

Appendix Test Data

Report No.:	18220WC20139301	Test Sample No.:	1-2-2
Start Test Date:	2022.6.30	Finish Test Date:	2022.7.7
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	22.6°C	Relative Humidity:	54.2 %
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	0.939	2401.538	2402.477	---	PASS
		2441	0.948	2440.538	2441.486	---	PASS
		2480	0.948	2479.535	2480.483	---	PASS
2DH5	Ant1	2402	1.272	2401.361	2402.633	---	PASS
		2441	1.314	2440.337	2441.651	---	PASS
		2480	1.323	2479.334	2480.657	---	PASS
3DH5	Ant1	2402	1.305	2401.346	2402.651	---	PASS
		2441	1.311	2440.343	2441.654	---	PASS
		2480	1.272	2479.352	2480.624	---	PASS

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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3DH5_Ant1_2480



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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	0.88489	2401.55 8	2402.443	---	PASS
		2441	0.89402	2440.55 2	2441.446	---	PASS
		2480	0.89219	2479.55 5	2480.447	---	PASS
2DH5	Ant1	2402	1.1871	2401.40 4	2402.591	---	PASS
		2441	1.1990	2440.39 9	2441.598	---	PASS
		2480	1.1999	2479.39 9	2480.599	---	PASS
3DH5	Ant1	2402	1.2102	2401.38 3	2402.594	---	PASS
		2441	1.2143	2440.38 3	2441.597	---	PASS
		2480	1.2077	2479.38 6	2480.593	---	PASS

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441

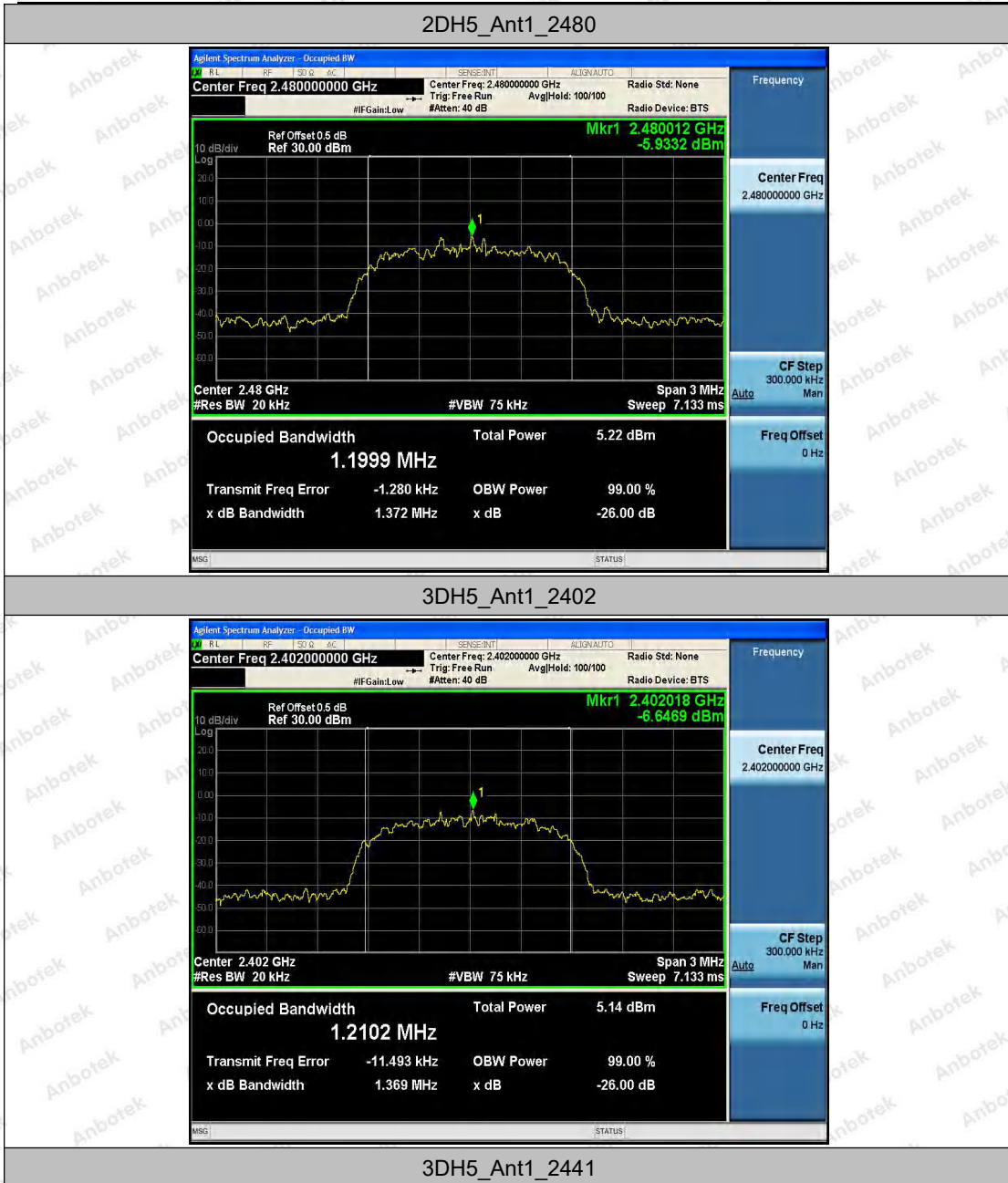


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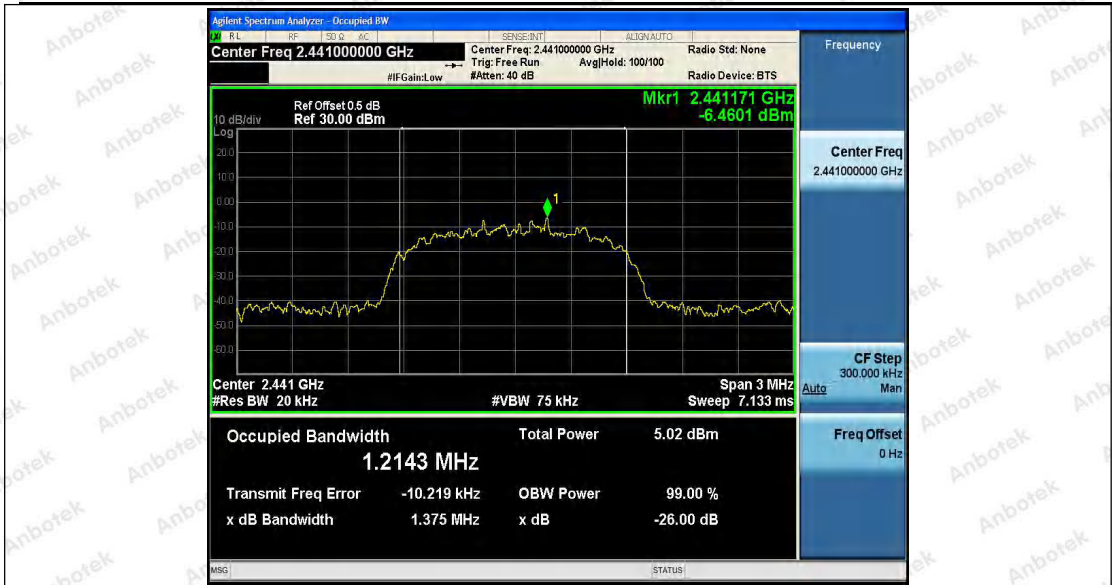


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3DH5_Ant1_2480



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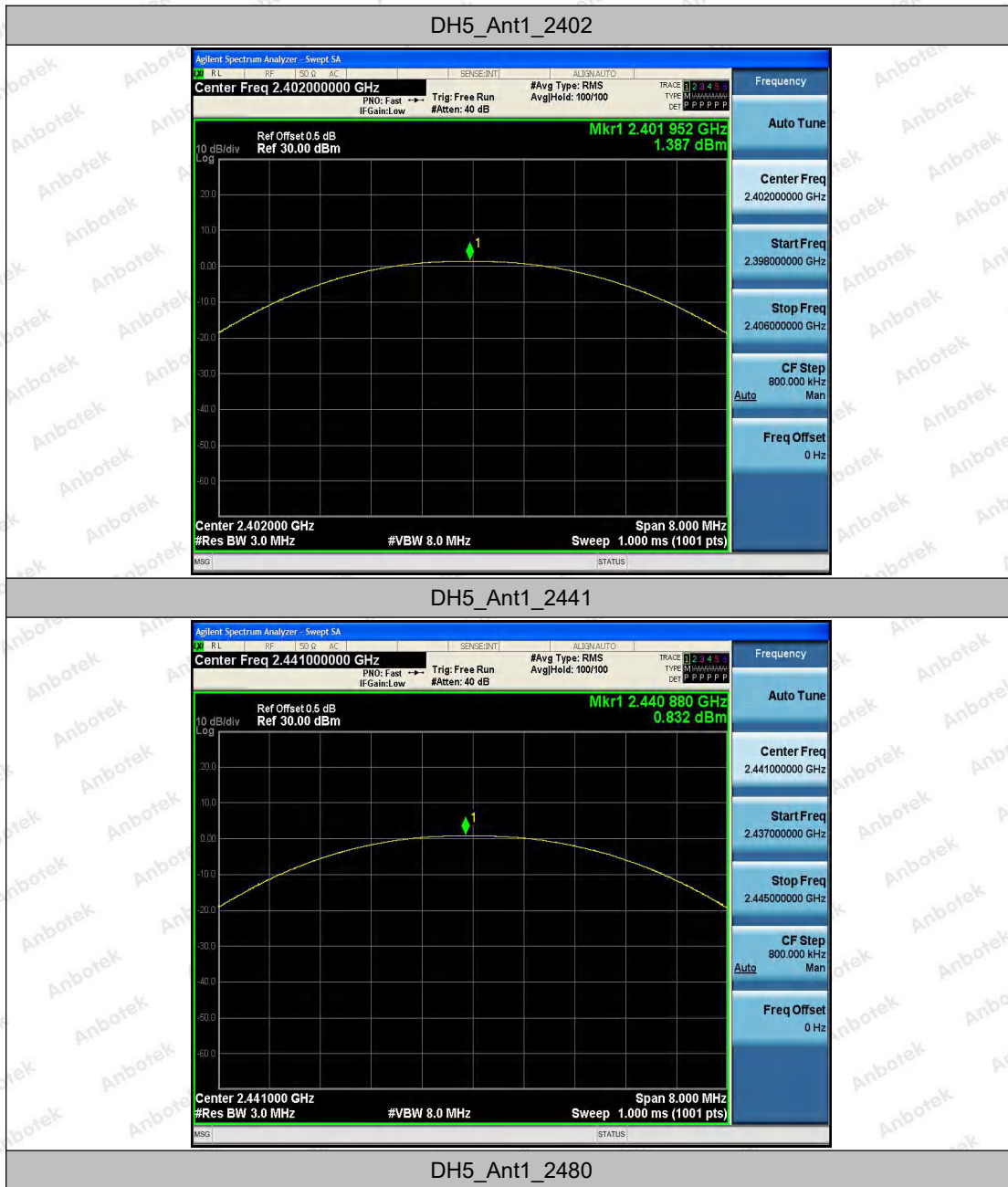
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.39	≤20.97	PASS
		2441	0.83	≤20.97	PASS
		2480	0.69	≤20.97	PASS
2DH5	Ant1	2402	0.59	≤20.97	PASS
		2441	0.21	≤20.97	PASS
		2480	0.02	≤20.97	PASS
3DH5	Ant1	2402	0.67	≤20.97	PASS
		2441	0.19	≤20.97	PASS
		2480	0.09	≤20.97	PASS

Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441

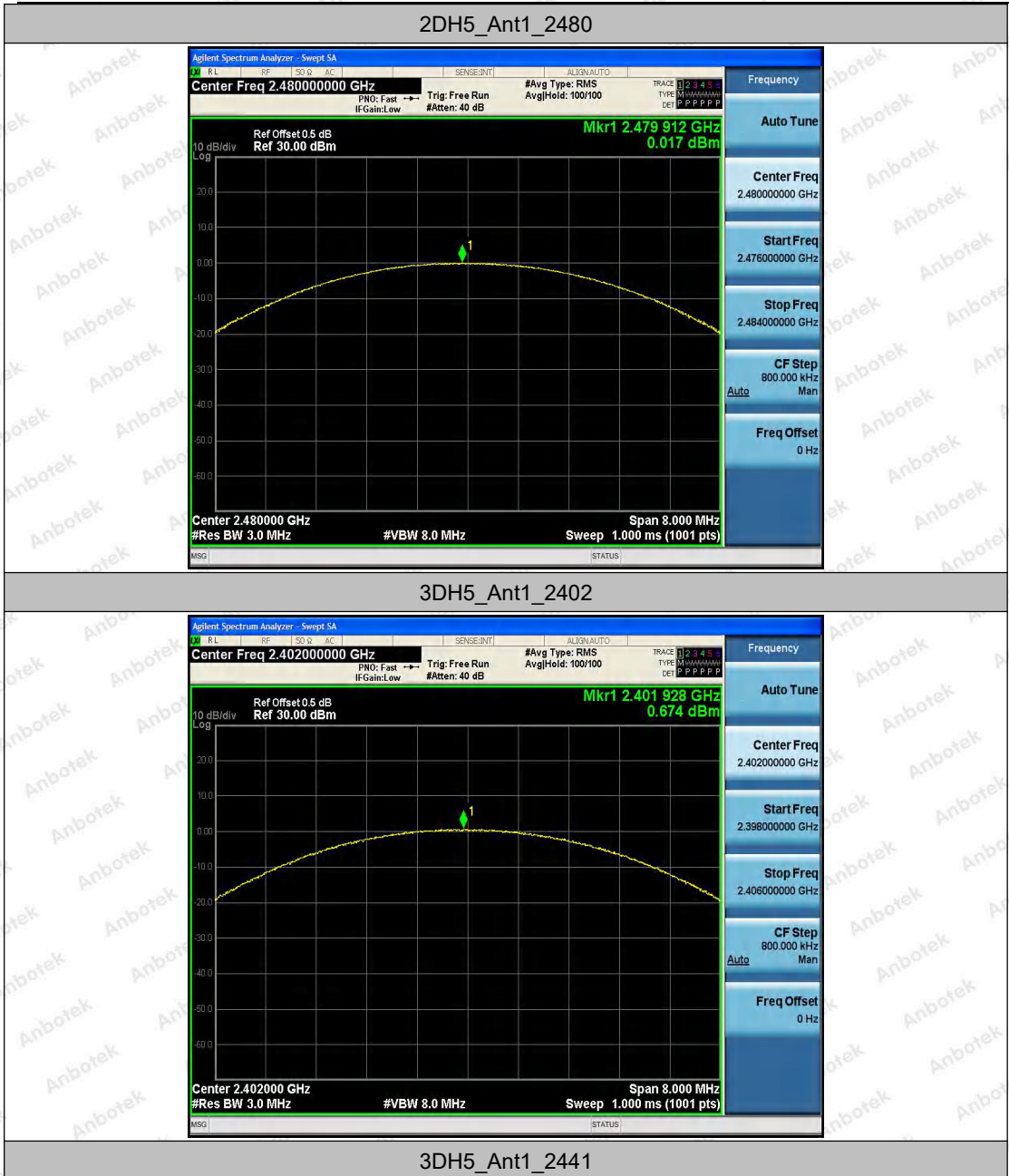


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3DH5_Ant1_2480



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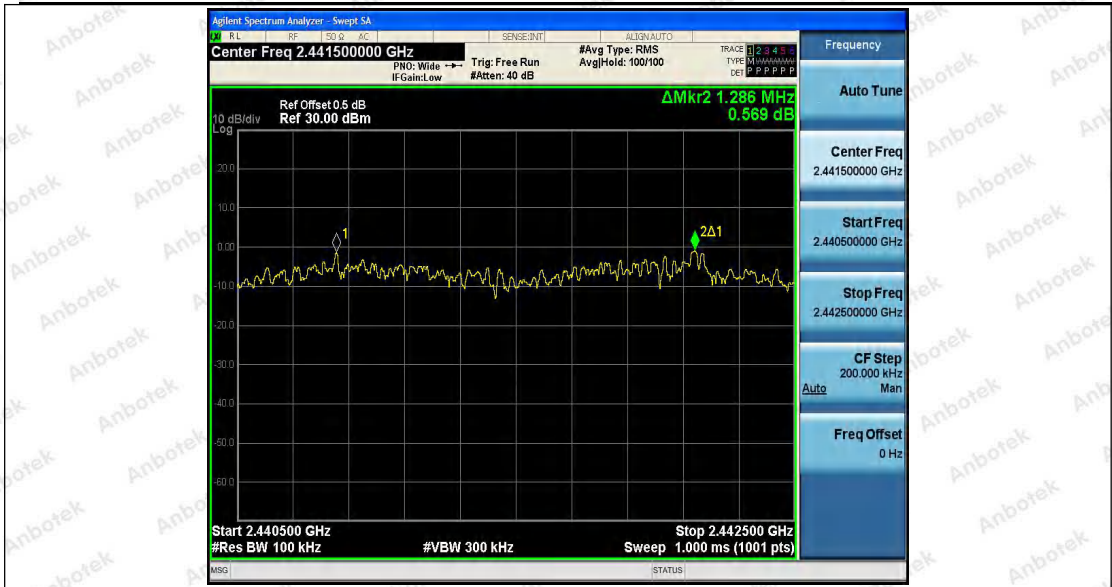
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.126	≥0.948	PASS
2DH5	Ant1	Hop	0.982	≥0.882	PASS
3DH5	Ant1	Hop	1.286	≥0.874	PASS

Test Graphs





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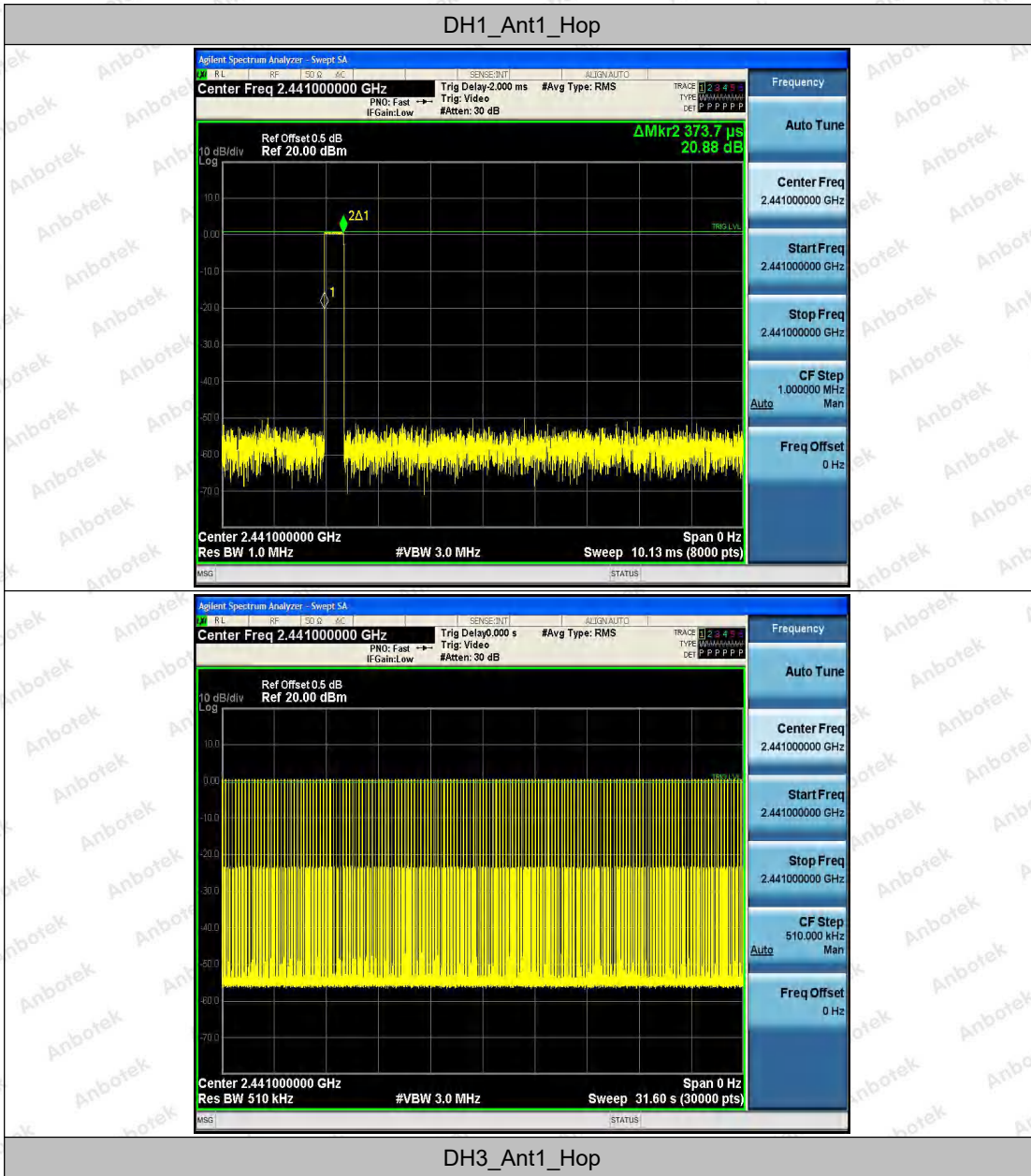
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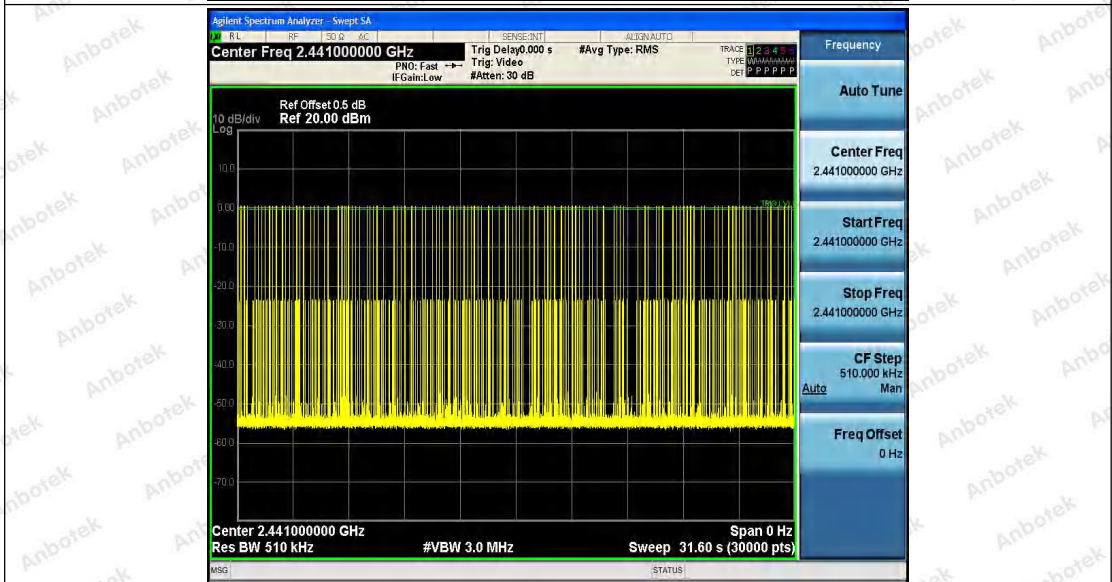
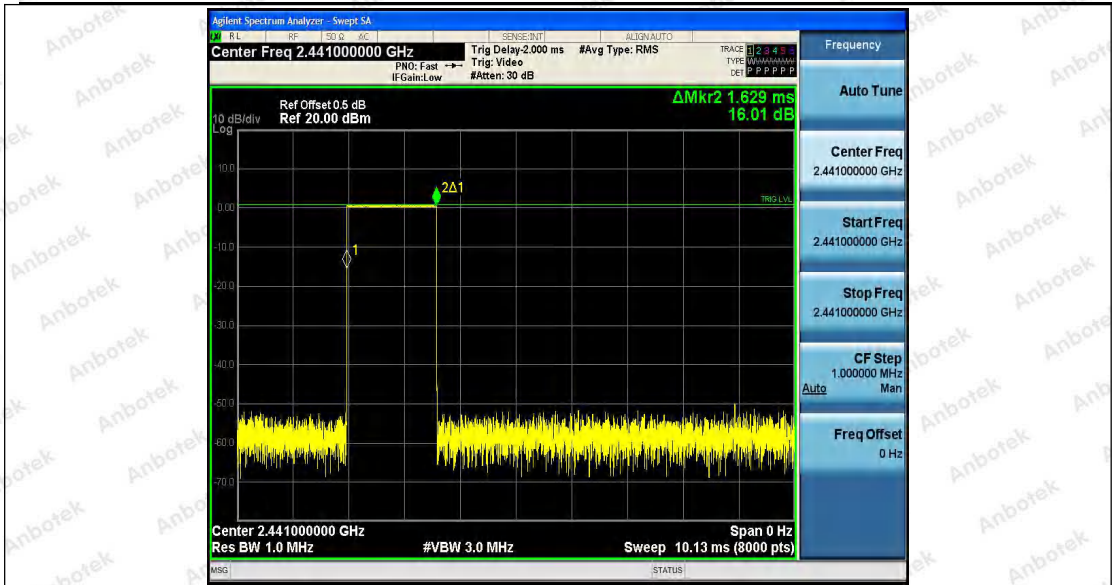
Appendix E: Time of occupancy

Test Result

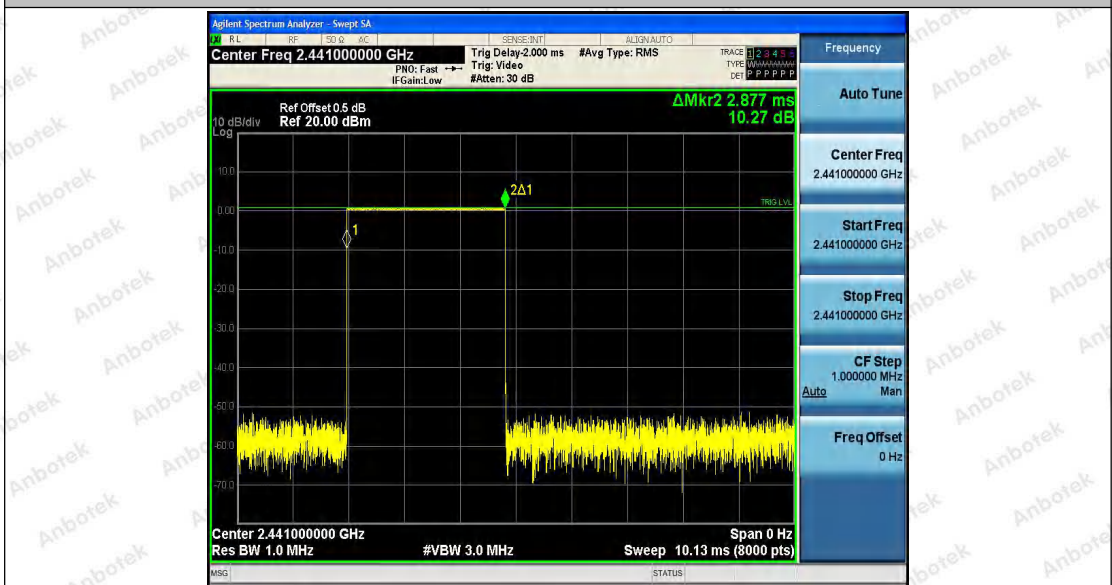
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	313	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	159	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.88	98	0.282	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	159	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.88	102	0.294	≤0.4	PASS
3DH1	Ant1	Hop	0.38	312	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
3DH5	Ant1	Hop	2.88	108	0.311	≤0.4	PASS

