

Appendix: Bluetooth Classic

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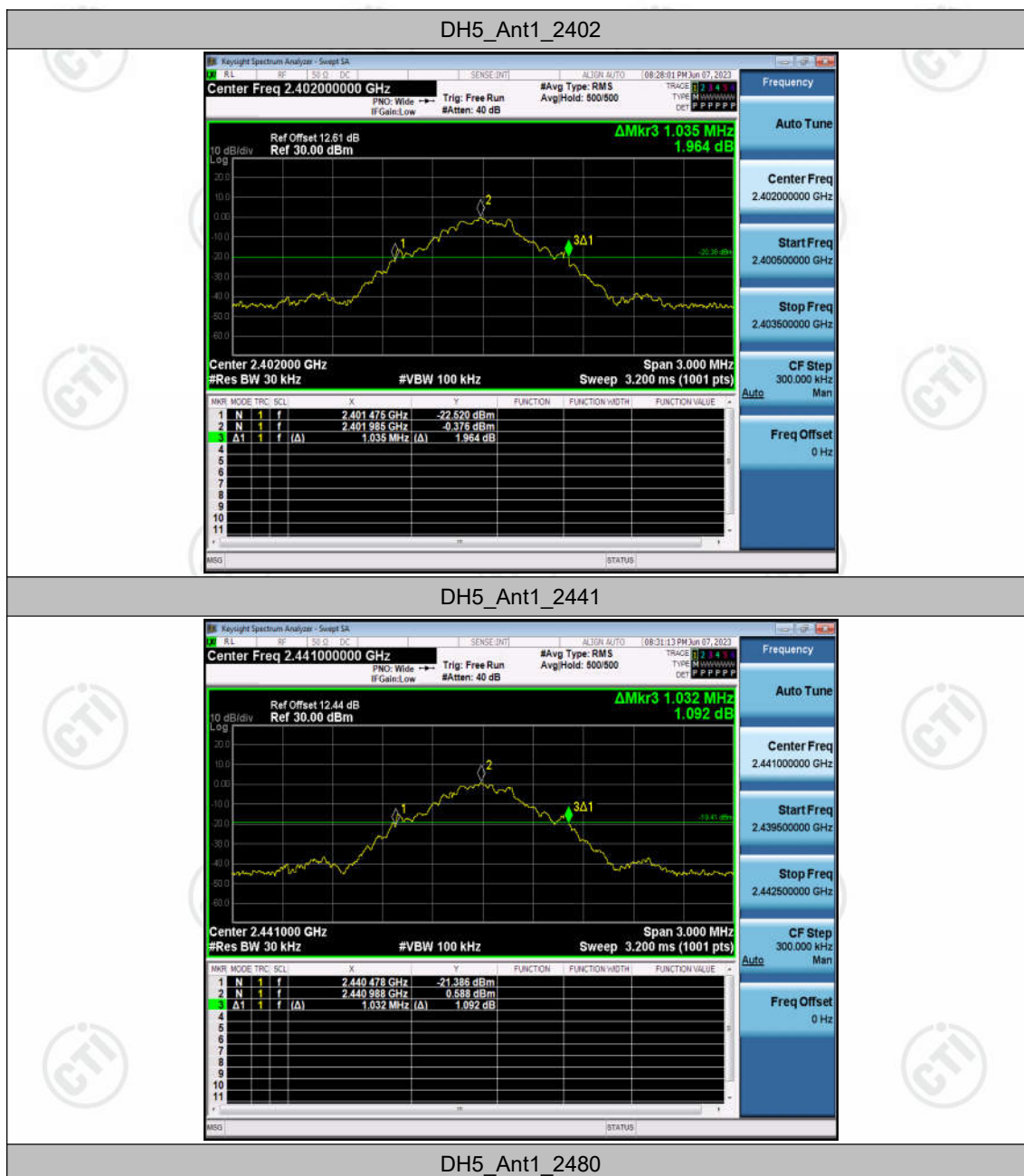
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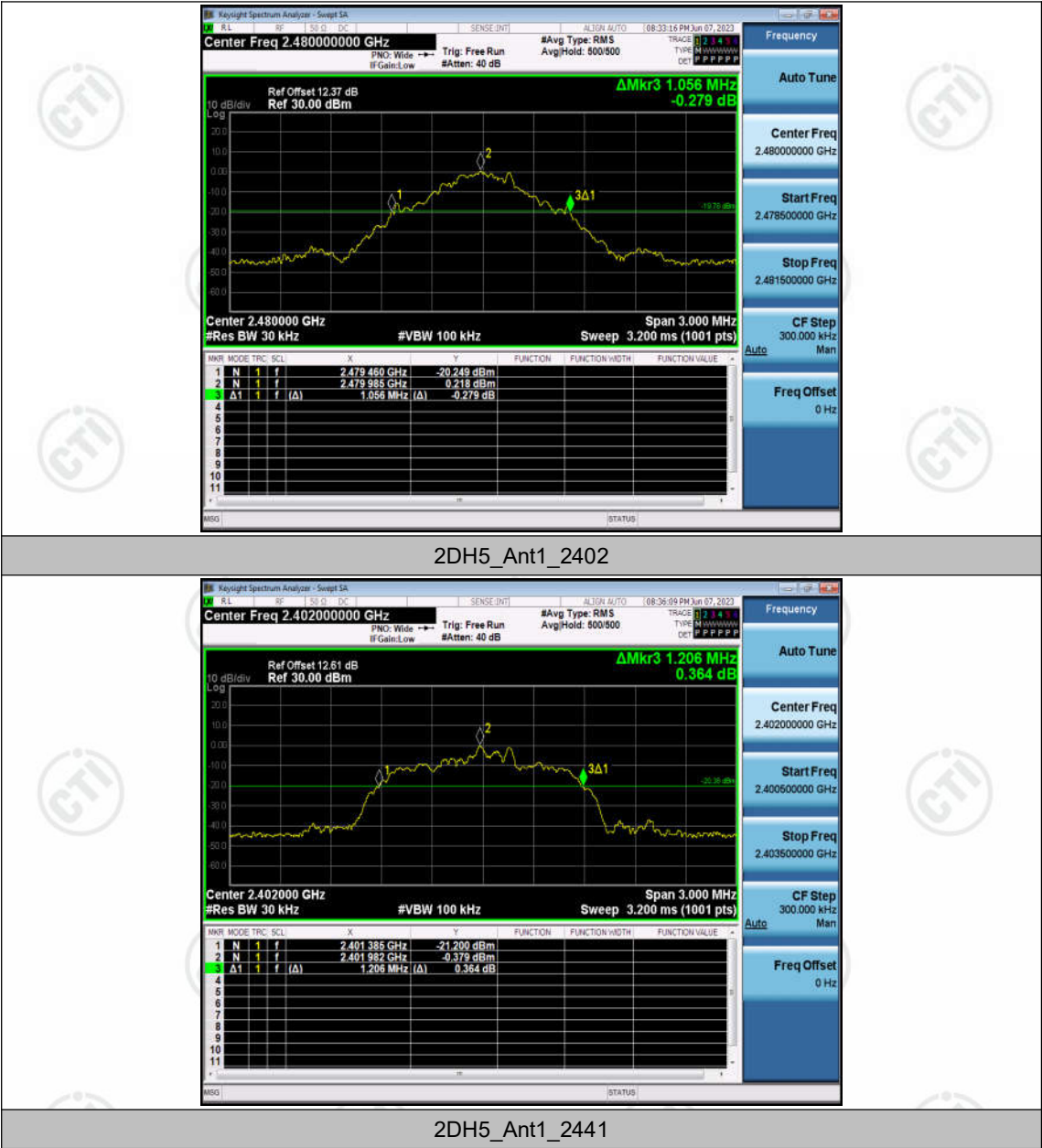
Appendix A: 20dB Emission Bandwidth

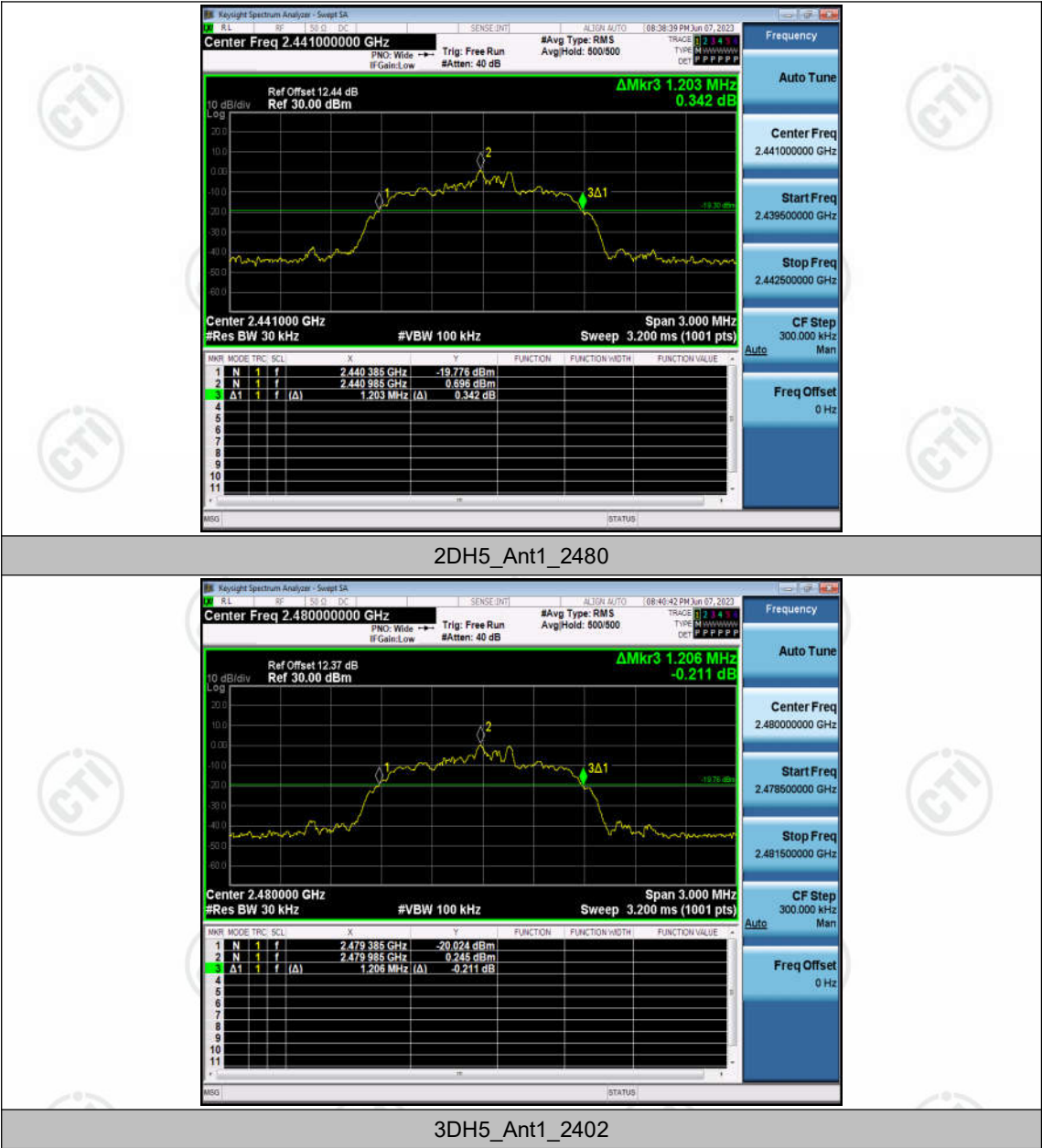
Test Result

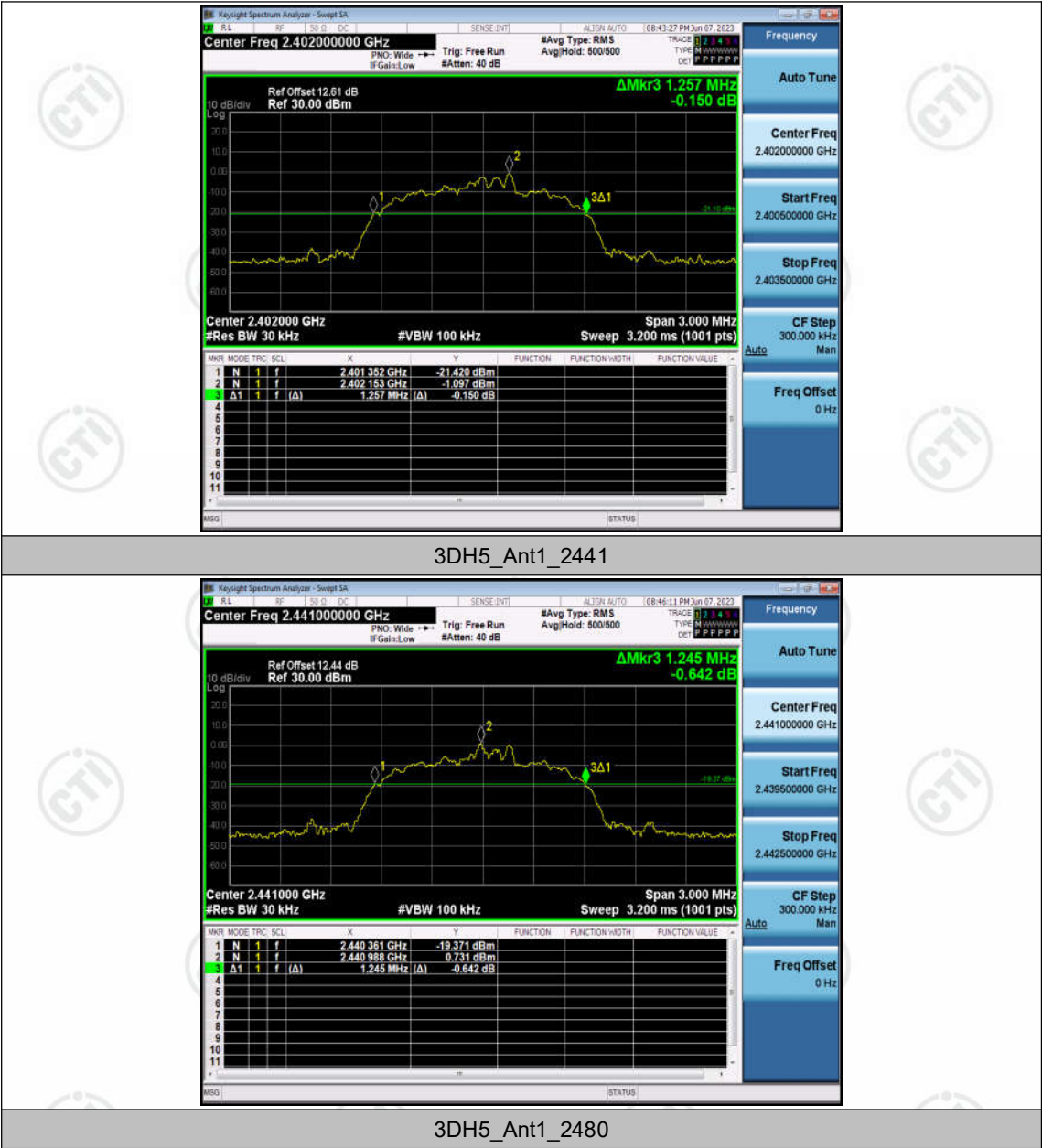
Test Mode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.035	2401.475	2402.510	---	---
		2441	1.032	2440.478	2441.510	---	---
		2480	1.056	2479.460	2480.516	---	---
2DH5	Ant1	2402	1.206	2401.385	2402.591	---	---
		2441	1.203	2440.385	2441.588	---	---
		2480	1.206	2479.385	2480.591	---	---
3DH5	Ant1	2402	1.257	2401.352	2402.609	---	---
		2441	1.245	2440.361	2441.606	---	---
		2480	1.248	2479.355	2480.603	---	---

