

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

General Description of EUT	
Product Name:	SmartWatch
Test Model:	T3MAX
Sample ID:	202307-0081-1-2#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 3.7V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202307-0081-31 The report only show the worst case data.	

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1. -20dB Emission Bandwidth

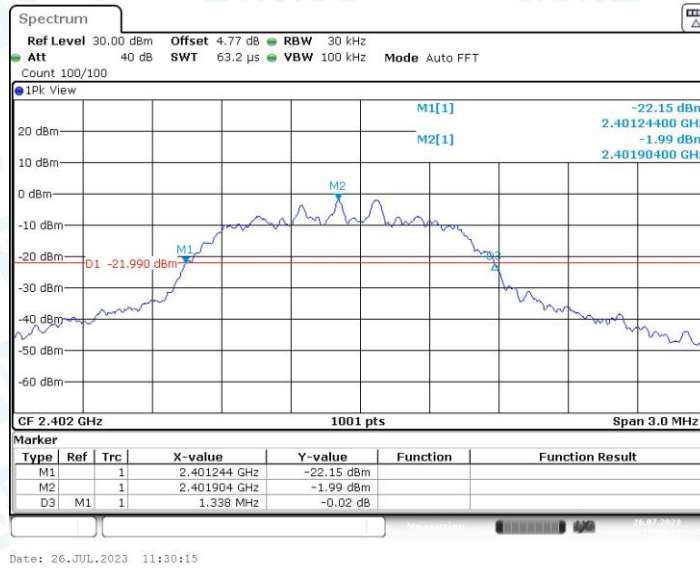
1.1. Test Result

TestMode	Antenna	Channel	-20db EBW[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.04	---	---
		2441	1.05	---	---
		2480	1.05	---	---
2DH5	Ant1	2402	1.34	---	---
		2441	1.34	---	---
		2480	1.35	---	---
3DH5	Ant1	2402	1.30	---	---
		2441	1.30	---	---
		2480	1.29	---	---

