

Appendix: Bluetooth Classic

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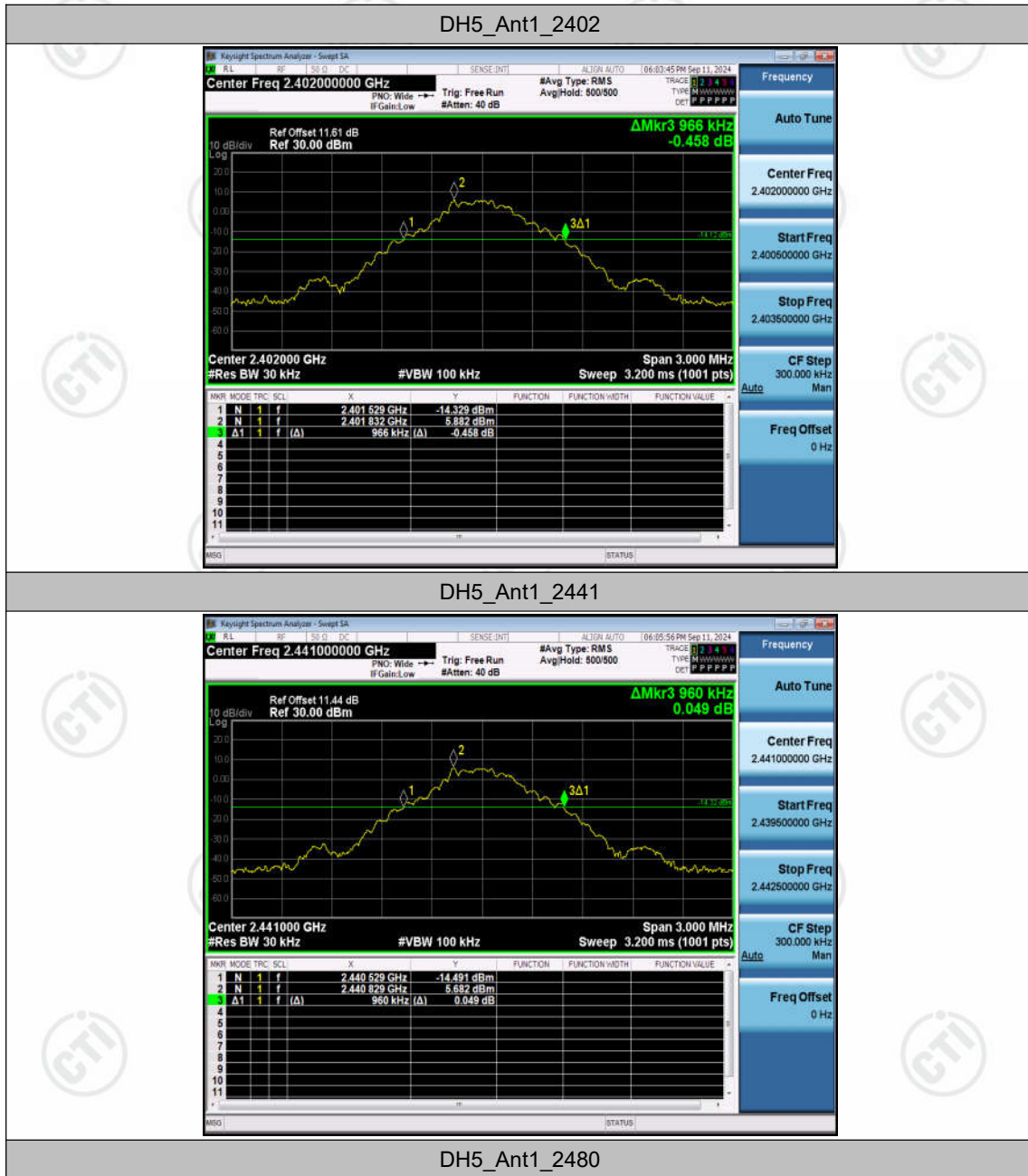
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Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.966	2401.529	2402.495	---	---
		2441	0.960	2440.529	2441.489	---	---
		2480	0.963	2479.526	2480.489	---	---
2DH5	Ant1	2402	1.269	2401.367	2402.636	---	---
		2441	1.275	2440.367	2441.642	---	---
		2480	1.275	2479.364	2480.639	---	---
3DH5	Ant1	2402	1.287	2401.352	2402.639	---	---
		2441	1.305	2440.346	2441.651	---	---
		2480	1.308	2479.346	2480.654	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



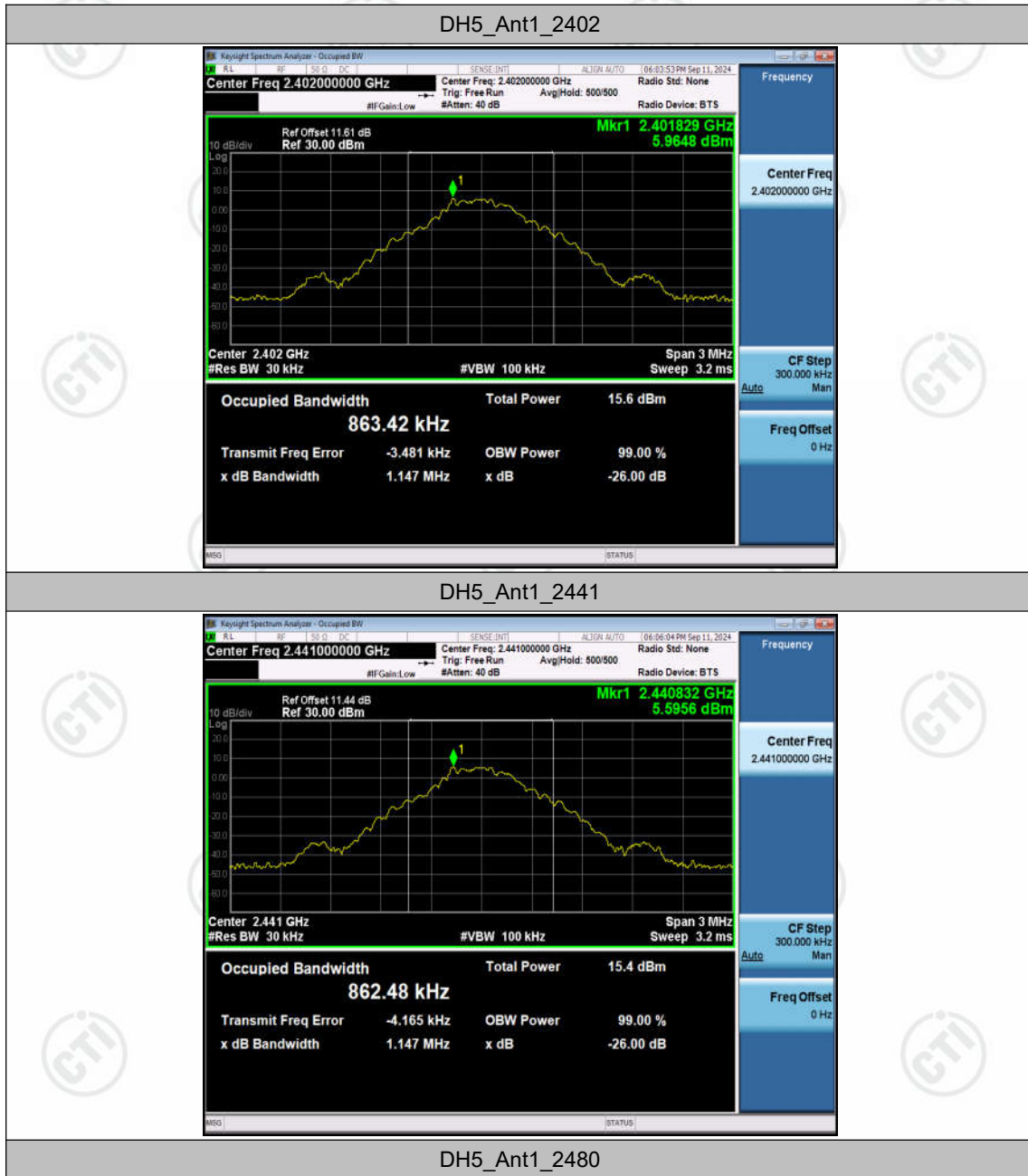
3DH5_Ant1_2480



Appendix B: Occupied Channel Bandwidth**Test Result**

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.86342	2401.5648	2402.4282	---	---
		2441	0.86248	2440.5646	2441.4271	---	---
		2480	0.86718	2479.5612	2480.4284	---	---
2DH5	Ant1	2402	1.1521	2401.4185	2402.5706	---	---
		2441	1.1704	2440.4096	2441.5800	---	---
		2480	1.1716	2479.4084	2480.5800	---	---
3DH5	Ant1	2402	1.1627	2401.4174	2402.5801	---	---
		2441	1.1893	2440.4028	2441.5921	---	---
		2480	1.1832	2479.4067	2480.5899	---	---

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

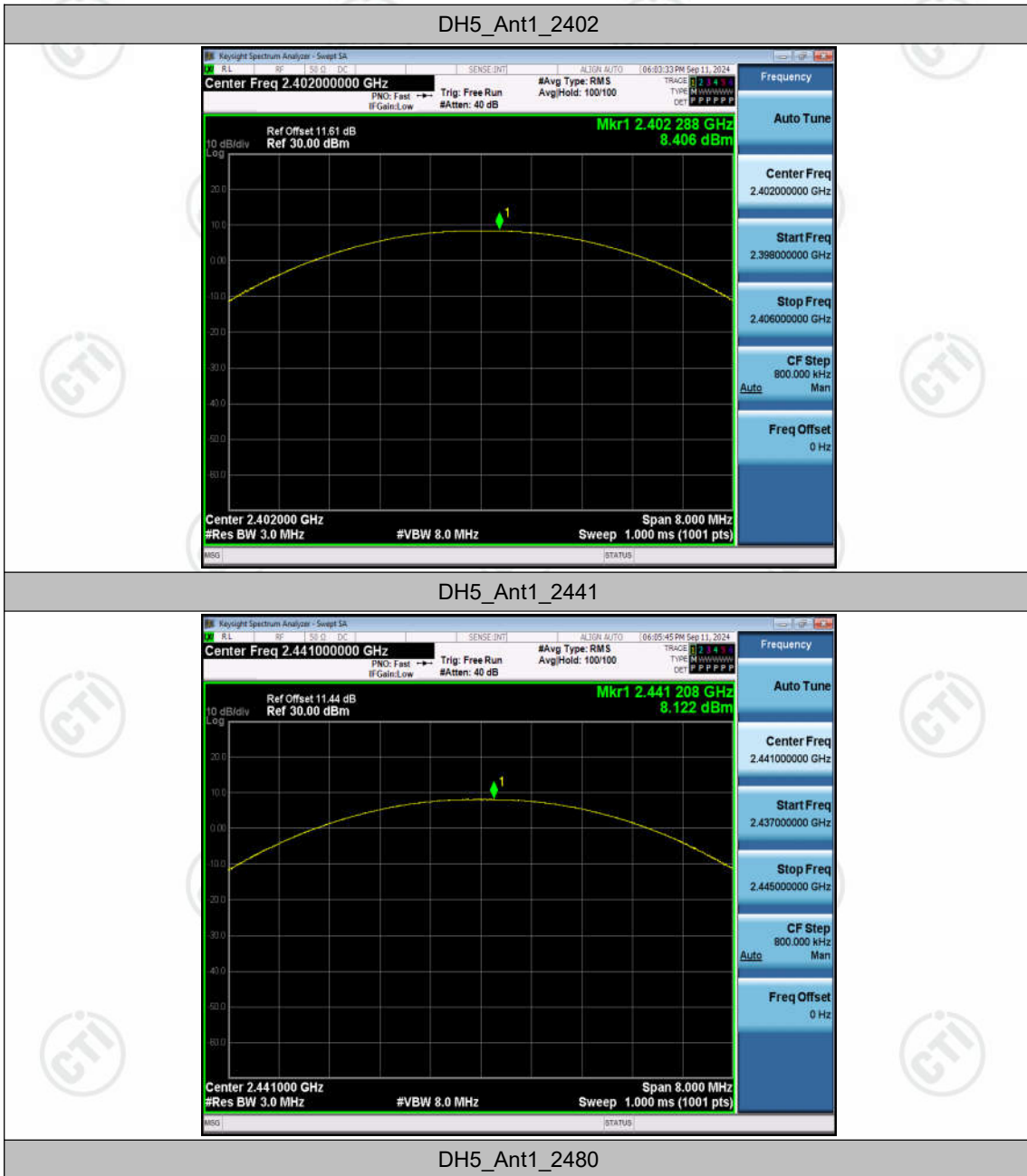


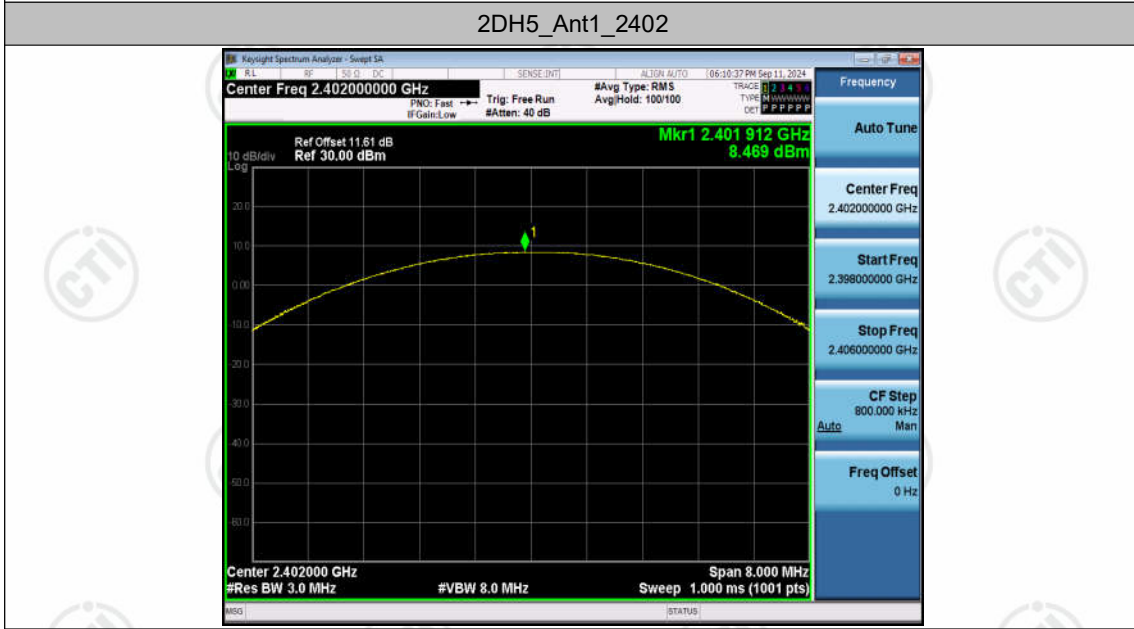
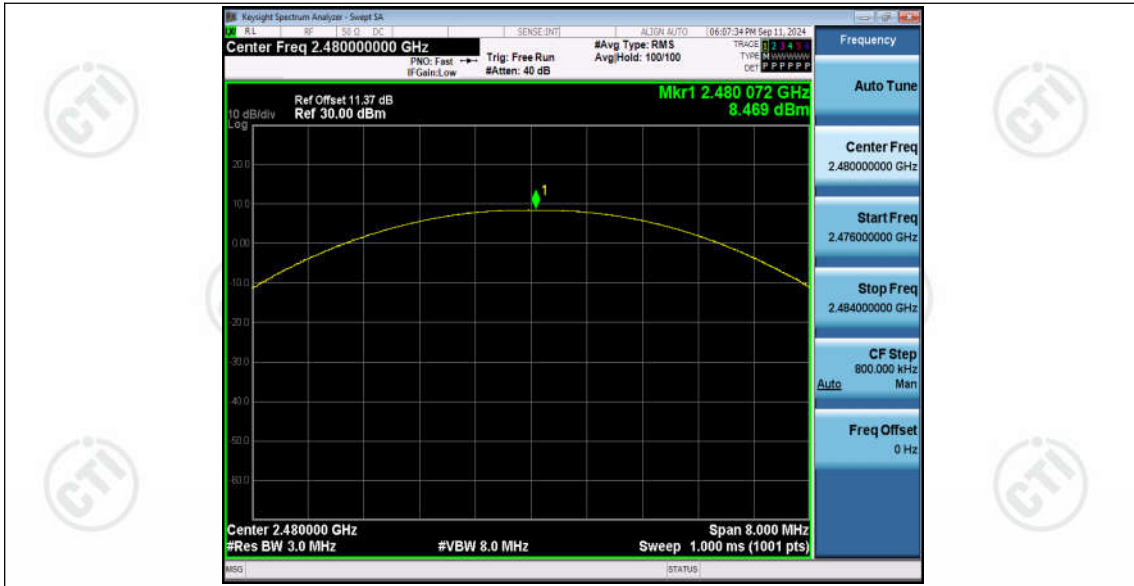
Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	8.41	≤20.97	PASS
		2441	8.12	≤20.97	PASS
		2480	8.47	≤20.97	PASS
2DH5	Ant1	2402	8.47	≤30	PASS
		2441	8.09	≤20.97	PASS
		2480	8.45	≤20.97	PASS
3DH5	Ant1	2402	8.69	≤30	PASS
		2441	8.34	≤20.97	PASS
		2480	8.74	≤20.97	PASS

