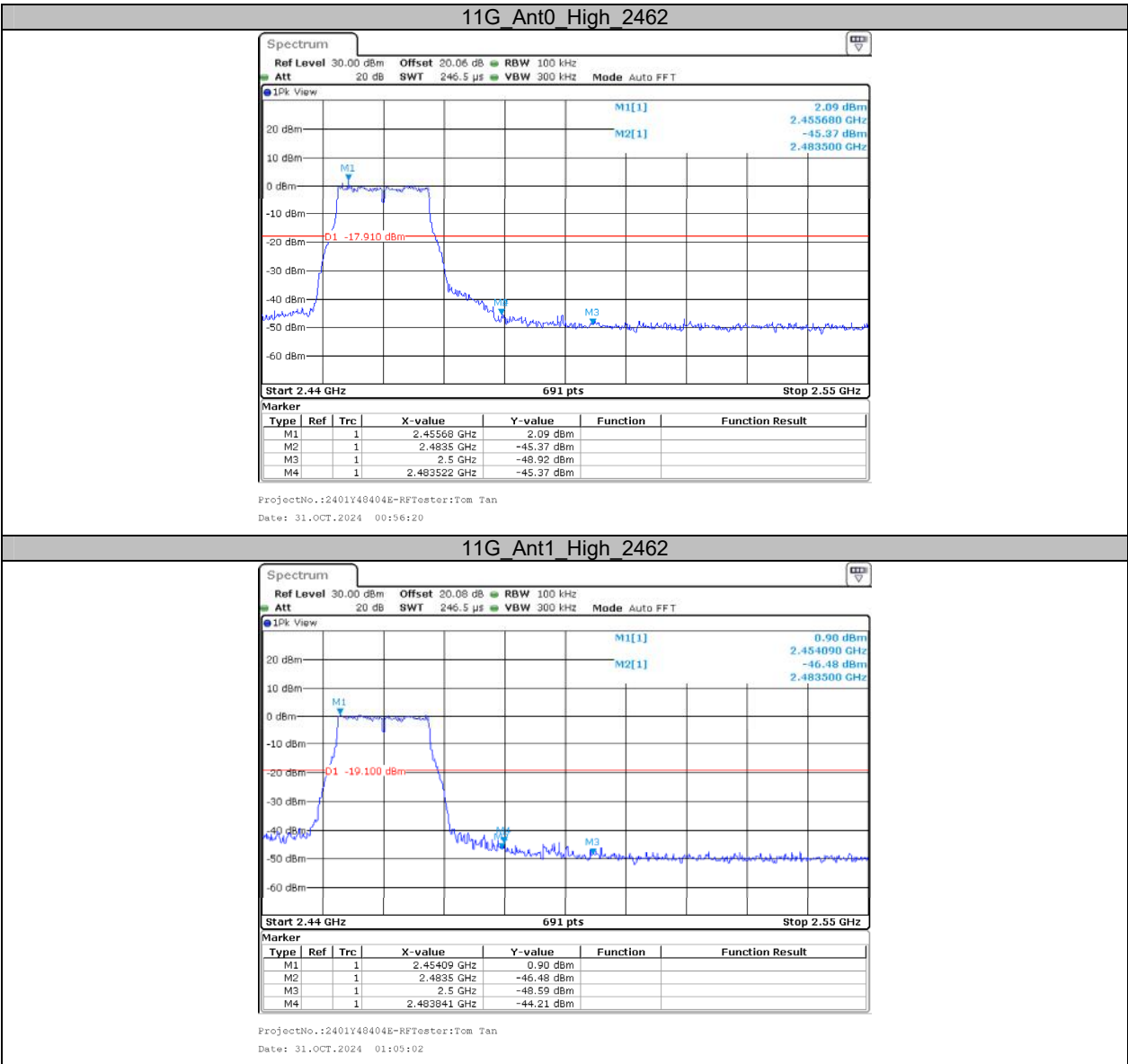
Appendix E: Band edge measurements

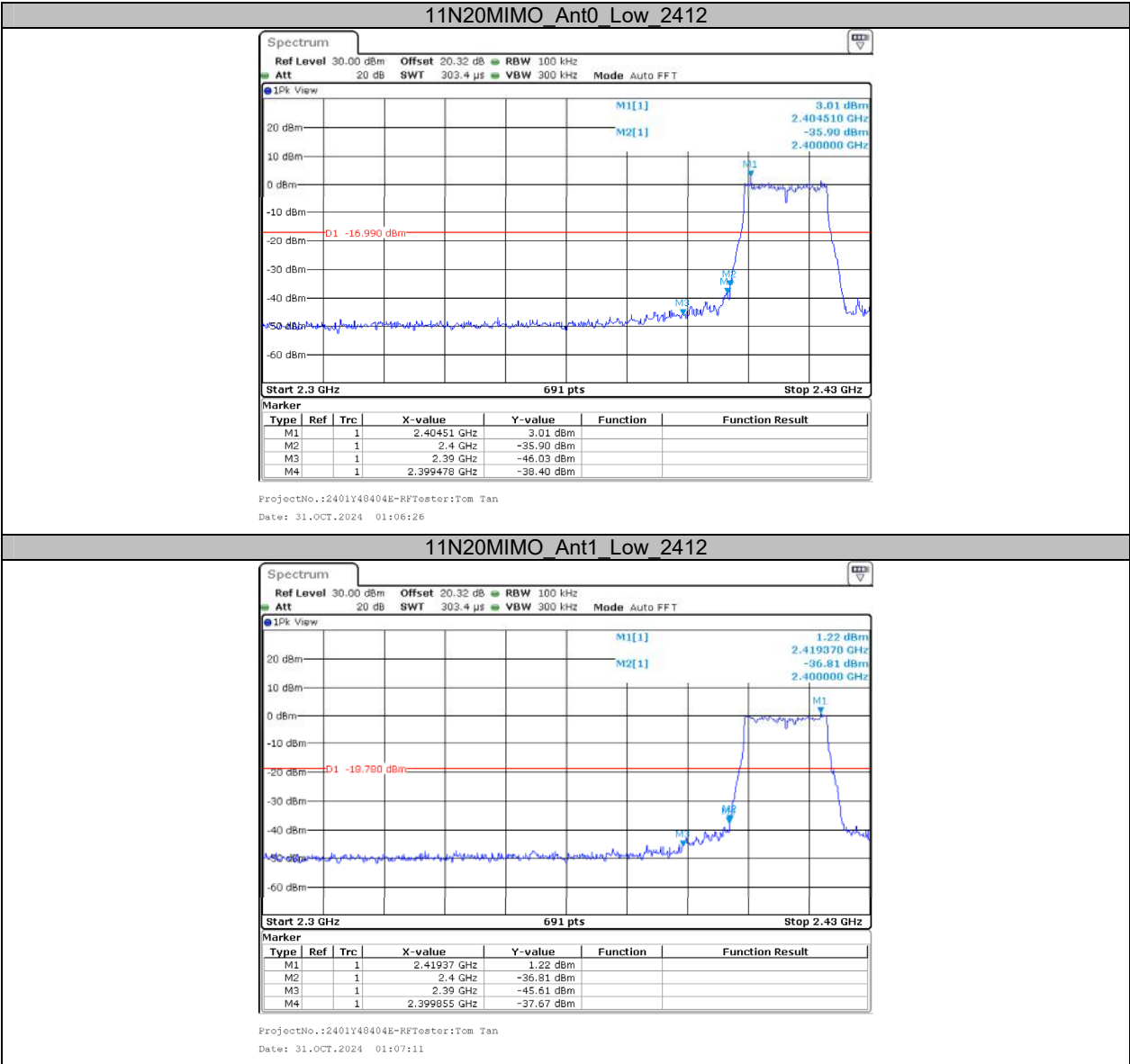
Test Graphs