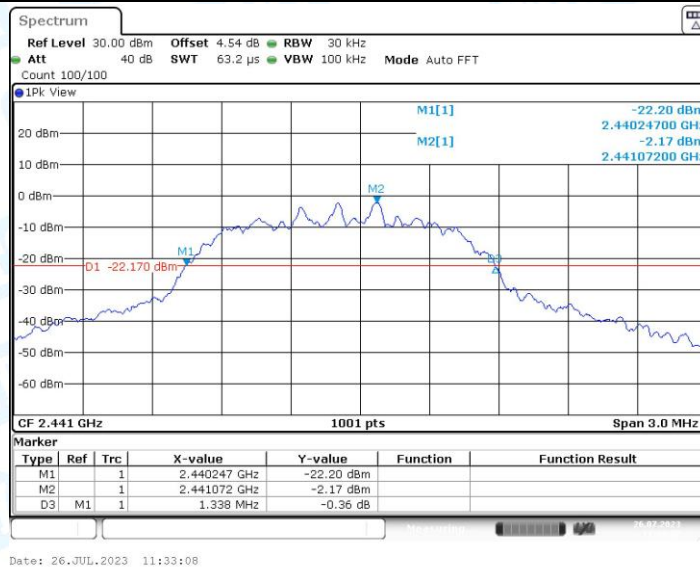
1.2.Test Graphs



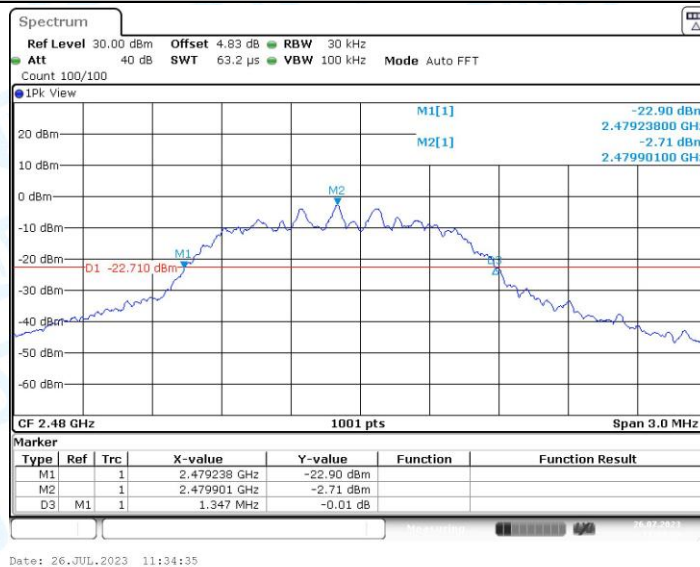
2DH5_Ant1_2402



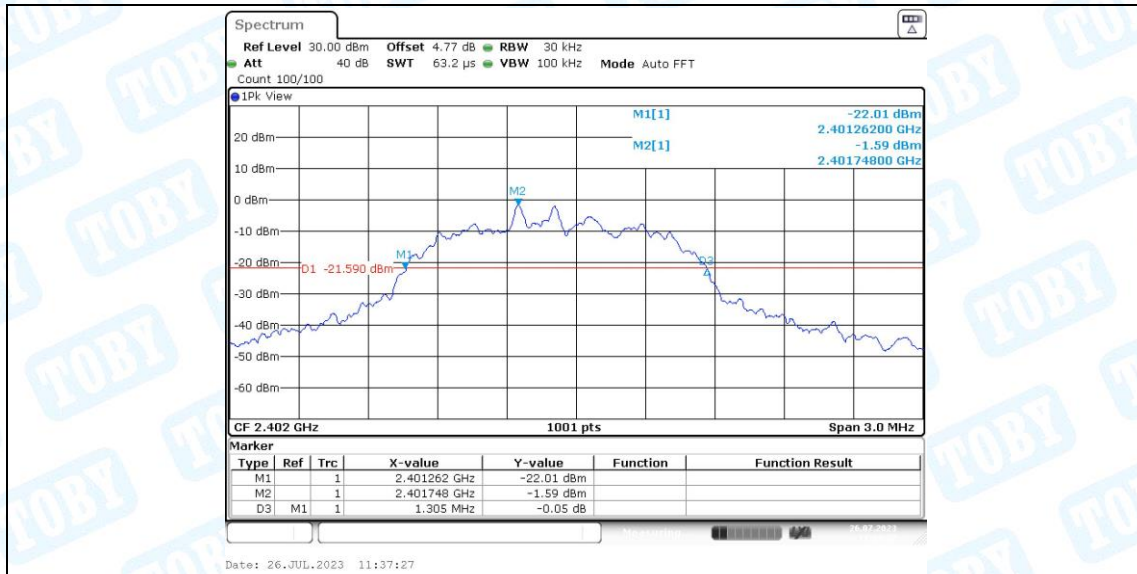
2DH5_Ant1_2441



2DH5_Ant1_2480



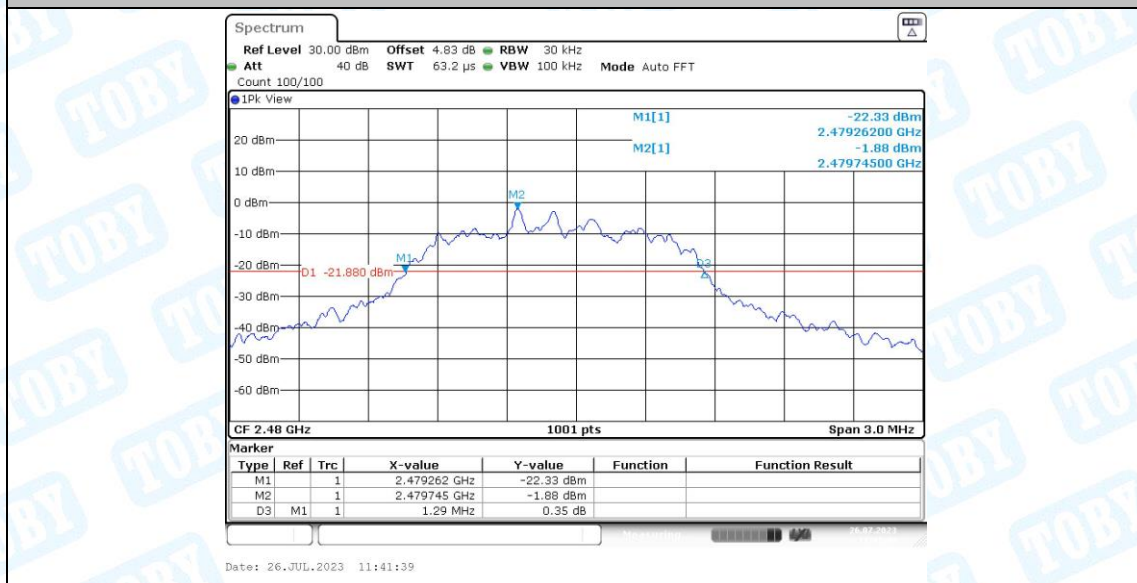
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



2. Occupied Channel Bandwidth

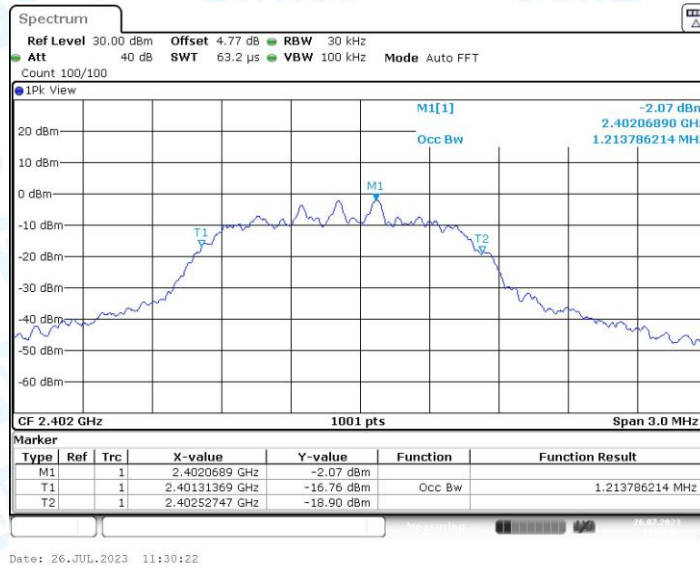
2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.95	2401.4306	2402.3806	---	---
		2441	0.965	2440.4246	2441.3896	---	---
		2480	0.974	2479.4156	2480.3896	---	---
2DH5	Ant1	2402	1.214	2401.3137	2402.5275	---	---
		2441	1.229	2440.3077	2441.5365	---	---
		2480	1.247	2479.2957	2480.5425	---	---
3DH5	Ant1	2402	1.217	2401.2987	2402.5155	---	---
		2441	1.223	2440.2957	2441.5185	---	---
		2480	1.226	2479.2957	2480.5215	---	---

