

Appendix Test Data

Report No.:	18220WC20118101	Test Sample No.:	1-2-2
Start Test Date:	2022.6.1	Finish Test Date:	2022.6.10
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	0.951	2401.538	2402.489	---	PASS
		2441	0.948	2440.538	2441.486	---	PASS
		2480	0.951	2479.538	2480.489	---	PASS
2DH5	Ant1	2402	1.329	2401.334	2402.663	---	PASS
		2441	1.347	2440.331	2441.678	---	PASS
		2480	1.323	2479.337	2480.660	---	PASS
3DH5	Ant1	2402	1.311	2401.346	2402.657	---	PASS
		2441	1.332	2440.331	2441.663	---	PASS
		2480	1.269	2479.358	2480.627	---	PASS

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



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3DH5_Ant1_2480



Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88891	2401.557	2402.446	---	PASS
		2441	0.88867	2440.556	2441.445	---	PASS
		2480	0.90231	2479.553	2480.455	---	PASS
2DH5	Ant1	2402	1.1971	2401.403	2402.600	---	PASS
		2441	1.1967	2440.403	2441.599	---	PASS
		2480	1.1884	2479.405	2480.594	---	PASS
3DH5	Ant1	2402	1.2165	2401.385	2402.601	---	PASS
		2441	1.2094	2440.388	2441.598	---	PASS
		2480	1.1895	2479.407	2480.596	---	PASS

Test Graphs





2DH5_Ant1_2402



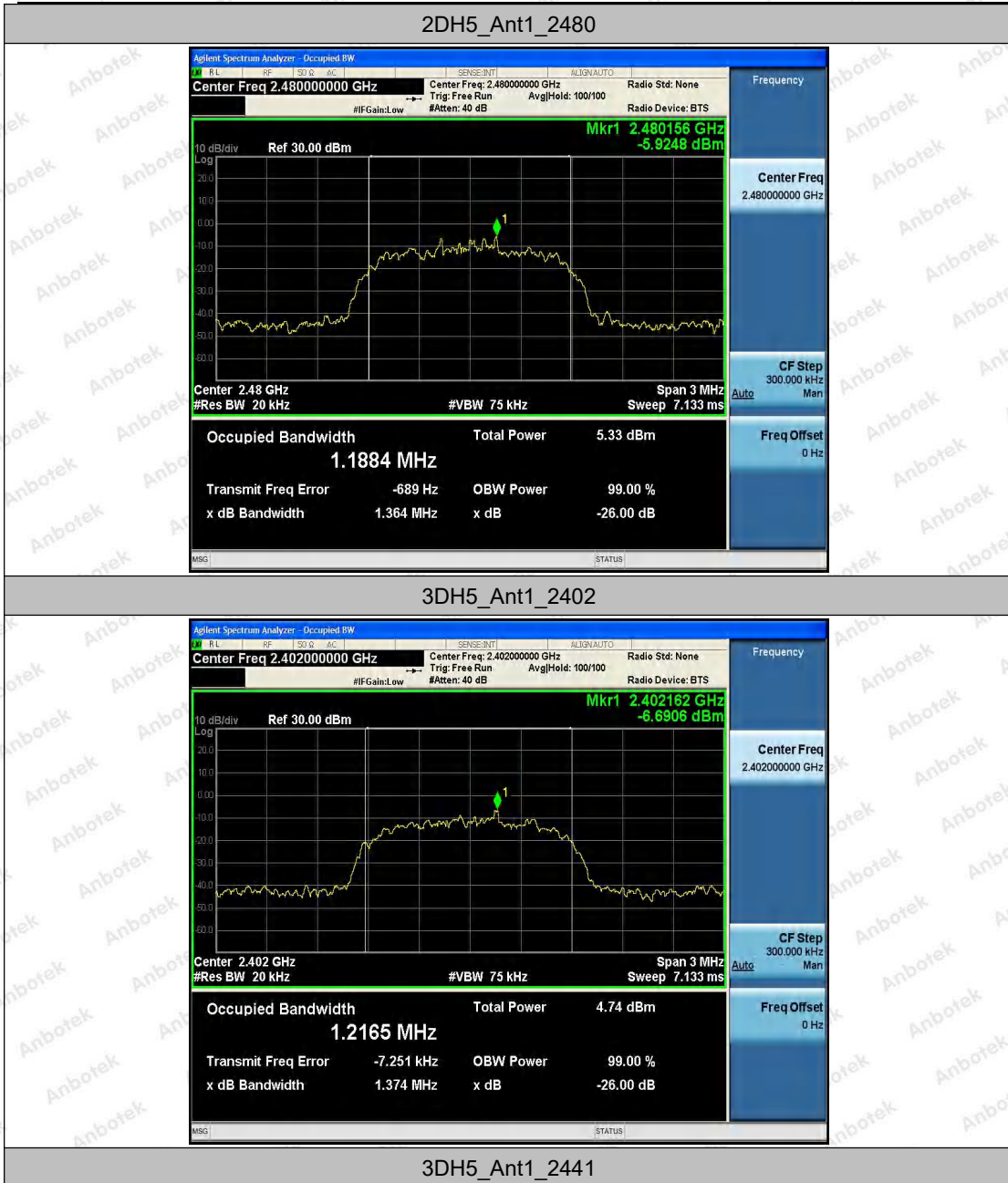
2DH5_Ant1_2441



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3DH5_Ant1_2480

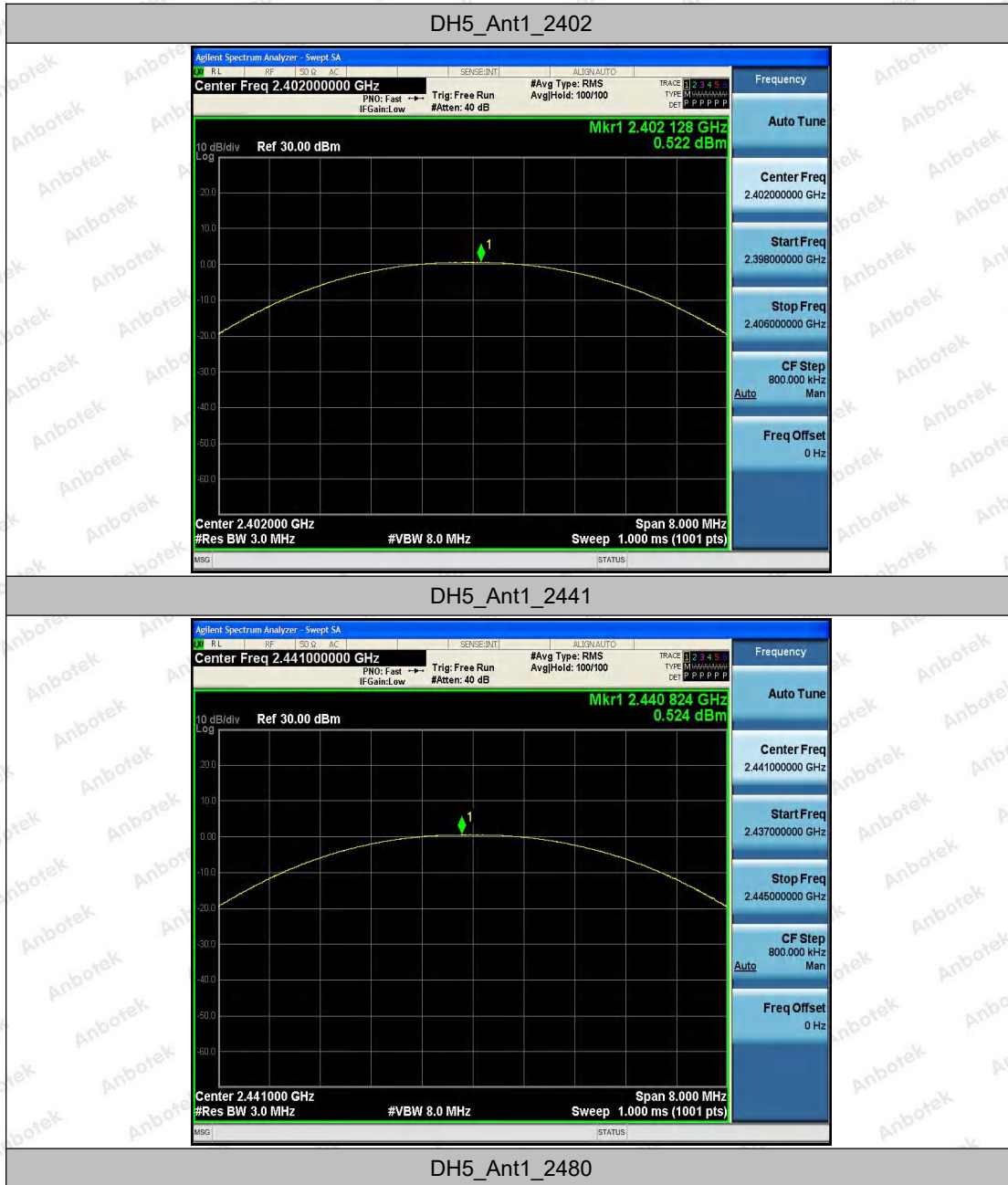


Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.52	≤20.97	PASS
		2441	0.52	≤20.97	PASS
		2480	0.67	≤20.97	PASS
2DH5	Ant1	2402	-0.16	≤20.97	PASS
		2441	-0.18	≤20.97	PASS
		2480	-0.08	≤20.97	PASS
3DH5	Ant1	2402	-0.03	≤20.97	PASS
		2441	-0.35	≤20.97	PASS
		2480	-0.2	≤20.97	PASS

Test Graphs



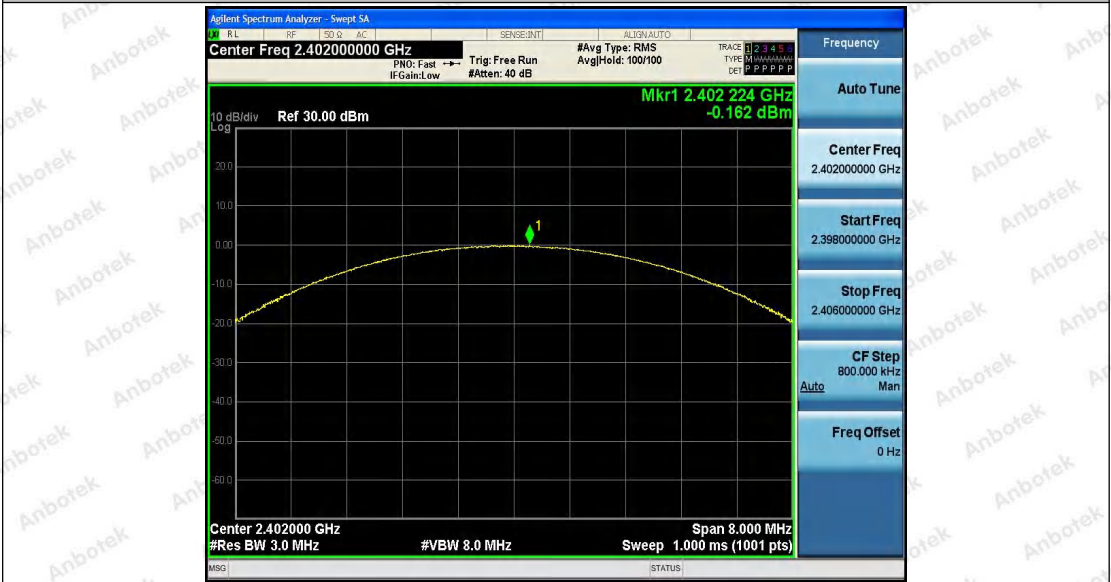
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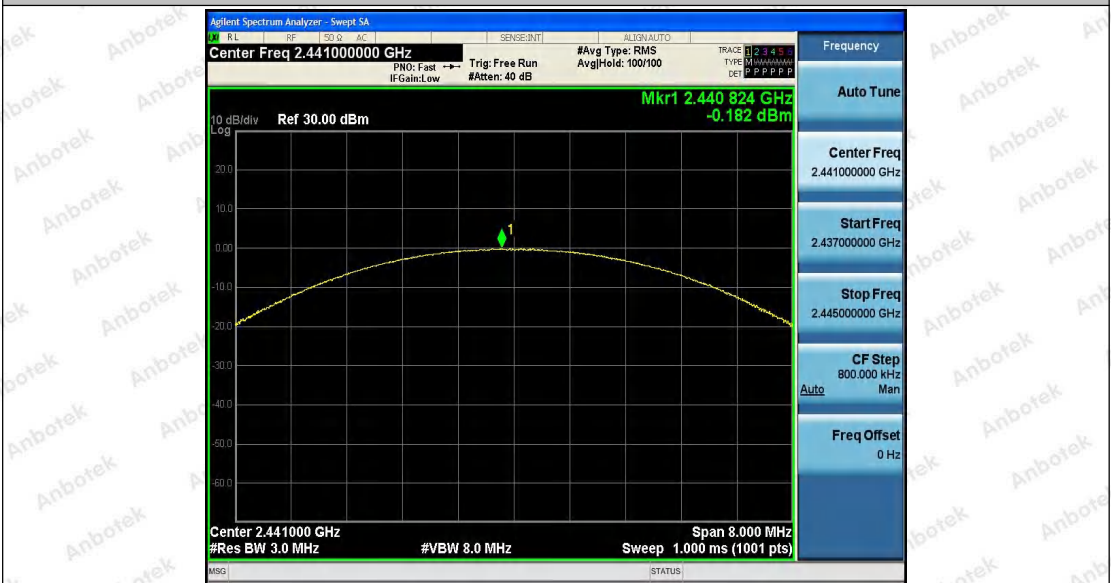
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2DH5_Ant1_2402



