

Appendix Test Data

Report No.:	18220WC20063701	Test Sample No.:	1-2-2
Start Test Date:	2022.4.1	Finish Test Date:	2022.4.6
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	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	0.891	2401.541	2402.432	---	PASS
		2441	0.942	2440.541	2441.483	---	PASS
		2480	0.942	2479.541	2480.483	---	PASS
2DH5	Ant1	2402	1.314	2401.349	2402.663	---	PASS
		2441	1.326	2440.340	2441.666	---	PASS
		2480	1.293	2479.370	2480.663	---	PASS
3DH5	Ant1	2402	1.131	2401.445	2402.576	---	PASS
		2441	1.131	2440.445	2441.576	---	PASS
		2480	1.125	2479.442	2480.567	---	PASS

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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

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.84485	2401.578	2402.423	---	PASS
		2441	0.84371	2440.578	2441.422	---	PASS
		2480	0.84776	2479.574	2480.422	---	PASS
2DH5	Ant1	2402	1.1780	2401.413	2402.591	---	PASS
		2441	1.1820	2440.412	2441.594	---	PASS
		2480	1.1834	2479.411	2480.595	---	PASS
3DH5	Ant1	2402	1.0750	2401.470	2402.546	---	PASS
		2441	1.0303	2440.488	2441.518	---	PASS
		2480	1.0619	2479.476	2480.538	---	PASS

Test Graphs



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2DH5_Ant1_2402



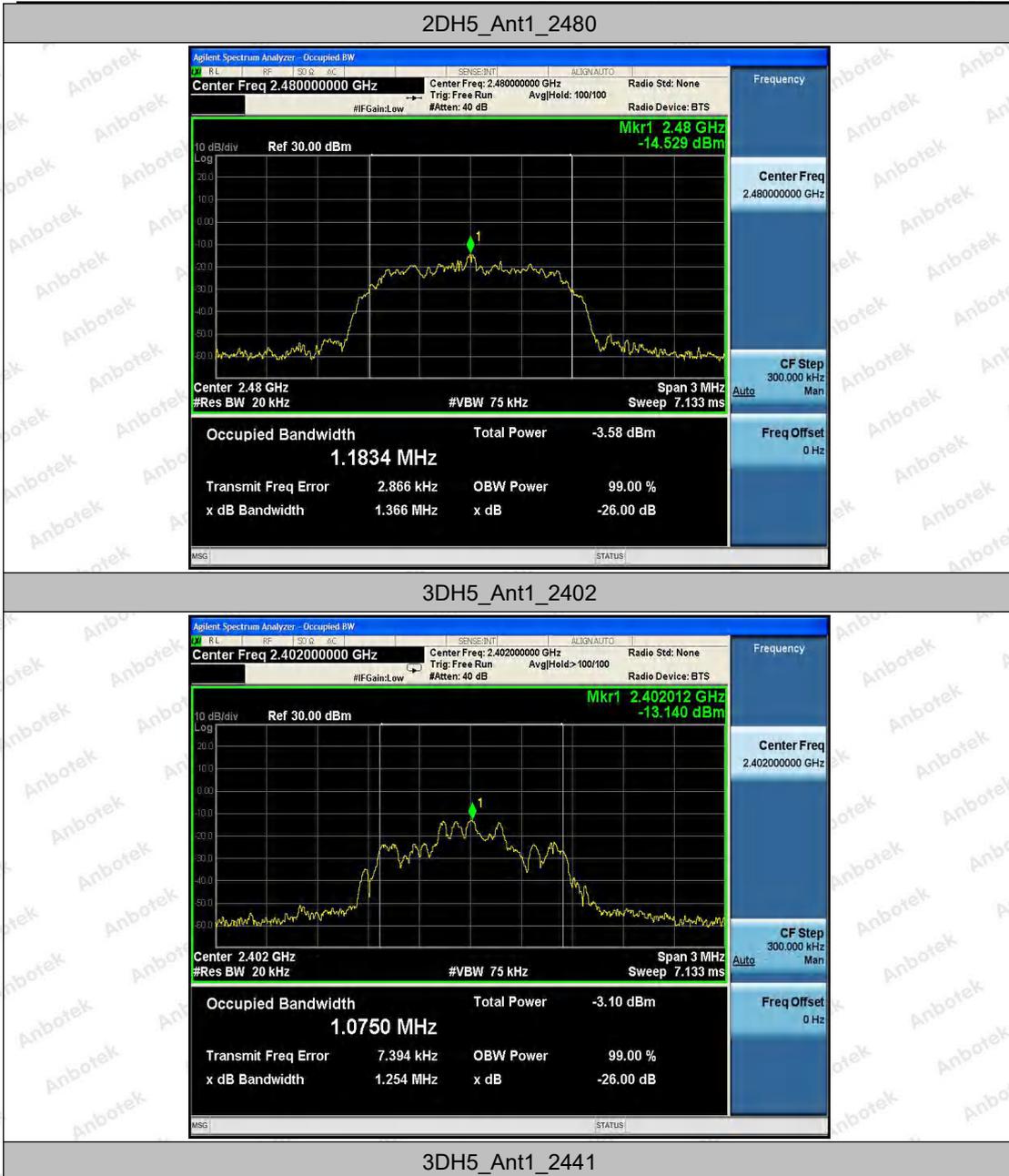
2DH5_Ant1_2441



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3DH5_Ant1_2480



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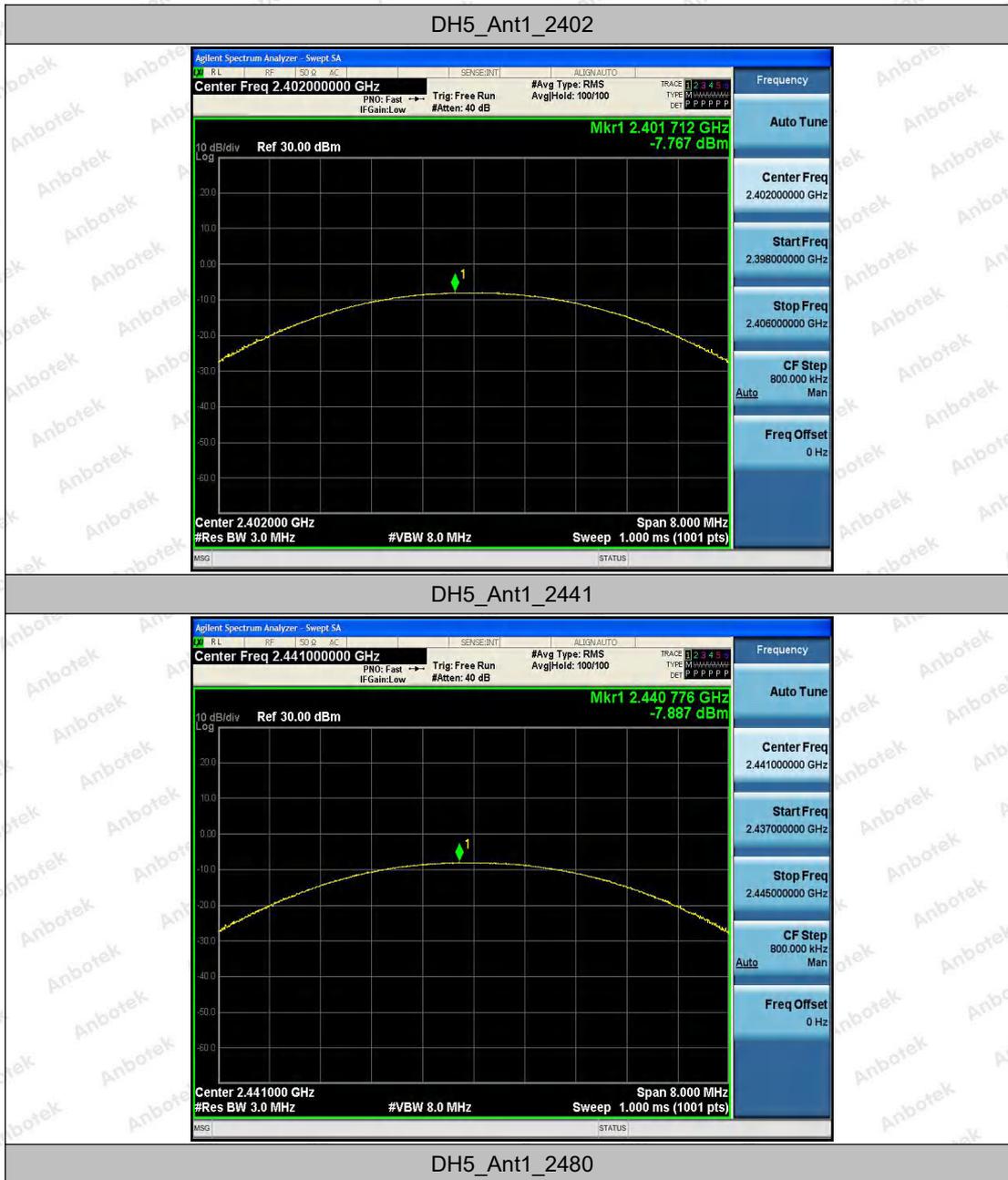
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Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-7.77	≤20.97	PASS
		2441	-7.89	≤20.97	PASS
		2480	-9.2	≤20.97	PASS
2DH5	Ant1	2402	-6.2	≤20.97	PASS
		2441	-6.12	≤20.97	PASS
		2480	-7.21	≤20.97	PASS
3DH5	Ant1	2402	-6.39	≤20.97	PASS
		2441	-6.44	≤20.97	PASS
		2480	-7.62	≤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

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.952	≥0.942	PASS
2DH5	Ant1	Hop	0.996	≥0.884	PASS
3DH5	Ant1	Hop	1.016	≥0.754	PASS

