

Appendix C



RF Test: General Information

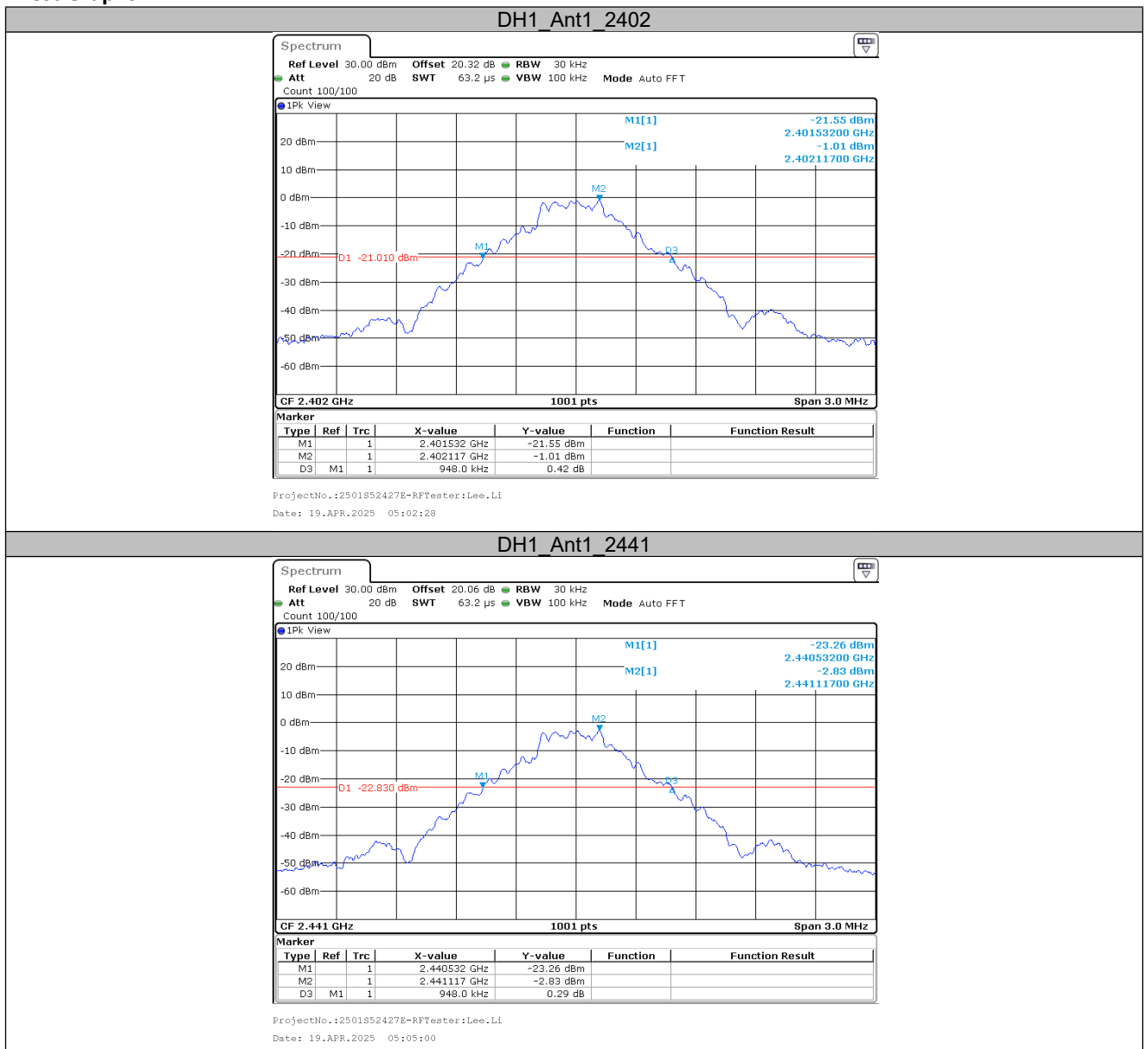
Project No.:	2501S52427E-RF
EUT Number:	314C-1
Operating Mode:	Transmitting
Test Conditions:	Temperature: <u>25-28</u> °C Relative Humidity: <u>51-27</u> % ATM Pressure: <u>100-101</u> kPa
Test Engineer:	Lee Li&Rainbow Zhu
Test Date:	2025-04-19 ~ 2025-09-10

20dB Emission Bandwidth

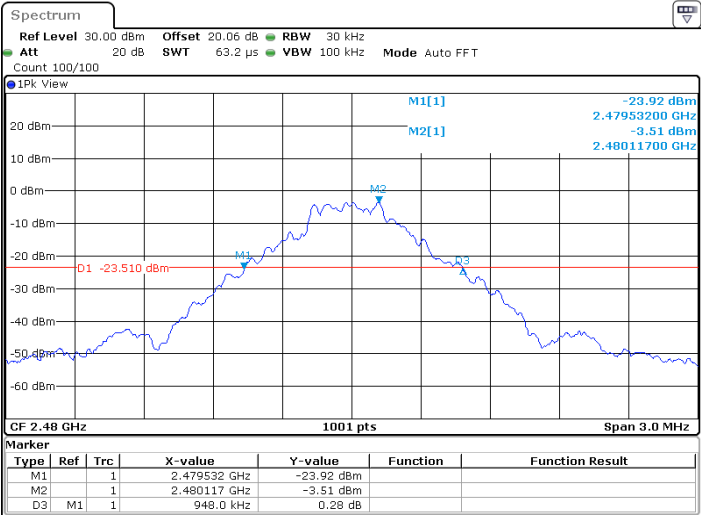
Test Result

Test Mode	Antenna	Frequency[MHz]	20dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.948	2401.532	2402.480	---	---
		2441	0.948	2440.532	2441.480	---	---
		2480	0.948	2479.532	2480.480	---	---
2DH1	Ant1	2402	1.311	2401.337	2402.648	---	---
		2441	1.308	2440.337	2441.645	---	---
		2480	1.308	2479.334	2480.642	---	---
3DH1	Ant1	2402	1.281	2401.361	2402.642	---	---
		2441	1.278	2440.361	2441.639	---	---
		2480	1.278	2479.361	2480.639	---	---

Test Graphs

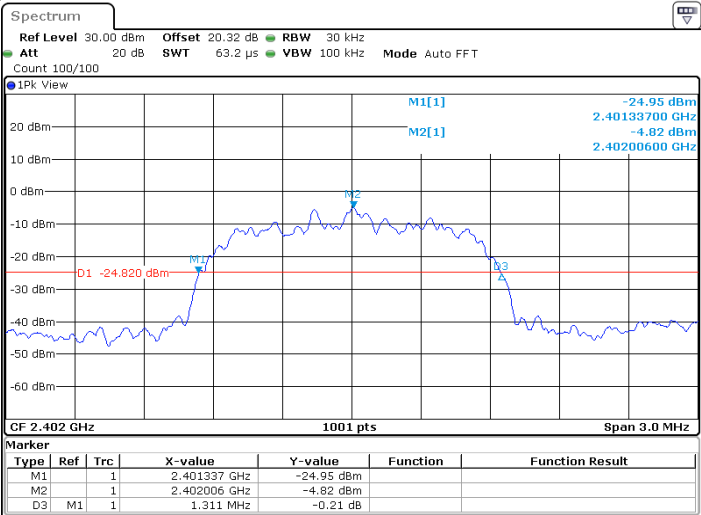


DH1_Ant1_2480



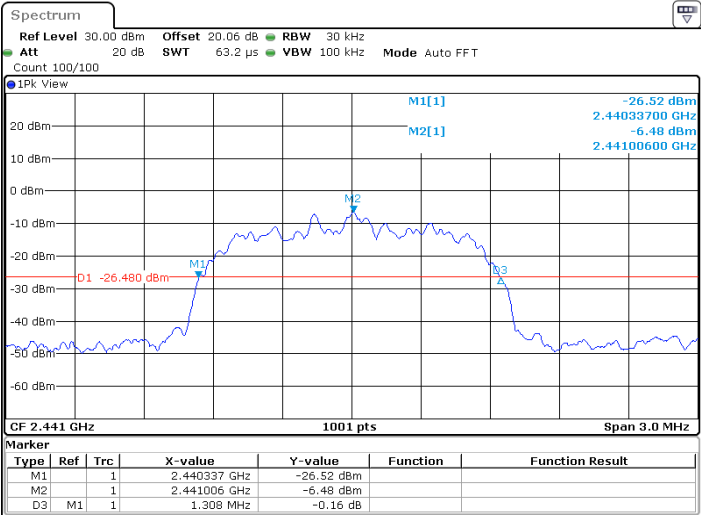
ProjectNo.:2501S52427E-RFTester:Lee.Li
Date: 19.APR.2025 05:09:55

2DH1_Ant1_2402



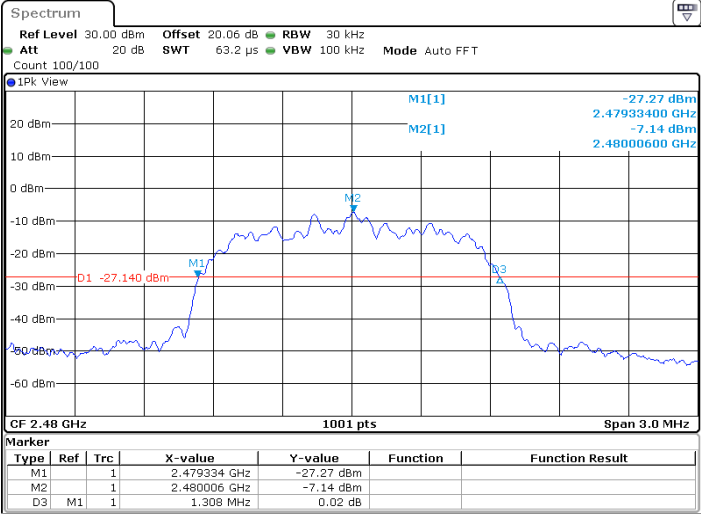
ProjectNo.:2501S52427E-RFTester:Lee.Li
Date: 19.APR.2025 05:13:55

2DH1_Ant1_2441



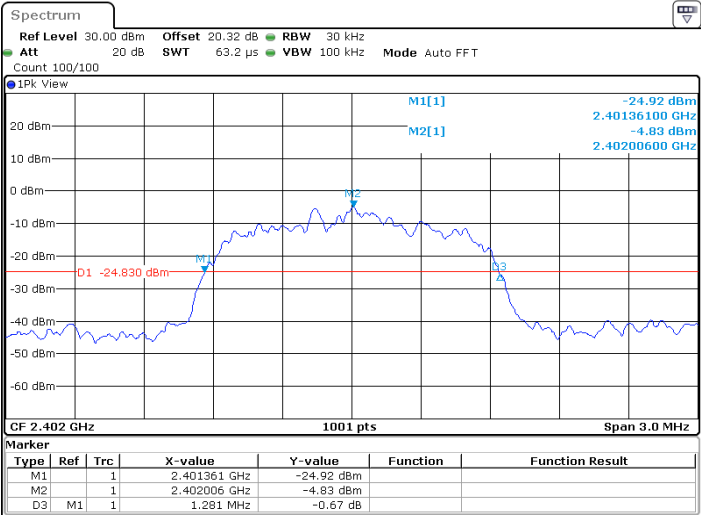
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Date: 19.APR.2025 05:16:44

2DH1_Ant1_2480



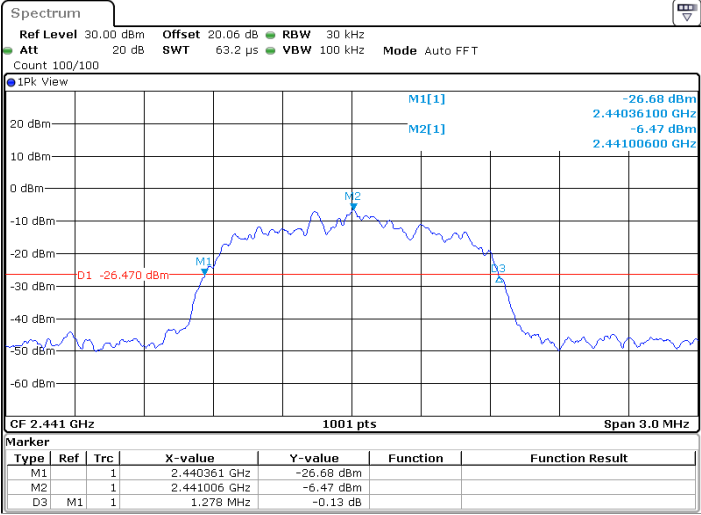
ProjectNo.:2501S52427E-RFTester:Lee.Li
Date: 19.APR.2025 05:18:01

