

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

General Description of EUT	
Product Name:	Gateway
Test Model:	BoHM A
Sample ID:	RW-C-202203-0256-1-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 5V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202203-0256-11	

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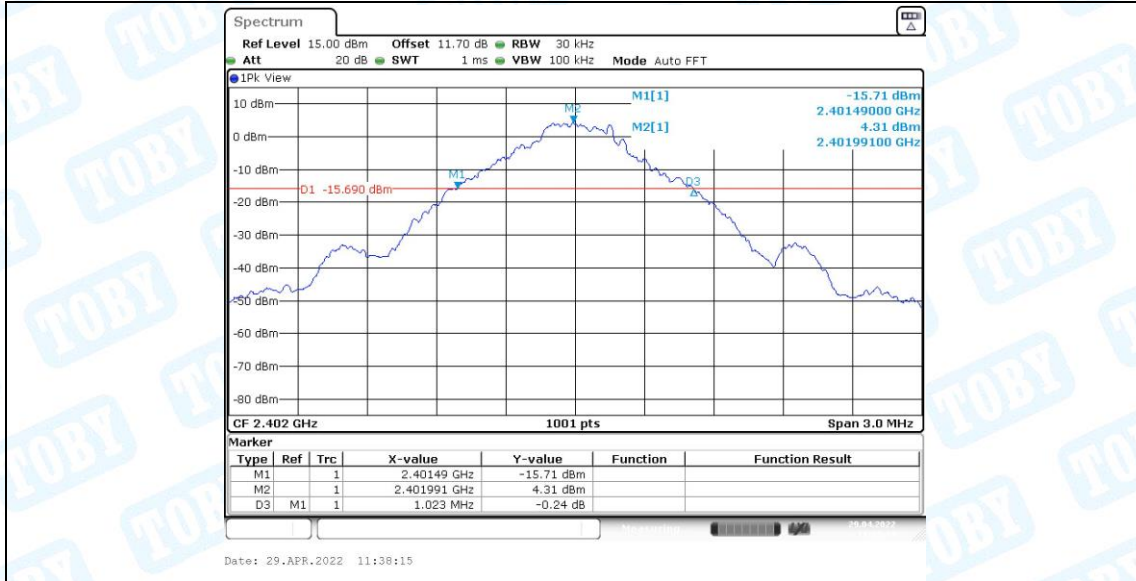
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1. 20dB Emission Bandwidth

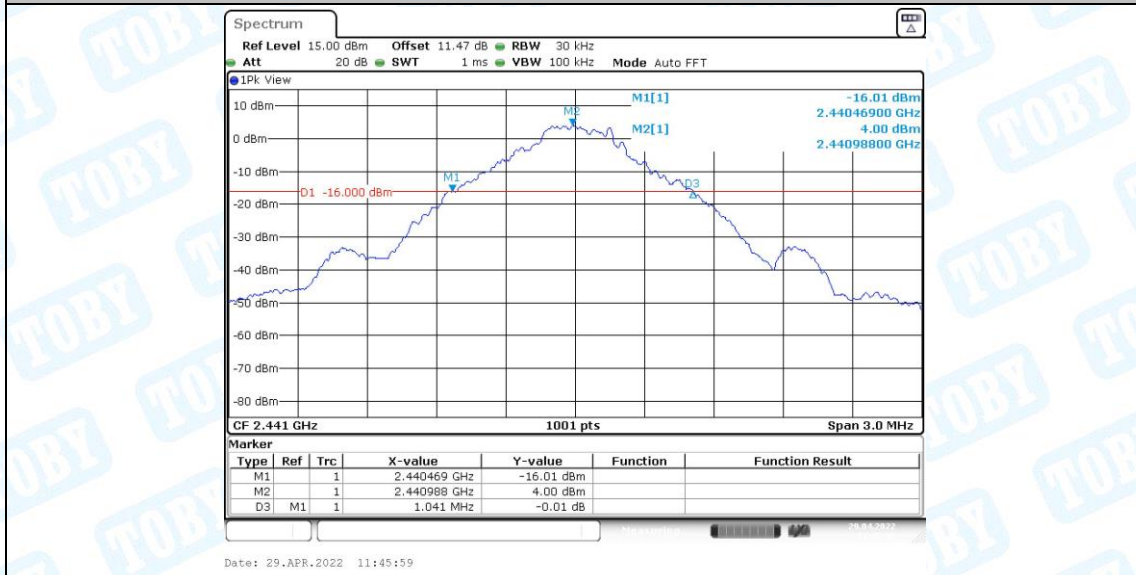
1.1. Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.02	---	---
		2441	1.04	---	---
		2480	1.02	---	---
2DH5	Ant1	2402	1.36	---	---
		2441	1.36	---	---
		2480	1.36	---	---
3DH5	Ant1	2402	1.33	---	---
		2441	1.33	---	---
		2480	1.33	---	---

