

Appendix: Bluetooth Classic

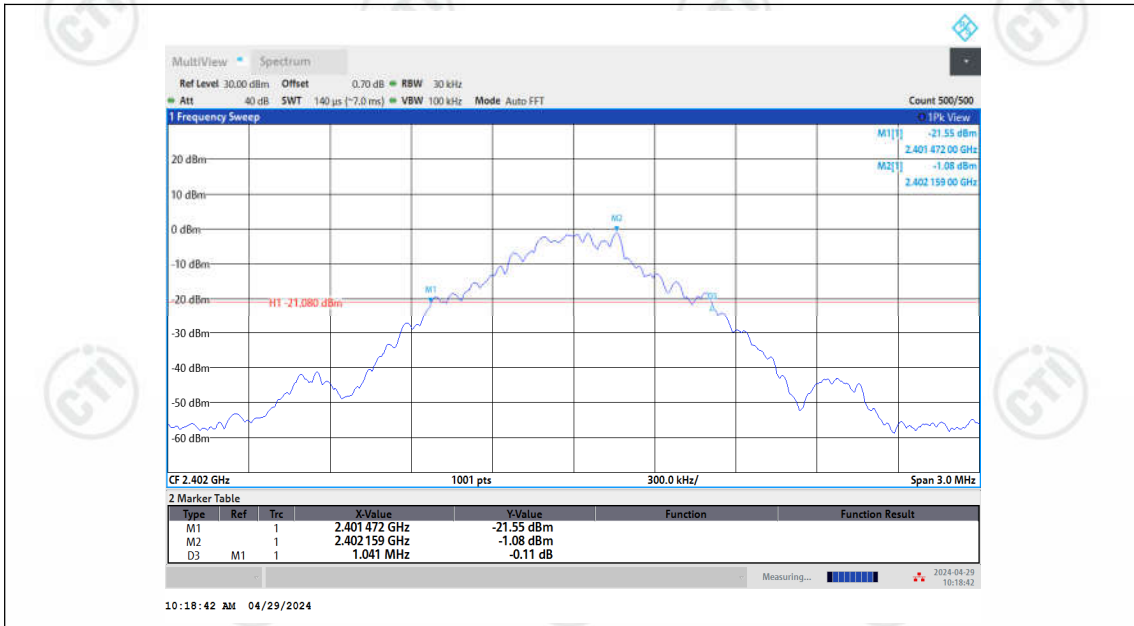
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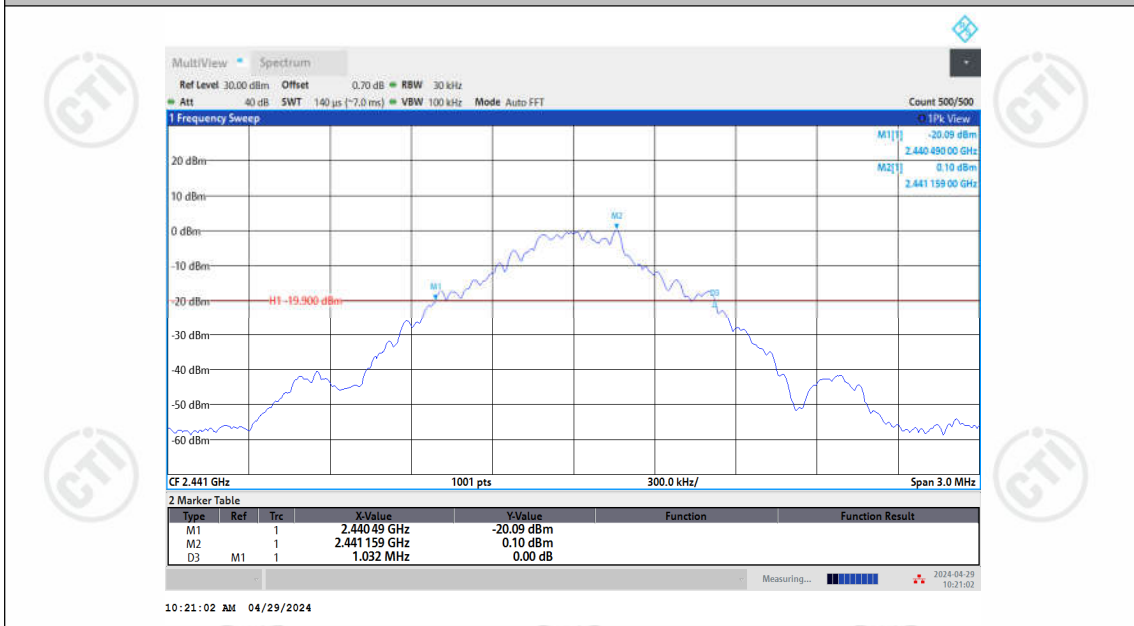
Appendix A: 20dB Emission Bandwidth**Test Result**

Test Mode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.04	2401.47	2402.51	---	---
		2441	1.03	2440.49	2441.52	---	---
		2480	1.03	2479.49	2480.52	---	---
2DH5	Ant1	2402	1.27	2401.37	2402.64	---	---
		2441	1.28	2440.36	2441.65	---	---
		2480	1.31	2479.34	2480.65	---	---
3DH5	Ant1	2402	1.25	2401.36	2402.61	---	---
		2441	1.30	2440.35	2441.65	---	---
		2480	1.27	2479.36	2480.62	---	---

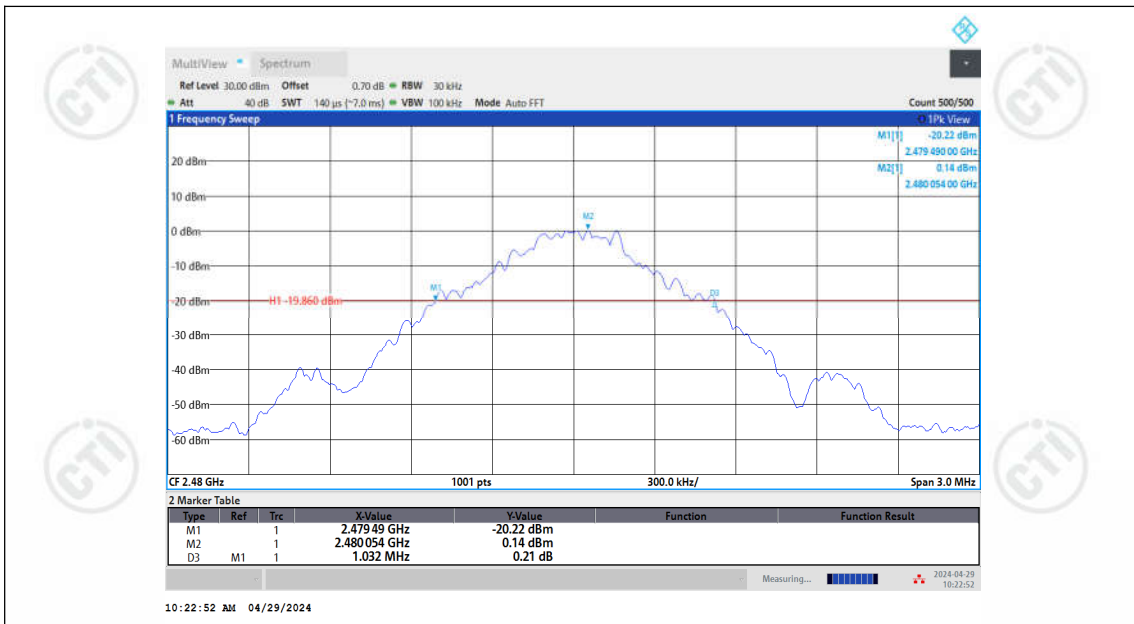
Test Graphs



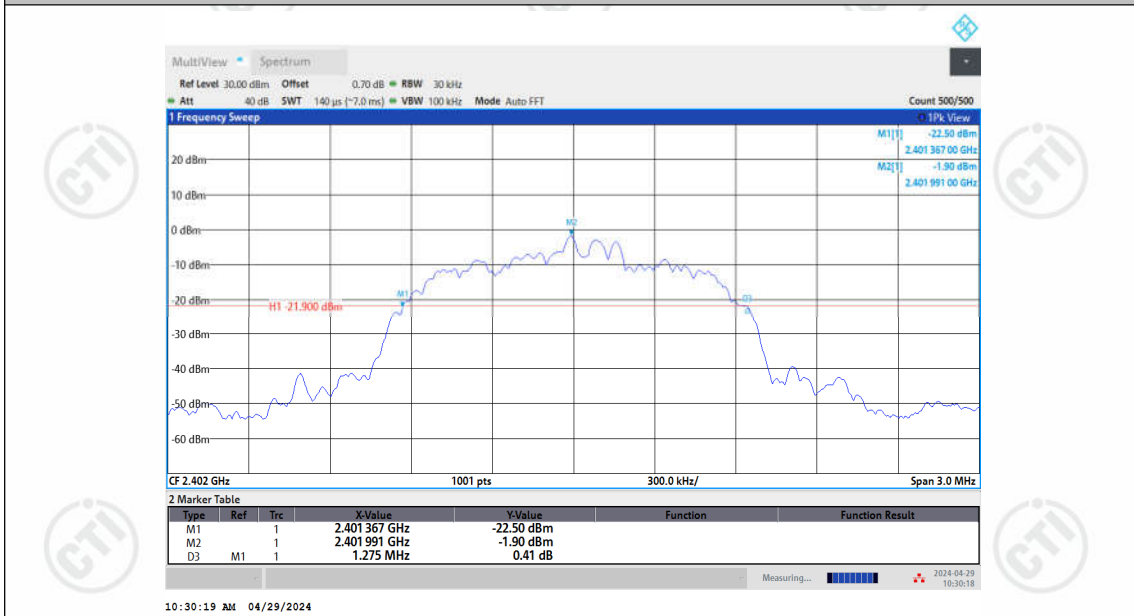
DH5_Ant1_2402



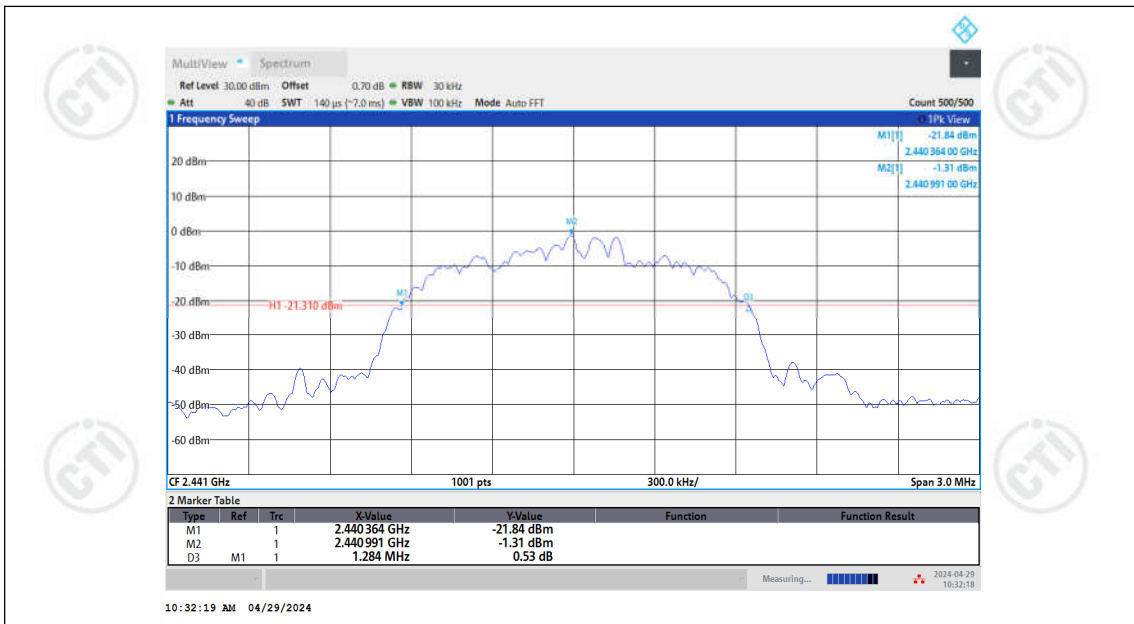
DH5_Ant1_2441



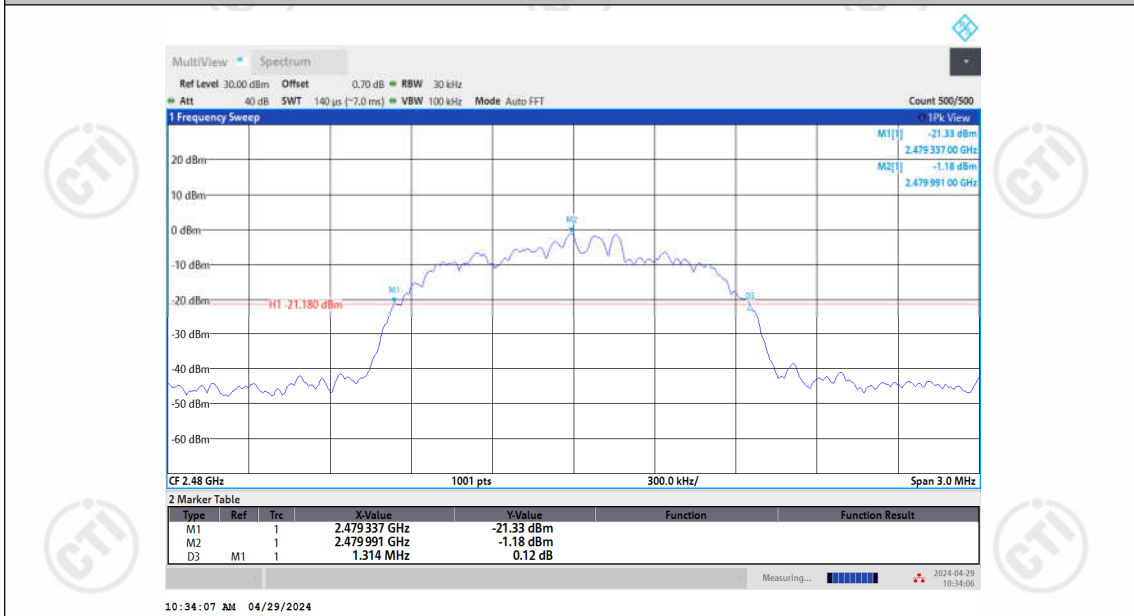
DH5_Ant1_2480



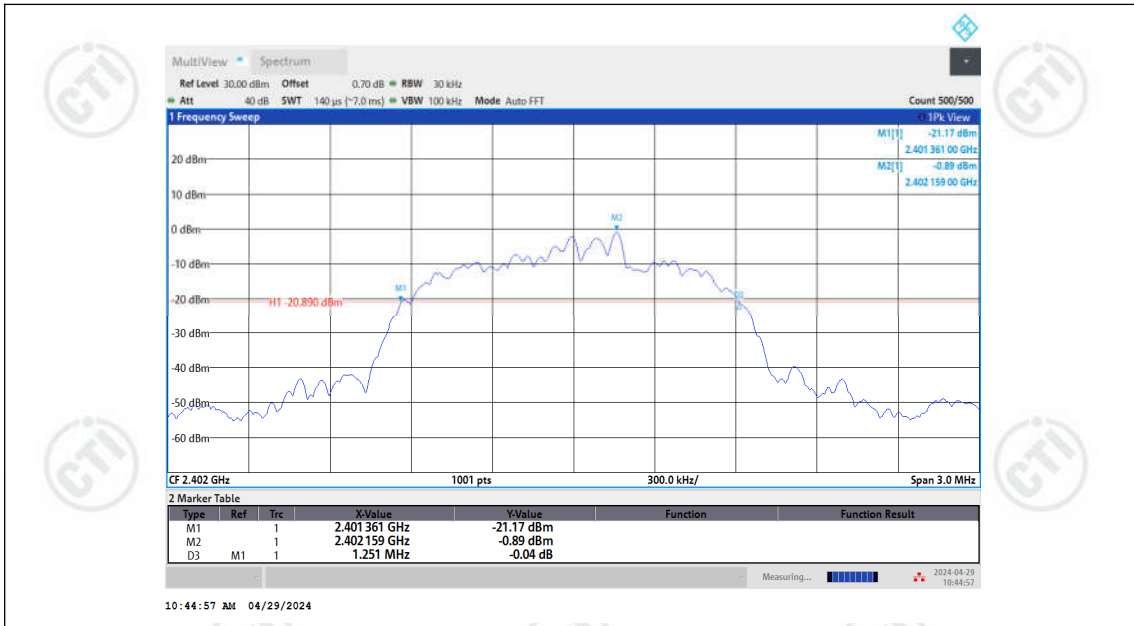
2DH5_Ant1_2402



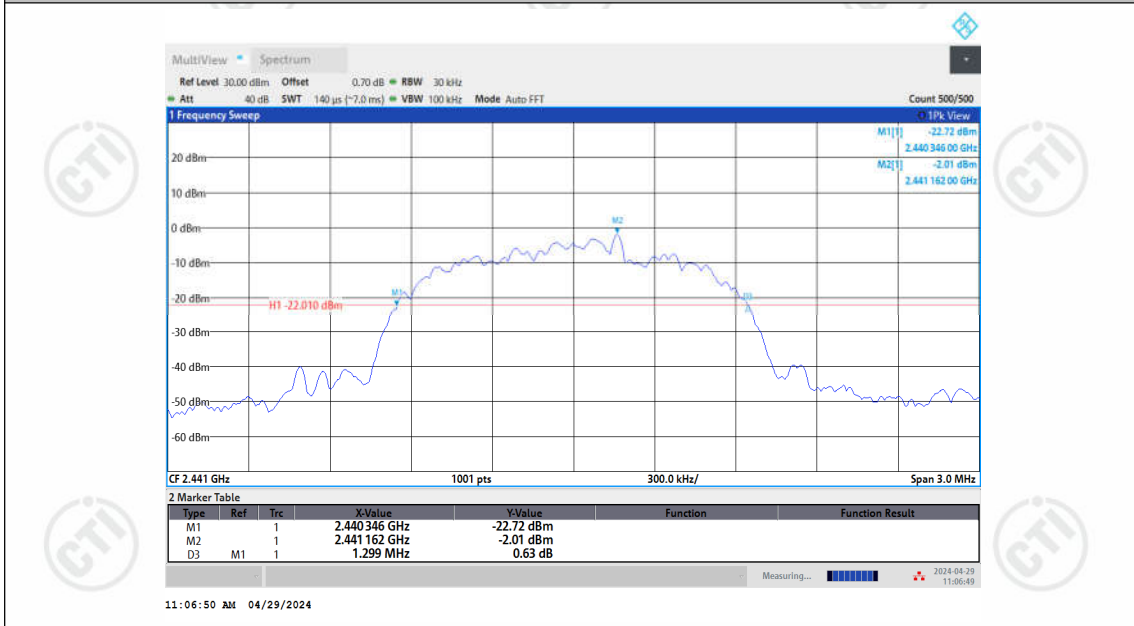
2DH5_Ant1_2441



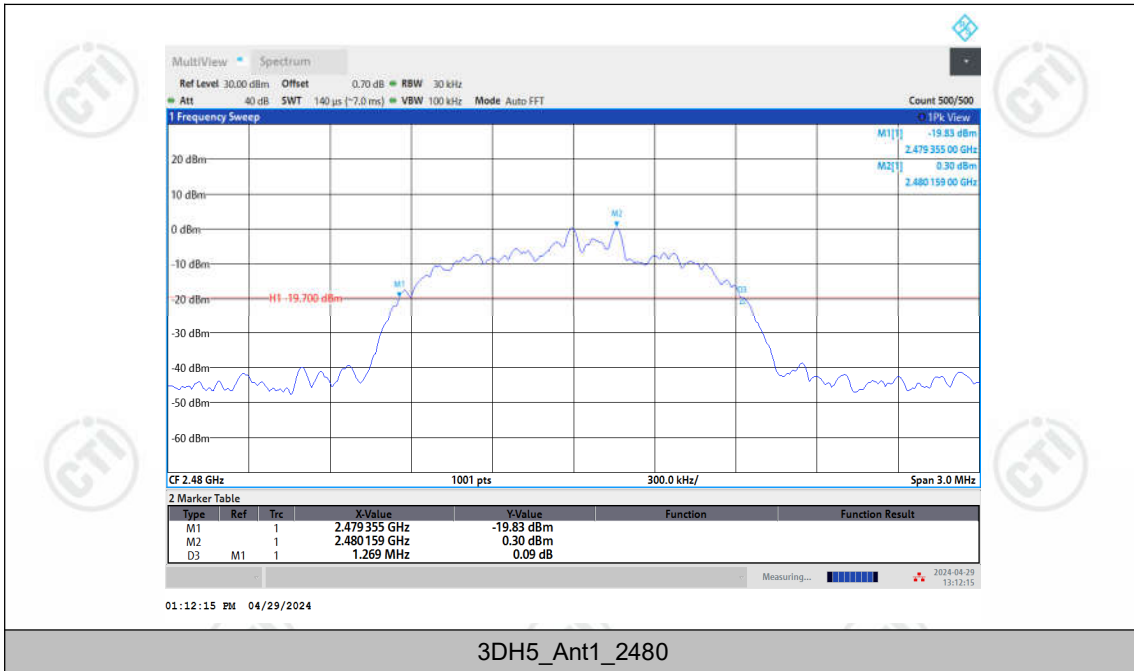
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

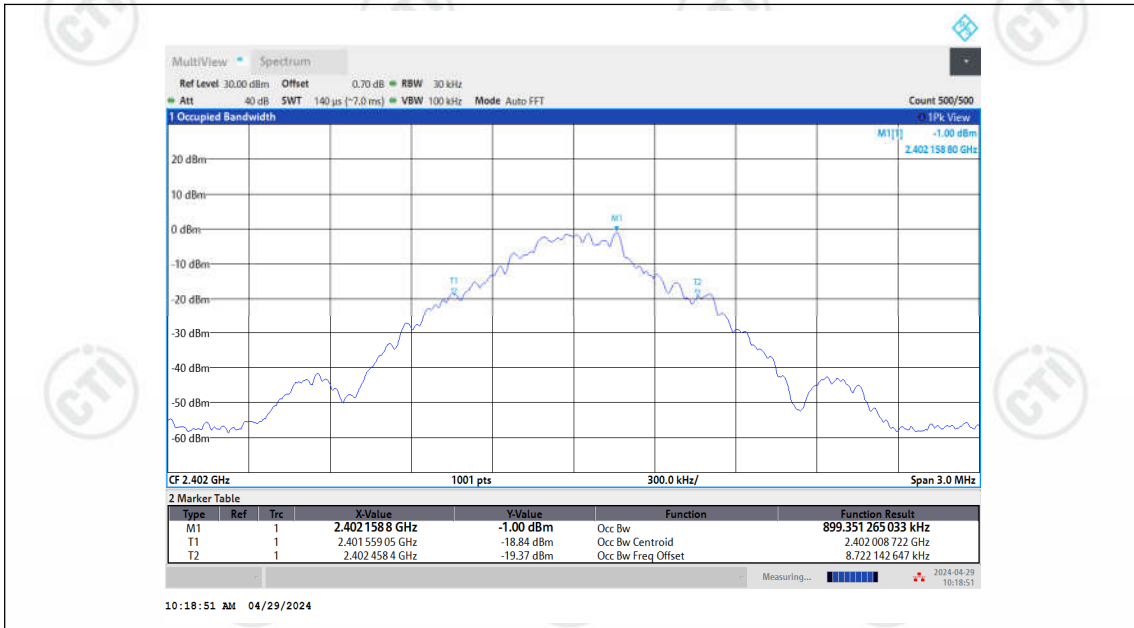


Appendix B: Occupied Channel Bandwidth

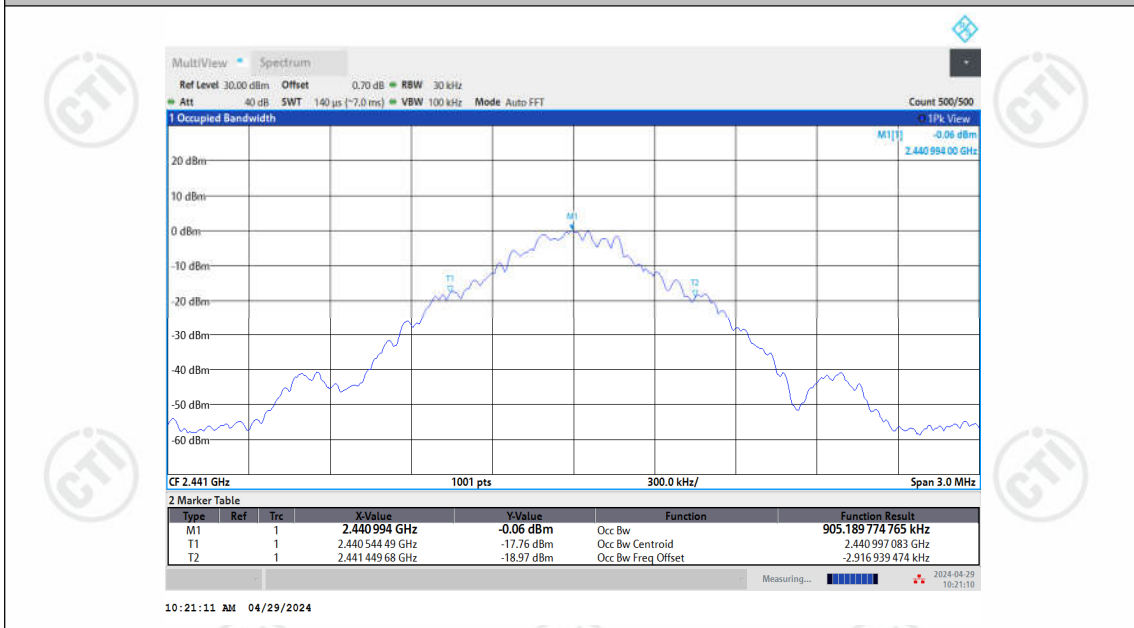
Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.899	2401.559	2402.458	---	---
		2441	0.905	2440.544	2441.450	---	---
		2480	0.863	2479.559	2480.422	---	---
2DH5	Ant1	2402	1.153	2401.416	2402.569	---	---
		2441	1.151	2440.417	2441.568	---	---
		2480	1.167	2479.409	2480.577	---	---
3DH5	Ant1	2402	1.153	2401.422	2402.575	---	---
		2441	1.175	2440.409	2441.584	---	---
		2480	1.159	2479.418	2480.577	---	---

