

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

General Description of EUT	
Product Name:	Wireless Pico Projector
Test Model:	M1S
Sample ID:	202307-0061-2-2#
Environmental Conditions	
Temperature:	24°C
Relative Humidity:	52%
Test Voltage:	DC 7.6V
Test Engineer:	Zhangchenxi
Note: For a more detailed features description, please refer to the report TBR-C-202307-0061-21	

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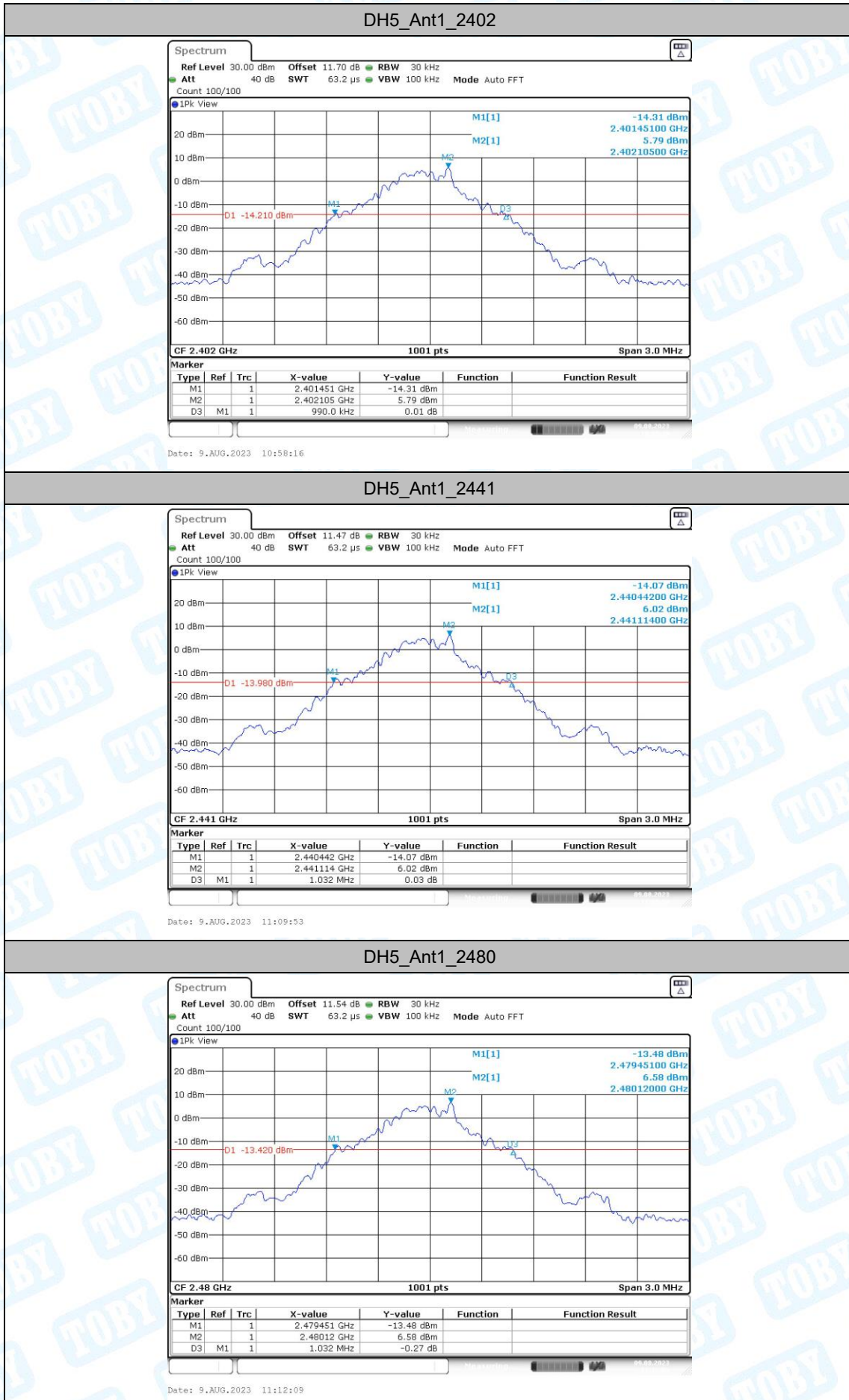
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1. 20dB Emission Bandwidth

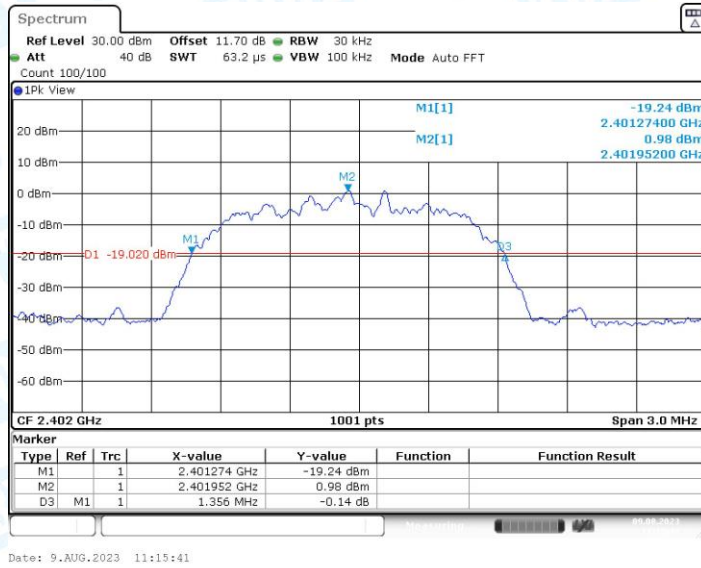
1.1. Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.99	---	---
		2441	1.03	---	---
		2480	1.03	---	---
2DH5	Ant1	2402	1.36	---	---
		2441	1.36	---	---
		2480	1.36	---	---
3DH5	Ant1	2402	1.33	---	---
		2441	1.33	---	---
		2480	1.33	---	---

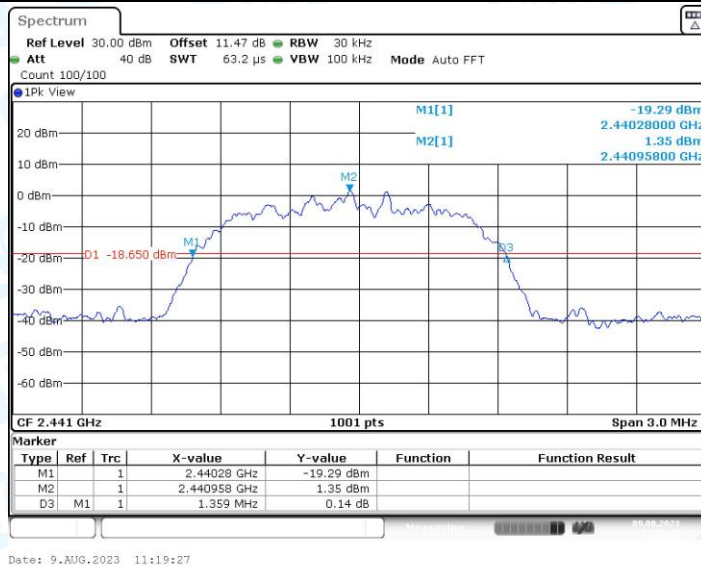
1.2. Test Graphs



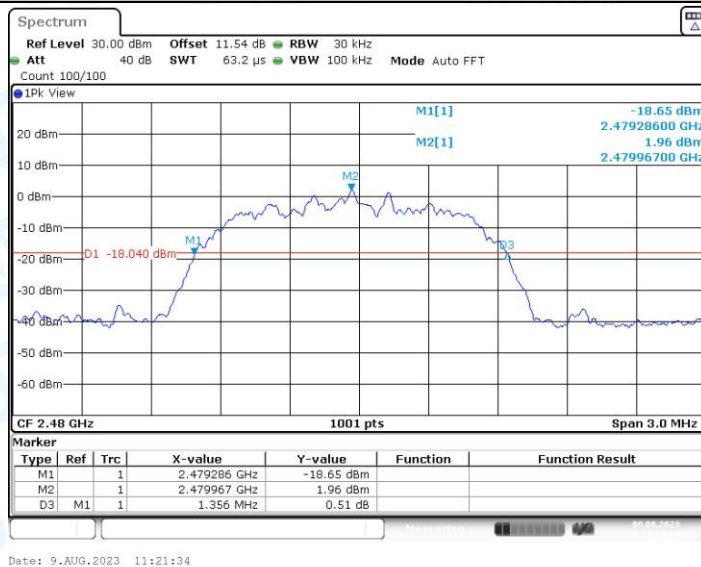
2DH5_Ant1_2402



2DH5_Ant1_2441



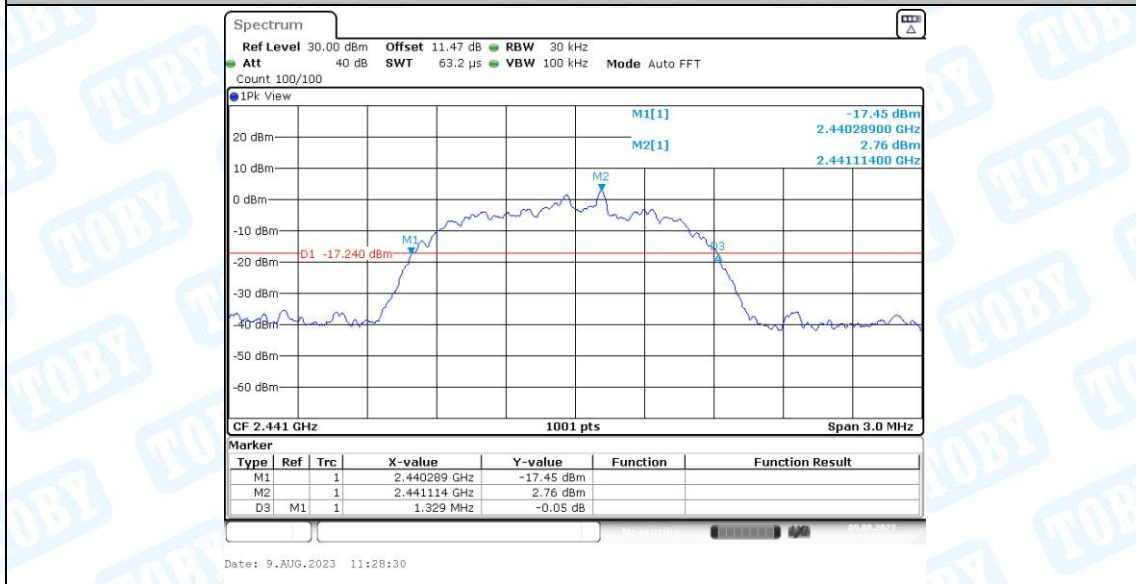
2DH5_Ant1_2480



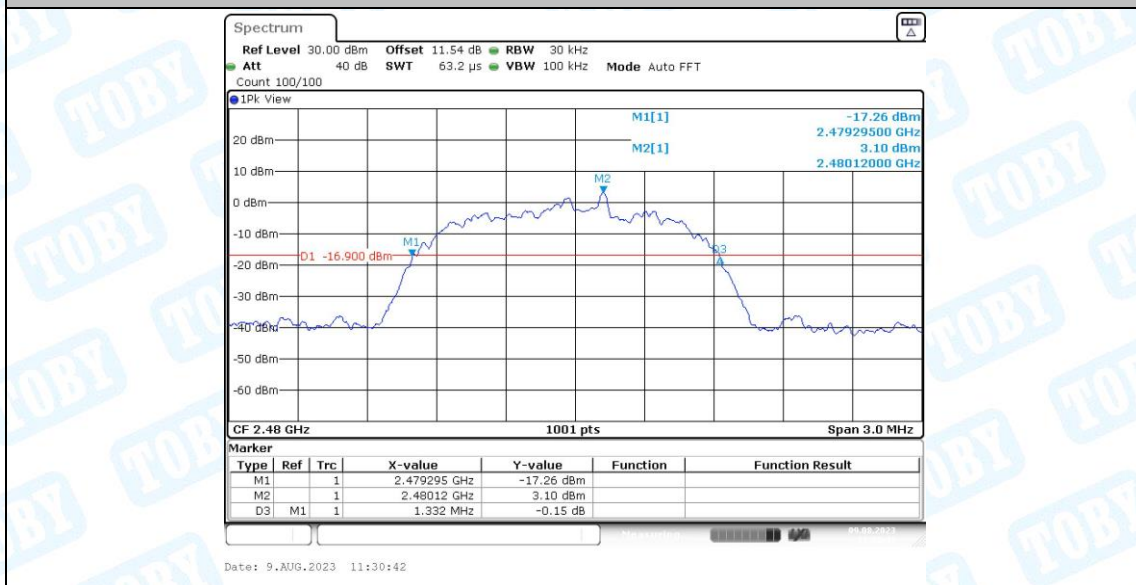
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



