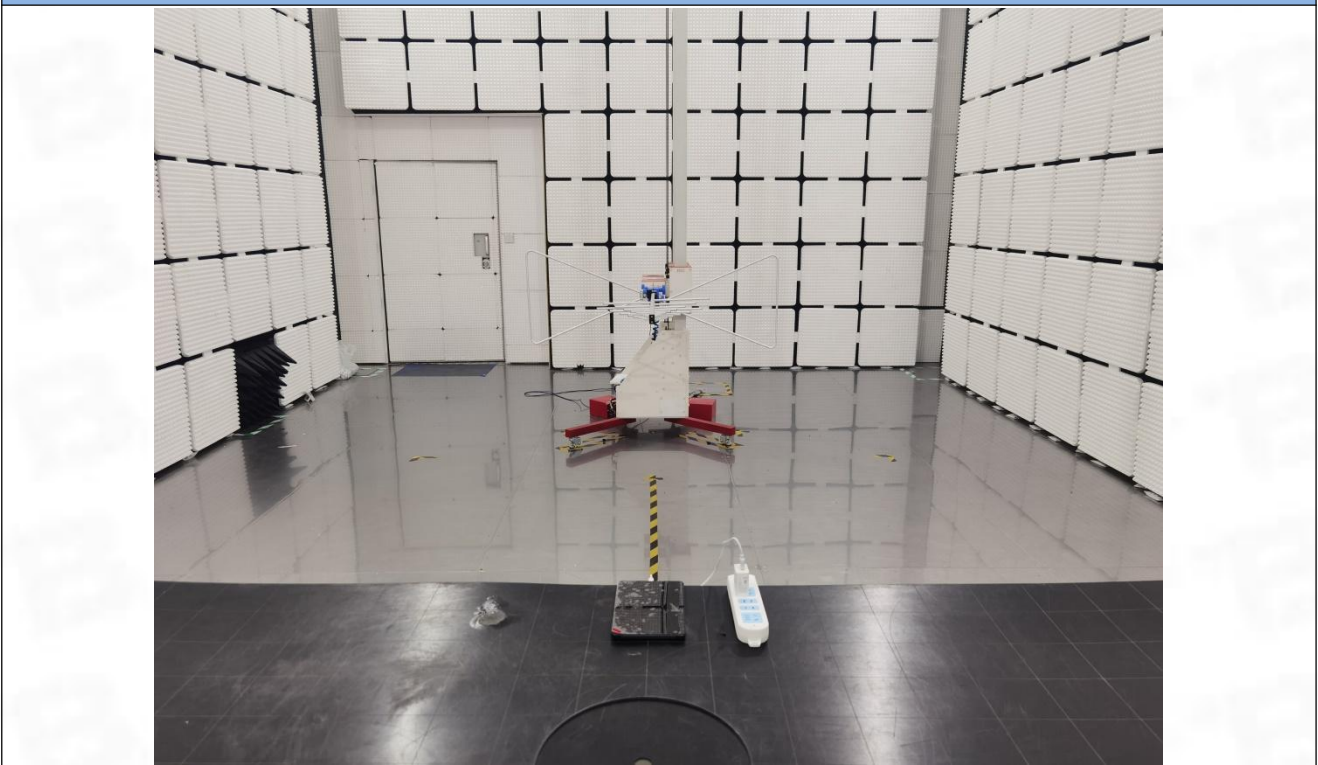


Band edge emissions (Radiated)
Emissions in restricted frequency bands (above 1GHz)



Emissions in restricted frequency bands (below 1GHz)



8 EUT Constructional Details (EUT Photos)

Please refer to the report No.BTF230725R01001

Appendix

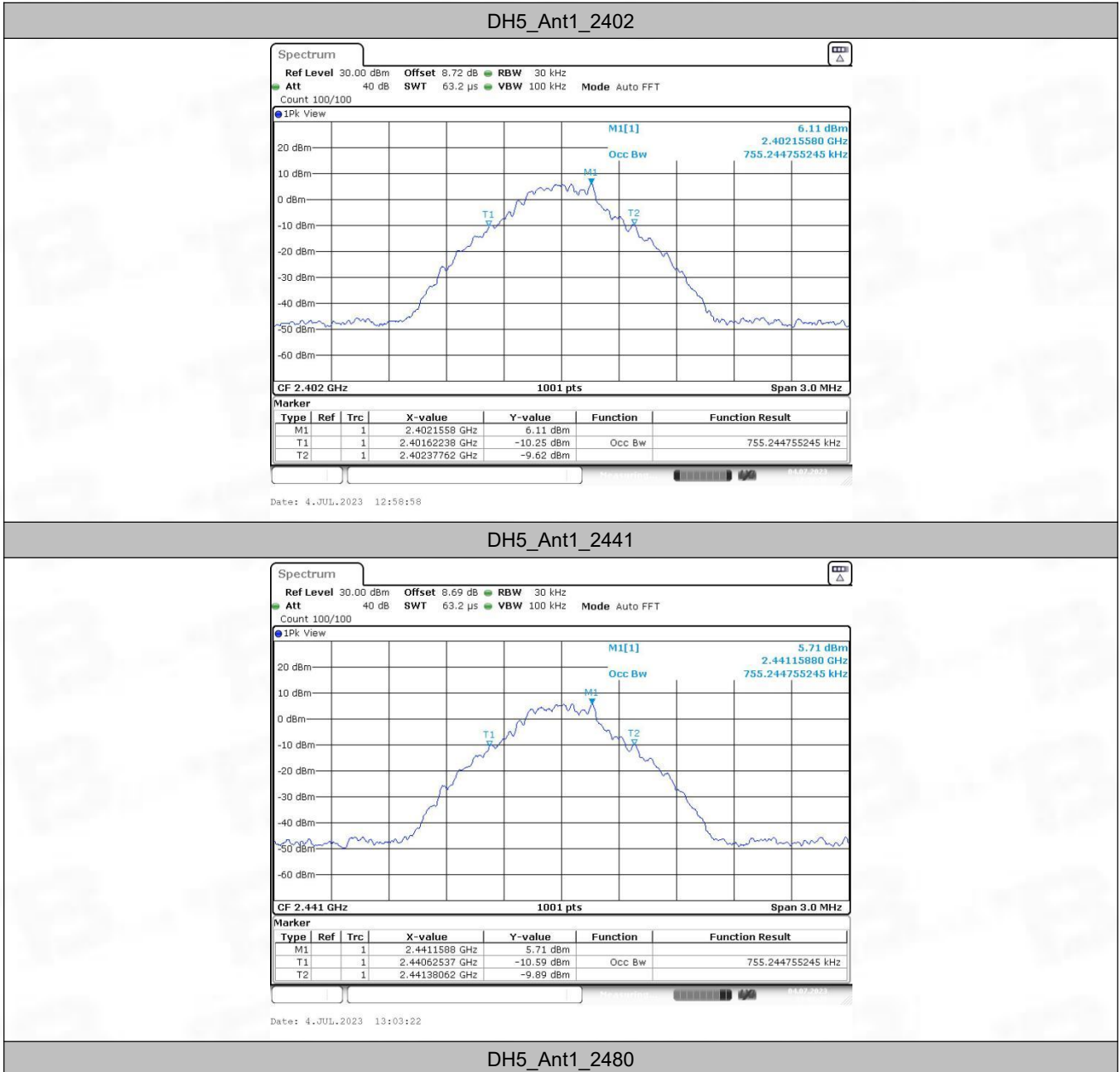
1. Bandwidth

1.1 OBW

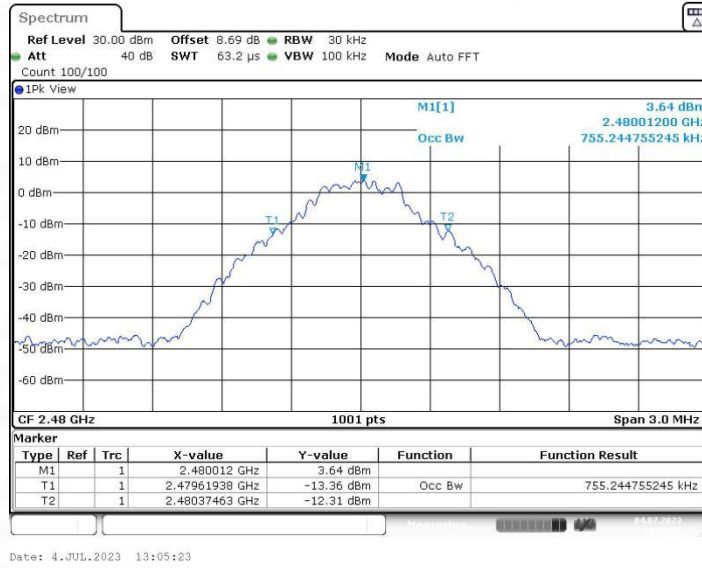
1.1.1 Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.755	2401.6224	2402.3776	---	---
		2441	0.755	2440.6254	2441.3806	---	---
		2480	0.755	2479.6194	2480.3746	---	---
2DH5	Ant1	2402	1.148	2401.4246	2402.5724	---	---
		2441	1.151	2440.4216	2441.5724	---	---
		2480	1.151	2479.4186	2480.5694	---	---
3DH5	Ant1	2402	1.151	2401.4276	2402.5784	---	---
		2441	1.151	2440.4276	2441.5784	---	---
		2480	1.145	2479.4246	2480.5694	---	---

1.1.2 Test Graph



DH5_Ant1_2480



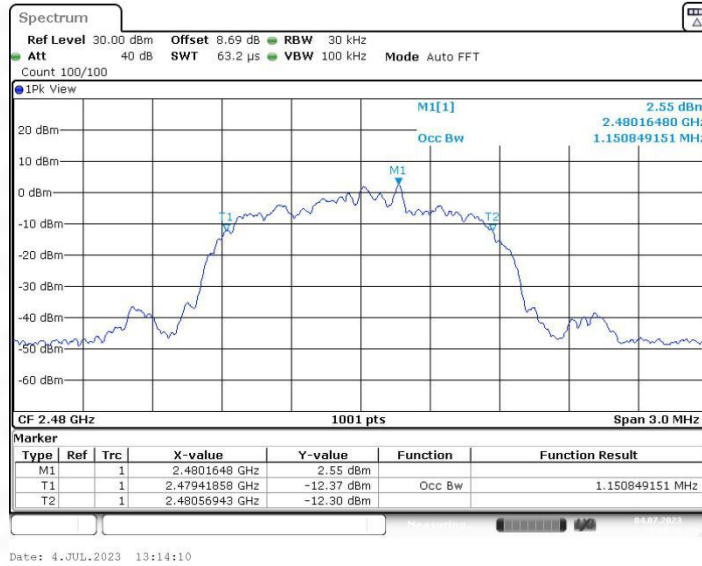
2DH5_Ant1_2402



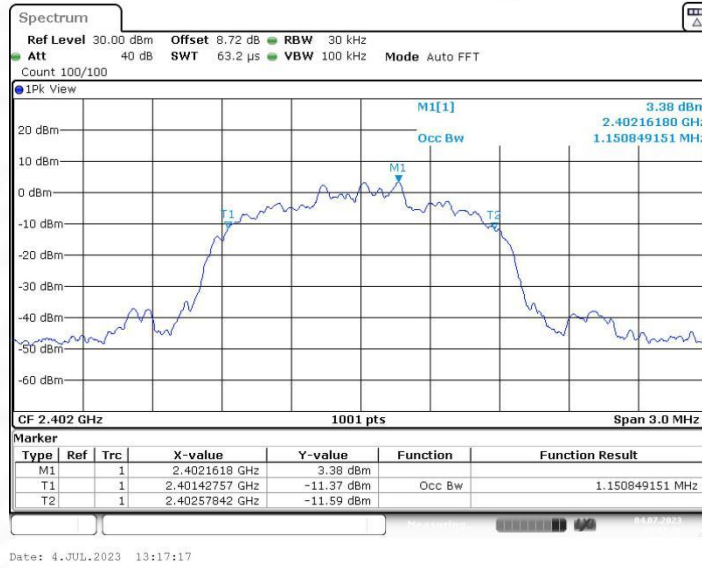
2DH5_Ant1_2441



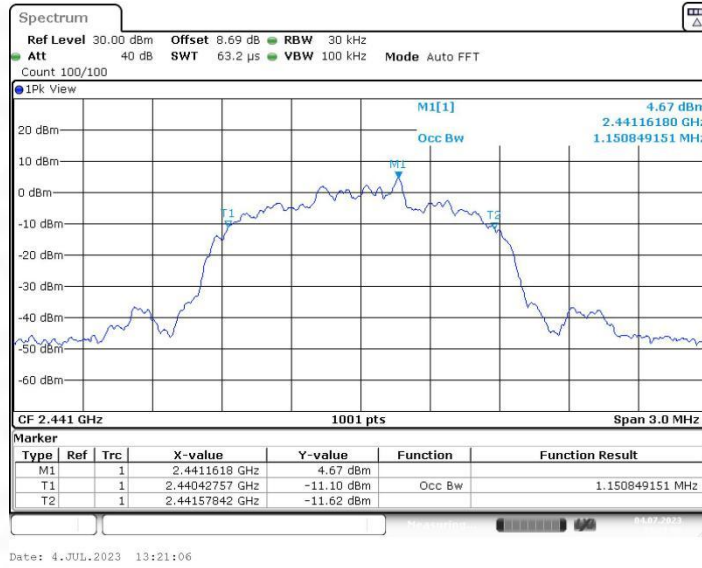
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

