

Appendix Test Data

Report No.:	18220WC10241501	Test Date:	2021.11.3
Test Engineer:	<i>Jonny 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	0.945	2401.535	2402.480	---	PASS
		2441	0.948	2440.535	2441.483	---	PASS
		2480	0.942	2479.544	2480.486	---	PASS
2DH5	Ant1	2402	1.347	2401.328	2402.675	---	PASS
		2441	1.326	2440.334	2441.660	---	PASS
		2480	1.320	2479.343	2480.663	---	PASS
3DH5	Ant1	2402	1.281	2401.346	2402.627	---	PASS
		2441	1.293	2440.346	2441.639	---	PASS
		2480	1.314	2479.343	2480.657	---	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

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89809	2401.553	2402.451	---	PASS
		2441	0.89410	2440.553	2441.447	---	PASS
		2480	0.89087	2479.552	2480.443	---	PASS
2DH5	Ant1	2402	1.2051	2401.395	2402.600	---	PASS
		2441	1.2047	2440.396	2441.601	---	PASS
		2480	1.1881	2479.404	2480.592	---	PASS
3DH5	Ant1	2402	1.2154	2401.381	2402.597	---	PASS
		2441	1.2164	2440.382	2441.598	---	PASS
		2480	1.2044	2479.388	2480.593	---	PASS

Test Graphs



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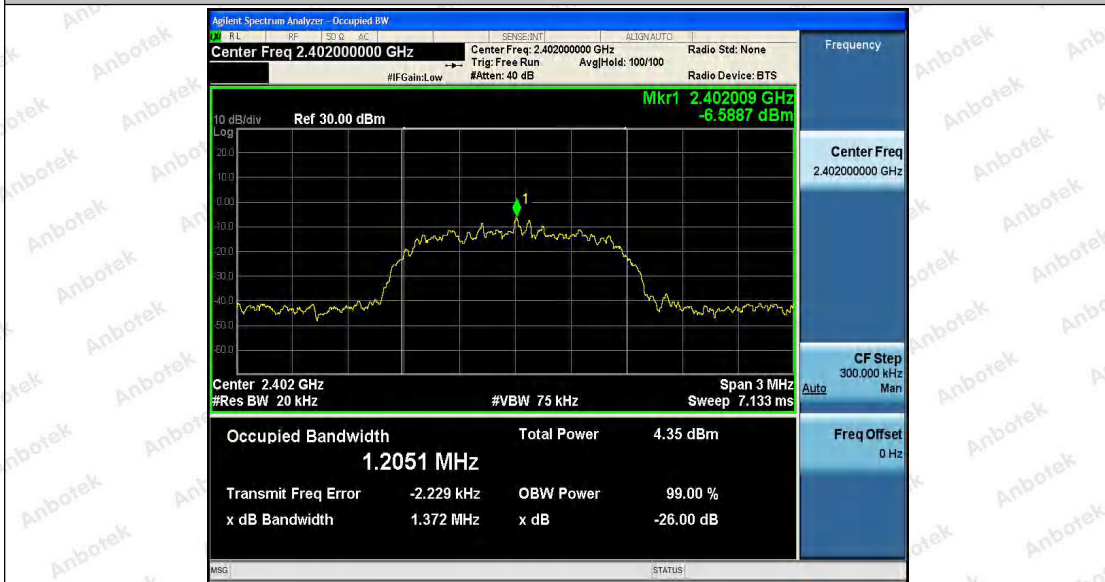
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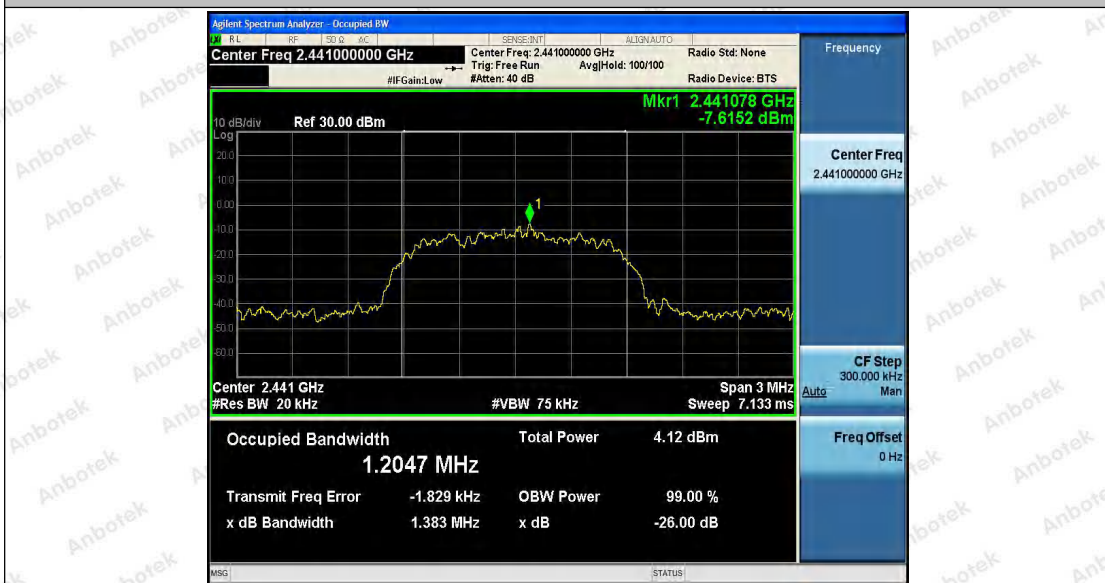
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2DH5_Ant1_2402



2DH5_Ant1_2441



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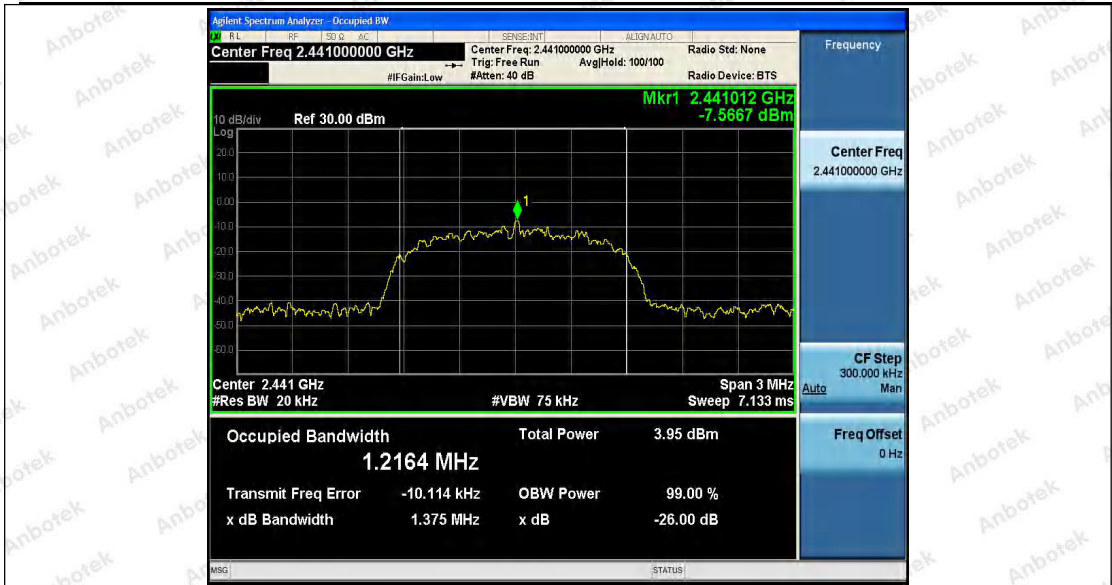


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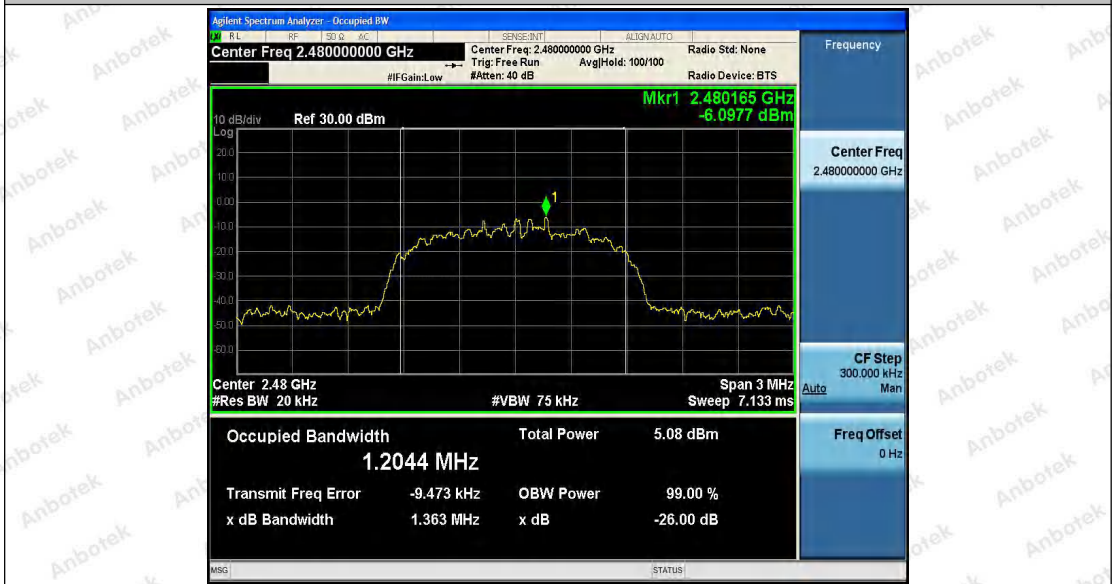
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3DH5_Ant1_2480



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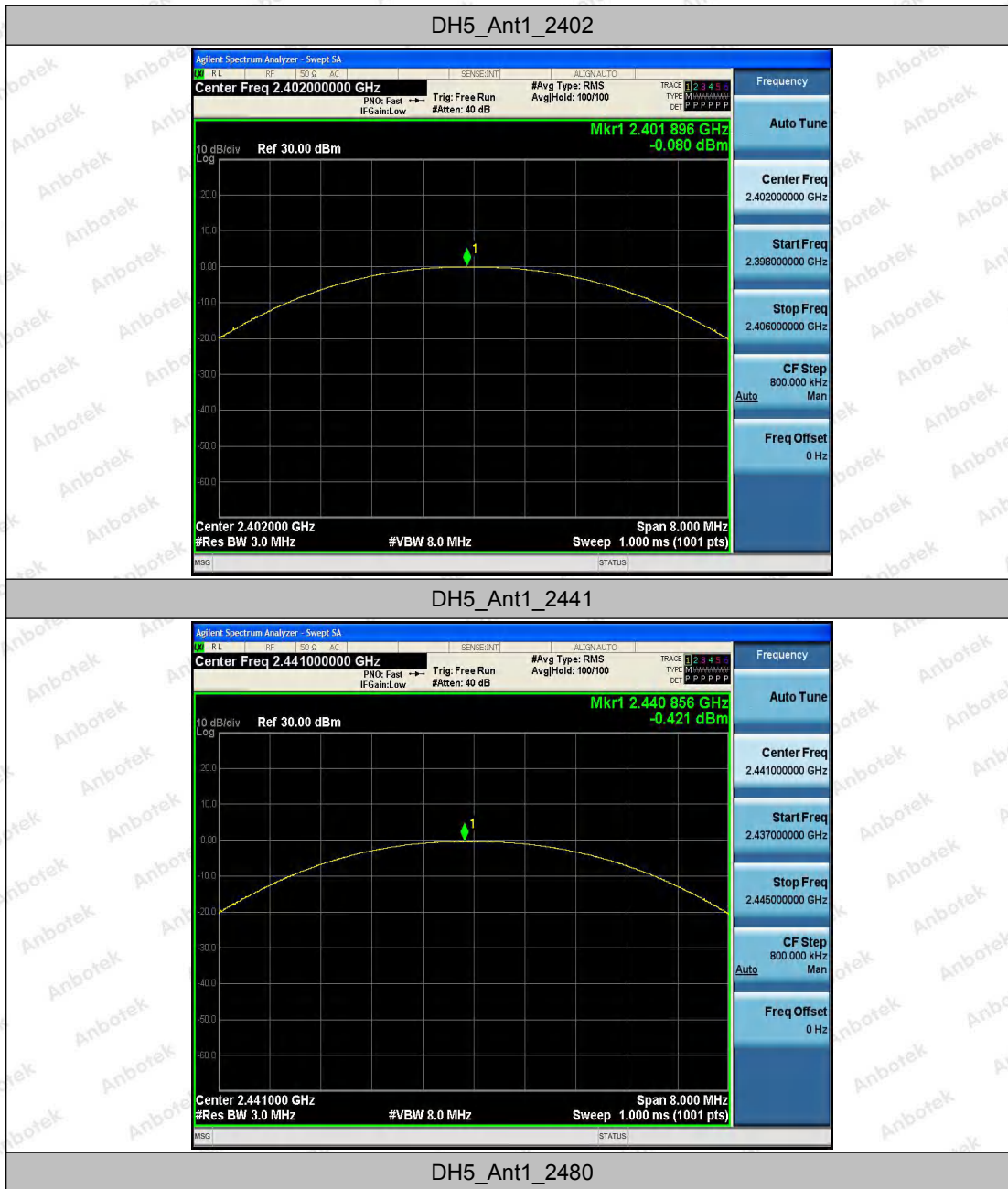
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Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.08	≤20.97	PASS
		2441	-0.42	≤20.97	PASS
		2480	0.5	≤20.97	PASS
2DH5	Ant1	2402	-0.67	≤20.97	PASS
		2441	-0.97	≤20.97	PASS
		2480	-0.09	≤20.97	PASS
3DH5	Ant1	2402	-0.53	≤20.97	PASS
		2441	-0.85	≤20.97	PASS
		2480	-0.04	≤20.97	PASS

Test Graphs



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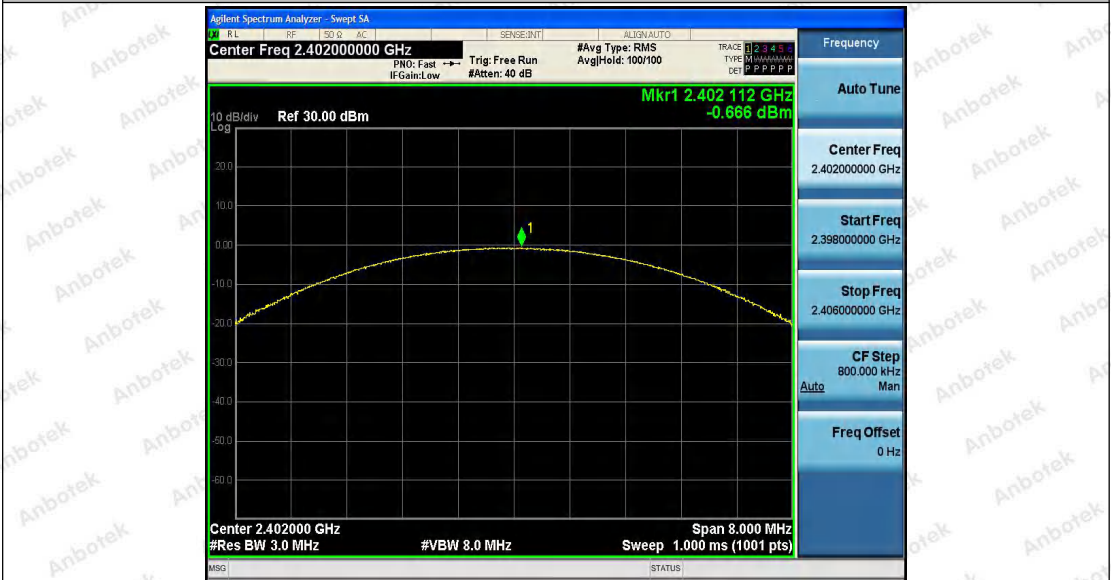
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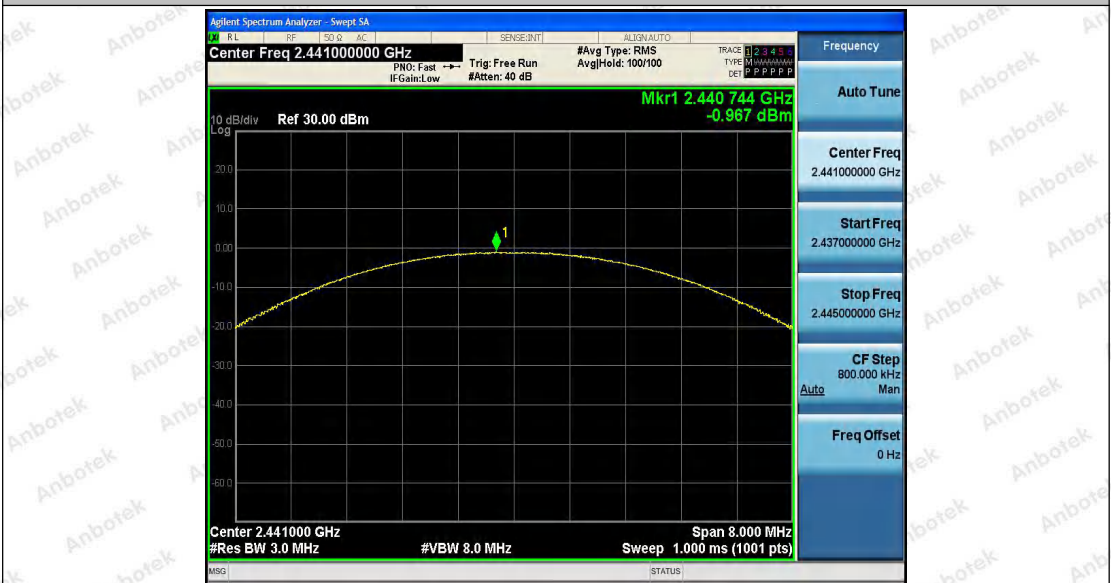
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2DH5_Ant1_2402