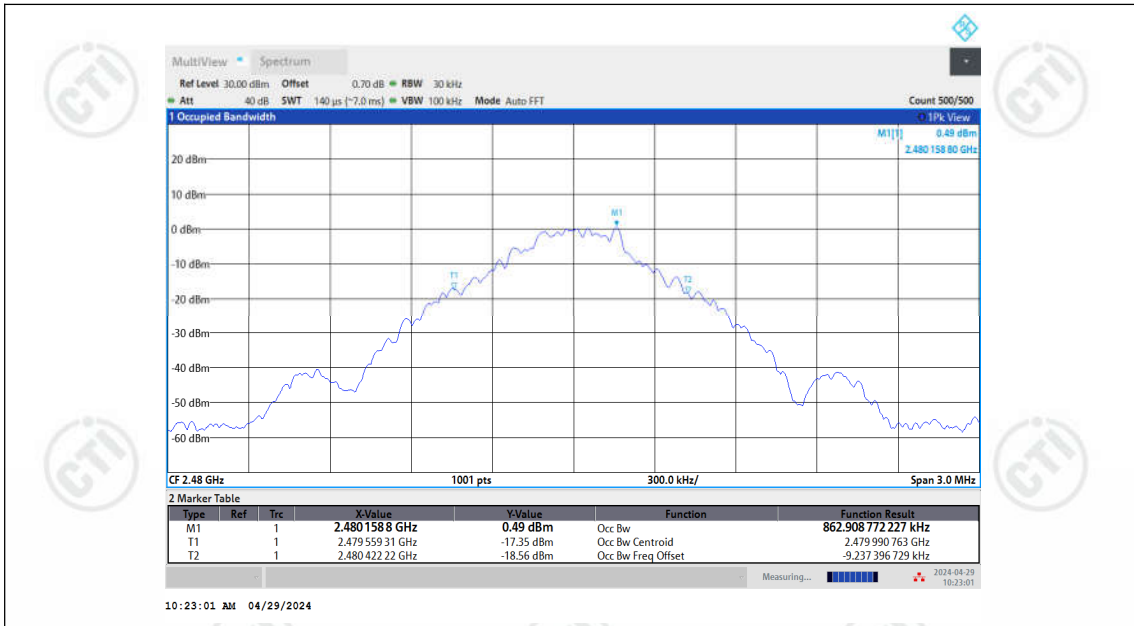
Test Graphs



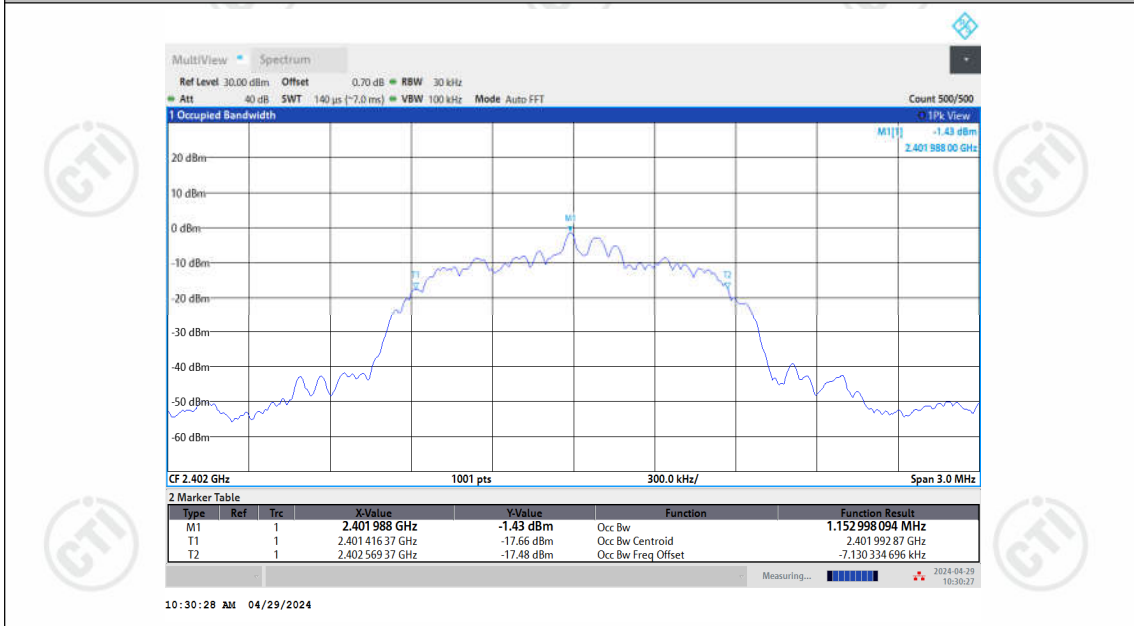
DH5_Ant1_2402



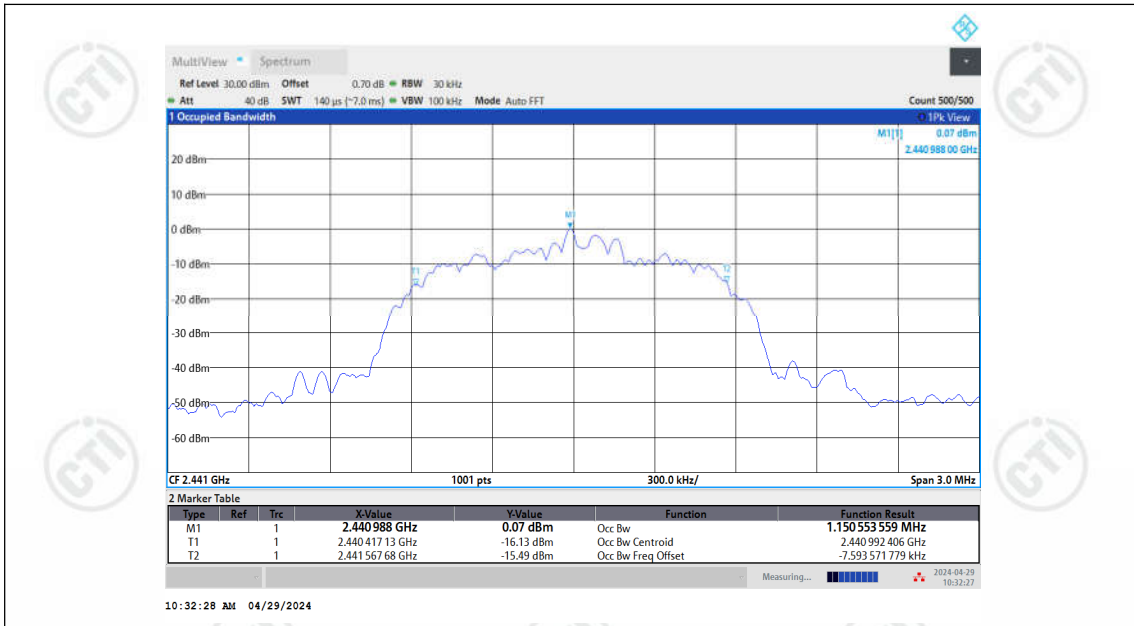
DH5_Ant1_2441



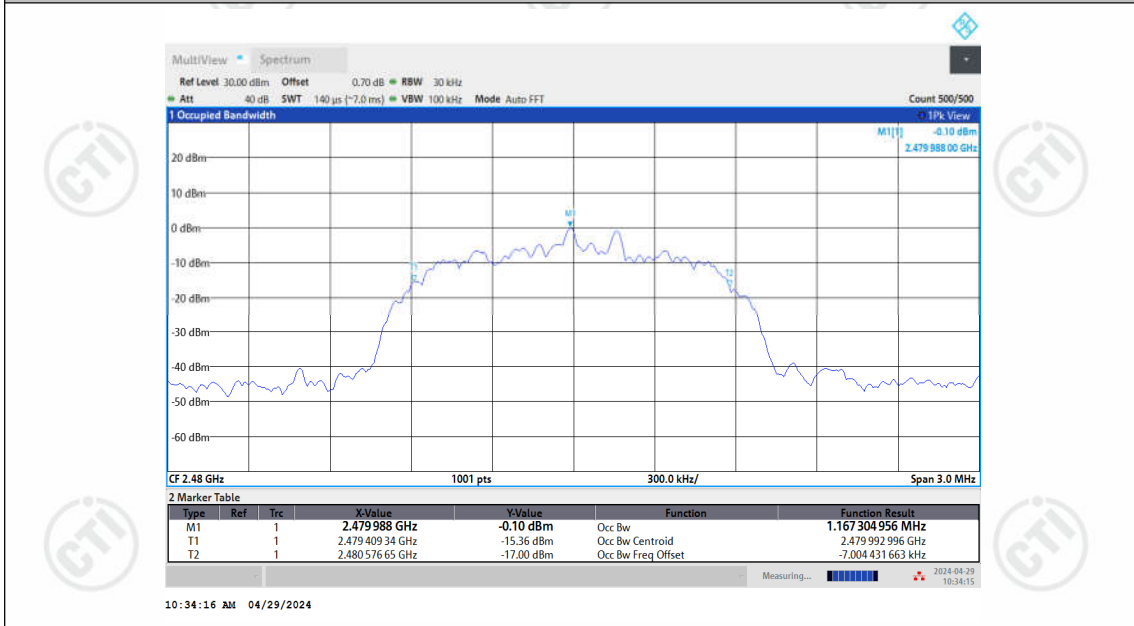
DH5_Ant1_2480



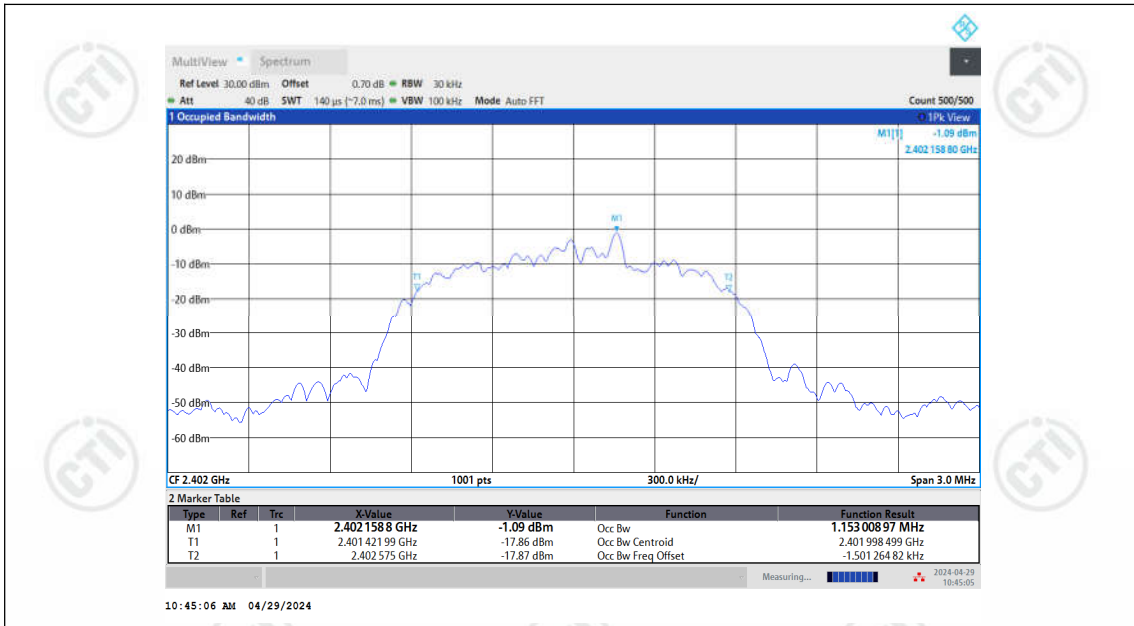
2DH5_Ant1_2402



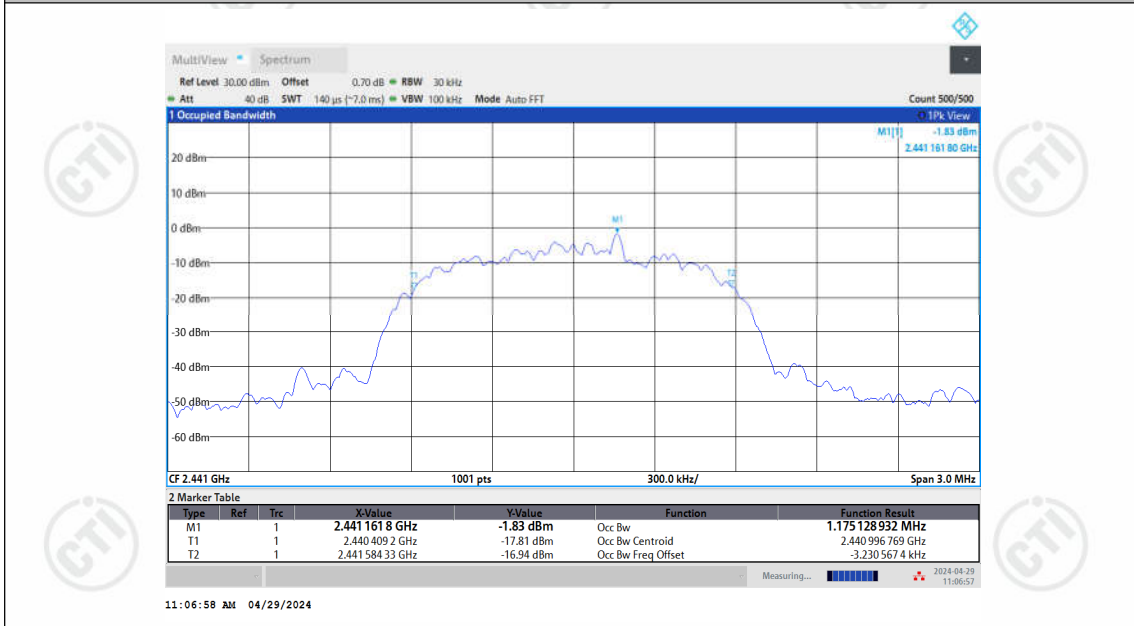
2DH5_Ant1_2441



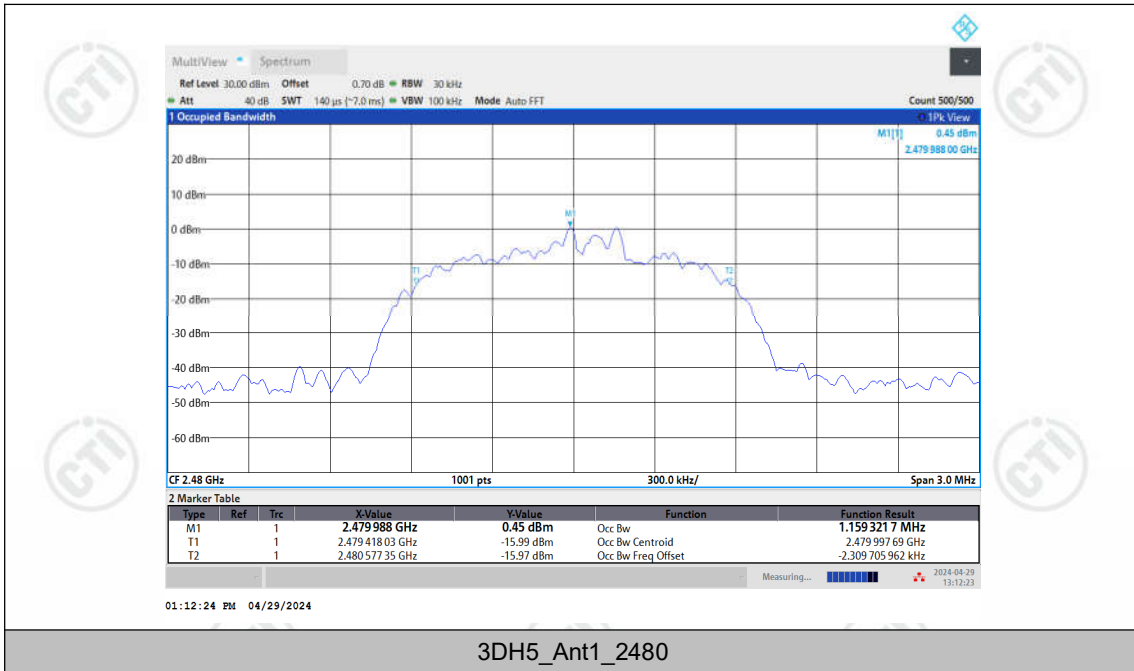
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

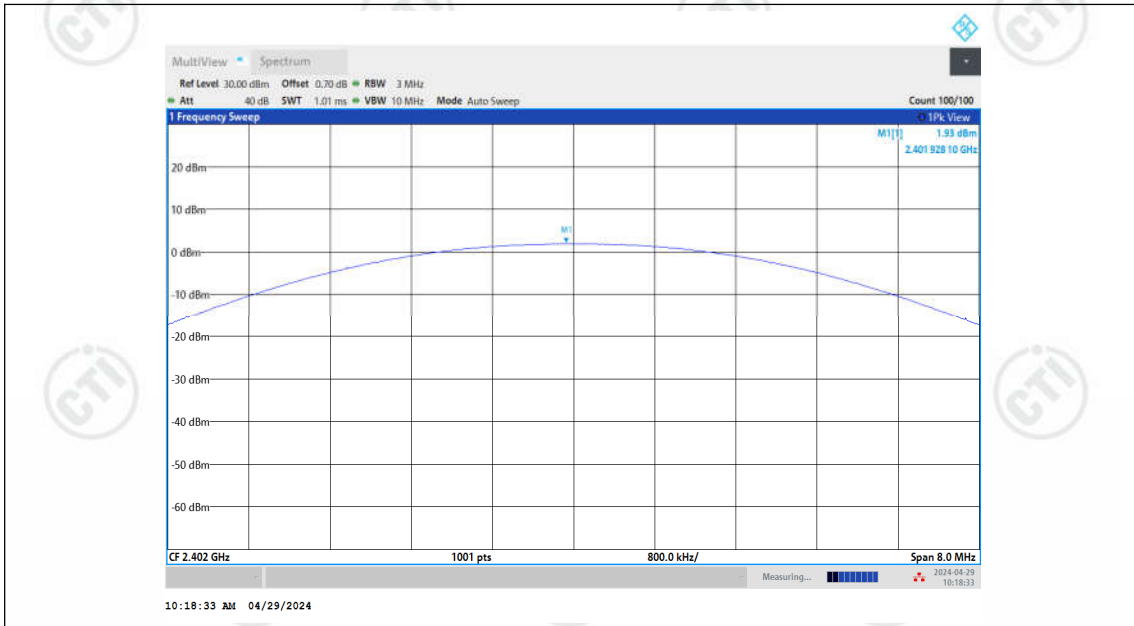


Appendix C: Maximum conducted output power

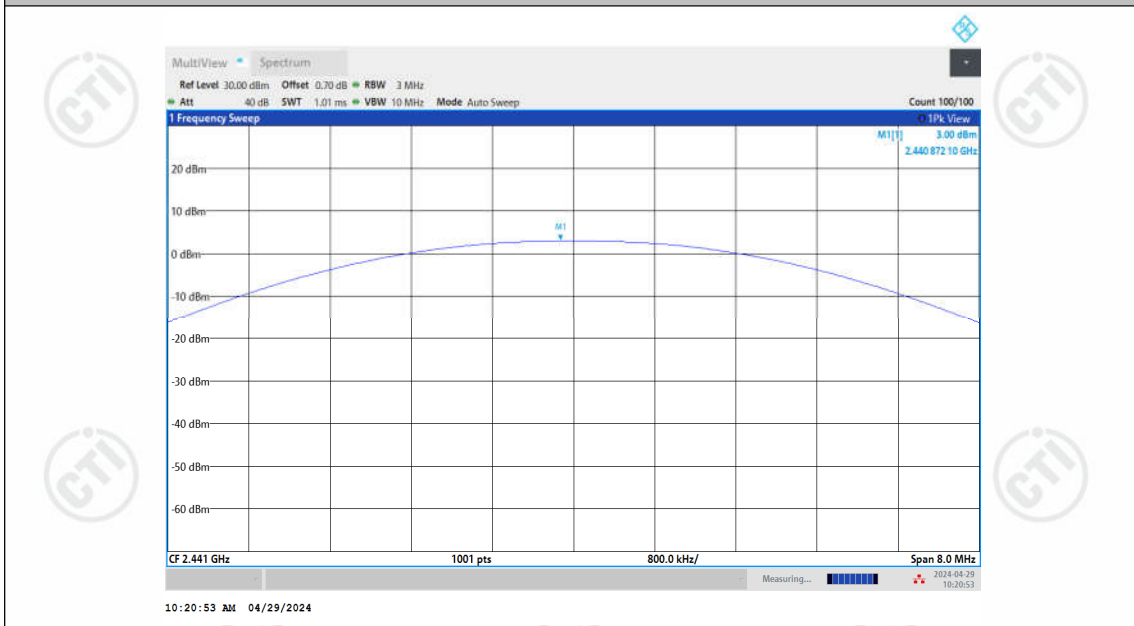
Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	1.93	≤30	PASS
		2441	3	≤20.97	PASS
		2480	3.26	≤20.97	PASS
2DH5	Ant1	2402	1.94	≤30	PASS
		2441	3.03	≤20.97	PASS
		2480	3.29	≤20.97	PASS
3DH5	Ant1	2402	1.91	≤30	PASS
		2441	3.03	≤20.97	PASS
		2480	3.37	≤20.97	PASS

