

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

General Description of EUT	
Product Name:	Ostinato M7
Test Model:	Ostinato M7
Sample ID:	202207-0044-1-2#
Environmental Conditions	
Temperature:	25°C
Relative Humidity:	55%
Test Voltage:	DC 5V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202207-0044-1	

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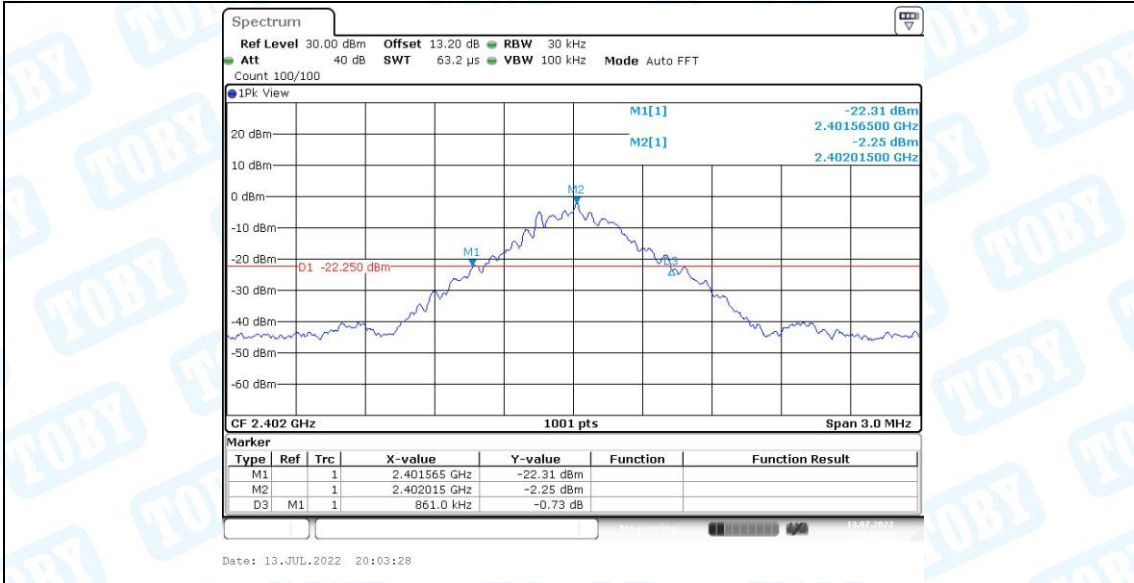
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1. 20dB Emission Bandwidth

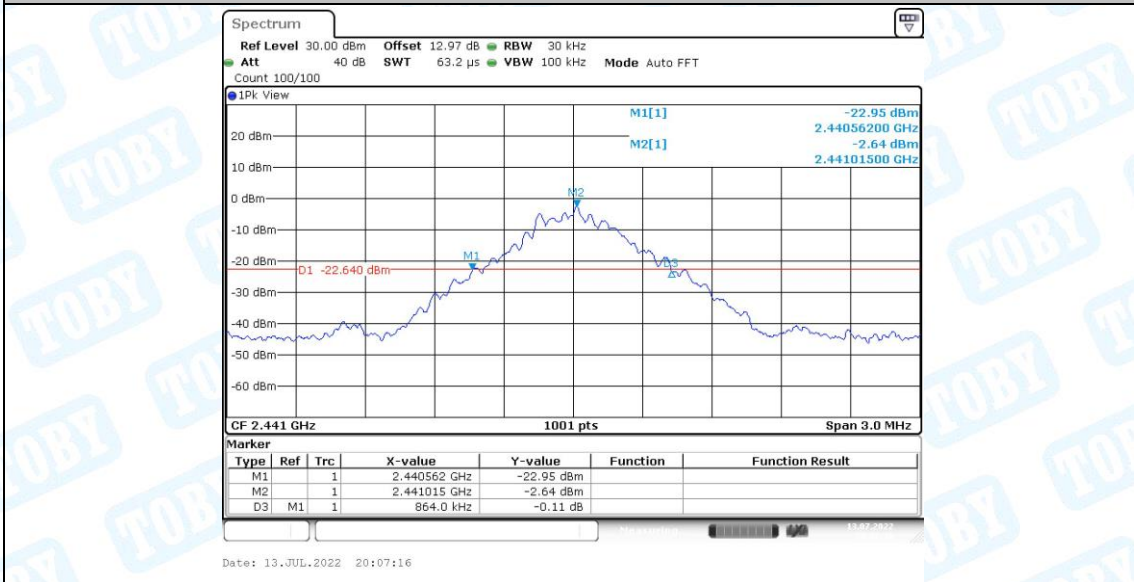
1.1. Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86	---	---
		2441	0.86	---	---
		2480	0.86	---	---
2DH5	Ant1	2402	1.23	---	---
		2441	1.23	---	---
		2480	1.23	---	---

