

Appendix Test Data

Report No.:	18220WC10240101	Test Date:	2021.10.30
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3C°	Relative Humidity:	57 %
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	0.948	2401.535	2402.483	---	PASS
		2441	0.948	2440.532	2441.480	---	PASS
		2480	0.939	2479.535	2480.474	---	PASS
2DH5	Ant1	2402	1.266	2401.364	2402.630	---	PASS
		2441	1.263	2440.367	2441.630	---	PASS
		2480	1.323	2479.334	2480.657	---	PASS
3DH5	Ant1	2402	1.311	2401.343	2402.654	---	PASS
		2441	1.335	2440.325	2441.660	---	PASS
		2480	1.317	2479.340	2480.657	---	PASS

Test Graphs

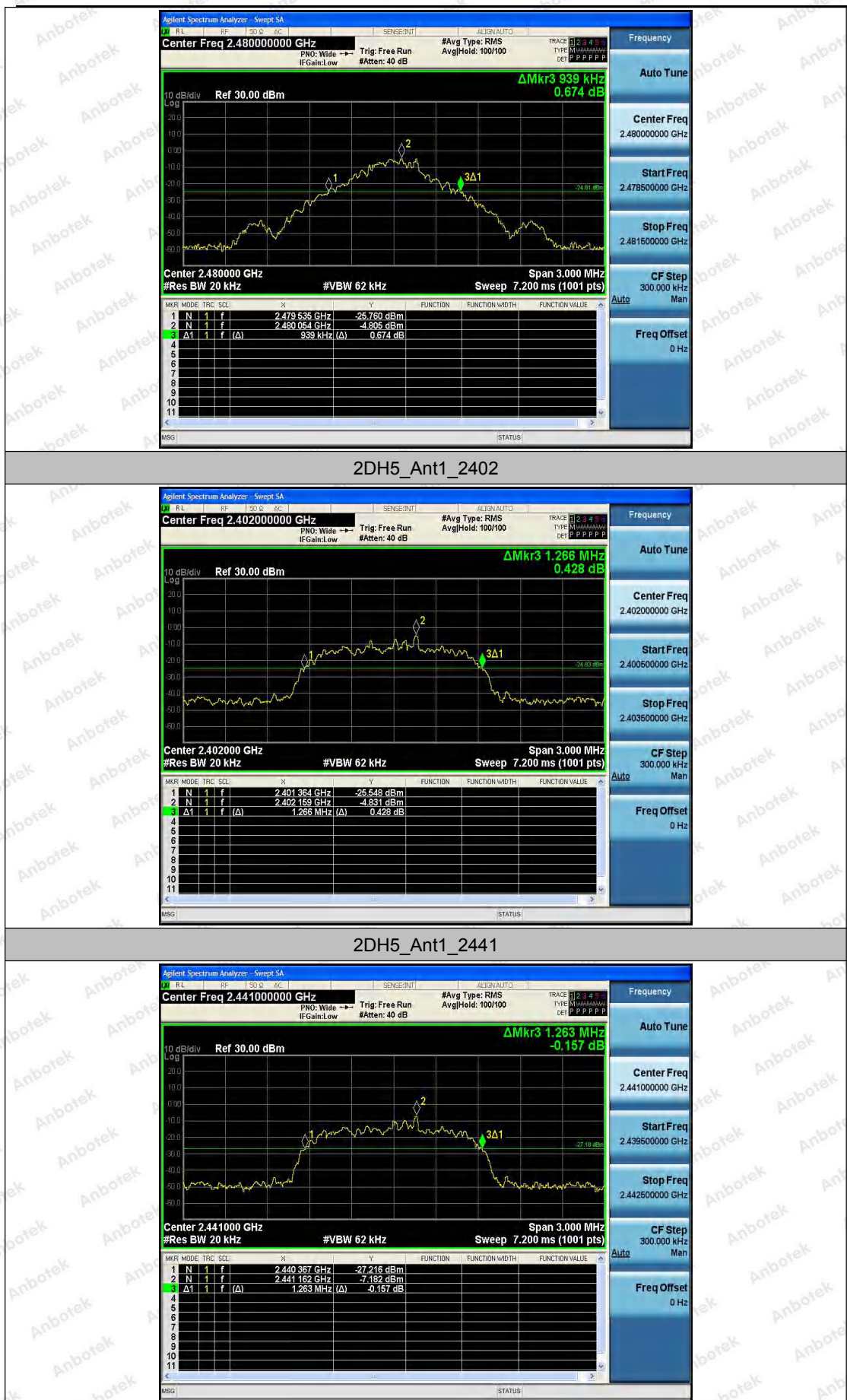


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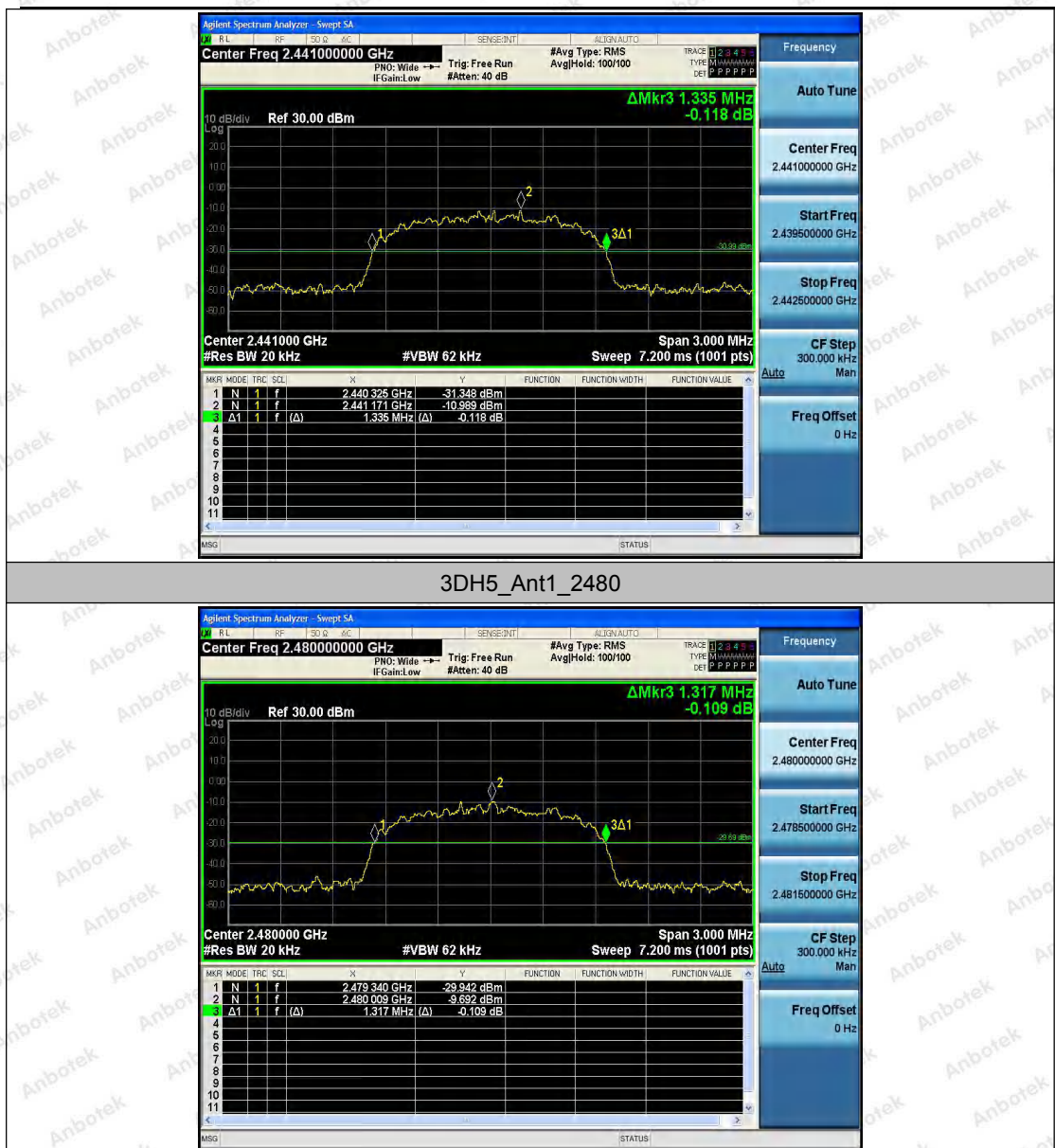
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



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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	0.89558	2401.552	2402.448	---	PASS
		2441	0.89767	2440.549	2441.447	---	PASS
		2480	0.88842	2479.552	2480.441	---	PASS
2DH5	Ant1	2402	1.1922	2401.400	2402.592	---	PASS
		2441	1.1855	2440.402	2441.588	---	PASS
		2480	1.1798	2479.405	2480.585	---	PASS
3DH5	Ant1	2402	1.2075	2401.384	2402.592	---	PASS
		2441	1.2042	2440.387	2441.591	---	PASS
		2480	1.1918	2479.395	2480.587	---	PASS

Test Graphs



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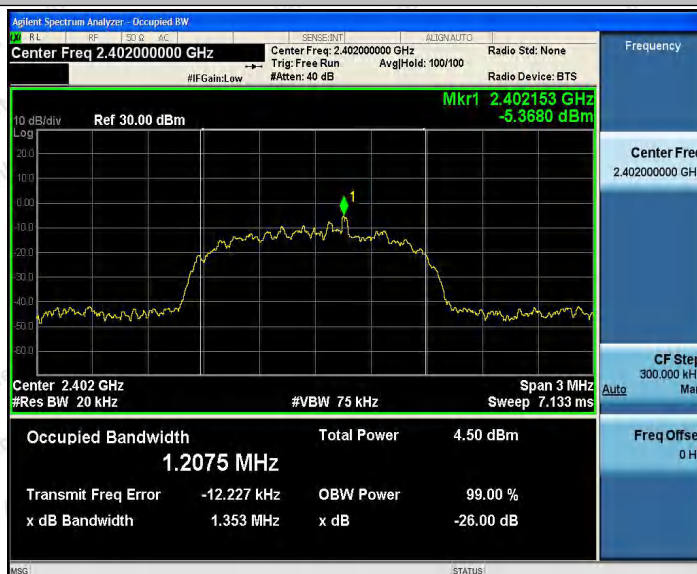
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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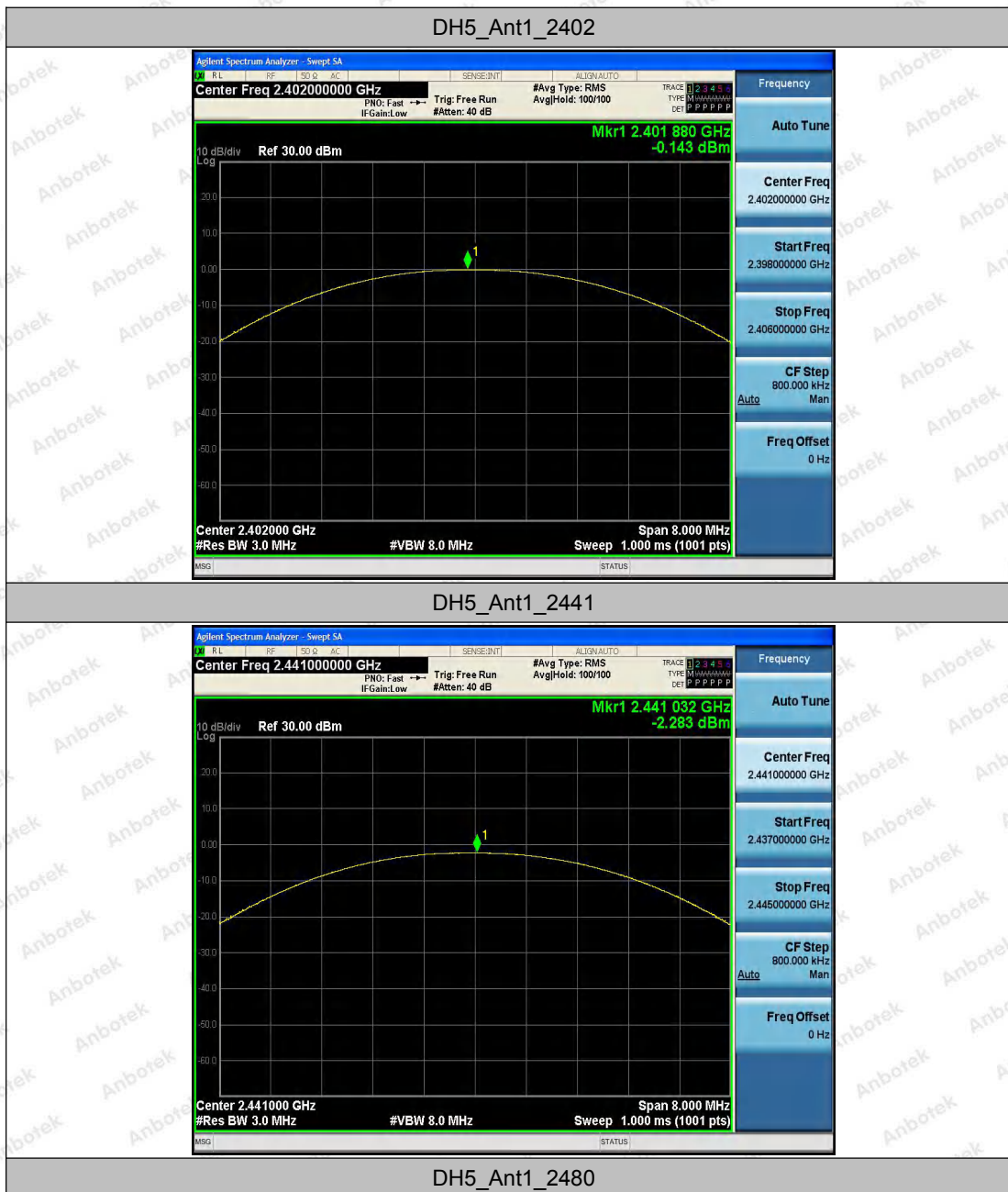
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Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.14	≤30.00	PASS
		2441	-2.28	≤30.00	PASS
		2480	-1.18	≤30.00	PASS
2DH5	Ant1	2402	-0.73	≤20.97	PASS
		2441	-2.96	≤20.97	PASS
		2480	-2	≤20.97	PASS
3DH5	Ant1	2402	-0.71	≤20.97	PASS
		2441	-2.86	≤20.97	PASS
		2480	-1.83	≤20.97	PASS