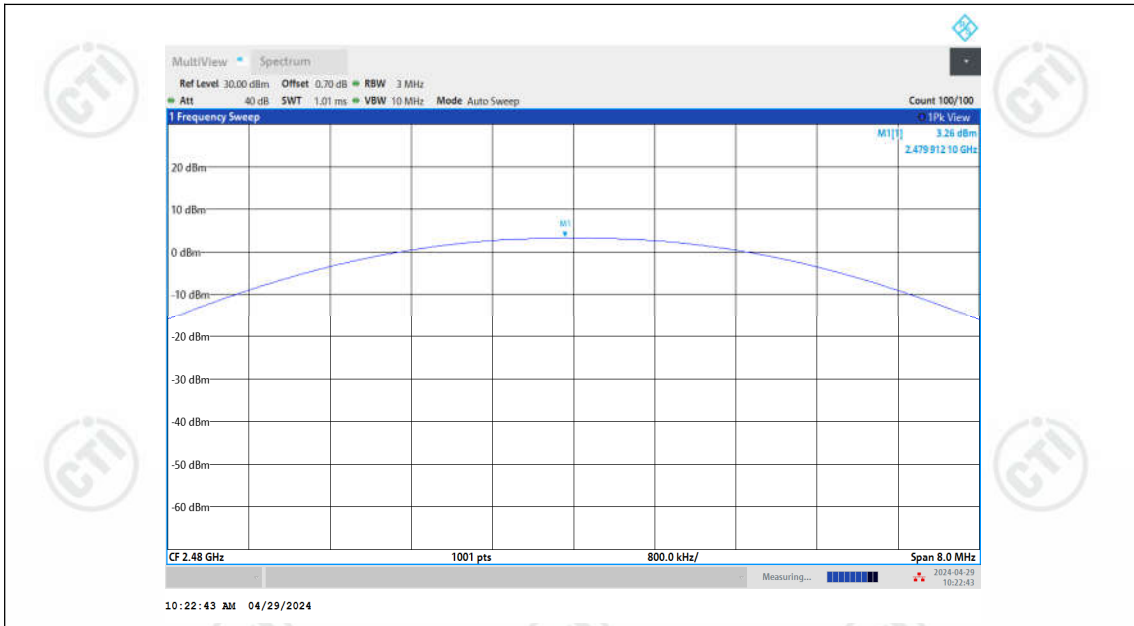
Test Graphs



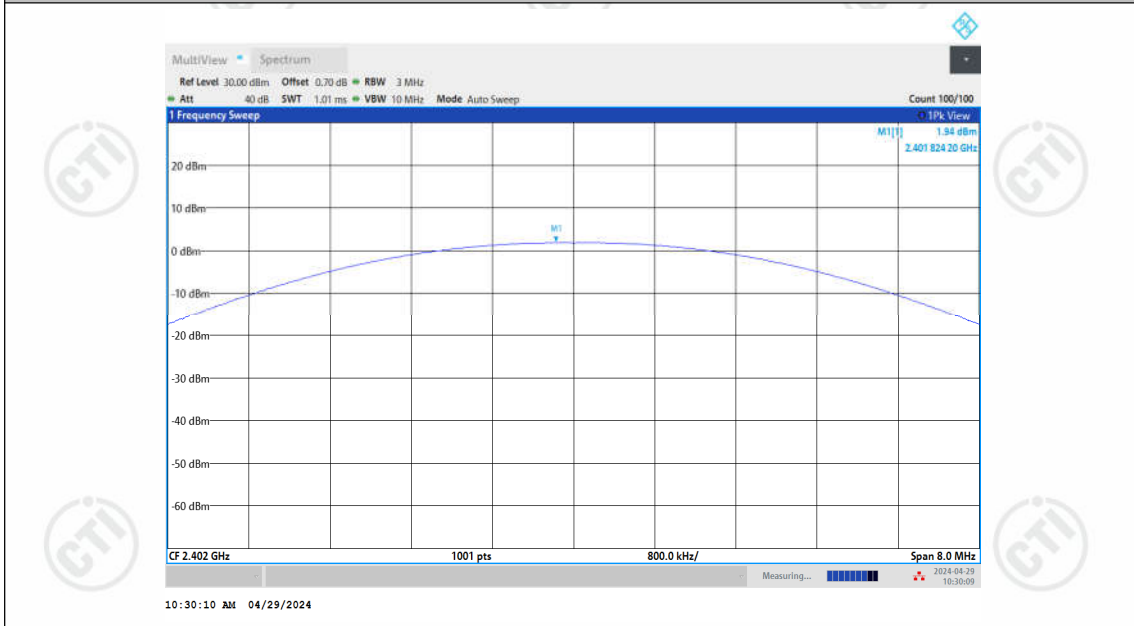
DH5_Ant1_2402



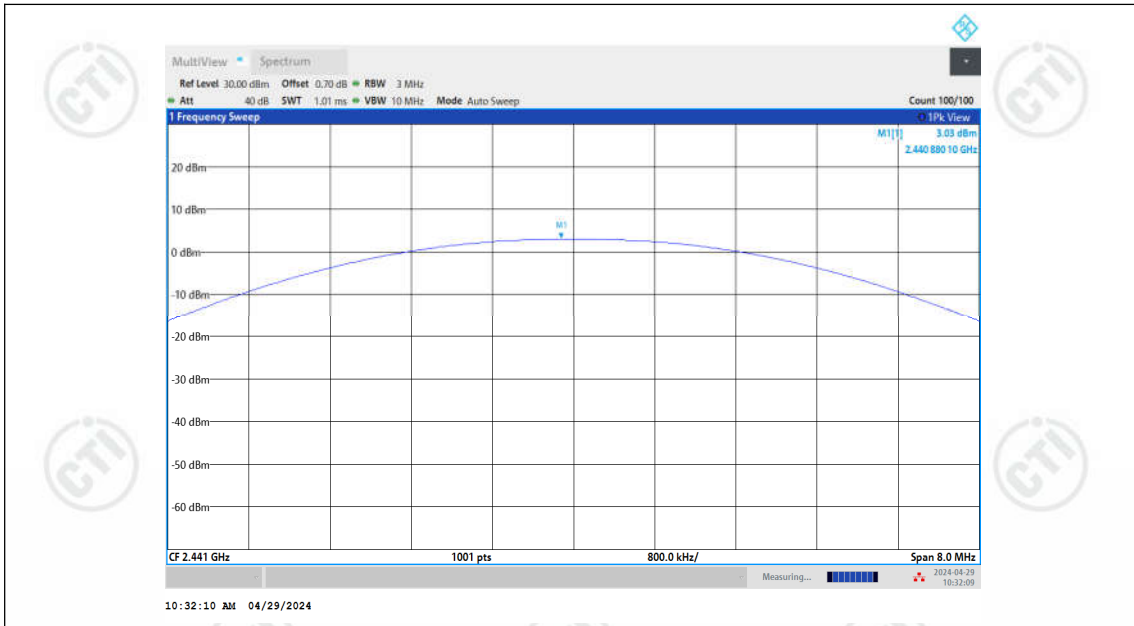
DH5_Ant1_2441



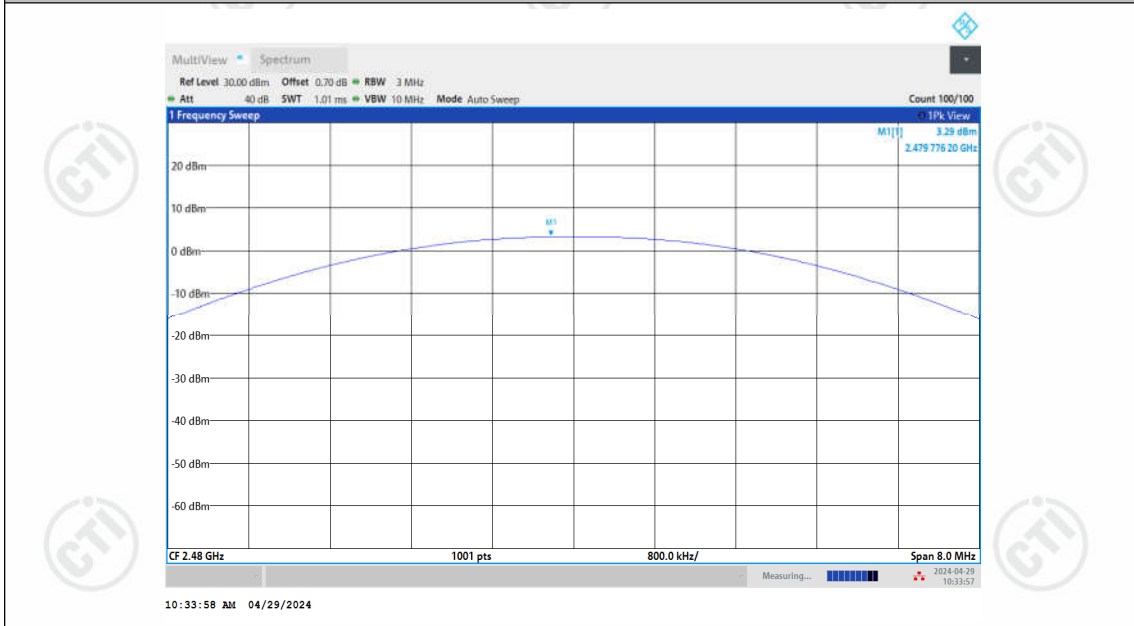
DH5_Ant1_2480



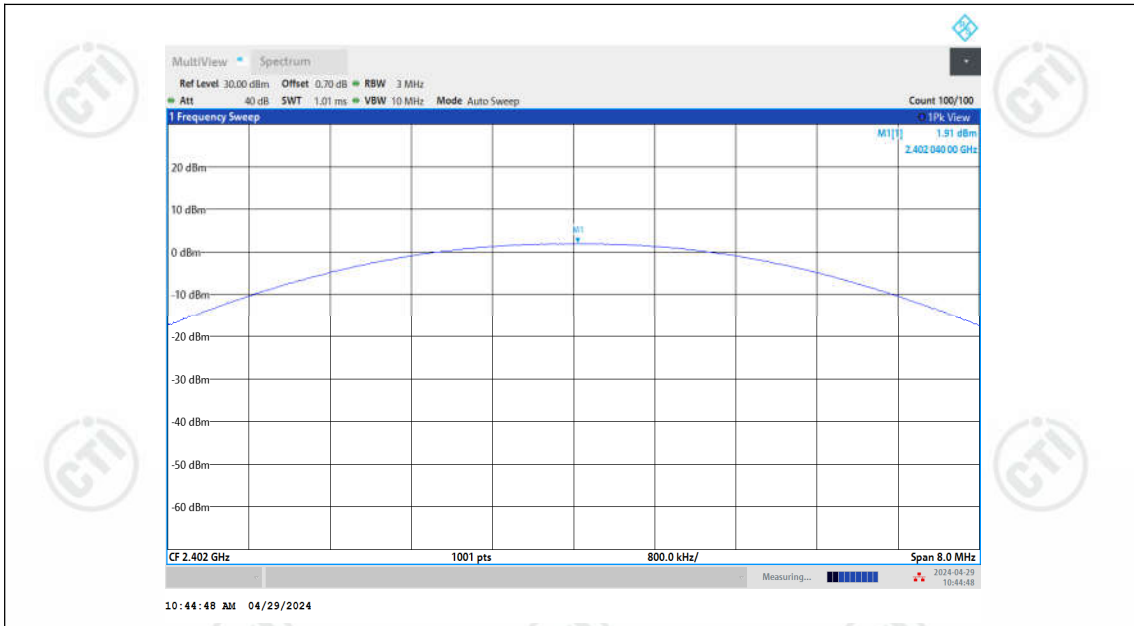
2DH5_Ant1_2402



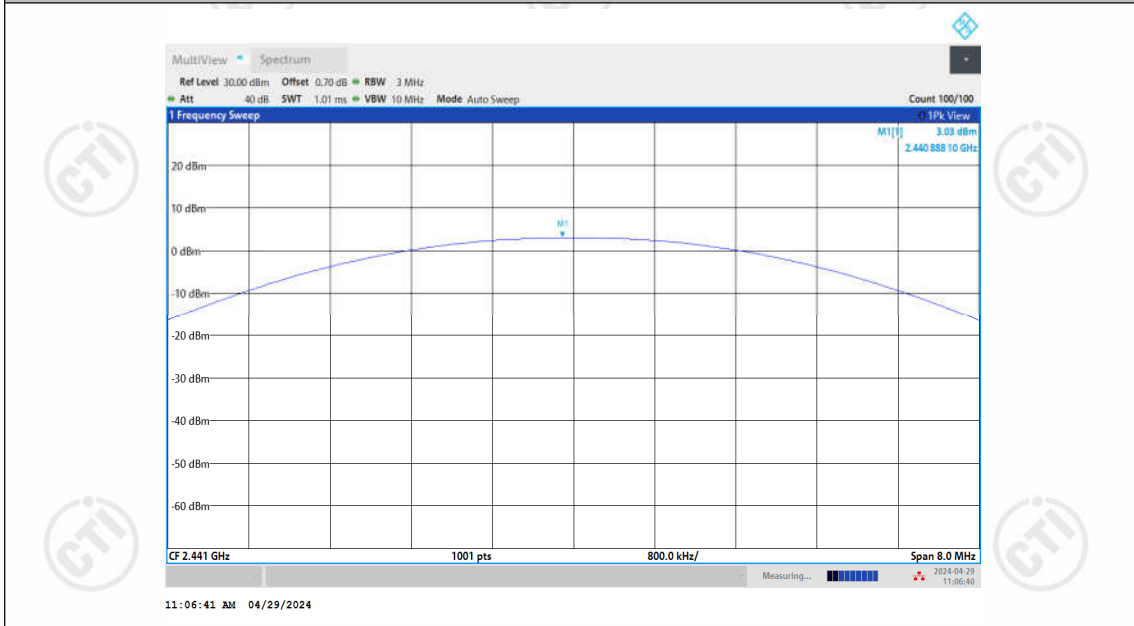
2DH5_Ant1_2441



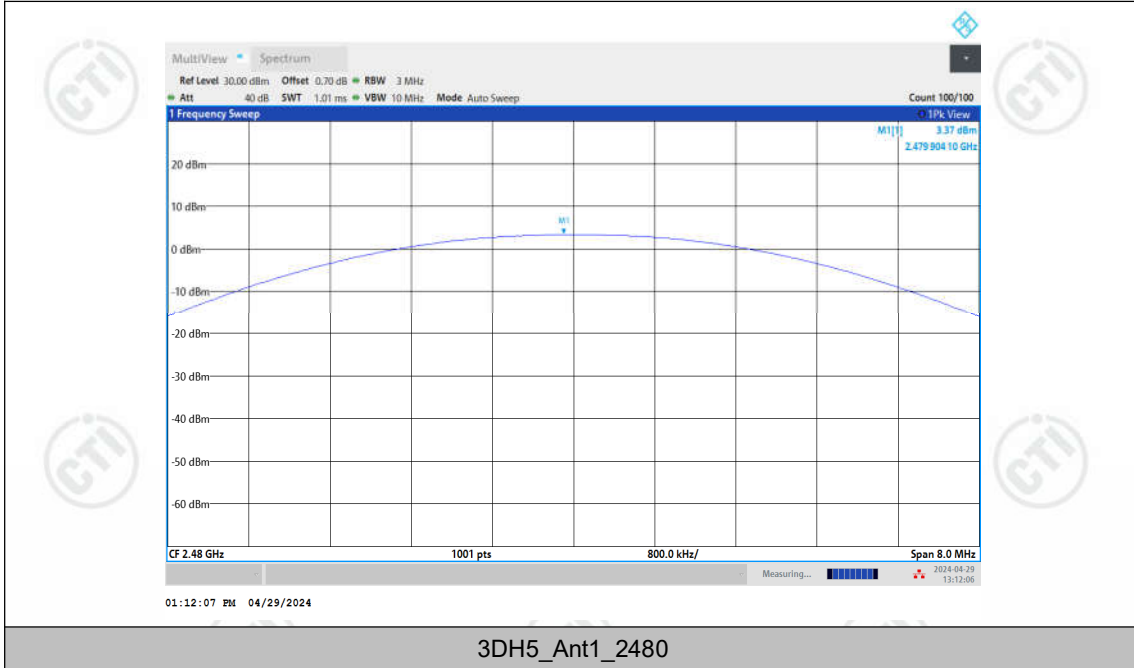
2DH5_Ant1_2480



3DH5_Ant1_2402



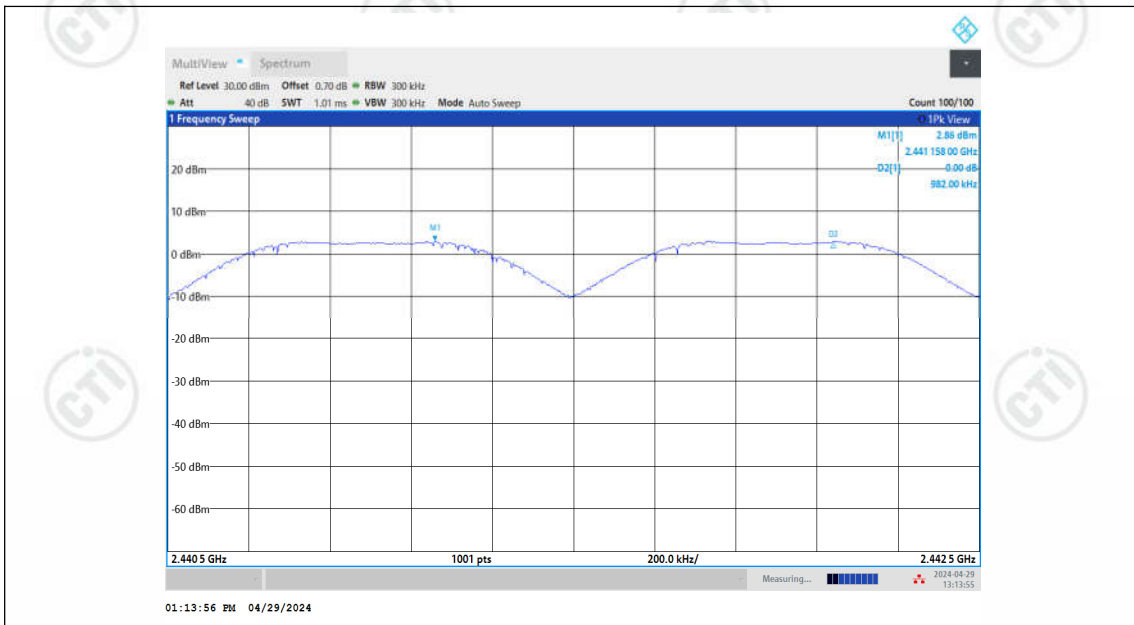
3DH5_Ant1_2441



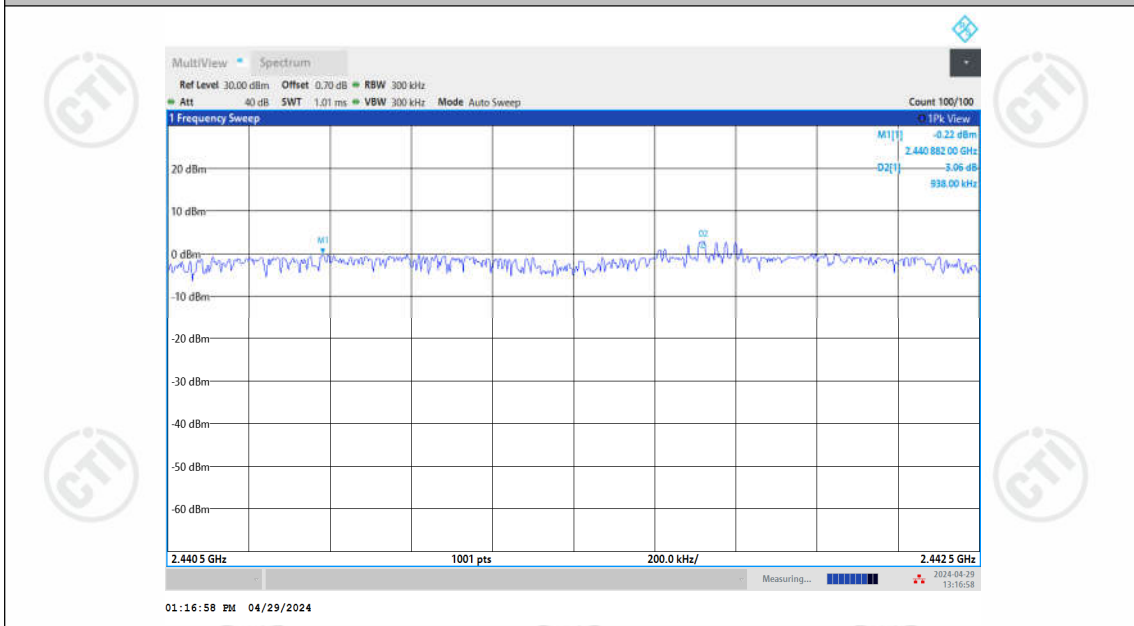
Appendix D: Carrier frequency separation**Test Result**

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.982	≥0.693	PASS
2DH5	Ant1	Hop	0.938	≥0.873	PASS
3DH5	Ant1	Hop	0.976	≥0.867	PASS

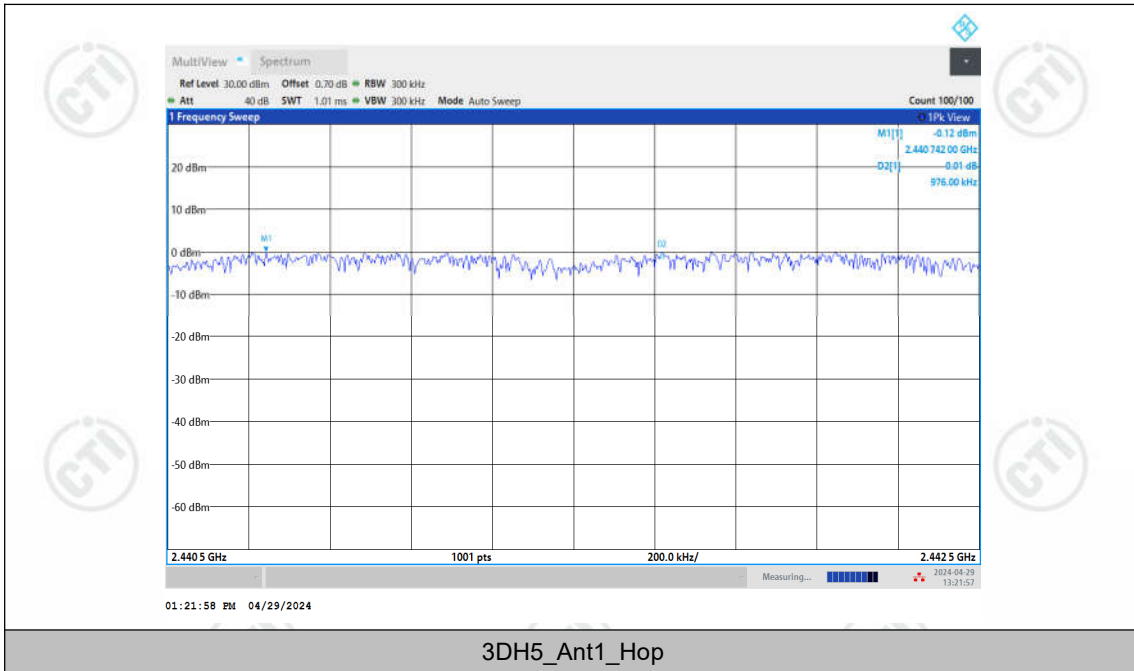
Test Graphs



DH5_Ant1_Hop



2DH5_Ant1_Hop

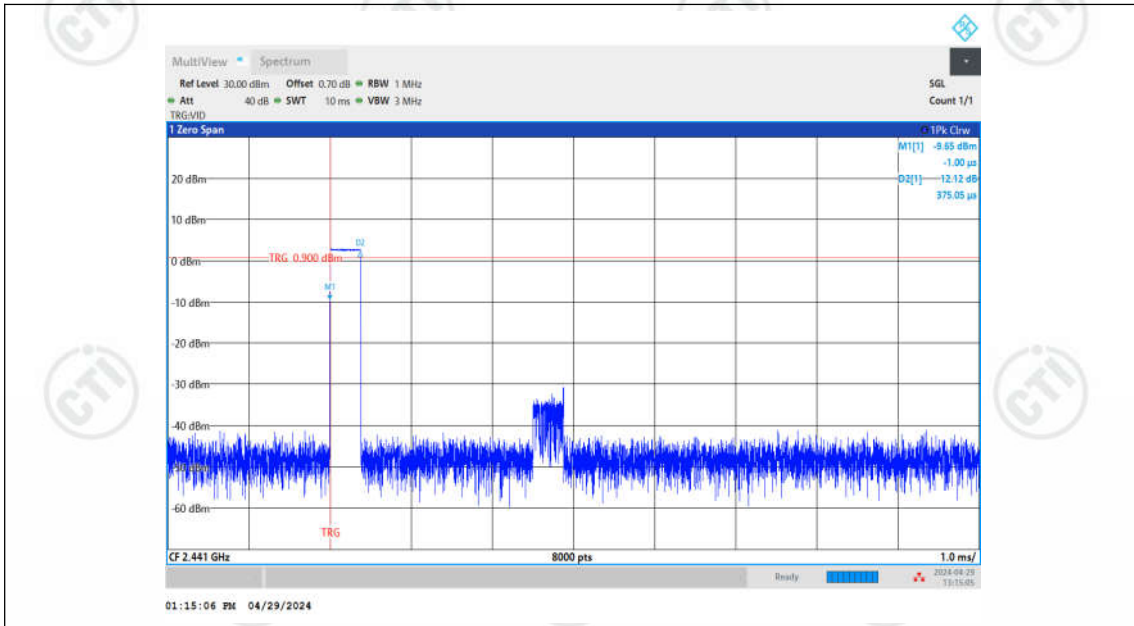


3DH5_Ant1_Hop

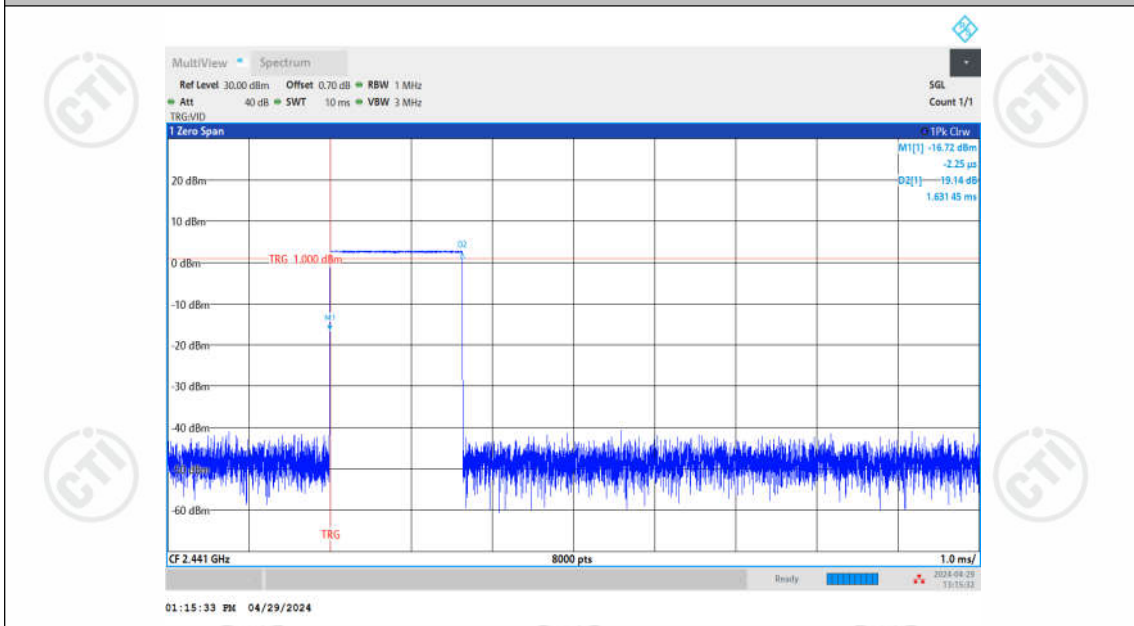
Appendix E: Time of occupancy**Test Result**

Test Mode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	320	0.12	≤0.4	PASS
DH3	Ant1	Hop	1.63	160	0.261	≤0.4	PASS
DH5	Ant1	Hop	2.88	106.67	0.307	≤0.4	PASS
2DH1	Ant1	Hop	0.38	320	0.123	≤0.4	PASS
2DH3	Ant1	Hop	1.64	160	0.262	≤0.4	PASS
2DH5	Ant1	Hop	2.88	106.67	0.308	≤0.4	PASS
3DH1	Ant1	Hop	0.39	320	0.123	≤0.4	PASS
3DH3	Ant1	Hop	1.64	160	0.262	≤0.4	PASS
3DH5	Ant1	Hop	2.89	106.67	0.308	≤0.4	PASS

