

Appendix Test Data

Report No.:	18220WC10141401	Test Date:	2021.8.31
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

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.125	2401.433	2402.558	---	PASS
		2441	1.131	2440.433	2441.564	---	PASS
		2480	1.134	2479.439	2480.573	---	PASS
2DH5	Ant1	2402	1.374	2401.304	2402.678	---	PASS
		2441	1.371	2440.313	2441.684	---	PASS
		2480	1.356	2479.319	2480.675	---	PASS
3DH5	Ant1	2402	1.368	2401.322	2402.690	---	PASS
		2441	1.359	2440.313	2441.672	---	PASS
		2480	1.356	2479.328	2480.684	---	PASS

Test Graphs





2DH5_Ant1_2402



2DH5_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	0.87779	2401.56 1	2402.438	---	PASS
		2441	0.89068	2440.55 5	2441.445	---	PASS
		2480	0.88603	2479.55 5	2480.441	---	PASS
2DH5	Ant1	2402	1.1997	2401.40 3	2402.603	---	PASS
		2441	1.1947	2440.40 3	2441.598	---	PASS
		2480	1.1966	2479.40 2	2480.599	---	PASS
3DH5	Ant1	2402	1.2167	2401.38 1	2402.598	---	PASS
		2441	1.2091	2440.38 7	2441.596	---	PASS
		2480	1.2044	2479.38 9	2480.593	---	PASS

Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441



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3DH5_Ant1_2480



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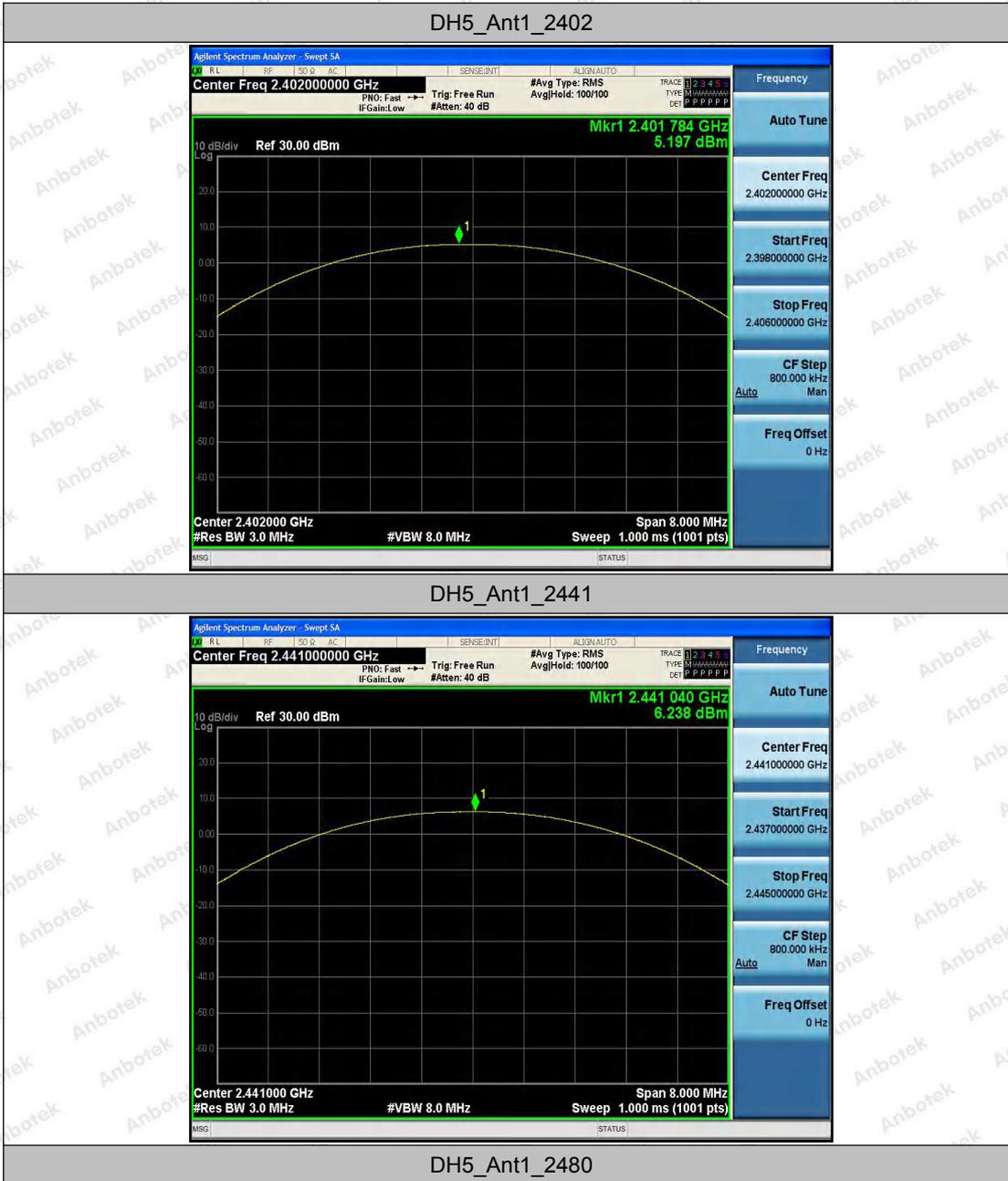
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	5.2	≤20.97	PASS
		2441	6.24	≤20.97	PASS
		2480	6.95	≤20.97	PASS
2DH5	Ant1	2402	4.68	≤20.97	PASS
		2441	5.59	≤20.97	PASS
		2480	6.27	≤20.97	PASS
3DH5	Ant1	2402	4.56	≤20.97	PASS
		2441	5.36	≤20.97	PASS
		2480	6.26	≤20.97	PASS

Test Graphs



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2DH5_Ant1_2402



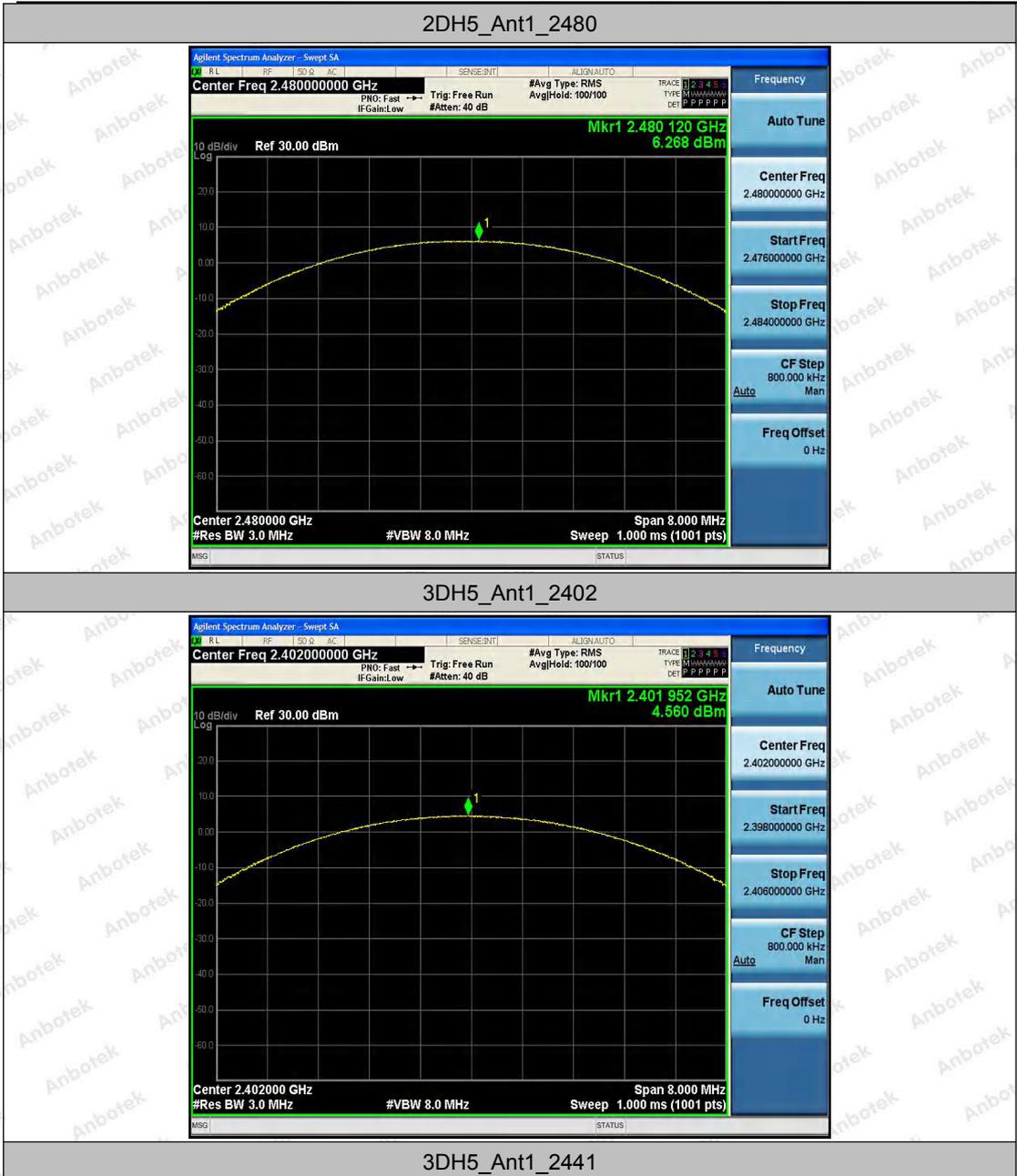
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3DH5_Ant1_2480



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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.86	≥0.756	PASS
2DH5	Ant1	Hop	1.002	≥0.916	PASS
3DH5	Ant1	Hop	1.02	≥0.912	PASS