3DH1_Ant1_2402

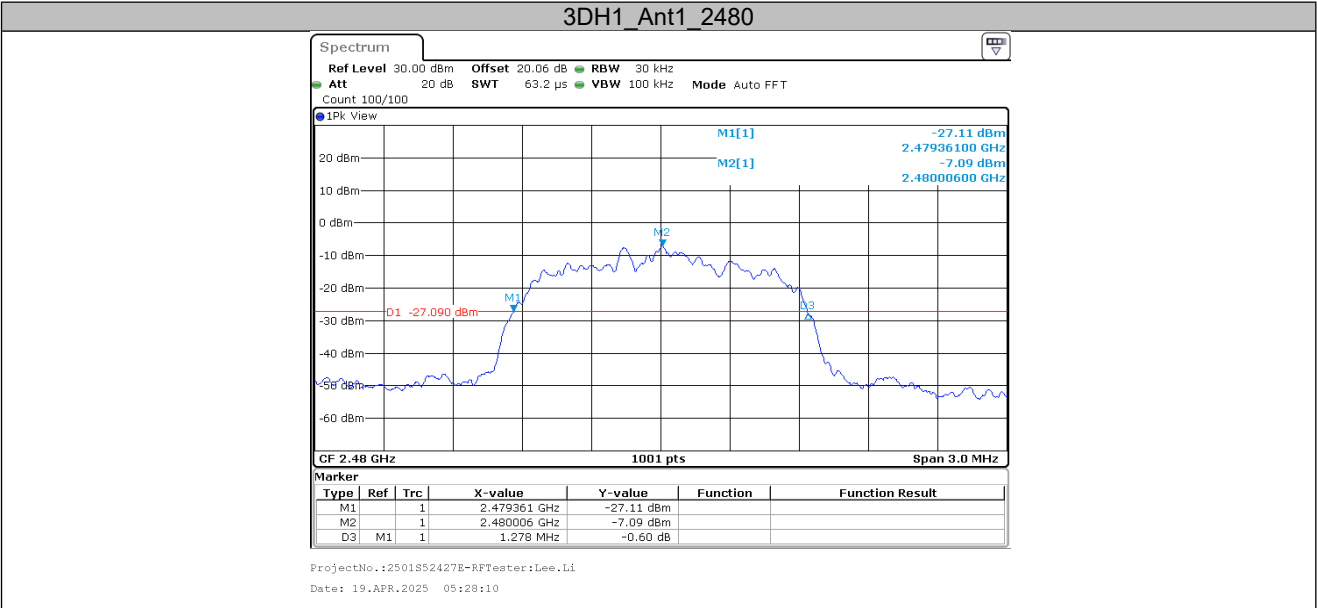


ProjectNo.:2501S52427E-RFTester:Lee.Li
Date: 19.APR.2025 05:22:47

3DH1_Ant1_2441



ProjectNo.:2501S52427E-RFTester:Lee.Li
Date: 19.APR.2025 05:26:45

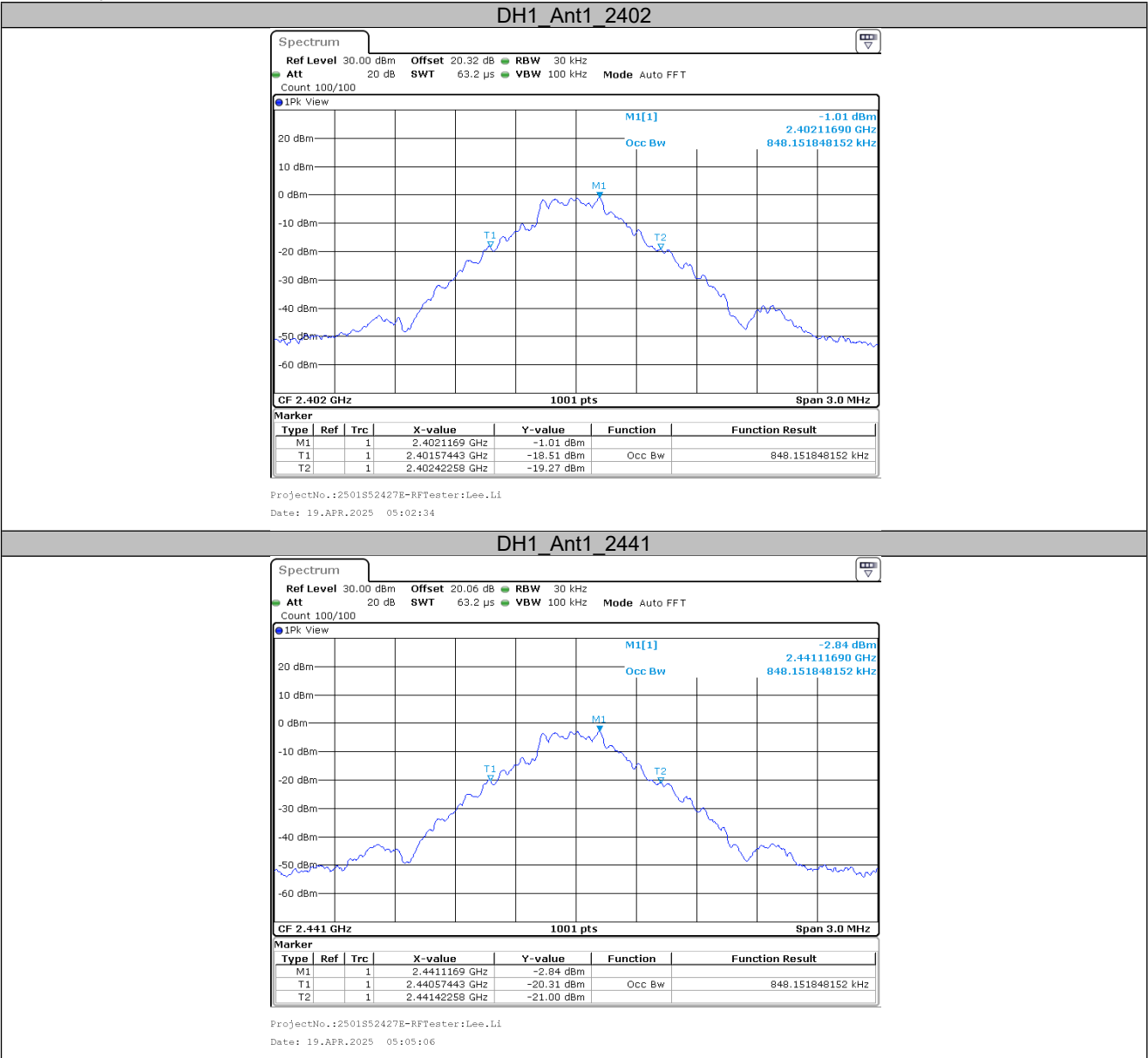


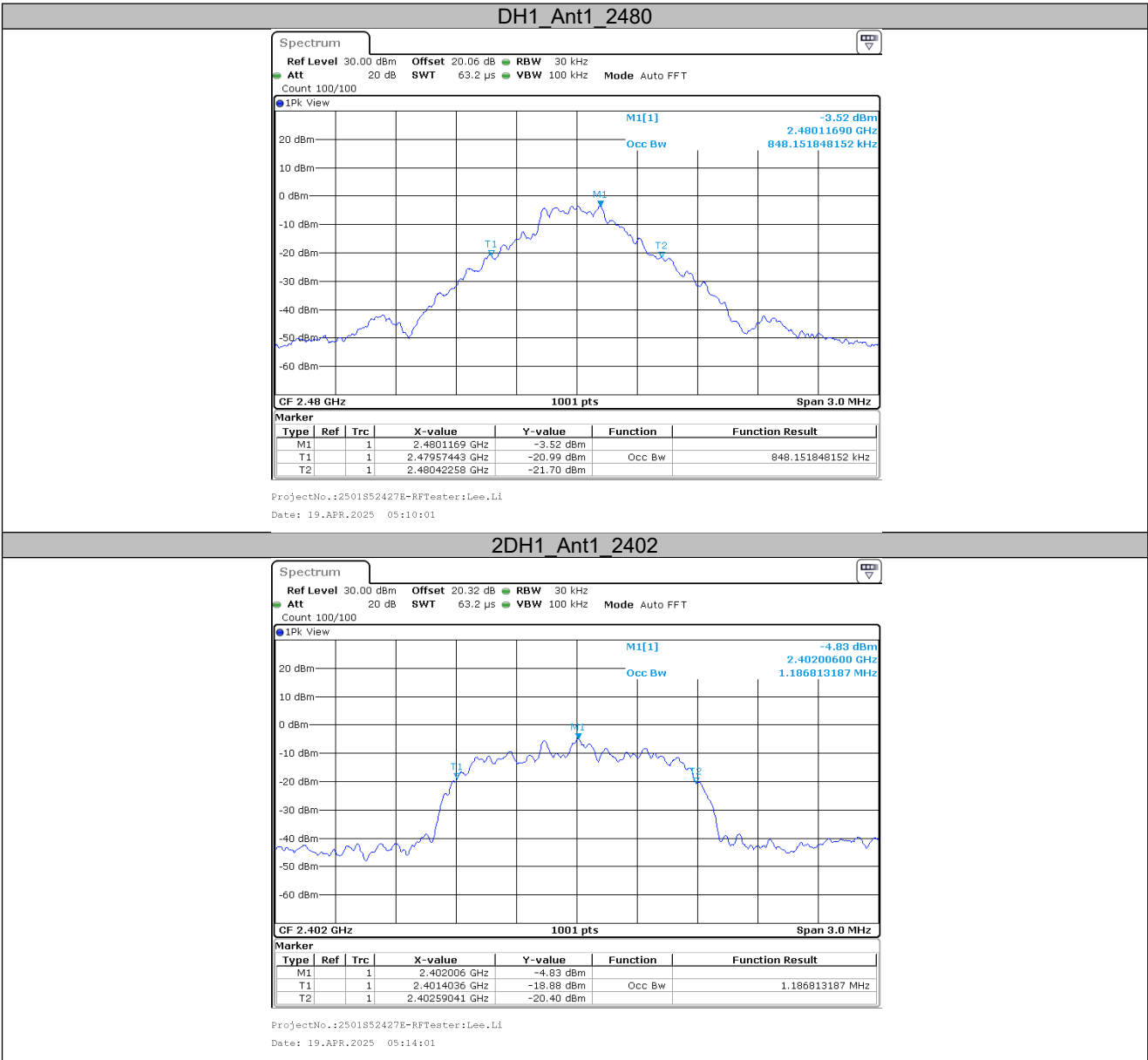
Occupied Channel Bandwidth

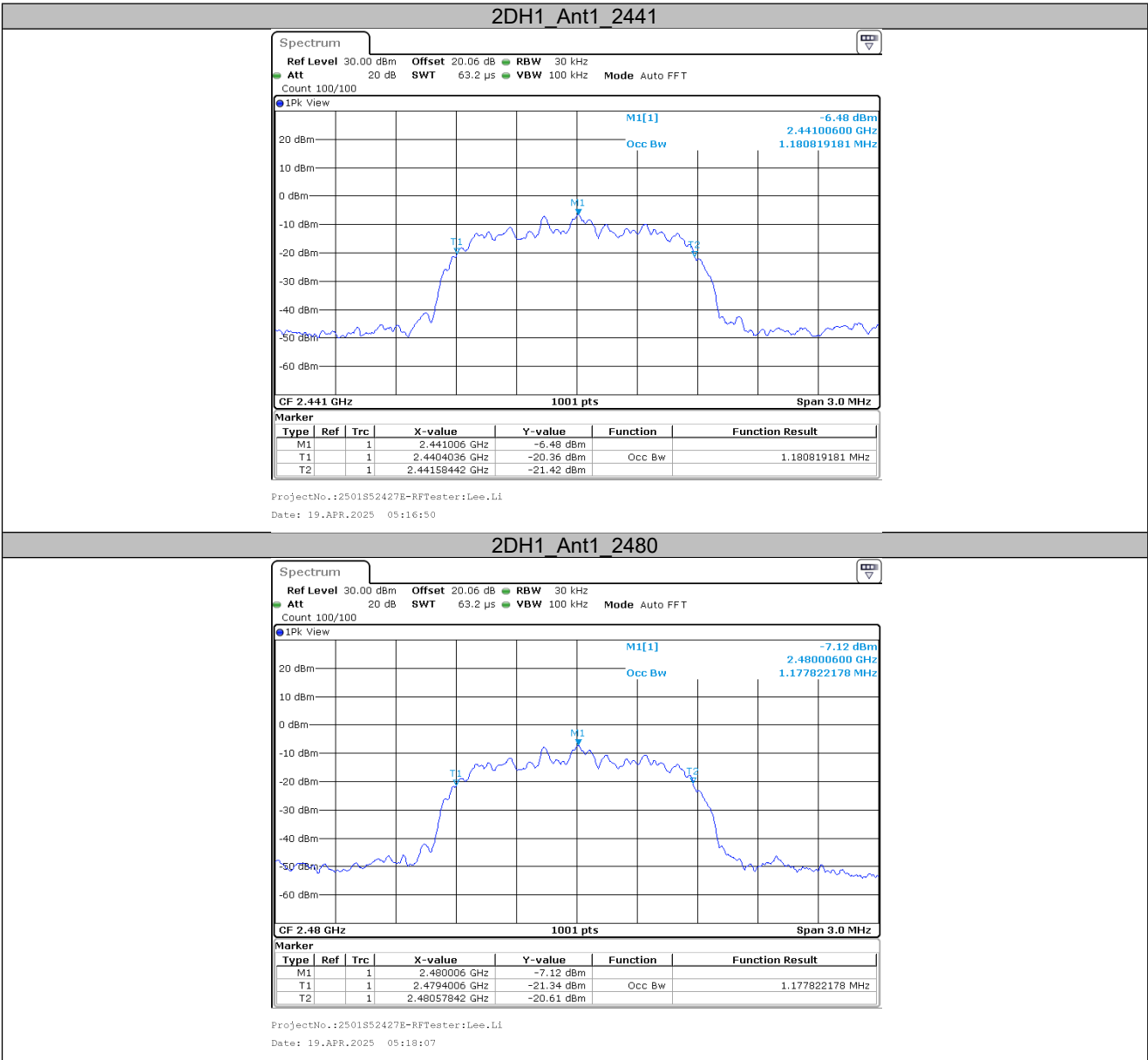
Test Result

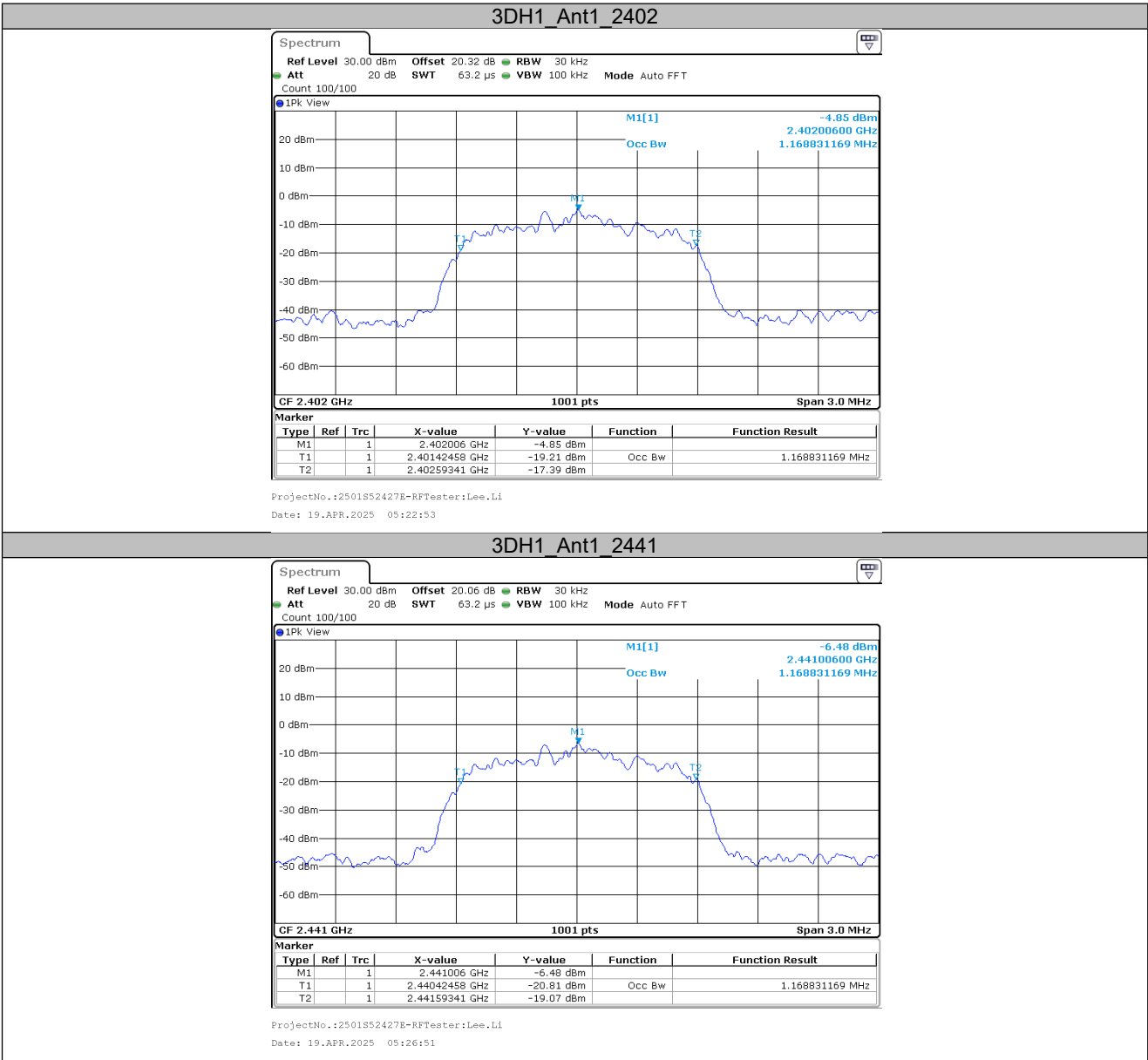
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.848	2401.5744	2402.4226	---	---
		2441	0.848	2440.5744	2441.4226	---	---
		2480	0.848	2479.5744	2480.4226	---	---
2DH1	Ant1	2402	1.187	2401.4036	2402.5904	---	---
		2441	1.181	2440.4036	2441.5844	---	---
		2480	1.178	2479.4006	2480.5784	---	---
3DH1	Ant1	2402	1.169	2401.4246	2402.5934	---	---
		2441	1.169	2440.4246	2441.5934	---	---
		2480	1.166	2479.4246	2480.5904	---	---