2. Occupied Channel Bandwidth

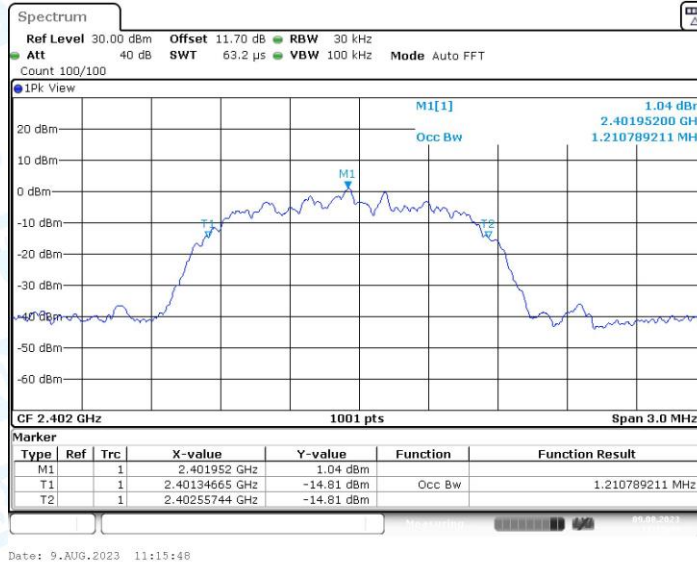
2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.893	2401.5055	2402.3986	---	---
		2441	0.932	2440.4905	2441.4226	---	---
		2480	0.896	2479.5205	2480.4166	---	---
2DH5	Ant1	2402	1.211	2401.3467	2402.5574	---	---
		2441	1.214	2440.3497	2441.5634	---	---
		2480	1.211	2479.3586	2480.5694	---	---
3DH5	Ant1	2402	1.211	2401.3407	2402.5514	---	---
		2441	1.217	2440.3437	2441.5604	---	---
		2480	1.217	2479.3526	2480.5694	---	---

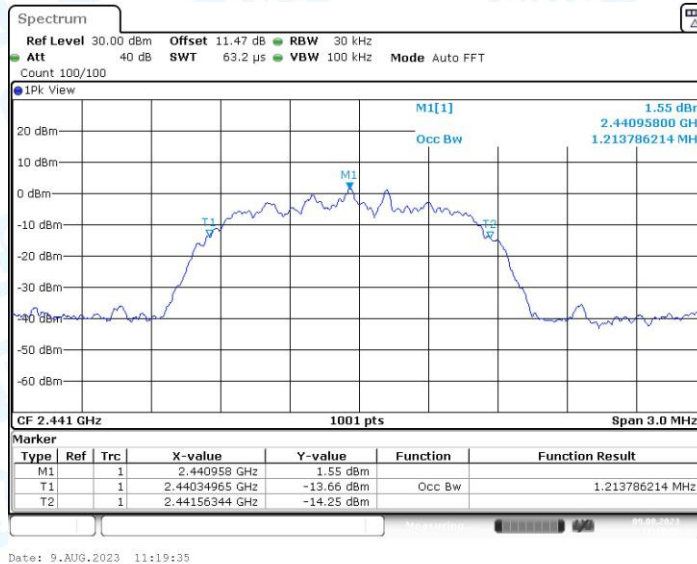
2.2. Test Graphs



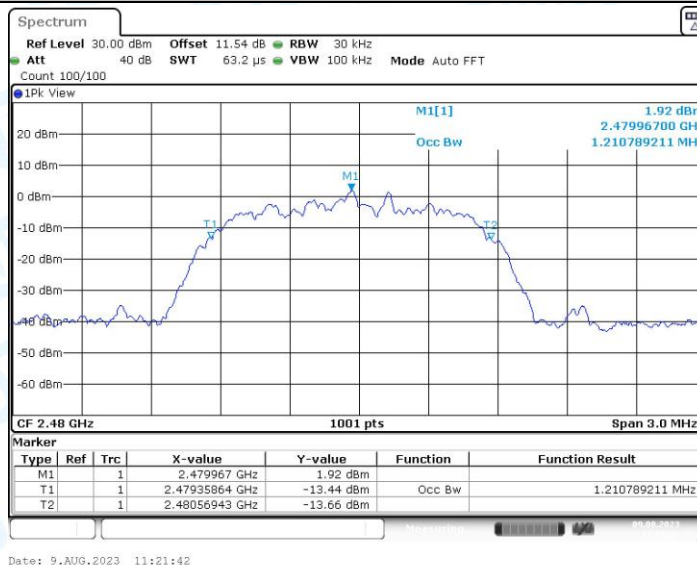
2DH5_Ant1_2402



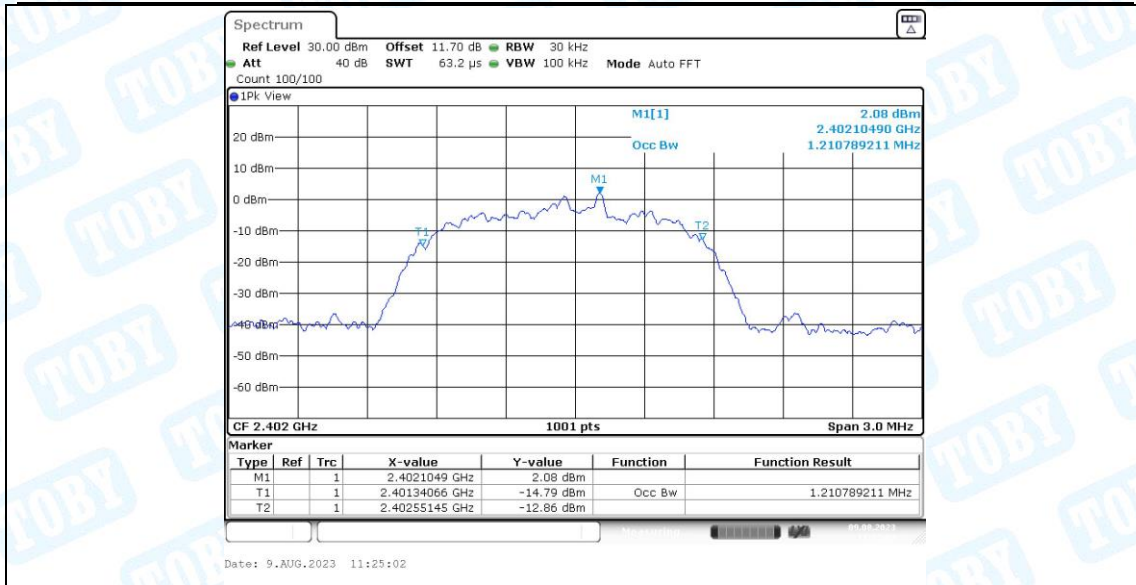
2DH5_Ant1_2441



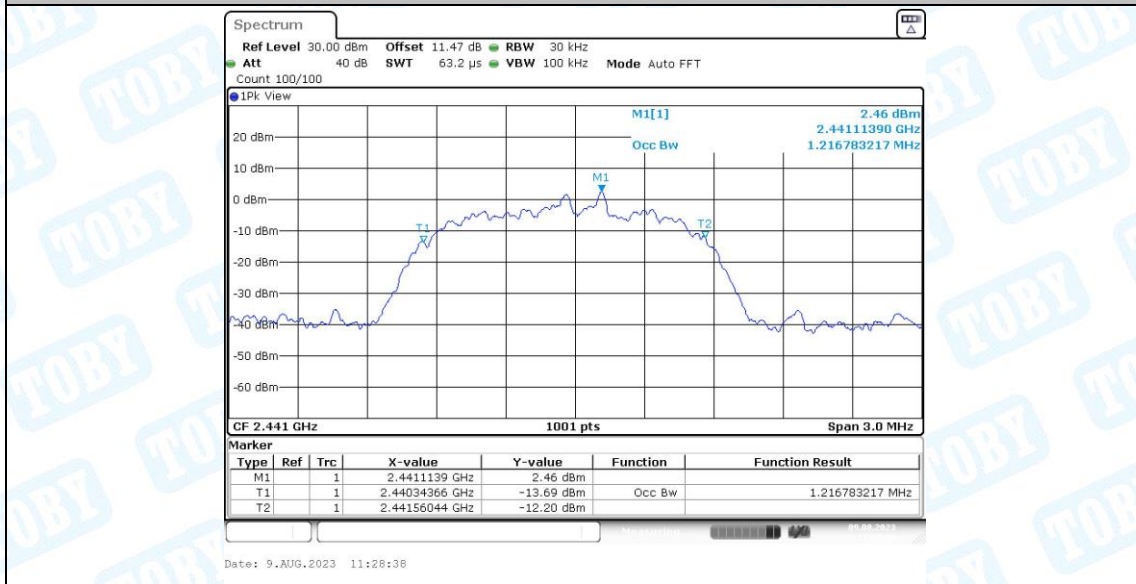
2DH5_Ant1_2480



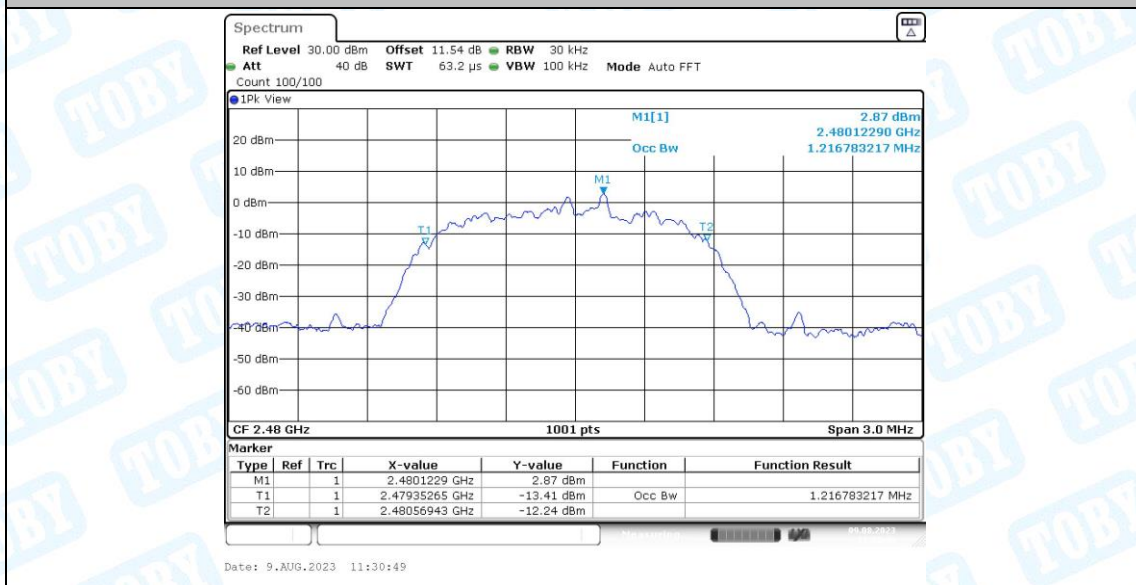
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



