

Appendix Test Data

Report No.:	18220WC20098601	Test Sample No.:	1-2-2
Start Test Date:	2022.5.7	Finish Test Date:	2022.5.13
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	56.8 %
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	0.927	2401.541	2402.468	---	PASS
		2441	0.930	2440.535	2441.465	---	PASS
		2480	0.930	2479.529	2480.459	---	PASS
2DH5	Ant1	2402	1.362	2401.319	2402.681	---	PASS
		2441	1.266	2440.355	2441.621	---	PASS
		2480	1.311	2479.334	2480.645	---	PASS
3DH5	Ant1	2402	1.302	2401.340	2402.642	---	PASS
		2441	1.281	2440.343	2441.624	---	PASS
		2480	1.281	2479.352	2480.633	---	PASS

Test Graphs


DH5_Ant1_2441
DH5_Ant1_2480



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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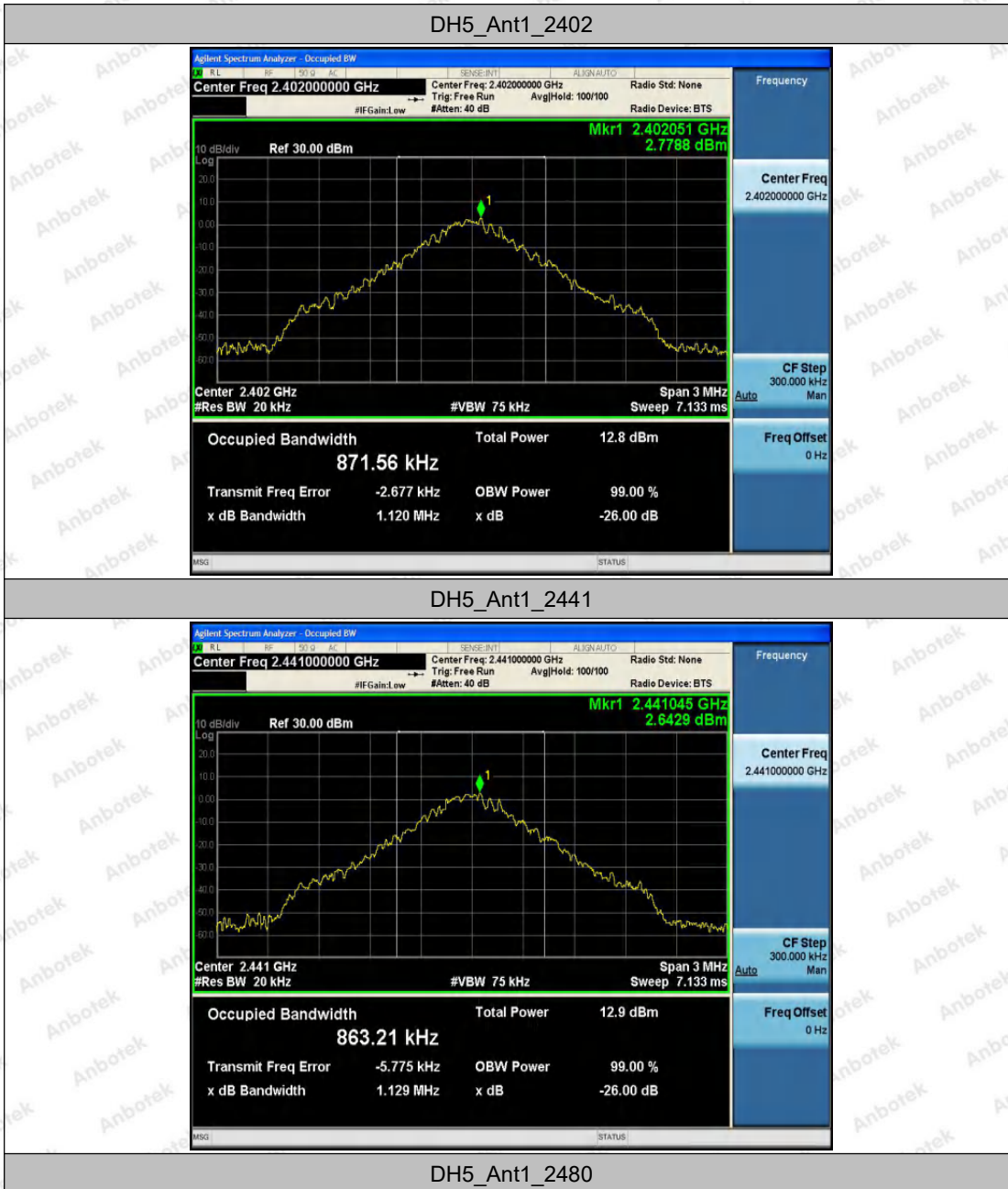
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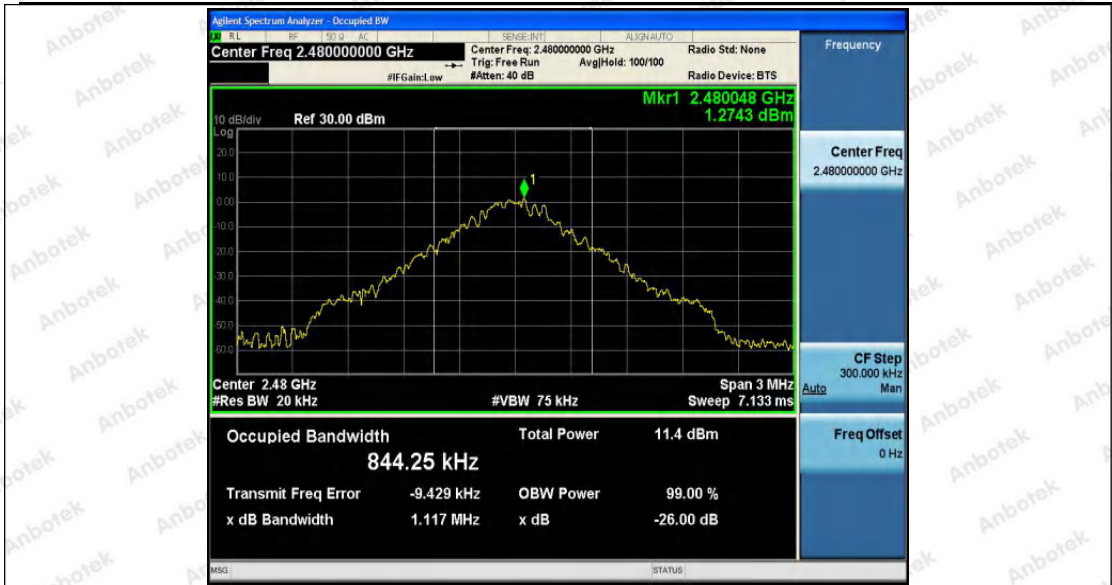
Appendix B: Occupied Channel Bandwidth