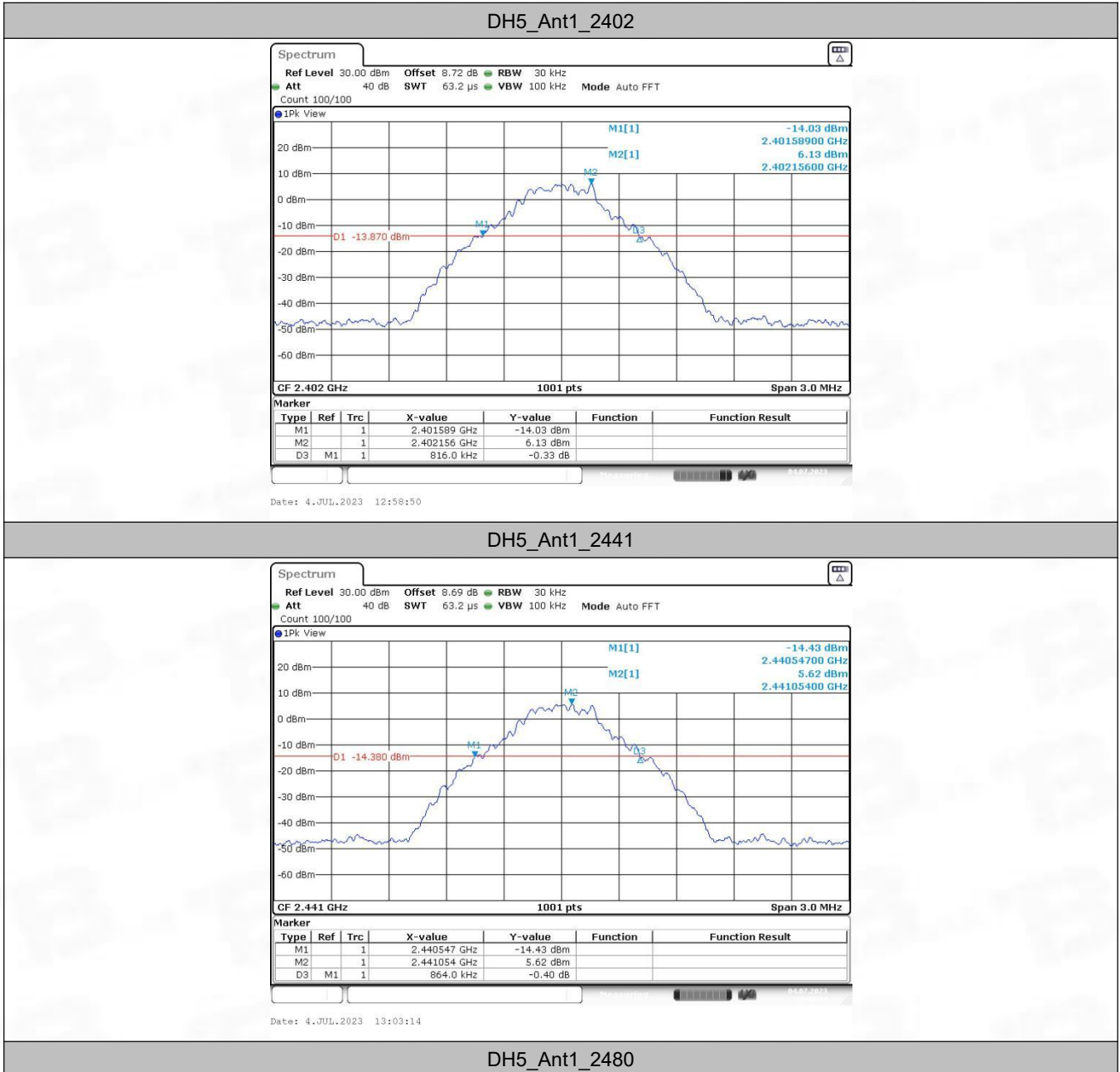


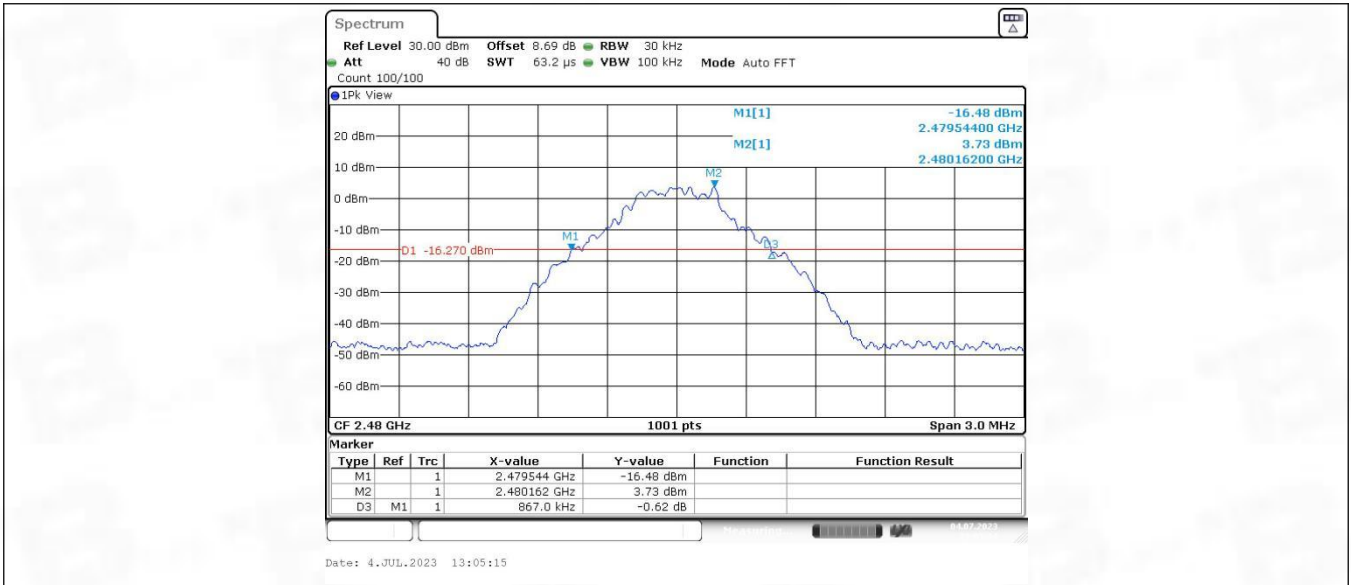
1.2 20dB BW

1.2.1 Test Result

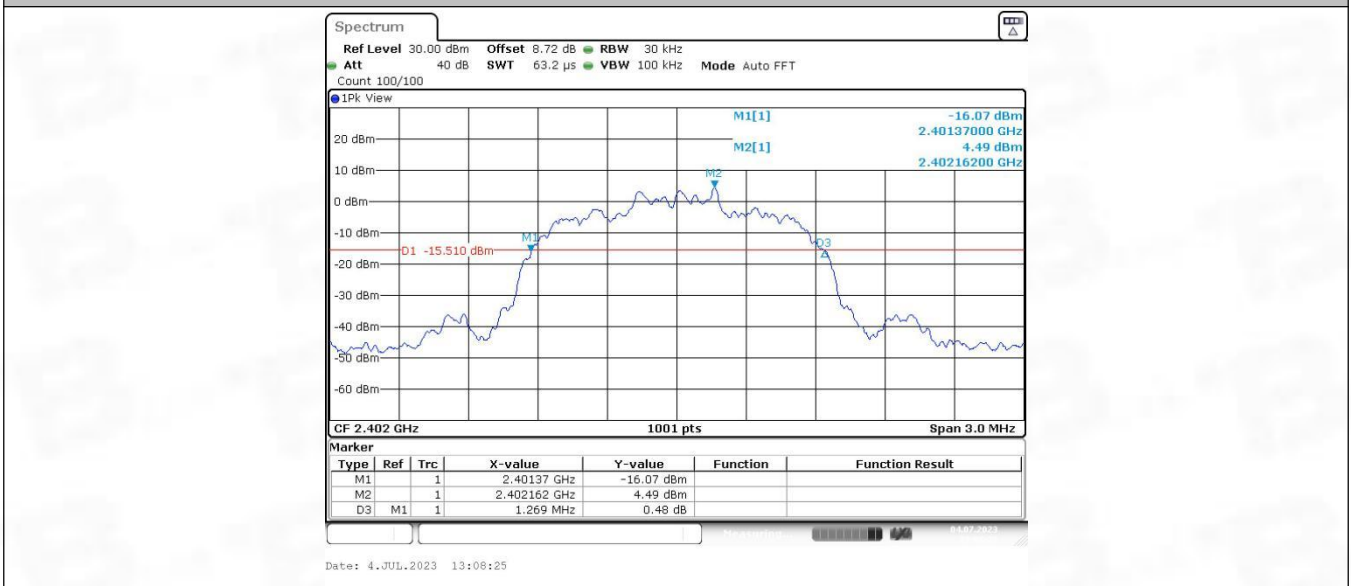
TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.82	2401.59	2402.41	---	---
		2441	0.86	2440.55	2441.41	---	---
		2480	0.87	2479.54	2480.41	---	---
2DH5	Ant1	2402	1.27	2401.37	2402.64	---	---
		2441	1.28	2440.37	2441.65	---	---
		2480	1.26	2479.37	2480.63	---	---
3DH5	Ant1	2402	1.26	2401.36	2402.62	---	---
		2441	1.26	2440.36	2441.62	---	---
		2480	1.28	2479.36	2480.64	---	---