Test Graphs





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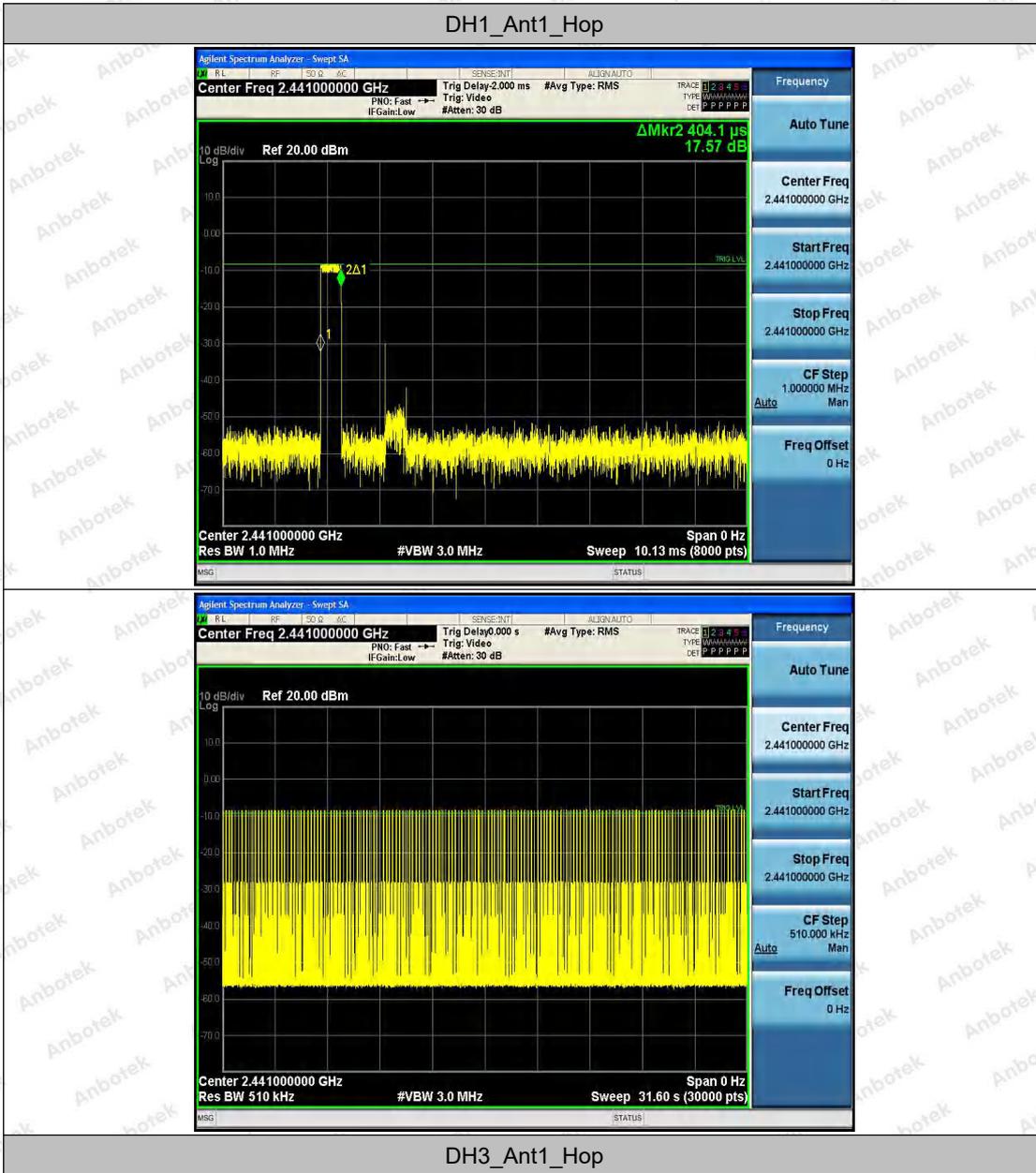
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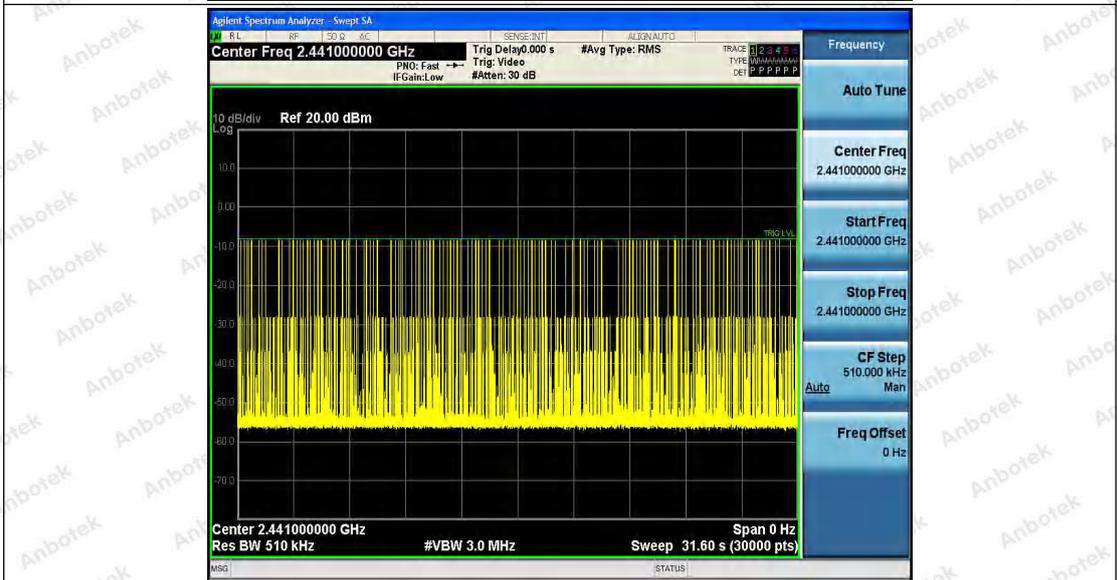
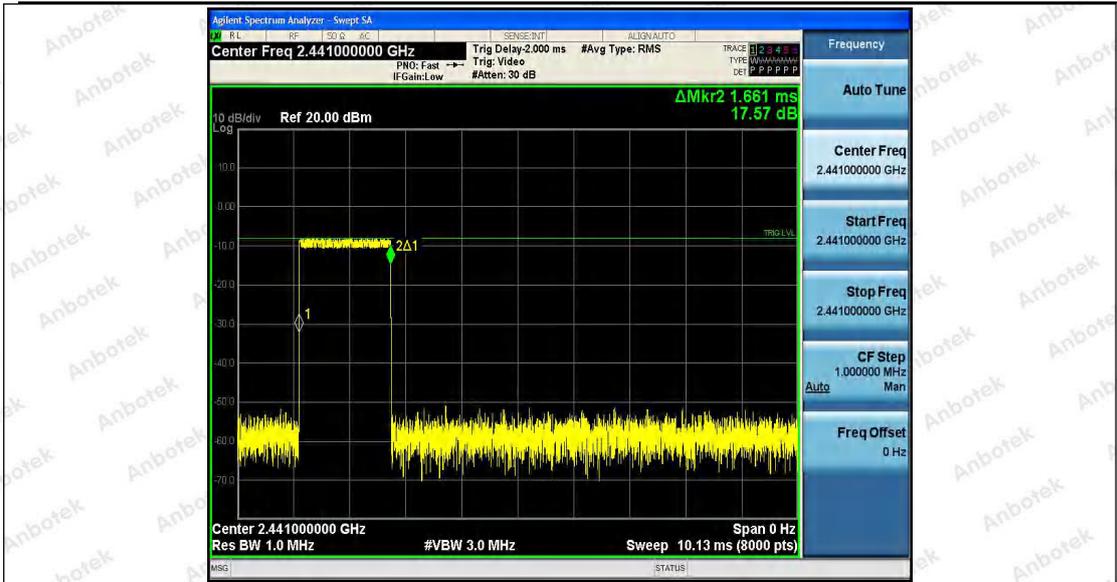
Appendix E: Time of occupancy

Test Result

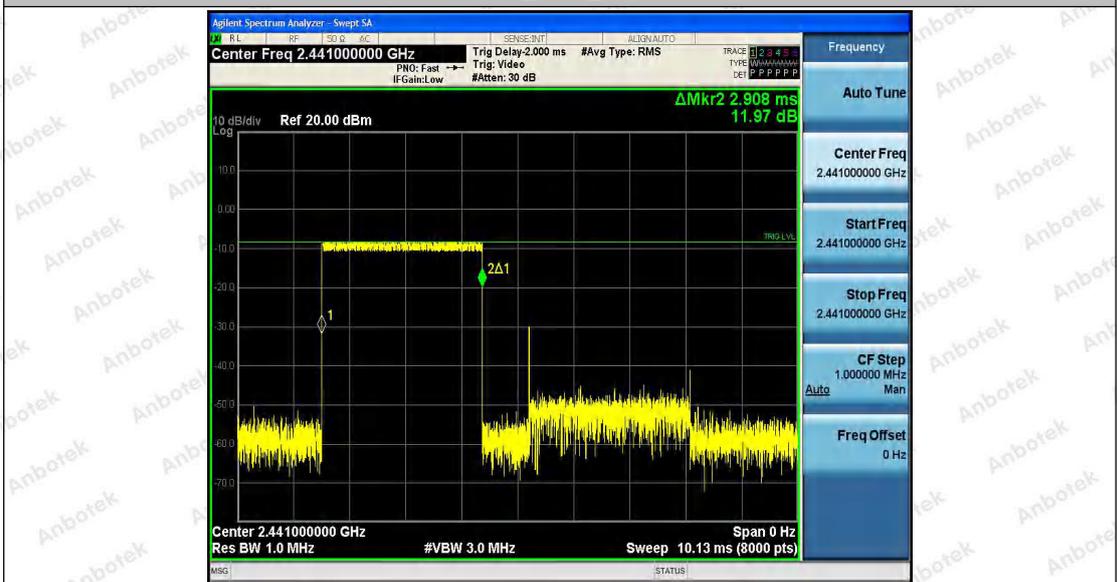
Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.40	311	0.126	≤0.4	PASS
DH3	Ant1	Hop	1.66	159	0.264	≤0.4	PASS
DH5	Ant1	Hop	2.91	115	0.334	≤0.4	PASS
2DH1	Ant1	Hop	0.41	318	0.131	≤0.4	PASS
2DH3	Ant1	Hop	1.67	161	0.268	≤0.4	PASS
2DH5	Ant1	Hop	2.91	110	0.32	≤0.4	PASS
3DH1	Ant1	Hop	0.19	98	0.019	≤0.4	PASS
3DH3	Ant1	Hop	1.66	155	0.257	≤0.4	PASS
3DH5	Ant1	Hop	0.19	98	0.019	≤0.4	PASS

Test Graphs





DH5_Ant1_Hop

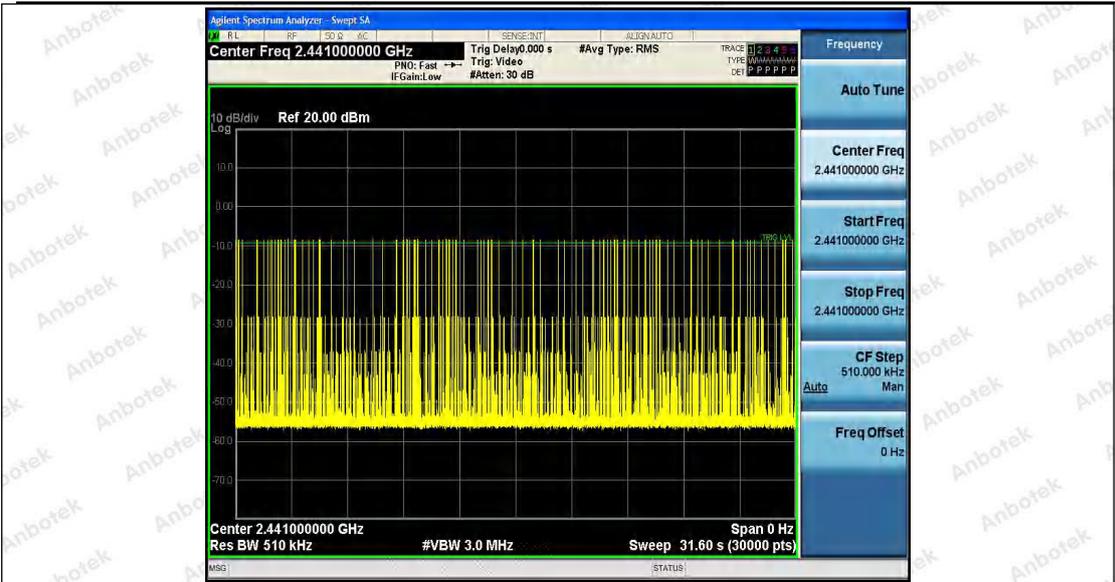


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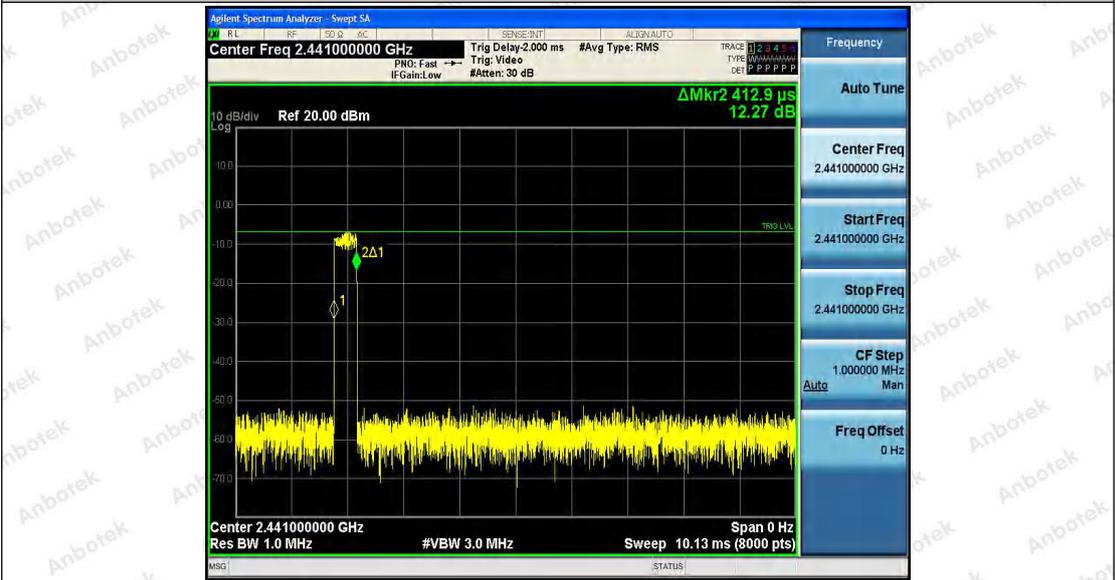
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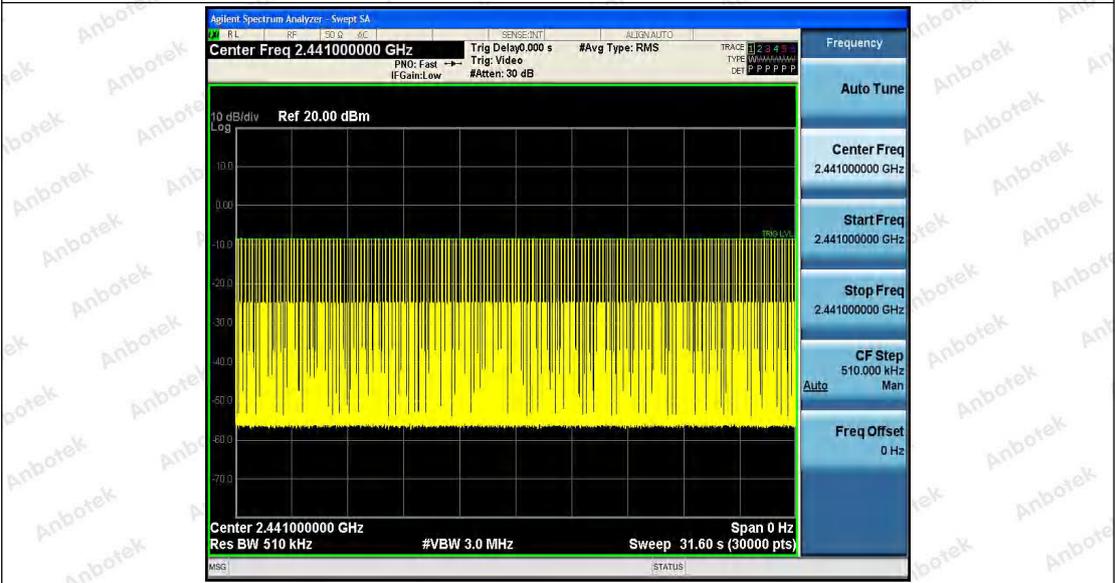
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2DH1_Ant1_Hop