Test Graphs









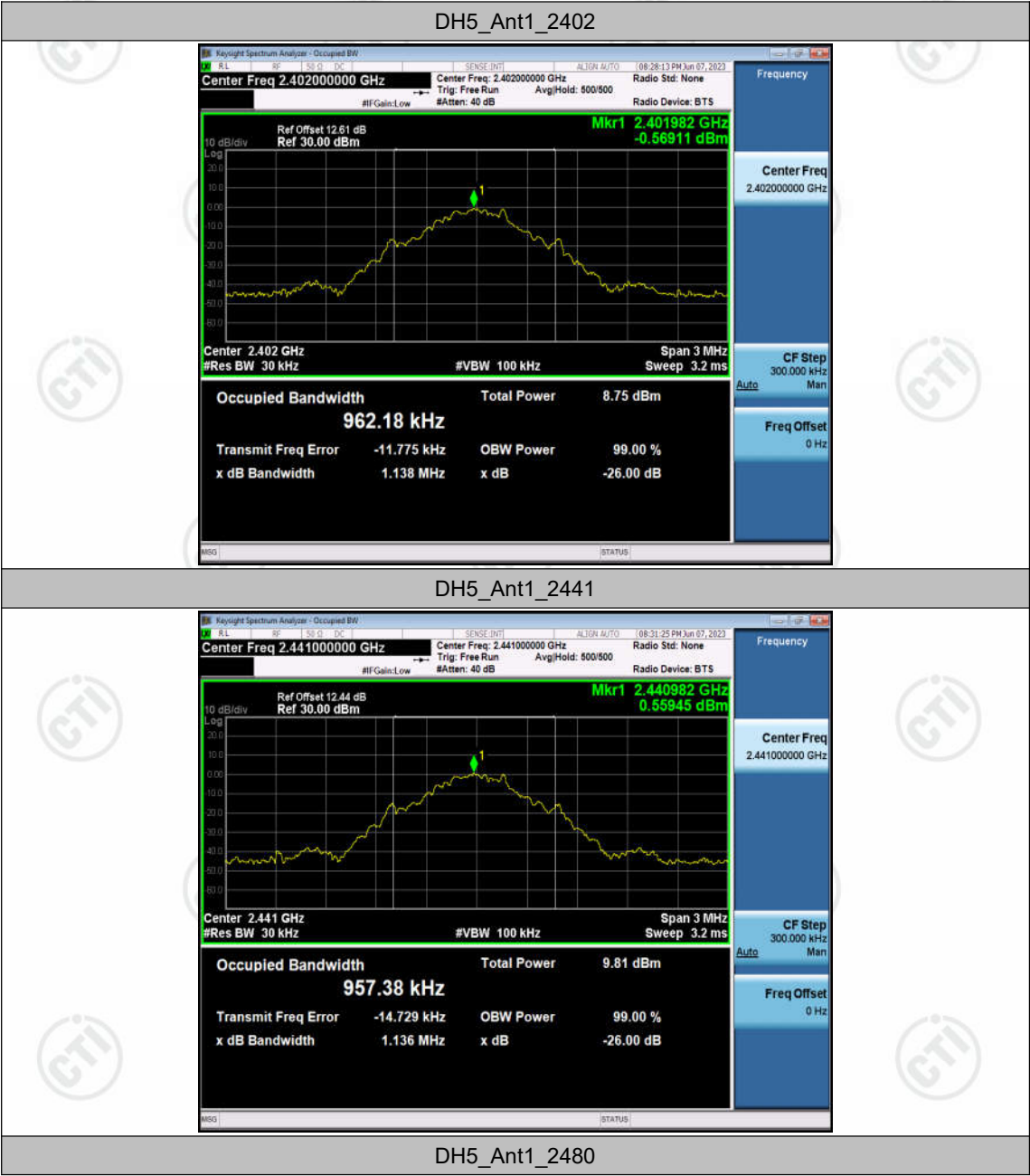


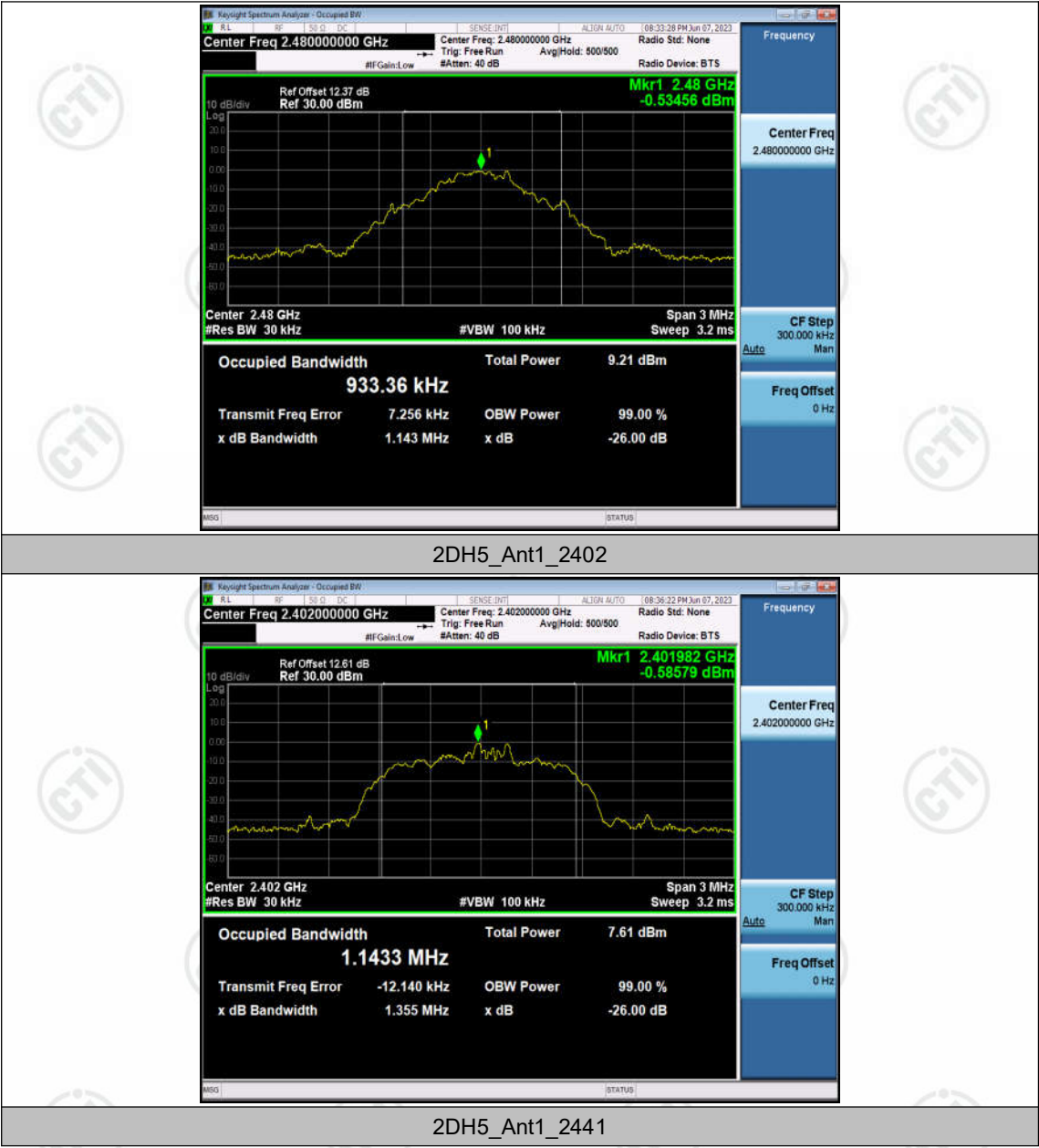
Appendix B: Occupied Channel Bandwidth

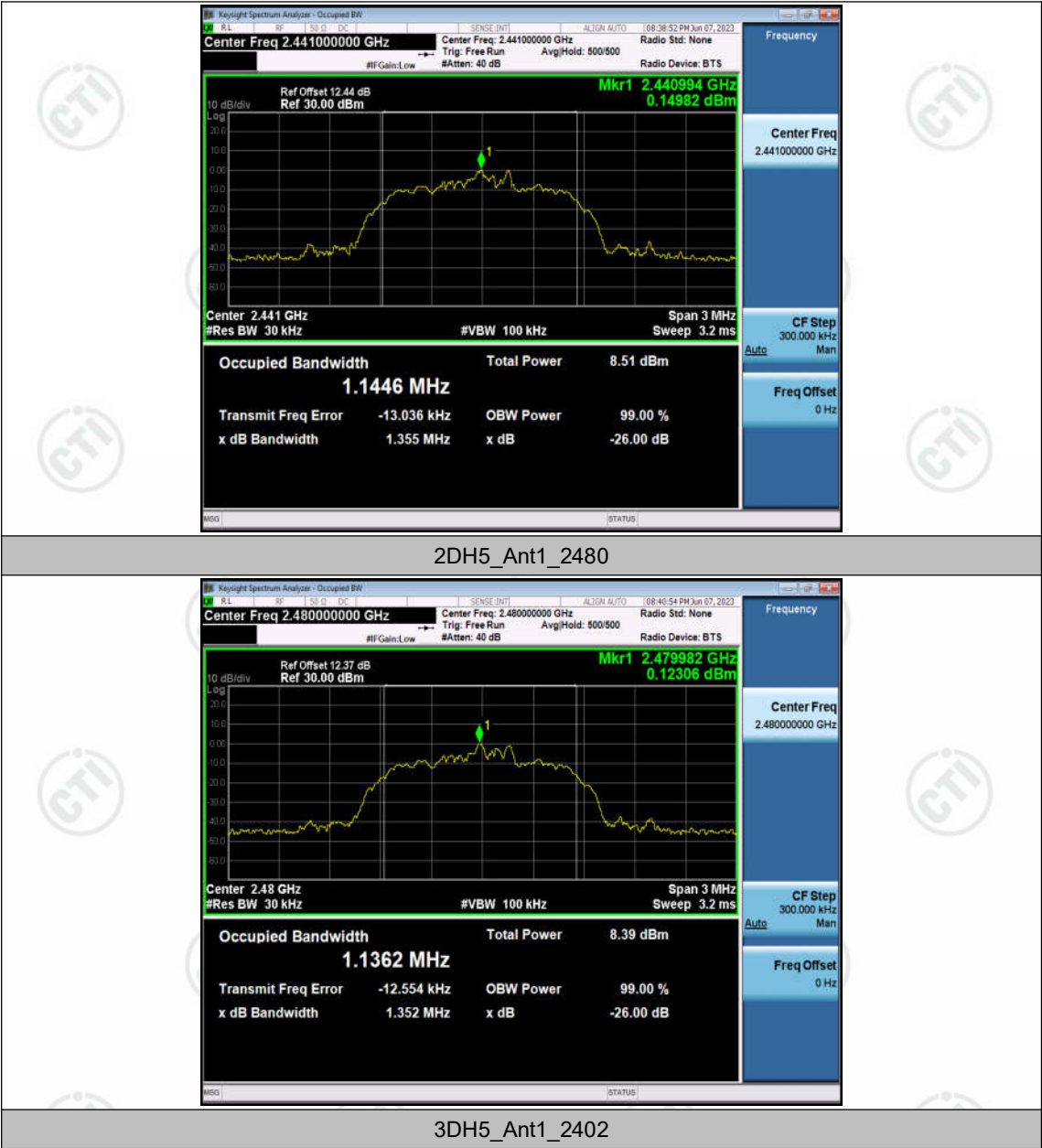
Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.96218	2401.5071	2402.4693	---	---
		2441	0.95738	2440.5066	2441.4640	---	---
		2480	0.93336	2479.5406	2480.4739	---	---
2DH5	Ant1	2402	1.1433	2401.4162	2402.5595	---	---
		2441	1.1446	2440.4147	2441.5593	---	---
		2480	1.1362	2479.4194	2480.5556	---	---
3DH5	Ant1	2402	1.1451	2401.4194	2402.5645	---	---
		2441	1.1449	2440.4192	2441.5641	---	---
		2480	1.1433	2479.4214	2480.5647	---	---

Test Graphs









3DH5_Ant1_2441



3DH5_Ant1_2480

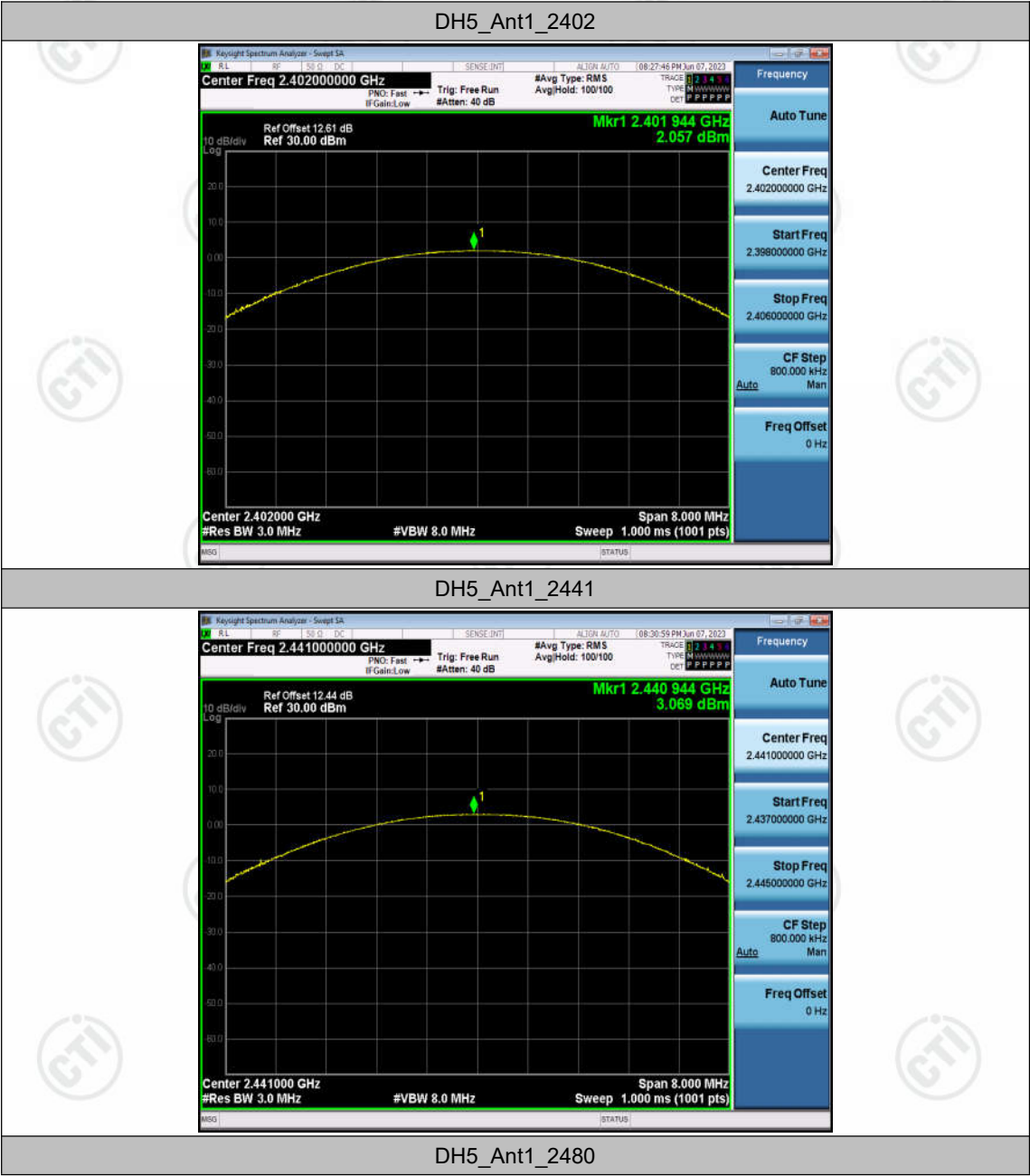


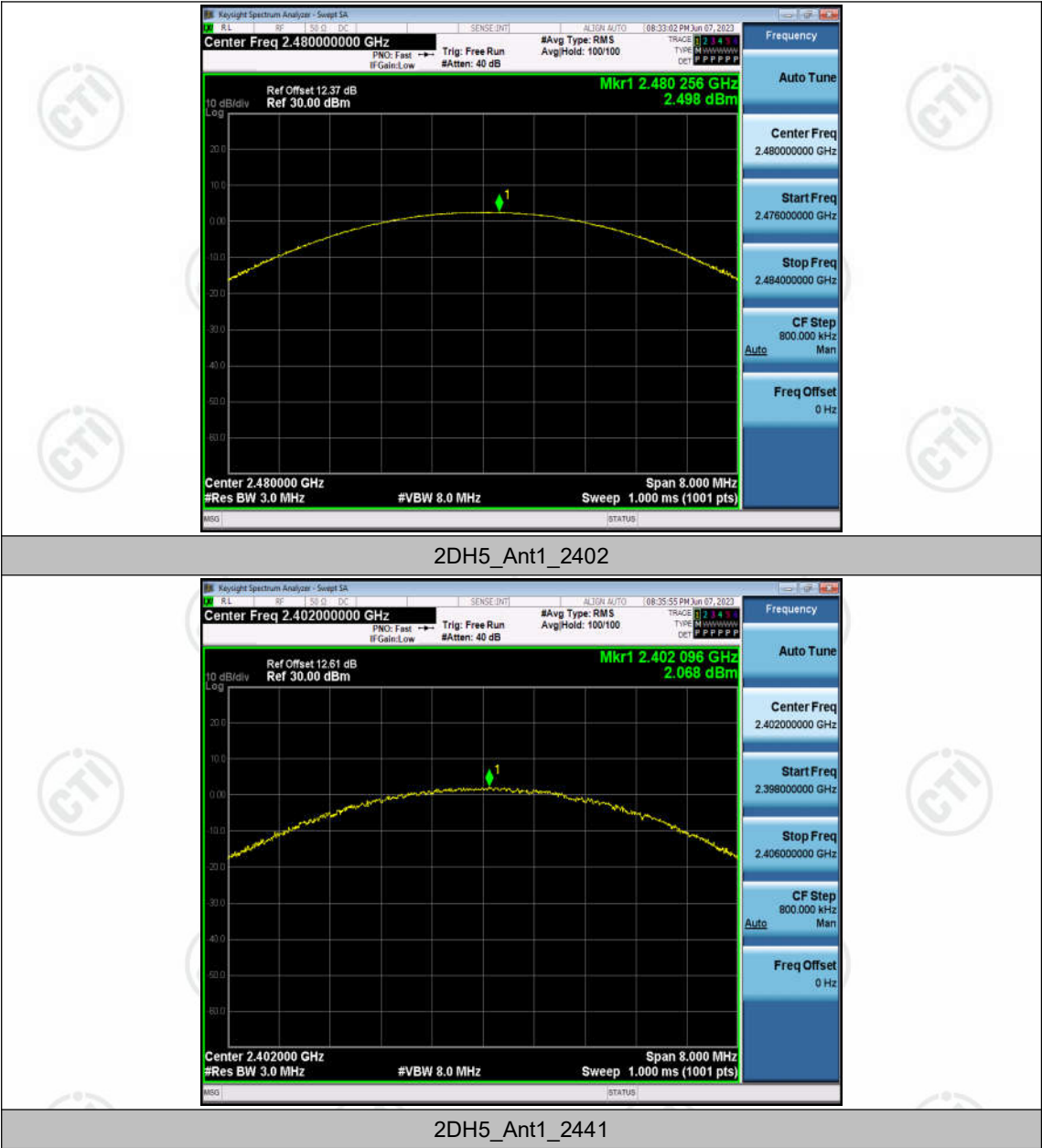
Appendix C: Maximum conducted output power