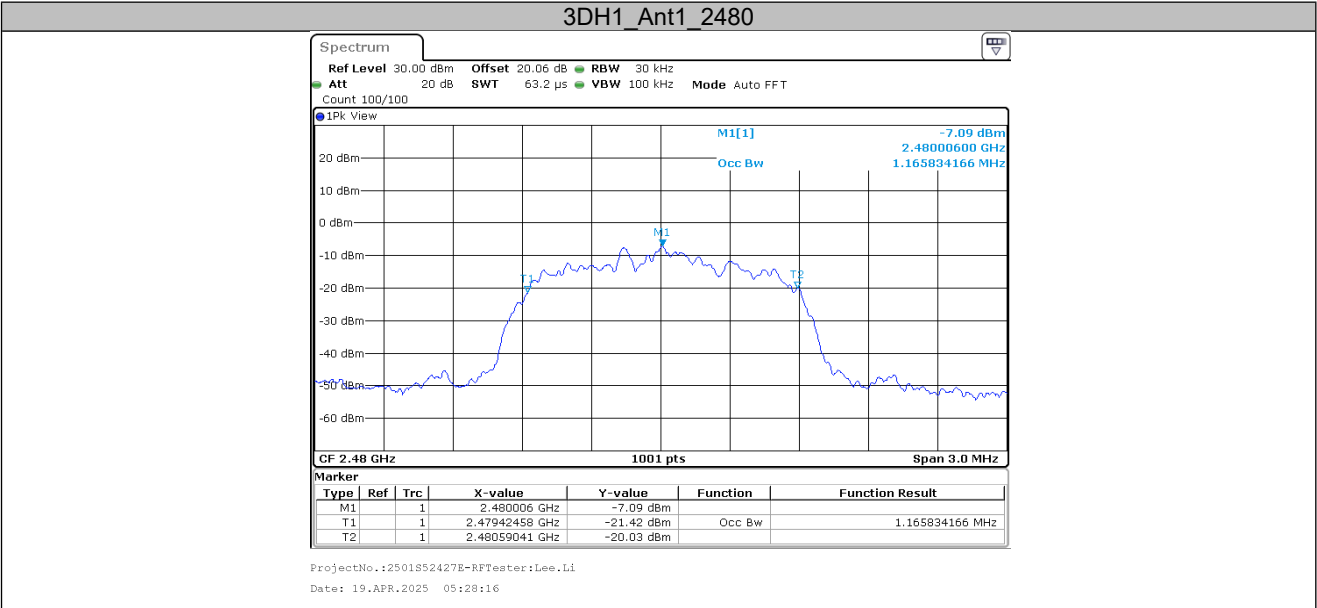
Test Graphs





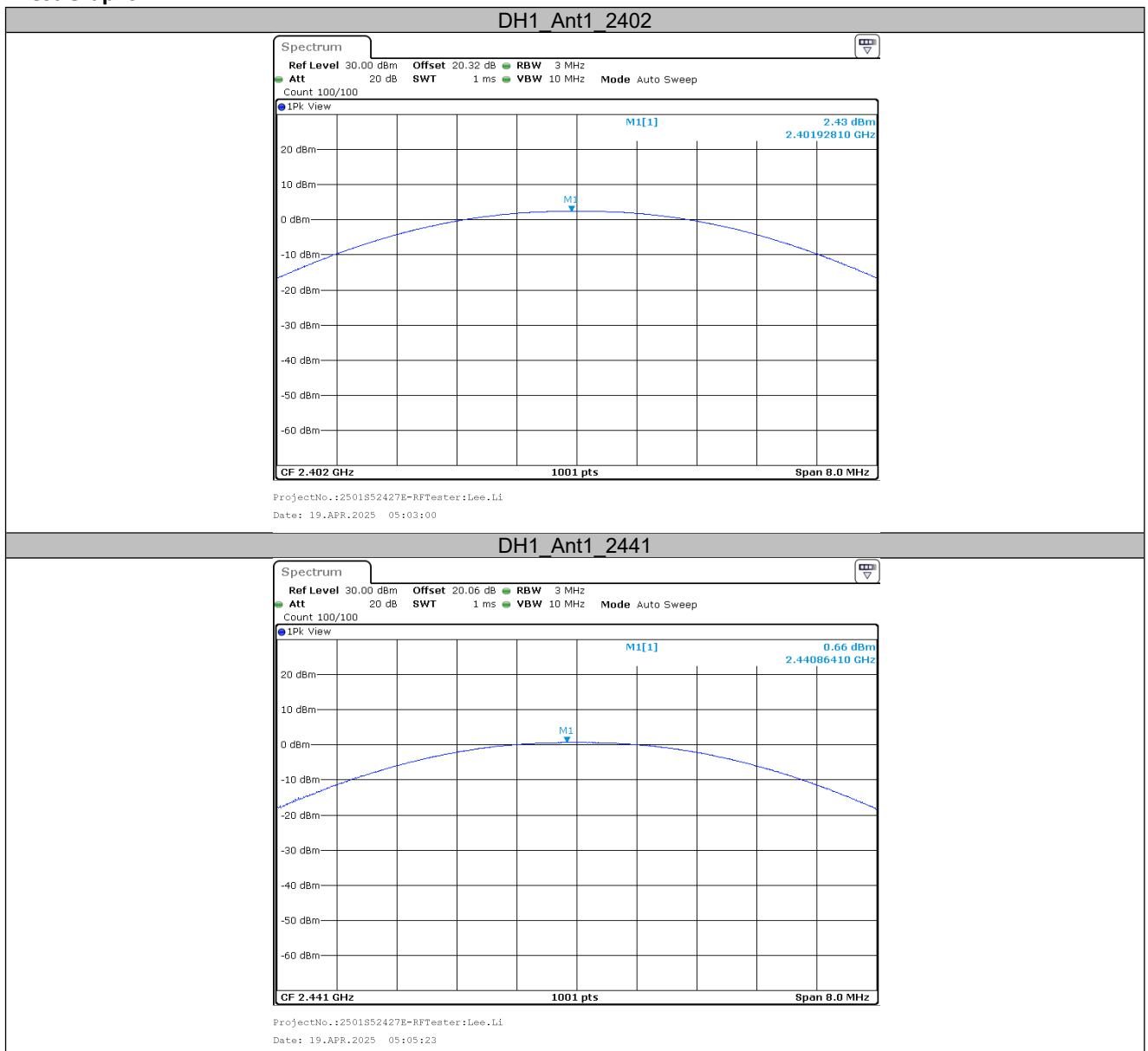


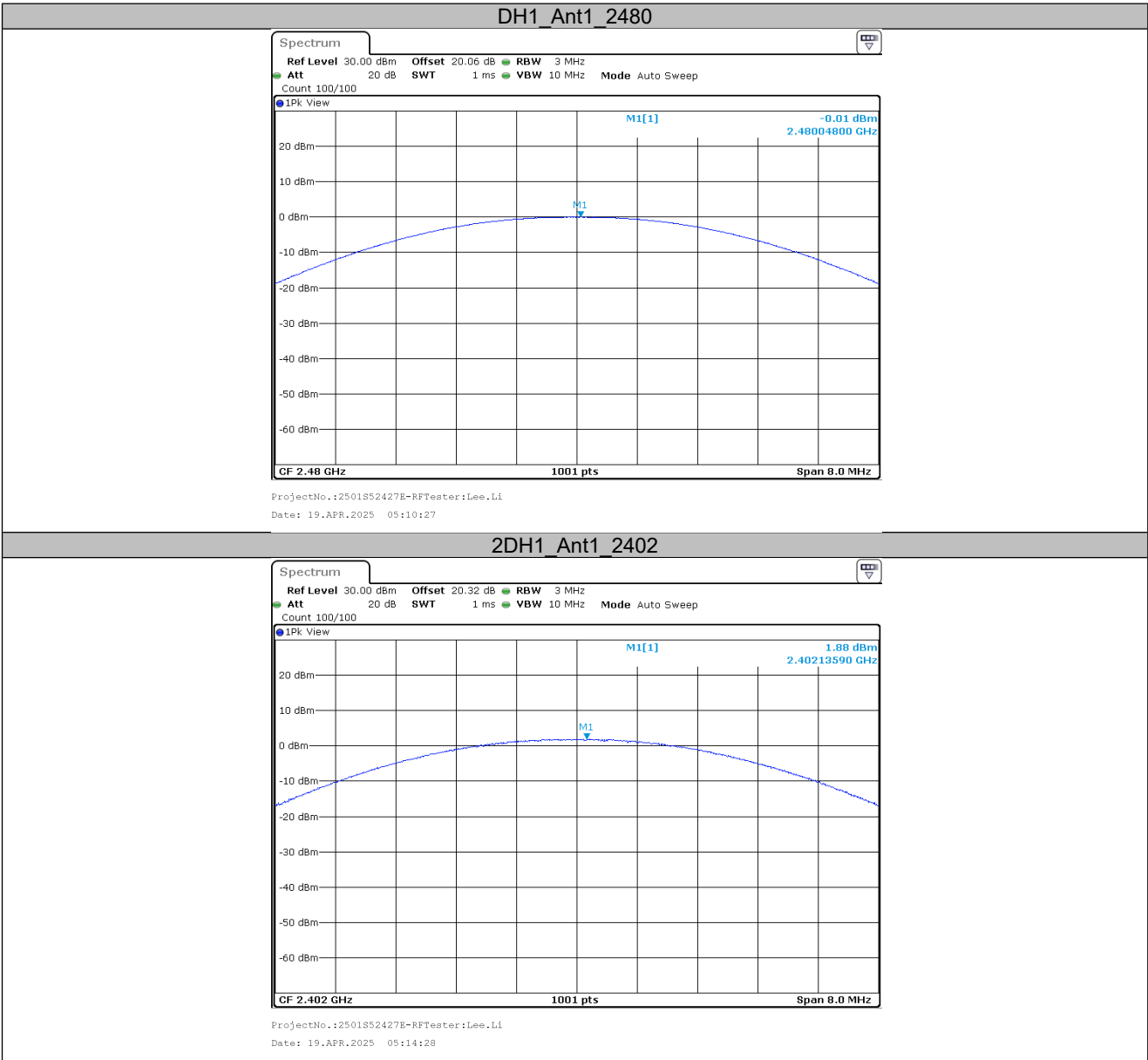


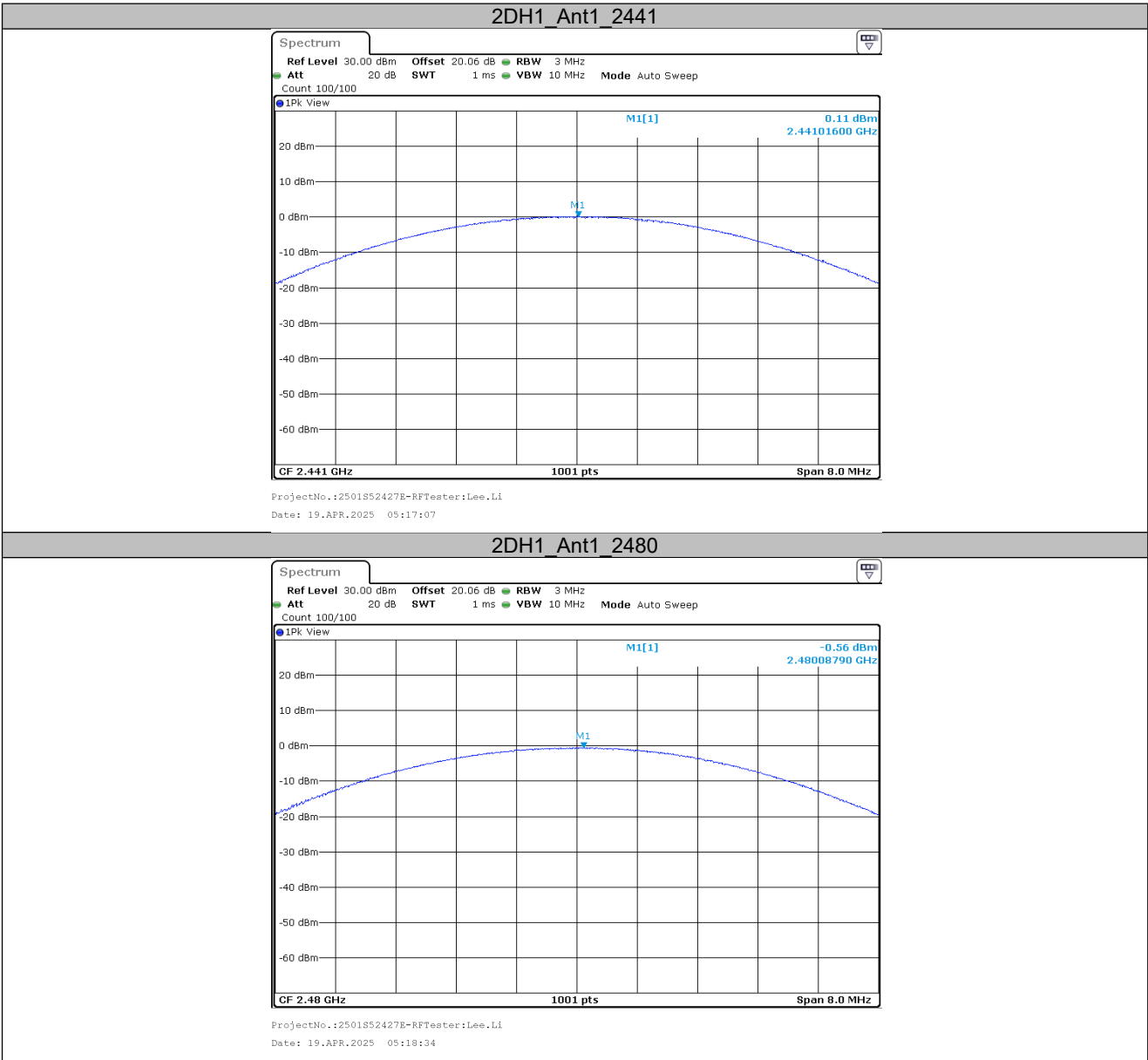


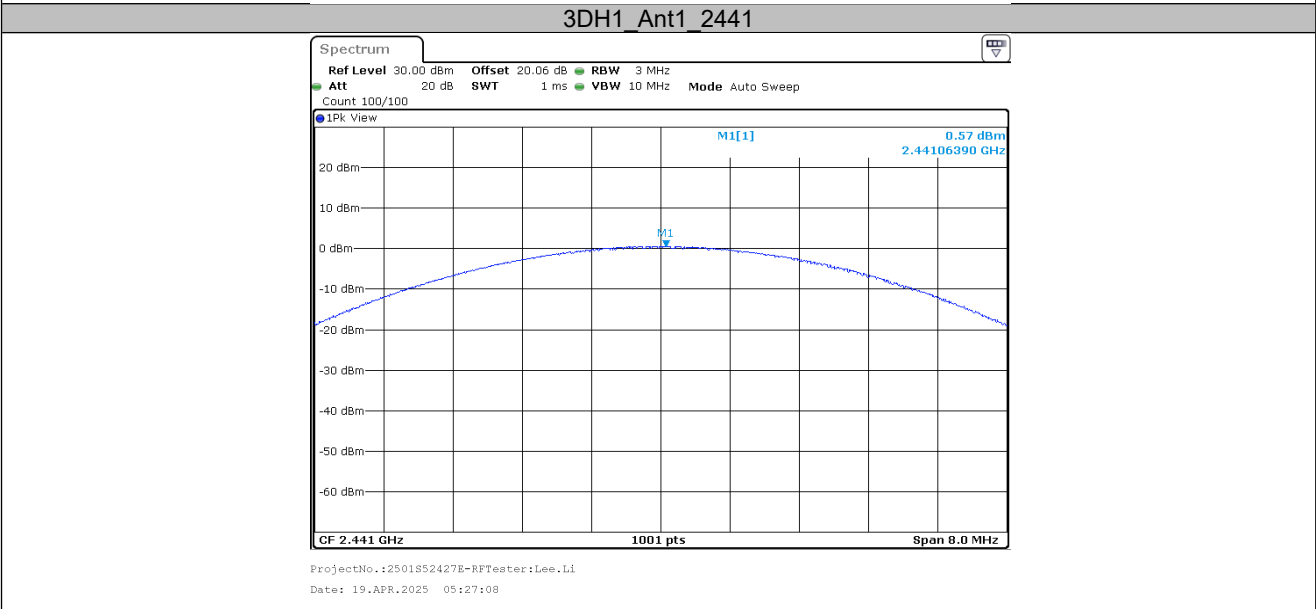
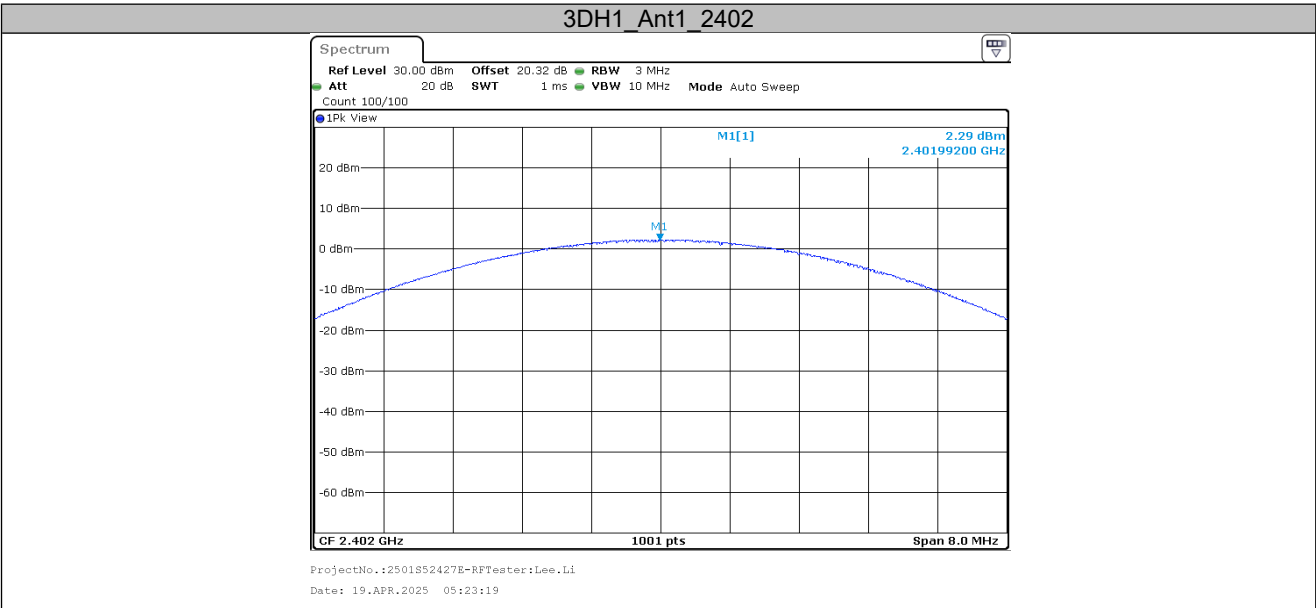
Maximum conducted output power**Test Result Peak**

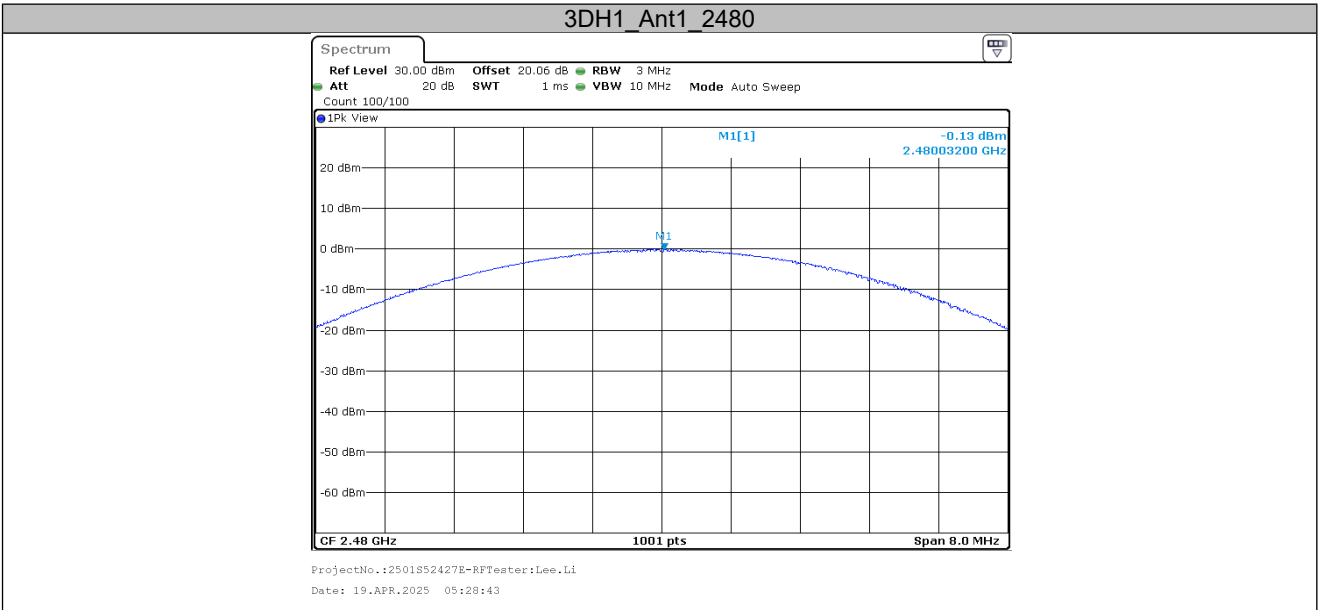
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power [dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant1	2402	2.43	≤20.97	PASS
		2441	0.66	≤20.97	PASS
		2480	-0.01	≤20.97	PASS
2DH1	Ant1	2402	1.88	≤20.97	PASS
		2441	0.11	≤20.97	PASS
		2480	-0.56	≤20.97	PASS
3DH1	Ant1	2402	2.29	≤20.97	PASS
		2441	0.57	≤20.97	PASS
		2480	-0.13	≤20.97	PASS

Test Graphs





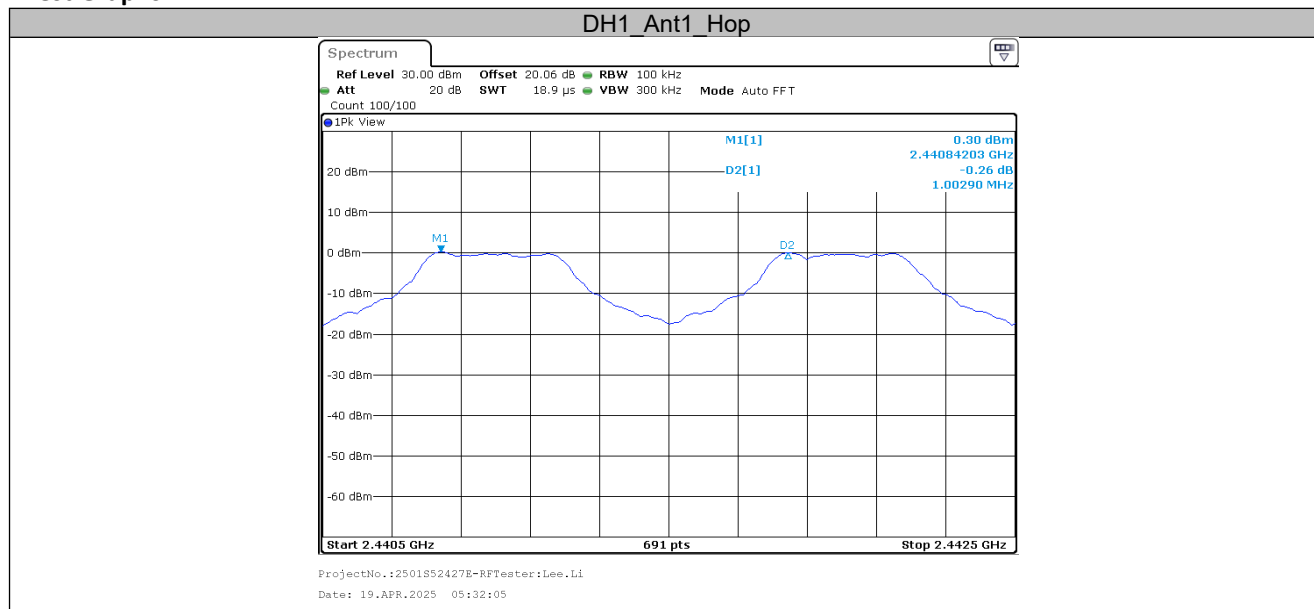




