

RF Test Data for Bluetooth (BR+EDR) (Conducted Measurements)

General Description of EUT	
Product Name:	Android TV Stick
Test Model:	NEO STICK
Sample ID:	HC-C-202408-0091-01-01
Environmental Conditions	
Temperature:	24.2℃
Relative Humidity:	48.2%RH
Test Voltage:	DC 5V
Test Engineer:	Rick Chen
Note: For a more detailed features description, please refer to the report TBR-C-202408-0091-81	

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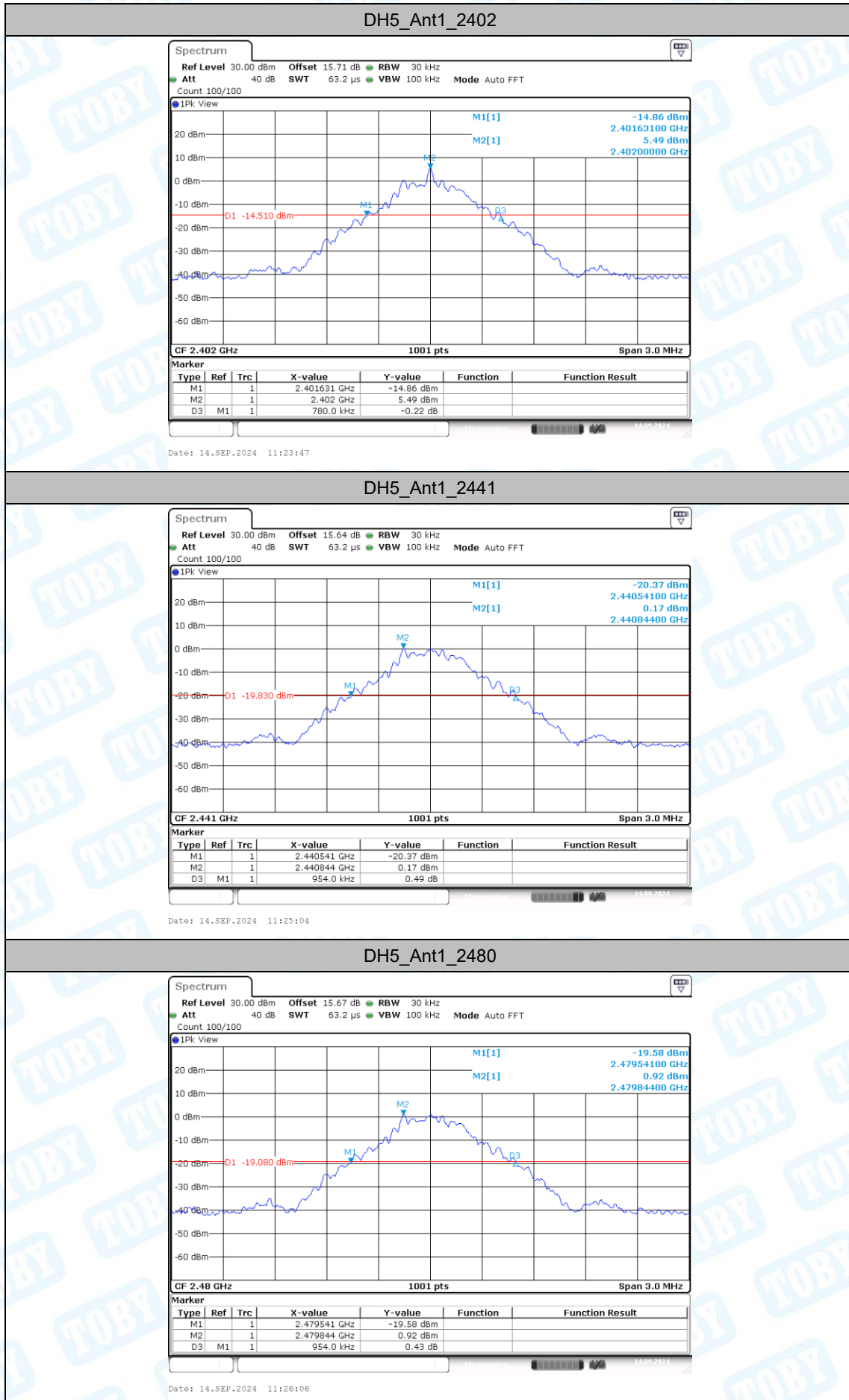
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1. 20dB Emission Bandwidth

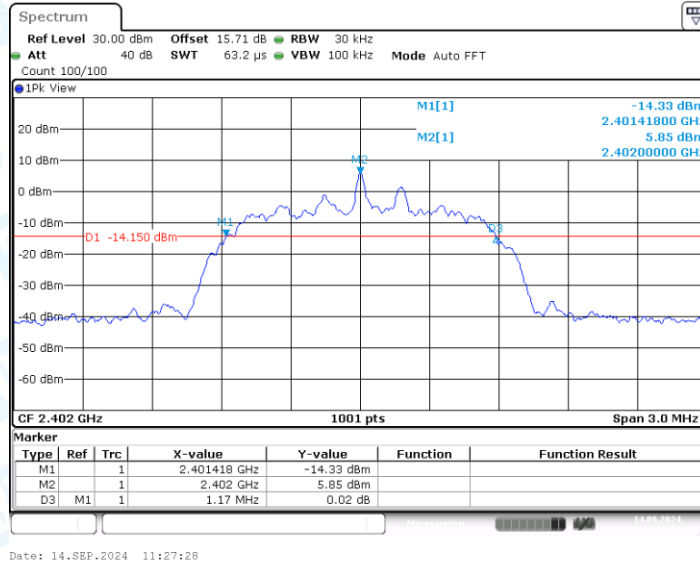
1.1. Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.78	---	---
		2441	0.95	---	---
		2480	0.95	---	---
2DH5	Ant1	2402	1.17	---	---
		2441	1.28	---	---
		2480	1.28	---	---
3DH5	Ant1	2402	1.29	---	---
		2441	1.28	---	---
		2480	1.29	---	---

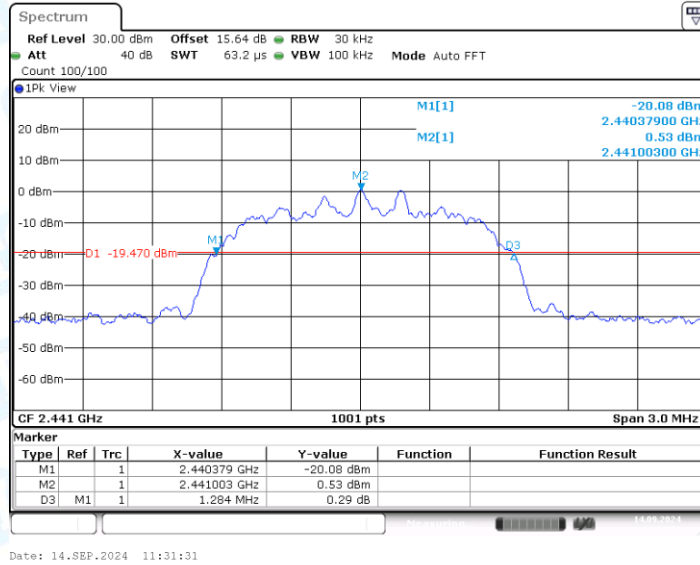
1.2. Test Graphs



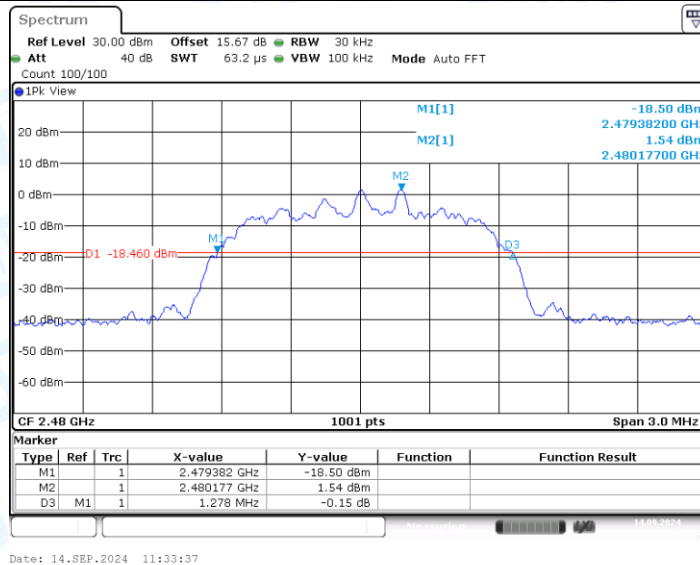
2DH5_Ant1_2402



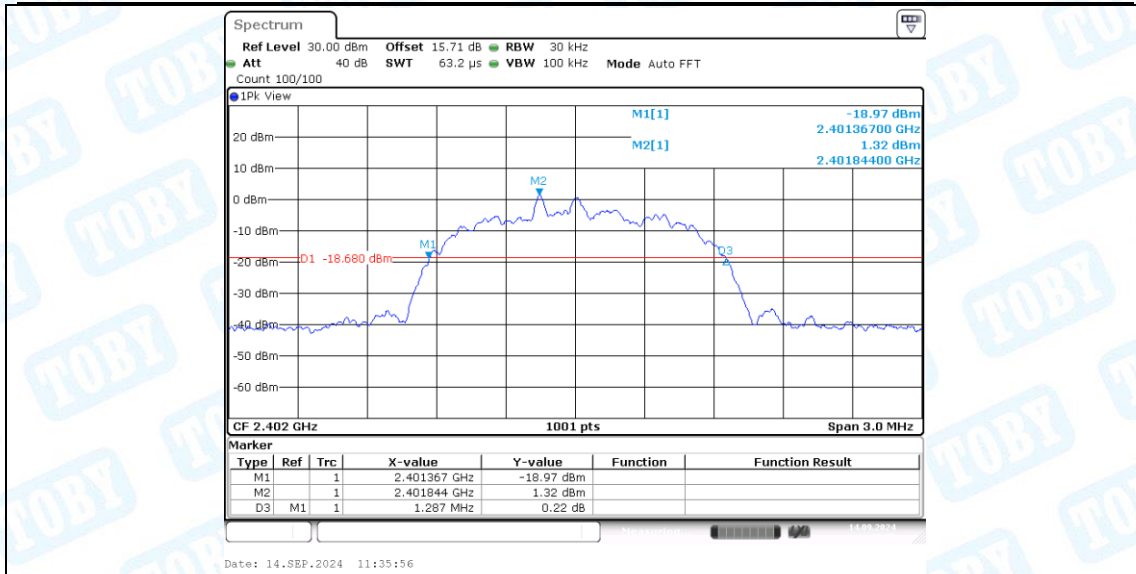
2DH5_Ant1_2441



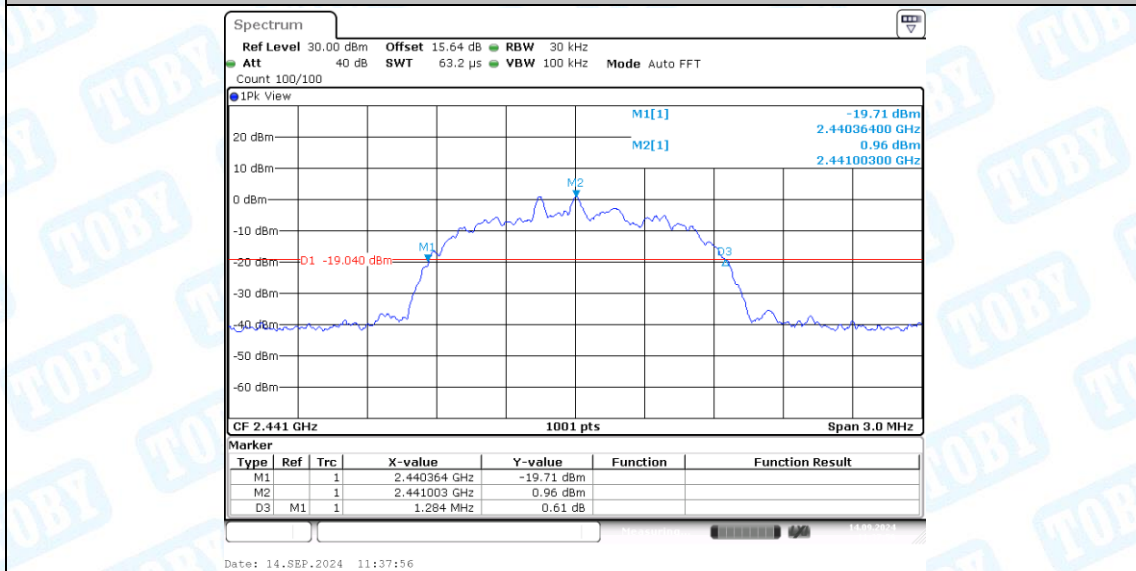
2DH5_Ant1_2480



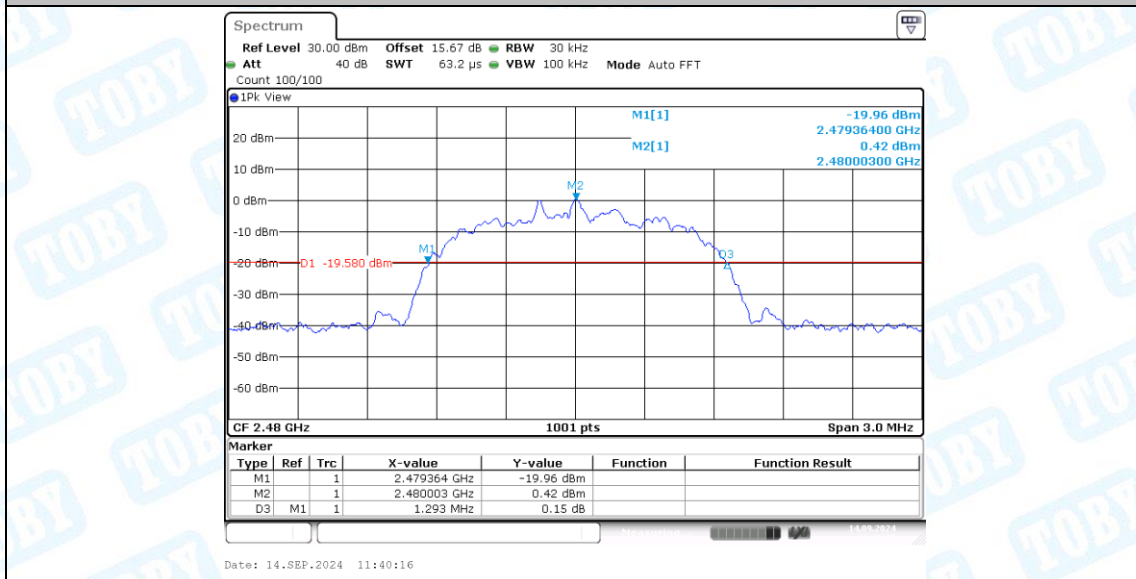
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



2. Occupied Channel Bandwidth

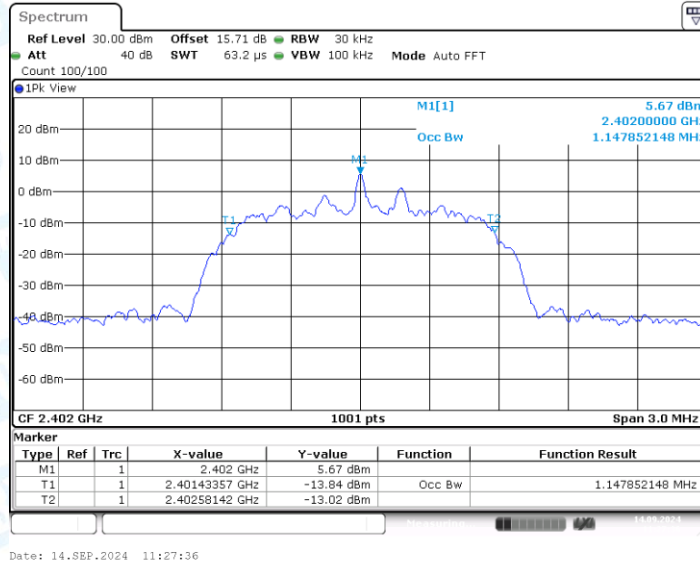
2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.881	2401.5714	2402.4525	---	---
		2441	0.881	2440.5684	2441.4496	---	---
		2480	0.881	2479.5684	2480.4496	---	---
2DH5	Ant1	2402	1.148	2401.4336	2402.5814	---	---
		2441	1.154	2440.4306	2441.5844	---	---
		2480	1.166	2479.4246	2480.5904	---	---
3DH5	Ant1	2402	1.163	2401.4306	2402.5934	---	---
		2441	1.169	2440.4276	2441.5964	---	---
		2480	1.169	2479.4276	2480.5964	---	---