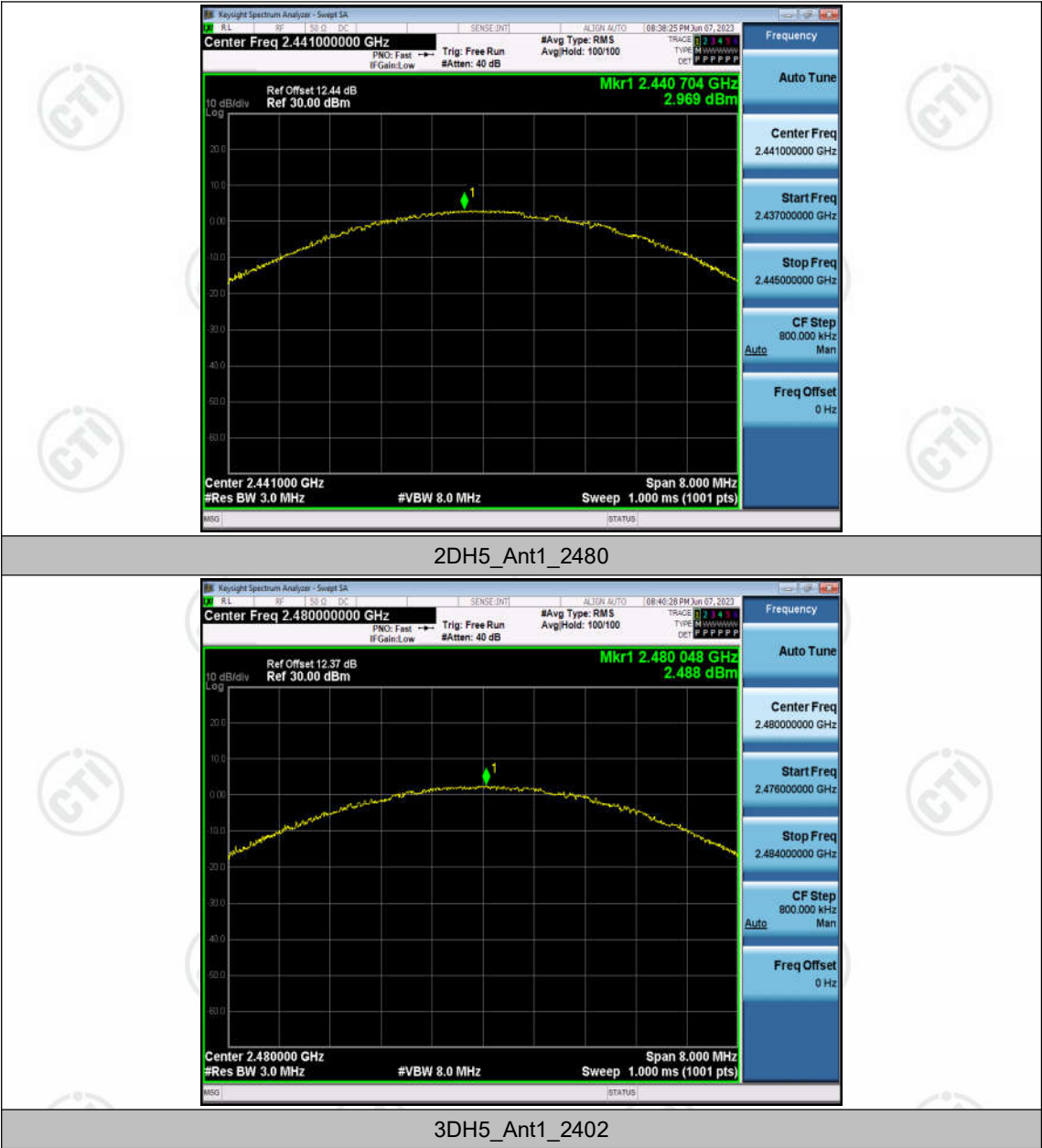
Test Result

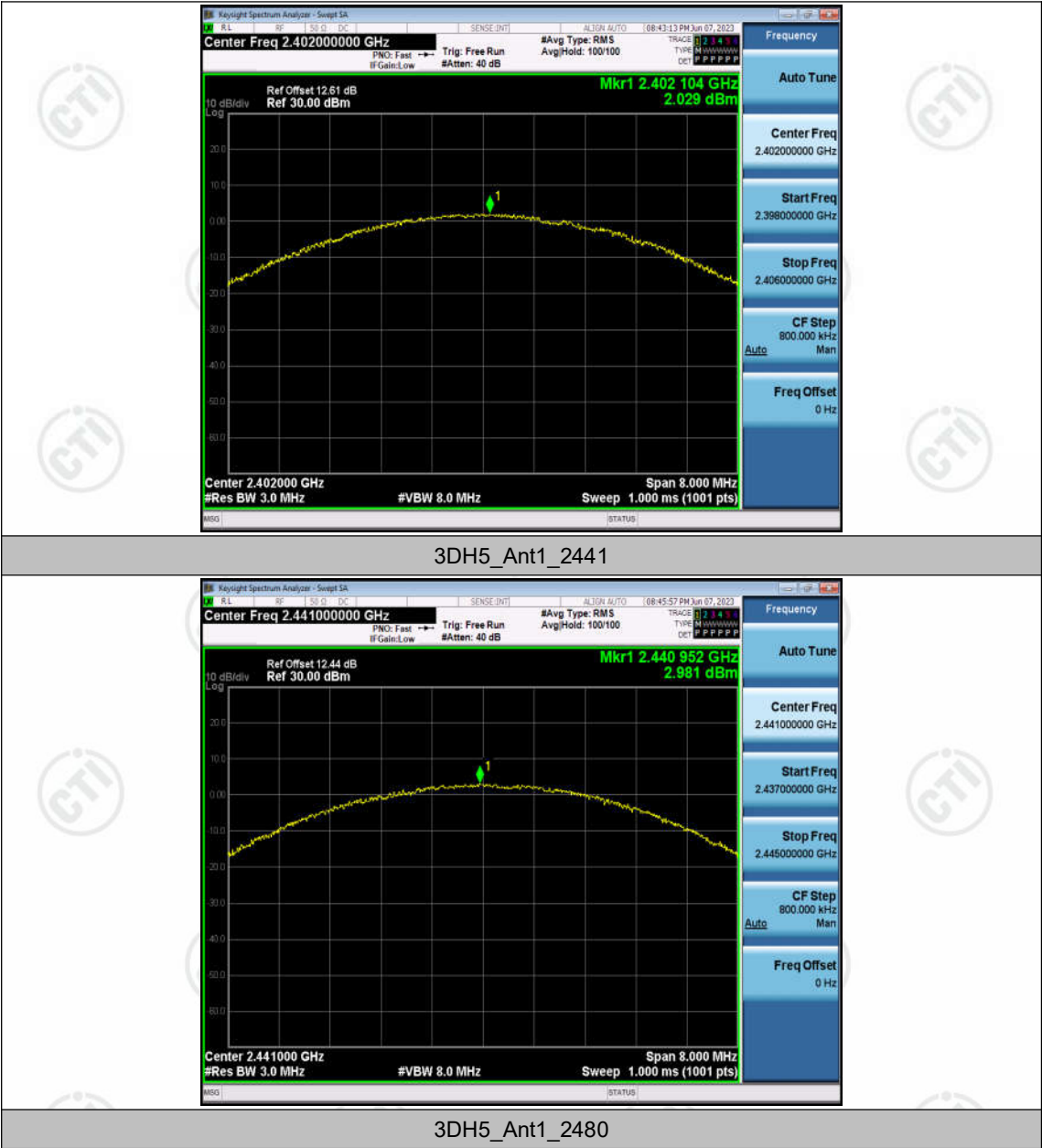
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	2.06	≤30	PASS
		2441	3.07	≤20.97	PASS
		2480	2.5	≤20.97	PASS
2DH5	Ant1	2402	2.07	≤30	PASS
		2441	2.97	≤20.97	PASS
		2480	2.49	≤20.97	PASS
3DH5	Ant1	2402	2.03	≤30	PASS
		2441	2.98	≤20.97	PASS
		2480	2.45	≤20.97	PASS

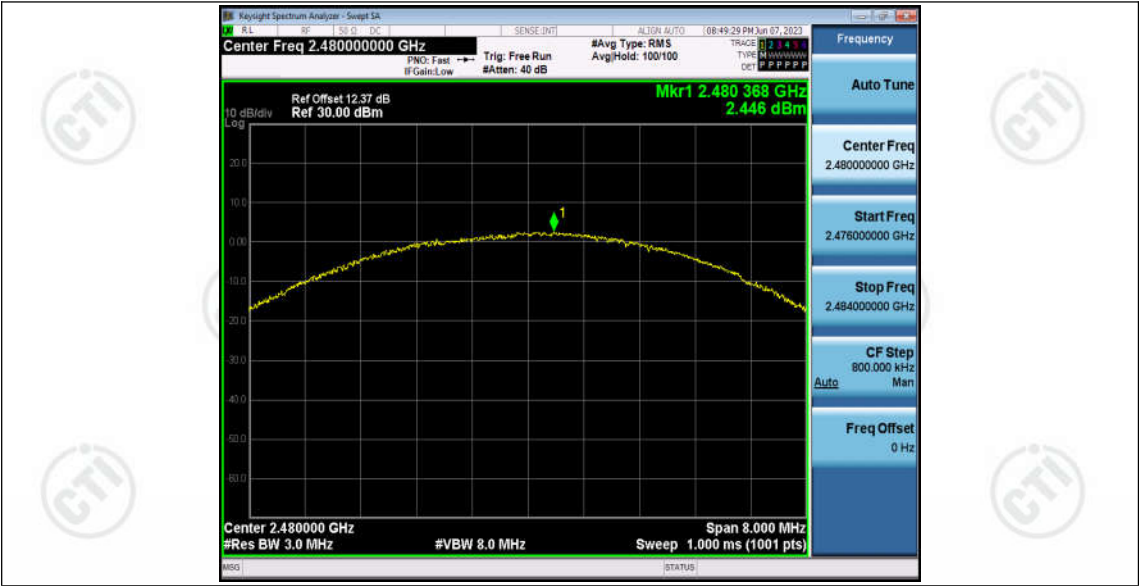
Test Graphs









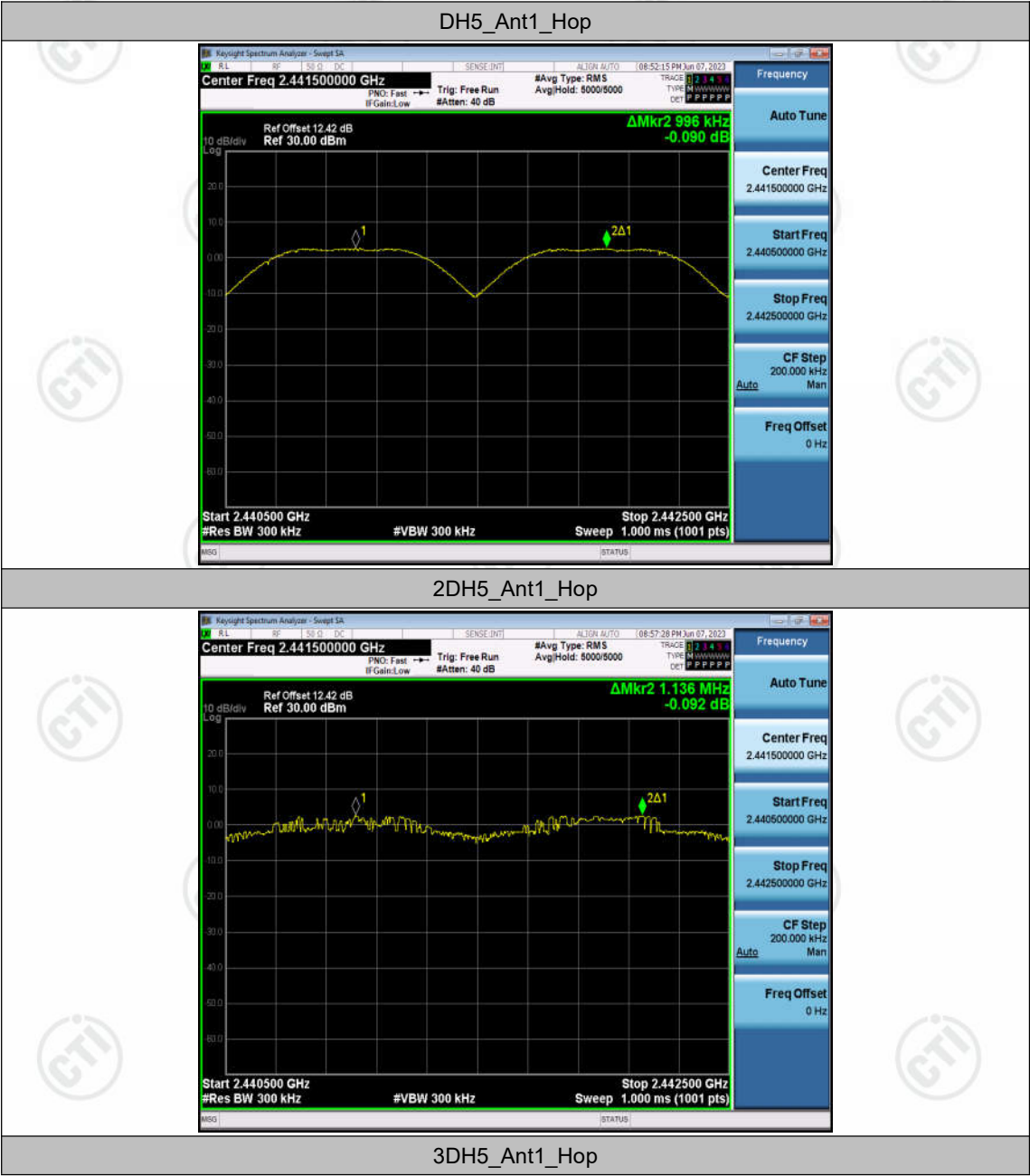


Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.996	≥0.704	PASS
2DH5	Ant1	Hop	1.136	≥0.804	PASS
3DH5	Ant1	Hop	1.184	≥0.838	PASS