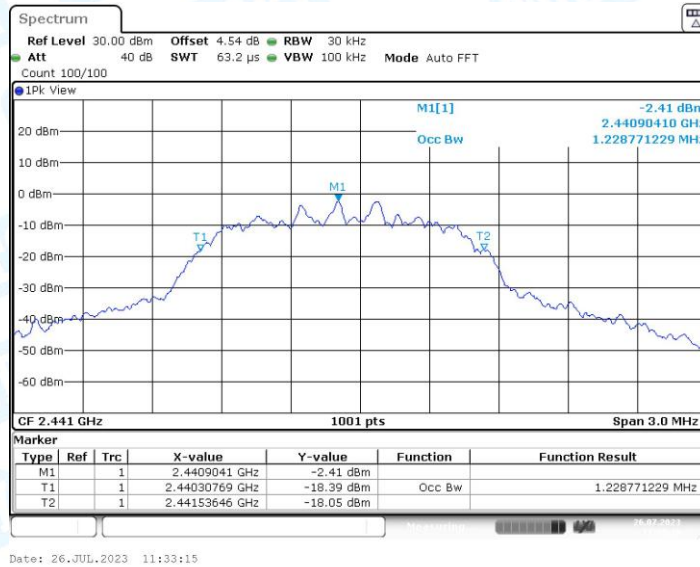
2.2. Test Graphs



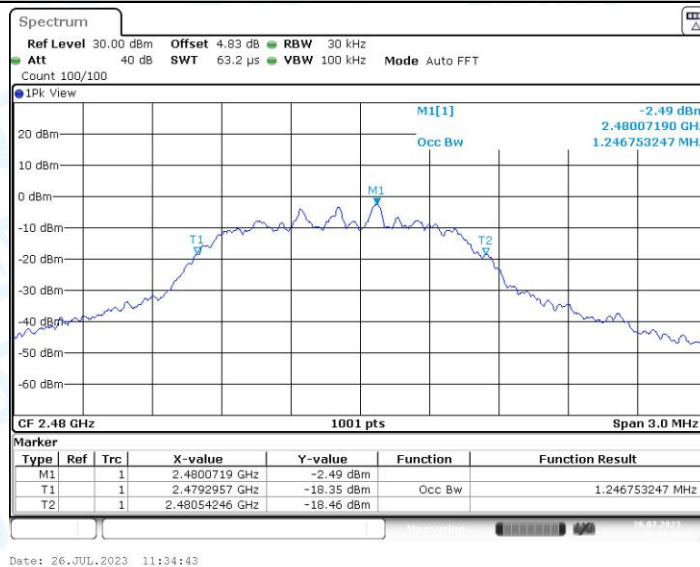
2DH5_Ant1_2402



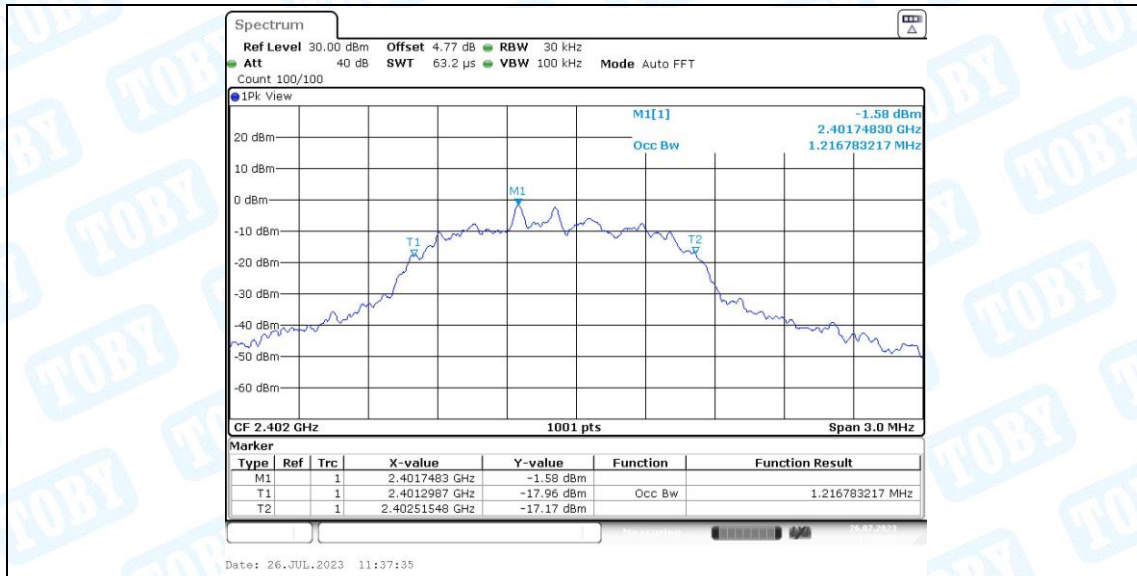
2DH5_Ant1_2441



2DH5_Ant1_2480



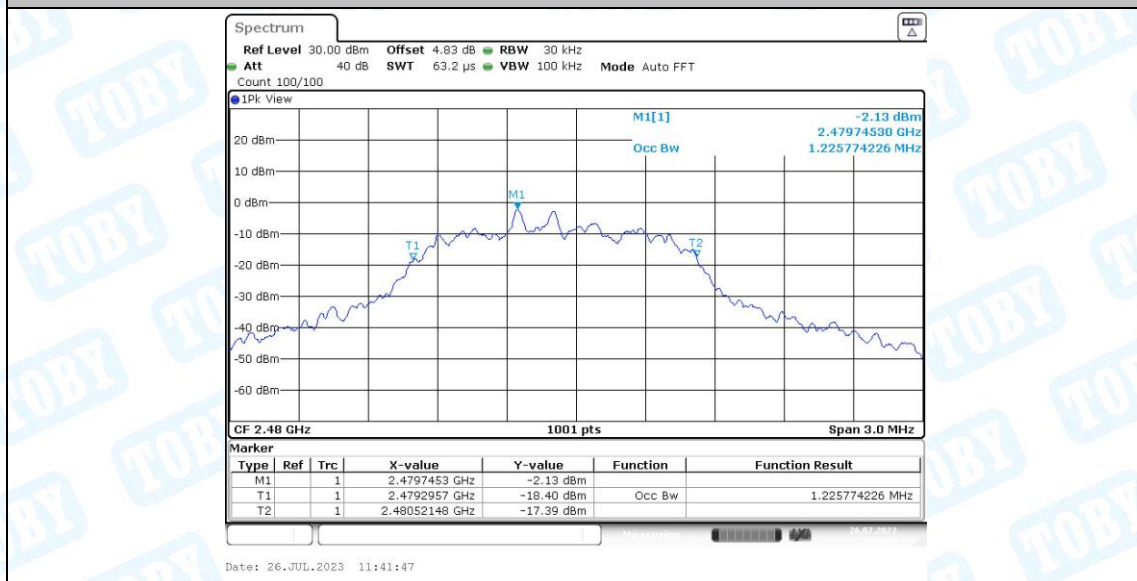
3DH5_Ant1_2402



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	0.98	≤20.97	PASS
		2441	0.92	≤20.97	PASS
		2480	0.66	≤20.97	PASS
2DH5	Ant1	2402	1.76	≤20.97	PASS
		2441	1.52	≤20.97	PASS
		2480	1.32	≤20.97	PASS
3DH5	Ant1	2402	2.24	≤20.97	PASS
		2441	1.72	≤20.97	PASS
		2480	1.81	≤20.97	PASS

