

Appendix: Bluetooth Classic

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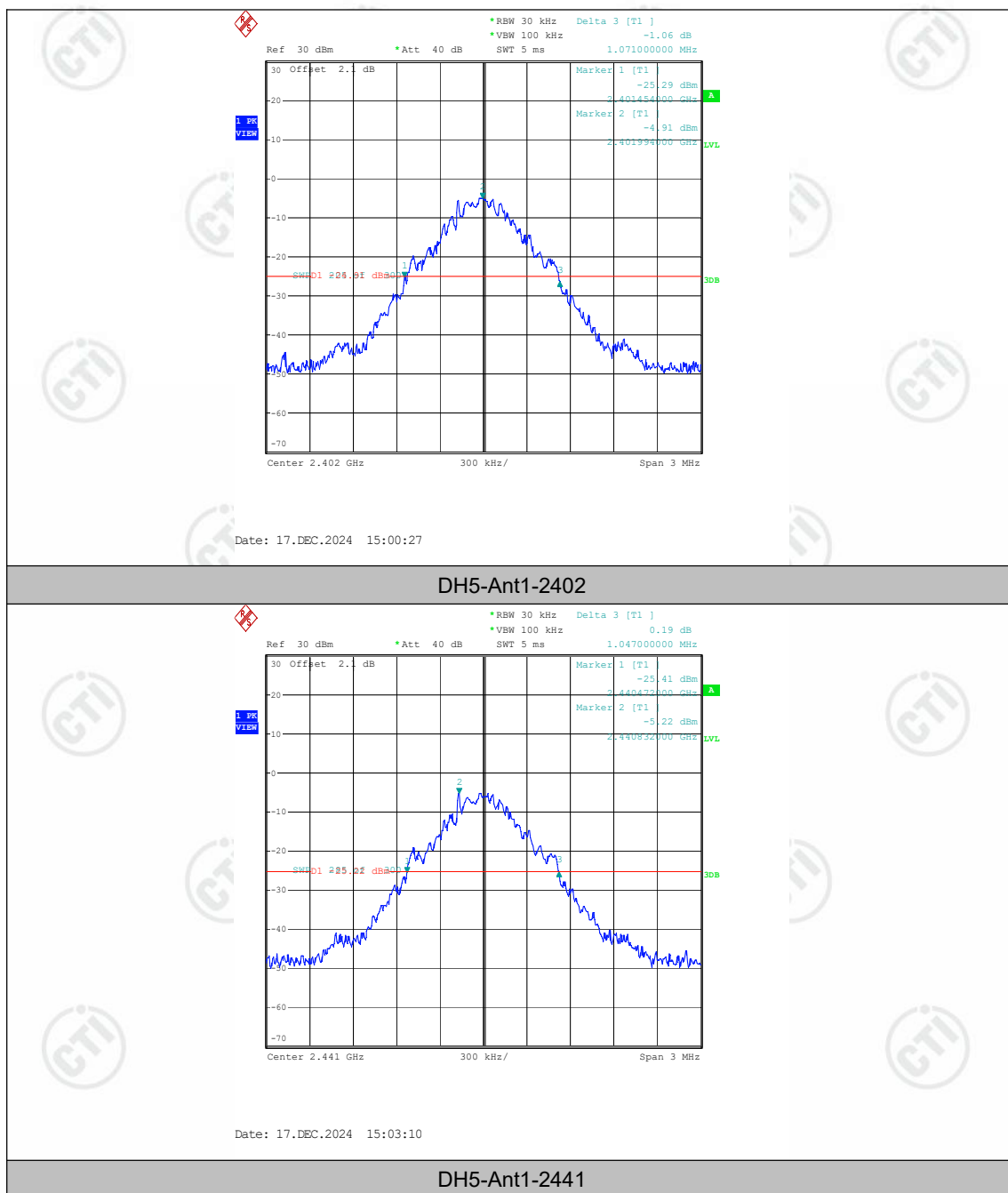
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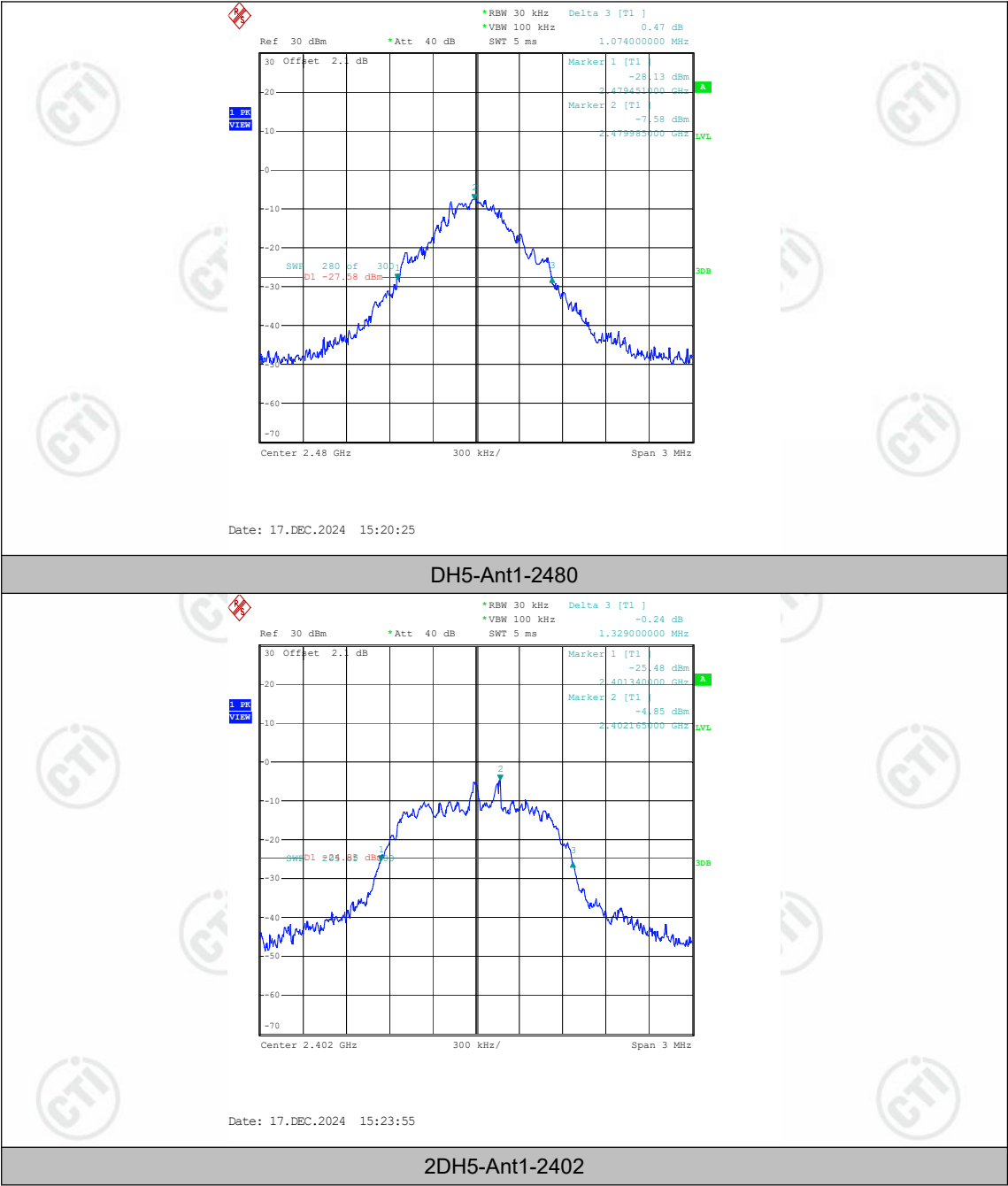
Appendix A: 20dB Emission Bandwidth

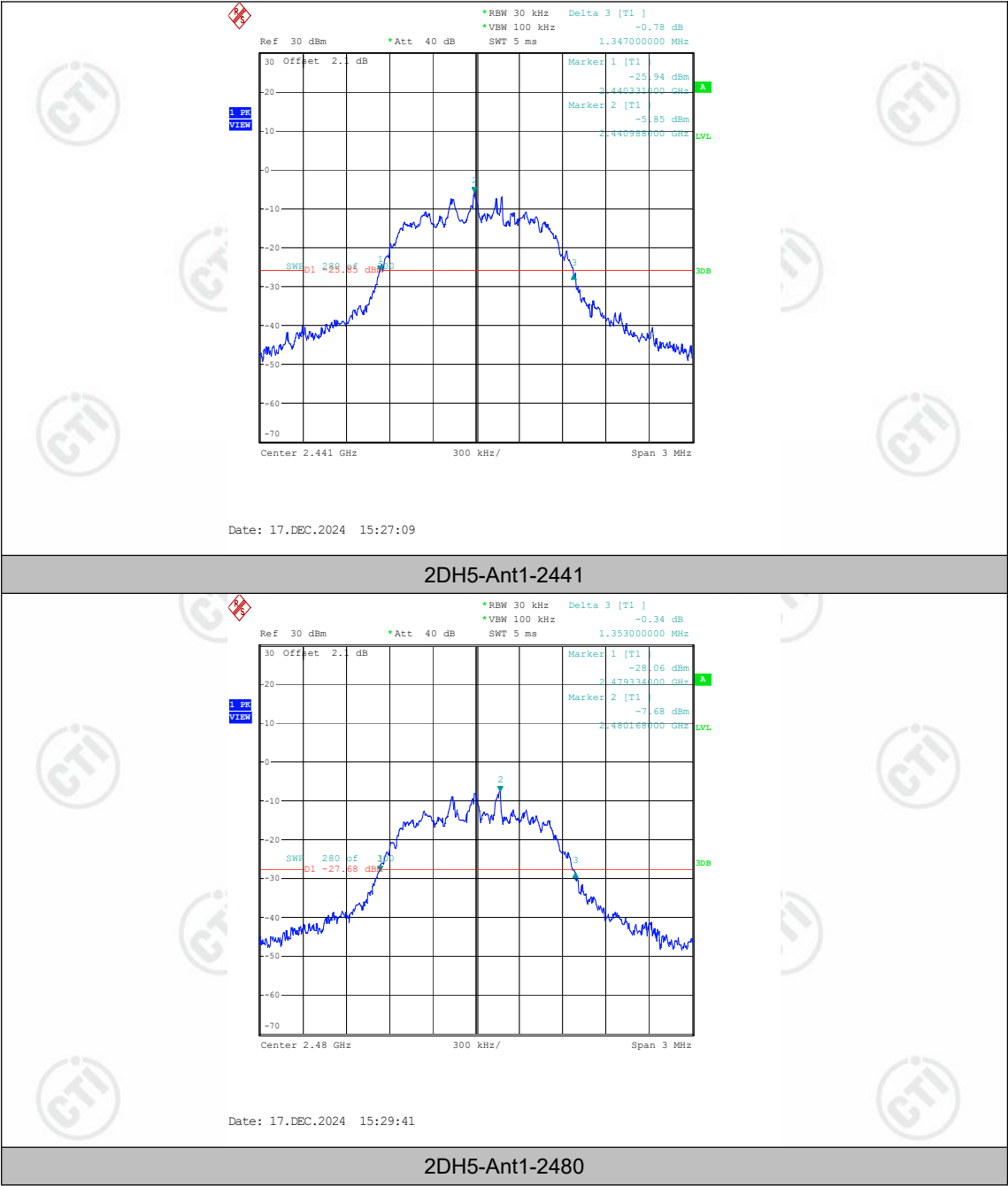
Test Result

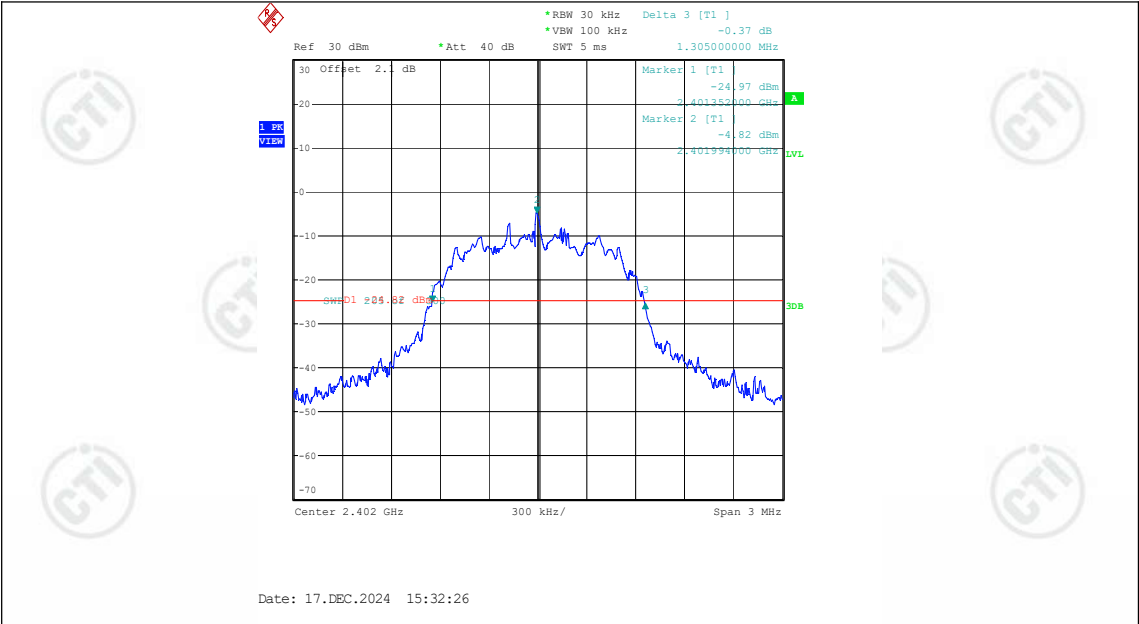
TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.07	2401.45	2402.53	---	---
DH5	Ant1	2441	1.05	2440.47	2441.52	---	---
DH5	Ant1	2480	1.07	2479.45	2480.53	---	---
2DH5	Ant1	2402	1.33	2401.34	2402.67	---	---
2DH5	Ant1	2441	1.35	2440.33	2441.68	---	---
2DH5	Ant1	2480	1.35	2479.33	2480.69	---	---
3DH5	Ant1	2402	1.31	2401.35	2402.66	---	---
3DH5	Ant1	2441	1.30	2440.35	2441.65	---	---
3DH5	Ant1	2480	1.29	2479.35	2480.65	---	---