1.2.2 Test Graph

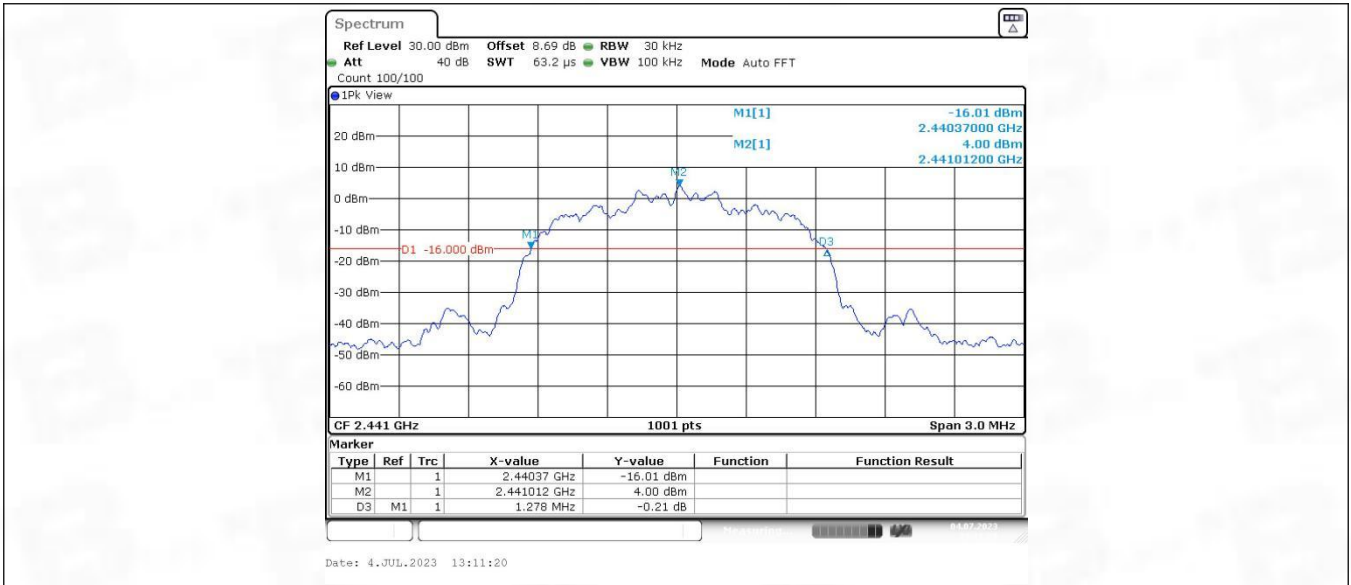




2DH5_Ant1_2402



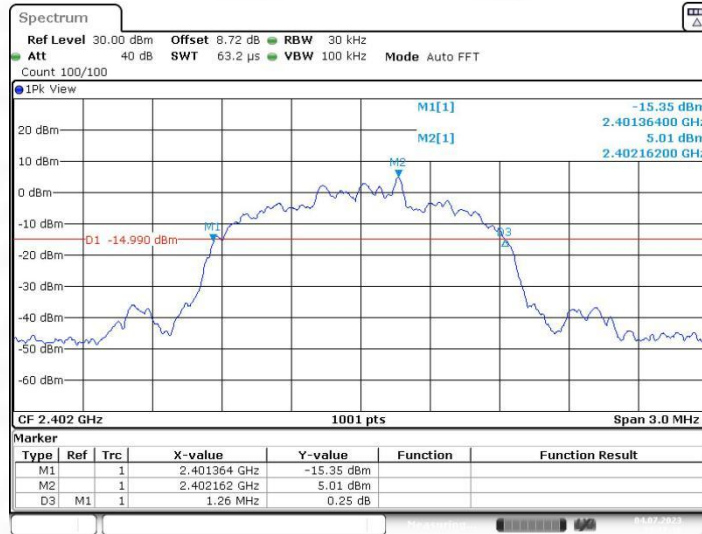
2DH5_Ant1_2441



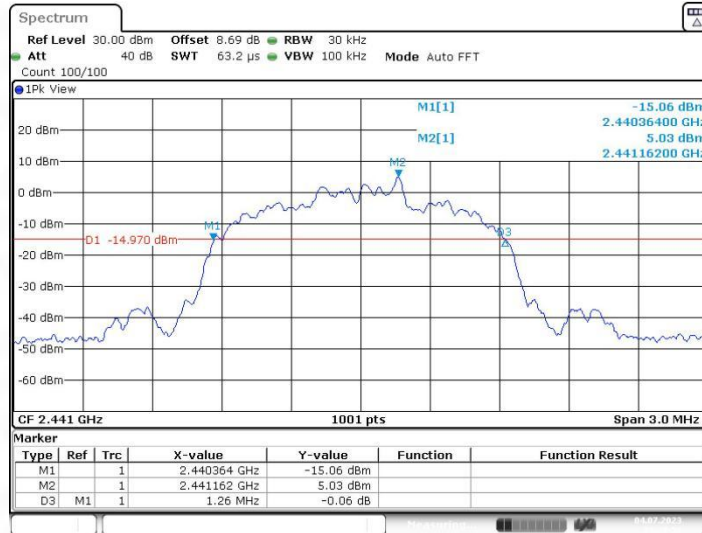
2DH5_Ant1_2480



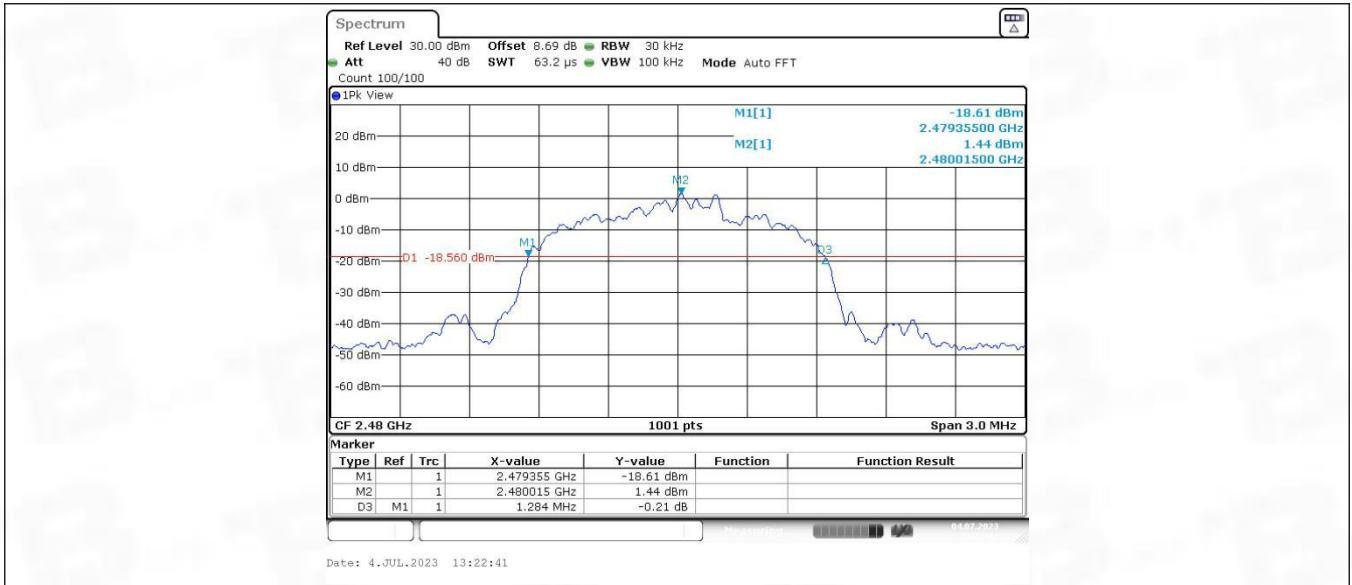
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



2. Maximum Conducted Output Power

2.1 Power

2.1.1 Test Result

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	10.11	≤30	PASS
		2441	10.17	≤30	PASS
		2480	8.77	≤30	PASS
2DH5	Ant1	2402	8.86	≤20.97	PASS
		2441	8.12	≤20.97	PASS
		2480	7.43	≤20.97	PASS
3DH5	Ant1	2402	9.06	≤20.97	PASS
		2441	8.29	≤20.97	PASS
		2480	7.7	≤20.97	PASS

3. Carrier Frequency Separation

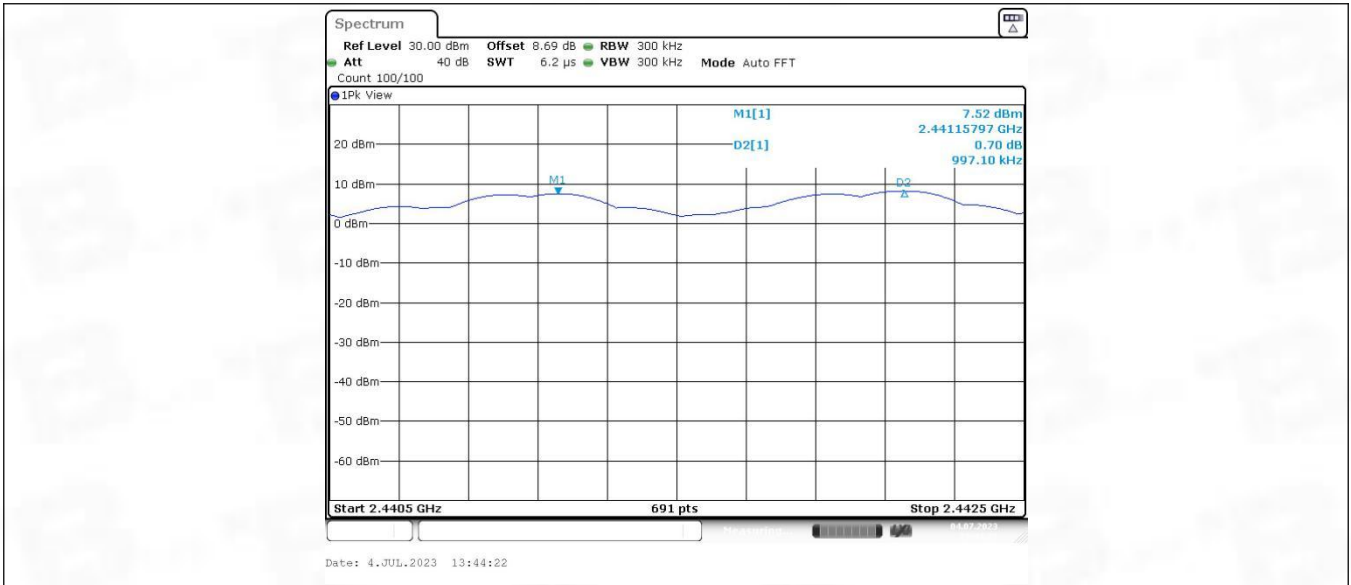
3.1 Ant1

3.1.1 Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.965	≥ 0.870	PASS
2DH5	Ant1	Hop	0.913	≥ 0.853	PASS
3DH5	Ant1	Hop	0.997	≥ 0.853	PASS

3.1.2 Test Graph





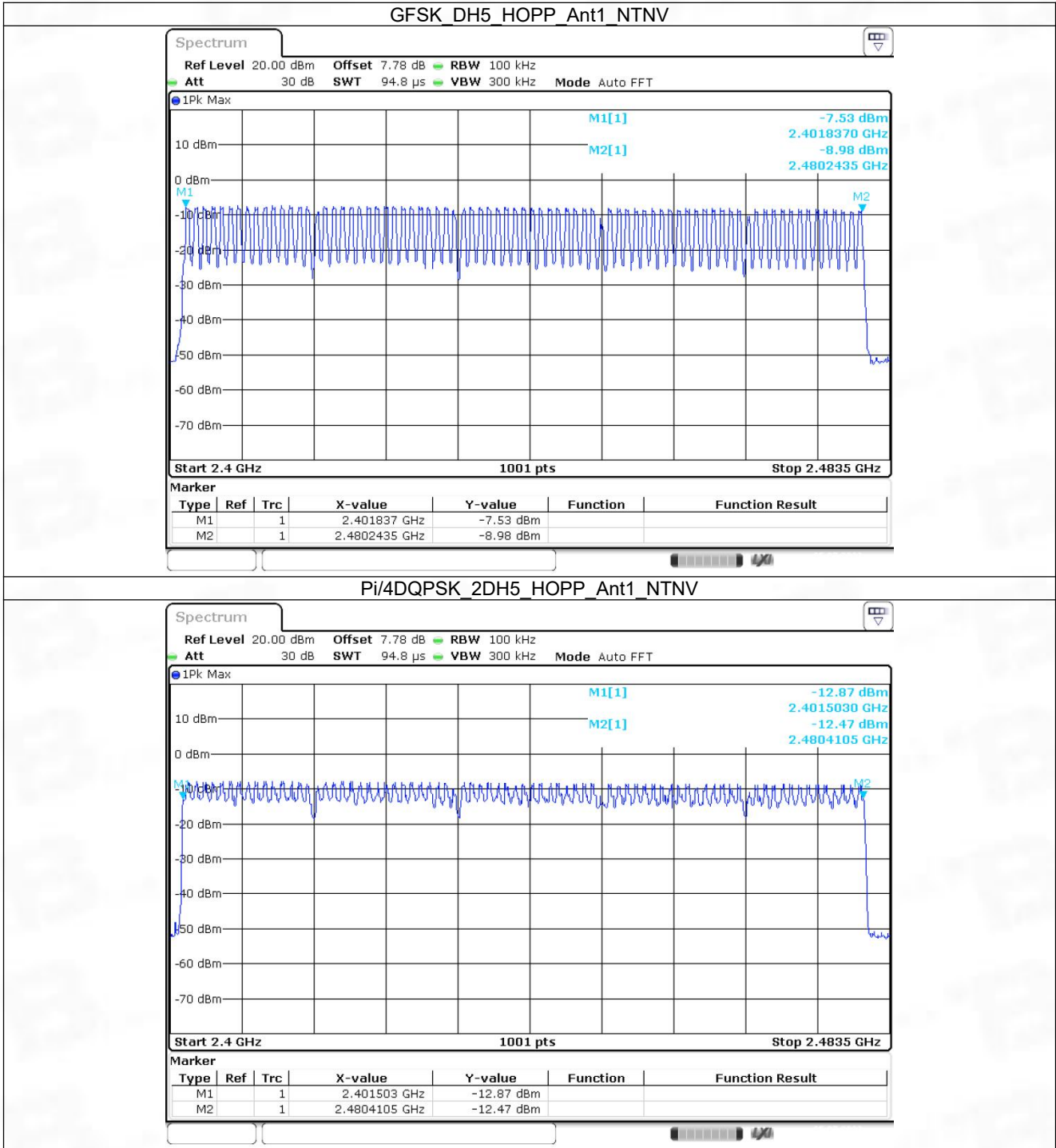
4. Number of Hopping Frequencies

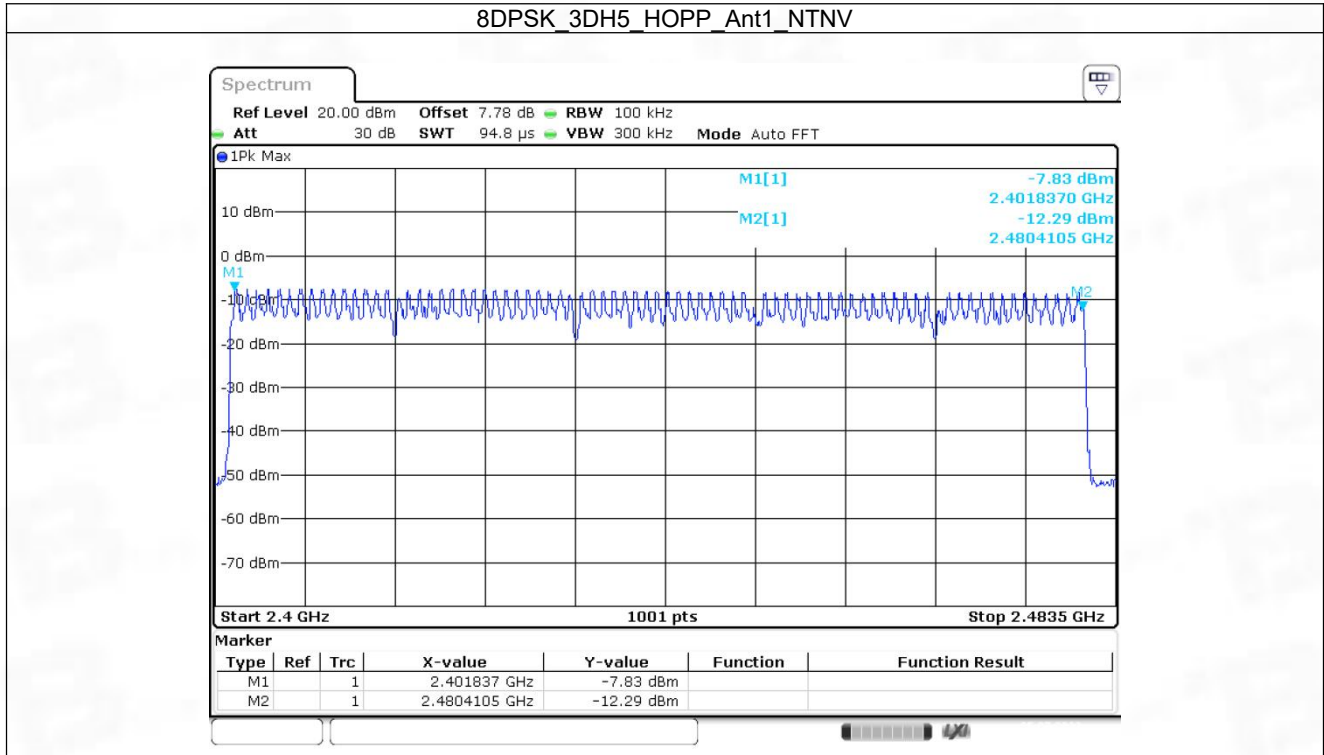
4.1 HoppNum

4.1.1 Test Result

Mode	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
			ANT1	Limit	
GFSK	HOPP	DH5	79	>=15	Pass
Pi/4DQPSK	HOPP	2DH5	79	>=15	Pass
8DPSK	HOPP	3DH5	79	>=15	Pass