3.2.Test Graphs



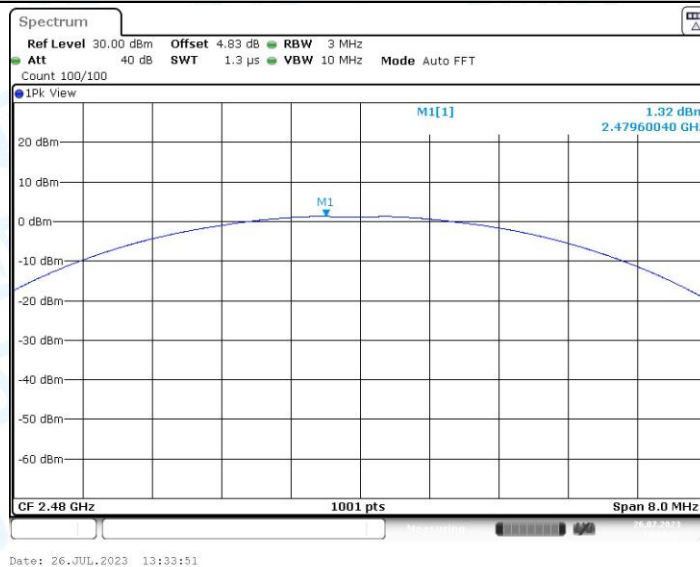
2DH5_Ant1_2402



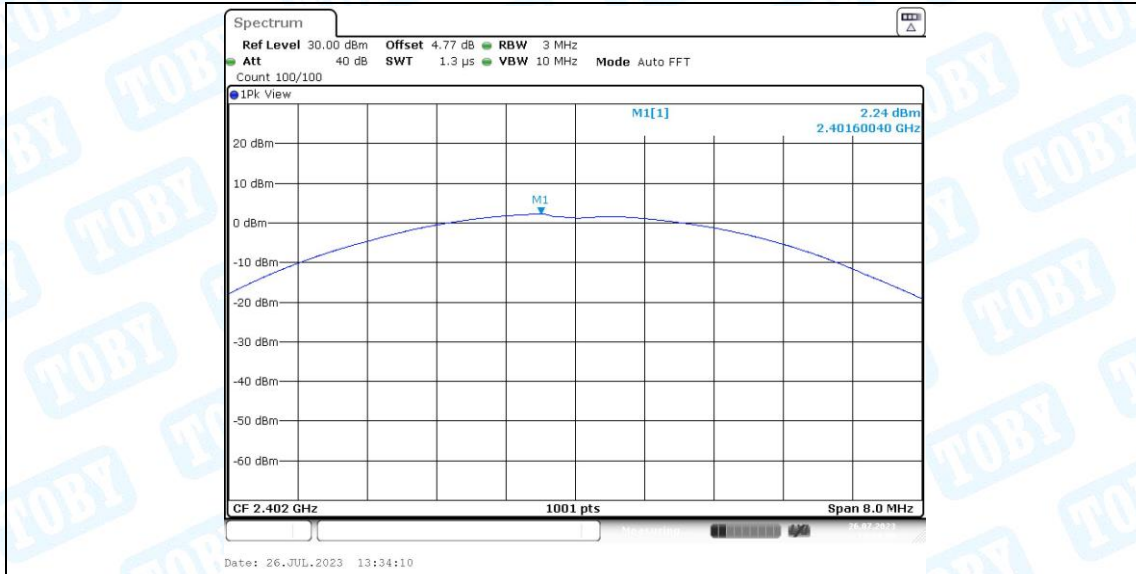
2DH5_Ant1_2441



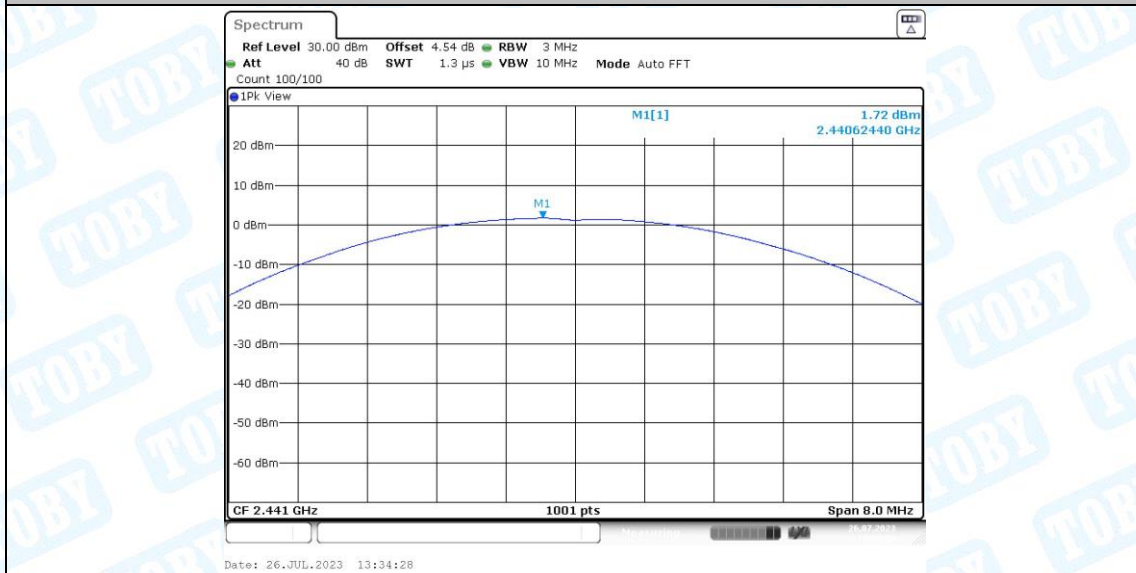
2DH5_Ant1_2480



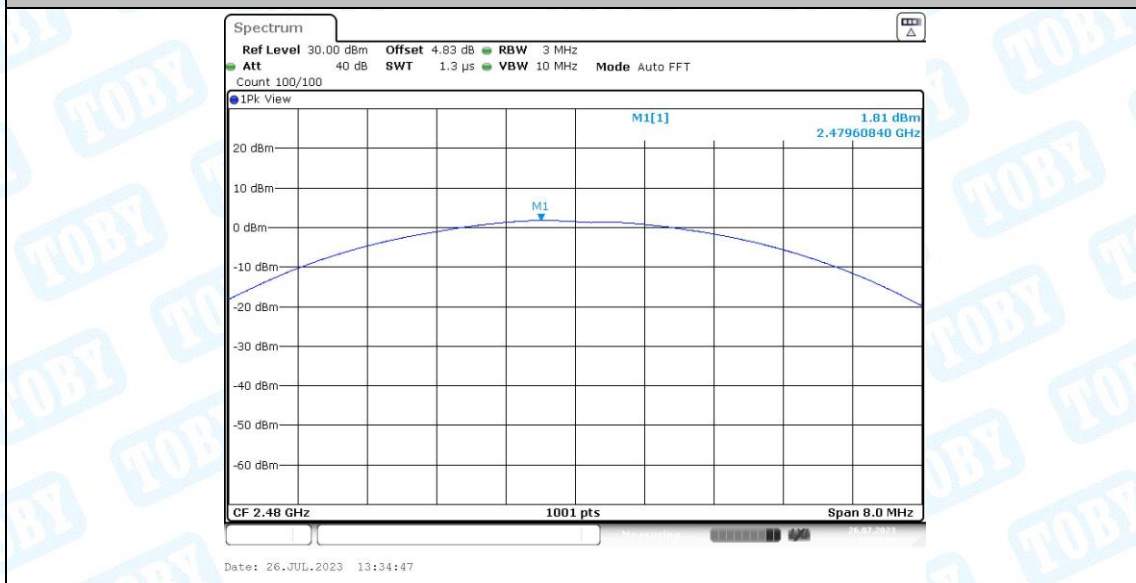
3DH5_Ant1_2402



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	1.023	≥ 0.700	PASS
2DH5	Ant1	Hop	1.046	≥ 0.900	PASS
3DH5	Ant1	Hop	1.041	≥ 0.867	PASS