Test Graphs





DH5_Ant1_Hop

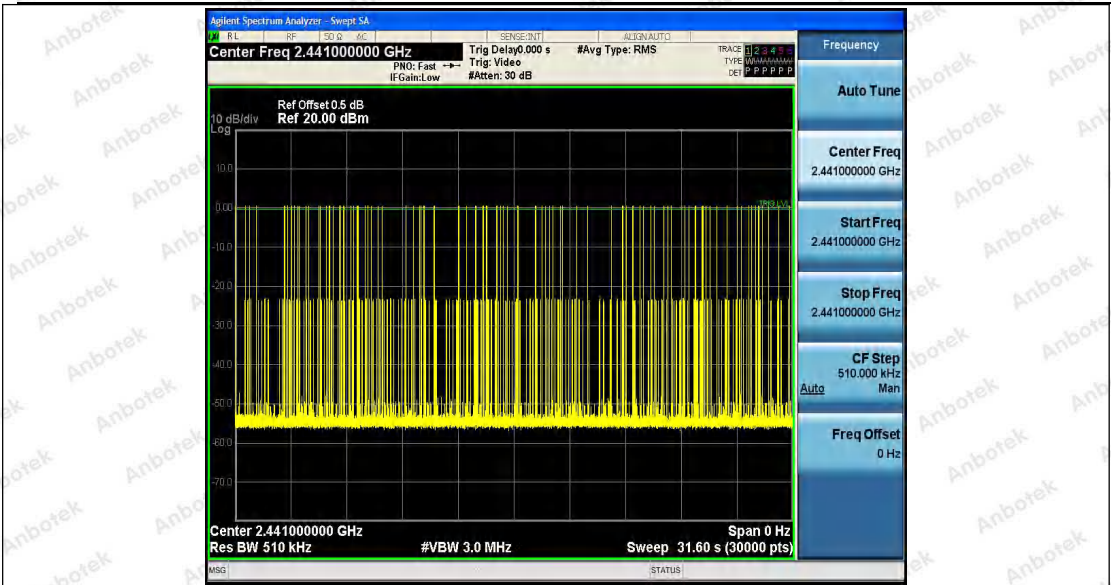


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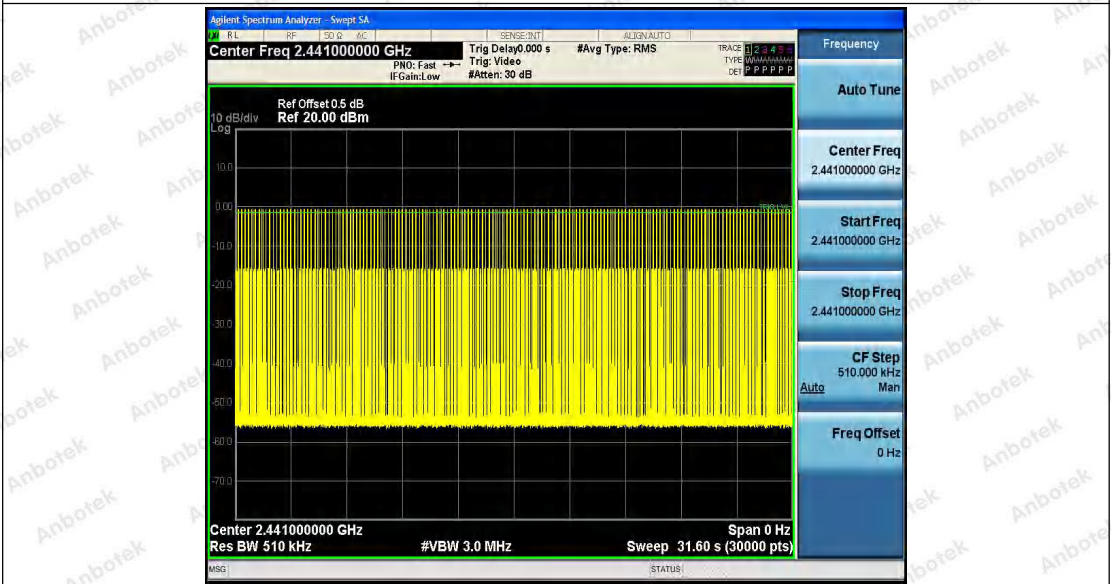
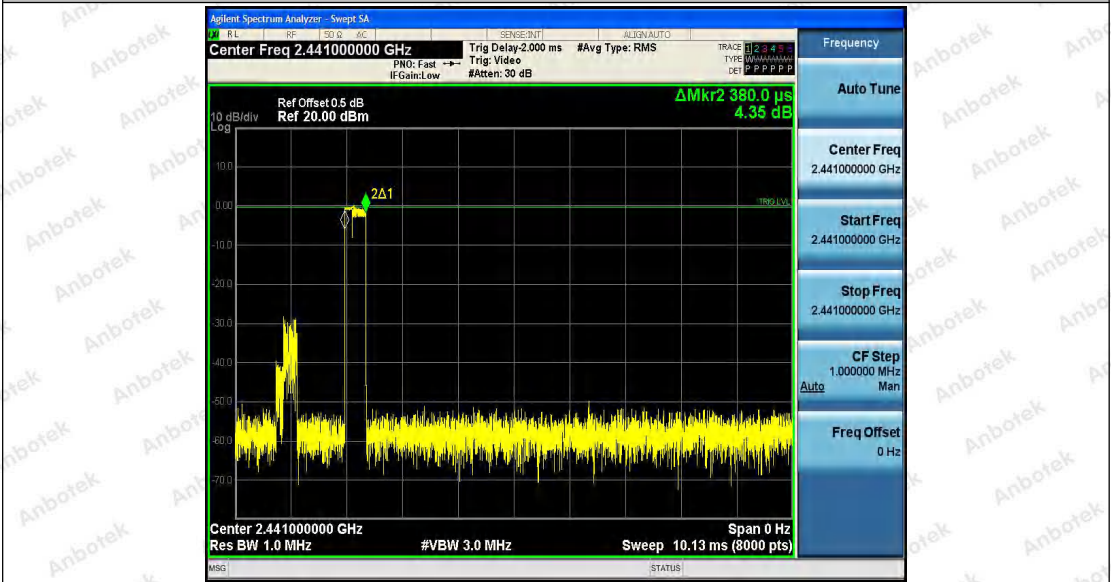
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2DH1_Ant1_Hop



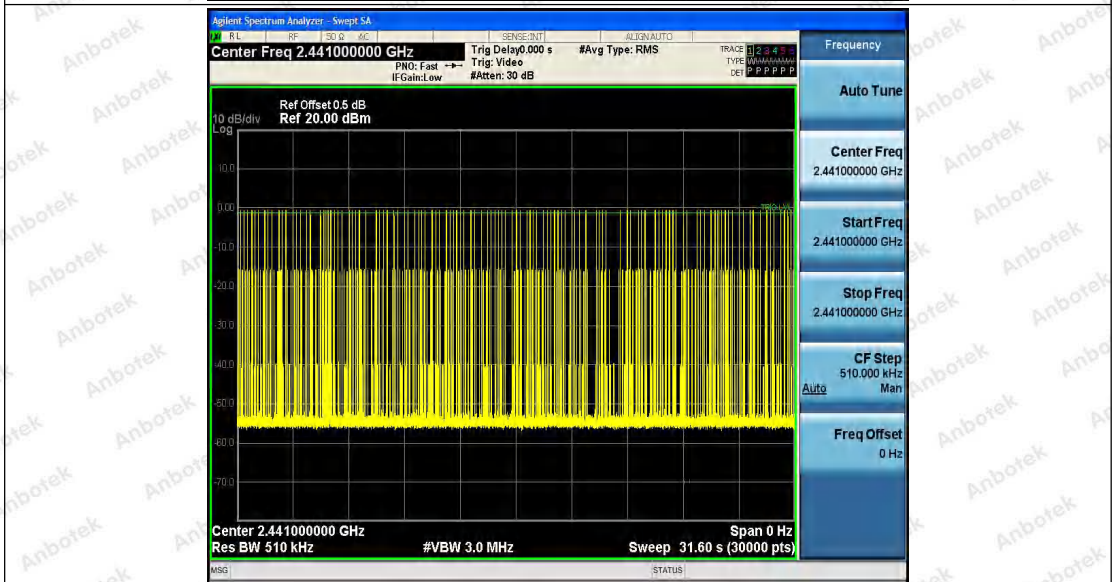
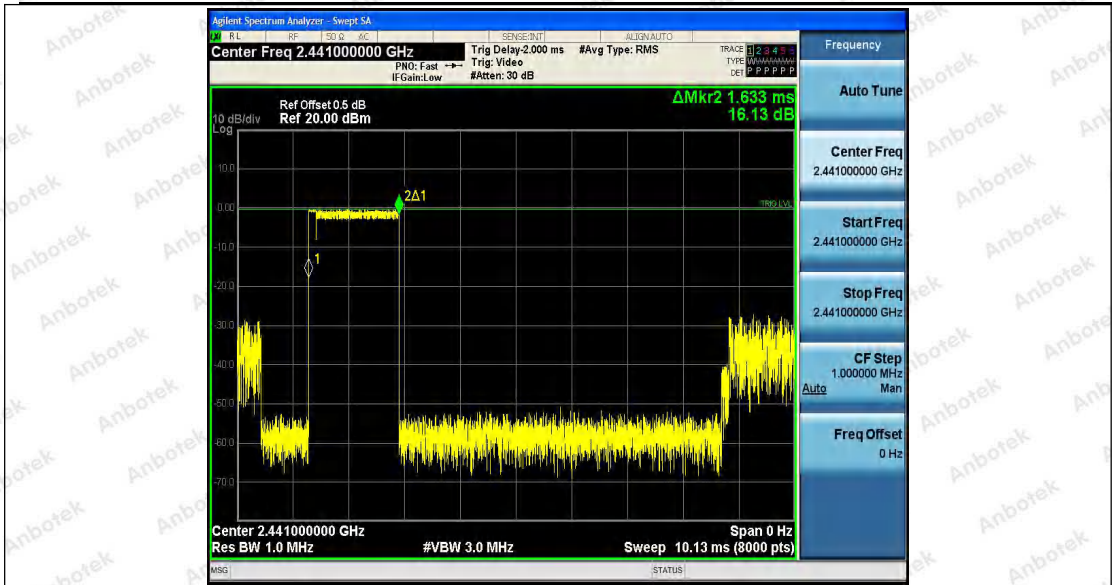
2DH3_Ant1_Hop

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2DH5_Ant1_Hop

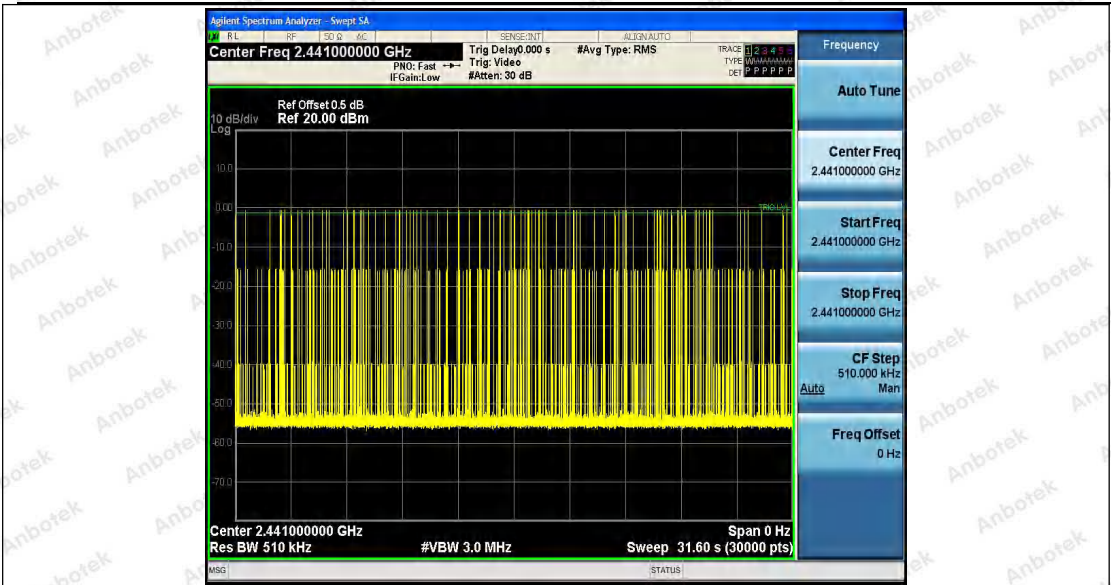


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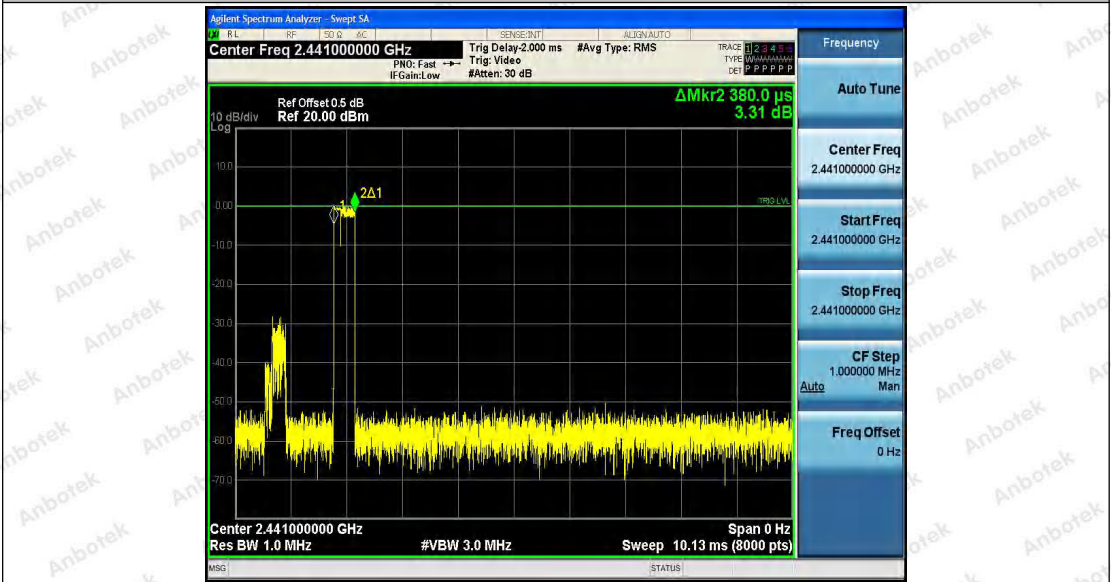
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3DH1_Ant1_Hop



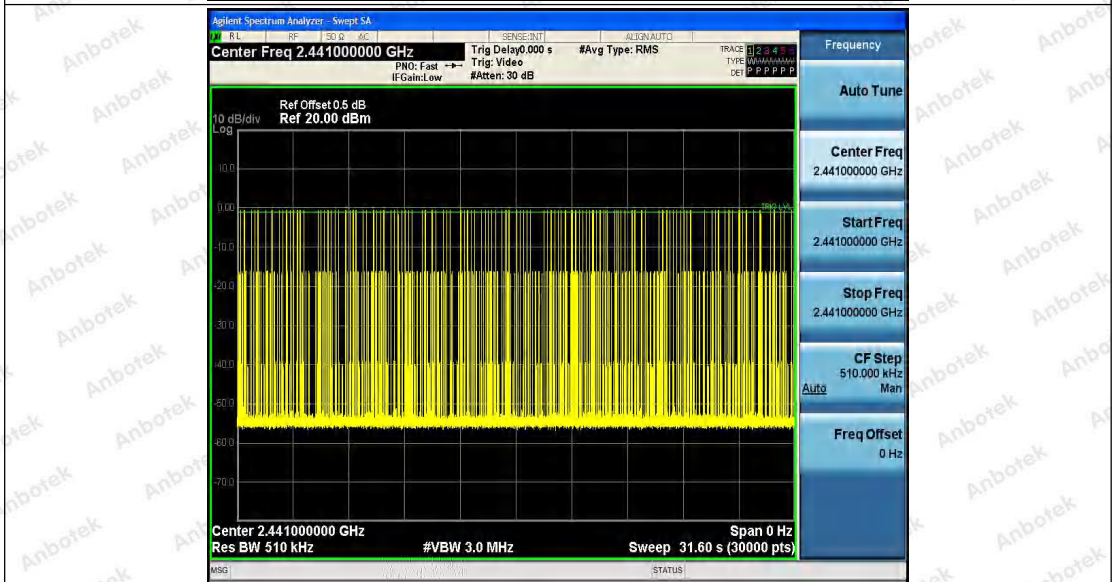
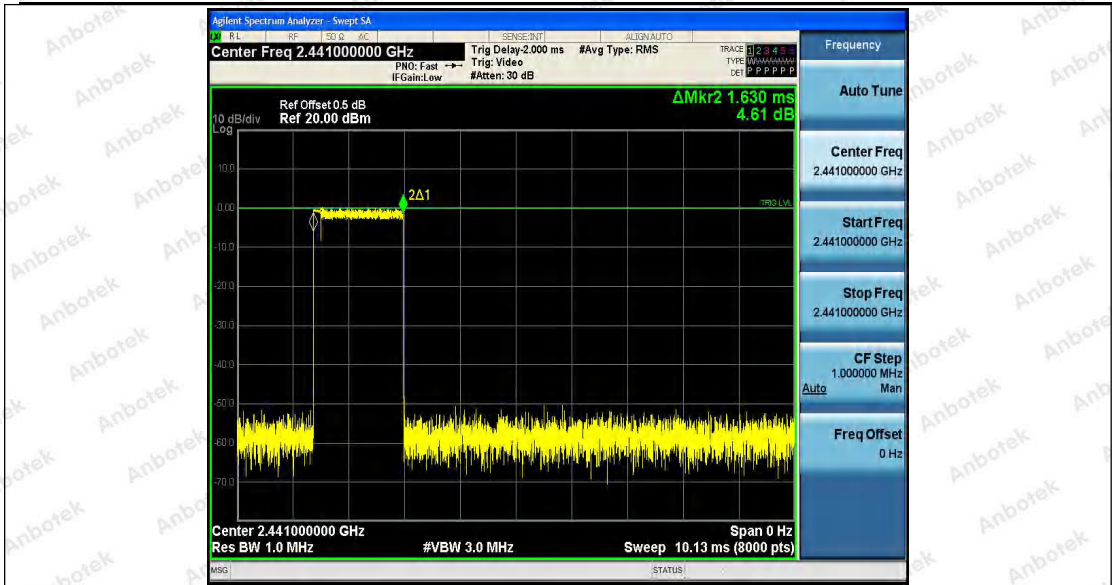
3DH3_Ant1_Hop