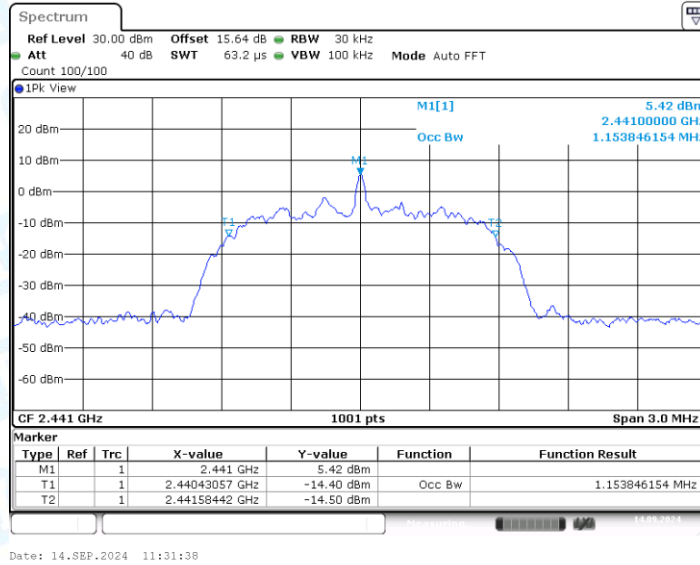
2.2. Test Graphs



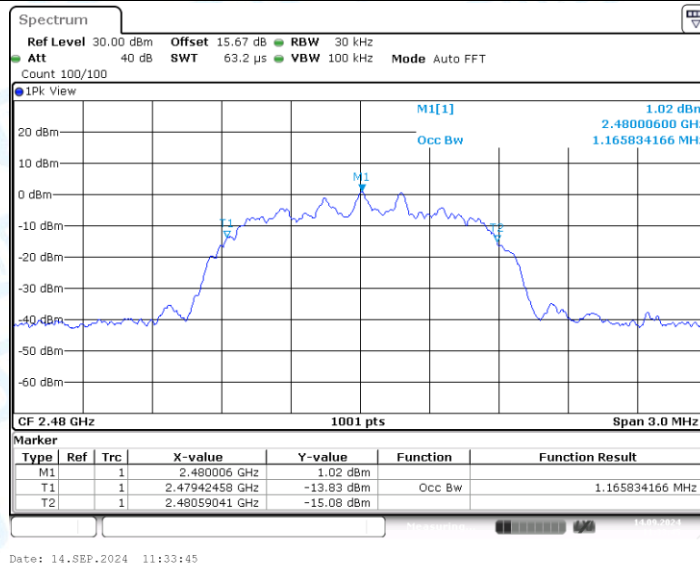
2DH5_Ant1_2402



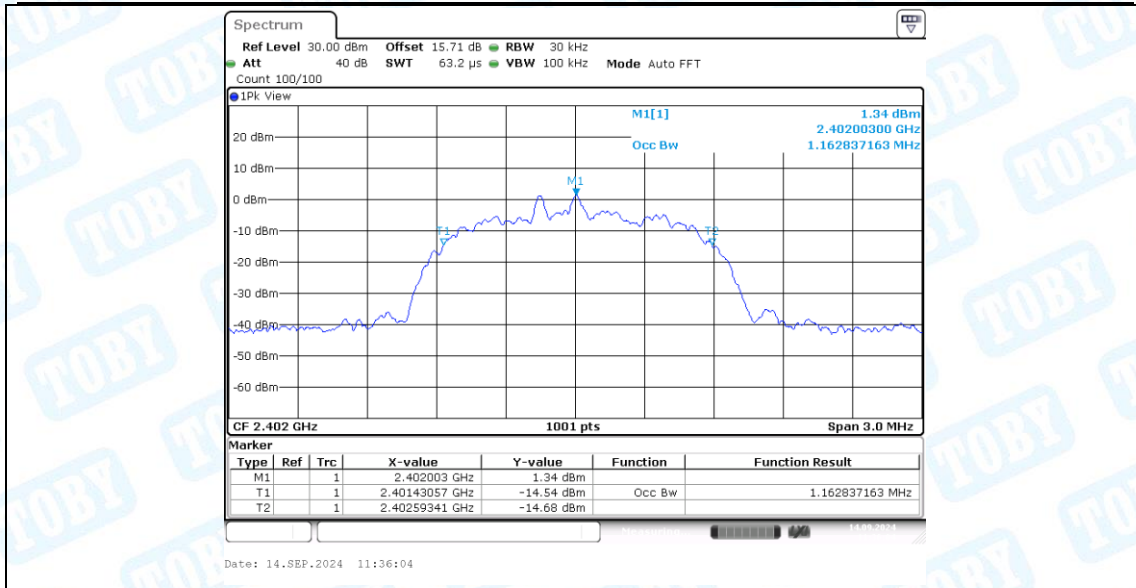
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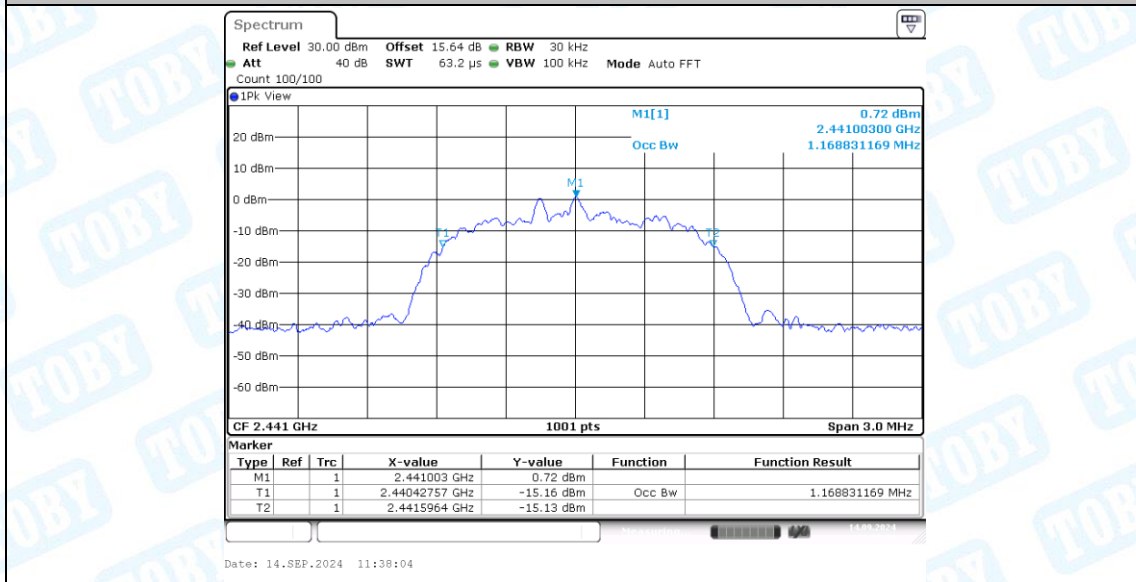
2DH5_Ant1_2480



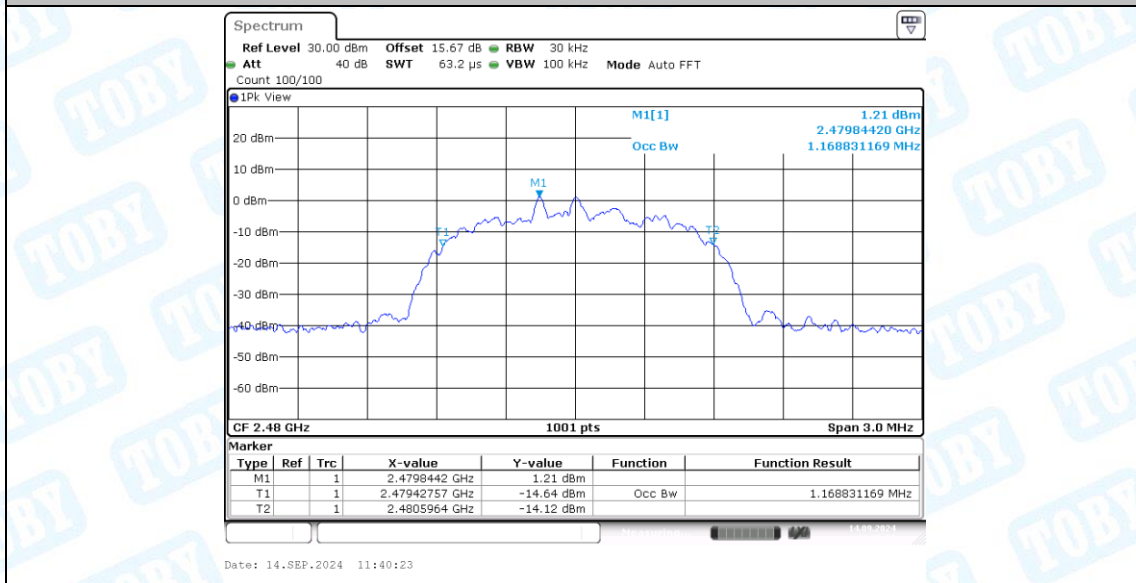
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

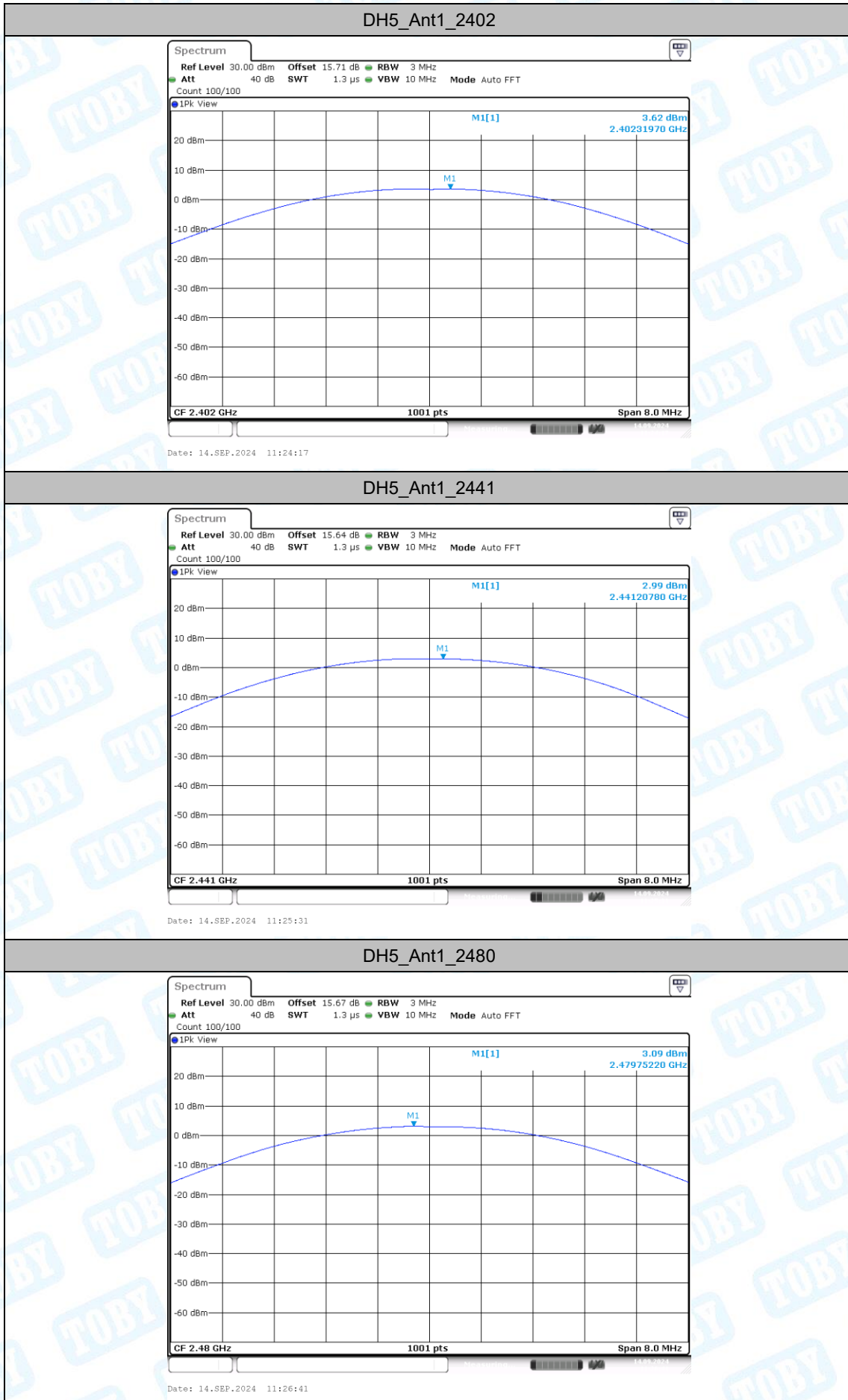


3. Maximum conducted output power

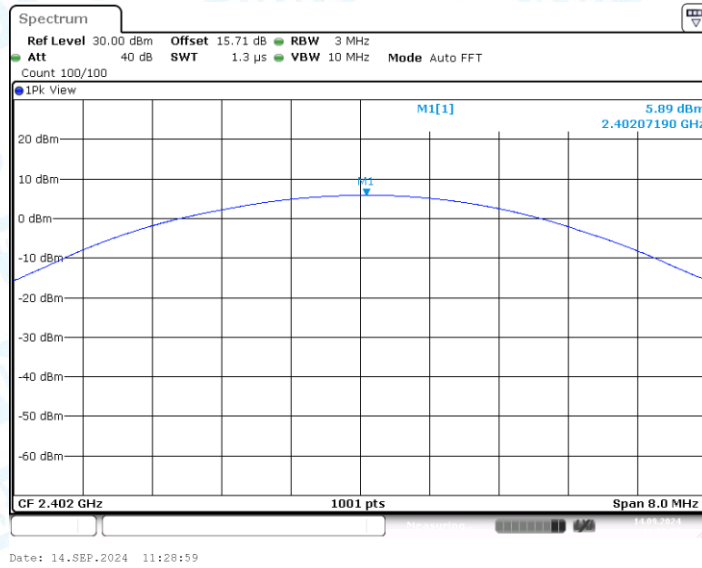
3.1. Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.62	≤20.97	PASS
		2441	2.99	≤20.97	PASS
		2480	3.09	≤20.97	PASS
2DH5	Ant1	2402	5.89	≤20.97	PASS
		2441	4.25	≤20.97	PASS
		2480	5.27	≤20.97	PASS
3DH5	Ant1	2402	5.14	≤20.97	PASS
		2441	5.10	≤20.97	PASS
		2480	5.79	≤20.97	PASS

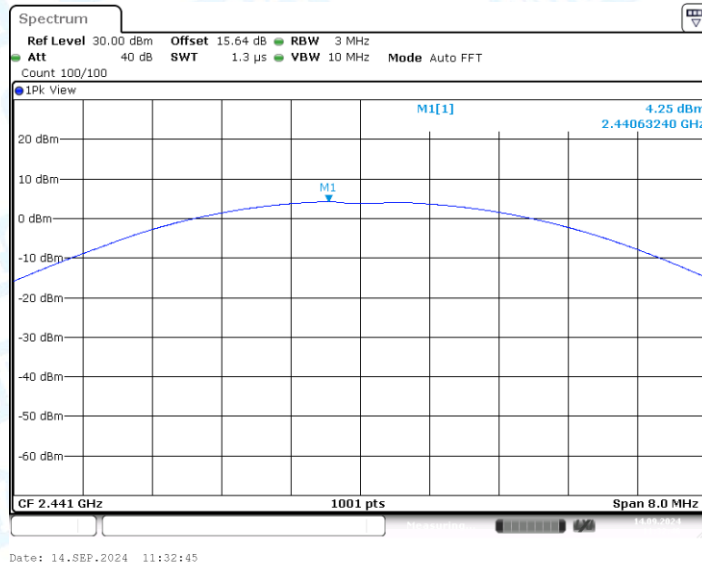
3.2.Test Graphs



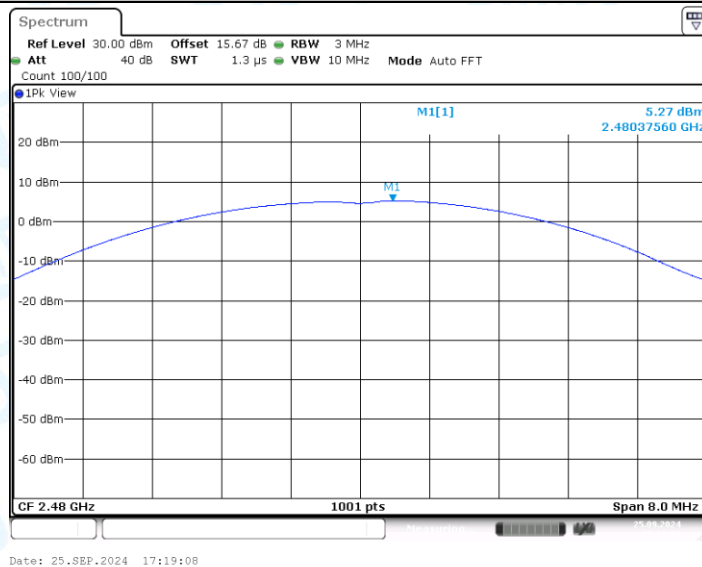
2DH5_Ant1_2402



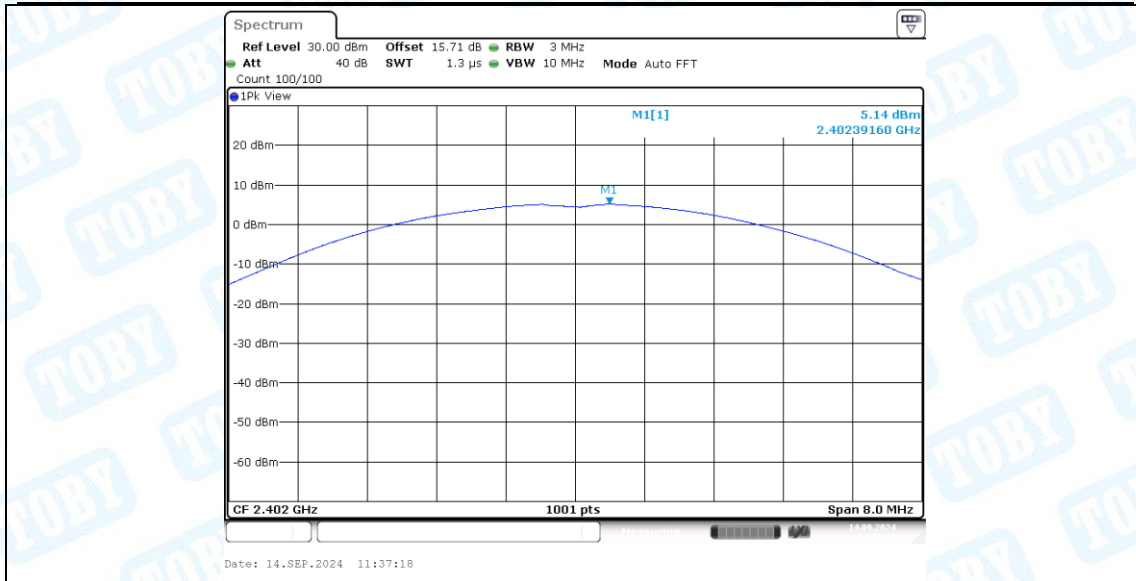
2DH5_Ant1_2441



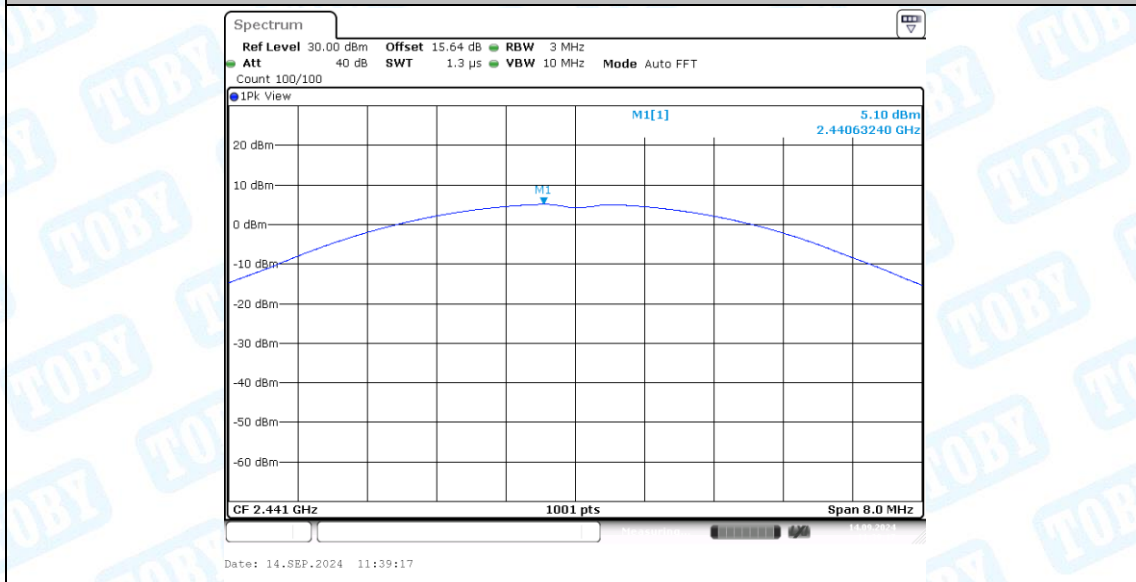
2DH5_Ant1_2480



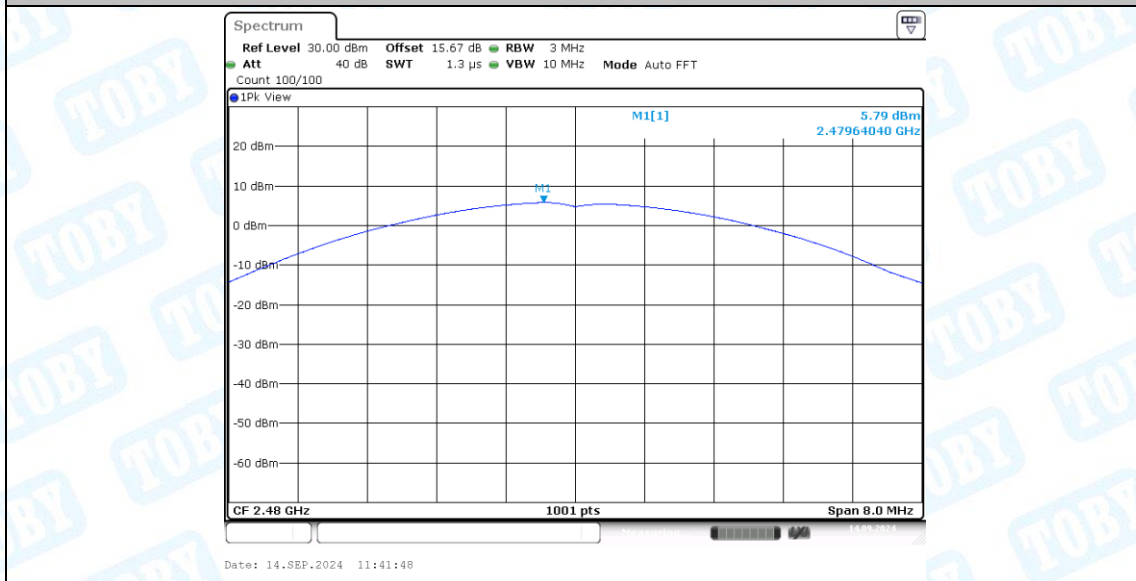
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



