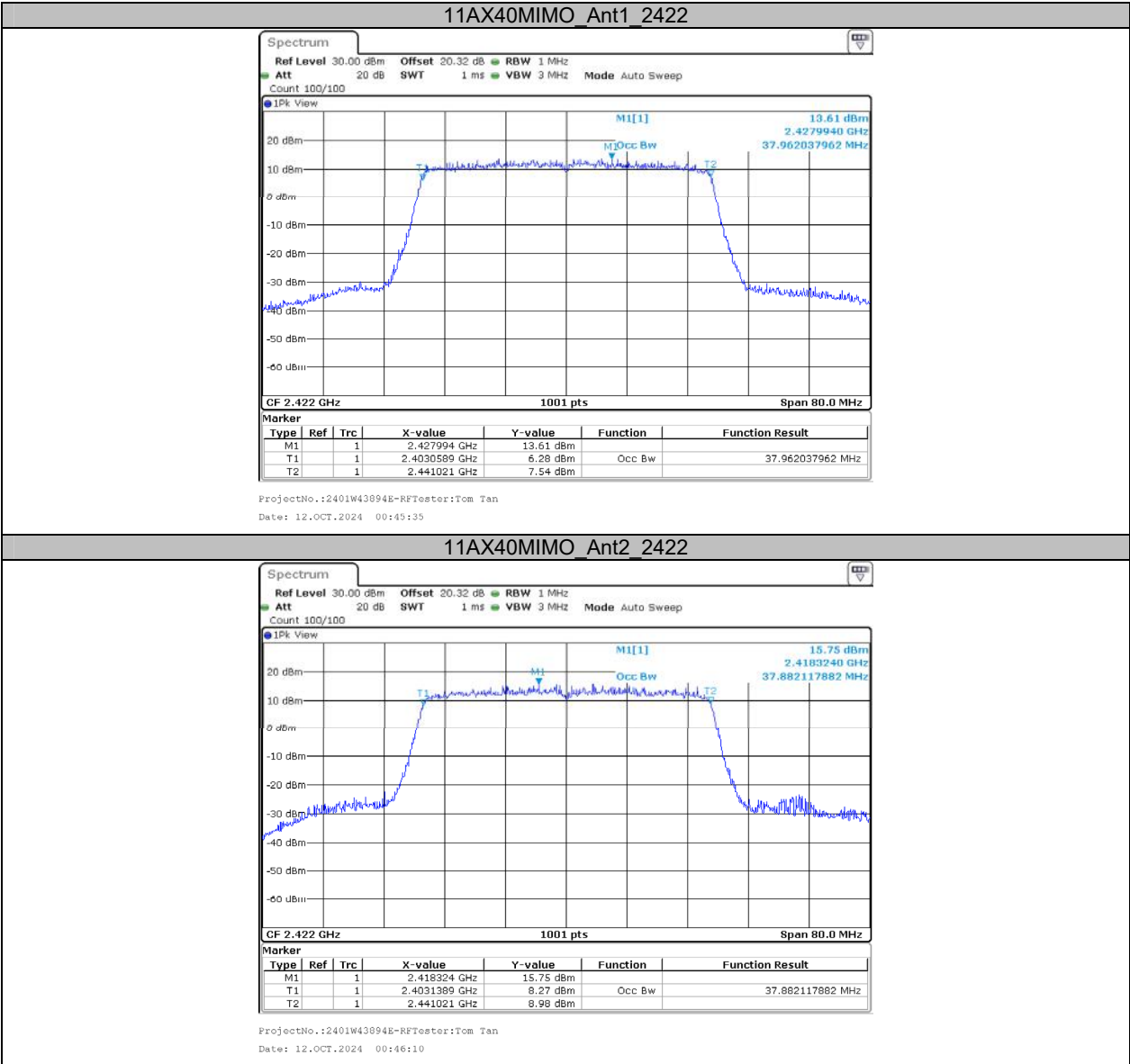
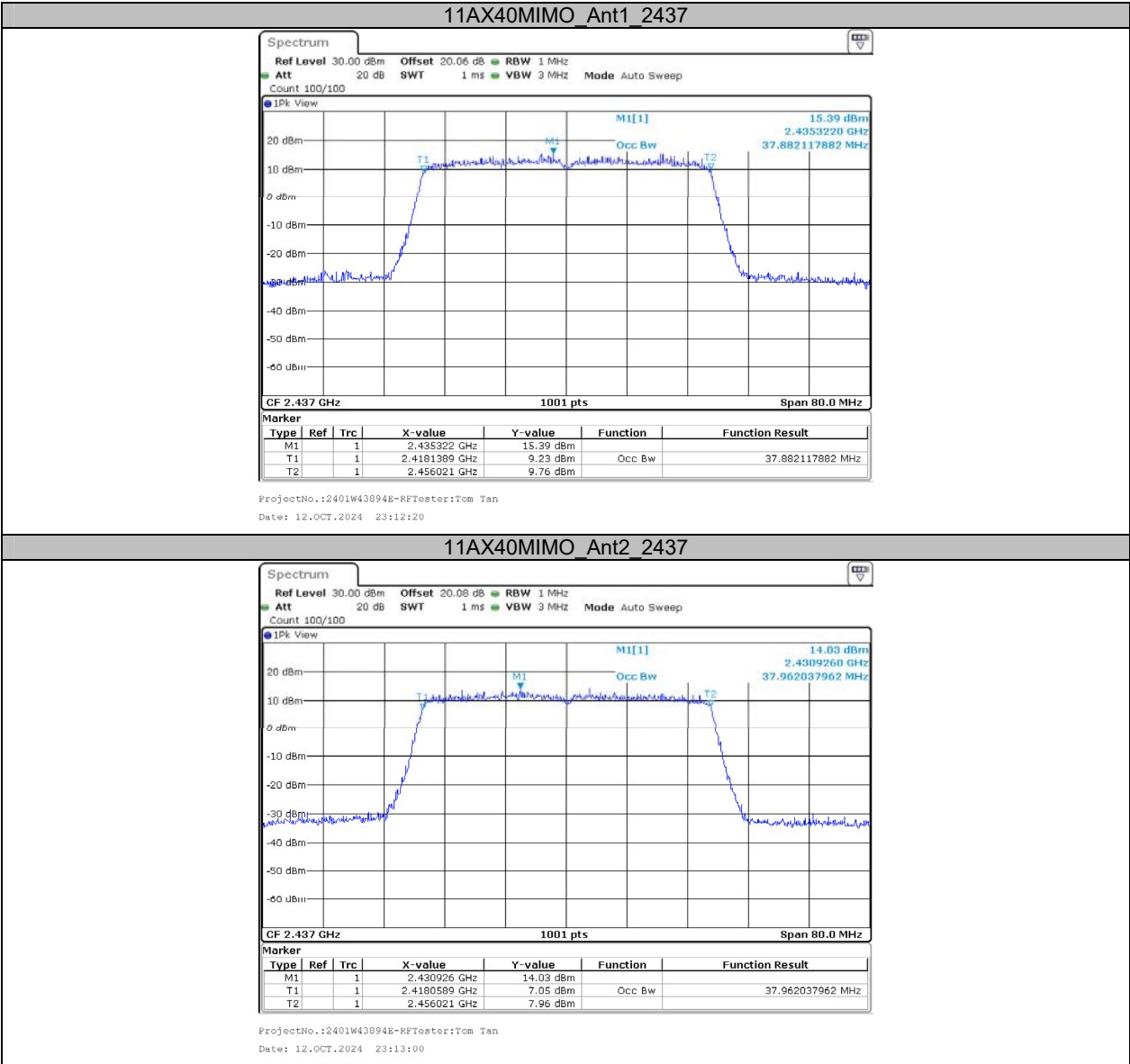
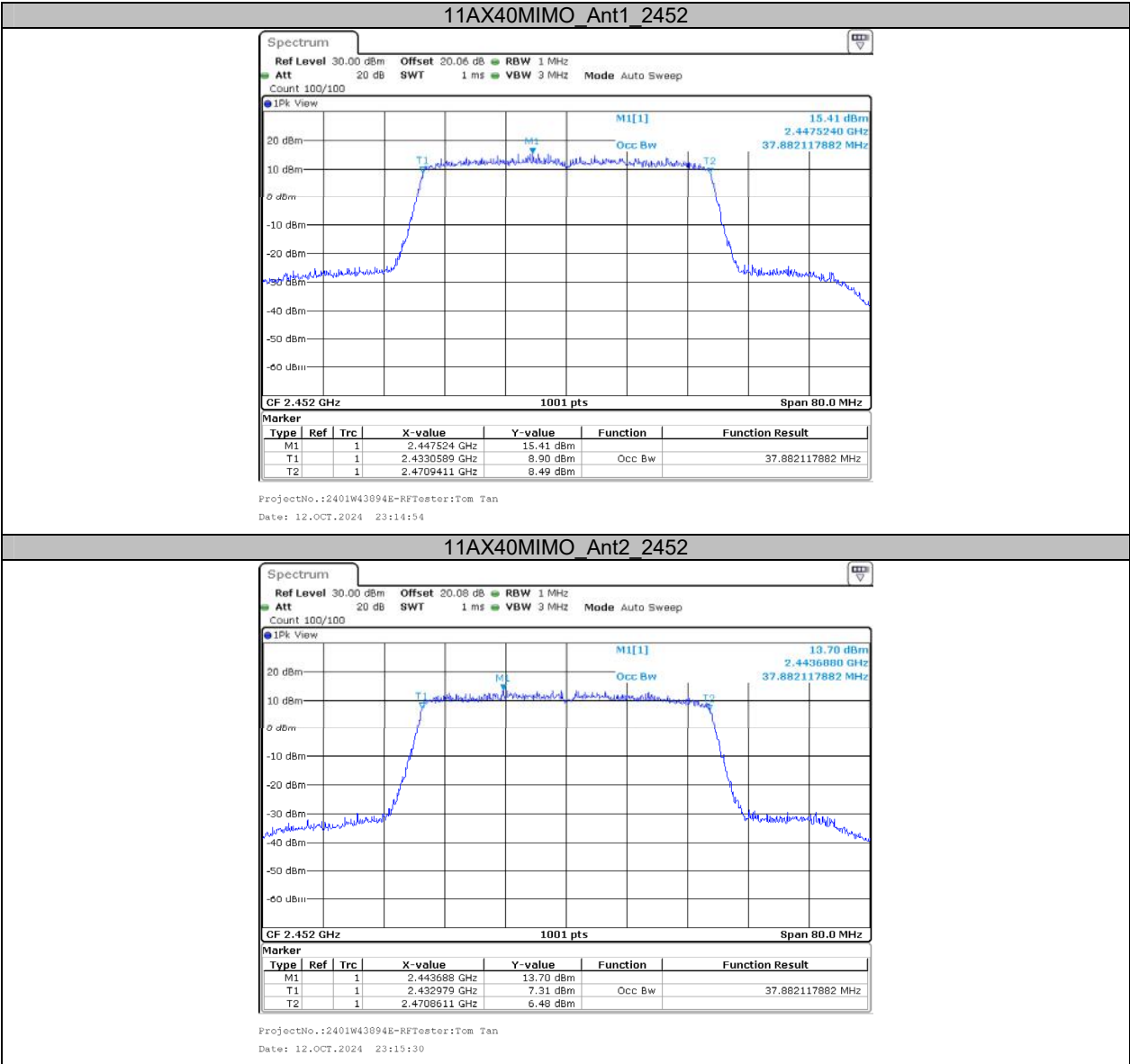








Appendix C: Maximum conducted output power**Test Result**

Test Mode	Antenna	Frequency [MHz]	Peak Power [dBm]	Conducted Limit [dBm]	Verdict
11B-CDD	Ant1	2412	21.34	≤30.00	PASS
	Ant2	2412	20.06	≤30.00	PASS
	total	2412	23.76	≤30.00	PASS
	Ant1	2437	20.03	≤30.00	PASS
	Ant2	2437	21.30	≤30.00	PASS
	total	2437	23.72	≤30.00	PASS
	Ant1	2462	19.82	≤30.00	PASS
	Ant2	2462	20.82	≤30.00	PASS
11G-CDD	total	2462	23.36	≤30.00	PASS
	Ant1	2412	24.07	≤30.00	PASS
	Ant2	2412	25.12	≤30.00	PASS
	total	2412	27.64	≤30.00	PASS
	Ant1	2437	23.65	≤30.00	PASS
	Ant2	2437	25.27	≤30.00	PASS
	total	2437	27.55	≤30.00	PASS
	Ant1	2462	23.46	≤30.00	PASS
11N20MIMO	Ant2	2462	24.61	≤30.00	PASS
	total	2462	27.08	≤30.00	PASS
	Ant1	2412	24.15	≤30.00	PASS
	Ant2	2412	25.27	≤30.00	PASS
	total	2412	27.76	≤30.00	PASS
	Ant1	2437	23.74	≤30.00	PASS
	Ant2	2437	25.38	≤30.00	PASS
	total	2437	27.65	≤30.00	PASS
11N40MIMO	total	2462	23.52	≤30.00	PASS
	Ant1	2462	24.90	≤30.00	PASS
	Ant2	2462	24.90	≤30.00	PASS
	total	2462	27.27	≤30.00	PASS
	Ant1	2422	24.13	≤30.00	PASS
	Ant2	2422	25.61	≤30.00	PASS
	total	2422	27.94	≤30.00	PASS
	Ant1	2437	23.92	≤30.00	PASS
11AX20MIMO	Ant2	2437	25.50	≤30.00	PASS
	total	2437	27.79	≤30.00	PASS
	Ant1	2452	23.86	≤30.00	PASS
	Ant2	2452	25.26	≤30.00	PASS
	total	2452	27.63	≤30.00	PASS
	Ant1	2412	25.90	≤30.00	PASS
	Ant2	2412	26.99	≤30.00	PASS
	total	2412	29.49	≤30.00	PASS
11AX40MIMO	Ant1	2437	25.38	≤30.00	PASS
	Ant2	2437	27.10	≤30.00	PASS
	total	2437	29.33	≤30.00	PASS
	Ant1	2462	25.22	≤30.00	PASS
	Ant2	2462	26.56	≤30.00	PASS
	total	2462	28.95	≤30.00	PASS
	Ant1	2422	25.69	≤30.00	PASS
	Ant2	2422	27.19	≤30.00	PASS
11AX40MIMO	total	2422	29.51	≤30.00	PASS
	Ant1	2437	26.84	≤30.00	PASS
	Ant2	2437	25.52	≤30.00	PASS
	total	2437	29.24	≤30.00	PASS

	Ant1	2452	26.65	≤30.00	PASS
	Ant2	2452	25.38	≤30.00	PASS
	total	2452	29.07	≤30.00	PASS

Note1:

The EUT employ CDD for MIMO

$Directional\ Gain = G_{ANT} + Array\ Gain$, $G_{ANT} = 2.5\text{dBi}$

For Output Power Measurement,

For 802.11b/g mode, $Array\ Gain = 0\text{dB}$ for $N_{ANT} \leq 4$

$Directional\ Gain = 2.5\text{dBi} + 0\text{dB} = 2.5\text{dBi} < 6\text{dBi}$

For 802.11n/ax mode, the device support beam-forming function.

$Directional\ Gain = G_{ANT} + 10 \cdot \log(2/1) = 5.51\text{dBi} < 6\text{dBi}$

Note 2: Non-Beam Forming mode share the same power with the Beam Forming mode.