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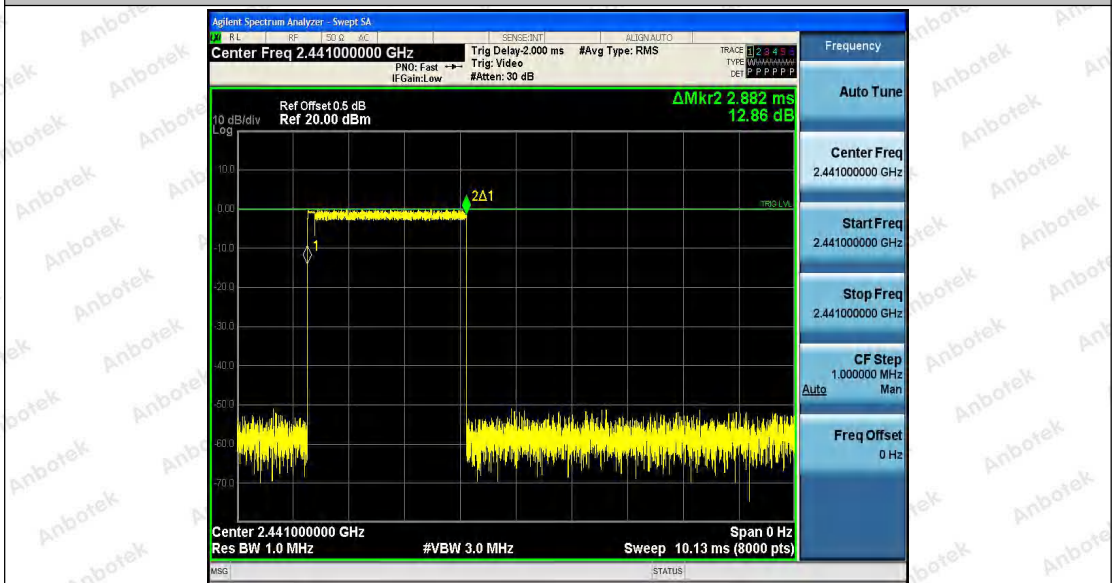
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3DH5_Ant1_Hop

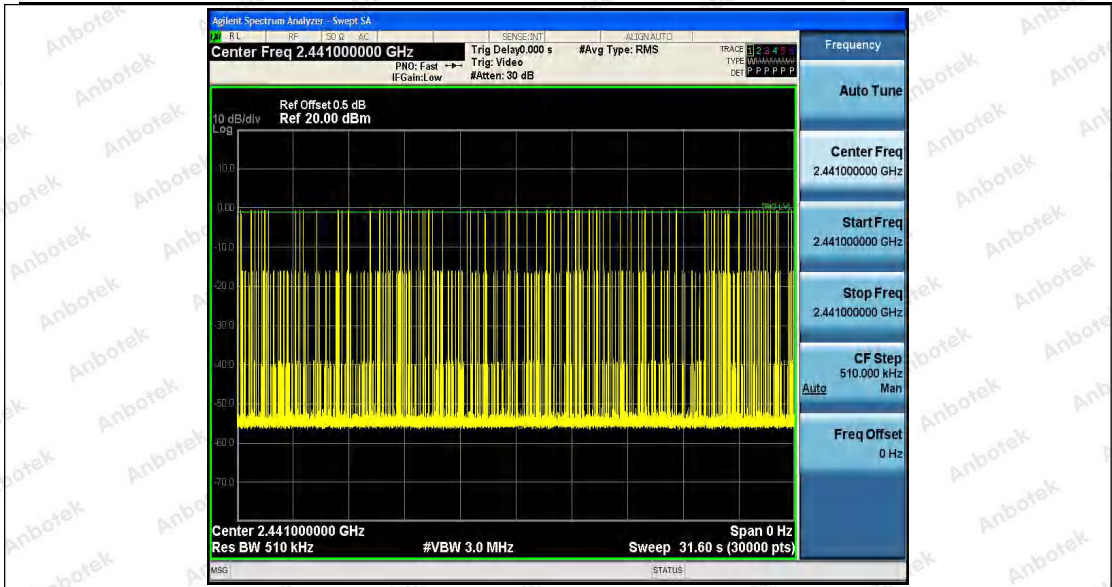


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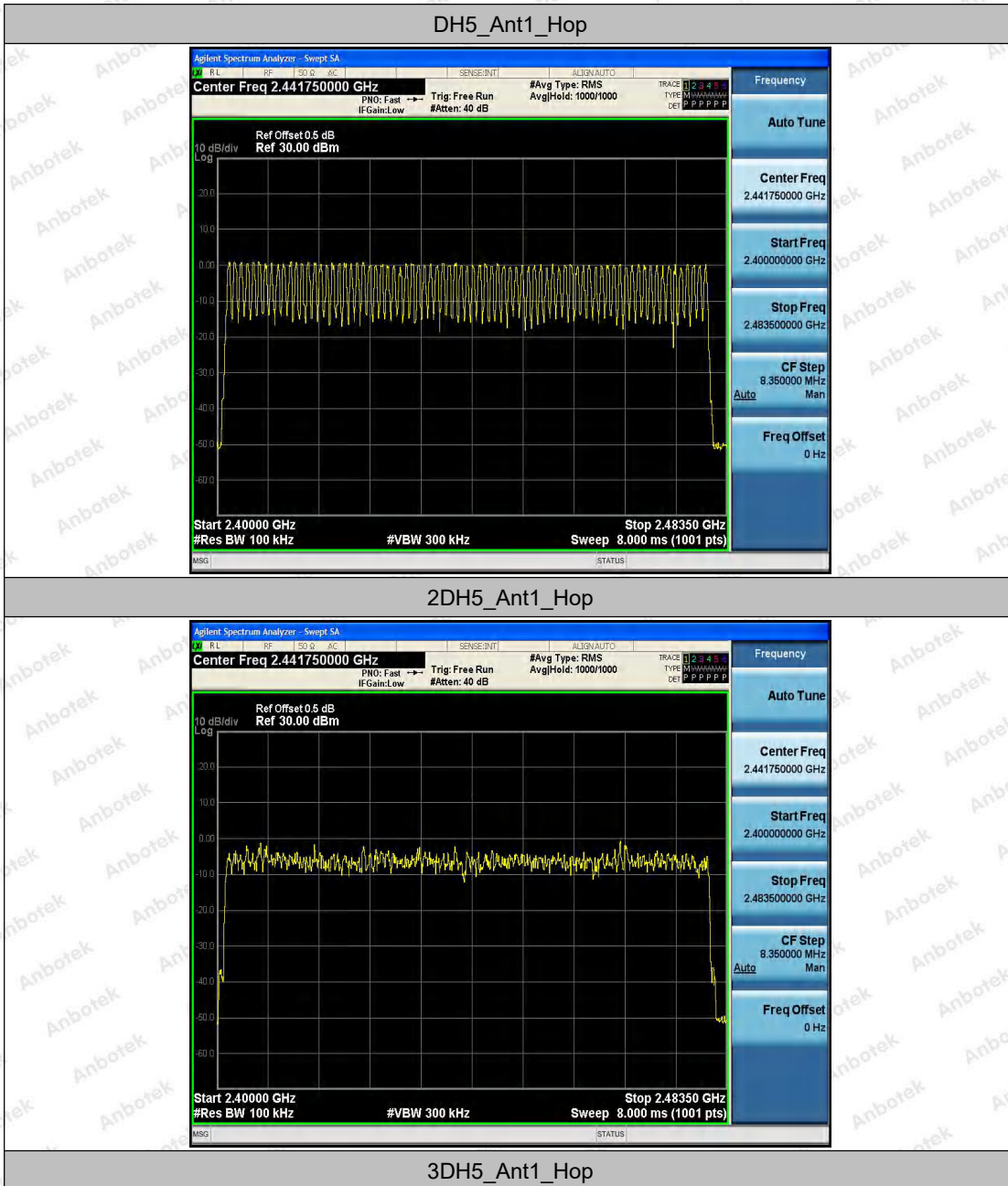
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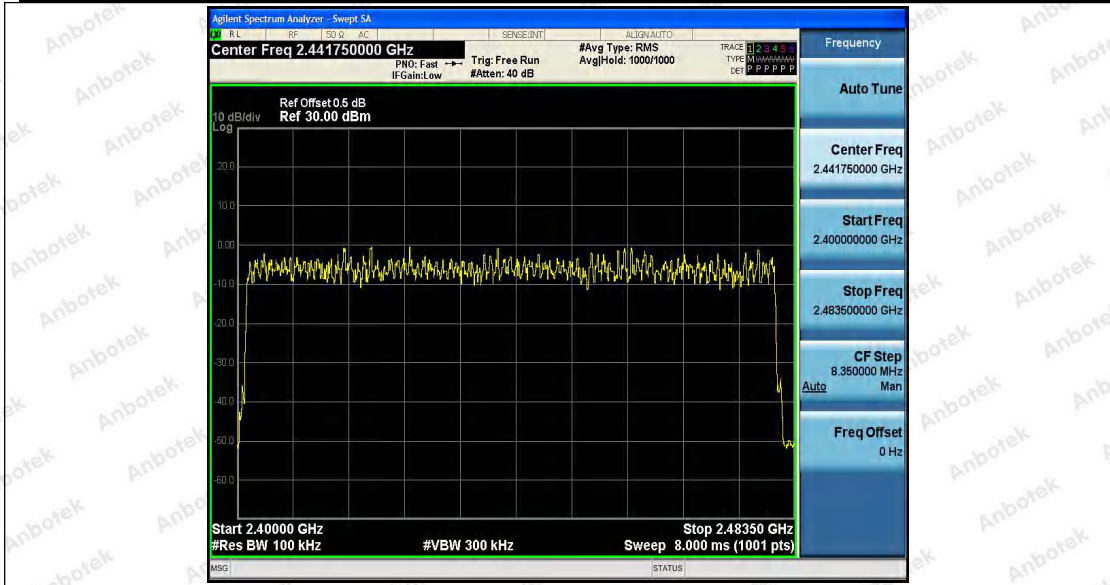
Appendix F: Number of hopping channels

Test Result

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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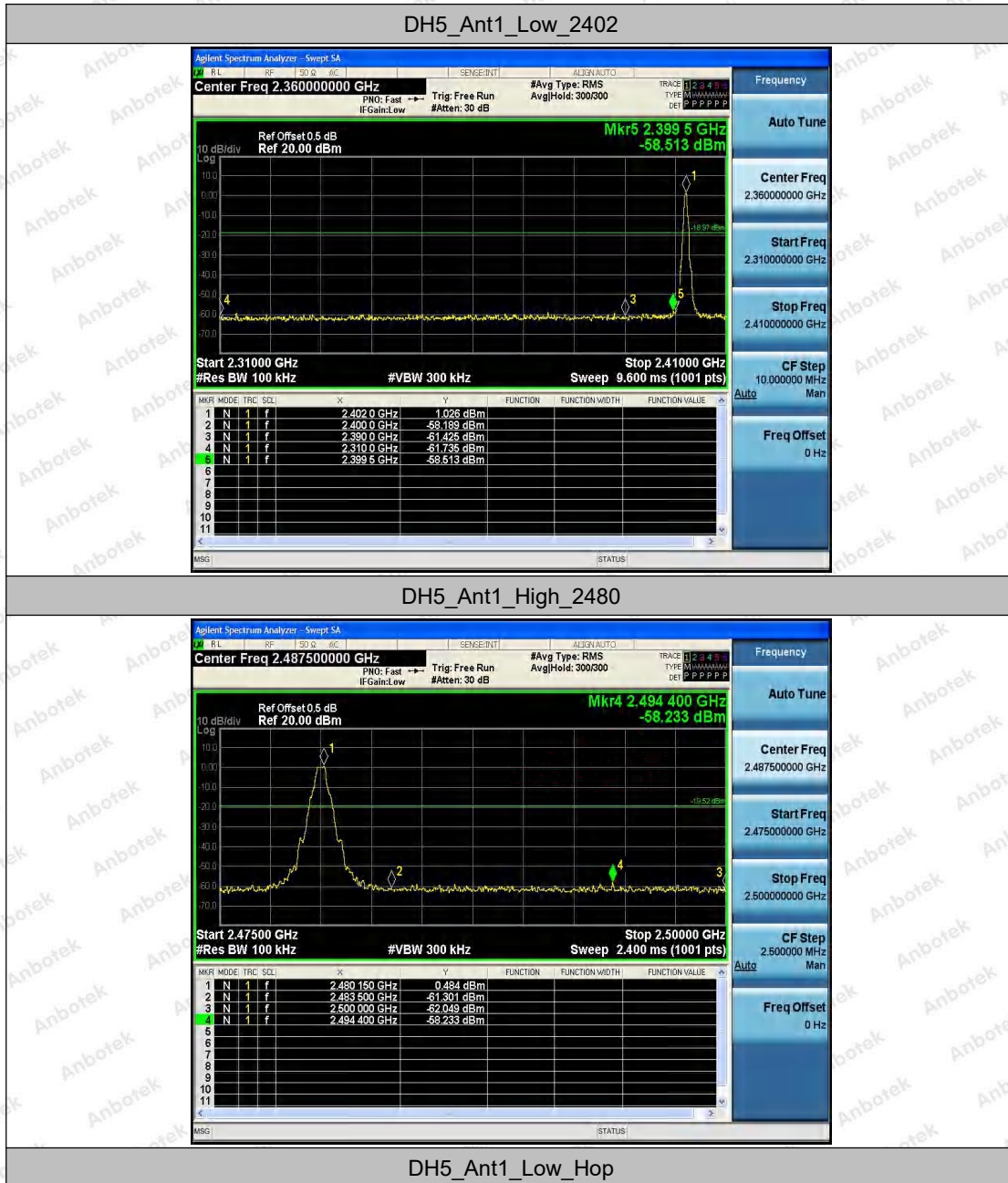
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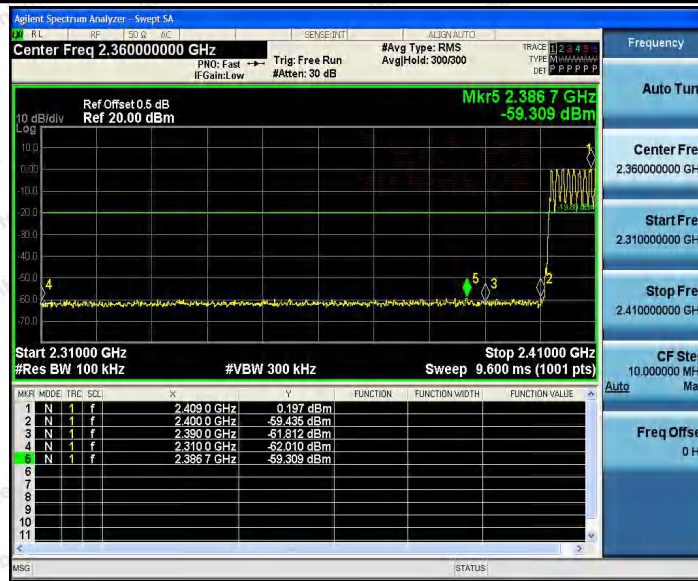
Appendix G: Band edge measurements