2DH5_Ant1_2441

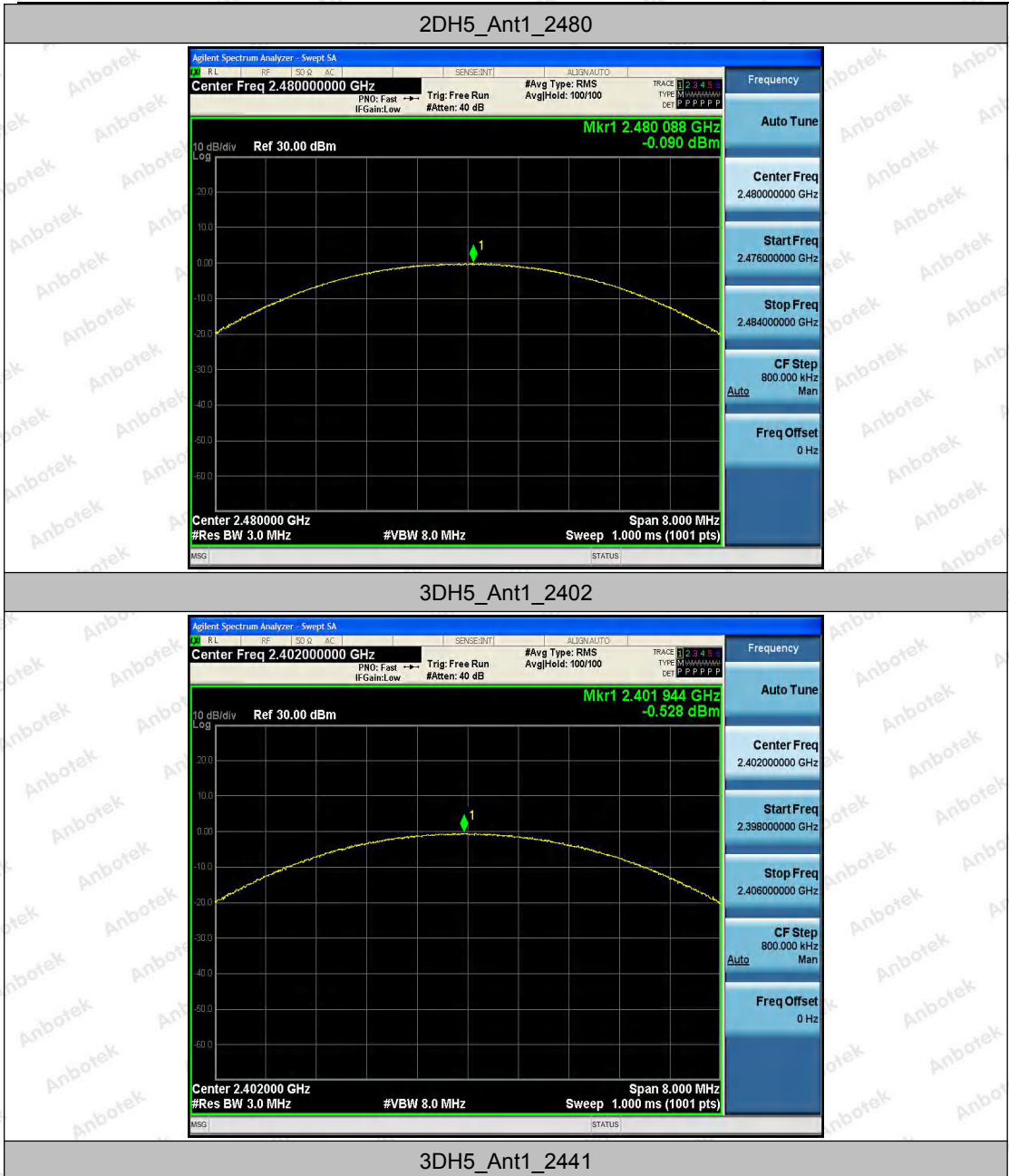


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3DH5_Ant1_2480



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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.136	≥0.948	PASS
2DH5	Ant1	Hop	0.914	≥0.898	PASS
3DH5	Ant1	Hop	0.954	≥0.876	PASS

Test Graphs



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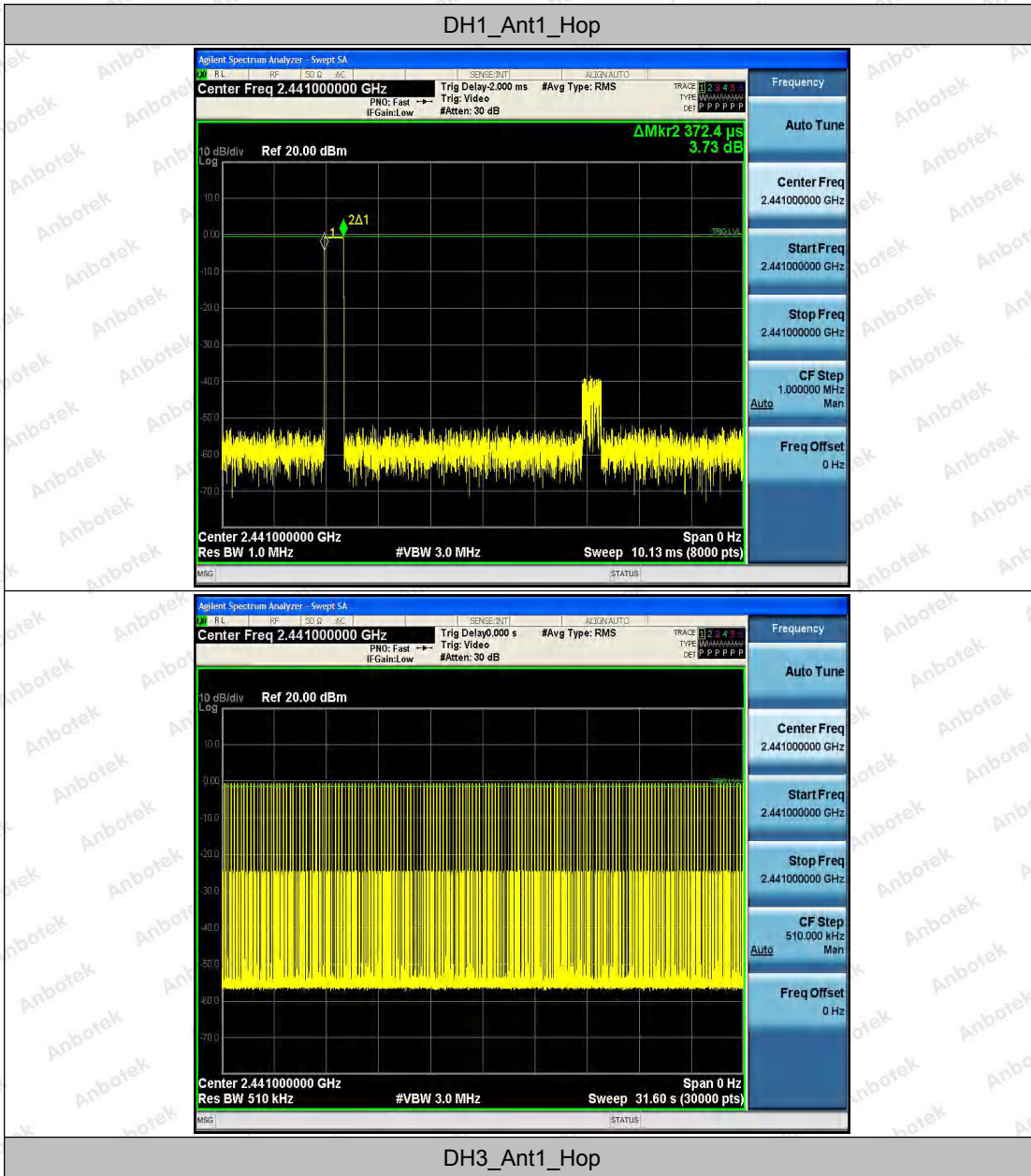
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Appendix E: Time of occupancy

Test Result

Test Mode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	314	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	159	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.88	106	0.305	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
2DH5	Ant1	Hop	2.88	106	0.305	≤0.4	PASS
3DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
3DH5	Ant1	Hop	2.88	106	0.305	≤0.4	PASS

Test Graphs

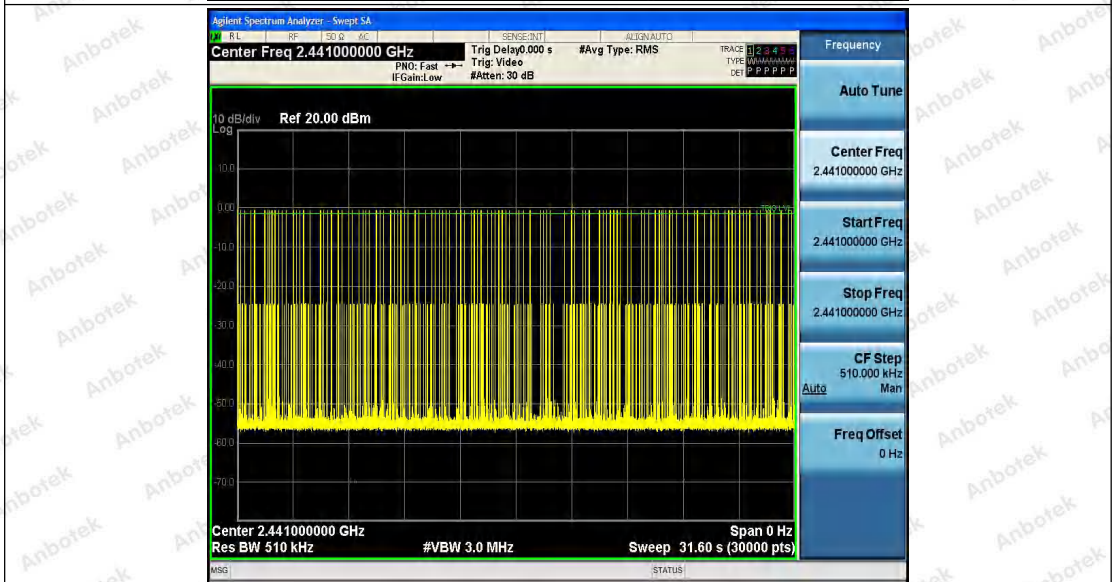
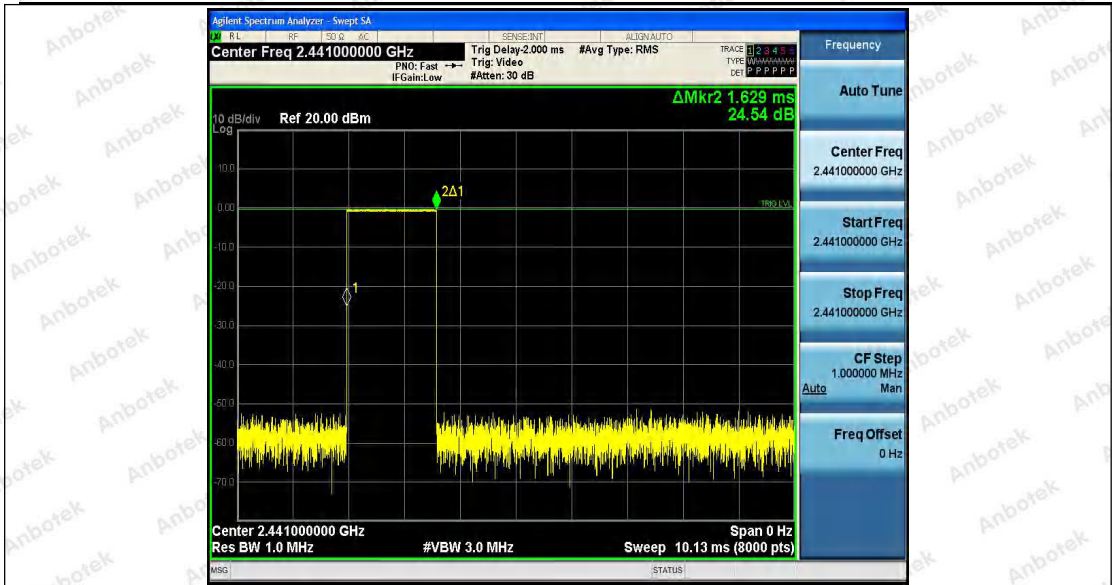


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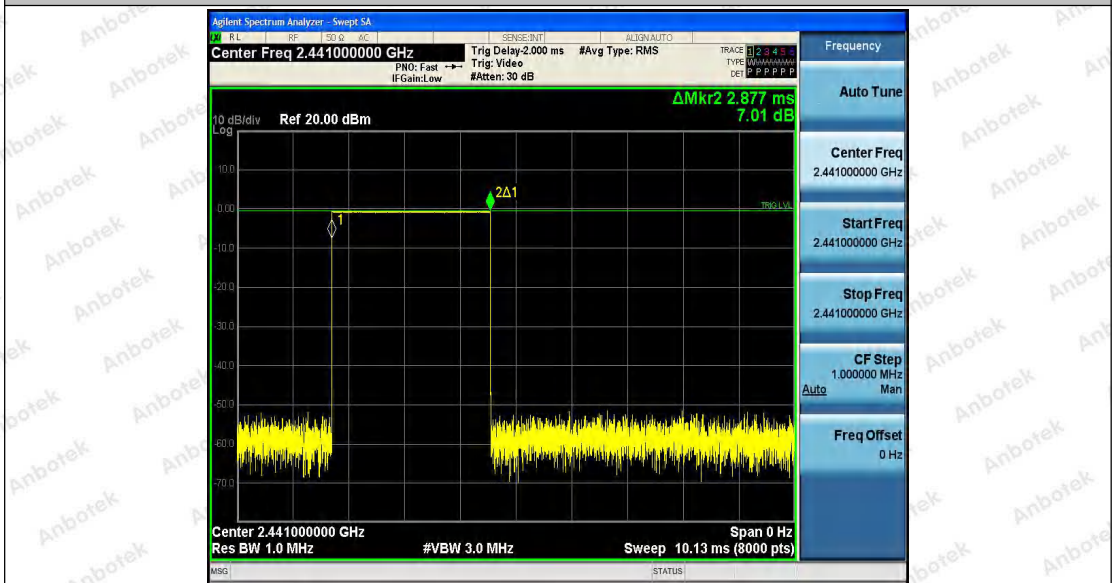
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DH5_Ant1_Hop