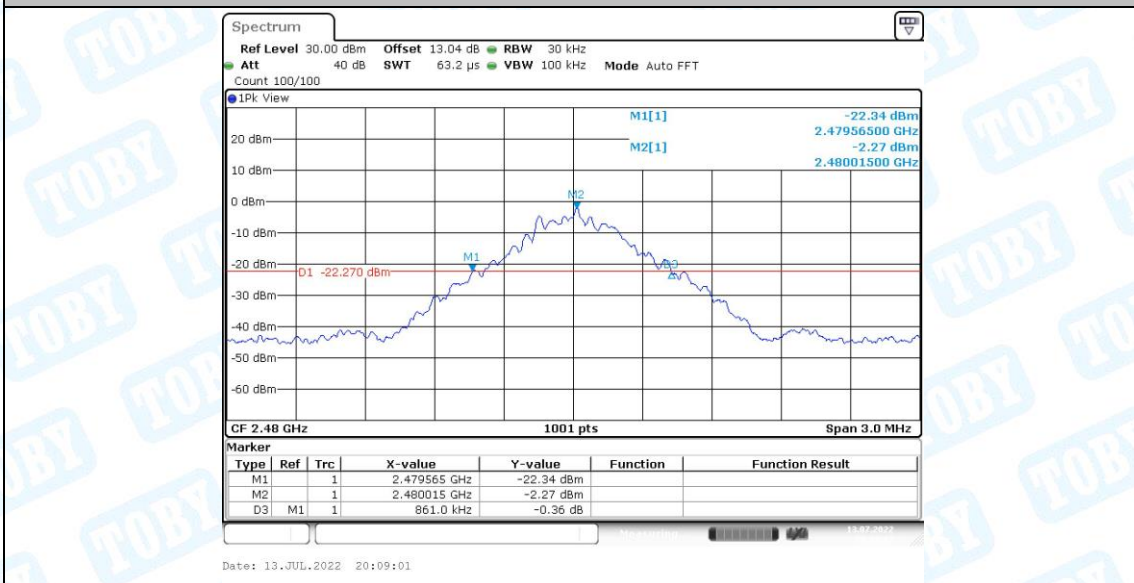
1.2. Test Graphs



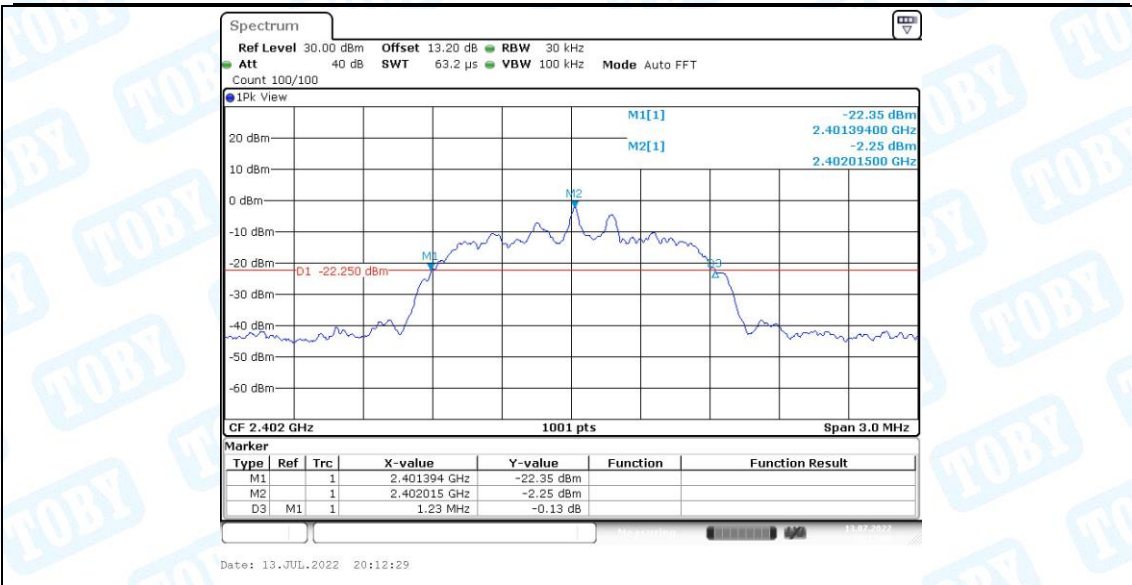
DH5_Ant1_2402



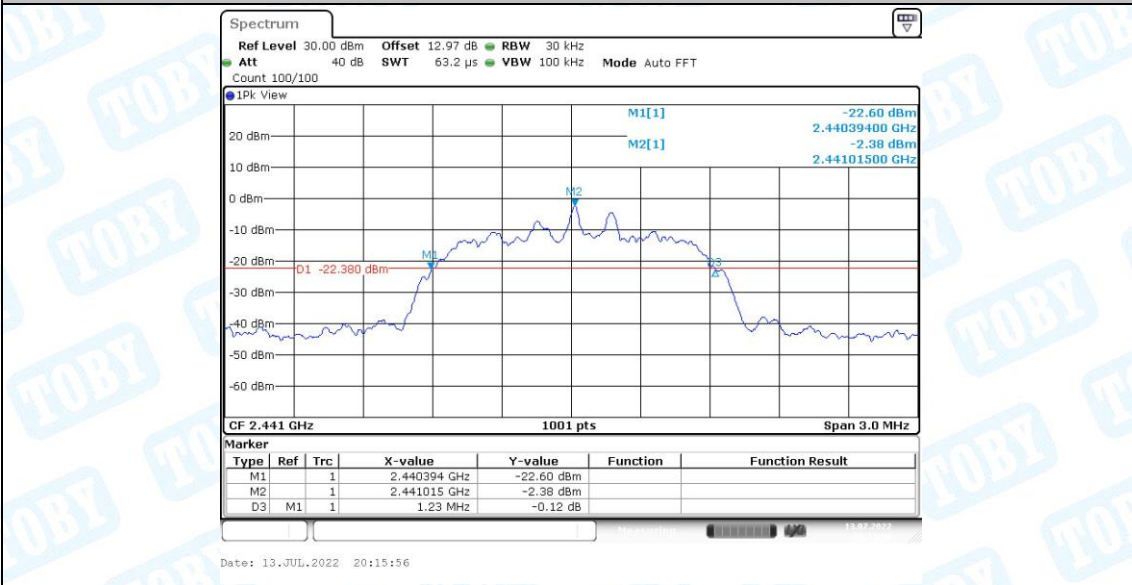
DH5_Ant1_2441



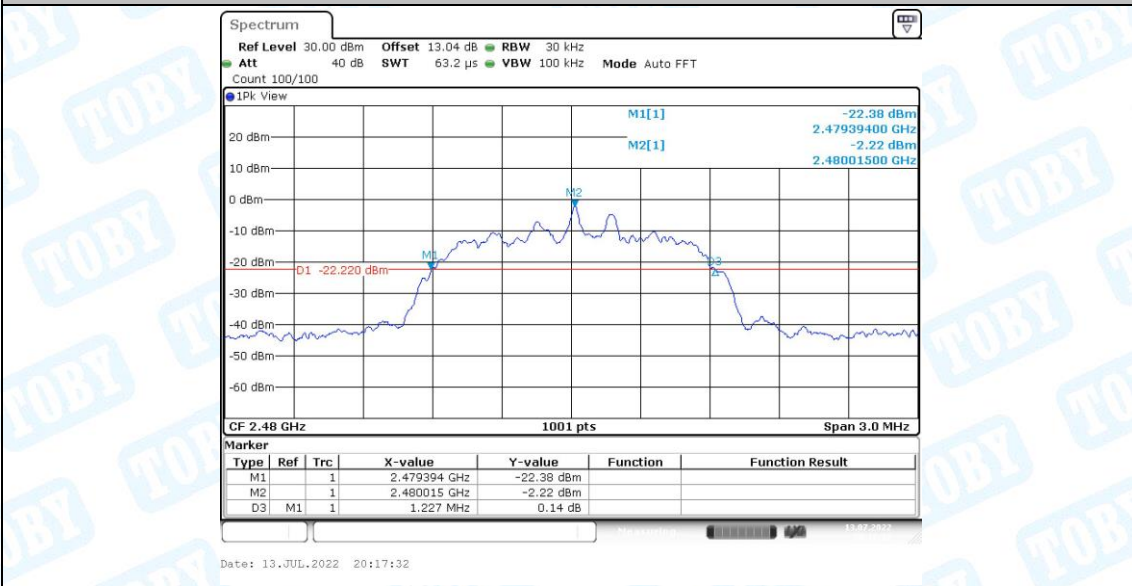
DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



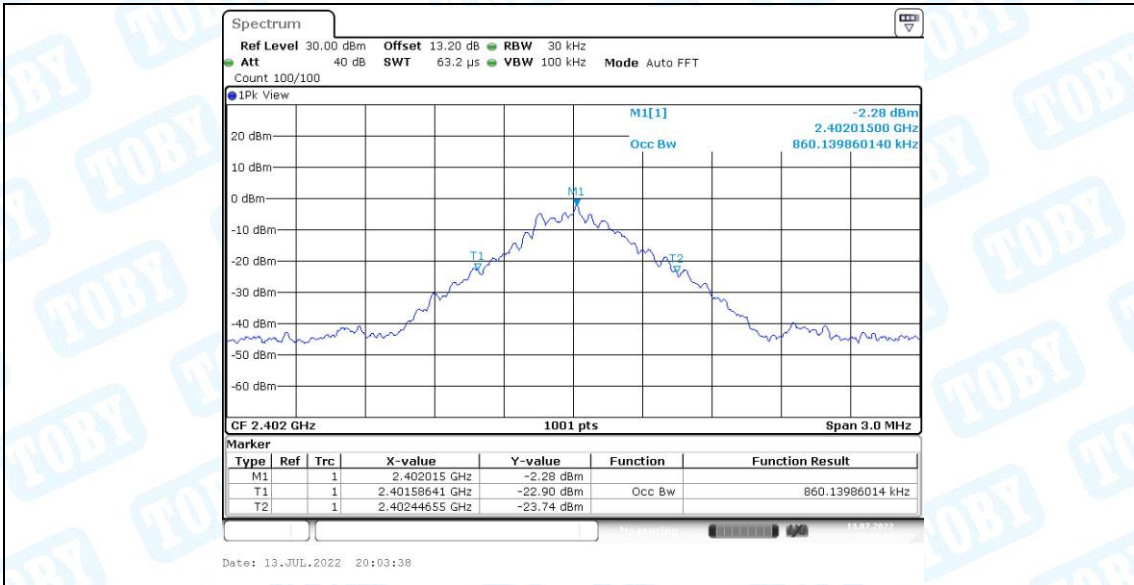
2DH5_Ant1_2480

2. Occupied Channel Bandwidth

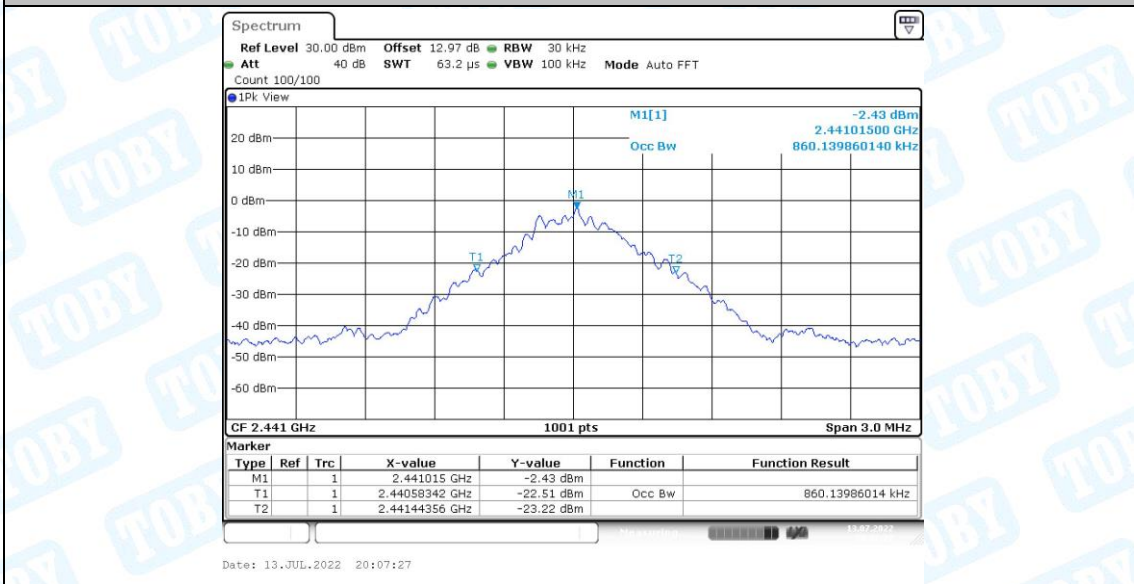
2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86	2401.586	2402.447	---	---
