

Appendix Test Data

Report No.:	18220WC10240401	Test Date:	2021.11.4
Test Engineer:	<i>Tony 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	0.942	2401.535	2402.477	---	PASS
		2441	0.942	2440.535	2441.477	---	PASS
		2480	0.945	2479.538	2480.483	---	PASS
2DH5	Ant1	2402	1.269	2401.364	2402.633	---	PASS
		2441	1.326	2440.334	2441.660	---	PASS
		2480	1.323	2479.334	2480.657	---	PASS
3DH5	Ant1	2402	1.275	2401.349	2402.624	---	PASS
		2441	1.296	2440.346	2441.642	---	PASS
		2480	1.320	2479.328	2480.648	---	PASS

Test Graphs

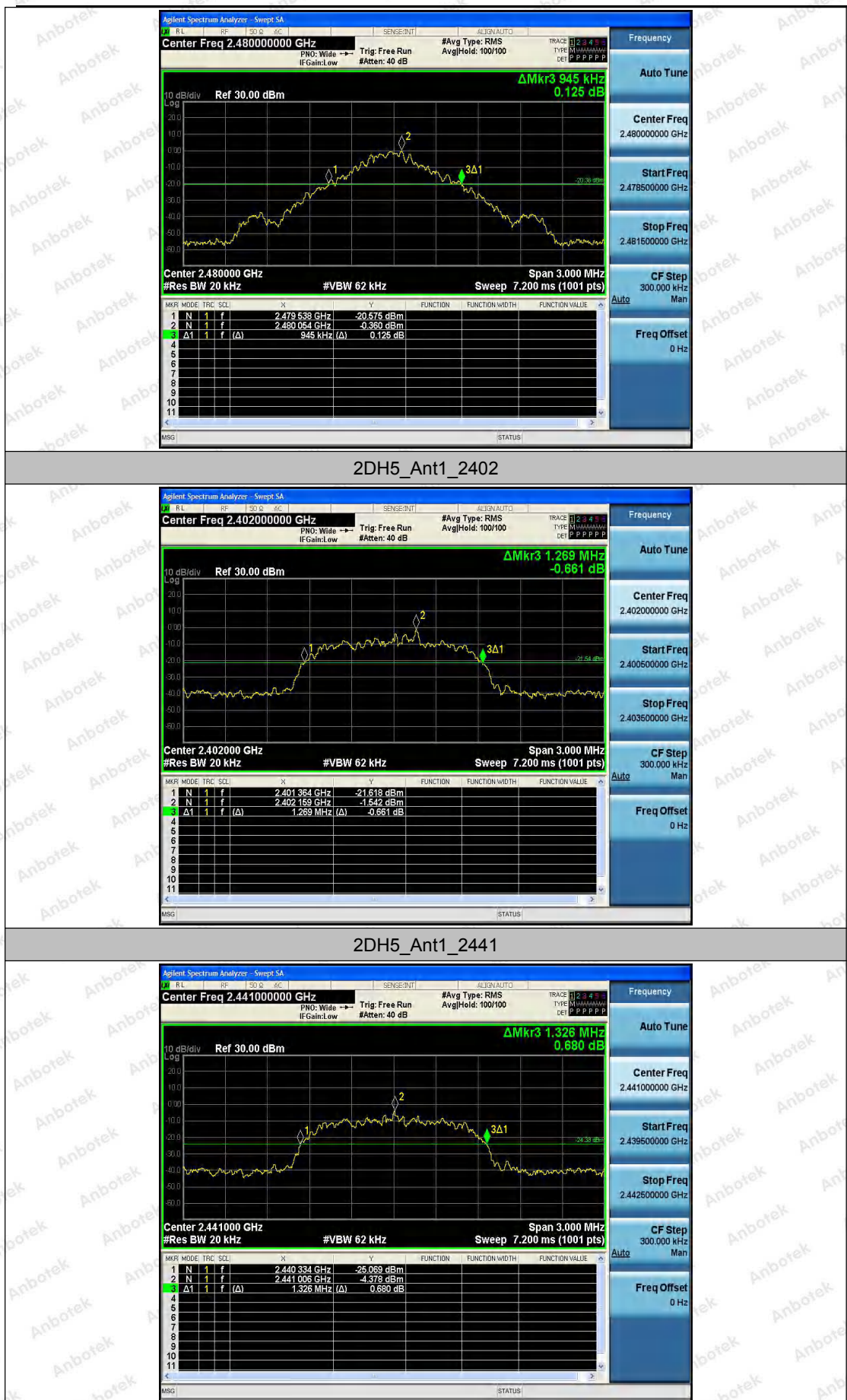


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2DH5_Ant1_2480



3DH5_Ant1_2402



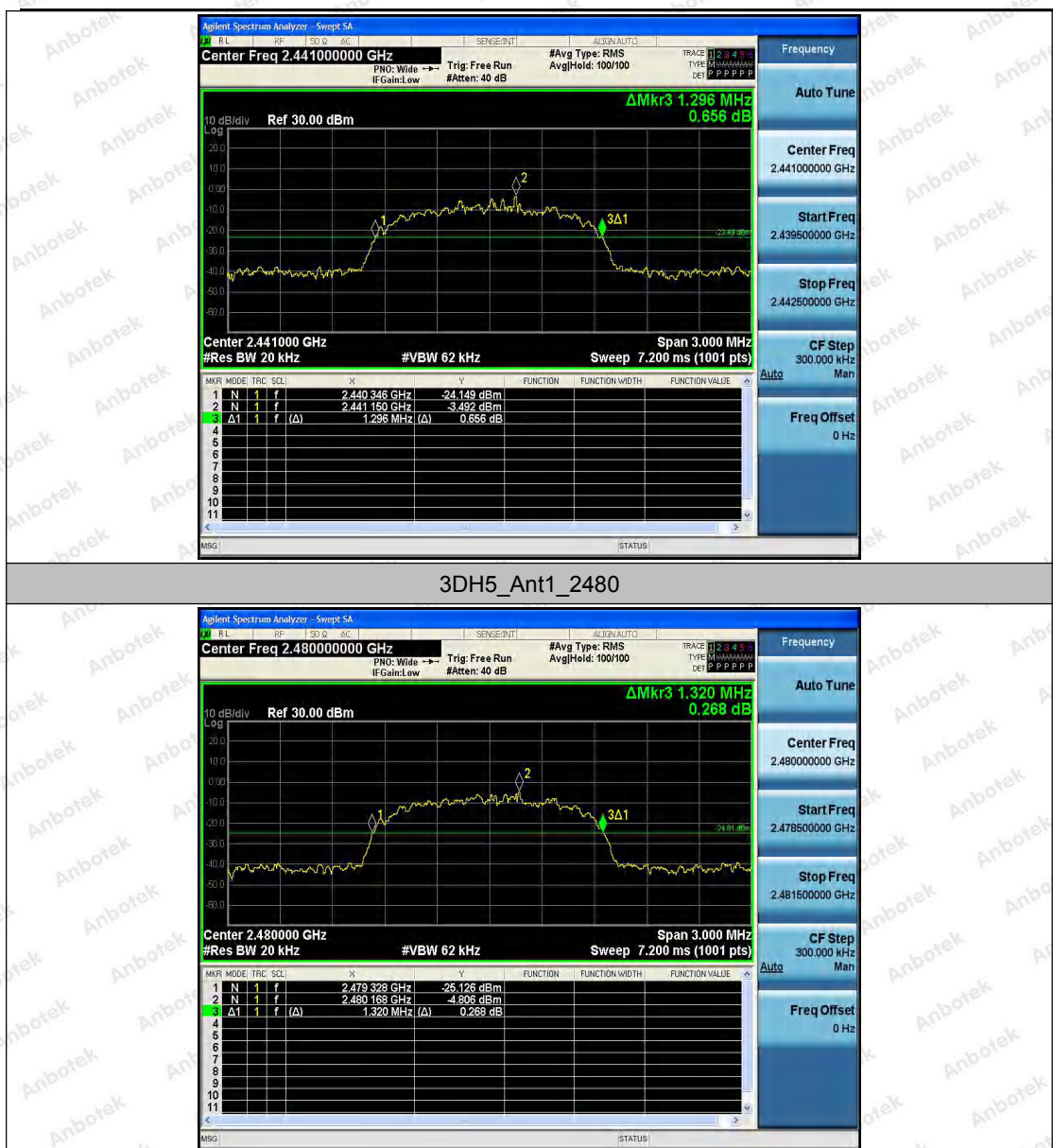
3DH5_Ant1_2441

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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	0.88892	2401.554	2402.443	---	PASS
		2441	0.90235	2440.548	2441.450	---	PASS
		2480	0.89576	2479.553	2480.449	---	PASS
2DH5	Ant1	2402	1.2068	2401.395	2402.602	---	PASS
		2441	1.2038	2440.394	2441.598	---	PASS
		2480	1.1980	2479.399	2480.597	---	PASS
3DH5	Ant1	2402	1.2186	2401.380	2402.598	---	PASS
		2441	1.2099	2440.385	2441.595	---	PASS
		2480	1.2075	2479.387	2480.594	---	PASS