Test Graphs



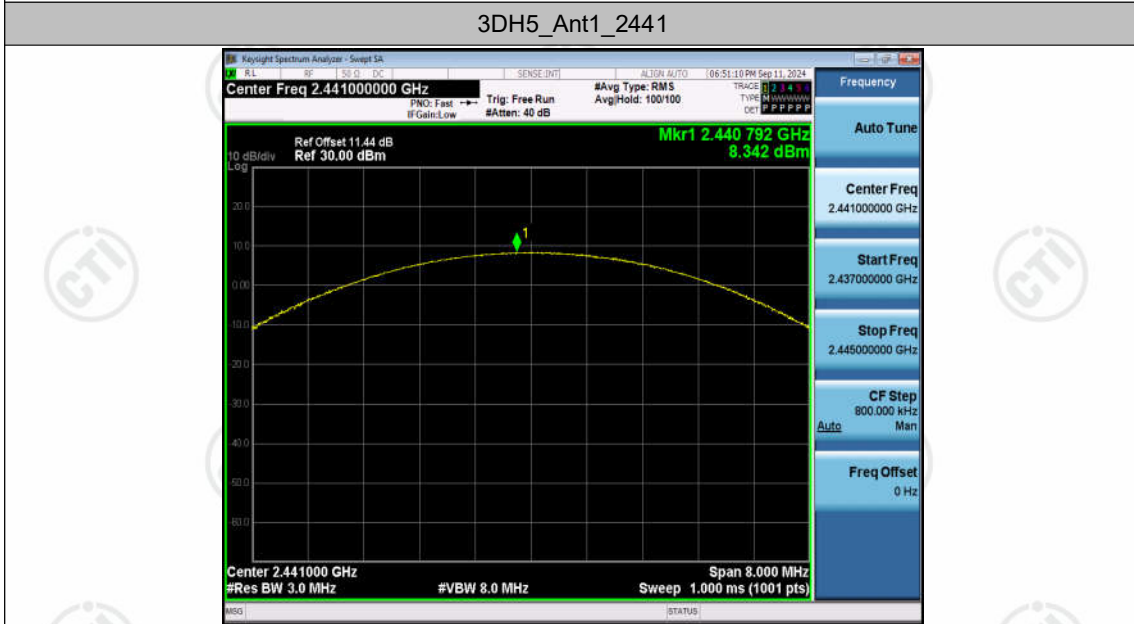
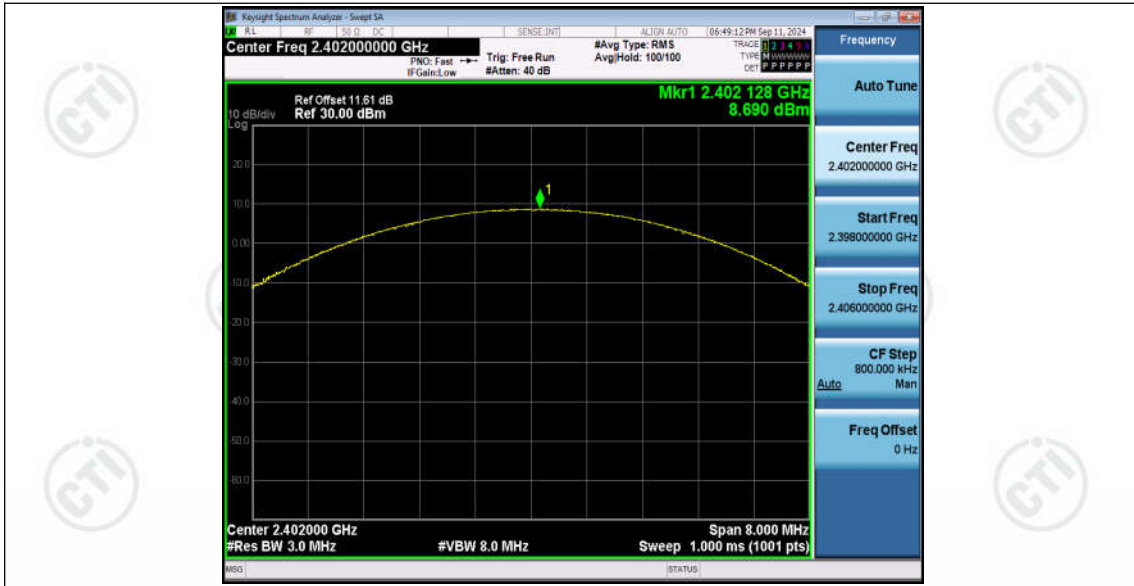


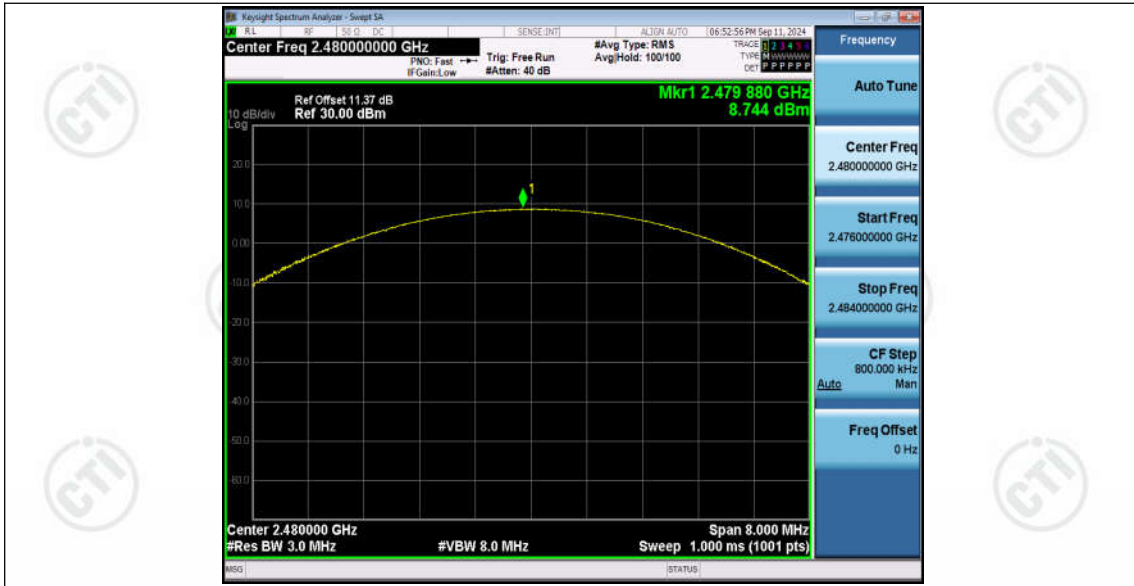


2DH5_Ant1_2480



3DH5_Ant1_2402



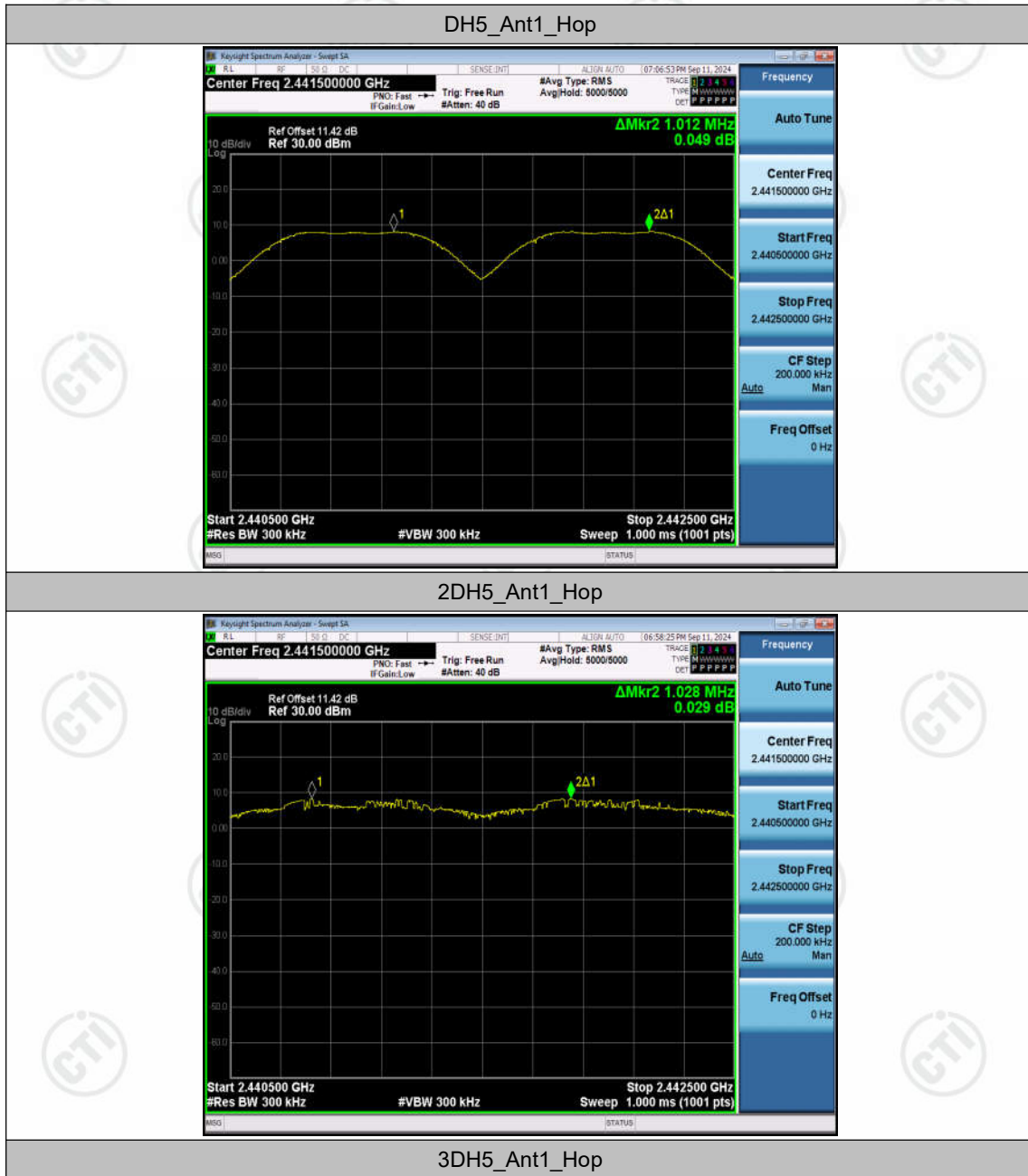


Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.012	≥ 0.966	PASS
2DH5	Ant1	Hop	1.028	≥ 0.850	PASS
3DH5	Ant1	Hop	0.986	≥ 0.872	PASS

