

Appendix Test Data

Report No.:	18220WC20117801	Test Sample No.:	1-2-2
Start Test Date:	2022.6.1	Finish Test Date:	2022.6.8
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	57.2 %
Pressure:	1012 hPa		

Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.993	2401.511	2402.504	---	PASS
		2441	1.014	2440.490	2441.504	---	PASS
		2480	0.915	2479.541	2480.456	---	PASS
2DH5	Ant1	2402	1.299	2401.382	2402.681	---	PASS
		2441	1.275	2440.400	2441.675	---	PASS
		2480	1.239	2479.406	2480.645	---	PASS
3DH5	Ant1	2402	1.272	2401.364	2402.636	---	PASS
		2441	1.278	2440.358	2441.636	---	PASS
		2480	1.272	2479.373	2480.645	---	PASS

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



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3DH5_Ant1_2480



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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89914	2401.561	2402.460	---	PASS
		2441	0.89313	2440.561	2441.454	---	PASS
		2480	0.90003	2479.553	2480.453	---	PASS
2DH5	Ant1	2402	1.1894	2401.431	2402.621	---	PASS
		2441	1.1873	2440.429	2441.616	---	PASS
		2480	1.1876	2479.427	2480.615	---	PASS
3DH5	Ant1	2402	1.1924	2401.430	2402.622	---	PASS
		2441	1.1939	2440.423	2441.617	---	PASS
		2480	1.1861	2479.417	2480.603	---	PASS

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441

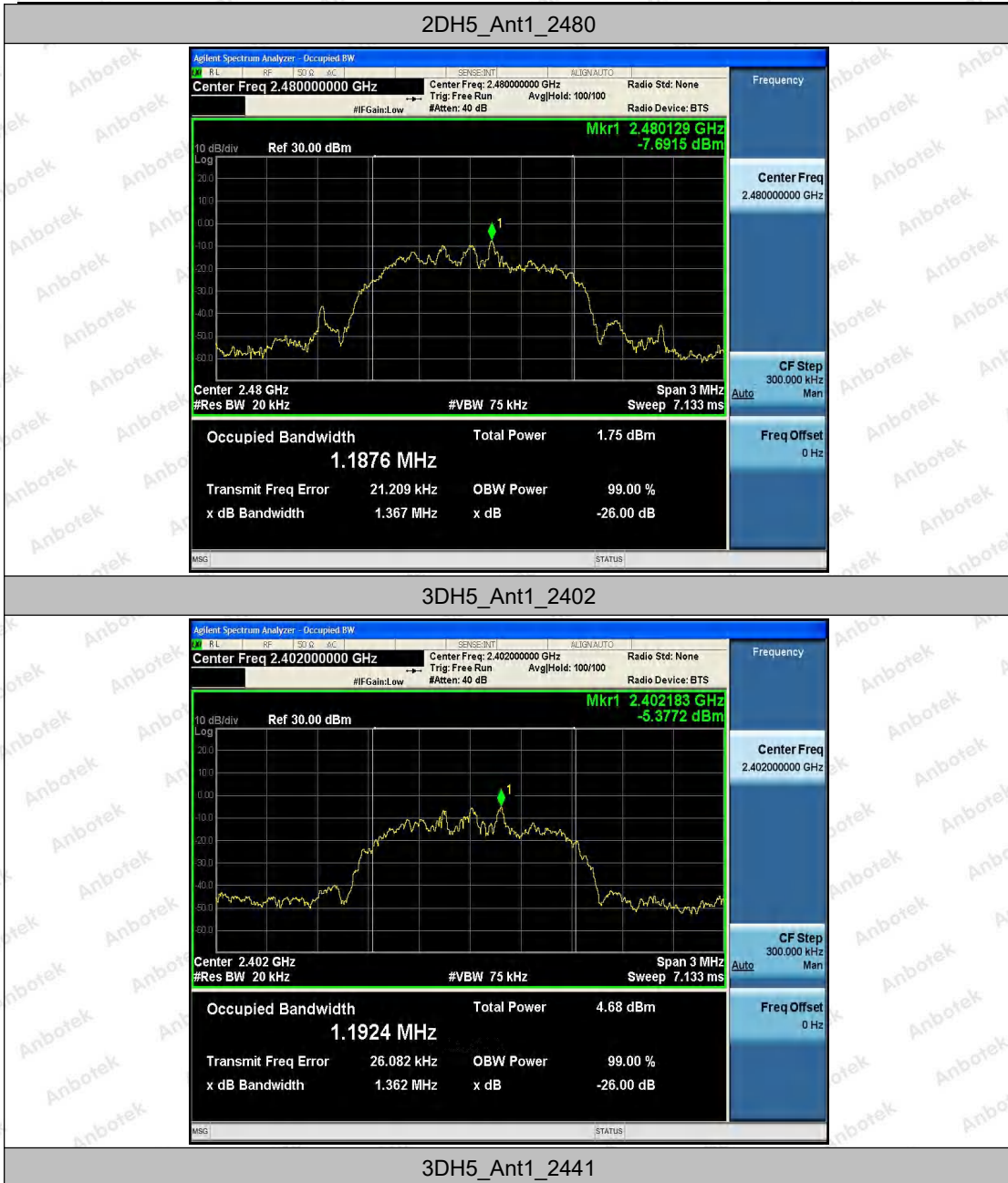


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3DH5_Ant1_2480



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Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.4	≤20.97	PASS
		2441	-2.01	≤20.97	PASS
		2480	-3.64	≤20.97	PASS
2DH5	Ant1	2402	-0.41	≤20.97	PASS
		2441	-1.98	≤20.97	PASS
		2480	-3.71	≤20.97	PASS
3DH5	Ant1	2402	-0.36	≤20.97	PASS
		2441	-2.02	≤20.97	PASS
		2480	-3.67	≤20.97	PASS

Test Graphs



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2DH5_Ant1_2402



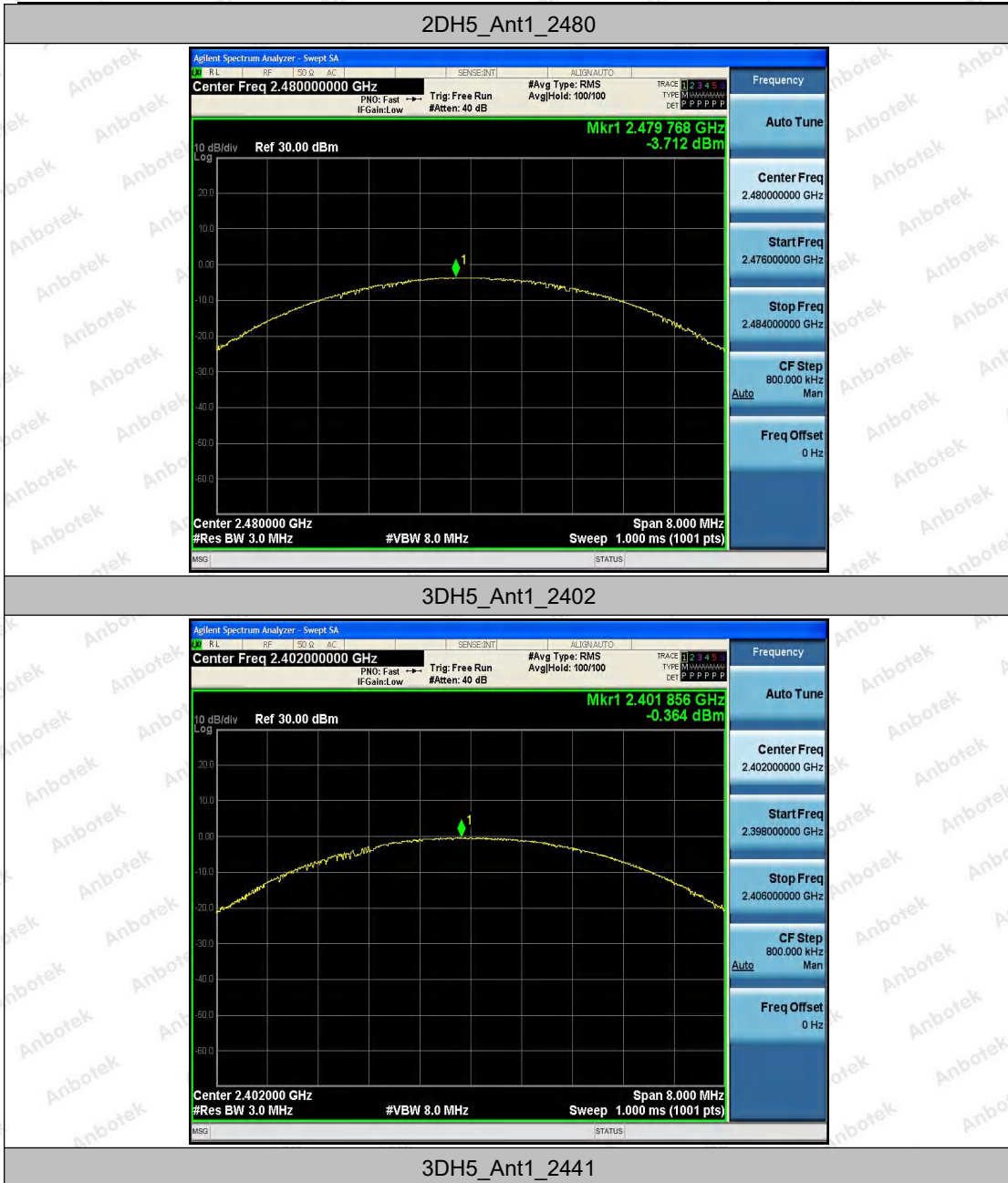
2DH5_Ant1_2441



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3DH5_Ant1_2480



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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.006	≥0.676	PASS
2DH5	Ant1	Hop	1.018	≥0.866	PASS
3DH5	Ant1	Hop	0.96	≥0.852	PASS

