

Appendix: Bluetooth Classic

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AppendixA: 20dBEmission Bandwidth

Test Result

Test Mode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.945	2401.574	2402.519	---	PASS
		2441	0.945	2440.574	2441.519	---	PASS
		2480	0.945	2479.574	2480.519	---	PASS
2DH5	Ant1	2402	1.308	2401.379	2402.687	---	PASS
		2441	1.308	2440.382	2441.690	---	PASS
		2480	1.308	2479.382	2480.690	---	PASS
3DH5	Ant1	2402	1.266	2401.391	2402.657	---	PASS
		2441	1.266	2440.391	2441.657	---	PASS
		2480	1.272	2479.388	2480.660	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441





2DH5_Ant1_2402

Frequency

Auto Tune

Center Freq
2.402000000 GHz

Start Freq
2.400500000 GHz

Stop Freq
2.403500000 GHz

CF Step
300.000 kHz

Man

Freq Offset
0 Hz



3DH5_Ant1_2402



3DH5_Ant1_2441



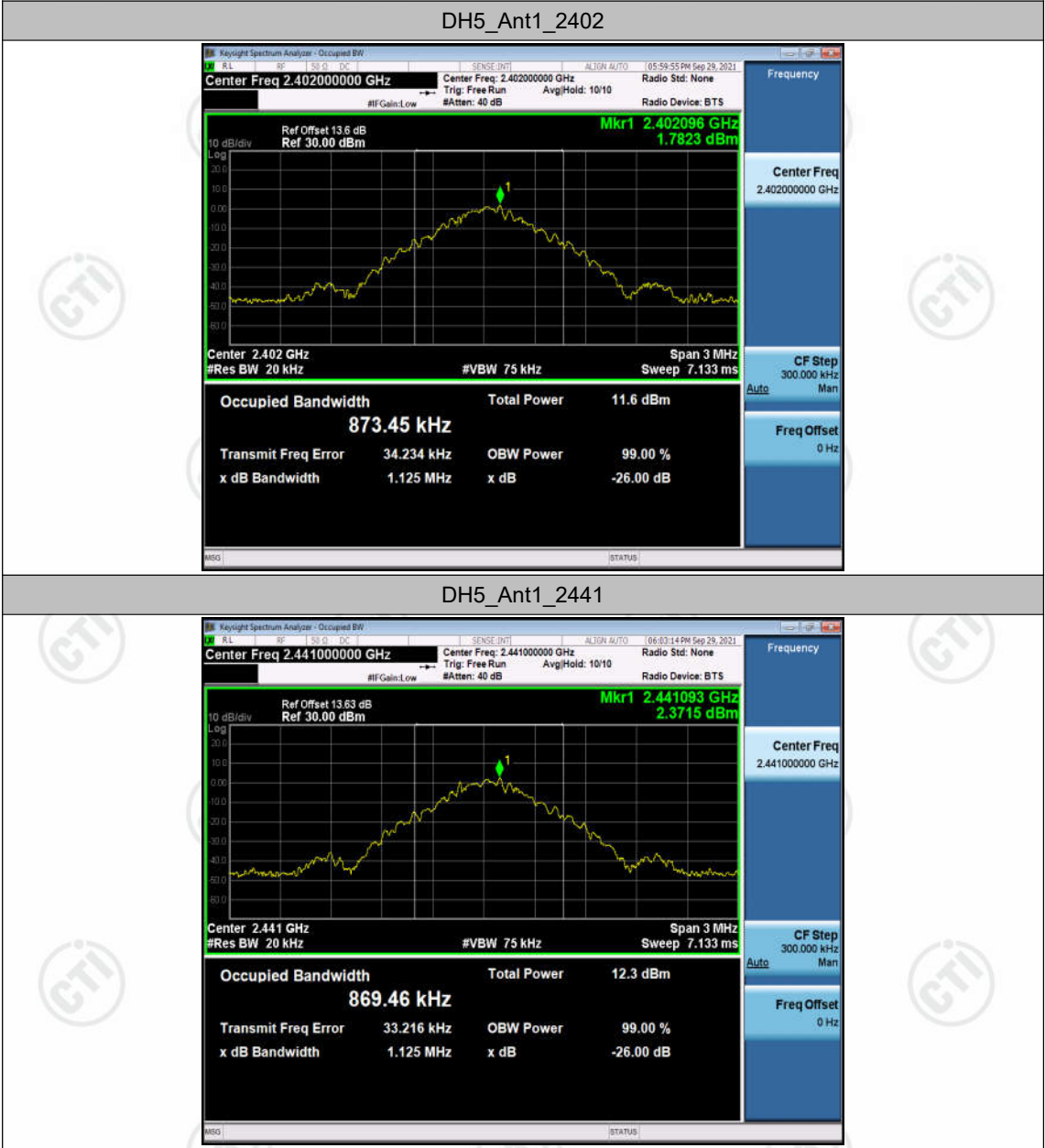


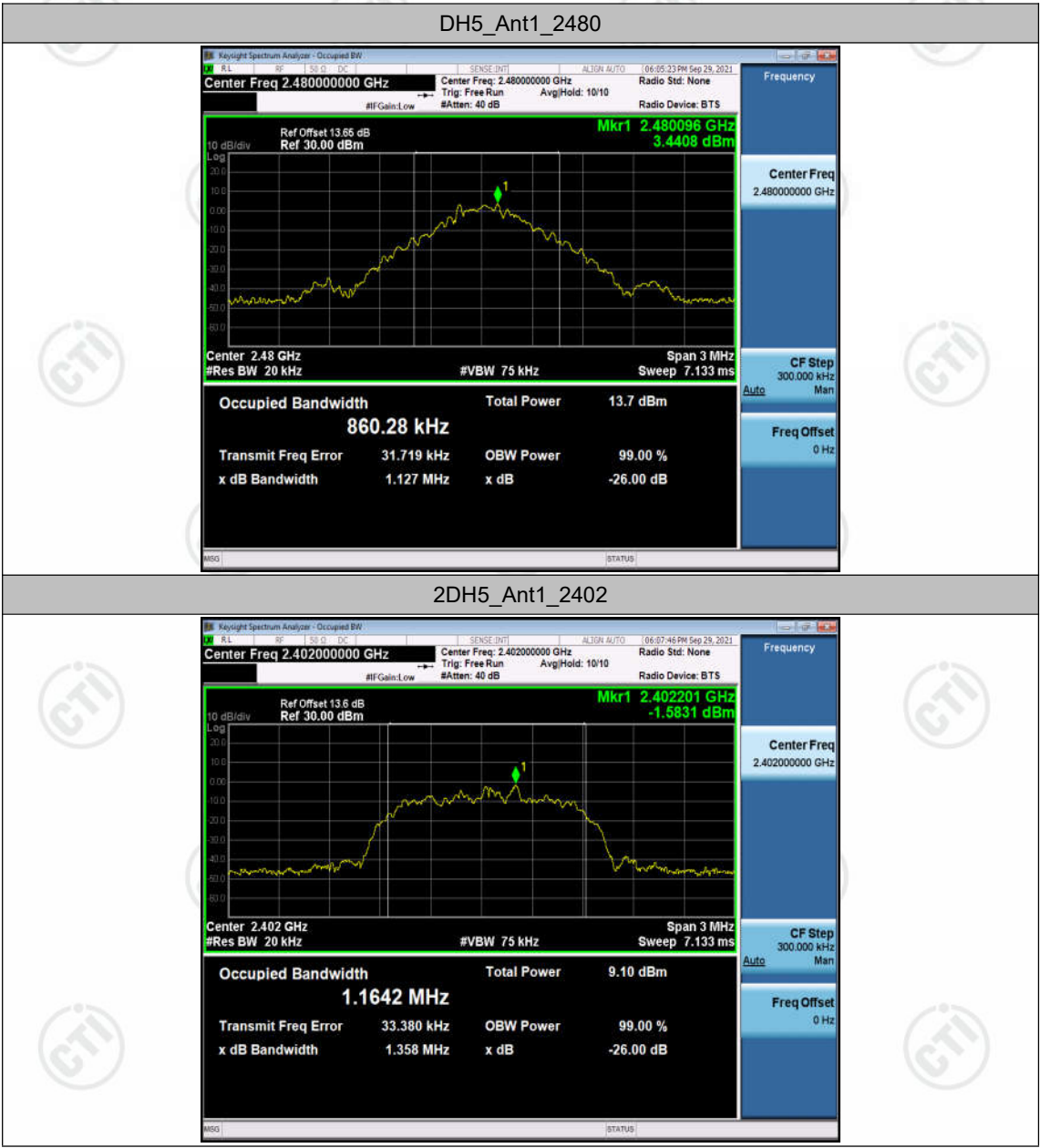
AppendixB: Occupied Channel Bandwidth

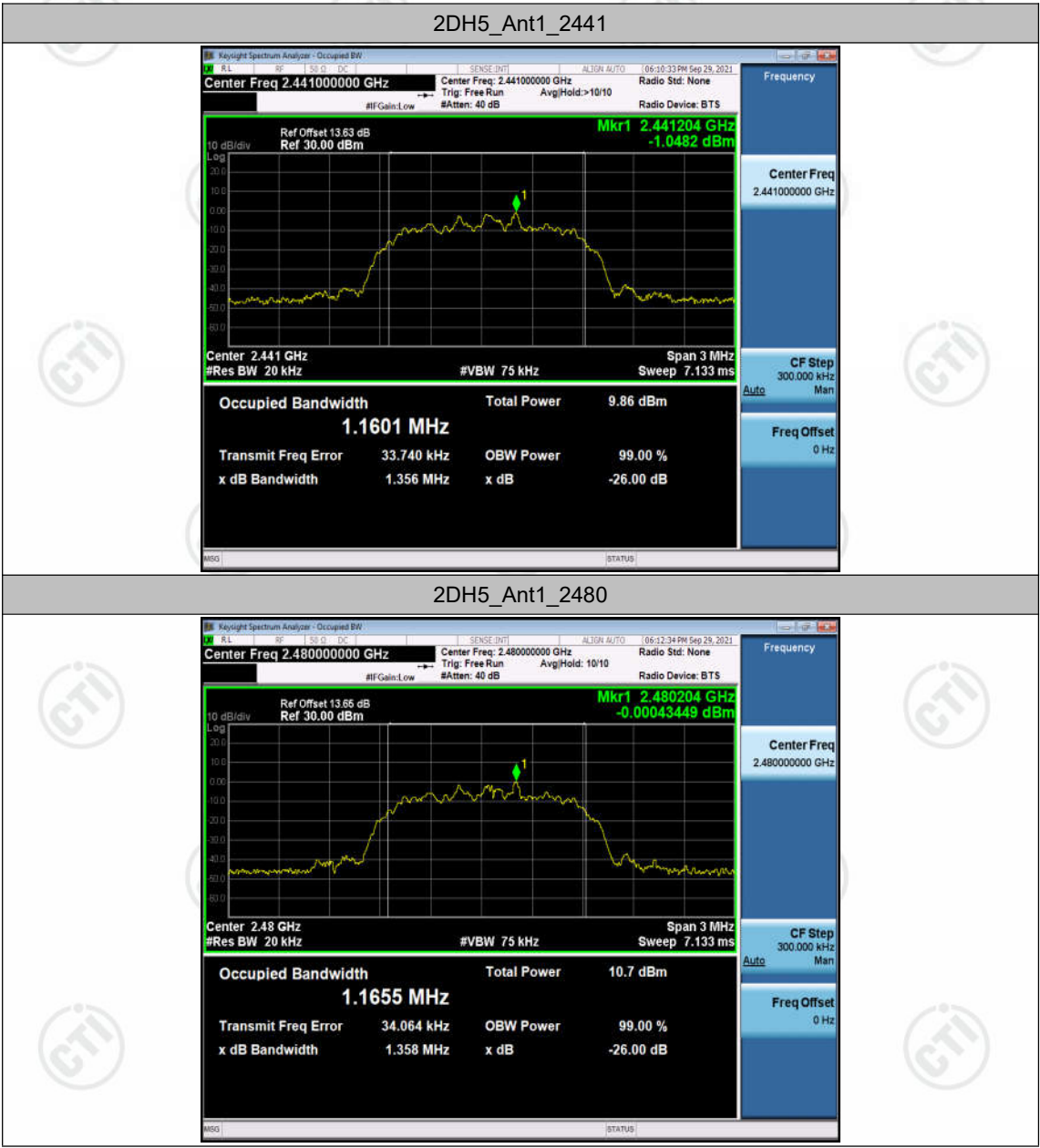
Test Result

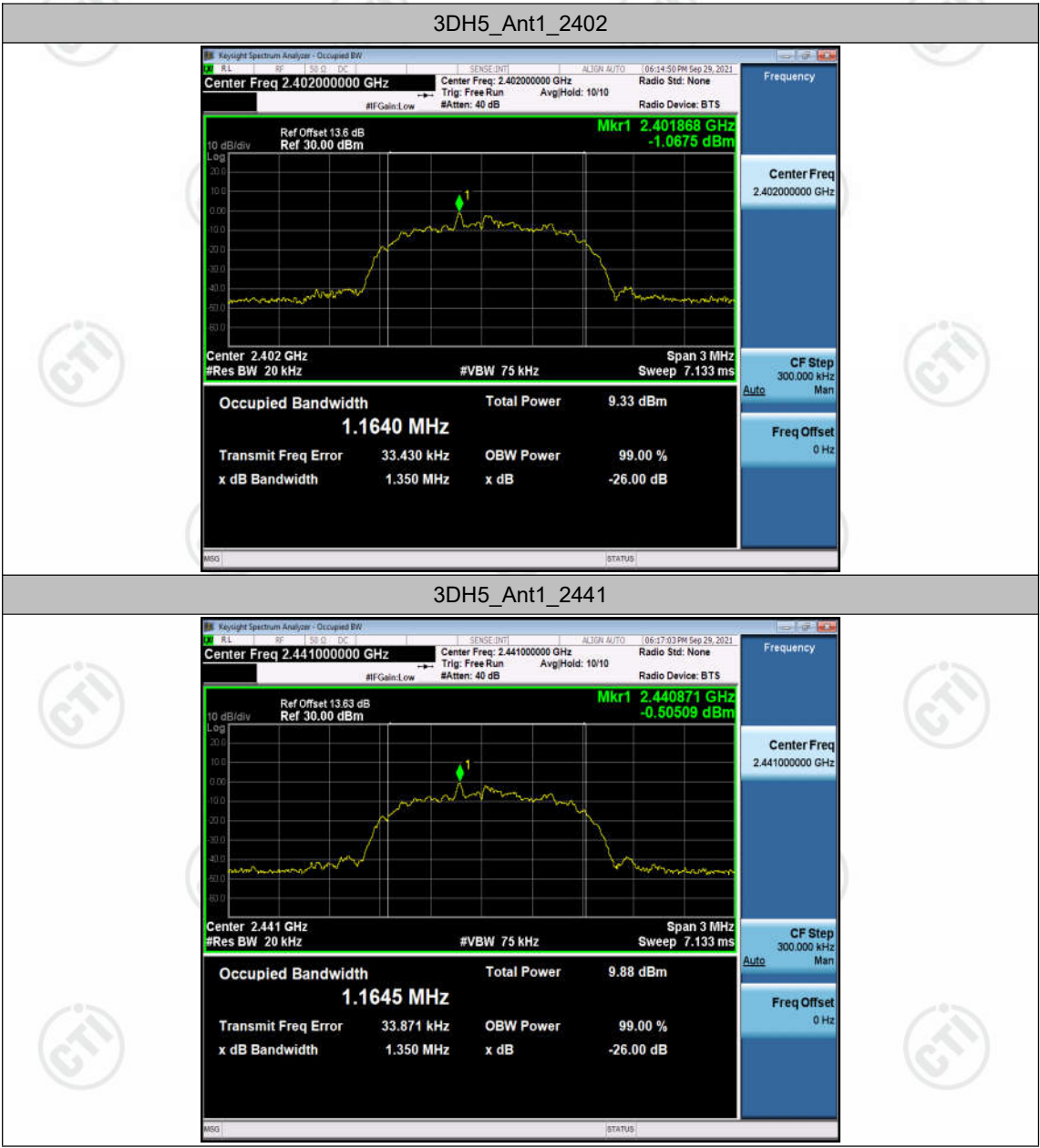
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87345	2401.598	2402.471	---	PASS
		2441	0.86946	2440.598	2441.468	---	PASS
		2480	0.86028	2479.602	2480.462	---	PASS
2DH5	Ant1	2402	1.1642	2401.451	2402.615	---	PASS
		2441	1.1601	2440.454	2441.614	---	PASS
		2480	1.1655	2479.451	2480.617	---	PASS
3DH5	Ant1	2402	1.1640	2401.451	2402.615	---	PASS
		2441	1.1645	2440.452	2441.616	---	PASS
		2480	1.1644	2479.451	2480.616	---	PASS