2DH3_Ant1_Hop

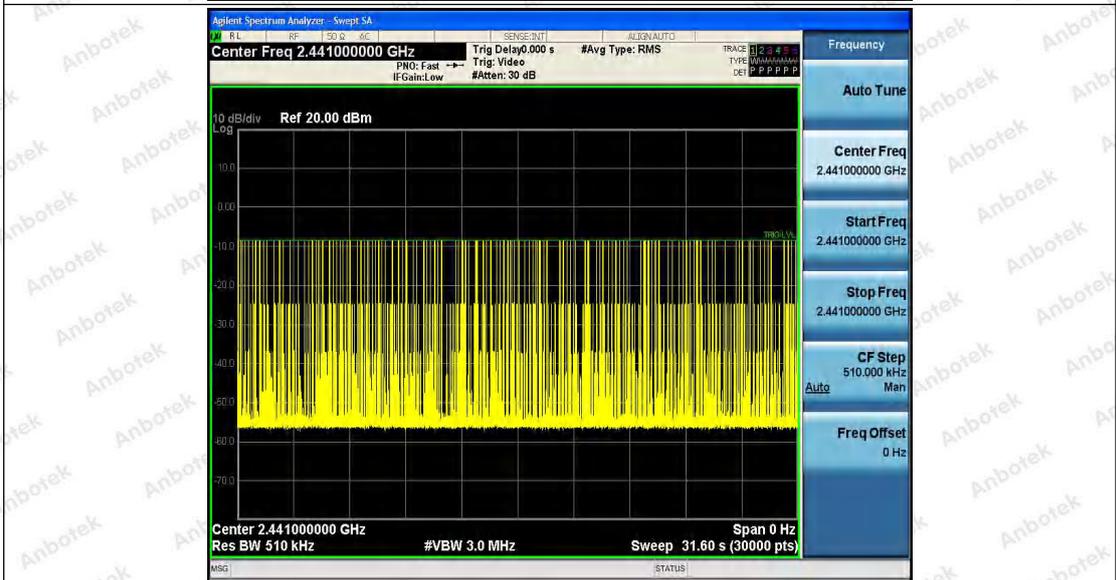
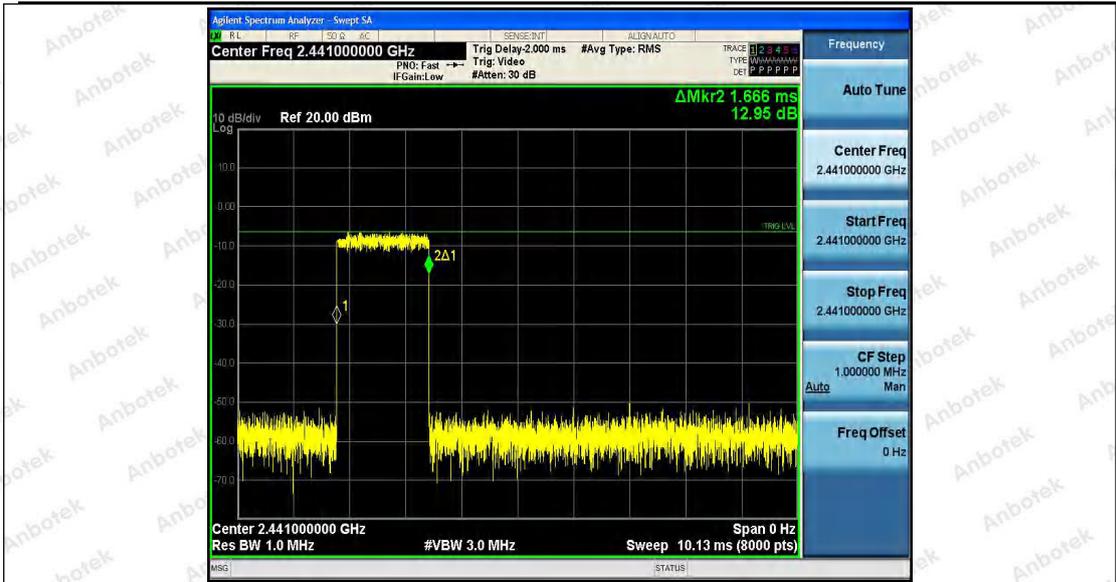


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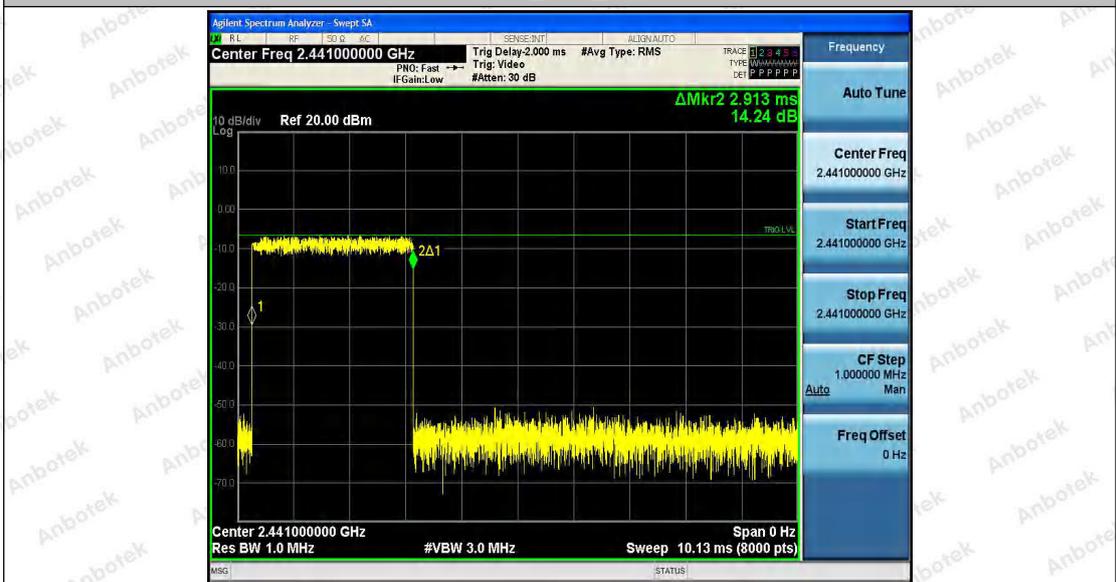
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2DH5_Ant1_Hop

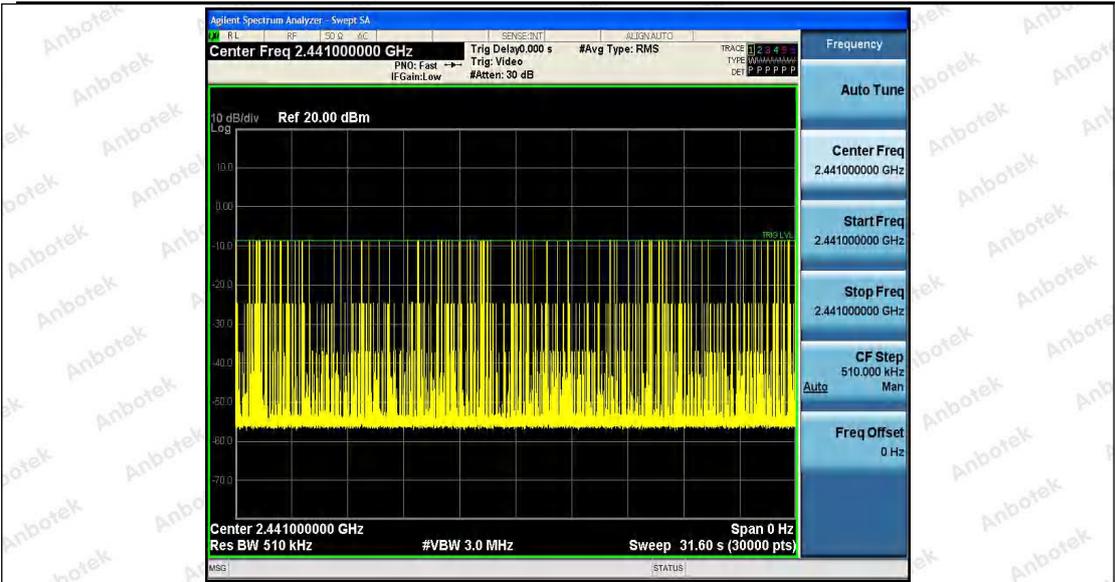


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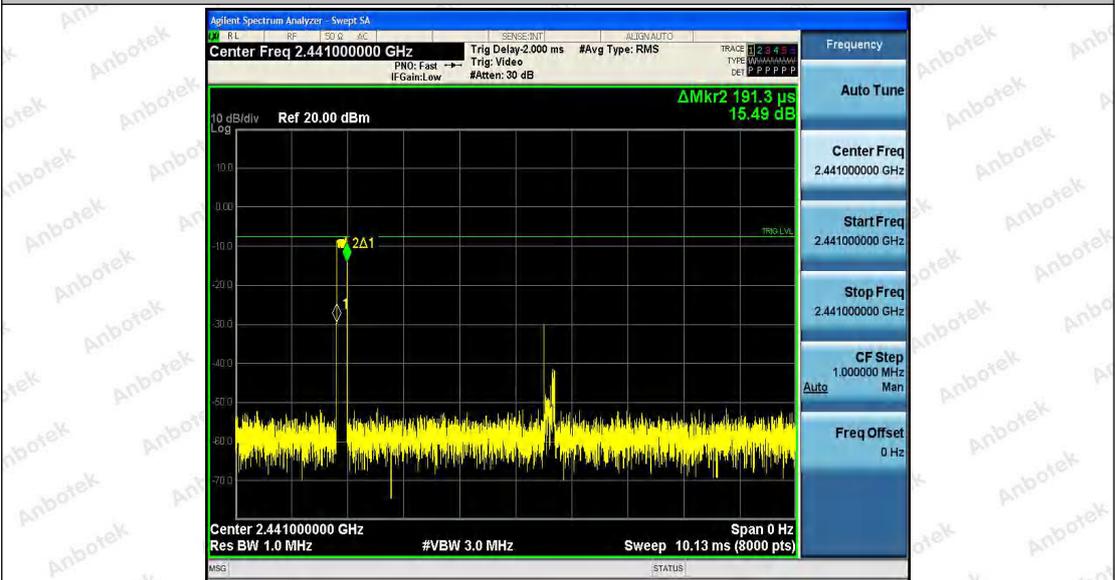
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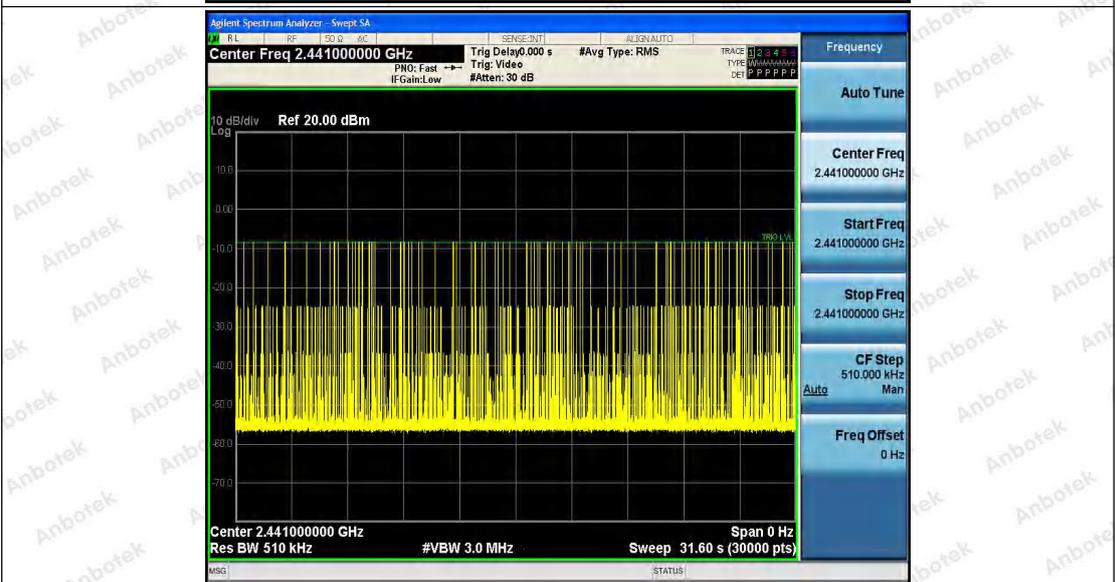
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3DH1_Ant1_Hop