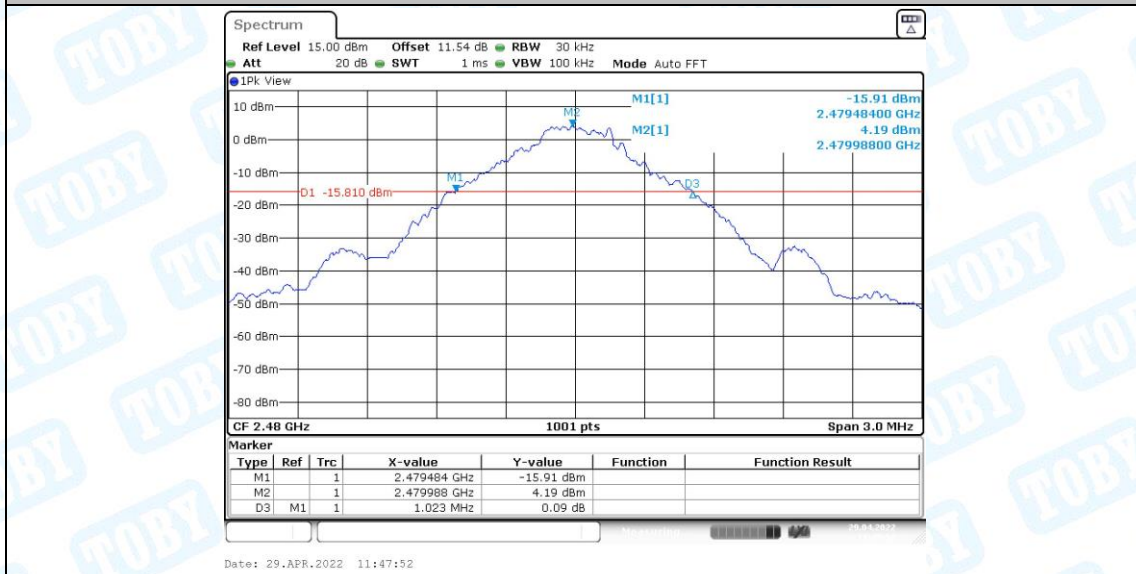
1.2. Test Graphs



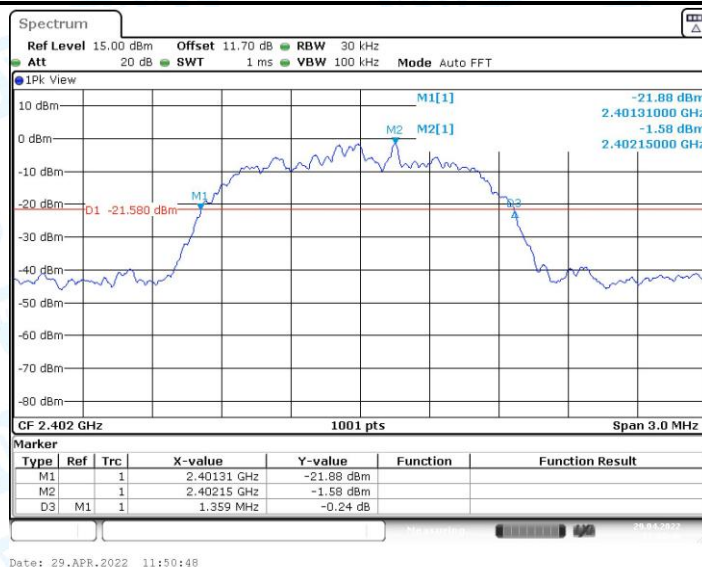
DH5_Ant1_2402



DH5_Ant1_2441



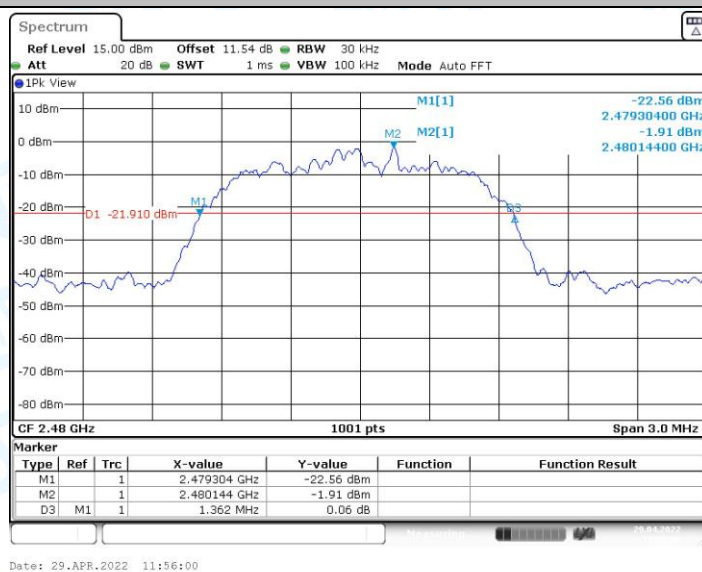
DH5_Ant1_2480



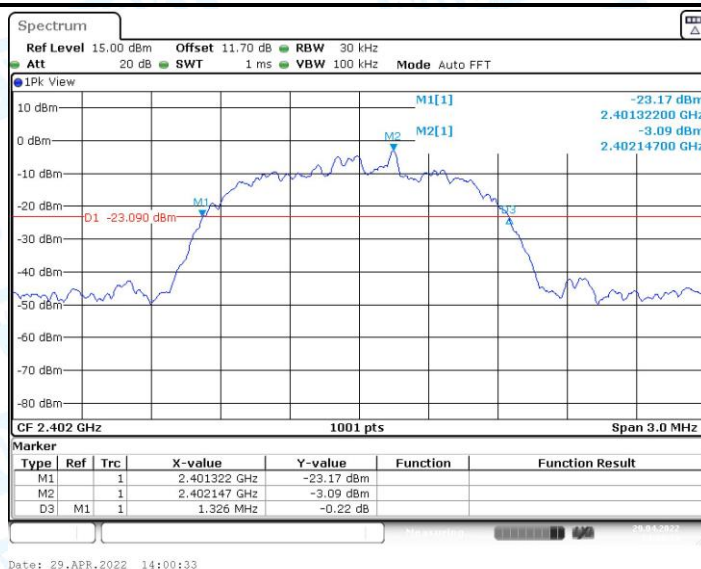
2DH5_Ant1_2402



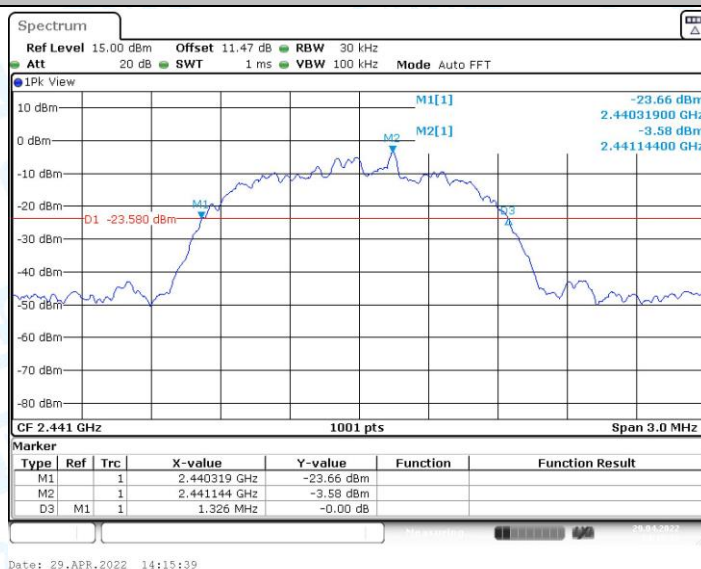
2DH5_Ant1_2441



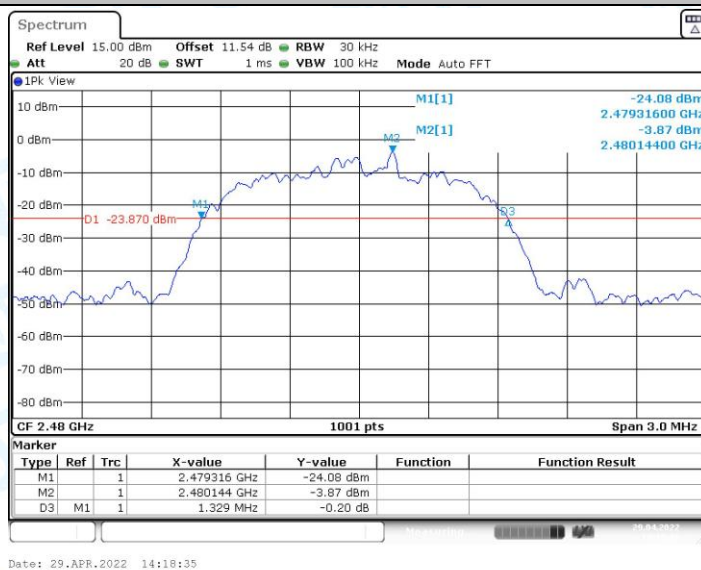
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



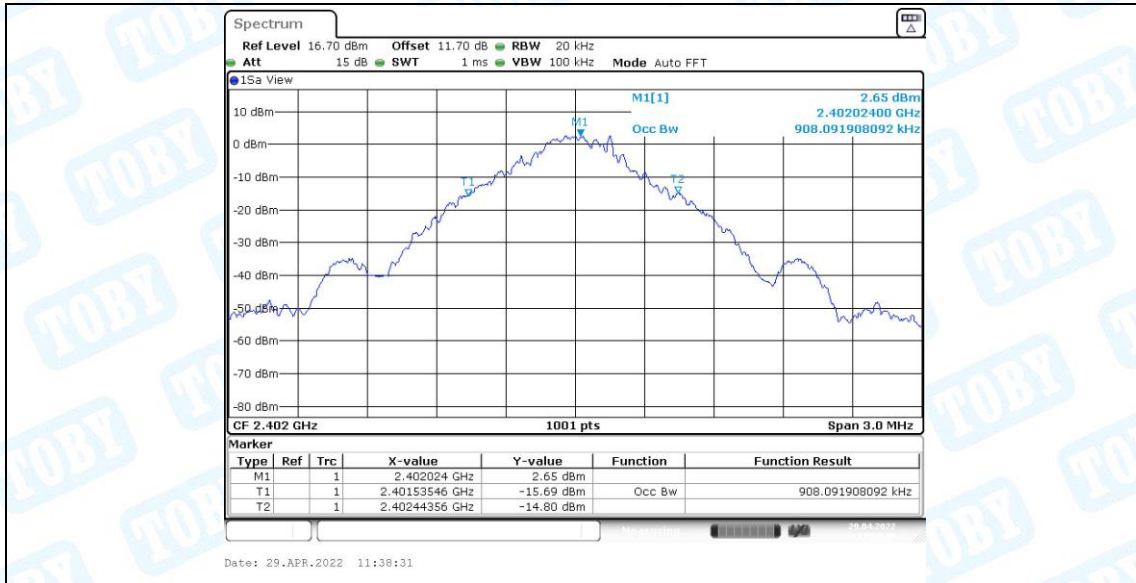
3DH5_Ant1_2480

2. Occupied Channel Bandwidth

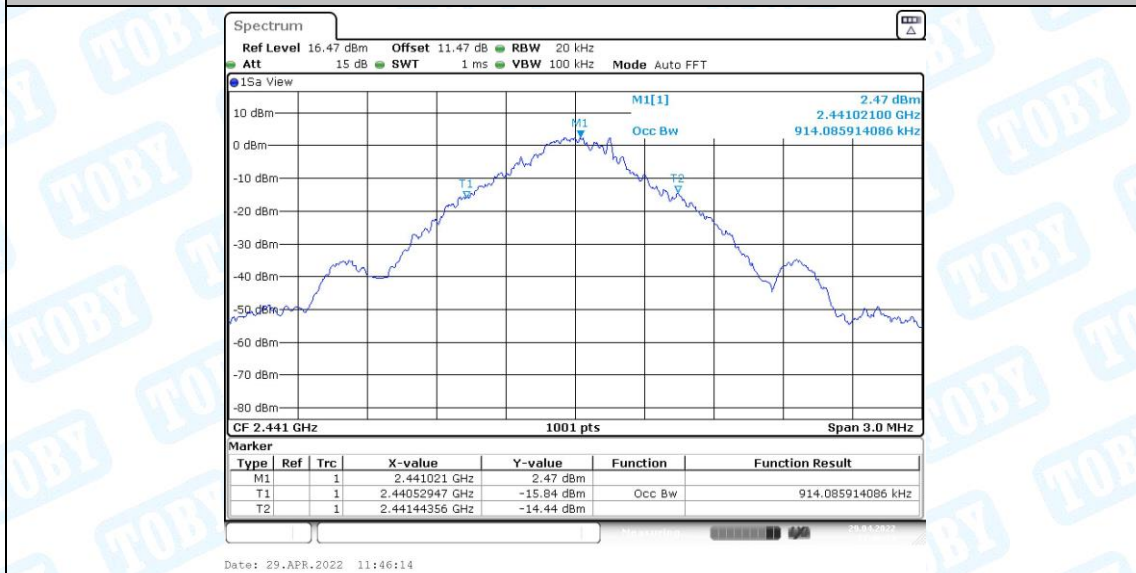
2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.908	2401.535	2402.444	---	---
		2441	0.914	2440.529	2441.444	---	---
		2480	0.914	2479.526	2480.441	---	---
2DH5	Ant1	2402	1.208	2401.383	2402.590	---	---
		2441	1.208	2440.380	2441.587	---	---
		2480	1.208	2479.380	2480.587	---	---
3DH5	Ant1	2402	1.211	2401.374	2402.584	---	---
		2441	1.208	2440.374	2441.581	---	---
		2480	1.211	2479.371	2480.581	---	---

