

Appendix J

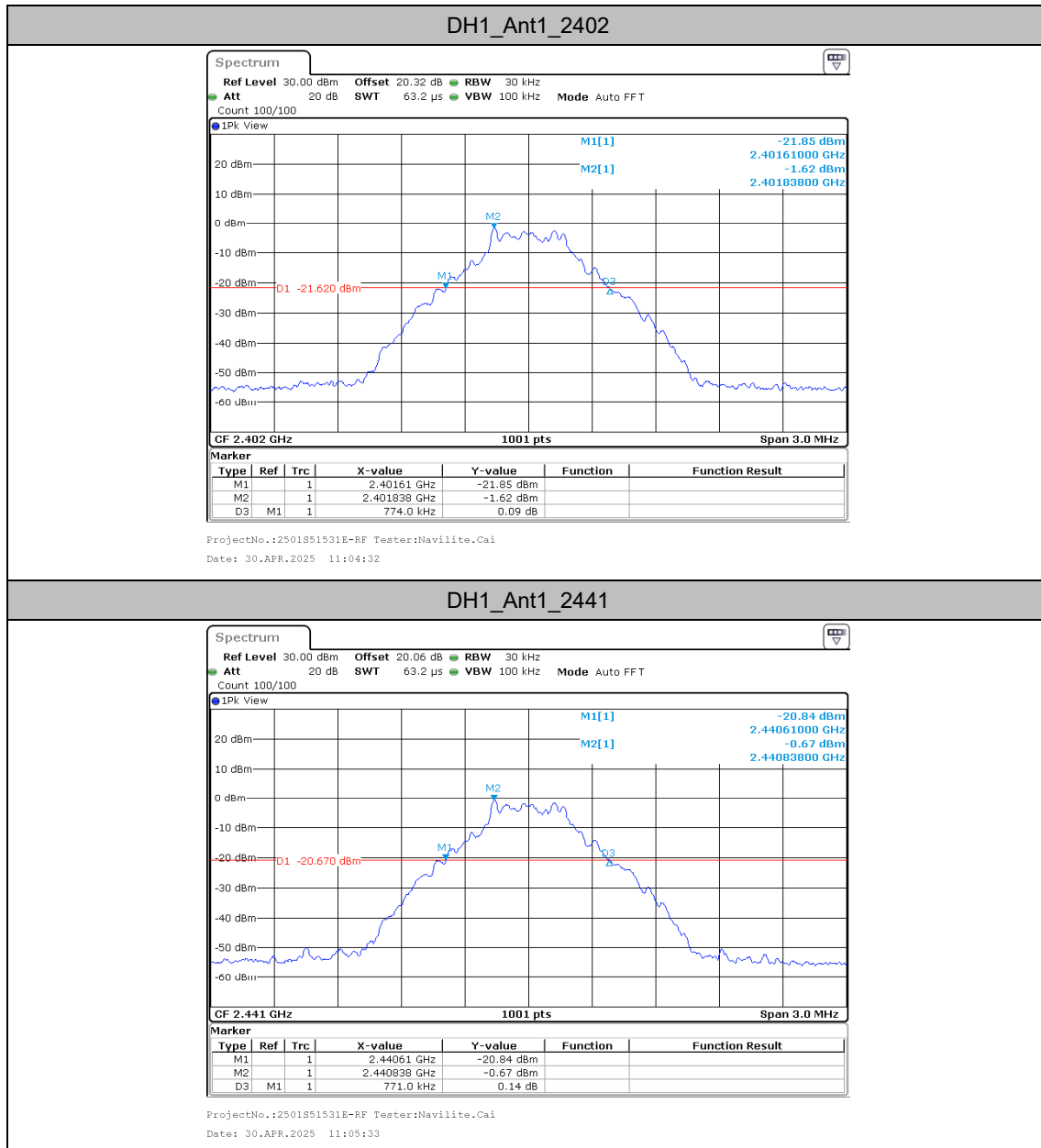
Case No. : <u>2501S51531E-RF</u>
Ambient Condition: <u>24.6-25.5℃</u> , <u>38-49%RH</u> , <u>100.2-100.6kPa</u>
According Standard: <u>■Part15.247/RSS 247</u>
Test Date: <u>2025-4-30~2025-5-30</u> Test Engineer: <u>Navilite.Cai</u> Test Mode: <u>Transmitting</u>

20dB Emission Bandwidth

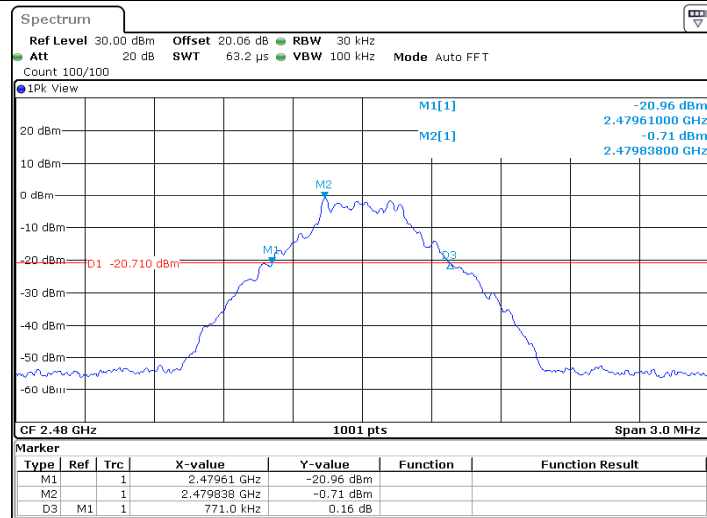
Test Result

Test Mode	Antenna	Frequency[MHz]	20dB EBW[MHz]	FL[MHz]	FH[MHz]
DH1	Ant1	2402	0.77	2401.61	2402.38
		2441	0.77	2440.61	2441.38
		2480	0.77	2479.61	2480.38
2DH1	Ant1	2402	1.22	2401.38	2402.60
		2441	1.22	2440.38	2441.60
		2480	1.22	2479.38	2480.60
3DH1	Ant1	2402	1.22	2401.40	2402.62
		2441	1.22	2440.40	2441.62
		2480	1.22	2479.40	2480.62

Test Graphs

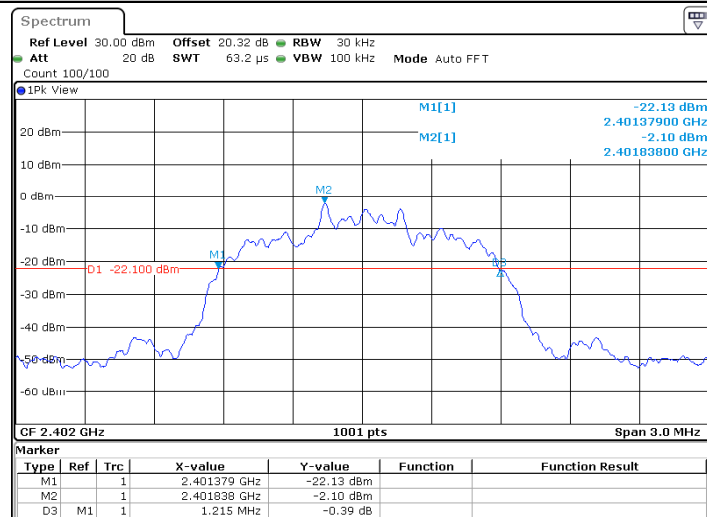


DH1_Ant1_2480



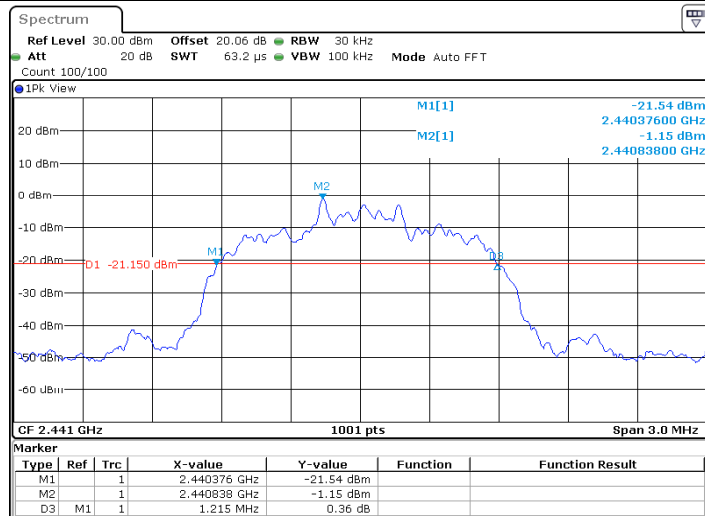
ProjectNo.:2501S51531E-RF Tester:Navilite,Cai
Date: 30.APR.2025 11:06:23

2DH1_Ant1_2402



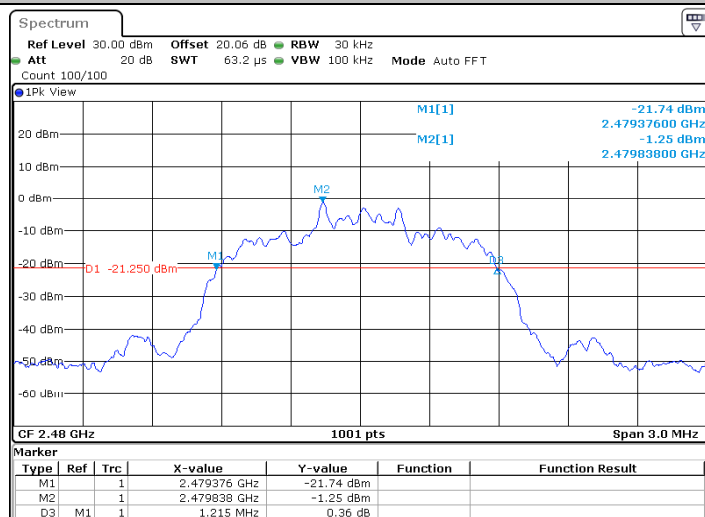
ProjectNo.:2501S51531E-RF Tester:Navilite,Cai
Date: 30.APR.2025 11:07:51

2DH1_Ant1_2441



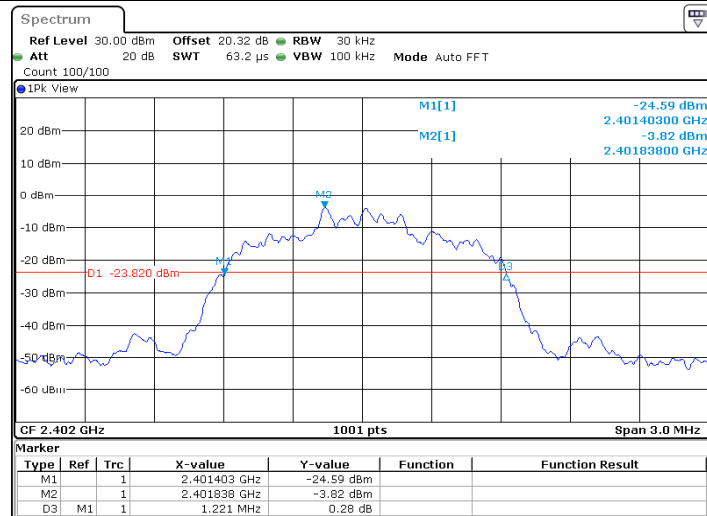
ProjectNo.:2501S51531E-RF Tester:Navilite.Cai
Date: 30.APR.2025 11:10:12