		2441	0.86	2440.583	2441.444	---	---
		2480	0.875	2479.580	2480.456	---	---
2DH5	Ant1	2402	1.172	2401.428	2402.599	---	---
		2441	1.175	2440.428	2441.602	---	---
		2480	1.175	2479.425	2480.599	---	---

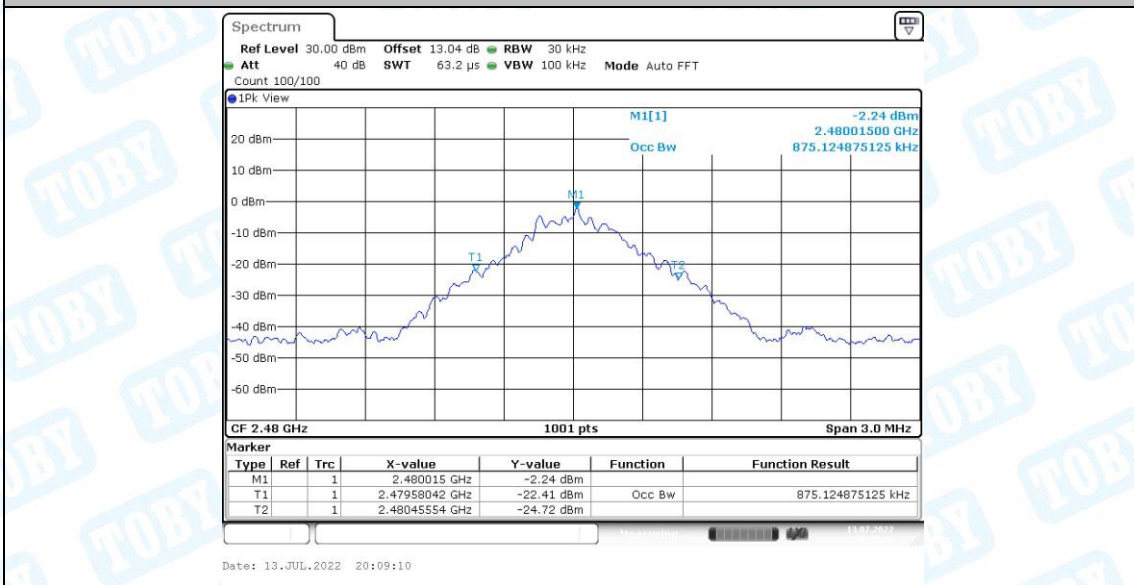
2.2. Test Graphs



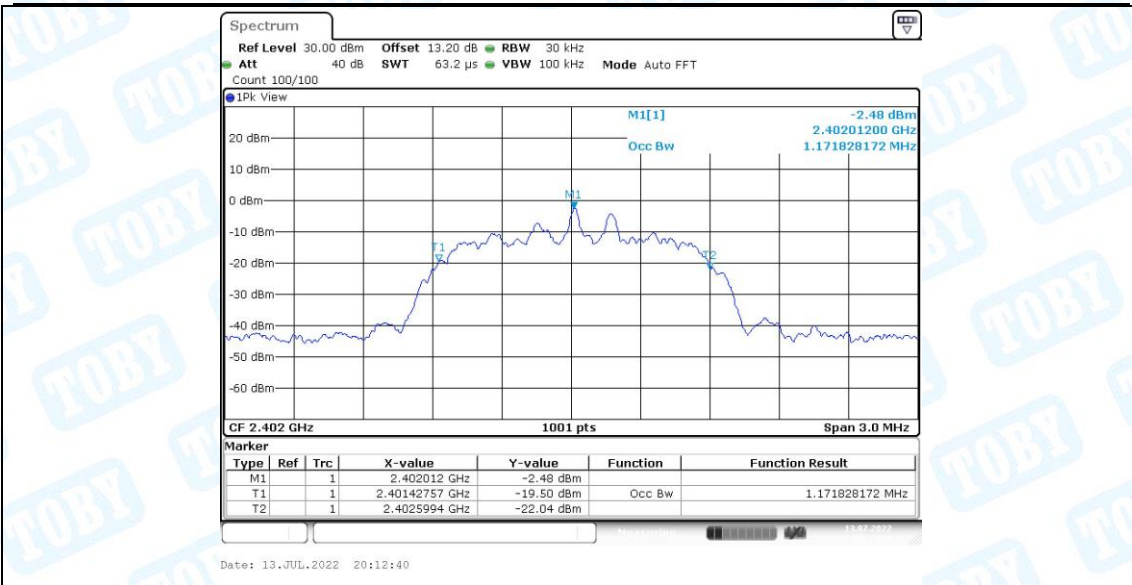
DH5_Ant1_2402



DH5_Ant1_2441



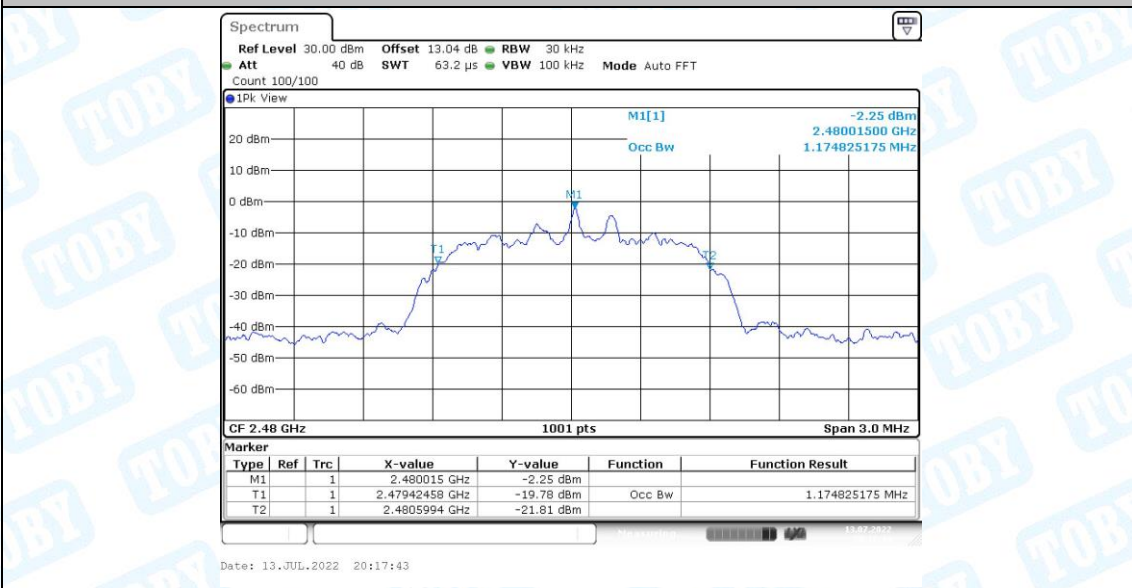
DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



