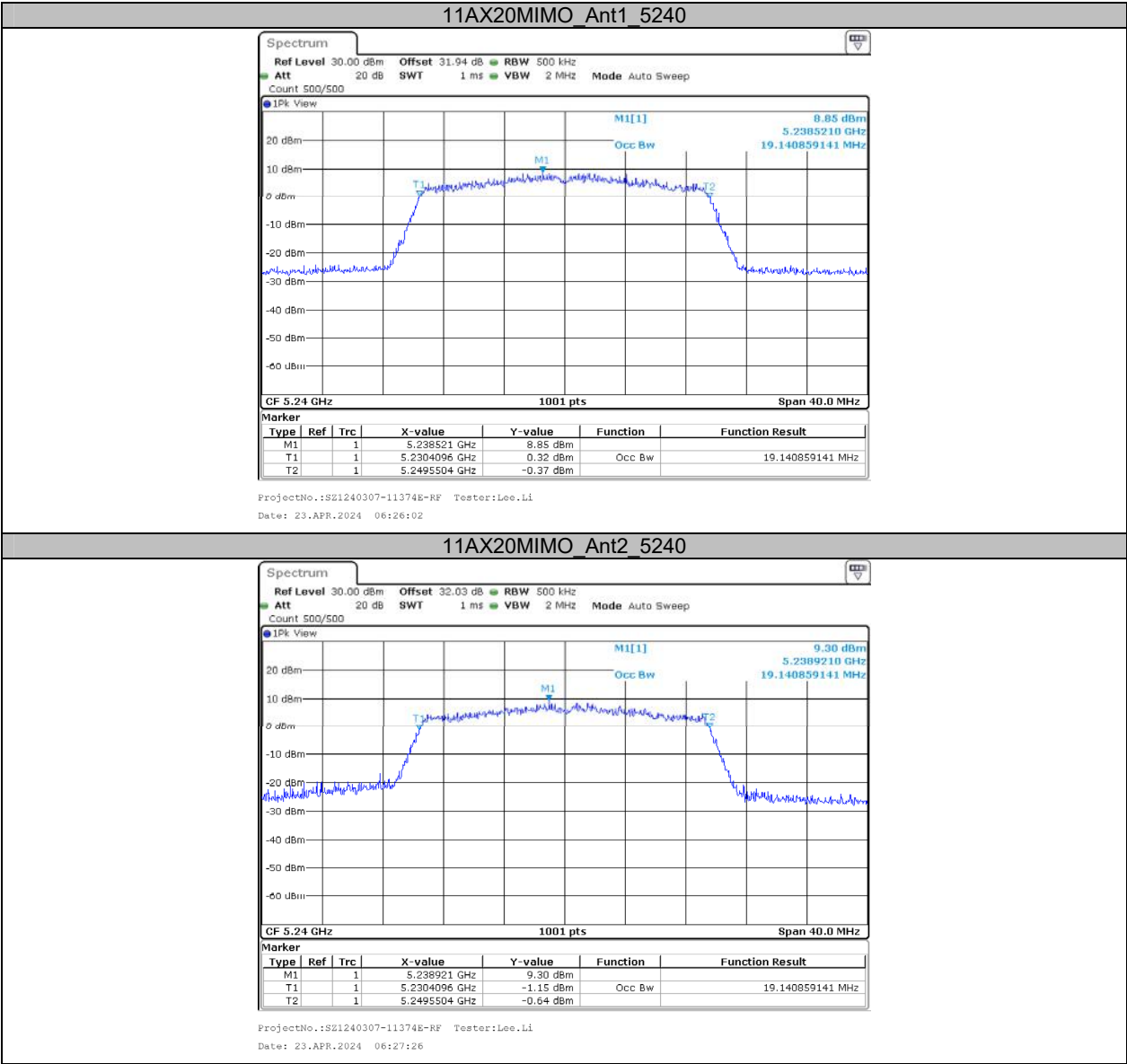
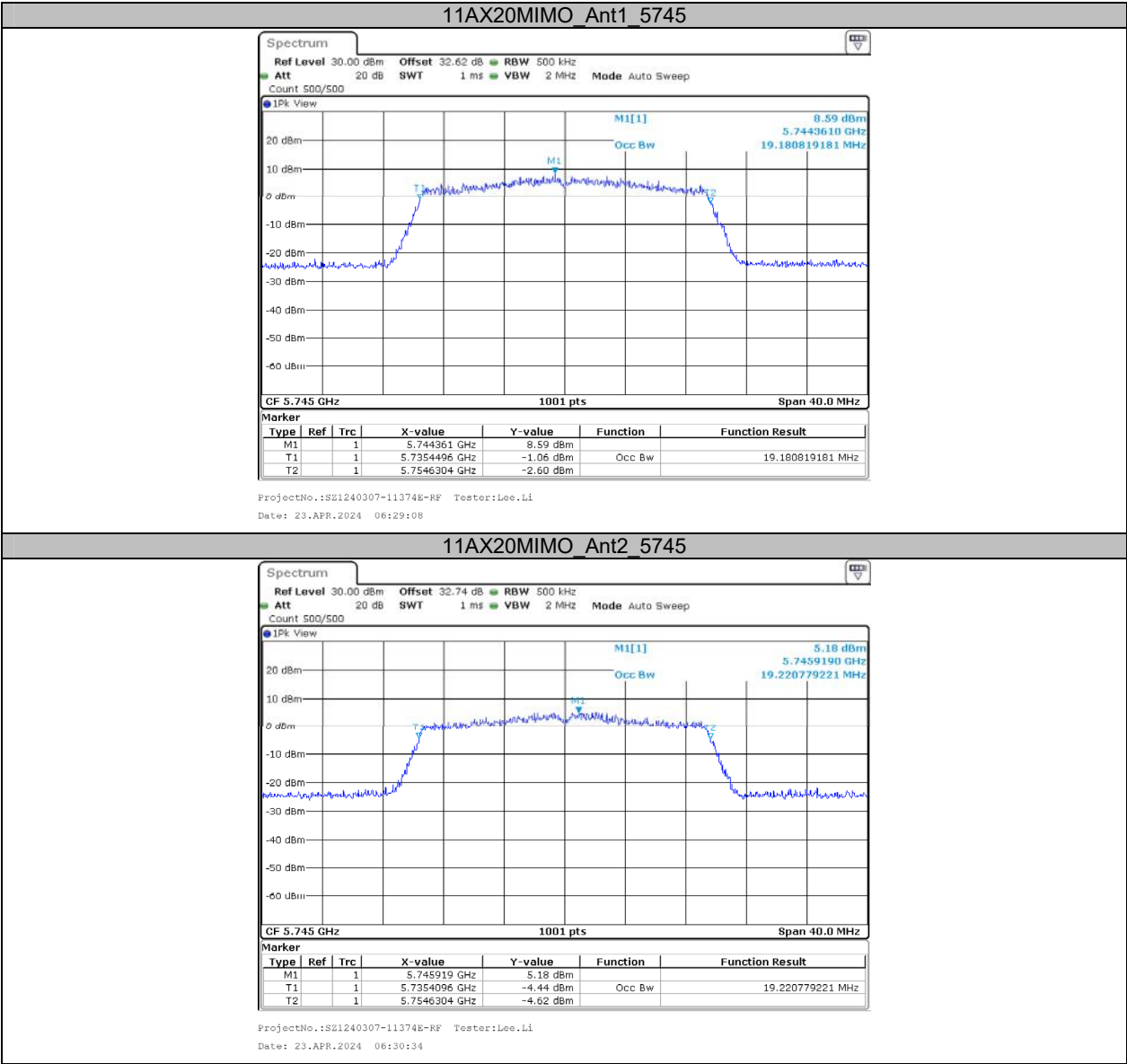
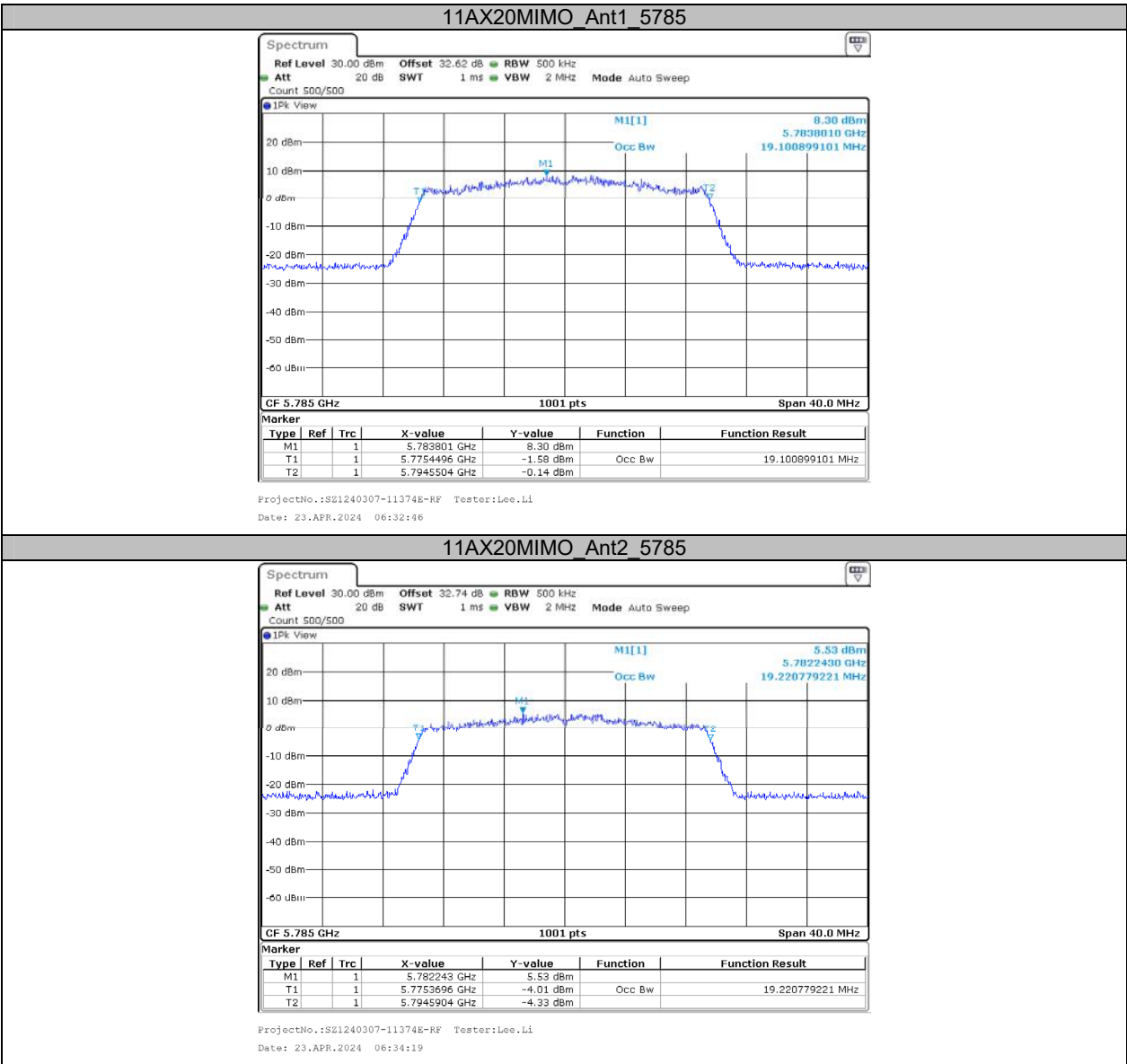
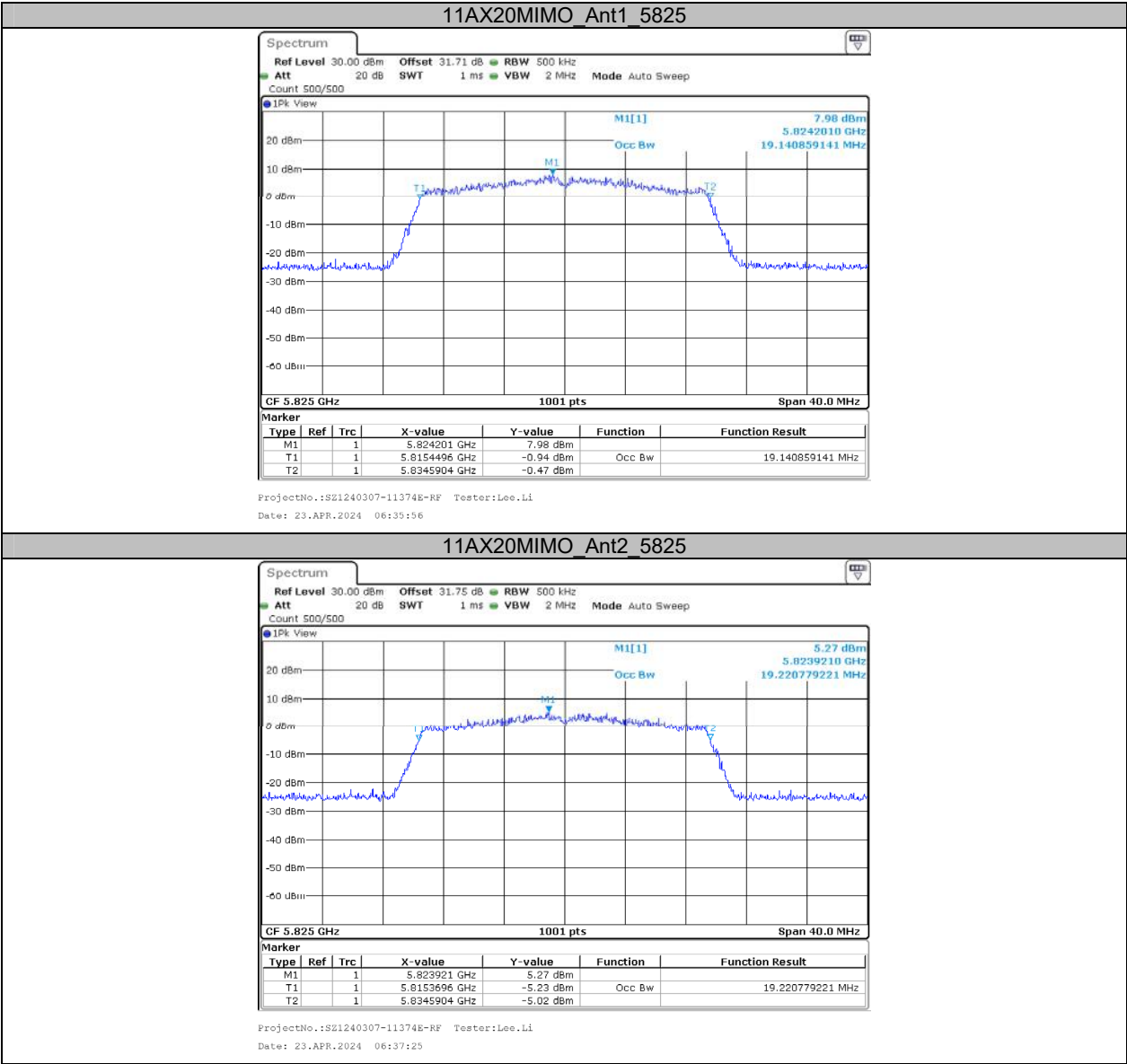
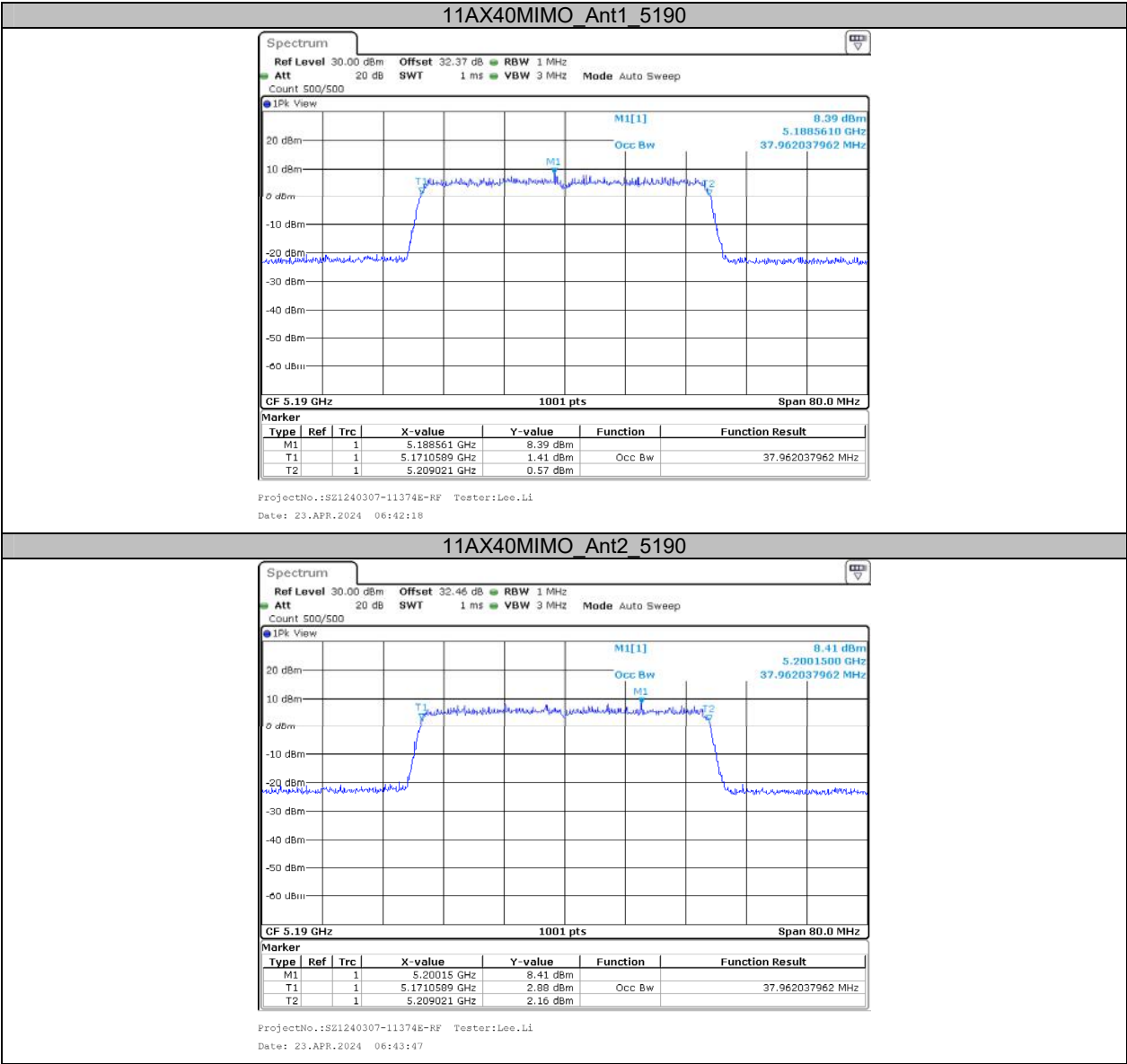