4. Carrier frequency separation

4.1. Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.003	≥ 0.025	PASS
2DH5	Ant1	Hop	1.035	≥ 0.025	PASS
3DH5	Ant1	Hop	0.893	≥ 0.025	PASS

4.2.Test Graphs

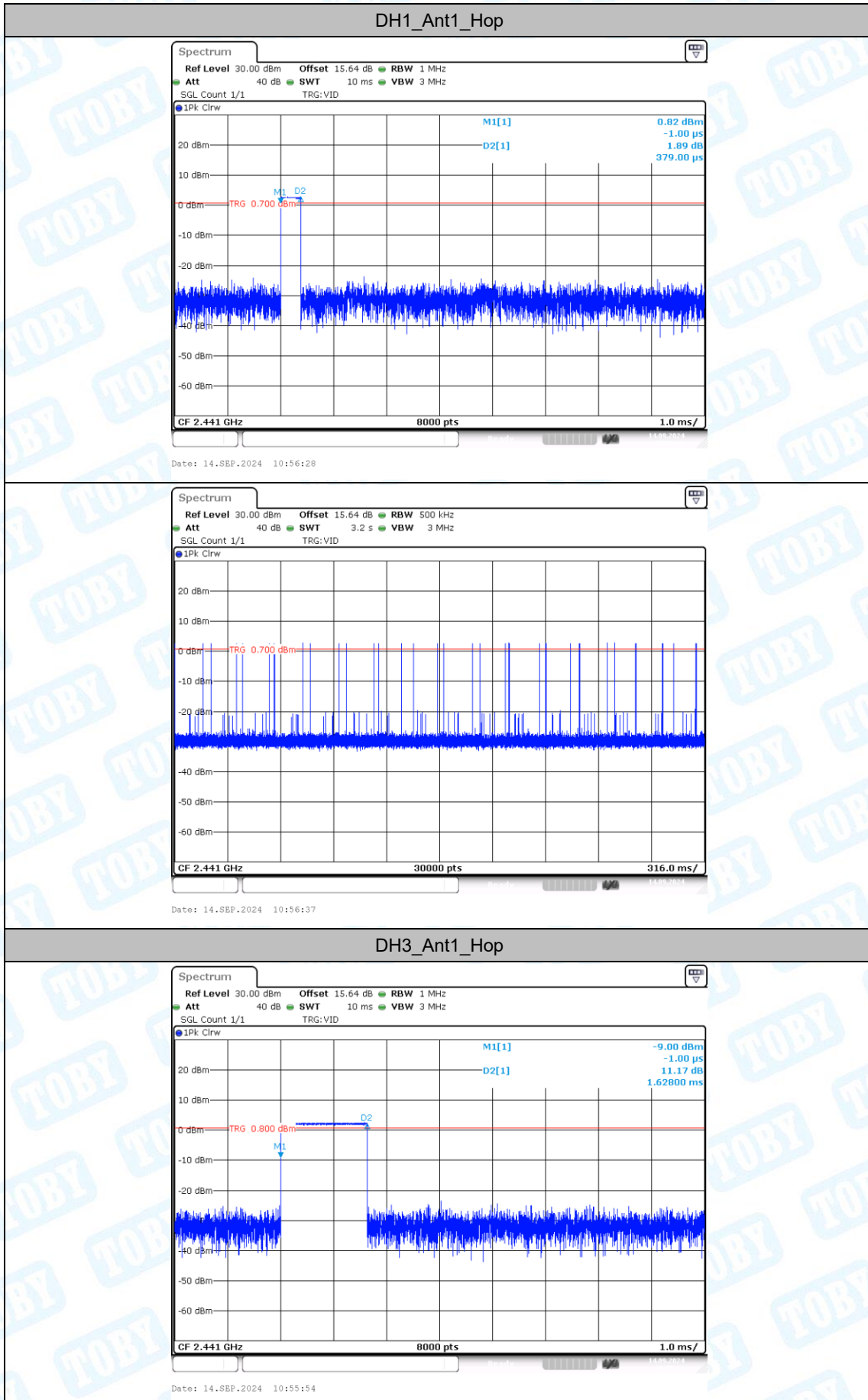


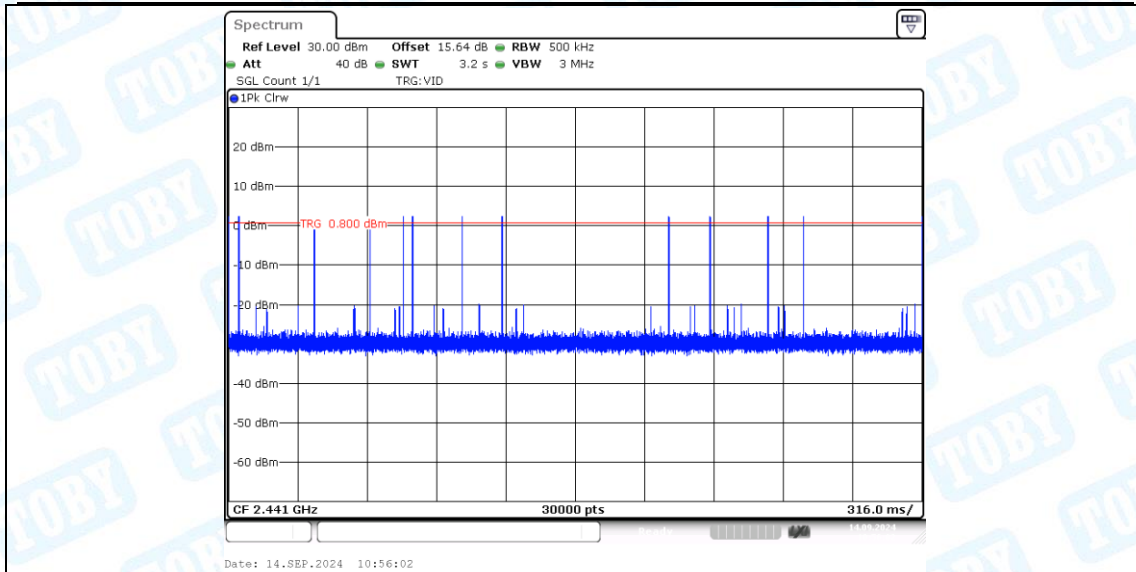
5. Time of occupancy

5.1. Test Result

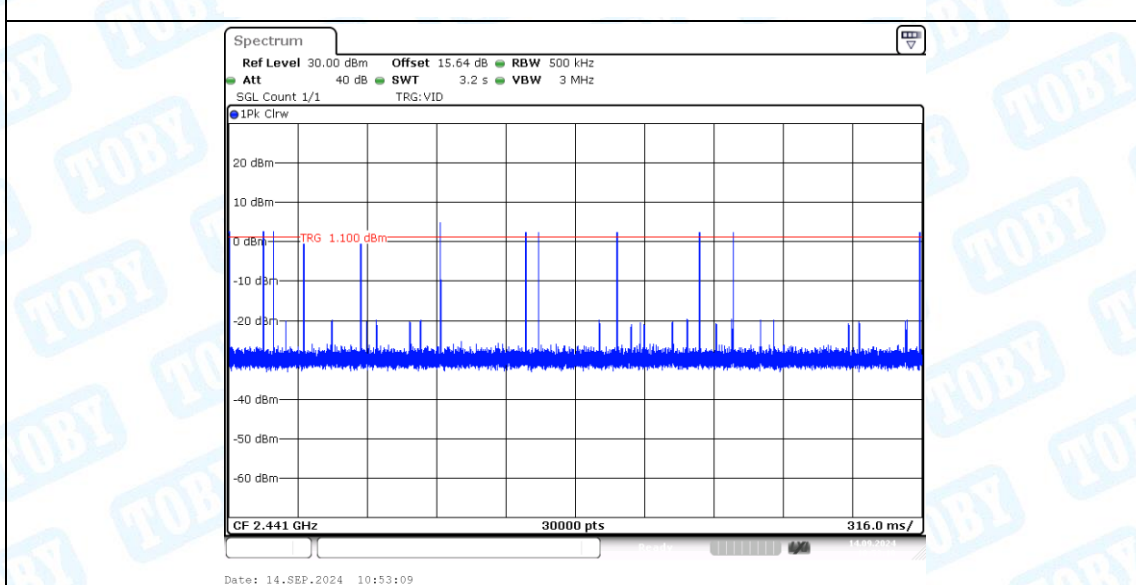
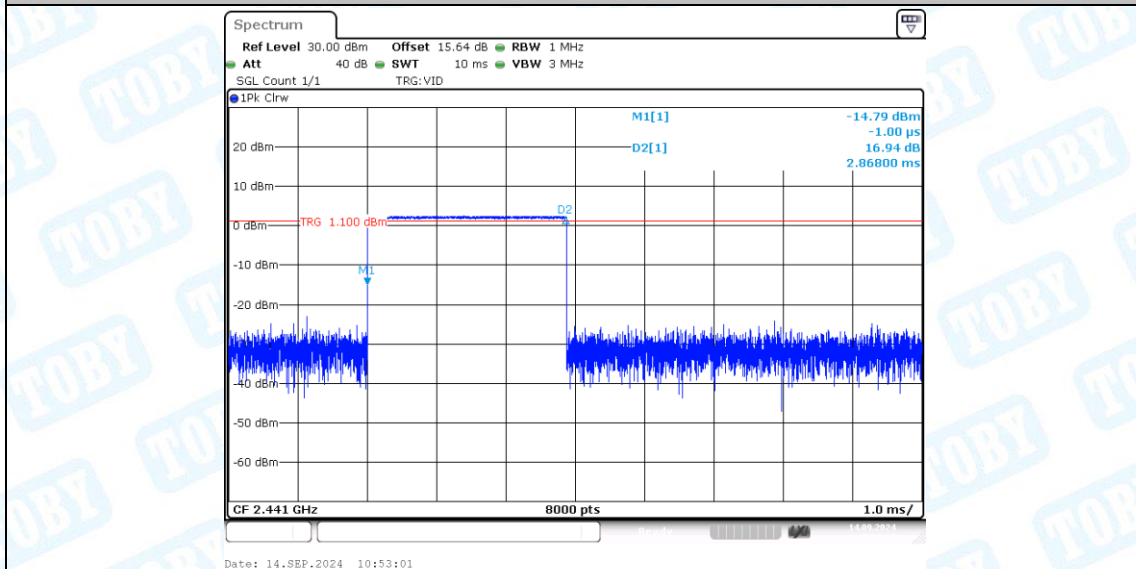
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.379	320	0.121	≤0.4	PASS
DH3	Ant1	Hop	1.628	120	0.195	≤0.4	PASS
DH5	Ant1	Hop	2.868	120	0.344	≤0.4	PASS
2DH1	Ant1	Hop	0.388	320	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.631	190	0.31	≤0.4	PASS
2DH5	Ant1	Hop	2.872	90	0.258	≤0.4	PASS
3DH1	Ant1	Hop	0.388	320	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.631	190	0.31	≤0.4	PASS
3DH5	Ant1	Hop	2.874	70	0.201	≤0.4	PASS

5.2.Test Graphs

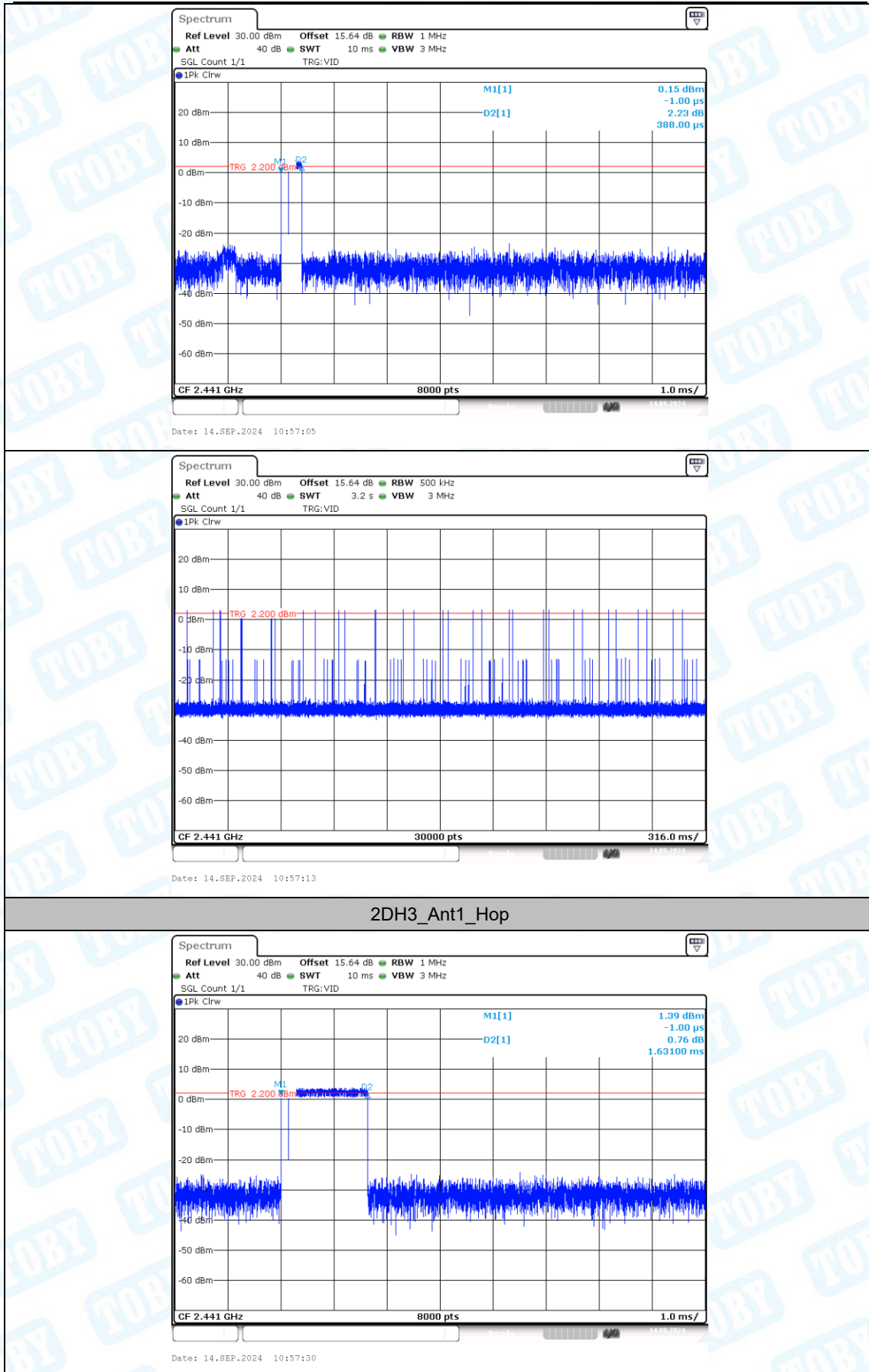


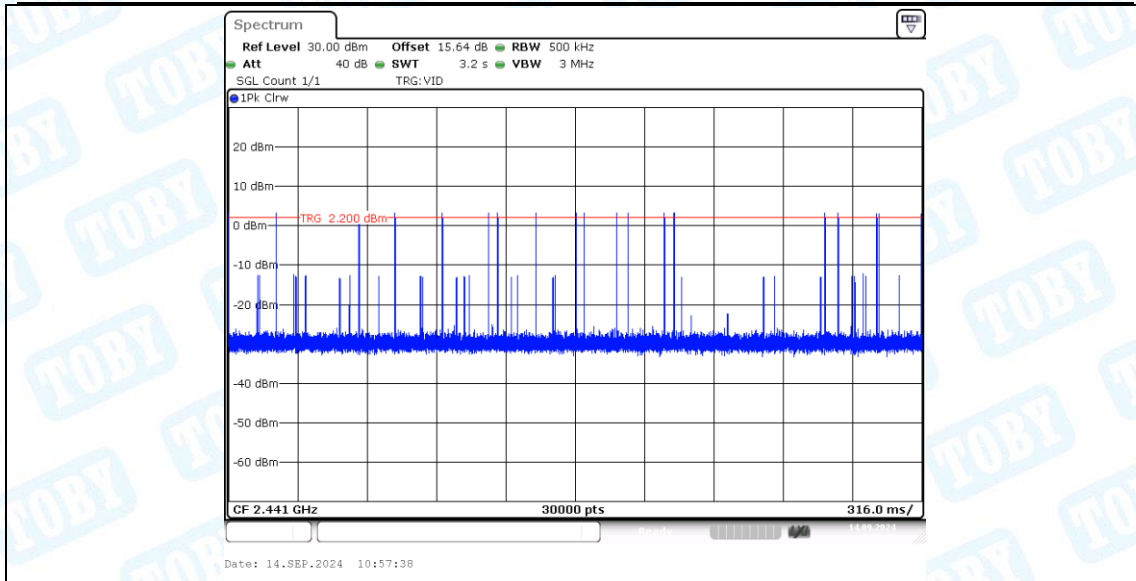


DH5_Ant1_Hop

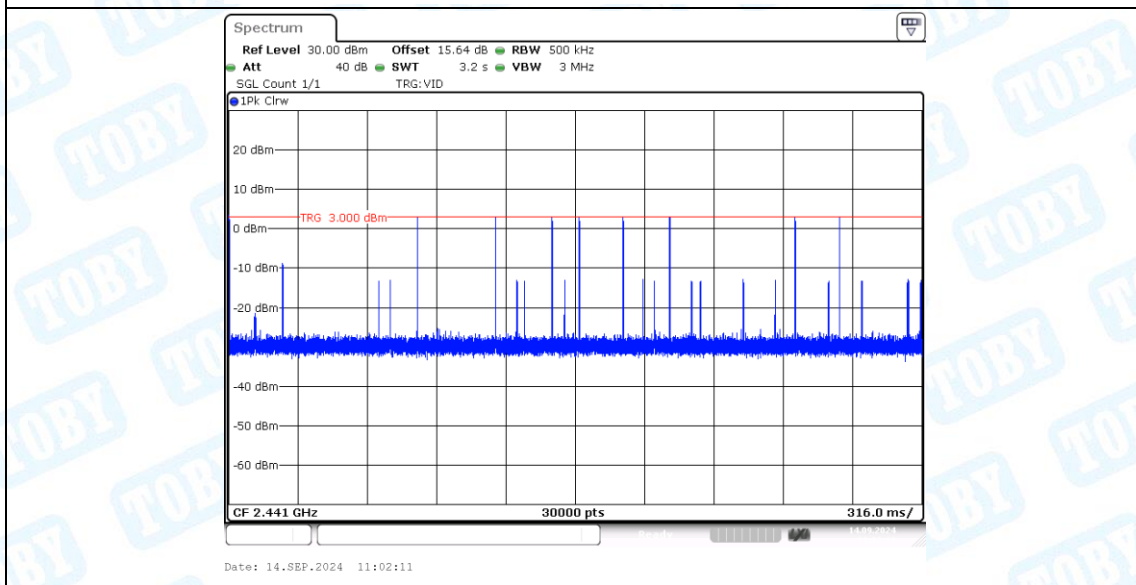
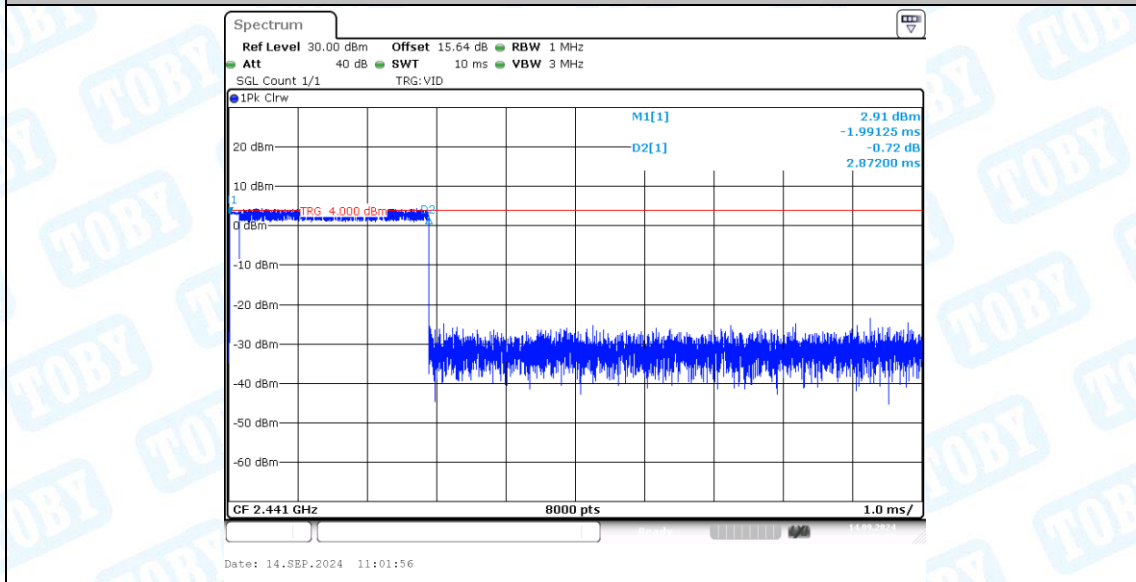