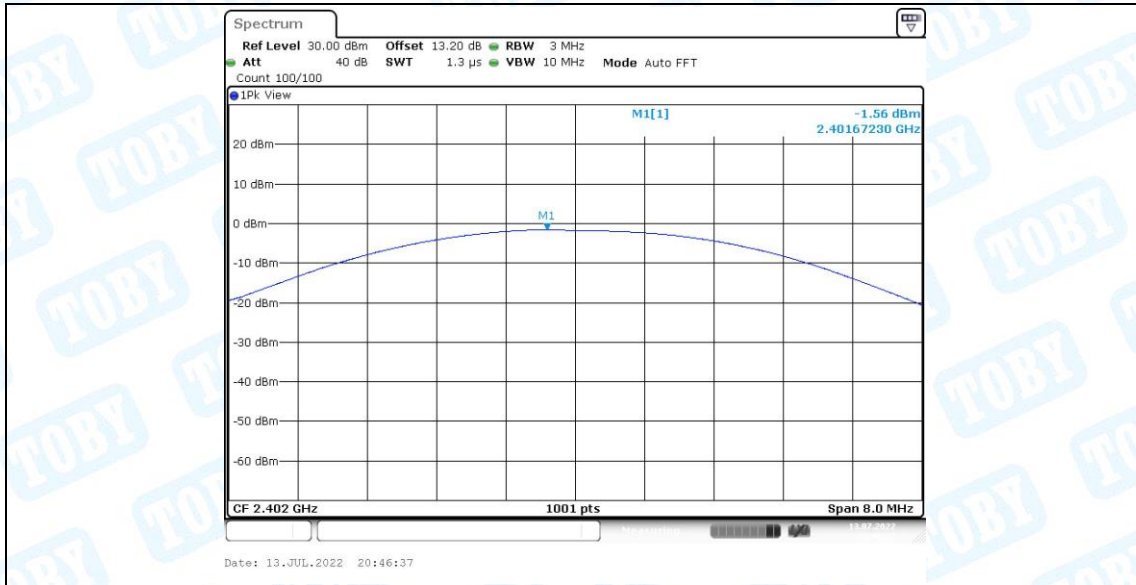
2DH5_Ant1_2480

3. Maximum conducted output power

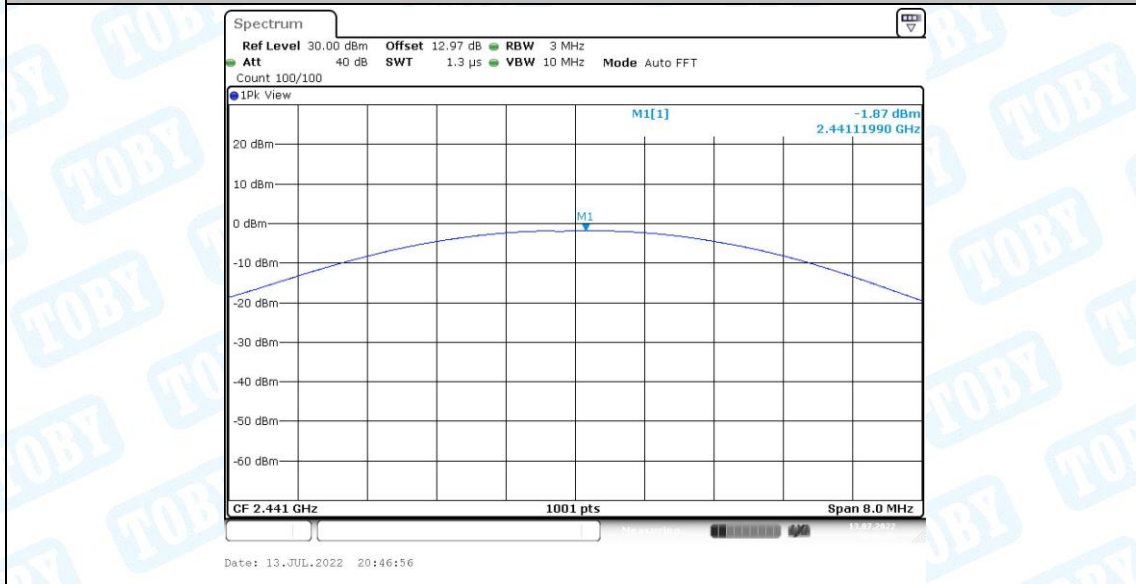
3.1. Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-1.56	≤30	PASS
		2441	-1.87	≤30	PASS
		2480	-1.72	≤30	PASS
2DH5	Ant1	2402	-1.11	≤20.97	PASS
		2441	-1.06	≤20.97	PASS
		2480	-0.99	≤20.97	PASS