Test Graphs

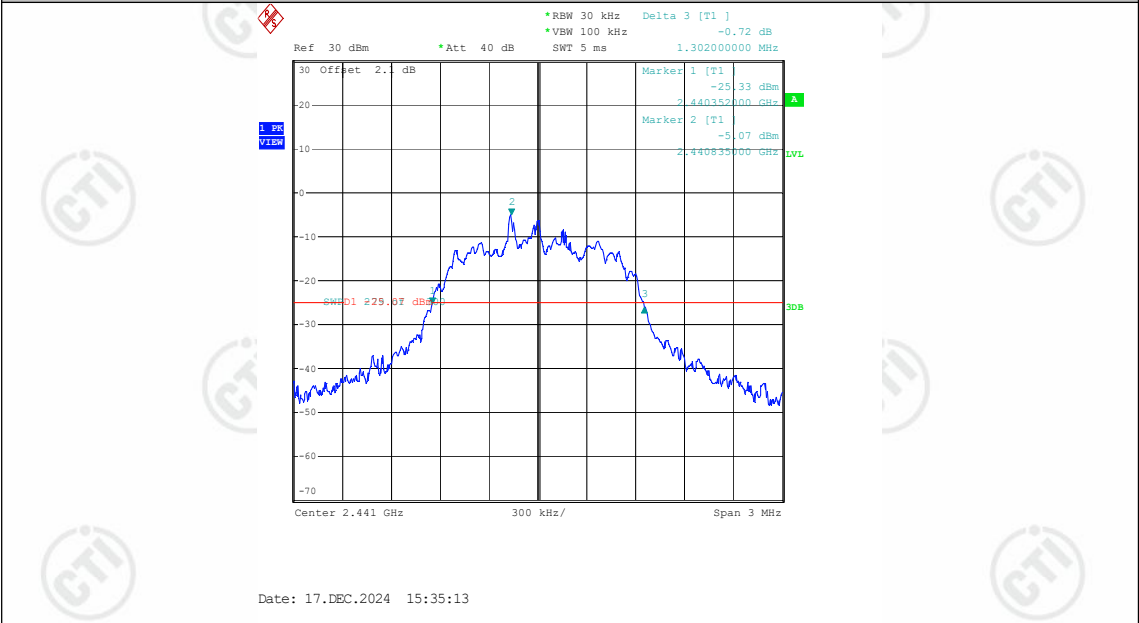




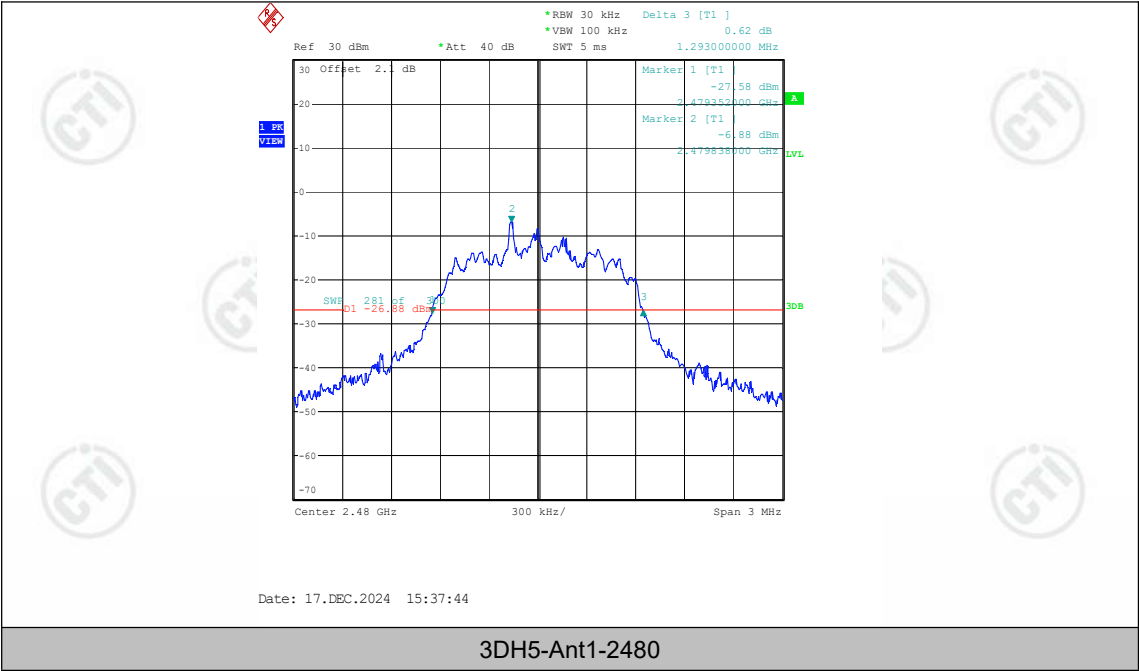




3DH5-Ant1-2402



3DH5-Ant1-2441

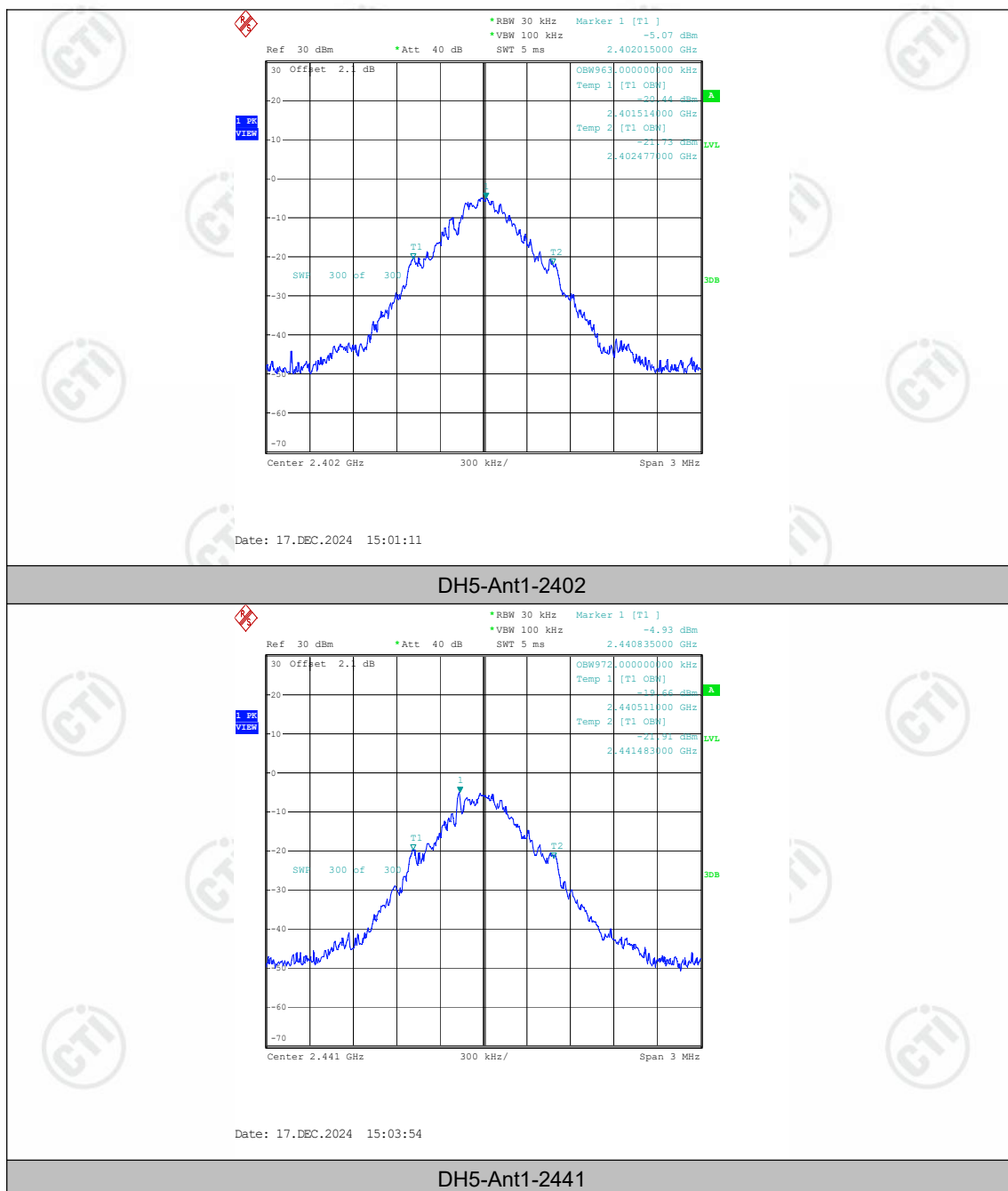


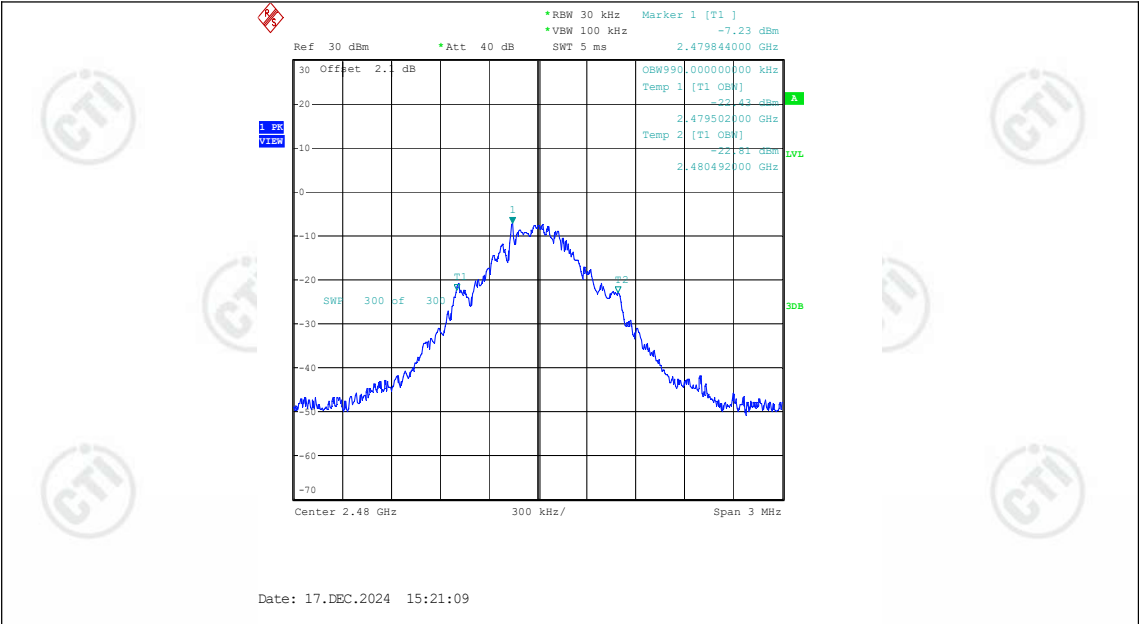
Appendix B: Occupied Channel Bandwidth

Test Result

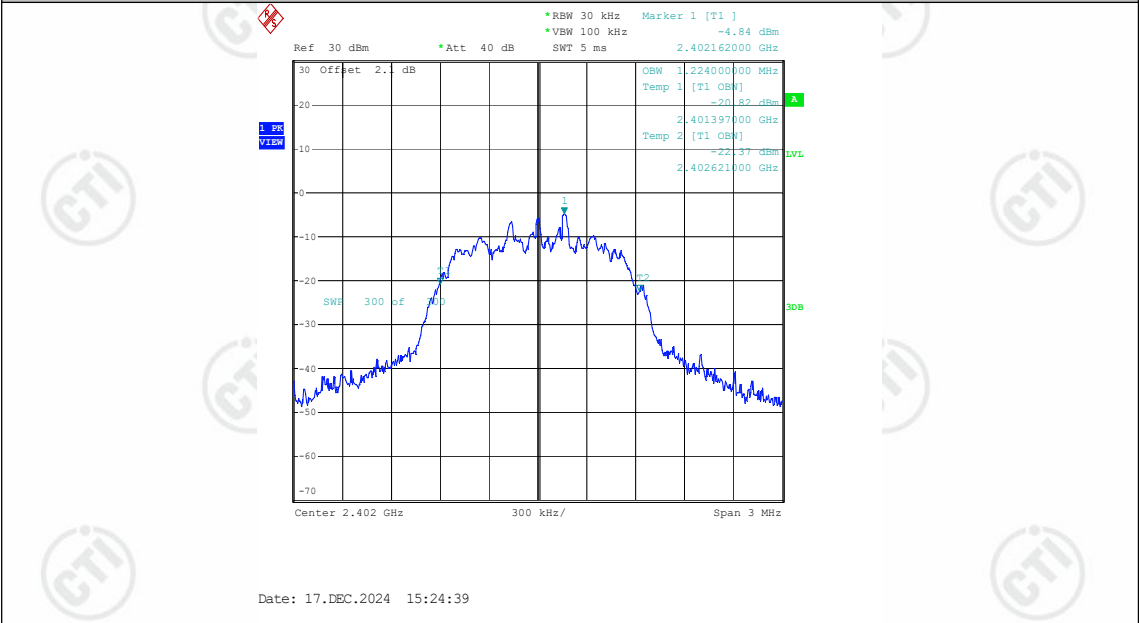
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit MHz]	Verdict
DH5	Ant1	2402	0.963	2401.514	2402.477	---	---
DH5	Ant1	2441	0.972	2440.511	2441.483	---	---
DH5	Ant1	2480	0.99	2479.502	2480.492	---	---
2DH5	Ant1	2402	1.224	2401.397	2402.621	---	---
2DH5	Ant1	2441	1.242	2440.388	2441.630	---	---
2DH5	Ant1	2480	1.254	2479.379	2480.633	---	---
3DH5	Ant1	2402	1.236	2401.379	2402.615	---	---
3DH5	Ant1	2441	1.233	2440.382	2441.615	---	---
3DH5	Ant1	2480	1.236	2479.379	2480.615	---	---

Test Graphs

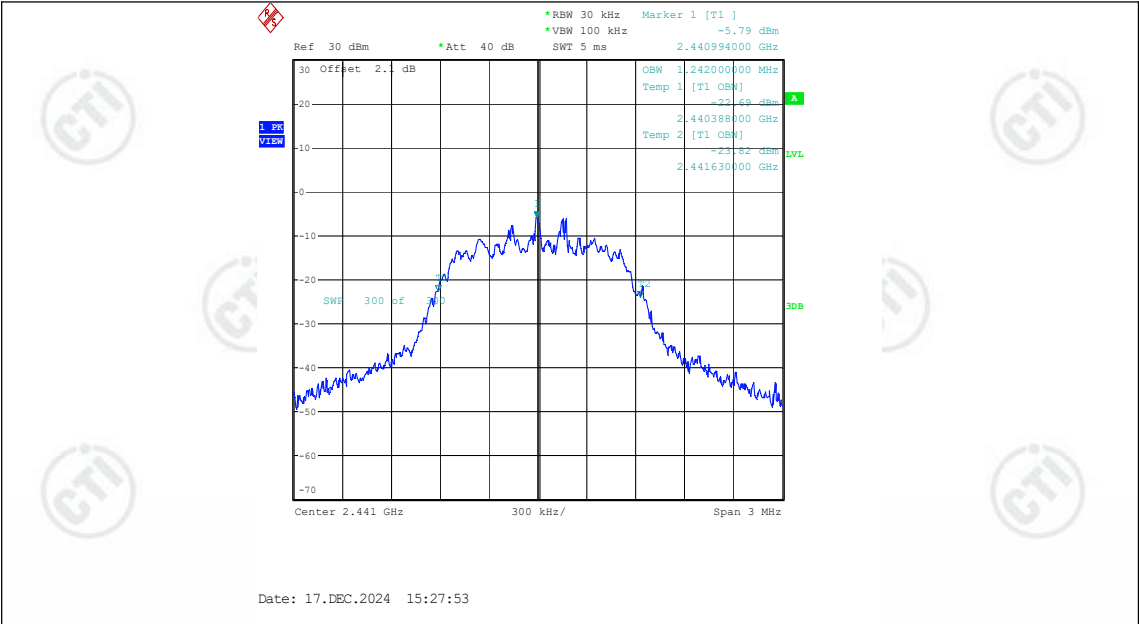




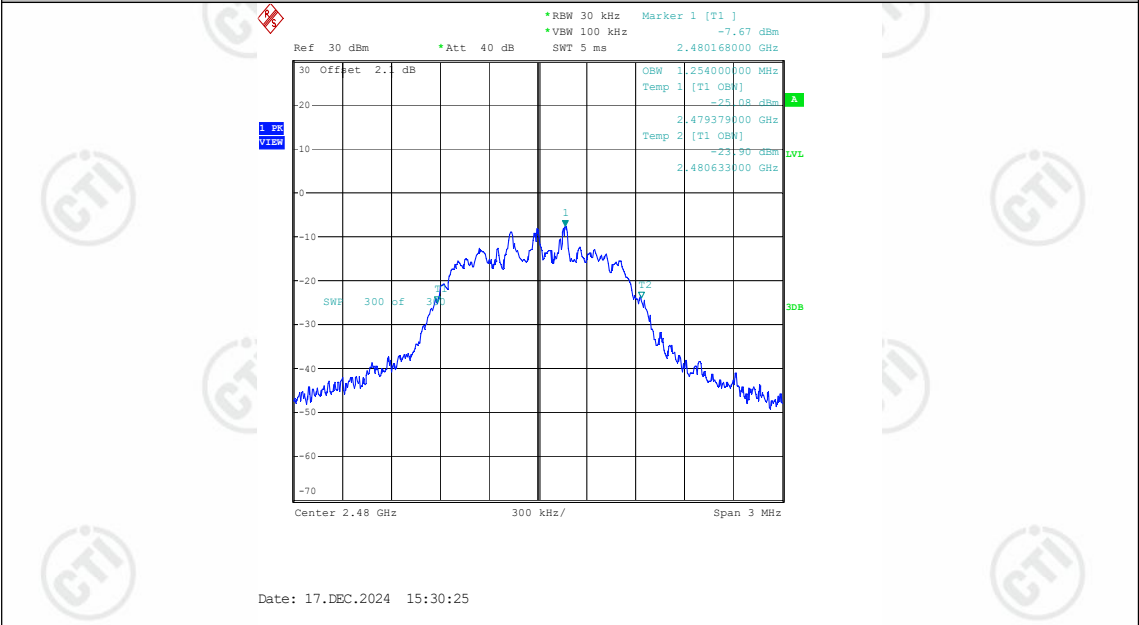
DH5-Ant1-2480



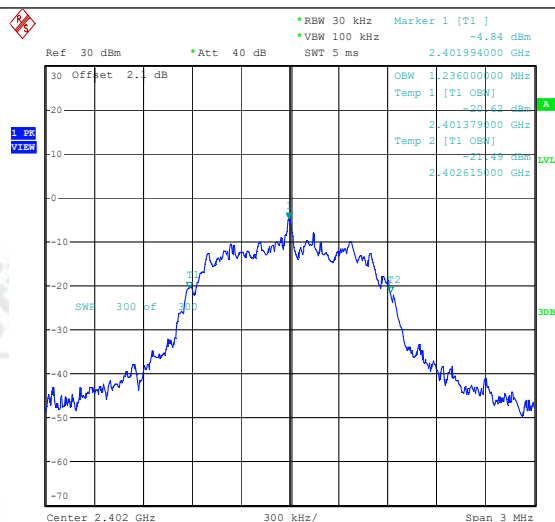
2DH5-Ant1-2402



2DH5-Ant1-2441

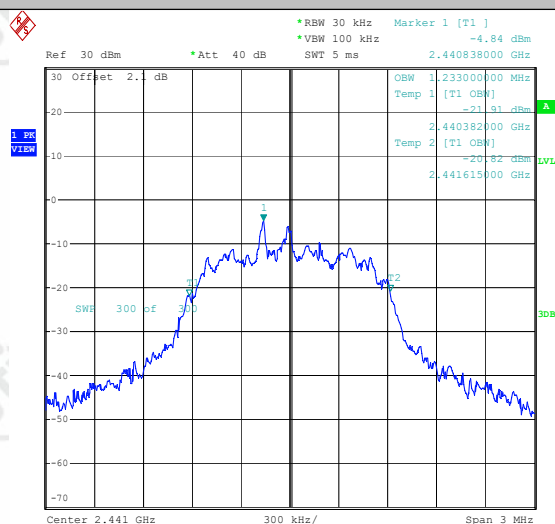


2DH5-Ant1-2480



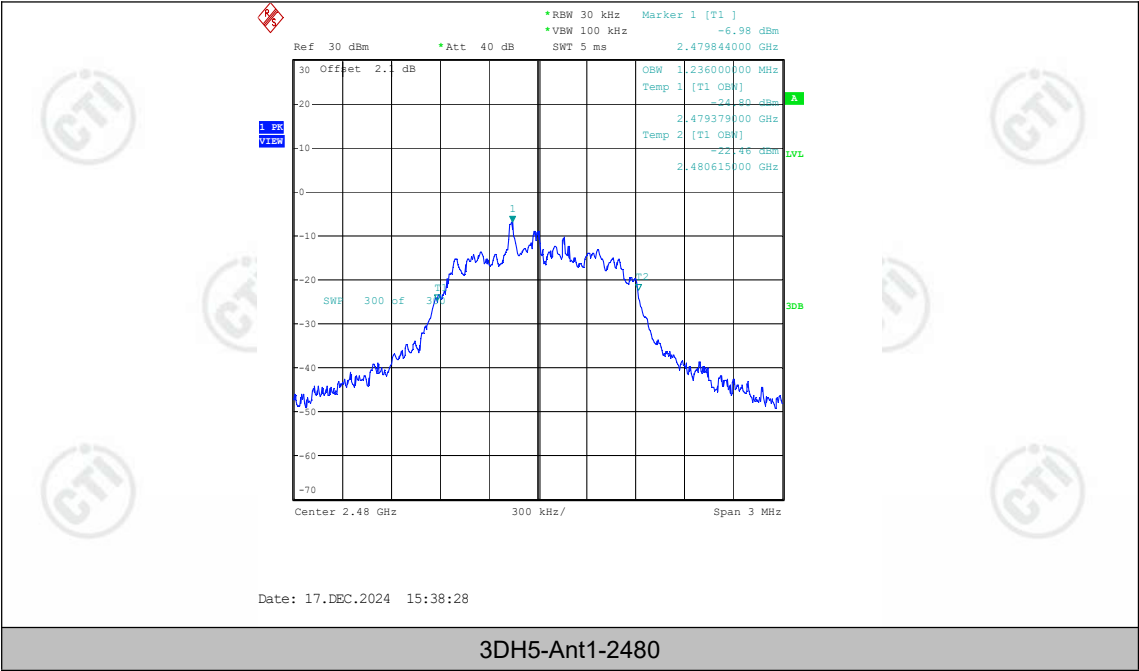
Date: 17.DEC.2024 15:33:11

3DH5-Ant1-2402



Date: 17.DEC.2024 15:35:57

3DH5-Ant1-2441

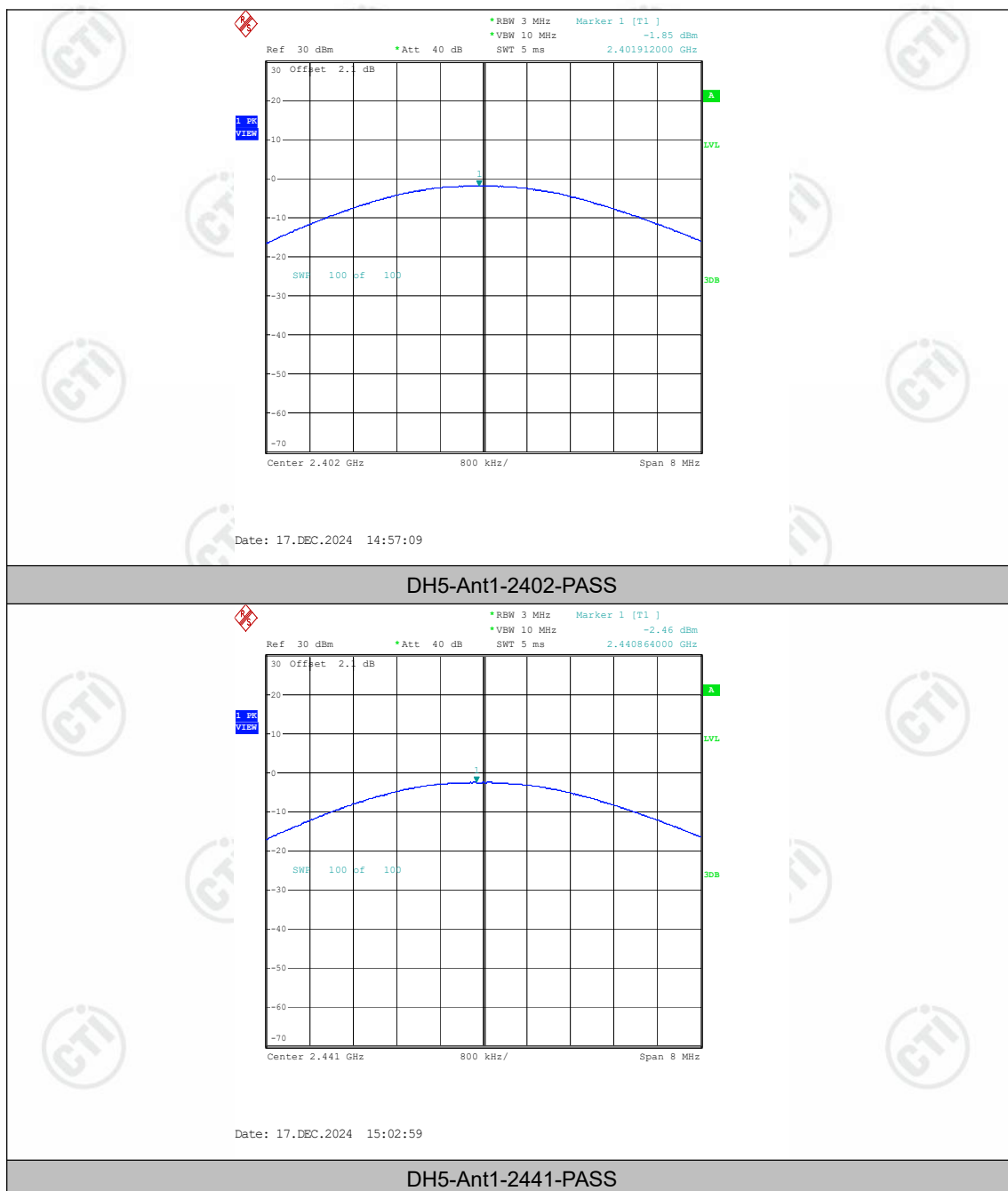


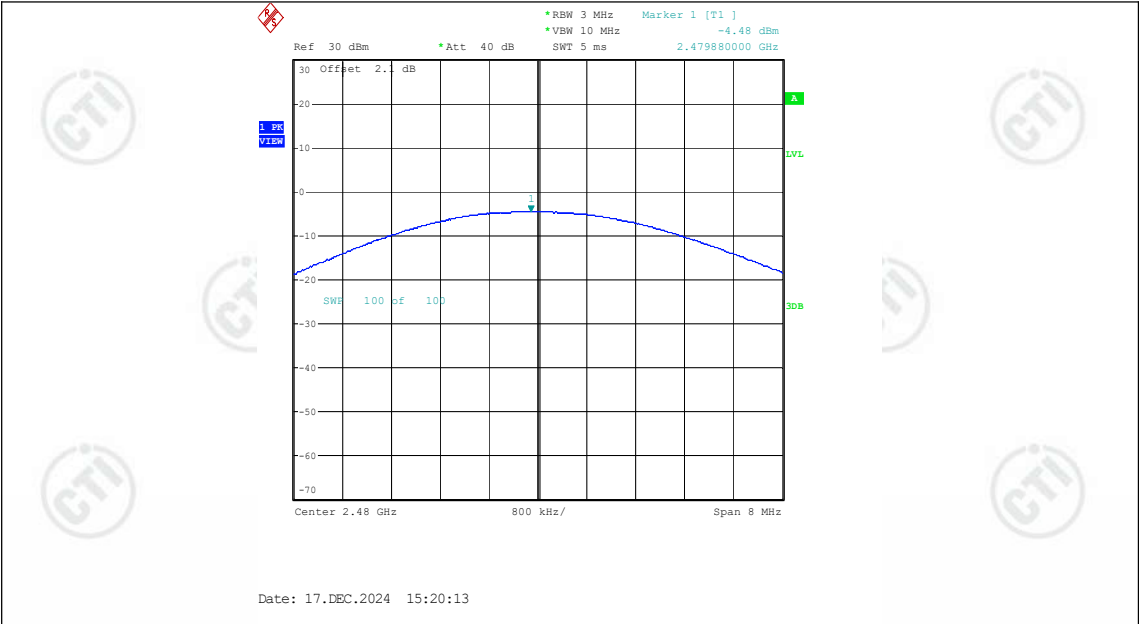
Appendix C: Maximum conducted output power

Test Result Peak

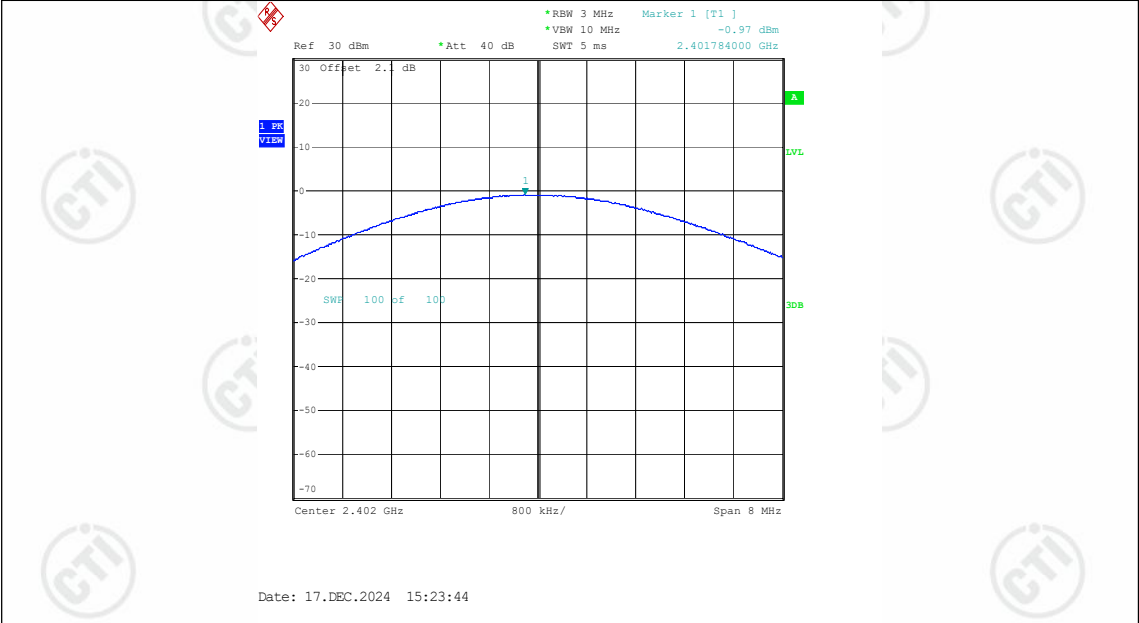
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-1.85	≤30.00	PASS
DH5	Ant1	2441	-2.46	≤20.97	PASS
DH5	Ant1	2480	-4.48	≤20.97	PASS
2DH5	Ant1	2402	-0.97	≤30.00	PASS
2DH5	Ant1	2441	-1.70	≤20.97	PASS
2DH5	Ant1	2480	-3.74	≤20.97	PASS
3DH5	Ant1	2402	-0.43	≤30.00	PASS
3DH5	Ant1	2441	-1.16	≤20.97	PASS
3DH5	Ant1	2480	-3.15	≤20.97	PASS