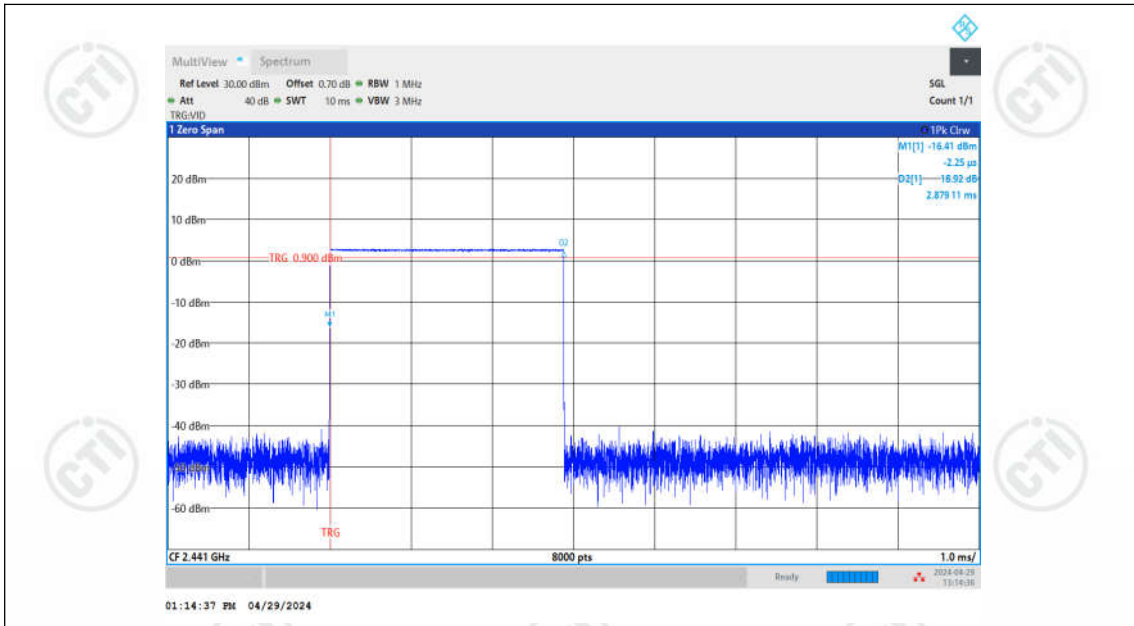
Test Graphs



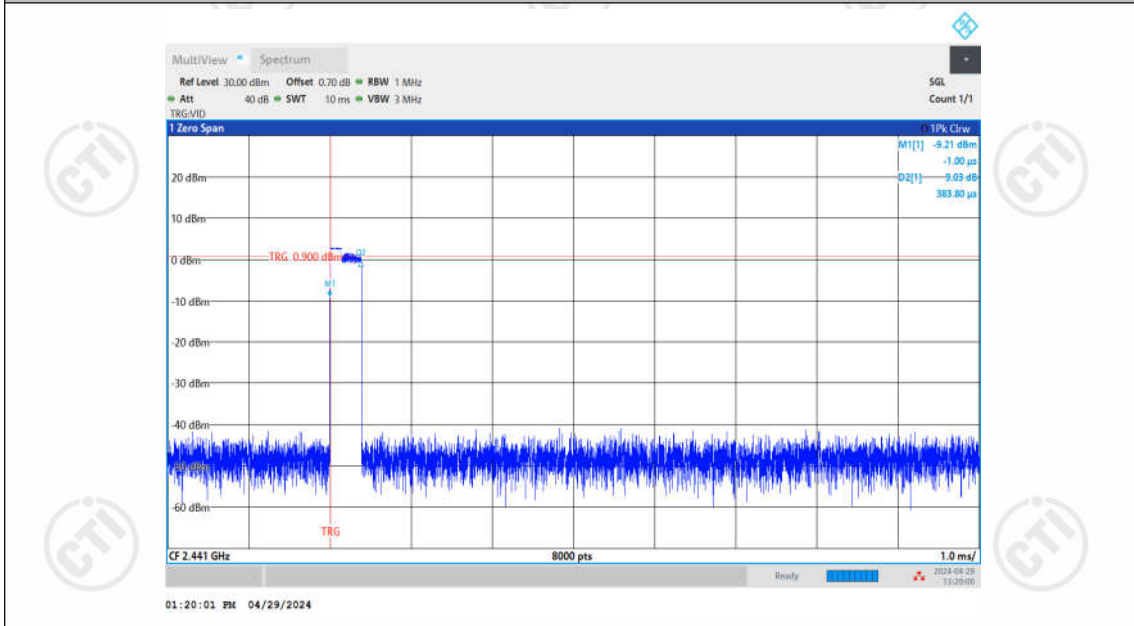
DH1_Ant1_Hop



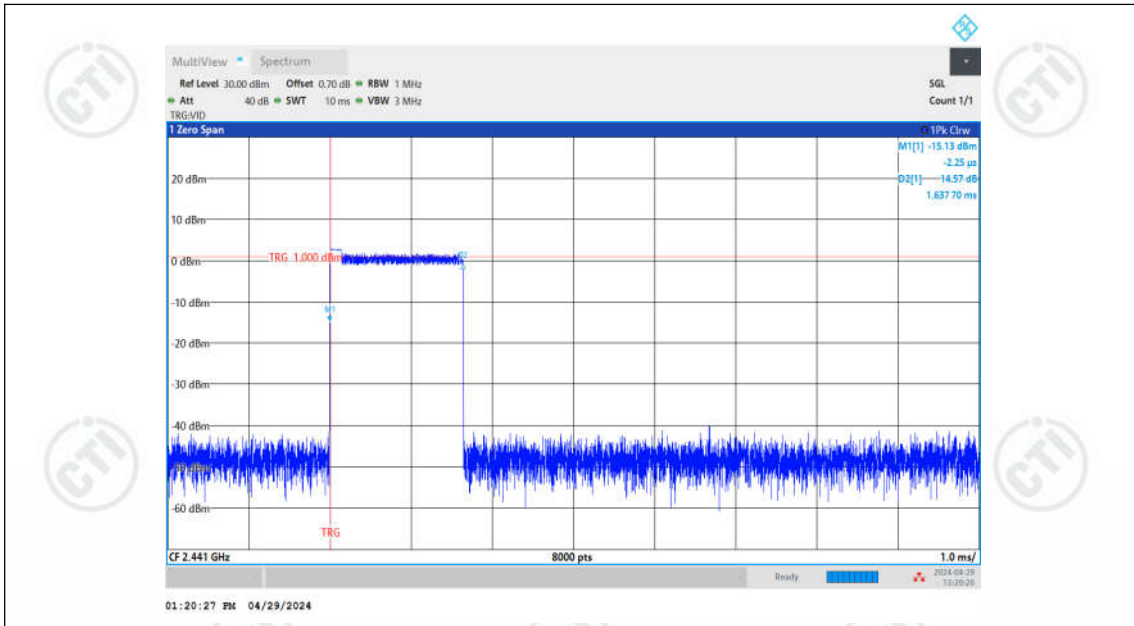
DH3_Ant1_Hop



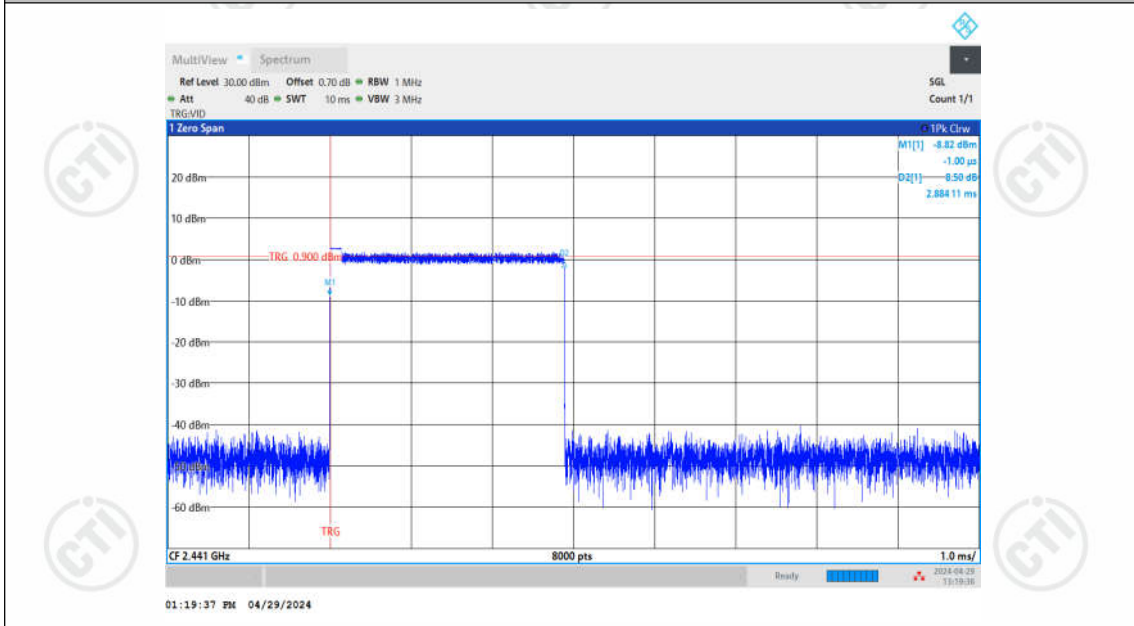
DH5_Ant1_Hop



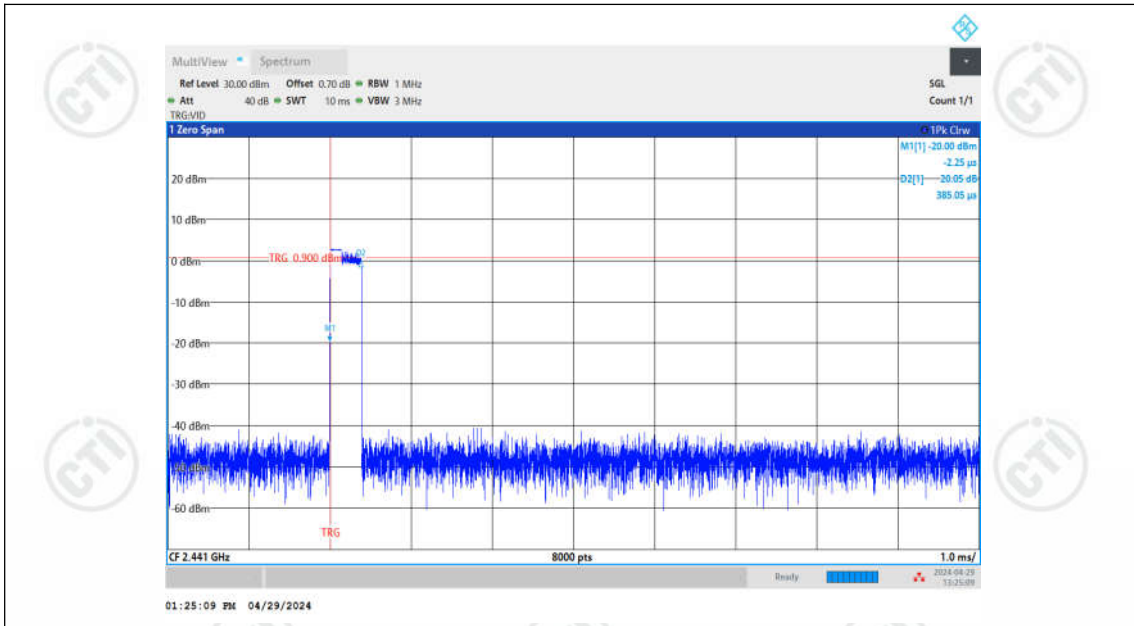
2DH1_Ant1_Hop



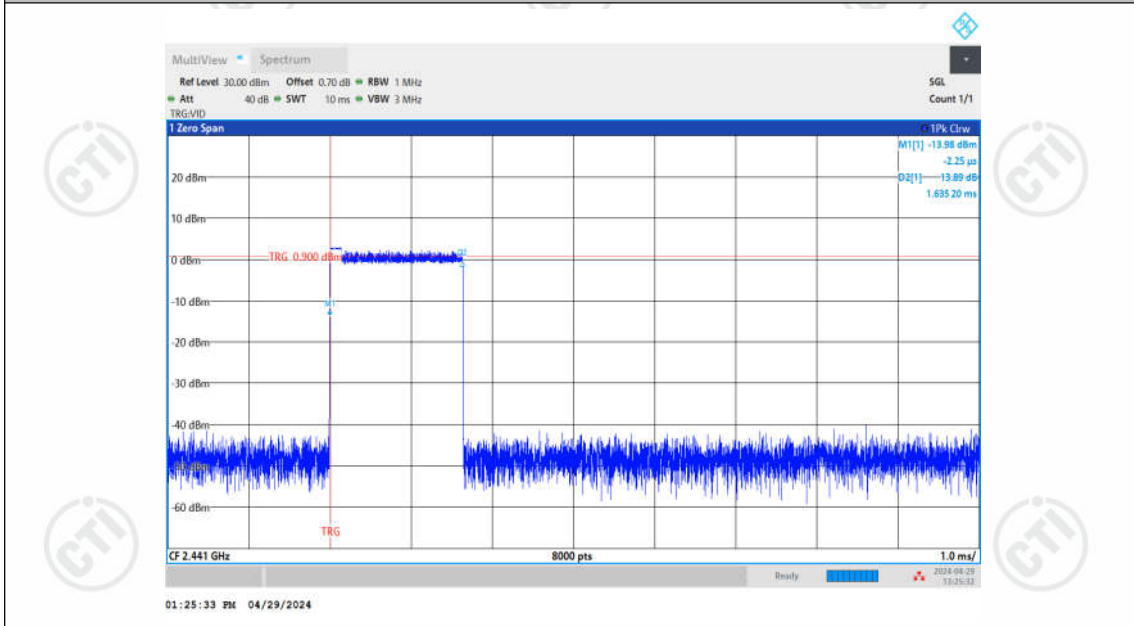
2DH3_Ant1_Hop



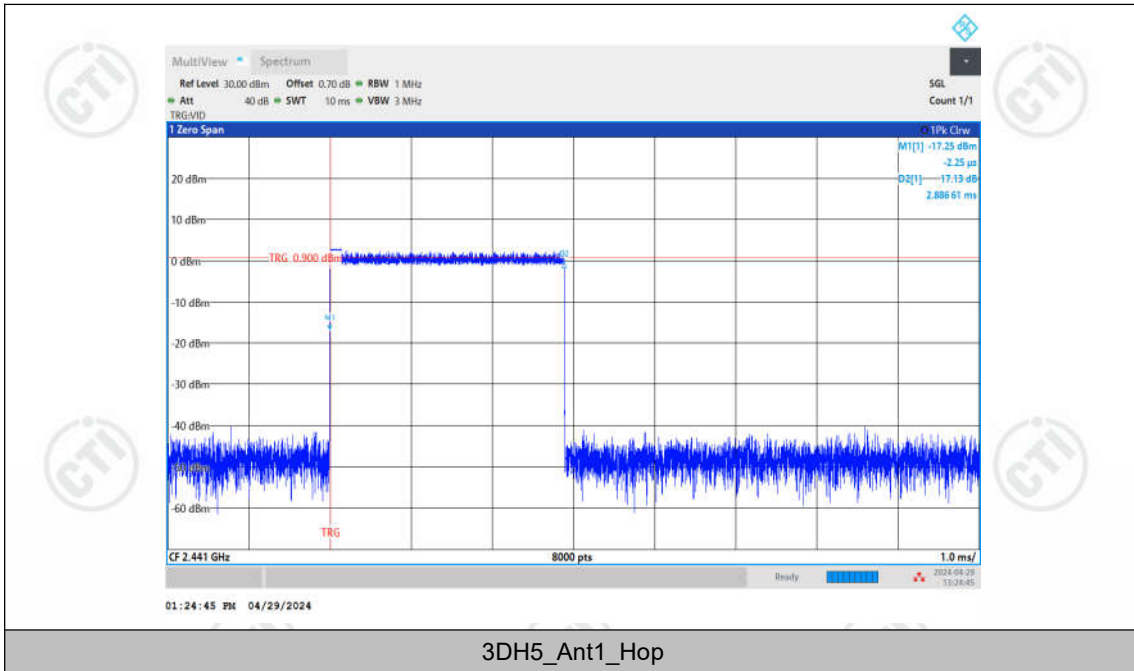
2DH5_Ant1_Hop



3DH1_Ant1_Hop



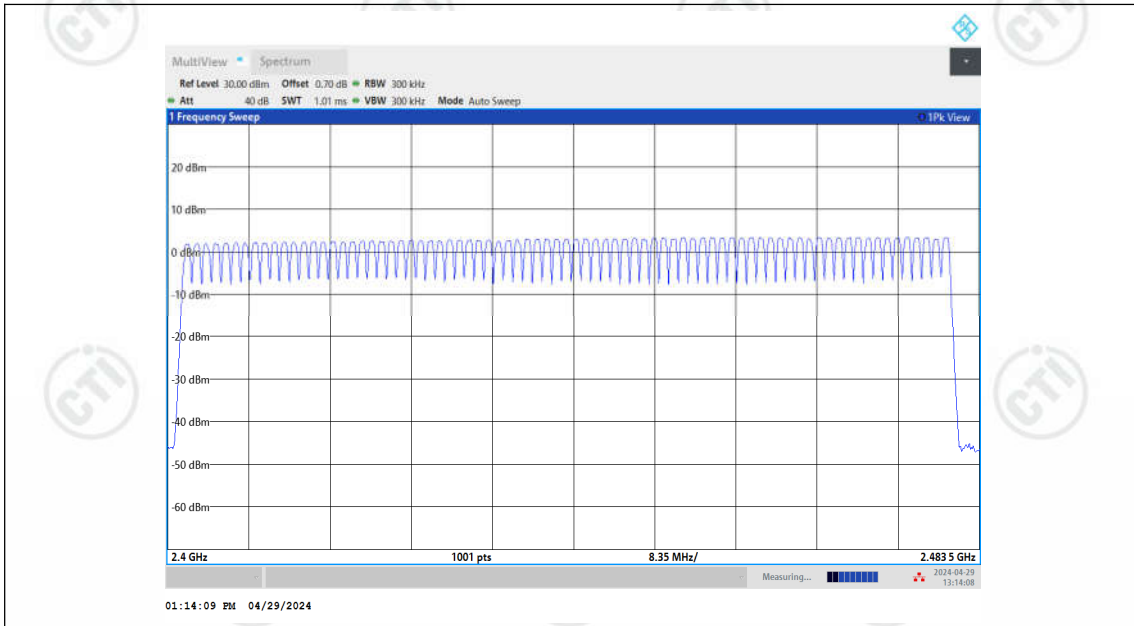
3DH3_Ant1_Hop



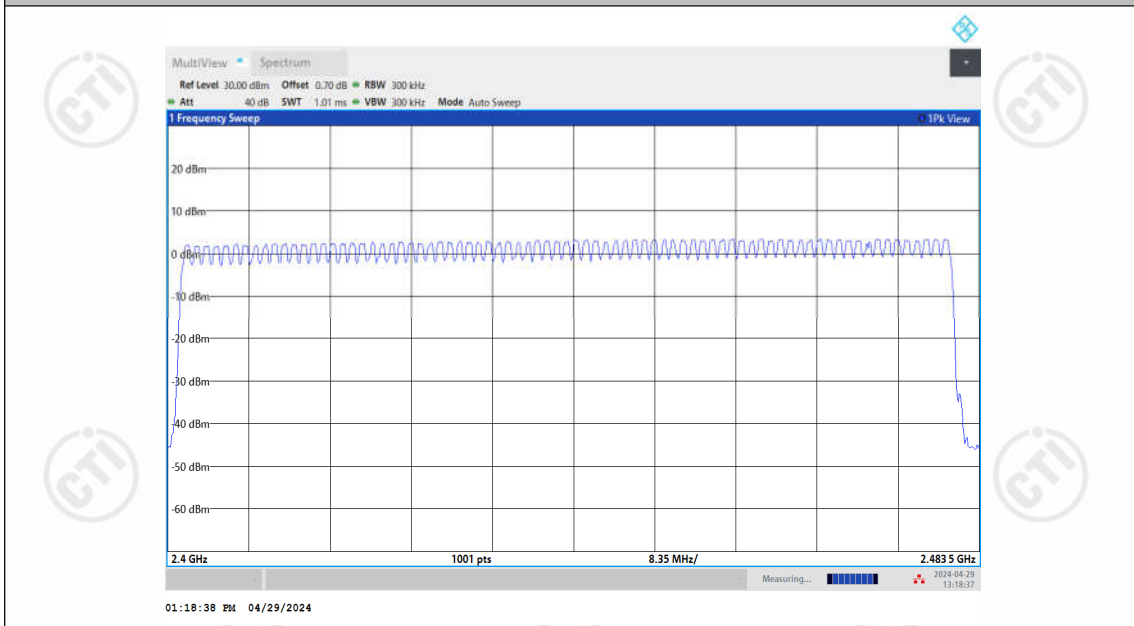
Appendix F: Number of hopping channels**Test Result**

Test Mode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

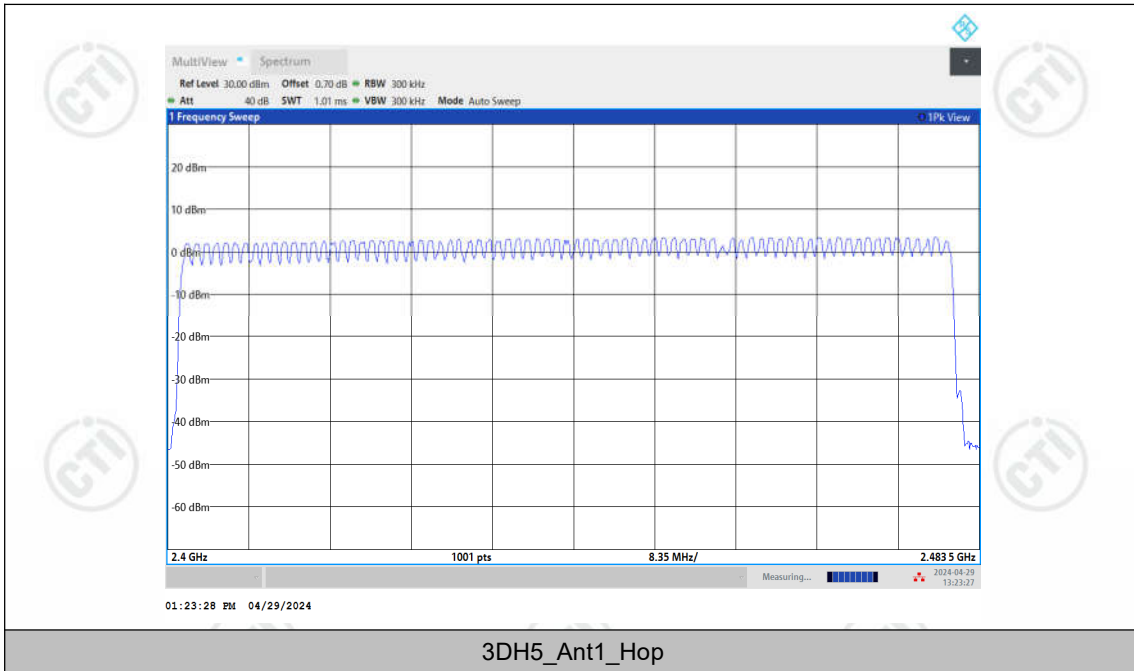
Test Graphs



DH5_Ant1_Hop



2DH5_Ant1_Hop



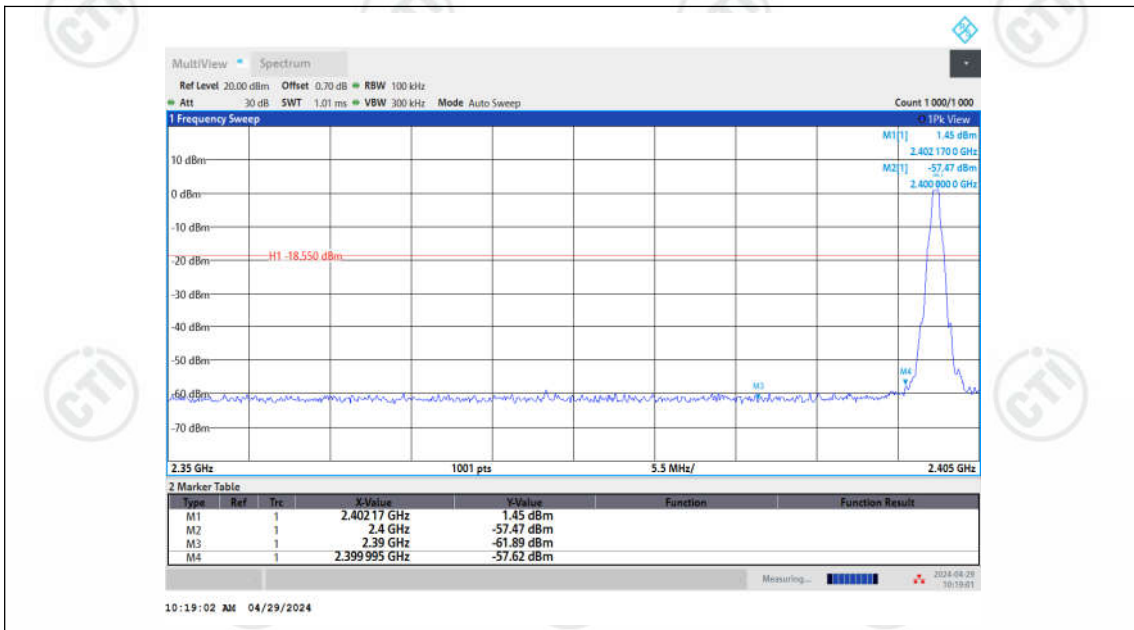
3DH5_Ant1_Hop

Appendix G: Band edge measurements

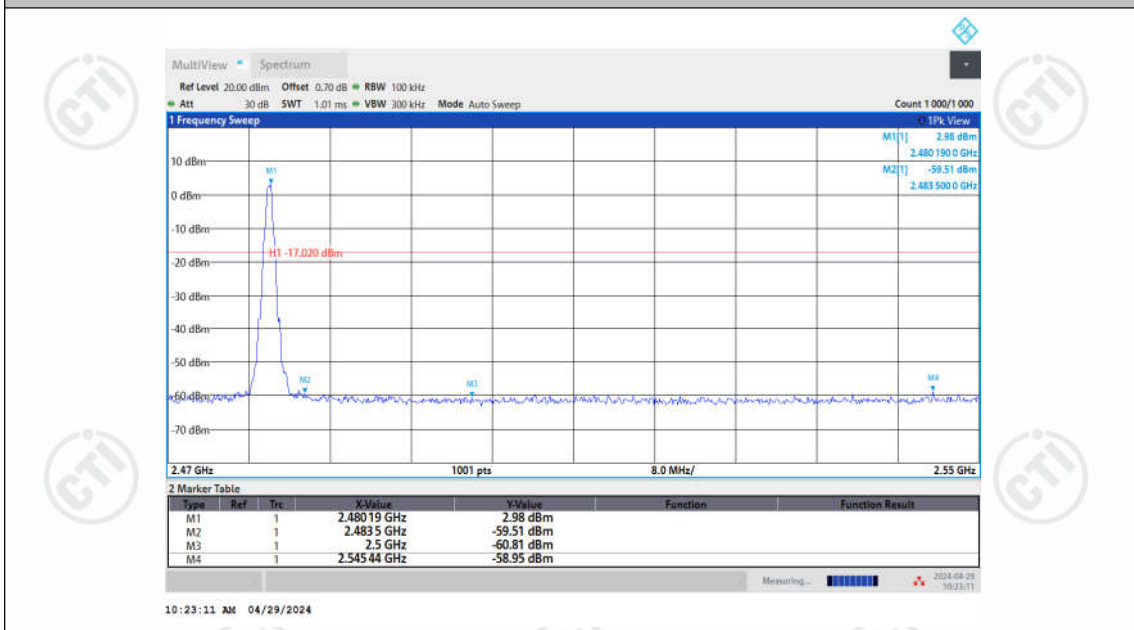
Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.45	-57.62	≤-18.55	PASS
		High	2480	2.98	-58.95	≤-17.02	PASS
		Low	Hop_2402	0.83	-59.95	≤-19.17	PASS
		High	Hop_2480	2.83	-59.03	≤-17.17	PASS
2DH5	Ant1	Low	2402	1.22	-58.49	≤-18.78	PASS
		High	2480	2.93	-58.99	≤-17.07	PASS
		Low	Hop_2402	1.27	-58.92	≤-18.73	PASS
		High	Hop_2480	2.93	-48.81	≤-17.07	PASS
3DH5	Ant1	Low	2402	1.41	-58.83	≤-18.59	PASS
		High	2480	3.08	-58.54	≤-16.92	PASS
		Low	Hop_2402	1.34	-58.32	≤-18.66	PASS
		High	Hop_2480	3.07	-58.33	≤-16.93	PASS