4.2.Test Graphs

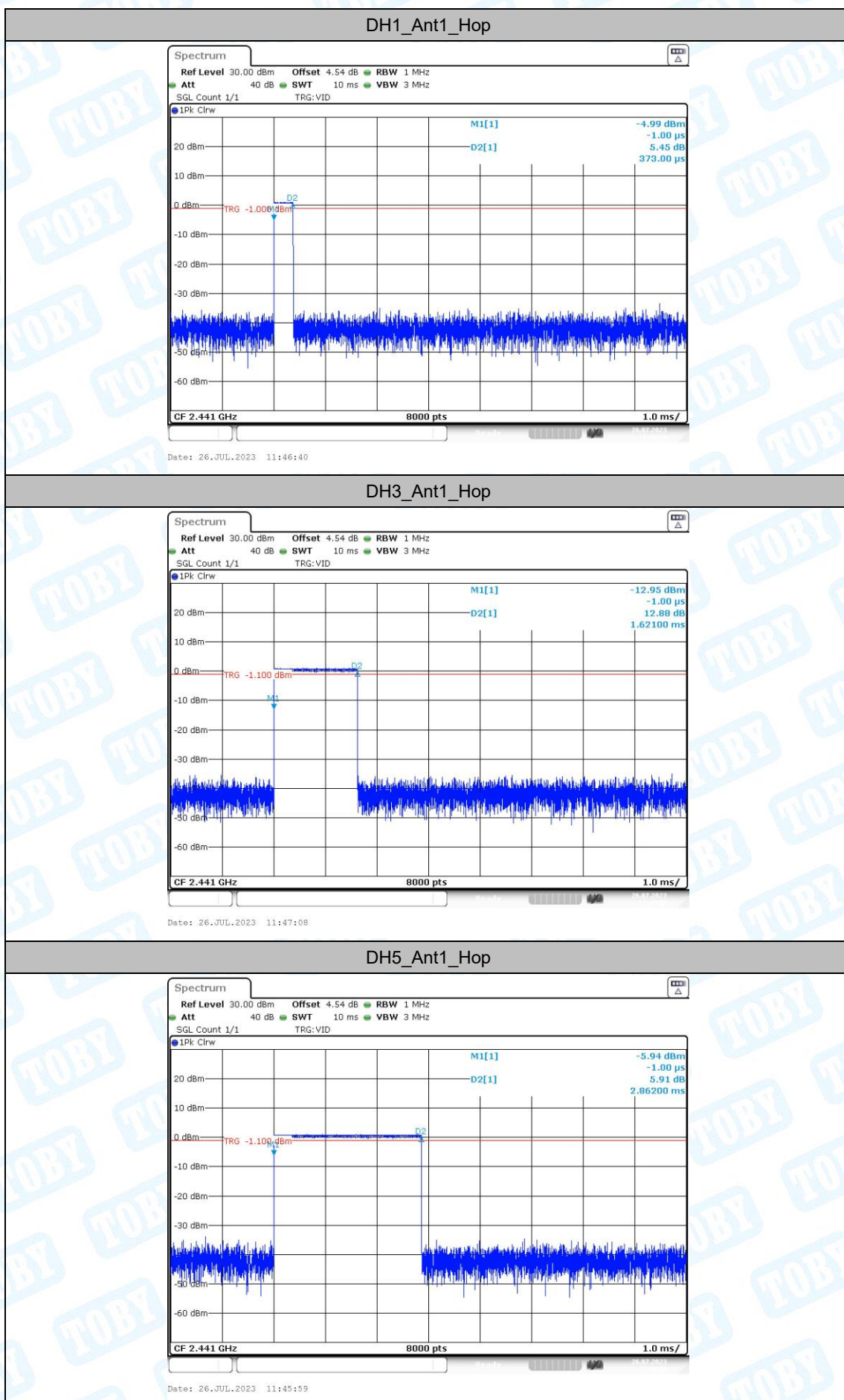


5. Time of occupancy

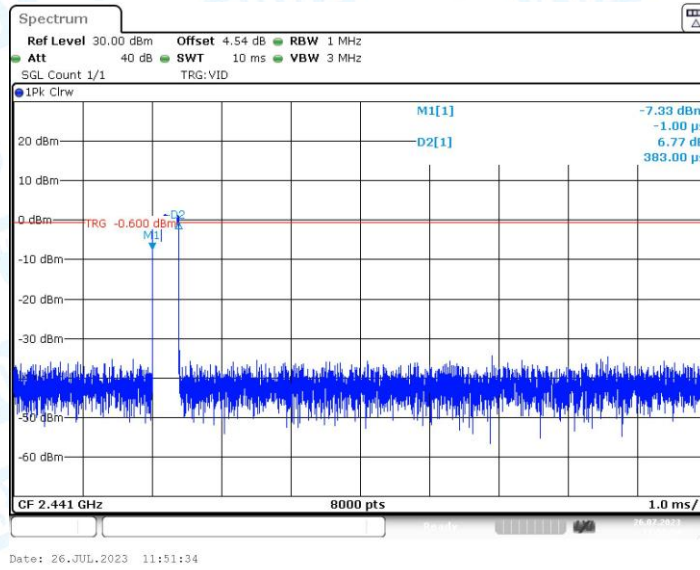
5.1. Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.373	320	0.119	≤0.4	PASS
DH3	Ant1	Hop	1.621	160	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.862	106.67	0.305	≤0.4	PASS
2DH1	Ant1	Hop	0.383	320	0.123	≤0.4	PASS
2DH3	Ant1	Hop	1.626	160	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.868	106.67	0.306	≤0.4	PASS
3DH1	Ant1	Hop	0.384	320	0.123	≤0.4	PASS
3DH3	Ant1	Hop	1.625	160	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.869	106.67	0.306	≤0.4	PASS