2DH1_Ant1_2480



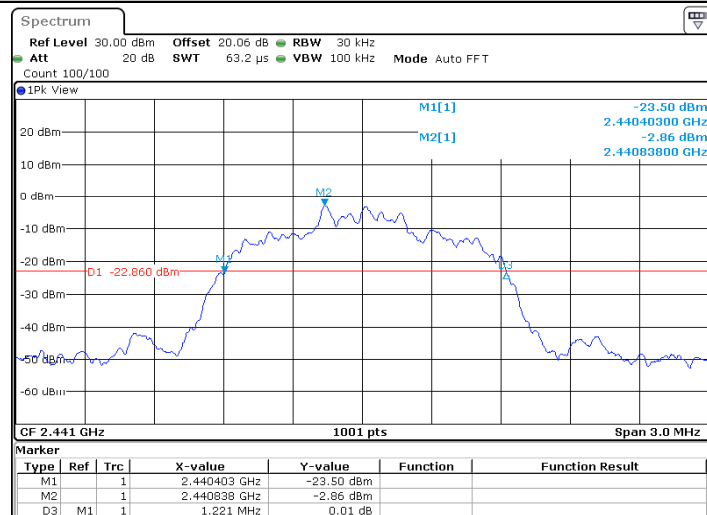
ProjectNo.:2501S51531E-RF Tester:Navilite.Cai
Date: 30.APR.2025 11:11:15

3DH1_Ant1_2402

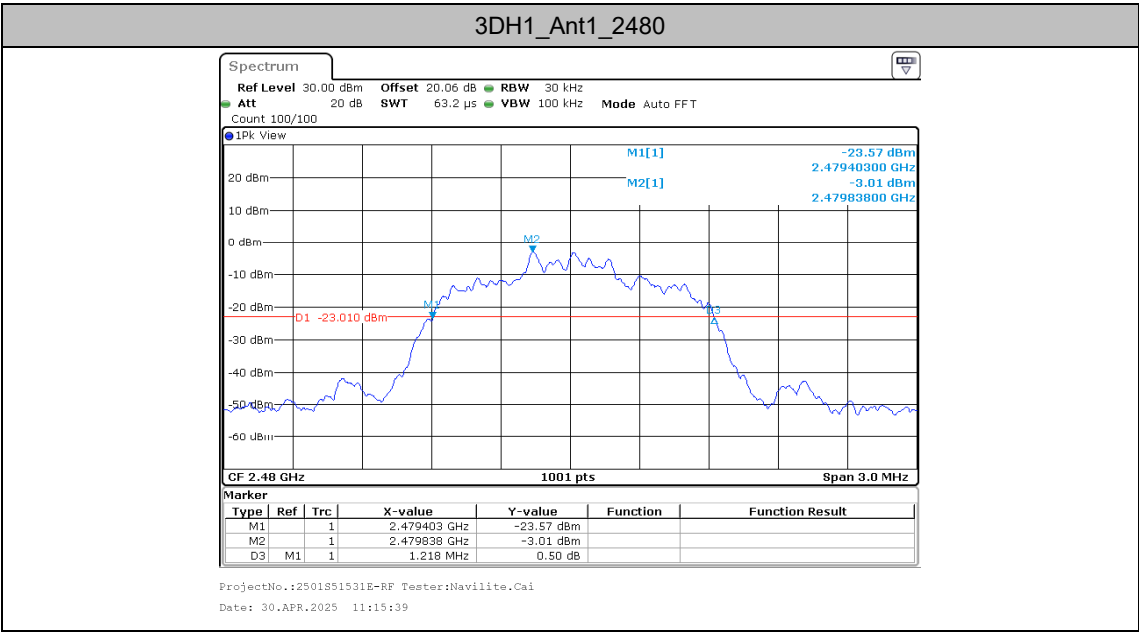


ProjectNo.:2501S51531E-RF Tester:Navillite.Cai
Date: 30.APR.2025 11:13:41

3DH1_Ant1_2441



ProjectNo.:2501S51531E-RF Tester:Navillite.Cai
Date: 30.APR.2025 11:14:49

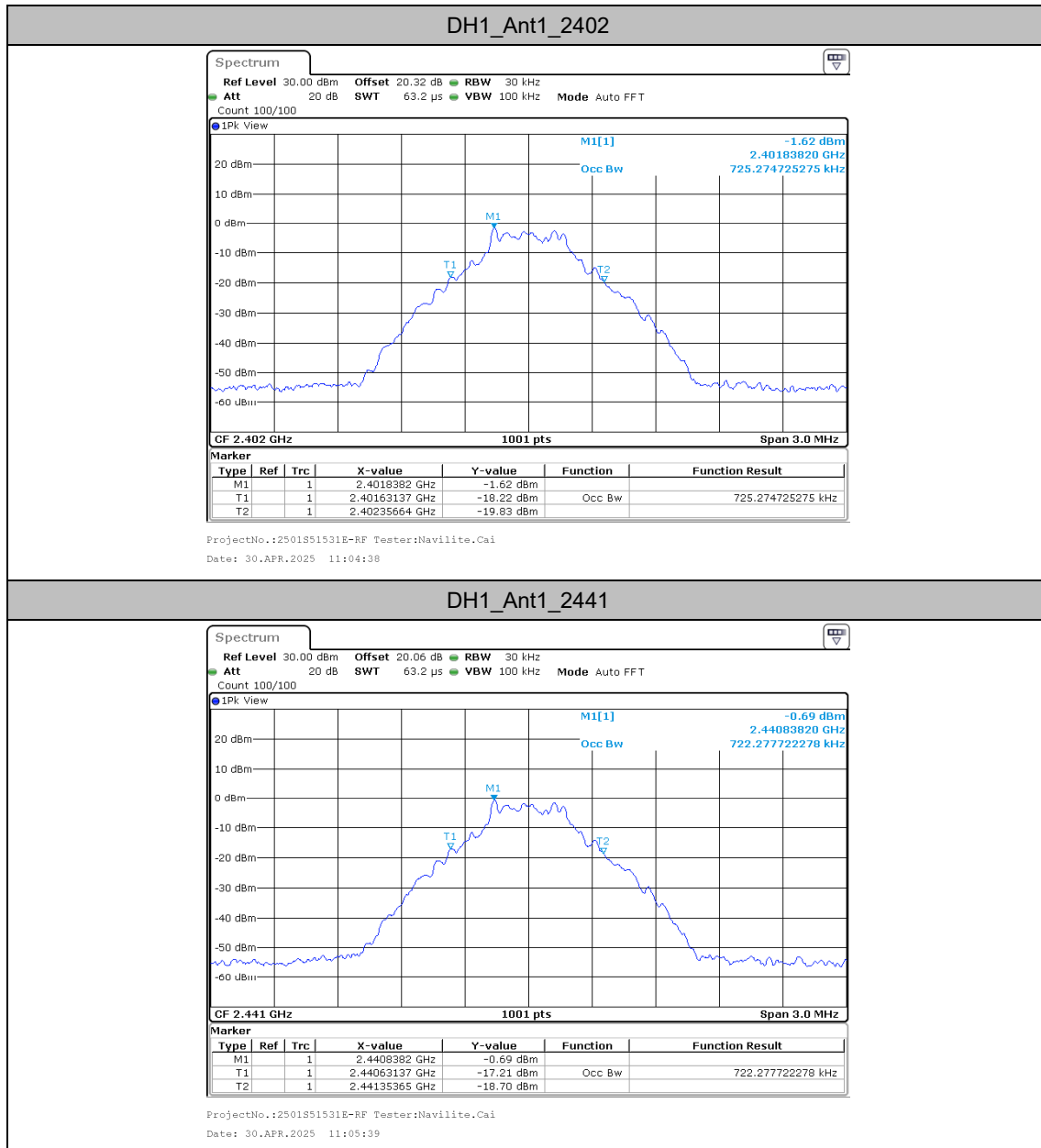


Occupied Channel Bandwidth

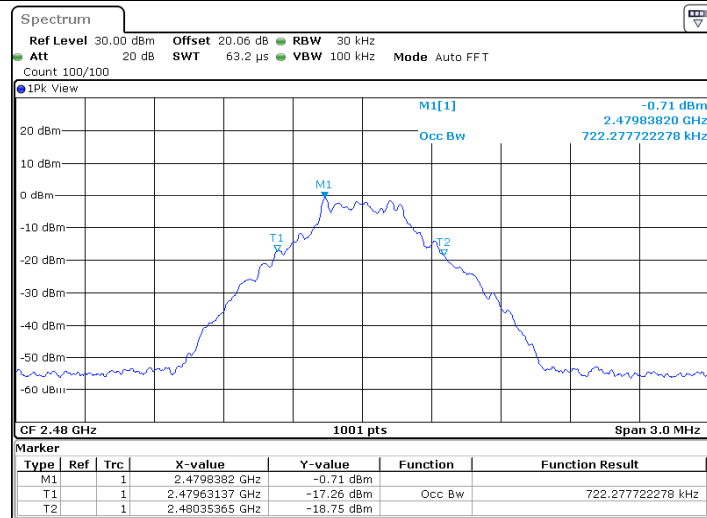
Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
DH1	Ant1	2402	0.725	2401.6314	2402.3566
		2441	0.722	2440.6314	2441.3536
		2480	0.722	2479.6314	2480.3536
2DH1	Ant1	2402	1.136	2401.4276	2402.5634
		2441	1.136	2440.4276	2441.5634
		2480	1.136	2479.4276	2480.5634
3DH1	Ant1	2402	1.130	2401.4426	2402.5724
		2441	1.130	2440.4426	2441.5724
		2480	1.127	2479.4426	2480.5694

Test Graphs

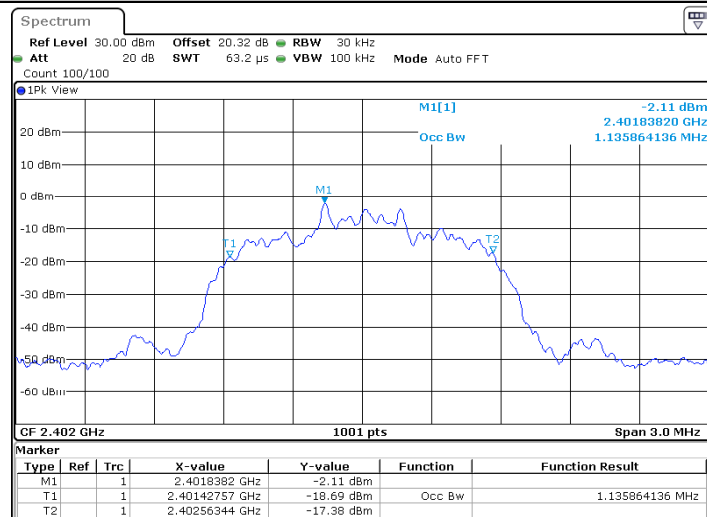


DH1_Ant1_2480



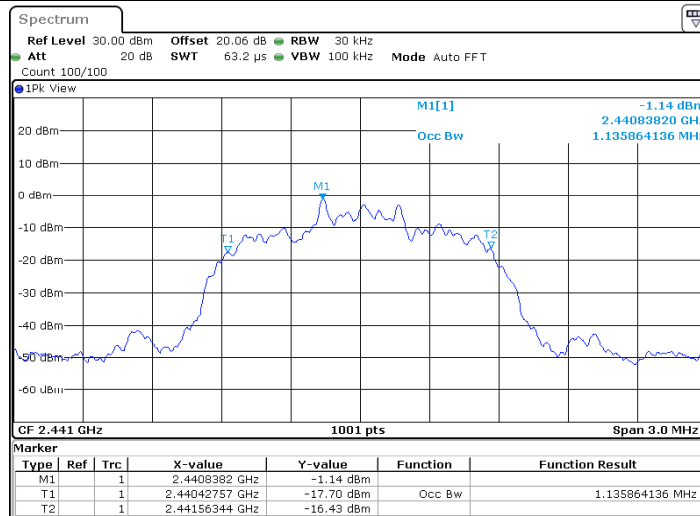
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Date: 30.APR.2025 11:06:29