4.1.2 Test Graph





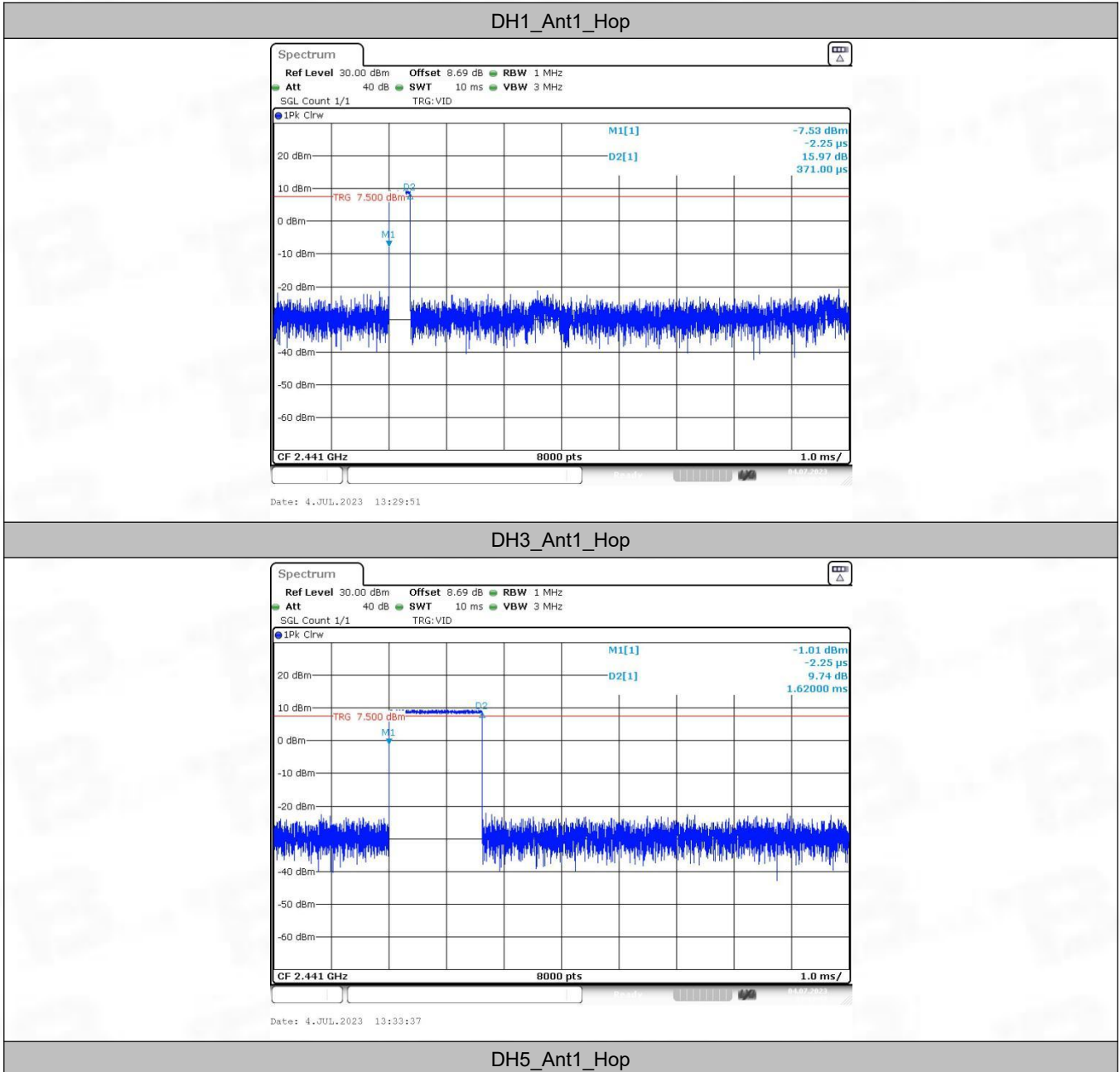
5. Time of Occupancy (Dwell Time)

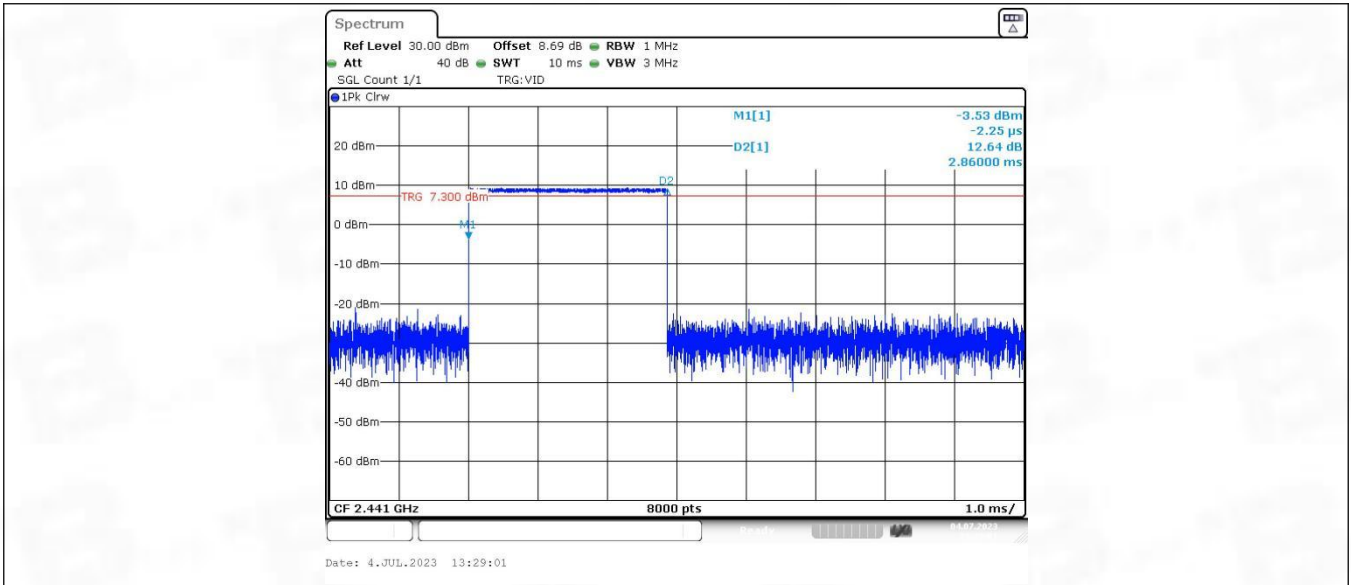
5.1 Ant1

5.1.1 Test Result

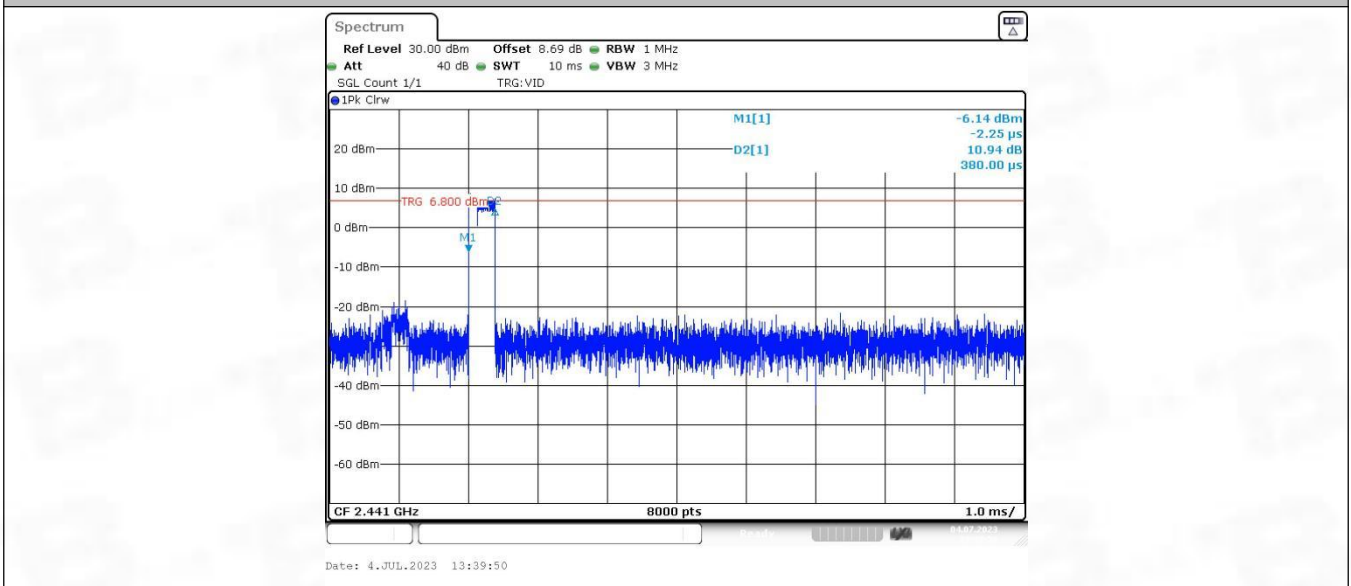
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.371	320	0.119	≤0.4	PASS
DH3	Ant1	Hop	1.620	160	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.860	106.67	0.305	≤0.4	PASS
2DH1	Ant1	Hop	0.380	320	0.122	≤0.4	PASS
2DH3	Ant1	Hop	1.624	160	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.864	106.67	0.306	≤0.4	PASS
3DH1	Ant1	Hop	0.379	320	0.121	≤0.4	PASS
3DH3	Ant1	Hop	1.623	160	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.865	106.67	0.306	≤0.4	PASS