Test Graphs

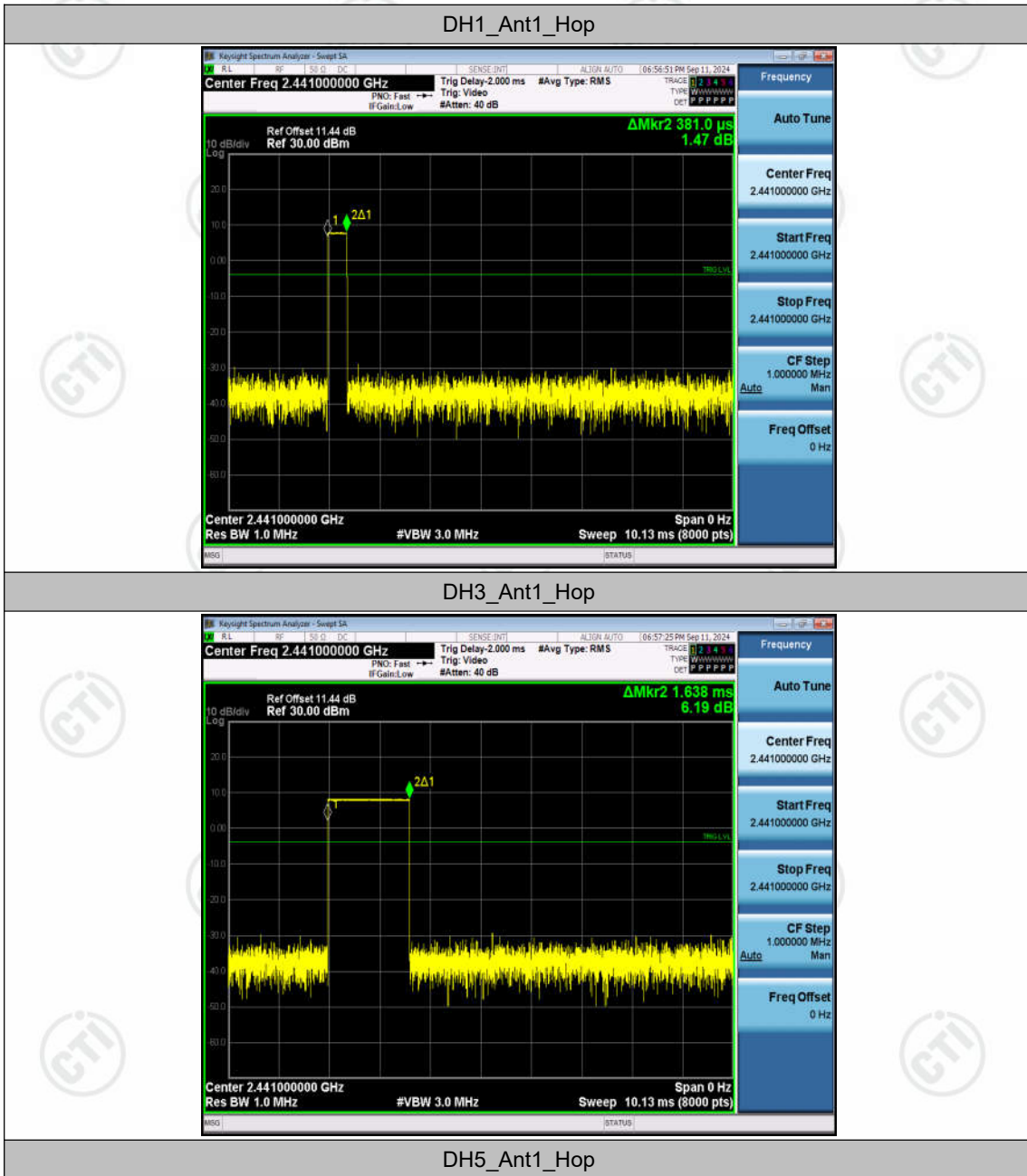


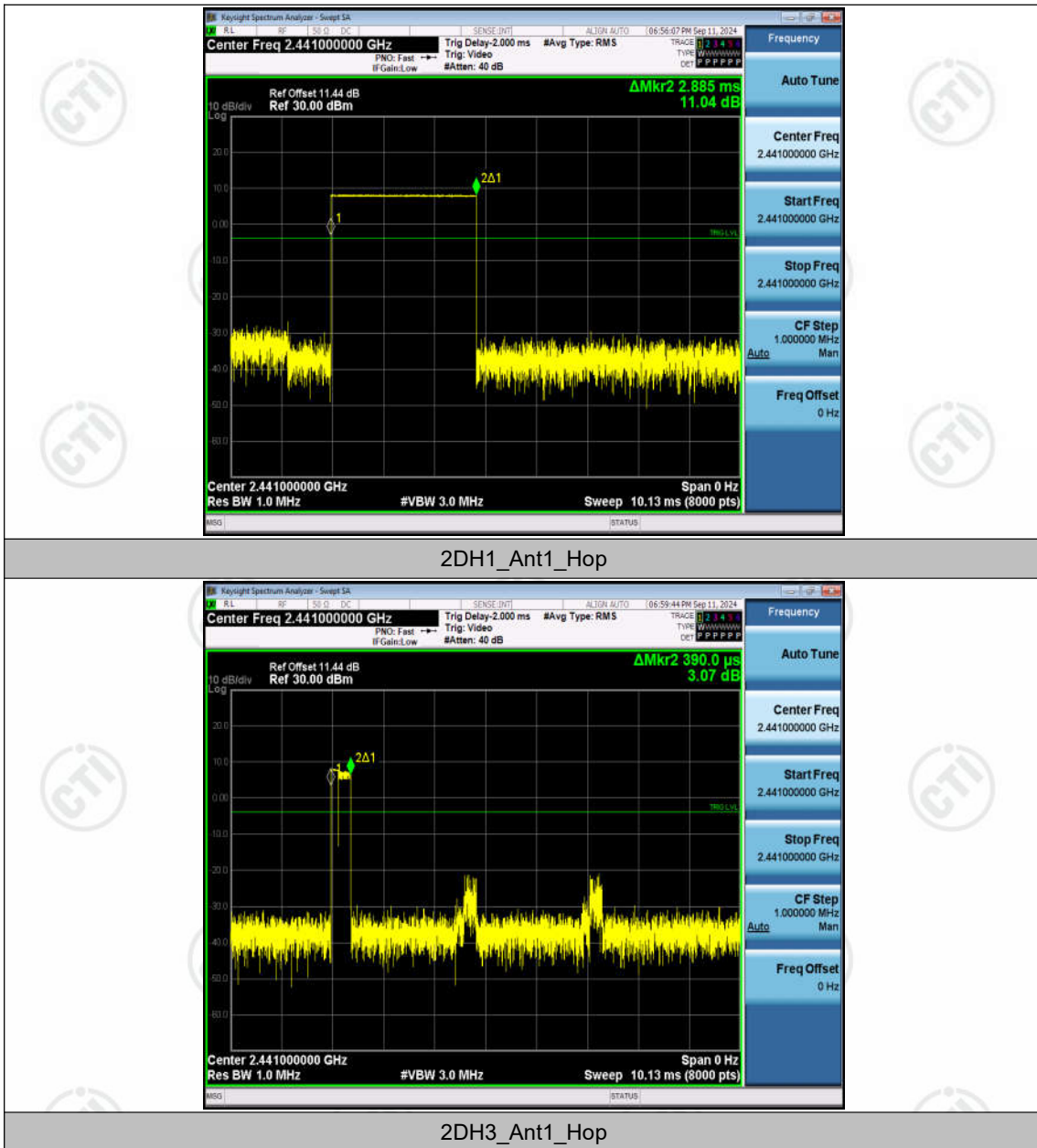


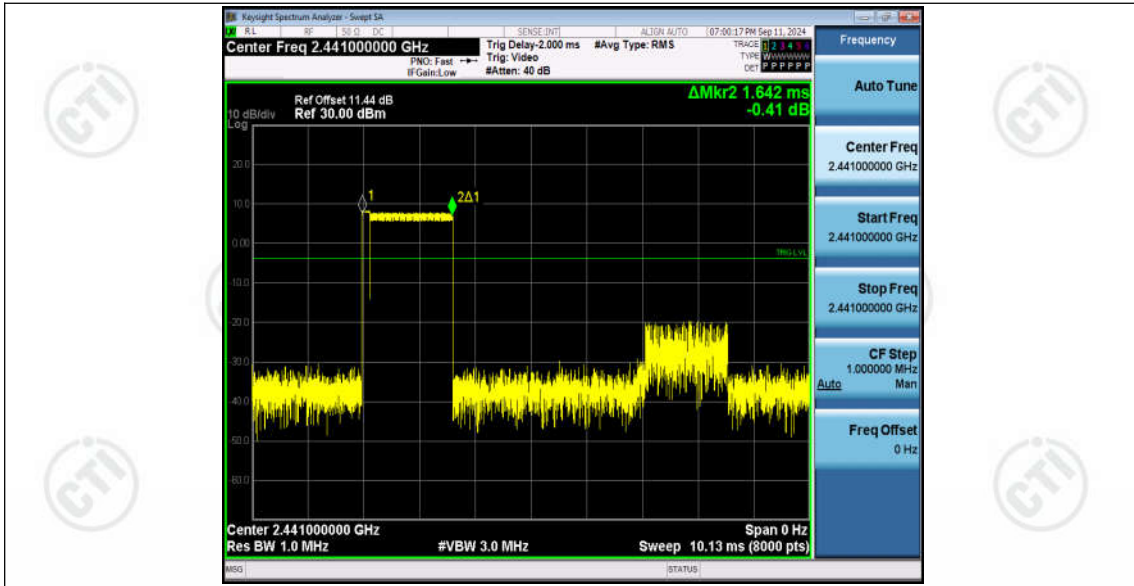
Appendix E: Time of occupancy**Test Result**

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.381	320	0.122	≤0.4	PASS
DH3	Ant1	Hop	1.638	160	0.262	≤0.4	PASS
DH5	Ant1	Hop	2.885	106.67	0.308	≤0.4	PASS
2DH1	Ant1	Hop	0.390	320	0.125	≤0.4	PASS
2DH3	Ant1	Hop	1.642	160	0.263	≤0.4	PASS
2DH5	Ant1	Hop	2.889	106.67	0.308	≤0.4	PASS
3DH1	Ant1	Hop	0.390	320	0.125	≤0.4	PASS
3DH3	Ant1	Hop	1.642	160	0.263	≤0.4	PASS
3DH5	Ant1	Hop	2.892	106.67	0.308	≤0.4	PASS