Test Graphs









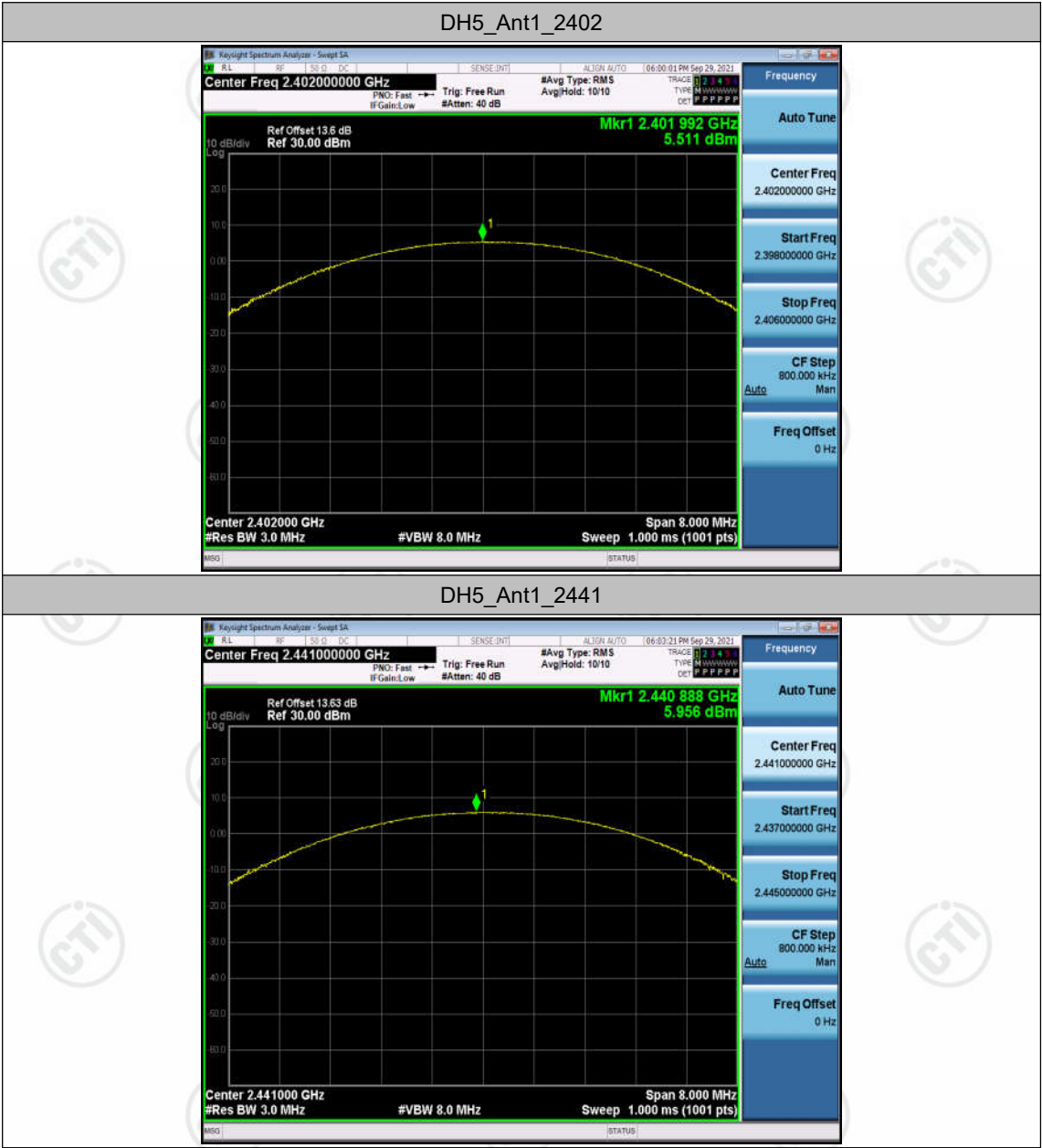


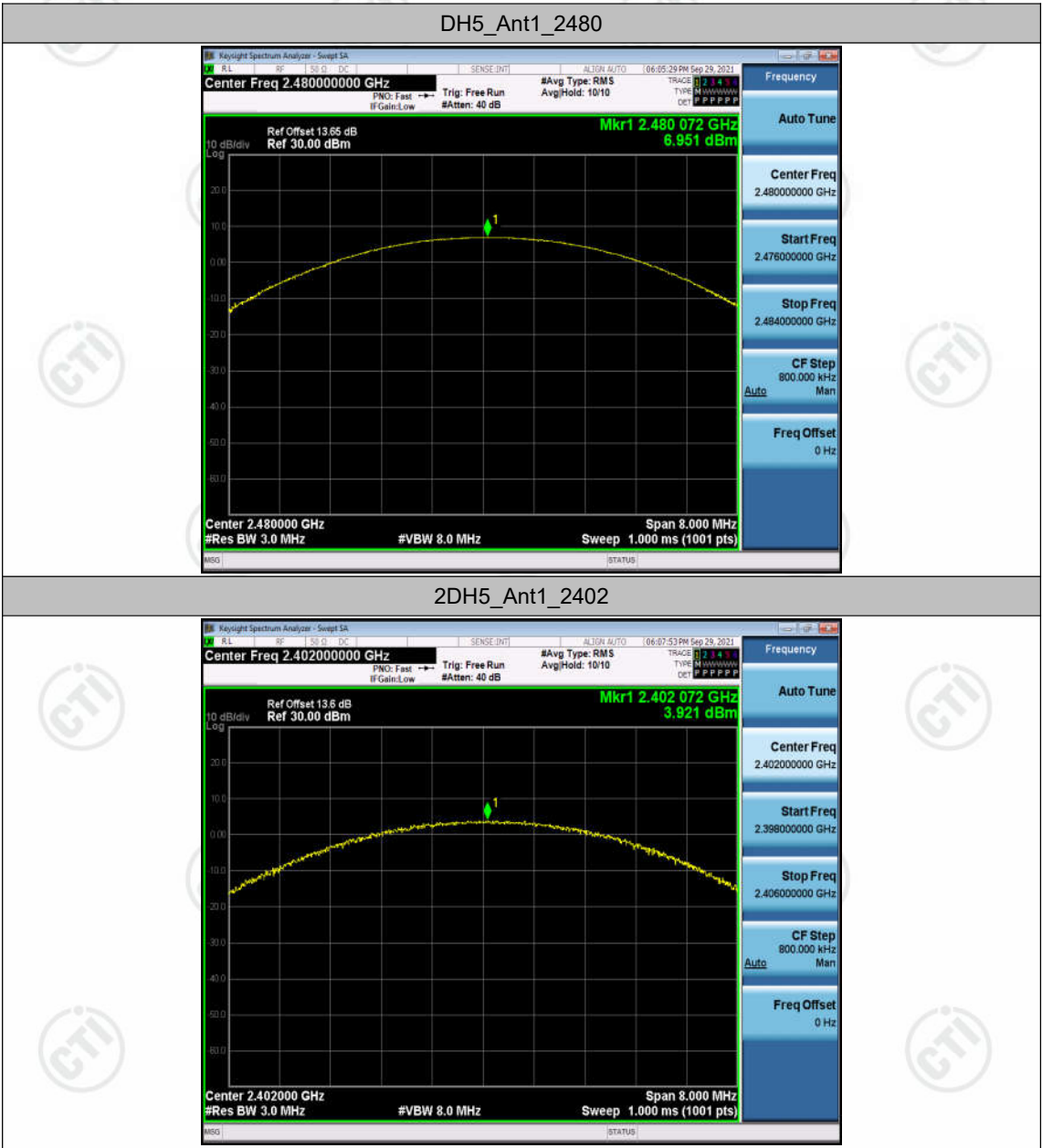
AppendixC: Maximum conducted output power

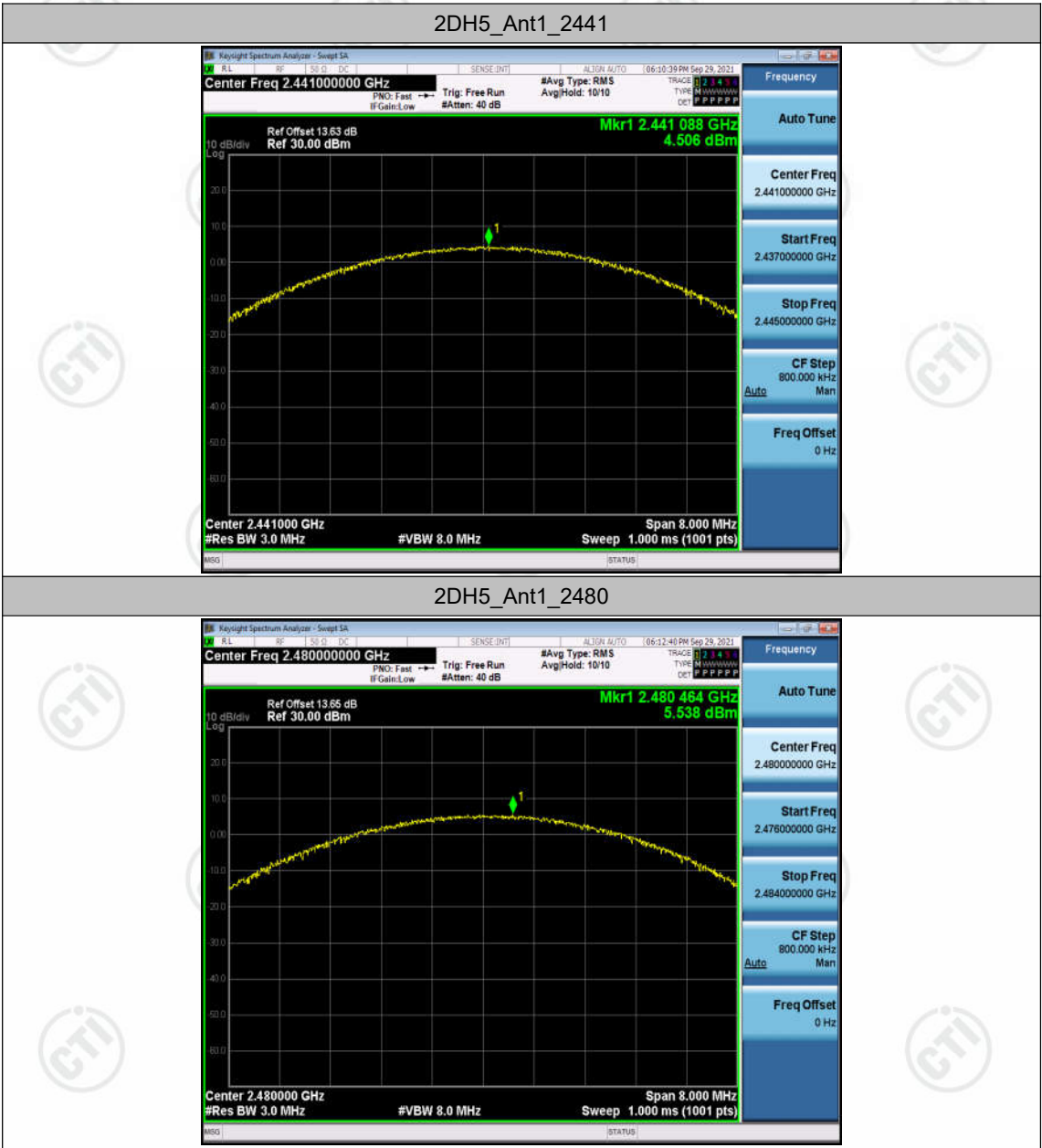
Test Result

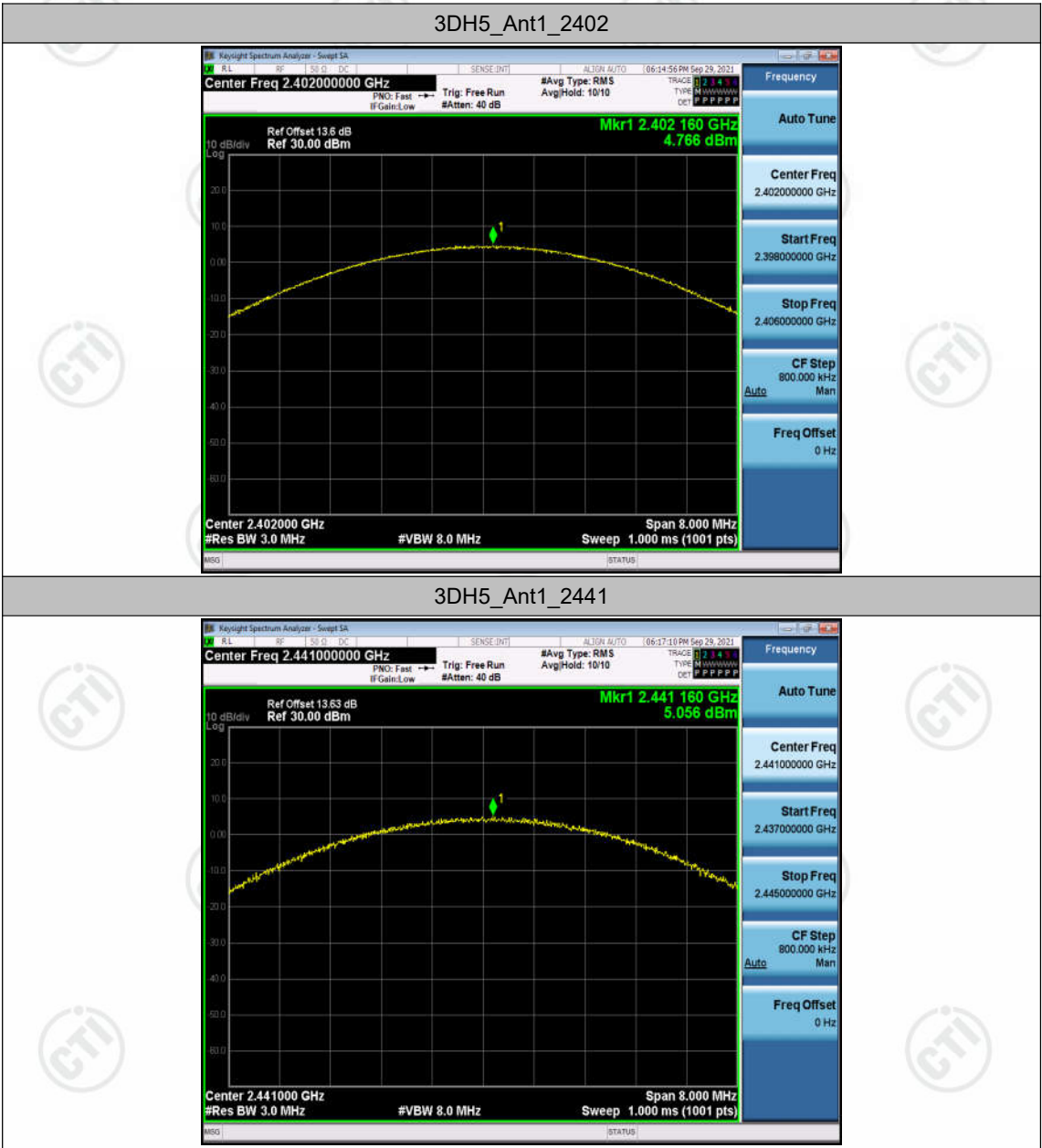
Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	5.51	<=20.97	PASS
		2441	5.96	<=20.97	PASS
		2480	6.95	<=20.97	PASS
2DH5	Ant1	2402	3.92	<=20.97	PASS
		2441	4.51	<=20.97	PASS
		2480	5.54	<=20.97	PASS
3DH5	Ant1	2402	4.77	<=20.97	PASS
		2441	5.06	<=20.97	PASS
		2480	6.02	<=20.97	PASS