Test Graphs



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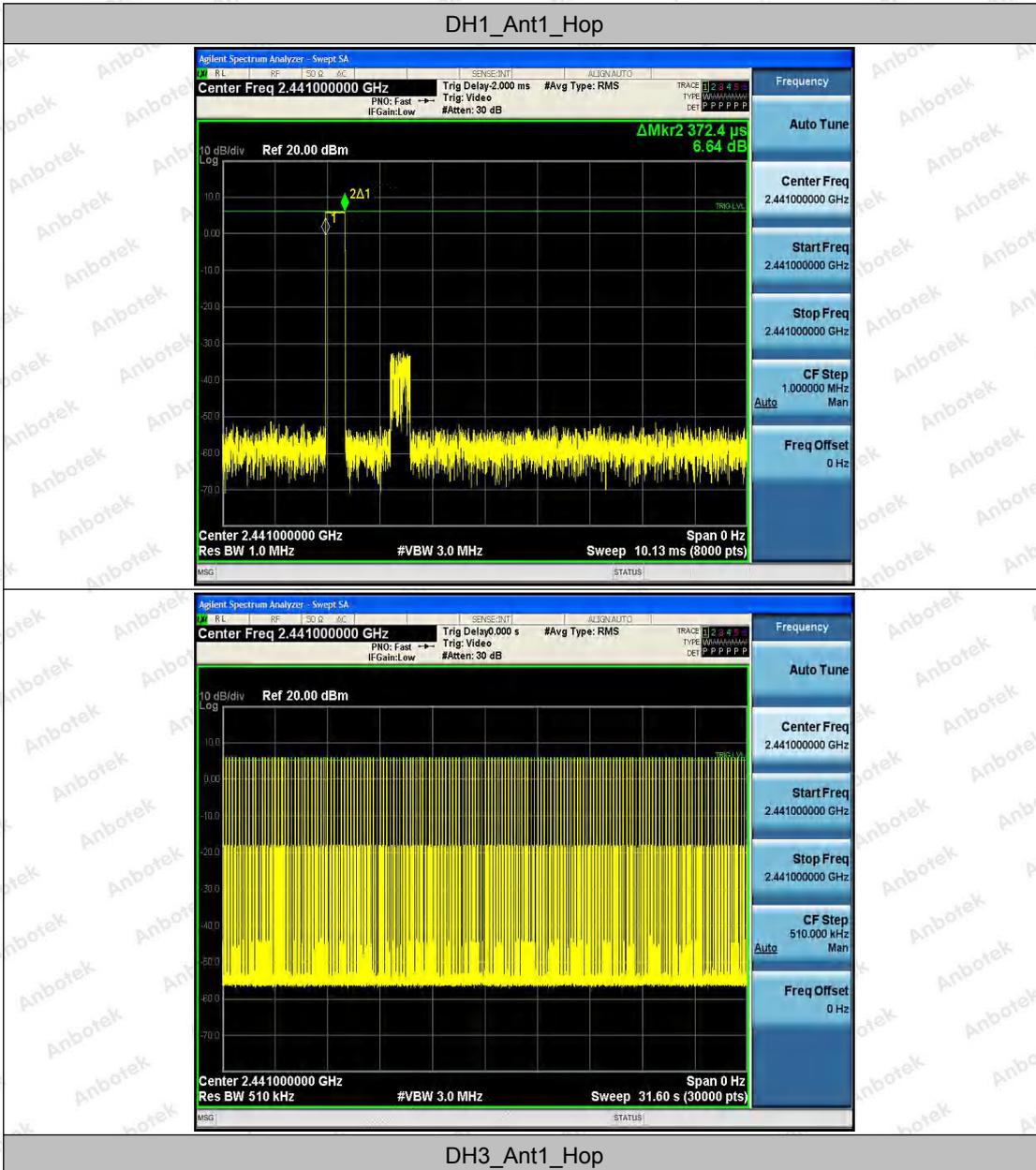
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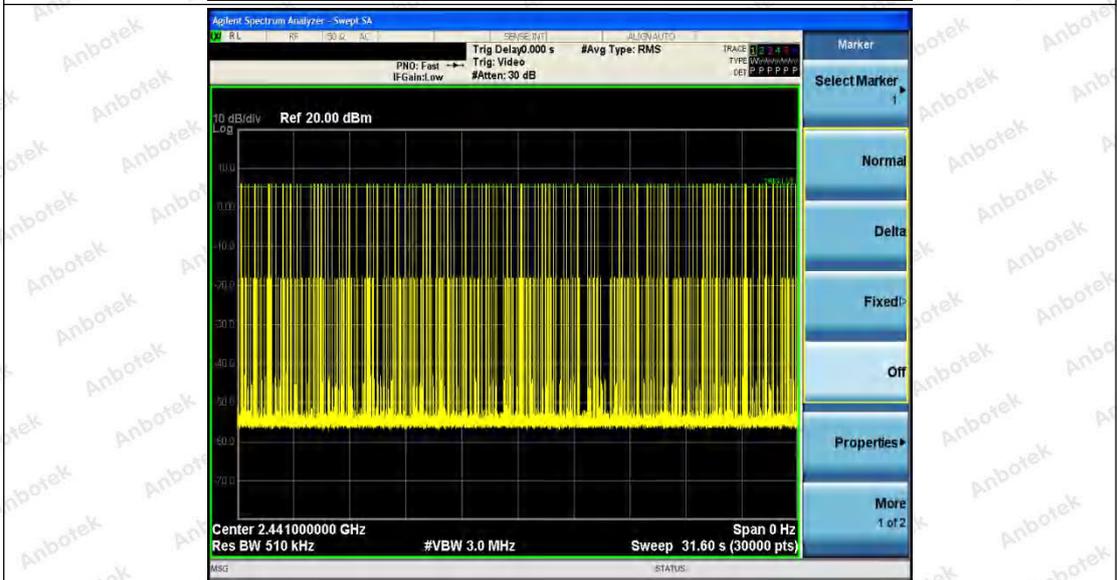
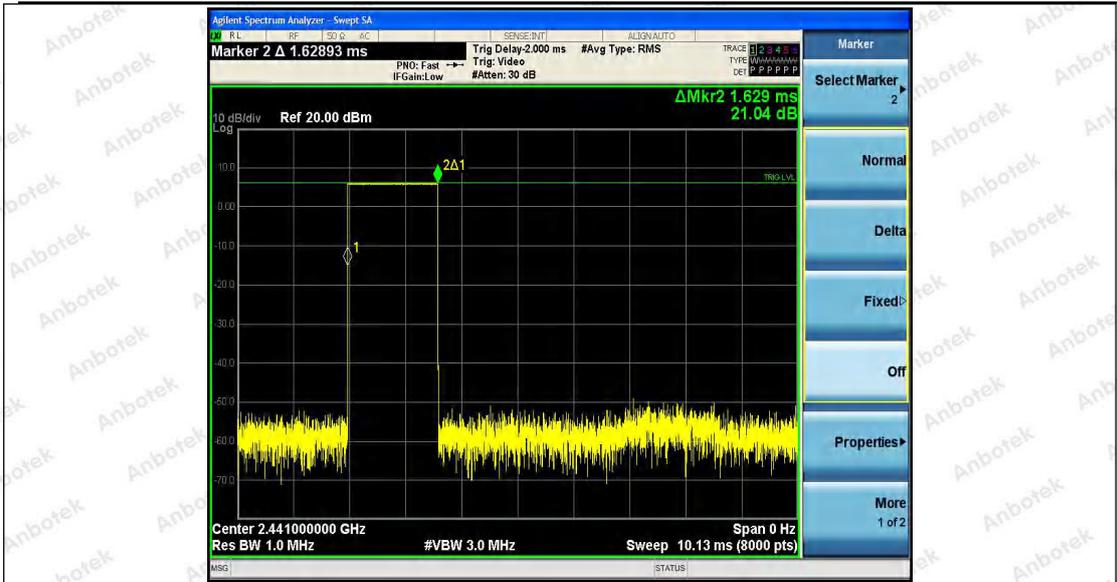
Appendix E: Time of occupancy

Test Result

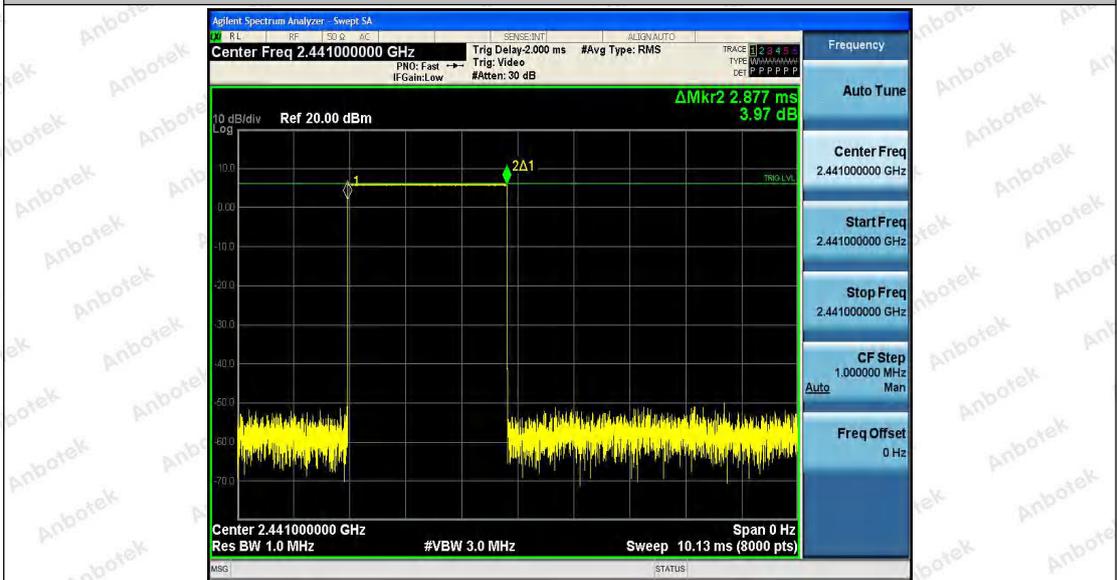
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	313	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	160	0.261	≤0.4	PASS
DH5	Ant1	Hop	2.88	101	0.291	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	159	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.88	113	0.325	≤0.4	PASS
3DH1	Ant1	Hop	0.38	314	0.12	≤0.4	PASS
3DH3	Ant1	Hop	1.63	156	0.254	≤0.4	PASS
3DH5	Ant1	Hop	2.88	108	0.311	≤0.4	PASS

Test Graphs





DH5_Ant1_Hop

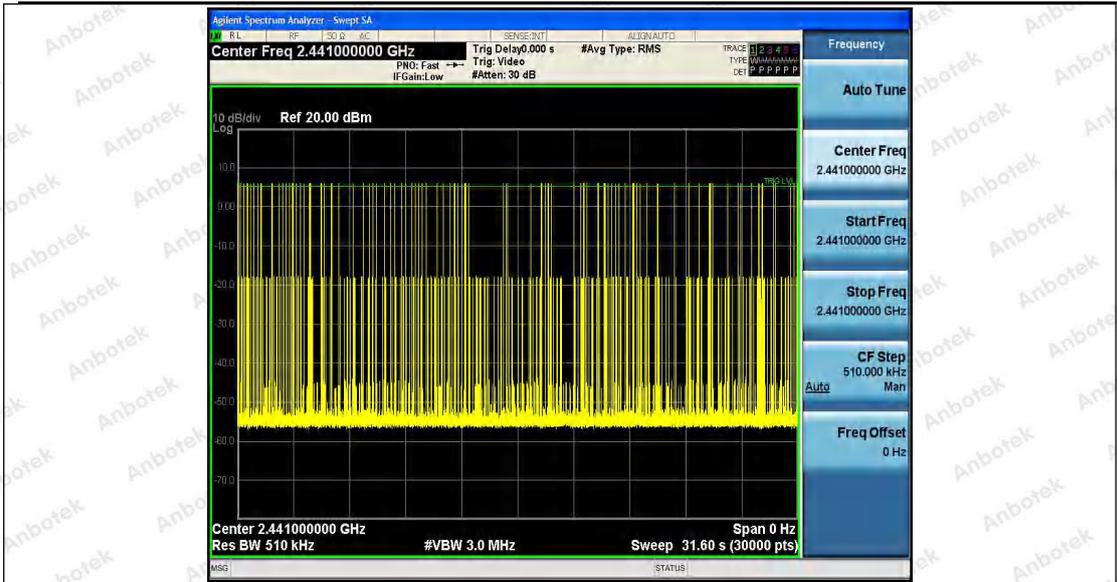


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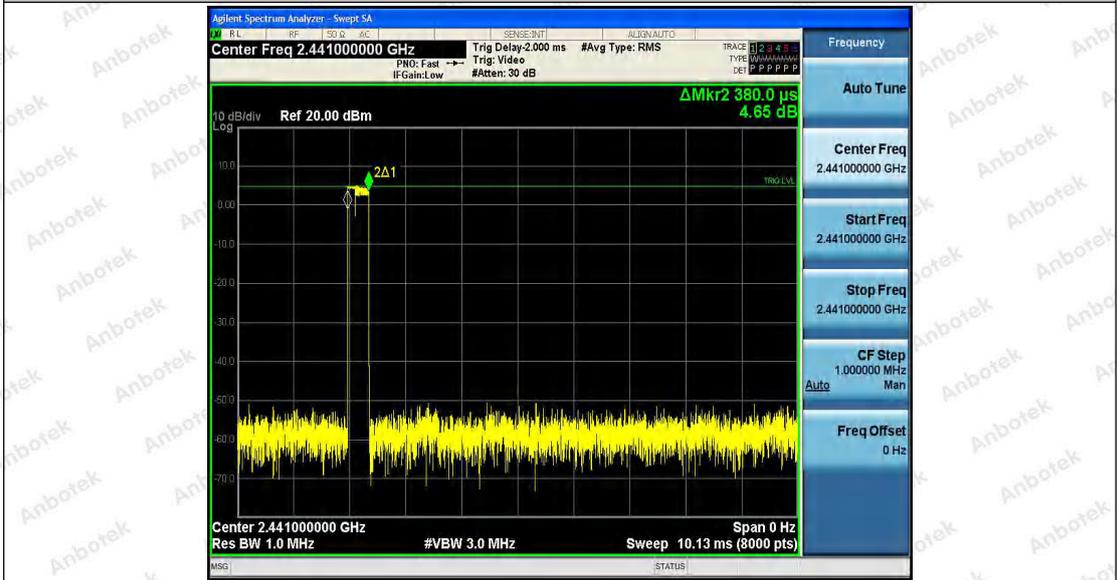
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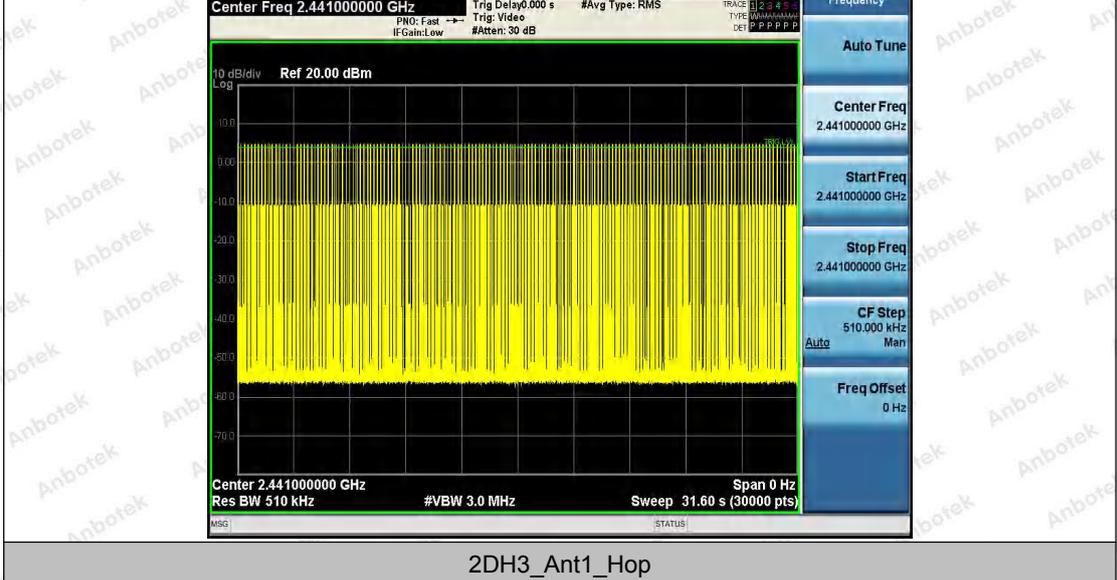
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2DH1_Ant1_Hop