Test Graphs



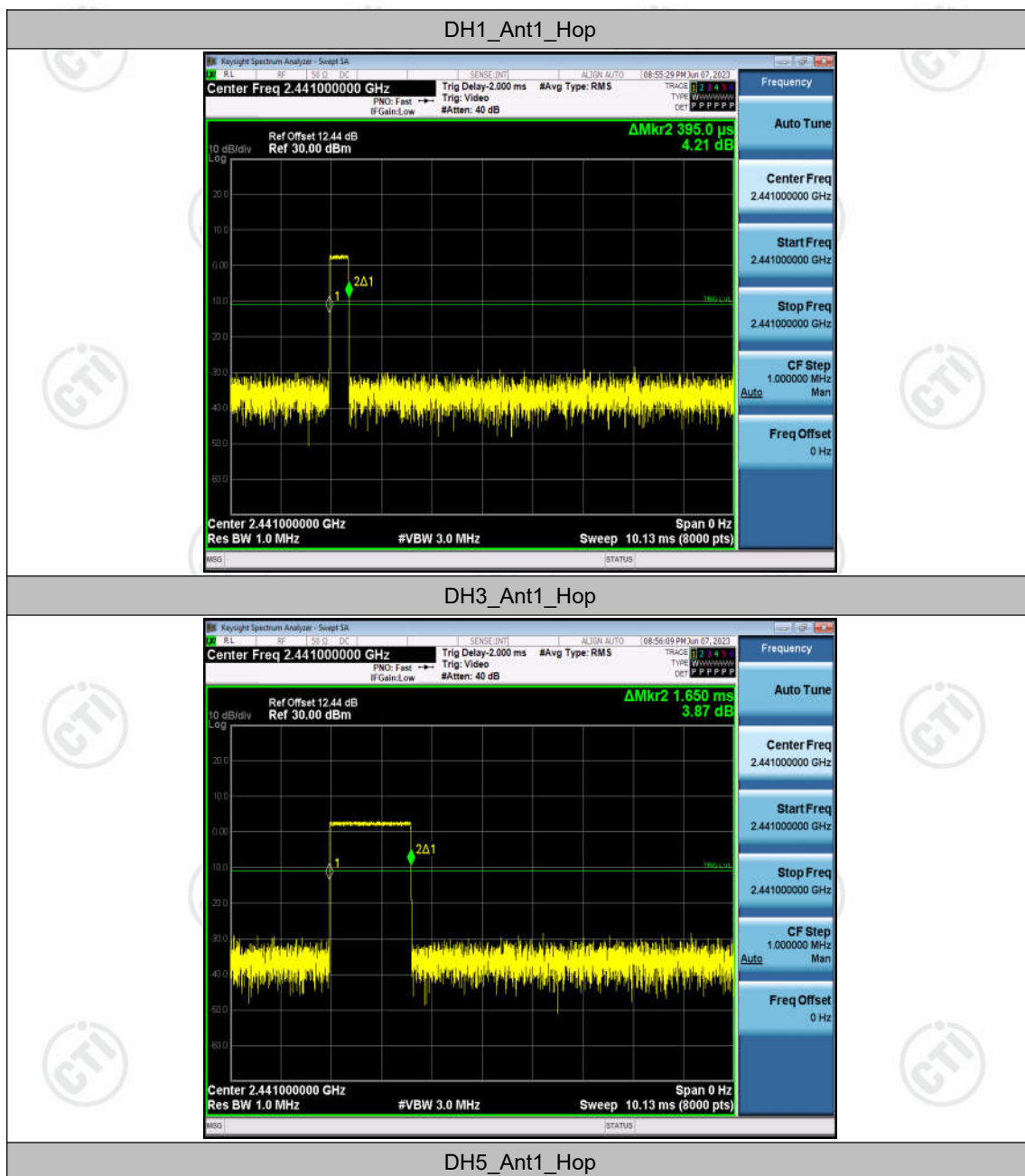


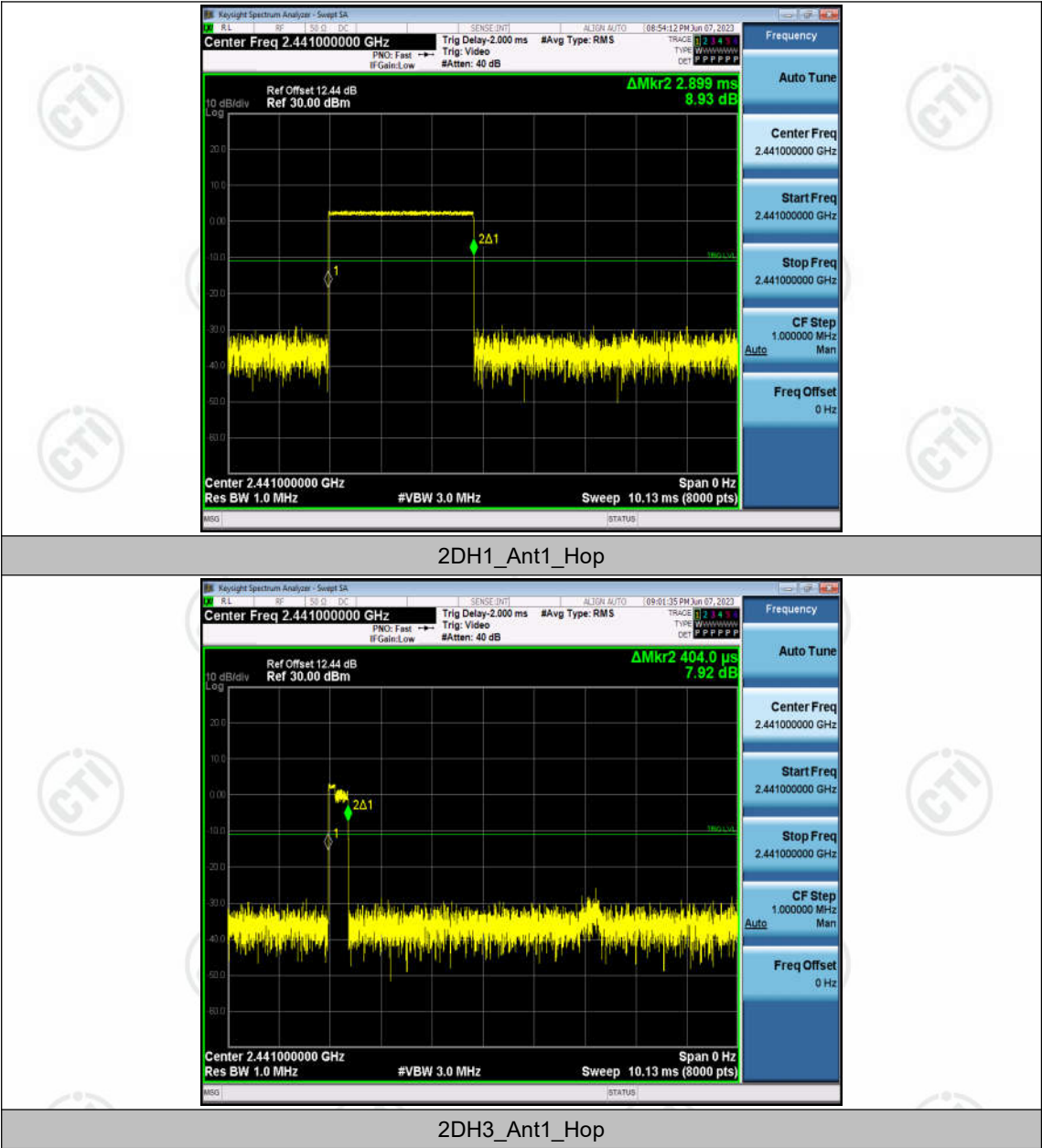
Appendix E: Time of occupancy

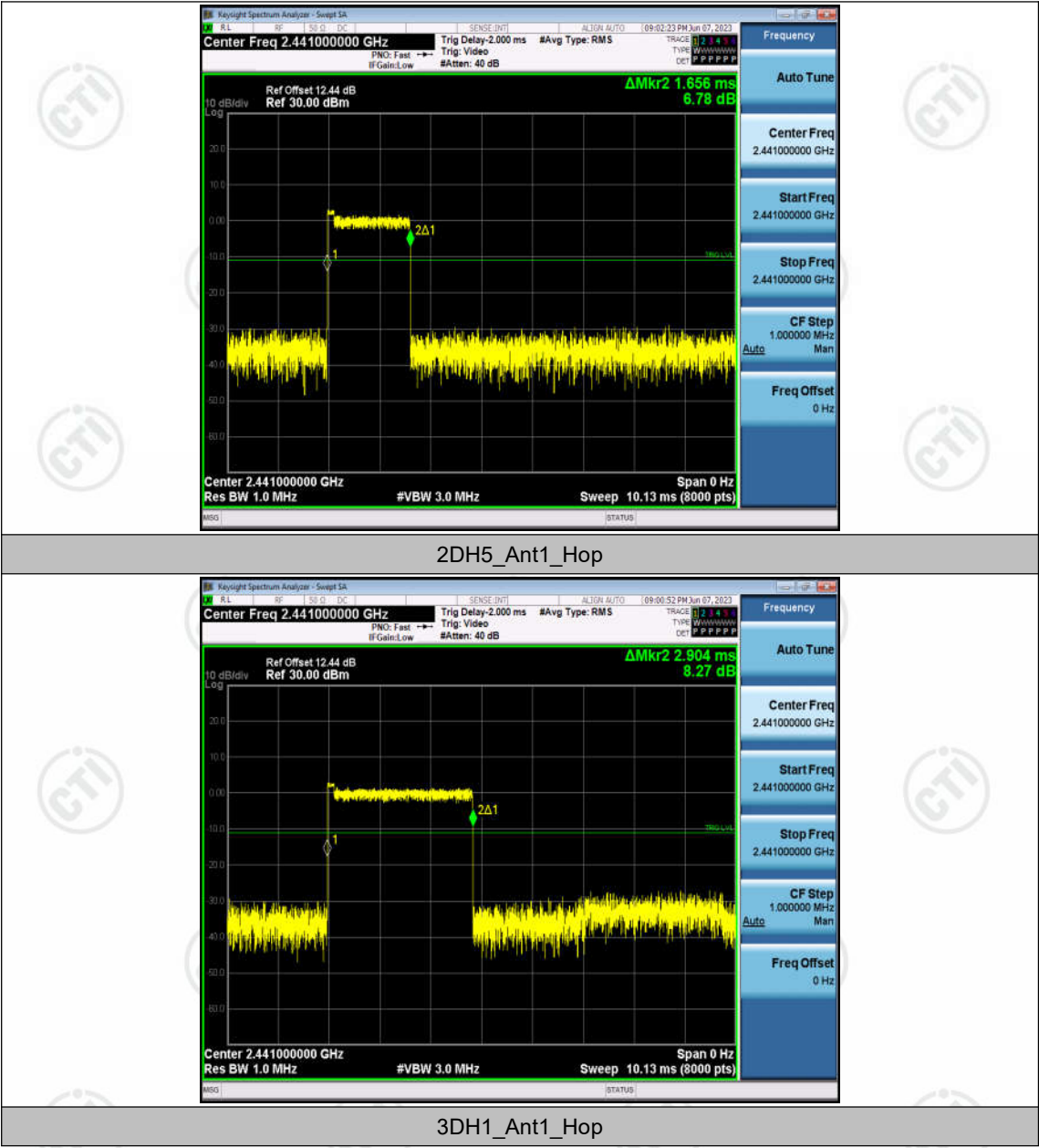
Test Result

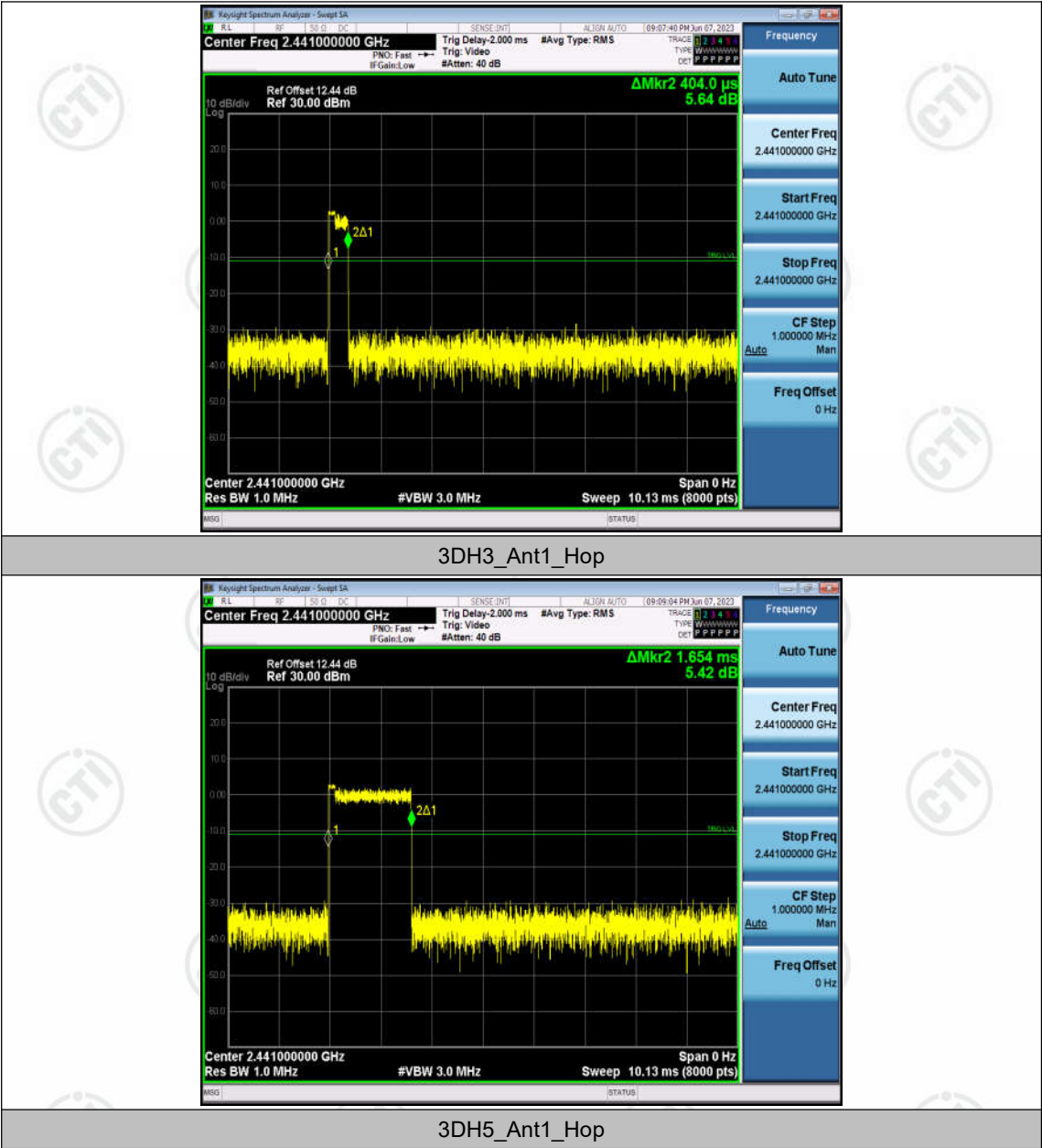
Test Mode	Antenna	Frequency[MHz]	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.395	320	0.126	≤0.4	PASS
DH3	Ant1	Hop	1.650	160	0.264	≤0.4	PASS
DH5	Ant1	Hop	2.899	106.67	0.309	≤0.4	PASS
2DH1	Ant1	Hop	0.404	320	0.129	≤0.4	PASS
2DH3	Ant1	Hop	1.656	160	0.265	≤0.4	PASS
2DH5	Ant1	Hop	2.904	106.67	0.31	≤0.4	PASS
3DH1	Ant1	Hop	0.404	320	0.129	≤0.4	PASS
3DH3	Ant1	Hop	1.654	160	0.265	≤0.4	PASS
3DH5	Ant1	Hop	2.904	106.67	0.31	≤0.4	PASS