Carrier frequency separation**Test Result**

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop	1.003	≥0.874	PASS

Note: Only the BDR (GFSK) mode result is reported since EDR ($\pi/4$ -DQPSK) and EDR (8DPSK) modes have the exact same channel plan, and the limit is the maximum 20dB bandwidth *2/3

Test Graphs

Time of occupancy**Test Result**

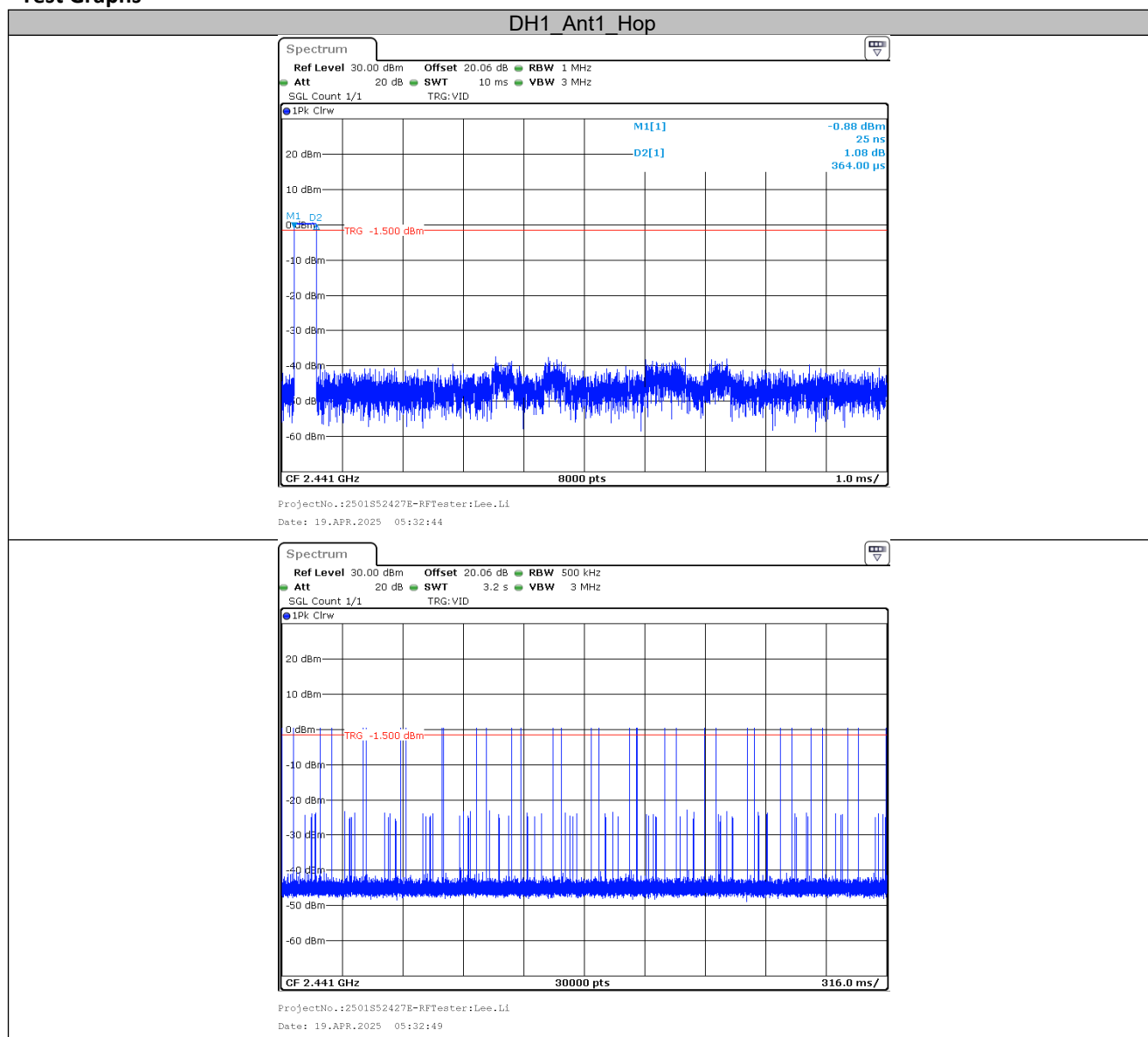
Test Mode	Antenna	Frequency[MHz]	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.364	330	0.12	≤0.4	PASS
DH3	Ant1	Hop	1.613	160	0.258	≤0.4	PASS
DH5	Ant1	Hop	2.853	110	0.314	≤0.4	PASS
2DH1	Ant1	Hop	0.374	330	0.123	≤0.4	PASS
2DH3	Ant1	Hop	1.618	140	0.227	≤0.4	PASS
2DH5	Ant1	Hop	2.859	110	0.314	≤0.4	PASS
3DH1	Ant1	Hop	0.374	330	0.123	≤0.4	PASS
3DH3	Ant1	Hop	1.616	170	0.275	≤0.4	PASS
3DH5	Ant1	Hop	2.860	110	0.315	≤0.4	PASS