Test Graphs

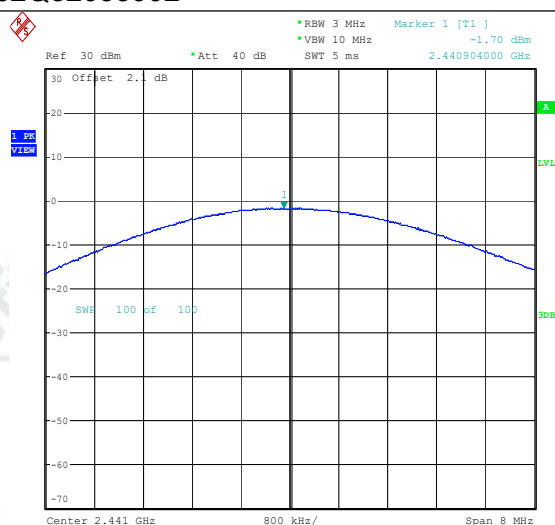




DH5-Ant1-2480-PASS

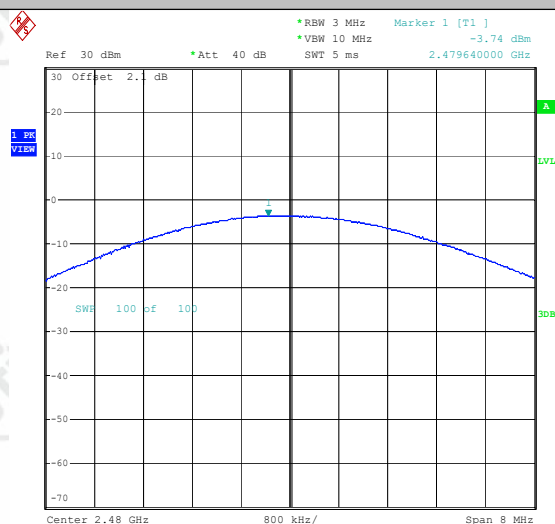


2DH5-Ant1-2402-PASS



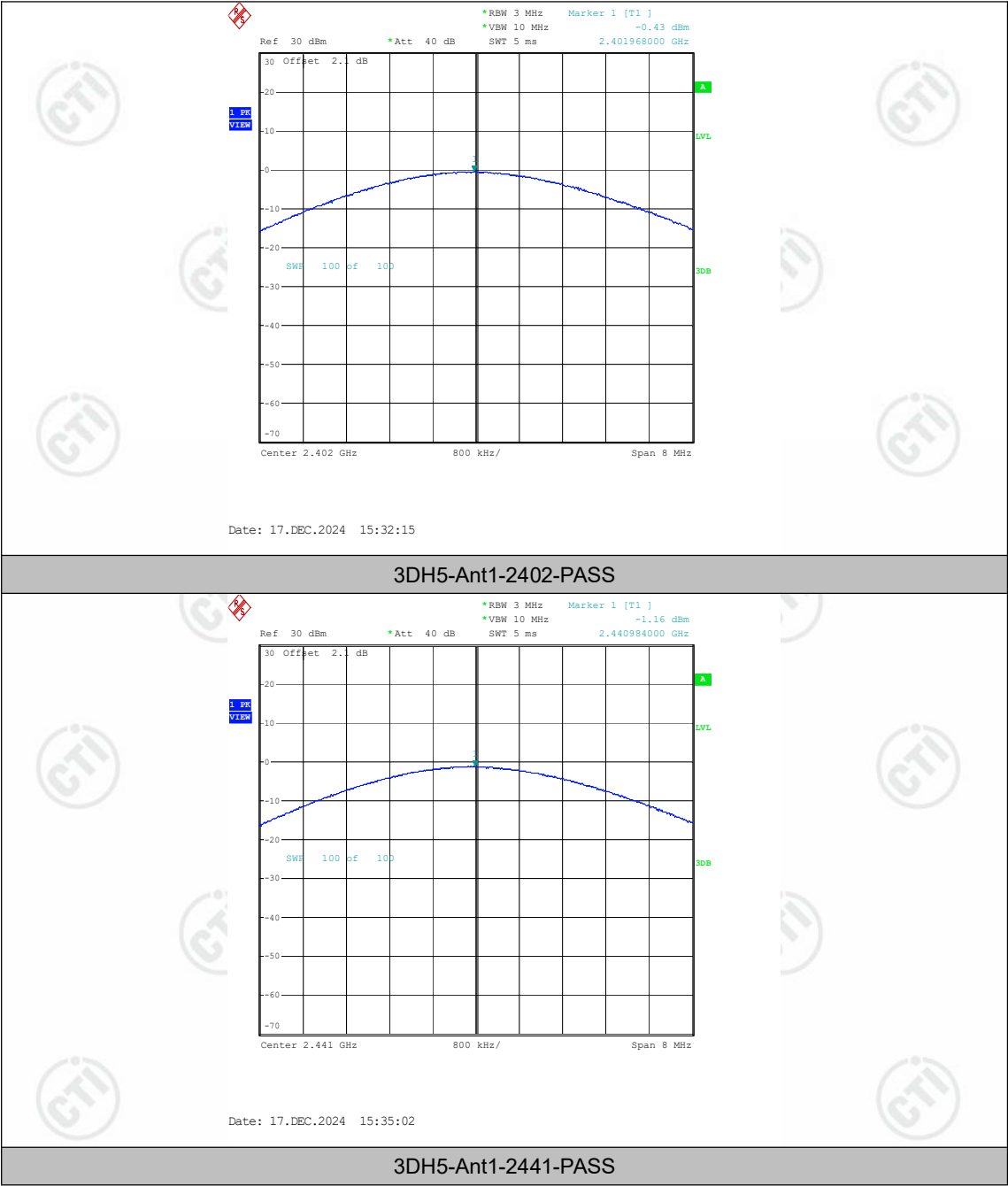
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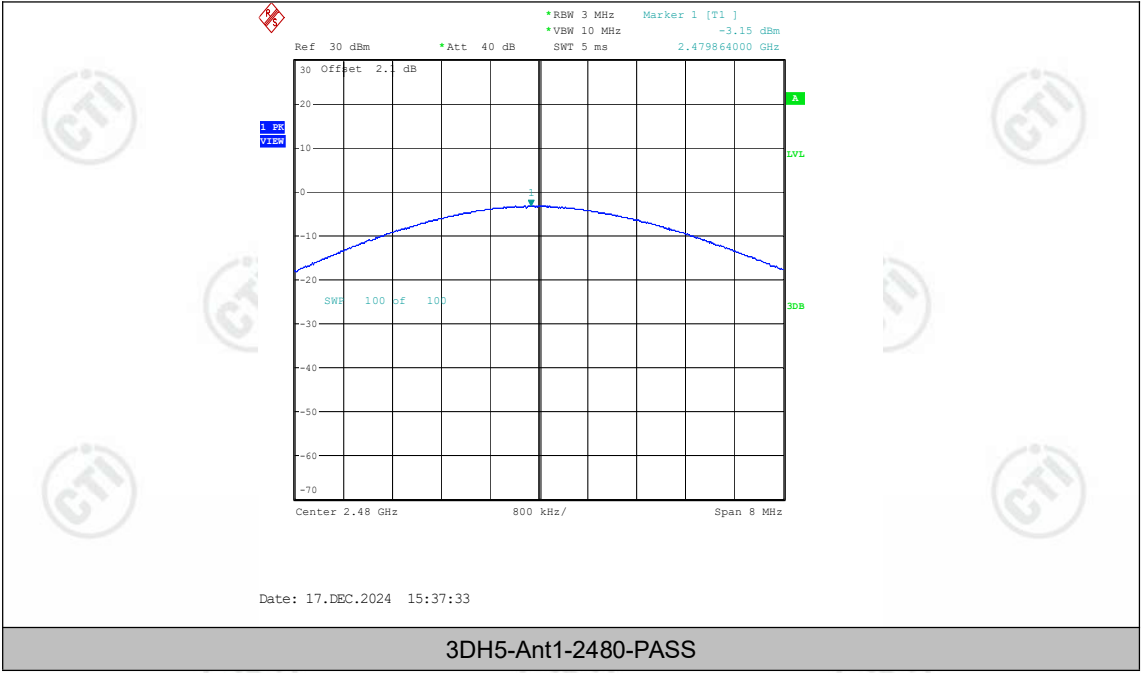
2DH5-Ant1-2441-PASS



Date: 17.DEC.2024 15:29:29

2DH5-Ant1-2480-PASS



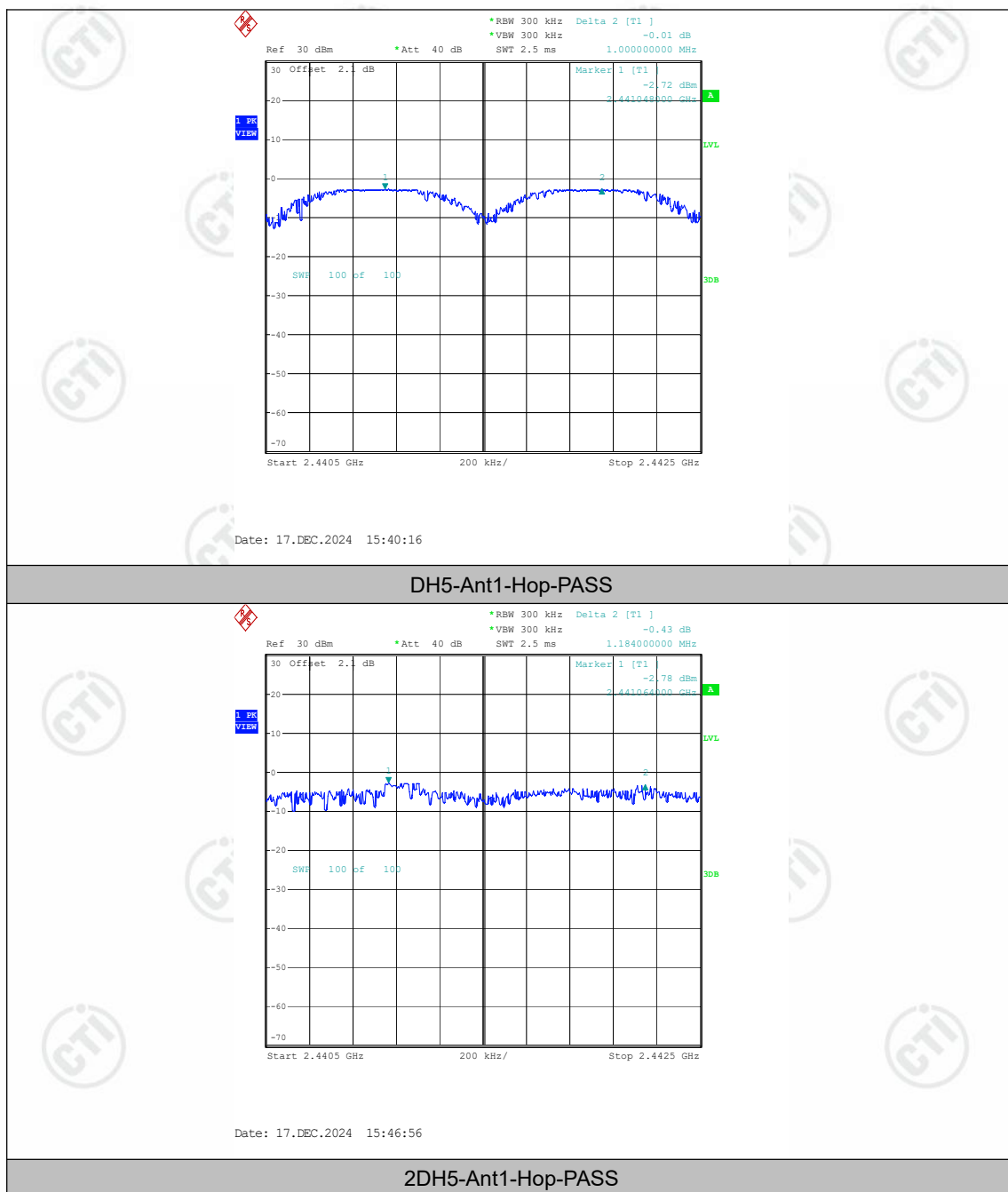


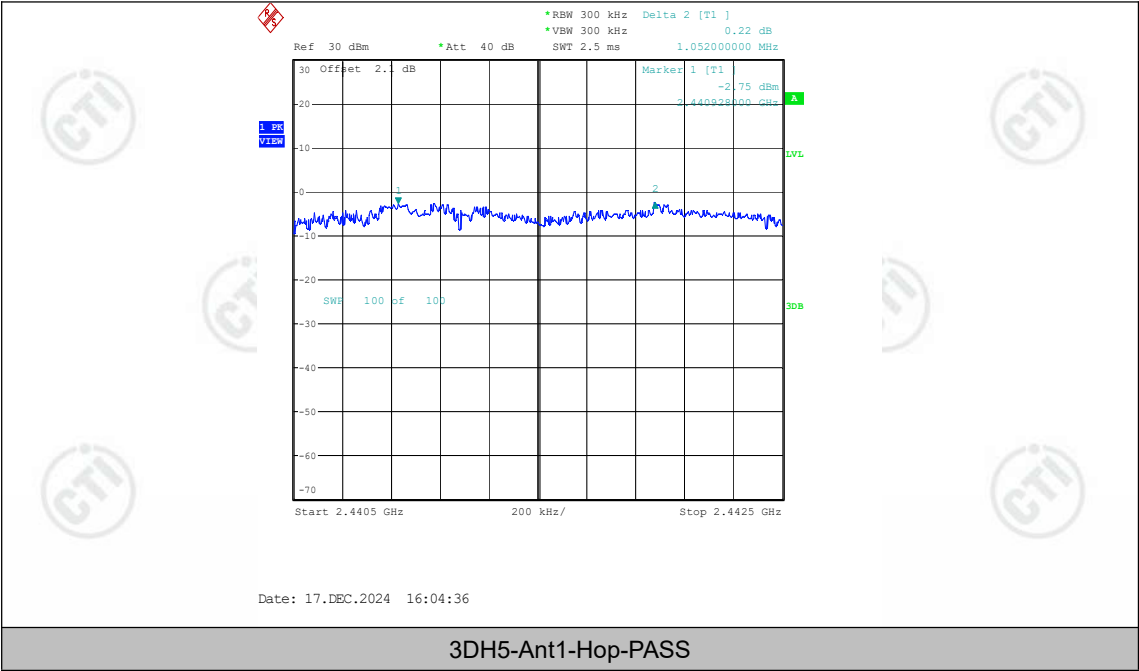
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1	≥0.713	PASS
2DH5	Ant1	Hop	1.184	≥0.900	PASS
3DH5	Ant1	Hop	1.052	≥0.873	PASS

Test Graphs

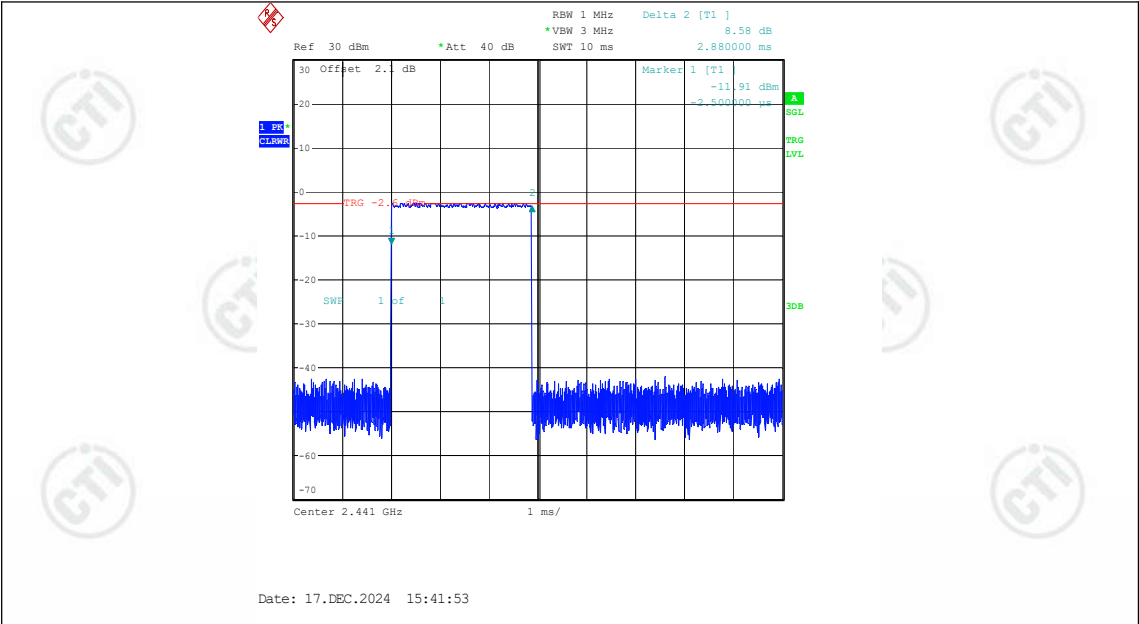




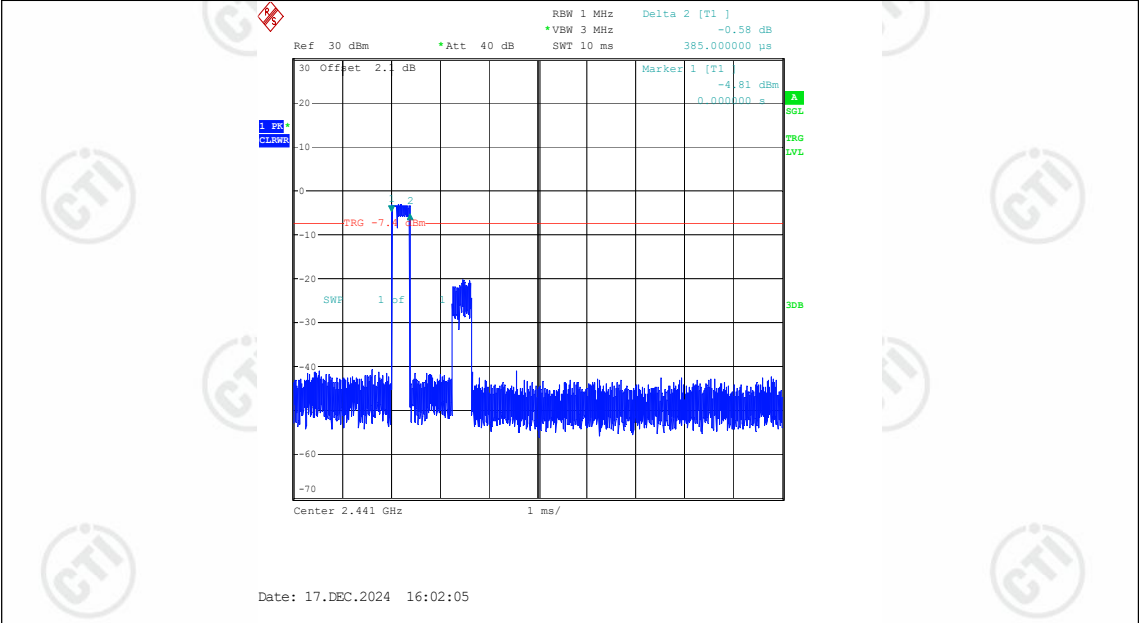
Appendix E: Time of occupancy

Test Result

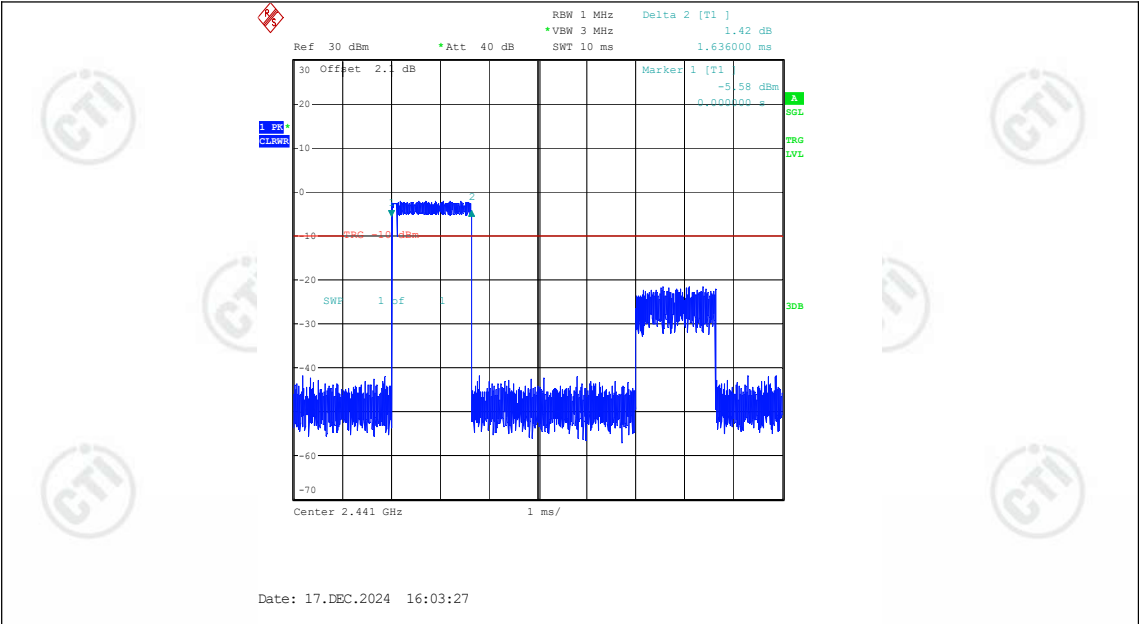
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.375	320	0.12	≤0.4	PASS
DH3	Ant1	Hop	1.633	160	0.261	≤0.4	PASS
DH5	Ant1	Hop	2.880	106.67	0.307	≤0.4	PASS
2DH1	Ant1	Hop	0.385	320	0.123	≤0.4	PASS
2DH3	Ant1	Hop	1.636	160	0.262	≤0.4	PASS
2DH5	Ant1	Hop	2.885	106.67	0.308	≤0.4	PASS
3DH1	Ant1	Hop	0.386	320	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.636	160	0.262	≤0.4	PASS
3DH5	Ant1	Hop	2.888	106.67	0.308	≤0.4	PASS