Test Result

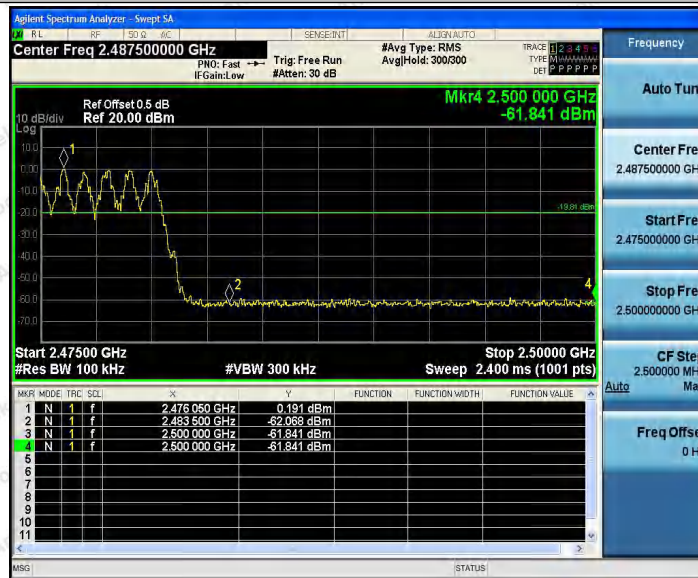
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.03	-58.51	≤-18.97	PASS
		High	2480	0.48	-58.23	≤-19.52	PASS
		Low	Hop	0.20	-59.31	≤-19.8	PASS
		High	Hop	0.19	-61.84	≤-19.81	PASS
2DH5	Ant1	Low	2402	-0.38	-55.63	≤-20.38	PASS
		High	2480	-0.80	-57.92	≤-20.8	PASS
		Low	Hop	-1.78	-58.91	≤-21.78	PASS
		High	Hop	-3.35	-60.93	≤-23.35	PASS
3DH5	Ant1	Low	2402	-0.27	-56.26	≤-20.27	PASS
		High	2480	-0.85	-59.17	≤-20.85	PASS
		Low	Hop	-1.96	-58.57	≤-21.96	PASS
		High	Hop	-0.74	-60.42	≤-20.74	PASS

Test Graphs

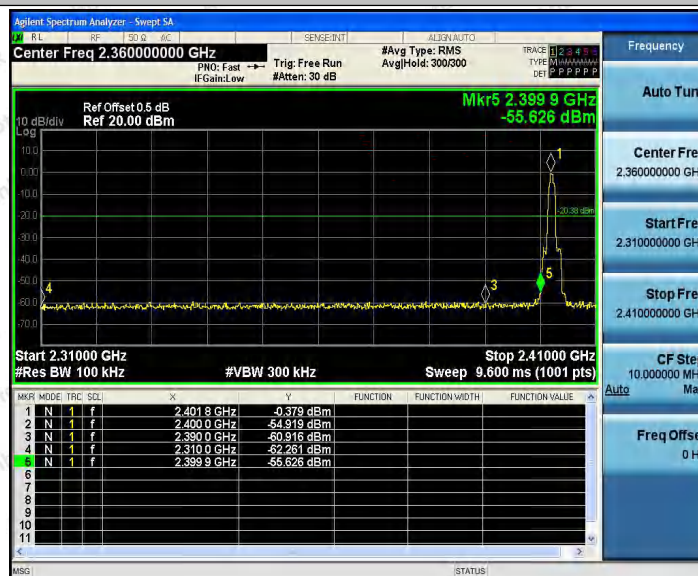




DH5_Ant1_High_Hop



2DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402

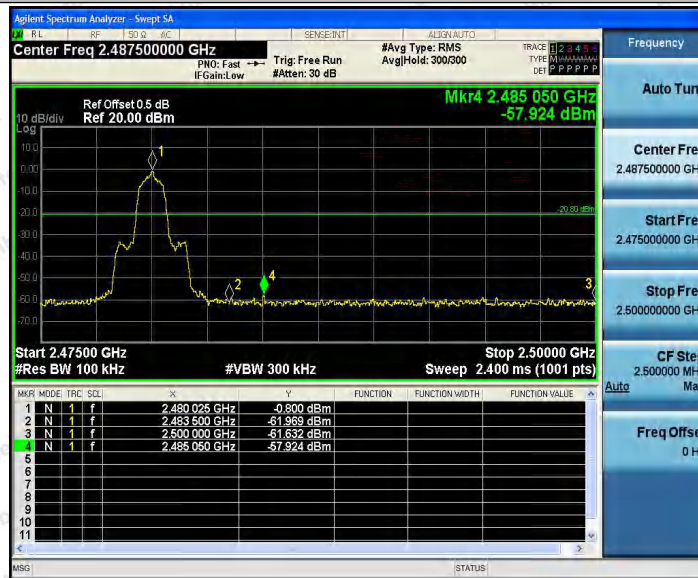
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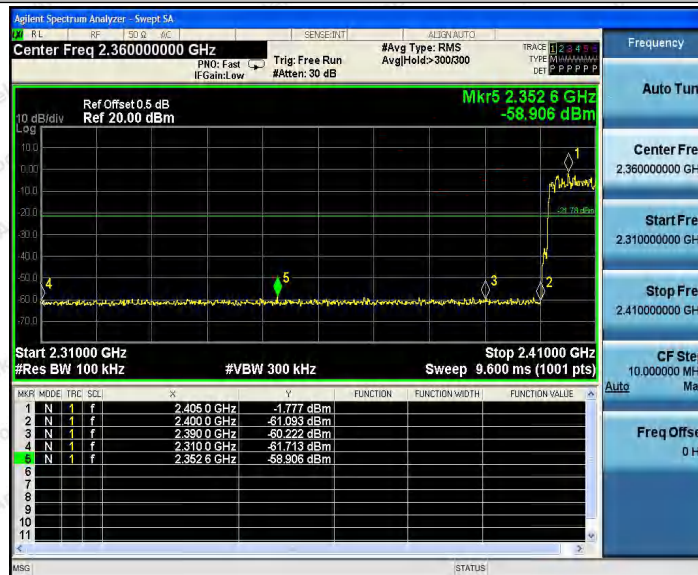
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



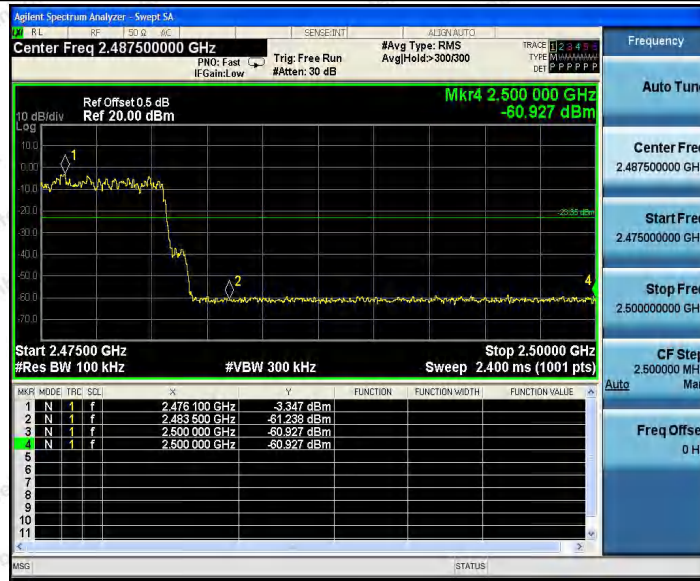
2DH5_Ant1_High_Hop

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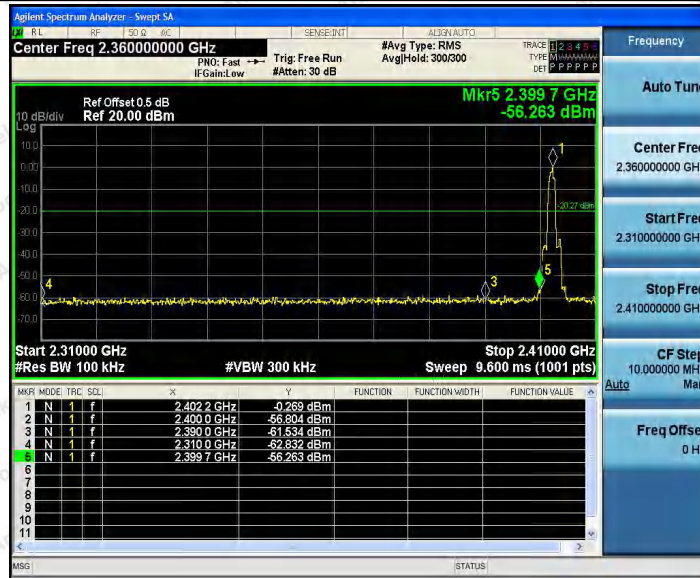
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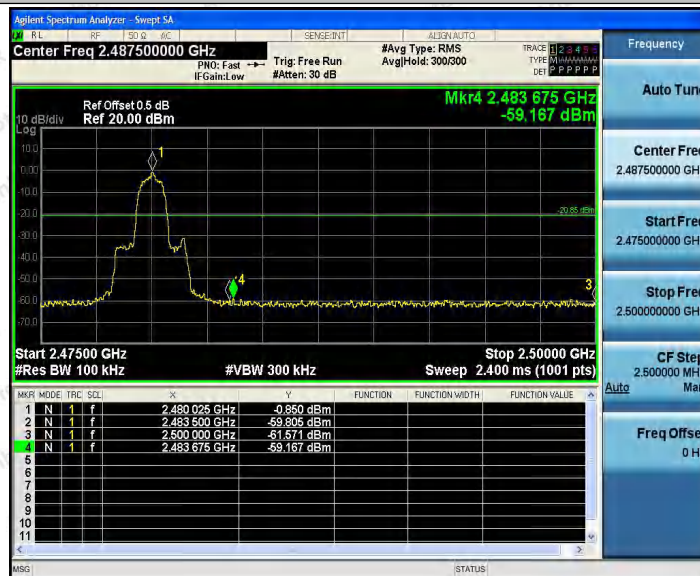
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