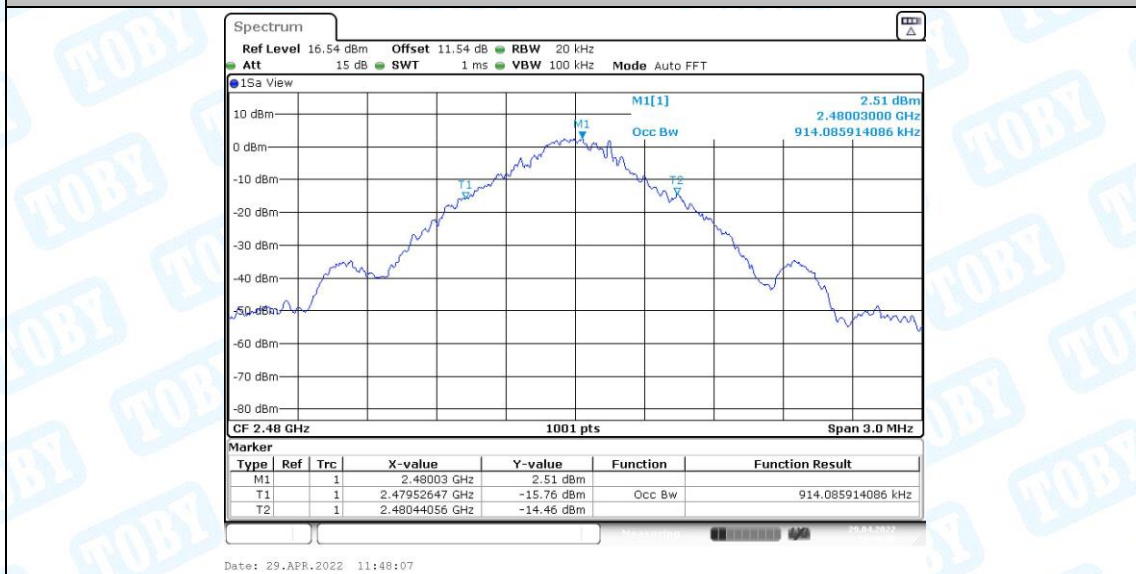
2.2.Test Graphs



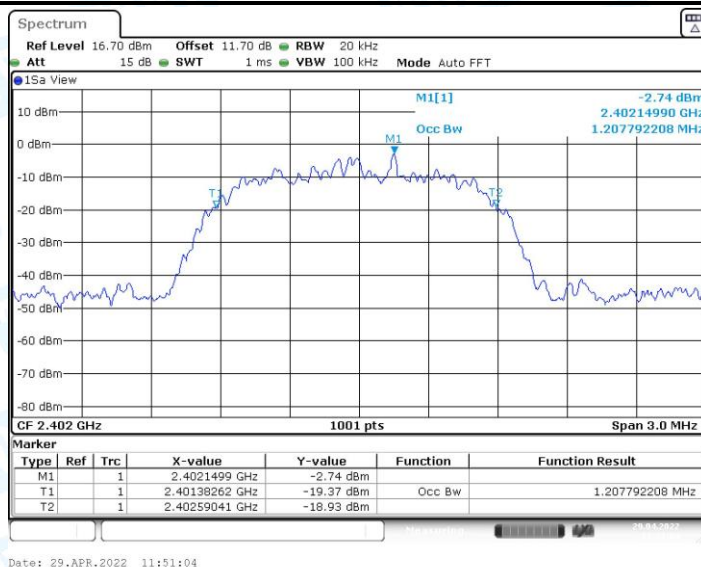
DH5_Ant1_2402



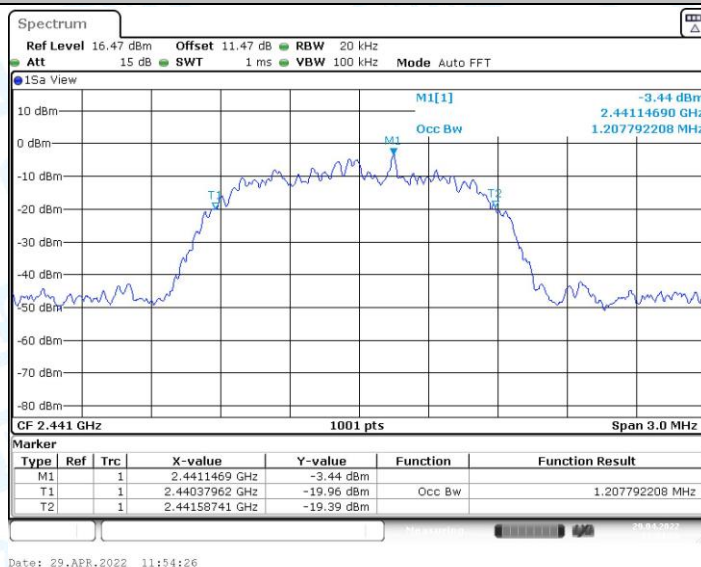
DH5_Ant1_2441



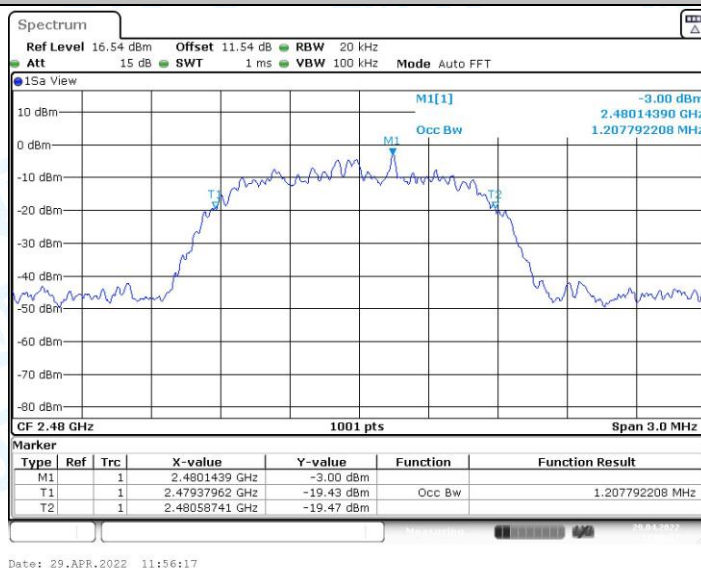
DH5_Ant1_2480



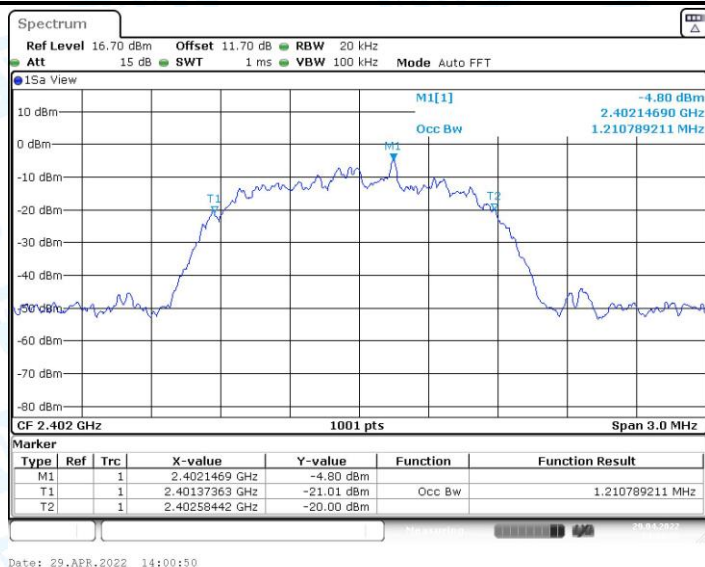
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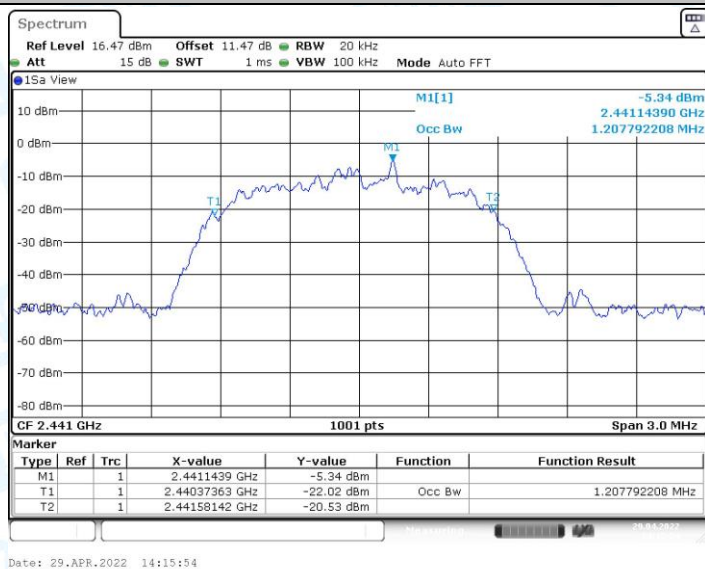
2DH5_Ant1_2441



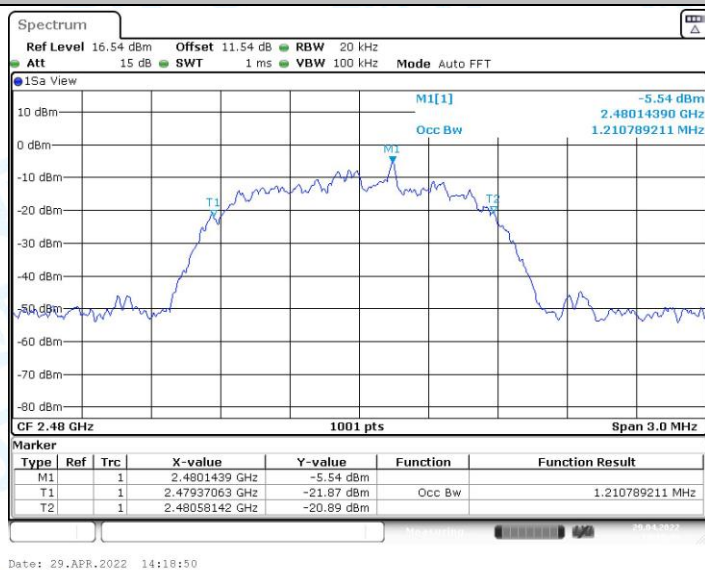
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



