

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

General Description of EUT	
Product Name:	OUTDOOR TV
Test Model:	OT65A1KAGC
Sample ID:	C-202201-0046-1# & C-202201-0046-2#
Environmental Conditions	
Temperature:	23.8°C
Relative Humidity:	48%
Test Voltage:	AC 120V/60Hz
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202201-0046-2	

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1. 20dB Emission Bandwidth

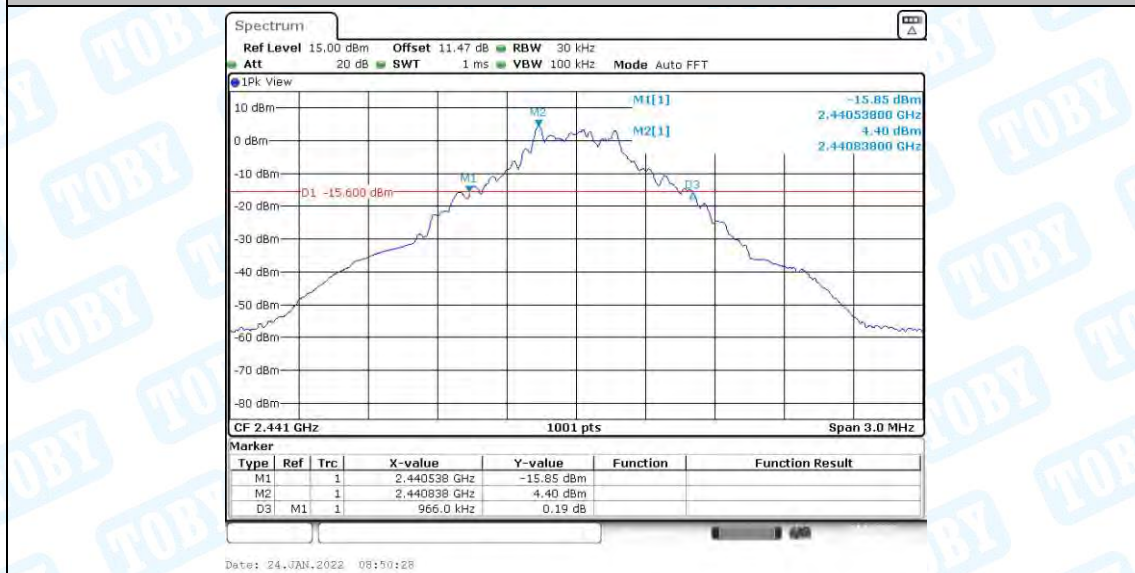
1.1. Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.97	---	---
		2441	0.97	---	---
		2480	0.97	---	---
2DH5	Ant1	2402	1.29	---	---
		2441	1.29	---	---
		2480	1.29	---	---
3DH5	Ant1	2402	1.30	---	---
		2441	1.30	---	---
		2480	1.30	---	---

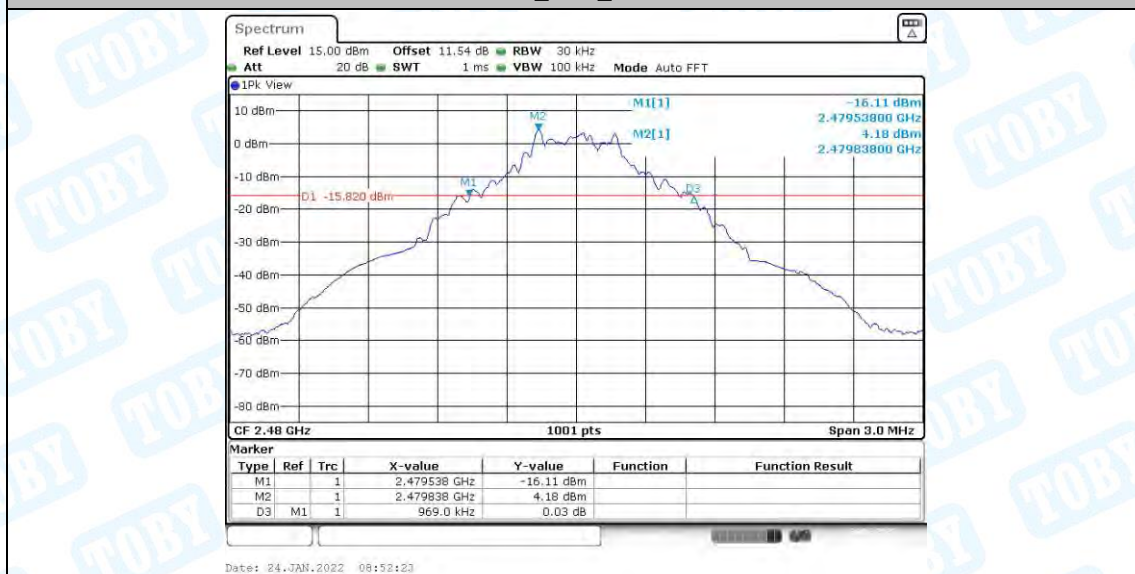
1.2. Test Graphs



DH5_Ant1_2402



DH5_Ant1_2441



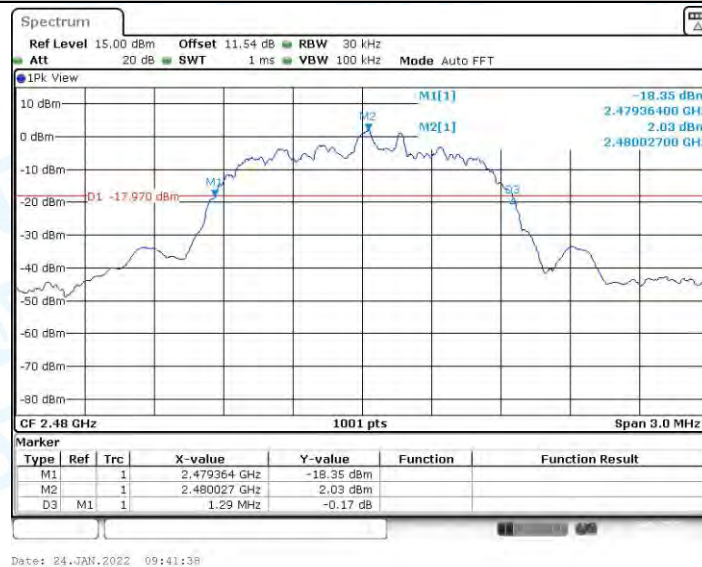
DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



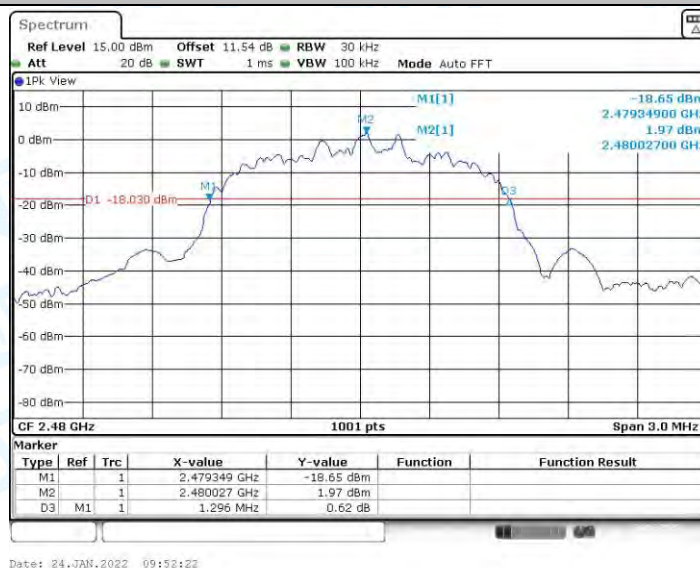
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



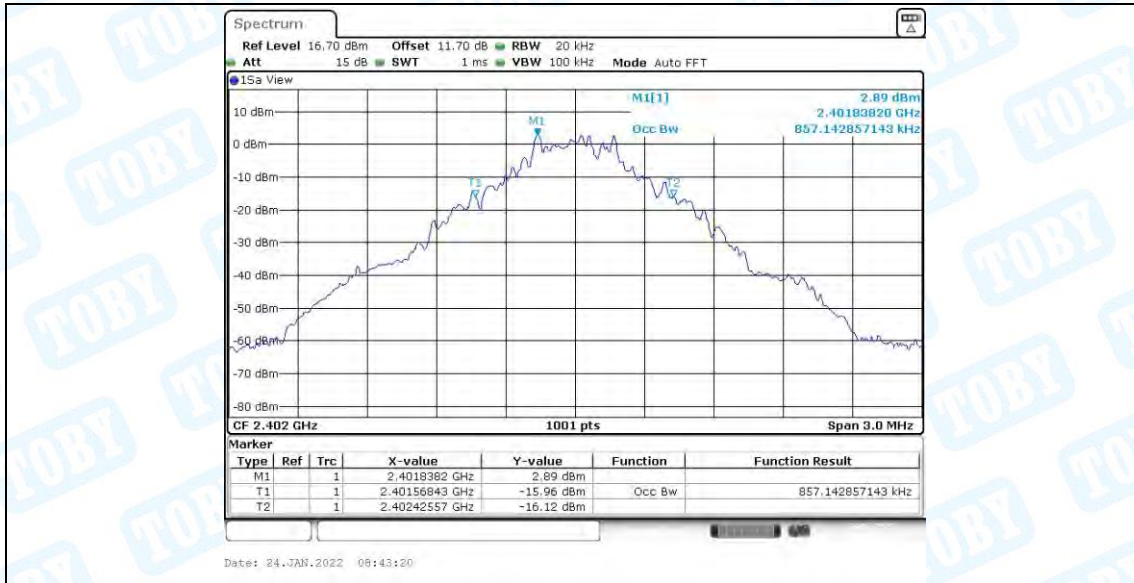
3DH5_Ant1_2480

2. Occupied Channel Bandwidth

2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.857	2401.568	2402.426	---	---
		2441	0.86	2440.565	2441.426	---	---
		2480	0.863	2479.565	2480.429	---	---
2DH5	Ant1	2402	1.178	2401.410	2402.587	---	---
		2441	1.181	2440.407	2441.587	---	---
		2480	1.181	2479.407	2480.587	---	---
3DH5	Ant1	2402	1.175	2401.410	2402.584	---	---
		2441	1.178	2440.407	2441.584	---	---
		2480	1.178	2479.407	2480.584	---	---

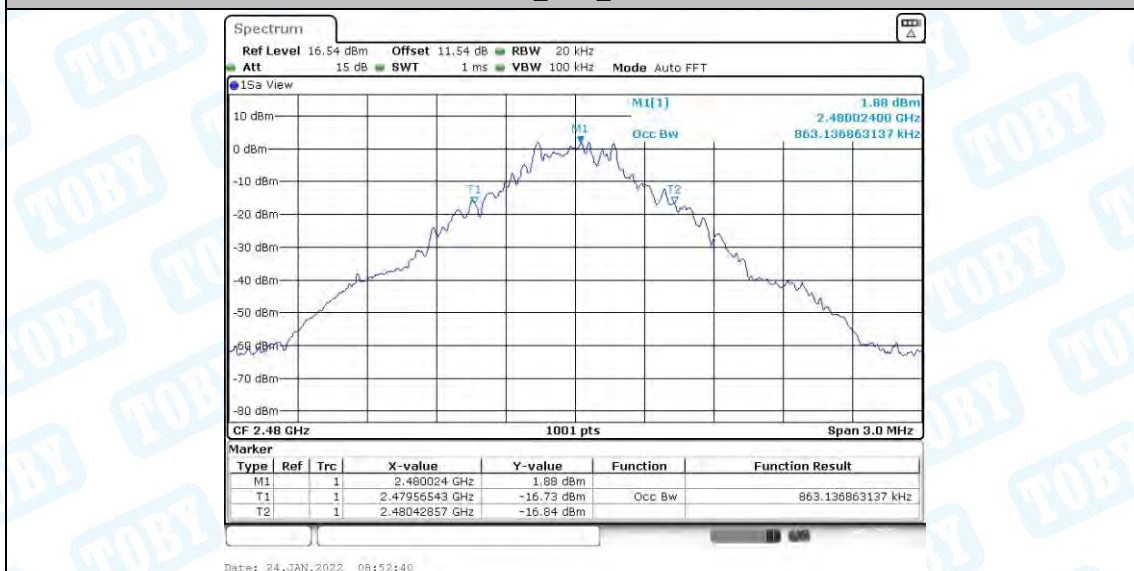
2.2. Test Graphs



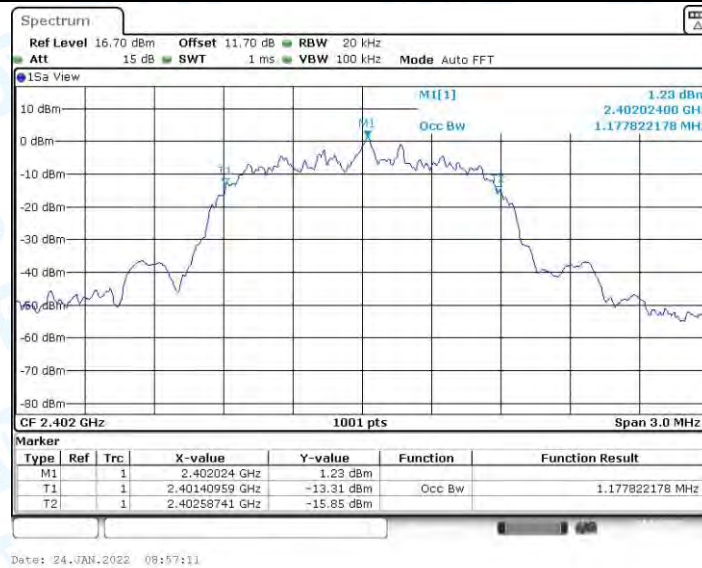
DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



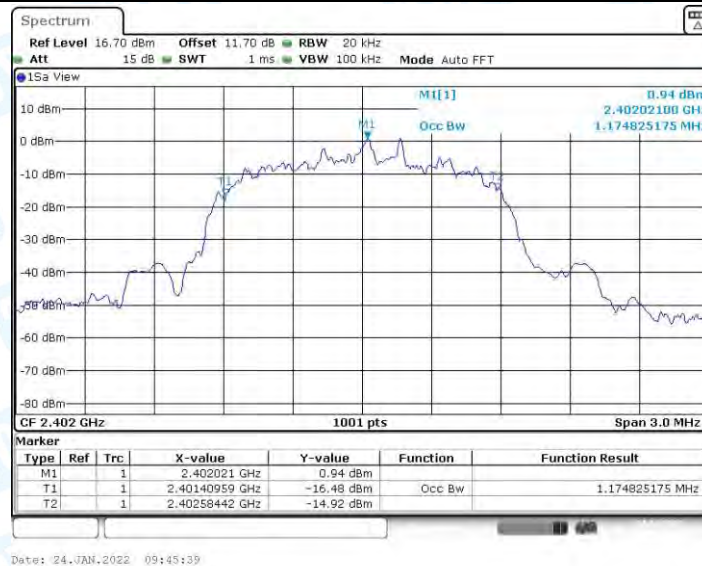
2DH5_Ant1_2402



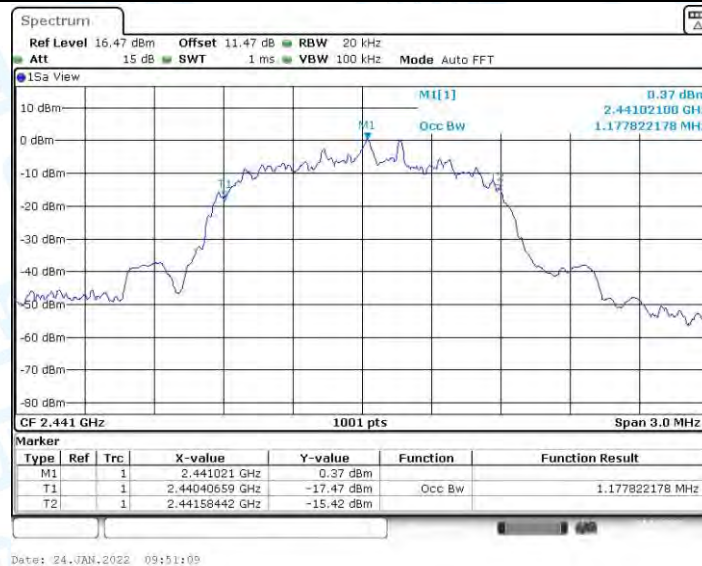
2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