5.1.2 Test Graph

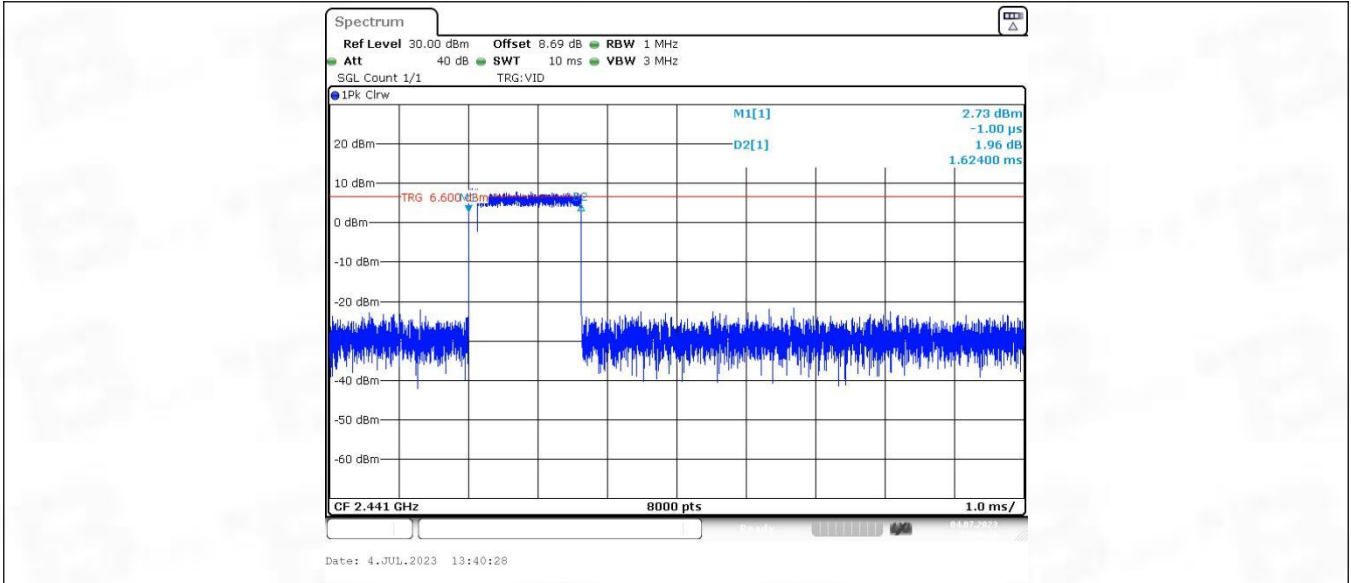




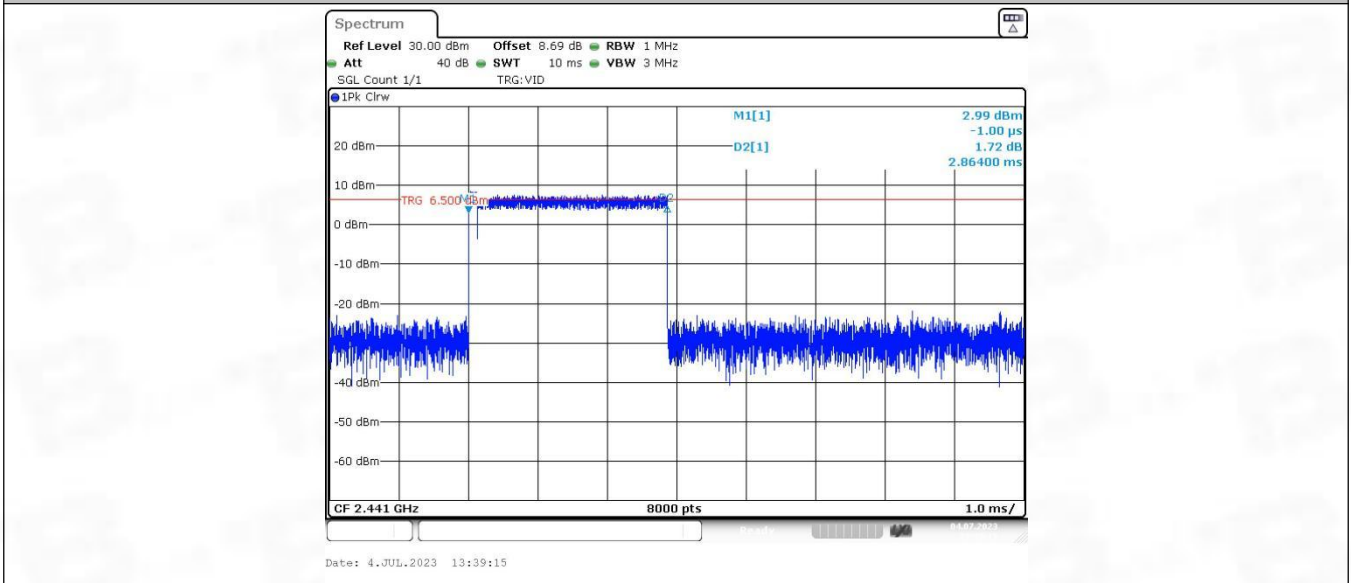
2DH1_Ant1_Hop



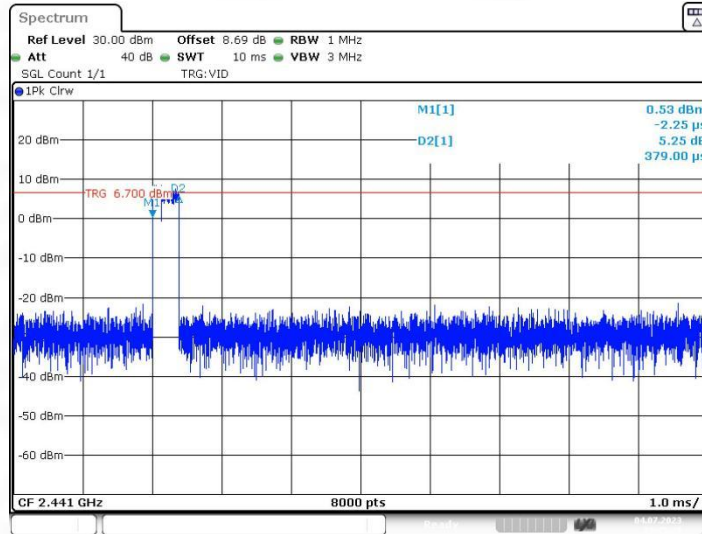
2DH3_Ant1_Hop



2DH5_Ant1_Hop

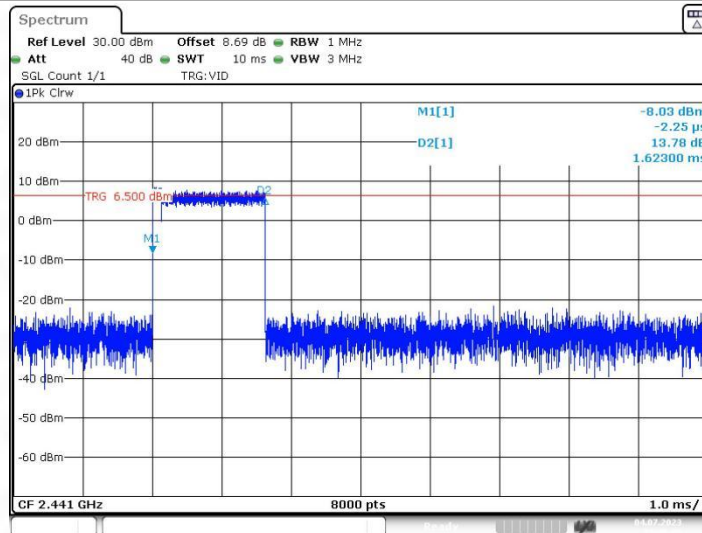


3DH1_Ant1_Hop



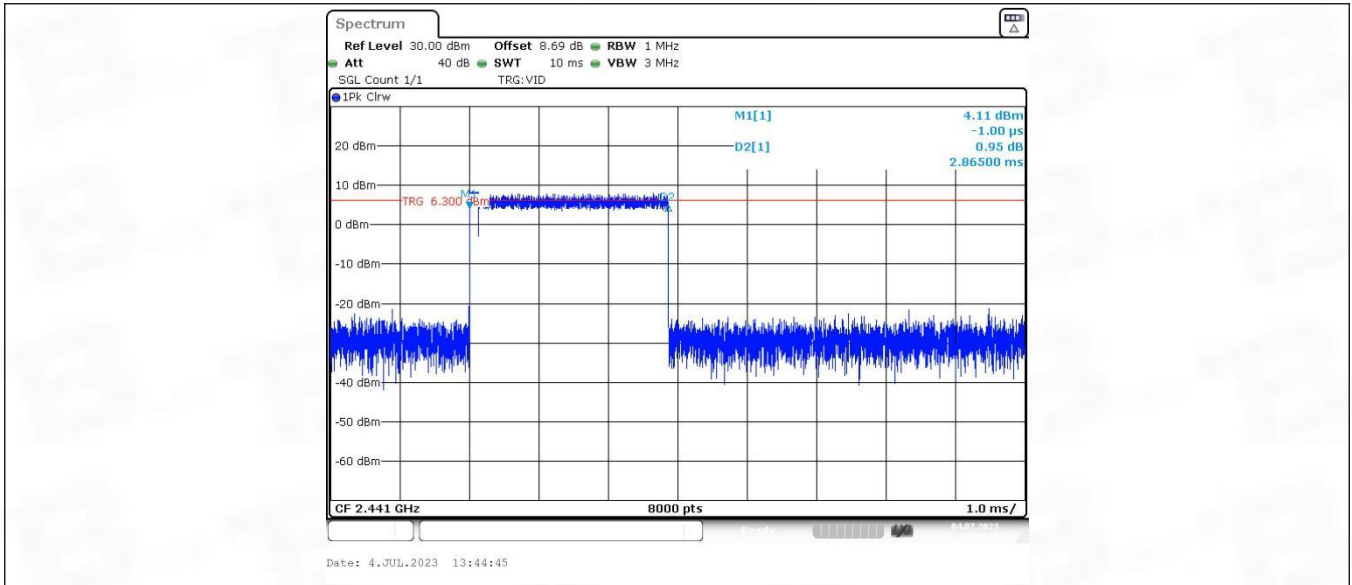
Date: 4.JUL.2023 13:45:20

3DH3_Ant1_Hop



Date: 4.JUL.2023 13:46:06

3DH5_Ant1_Hop



6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Ref

6.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	10.38
		2441	DH5	1	10.71
		2480	DH5	1	10.60
Pi/4DQPSK	SISO	2402	2DH5	1	8.34
		2441	2DH5	1	8.95
		2480	2DH5	1	8.59
8DPSK	SISO	2402	3DH5	1	7.85
		2441	3DH5	1	8.28
		2480	3DH5	1	8.87

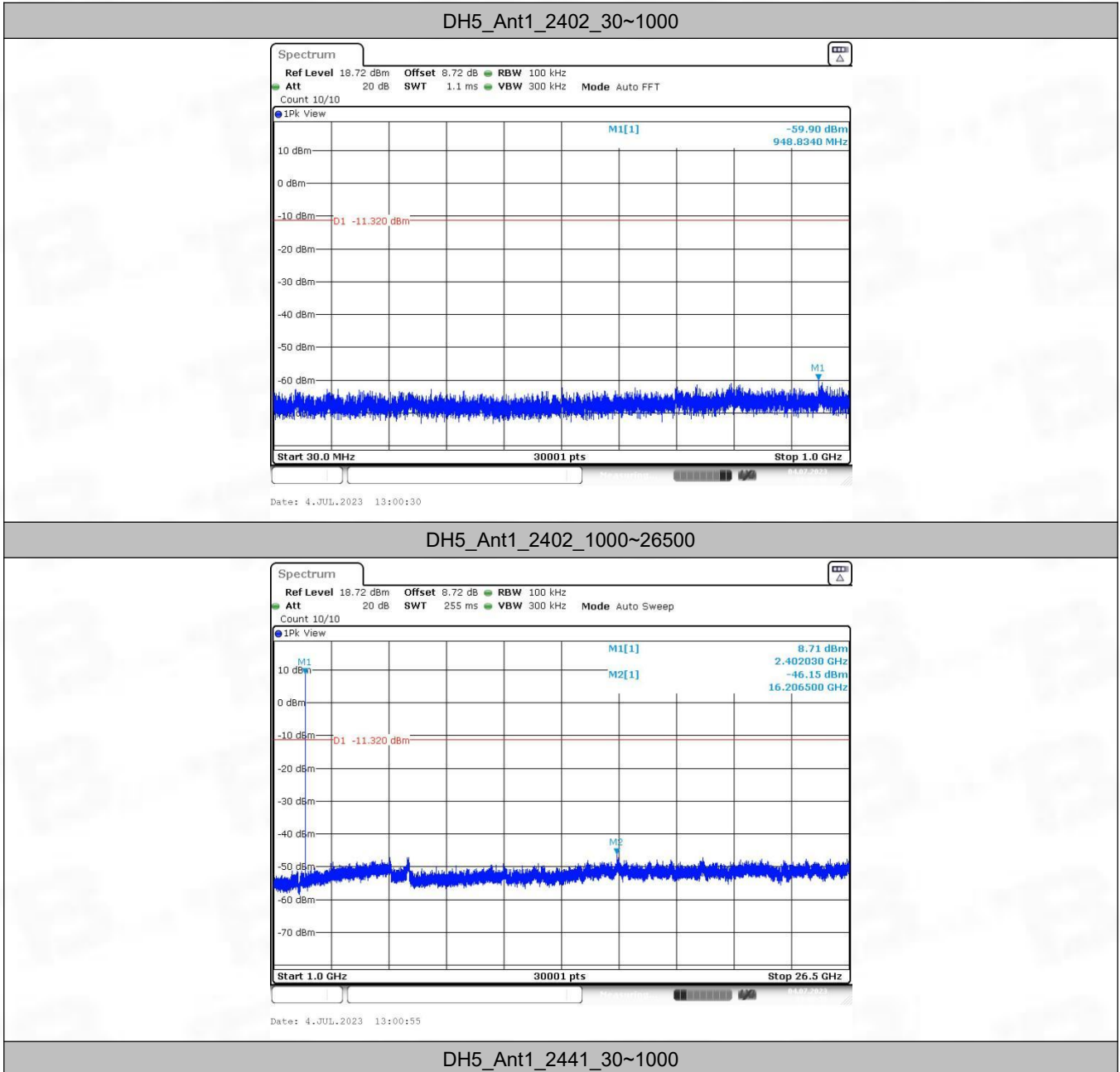
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