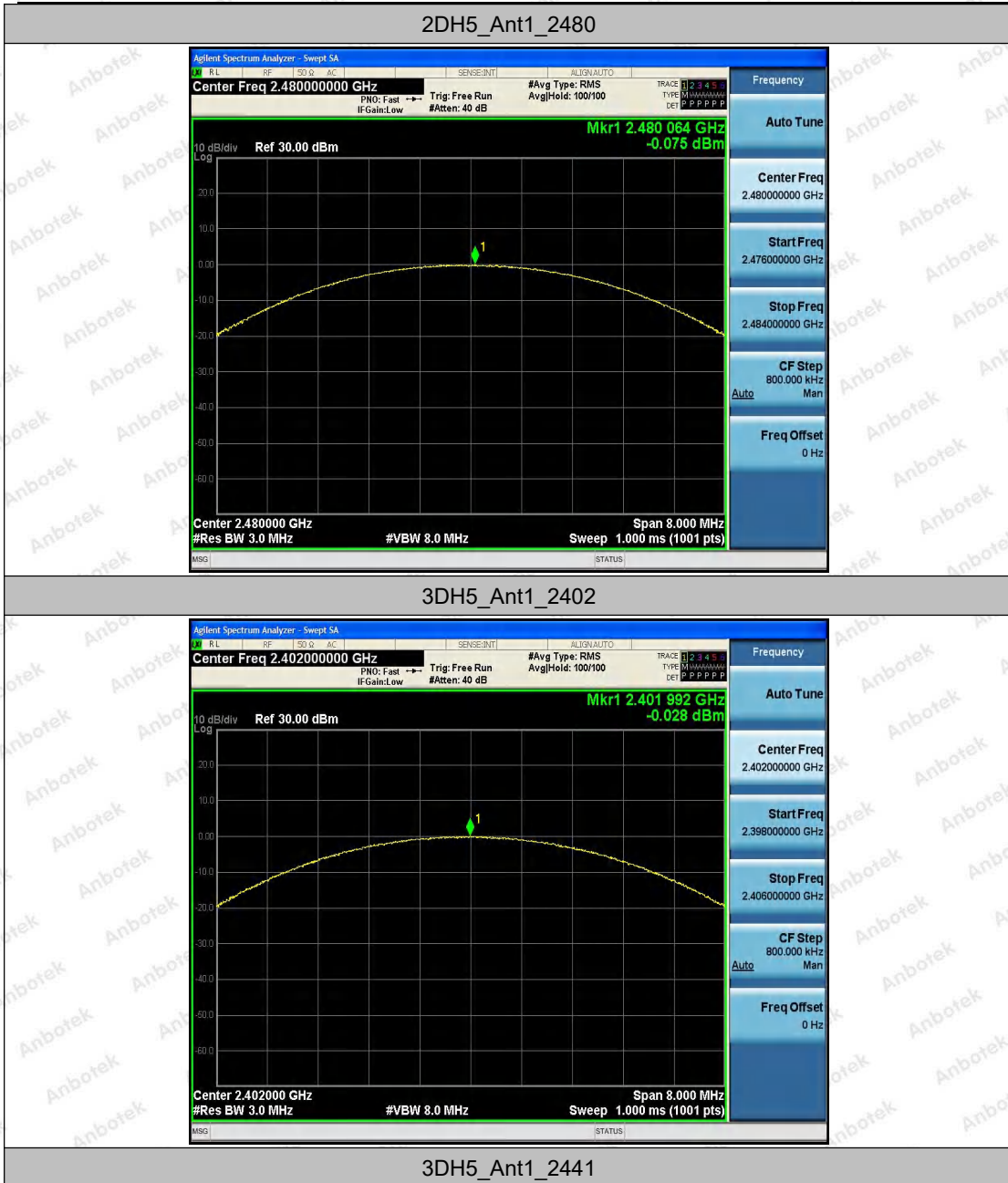
2DH5_Ant1_2441



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3DH5_Ant1_2480



Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.01	≥0.951	PASS
2DH5	Ant1	Hop	0.996	≥0.898	PASS
3DH5	Ant1	Hop	1.018	≥0.888	PASS

Test Graphs





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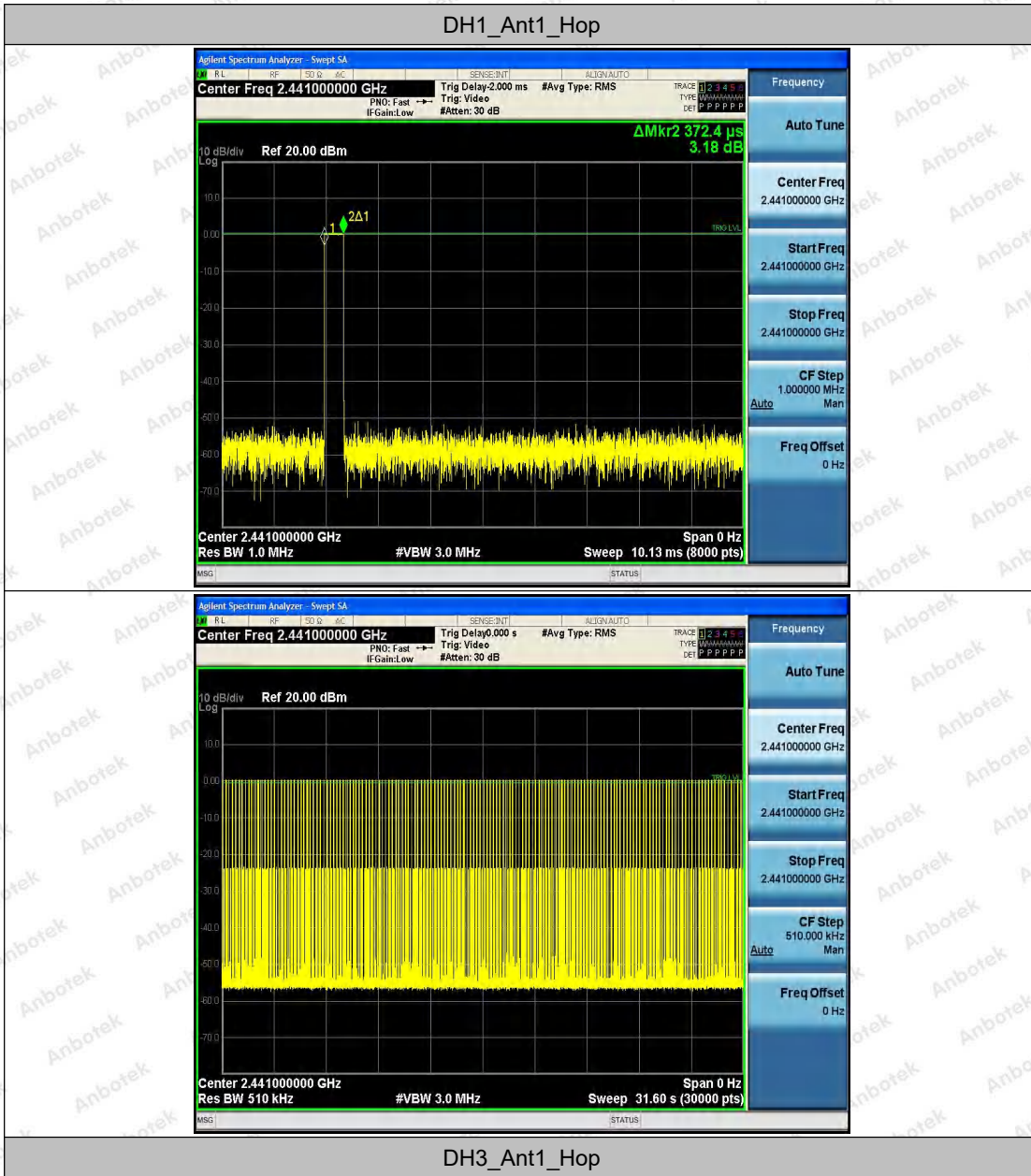
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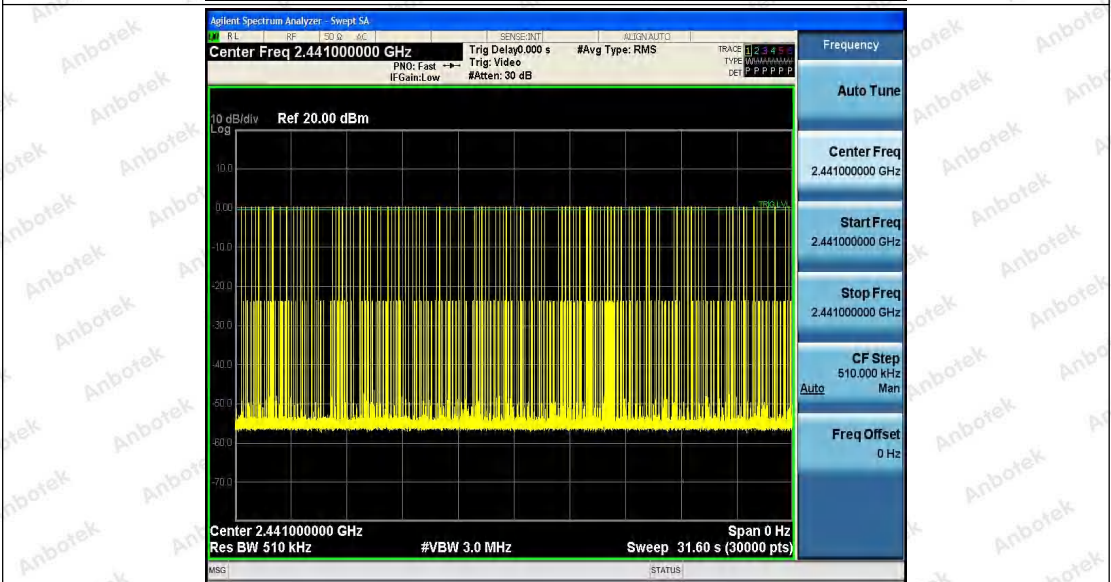
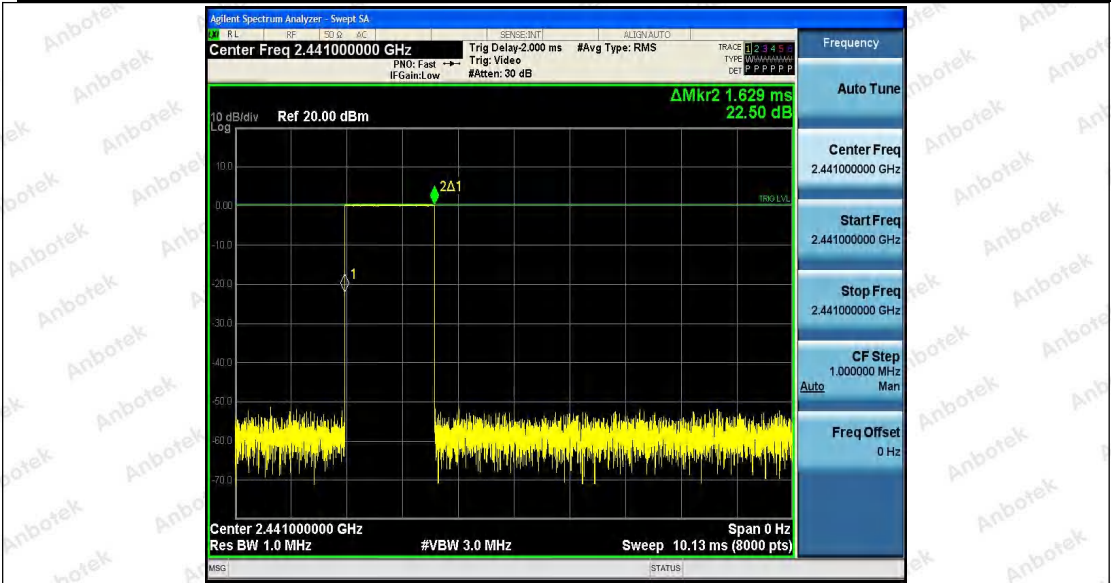
Appendix E: Time of occupancy

Test Result

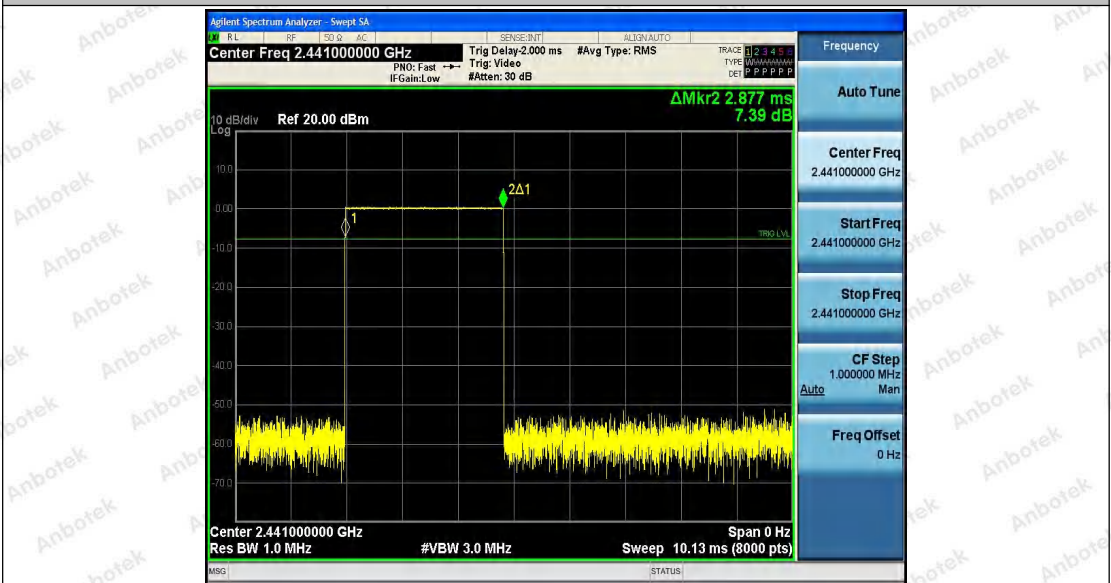
Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	312	0.116	≤0.4	PASS
DH3	Ant1	Hop	1.63	156	0.254	≤0.4	PASS
DH5	Ant1	Hop	2.88	107	0.308	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	156	0.255	≤0.4	PASS
2DH5	Ant1	Hop	2.88	101	0.291	≤0.4	PASS
3DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
3DH5	Ant1	Hop	2.88	104	0.3	≤0.4	PASS