Test Graphs

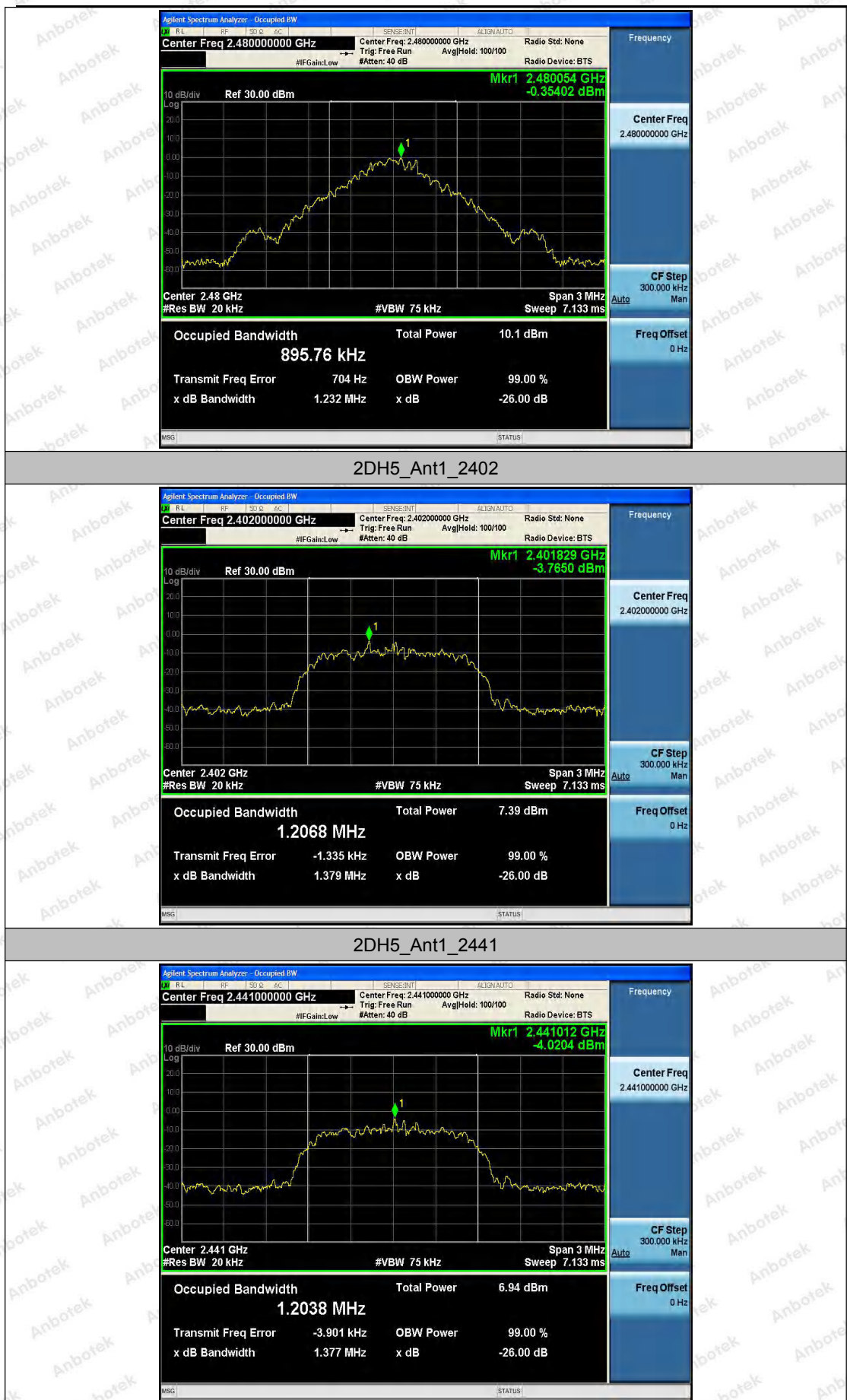


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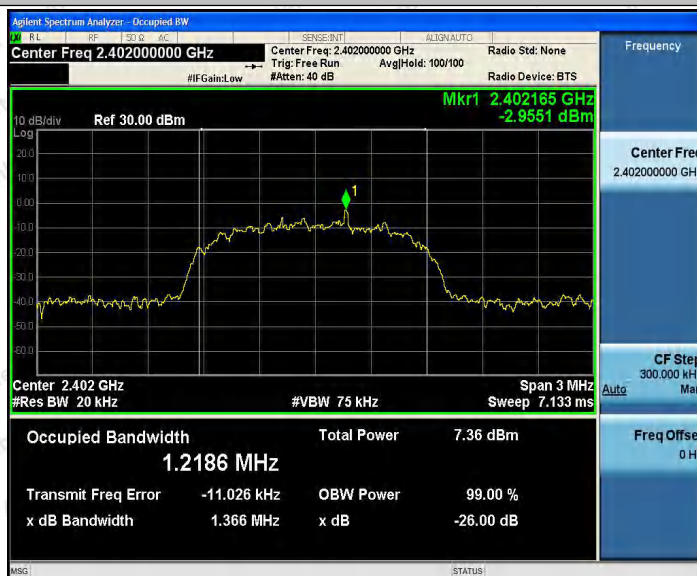
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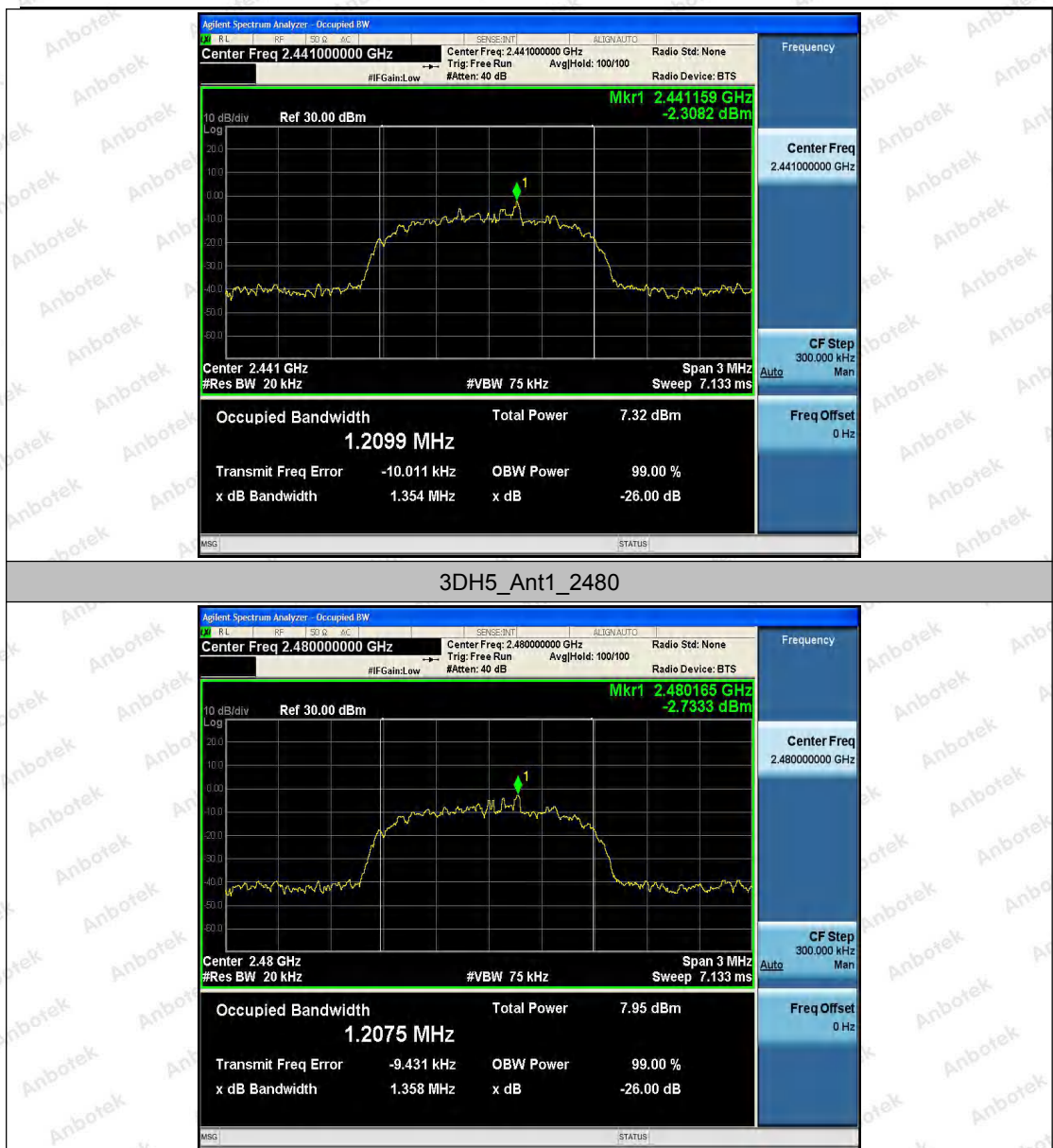
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



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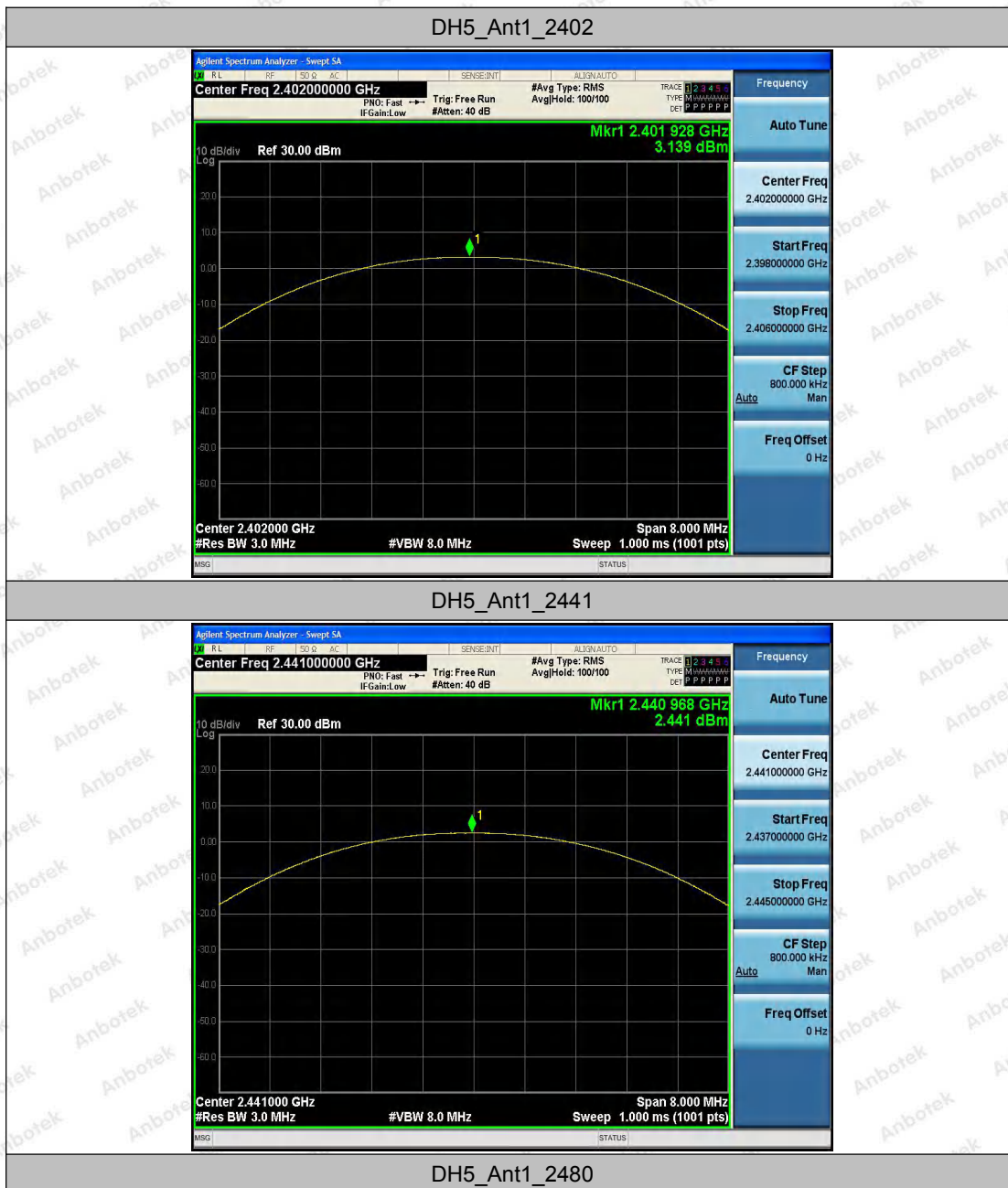
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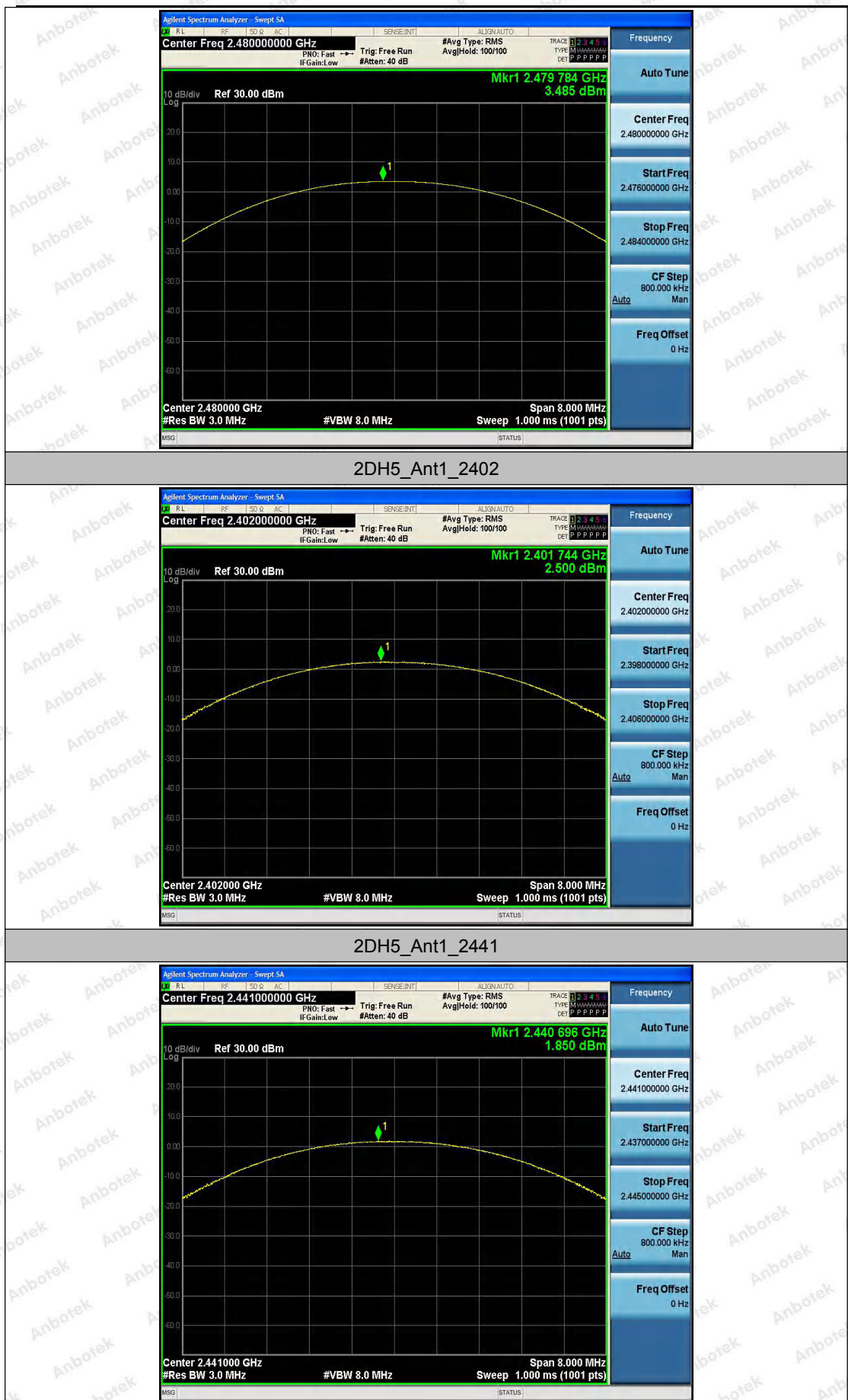
Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.14	≤20.97	PASS
		2441	2.44	≤20.97	PASS
		2480	3.49	≤20.97	PASS
2DH5	Ant1	2402	2.50	≤20.97	PASS
		2441	1.85	≤20.97	PASS
		2480	2.85	≤20.97	PASS
3DH5	Ant1	2402	2.59	≤20.97	PASS
		2441	1.93	≤20.97	PASS
		2480	2.93	≤20.97	PASS