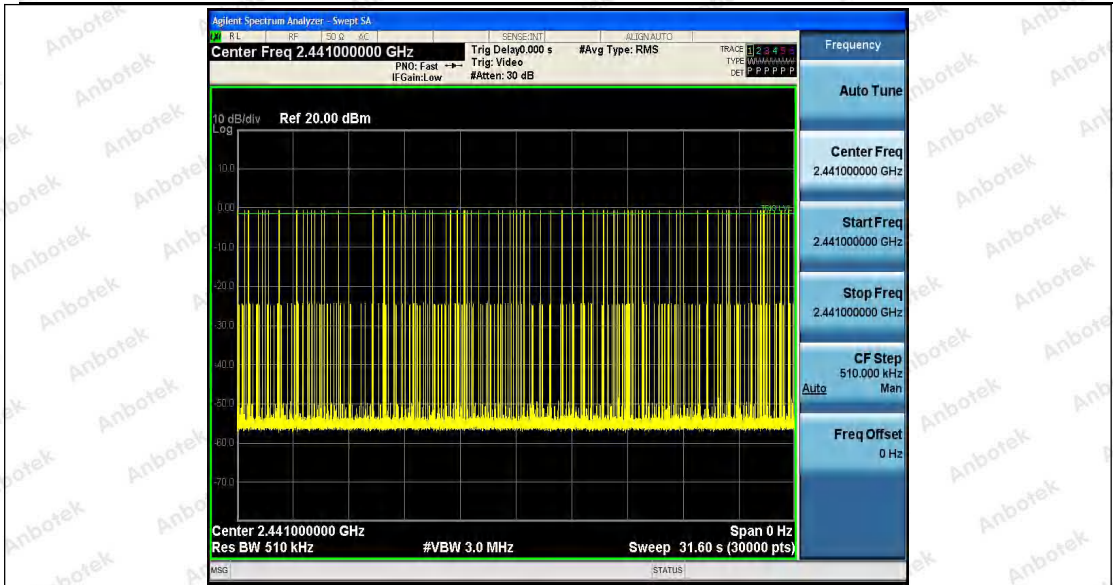


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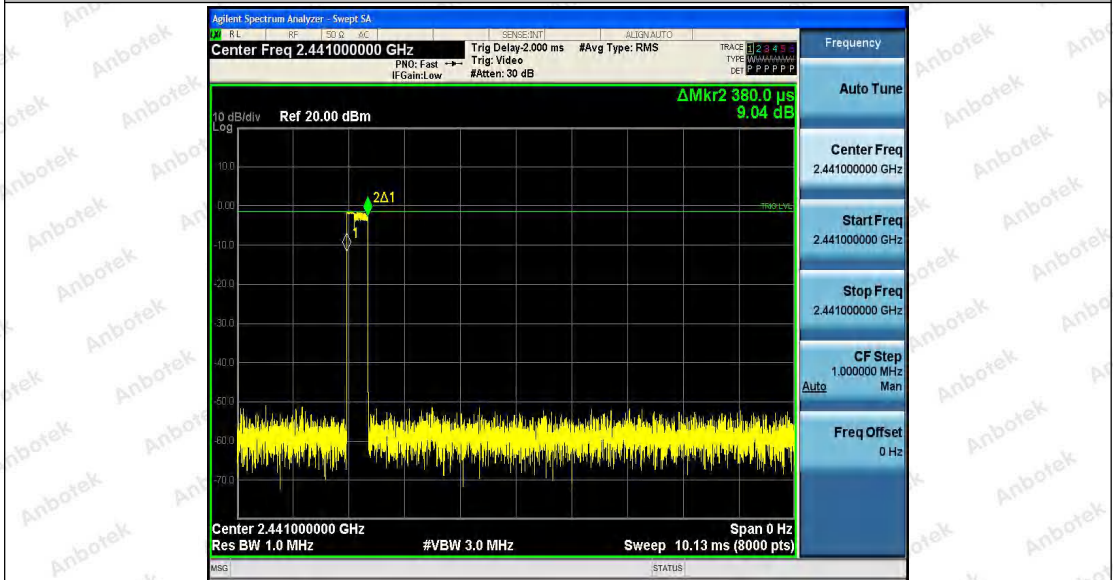
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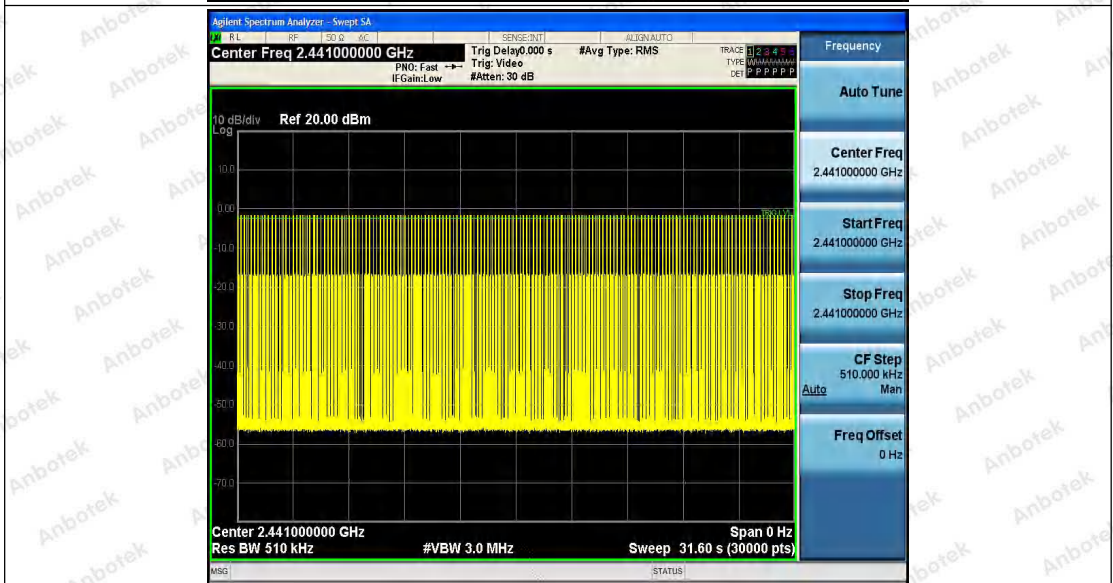
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2DH1_Ant1_Hop



2DH3_Ant1_Hop



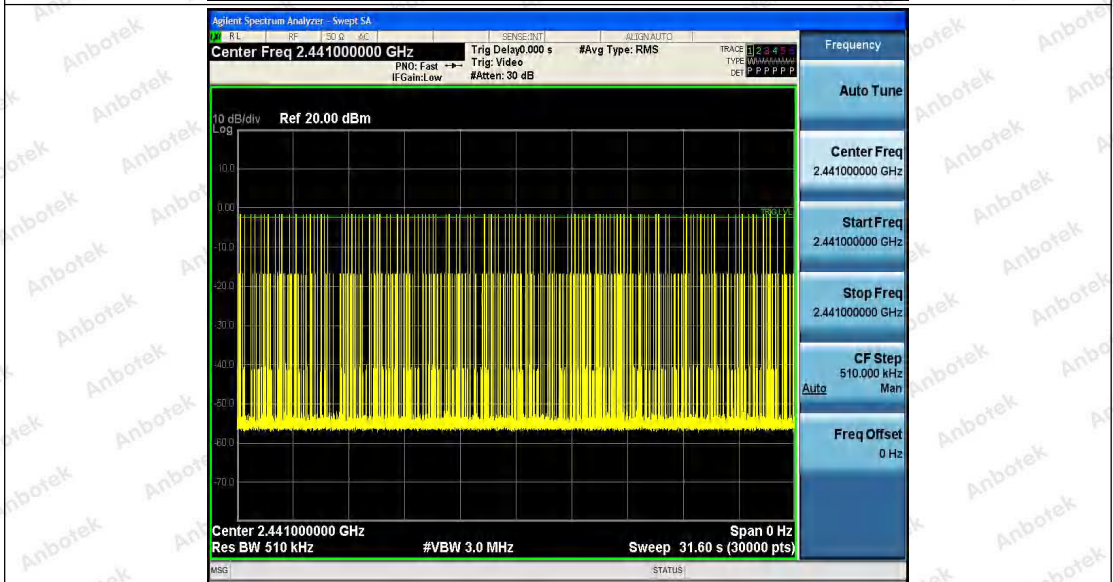
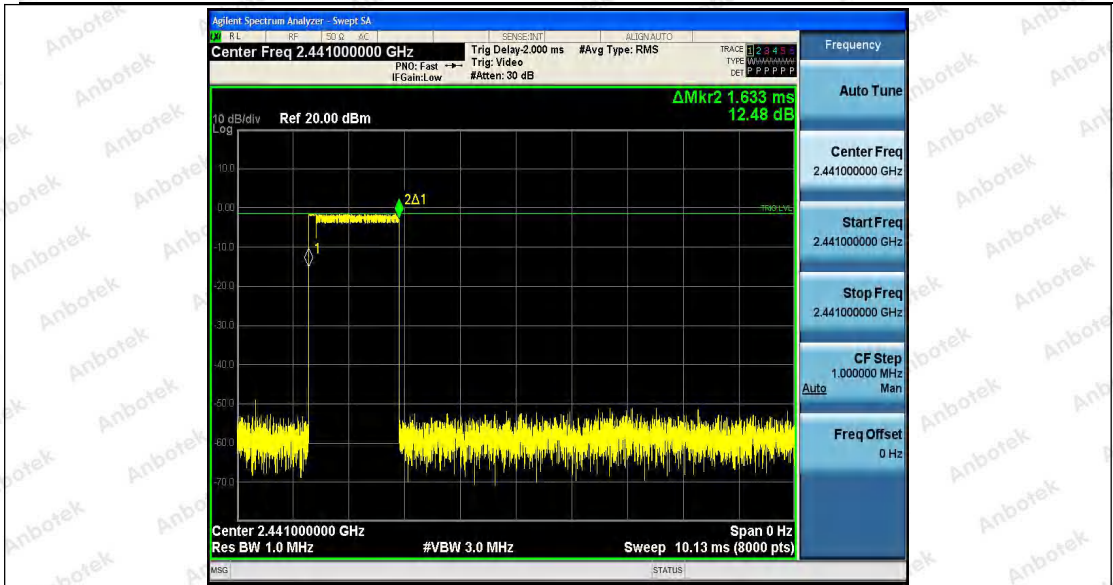
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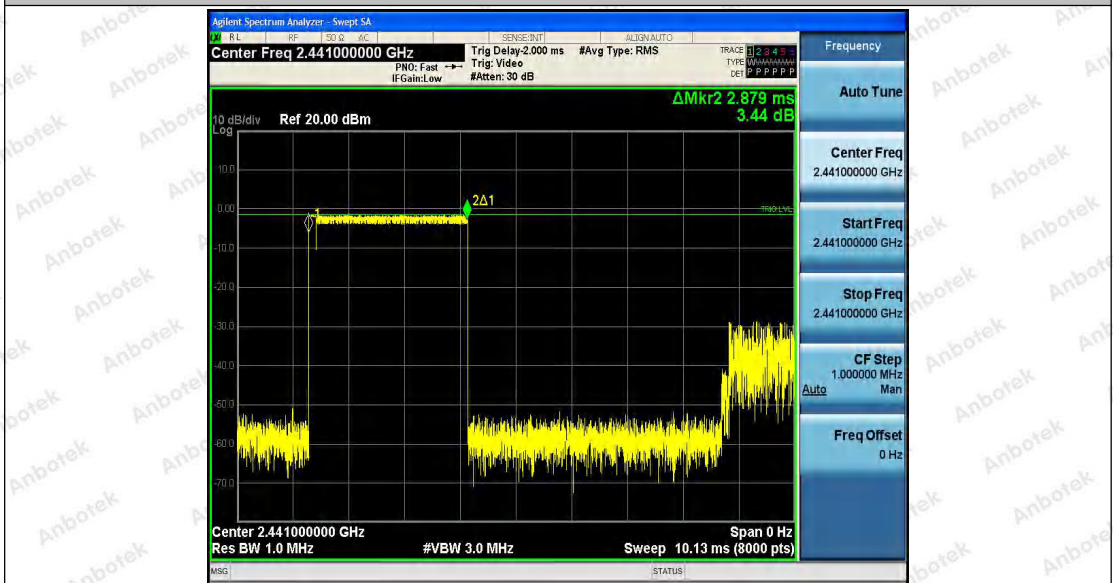
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2DH5_Ant1_Hop