2DH1_Ant1_Hop

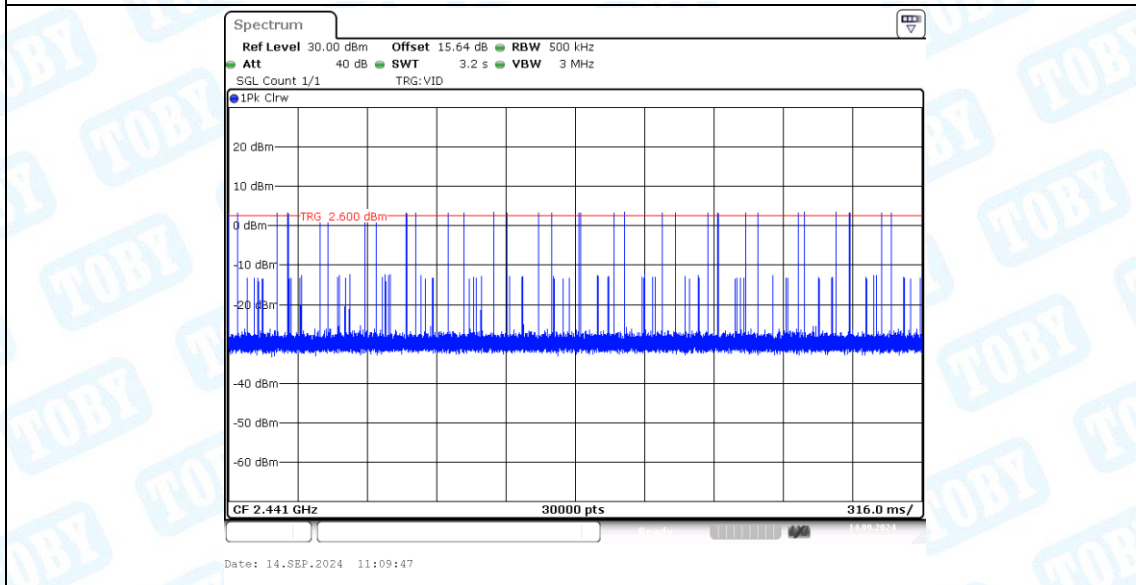
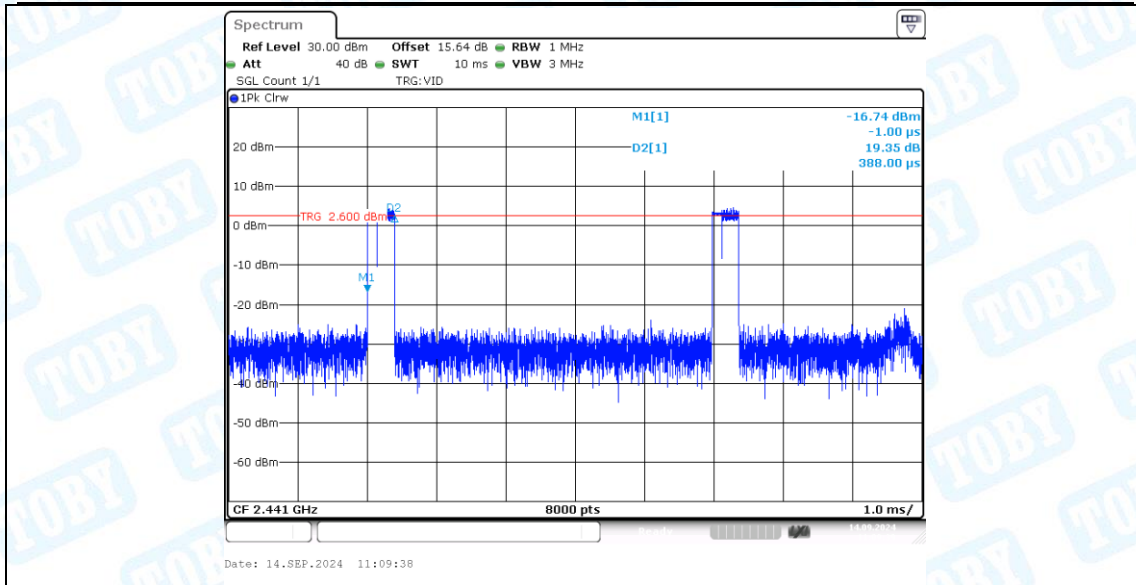




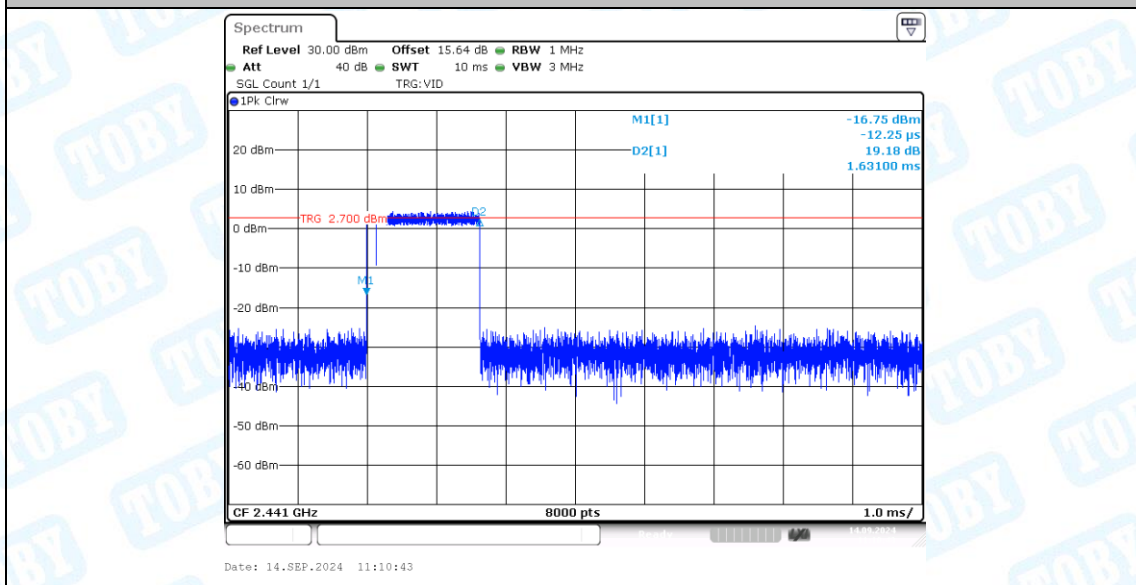
2DH5_Ant1_Hop

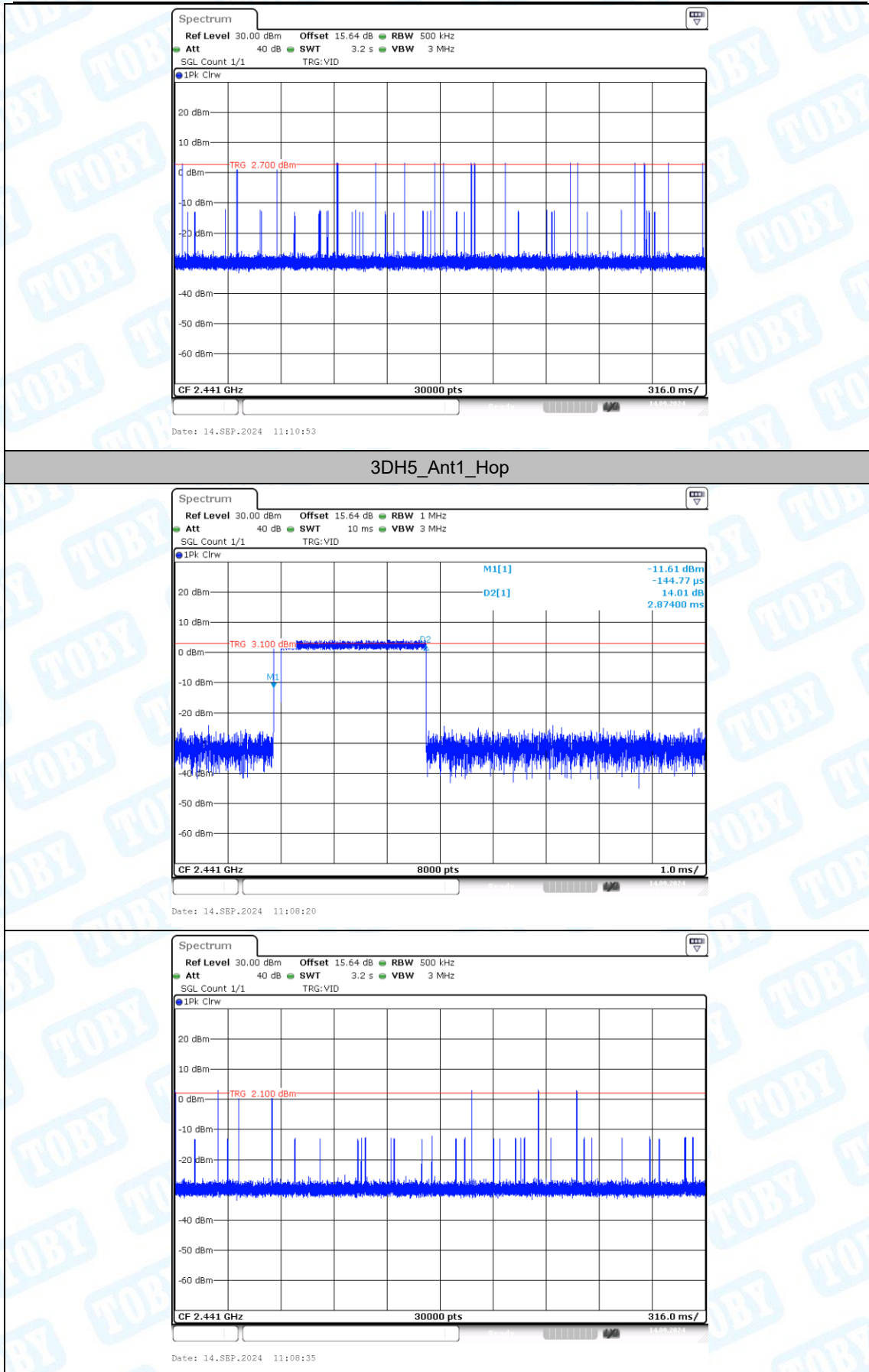


3DH1_Ant1_Hop



3DH3_Ant1_Hop





6. Number of hopping channels

6.1. Test Result

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

6.2.Test Graphs

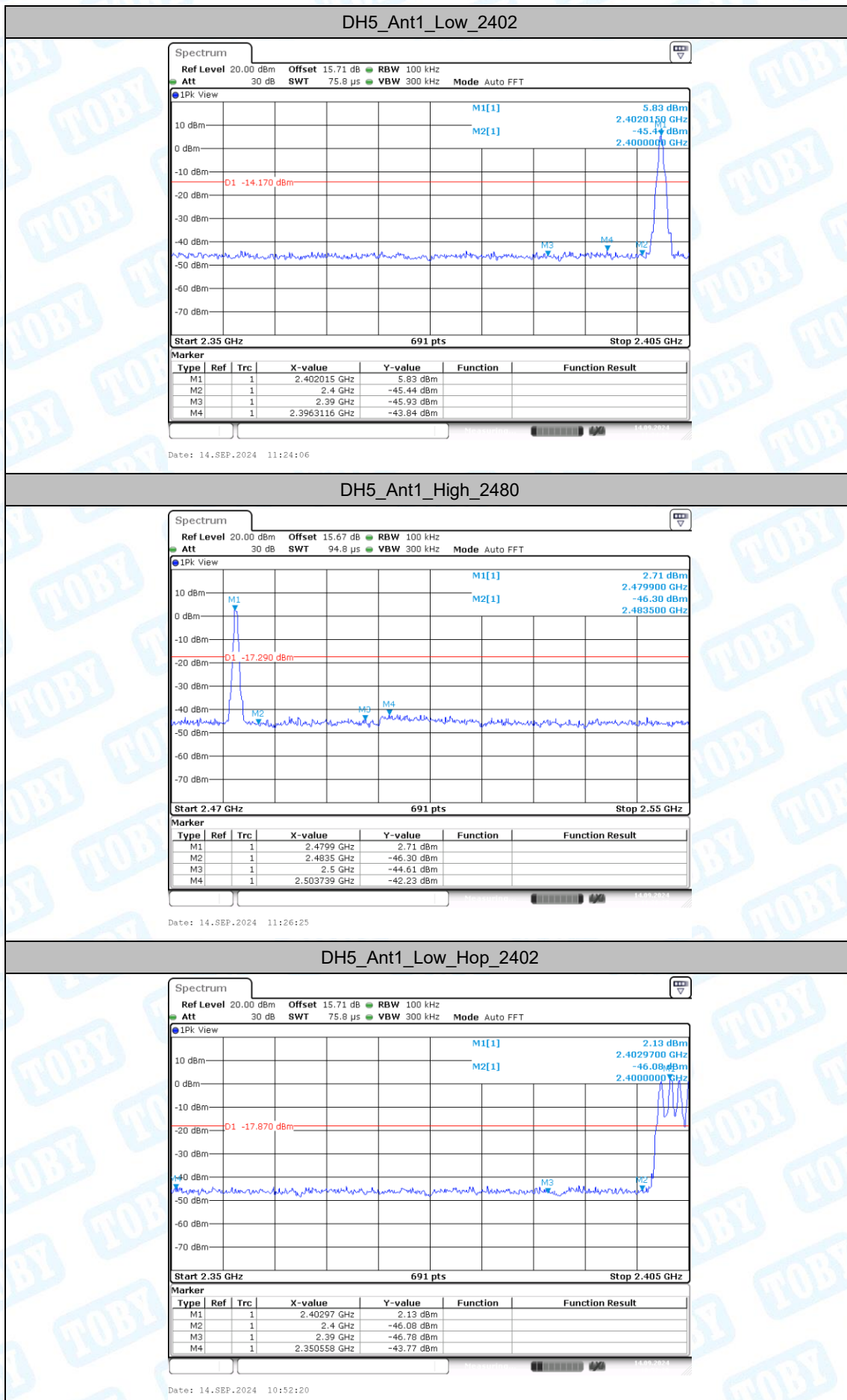


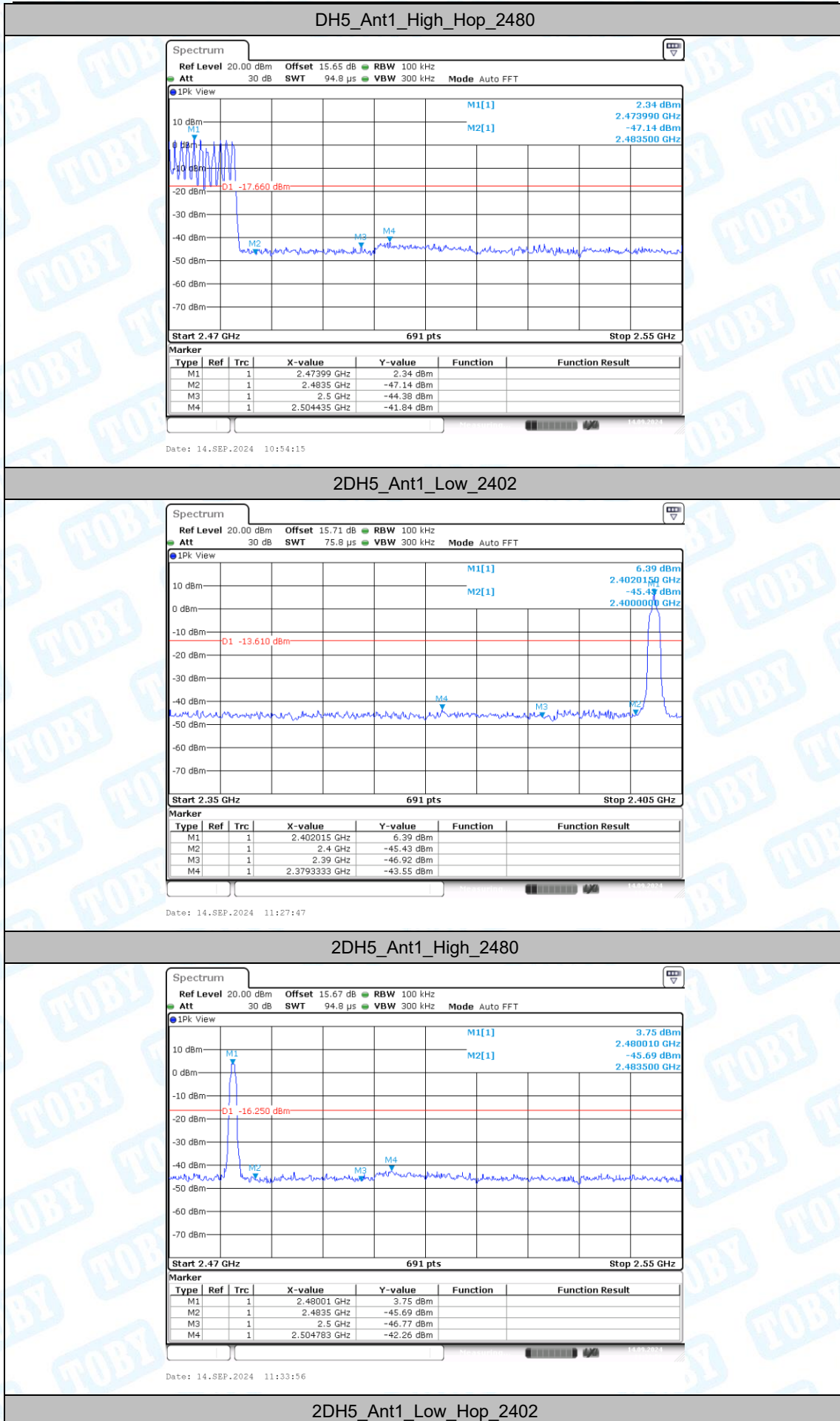
7. Band edge measurements

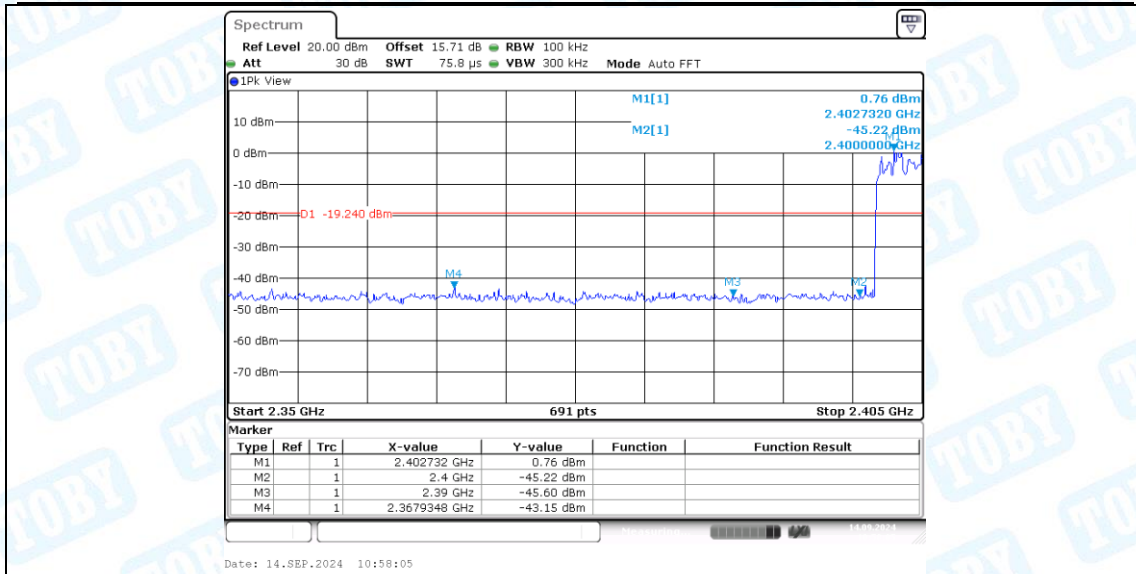
7.1. Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	5.83	-43.84	≤-14.17	PASS
		High	2480	2.71	-42.23	≤-17.29	PASS
		Low	Hop_2402	2.13	-43.77	≤-17.87	PASS
		High	Hop_2480	2.34	-41.84	≤-17.66	PASS
2DH5	Ant1	Low	2402	6.39	-43.55	≤-13.61	PASS
		High	2480	3.75	-42.26	≤-16.25	PASS
		Low	Hop_2402	0.76	-43.15	≤-19.24	PASS
		High	Hop_2480	1.28	-41.57	≤-18.72	PASS
3DH5	Ant1	Low	2402	3.70	-43.42	≤-16.3	PASS
		High	2480	3.42	-42.57	≤-16.58	PASS
		Low	Hop_2402	3.55	-43.81	≤-16.45	PASS
		High	Hop_2480	-0.38	-40.89	≤-20.38	PASS