Test Graphs





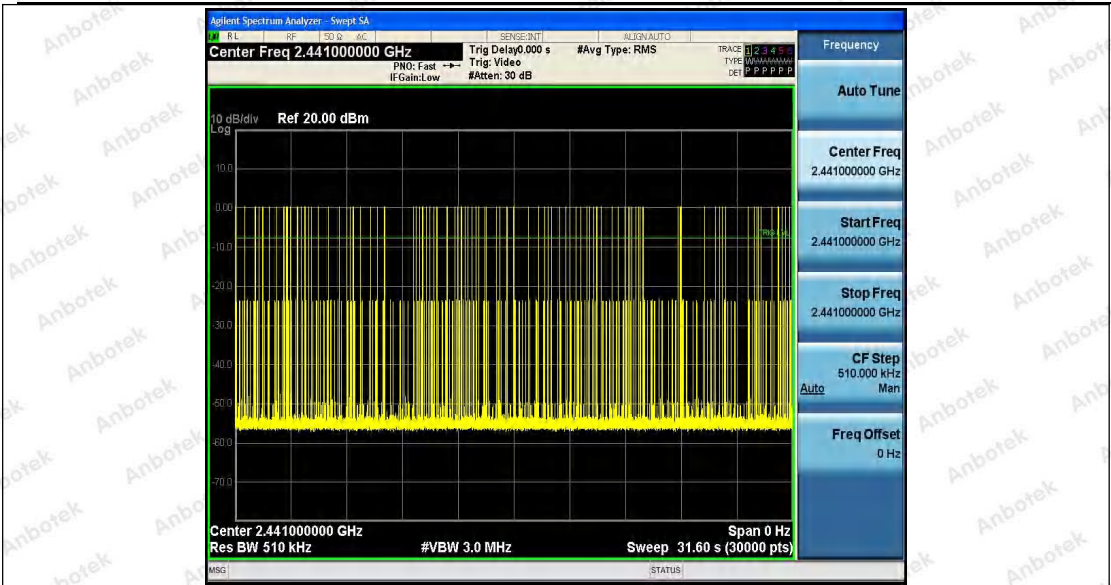
DH5_Ant1_Hop



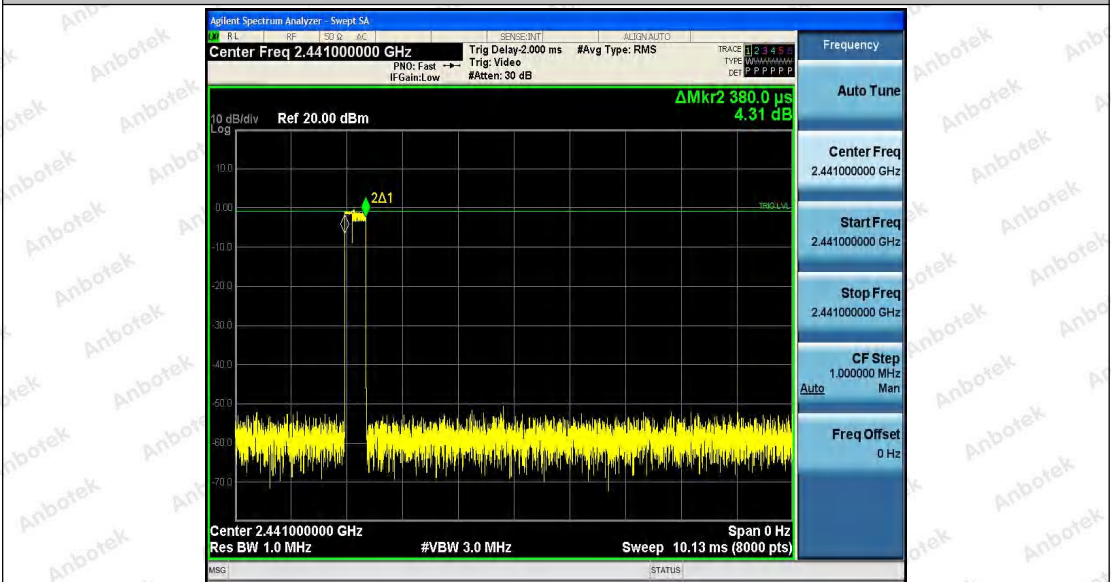
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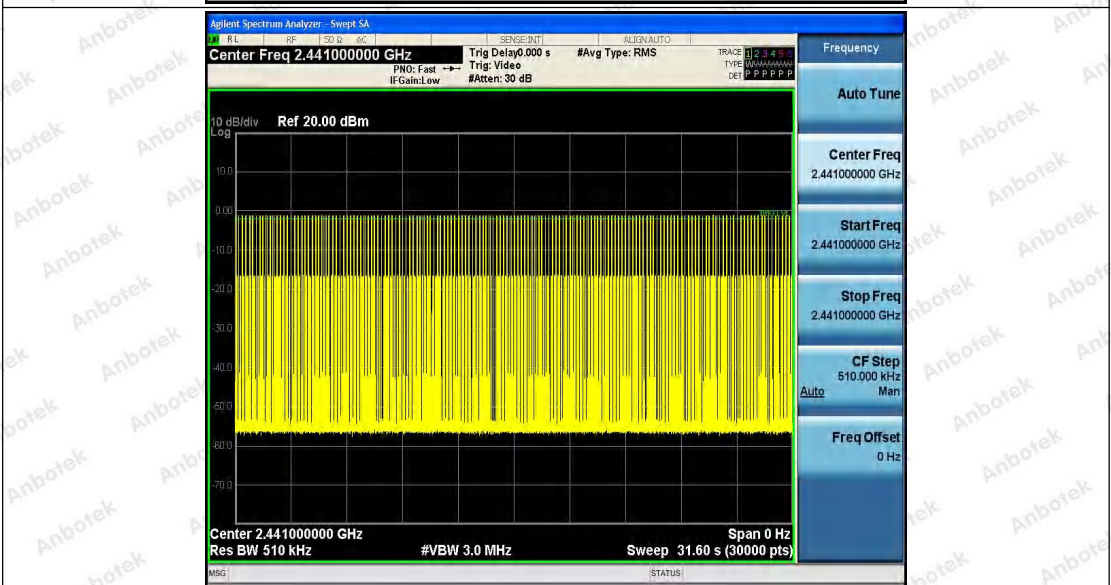
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2DH1_Ant1_Hop



2DH1_Ant1_Hop

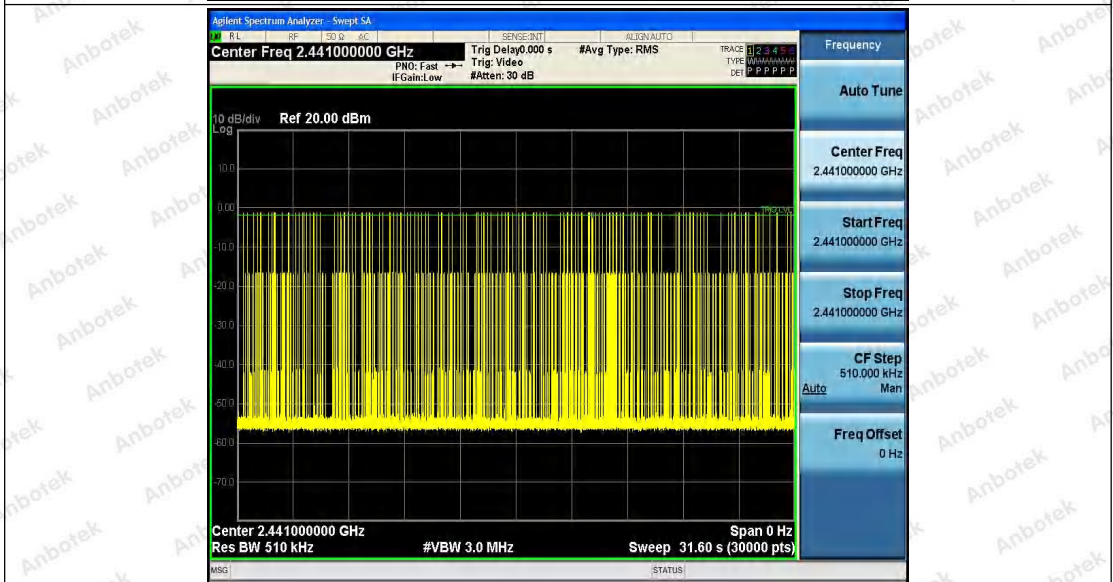
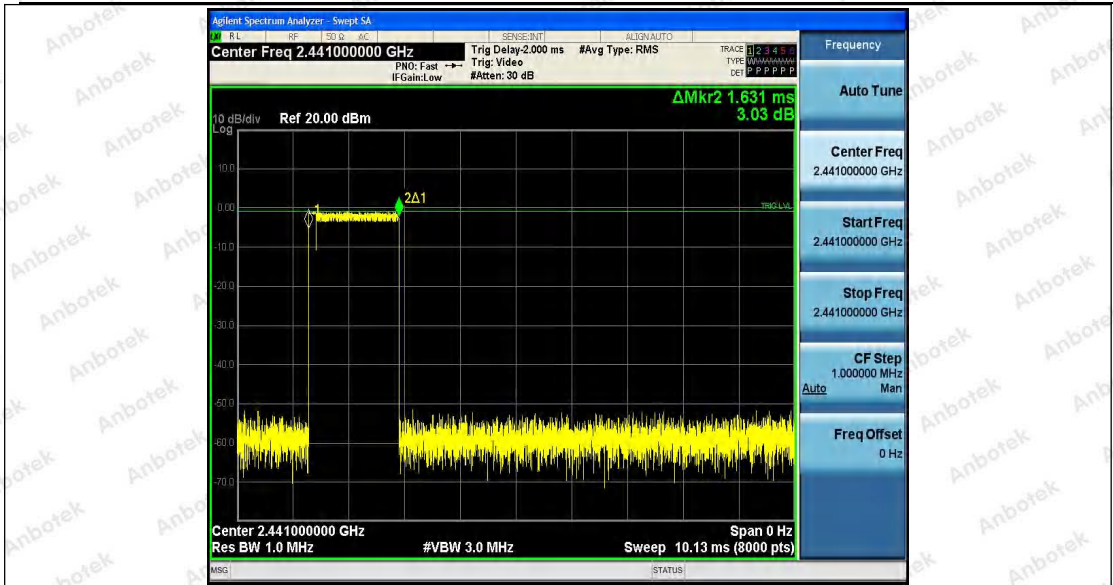


2DH3_Ant1_Hop

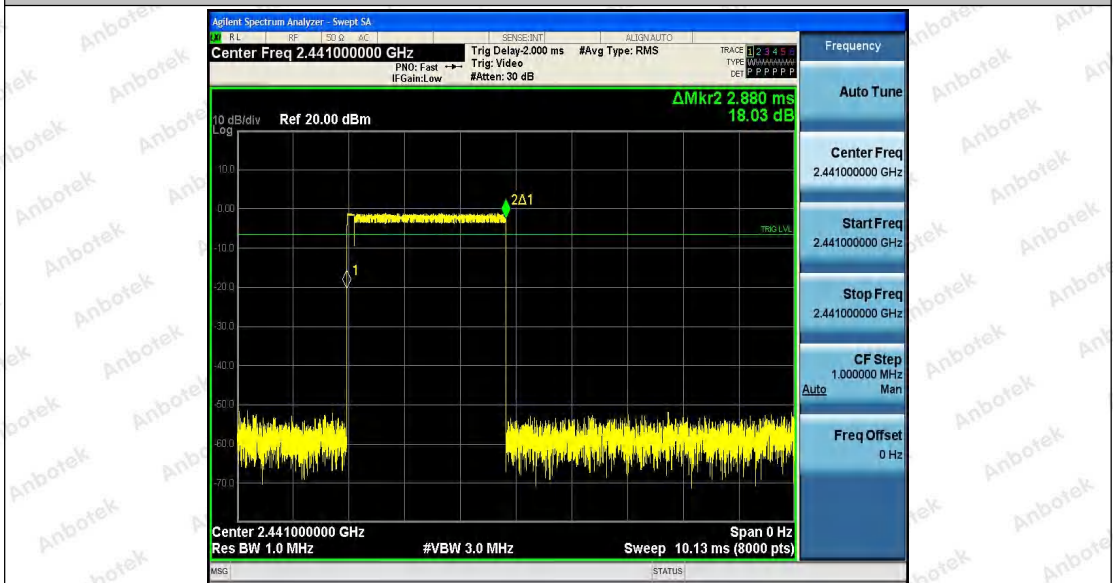
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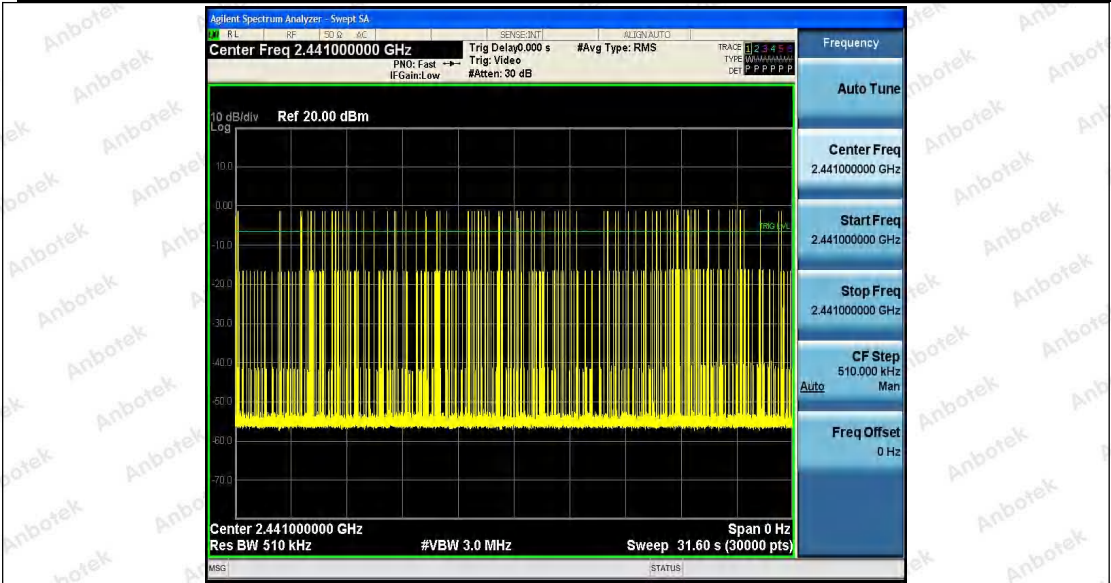
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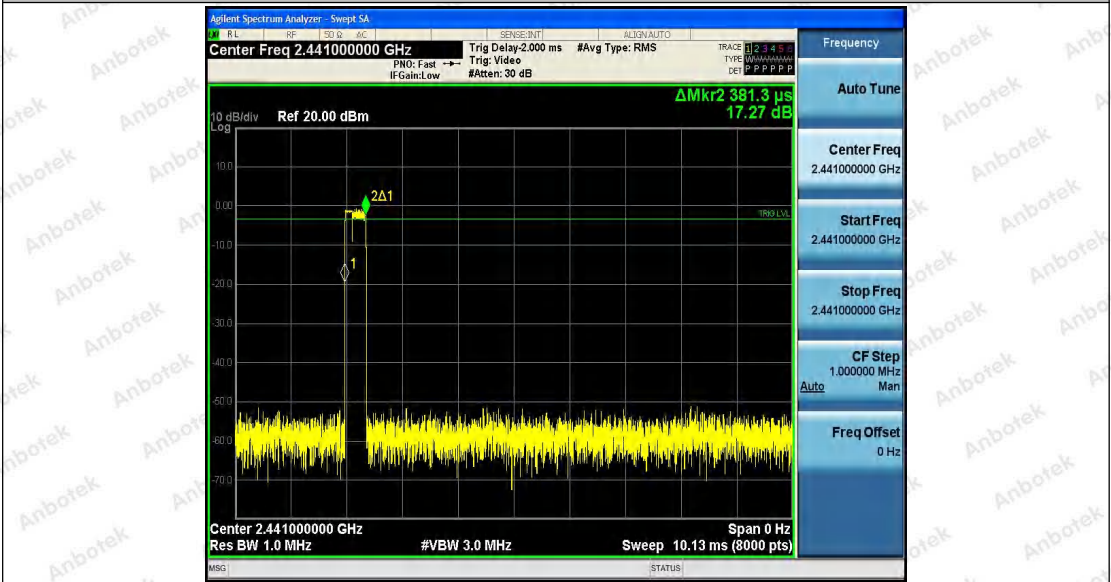
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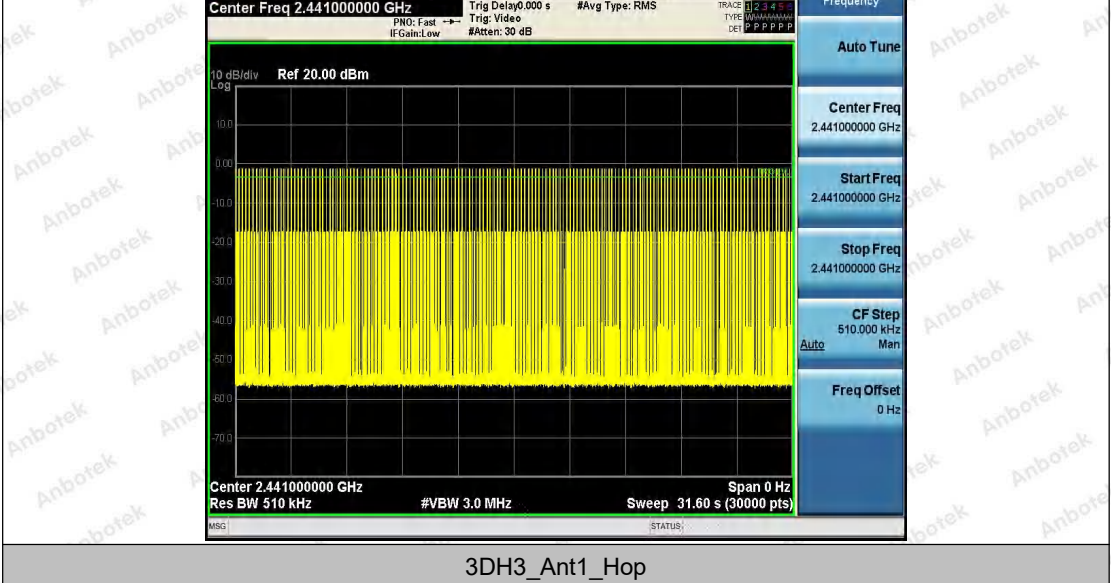
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3DH1_Ant1_Hop