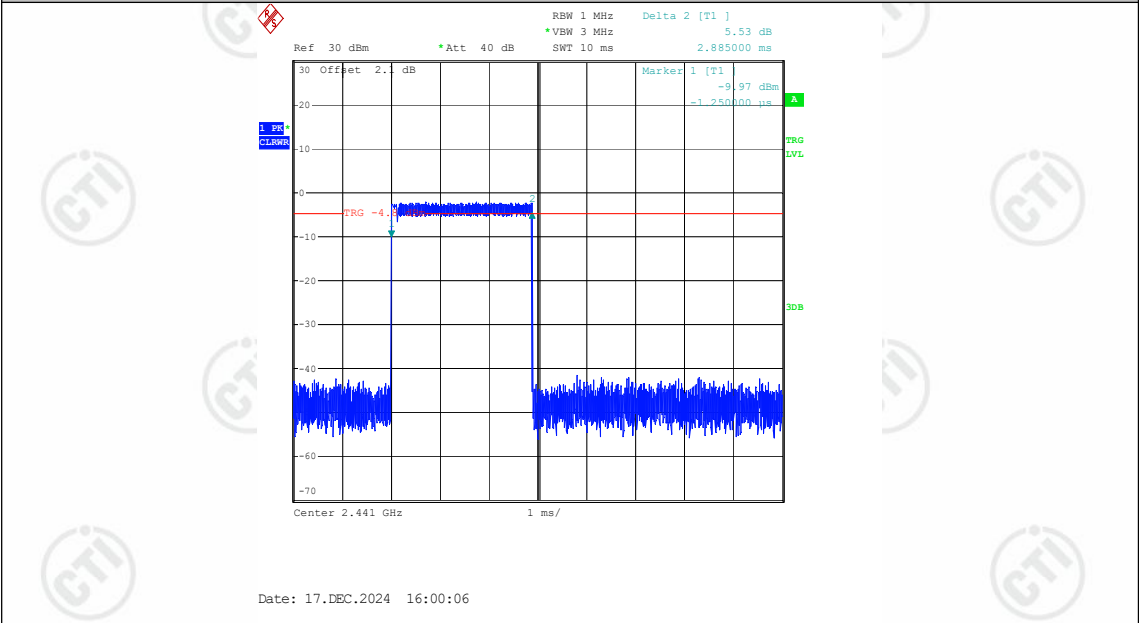
DH5-Ant1-Hop-PASS



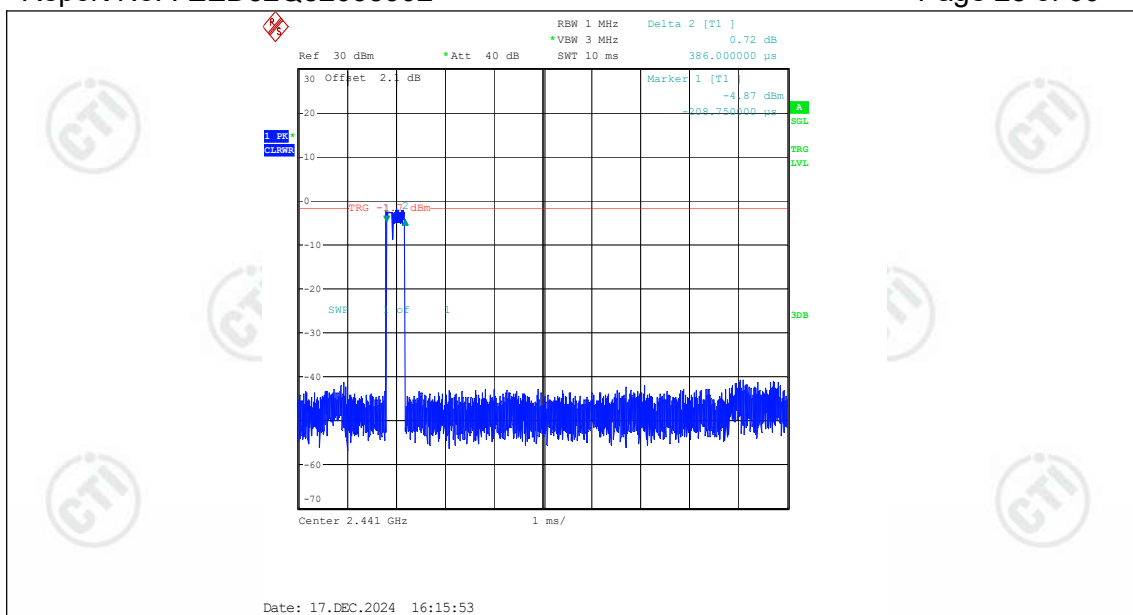
2DH1-Ant1-Hop-PASS



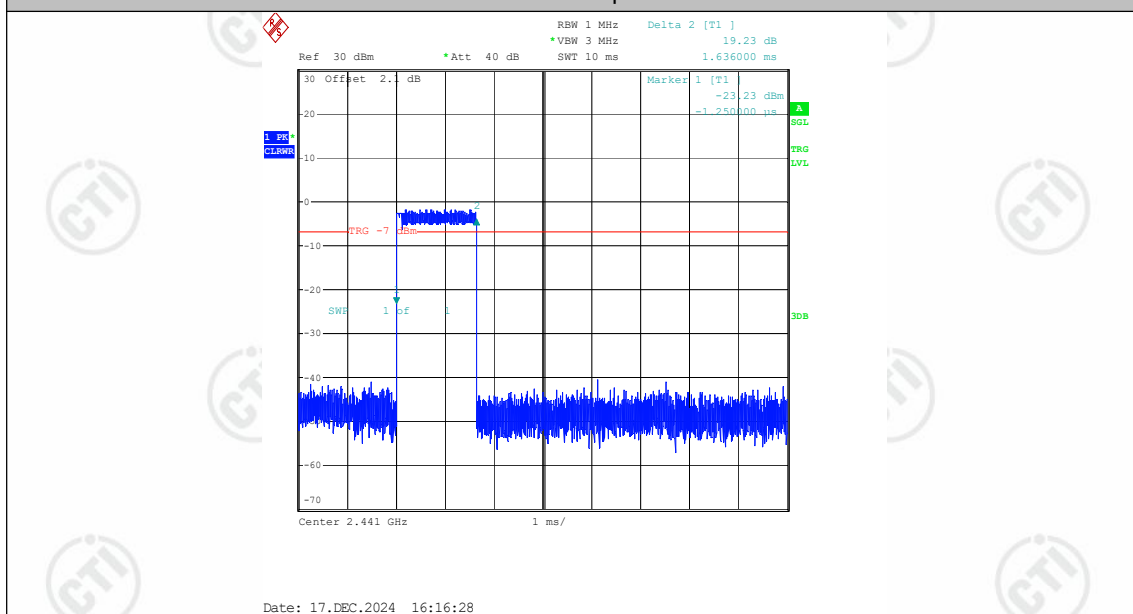
2DH3-Ant1-Hop-PASS



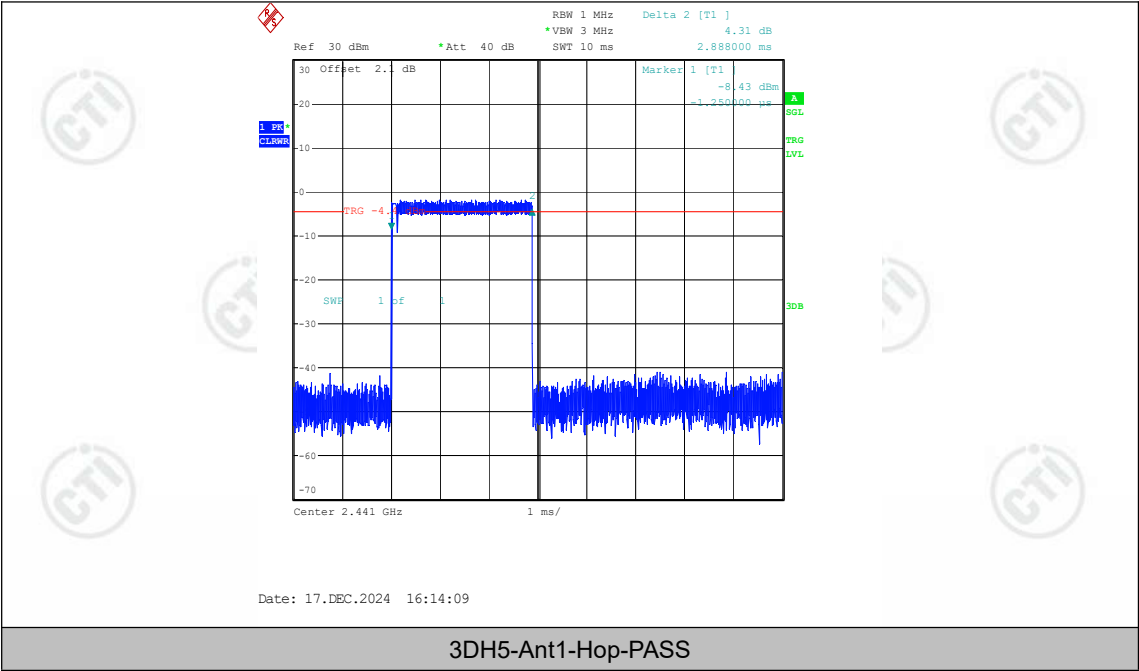
2DH5-Ant1-Hop-PASS



3DH1-Ant1-Hop-PASS



3DH3-Ant1-Hop-PASS

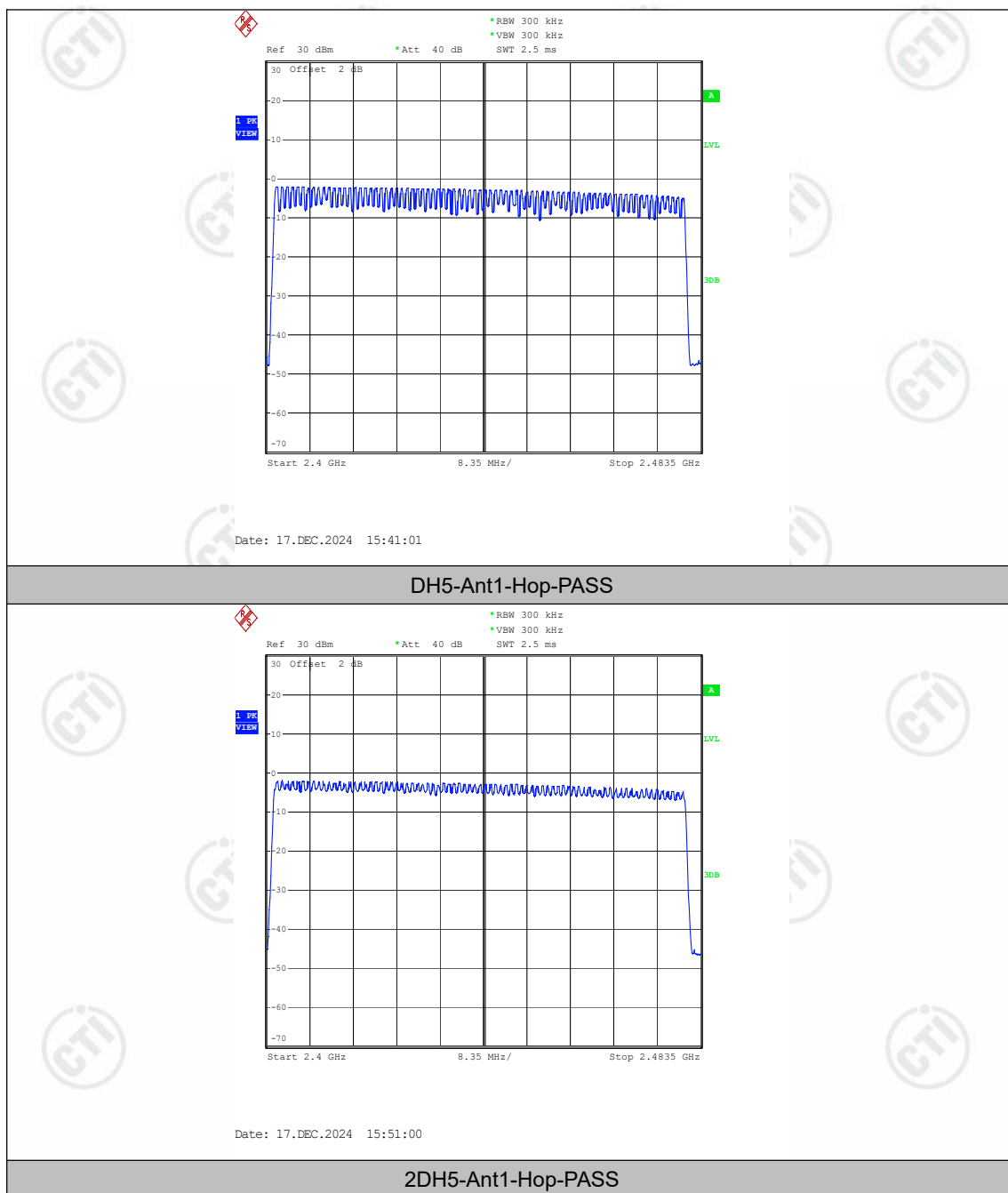


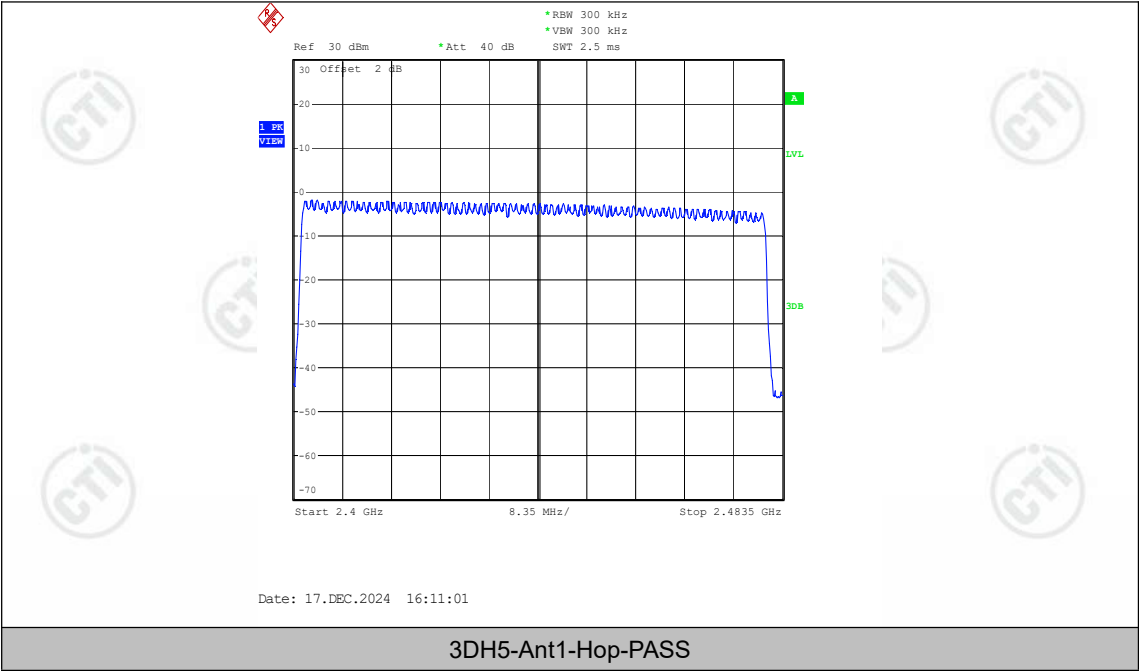
Appendix F: Number of hopping channels

Test Result

TestMode	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



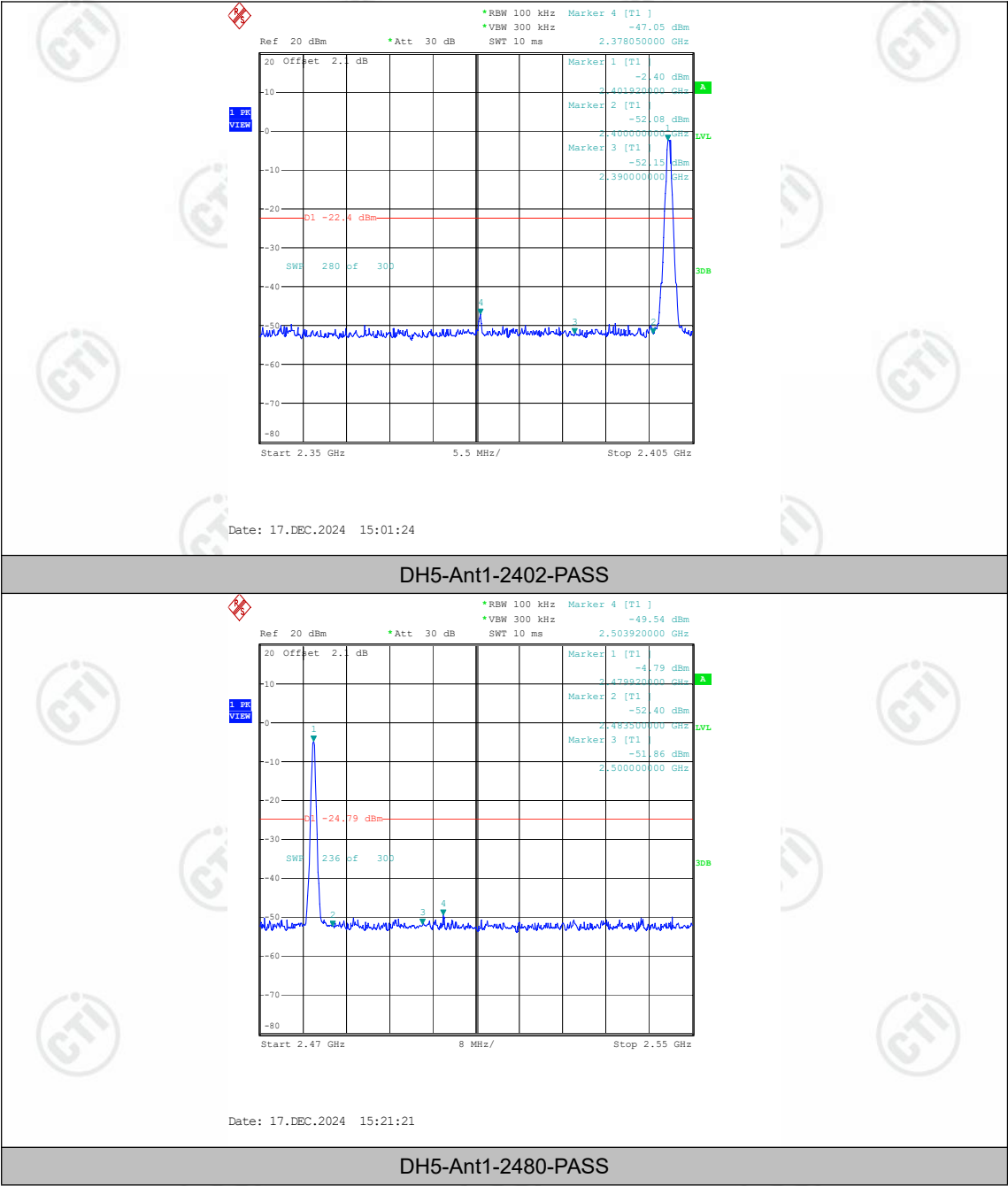


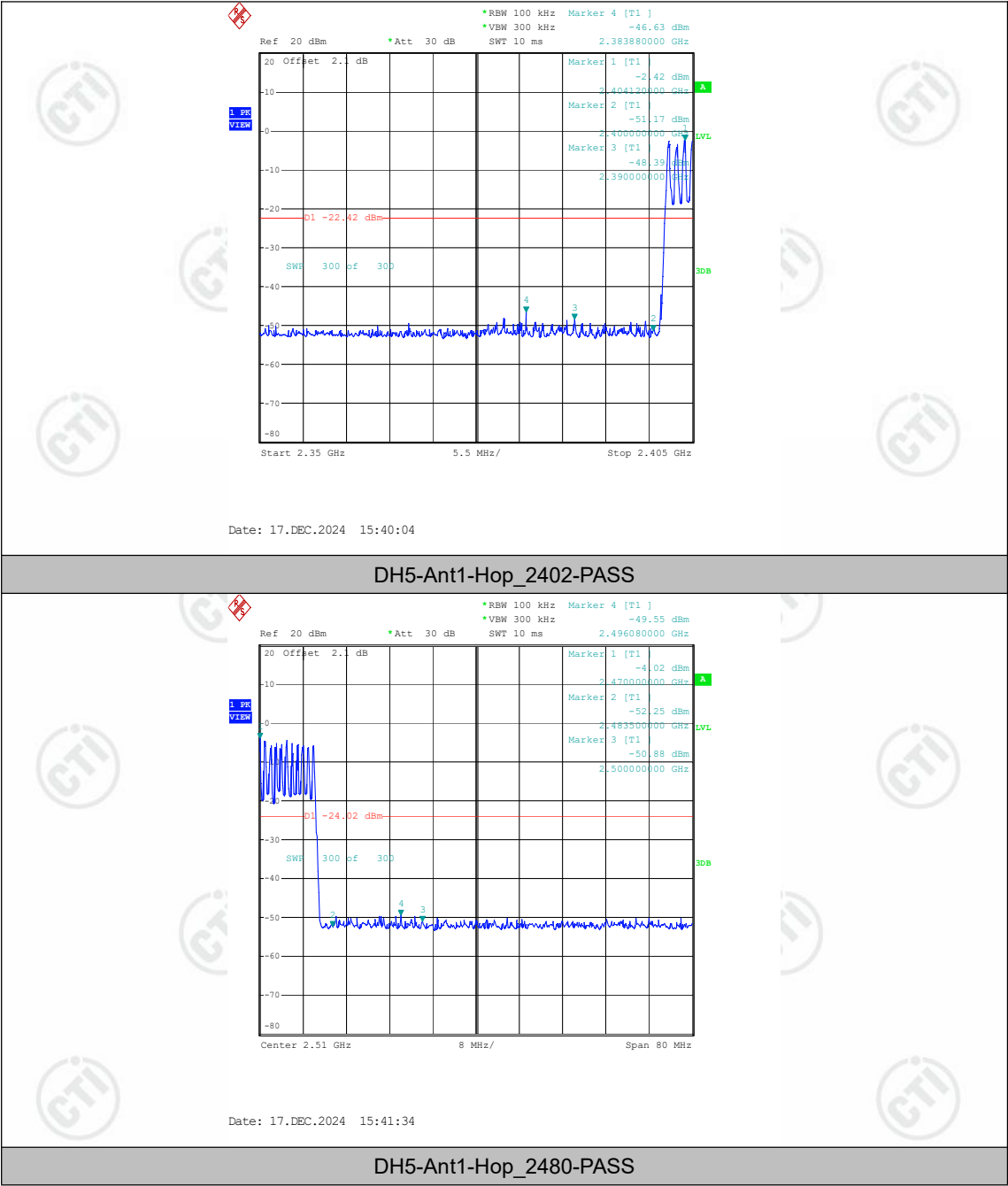
Appendix G: Band edge measurements

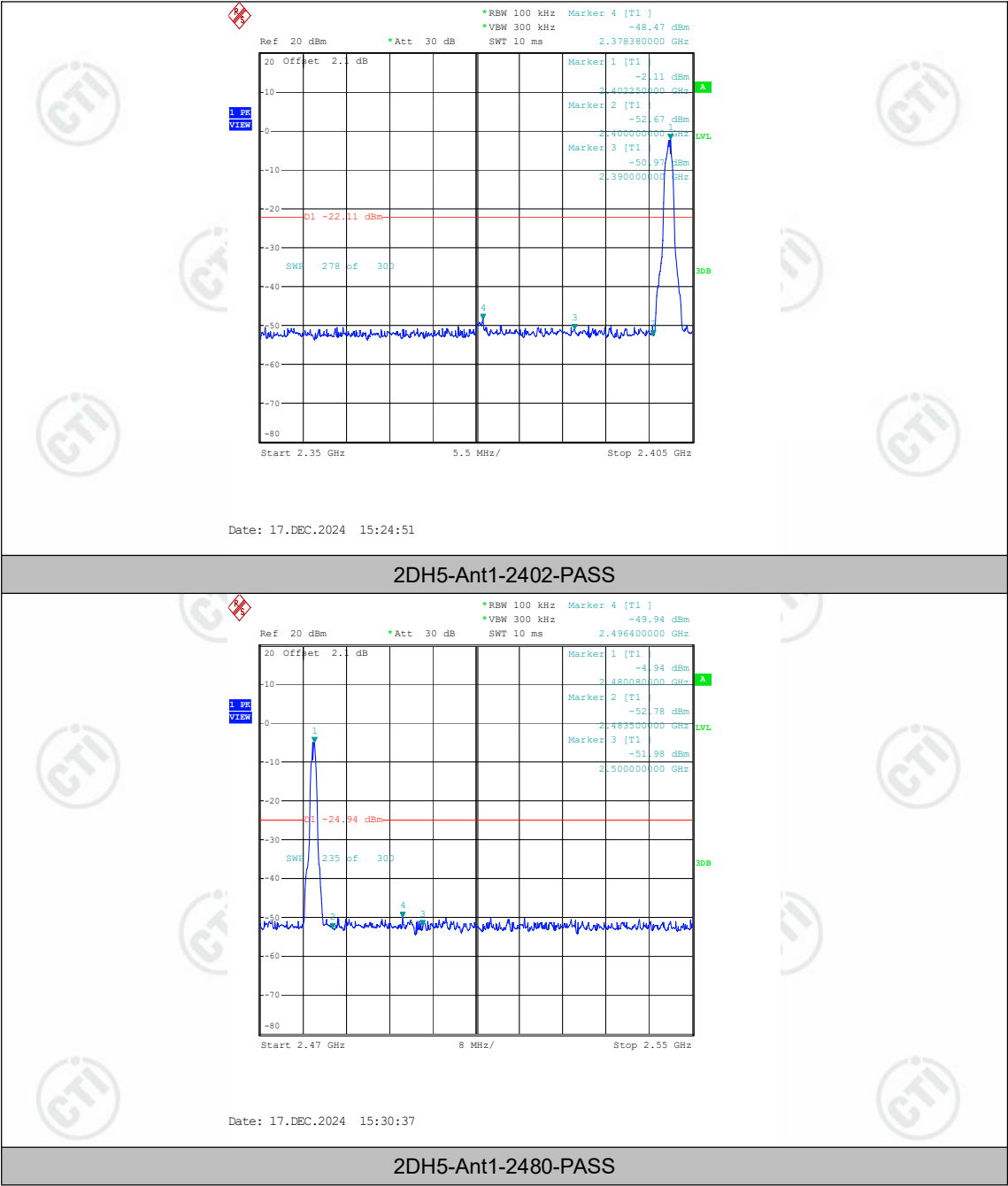
Test Result

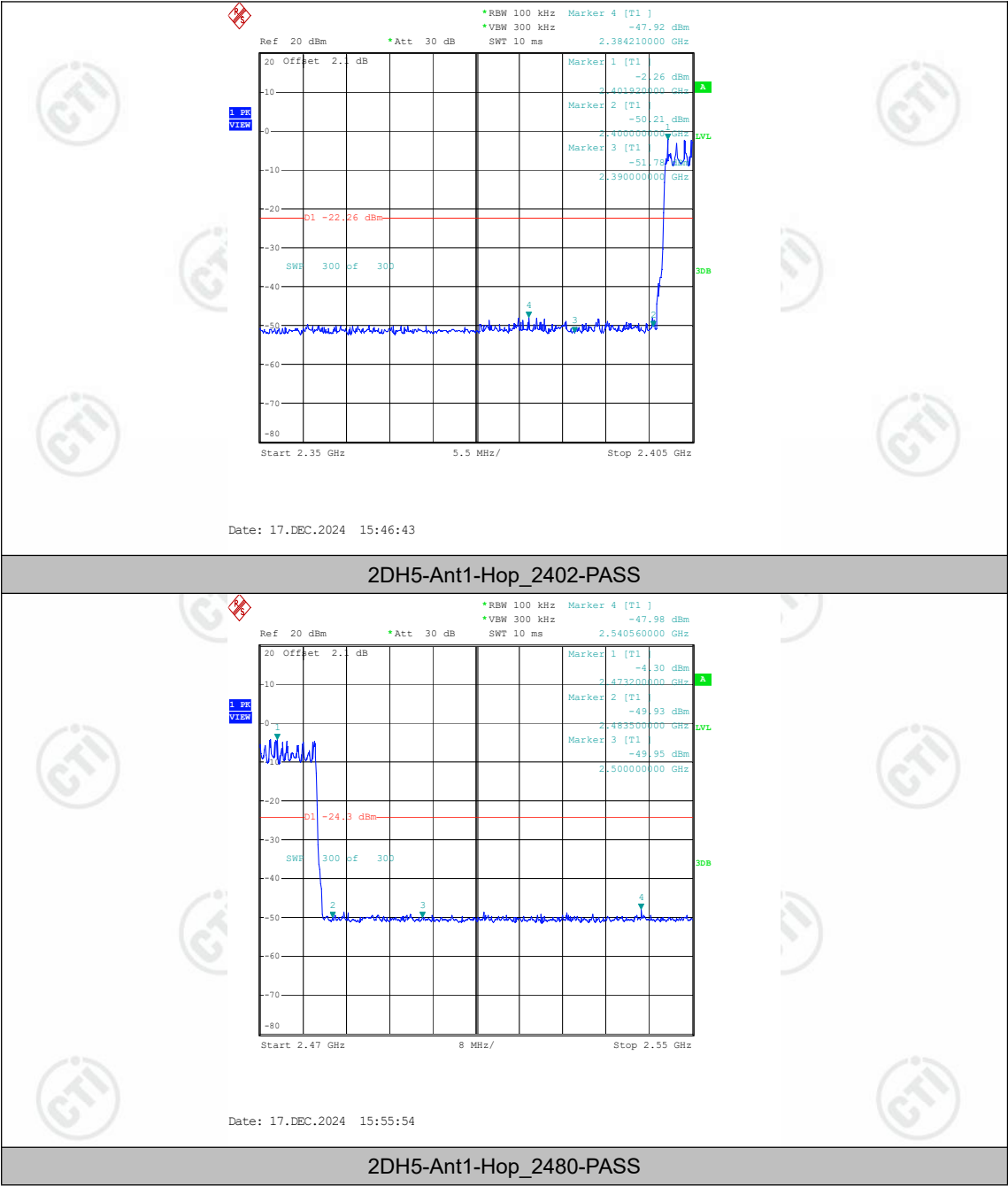
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-2.40	-47.05	≤ -22.4	PASS
DH5	Ant1	High	2480	-4.79	-49.54	≤ -24.79	PASS
DH5	Ant1	Low	Hop_2402	-2.42	-46.63	≤ -22.42	PASS
DH5	Ant1	High	Hop_2480	-4.02	-49.55	≤ -24.02	PASS
2DH5	Ant1	Low	2402	-2.11	-48.47	≤ -22.11	PASS
2DH5	Ant1	High	2480	-4.94	-49.94	≤ -24.94	PASS
2DH5	Ant1	Low	Hop_2402	-2.26	-47.92	≤ -22.26	PASS
2DH5	Ant1	High	Hop_2480	-4.30	-47.98	≤ -24.3	PASS
3DH5	Ant1	Low	2402	-3.05	-46.33	≤ -23.05	PASS
3DH5	Ant1	High	2480	-5.02	-49.62	≤ -25.02	PASS
3DH5	Ant1	Low	Hop_2402	-2.30	-46.48	≤ -22.3	PASS
3DH5	Ant1	High	Hop_2480	-4.04	-48.98	≤ -24.04	PASS

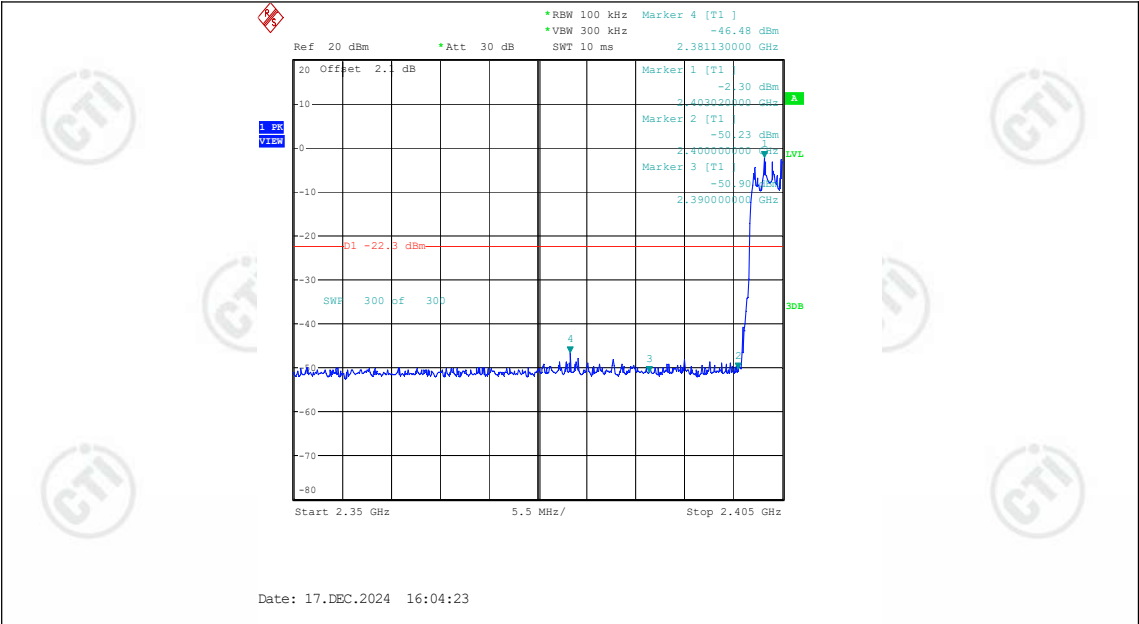
Test Graphs



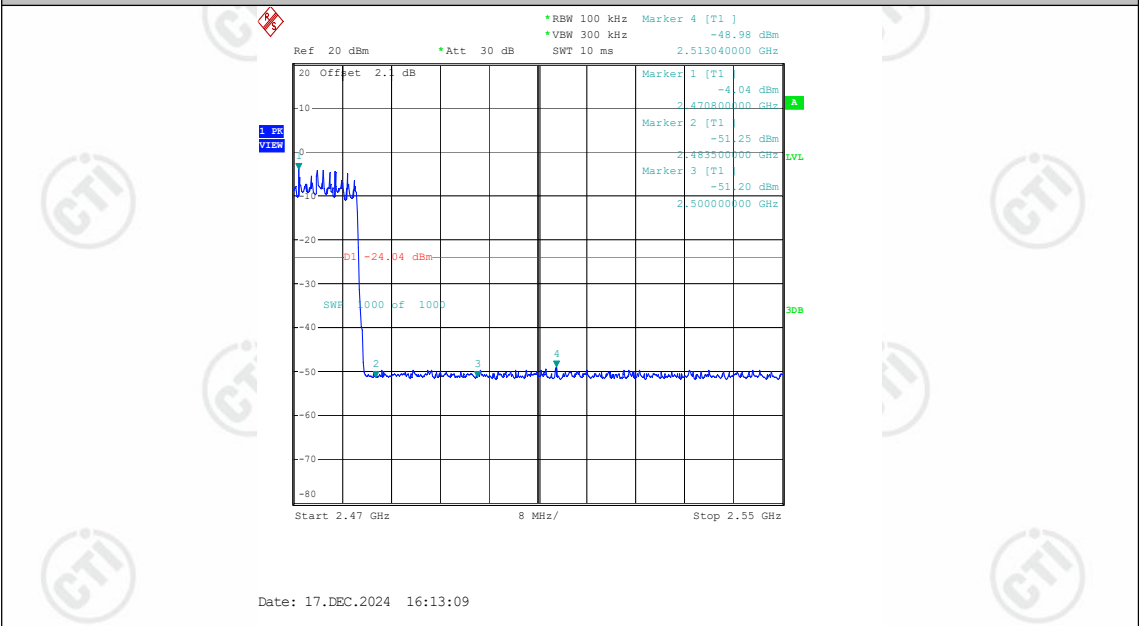








3DH5-Ant1-Hop_2402-PASS