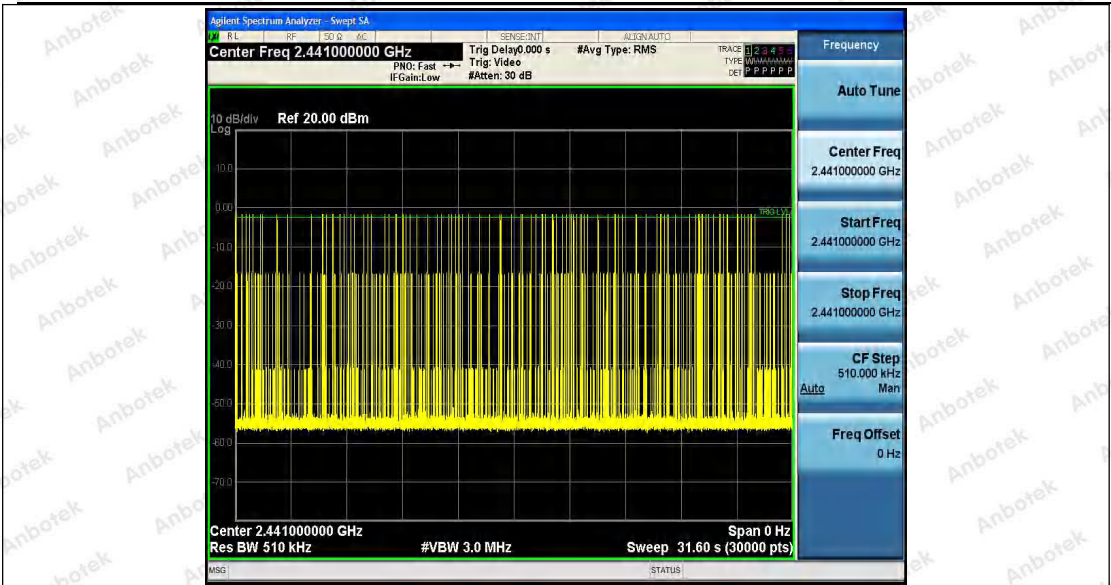


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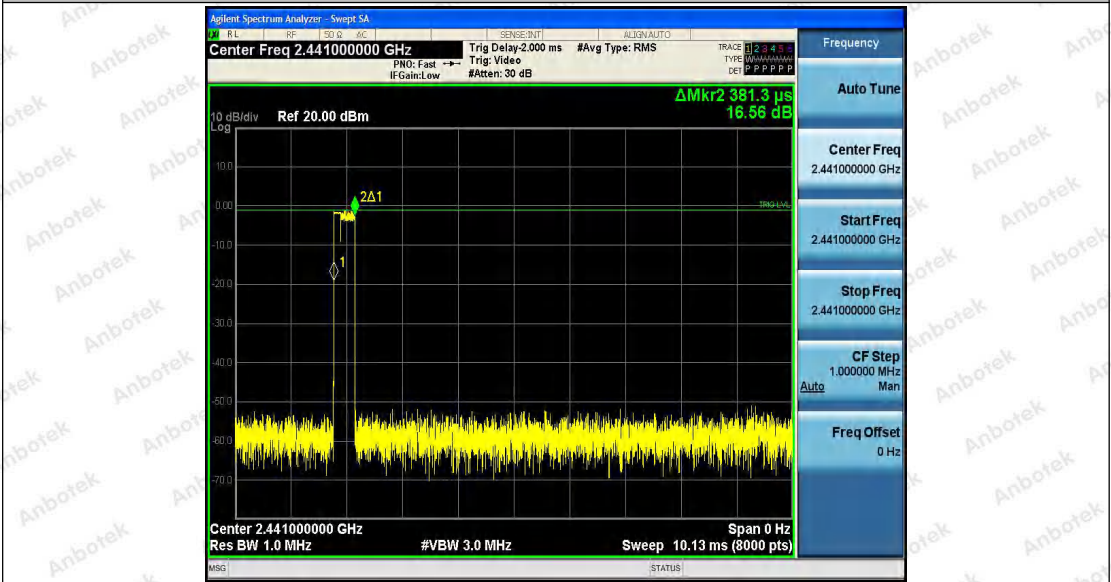
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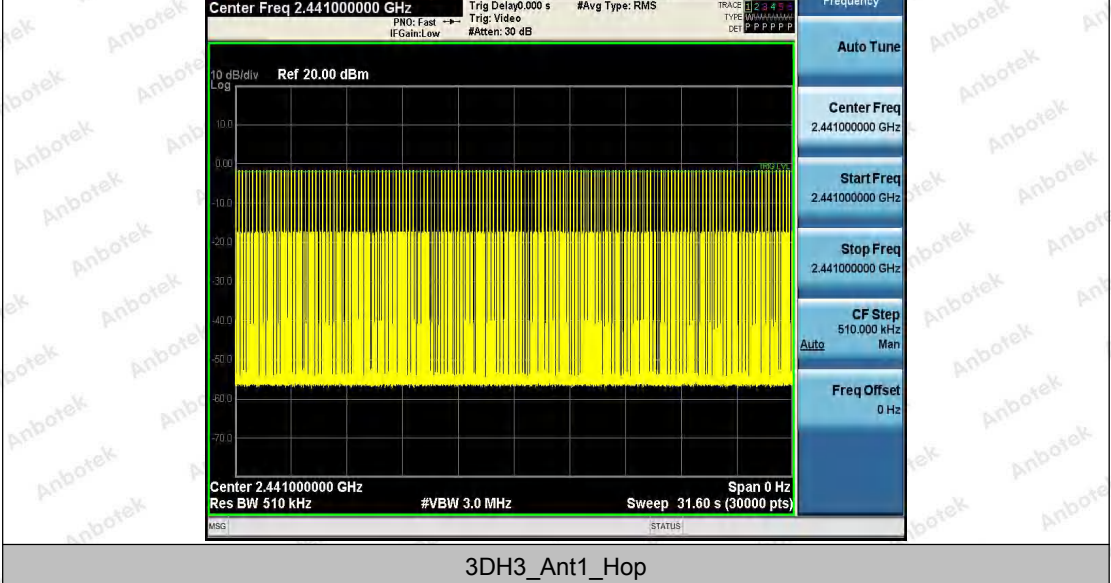
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3DH1_Ant1_Hop



3DH1_Ant1_Hop



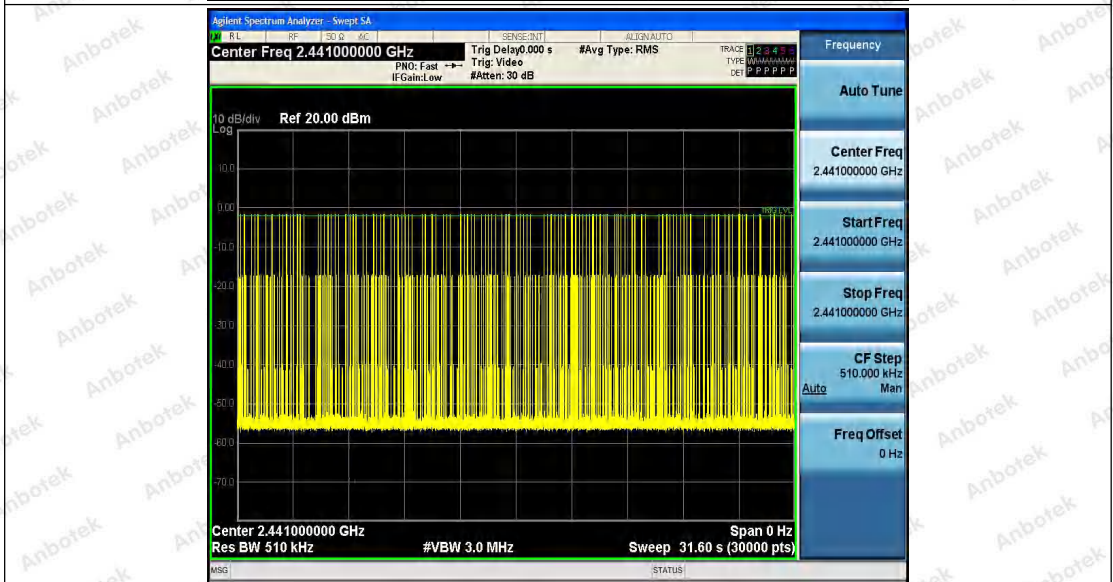
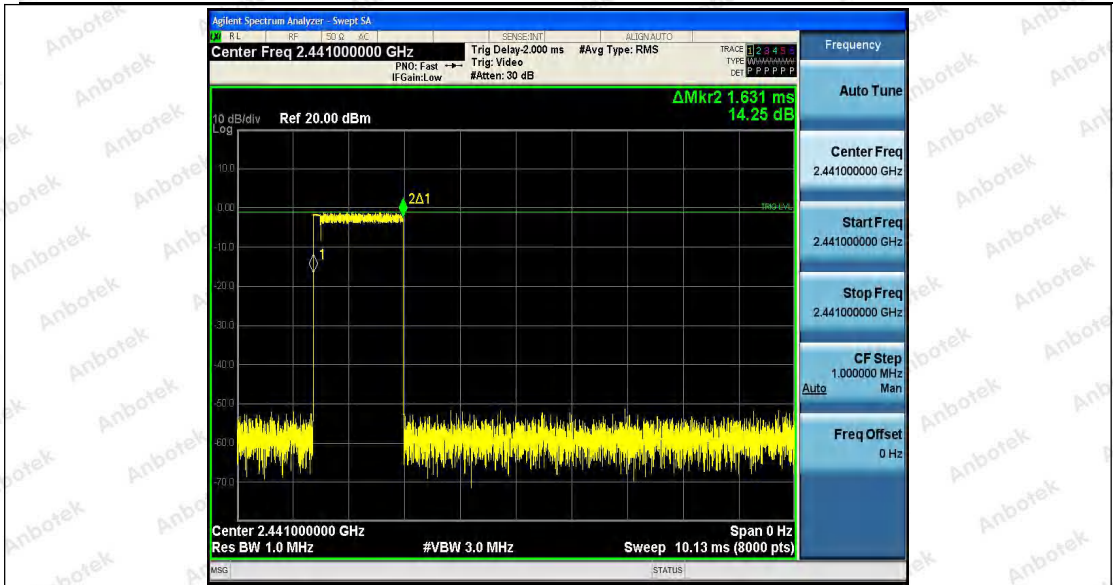
3DH3_Ant1_Hop

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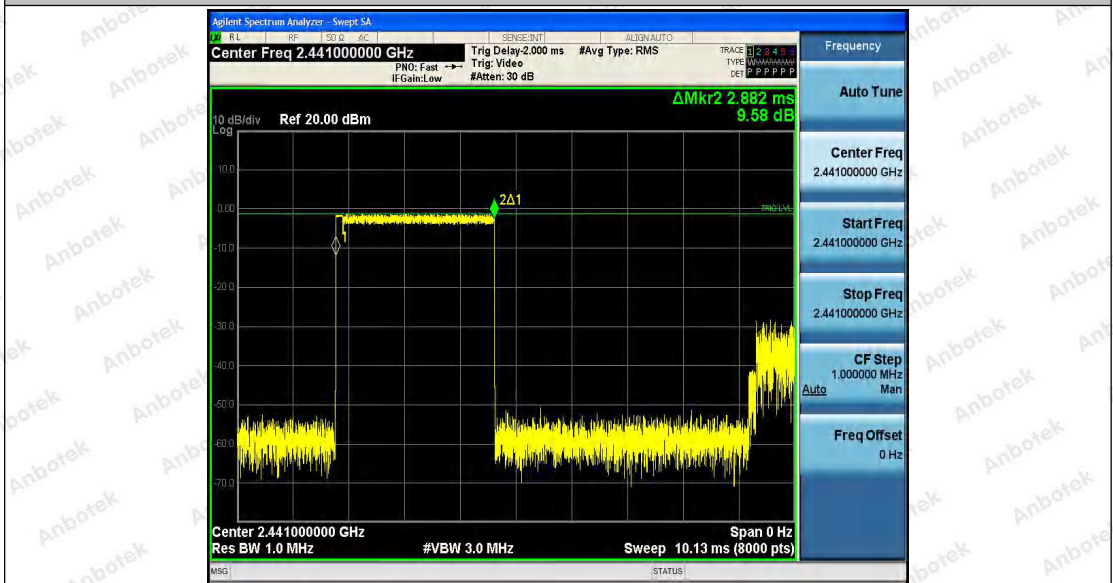
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3DH5_Ant1_Hop

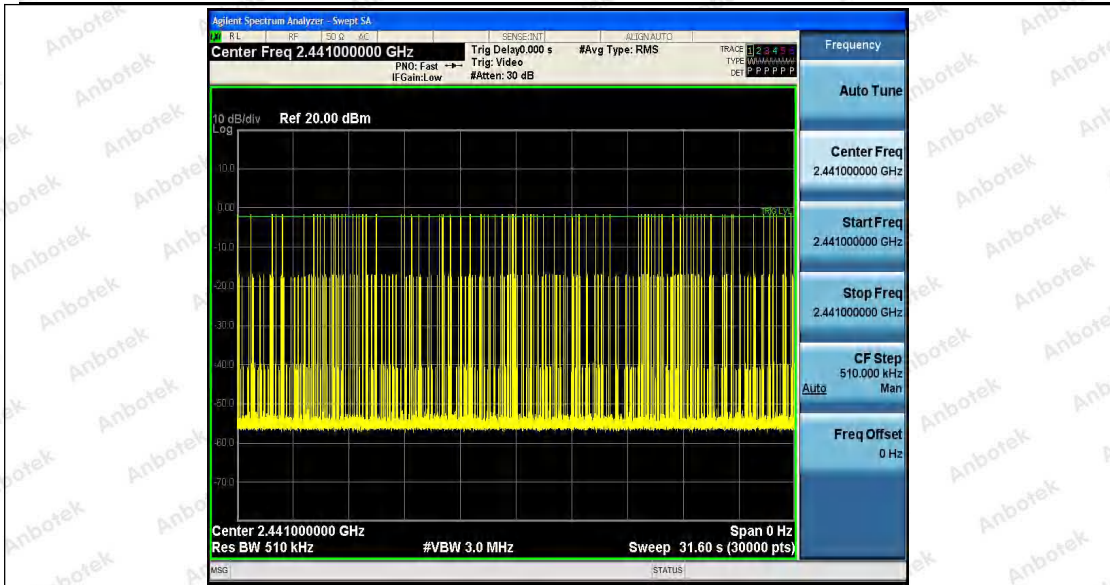


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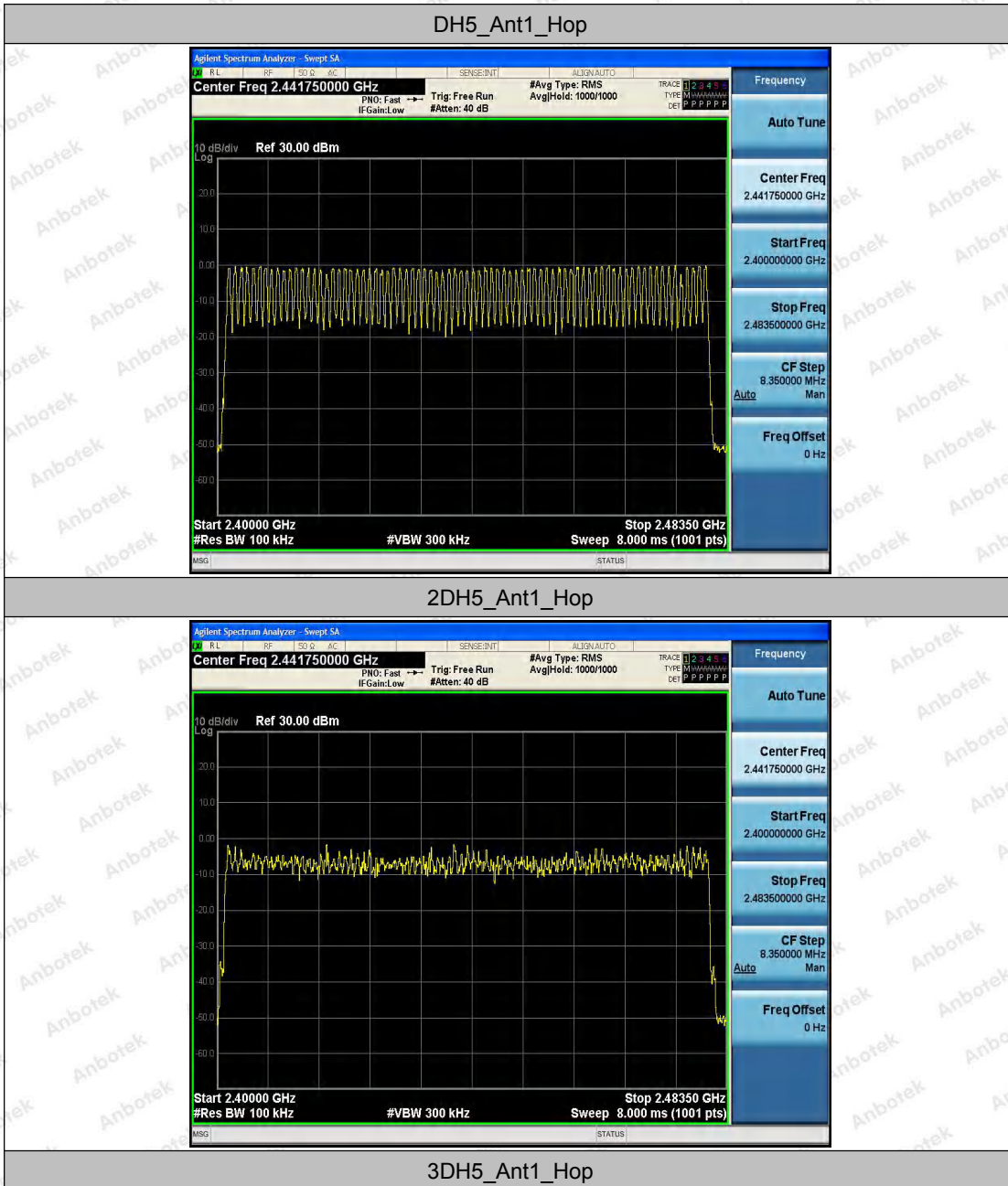
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Appendix F: Number of hopping channels