Test Graphs

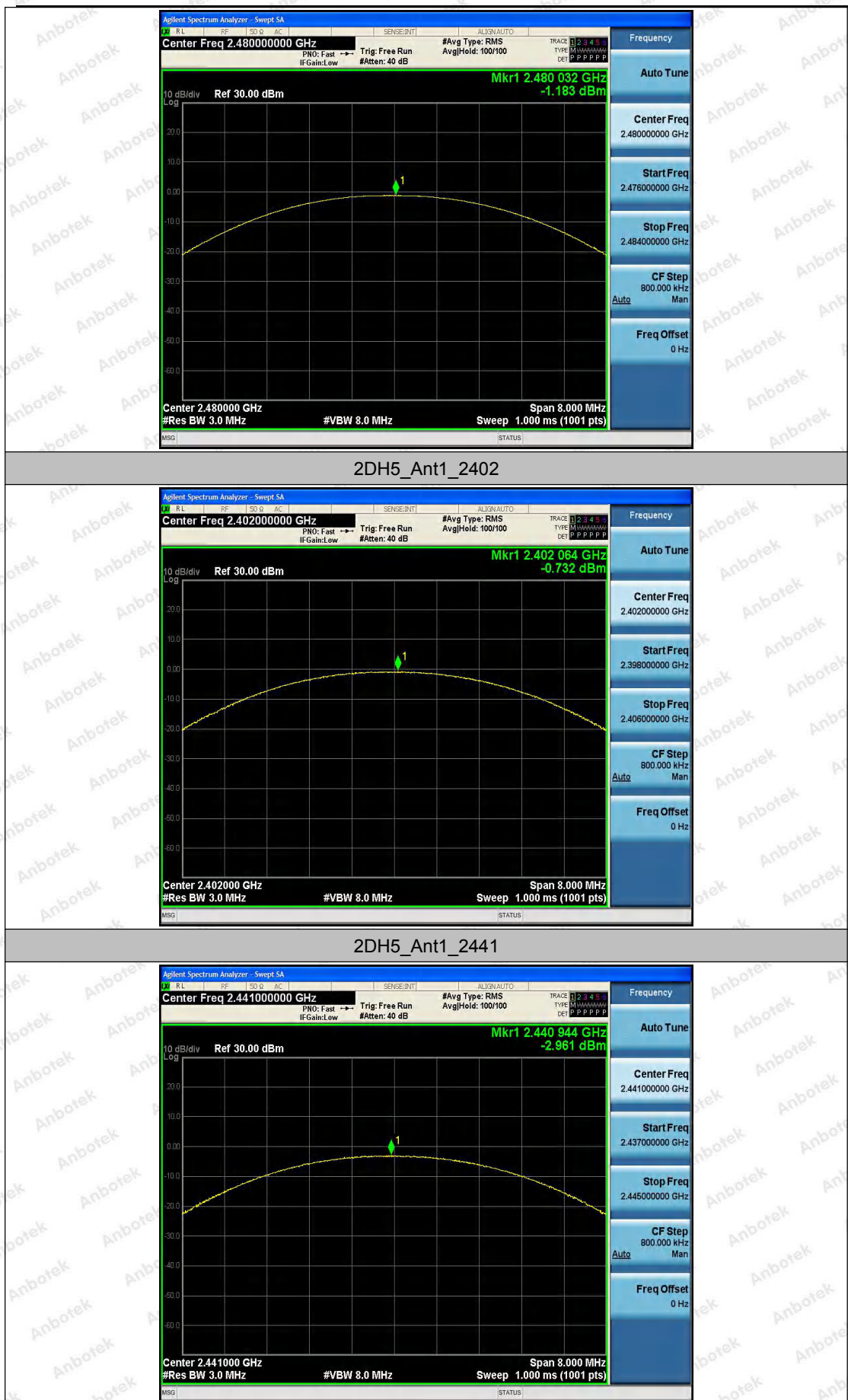


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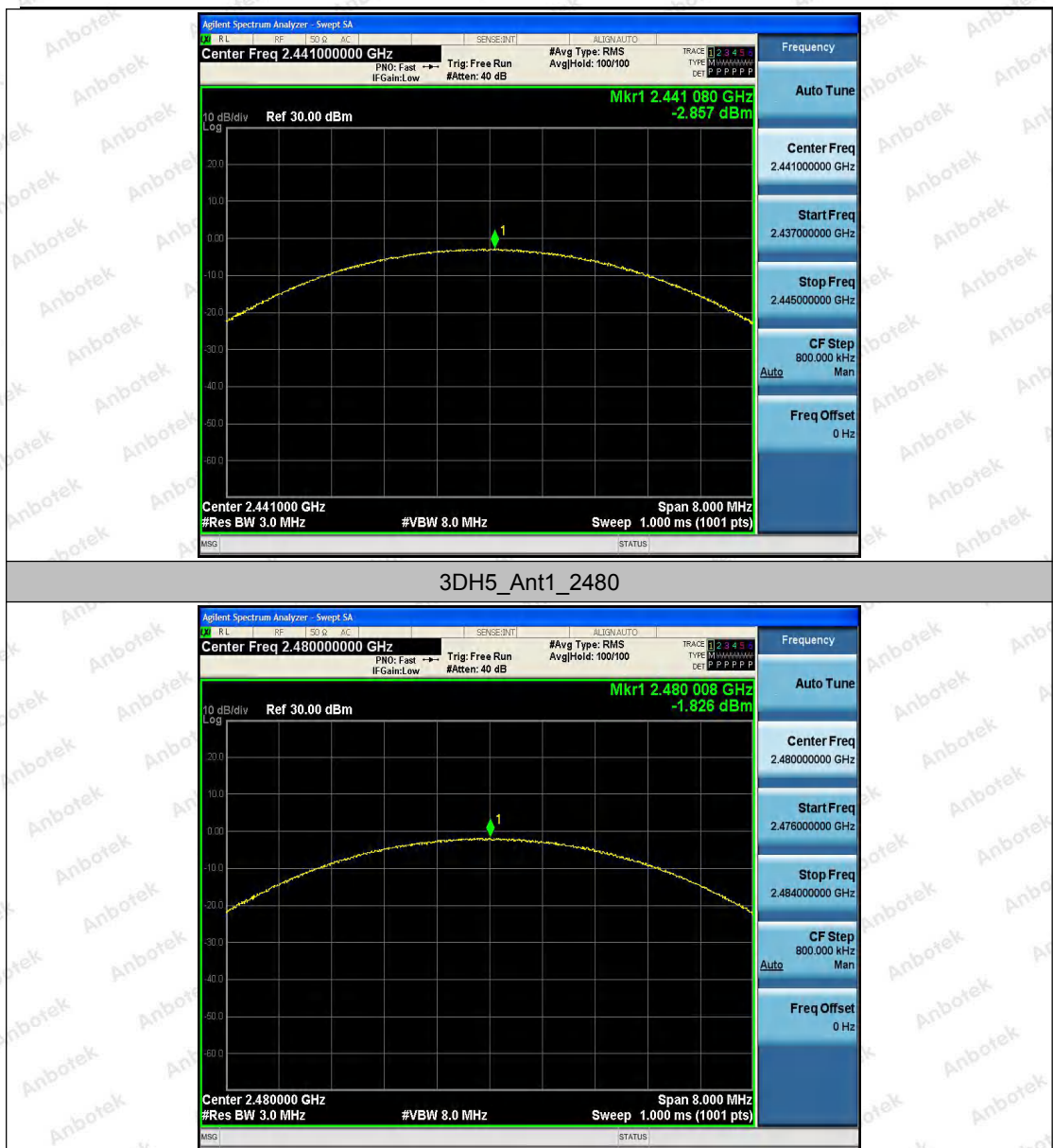
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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.18	≥ 0.948	PASS
2DH5	Ant1	Hop	1.23	≥ 0.882	PASS
3DH5	Ant1	Hop	1.33	≥ 0.890	PASS

Test Graphs



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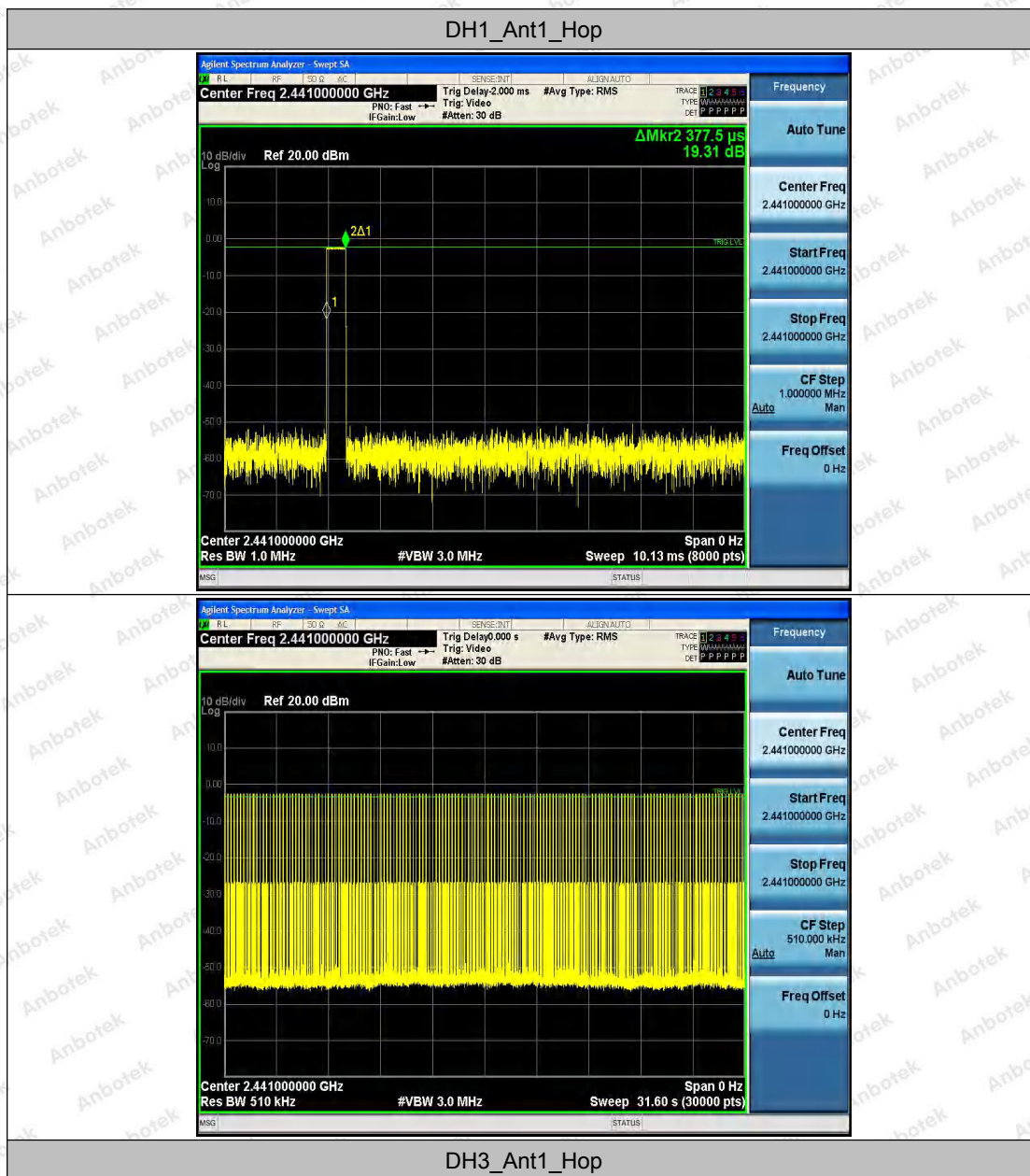
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Appendix E: Time of occupancy

Test Result

Test Mode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.88	104	0.3	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.12	≤0.4	PASS
2DH3	Ant1	Hop	1.64	157	0.257	≤0.4	PASS
2DH5	Ant1	Hop	2.88	113	0.326	≤0.4	PASS
3DH1	Ant1	Hop	0.39	314	0.121	≤0.4	PASS
3DH3	Ant1	Hop	1.64	157	0.257	≤0.4	PASS
3DH5	Ant1	Hop	2.89	100	0.289	≤0.4	PASS

Test Graphs



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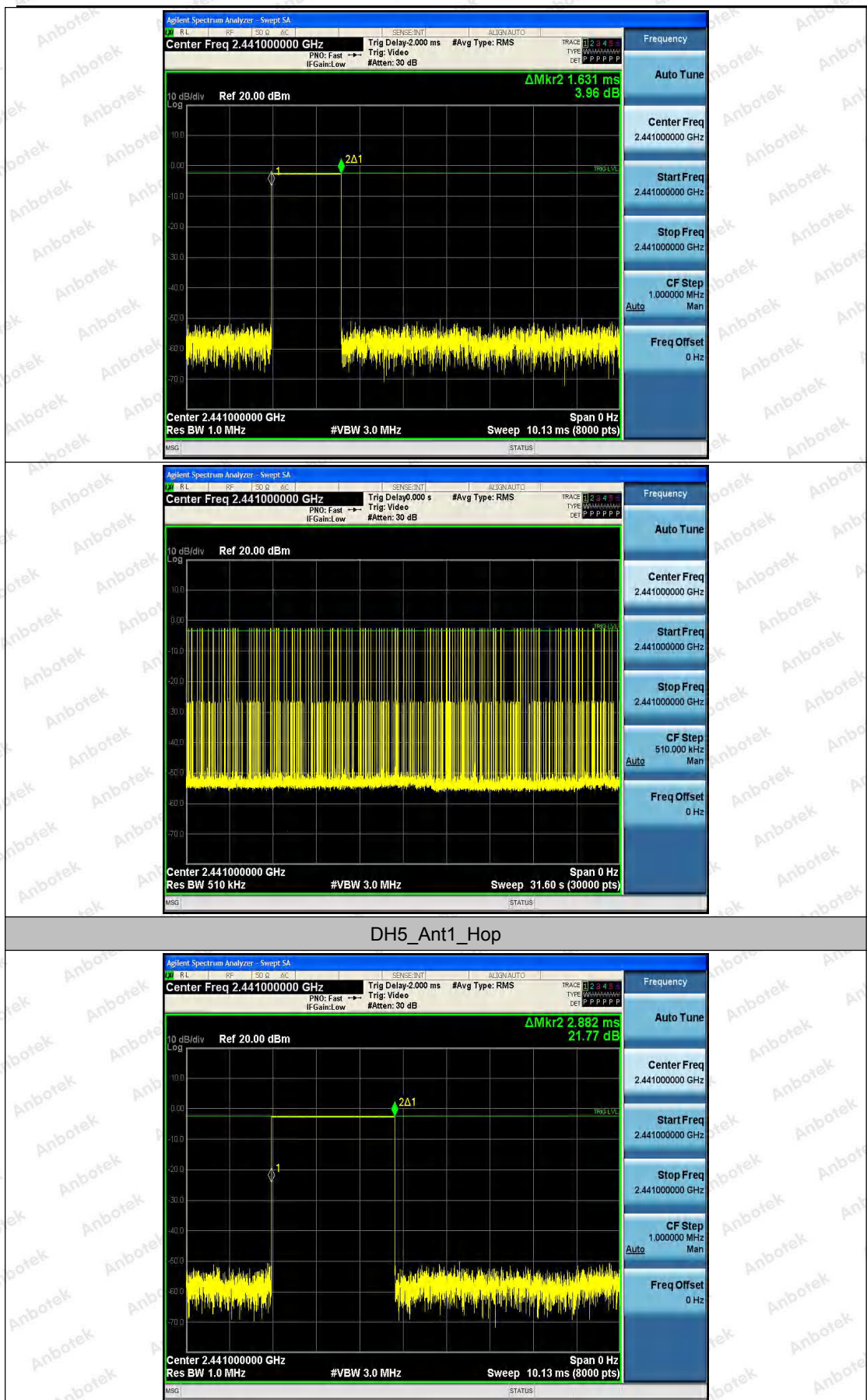
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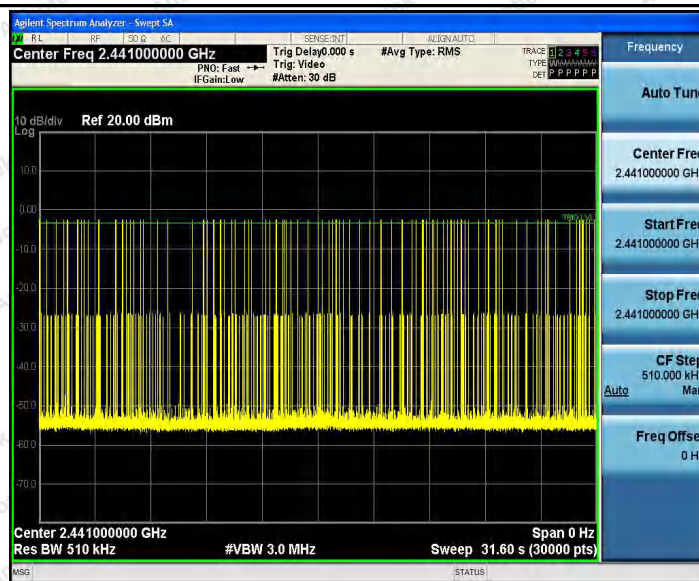
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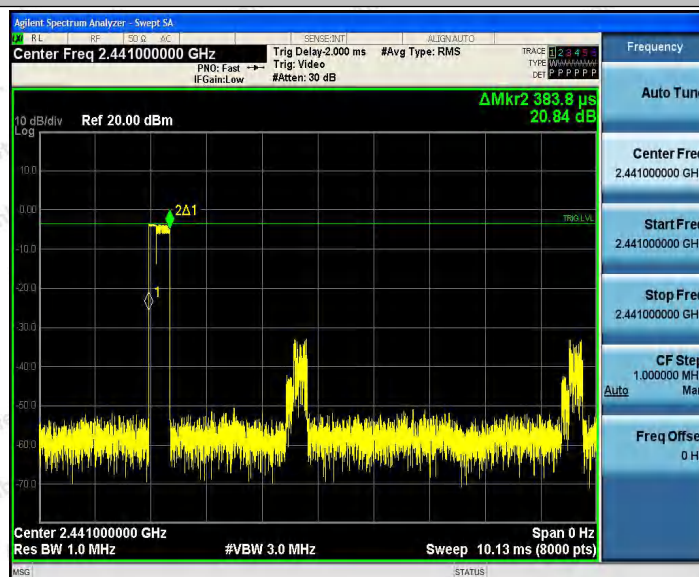
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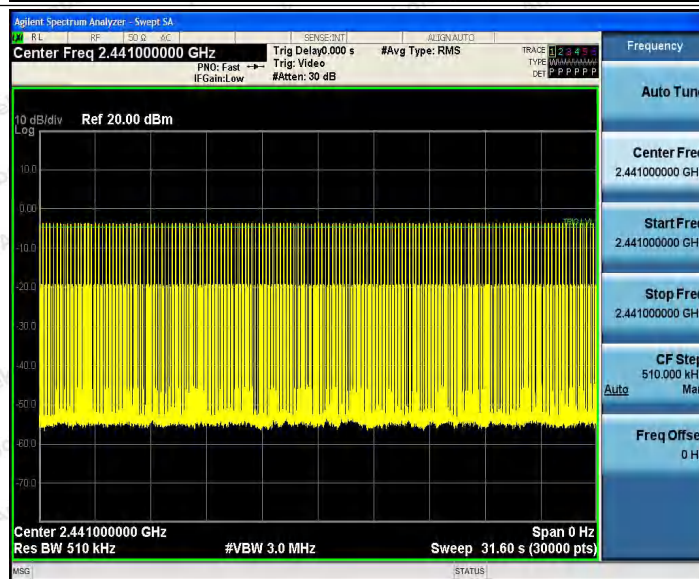
DH5_Ant1_Hop



2DH1_Ant1_Hop



2DH3_Ant1_Hop



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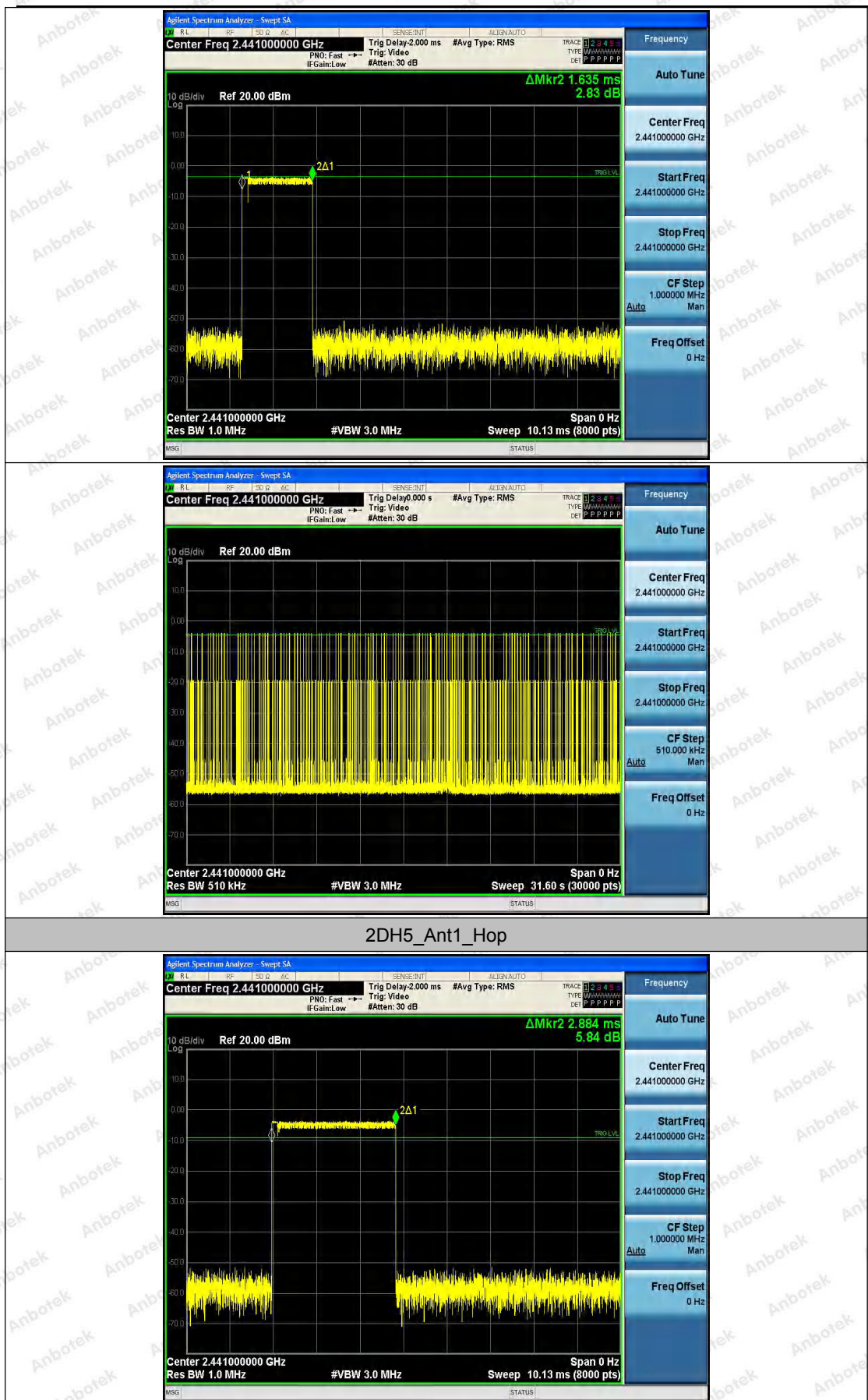
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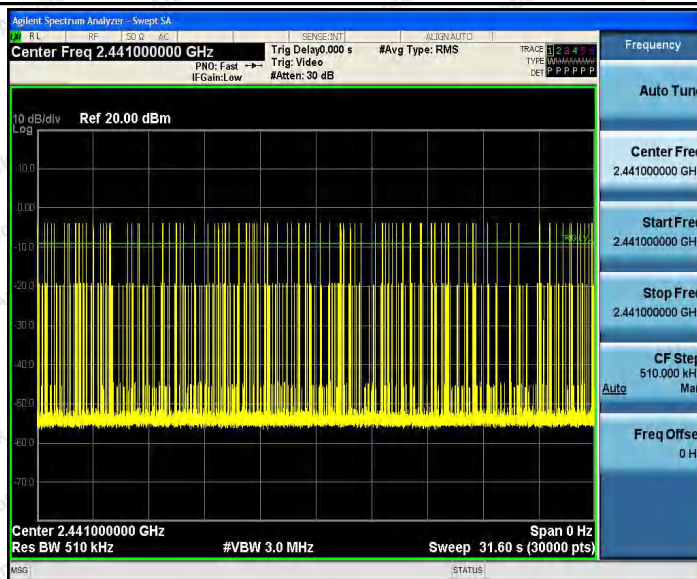


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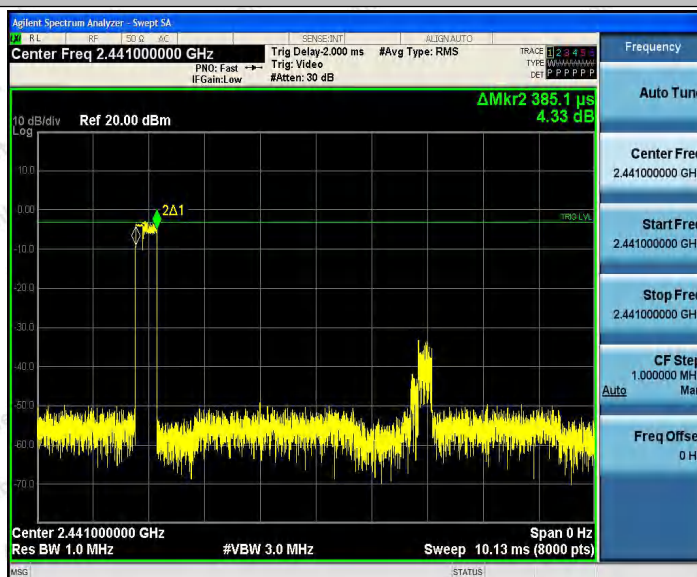
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3DH1_Ant1_Hop



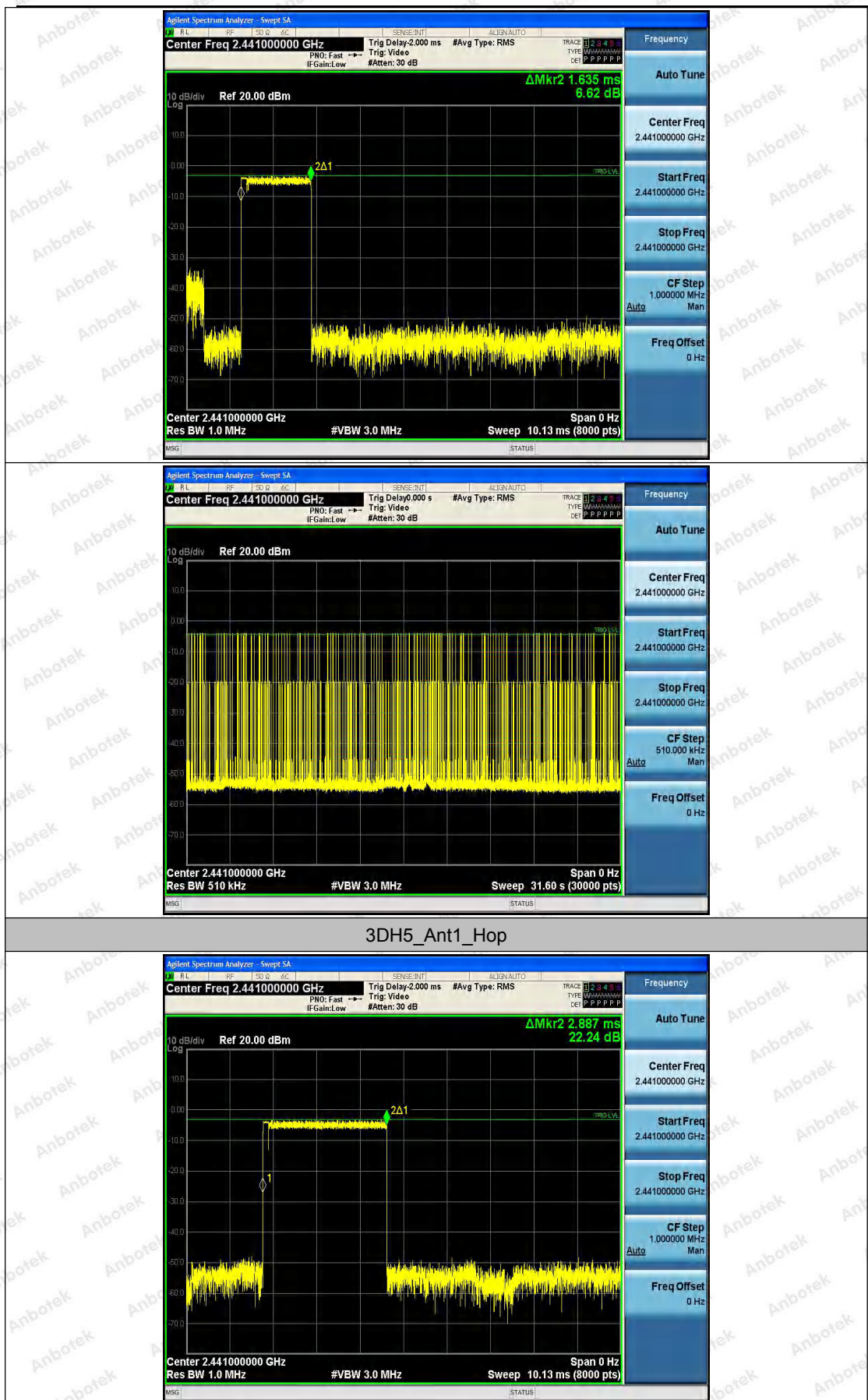
3DH3_Ant1_Hop

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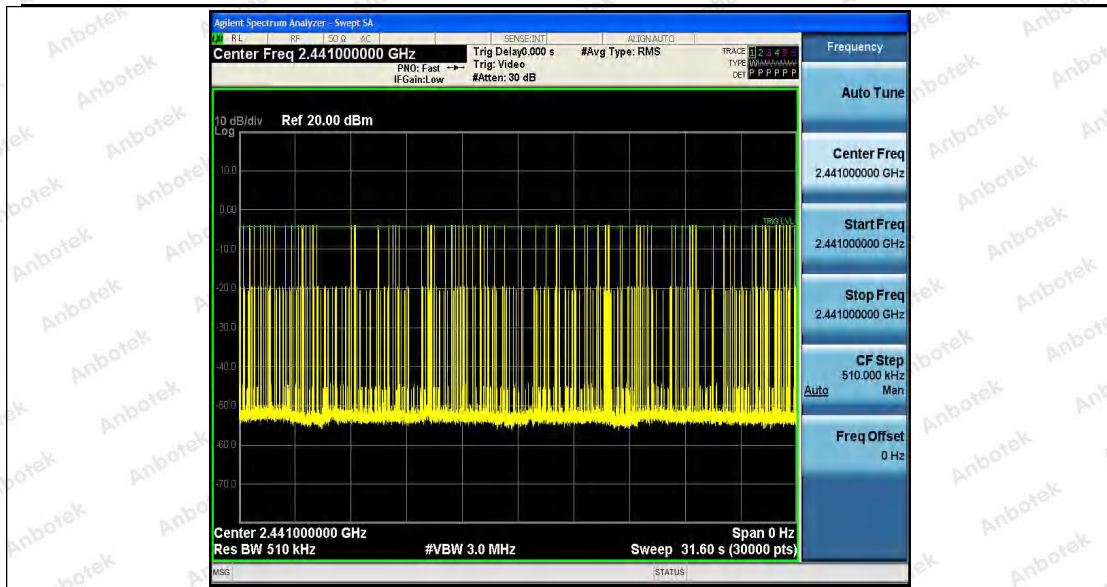
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3DH5_Ant1_Hop



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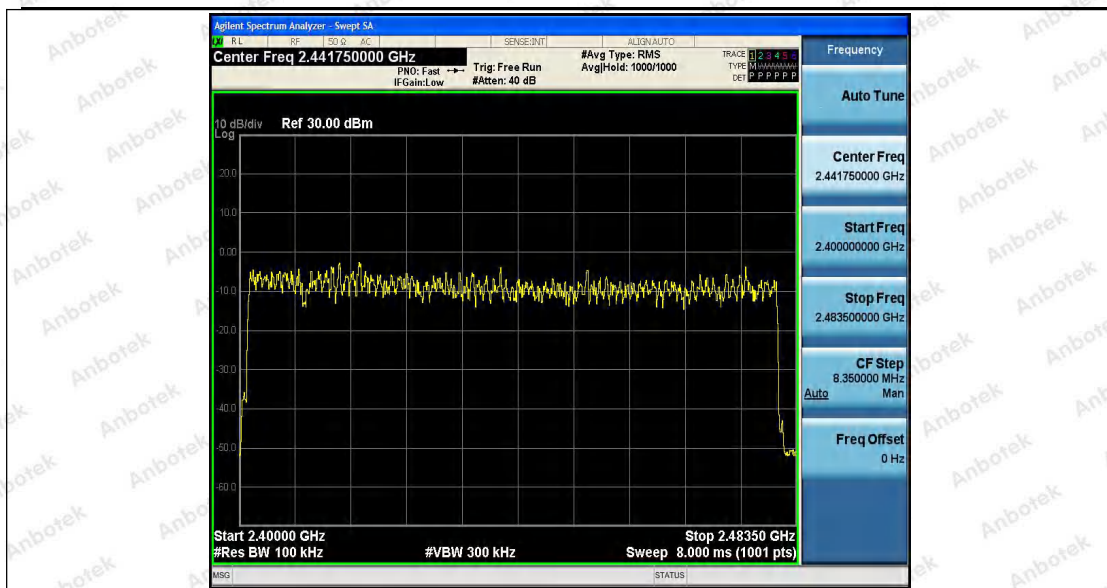
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Appendix F: Number of hopping channels

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



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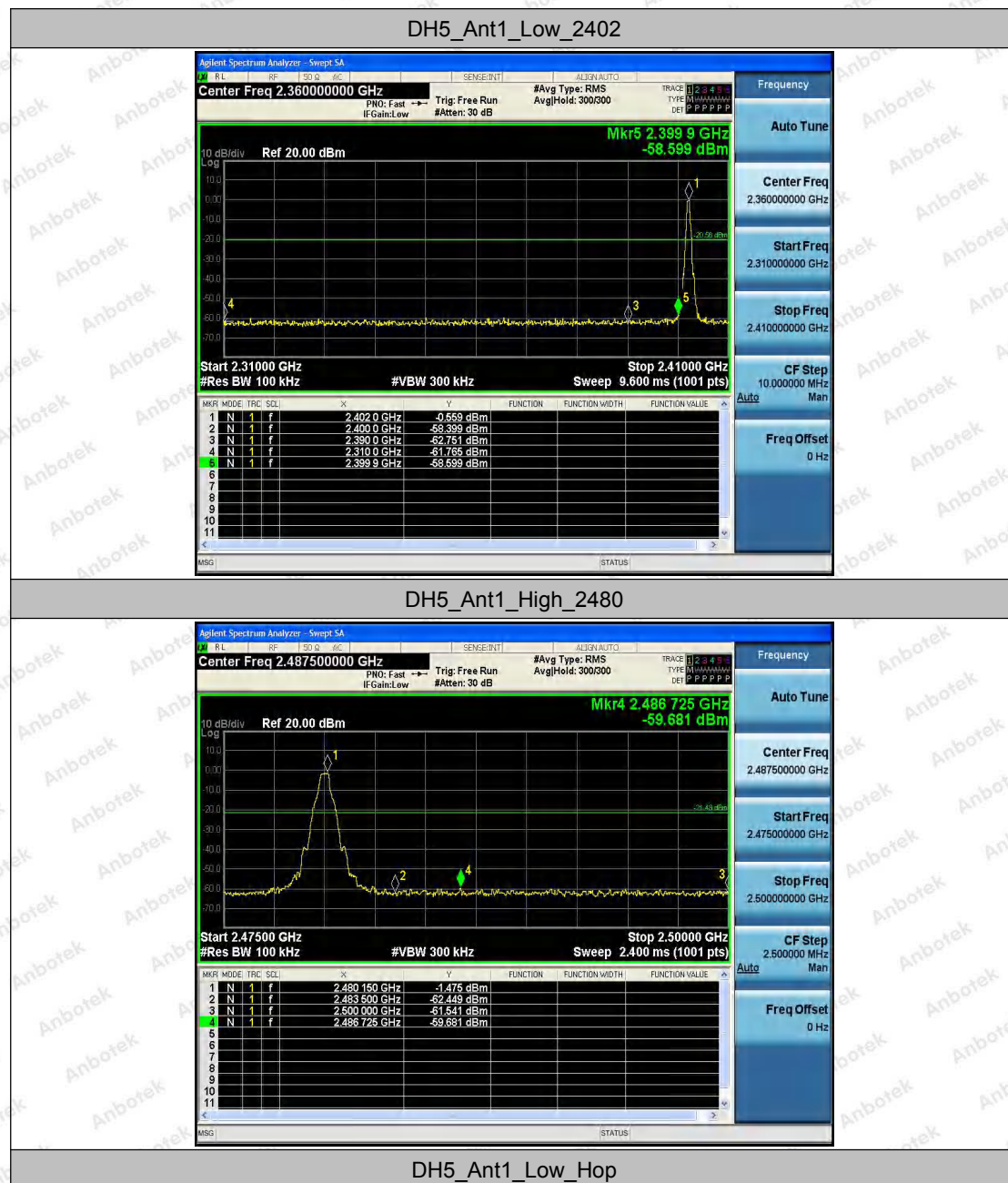
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Appendix G: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.56	-58.6	≤-20.56	PASS
		High	2480	-1.48	-59.68	≤-21.48	PASS
		Low	Hop	-0.92	-59.76	≤-20.92	PASS
		High	Hop	-1.82	-61.84	≤-21.82	PASS
2DH5	Ant1	Low	2402	-1.72	-57.73	≤-21.72	PASS
		High	2480	-3.41	-59.22	≤-23.41	PASS
		Low	Hop	-5.06	-59.53	≤-25.06	PASS
		High	Hop	-4.00	-62.53	≤-24	PASS
3DH5	Ant1	Low	2402	-1.53	-57.37	≤-21.53	PASS
		High	2480	-2.96	-58.98	≤-22.96	PASS
		Low	Hop	-2.32	-59.84	≤-22.32	PASS
		High	Hop	-4.91	-61.82	≤-24.91	PASS

Test Graphs

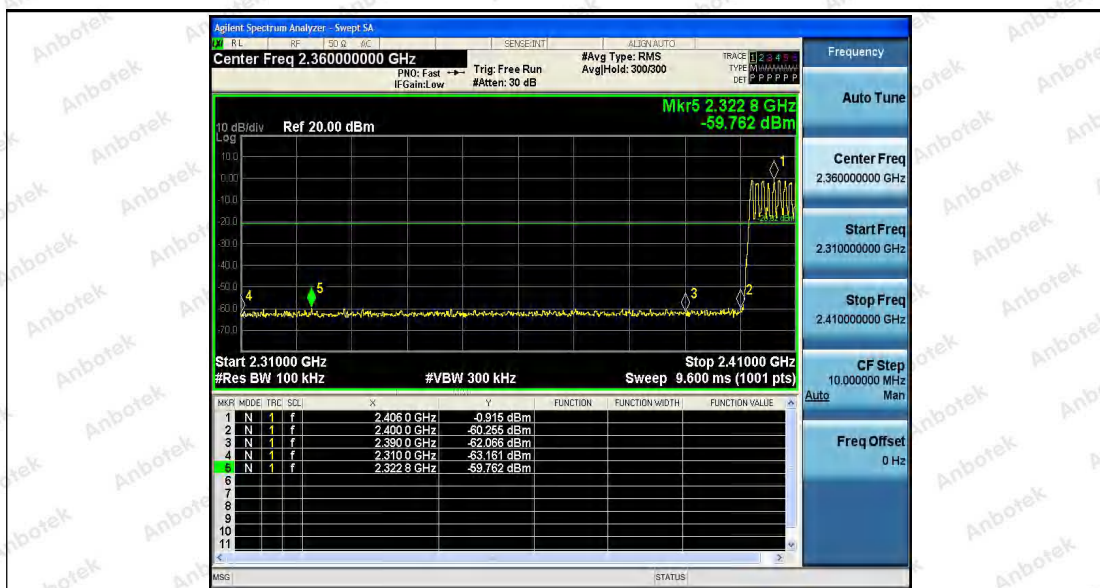


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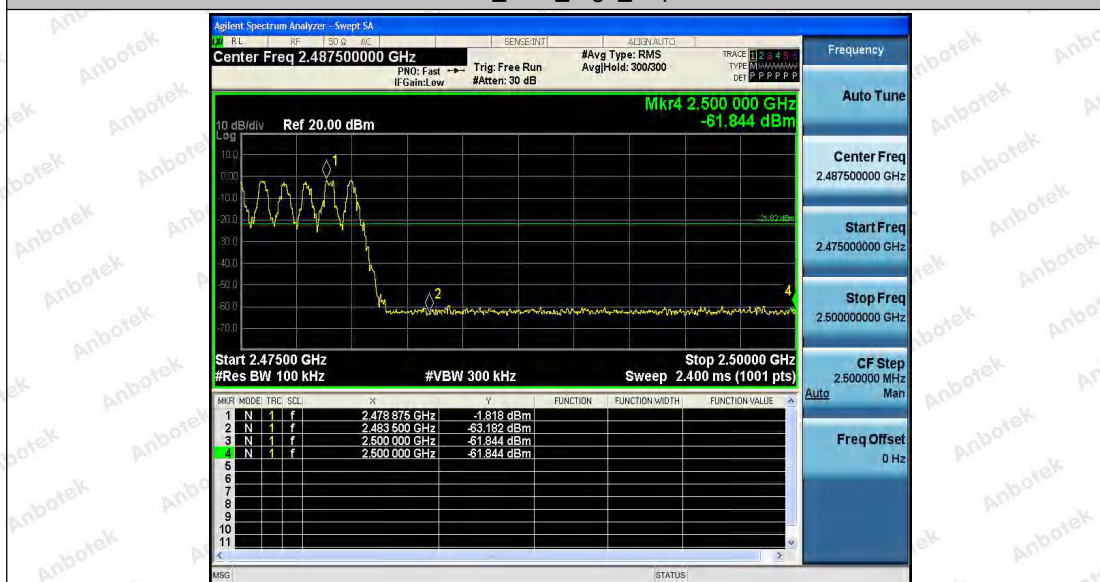
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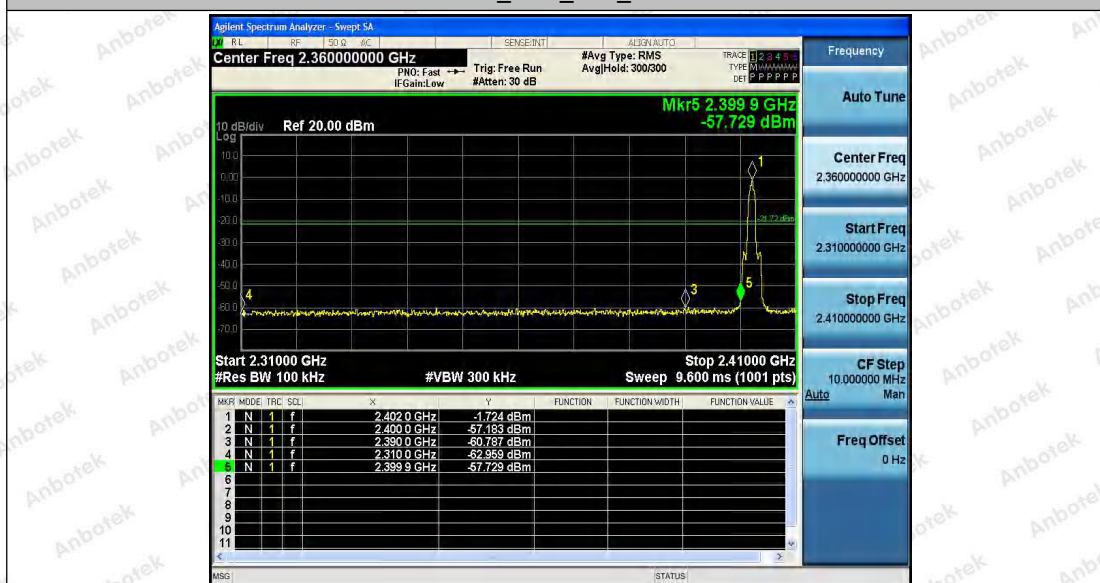
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



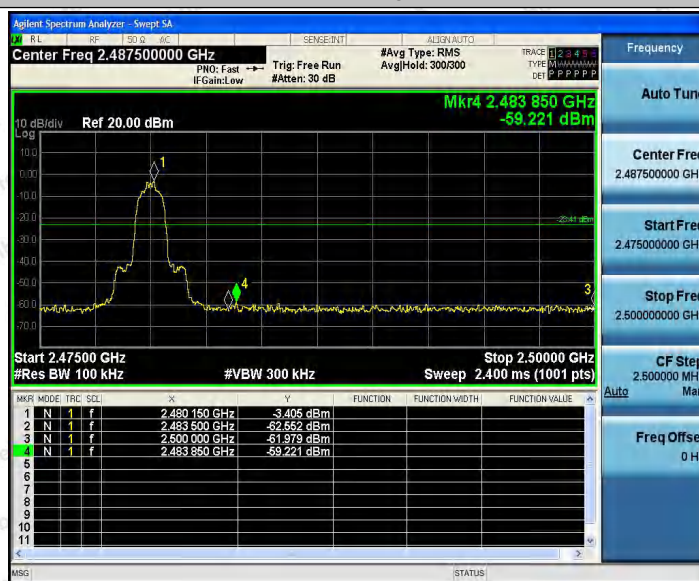
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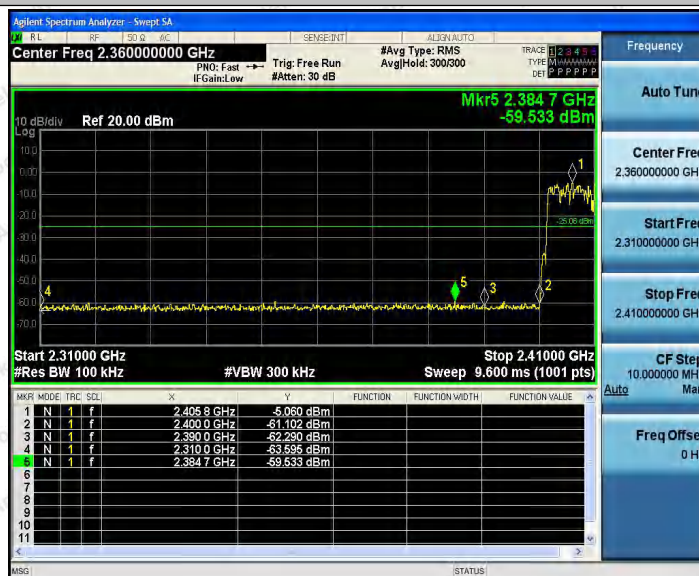
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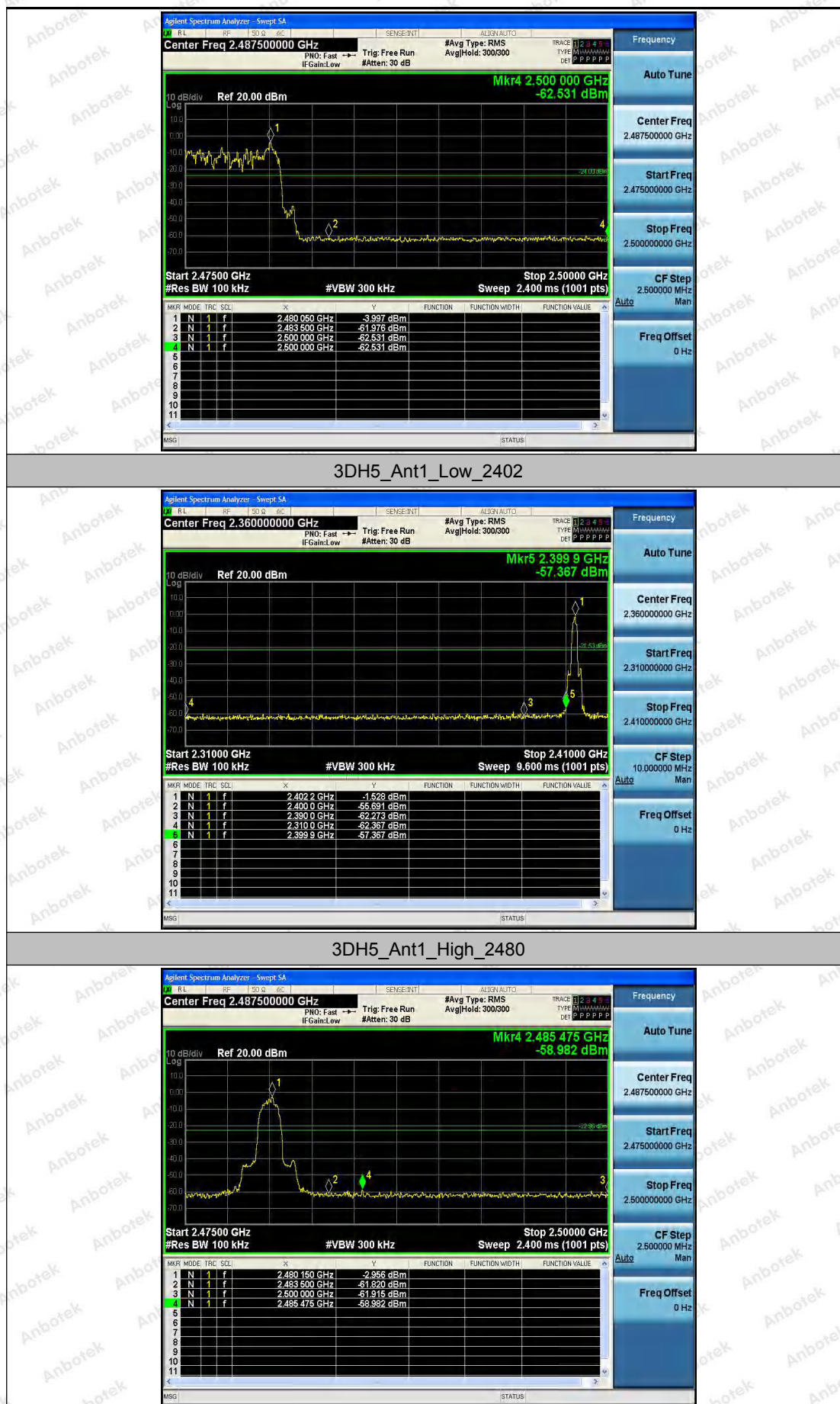
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



2DH5_Ant1_High_Hop

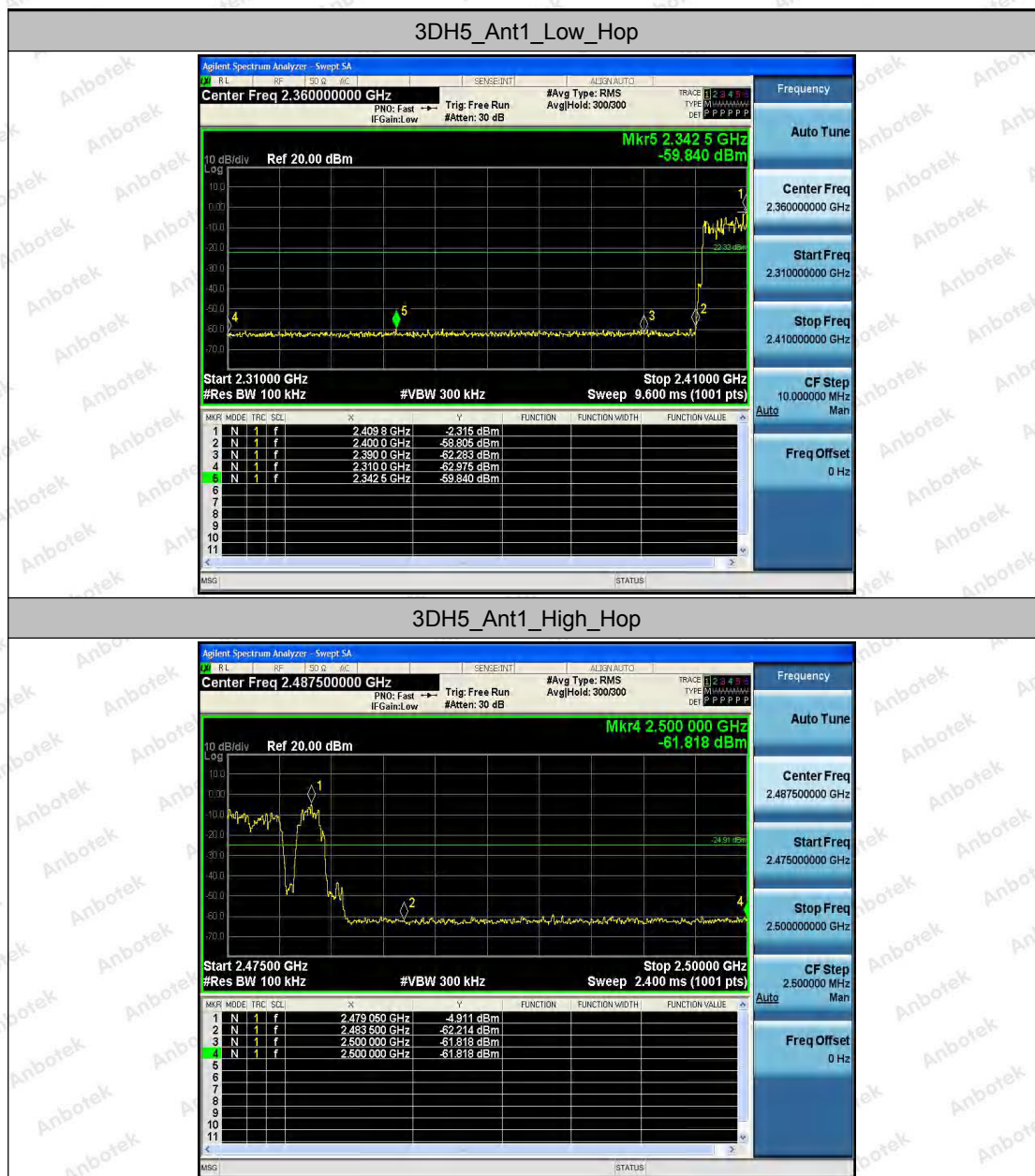


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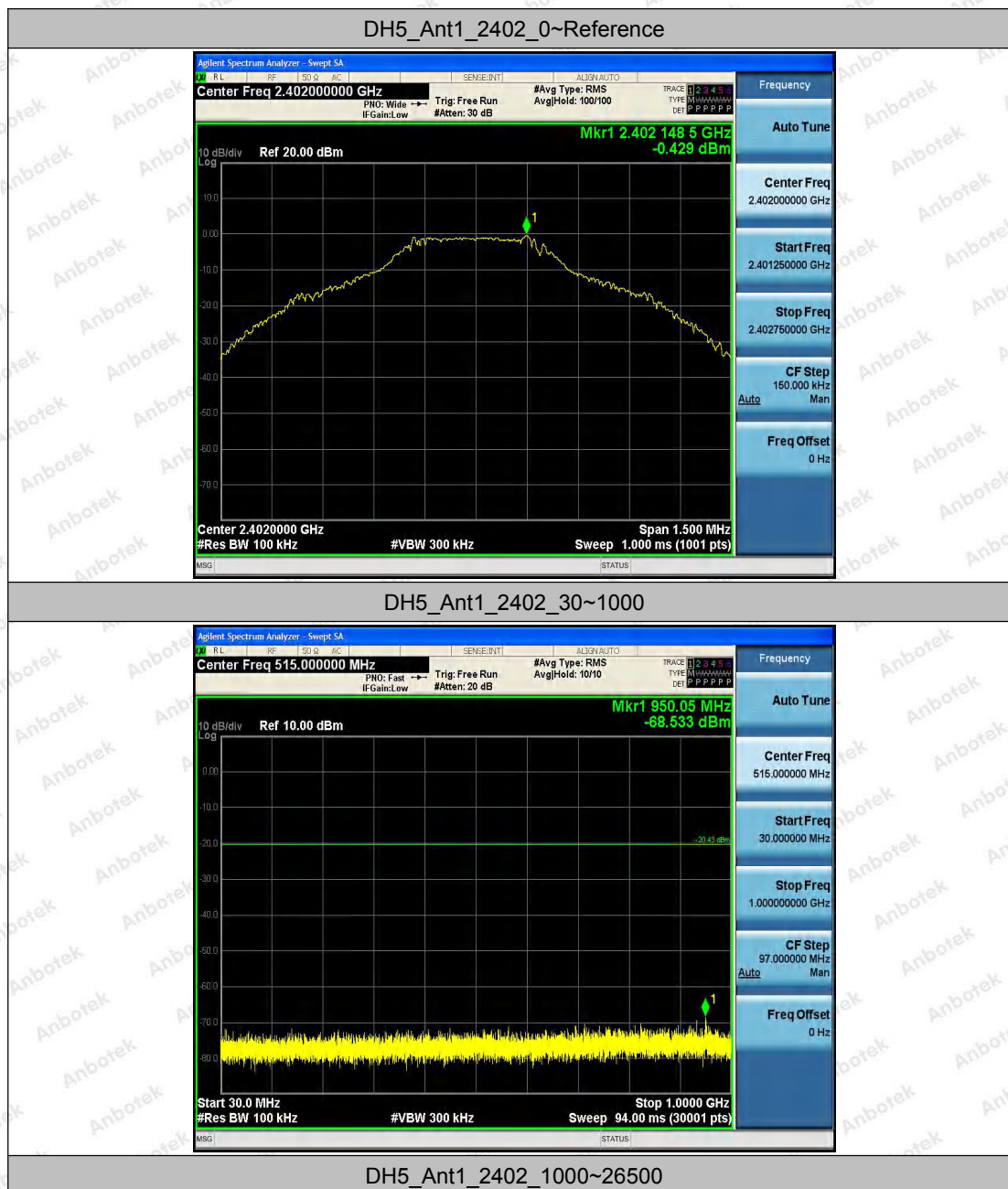
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Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.43	-0.43	---	PASS
			30~1000	-0.43	-68.53	≤-20.43	PASS
			1000~26500	-0.43	-41.55	≤-20.43	PASS
		2441	Reference	-2.61	-2.61	---	PASS
			30~1000	-2.61	-70.02	≤-22.61	PASS
			1000~26500	-2.61	-46.37	≤-22.61	PASS
		2480	Reference	-1.66	-1.66	---	PASS
			30~1000	-1.66	-68.73	≤-21.66	PASS
			1000~26500	-1.66	-47.31	≤-21.66	PASS
2DH5	Ant1	2402	Reference	-1.60	-1.60	---	PASS
			30~1000	-1.60	-70.55	≤-21.6	PASS
			1000~26500	-1.60	-43.63	≤-21.6	PASS
		2441	Reference	-4.66	-4.66	---	PASS
			30~1000	-4.66	-70.83	≤-24.66	PASS
			1000~26500	-4.66	-50.56	≤-24.66	PASS
		2480	Reference	-3.28	-3.28	---	PASS
			30~1000	-3.28	-70.09	≤-23.28	PASS
			1000~26500	-3.28	-53.37	≤-23.28	PASS
3DH5	Ant1	2402	Reference	-1.57	-1.57	---	PASS
			30~1000	-1.57	-68.89	≤-21.57	PASS
			1000~26500	-1.57	-43.96	≤-21.57	PASS
		2441	Reference	-4.54	-4.54	---	PASS
			30~1000	-4.54	-69.99	≤-24.54	PASS
			1000~26500	-4.54	-39.97	≤-24.54	PASS
		2480	Reference	-3.01	-3.01	---	PASS
			30~1000	-3.01	-68.33	≤-23.01	PASS
			1000~26500	-3.01	-52.15	≤-23.01	PASS

Test Graphs



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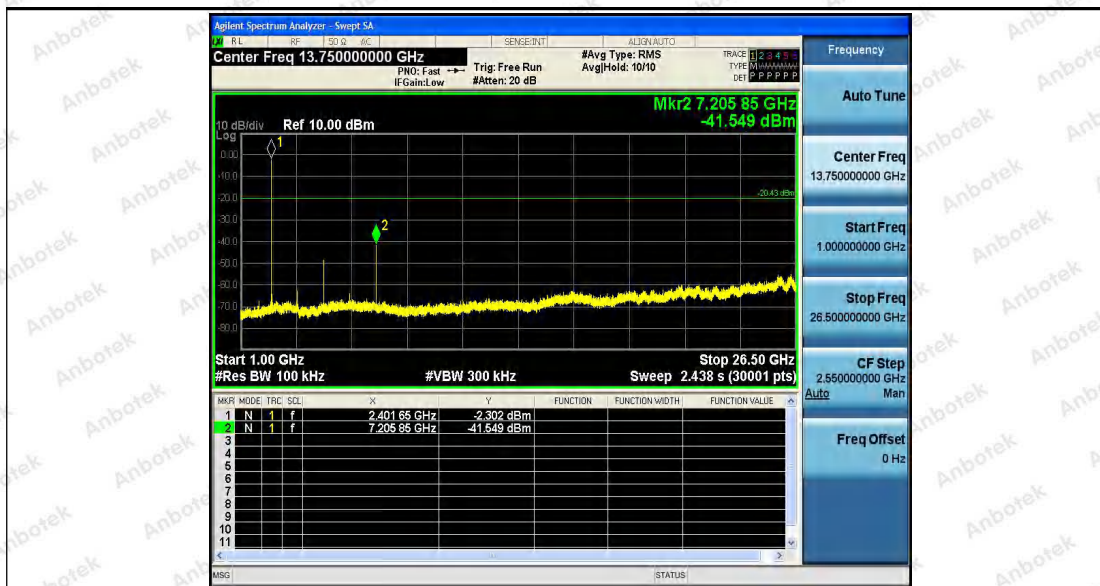
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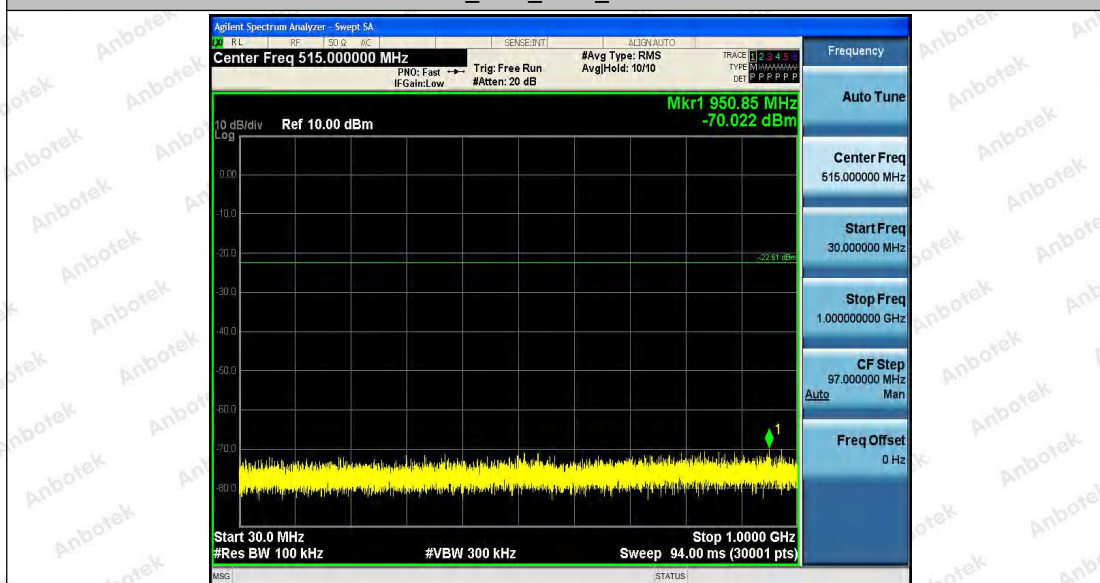
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



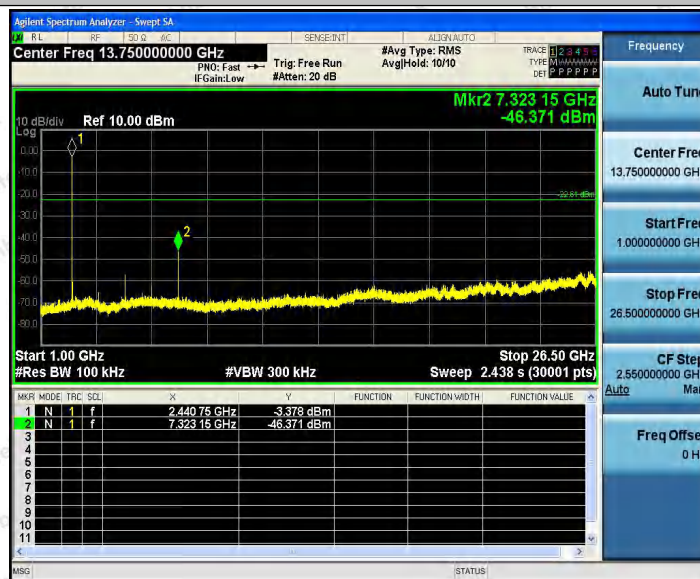
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



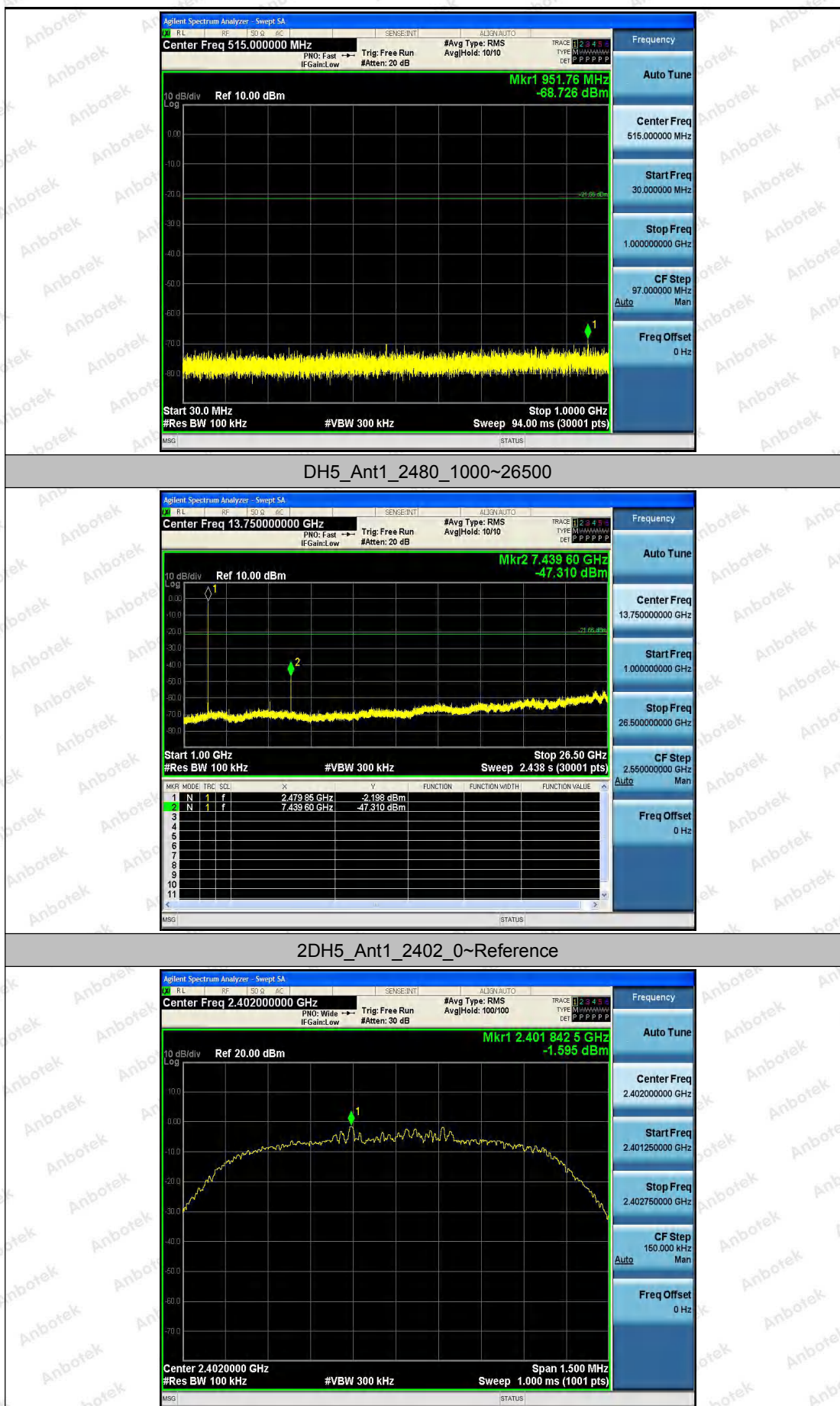
DH5_Ant1_2480_30~1000

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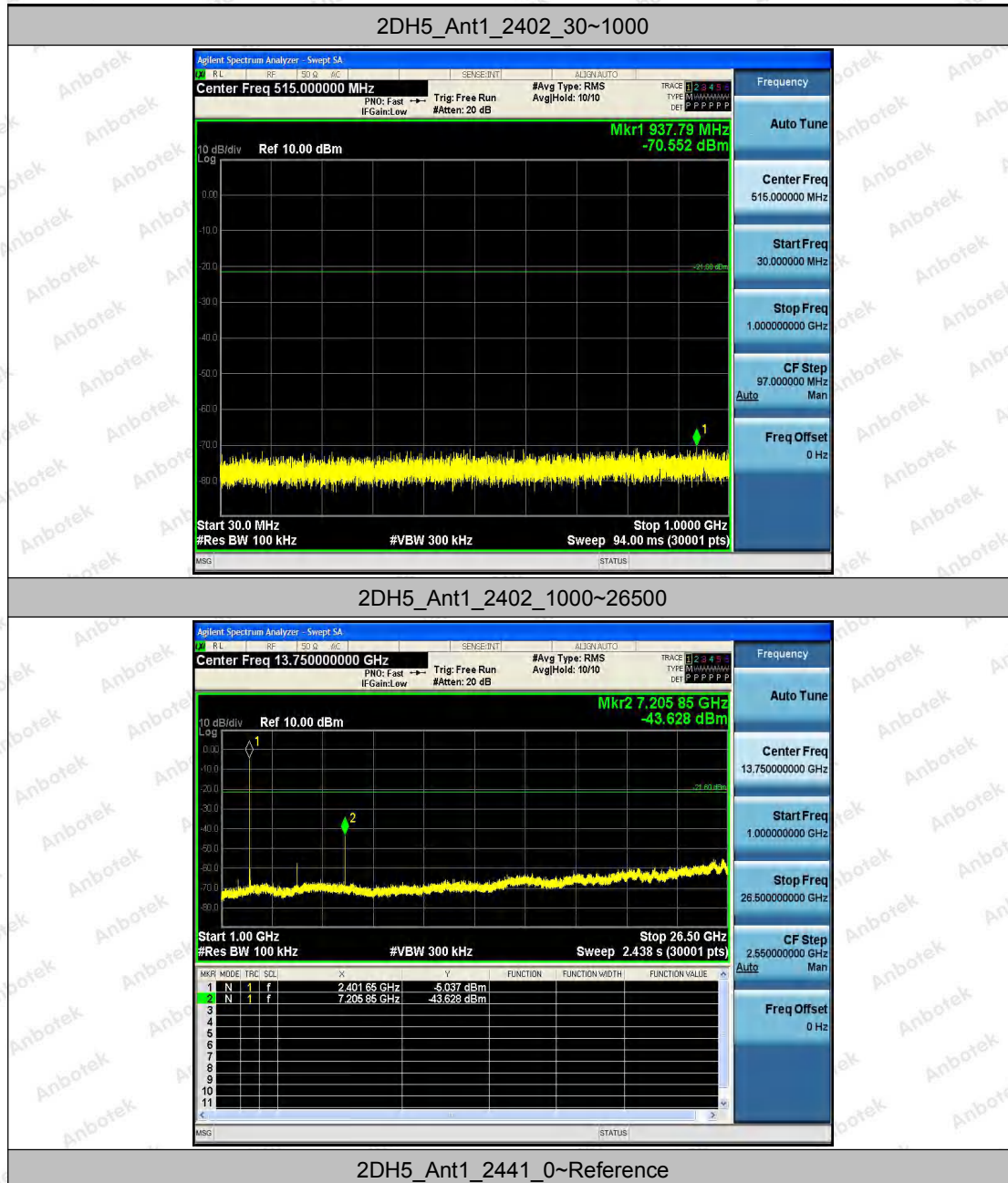


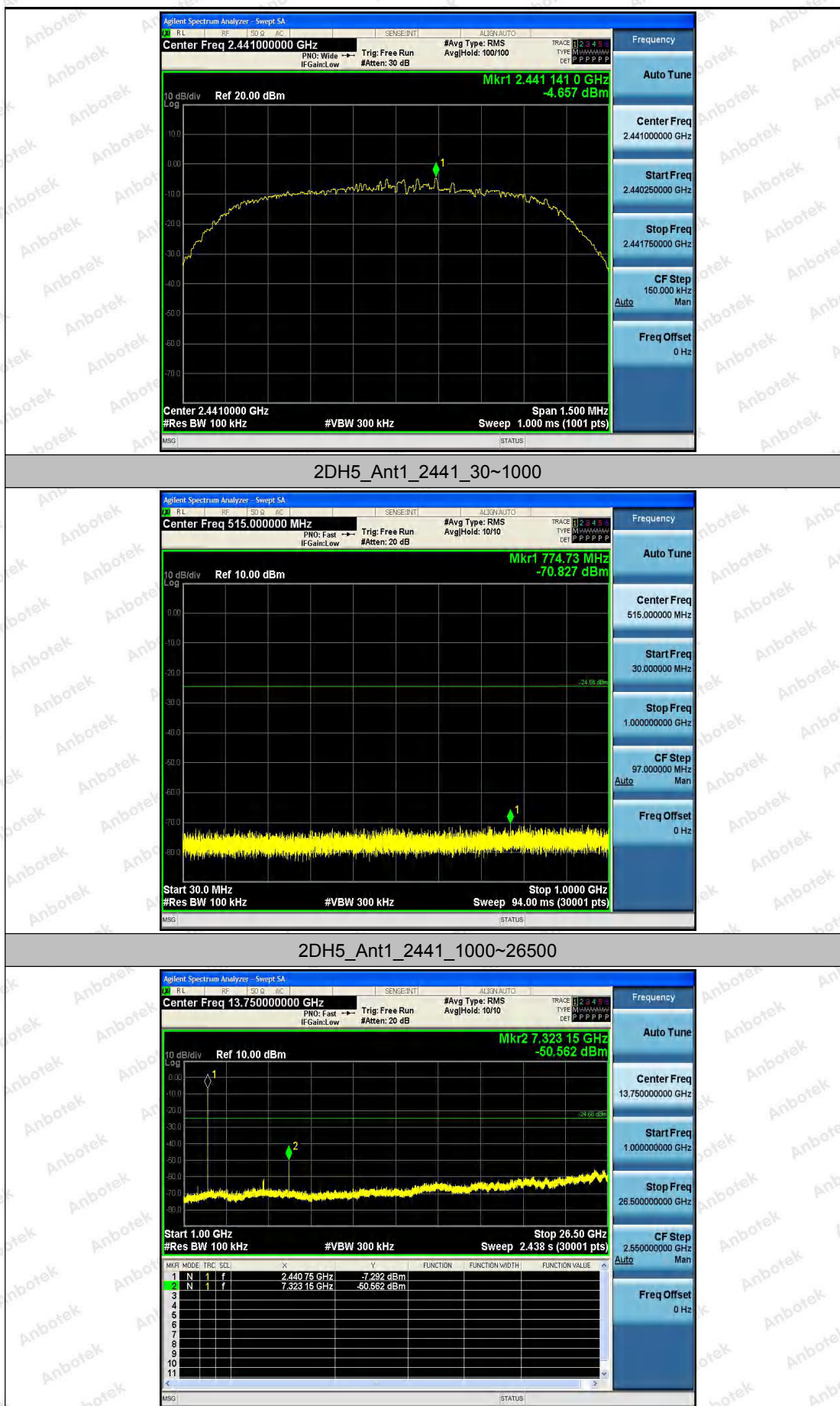
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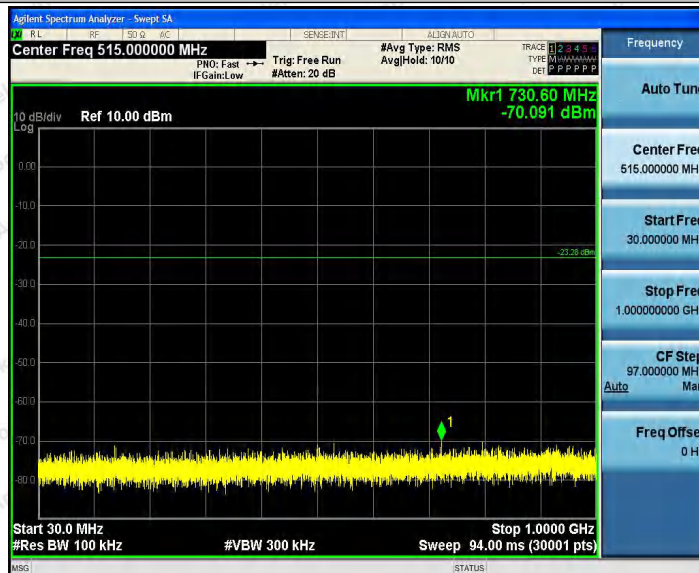
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

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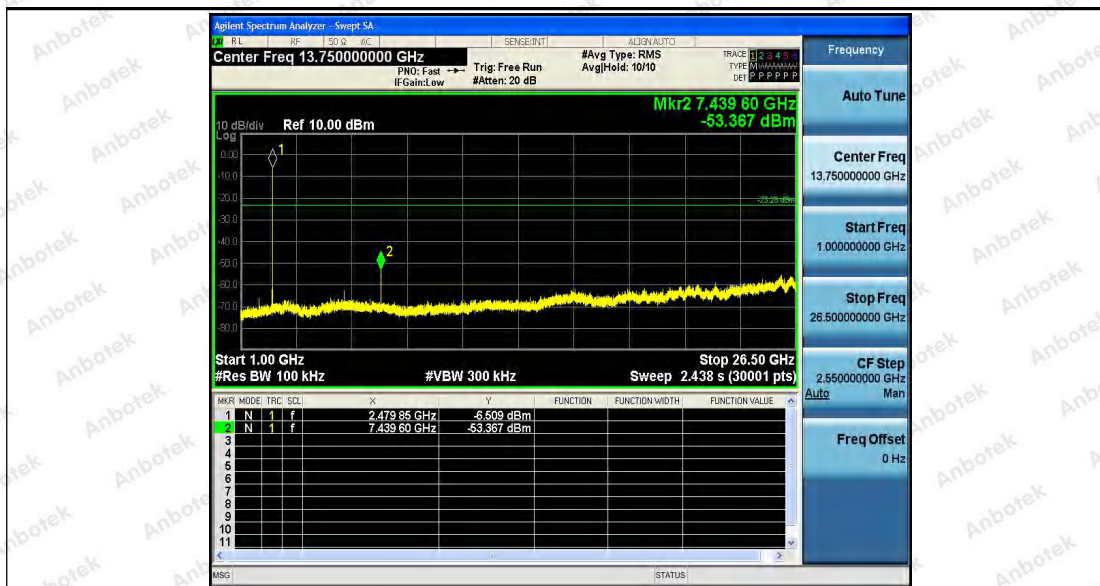
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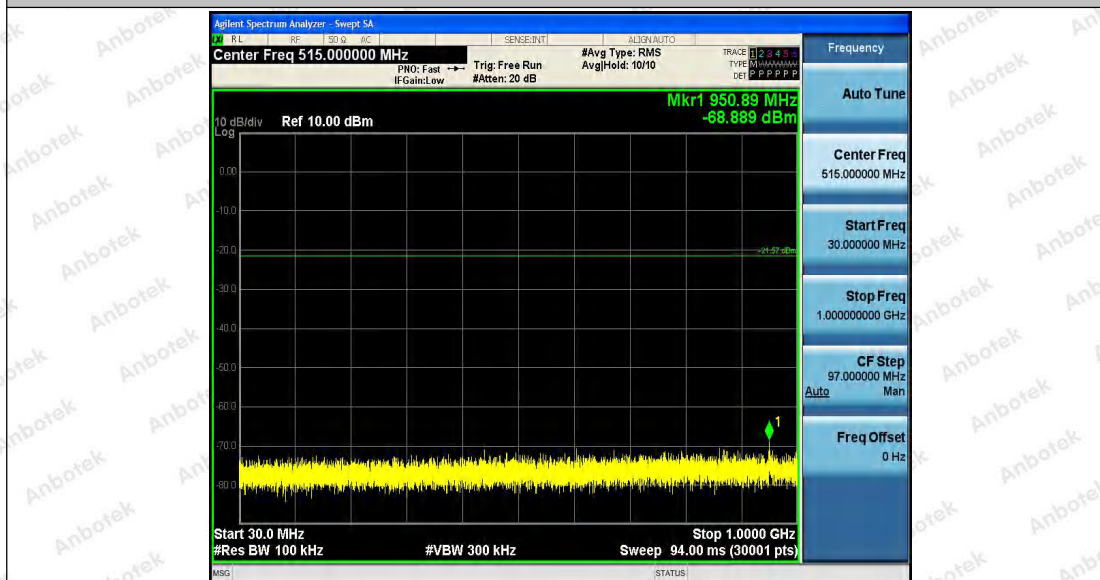
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



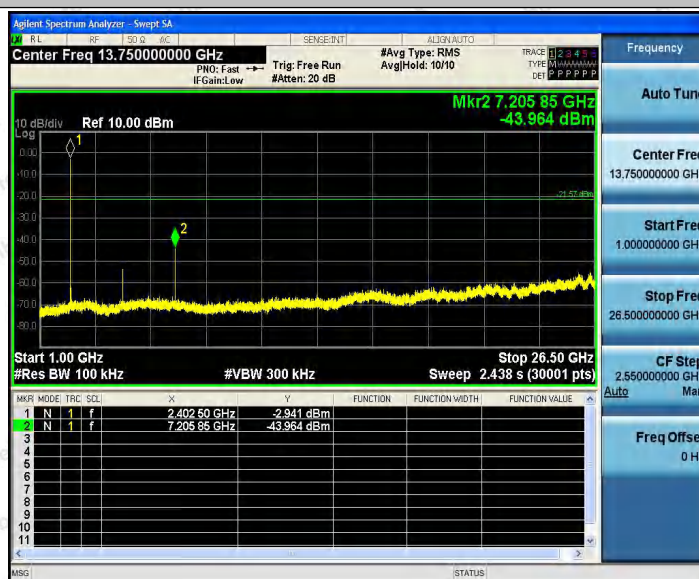
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Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotech.com

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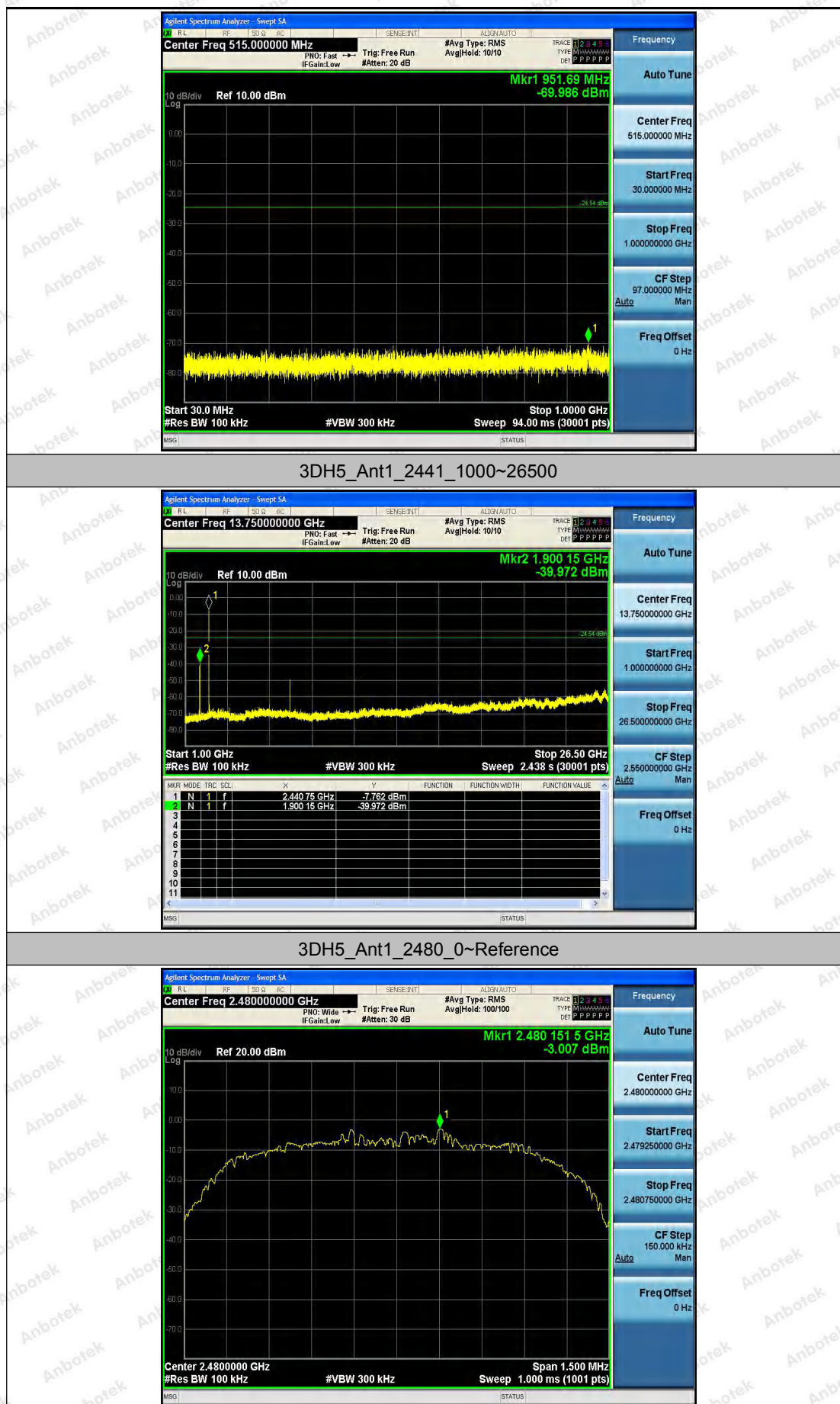
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3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000

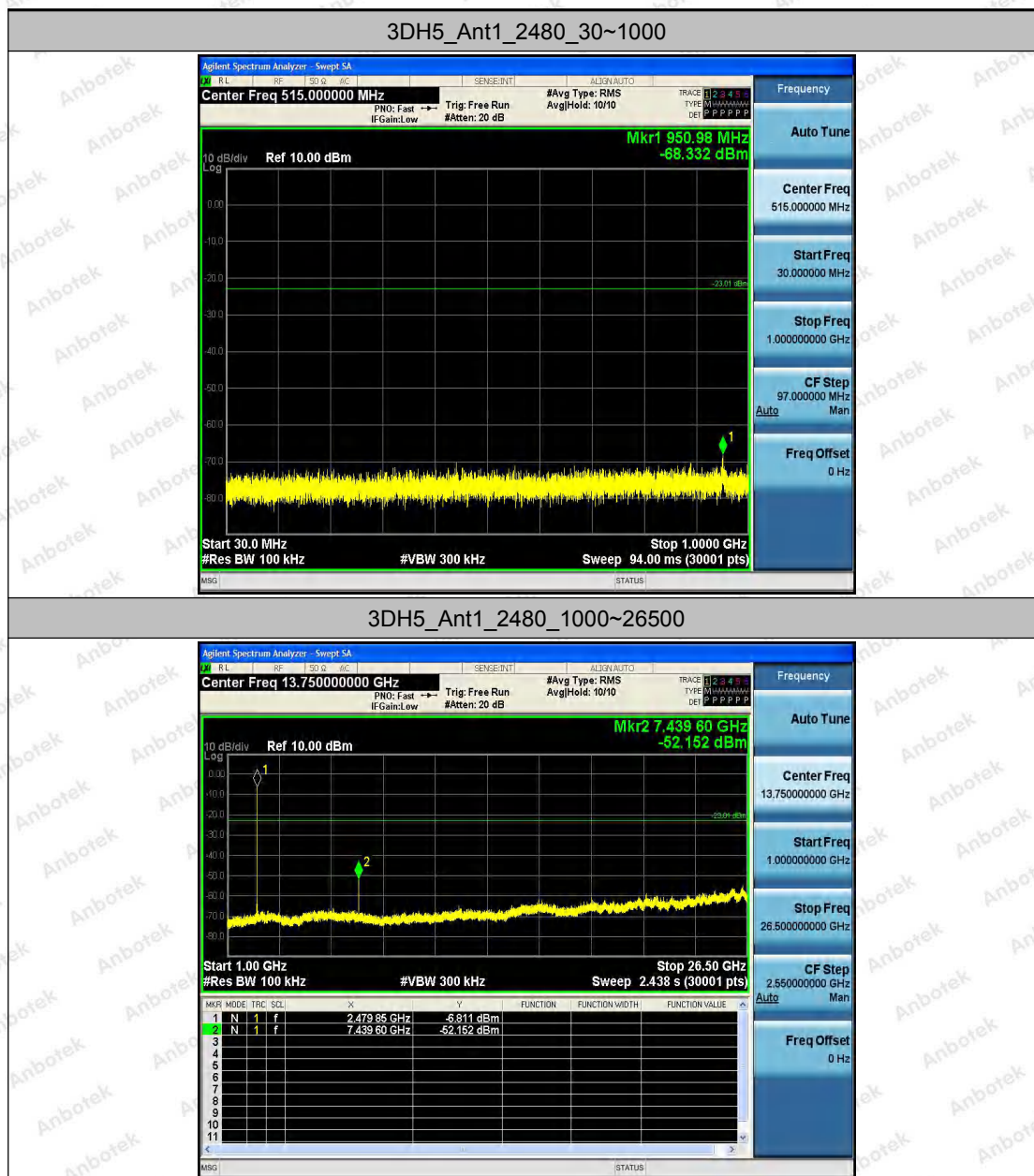


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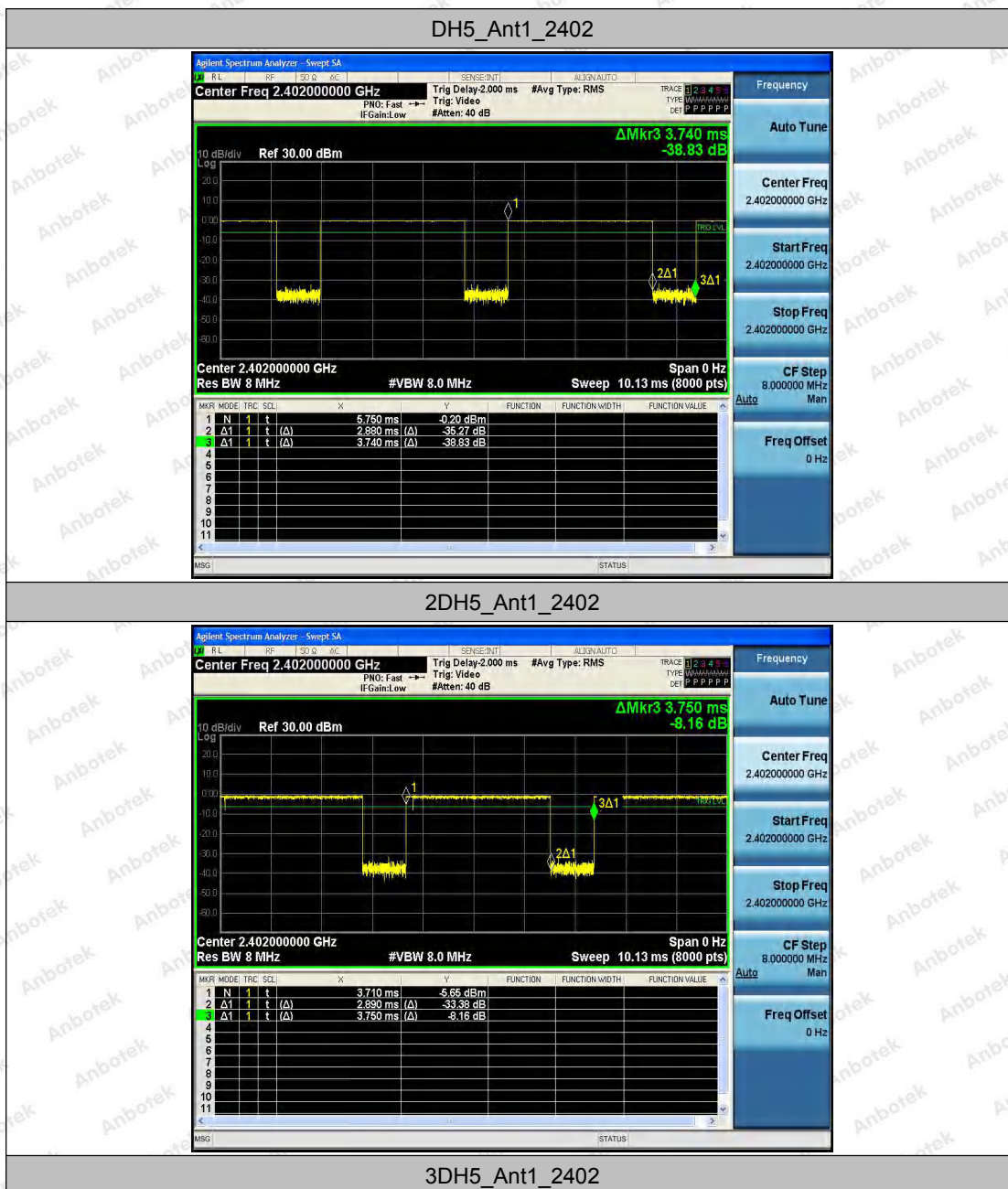
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Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.88	3.74	0.7701	77.01	1.13	---	PASS
2DH5	Ant1	2402	2.89	3.75	0.7707	77.07	1.13	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS

Test Graphs



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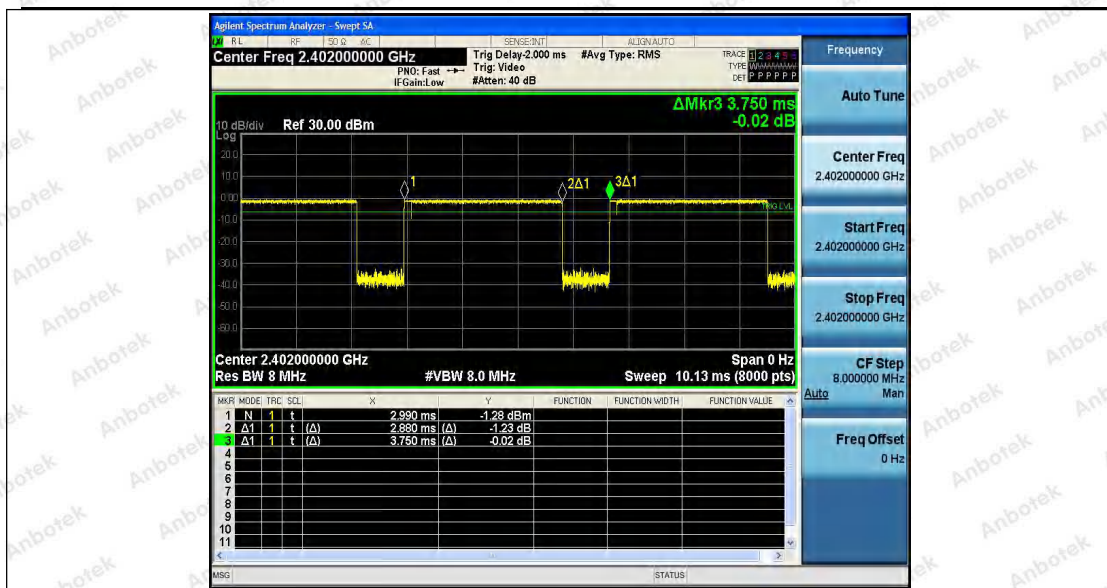
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