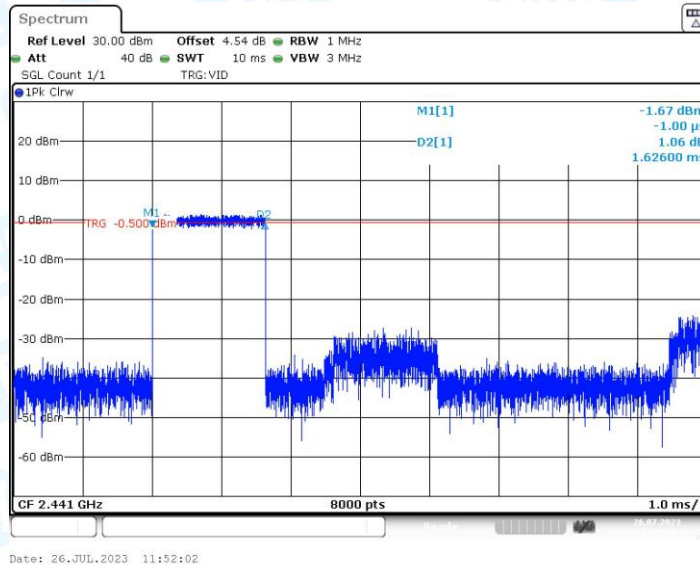
5.2.Test Graphs



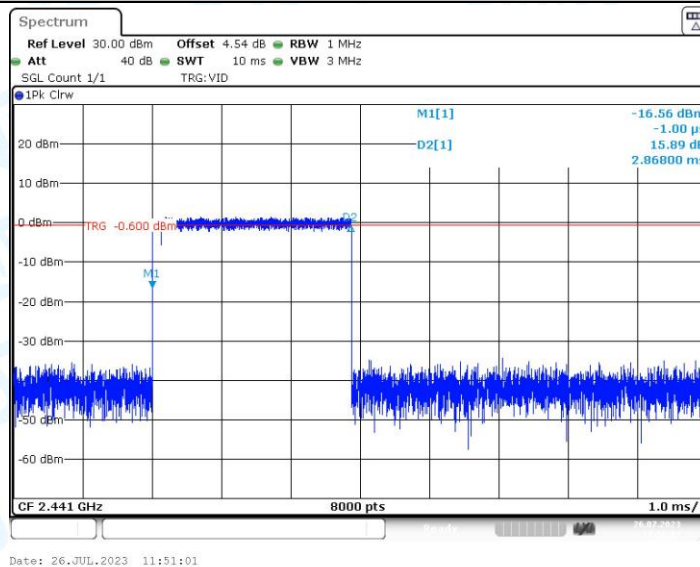
2DH1_Ant1_Hop



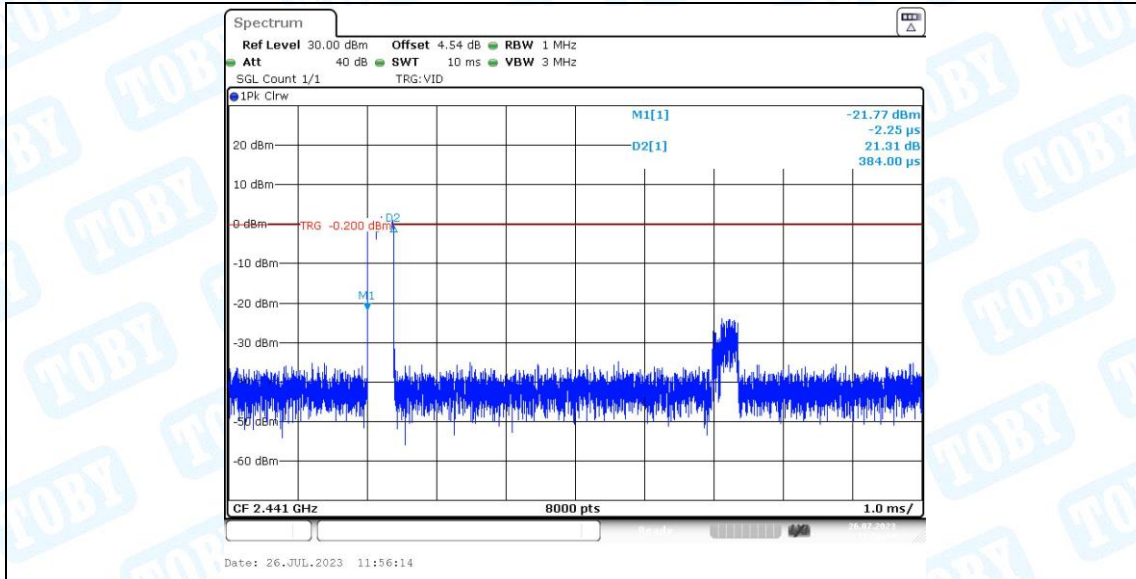
2DH3_Ant1_Hop



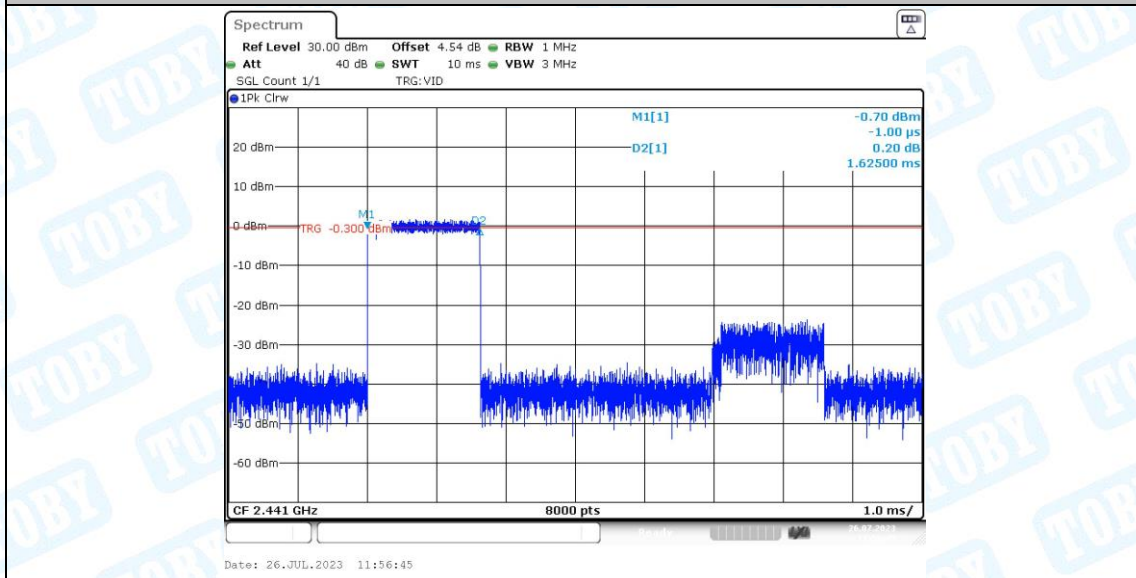
2DH5_Ant1_Hop



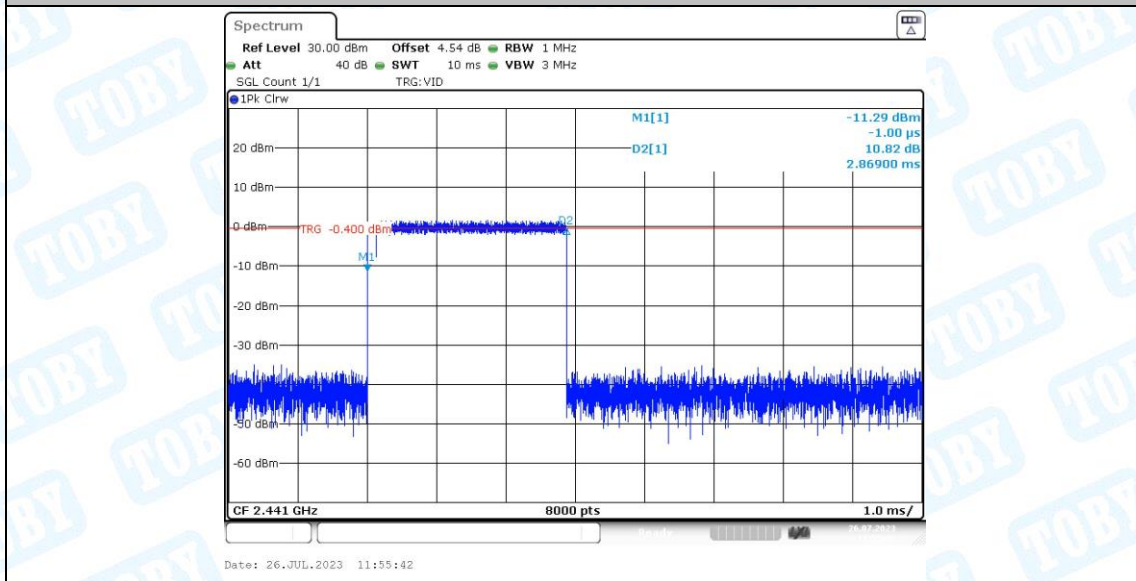
3DH1_Ant1_Hop



3DH3_Ant1_Hop



3DH5_Ant1_Hop

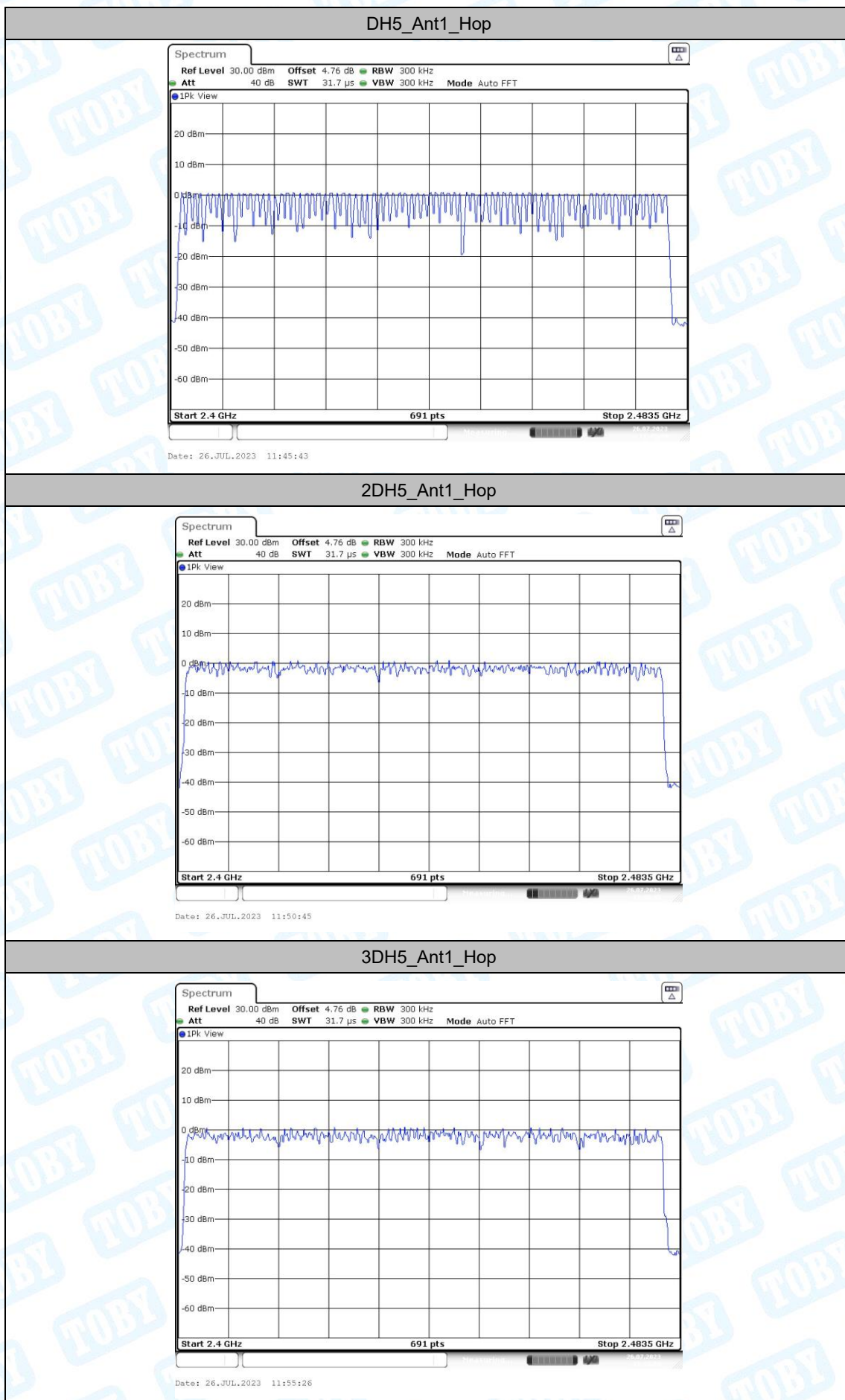


6. Number of hopping channels

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