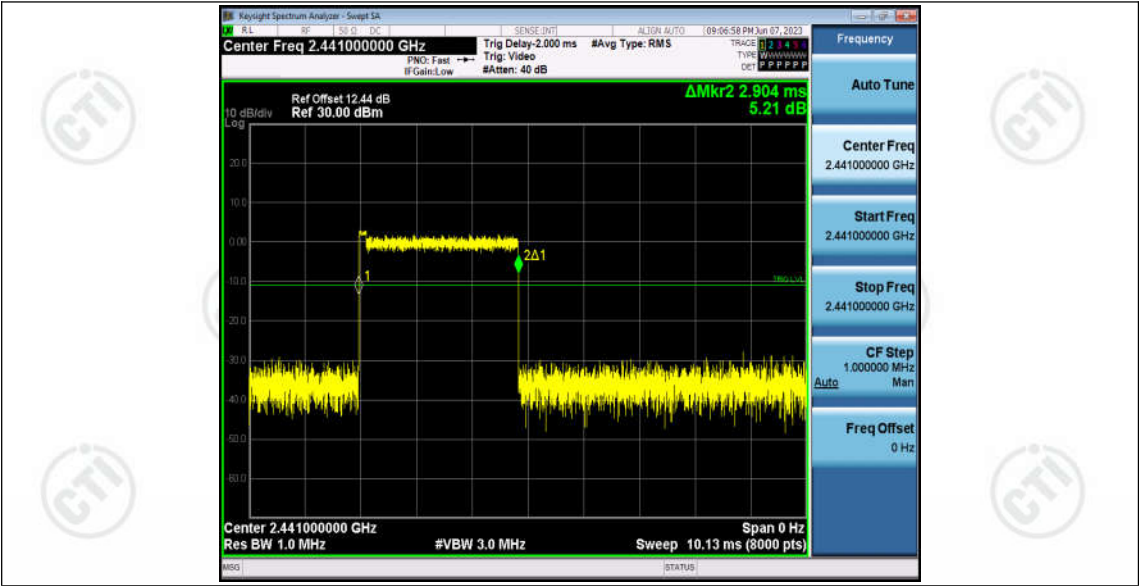
Test Graphs









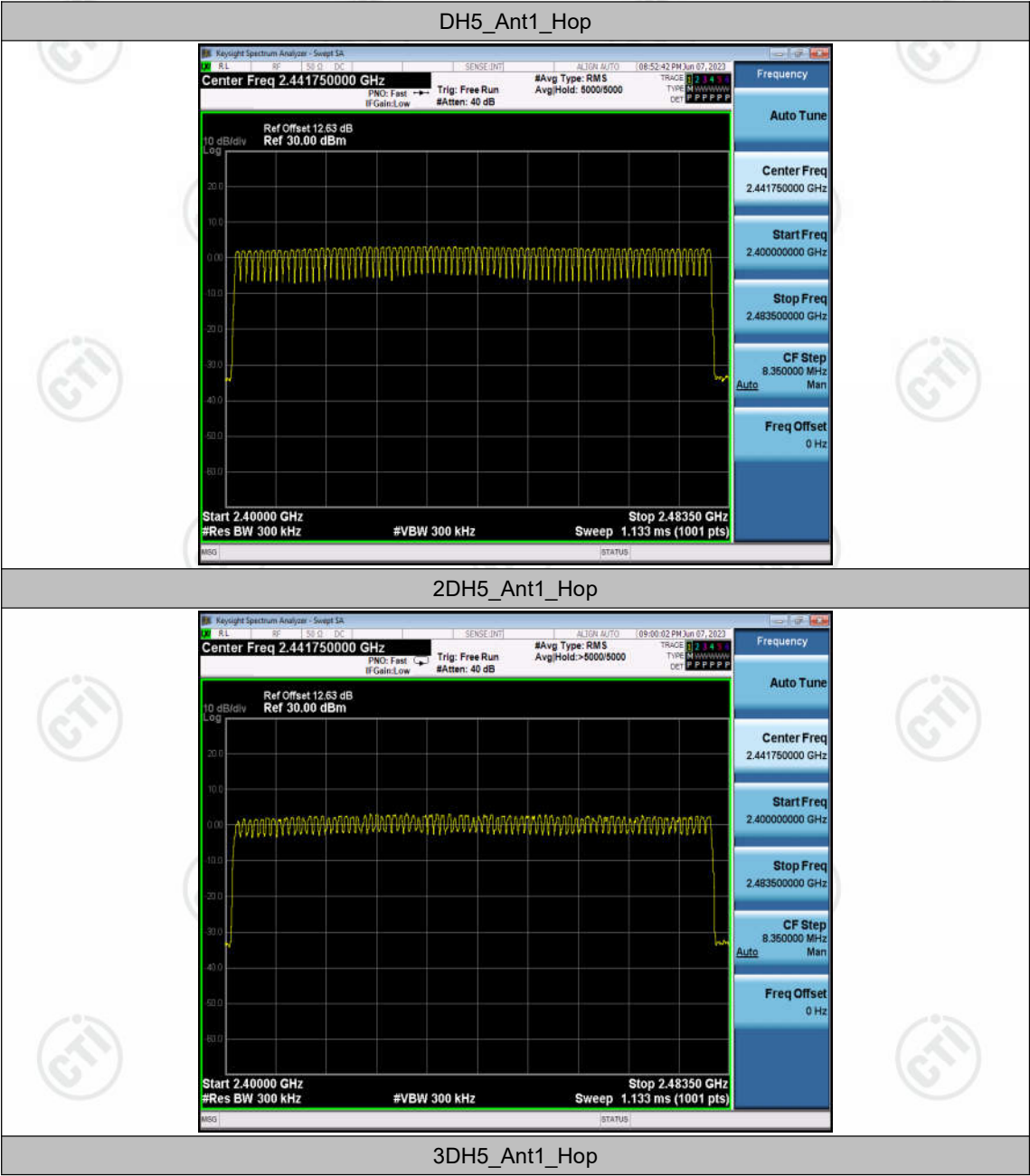


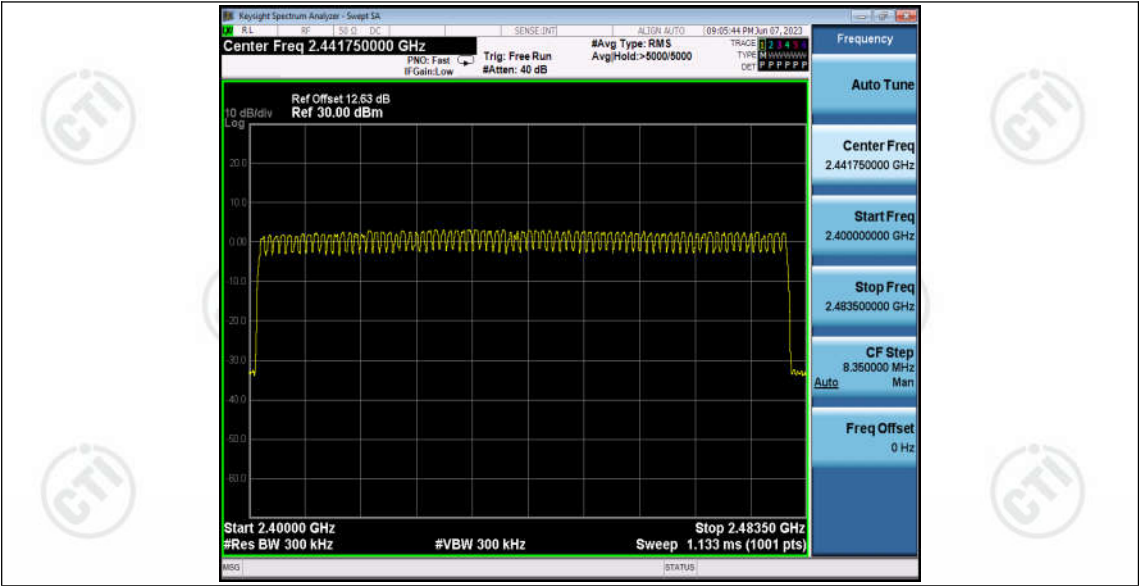
Appendix F: Number of hopping channels

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





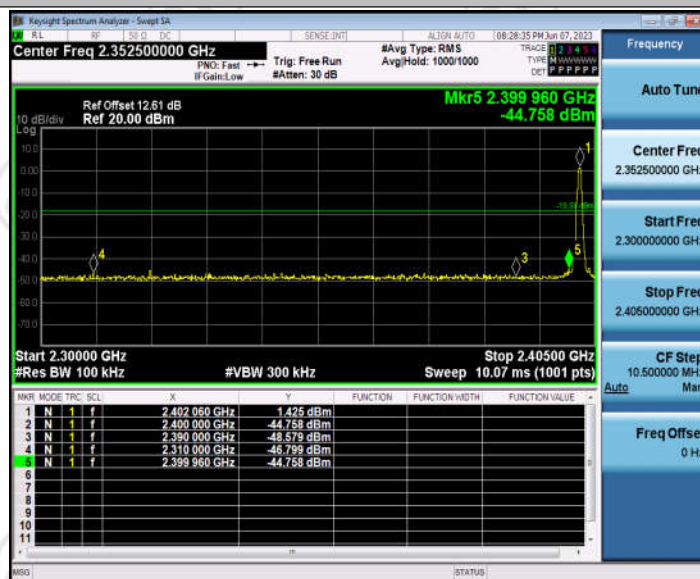
Appendix G: Band edge measurements

Test Result

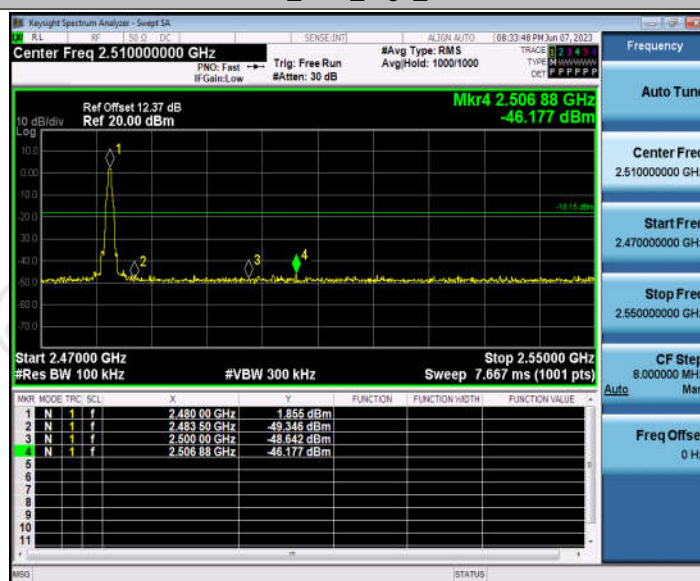
Test Mode	Antenna	Ch Name	Frequency[MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.43	-44.76	≤-18.58	PASS
		High	2480	1.86	-46.18	≤-18.15	PASS
		Low	Hop_2402	0.93	-45.85	≤-19.07	PASS
		High	Hop_2480	1.79	-47	≤-18.21	PASS
2DH5	Ant1	Low	2402	1.50	-46.46	≤-18.5	PASS
		High	2480	1.15	-45.27	≤-18.85	PASS
		Low	Hop_2402	-0.61	-45.76	≤-20.61	PASS
		High	Hop_2480	0.90	-46.29	≤-19.11	PASS
3DH5	Ant1	Low	2402	1.50	-46.39	≤-18.5	PASS
		High	2480	1.14	-45.51	≤-18.86	PASS
		Low	Hop_2402	-3.80	-46.15	≤-23.8	PASS
		High	Hop_2480	1.74	-46.9	≤-18.27	PASS

Test Graphs

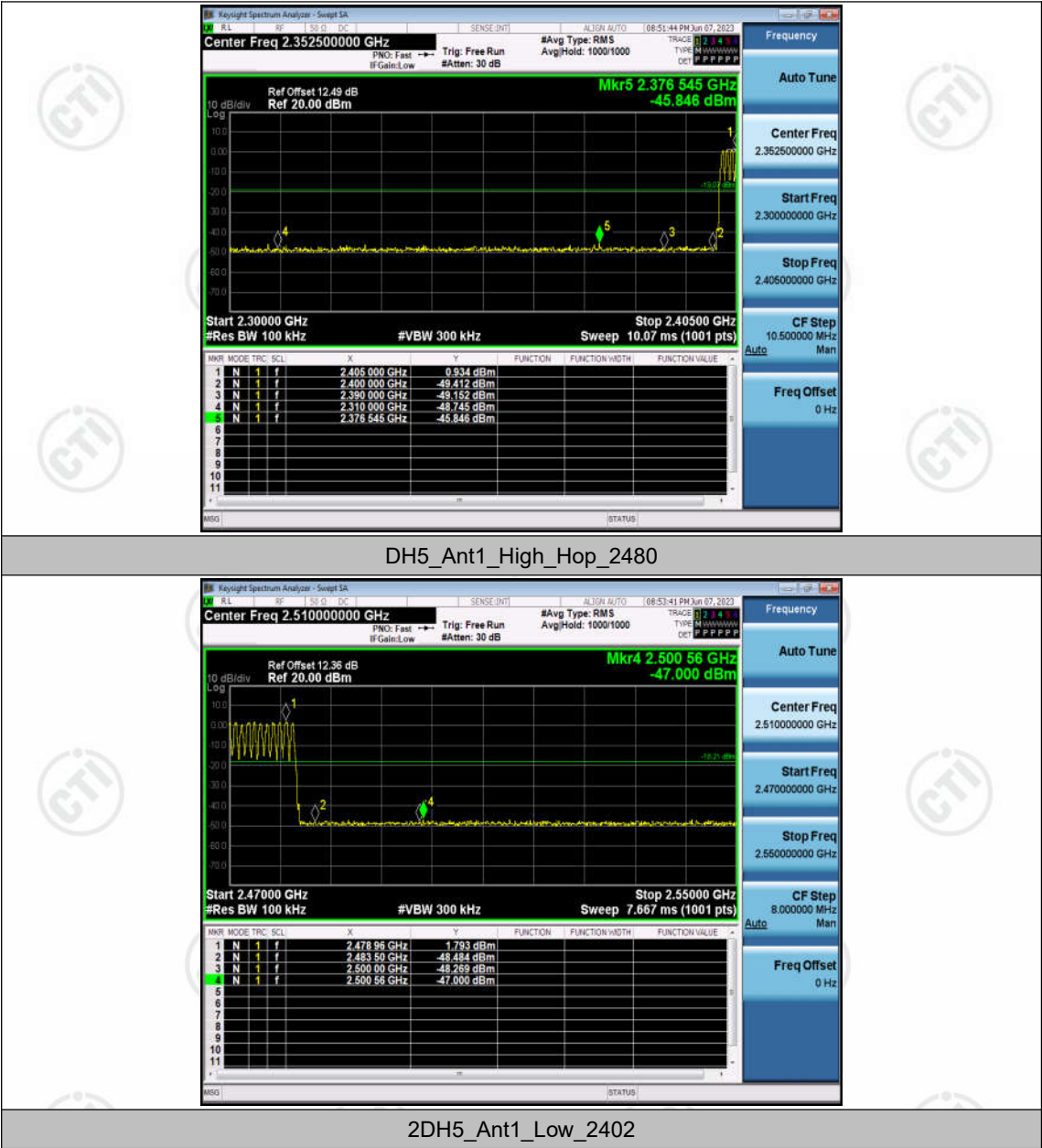
DH5_Ant1_Low_2402

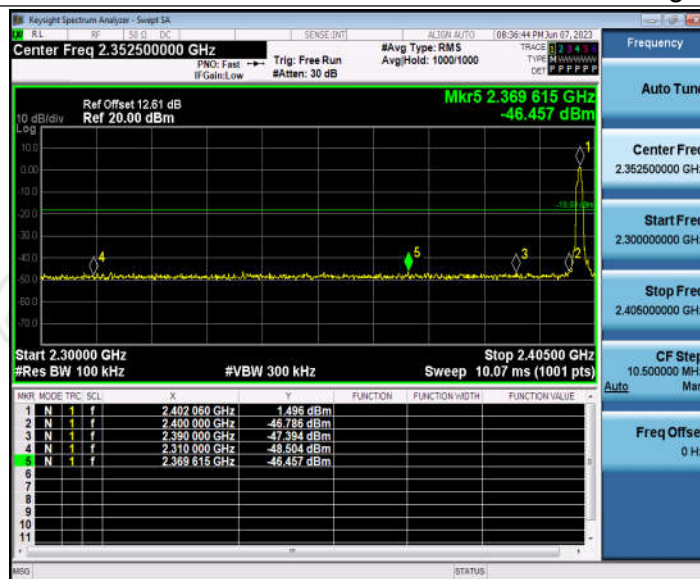


DH5_Ant1_High_2480

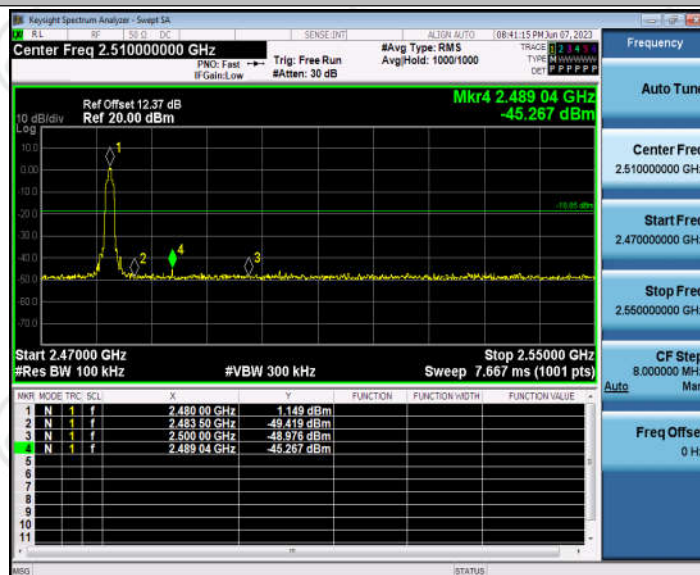


DH5_Ant1_Low_Hop_2402

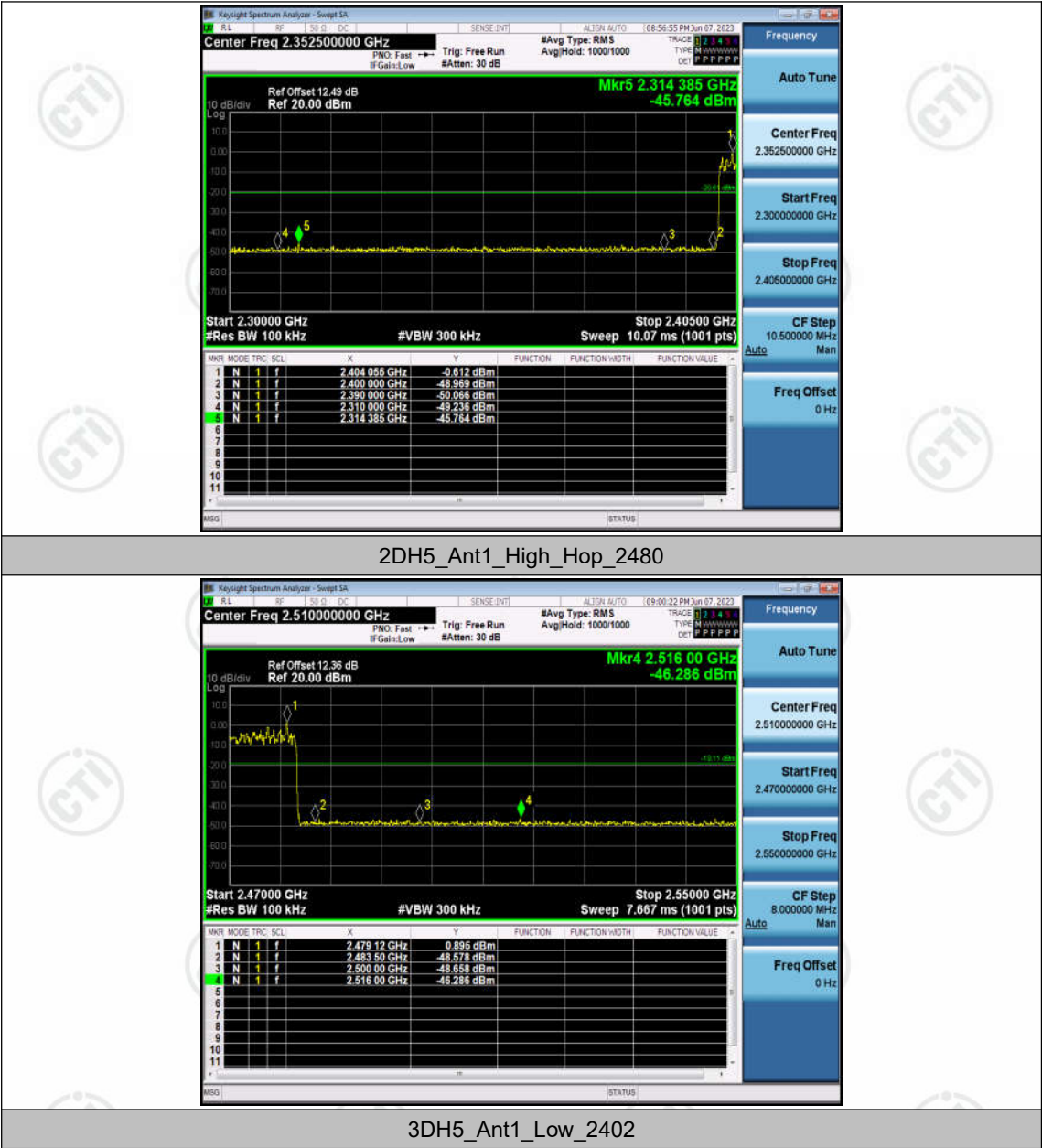


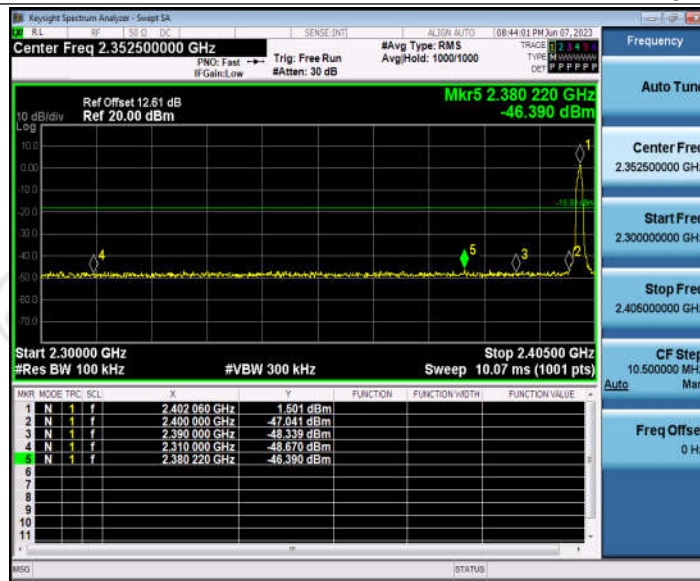


2DH5_Ant1_High_2480

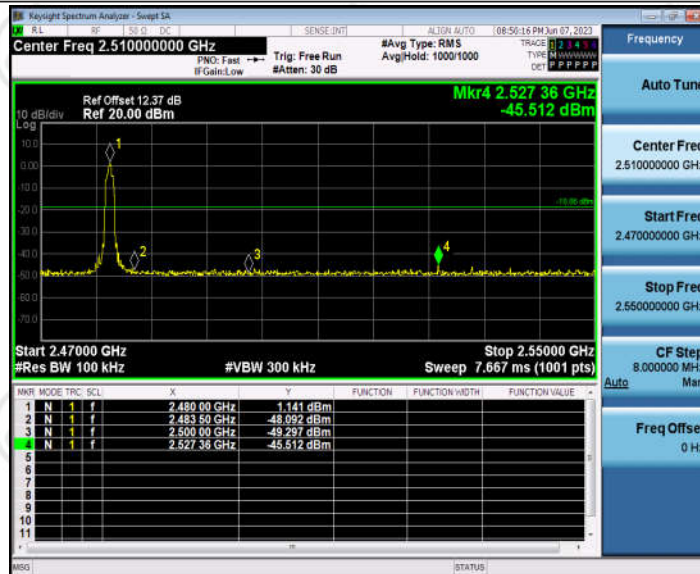


2DH5_Ant1_Low_Hop_2402

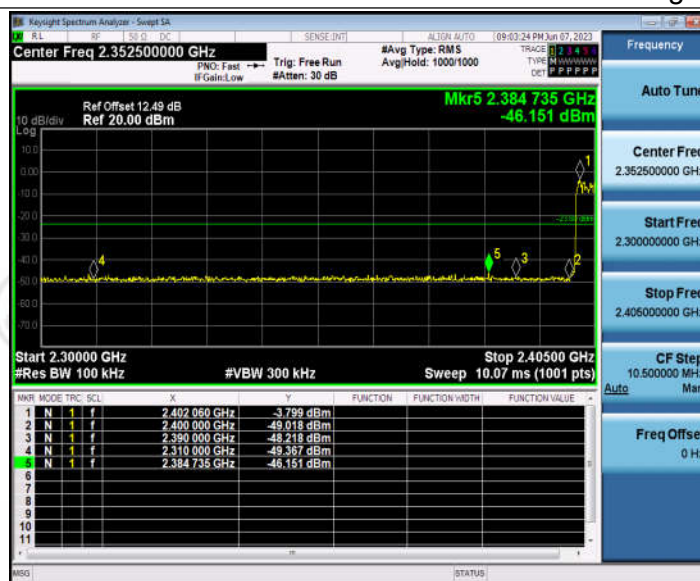




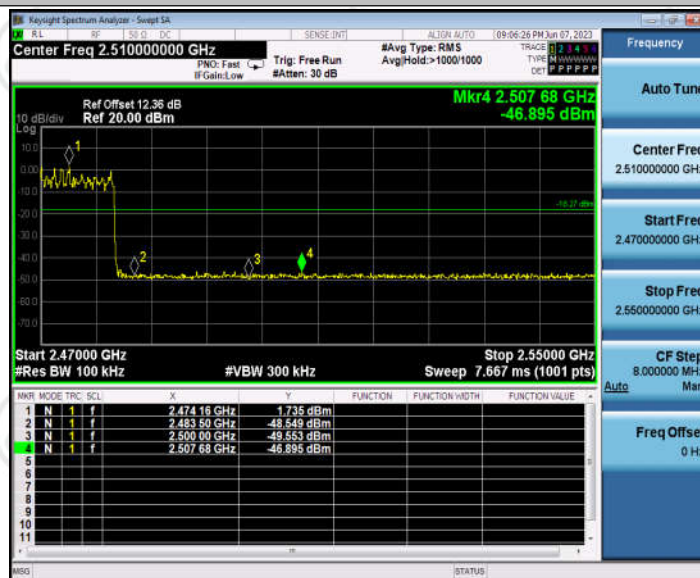
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480