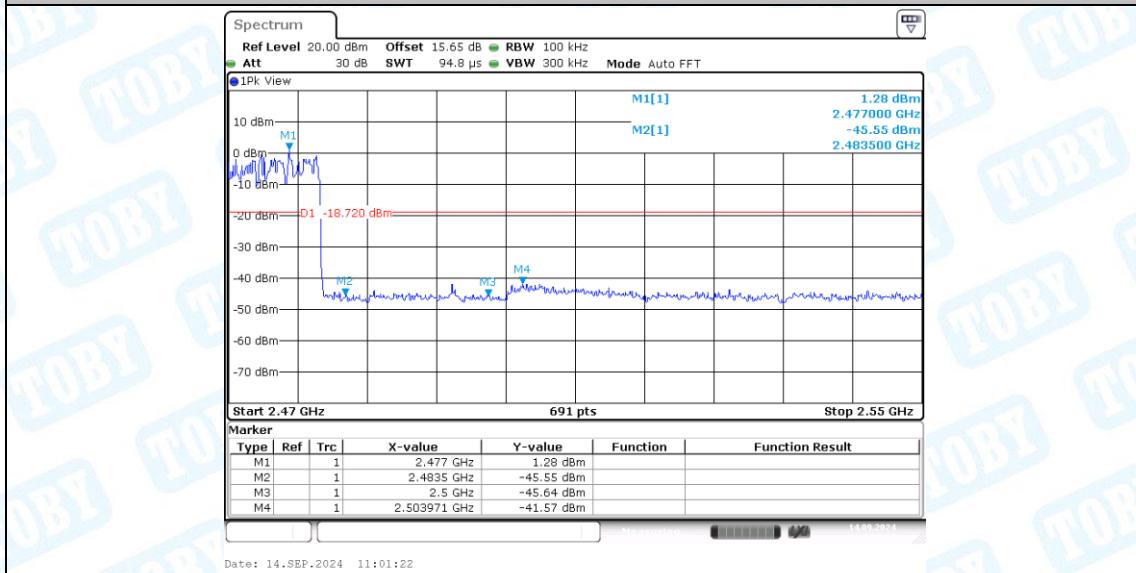
7.2.Test Graphs



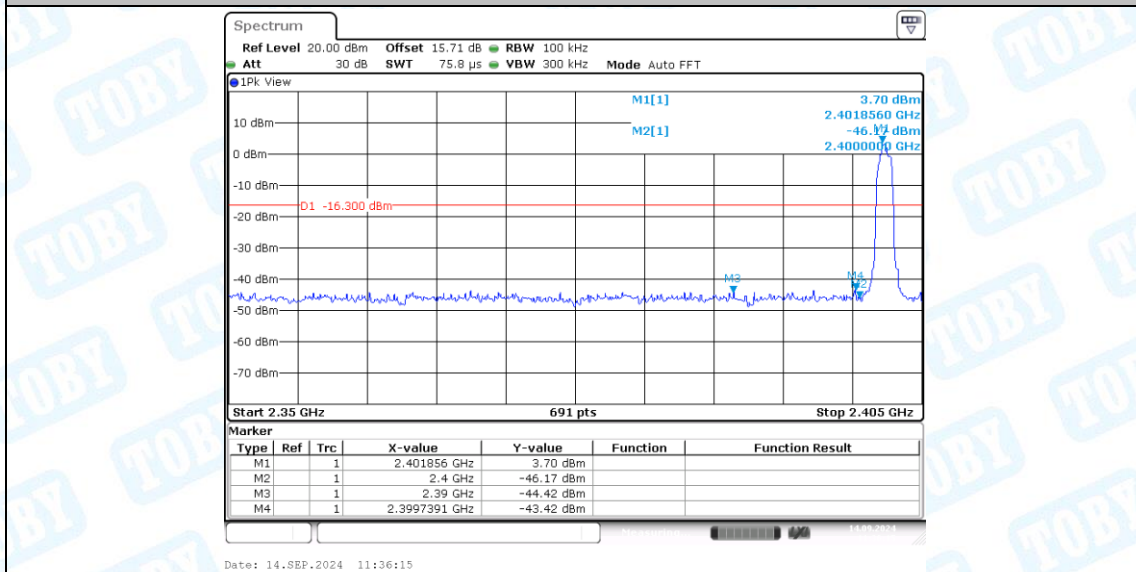




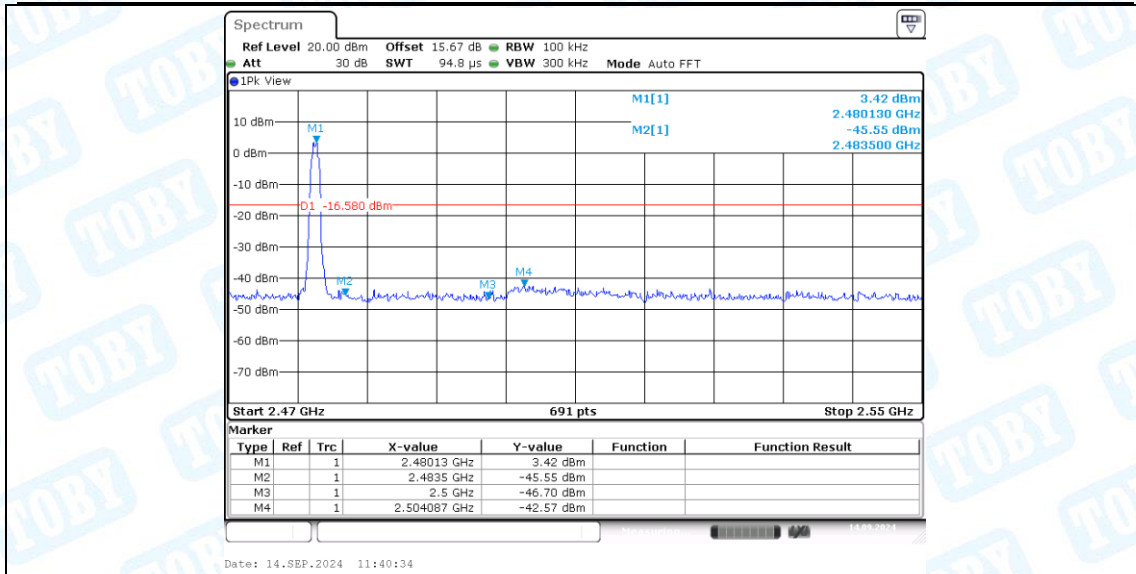
2DH5_Ant1_High_Hop_2480



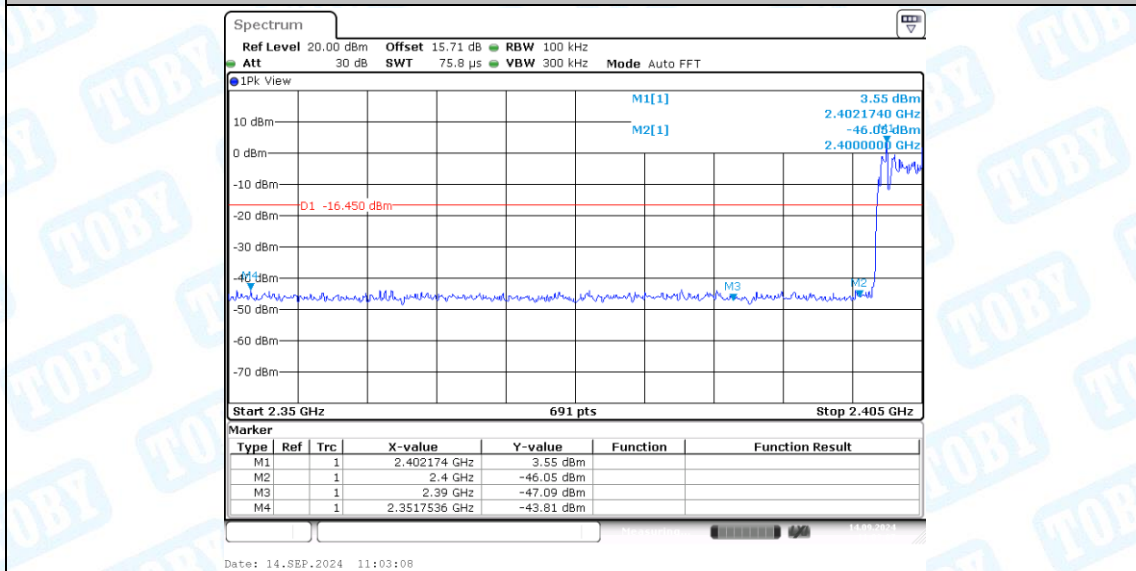
3DH5_Ant1_Low_2402



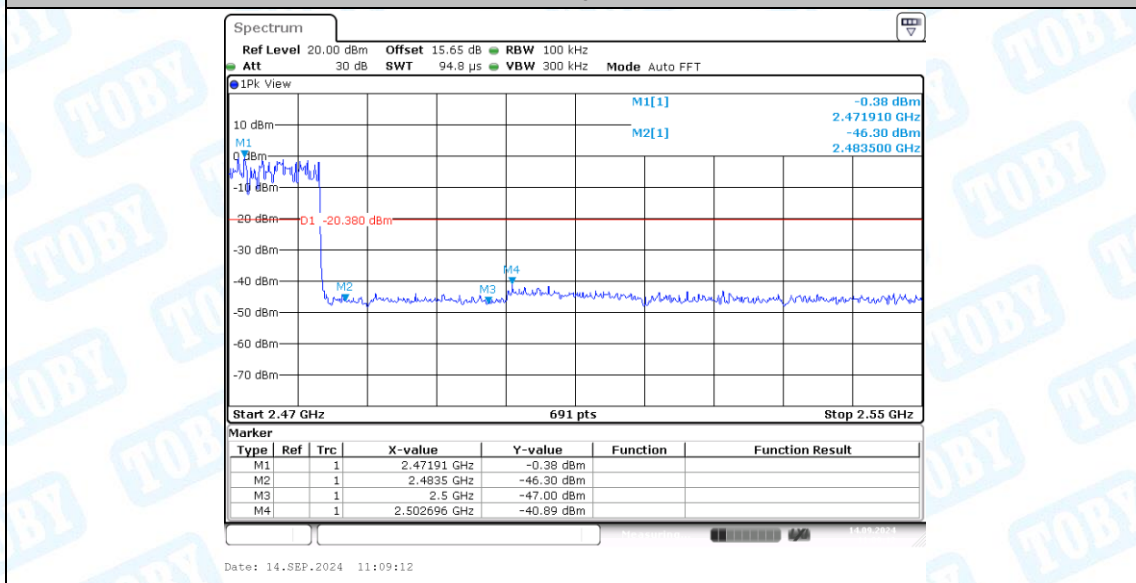
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