3DH1_Ant1_Hop

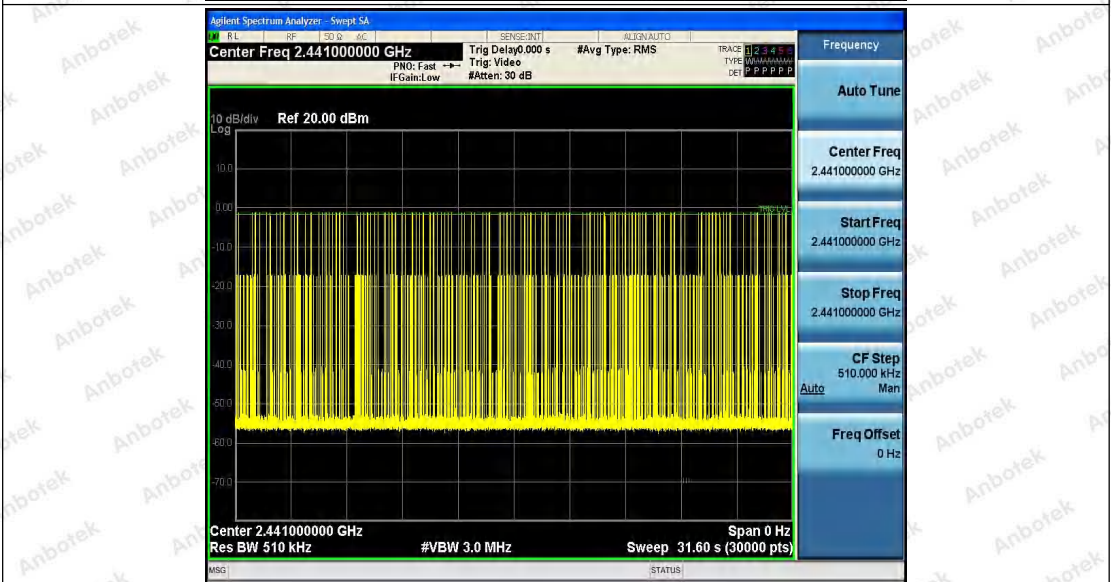
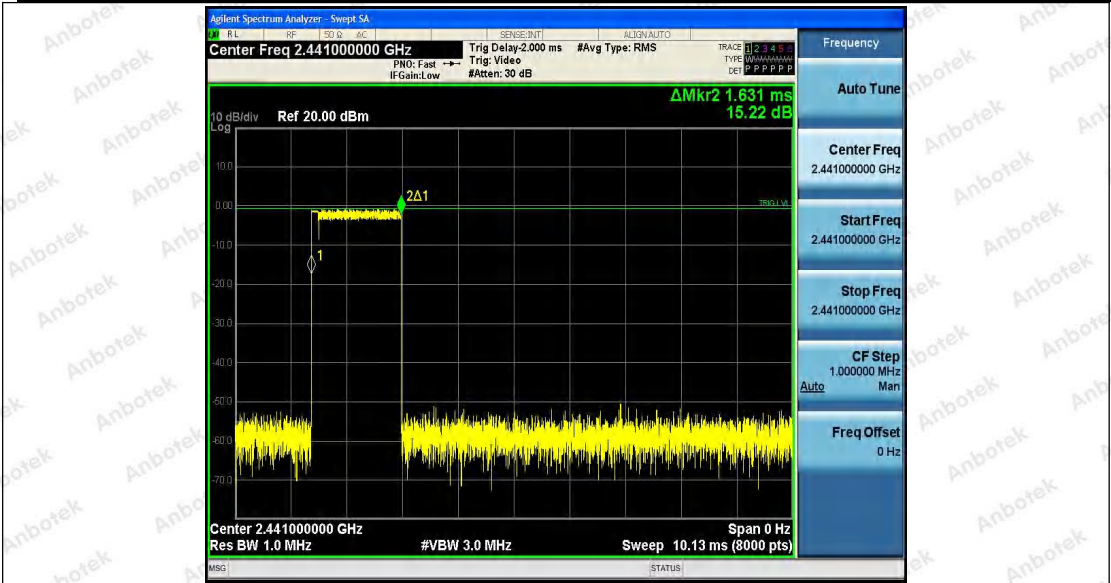


3DH3_Ant1_Hop

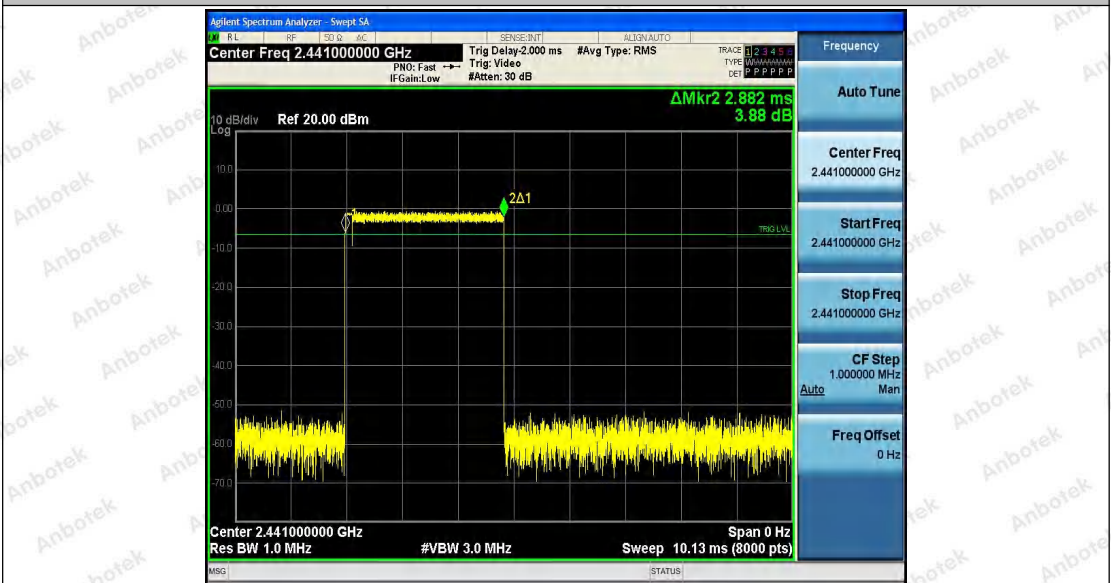
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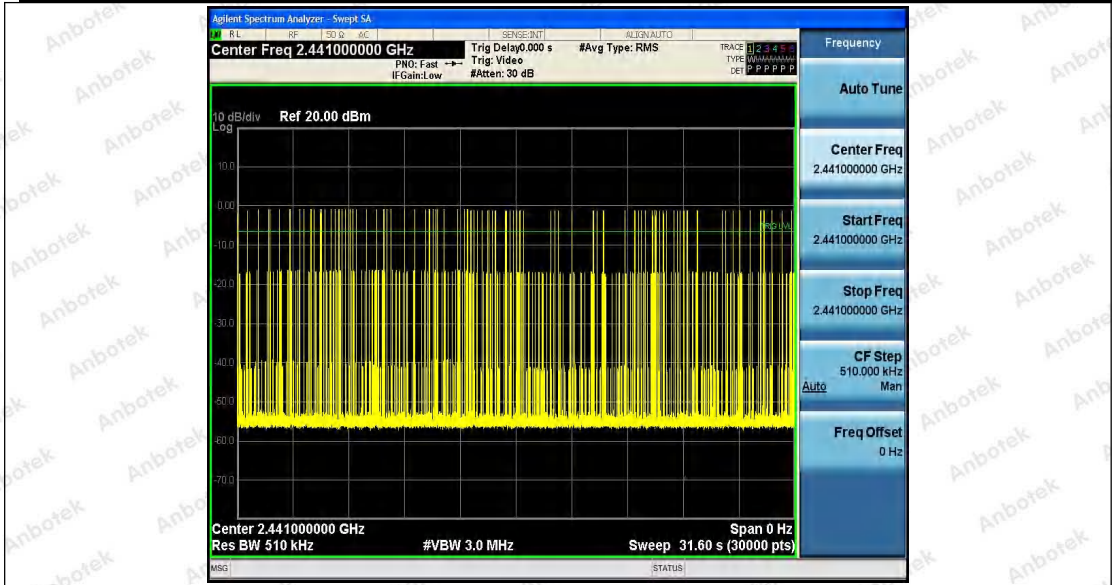
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3DH5_Ant1_Hop





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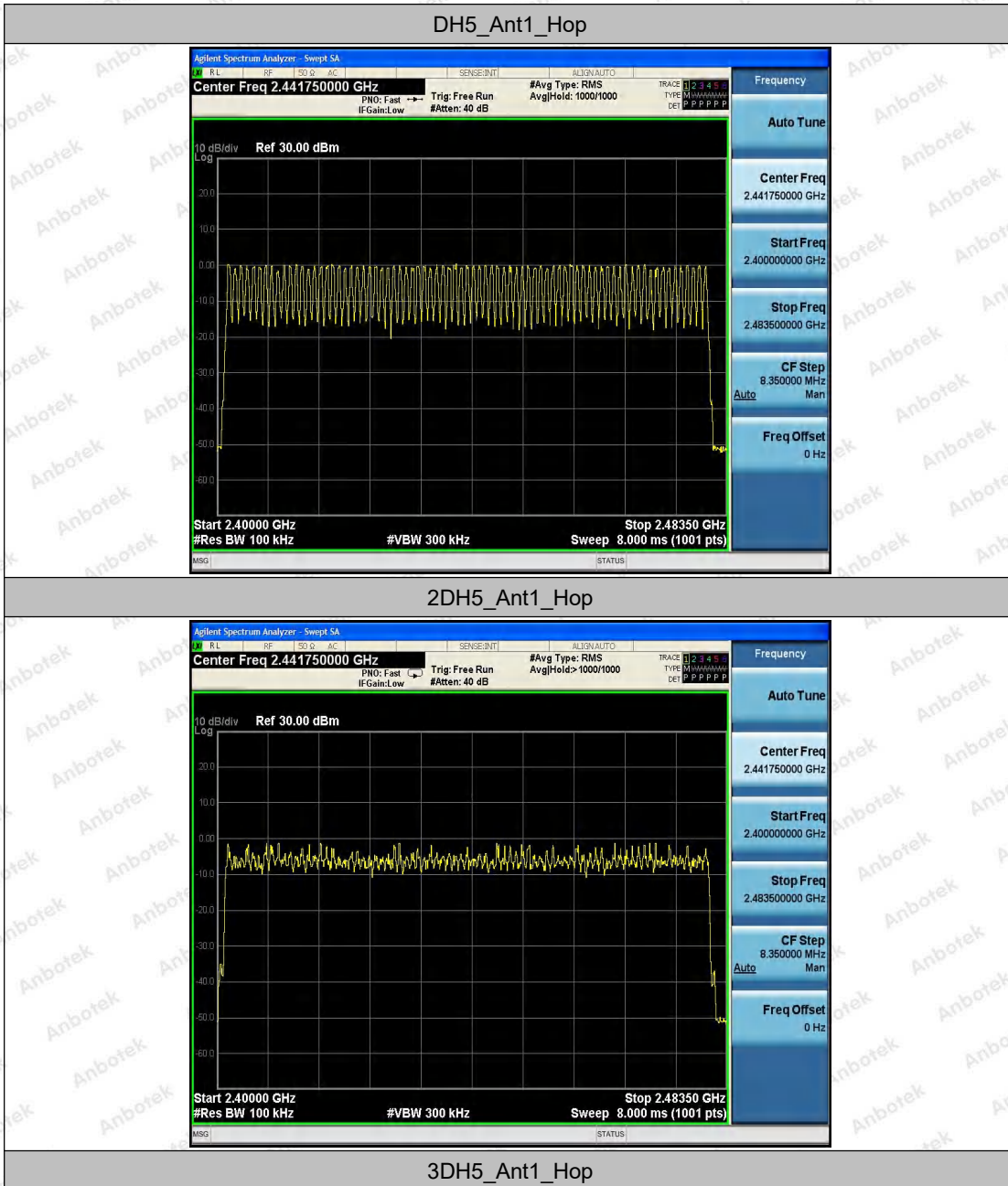
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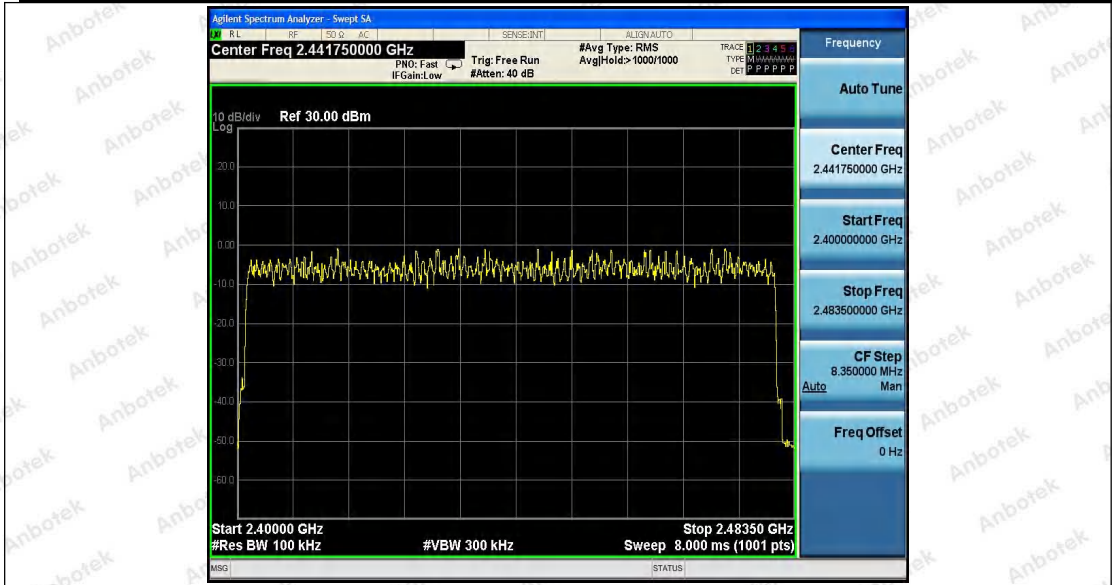
Appendix F: Number of hopping channels