Test Graphs



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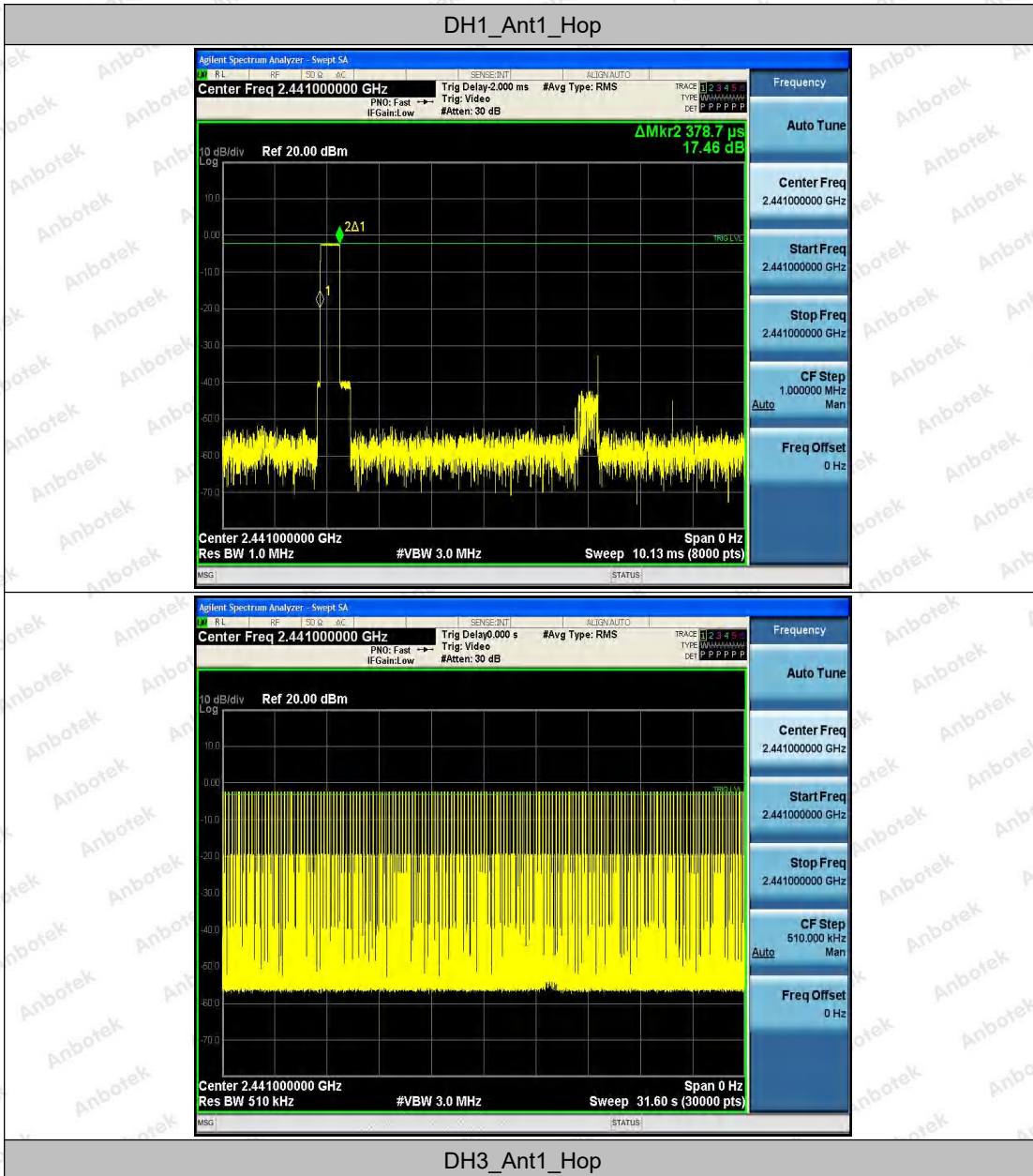
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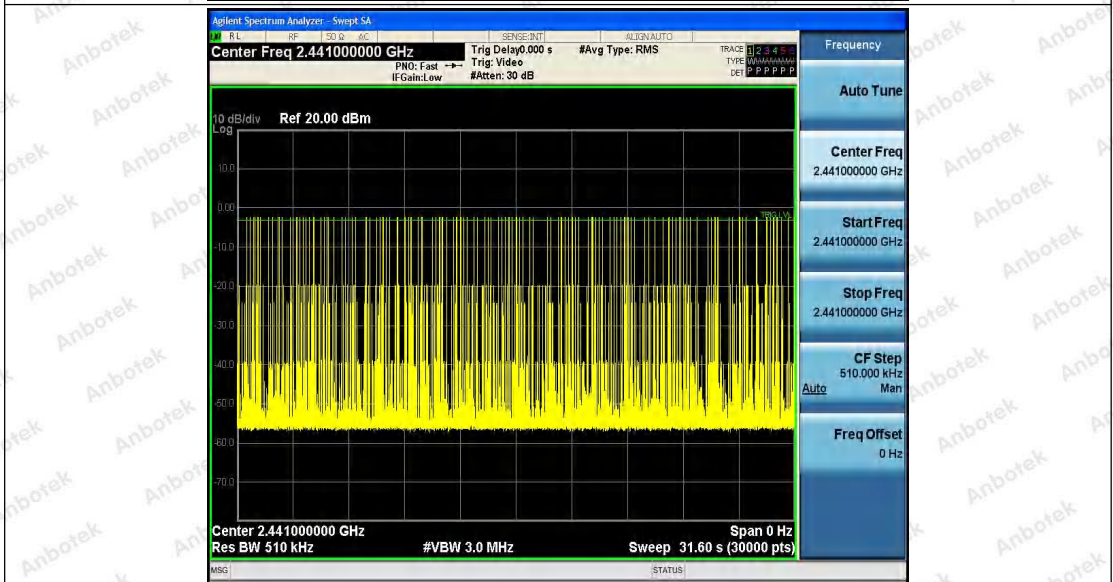
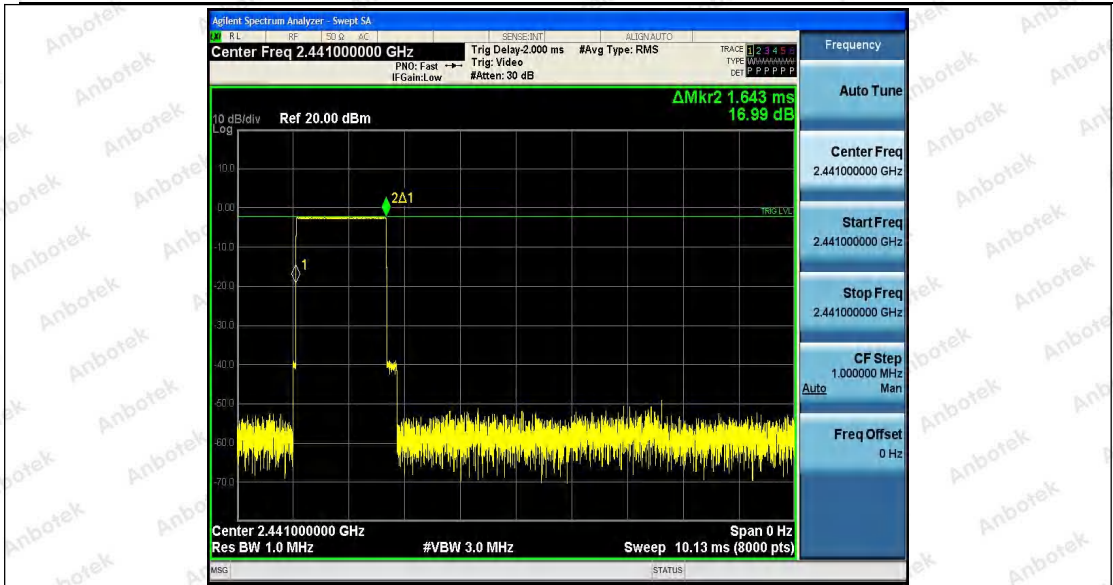
Appendix E: Time of occupancy

Test Result

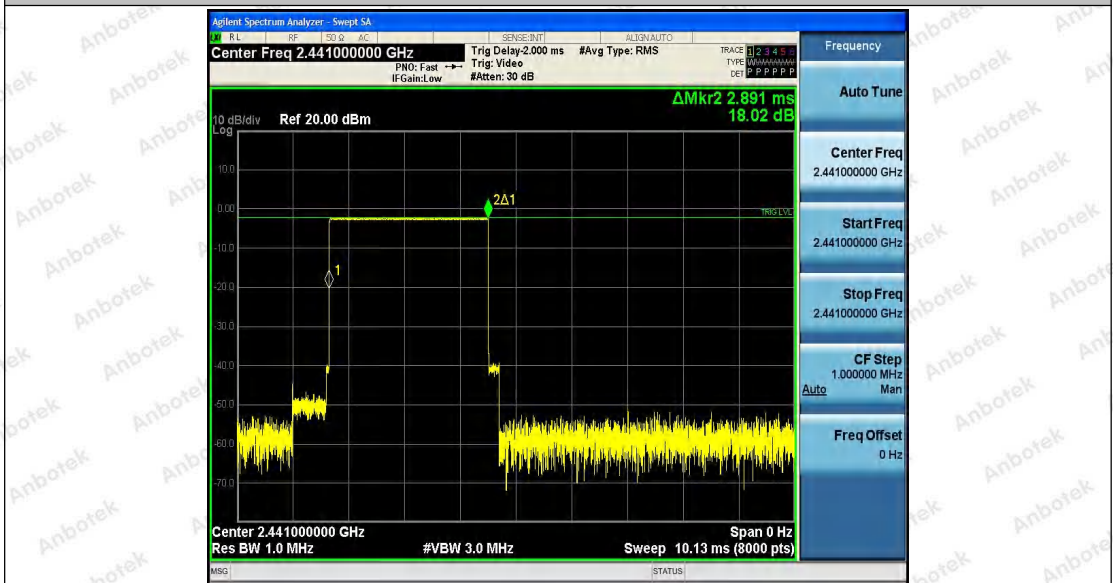
Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	311	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.64	142	0.233	≤0.4	PASS
DH5	Ant1	Hop	2.89	111	0.321	≤0.4	PASS
2DH1	Ant1	Hop	0.39	311	0.12	≤0.4	PASS
2DH3	Ant1	Hop	1.64	176	0.288	≤0.4	PASS
2DH5	Ant1	Hop	2.89	119	0.343	≤0.4	PASS
3DH1	Ant1	Hop	0.39	311	0.12	≤0.4	PASS
3DH3	Ant1	Hop	1.64	173	0.283	≤0.4	PASS
3DH5	Ant1	Hop	2.89	105	0.303	≤0.4	PASS

