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

General Description of EUT	
Product Name:	Automatic Key Cutting Machine
Test Model:	XC-MINI PLUS II
Sample ID:	202202-0114-11-2#
Environmental Conditions	
Temperature:	24℃
Relative Humidity:	50%
Test Voltage:	AC 90-264V, 3A, 50/60Hz
Test Engineer:	Huangjianping
Note: For a more detailed features description, please refer to the report TBR-C-202202-0114-14.	

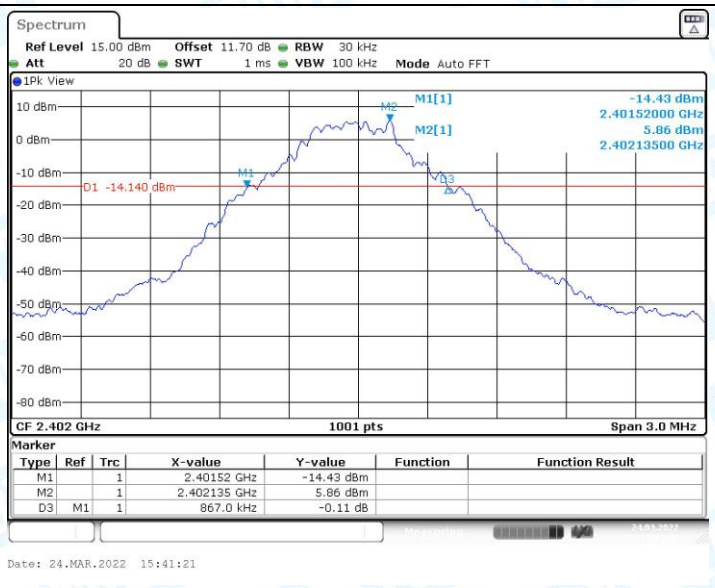
Contents

1. 20dB emission bandwidth

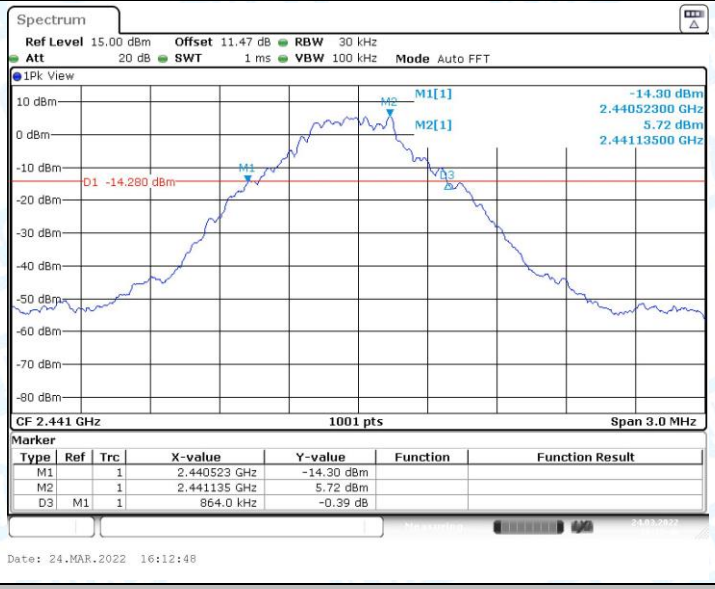
1.1.Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	2/3 *20dB BW (MHz)	Verdict
DH5	Ant1	2402	0.87	0.58	
		2441	0.86	0.56	
		2480	0.87	0.58	
2DH5	Ant1	2402	1.28	0.85	---
		2441	1.27	0.84	---
		2480	1.27	0.84	---
3DH5	Ant1	2402	1.25	0.83	---
		2441	1.25	0.83	---
		2480	1.25	0.83	---

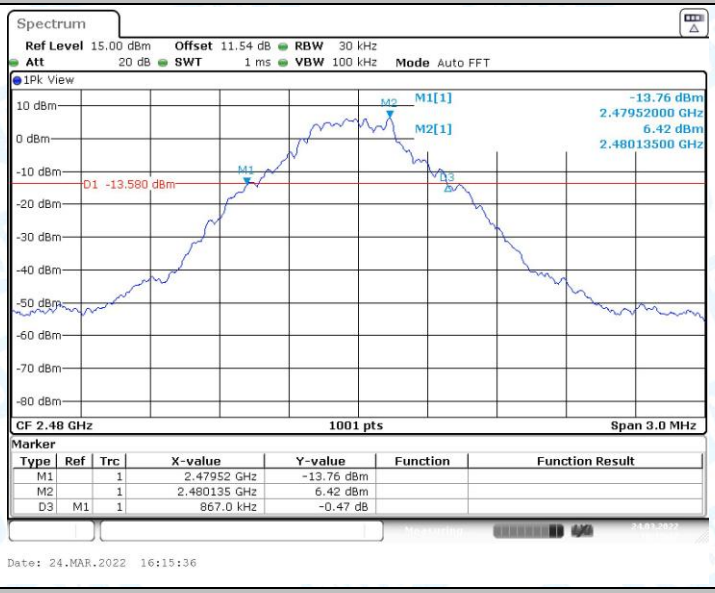
1.2.Test Graphs



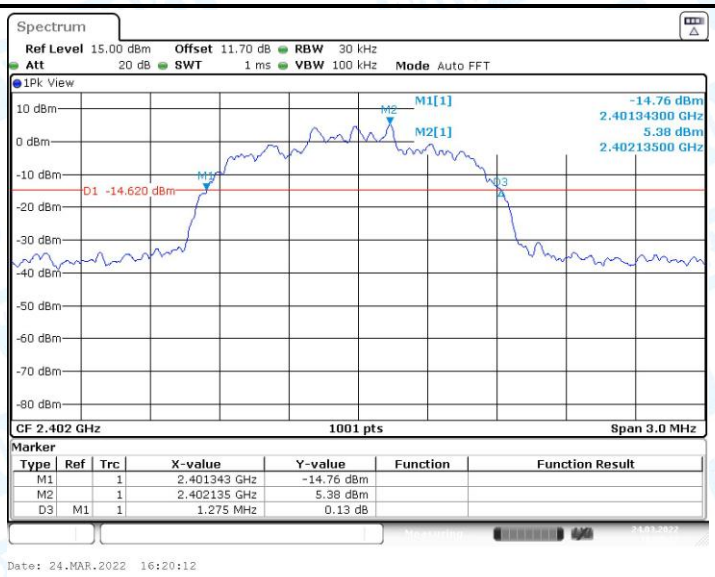
DH5_Ant1_2402



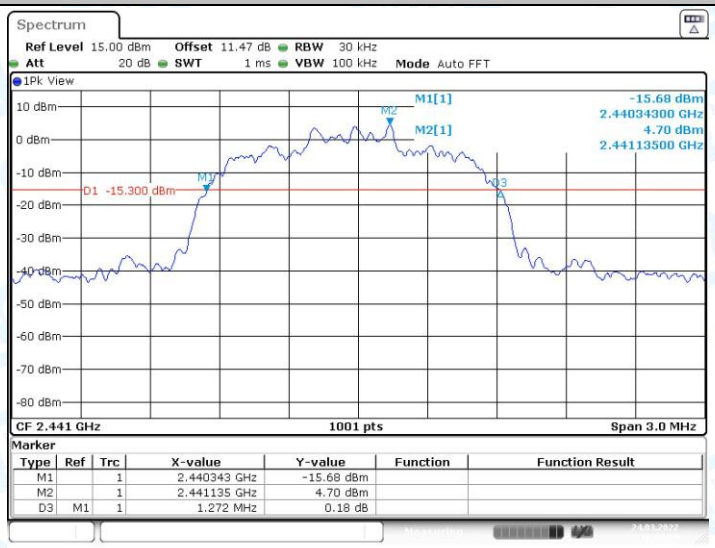
DH5_Ant1_2441



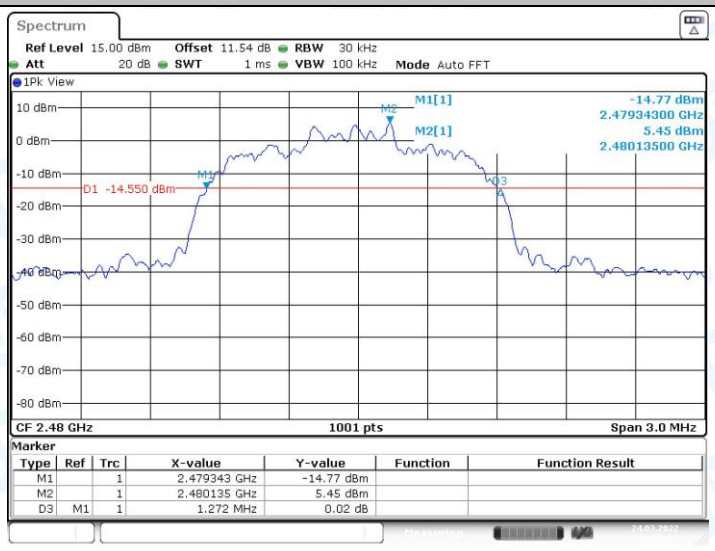
DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