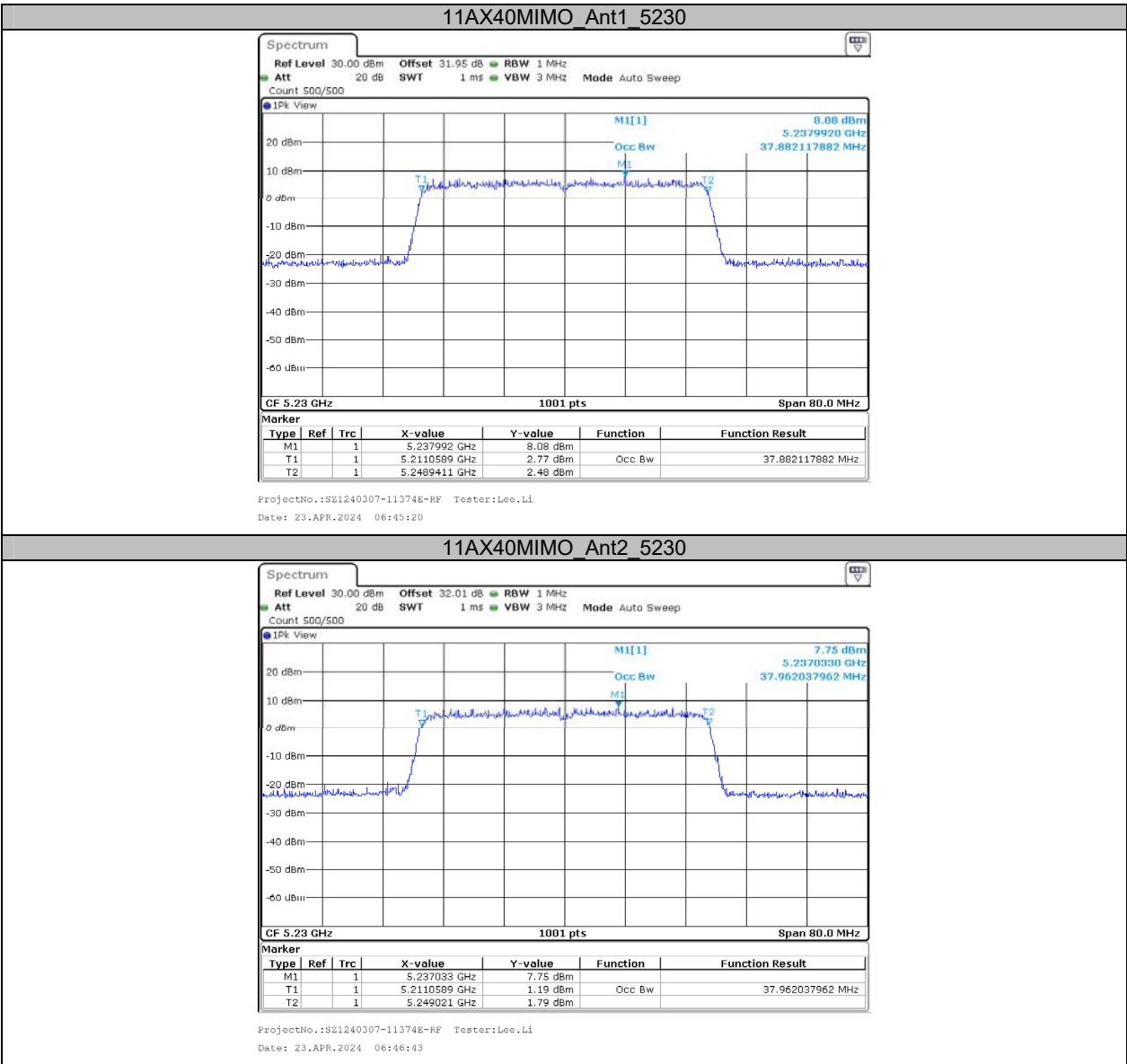


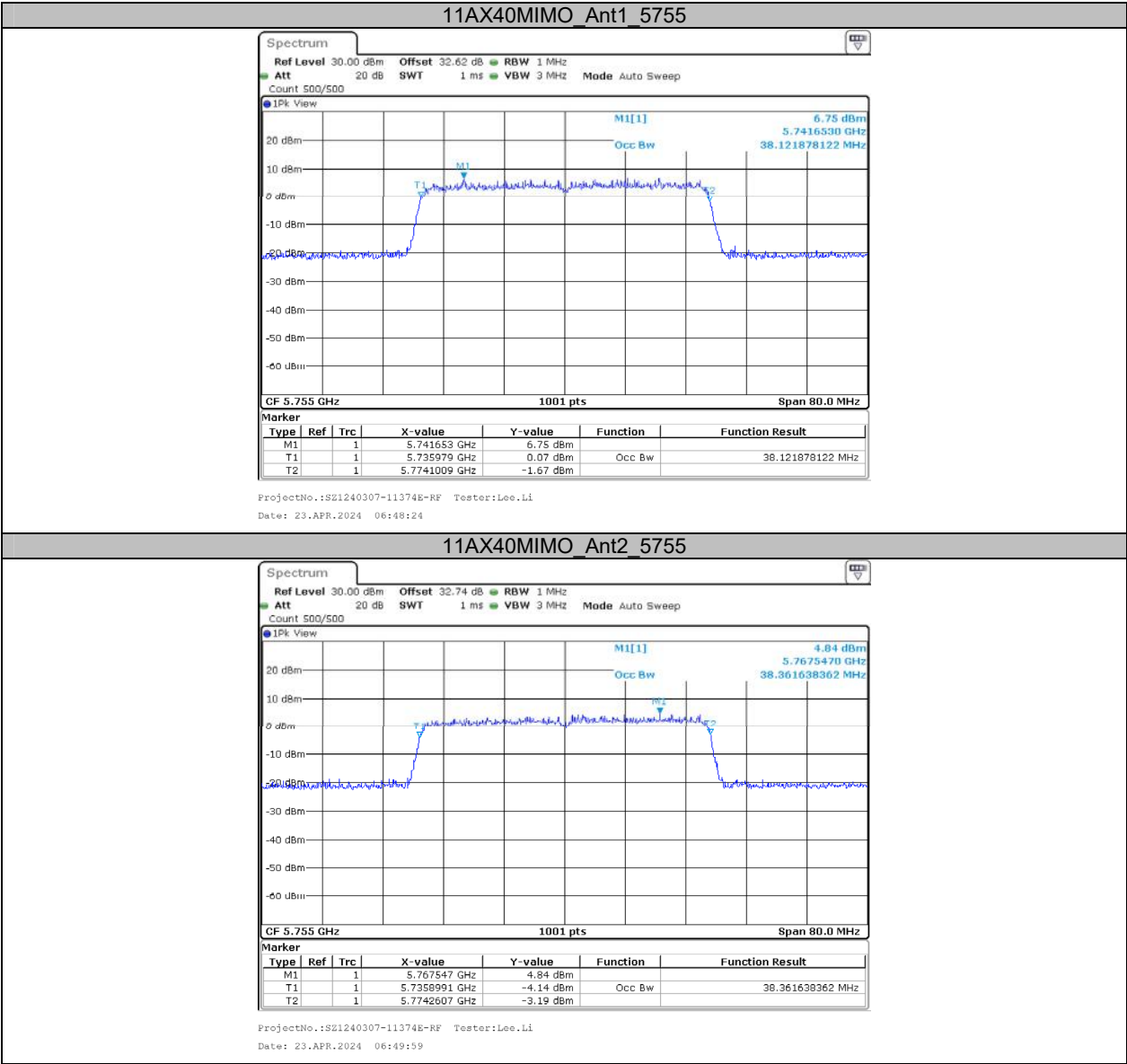


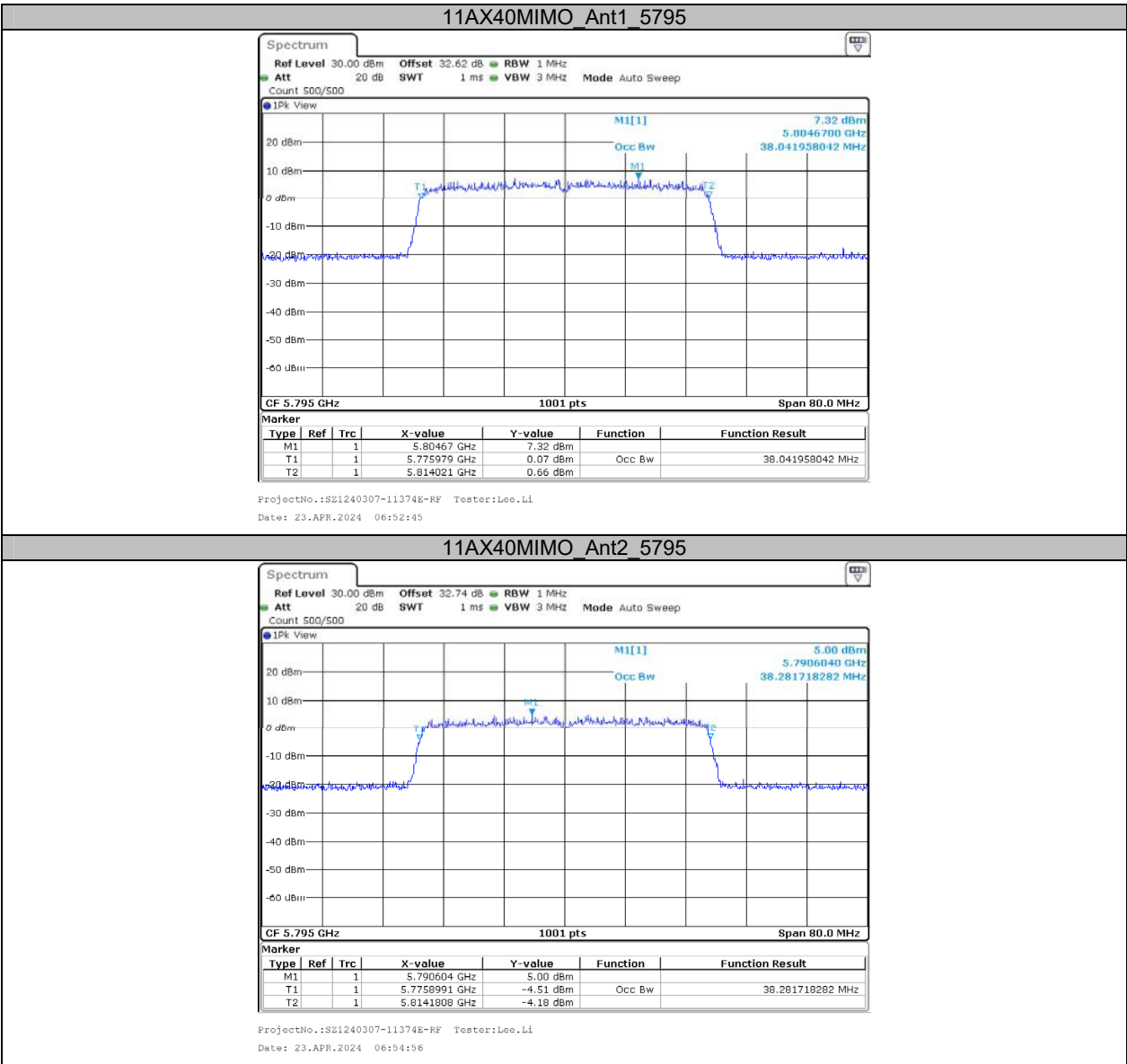


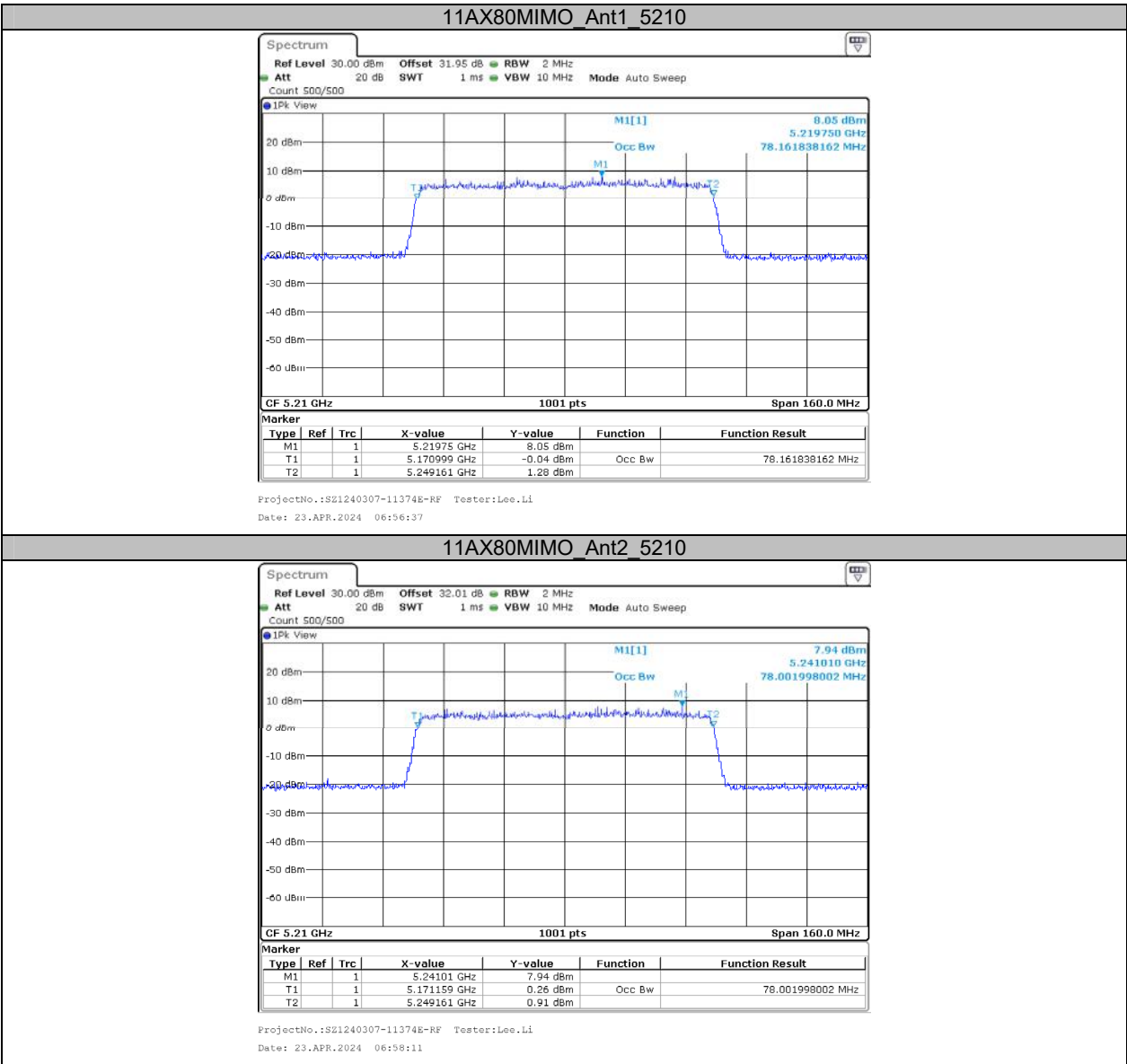


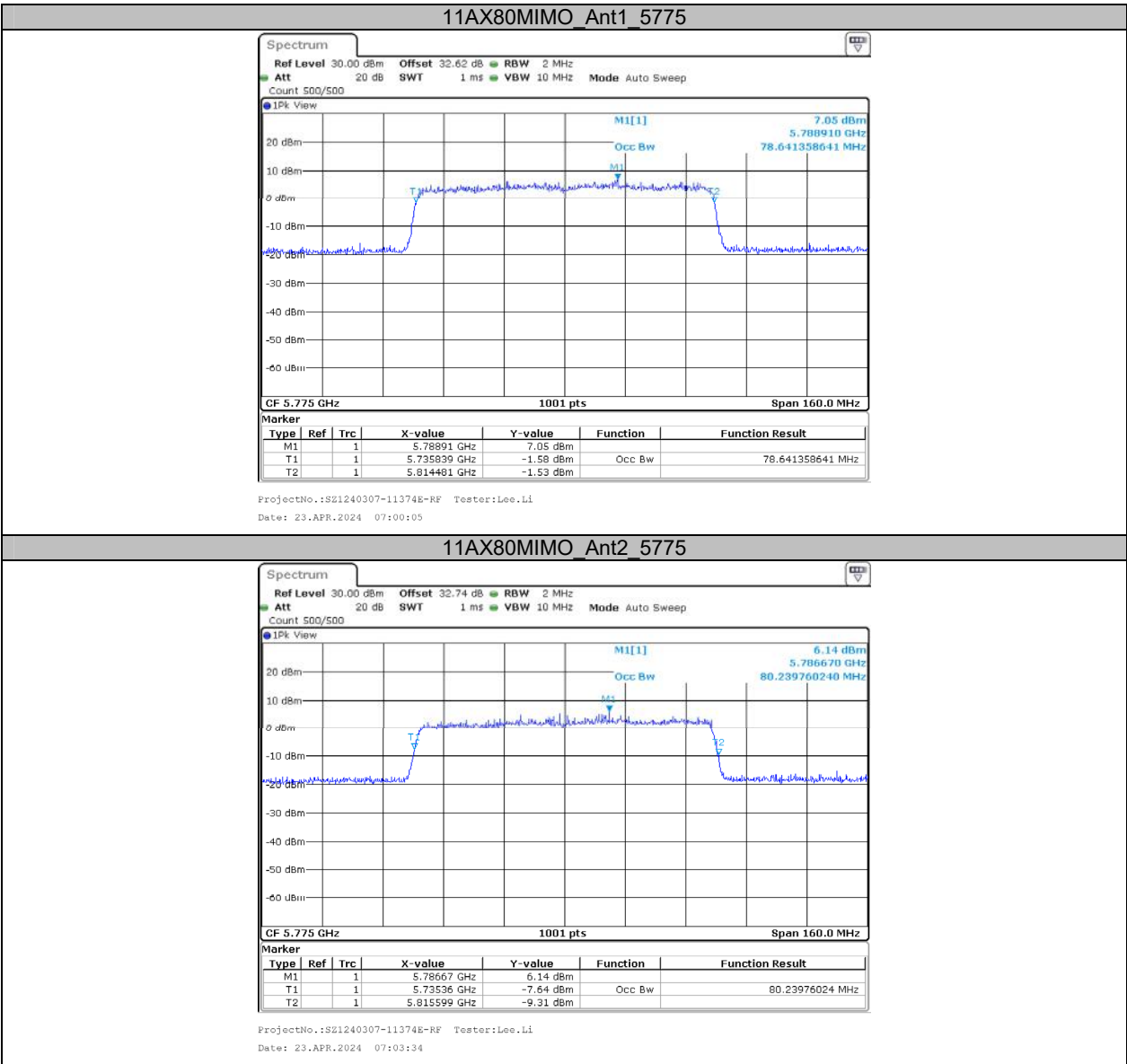








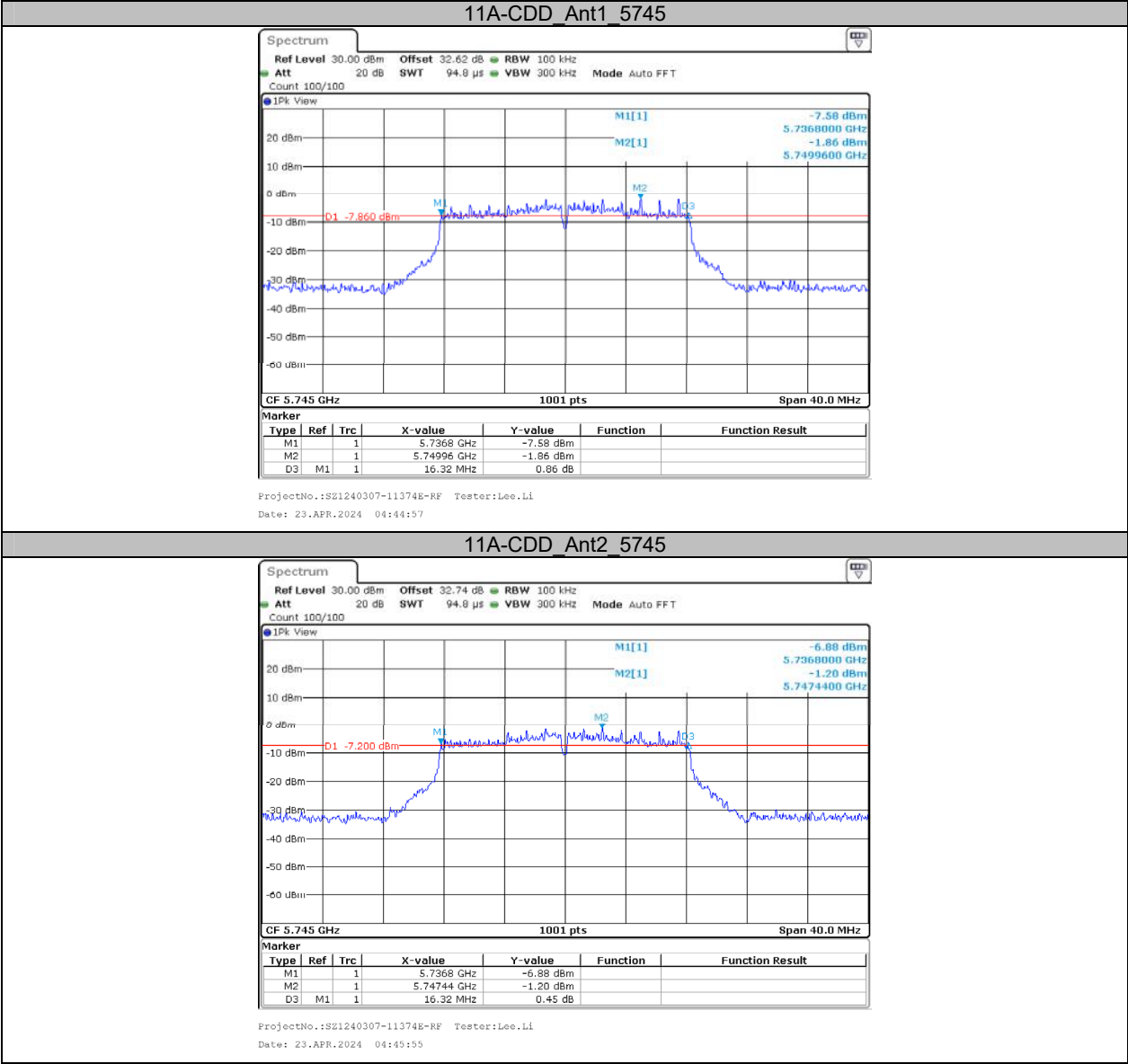


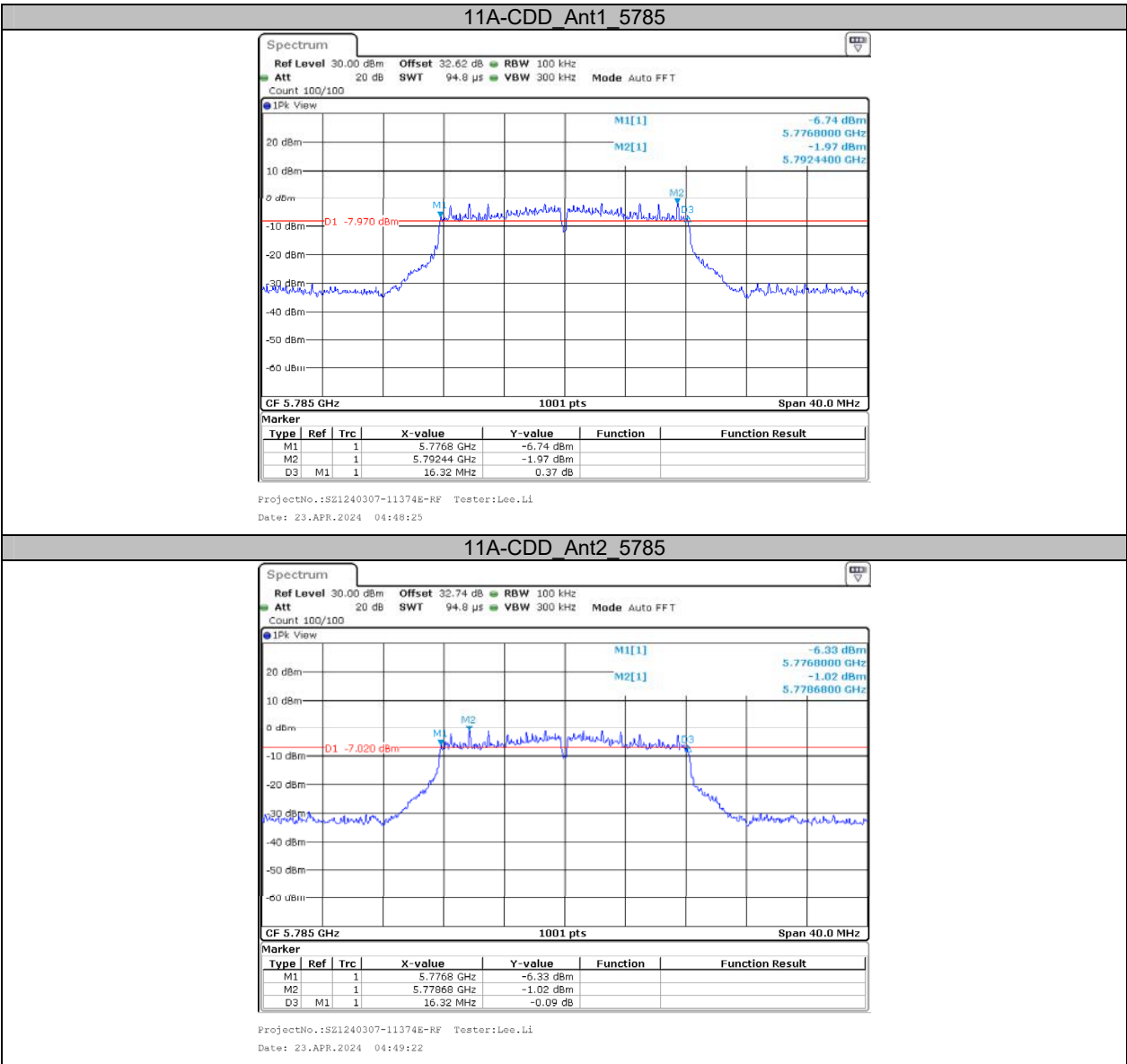


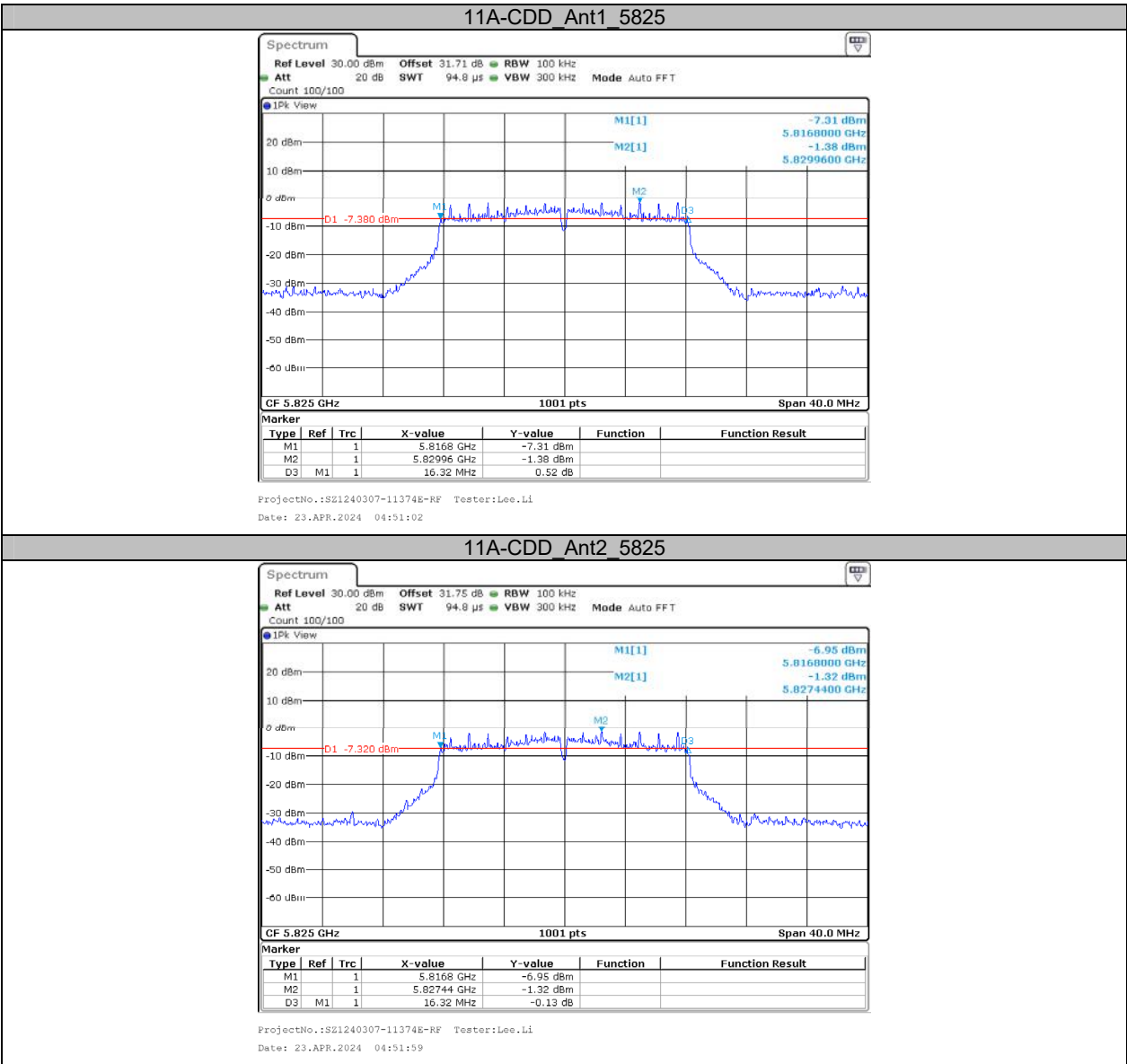
Appendix A3: Min emission bandwidth**Test Result B4**

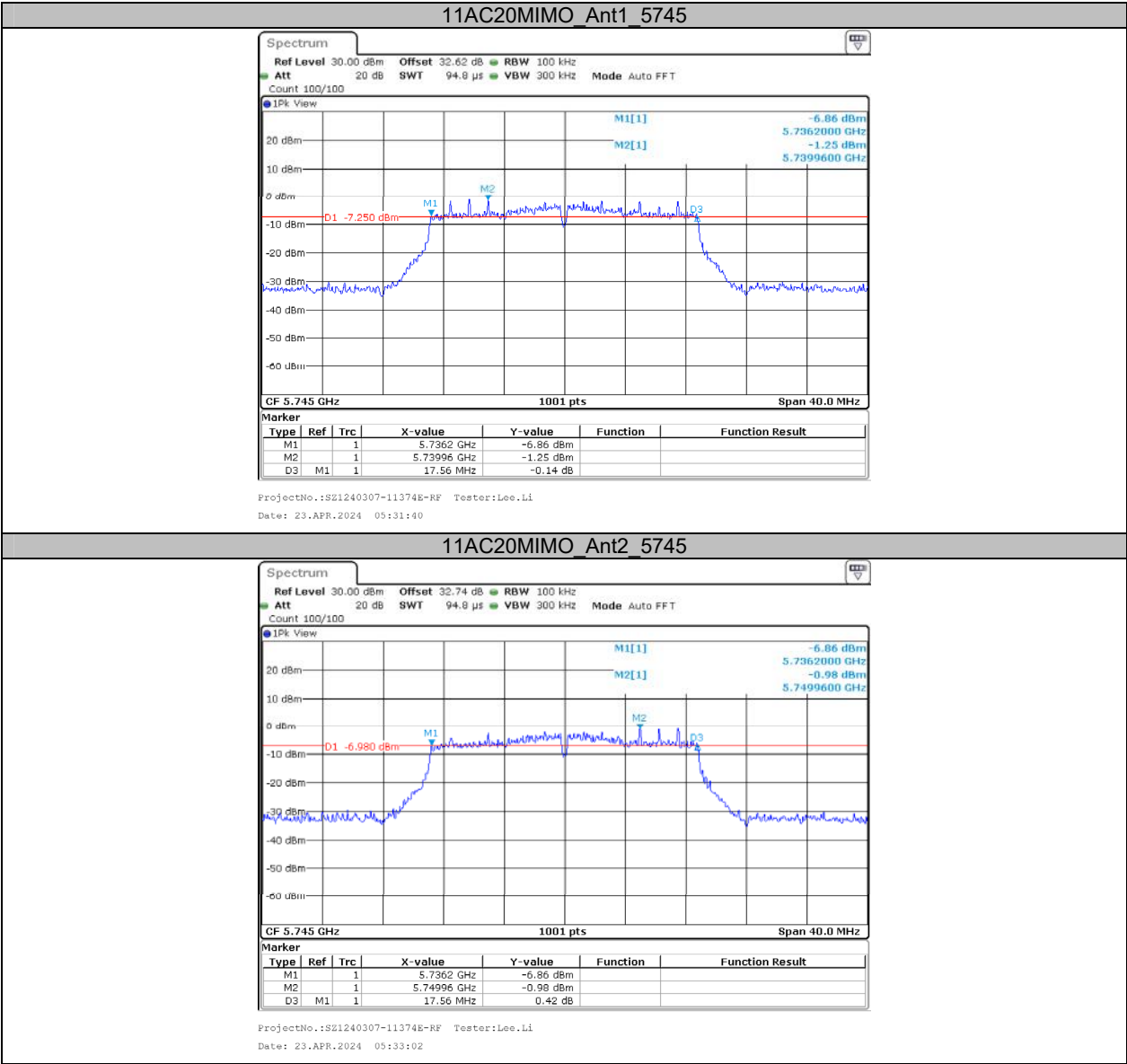
Test Mode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A-CDD	Ant1	5745	16.32	5736.80	5753.12	0.5	PASS
	Ant2	5745	16.32	5736.80	5753.12	0.5	PASS
	Ant1	5785	16.32	5776.80	5793.12	0.5	PASS
	Ant2	5785	16.32	5776.80	5793.12	0.5	PASS
	Ant1	5825	16.32	5816.80	5833.12	0.5	PASS
	Ant2	5825	16.32	5816.80	5833.12	0.5	PASS
11AC20MIMO	Ant1	5745	17.56	5736.20	5753.76	0.5	PASS
	Ant2	5745	17.56	5736.20	5753.76	0.5	PASS
	Ant1	5785	17.60	5776.16	5793.76	0.5	PASS
	Ant2	5785	17.52	5776.20	5793.72	0.5	PASS
	Ant1	5825	17.28	5816.44	5833.72	0.5	PASS
	Ant2	5825	17.52	5816.20	5833.72	0.5	PASS
11AC40MIMO	Ant1	5755	35.92	5737.24	5773.16	0.5	PASS
	Ant2	5755	35.76	5737.40	5773.16	0.5	PASS
	Ant1	5795	35.68	5777.24	5812.92	0.5	PASS
	Ant2	5795	35.52	5777.40	5812.92	0.5	PASS
11AC80MIMO	Ant1	5775	75.20	5737.40	5812.60	0.5	PASS
	Ant2	5775	75.20	5737.40	5812.60	0.5	PASS
11AX20MIMO	Ant1	5745	18.76	5735.60	5754.36	0.5	PASS
	Ant2	5745	18.00	5736.08	5754.08	0.5	PASS
	Ant1	5785	18.52	5775.72	5794.24	0.5	PASS
	Ant2	5785	17.96	5775.88	5793.84	0.5	PASS
	Ant1	5825	18.04	5816.04	5834.08	0.5	PASS
	Ant2	5825	17.84	5816.52	5834.36	0.5	PASS
11AX40MIMO	Ant1	5755	37.76	5736.20	5773.96	0.5	PASS
	Ant2	5755	37.52	5736.20	5773.72	0.5	PASS
	Ant1	5795	37.52	5776.20	5813.72	0.5	PASS
	Ant2	5795	37.52	5776.20	5813.72	0.5	PASS
11AX80MIMO	Ant1	5775	76.48	5737.40	5813.88	0.5	PASS
	Ant2	5775	75.36	5737.40	5812.76	0.5	PASS