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

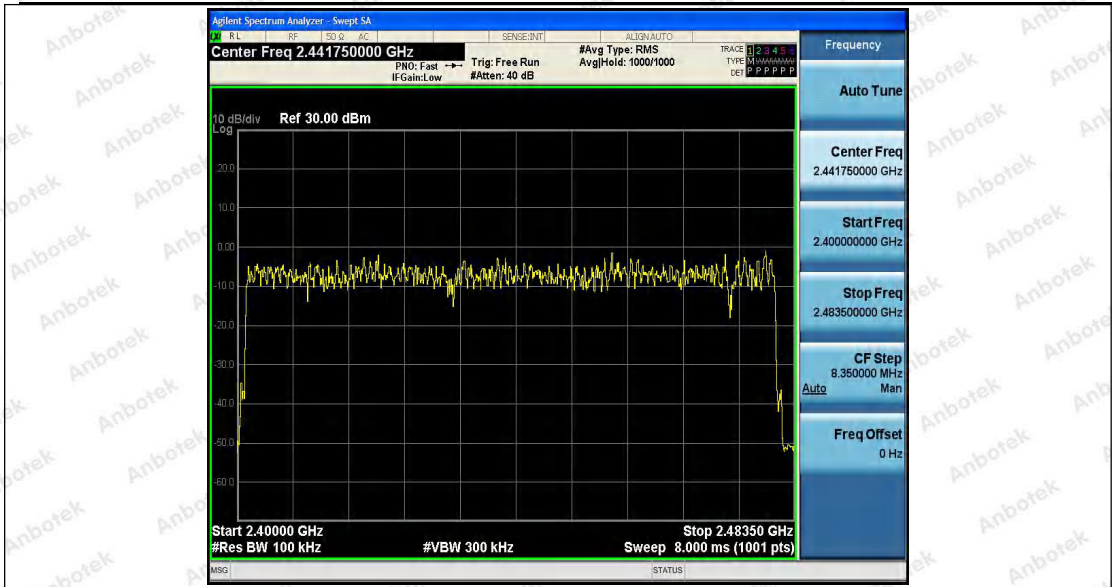


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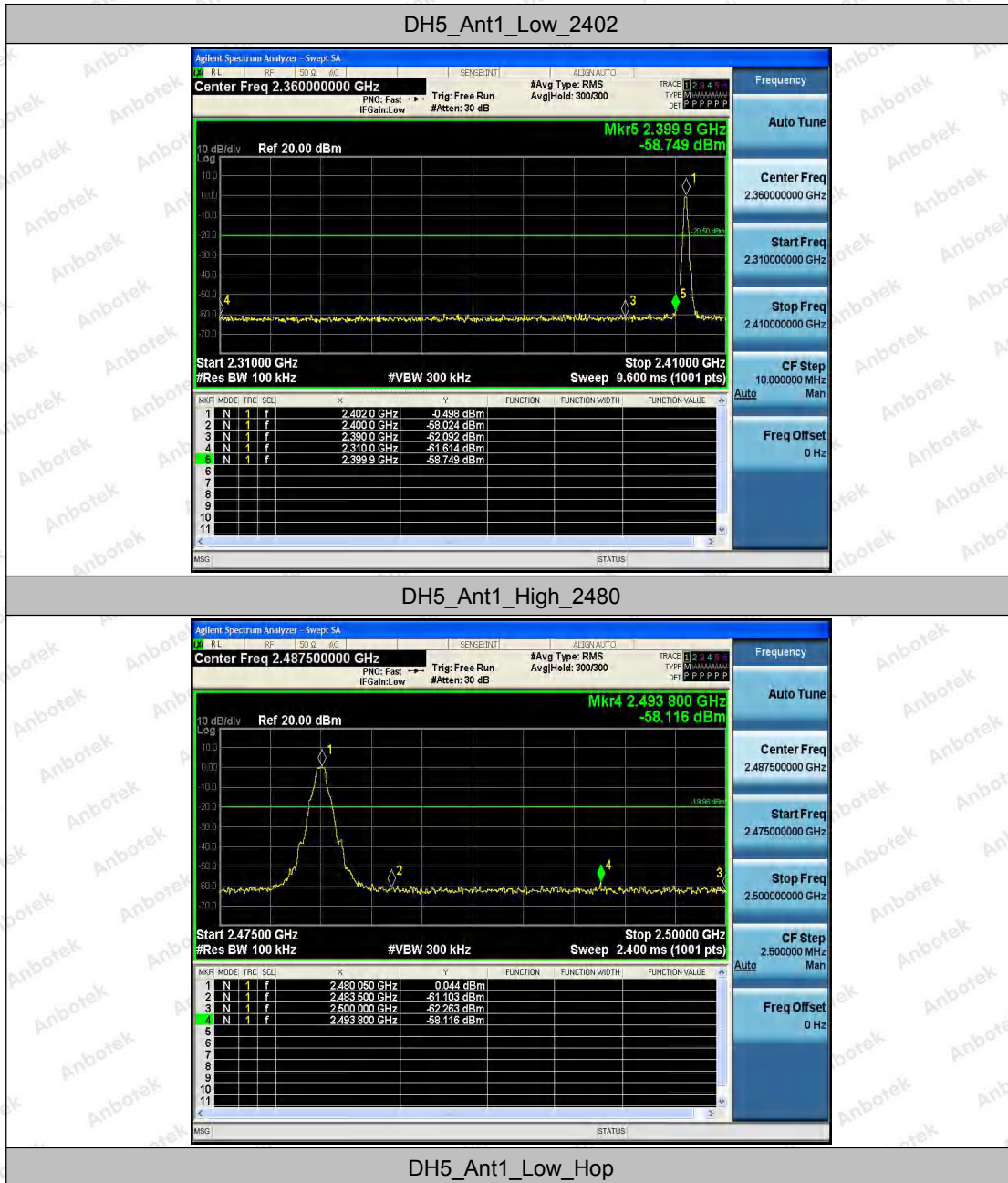
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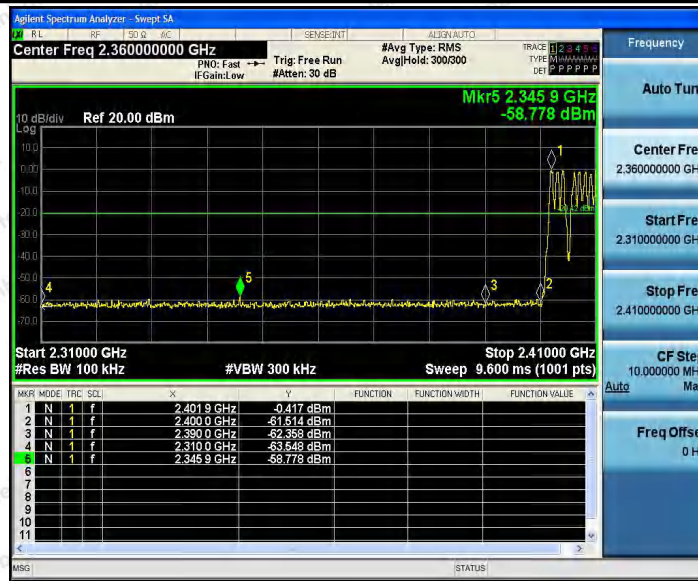
Appendix G: Band edge measurements

Test Result

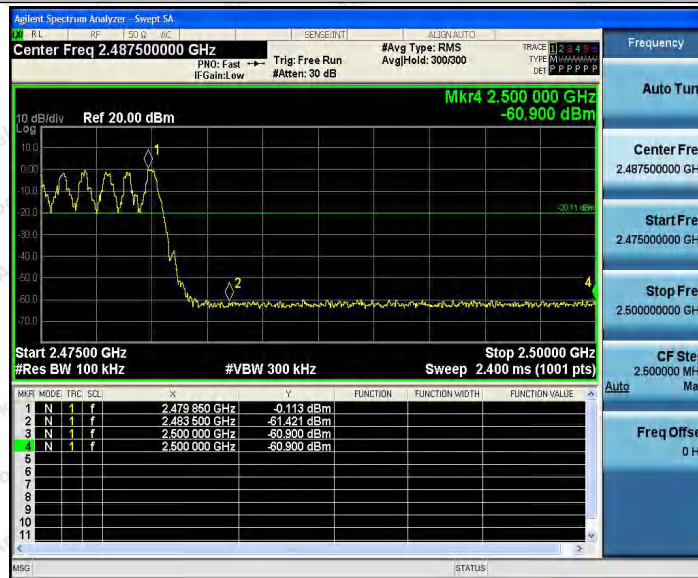
Test Mode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.50	-58.75	≤-20.5	PASS
		High	2480	0.04	-58.12	≤-19.96	PASS
		Low	Hop	-0.42	-58.78	≤-20.42	PASS
		High	Hop	-0.11	-60.9	≤-20.11	PASS
2DH5	Ant1	Low	2402	-1.76	-56.27	≤-21.76	PASS
		High	2480	-1.31	-59.63	≤-21.31	PASS
		Low	Hop	-3.27	-59.94	≤-23.27	PASS
		High	Hop	-1.92	-62.35	≤-21.92	PASS
3DH5	Ant1	Low	2402	-1.74	-57.52	≤-21.74	PASS
		High	2480	-0.86	-58.98	≤-20.86	PASS
		Low	Hop	-4.16	-59.25	≤-24.16	PASS
		High	Hop	-1.33	-61.94	≤-21.33	PASS

Test Graphs

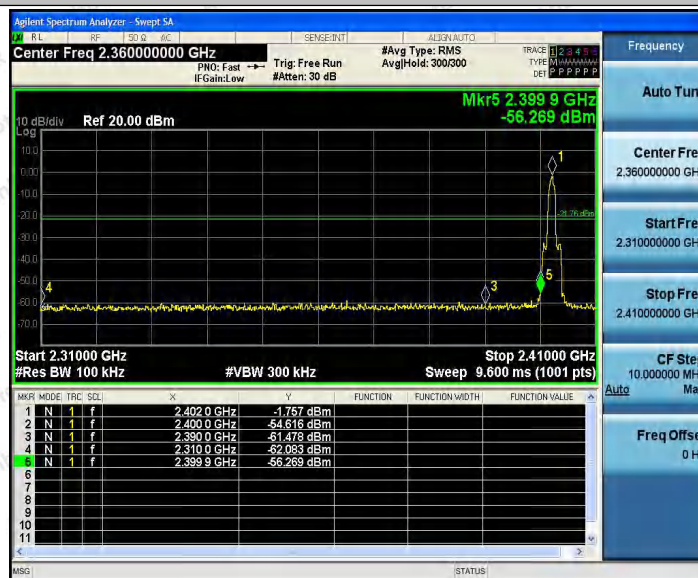

DH5_Ant1_High_2480
DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



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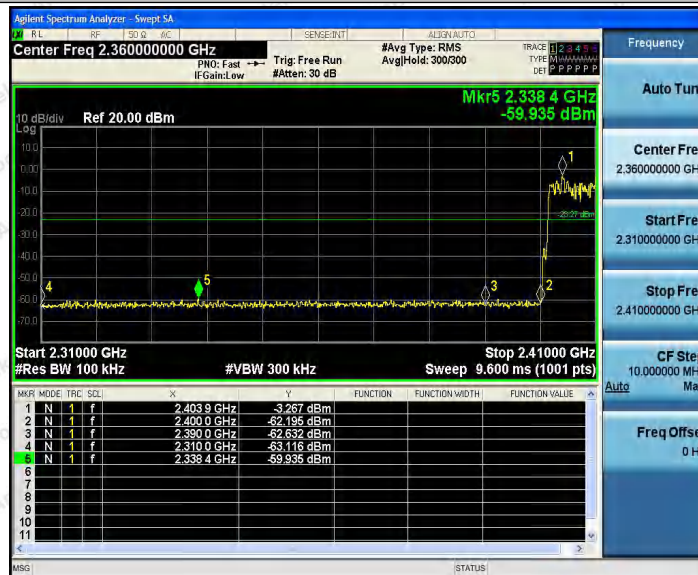
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



2DH5_Ant1_High_Hop

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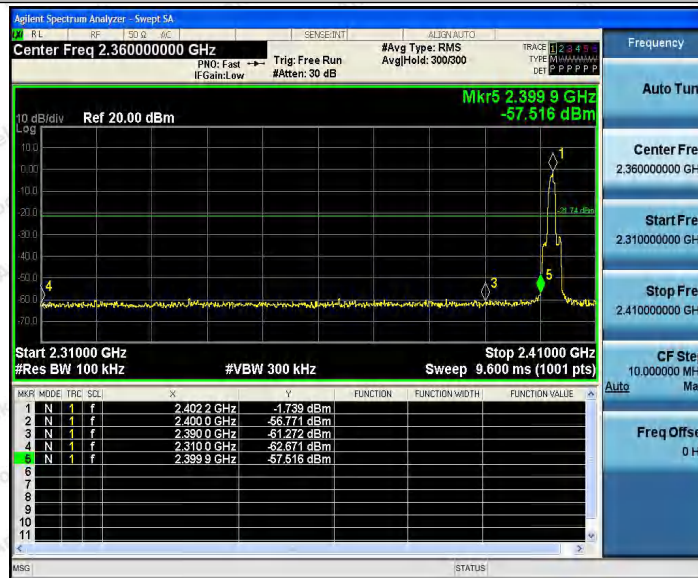
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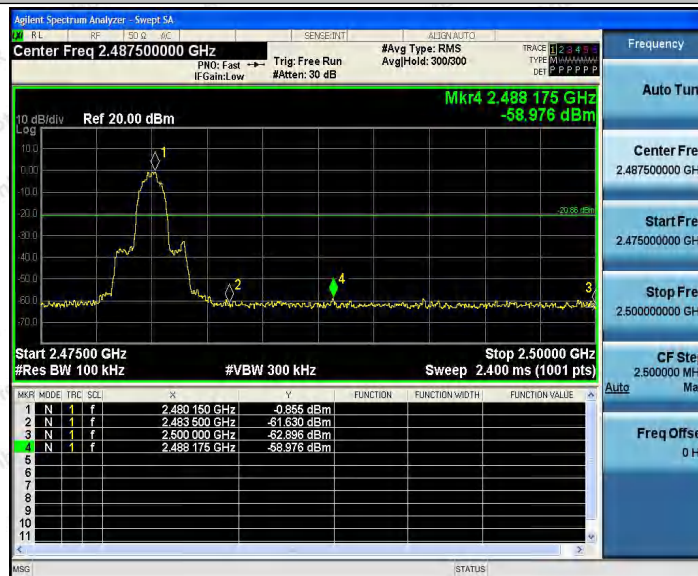
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