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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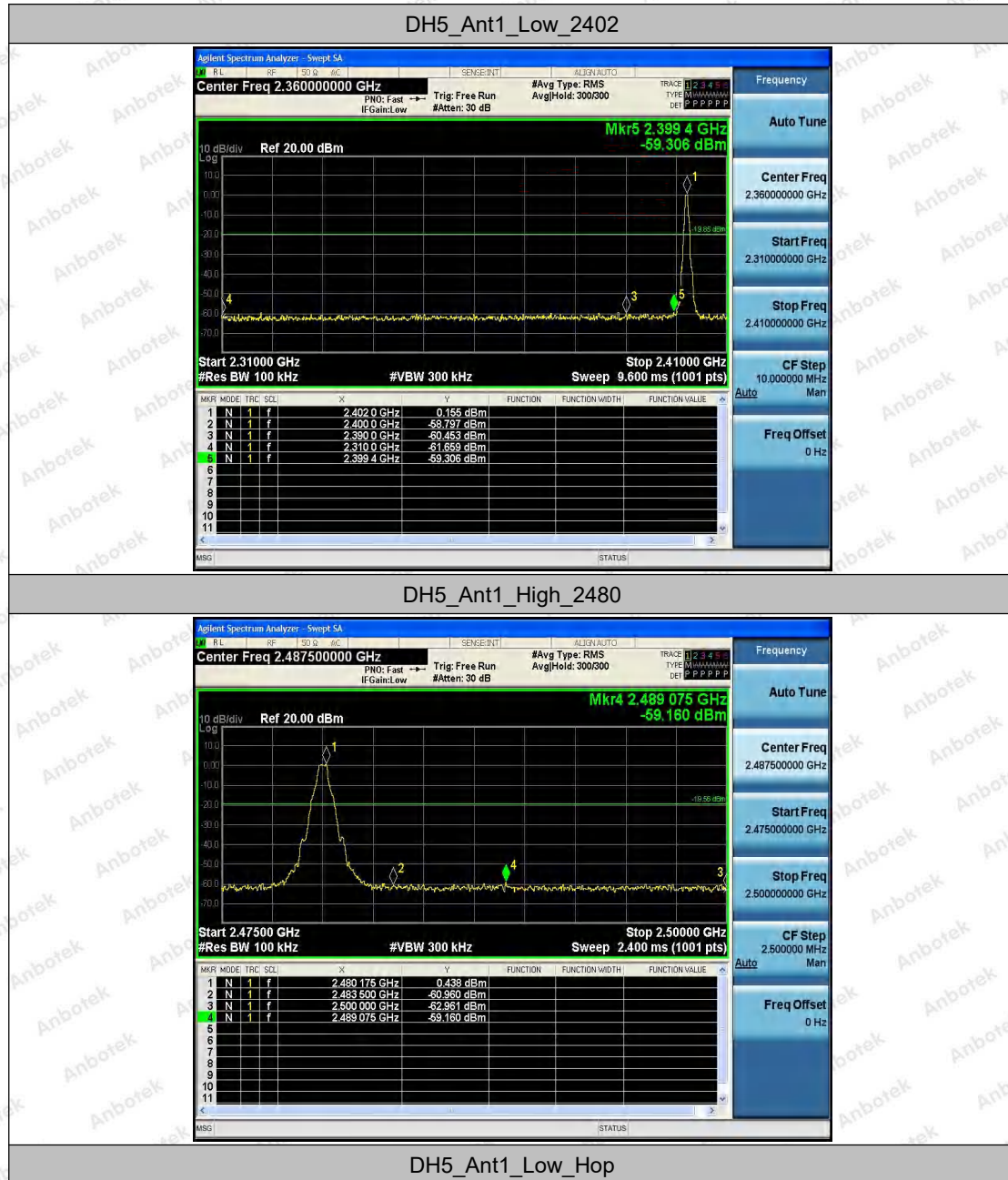
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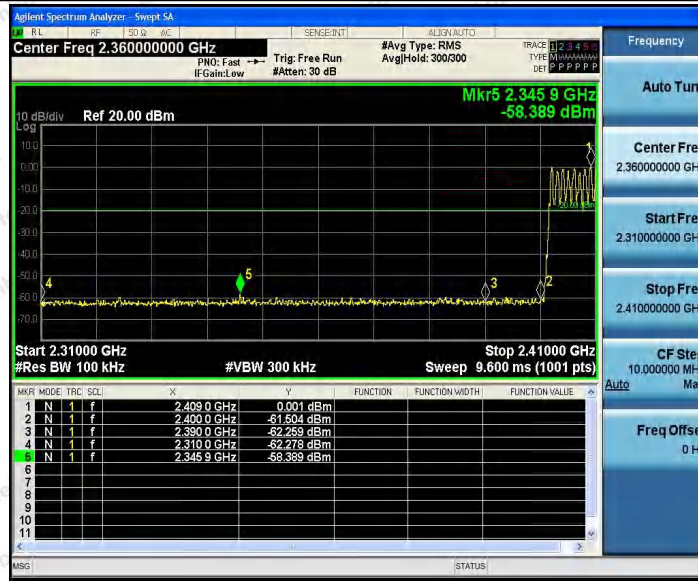
Appendix G: Band edge measurements

Test Result

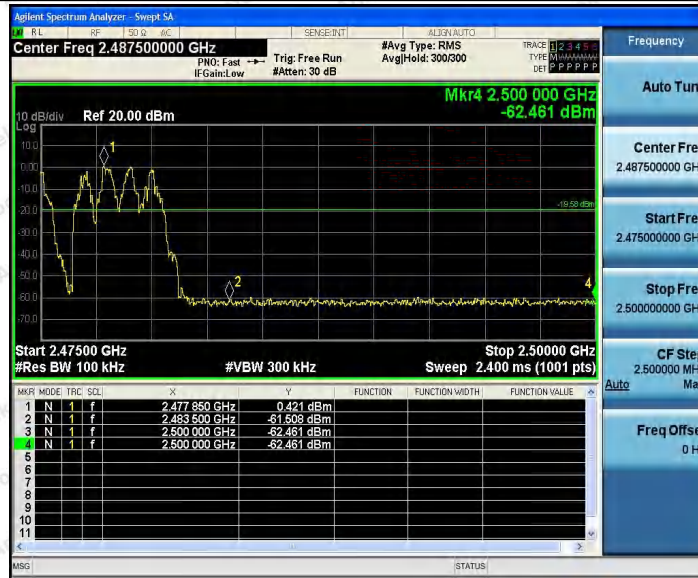
Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.16	-59.31	≤-19.85	PASS
		High	2480	0.44	-59.16	≤-19.56	PASS
		Low	Hop	0.00	-58.39	≤-20	PASS
		High	Hop	0.42	-62.46	≤-19.58	PASS
2DH5	Ant1	Low	2402	-1.13	-56.71	≤-21.13	PASS
		High	2480	-0.76	-58.86	≤-20.76	PASS
		Low	Hop	-2.80	-59.76	≤-22.8	PASS
		High	Hop	-2.60	-61.4	≤-22.6	PASS
3DH5	Ant1	Low	2402	-1.69	-56.82	≤-21.69	PASS
		High	2480	-1.57	-60.01	≤-21.57	PASS
		Low	Hop	-1.48	-59.88	≤-21.48	PASS
		High	Hop	-3.52	-61.58	≤-23.52	PASS

Test Graphs

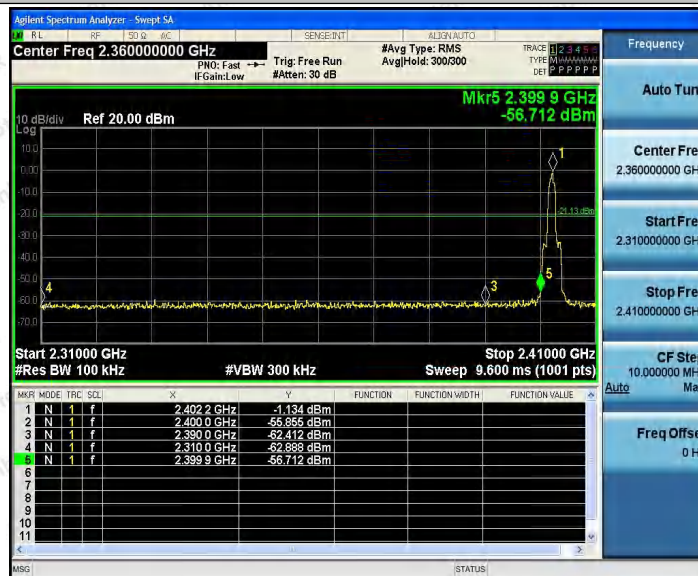




DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402

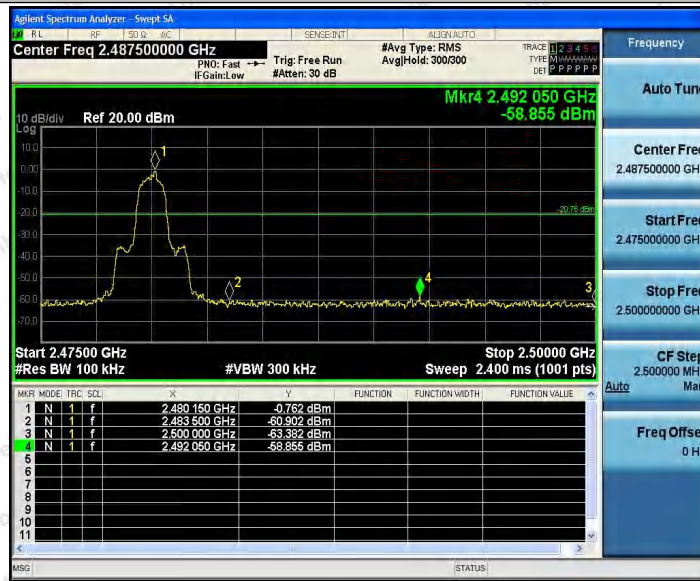


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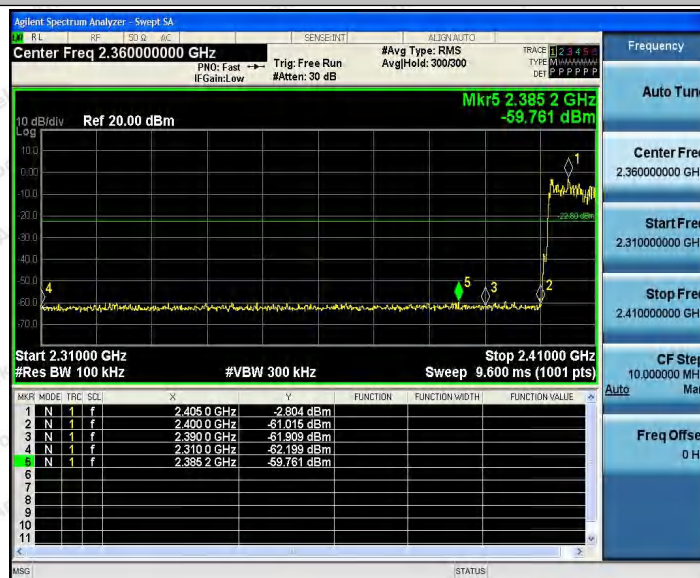
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop

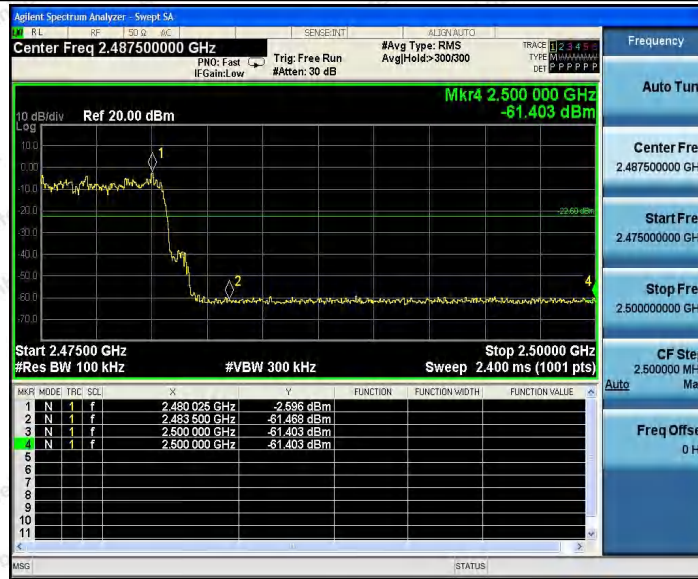


2DH5_Ant1_High_Hop

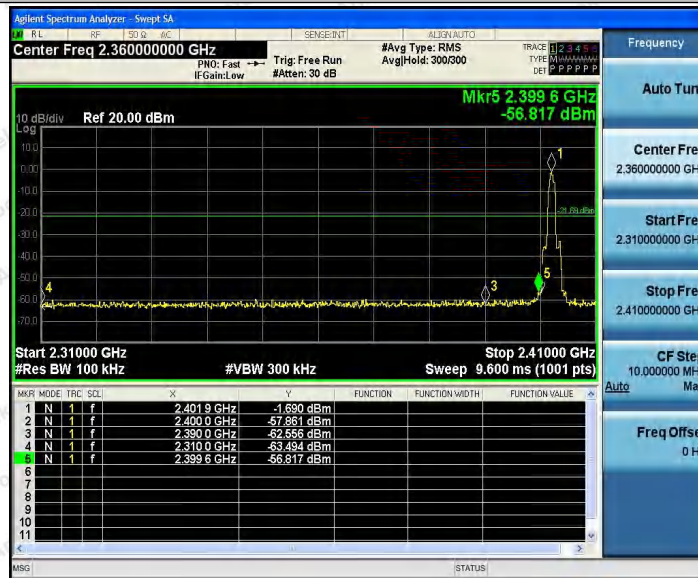
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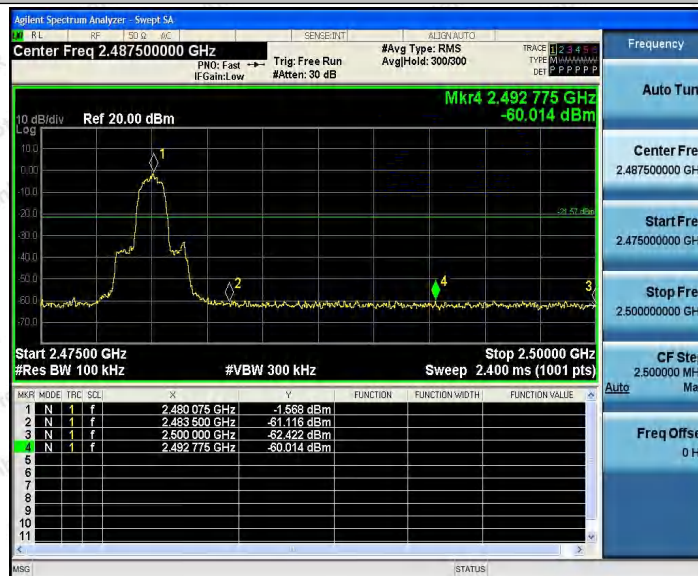
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3DH5_Ant1_Low_2402