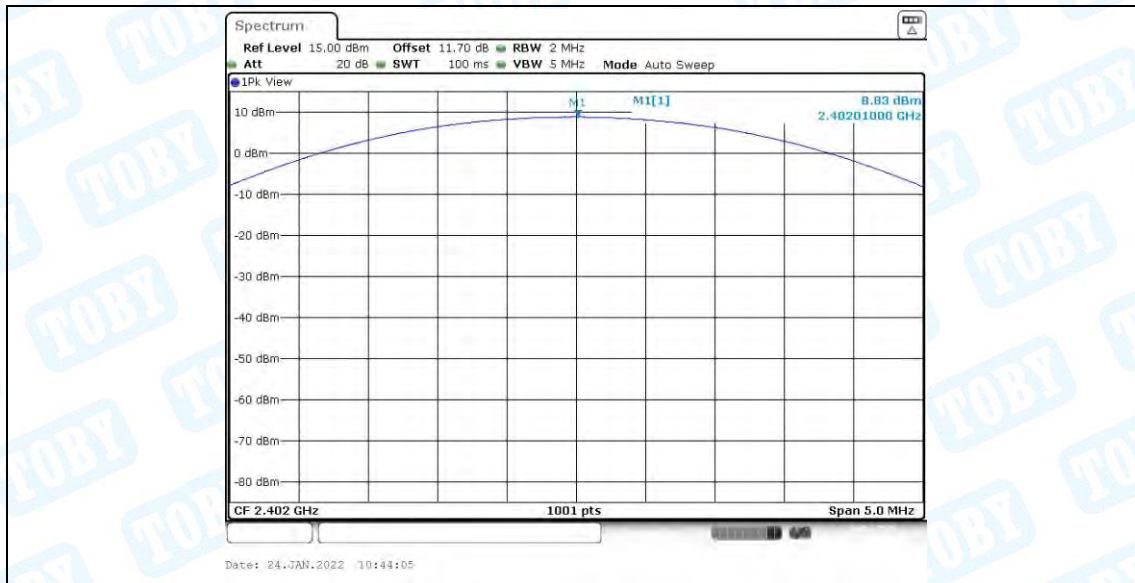
3DH5_Ant1_2480

3. Maximum conducted output power

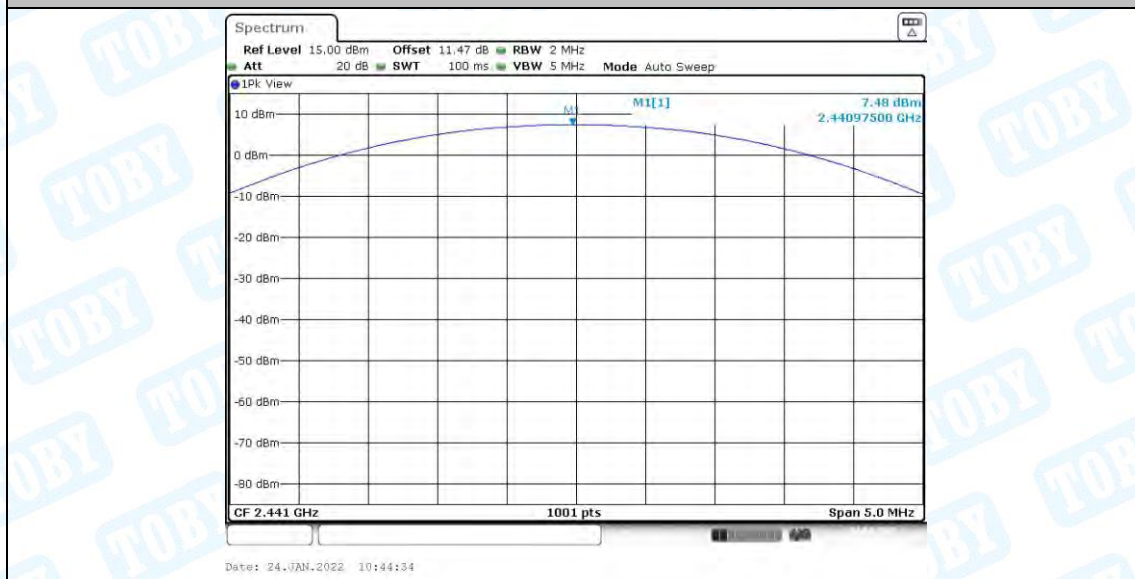
3.1. Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	8.83	≤21	PASS
		2441	7.48	≤21	PASS
		2480	9.81	≤21	PASS
2DH5	Ant1	2402	8.12	≤21	PASS
		2441	6.81	≤21	PASS
		2480	9.18	≤21	PASS
3DH5	Ant1	2402	8.11	≤21	PASS
		2441	6.8	≤21	PASS
		2480	9.17	≤21	PASS

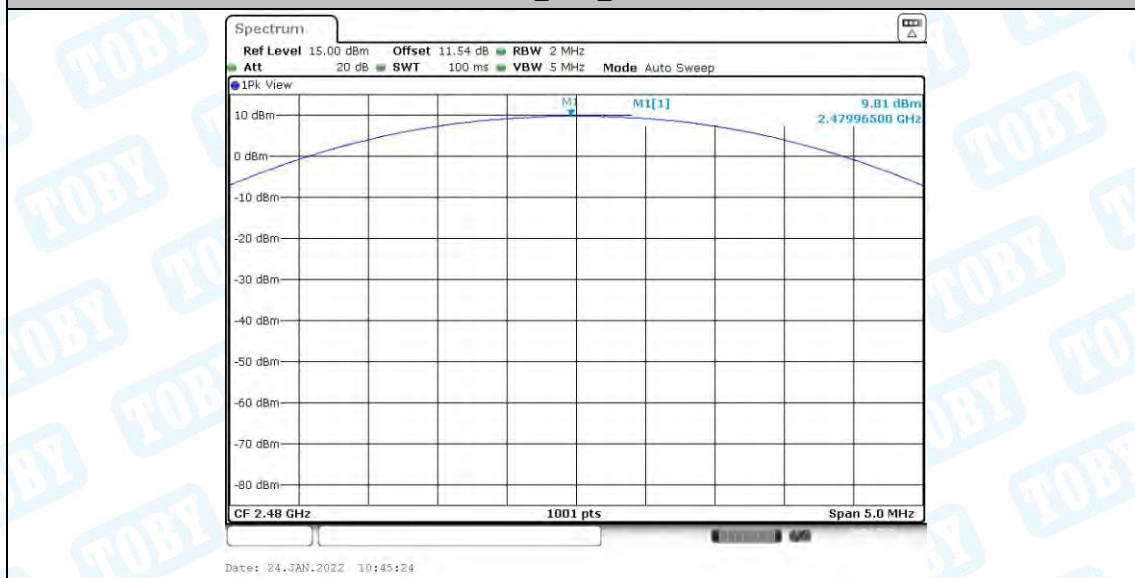
3.2. Test Graphs



DH5_Ant1_2402



DH5_Ant1_2441



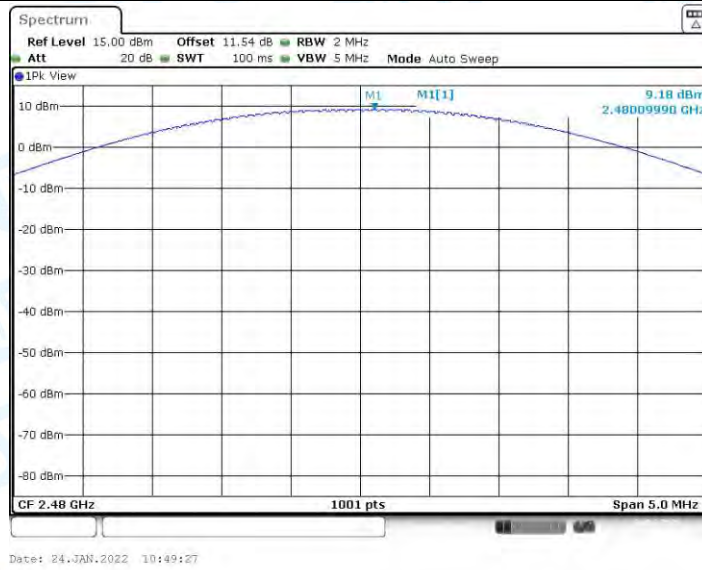
DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



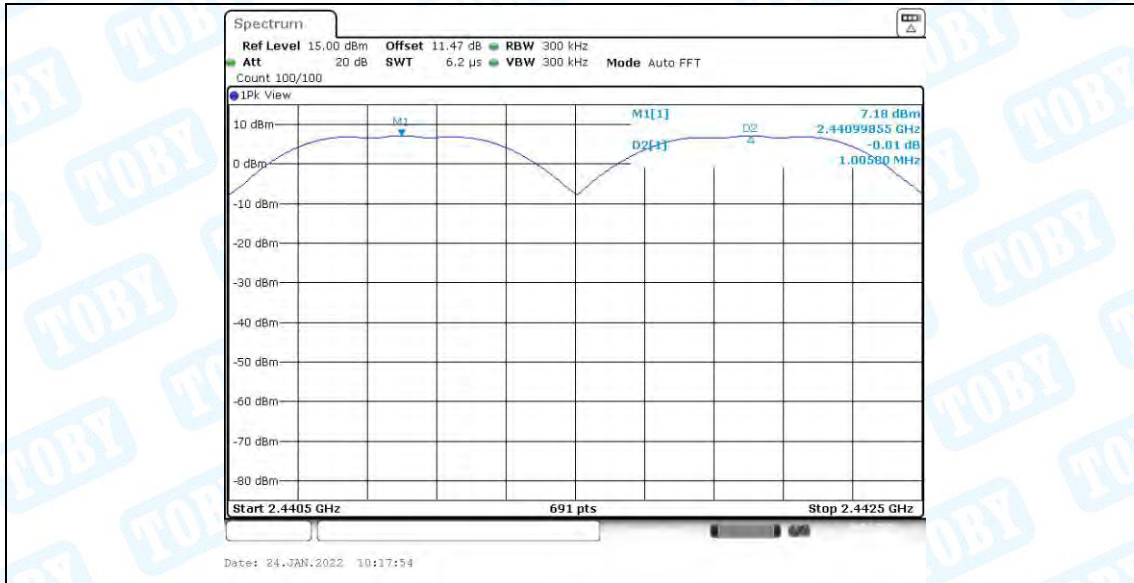
3DH5_Ant1_2480

4. Carrier frequency separation

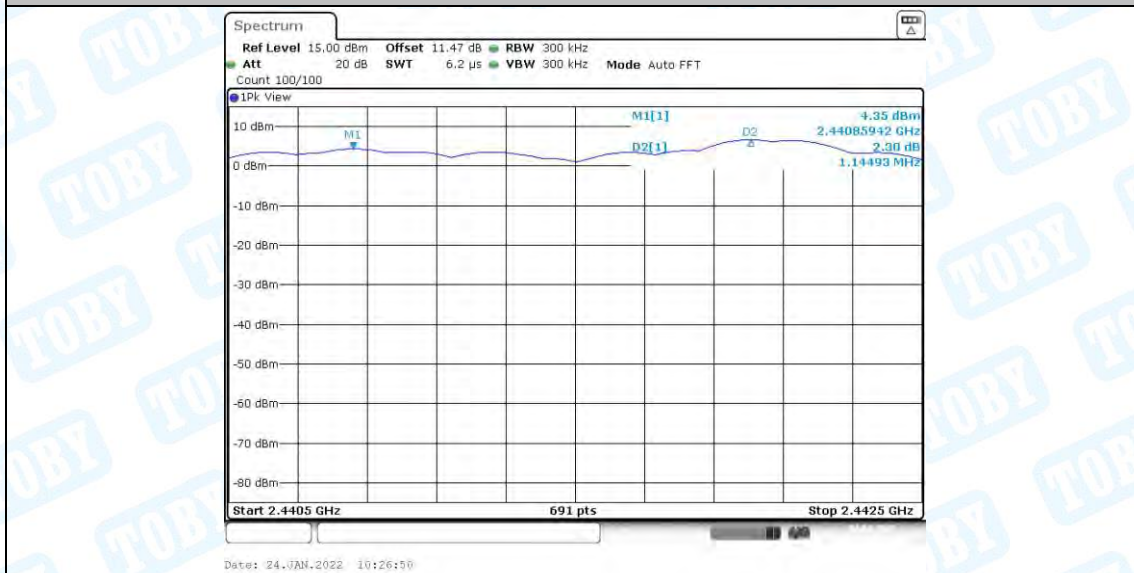
4.1. Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.006	≥ 0.970	PASS
2DH5	Ant1	Hop	1.145	≥ 0.860	PASS
3DH5	Ant1	Hop	1.003	≥ 0.867	PASS