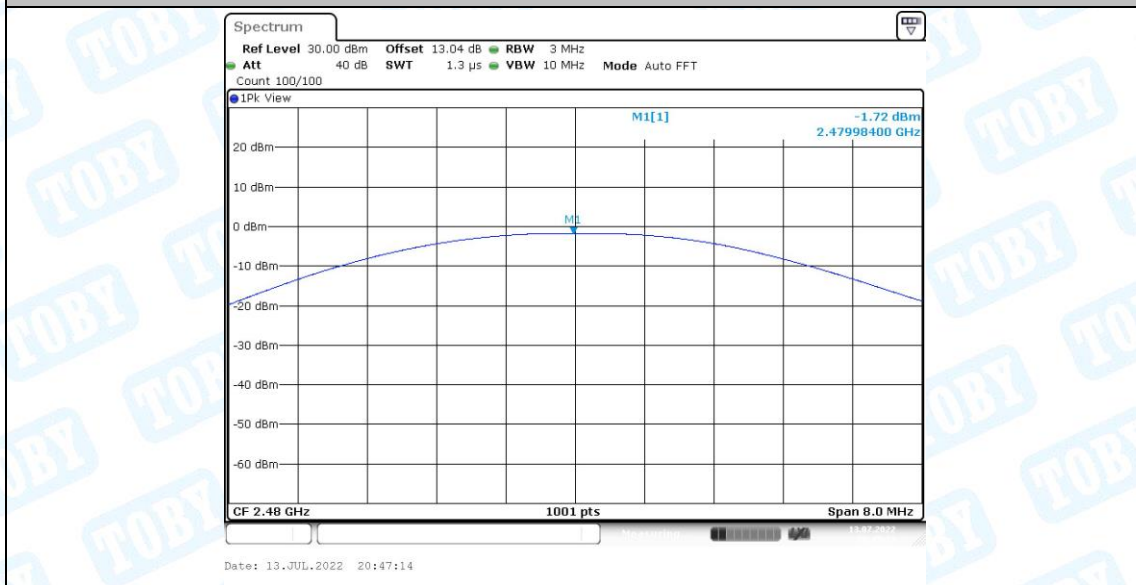
3.2. Test Graphs



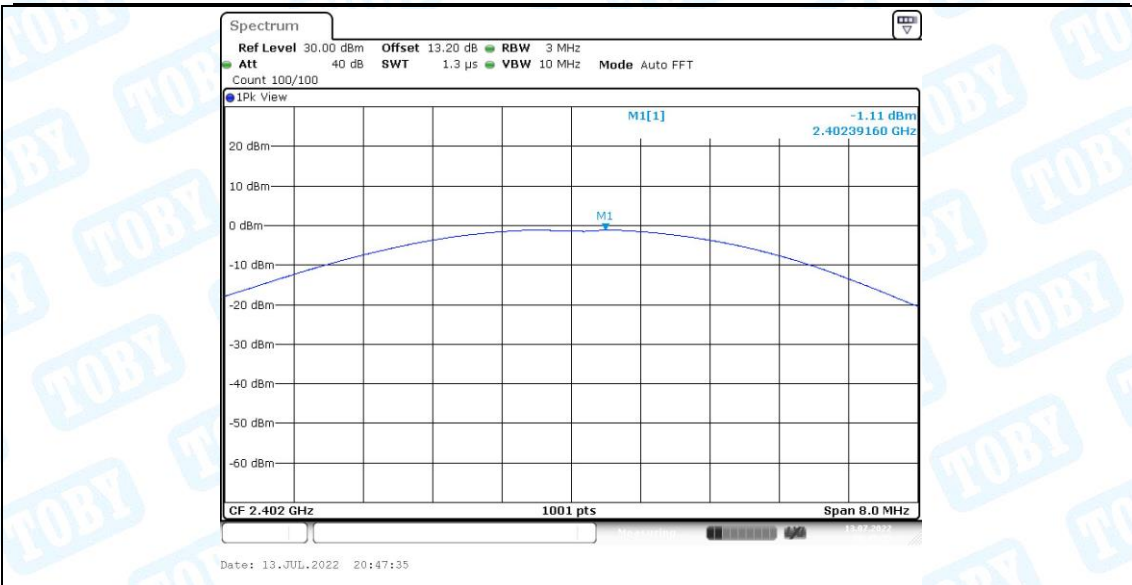
DH5_Ant1_2402



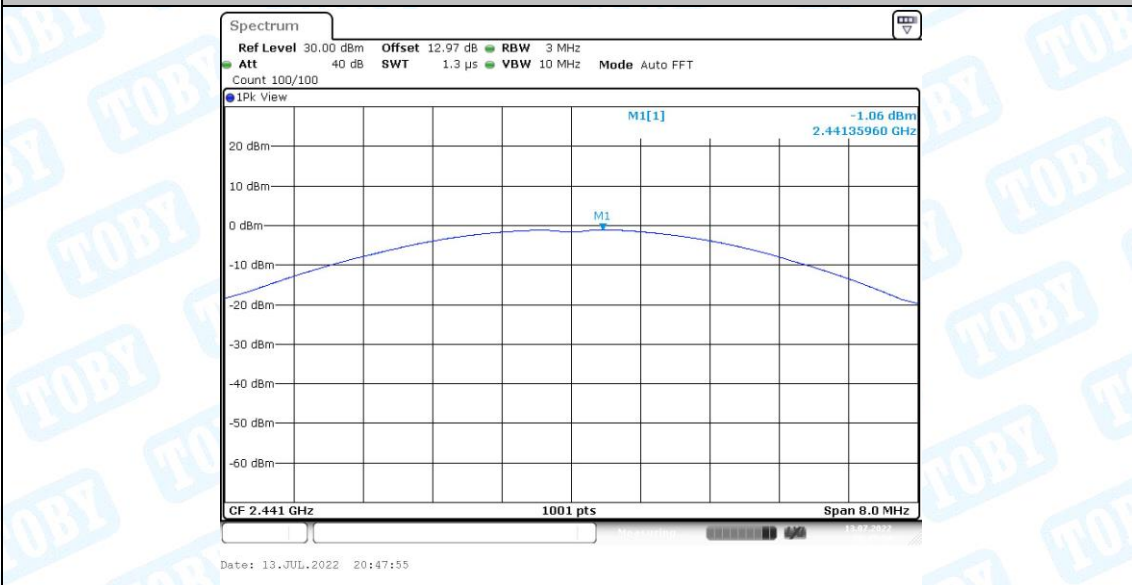
DH5_Ant1_2441



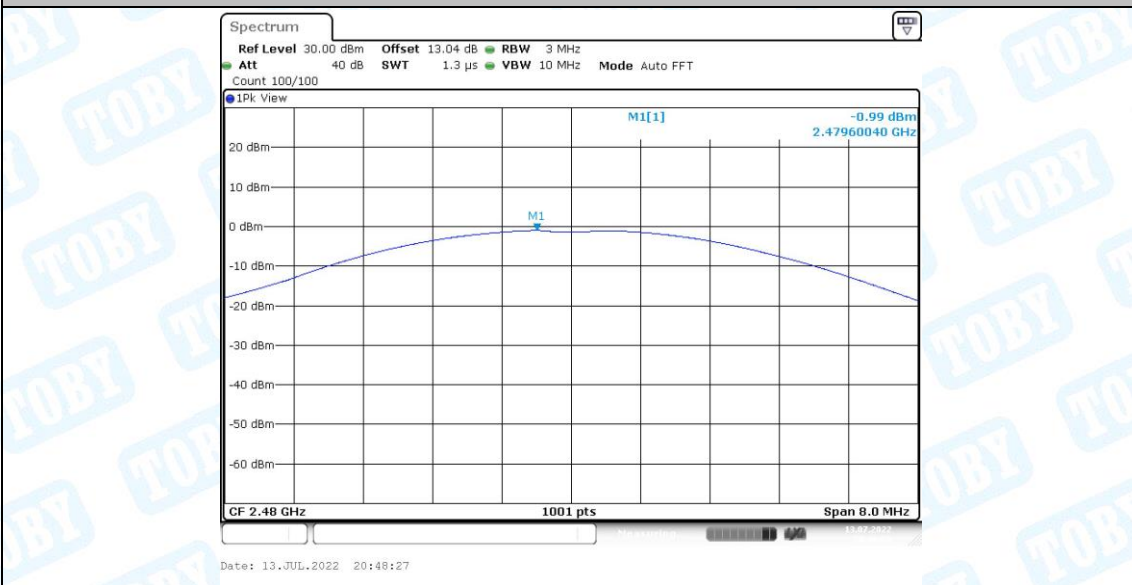
DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



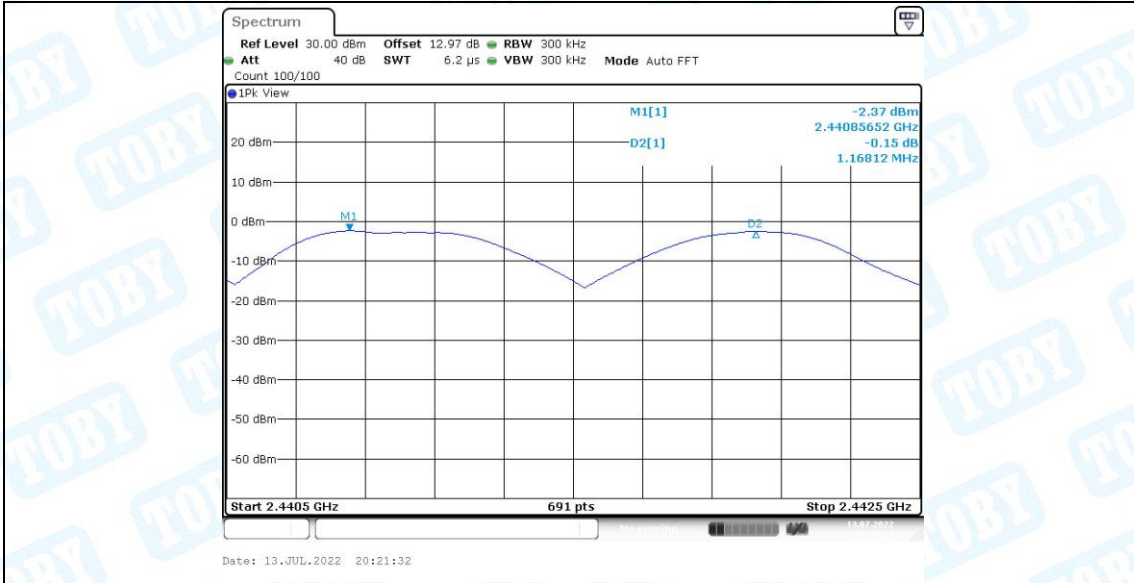
2DH5_Ant1_2480

4. Carrier frequency separation

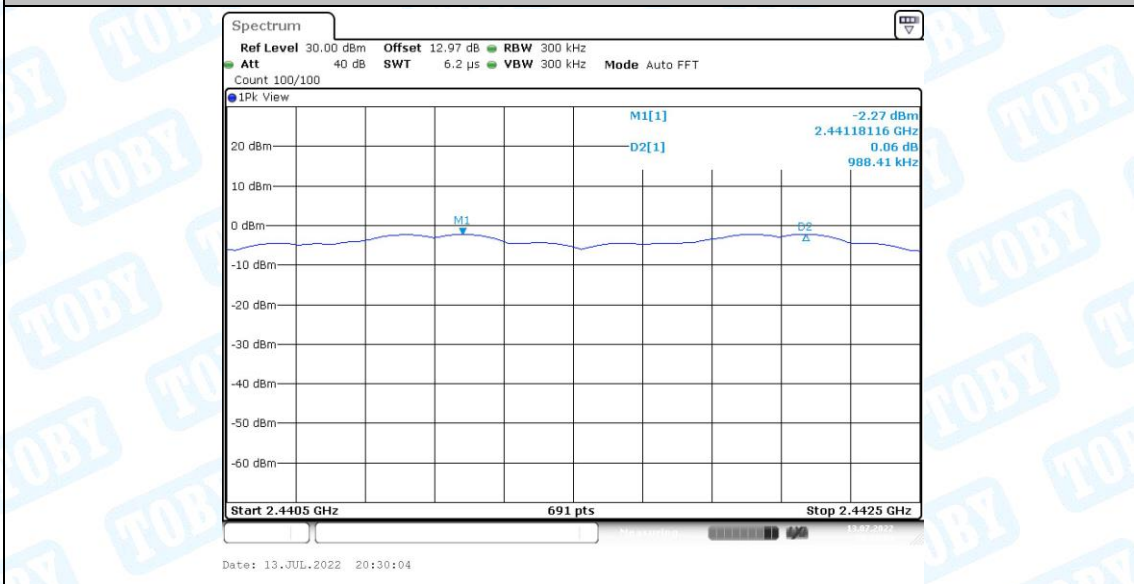
4.1. Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.168	≥0.860	PASS
2DH5	Ant1	Hop	0.988	≥0.820	PASS

4.2. Test Graphs



DH5_Ant1_Hop



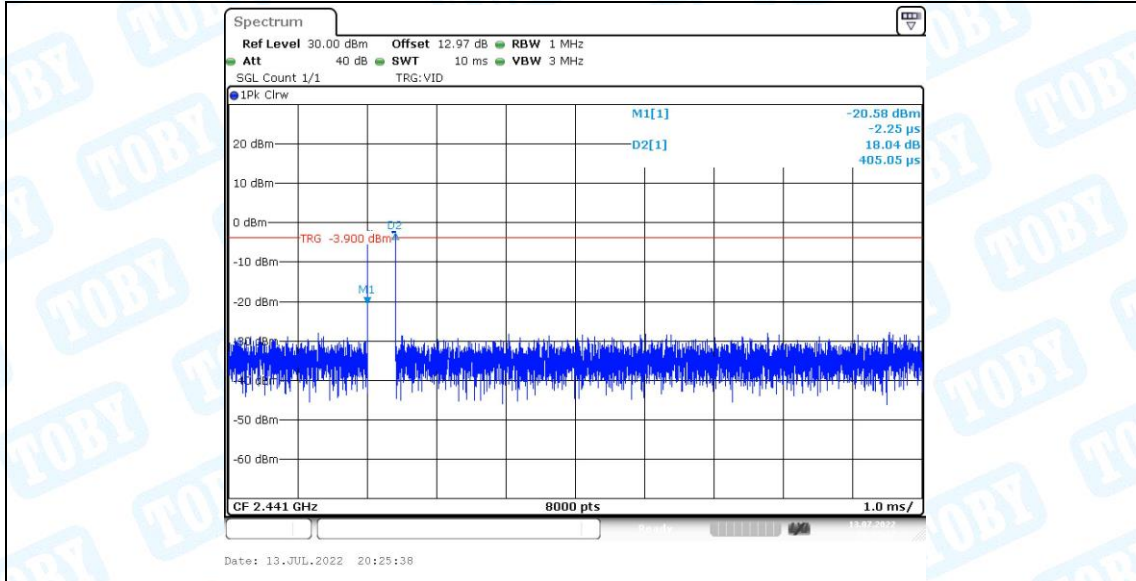
2DH5_Ant1_Hop

5. Time of occupancy

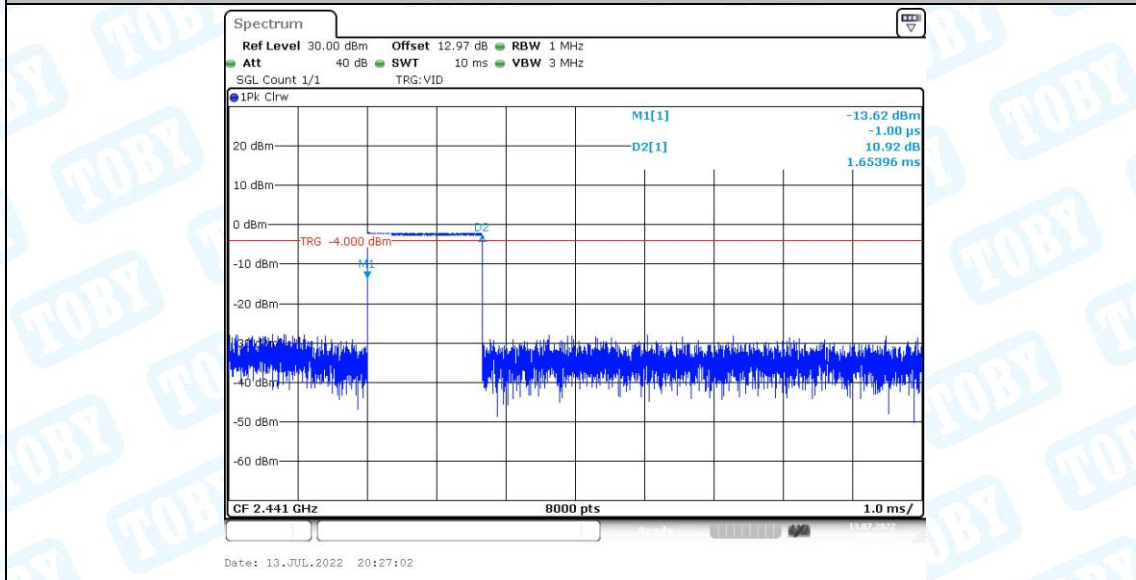
5.1. Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.41	320	0.13	≤0.4	PASS
DH3	Ant1	Hop	1.65	160	0.265	≤0.4	PASS
DH5	Ant1	Hop	2.89	106.67	0.309	≤0.4	PASS
2DH1	Ant1	Hop	0.42	320	0.133	≤0.4	PASS
2DH3	Ant1	Hop	1.66	160	0.265	≤0.4	PASS
2DH5	Ant1	Hop	2.90	106.67	0.309	≤0.4	PASS