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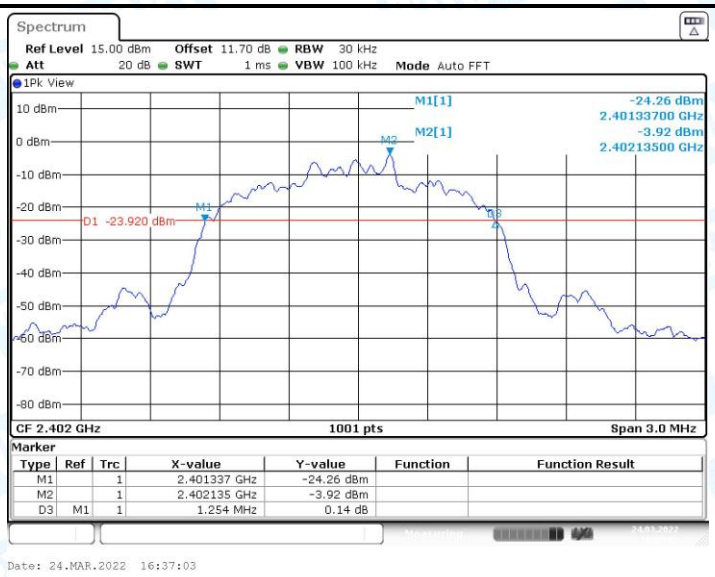
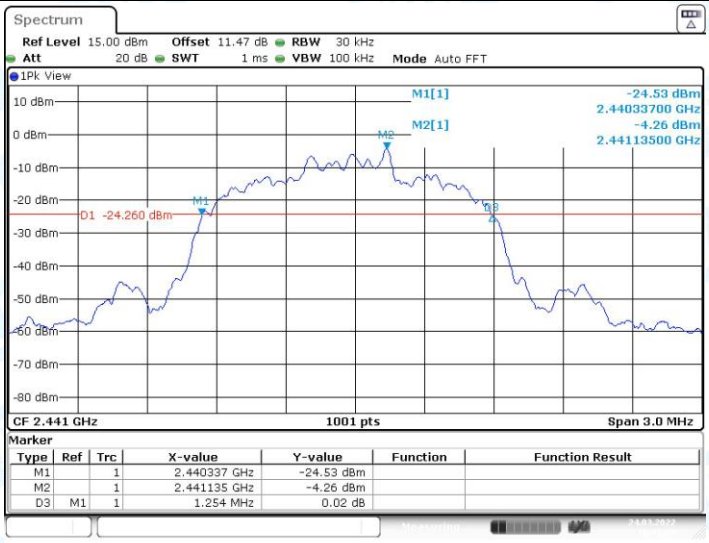
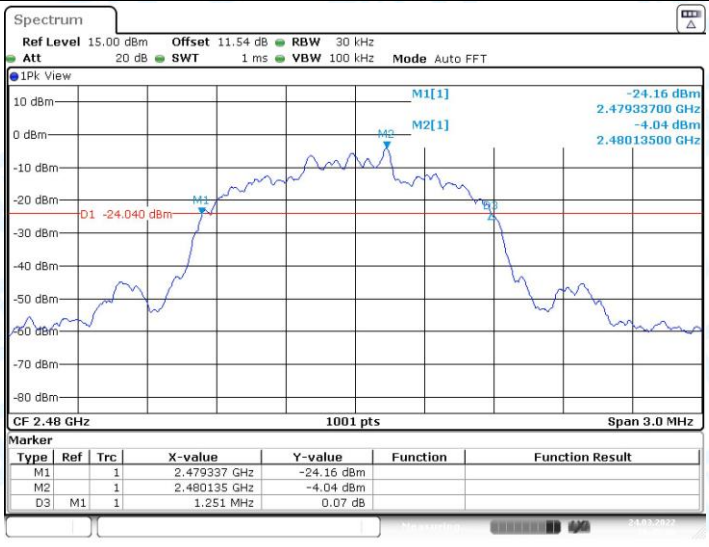


3DH5_Ant1_2402



3DH5_Ant1_2441



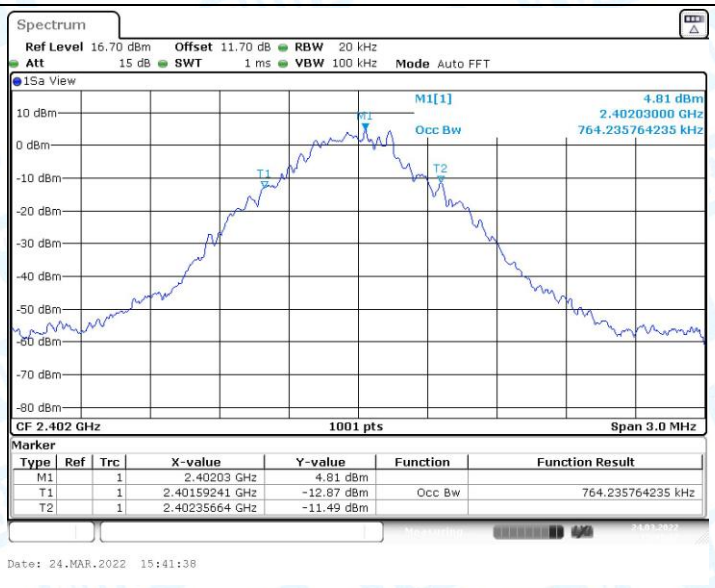
3DH5_Ant1_2480

2. Occupied channel bandwidth

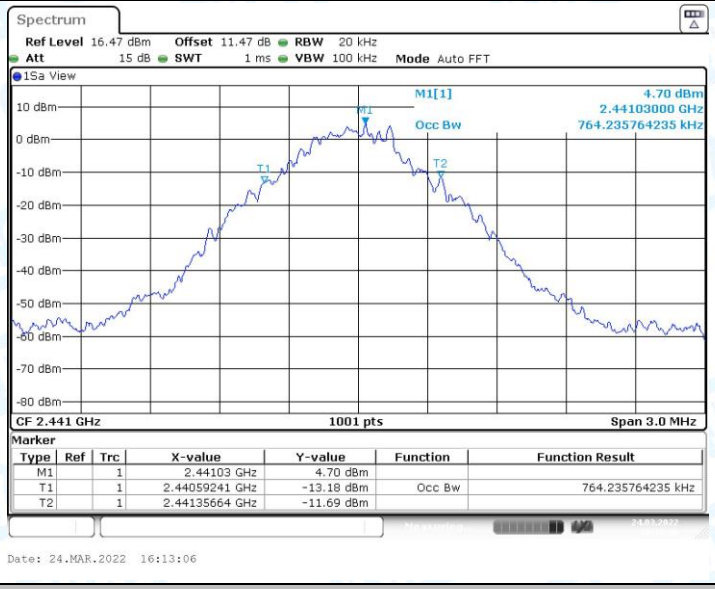
2.1.Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.764	2401.592	2402.357	---	
		2441	0.764	2440.592	2441.357	---	
		2480	0.761	2479.592	2480.354	---	
2DH5	Ant1	2402	1.16	2401.389	2402.548	---	---
		2441	1.154	2440.392	2441.545	---	---
		2480	1.154	2479.392	2480.545	---	---
3DH5	Ant1	2402	1.145	2401.401	2402.545	---	---
		2441	1.145	2440.401	2441.545	---	---
		2480	1.148	2479.398	2480.545	---	---