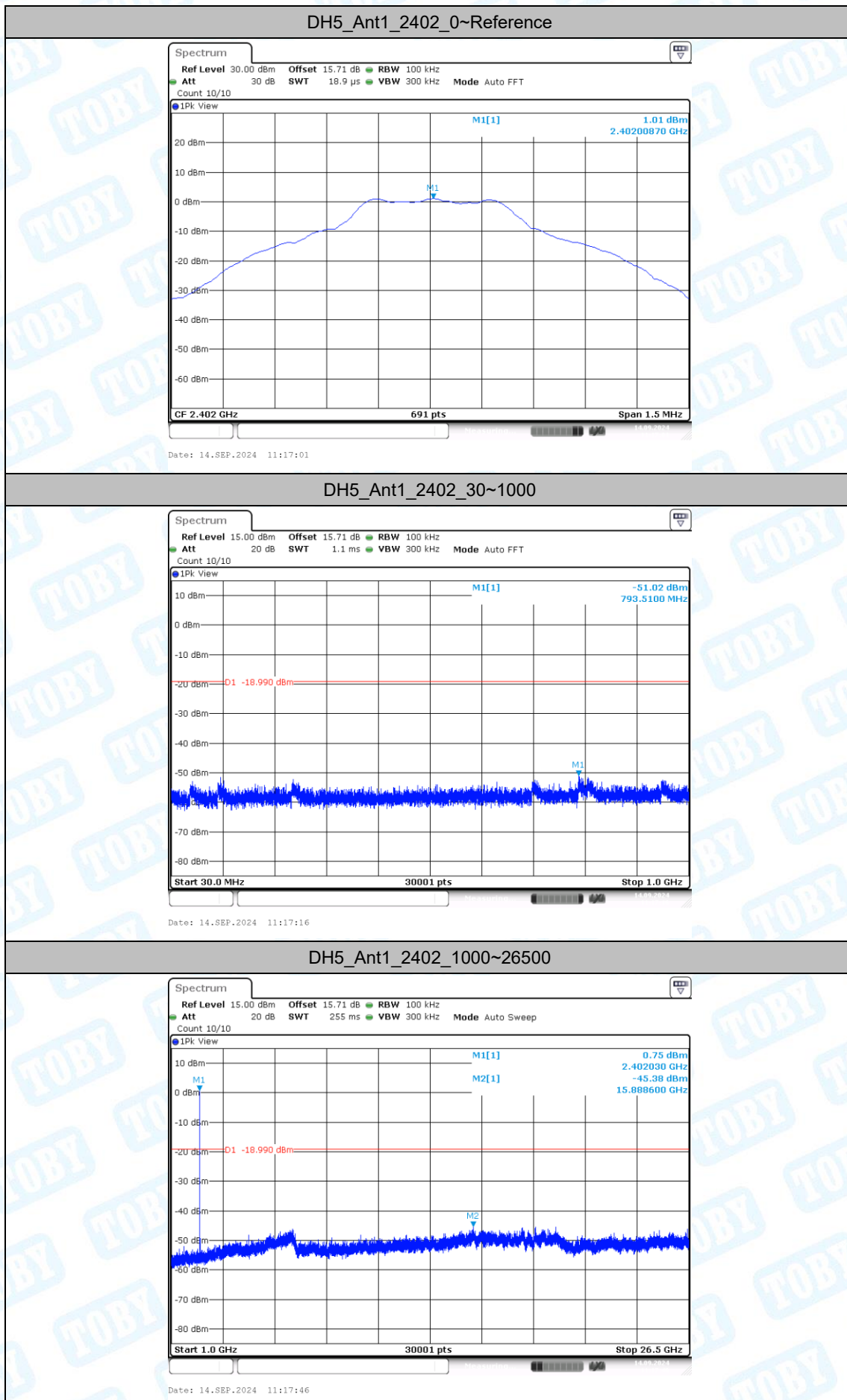


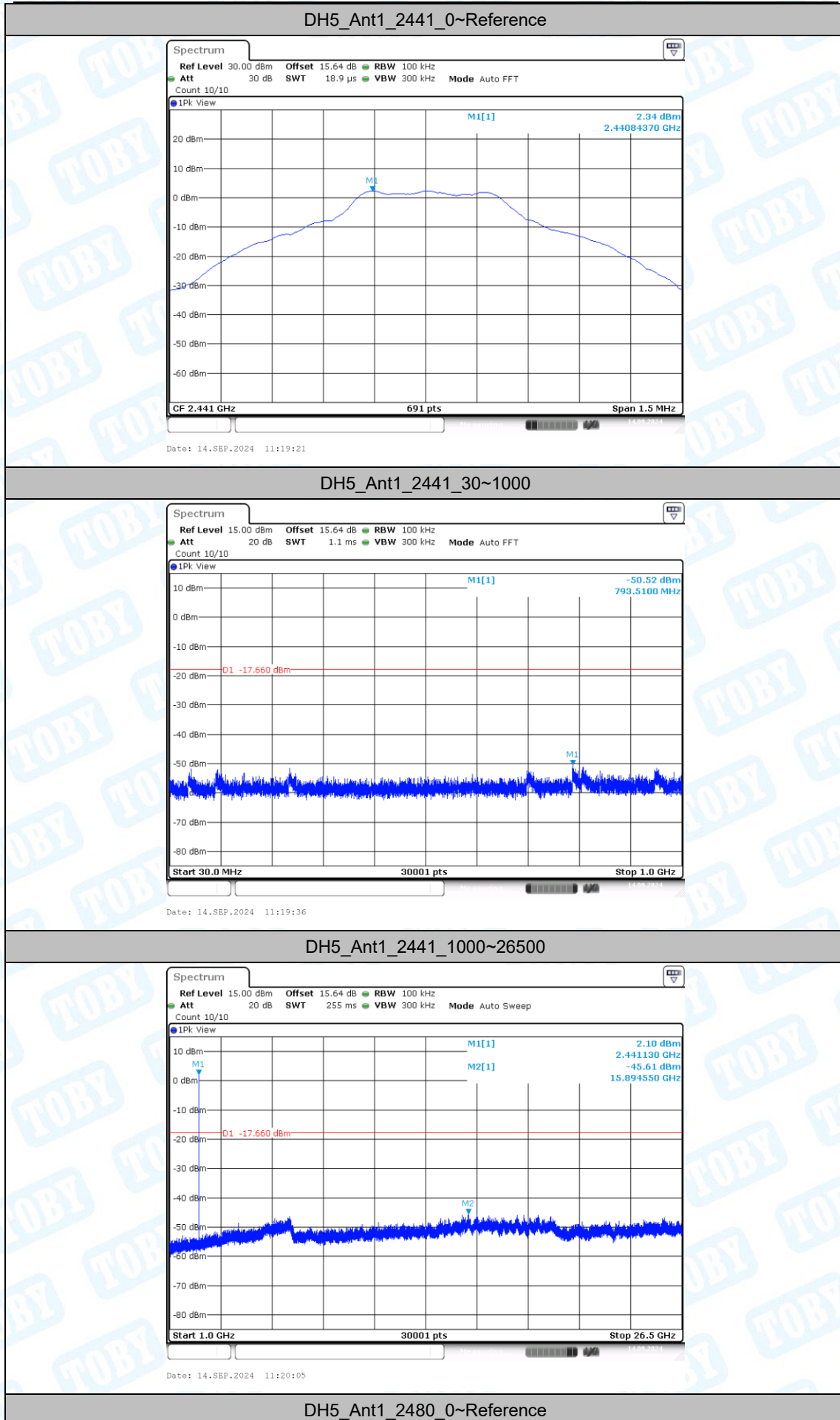
8. Conducted Spurious Emission

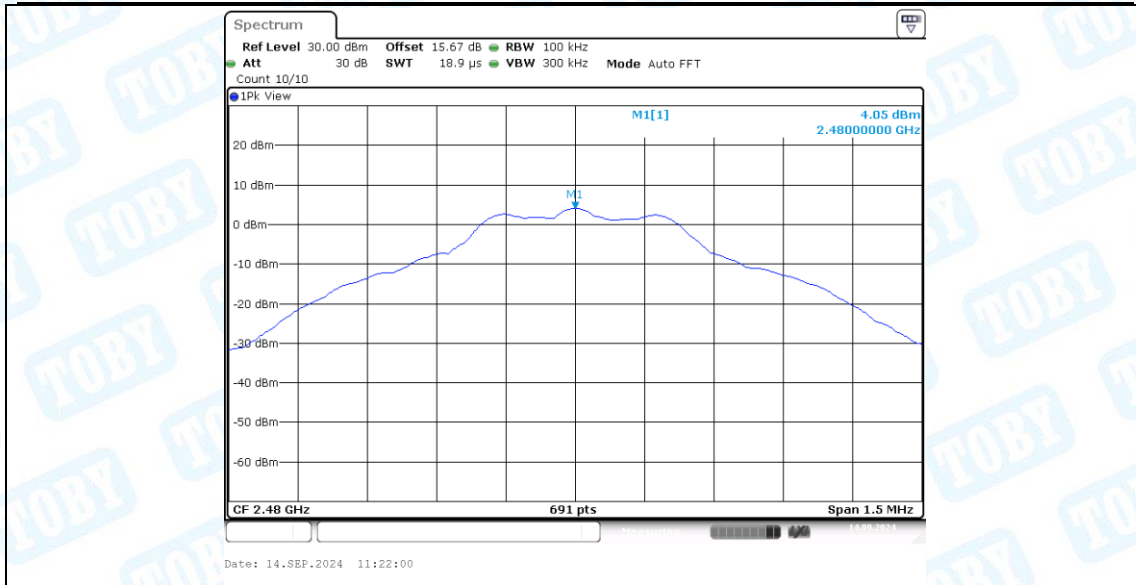
8.1. Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.01	1.01	---	PASS
			30~1000	1.01	-51.02	≤-18.99	PASS
			1000~26500	1.01	-45.38	≤-18.99	PASS
		2441	Reference	2.34	2.34	---	PASS
			30~1000	2.34	-50.52	≤-17.66	PASS
			1000~26500	2.34	-45.61	≤-17.66	PASS
		2480	Reference	4.05	4.05	---	PASS
			30~1000	4.05	-50.37	≤-15.95	PASS
			1000~26500	4.05	-45.43	≤-15.95	PASS
2DH5	Ant1	2402	Reference	5.79	5.79	---	PASS
			30~1000	5.79	-51.25	≤-14.21	PASS
			1000~26500	5.79	-45.39	≤-14.21	PASS
		2441	Reference	5.62	5.62	---	PASS
			30~1000	5.62	-50.9	≤-14.38	PASS
			1000~26500	5.62	-45.95	≤-14.38	PASS
		2480	Reference	11.60	11.60	---	PASS
			30~1000	11.60	-50.41	≤-8.4	PASS
			1000~26500	11.60	-45.72	≤-8.4	PASS
3DH5	Ant1	2402	Reference	3.66	3.66	---	PASS
			30~1000	3.66	-49.71	≤-16.34	PASS
			1000~26500	3.66	-33.42	≤-16.34	PASS
		2441	Reference	3.25	3.25	---	PASS
			30~1000	3.25	-50.85	≤-16.75	PASS
			1000~26500	3.25	-45.78	≤-16.75	PASS
		2480	Reference	3.67	3.67	---	PASS
			30~1000	3.67	-49.74	≤-16.33	PASS
			1000~26500	3.67	-45.05	≤-16.33	PASS