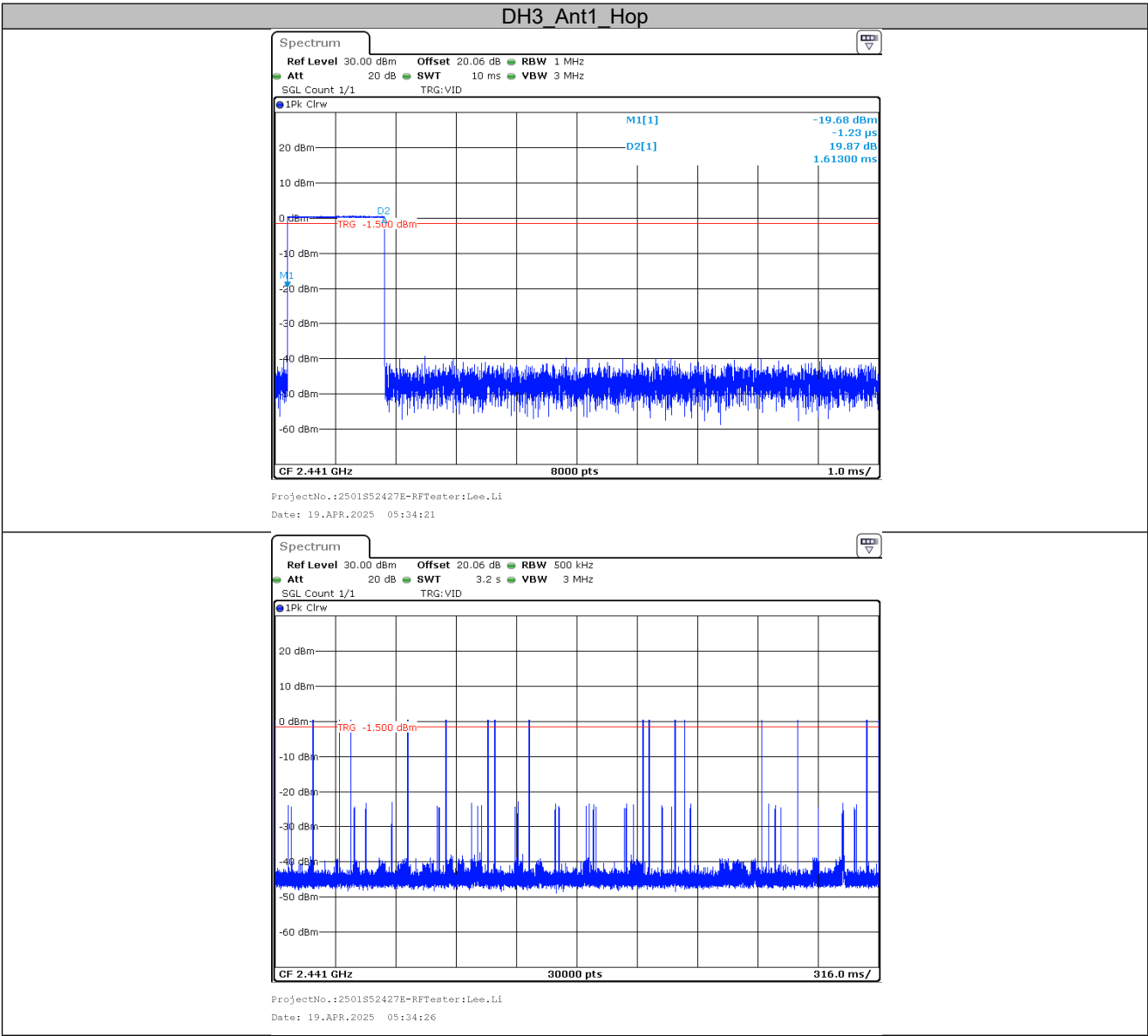
Note 1: A period time=0.4*79=31.6(S), Result=Burst Width*Total hops

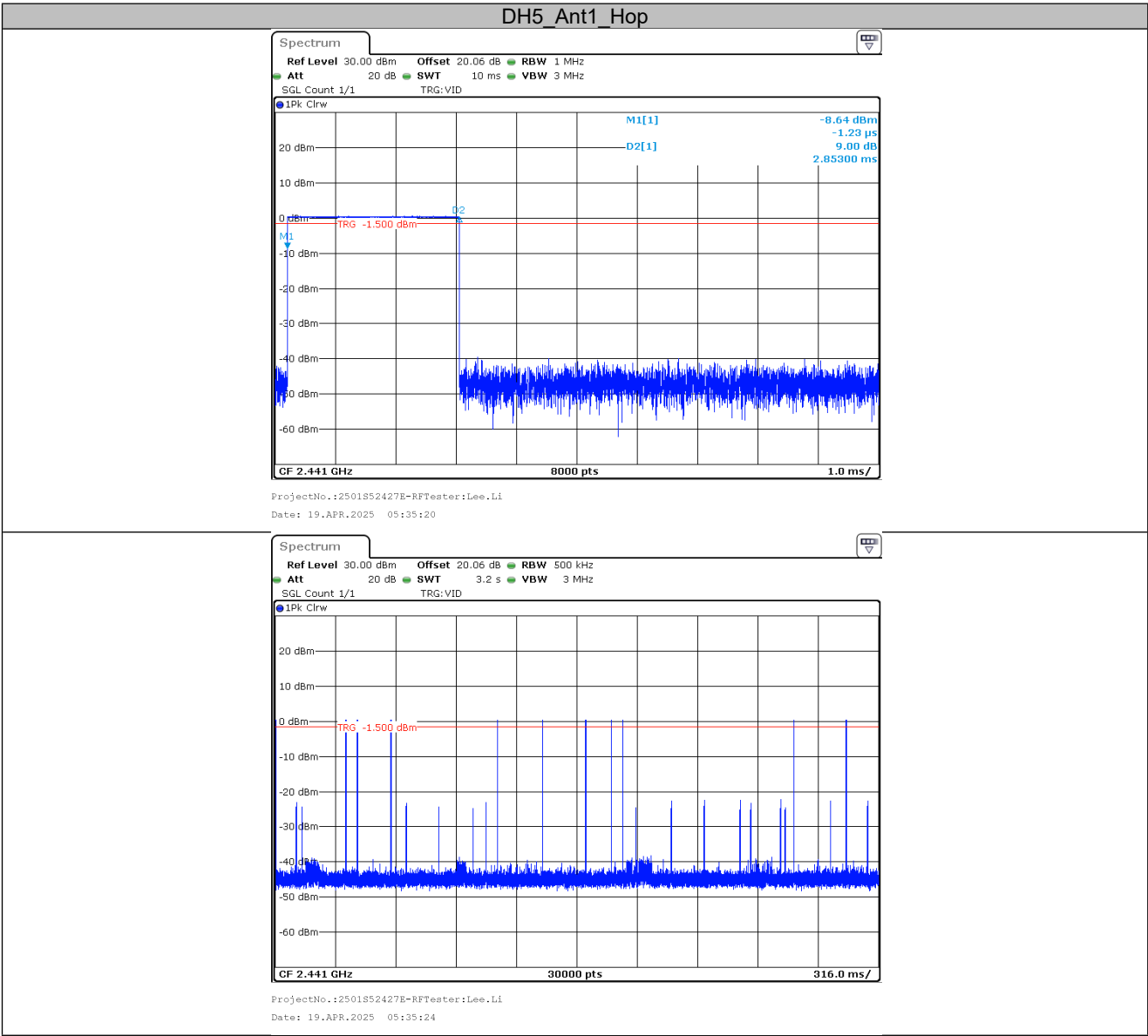
Note 2: Total hops=Hopping Number in 3.16s*10

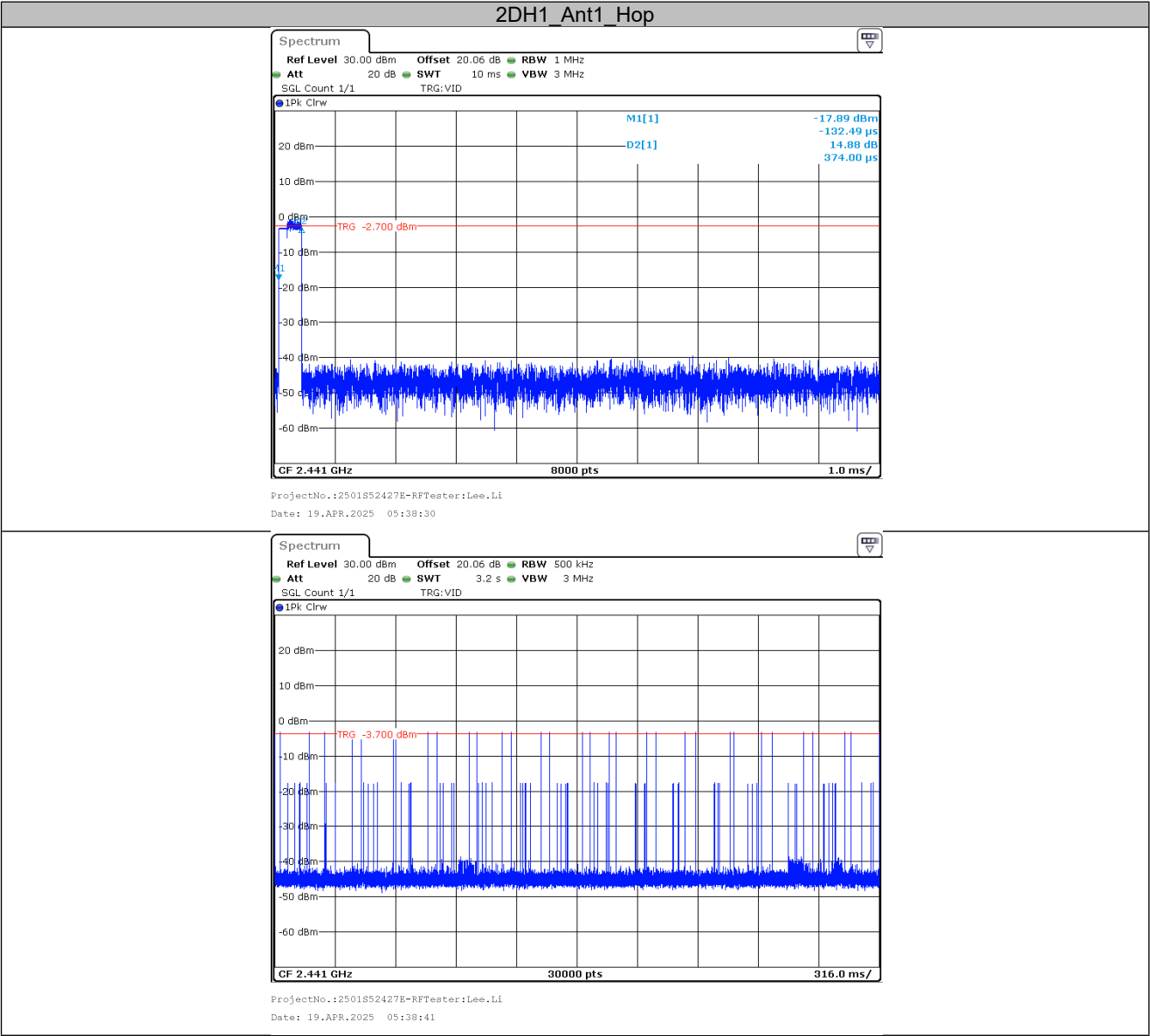
Note 3: Hopping Number in 3.16s=Total of highest signals in 3.16s(Second high signals were other channel)