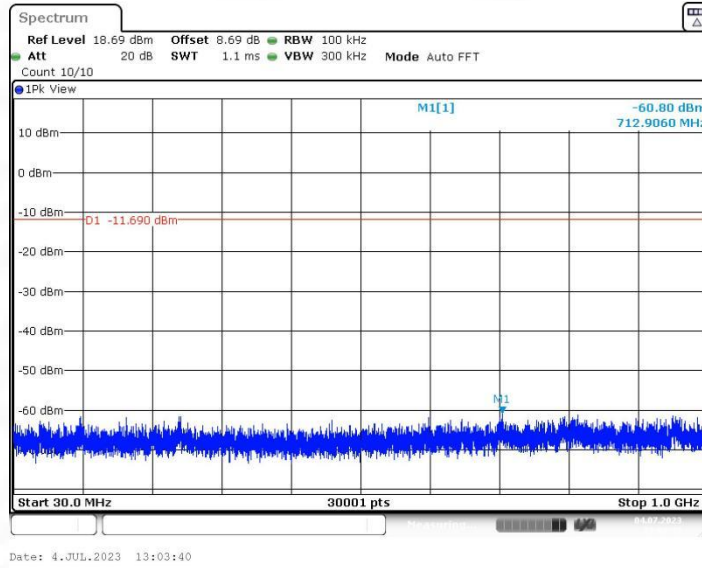
6.2 CSE

6.2.1 Test Result

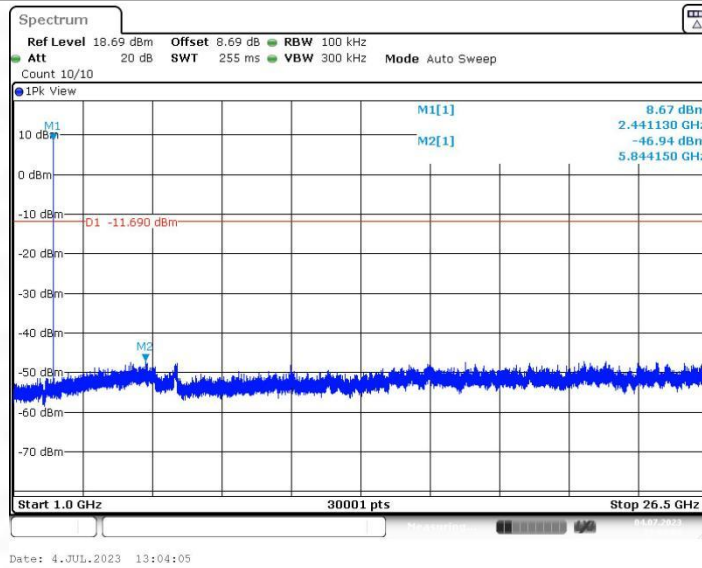
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	30~1000	8.68	-59.9	≤-11.32	PASS
			1000~26500	8.68	-46.15	≤-11.32	PASS
		2441	30~1000	8.31	-60.8	≤-11.69	PASS
			1000~26500	8.31	-46.94	≤-11.69	PASS
		2480	30~1000	6.70	-60.09	≤-13.3	PASS
			1000~26500	6.70	-44.78	≤-13.3	PASS
2DH5	Ant1	2402	30~1000	8.17	-59.98	≤-11.83	PASS
			1000~26500	8.17	-46.19	≤-11.83	PASS
		2441	30~1000	7.51	-60.8	≤-12.49	PASS
			1000~26500	7.51	-46.37	≤-12.49	PASS
		2480	30~1000	5.92	-58.44	≤-14.08	PASS
			1000~26500	5.92	-47.16	≤-14.08	PASS
3DH5	Ant1	2402	30~1000	7.55	-60.2	≤-12.45	PASS
			1000~26500	7.55	-46.86	≤-12.45	PASS
		2441	30~1000	7.36	-59.41	≤-12.64	PASS
			1000~26500	7.36	-46.8	≤-12.64	PASS
		2480	30~1000	5.51	-59.24	≤-14.49	PASS
			1000~26500	5.51	-46.52	≤-14.49	PASS