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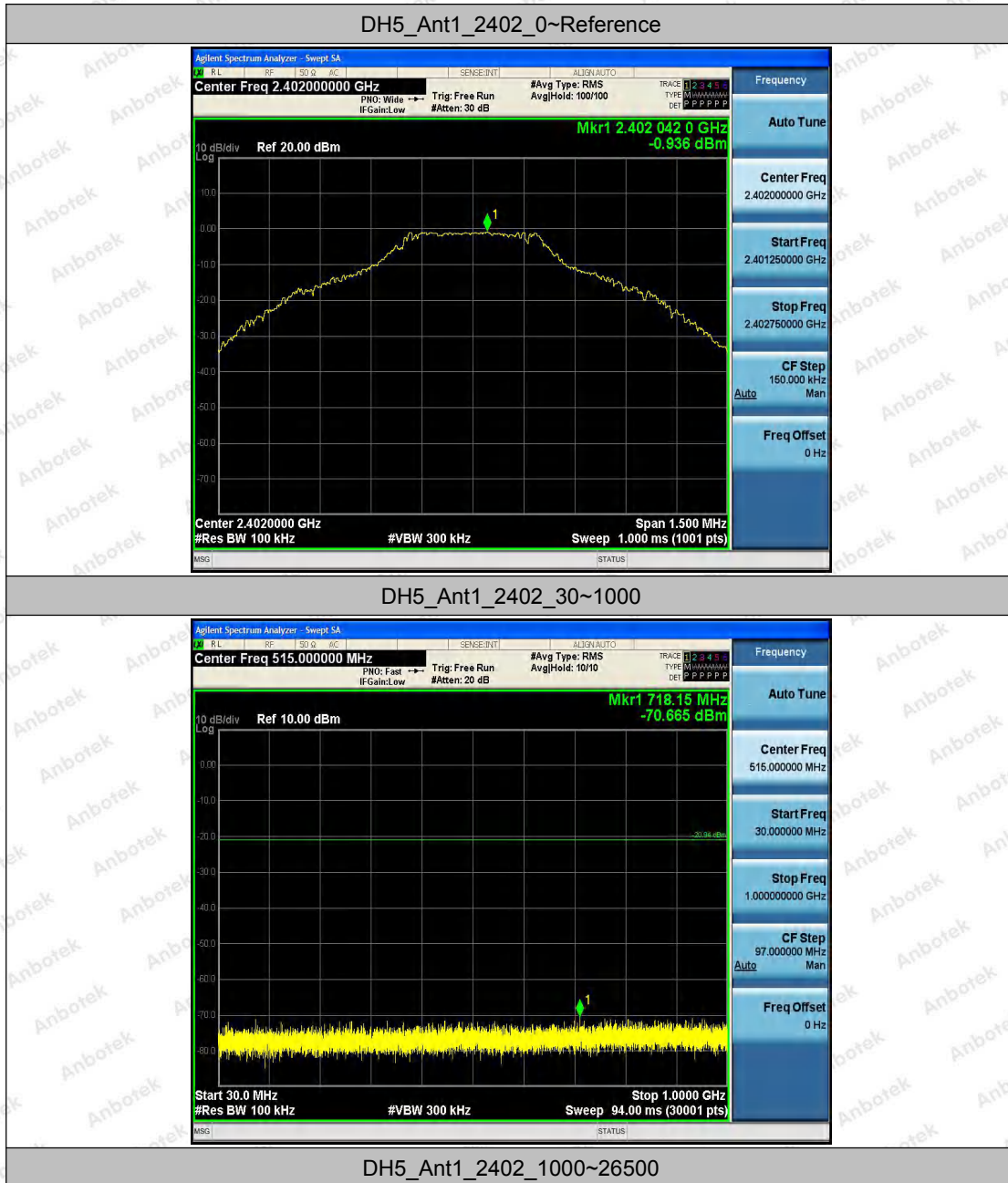
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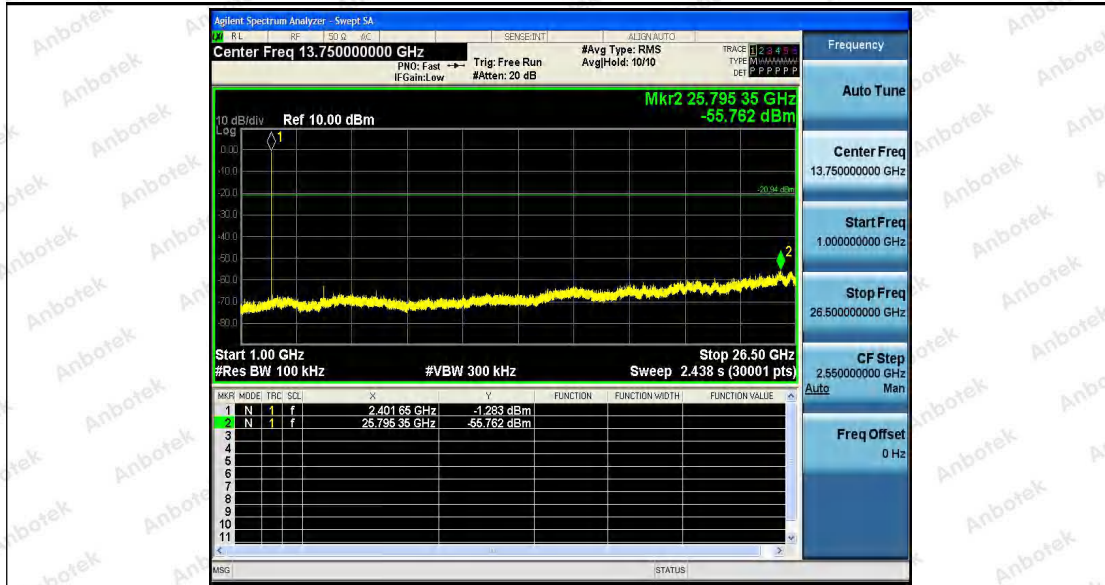
Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.94	-0.94	---	PASS
			30~1000	-0.94	-70.67	≤-20.94	PASS
			1000~26500	-0.94	-55.76	≤-20.94	PASS
		2441	Reference	-1.30	-1.30	---	PASS
			30~1000	-1.30	-70.62	≤-21.3	PASS
			1000~26500	-1.30	-55.19	≤-21.3	PASS
		2480	Reference	-0.31	-0.31	---	PASS
			30~1000	-0.31	-69.81	≤-20.31	PASS
			1000~26500	-0.31	-55.33	≤-20.31	PASS
2DH5	Ant1	2402	Reference	-1.71	-1.71	---	PASS
			30~1000	-1.71	-70.14	≤-21.71	PASS
			1000~26500	-1.71	-54.87	≤-21.71	PASS
		2441	Reference	-2.40	-2.40	---	PASS
			30~1000	-2.40	-70.11	≤-22.4	PASS
			1000~26500	-2.40	-55.63	≤-22.4	PASS
		2480	Reference	-1.54	-1.54	---	PASS
			30~1000	-1.54	-70.11	≤-21.54	PASS
			1000~26500	-1.54	-55.07	≤-21.54	PASS
3DH5	Ant1	2402	Reference	-1.39	-1.39	---	PASS
			30~1000	-1.39	-70.59	≤-21.39	PASS
			1000~26500	-1.39	-55.68	≤-21.39	PASS
		2441	Reference	-1.83	-1.83	---	PASS
			30~1000	-1.83	-70.22	≤-21.83	PASS
			1000~26500	-1.83	-55.28	≤-21.83	PASS
		2480	Reference	-0.93	-0.93	---	PASS
			30~1000	-0.93	-70.11	≤-20.93	PASS
			1000~26500	-0.93	-55.75	≤-20.93	PASS

Test Graphs

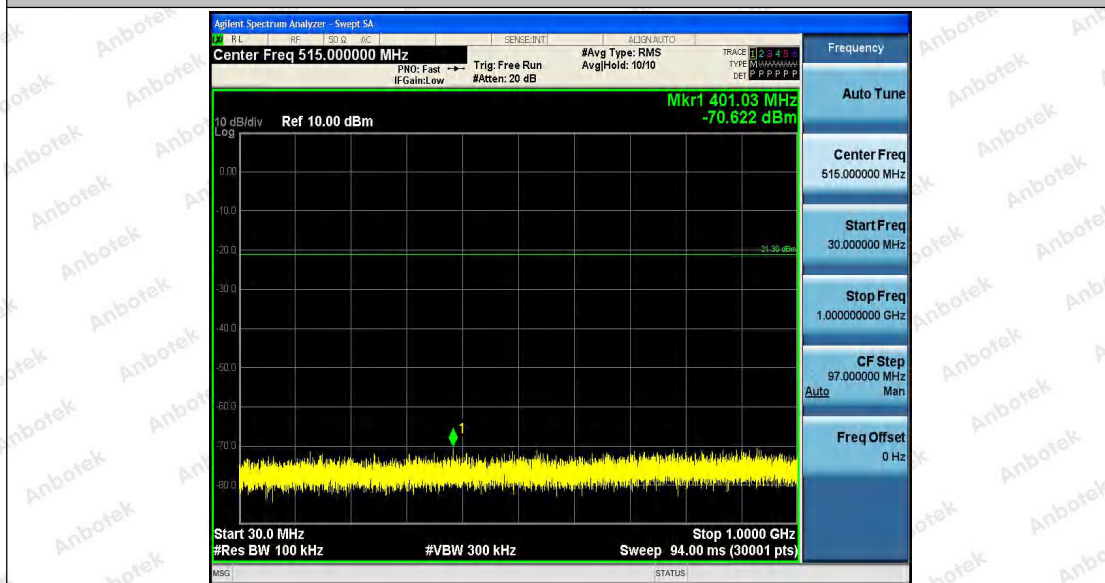




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

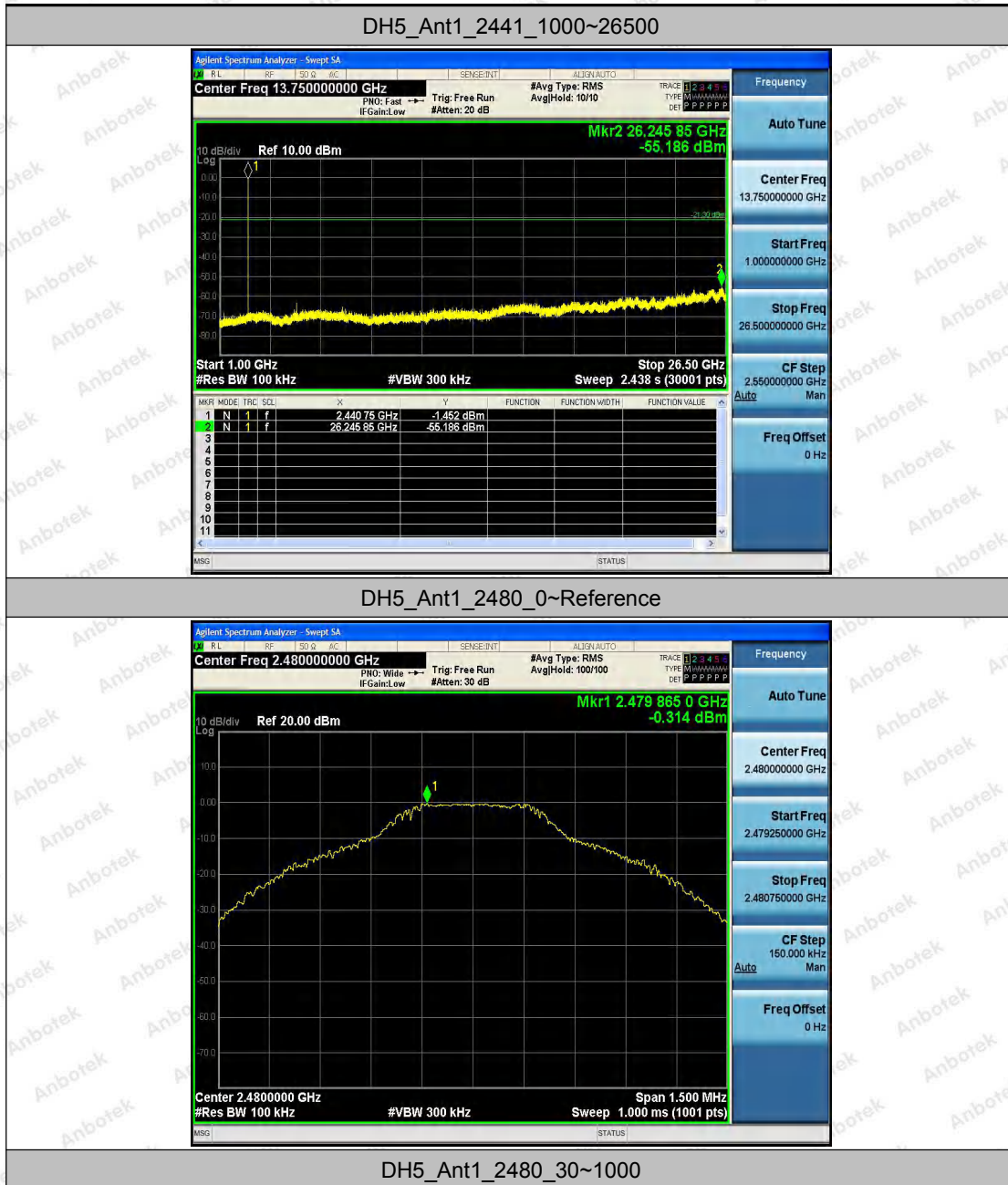


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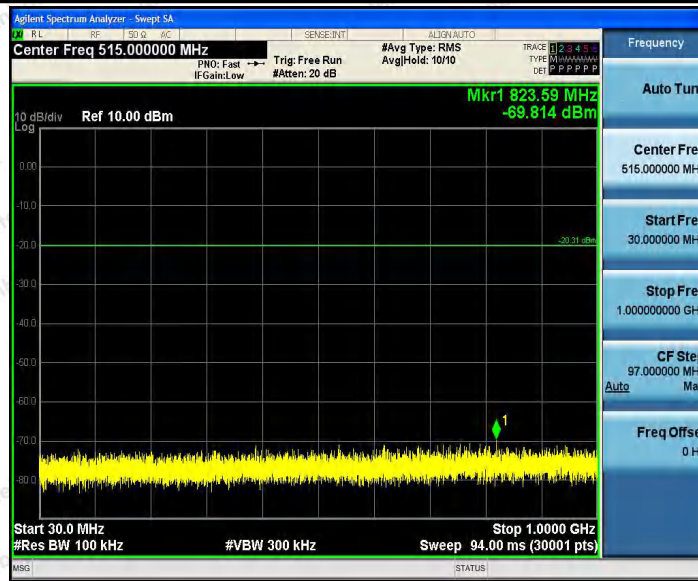
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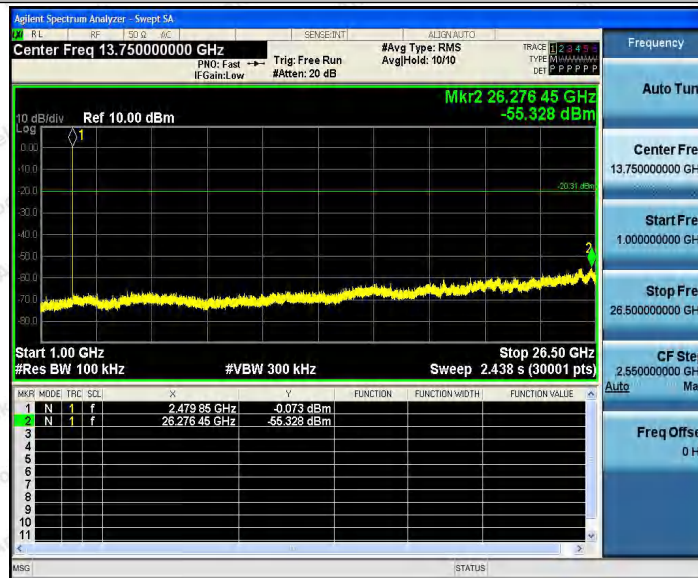
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