2.2.Test Graphs



DH5_Ant1_2402



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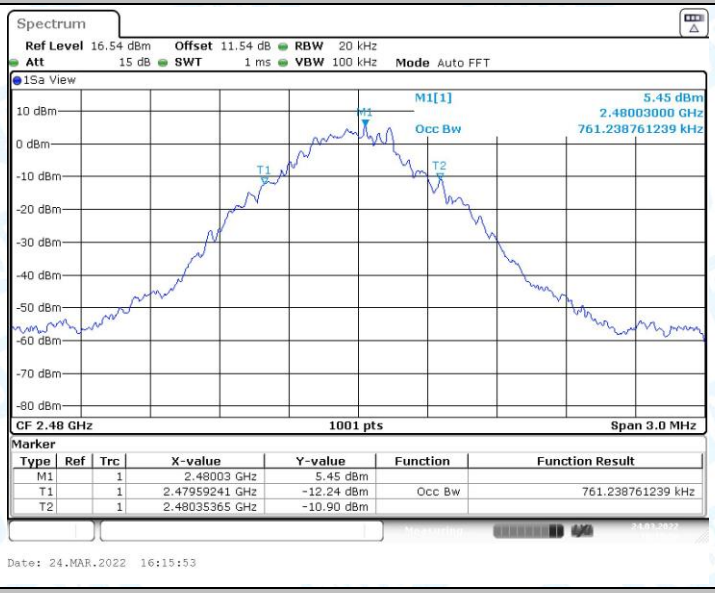
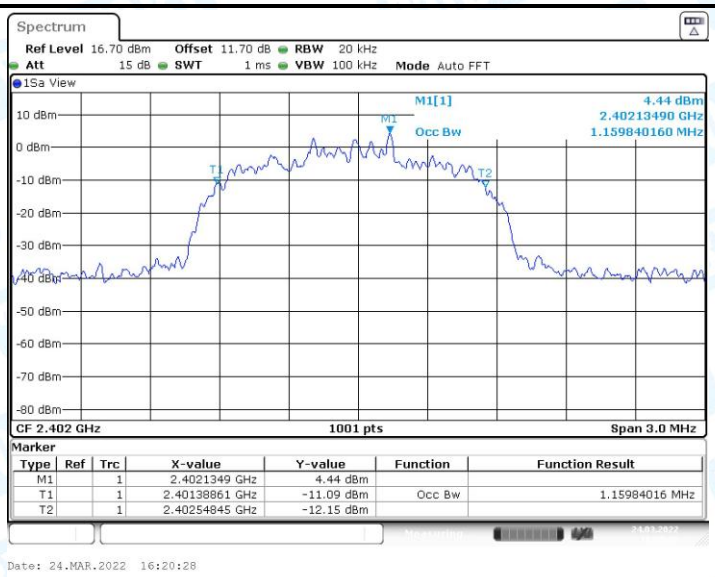
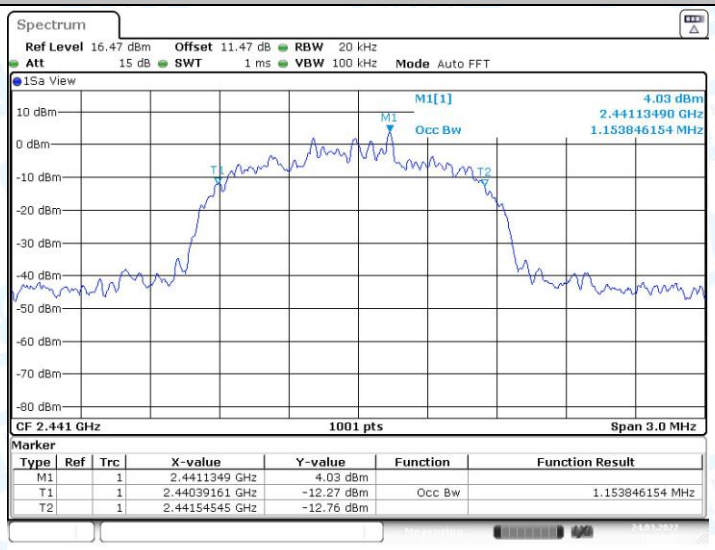


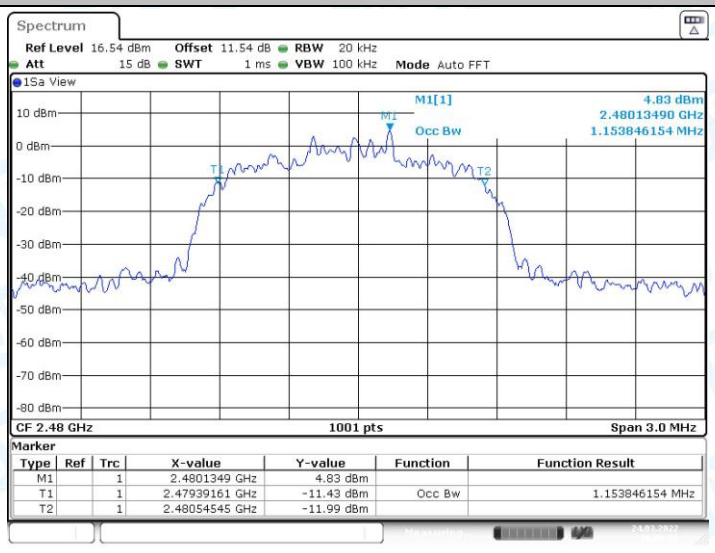
DH5_Ant1_2480



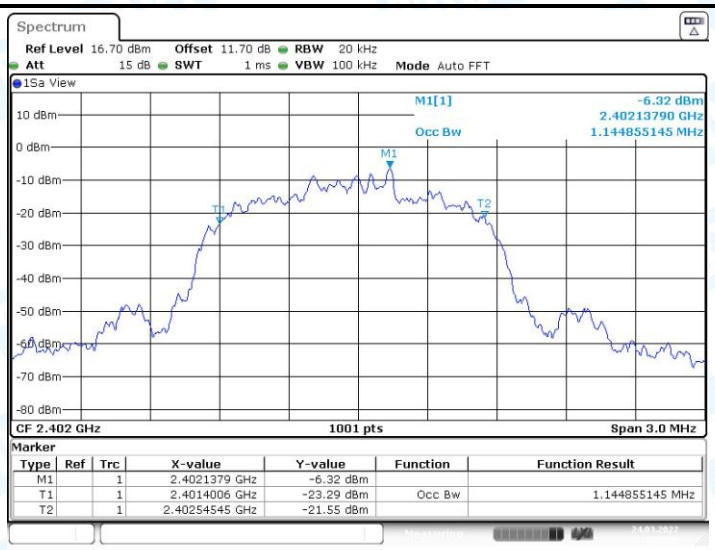
2DH5_Ant1_2402



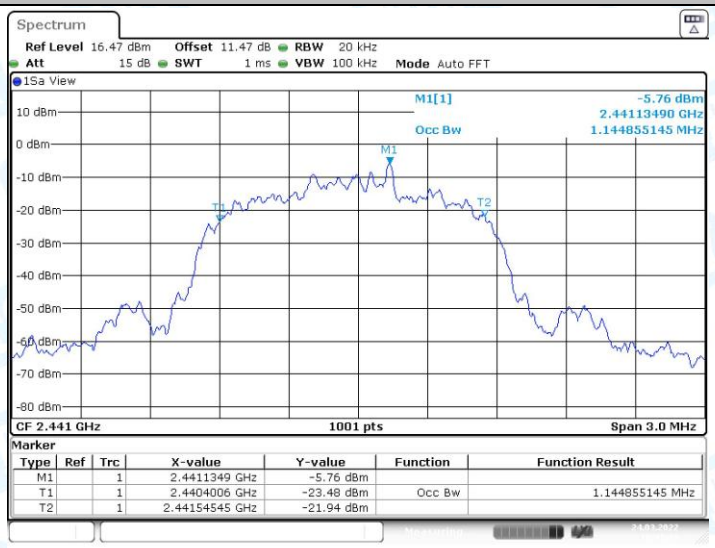
2DH5_Ant1_2441



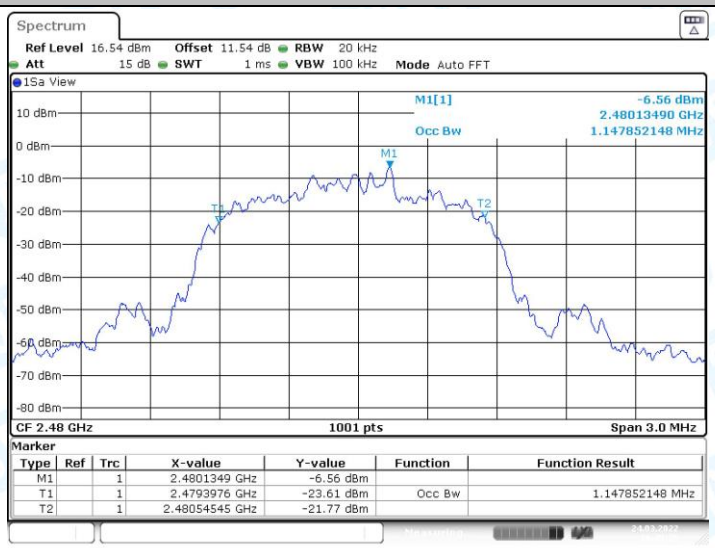
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