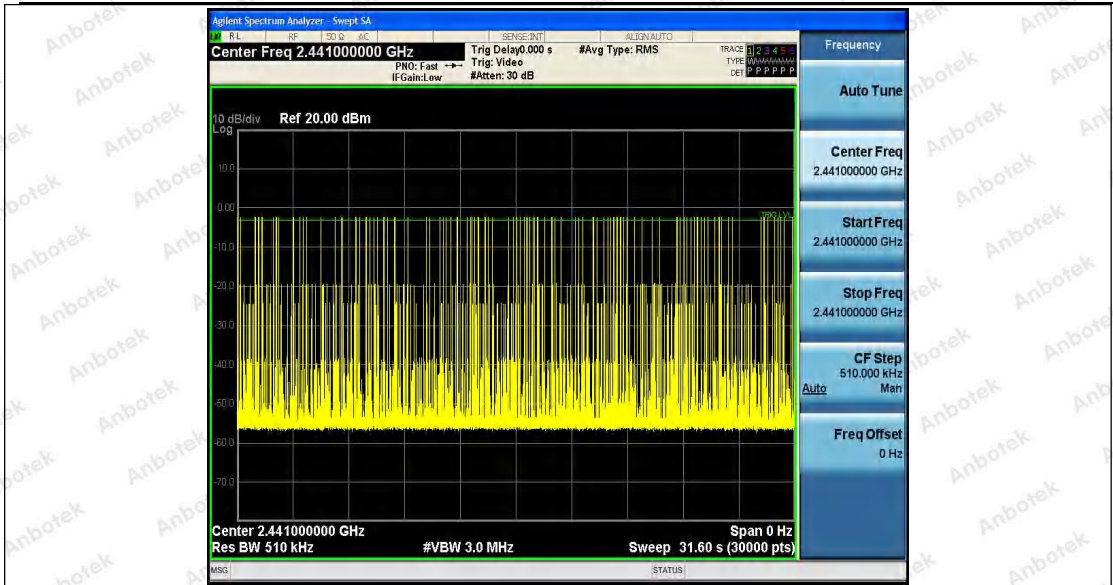
Test Graphs



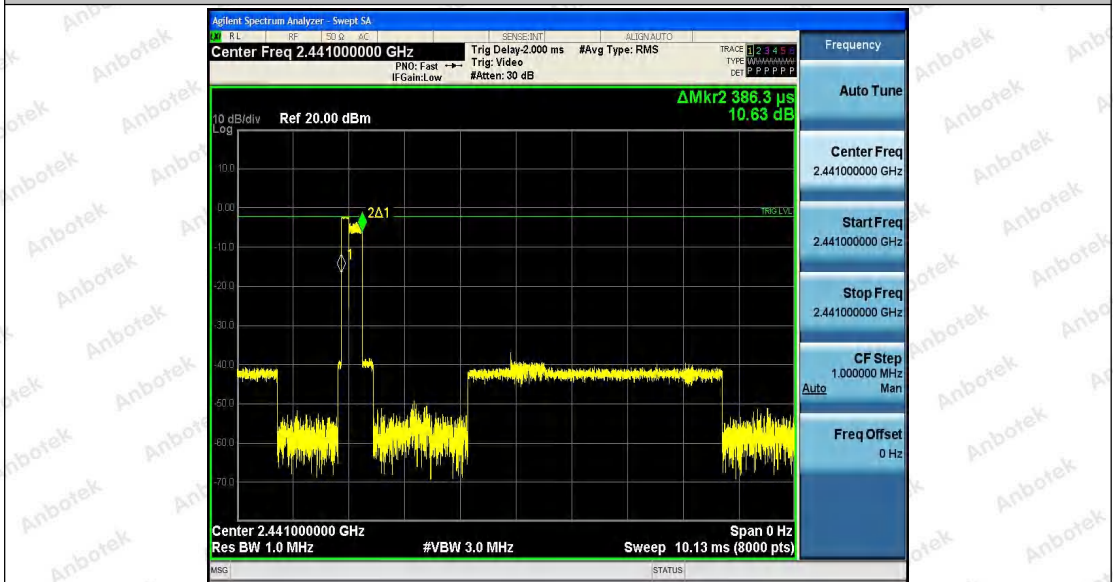


DH5_Ant1_Hop

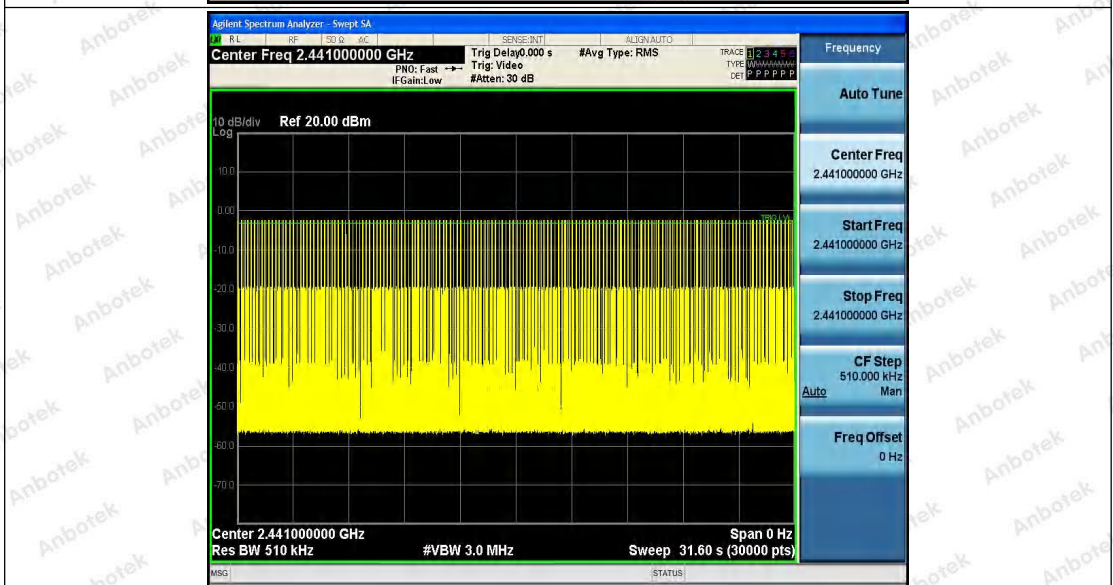




2DH1_Ant1_Hop



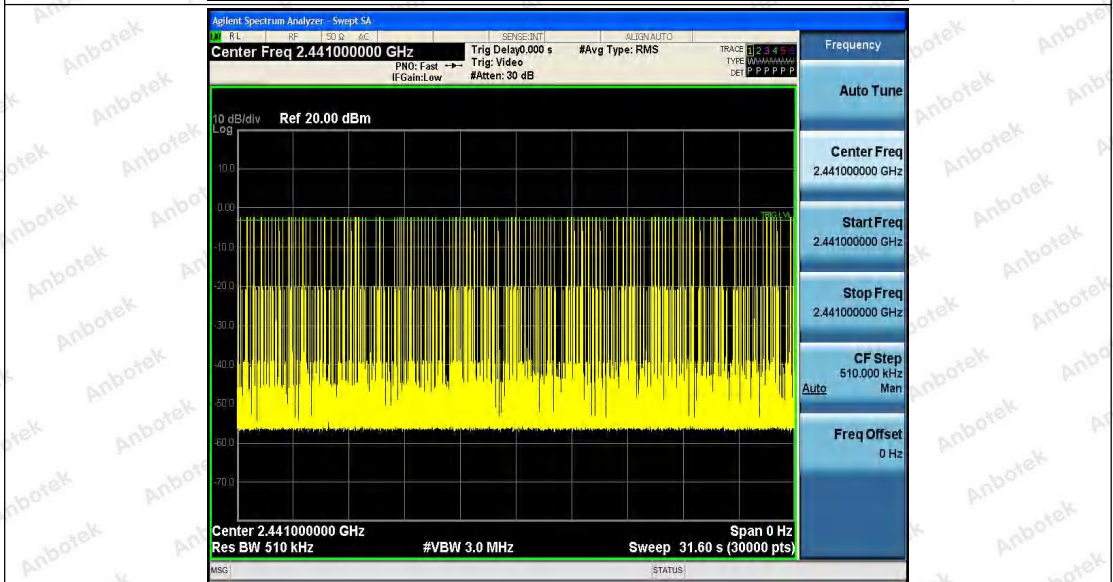
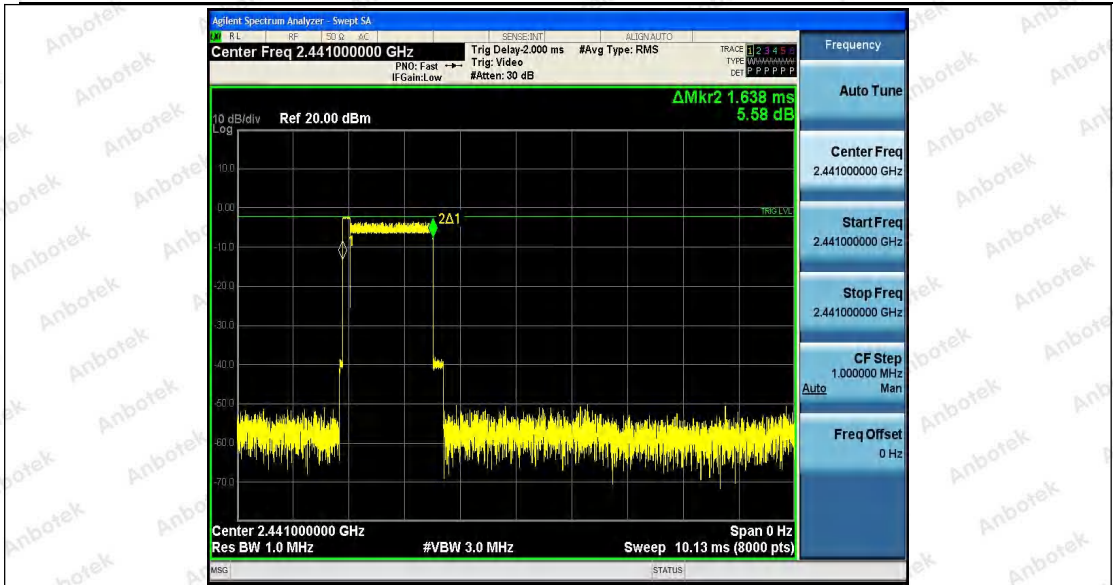
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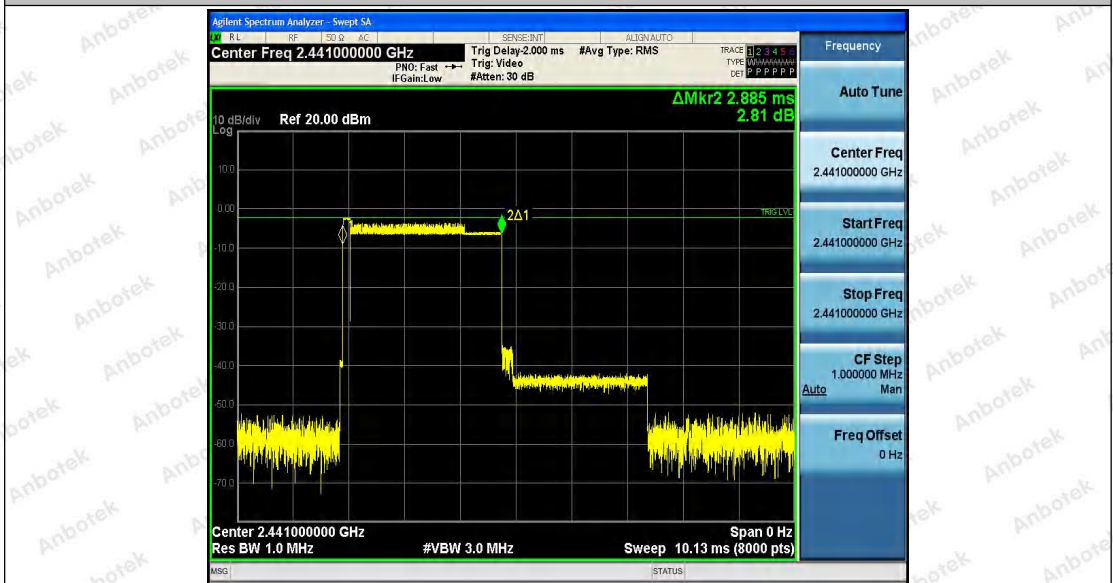
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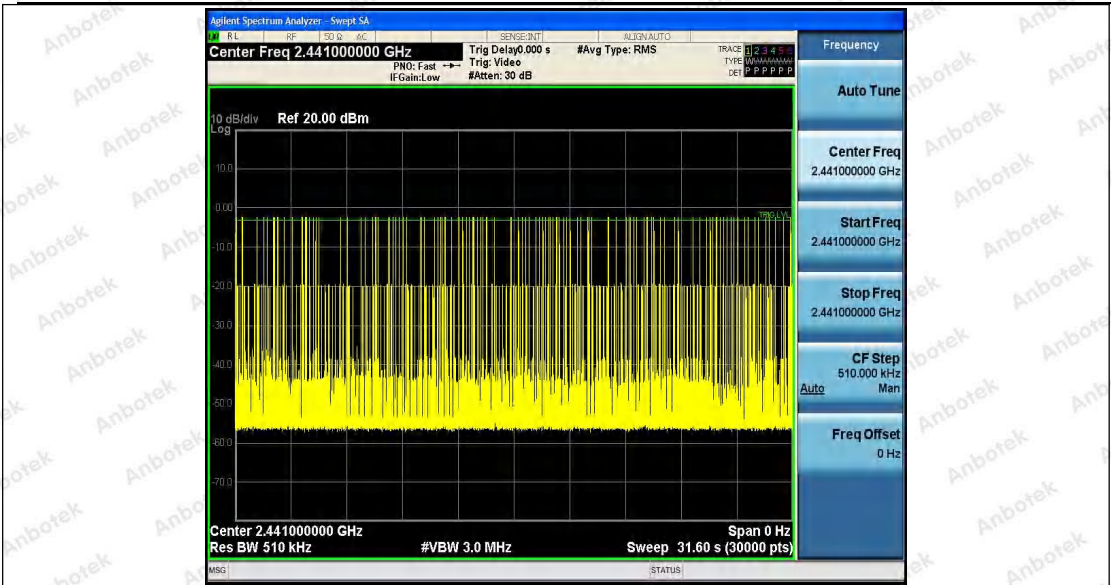
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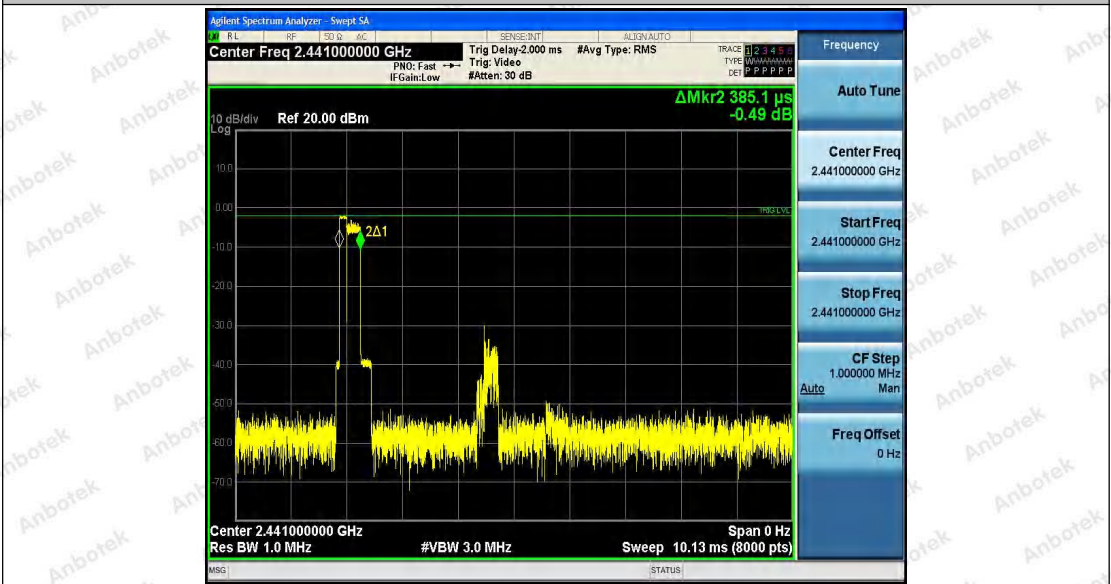
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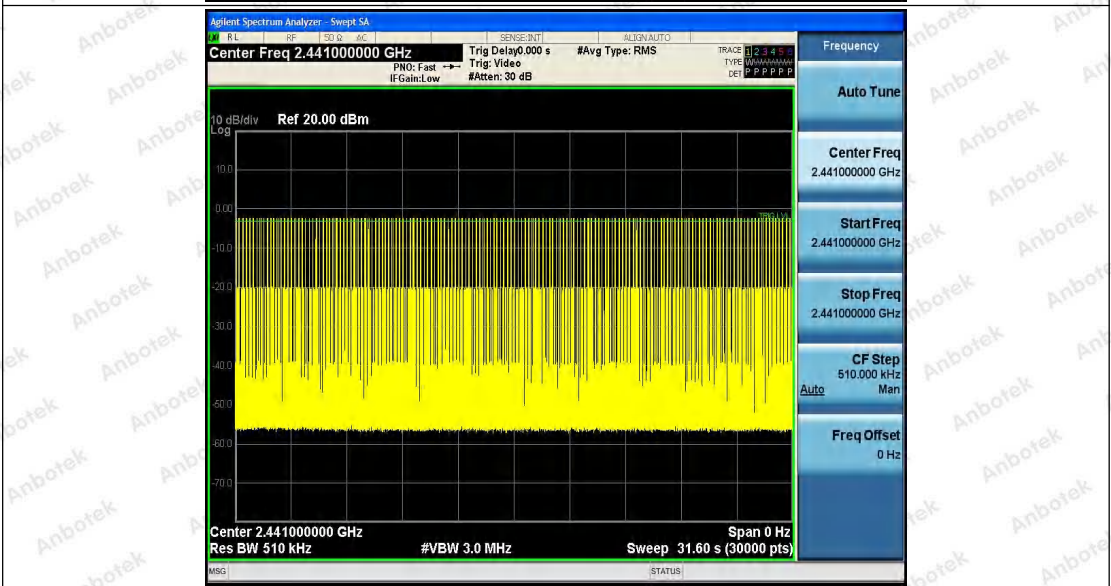
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3DH1_Ant1_Hop