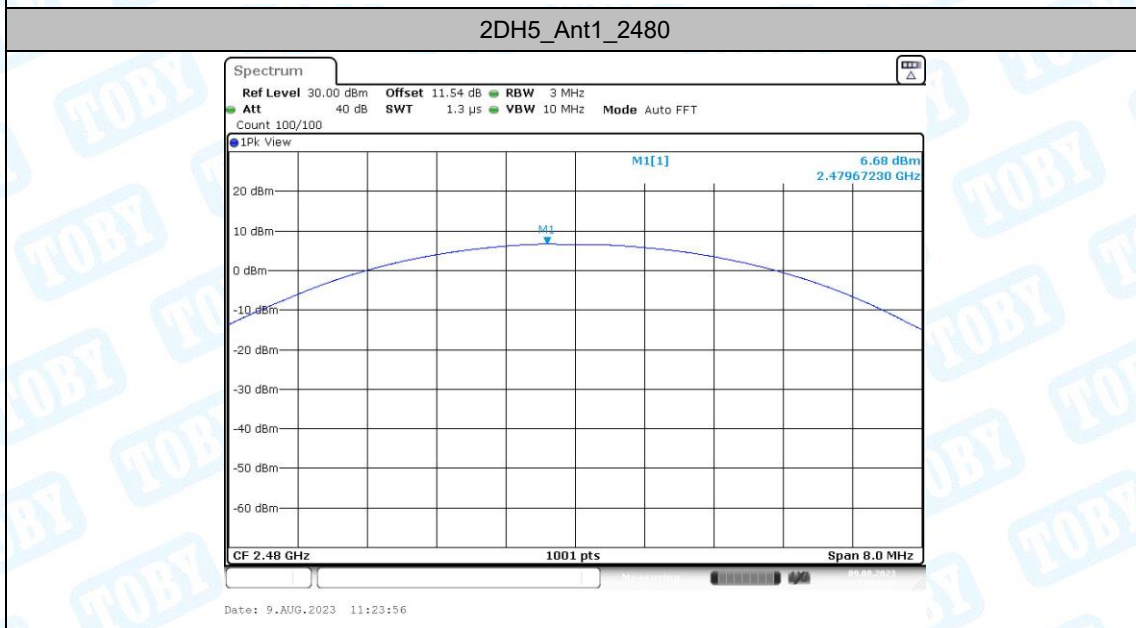
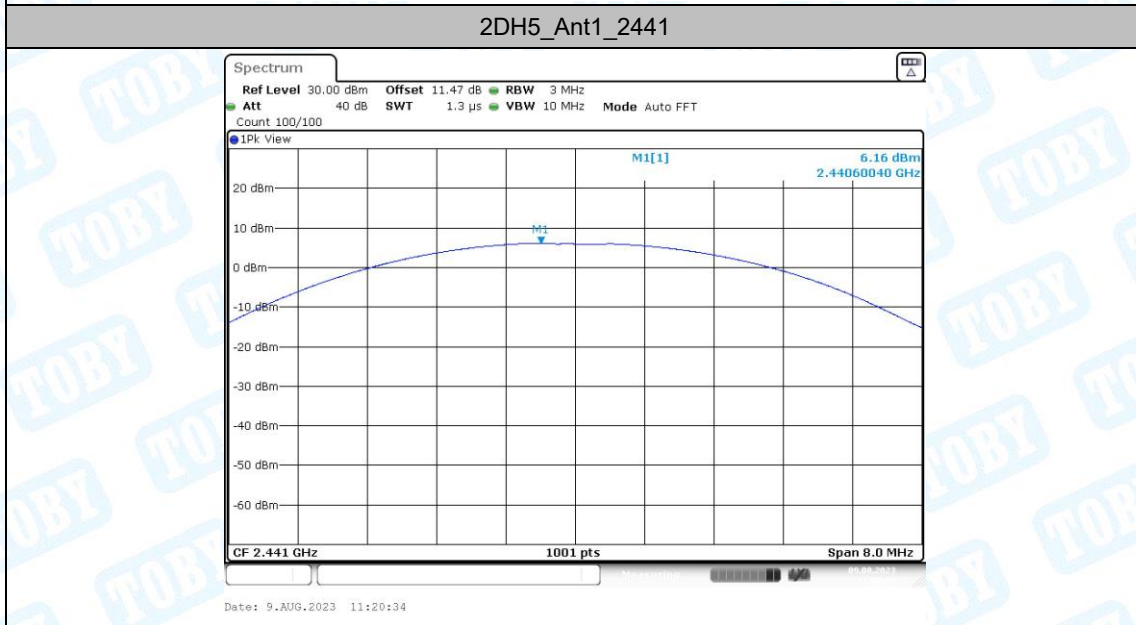
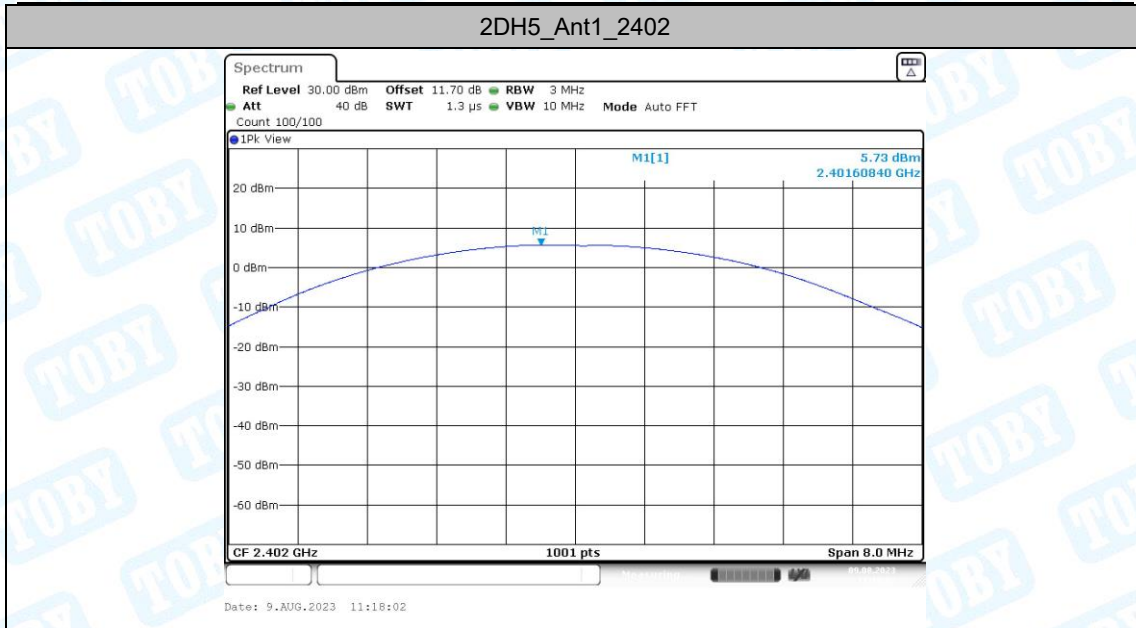
3. Maximum conducted output power

3.1. Test Result

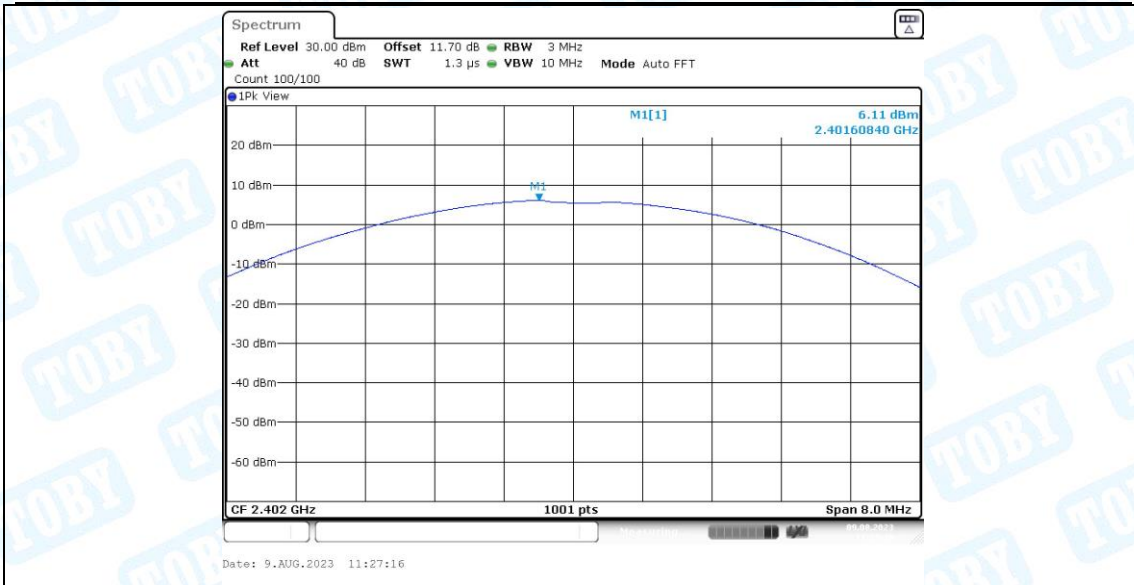
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	7.28	≤30	PASS
		2441	7.66	≤20.97	PASS
		2480	8.08	≤20.97	PASS
2DH5	Ant1	2402	5.73	≤20.97	PASS
		2441	6.16	≤20.97	PASS
		2480	6.68	≤20.97	PASS
3DH5	Ant1	2402	6.11	≤20.97	PASS
		2441	6.34	≤20.97	PASS
		2480	6.91	≤20.97	PASS

3.2. Test Graphs

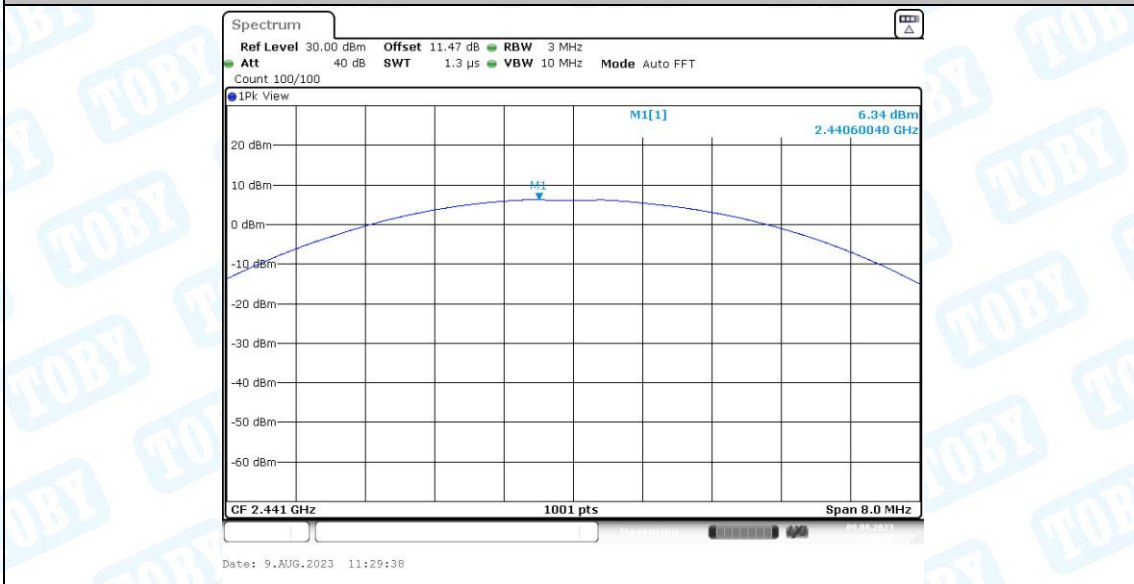




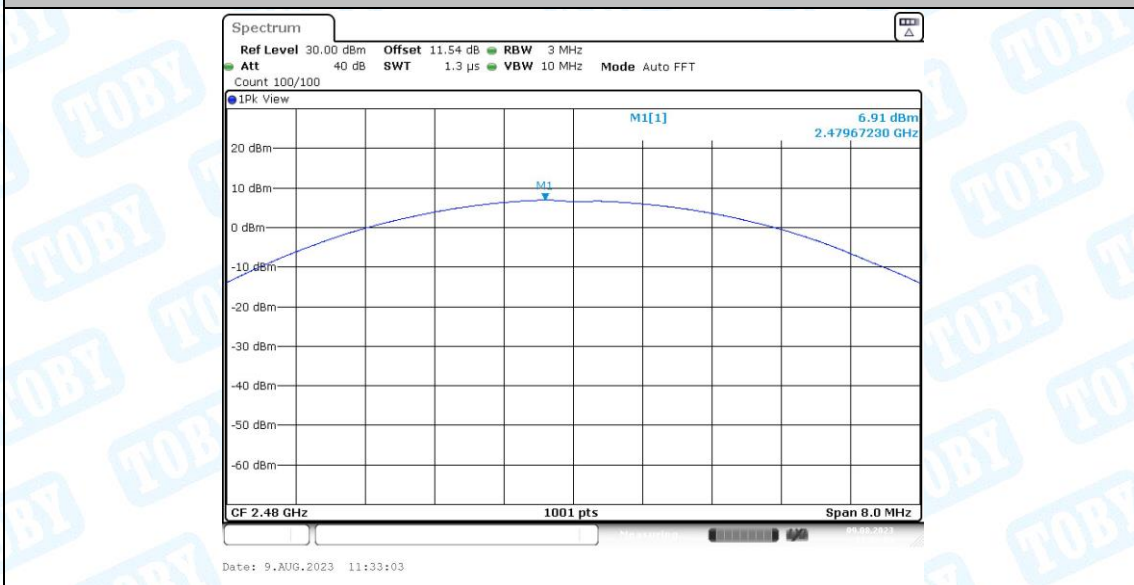
3DH5_Ant1_2402



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	≥0.880	PASS
2DH5	Ant1	Hop	1.258	≥0.880	PASS
3DH5	Ant1	Hop	1.006	≥0.820	PASS