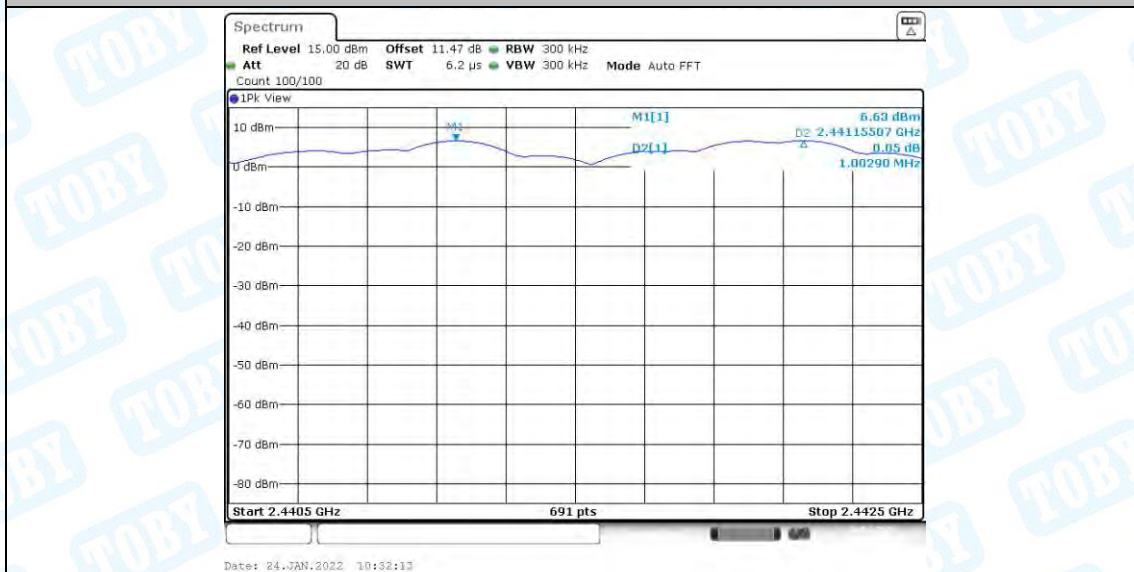
4.2. Test Graphs



DH5_Ant1_Hop



2DH5_Ant1_Hop



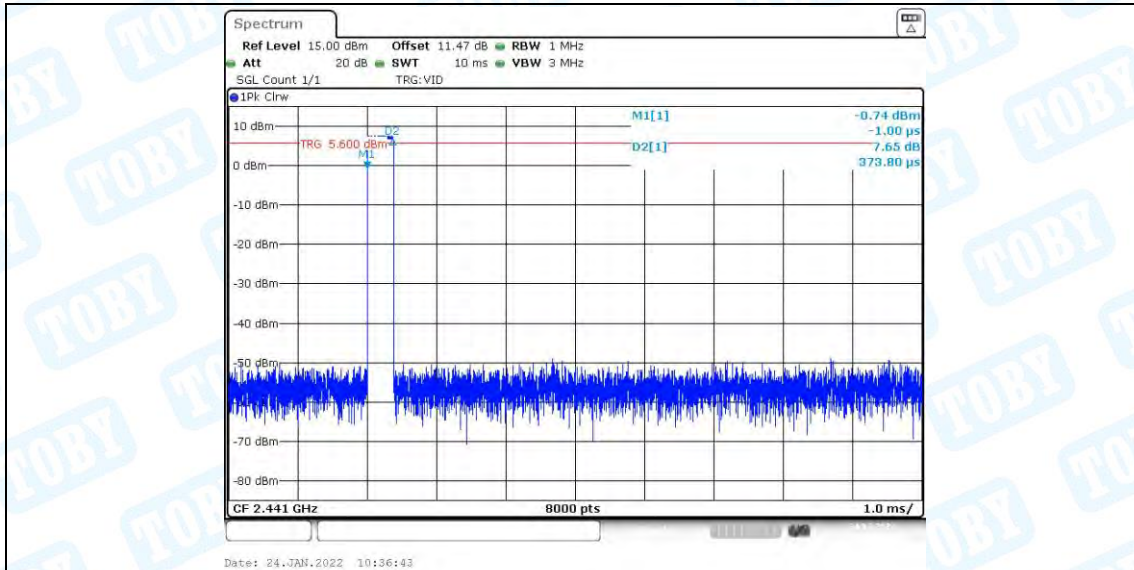
3DH5_Ant1_Hop

5. Time of occupancy

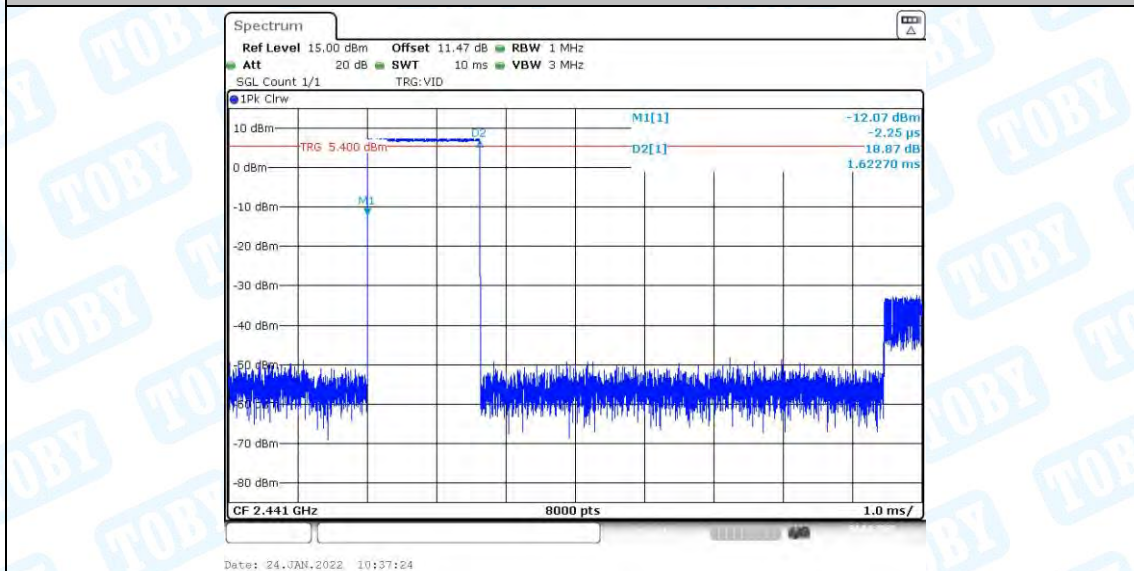
5.1. Test Result

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	0.306	≤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	1.63	160	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.87	106.67	0.306	≤0.4	PASS