Test Graphs









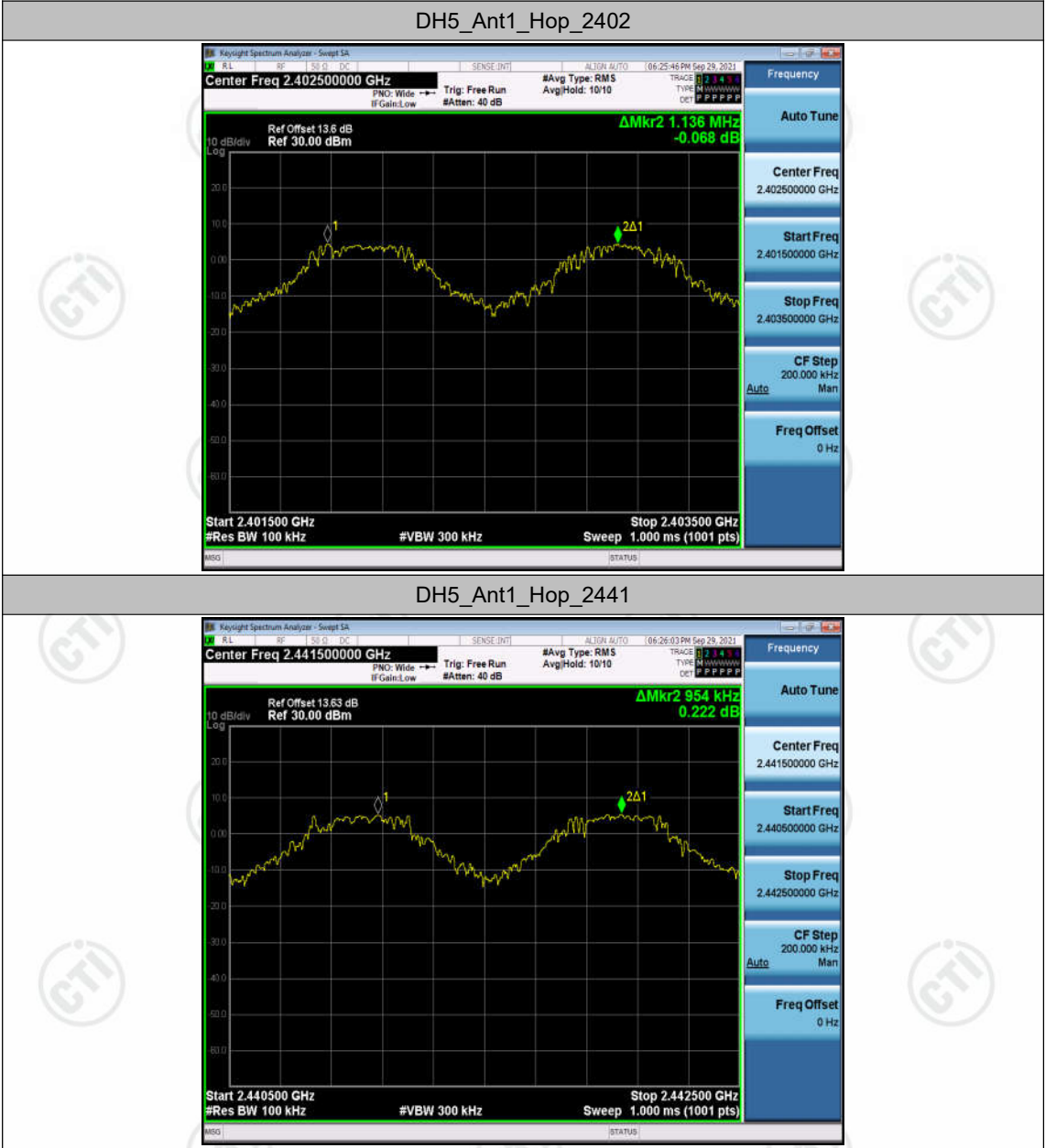


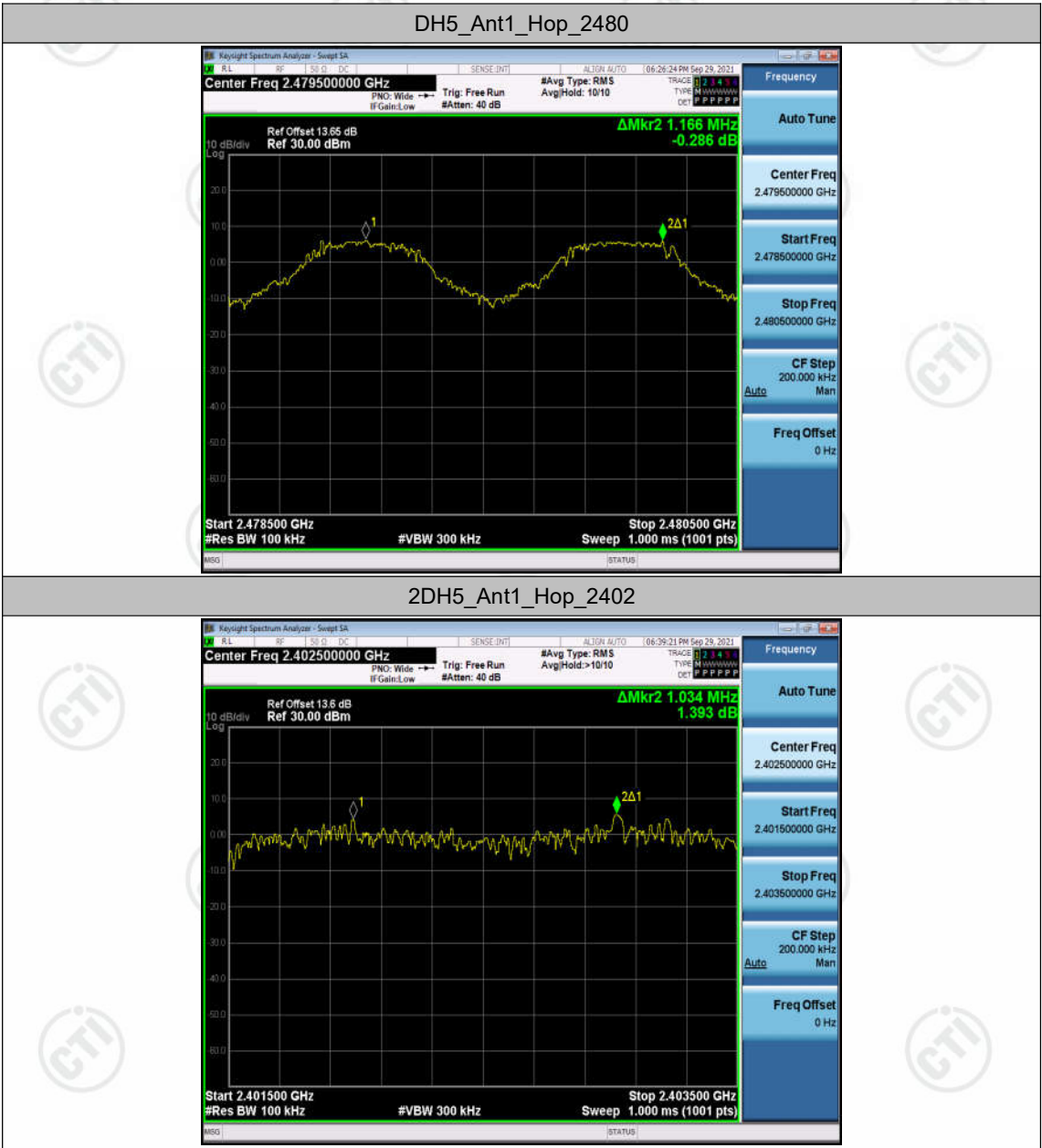
AppendixD: Carrier frequency separation

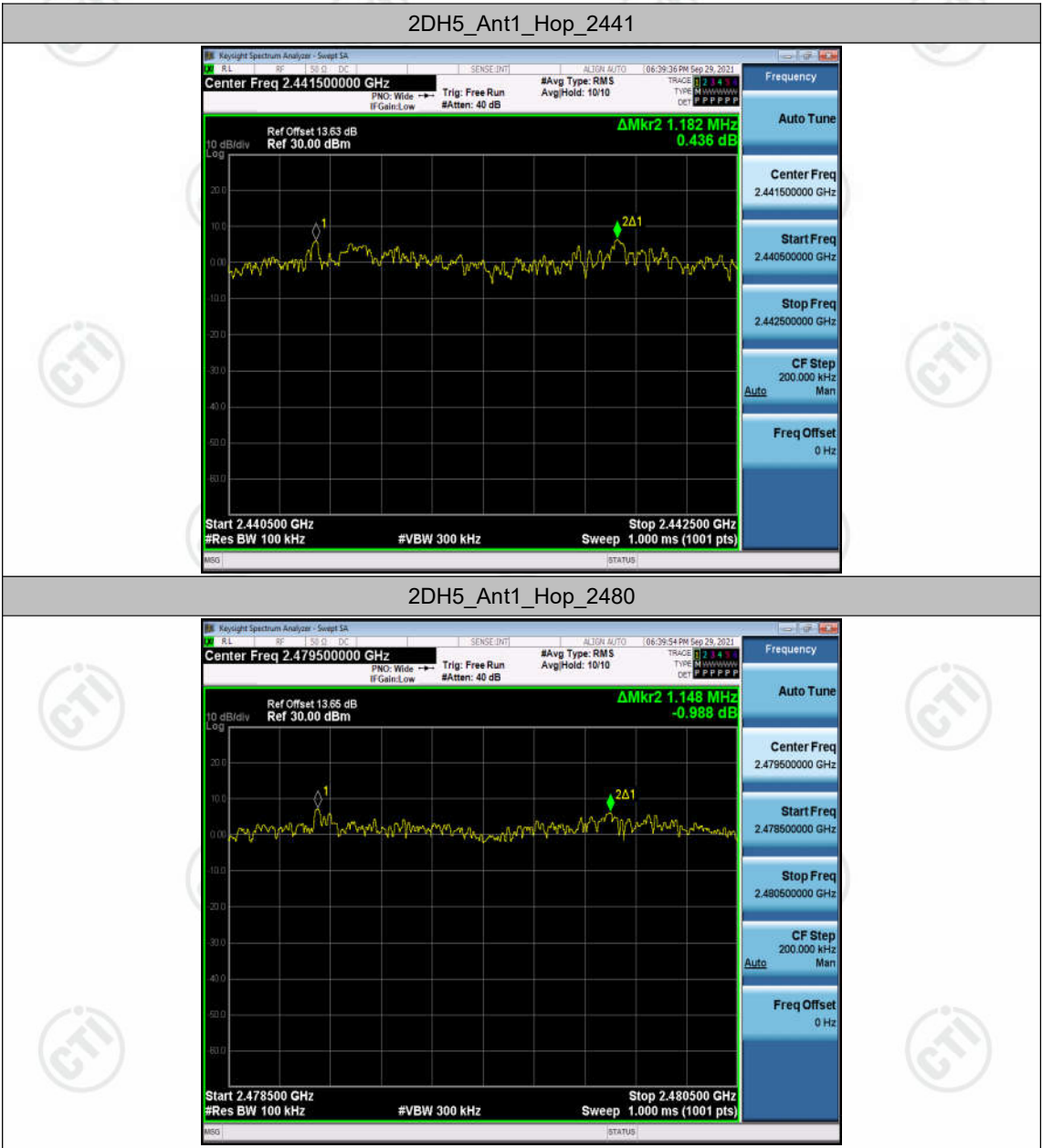
Test Result

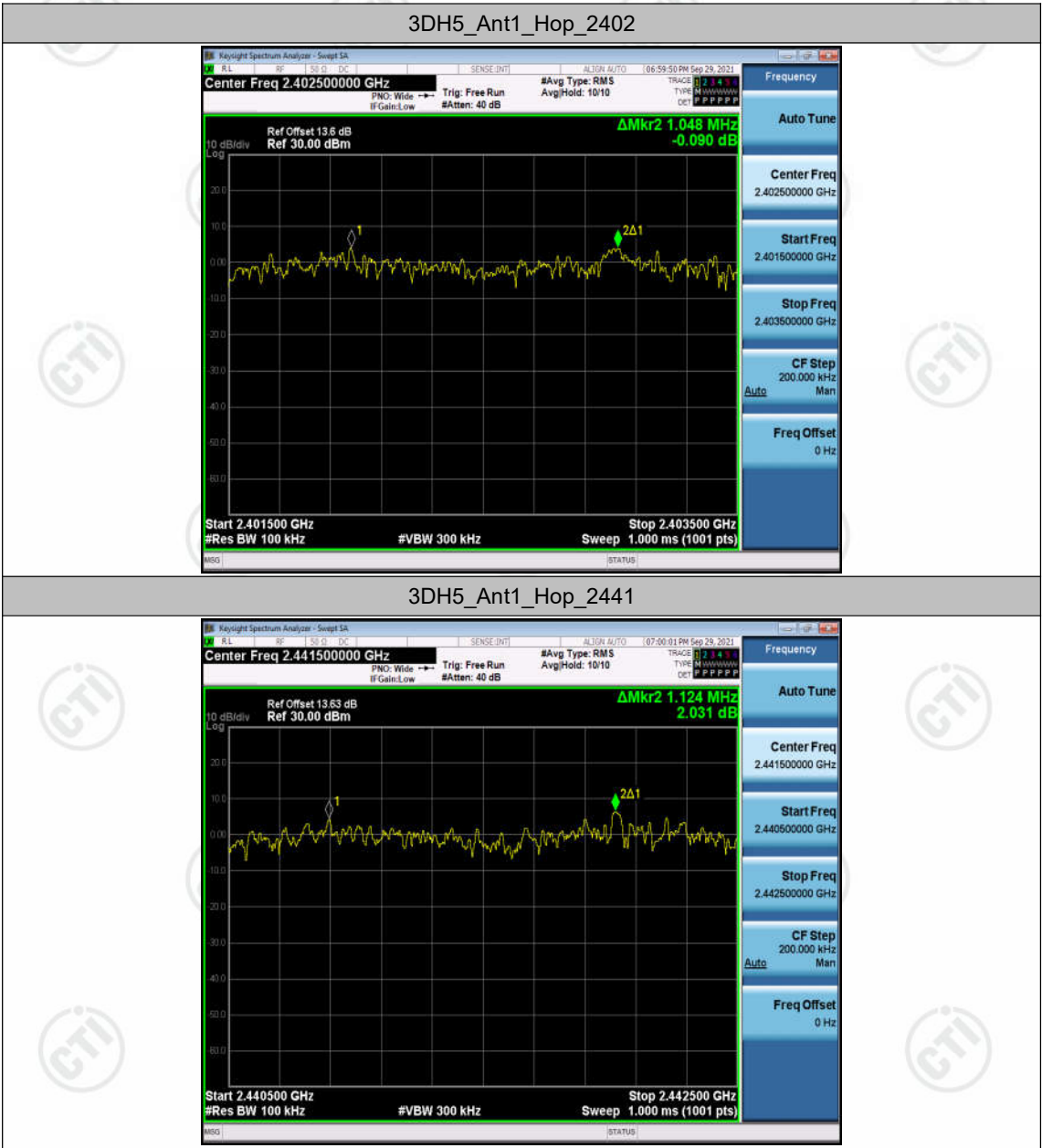
Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop_2402	1.136	>=0.945	PASS
		Hop_2441	0.954	>=0.945	PASS
		Hop_2480	1.166	>=0.945	PASS
2DH5	Ant1	Hop_2402	1.034	>=0.872	PASS
		Hop_2441	1.182	>=0.872	PASS
		Hop_2480	1.148	>=0.872	PASS
3DH5	Ant1	Hop_2402	1.048	>=0.848	PASS
		Hop_2441	1.124	>=0.848	PASS
		Hop_2480	1.028	>=0.848	PASS