2DH1_Ant1_2402



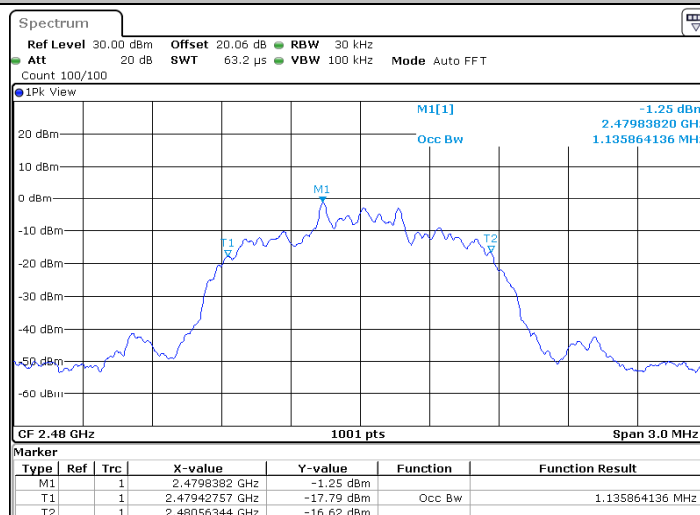
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Date: 30.APR.2025 11:07:57

2DH1_Ant1_2441



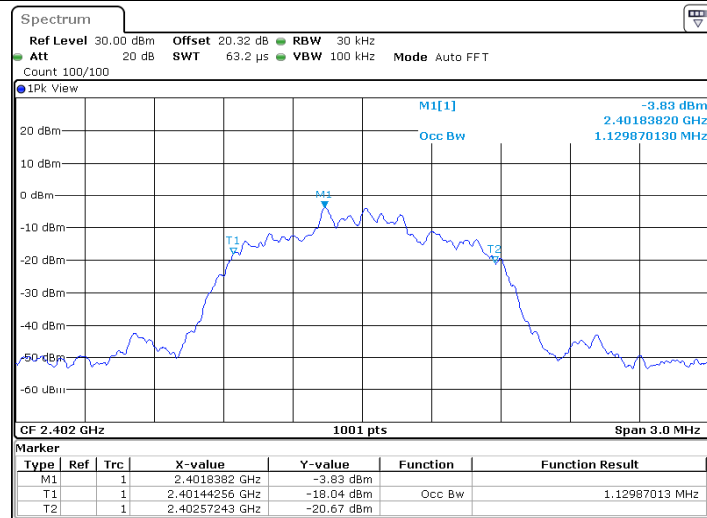
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Date: 30.APR.2025 11:10:18

2DH1_Ant1_2480



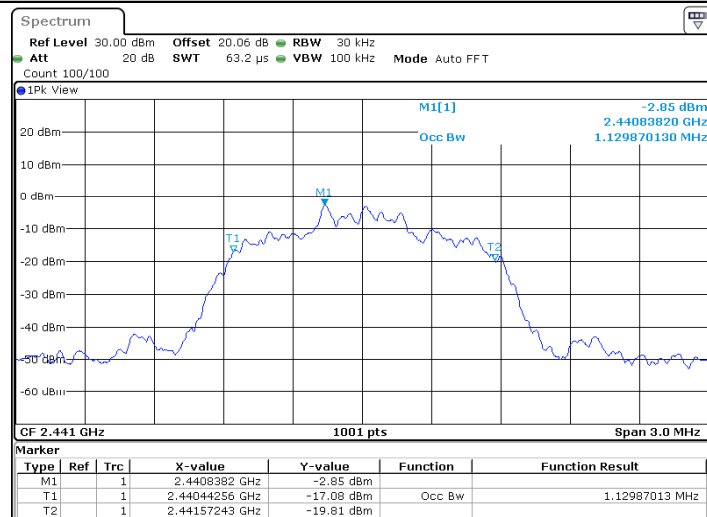
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Date: 30.APR.2025 11:11:21

3DH1_Ant1_2402

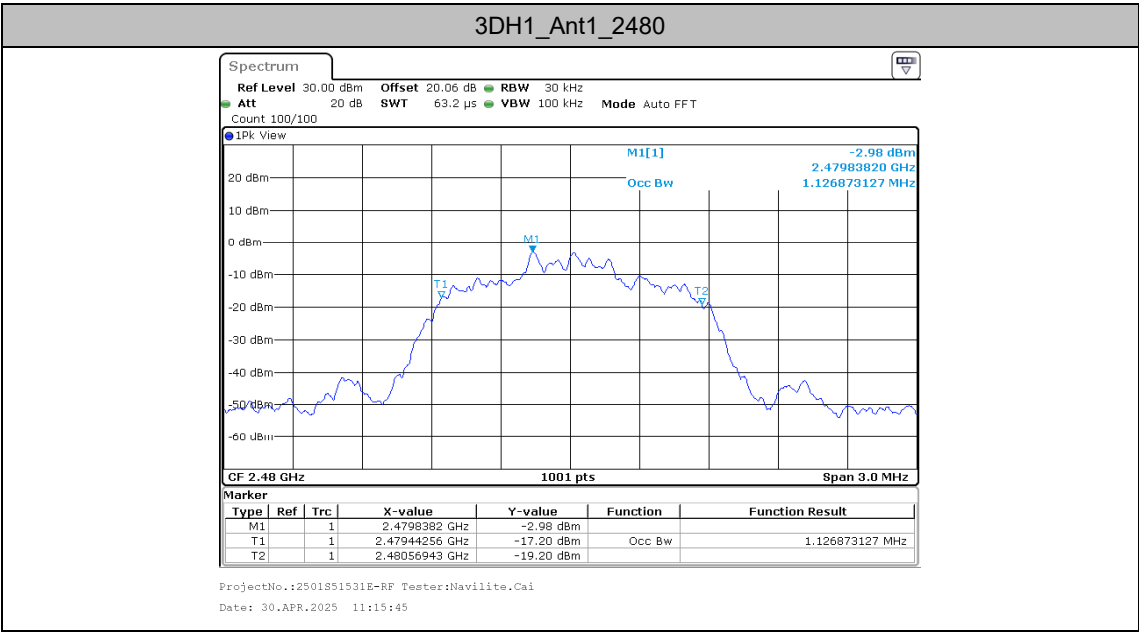


ProjectNo.:2501S51531E-RF Tester:Navilite.Cai
Date: 30.APR.2025 11:13:47

3DH1_Ant1_2441



ProjectNo.:2501S51531E-RF Tester:Navilite.Cai
Date: 30.APR.2025 11:14:55

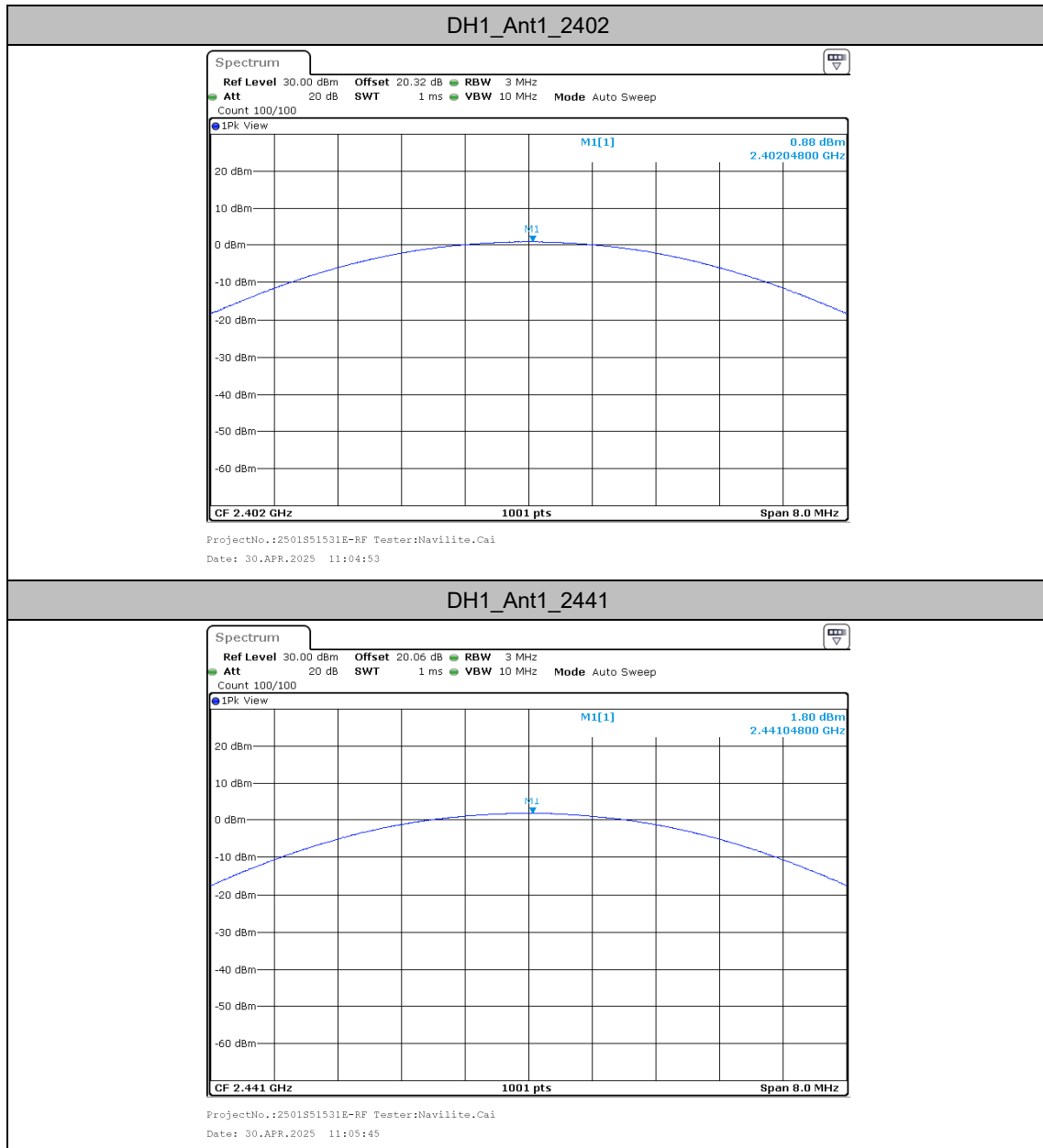


Maximum conducted output power

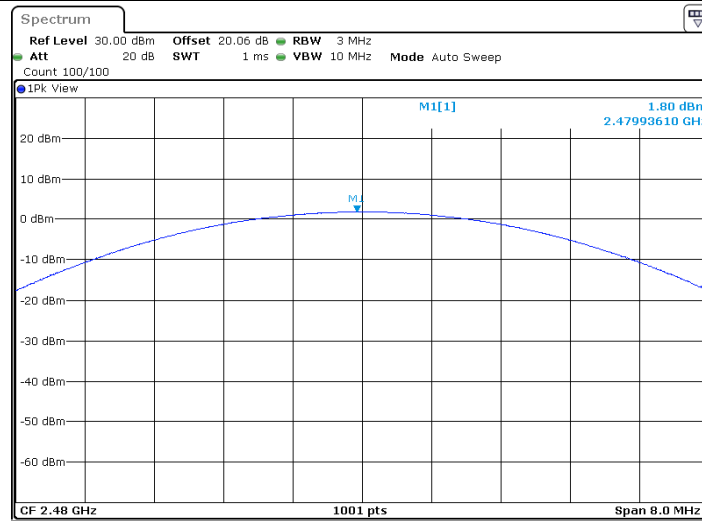
Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Conducted Limit[dBm]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
DH1	Ant1	2402	0.88	≤20.97	1.17	≤36	PASS
		2441	1.80	≤20.97	2.09	≤36	PASS
		2480	1.80	≤20.97	2.09	≤36	PASS
2DH1	Ant1	2402	0.16	≤20.97	0.45	≤36	PASS
		2441	1.15	≤20.97	1.44	≤36	PASS
		2480	1.02	≤20.97	1.31	≤36	PASS
3DH1	Ant1	2402	0.04	≤20.97	0.33	≤36	PASS
		2441	0.97	≤20.97	1.26	≤36	PASS
		2480	0.86	≤20.97	1.15	≤36	PASS