2DH1_Ant1_Hop



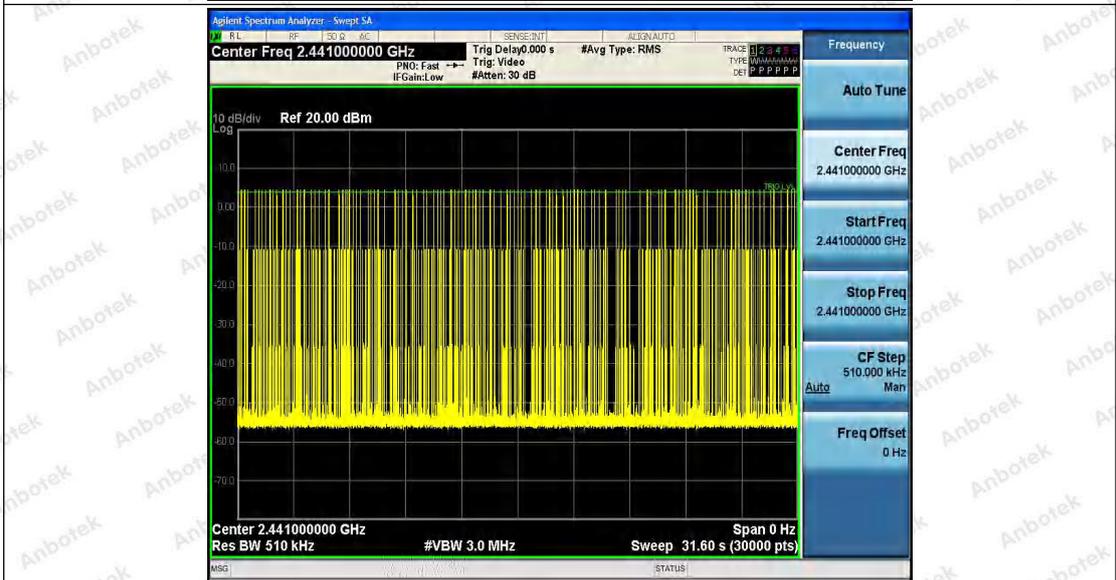
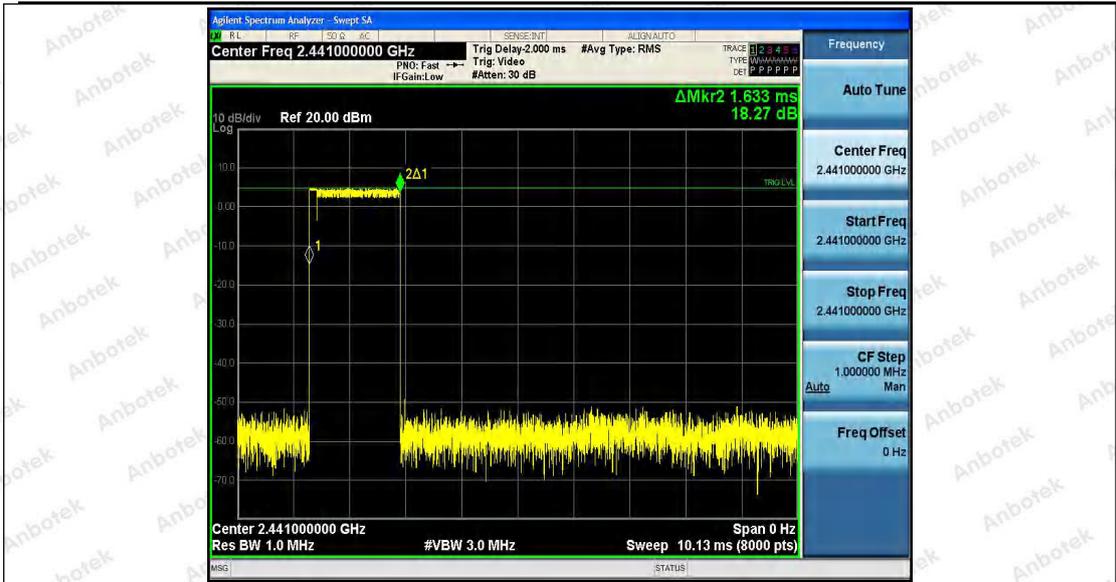
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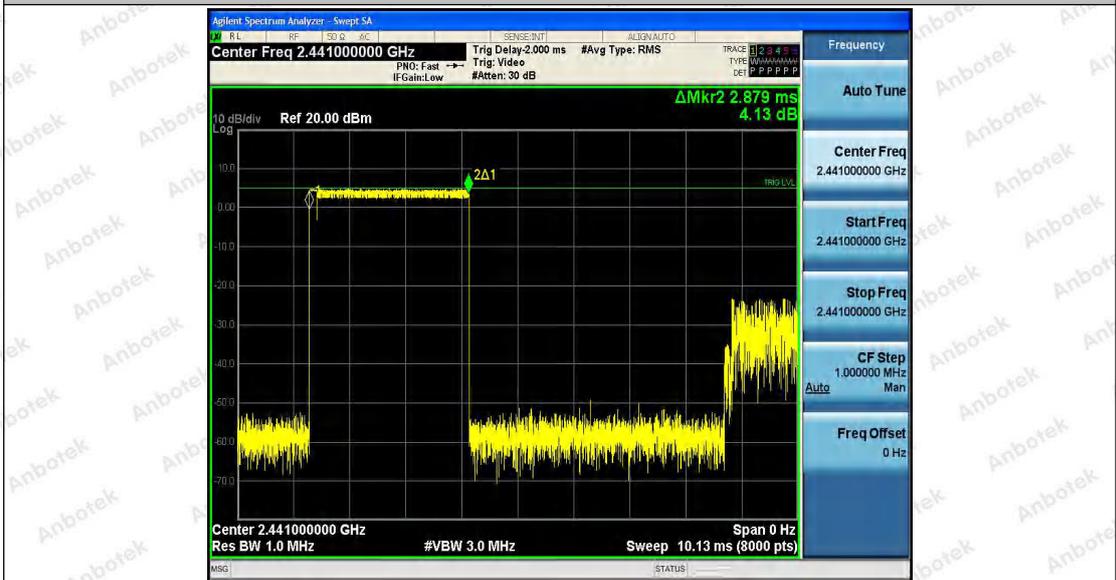
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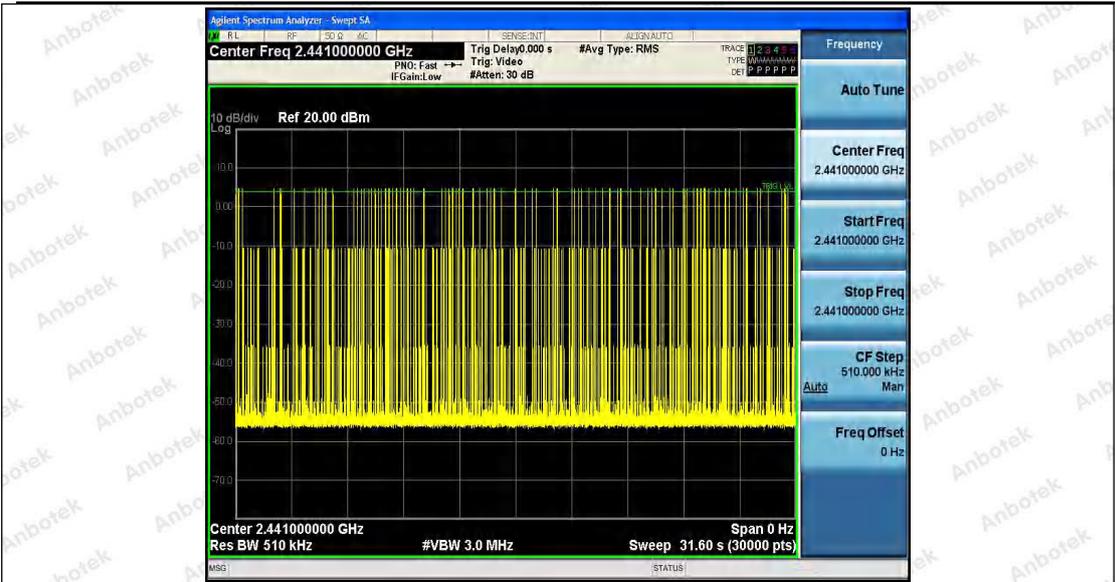


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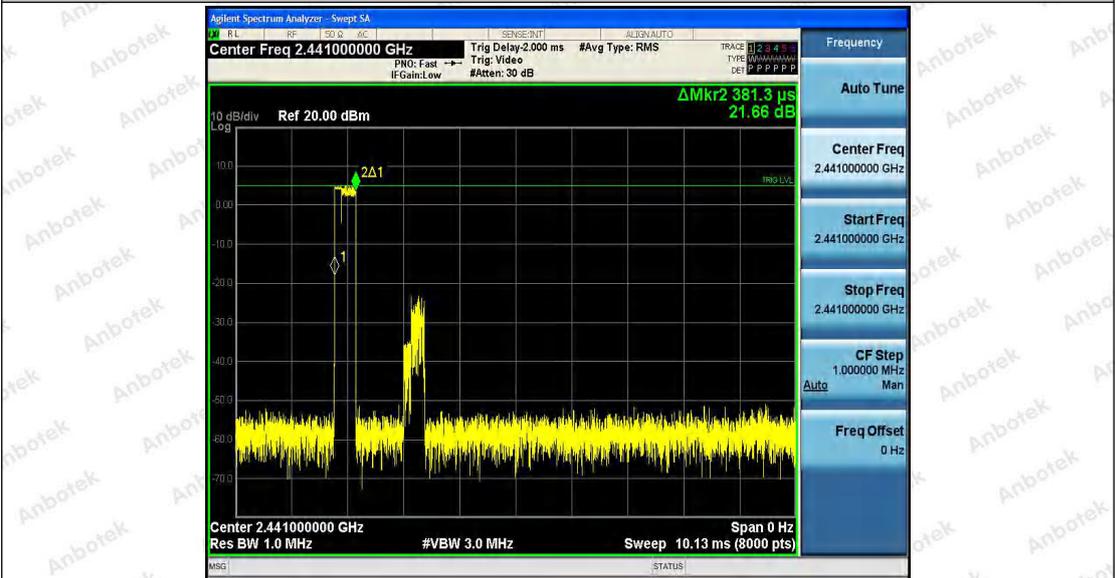
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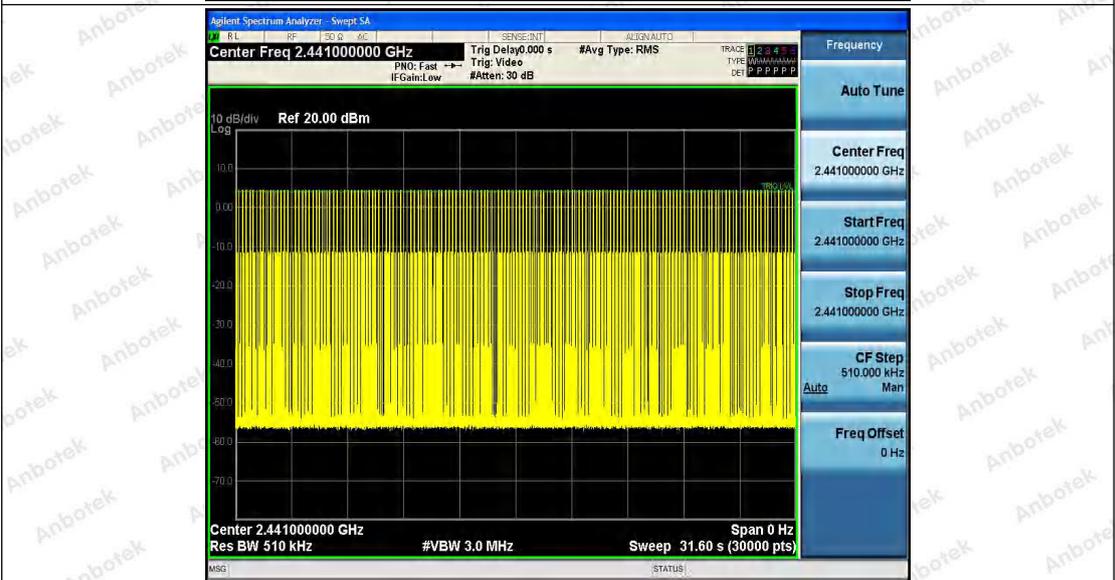
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3DH1_Ant1_Hop