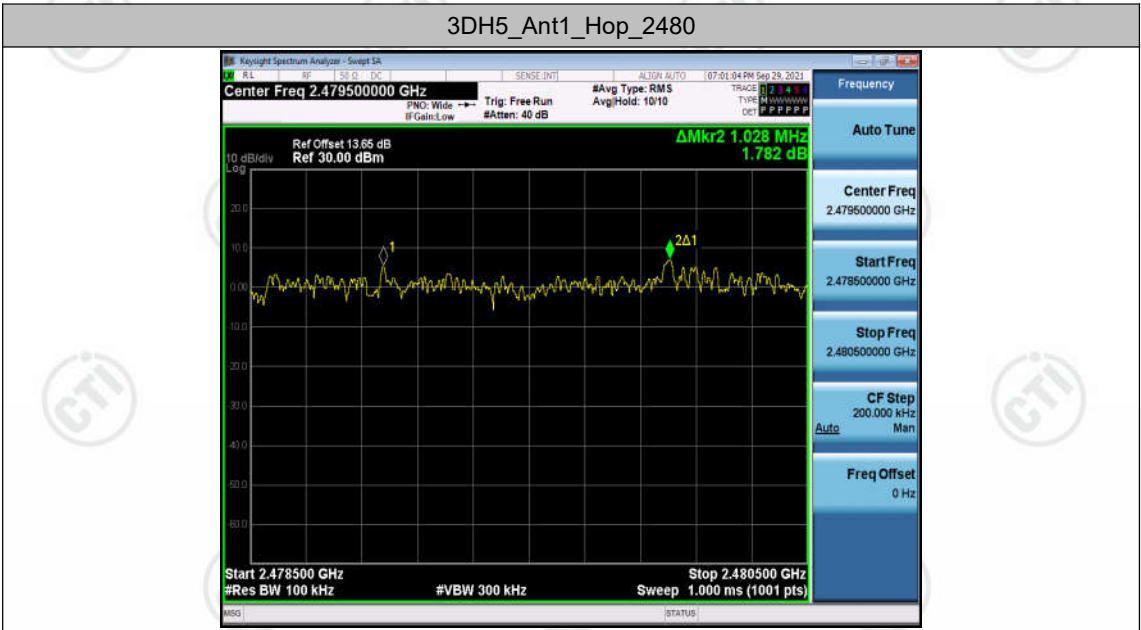
Test Graphs









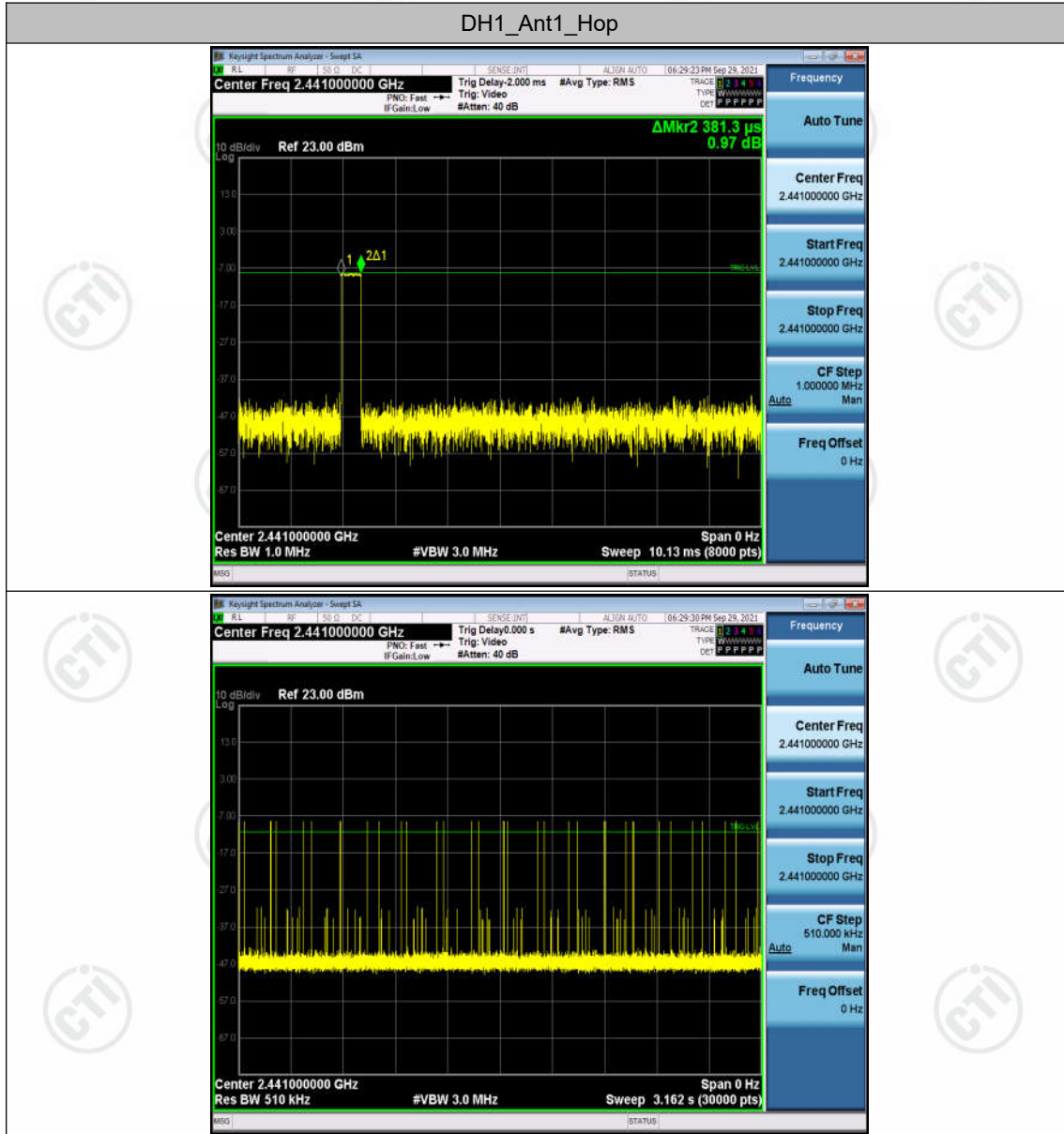


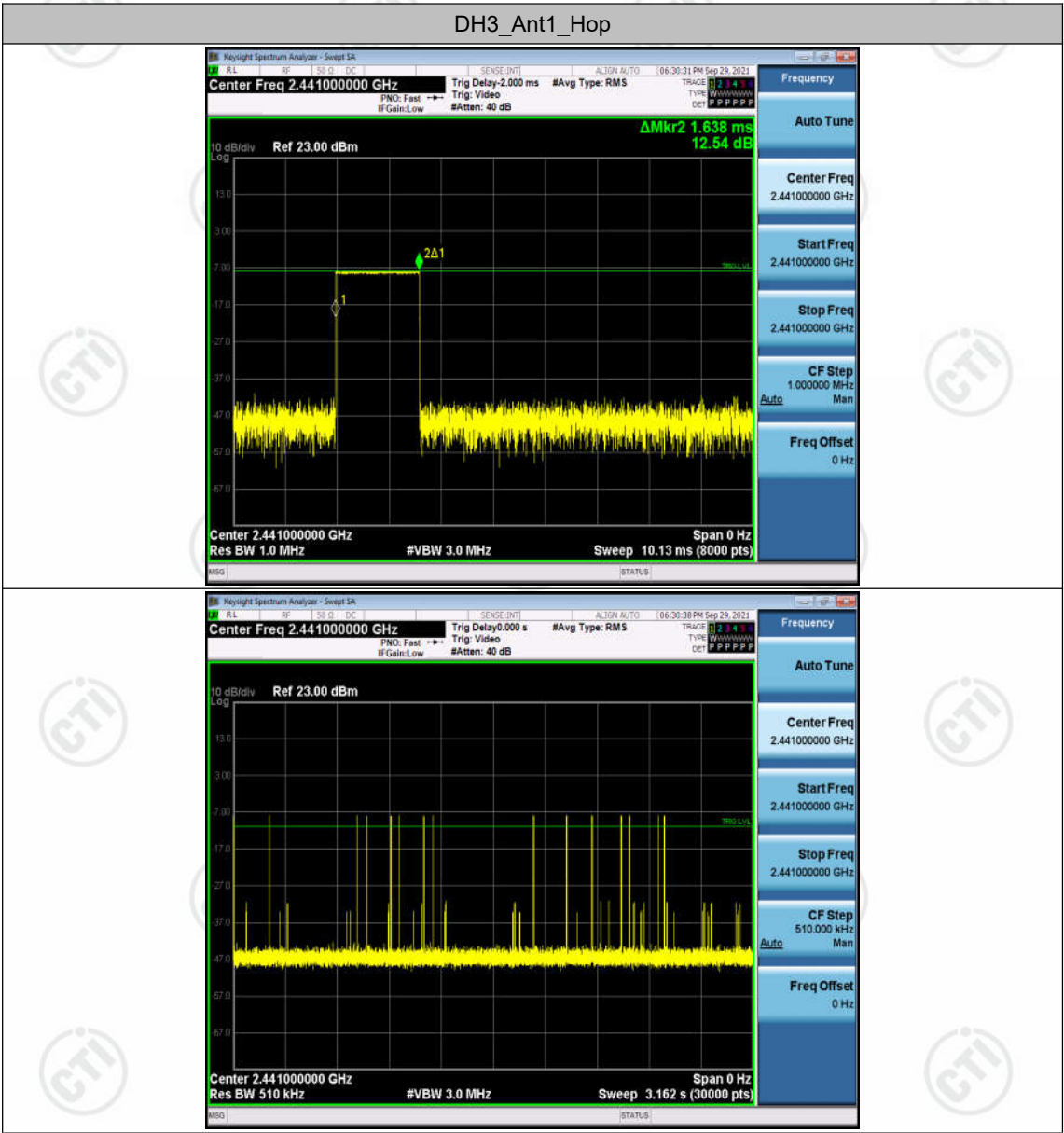
AppendixE: Time of occupancy

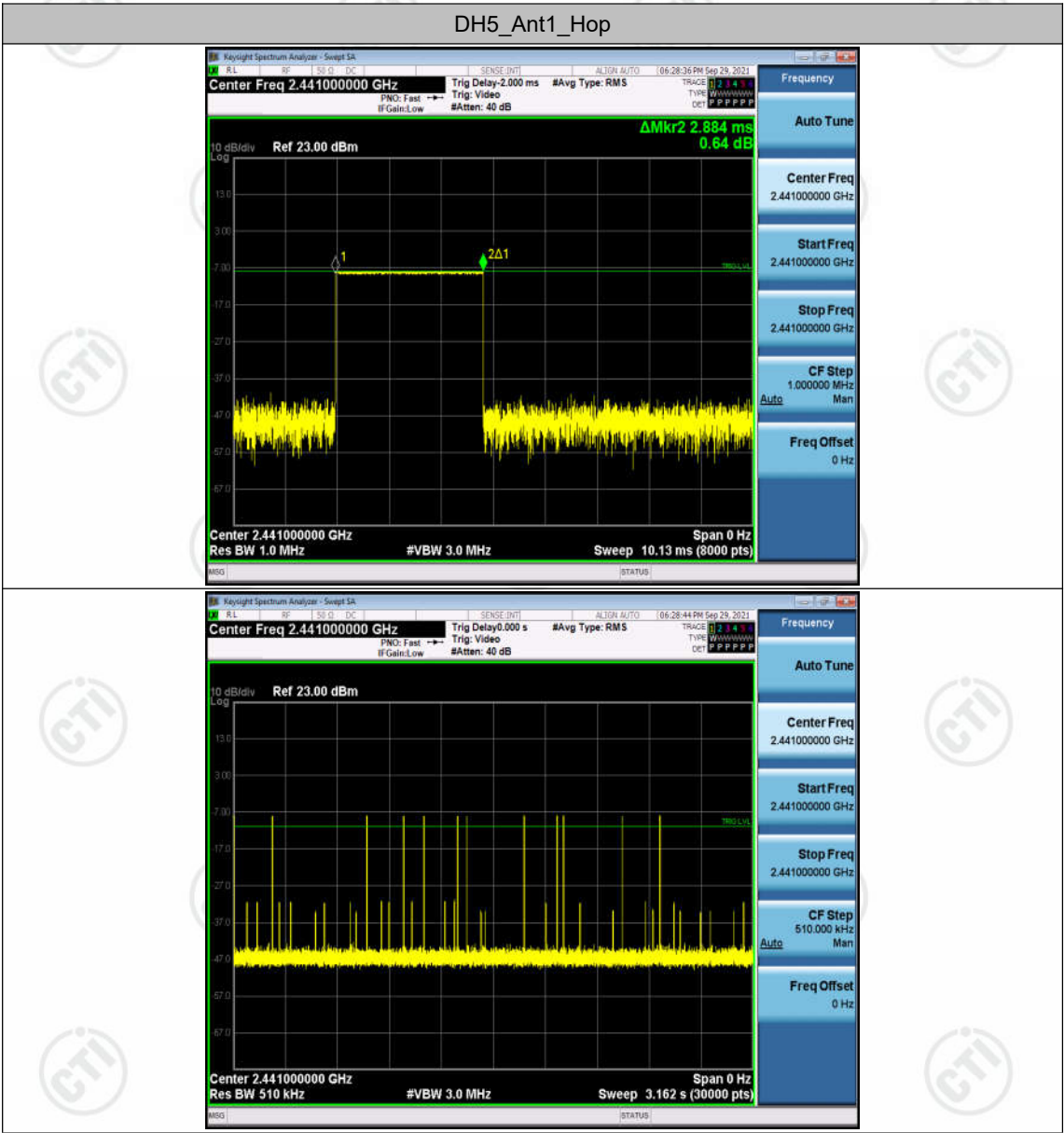
Test Result

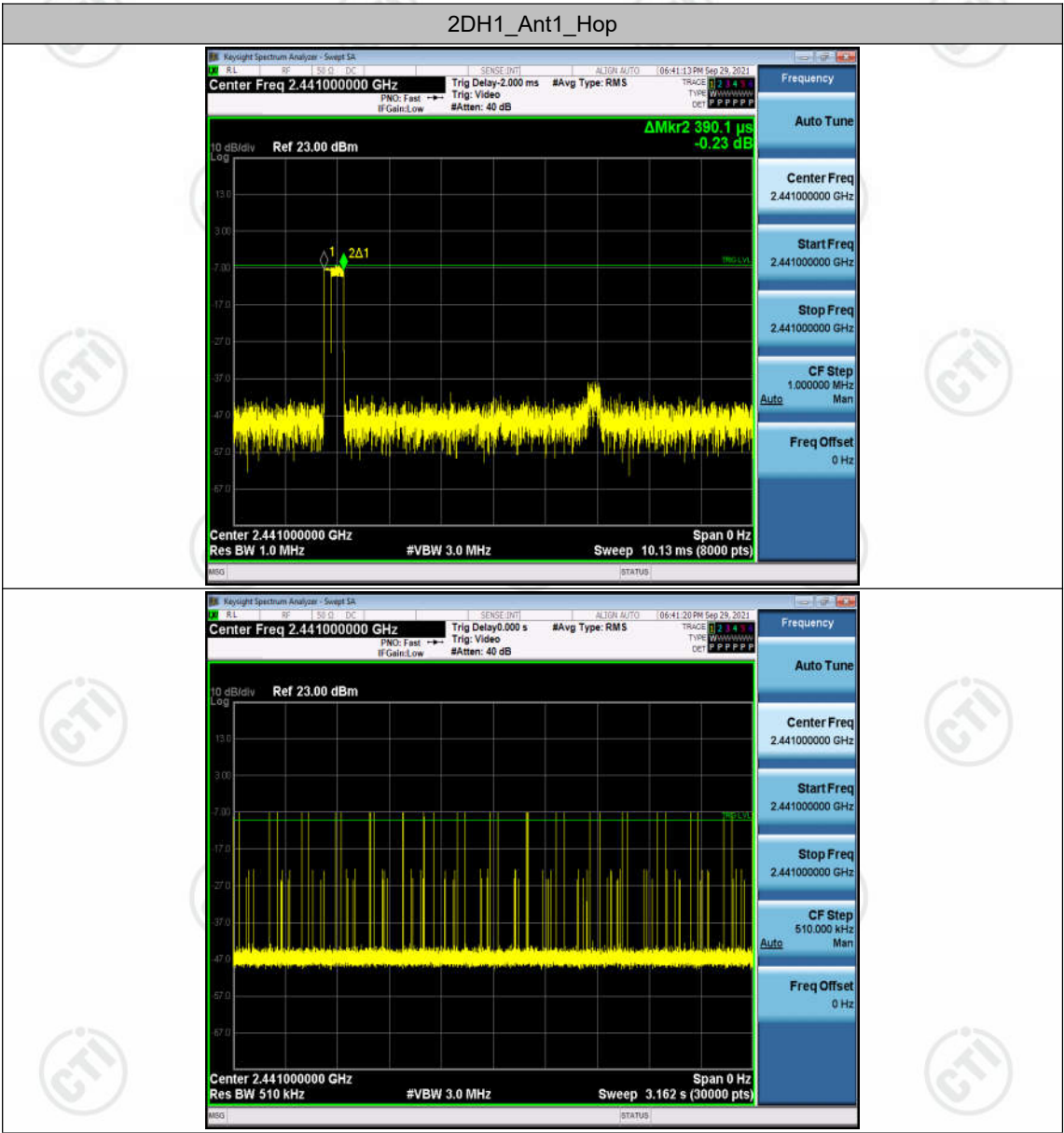
Test Mode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	330	0.126	<=0.4	PASS
DH3	Ant1	Hop	1.64	150	0.246	<=0.4	PASS
DH5	Ant1	Hop	2.88	120	0.346	<=0.4	PASS
2DH1	Ant1	Hop	0.39	330	0.129	<=0.4	PASS
2DH3	Ant1	Hop	1.64	160	0.263	<=0.4	PASS
2DH5	Ant1	Hop	2.89	120	0.347	<=0.4	PASS
3DH1	Ant1	Hop	0.39	330	0.129	<=0.4	PASS
3DH3	Ant1	Hop	1.64	170	0.279	<=0.4	PASS
3DH5	Ant1	Hop	2.89	110	0.318	<=0.4	PASS