Test Graphs





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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.856	≥ 0.630	PASS
2DH5	Ant1	Hop	0.954	≥ 0.884	PASS
3DH5	Ant1	Hop	1.132	≥ 0.880	PASS

Test Graphs



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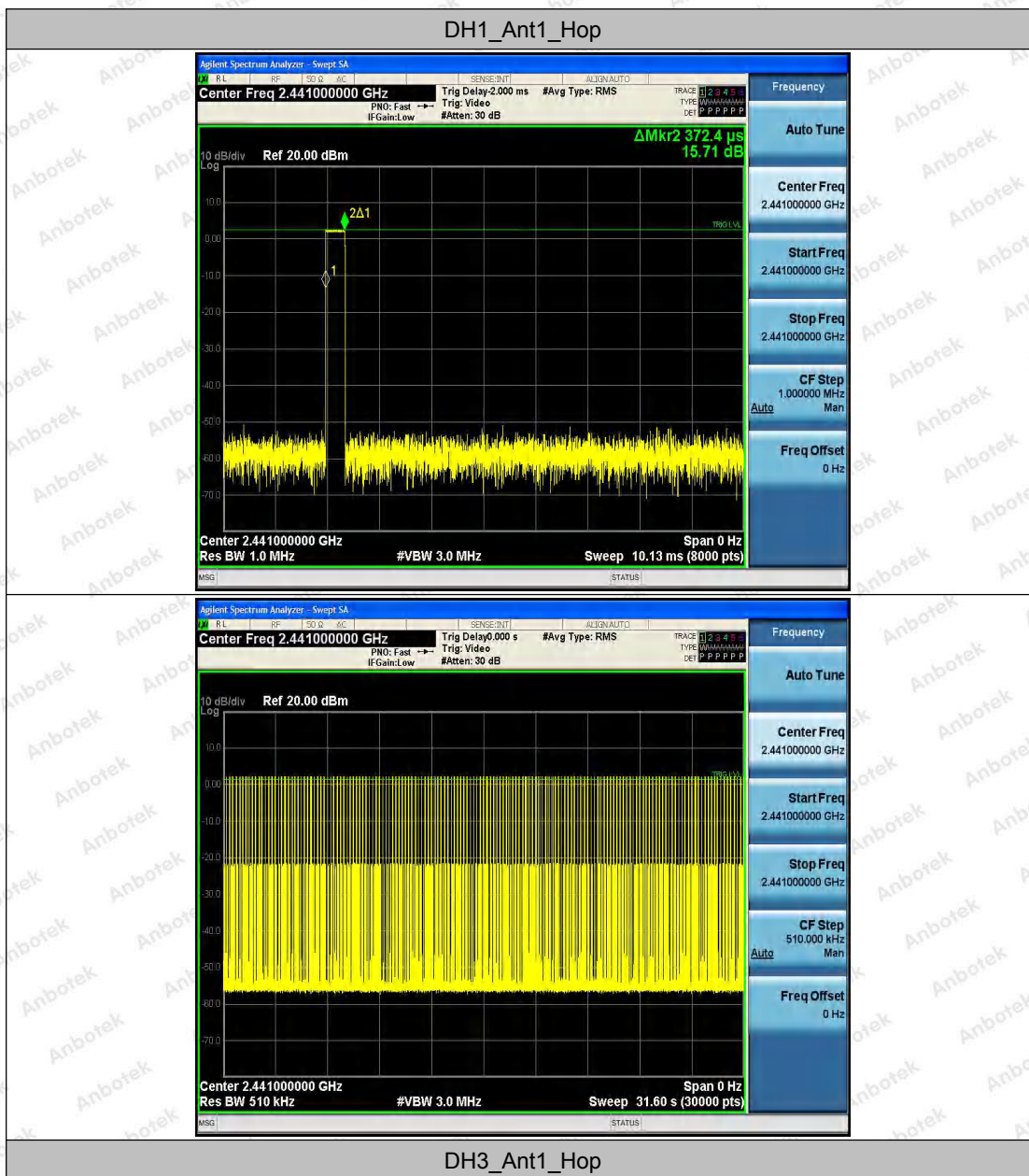
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Appendix E: Time of occupancy

Test Result

Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	313	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	158	0.257	≤0.4	PASS
DH5	Ant1	Hop	2.88	99	0.285	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
2DH5	Ant1	Hop	2.88	106	0.305	≤0.4	PASS
3DH1	Ant1	Hop	0.38	312	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	160	0.261	≤0.4	PASS
3DH5	Ant1	Hop	2.88	98	0.282	≤0.4	PASS

Test Graphs



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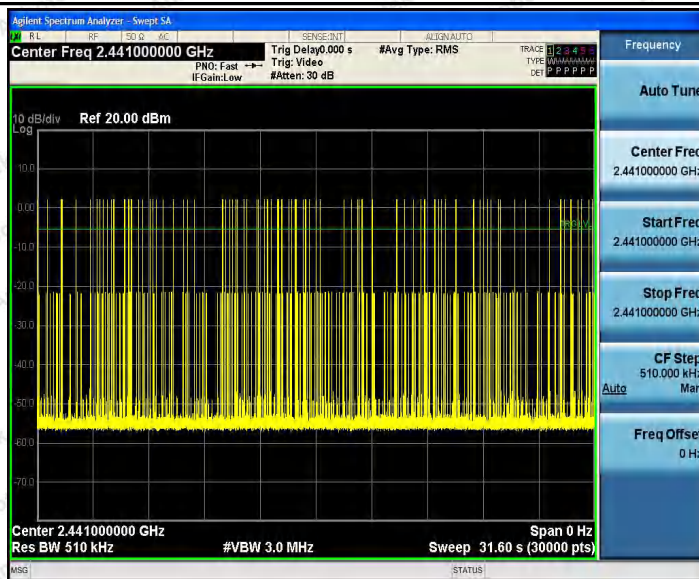
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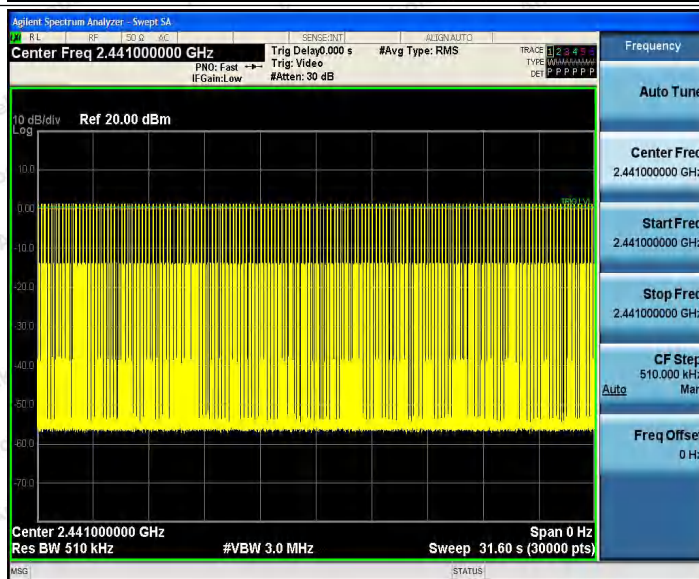
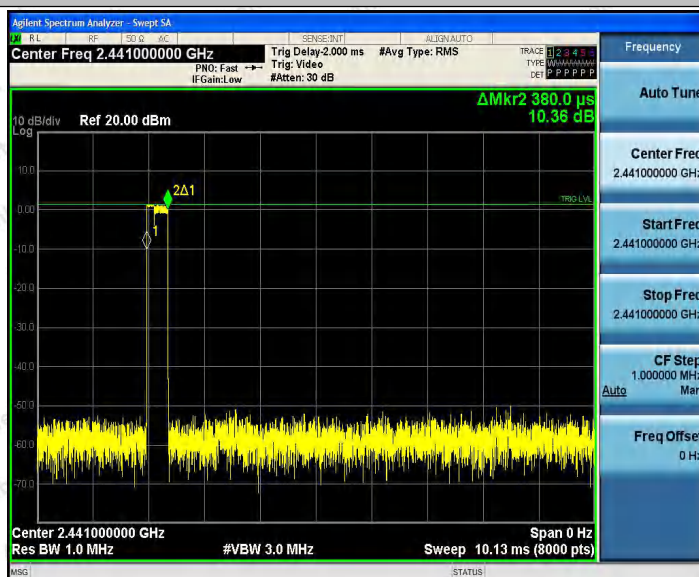
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DH5_Ant1_Hop