Test Graphs



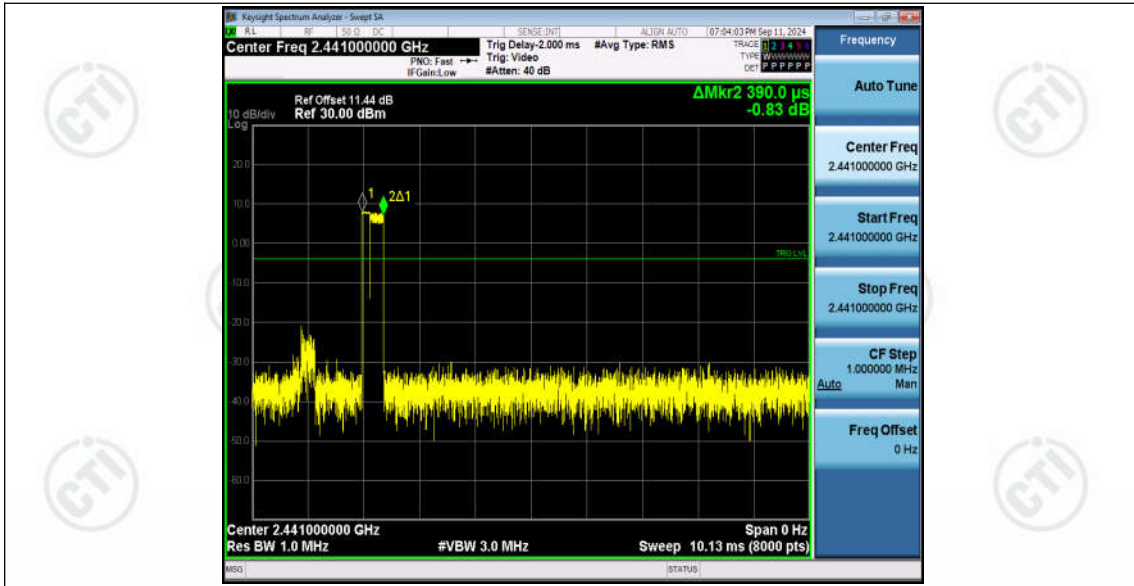




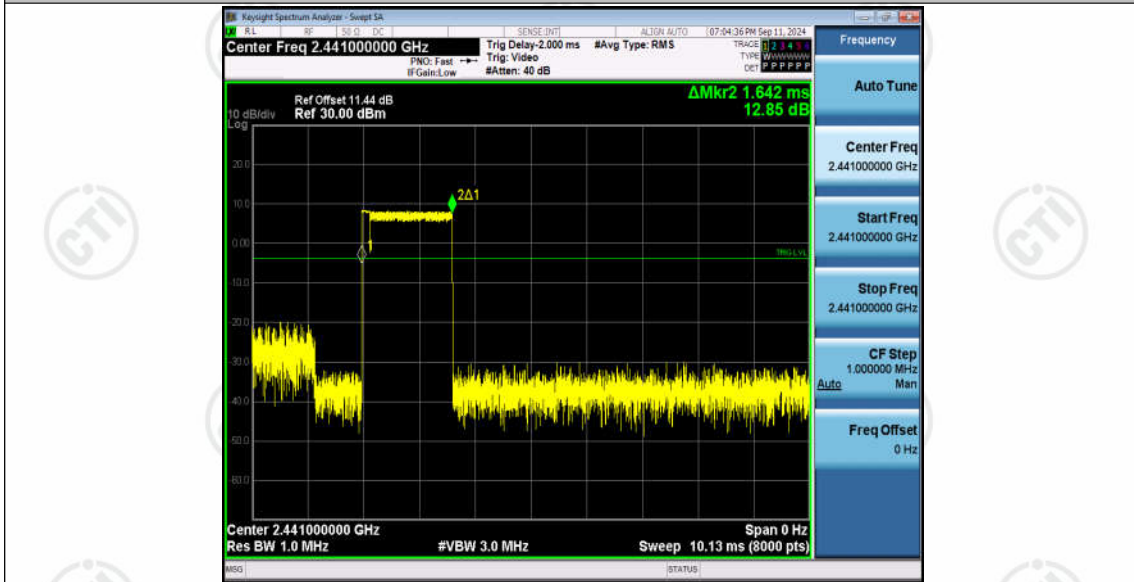
2DH5_Ant1_Hop



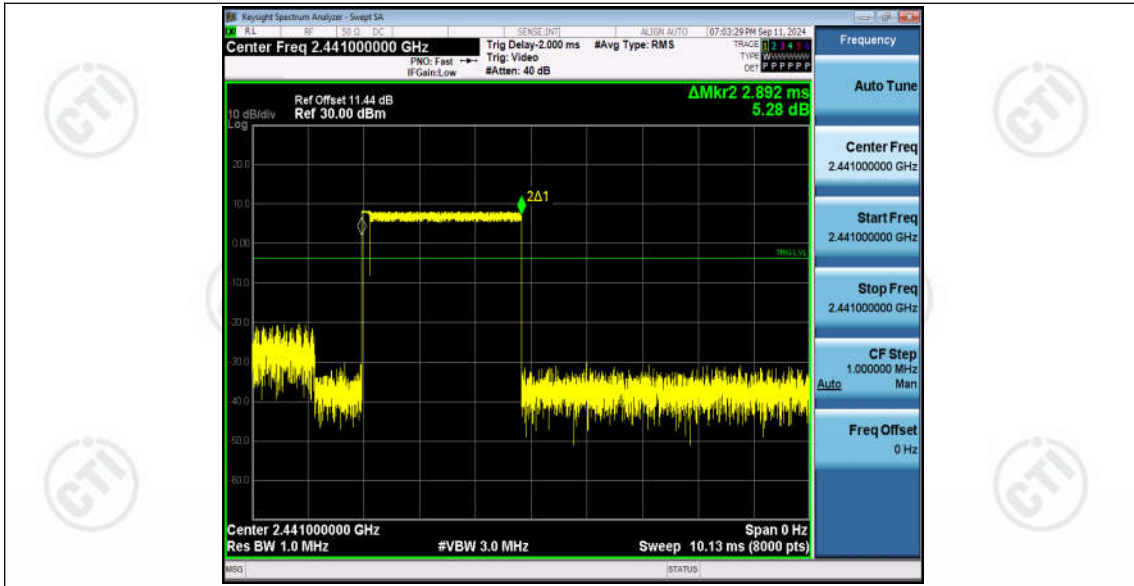
3DH1_Ant1_Hop



3DH3_Ant1_Hop



3DH5_Ant1_Hop

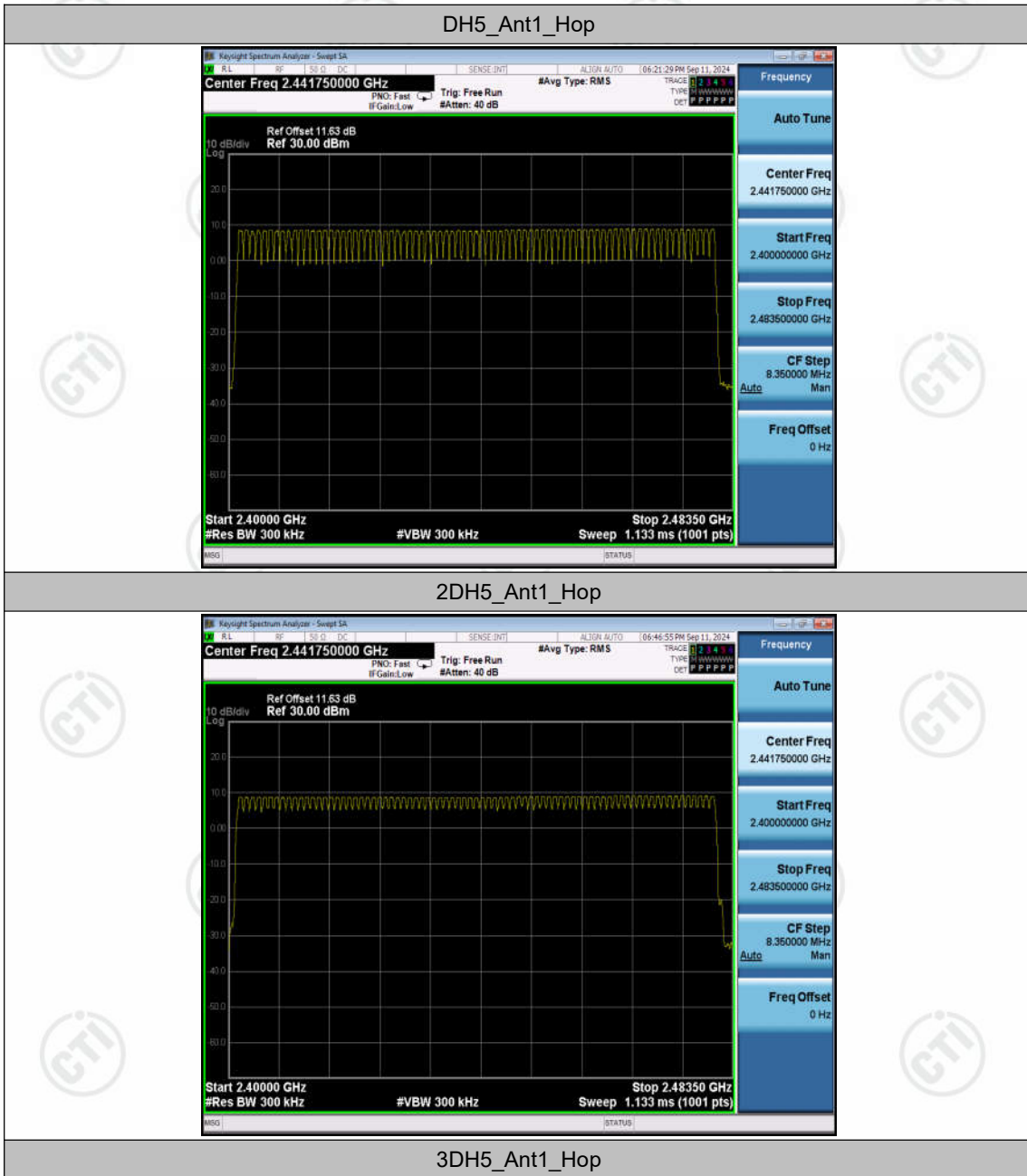


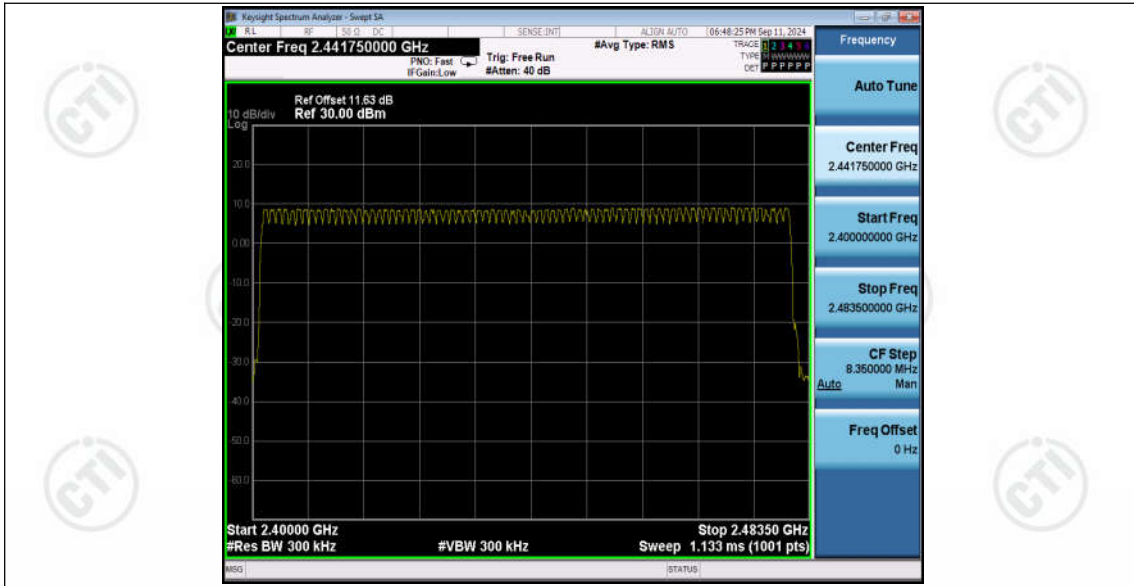
Appendix F: Number of hopping channels

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



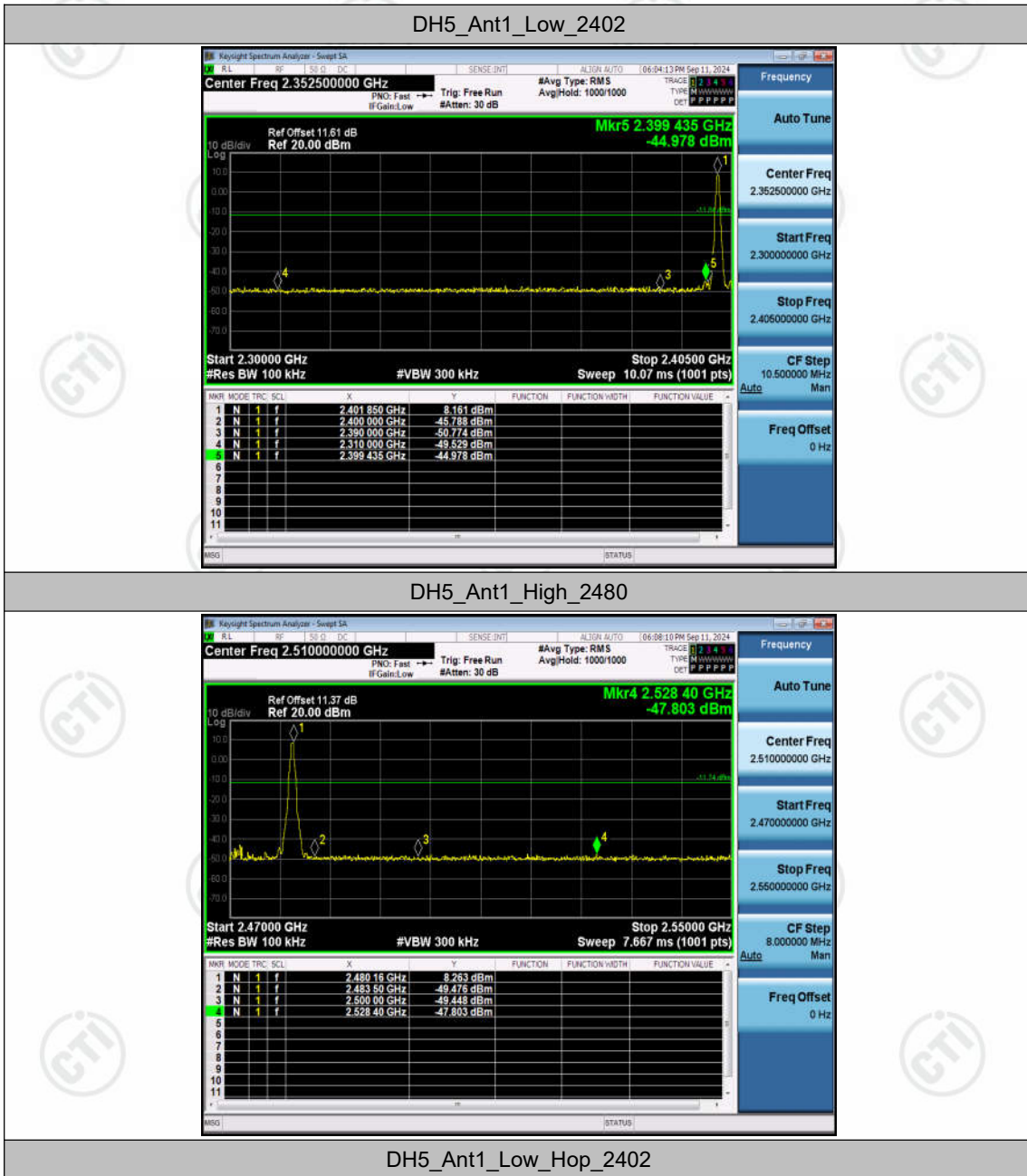


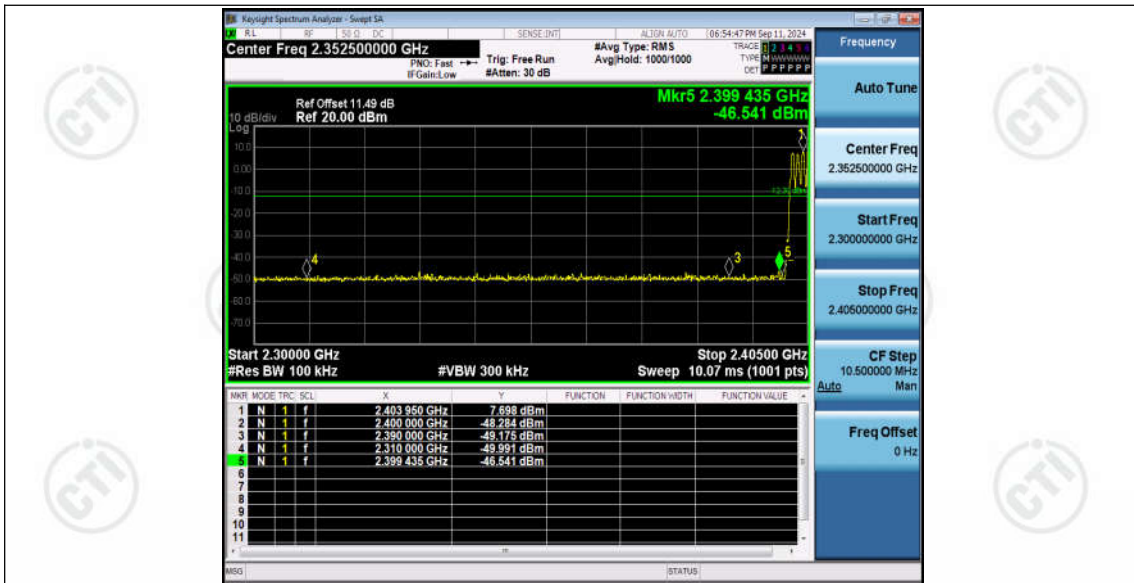
Appendix G: Band edge measurements

Test Result

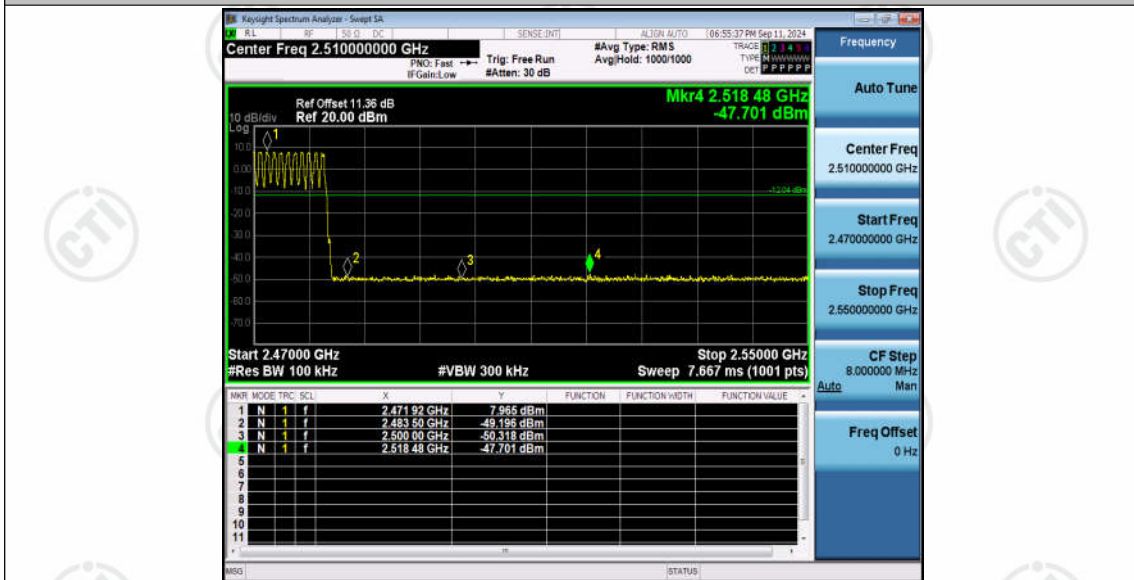
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	8.16	-44.98	≤-11.84	PASS
		High	2480	8.26	-47.8	≤-11.74	PASS
		Low	Hop_2402	7.70	-46.54	≤-12.3	PASS
		High	Hop_2480	7.97	-47.7	≤-12.04	PASS
2DH5	Ant1	Low	2402	8.24	-41.69	≤-11.76	PASS
		High	2480	8.30	-47.44	≤-11.7	PASS
		Low	Hop_2402	4.60	-45.45	≤-15.4	PASS
		High	Hop_2480	7.73	-47.32	≤-12.27	PASS
3DH5	Ant1	Low	2402	8.23	-42.12	≤-11.77	PASS
		High	2480	8.31	-46.56	≤-11.69	PASS
		Low	Hop_2402	4.36	-45.86	≤-15.64	PASS
		High	Hop_2480	8.55	-46.99	≤-11.46	PASS