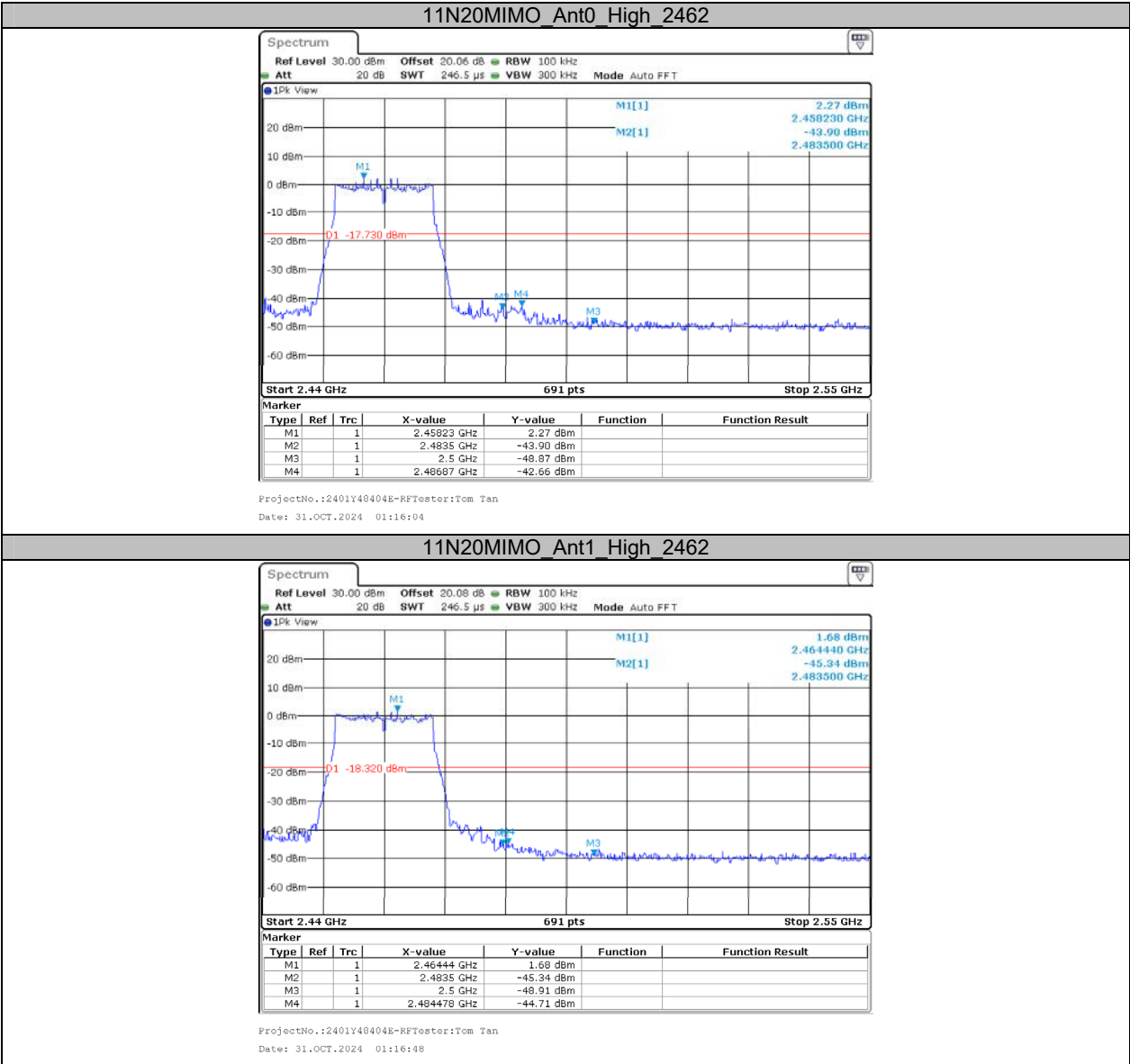


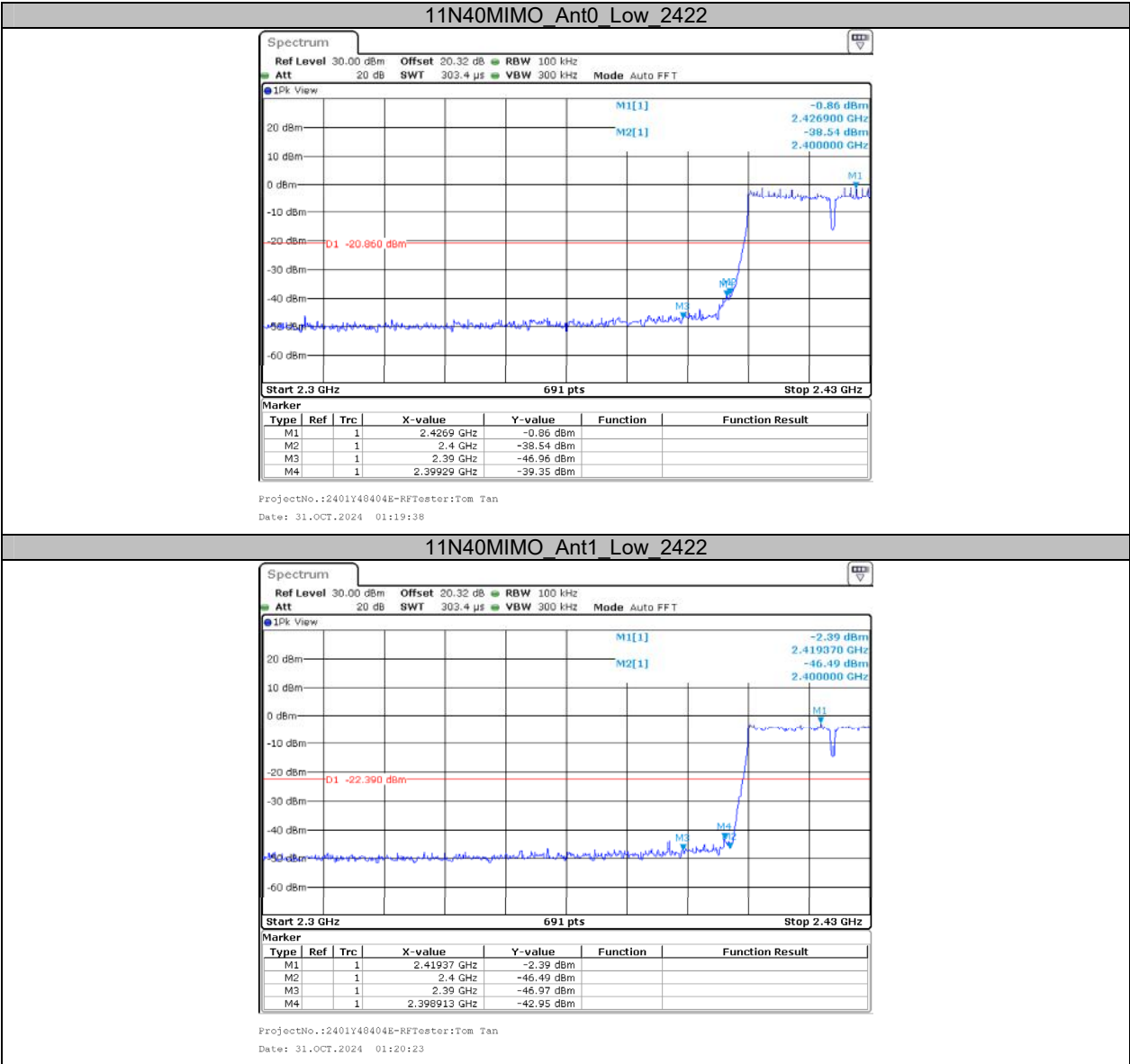


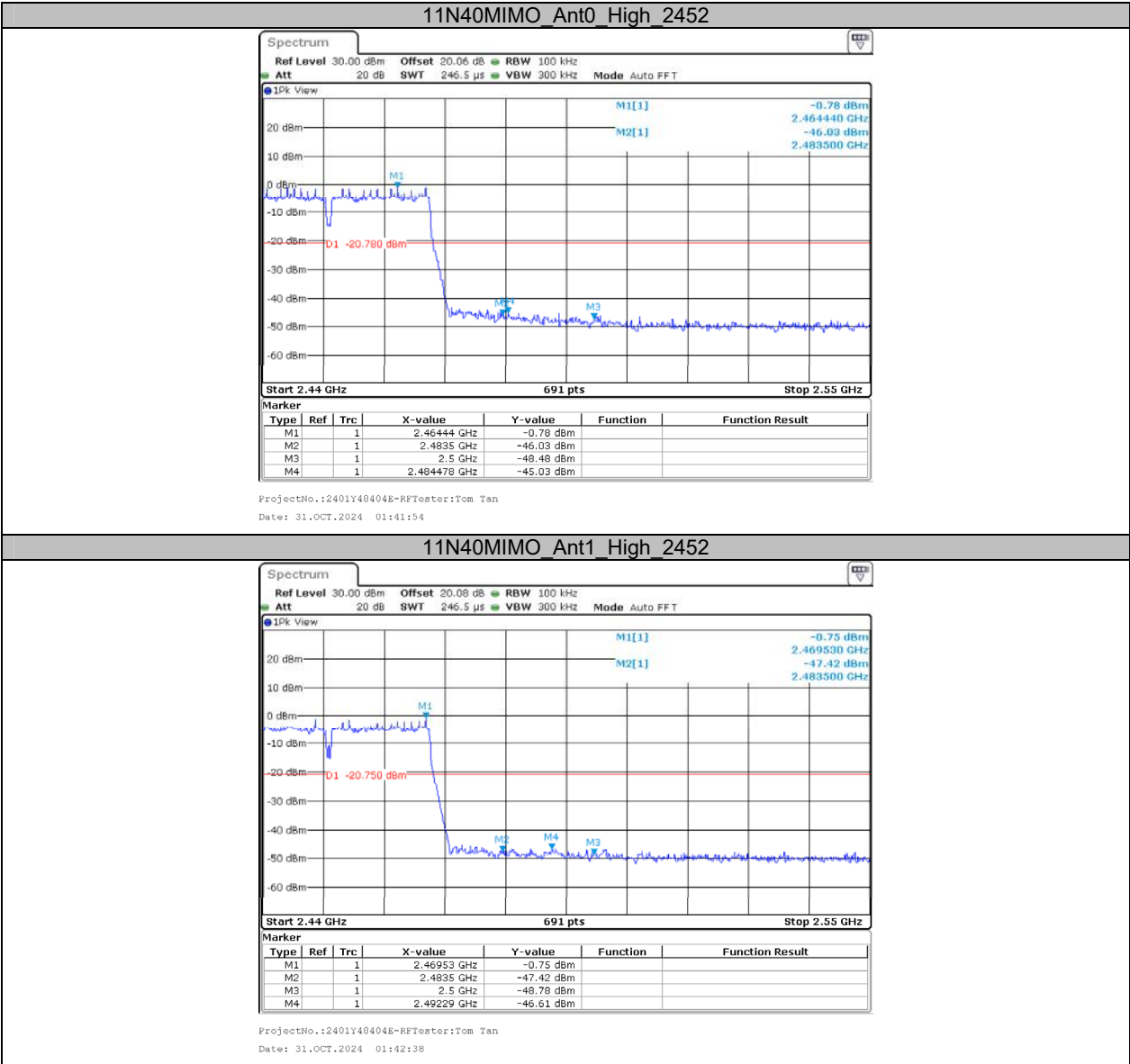