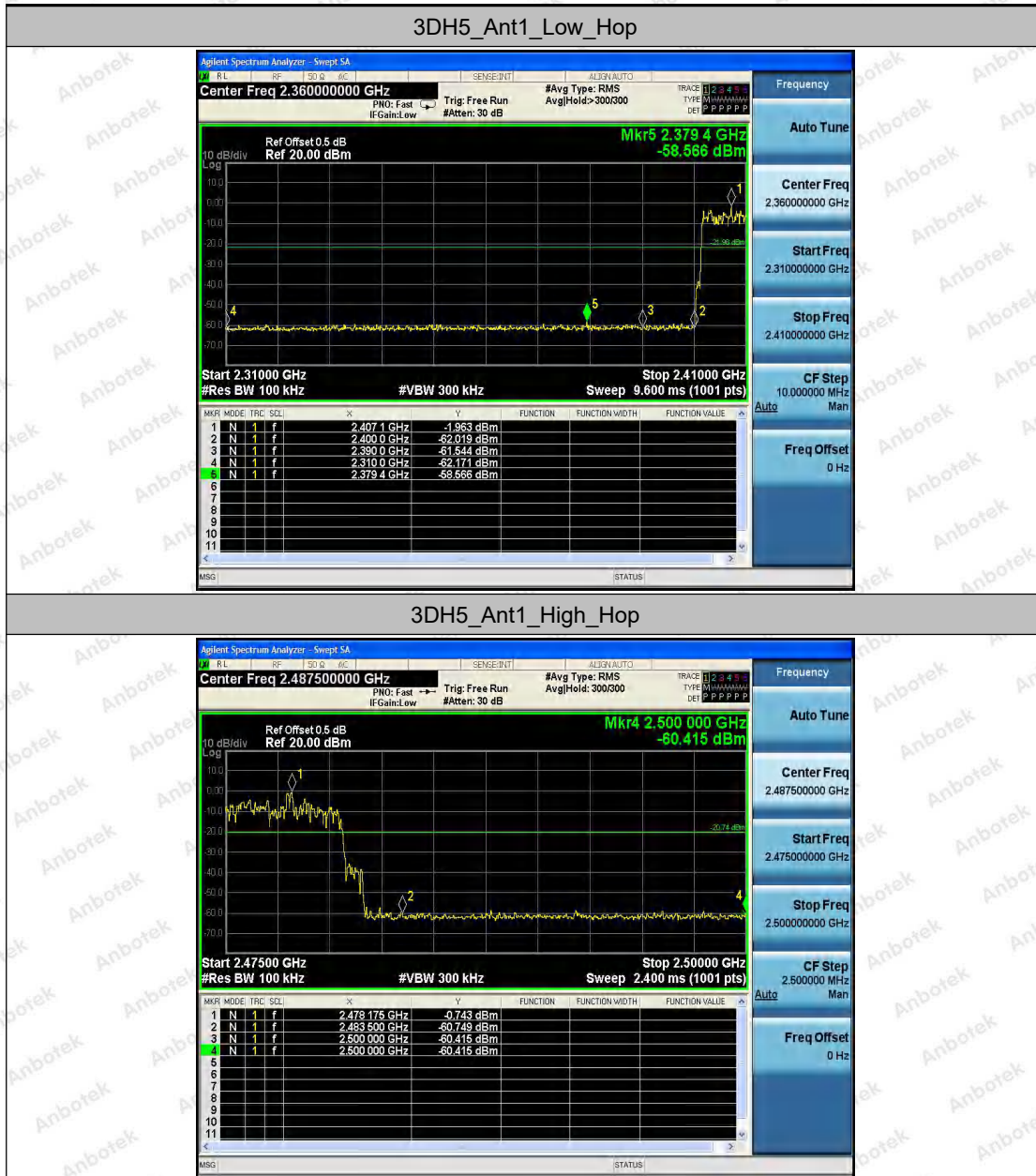


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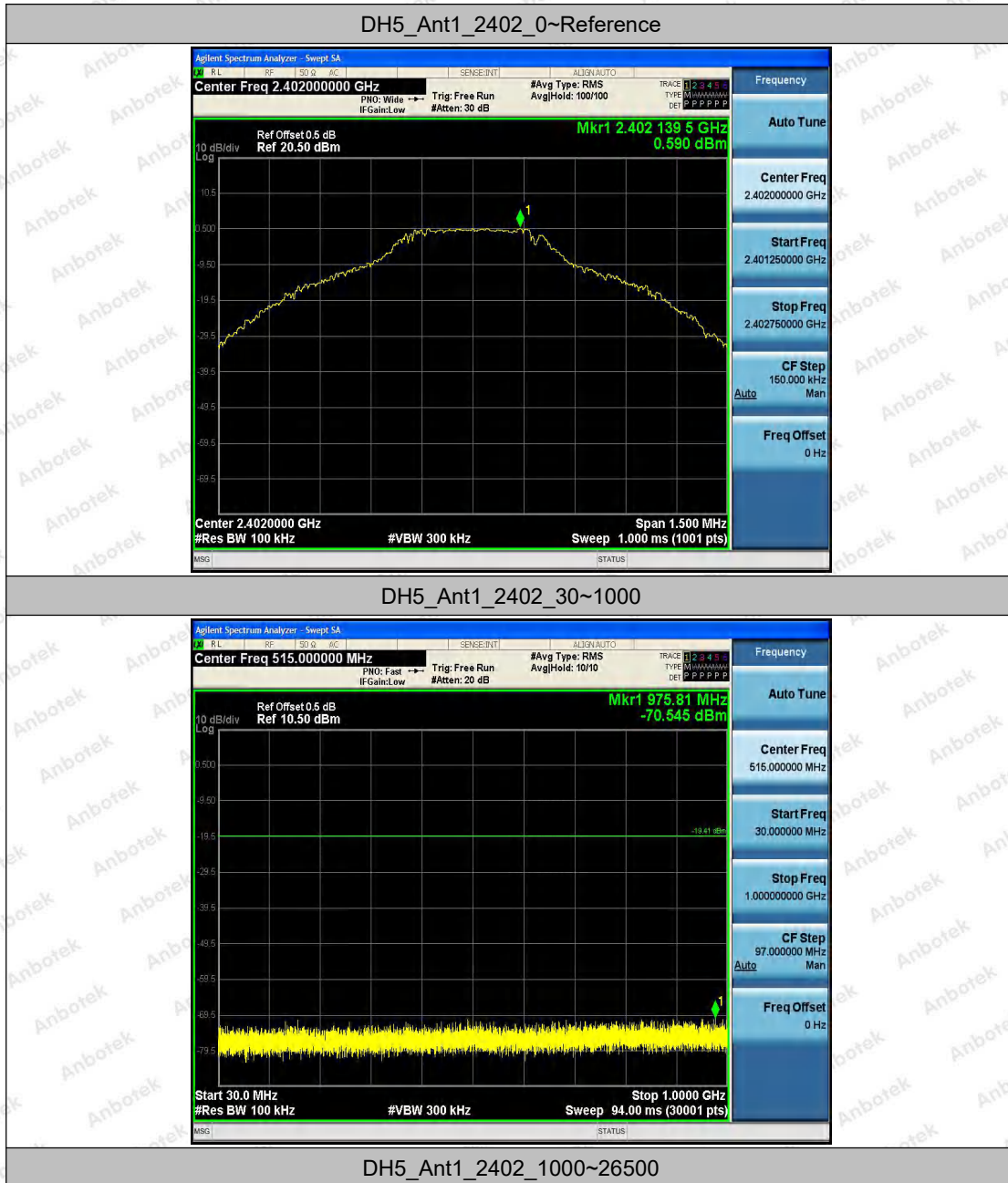
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Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.59	0.59	---	PASS
			30~1000	0.59	-70.55	≤-19.41	PASS
			1000~26500	0.59	-54.92	≤-19.41	PASS
		2441	Reference	0.04	0.04	---	PASS
			30~1000	0.04	-69.46	≤-19.96	PASS
			1000~26500	0.04	-54.92	≤-19.96	PASS
		2480	Reference	0.39	0.39	---	PASS
			30~1000	0.39	-69.48	≤-19.61	PASS
			1000~26500	0.39	-54.35	≤-19.61	PASS
2DH5	Ant1	2402	Reference	-0.46	-0.46	---	PASS
			30~1000	-0.46	-69.73	≤-20.46	PASS
			1000~26500	-0.46	-54.81	≤-20.46	PASS
		2441	Reference	-0.79	-0.79	---	PASS
			30~1000	-0.79	-67.31	≤-20.79	PASS
			1000~26500	-0.79	-55.13	≤-20.79	PASS
		2480	Reference	-1.29	-1.29	---	PASS
			30~1000	-1.29	-69.45	≤-21.29	PASS
			1000~26500	-1.29	-54.88	≤-21.29	PASS
3DH5	Ant1	2402	Reference	-0.38	-0.38	---	PASS
			30~1000	-0.38	-69.97	≤-20.38	PASS
			1000~26500	-0.38	-54.99	≤-20.38	PASS
		2441	Reference	-1.42	-1.42	---	PASS
			30~1000	-1.42	-69.52	≤-21.42	PASS
			1000~26500	-1.42	-54.44	≤-21.42	PASS
		2480	Reference	-0.89	-0.89	---	PASS
			30~1000	-0.89	-68.99	≤-20.89	PASS
			1000~26500	-0.89	-53.98	≤-20.89	PASS

Test Graphs

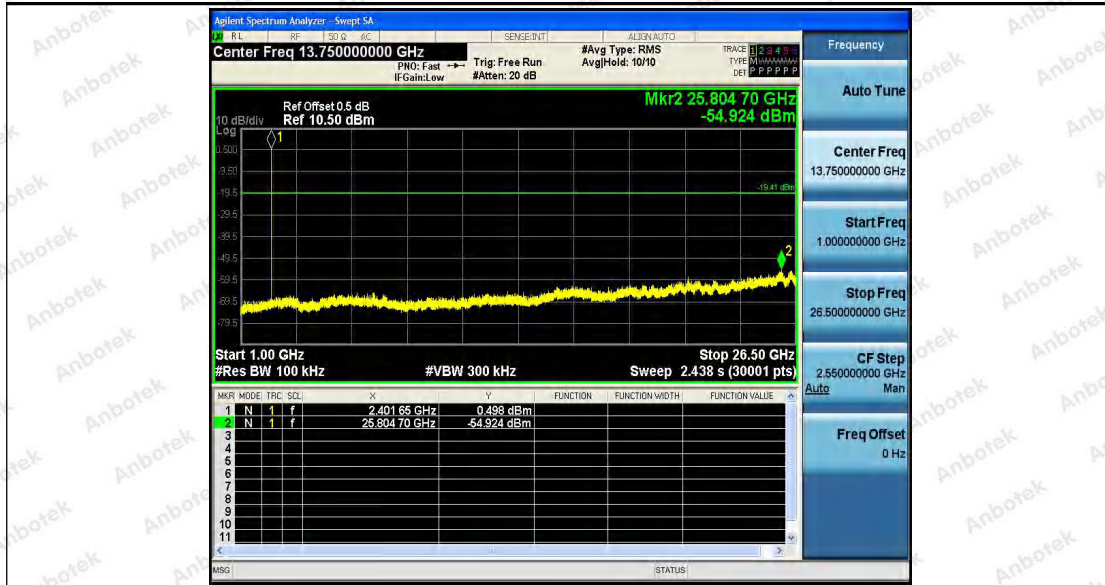


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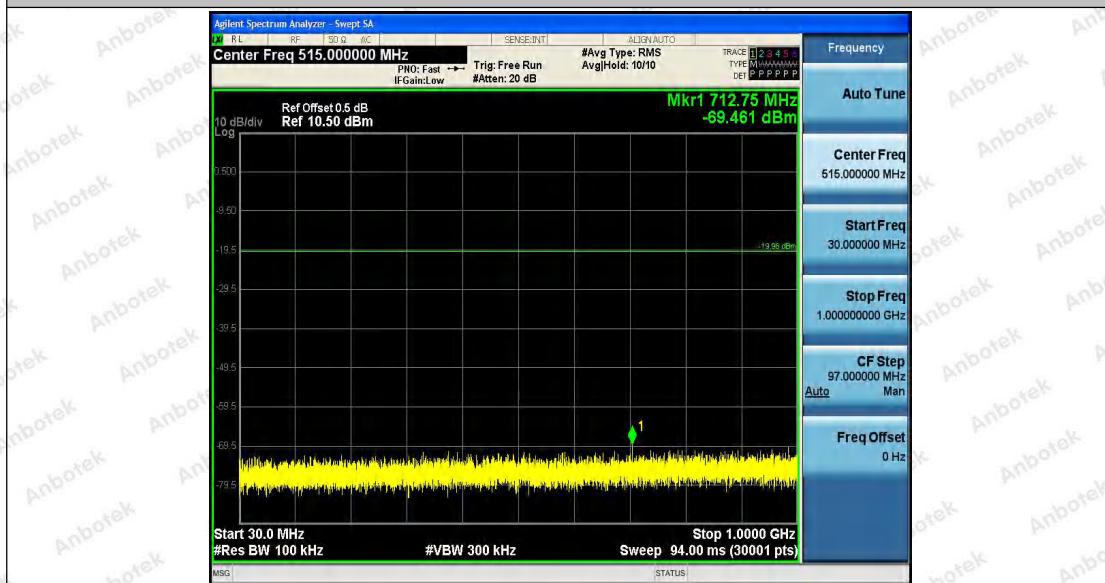
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

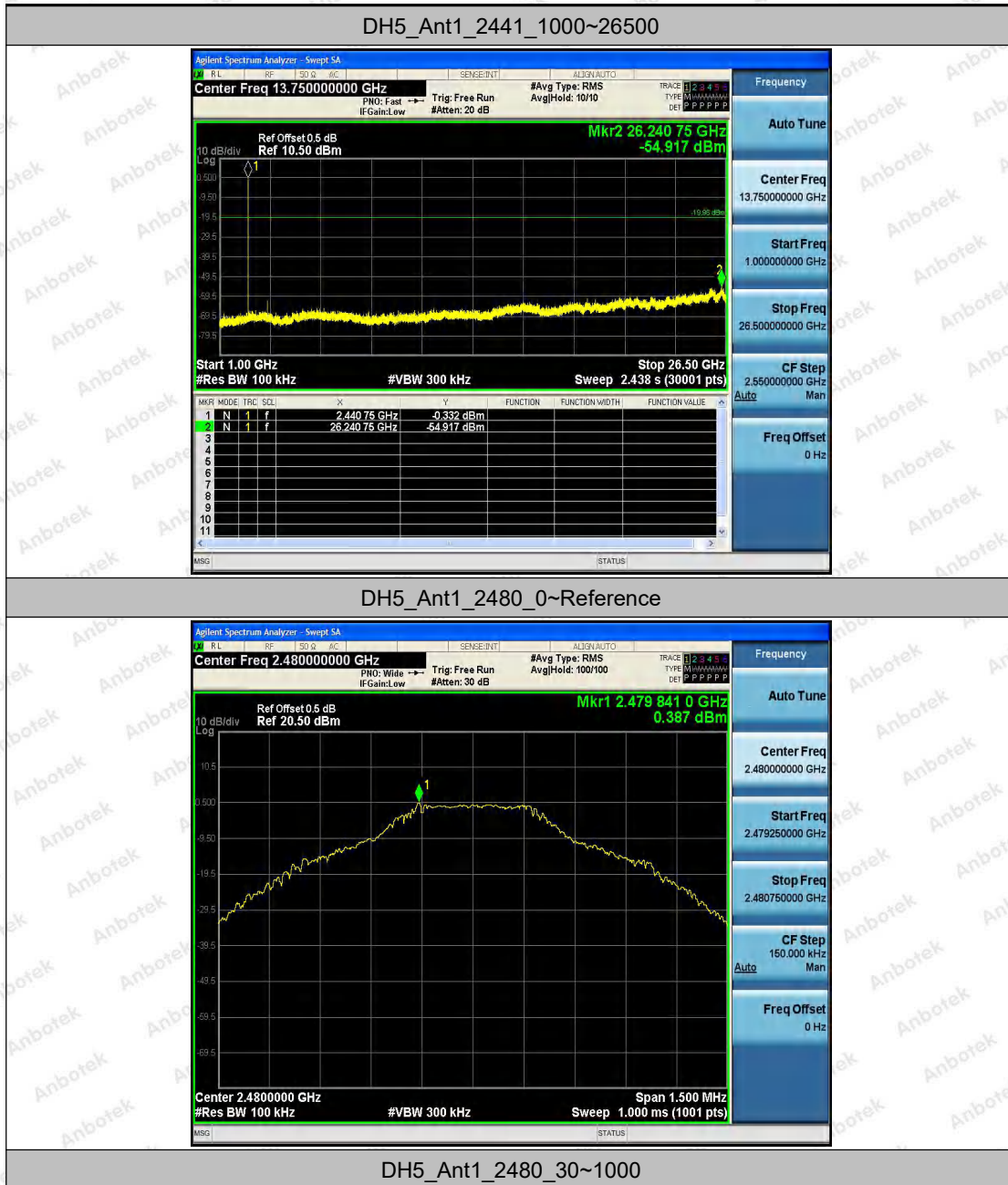


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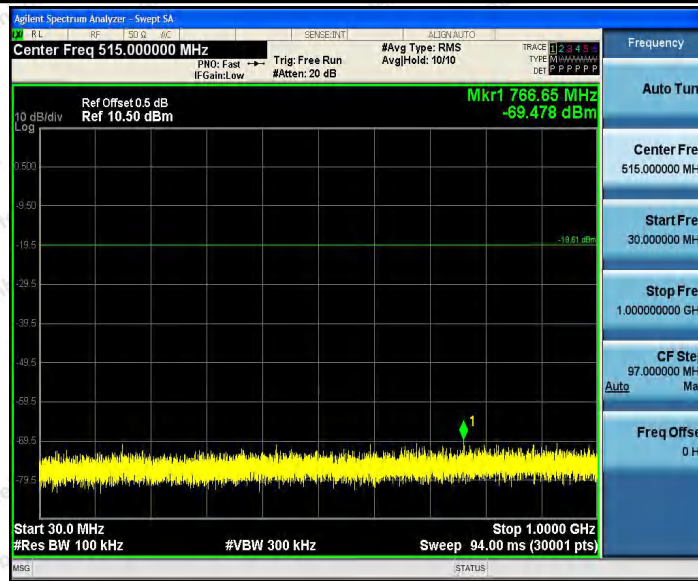


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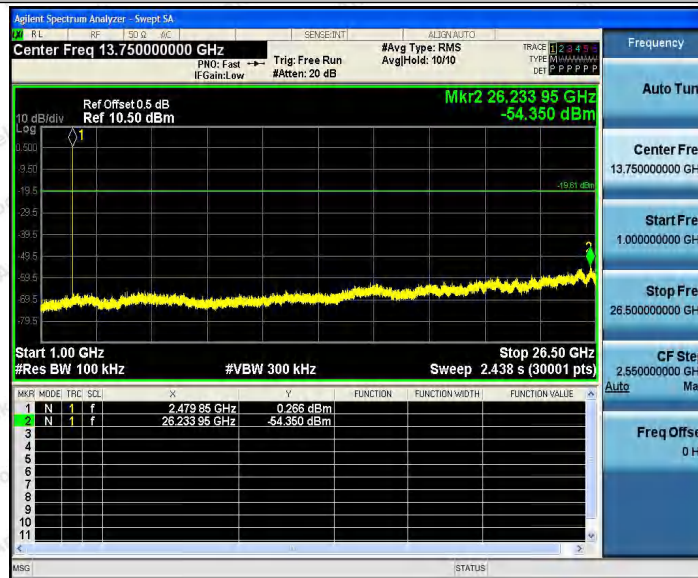
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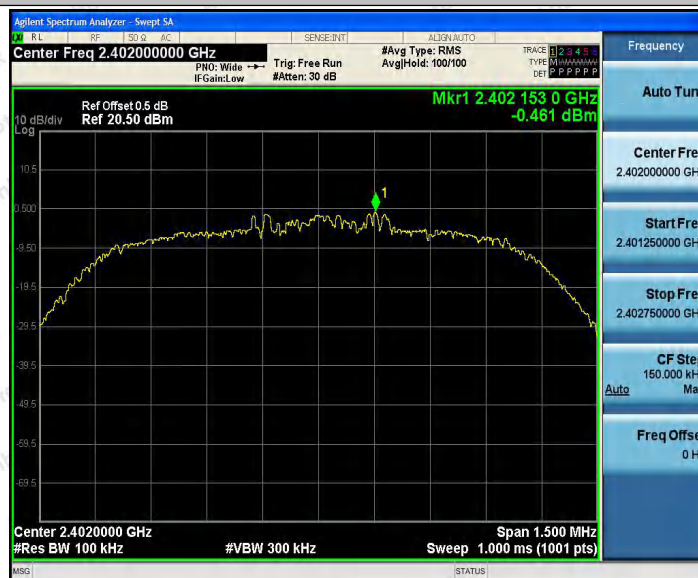
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

