

Appendix Test Data

Report No.:	18220WC20049201	Test Sample No.:	1-2-2
Start Test Date:	2022.3.22	Finish Test Date:	2022.3.30
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3℃	Relative Humidity:	56 %
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	0.942	2401.538	2402.480	---	PASS
		2441	0.948	2440.535	2441.483	---	PASS
		2480	0.945	2479.538	2480.483	---	PASS
2DH5	Ant1	2402	1.323	2401.337	2402.660	---	PASS
		2441	1.293	2440.343	2441.636	---	PASS
		2480	1.323	2479.337	2480.660	---	PASS
3DH5	Ant1	2402	1.335	2401.328	2402.663	---	PASS
		2441	1.299	2440.346	2441.645	---	PASS
		2480	1.272	2479.352	2480.624	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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2DH5_Ant1_2480



3DH5_Ant1_2402



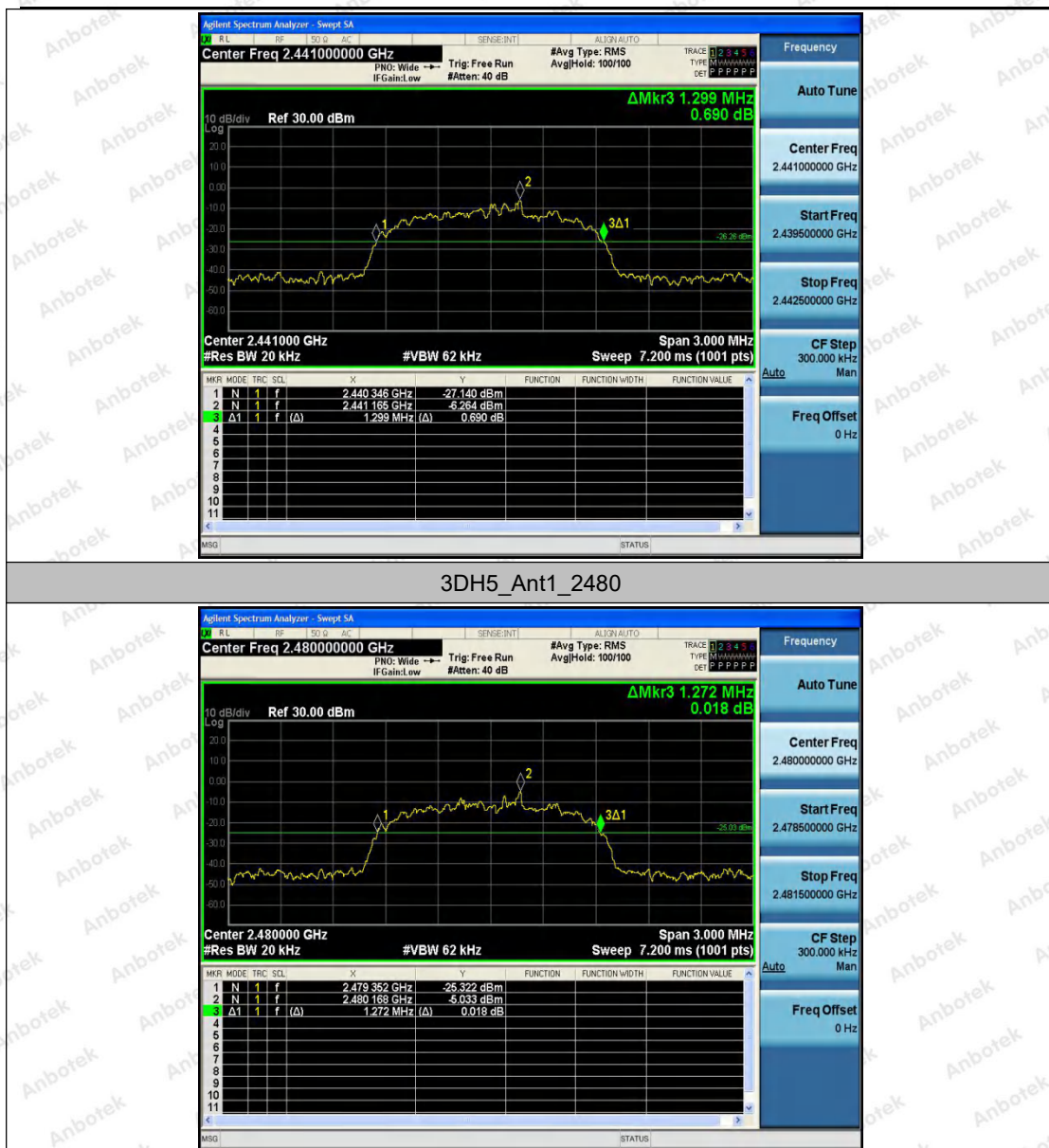
3DH5_Ant1_2441

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Appendix B: Occupied Channel Bandwidth

Test Result

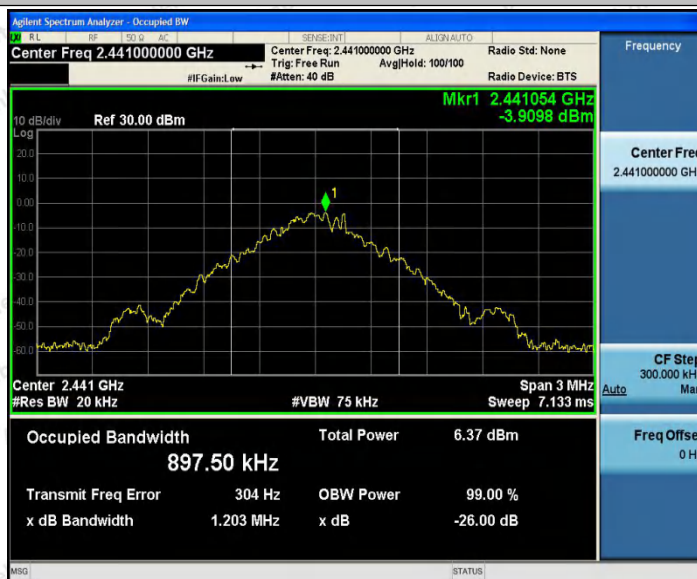
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89433	2401.55 2	2402.447	---	PASS
		2441	0.89750	2440.55 2	2441.449	---	PASS
		2480	0.88791	2479.55 5	2480.443	---	PASS
2DH5	Ant1	2402	1.1959	2401.40 2	2402.598	---	PASS
		2441	1.1974	2440.40 1	2441.598	---	PASS
		2480	1.1929	2479.40 3	2480.596	---	PASS
3DH5	Ant1	2402	1.2149	2401.38 3	2402.598	---	PASS
		2441	1.2119	2440.38 6	2441.598	---	PASS
		2480	1.2017	2479.39 2	2480.593	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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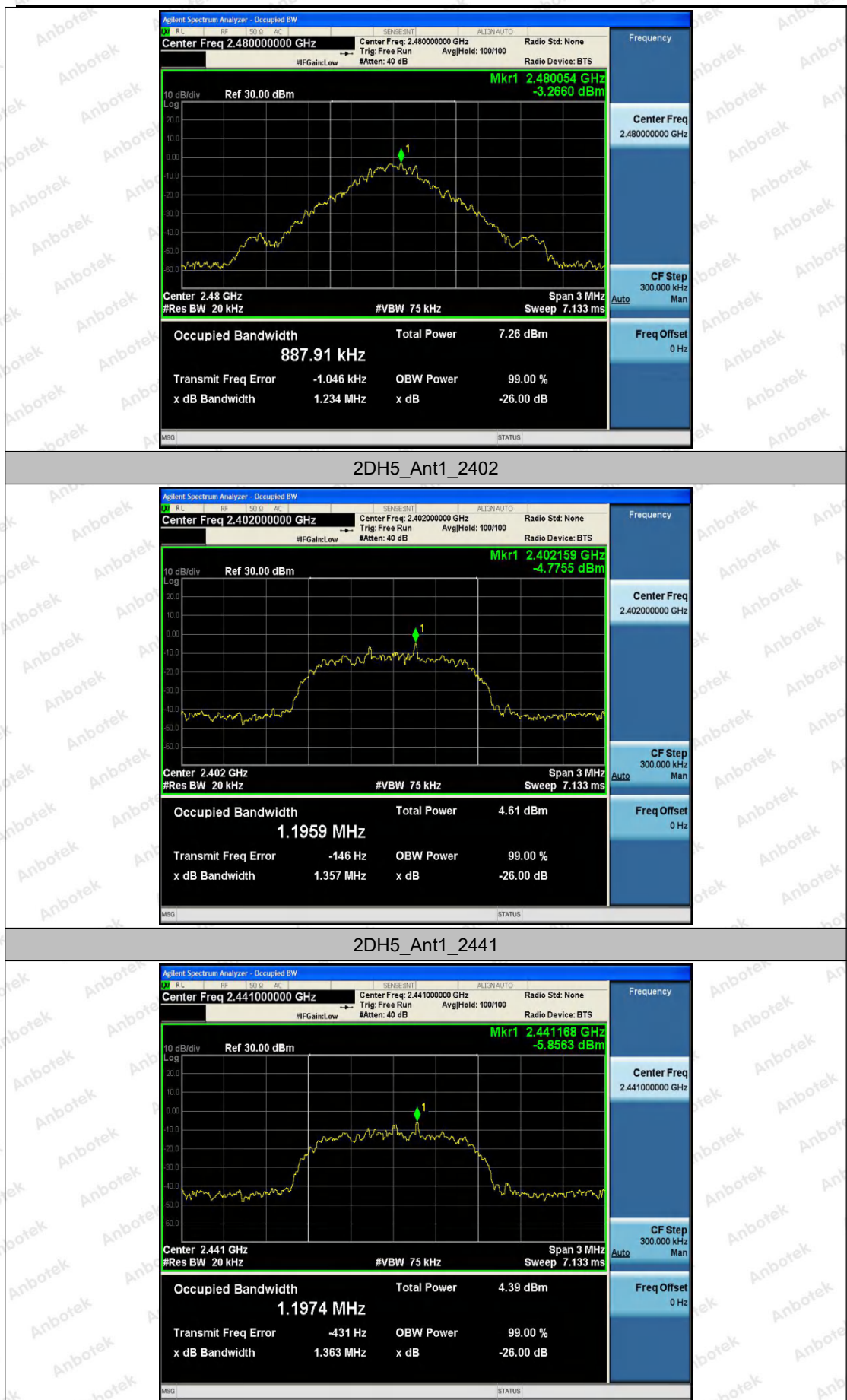
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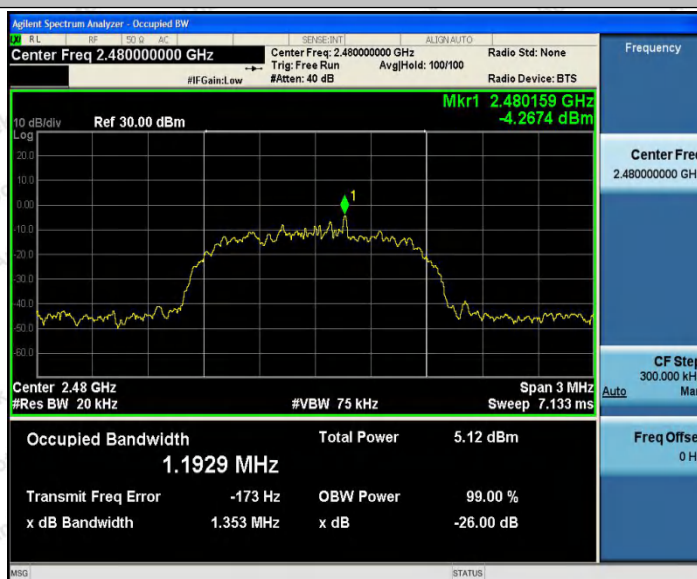
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2DH5_Ant1_2480