3DH1_Ant1_Hop



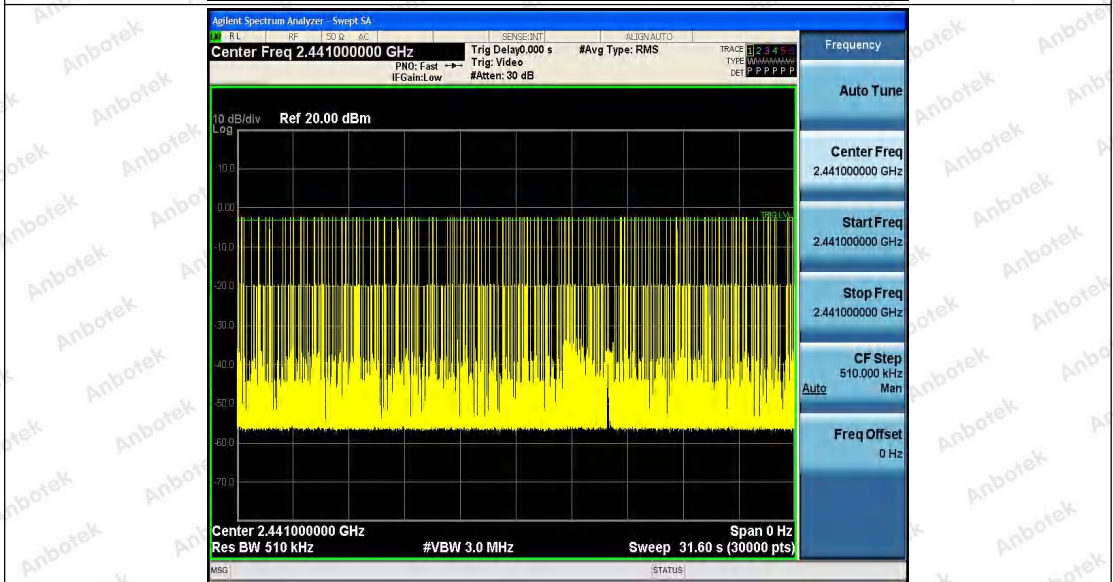
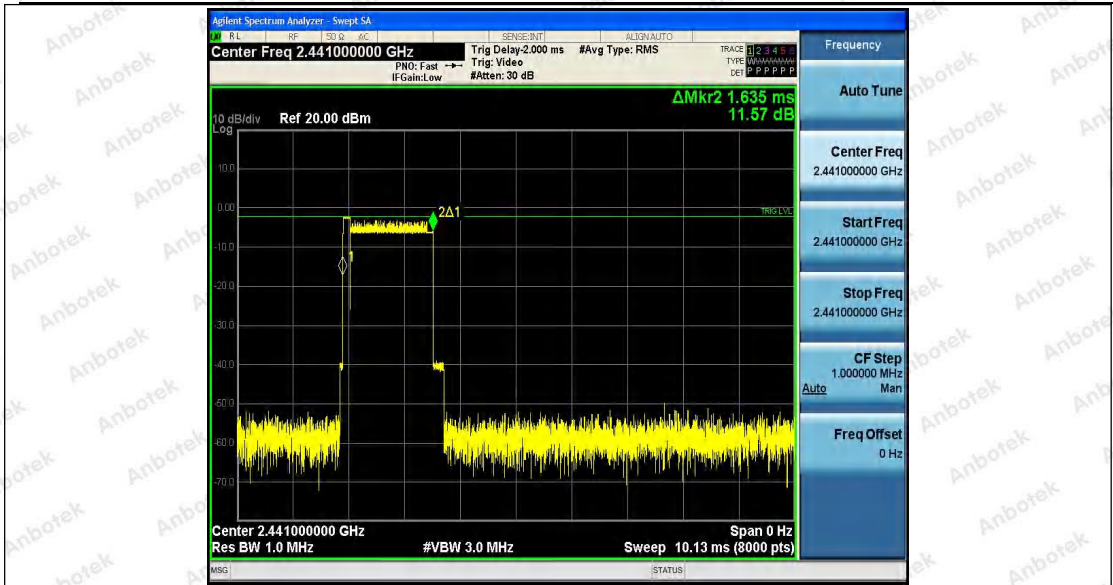
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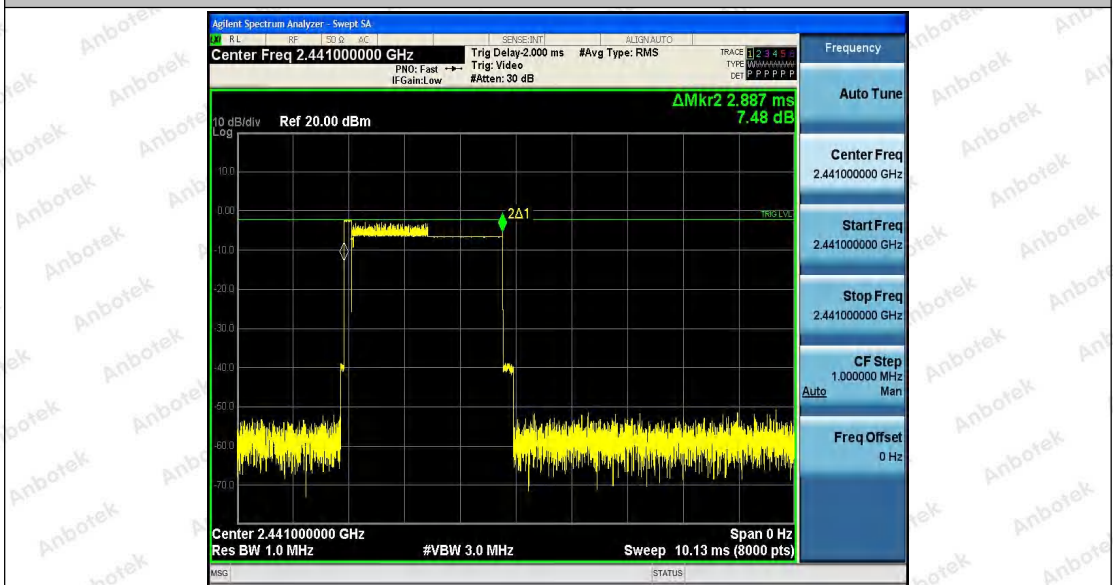
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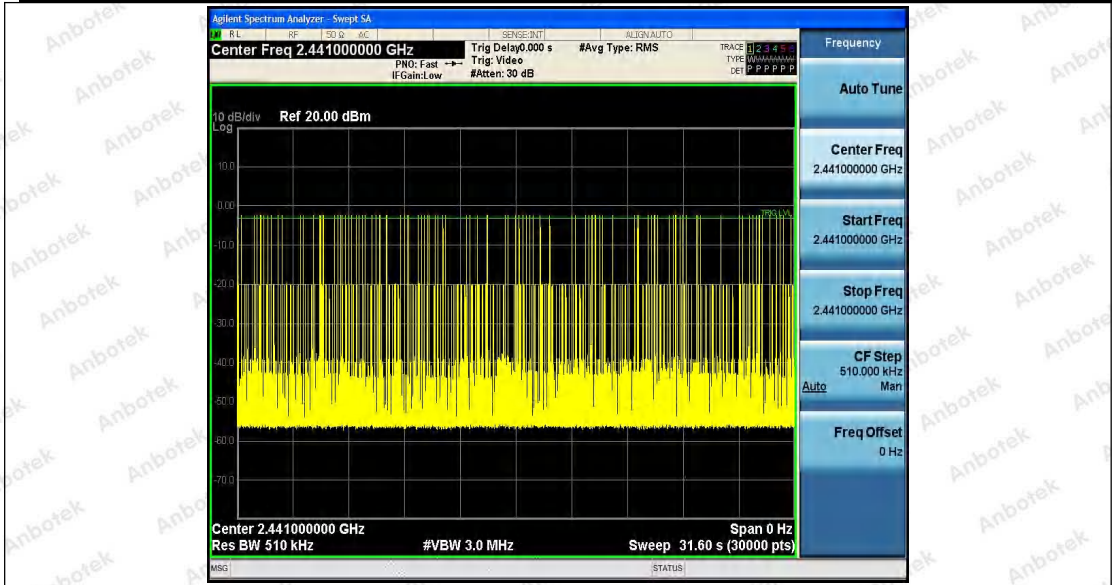
3DH5_Ant1_Hop



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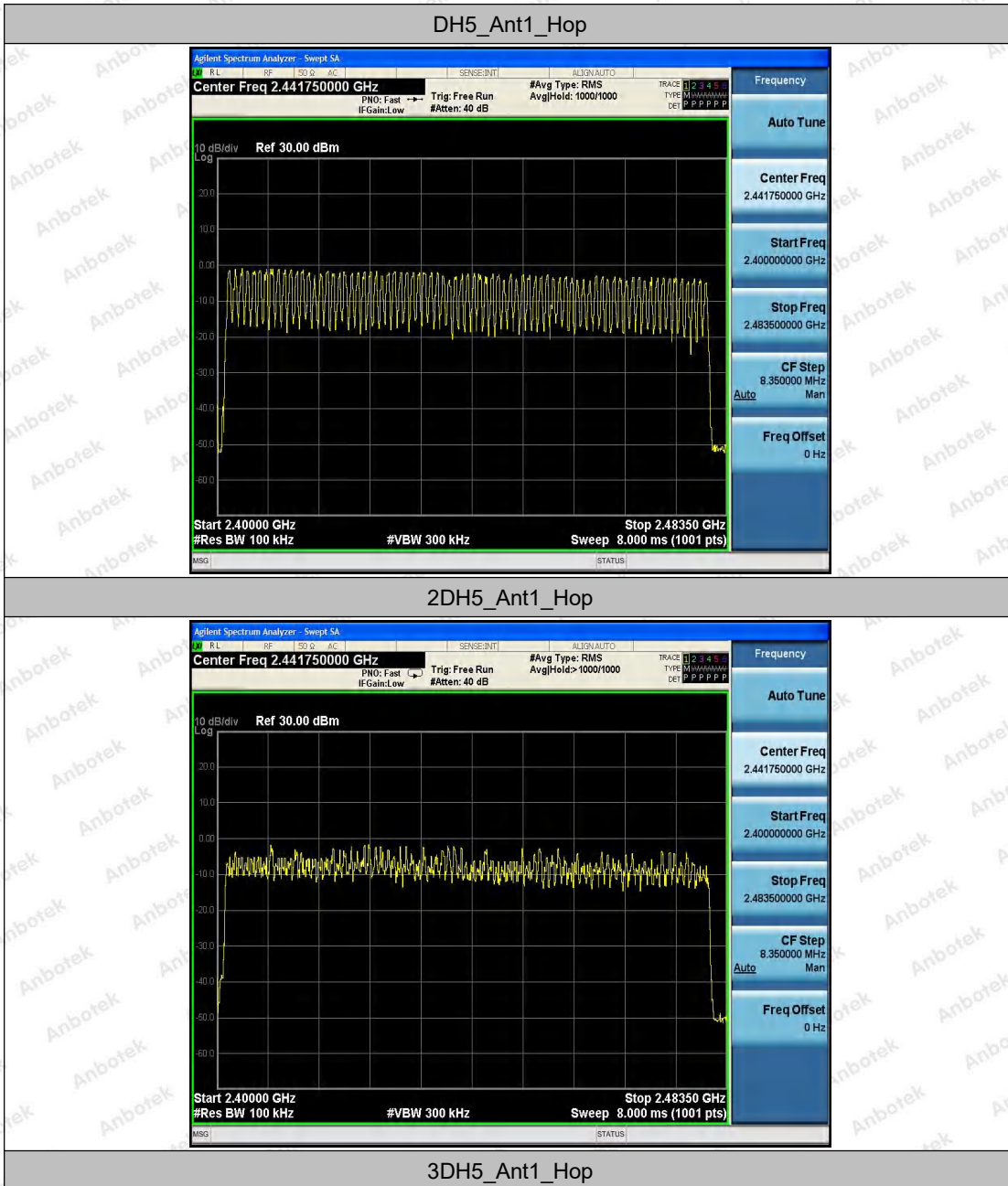
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Appendix F: Number of hopping channels