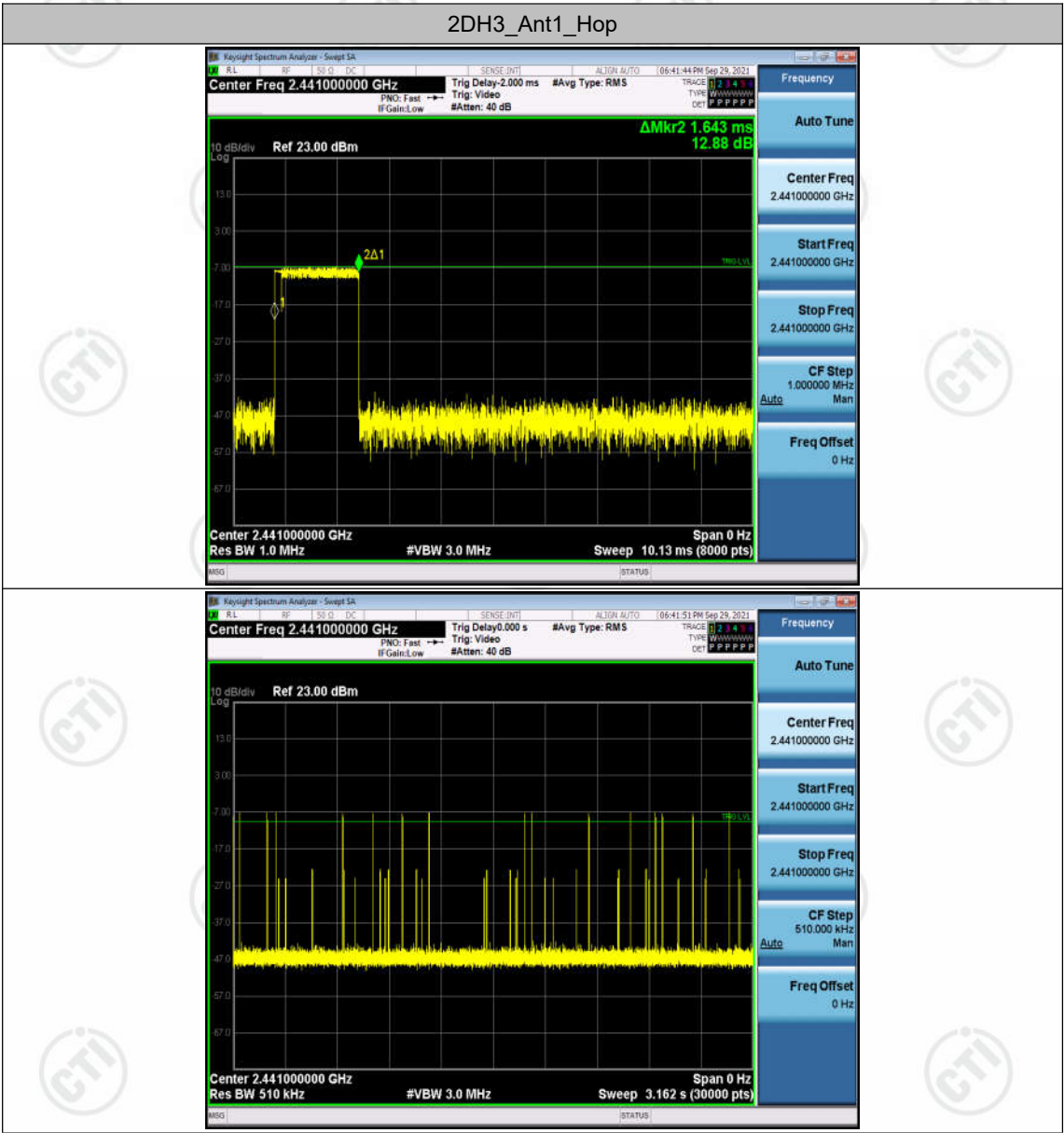
Test Graphs

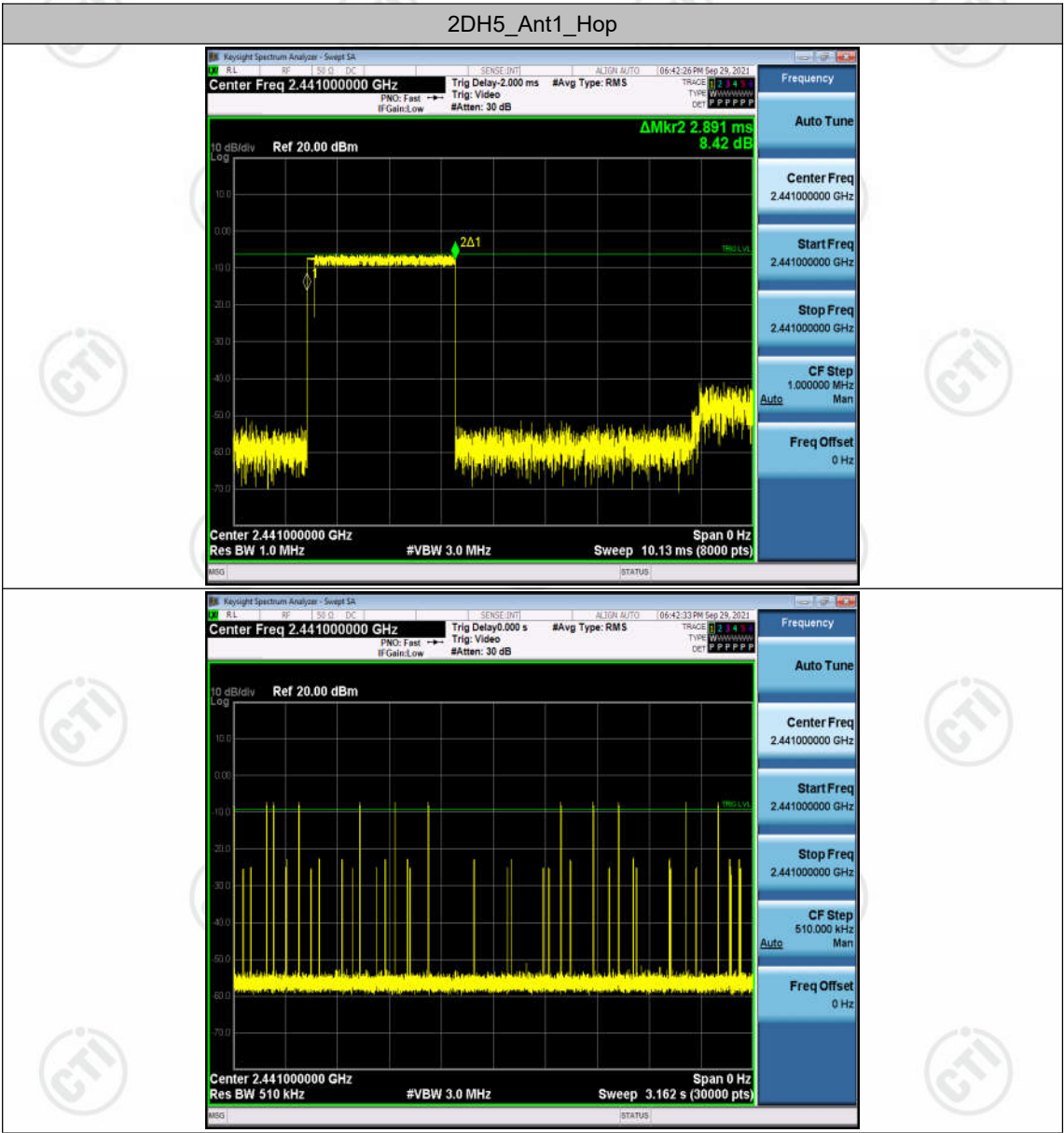


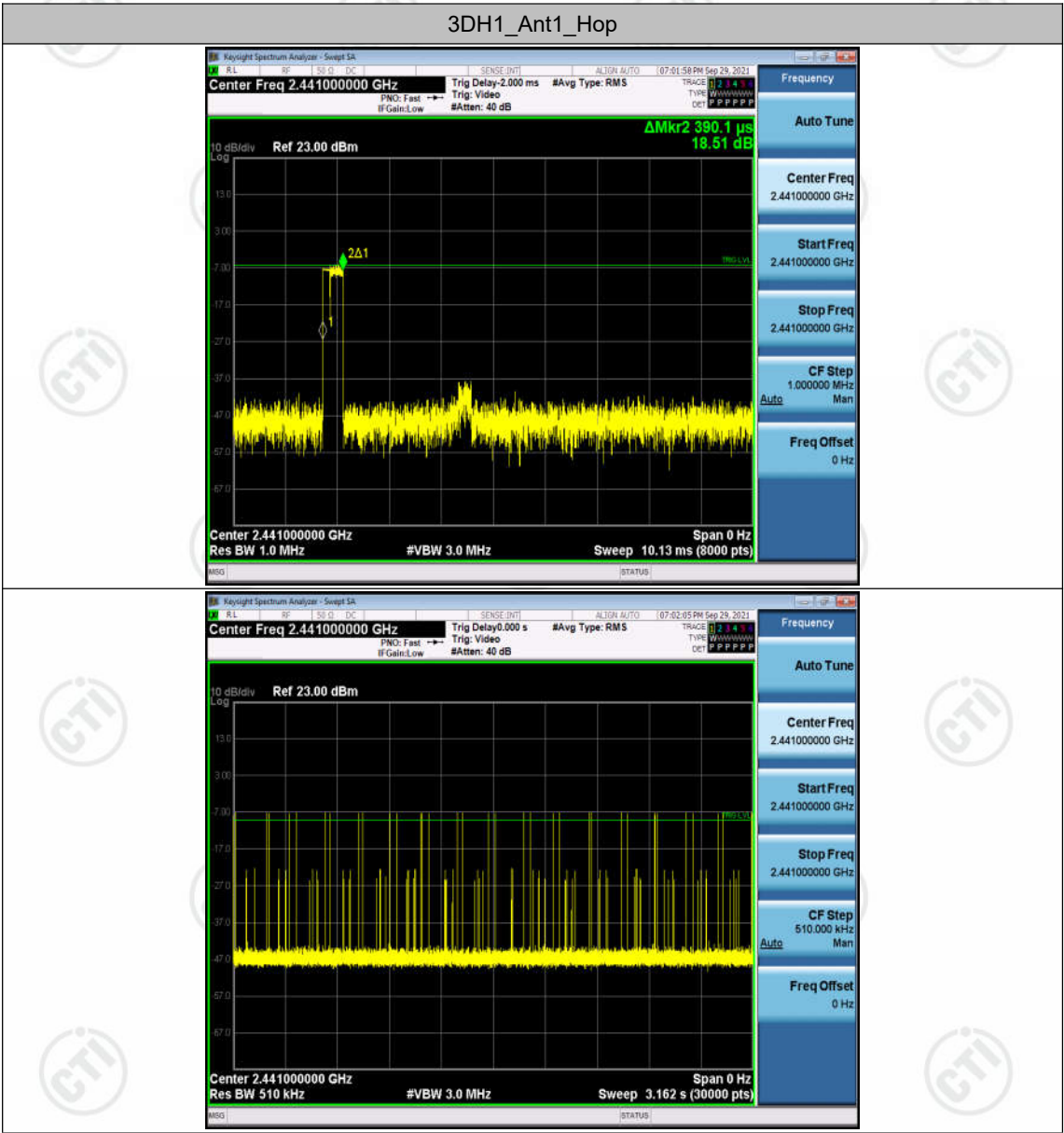


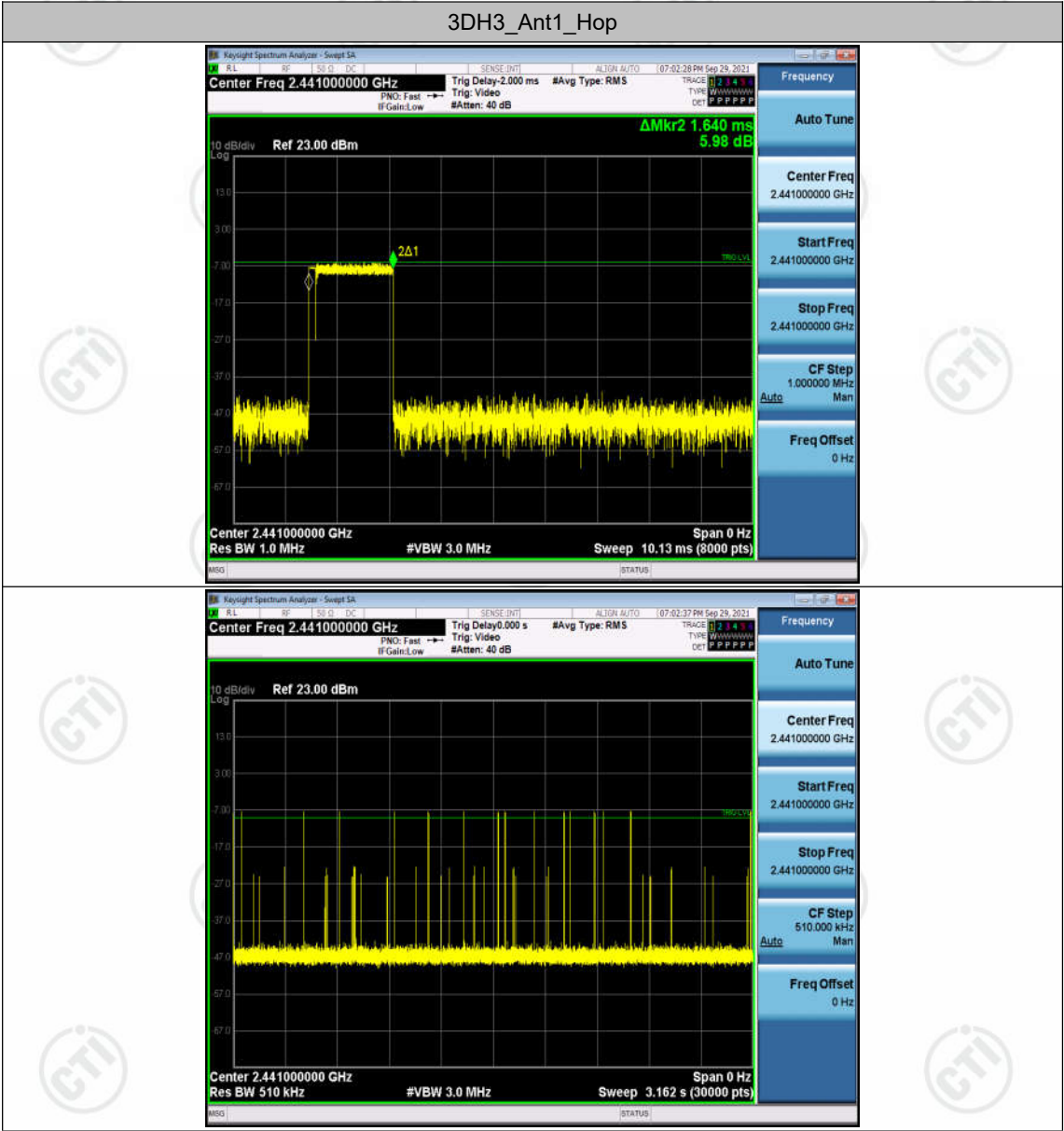


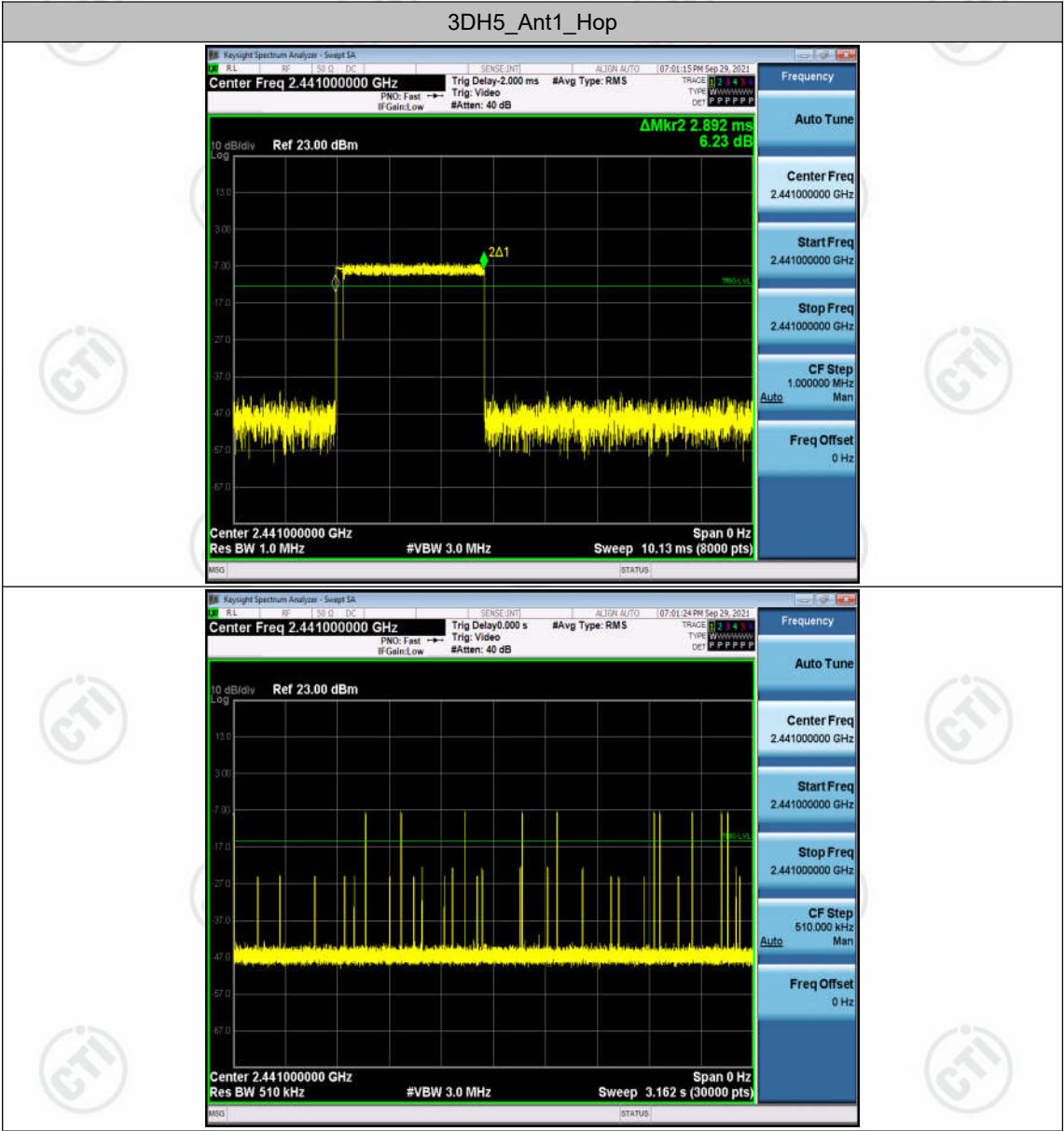










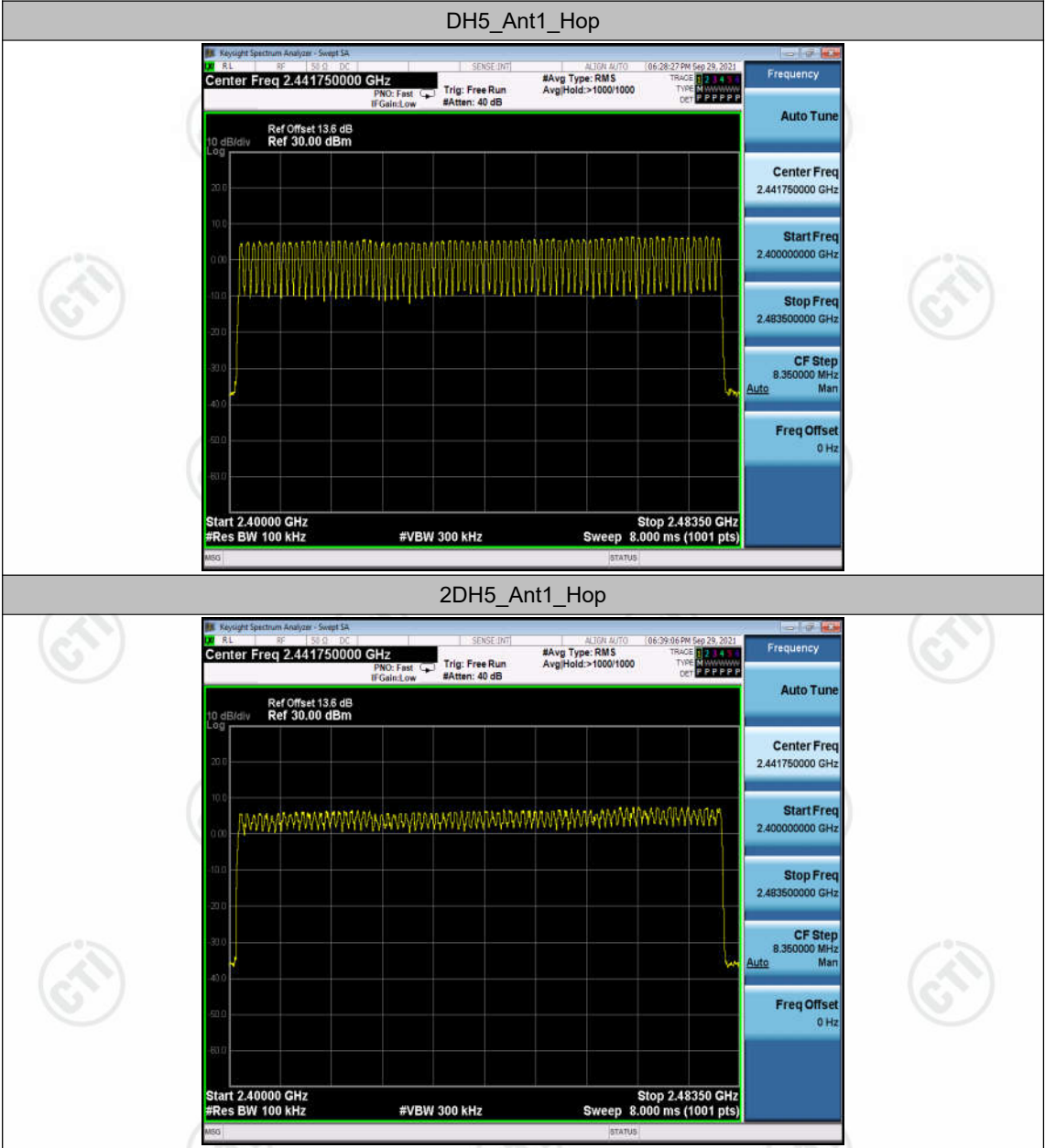


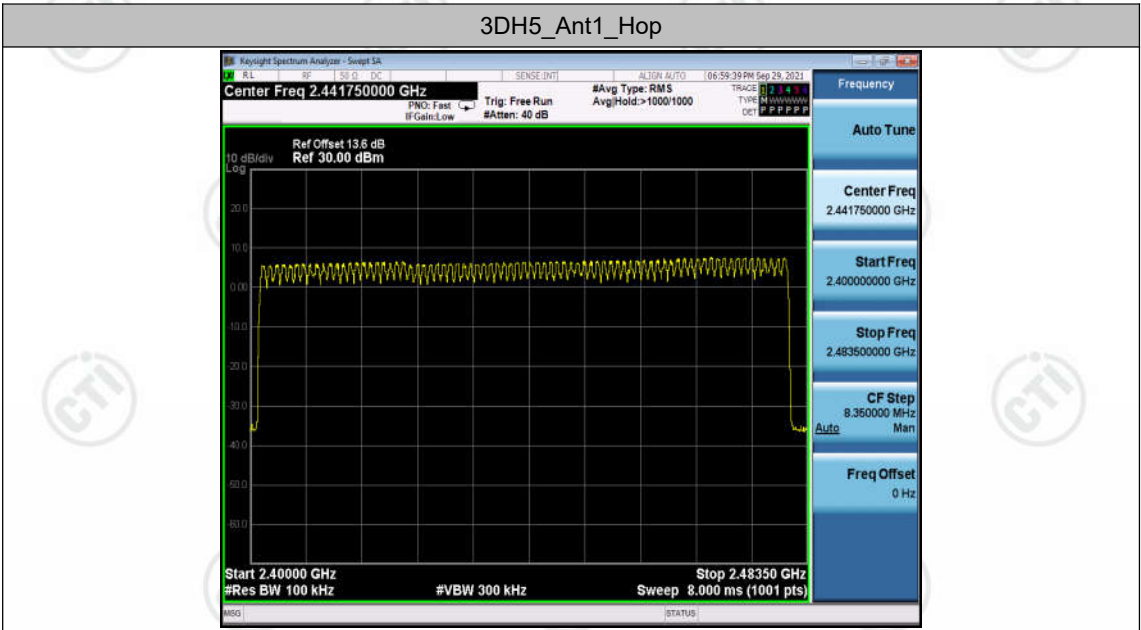
AppendixF: Number of hopping channels

Test Result

Test Mode	Antenna	Channel	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



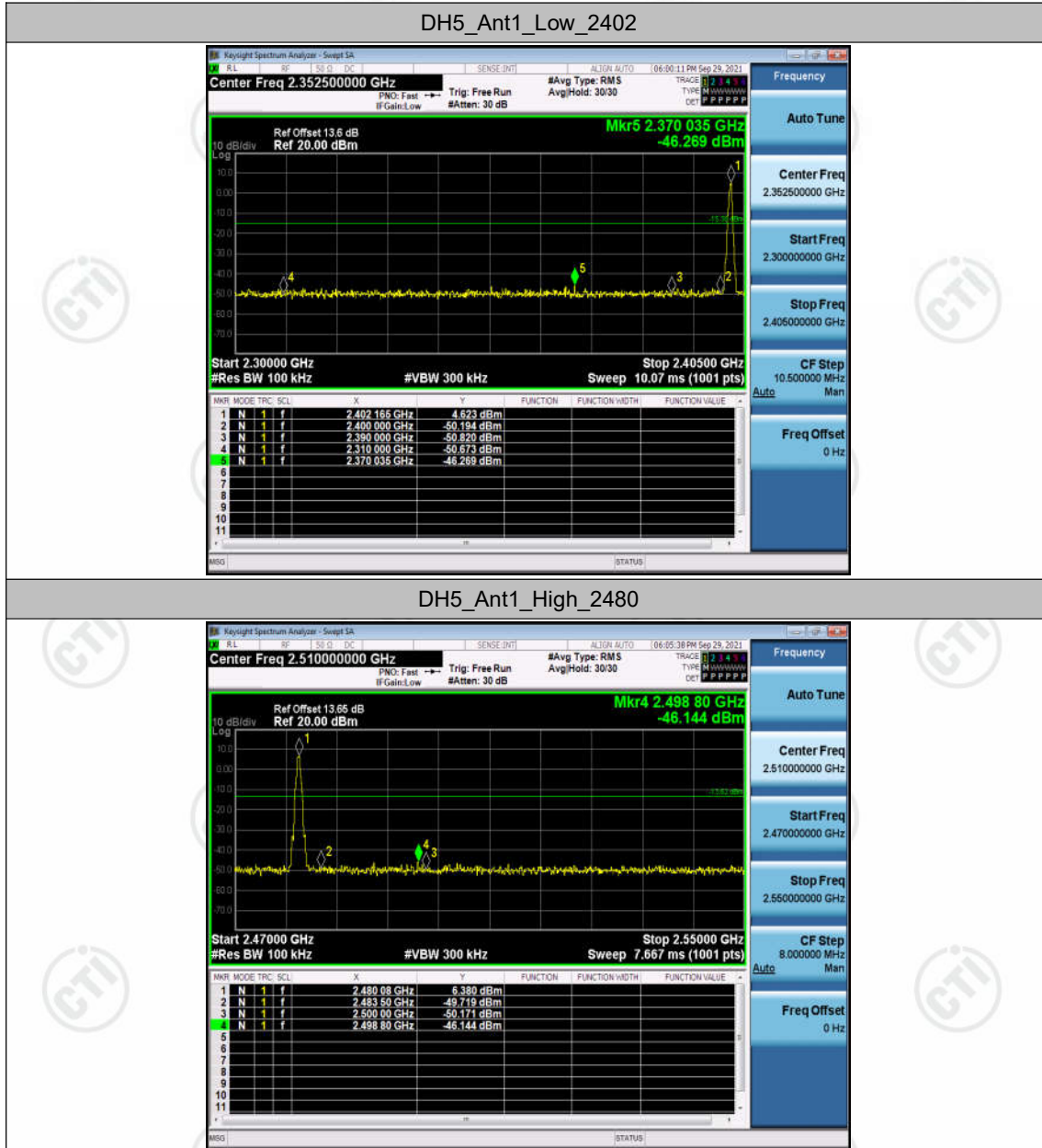


AppendixG:Band edge measurements

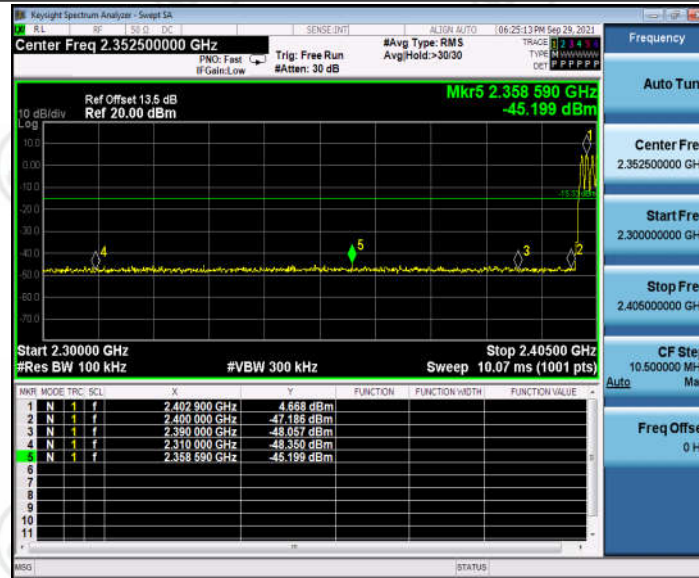
Test Result

Test Mode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	4.62	-46.27	<=-15.38	PASS
		High	2480	6.38	-46.14	<=-13.62	PASS
		Low	Hop_2402	4.67	-45.2	<=-15.33	PASS
		High	Hop_2480	6.54	-45.32	<=-13.47	PASS
2DH5	Ant1	Low	2402	2.09	-46.1	<=-17.91	PASS
		High	2480	0.42	-46.68	<=-19.58	PASS
		Low	Hop_2402	4.76	-45.34	<=-15.24	PASS
		High	Hop_2480	7.49	-44.62	<=-12.51	PASS
3DH5	Ant1	Low	2402	2.34	-46.07	<=-17.66	PASS
		High	2480	4.02	-46.41	<=-15.98	PASS
		Low	Hop_2402	5.33	-44.52	<=-14.67	PASS
		High	Hop_2480	7.48	-43.36	<=-12.52	PASS