4.2. Test Graphs

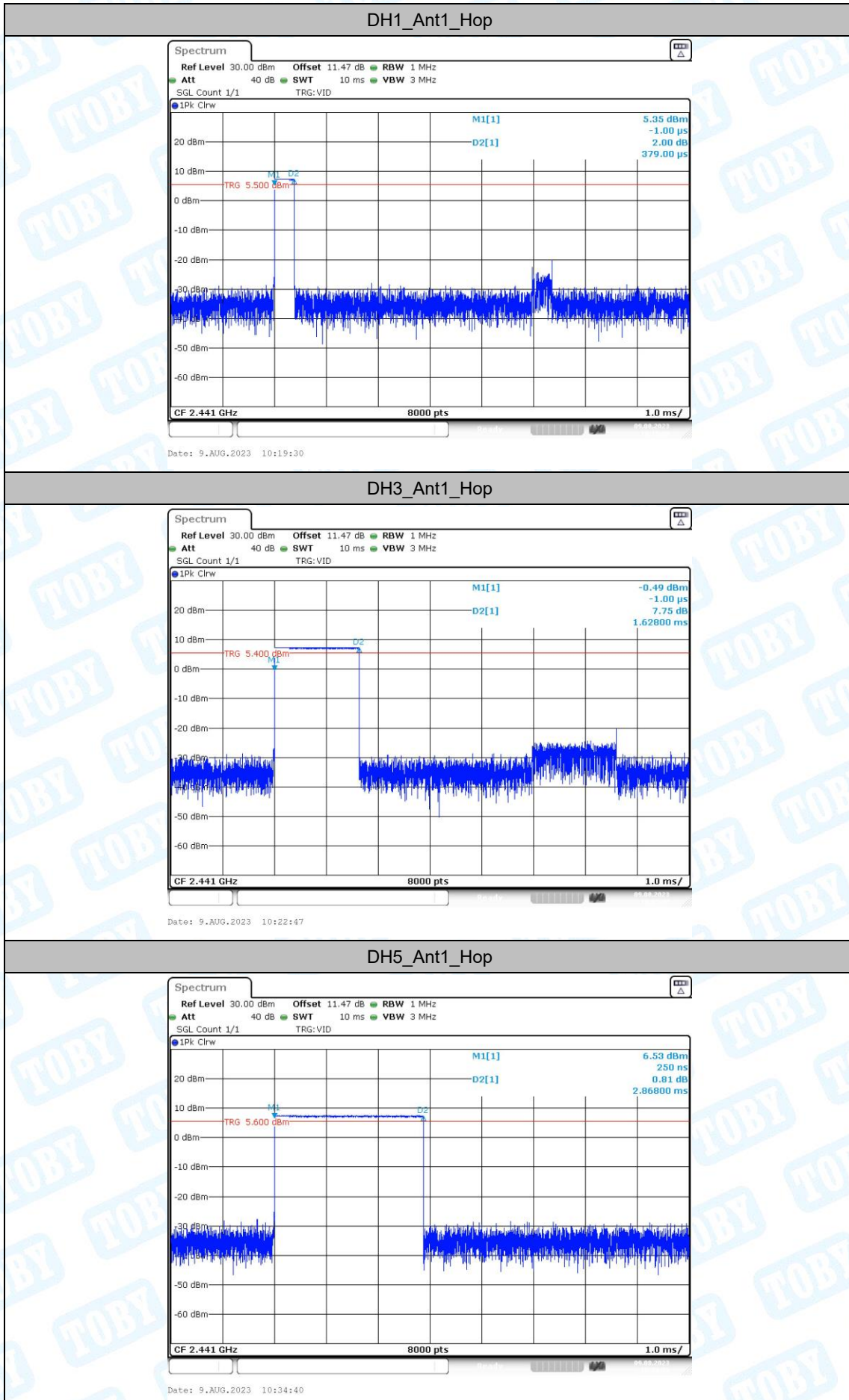


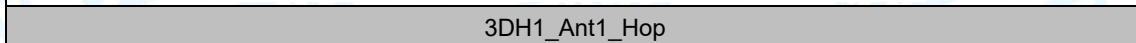
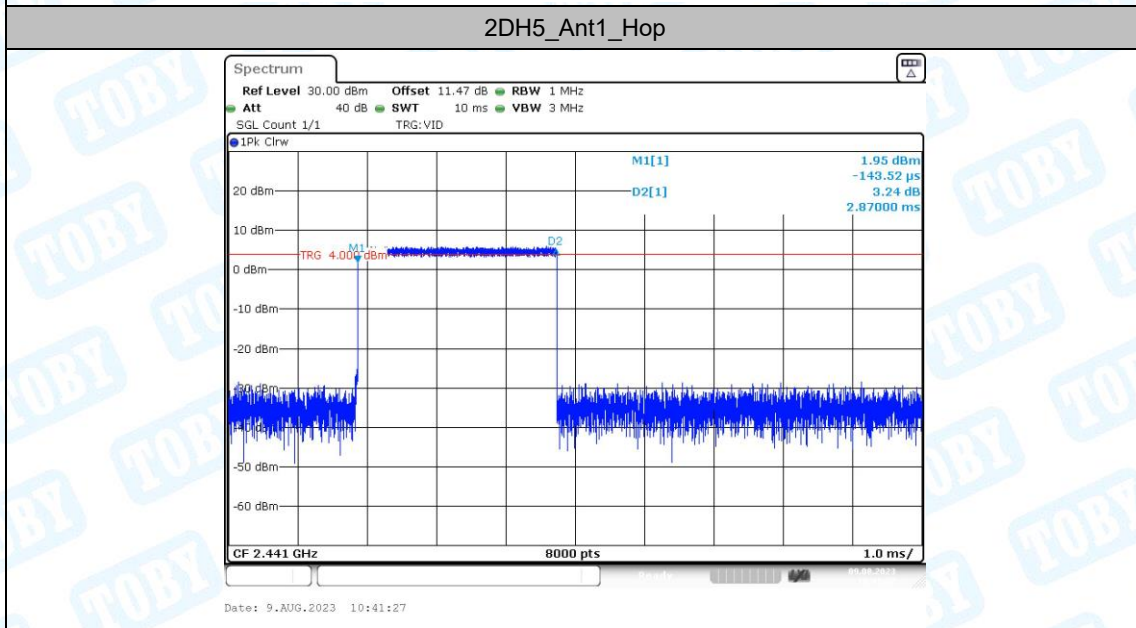
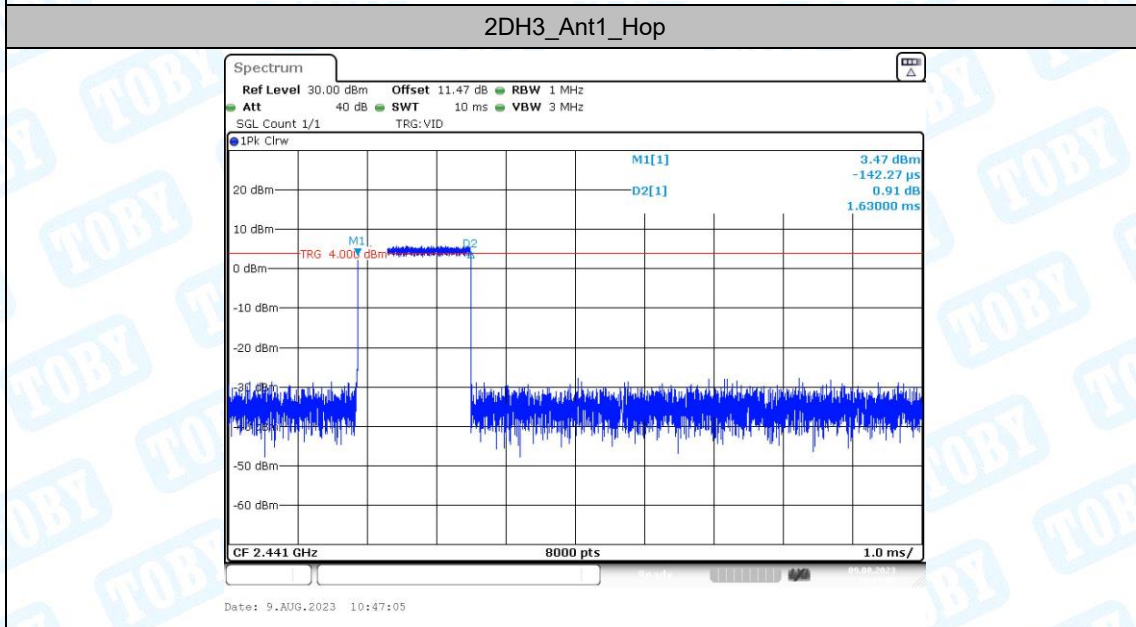
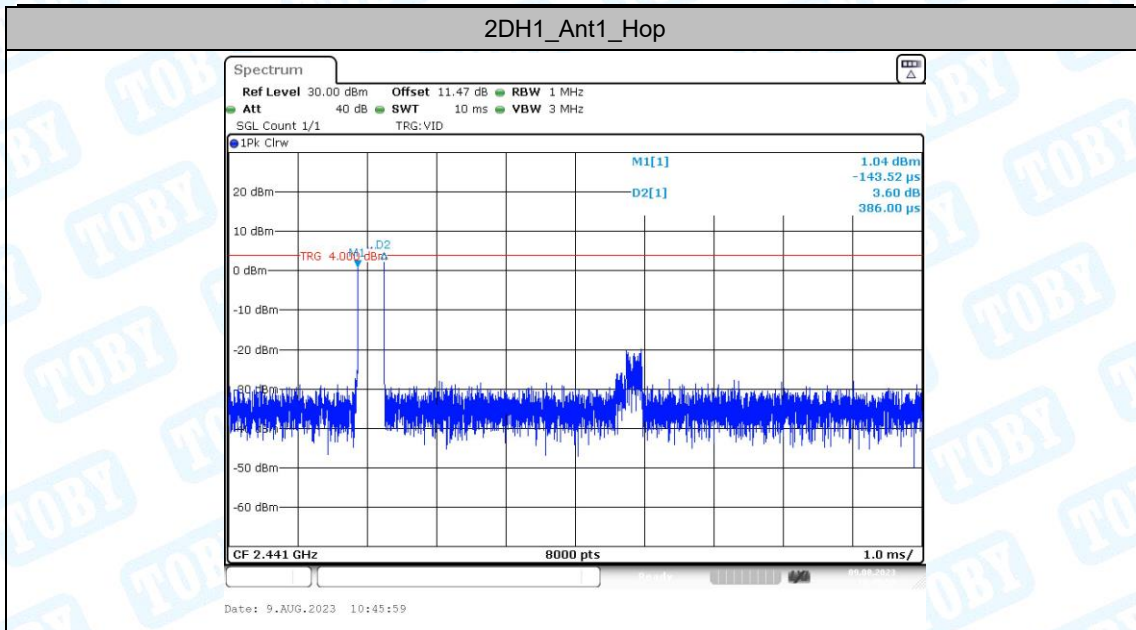
5. Time of occupancy

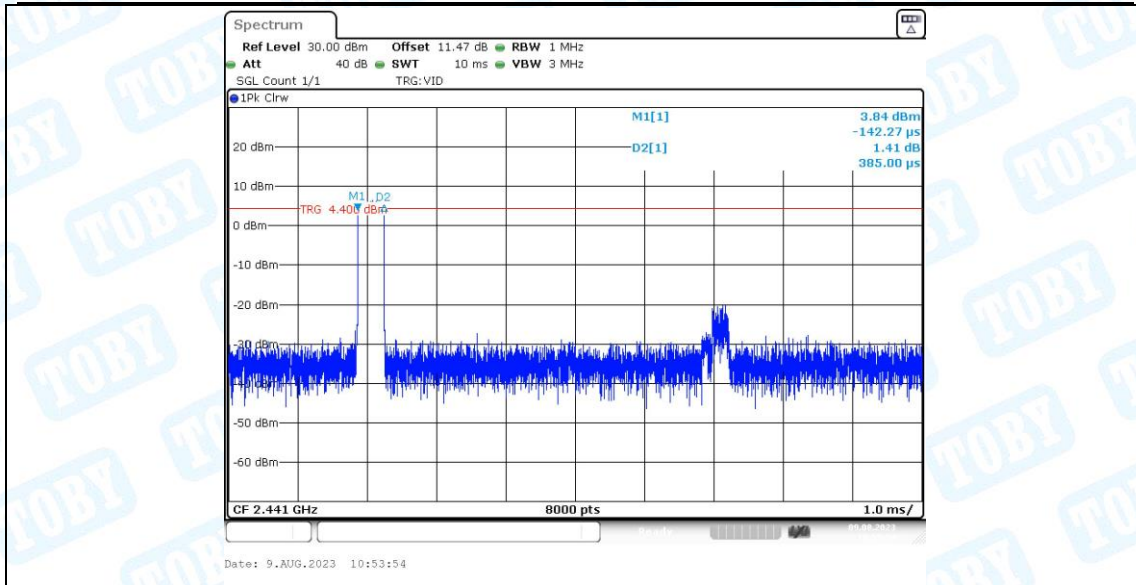
5.1. Test Result

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	160	0.26	≤0.4	PASS
DH5	Ant1	Hop	2.868	106.67	0.306	≤0.4	PASS
2DH1	Ant1	Hop	0.386	320	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.630	160	0.261	≤0.4	PASS
2DH5	Ant1	Hop	2.870	106.67	0.306	≤0.4	PASS
3DH1	Ant1	Hop	0.385	320	0.123	≤0.4	PASS
3DH3	Ant1	Hop	1.629	160	0.261	≤0.4	PASS
3DH5	Ant1	Hop	2.873	106.67	0.306	≤0.4	PASS