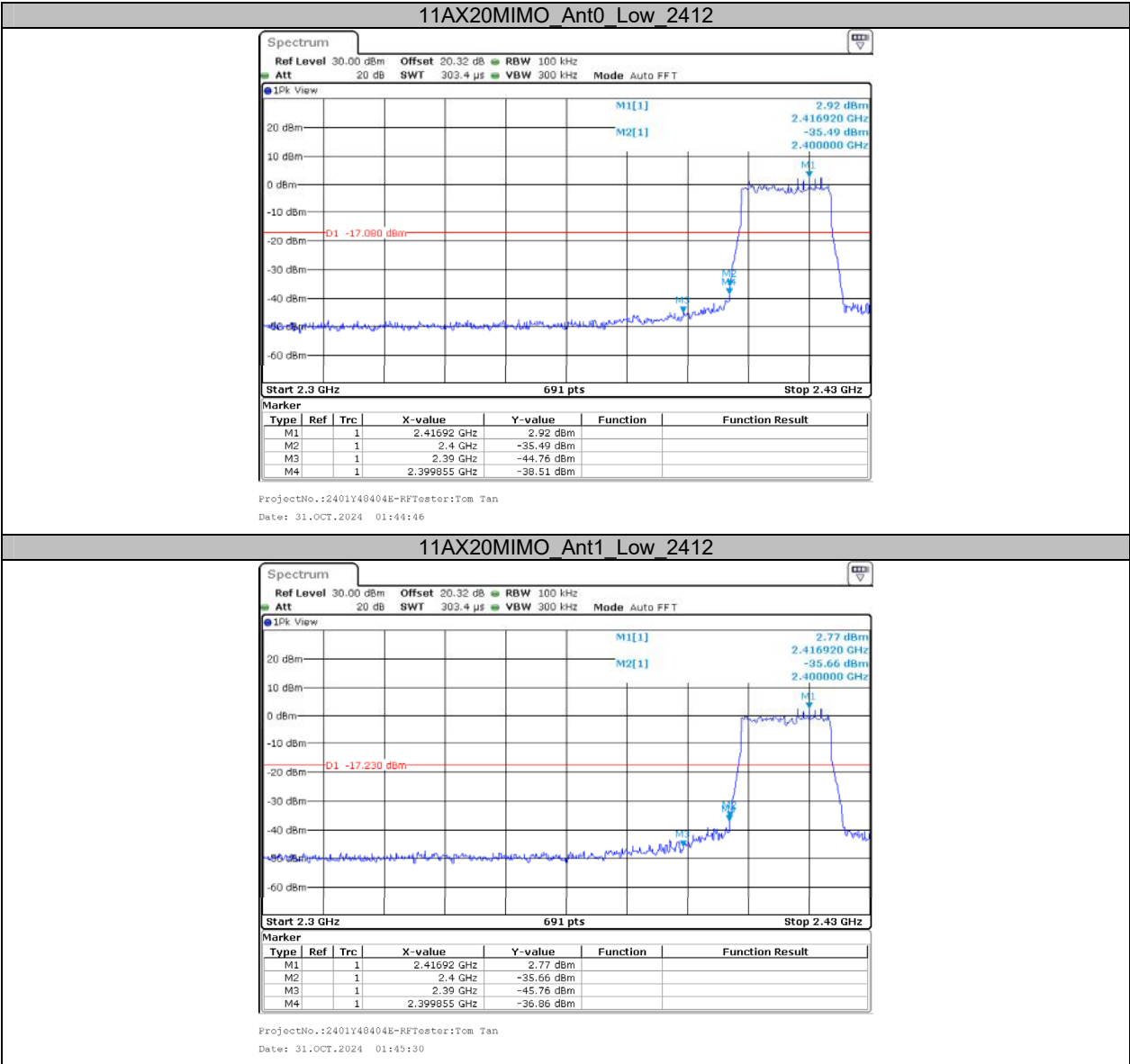


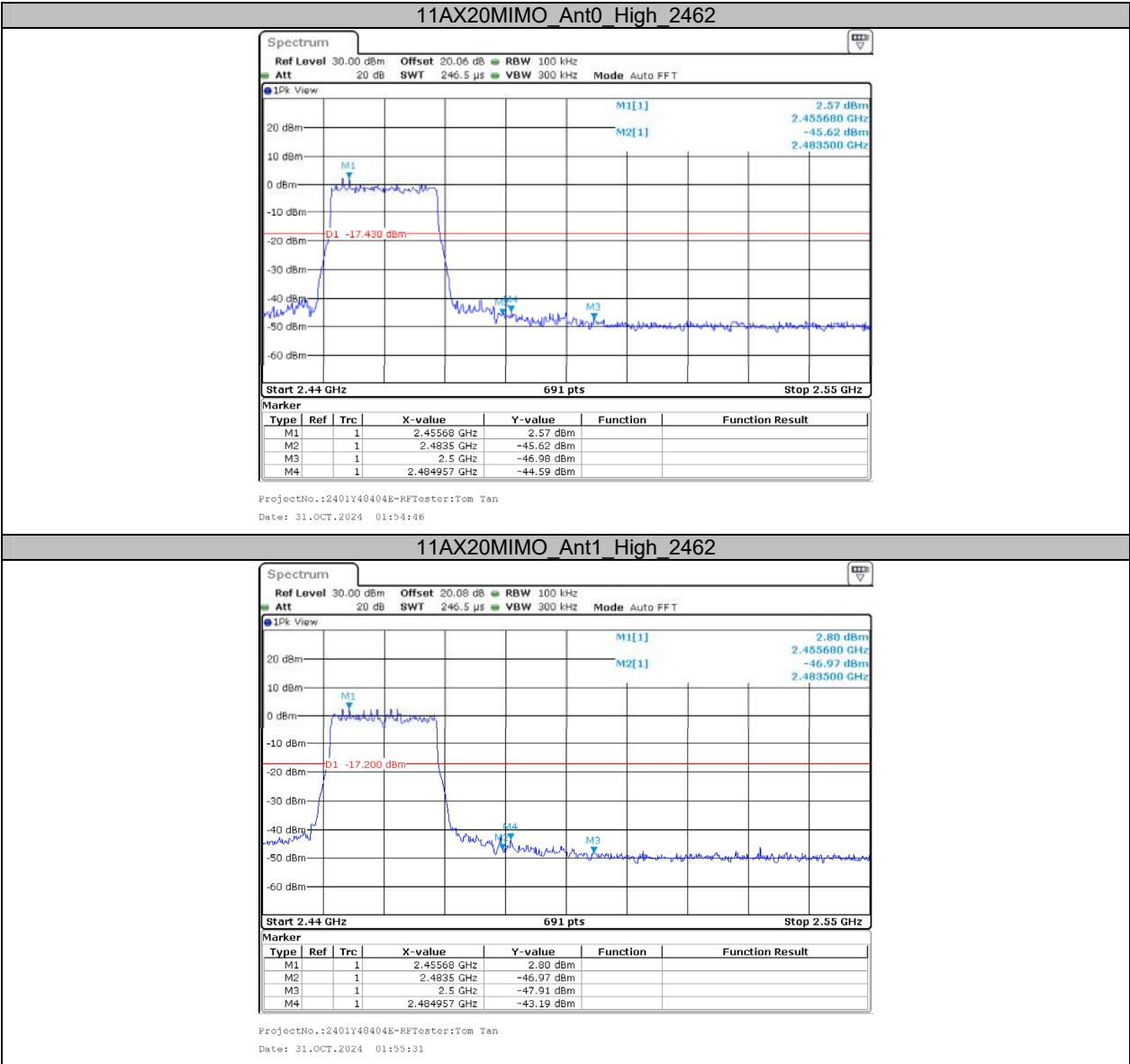


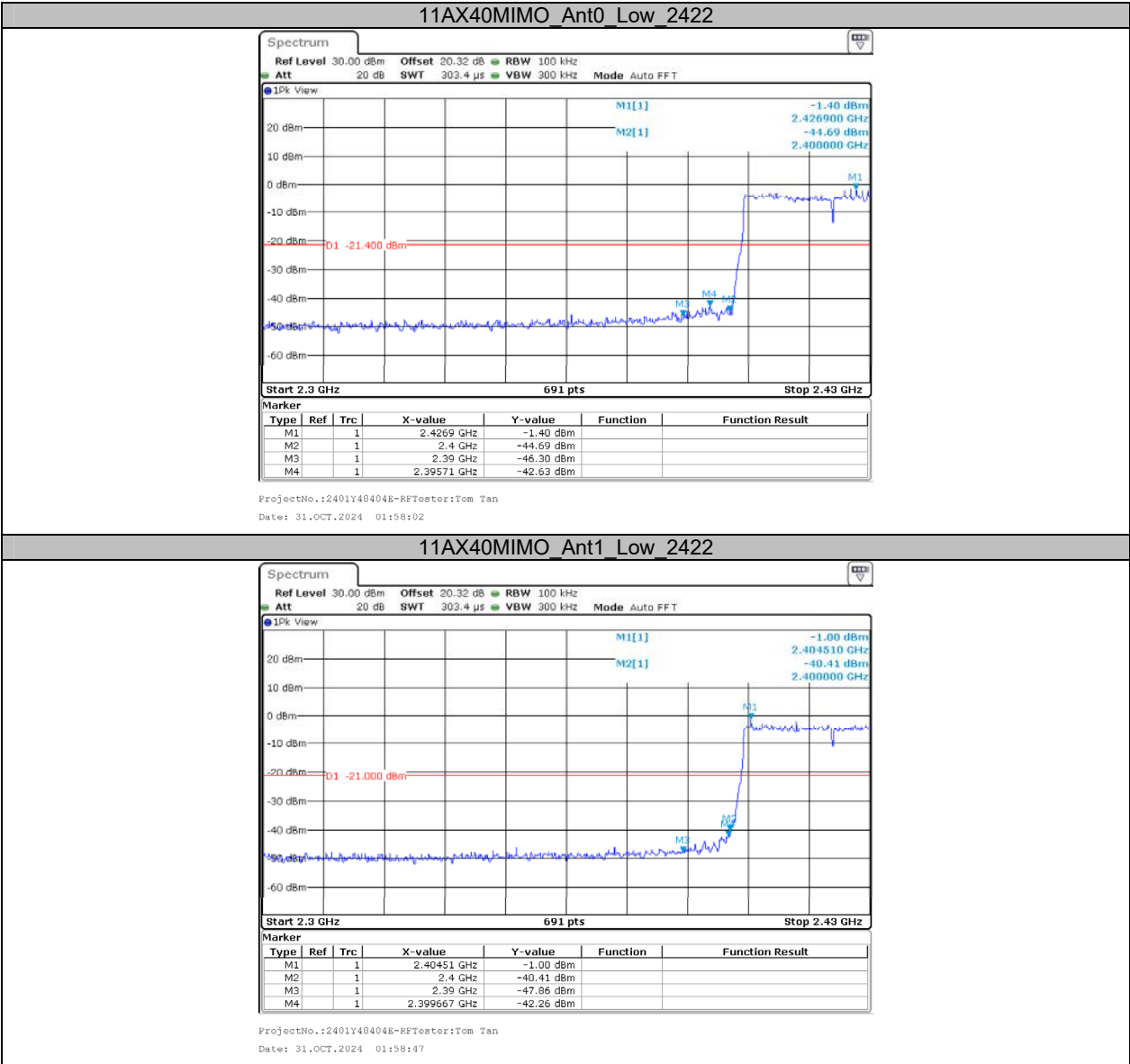