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

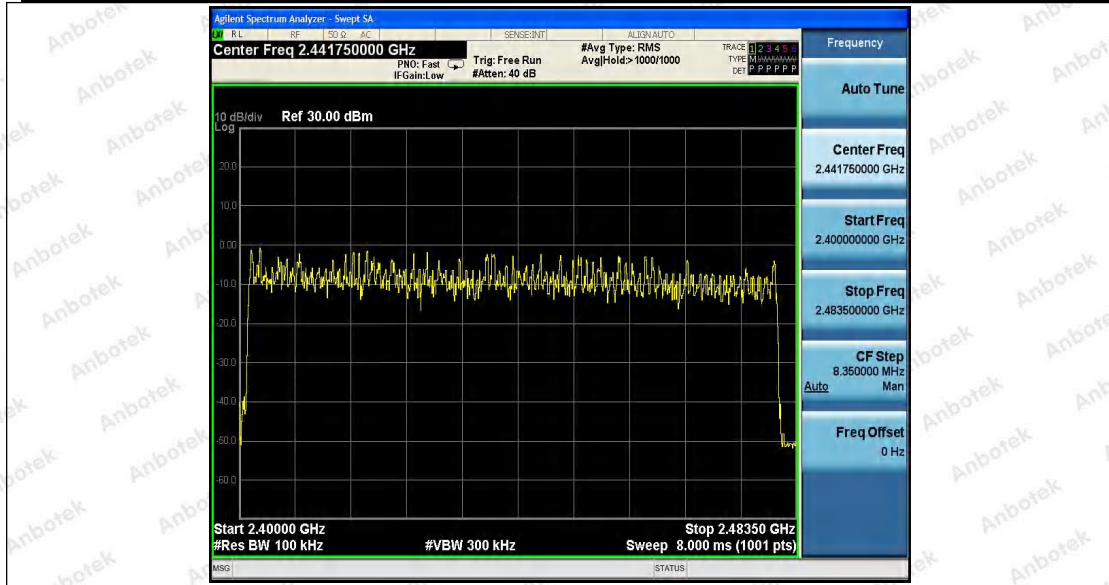
Test Graphs



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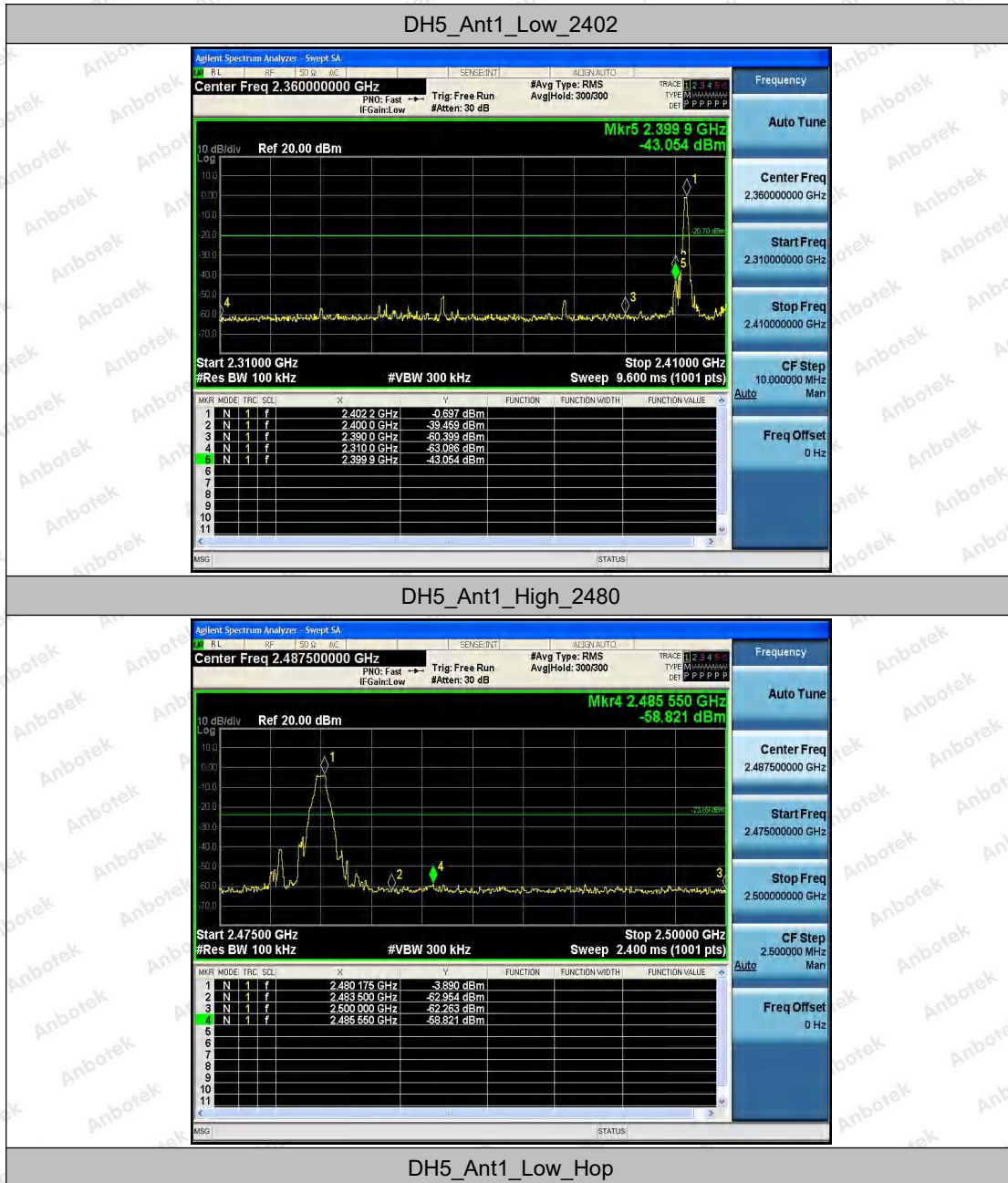
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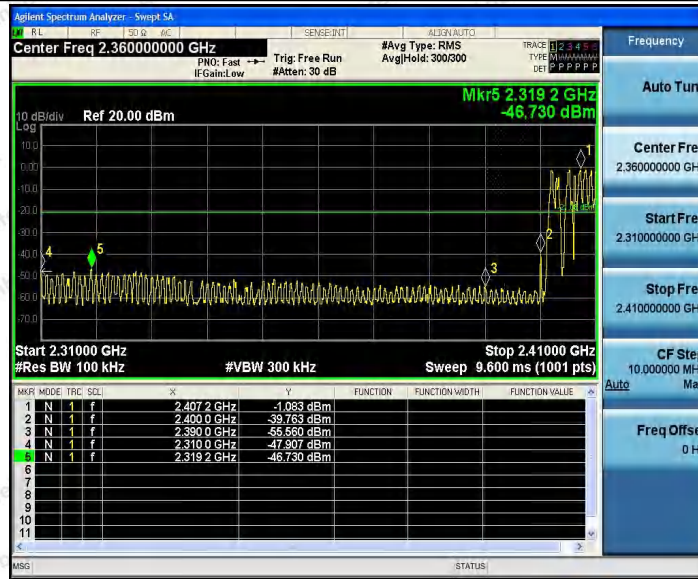
Appendix G: Band edge measurements

Test Result

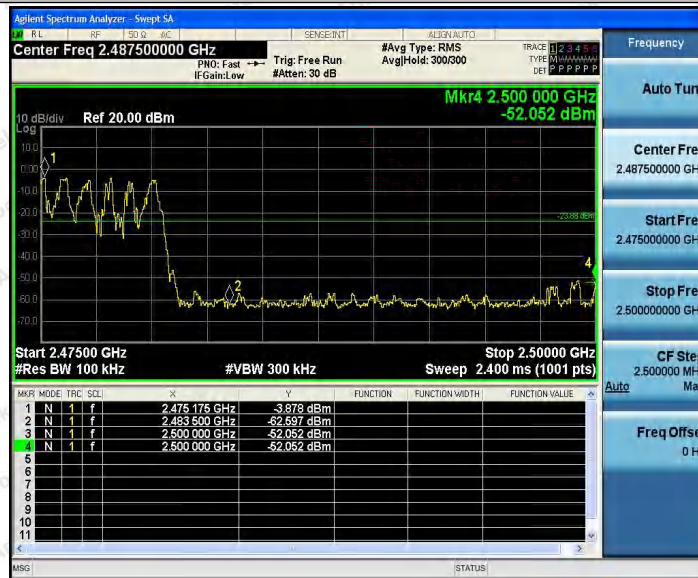
Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.70	-43.05	≤-20.7	PASS
		High	2480	-3.89	-58.82	≤-23.89	PASS
		Low	Hop	-1.08	-46.73	≤-21.08	PASS
		High	Hop	-3.88	-52.05	≤-23.88	PASS
2DH5	Ant1	Low	2402	-1.42	-41.85	≤-21.42	PASS
		High	2480	-4.02	-59.89	≤-24.02	PASS
		Low	Hop	-5.27	-47.51	≤-25.27	PASS
		High	Hop	-7.43	-60.8	≤-27.43	PASS
3DH5	Ant1	Low	2402	-0.70	-43.56	≤-20.7	PASS
		High	2480	-3.96	-59.68	≤-23.96	PASS
		Low	Hop	-1.44	-48.11	≤-21.44	PASS
		High	Hop	-5.21	-55.34	≤-25.21	PASS

Test Graphs

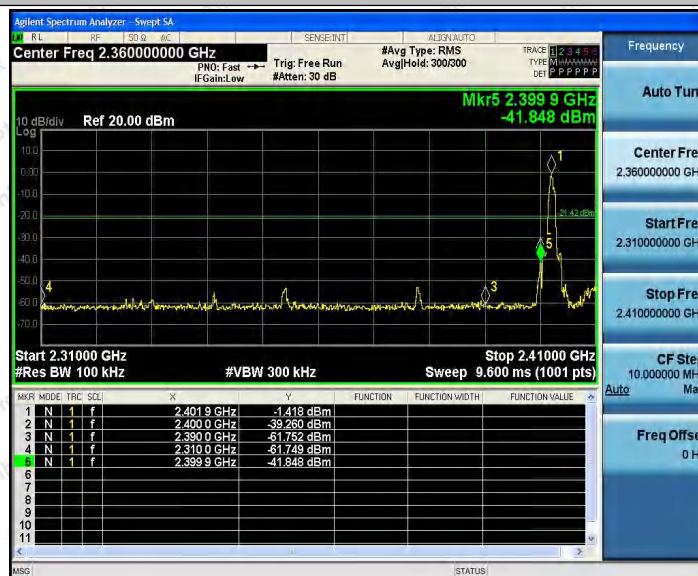




DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402

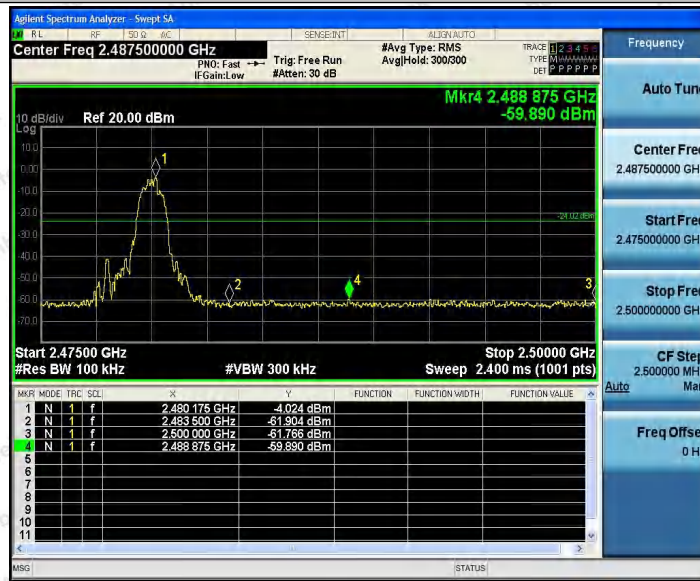


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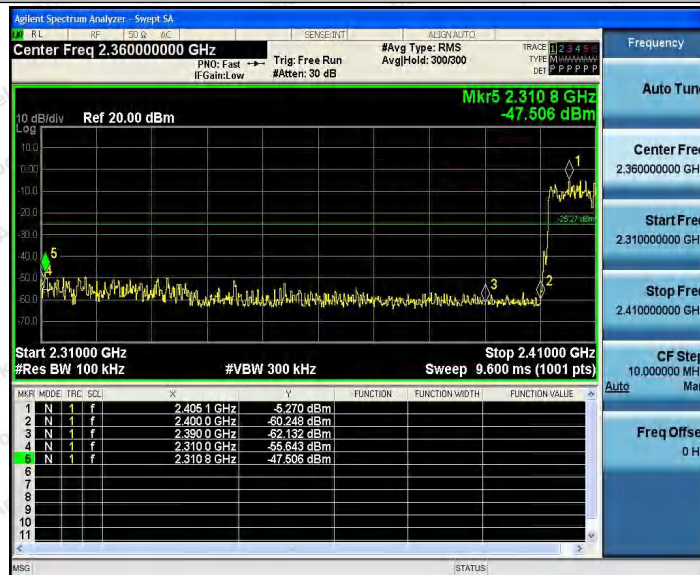
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



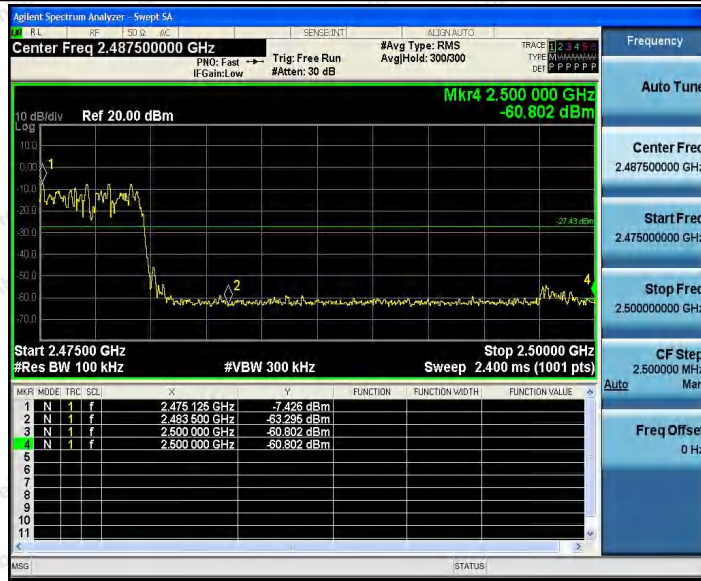
2DH5_Ant1_High_Hop

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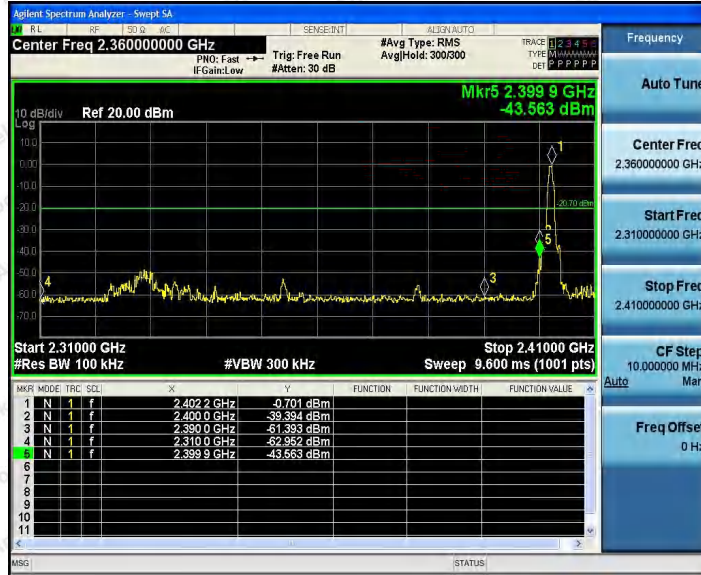
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3DH5_Ant1_Low_2402