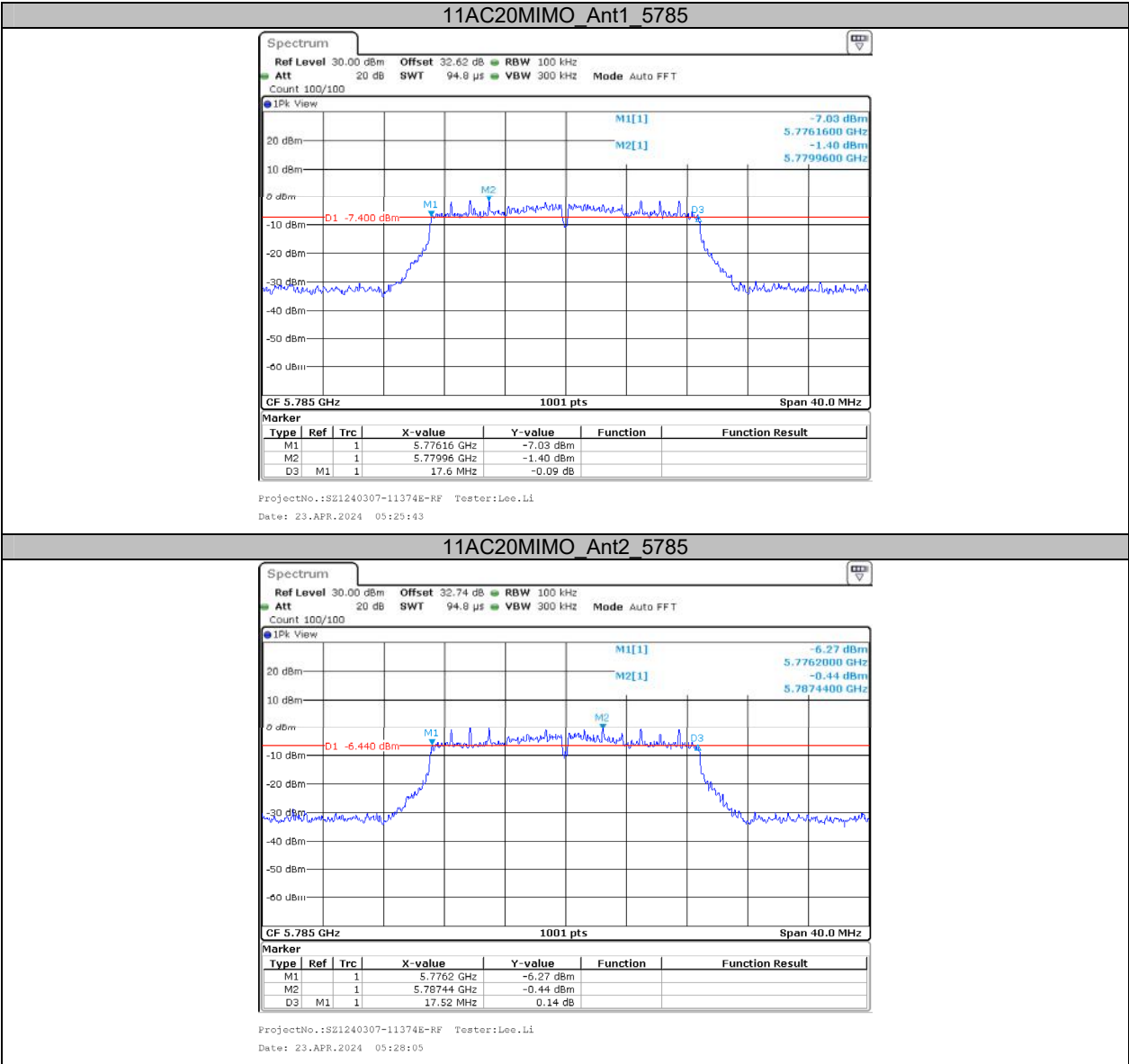
Test Graphs B4

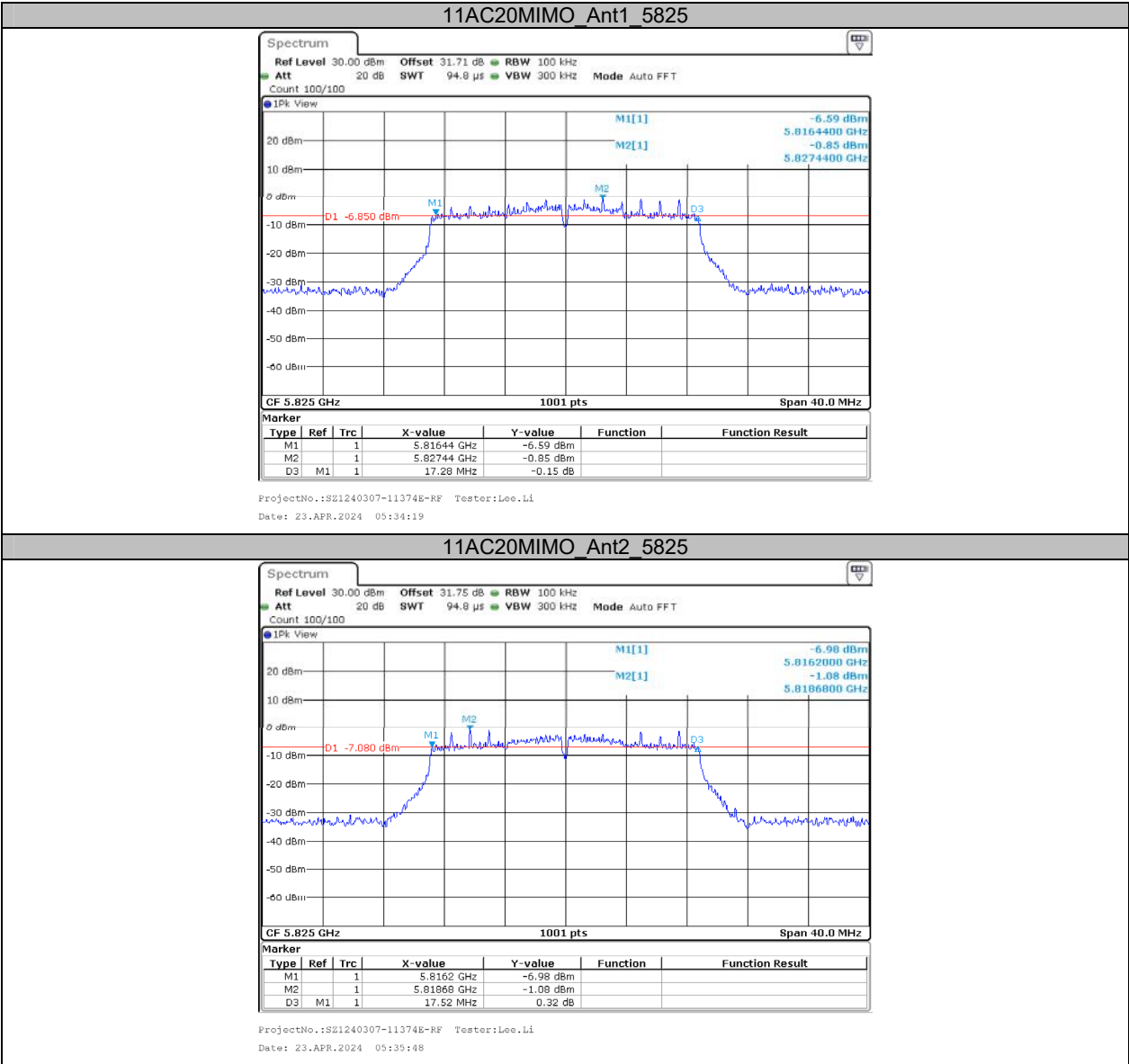


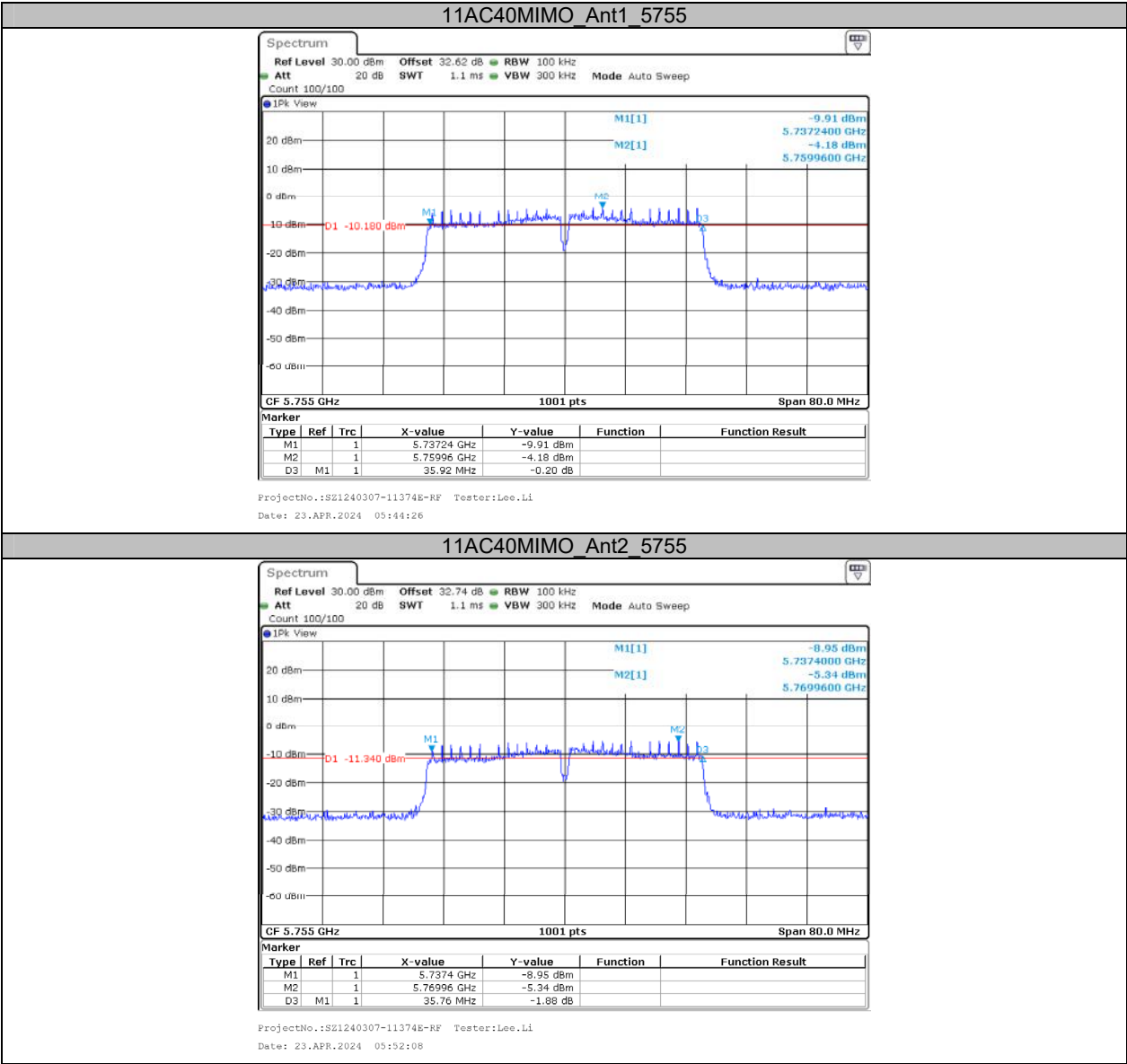


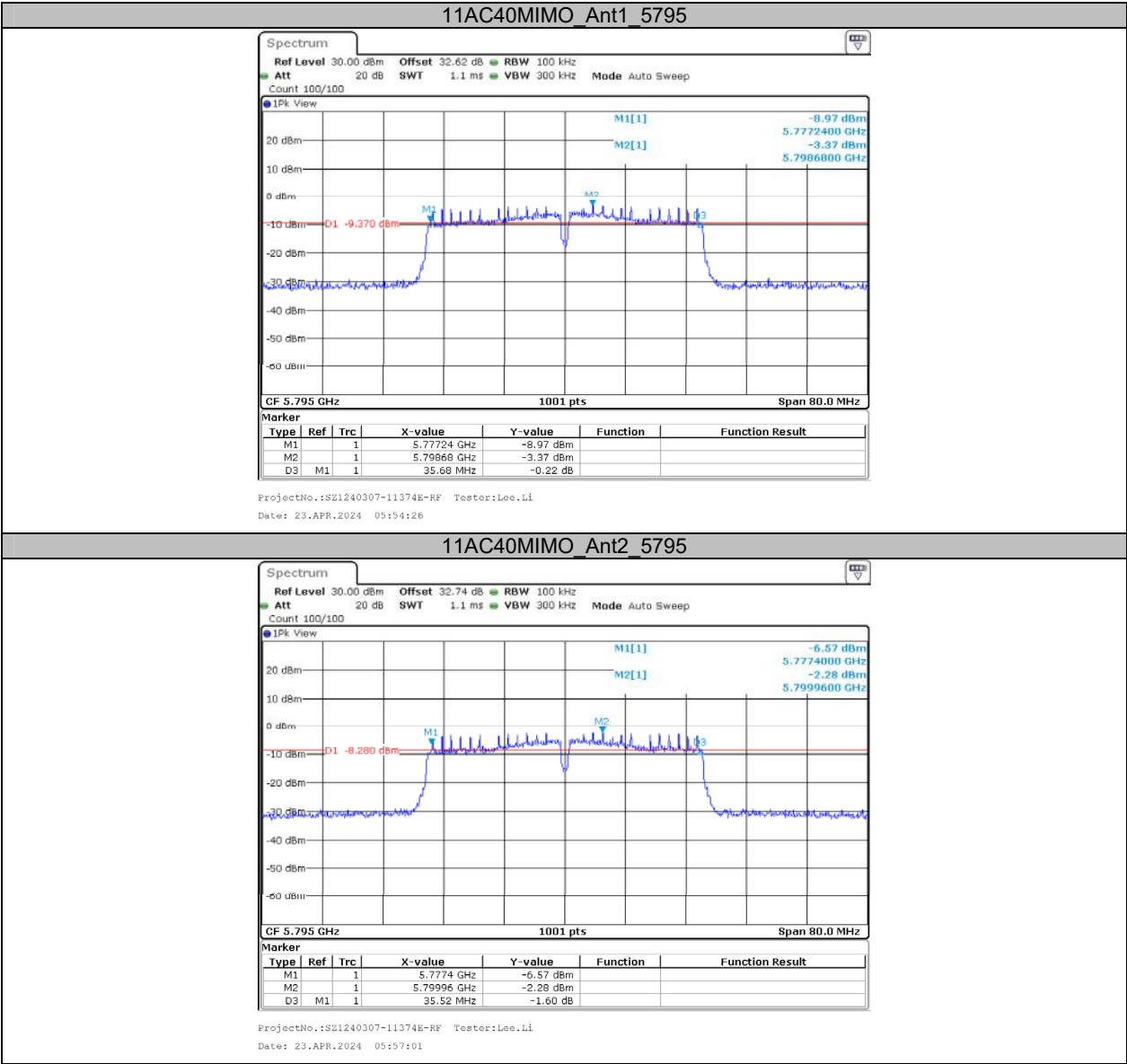


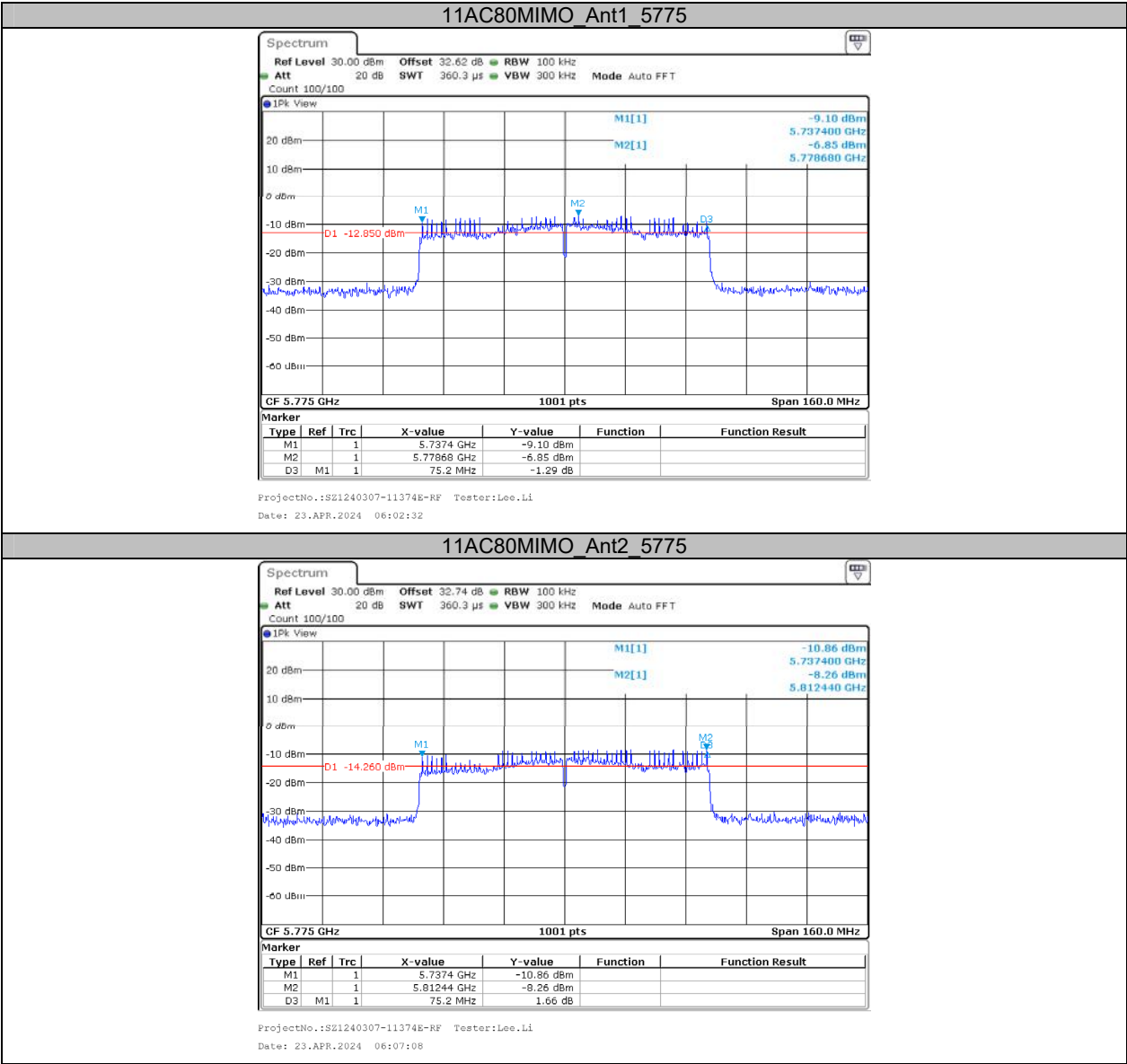


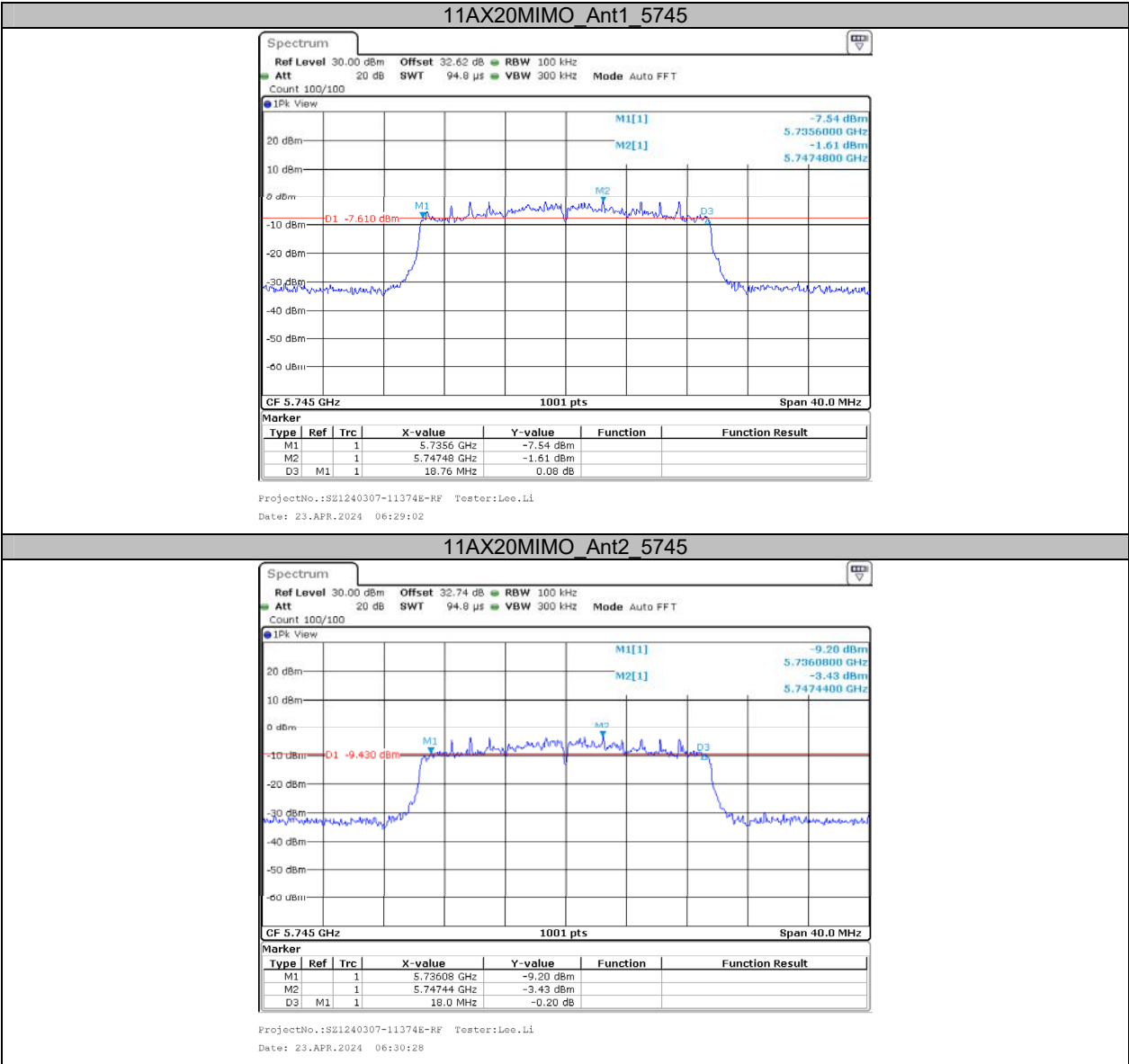


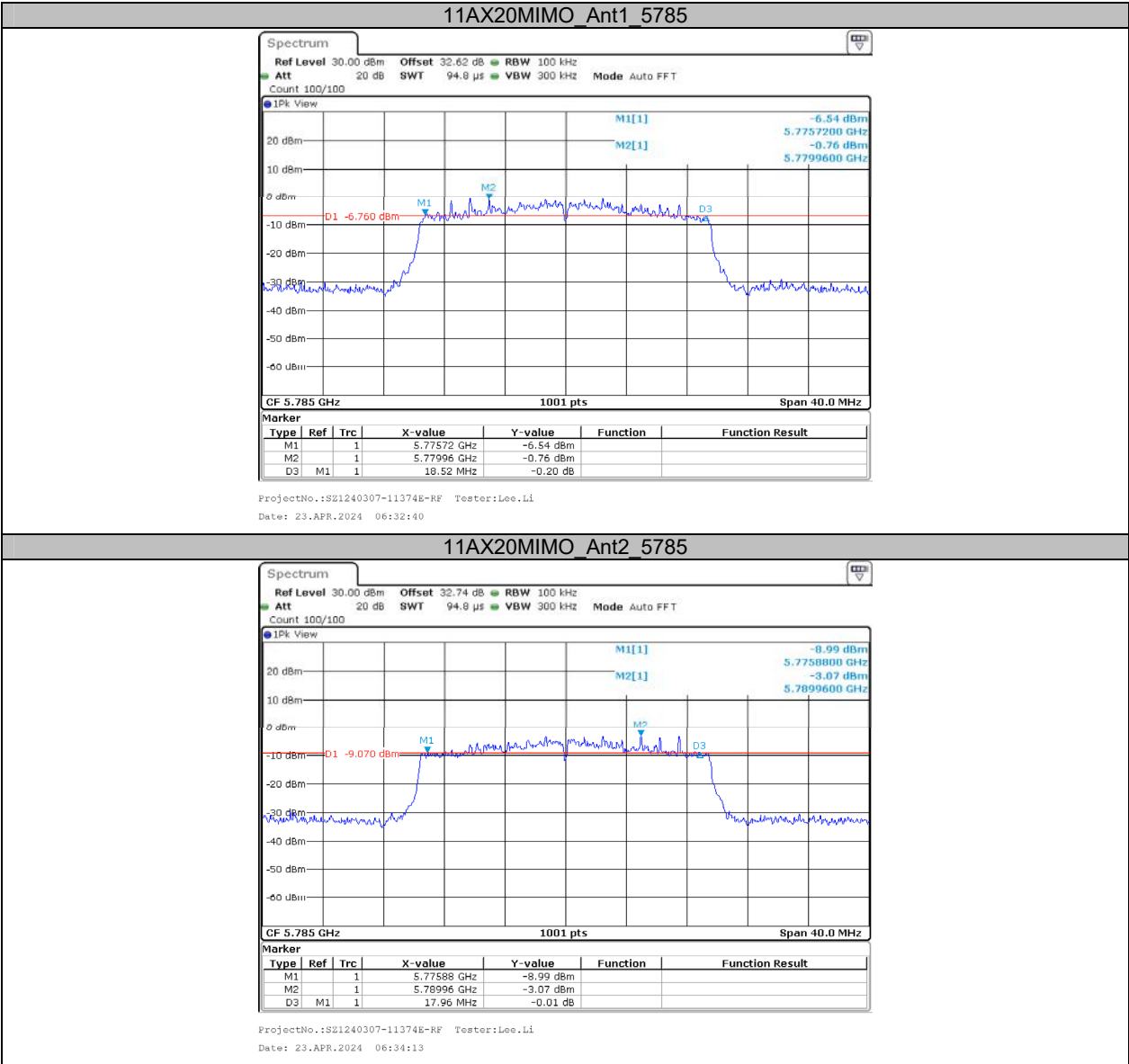


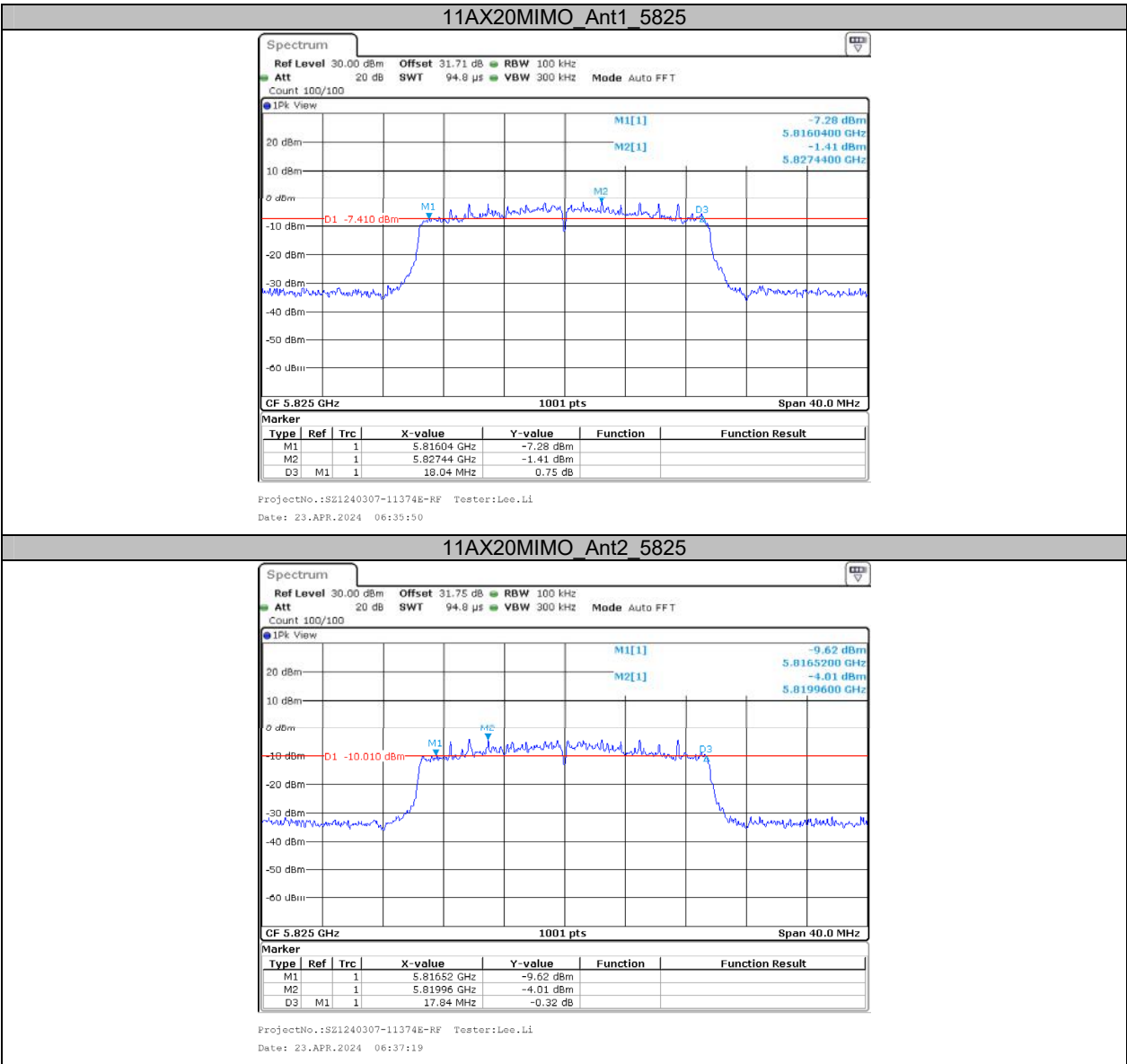


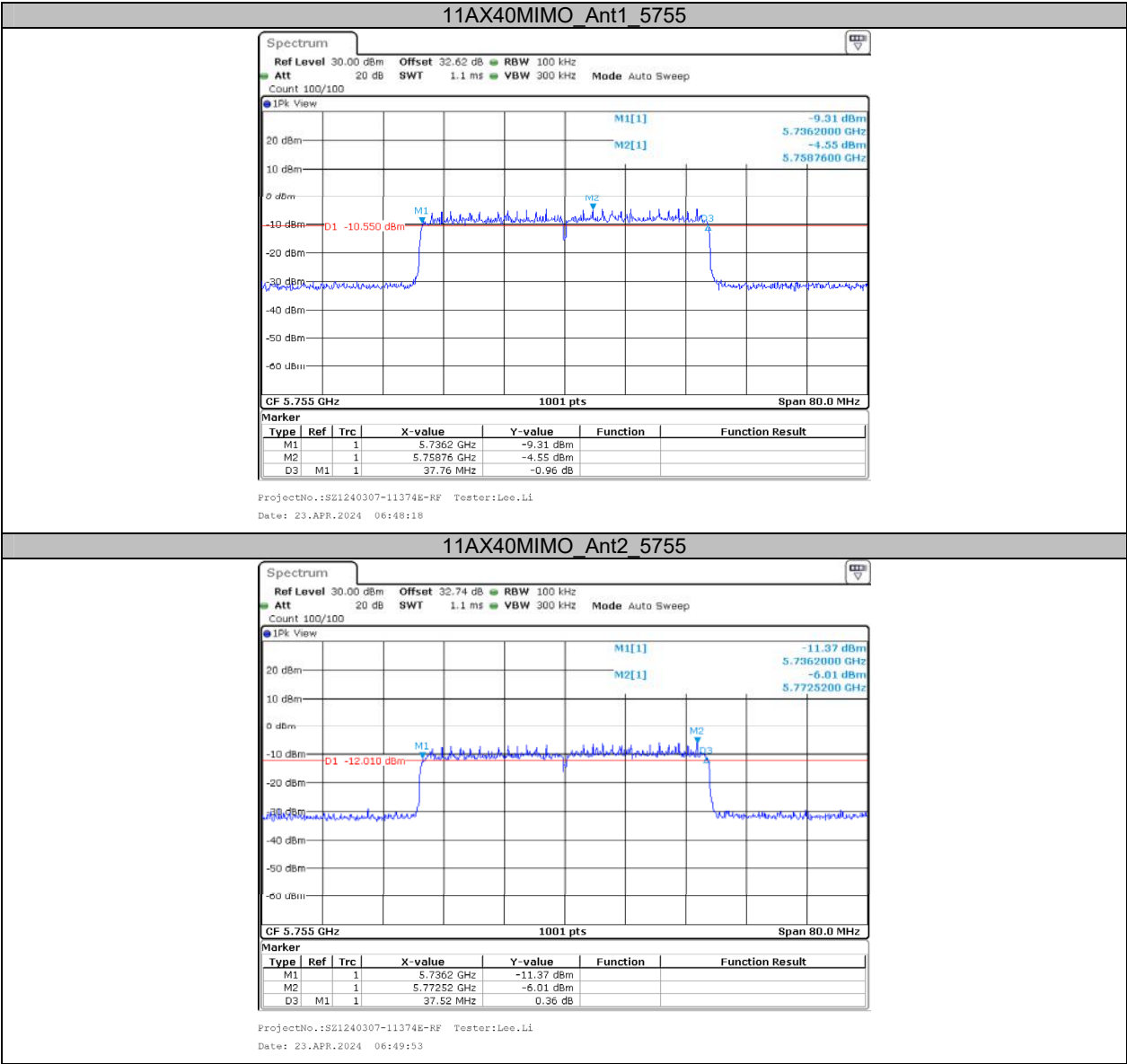


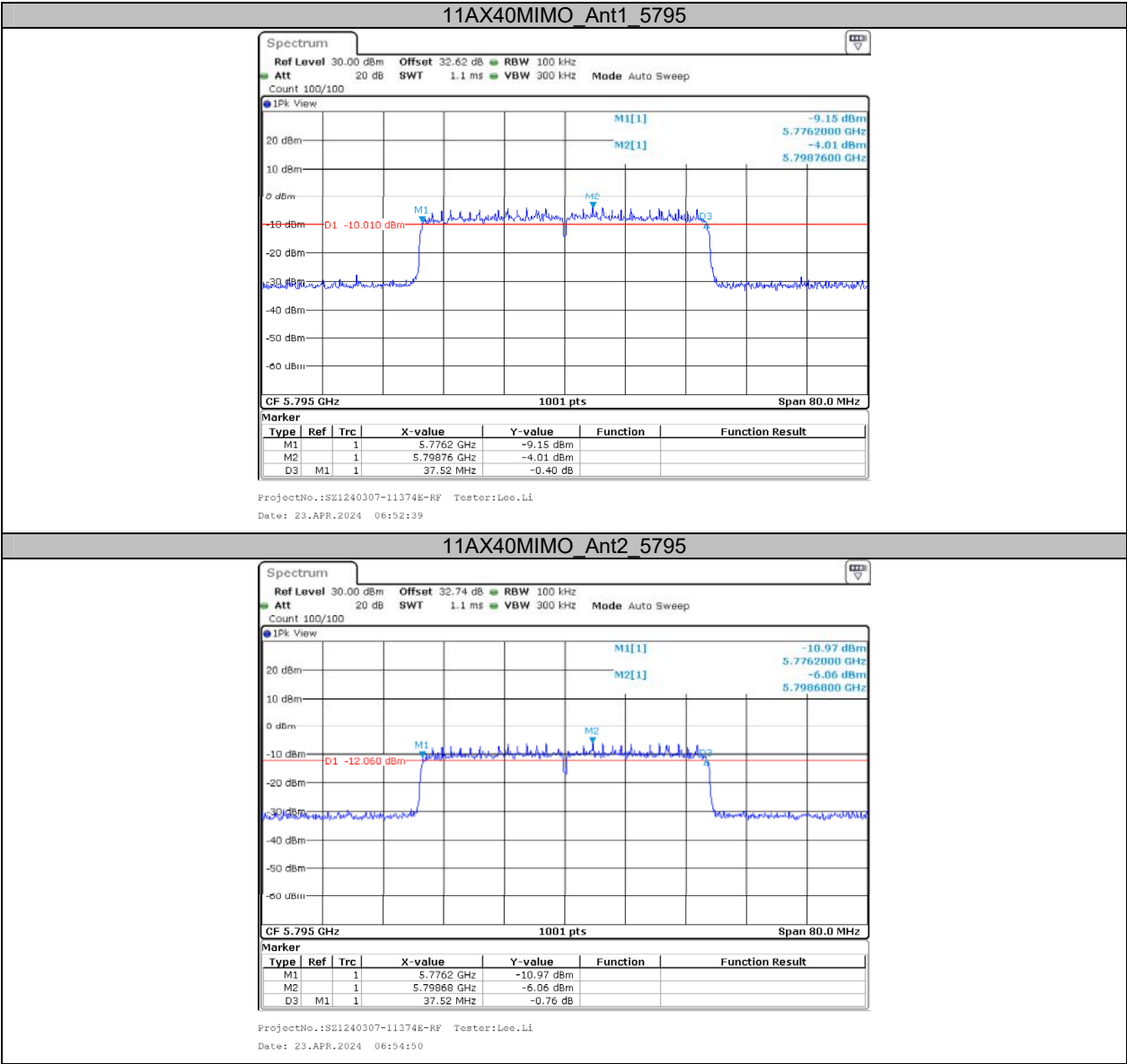


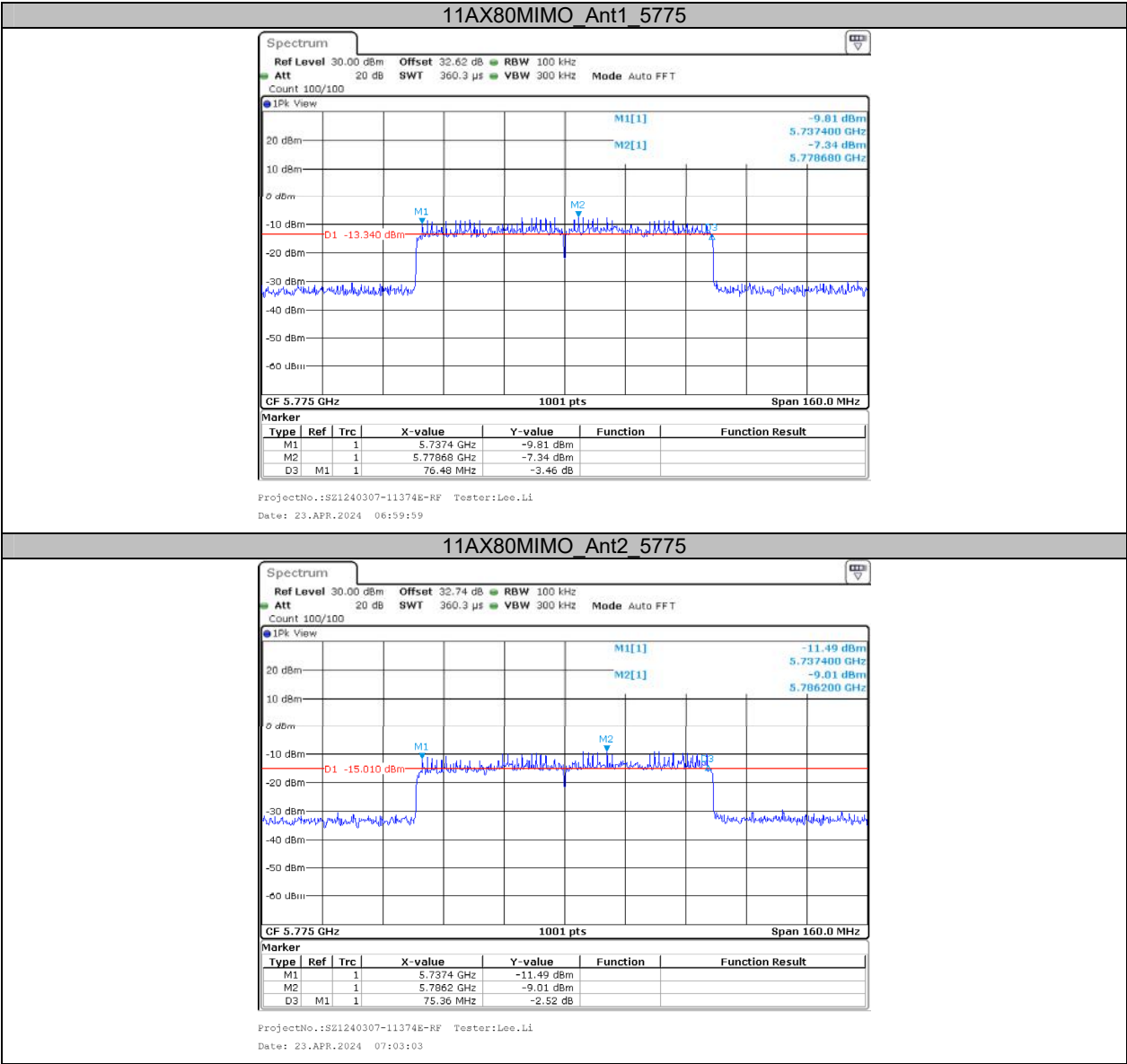










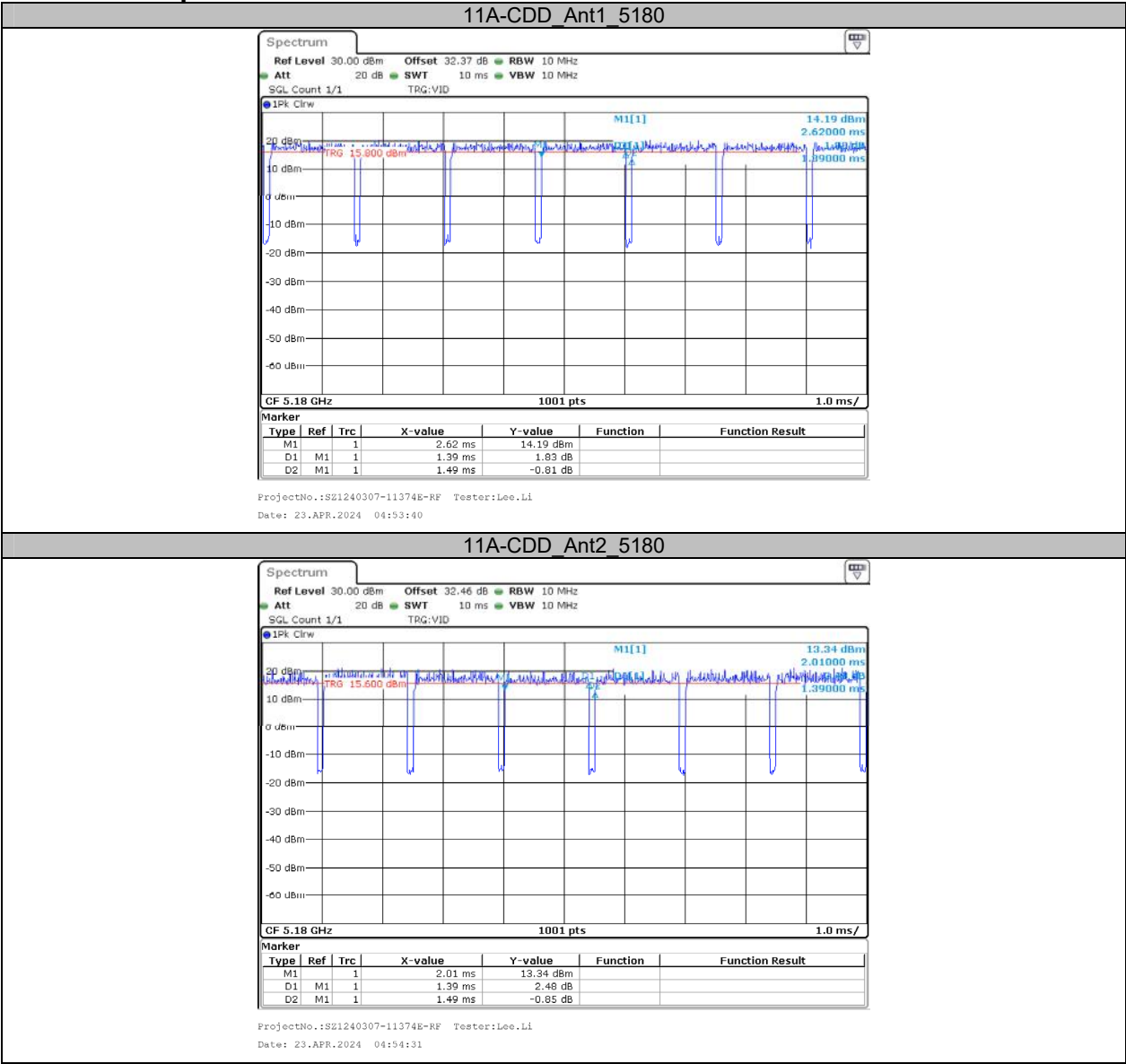


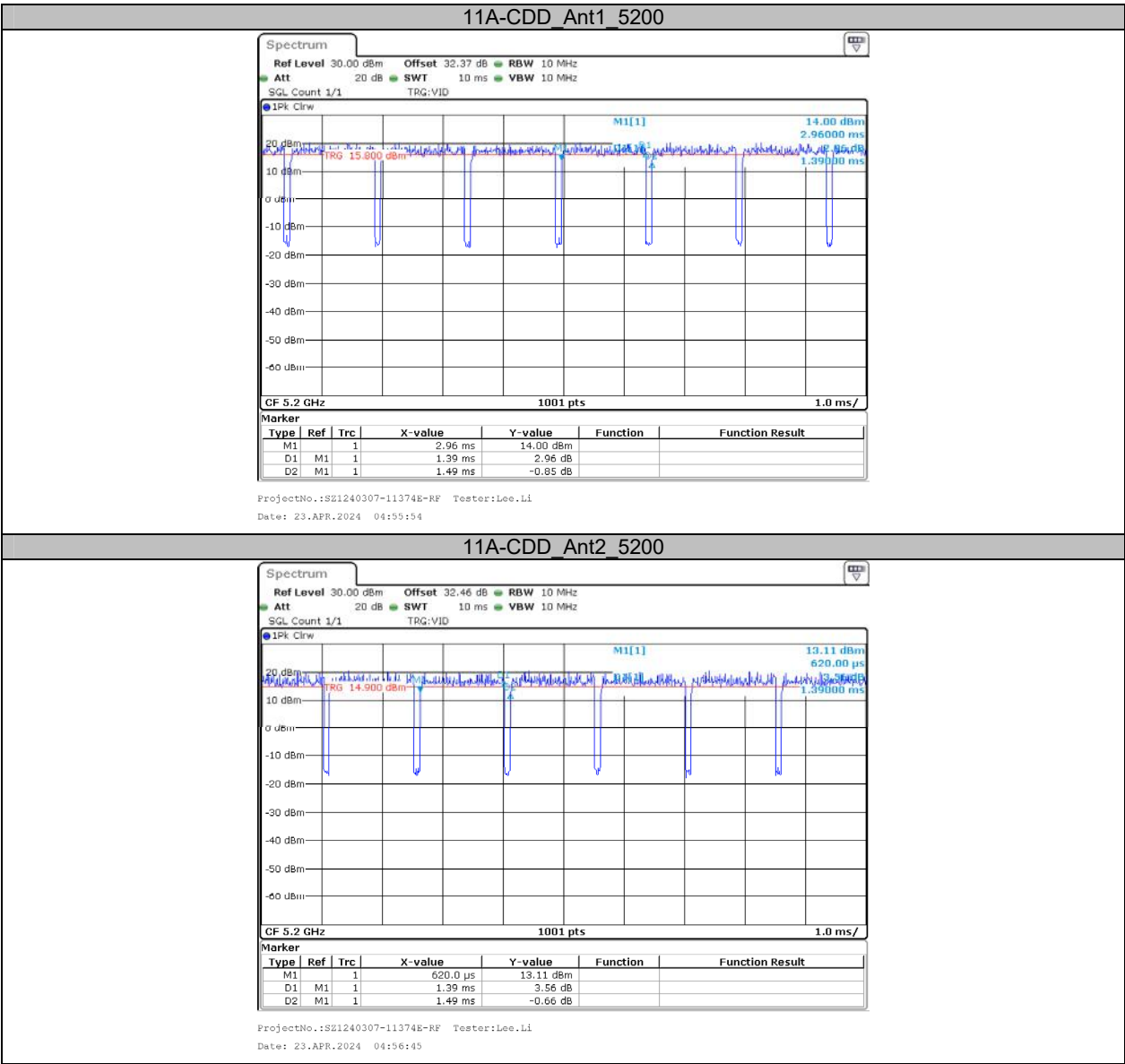
Appendix B: Duty Cycle**Test Result**

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T (Hz)	VBW Setting
11A-CDD	Ant1	5180	1.39	1.49	93.29	719	1000
	Ant2	5180	1.39	1.49	93.29	719	1000
	Ant1	5200	1.39	1.49	93.29	719	1000
	Ant2	5200	1.39	1.49	93.29	719	1000
	Ant1	5240	1.39	1.49	93.29	719	1000
	Ant2	5240	1.39	1.49	93.29	719	1000
	Ant1	5745	1.39	1.49	93.29	719	1000
	Ant2	5745	1.39	1.49	93.29	719	1000
	Ant1	5785	1.39	1.49	93.29	719	1000
	Ant2	5785	1.39	1.49	93.29	719	1000
	Ant1	5825	1.39	1.49	93.29	719	1000
	Ant2	5825	1.39	1.49	93.29	719	1000
11AC20MIMO	Ant1	5180	1.31	1.41	92.91	763	1000
	Ant2	5180	1.31	1.41	92.91	763	1000
	Ant1	5200	1.31	1.41	92.91	763	1000
	Ant2	5200	1.31	1.41	92.91	763	1000
	Ant1	5240	1.31	1.41	92.91	763	1000
	Ant2	5240	1.31	1.41	92.91	763	1000
	Ant1	5745	1.31	1.41	92.91	763	1000
	Ant2	5745	1.31	1.41	92.91	763	1000
	Ant1	5785	1.31	1.41	92.91	763	1000
	Ant2	5785	1.31	1.41	92.91	763	1000
	Ant1	5825	1.31	1.41	92.91	763	1000