Test Graphs

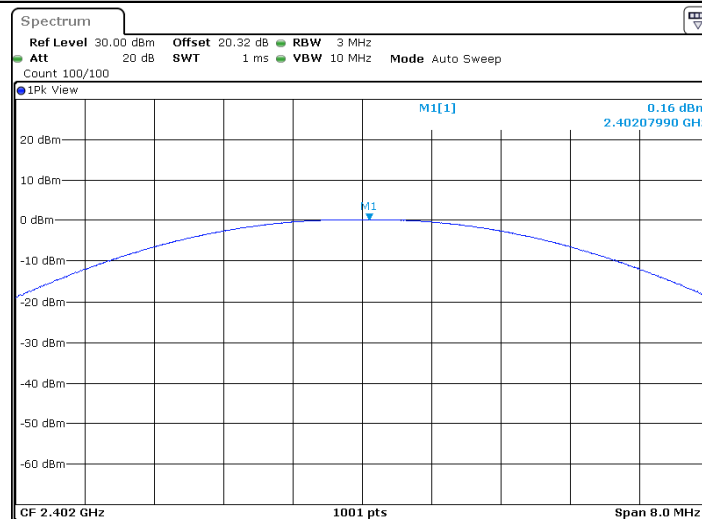


DH1_Ant1_2480



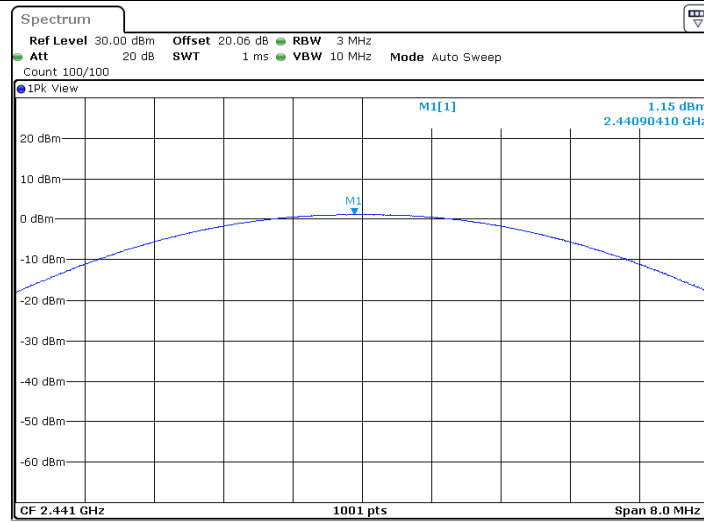
ProjectNo.:2501S51531E-RF Tester:Navillite,Cai
Date: 30.APR.2025 11:06:45

2DH1_Ant1_2402



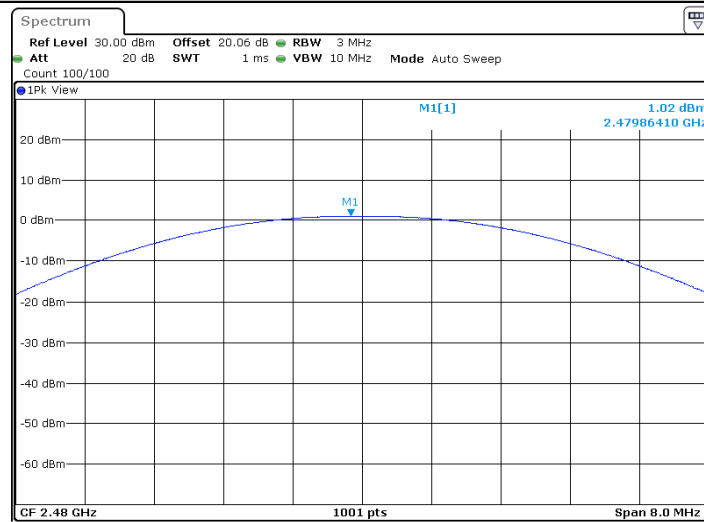
ProjectNo.:2501S51531E-RF Tester:Navillite,Cai
Date: 30.APR.2025 11:08:13

2DH1_Ant1_2441



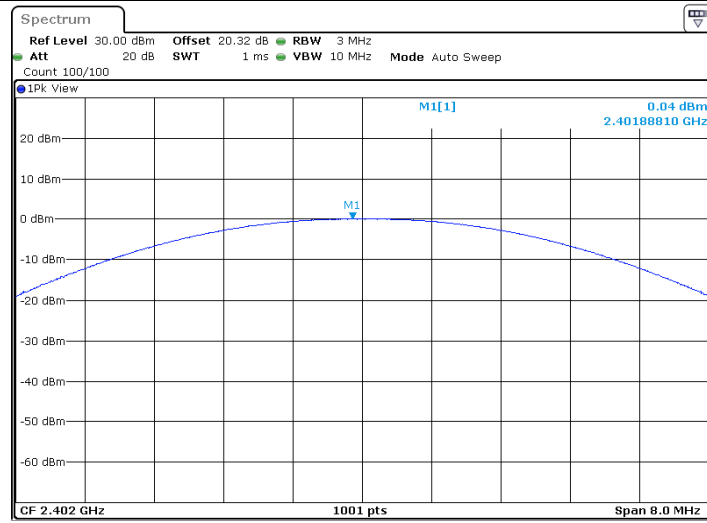
ProjectNo.:2501S51531E-RF Tester:Navillite,Cai
Date: 30.APR.2025 11:10:24

2DH1_Ant1_2480



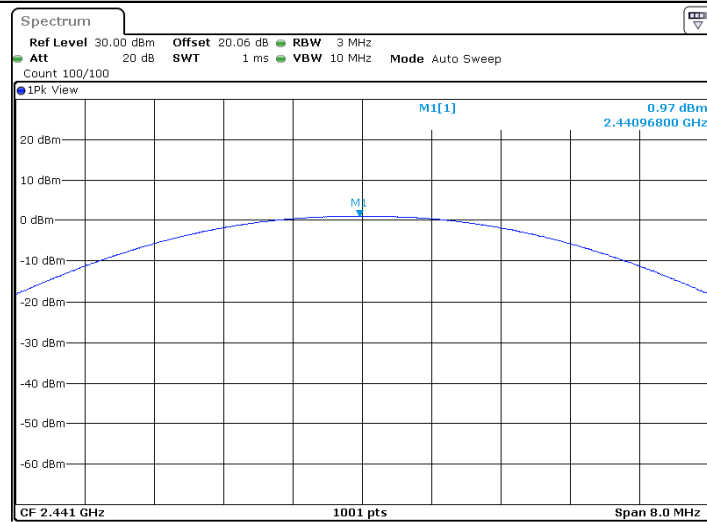
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Date: 30.APR.2025 11:11:37

3DH1_Ant1_2402

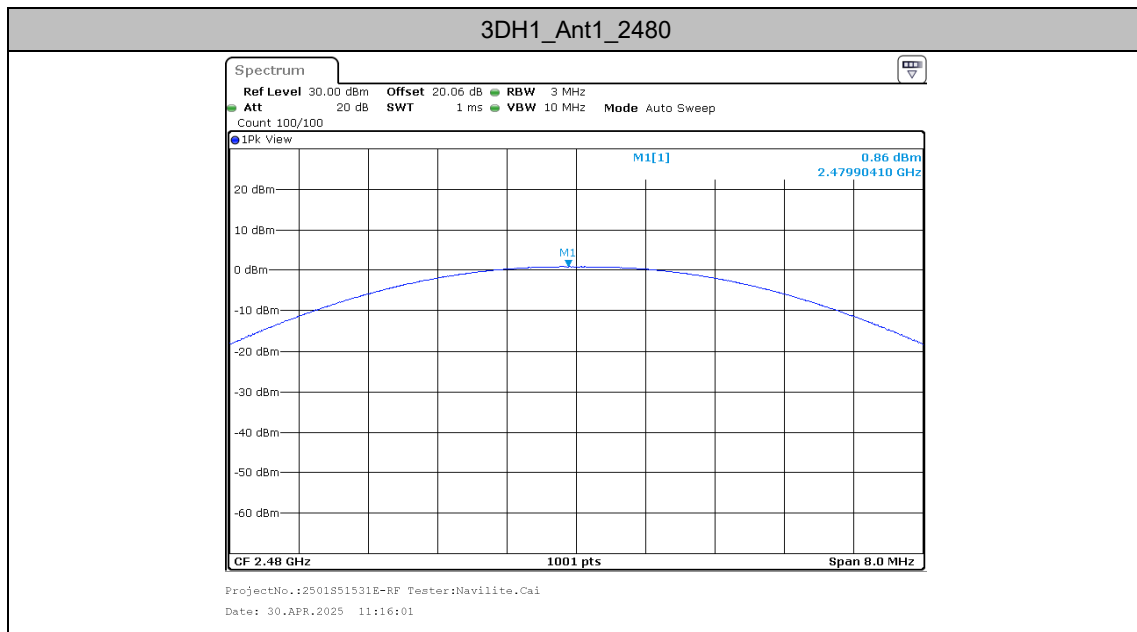


ProjectNo.:2501S51531E-RF Tester:Navillite,Cai
Date: 30.APR.2025 11:14:03

3DH1_Ant1_2441



ProjectNo.:2501S51531E-RF Tester:Navillite,Cai
Date: 30.APR.2025 11:15:01



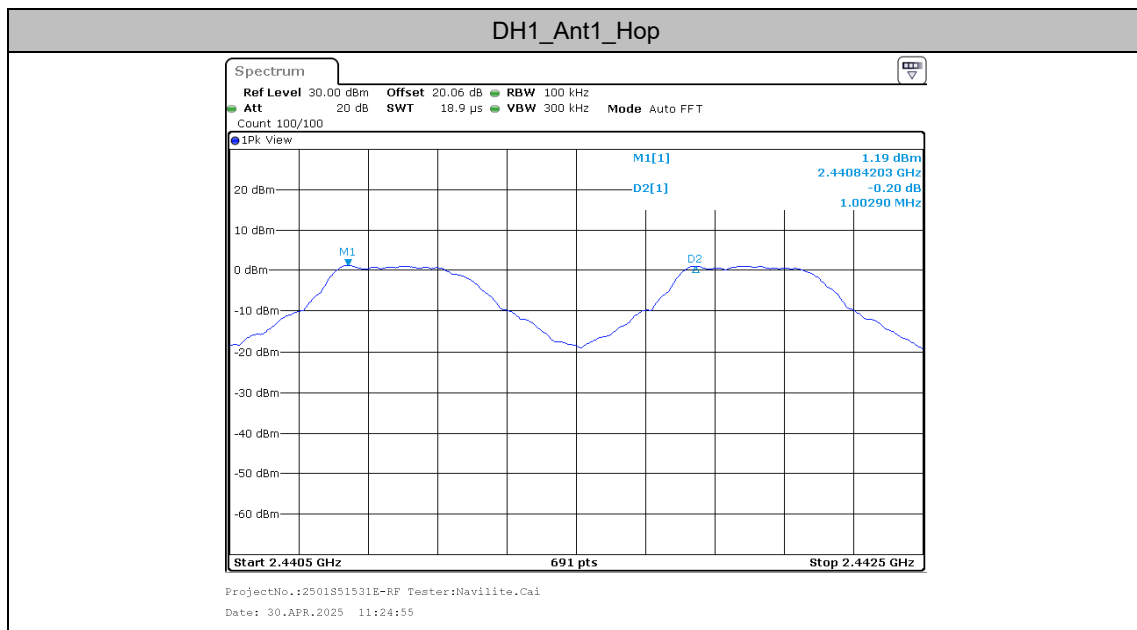
Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop	1.003	≥0.813	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