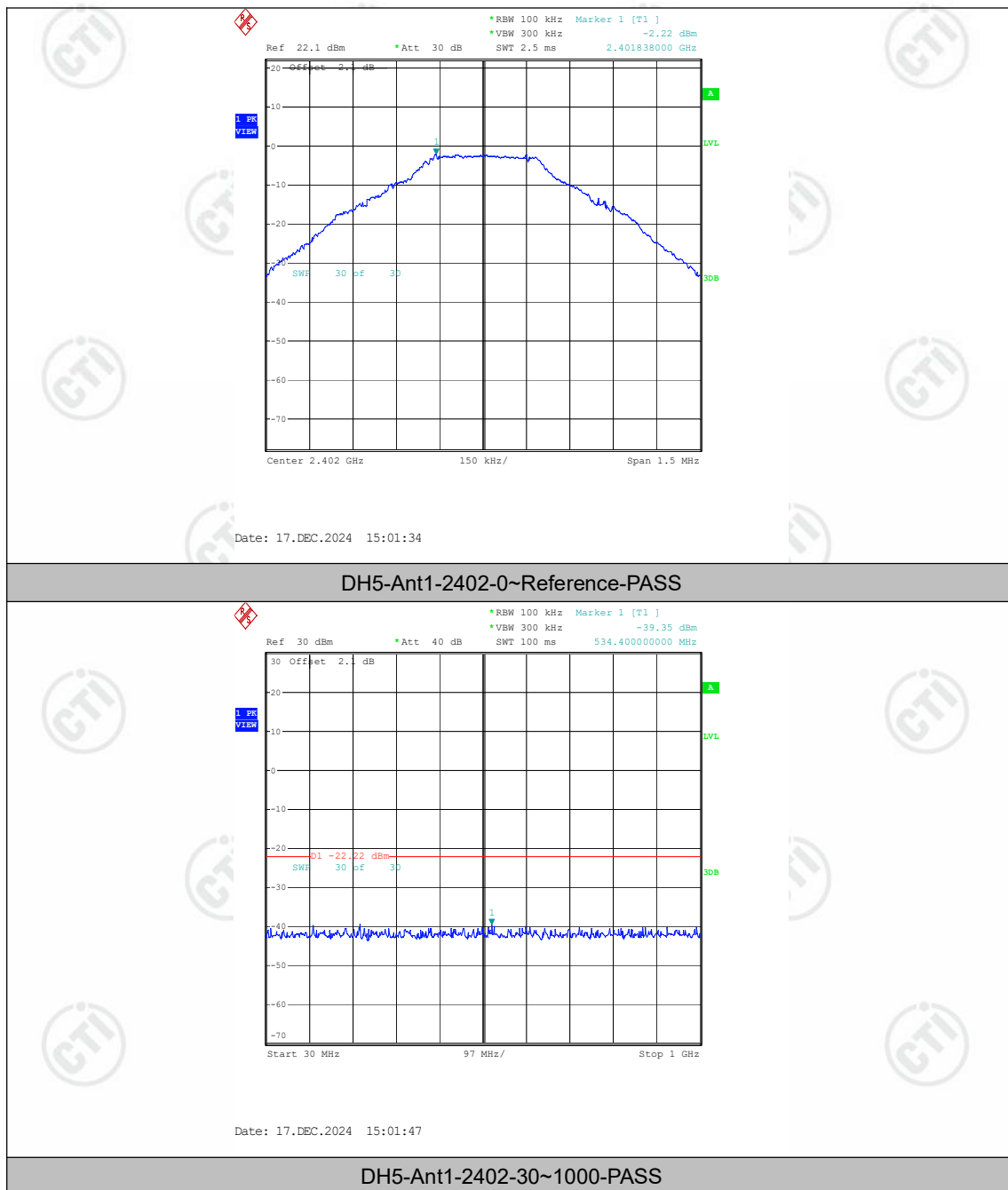
3DH5-Ant1-Hop_2480-PASS

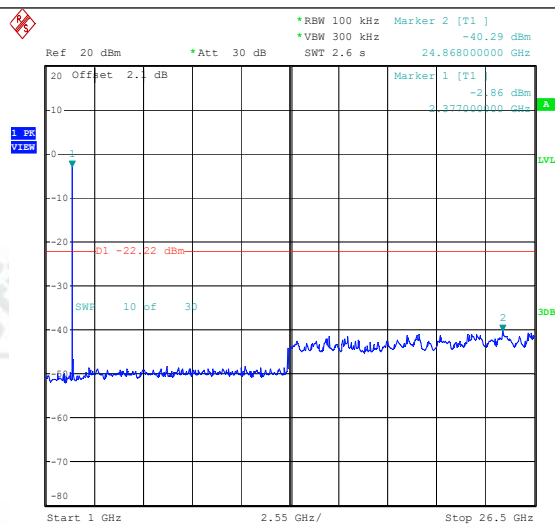
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-2.22	-2.22	---	PASS
DH5	Ant1	2402	30~1000	-2.22	-39.35	≤-22.22	PASS
DH5	Ant1	2402	1000~26500	-2.22	-40.29	≤-22.22	PASS
DH5	Ant1	2441	0~Reference	-2.85	-2.85	---	PASS
DH5	Ant1	2441	30~1000	-2.85	-39.04	≤-22.85	PASS
DH5	Ant1	2441	1000~26500	-2.85	-40.09	≤-22.85	PASS
DH5	Ant1	2480	0~Reference	-4.91	-4.91	---	PASS
DH5	Ant1	2480	30~1000	-4.91	-39.36	≤-24.91	PASS
DH5	Ant1	2480	1000~26500	-4.91	-39.93	≤-24.91	PASS
2DH5	Ant1	2402	0~Reference	-2.11	-2.11	---	PASS
2DH5	Ant1	2402	30~1000	-2.11	-39.16	≤-22.11	PASS
2DH5	Ant1	2402	1000~26500	-2.11	-39.89	≤-22.11	PASS
2DH5	Ant1	2441	0~Reference	-2.87	-2.87	---	PASS
2DH5	Ant1	2441	30~1000	-2.87	-39.47	≤-22.87	PASS
2DH5	Ant1	2441	1000~26500	-2.87	-40.54	≤-22.87	PASS
2DH5	Ant1	2480	0~Reference	-4.91	-4.91	---	PASS
2DH5	Ant1	2480	30~1000	-4.91	-39.19	≤-24.91	PASS
2DH5	Ant1	2480	1000~26500	-4.91	-40.22	≤-24.91	PASS
3DH5	Ant1	2402	0~Reference	-2.05	-2.05	---	PASS
3DH5	Ant1	2402	30~1000	-2.05	-39.37	≤-22.05	PASS
3DH5	Ant1	2402	1000~26500	-2.05	-39.72	≤-22.05	PASS
3DH5	Ant1	2441	0~Reference	-2.85	-2.85	---	PASS
3DH5	Ant1	2441	30~1000	-2.85	-39.28	≤-22.85	PASS
3DH5	Ant1	2441	1000~26500	-2.85	-39.71	≤-22.85	PASS
3DH5	Ant1	2480	0~Reference	-4.87	-4.87	---	PASS
3DH5	Ant1	2480	30~1000	-4.87	-39.64	≤-24.87	PASS
3DH5	Ant1	2480	1000~26500	-4.87	-39.93	≤-24.87	PASS