	Ant2	5825	1.31	1.41	92.91	763	1000
11AC40MIMO	Ant1	5190	0.65	0.75	86.67	1538	3000
	Ant2	5190	0.65	0.75	86.67	1538	3000
	Ant1	5230	0.65	0.75	86.67	1538	3000
	Ant2	5230	0.65	0.75	86.67	1538	3000
	Ant1	5755	0.65	0.75	86.67	1538	3000
	Ant2	5755	0.65	0.75	86.67	1538	3000
	Ant1	5795	0.65	0.75	86.67	1538	3000
	Ant2	5795	0.65	0.75	86.67	1538	3000
11AC80MIMO	Ant1	5210	0.32	0.42	76.19	3125	5000
	Ant2	5210	0.32	0.42	76.19	3125	5000
	Ant1	5775	0.32	0.42	76.19	3125	5000
	Ant2	5775	0.32	0.42	76.19	3125	5000

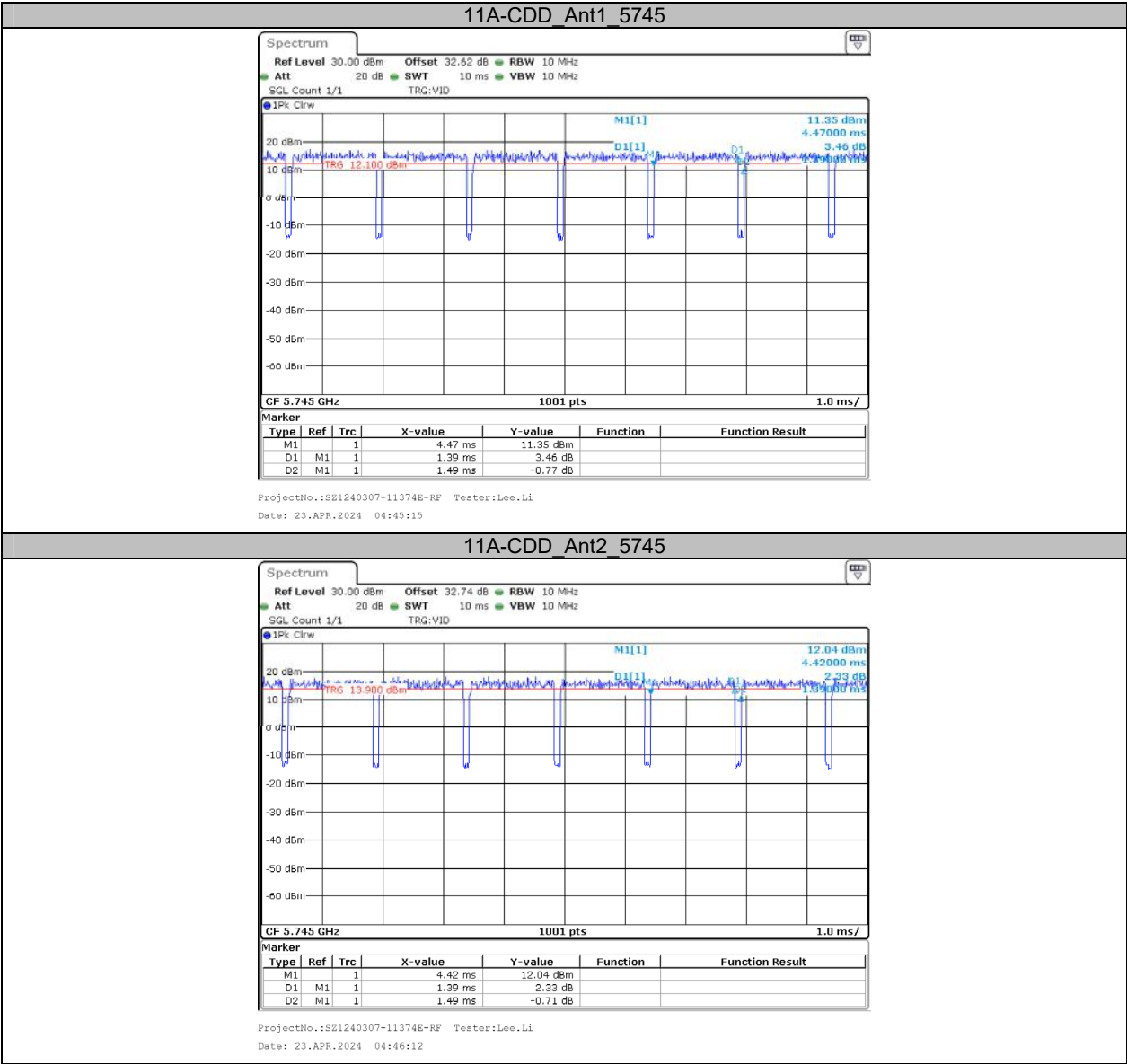
Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T (Hz)	VBW Setting
11AX20MIMO	Ant1	5180	1.02	1.12	91.07	980	1000
	Ant2	5180	1.02	1.12	91.07	980	1000
	Ant1	5200	1.02	1.12	91.07	980	1000
	Ant2	5200	1.02	1.12	91.07	980	1000
	Ant1	5240	1.02	1.12	91.07	980	1000
	Ant2	5240	1.02	1.12	91.07	980	1000
	Ant1	5745	1.02	1.12	91.07	980	1000
	Ant2	5745	1.02	1.12	91.07	980	1000
	Ant1	5785	1.02	1.12	91.07	980	1000
	Ant2	5785	1.02	1.12	91.07	980	1000
	Ant1	5825	1.02	1.12	91.07	980	1000
	Ant2	5825	1.02	1.12	91.07	980	1000
11AX40MIMO	Ant1	5190	0.54	0.64	84.38	1852	3000
	Ant2	5190	0.54	0.64	84.38	1852	3000
	Ant1	5230	0.54	0.64	84.38	1852	3000
	Ant2	5230	0.54	0.64	84.38	1852	3000
	Ant1	5755	0.54	0.64	84.38	1852	3000
	Ant2	5755	0.54	0.64	84.38	1852	3000
	Ant1	5795	0.54	0.64	84.38	1852	3000
	Ant2	5795	0.54	0.64	84.38	1852	3000
11AX80MIMO	Ant1	5210	0.29	0.39	74.36	3448	5000
	Ant2	5210	0.29	0.39	74.36	3448	5000
	Ant1	5775	0.29	0.39	74.36	3448	5000
	Ant2	5775	0.29	0.39	74.36	3448	5000