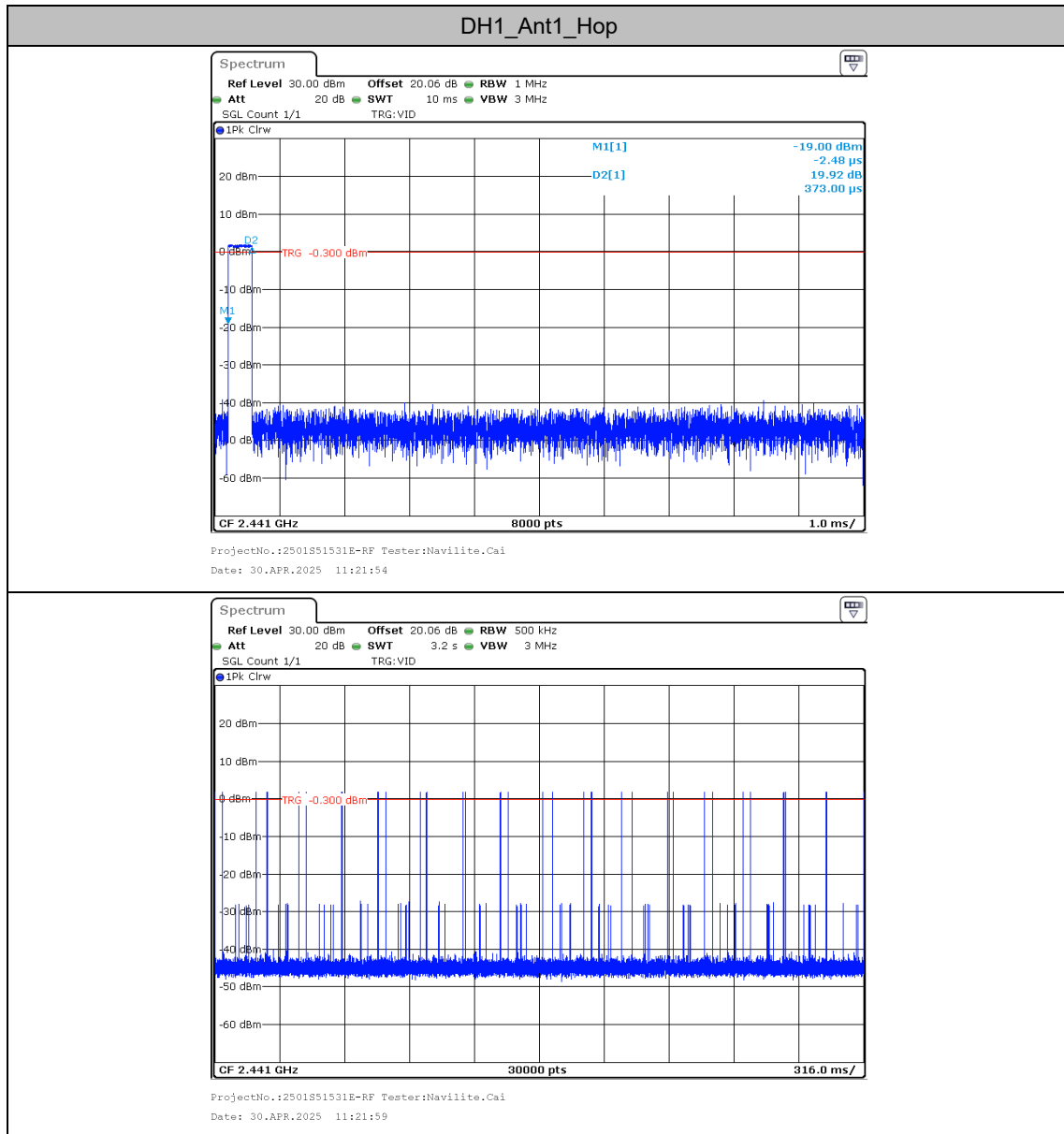
Test Mode	Antenna	Frequency [MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.373	320	0.119	≤0.4	PASS
DH3	Ant1	Hop	1.620	170	0.275	≤0.4	PASS
DH5	Ant1	Hop	2.860	120	0.343	≤0.4	PASS
2DH1	Ant1	Hop	0.379	320	0.121	≤0.4	PASS
2DH3	Ant1	Hop	1.624	170	0.276	≤0.4	PASS
2DH5	Ant1	Hop	2.864	110	0.315	≤0.4	PASS
3DH1	Ant1	Hop	0.379	330	0.125	≤0.4	PASS
3DH3	Ant1	Hop	1.624	150	0.244	≤0.4	PASS
3DH5	Ant1	Hop	2.867	110	0.315	≤0.4	PASS

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

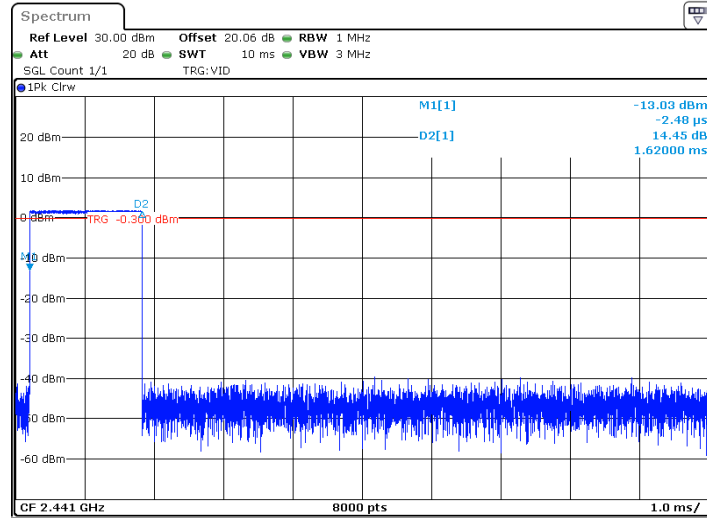
Note 2: Total hops=Hopping Number in $3.16s \times 10$