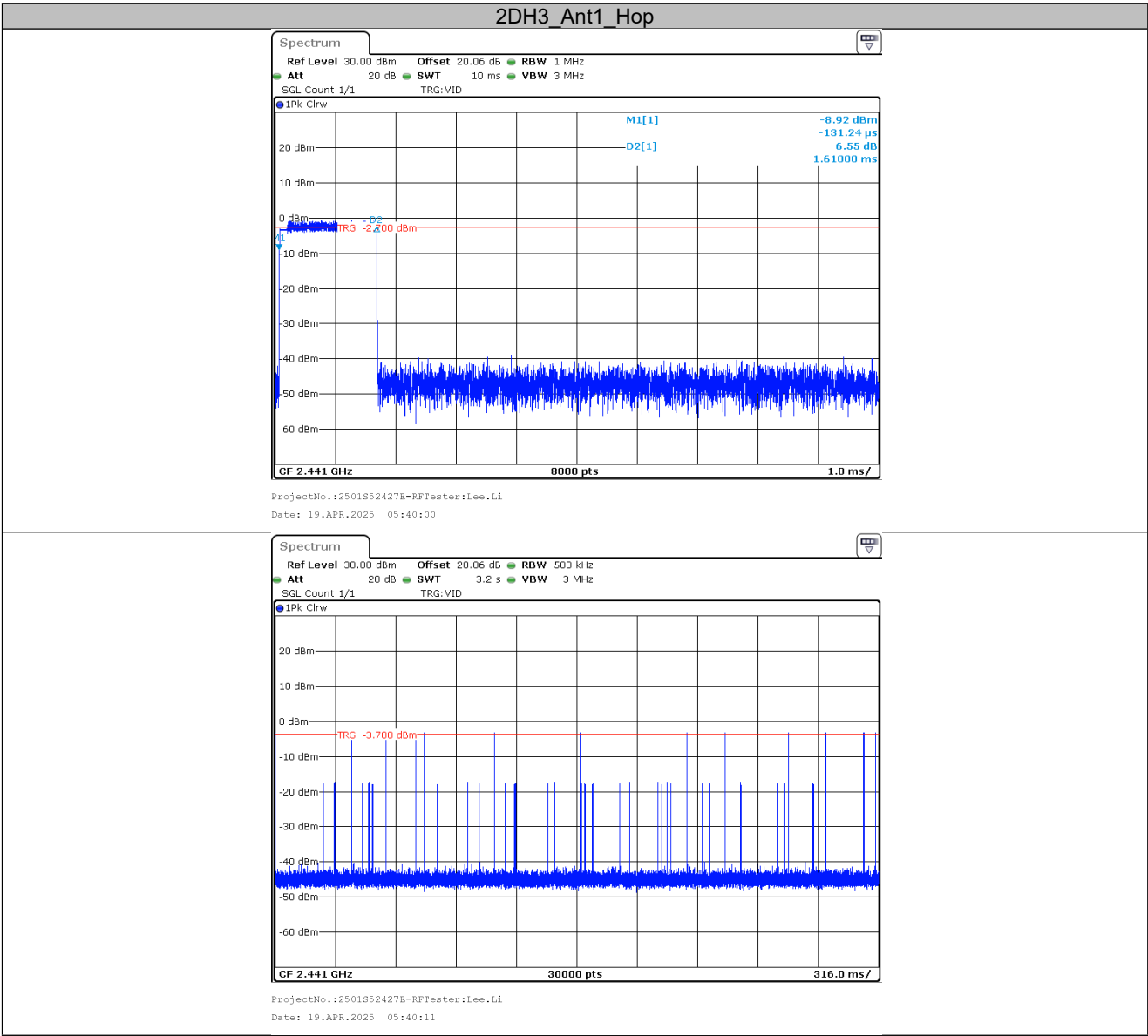
Test Graphs



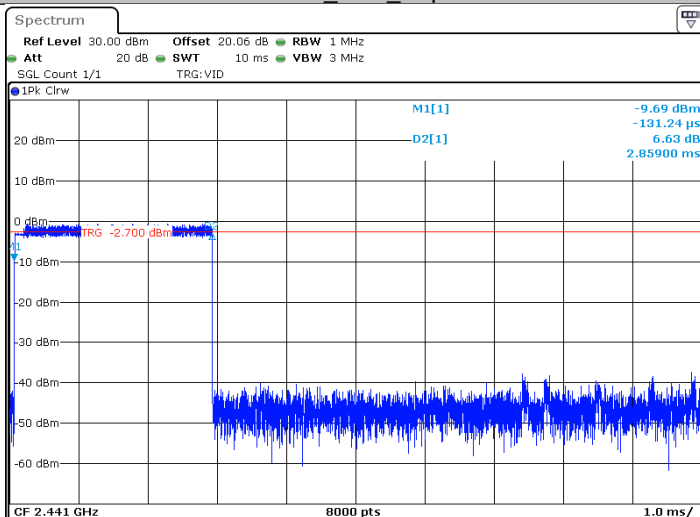




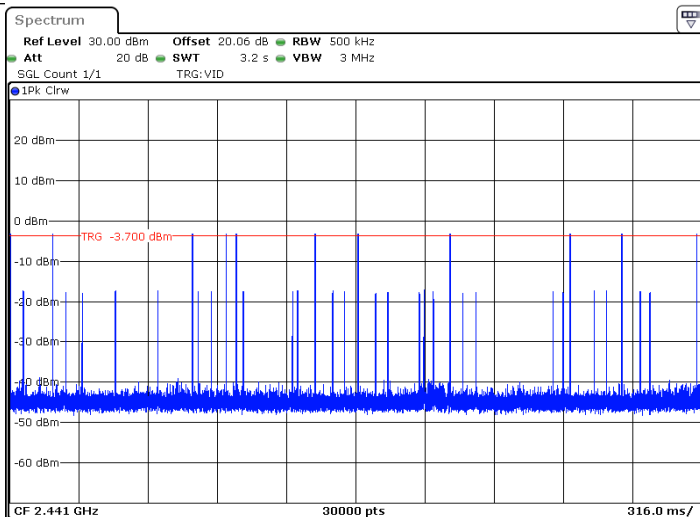




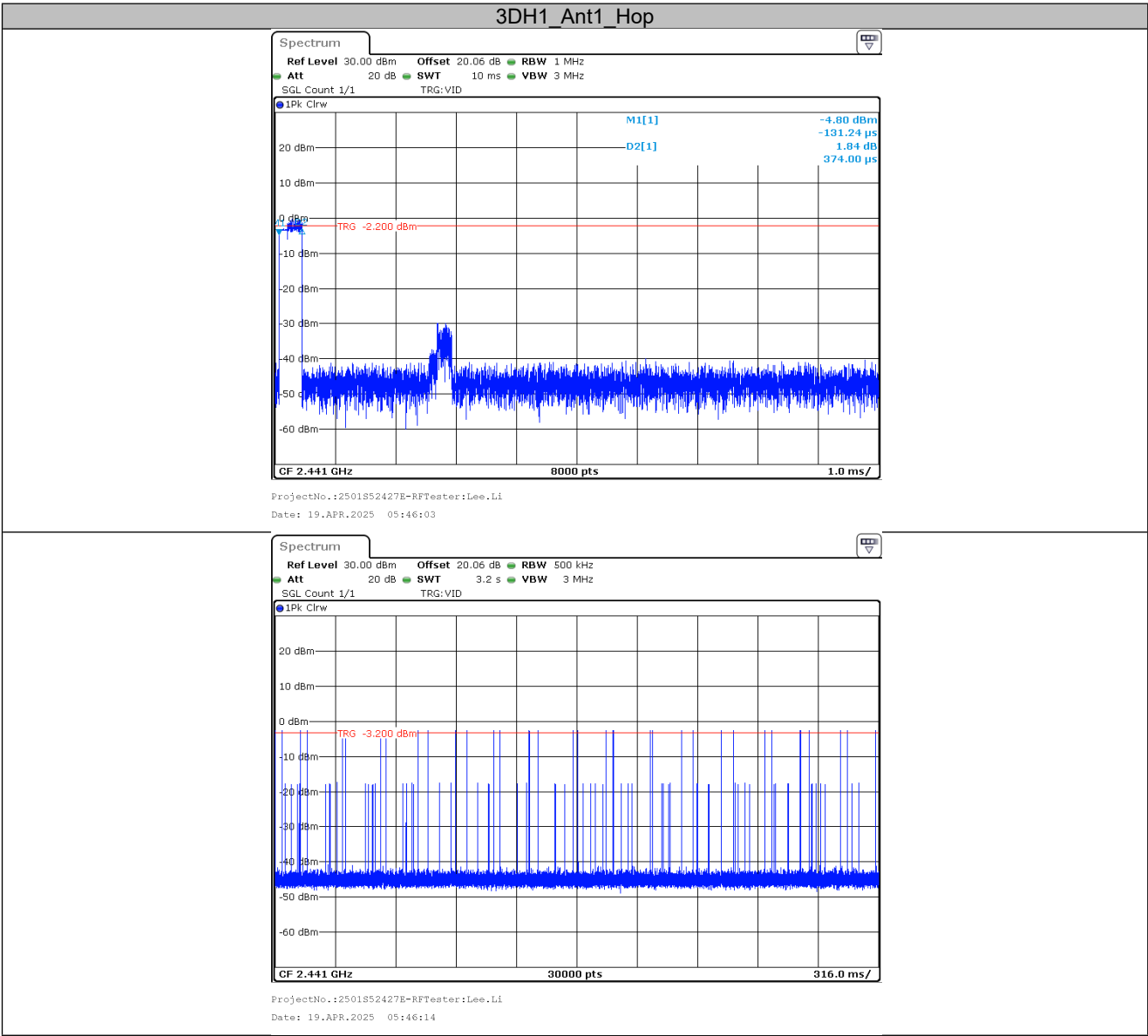
2DH5_Ant1_Hop

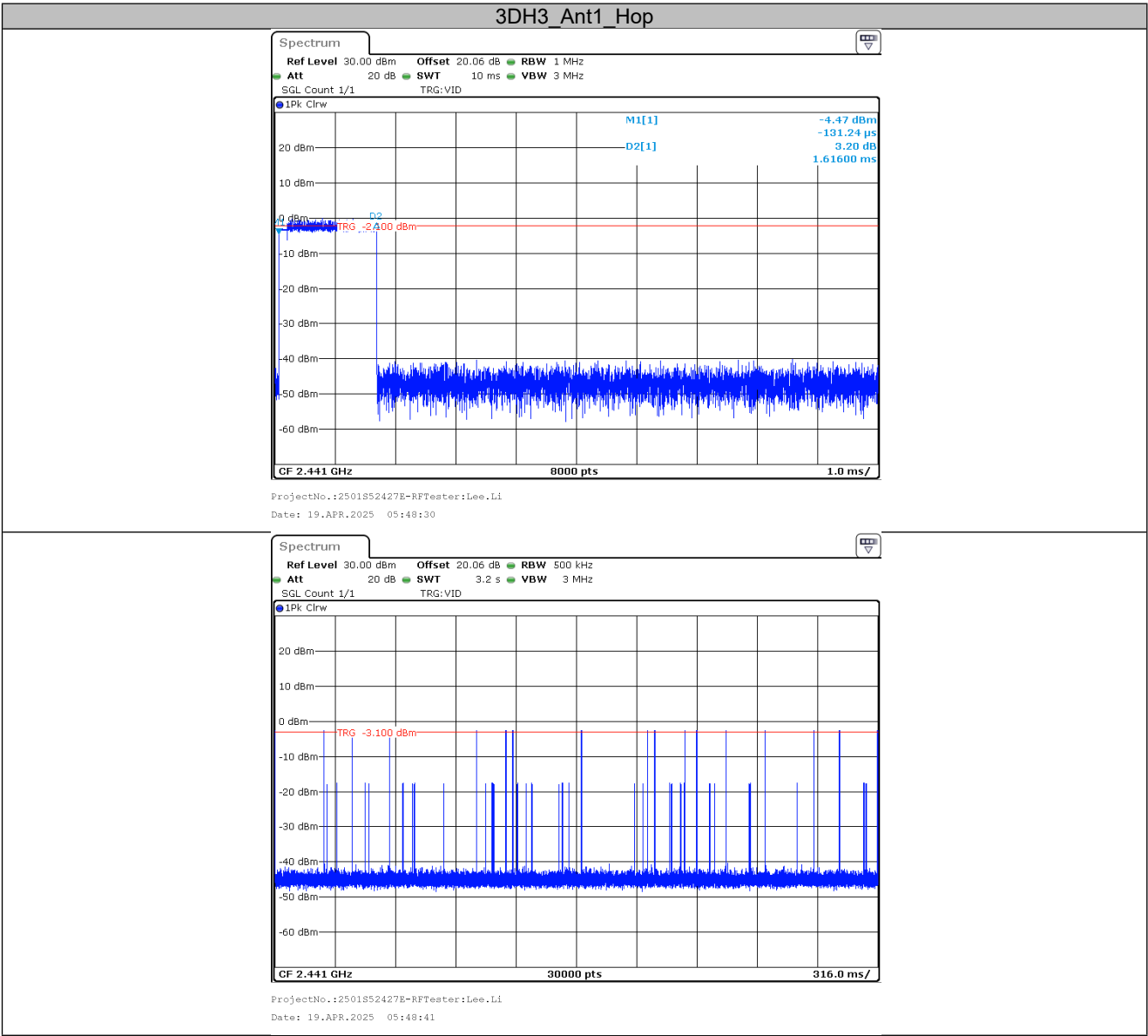


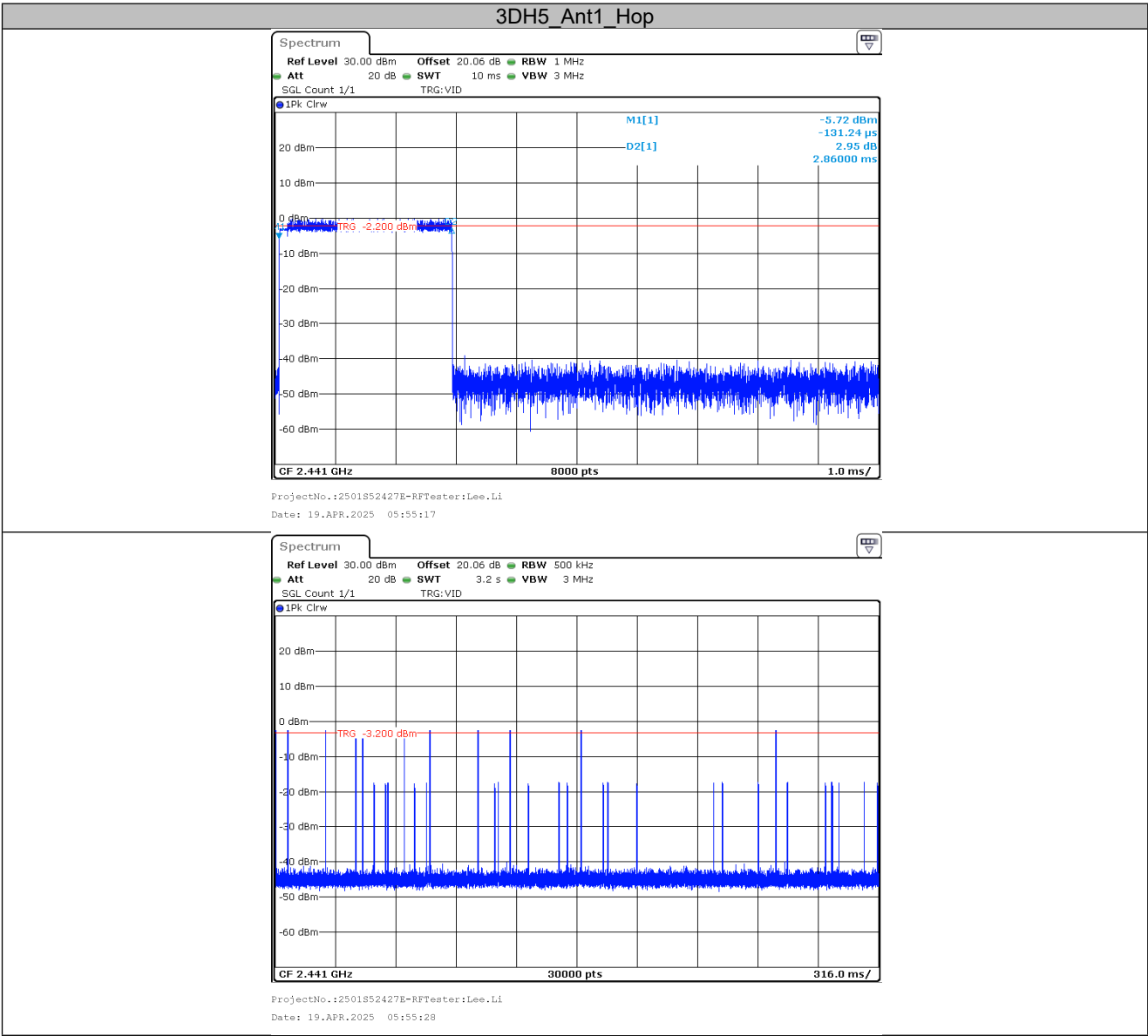
ProjectNo.:2501S52427E-RFTester:Lee.Li
Date: 19.APR.2025 05:41:27