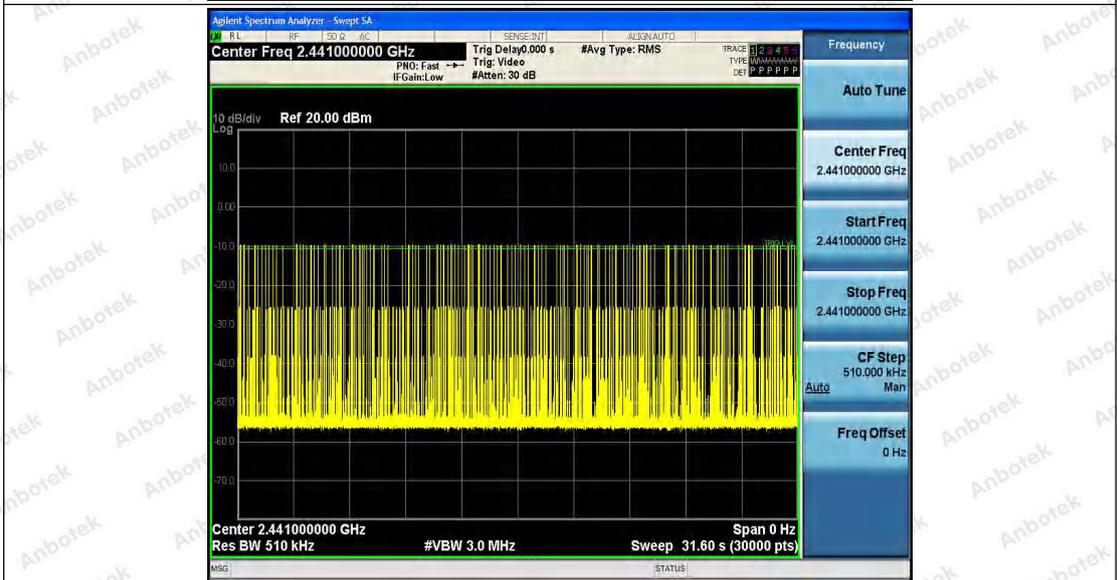
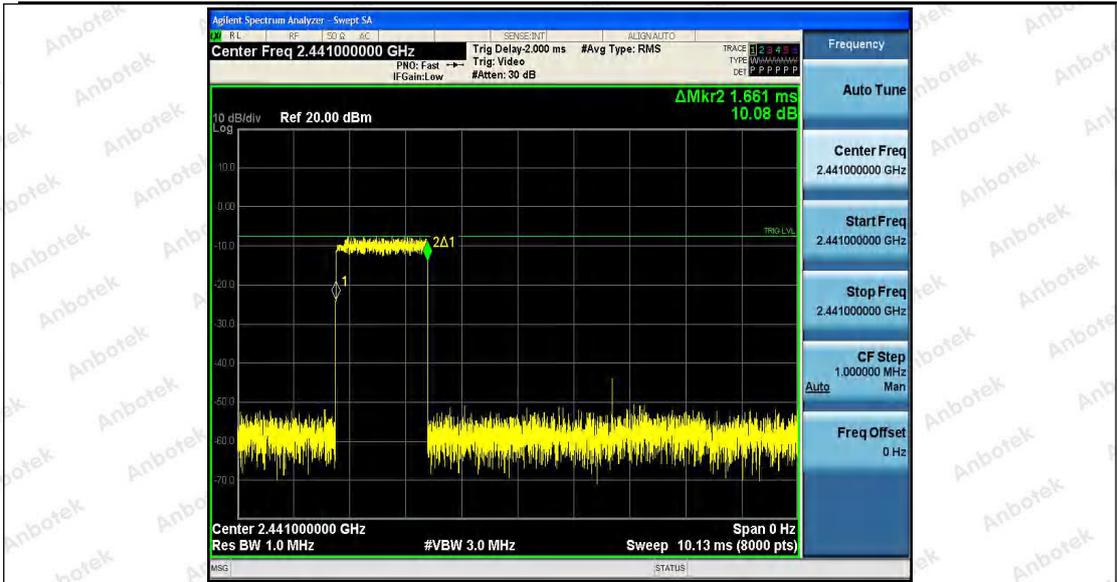
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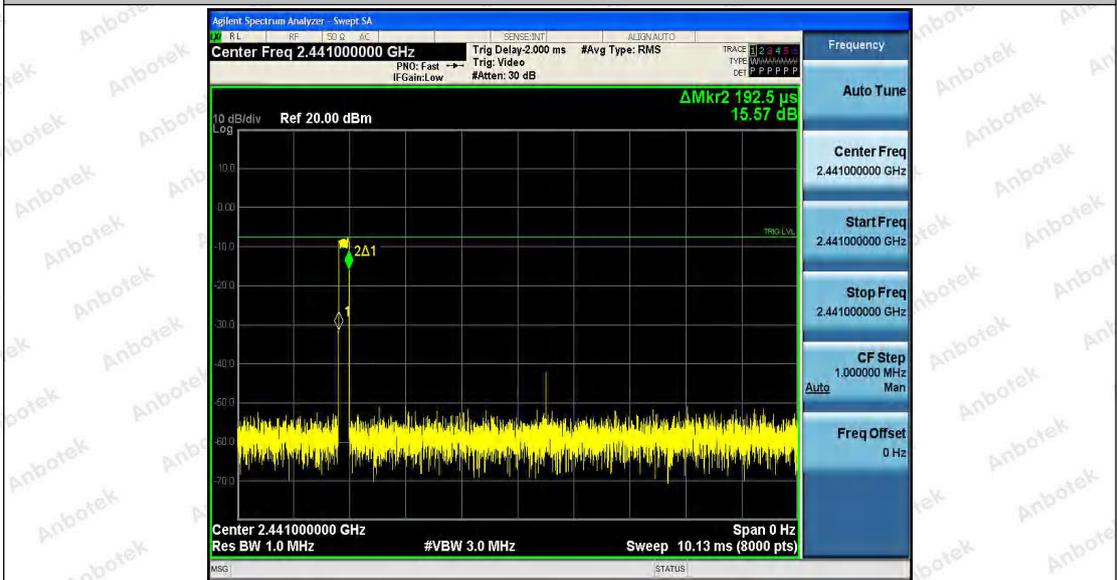
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3DH5_Ant1_Hop

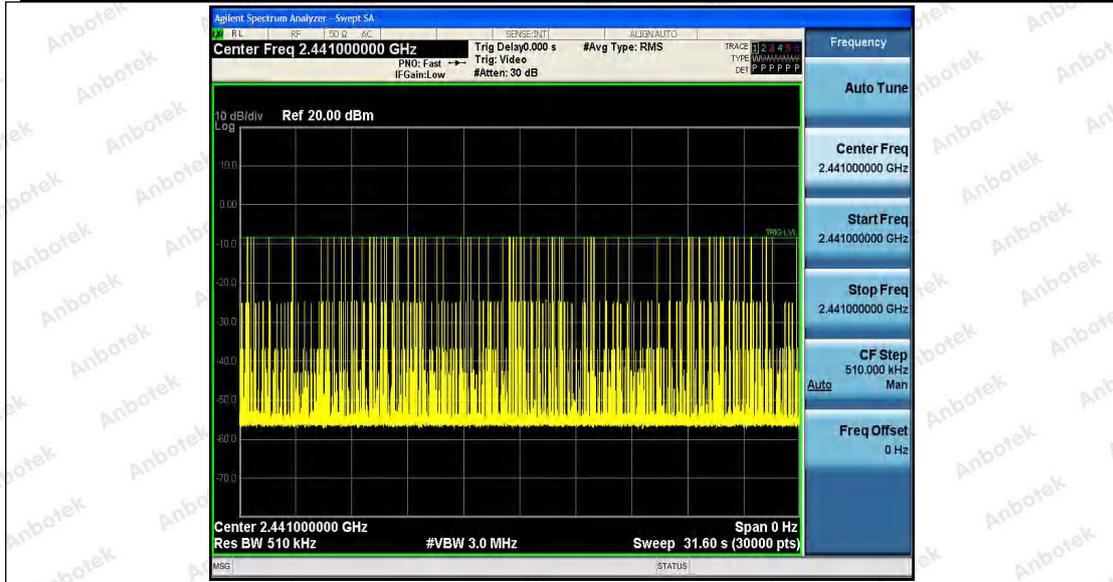


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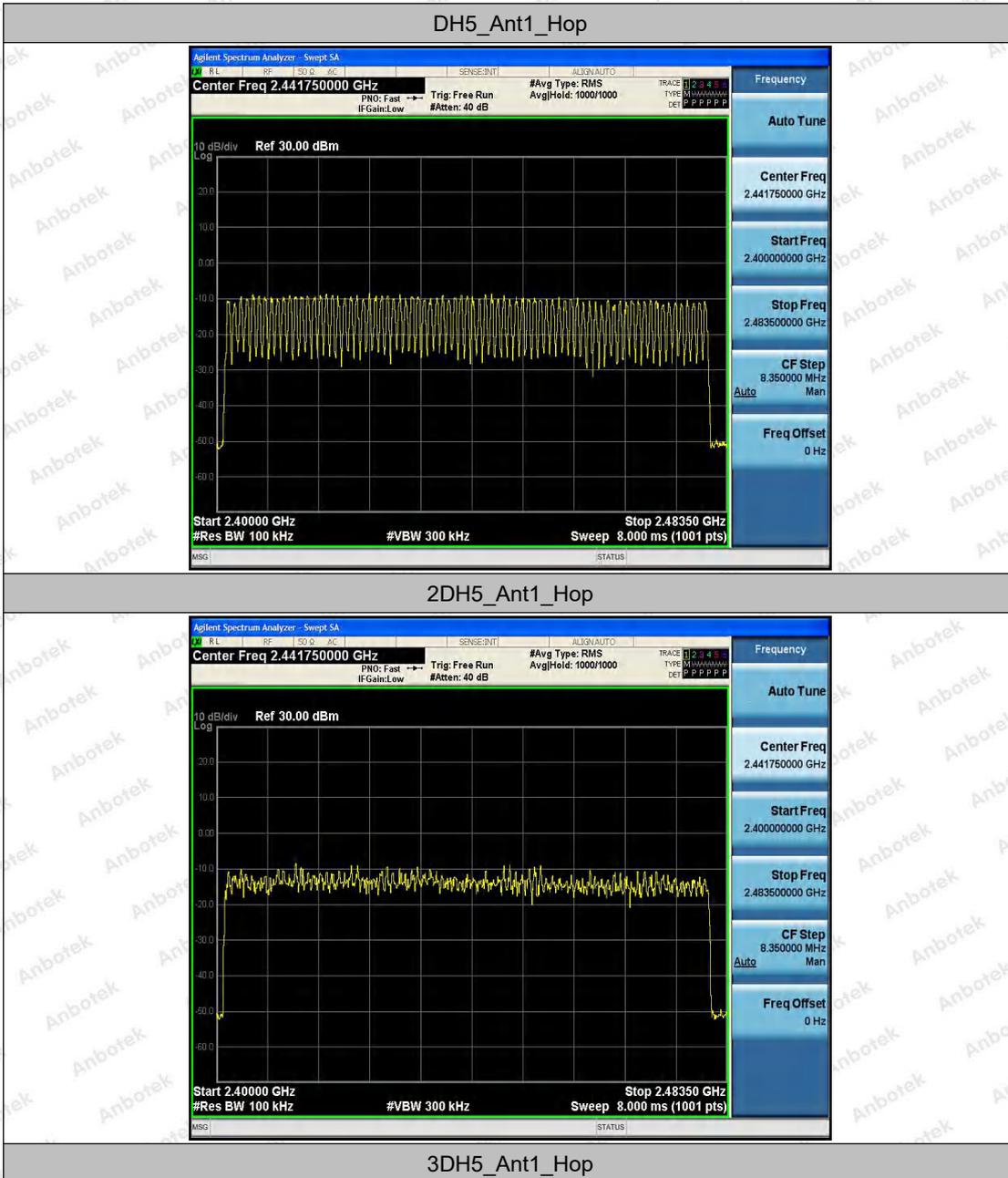
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Appendix F: Number of hopping channels