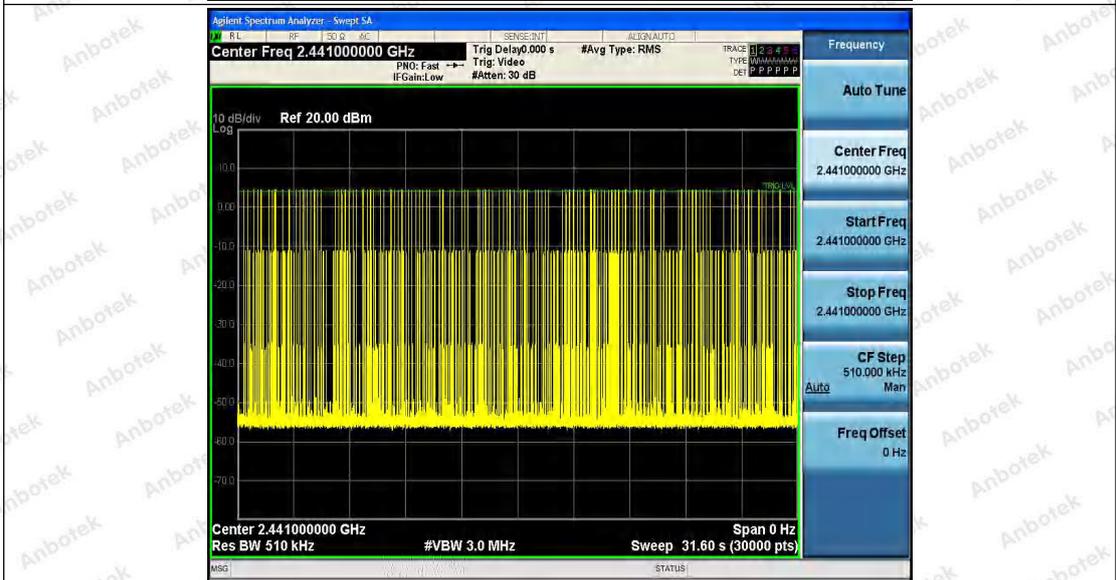
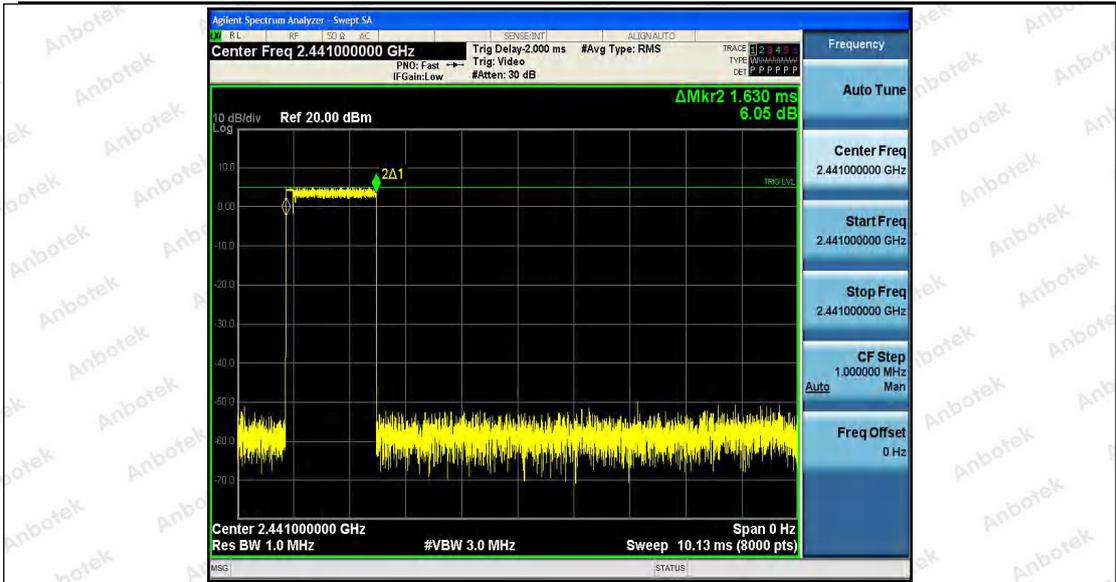
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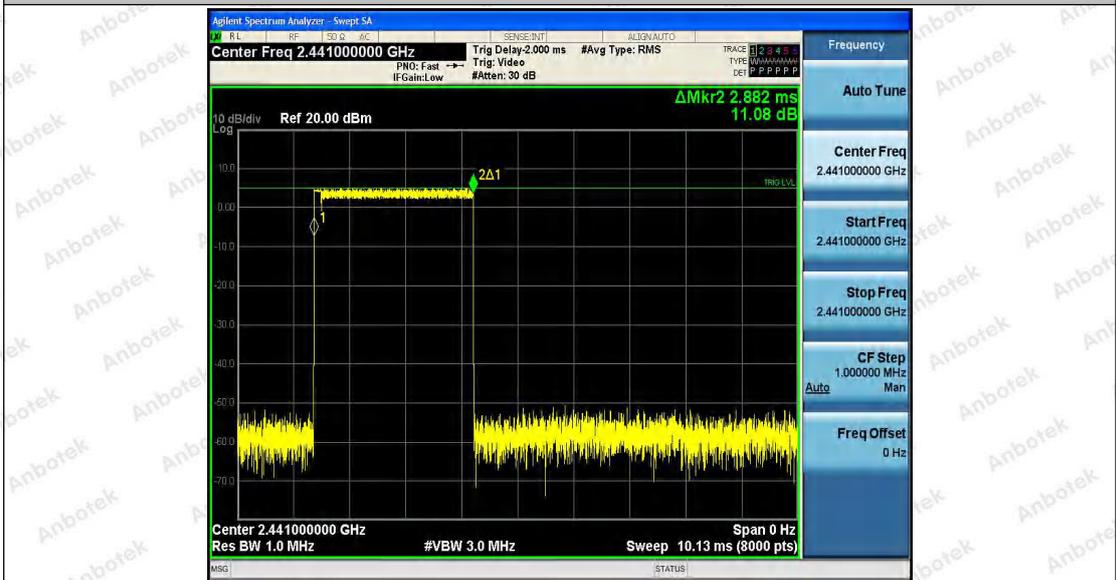
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3DH5_Ant1_Hop

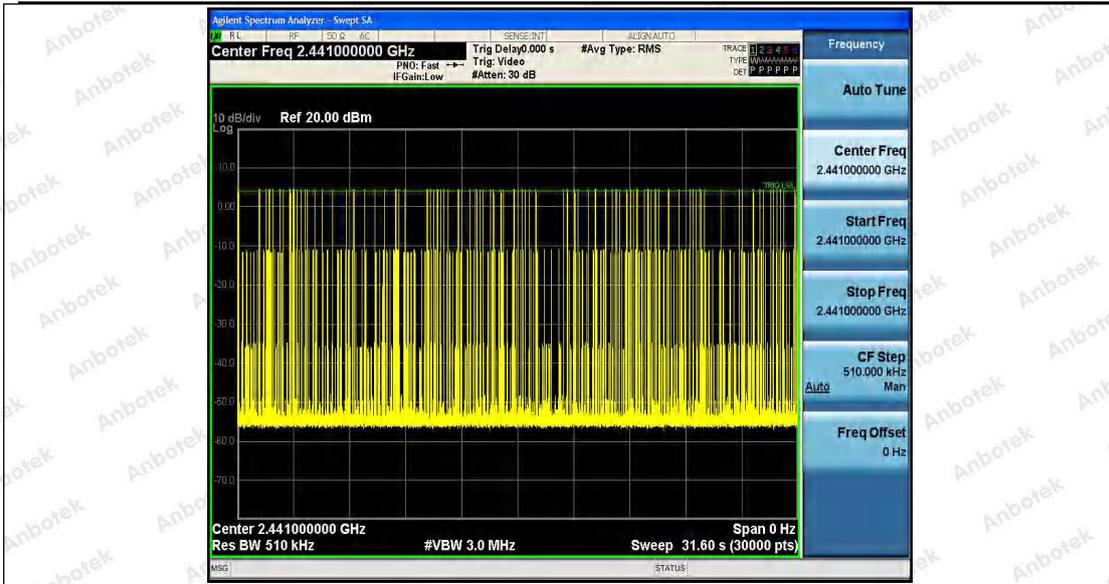


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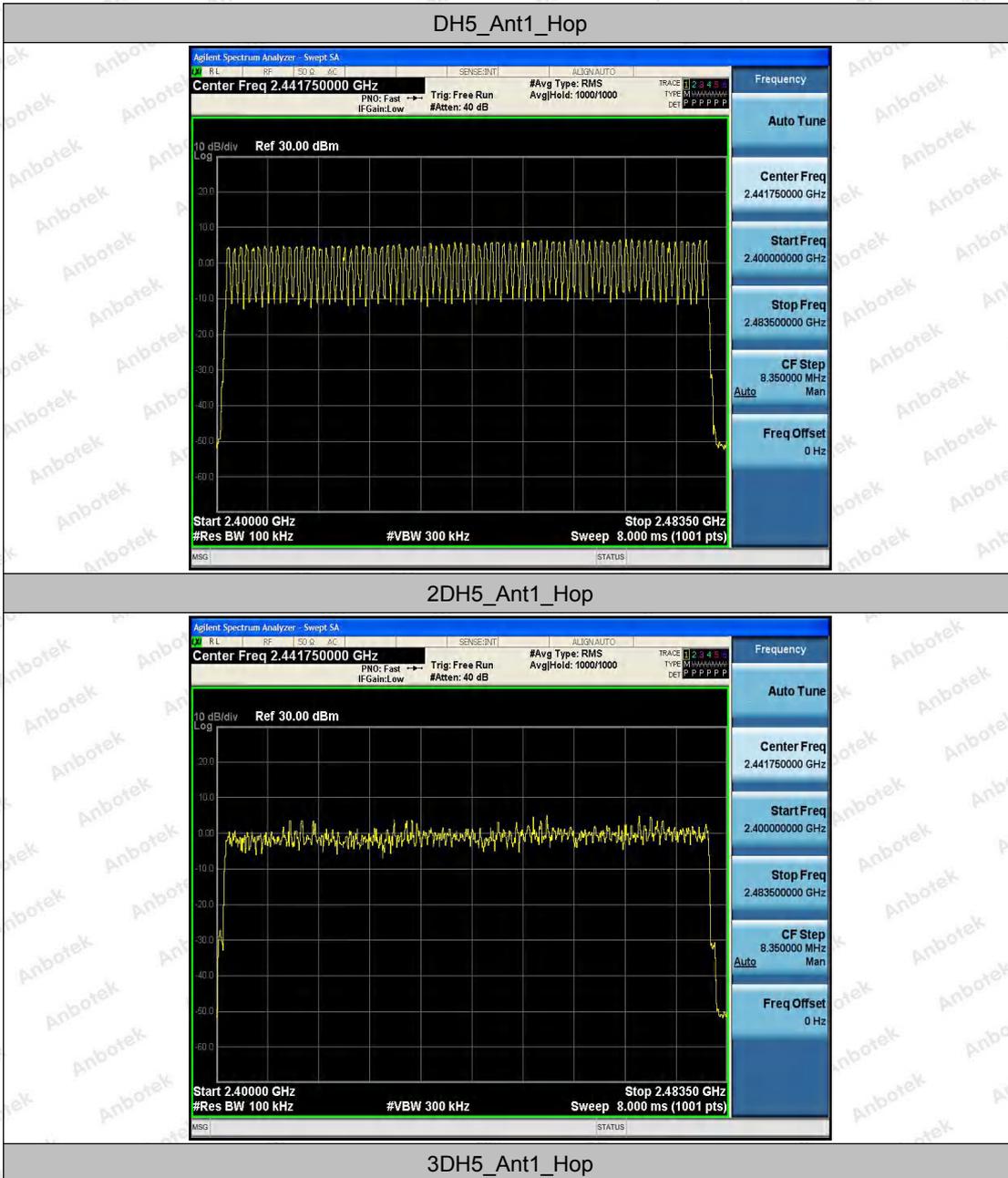
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Appendix F: Number of hopping channels