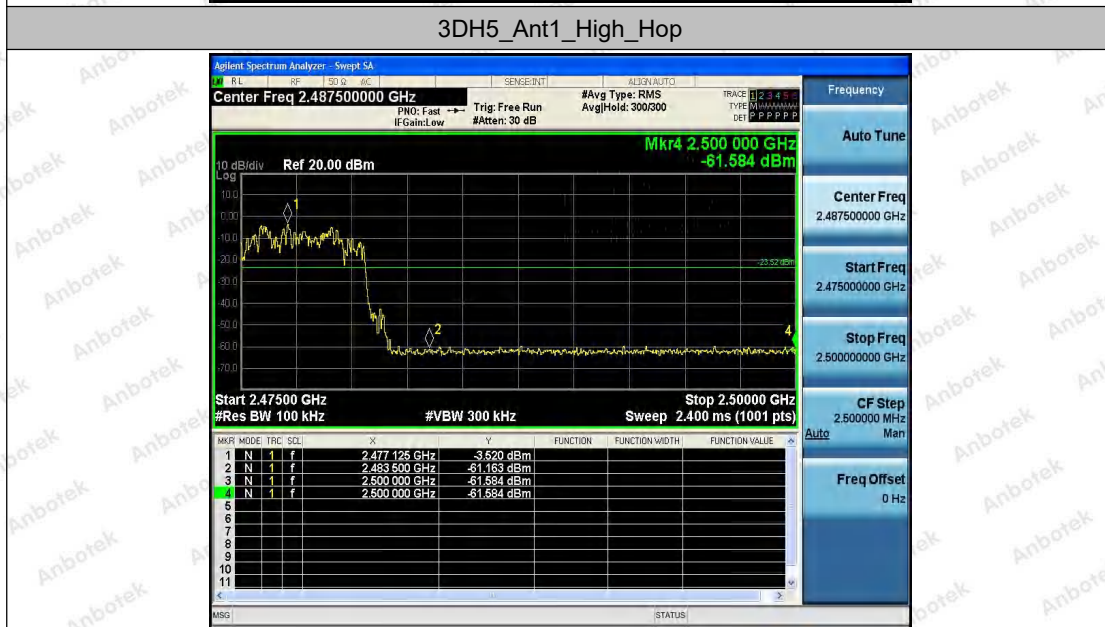
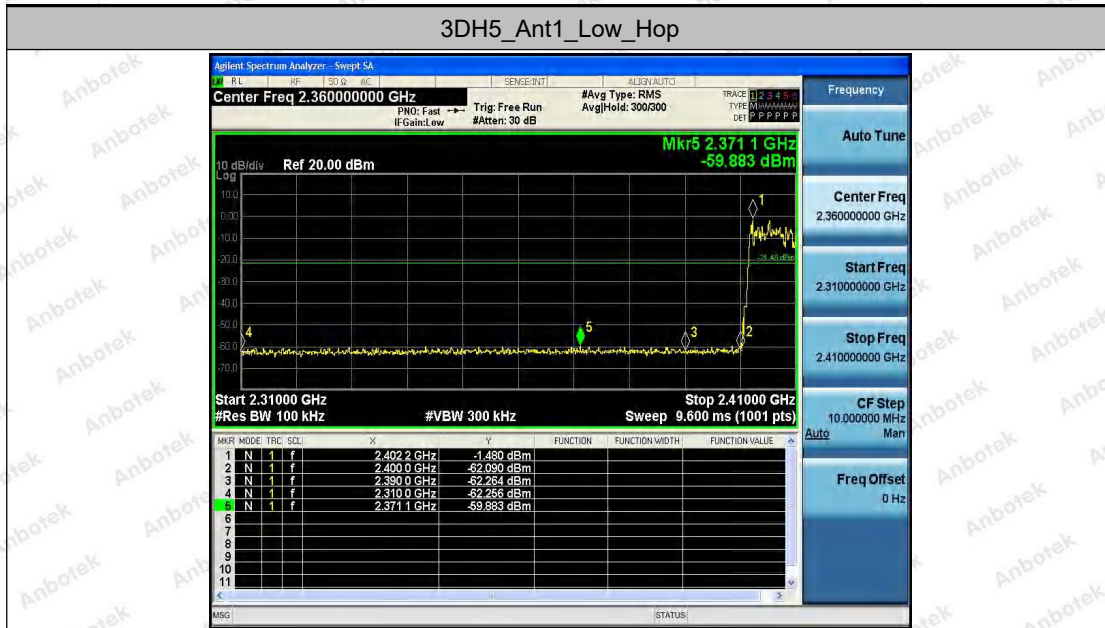
3DH5_Ant1_High_2480



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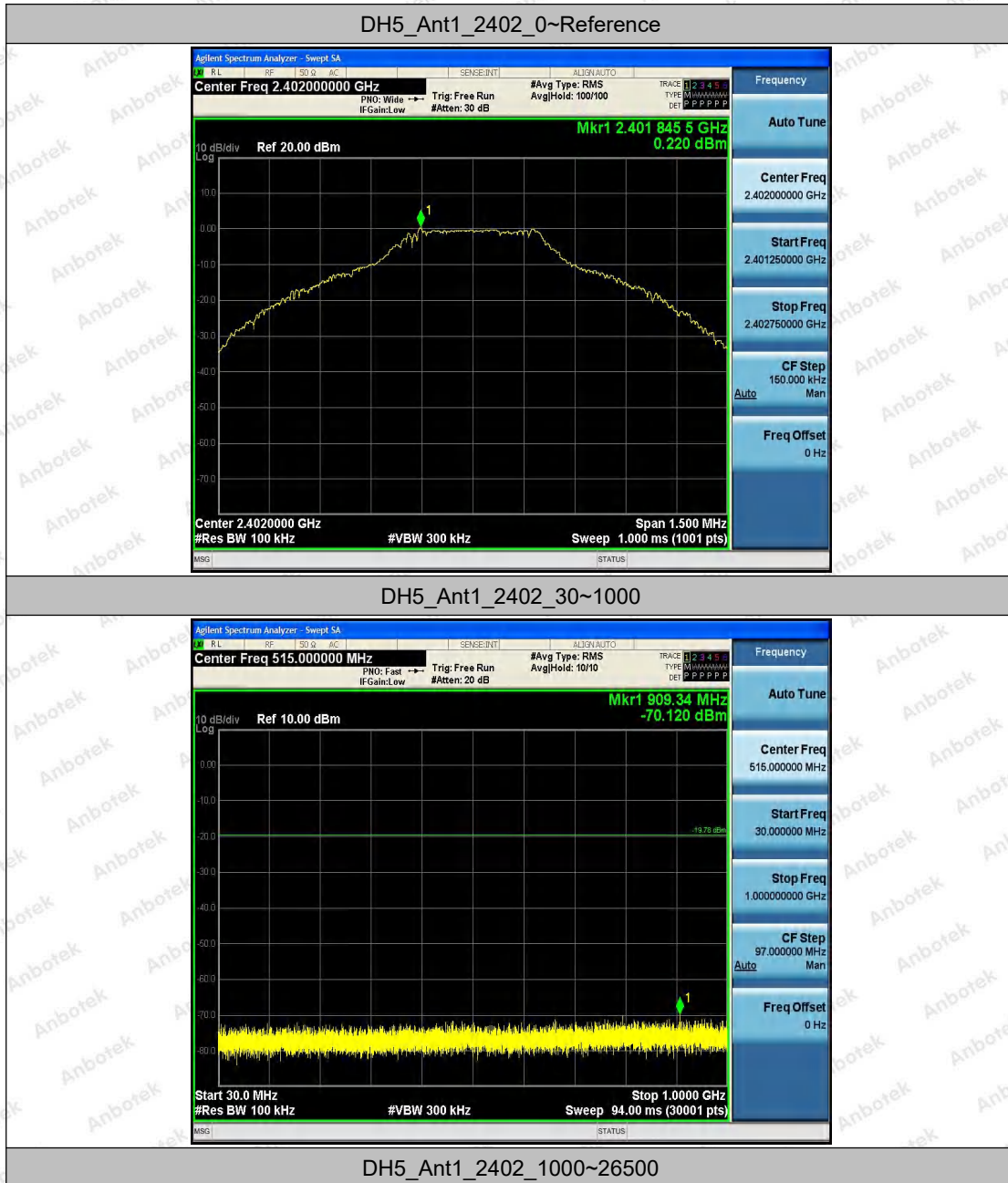


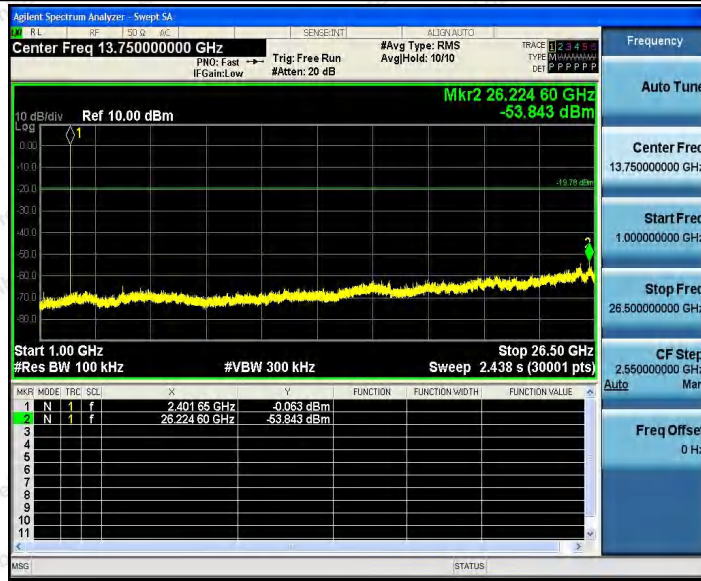
Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.22	0.22	---	PASS
			30~1000	0.22	-70.12	≤-19.78	PASS
			1000~26500	0.22	-53.84	≤-19.78	PASS
		2441	Reference	0.03	0.03	---	PASS
			30~1000	0.03	-70.47	≤-19.97	PASS
			1000~26500	0.03	-54.97	≤-19.97	PASS
		2480	Reference	-0.14	-0.14	---	PASS
			30~1000	-0.14	-70.88	≤-20.14	PASS
			1000~26500	-0.14	-55.52	≤-20.14	PASS
2DH5	Ant1	2402	Reference	-1.43	-1.43	---	PASS
			30~1000	-1.43	-70.37	≤-21.43	PASS
			1000~26500	-1.43	-55.17	≤-21.43	PASS
		2441	Reference	-1.71	-1.71	---	PASS
			30~1000	-1.71	-70.26	≤-21.71	PASS
			1000~26500	-1.71	-54.91	≤-21.71	PASS
		2480	Reference	-1.16	-1.16	---	PASS
			30~1000	-1.16	-70.17	≤-21.16	PASS
			1000~26500	-1.16	-55.5	≤-21.16	PASS
3DH5	Ant1	2402	Reference	-1.58	-1.58	---	PASS
			30~1000	-1.58	-70.02	≤-21.58	PASS
			1000~26500	-1.58	-54.99	≤-21.58	PASS
		2441	Reference	-1.44	-1.44	---	PASS
			30~1000	-1.44	-70.33	≤-21.44	PASS
			1000~26500	-1.44	-54.45	≤-21.44	PASS
		2480	Reference	-1.12	-1.12	---	PASS
			30~1000	-1.12	-70.36	≤-21.12	PASS
			1000~26500	-1.12	-55.05	≤-21.12	PASS