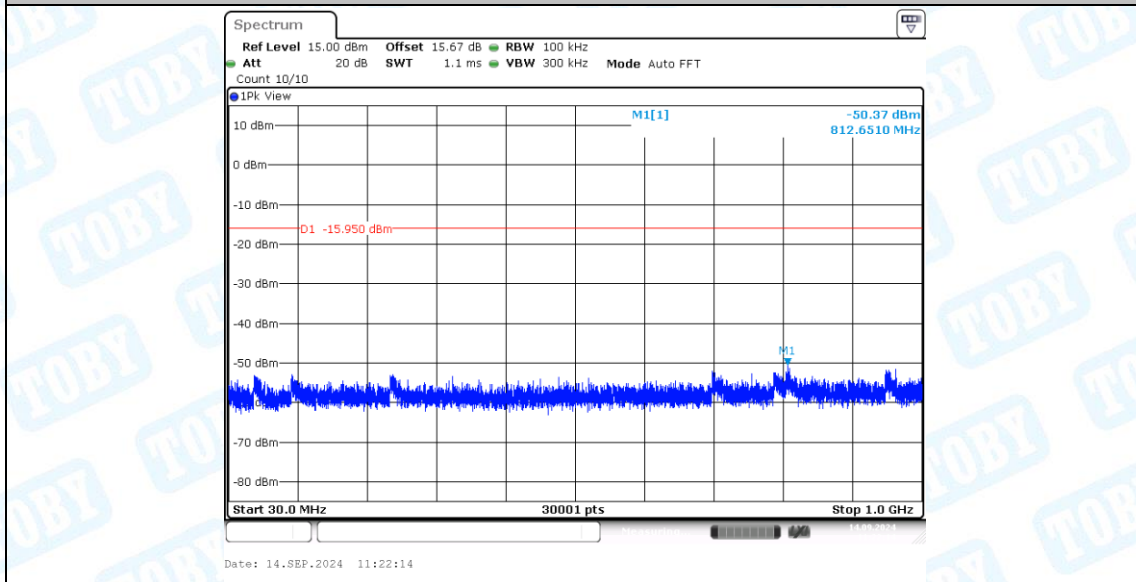
8.2. Test Graphs



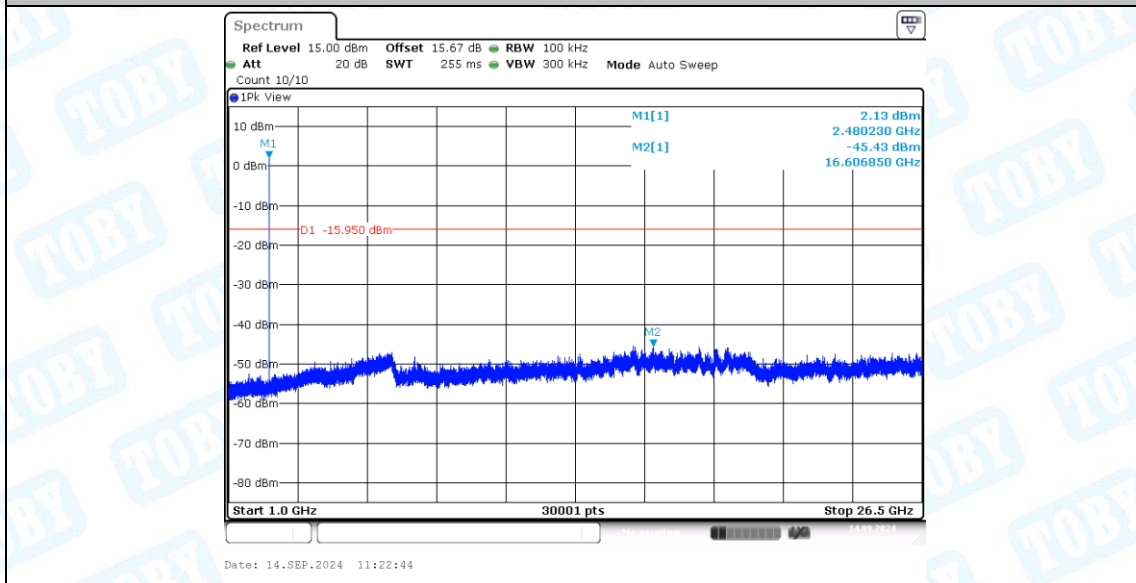




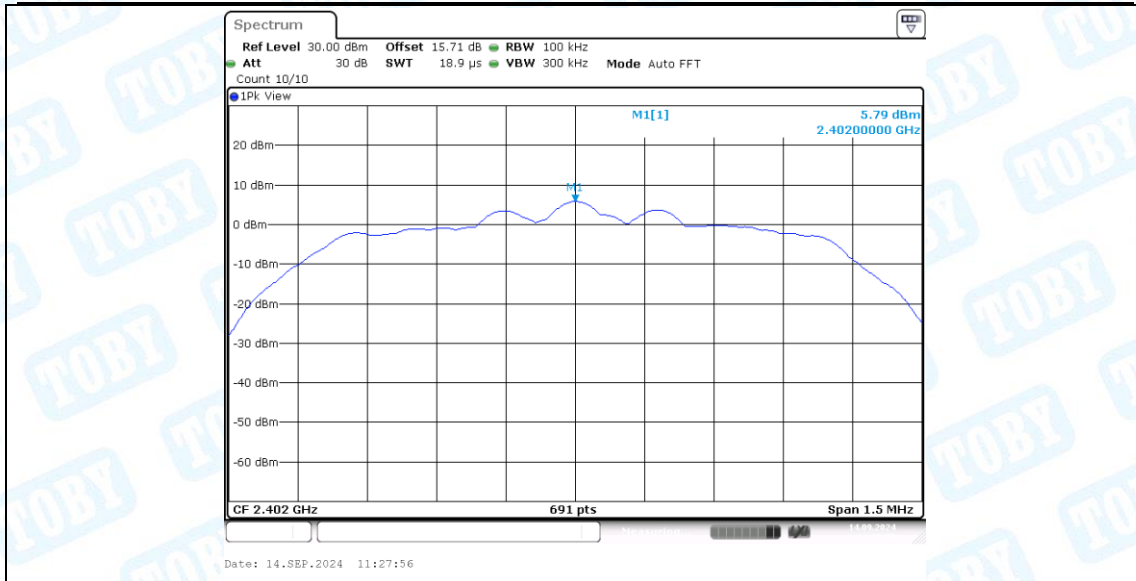
DH5_Ant1_2480_30~1000



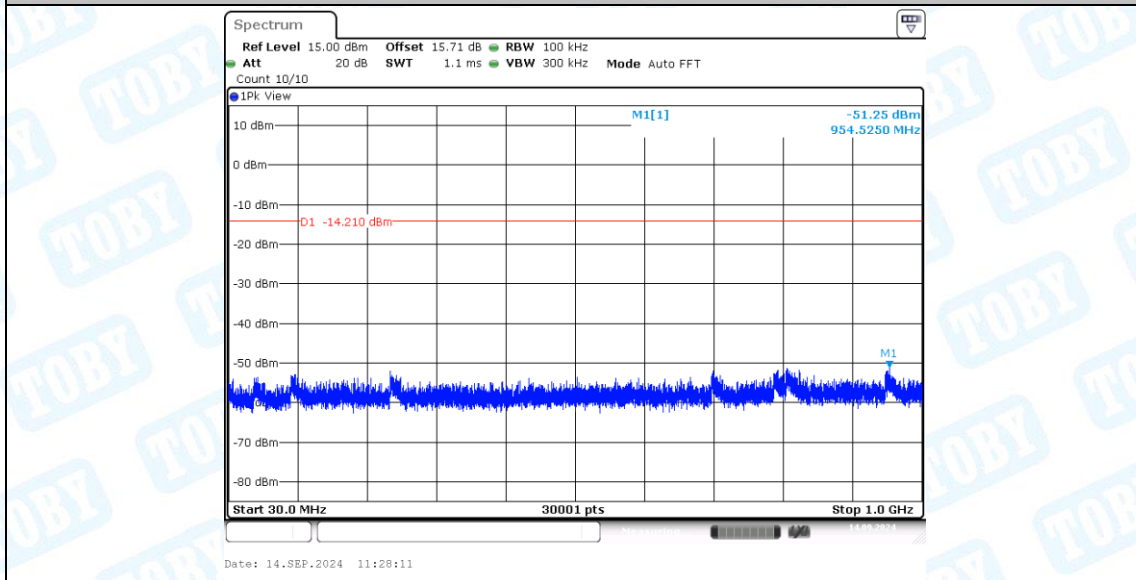
DH5_Ant1_2480_1000~26500



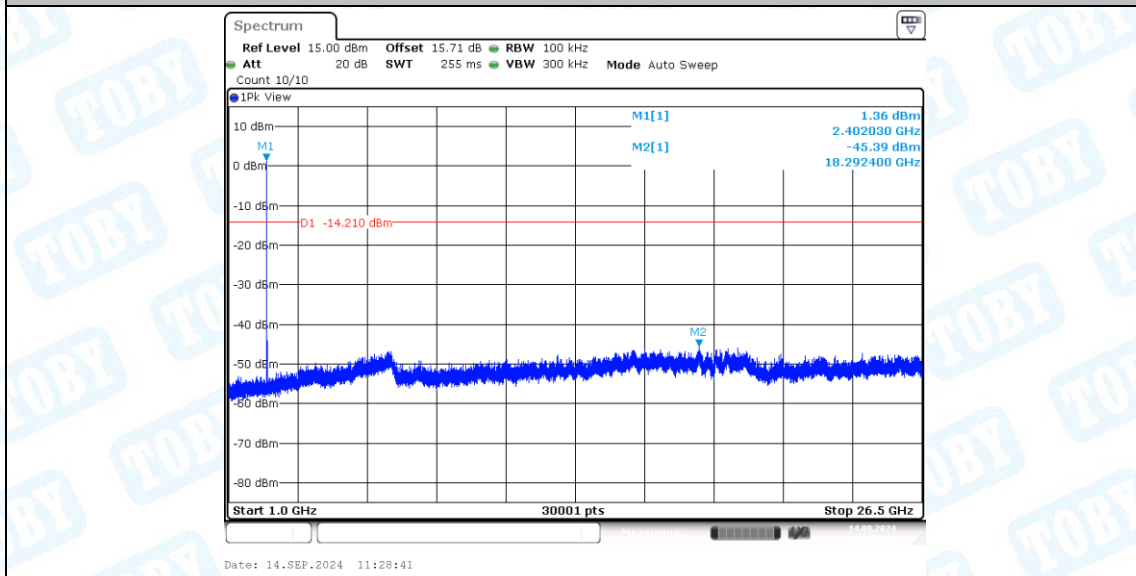
2DH5_Ant1_2402_0~Reference



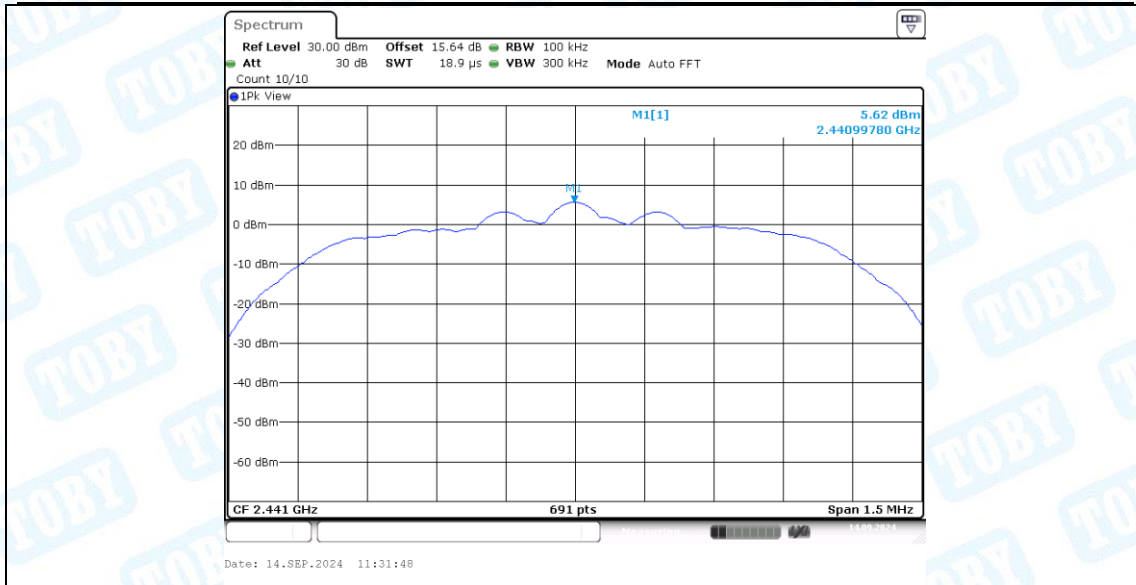
2DH5_Ant1_2402_30~1000



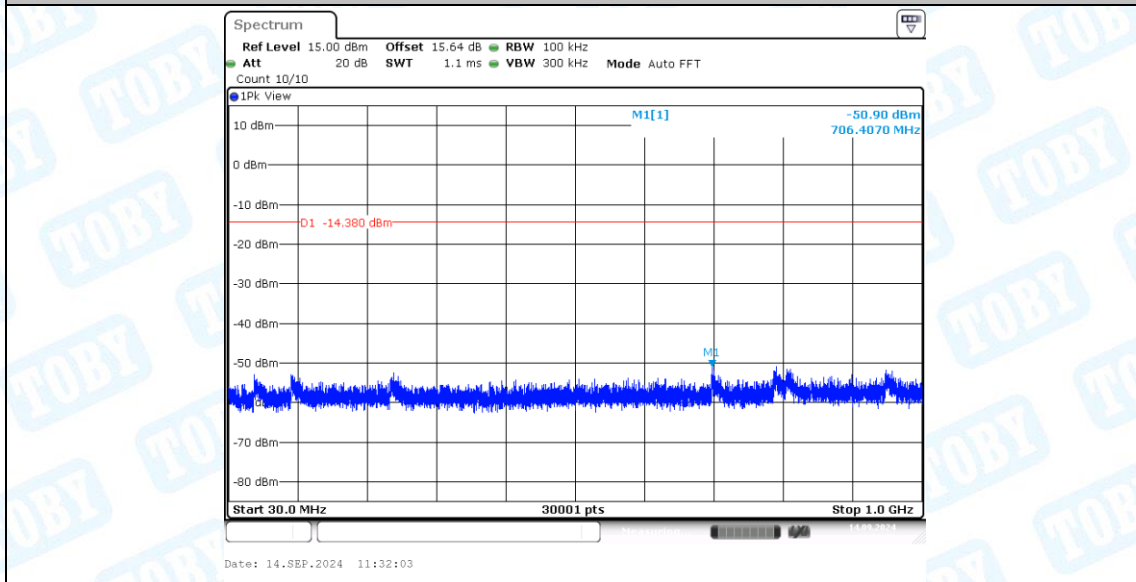
2DH5_Ant1_2402_1000~26500



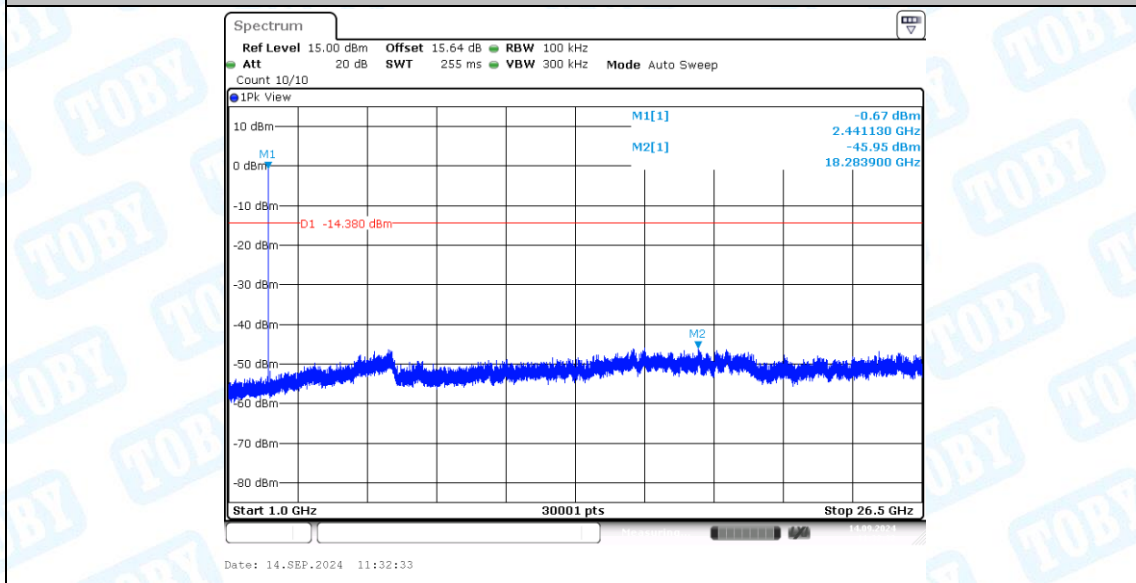
2DH5_Ant1_2441_0~Reference



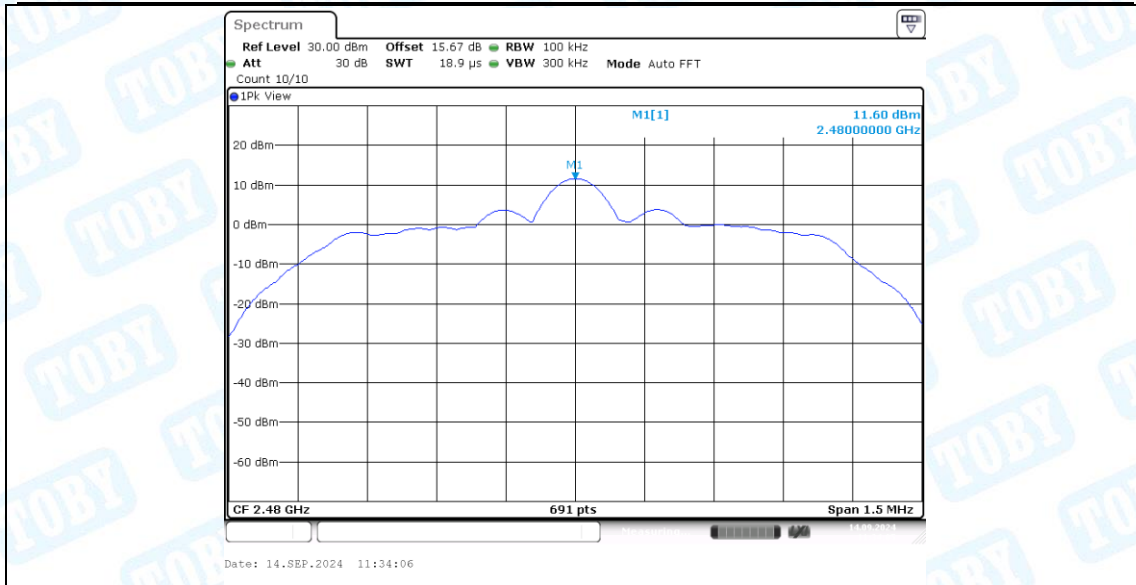
2DH5_Ant1_2441_30~1000



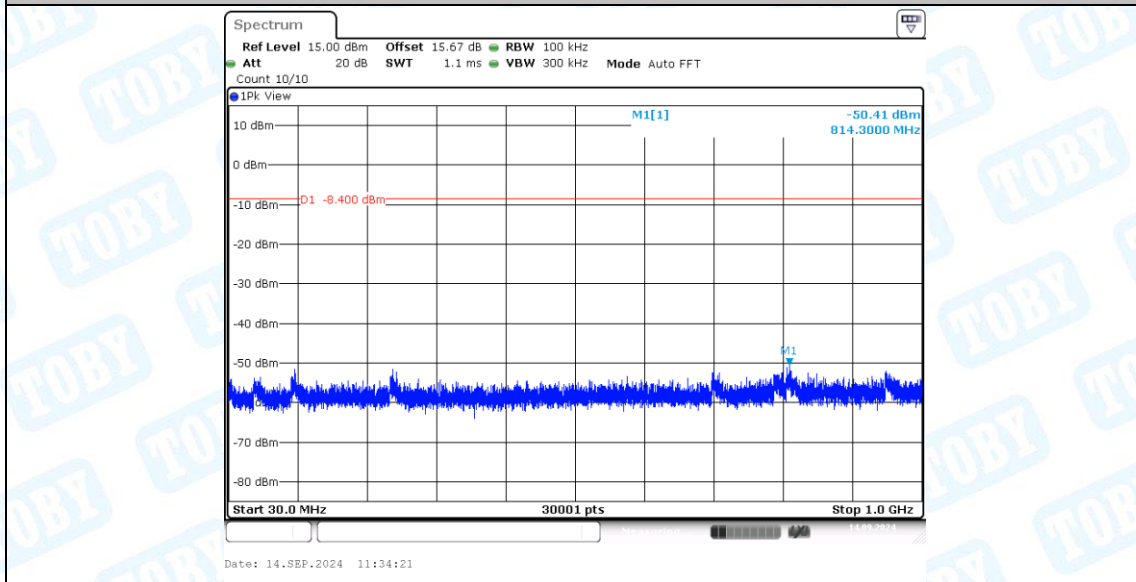
2DH5_Ant1_2441_1000~26500



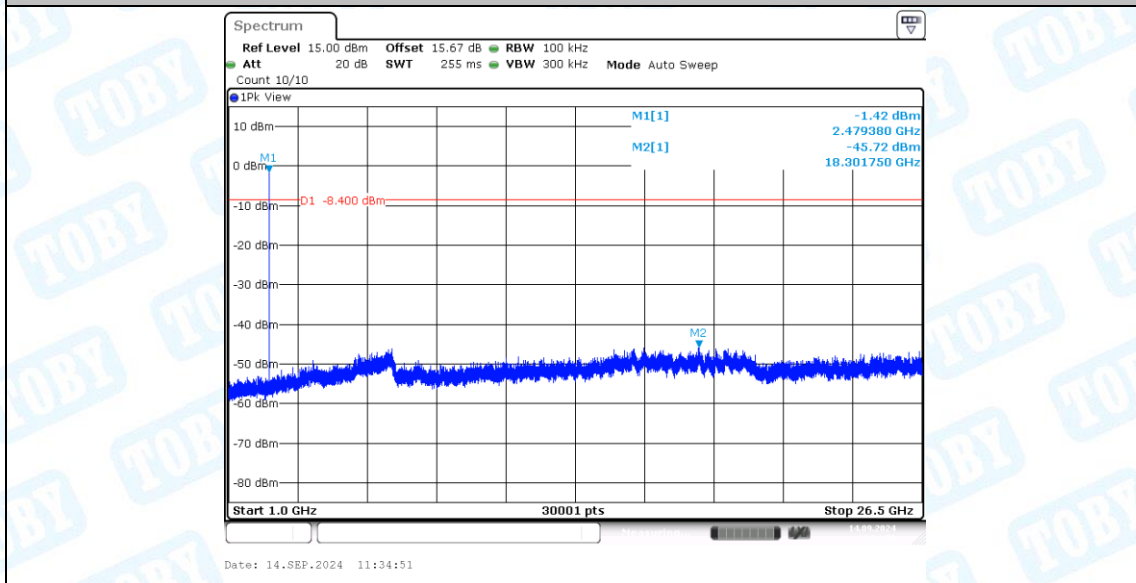
2DH5_Ant1_2480_0~Reference



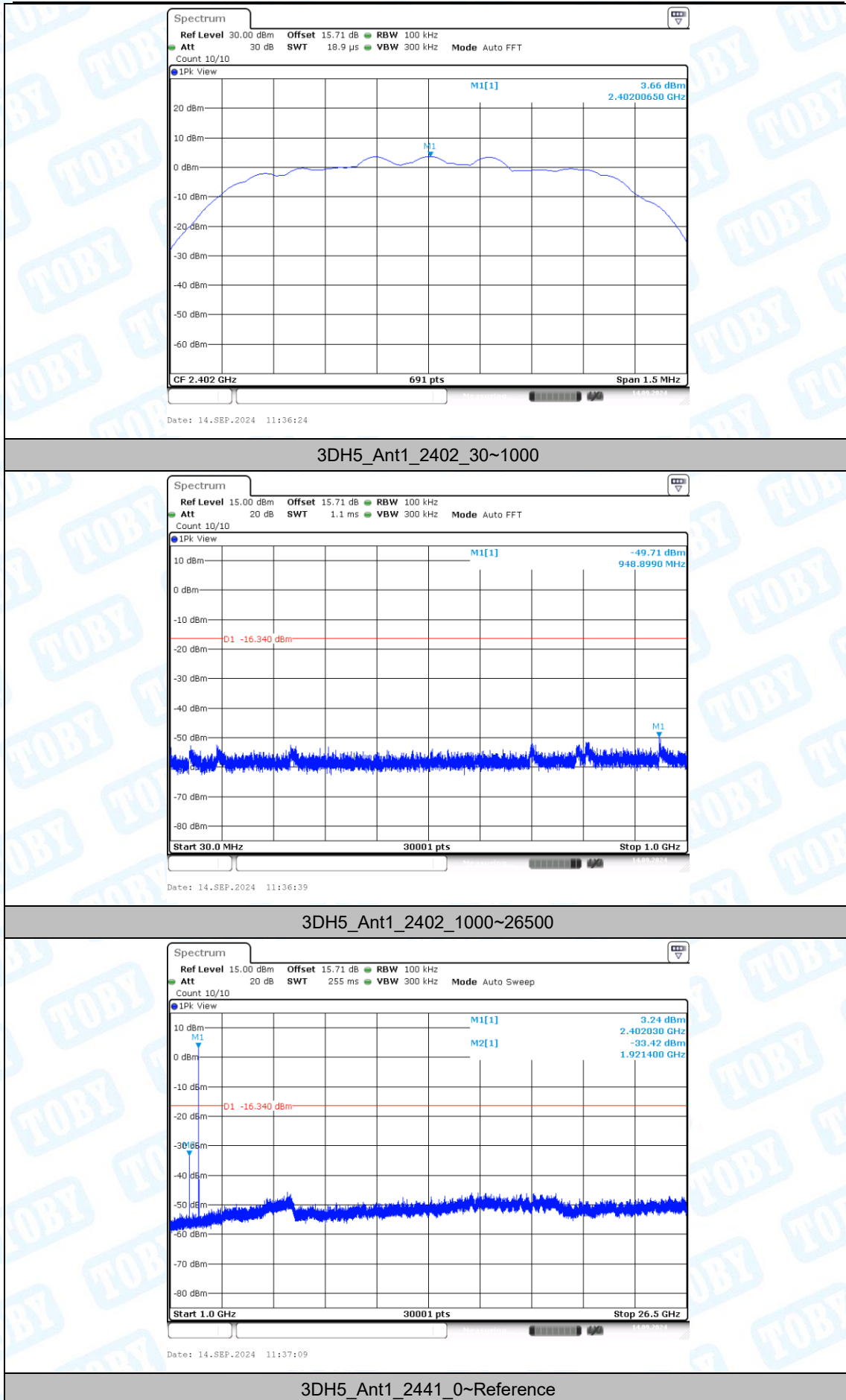
2DH5_Ant1_2480_30~1000

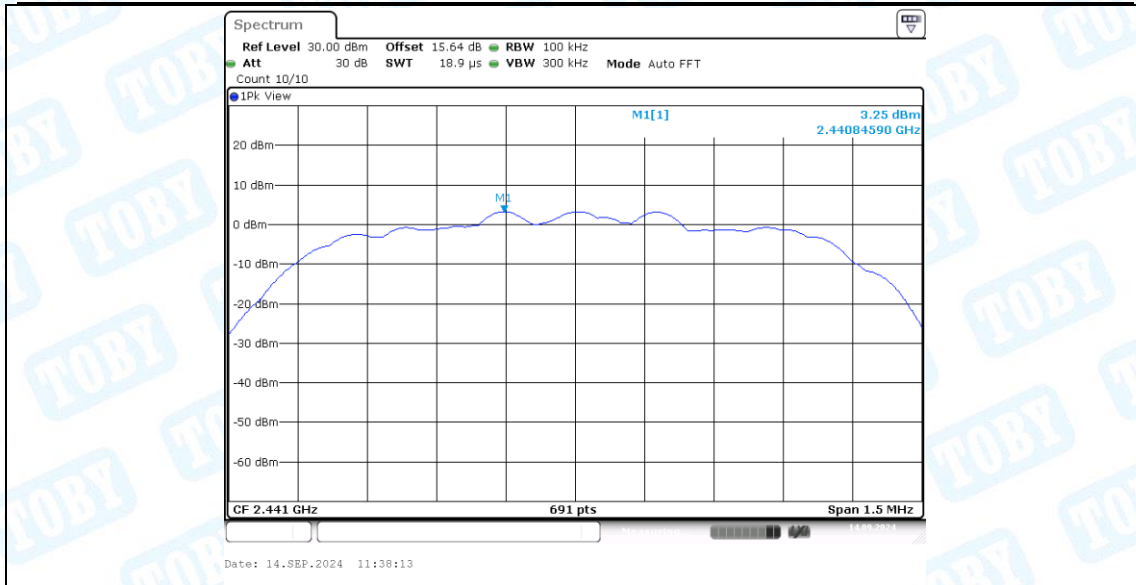


2DH5_Ant1_2480_1000~26500

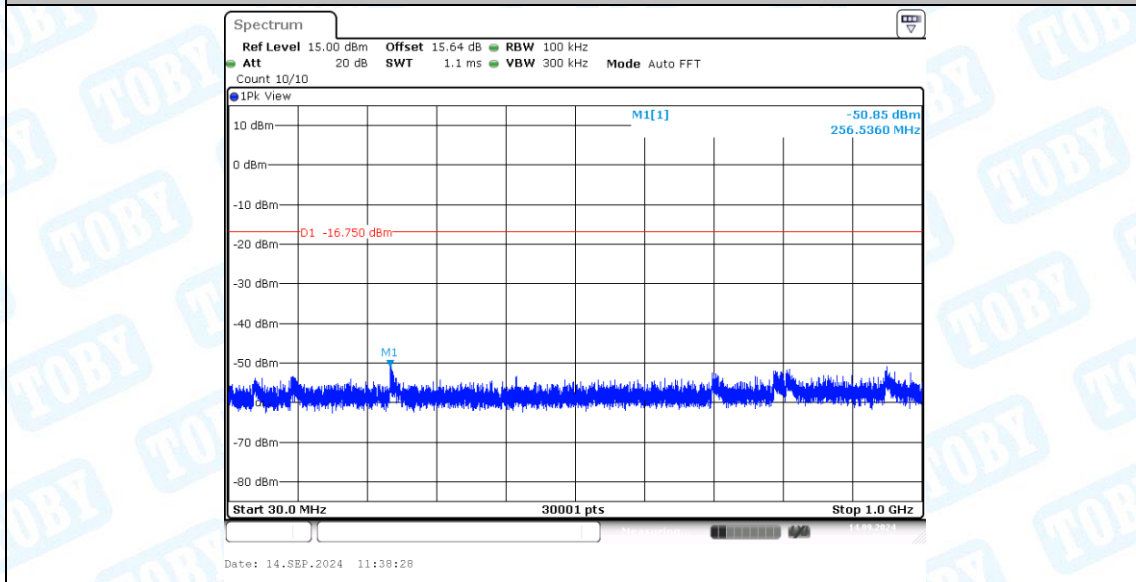


3DH5_Ant1_2402_0~Reference

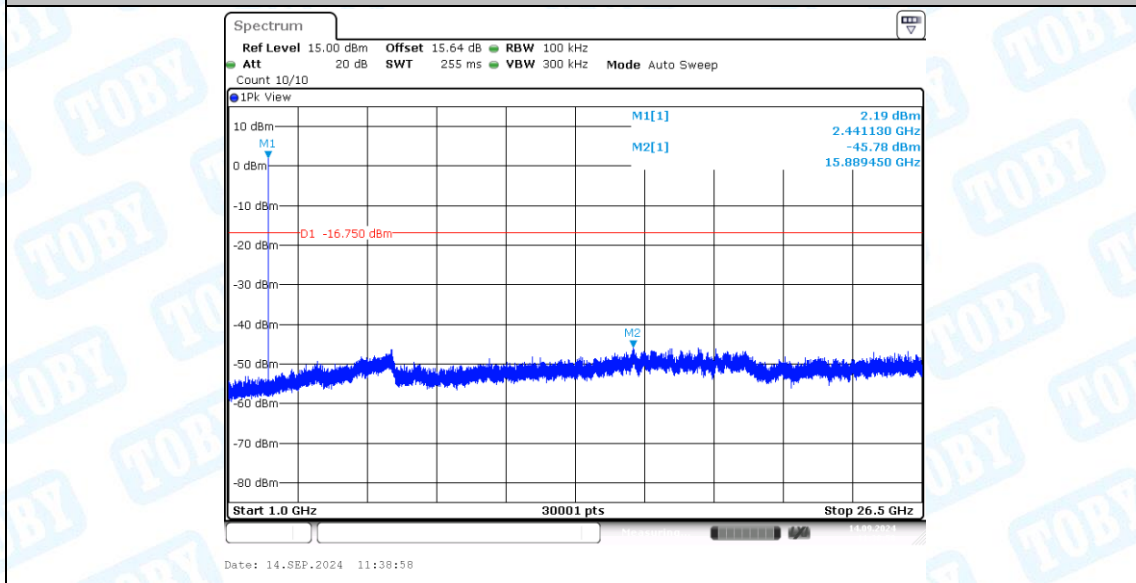




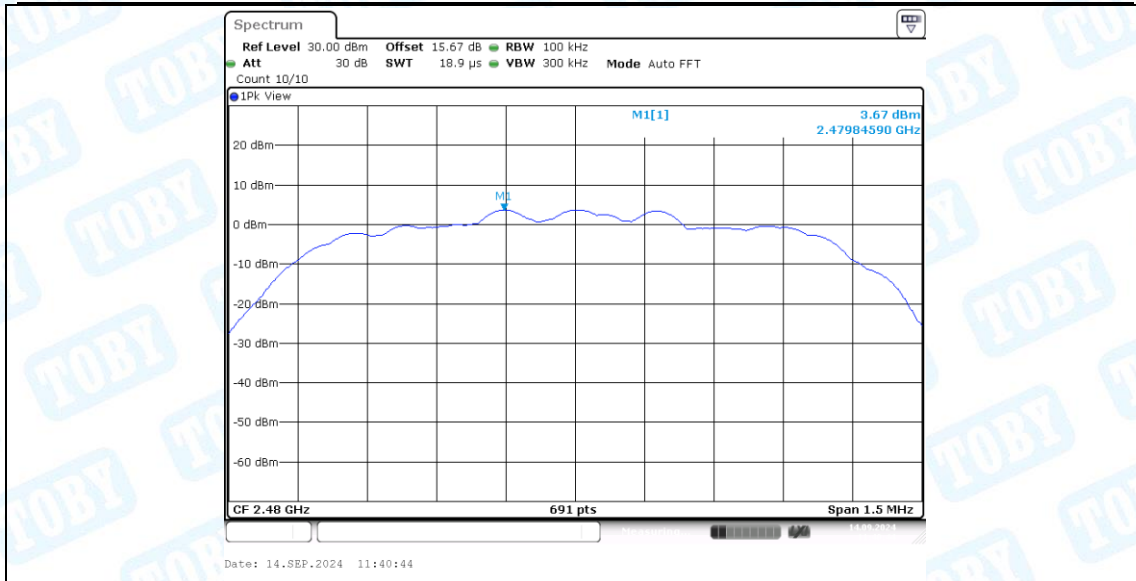