3DH5_Ant1_2402



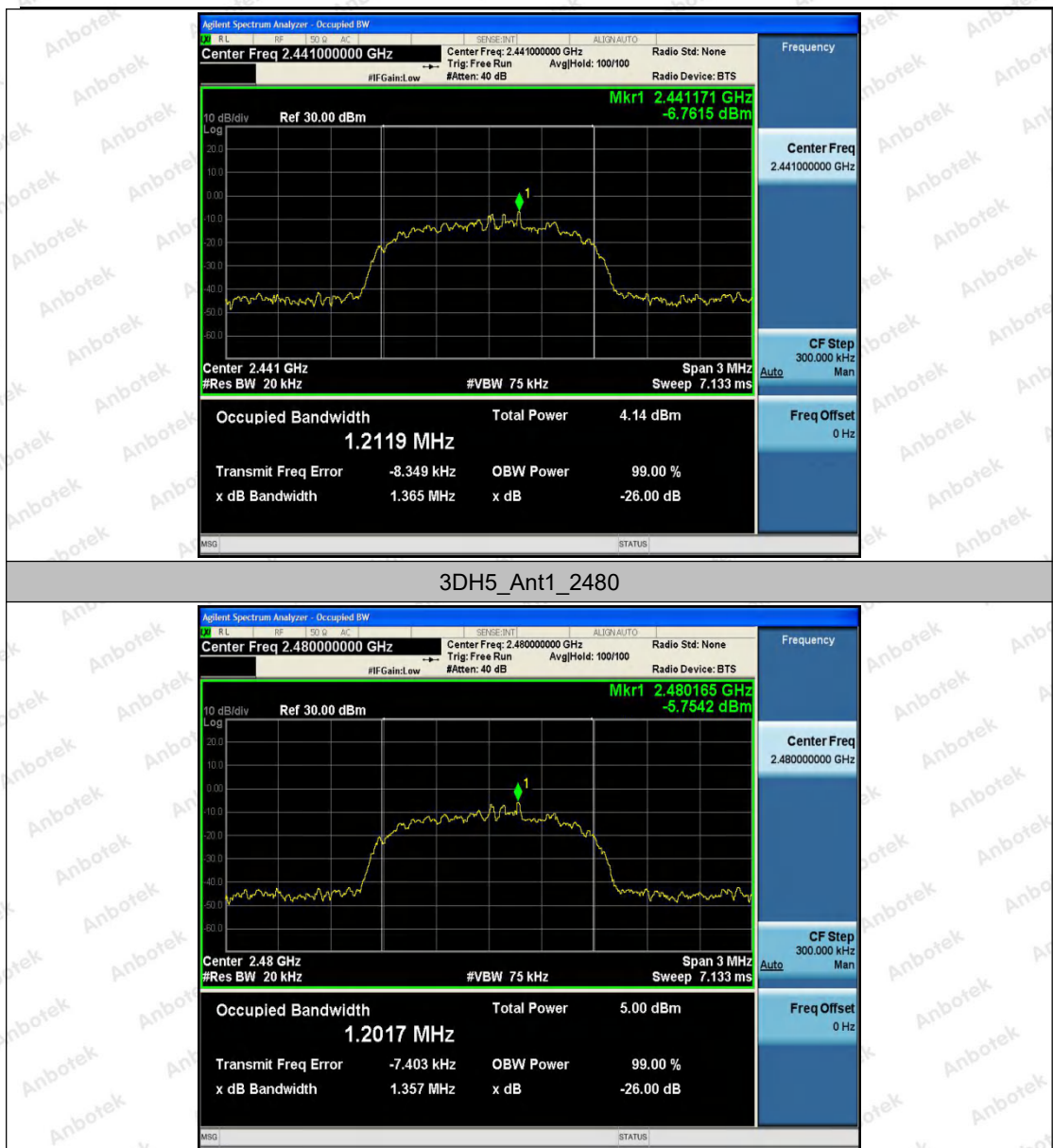
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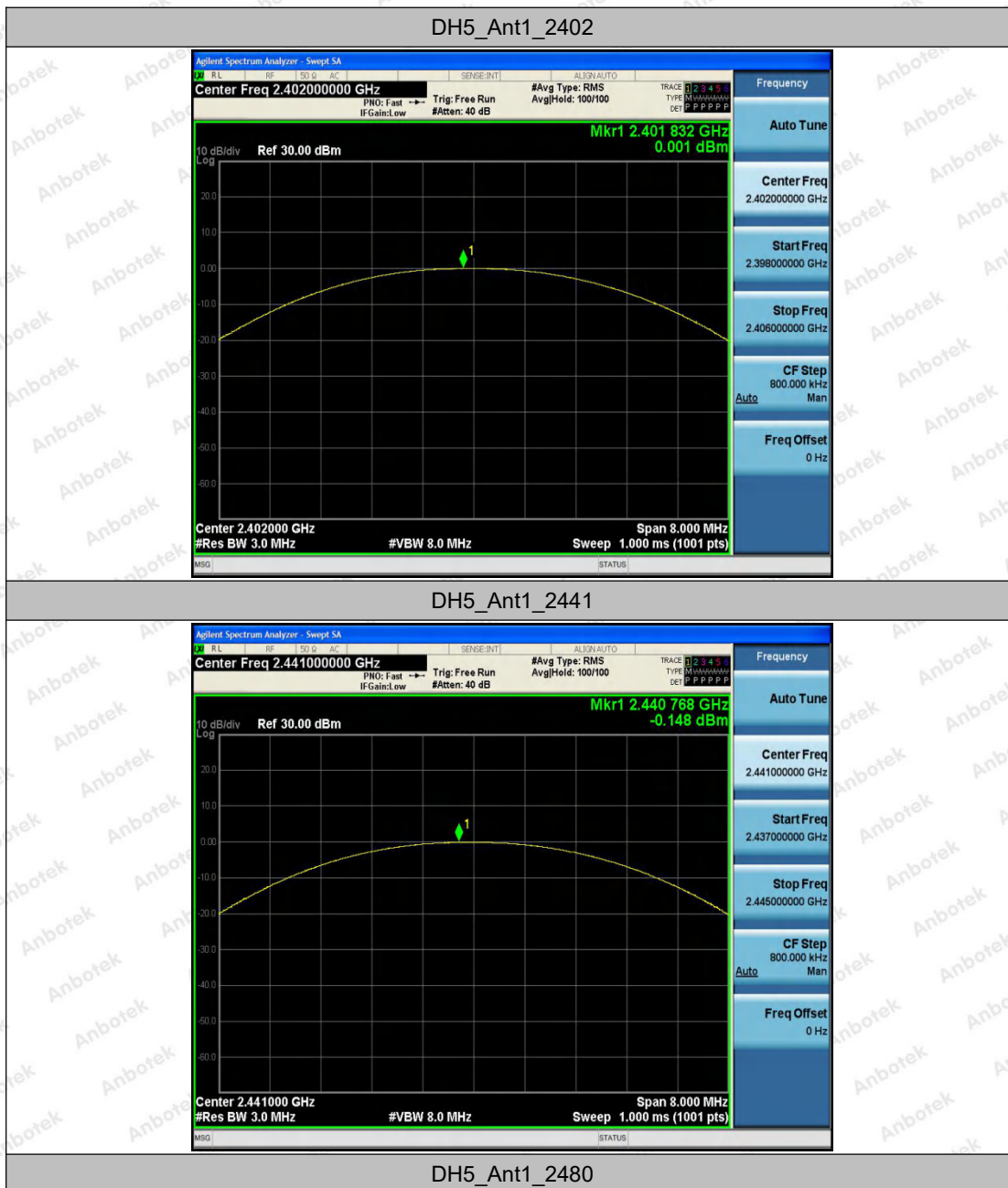
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0	≤20.97	PASS
		2441	-0.15	≤20.97	PASS
		2480	0.35	≤20.97	PASS
2DH5	Ant1	2402	-0.64	≤20.97	PASS
		2441	-0.78	≤20.97	PASS
		2480	-0.07	≤20.97	PASS
3DH5	Ant1	2402	-0.53	≤20.97	PASS
		2441	-0.73	≤20.97	PASS
		2480	-0.06	≤20.97	PASS

Test Graphs

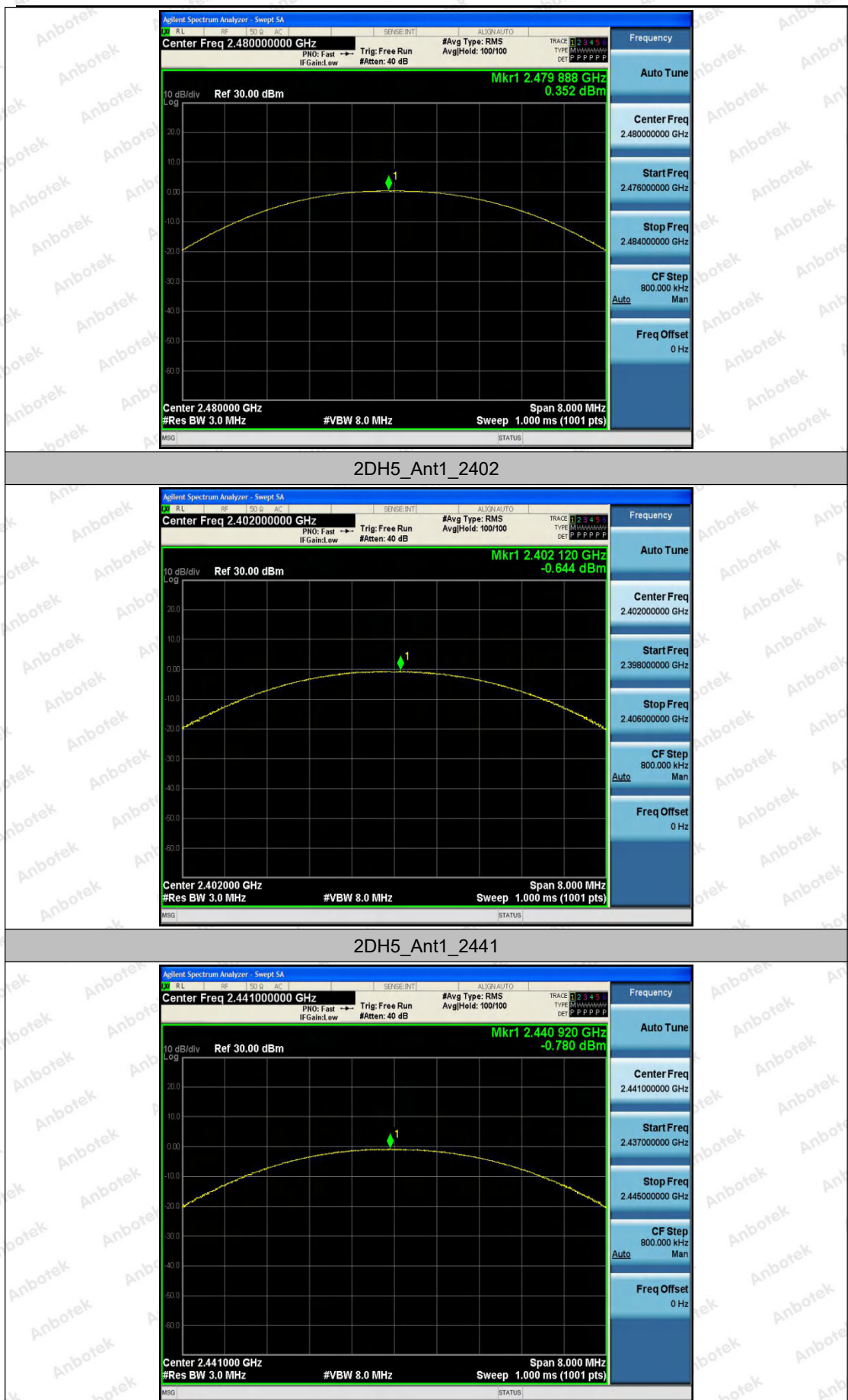


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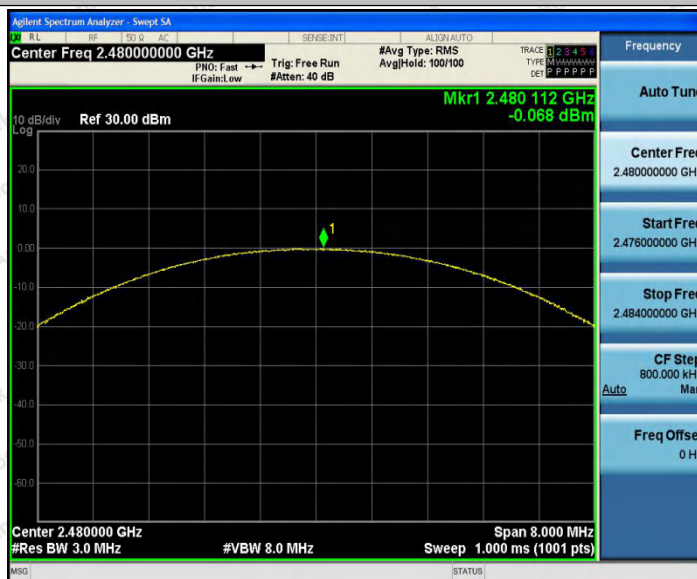
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.024	≥ 0.948	PASS
2DH5	Ant1	Hop	1.05	≥ 0.882	PASS
3DH5	Ant1	Hop	1.294	≥ 0.890	PASS