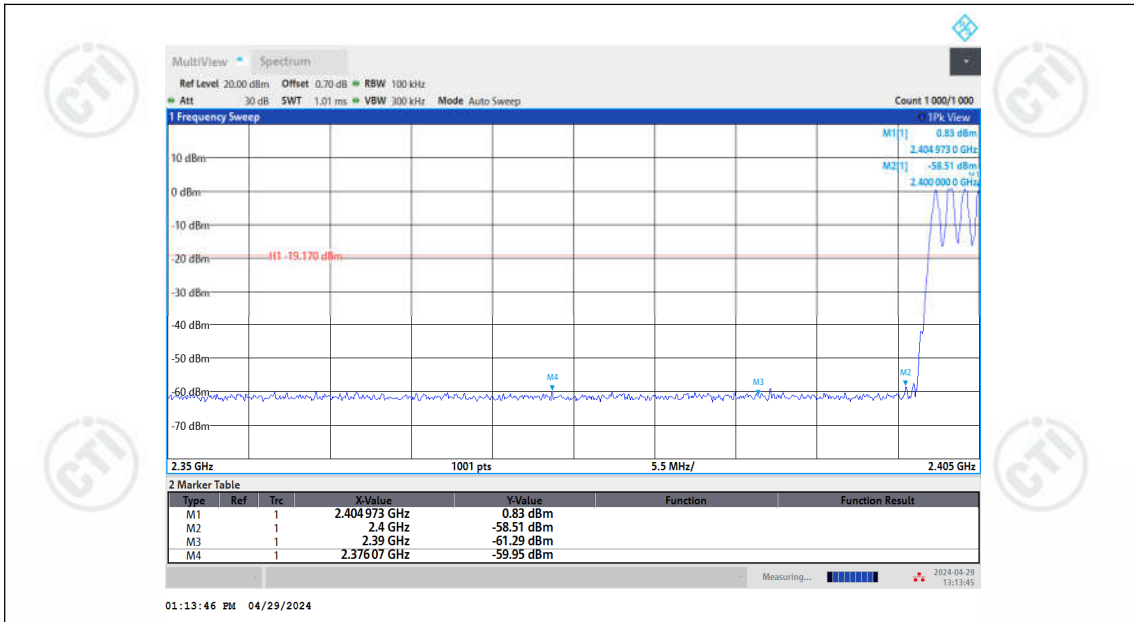
Test Graphs



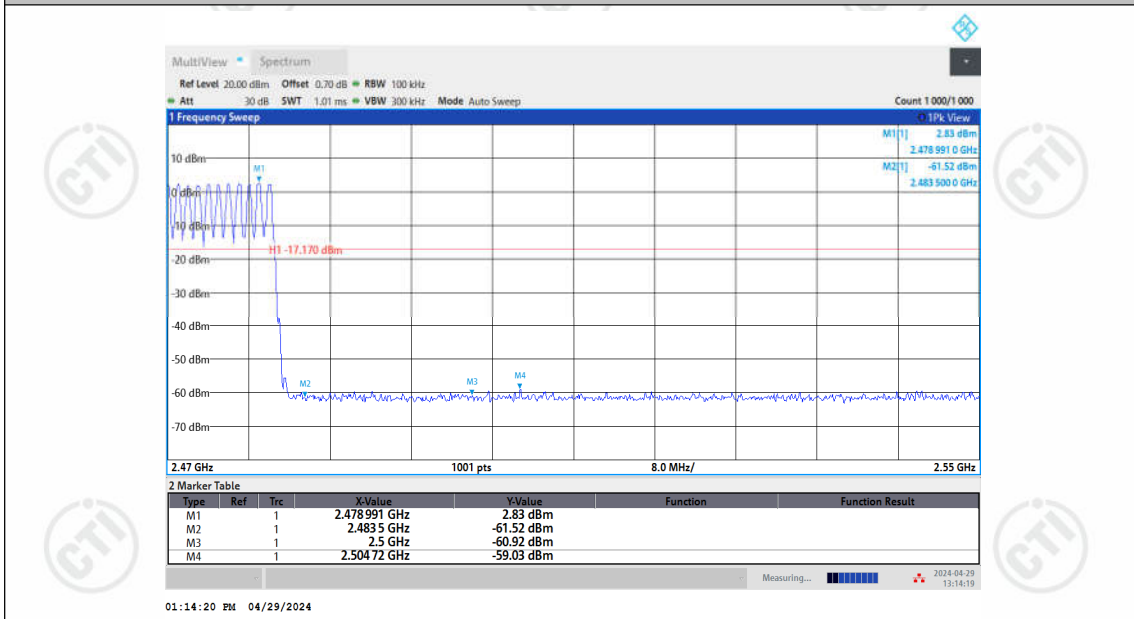
DH5_Ant1_Low_2402



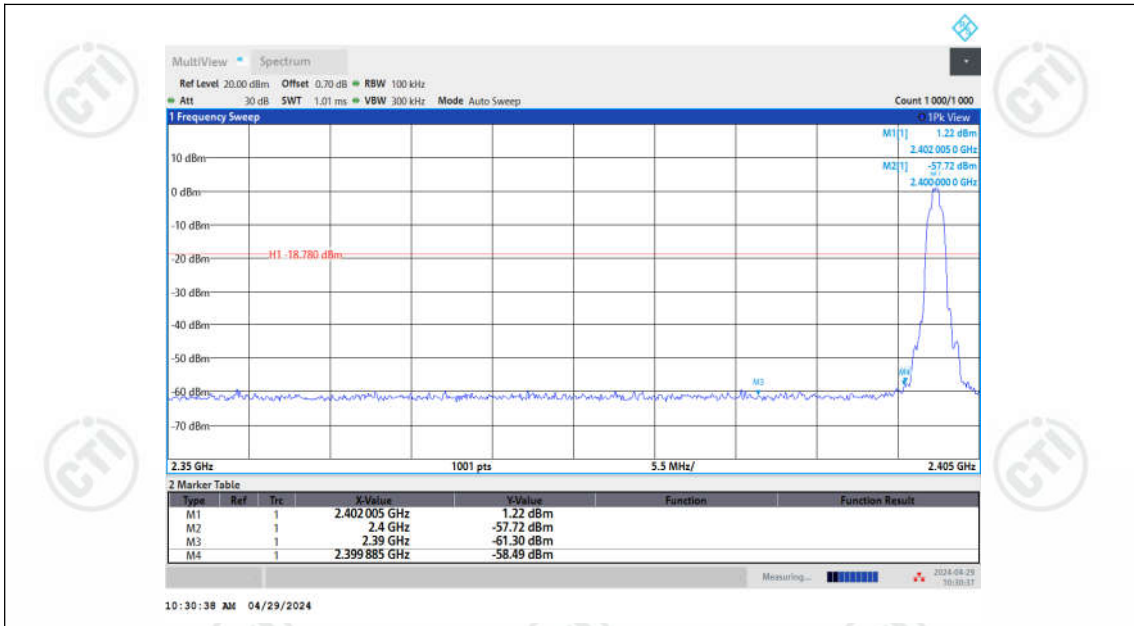
DH5_Ant1_High_2480



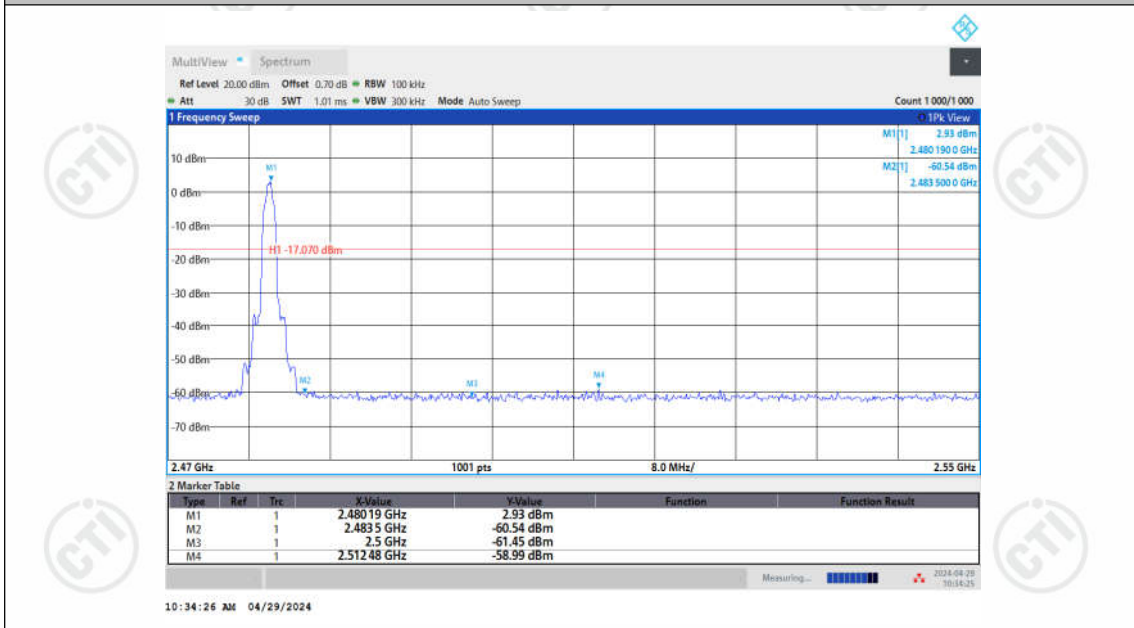
DH5_Ant1_Low_Hop_2402



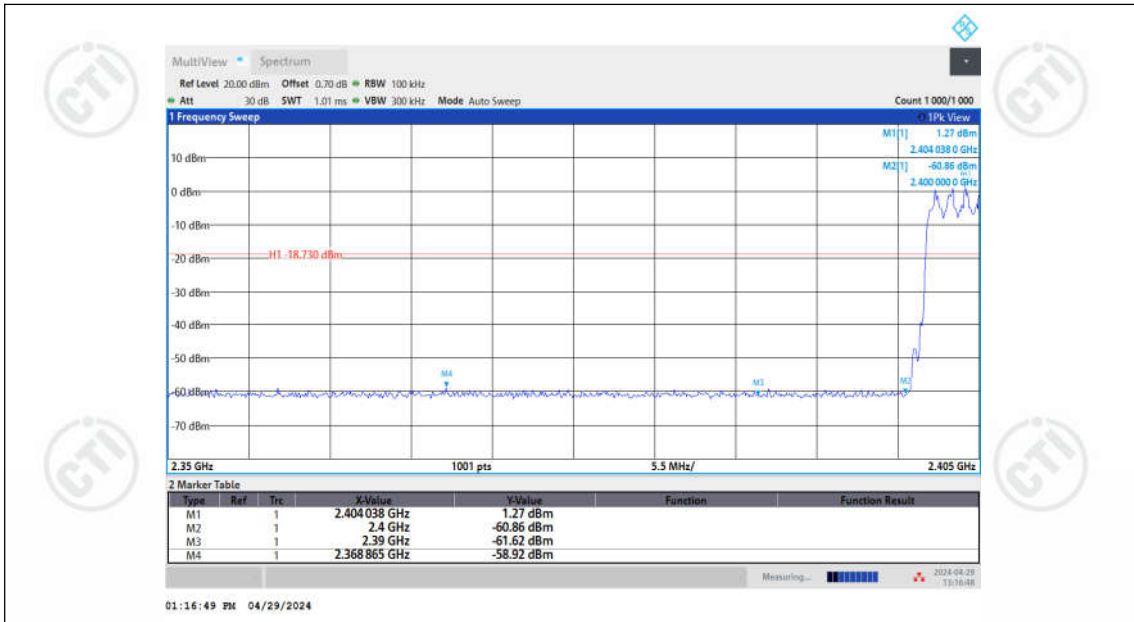
DH5_Ant1_High_Hop_2480



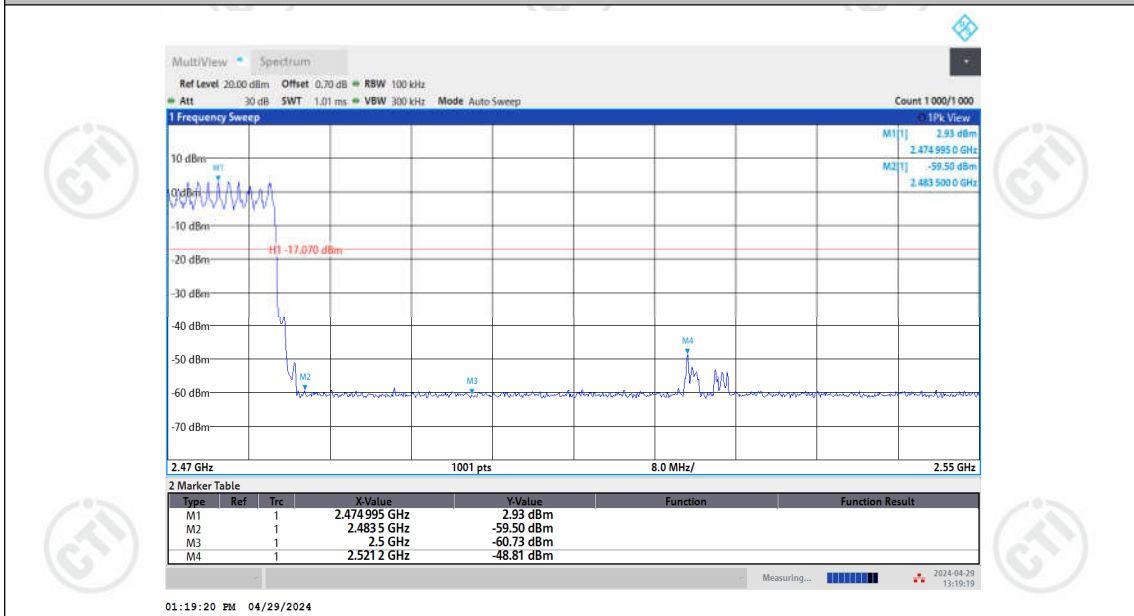
2DH5_Ant1_Low_2402



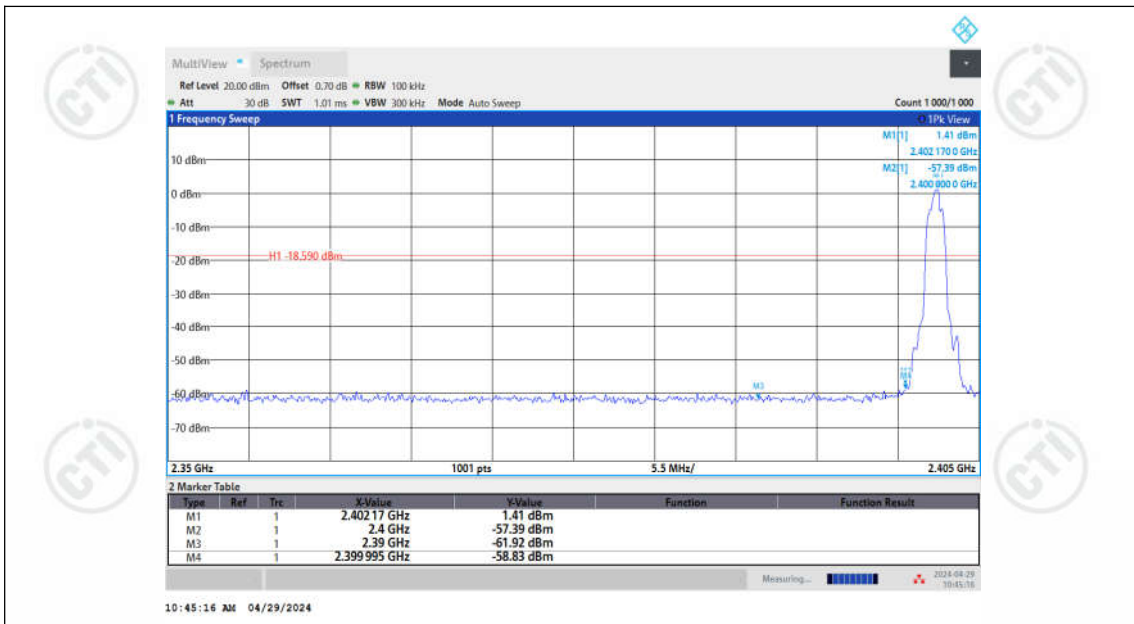
2DH5_Ant1_High_2480



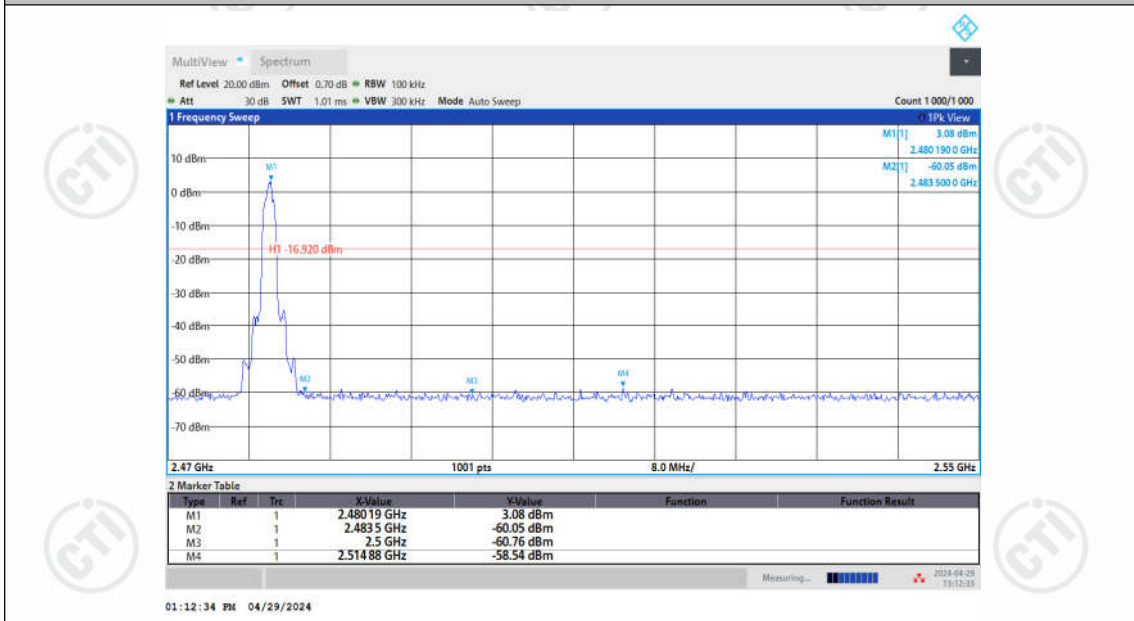
2DH5_Ant1_Low_Hop_2402



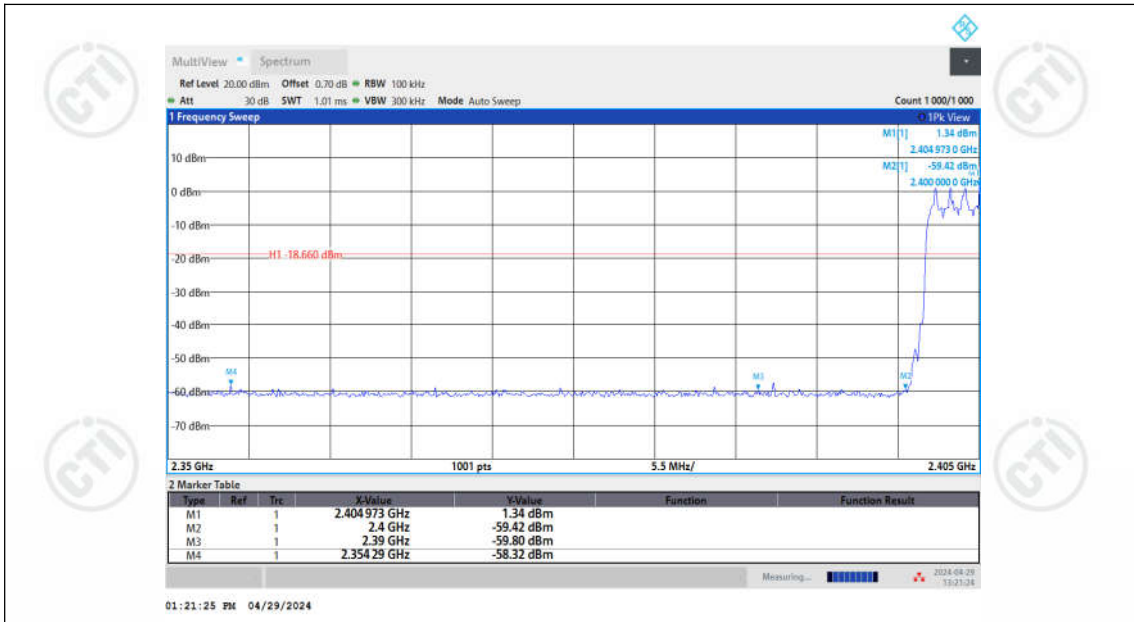
2DH5_Ant1_High_Hop_2480



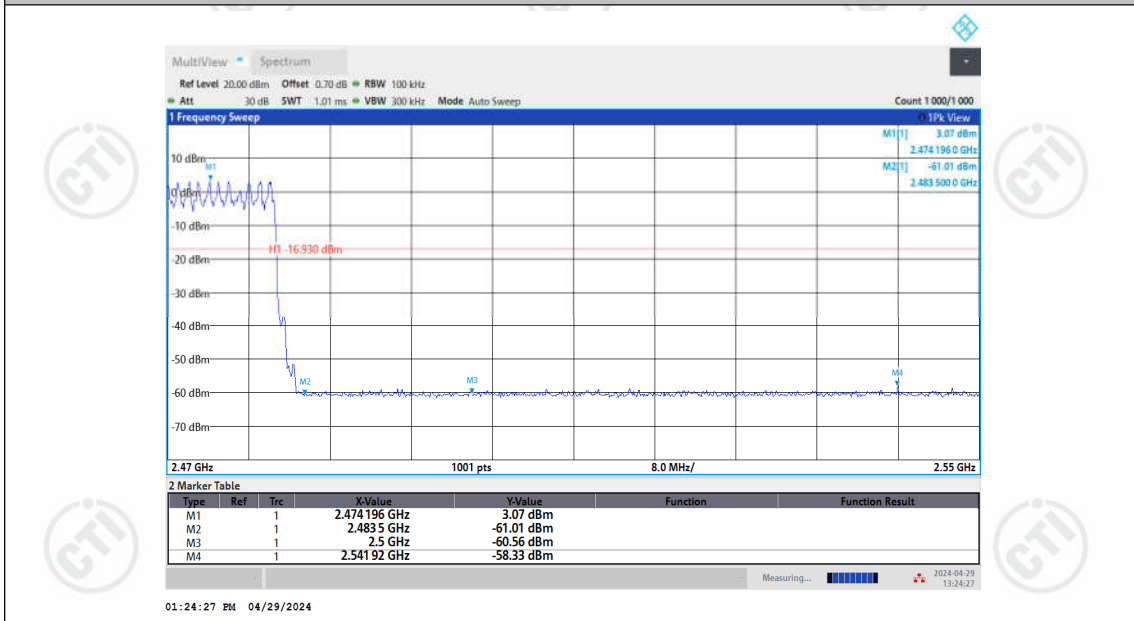
3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