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

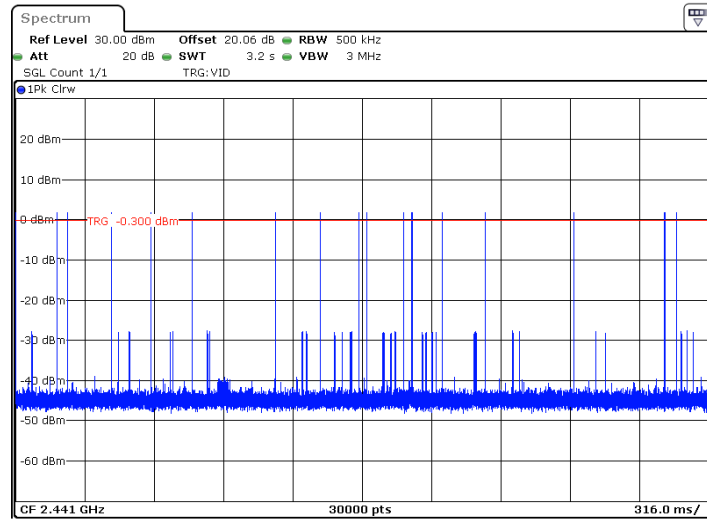
Test Graphs



DH3_Ant1_Hop

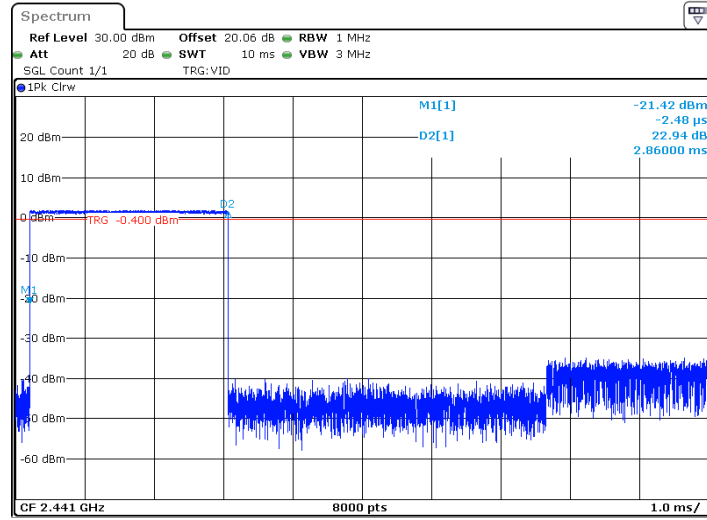


ProjectNo.:2501S51531E-RF Tester:Navillite.Cai
Date: 30.APR.2025 11:27:30

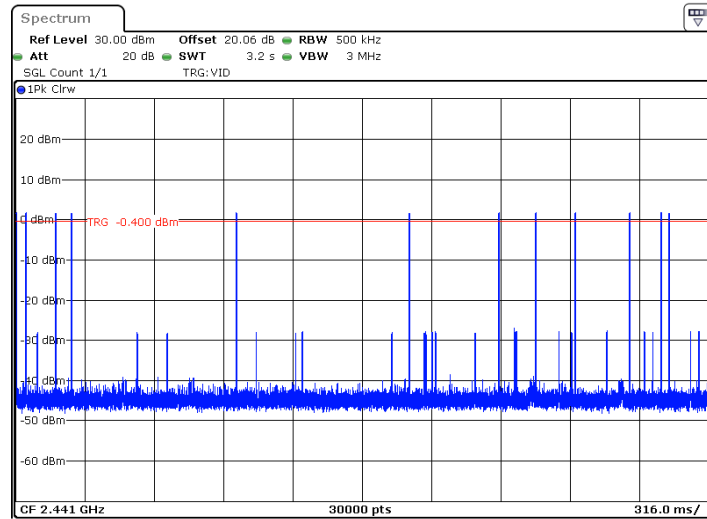


ProjectNo.:2501S51531E-RF Tester:Navillite.Cai
Date: 30.APR.2025 11:27:35

DH5_Ant1_Hop

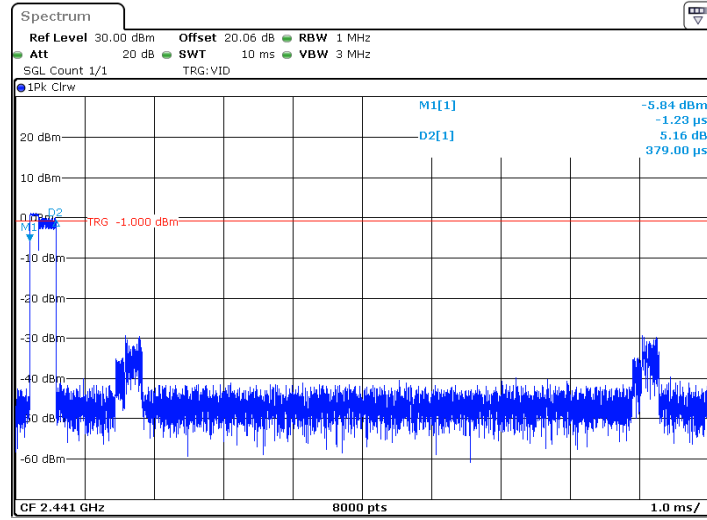


ProjectNo.:2501S51531E-RF Tester:Navillite.Cai
Date: 30.APR.2025 11:28:15

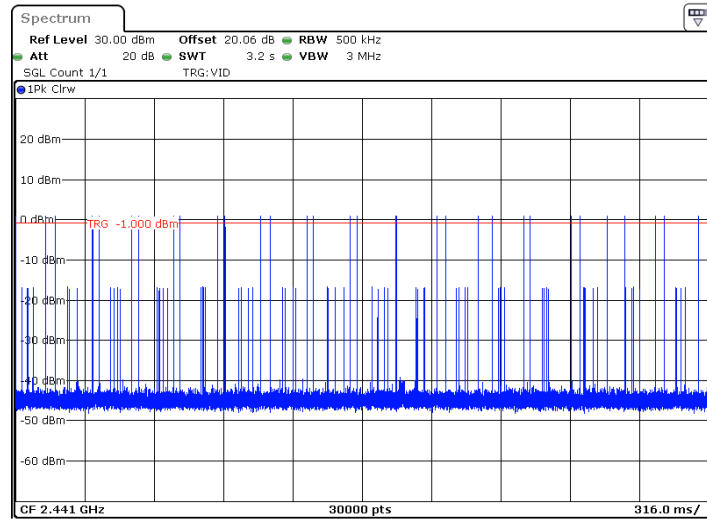


ProjectNo.:2501S51531E-RF Tester:Navillite.Cai
Date: 30.APR.2025 11:28:20

2DH1_Ant1_Hop

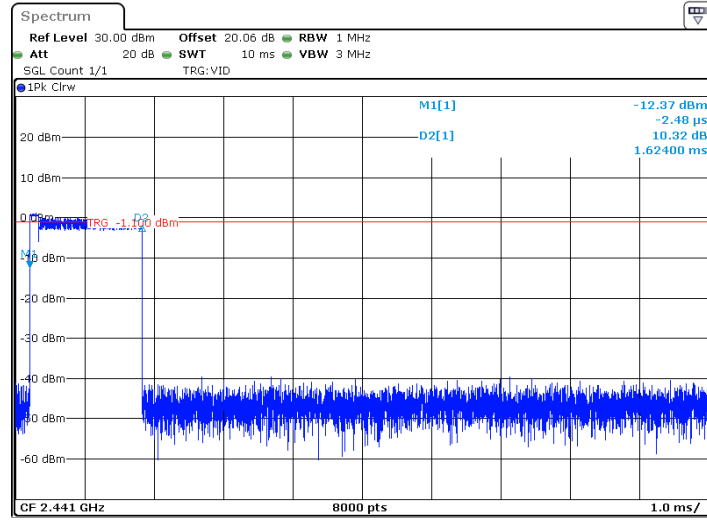


ProjectNo.:2501S51531E-RF Tester:Navillite.Cai
Date: 30.APR.2025 11:32:03

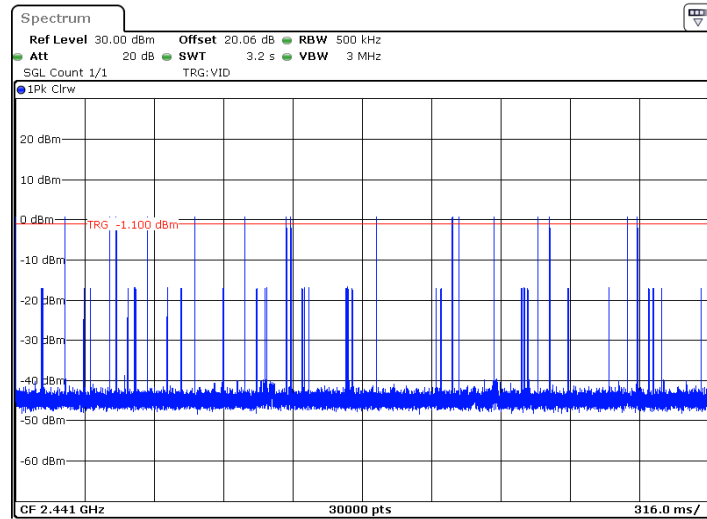


ProjectNo.:2501S51531E-RF Tester:Navillite.Cai
Date: 30.APR.2025 11:32:08

2DH3_Ant1_Hop

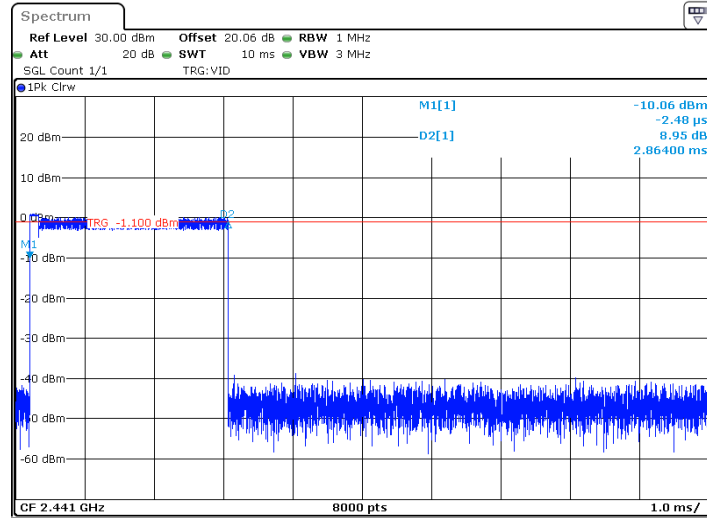


ProjectNo.:2501S51531E-RF Tester:Navillite.Cai
Date: 30.APR.2025 11:38:03

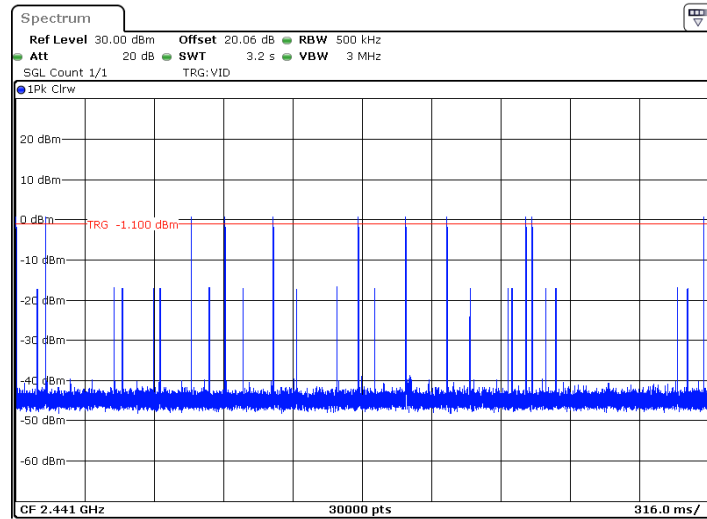


ProjectNo.:2501S51531E-RF Tester:Navillite.Cai
Date: 30.APR.2025 11:38:08

2DH5_Ant1_Hop