Test Result

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

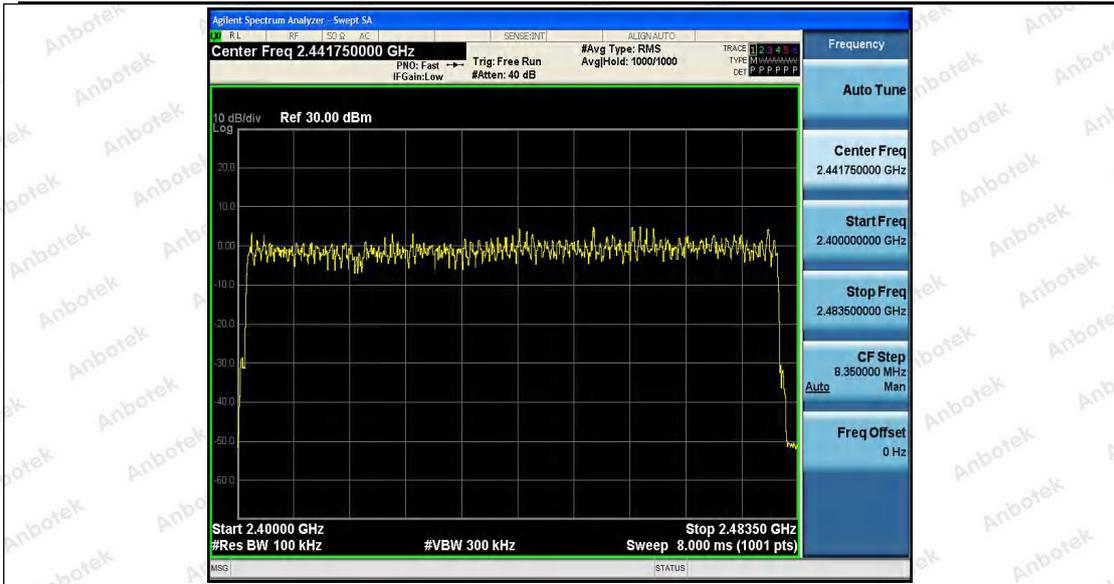


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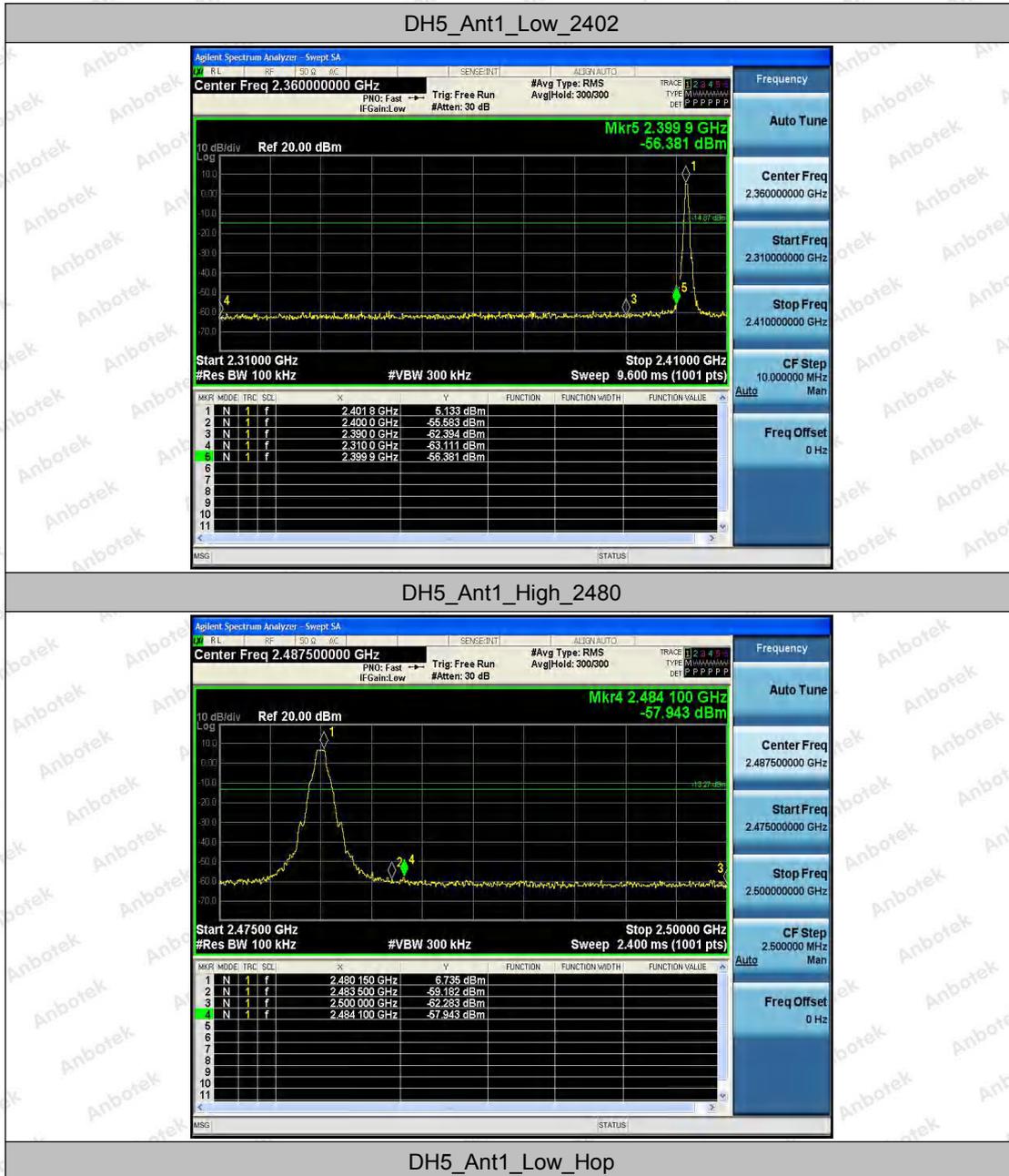
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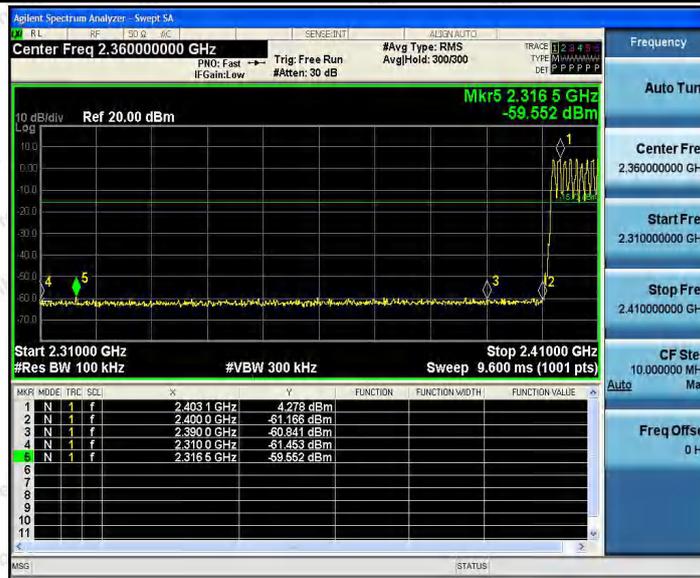
Appendix G: Band edge measurements

Test Result

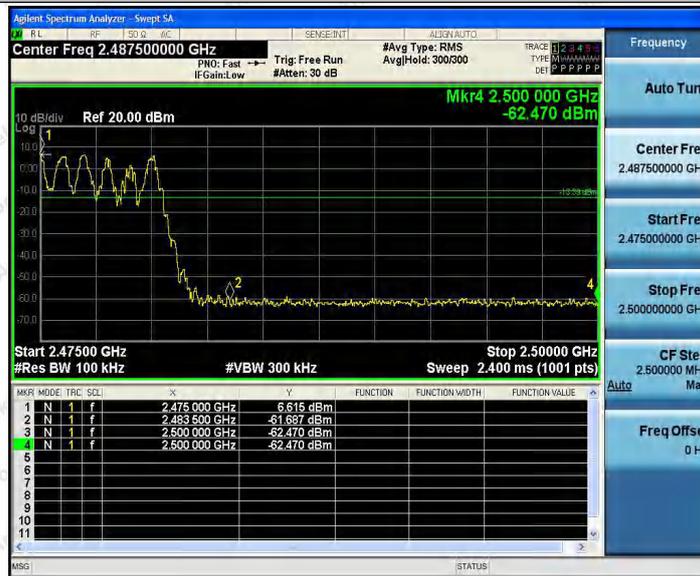
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	5.13	-56.38	≤-14.87	PASS
		High	2480	6.74	-57.94	≤-13.27	PASS
		Low	Hop	4.28	-59.55	≤-15.72	PASS
		High	Hop	6.62	-62.47	≤-13.39	PASS
2DH5	Ant1	Low	2402	3.77	-51.07	≤-16.24	PASS
		High	2480	5.31	-57.85	≤-14.69	PASS
		Low	Hop	1.06	-59.42	≤-18.94	PASS
		High	Hop	5.03	-63.09	≤-14.97	PASS
3DH5	Ant1	Low	2402	3.80	-52.39	≤-16.2	PASS
		High	2480	5.22	-56.31	≤-14.79	PASS
		Low	Hop	1.06	-58.83	≤-18.94	PASS
		High	Hop	5.11	-61.87	≤-14.89	PASS

Test Graphs

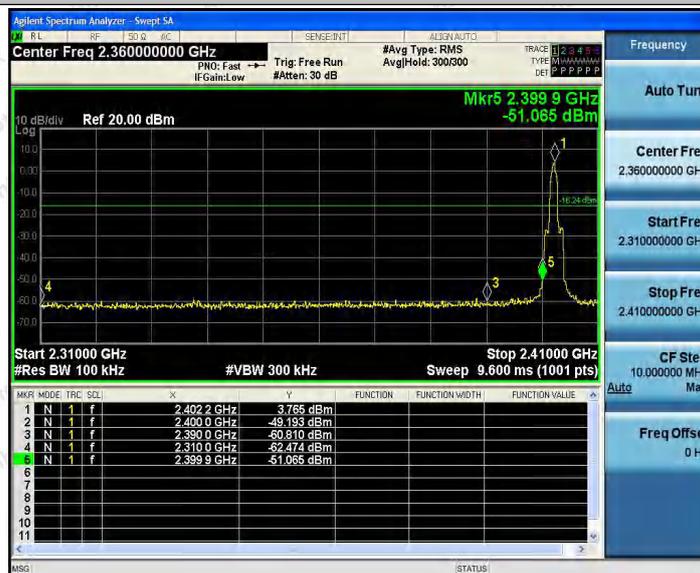




DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402

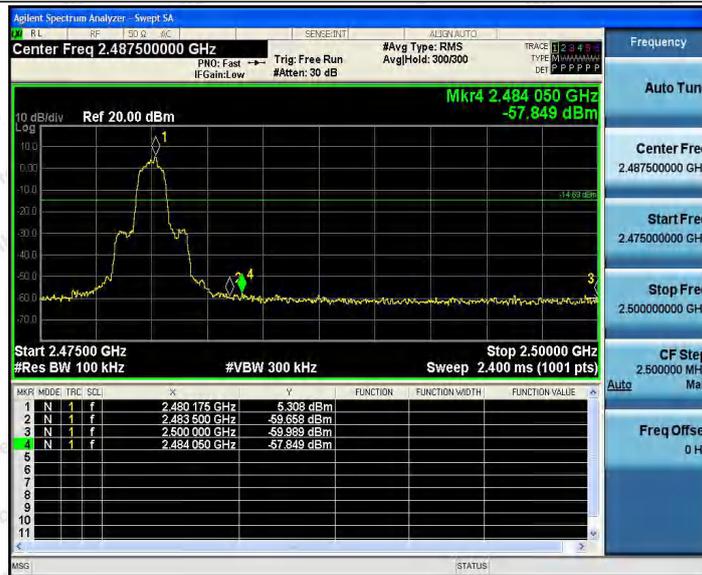


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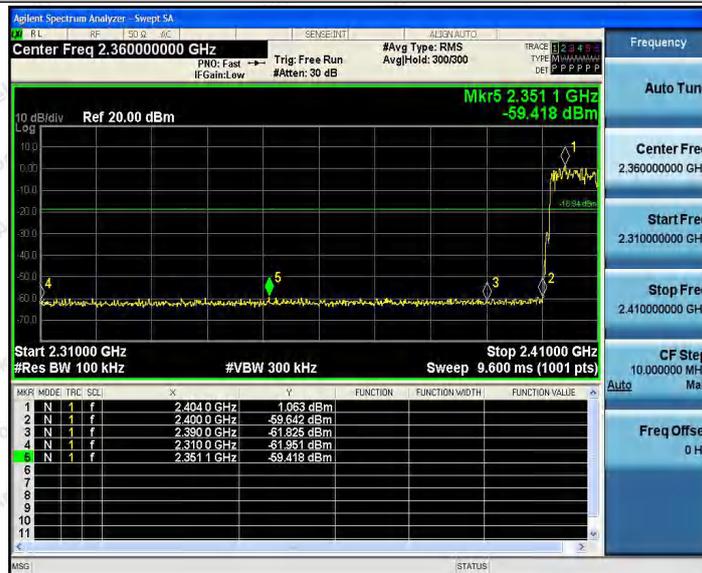
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



2DH5_Ant1_High_Hop

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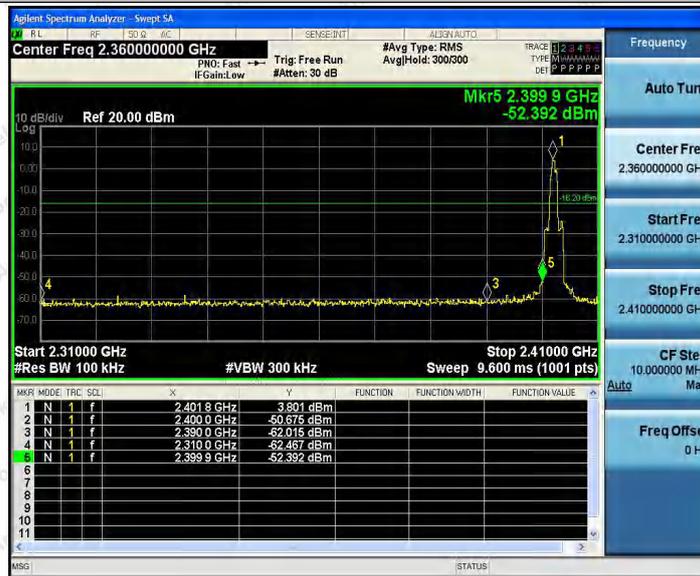
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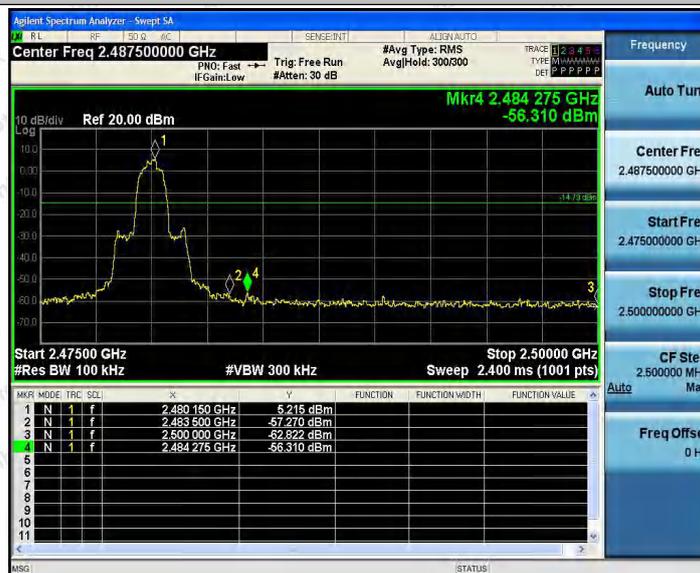
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