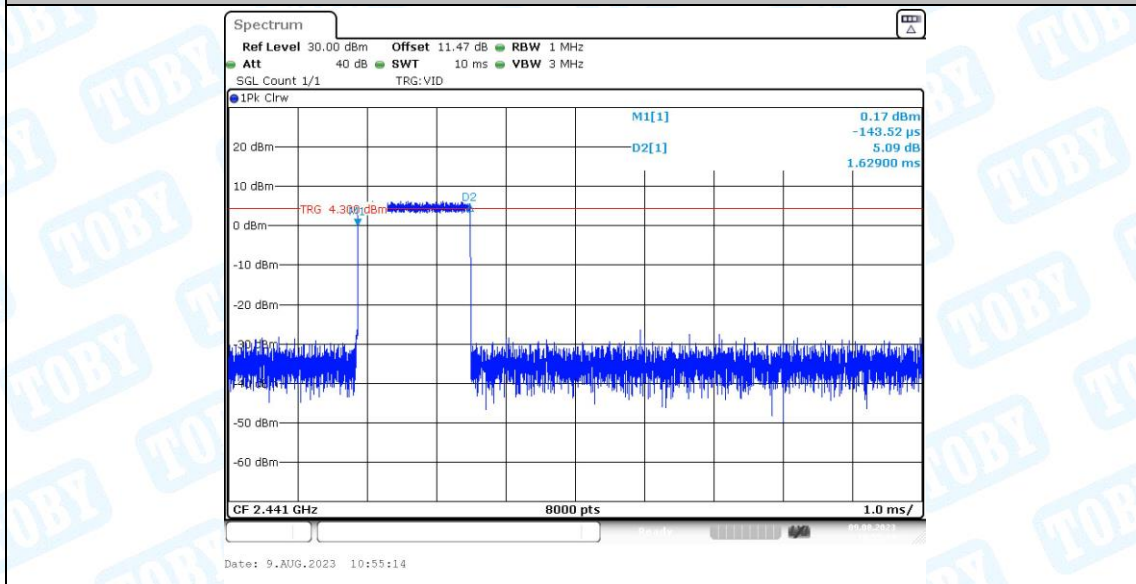
5.2. Test Graphs



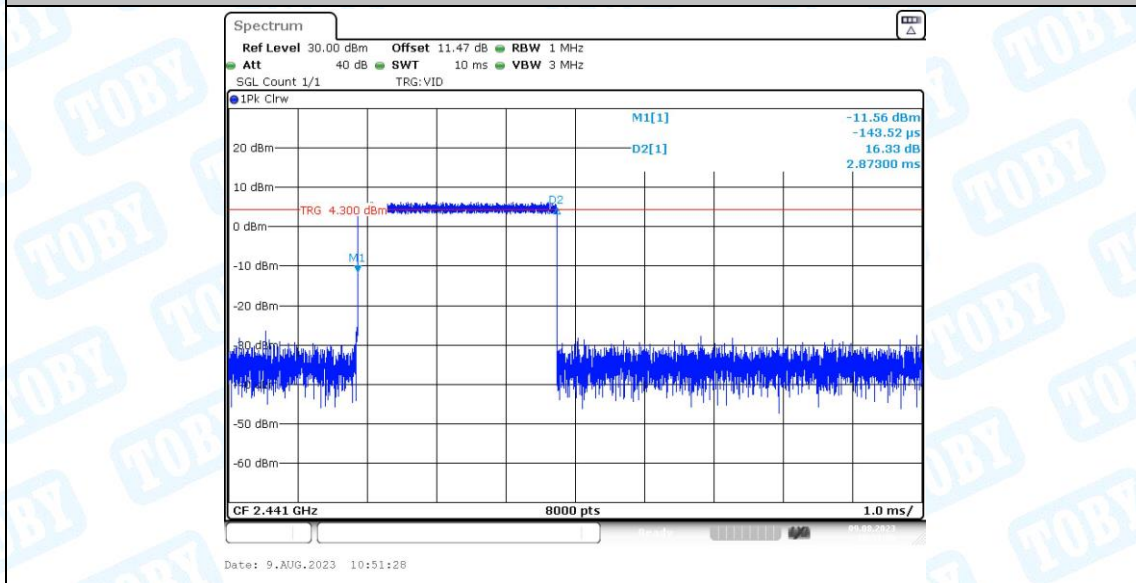




3DH3_Ant1_Hop



3DH5_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

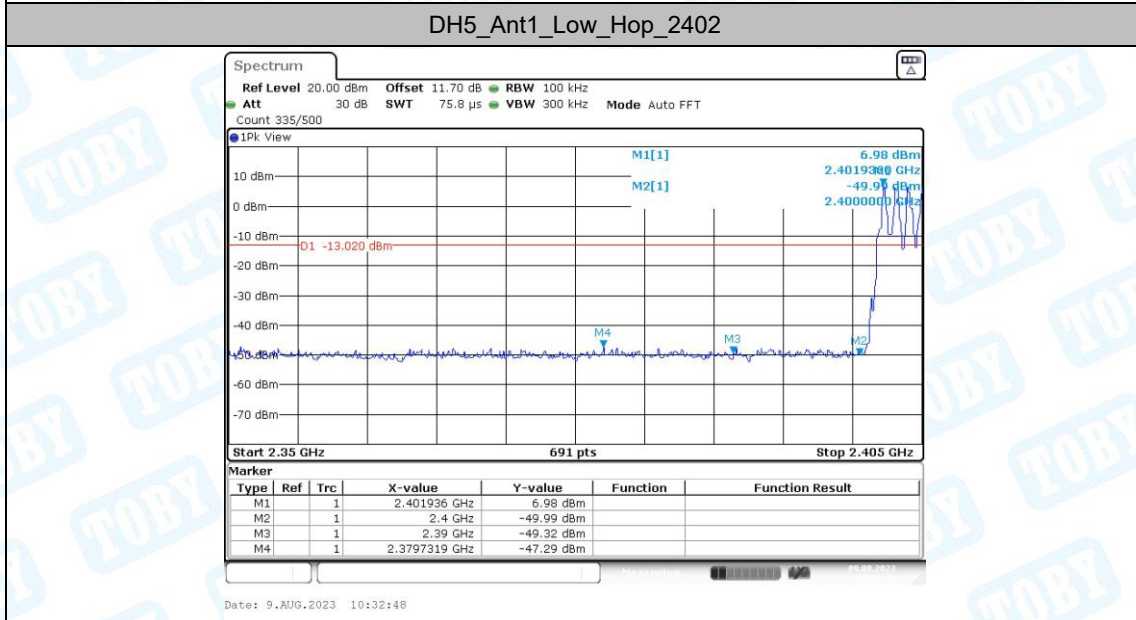
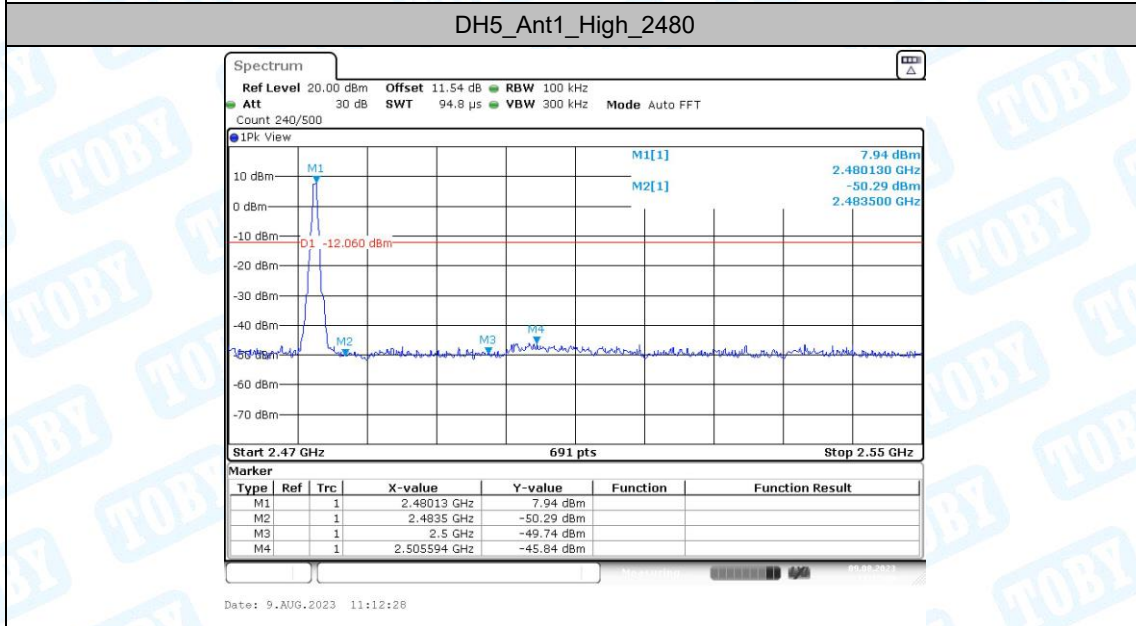
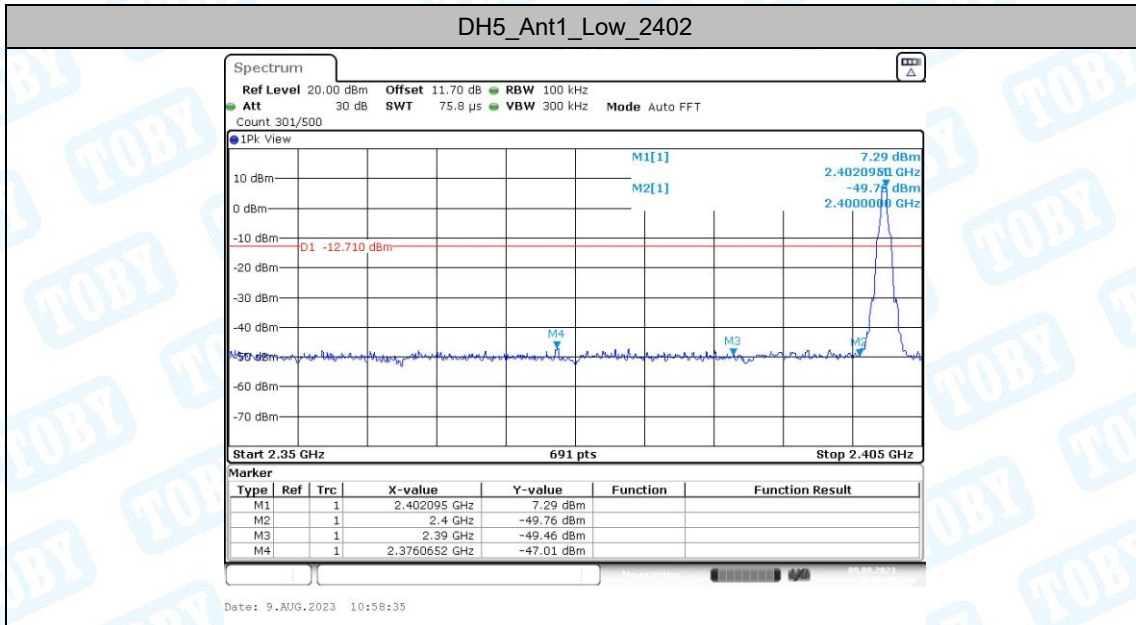


7. Band edge measurements

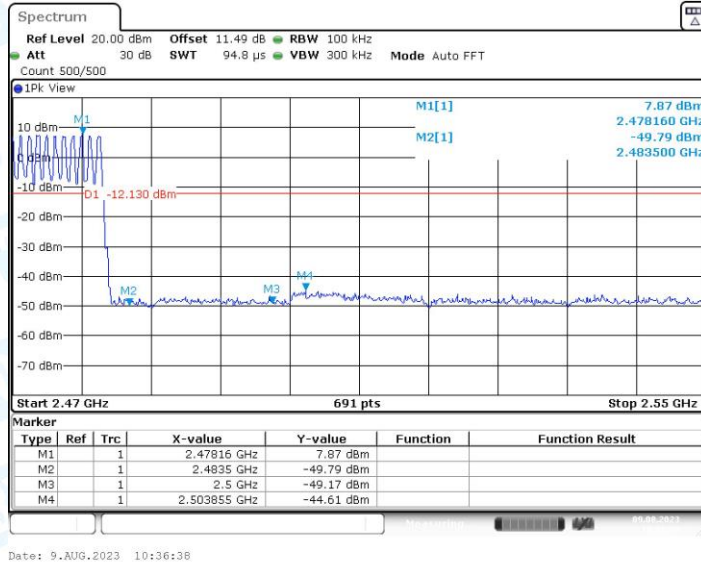
7.1. Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	7.29	-47.01	≤-12.71	PASS
		High	2480	7.94	-45.84	≤-12.06	PASS
		Low	Hop_2402	6.98	-47.29	≤-13.02	PASS
		High	Hop_2480	7.87	-44.61	≤-12.13	PASS
2DH5	Ant1	Low	2402	3.46	-46.77	≤-16.54	PASS
		High	2480	4.31	-44.54	≤-15.69	PASS
		Low	Hop_2402	2.91	-47.46	≤-17.09	PASS
		High	Hop_2480	3.41	-45.87	≤-16.59	PASS
3DH5	Ant1	Low	2402	3.72	-46.96	≤-16.28	PASS
		High	2480	4.50	-45.14	≤-15.5	PASS
		Low	Hop_2402	1.55	-46.8	≤-18.45	PASS
		High	Hop_2480	2.06	-45.07	≤-17.94	PASS