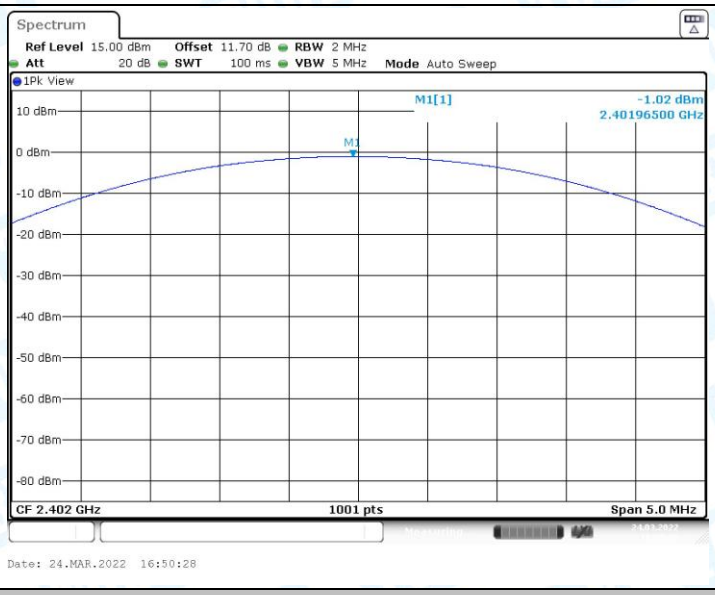
3DH5_Ant1_2480

3. Maximum conducted output power

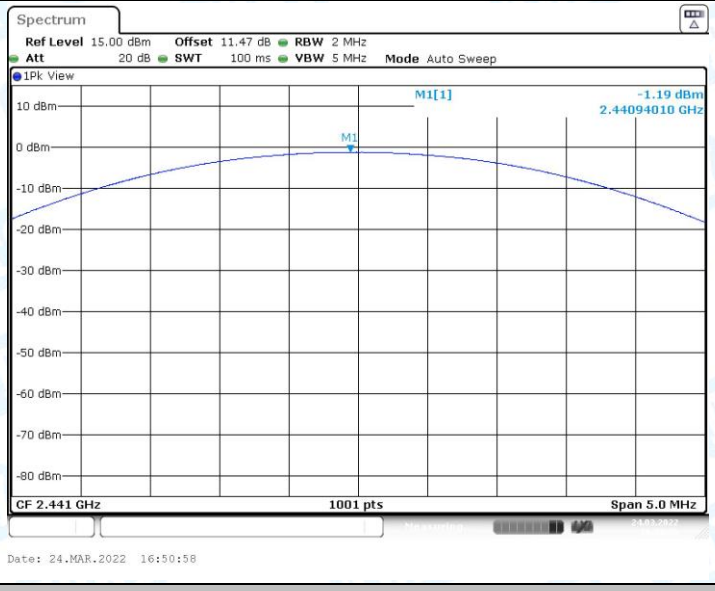
3.1.Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-1.02	≤20.97	PASS
		2441	-1.19	≤20.97	PASS
		2480	-0.93	≤20.97	PASS
2DH5	Ant1	2402	-1.61	≤20.97	PASS
		2441	-1.77	≤20.97	PASS
		2480	-1.51	≤20.97	PASS
3DH5	Ant1	2402	-1.45	≤20.97	PASS
		2441	-1.76	≤20.97	PASS
		2480	-1.55	≤20.97	PASS