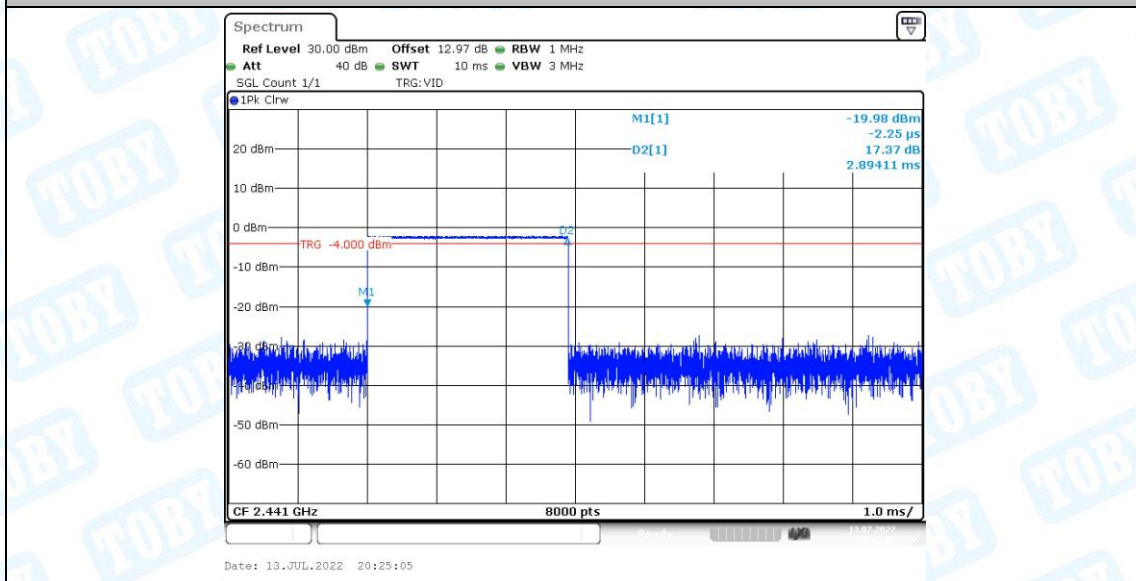
5.2. Test Graphs



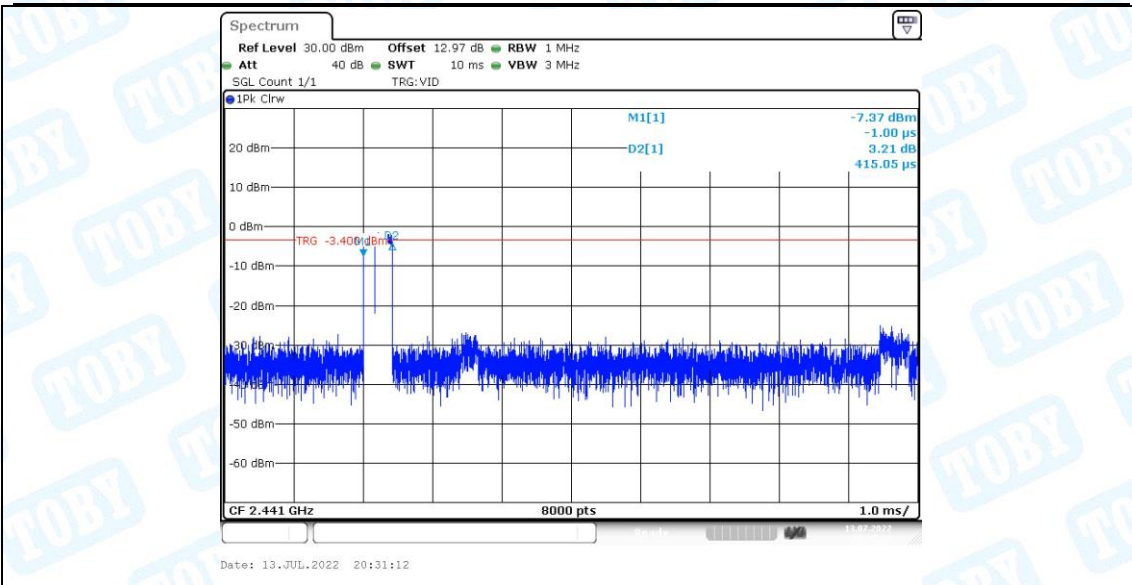
DH1_Ant1_Hop



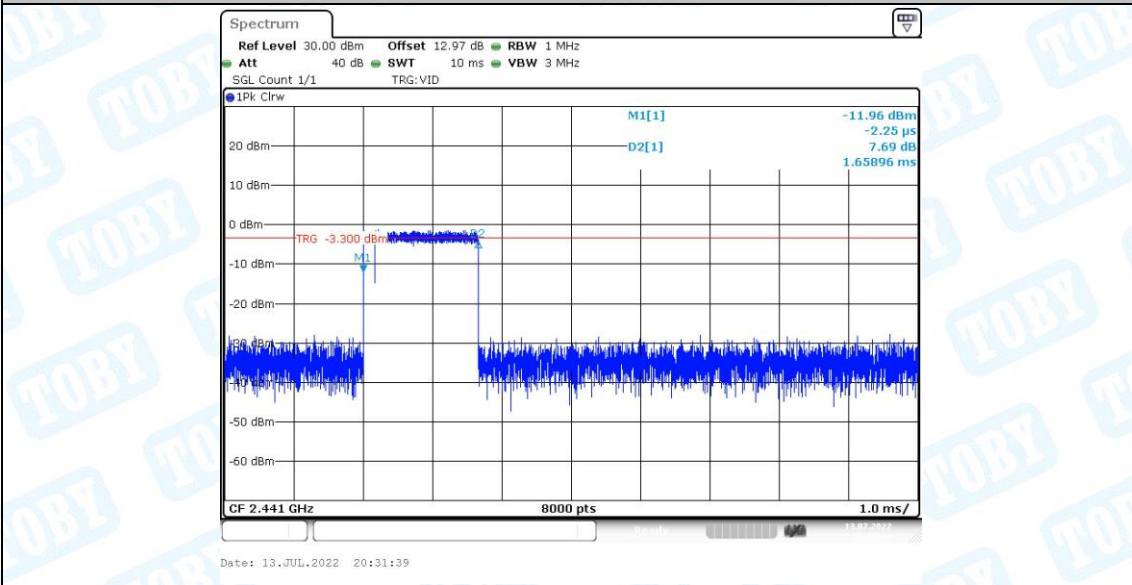
DH3_Ant1_Hop



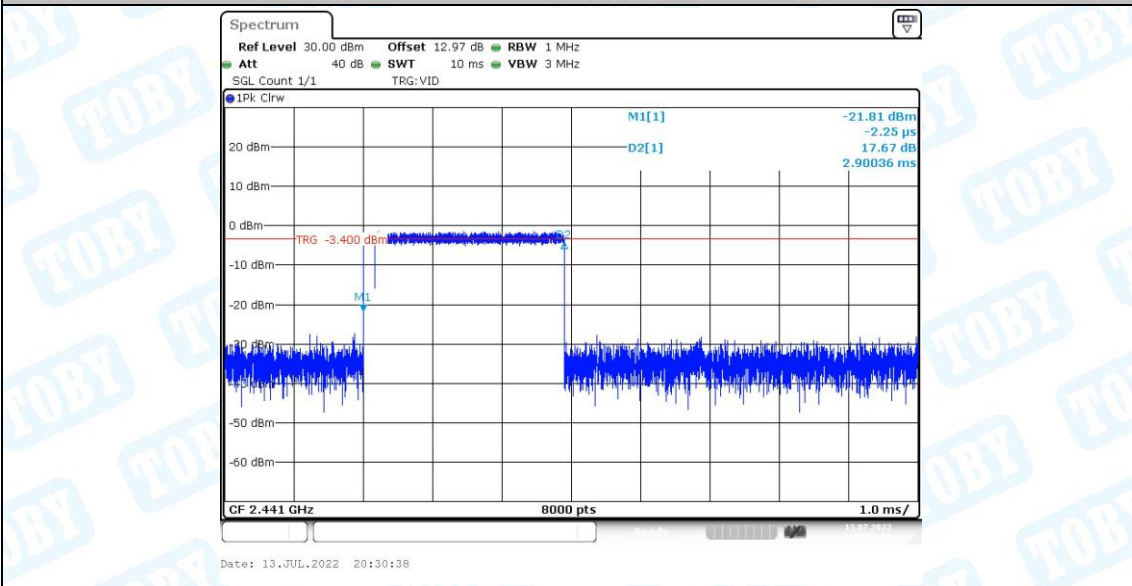
DH5_Ant1_Hop



2DH1_Ant1_Hop



2DH3_Ant1_Hop



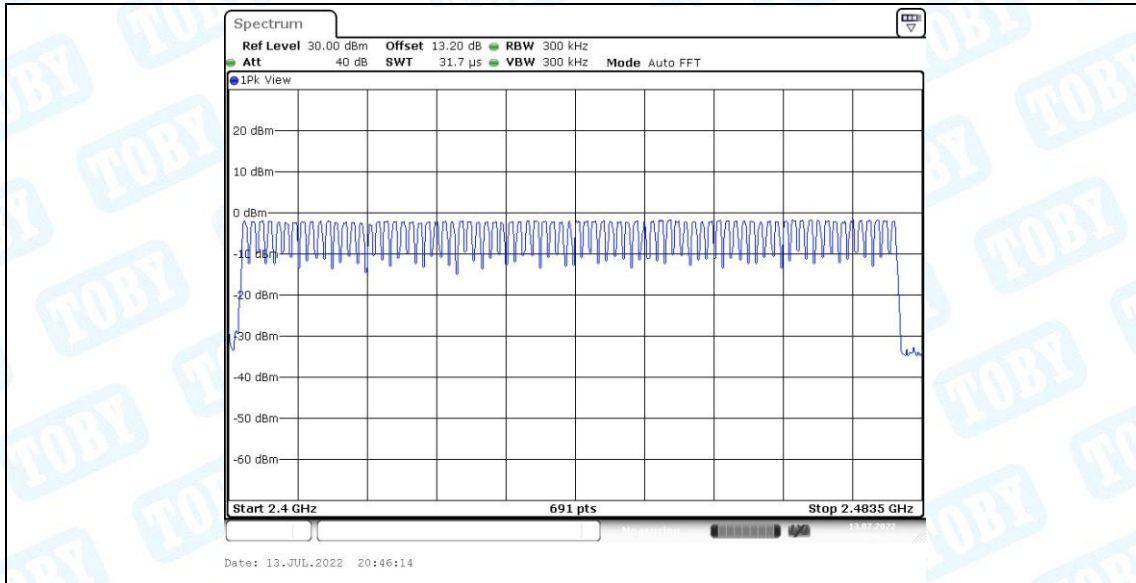
2DH5_Ant1_Hop

6. Number of hopping channels

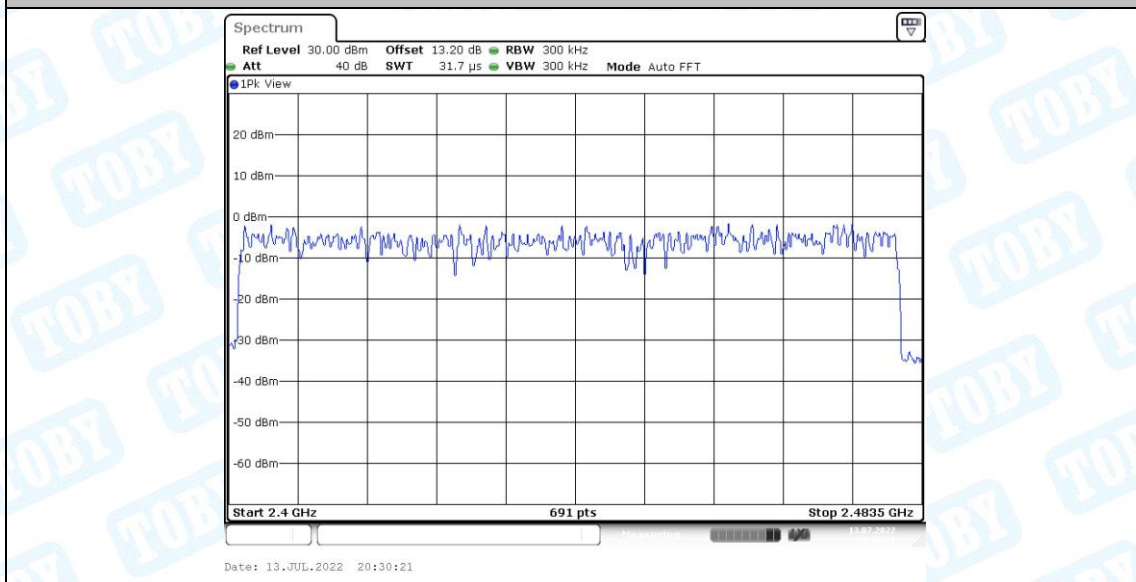
6.1. Test Result

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

6.2. Test Graphs



DH5_Ant1_Hop



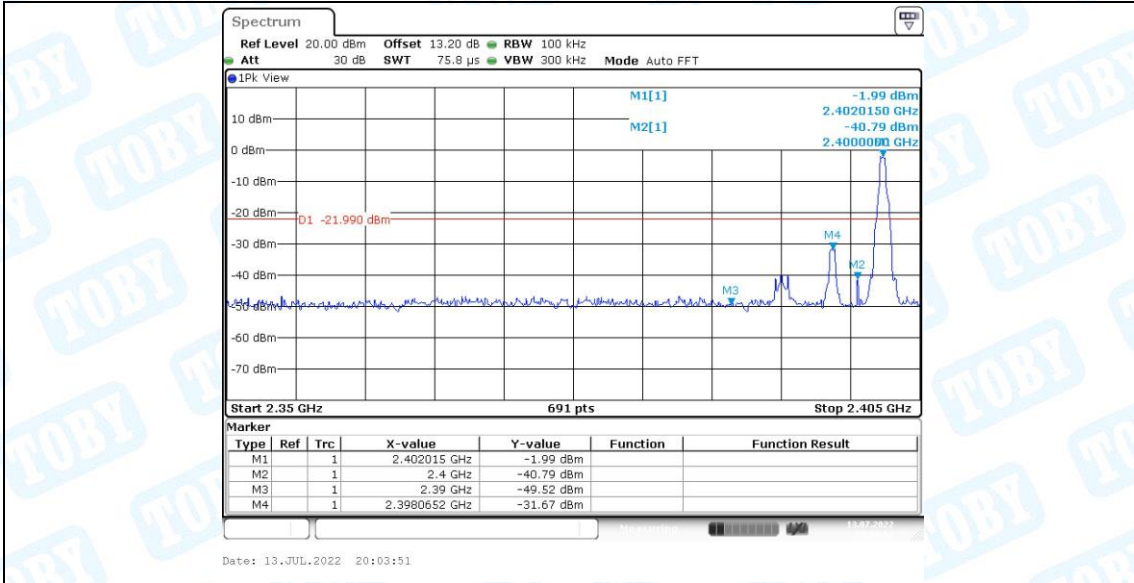
2DH5_Ant1_Hop

7. Band edge measurements

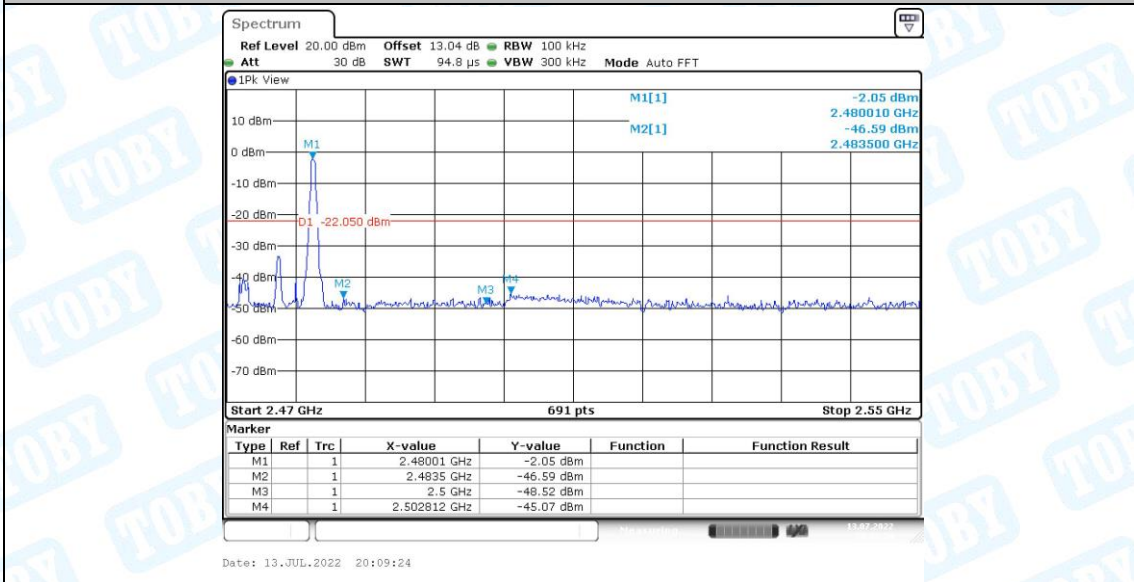
7.1. Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.99	-31.67	≤-21.99	PASS
		High	2480	-2.05	-45.07	≤-22.05	PASS
		Low	Hop_2402	-3.02	-47.05	≤-23.02	PASS
		High	Hop_2480	-2.04	-44.33	≤-22.04	PASS
2DH5	Ant1	Low	2402	-1.94	-30.86	≤-21.94	PASS
		High	2480	-2.01	-44.93	≤-22.01	PASS
		Low	Hop_2402	-2.85	-47.25	≤-22.85	PASS
		High	Hop_2480	-4.06	-45.15	≤-24.06	PASS