ProjectNo.:2501S52427E-RFTester:Lee.Li
Date: 19.APR.2025 05:41:38





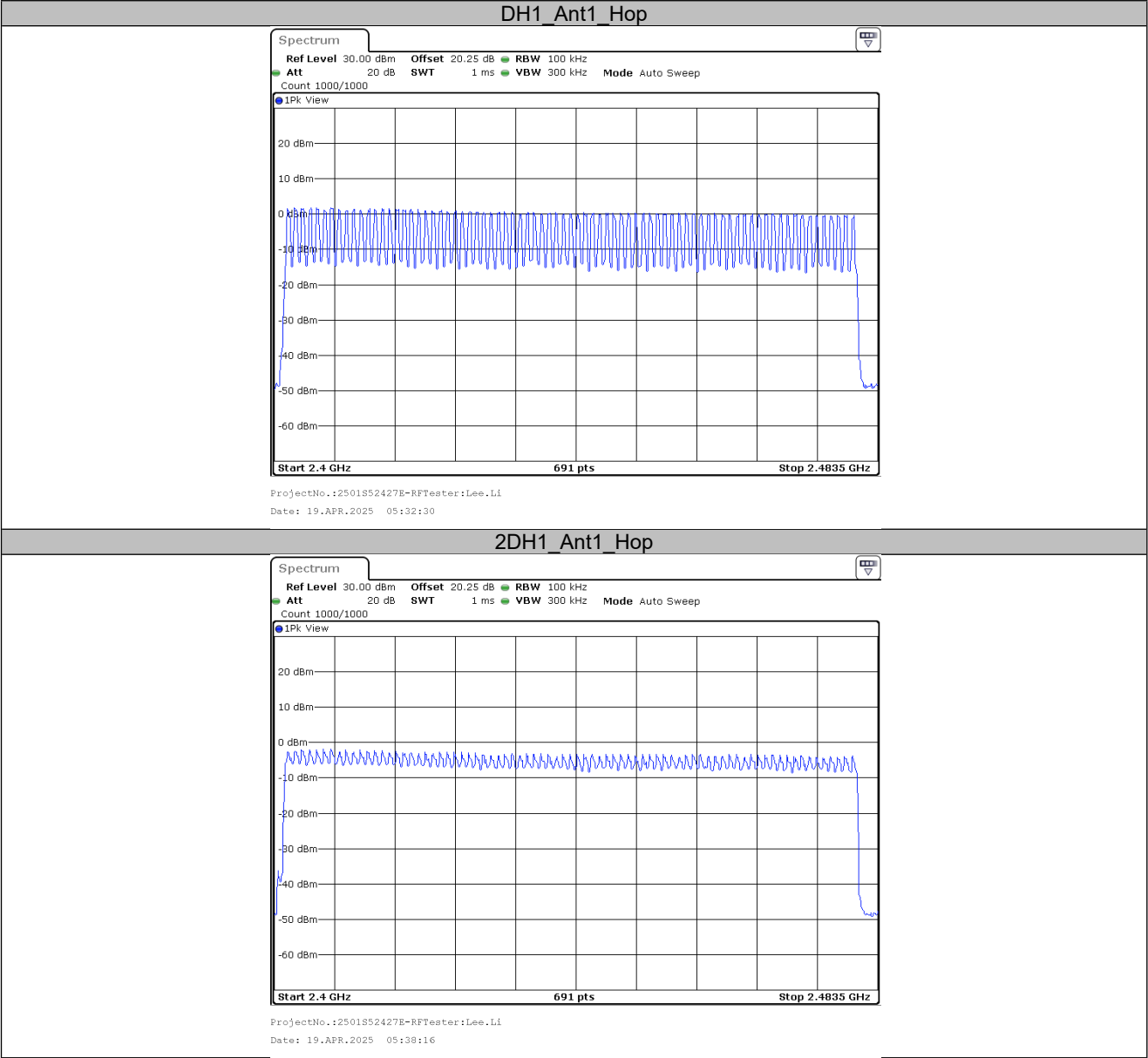


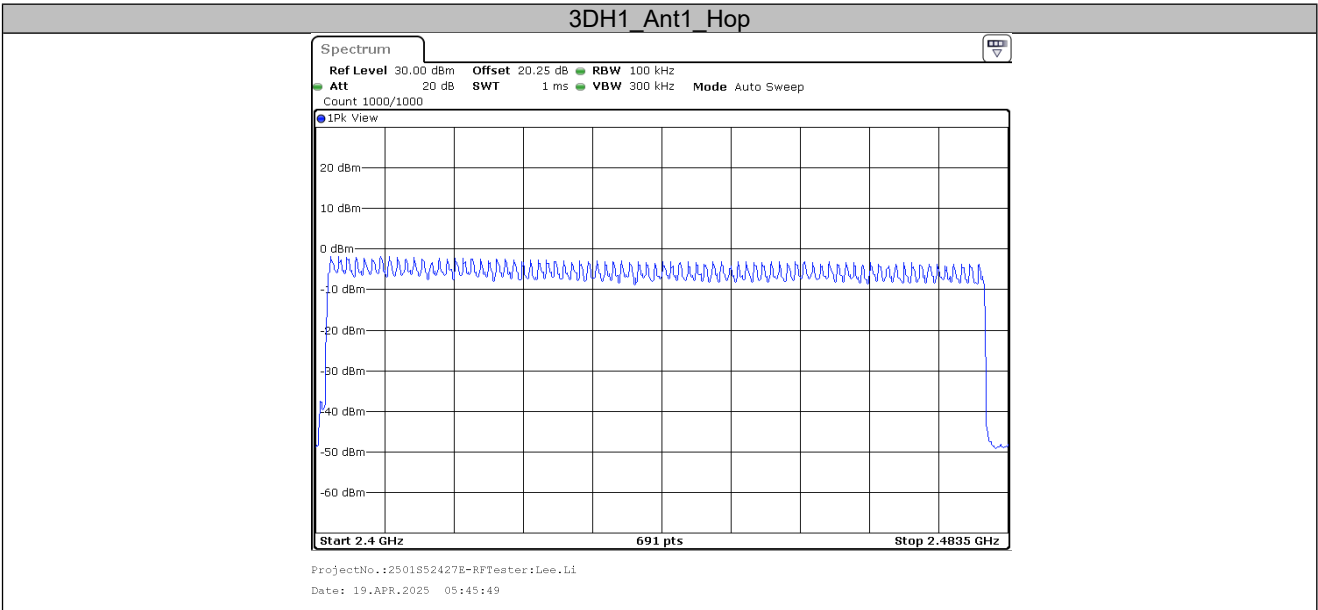
Number of hopping channels

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Hop	79	≥15	PASS
2DH1	Ant1	Hop	79	≥15	PASS
3DH1	Ant1	Hop	79	≥15	PASS