2DH1_Ant1_Hop



2DH3_Ant1_Hop

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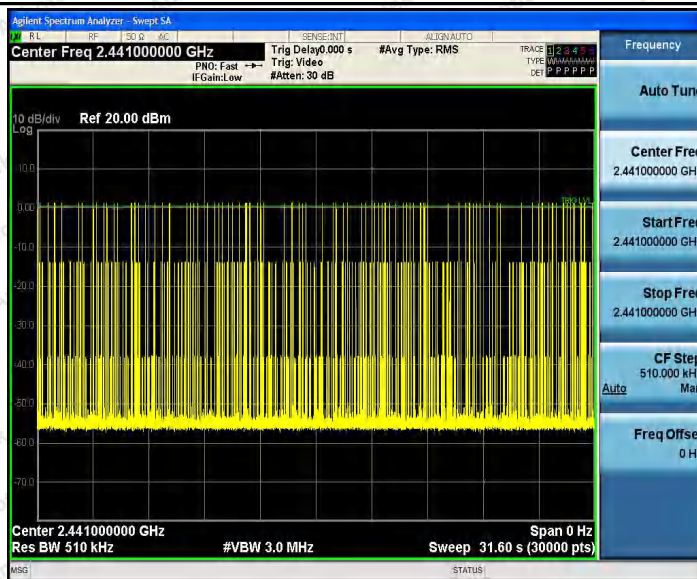


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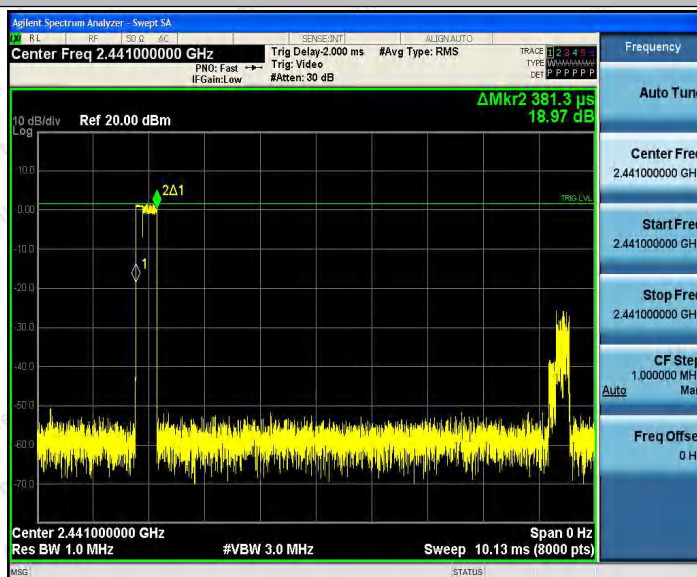
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3DH1_Ant1_Hop



3DH3_Ant1_Hop

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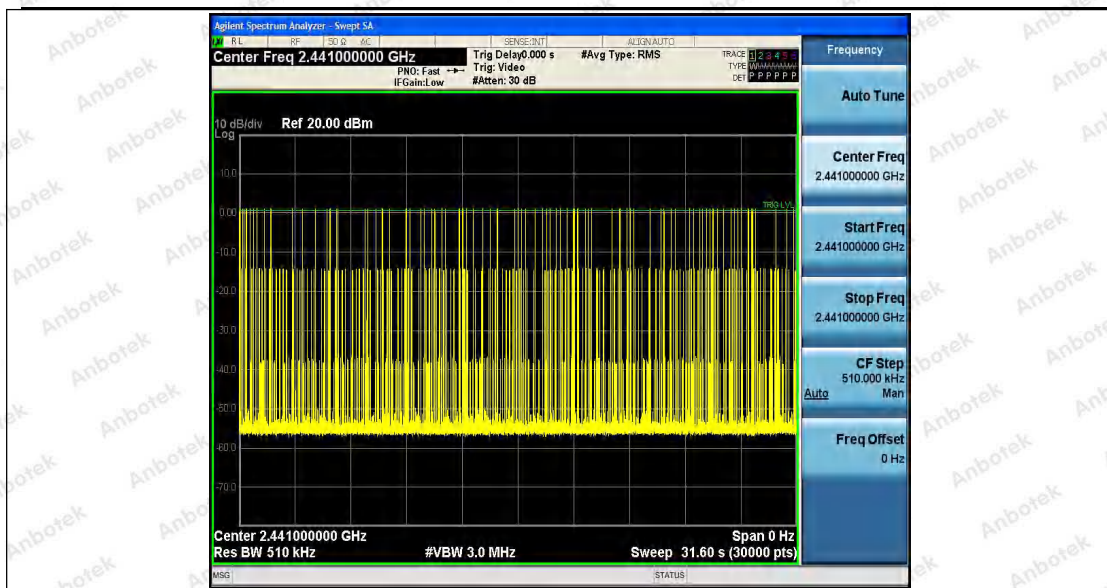
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3DH5_Ant1_Hop



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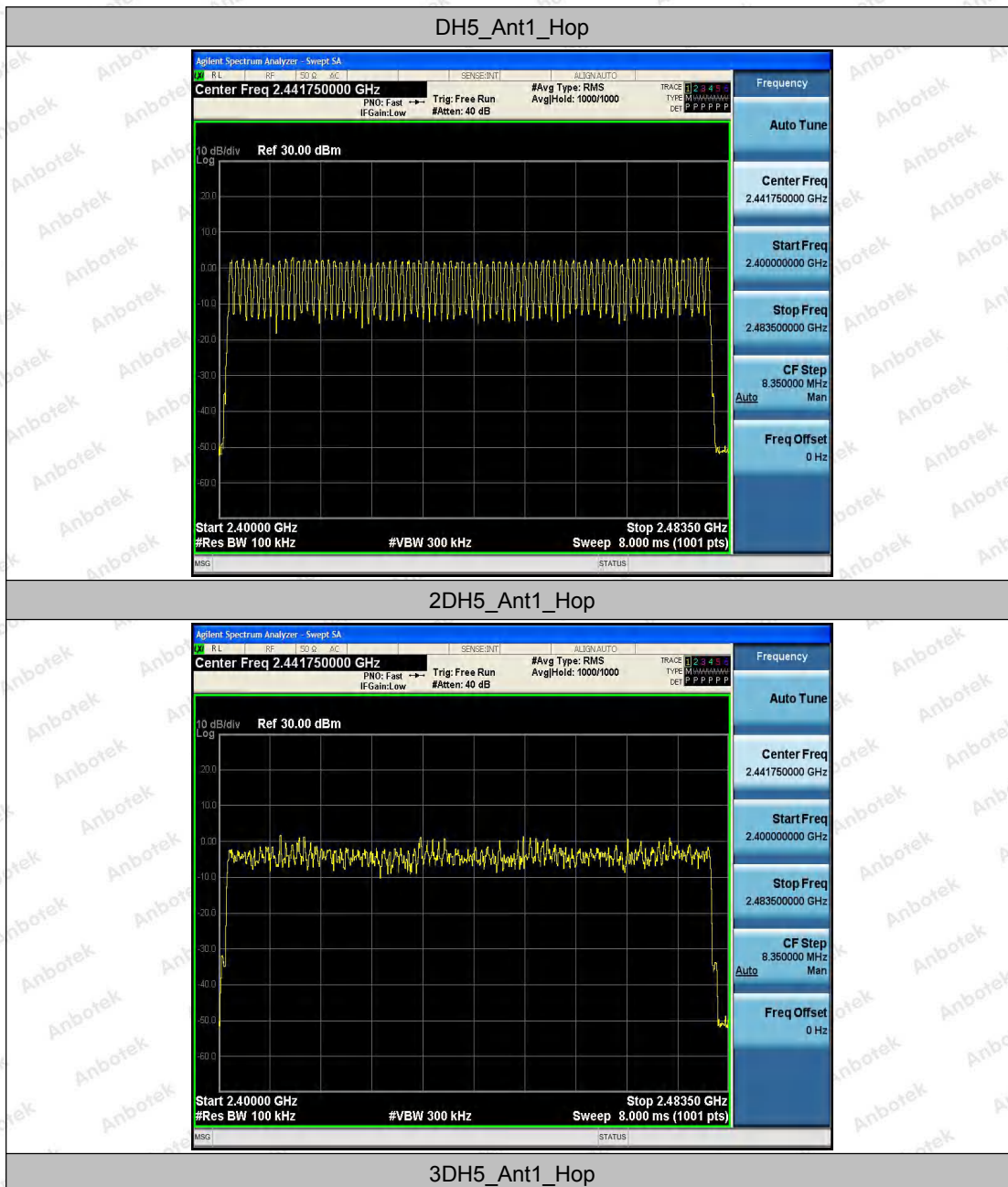
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Appendix F: Number of hopping channels

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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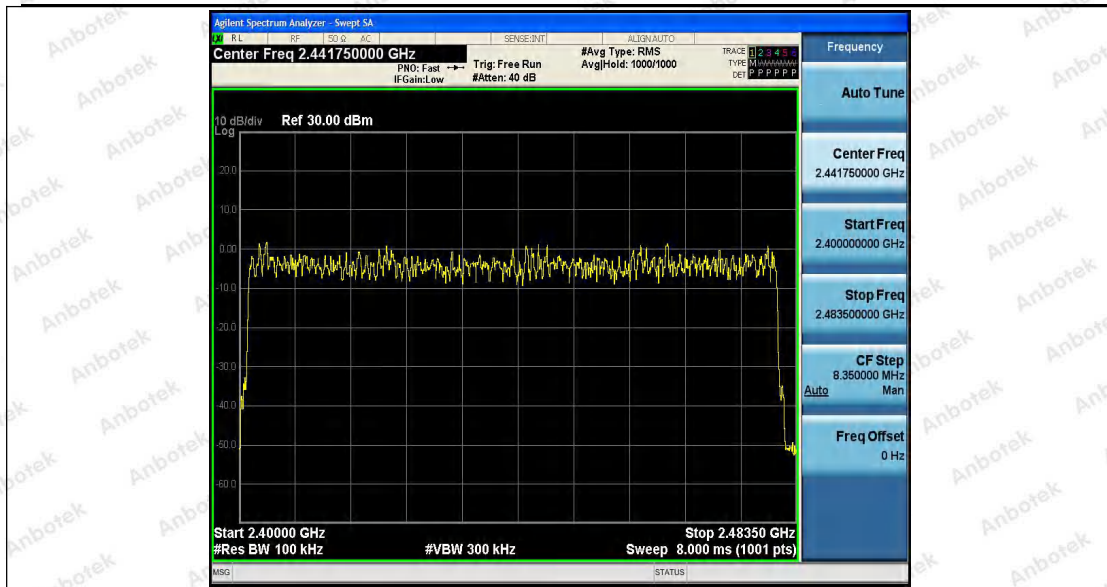
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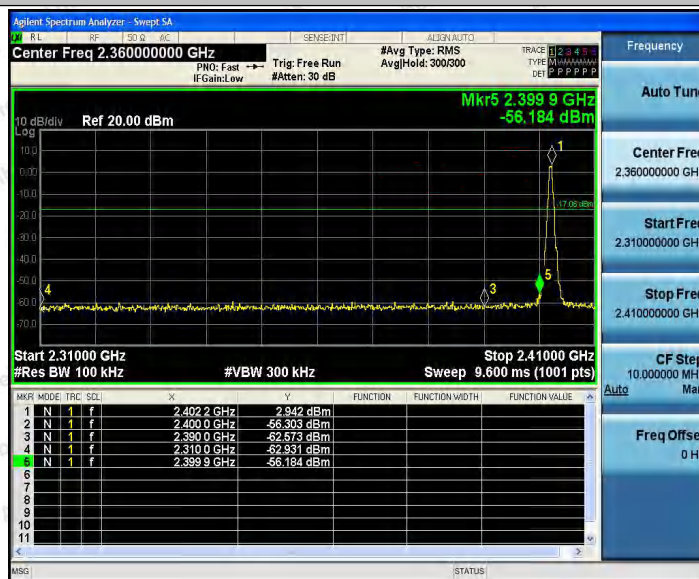
Appendix G: Band edge measurements