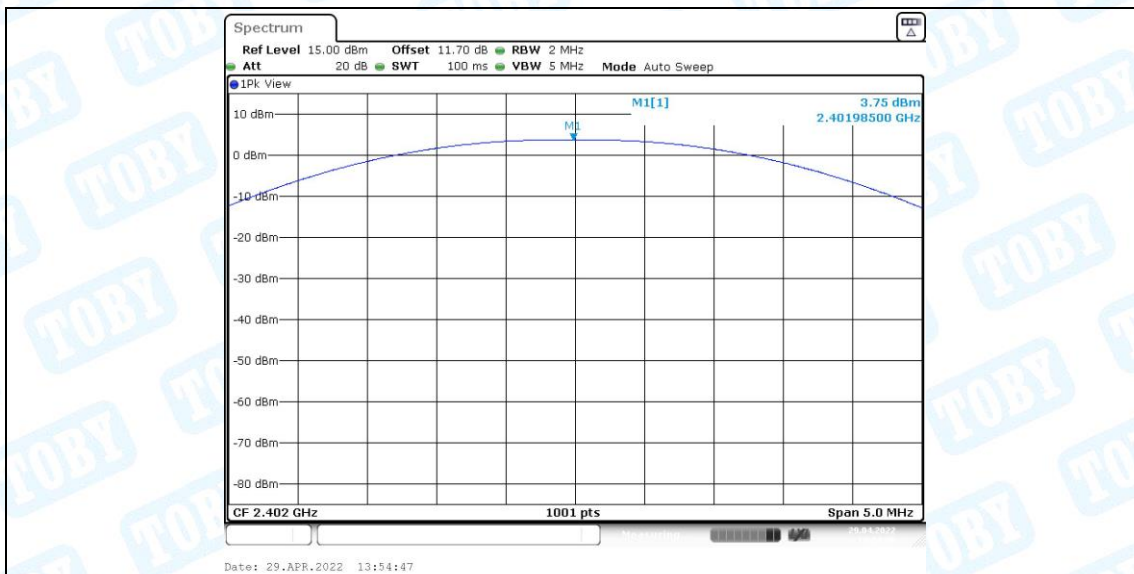
3DH5_Ant1_2480

3. Maximum conducted output power

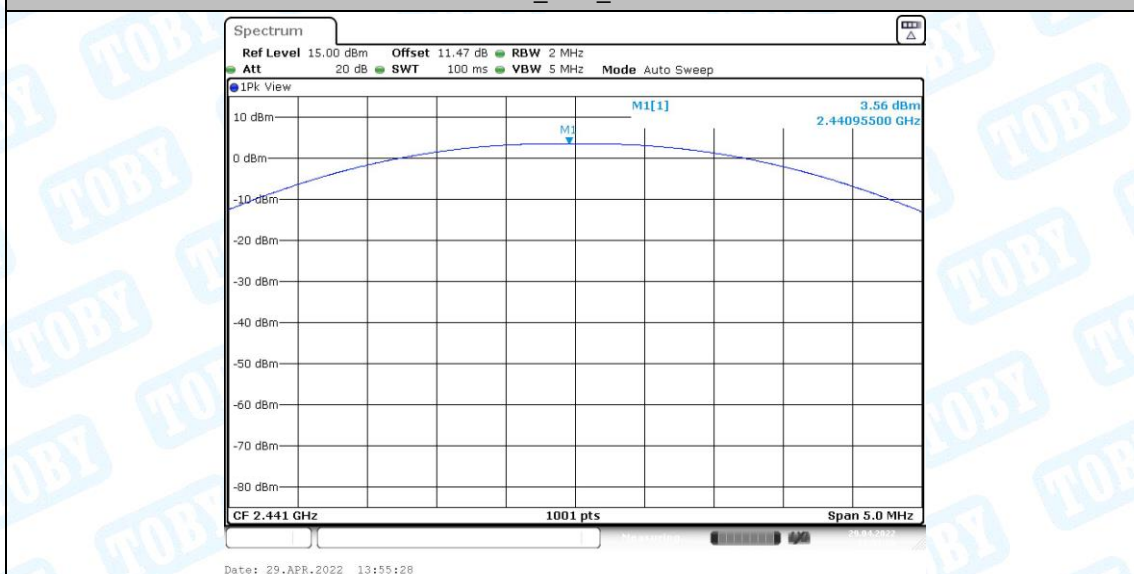
3.1. Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.75	≤20.97	PASS
		2441	3.56	≤20.97	PASS
		2480	3.5	≤20.97	PASS
2DH5	Ant1	2402	0.47	≤20.97	PASS
		2441	0.02	≤20.97	PASS
		2480	-0.24	≤20.97	PASS
3DH5	Ant1	2402	0.93	≤20.97	PASS
		2441	0.45	≤20.97	PASS
		2480	0.21	≤20.97	PASS