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

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B-CDD	Ant1	2412	-3.62	≤8.00	PASS
	Ant2	2412	-5.22	≤8.00	PASS
	total	2412	-1.34	≤8.00	PASS
	Ant1	2437	-6.01	≤8.00	PASS
	Ant2	2437	-4.68	≤8.00	PASS
	total	2437	-2.28	≤8.00	PASS
	Ant1	2462	-6.90	≤8.00	PASS
	Ant2	2462	-5.54	≤8.00	PASS
	total	2462	-3.16	≤8.00	PASS
11G-CDD	Ant1	2412	-8.42	≤8.00	PASS
	Ant2	2412	-7.72	≤8.00	PASS
	total	2412	-5.05	≤8.00	PASS
	Ant1	2437	-9.78	≤8.00	PASS
	Ant2	2437	-7.90	≤8.00	PASS
	total	2437	-5.73	≤8.00	PASS
	Ant1	2462	-9.99	≤8.00	PASS
	Ant2	2462	-8.67	≤8.00	PASS
	total	2462	-6.27	≤8.00	PASS
11N20MIMO	Ant1	2412	-8.24	≤8.00	PASS
	Ant2	2412	-5.88	≤8.00	PASS
	total	2412	-3.89	≤8.00	PASS
	Ant1	2437	-8.43	≤8.00	PASS
	Ant2	2437	-6.88	≤8.00	PASS
	total	2437	-4.58	≤8.00	PASS
	Ant1	2462	-8.93	≤8.00	PASS
	Ant2	2462	-7.35	≤8.00	PASS
	total	2462	-5.06	≤8.00	PASS
11N40MIMO	Ant1	2422	-10.61	≤8.00	PASS
	Ant2	2422	-8.48	≤8.00	PASS
	total	2422	-6.41	≤8.00	PASS
	Ant1	2437	-11.39	≤8.00	PASS
	Ant2	2437	-8.98	≤8.00	PASS
	total	2437	-7.01	≤8.00	PASS
	Ant1	2452	-11.69	≤8.00	PASS
	Ant2	2452	-9.55	≤8.00	PASS
	total	2452	-7.48	≤8.00	PASS
11AX20MIMO	Ant1	2412	-7.60	≤8.00	PASS
	Ant2	2412	-7.46	≤8.00	PASS
	total	2412	-4.52	≤8.00	PASS
	Ant1	2437	-8.25	≤8.00	PASS
	Ant2	2437	-8.52	≤8.00	PASS
	total	2437	-5.37	≤8.00	PASS
	Ant1	2462	-7.79	≤8.00	PASS
	Ant2	2462	-8.48	≤8.00	PASS
	total	2462	-5.11	≤8.00	PASS
11AX40MIMO	Ant1	2422	-10.35	≤8.00	PASS
	Ant2	2422	-10.90	≤8.00	PASS
	total	2422	-7.61	≤8.00	PASS
	Ant1	2437	-10.19	≤8.00	PASS
	Ant2	2437	-10.95	≤8.00	PASS
	total	2437	-7.54	≤8.00	PASS

	Ant1	2452	-11.17	≤8.00	PASS
	Ant2	2452	-10.61	≤8.00	PASS
	total	2452	-7.87	≤8.00	PASS

Note1:

The EUT employ CDD for MIMO

Directional Gain = $G_{ANT} + \text{Array Gain}$, $G_{ANT} = 2.5\text{dBi}$

For PSD Measurement,

For 802.11b/g mode, *Array Gain* = $10 \cdot \log N_{ANT} = 10 \cdot \log 2 = 3.01\text{dB}$

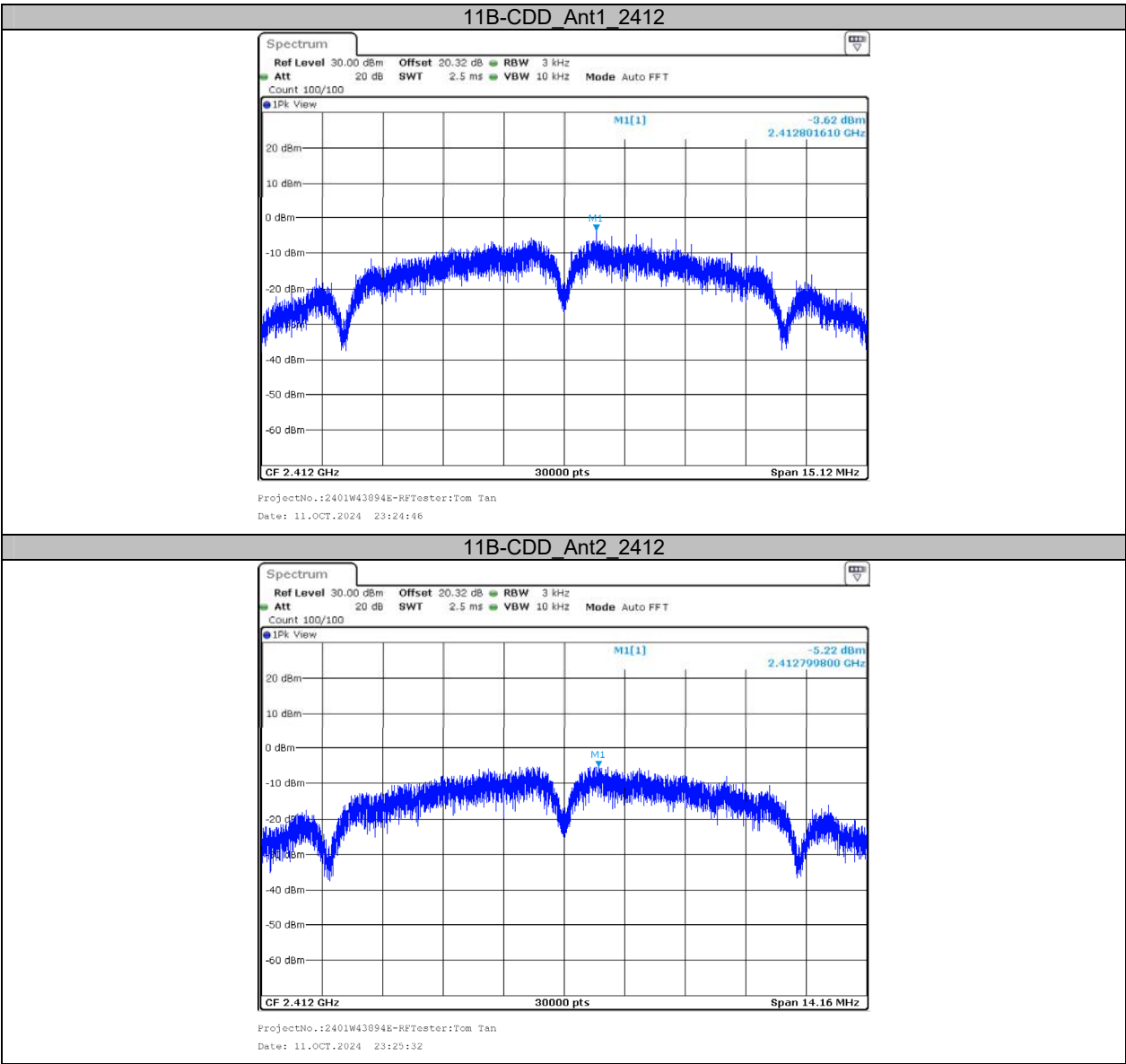
Directional Gain = $2.5\text{dBi} + 3\text{dB} = 5.51\text{dBi} < 6\text{dBi}$

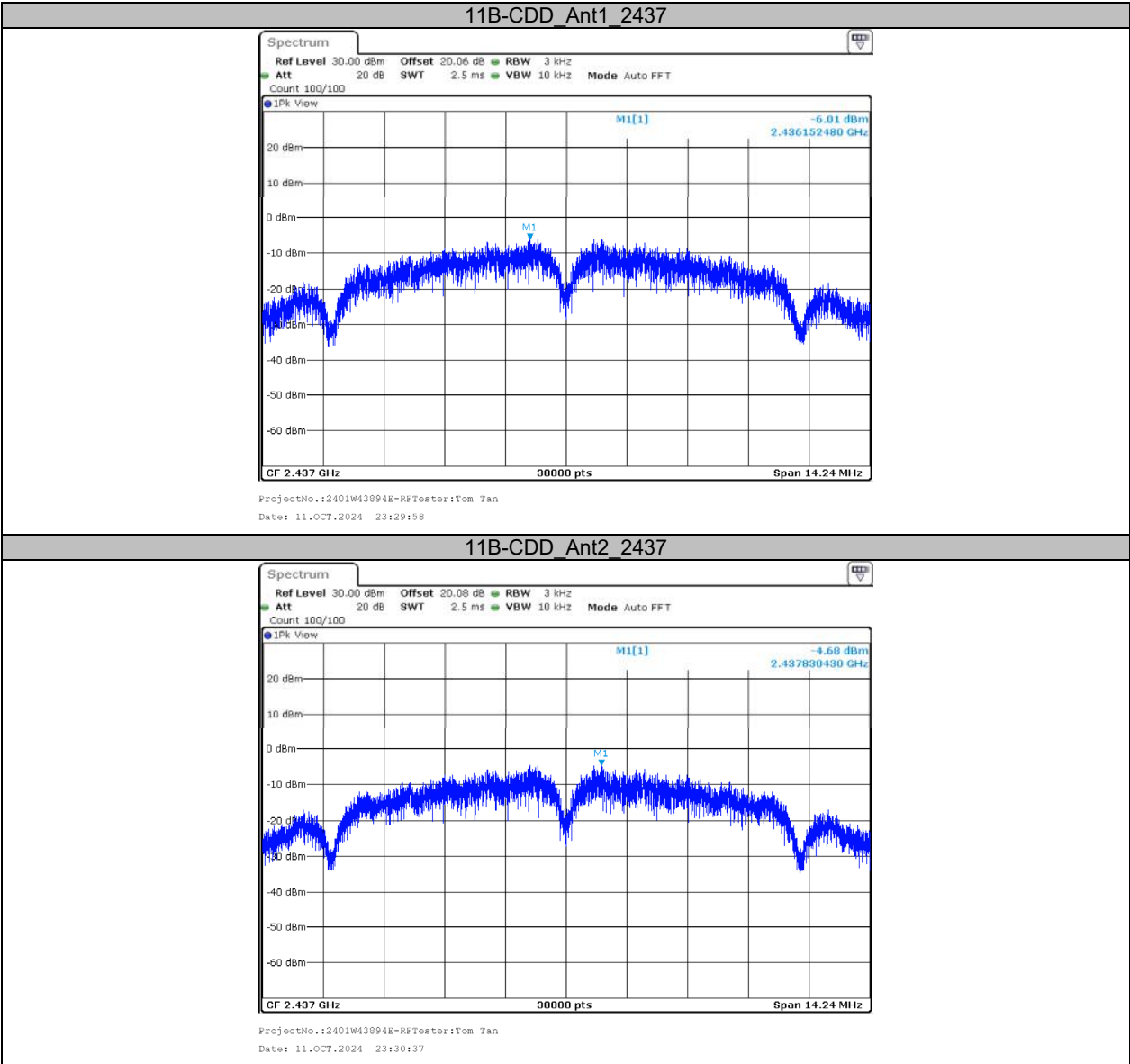
For 802.11n/ax mode, the device support beam-forming function.

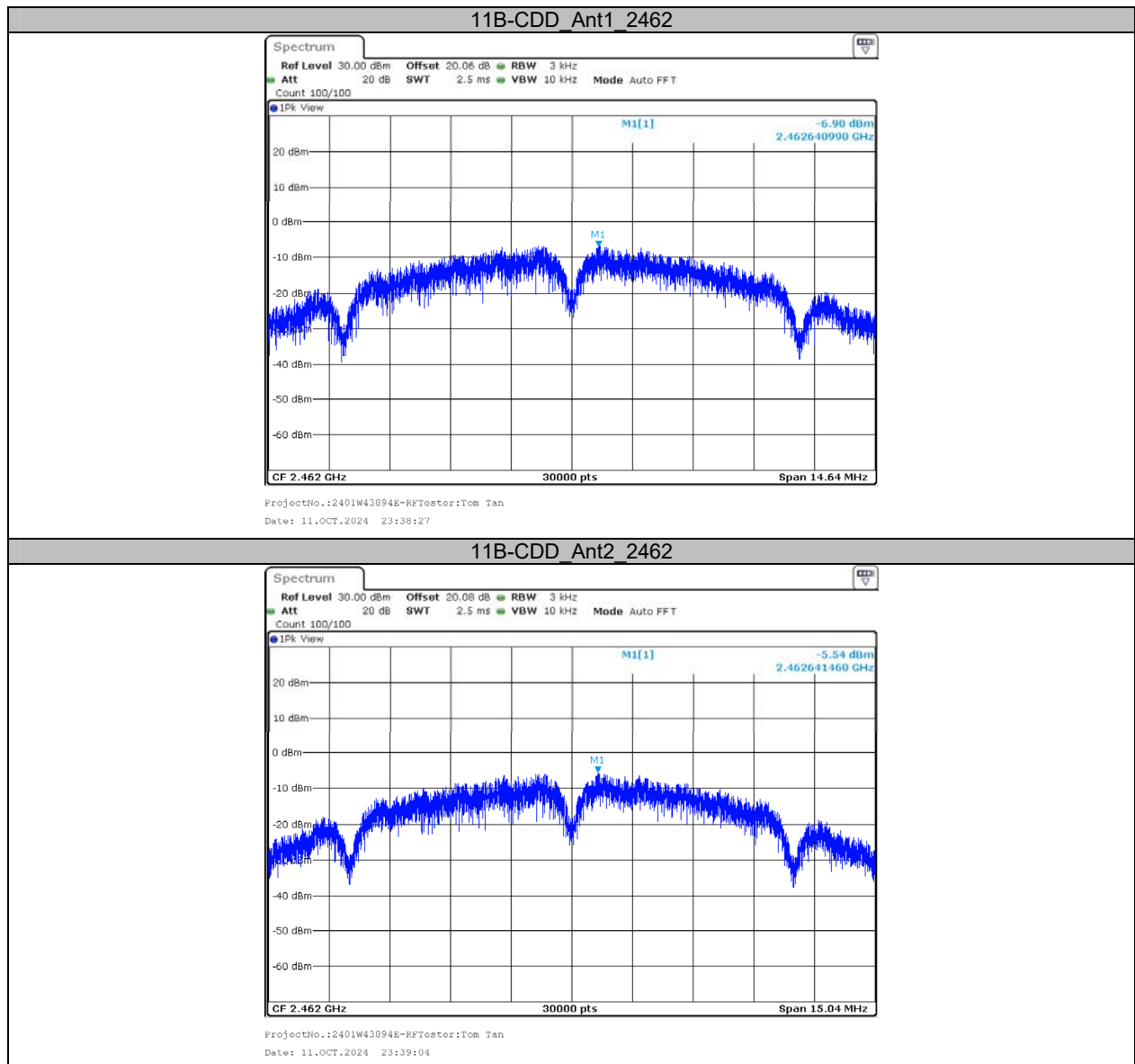
Directional gain = $G_{ANT} + 10 \cdot \log(2/1) = 5.51\text{dBi} < 6\text{dBi}$

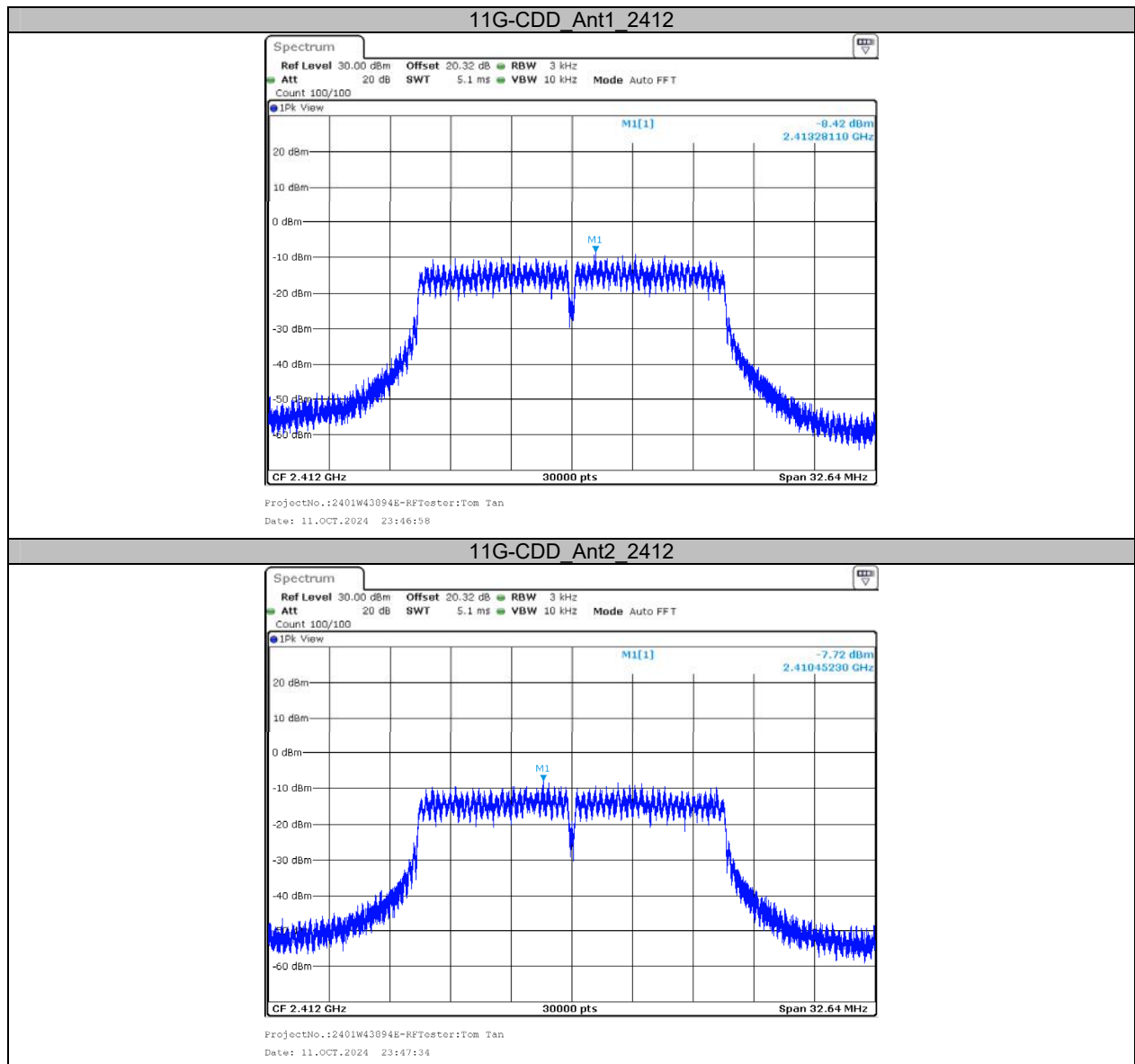
Note 2: Non-Beam Forming mode share the same power with the Beam Forming mode.