Test Result

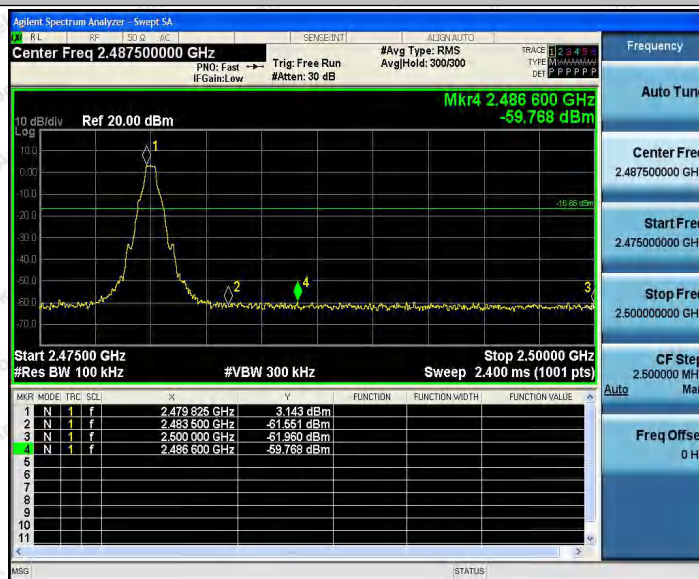
Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.94	-56.18	≤ -17.06	PASS
		High	2480	3.14	-59.77	≤ -16.86	PASS
		Low	Hop	2.58	-59.64	≤ -17.42	PASS
		High	Hop	2.94	-60.62	≤ -17.06	PASS
2DH5	Ant1	Low	2402	1.27	-53.87	≤ -18.74	PASS
		High	2480	1.85	-59.25	≤ -18.15	PASS
		Low	Hop	0.59	-58.8	≤ -19.41	PASS
		High	Hop	0.92	-62.93	≤ -19.08	PASS
3DH5	Ant1	Low	2402	1.20	-55.31	≤ -18.8	PASS
		High	2480	1.09	-59.23	≤ -18.91	PASS
		Low	Hop	-1.18	-59.82	≤ -21.18	PASS
		High	Hop	0.78	-63.21	≤ -19.22	PASS

Test Graphs

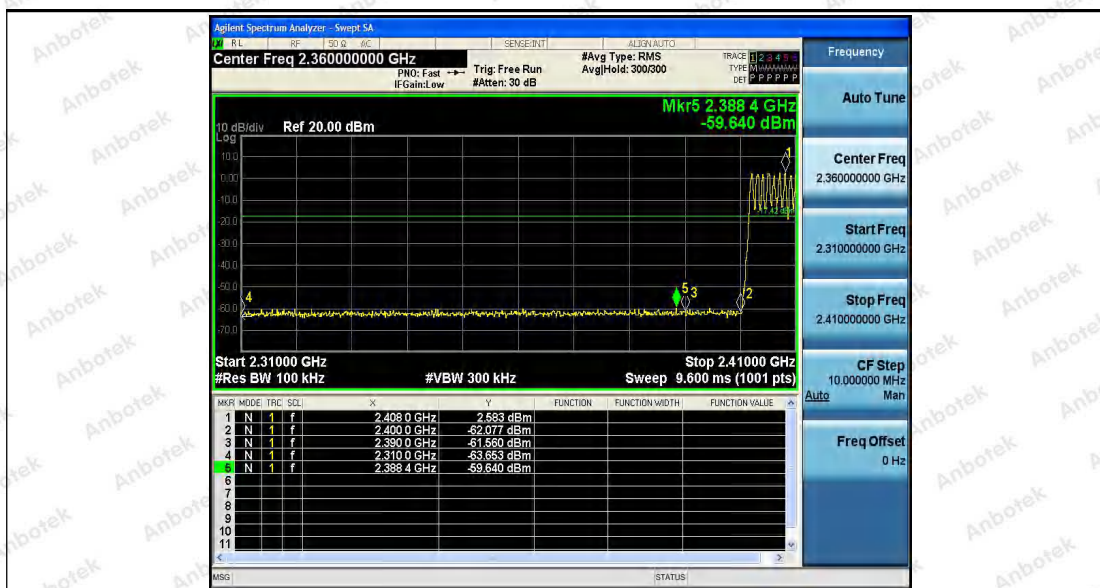
DH5_Ant1_Low_2402



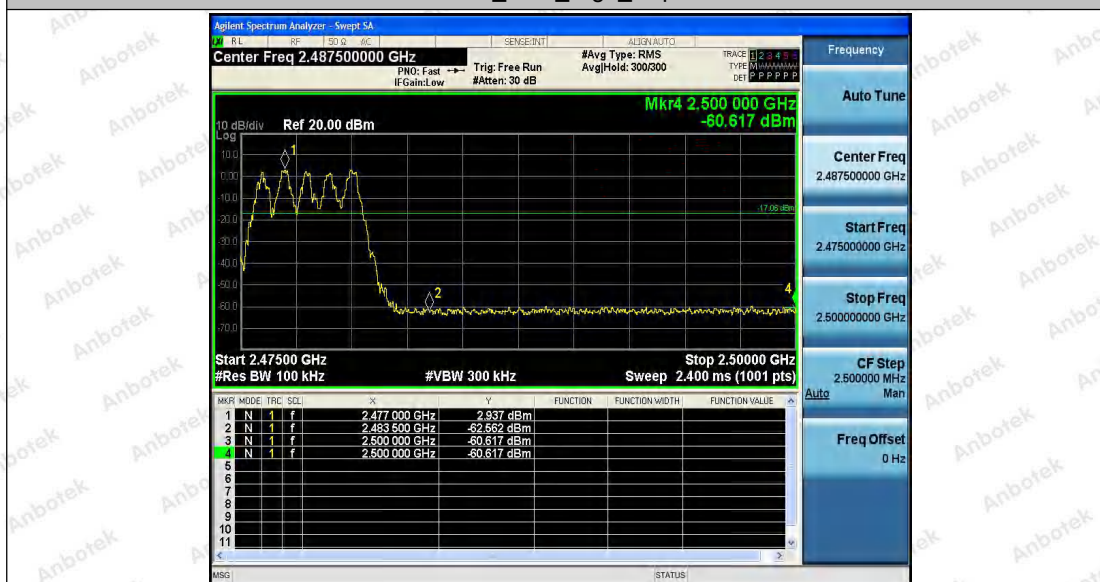
DH5_Ant1_High_2480



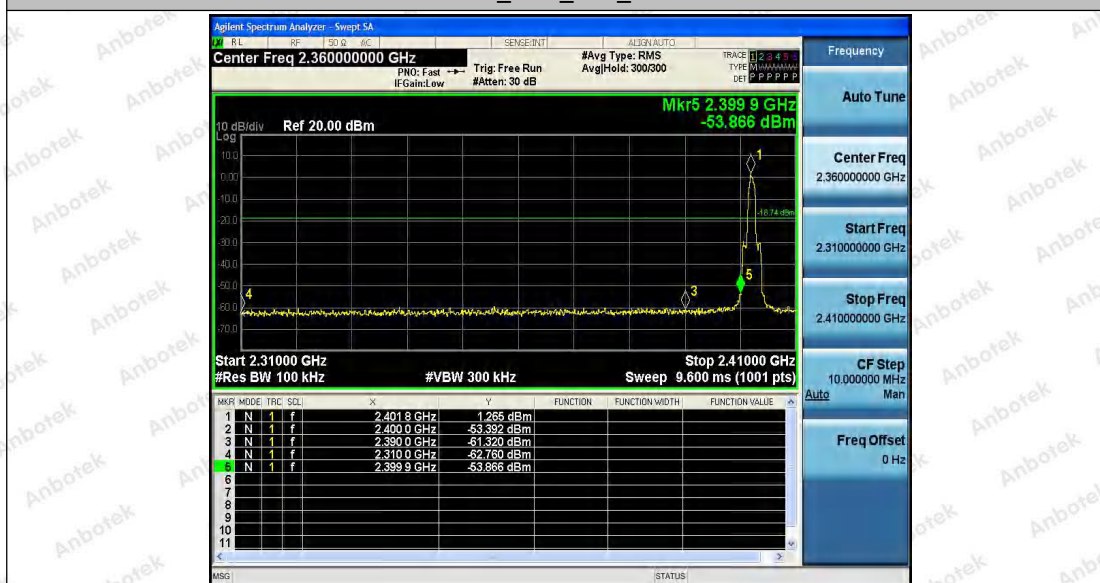
DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



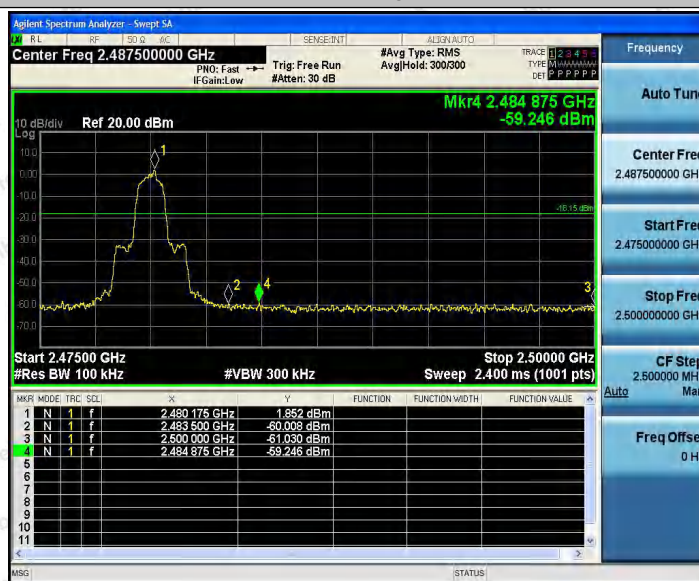
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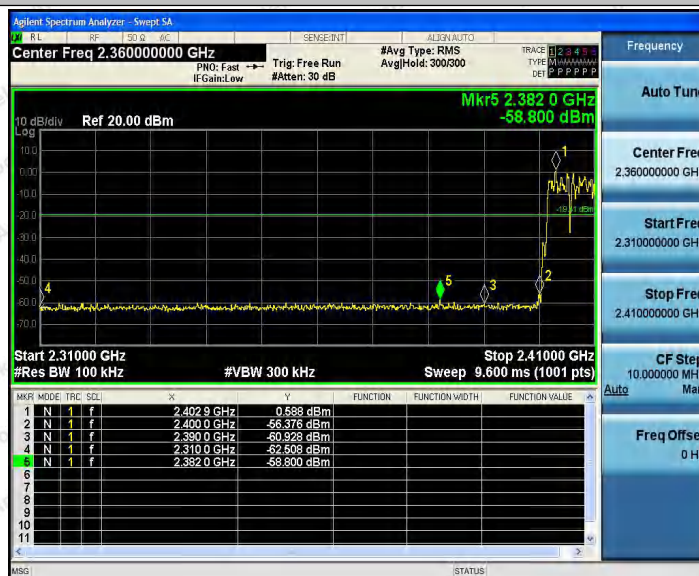
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