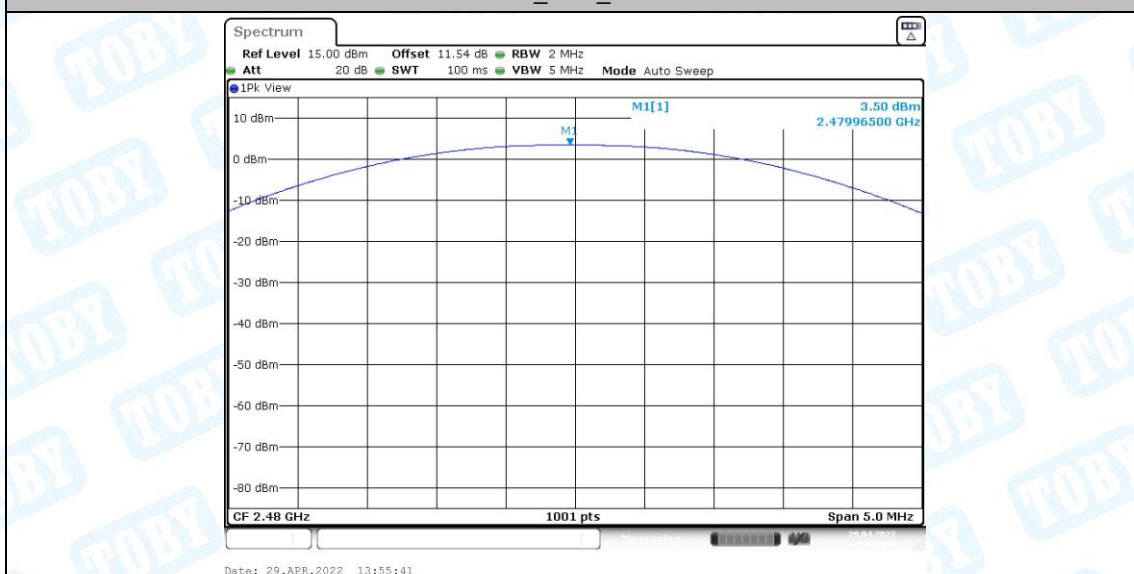
3.2. Test Graphs



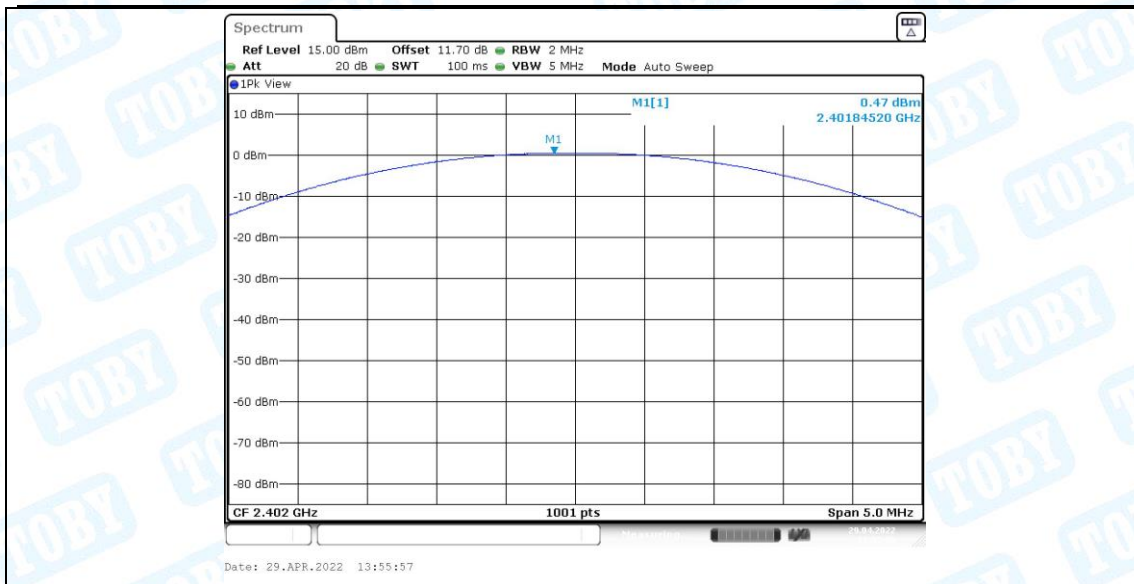
DH5_Ant1_2402



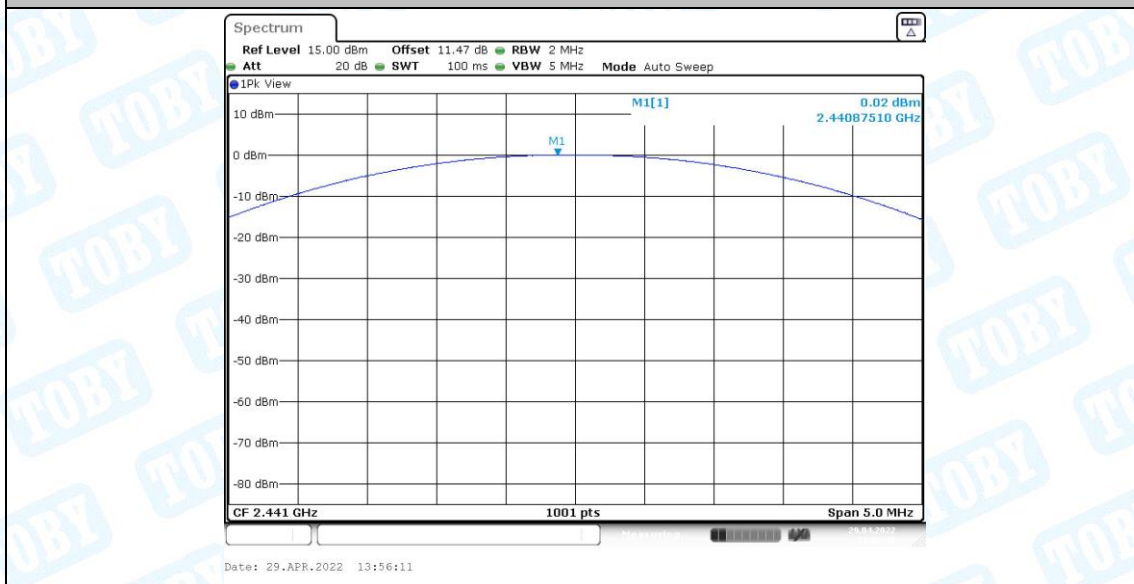
DH5_Ant1_2441



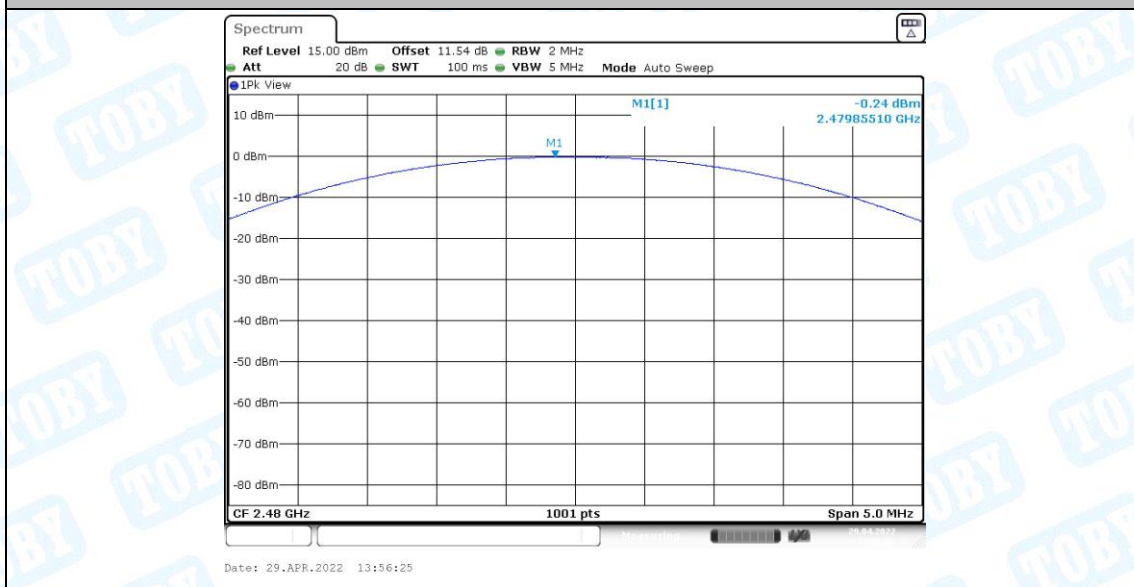
DH5_Ant1_2480



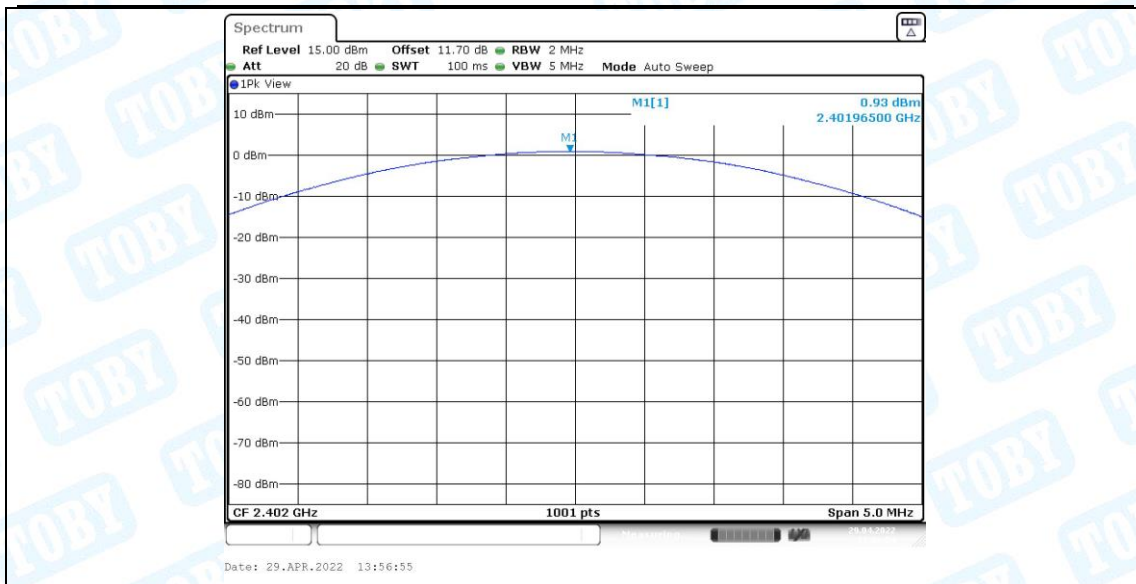
2DH5_Ant1_2402



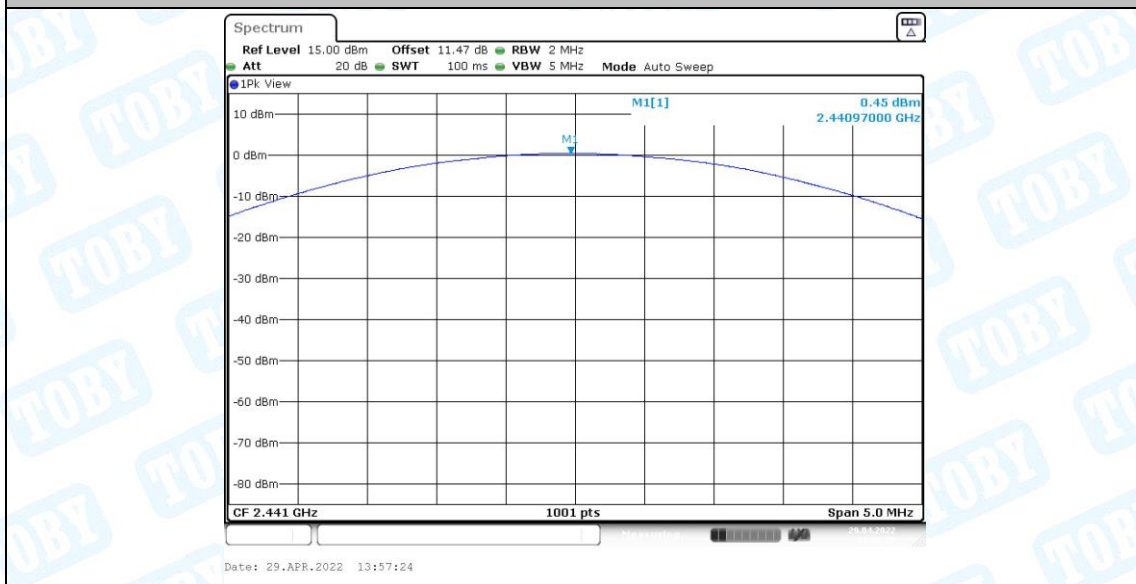
2DH5_Ant1_2441



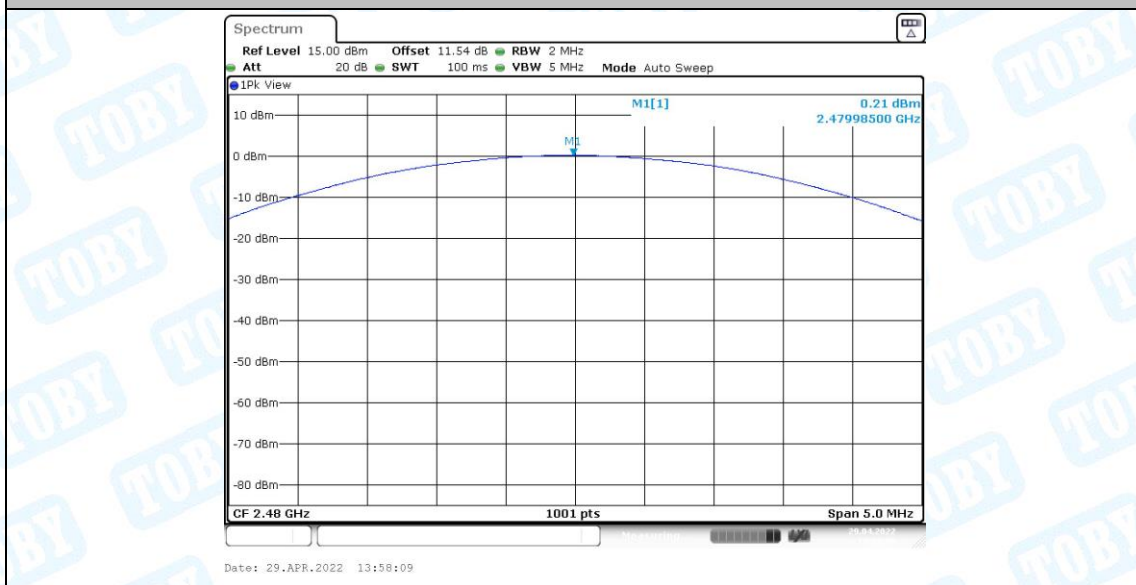
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