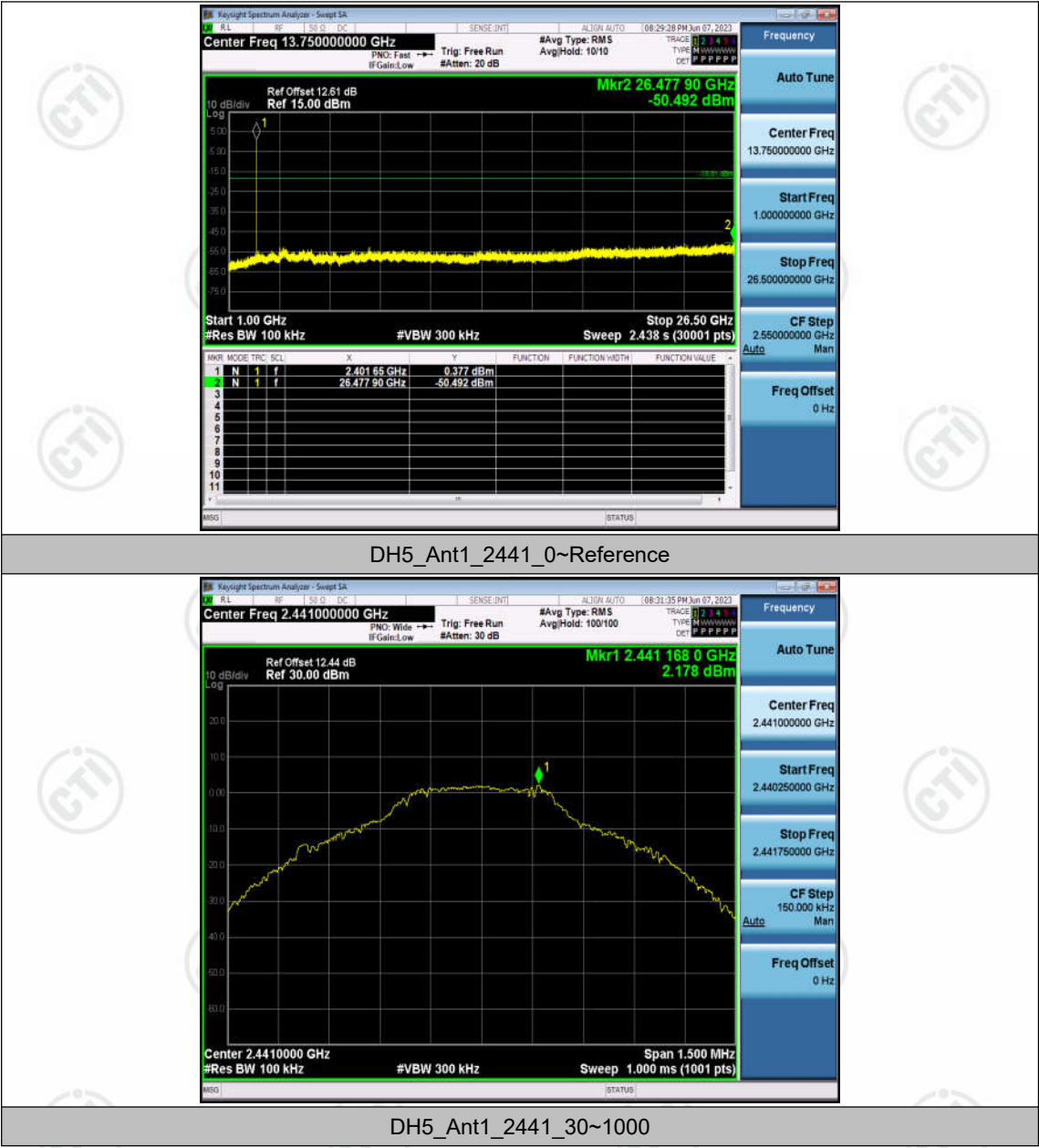
Appendix H: Conducted Spurious Emission

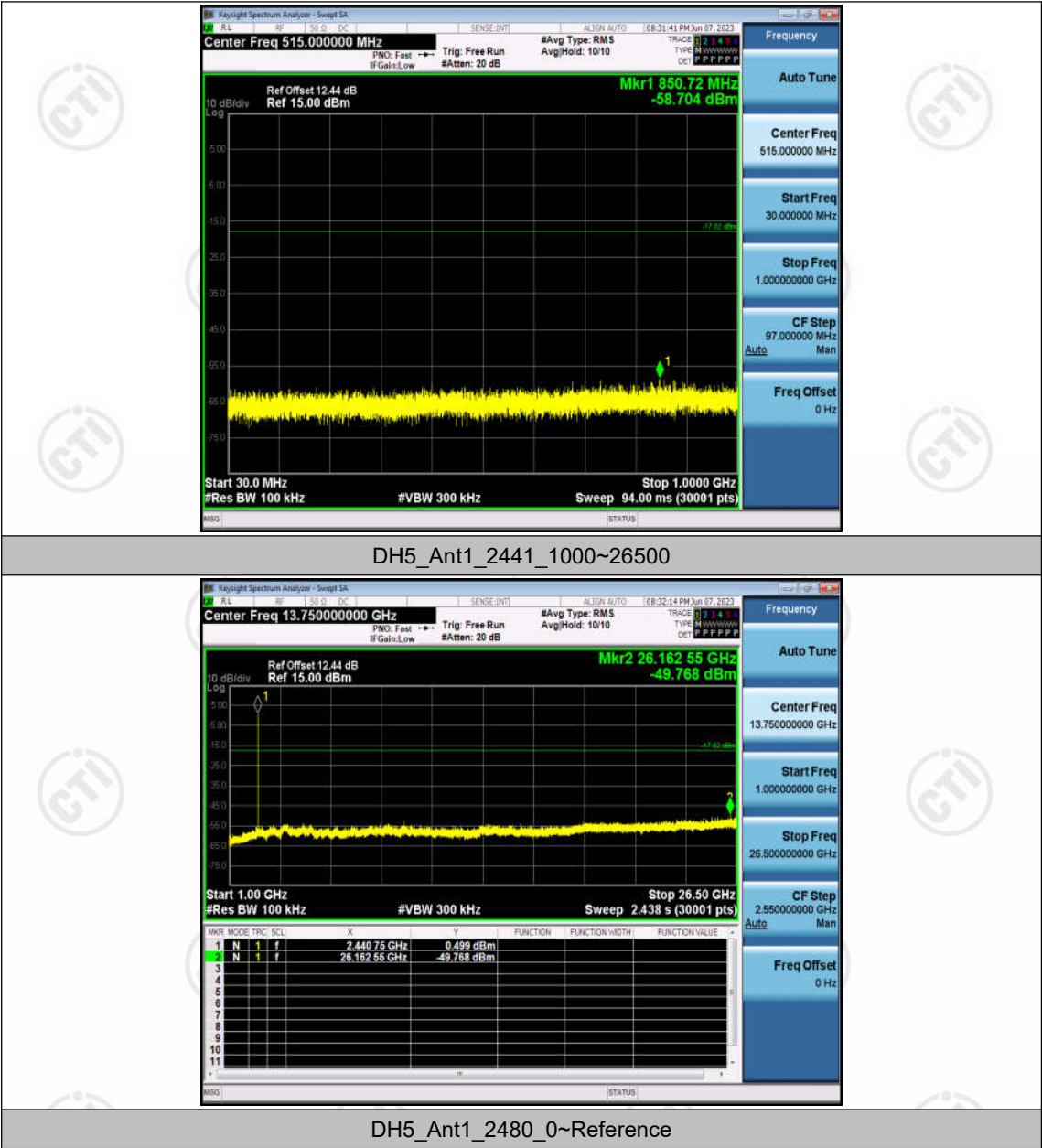
Test Result

Test Mode	Antenna	Frequency[MHz]	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.19	1.19	---	PASS
			30~1000	1.19	-58.5	≤-18.81	PASS
			1000~26500	1.19	-50.49	≤-18.81	PASS
		2441	Reference	2.18	2.18	---	PASS
			30~1000	2.18	-58.7	≤-17.82	PASS
			1000~26500	2.18	-49.77	≤-17.82	PASS
		2480	Reference	1.66	1.66	---	PASS
			30~1000	1.66	-58.56	≤-18.34	PASS
			1000~26500	1.66	-51.06	≤-18.34	PASS
2DH5	Ant1	2402	Reference	0.99	0.99	---	PASS
			30~1000	0.99	-58.94	≤-19.01	PASS
			1000~26500	0.99	-50.8	≤-19.01	PASS
		2441	Reference	1.56	1.56	---	PASS
			30~1000	1.56	-58.97	≤-18.44	PASS
			1000~26500	1.56	-50.61	≤-18.44	PASS
		2480	Reference	1.48	1.48	---	PASS
			30~1000	1.48	-58.65	≤-18.52	PASS
			1000~26500	1.48	-50.62	≤-18.52	PASS
3DH5	Ant1	2402	Reference	0.56	0.56	---	PASS
			30~1000	0.56	-58.25	≤-19.44	PASS
			1000~26500	0.56	-50.9	≤-19.44	PASS
		2441	Reference	1.70	1.70	---	PASS
			30~1000	1.70	-58.9	≤-18.3	PASS
			1000~26500	1.70	-50.74	≤-18.3	PASS
		2480	Reference	1.39	1.39	---	PASS
			30~1000	1.39	-59.09	≤-18.61	PASS
			1000~26500	1.39	-50.3	≤-18.61	PASS

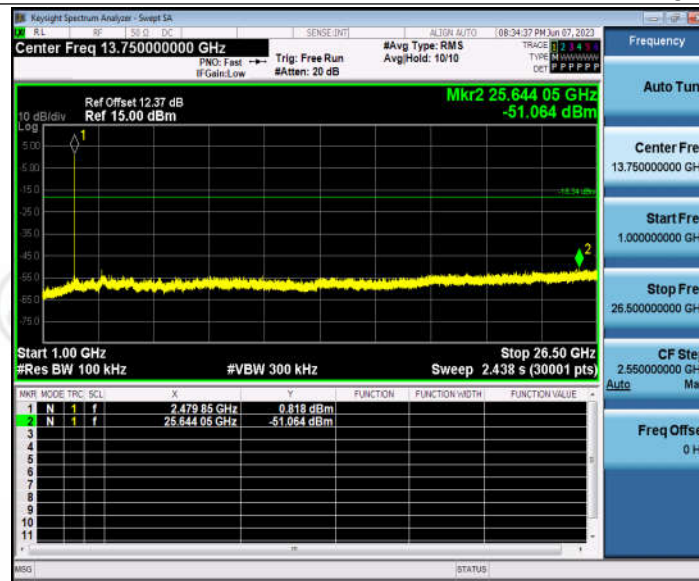
Test Graphs







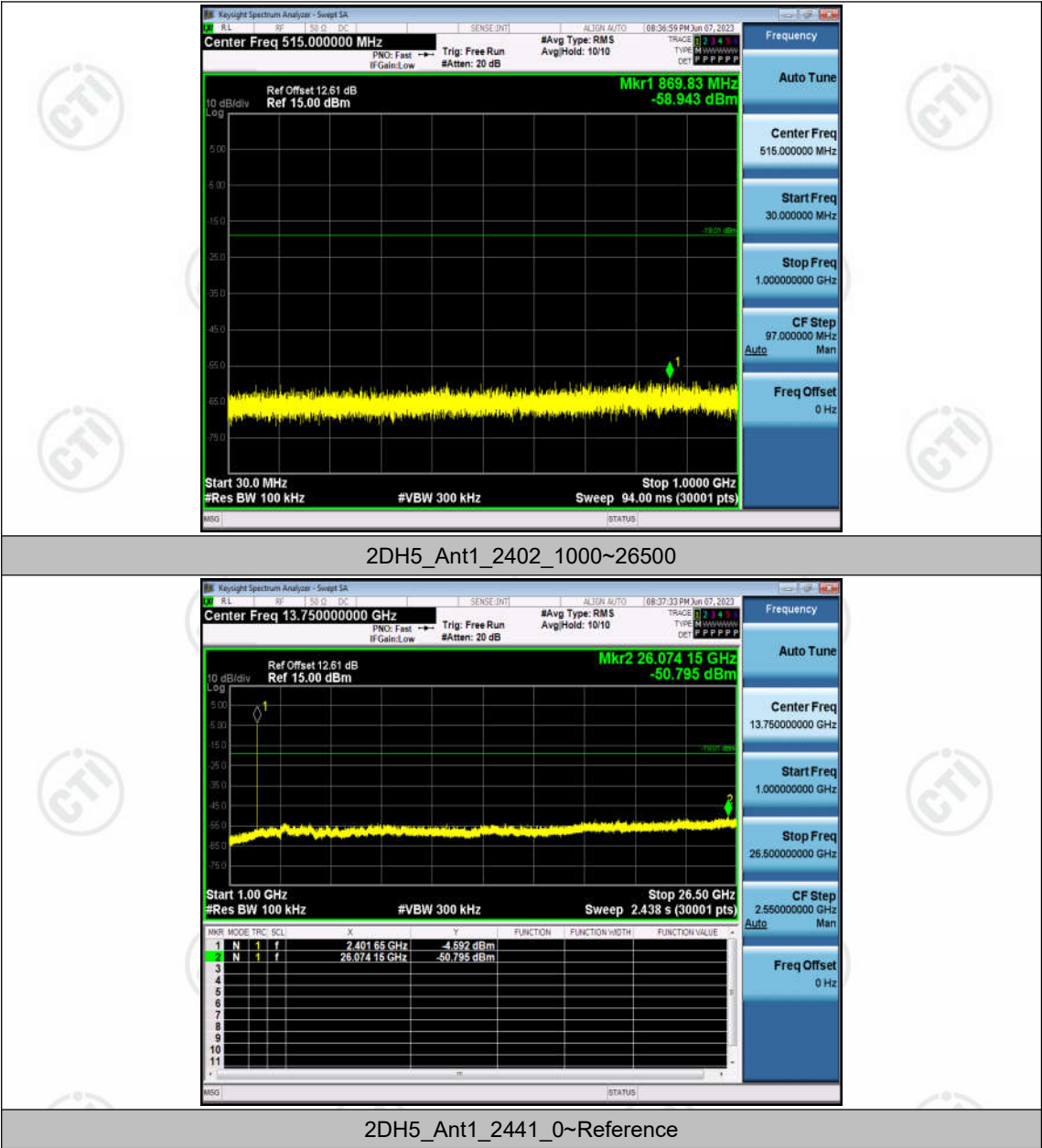




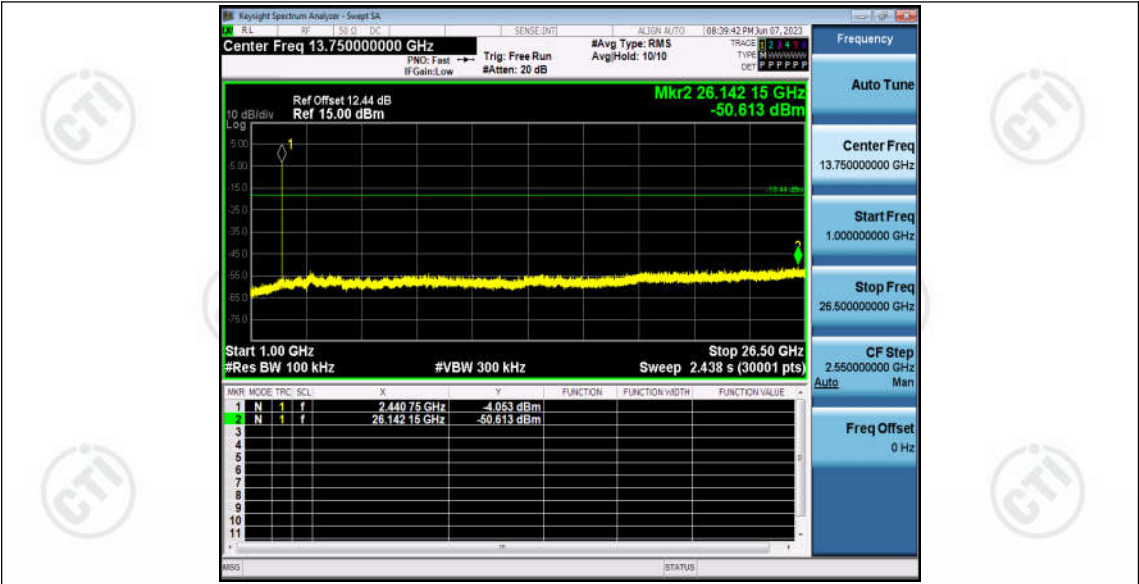
2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