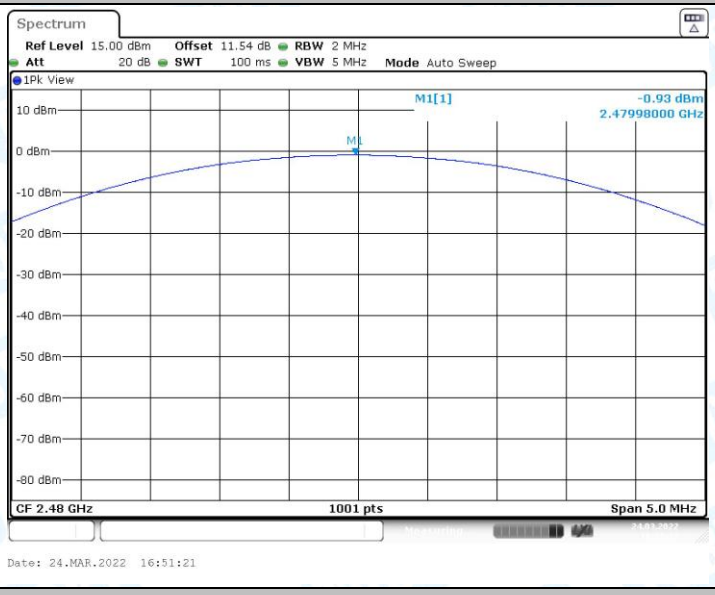
3.2.Test Graphs



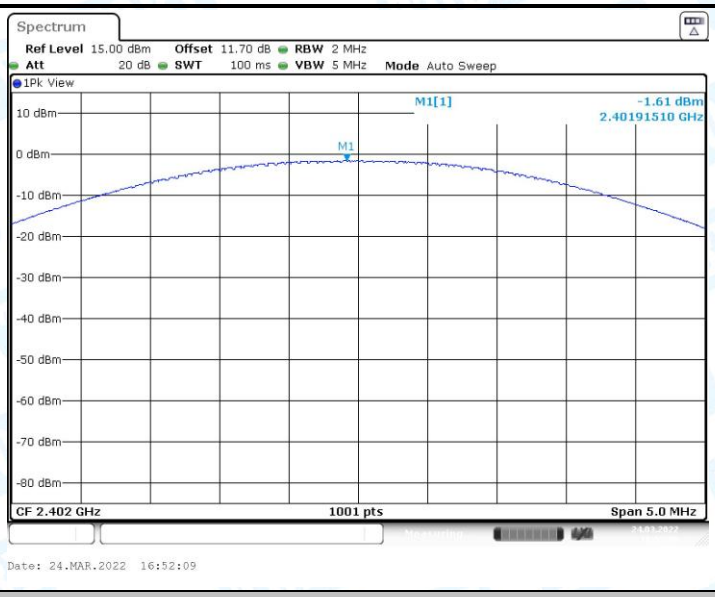
DH5_Ant1_2402



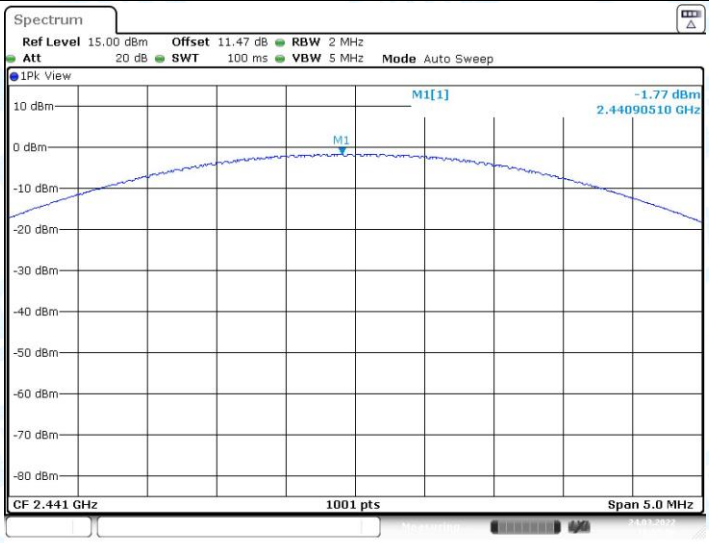
DH5_Ant1_2441



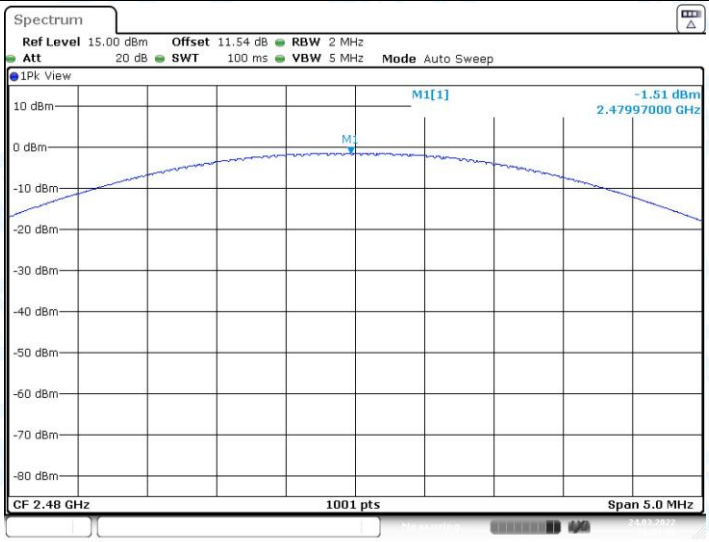
DH5_Ant1_2480



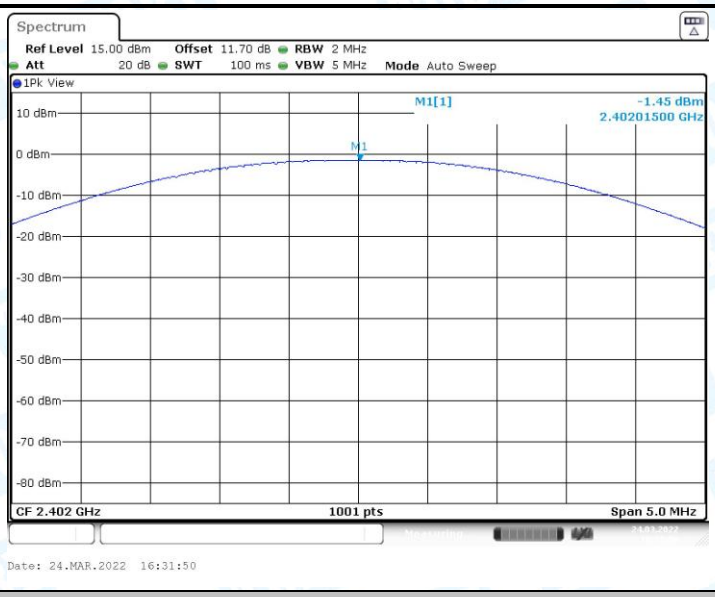
2DH5_Ant1_2402



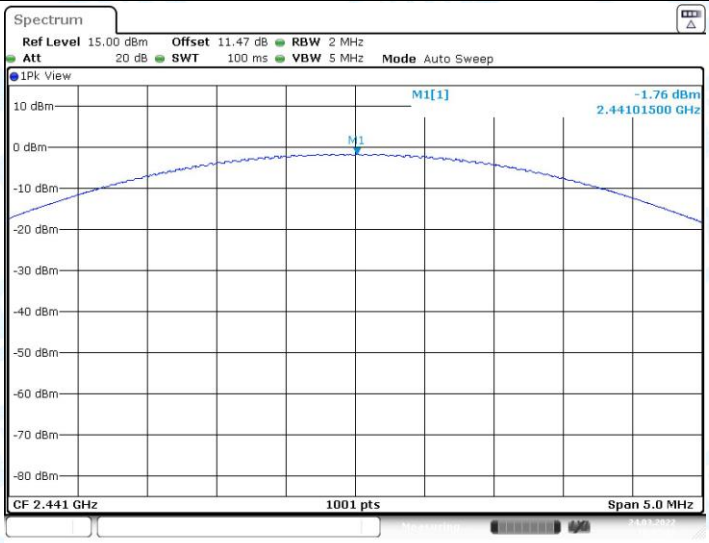
2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



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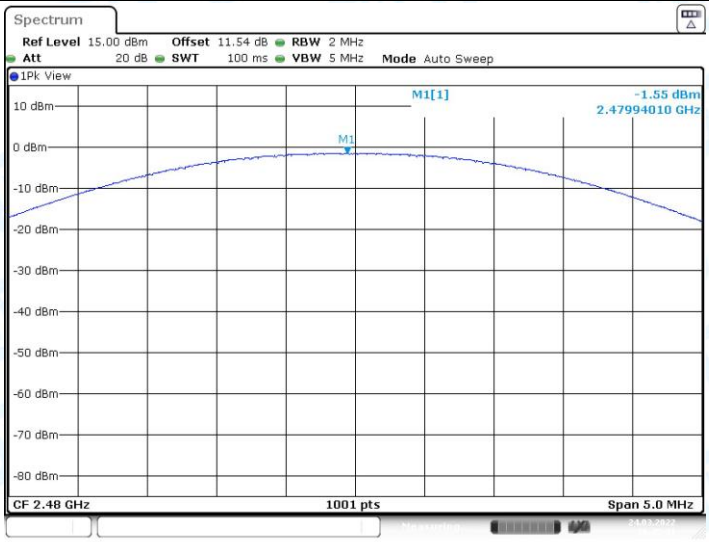


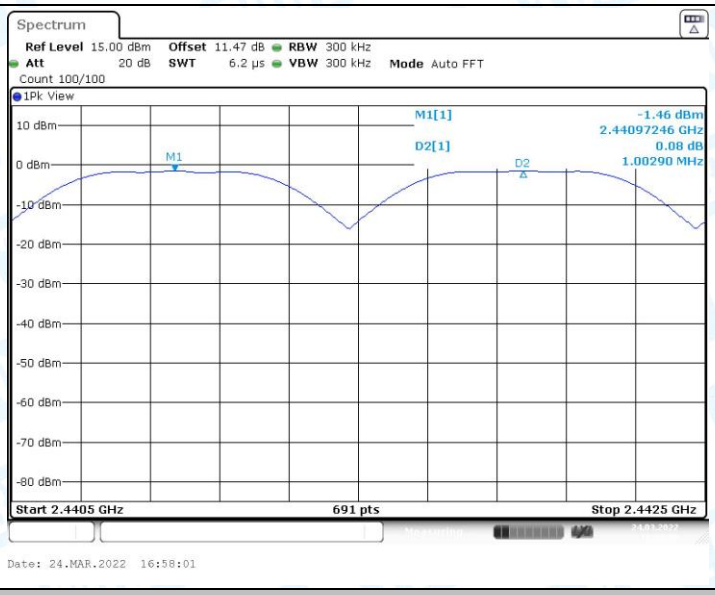
3DH5_Ant1_2480

4. Carrier frequency separation

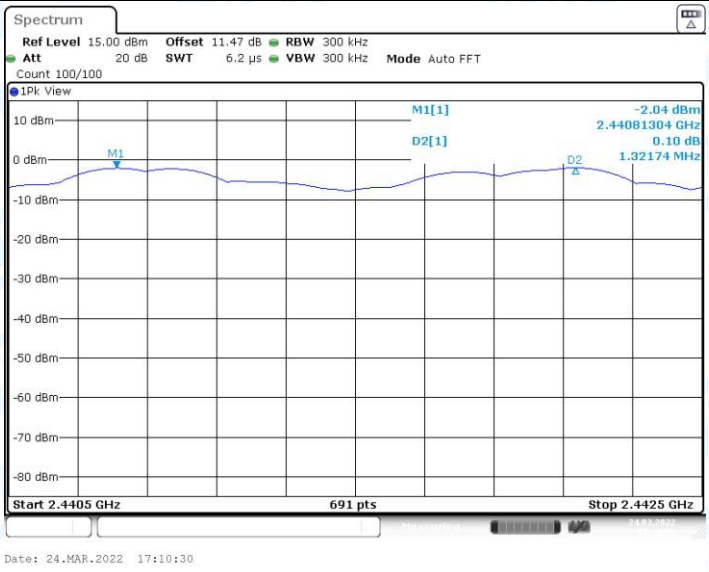
4.1.Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.003	≥0.560	PASS
2DH5	Ant1	Hop	1.322	≥0.840	PASS
3DH5	Ant1	Hop	1.388	≥0.830	PASS