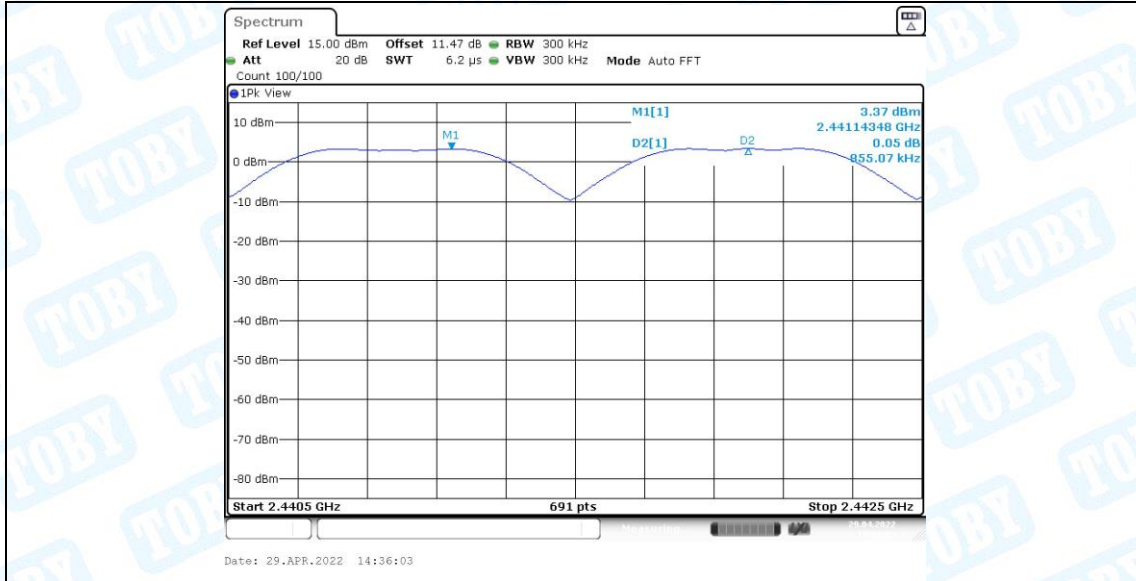
3DH5_Ant1_2480

4. Carrier frequency separation

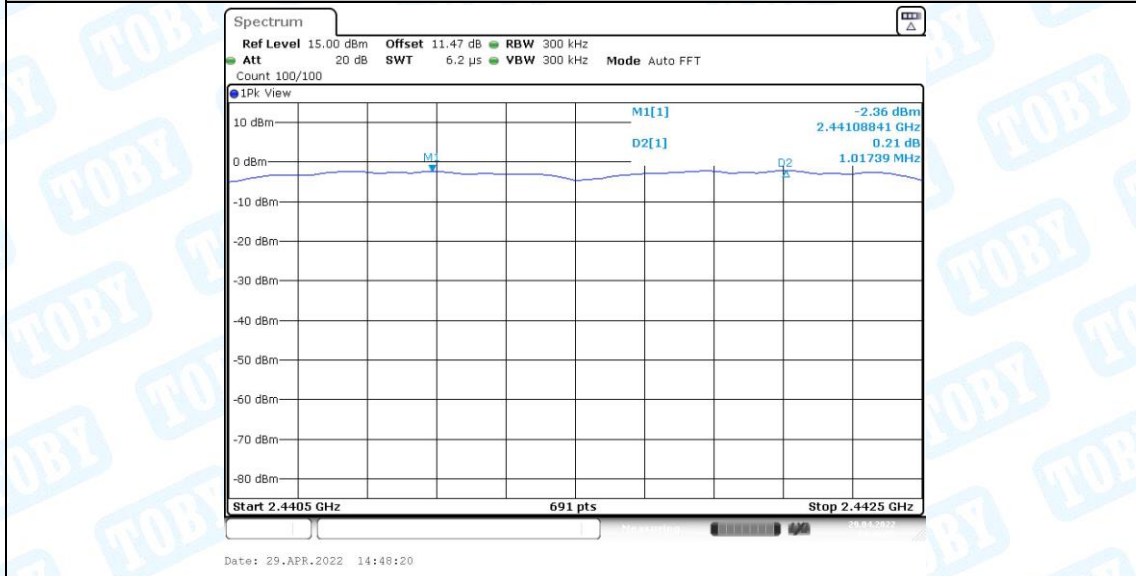
4.1. Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.855	≥ 0.693	PASS
2DH5	Ant1	Hop	1.017	≥ 0.907	PASS
3DH5	Ant1	Hop	1.099	≥ 0.887	PASS