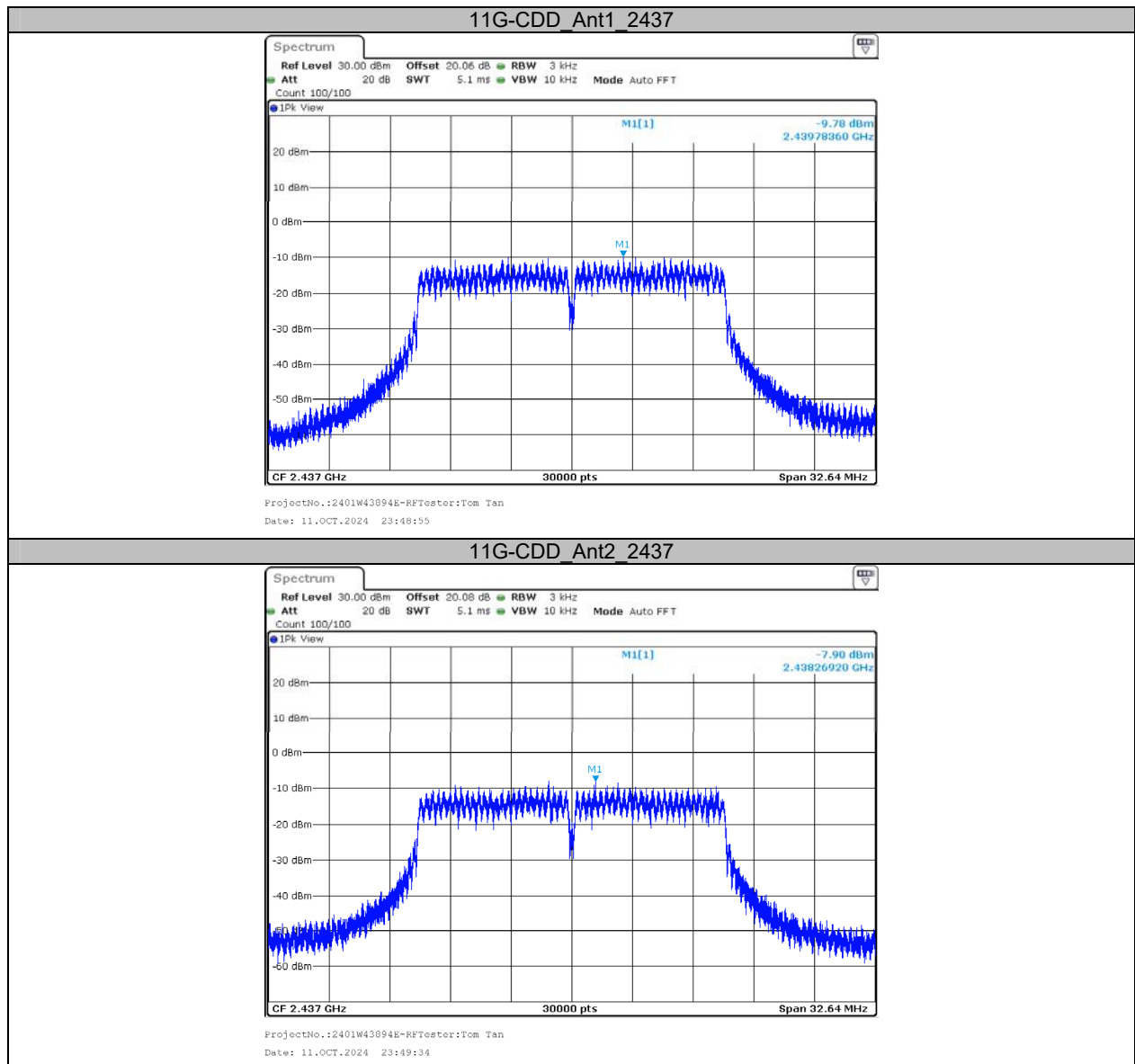
Test Graphs

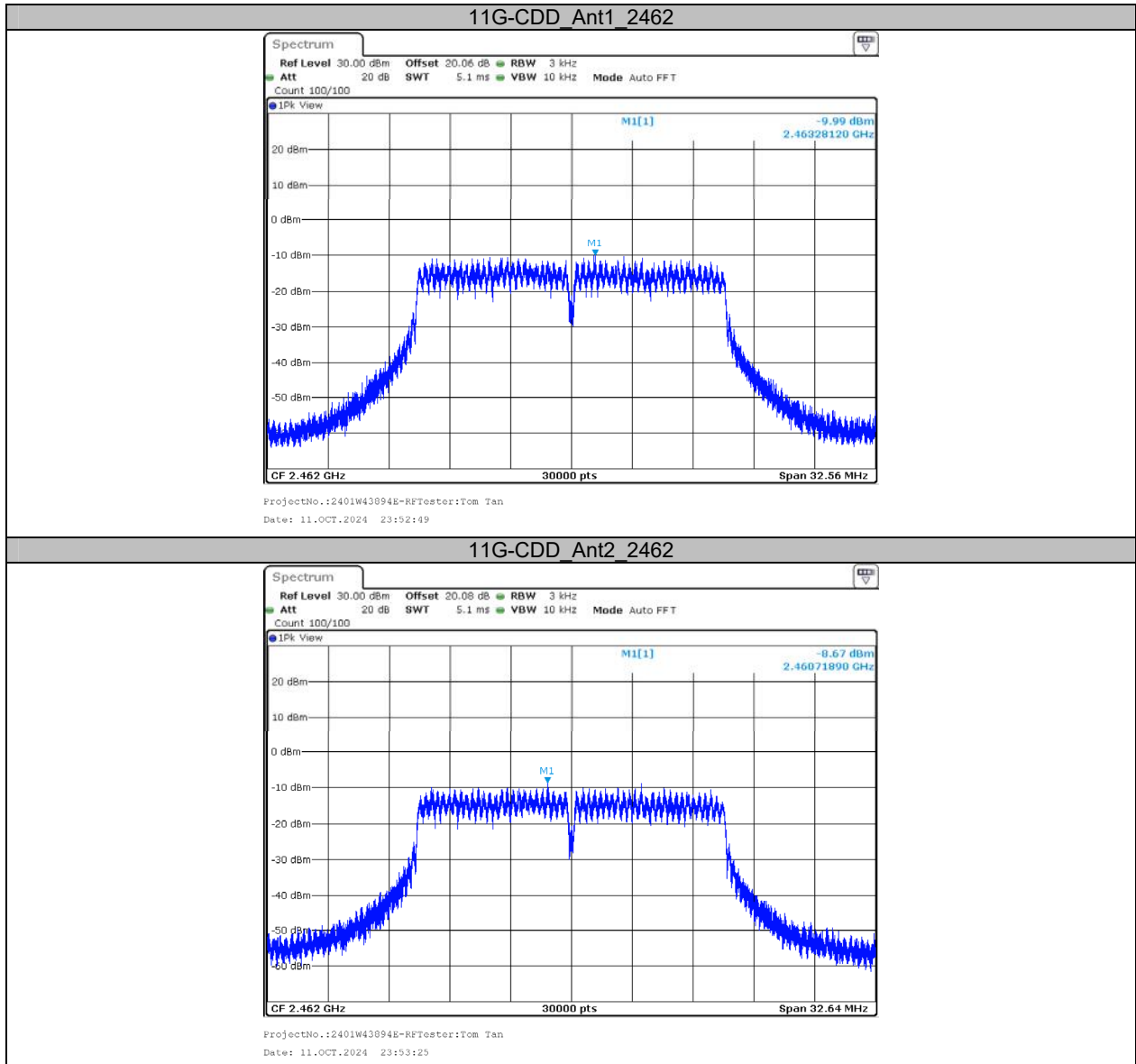


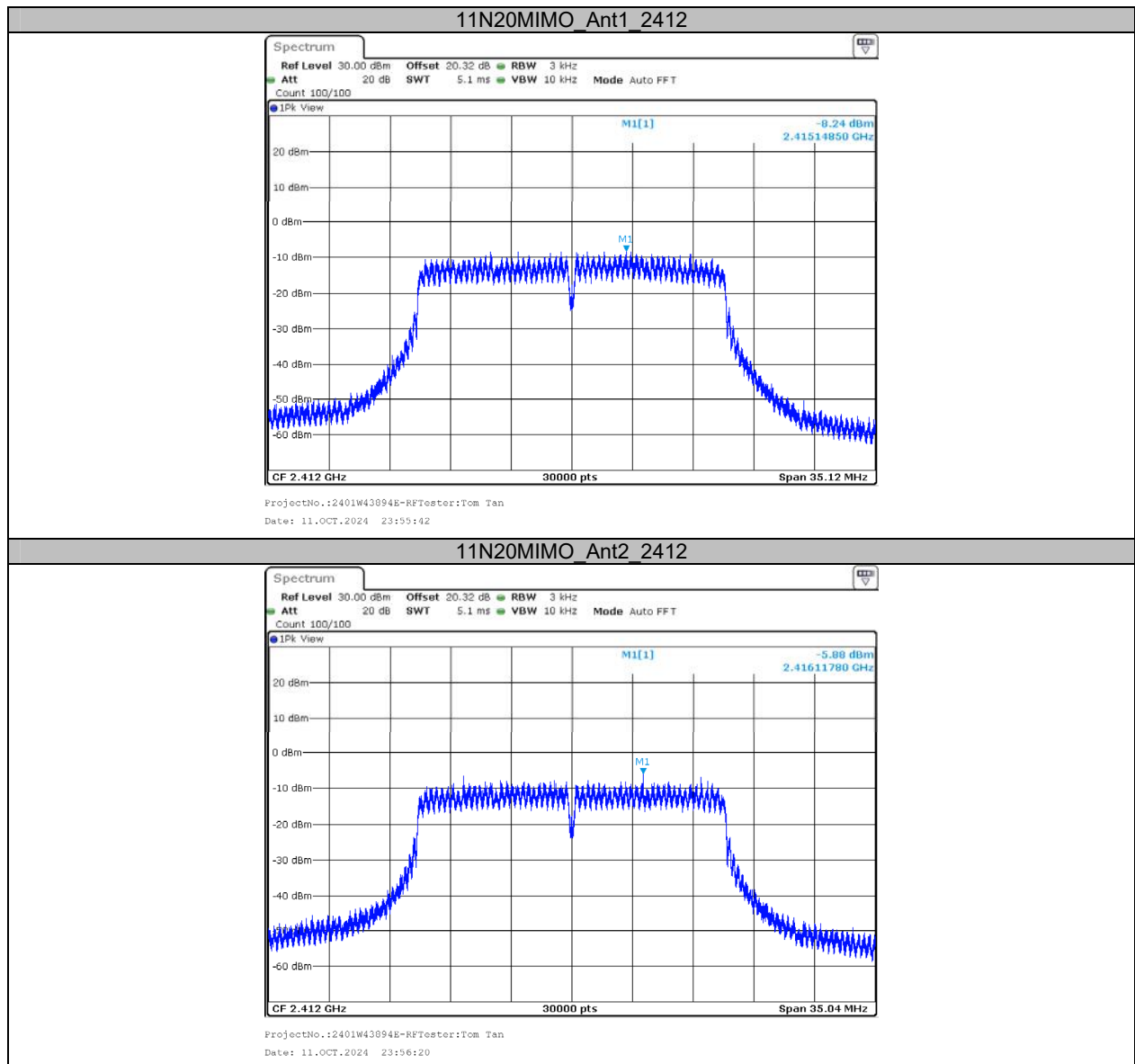


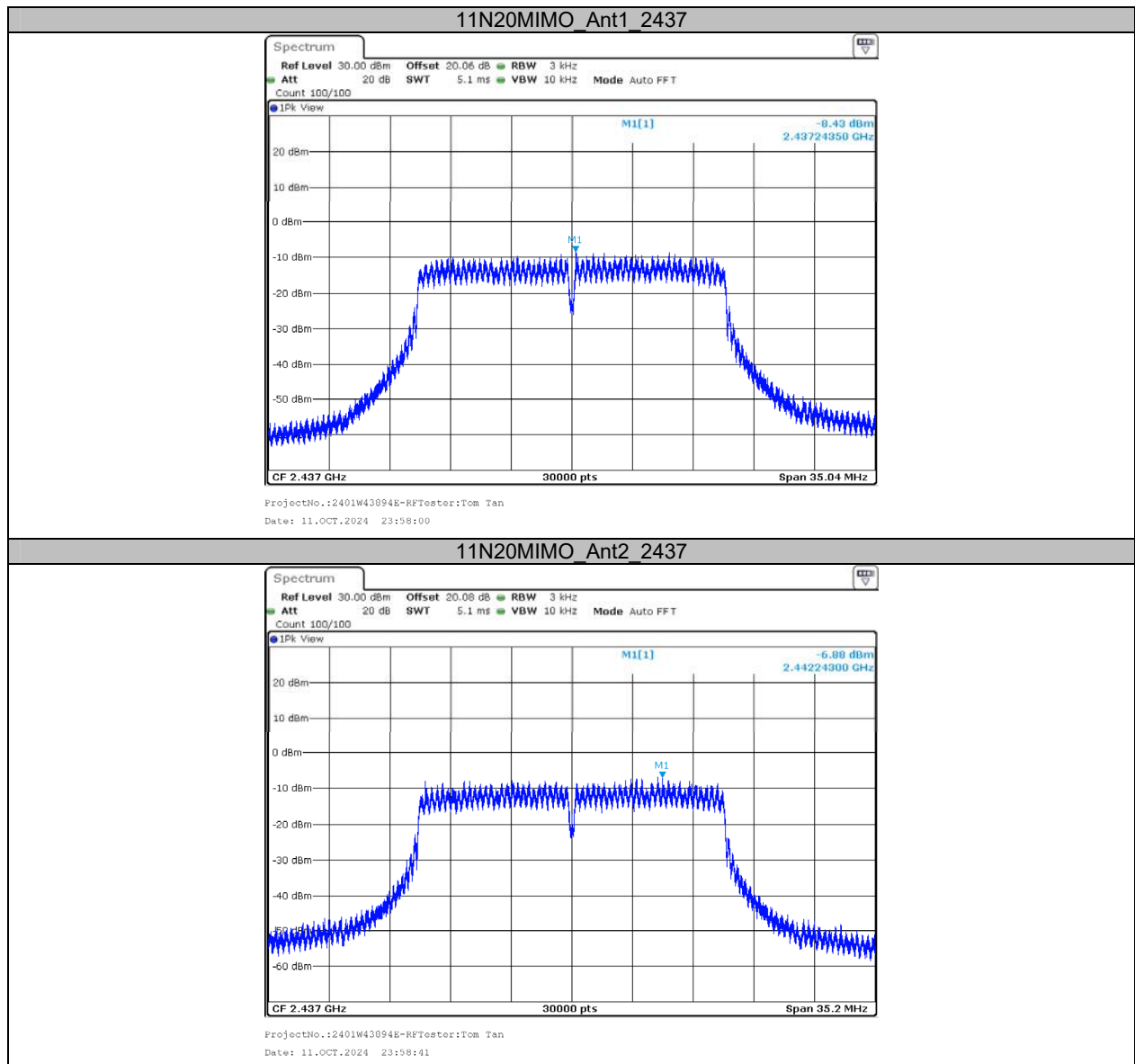


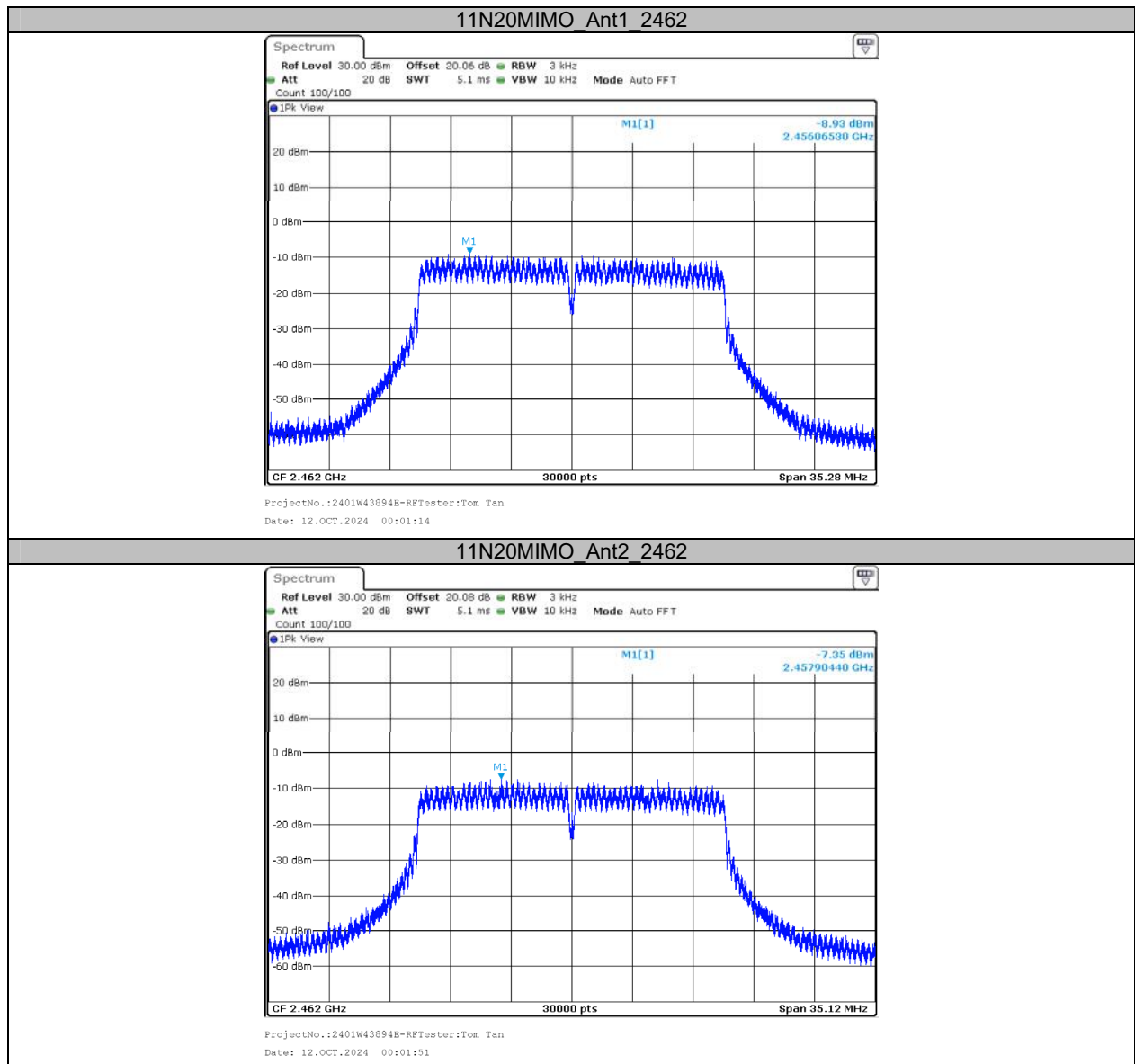