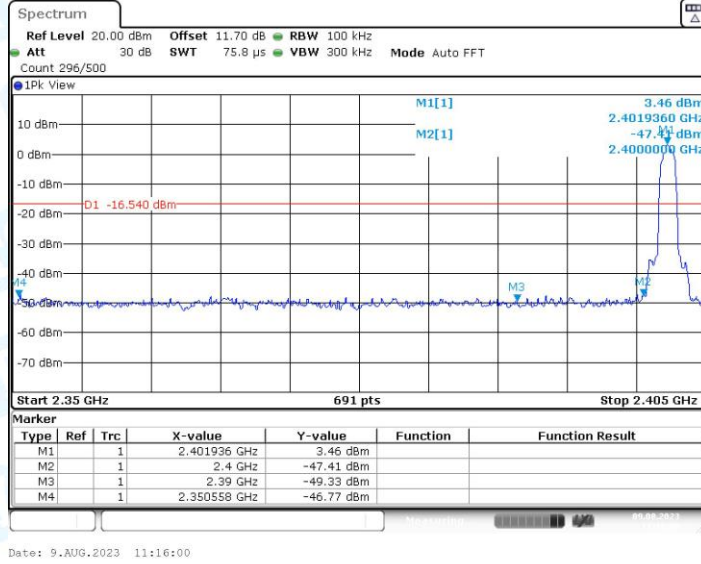
7.2. Test Graphs



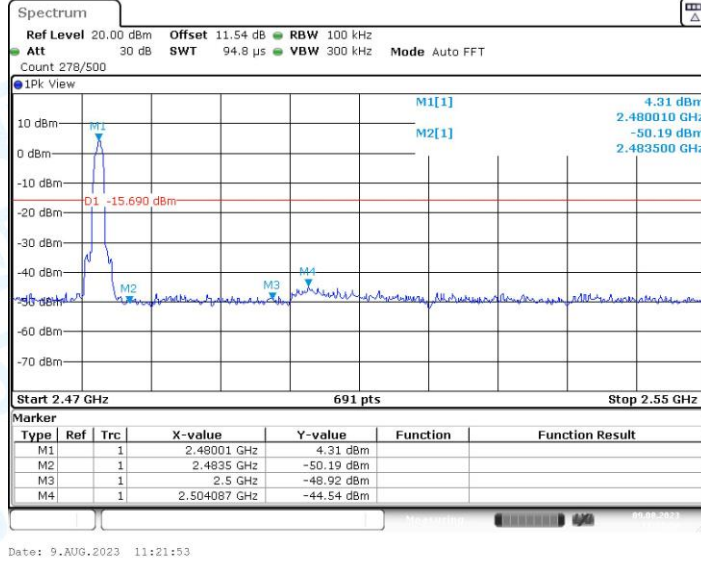
DH5_Ant1_High_Hop_2480



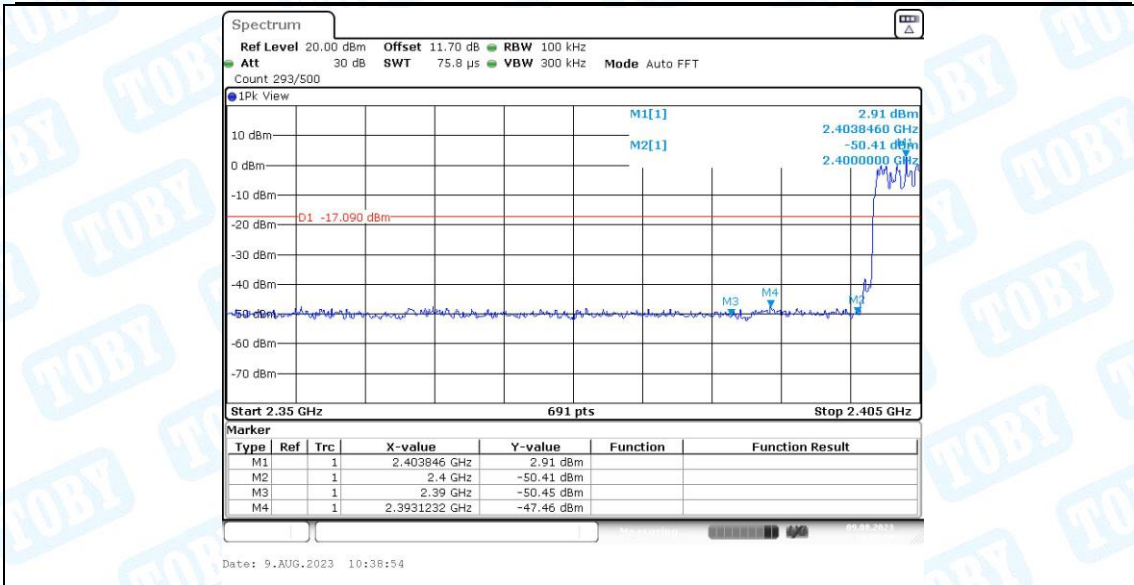
2DH5_Ant1_Low_2402



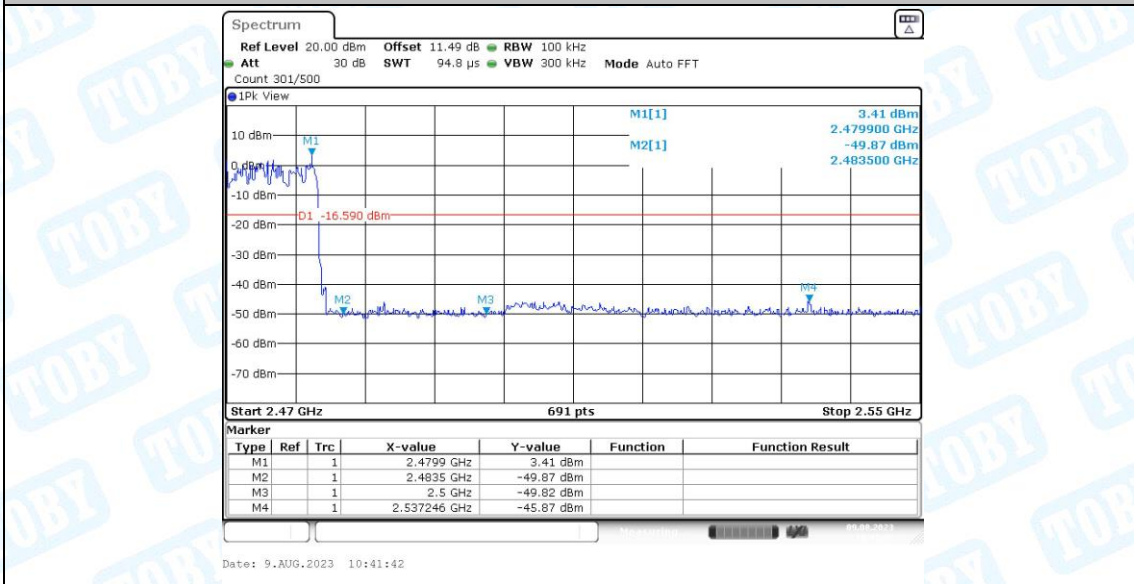
2DH5_Ant1_High_2480



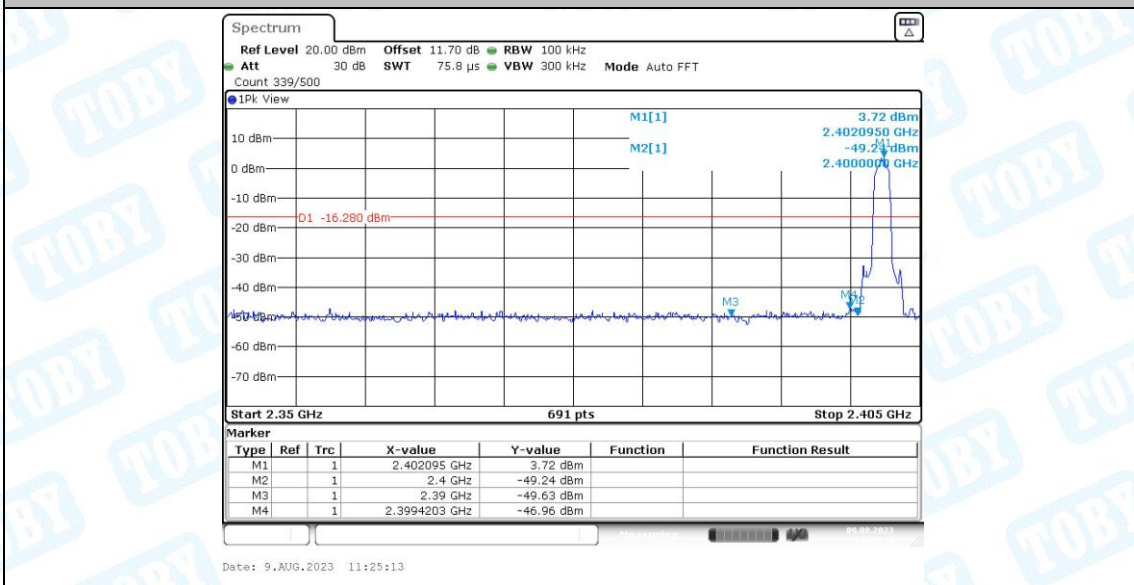
2DH5_Ant1_Low_Hop_2402



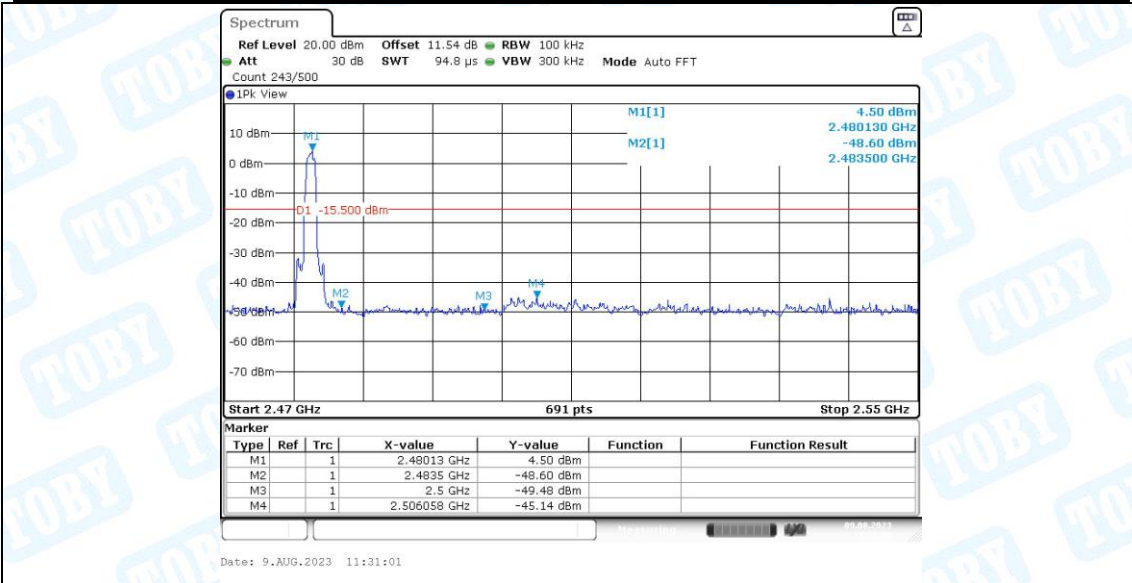
2DH5_Ant1_High_Hop_2480



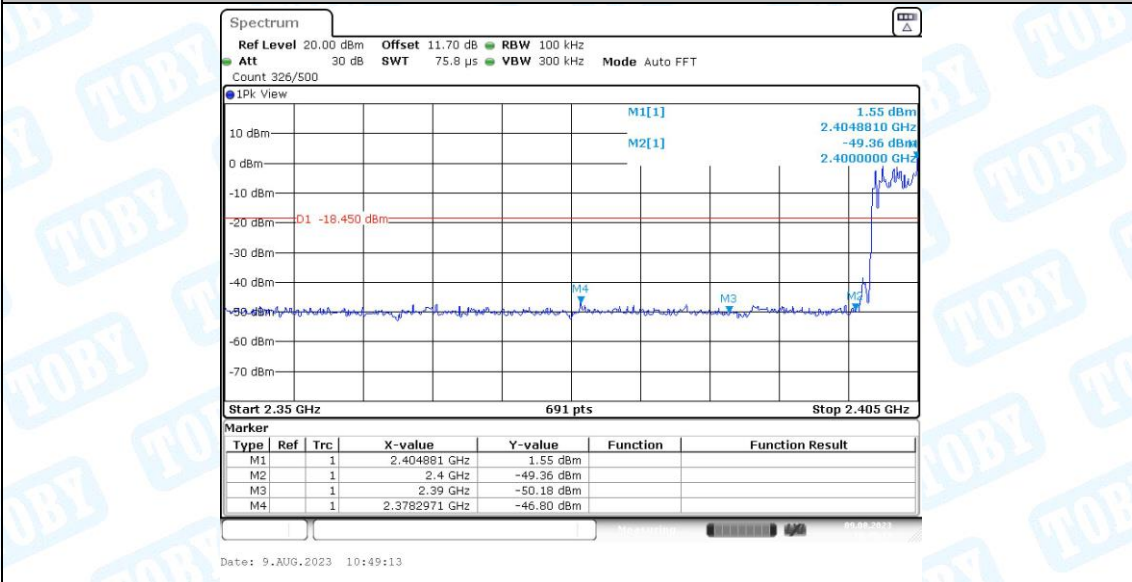
3DH5_Ant1_Low_2402



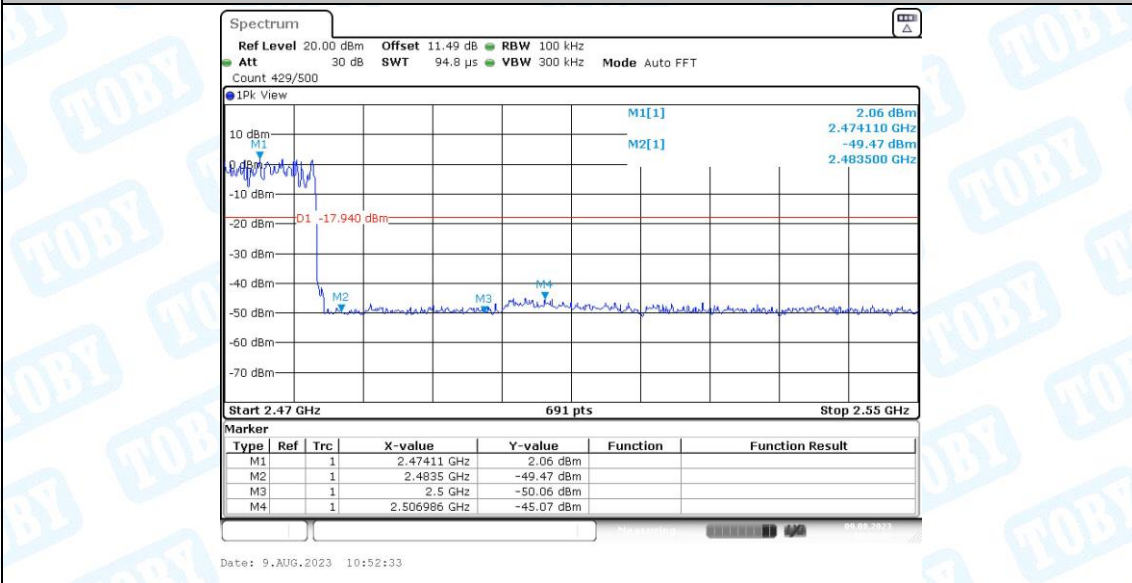
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