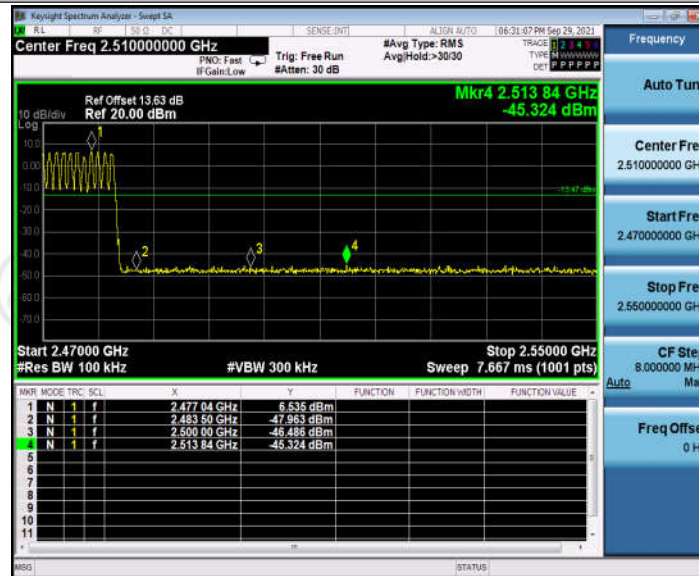
Test Graphs

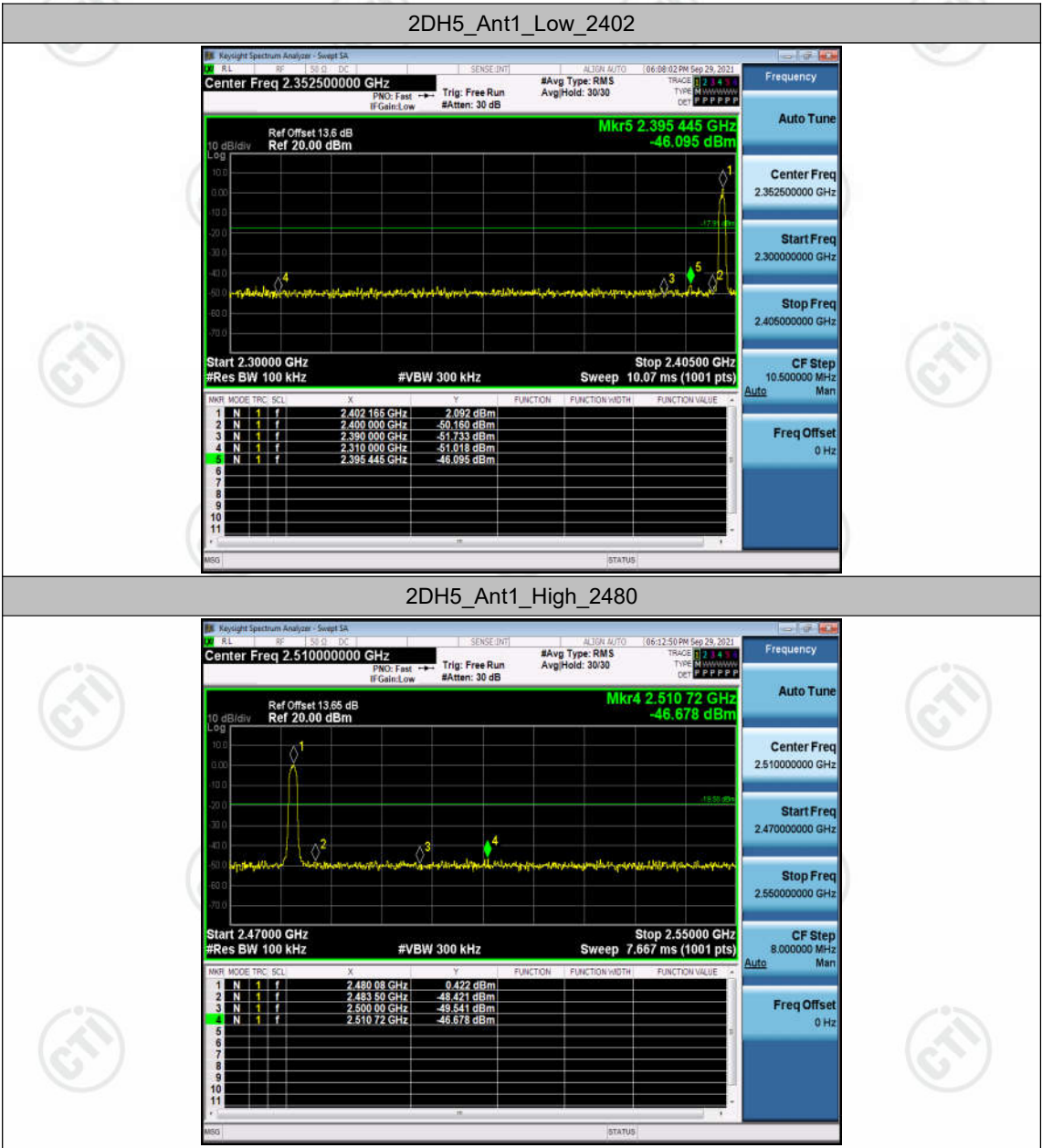


DH5_Ant1_Low_Hop_2402

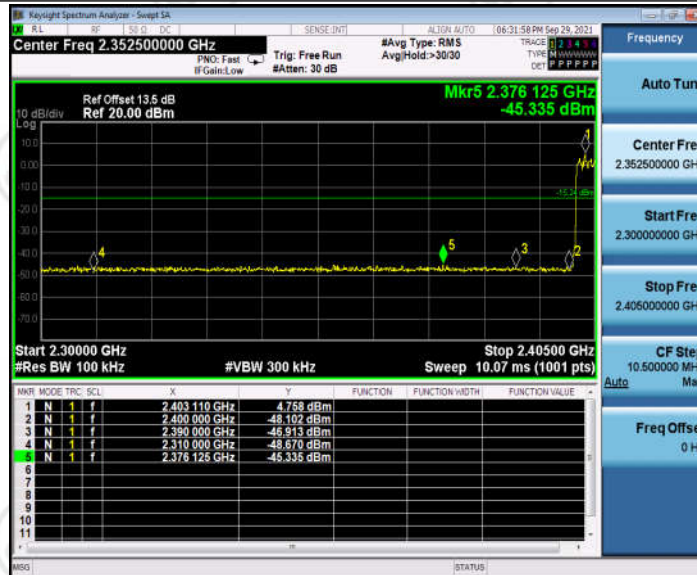


DH5_Ant1_High_Hop_2480

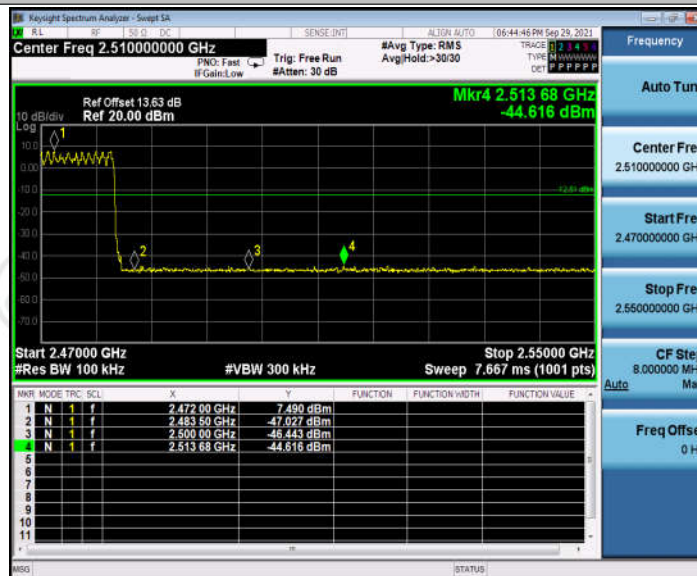


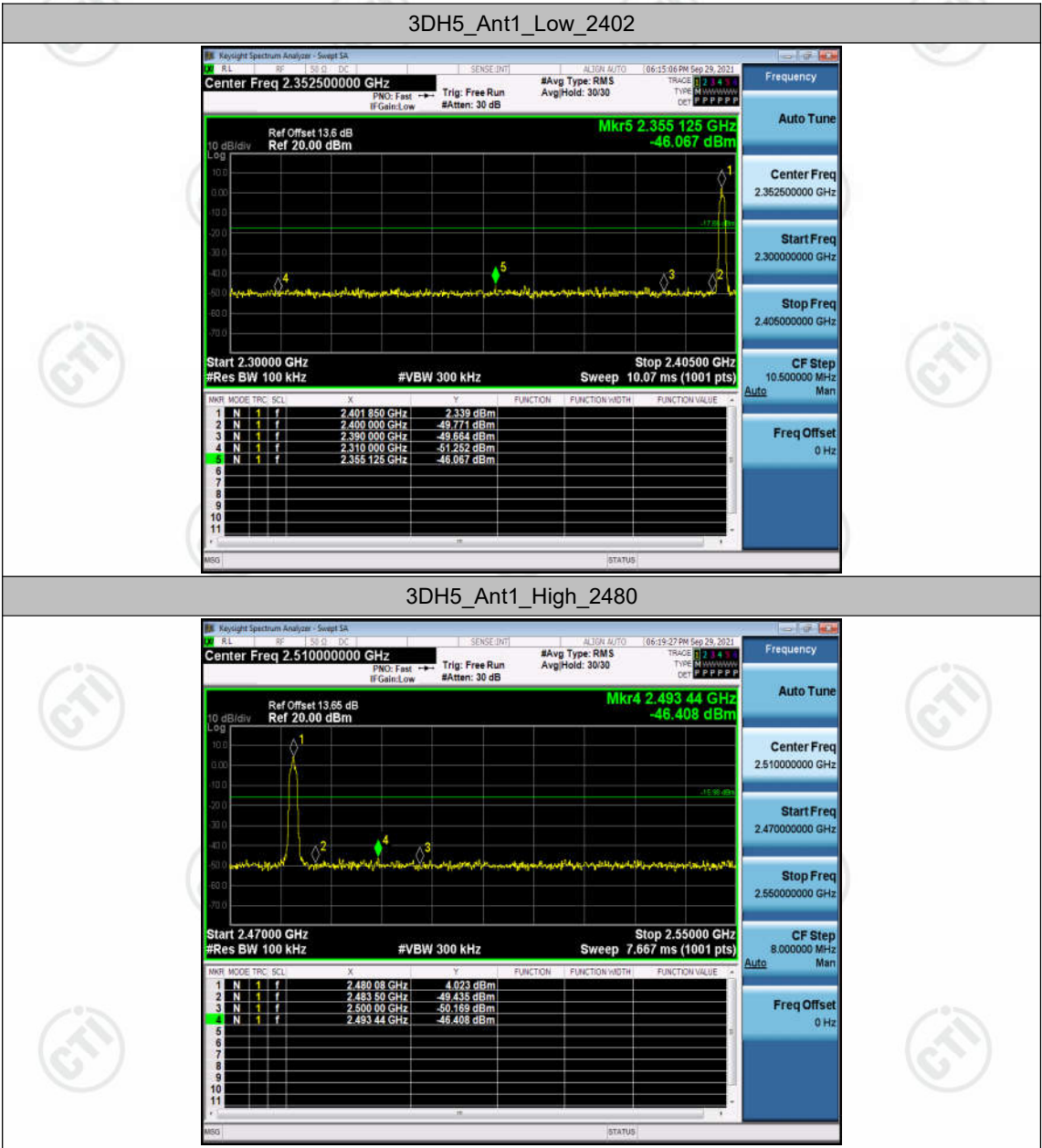


2DH5_Ant1_Low_Hop_2402

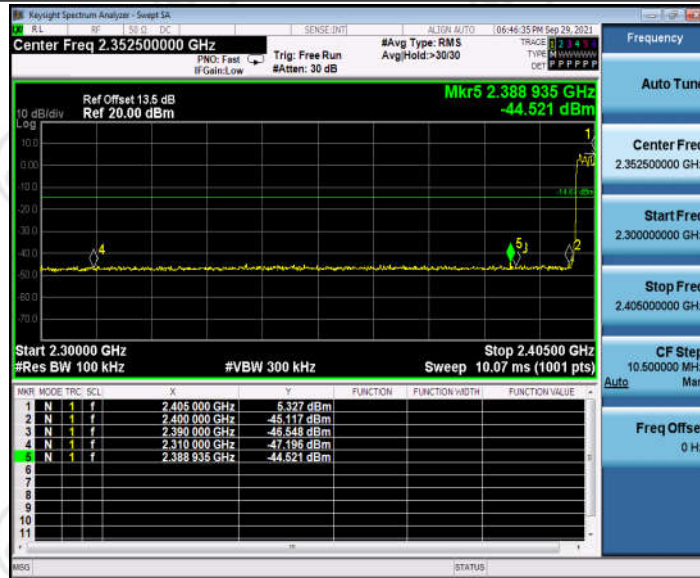


2DH5_Ant1_High_Hop_2480

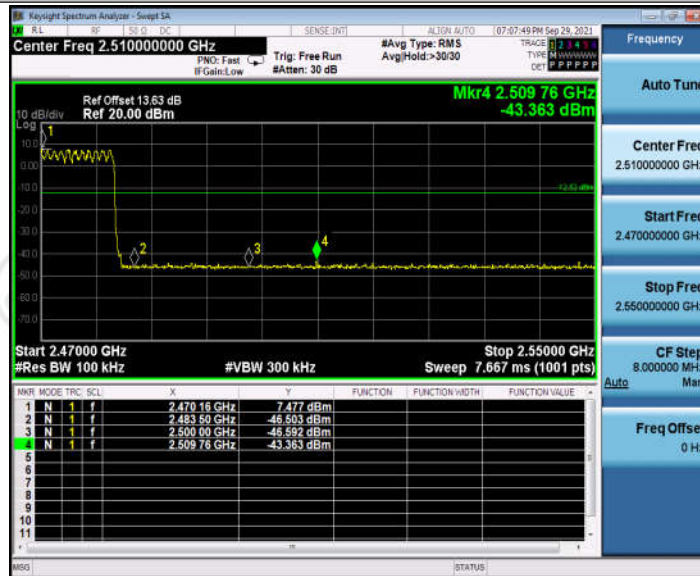




3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

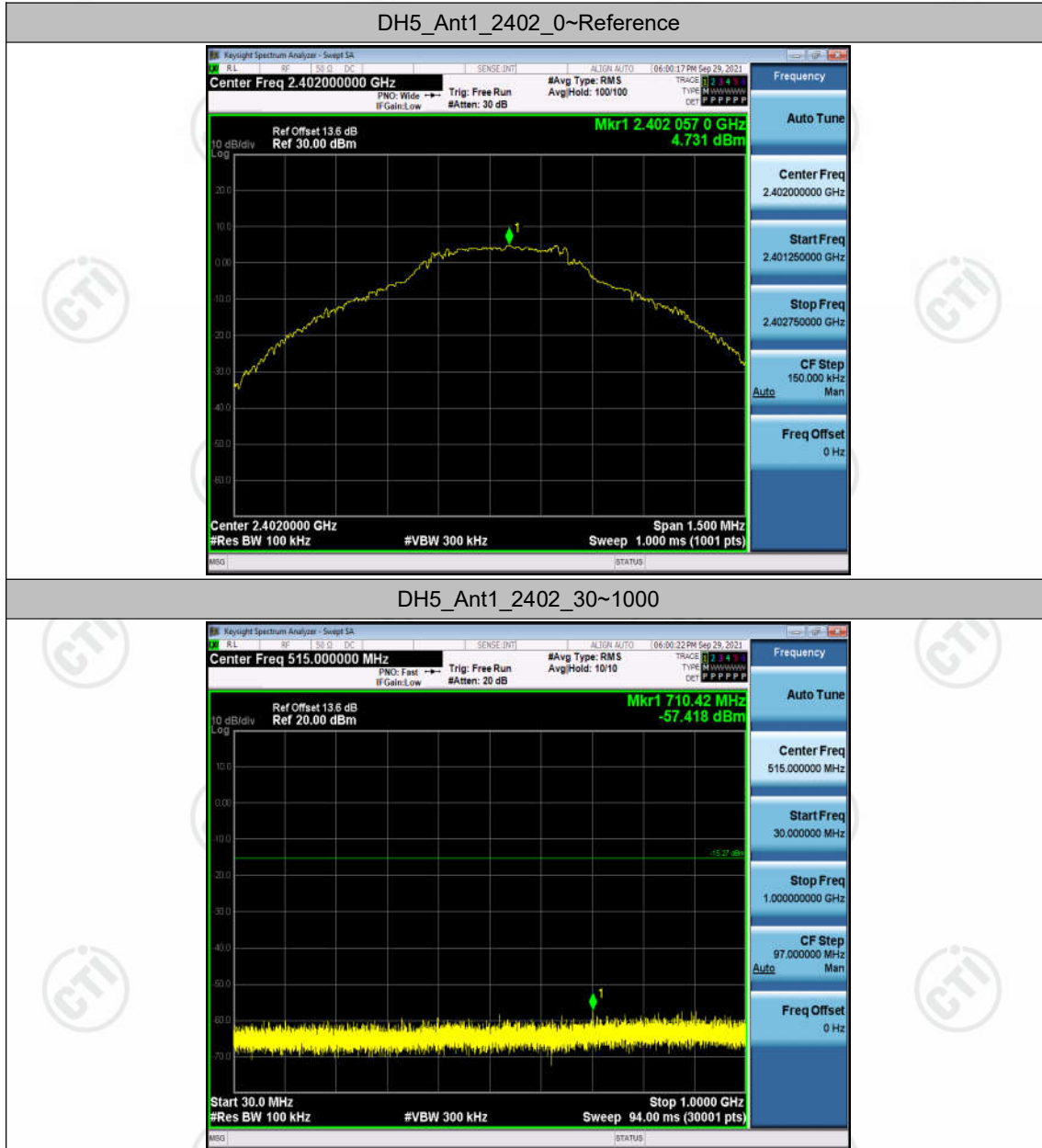


AppendixH:Conducted SpuriousEmission

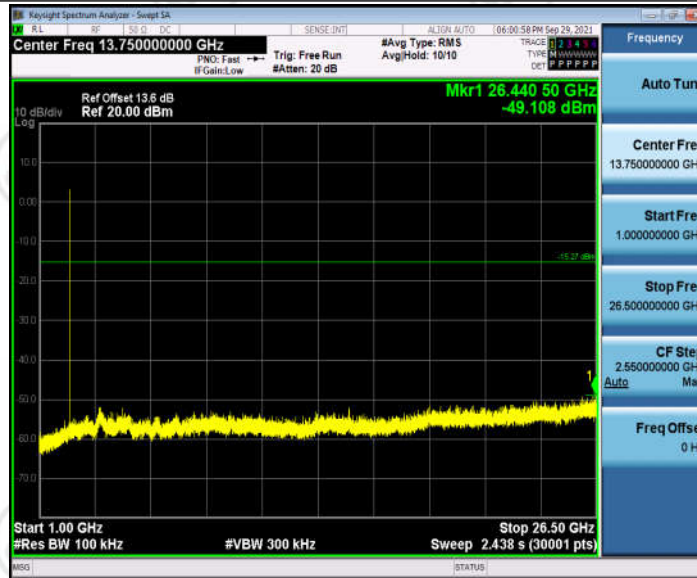
Test Result

Test Mode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	4.73	4.73	---	PASS
			30~1000	---	-57.418	<=-15.269	PASS
			1000~26500	---	-49.108	<=-15.269	PASS
		2441	Reference	5.62	5.62	---	PASS
			30~1000	---	-57.426	<=-14.377	PASS
			1000~26500	---	-49.405	<=-14.377	PASS
		2480	Reference	6.45	6.45	---	PASS
			30~1000	---	-57.396	<=-13.554	PASS
			1000~26500	---	-48.783	<=-13.554	PASS
2DH5	Ant1	2402	Reference	2.38	2.38	---	PASS
			30~1000	---	-57.74	<=-17.621	PASS
			1000~26500	---	-49.819	<=-17.621	PASS
		2441	Reference	2.93	2.93	---	PASS
			30~1000	---	-58.161	<=-17.067	PASS
			1000~26500	---	-48.744	<=-17.067	PASS
		2480	Reference	3.68	3.68	---	PASS
			30~1000	---	-57.241	<=-16.322	PASS
			1000~26500	---	-48.942	<=-16.322	PASS
3DH5	Ant1	2402	Reference	2.33	2.33	---	PASS
			30~1000	---	-57.225	<=-17.669	PASS
			1000~26500	---	-49.354	<=-17.669	PASS
		2441	Reference	2.89	2.89	---	PASS
			30~1000	---	-56.996	<=-17.114	PASS
			1000~26500	---	-49.728	<=-17.114	PASS
		2480	Reference	3.87	3.87	---	PASS
			30~1000	---	-57.419	<=-16.134	PASS
			1000~26500	---	-49.707	<=-16.134	PASS