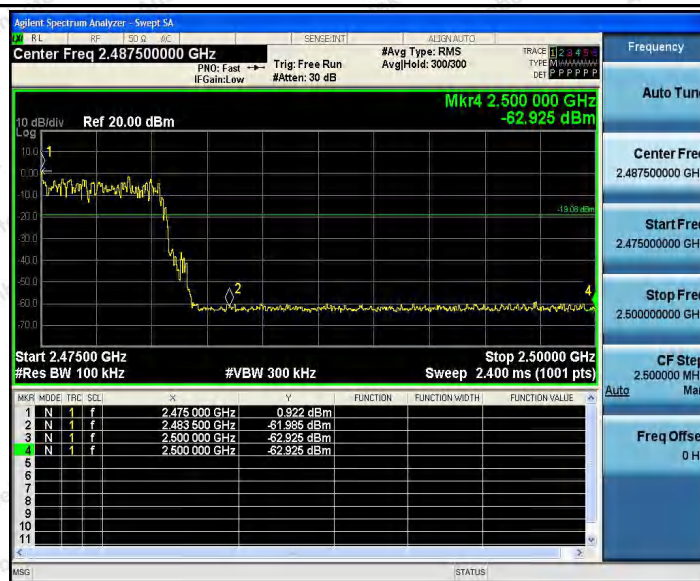
2DH5_Ant1_High_Hop

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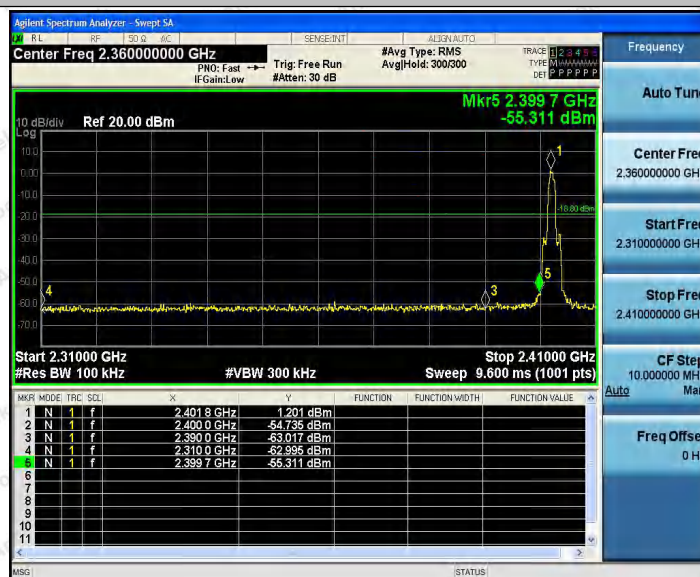
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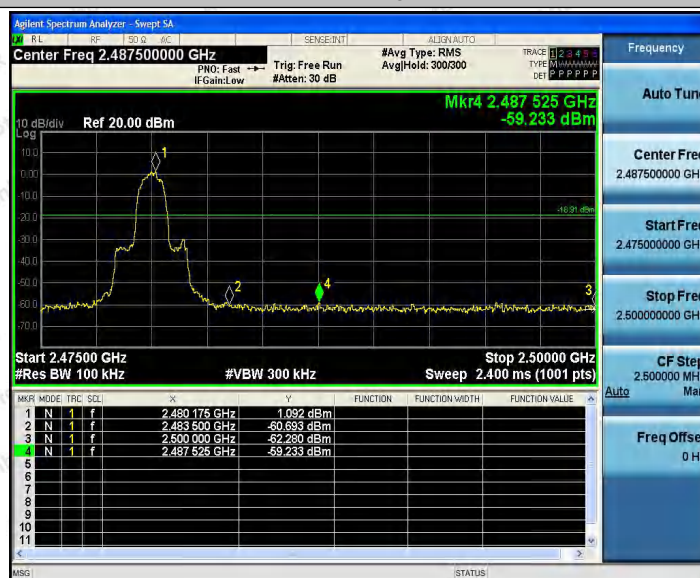
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



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Appendix H: Conducted Spurious Emission

Test Result

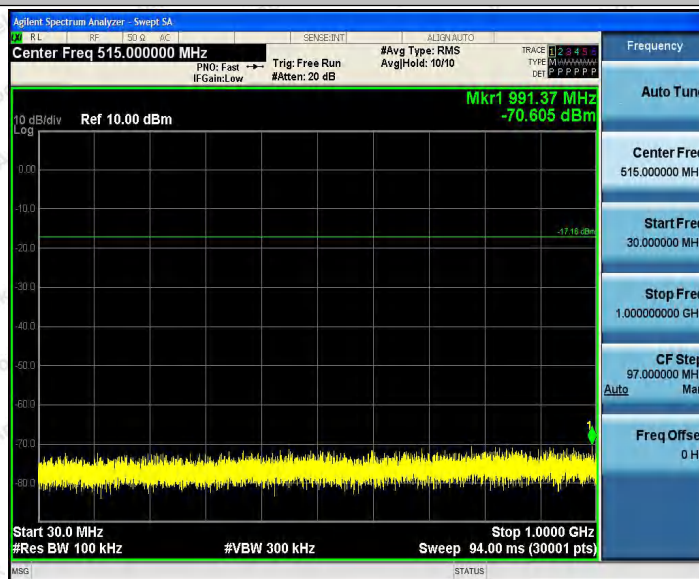
Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.84	2.84	---	PASS
			30~1000	2.84	-70.61	≤-17.16	PASS
			1000~26500	2.84	-55.58	≤-17.16	PASS
		2441	Reference	1.64	1.64	---	PASS
			30~1000	1.64	-68.85	≤-18.37	PASS
			1000~26500	1.64	-55.77	≤-18.37	PASS
		2480	Reference	2.92	2.92	---	PASS
			30~1000	2.92	-70.4	≤-17.09	PASS
			1000~26500	2.92	-55.15	≤-17.09	PASS
2DH5	Ant1	2402	Reference	1.58	1.58	---	PASS
			30~1000	1.58	-69.94	≤-18.42	PASS
			1000~26500	1.58	-55.57	≤-18.42	PASS
		2441	Reference	0.86	0.86	---	PASS
			30~1000	0.86	-70.19	≤-19.15	PASS
			1000~26500	0.86	-55.69	≤-19.15	PASS
		2480	Reference	1.95	1.95	---	PASS
			30~1000	1.95	-70.83	≤-18.05	PASS
			1000~26500	1.95	-54.15	≤-18.05	PASS
3DH5	Ant1	2402	Reference	1.66	1.66	---	PASS
			30~1000	1.66	-70.18	≤-18.34	PASS
			1000~26500	1.66	-54.49	≤-18.34	PASS
		2441	Reference	1.09	1.09	---	PASS
			30~1000	1.09	-70.11	≤-18.91	PASS
			1000~26500	1.09	-55.5	≤-18.91	PASS
		2480	Reference	2.03	2.03	---	PASS
			30~1000	2.03	-70.38	≤-17.97	PASS
			1000~26500	2.03	-55.23	≤-17.97	PASS

Test Graphs

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500

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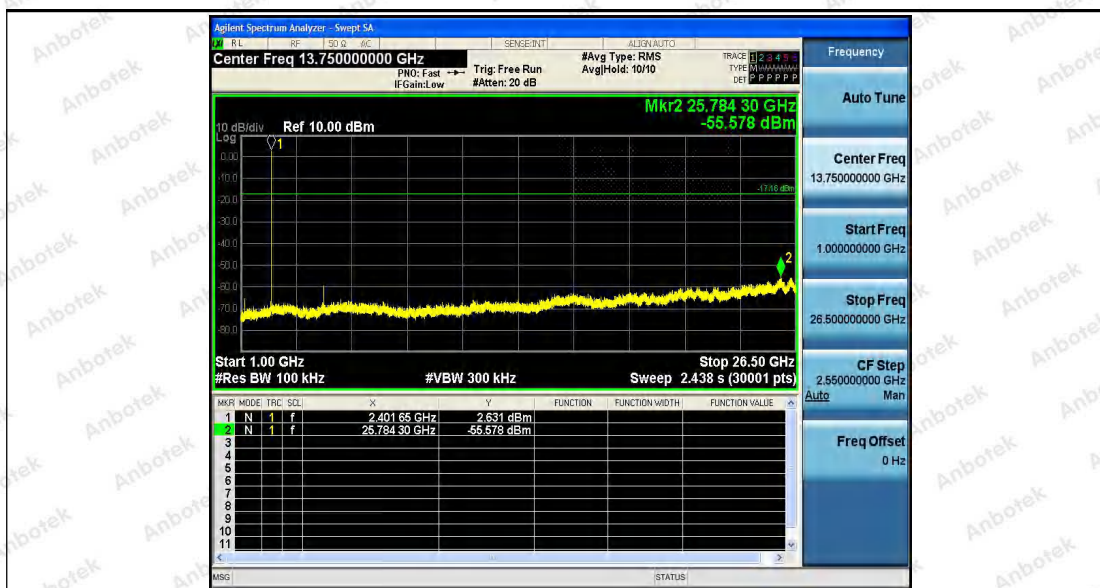
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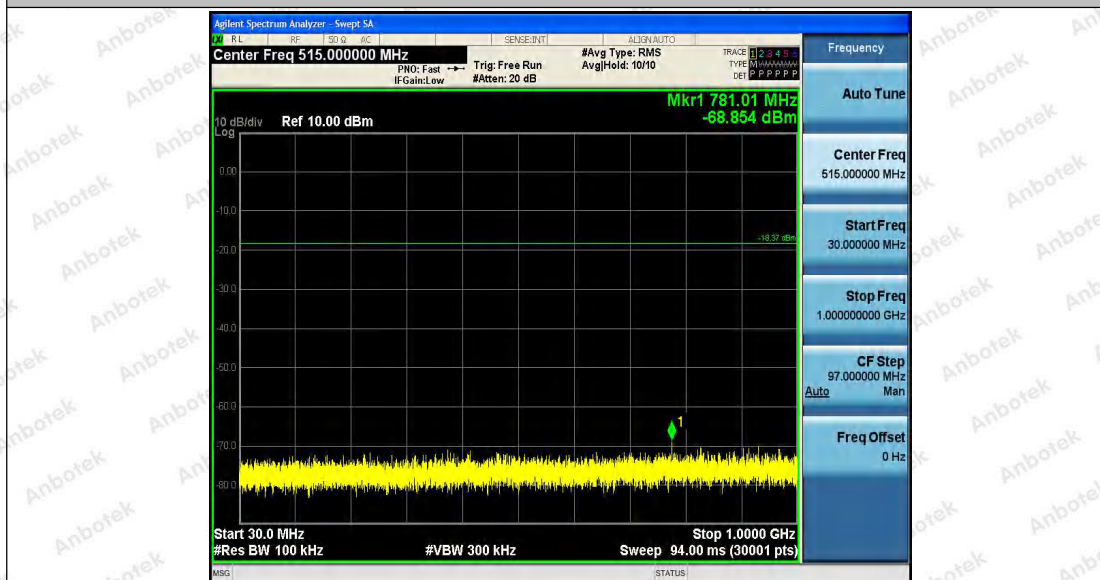
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