Test Graphs

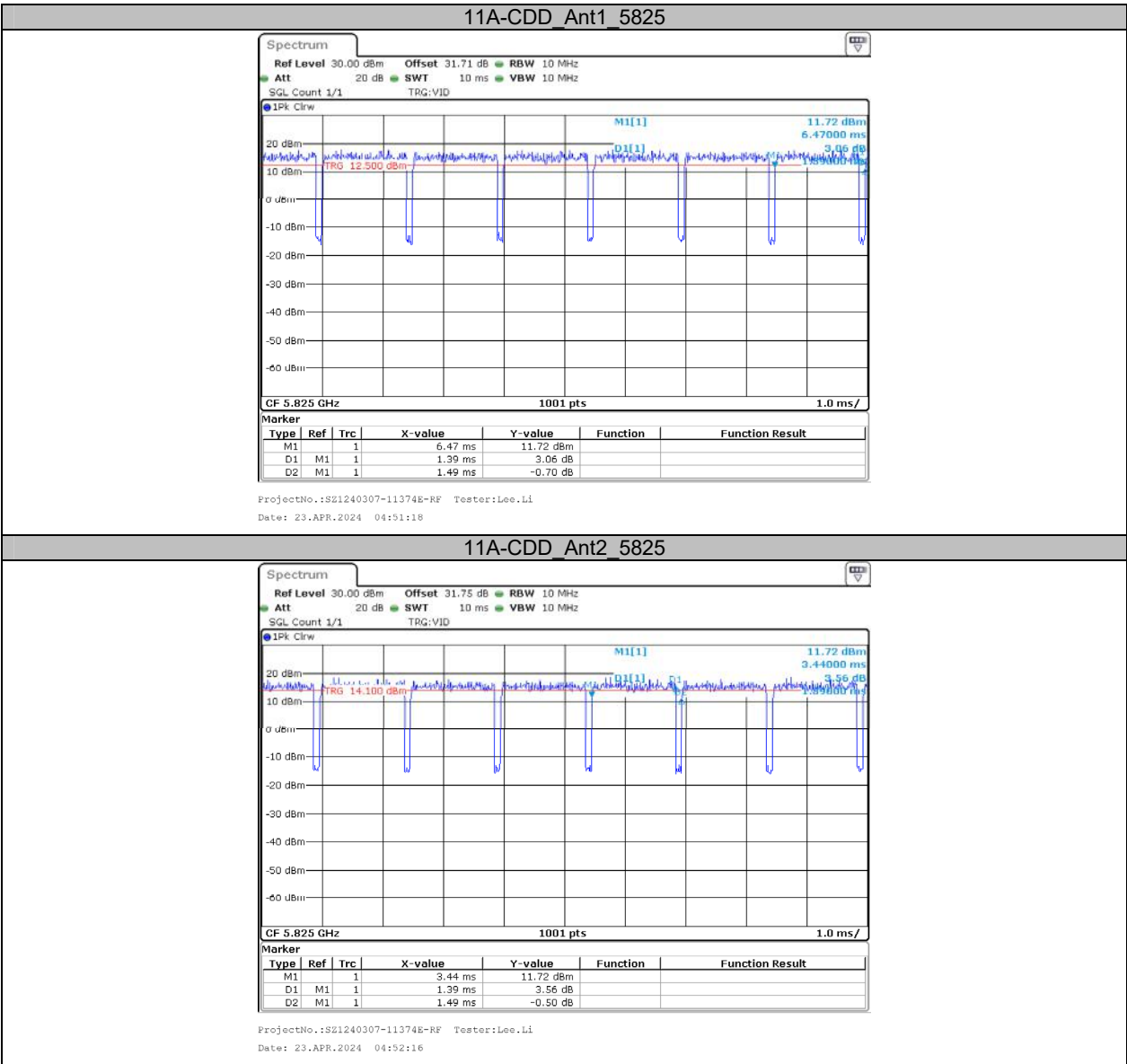












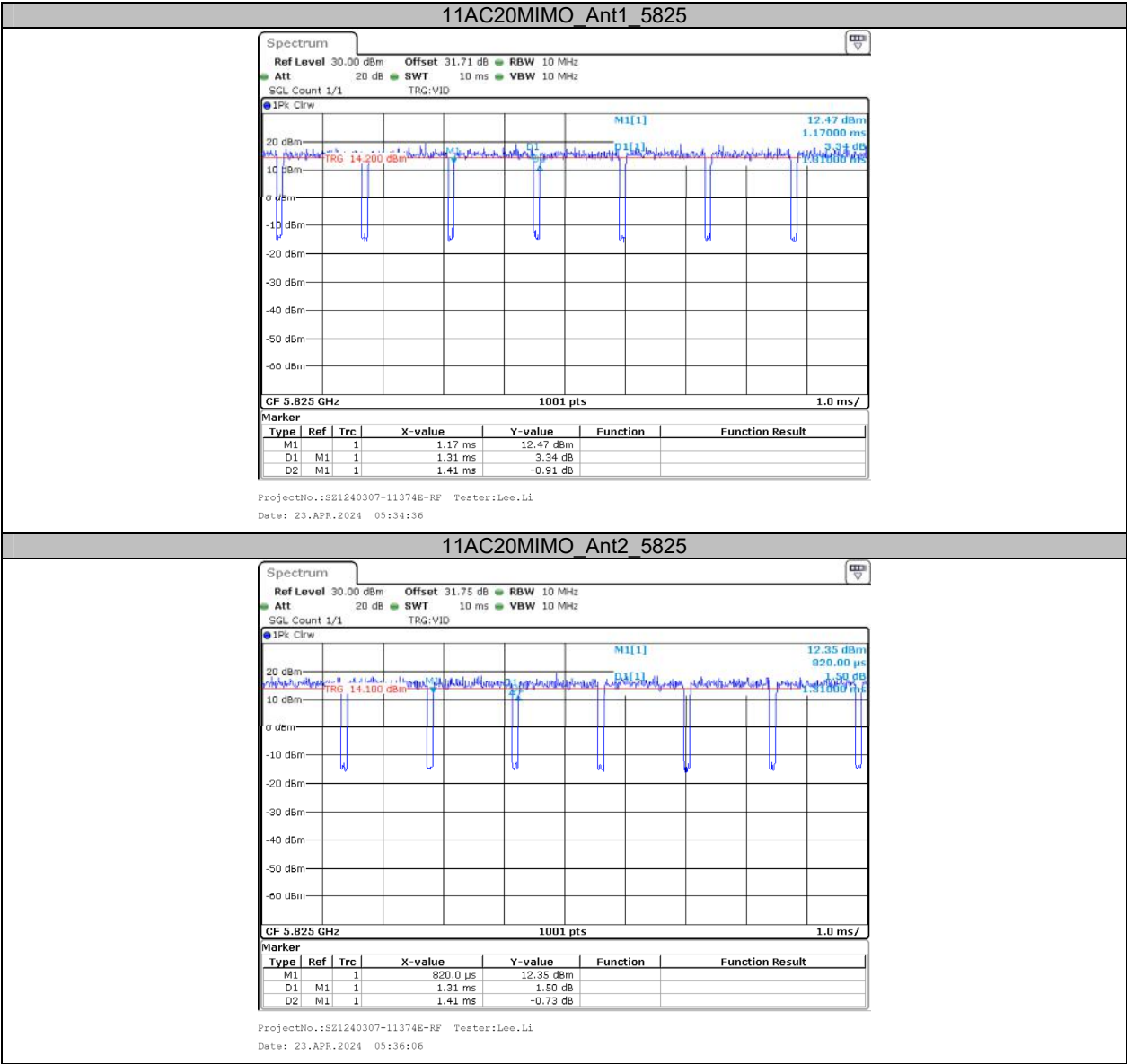








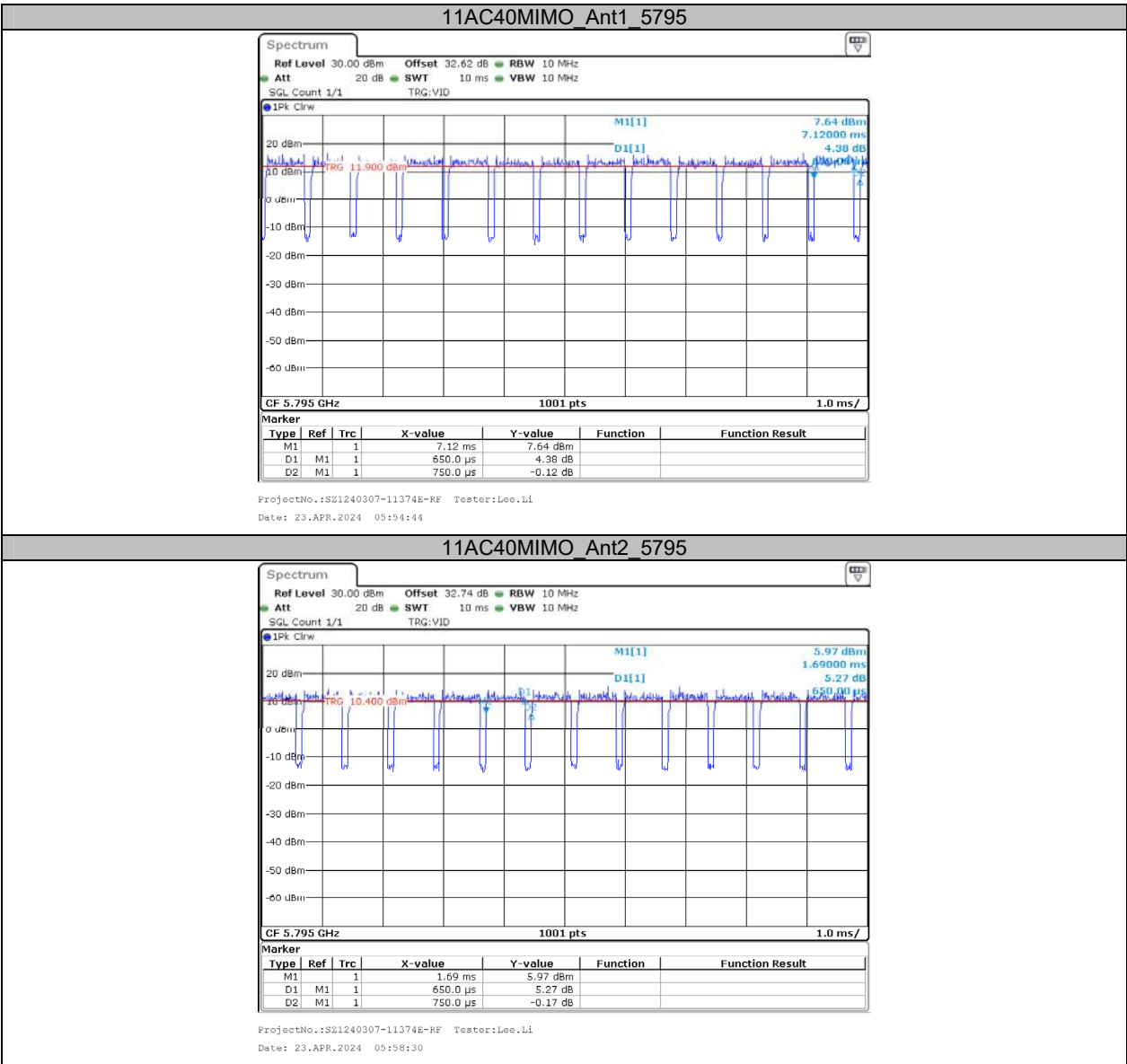




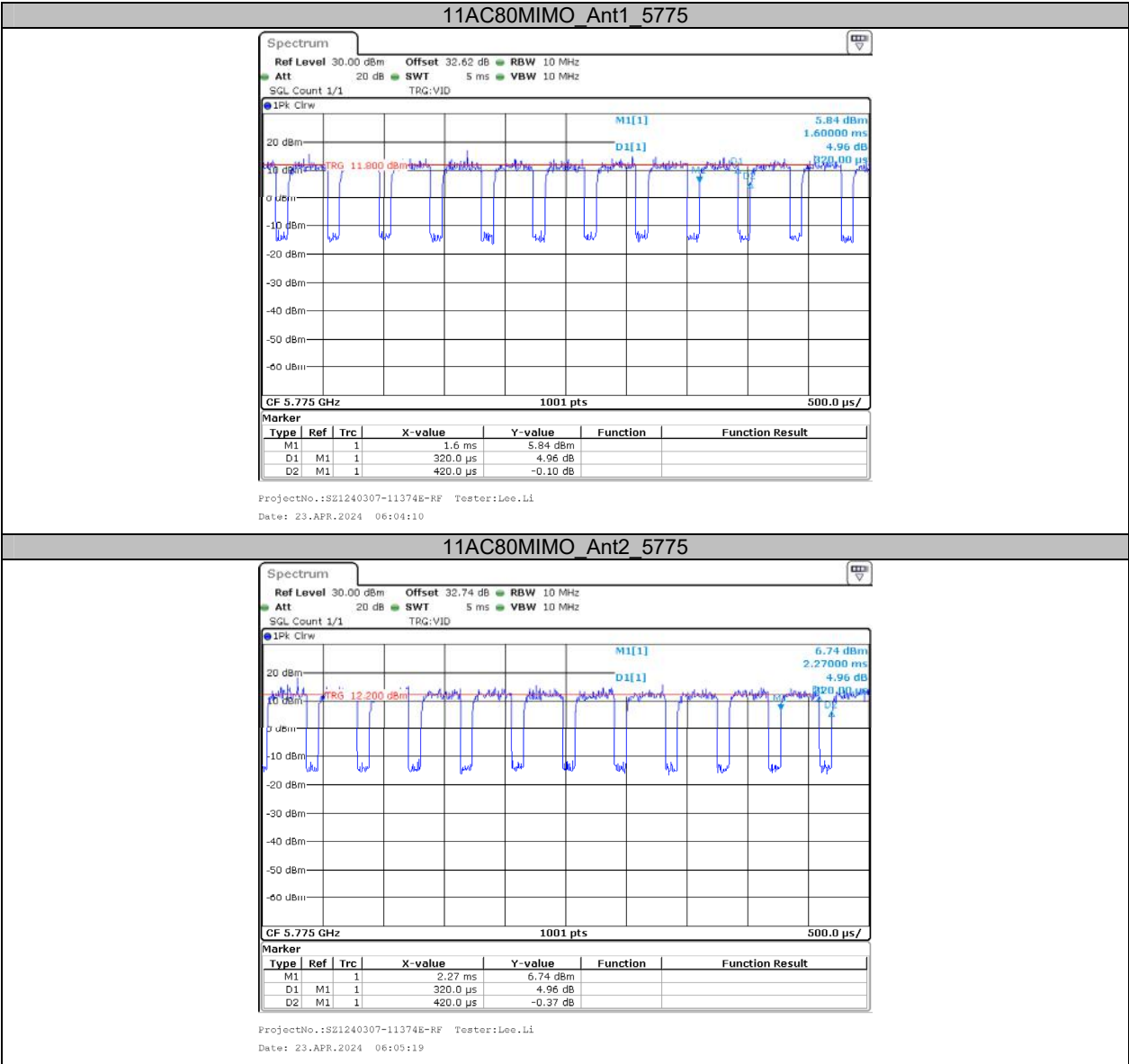










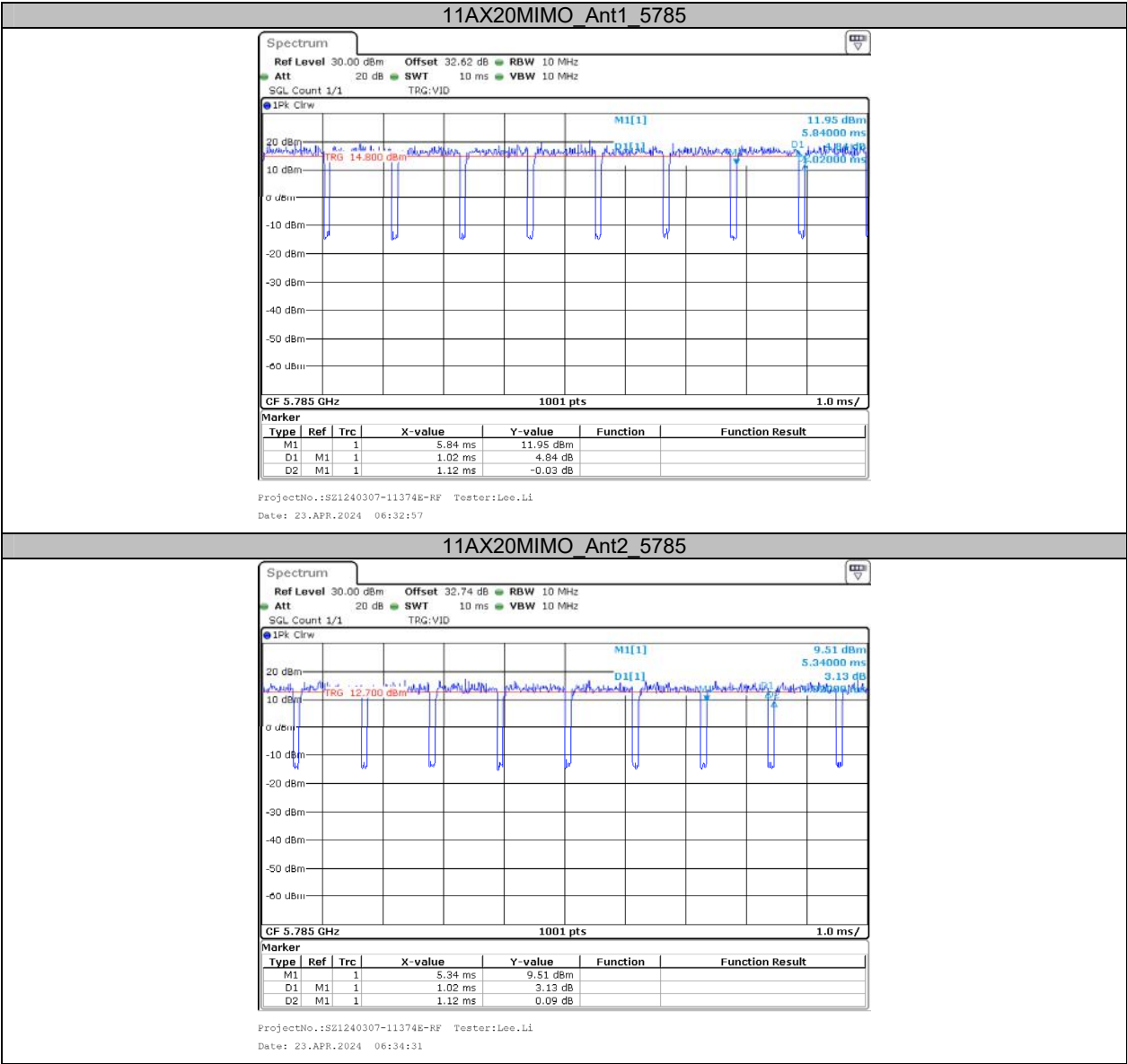


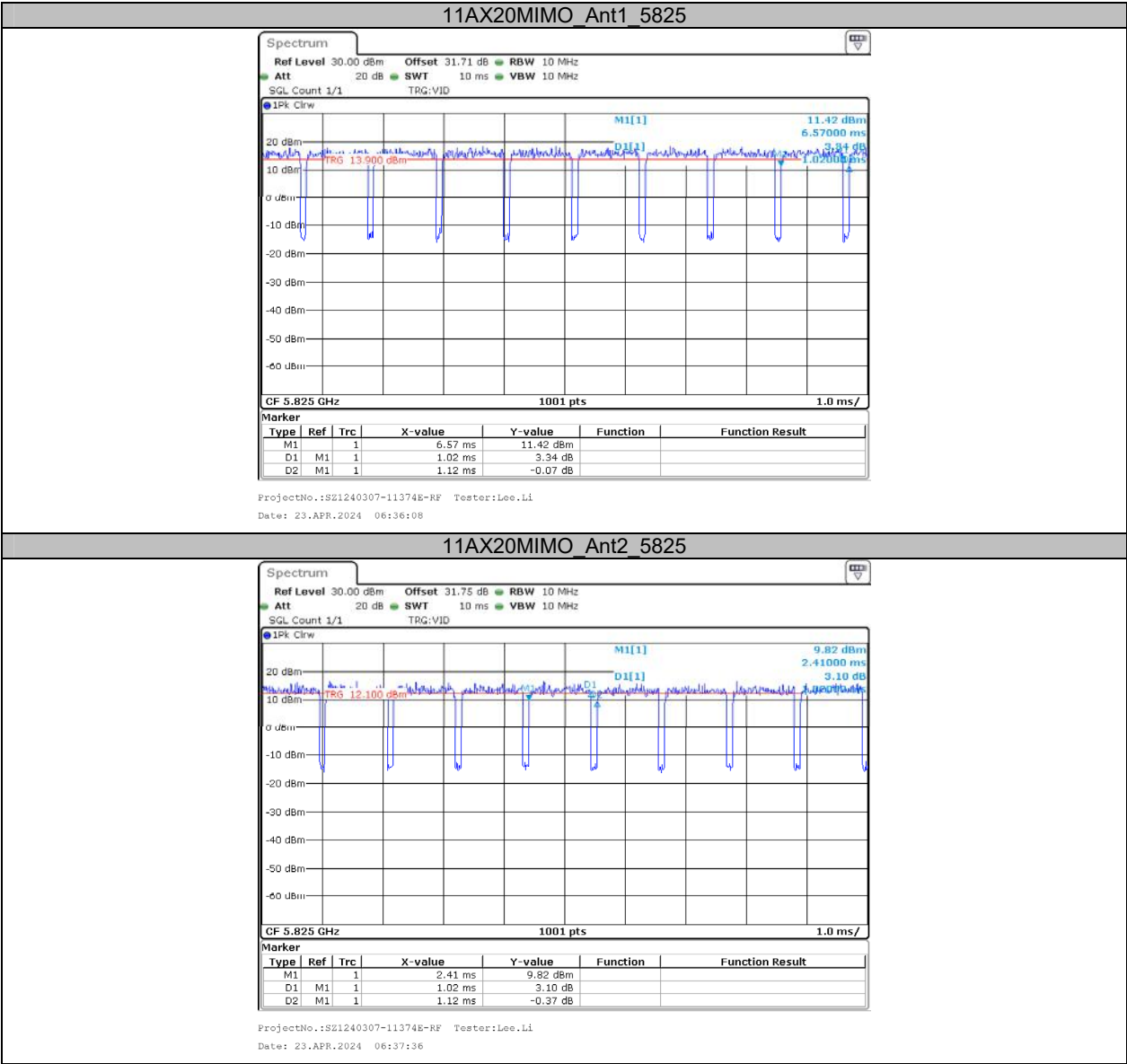








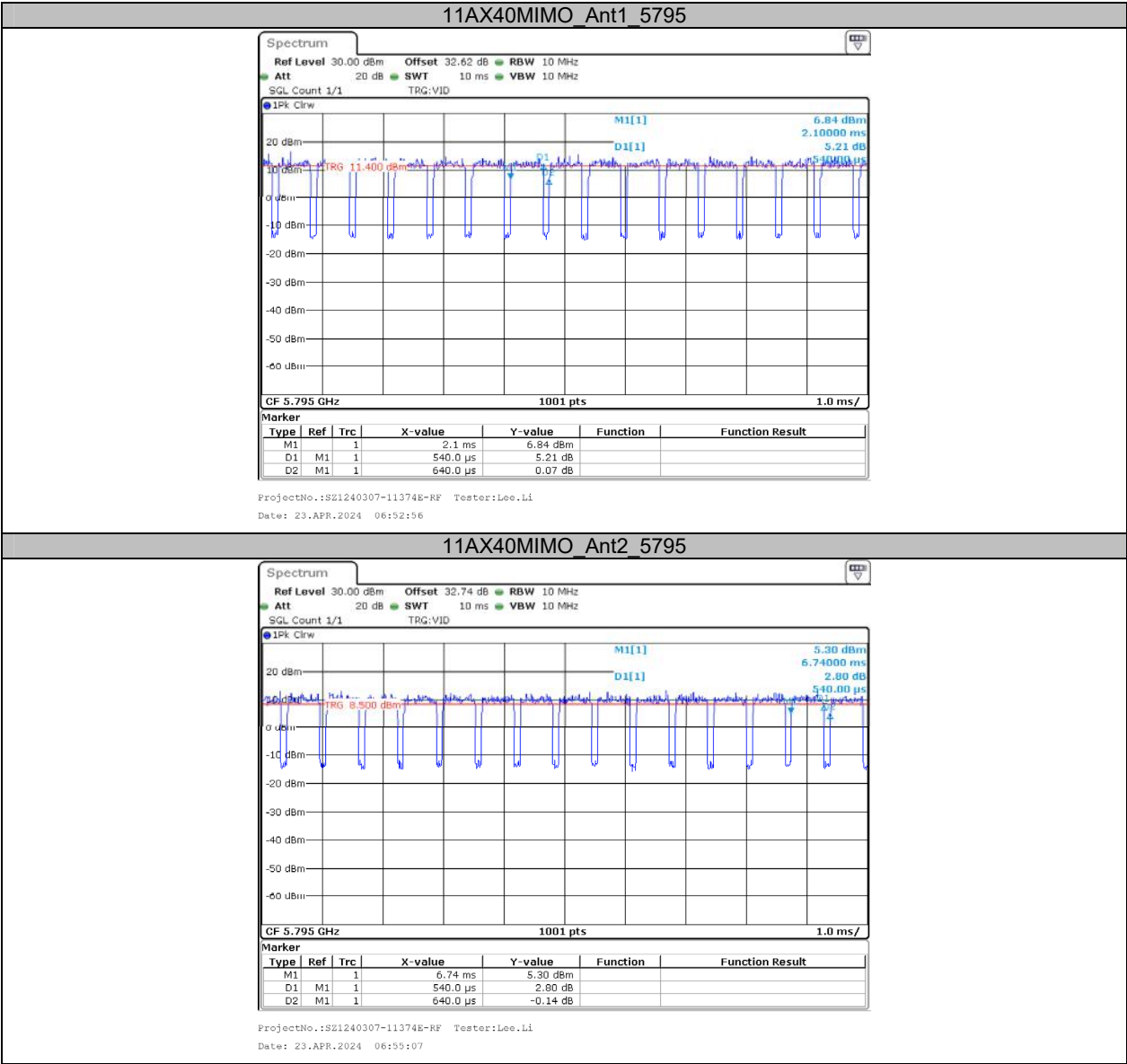
















Appendix C: Maximum conducted output power**Test Result Channel Power**

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11A-CDD	Ant1	5180	12.40	≤23.98	PASS
	Ant2	5180	11.80	≤23.98	PASS
	total	5180	15.12	≤23.98	PASS
	Ant1	5200	12.22	≤23.98	PASS
	Ant2	5200	11.54	≤23.98	PASS
	total	5200	14.90	≤23.98	PASS
	Ant1	5240	11.68	≤23.98	PASS
	Ant2	5240	11.51	≤23.98	PASS
	total	5240	14.61	≤23.98	PASS
	Ant1	5745	9.73	≤30.00	PASS
	Ant2	5745	10.42	≤30.00	PASS
	total	5745	13.10	≤30.00	PASS
	Ant1	5785	10.15	≤30.00	PASS
	Ant2	5785	10.75	≤30.00	PASS
	total	5785	13.47	≤30.00	PASS
	Ant1	5825	9.96	≤30.00	PASS
	Ant2	5825	10.21	≤30.00	PASS
	total	5825	13.10	≤30.00	PASS
11AC20MIMO	Ant1	5180	11.72	≤23.98	PASS
	Ant2	5180	12.10	≤23.98	PASS
	total	5180	14.92	≤23.98	PASS
	Ant1	5200	11.51	≤23.98	PASS
	Ant2	5200	11.75	≤23.98	PASS
	total	5200	14.64	≤23.98	PASS
	Ant1	5240	11.37	≤23.98	PASS
	Ant2	5240	11.37	≤23.98	PASS
	total	5240	14.38	≤23.98	PASS
	Ant1	5745	10.53	≤30.00	PASS
	Ant2	5745	8.38	≤30.00	PASS
	total	5745	12.60	≤30.00	PASS
	Ant1	5785	10.91	≤30.00	PASS
	Ant2	5785	8.69	≤30.00	PASS
	total	5785	12.95	≤30.00	PASS
	Ant1	5825	10.62	≤30.00	PASS
	Ant2	5825	8.17	≤30.00	PASS
	total	5825	12.58	≤30.00	PASS
11AC40MIMO	Ant1	5190	11.31	≤23.98	PASS
	Ant2	5190	11.51	≤23.98	PASS
	total	5190	14.42	≤23.98	PASS
	Ant1	5230	10.99	≤23.98	PASS
	Ant2	5230	11.09	≤23.98	PASS
	total	5230	14.05	≤23.98	PASS
	Ant1	5755	9.94	≤30.00	PASS
	Ant2	5755	8.42	≤30.00	PASS
	total	5755	12.26	≤30.00	PASS
	Ant1	5795	10.45	≤30.00	PASS
	Ant2	5795	8.68	≤30.00	PASS
	total	5795	12.66	≤30.00	PASS