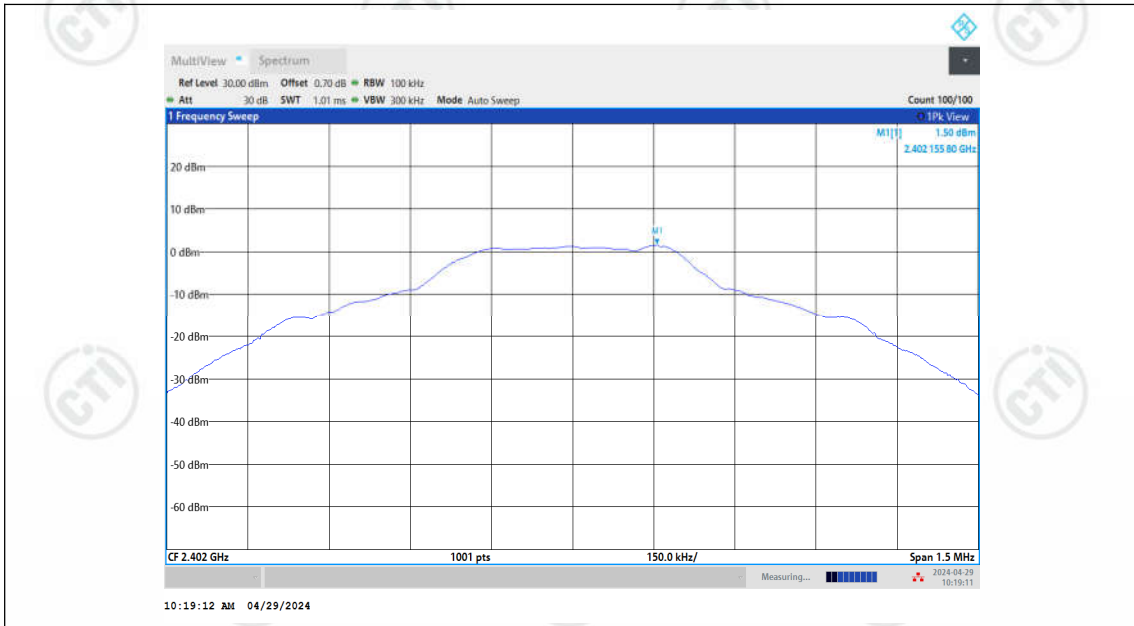
3DH5_Ant1_High_Hop_2480

Appendix H: Conducted Spurious Emission

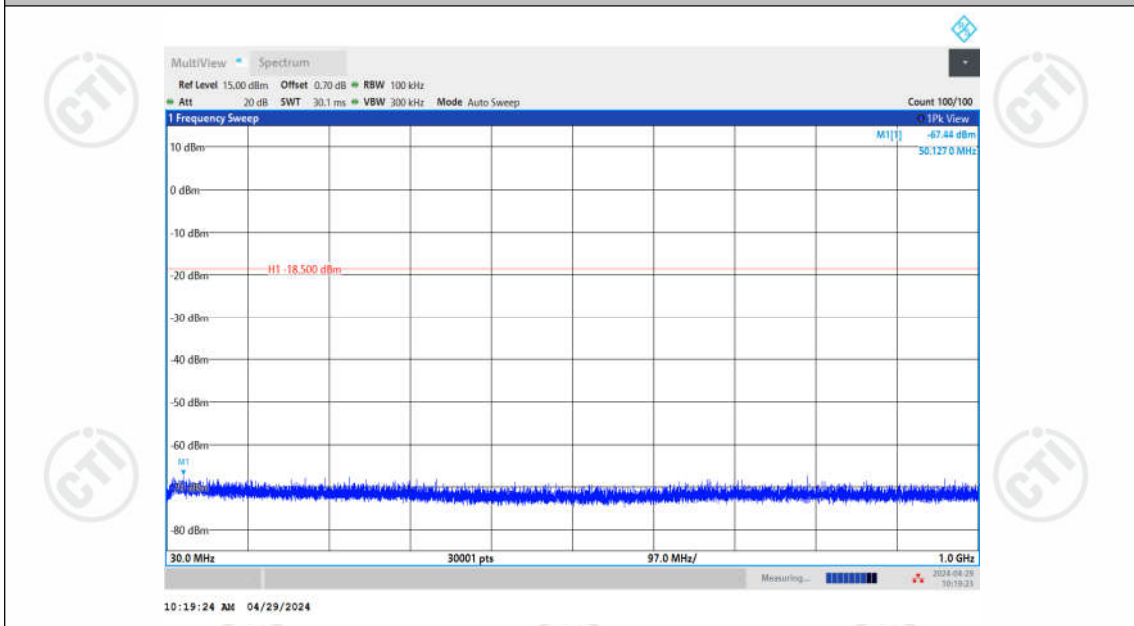
Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.50	1.50	---	PASS
			30~1000	1.50	-67.44	≤-18.5	PASS
			1000~26500	1.50	-60.29	≤-18.5	PASS
		2441	Reference	2.75	2.75	---	PASS
			30~1000	2.75	-66.79	≤-17.25	PASS
			1000~26500	2.75	-59.99	≤-17.25	PASS
		2480	Reference	3.11	3.11	---	PASS
			30~1000	3.11	-67.33	≤-16.89	PASS
			1000~26500	3.11	-59.9	≤-16.89	PASS
2DH5	Ant1	2402	Reference	1.33	1.33	---	PASS
			30~1000	1.33	-67.57	≤-18.67	PASS
			1000~26500	1.33	-59.66	≤-18.67	PASS
		2441	Reference	2.61	2.61	---	PASS
			30~1000	2.61	-67.24	≤-17.39	PASS
			1000~26500	2.61	-59.65	≤-17.39	PASS
		2480	Reference	3.00	3.00	---	PASS
			30~1000	3.00	-67.13	≤-17	PASS
			1000~26500	3.00	-59.93	≤-17	PASS
3DH5	Ant1	2402	Reference	1.52	1.52	---	PASS
			30~1000	1.52	-65.77	≤-18.48	PASS
			1000~26500	1.52	-59.45	≤-18.48	PASS
		2441	Reference	2.77	2.77	---	PASS
			30~1000	2.77	-65.98	≤-17.23	PASS
			1000~26500	2.77	-60.33	≤-17.23	PASS
		2480	Reference	3.15	3.15	---	PASS
			30~1000	3.15	-67.57	≤-16.85	PASS
			1000~26500	3.15	-56.35	≤-16.85	PASS