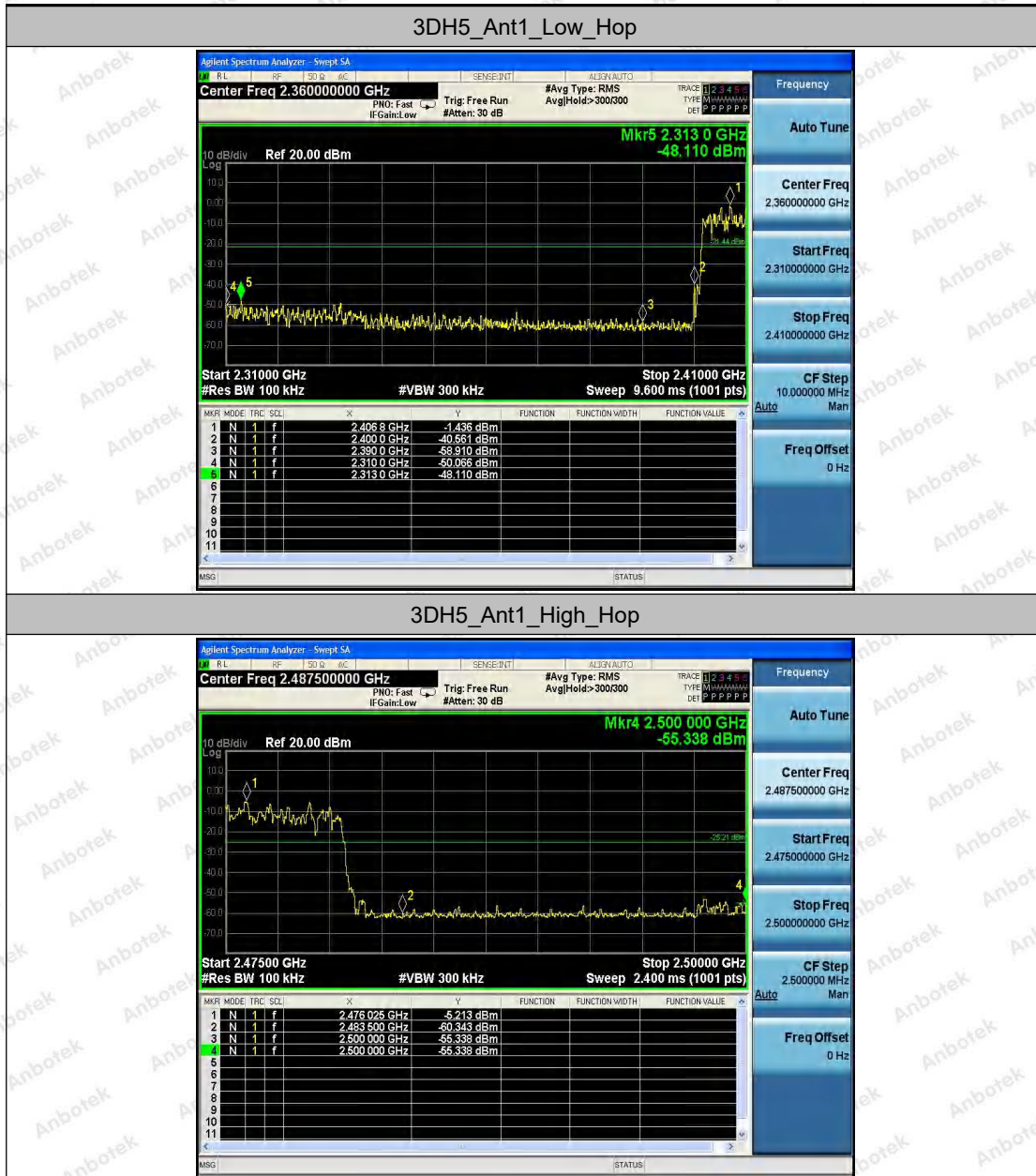
3DH5_Ant1_High_2480



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Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.82	-0.82	---	PASS
			30~1000	-0.82	-57.94	≤-20.82	PASS
			1000~26500	-0.82	-27.87	≤-20.82	PASS
		2441	Reference	-2.38	-2.38	---	PASS
			30~1000	-2.38	-58.02	≤-22.38	PASS
			1000~26500	-2.38	-32.14	≤-22.38	PASS
		2480	Reference	-4.00	-4.00	---	PASS
			30~1000	-4.00	-60.21	≤-24	PASS
			1000~26500	-4.00	-36.53	≤-24	PASS
2DH5	Ant1	2402	Reference	-0.71	-0.71	---	PASS
			30~1000	-0.71	-59.17	≤-20.71	PASS
			1000~26500	-0.71	-35.06	≤-20.71	PASS
		2441	Reference	-2.38	-2.38	---	PASS
			30~1000	-2.38	-61.1	≤-22.38	PASS
			1000~26500	-2.38	-33.74	≤-22.38	PASS
		2480	Reference	-4.43	-4.43	---	PASS
			30~1000	-4.43	-63.1	≤-24.43	PASS
			1000~26500	-4.43	-37.26	≤-24.43	PASS
3DH5	Ant1	2402	Reference	-1.80	-1.80	---	PASS
			30~1000	-1.80	-59.49	≤-21.8	PASS
			1000~26500	-1.80	-28.37	≤-21.8	PASS
		2441	Reference	-2.30	-2.30	---	PASS
			30~1000	-2.30	-60.62	≤-22.3	PASS
			1000~26500	-2.30	-32.07	≤-22.3	PASS
		2480	Reference	-4.01	-4.01	---	PASS
			30~1000	-4.01	-59.49	≤-24.01	PASS
			1000~26500	-4.01	-41.56	≤-24.01	PASS

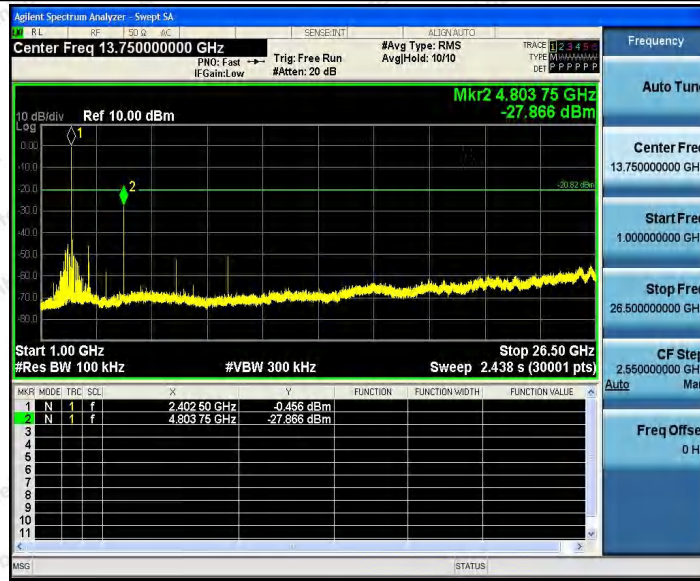
Test Graphs



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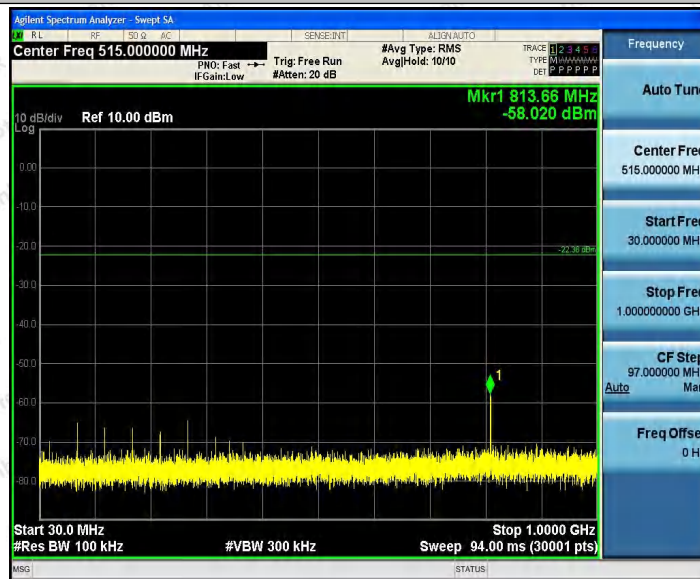
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DH5_Ant1_2441_0~Reference