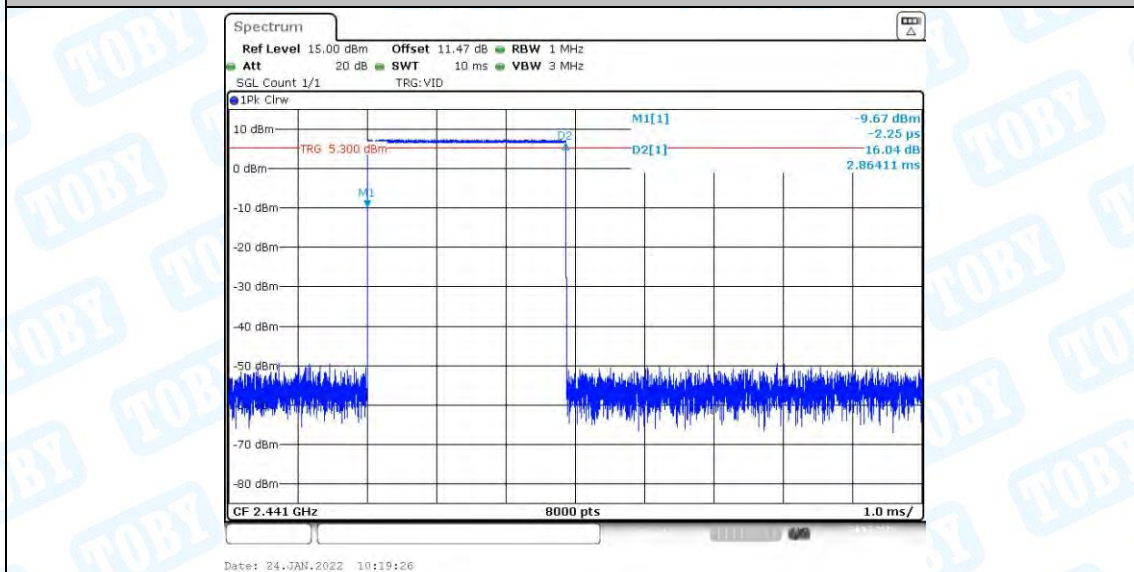
5.2. Test Graphs



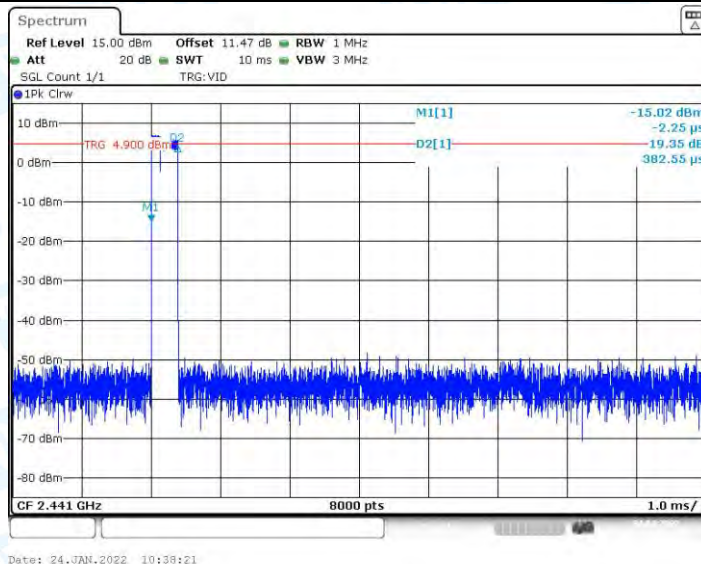
DH1_Ant1_Hop



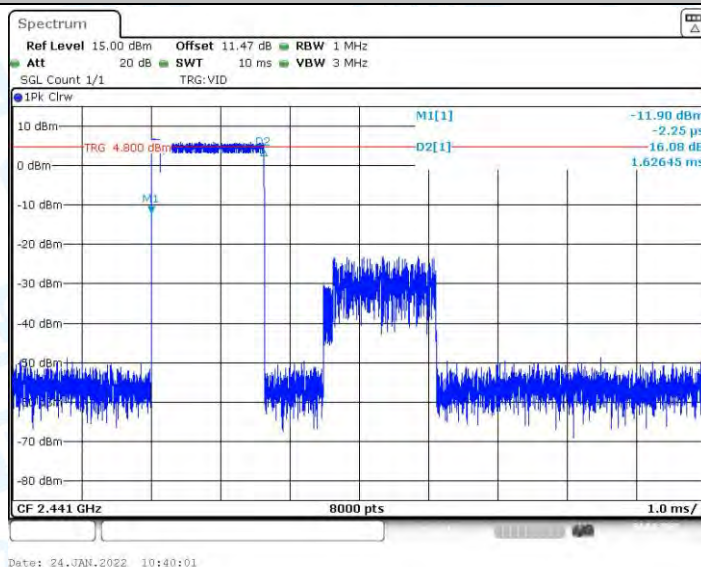
DH3_Ant1_Hop



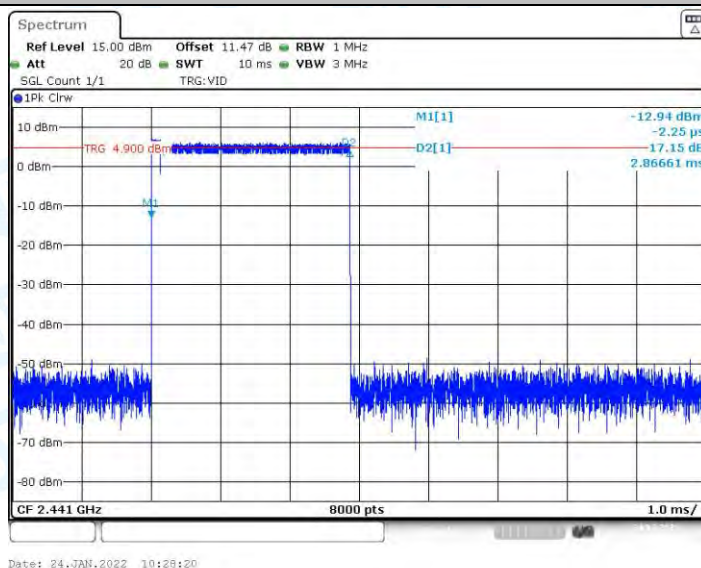
DH5_Ant1_Hop



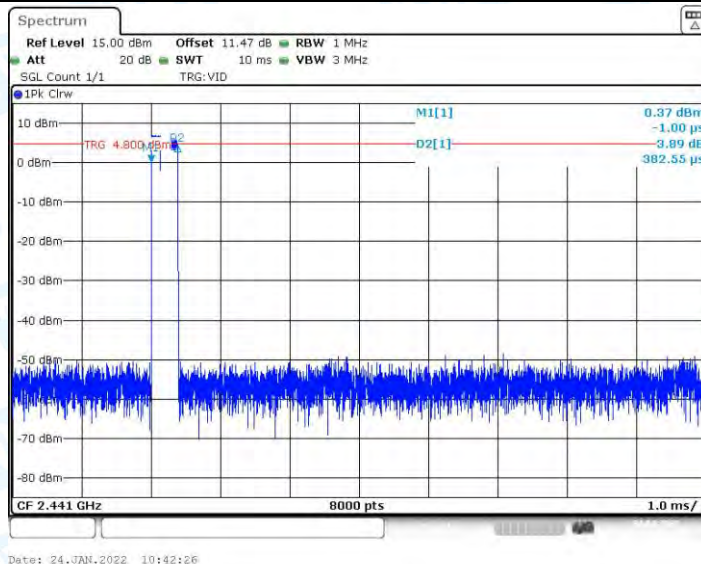
2DH1_Ant1_Hop



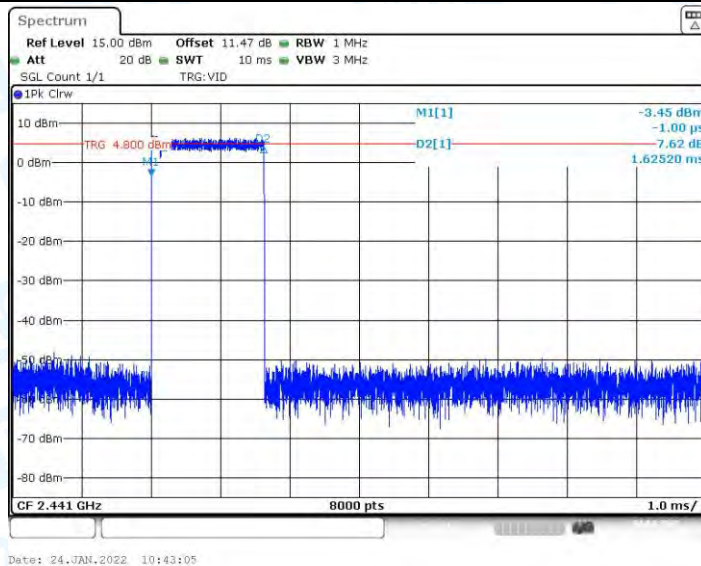
2DH3_Ant1_Hop



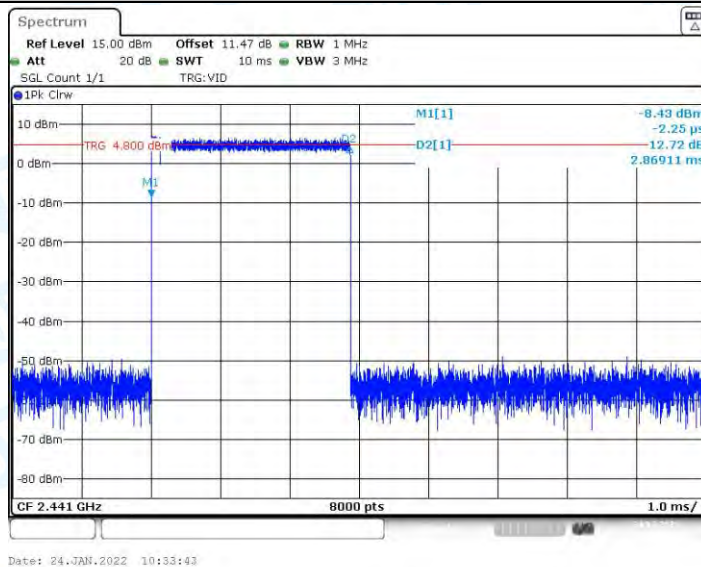
2DH5_Ant1_Hop



3DH1_Ant1_Hop



3DH3_Ant1_Hop



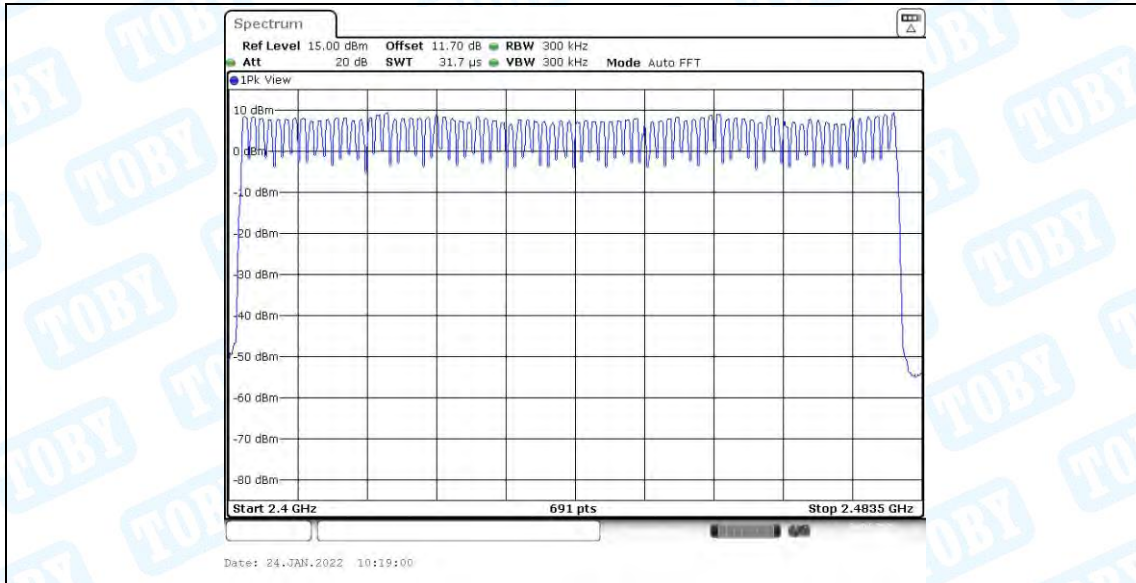
3DH5_Ant1_Hop

6. Number of hopping channels

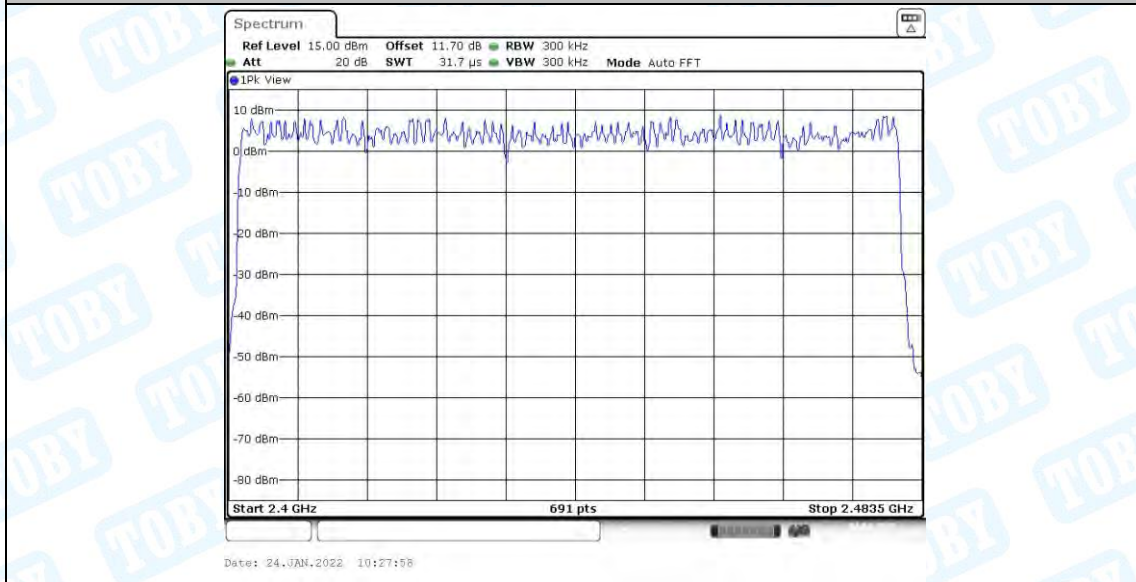
6.1. Test Result

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

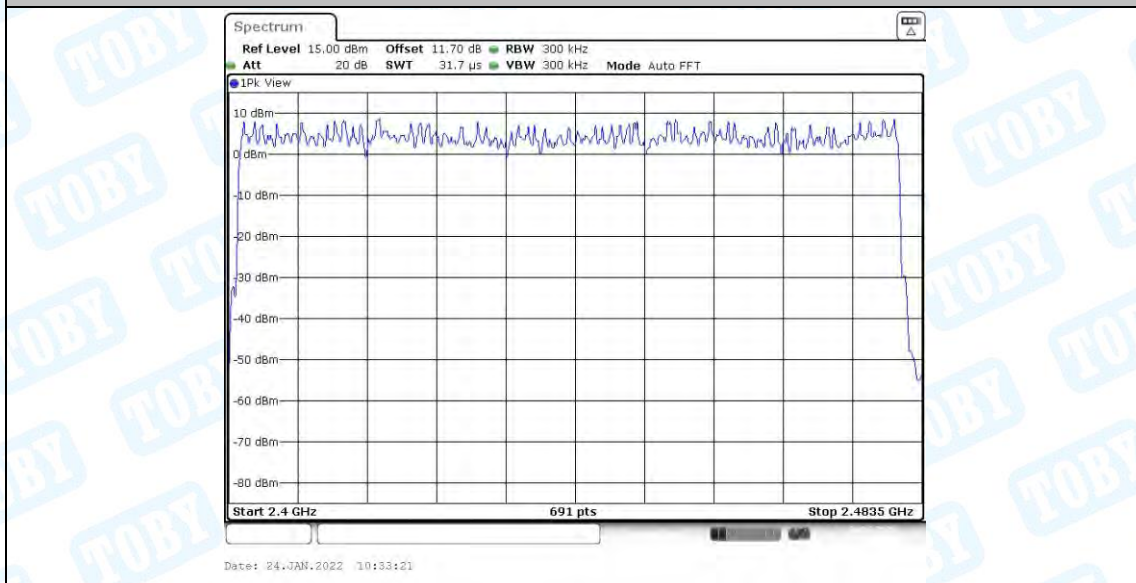
6.2.Test Graphs



DH5_Ant1_Hop



2DH5_Ant1_Hop



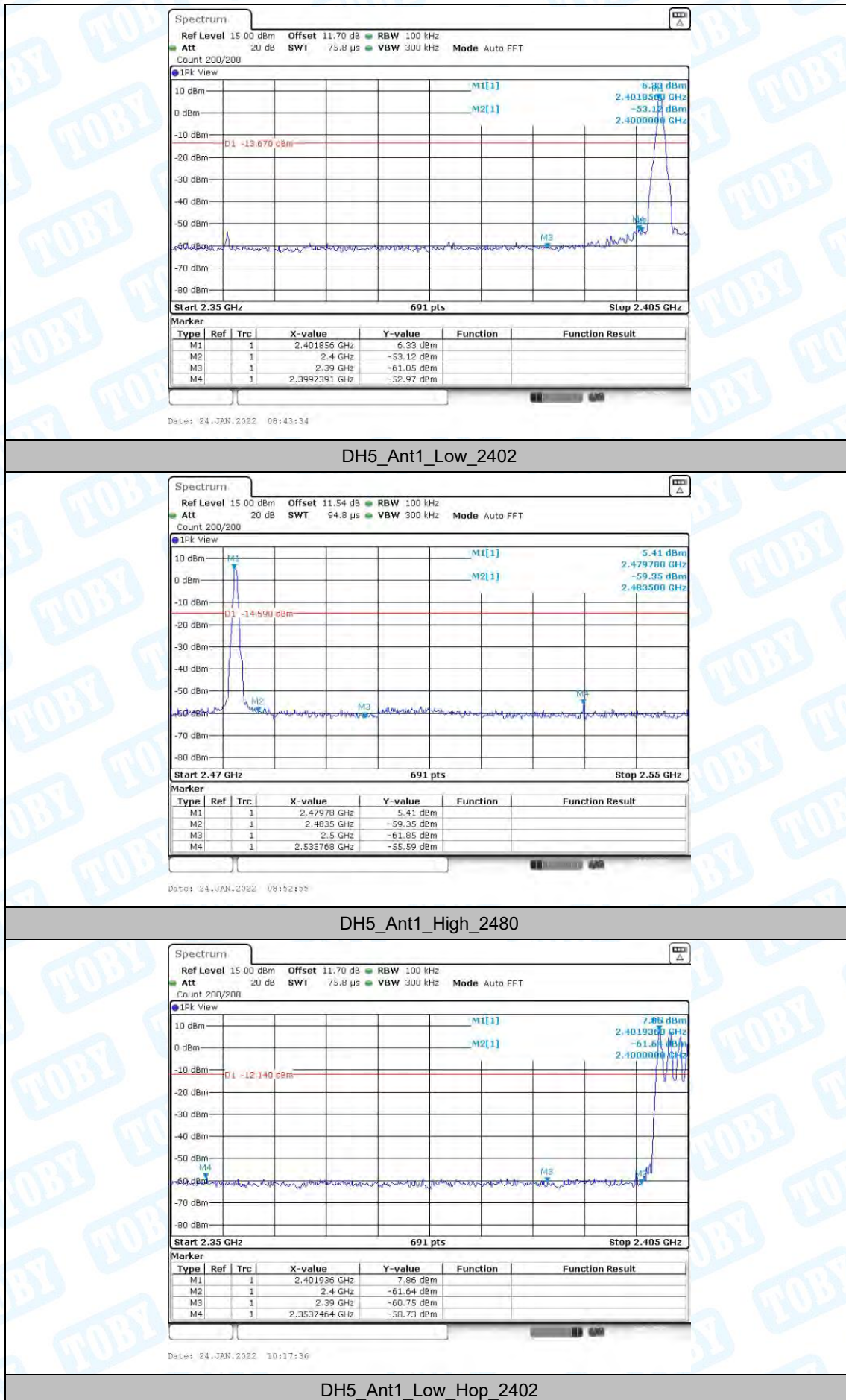
3DH5_Ant1_Hop

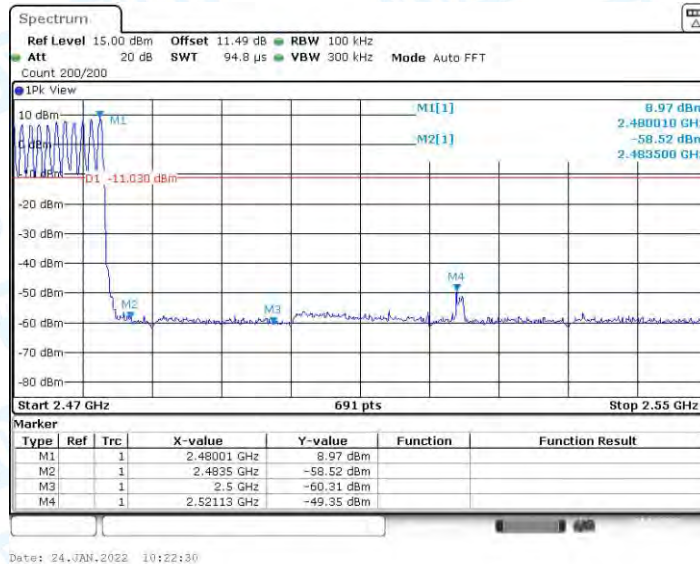
7. Band edge measurements

7.1. Test Result

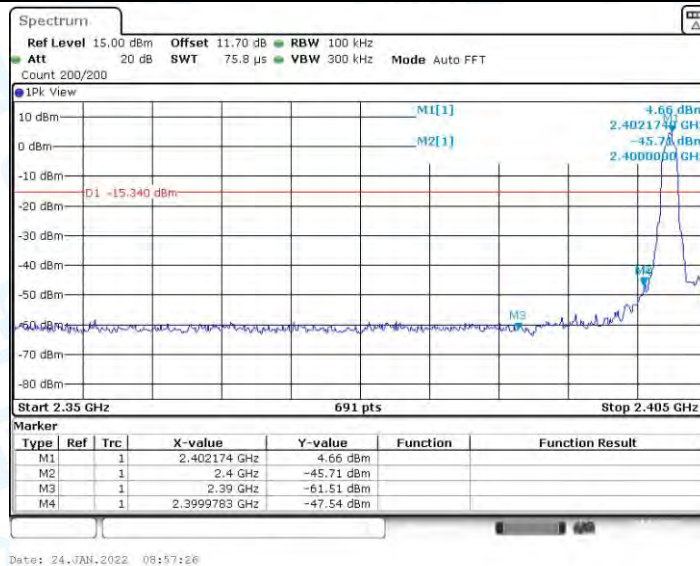
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	6.33	-52.97	≤ -13.67	PASS
		High	2480	5.41	-55.59	≤ -14.59	PASS
		Low	Hop_2402	7.86	-58.73	≤ -12.14	PASS
		High	Hop_2480	8.97	-49.35	≤ -11.03	PASS
2DH5	Ant1	Low	2402	4.66	-47.54	≤ -15.34	PASS
		High	2480	3.64	-52.13	≤ -16.36	PASS
		Low	Hop_2402	5.44	-58	≤ -14.56	PASS
		High	Hop_2480	7.29	-55.75	≤ -12.71	PASS
3DH5	Ant1	Low	2402	4.51	-48.76	≤ -15.49	PASS
		High	2480	3.75	-54.08	≤ -16.25	PASS
		Low	Hop_2402	2.87	-58.82	≤ -17.13	PASS
		High	Hop_2480	7.27	-54.98	≤ -12.73	PASS