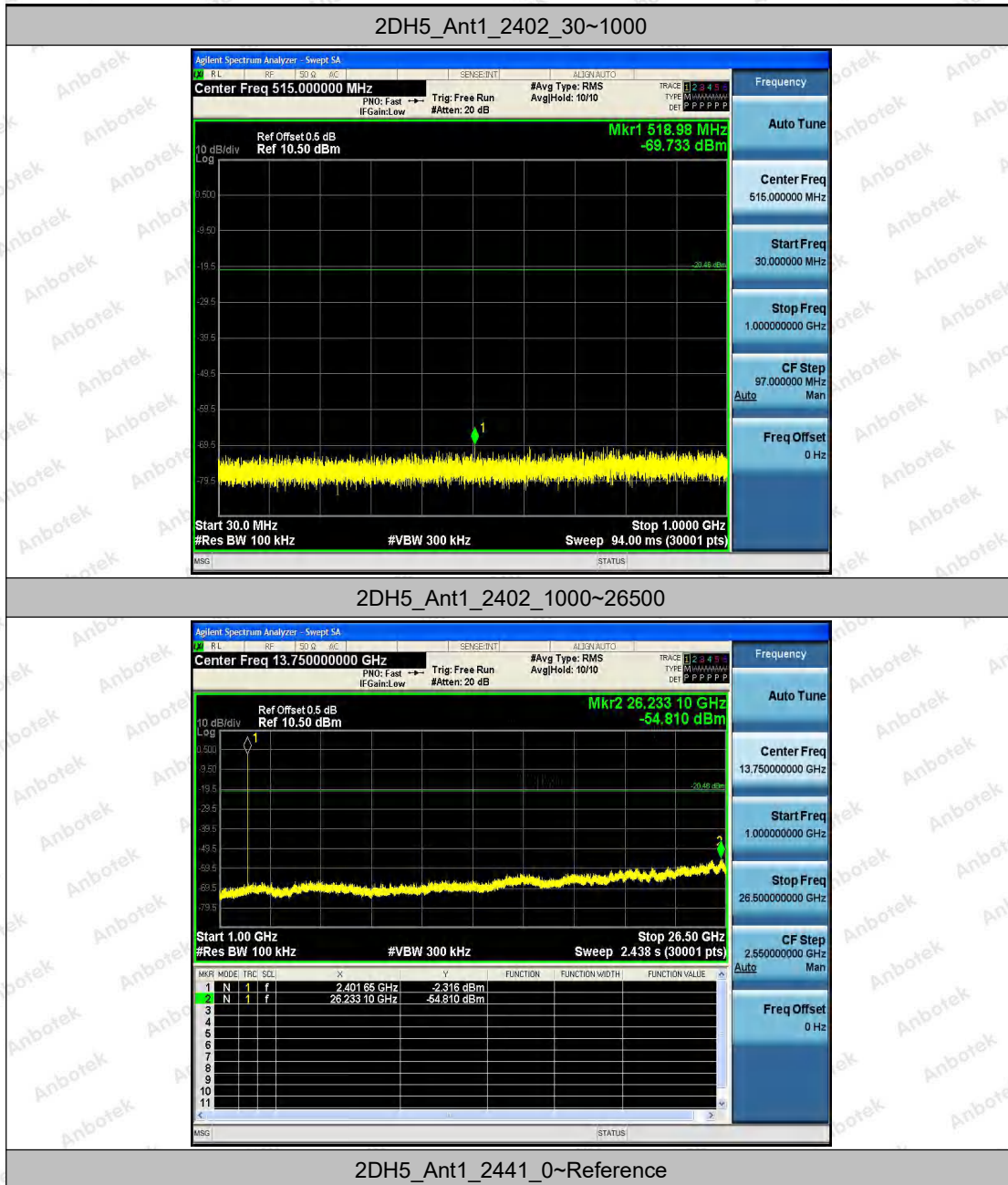


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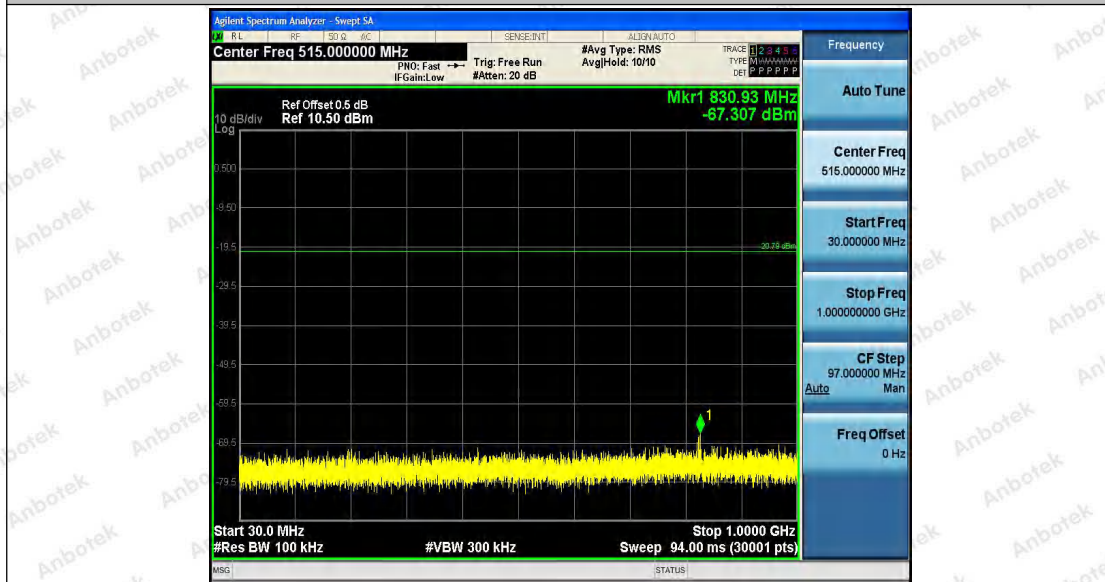
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Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

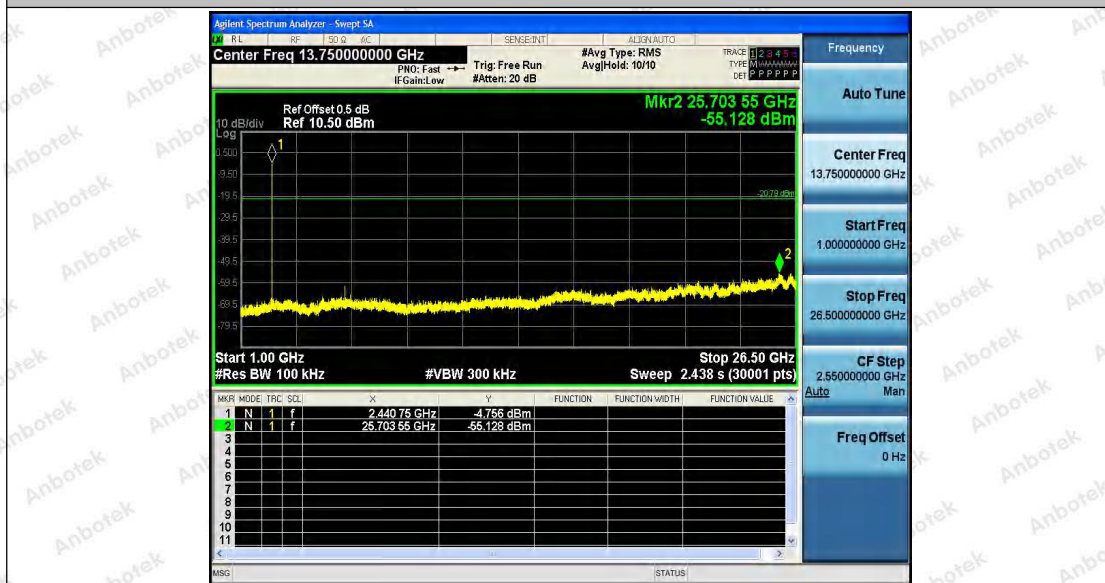
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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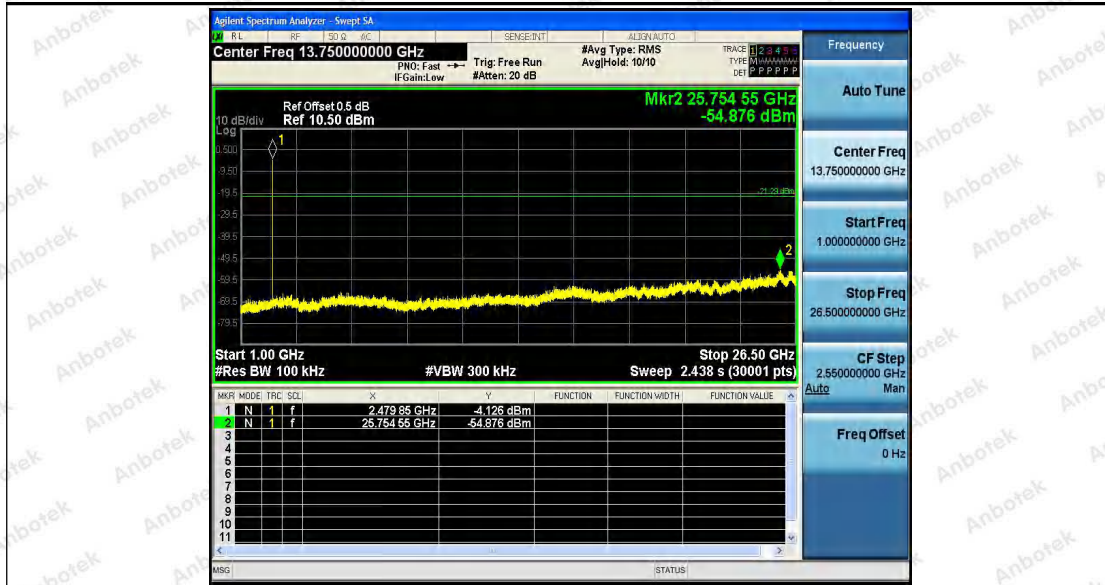
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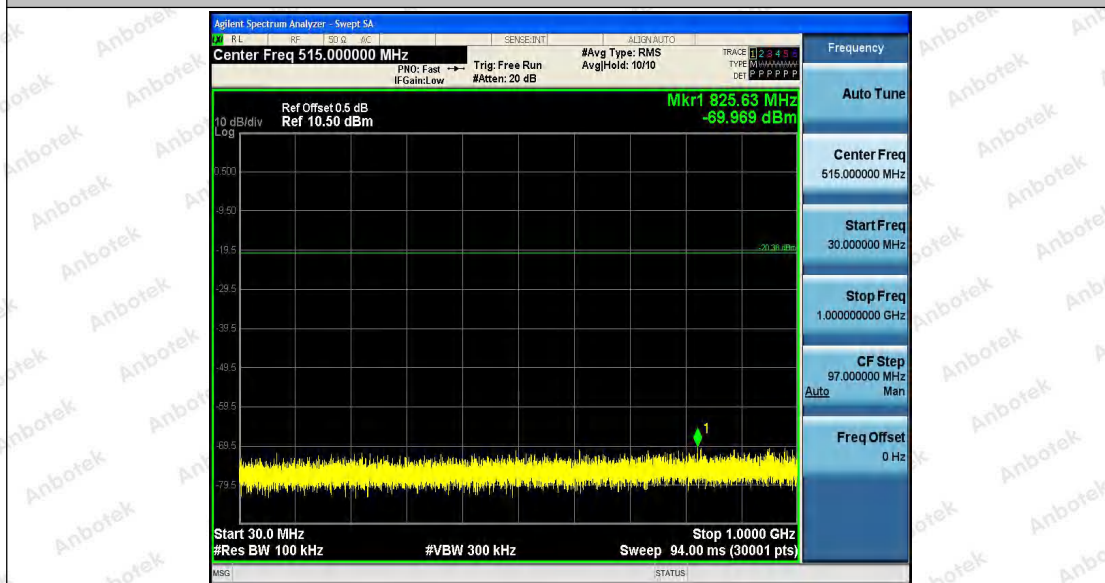
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000