Test Graphs

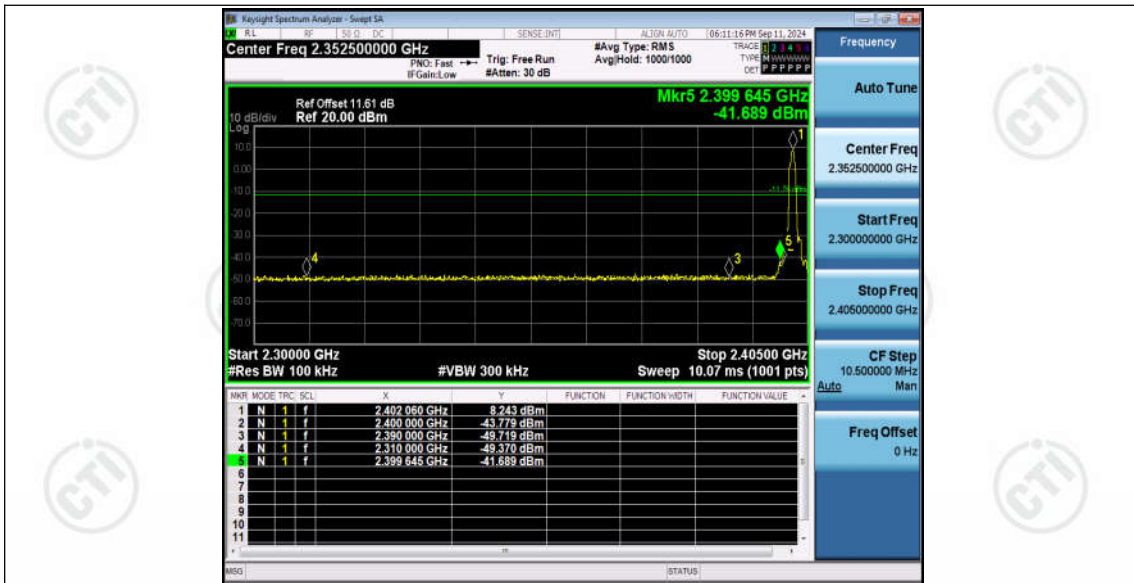




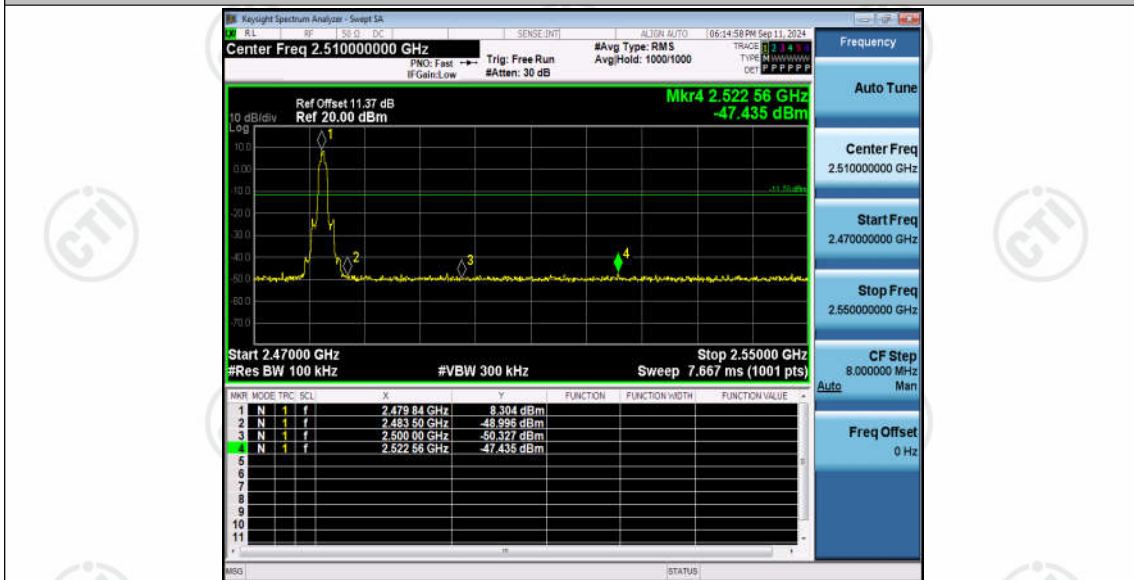
DH5_Ant1_High_Hop_2480



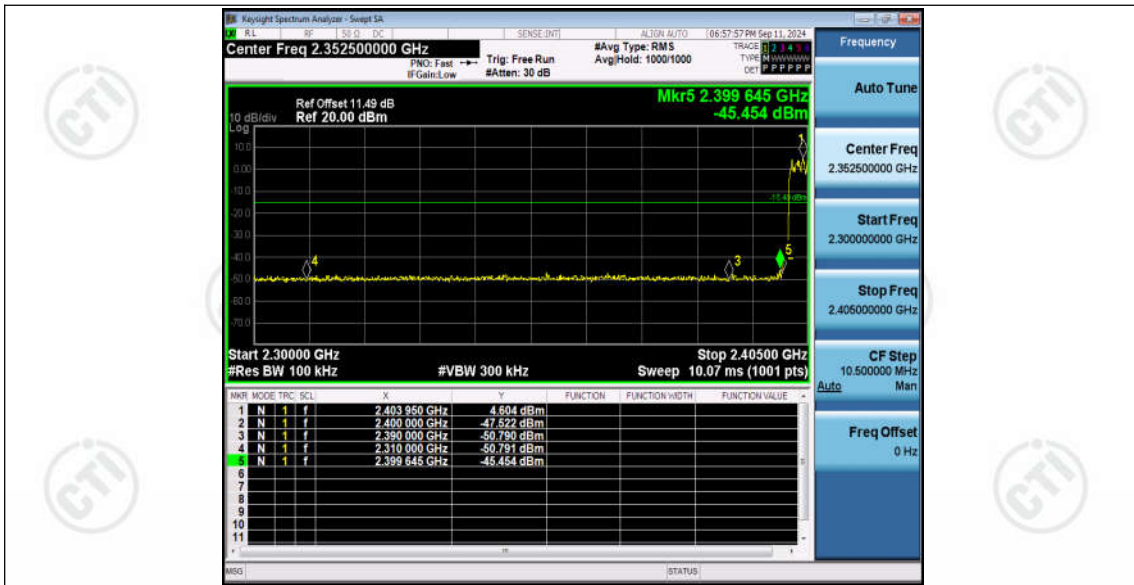
2DH5_Ant1_Low_2402



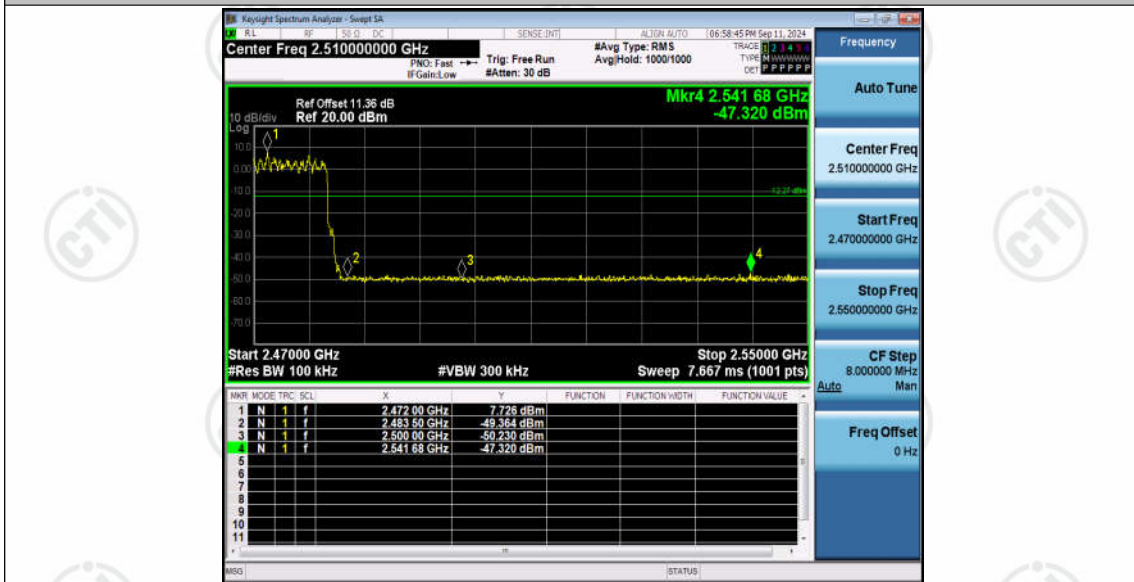
2DH5_Ant1_High_2480



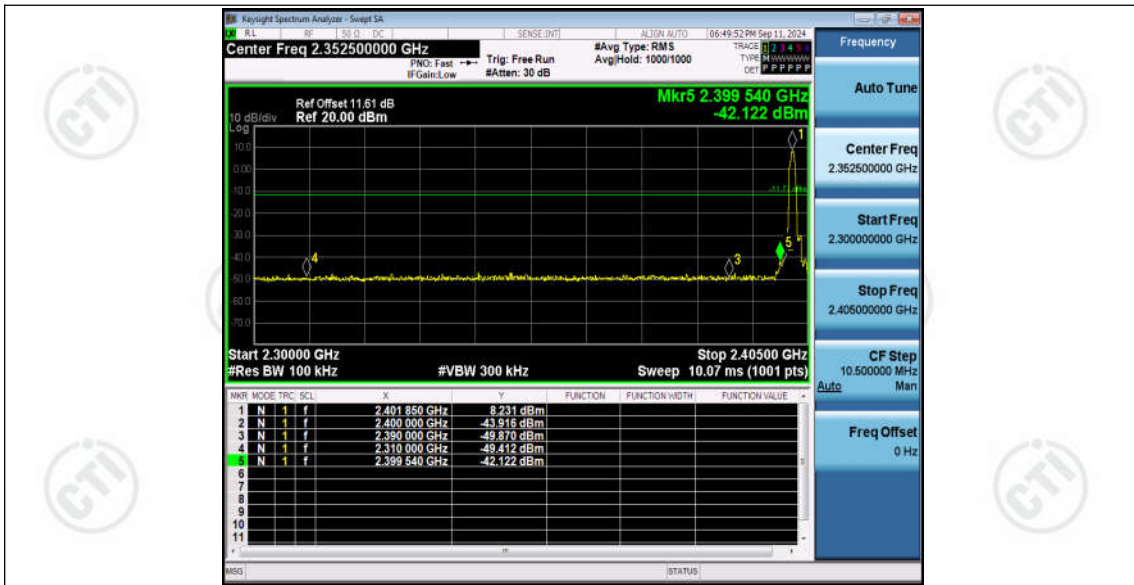
2DH5_Ant1_Low_Hop_2402



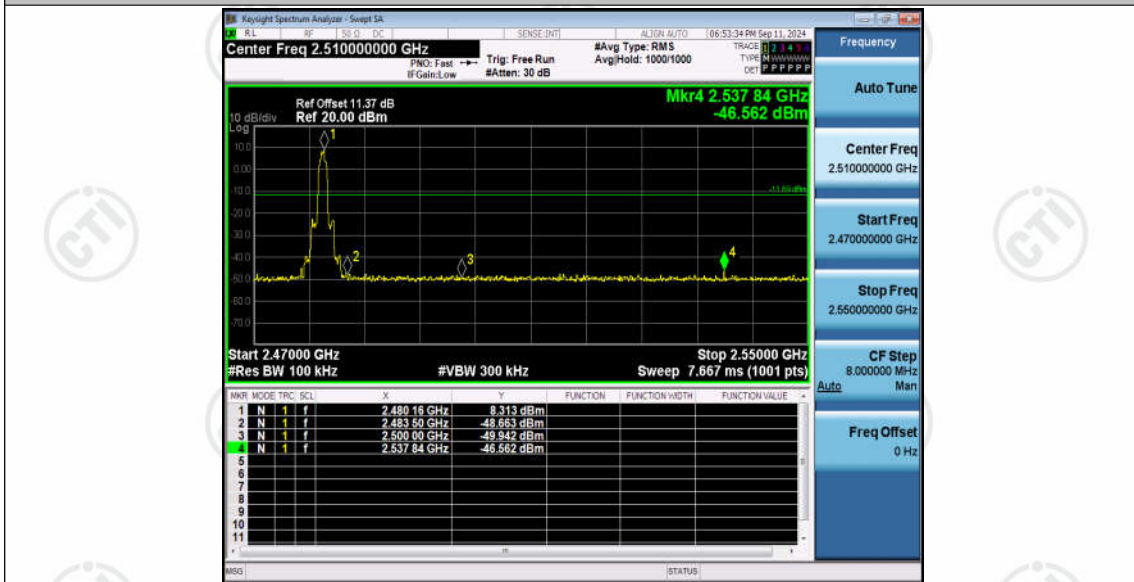
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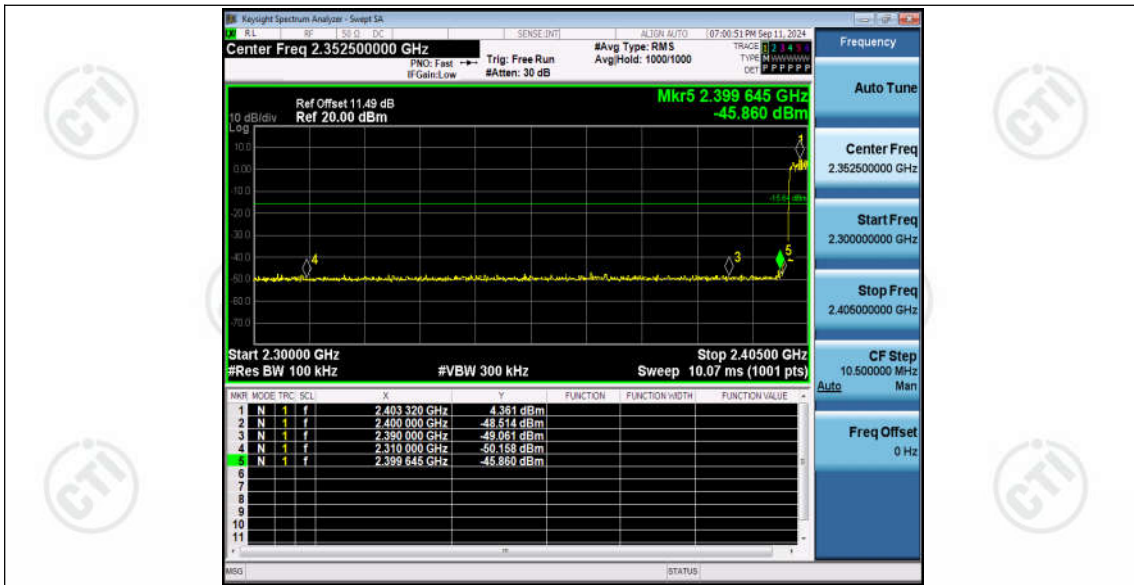
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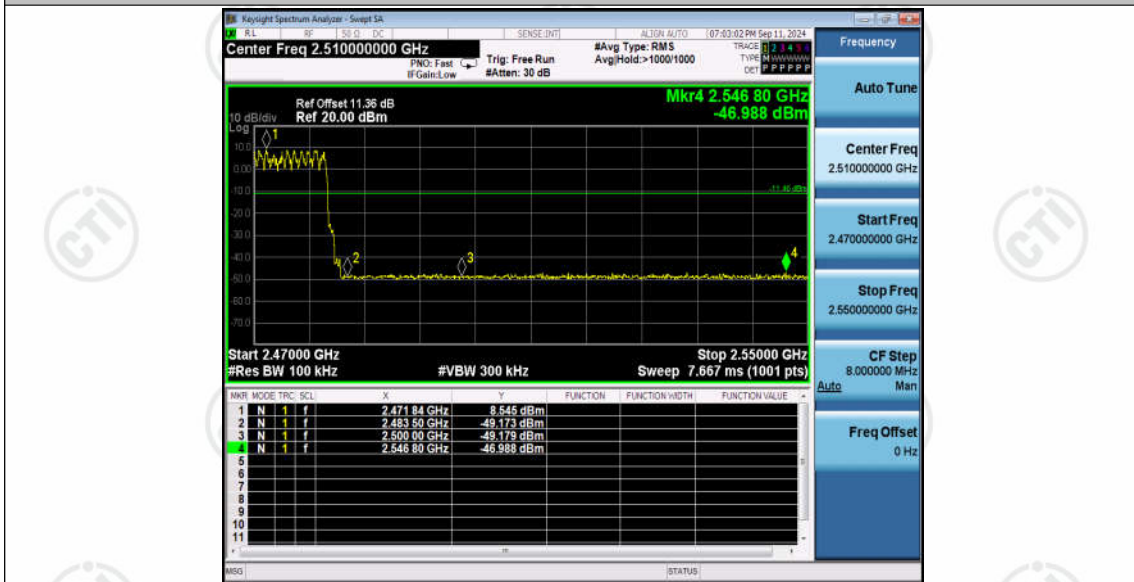
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



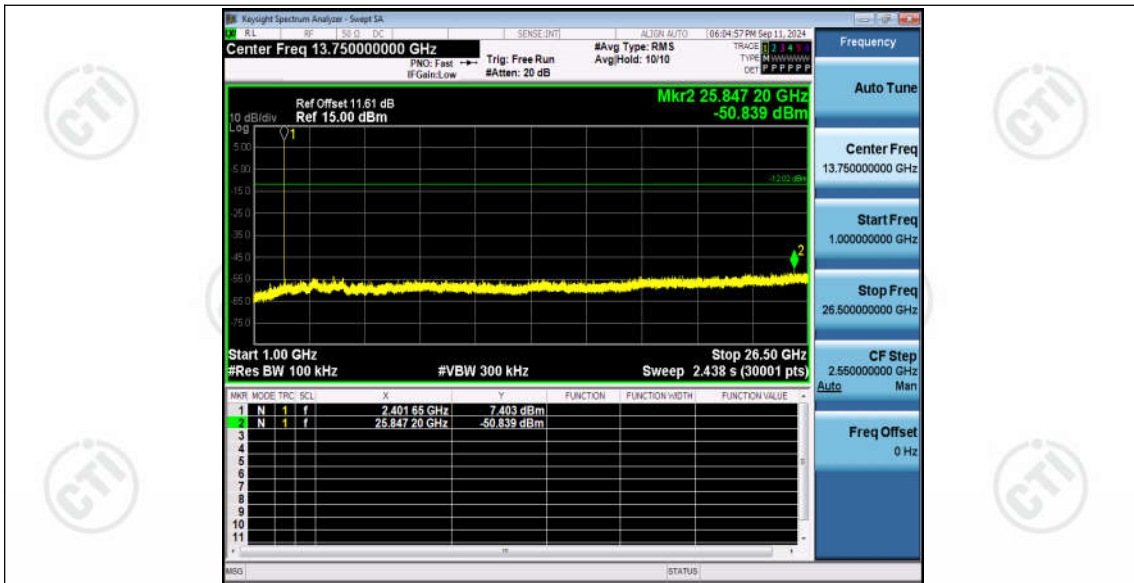
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	7.98	7.98	---	PASS
			30~1000	7.98	-58.83	≤-12.02	PASS
			1000~26500	7.98	-50.84	≤-12.02	PASS
		2441	Reference	7.31	7.31	---	PASS
			30~1000	7.31	-59.39	≤-12.69	PASS
			1000~26500	7.31	-51.54	≤-12.69	PASS
		2480	Reference	7.88	7.88	---	PASS
			30~1000	7.88	-59.76	≤-12.12	PASS
			1000~26500	7.88	-51.74	≤-12.12	PASS
2DH5	Ant1	2402	Reference	7.77	7.77	---	PASS
			30~1000	7.77	-59.28	≤-12.23	PASS
			1000~26500	7.77	-50.71	≤-12.23	PASS
		2441	Reference	7.76	7.76	---	PASS
			30~1000	7.76	-59.11	≤-12.24	PASS
			1000~26500	7.76	-50.92	≤-12.24	PASS
		2480	Reference	8.20	8.20	---	PASS
			30~1000	8.20	-59.4	≤-11.8	PASS
			1000~26500	8.20	-50.74	≤-11.8	PASS
3DH5	Ant1	2402	Reference	8.16	8.16	---	PASS
			30~1000	8.16	-59.4	≤-11.84	PASS
			1000~26500	8.16	-51.57	≤-11.84	PASS
		2441	Reference	7.86	7.86	---	PASS
			30~1000	7.86	-59.97	≤-12.14	PASS
			1000~26500	7.86	-51.58	≤-12.14	PASS
		2480	Reference	7.52	7.52	---	PASS
			30~1000	7.52	-59.06	≤-12.48	PASS
			1000~26500	7.52	-51.92	≤-12.48	PASS

Test Graphs

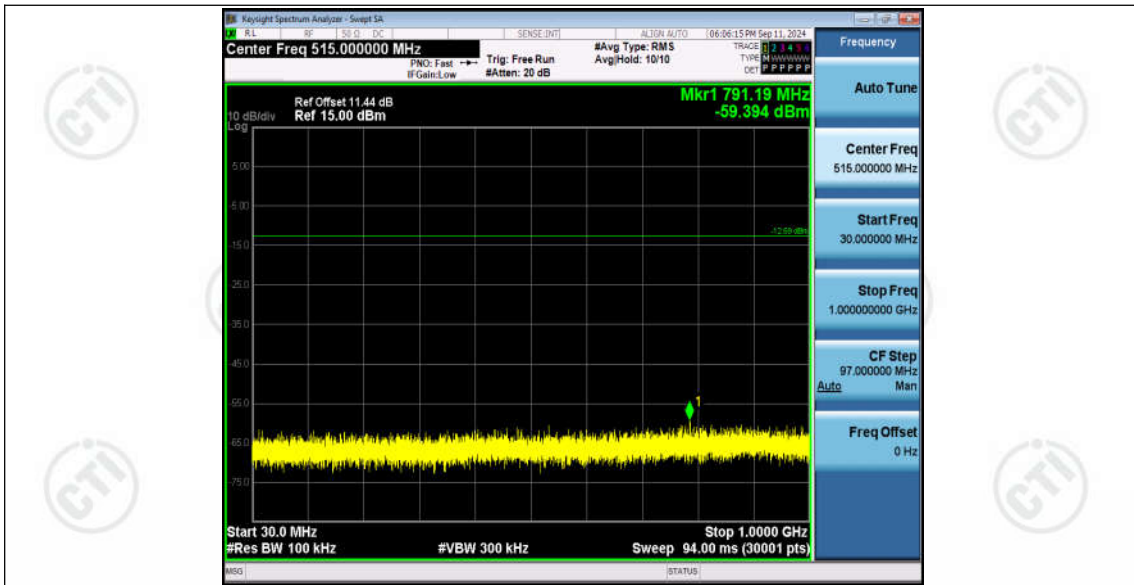




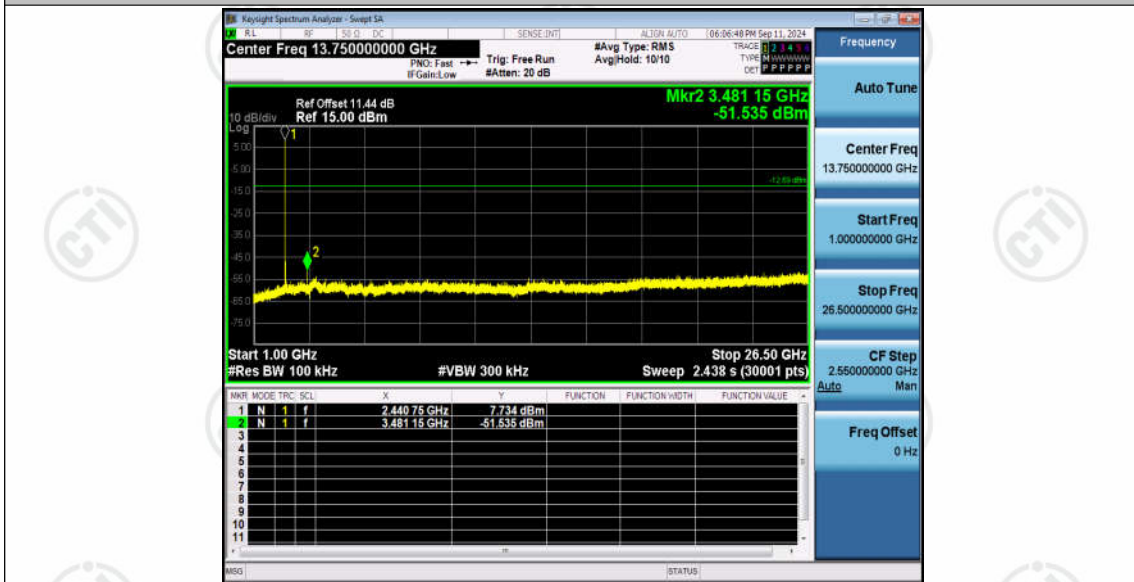
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