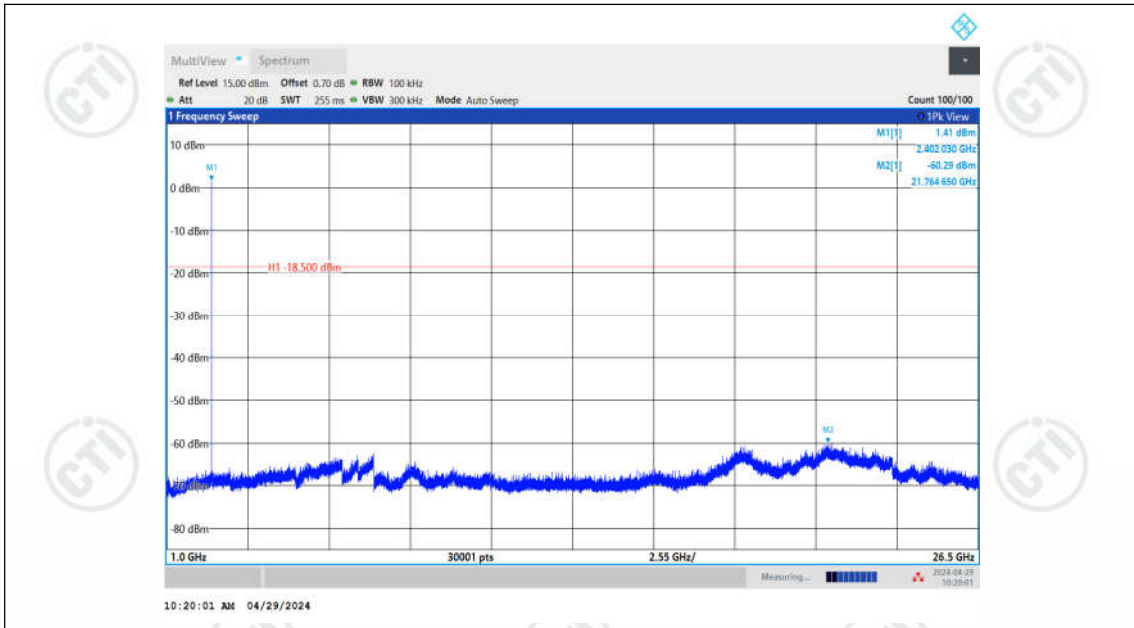
Test Graphs



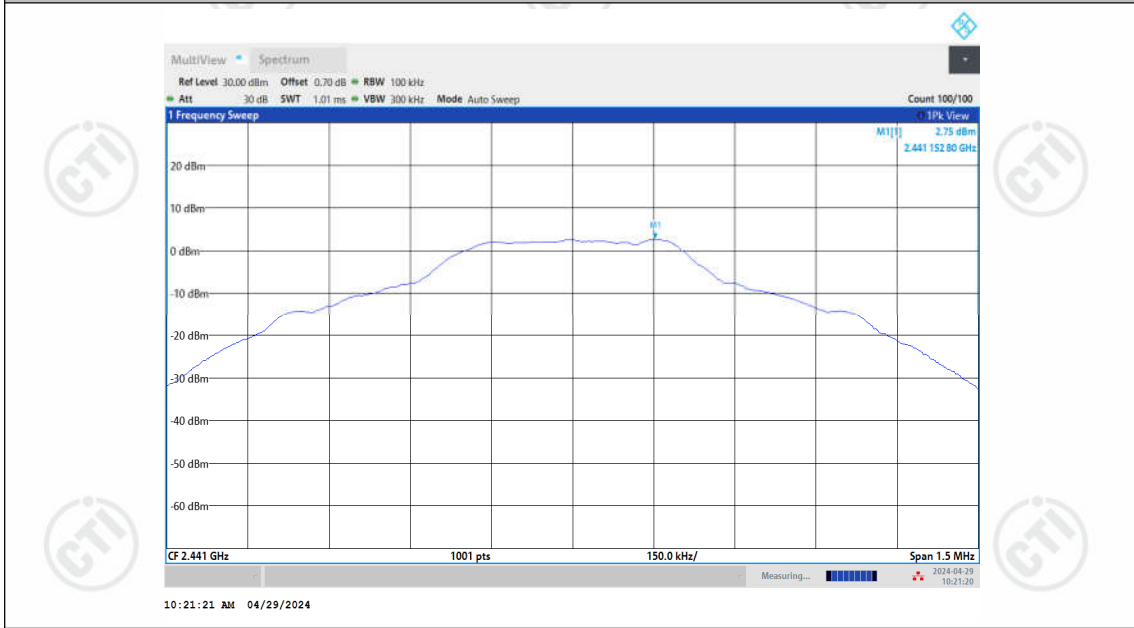
DH5_Ant1_2402_0~Reference



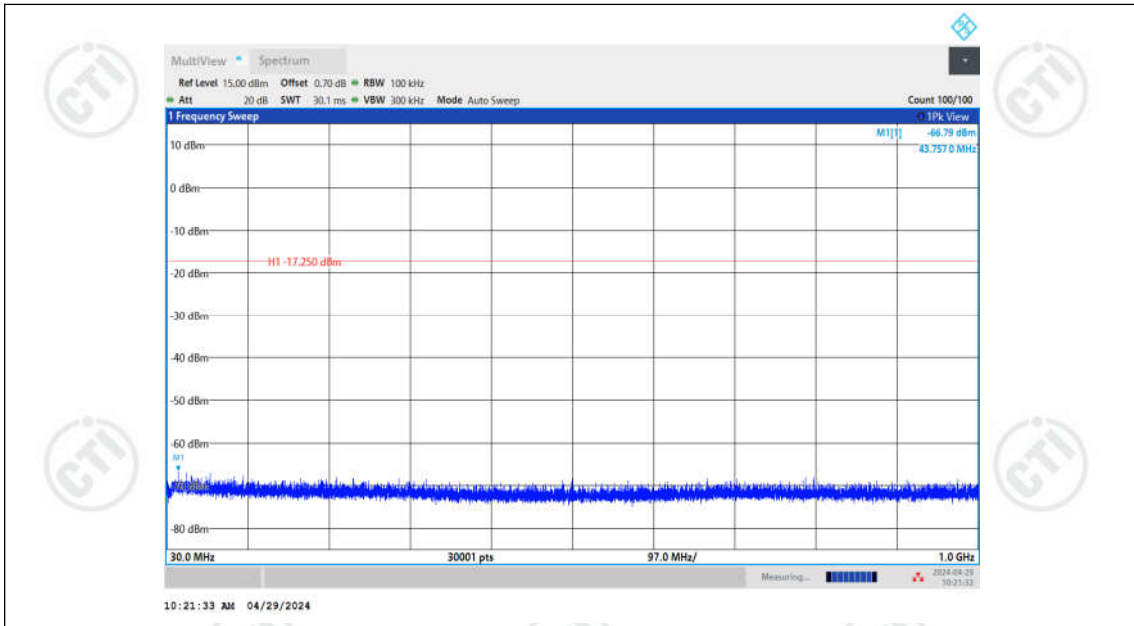
DH5_Ant1_2402_30~1000



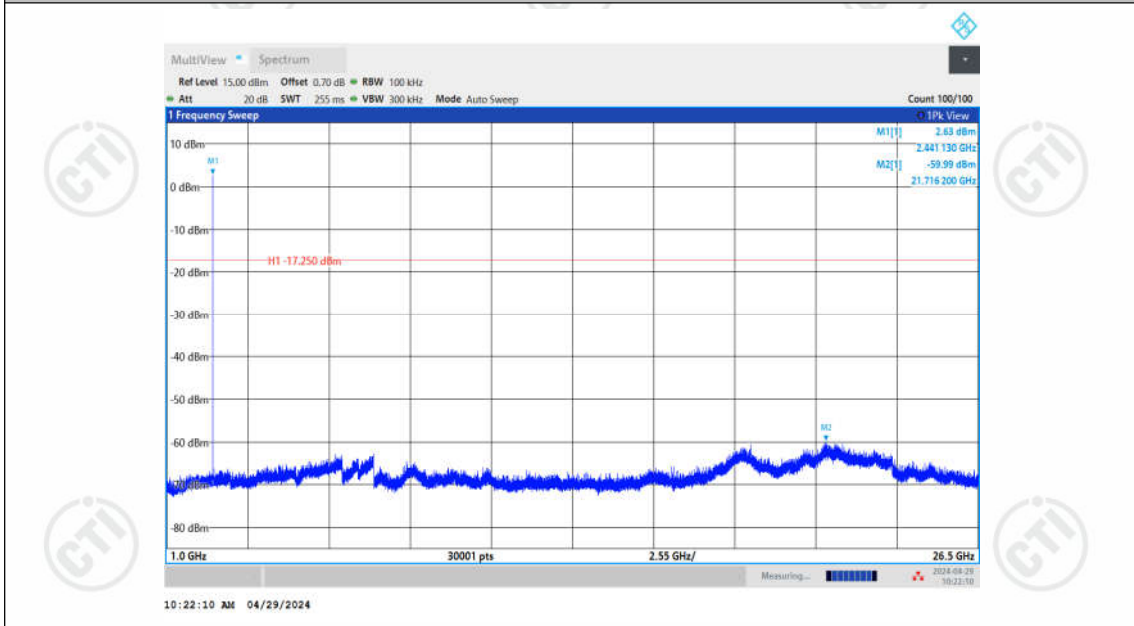
DH5_Ant1_2402_1000~26500



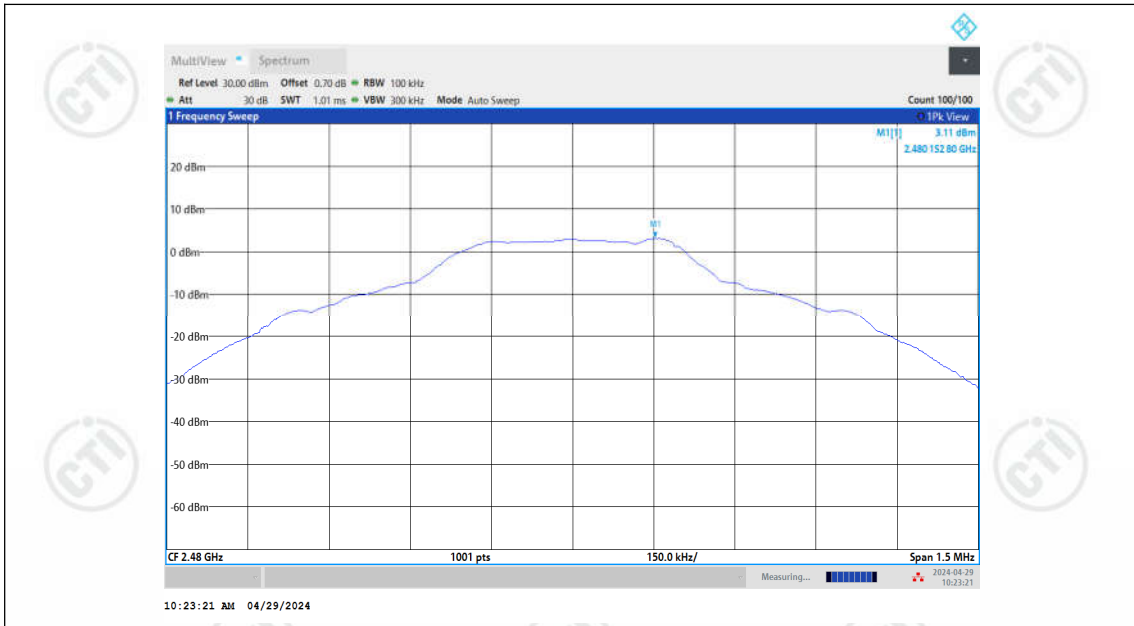
DH5_Ant1_2441_0~Reference



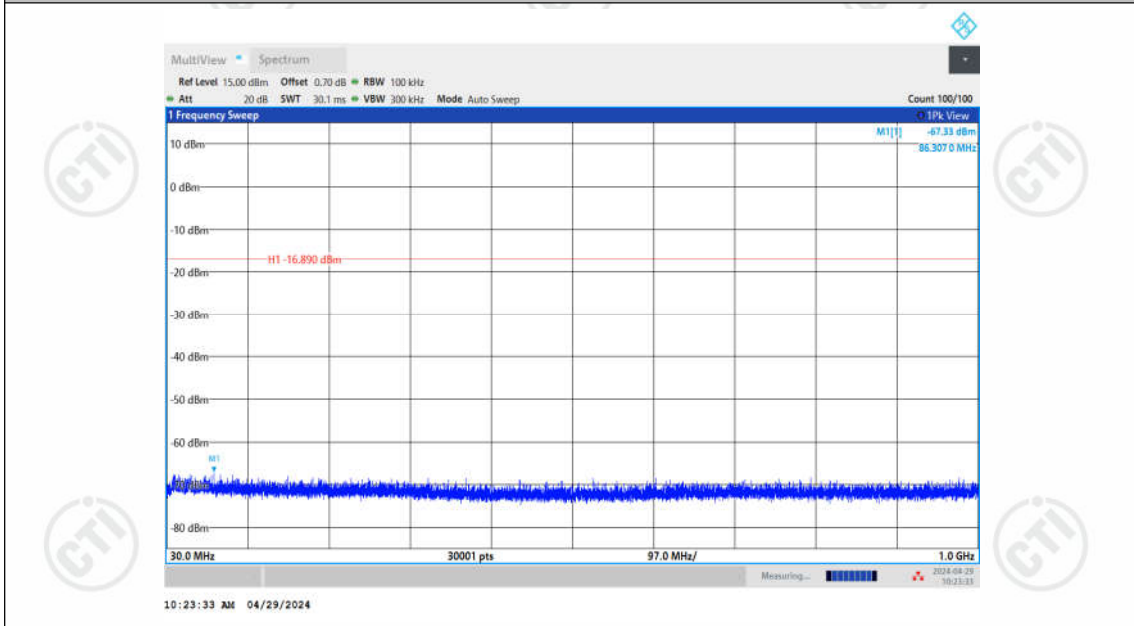
DH5_Ant1_2441_30~1000



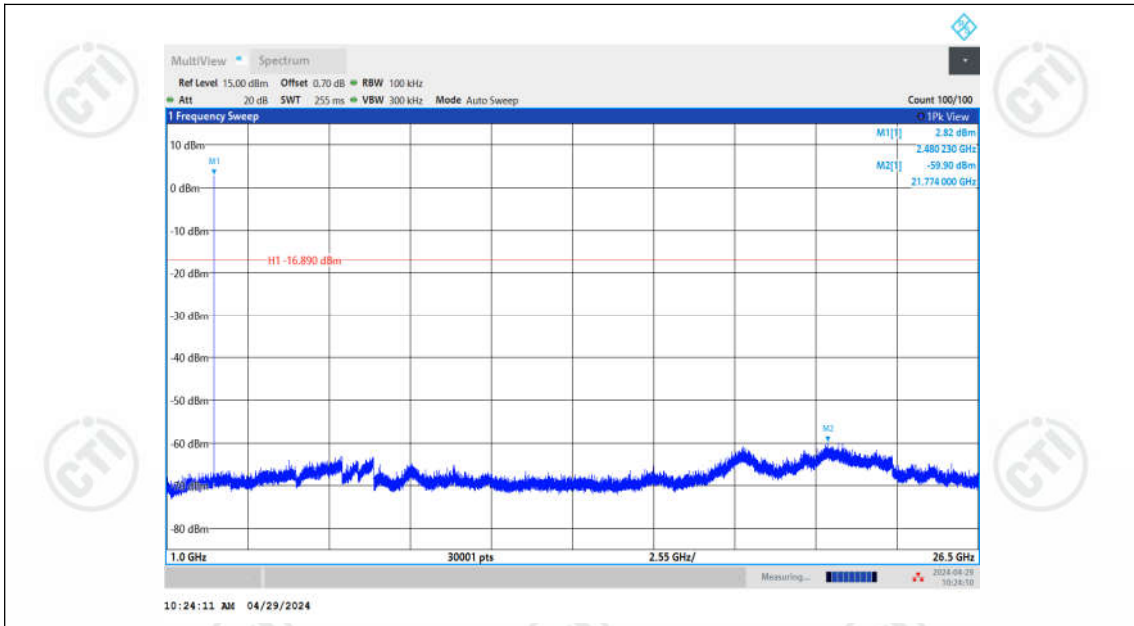
DH5_Ant1_2441_1000~26500



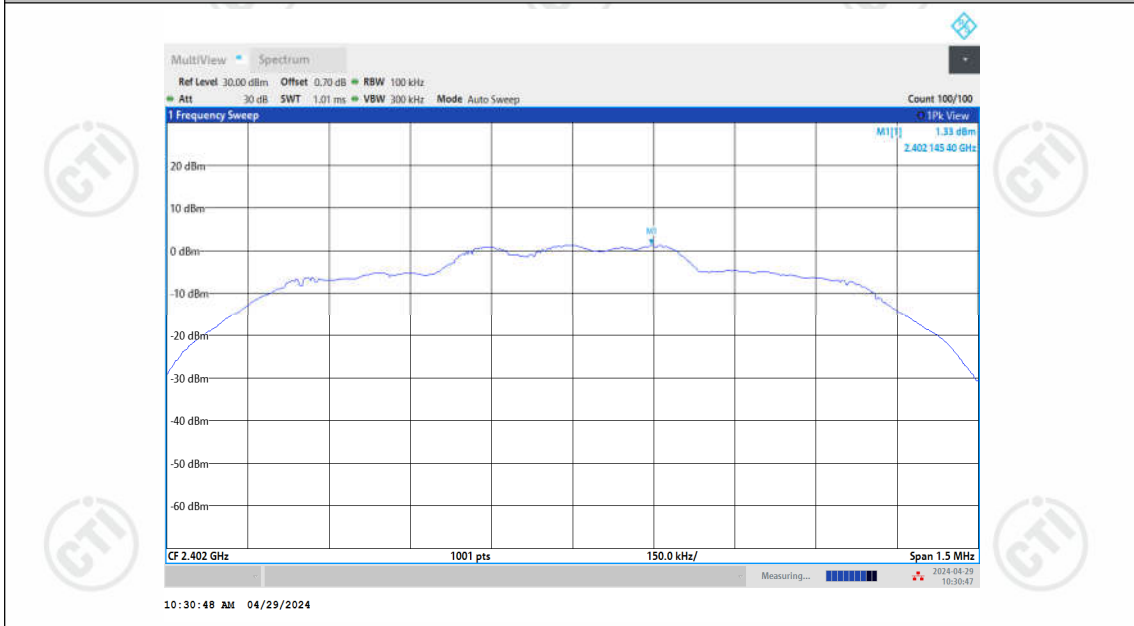
DH5_Ant1_2480_0~Reference



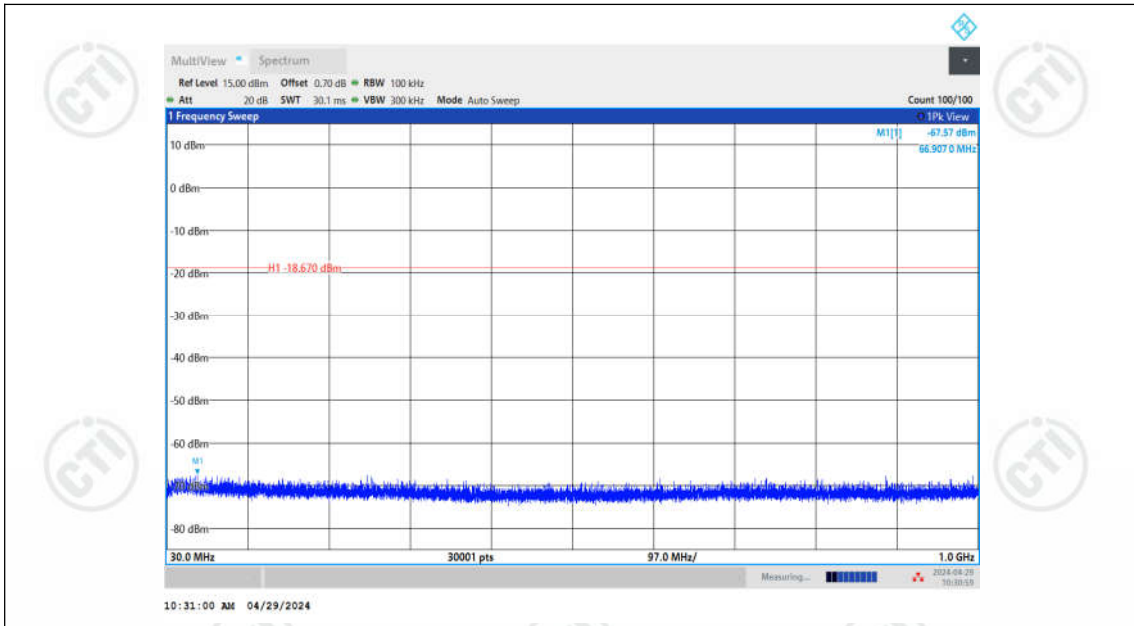
DH5_Ant1_2480_30~1000



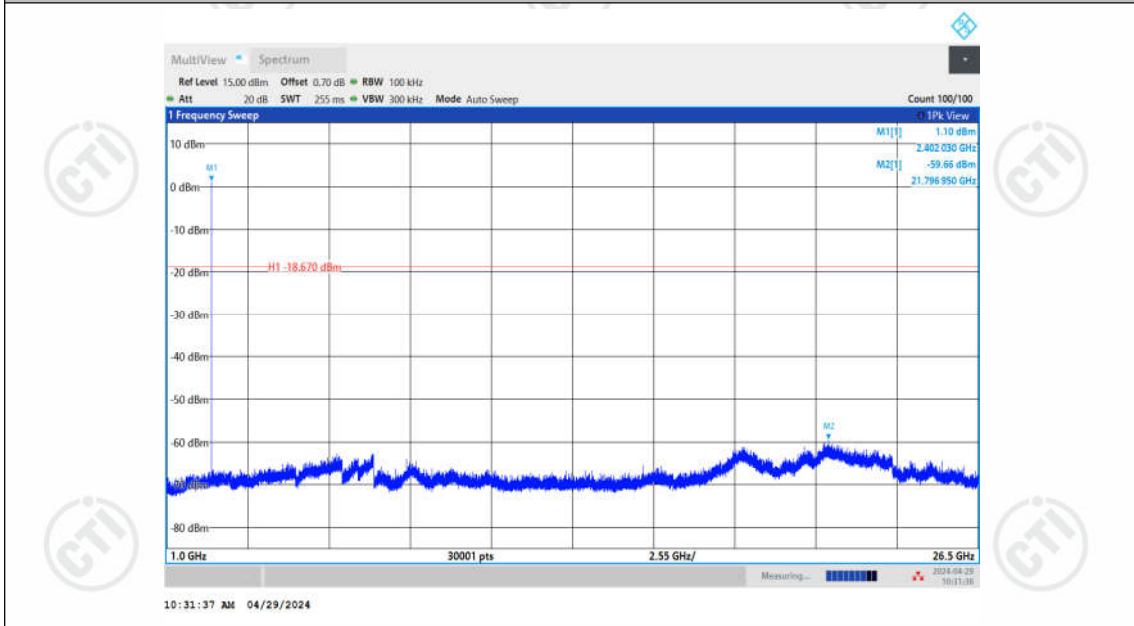
DH5_Ant1_2480_1000~26500



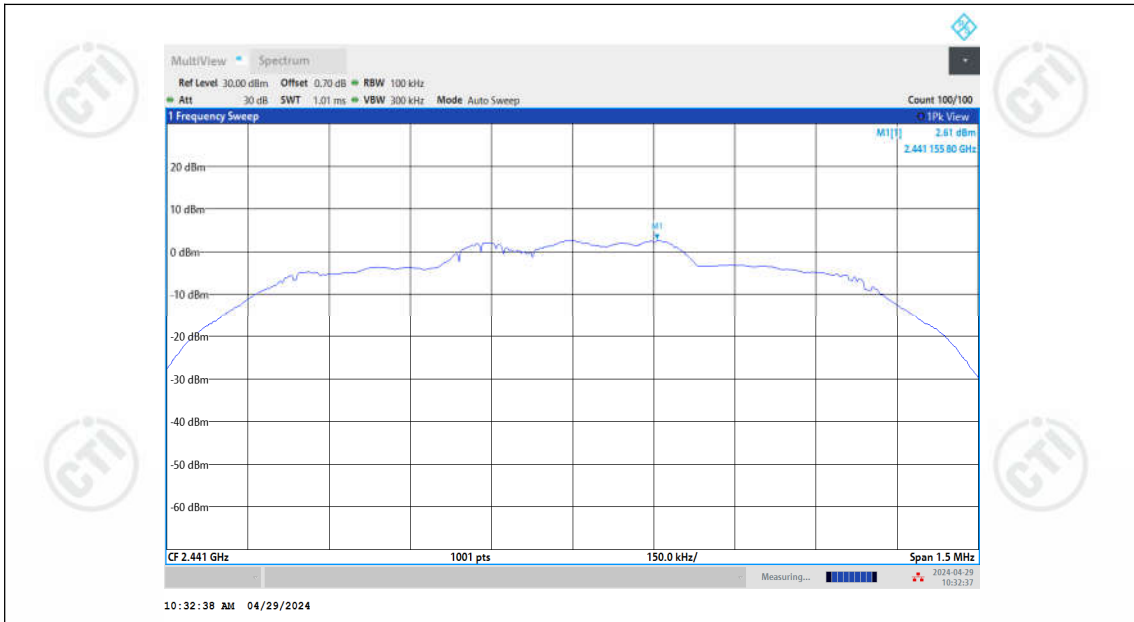
2DH5_Ant1_2402_0~Reference



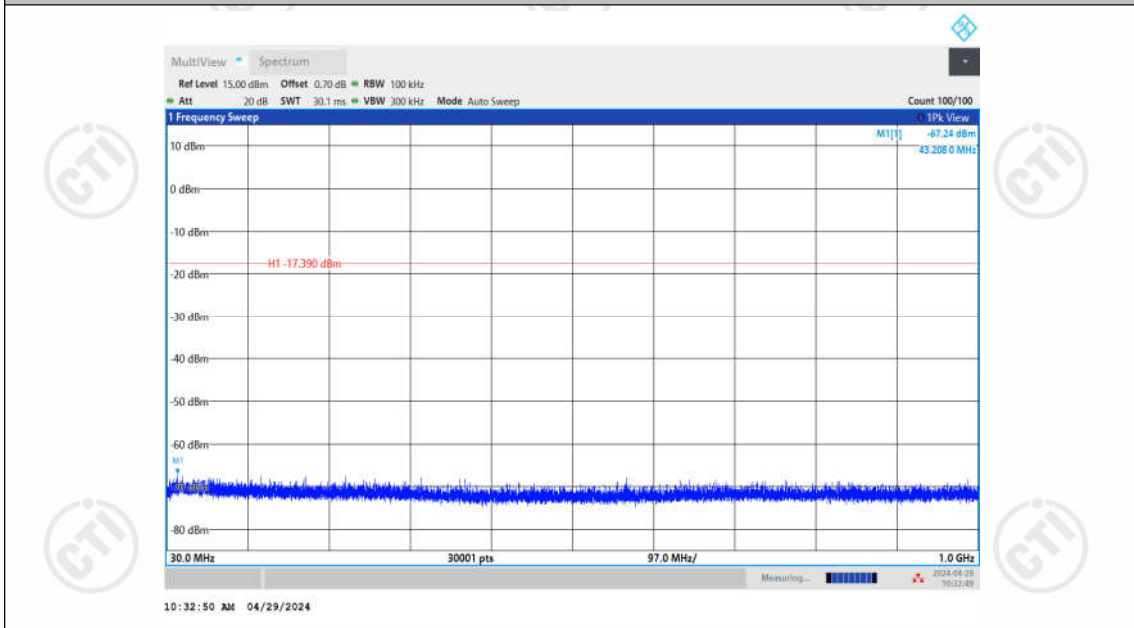
2DH5_Ant1_2402_30~1000



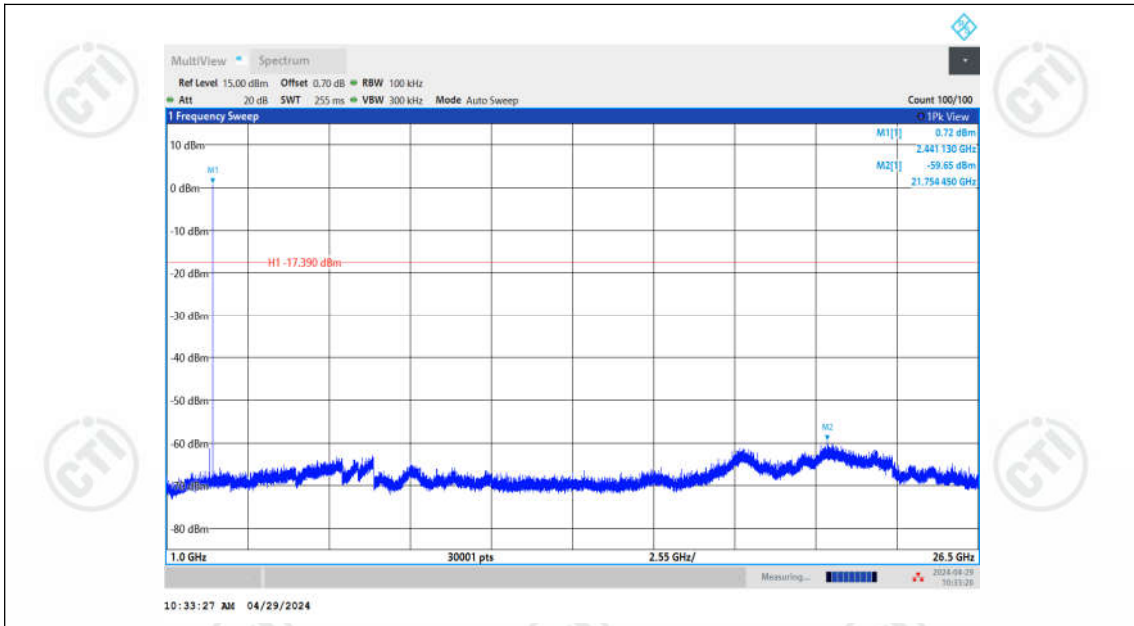
2DH5_Ant1_2402_1000~26500



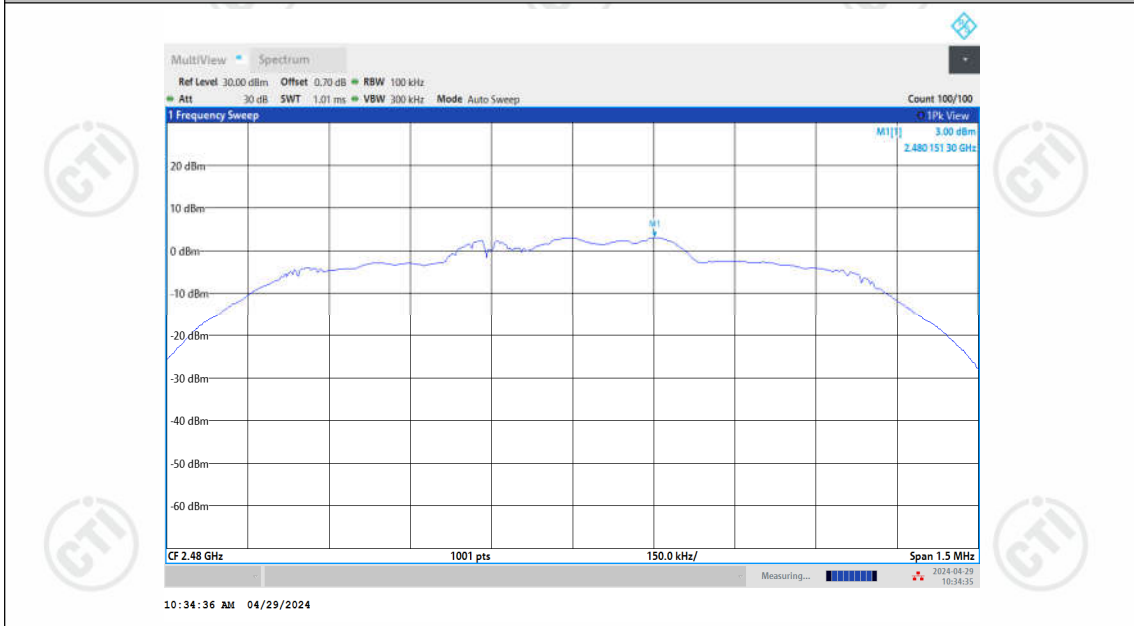
2DH5_Ant1_2441_0~Reference



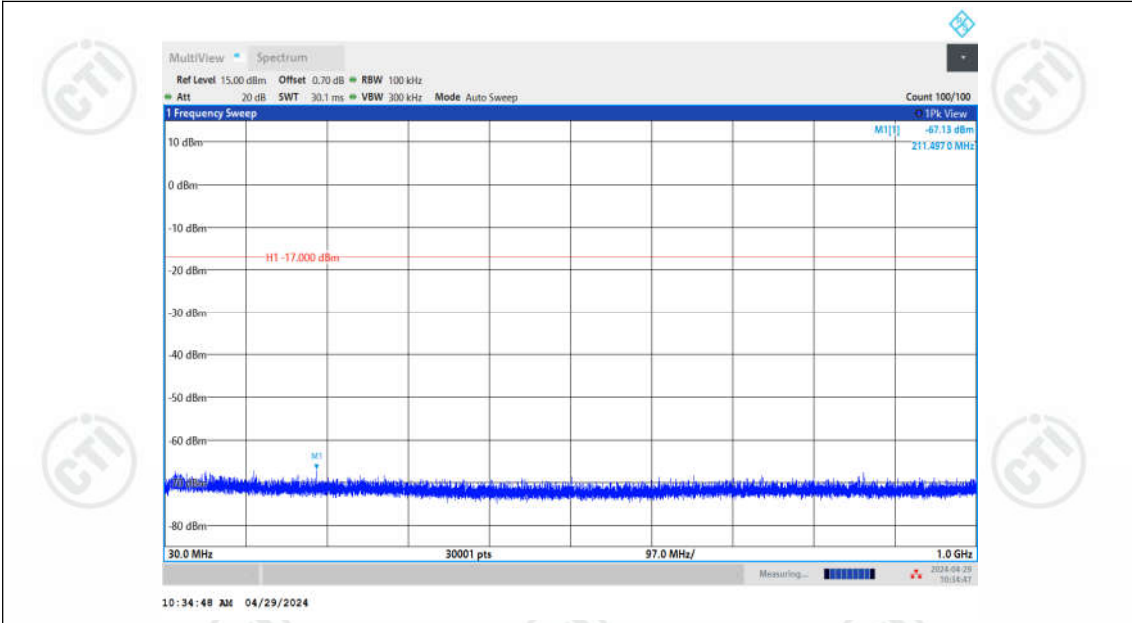
2DH5_Ant1_2441_30~1000



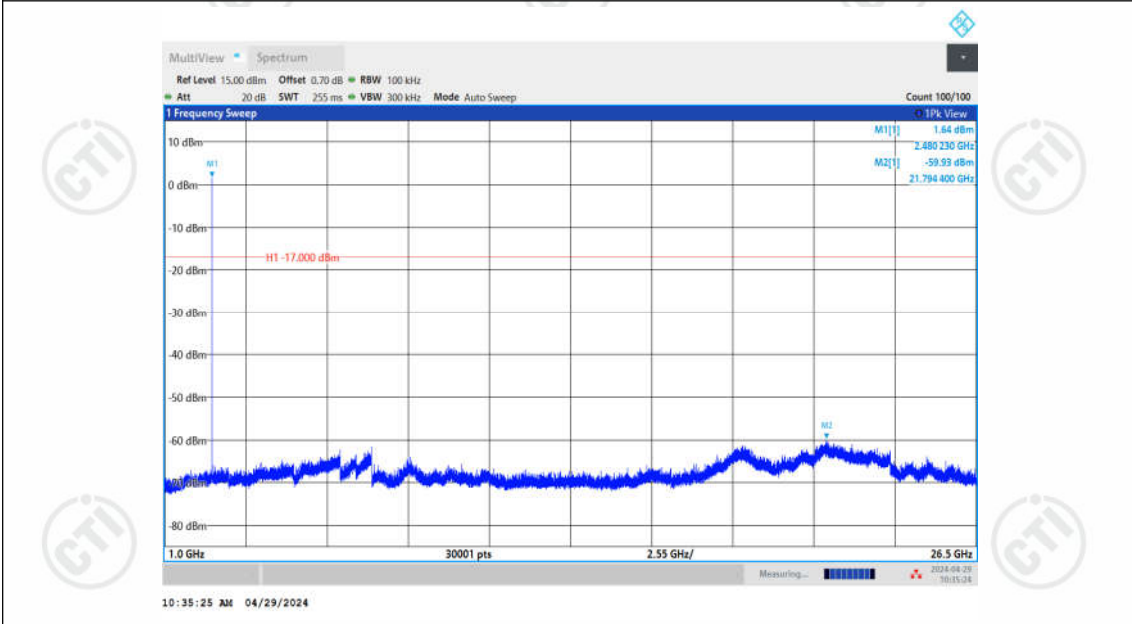
2DH5_Ant1_2441_1000~26500



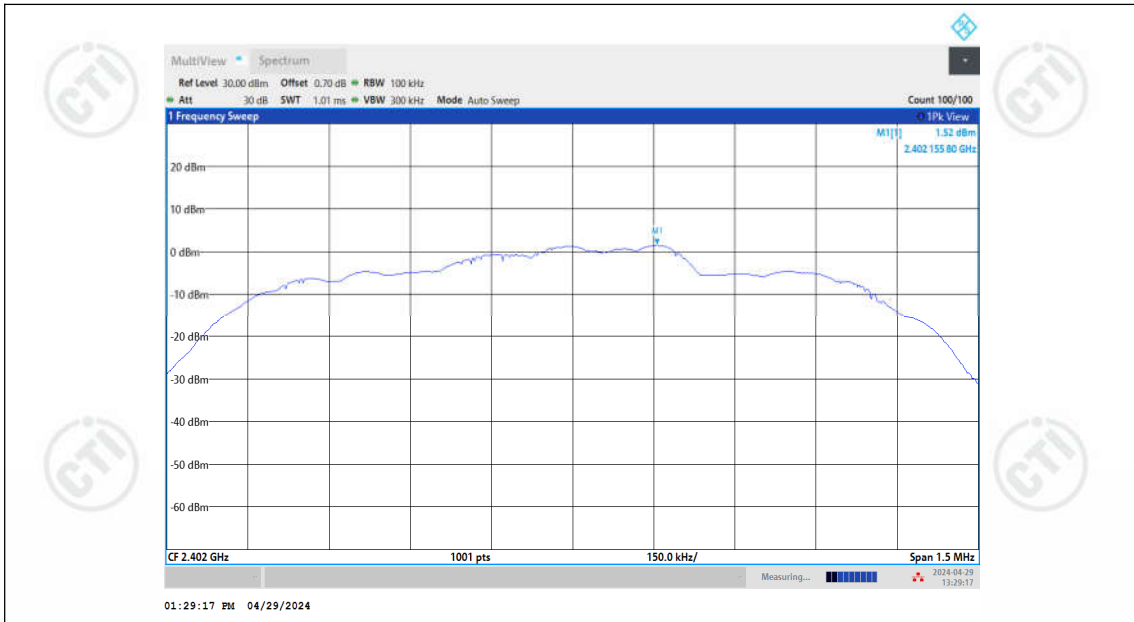
2DH5_Ant1_2480_0~Reference



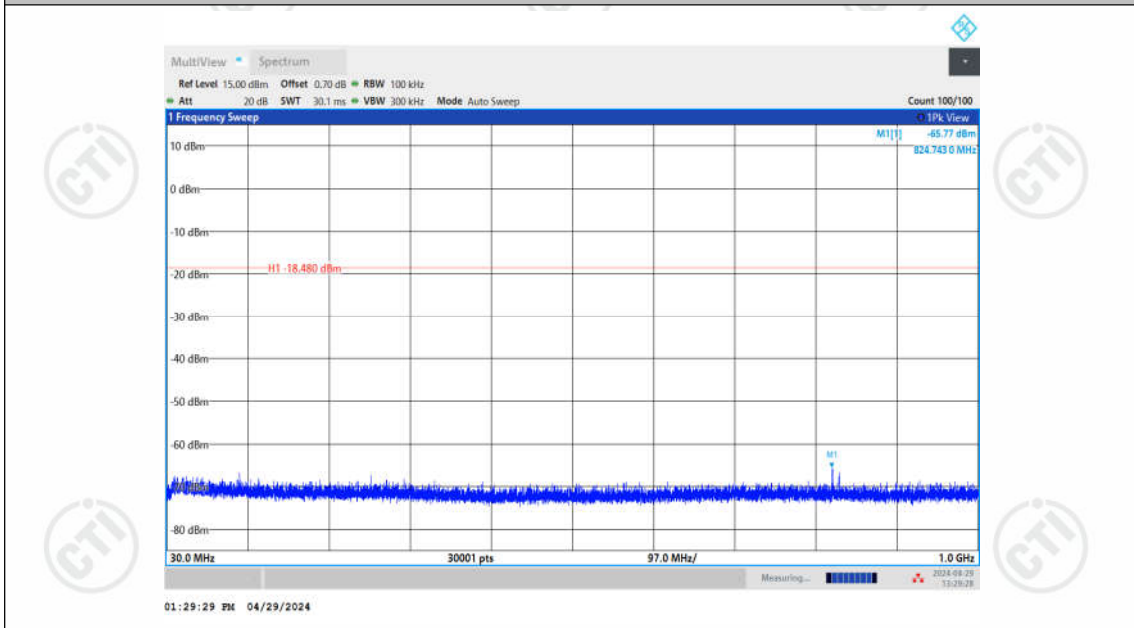
2DH5_Ant1_2480_30~1000



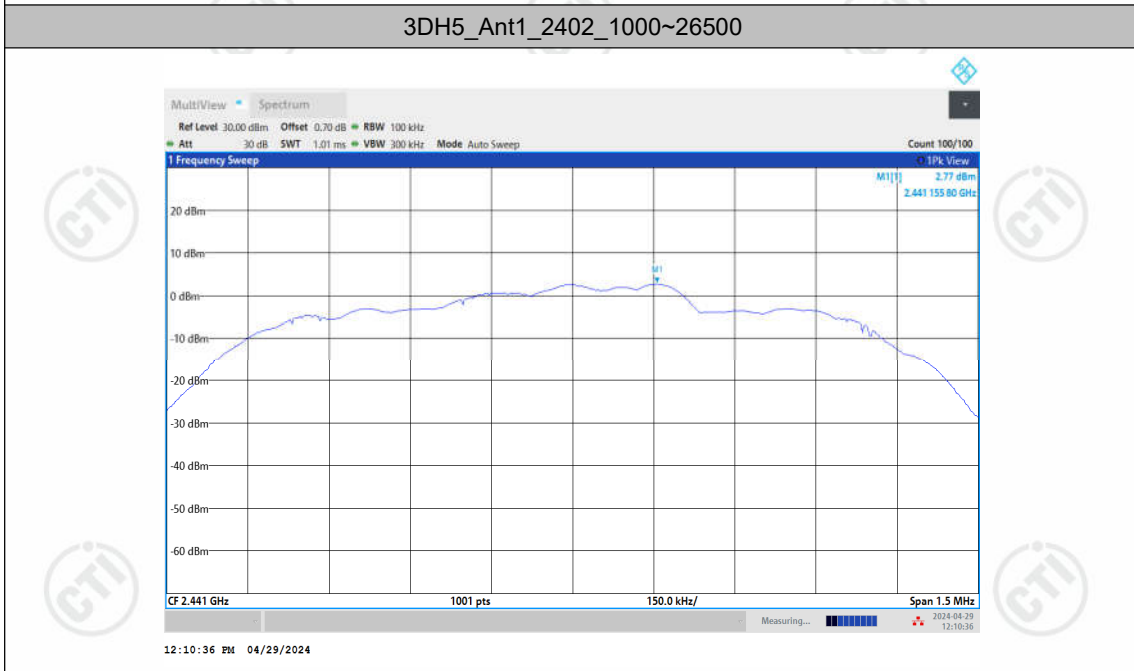
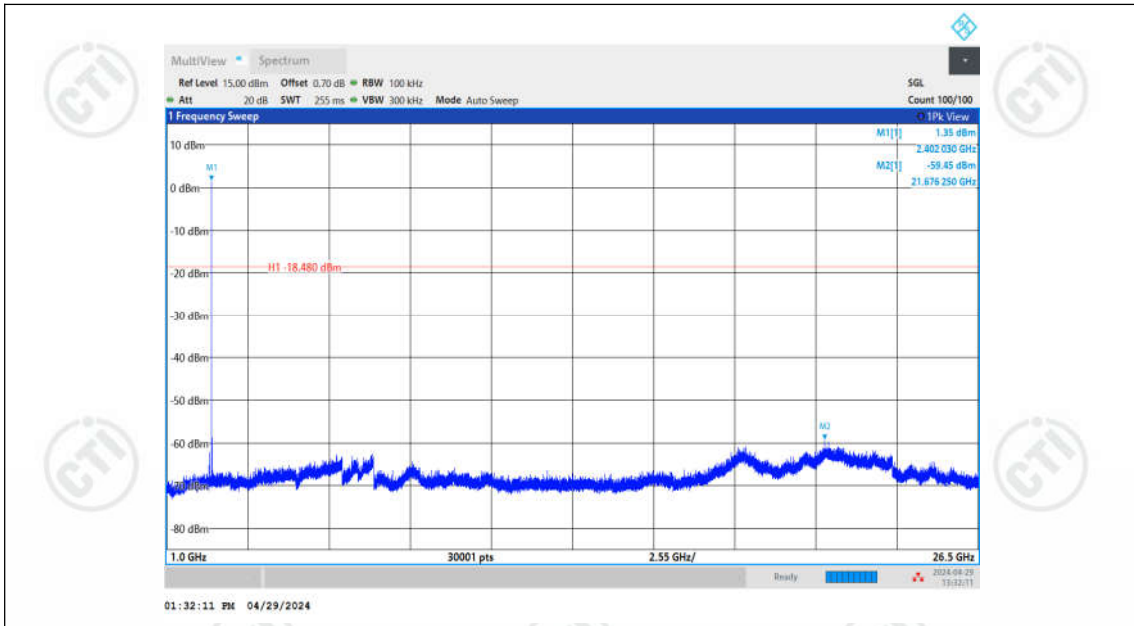
2DH5_Ant1_2480_1000~26500