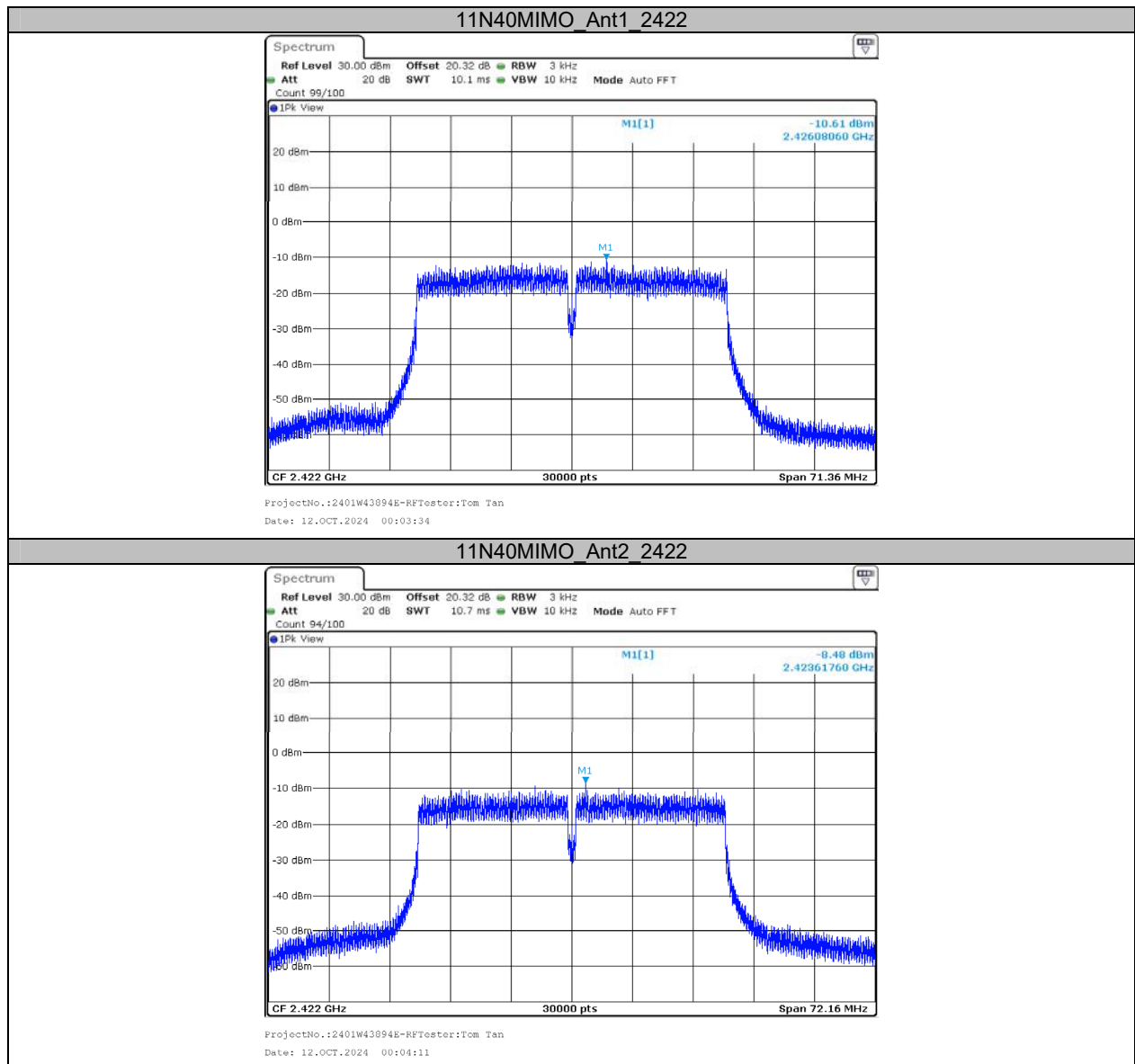


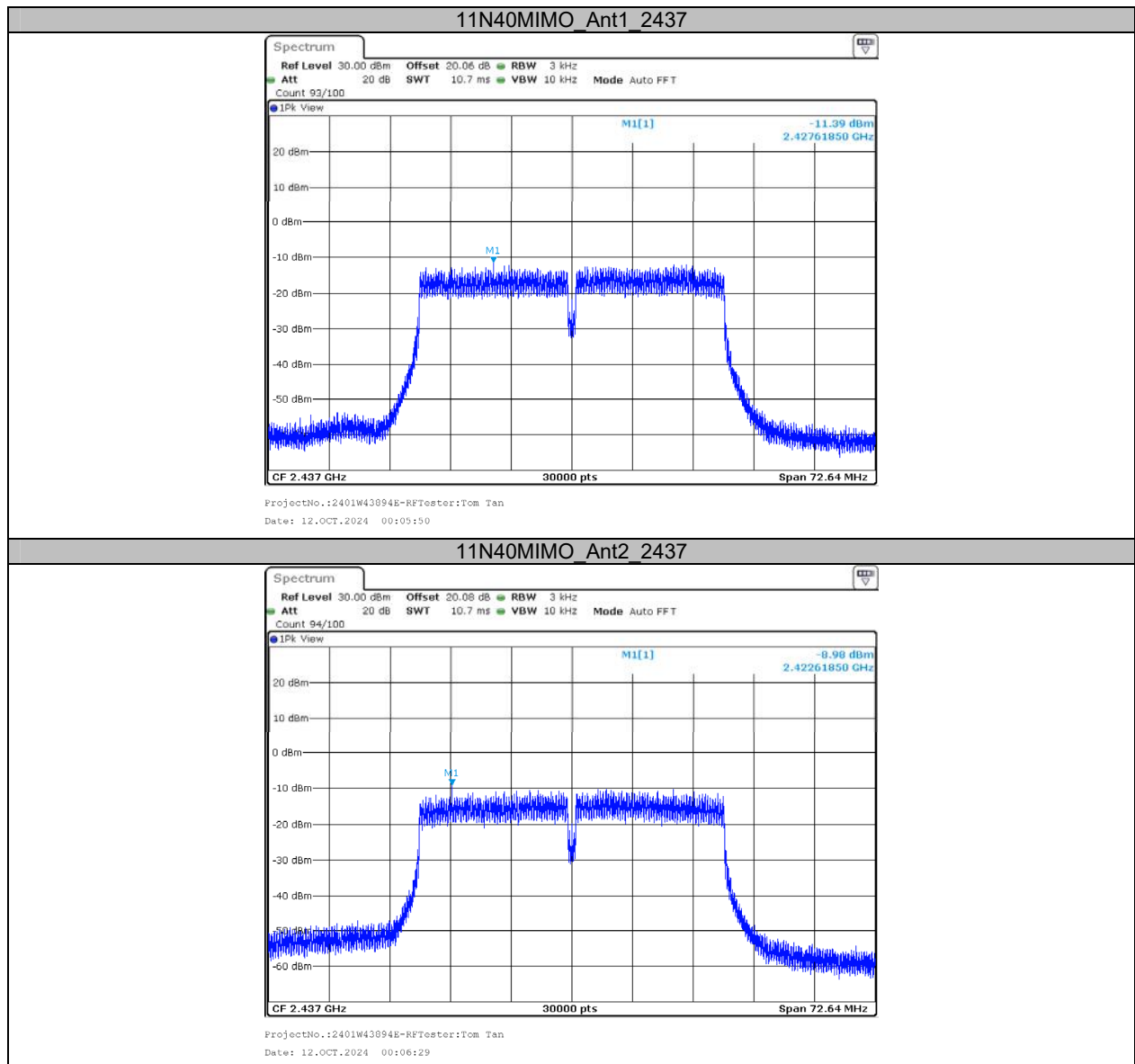


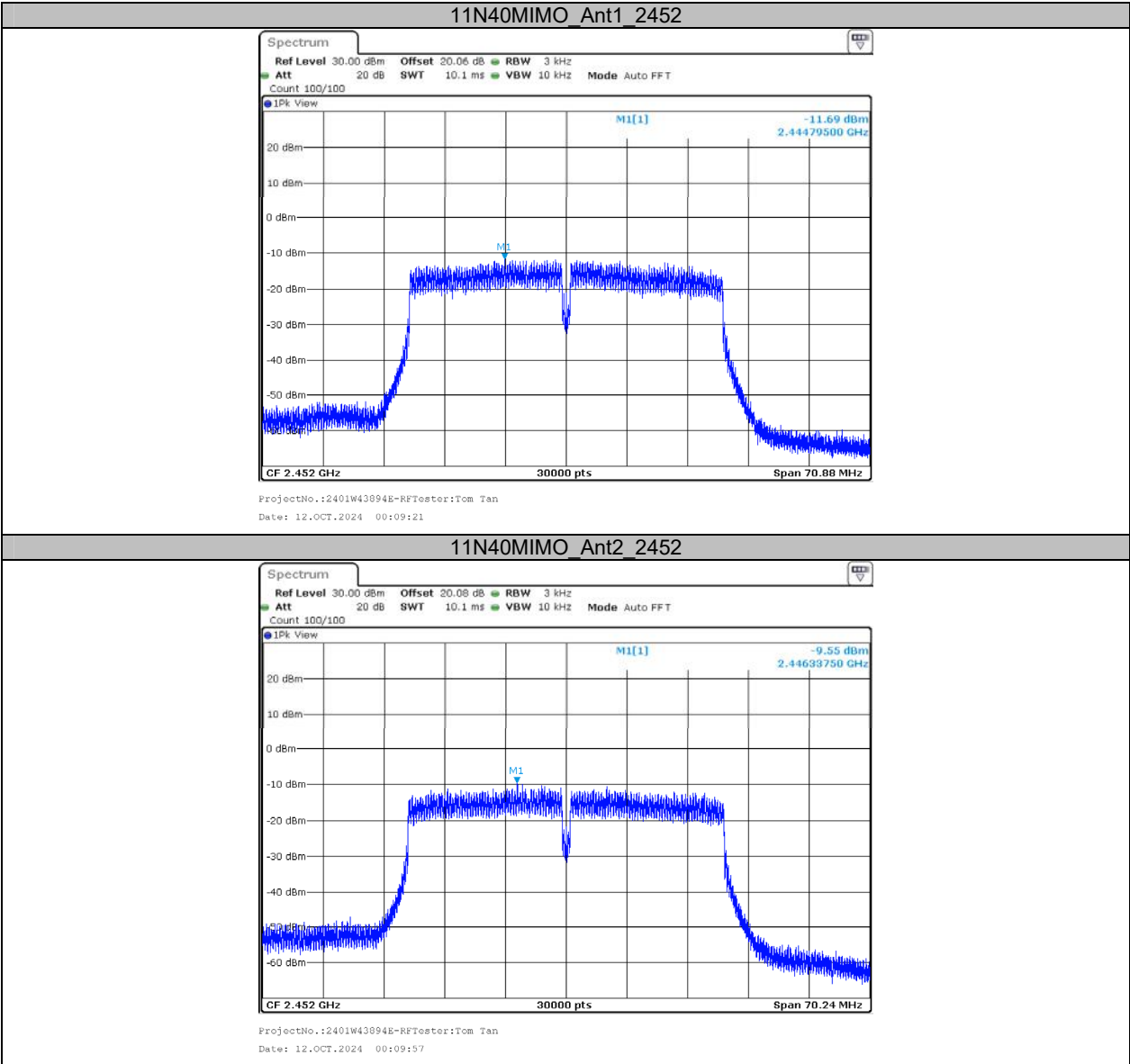


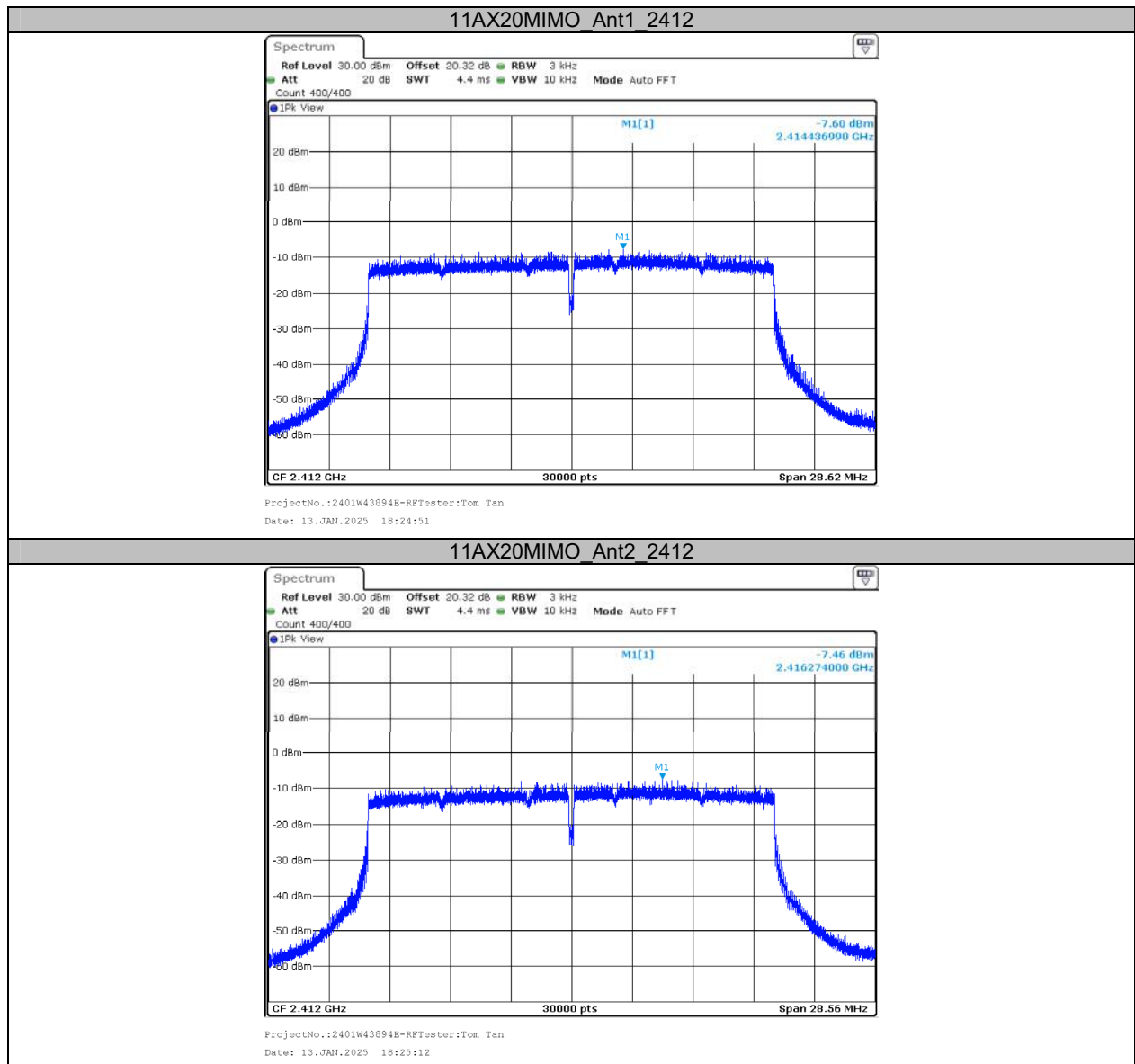


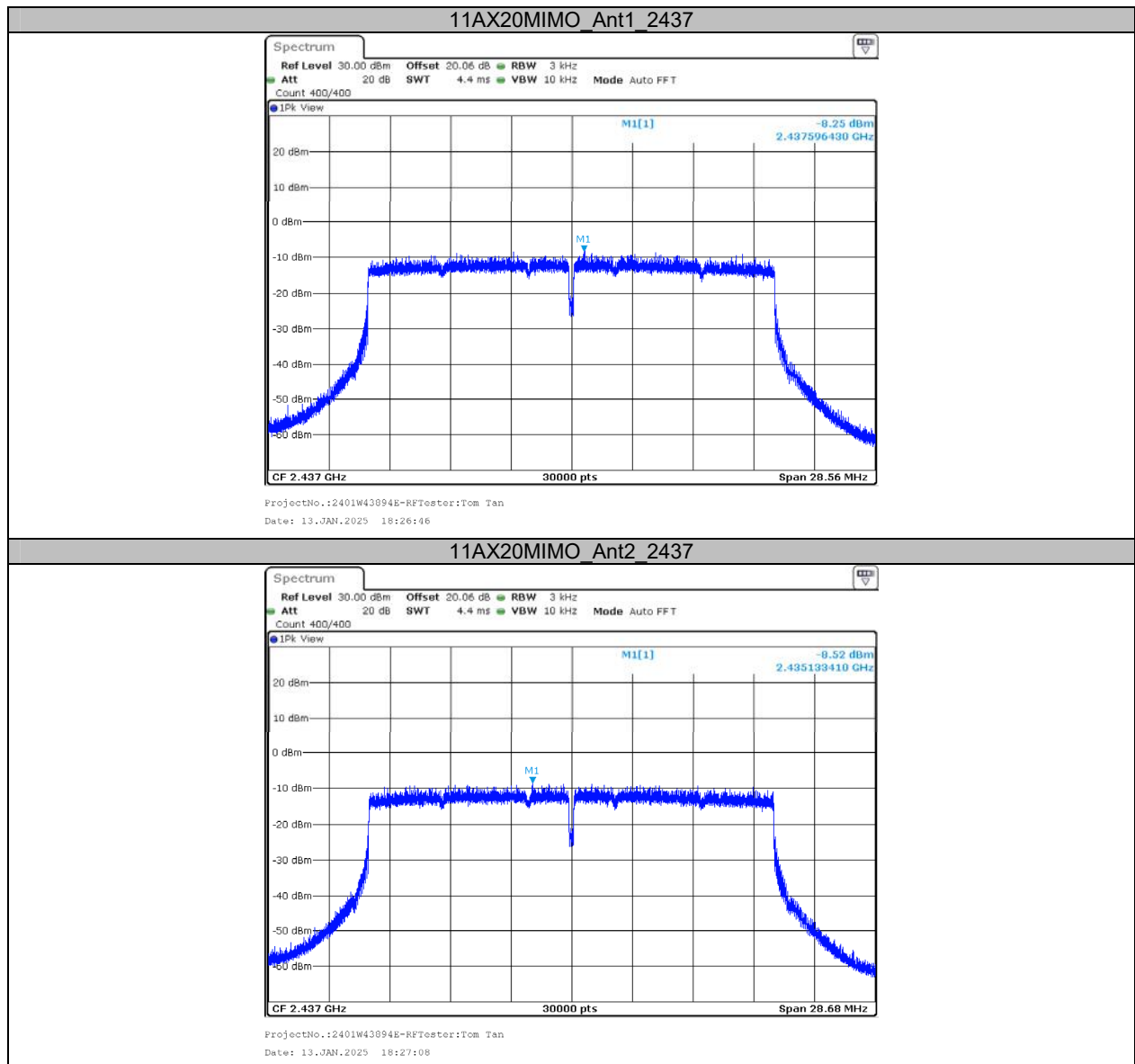