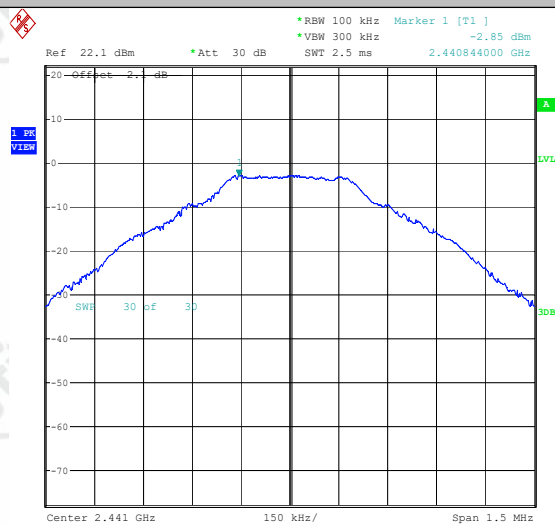
Test Graphs





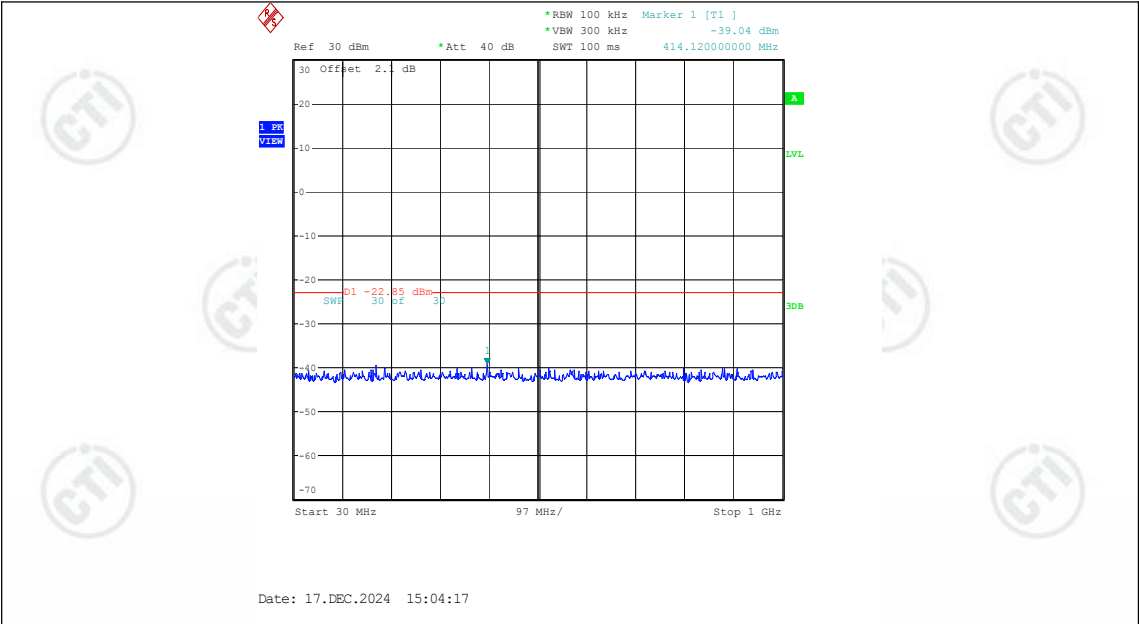
Date: 17.DEC.2024 15:02:26

DH5-Ant1-2402-1000~26500-PASS

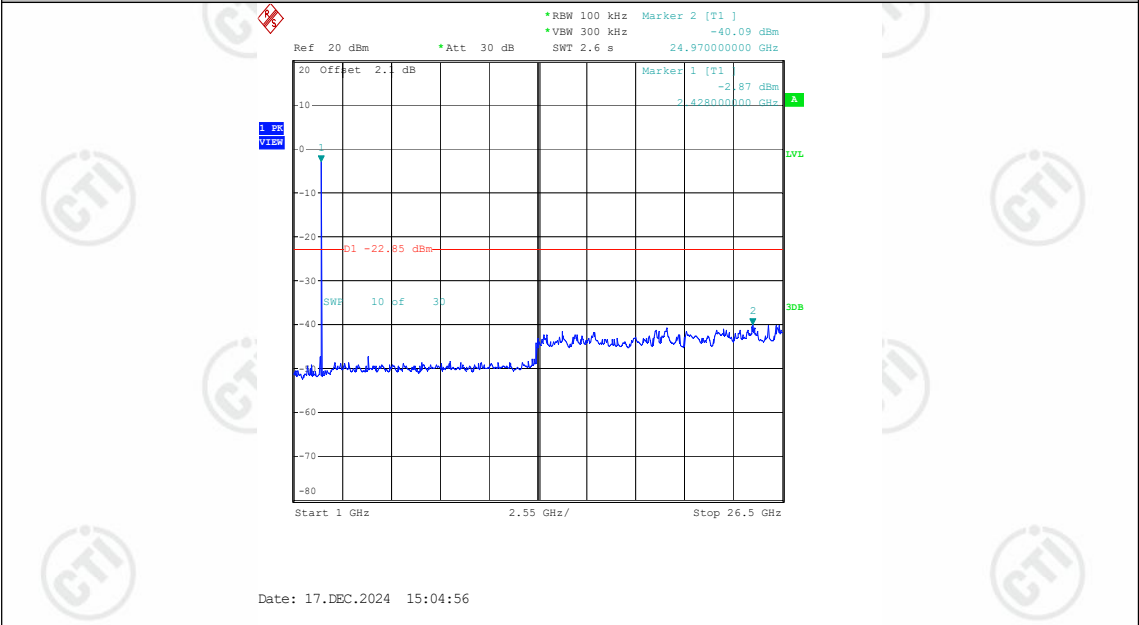


Date: 17.DEC.2024 15:04:05

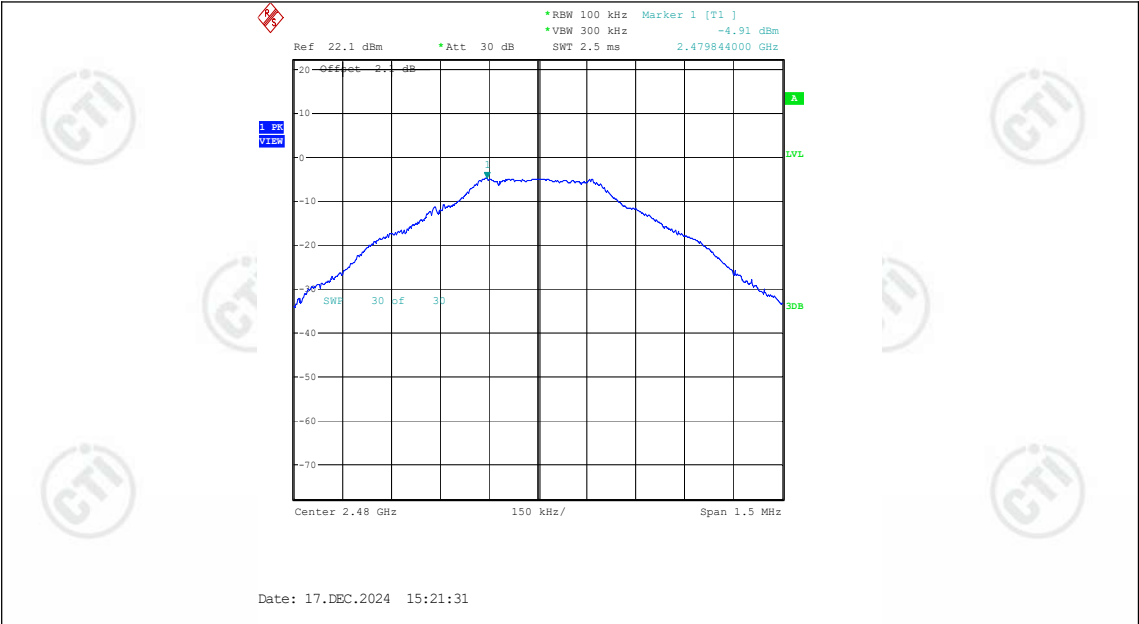
DH5-Ant1-2441-0~Reference-PASS



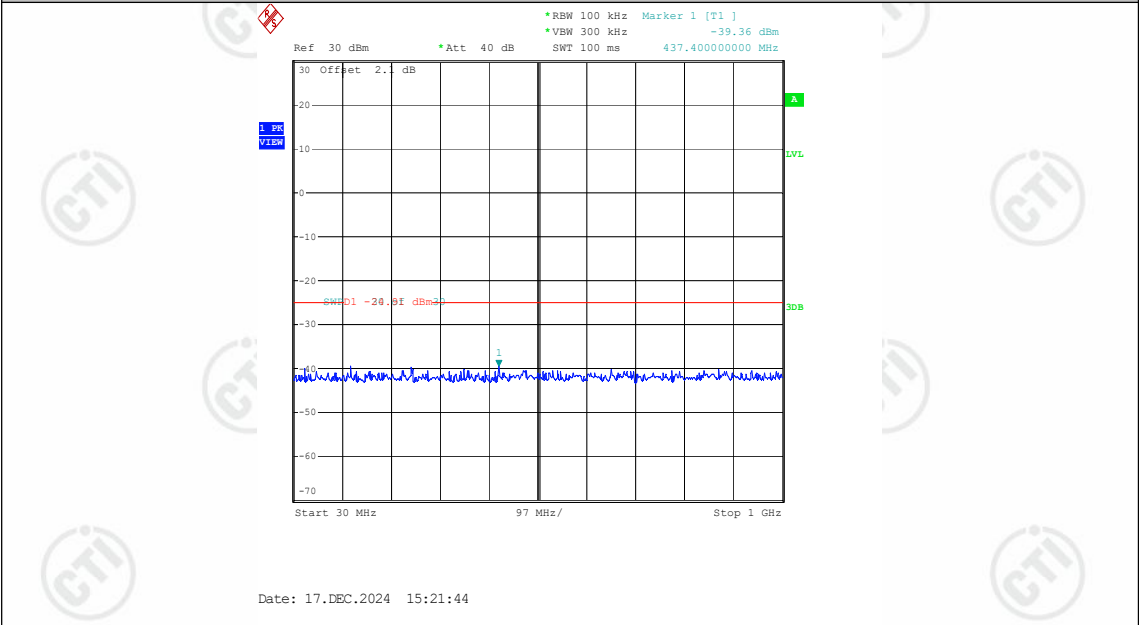
DH5-Ant1-2441-30~1000-PASS



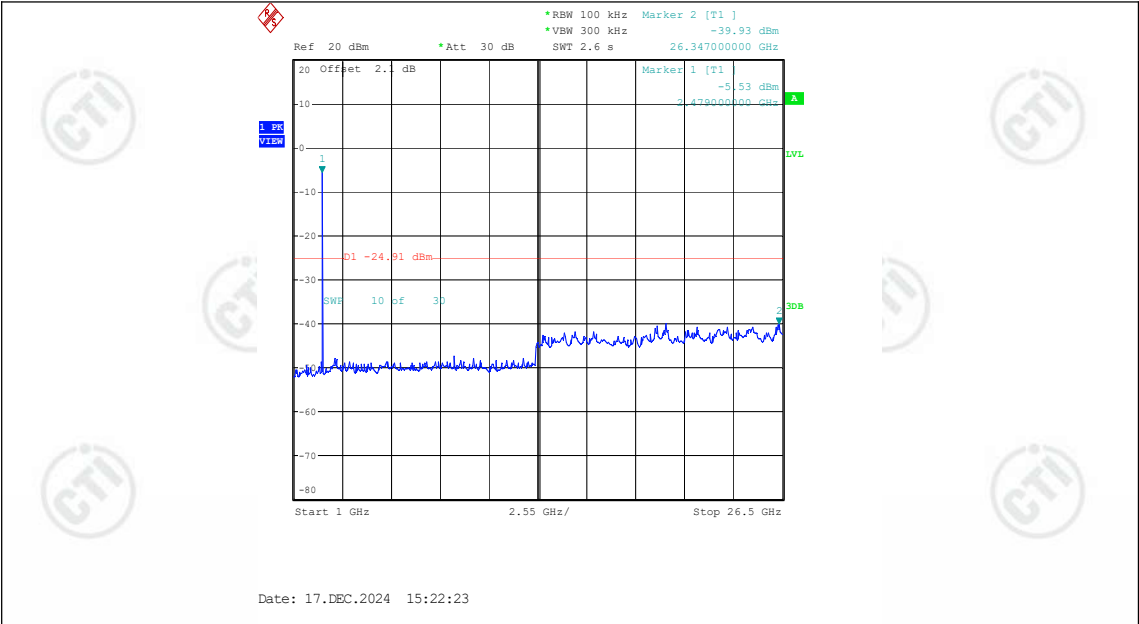
DH5-Ant1-2441-1000~26500-PASS



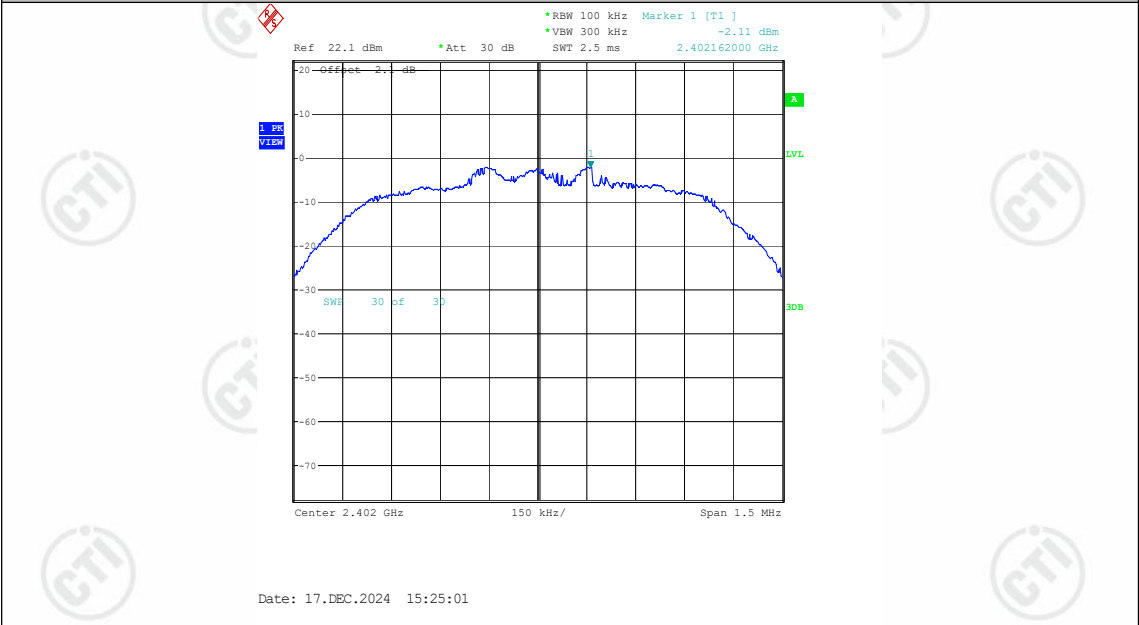
DH5-Ant1-2480-0~Reference-PASS



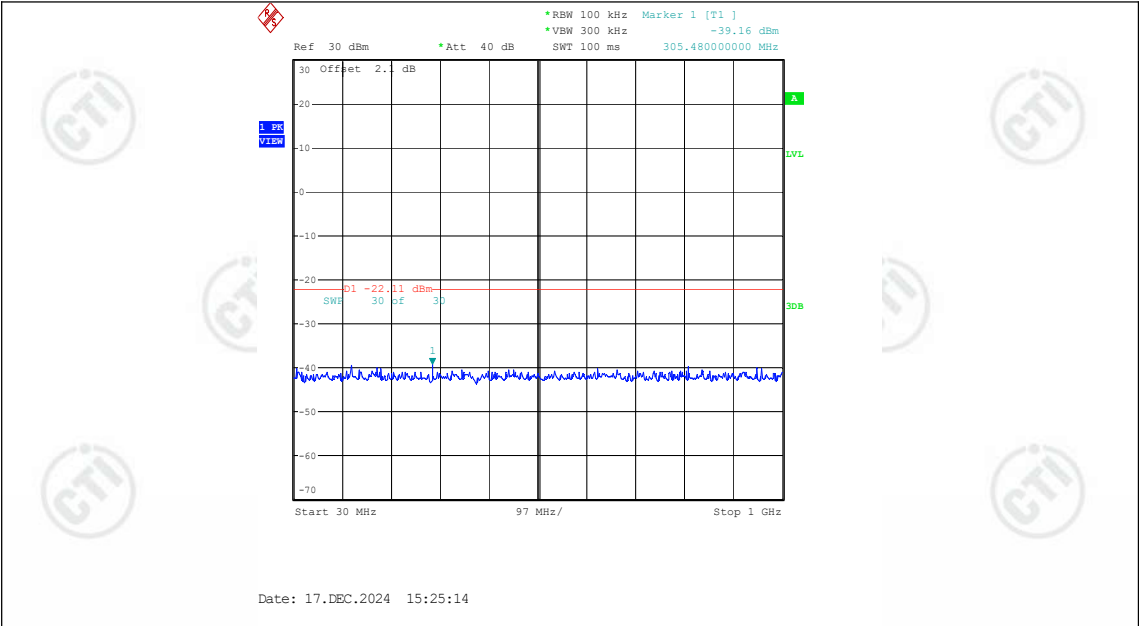
DH5-Ant1-2480-30~1000-PASS



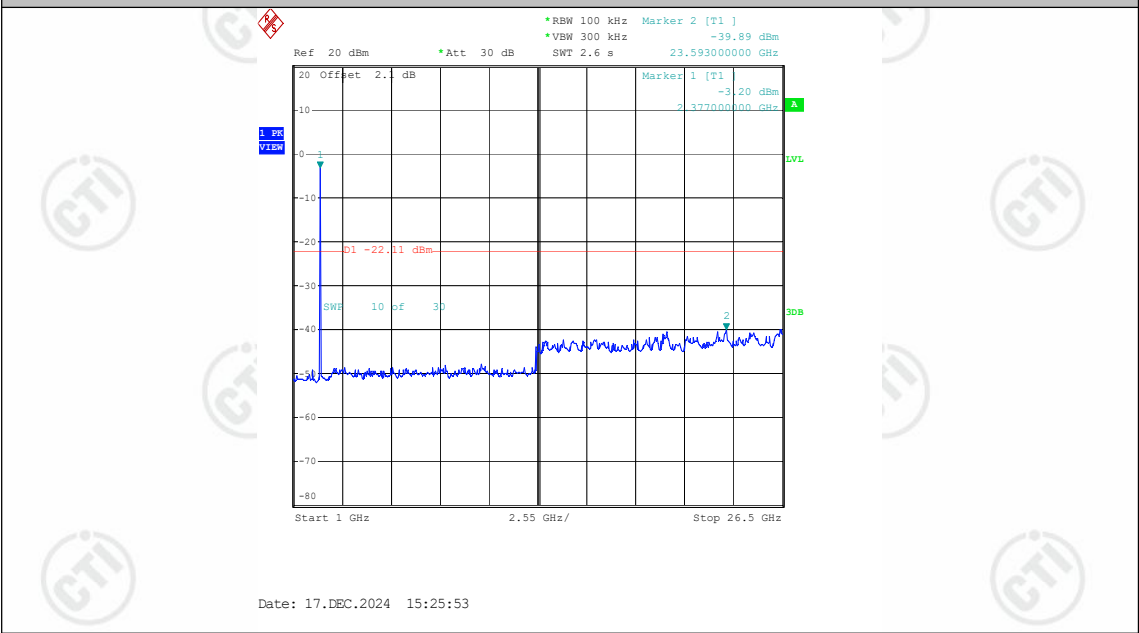
DH5-Ant1-2480-1000~26500-PASS



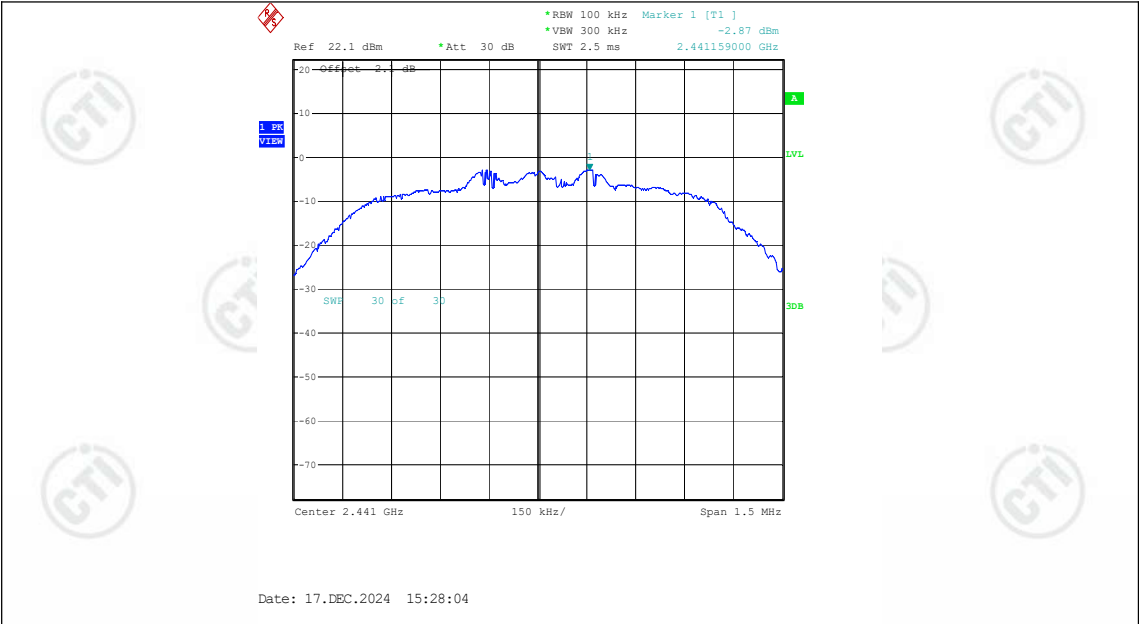
2DH5-Ant1-2402-0~Reference-PASS



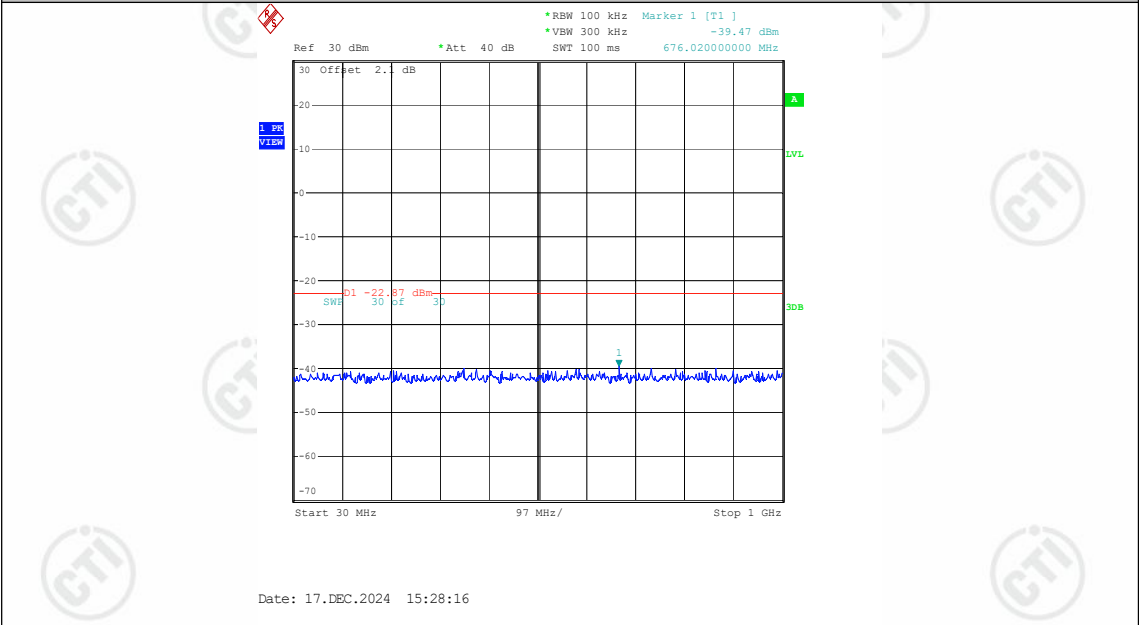
2DH5-Ant1-2402-30~1000-PASS



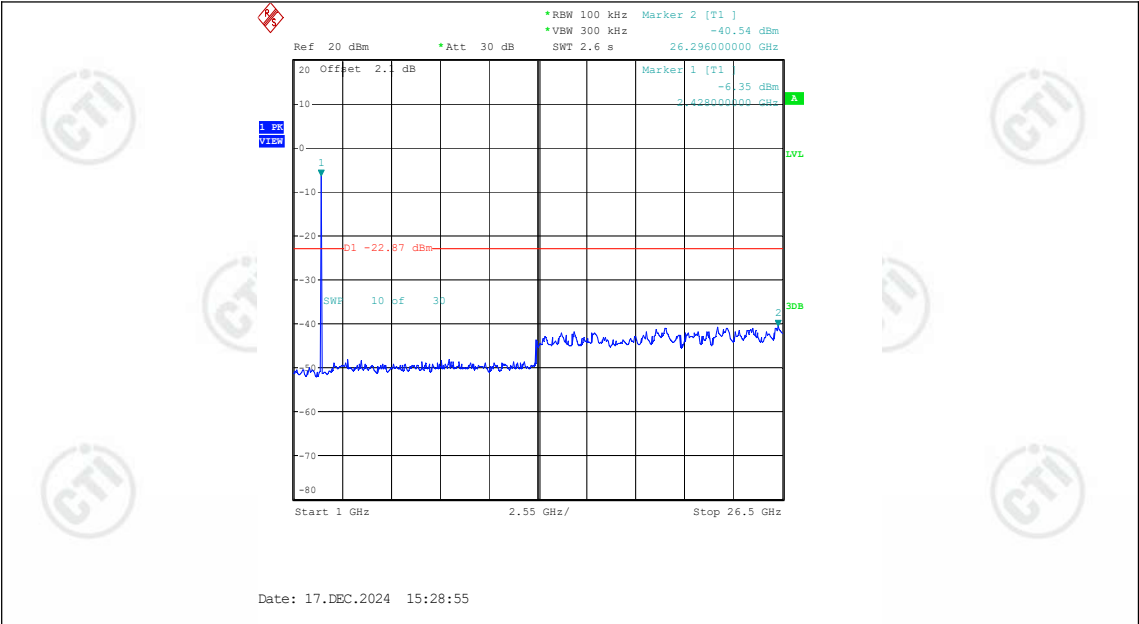
2DH5-Ant1-2402-1000~26500-PASS