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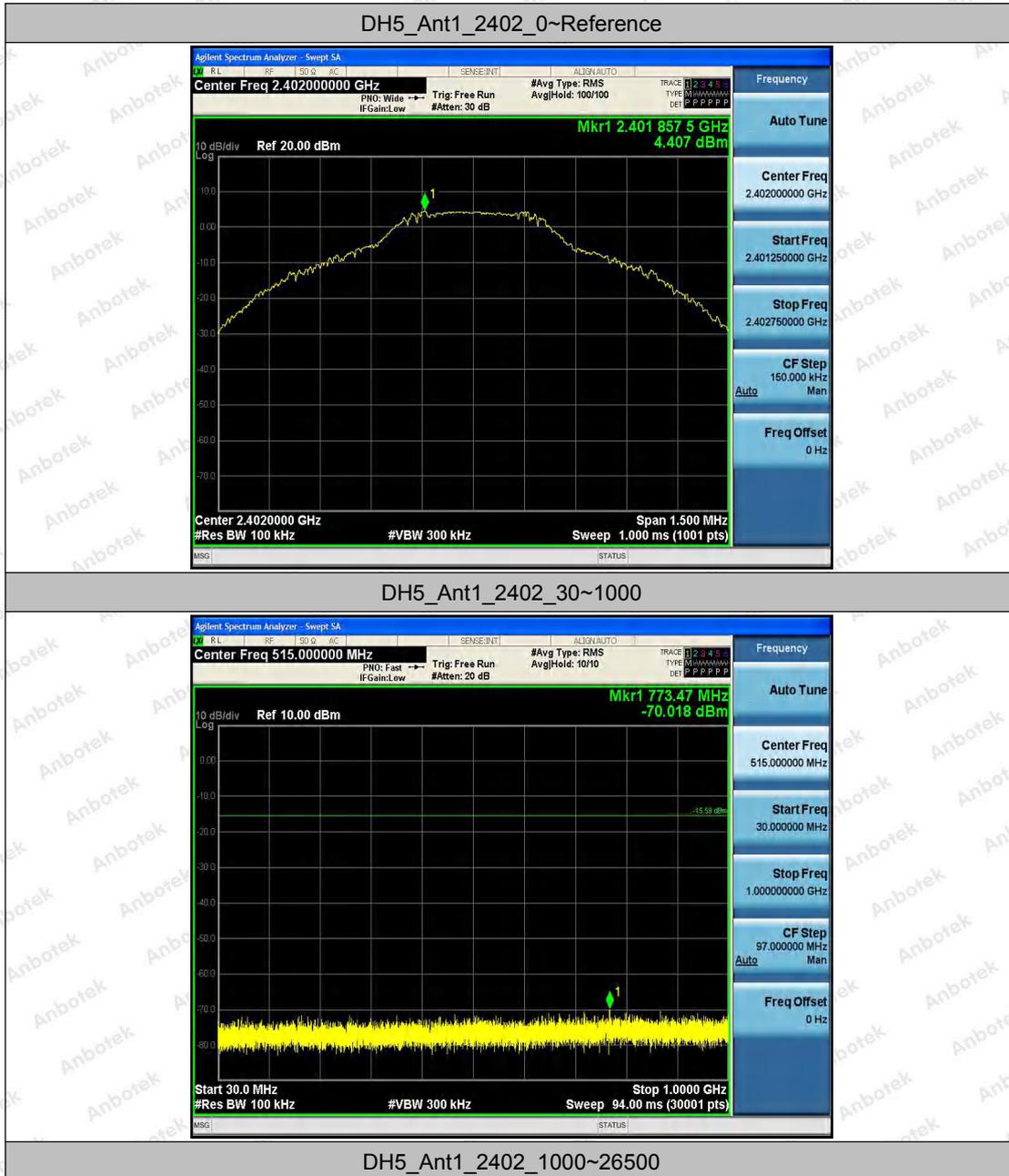
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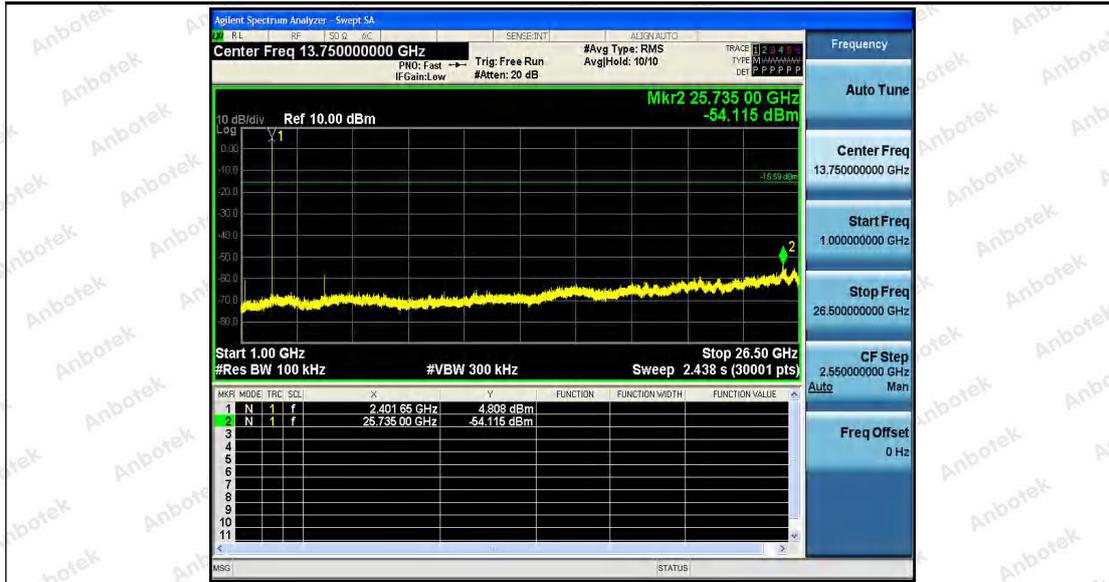
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	4.41	4.41	---	PASS
			30~1000	4.41	-70.02	≤-15.59	PASS
			1000~26500	4.41	-54.12	≤-15.59	PASS
		2441	Reference	5.48	5.48	---	PASS
			30~1000	5.48	-70.11	≤-14.52	PASS
			1000~26500	5.48	-54.69	≤-14.52	PASS
		2480	Reference	6.22	6.22	---	PASS
			30~1000	6.22	-69.73	≤-13.78	PASS
			1000~26500	6.22	-54.65	≤-13.78	PASS
2DH5	Ant1	2402	Reference	3.69	3.69	---	PASS
			30~1000	3.69	-70.1	≤-16.31	PASS
			1000~26500	3.69	-55.43	≤-16.31	PASS
		2441	Reference	4.26	4.26	---	PASS
			30~1000	4.26	-70.23	≤-15.74	PASS
			1000~26500	4.26	-54.36	≤-15.74	PASS
		2480	Reference	5.25	5.25	---	PASS
			30~1000	5.25	-70.06	≤-14.75	PASS
			1000~26500	5.25	-55.29	≤-14.75	PASS
3DH5	Ant1	2402	Reference	3.74	3.74	---	PASS
			30~1000	3.74	-70.53	≤-16.26	PASS
			1000~26500	3.74	-54.73	≤-16.26	PASS
		2441	Reference	4.45	4.45	---	PASS
			30~1000	4.45	-70.22	≤-15.55	PASS
			1000~26500	4.45	-55.5	≤-15.55	PASS
		2480	Reference	5.32	5.32	---	PASS
			30~1000	5.32	-70.19	≤-14.68	PASS
			1000~26500	5.32	-54.47	≤-14.68	PASS

Test Graphs





DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

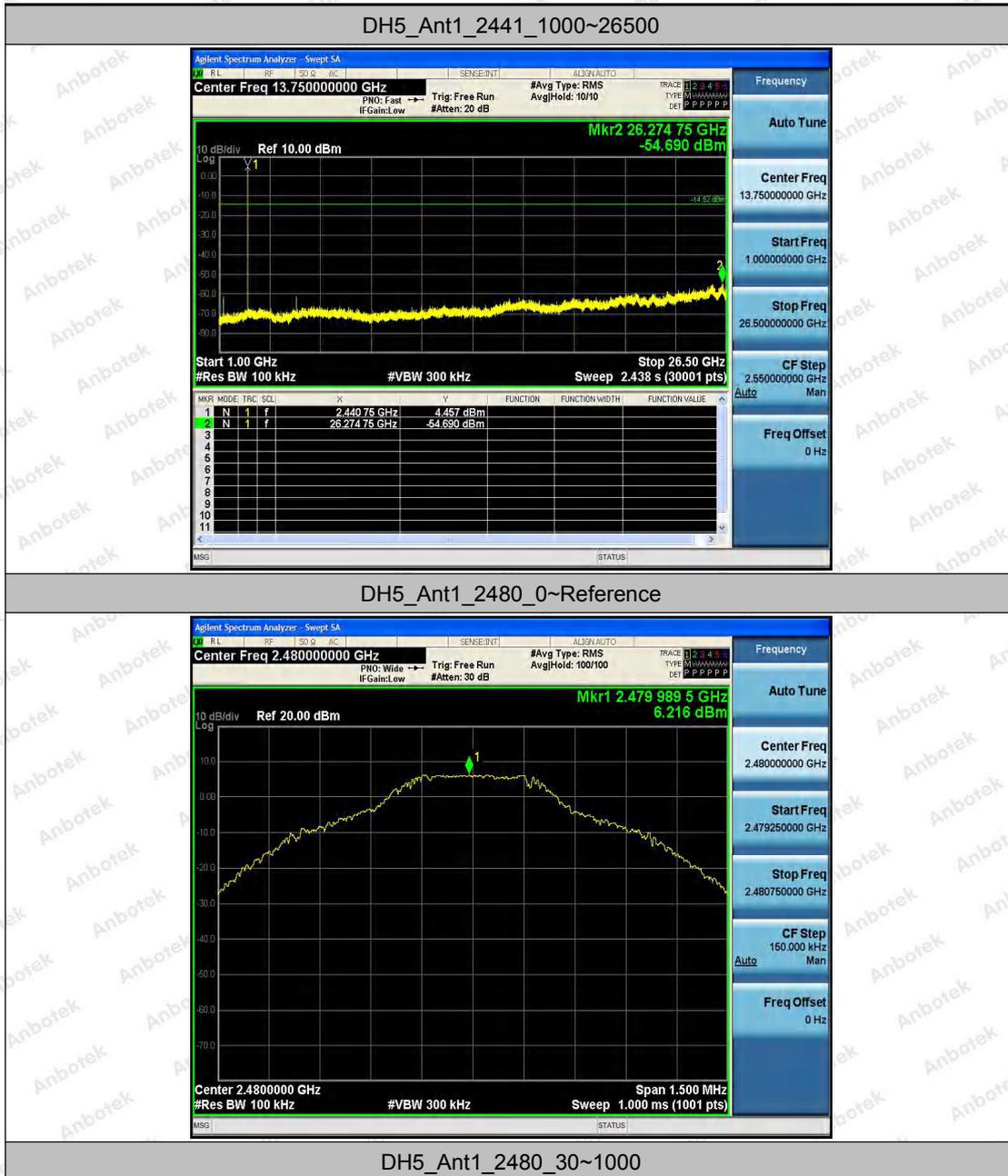


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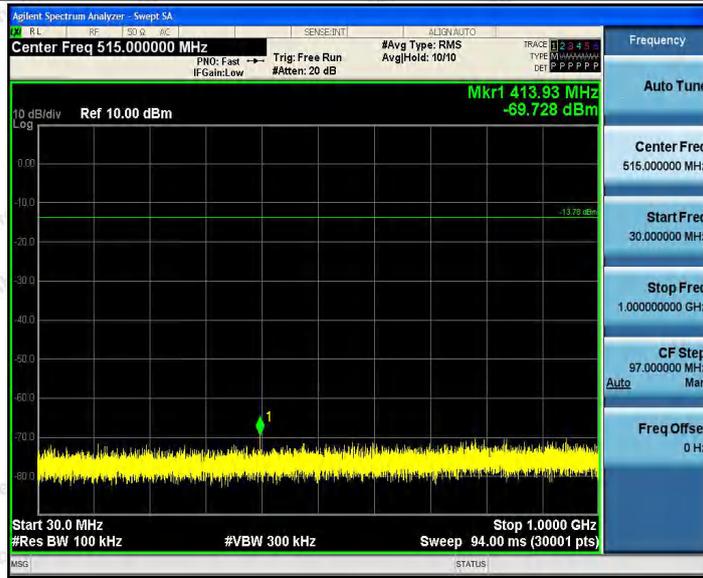


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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