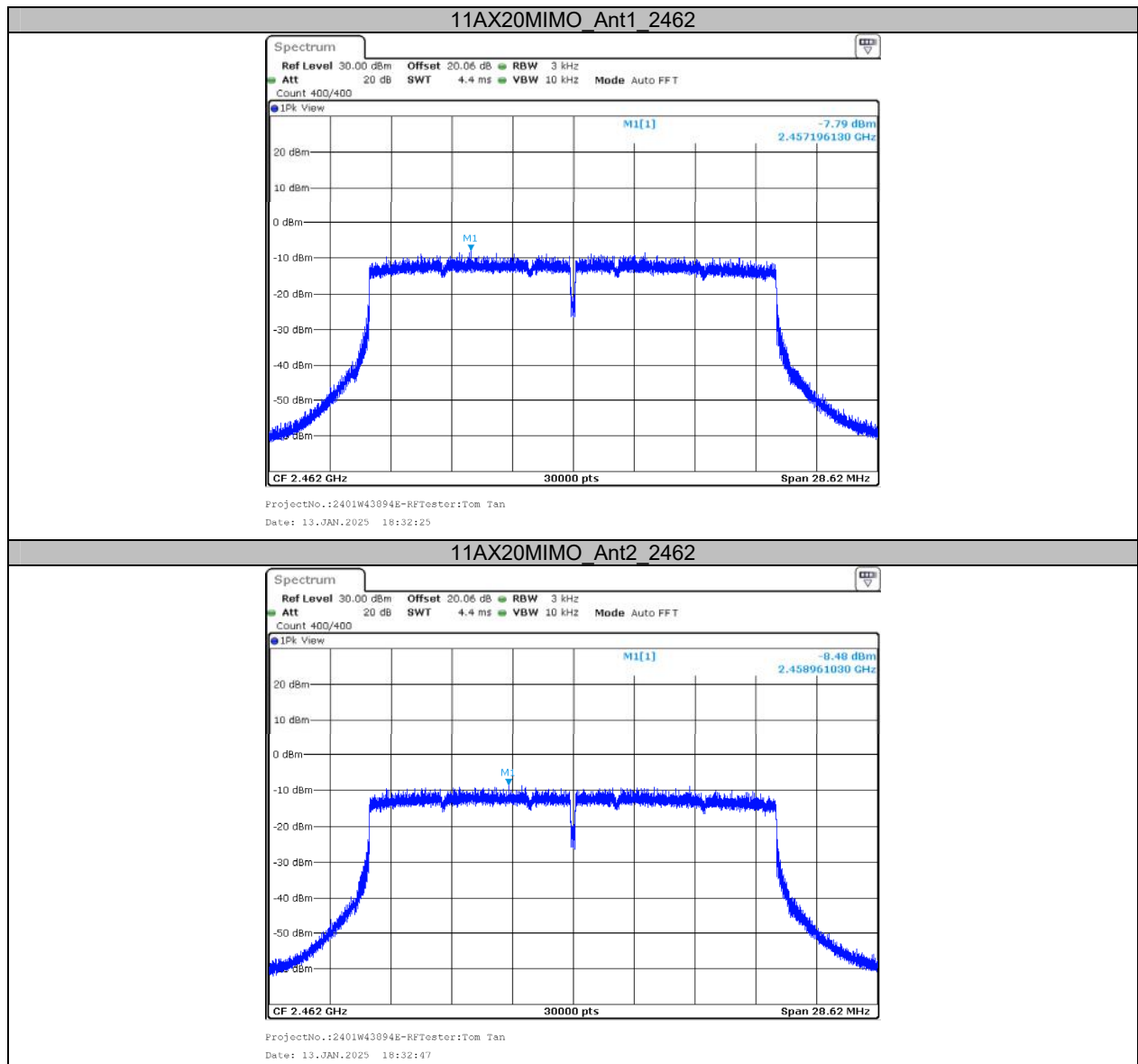


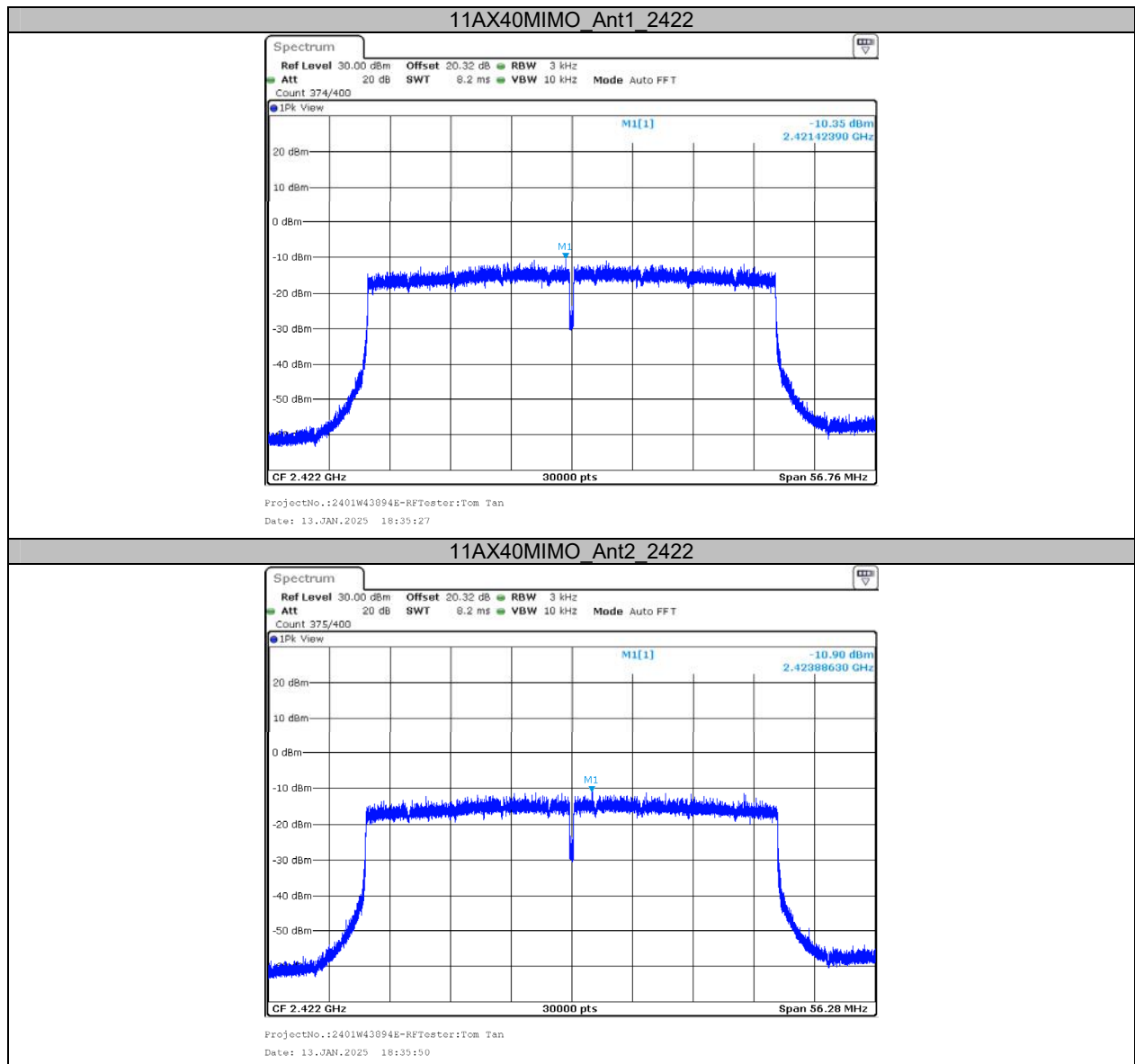


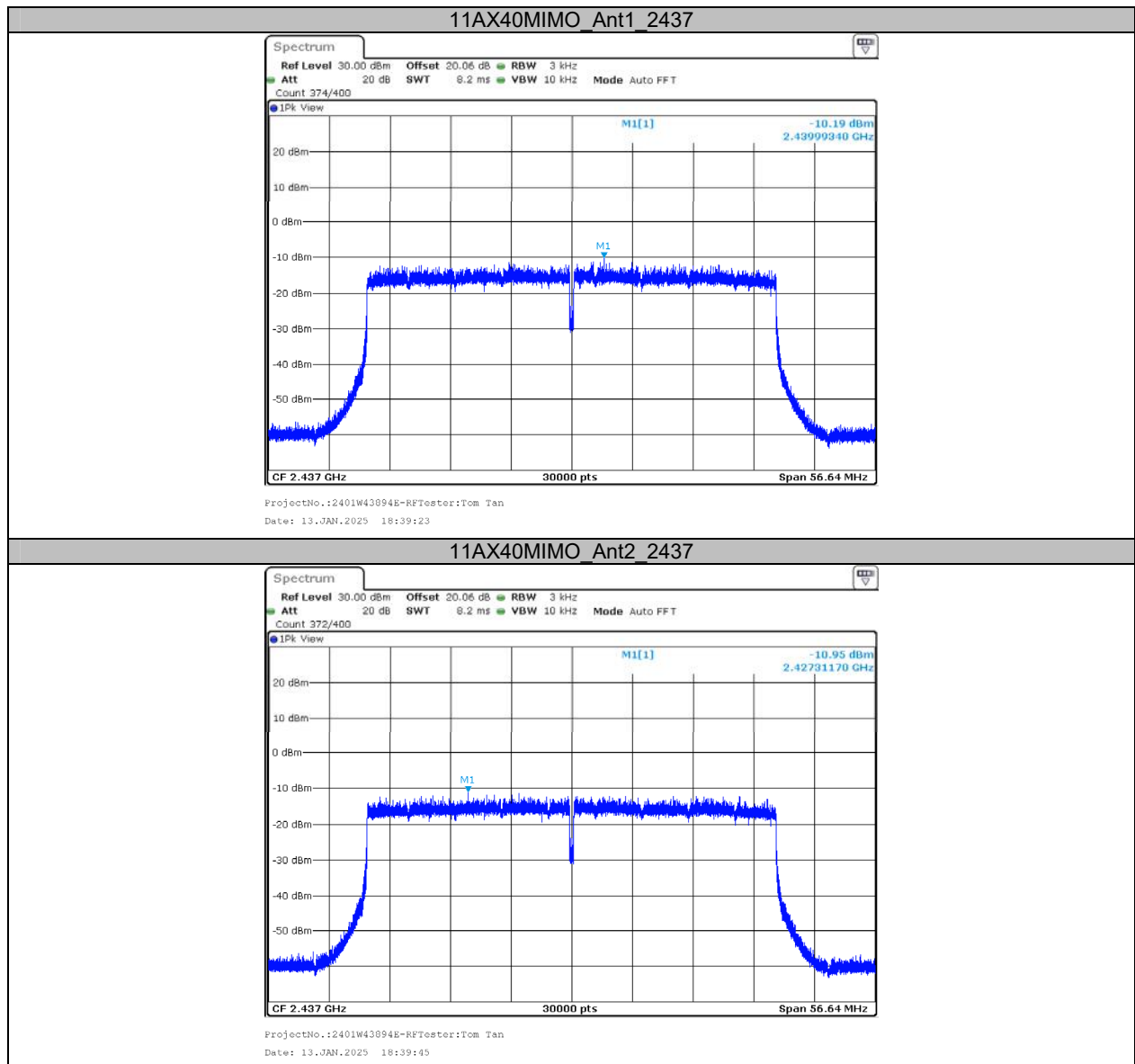


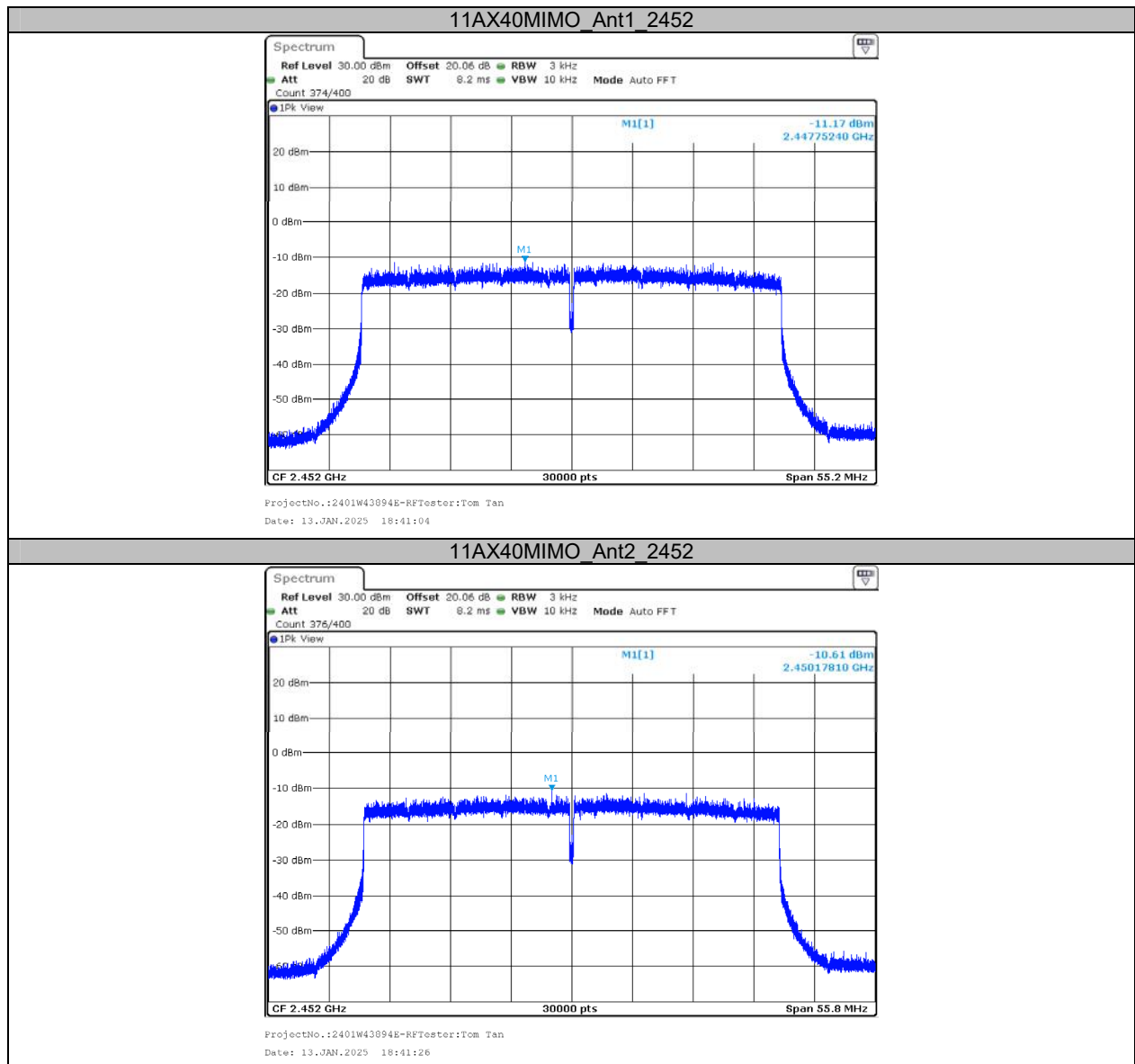






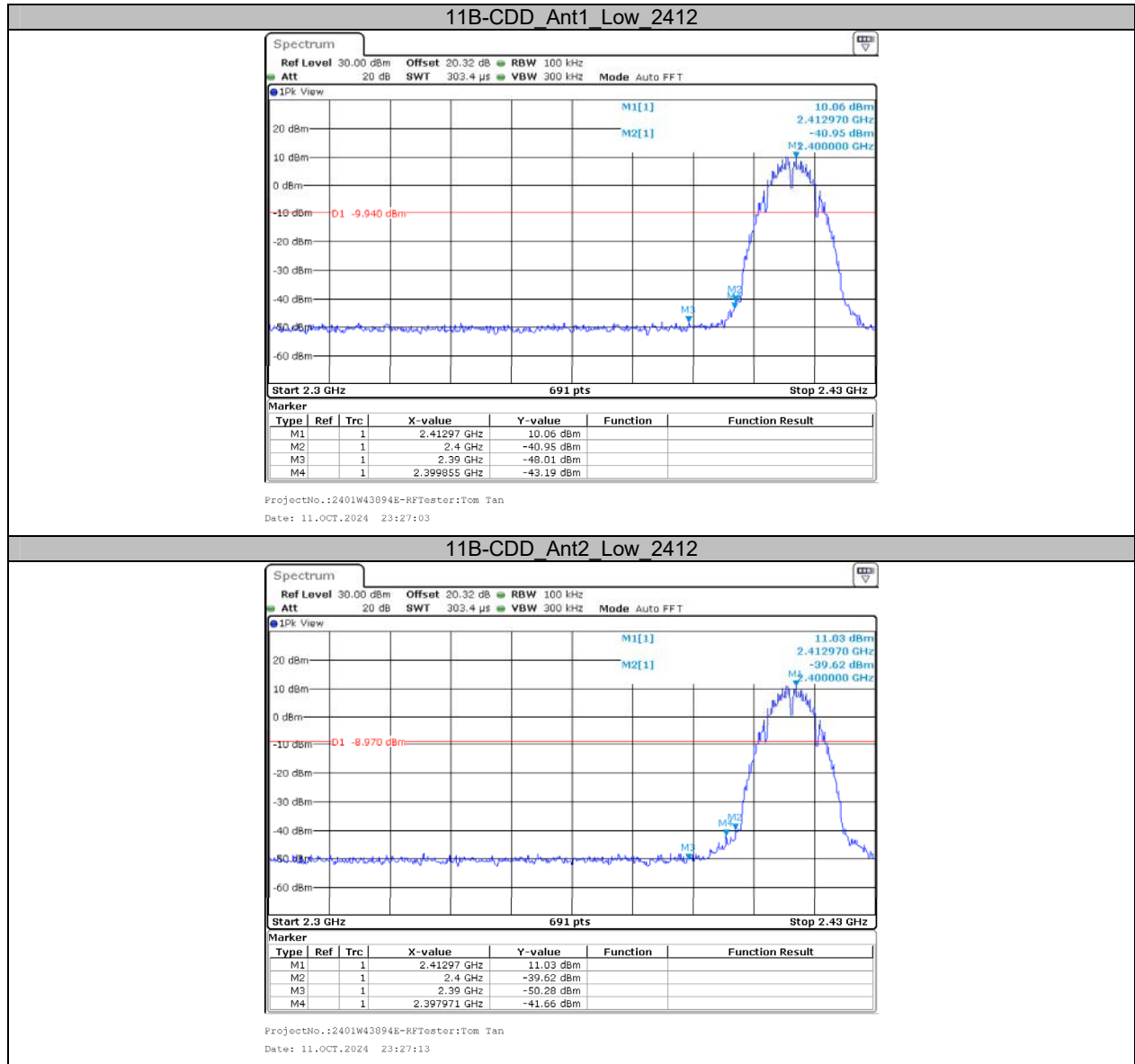