6.2.2 Test Graph

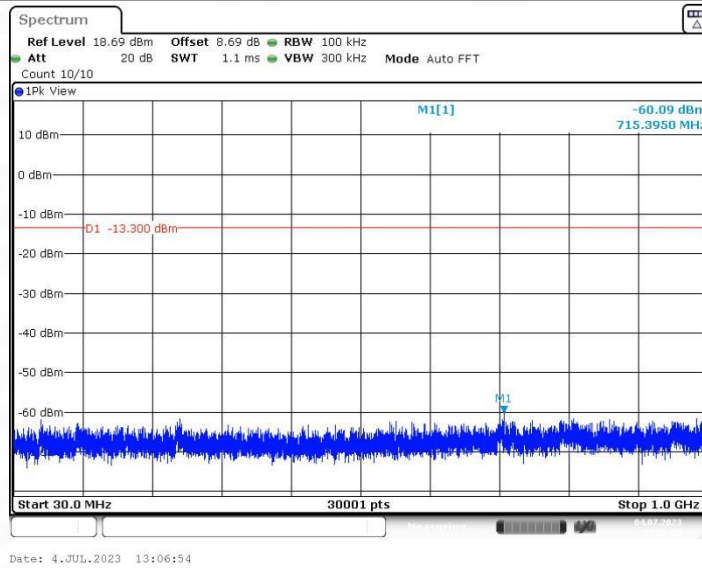




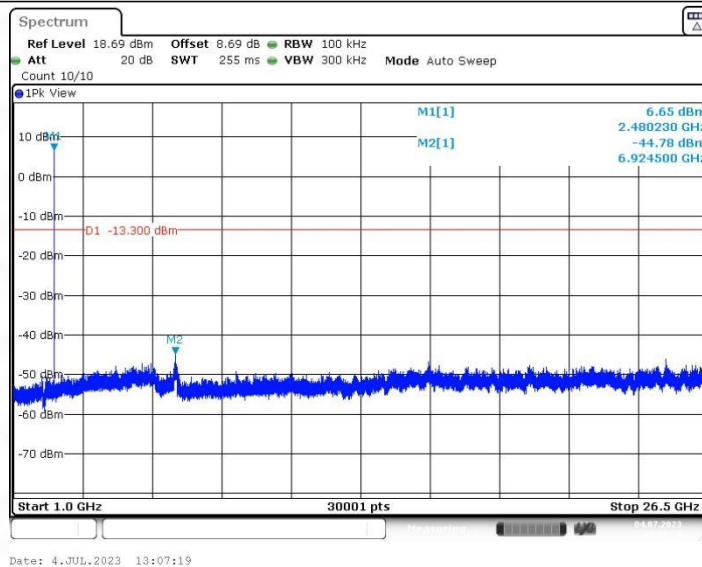
DH5_Ant1_2441_1000~26500



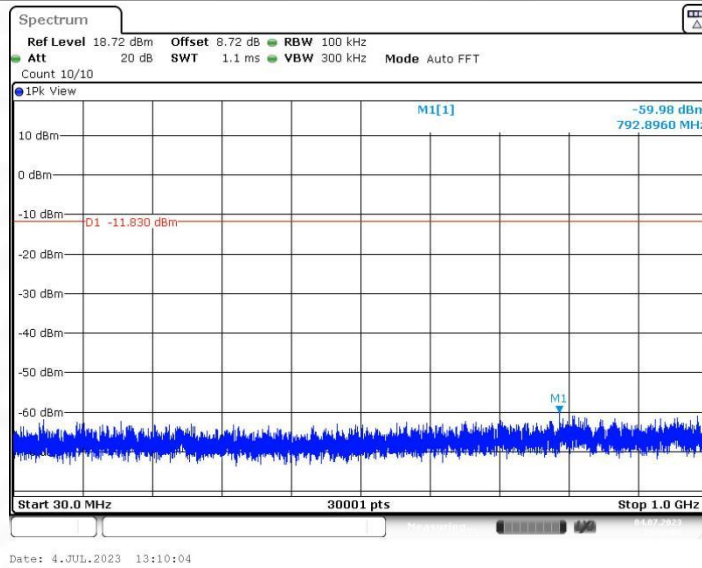
DH5_Ant1_2480_30~1000



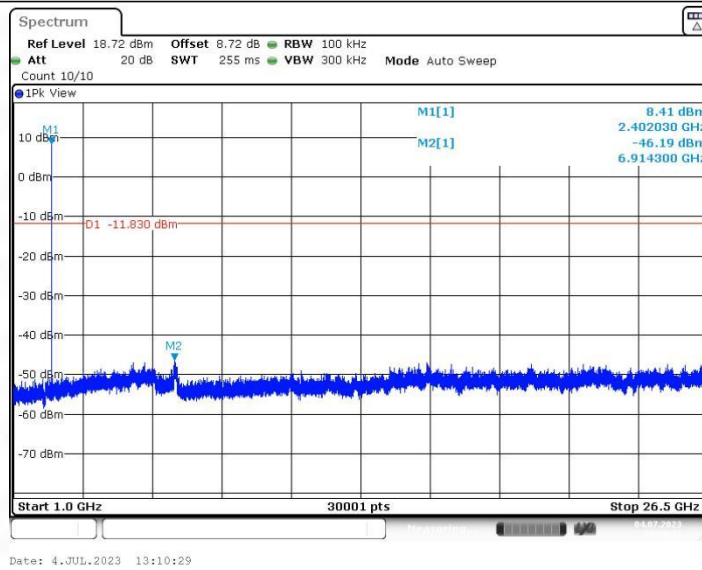
DH5_Ant1_2480_1000~26500



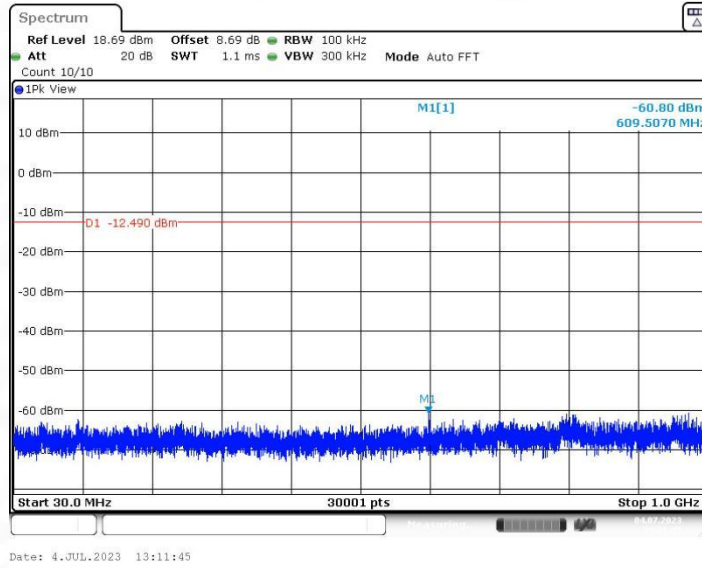
2DH5_Ant1_2402_30~1000



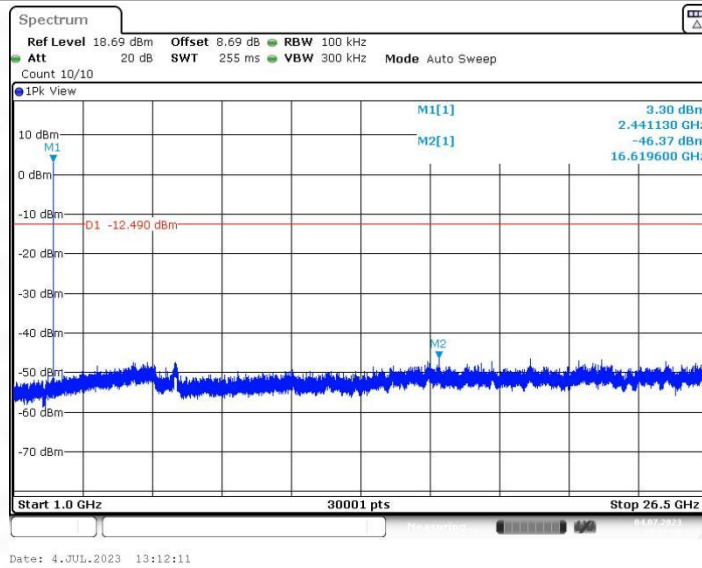
2DH5_Ant1_2402_1000~26500



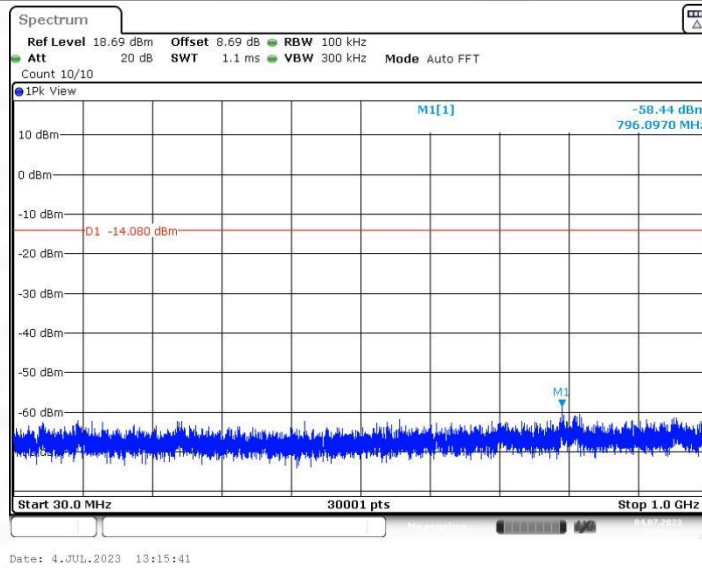
2DH5_Ant1_2441_30~1000



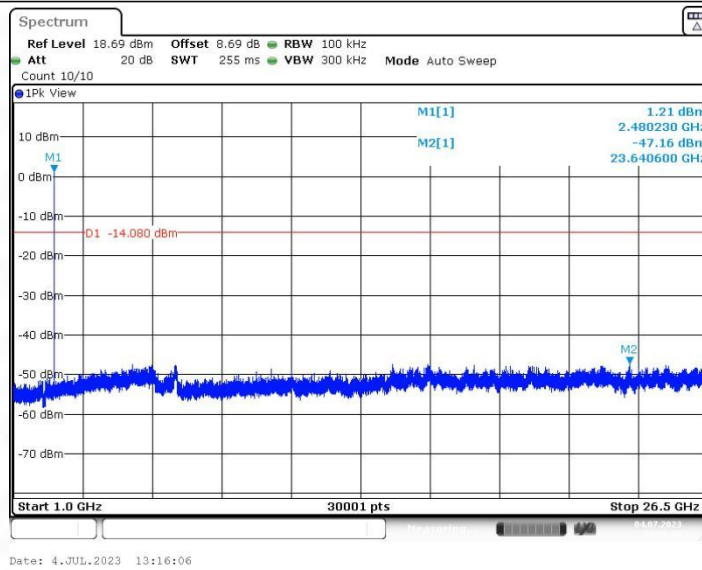
2DH5_Ant1_2441_1000~26500



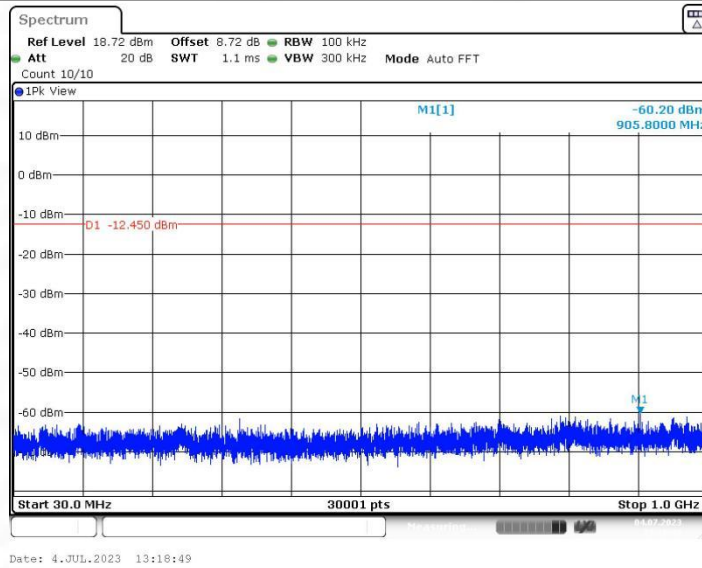
2DH5_Ant1_2480_30~1000



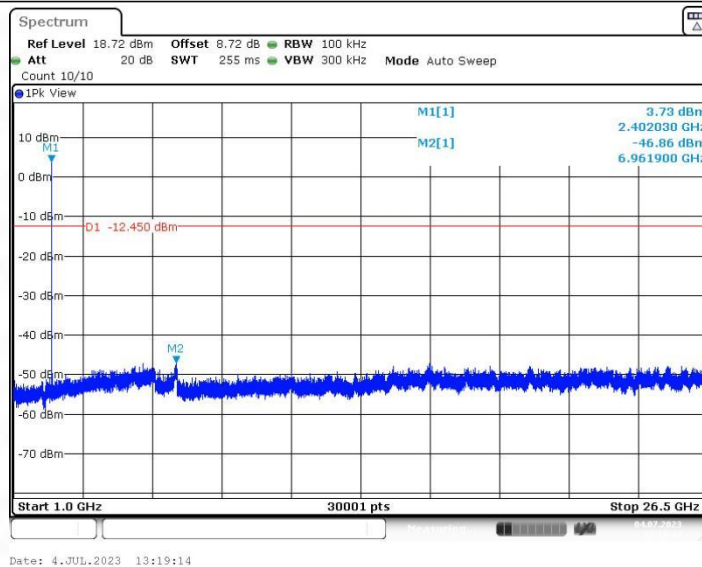
2DH5_Ant1_2480_1000~26500



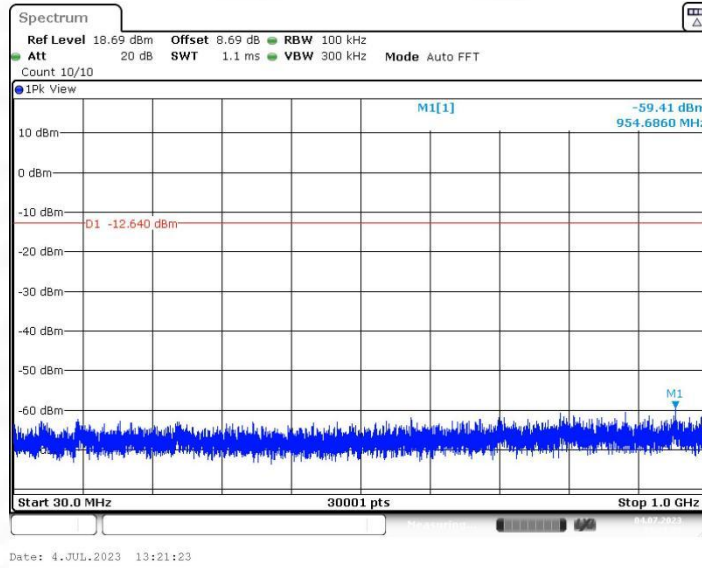
3DH5_Ant1_2402_30~1000



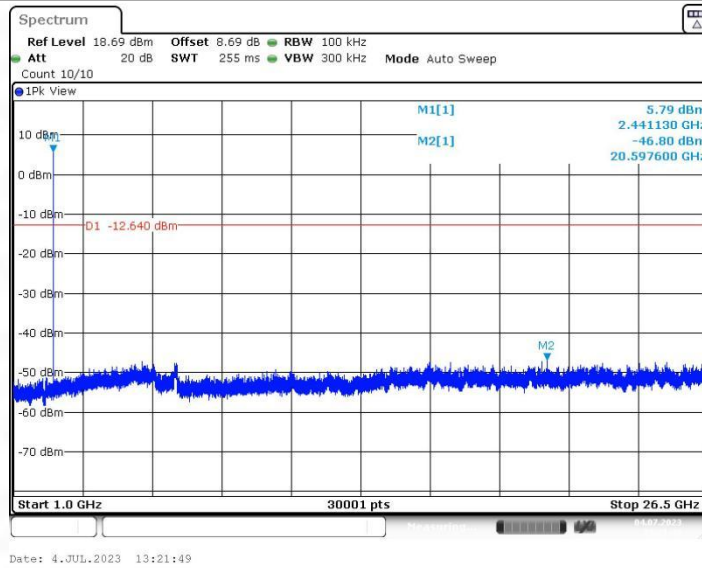
3DH5_Ant1_2402_1000~26500



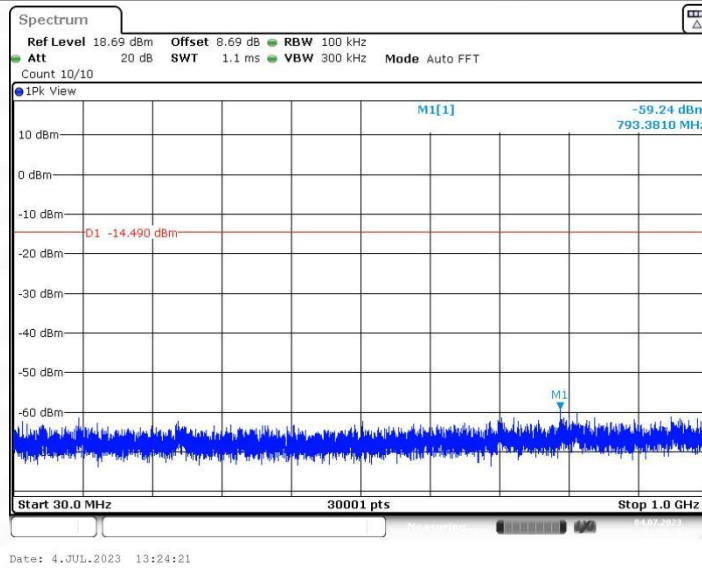
3DH5_Ant1_2441_30~1000



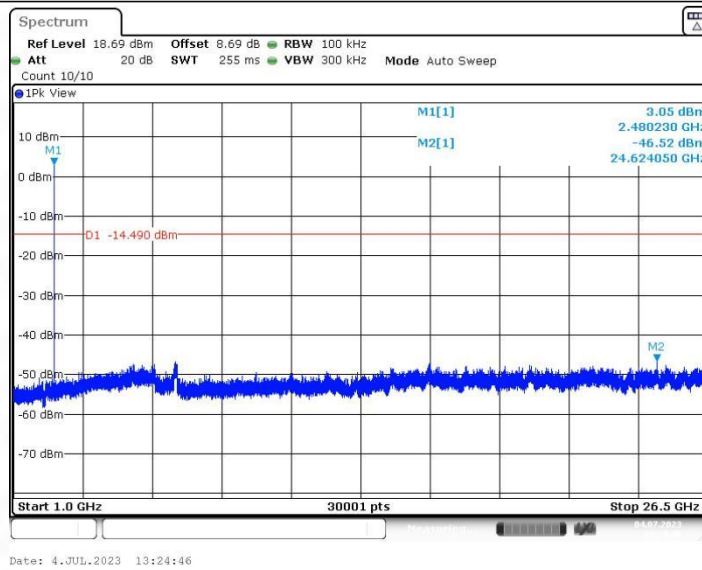
3DH5_Ant1_2441_1000~26500



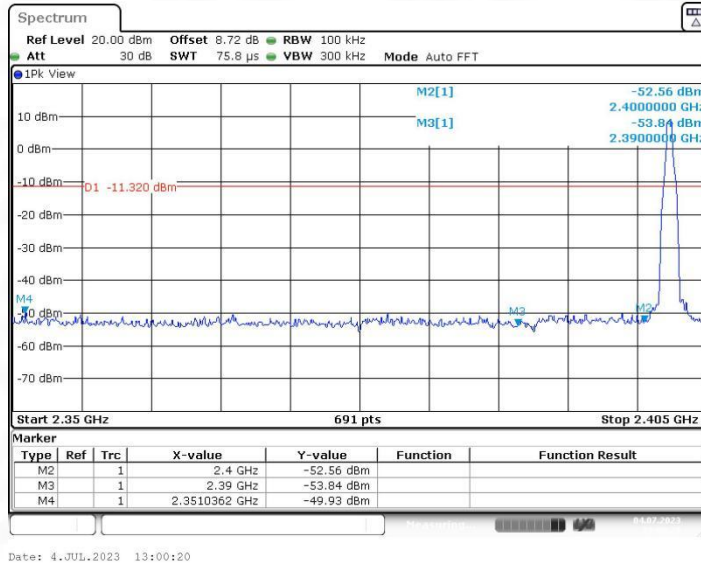
3DH5_Ant1_2480_30~1000