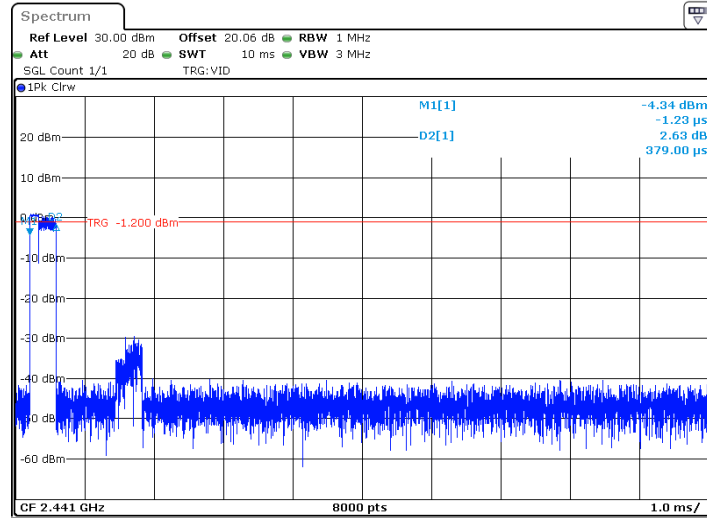


ProjectNo.:2501S51531E-RF Tester:Navillite.Cai
Date: 30.APR.2025 11:41:51

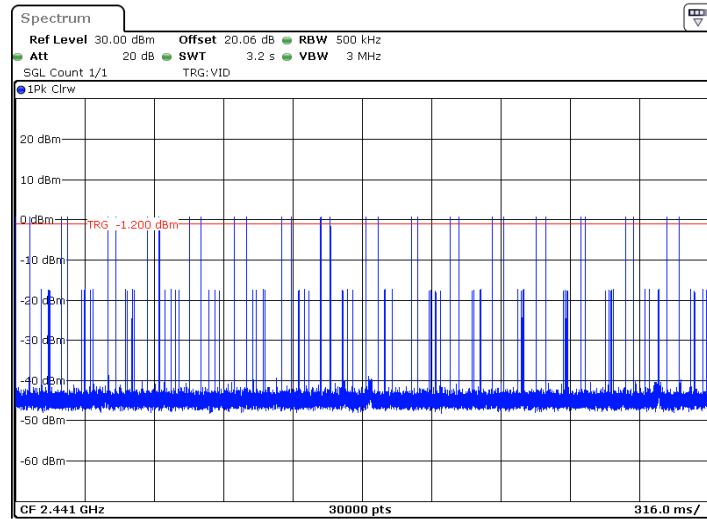


ProjectNo.:2501S51531E-RF Tester:Navillite.Cai
Date: 30.APR.2025 11:41:56

3DH1_Ant1_Hop

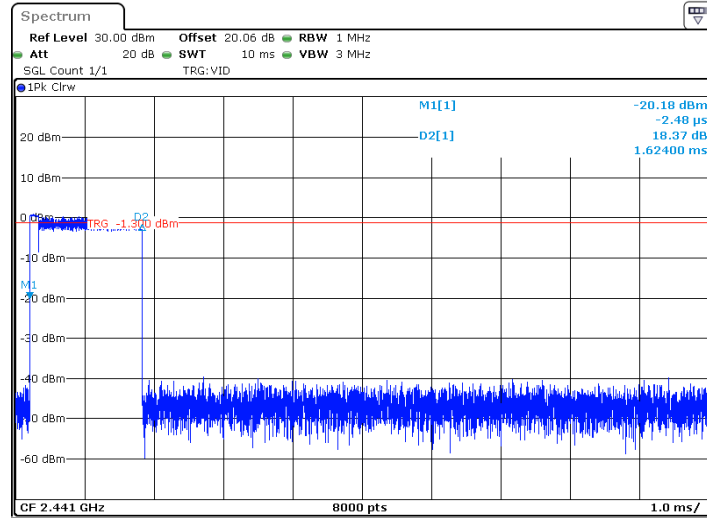


ProjectNo.:2501S51531E-RF Tester:Navillite.Cai
Date: 30.APR.2025 11:45:50

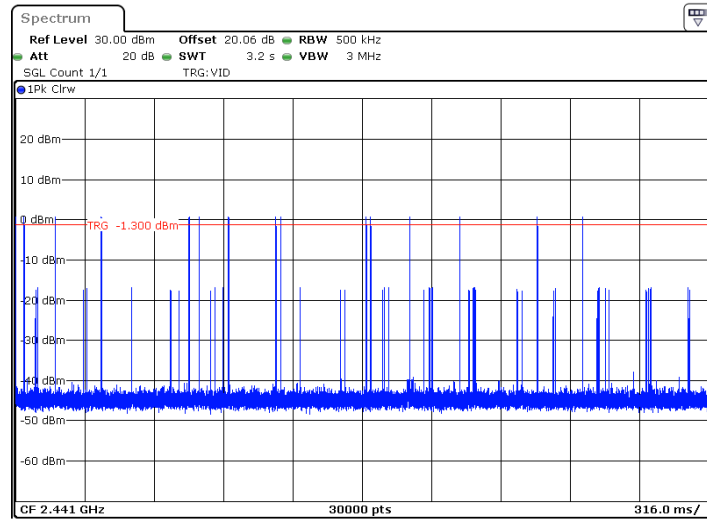


ProjectNo.:2501S51531E-RF Tester:Navillite.Cai
Date: 30.APR.2025 11:45:56

3DH3_Ant1_Hop

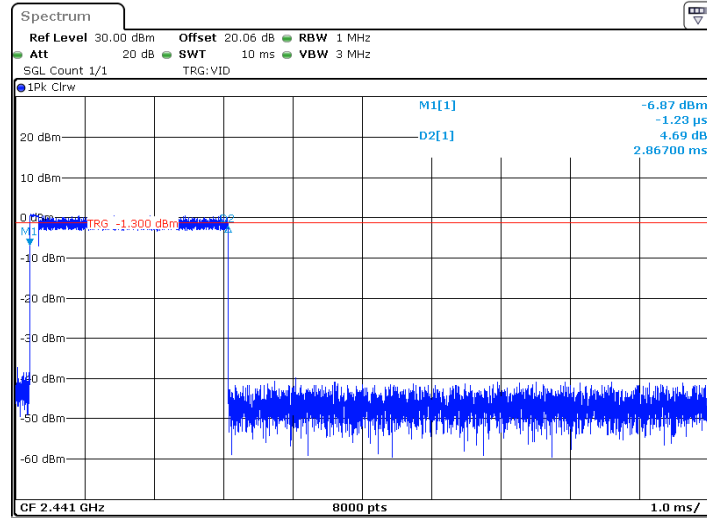


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Date: 30.APR.2025 11:48:58

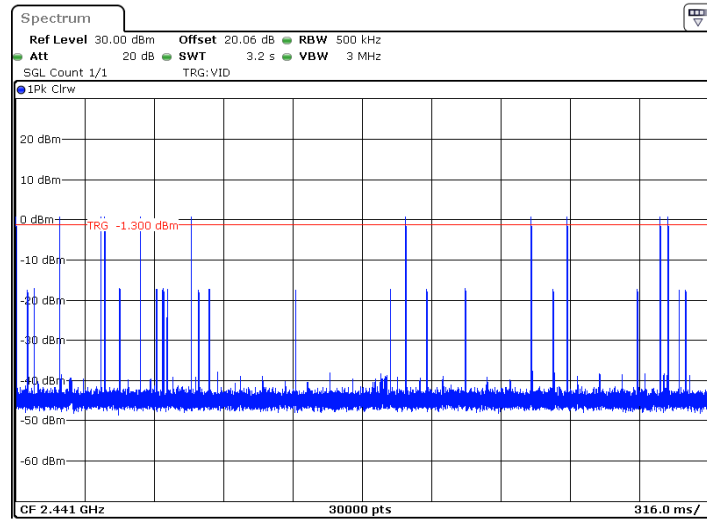


ProjectNo.:2501S51531E-RF Tester:Navillite.Cai
Date: 30.APR.2025 11:49:03

3DH5_Ant1_Hop



ProjectNo.:2501S51531E-RF Tester:Navillite.Cai
Date: 30.APR.2025 11:49:52



ProjectNo.:2501S51531E-RF Tester:Navillite.Cai
Date: 30.APR.2025 11:49:57

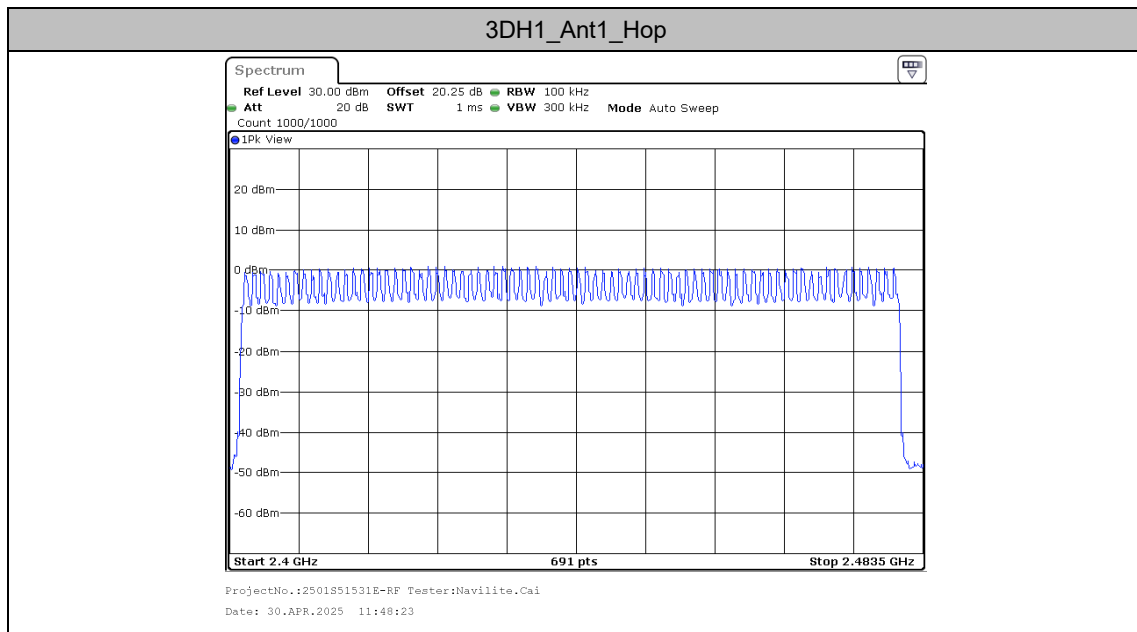
Number of hopping channels

Test Result

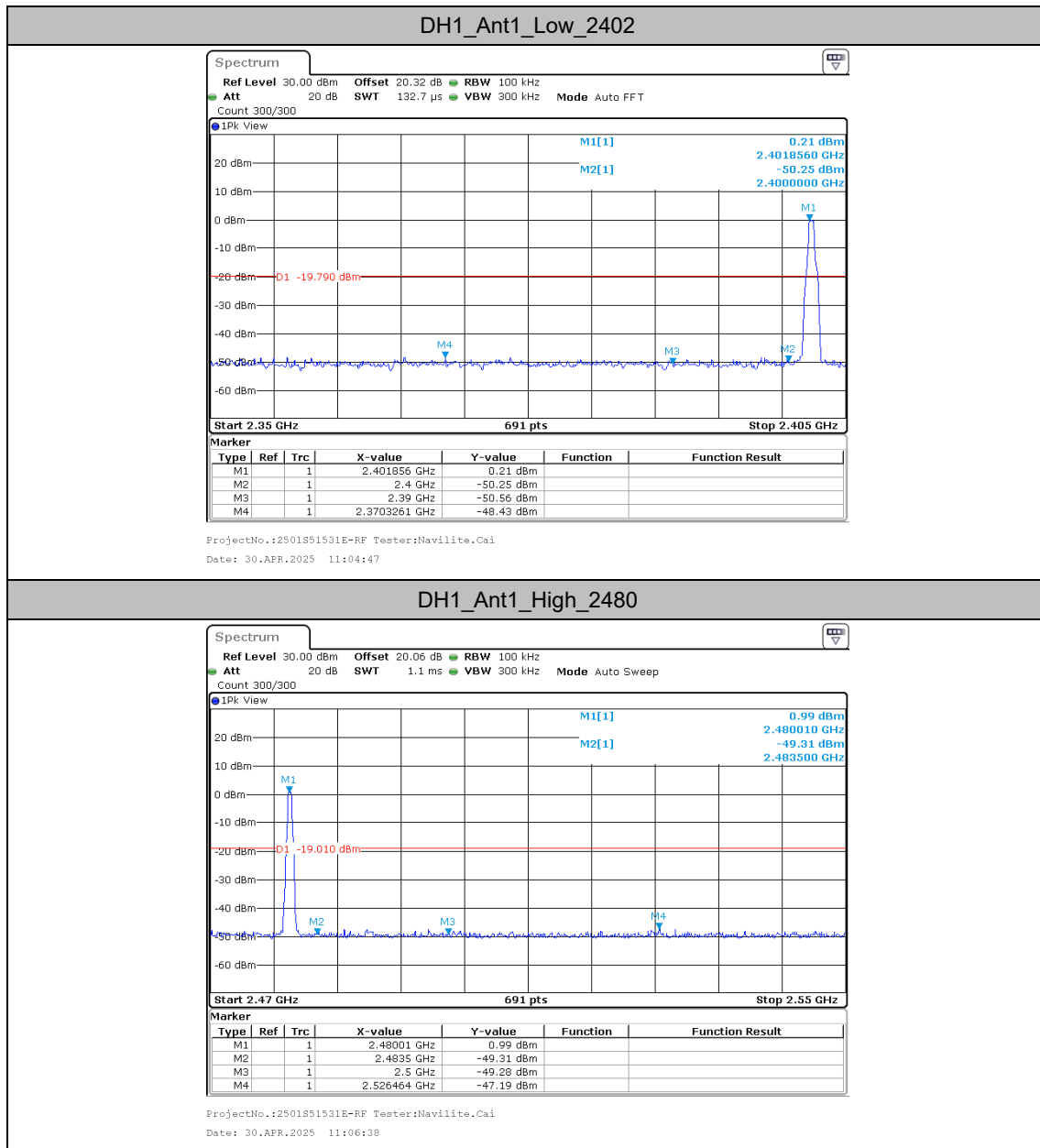
Test Mode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Hop	79	≥15	PASS
2DH1	Ant1	Hop	79	≥15	PASS
3DH1	Ant1	Hop	79	≥15	PASS