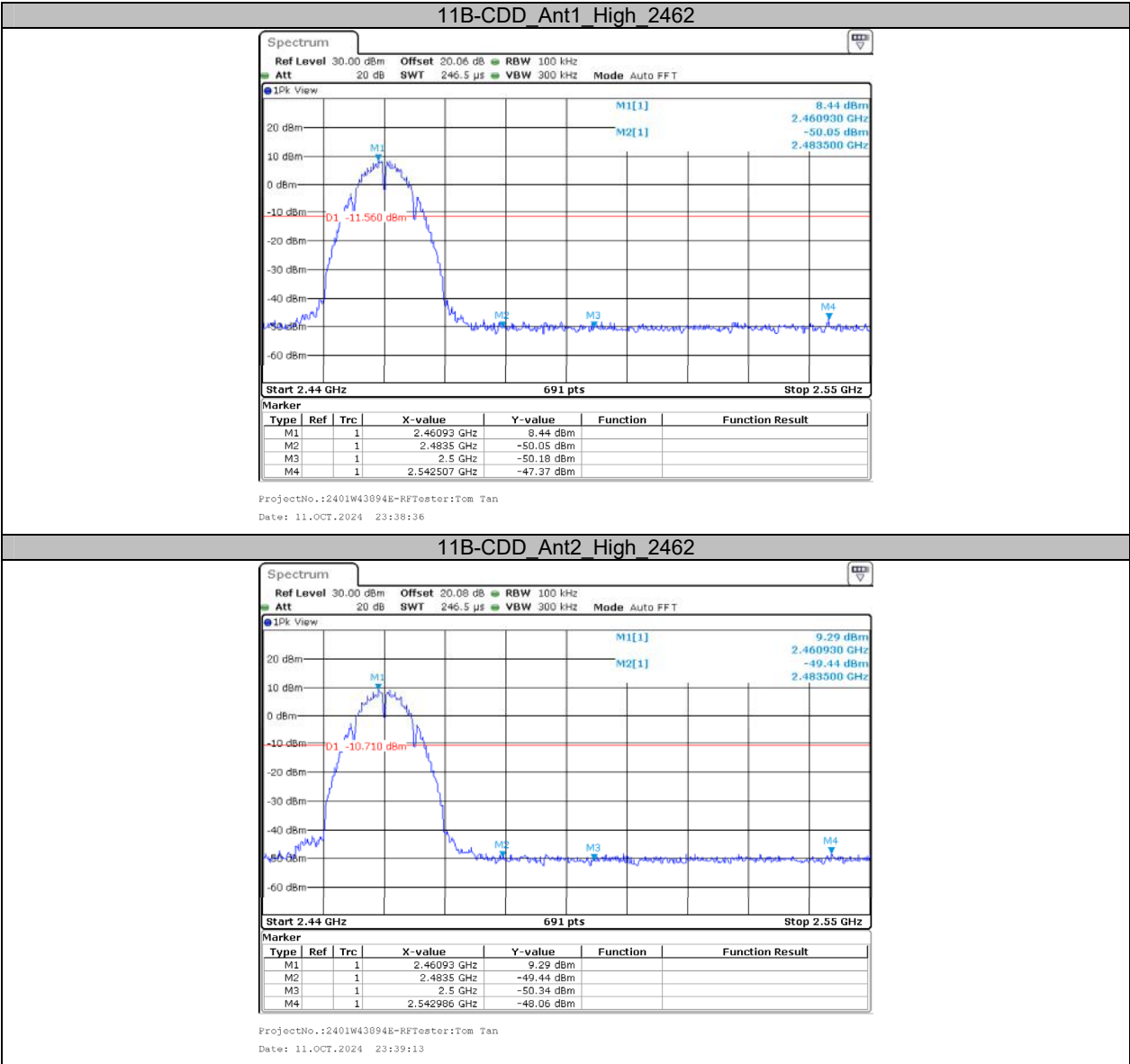


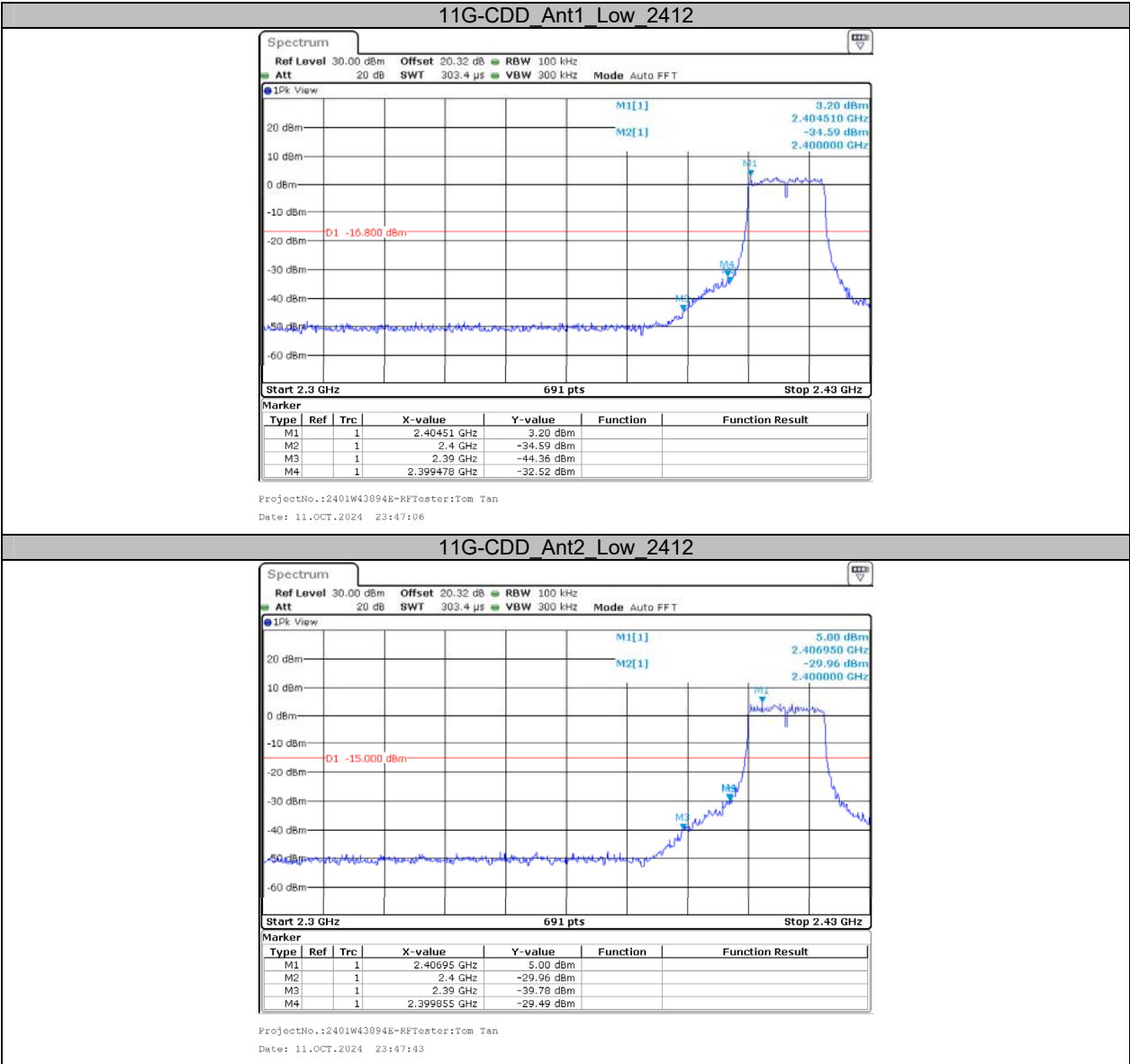


Appendix E: Band edge measurements

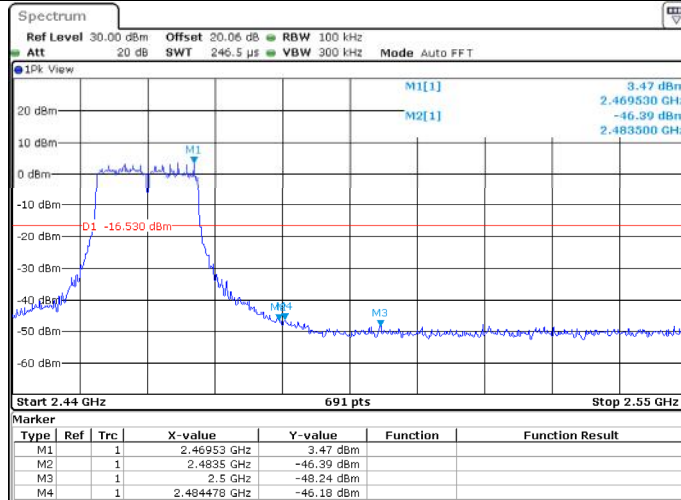
Test Graphs