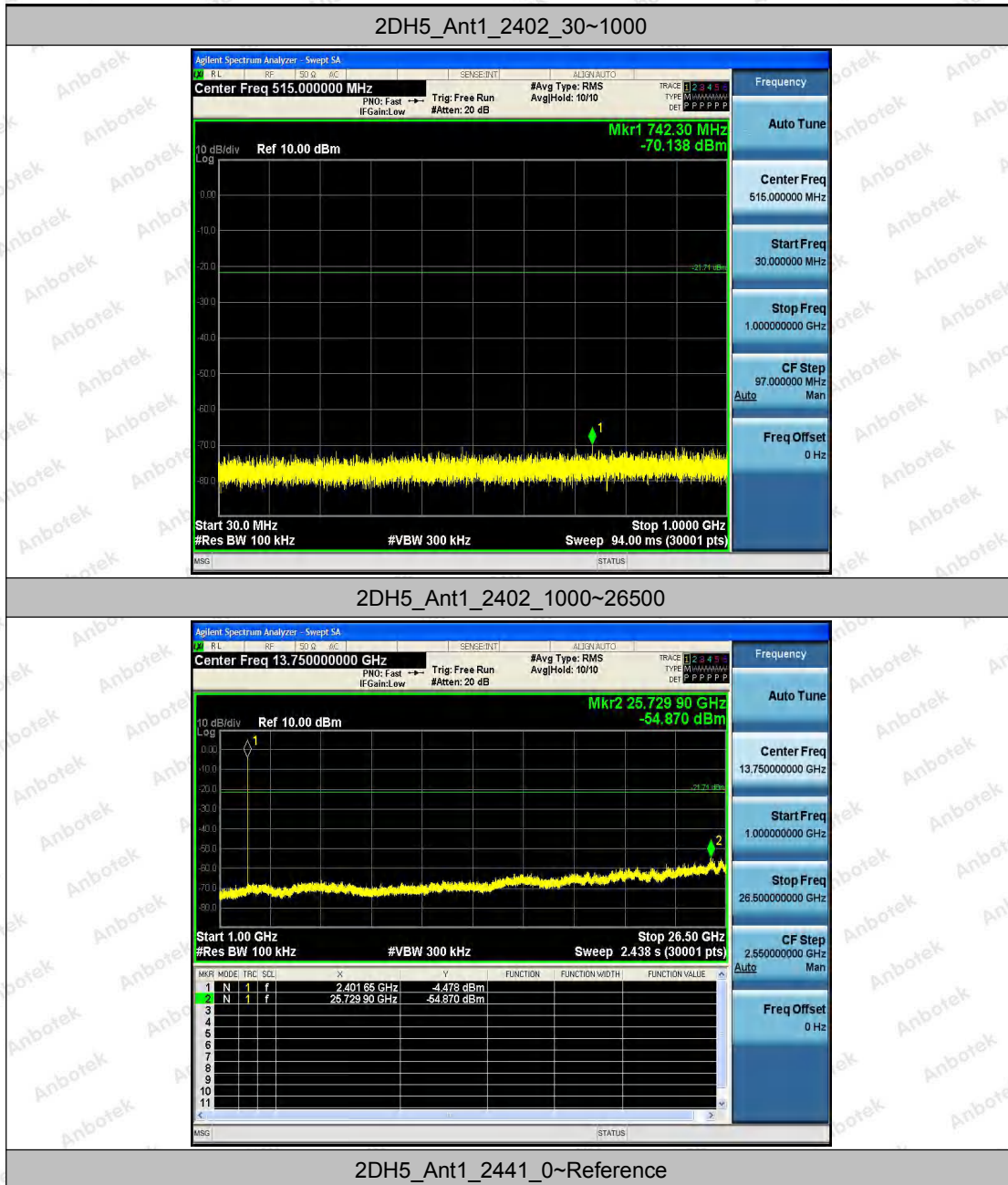


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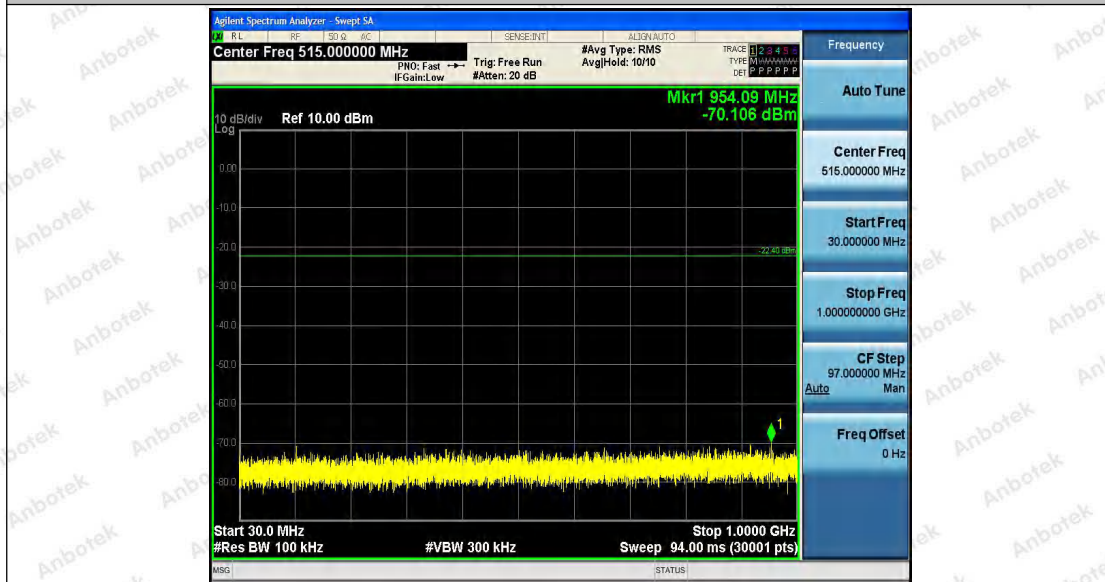
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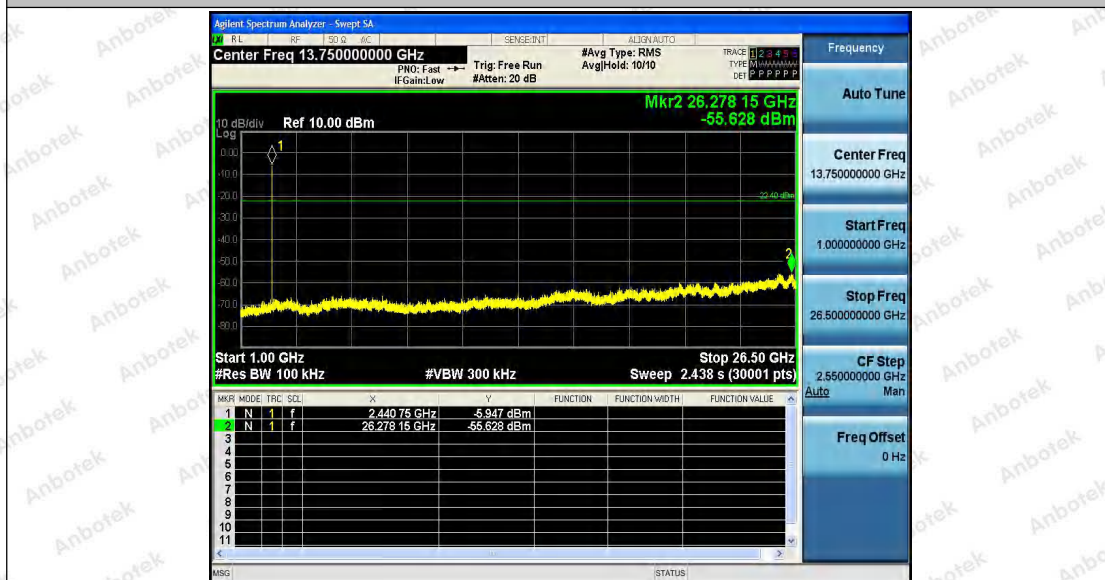
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

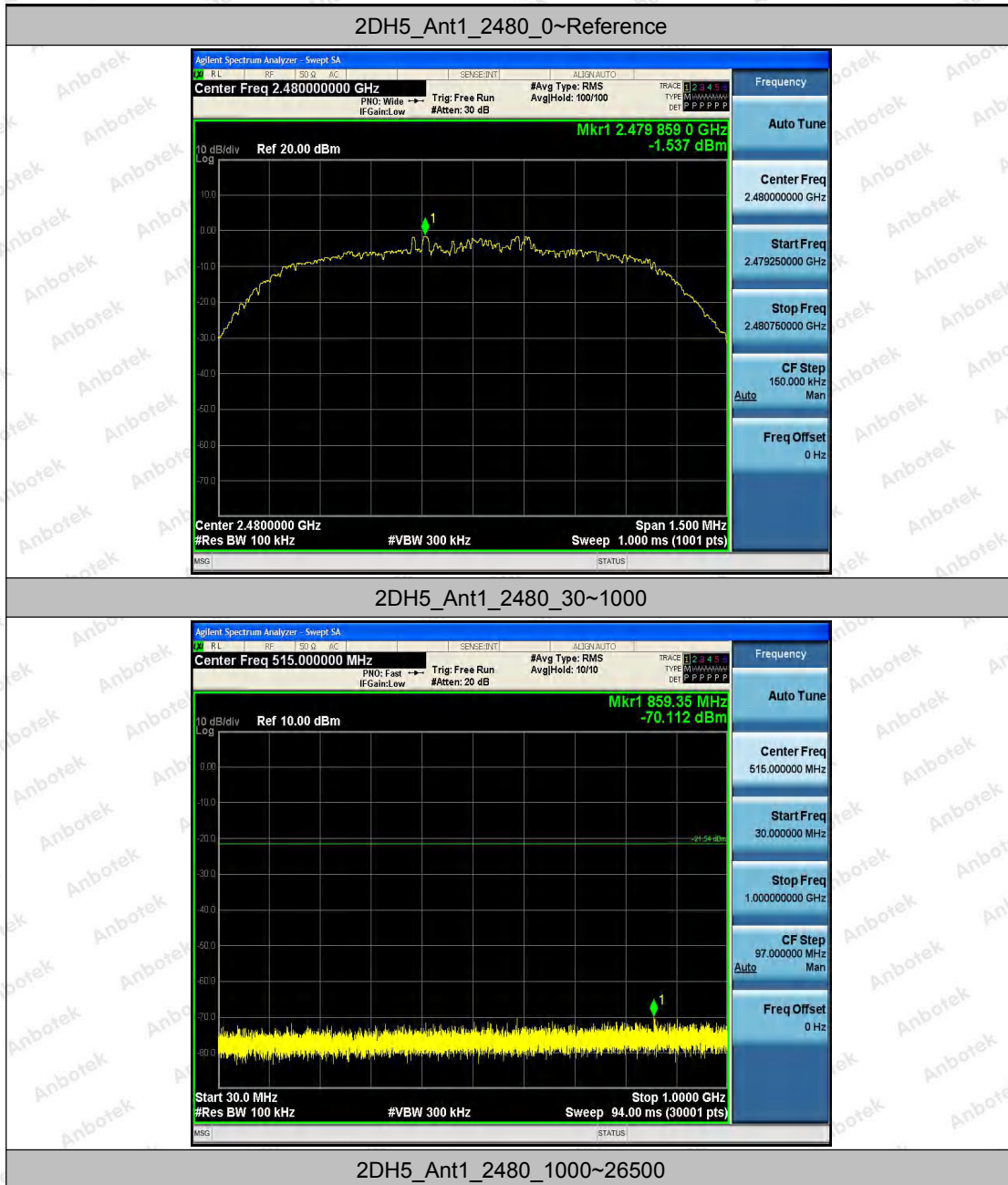


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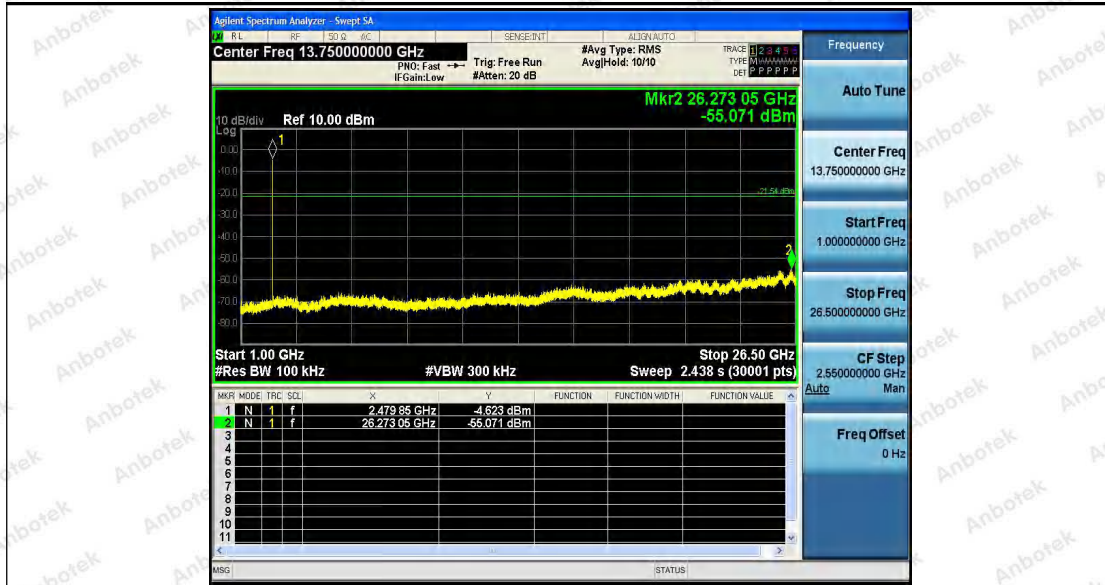


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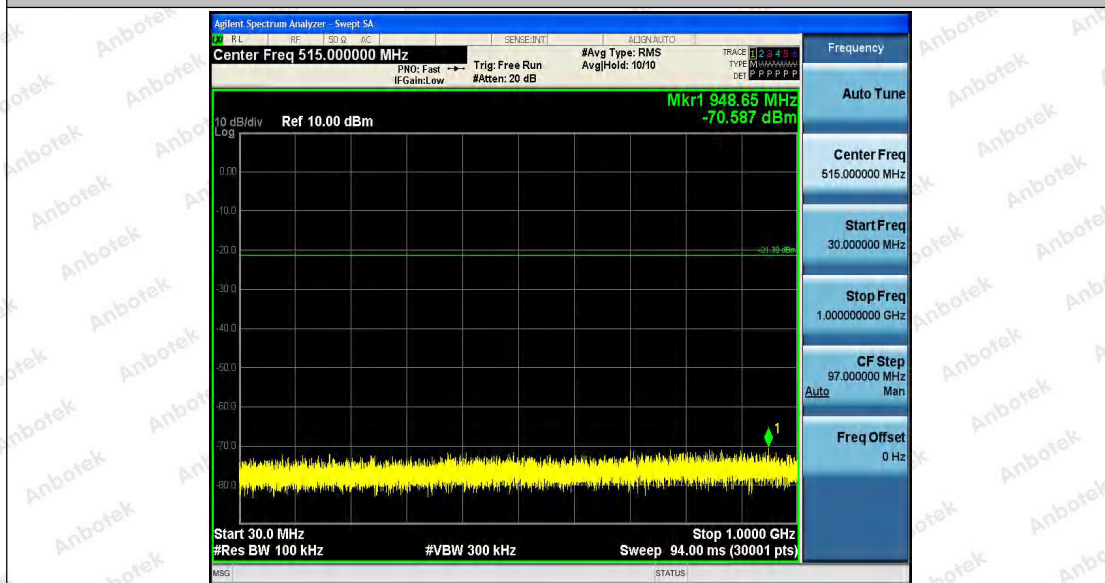
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000