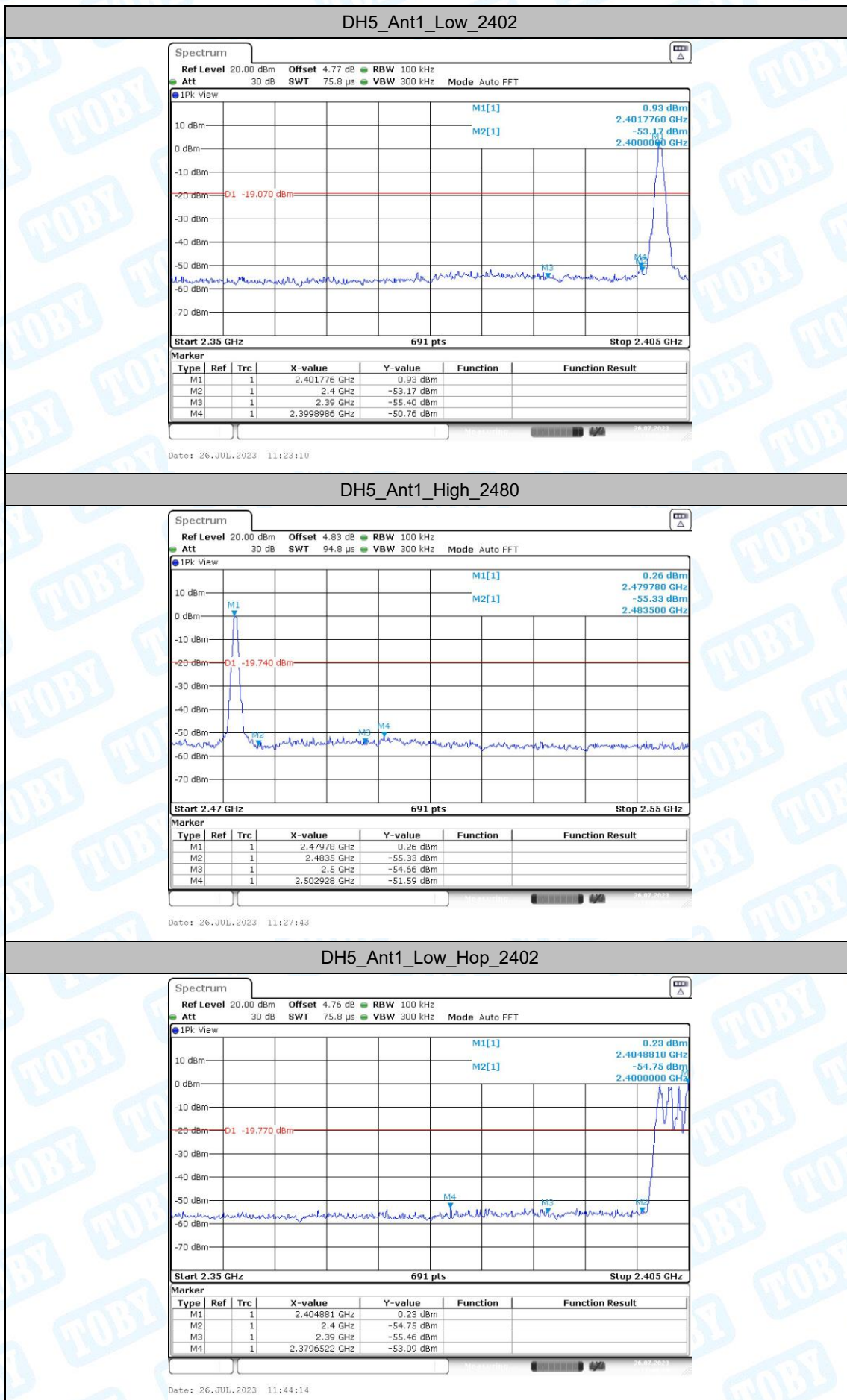


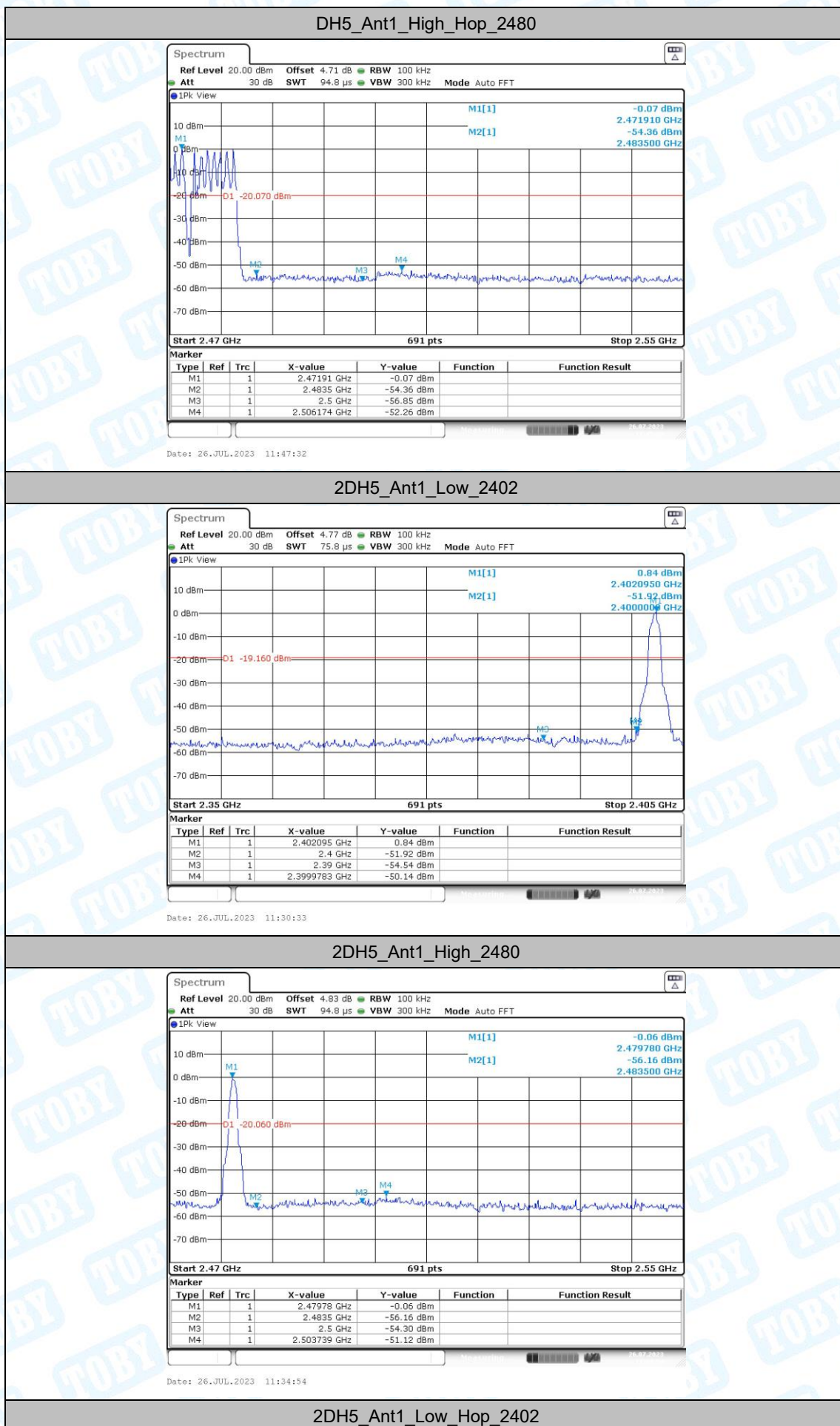
7. Band edge measurements

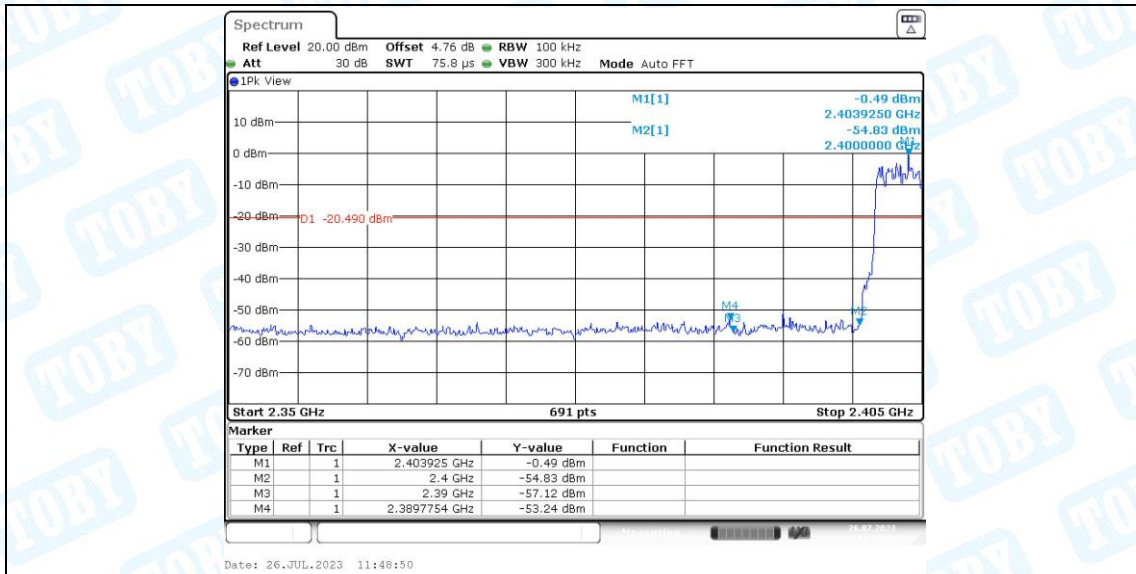
7.1. Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.93	-50.76	≤-19.07	PASS
		High	2480	0.26	-51.59	≤-19.74	PASS
		Low	Hop_2402	0.23	-53.09	≤-19.77	PASS
		High	Hop_2480	-0.07	-52.26	≤-20.07	PASS
2DH5	Ant1	Low	2402	0.84	-50.14	≤-19.16	PASS
		High	2480	-0.06	-51.12	≤-20.06	PASS