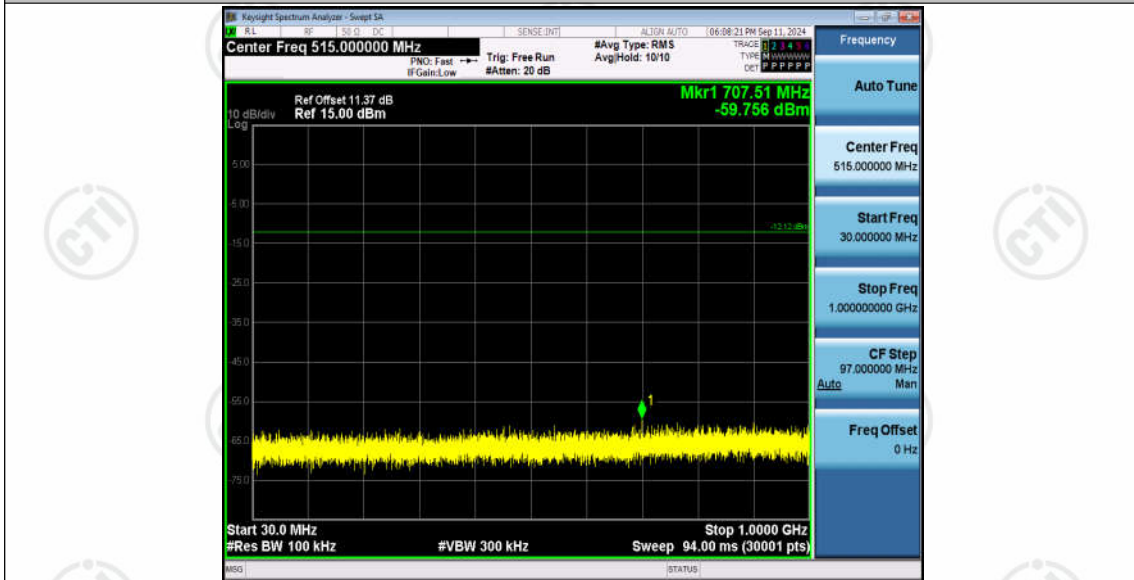
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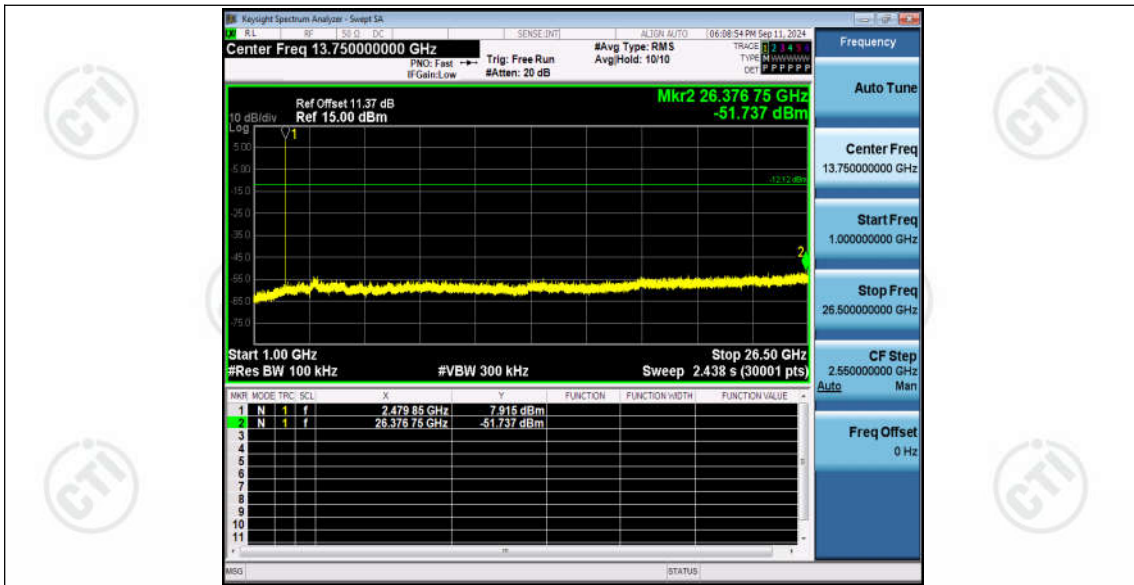
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



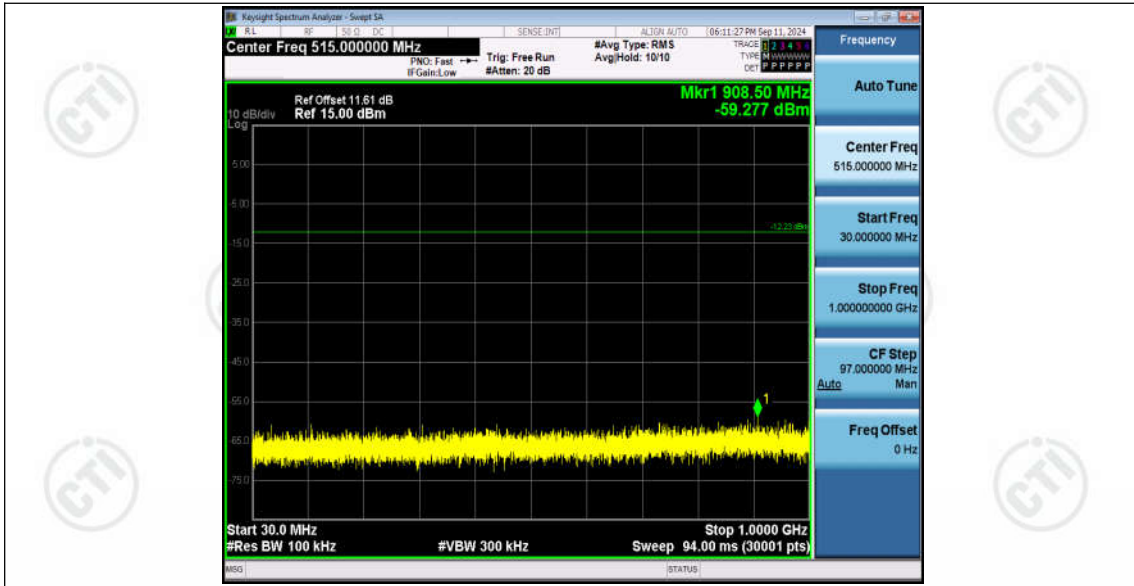
DH5_Ant1_2480_1000~26500



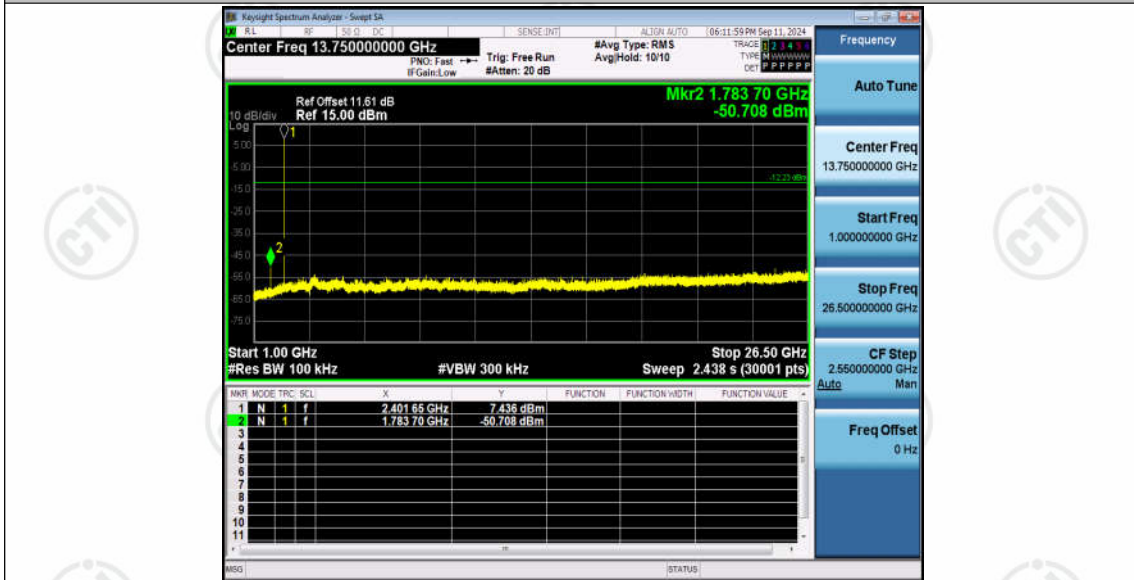
2DH5_Ant1_2402_0~Reference



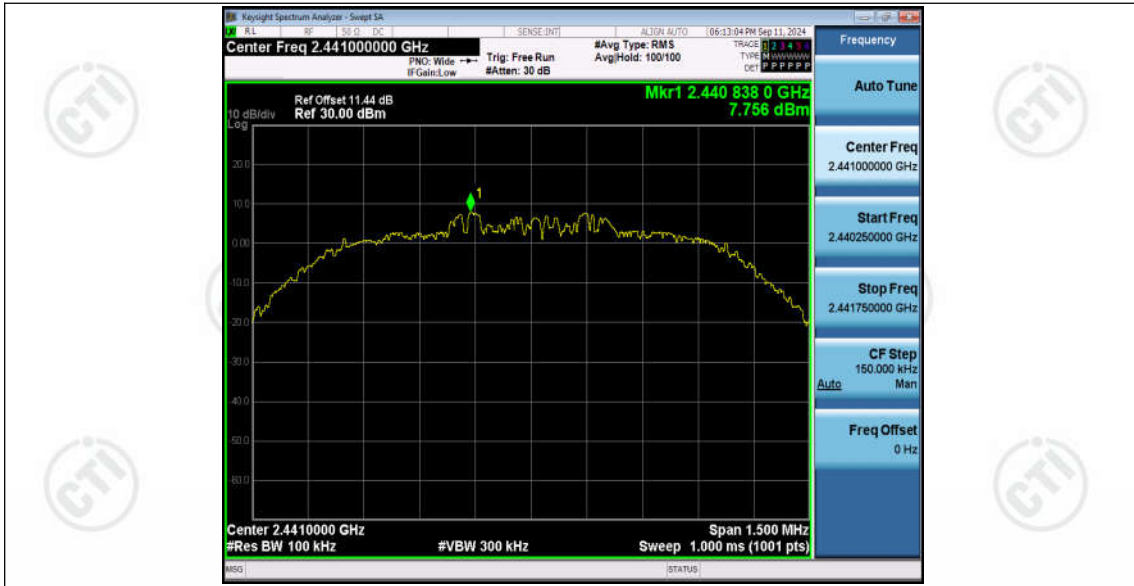
2DH5_Ant1_2402_30~1000



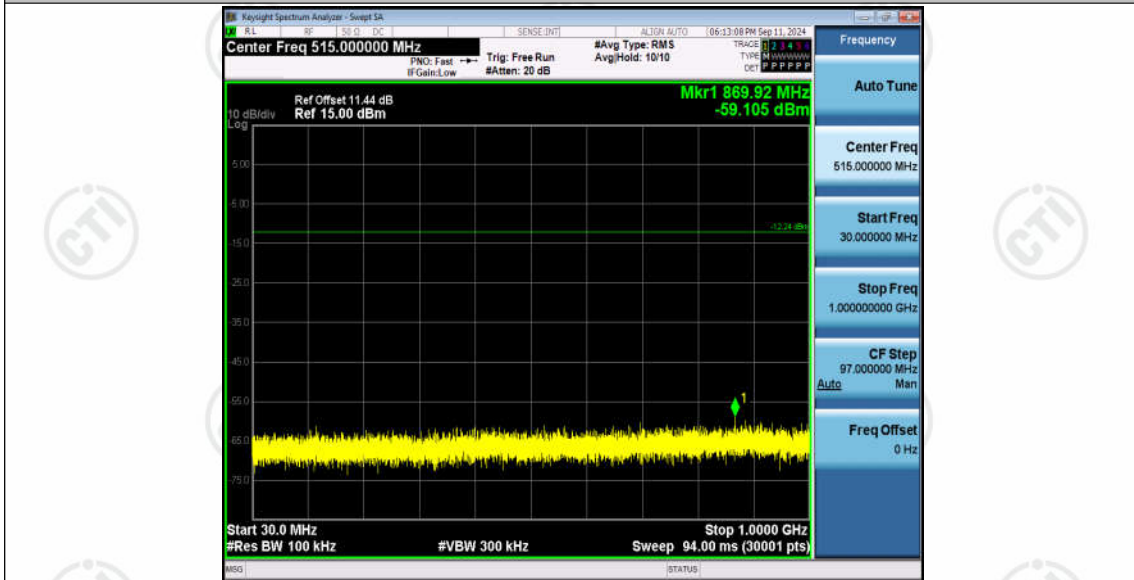
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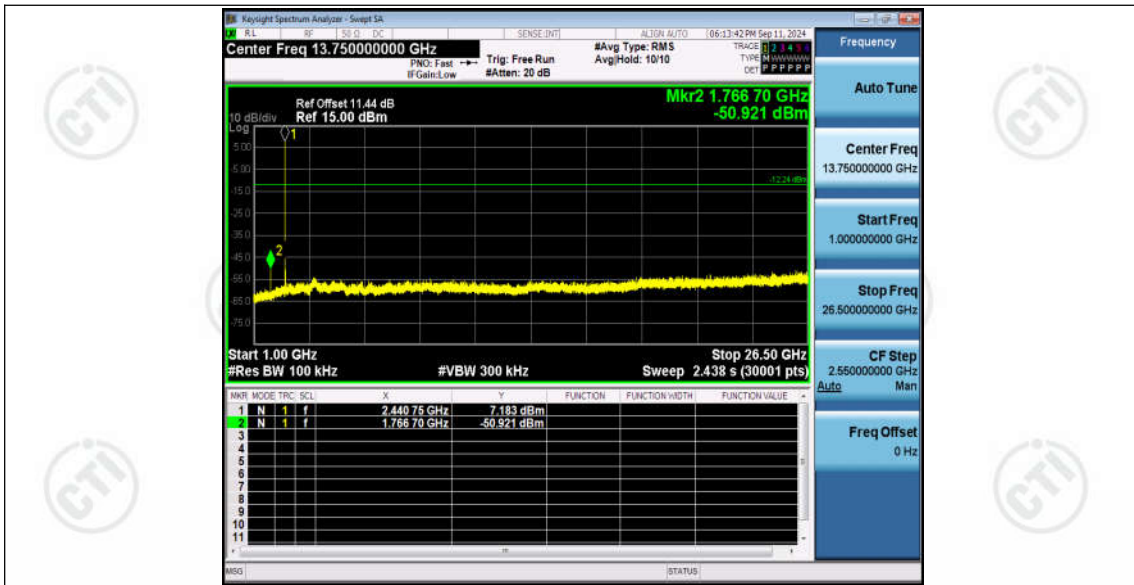
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



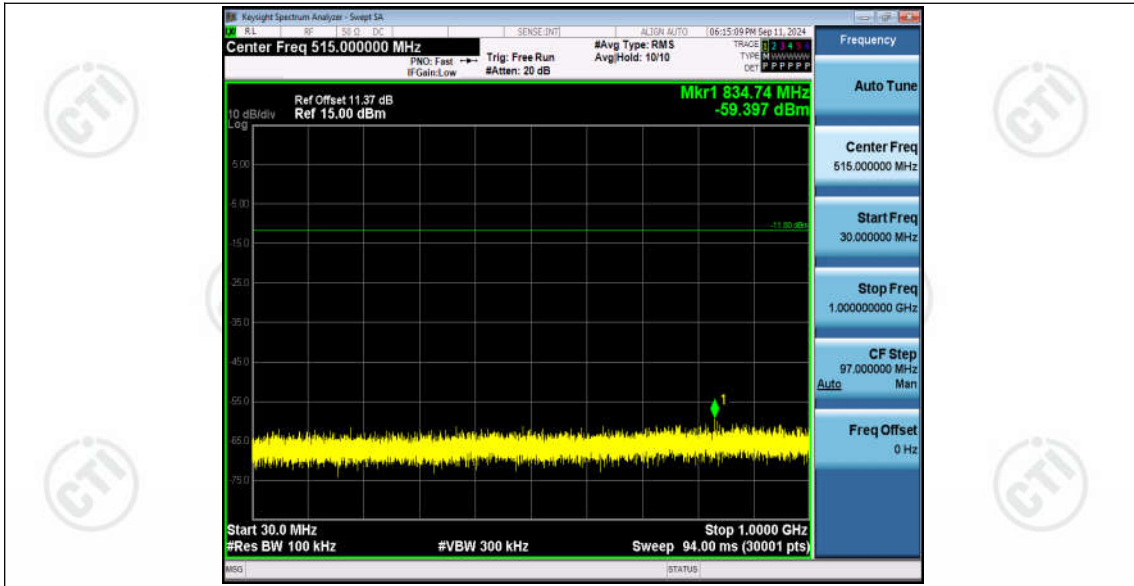
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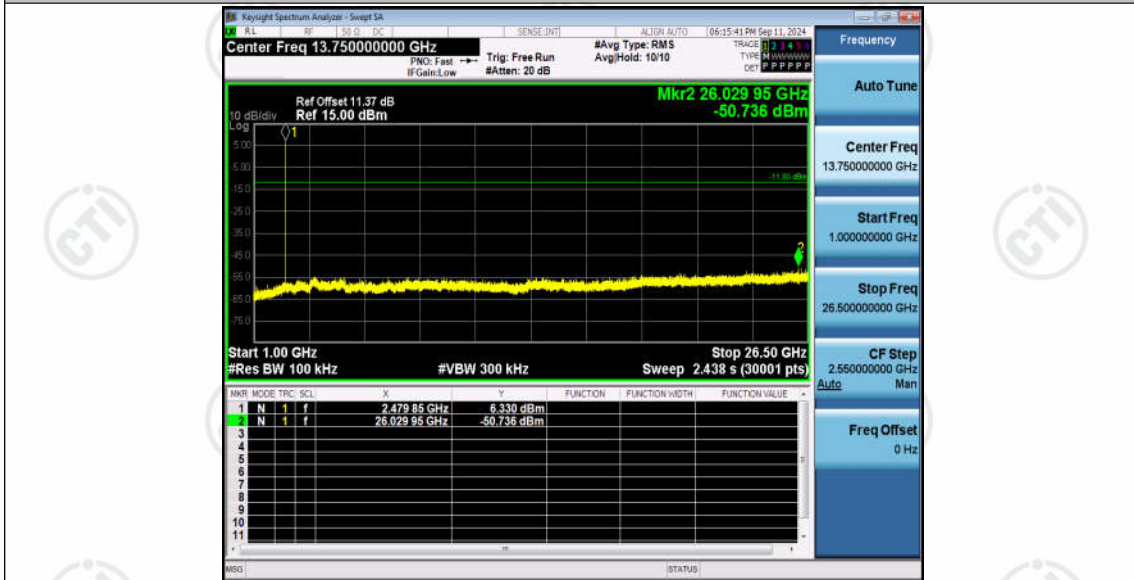
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