Test Graphs

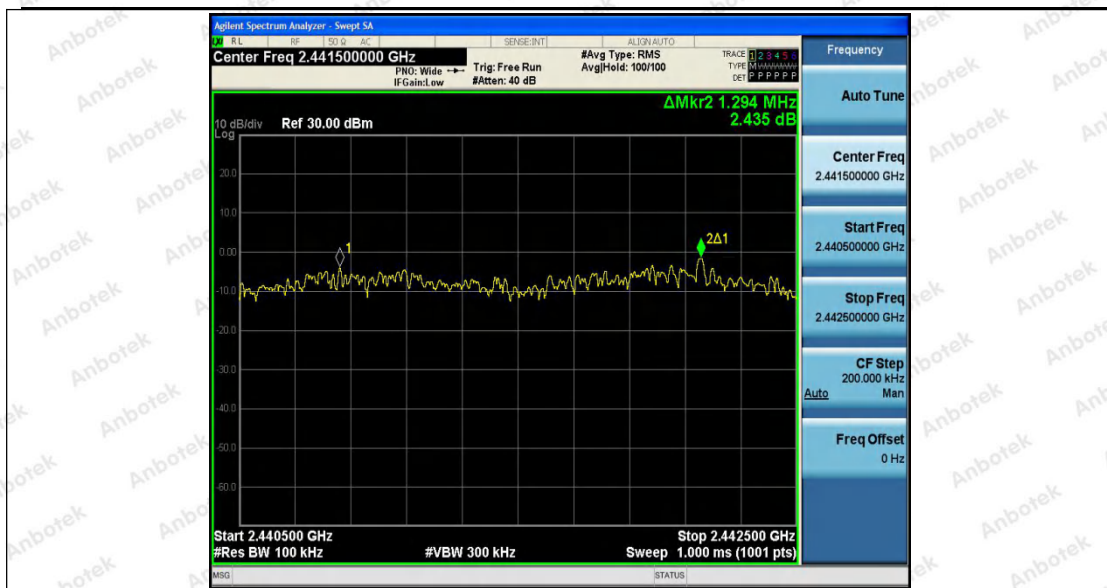


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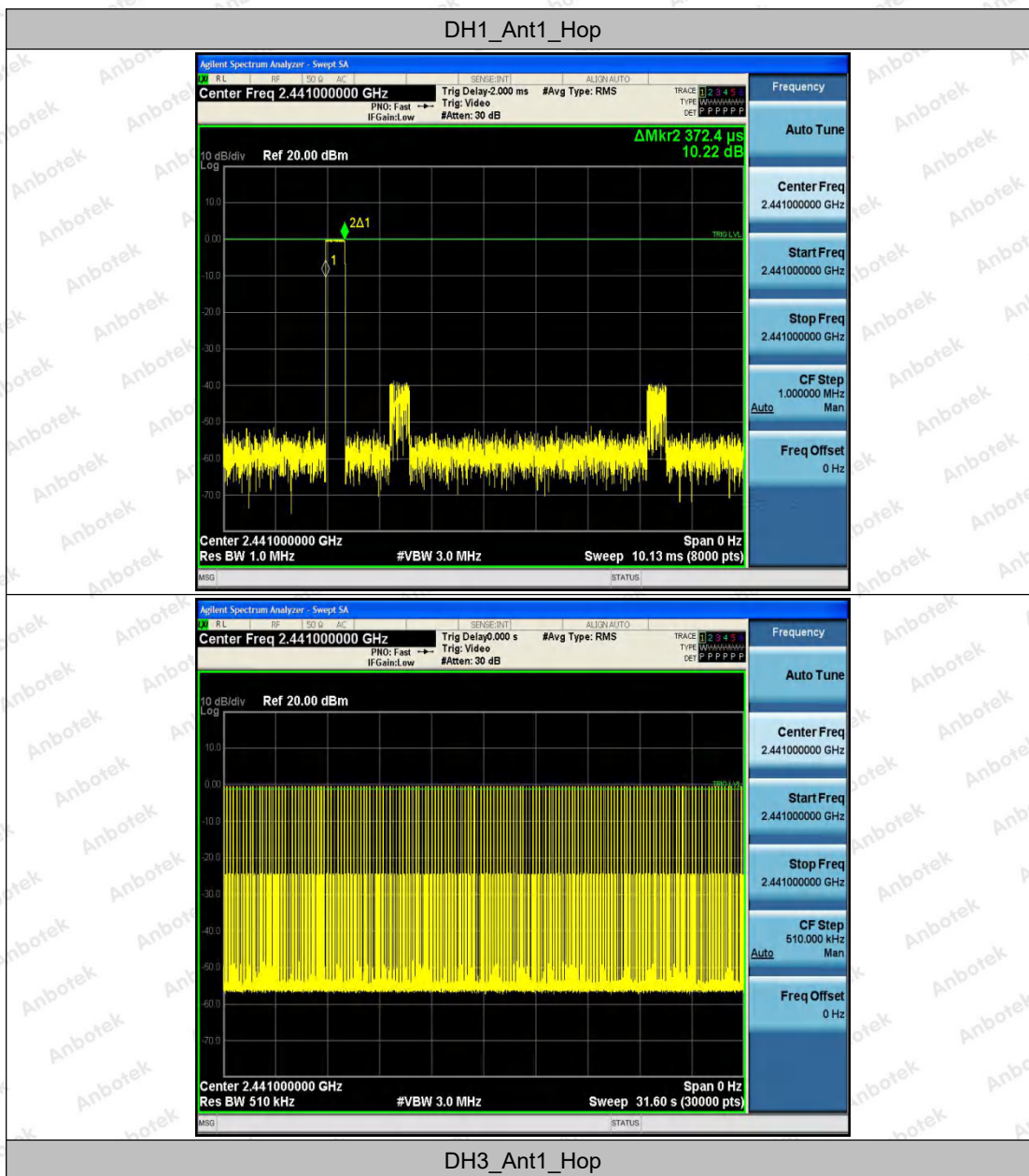
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Appendix E: Time of occupancy

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	158	0.257	≤0.4	PASS
DH5	Ant1	Hop	2.87	99	0.285	≤0.4	PASS
2DH1	Ant1	Hop	0.38	315	0.12	≤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	314	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	156	0.255	≤0.4	PASS
3DH5	Ant1	Hop	2.88	112	0.323	≤0.4	PASS

Test Graphs



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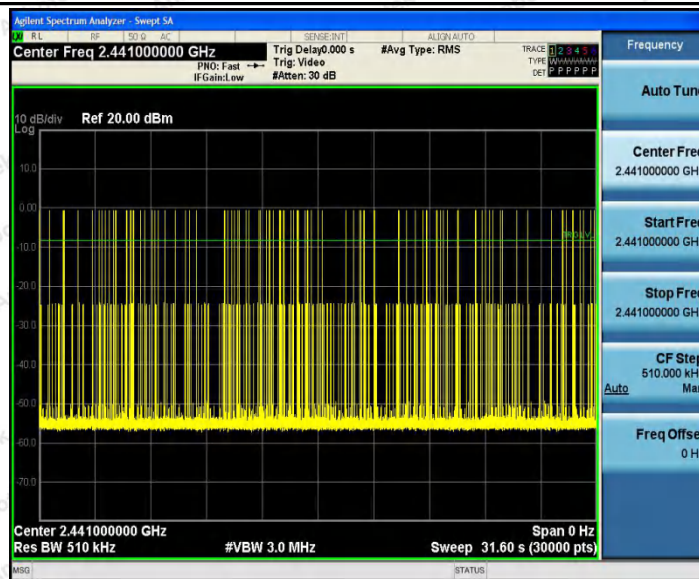
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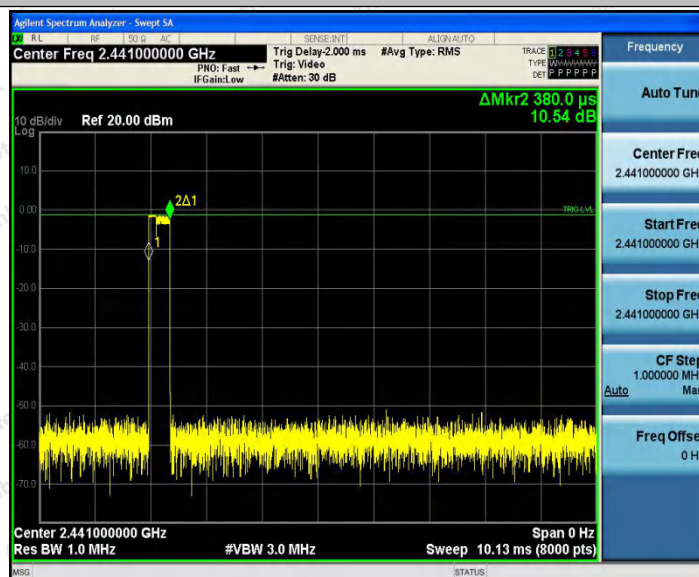
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DH5_Ant1_Hop



2DH1_Ant1_Hop



2DH3_Ant1_Hop

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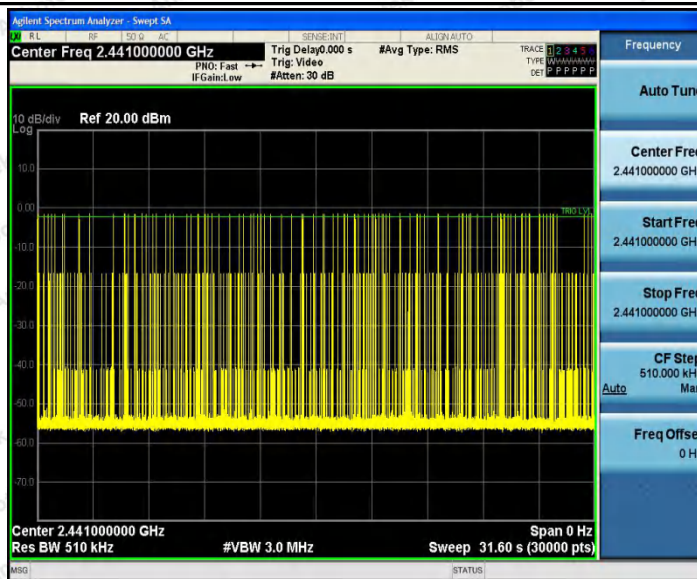


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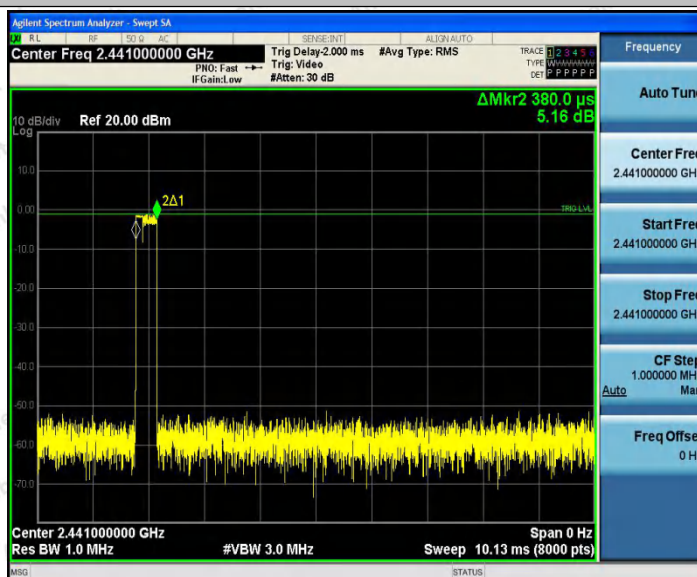
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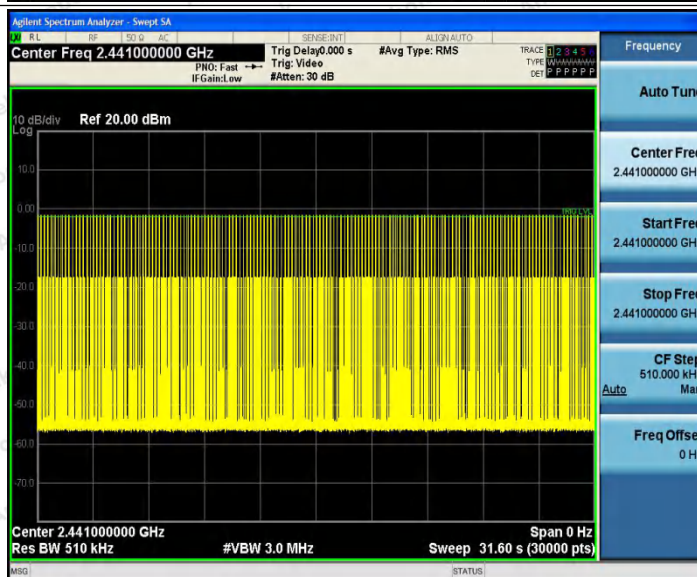
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3DH1_Ant1_Hop