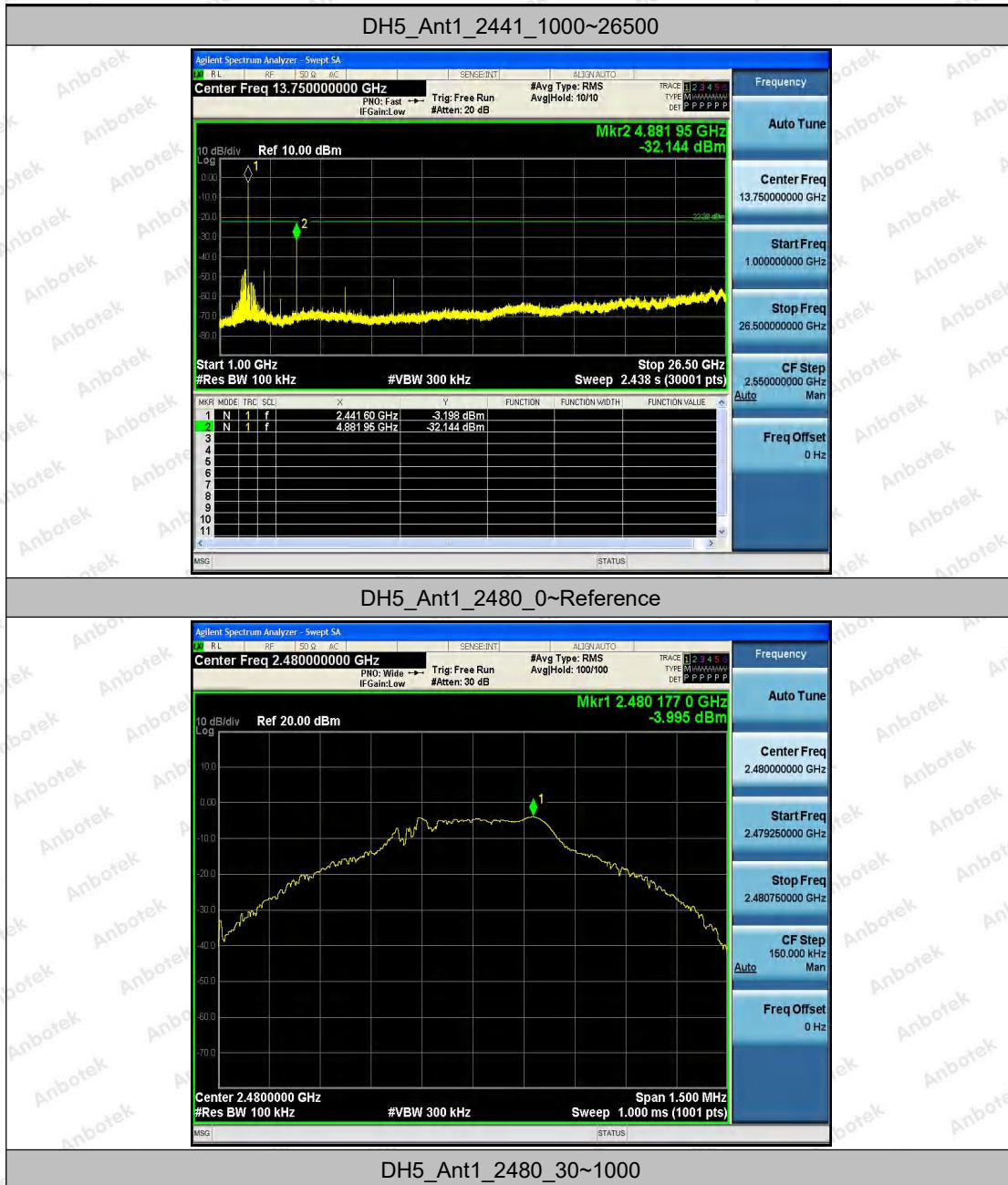
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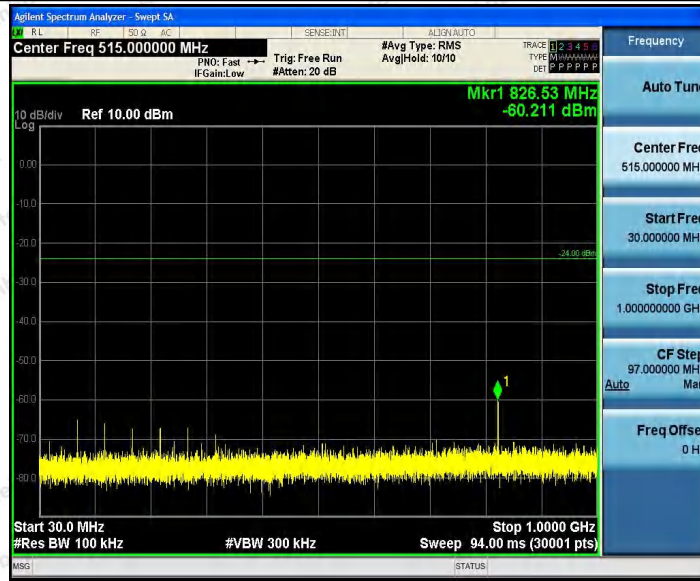
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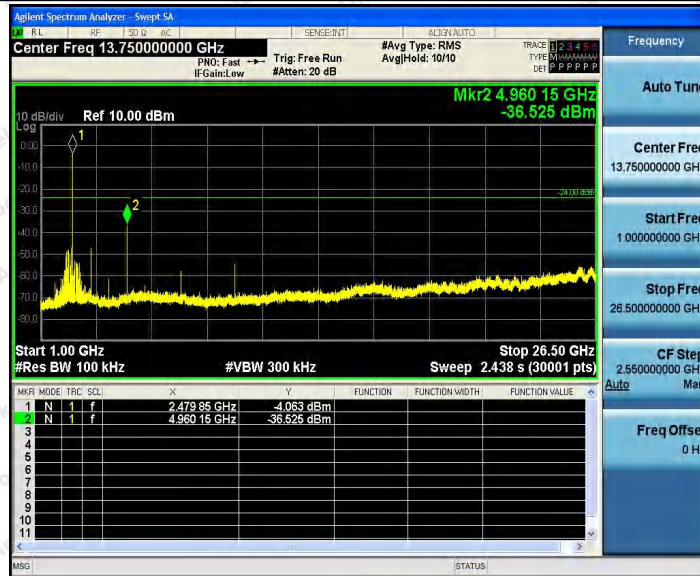
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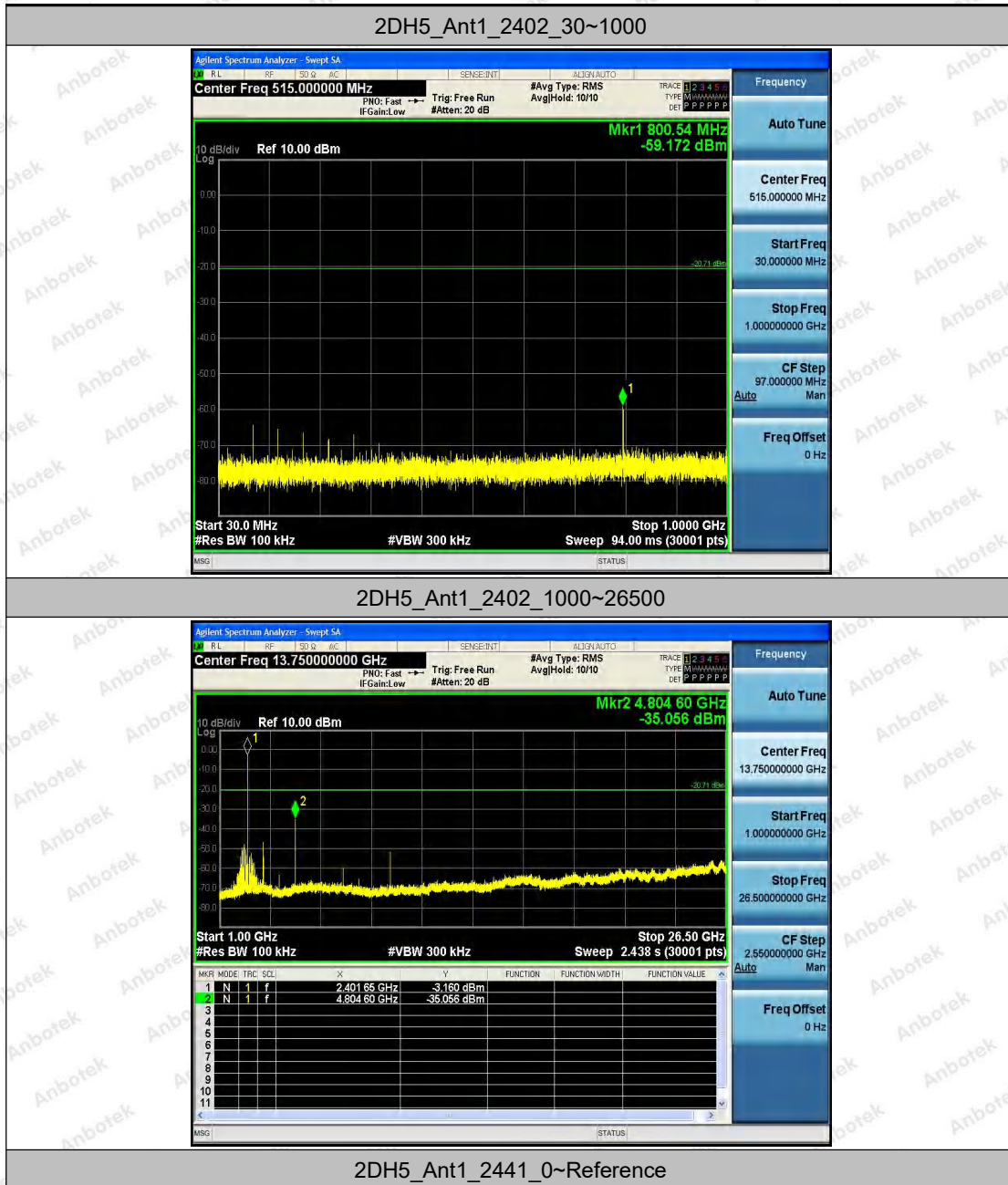
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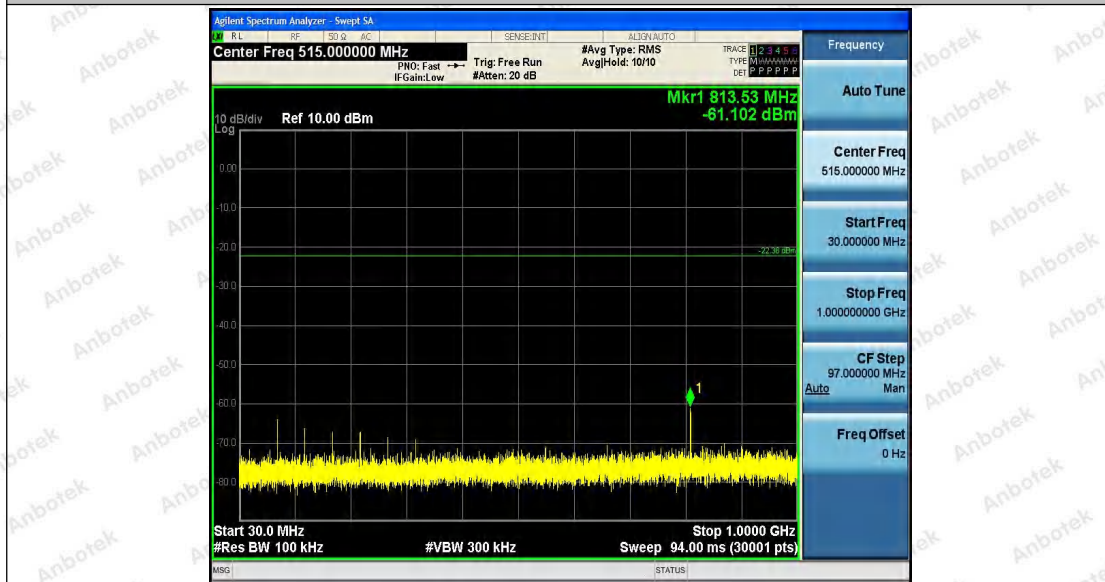
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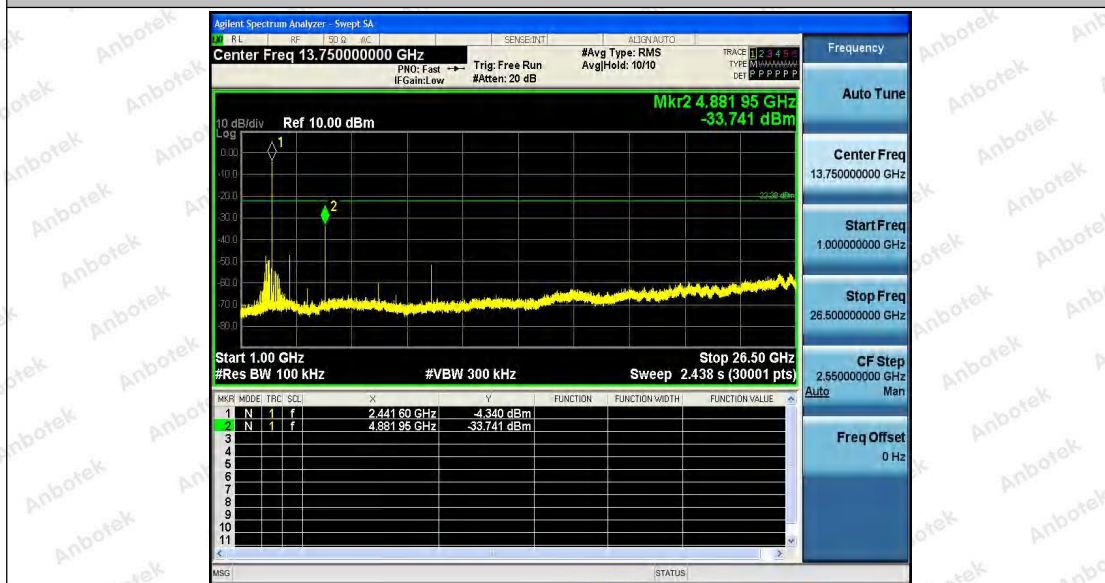
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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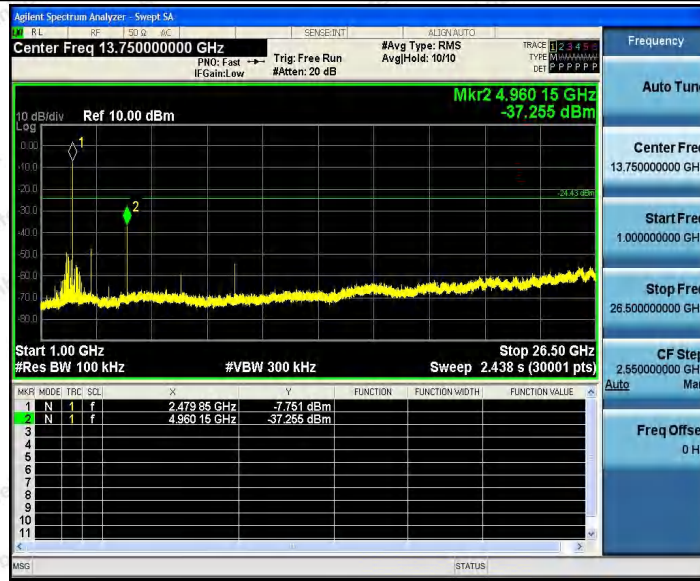
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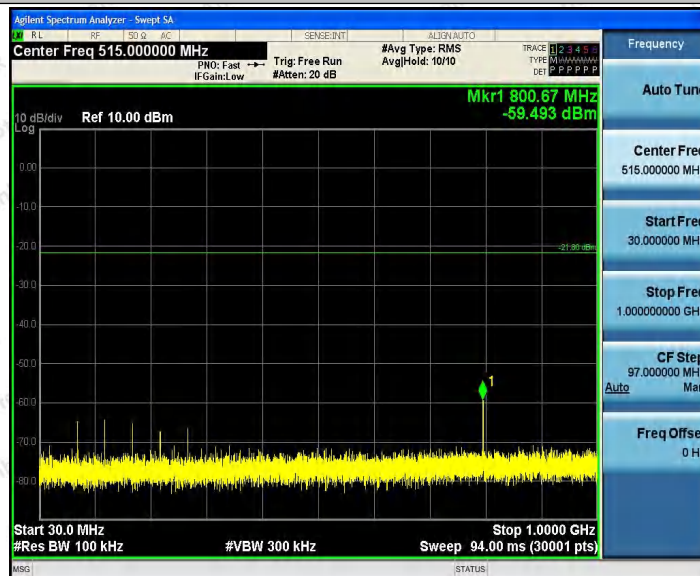