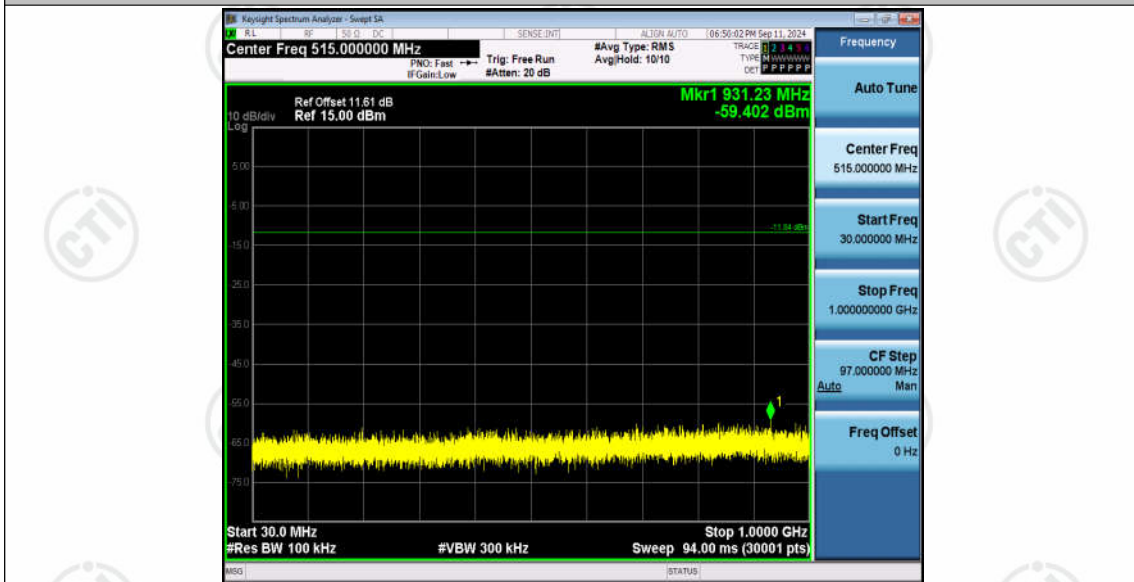
2DH5_Ant1_2480_1000~26500



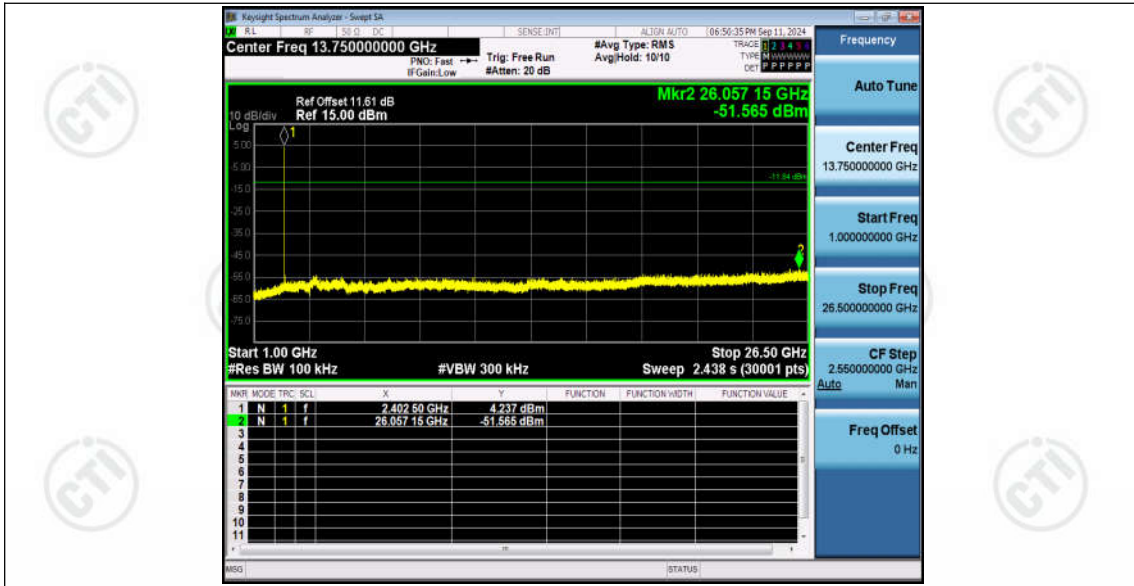
3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



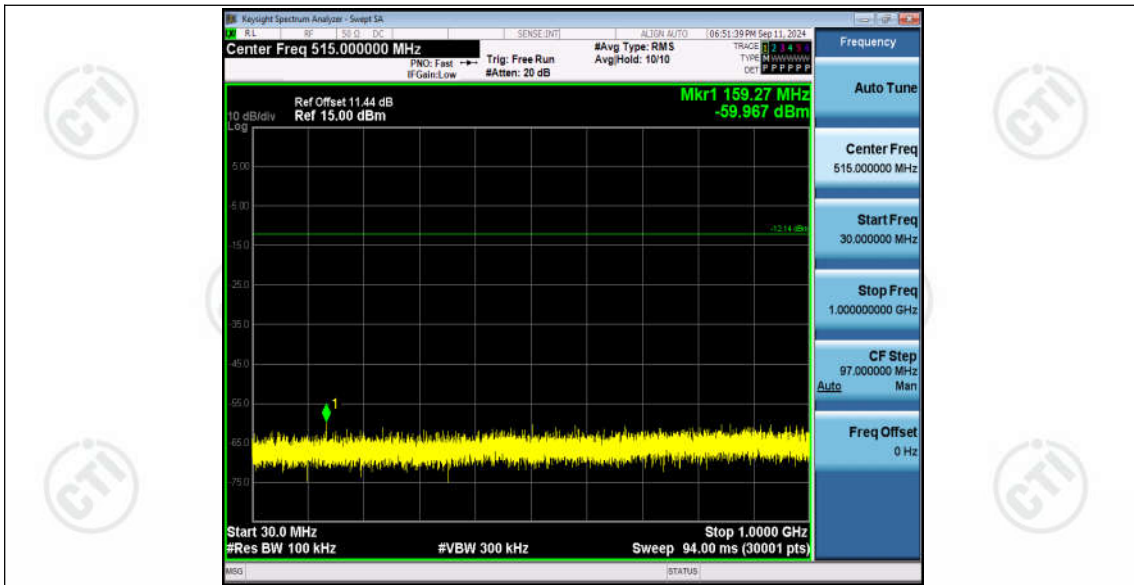
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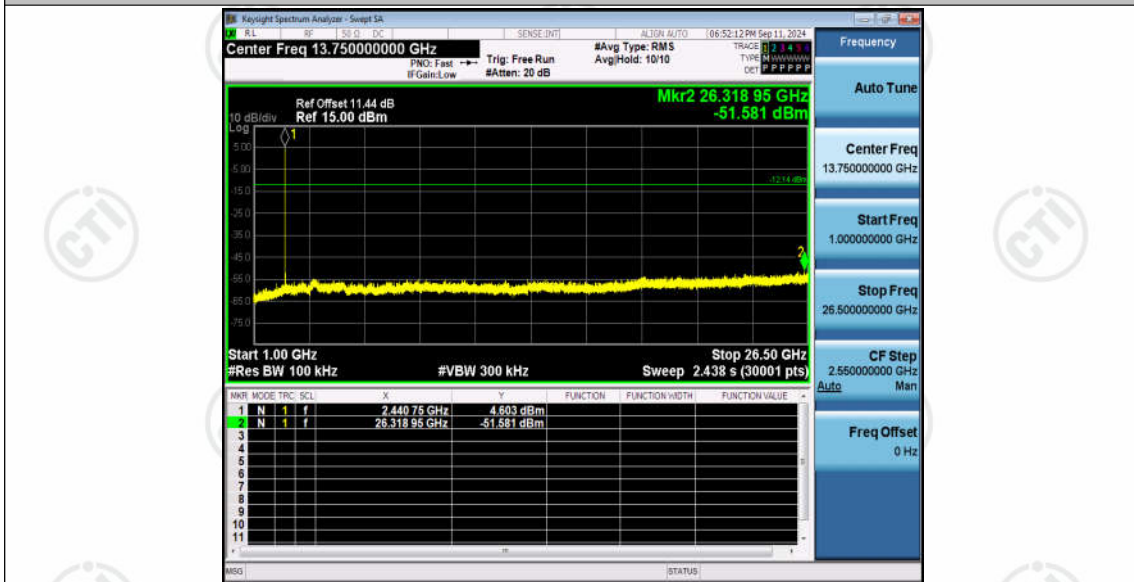
3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000



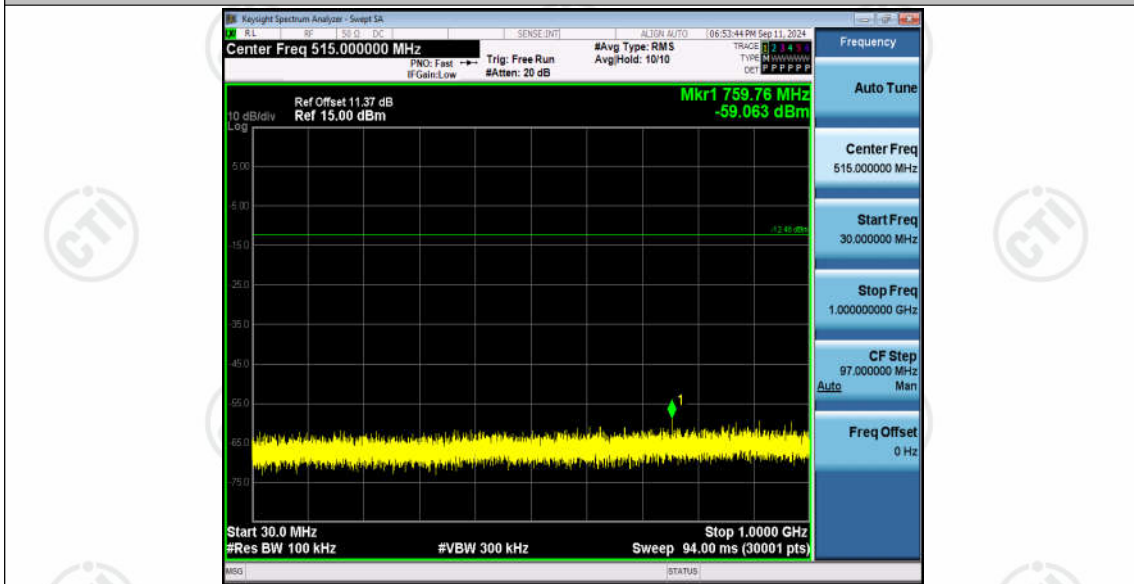
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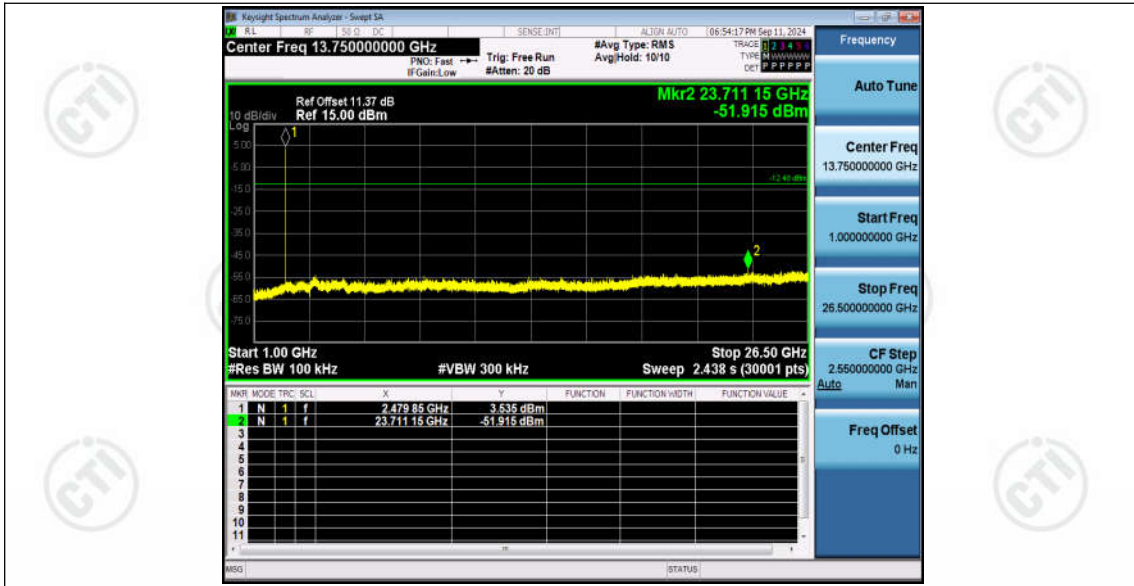
3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500