Test Graphs



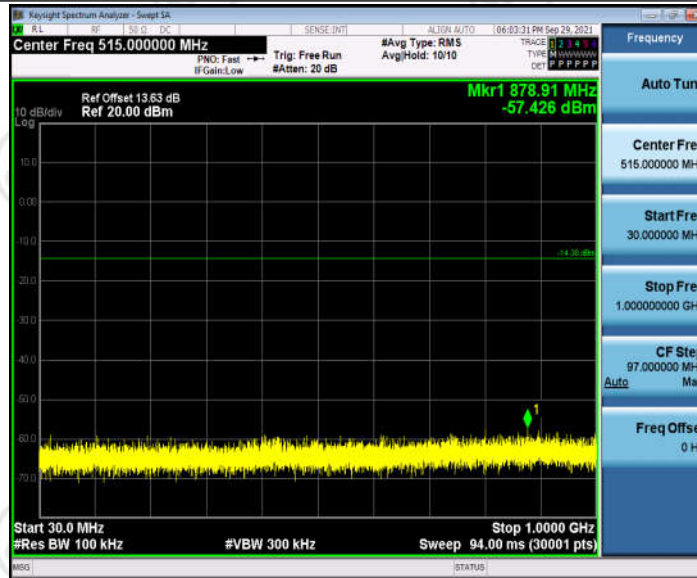
DH5_Ant1_2402_1000~26500



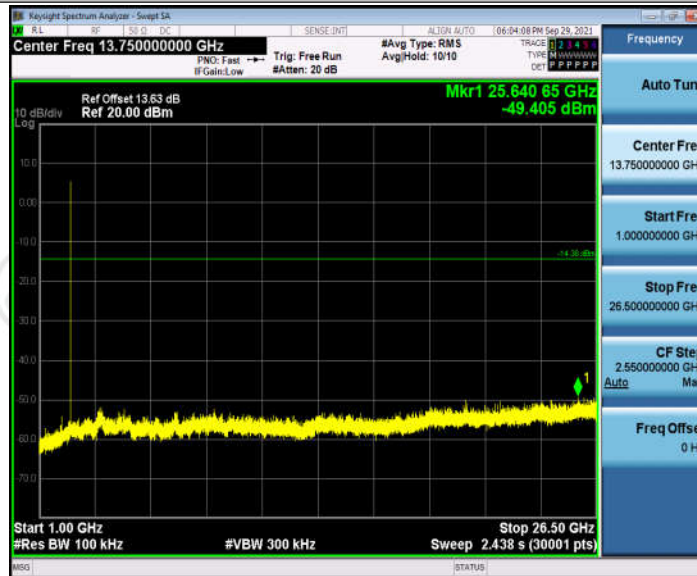
DH5_Ant1_2441_0~Reference

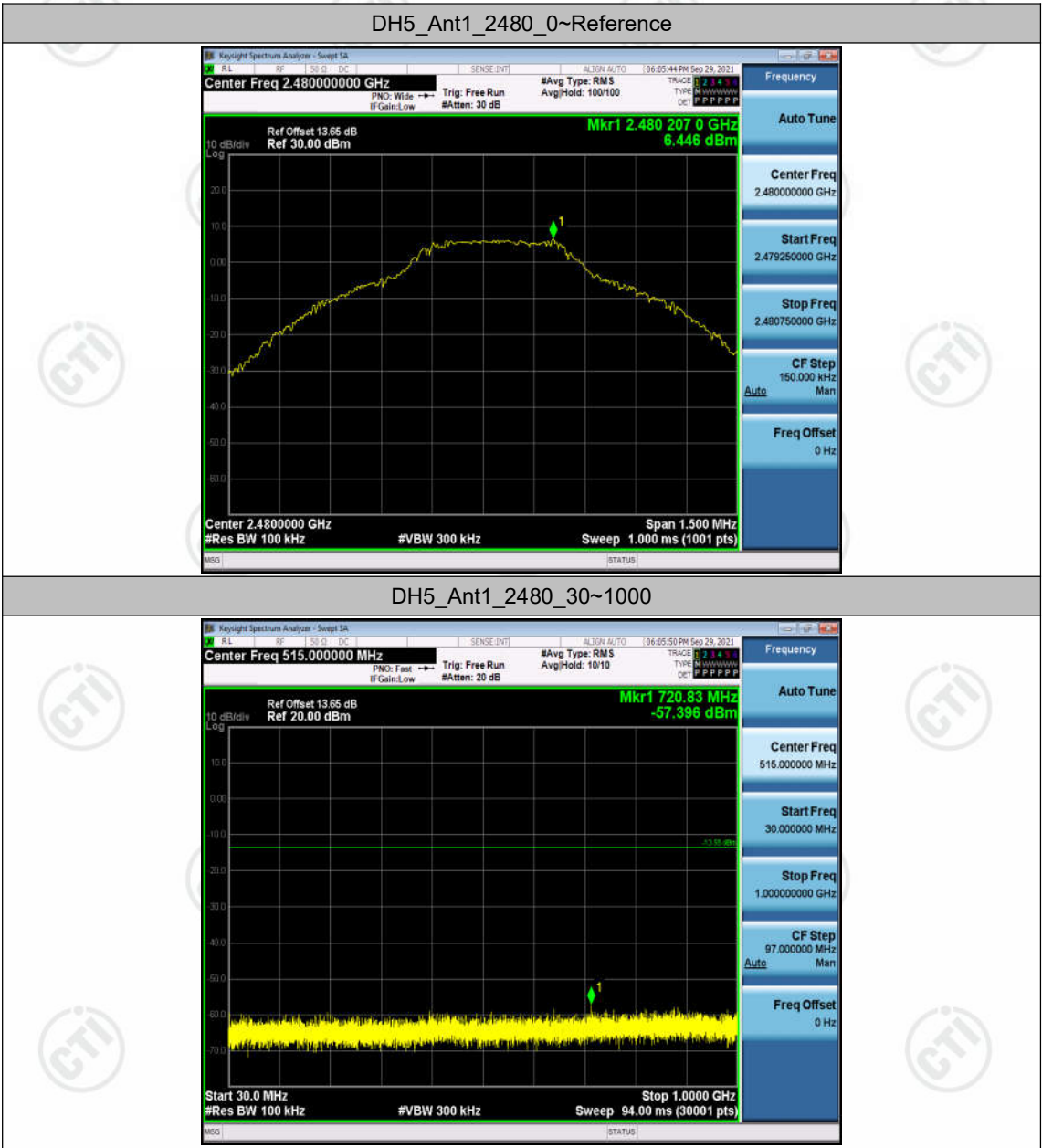


DH5_Ant1_2441_30~1000



DH5_Ant1_2441_1000~26500



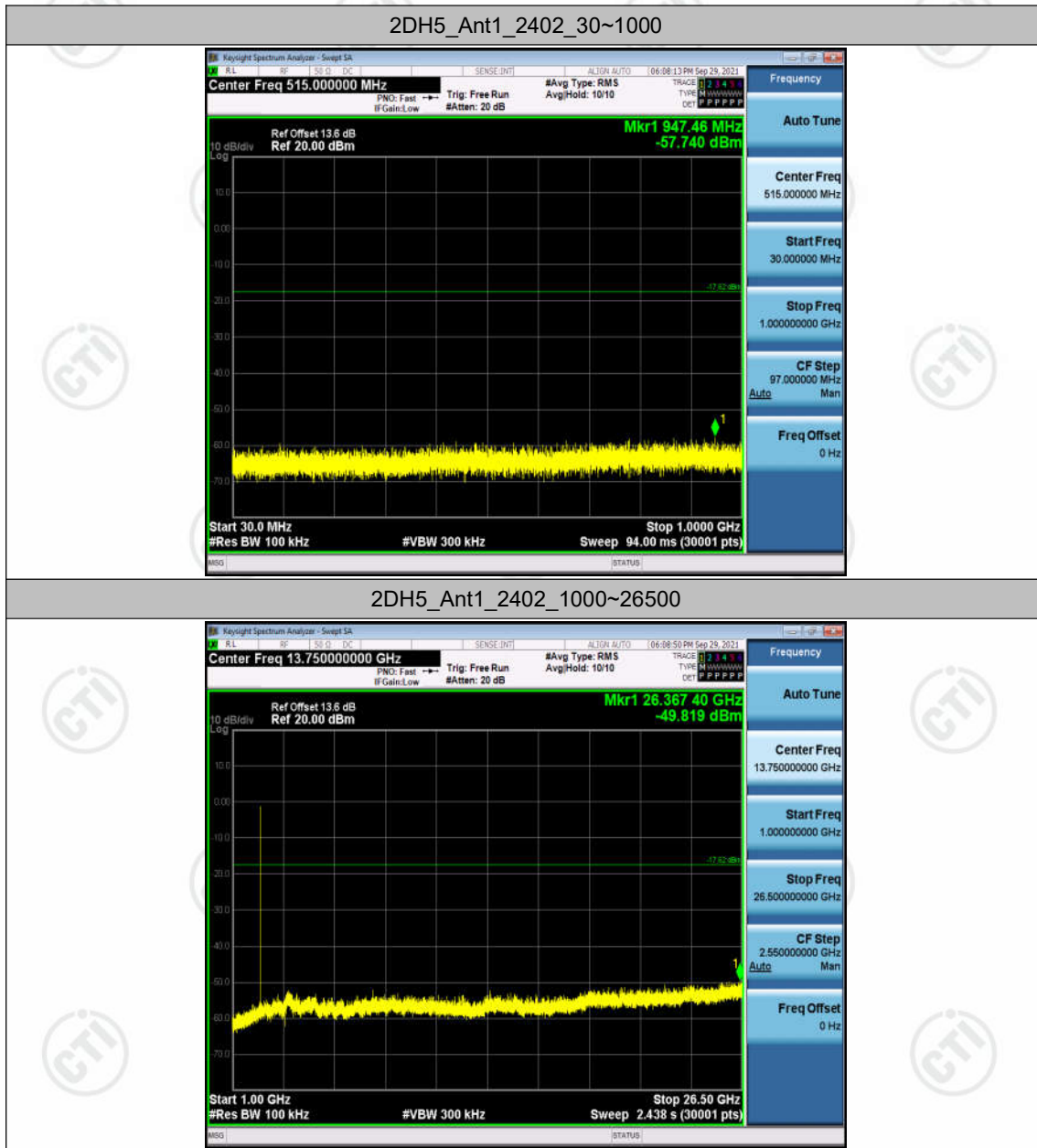


DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

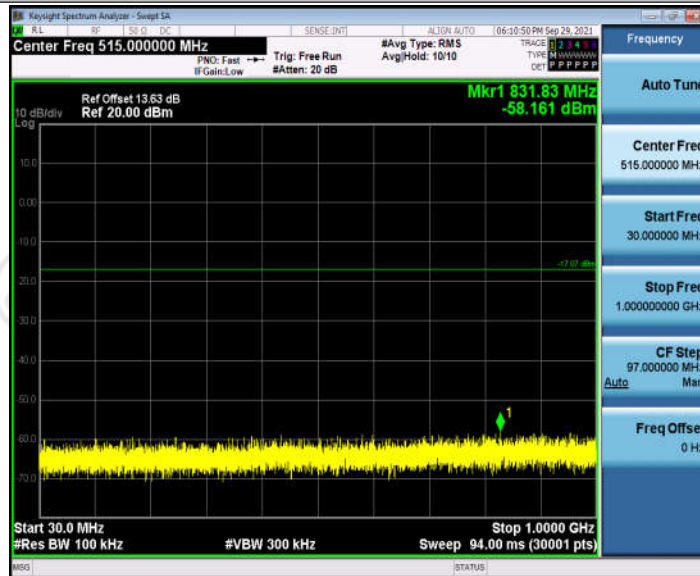


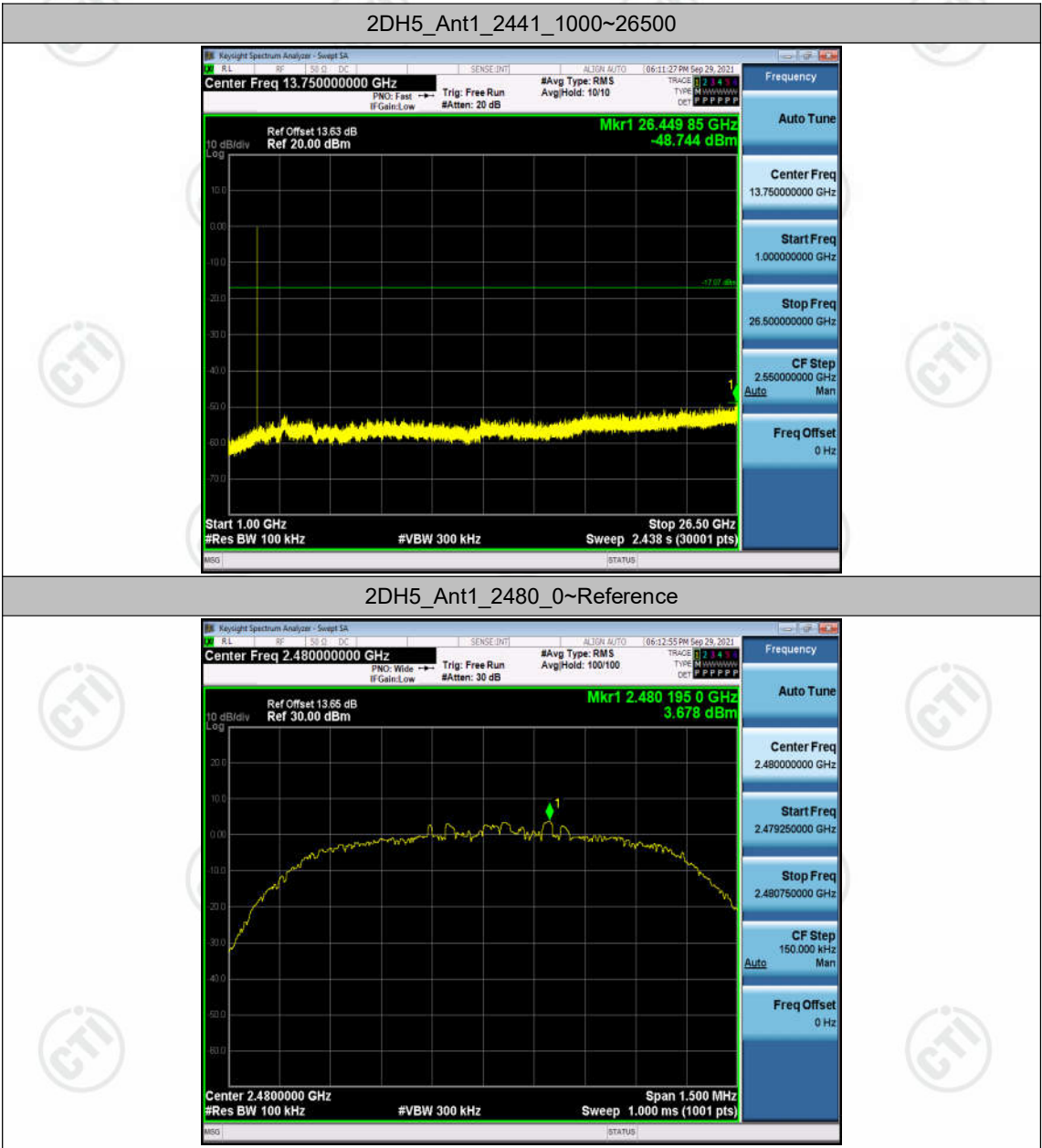


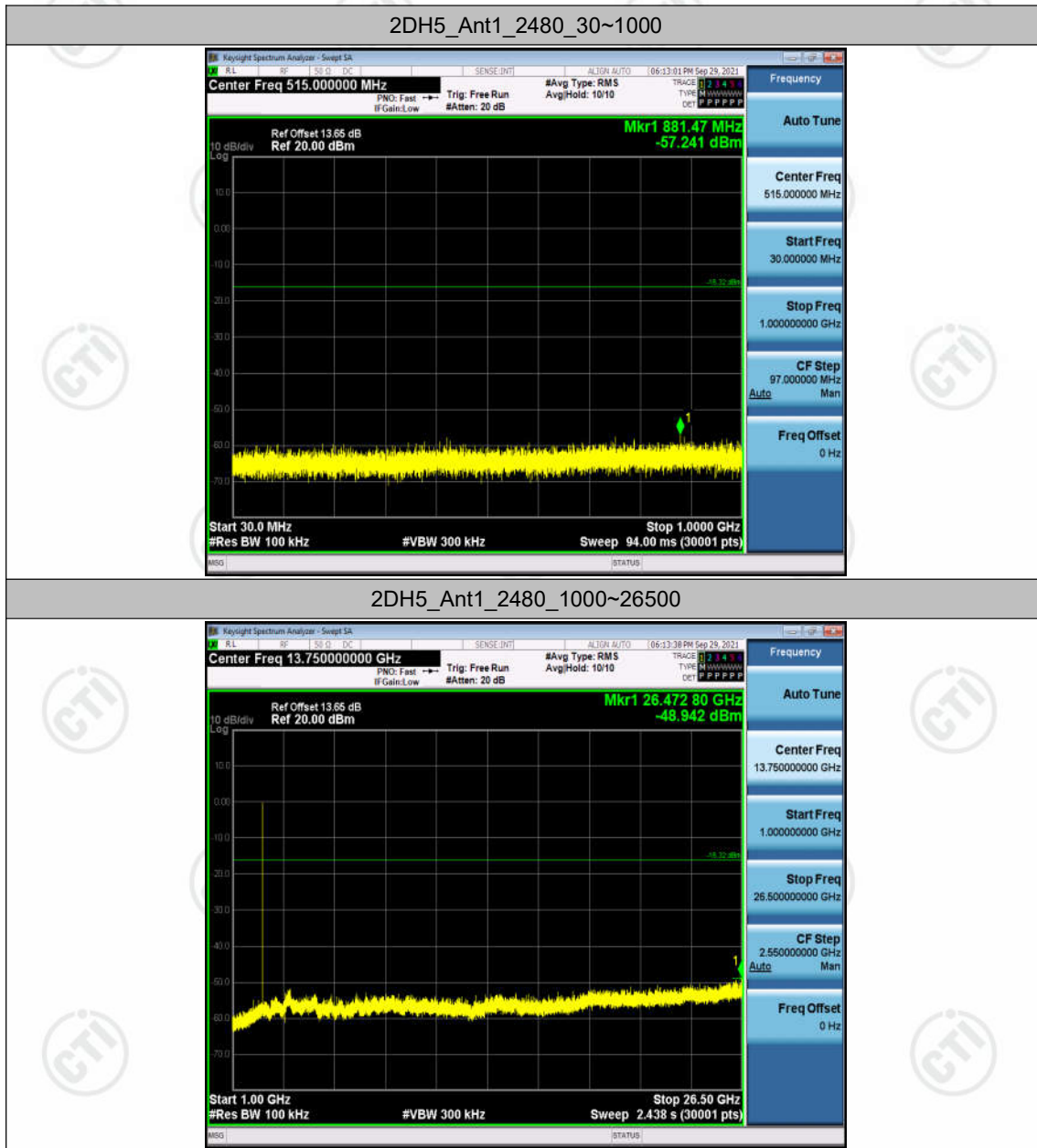
2DH5_Ant1_2441_0~Reference

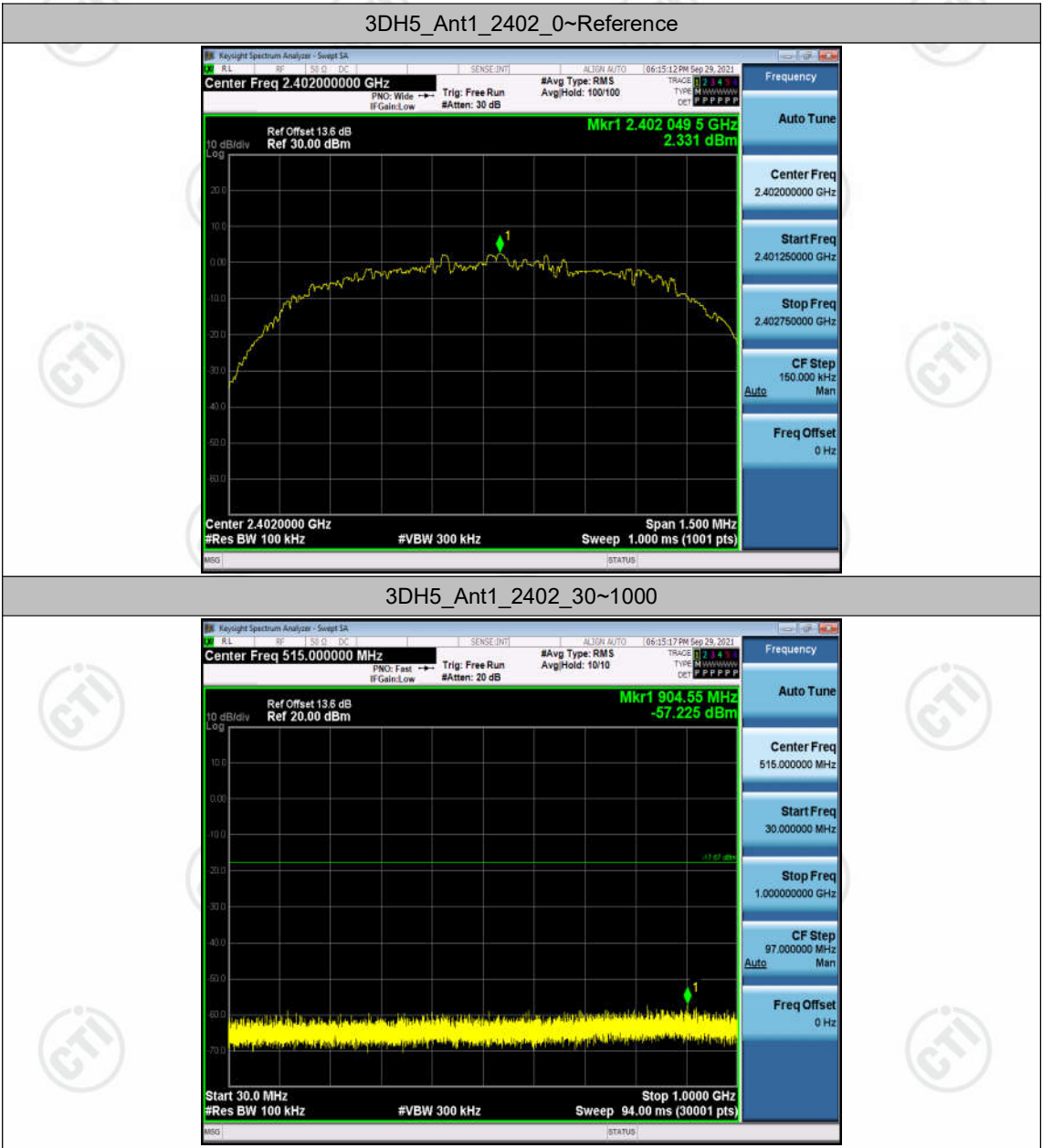


2DH5_Ant1_2441_30~1000







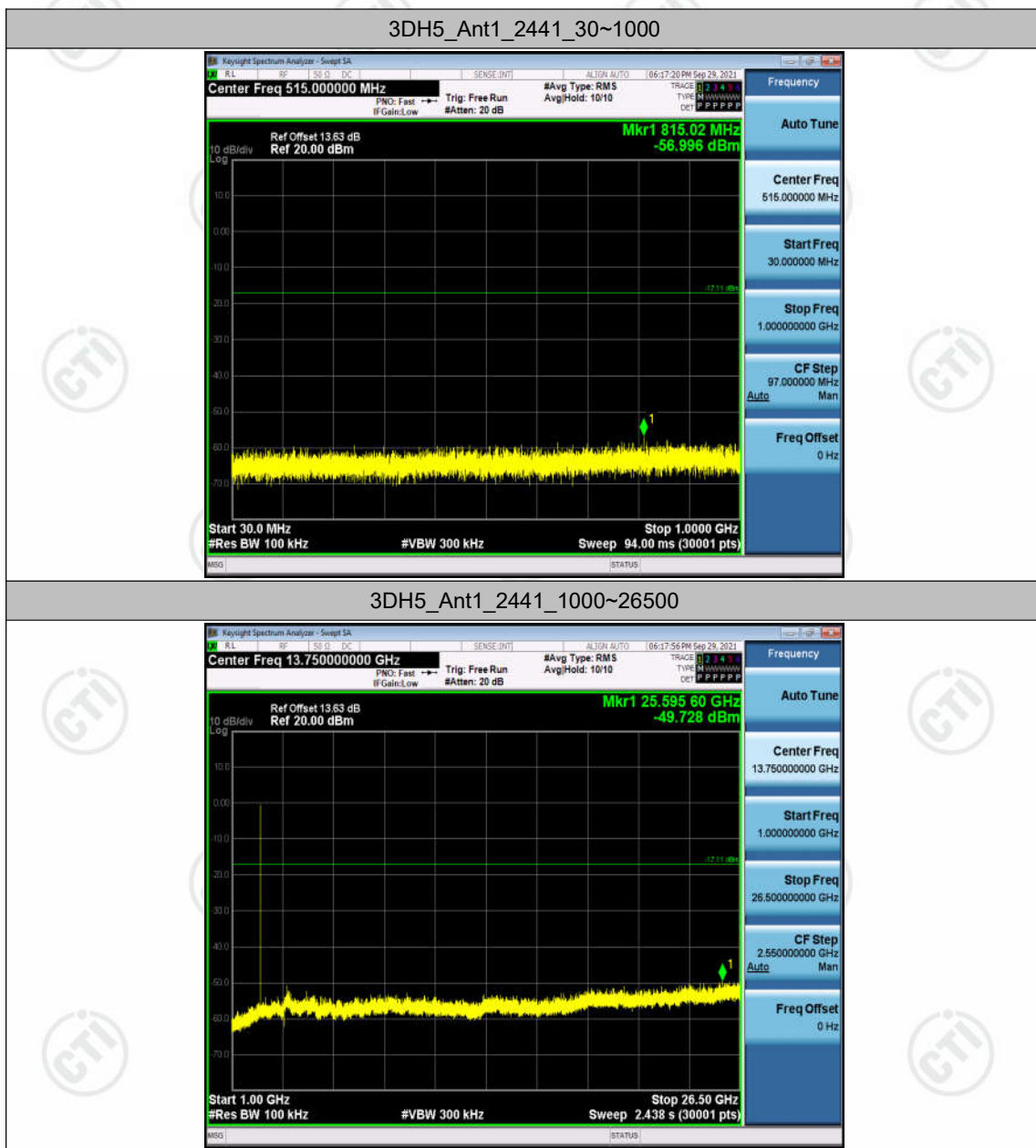


3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference