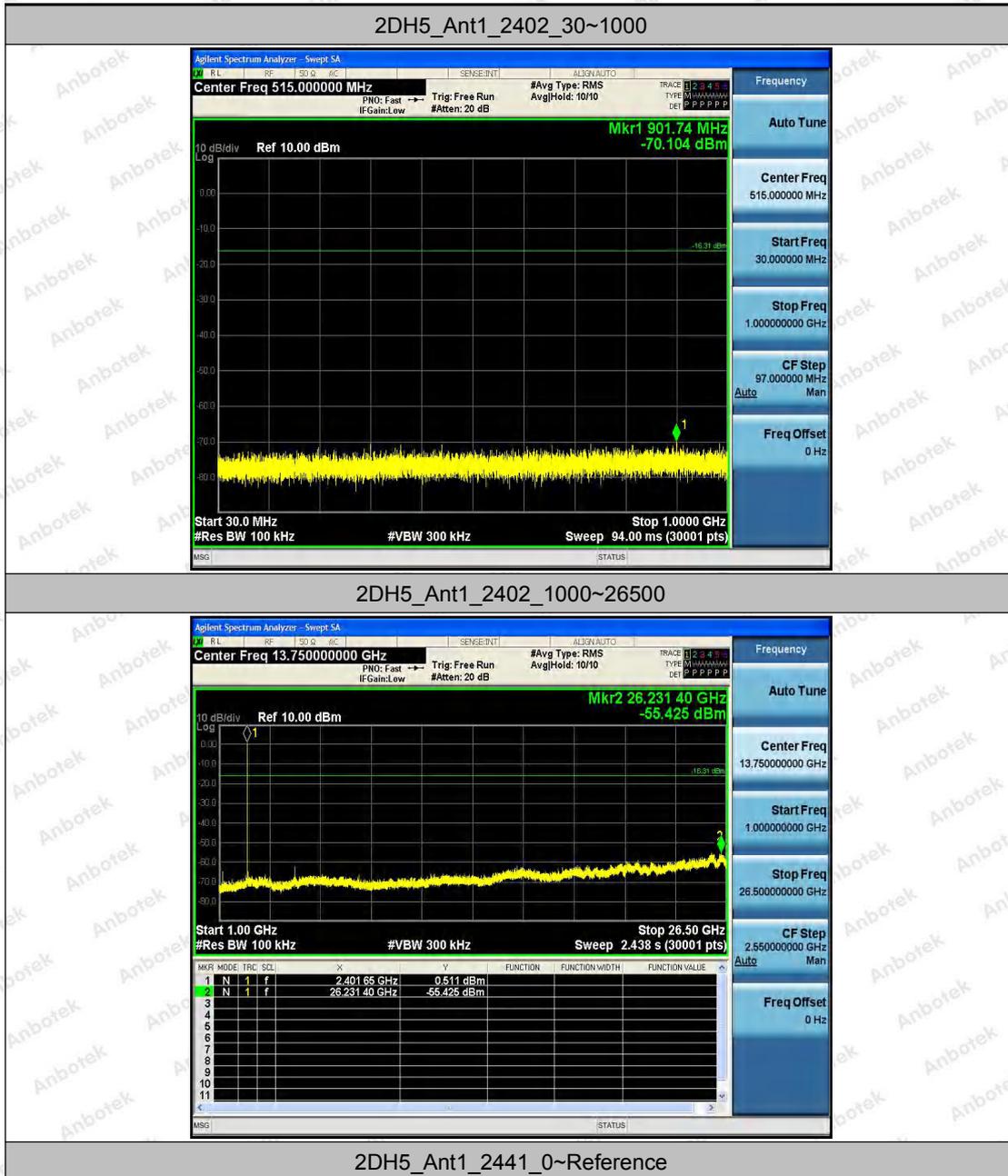


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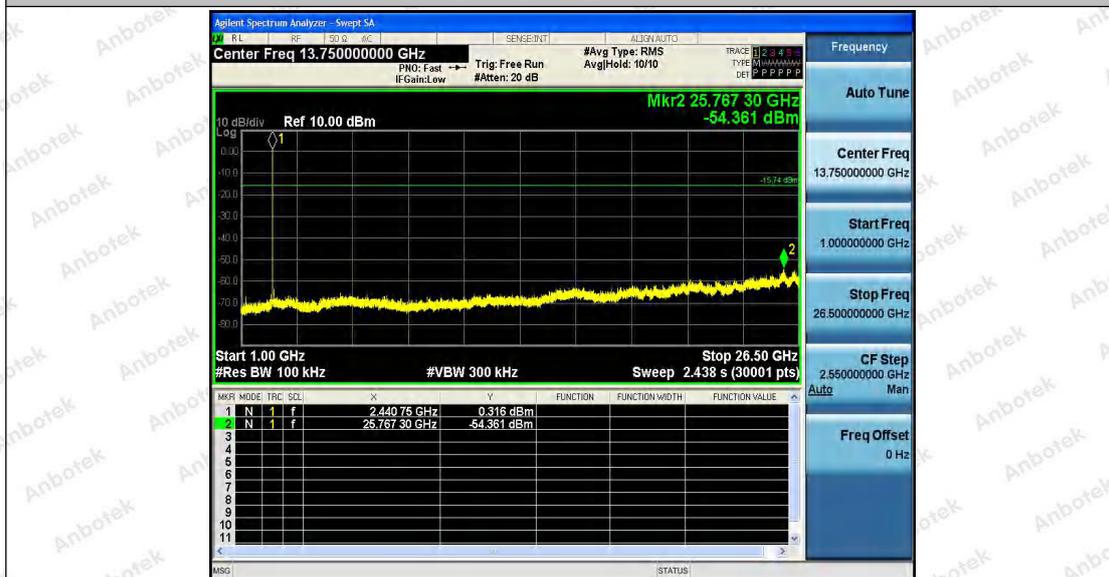
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

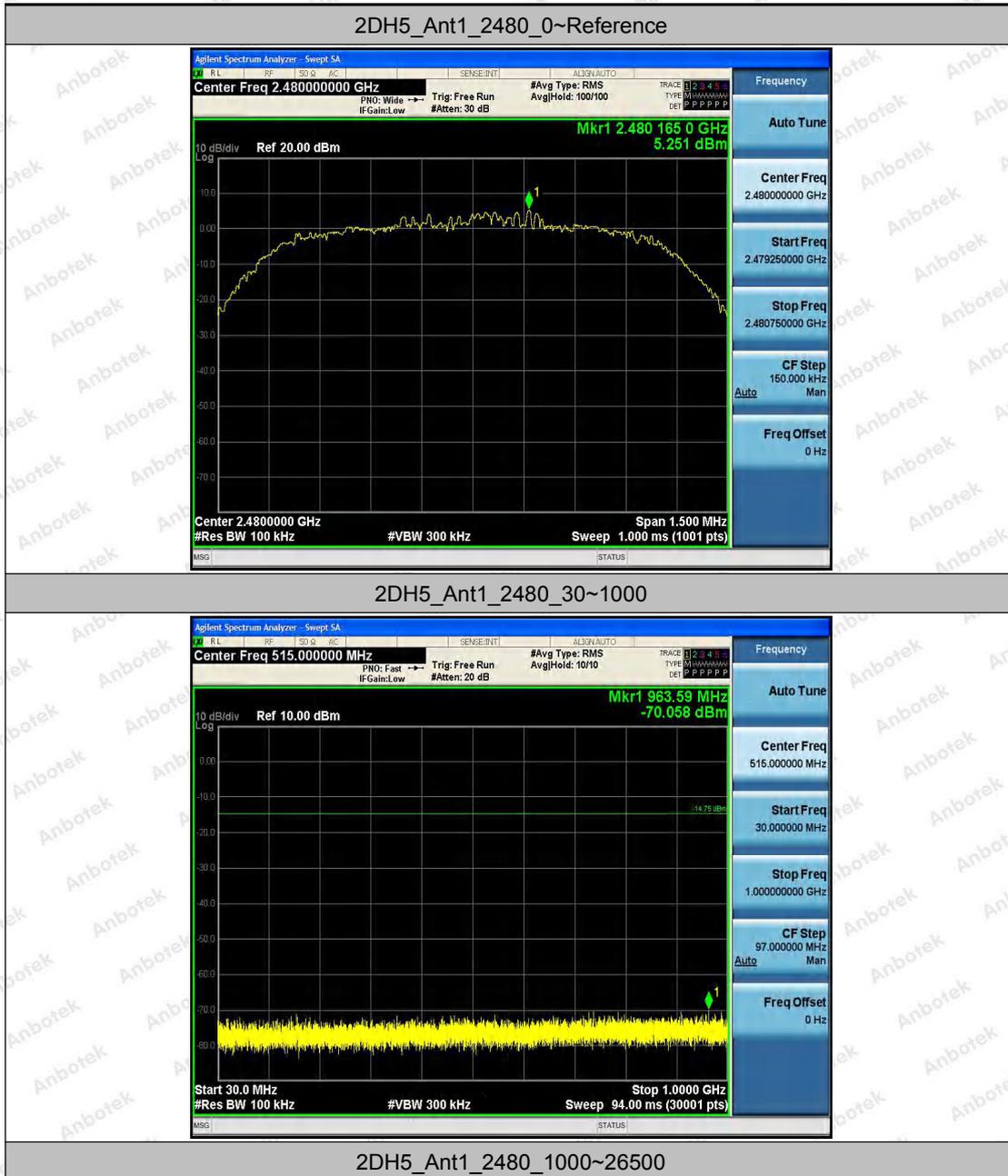


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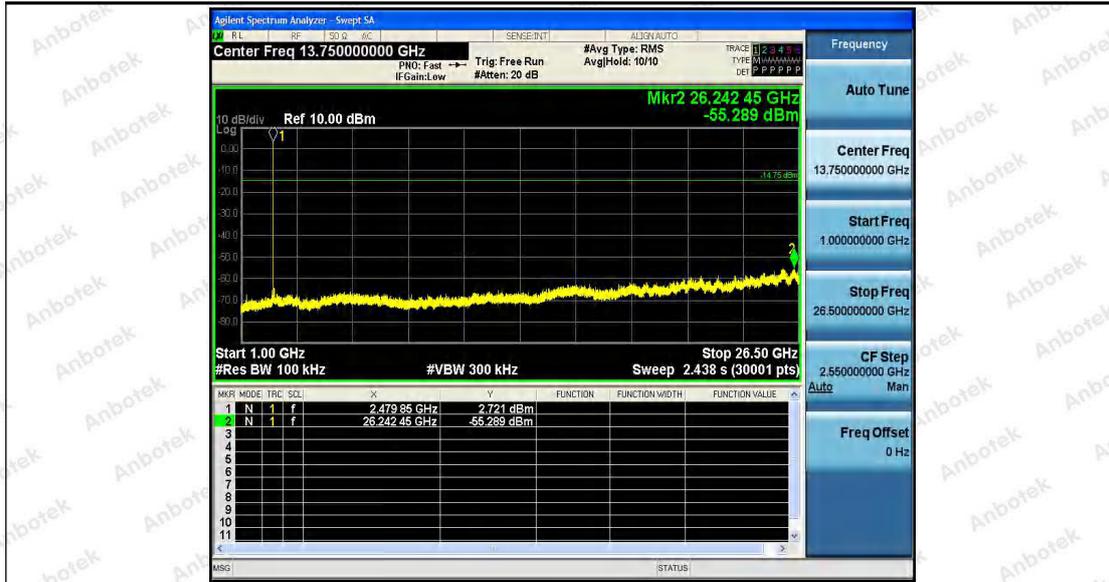


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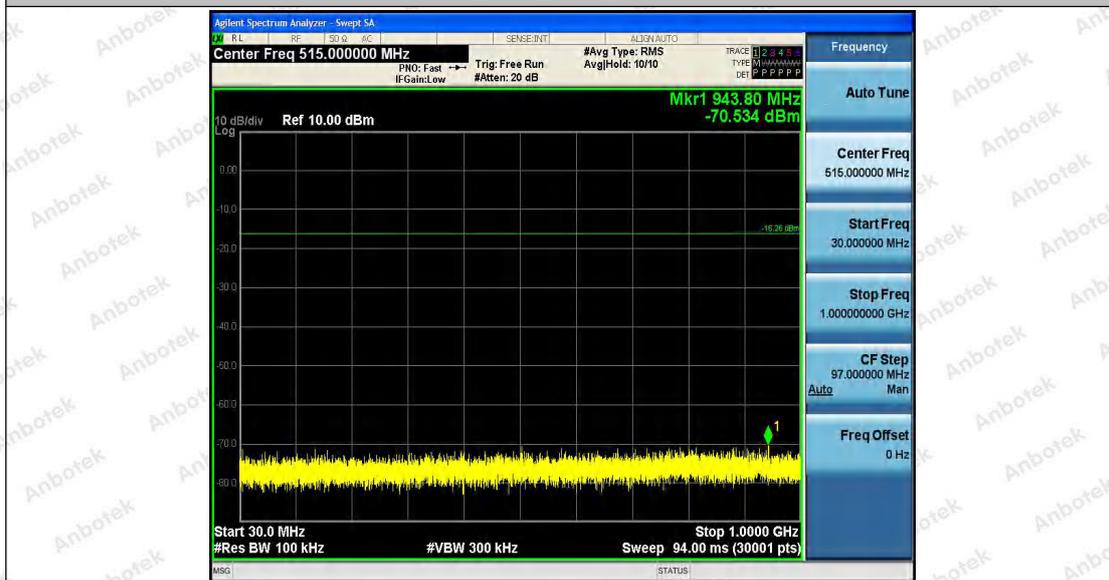
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000