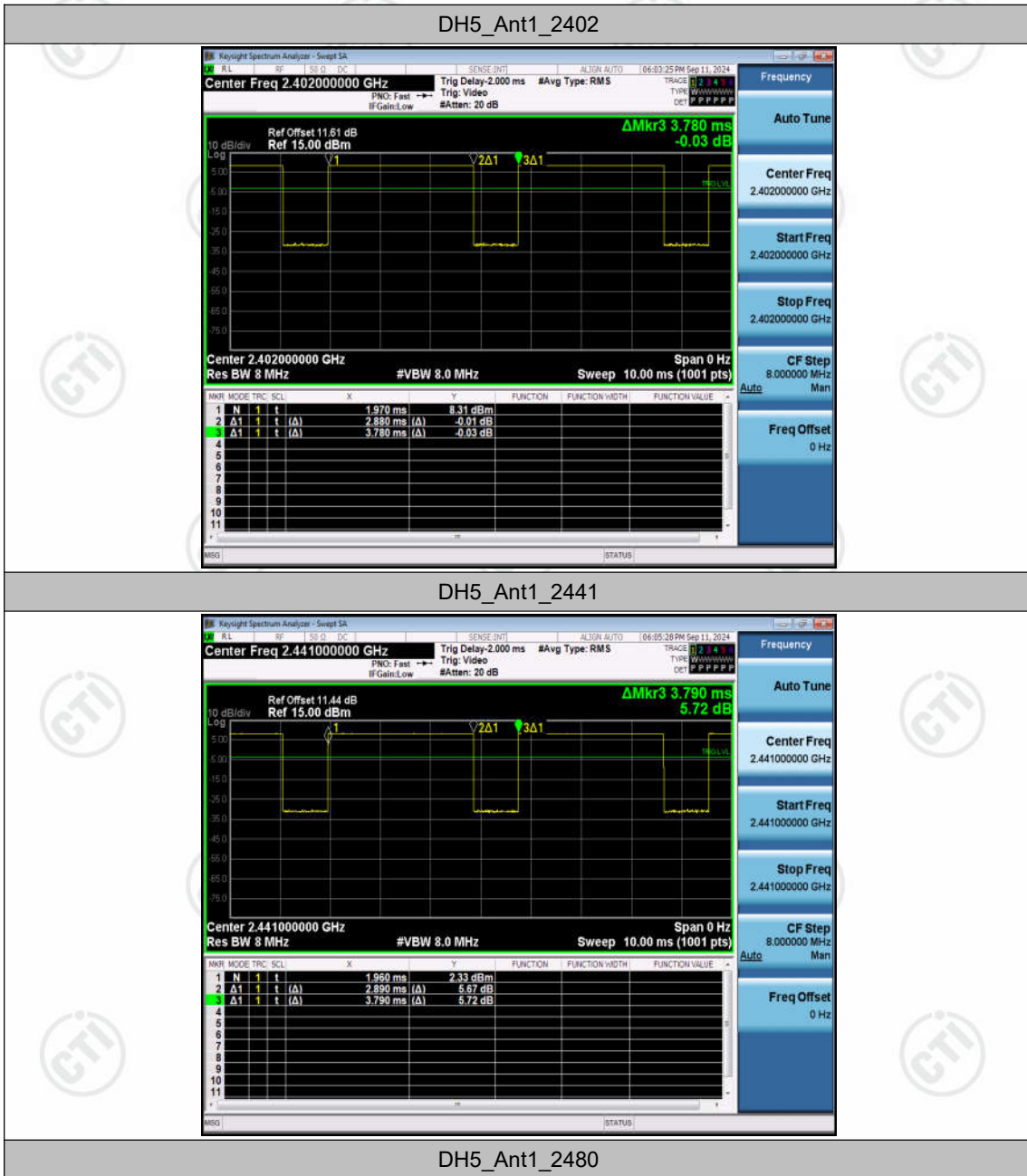


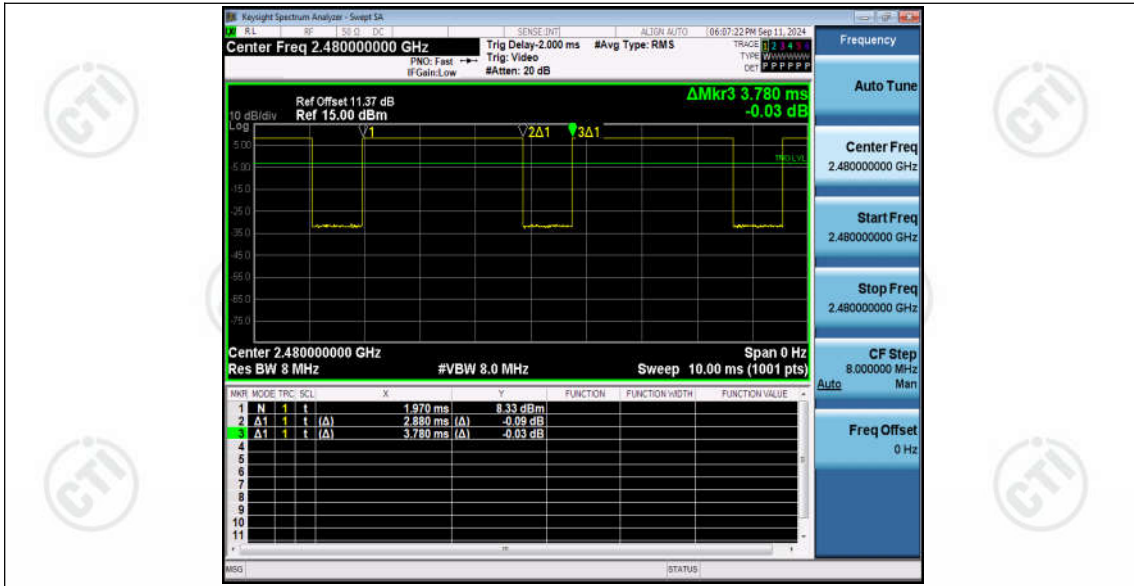
Appendix I: Duty Cycle**Test Result**

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.88	3.78	76.19	1.18
		2441	2.89	3.79	76.25	1.18
		2480	2.88	3.78	76.19	1.18
2DH5	Ant1	2402	2.88	3.79	75.99	1.19
		2441	2.89	3.79	76.25	1.18
		2480	2.88	3.79	75.99	1.19
3DH5	Ant1	2402	2.89	3.79	76.25	1.18
		2441	2.89	3.79	76.25	1.18
		2480	2.89	3.80	76.05	1.19

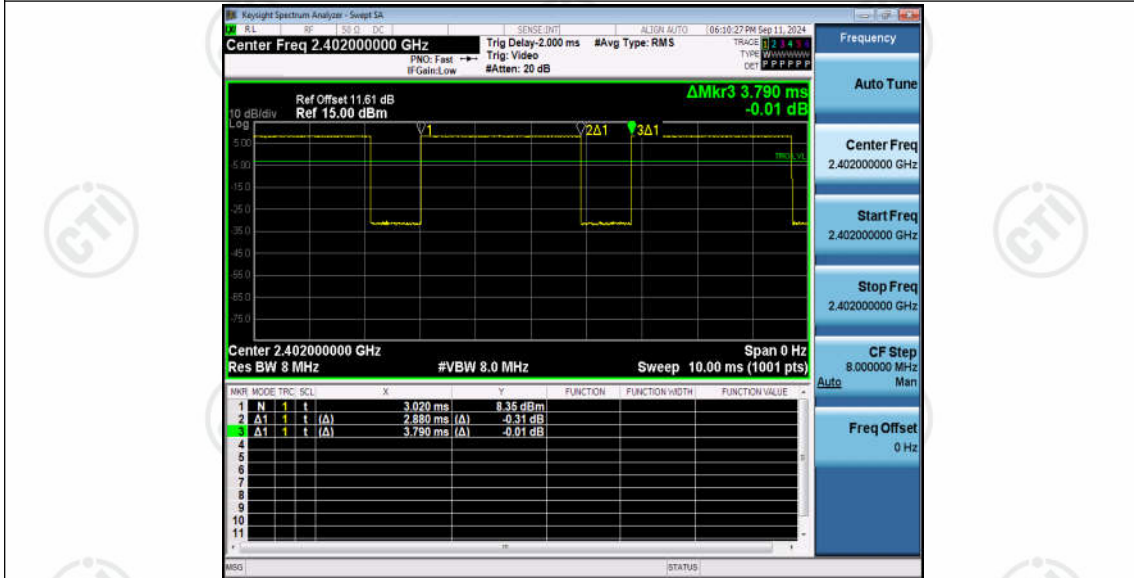
Note:Duty Cycle Factor[dB]=-10*Ig(Duty Cycle);

Test Graphs

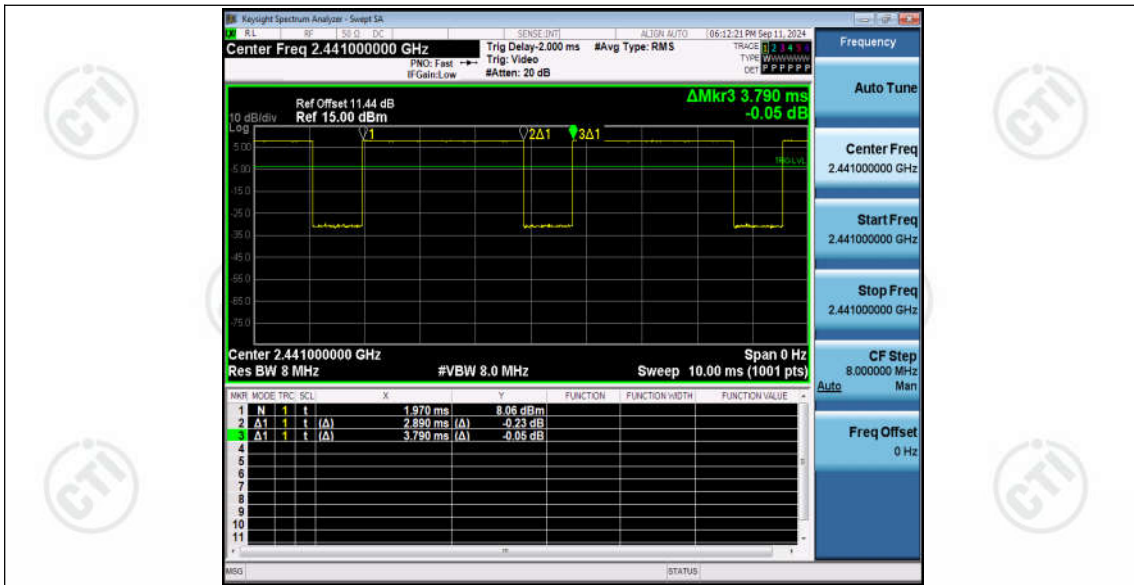




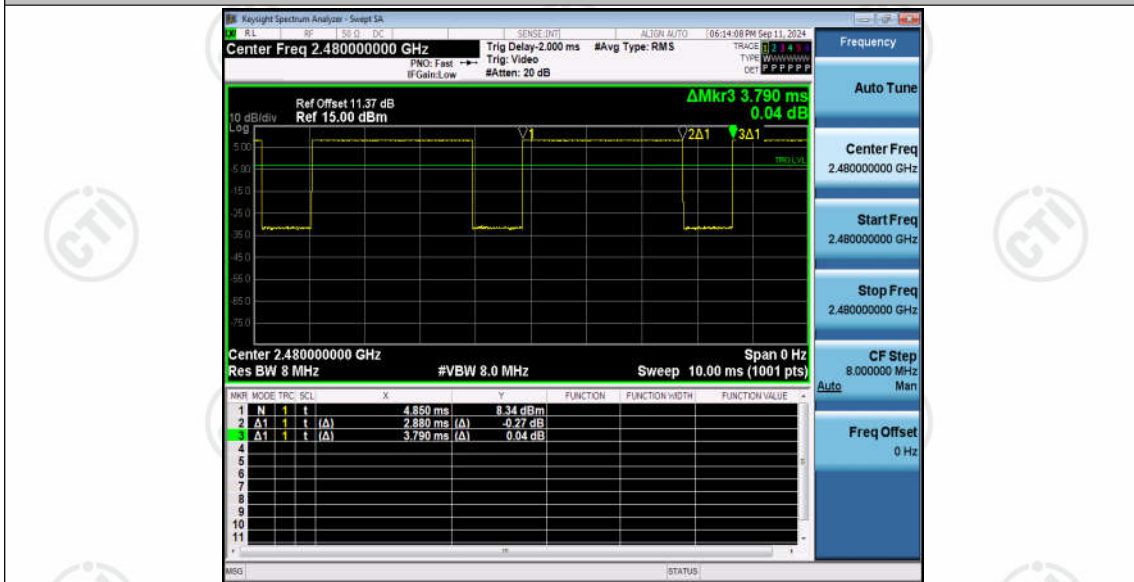
2DH5_Ant1_2402



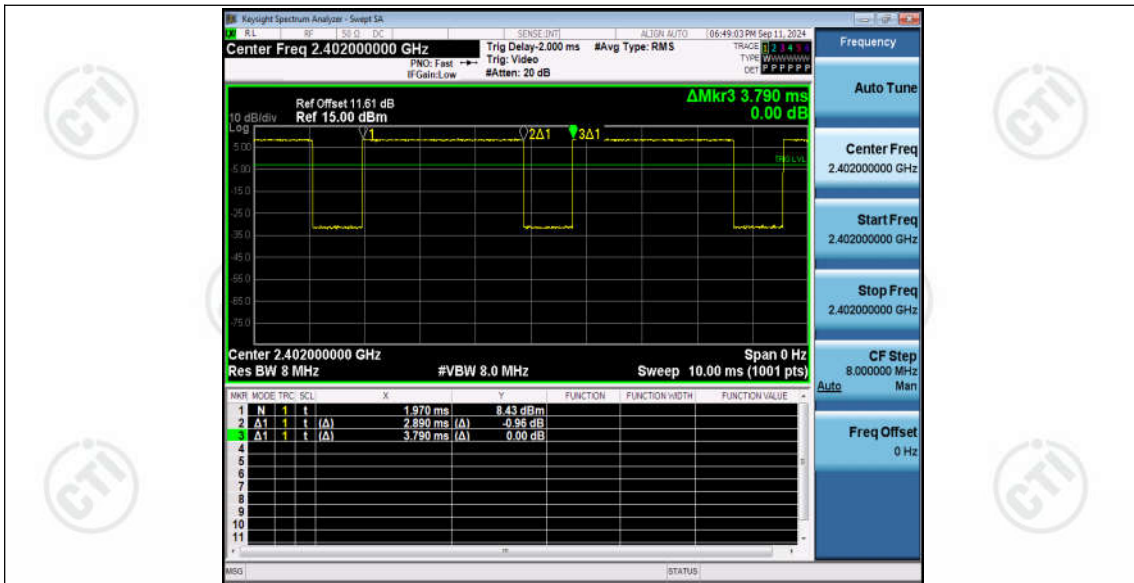
2DH5_Ant1_2441



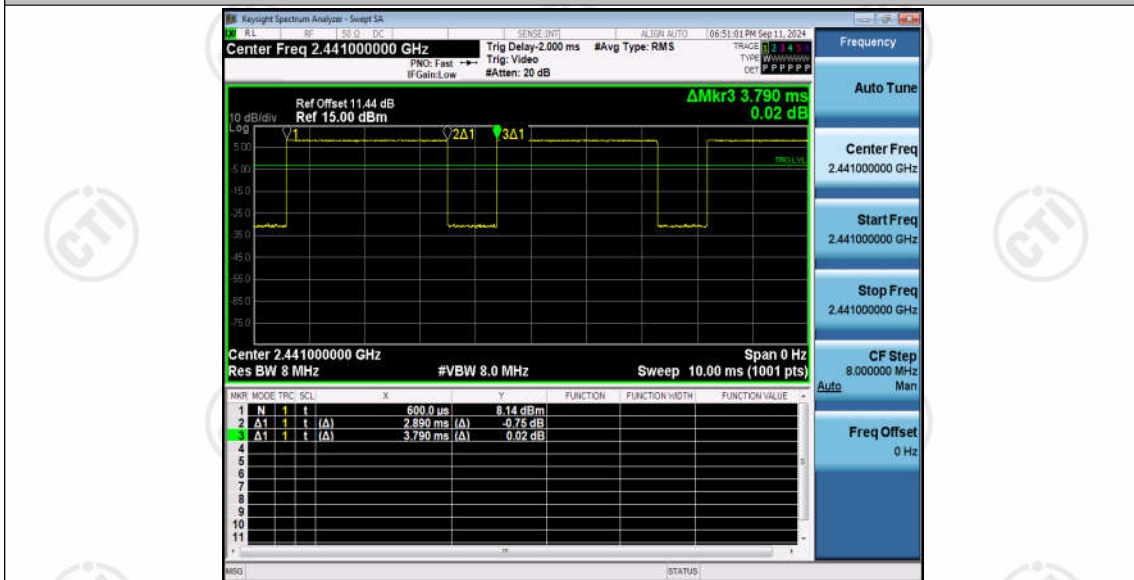
2Dh5_Ant1_2480



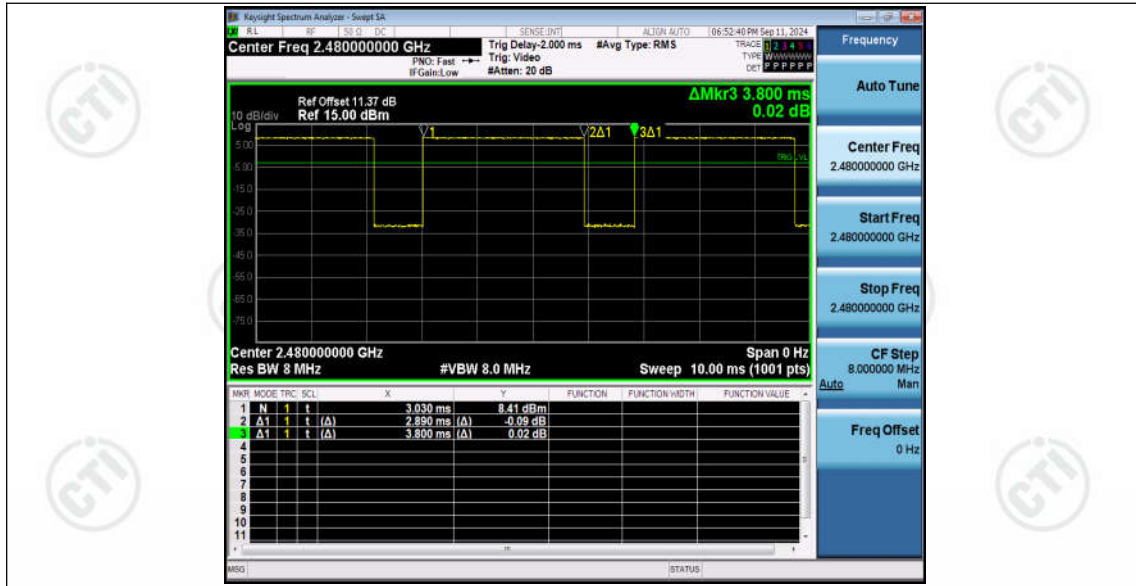
3Dh5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



END OF REPORT