Test Mode	Antenna	Frequency[MHz]	Result [dBm]	Limit [dBm]	Verdict
11AC80MIMO	Ant1	5210	10.93	≤ 23.98	PASS
	Ant2	5210	11.10	≤ 23.98	PASS
	total	5210	14.03	≤ 23.98	PASS
	Ant1	5775	10.18	≤ 30.00	PASS
	Ant2	5775	8.62	≤ 30.00	PASS
	total	5775	12.48	≤ 30.00	PASS
11AX20MIMO	Ant1	5180	12.04	≤ 23.98	PASS
	Ant2	5180	12.25	≤ 23.98	PASS
	total	5180	15.16	≤ 23.98	PASS
	Ant1	5200	11.69	≤ 23.98	PASS
	Ant2	5200	12.04	≤ 23.98	PASS
	total	5200	14.88	≤ 23.98	PASS
	Ant1	5240	11.63	≤ 23.98	PASS
	Ant2	5240	11.41	≤ 23.98	PASS
	total	5240	14.53	≤ 23.98	PASS
	Ant1	5745	10.62	≤ 30.00	PASS
	Ant2	5745	8.28	≤ 30.00	PASS
	total	5745	12.62	≤ 30.00	PASS
	Ant1	5785	11.30	≤ 30.00	PASS
	Ant2	5785	8.69	≤ 30.00	PASS
	total	5785	13.20	≤ 30.00	PASS
	Ant1	5825	10.61	≤ 30.00	PASS
	Ant2	5825	8.05	≤ 30.00	PASS
	total	5825	12.53	≤ 30.00	PASS
11AX40MIMO	Ant1	5190	11.39	≤ 23.98	PASS
	Ant2	5190	11.58	≤ 23.98	PASS
	total	5190	14.50	≤ 23.98	PASS
	Ant1	5230	11.28	≤ 23.98	PASS
	Ant2	5230	11.17	≤ 23.98	PASS
	total	5230	14.24	≤ 23.98	PASS
	Ant1	5755	10.05	≤ 30.00	PASS
	Ant2	5755	8.08	≤ 30.00	PASS
	total	5755	12.19	≤ 30.00	PASS
	Ant1	5795	10.48	≤ 30.00	PASS
	Ant2	5795	8.24	≤ 30.00	PASS
	total	5795	12.51	≤ 30.00	PASS
11AX80MIMO	Ant1	5210	11.19	≤ 23.98	PASS
	Ant2	5210	11.13	≤ 23.98	PASS
	total	5210	14.17	≤ 23.98	PASS
	Ant1	5775	10.31	≤ 30.00	PASS
	Ant2	5775	8.40	≤ 30.00	PASS
	total	5775	12.47	≤ 30.00	PASS

Note:

1. The Duty Cycle Factor is compensated in the graph.

2. The device employ CDD for MIMO, according to KDB 662911 D01 Multiple Transmitter Output v02r01, Directional gain = $G_{ANT} + \text{Array Gain}$

For power measurements on IEEE 802.11 devices:

$\text{Array Gain} = 0 \text{ dB}$ for $N_{ANT} \leq 4$;

For 5.2G Band:

$G_{ANT1} = 0.7 \text{ dBi}$, $G_{ANT2} = 1.5 \text{ dBi}$, use the higher antenna gain for calculate

So Directional gain = $1.5 \text{ dBi} + 0 \text{ dB} = 1.5 \text{ dBi} < 6$

For 5.8G Band:

$G_{ANT1} = 2.5 \text{ dBi}$, $G_{ANT2} = 2.3 \text{ dBi}$, use the higher antenna gain for calculate

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

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

Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A-CDD	Ant1	5180	2.10	≤11.00	PASS
	Ant2	5180	1.67	≤11.00	PASS
	total	5180	4.90	≤11.00	PASS
	Ant1	5200	1.99	≤11.00	PASS
	Ant2	5200	1.33	≤11.00	PASS
	total	5200	4.68	≤11.00	PASS
	Ant1	5240	1.33	≤11.00	PASS
	Ant2	5240	1.37	≤11.00	PASS
	total	5240	4.36	≤11.00	PASS
	Ant1	5745	-3.32	≤30.00	PASS
	Ant2	5745	-2.55	≤30.00	PASS
	total	5745	0.09	≤30.00	PASS
	Ant1	5785	-2.67	≤30.00	PASS
	Ant2	5785	-2.02	≤30.00	PASS
	total	5785	0.68	≤30.00	PASS
	Ant1	5825	-2.96	≤30.00	PASS
	Ant2	5825	-2.31	≤30.00	PASS
	total	5825	0.39	≤30.00	PASS
11AC20MIMO	Ant1	5180	1.36	≤11.00	PASS
	Ant2	5180	1.66	≤11.00	PASS
	total	5180	4.52	≤11.00	PASS
	Ant1	5200	1.11	≤11.00	PASS
	Ant2	5200	1.41	≤11.00	PASS
	total	5200	4.27	≤11.00	PASS
	Ant1	5240	0.81	≤11.00	PASS
	Ant2	5240	0.94	≤11.00	PASS
	total	5240	3.89	≤11.00	PASS
	Ant1	5745	-2.84	≤30.00	PASS
	Ant2	5745	-4.85	≤30.00	PASS
	total	5745	-0.72	≤30.00	PASS
	Ant1	5785	-2.34	≤30.00	PASS
	Ant2	5785	-4.61	≤30.00	PASS
	total	5785	-0.32	≤30.00	PASS
	Ant1	5825	-2.60	≤30.00	PASS
	Ant2	5825	-5.14	≤30.00	PASS
	total	5825	-0.68	≤30.00	PASS
11AC40MIMO	Ant1	5190	-1.95	≤11.00	PASS
	Ant2	5190	-2.02	≤11.00	PASS
	total	5190	1.03	≤11.00	PASS
	Ant1	5230	-2.59	≤11.00	PASS
	Ant2	5230	-2.17	≤11.00	PASS
	total	5230	0.64	≤11.00	PASS
	Ant1	5755	-6.42	≤30.00	PASS
	Ant2	5755	-8.00	≤30.00	PASS
	total	5755	-4.13	≤30.00	PASS
	Ant1	5795	-5.71	≤30.00	PASS
	Ant2	5795	-7.42	≤30.00	PASS
	total	5795	-3.47	≤30.00	PASS

Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11AC80MIMO	Ant1	5210	-5.43	≤11.00	PASS
	Ant2	5210	-5.22	≤11.00	PASS
	total	5210	-2.31	≤11.00	PASS
	Ant1	5775	-8.82	≤30.00	PASS
	Ant2	5775	-10.60	≤30.00	PASS
	total	5775	-6.61	≤30.00	PASS
11AX20MIMO	Ant1	5180	1.73	≤11.00	PASS
	Ant2	5180	1.90	≤11.00	PASS
	total	5180	4.83	≤11.00	PASS
	Ant1	5200	1.24	≤11.00	PASS
	Ant2	5200	1.51	≤11.00	PASS
	total	5200	4.39	≤11.00	PASS
	Ant1	5240	1.24	≤11.00	PASS
	Ant2	5240	1.00	≤11.00	PASS
	total	5240	4.13	≤11.00	PASS
	Ant1	5745	-2.67	≤30.00	PASS
	Ant2	5745	-5.12	≤30.00	PASS
	total	5745	-0.71	≤30.00	PASS
	Ant1	5785	-2.09	≤30.00	PASS
	Ant2	5785	-4.54	≤30.00	PASS
	total	5785	-0.13	≤30.00	PASS
	Ant1	5825	-2.60	≤30.00	PASS
	Ant2	5825	-5.04	≤30.00	PASS
	total	5825	-0.64	≤30.00	PASS
11AX40MIMO	Ant1	5190	-3.42	≤11.00	PASS
	Ant2	5190	-3.16	≤11.00	PASS
	total	5190	-0.28	≤11.00	PASS
	Ant1	5230	-3.31	≤11.00	PASS
	Ant2	5230	-3.48	≤11.00	PASS
	total	5230	-0.38	≤11.00	PASS
	Ant1	5755	-7.28	≤30.00	PASS
	Ant2	5755	-9.32	≤30.00	PASS
	total	5755	-5.17	≤30.00	PASS
	Ant1	5795	-7.16	≤30.00	PASS
	Ant2	5795	-9.33	≤30.00	PASS
	total	5795	-5.10	≤30.00	PASS
11AX80MIMO	Ant1	5210	-6.41	≤11.00	PASS
	Ant2	5210	-6.25	≤11.00	PASS
	total	5210	-3.32	≤11.00	PASS
	Ant1	5775	-10.30	≤30.00	PASS
	Ant2	5775	-11.68	≤30.00	PASS
	total	5775	-7.93	≤30.00	PASS

Note:

1. The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2. The Duty Cycle Factor is compensated in the graph.

3. The device employ CDD for MIMO, according to KDB 662911 D01 Multiple Transmitter Output v02r01, Directional gain = $G_{ANT} + \text{Array Gain}$

For power spectral density (PSD) measurements:

$$\text{Array Gain} = 10\log(N_{ANT}), N_{ANT}=2$$

For 5.2G Band:

$G_{ANT1}=0.7\text{dBi}$, $G_{ANT2}=1.5\text{dBi}$, use the higher antenna gain for calculate

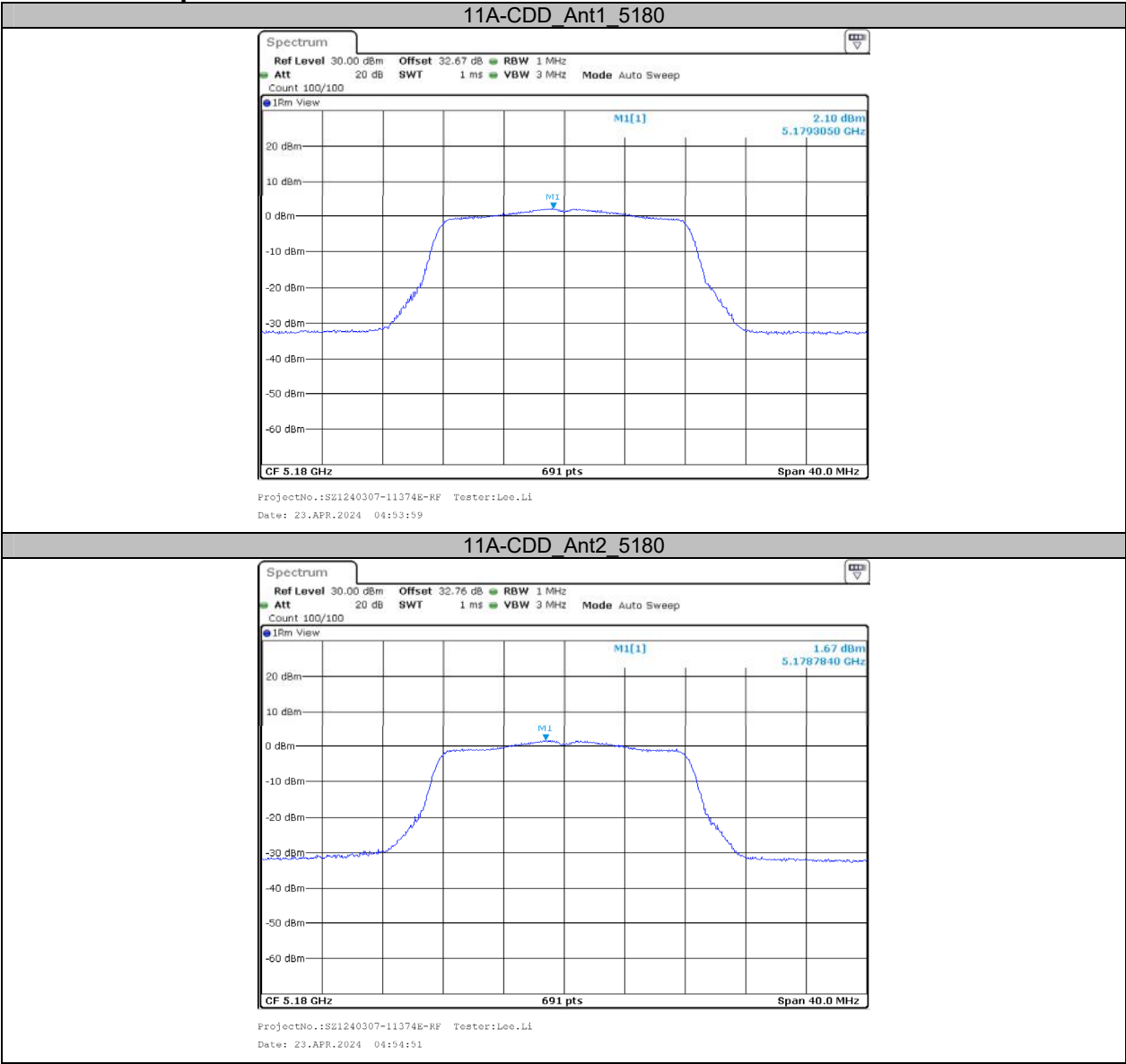
So Directional gain = $1.5\text{dBi} + 10\log(2)\text{dB} = 4.5\text{dBi} \leq 6$

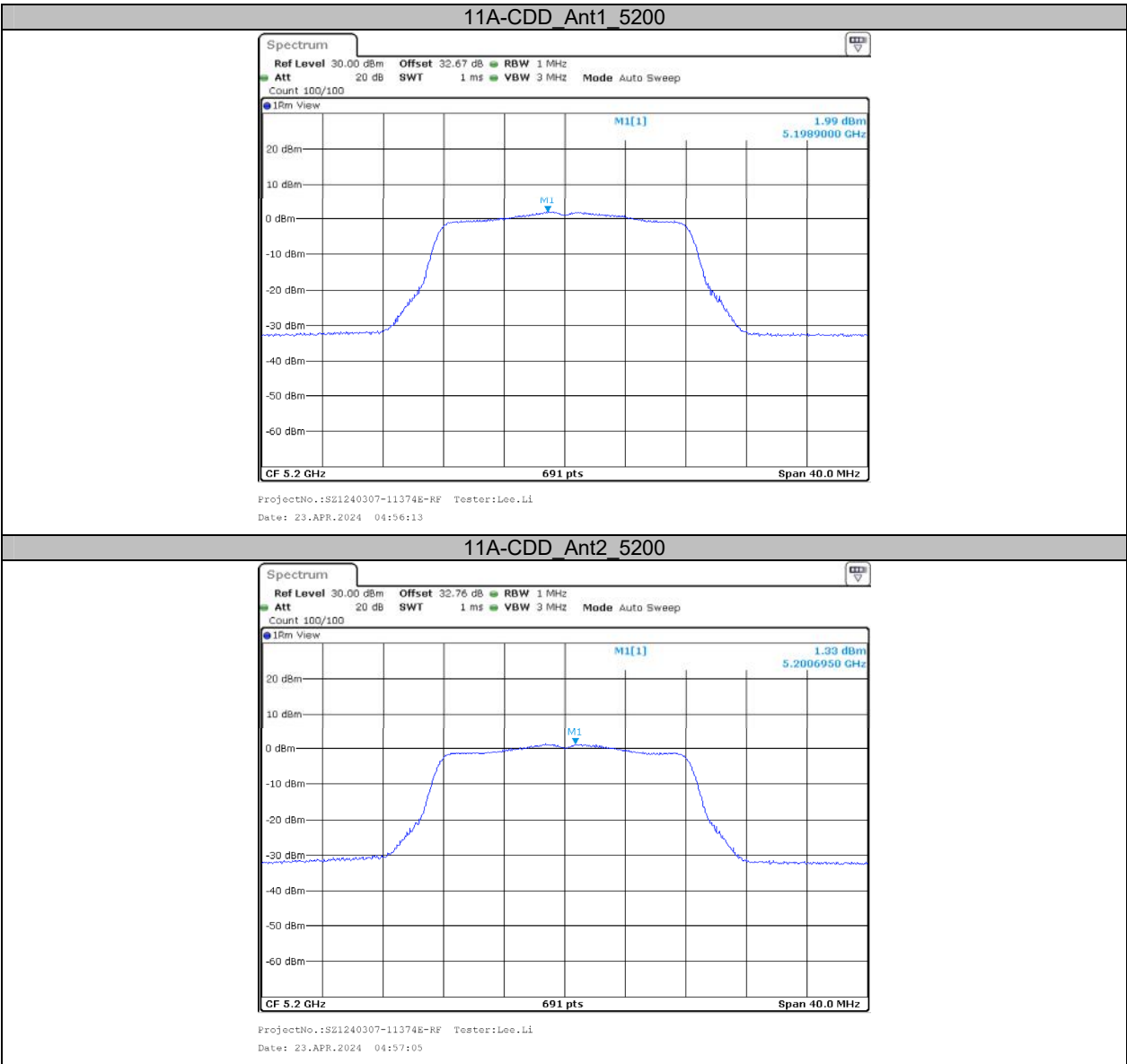
For 5.8G Band:

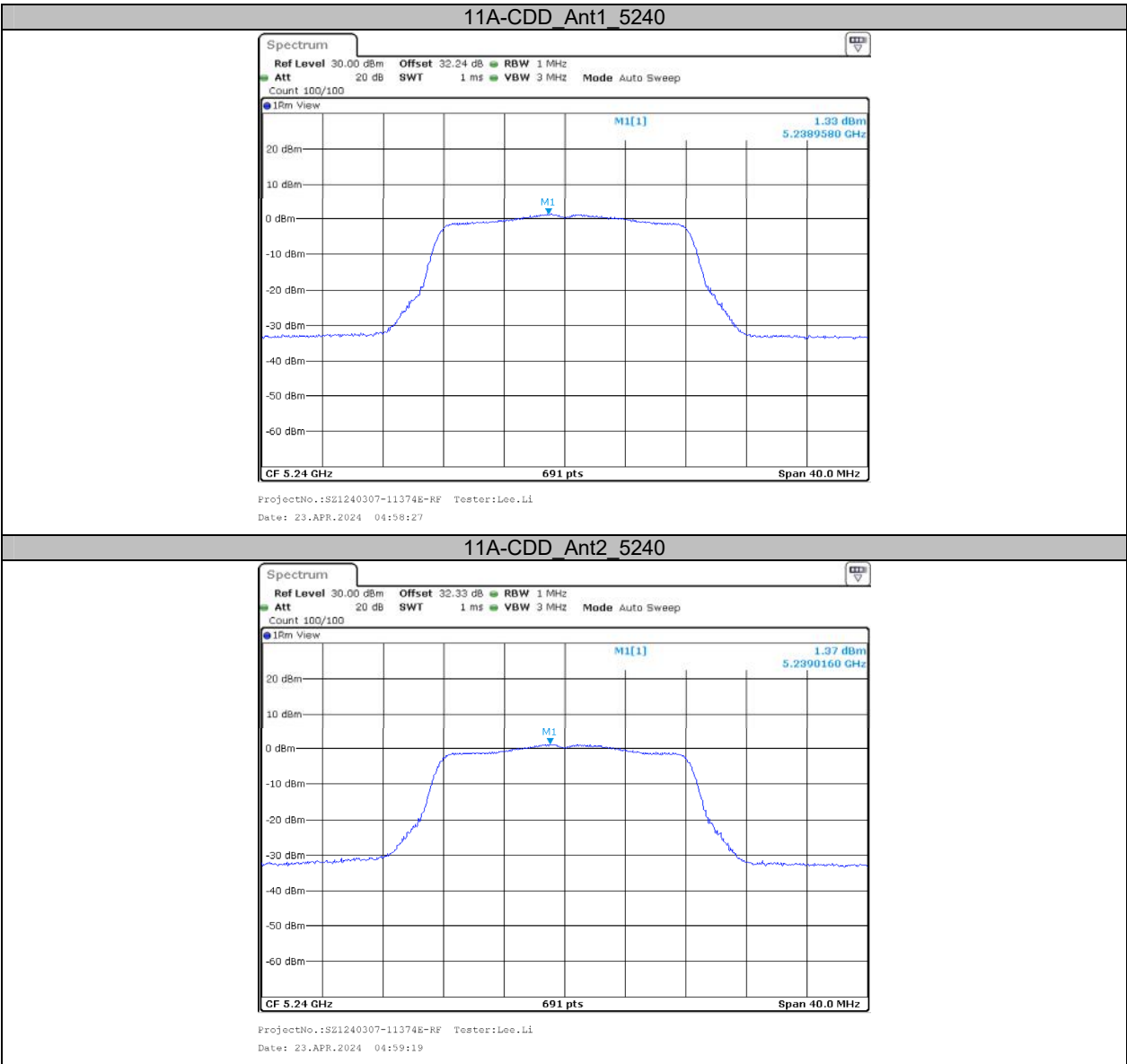
$G_{ANT1}=2.5\text{dBi}$, $G_{ANT2}=2.3\text{dBi}$, use the higher antenna gain for calculate

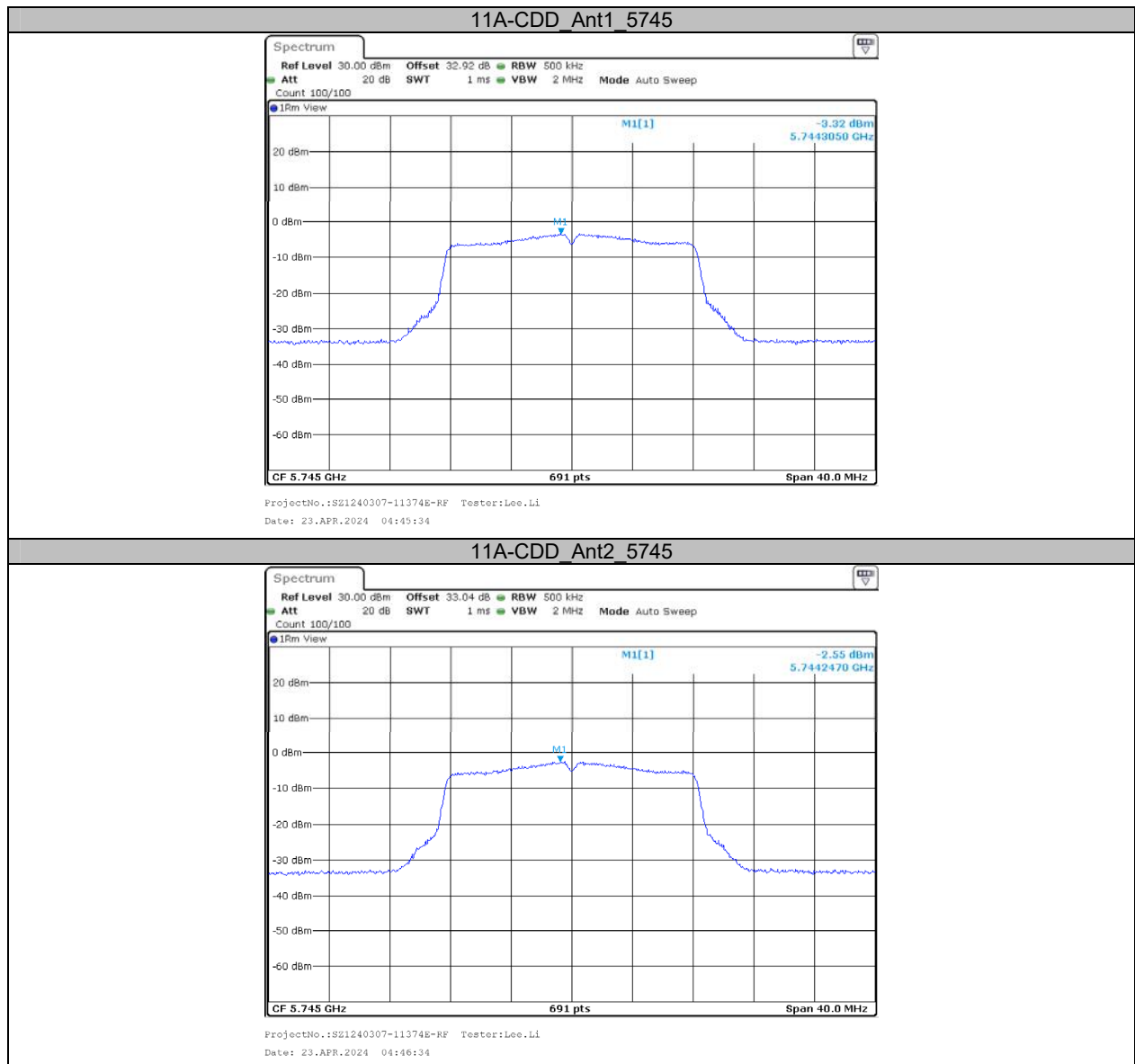
So Directional gain = $2.5\text{dBi} + 10\log(2)\text{dB} = 5.5\text{dBi} < 6$