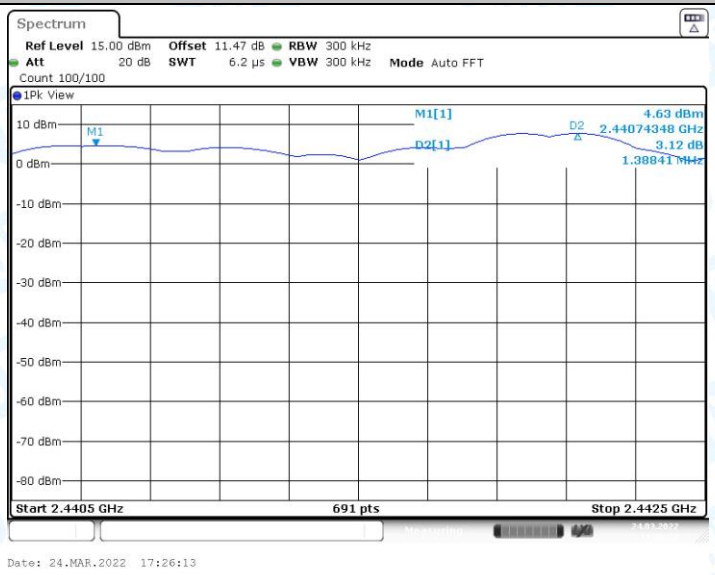
4.2.Test Graphs



DH5_Ant1_Hop



2DH5_Ant1_Hop



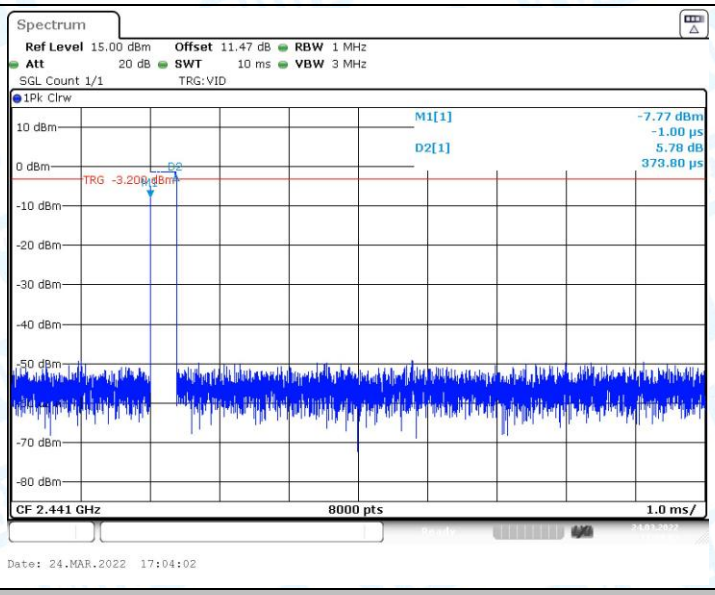
3DH5_Ant1_Hop

5. Time of occupancy

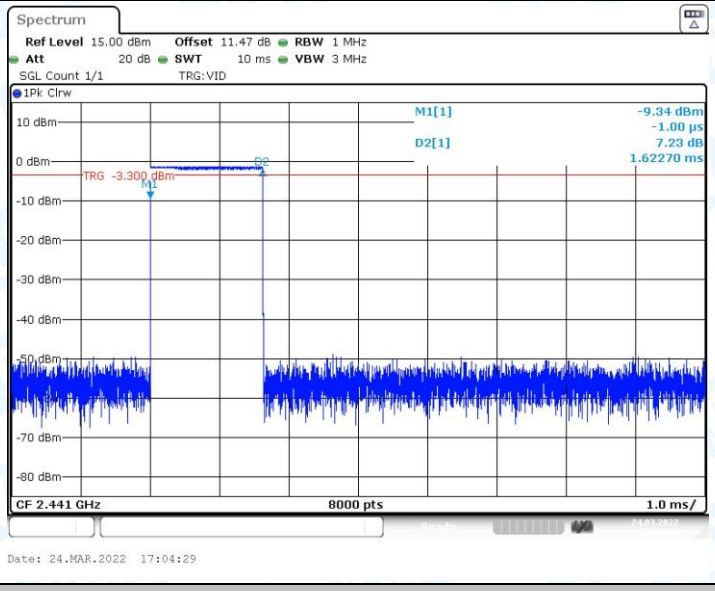
5.1.Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	320	0.12	≤0.4	PASS
DH3	Ant1	Hop	1.62	160	0.26	≤0.4	PASS
DH5	Ant1	Hop	2.86	106.67	0.305	≤0.4	PASS
2DH1	Ant1	Hop	0.38	320	0.122	≤0.4	PASS
2DH3	Ant1	Hop	1.63	160	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.87	106.67	0.306	≤0.4	PASS
3DH1	Ant1	Hop	0.38	320	0.122	≤0.4	PASS
3DH3	Ant1	Hop	1.62	160	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.87	106.67	0.306	≤0.4	PASS