Test Graphs

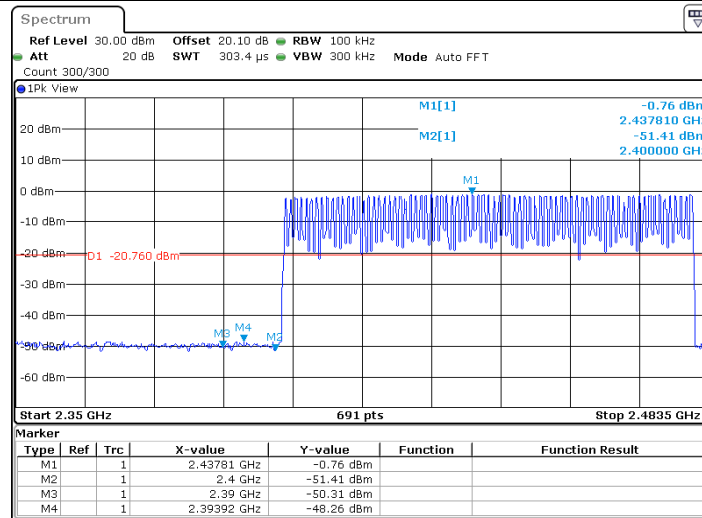




Band edge measurements

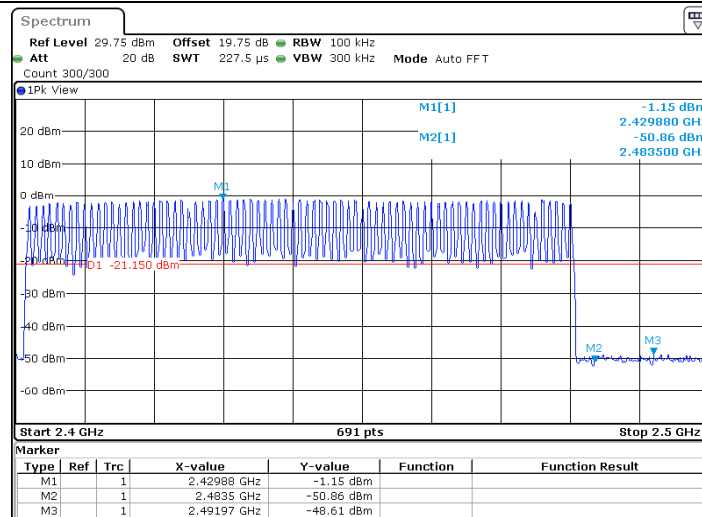


DH1_Ant1_Low_Hop_2402



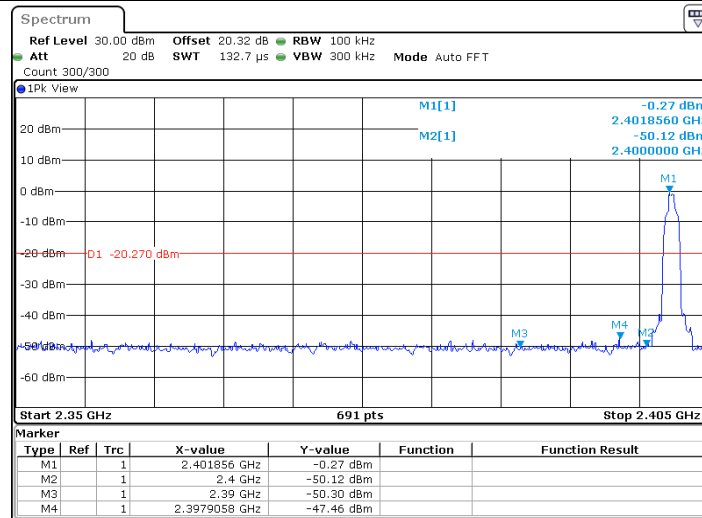
ProjectNo.:2501S51531E-RF Tester:Navilite.Cai
Date: 30.MAY.2025 10:50:02

DH1_Ant1_High_Hop_2480



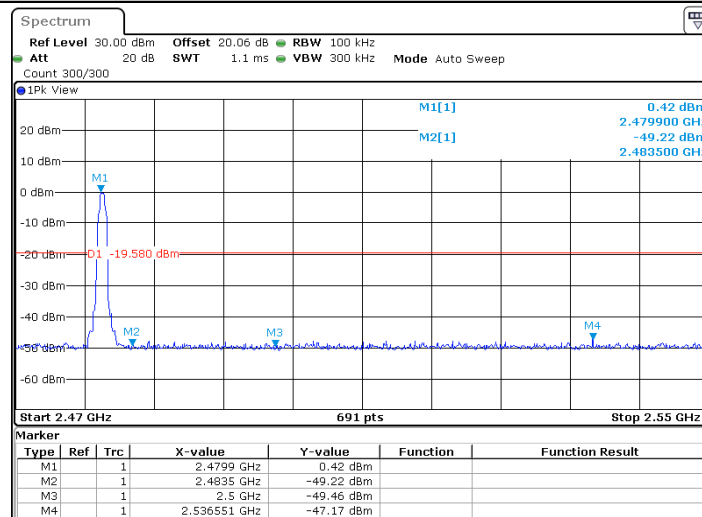
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Date: 30.MAY.2025 10:55:59

2DH1_Ant1_Low_2402



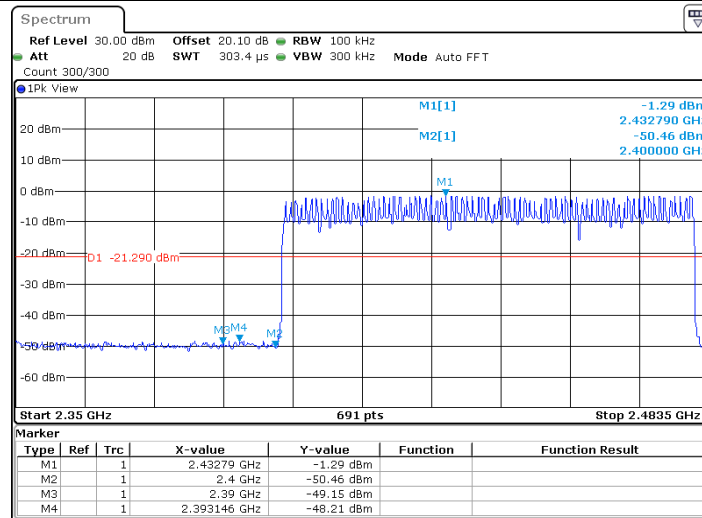
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Date: 30.APR.2025 11:08:06

2DH1_Ant1_High_2480



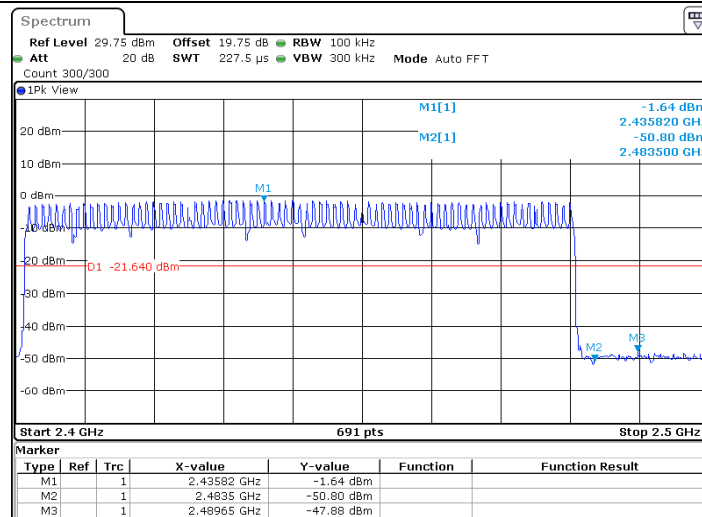
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Date: 30.APR.2025 11:11:30

2DH1_Ant1_Low_Hop_2402



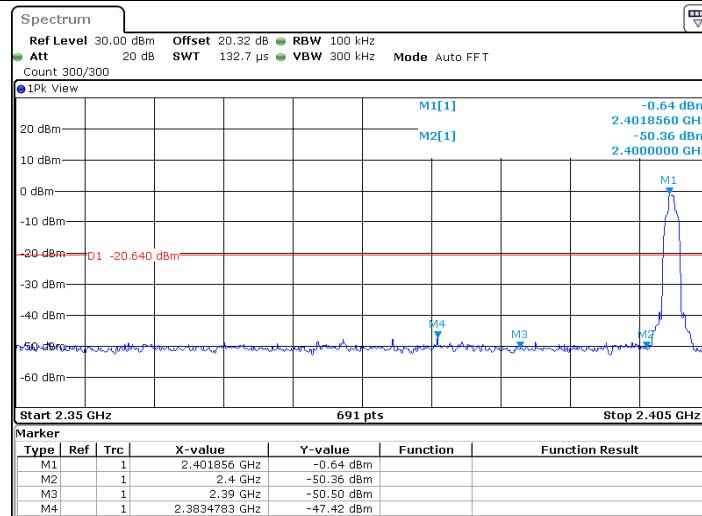
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Date: 30.MAY.2025 10:58:06

2DH1_Ant1_High_Hop_2480



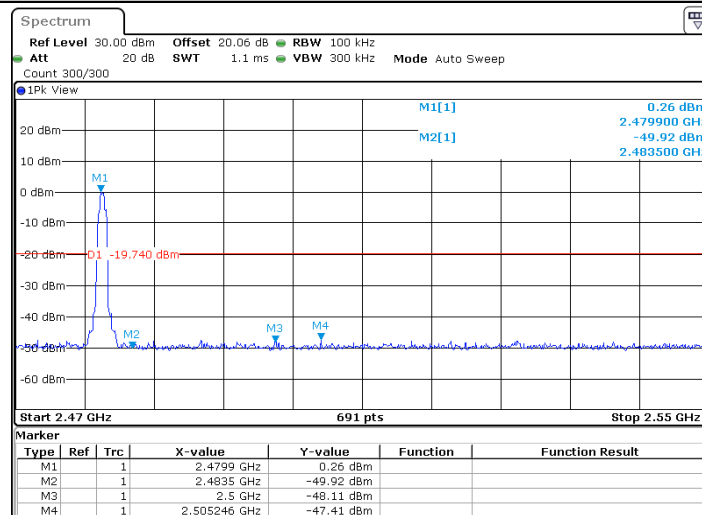
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Date: 30.MAY.2025 11:02:02

3DH1_Ant1_Low_2402



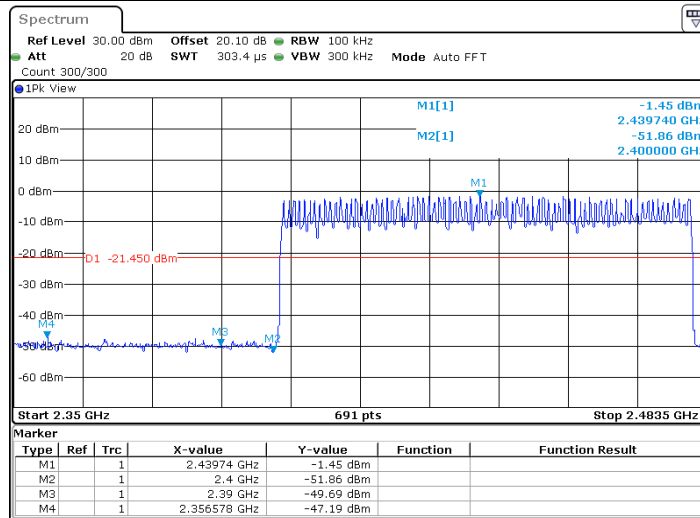
ProjectNo.:2501S51531E-RF Tester:Navilite.Cai
Date: 30.APR.2025 11:13:56

3DH1_Ant1_High_2480



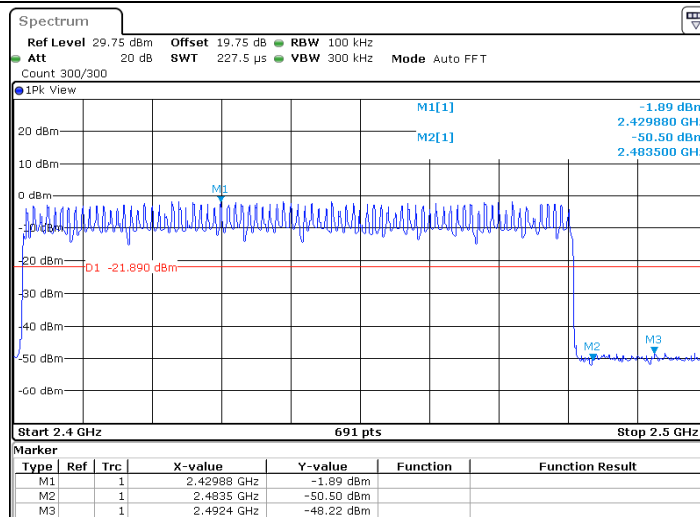
ProjectNo.:2501S51531E-RF Tester:Navilite.Cai
Date: 30.APR.2025 11:15:54

3DH1_Ant1_Low_Hop_2402



ProjectNo.:2501S51531E-RF Tester:Navilite.Cai
Date: 30.MAY.2025 11:05:17

3DH1_Ant1_High_Hop_2480



ProjectNo.:2501S51531E-RF Tester:Navilite.Cai
Date: 30.MAY.2025 11:08:46