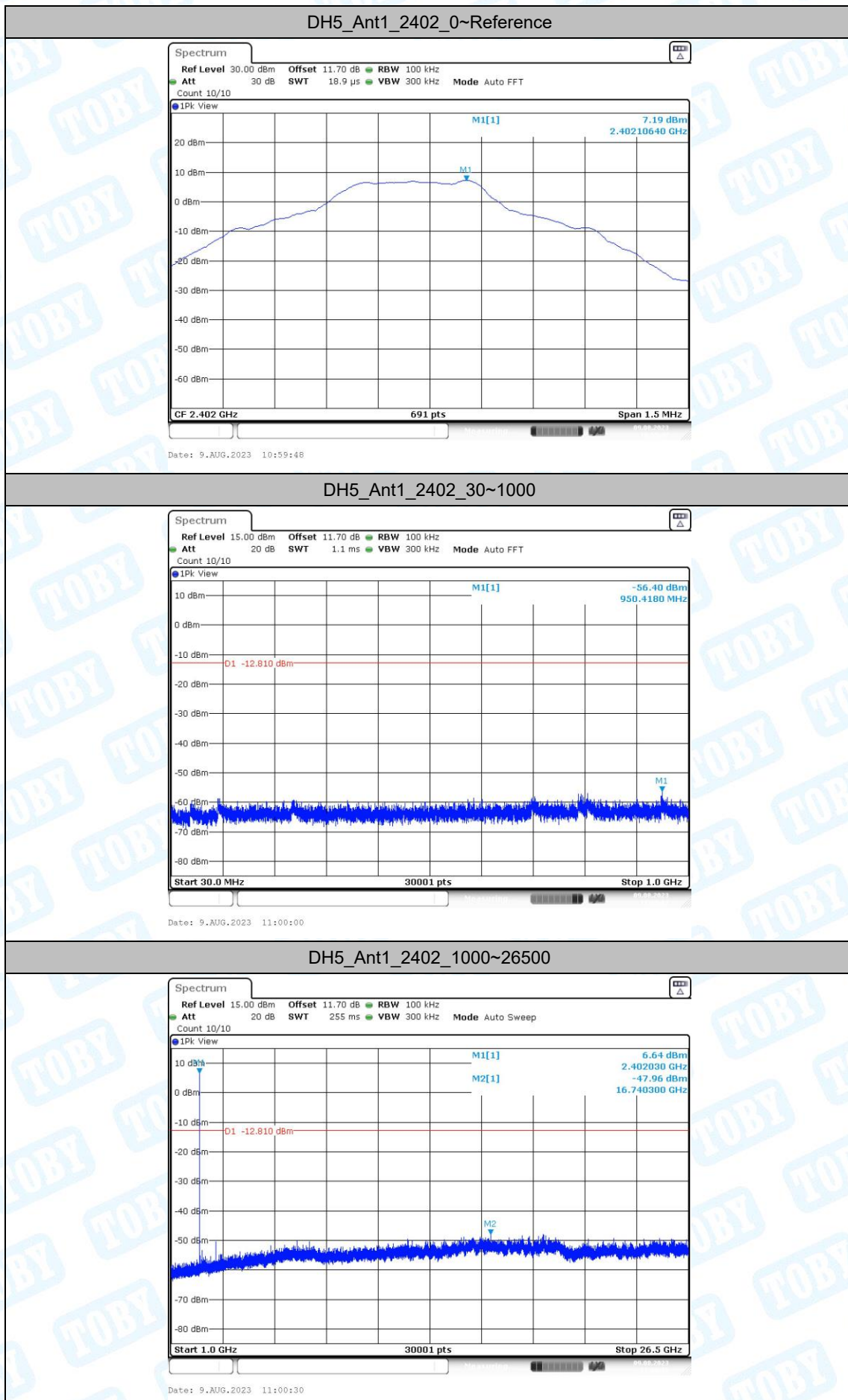


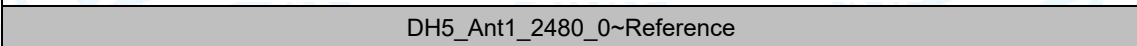
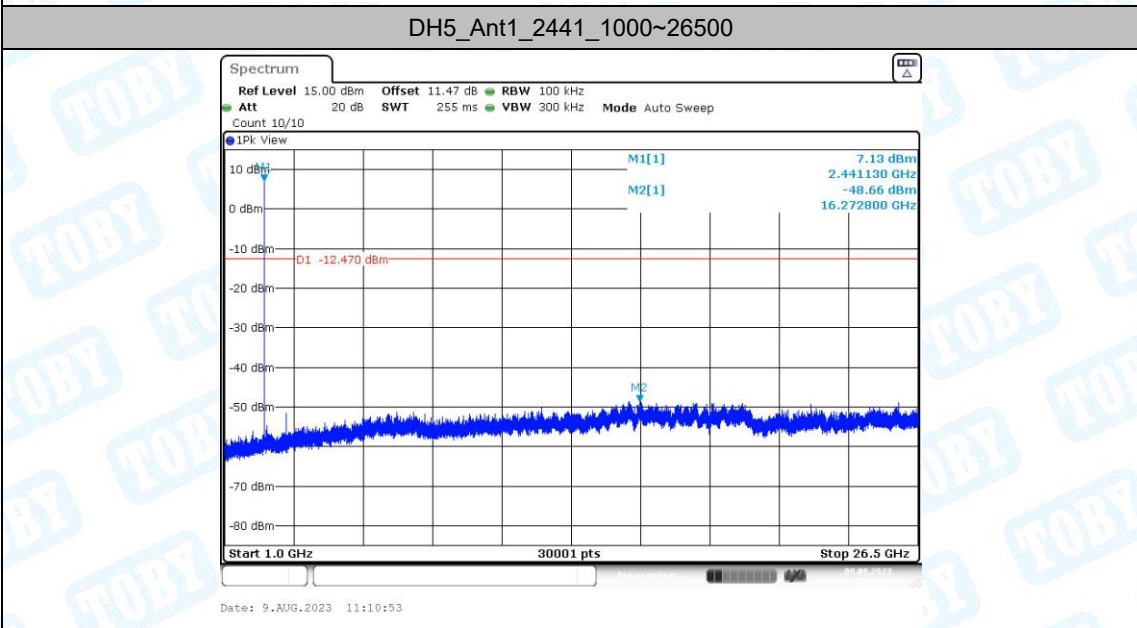
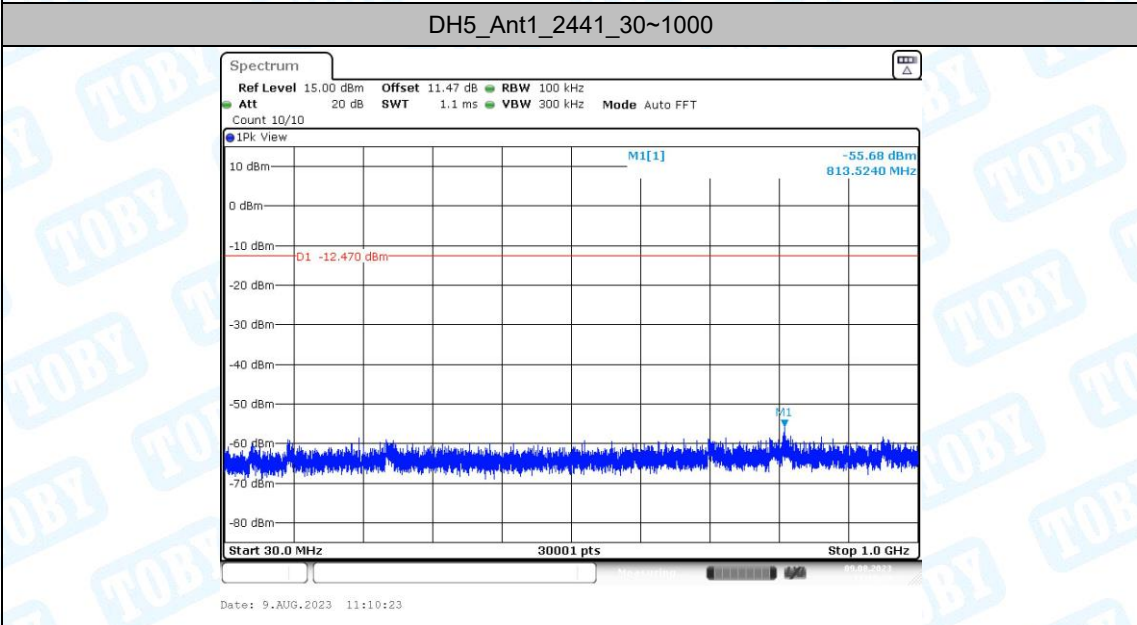
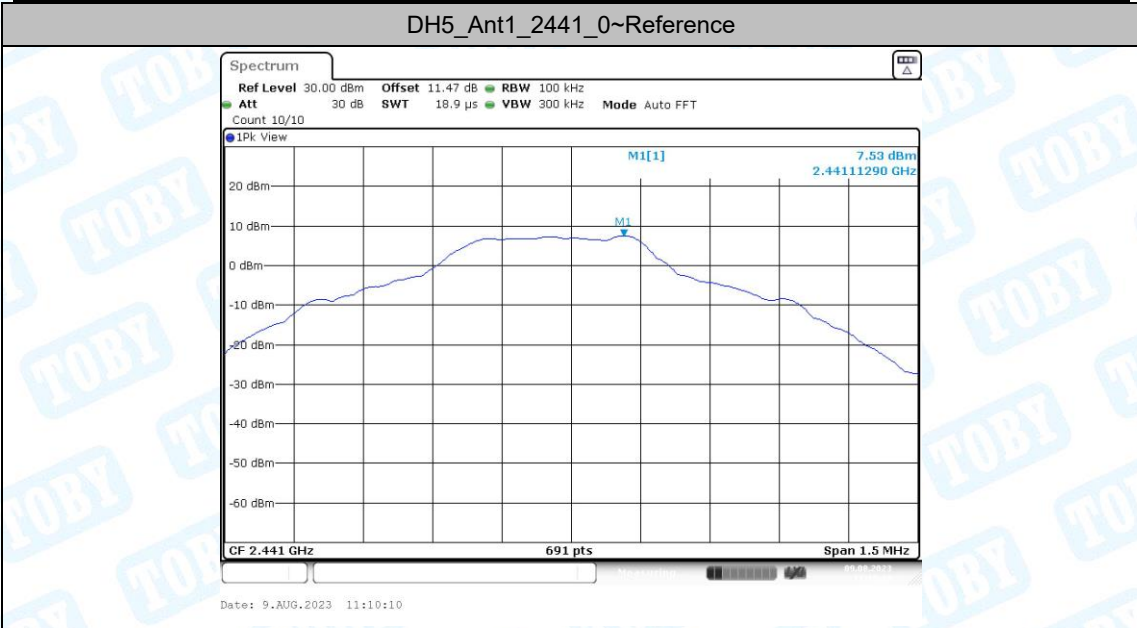
8. Conducted Spurious Emission