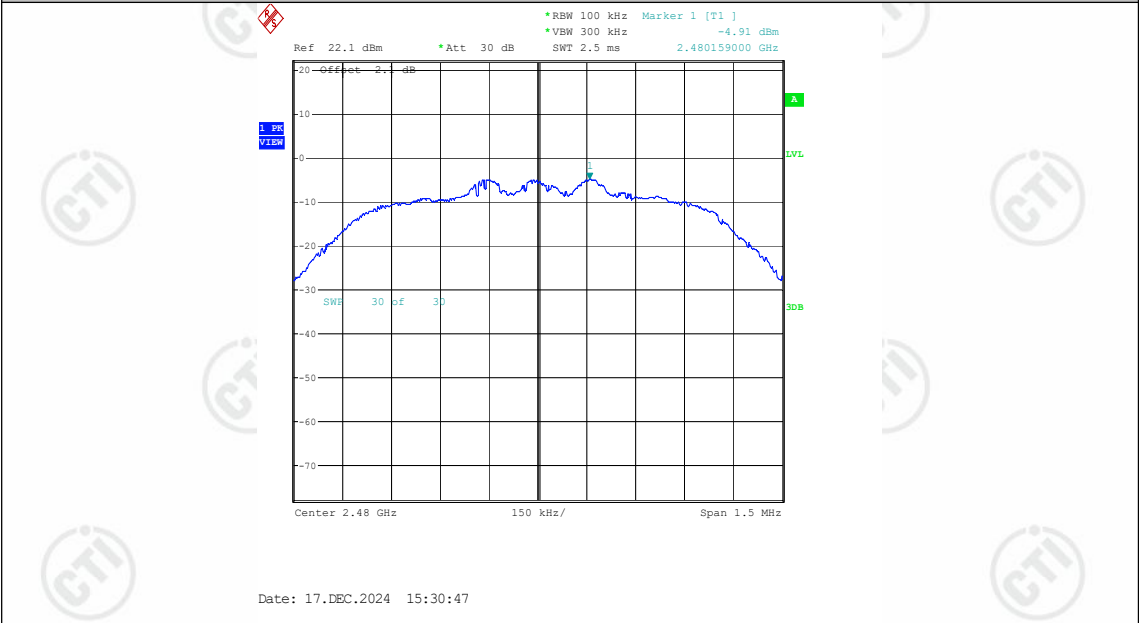
2DH5-Ant1-2441-0~Reference-PASS



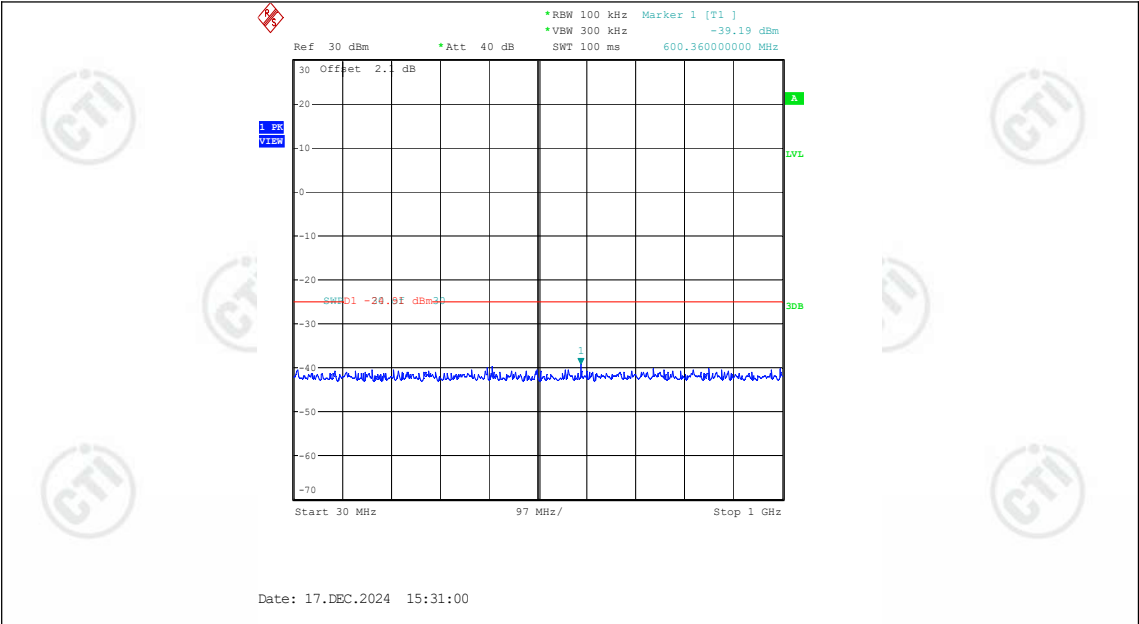
2DH5-Ant1-2441-30~1000-PASS



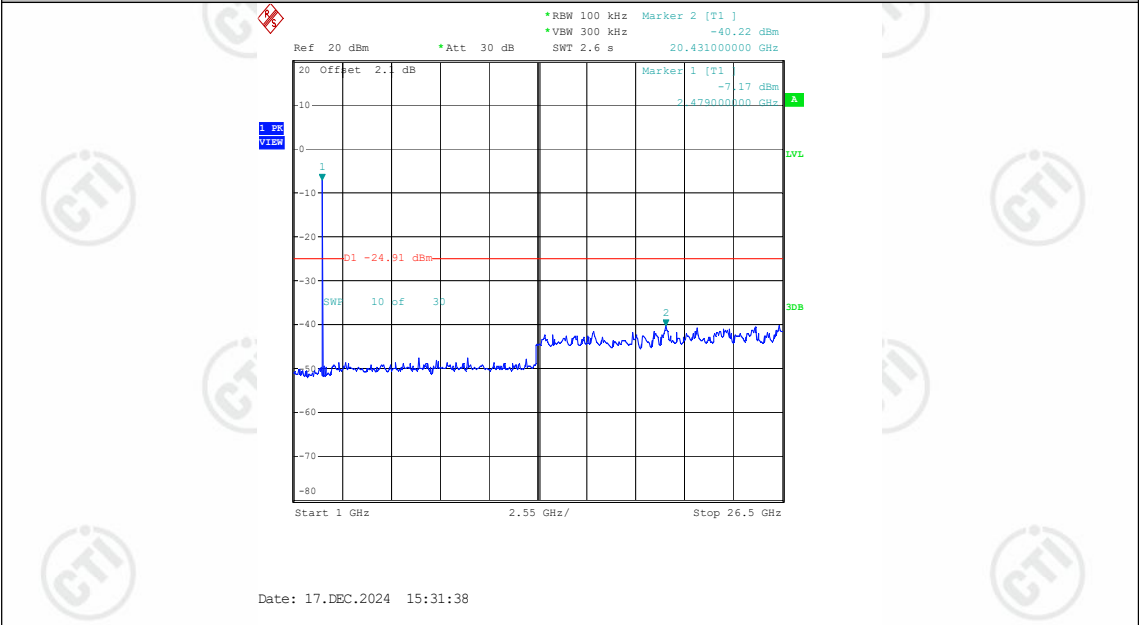
2DH5-Ant1-2441-1000~26500-PASS



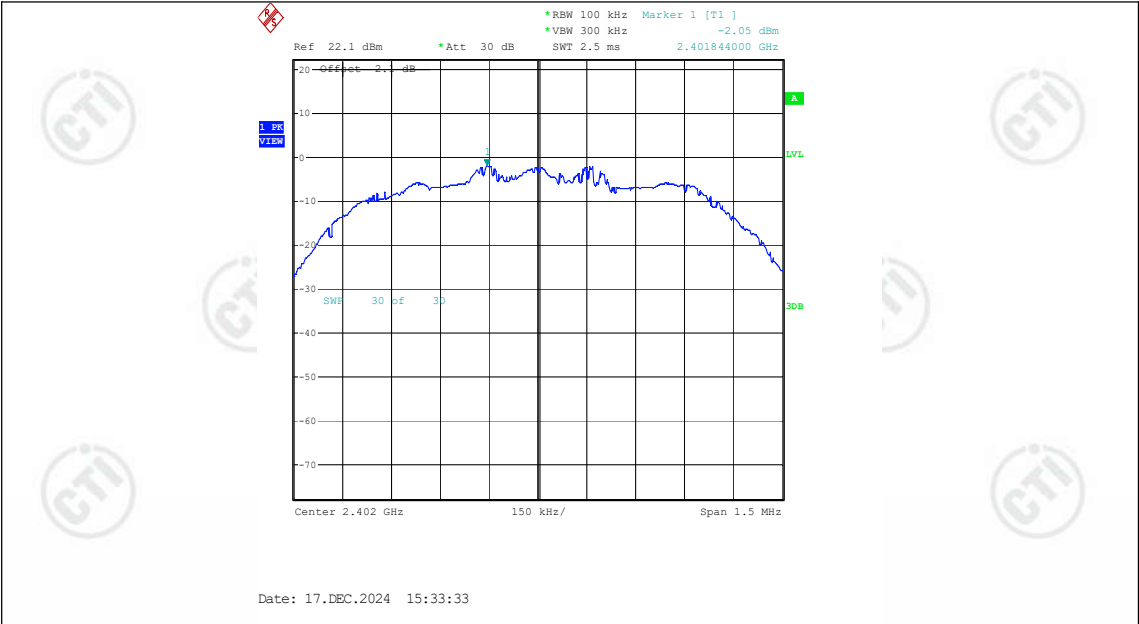
2DH5-Ant1-2480-0~Reference-PASS



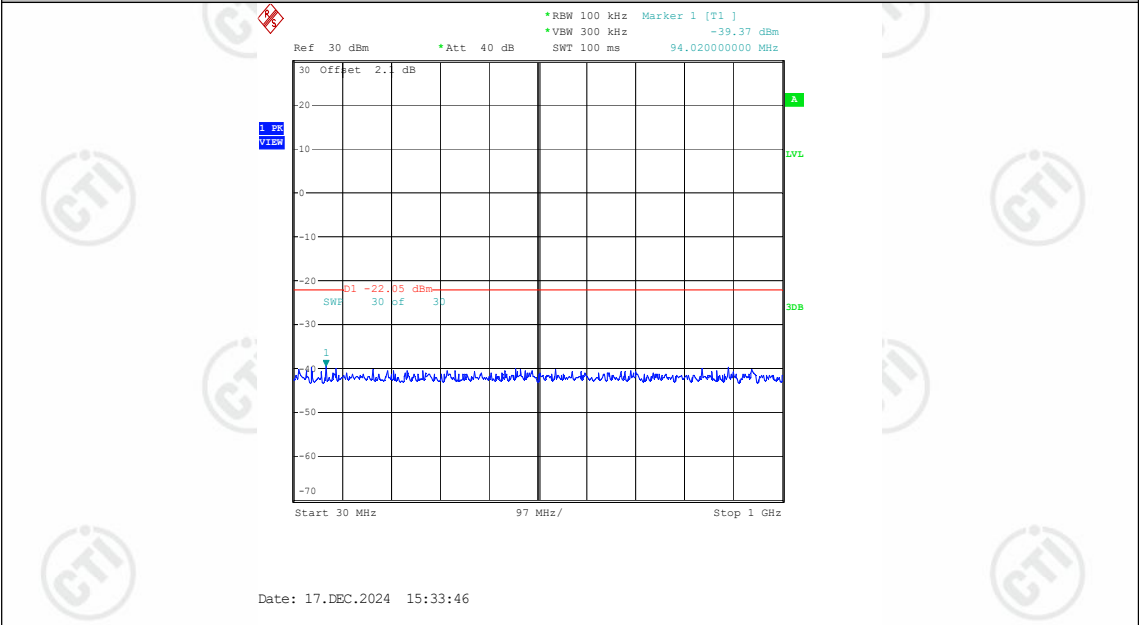
2DH5-Ant1-2480-30~1000-PASS



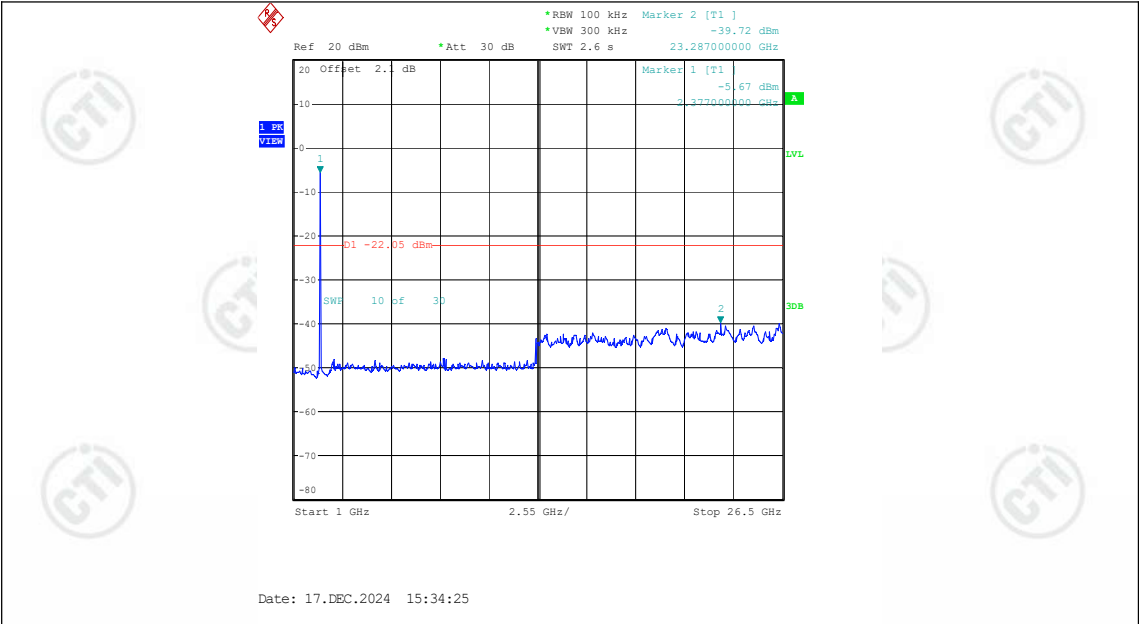
2DH5-Ant1-2480-1000~26500-PASS



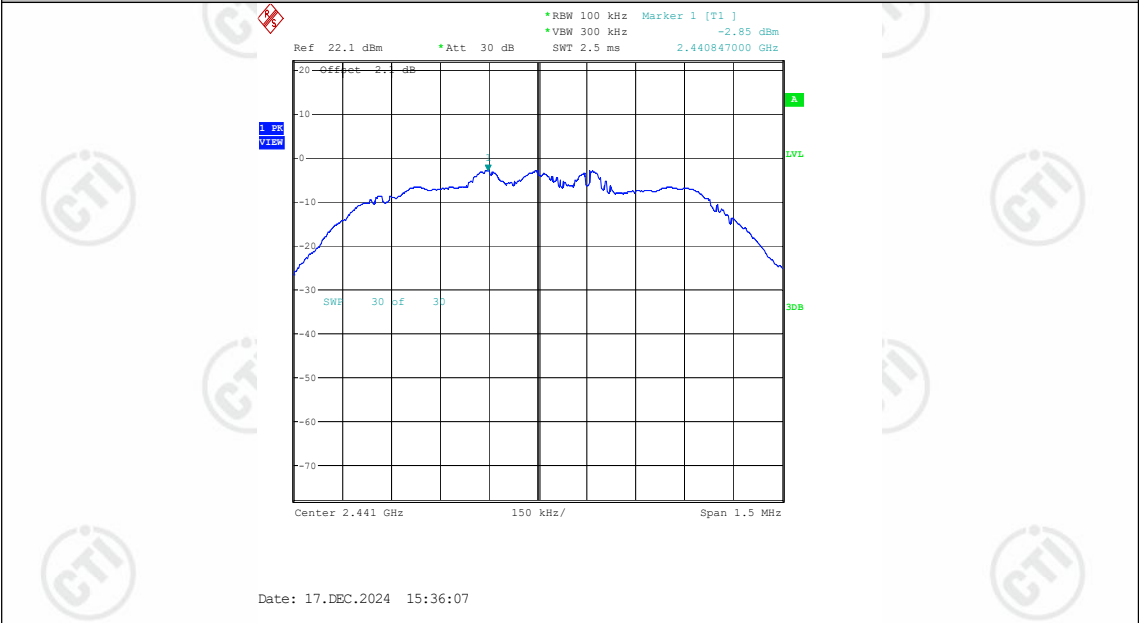
3DH5-Ant1-2402-0~Reference-PASS



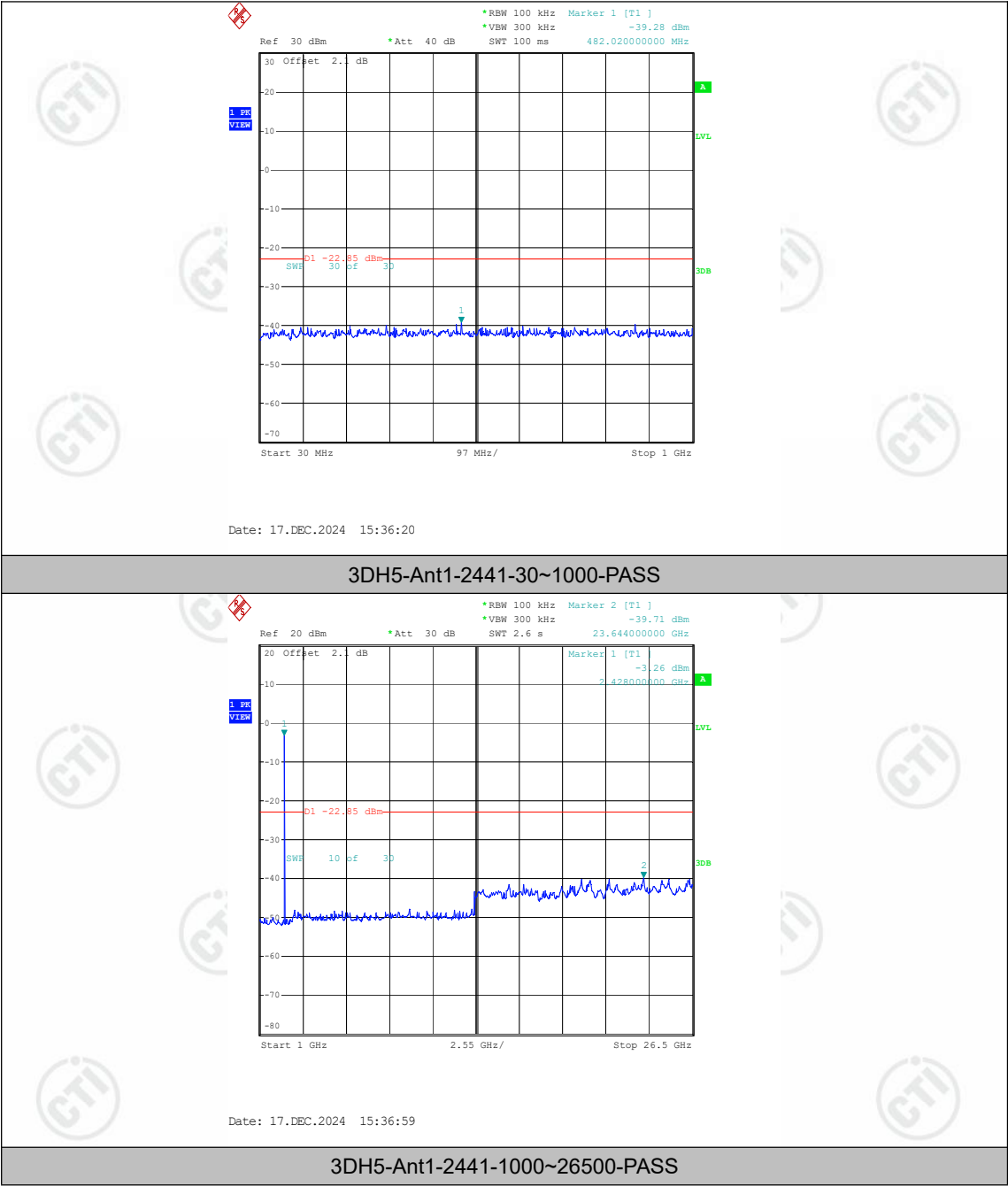
3DH5-Ant1-2402-30~1000-PASS

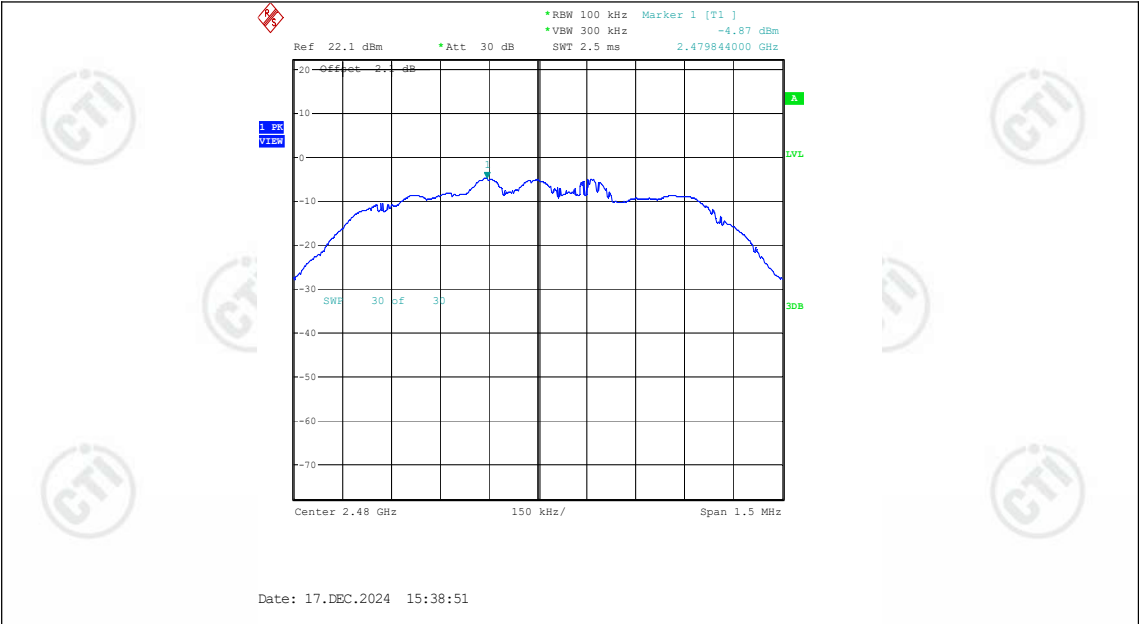


3DH5-Ant1-2402-1000~26500-PASS

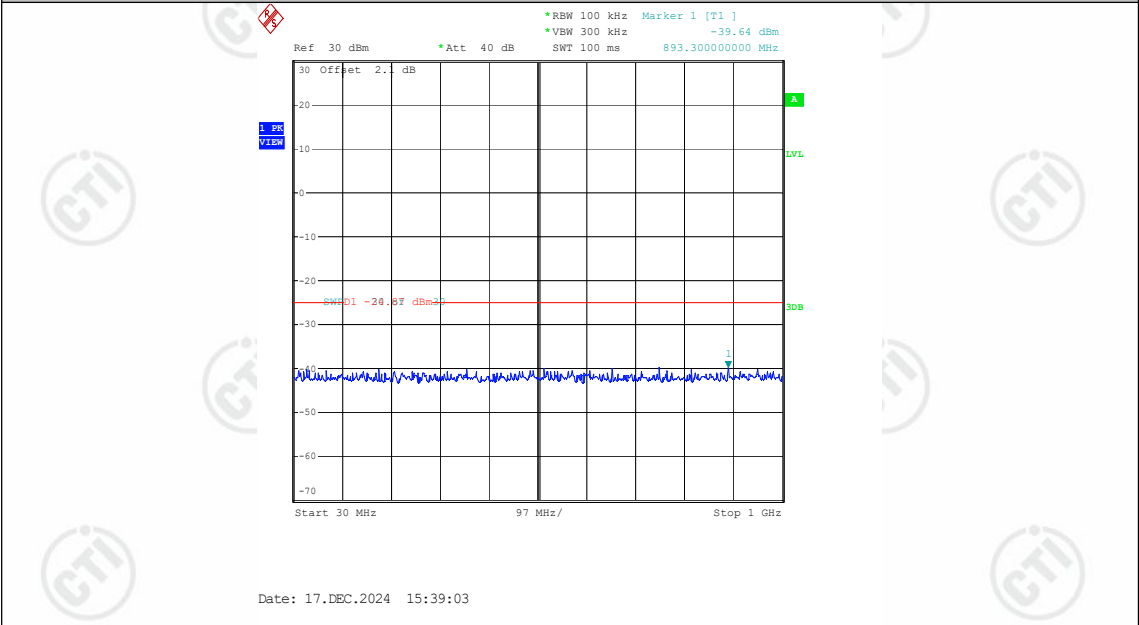


3DH5-Ant1-2441-0~Reference-PASS

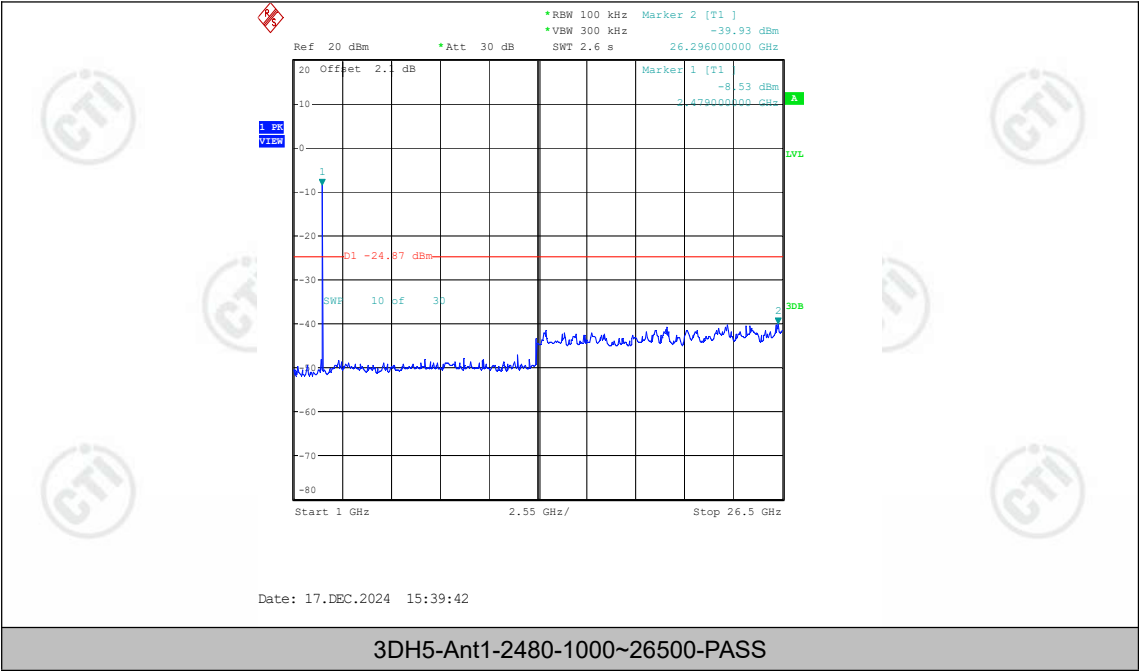




3DH5-Ant1-2480-0~Reference-PASS



3DH5-Ant1-2480-30~1000-PASS

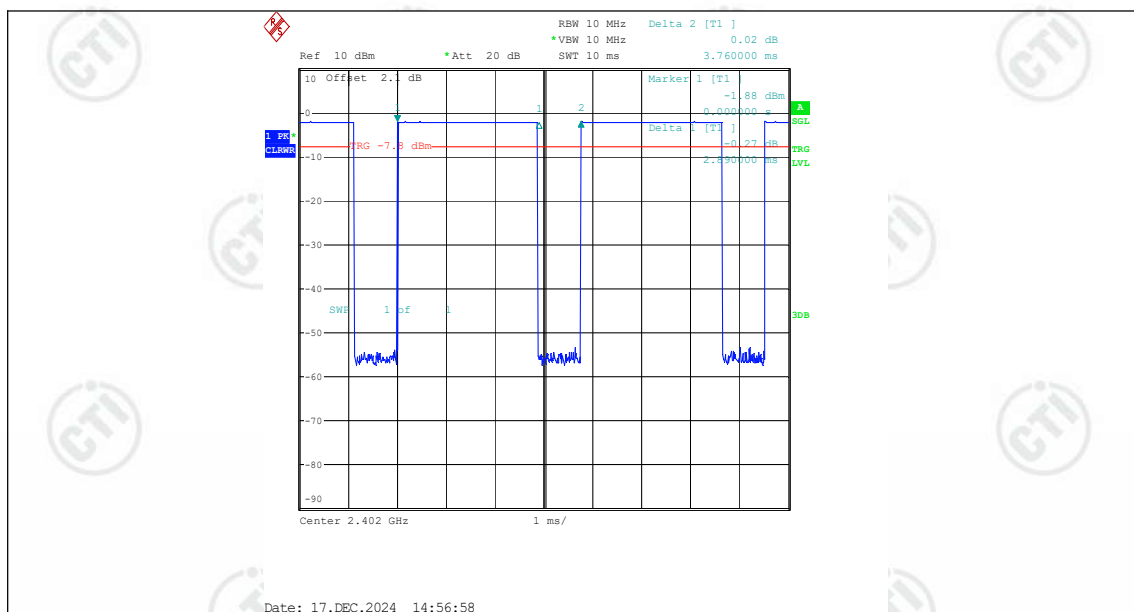


Appendix I: Duty Cycle