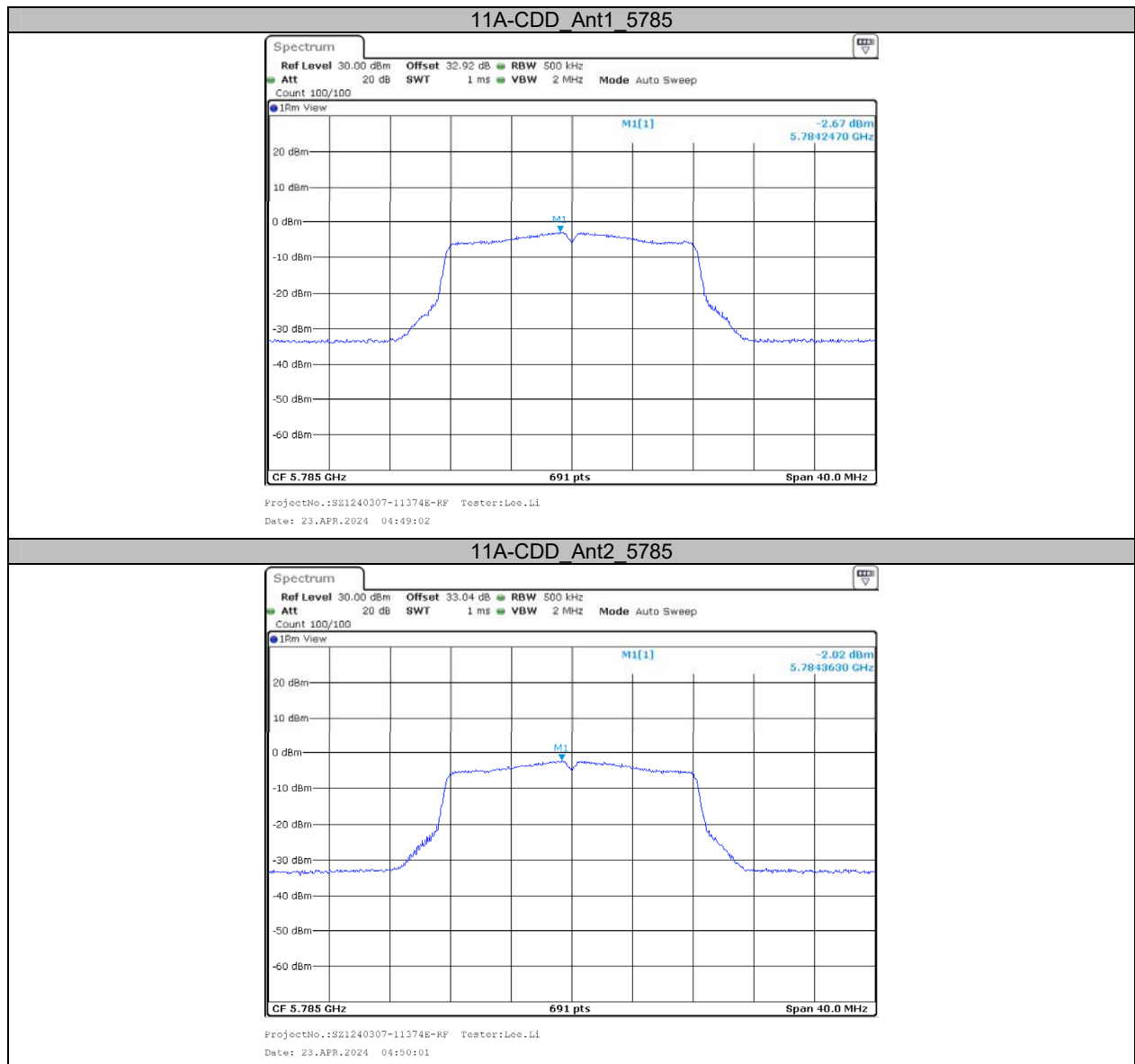
Test Graphs

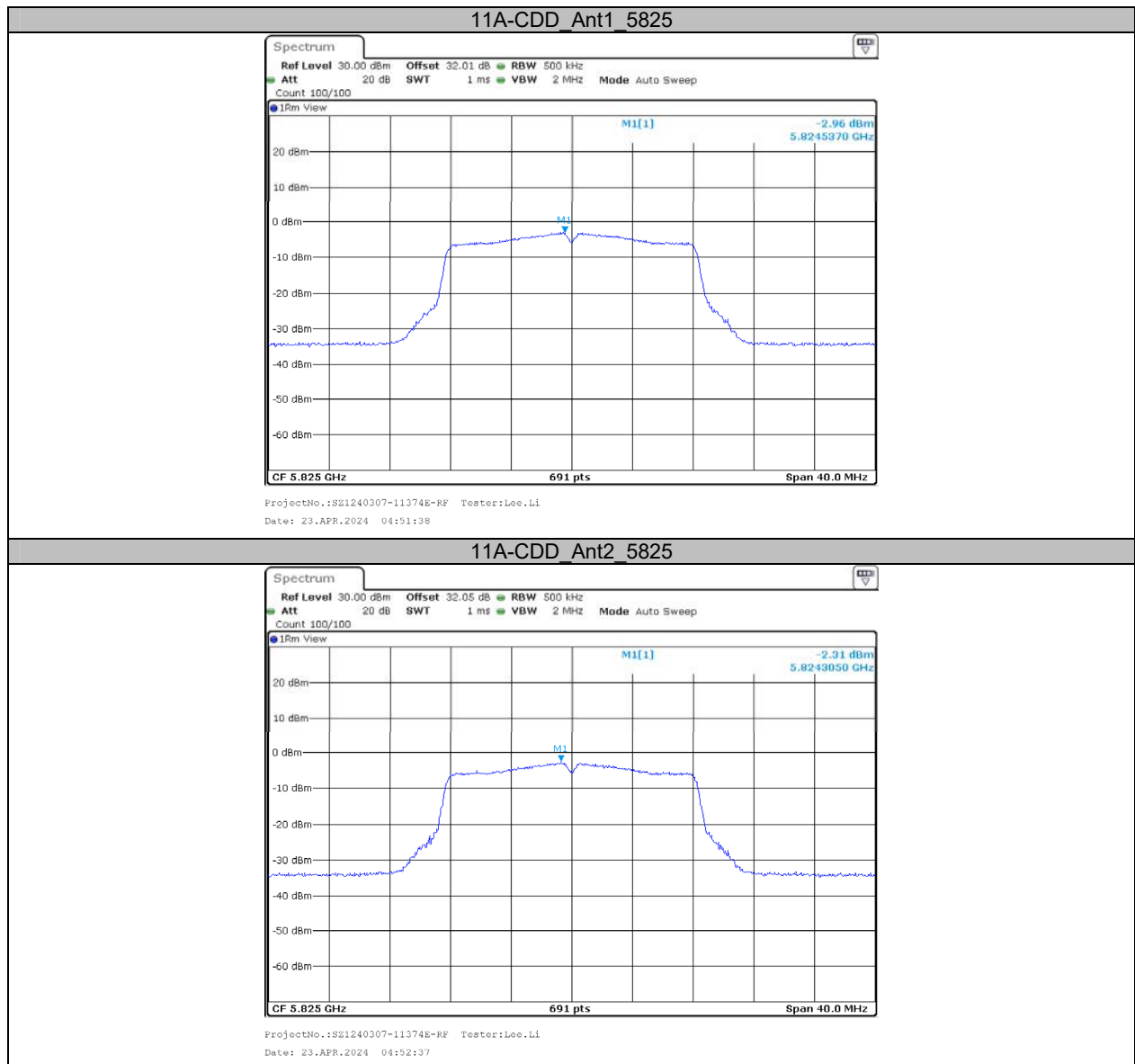


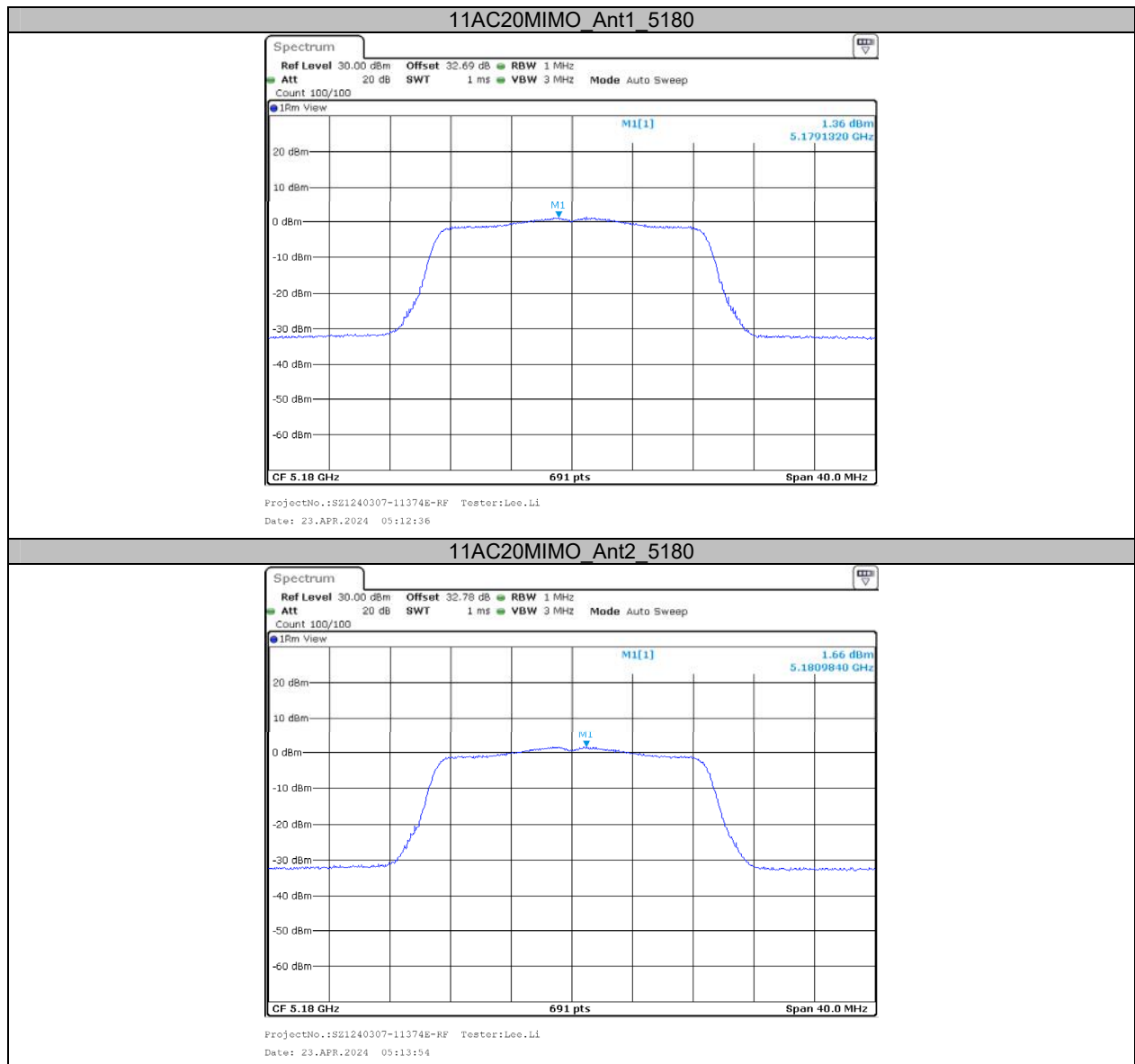


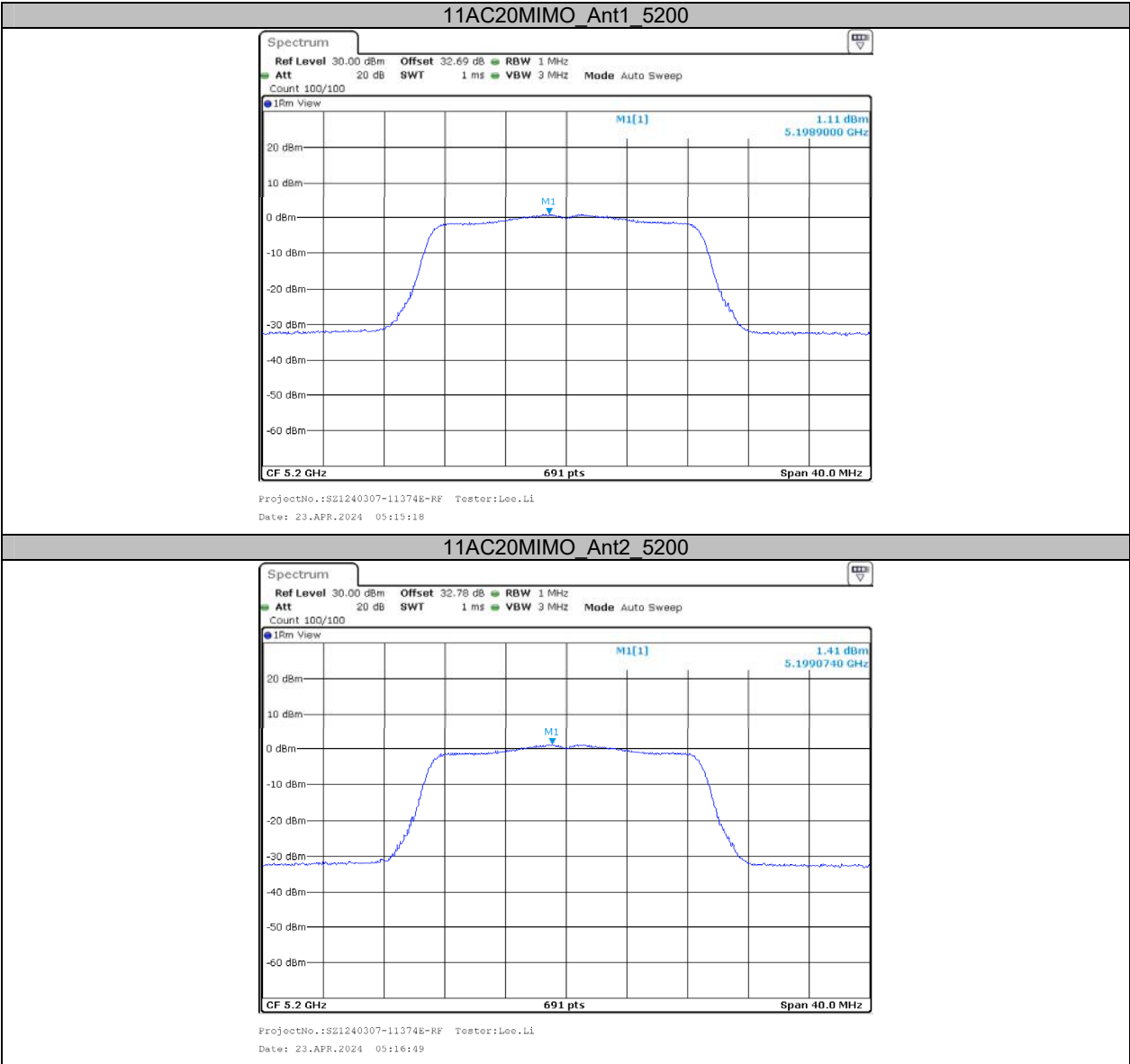


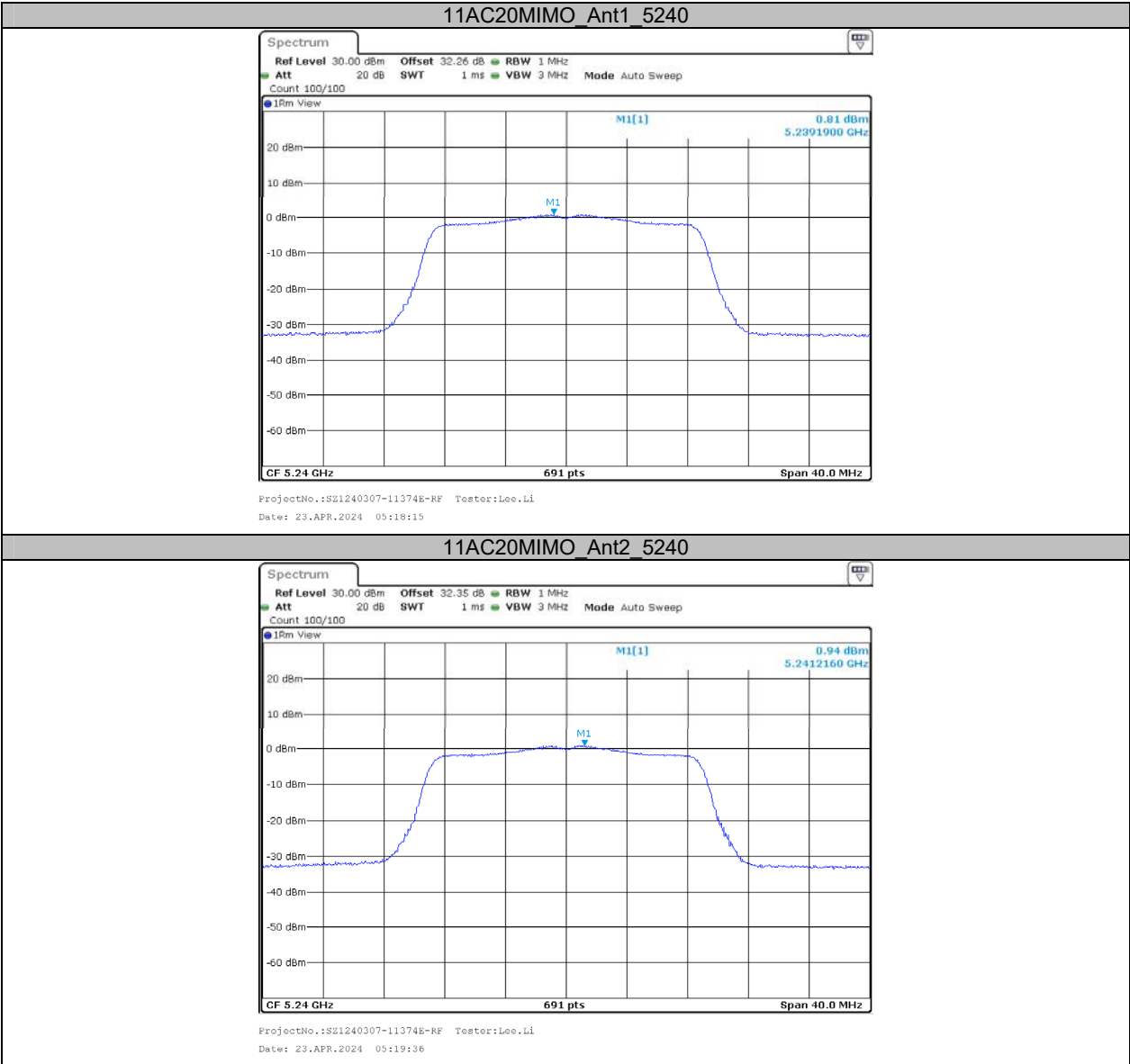


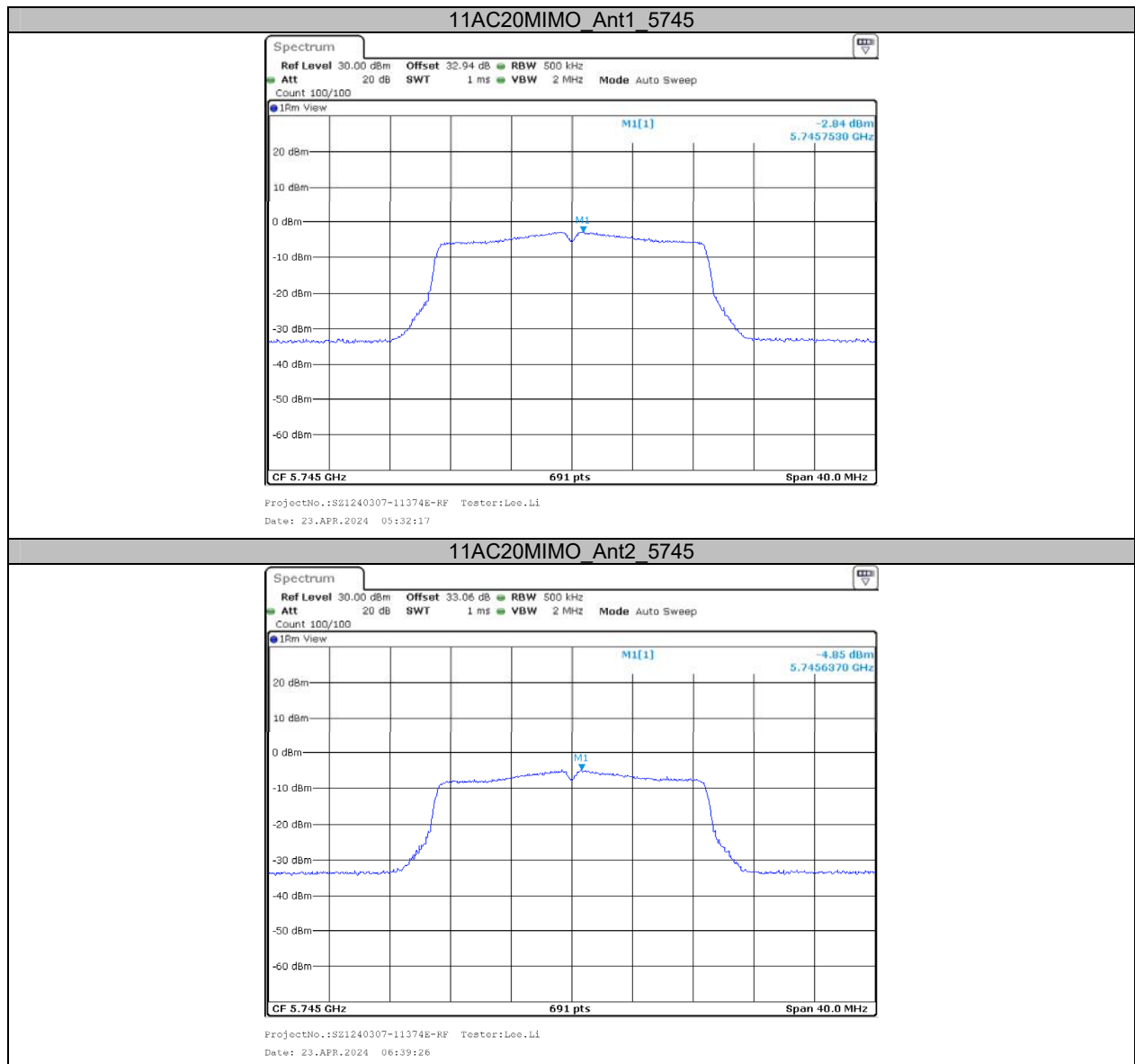


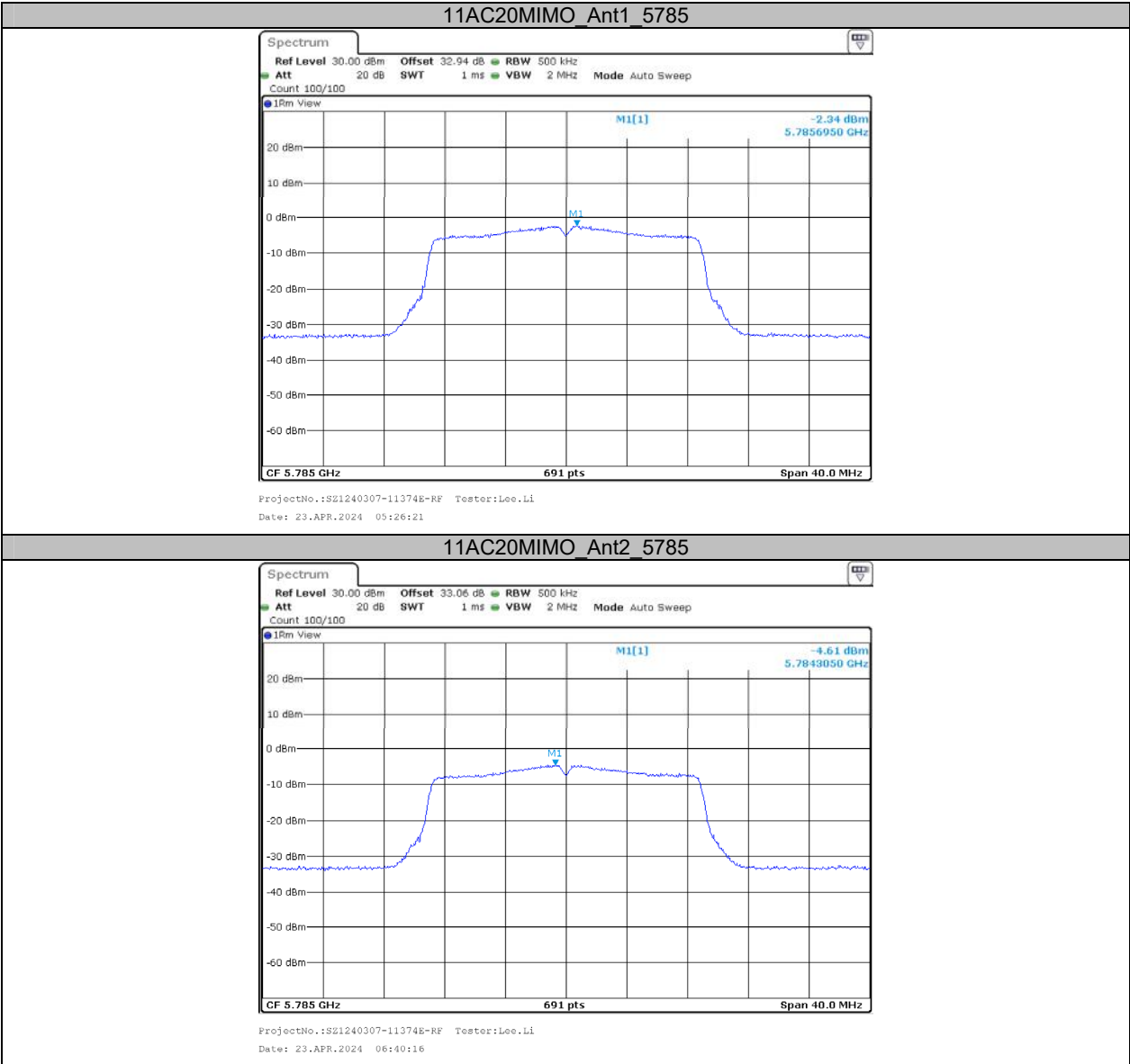


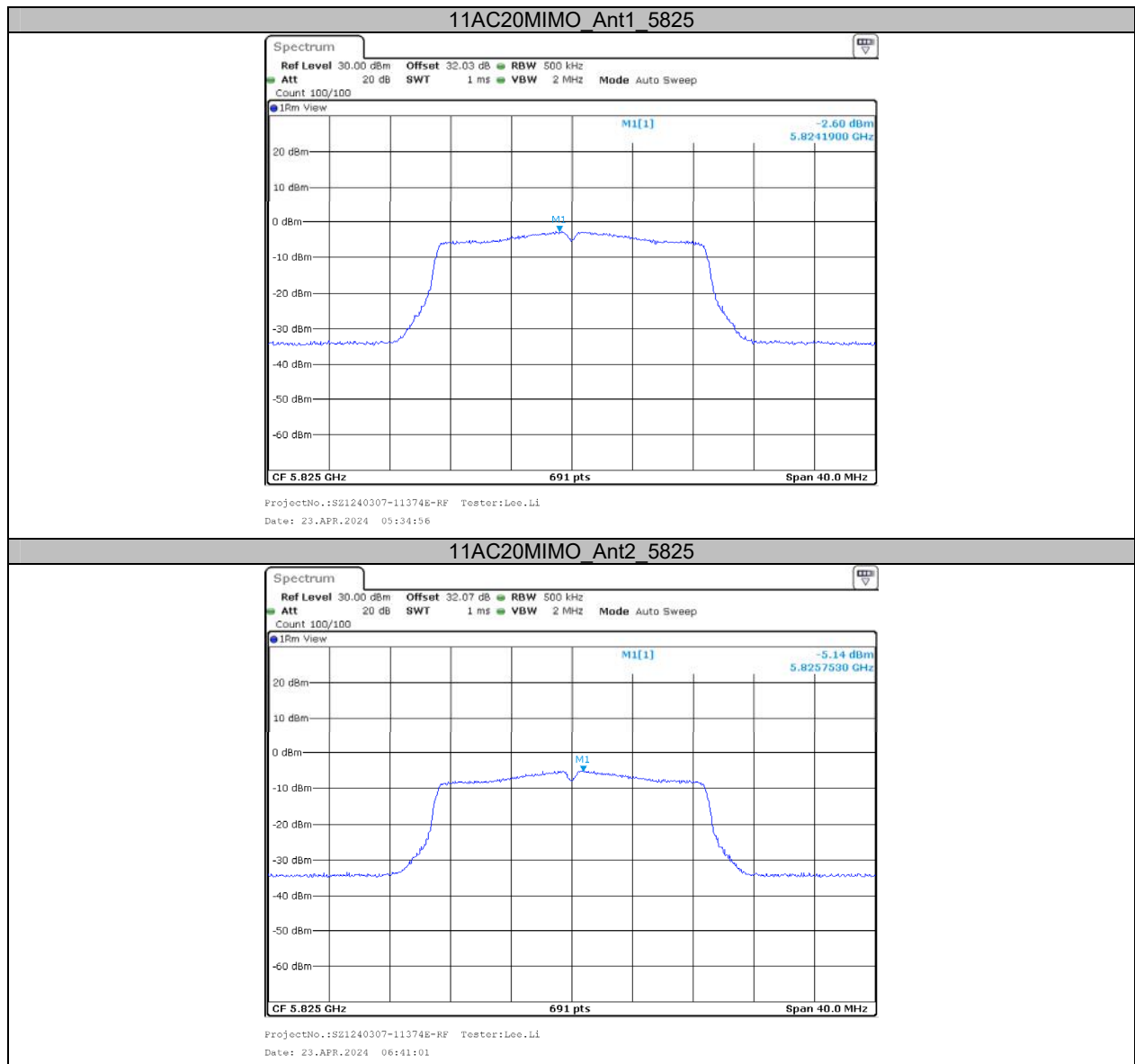


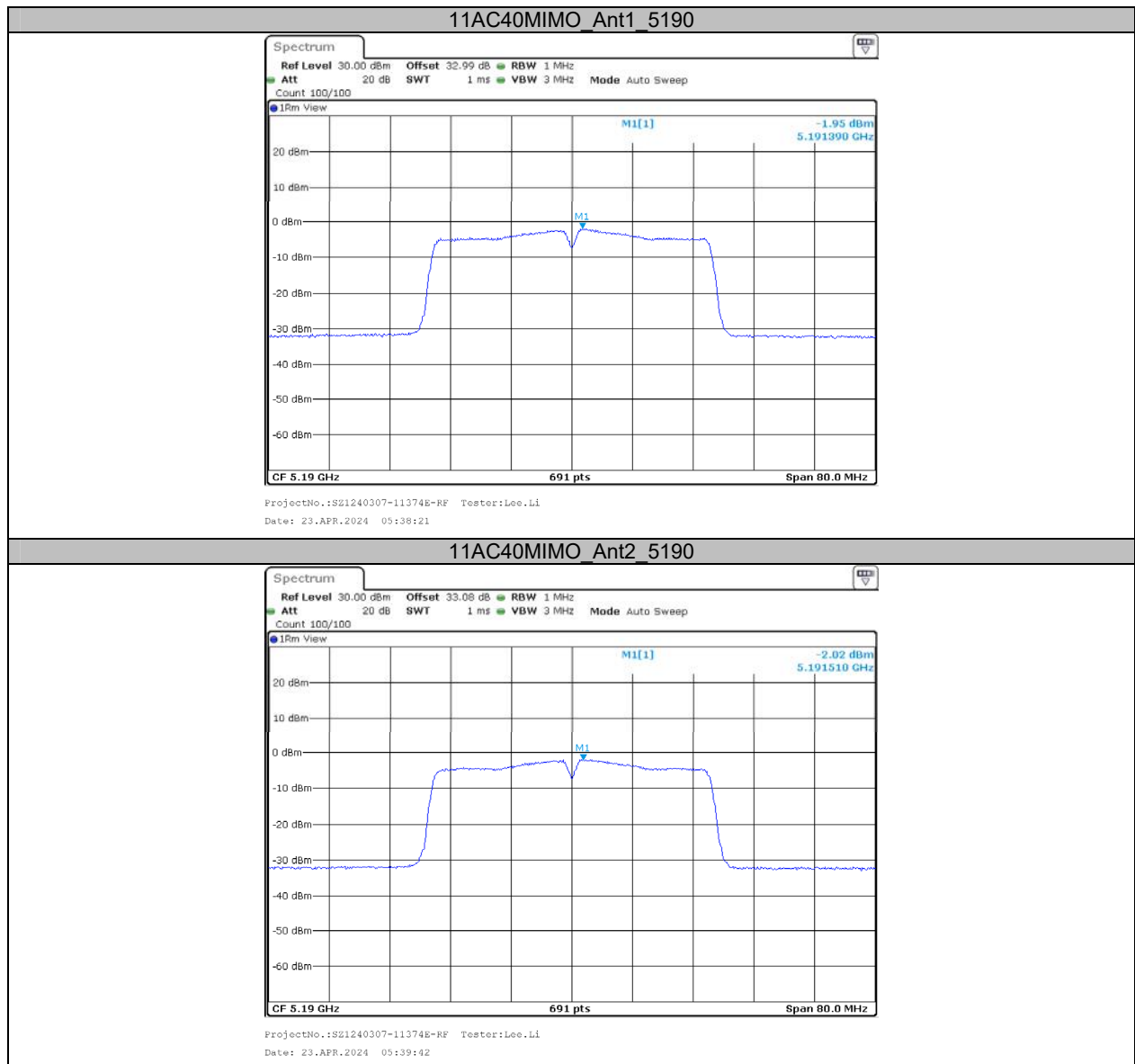


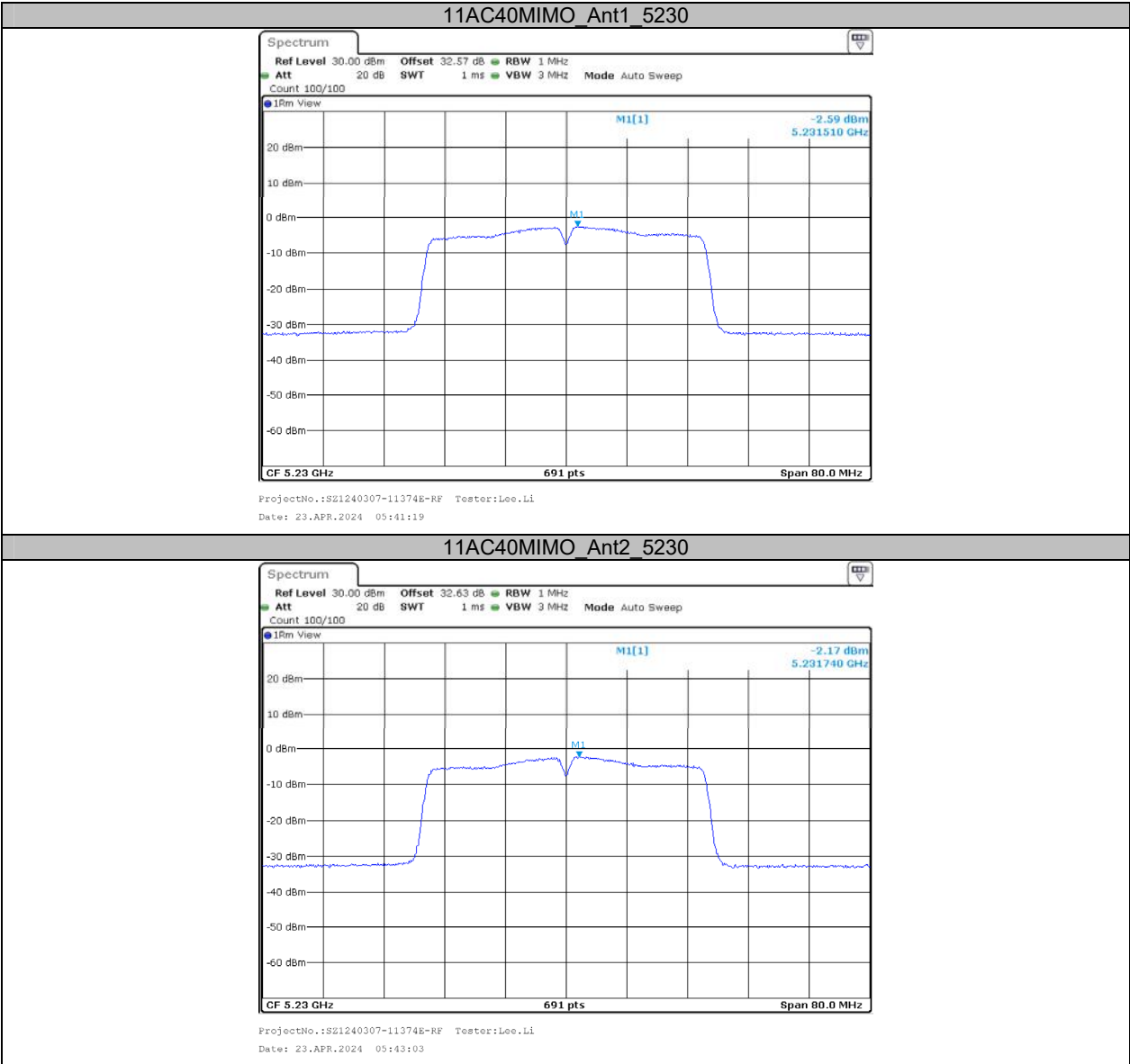


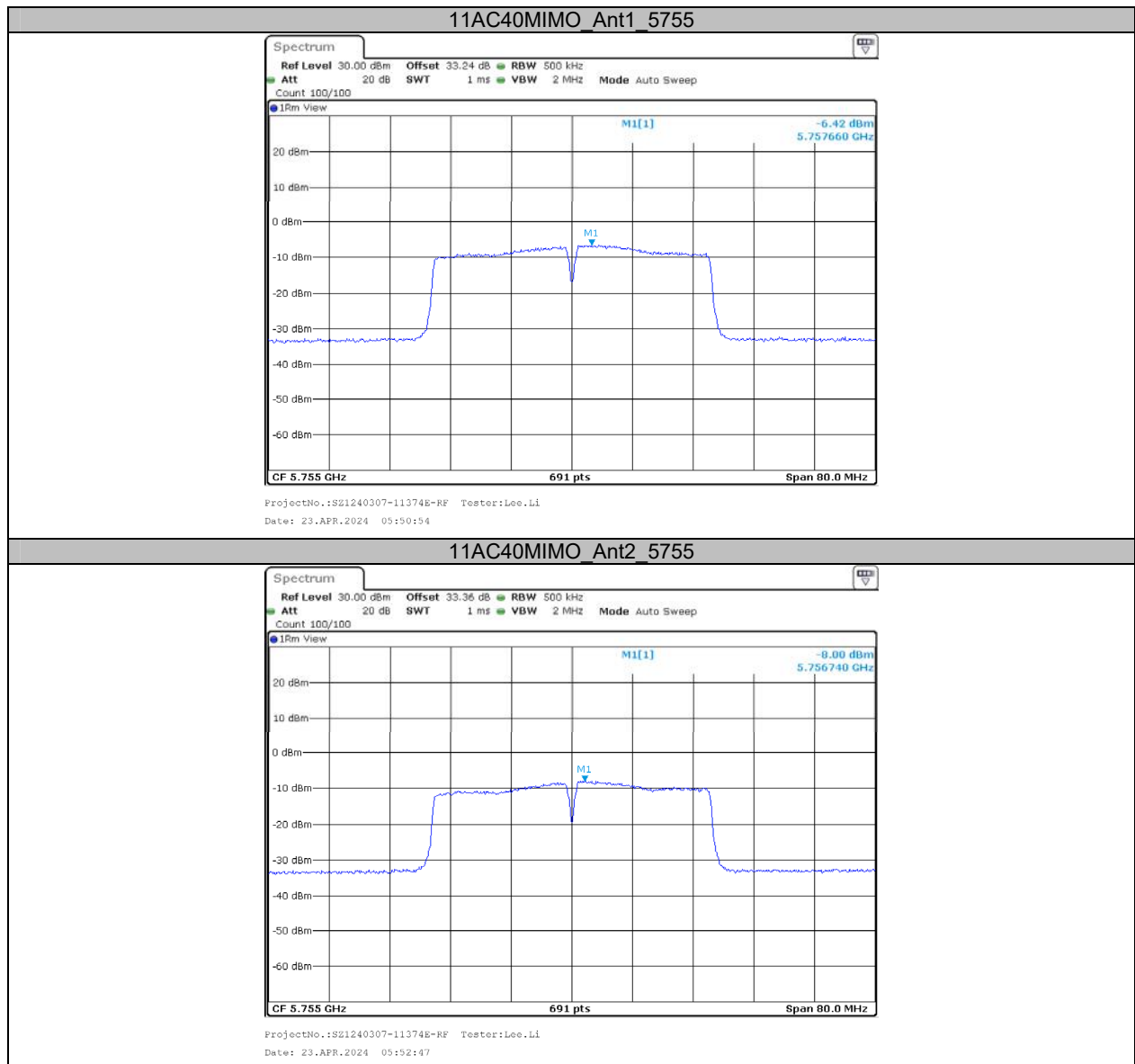




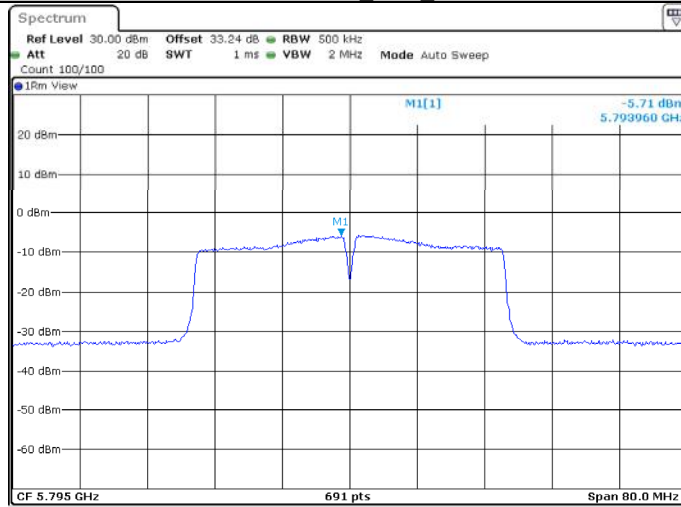








11AC40MIMO Ant1 5795