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

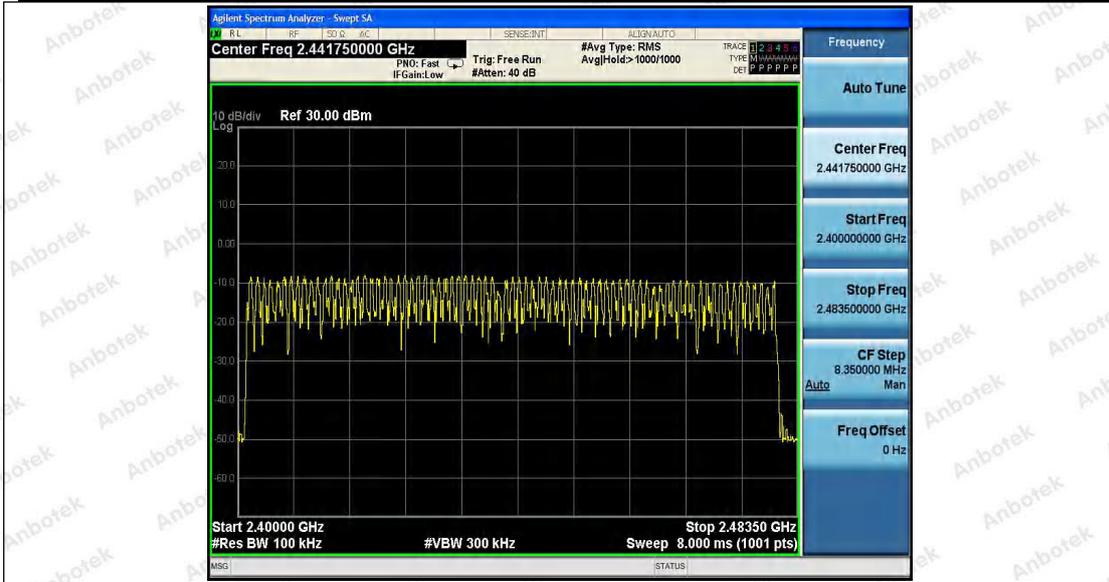


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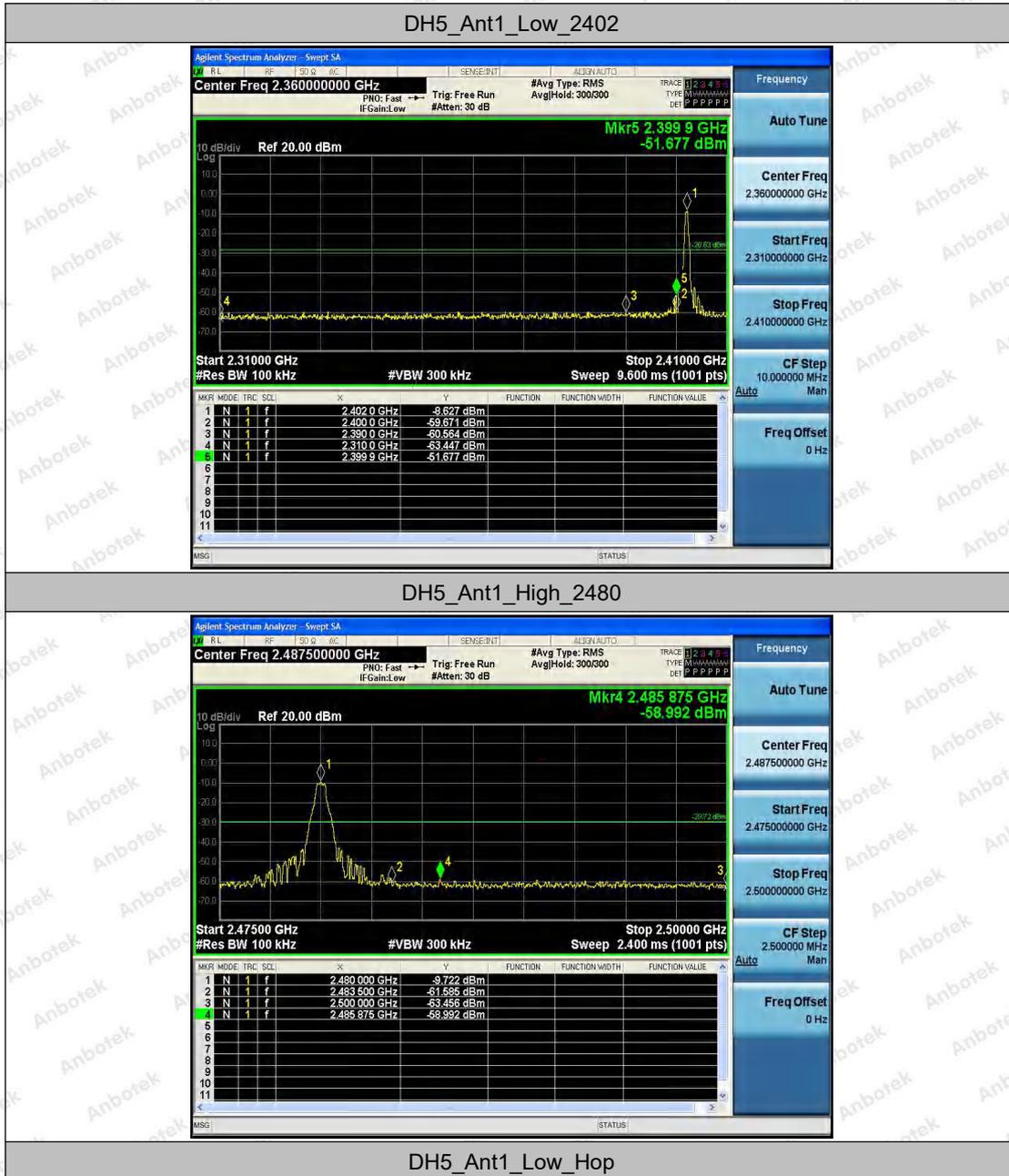
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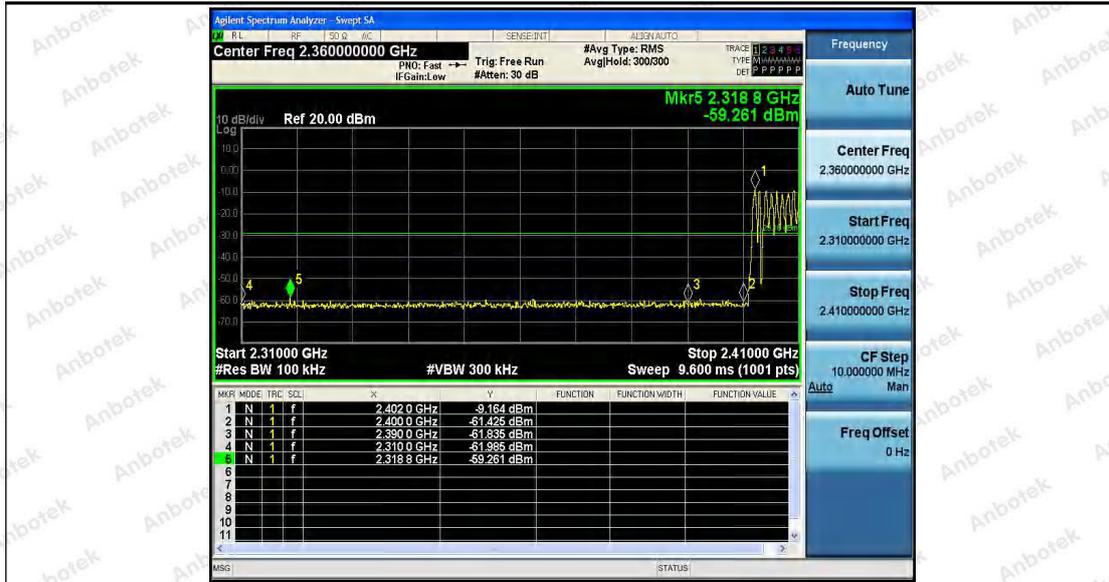
Appendix G: Band edge measurements

Test Result

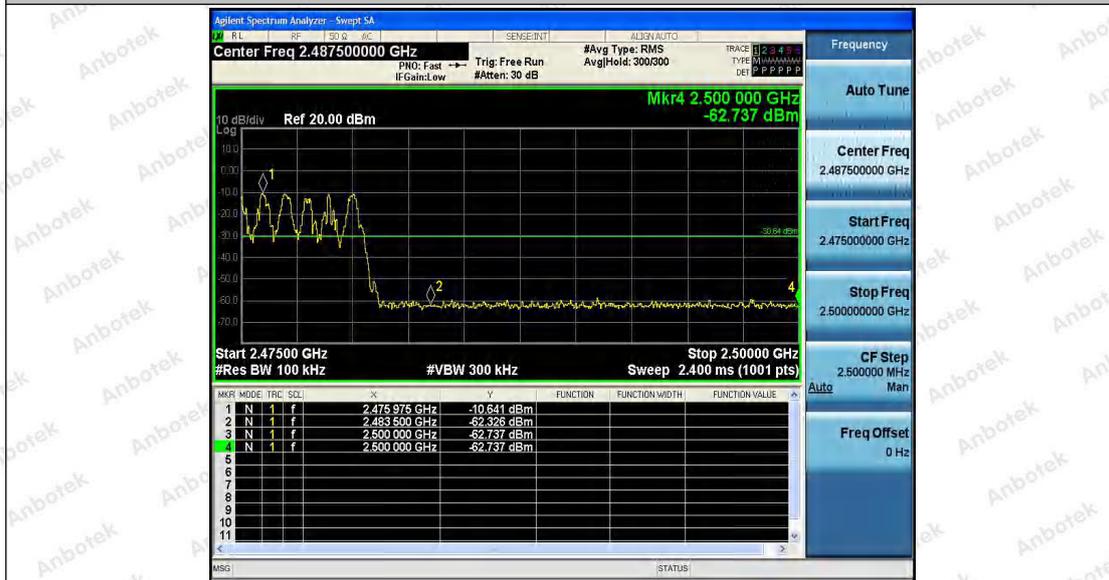
Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-8.63	-51.68	≤-28.63	PASS
		High	2480	-9.72	-58.99	≤-29.72	PASS
		Low	Hop	-9.16	-59.26	≤-29.16	PASS
		High	Hop	-10.64	-62.74	≤-30.64	PASS
2DH5	Ant1	Low	2402	-8.65	-52.78	≤-28.65	PASS
		High	2480	-11.43	-57.46	≤-31.43	PASS
		Low	Hop	-11.63	-58.93	≤-31.63	PASS
		High	Hop	-9.93	-62.24	≤-29.93	PASS
3DH5	Ant1	Low	2402	-8.86	-51.05	≤-28.86	PASS
		High	2480	-9.79	-57.71	≤-29.79	PASS
		Low	Hop	-8.47	-58.62	≤-28.47	PASS
		High	Hop	-9.60	-60.55	≤-29.6	PASS

Test Graphs

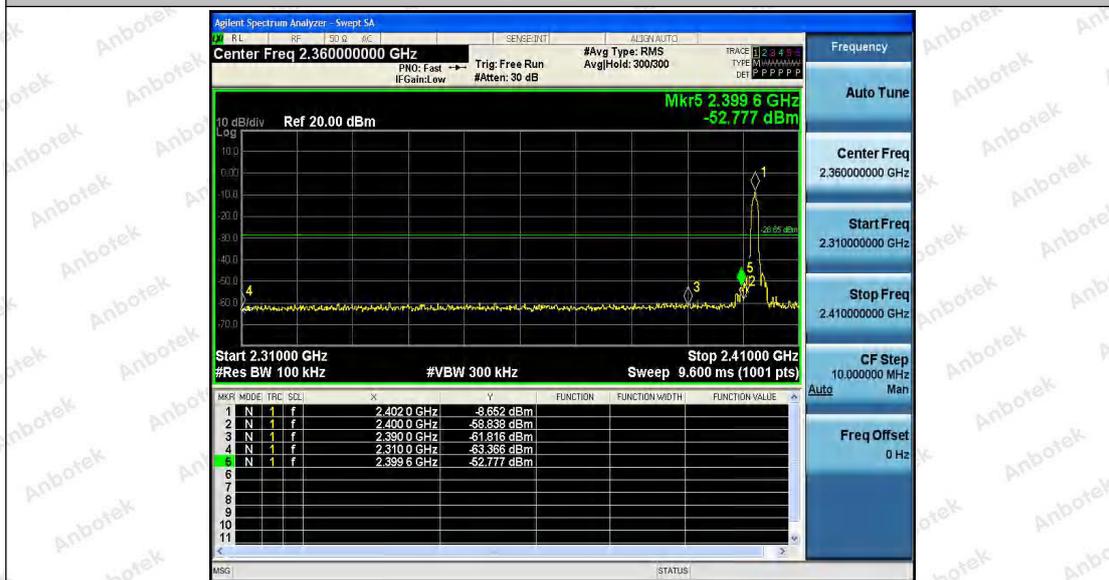




DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402

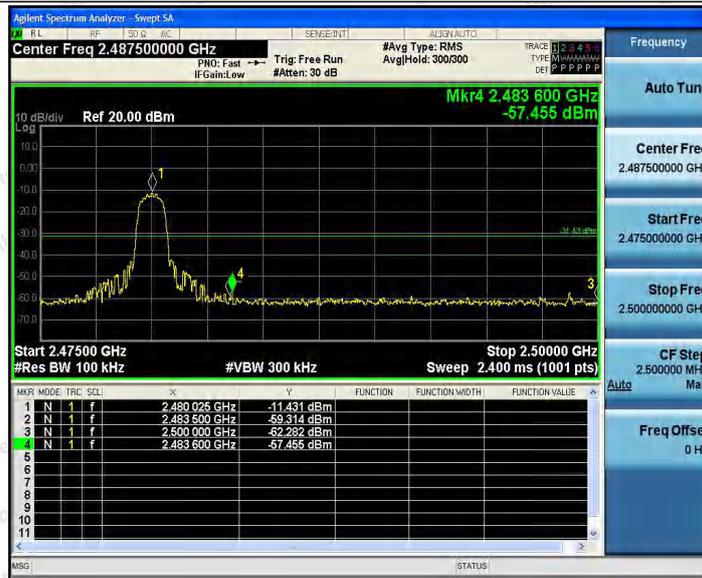


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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



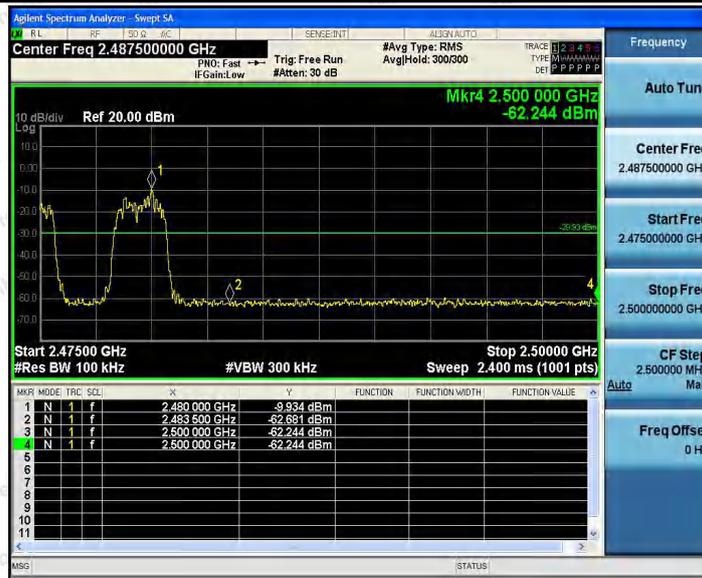
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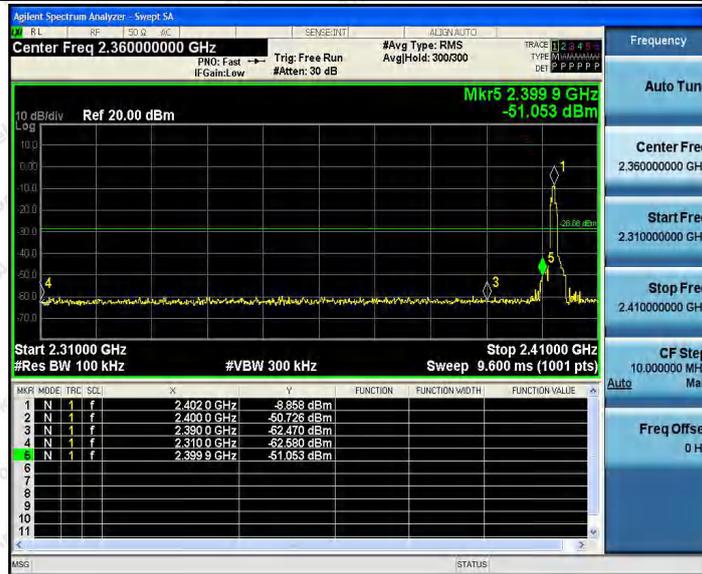
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