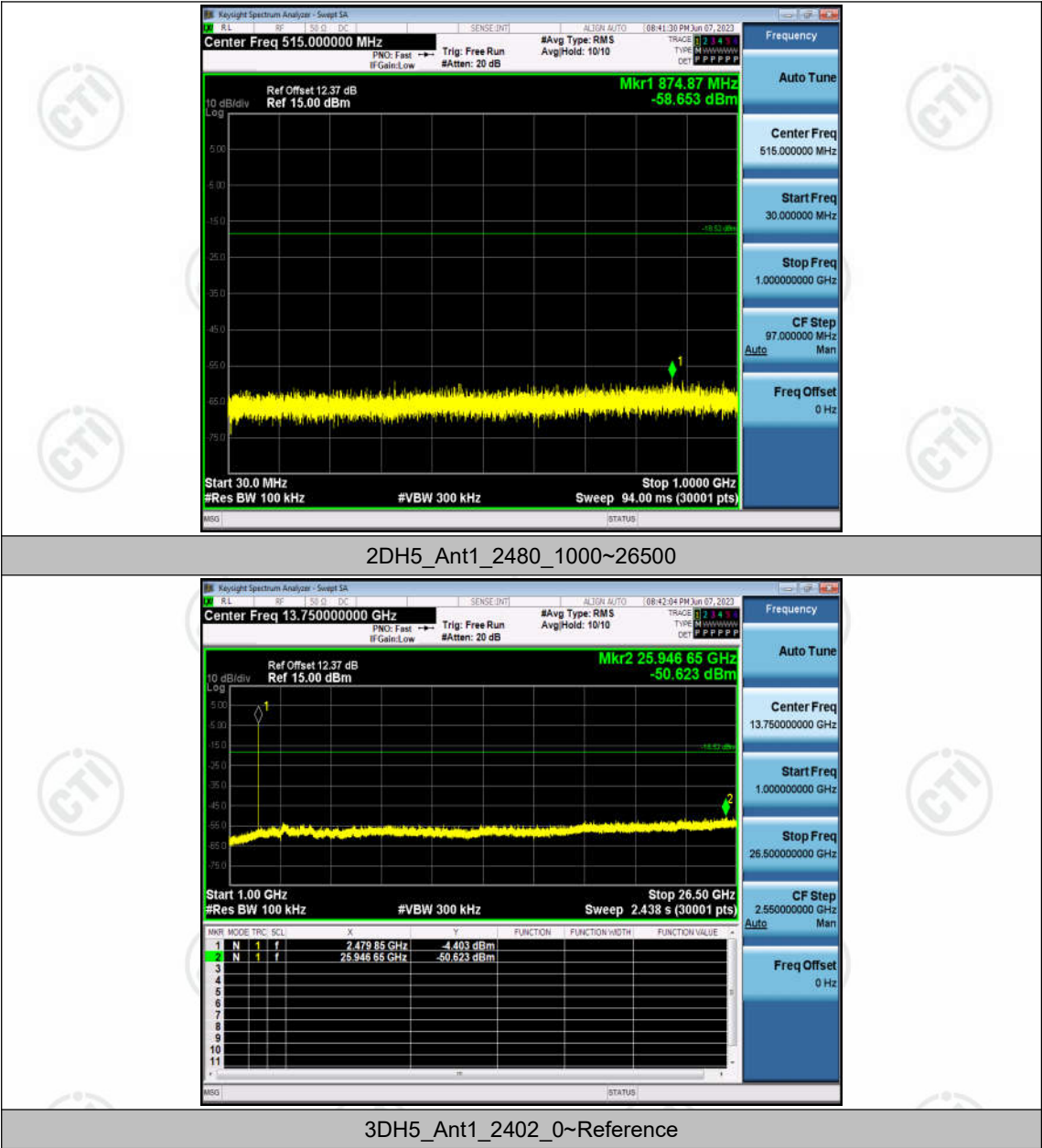


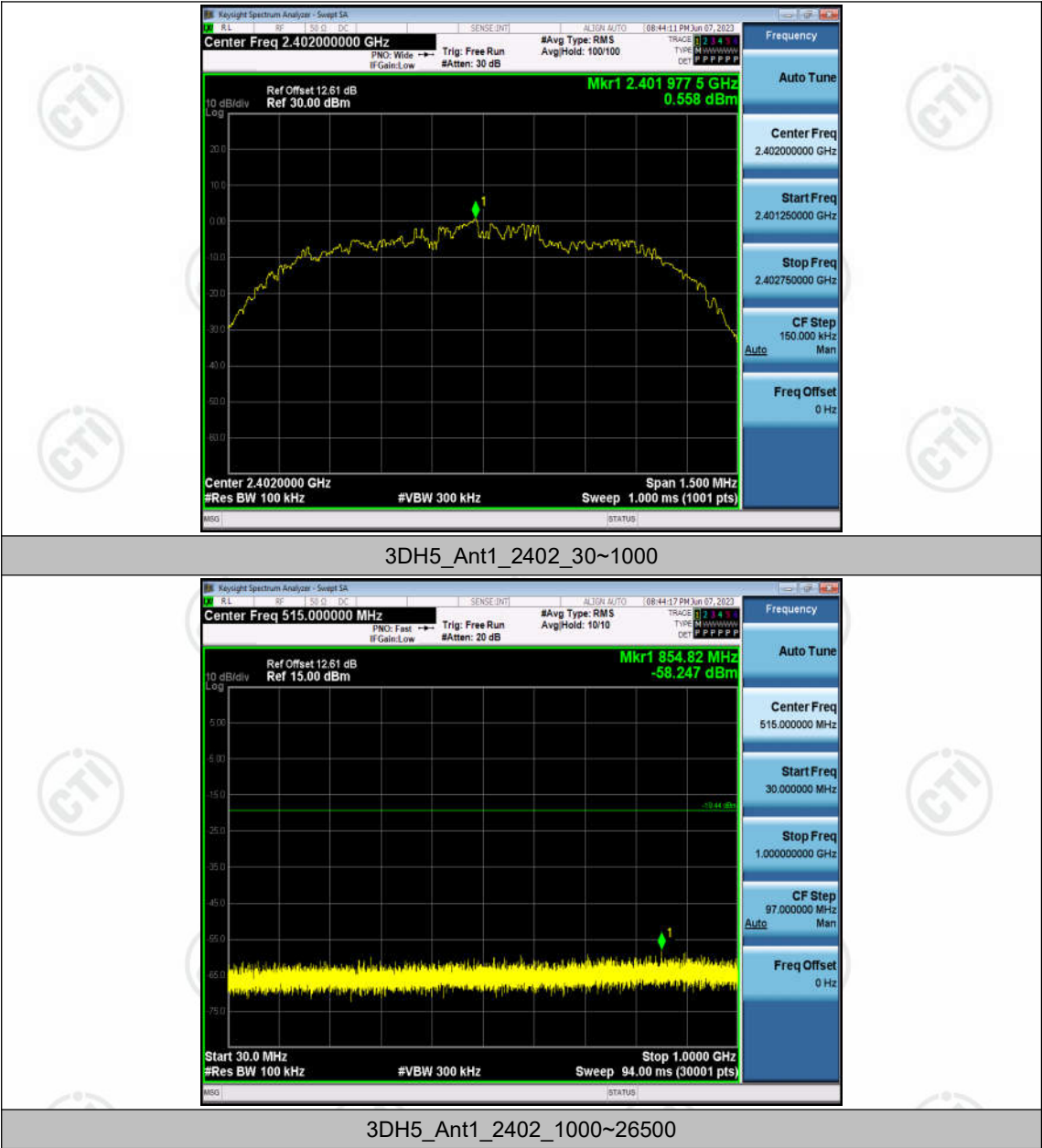


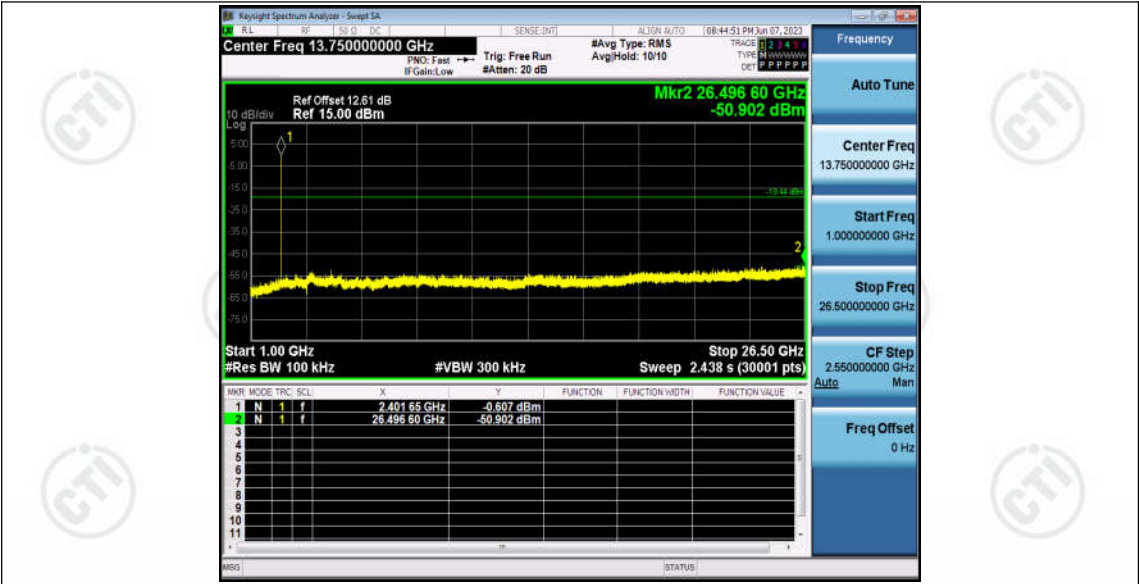
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



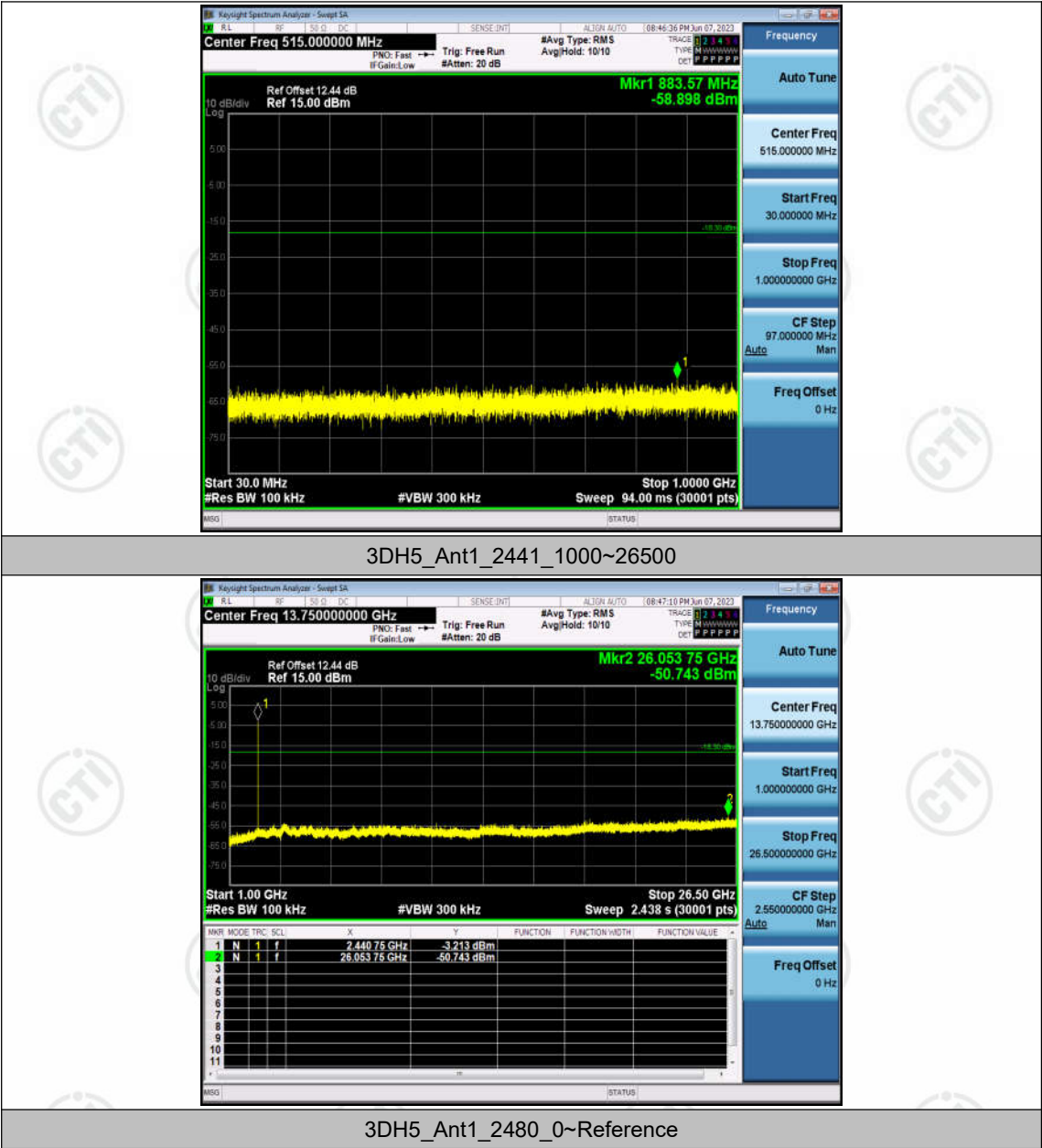


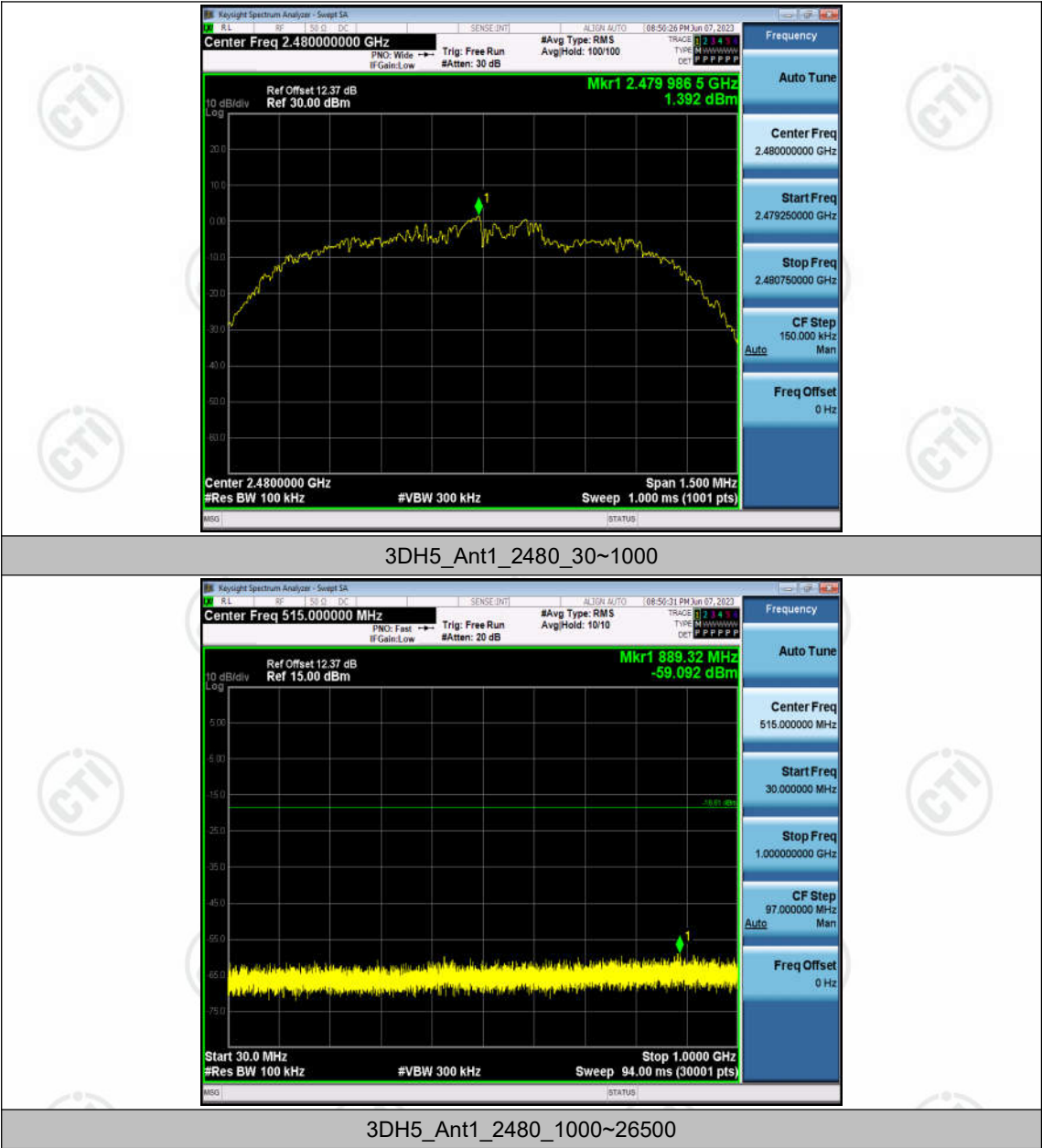


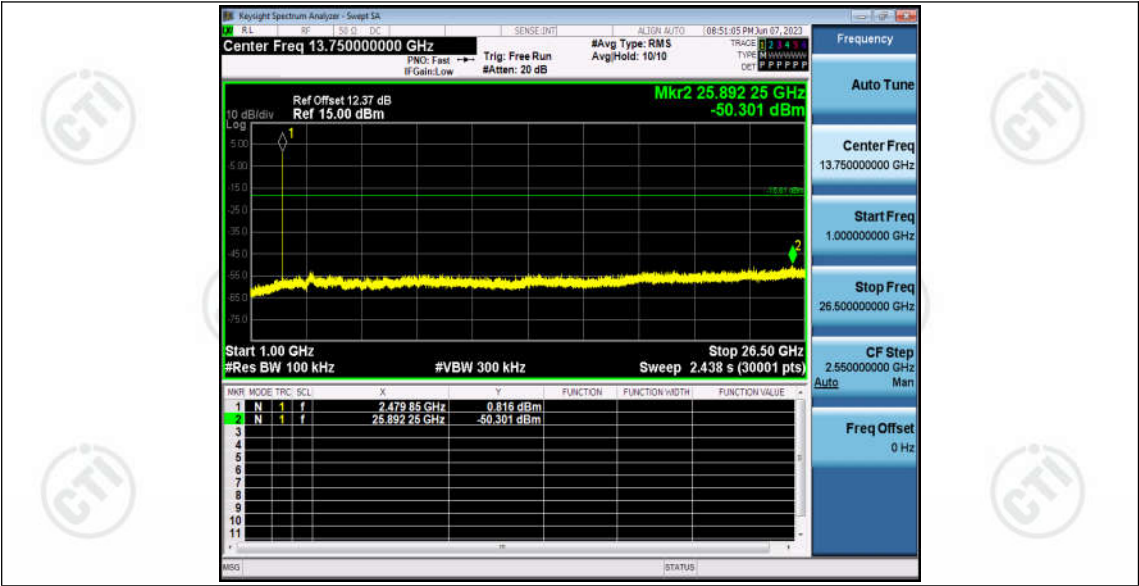
3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000