3DH3_Ant1_Hop

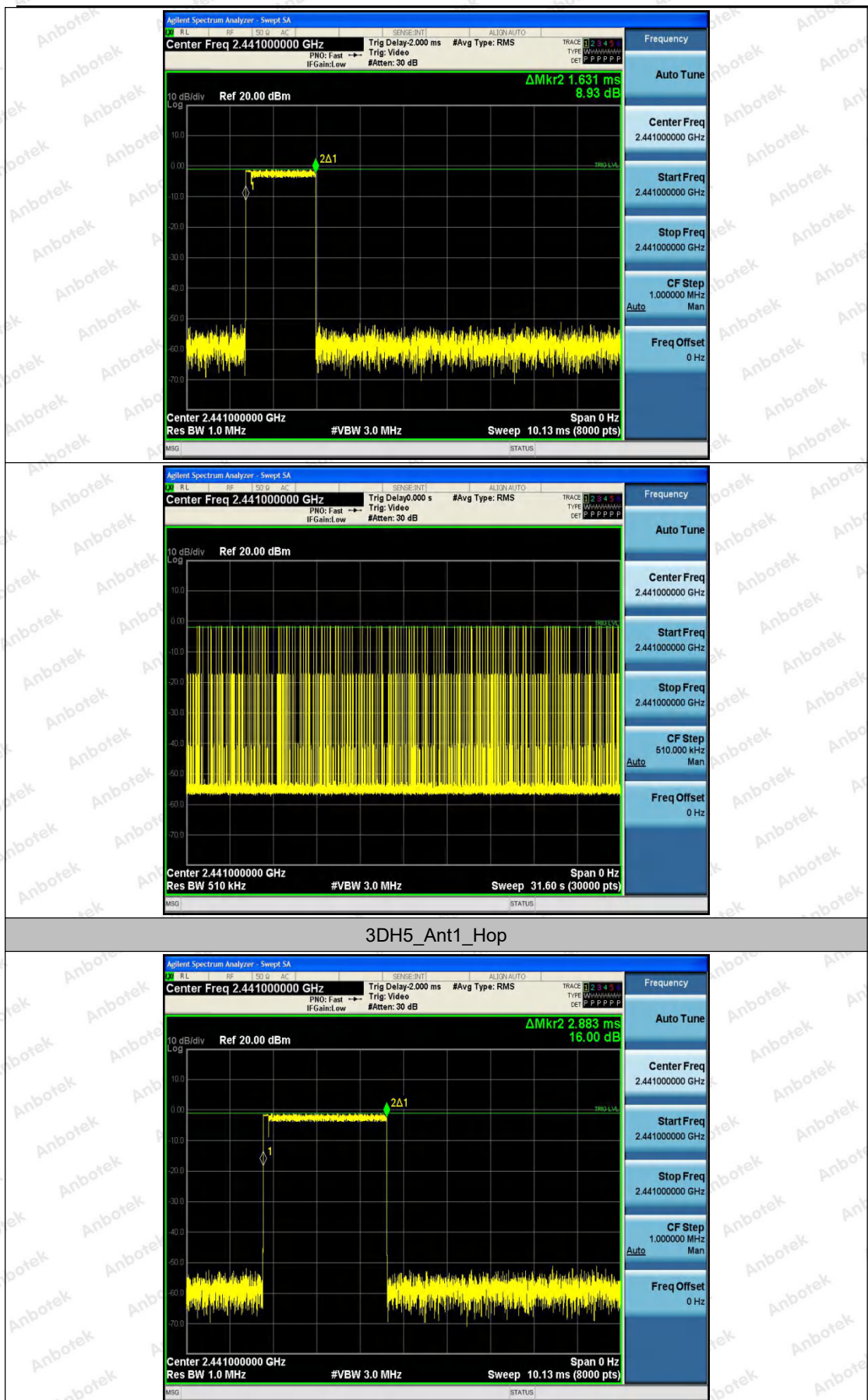


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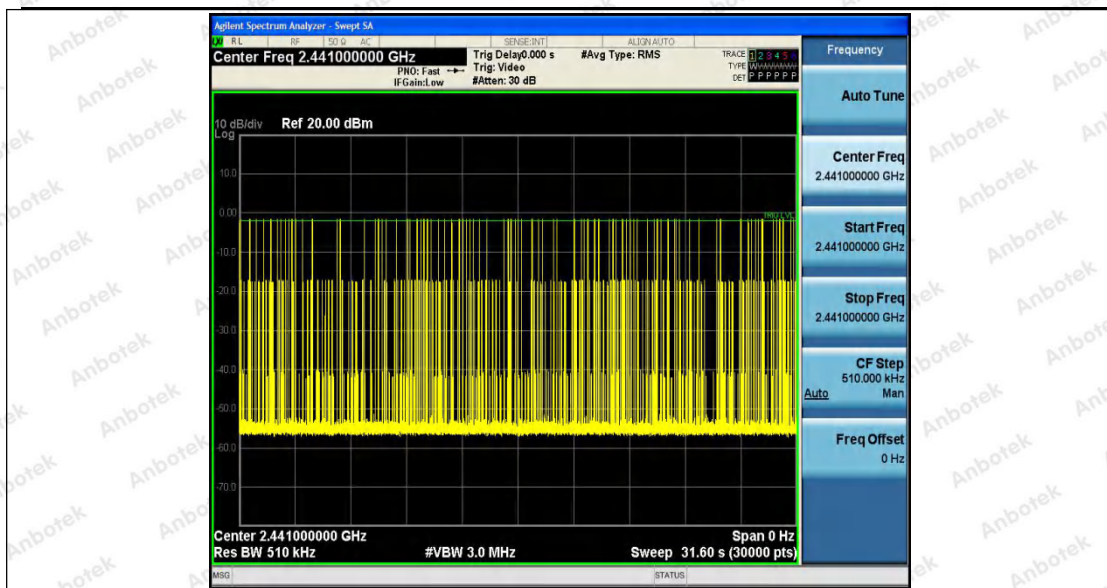


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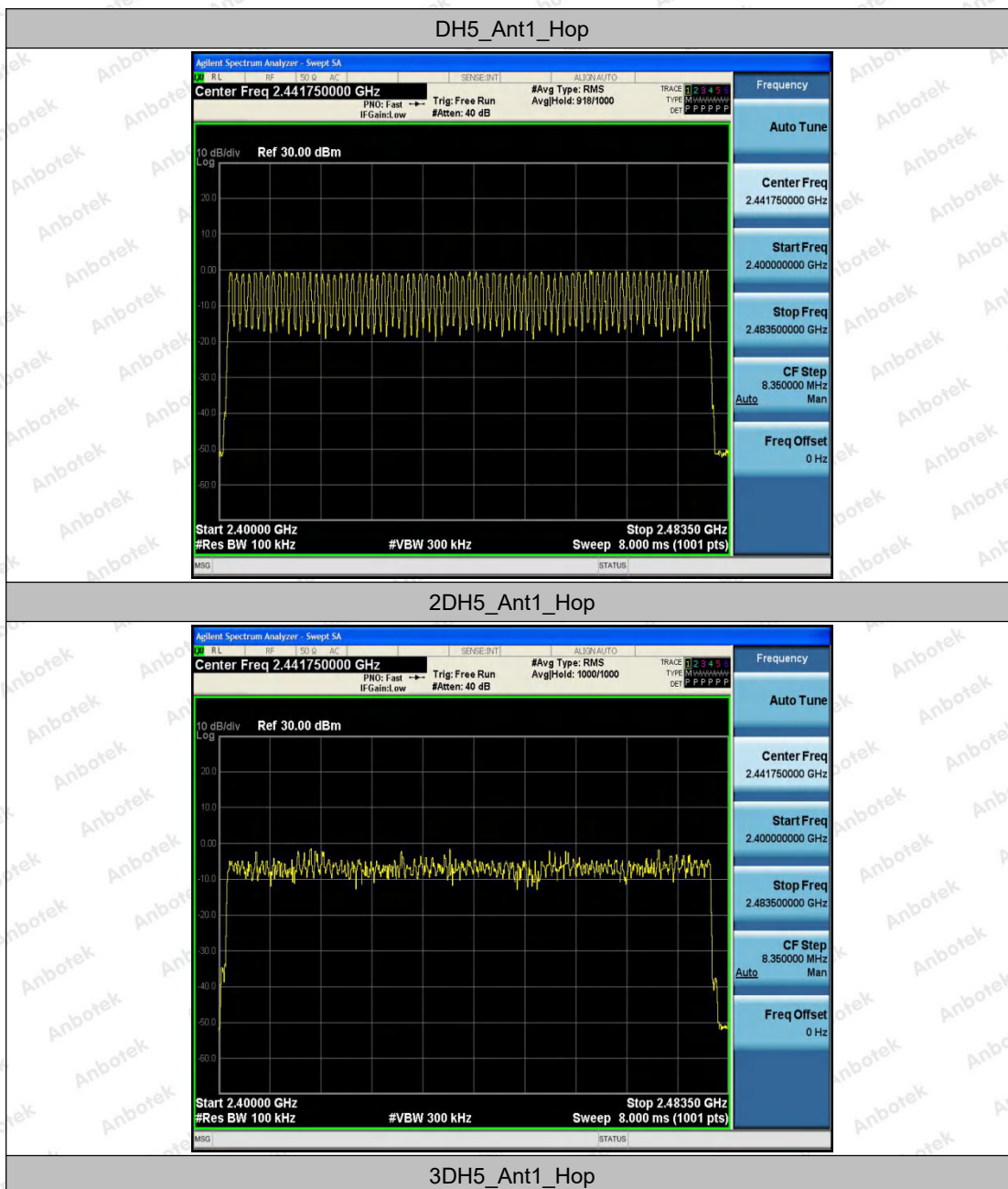
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Appendix F: Number of hopping channels

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

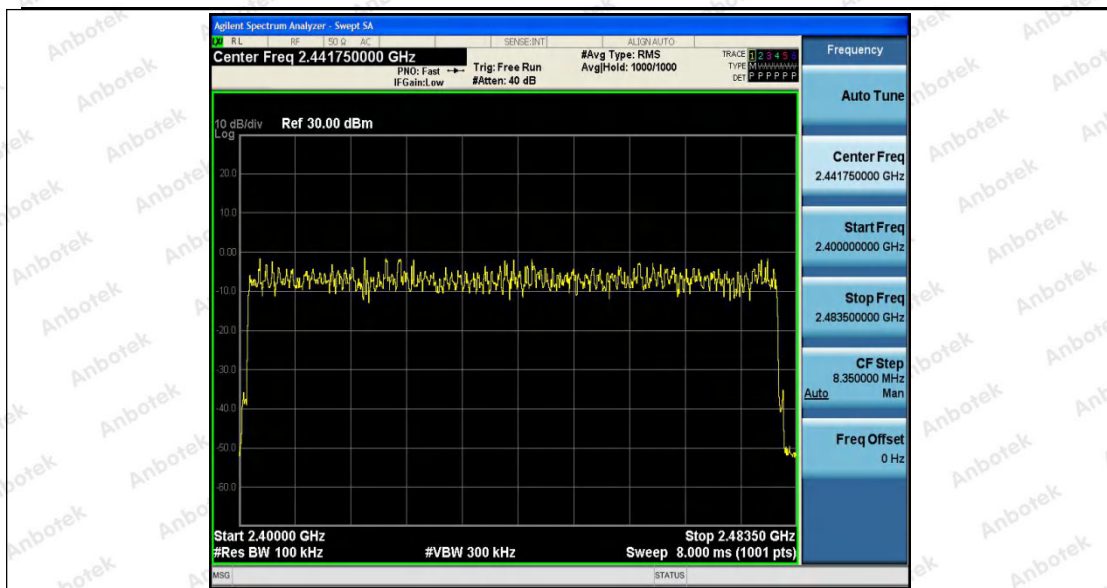


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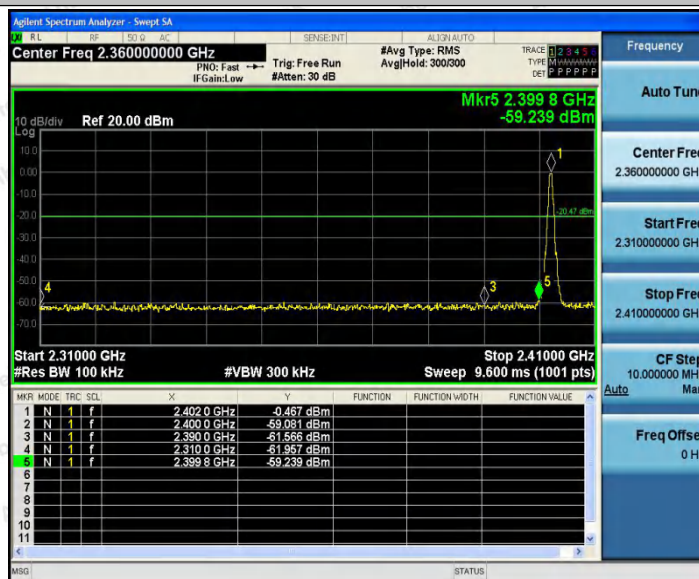
Appendix G: Band edge measurements

Test Result

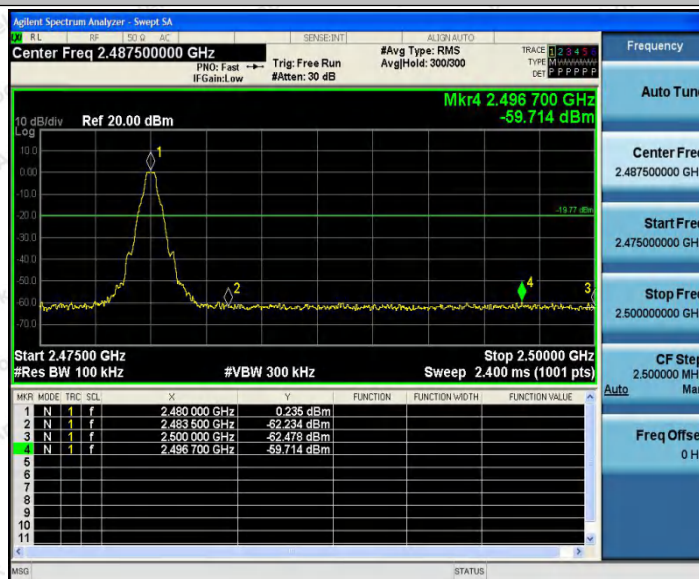
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.47	-59.24	≤ -20.47	PASS
		High	2480	0.24	-59.71	≤ -19.77	PASS
		Low	Hop	-0.77	-59.89	≤ -20.77	PASS
		High	Hop	-0.39	-60.4	≤ -20.39	PASS
2DH5	Ant1	Low	2402	-2.45	-57.27	≤ -22.45	PASS
		High	2480	-1.52	-59.39	≤ -21.52	PASS
		Low	Hop	-4.22	-59.52	≤ -24.22	PASS
		High	Hop	-2.82	-61.36	≤ -22.82	PASS
3DH5	Ant1	Low	2402	-1.31	-57.18	≤ -21.31	PASS
		High	2480	-0.91	-58.52	≤ -20.91	PASS
		Low	Hop	-2.16	-59.44	≤ -22.16	PASS
		High	Hop	-4.30	-61.34	≤ -24.3	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