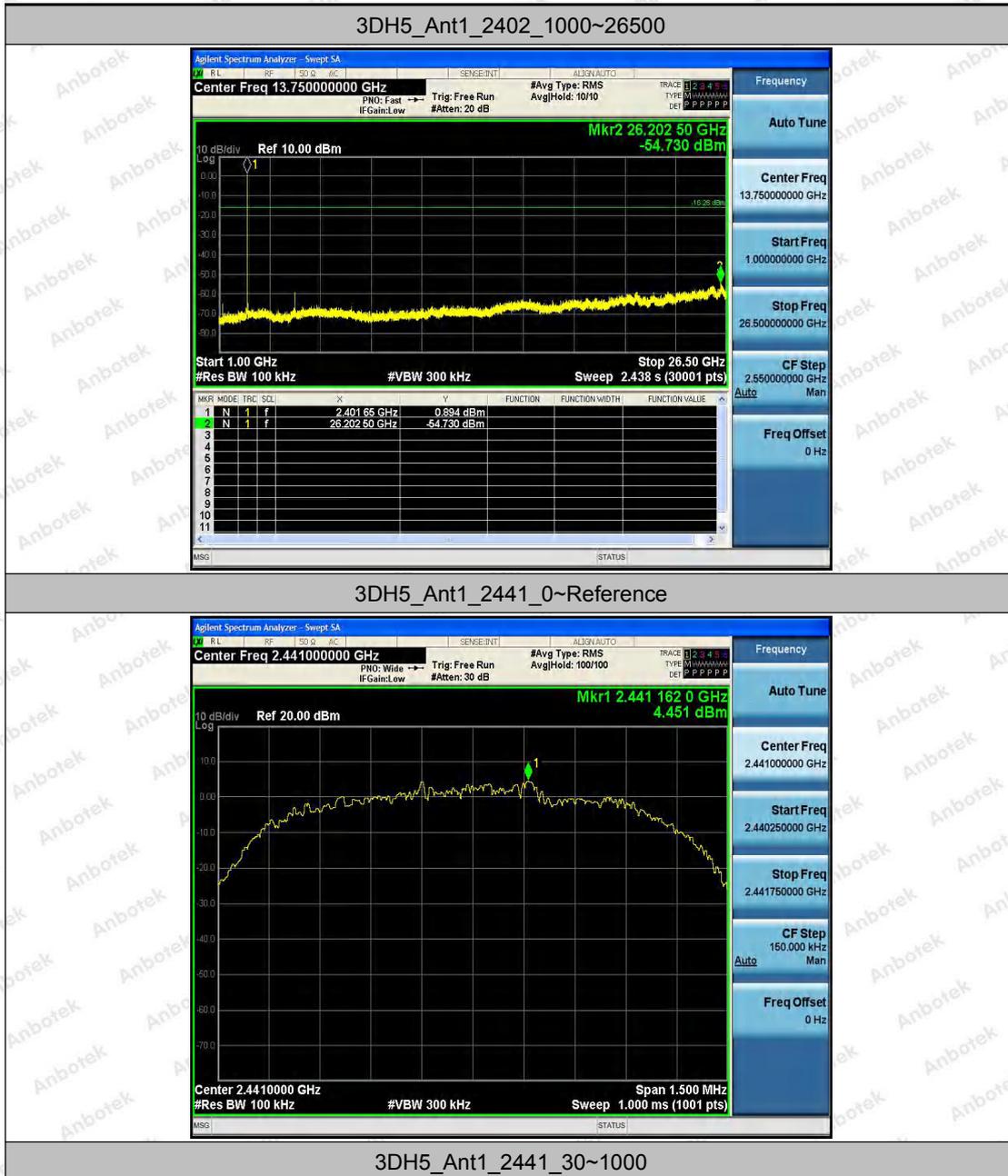


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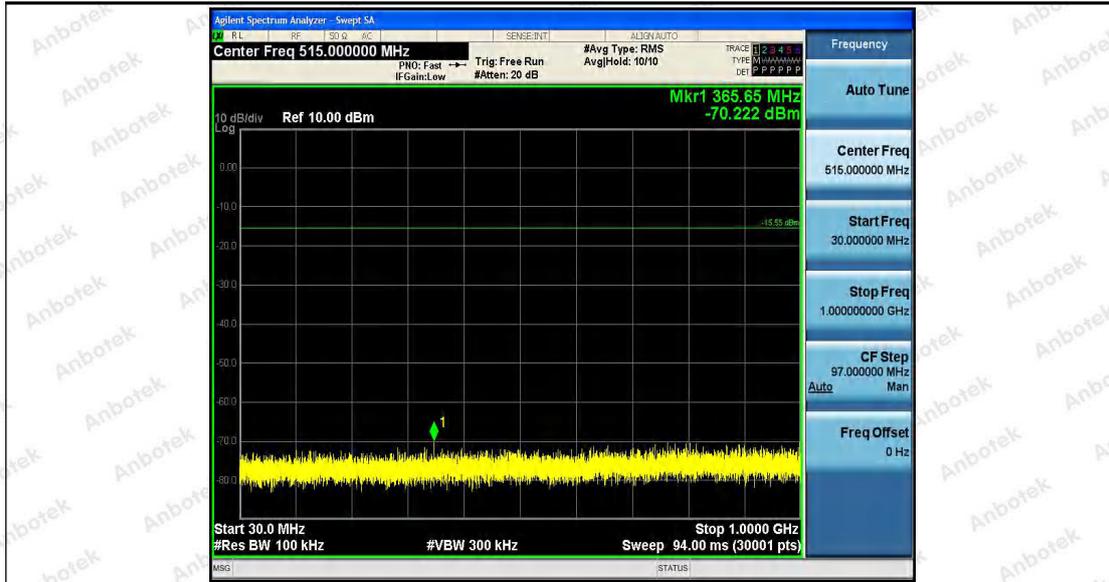


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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

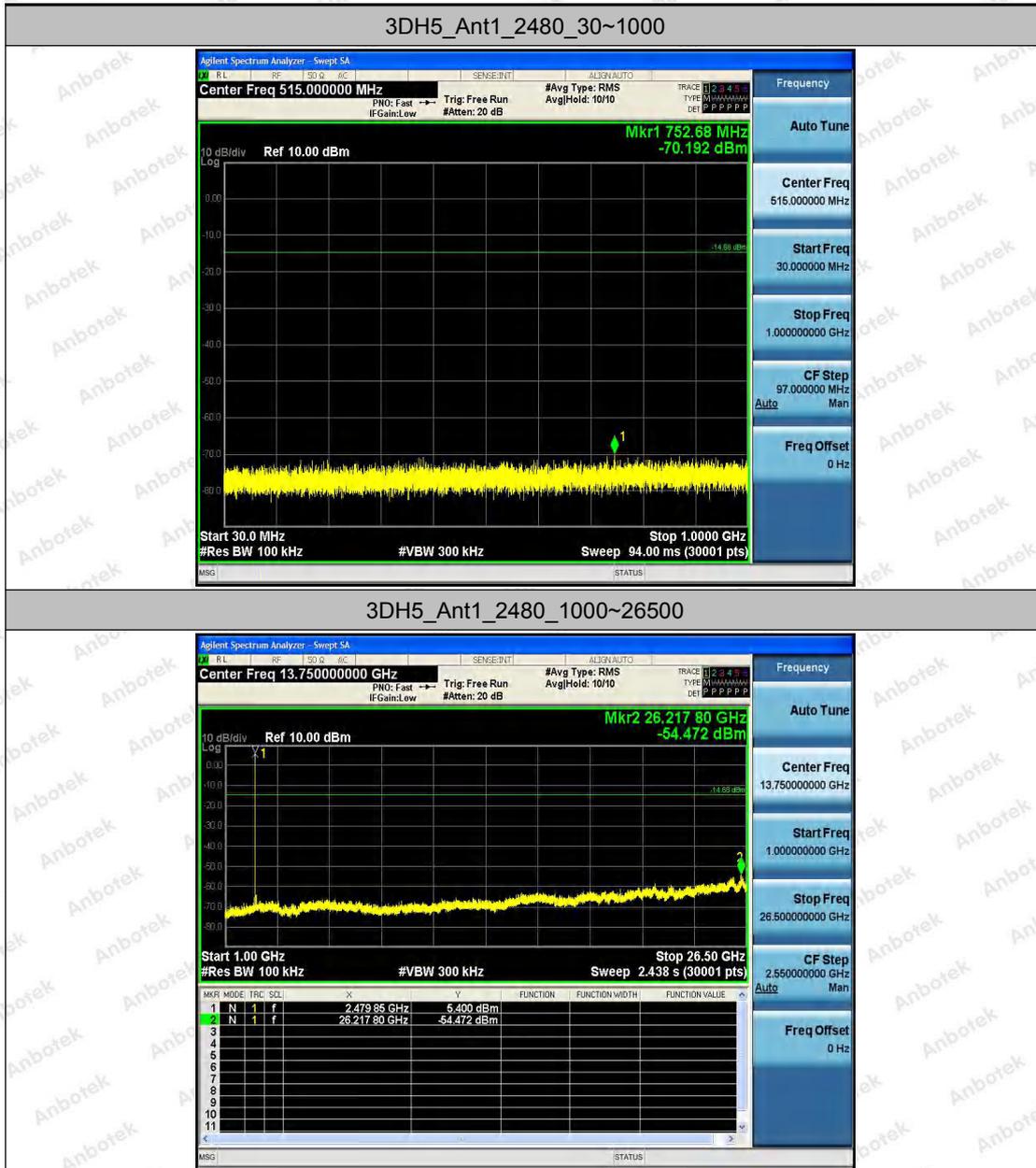


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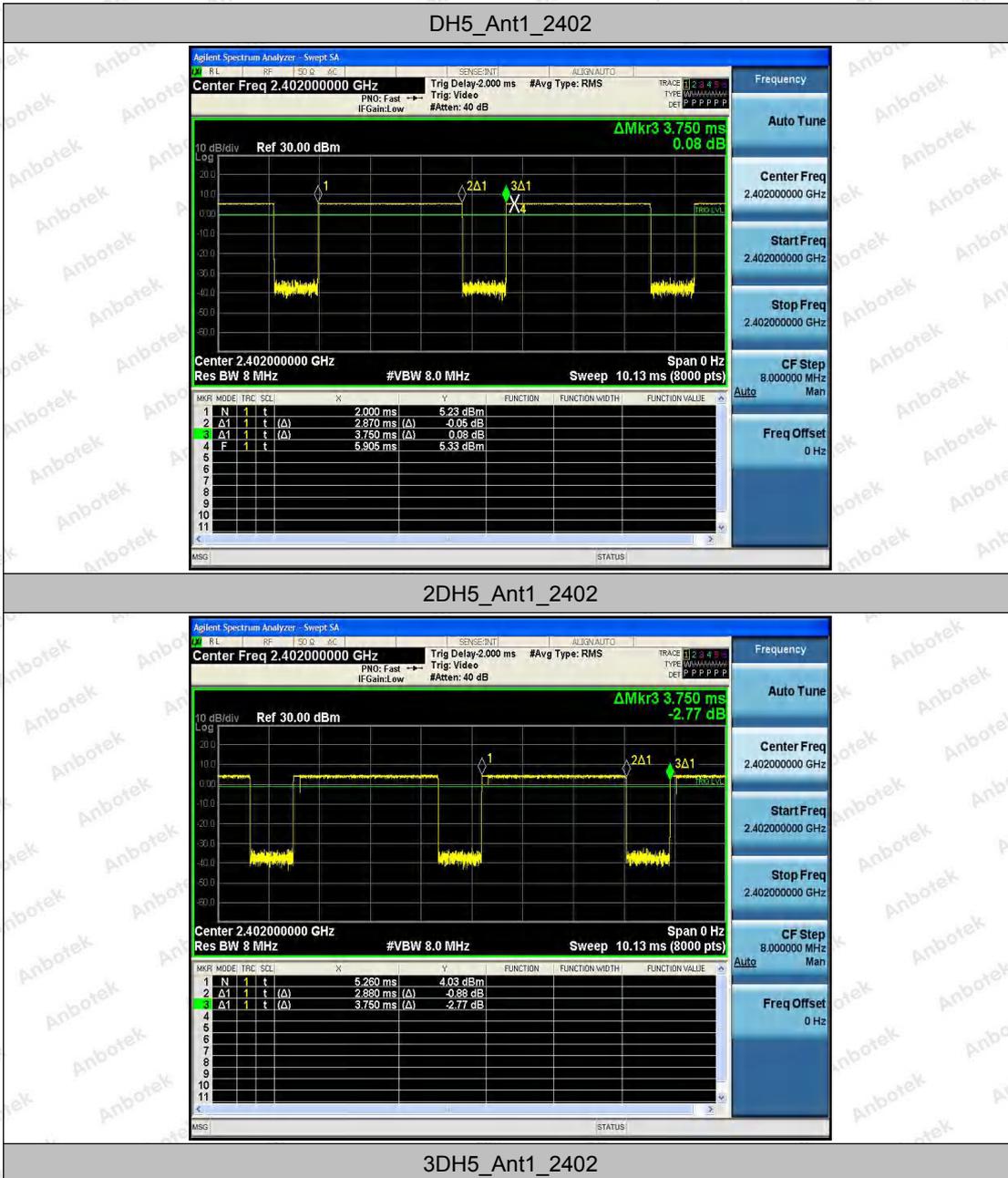
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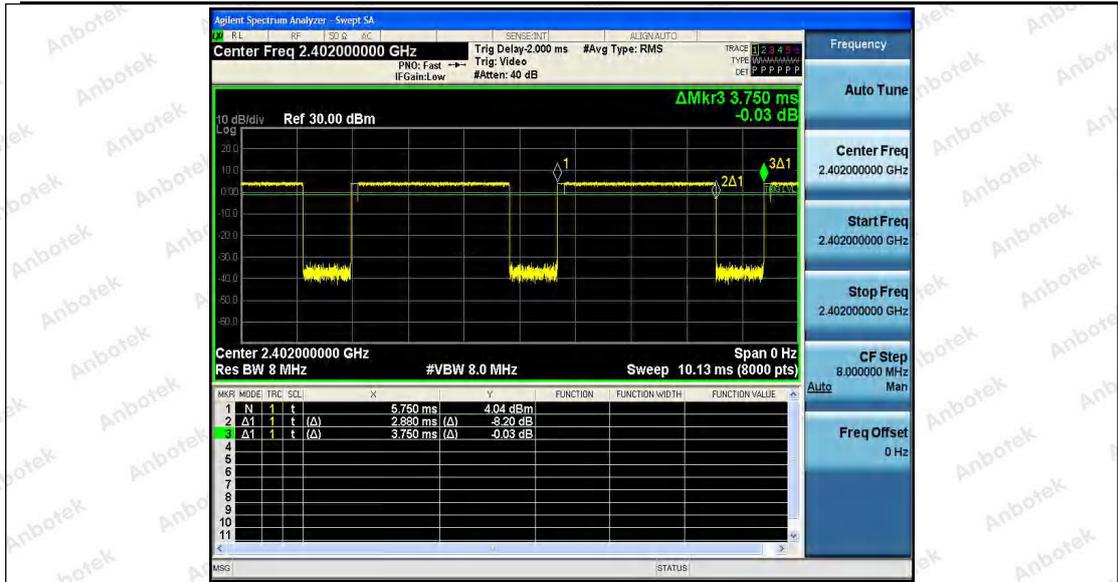
Appendix I: Duty Cycle

Test Result

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	2.88	3.75	0.768 0	76.80	1.15	---	PASS

Test Graphs





---End---