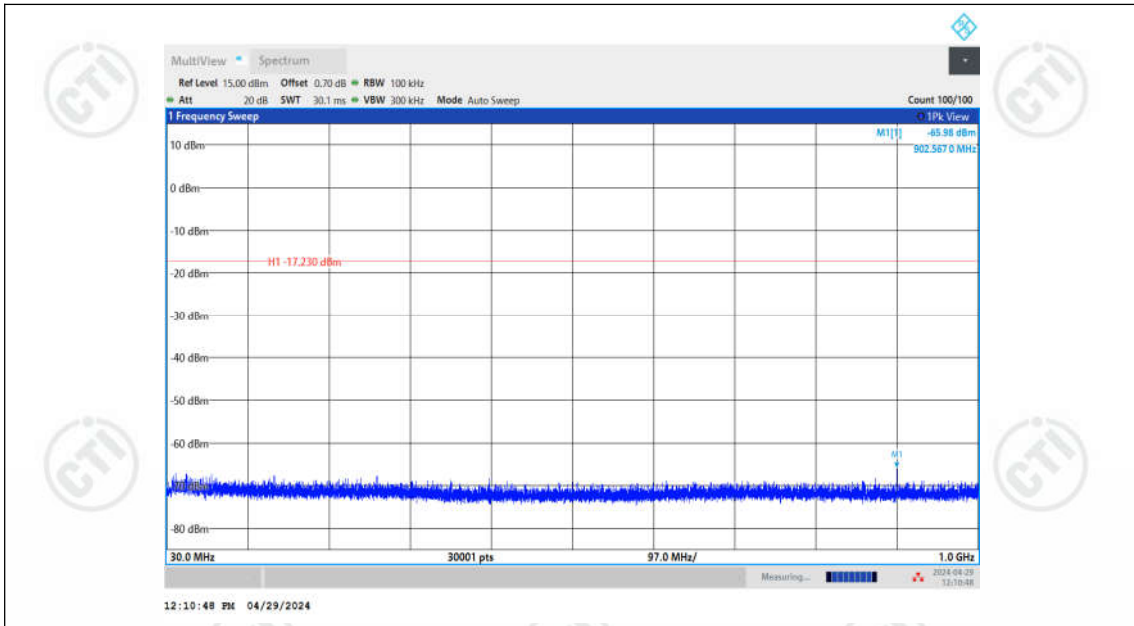


3DH5_Ant1_2402_0~Reference

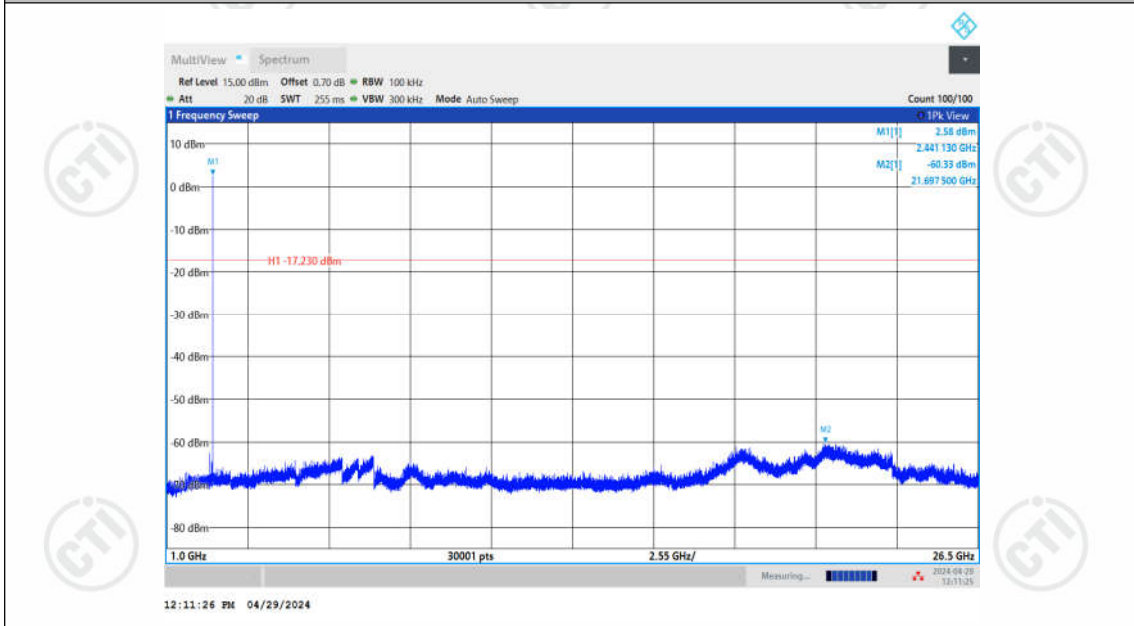


3DH5_Ant1_2402_30~1000

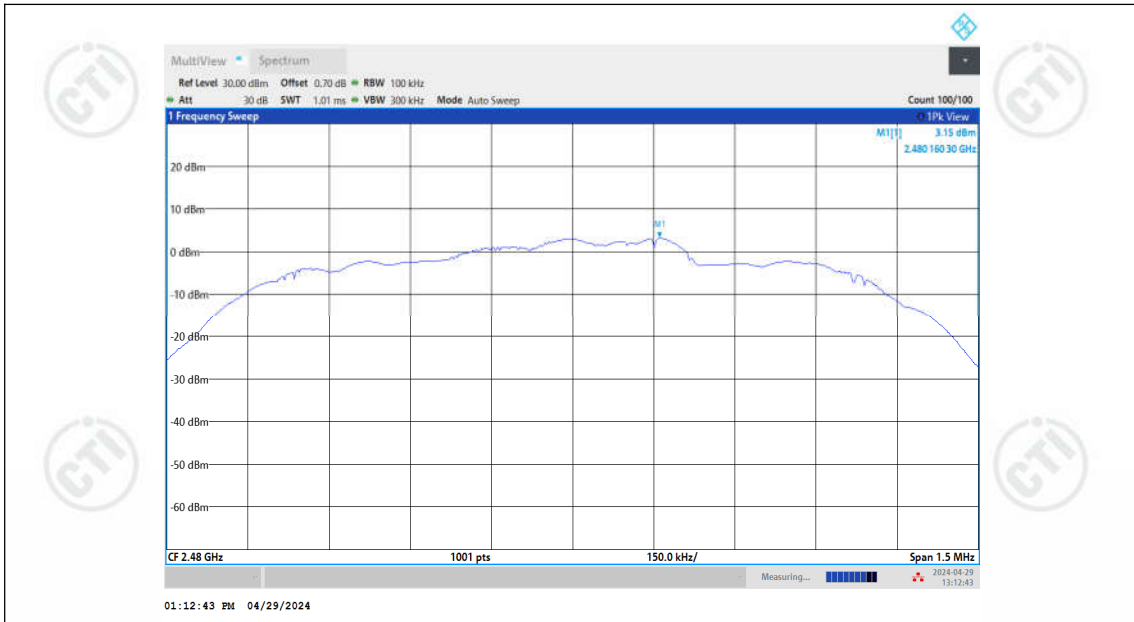




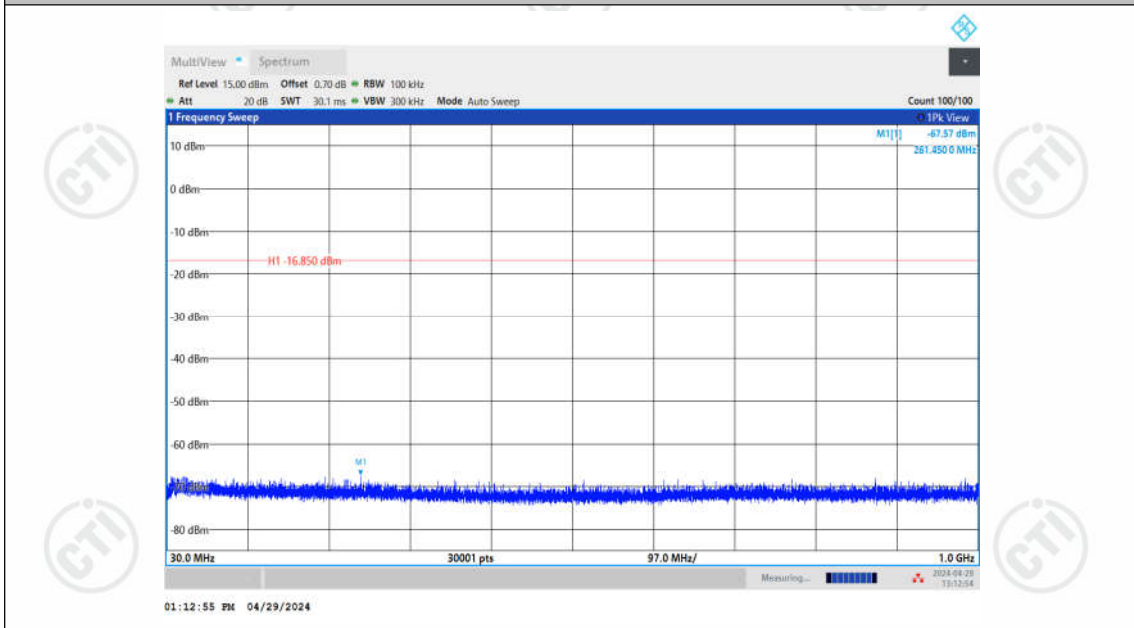
3DH5_Ant1_2441_30~1000



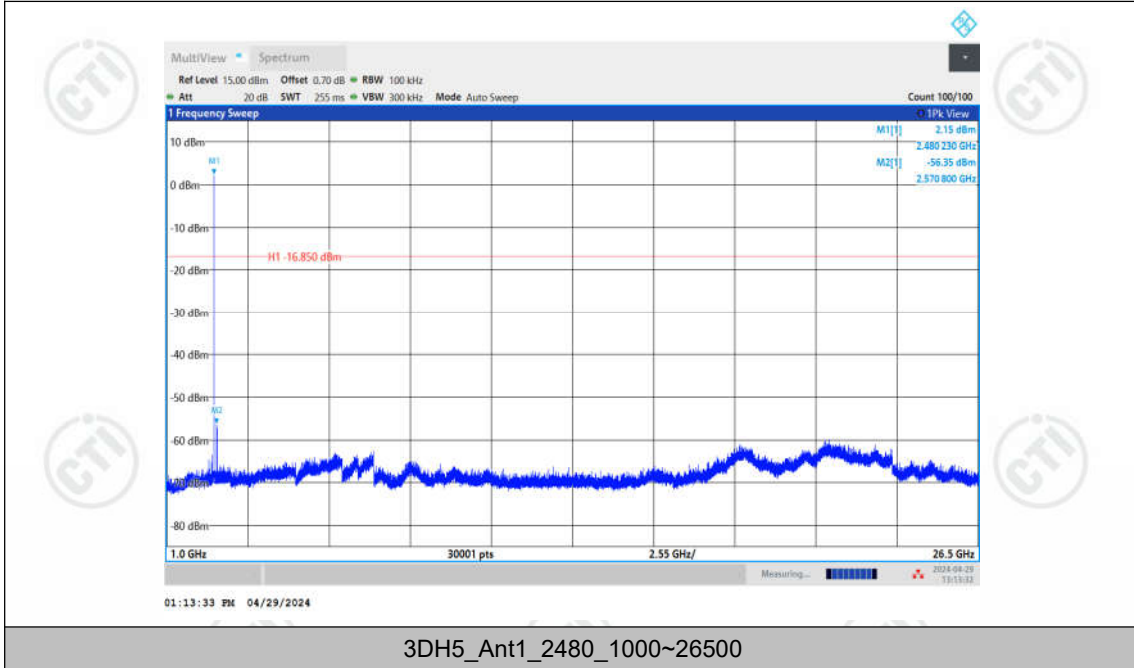
3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000

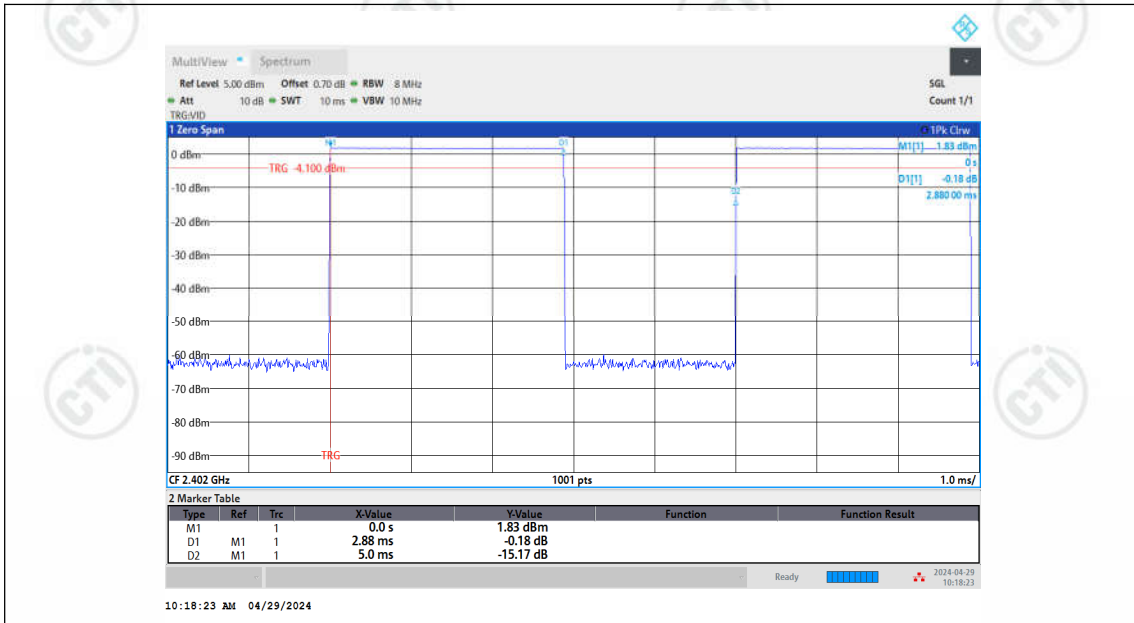


Appendix I: Duty Cycle**Test Result**

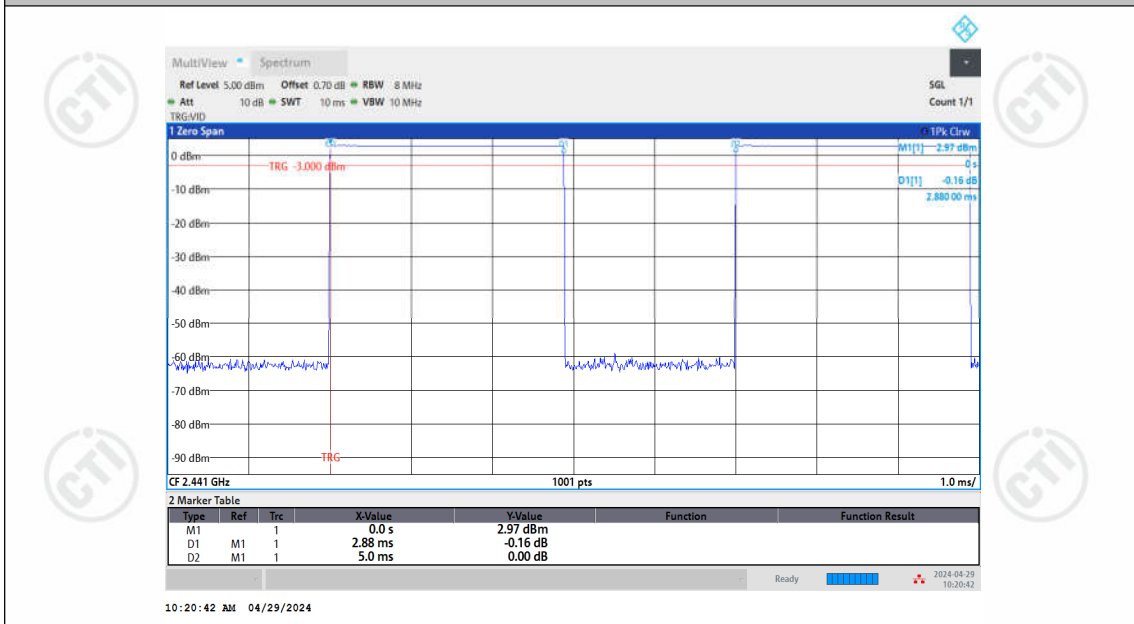
Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.88	5.00	57.60	2.40
		2441	2.88	5.00	57.60	2.40
		2480	2.88	5.00	57.60	2.40
2DH5	Ant1	2402	2.89	5.00	57.80	2.38
		2441	2.89	5.00	57.80	2.38
		2480	2.88	5.01	57.49	2.40
3DH5	Ant1	2402	2.89	5.01	57.68	2.39
		2441	2.89	5.01	57.68	2.39
		2480	2.89	5.00	57.80	2.38

Note:Duty Cycle Factor[dB]=-10*IgDuty Cycle;

Test Graphs

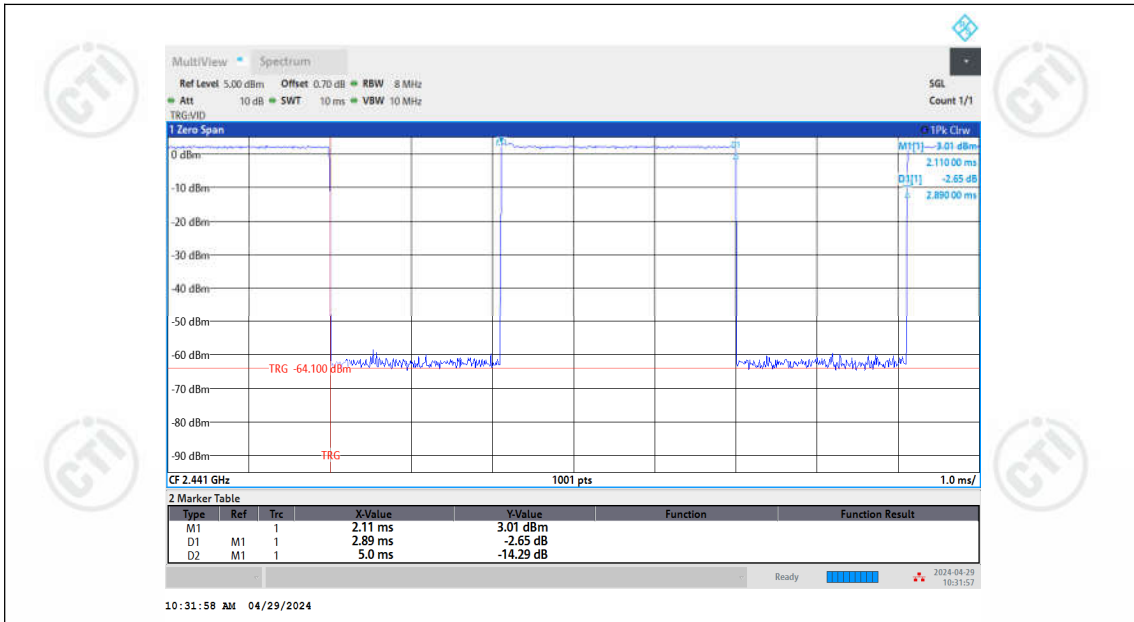


DH5_Ant1_2402

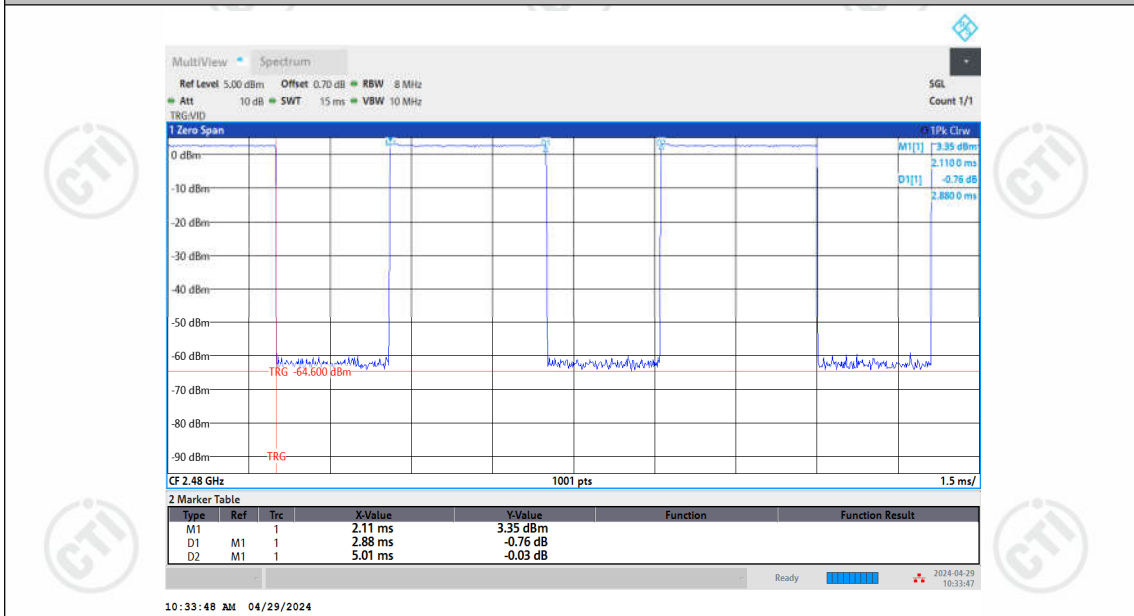


DH5_Ant1_2441

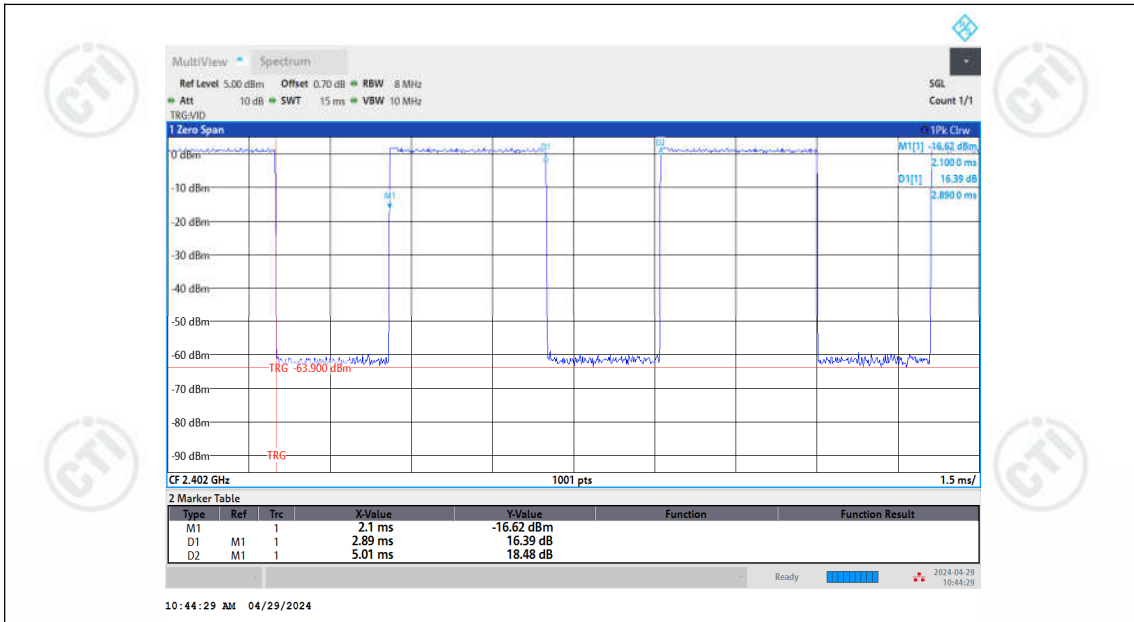




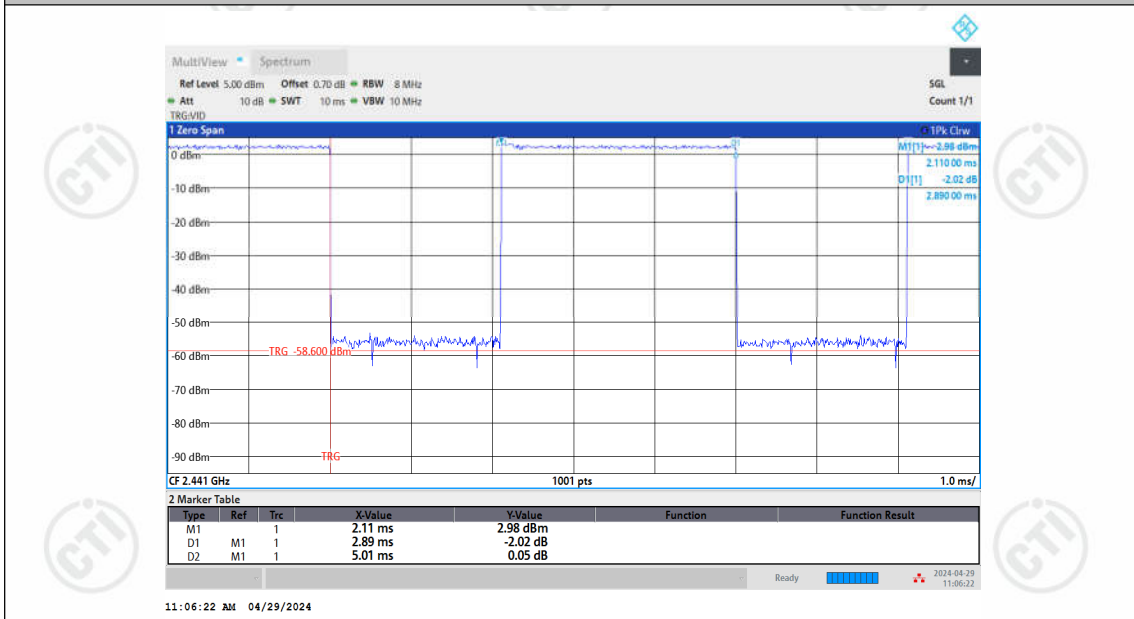
2DH5_Ant1_2441



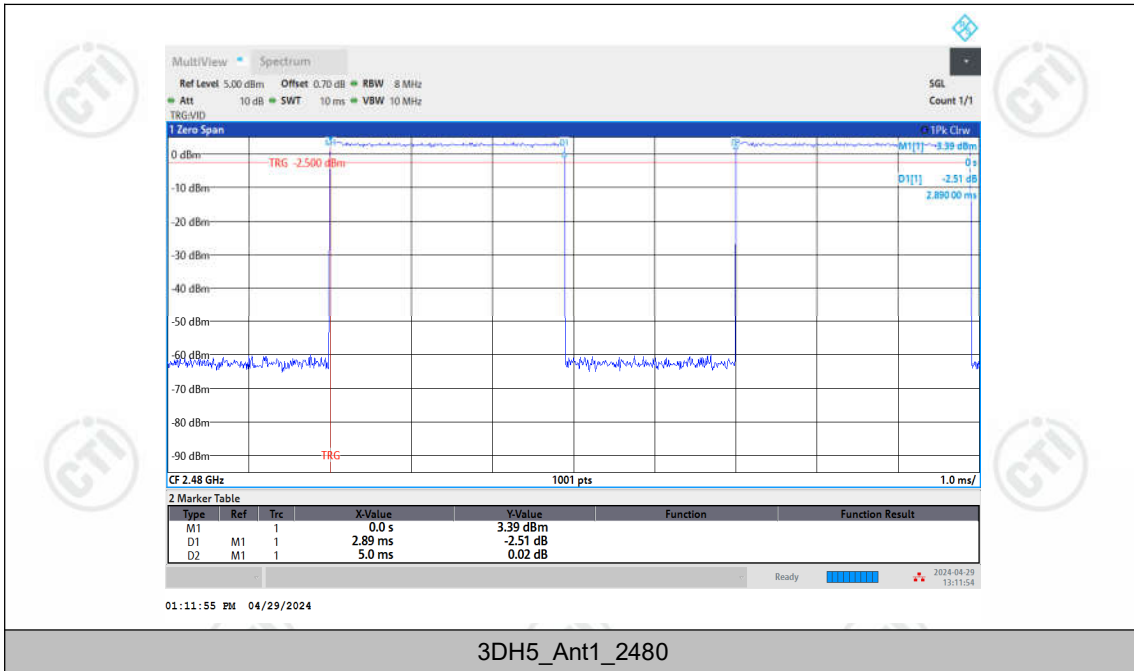
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



*** End of Report ***