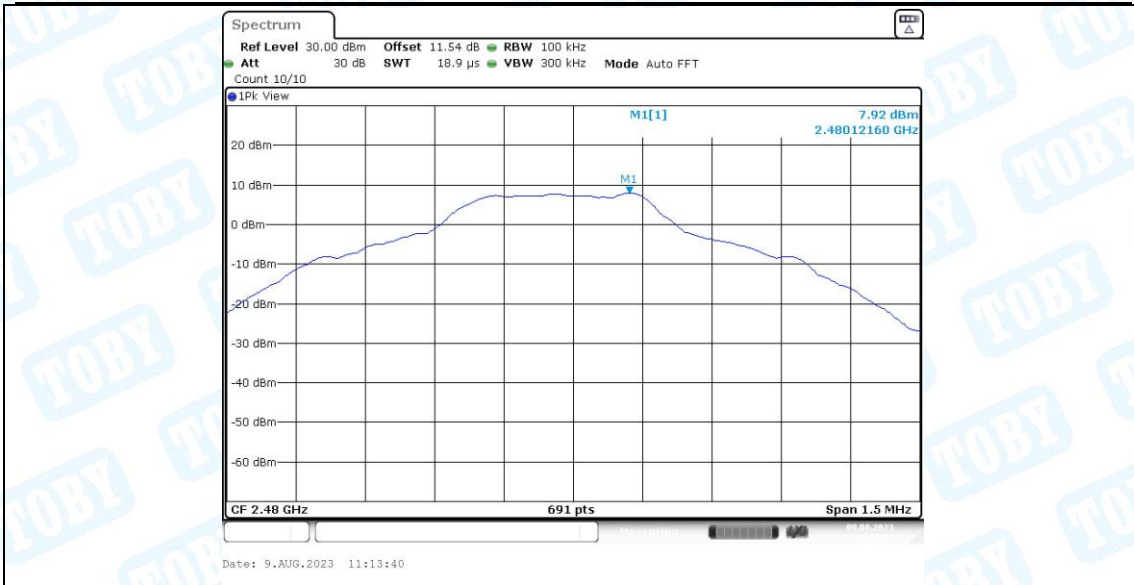
8.1. Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	7.19	7.19	---	PASS
			30~1000	7.19	-56.4	≤-12.81	PASS
			1000~26500	7.19	-47.96	≤-12.81	PASS
		2441	Reference	7.53	7.53	---	PASS
			30~1000	7.53	-55.68	≤-12.47	PASS
			1000~26500	7.53	-48.66	≤-12.47	PASS
		2480	Reference	7.92	7.92	---	PASS
			30~1000	7.92	-57.38	≤-12.08	PASS
			1000~26500	7.92	-47.04	≤-12.08	PASS
2DH5	Ant1	2402	Reference	3.50	3.50	---	PASS
			30~1000	3.50	-57.19	≤-16.5	PASS
			1000~26500	3.50	-47.65	≤-16.5	PASS
		2441	Reference	3.88	3.88	---	PASS
			30~1000	3.88	-56.57	≤-16.12	PASS
			1000~26500	3.88	-48.48	≤-16.12	PASS
		2480	Reference	4.23	4.23	---	PASS
			30~1000	4.23	-57.51	≤-15.77	PASS
			1000~26500	4.23	-48.34	≤-15.77	PASS
3DH5	Ant1	2402	Reference	3.63	3.63	---	PASS
			30~1000	3.63	-57.66	≤-16.37	PASS
			1000~26500	3.63	-47.85	≤-16.37	PASS
		2441	Reference	4.14	4.14	---	PASS
			30~1000	4.14	-57.58	≤-15.86	PASS
			1000~26500	4.14	-48.24	≤-15.86	PASS
		2480	Reference	4.48	4.48	---	PASS
			30~1000	4.48	-56.08	≤-15.52	PASS
			1000~26500	4.48	-47.54	≤-15.52	PASS

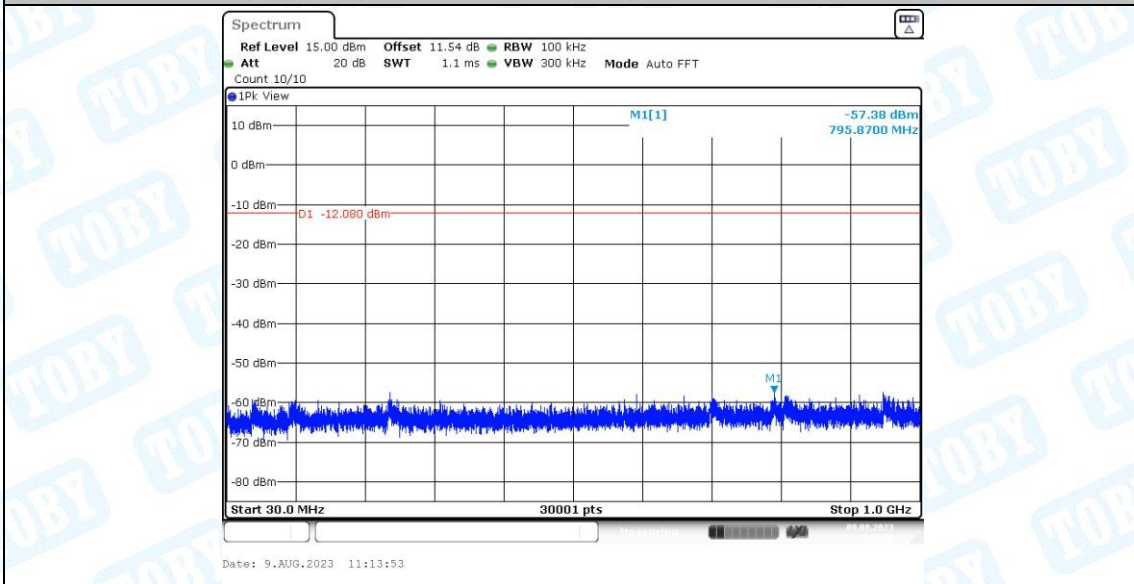
8.2. Test Graphs



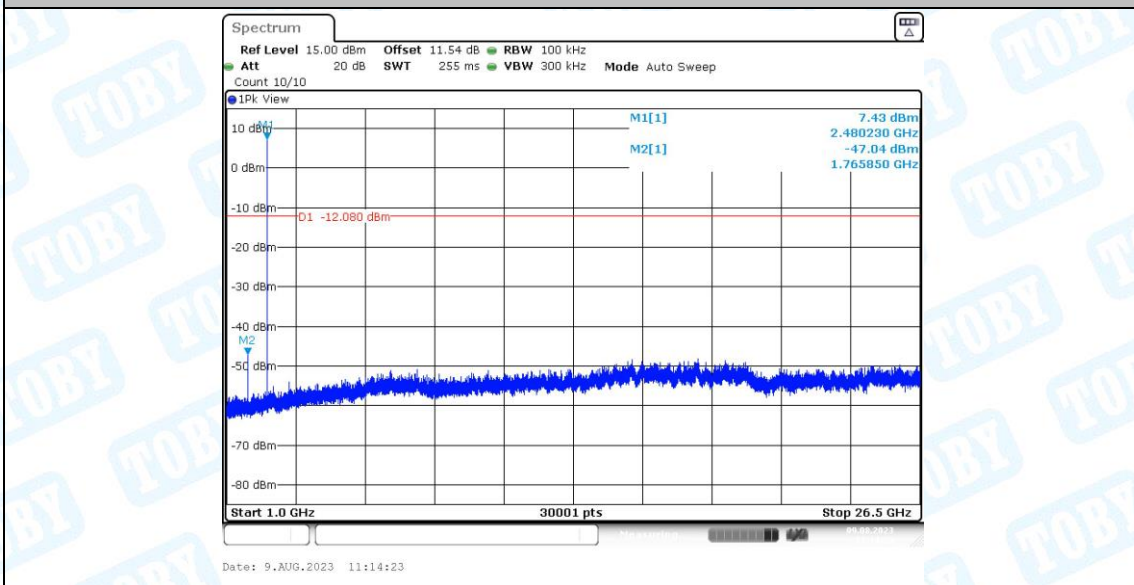




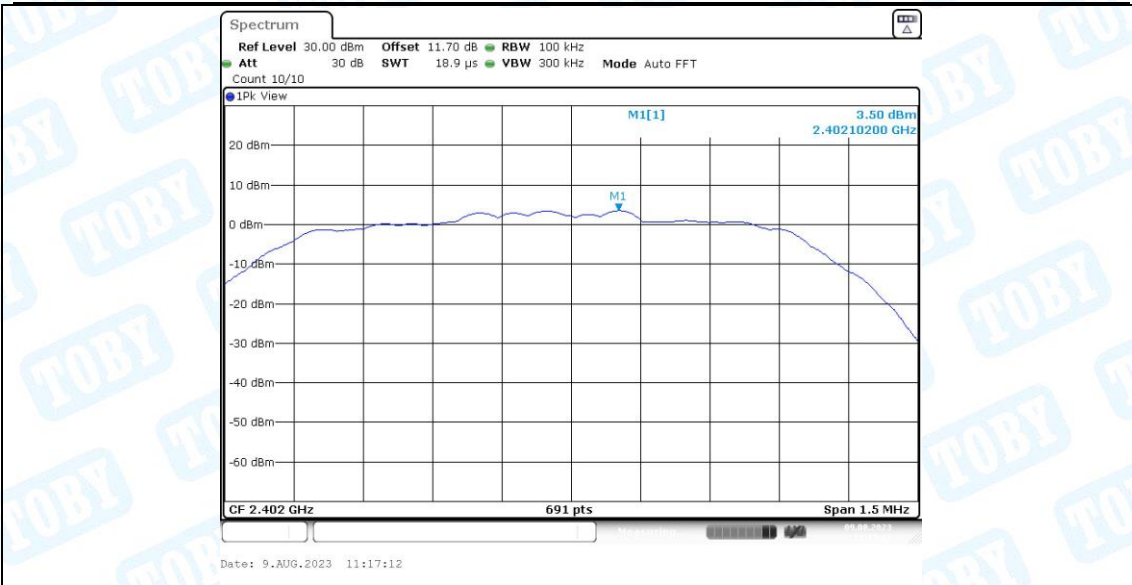
DH5_Ant1_2480_30~1000



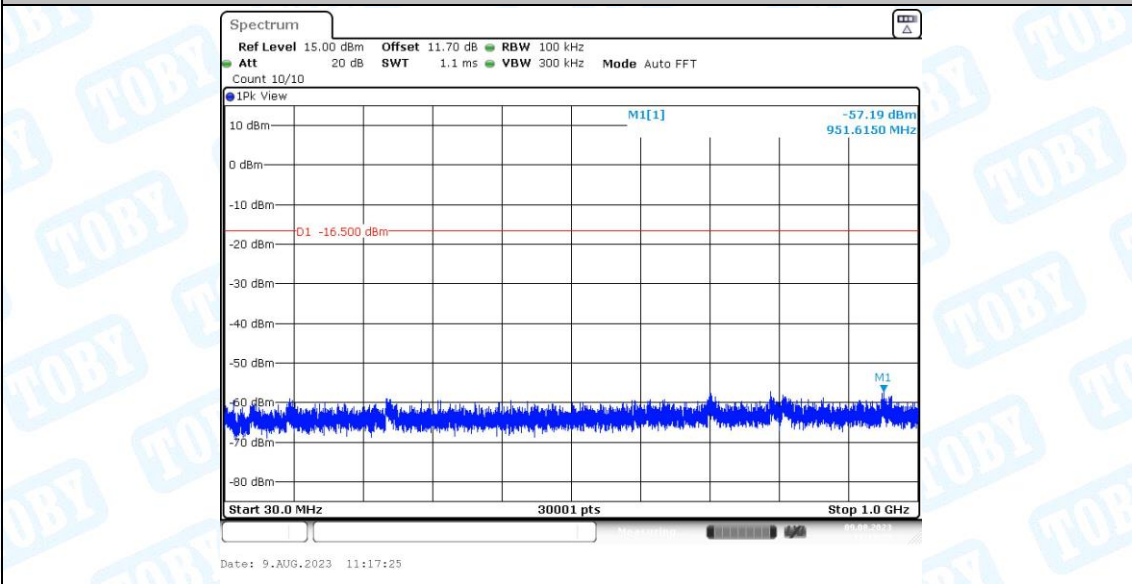
DH5_Ant1_2480_1000~26500



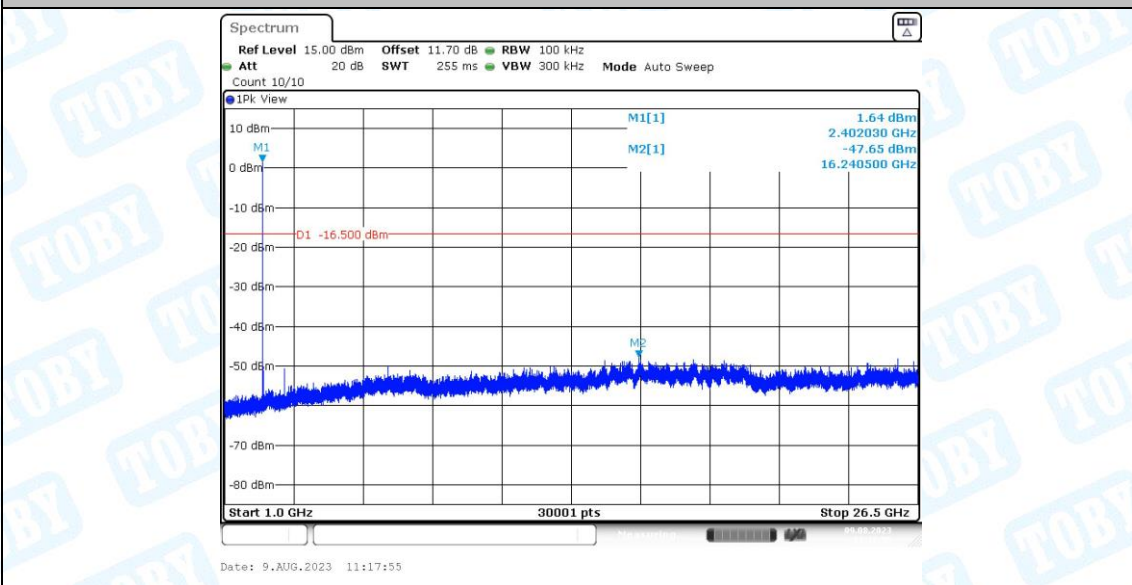
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference