

Appendix Test Data

Report No.:	18220WC10261401	Test Sample No.:	1-2-2
Start Test Date:	2021.11.27	Finish Test Date:	2021.12.1
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3℃	Relative Humidity:	57 %
Pressure:	1012 hPa		

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.942	2401.535	2402.477	---	PASS
		2441	0.948	2440.535	2441.483	---	PASS
		2480	0.939	2479.535	2480.474	---	PASS
2DH5	Ant1	2402	1.335	2401.328	2402.663	---	PASS
		2441	1.341	2440.328	2441.669	---	PASS
		2480	1.332	2479.328	2480.660	---	PASS
3DH5	Ant1	2402	1.341	2401.322	2402.663	---	PASS
		2441	1.275	2440.346	2441.621	---	PASS
		2480	1.266	2479.352	2480.618	---	PASS

Test Graphs

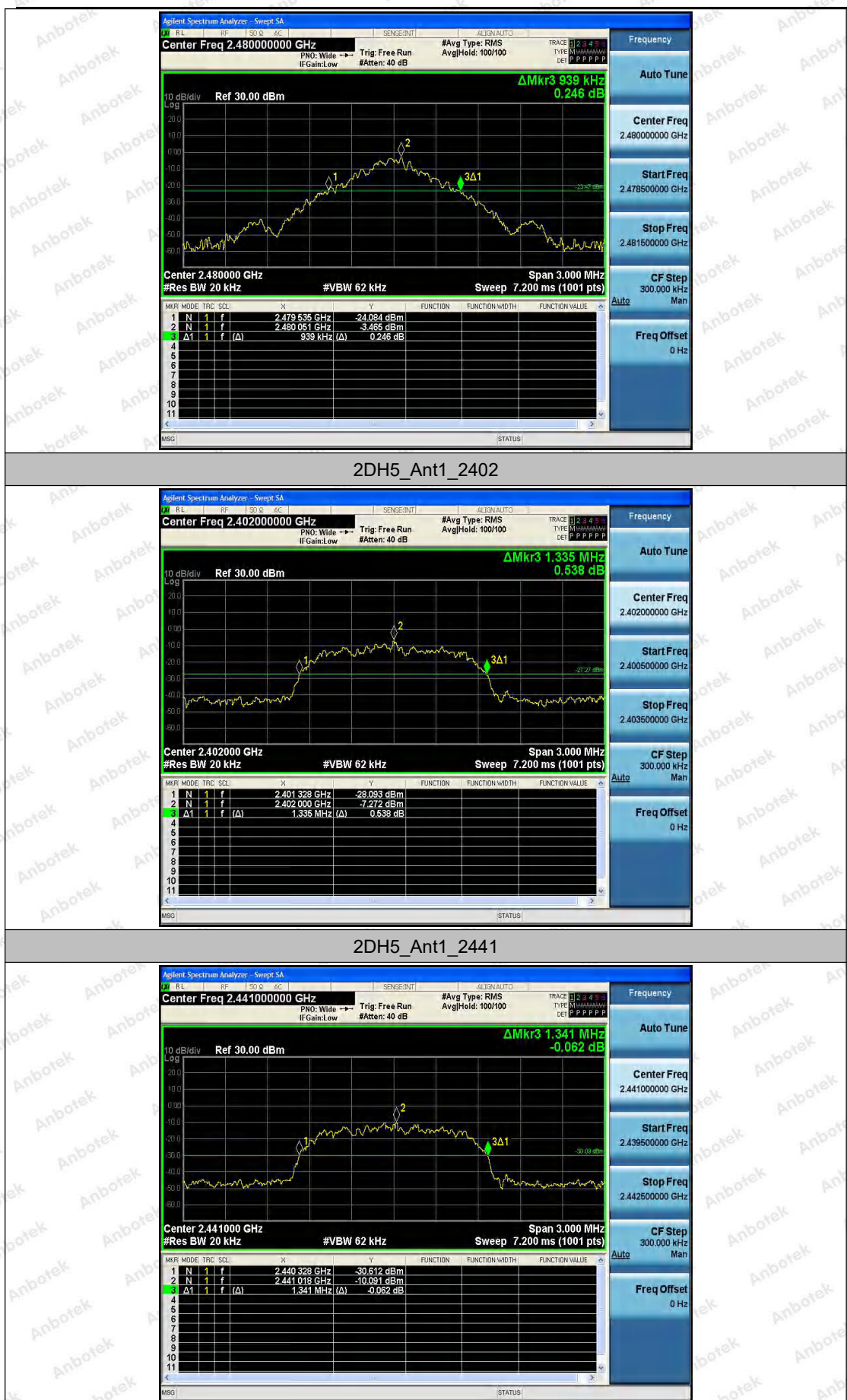


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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88366	2401.55 5	2402.439	---	PASS
		2441	0.89834	2440.54 8	2441.446	---	PASS
		2480	0.87869	2479.55 8	2480.437	---	PASS
2DH5	Ant1	2402	1.1902	2401.40 0	2402.590	---	PASS
		2441	1.1888	2440.40 0	2441.589	---	PASS
		2480	1.1864	2479.40 1	2480.587	---	PASS
3DH5	Ant1	2402	1.2097	2401.38 2	2402.592	---	PASS
		2441	1.2003	2440.38 7	2441.588	---	PASS
		2480	1.2009	2479.38 9	2480.589	---	PASS

Test Graphs



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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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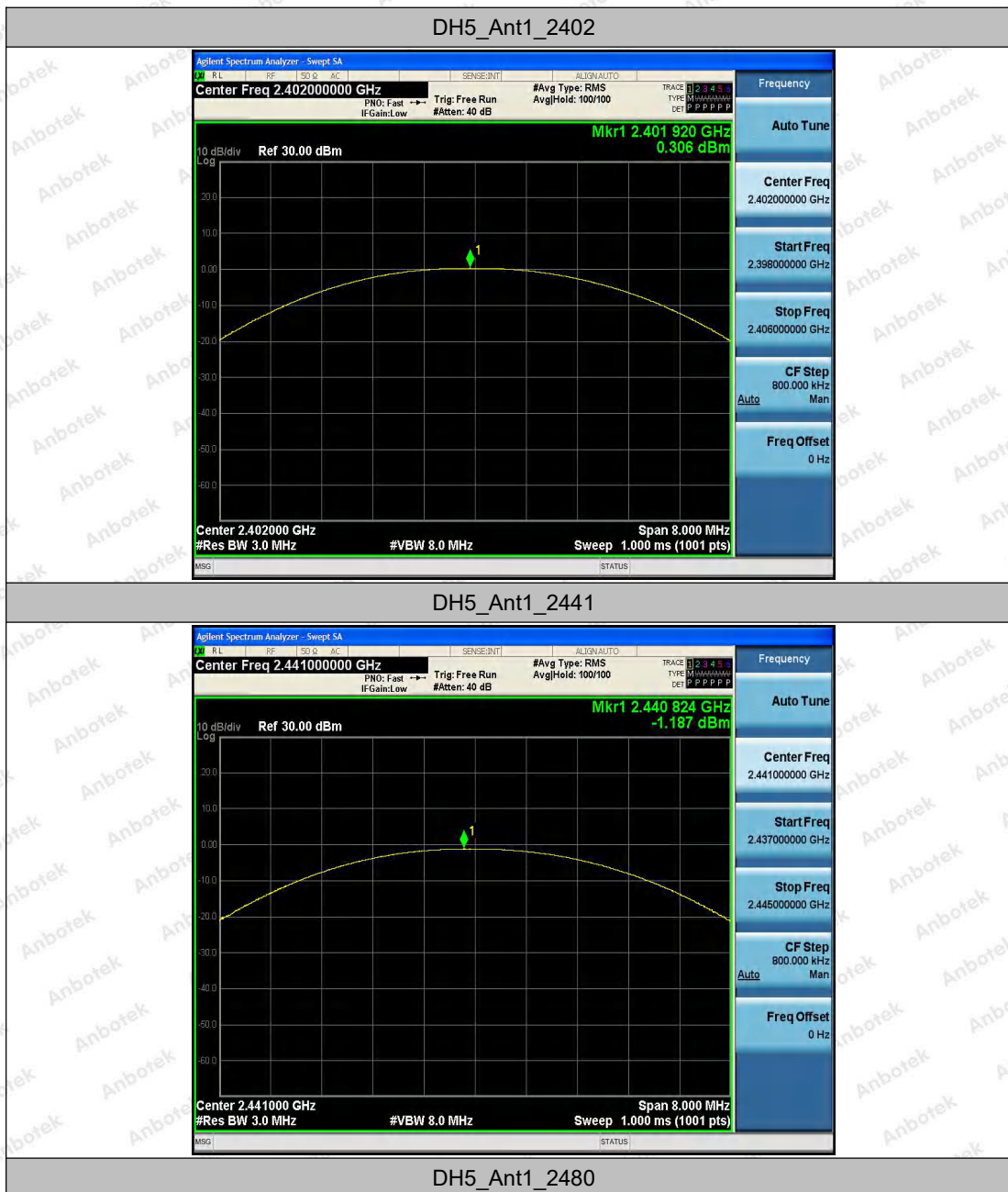
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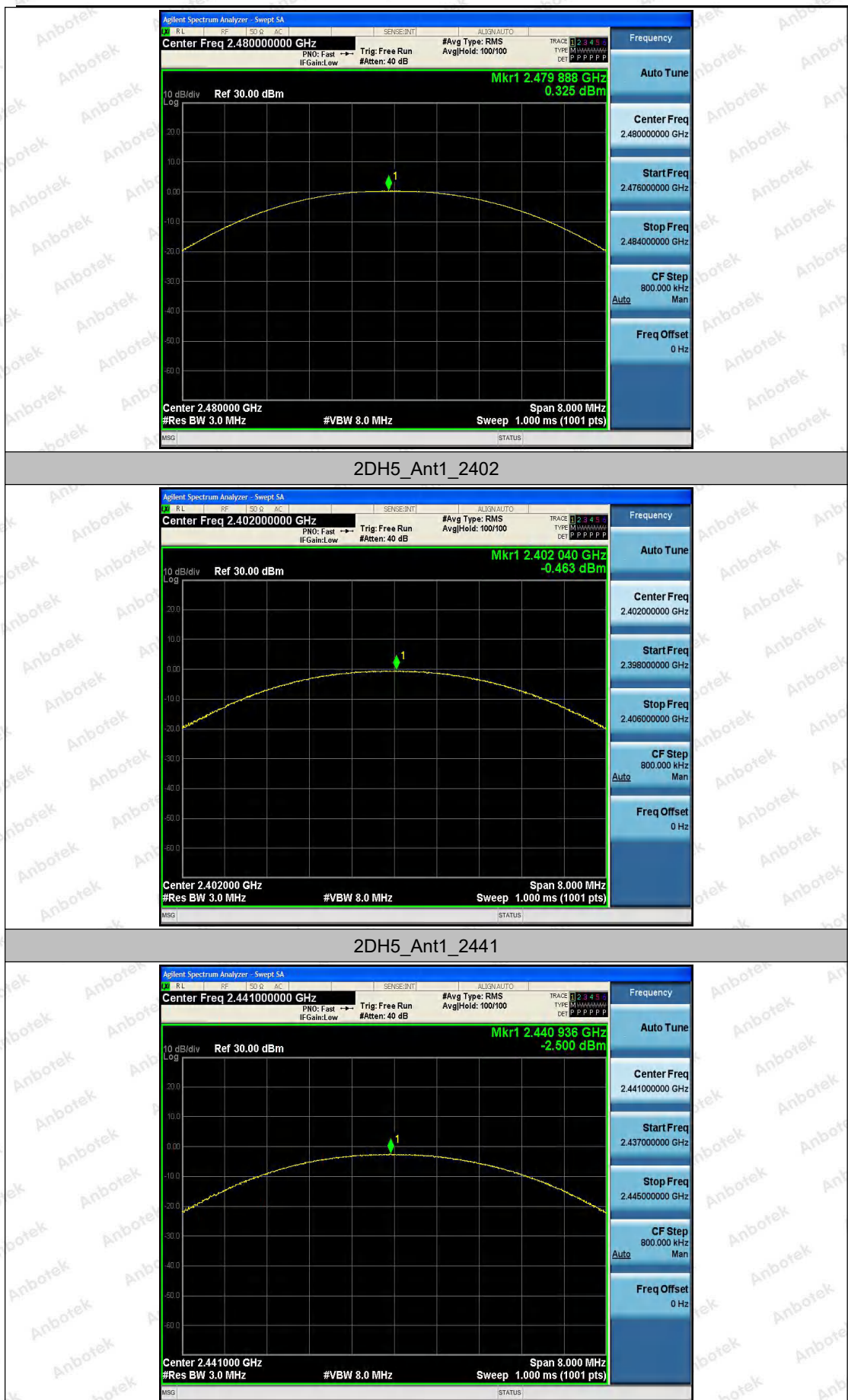
Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.31	≤20.97	PASS
		2441	-1.19	≤20.97	PASS
		2480	0.33	≤20.97	PASS
2DH5	Ant1	2402	-0.46	≤20.97	PASS
		2441	-2.5	≤20.97	PASS
		2480	-1.06	≤20.97	PASS
3DH5	Ant1	2402	-0.15	≤20.97	PASS
		2441	-1.71	≤20.97	PASS
		2480	-0.46	≤20.97	PASS

Test Graphs





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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.18	≥ 0.948	PASS
2DH5	Ant1	Hop	1.32	≥ 0.894	PASS
3DH5	Ant1	Hop	0.934	≥ 0.894	PASS

Test Graphs

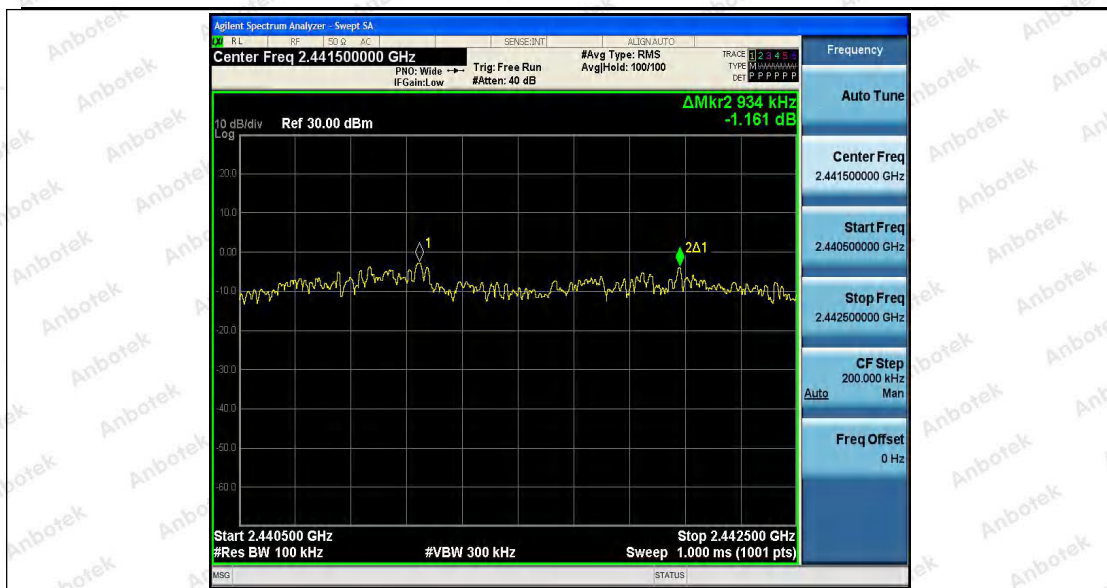


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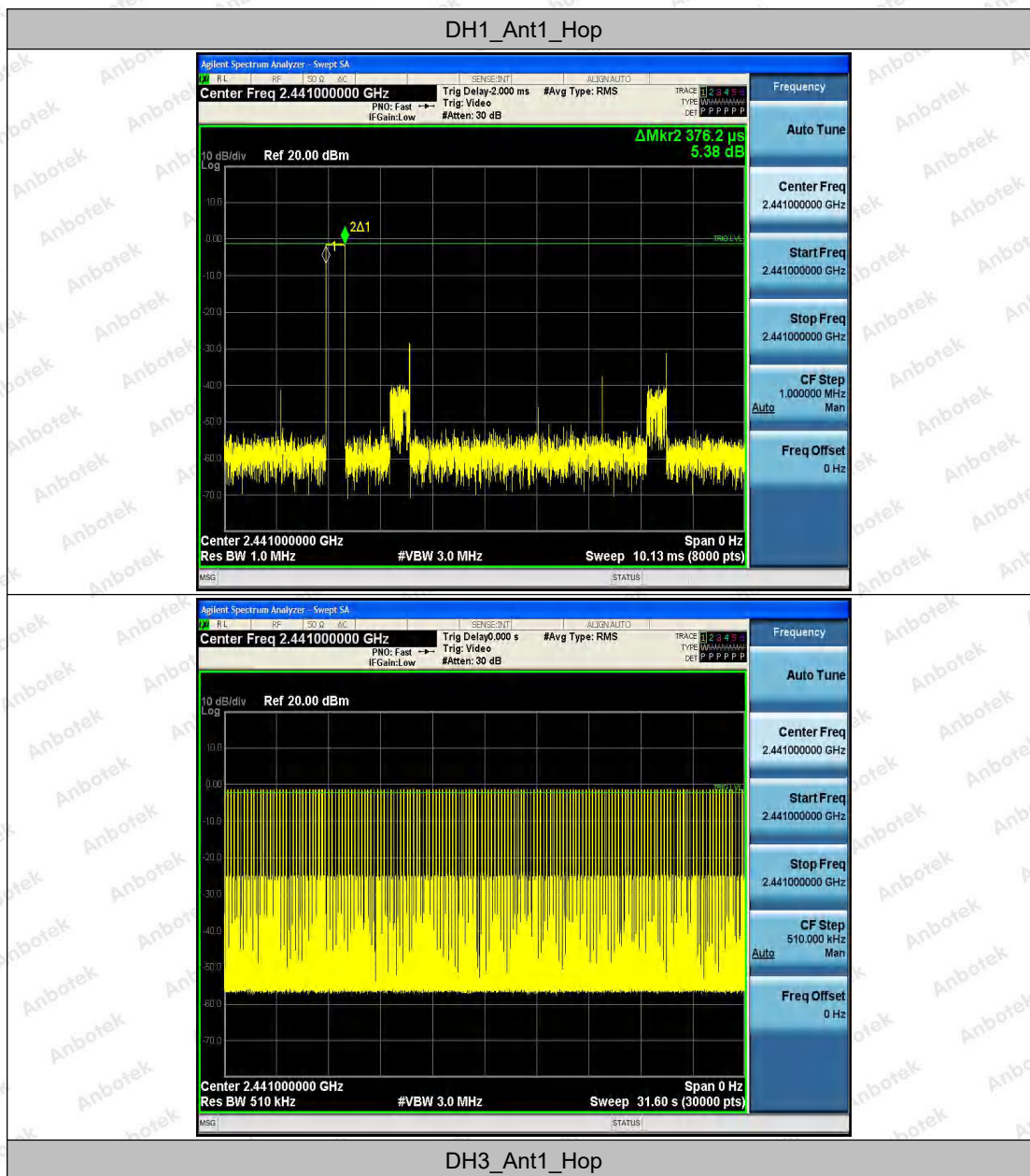
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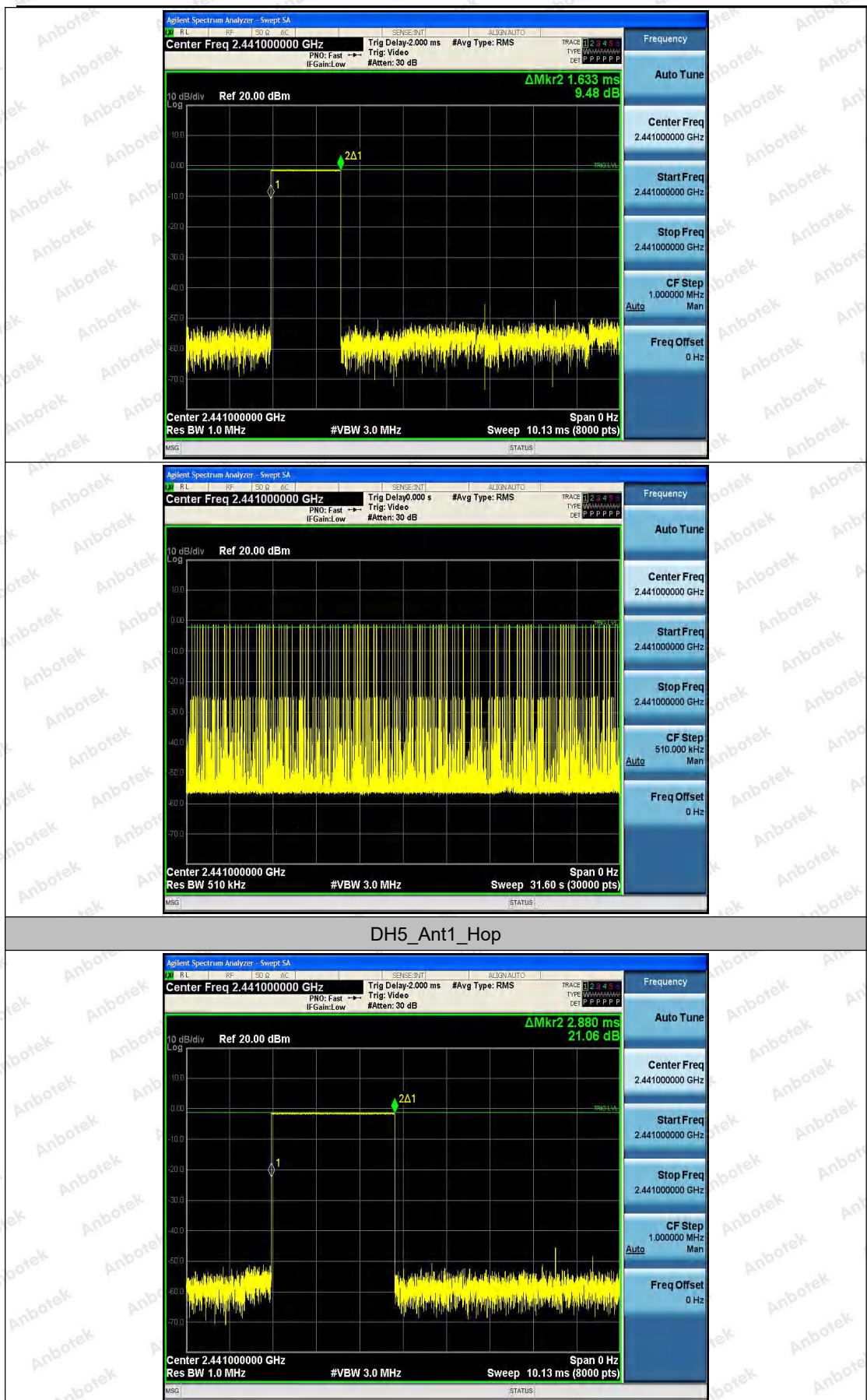
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	313	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.88	106	0.305	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.12	≤0.4	PASS
2DH3	Ant1	Hop	1.64	156	0.255	≤0.4	PASS
2DH5	Ant1	Hop	2.88	99	0.286	≤0.4	PASS
3DH1	Ant1	Hop	0.39	313	0.121	≤0.4	PASS
3DH3	Ant1	Hop	1.64	159	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.89	113	0.326	≤0.4	PASS

Test Graphs





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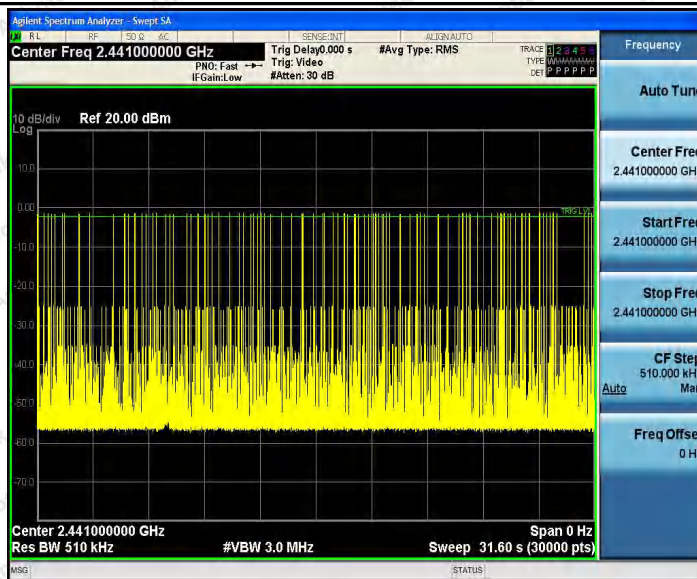
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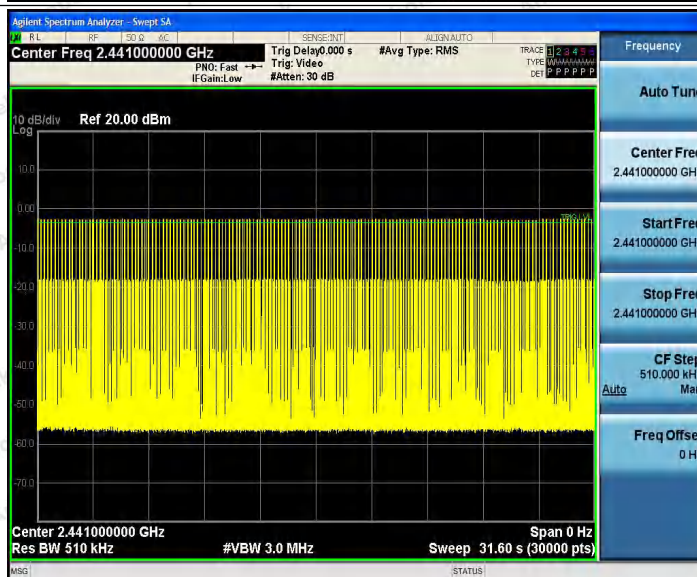
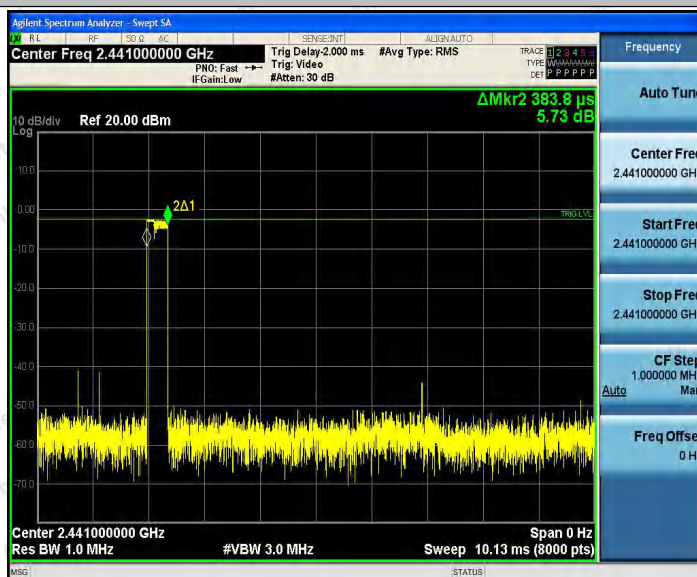
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2DH1_Ant1_Hop



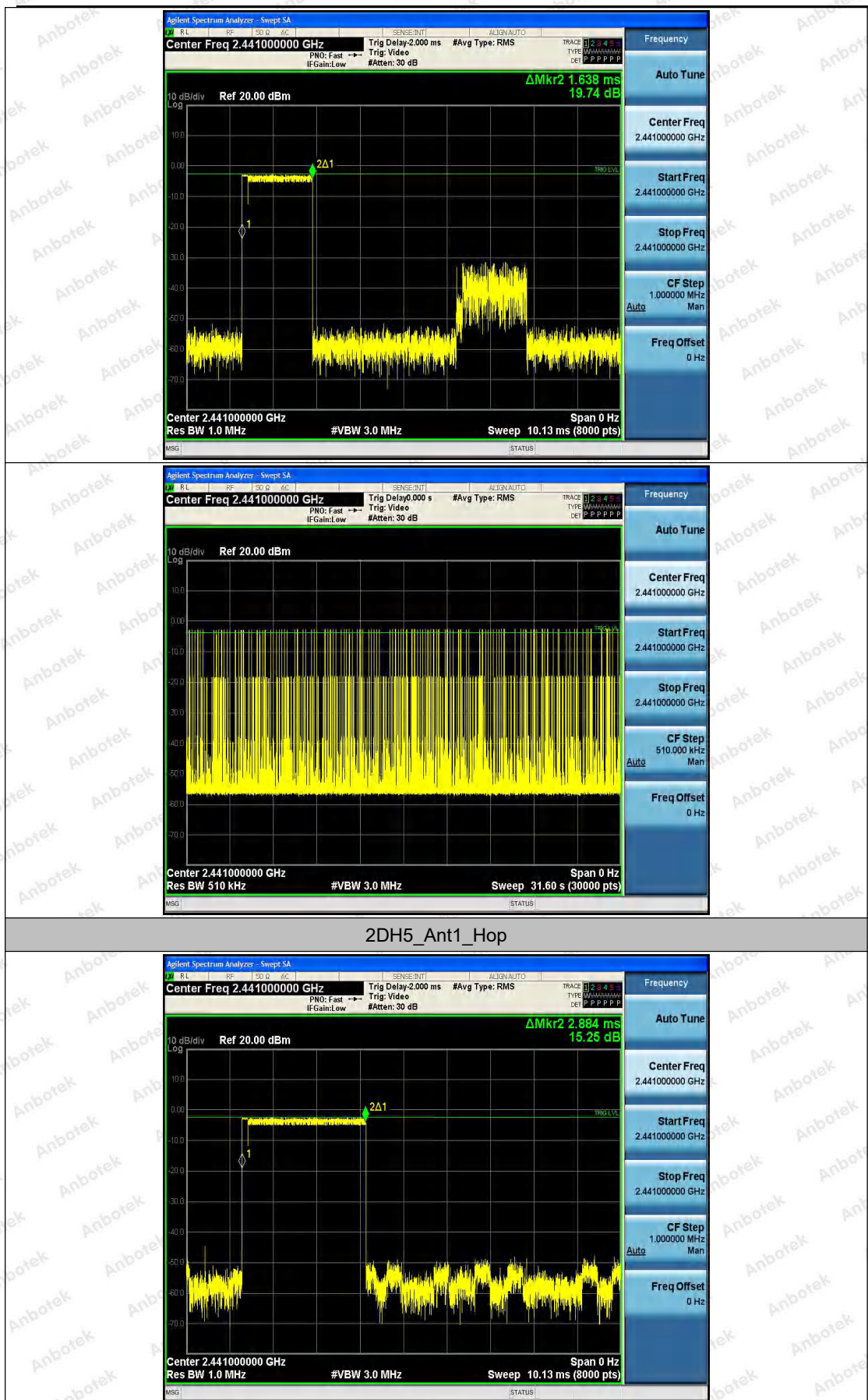
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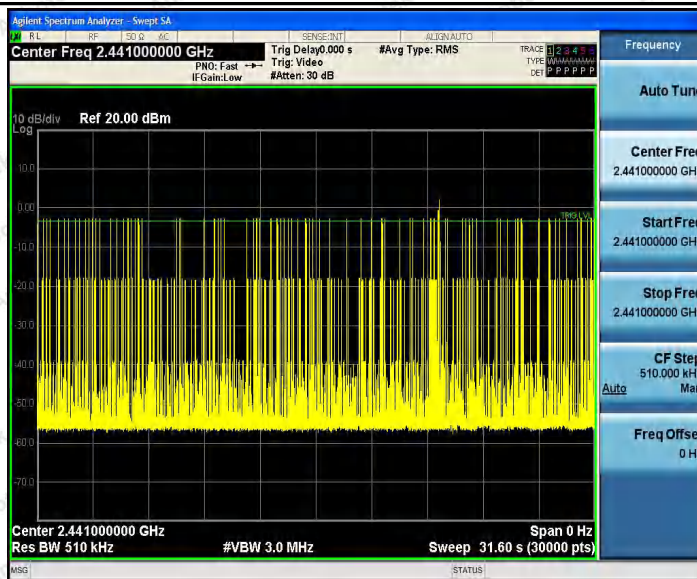
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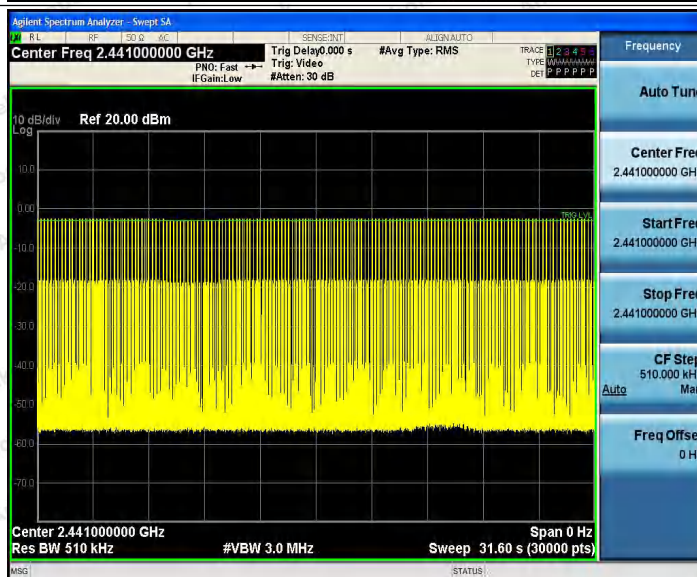
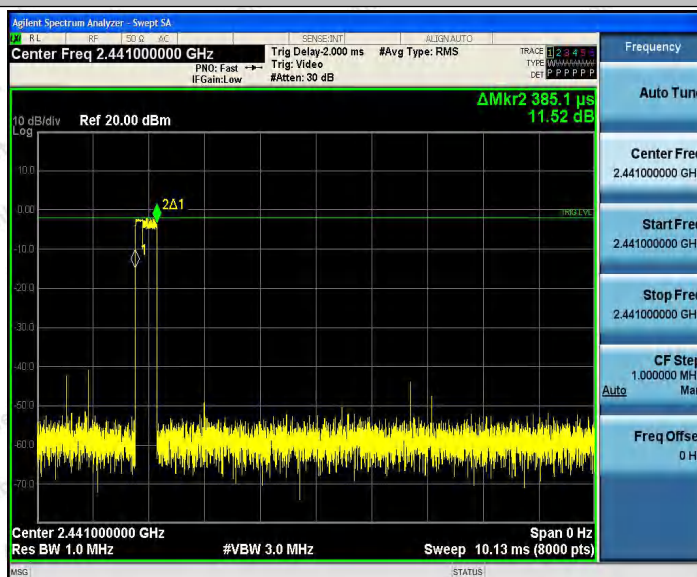
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2DH5_Ant1_Hop



3DH1_Ant1_Hop



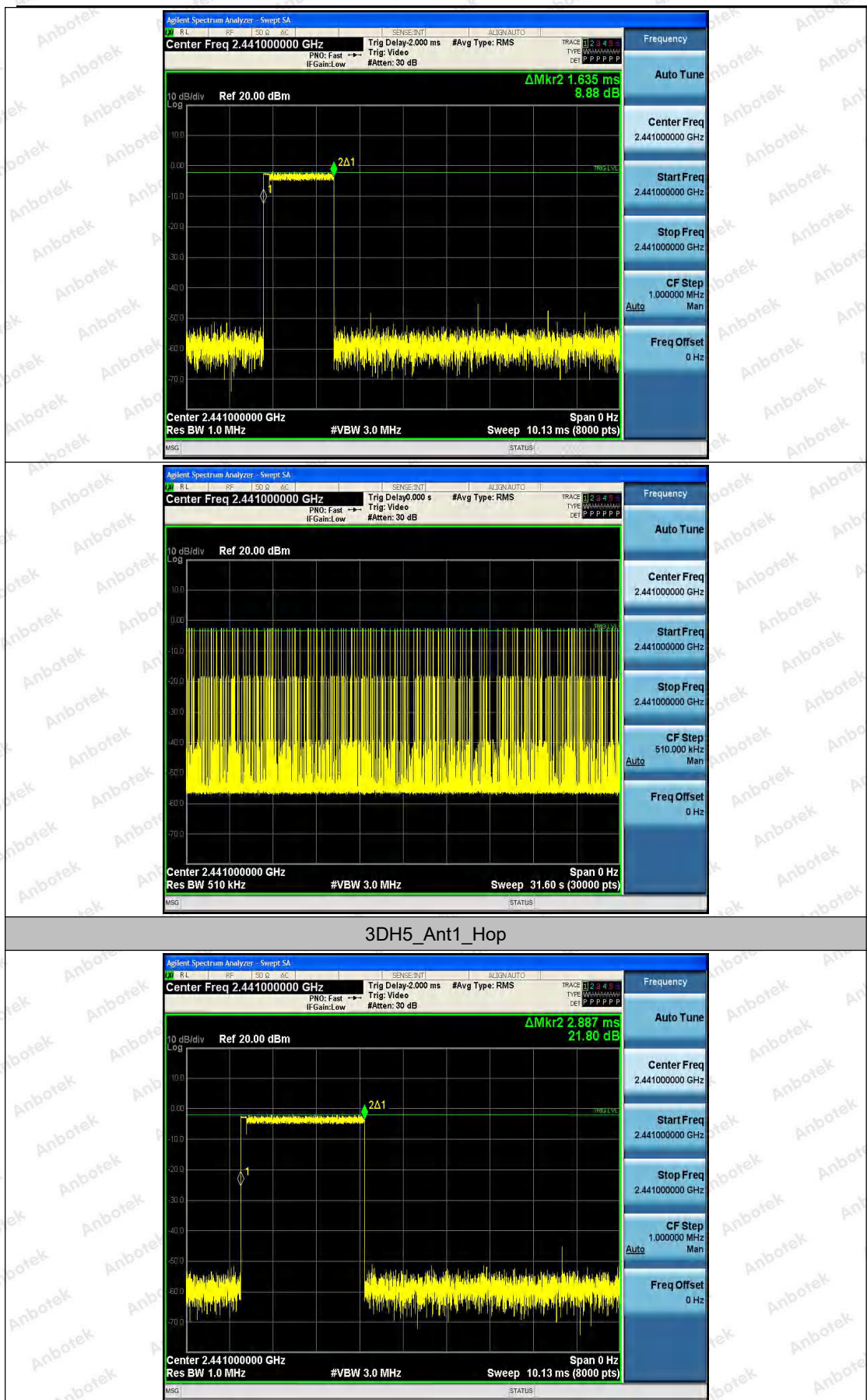
3DH3_Ant1_Hop

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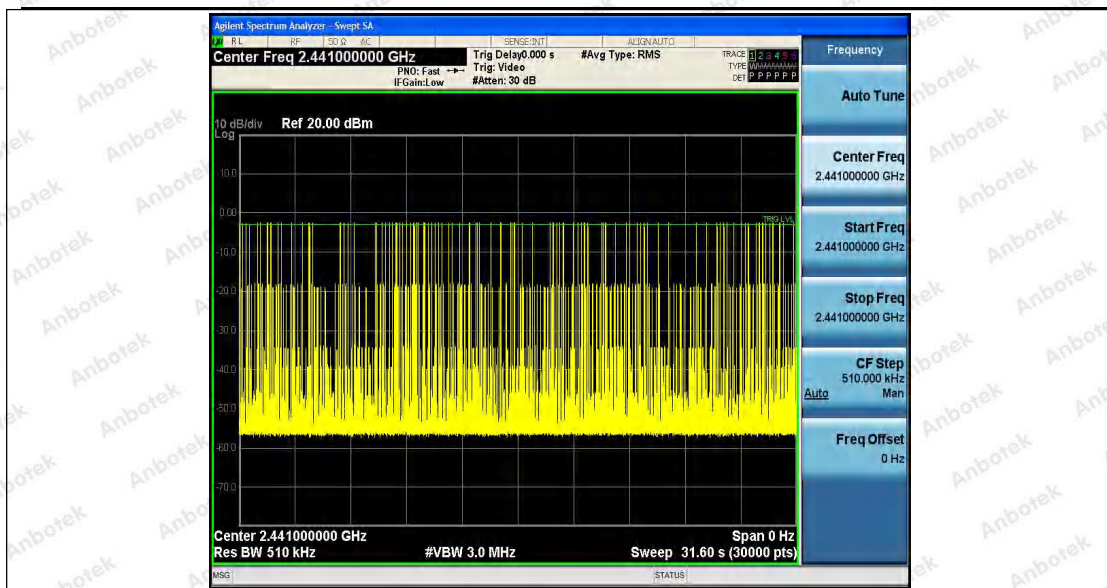
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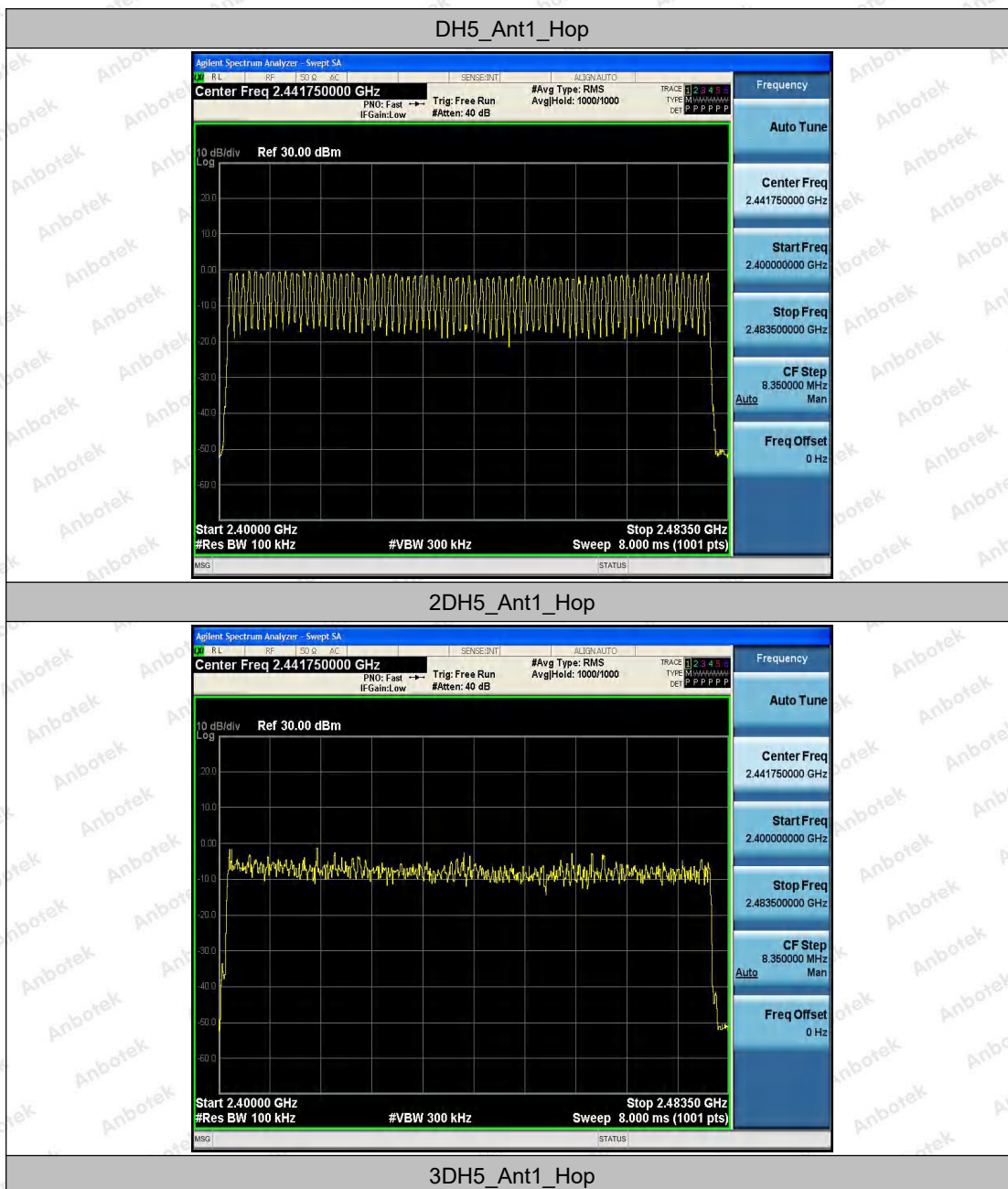
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Appendix F: Number of hopping channels

Test Result

TestMode	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

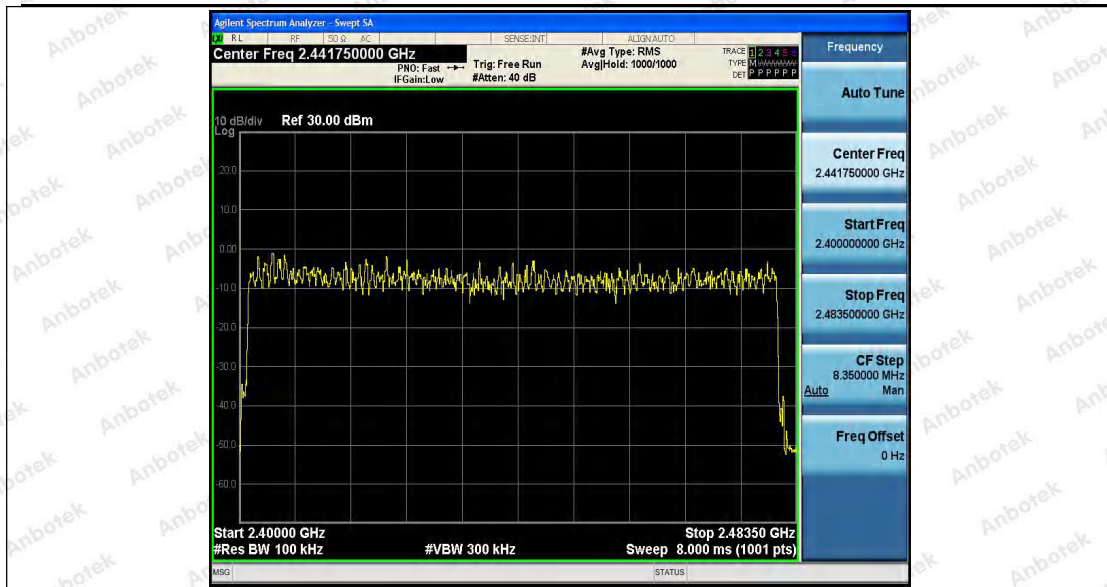


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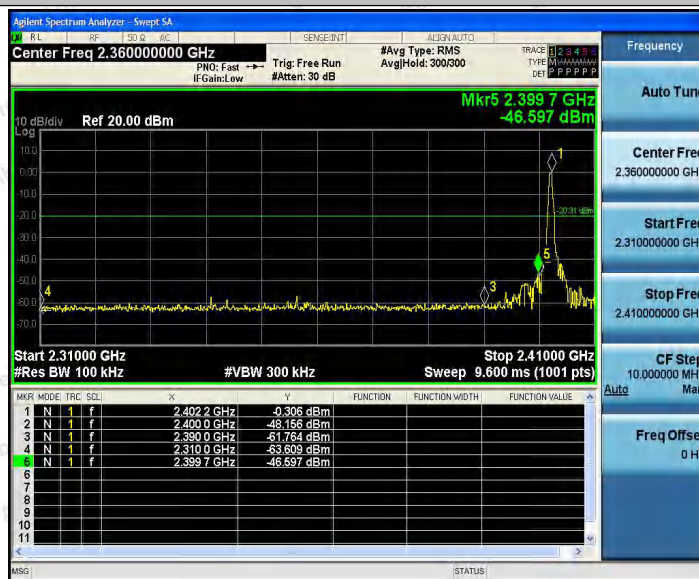
Appendix G: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.31	-46.6	≤-20.31	PASS
		High	2480	-0.02	-49.82	≤-20.02	PASS
		Low	Hop	-0.38	-60.12	≤-20.38	PASS
		High	Hop	-0.88	-62.12	≤-20.88	PASS
2DH5	Ant1	Low	2402	-1.52	-48.08	≤-21.52	PASS
		High	2480	-2.35	-52.62	≤-22.35	PASS
		Low	Hop	-3.06	-59.53	≤-23.06	PASS
		High	Hop	-2.26	-63.4	≤-22.26	PASS
3DH5	Ant1	Low	2402	-2.00	-51.67	≤-22	PASS
		High	2480	-1.53	-53.18	≤-21.53	PASS
		Low	Hop	-4.77	-53.64	≤-24.77	PASS
		High	Hop	-1.68	-62.74	≤-21.68	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop

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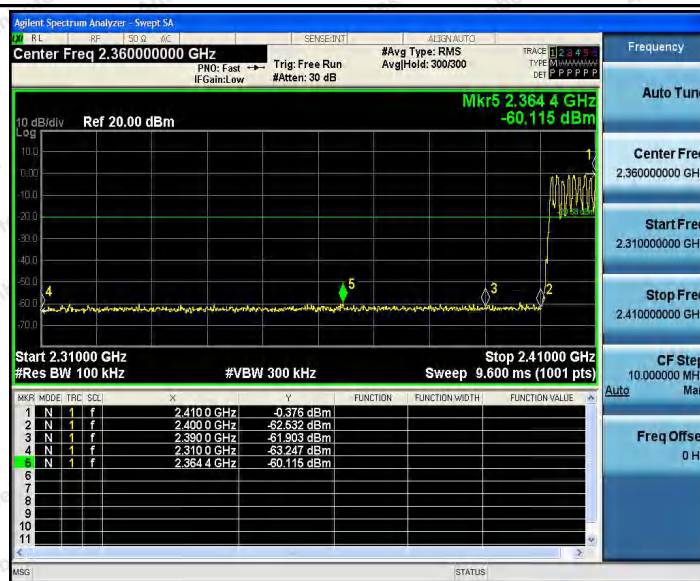
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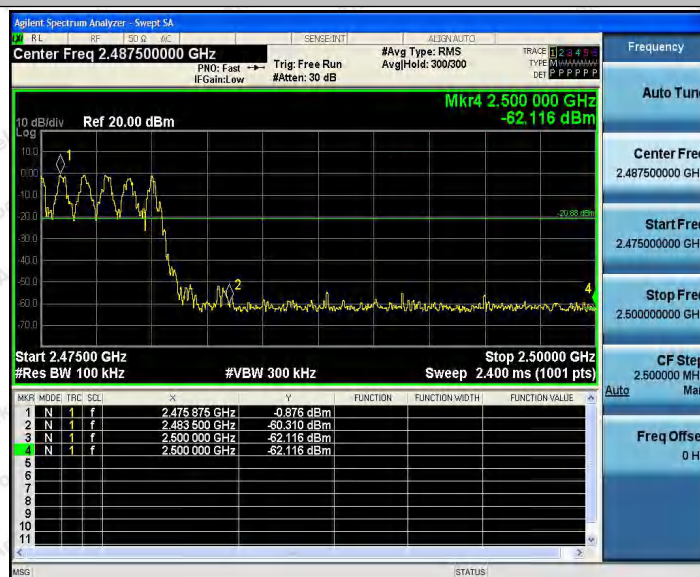
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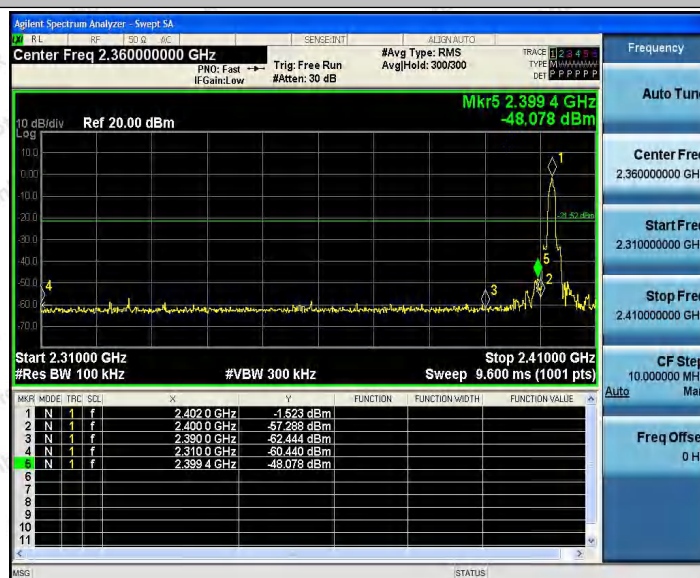
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



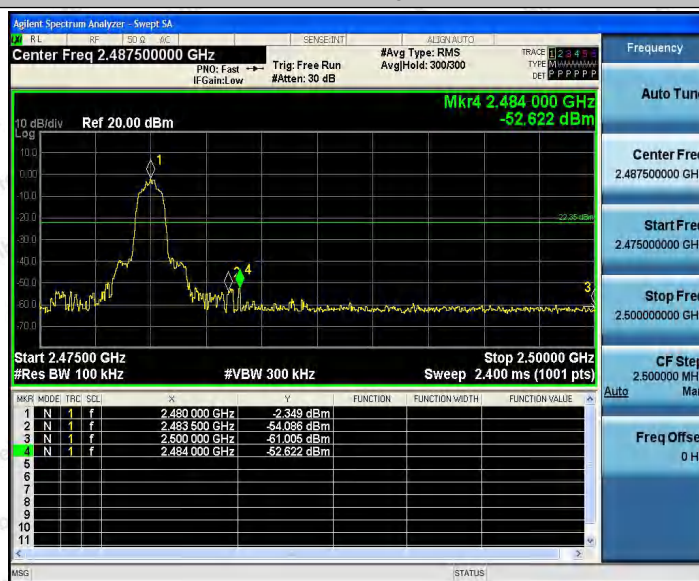
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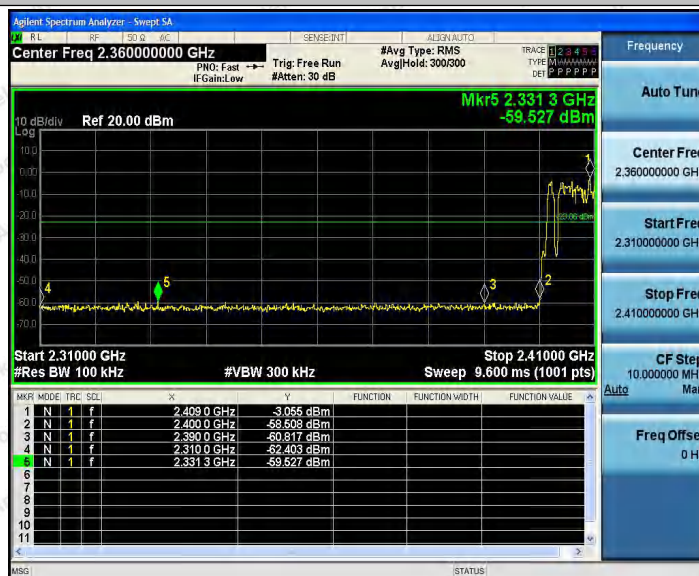
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



2DH5_Ant1_High_Hop

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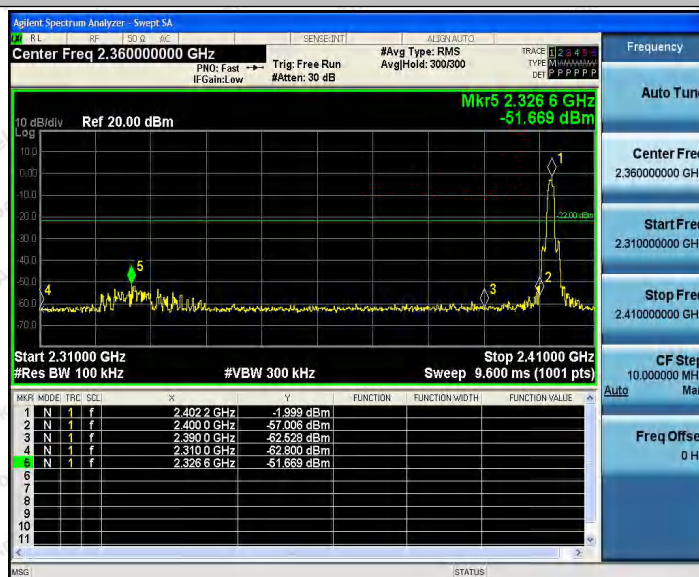
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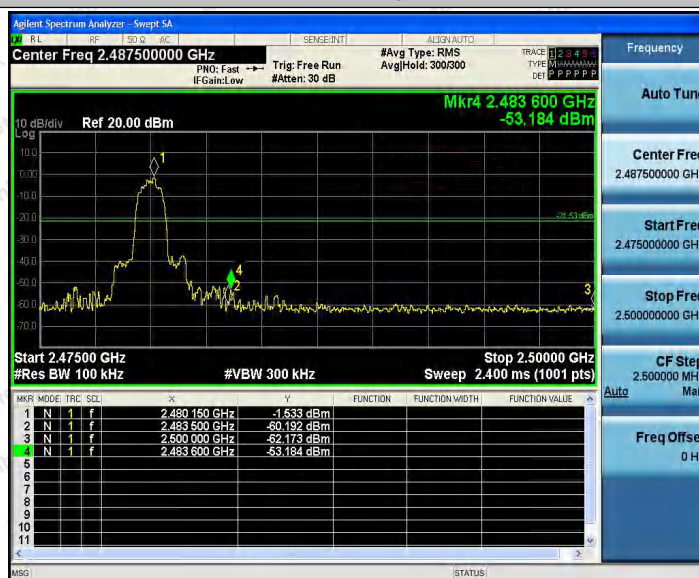
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



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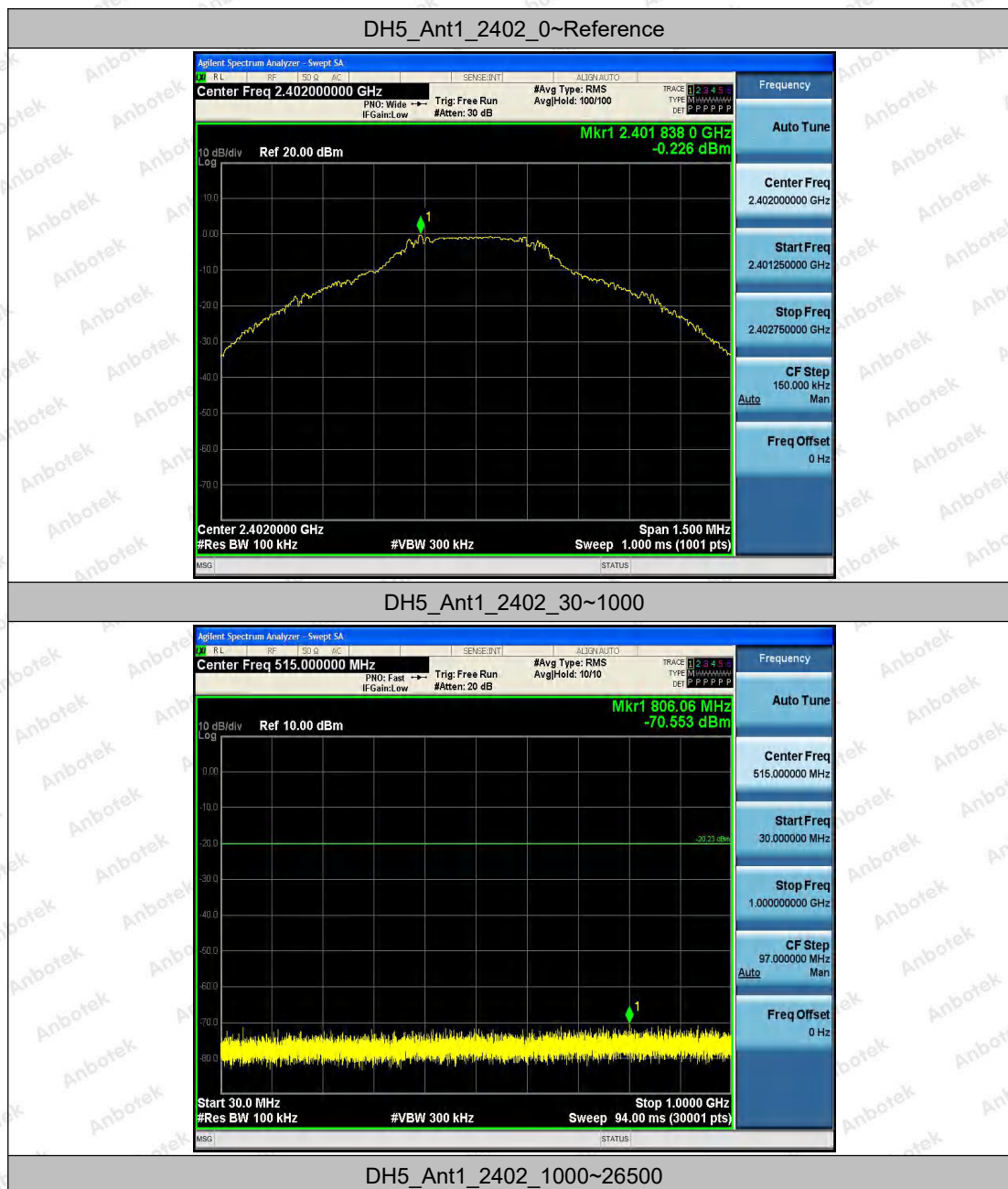
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Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.23	-0.23	---	PASS
			30~1000	-0.23	-70.55	≤-20.23	PASS
			1000~26500	-0.23	-43.7	≤-20.23	PASS
		2441	Reference	-1.69	-1.69	---	PASS
			30~1000	-1.69	-69.78	≤-21.69	PASS
			1000~26500	-1.69	-43.52	≤-21.69	PASS
		2480	Reference	0.01	0.01	---	PASS
			30~1000	0.01	-69.81	≤-20	PASS
			1000~26500	0.01	-49.08	≤-20	PASS
2DH5	Ant1	2402	Reference	-1.44	-1.44	---	PASS
			30~1000	-1.44	-61.99	≤-21.44	PASS
			1000~26500	-1.44	-47.34	≤-21.44	PASS
		2441	Reference	-3.53	-3.53	---	PASS
			30~1000	-3.53	-69.34	≤-23.53	PASS
			1000~26500	-3.53	-47.63	≤-23.53	PASS
		2480	Reference	-2.76	-2.76	---	PASS
			30~1000	-2.76	-62.99	≤-22.76	PASS
			1000~26500	-2.76	-50.65	≤-22.76	PASS
3DH5	Ant1	2402	Reference	-1.88	-1.88	---	PASS
			30~1000	-1.88	-71.09	≤-21.88	PASS
			1000~26500	-1.88	-47.77	≤-21.88	PASS
		2441	Reference	-2.59	-2.59	---	PASS
			30~1000	-2.59	-70.6	≤-22.59	PASS
			1000~26500	-2.59	-47.53	≤-22.59	PASS
		2480	Reference	-2.29	-2.29	---	PASS
			30~1000	-2.29	-70.98	≤-22.29	PASS
			1000~26500	-2.29	-53.65	≤-22.29	PASS

Test Graphs



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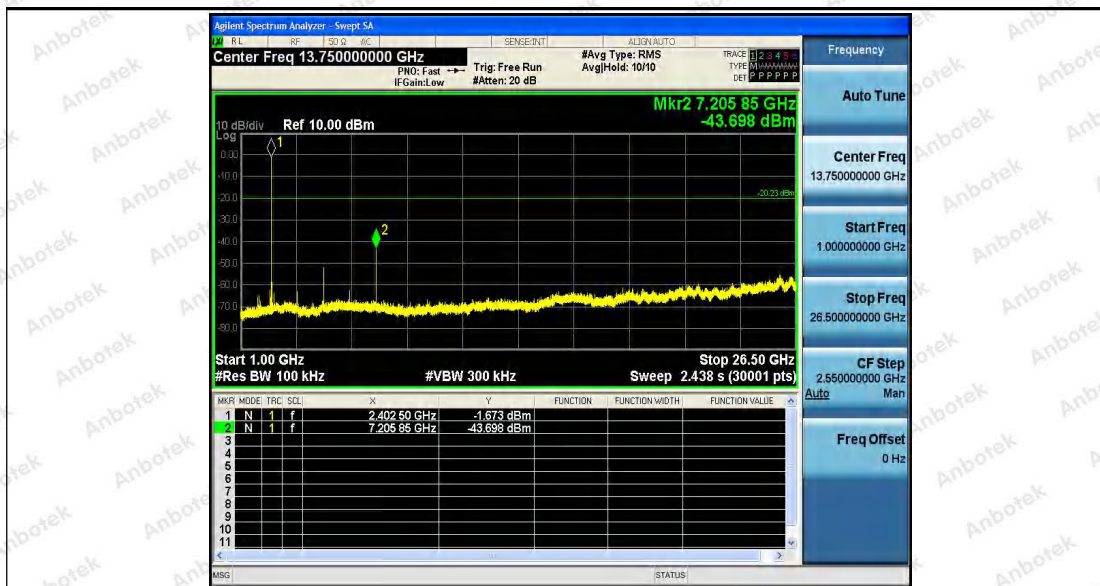
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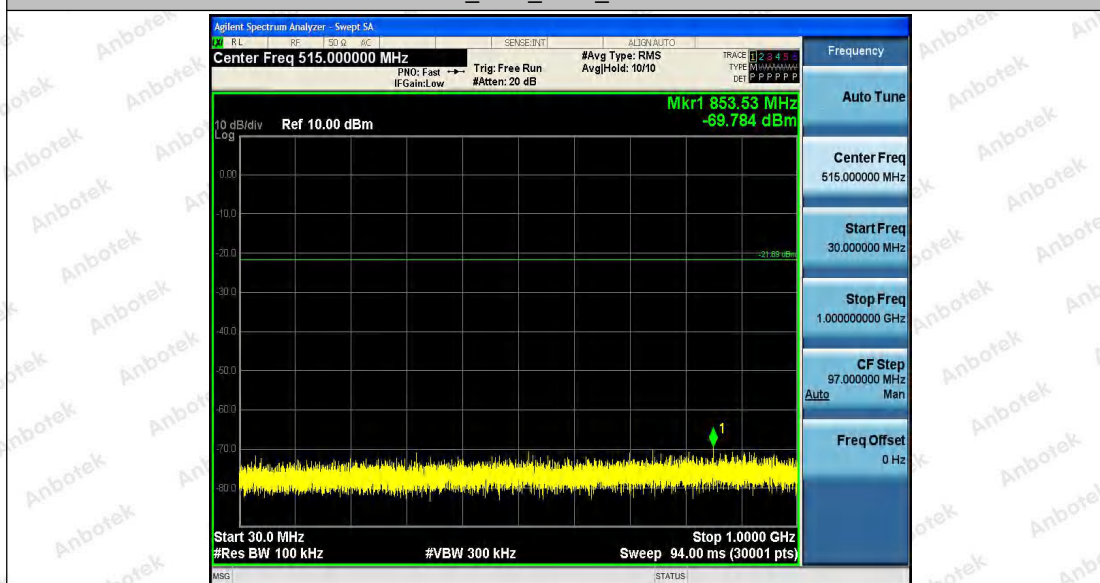
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



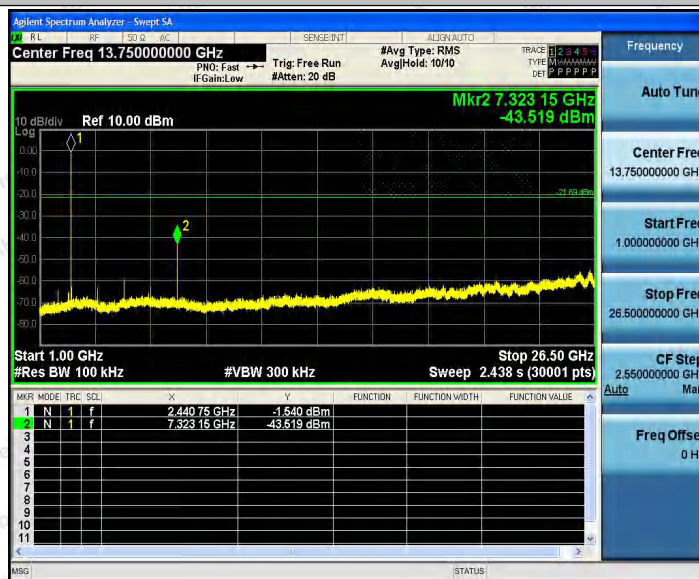
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000

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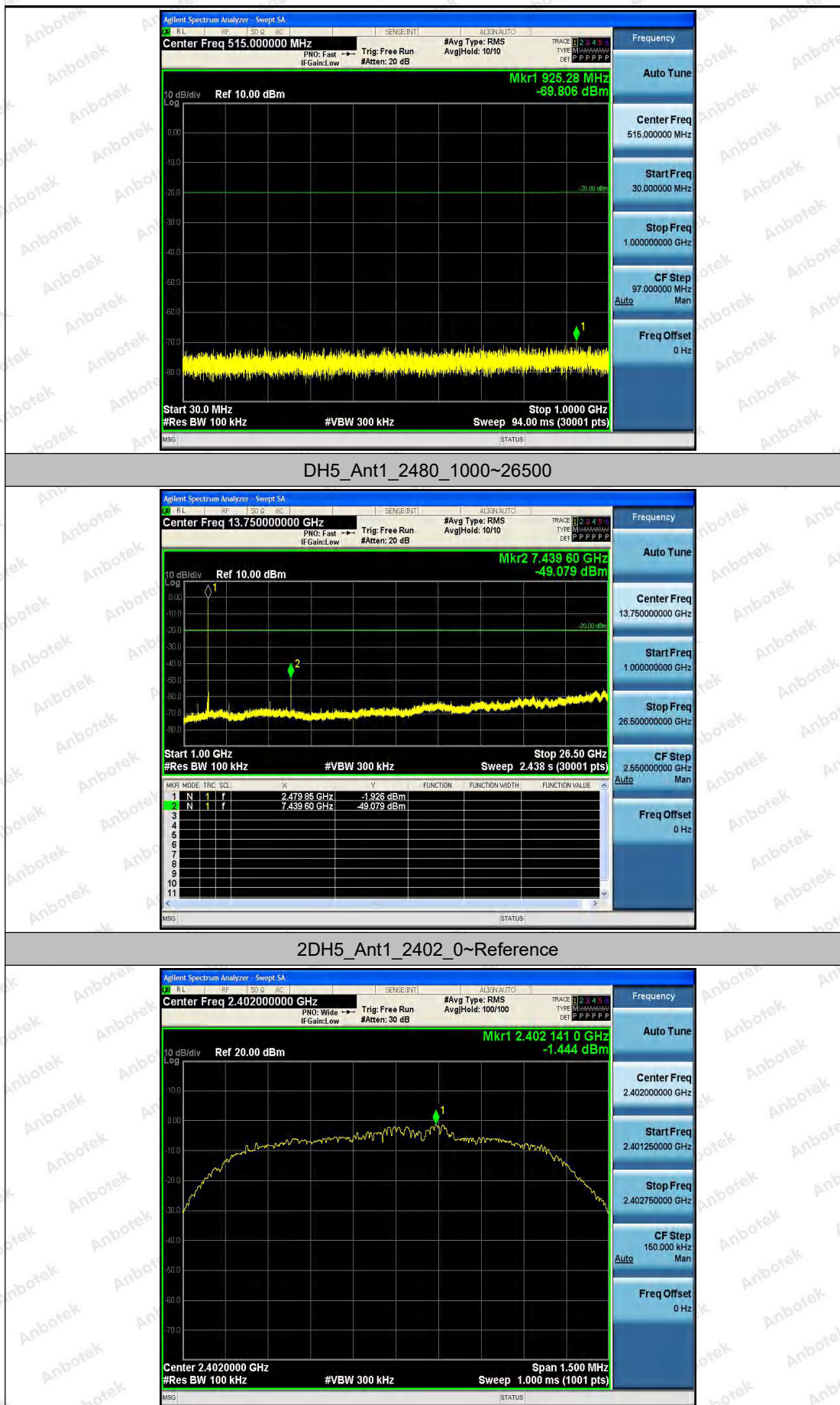
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com



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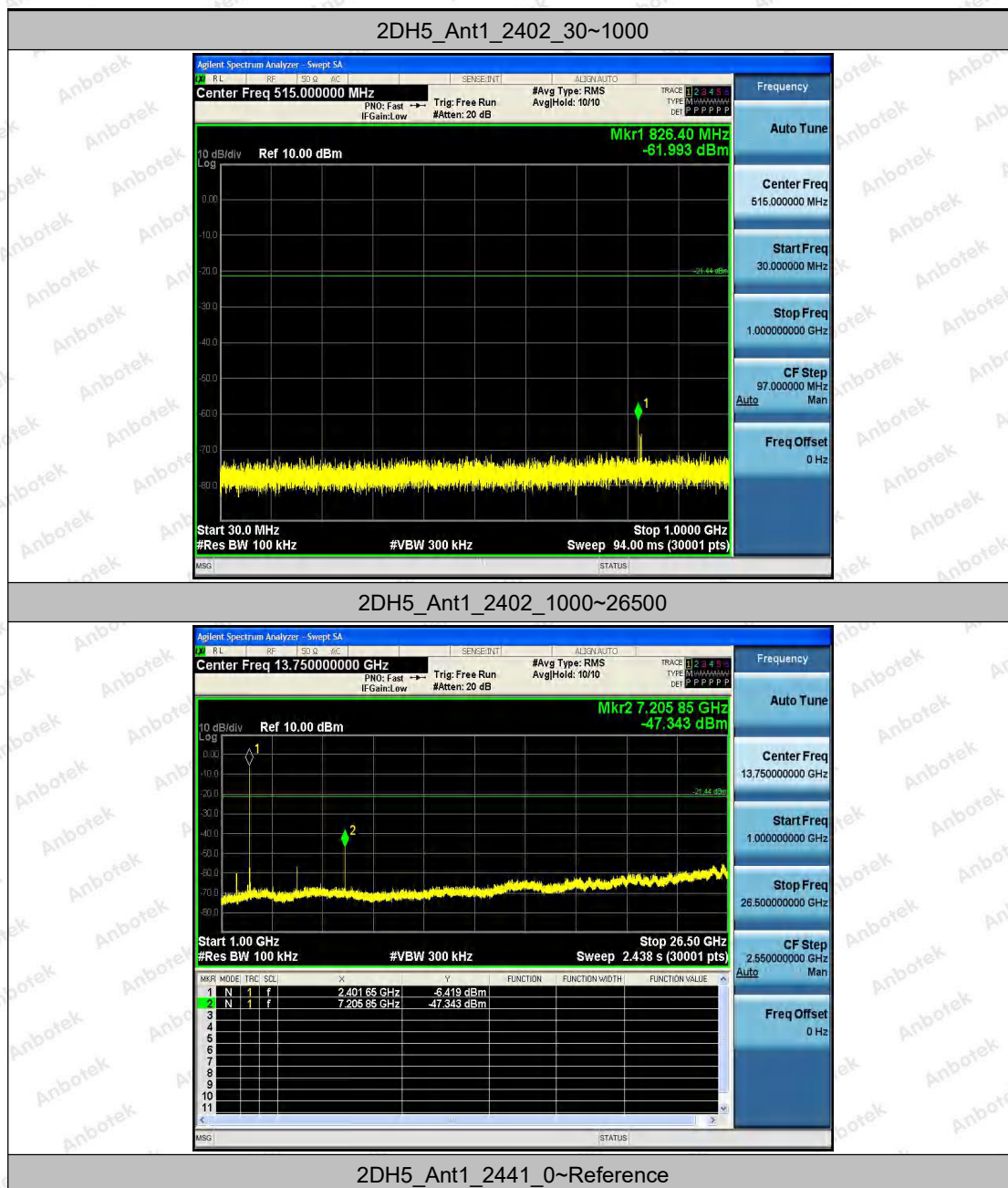


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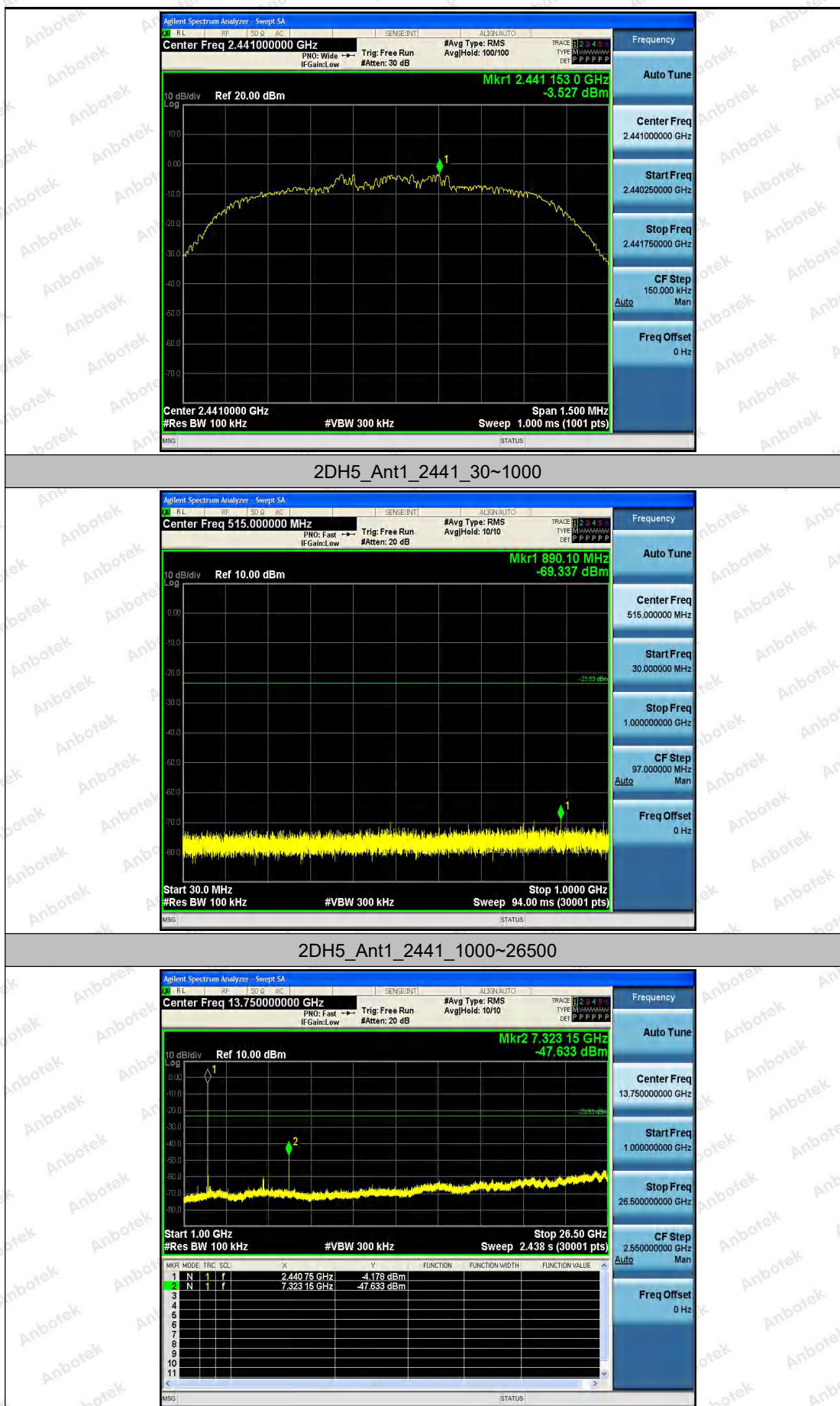


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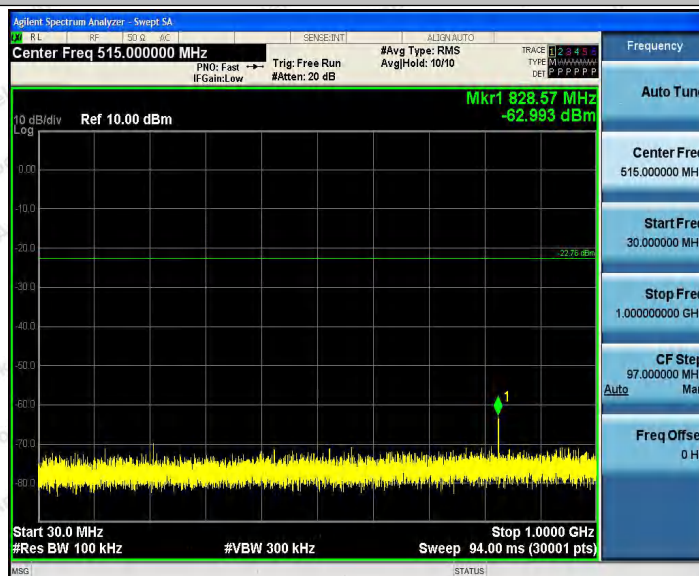
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



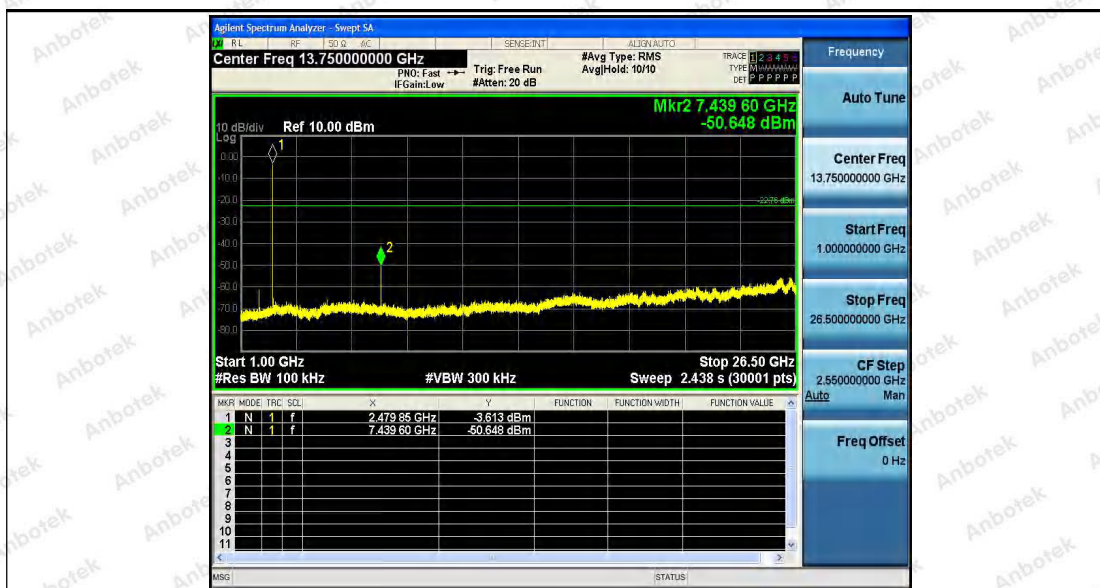
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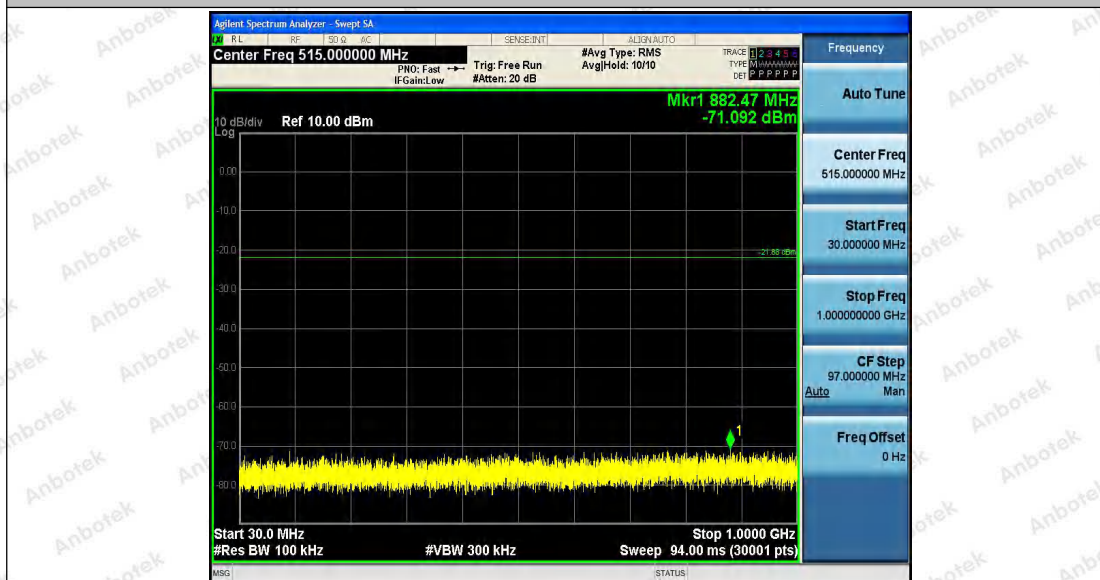
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



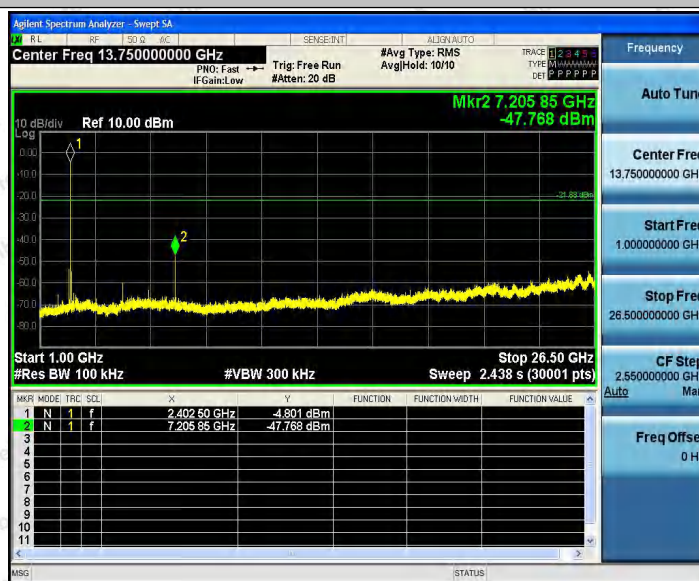
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



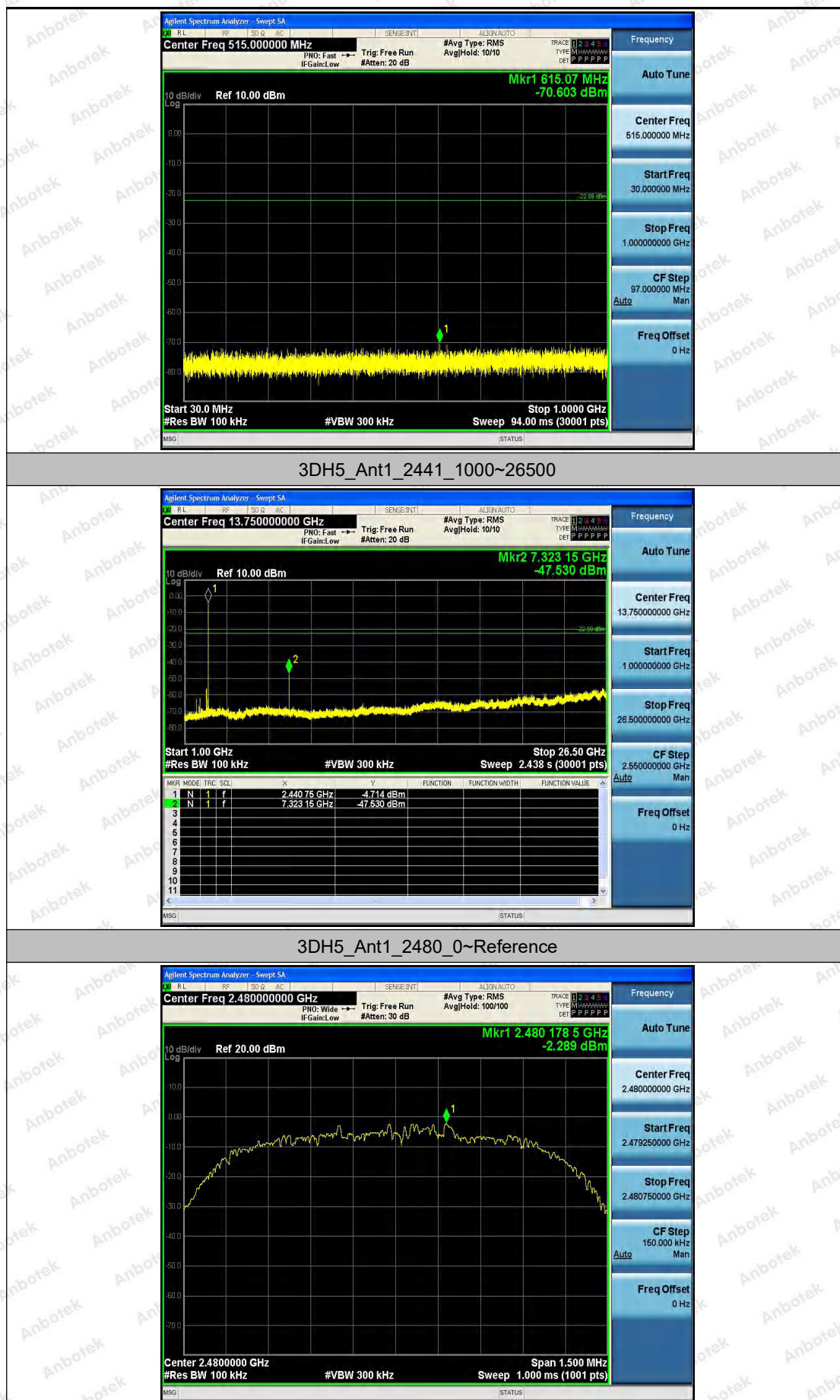
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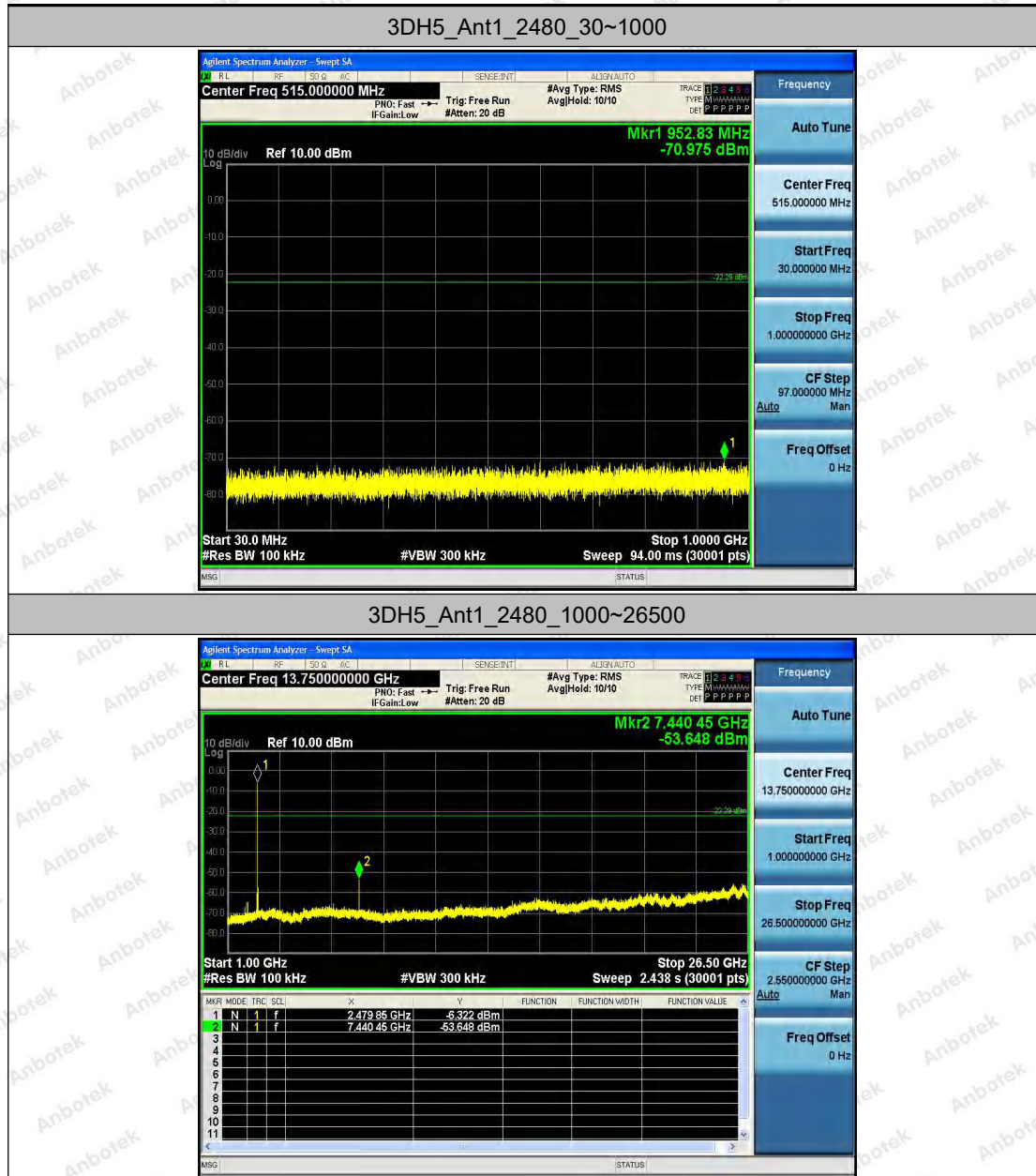


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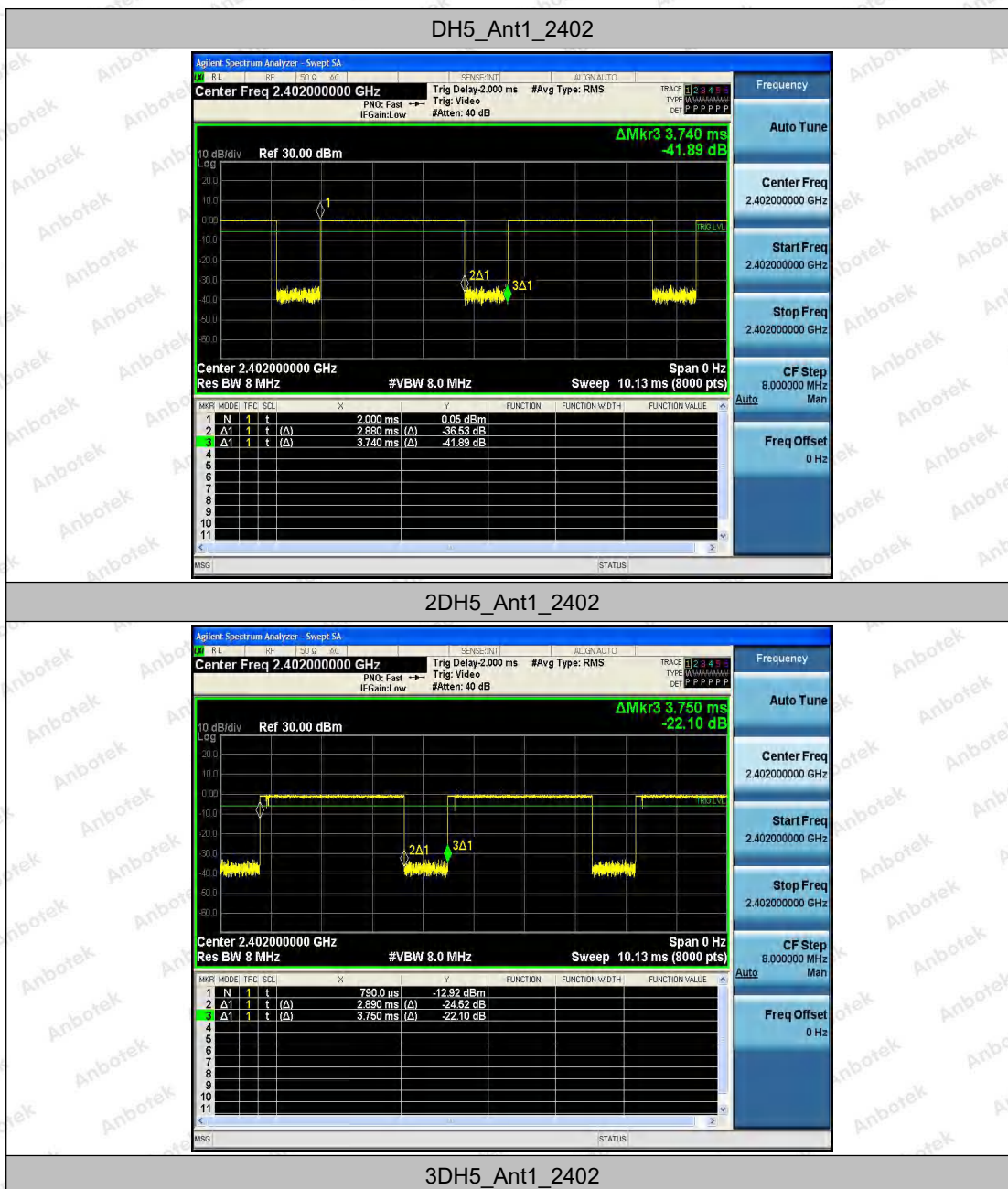
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Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.88	3.74	0.770 1	77.01	1.13	---	PASS
2DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS

Test Graphs

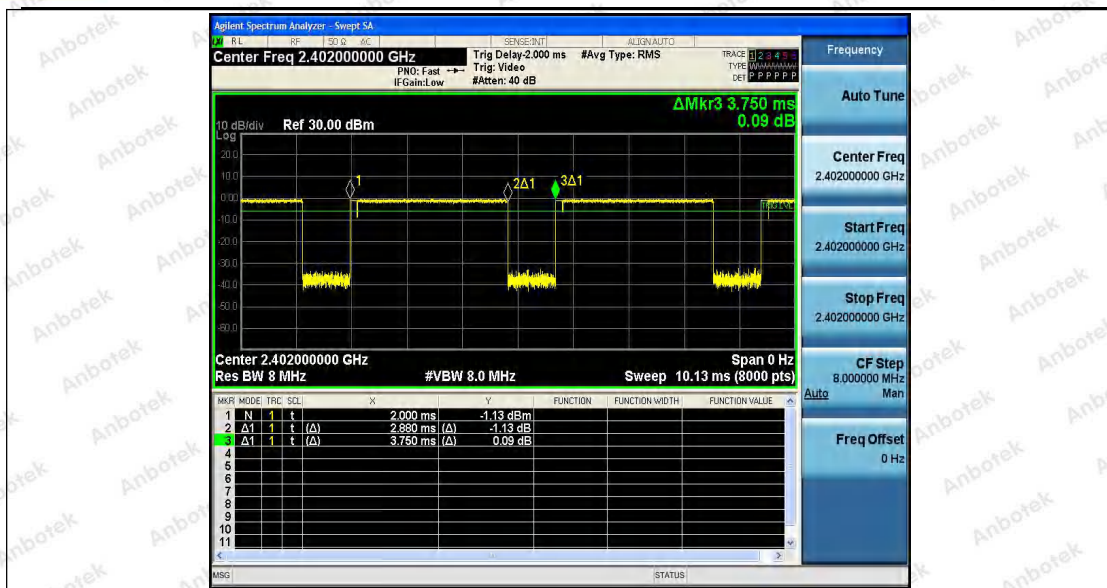


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