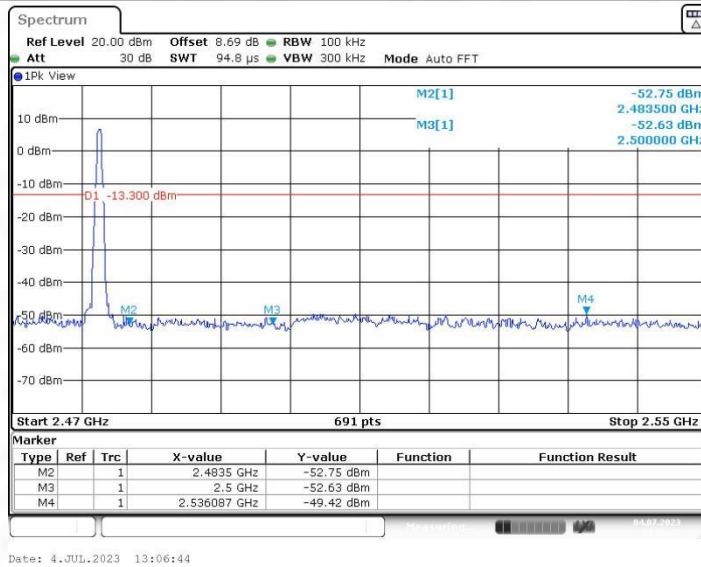
3DH5_Ant1_2480_1000~26500



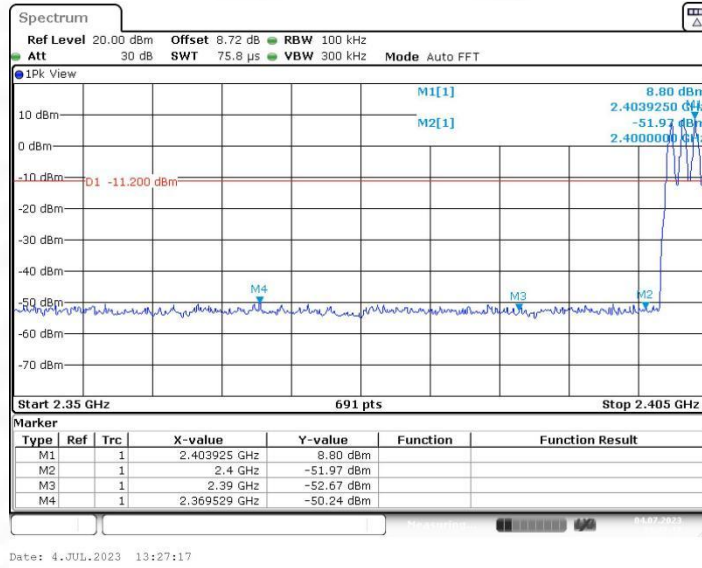
DH5_Ant1_Low_2402



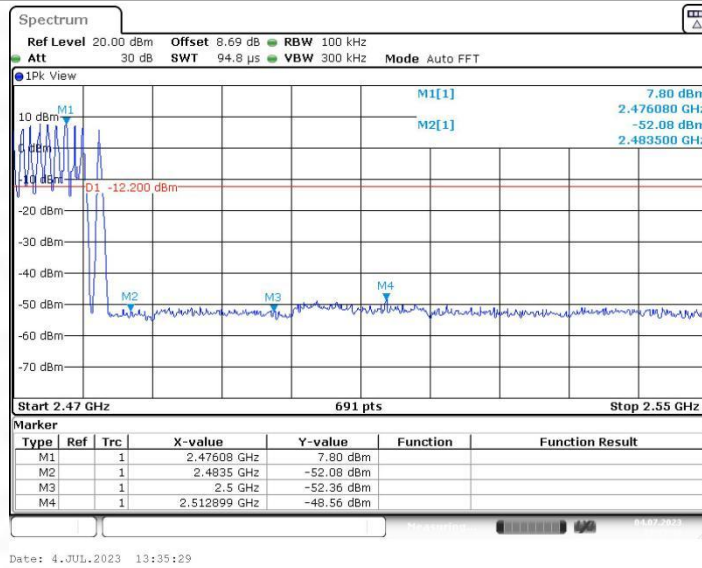
DH5_Ant1_High_2480



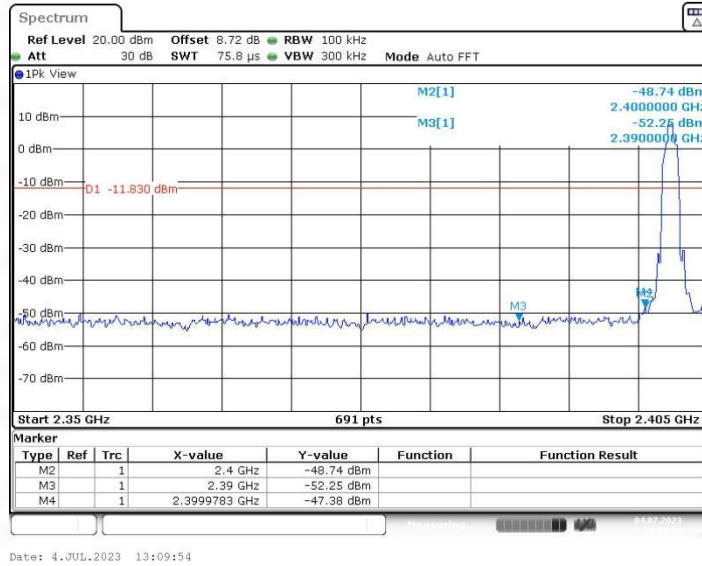
DH5_Ant1_Low_Hop_2402



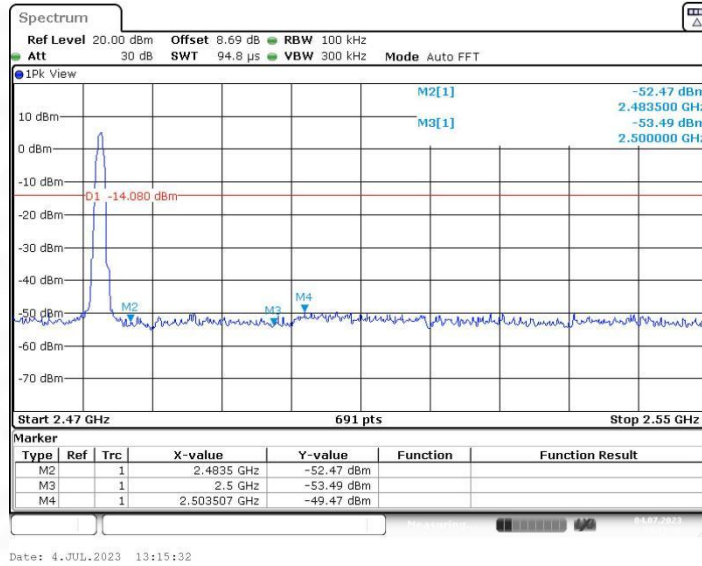
DH5_Ant1_High_Hop_2480



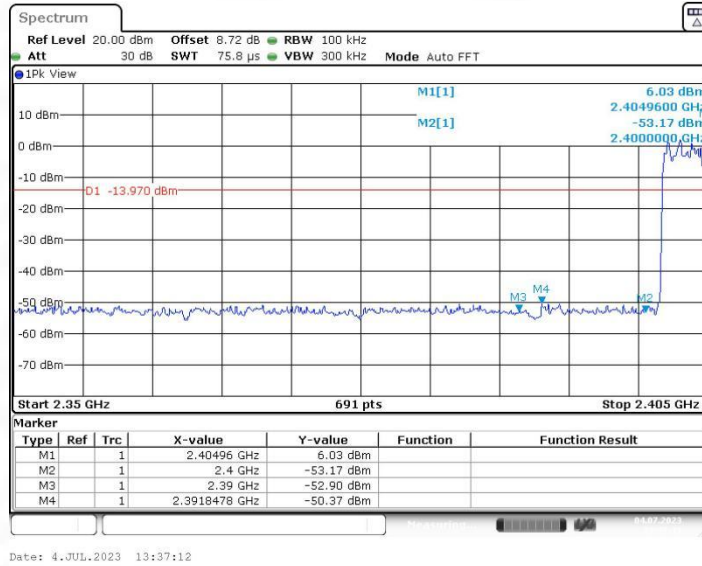
2DH5_Ant1_Low_2402



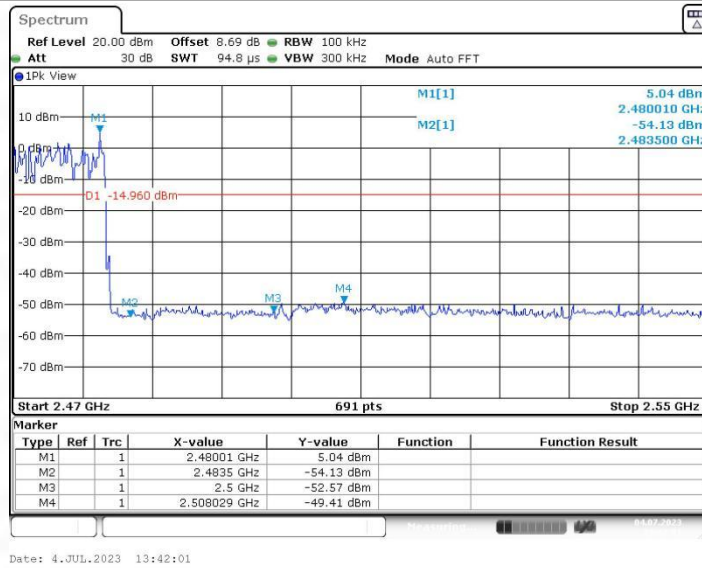
2DH5_Ant1_High_2480



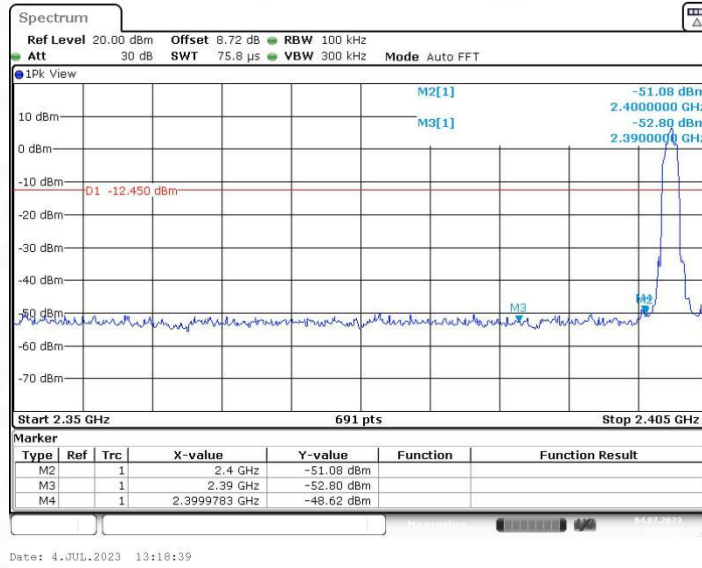
2DH5_Ant1_Low_Hop_2402



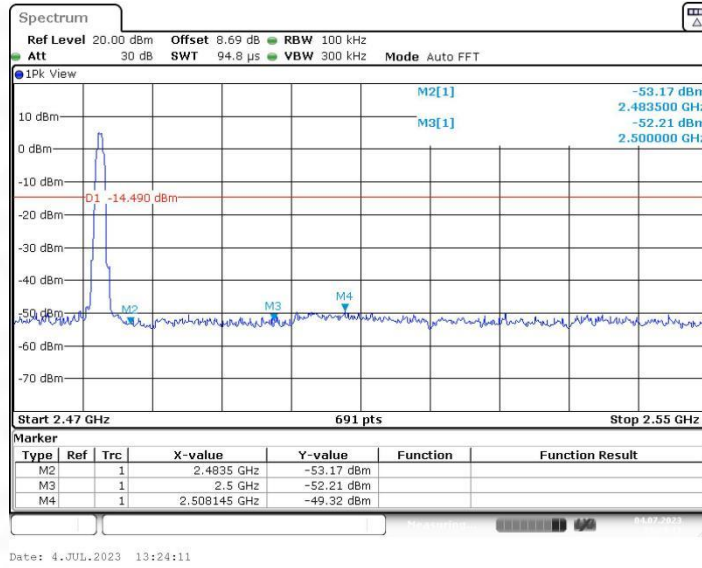
2DH5_Ant1_High_Hop_2480



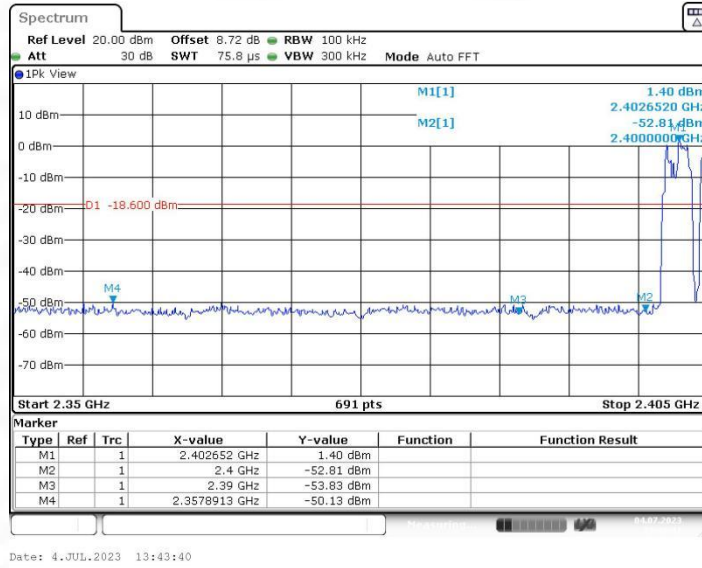
3DH5_Ant1_Low_2402



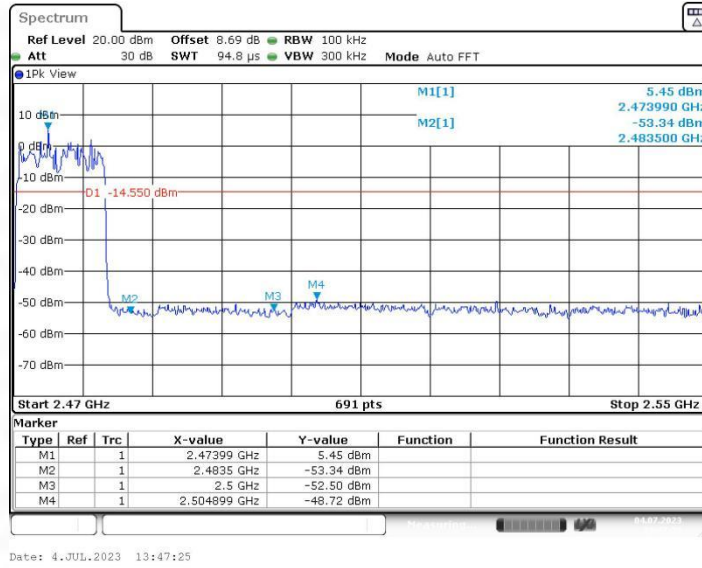
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



7. Form731

7.1 Form731

7.1.1 Test Result

Lower Freq (MHz)	High Freq (MHz)	MAX Power (W)	MAX Power (dBm)
2402	2480	0.01040	10.17



Test Report Number: BTF230725R01003



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-- END OF REPORT --