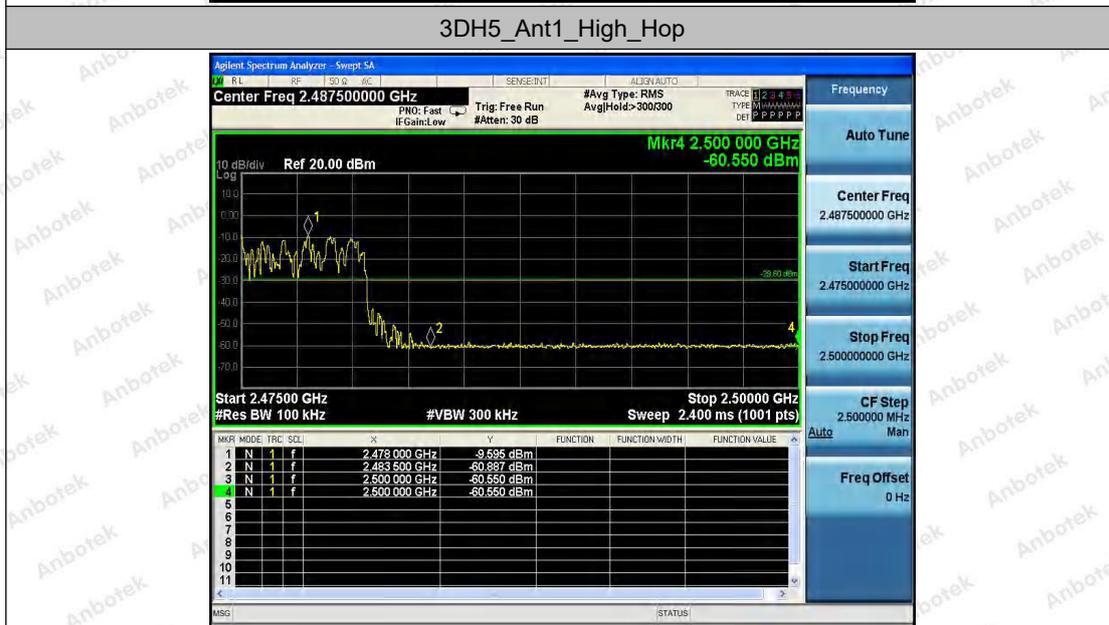


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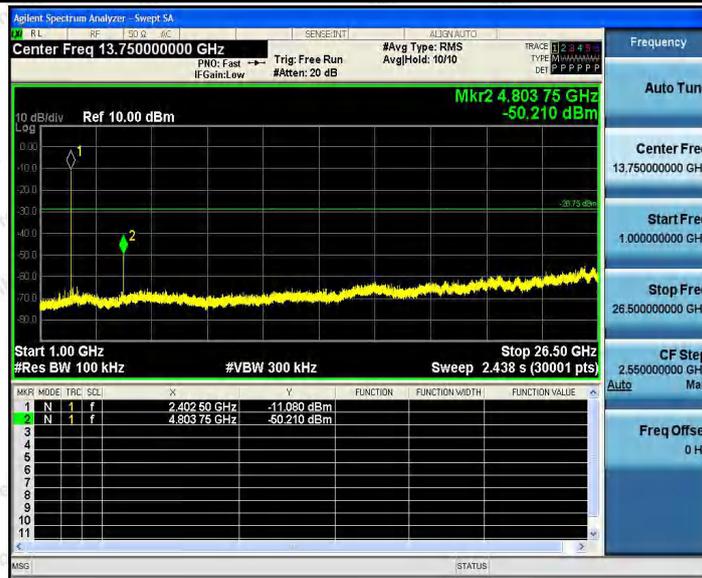
Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-8.75	-8.75	---	PASS
			30~1000	-8.75	-65.14	≤-28.75	PASS
			1000~26500	-8.75	-50.21	≤-28.75	PASS
		2441	Reference	-9.11	-9.11	---	PASS
			30~1000	-9.11	-64.35	≤-29.11	PASS
			1000~26500	-9.11	-50.35	≤-29.11	PASS
		2480	Reference	-10.17	-10.17	---	PASS
			30~1000	-10.17	-63.83	≤-30.17	PASS
			1000~26500	-10.17	-52.3	≤-30.17	PASS
2DH5	Ant1	2402	Reference	-8.74	-8.74	---	PASS
			30~1000	-8.74	-63.8	≤-28.74	PASS
			1000~26500	-8.74	-51.07	≤-28.74	PASS
		2441	Reference	-9.54	-9.54	---	PASS
			30~1000	-9.54	-64.09	≤-29.54	PASS
			1000~26500	-9.54	-51.48	≤-29.54	PASS
		2480	Reference	-10.73	-10.73	---	PASS
			30~1000	-10.73	-64.24	≤-30.73	PASS
			1000~26500	-10.73	-49.67	≤-30.73	PASS
3DH5	Ant1	2402	Reference	-8.88	-8.88	---	PASS
			30~1000	-8.88	-69.26	≤-28.88	PASS
			1000~26500	-8.88	-55.82	≤-28.88	PASS
		2441	Reference	-8.61	-8.61	---	PASS
			30~1000	-8.61	-70.15	≤-28.61	PASS
			1000~26500	-8.61	-54.65	≤-28.61	PASS
		2480	Reference	-9.81	-9.81	---	PASS
			30~1000	-9.81	-70.44	≤-29.81	PASS
			1000~26500	-9.81	-49.5	≤-29.81	PASS

Test Graphs

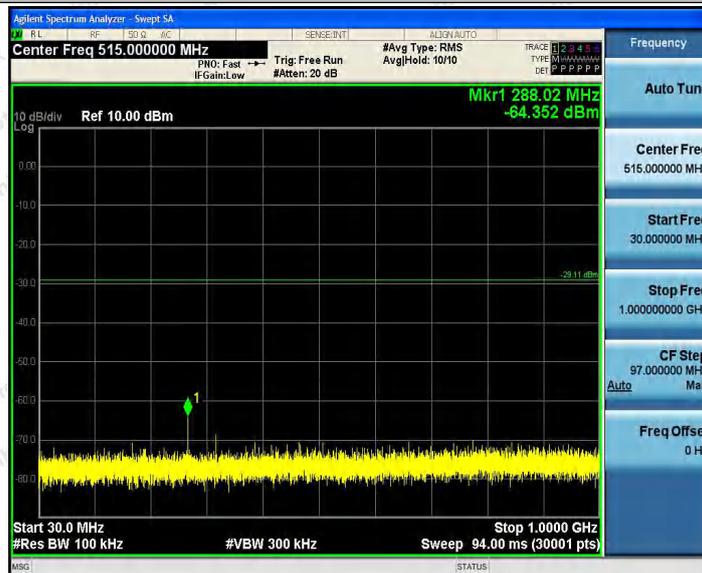




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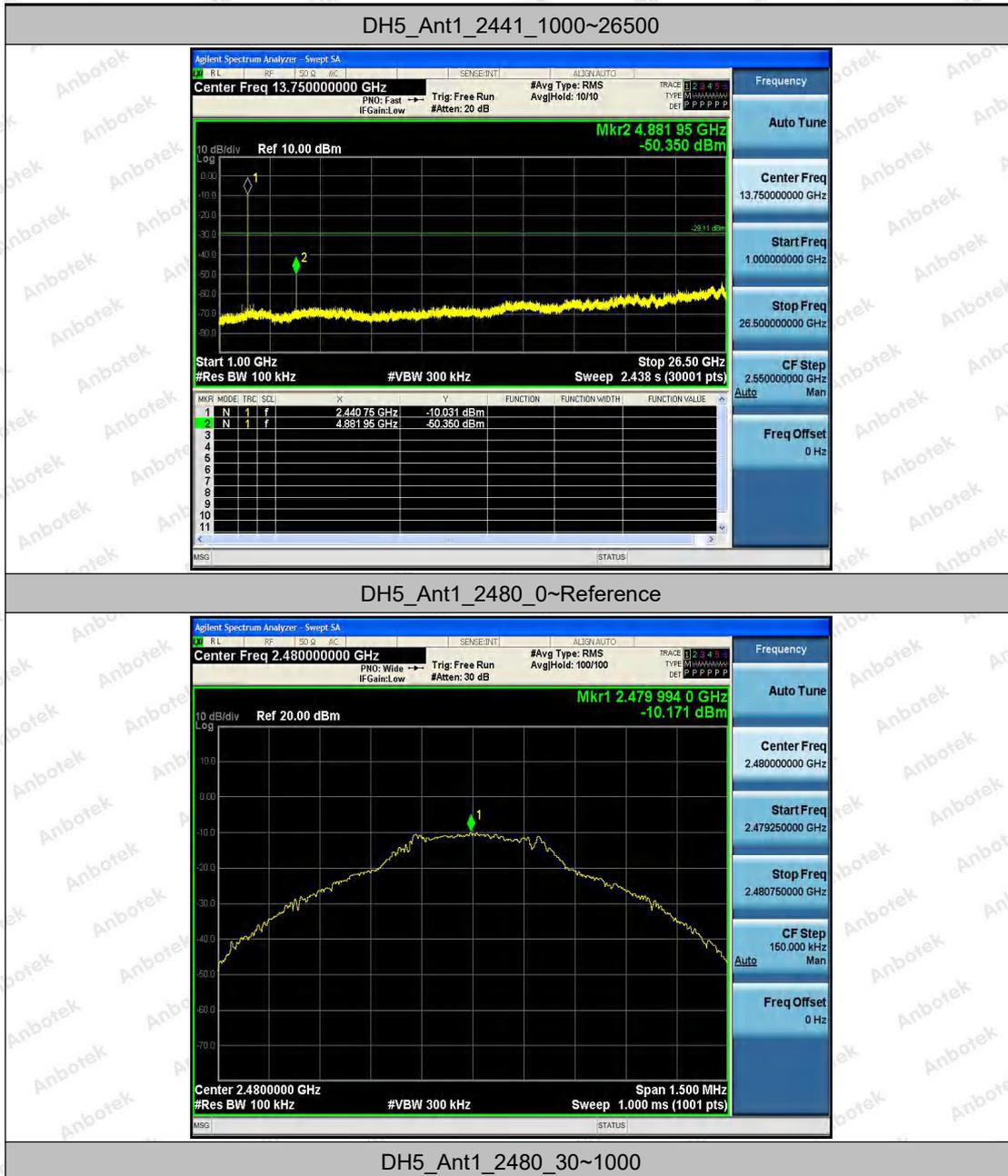


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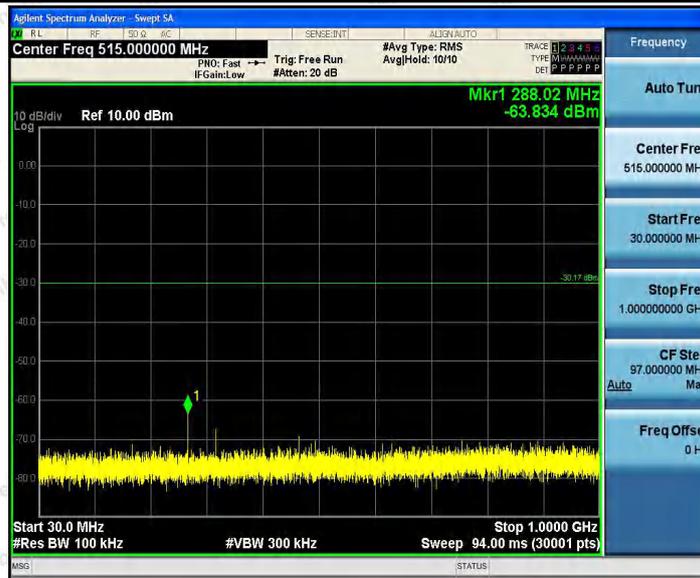
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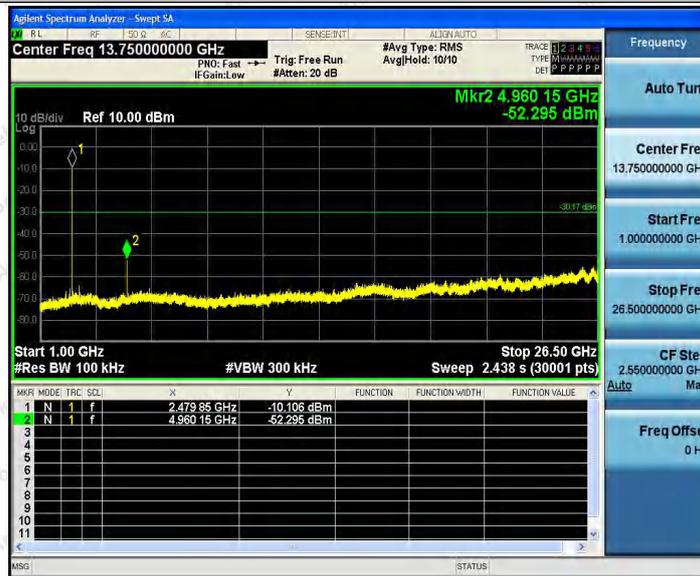
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DH5_Ant1_2480_1000~26500