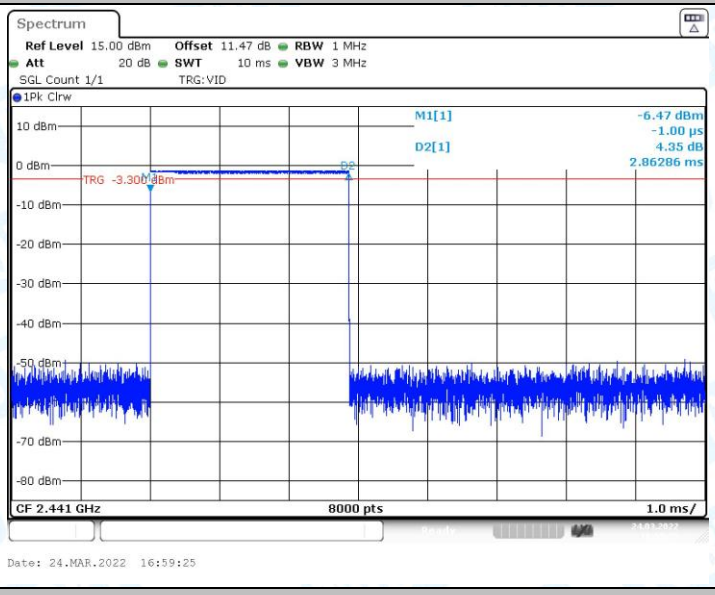
5.2.Test Graphs



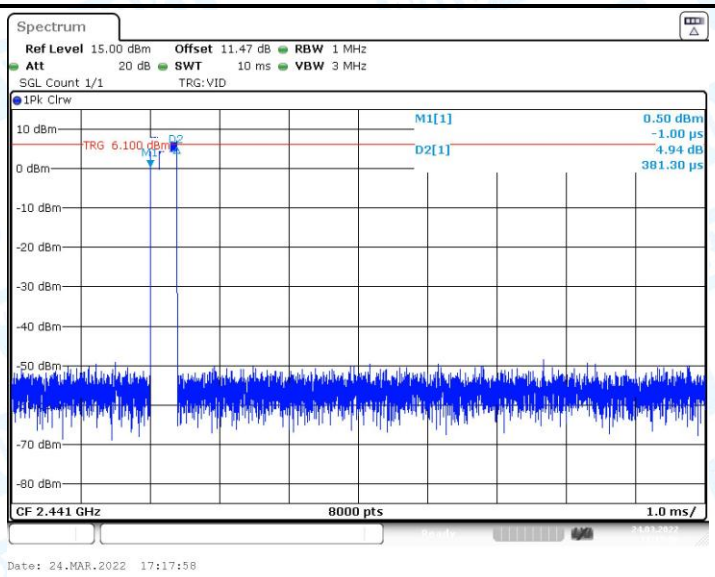
DH1_Ant1_Hop



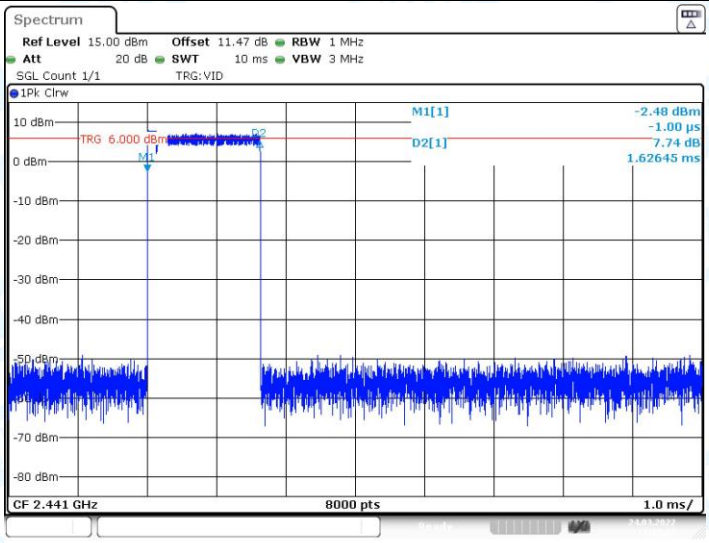
DH3_Ant1_Hop



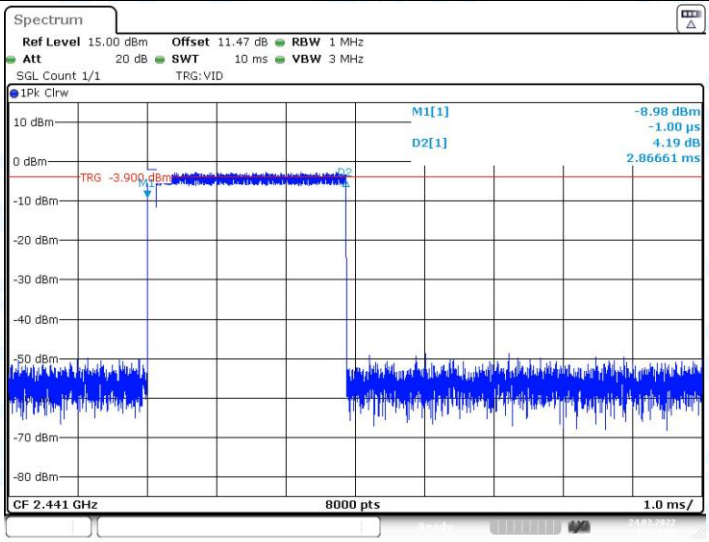
DH5_Ant1_Hop



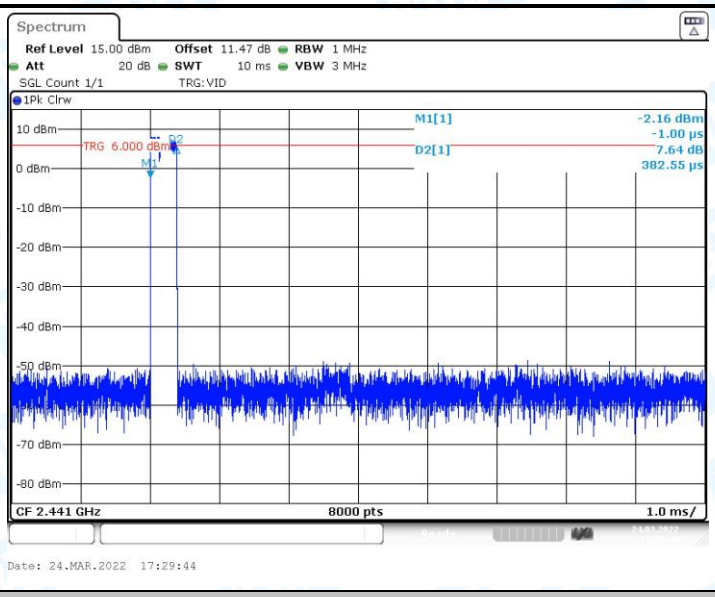
2DH1_Ant1_Hop



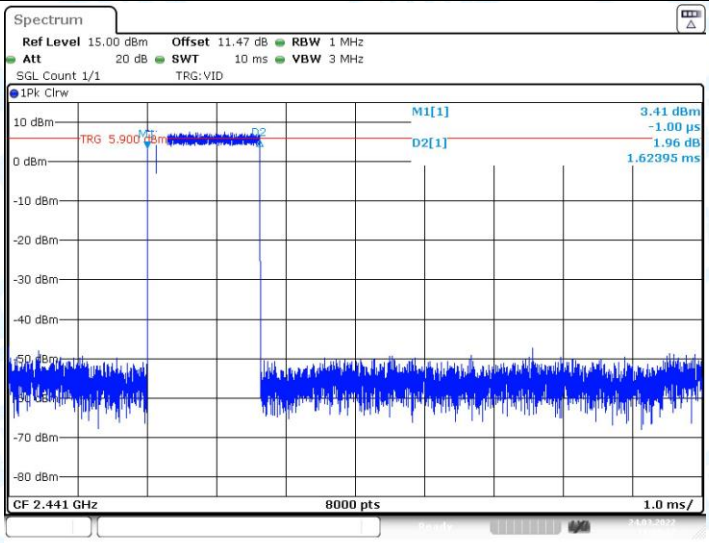
2DH3_Ant1_Hop



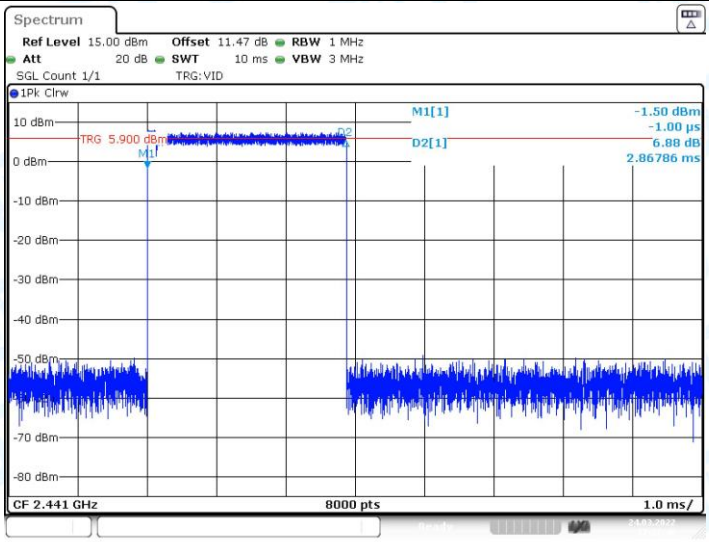
2DH5_Ant1_Hop



3DH1_Ant1_Hop



3DH3_Ant1_Hop



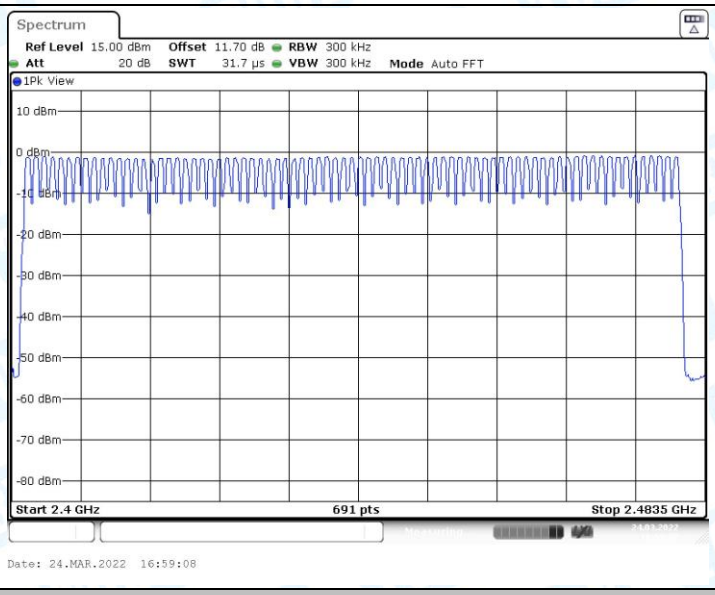
3DH5_Ant1_Hop

6. Number of hopping channels

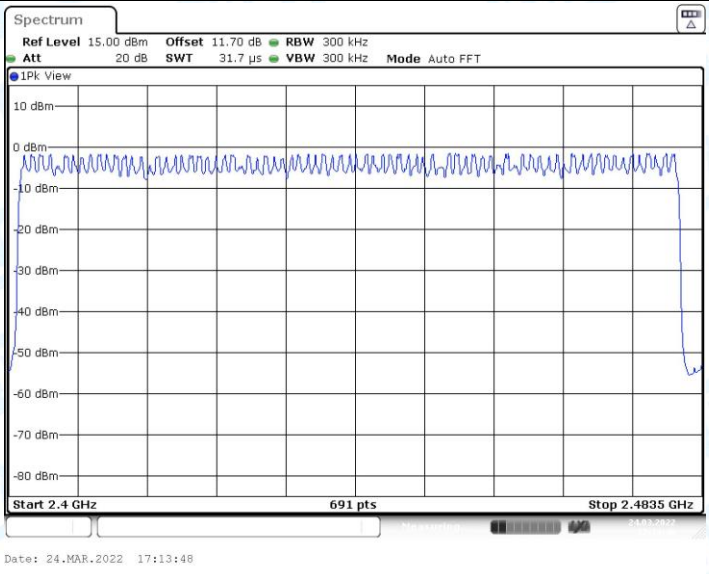
6.1.Test Result

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

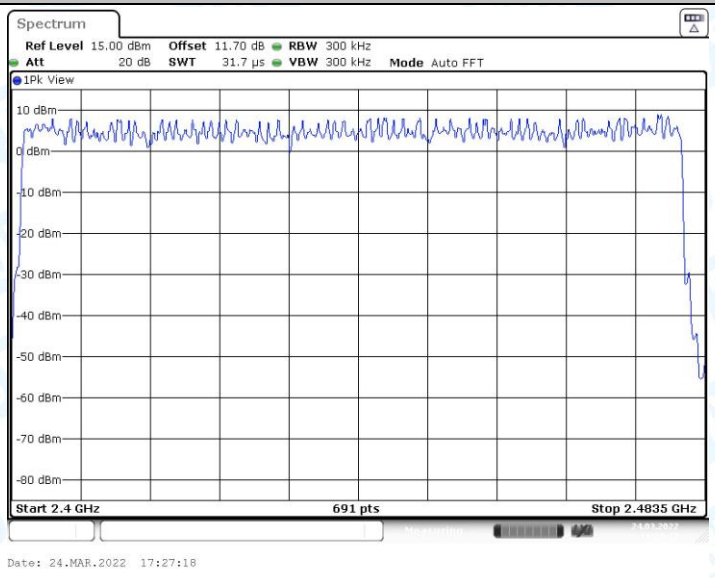
6.2.Test Graphs



DH5_Ant1_Hop



2DH5_Ant1_Hop