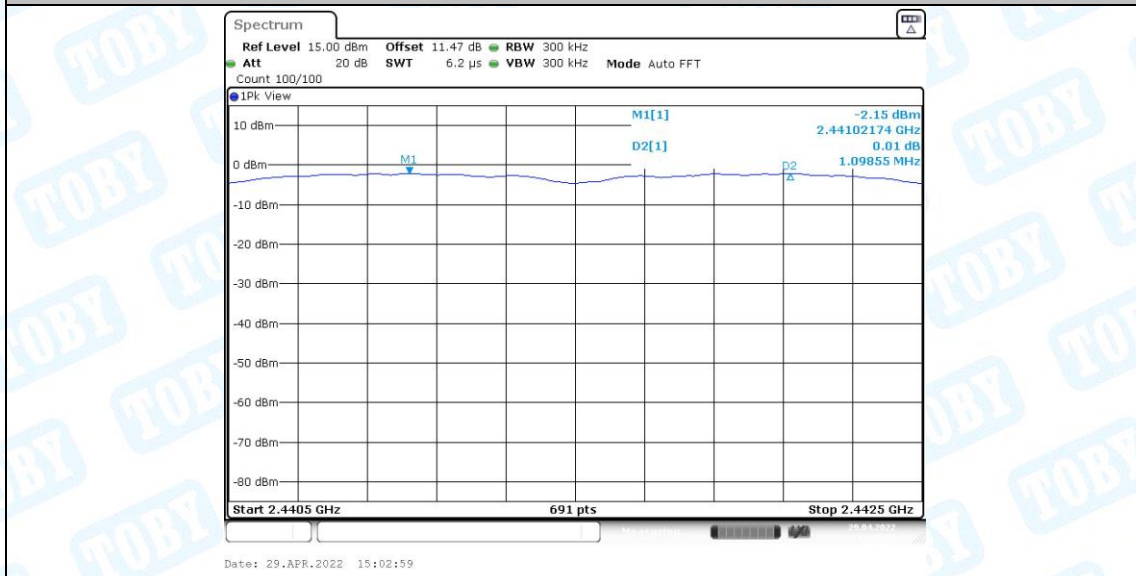
4.2.Test Graphs



DH5_Ant1_Hop



2DH5_Ant1_Hop



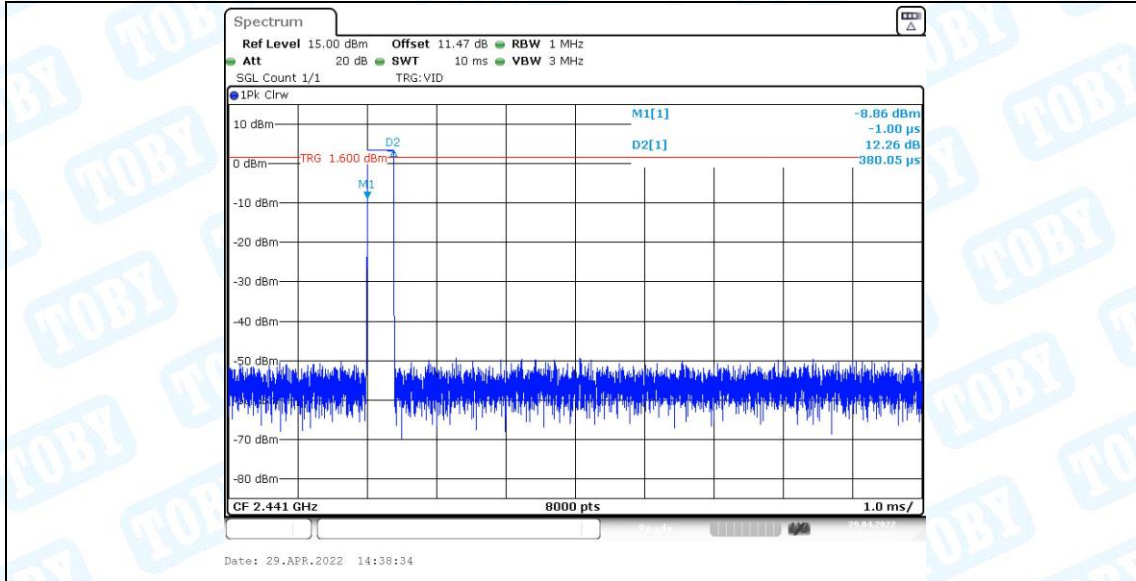
3DH5_Ant1_Hop

5. Time of occupancy

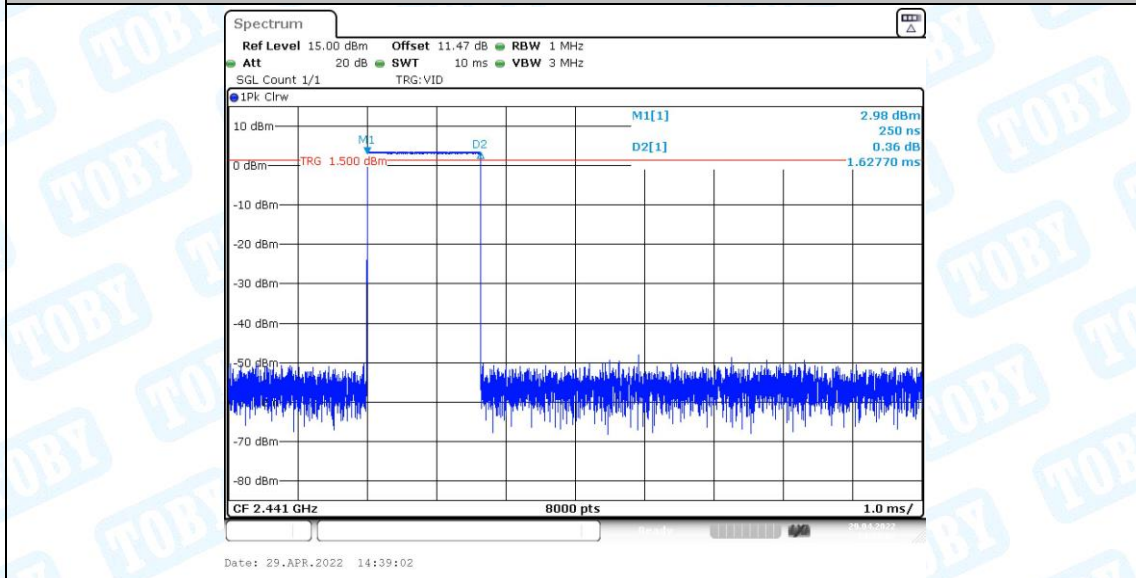
5.1. Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	320	0.122	≤0.4	PASS
DH3	Ant1	Hop	1.63	160	0.26	≤0.4	PASS
DH5	Ant1	Hop	2.87	106.67	0.306	≤0.4	PASS
2DH1	Ant1	Hop	0.39	320	0.123	≤0.4	PASS
2DH3	Ant1	Hop	1.63	160	0.261	≤0.4	PASS
2DH5	Ant1	Hop	2.87	106.67	0.306	≤0.4	PASS
3DH1	Ant1	Hop	0.39	320	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.63	160	0.261	≤0.4	PASS
3DH5	Ant1	Hop	2.87	106.67	0.306	≤0.4	PASS