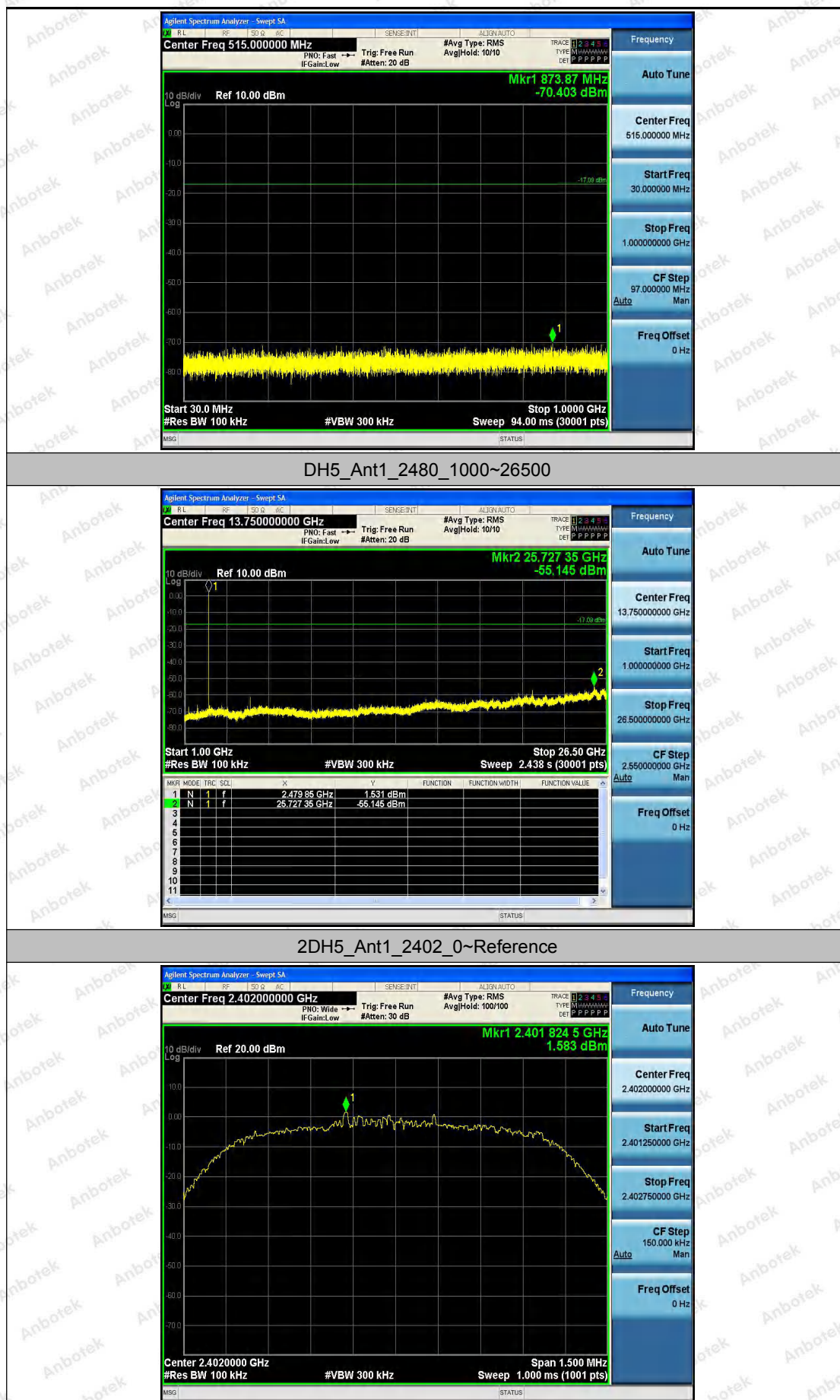
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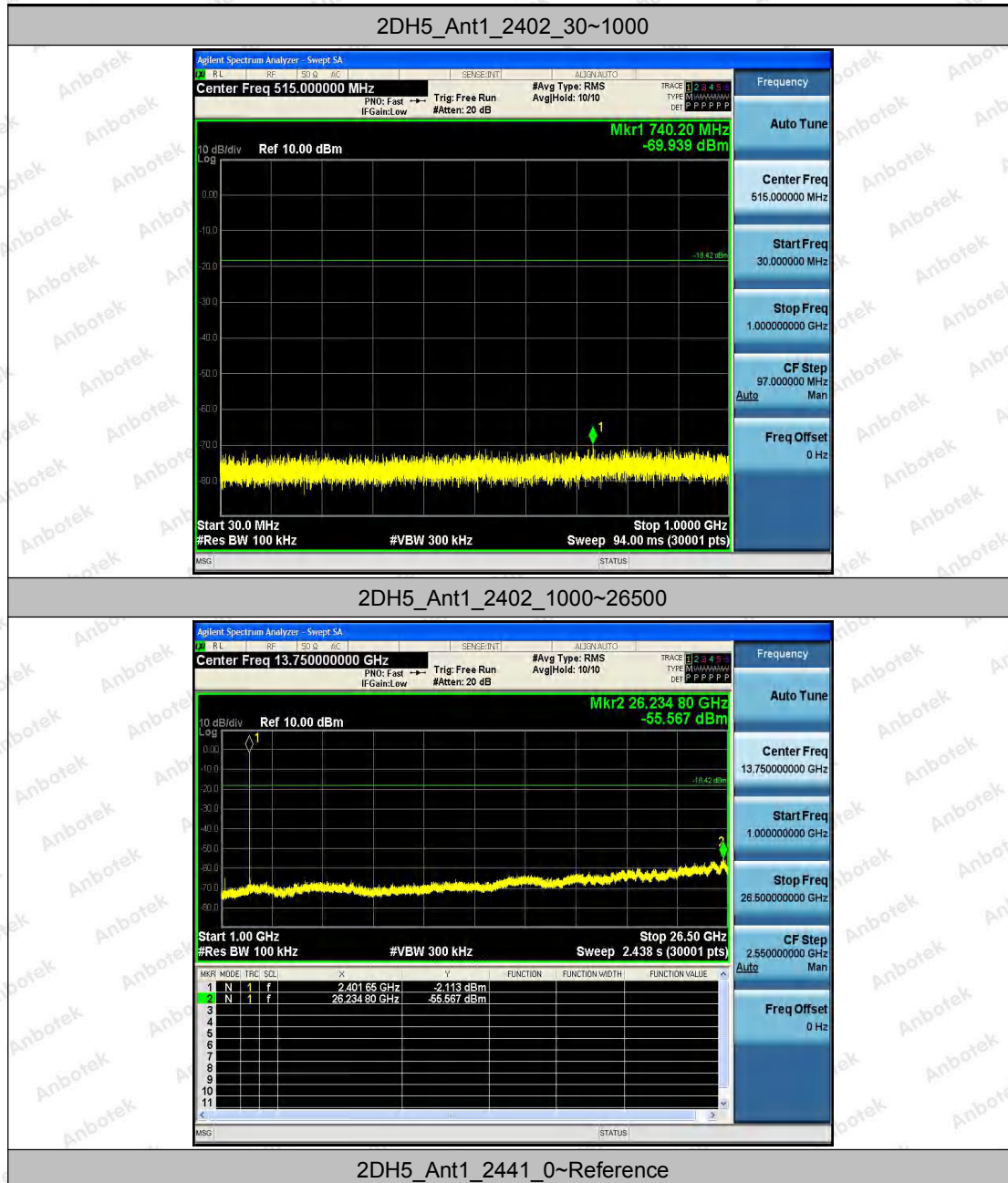


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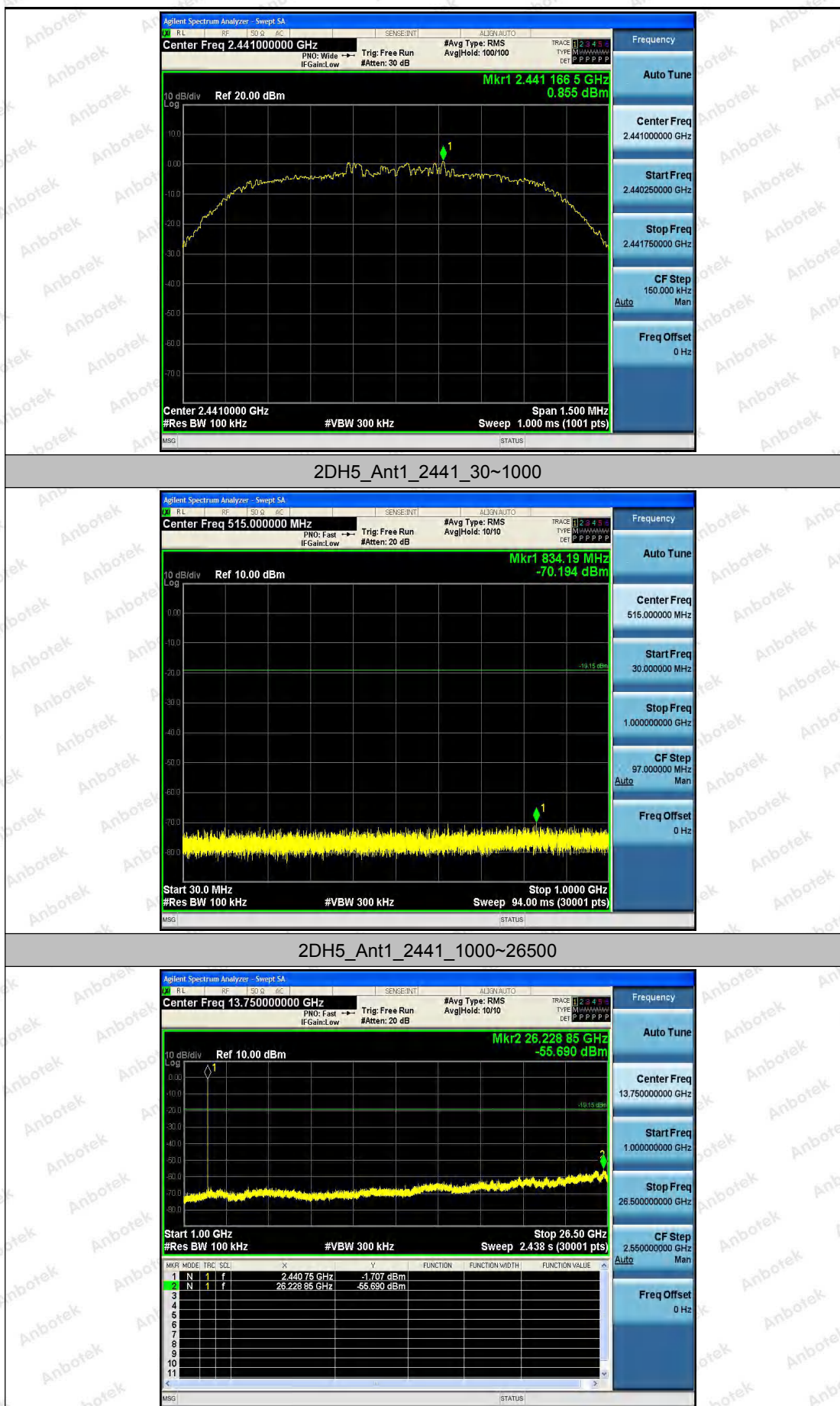
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com