7.2. Test Graphs

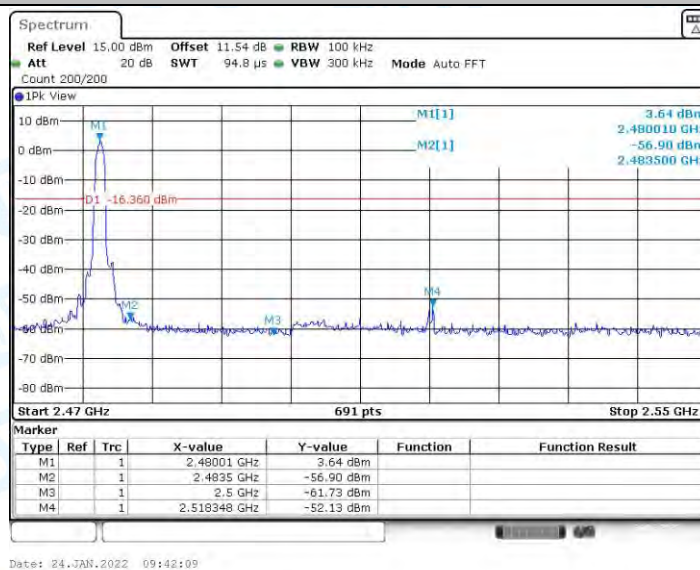




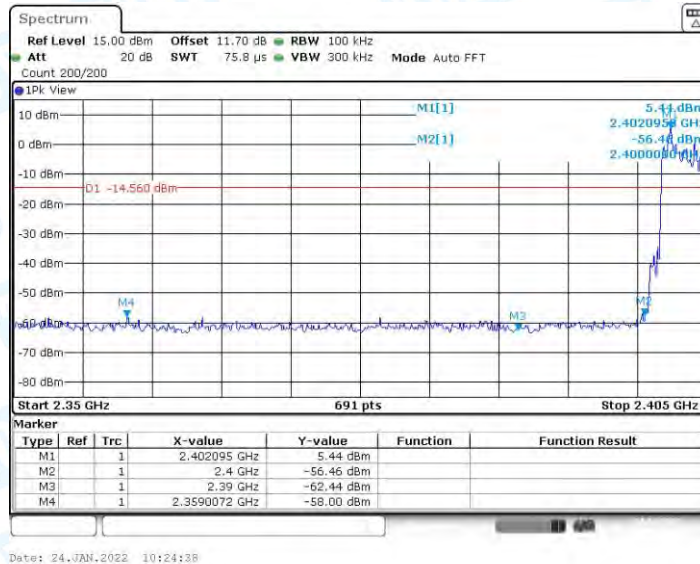
DH5_Ant1_High_Hop_2480



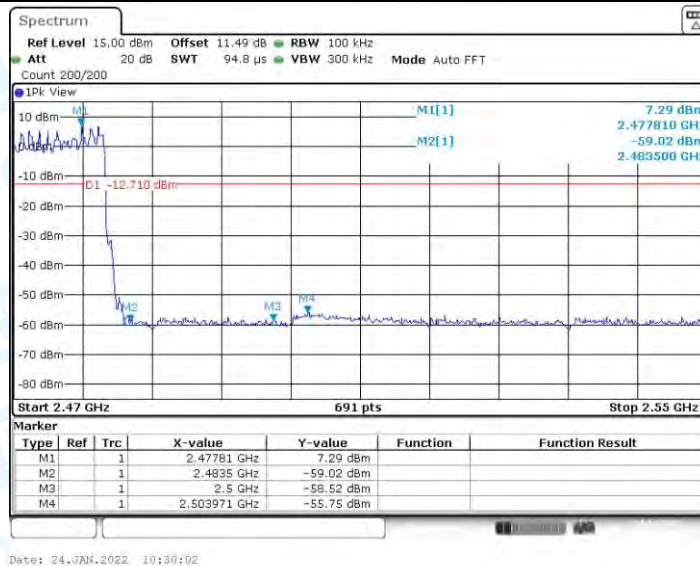
2DH5_Ant1_Low_2402



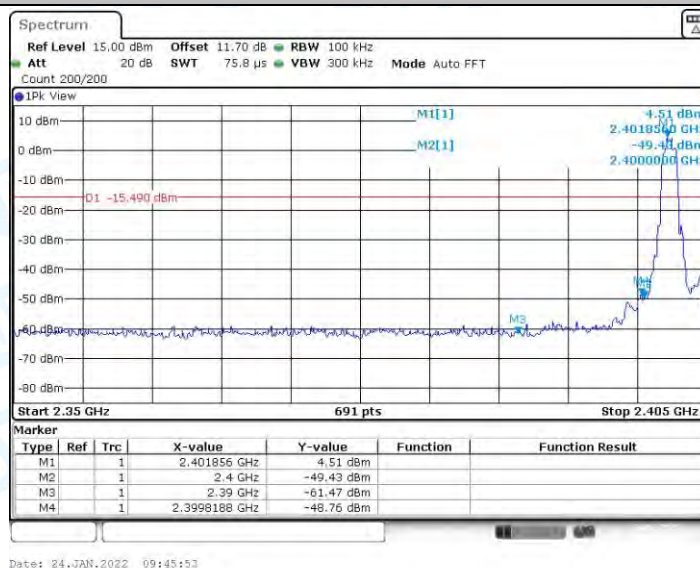
2DH5_Ant1_High_2480



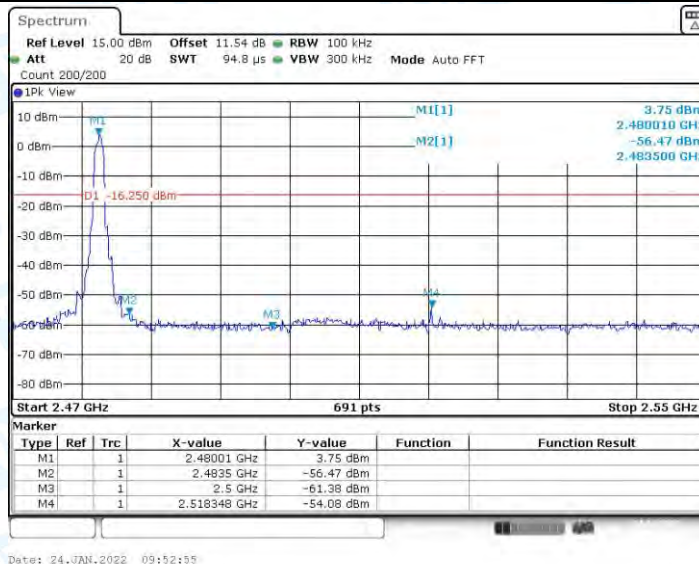
2DH5_Ant1_Low_Hop_2402



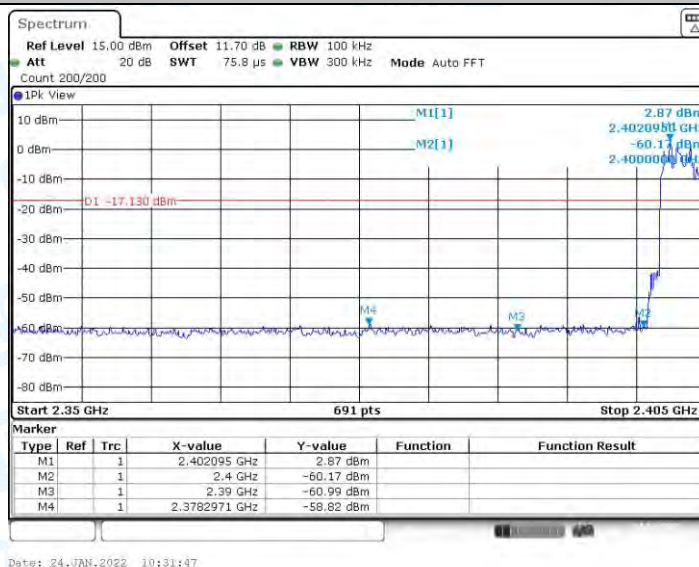
2DH5_Ant1_High_Hop_2480



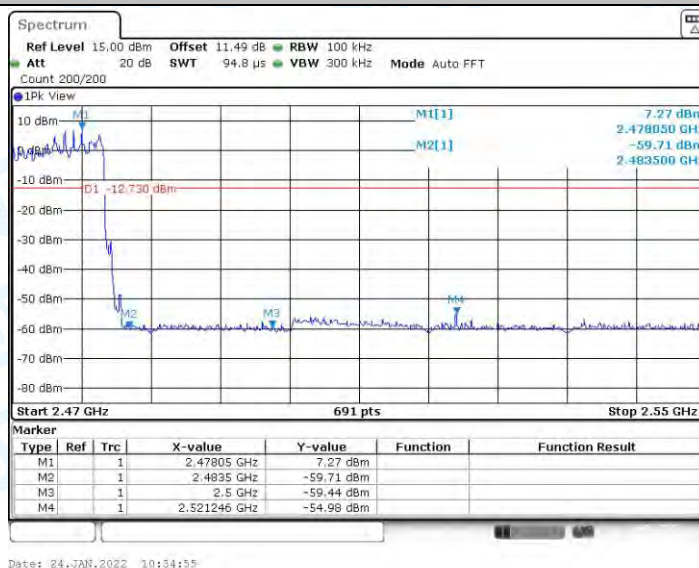
3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



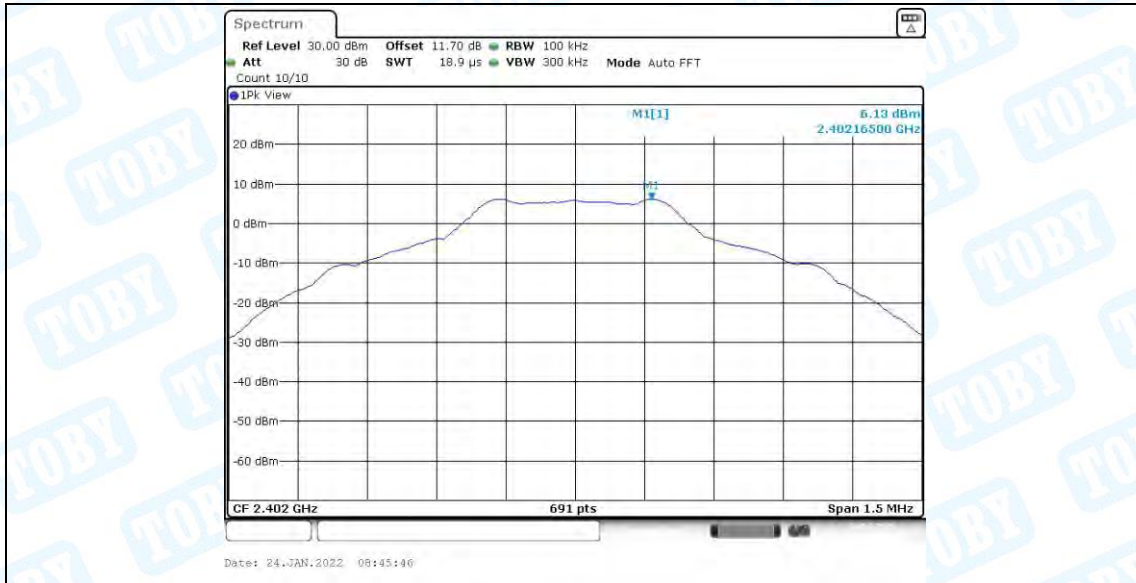
3DH5_Ant1_High_Hop_2480

8. Conducted Spurious Emission

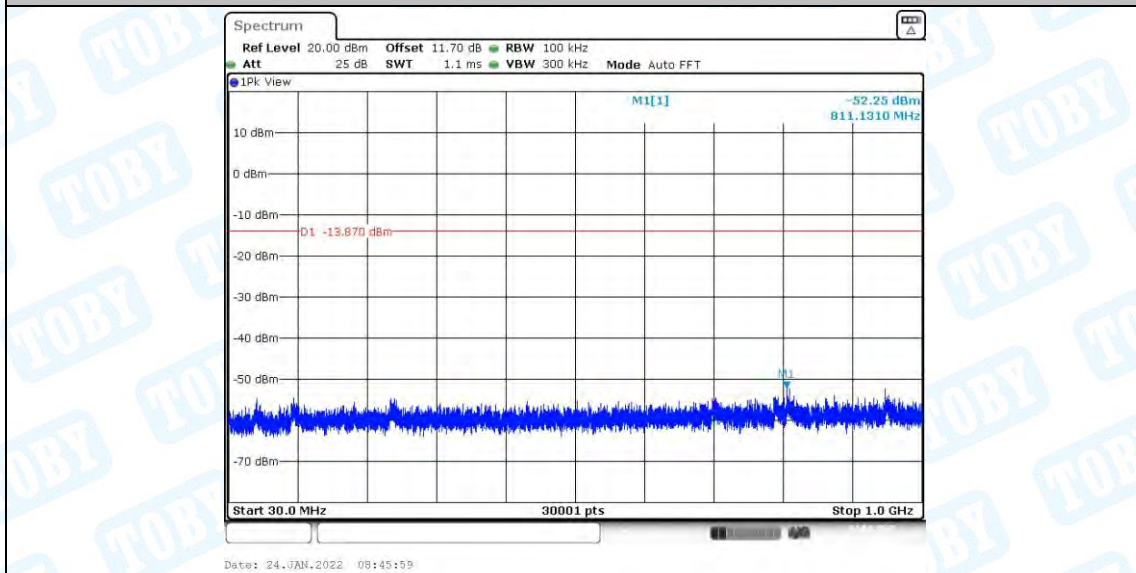
8.1. Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	6.13	6.13	---	PASS
			30~1000	6.13	-52.25	≤-13.87	PASS
			1000~26500	6.13	-47.2	≤-13.87	PASS
		2441	Reference	5.54	5.54	---	PASS
			30~1000	5.54	-52.96	≤-14.46	PASS
			1000~26500	5.54	-46.66	≤-14.46	PASS
		2480	Reference	5.27	5.27	---	PASS
			30~1000	5.27	-52.96	≤-14.73	PASS
			1000~26500	5.27	-47.54	≤-14.73	PASS
2DH5	Ant1	2402	Reference	4.61	4.61	---	PASS
			30~1000	4.61	-52.97	≤-15.39	PASS
			1000~26500	4.61	-47.2	≤-15.39	PASS
		2441	Reference	4.00	4.00	---	PASS
			30~1000	4.00	-52.63	≤-16	PASS
			1000~26500	4.00	-47.5	≤-16	PASS
		2480	Reference	3.81	3.81	---	PASS
			30~1000	3.81	-53.49	≤-16.19	PASS
			1000~26500	3.81	-46.94	≤-16.19	PASS
3DH5	Ant1	2402	Reference	4.38	4.38	---	PASS
			30~1000	4.38	-53.22	≤-15.62	PASS
			1000~26500	4.38	-46.29	≤-15.62	PASS
		2441	Reference	3.94	3.94	---	PASS
			30~1000	3.94	-53.68	≤-16.06	PASS
			1000~26500	3.94	-46.38	≤-16.06	PASS
		2480	Reference	3.97	3.97	---	PASS
			30~1000	3.97	-52.42	≤-16.03	PASS
			1000~26500	3.97	-47.27	≤-16.03	PASS