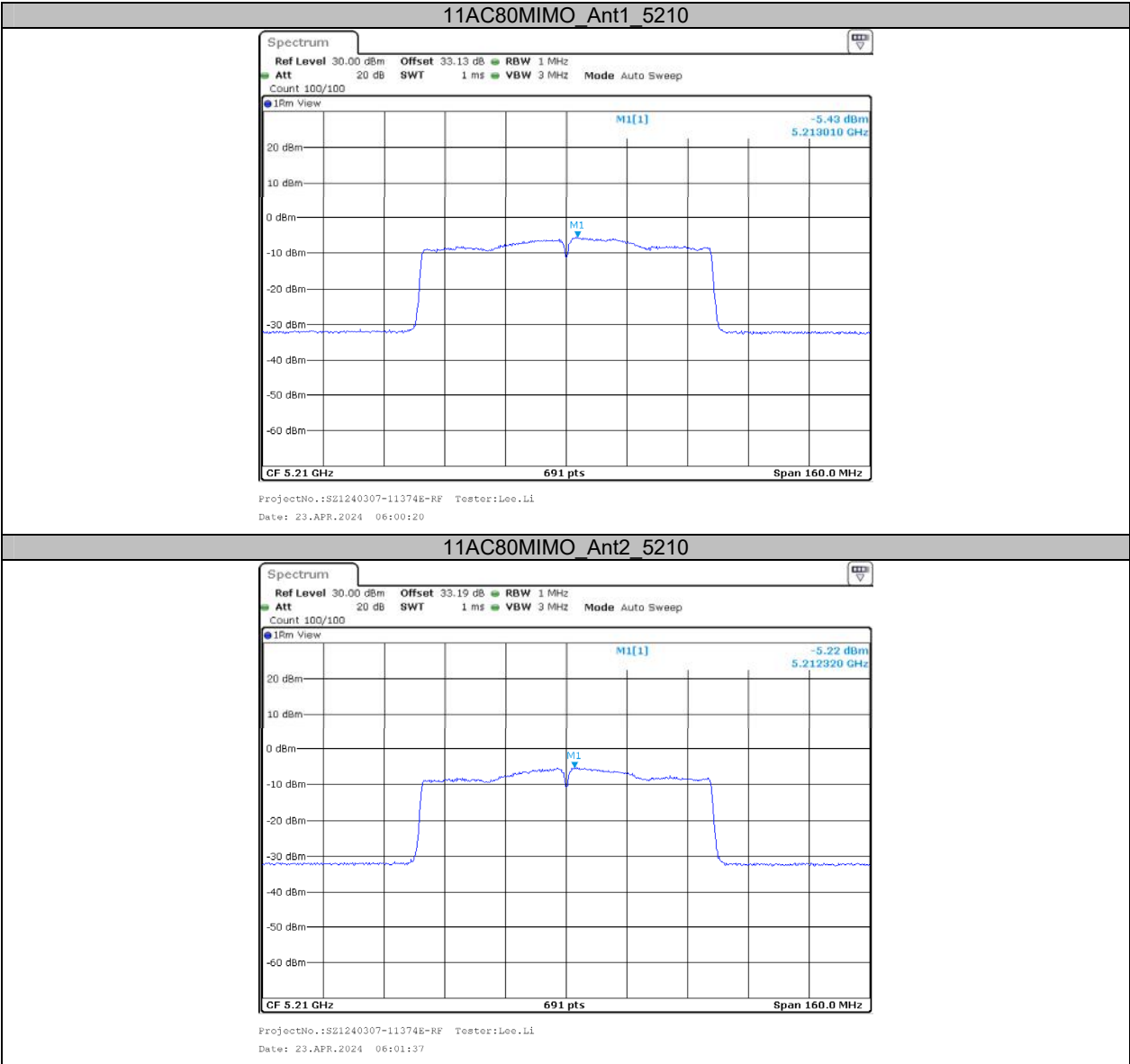


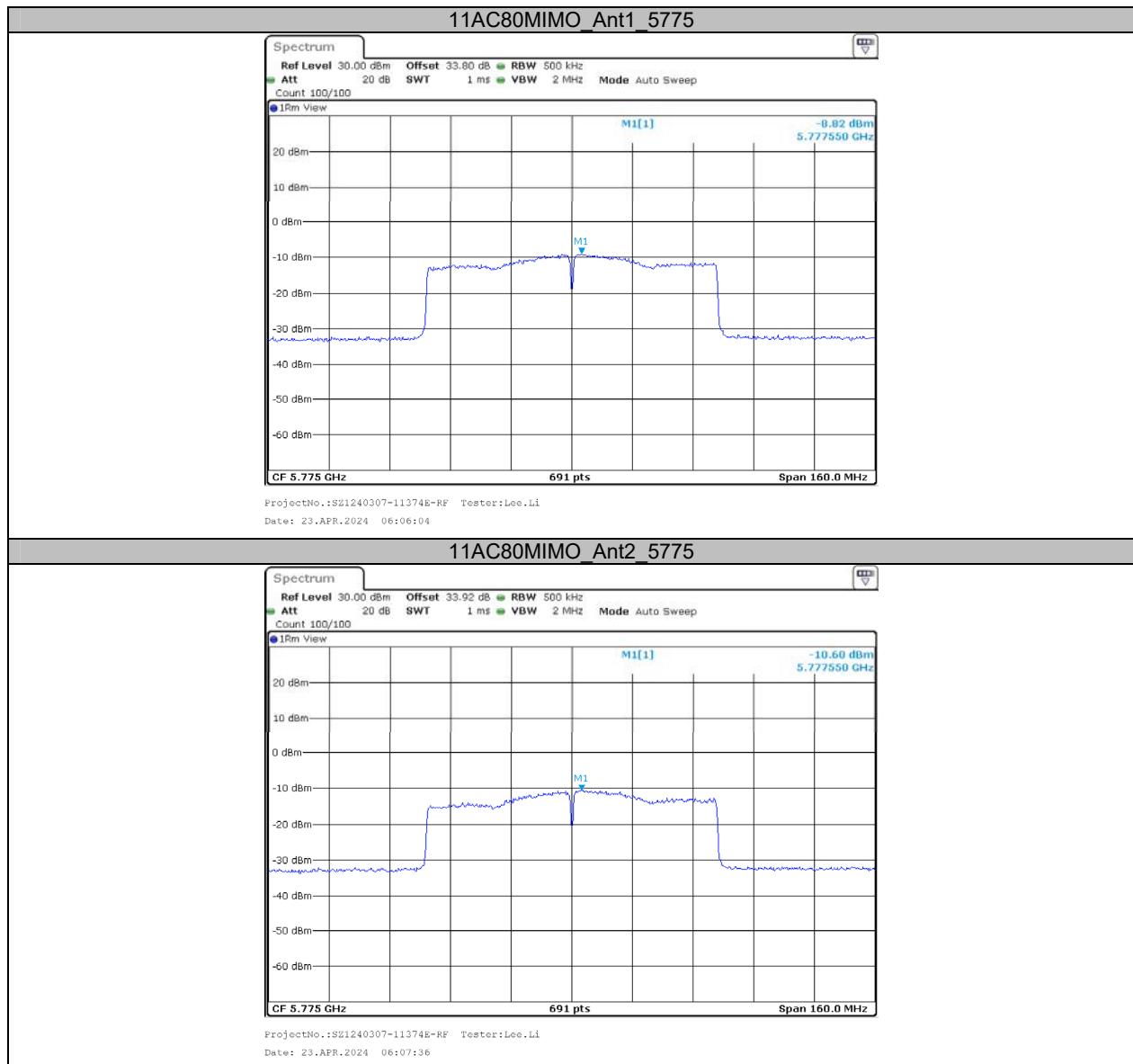
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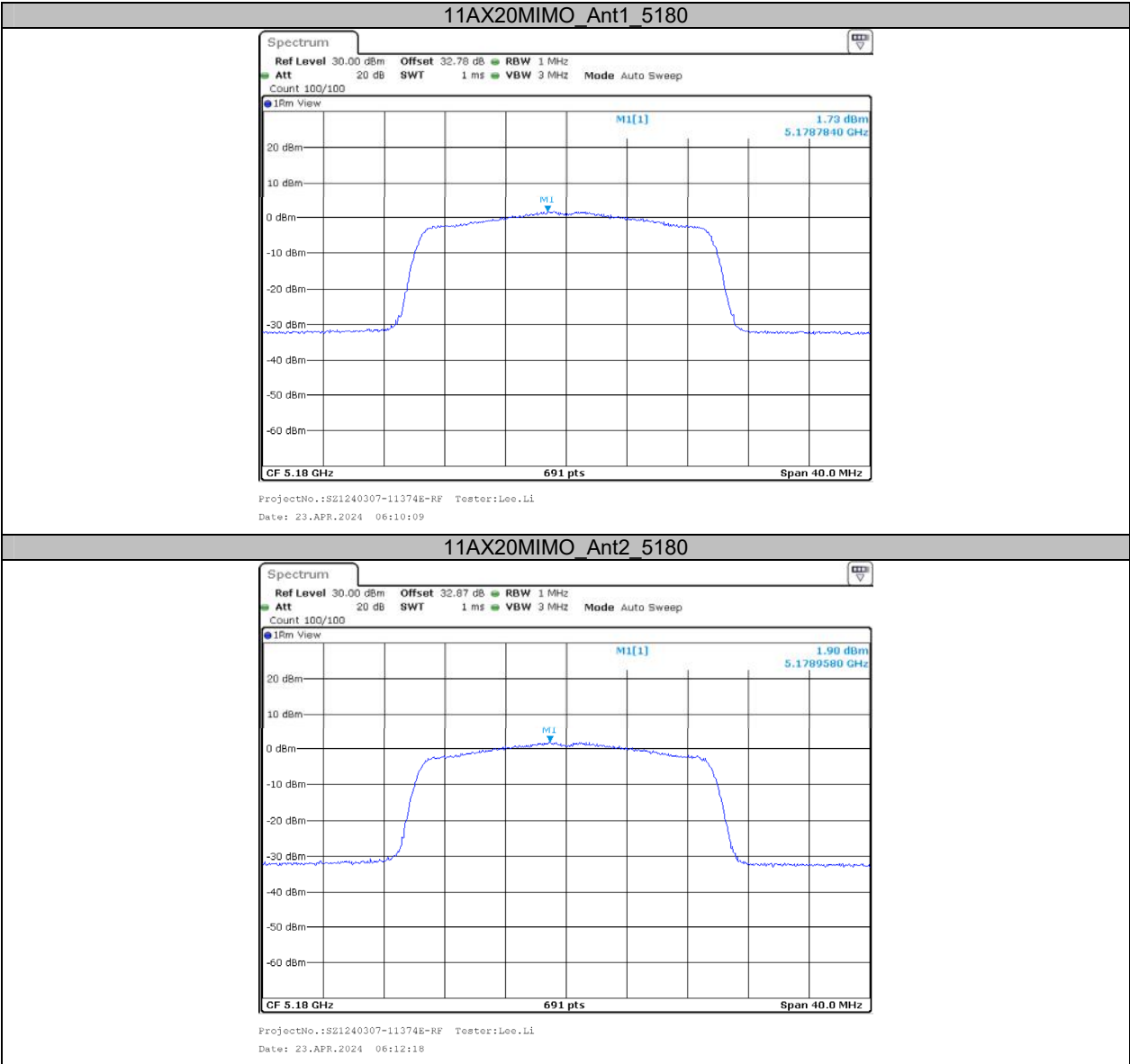
11AC40MIMO Ant2 5795

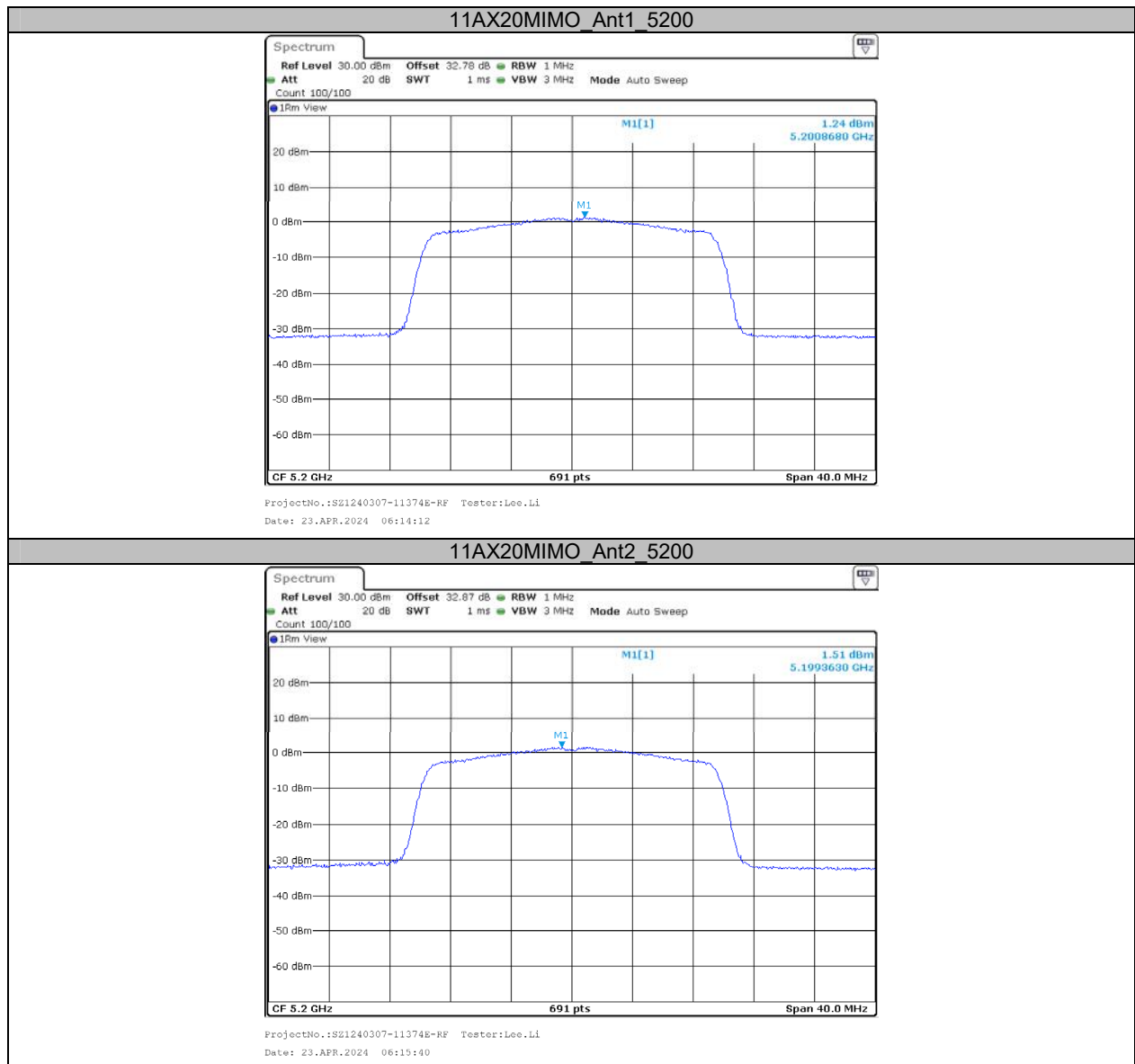


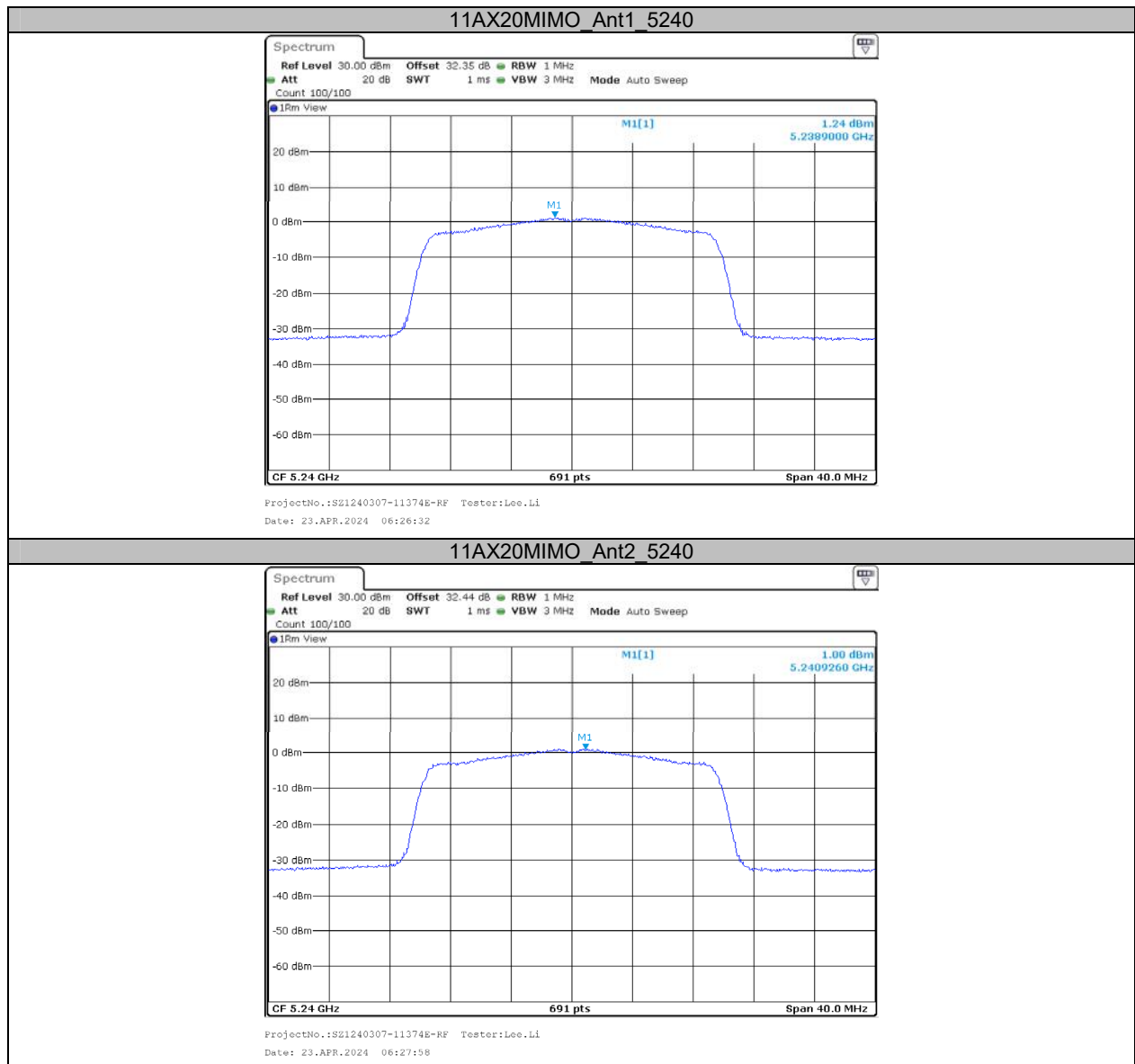
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Date: 23.APR.2024 05:58:52











11AX20MIMO Ant1 5745



ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 06:29:39

11AX20MIMO Ant2 5745



ProjectNo.:SZ1240307-11374E-RF Tester:Lee.Li
Date: 23.APR.2024 06:31:07