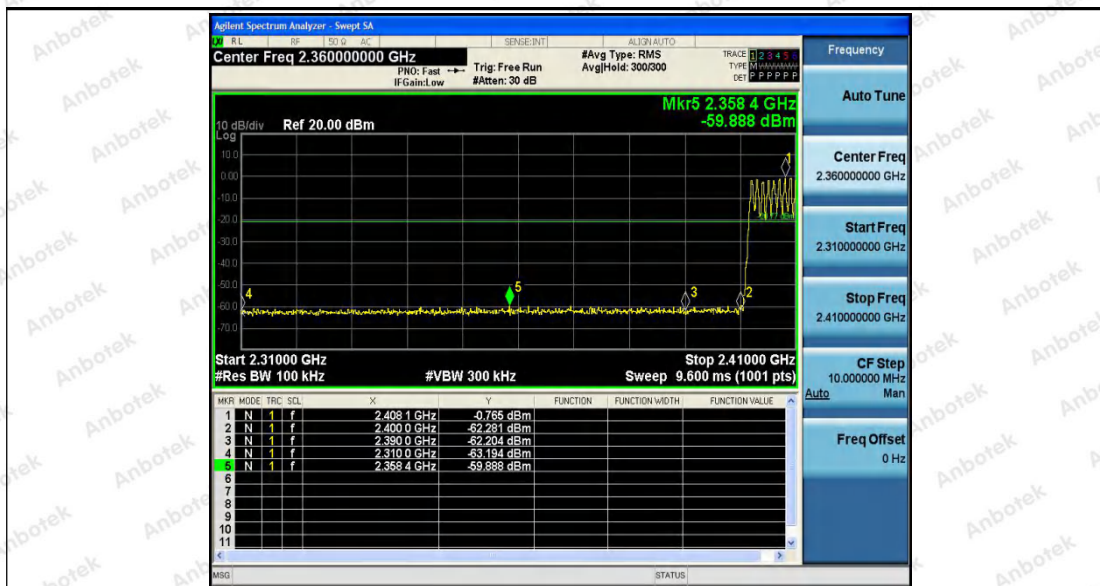
DH5_Ant1_Low_Hop

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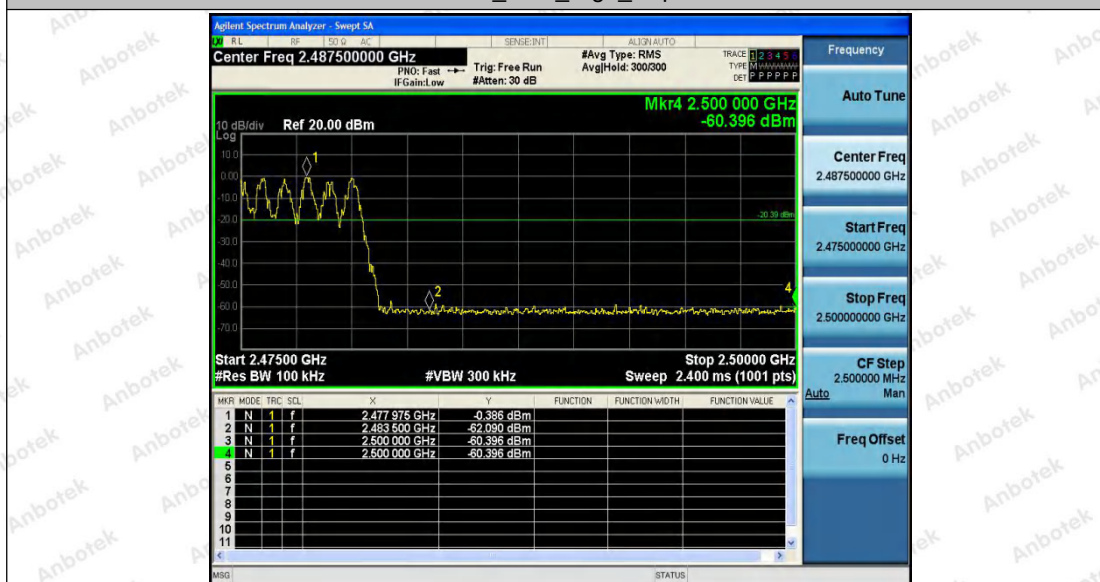
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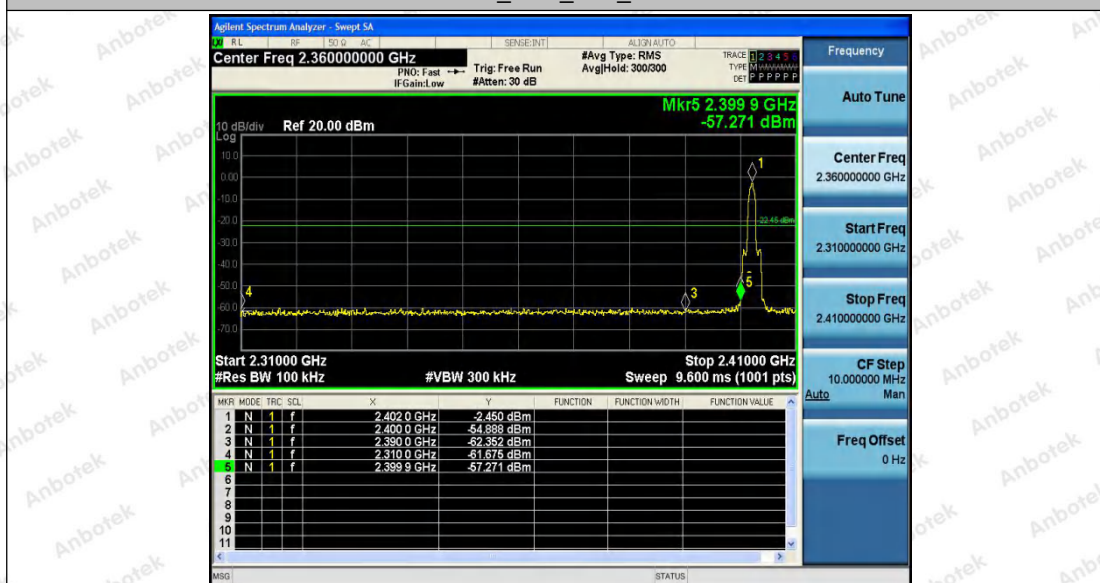
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



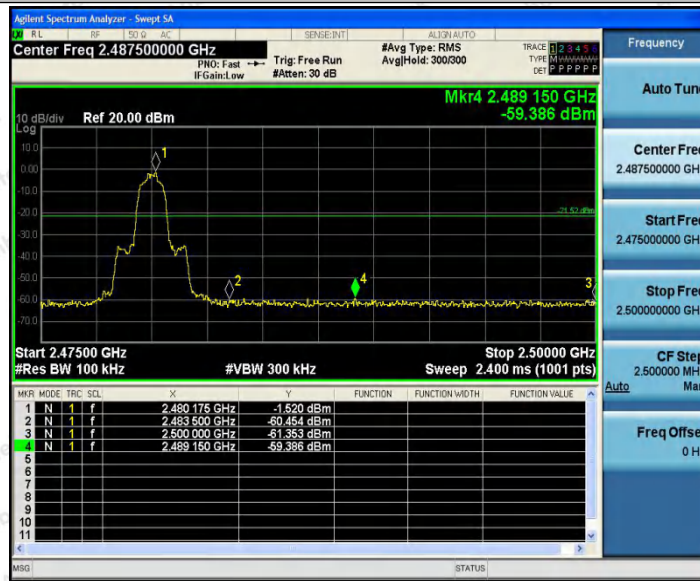
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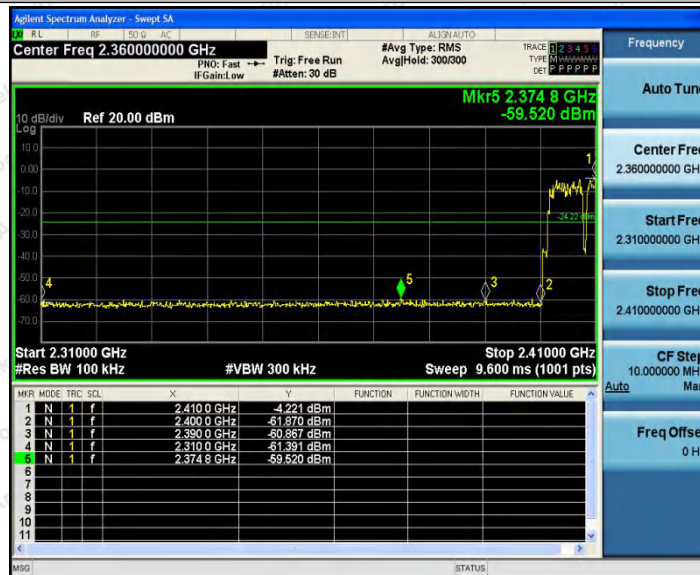
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



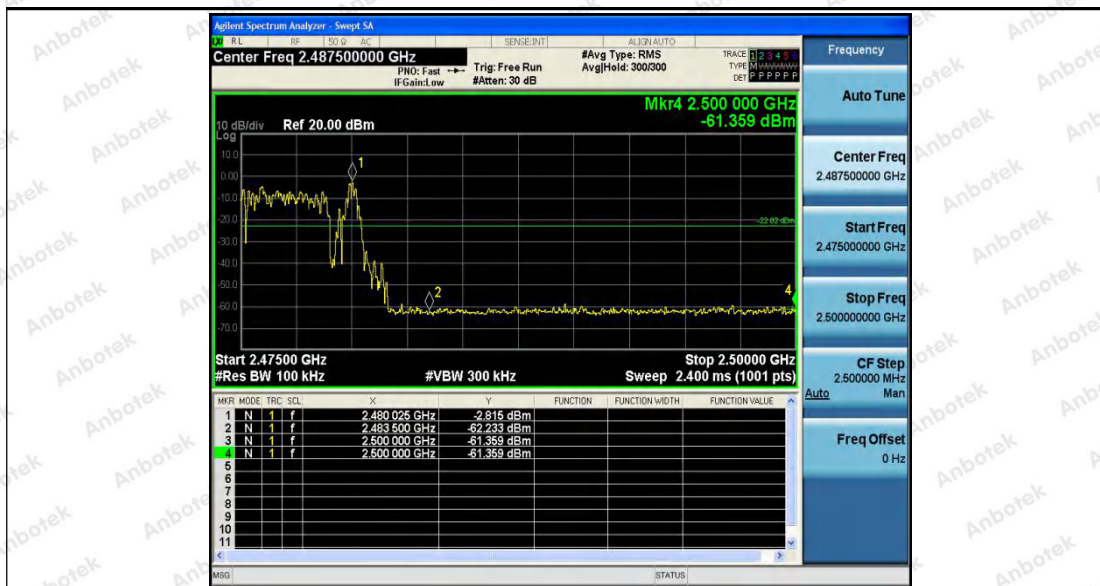
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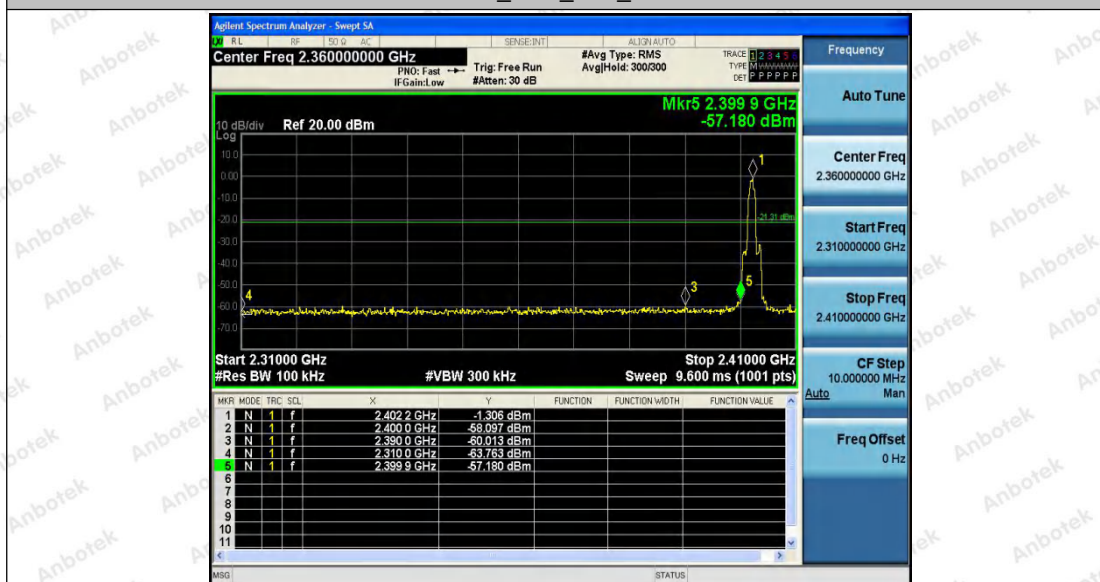
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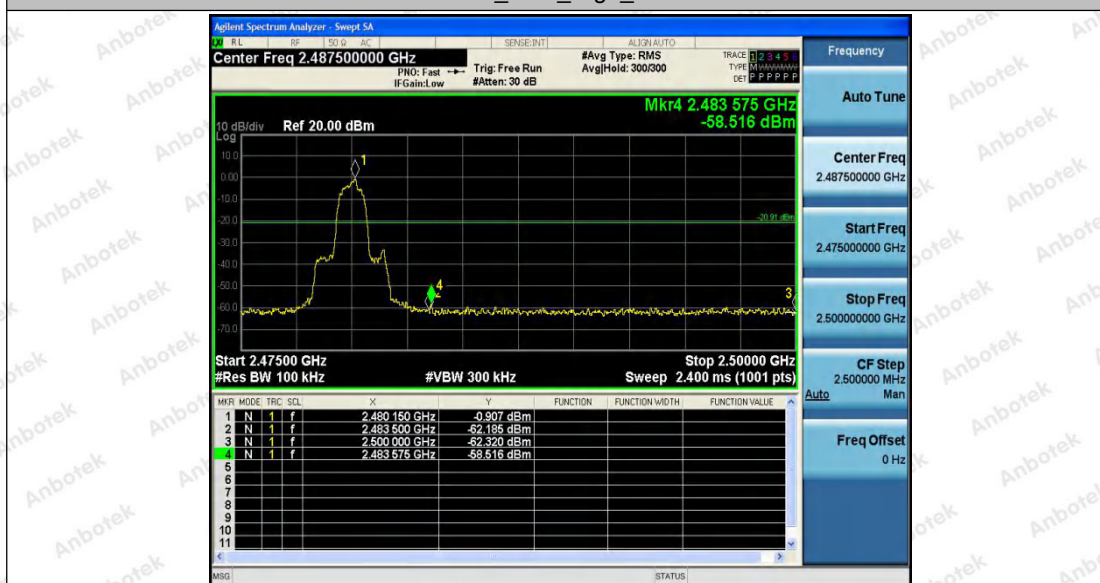
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