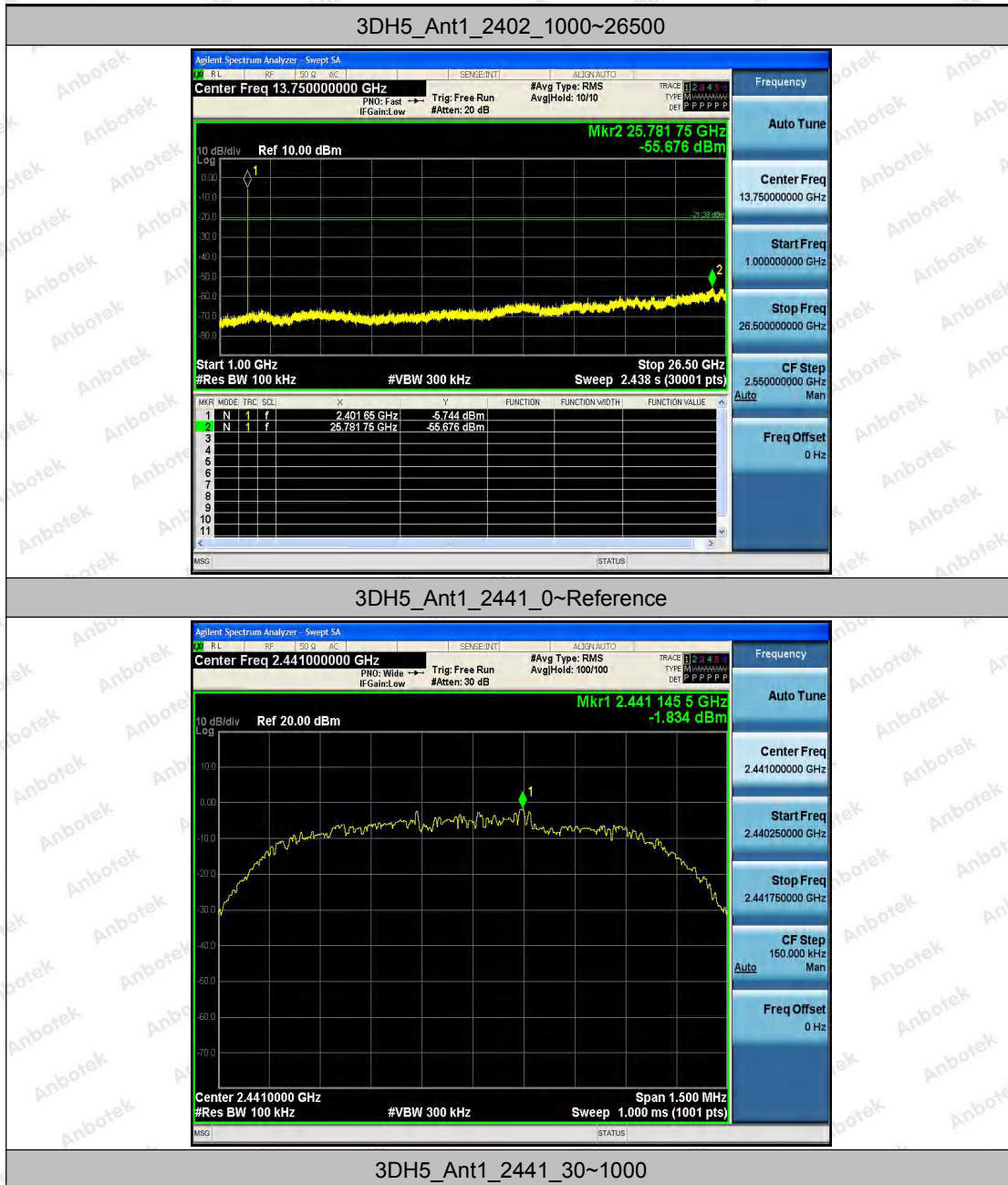


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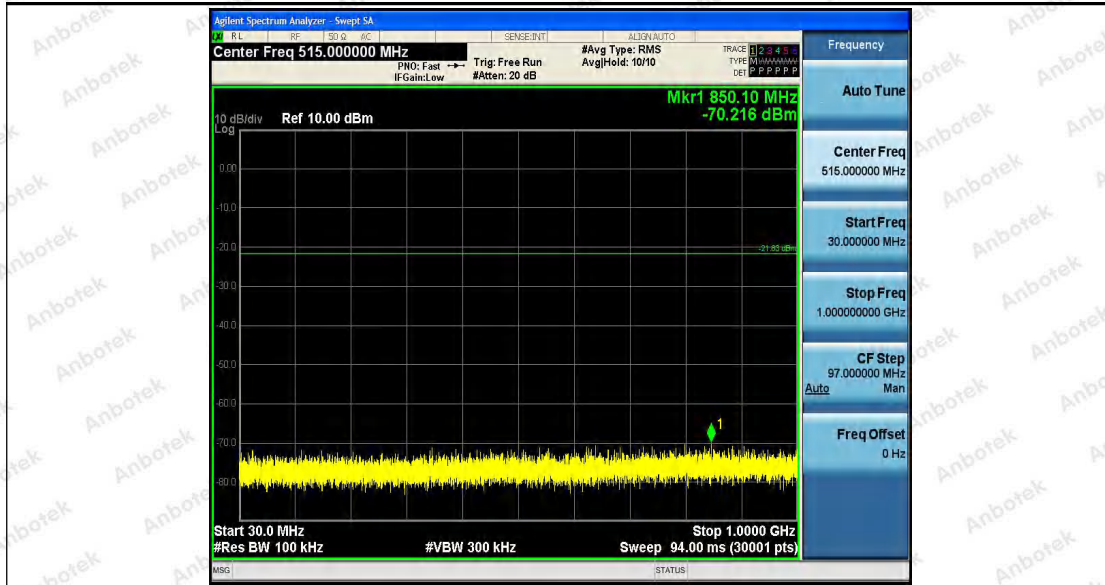


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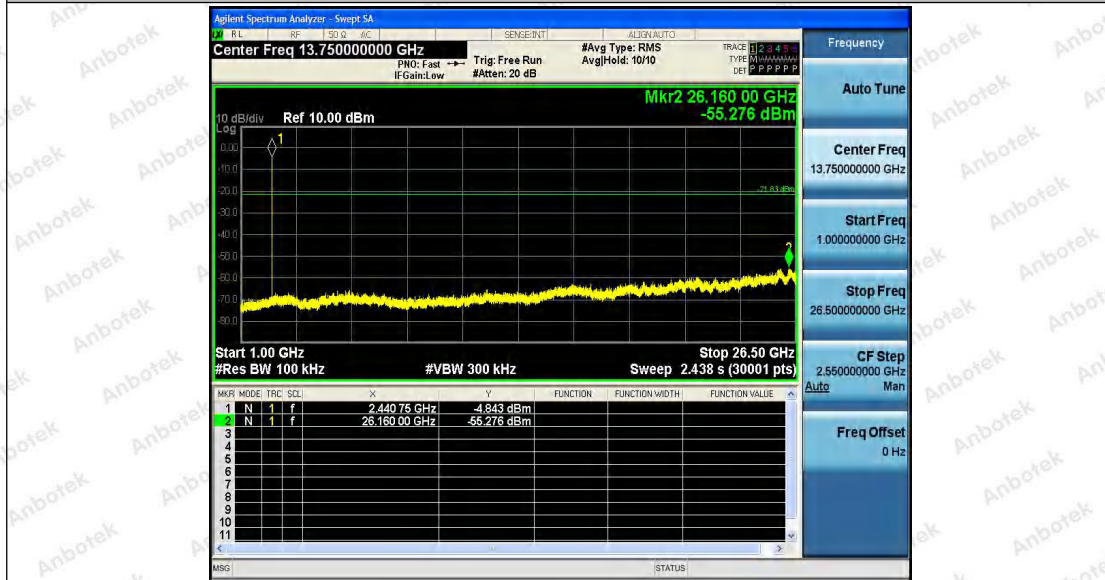
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

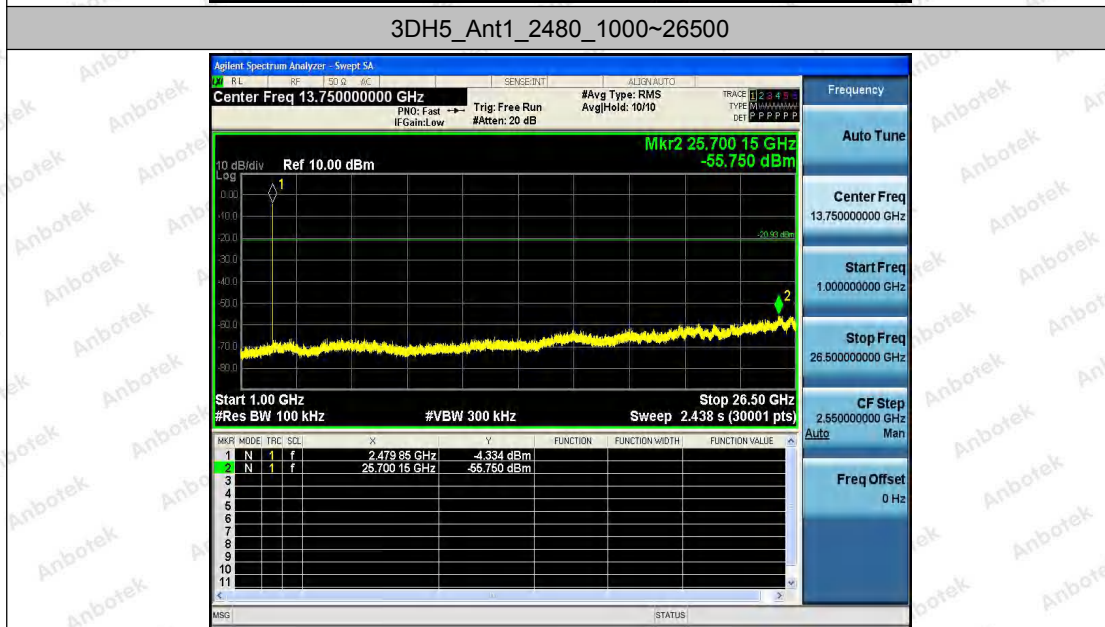
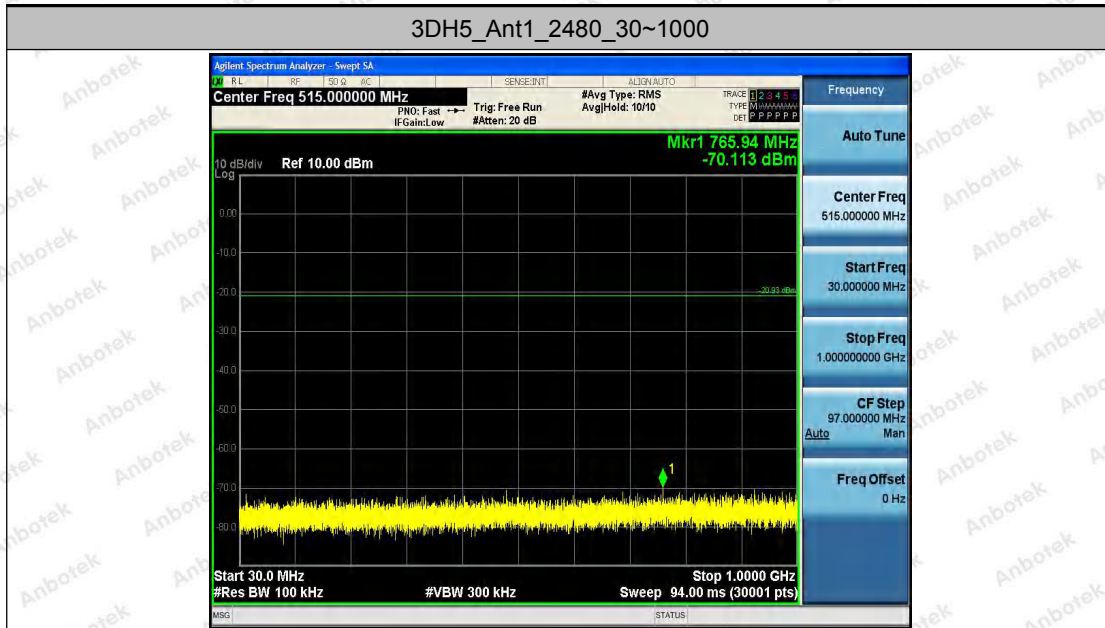


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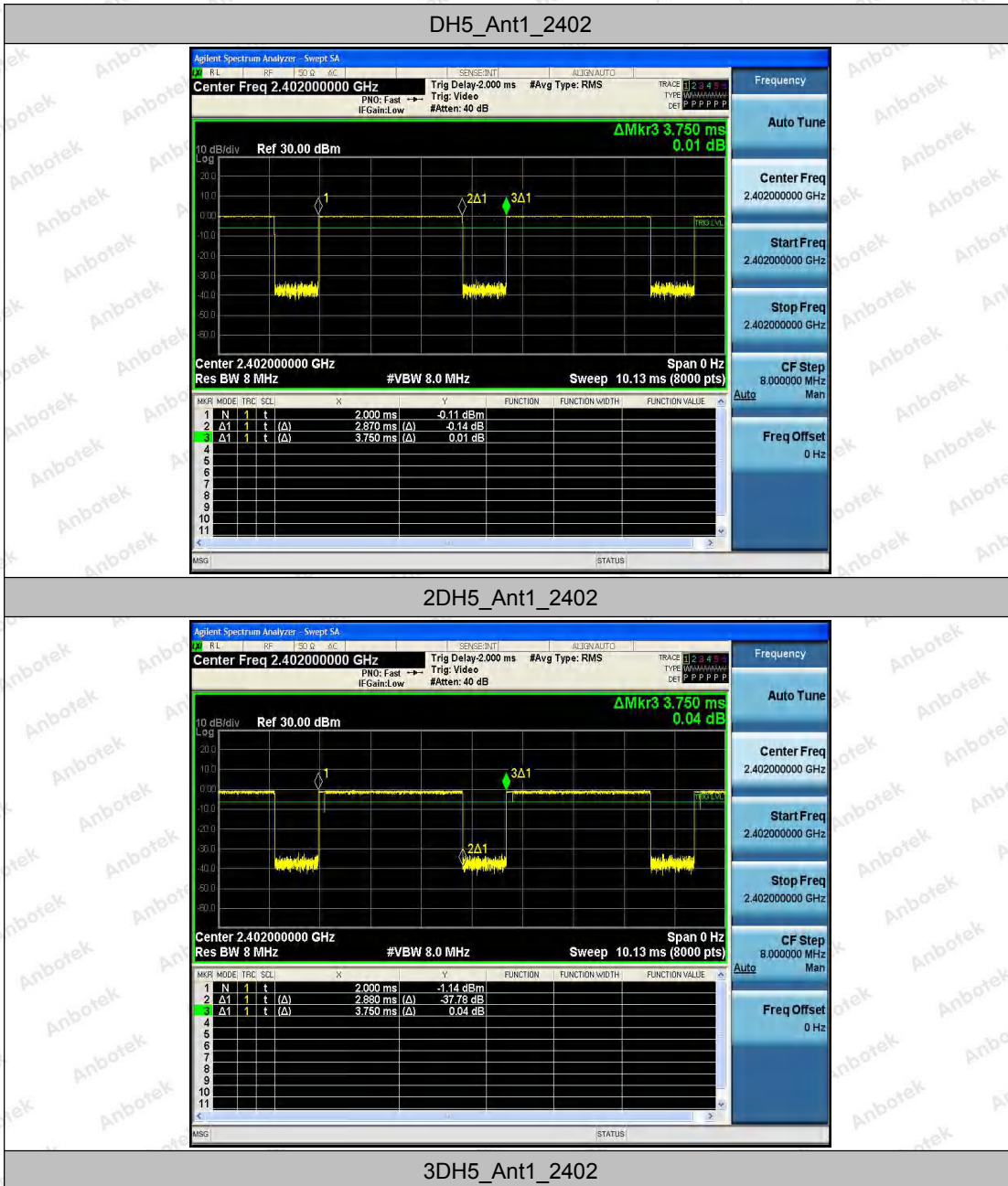
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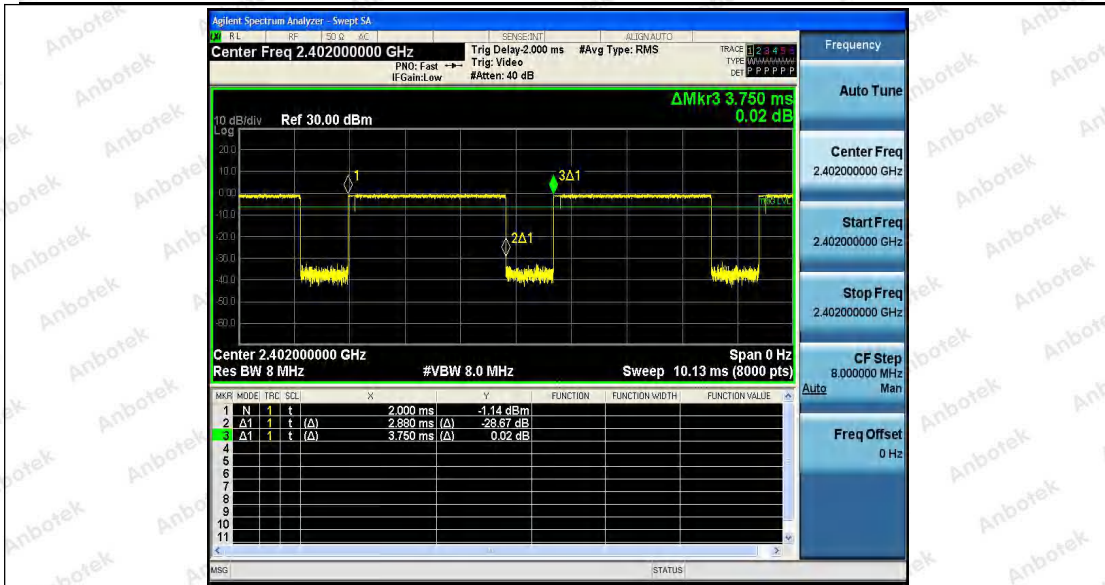
Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	0.7653	76.53	1.16	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS

Test Graphs





---End---