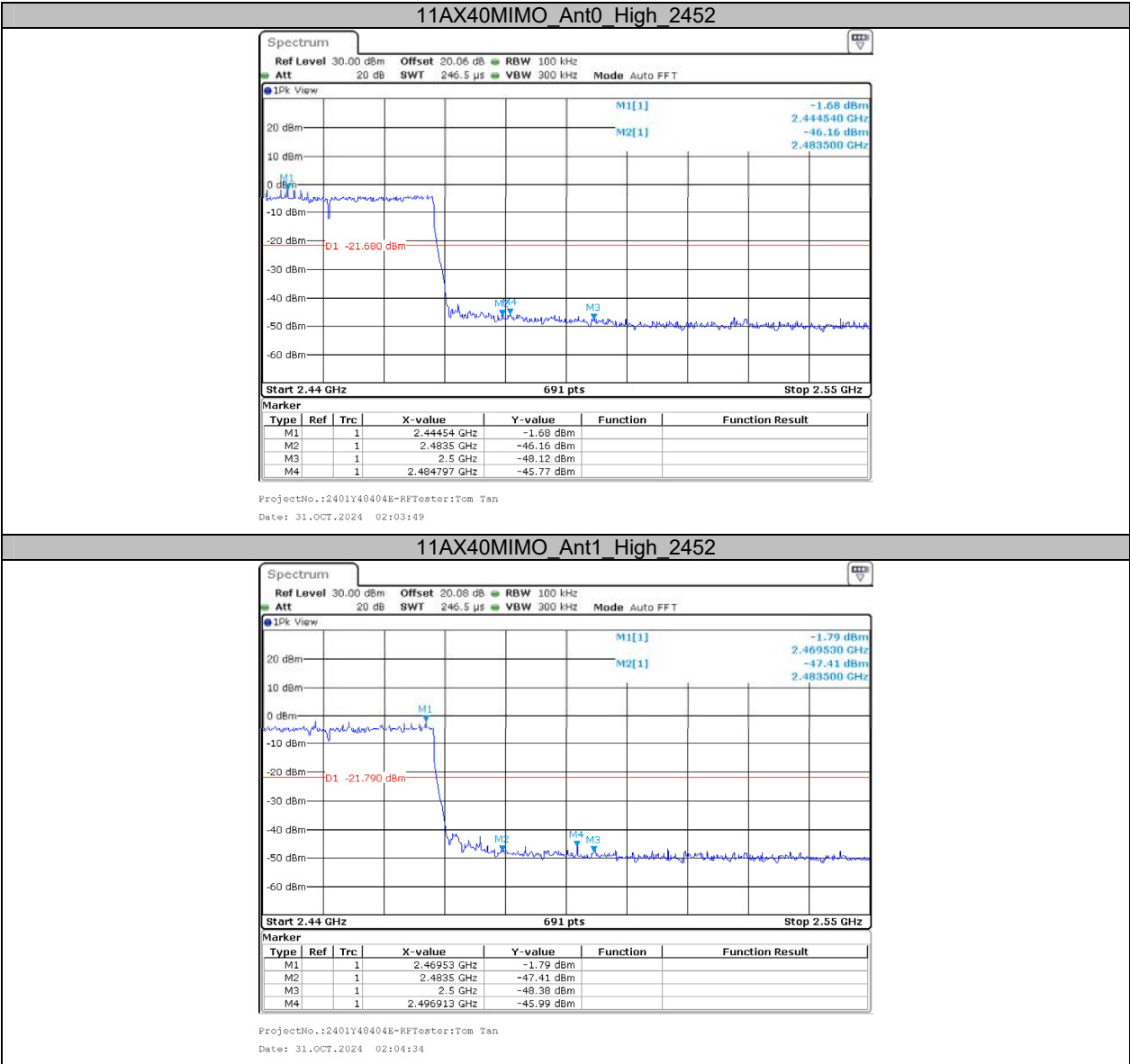












Appendix F: Duty Cycle**Test Result**

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[Hz]	VBW Setting [Hz]
11B	Ant0	2437	12.44	12.56	99.04	/	10
	Ant1	2437	12.44	12.56	99.04	/	10
11G	Ant0	2437	5.48	5.58	98.21	/	10
	Ant1	2437	5.48	5.58	98.21	/	10
11N20MIMO	Ant0	2437	5.38	5.48	98.18	/	10
	Ant1	2437	5.38	5.48	98.18	/	10
11N40MIMO	Ant0	2437	3.00	3.10	96.77	333	500
	Ant1	2437	3.00	3.10	96.77	333	500
11AX20MIMO	Ant0	2437	4.65	4.75	97.89	215	300
	Ant1	2437	4.62	4.72	97.88	216	300
11AX40MIMO	Ant0	2437	4.62	4.72	97.88	216	300
	Ant1	2437	4.63	4.73	97.89	216	300

Test Graphs