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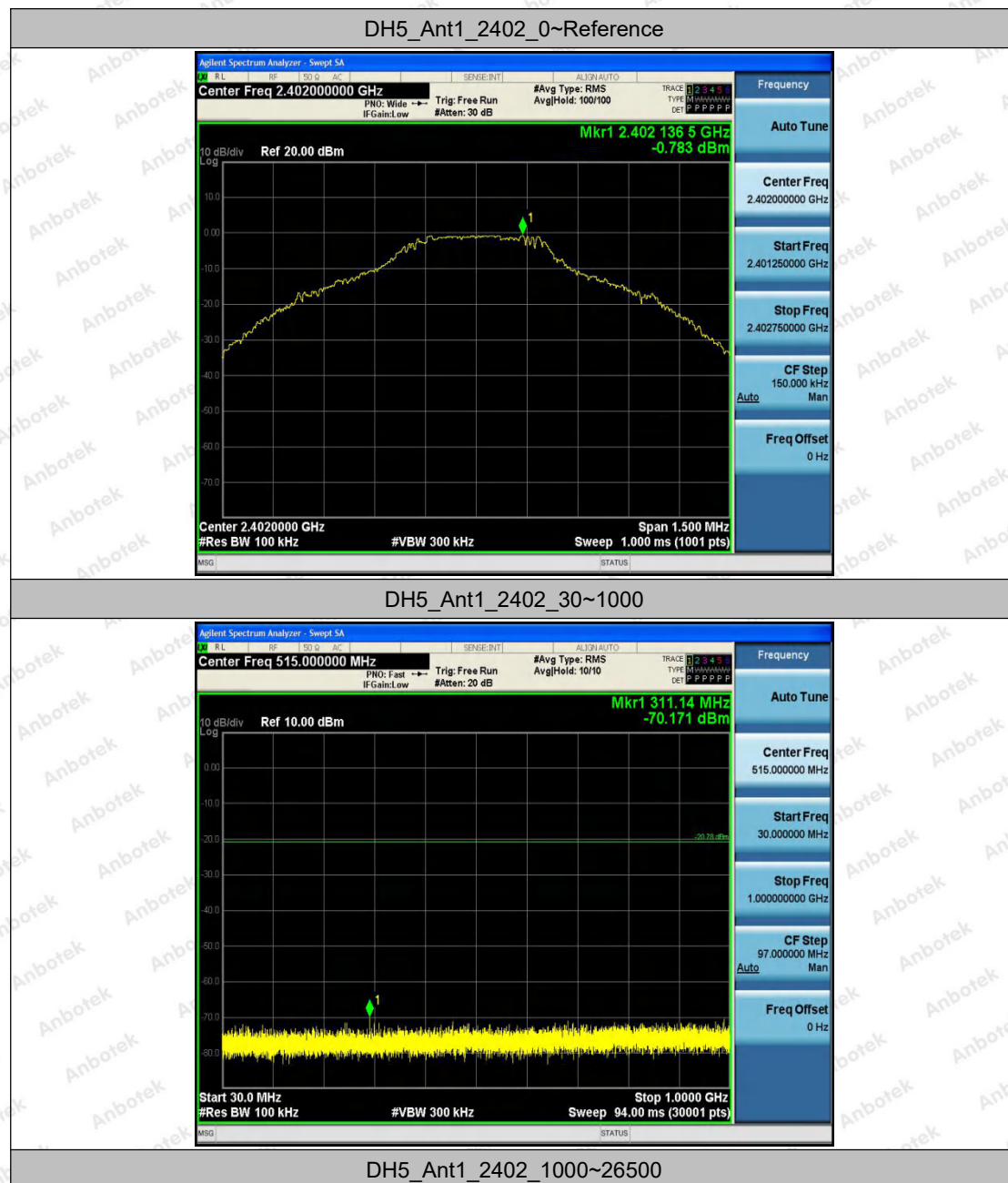
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Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.78	-0.78	---	PASS
			30~1000	-0.78	-70.17	≤-20.78	PASS
			1000~26500	-0.78	-55.08	≤-20.78	PASS
		2441	Reference	-0.95	-0.95	---	PASS
			30~1000	-0.95	-70.72	≤-20.95	PASS
			1000~26500	-0.95	-54.86	≤-20.95	PASS
		2480	Reference	-0.17	-0.17	---	PASS
			30~1000	-0.17	-69.48	≤-20.17	PASS
			1000~26500	-0.17	-55.25	≤-20.17	PASS
2DH5	Ant1	2402	Reference	-1.58	-1.58	---	PASS
			30~1000	-1.58	-70.46	≤-21.58	PASS
			1000~26500	-1.58	-54.56	≤-21.58	PASS
		2441	Reference	-2.23	-2.23	---	PASS
			30~1000	-2.23	-70.35	≤-22.23	PASS
			1000~26500	-2.23	-54.83	≤-22.23	PASS
		2480	Reference	-1.72	-1.72	---	PASS
			30~1000	-1.72	-69.92	≤-21.72	PASS
			1000~26500	-1.72	-55.58	≤-21.72	PASS
3DH5	Ant1	2402	Reference	-1.79	-1.79	---	PASS
			30~1000	-1.79	-70.28	≤-21.79	PASS
			1000~26500	-1.79	-54.76	≤-21.79	PASS
		2441	Reference	-2.54	-2.54	---	PASS
			30~1000	-2.54	-70.22	≤-22.54	PASS
			1000~26500	-2.54	-54.92	≤-22.54	PASS
		2480	Reference	-1.31	-1.31	---	PASS
			30~1000	-1.31	-70.19	≤-21.31	PASS
			1000~26500	-1.31	-55.53	≤-21.31	PASS

Test Graphs

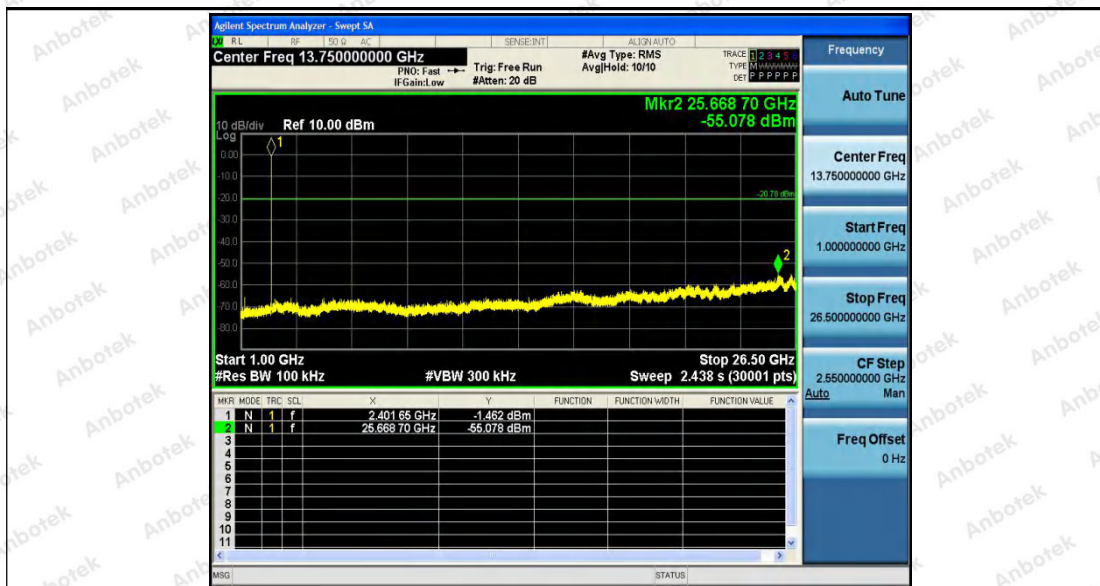


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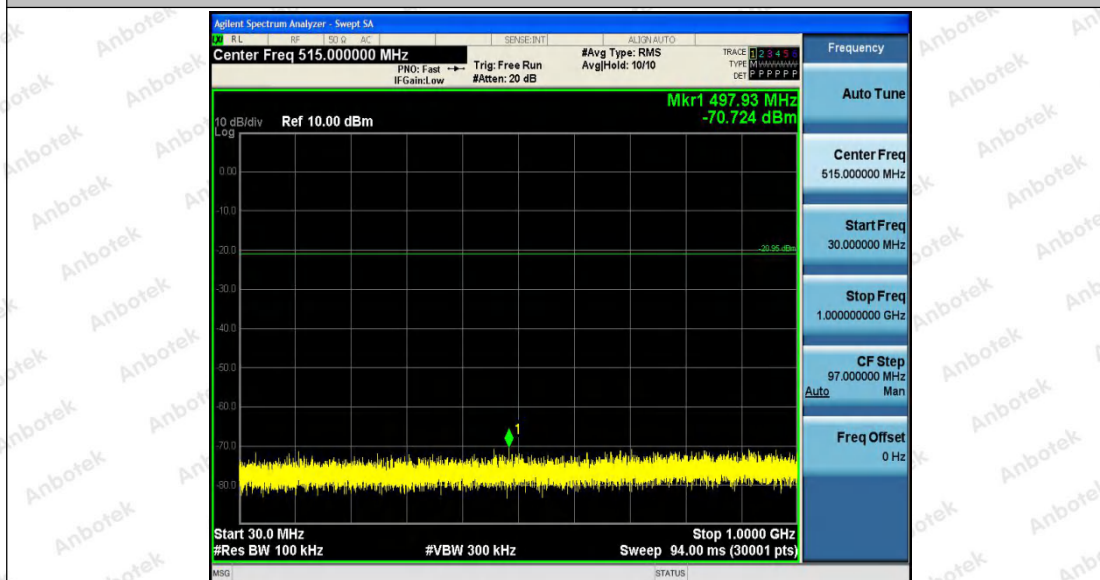
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



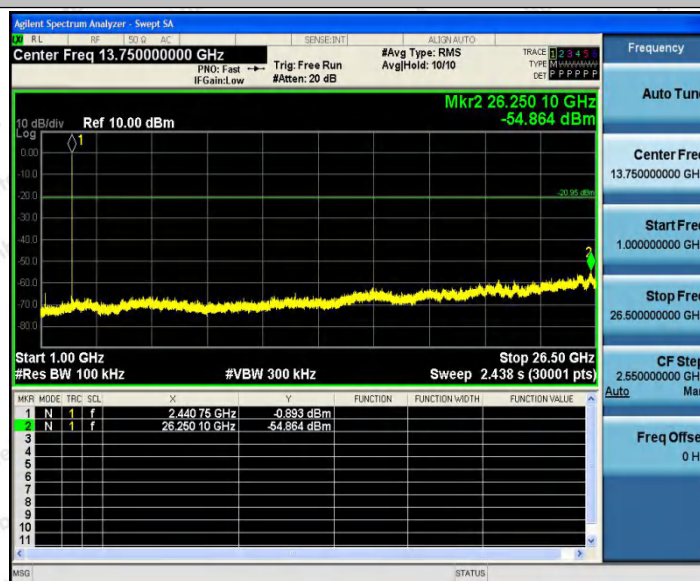
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