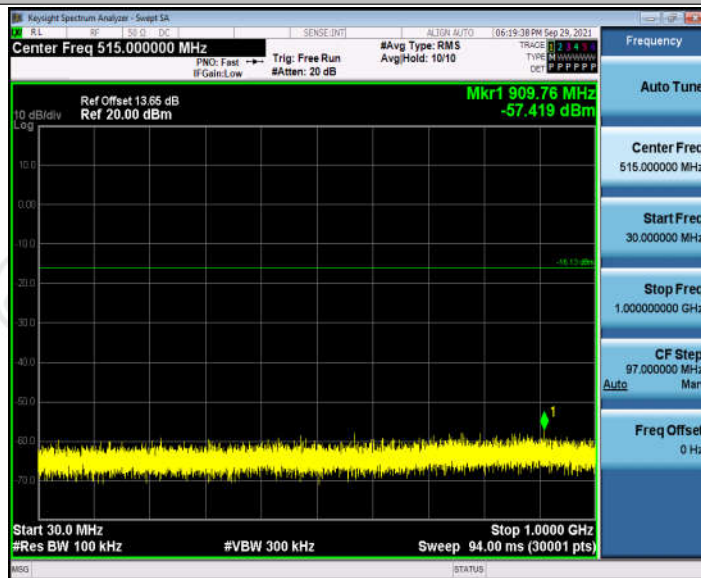


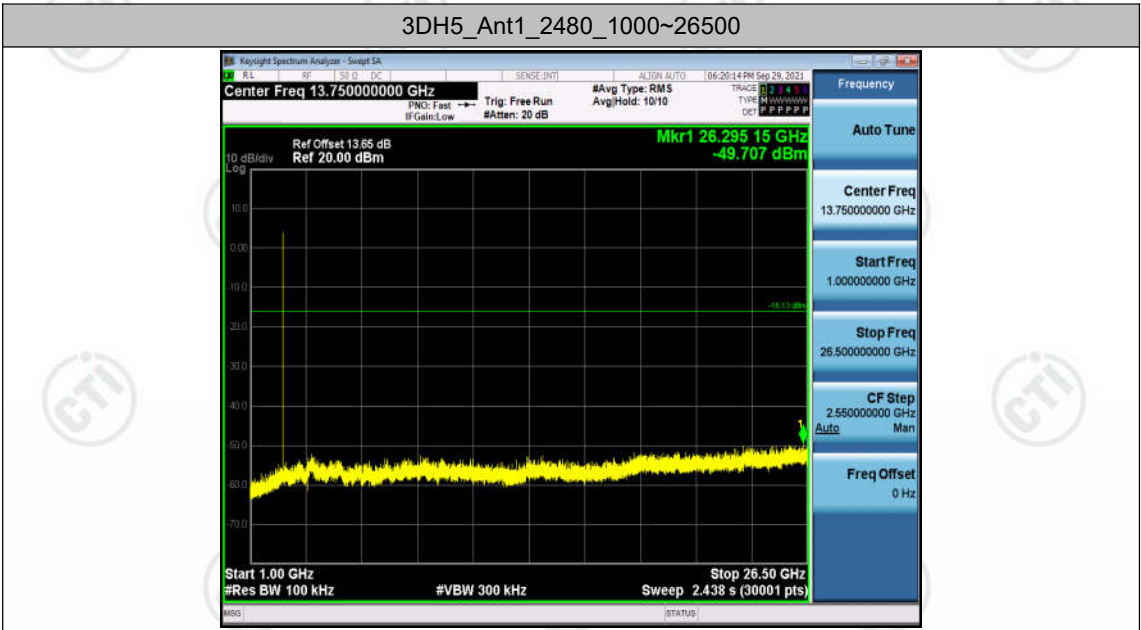


3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



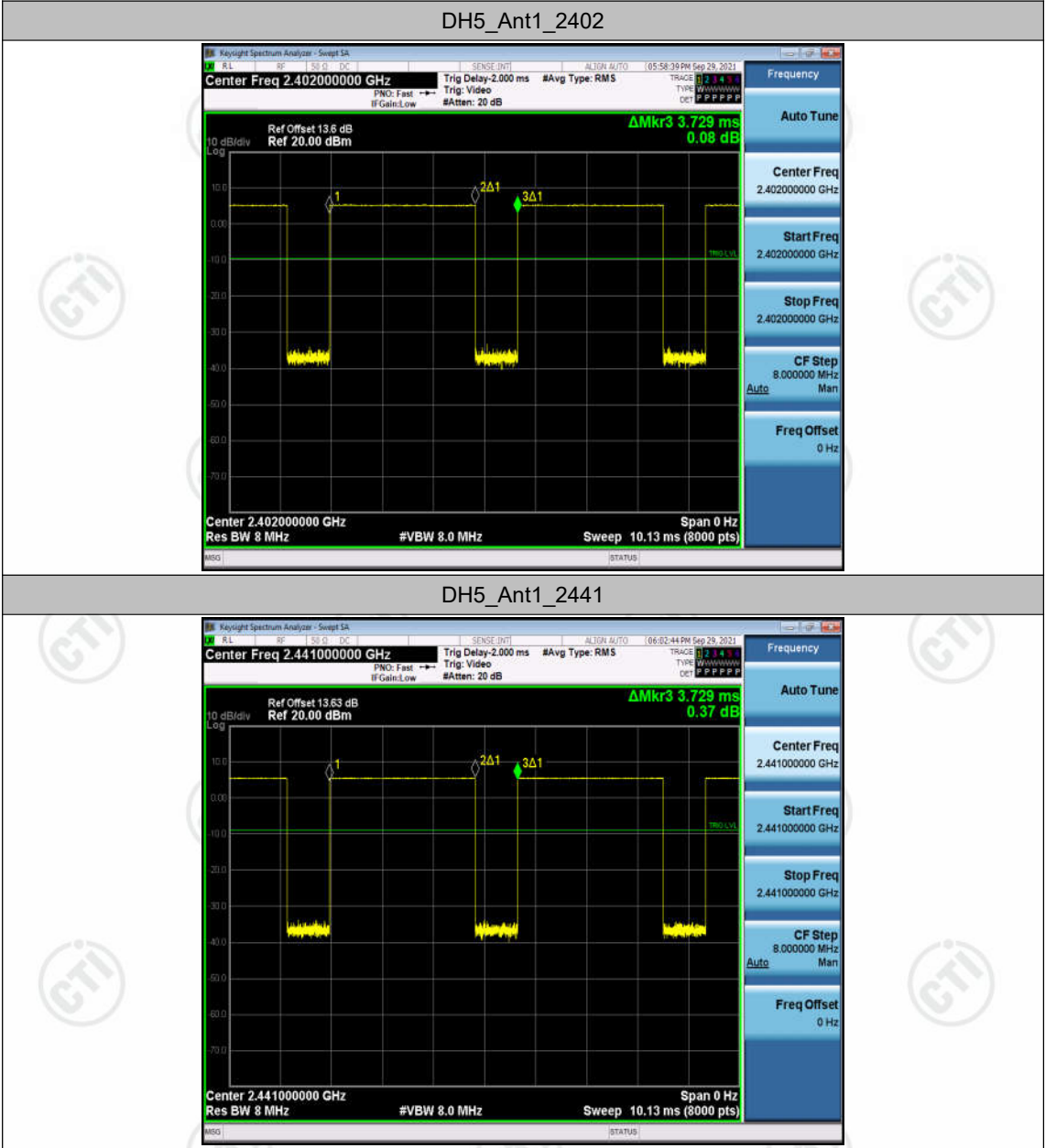


AppendixI: DutyCycle

Test Result

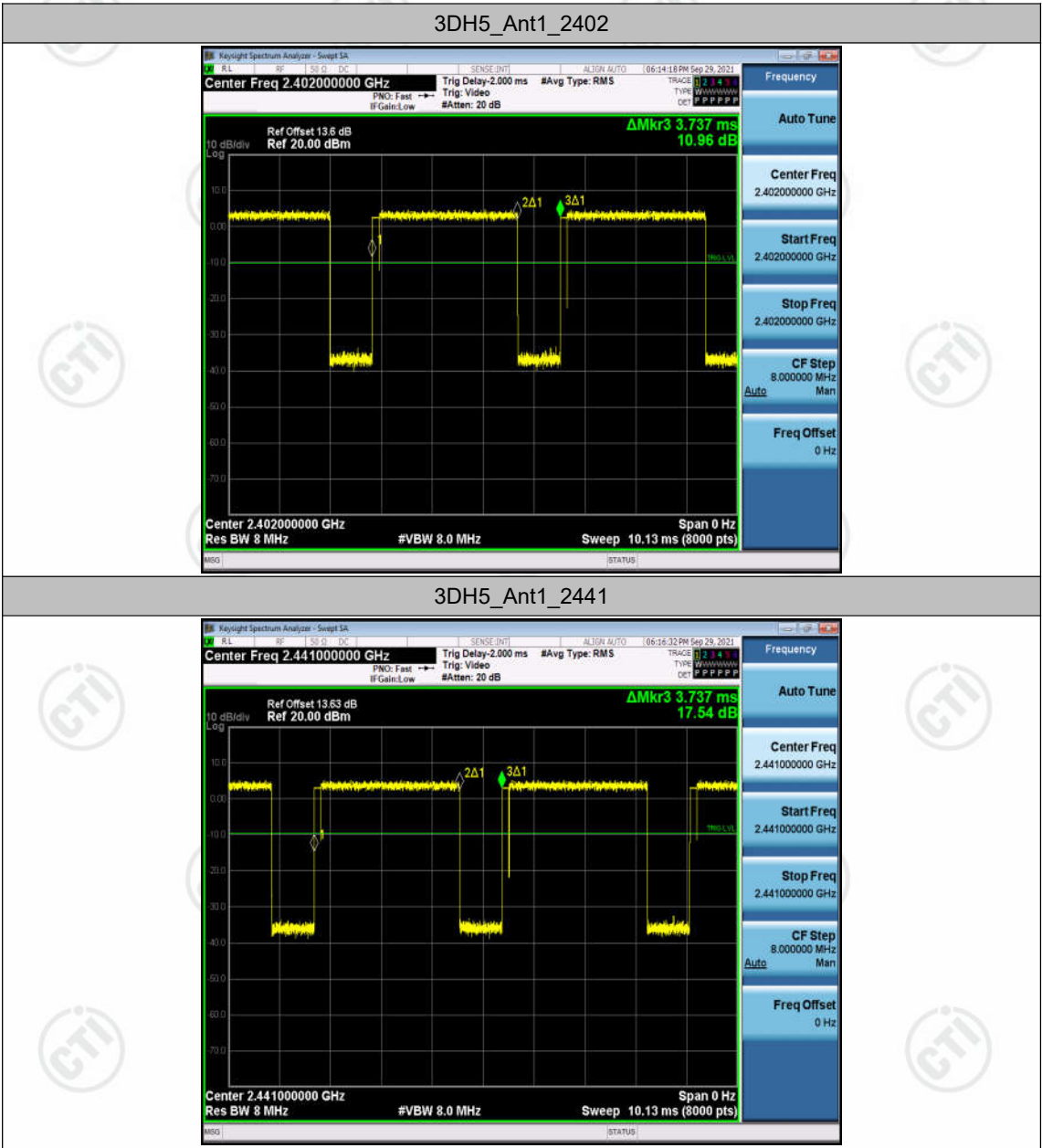
Test Mode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
DH5	Ant1	2402	2.88	3.73	77.28	---	PASS
		2441	2.88	3.73	77.28	---	PASS
		2480	2.88	3.73	77.28	---	PASS
2DH5	Ant1	2402	2.89	3.73	77.31	---	PASS
		2441	2.89	3.73	77.27	---	PASS
		2480	2.89	3.73	77.31	---	PASS
3DH5	Ant1	2402	2.89	3.74	77.29	---	PASS
		2441	2.89	3.74	77.29	---	PASS
		2480	2.89	3.74	77.31	---	PASS

Test Graphs











*** End of Report ***