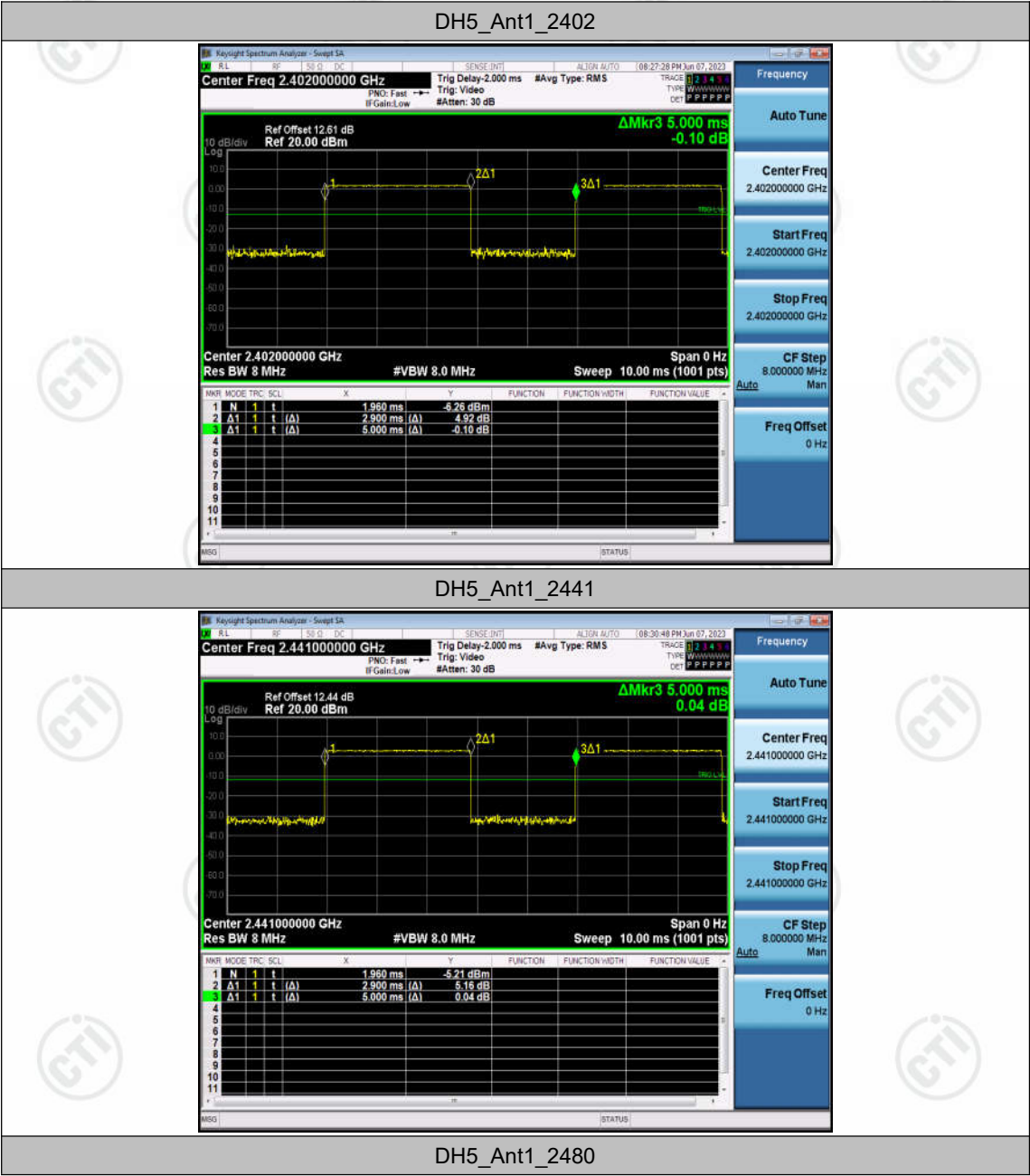


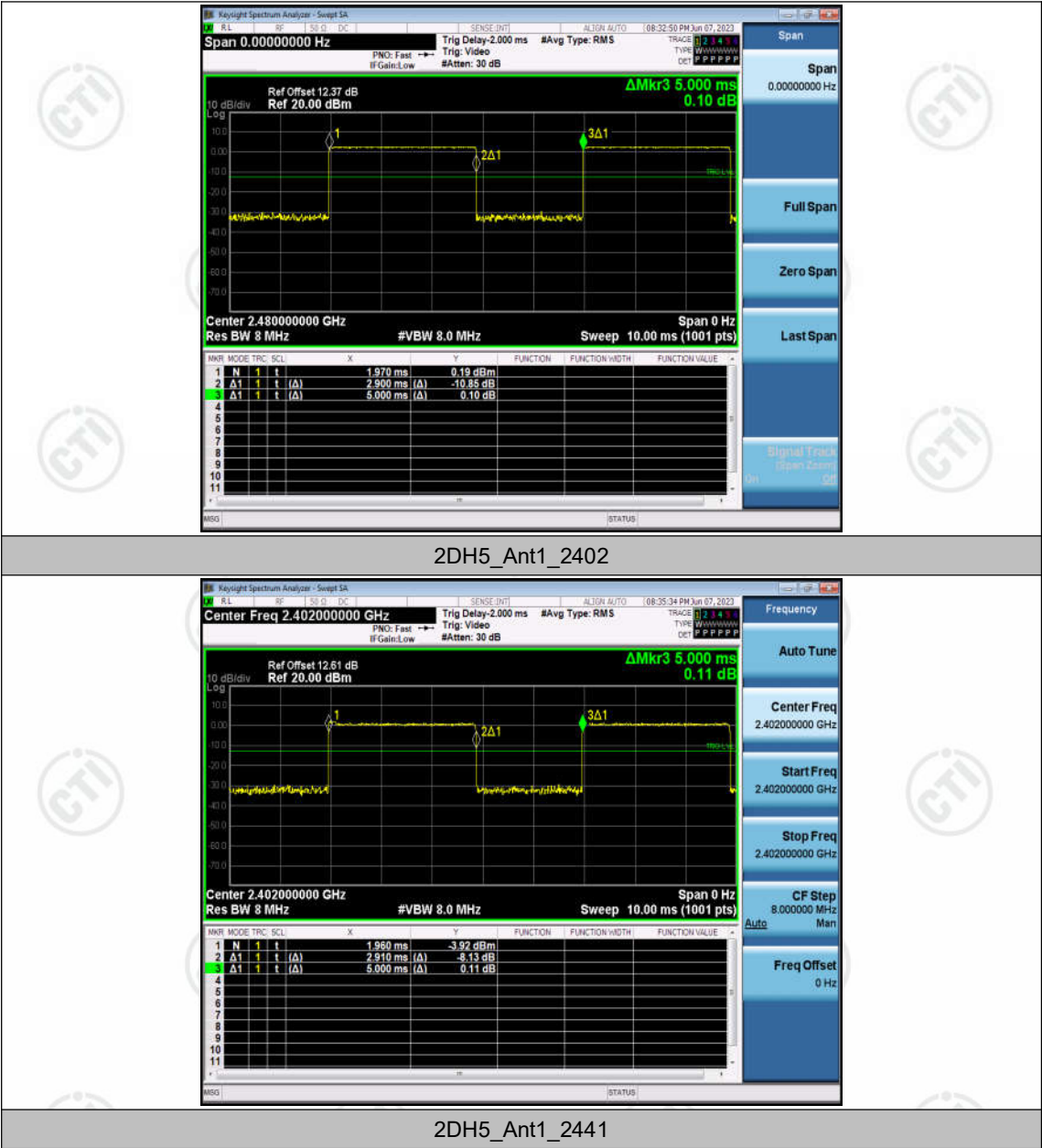
Appendix I: Duty Cycle

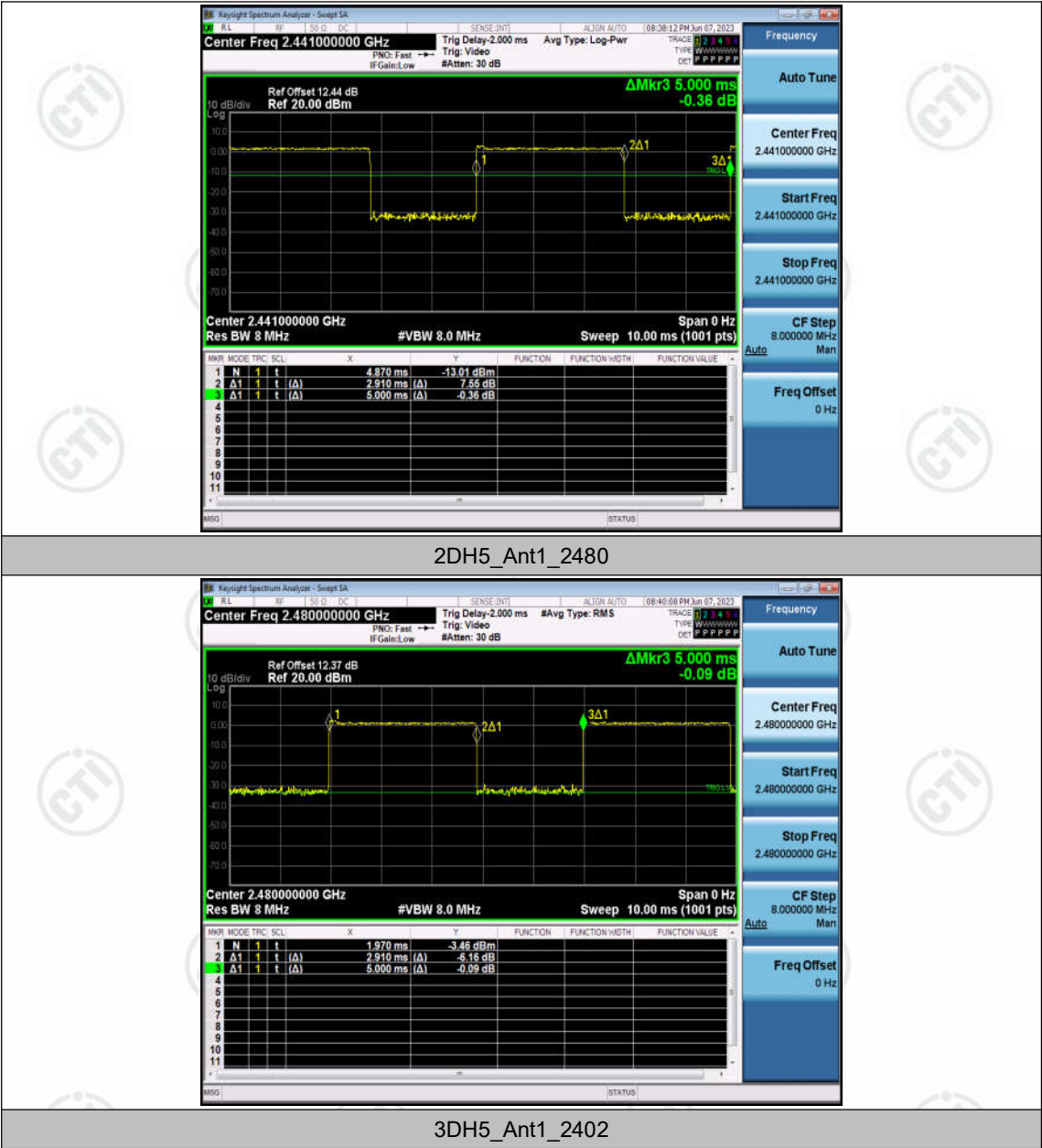
Test Result

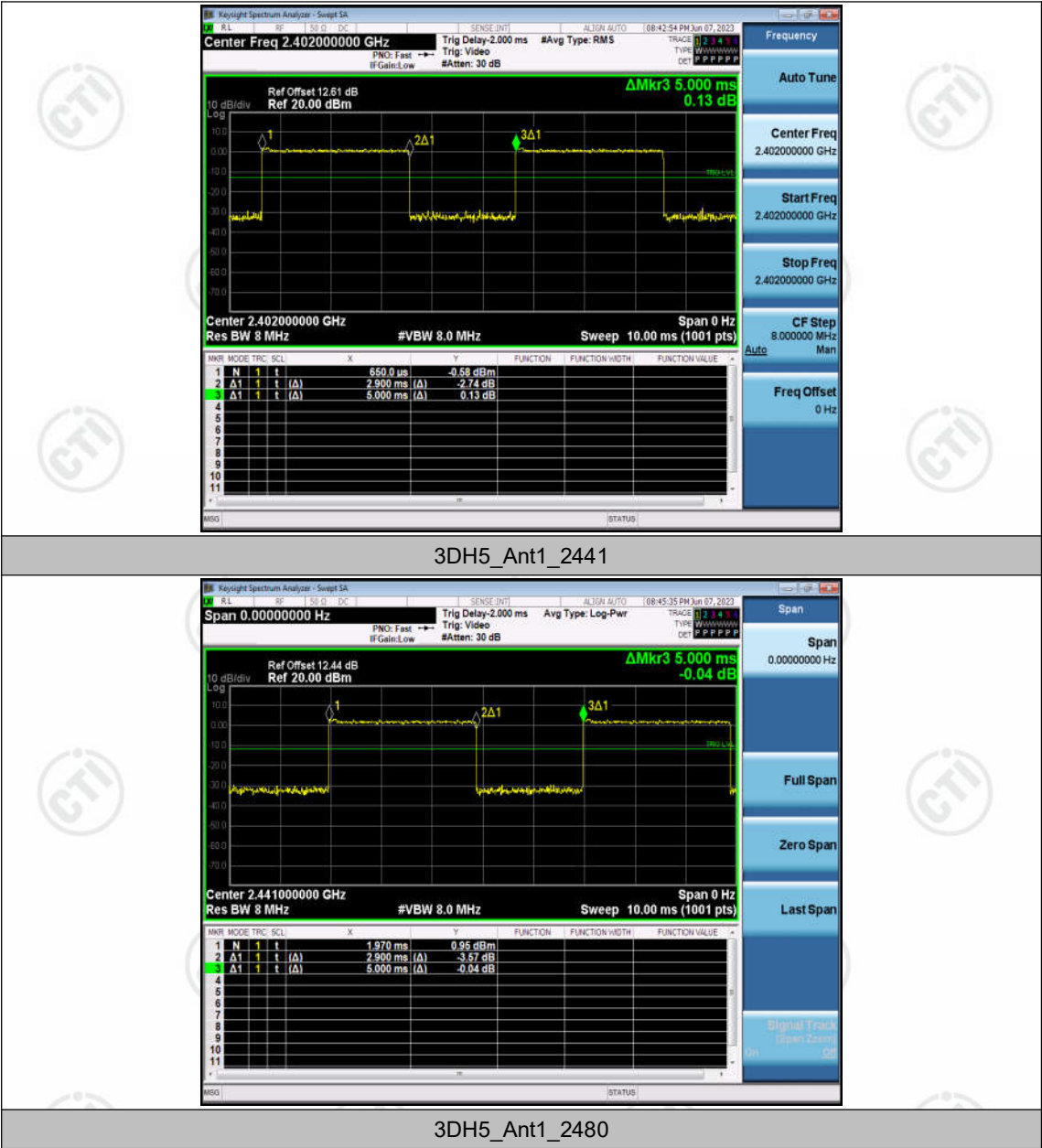
Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.90	5.00	58.00	2.37
		2441	2.90	5.00	58.00	2.37
		2480	2.90	5.00	58.00	2.37
2DH5	Ant1	2402	2.91	5.00	58.20	2.35
		2441	2.91	5.00	58.20	2.35
		2480	2.91	5.00	58.20	2.35
3DH5	Ant1	2402	2.90	5.00	58.00	2.37
		2441	2.90	5.00	58.00	2.37
		2480	2.90	5.00	58.00	2.37

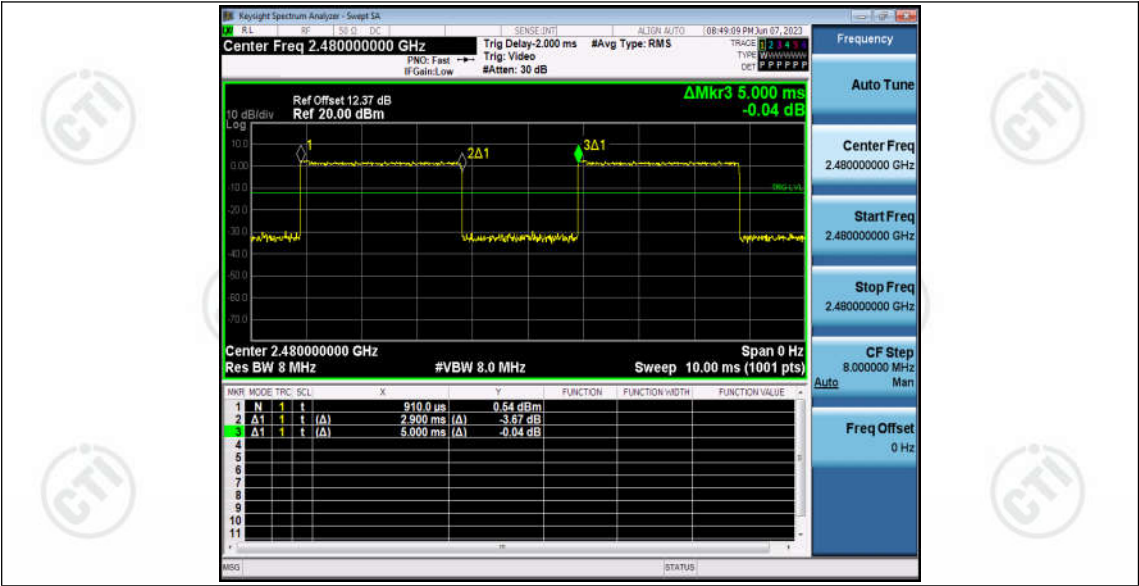
Test Graphs











*** End of Report ***