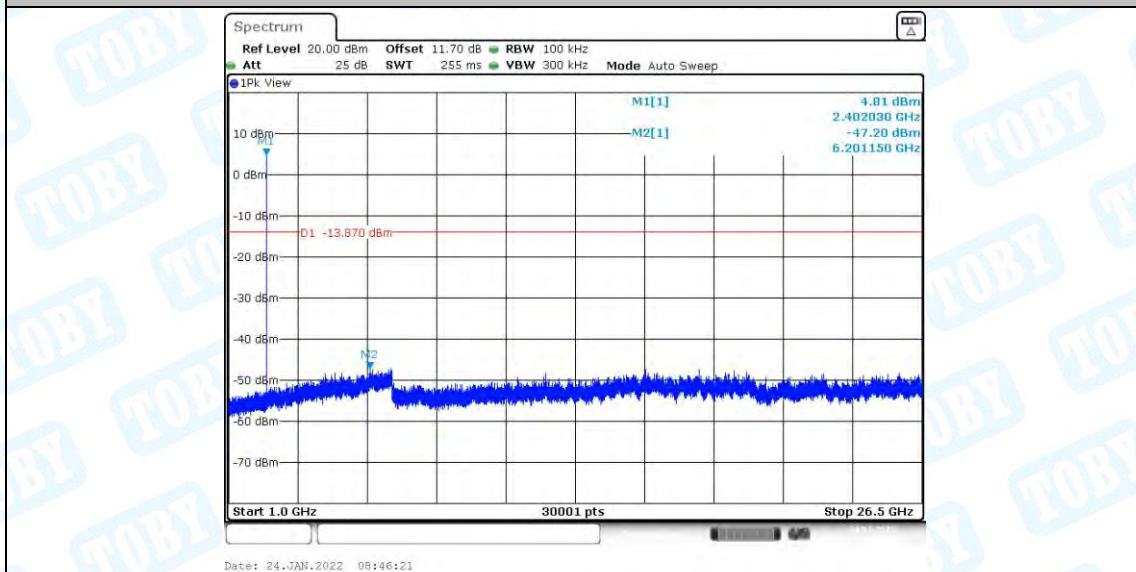
8.2.Test Graphs



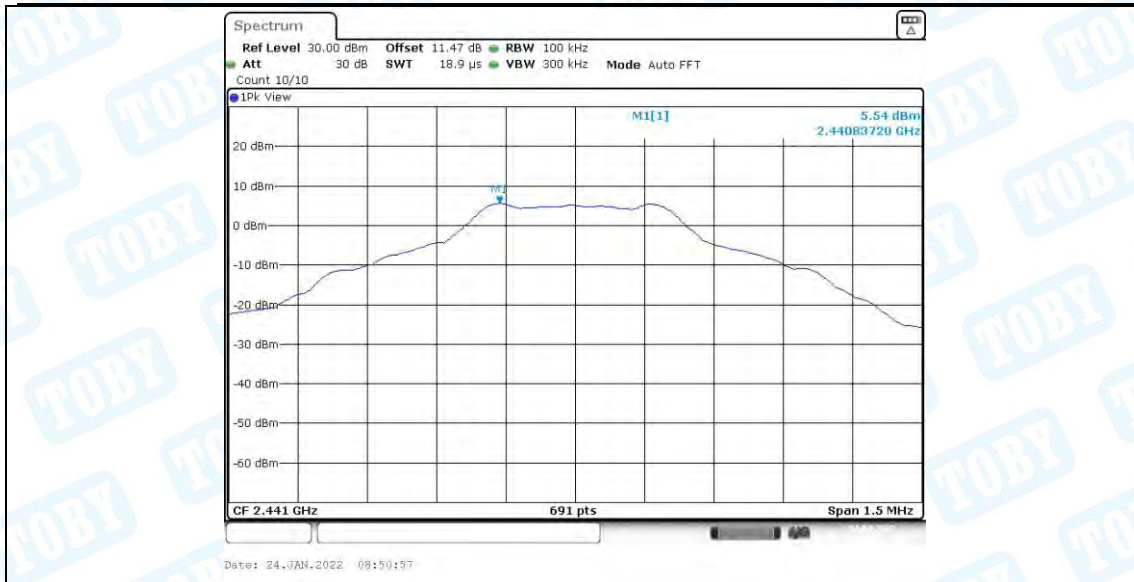
DH5_Ant1_2402_0~Reference



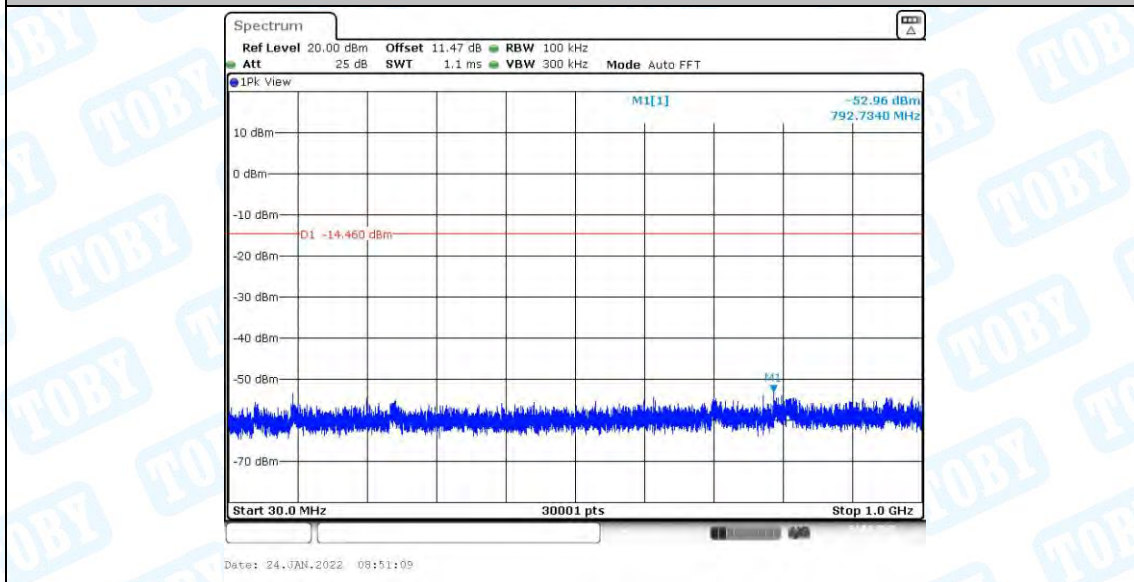
DH5_Ant1_2402_30~1000



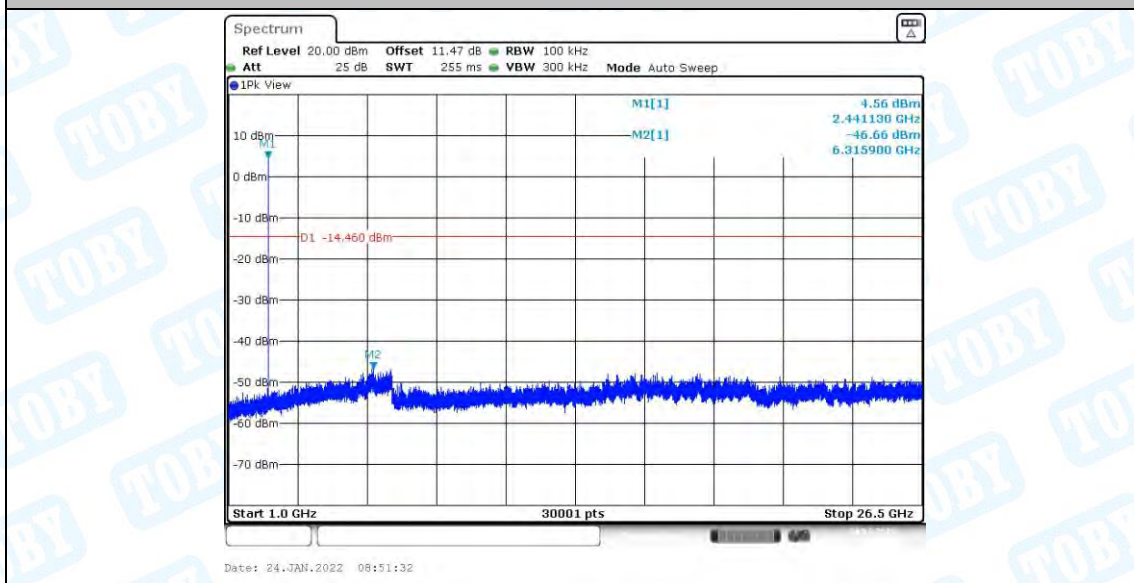
DH5_Ant1_2402_1000~26500



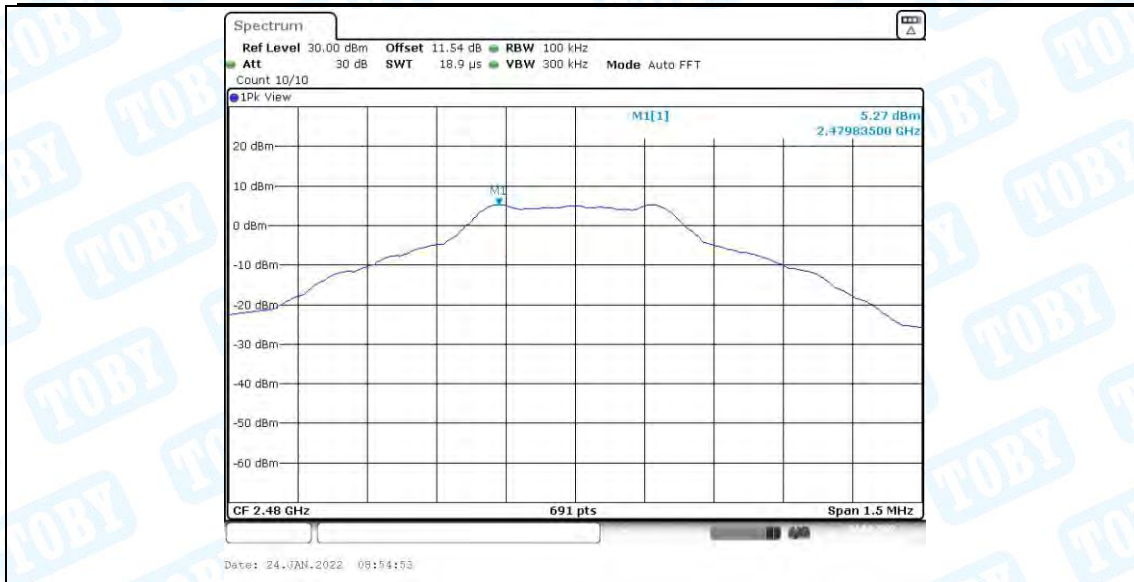
DH5_Ant1_2441_0~Reference



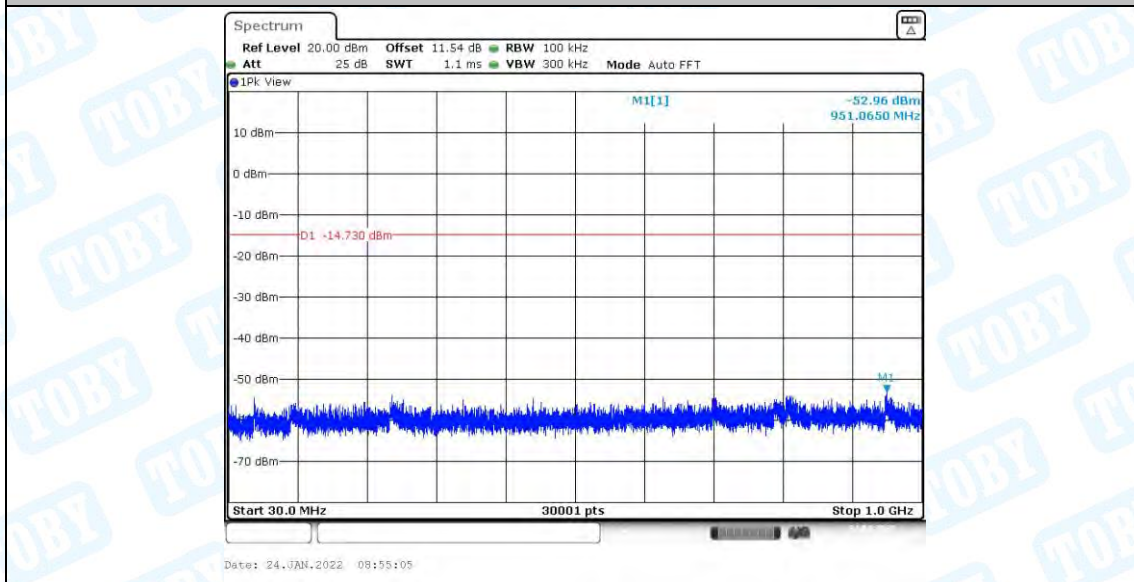
DH5_Ant1_2441_30~1000



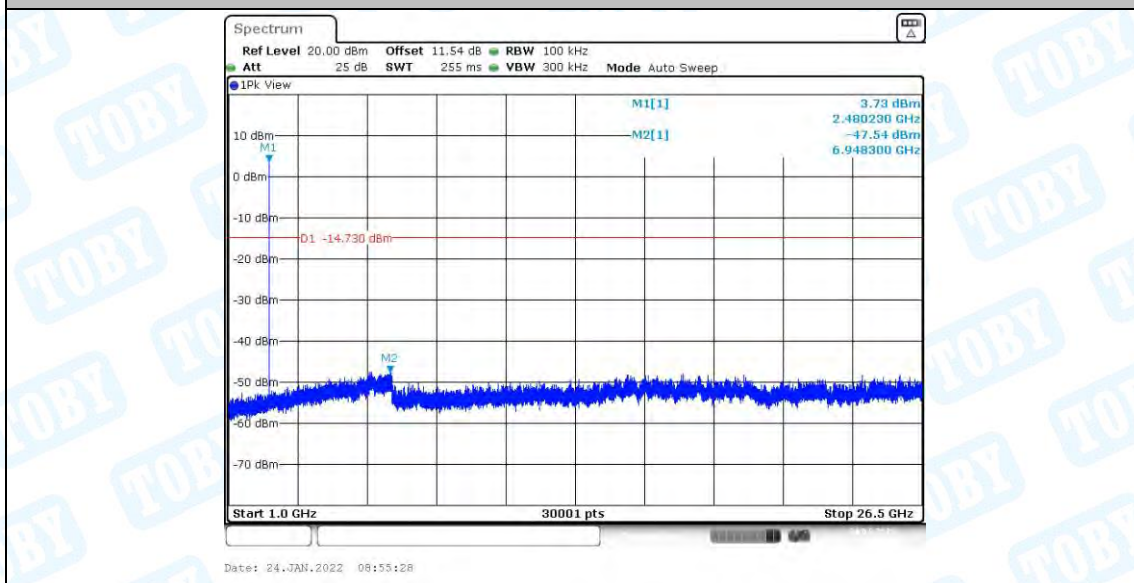
DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



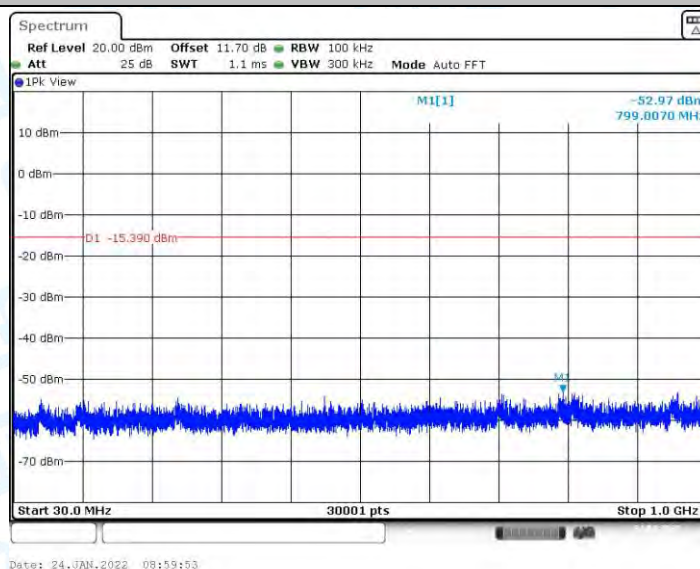
DH5_Ant1_2480_30~1000



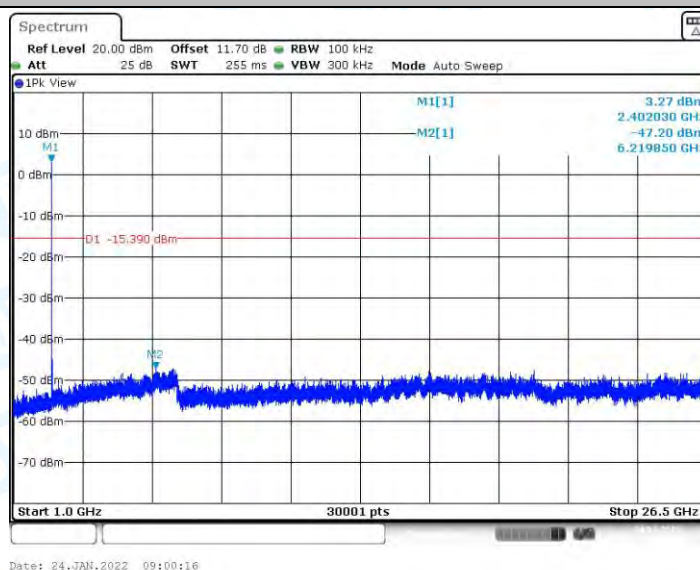
DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



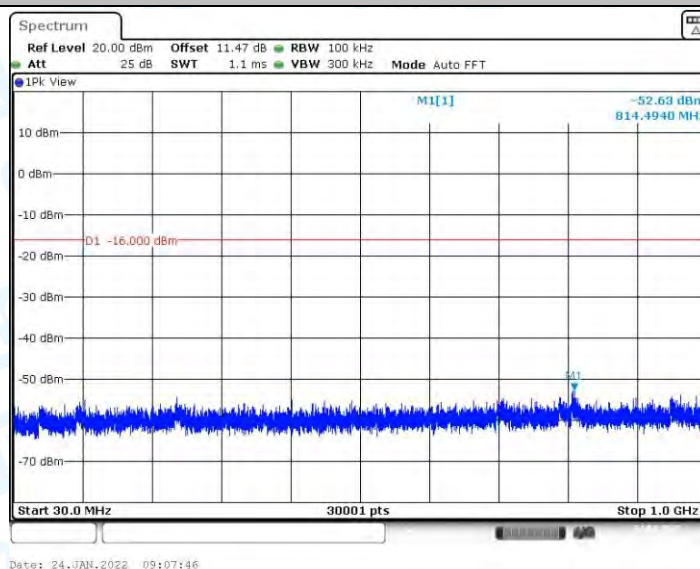
2DH5_Ant1_2402_30~1000



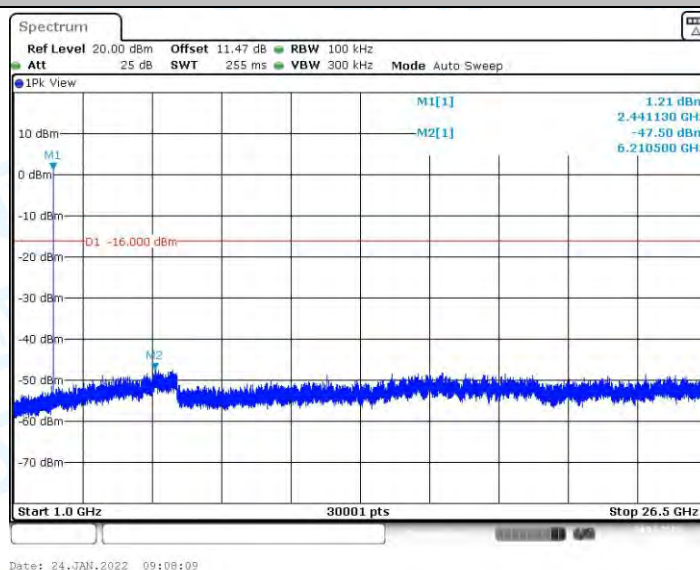
2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference