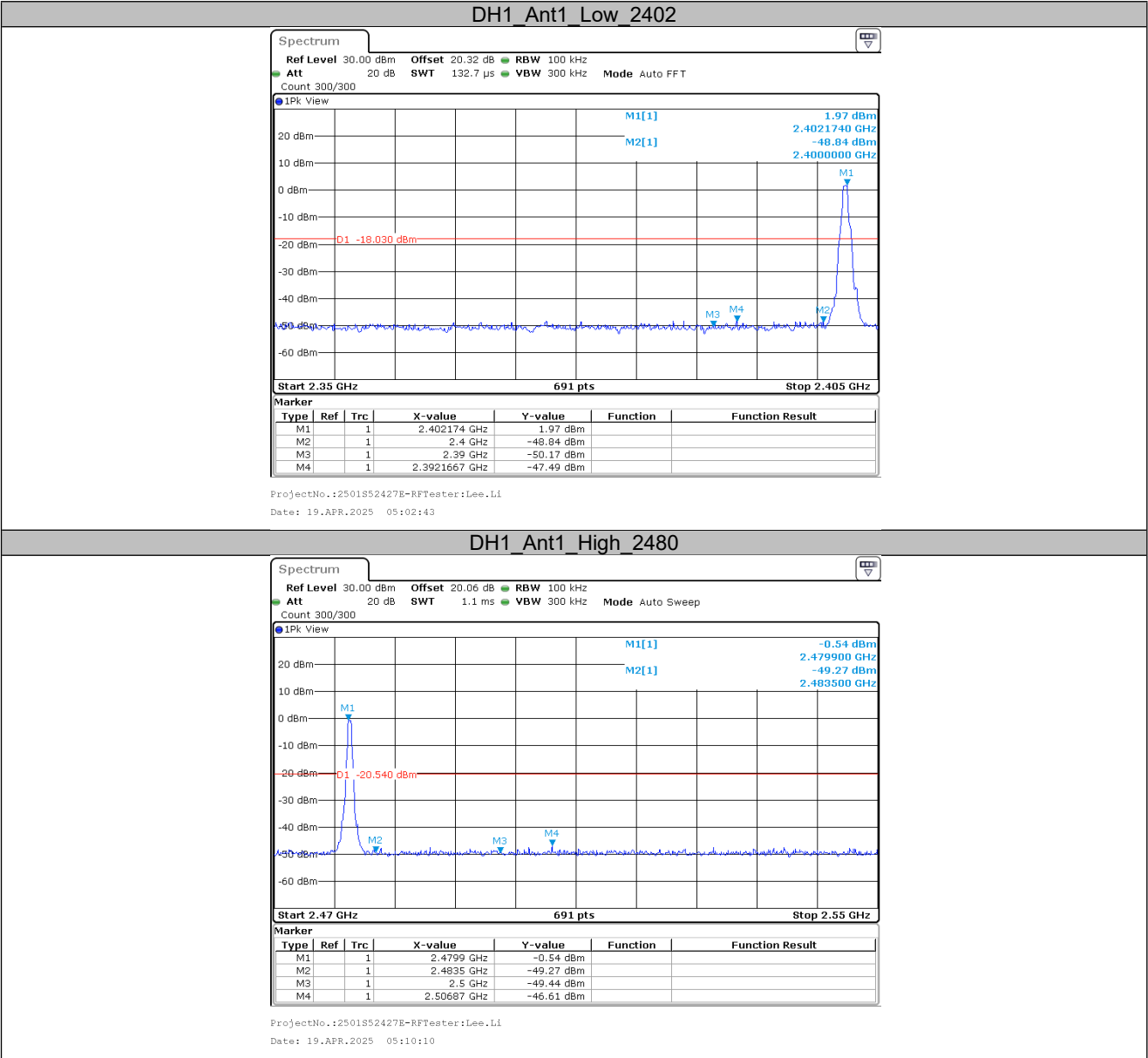
Test Graphs



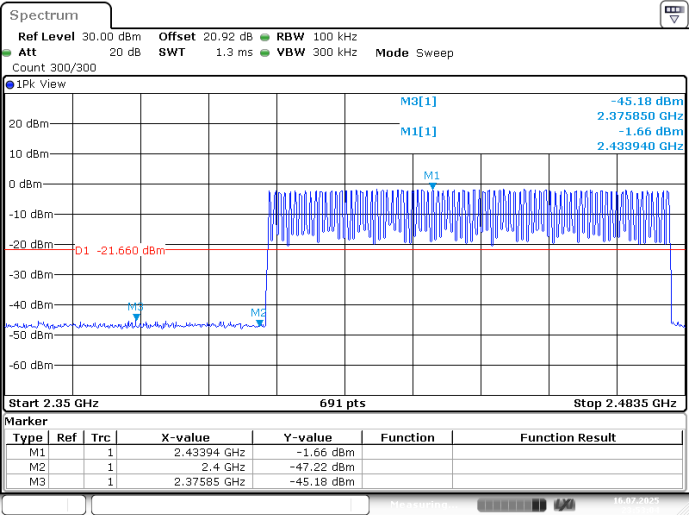


Band edge measurements

Test Graphs

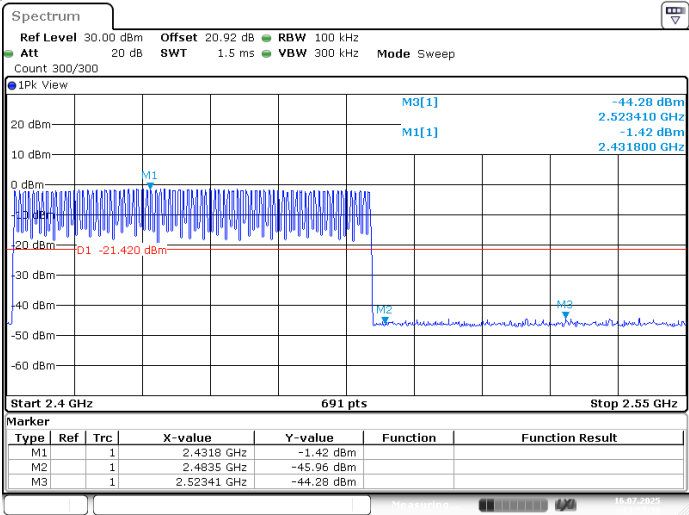


DH1_Ant1_Low_Hop_2402

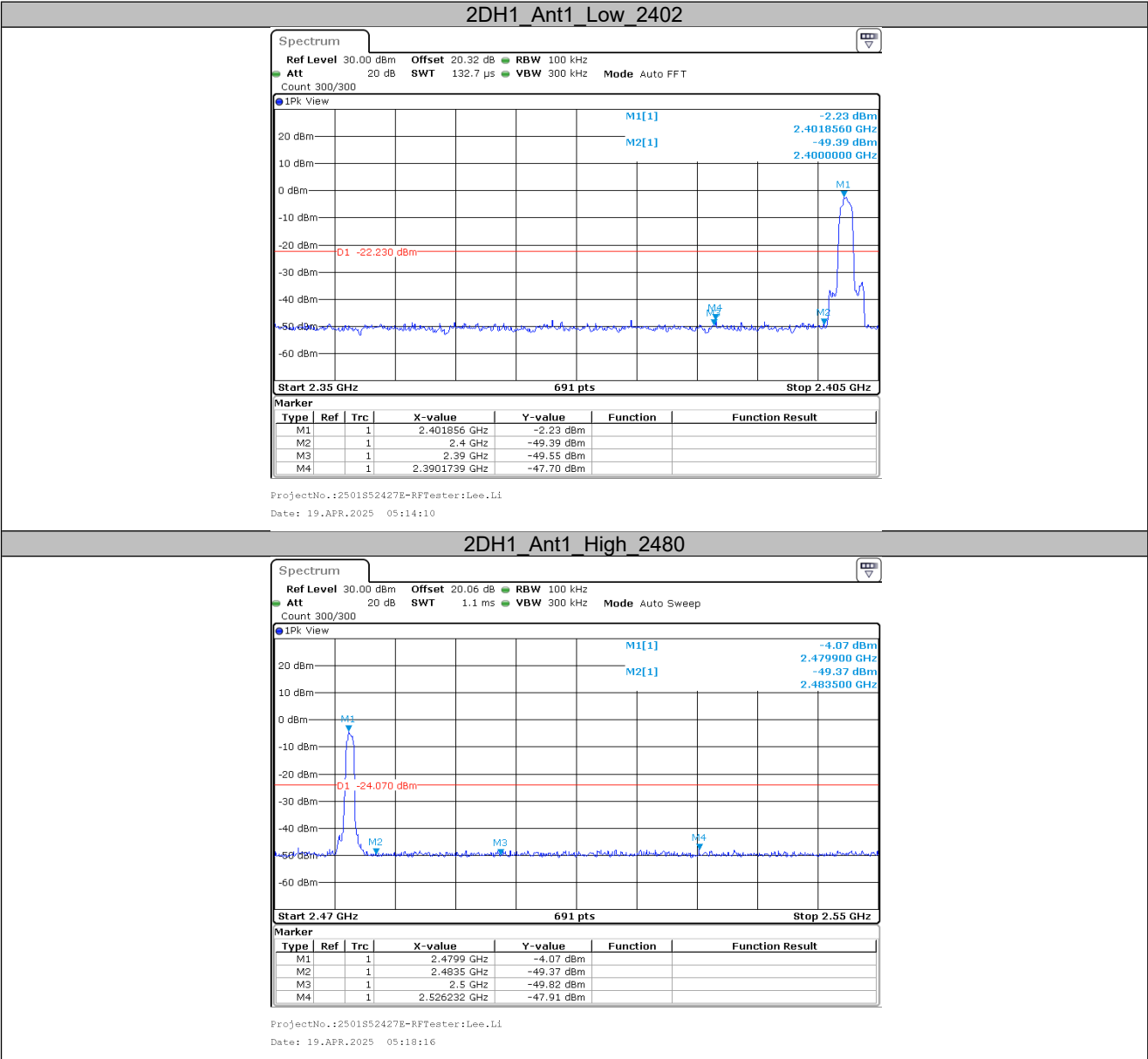


ProjectNo.:2501S52427E-RF Tester:Lee.Li
Date: 16.JUL.2025 23:53:04

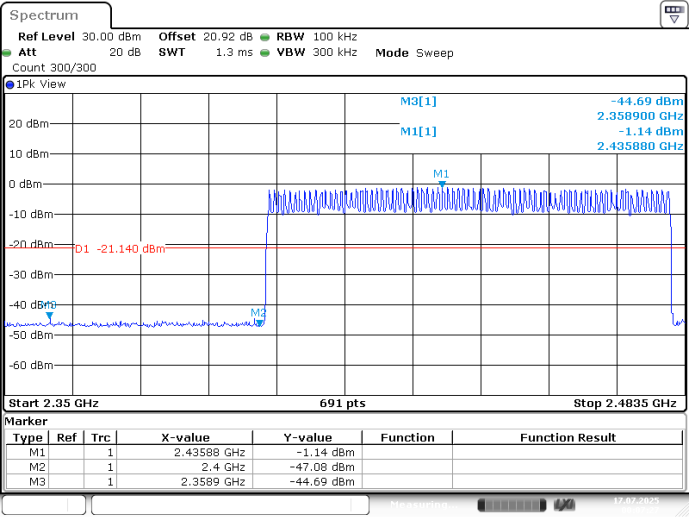
DH1_Ant1_High_Hop_2480



ProjectNo.:2501S52427E-RF Tester:Lee.Li
Date: 16.JUL.2025 23:57:30

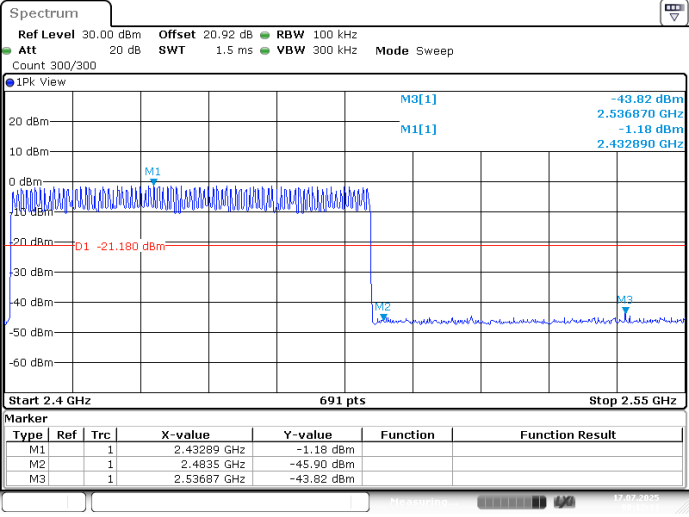


2DH1_Ant1_Low_Hop_2402

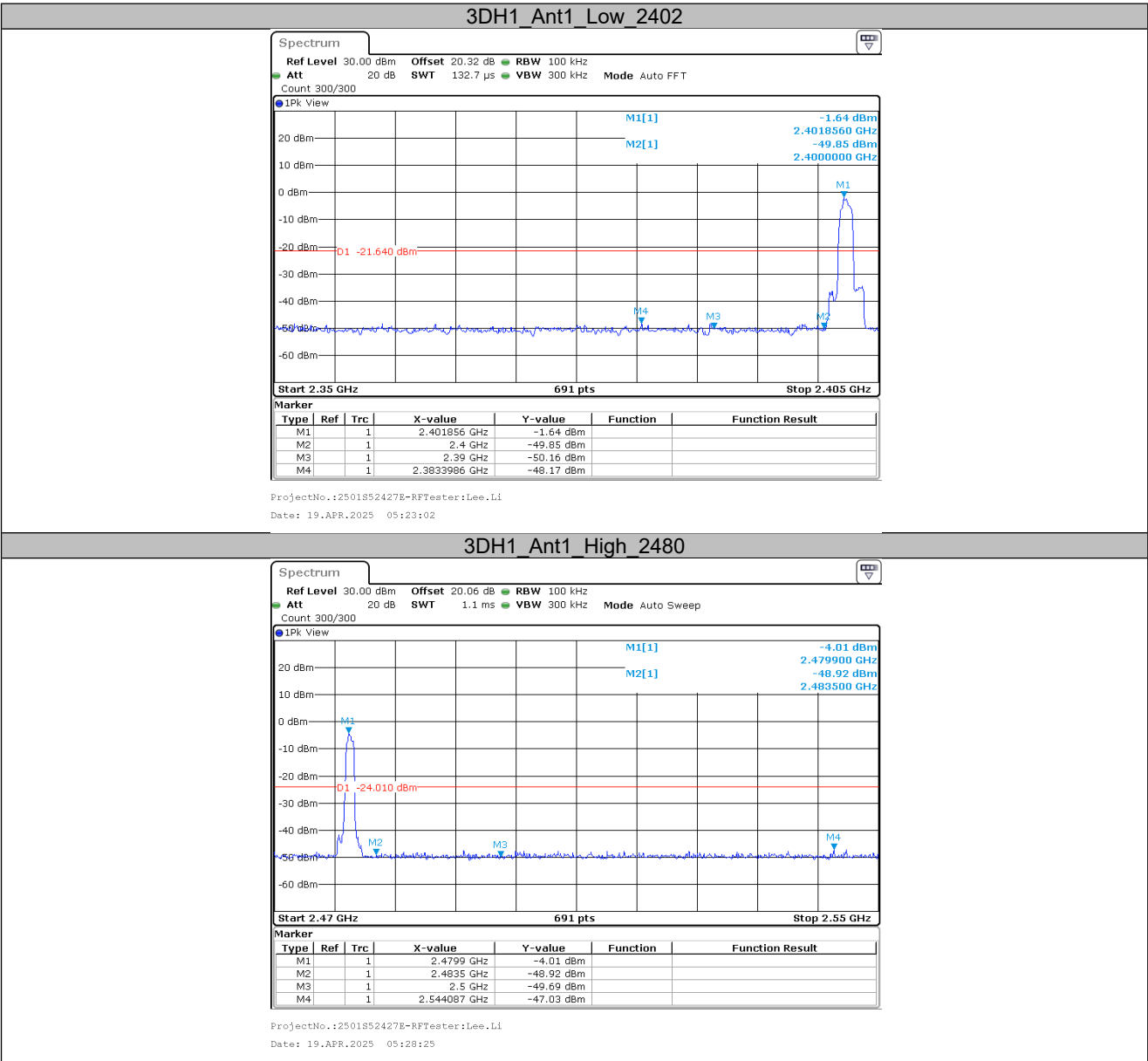


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Date: 17.JUL.2025 00:07:27

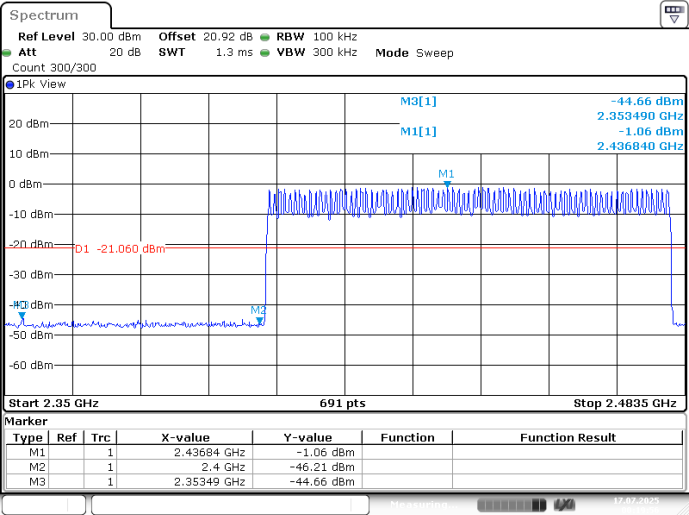
2DH1_Ant1_High_Hop_2480



ProjectNo.:2501S52427E-RF Tester:Lee.Li
Date: 17.JUL.2025 00:12:13

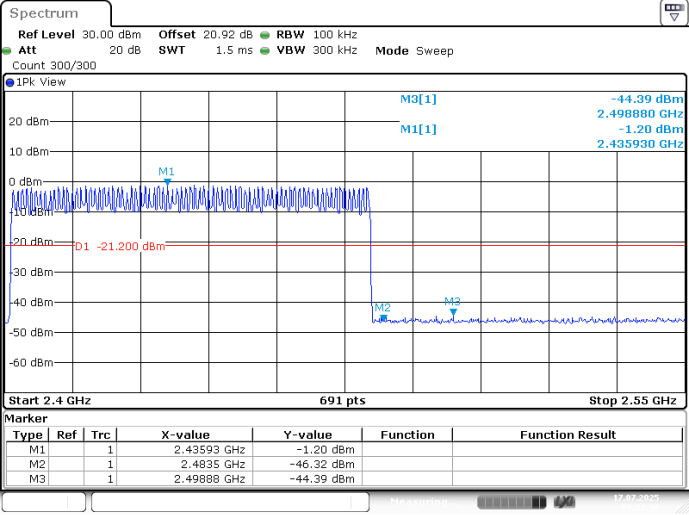


3DH1_Ant1_Low_Hop_2402



ProjectNo.:2501S52427E-RF Tester:Lee.Li
Date: 17.JUL.2025 00:19:56

3DH1_Ant1_High_Hop_2480



ProjectNo.:2501S52427E-RF Tester:Lee.Li
Date: 17.JUL.2025 00:22:36

DH1_Low



ProjectNo.:2501S52427E-RF Tester:Rainbow Zhu
Date: 10.SEP.2025 15:52:45

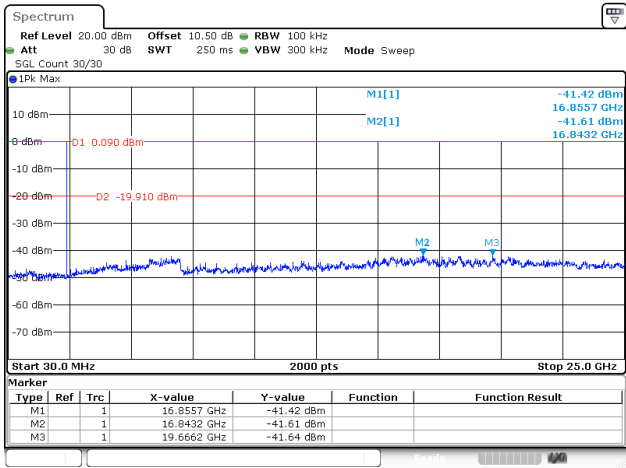
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Date: 10.SEP.2025 15:37:35

ProjectNo.:2501S52427E-RF Tester:Rainbow Zhu
Date: 10.SEP.2025 15:38:53

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Date: 10.SEP.2025 15:40:03

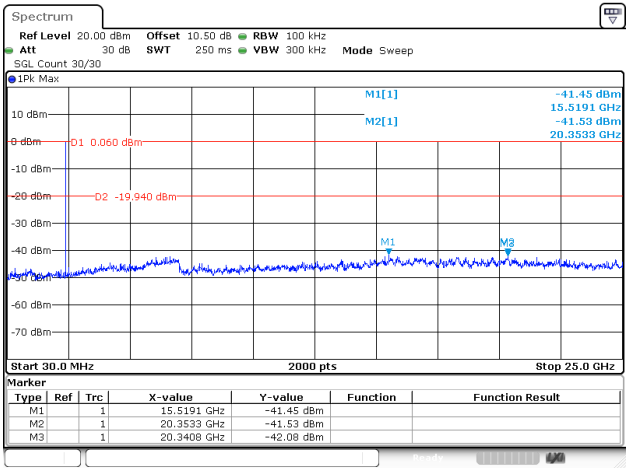
ProjectNo.:2501S52427E-RF Tester:Rainbow Zhu
Date: 10.SEP.2025 16:00:14

3DH1_Low



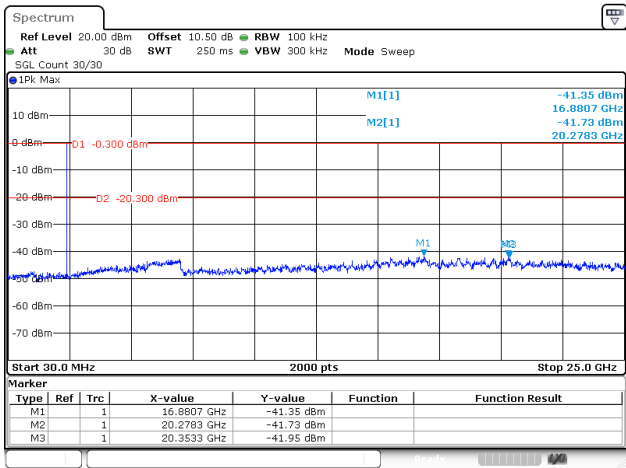
ProjectNo.:2501S52427E-RF Tester:Rainbow Zhu
Date: 10.SEP.2025 15:42:51

3DH1_Middle



ProjectNo.:2501S52427E-RF Tester:Rainbow Zhu
Date: 10.SEP.2025 15:44:03

3DH1_High



ProjectNo.:2501S52427E-RF Tester:Rainbow Zhu
Date: 10.SEP.2025 15:45:21