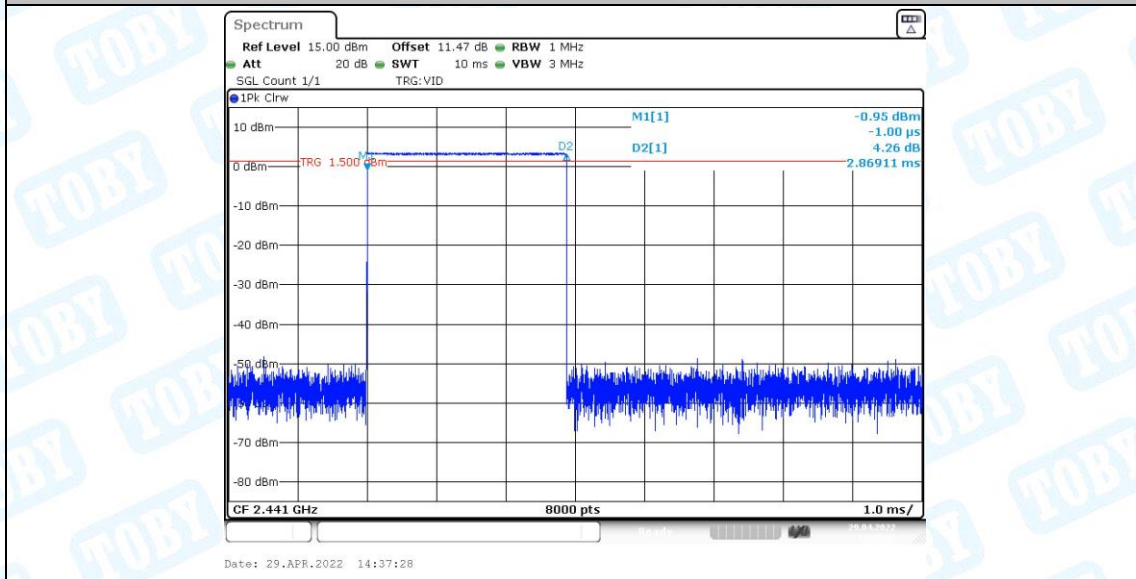
5.2.Test Graphs



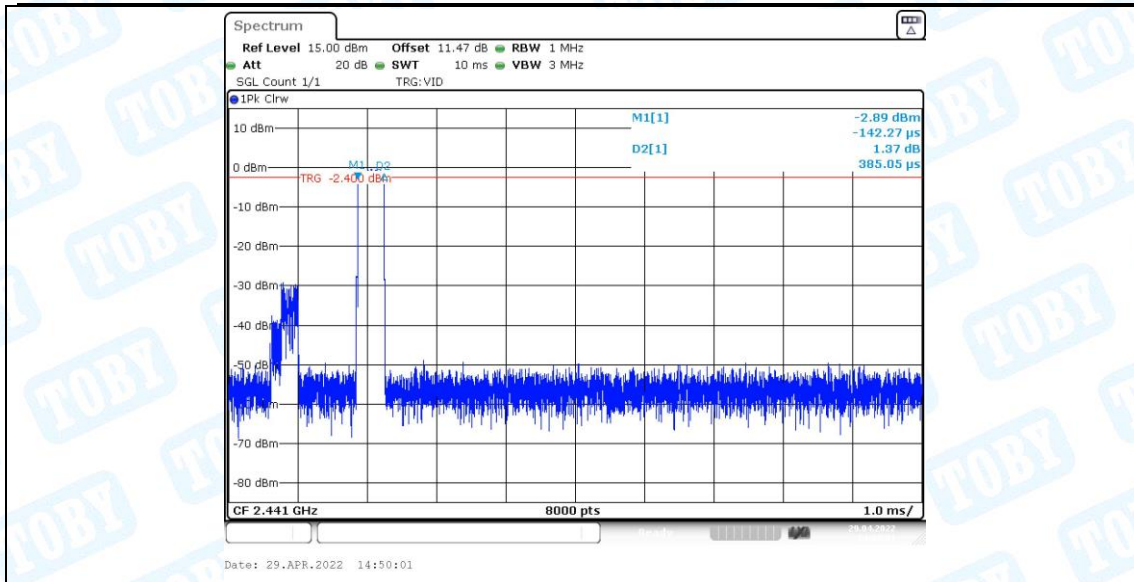
DH1_Ant1_Hop



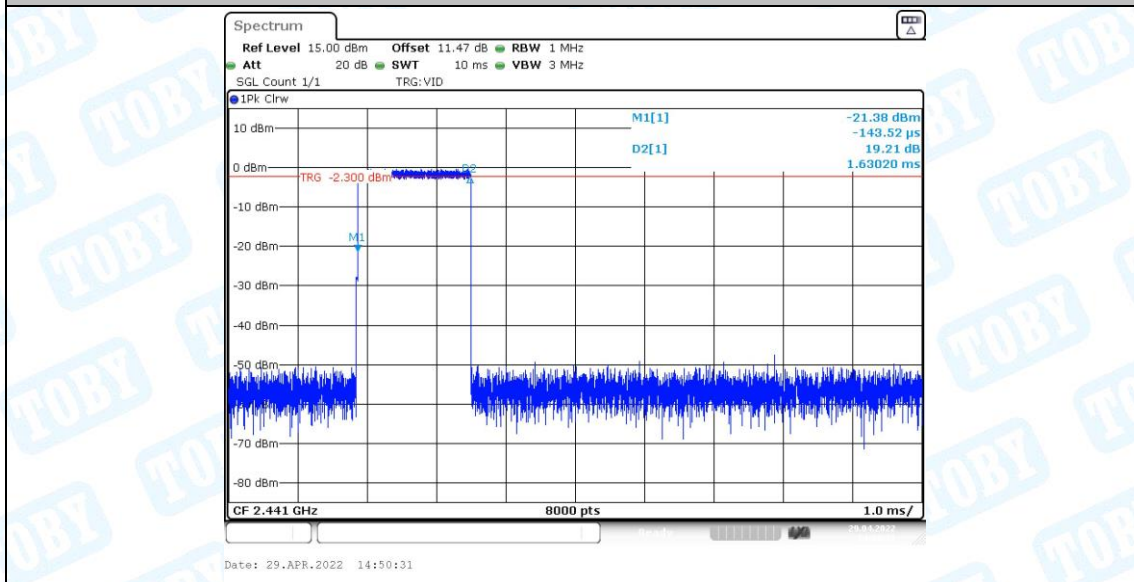
DH3_Ant1_Hop



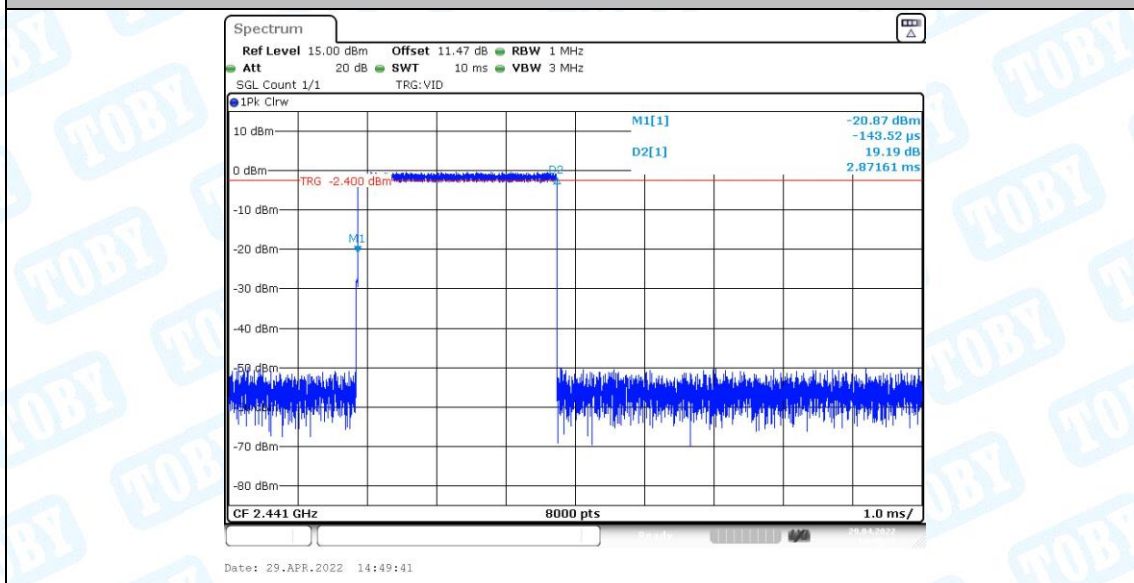
DH5_Ant1_Hop



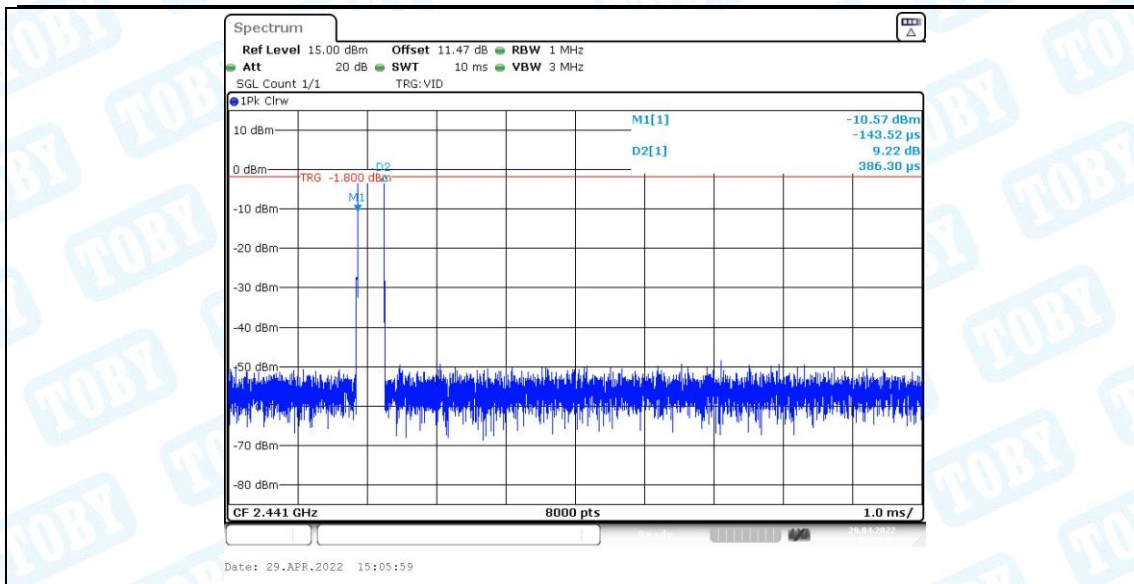
2DH1_Ant1_Hop



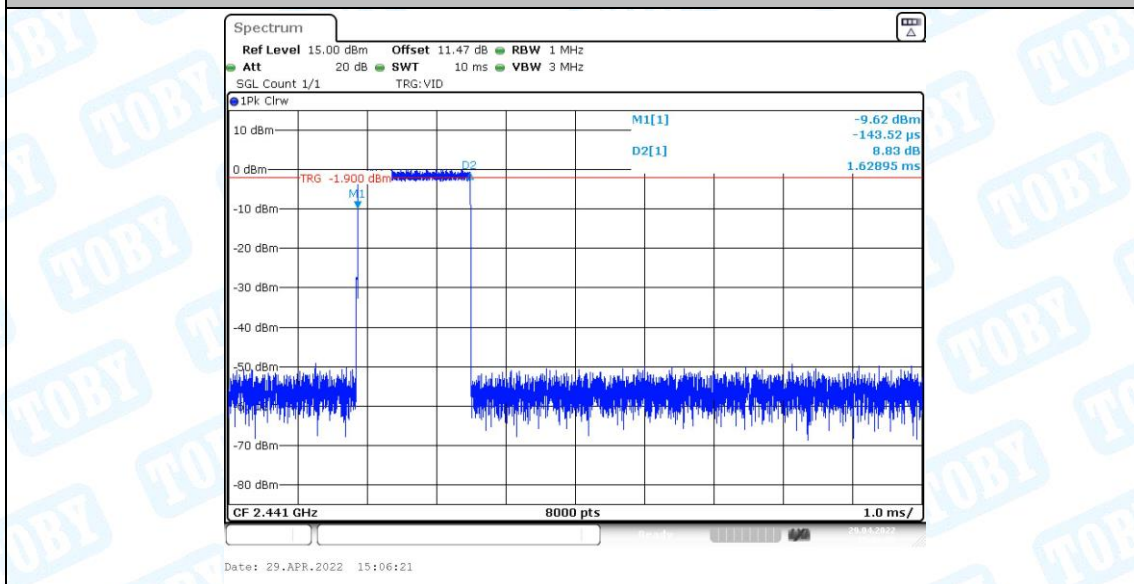
2DH3_Ant1_Hop



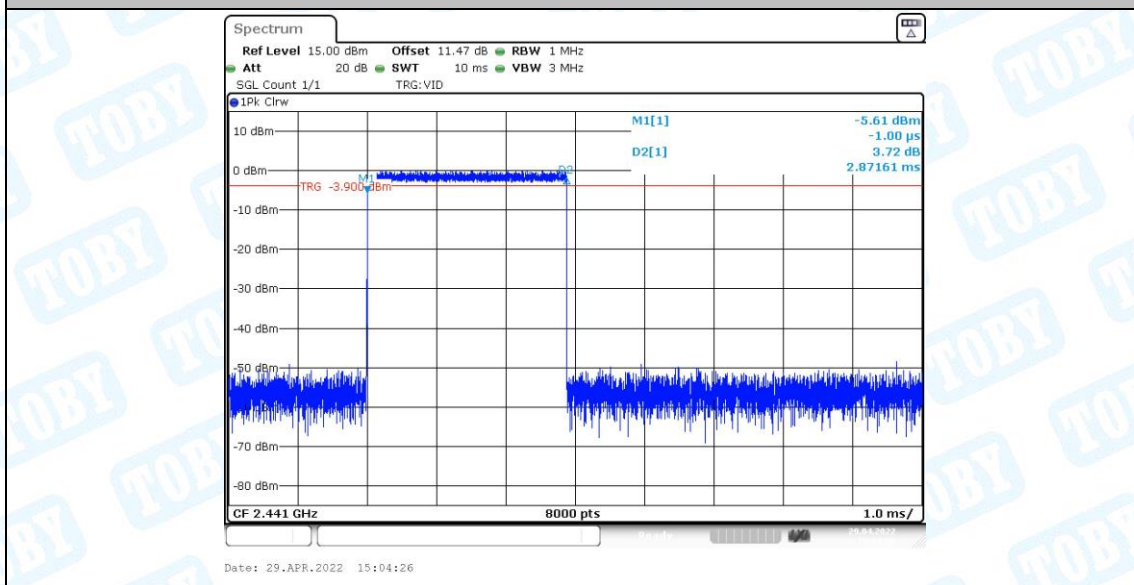
2DH5_Ant1_Hop



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	6.19	-54.86	≤ -13.81	PASS
		High	2480	5.66	-55.77	≤ -14.34	PASS
		Low	Hop_2402	3.54	-57.33	≤ -16.46	PASS
		High	Hop_2480	3.17	-55.41	≤ -16.83	PASS
2DH5	Ant1	Low	2402	1.05	-55.61	≤ -18.95	PASS
		High	2480	0.62	-56.64	≤ -19.38	PASS
		Low	Hop_2402	-2.75	-57.82	≤ -22.75	PASS
		High	Hop_2480	-2.24	-55.82	≤ -22.24	PASS
3DH5	Ant1	Low	2402	-1.74	-57.97	≤ -21.74	PASS
		High	2480	-2.54	-56.52	≤ -22.54	PASS
		Low	Hop_2402	-2.01	-57.17	≤ -22.01	PASS
		High	Hop_2480	-2.75	-54.44	≤ -22.75	PASS