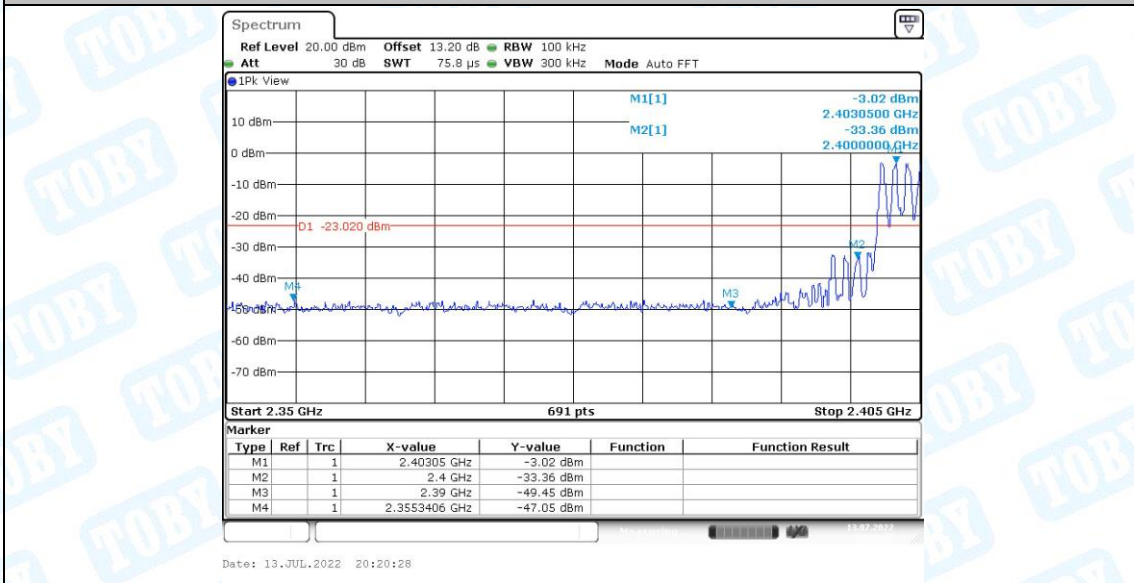
7.2. Test Graphs



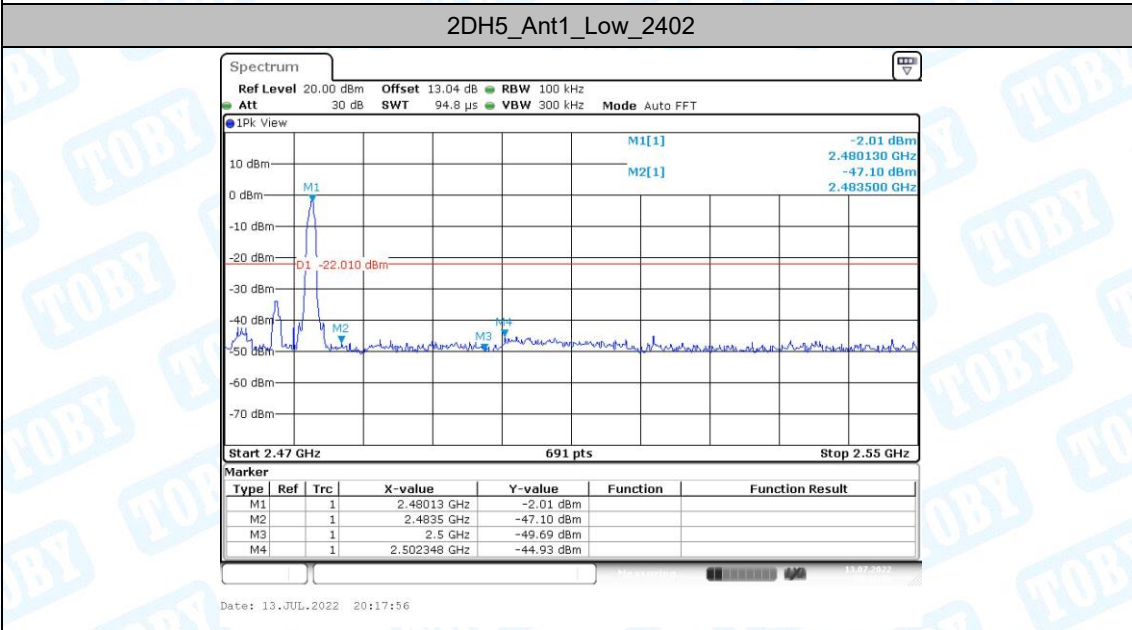
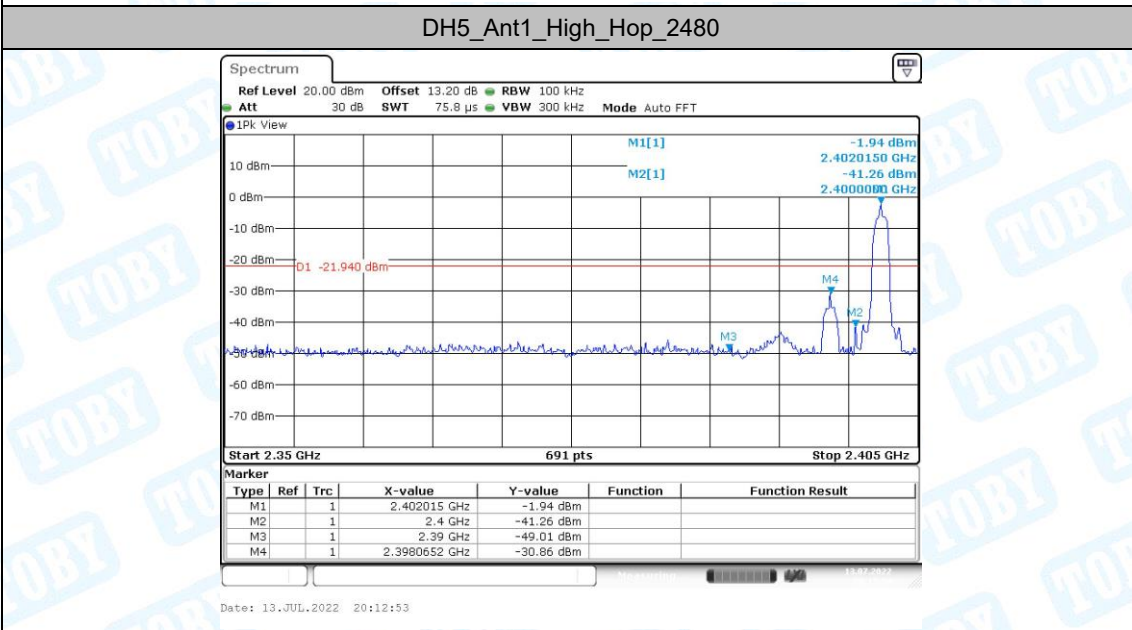
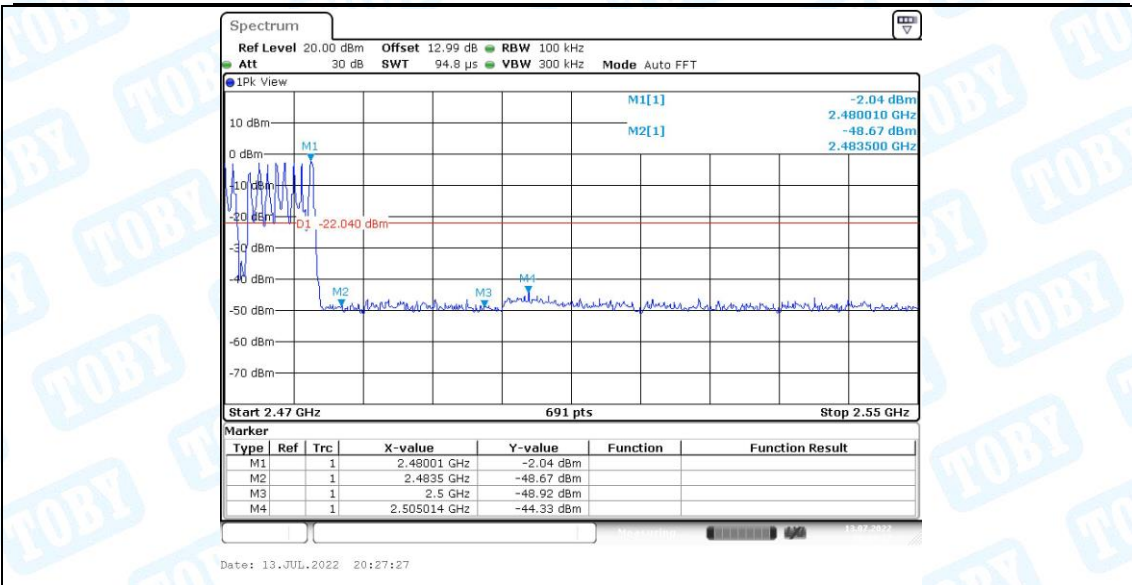
DH5_Ant1_Low_2402



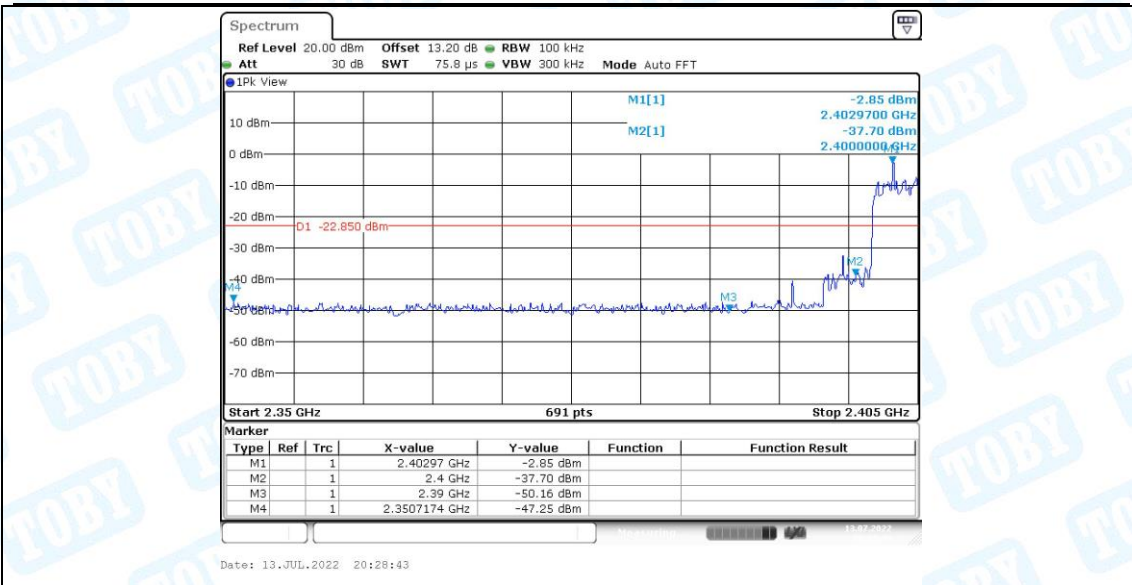
DH5_Ant1_High_2480



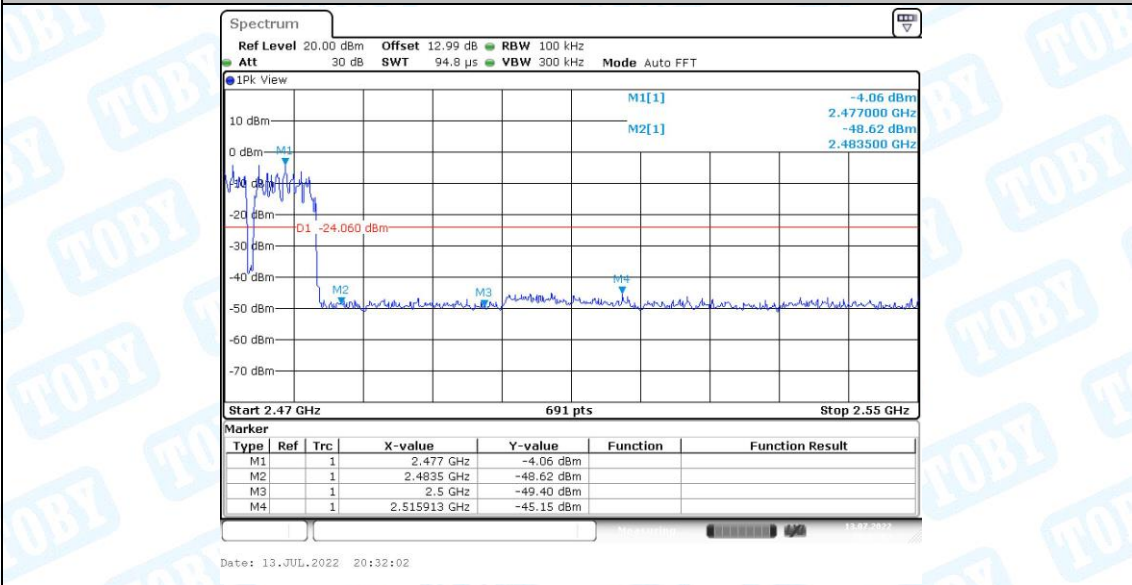
DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