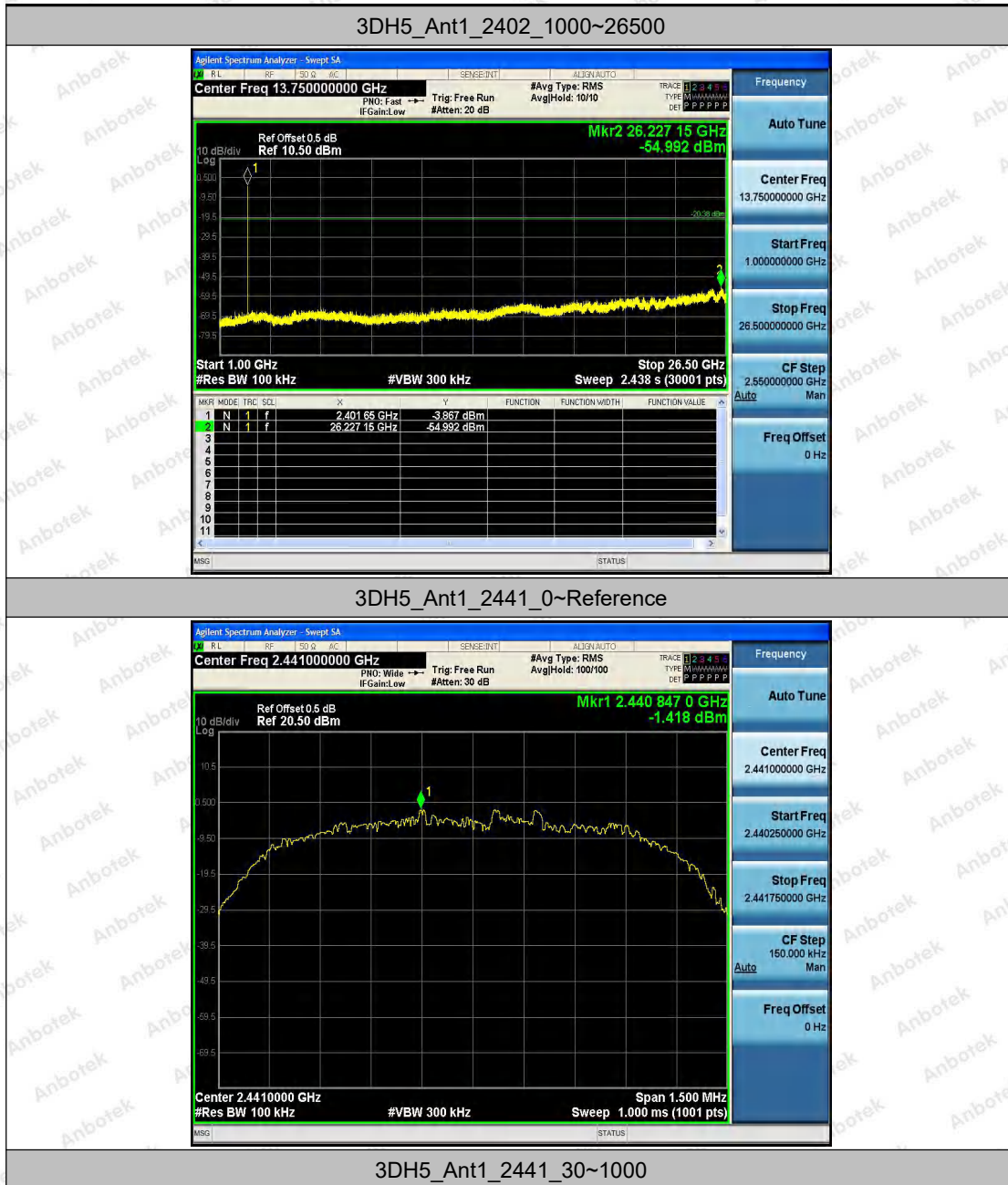


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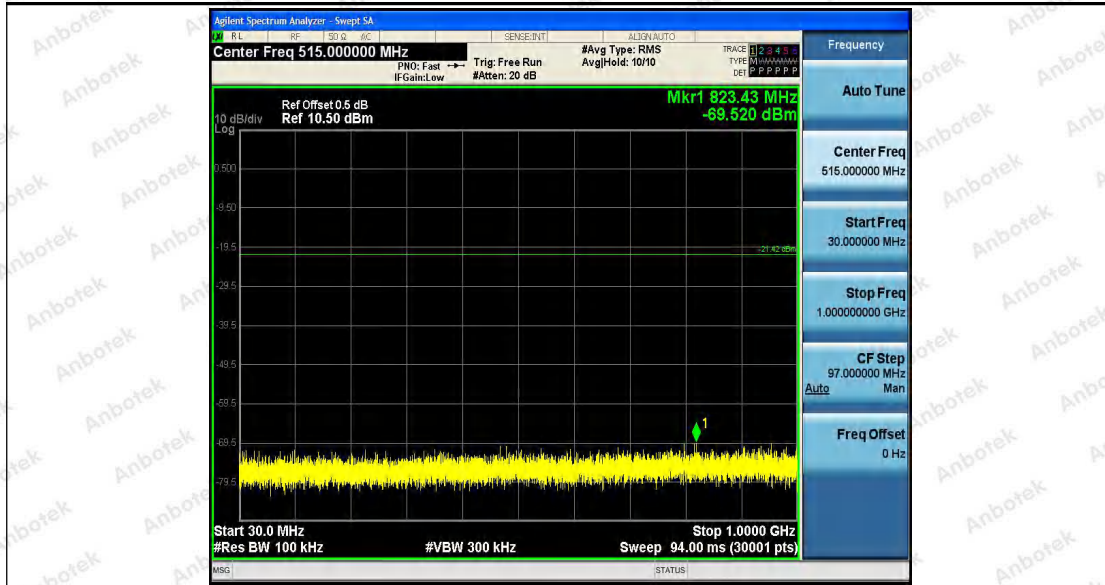


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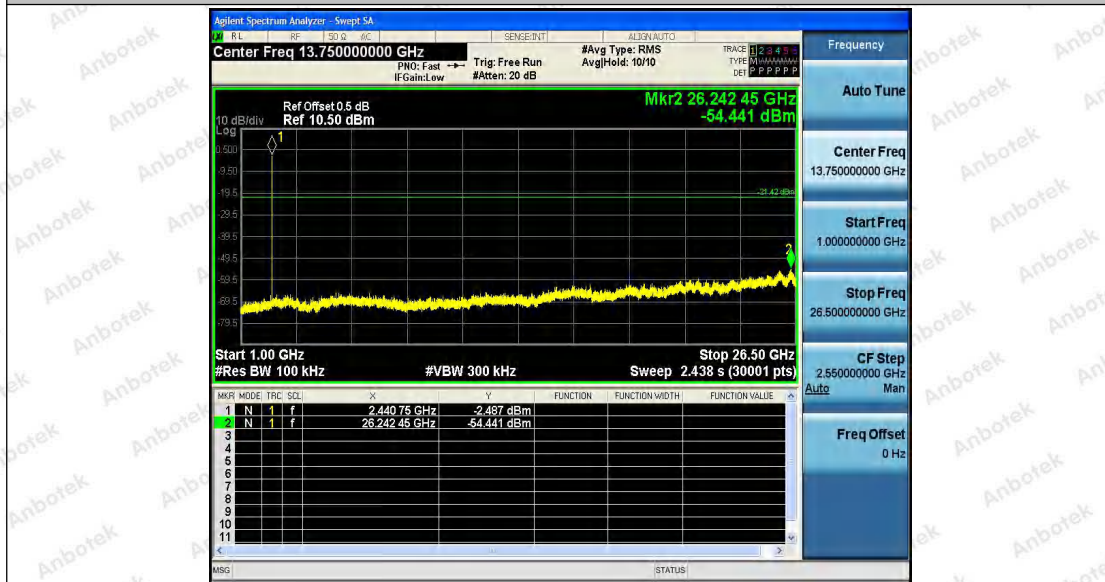
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

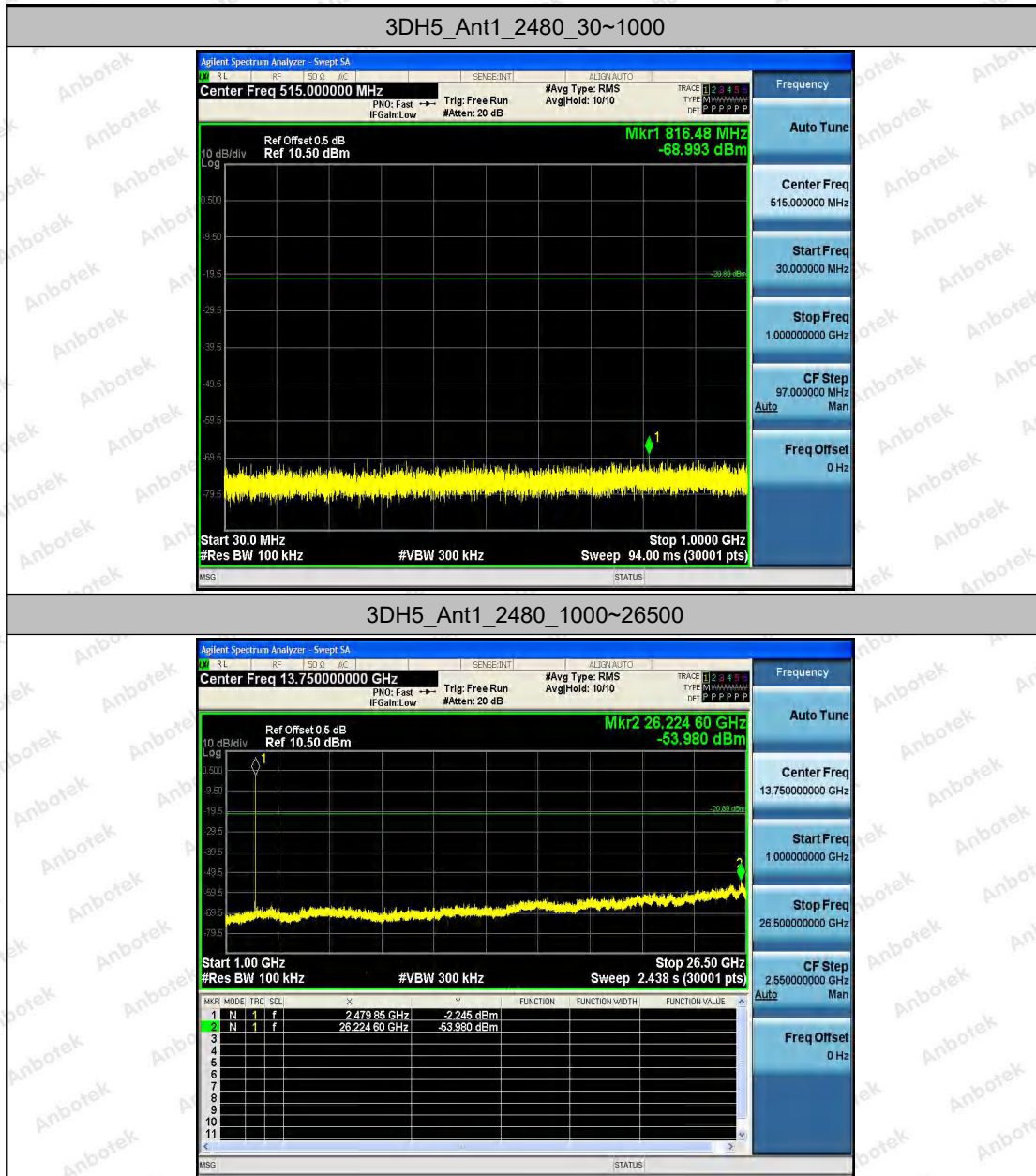


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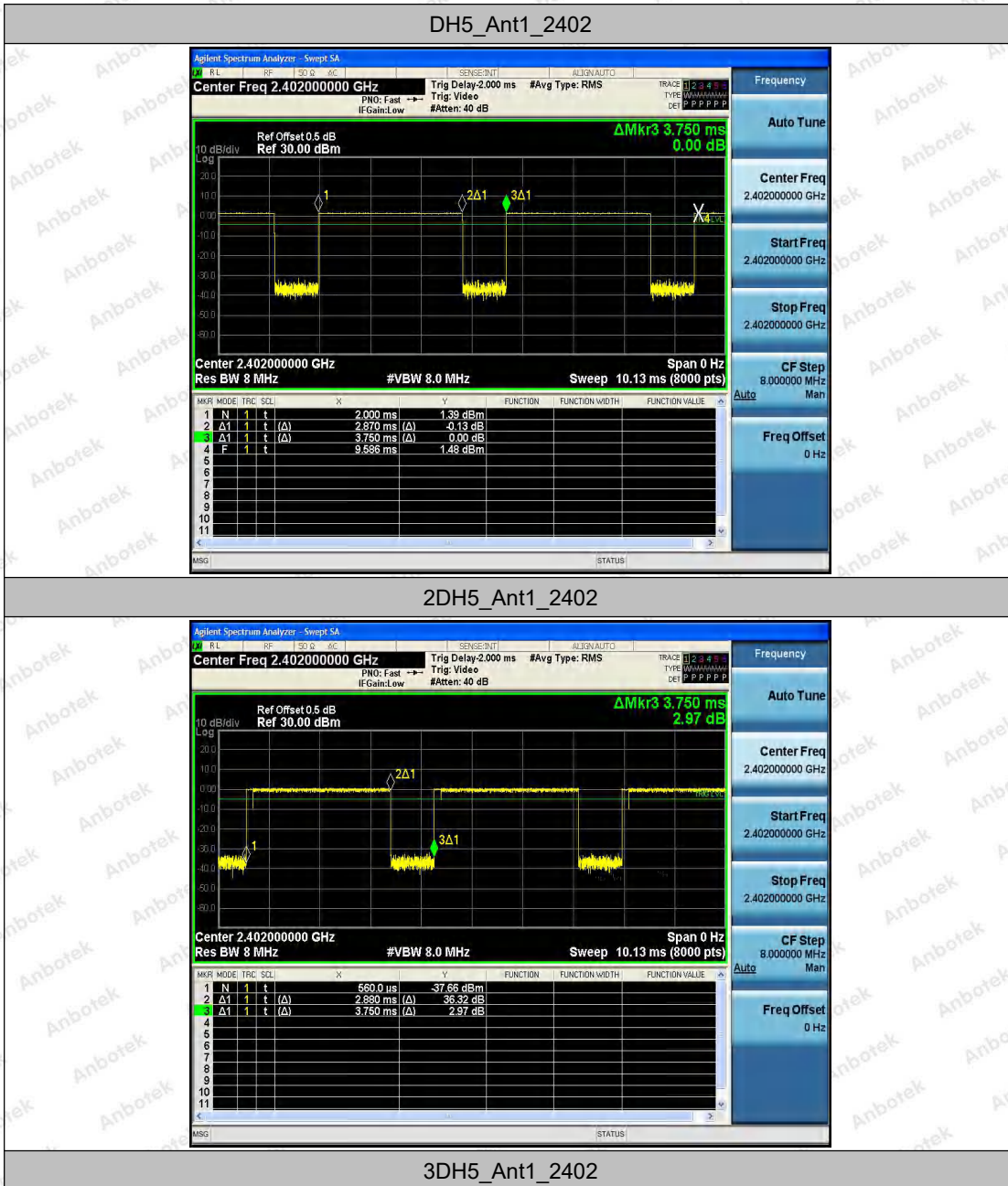
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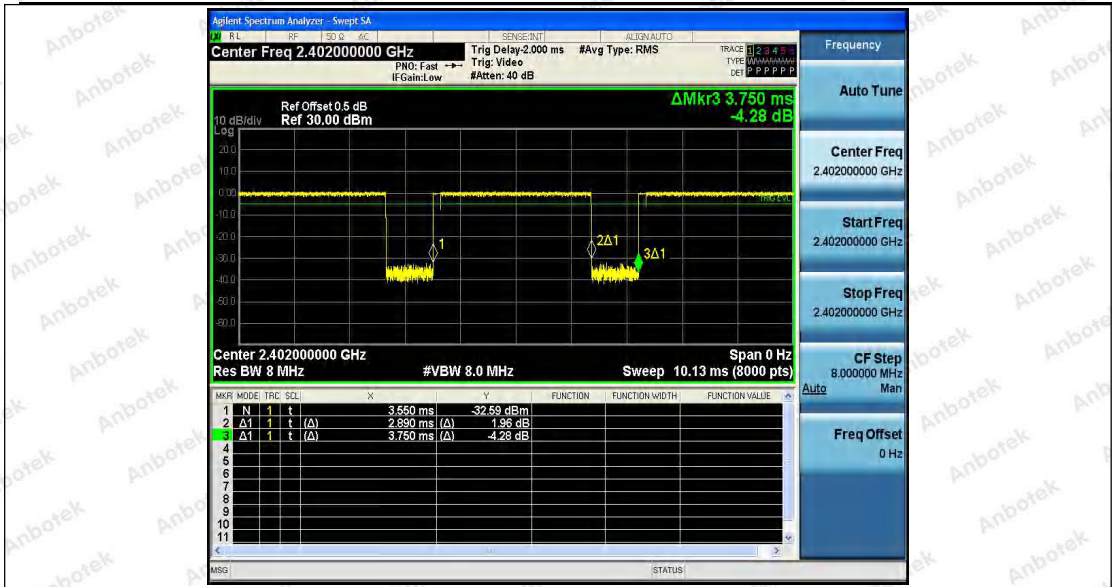
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	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





---End---