Test Graphs

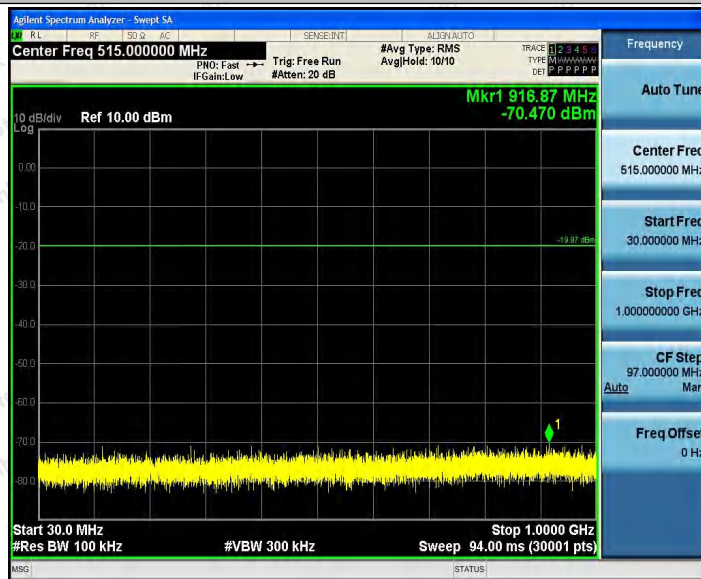




DH5_Ant1_2441_0~Reference



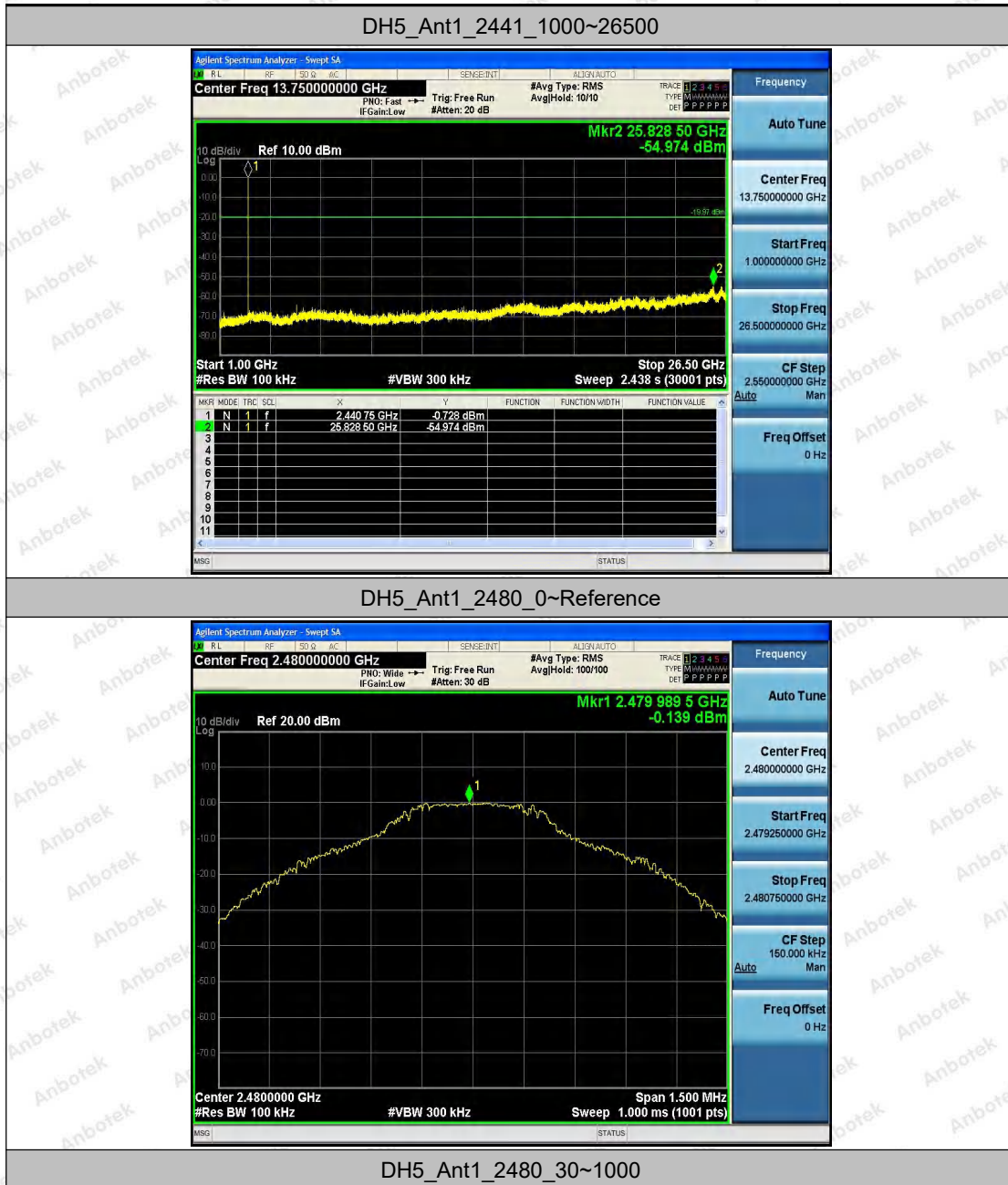
DH5_Ant1_2441_30~1000



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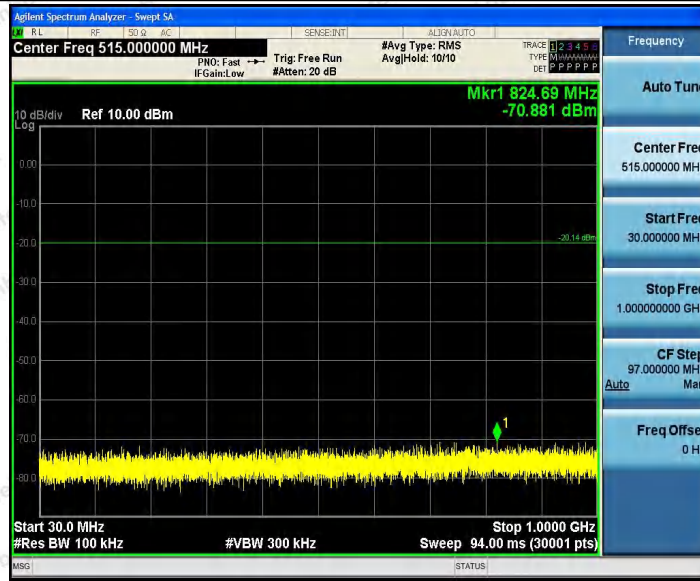
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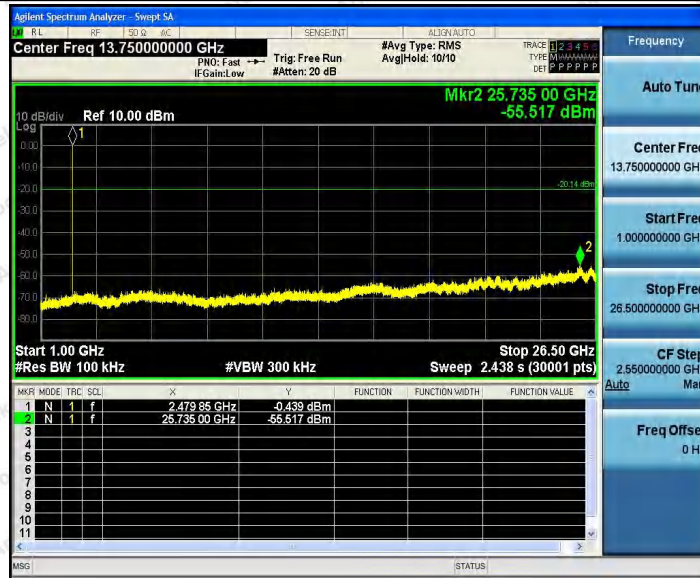
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DH5_Ant1_2480_1000~26500



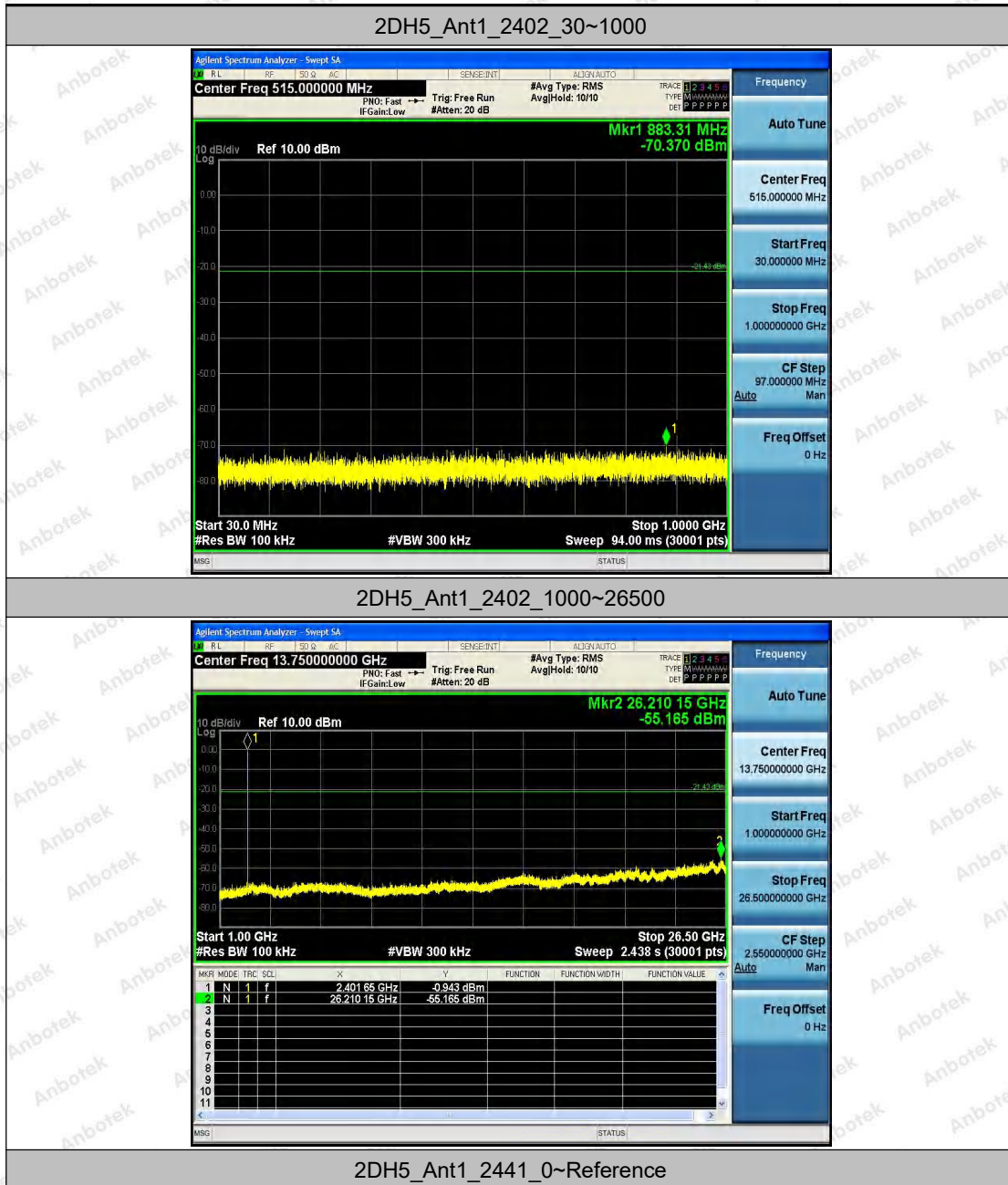
2DH5_Ant1_2402_0~Reference



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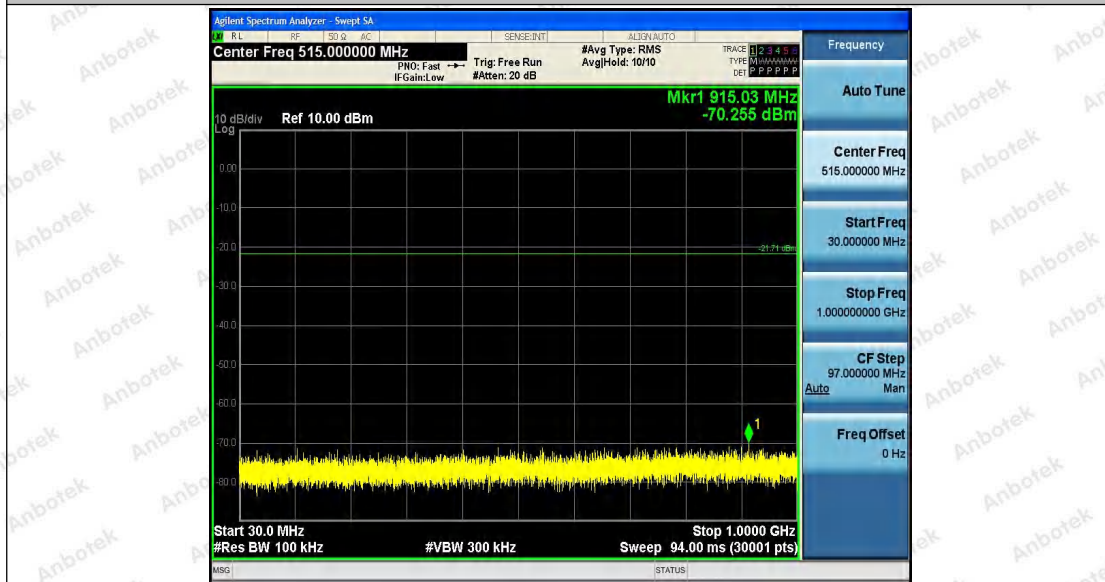
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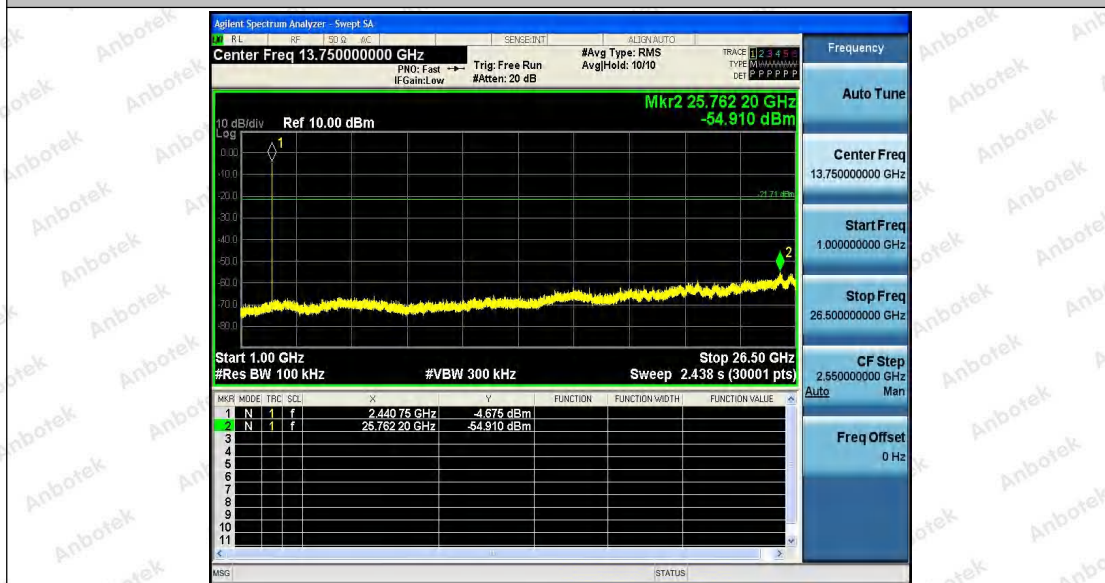
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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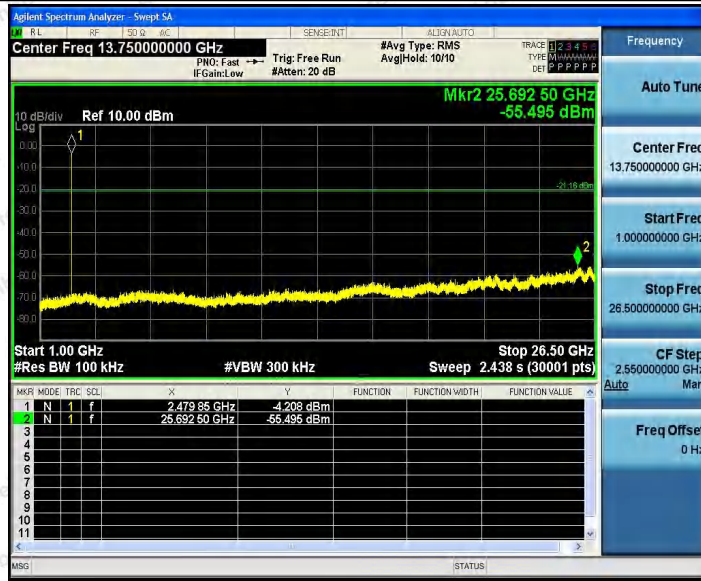
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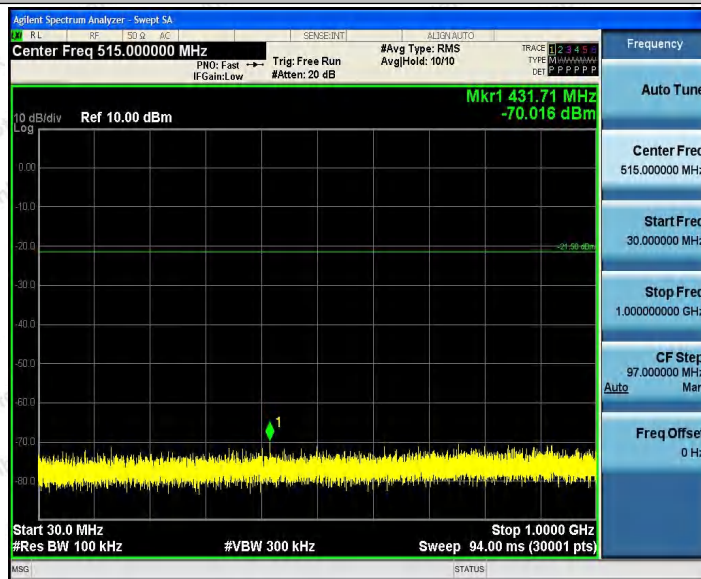
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3DH5_Ant1_2402_0~Reference