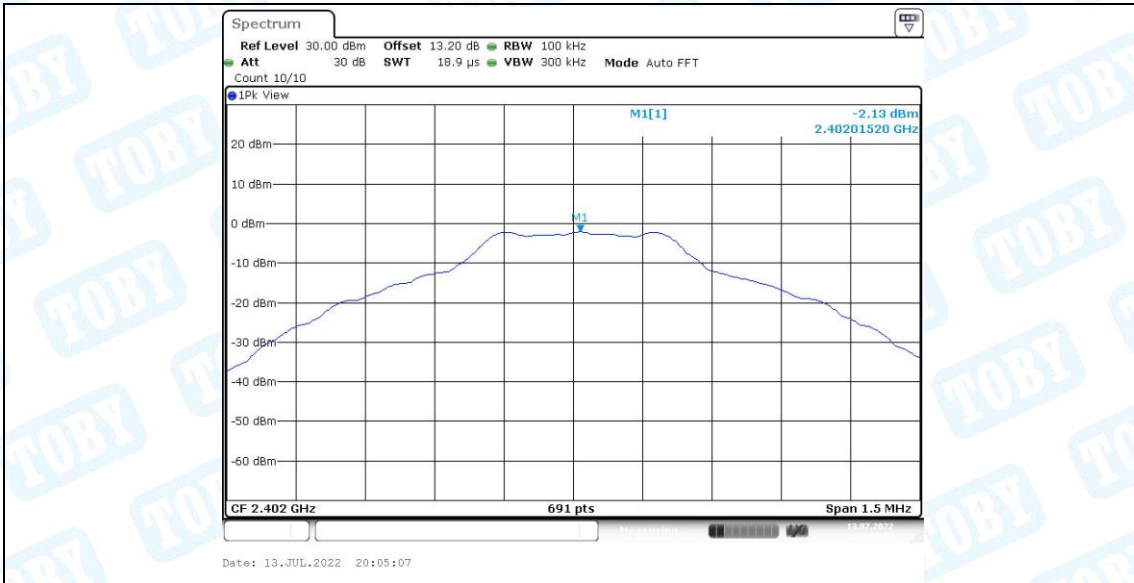
2DH5_Ant1_High_Hop_2480

8. Conducted Spurious Emission

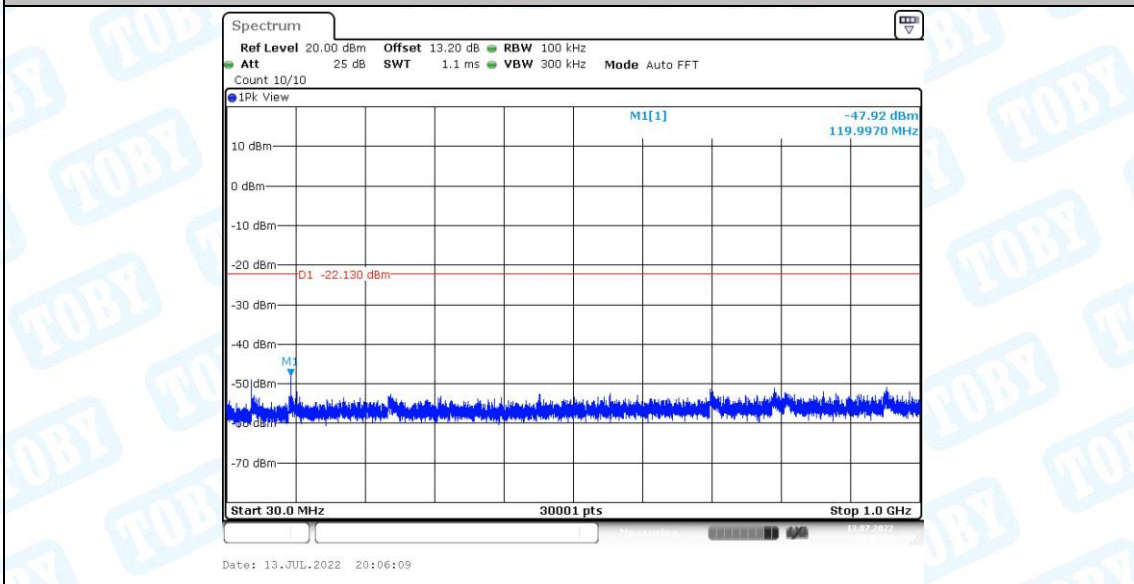
8.1. Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-2.13	-2.13	---	PASS
			30~1000	-2.13	-47.92	≤-22.13	PASS
			1000~26500	-2.13	-38.7	≤-22.13	PASS
		2441	Reference	-2.28	-2.28	---	PASS
			30~1000	-2.28	-51.67	≤-22.28	PASS
			1000~26500	-2.28	-38.23	≤-22.28	PASS
		2480	Reference	-2.13	-2.13	---	PASS
			30~1000	-2.13	-48.93	≤-22.13	PASS
			1000~26500	-2.13	-39.54	≤-22.13	PASS
2DH5	Ant1	2402	Reference	-2.04	-2.04	---	PASS
			30~1000	-2.04	-48.66	≤-22.04	PASS
			1000~26500	-2.04	-41.54	≤-22.04	PASS
		2441	Reference	-2.20	-2.20	---	PASS
			30~1000	-2.20	-50.39	≤-22.2	PASS
			1000~26500	-2.20	-43.53	≤-22.2	PASS
		2480	Reference	-2.07	-2.07	---	PASS
			30~1000	-2.07	-49.19	≤-22.07	PASS
			1000~26500	-2.07	-39.69	≤-22.07	PASS

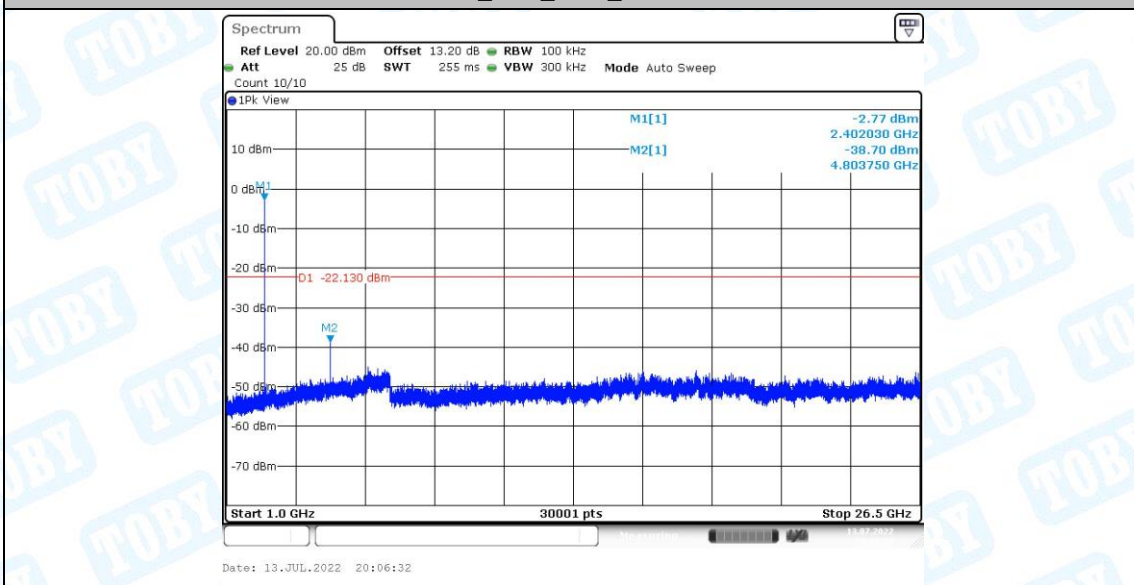
8.2.Test Graphs



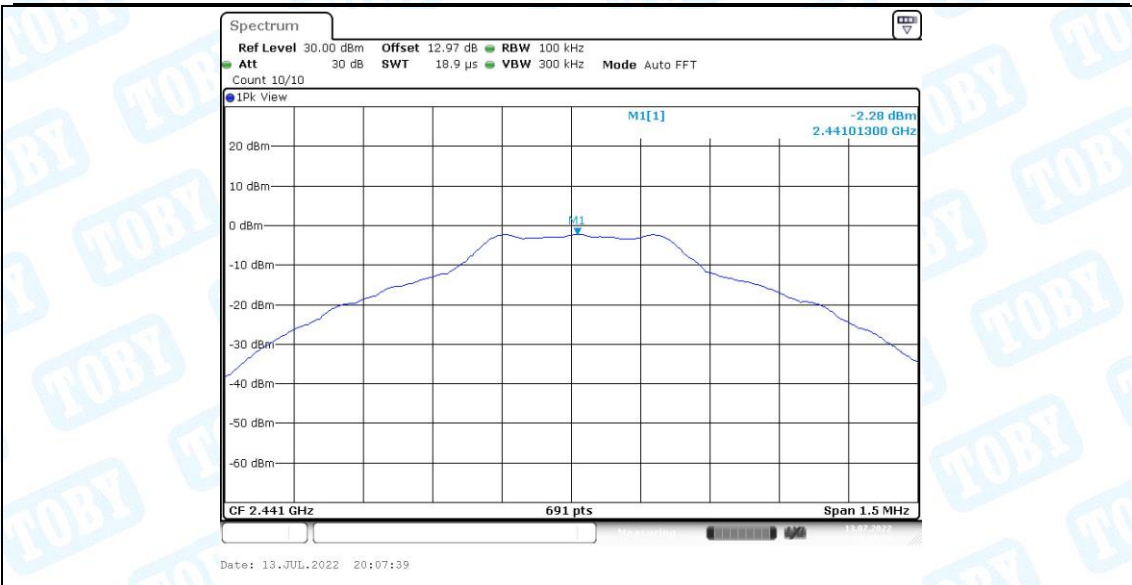
DH5_Ant1_2402_0~Reference



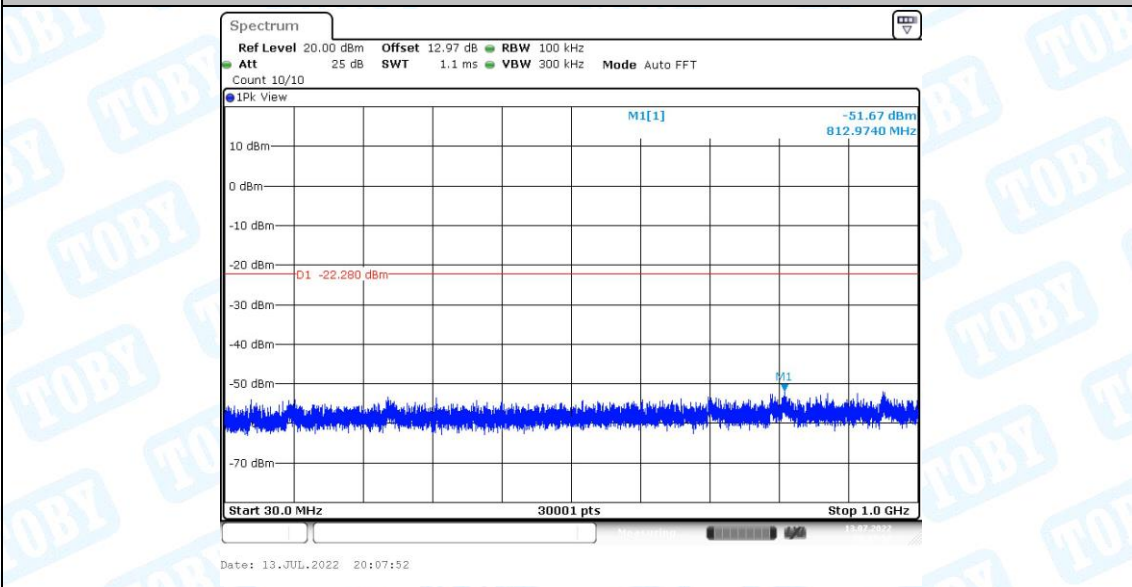
DH5_Ant1_2402_30~1000



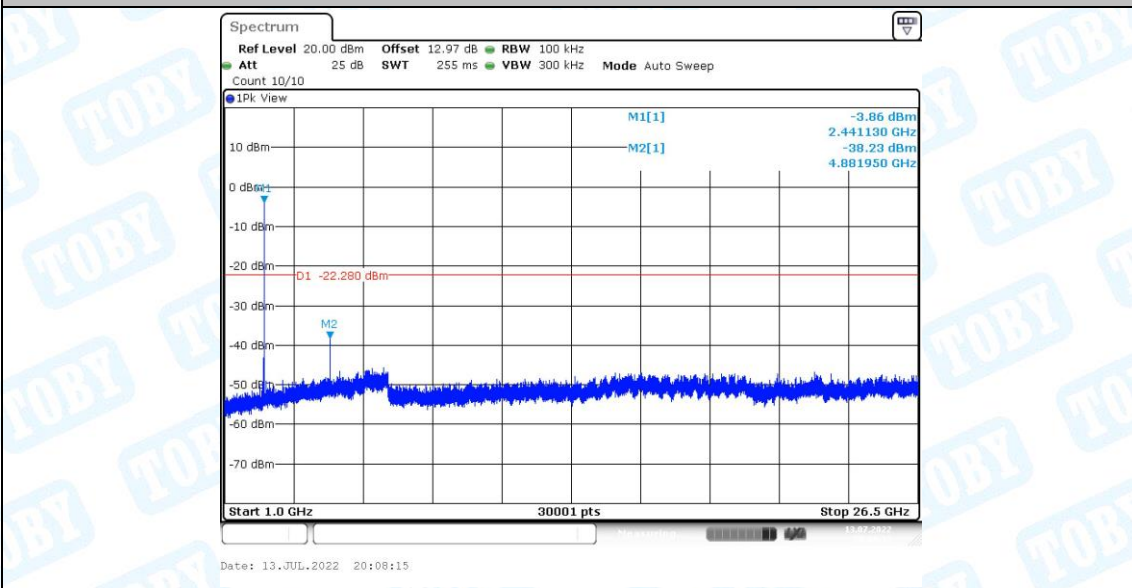
DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



DH5_Ant1_2441_1000~26500