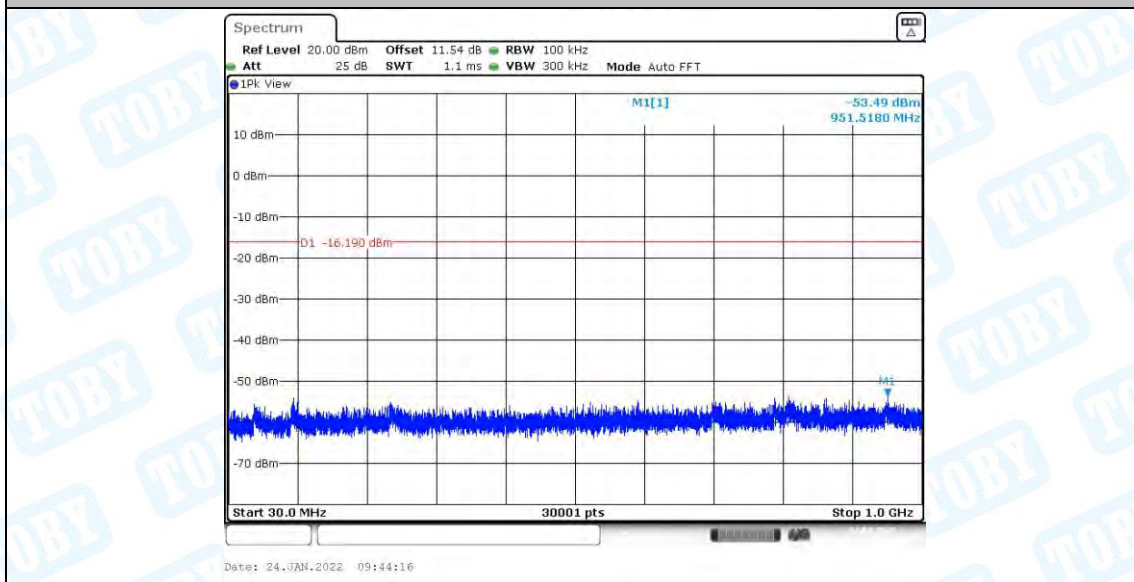
2DH5_Ant1_2441_30~1000



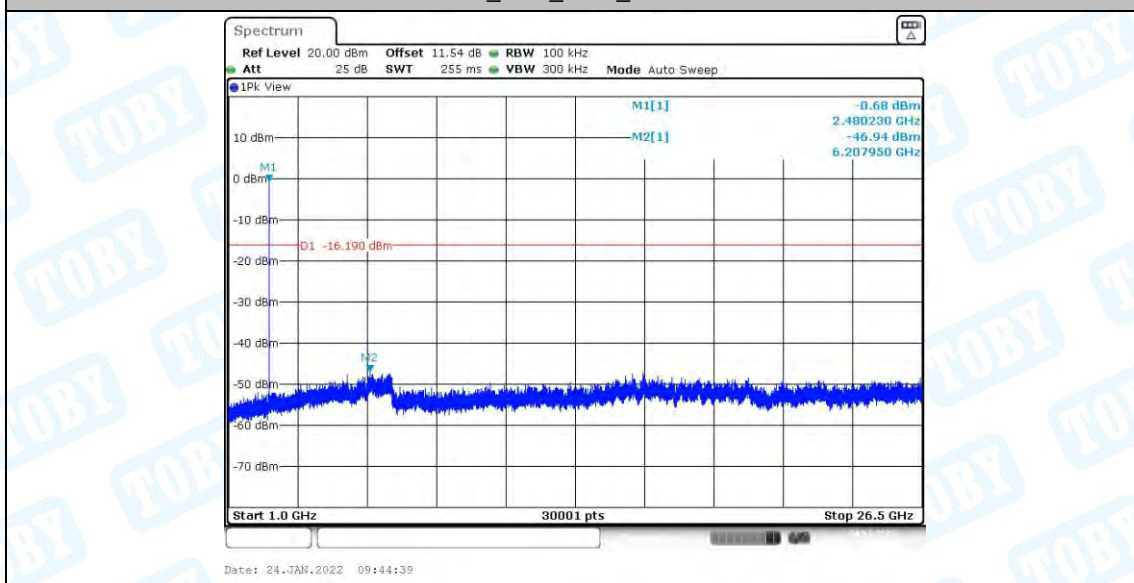
2DH5_Ant1_2441_1000~26500



2DH5_Ant1_2480_0~Reference



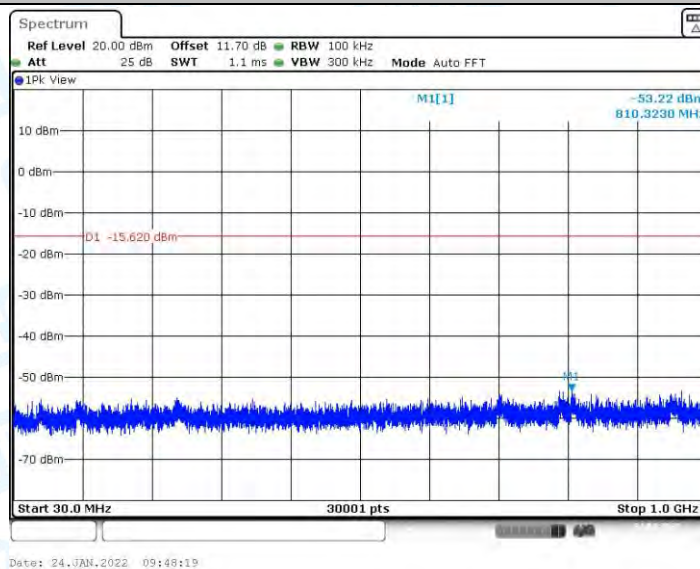
2DH5_Ant1_2480_30~1000



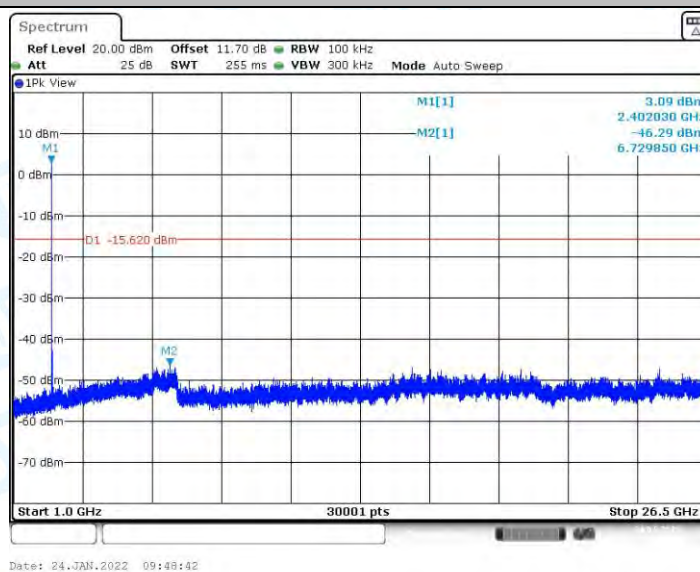
2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference



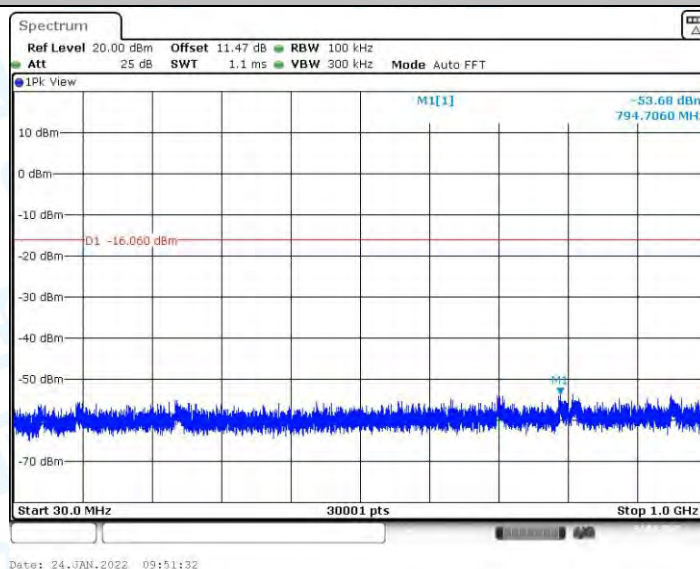
3DH5_Ant1_2402_30~1000



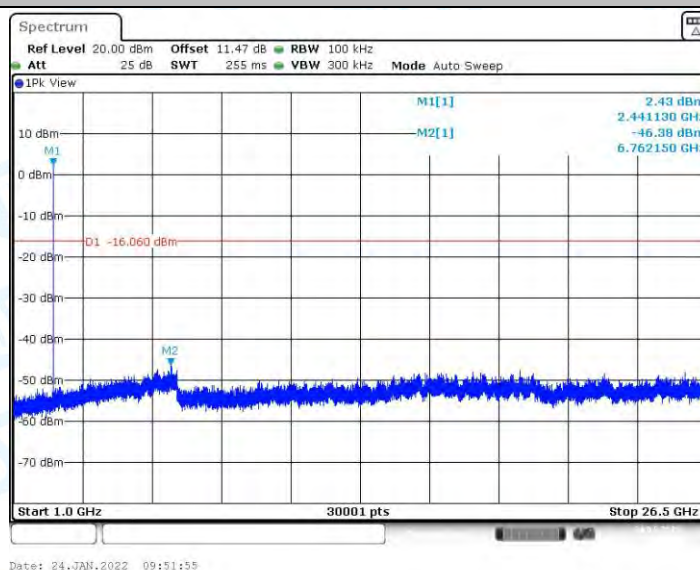
3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



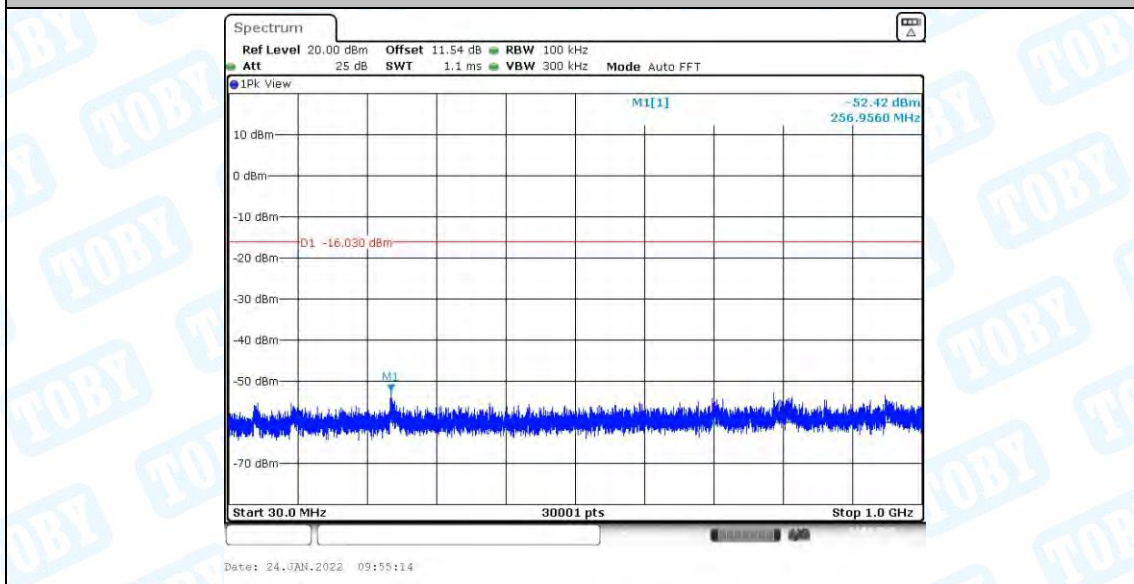
3DH5_Ant1_2441_30~1000



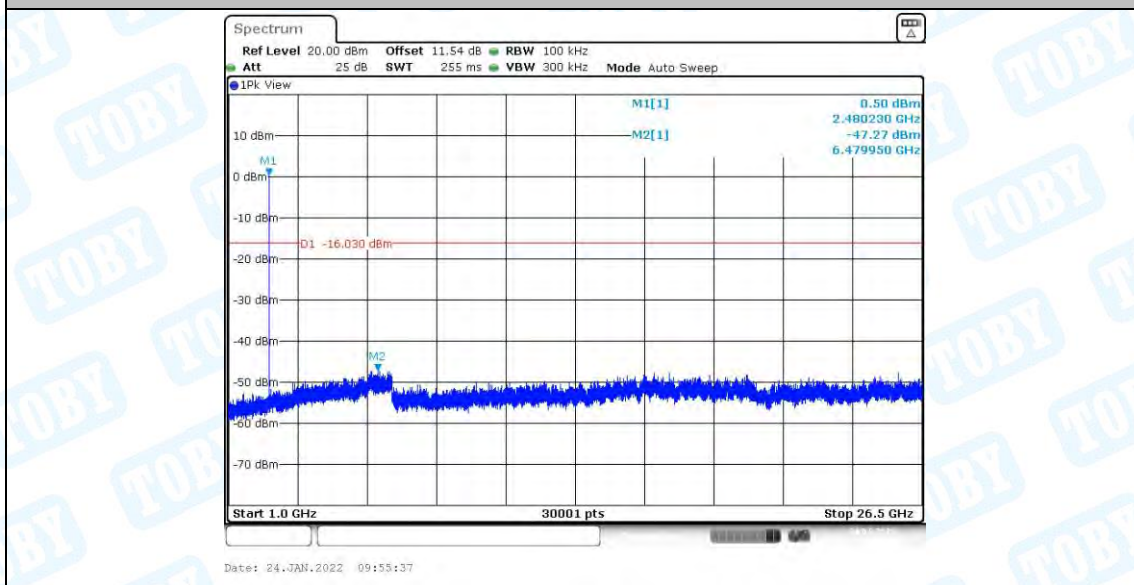
3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500