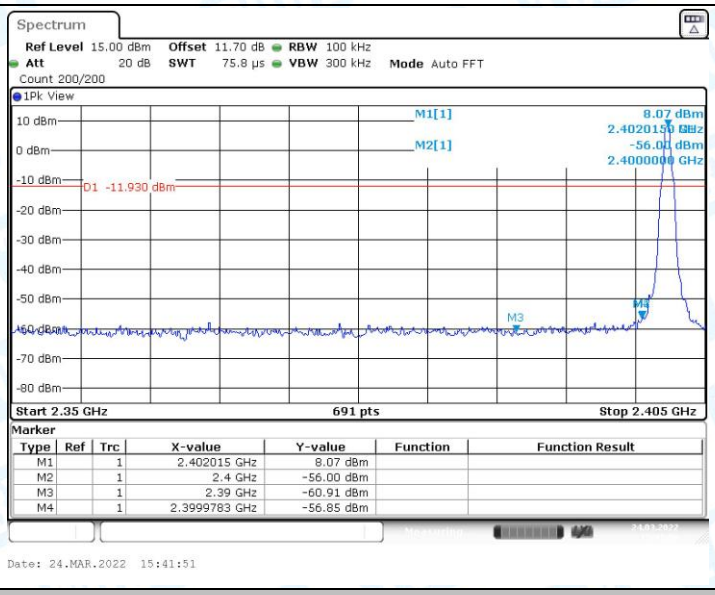
3DH5_Ant1_Hop

7.Band edge measurements

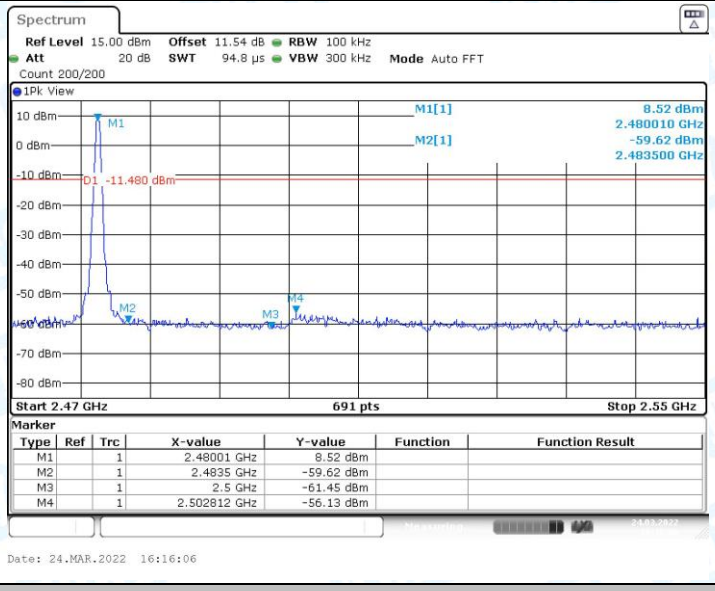
7.1.Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	8.07	-56.85	≤-11.93	PASS
		High	2480	8.52	-56.13	≤-11.48	PASS
		Low	Hop_2402	-1.69	-57.06	≤-21.69	PASS
		High	Hop_2480	8.67	-55.53	≤-11.33	PASS
2DH5	Ant1	Low	2402	7.89	-45.82	≤-12.11	PASS
		High	2480	8.52	-56.29	≤-11.48	PASS
		Low	Hop_2402	-1.85	-57.24	≤-21.85	PASS
		High	Hop_2480	-2.18	-56.01	≤-22.18	PASS
3DH5	Ant1	Low	2402	-1.66	-58.32	≤-21.66	PASS
		High	2480	-2.75	-56.45	≤-22.75	PASS
		Low	Hop_2402	6.26	-57.7	≤-13.74	PASS
		High	Hop_2480	8.54	-56.23	≤-11.46	PASS

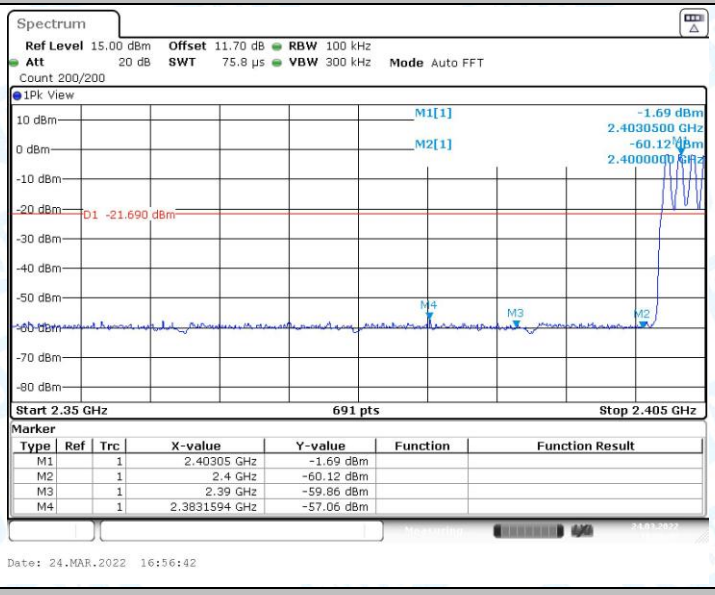
7.2.Test Graphs



DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402