		Low	Hop_2402	-0.49	-53.24	≤-20.49	PASS
		High	Hop_2480	-0.30	-52.11	≤-20.3	PASS
3DH5	Ant1	Low	2402	0.51	-51.87	≤-19.49	PASS
		High	2480	-0.17	-51.14	≤-20.17	PASS
		Low	Hop_2402	-2.89	-52.22	≤-22.89	PASS
		High	Hop_2480	0.21	-52.74	≤-19.79	PASS

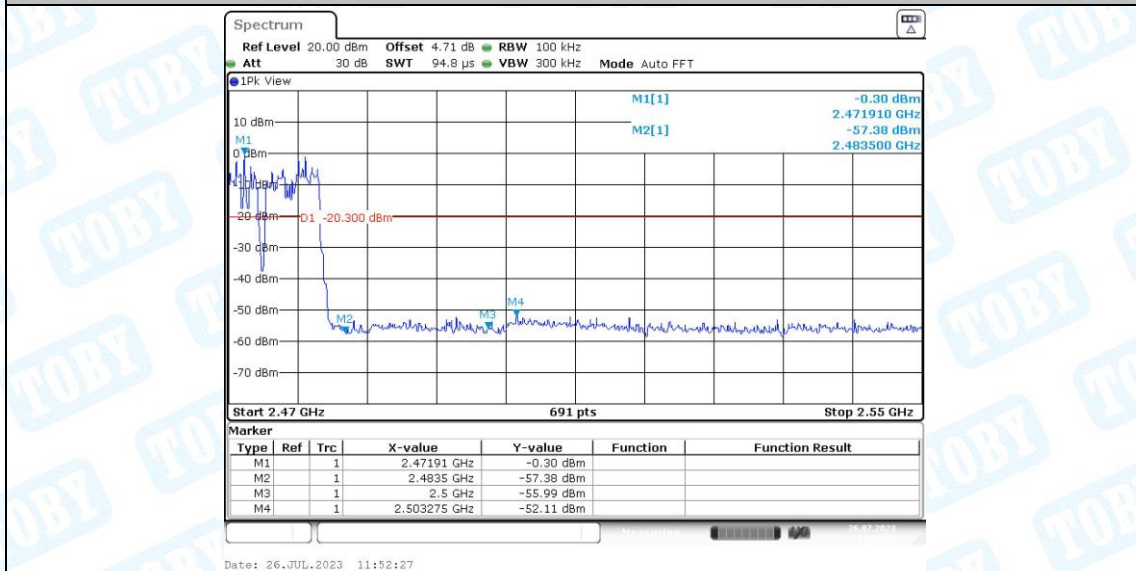
7.2.Test Graphs



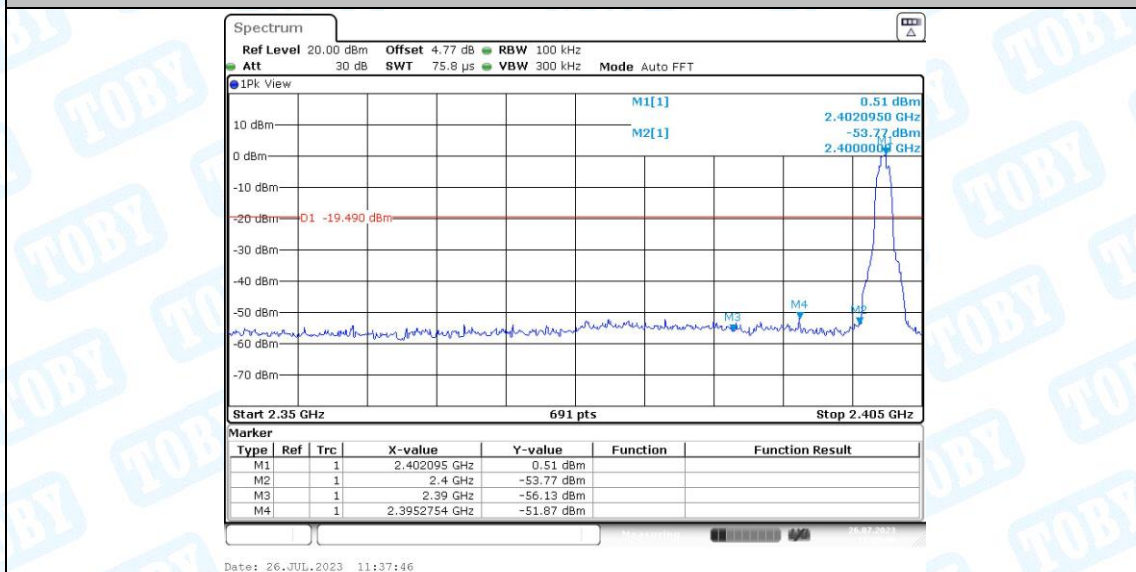




2DH5_Ant1_High_Hop_2480



3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480