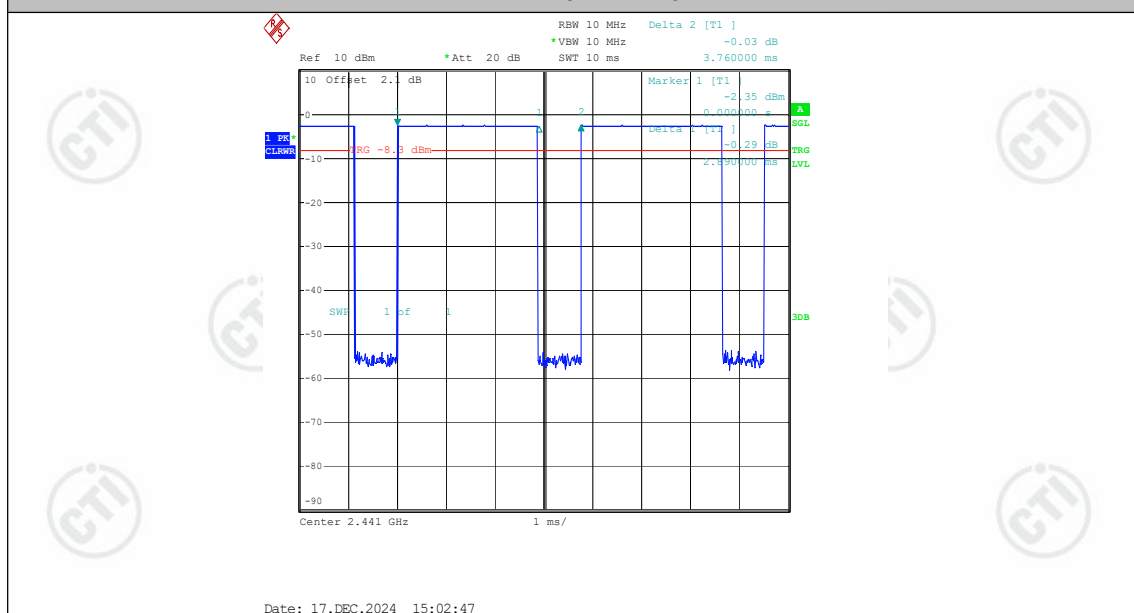
Test Result

TestMode	Antenna	Frequency[MHz]	ON Time[ms]	Period[ms]	Duty Cycle[%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.89	3.76	76.86	1.14
DH5	Ant1	2441	2.89	3.76	76.86	1.14
DH5	Ant1	2480	2.90	3.77	76.92	1.14
2DH5	Ant1	2402	2.90	3.76	77.13	1.13
2DH5	Ant1	2441	2.90	3.77	76.92	1.14
2DH5	Ant1	2480	2.89	3.76	76.86	1.14
3DH5	Ant1	2402	2.90	3.76	77.13	1.13
3DH5	Ant1	2441	2.89	3.76	76.86	1.14
3DH5	Ant1	2480	2.90	3.76	77.13	1.13

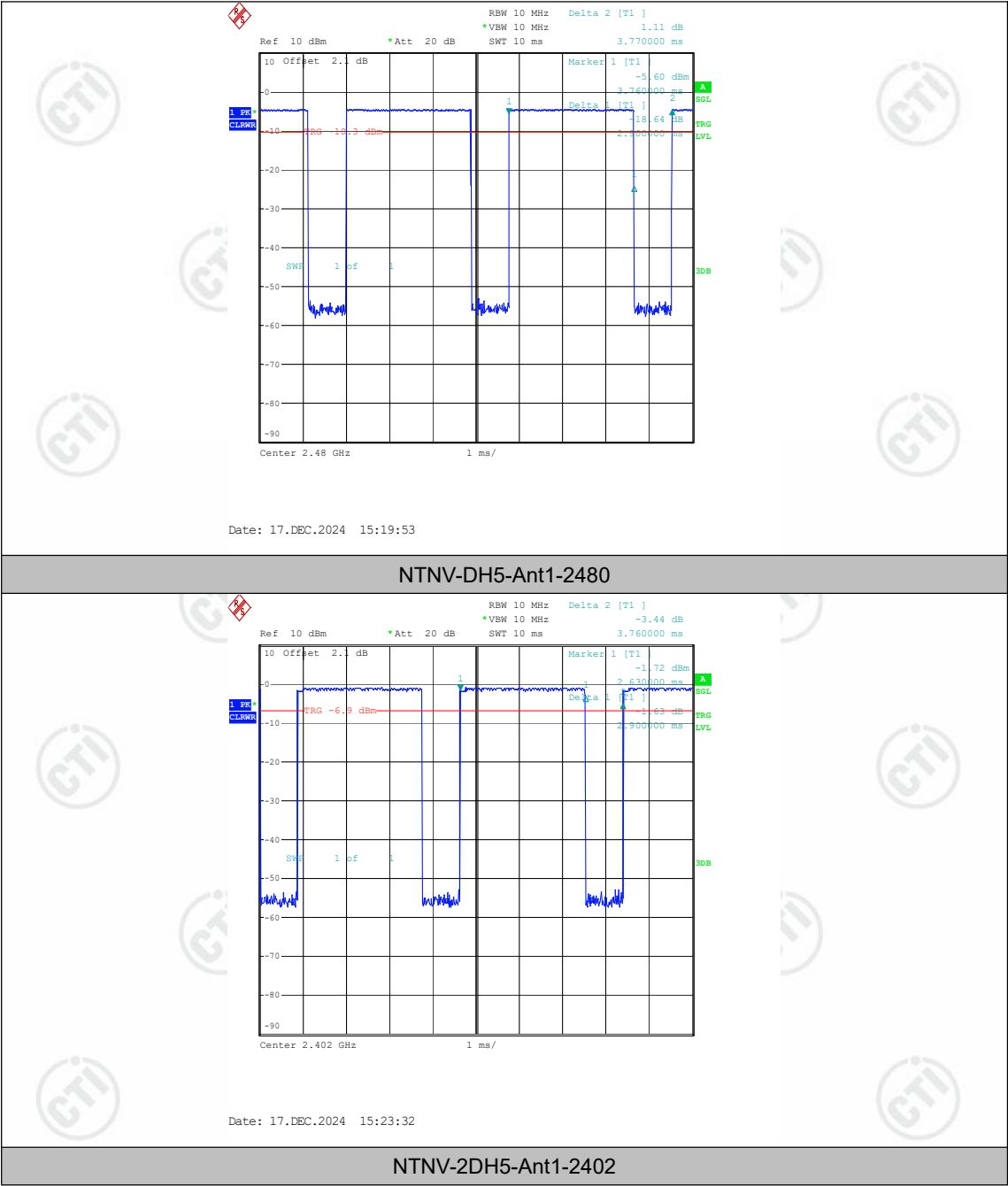
Test Graphs

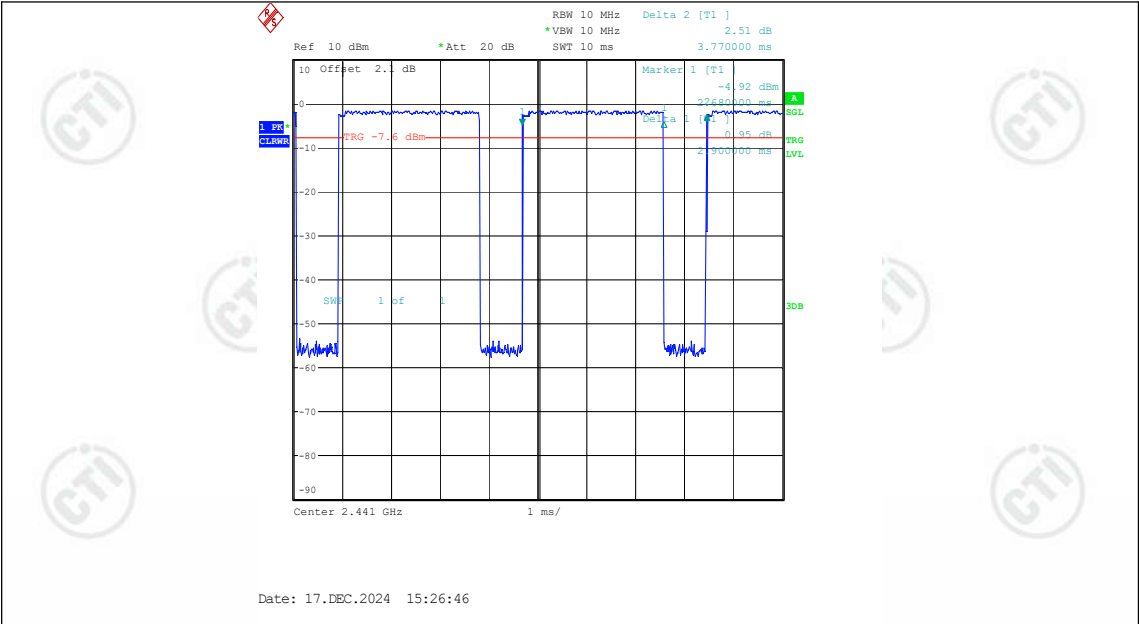


NTNV-DH5-Ant1-2402

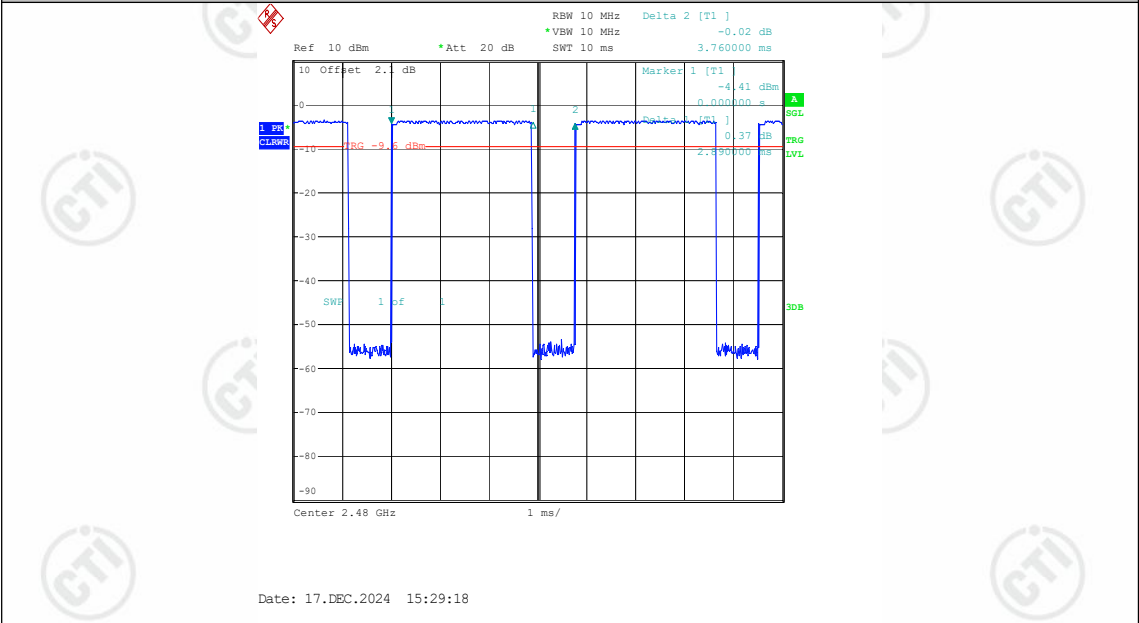


NTNV-DH5-Ant1-2441

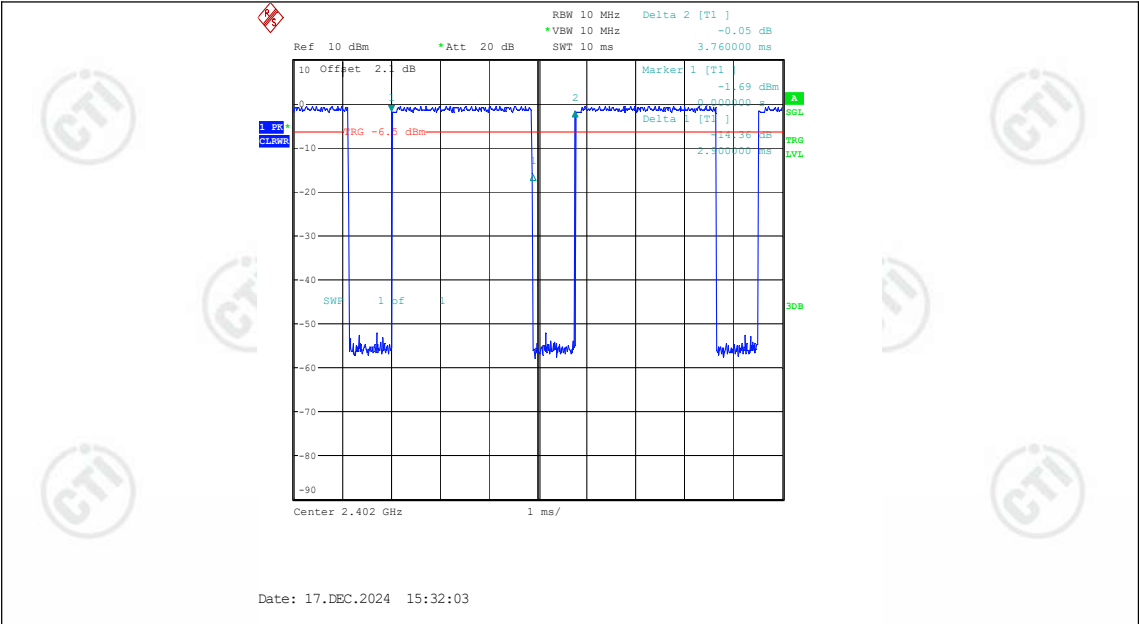




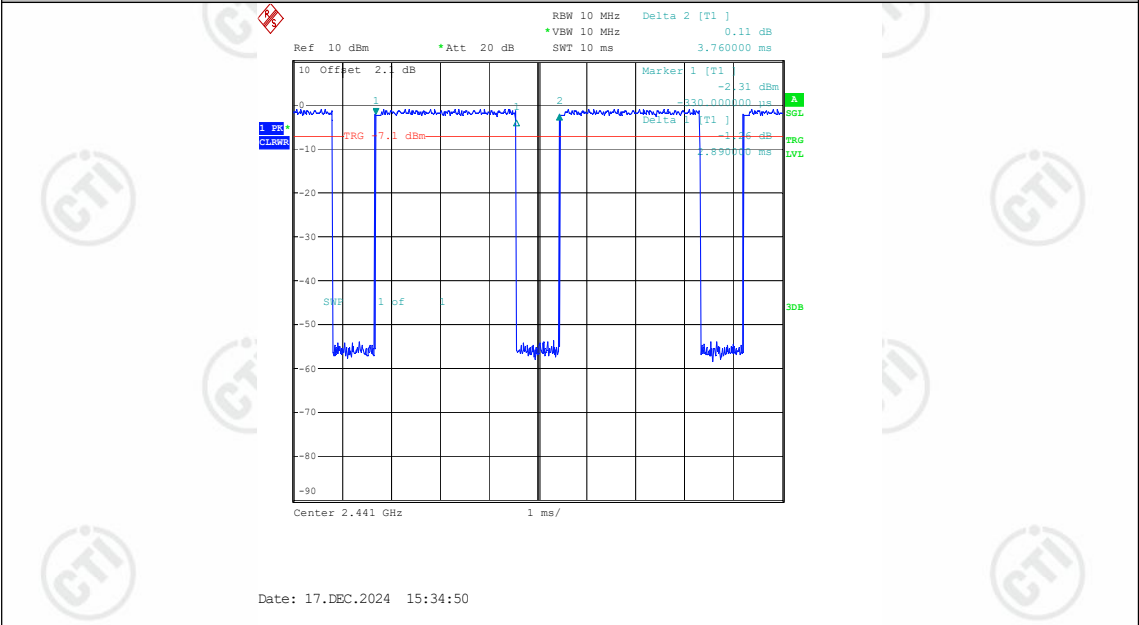
NTVN-2DH5-Ant1-2441



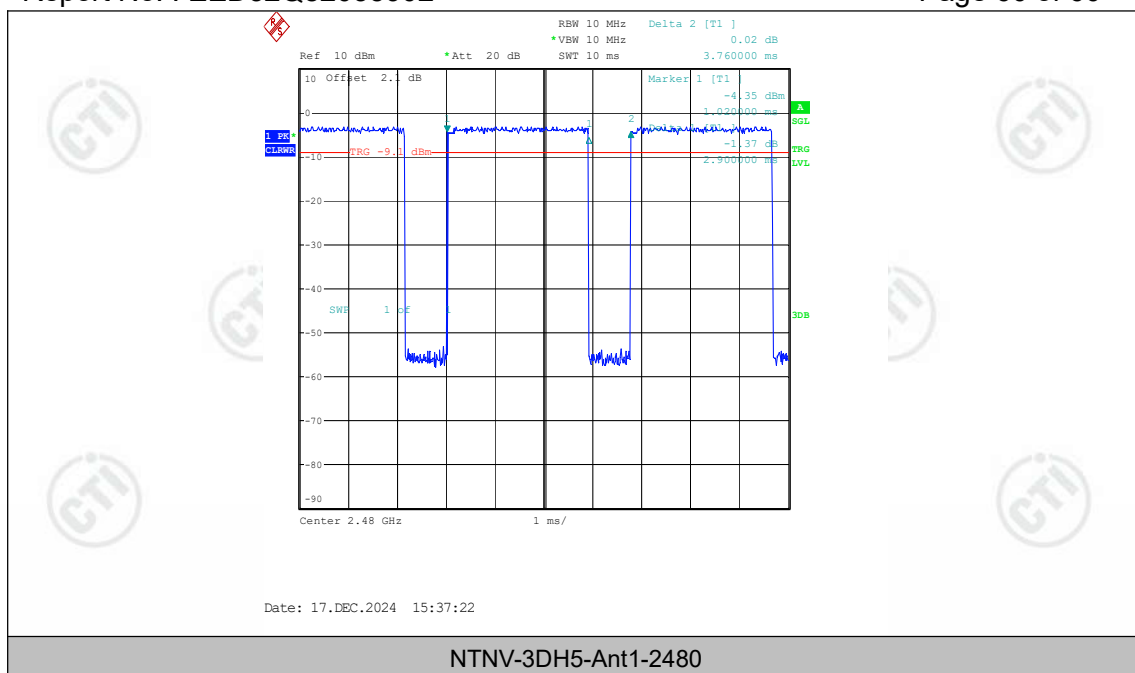
NTVN-2DH5-Ant1-2440



NTNV-3DH5-Ant1-2402



NTNV-3DH5-Ant1-2441



END OF REPORT