3DH5_Ant1_2441_30~1000



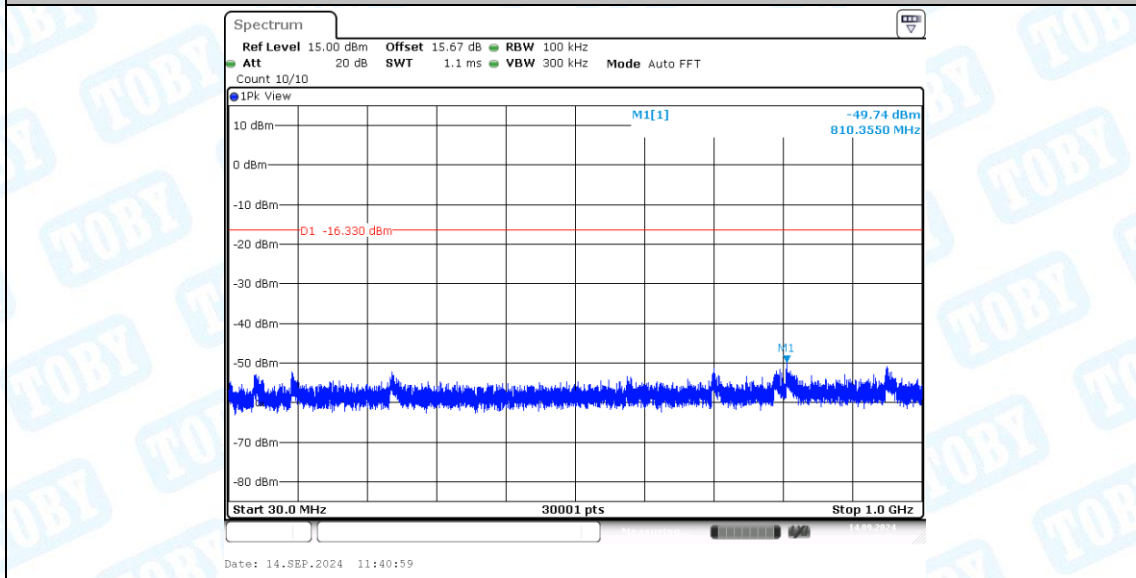
3DH5_Ant1_2441_1000~26500



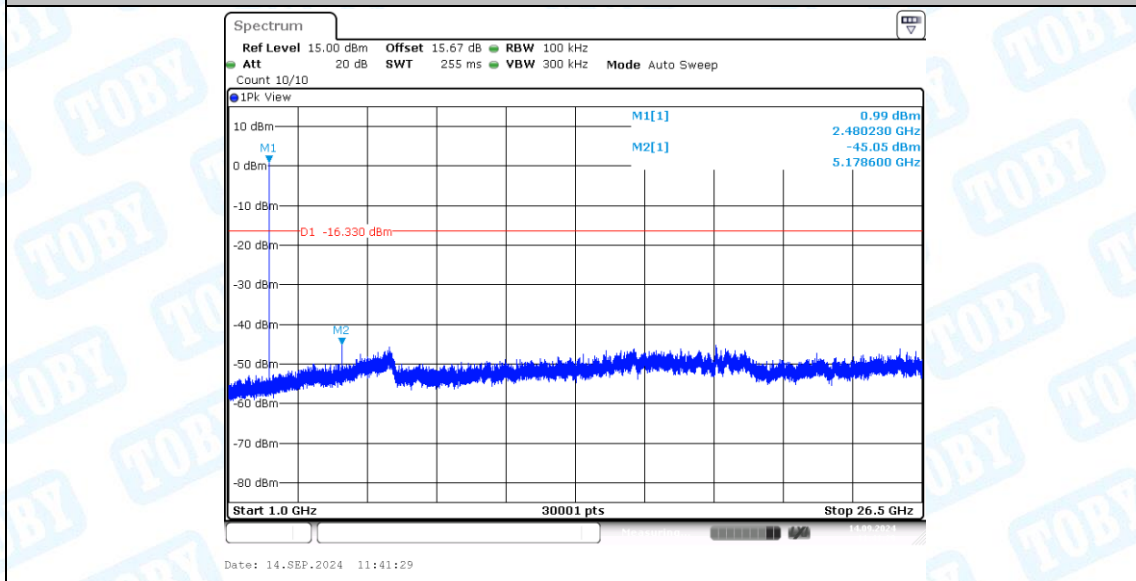
3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500

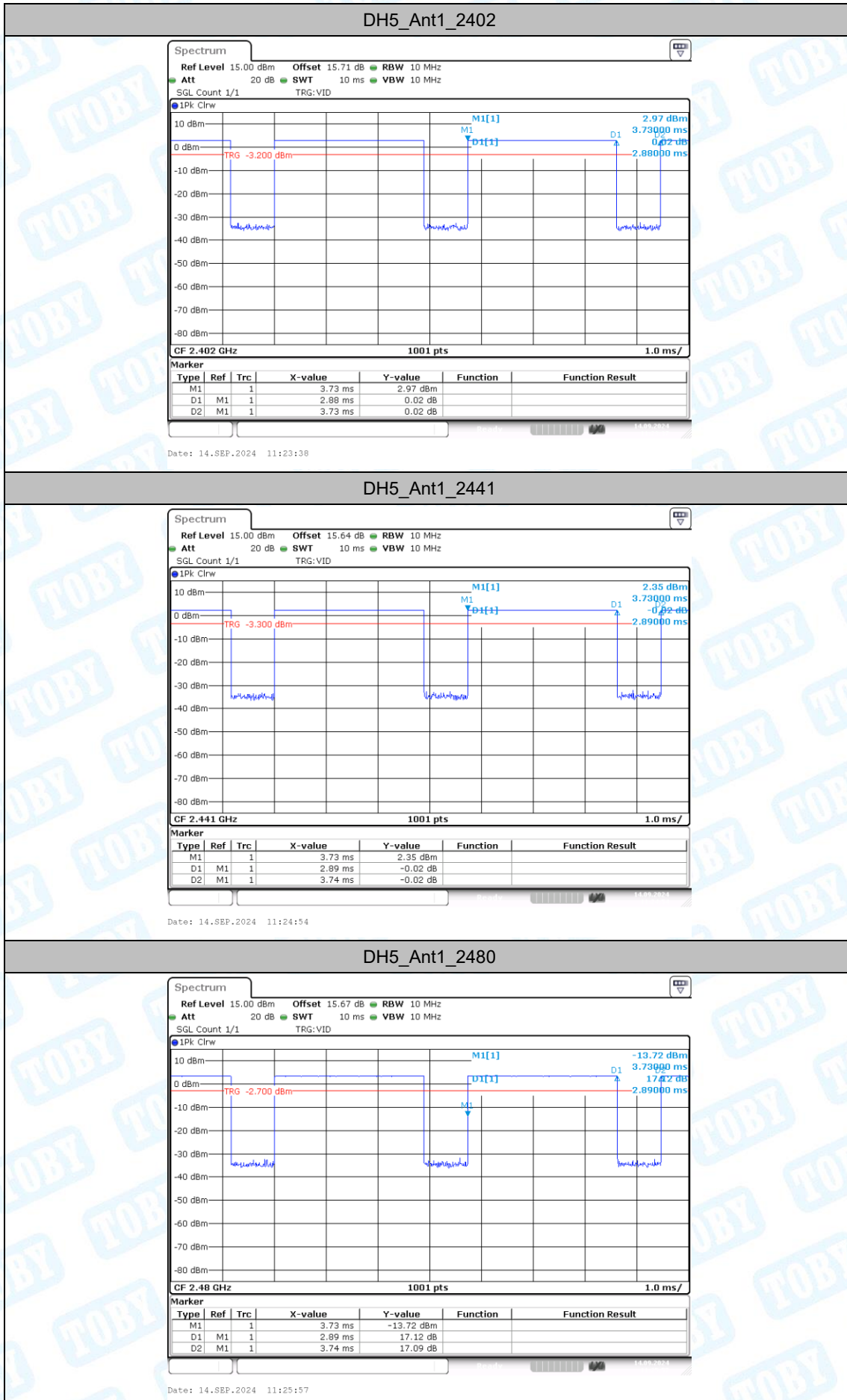


9. Duty Cycle

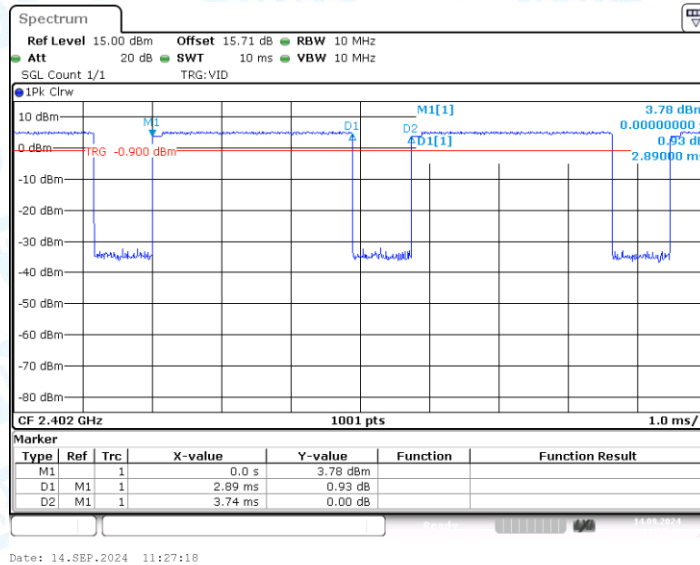
9.1. Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
DH5	Ant1	2402	2.88	3.73	77.21	---	---
		2441	2.89	3.74	77.27	---	---
		2480	2.89	3.74	77.27	---	---
2DH5	Ant1	2402	2.89	3.74	77.27	---	---
		2441	2.89	3.74	77.27	---	---
		2480	2.89	3.74	77.27	---	---
3DH5	Ant1	2402	2.89	3.74	77.27	---	---
		2441	2.90	3.74	77.54	---	---
		2480	2.89	3.74	77.27	---	---

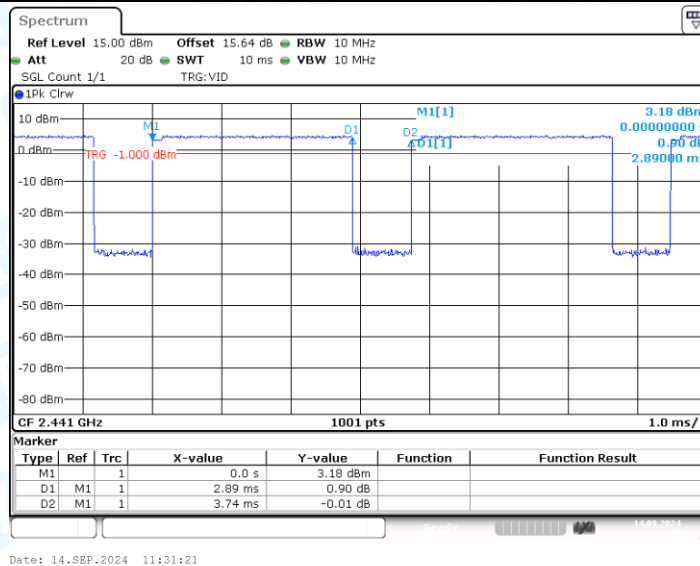
9.2. Test Graphs



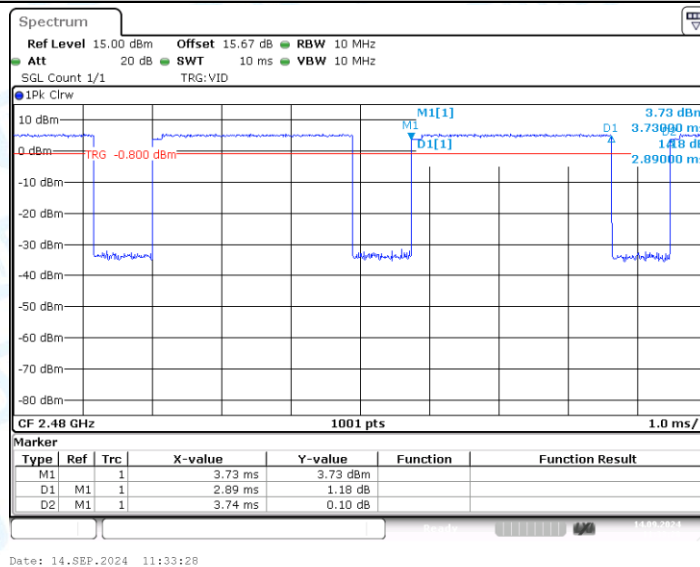
2DH5_Ant1_2402



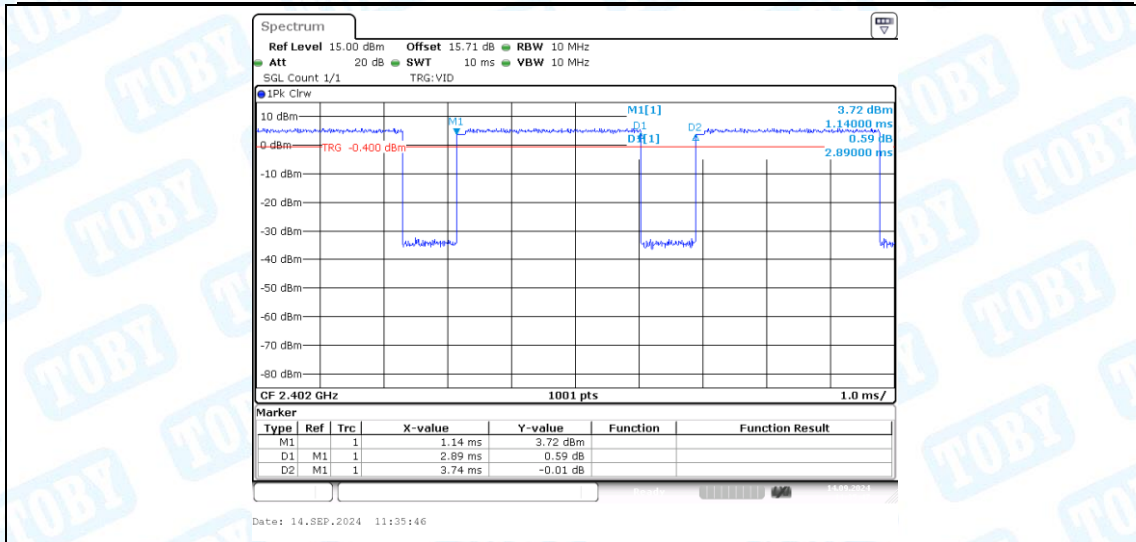
2DH5_Ant1_2441



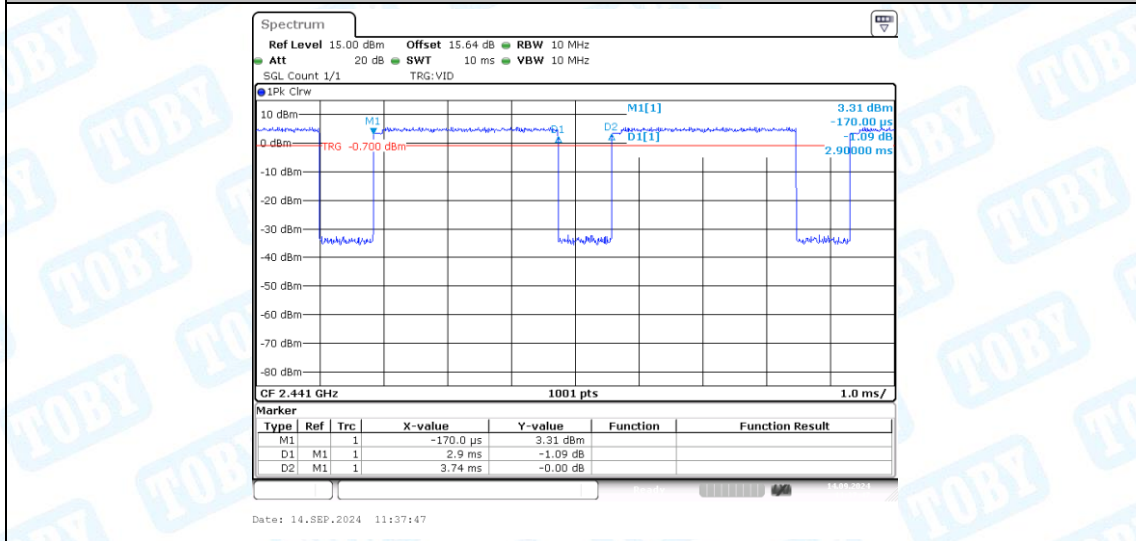
2DH5_Ant1_2480



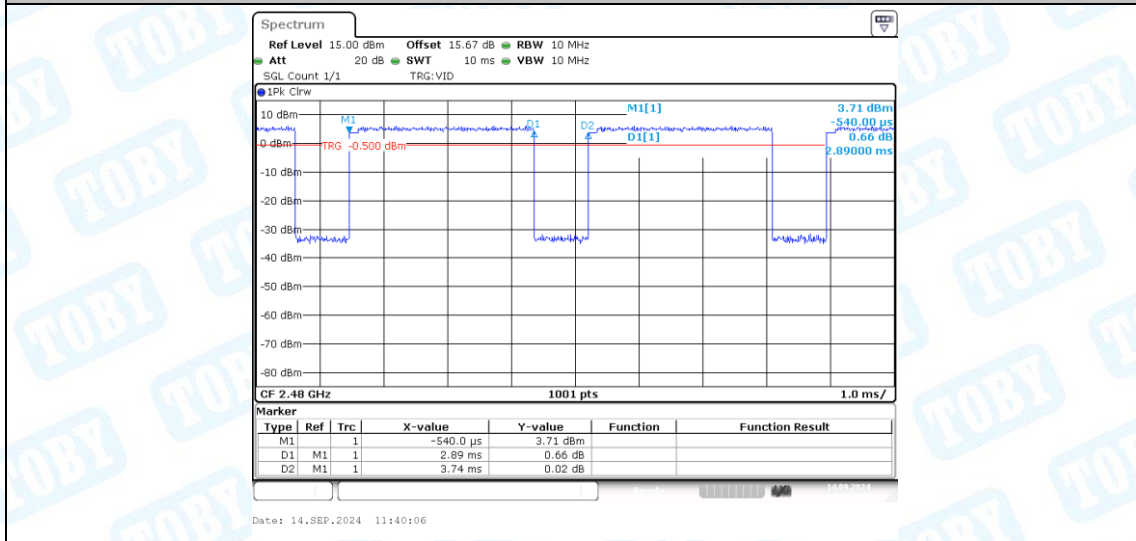
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



-----End of the report-----