9. Emissions in Restricted Bands

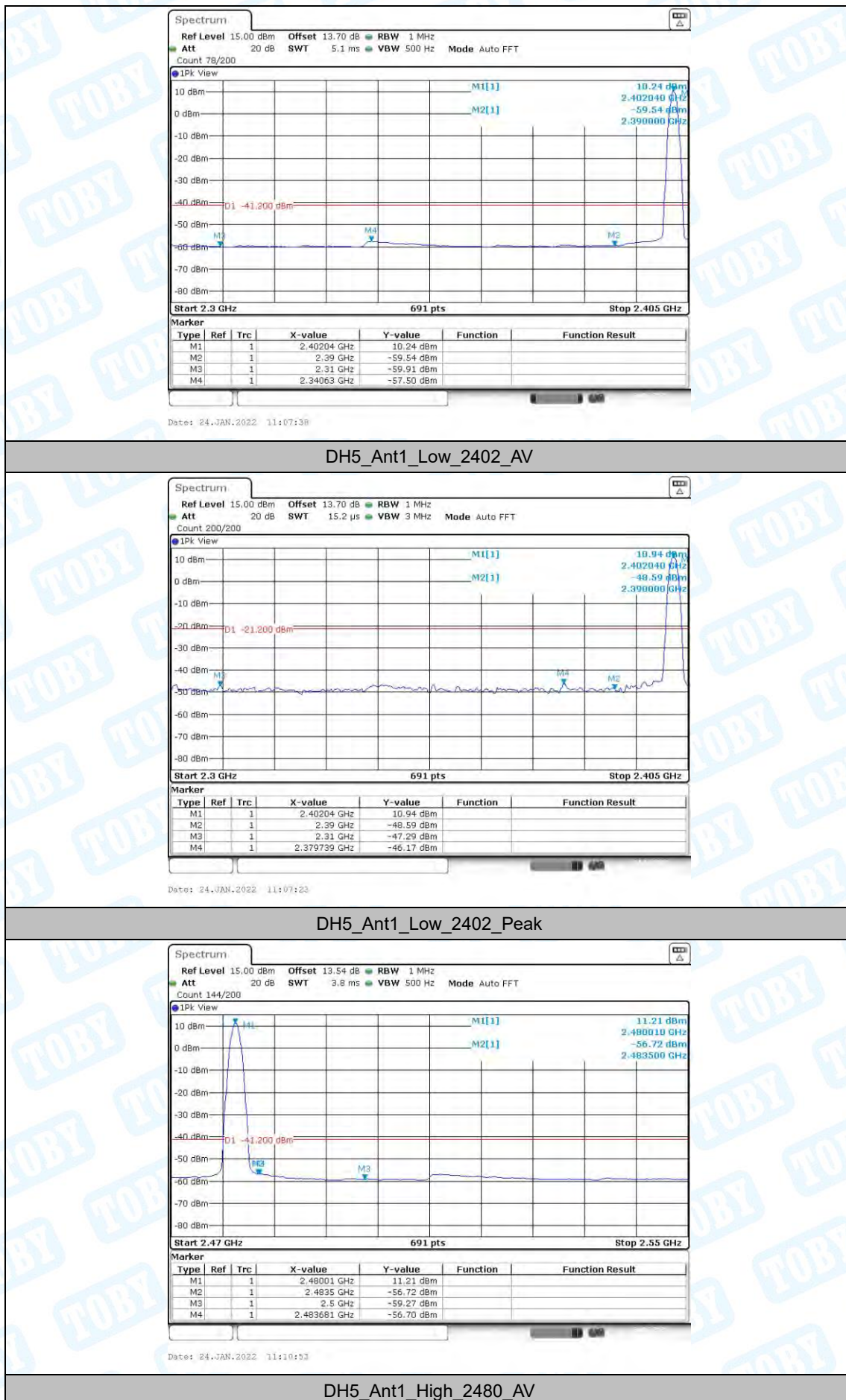
9.1. Test Result

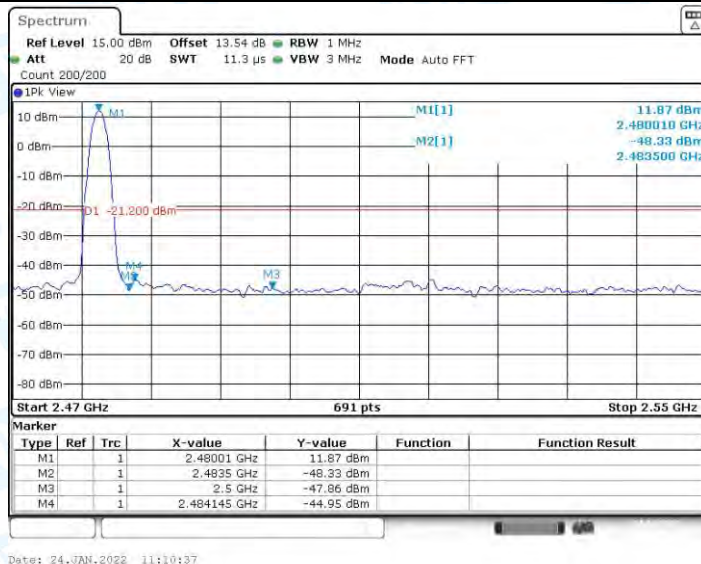
TestMode	Antenna	ChName	Channel	Detector	Freq. [MHz]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-59.91	≤-41.20	PASS
				AV	2340.630	-57.5	≤-41.20	PASS
				AV	2390.000	-59.54	≤-41.20	PASS
				Peak	2310.000	-47.29	≤-21.20	PASS
				Peak	2379.739	-46.17	≤-21.20	PASS
				Peak	2390.000	-48.59	≤-21.20	PASS
		High	2480	AV	2483.500	-56.72	≤-41.20	PASS
				AV	2483.681	-56.7	≤-41.20	PASS
				AV	2500.000	-59.27	≤-41.20	PASS
				Peak	2483.500	-48.33	≤-21.20	PASS
				Peak	2484.145	-44.95	≤-21.20	PASS
				Peak	2500.000	-47.86	≤-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-59.79	≤-41.20	PASS
				AV	2340.783	-57.61	≤-41.20	PASS
				AV	2390.000	-59.42	≤-41.20	PASS
				Peak	2310.000	-48.47	≤-21.20	PASS
				Peak	2341.239	-45.57	≤-21.20	PASS
				Peak	2390.000	-49.68	≤-21.20	PASS
		High	2480	AV	2483.500	-56.12	≤-41.20	PASS
				AV	2483.565	-56.24	≤-41.20	PASS
				AV	2500.000	-59.13	≤-41.20	PASS
				Peak	2483.500	-47.69	≤-21.20	PASS
				Peak	2484.957	-45.81	≤-21.20	PASS
				Peak	2500.000	-47.68	≤-21.20	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-59.75	≤-41.20	PASS
				AV	2340.630	-57.5	≤-41.20	PASS
				AV	2390.000	-59.59	≤-41.20	PASS
				Peak	2310.000	-49.78	≤-21.20	PASS
				Peak	2342.000	-45.96	≤-21.20	PASS
				Peak	2390.000	-48.75	≤-21.20	PASS
		High	2480	AV	2483.500	-56.42	≤-41.20	PASS
				AV	2483.565	-56.53	≤-41.20	PASS
				AV	2500.000	-58.96	≤-41.20	PASS
				Peak	2483.500	-46.53	≤-21.20	PASS
				Peak	2484.029	-44.57	≤-21.20	PASS
				Peak	2500.000	-48.3	≤-21.20	PASS

Note:

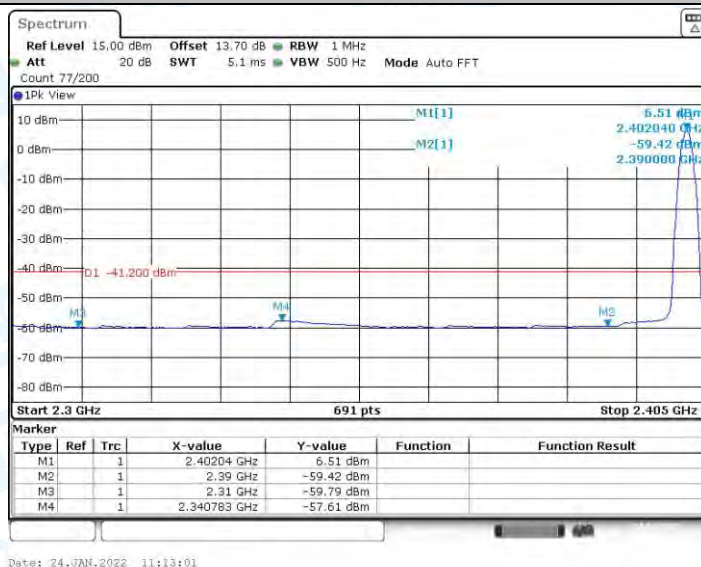
1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

9.2. Test Graphs

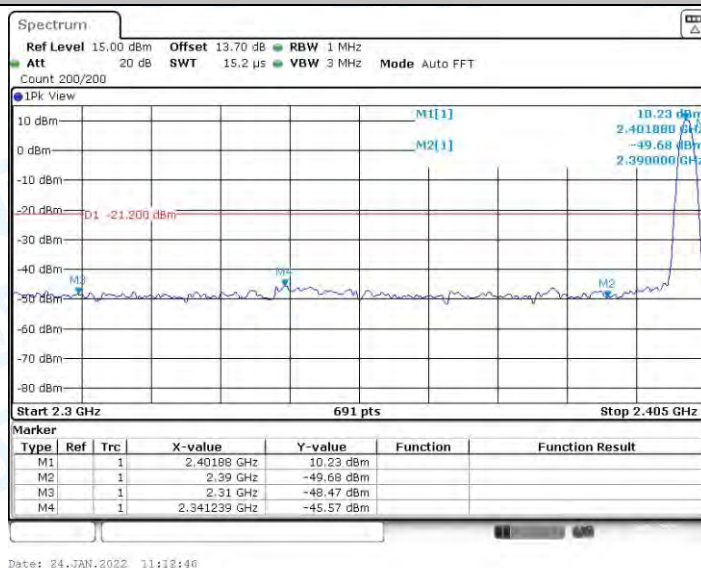




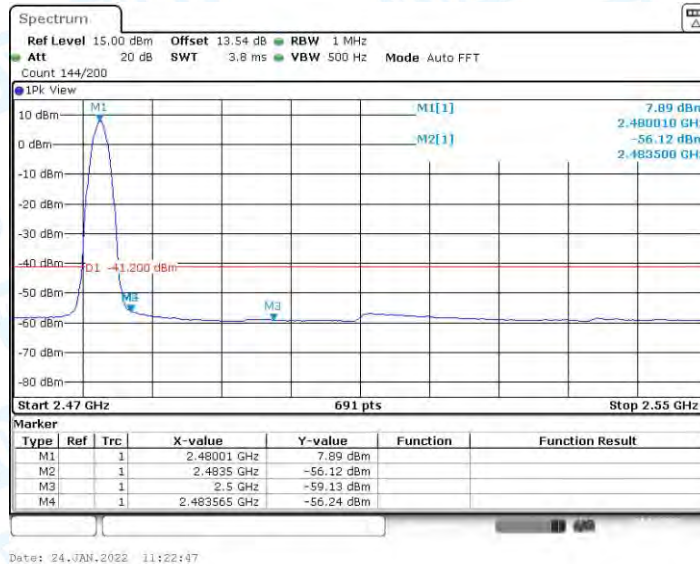
DH5_Ant1_High_2480_Peak



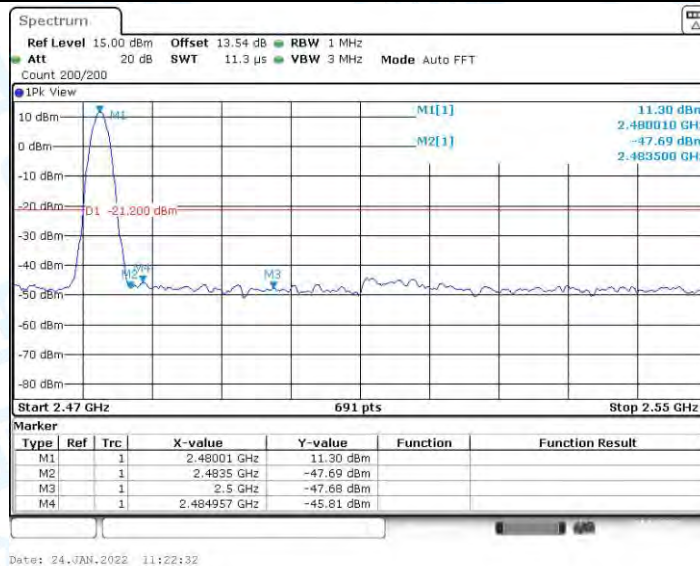
2DH5_Ant1_Low_2402_AV



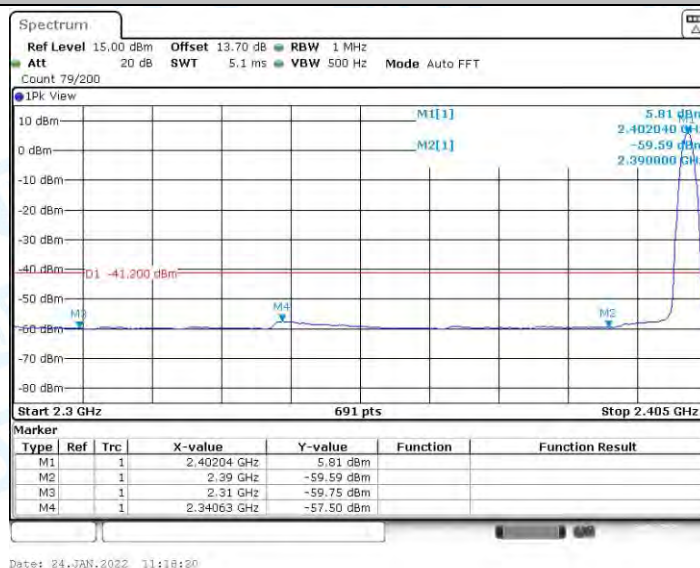
2DH5_Ant1_Low_2402_Peak



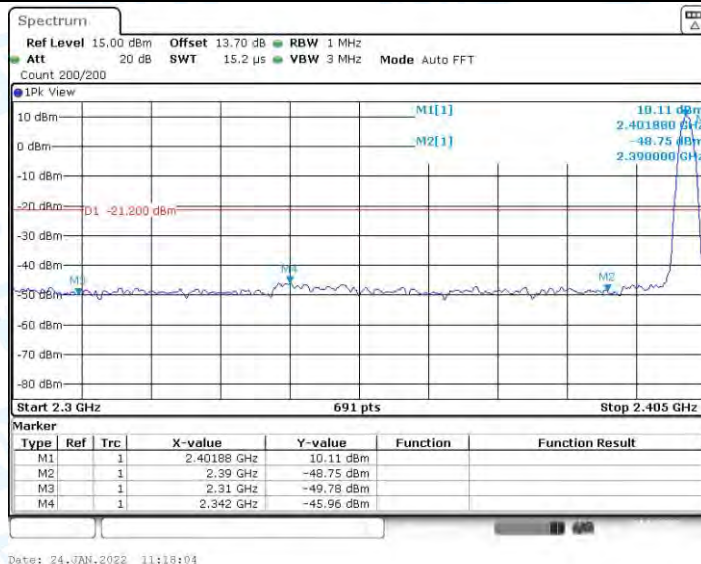
2DH5_Ant1_High_2480_AV



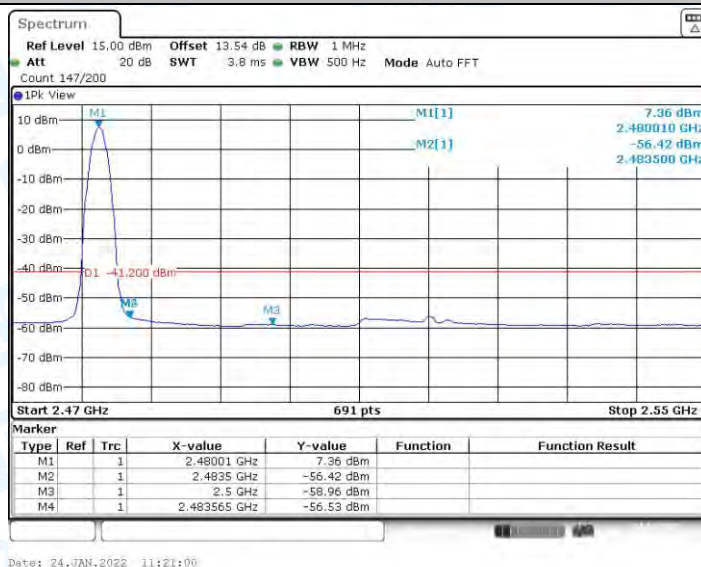
2DH5_Ant1_High_2480_Peak



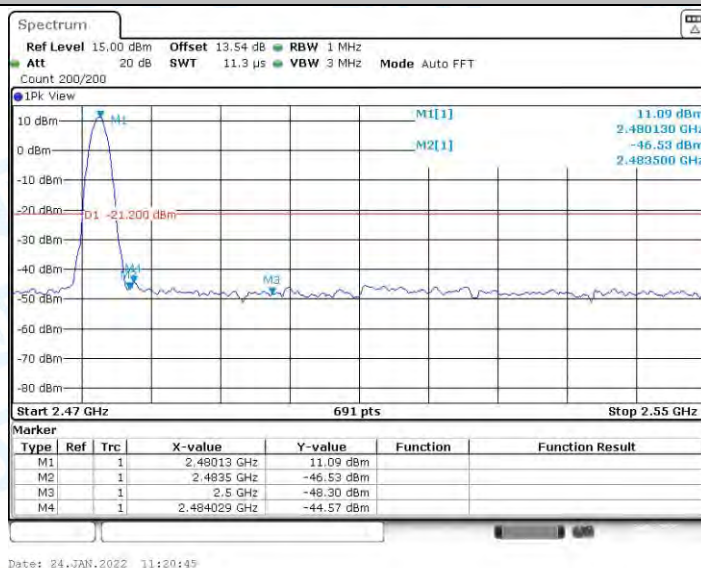
3DH5_Ant1_Low_2402_AV



3DH5_Ant1_Low_2402_Peak



3DH5_Ant1_High_2480_AV



3DH5_Ant1_High_2480_Peak

-----End of the report-----