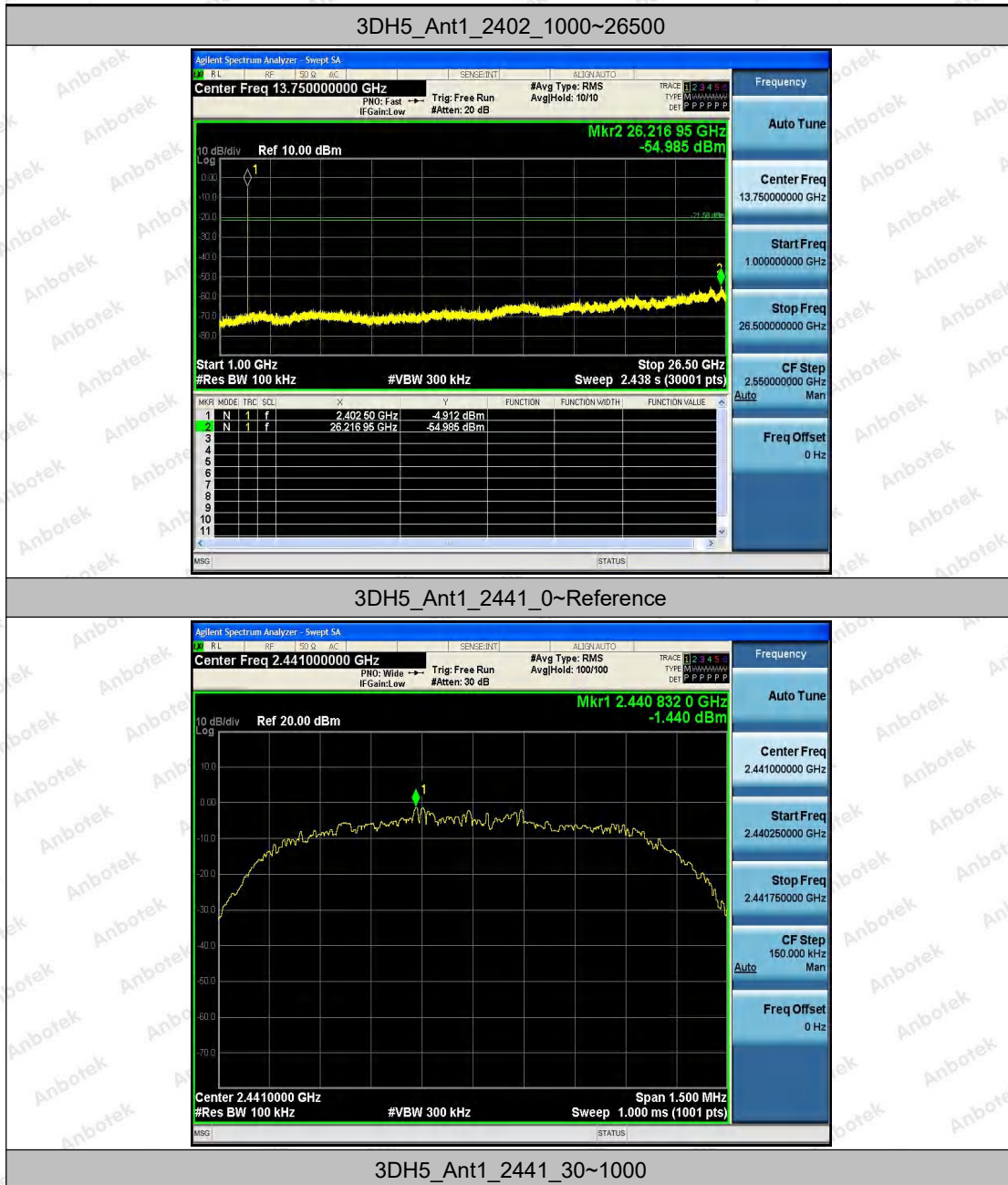
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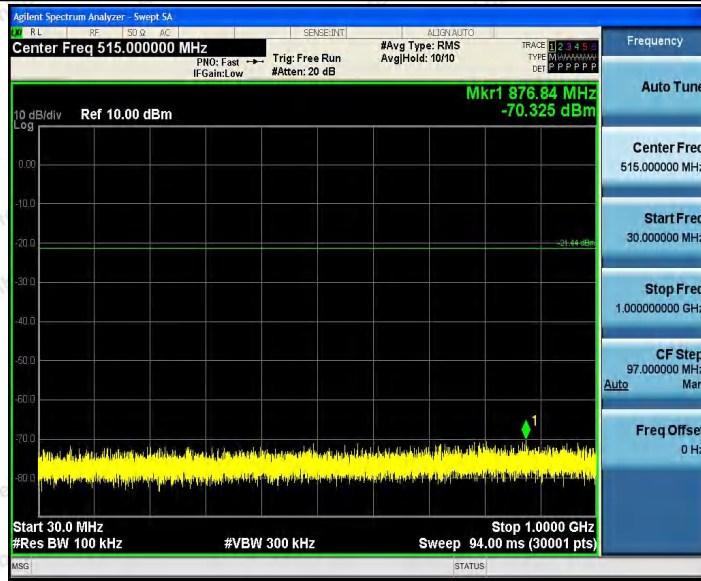
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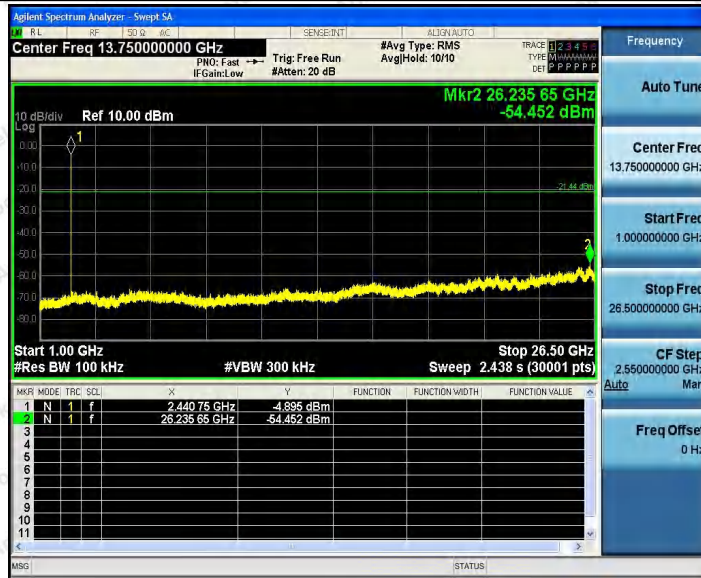
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3DH5_Ant1_2441_1000~26500



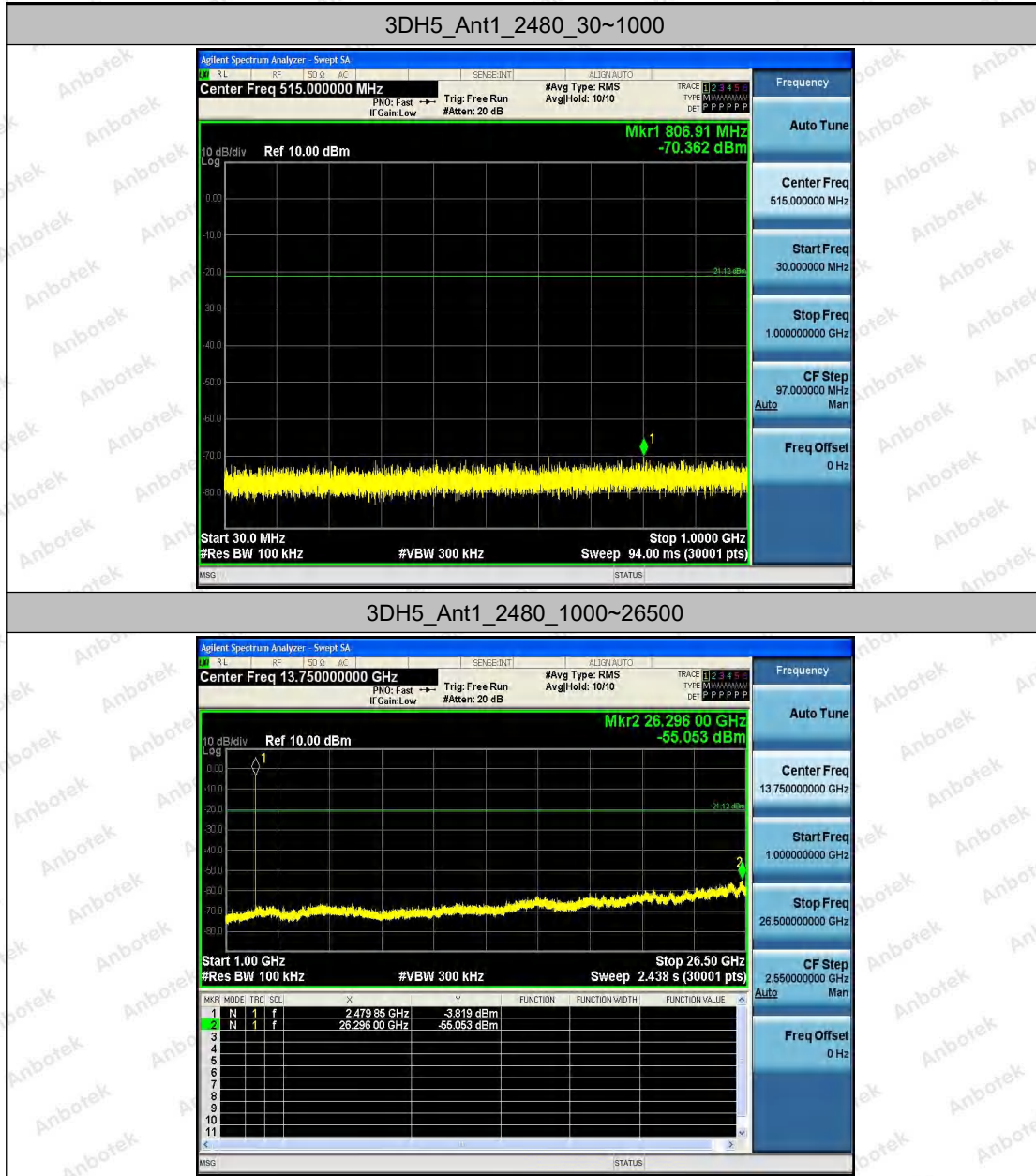
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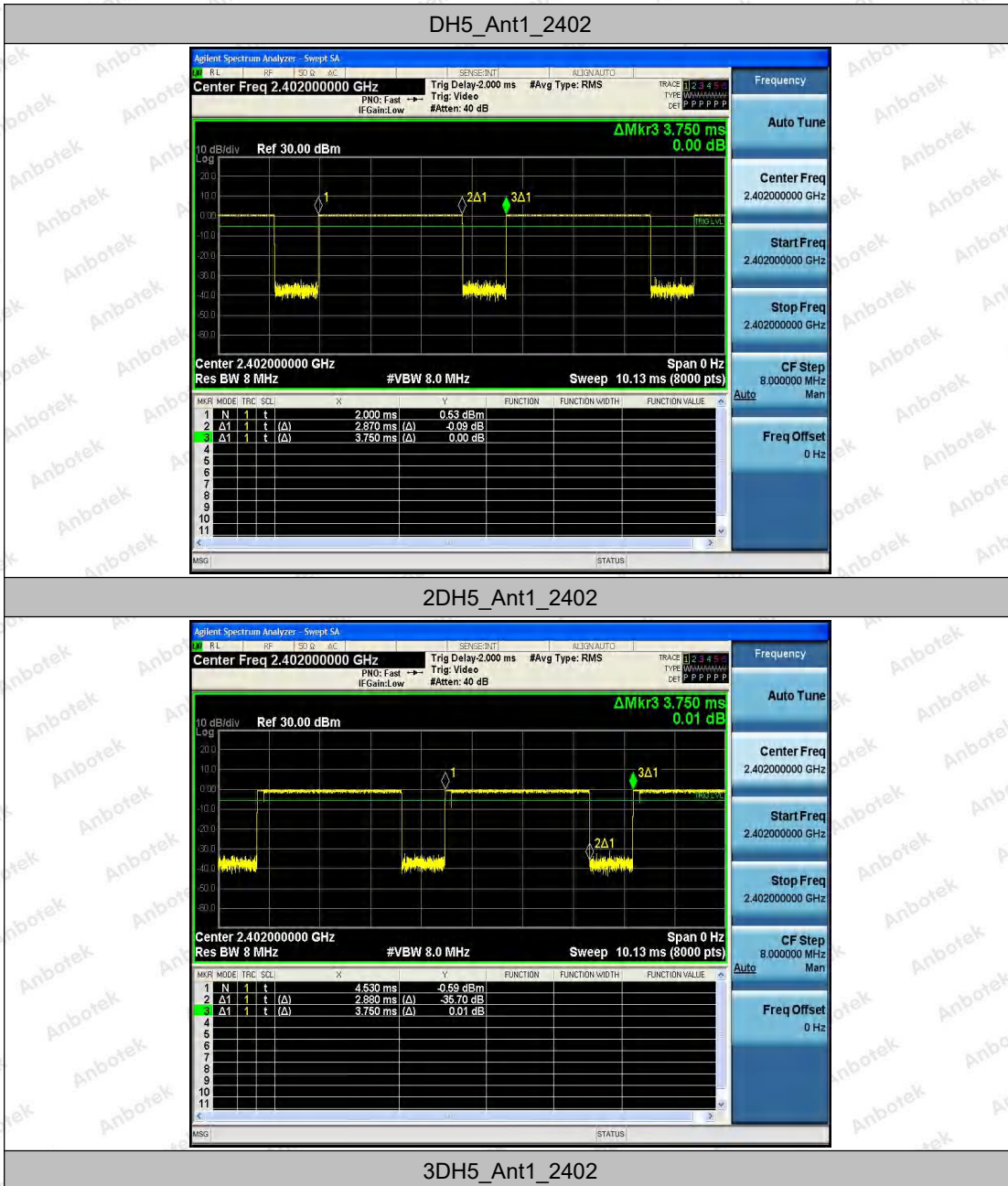
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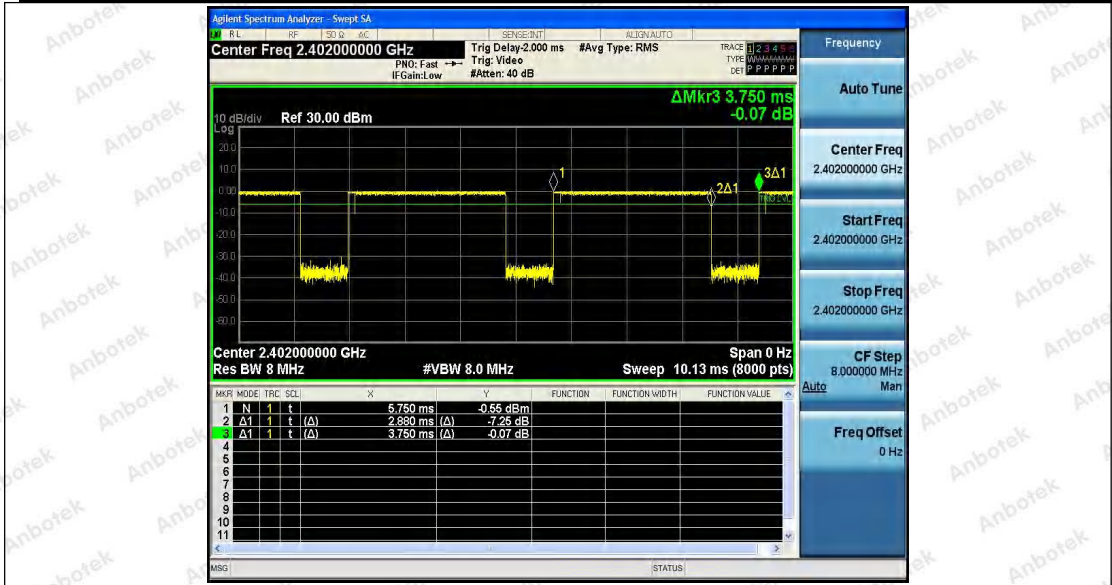
Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	0.7653	76.53	1.16	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS

Test Graphs





---End---