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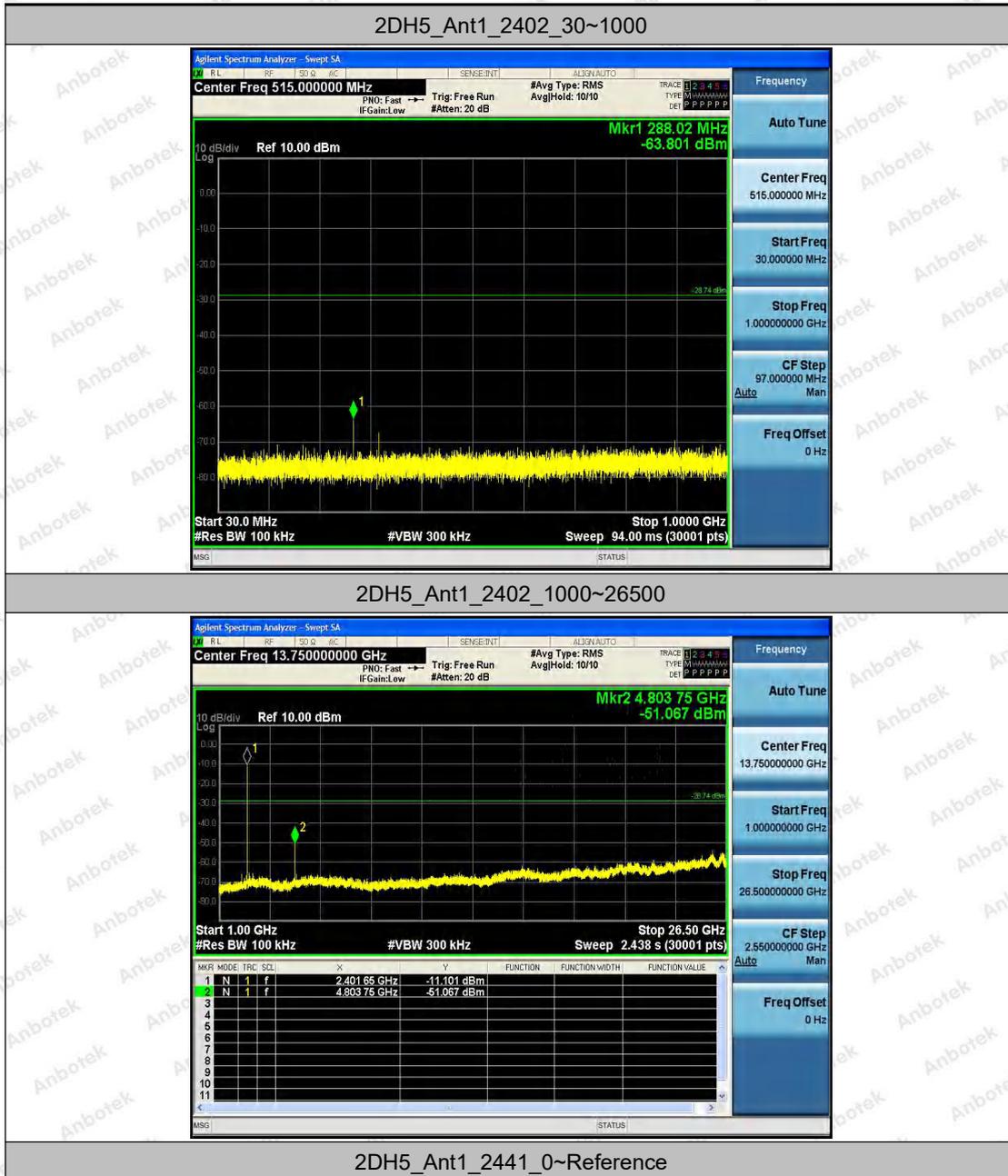


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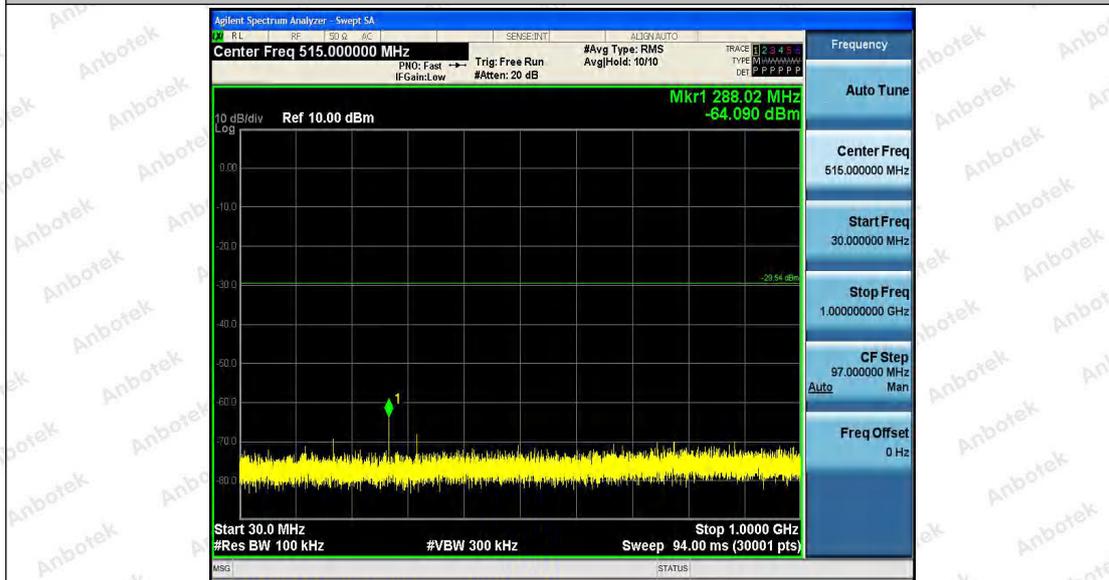
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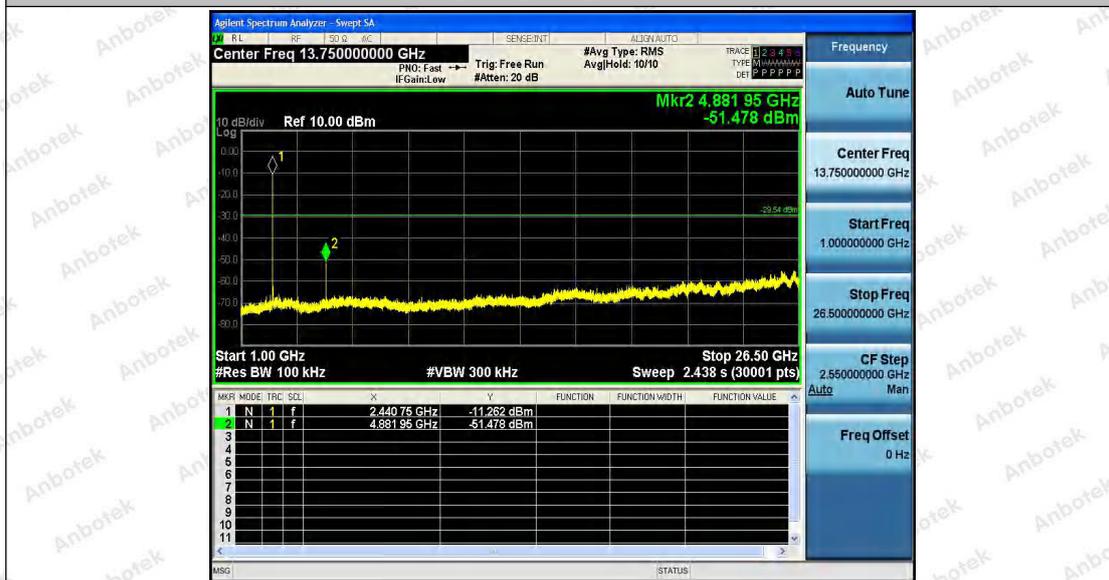
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

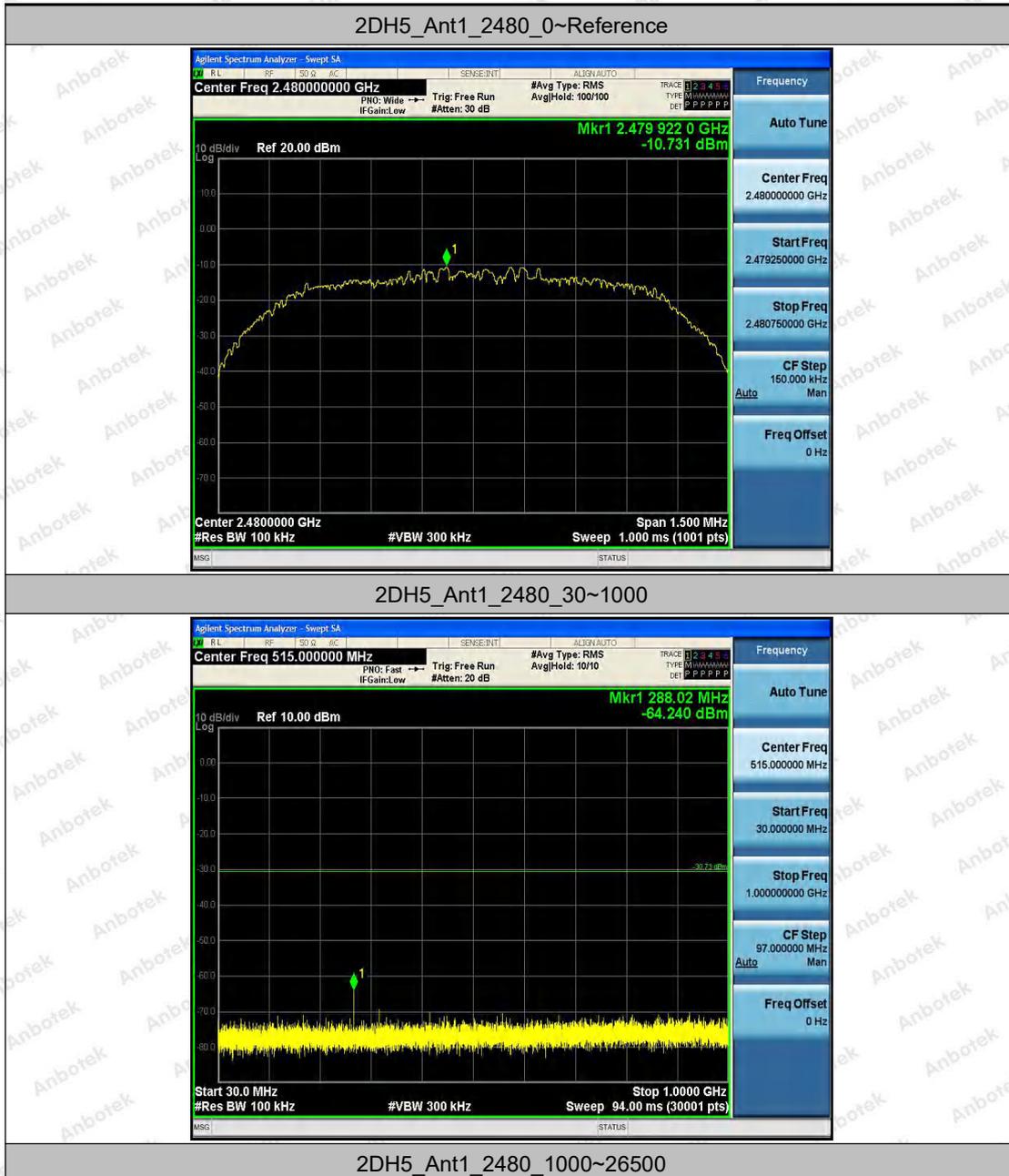


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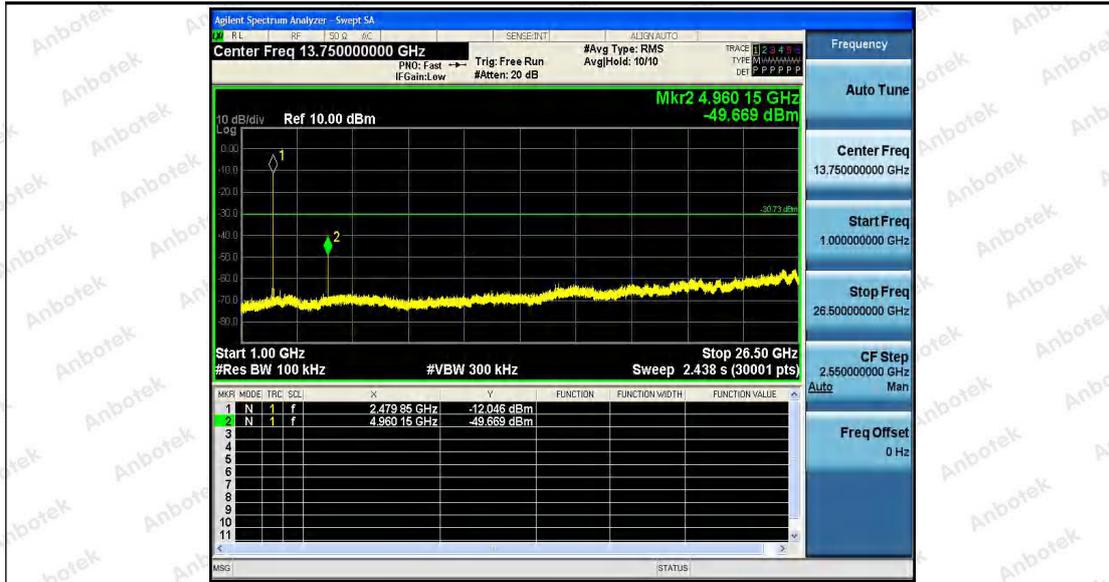
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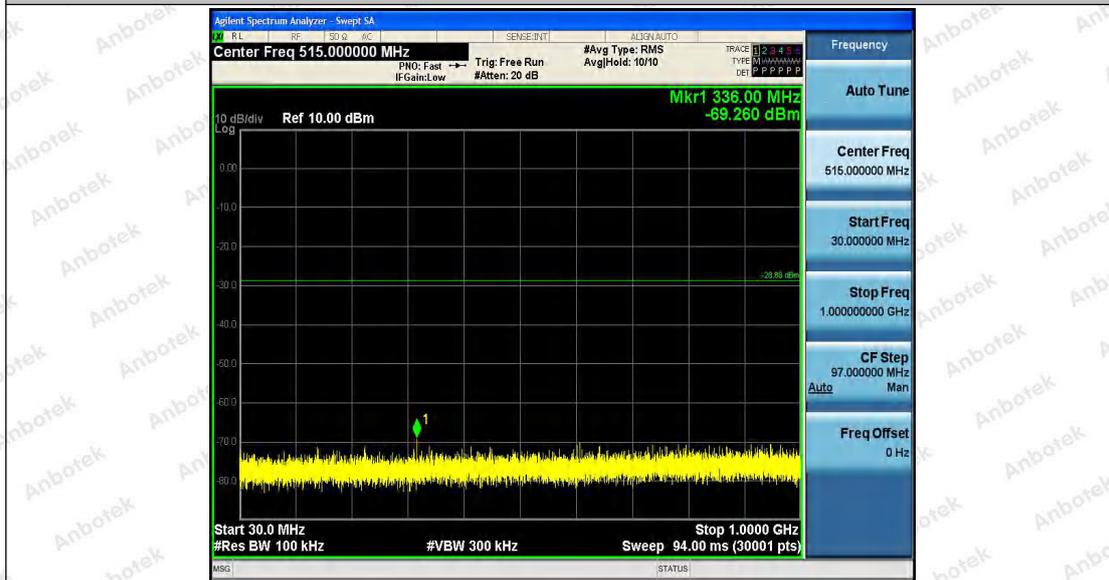
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