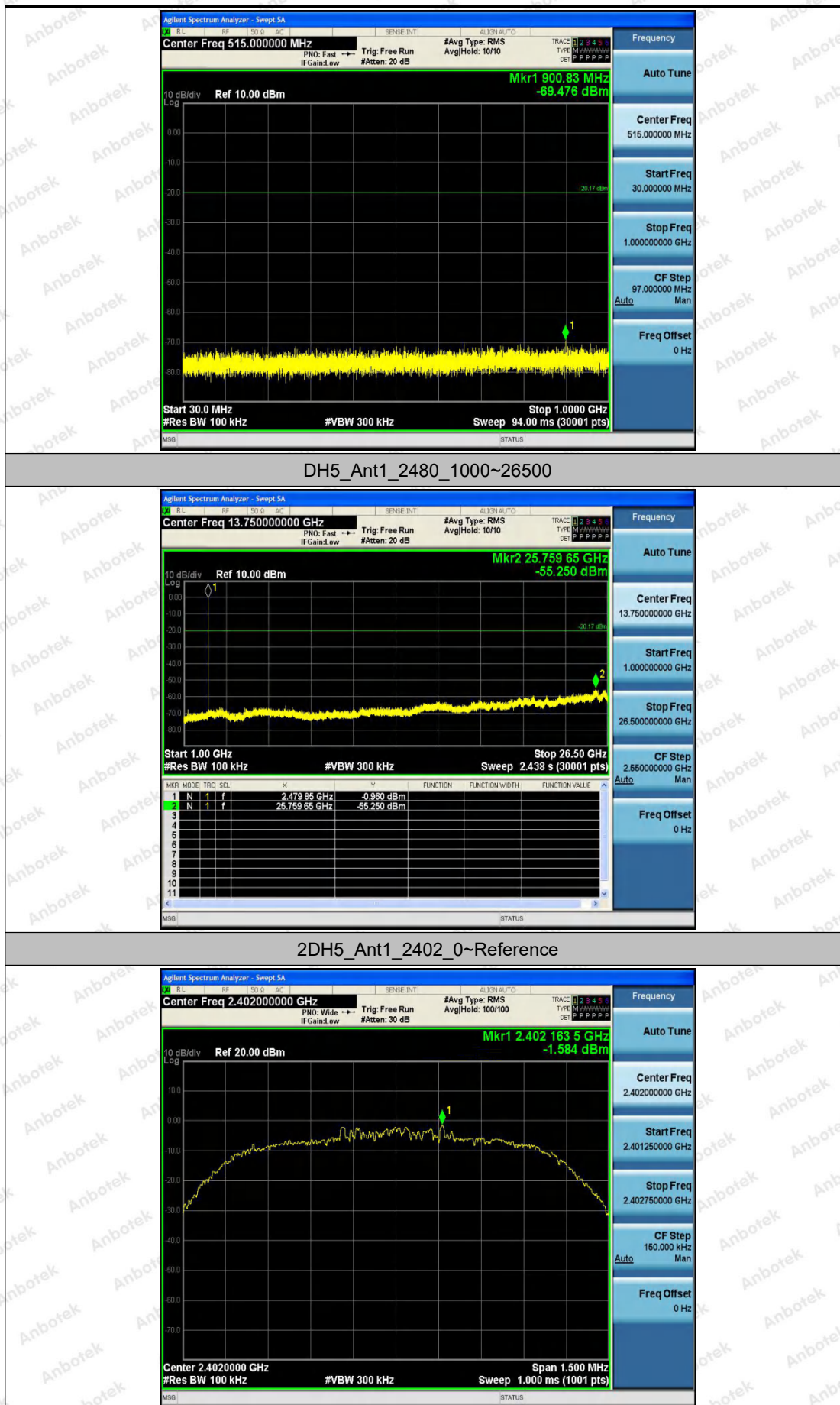
DH5_Ant1_2480_30~1000

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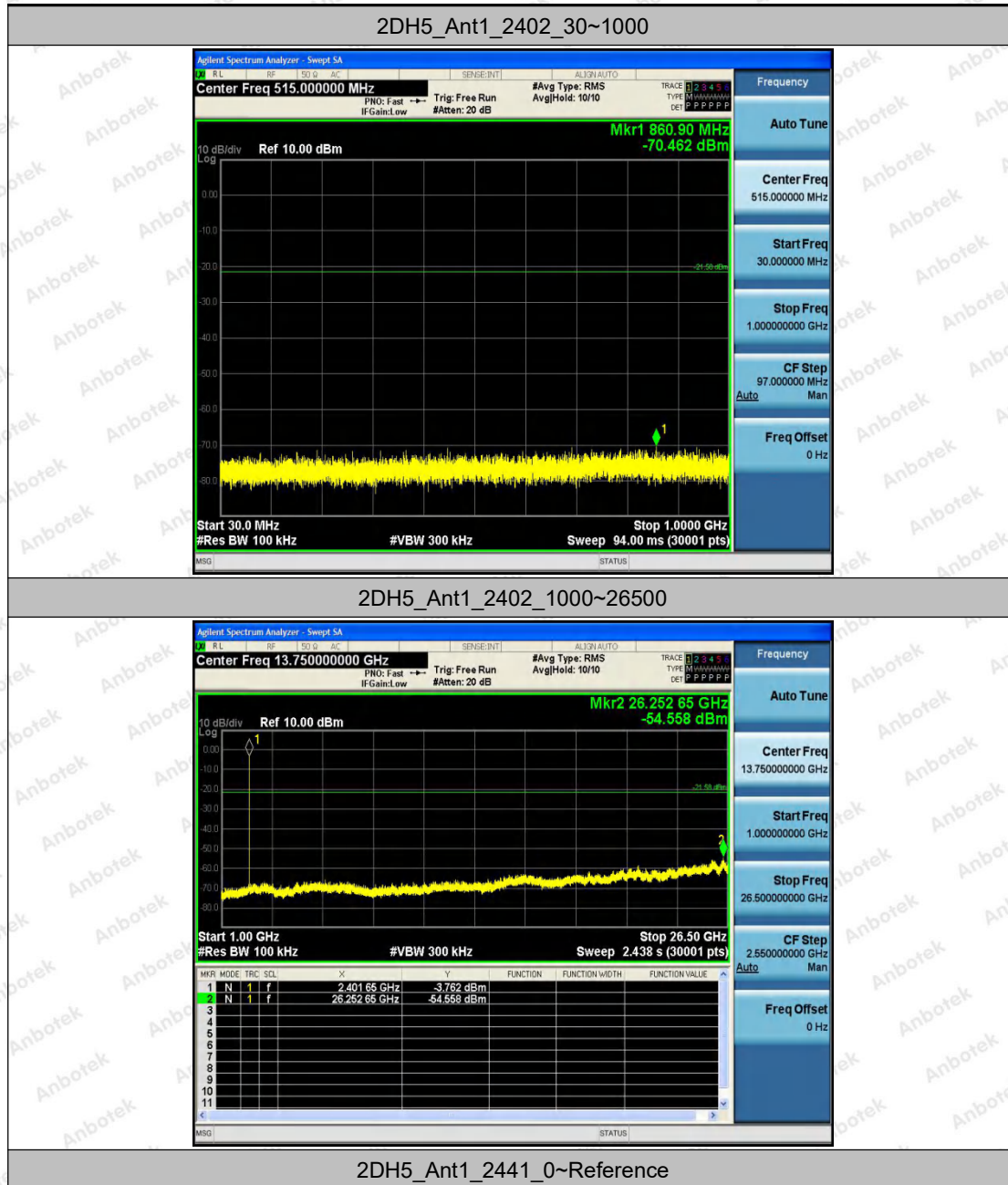


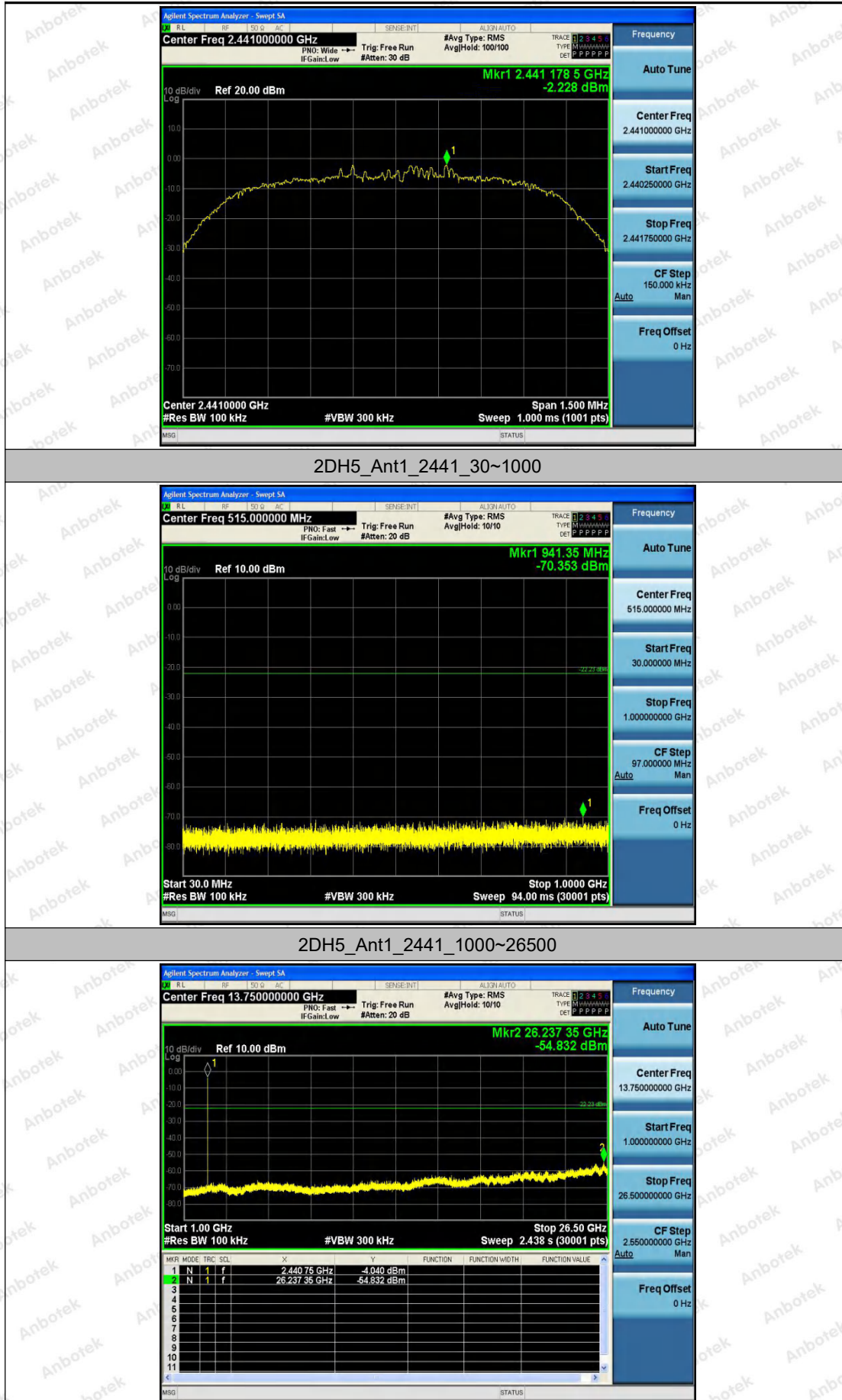
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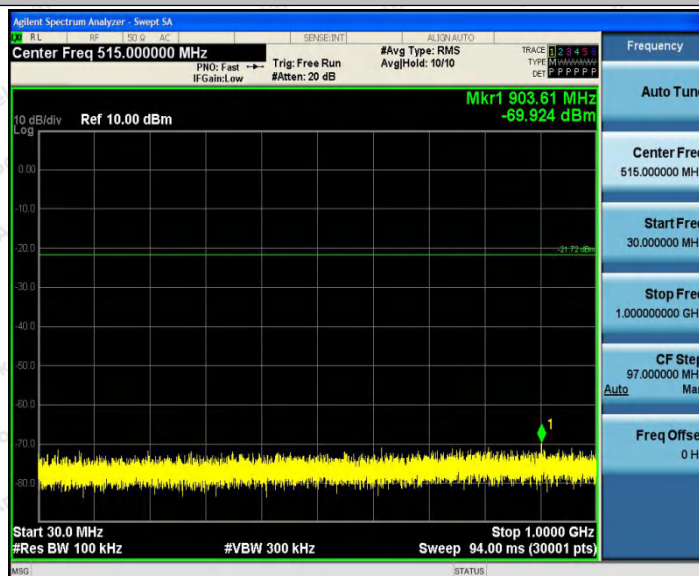
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



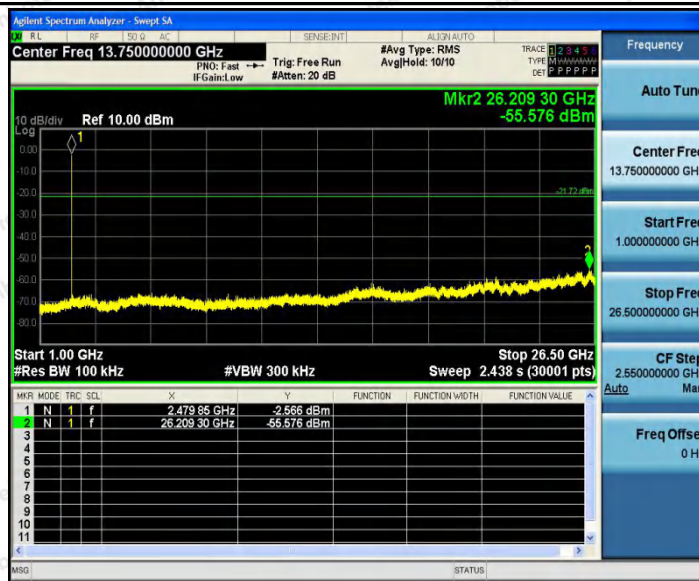
2DH5_Ant1_2480_1000~26500

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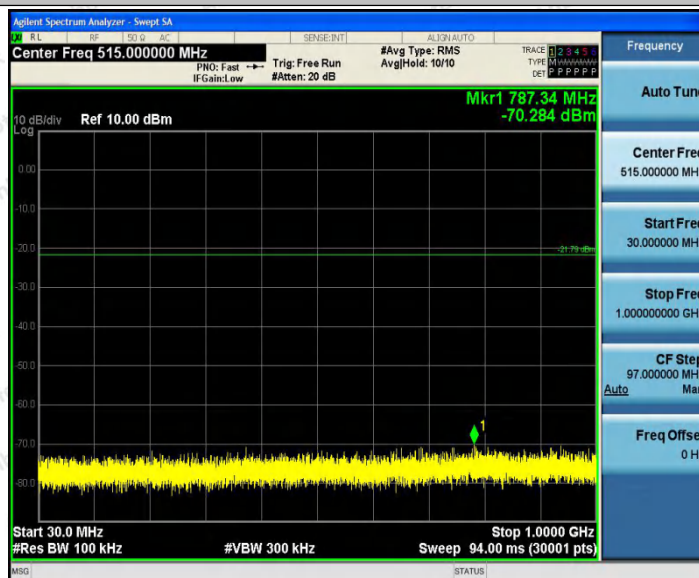
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