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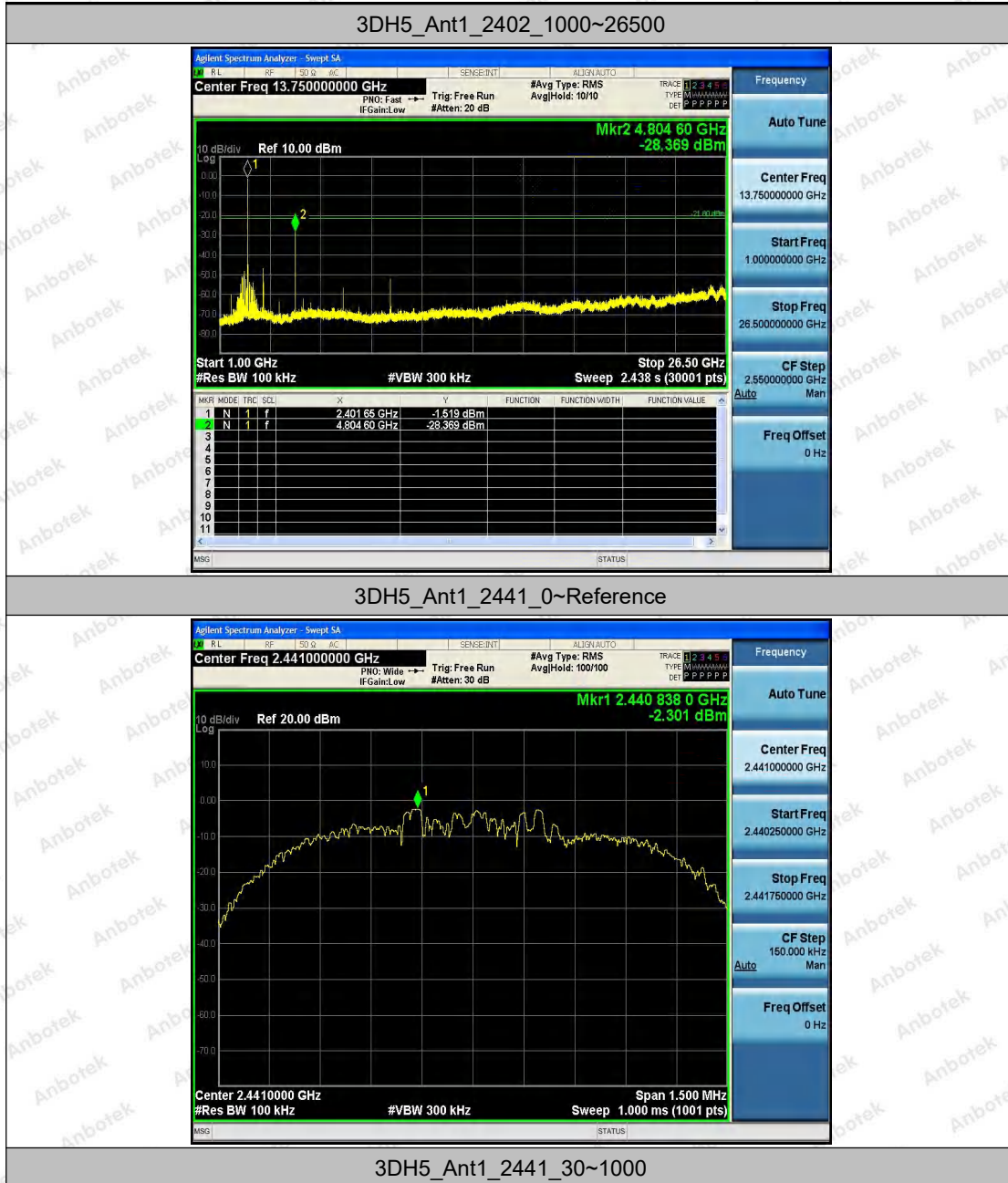
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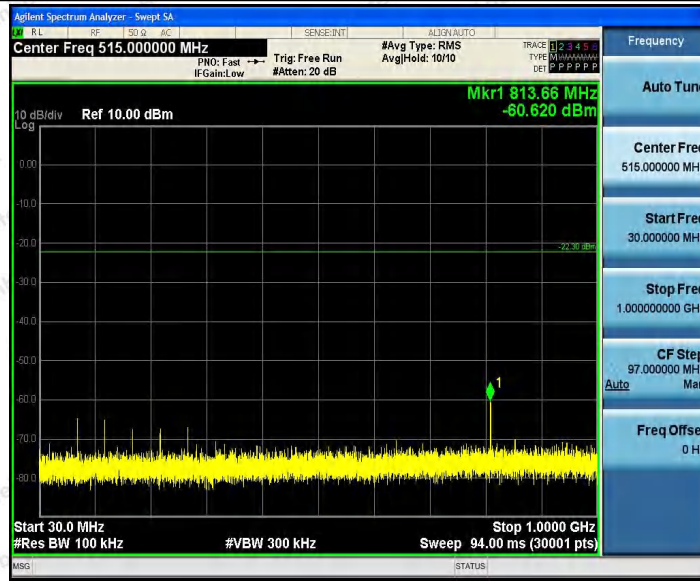
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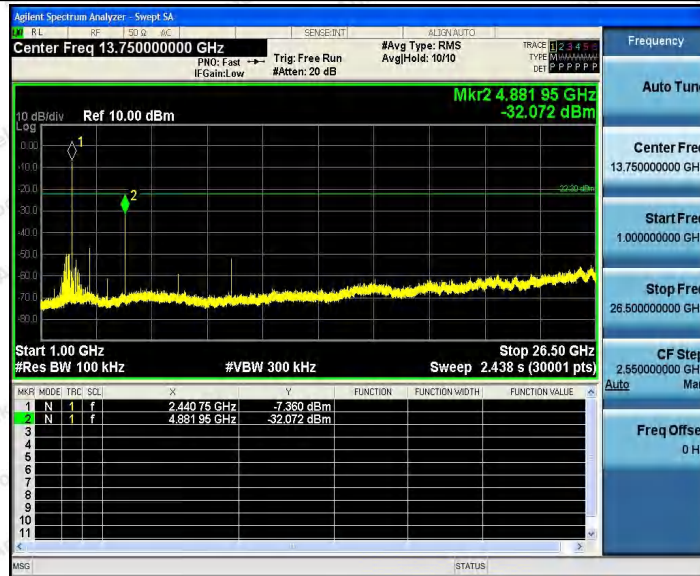
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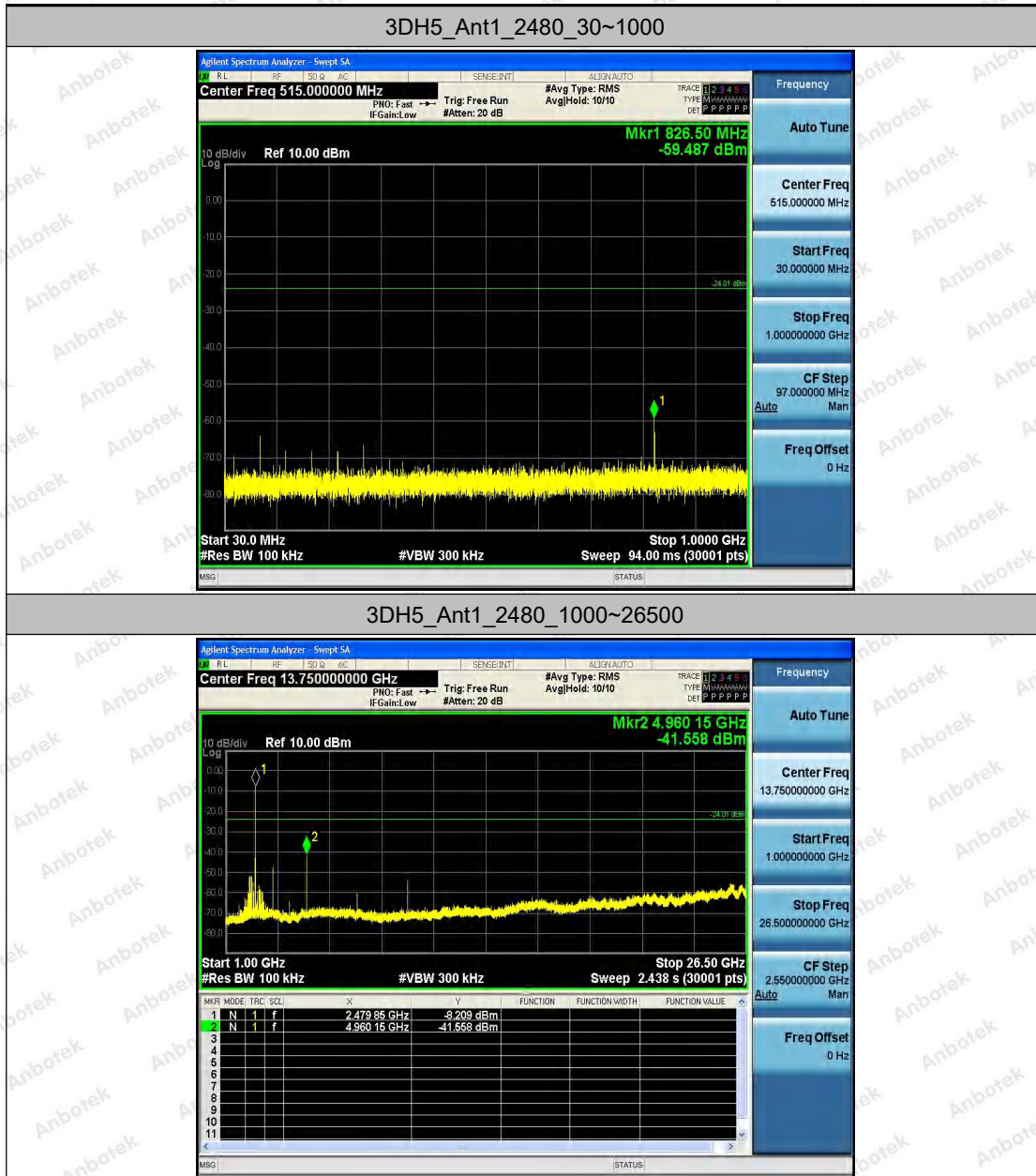
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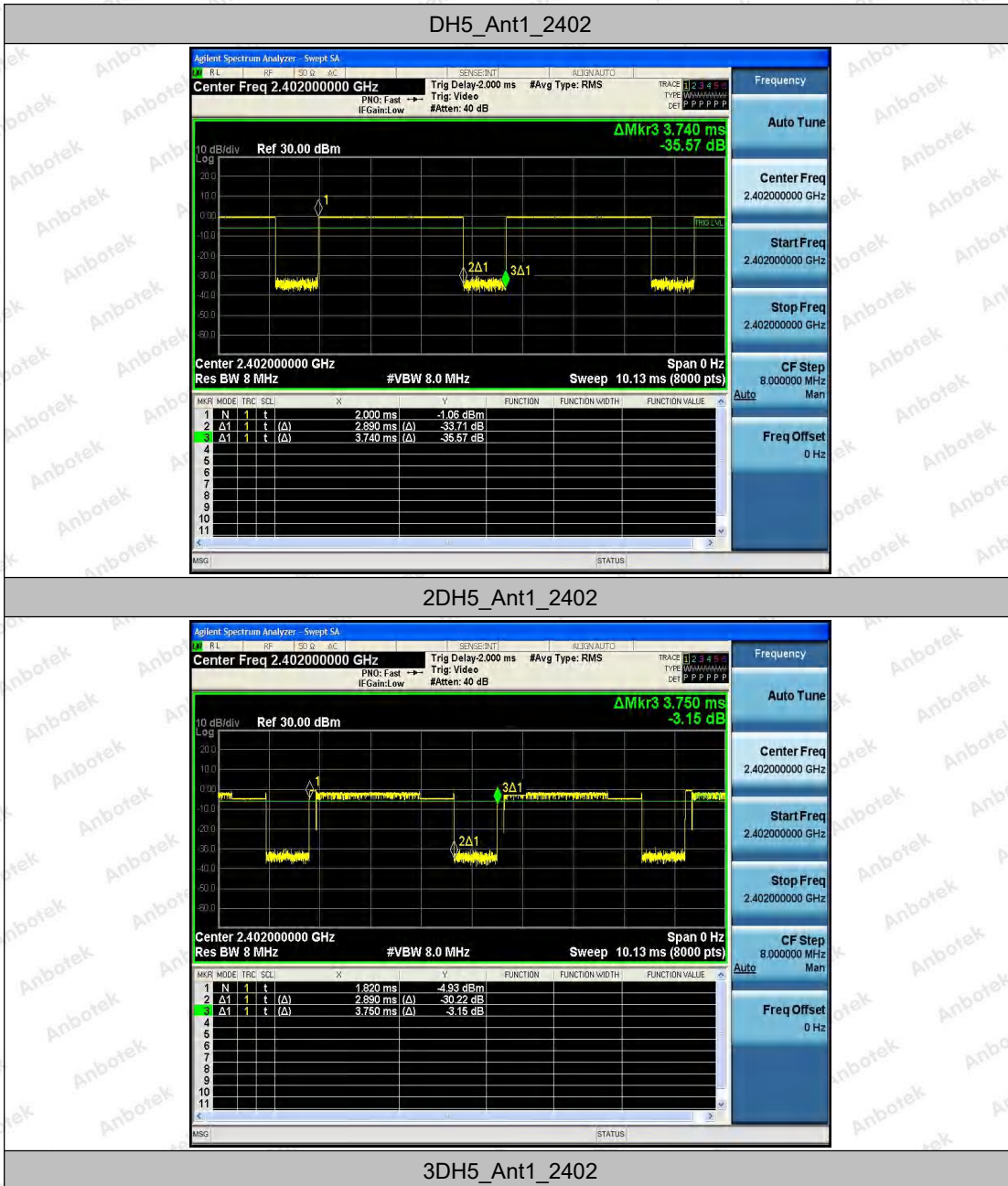
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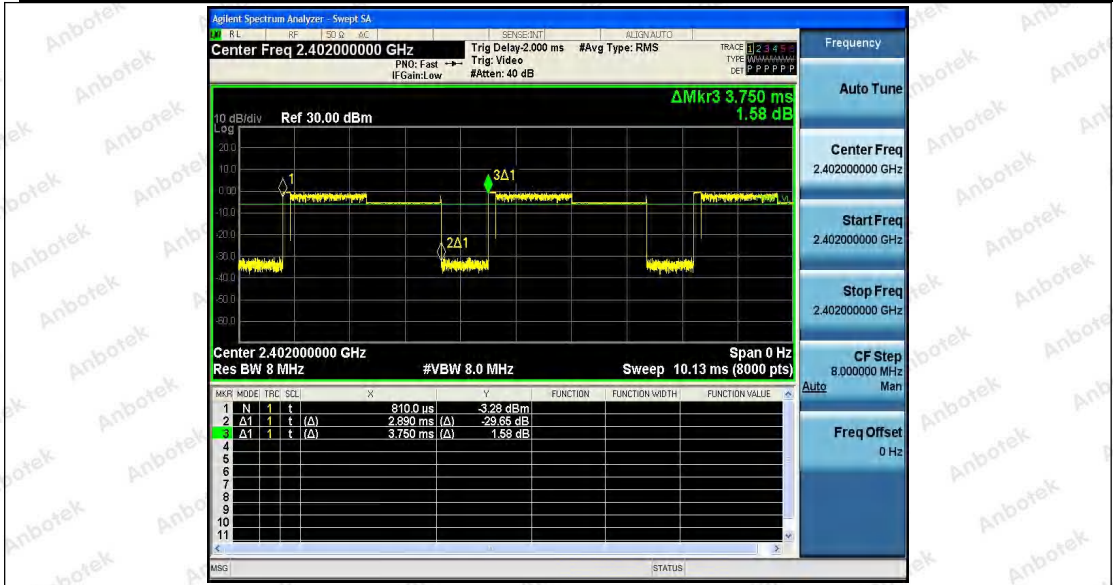
Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	x Factor	Limit	Verdict
DH5	Ant1	2402	2.89	3.74	0.7727	77.27	1.12	---	PASS
2DH5	Ant1	2402	2.89	3.75	0.7707	77.07	1.13	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.7707	77.07	1.13	---	PASS

Test Graphs





---End---