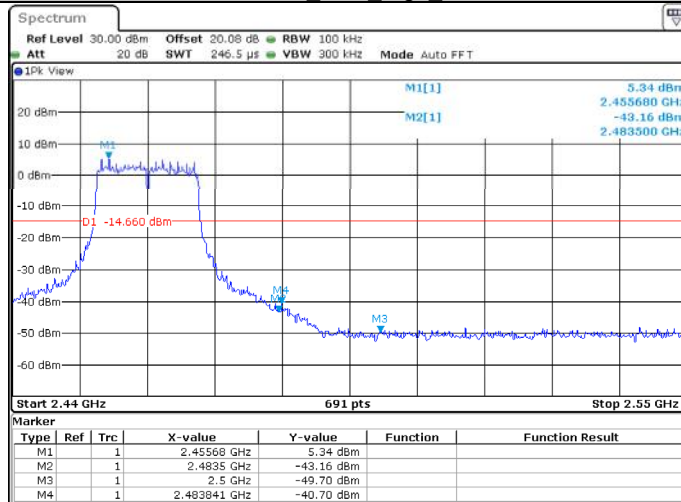


11G-CDD_Ant1_High_2462

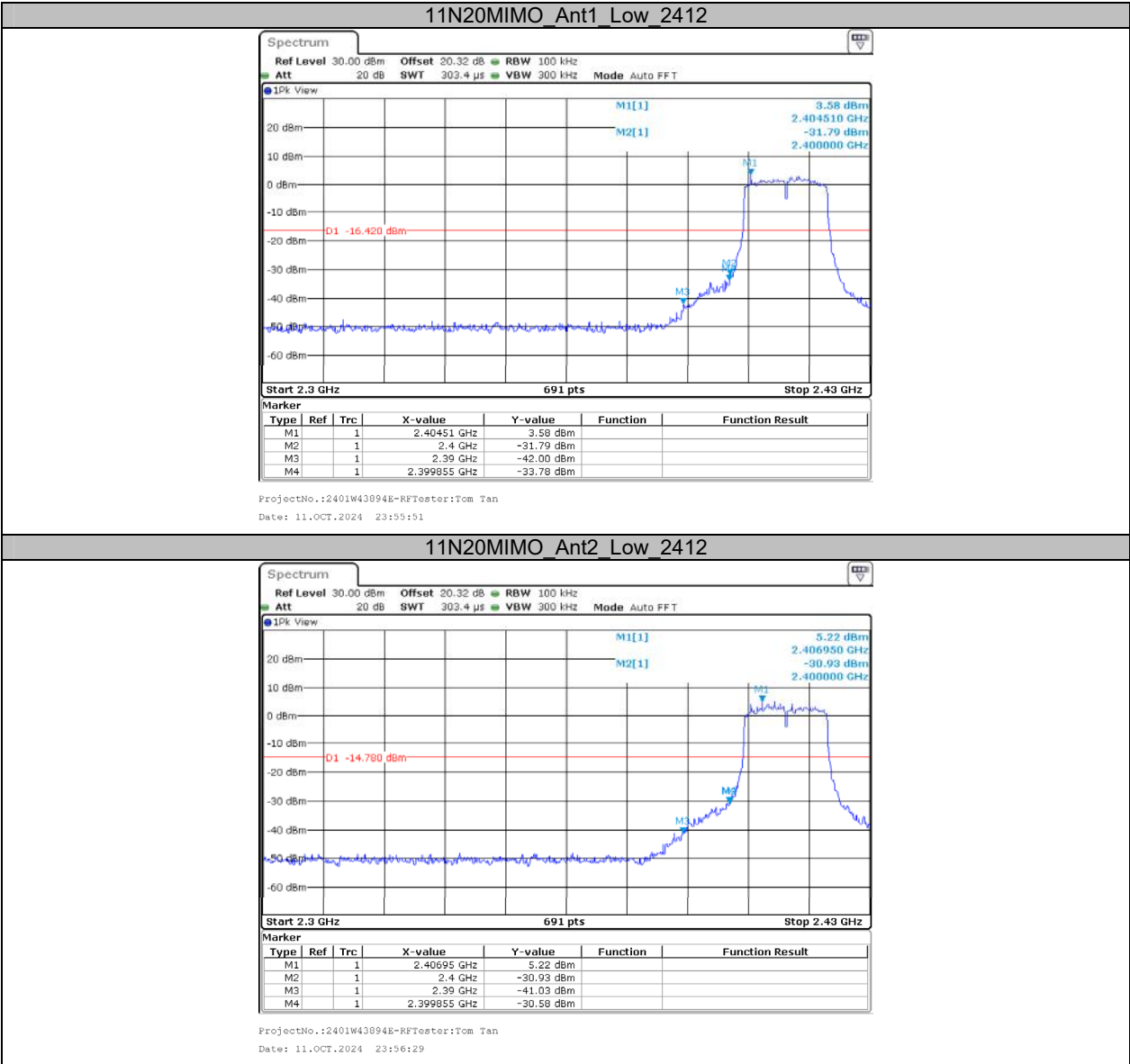


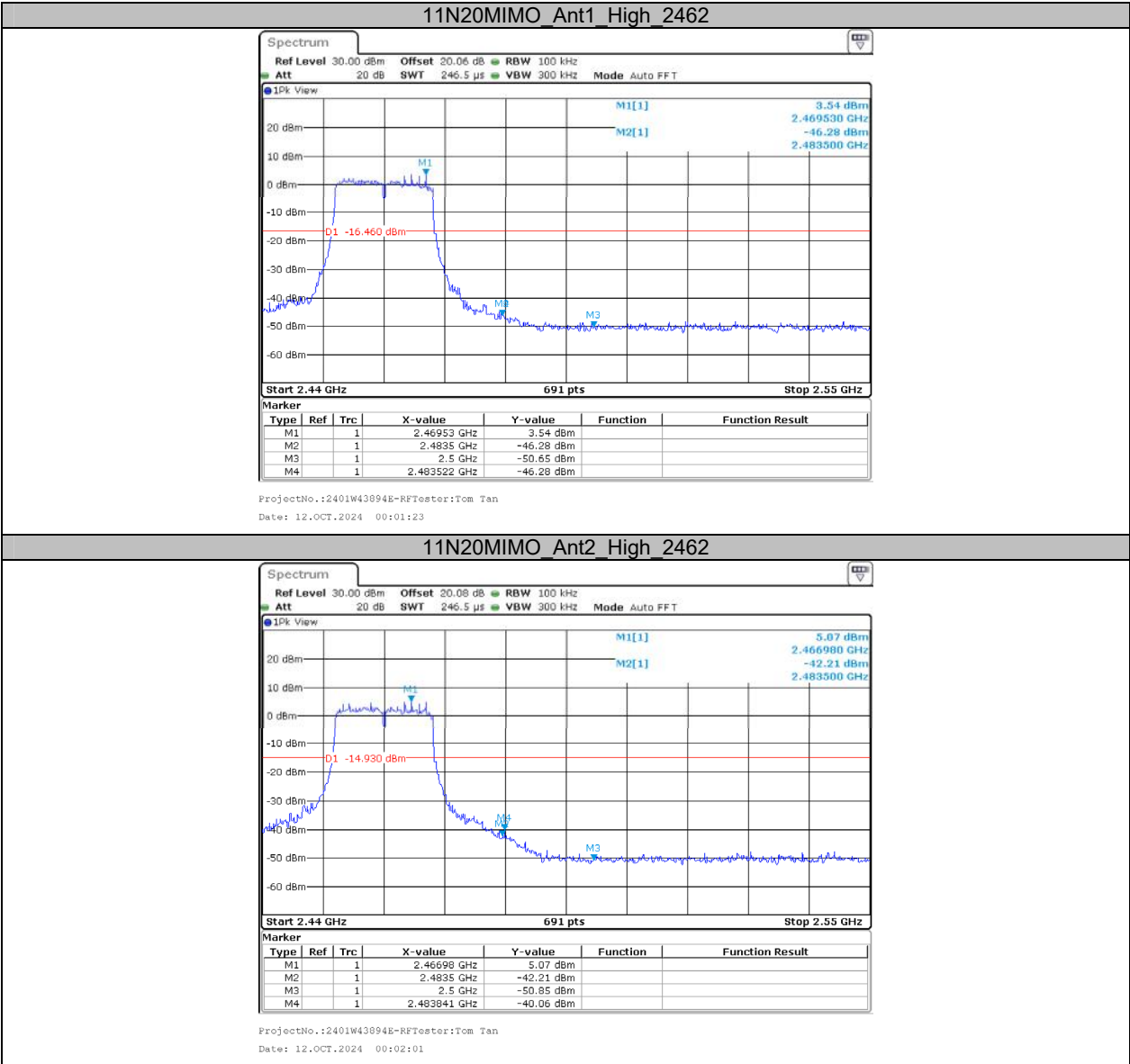
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Date: 11.OCT.2024 23:52:58