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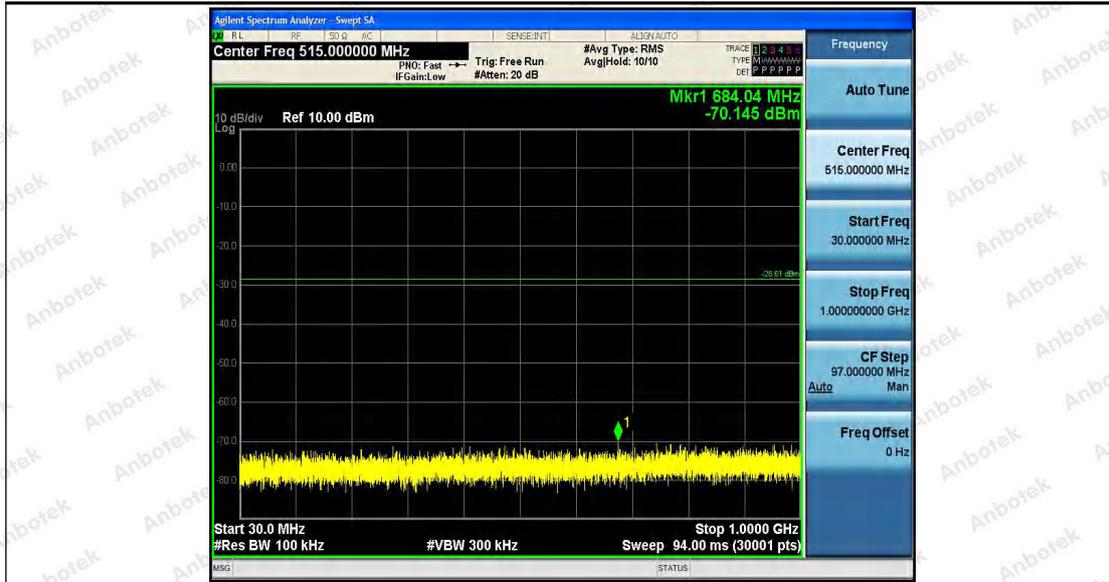


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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

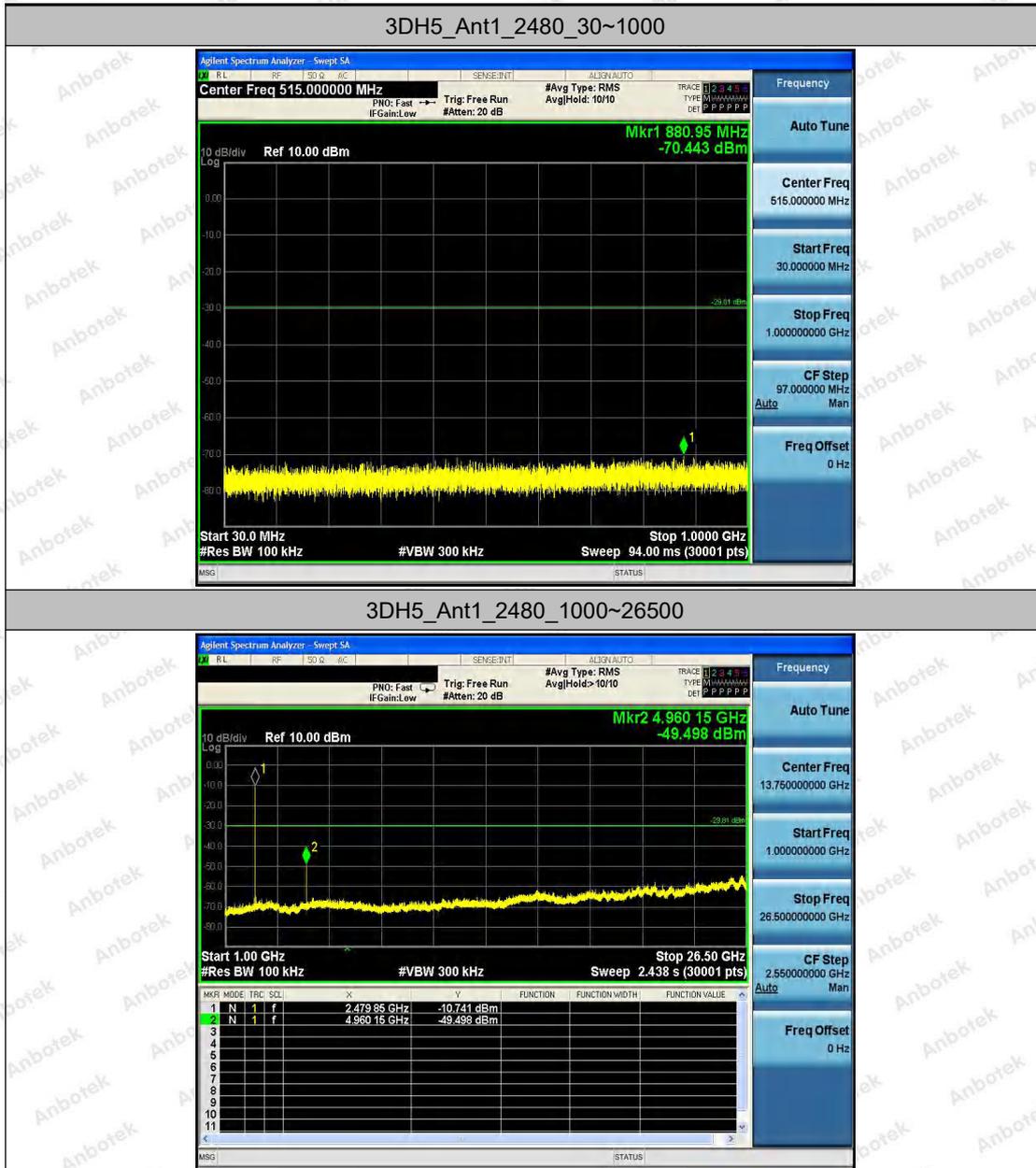


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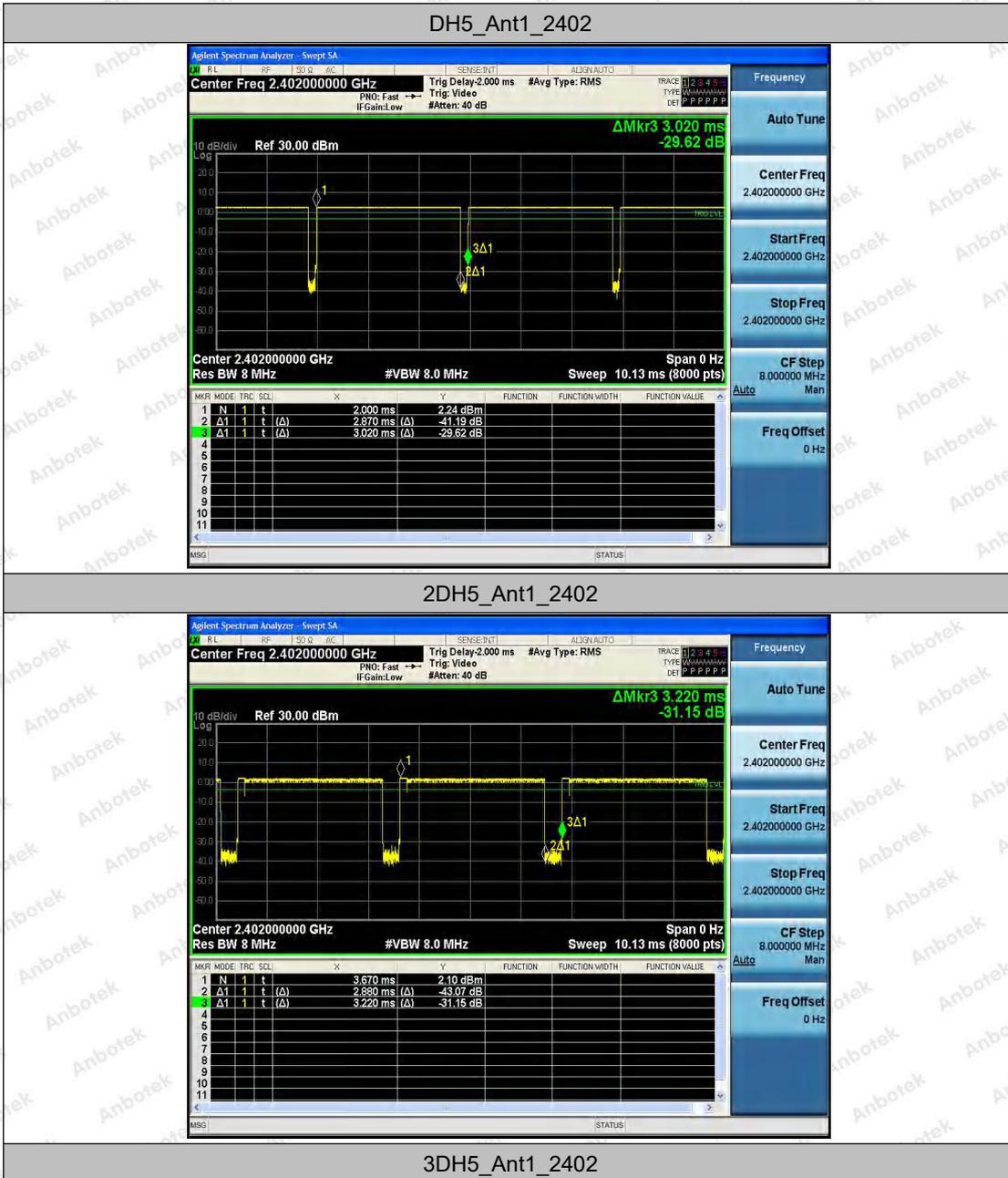
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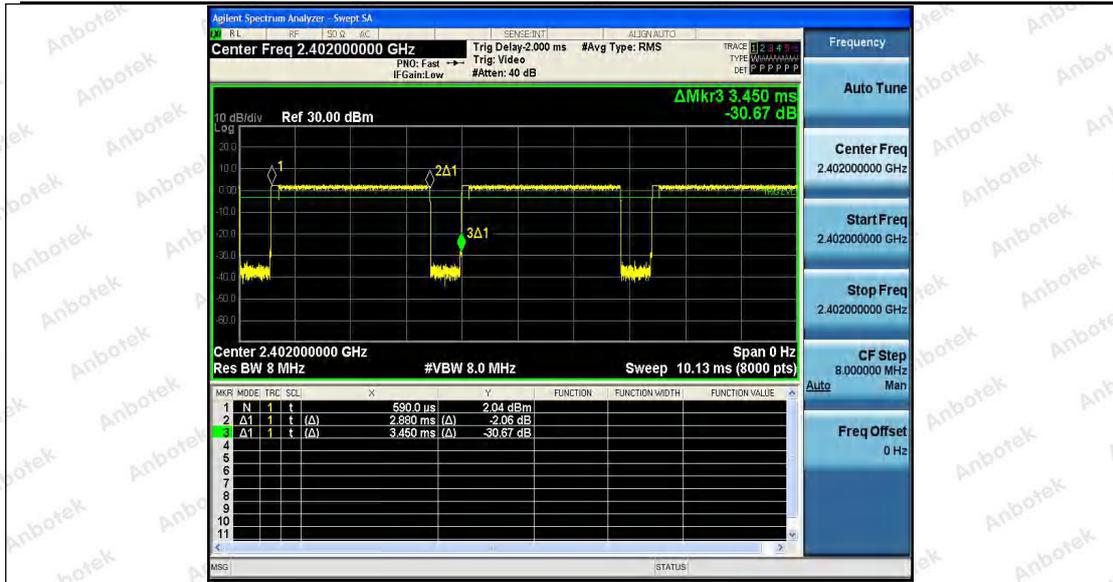
Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
DH5	Ant1	2402	2.87	3.02	0.9503	95.03	0.22	---	PASS
2DH5	Ant1	2402	2.88	3.22	0.8944	89.44	0.48	---	PASS
3DH5	Ant1	2402	2.88	3.45	0.8348	83.48	0.78	---	PASS

Test Graphs





---End---