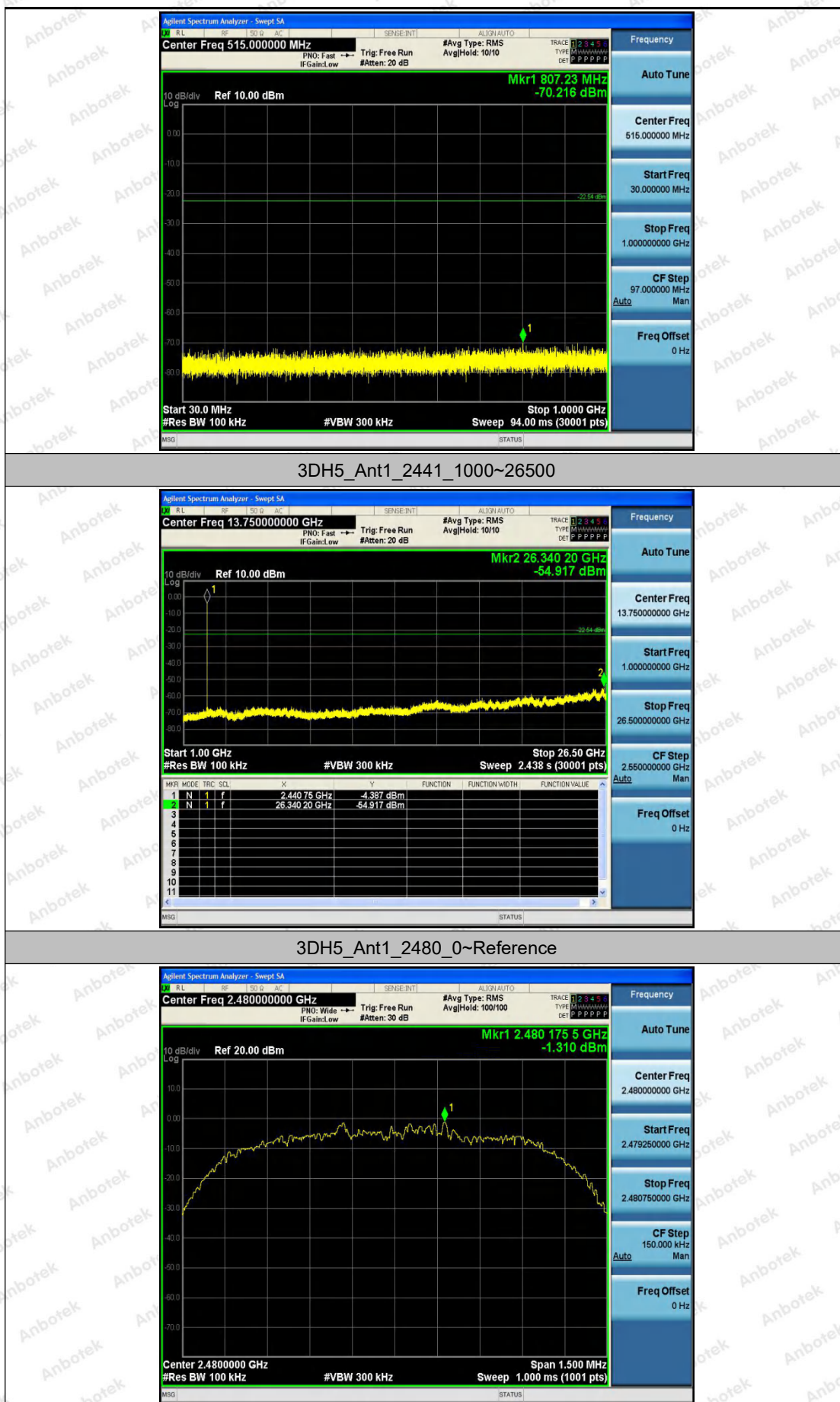
3DH5_Ant1_2441_30~1000

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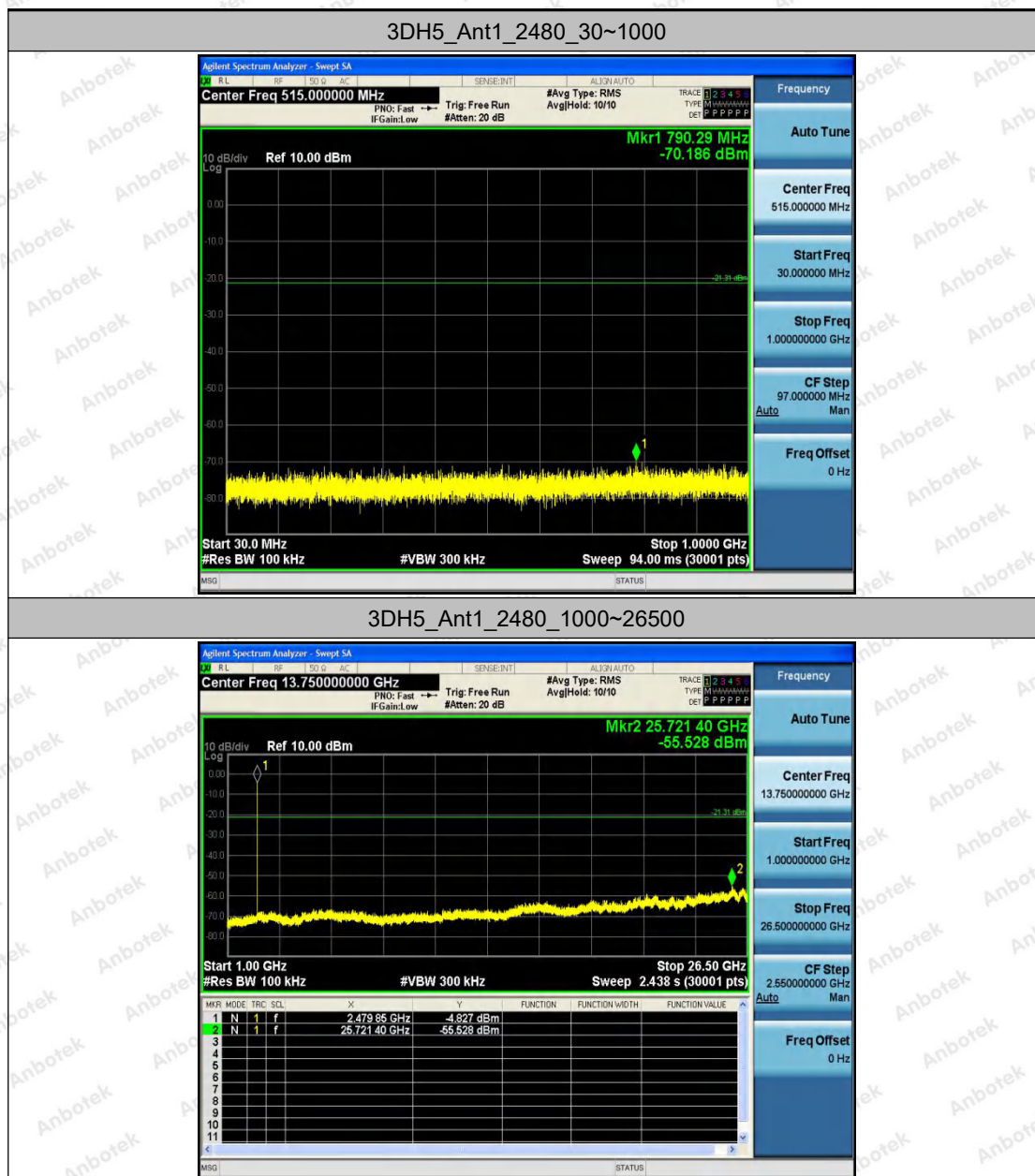


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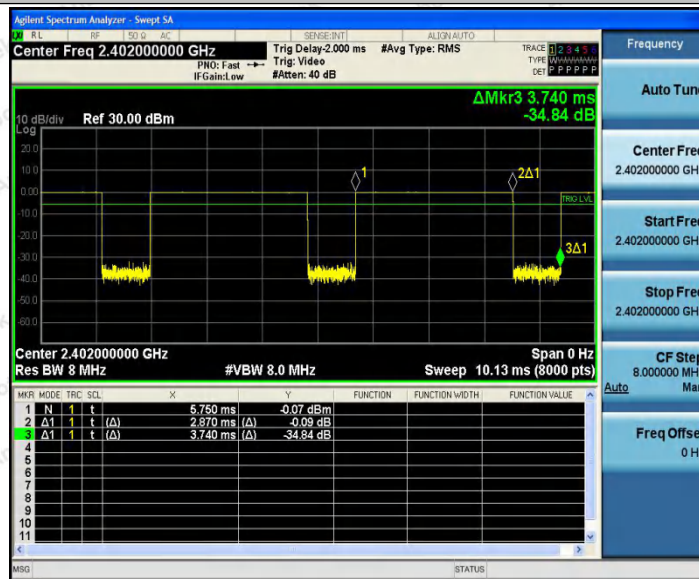
Appendix I: Duty Cycle

Test Result

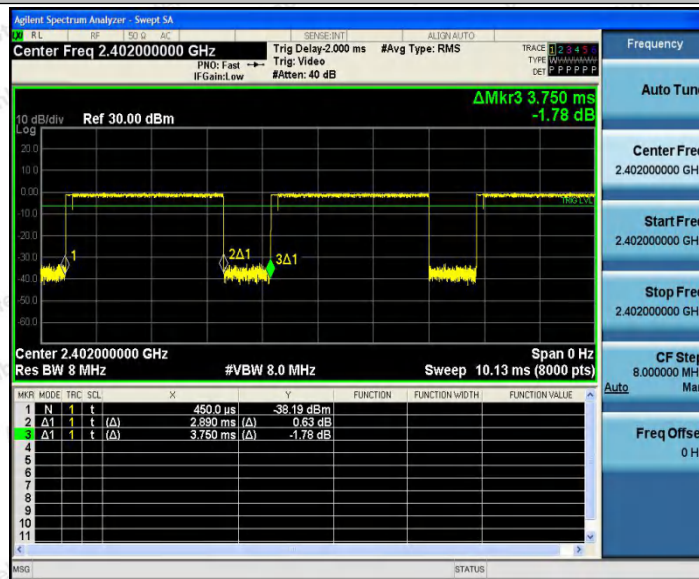
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.74	0.767 4	76.74	1.15	---	PASS
2DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS

Test Graphs

DH5_Ant1_2402



2DH5_Ant1_2402



3DH5_Ant1_2402

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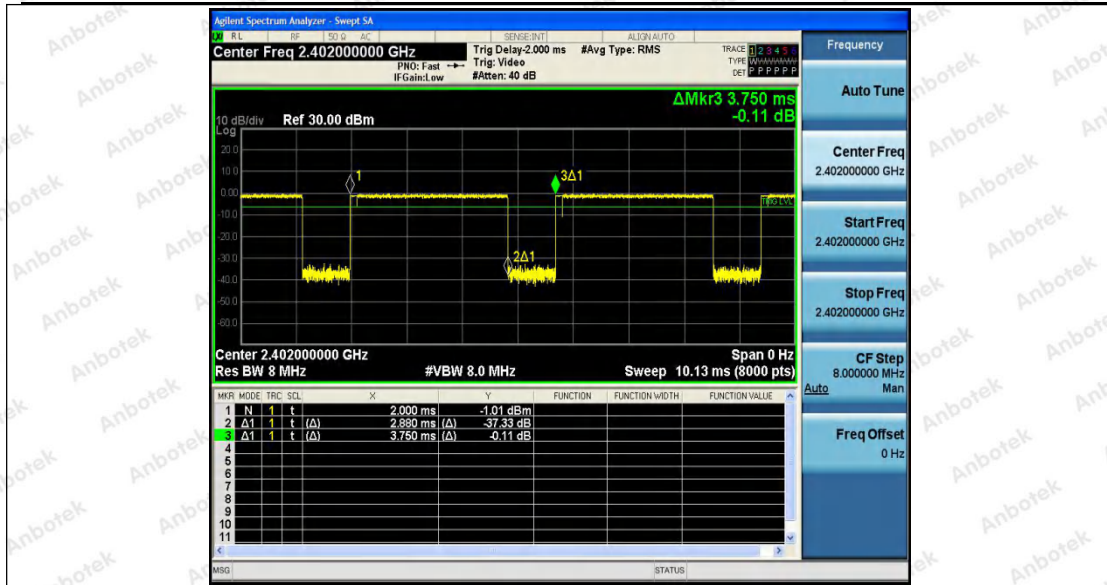
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