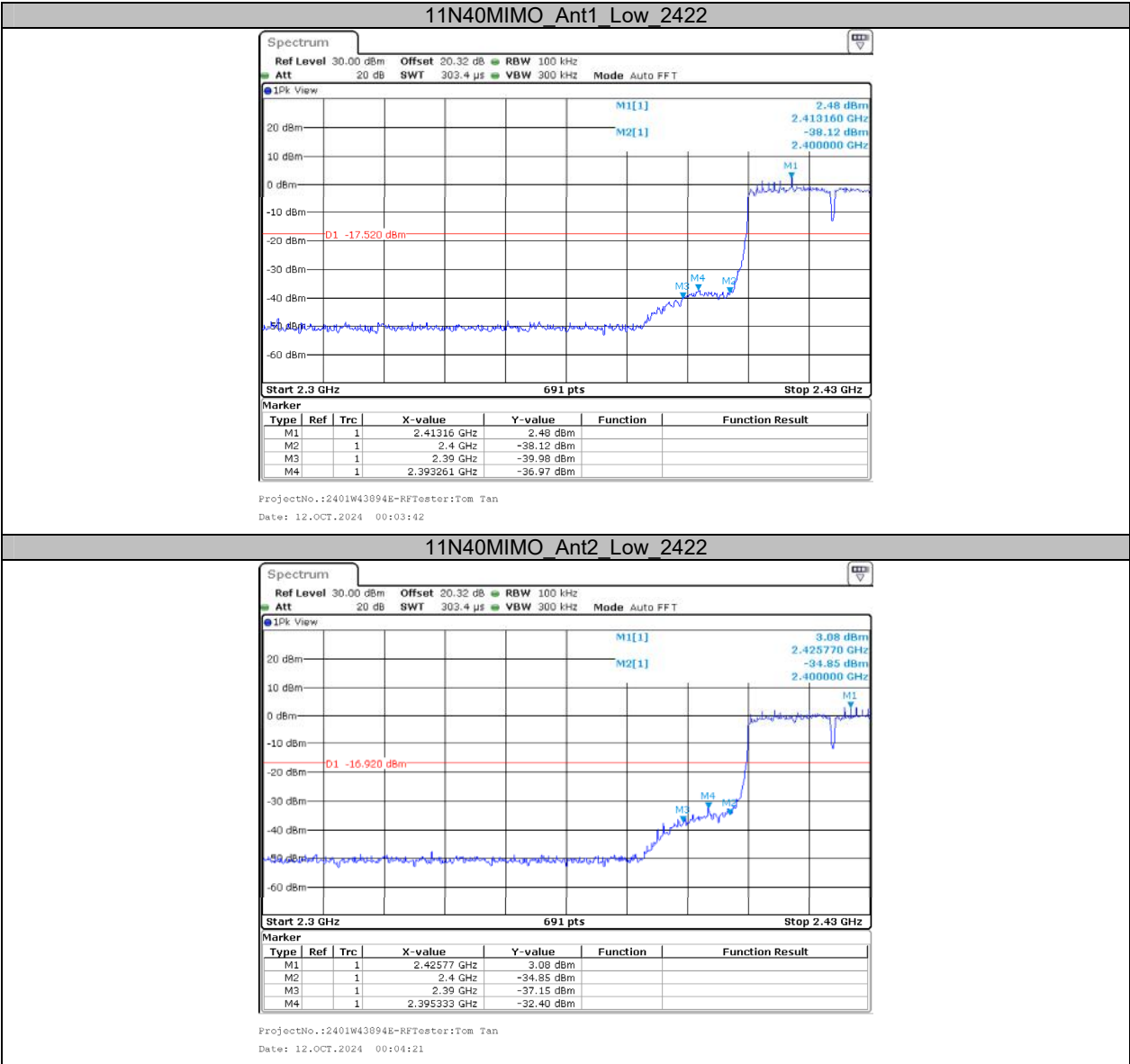
11G-CDD_Ant2_High_2462

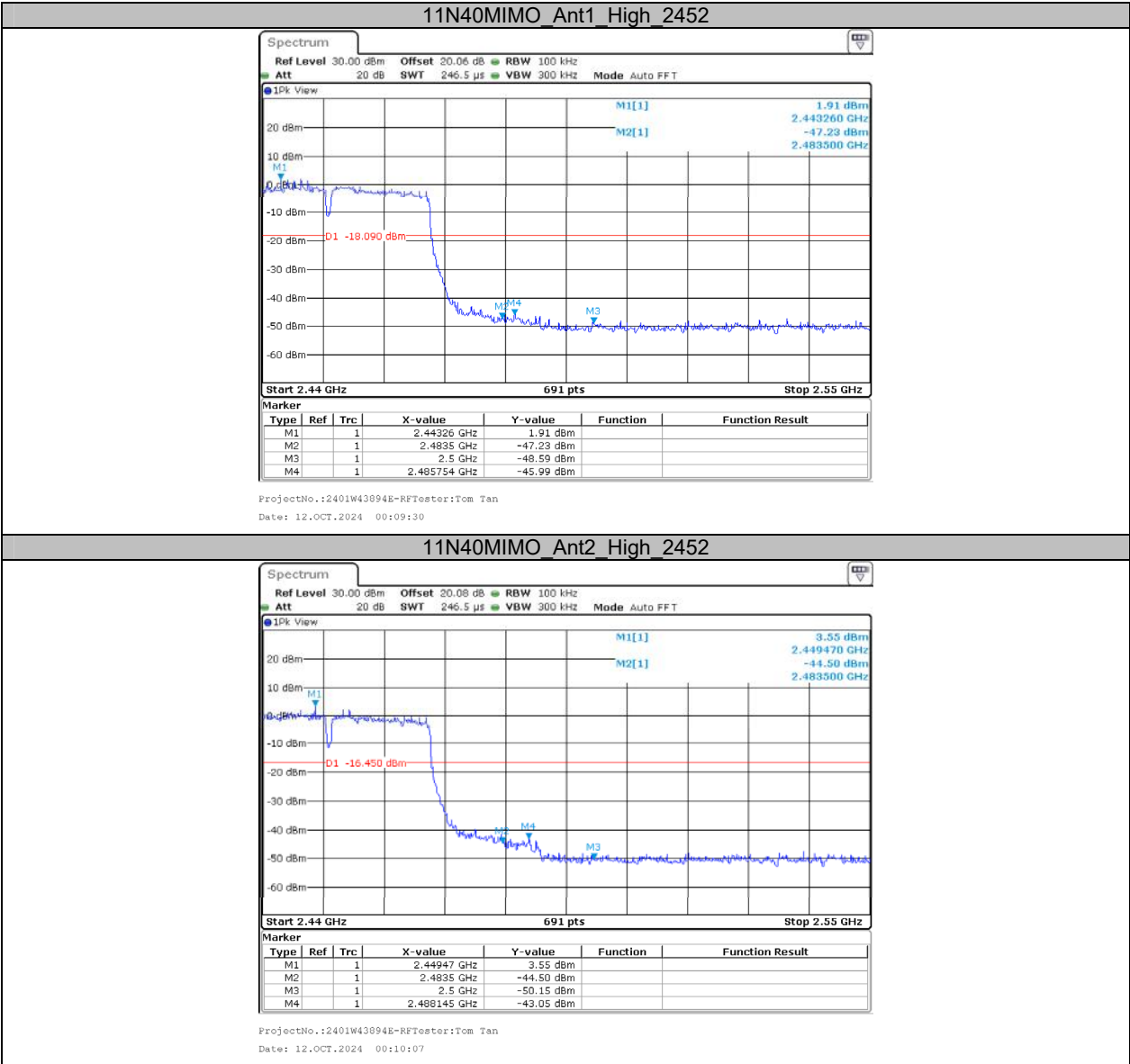


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Date: 11.OCT.2024 23:53:35

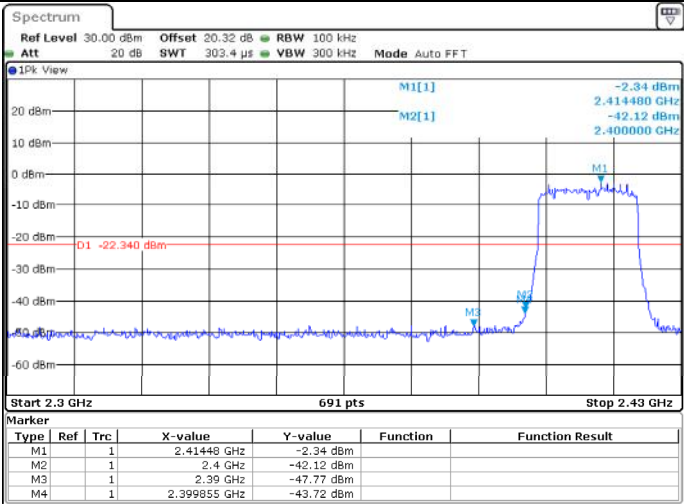






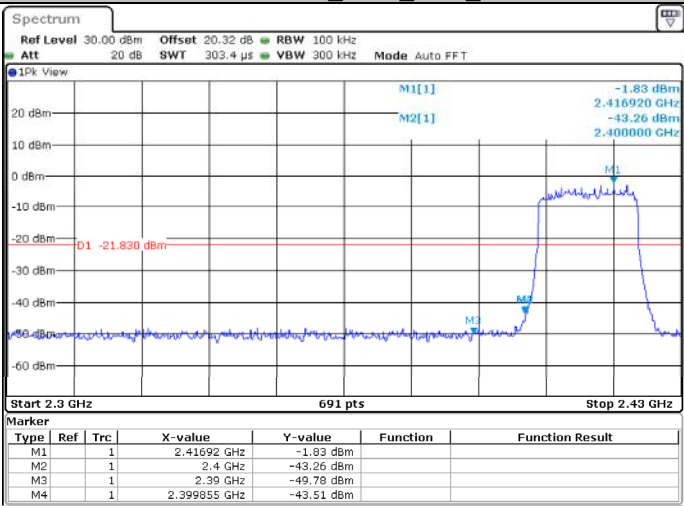


11AX20MIMO Ant1 Low 2412

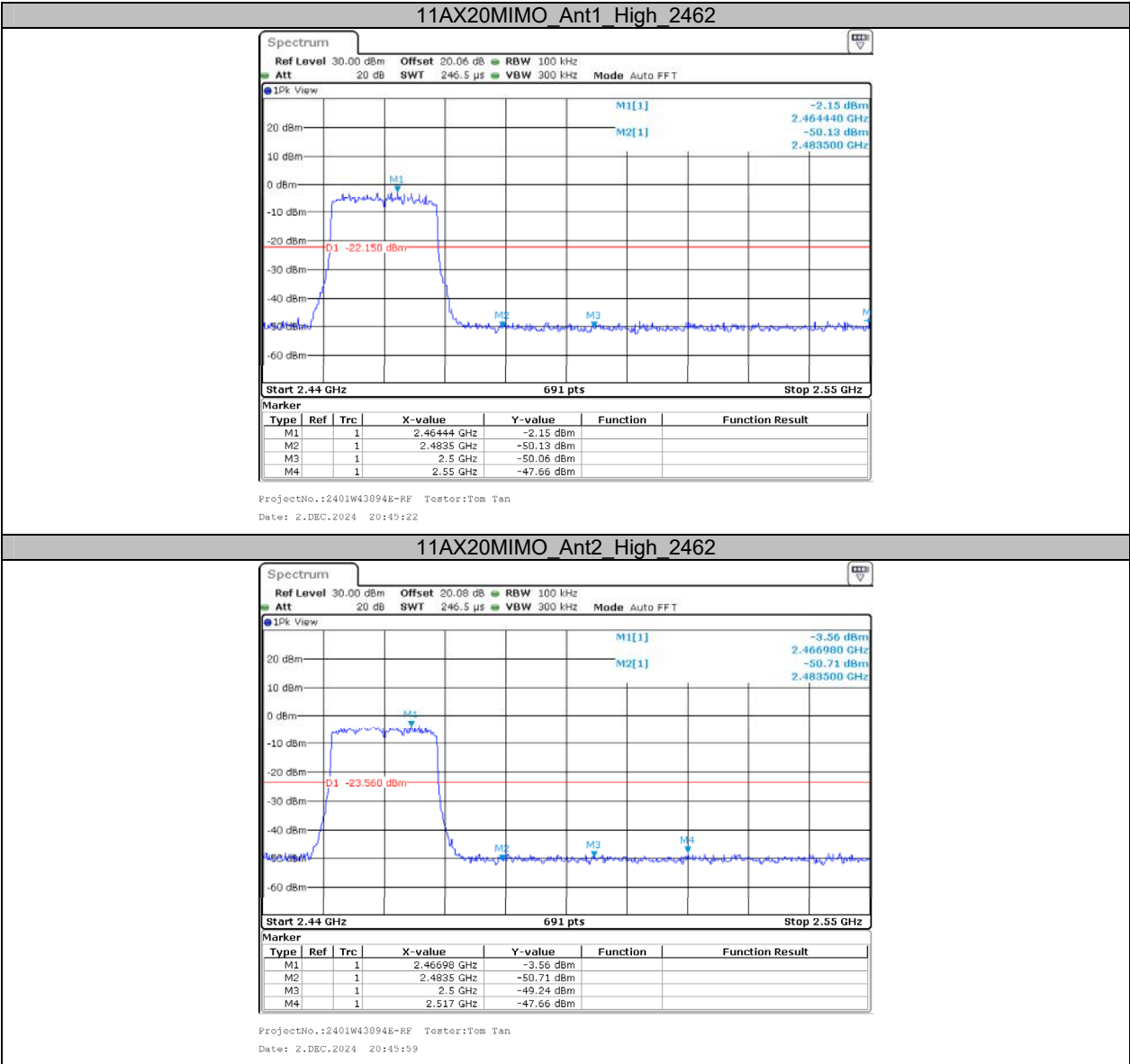


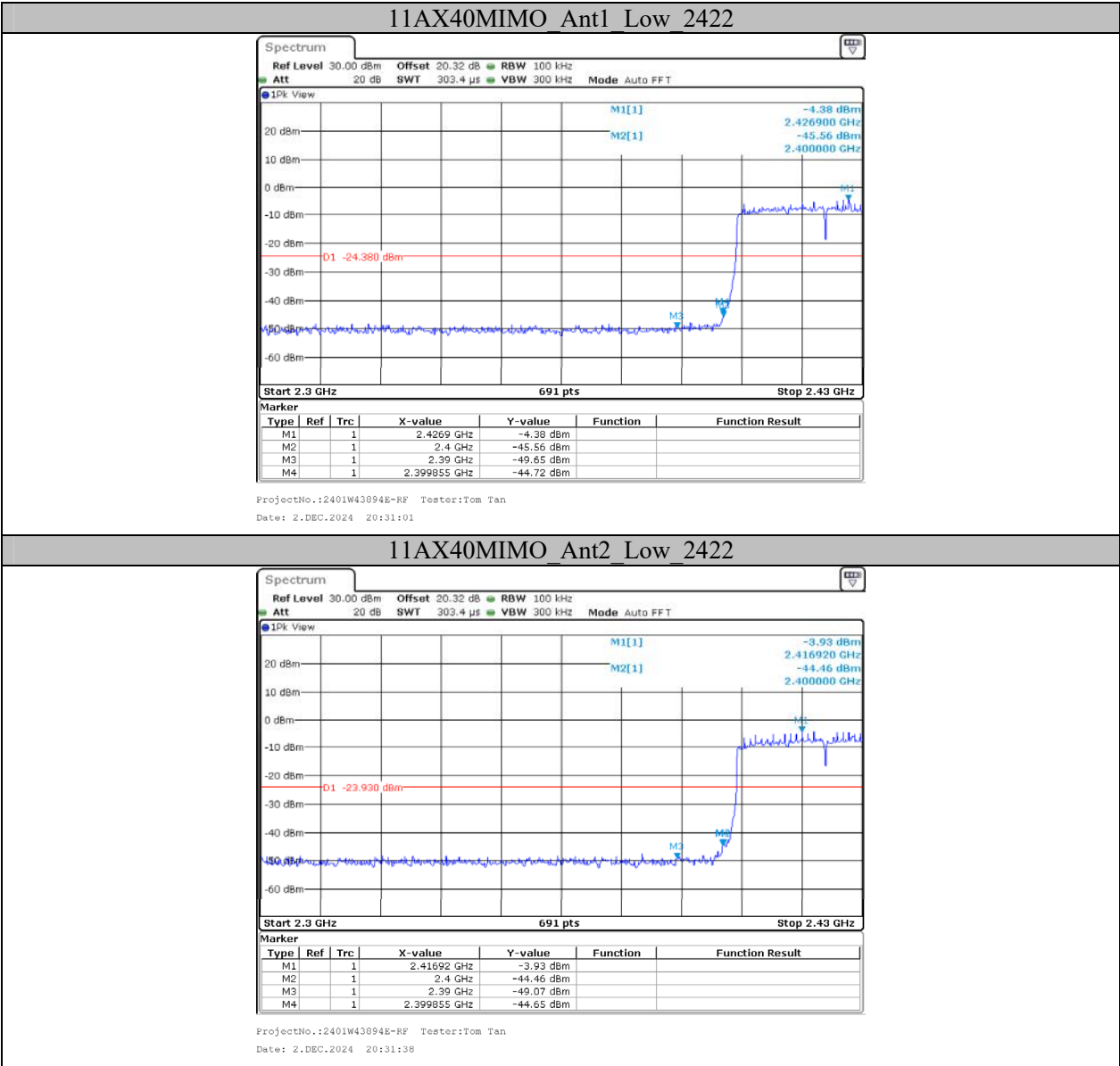
ProjectNo.:2401W43894E-RF Tester:Tom Tan
Date: 2.DEC.2024 20:35:26

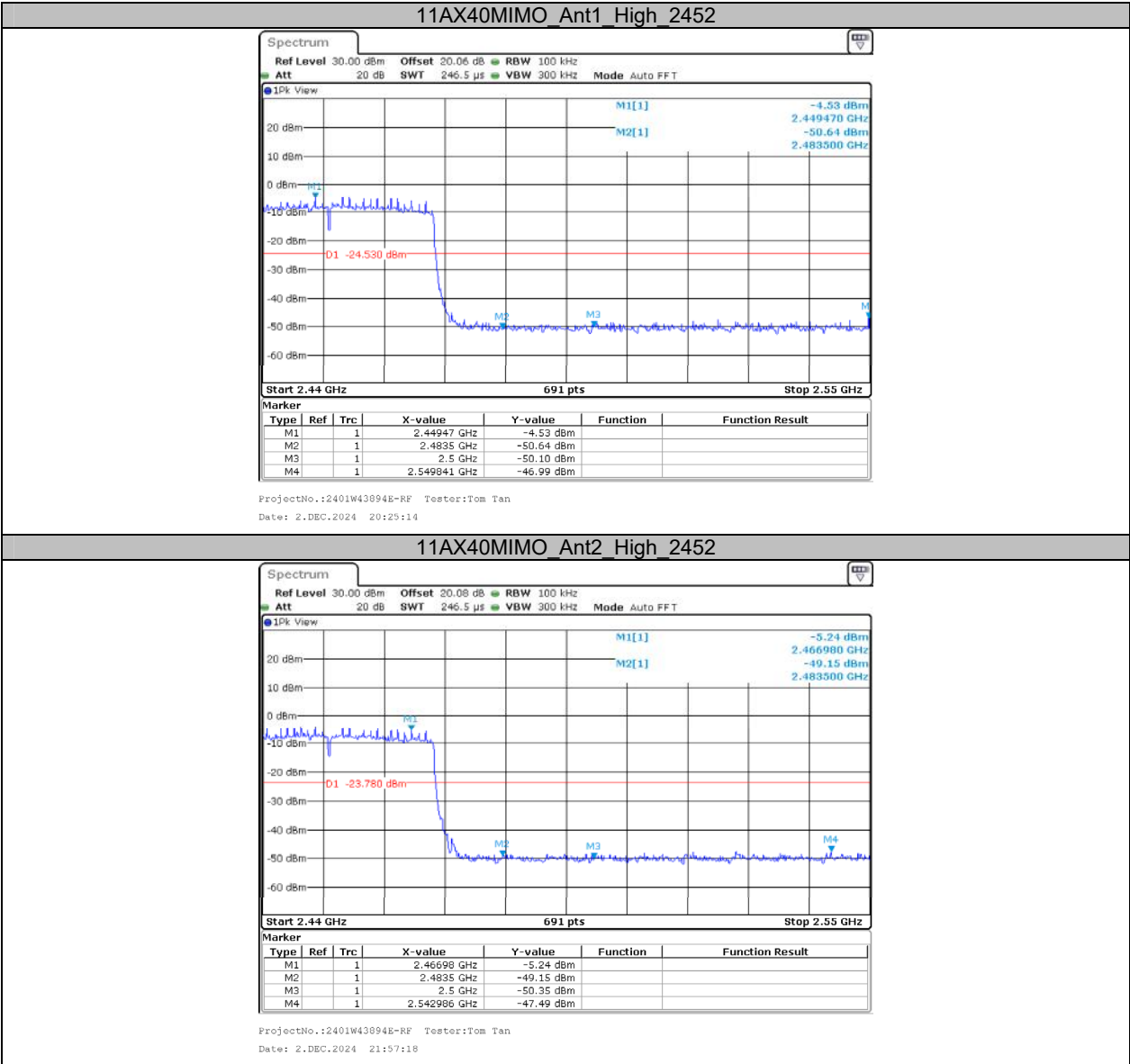
11AX20MIMO Ant2 Low 2412



ProjectNo.:2401W43894E-RF Tester:Tom Tan
Date: 2.DEC.2024 20:36:02







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-CDD	Ant1	2437	0.66	0.68	97.06	1515	2000
	Ant2	2437	0.66	0.67	98.51	/	10
11G-CDD	Ant1	2437	2.09	2.11	99.05	/	10
	Ant2	2437	2.10	2.11	99.53	/	10
11N20MIMO	Ant1	2437	5.43	5.44	99.82	/	10
	Ant2	2437	5.42	5.44	99.63	/	10
11N40MIMO	Ant1	2437	5.43	5.45	99.63	/	10
	Ant2	2437	5.42	5.44	99.63	/	10
11AX20MIMO	Ant1	2437	2.73	2.75	99.27	/	10
	Ant2	2437	2.73	2.75	99.27	/	10
11AX40MIMO	Ant1	2437	1.43	1.45	98.62	/	10
	Ant2	2437	1.43	1.45	98.62	/	10

Test Graphs