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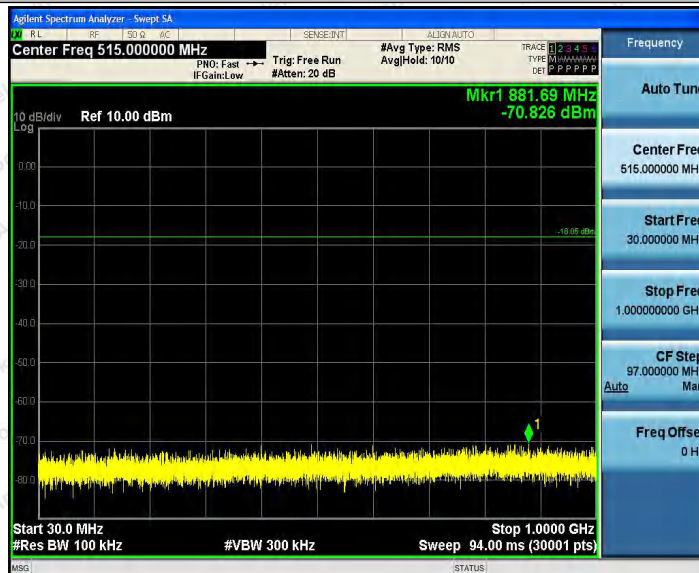
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

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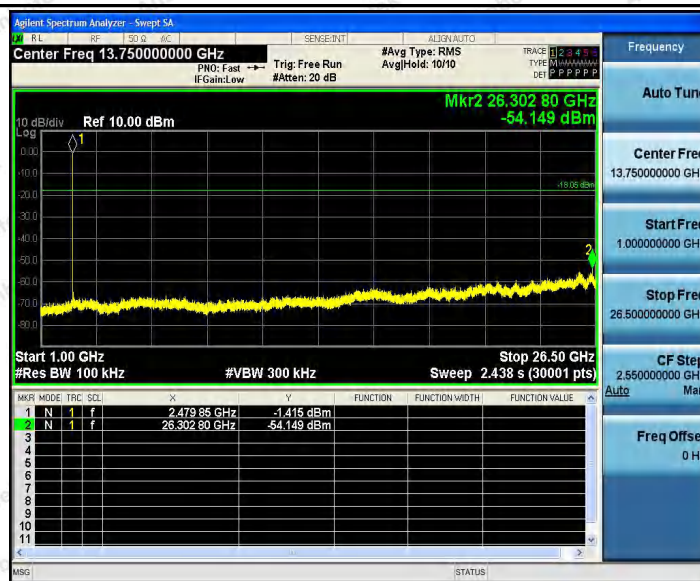
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotech.com



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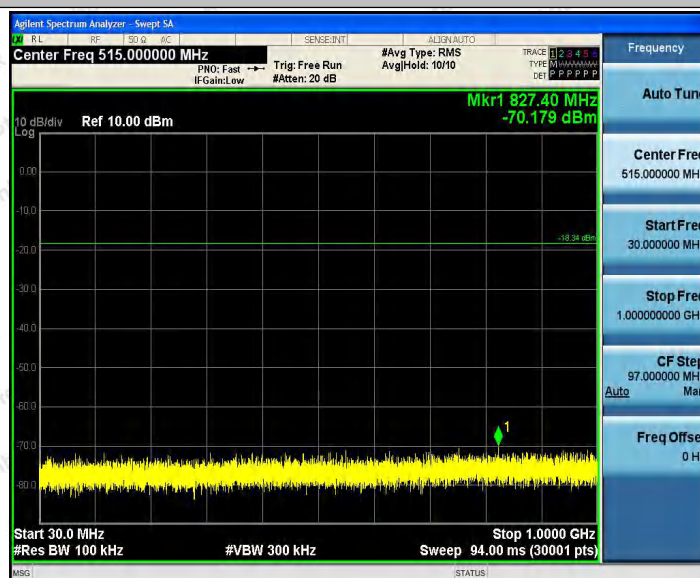
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3DH5 Ant1 2402 0~Reference



3DH5 Ant1 2402 30~1000



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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



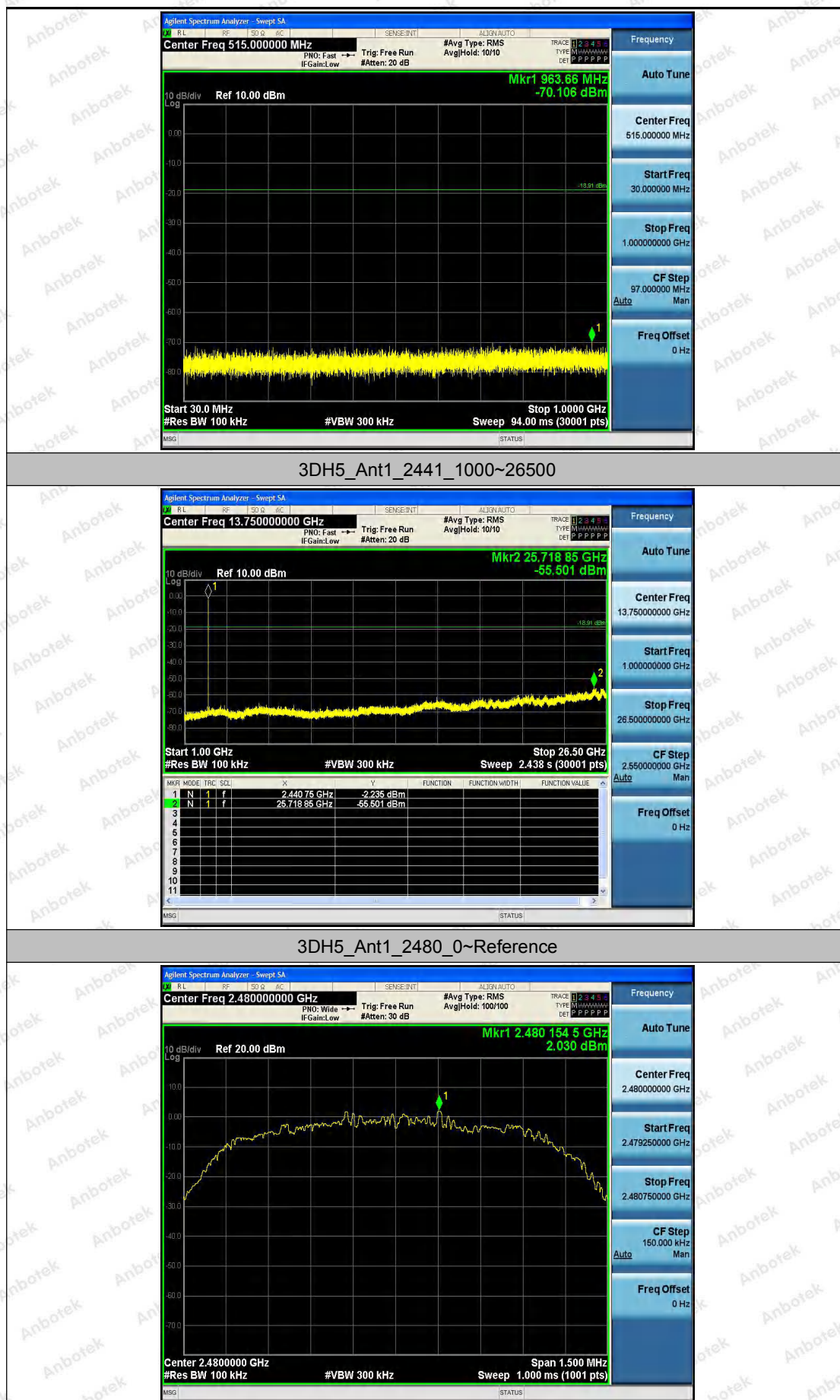
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400-003-0500
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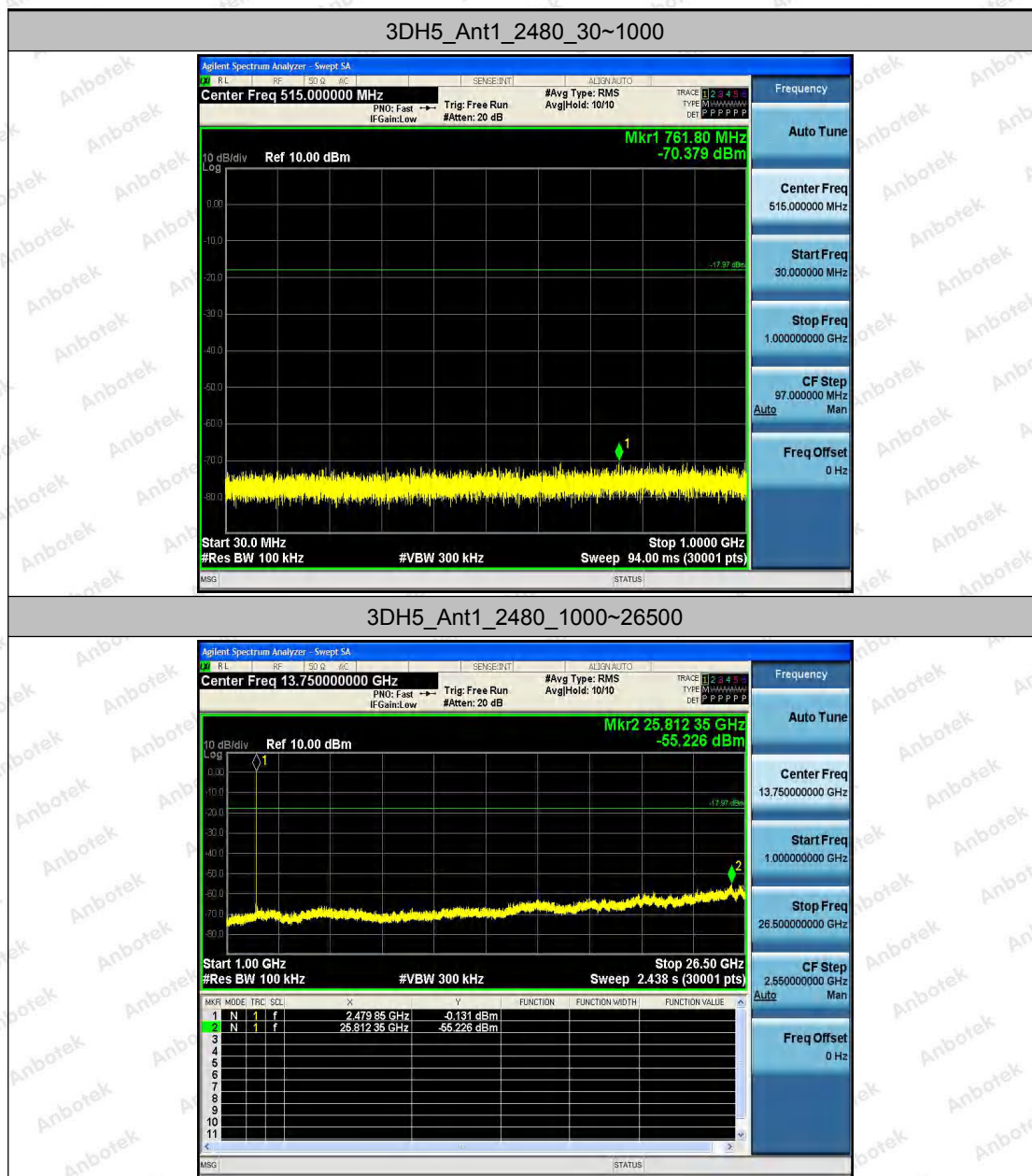


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Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	0.765 3	76.53	1.16	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS

Test Graphs