Test Result

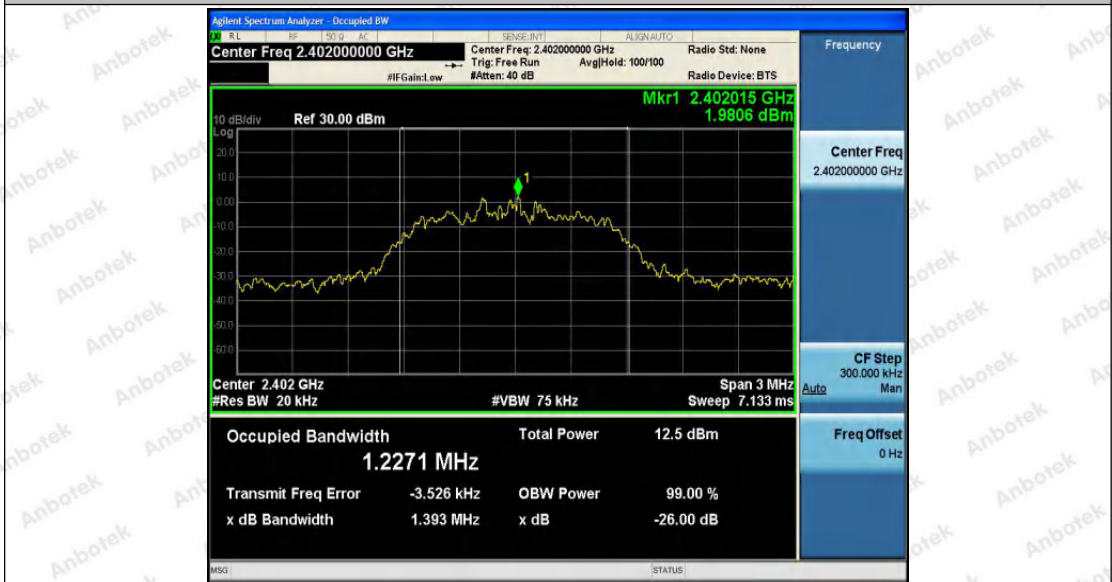
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87156	2401.56 2	2402.433	---	PASS
		2441	0.86321	2440.56 3	2441.426	---	PASS
		2480	0.84425	2479.56 8	2480.413	---	PASS
2DH5	Ant1	2402	1.2271	2401.38 3	2402.610	---	PASS
		2441	1.1932	2440.39 6	2441.590	---	PASS
		2480	1.1830	2479.40 0	2480.583	---	PASS
3DH5	Ant1	2402	1.2326	2401.37 2	2402.605	---	PASS
		2441	1.2018	2440.38 7	2441.589	---	PASS
		2480	1.1899	2479.39 2	2480.582	---	PASS

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



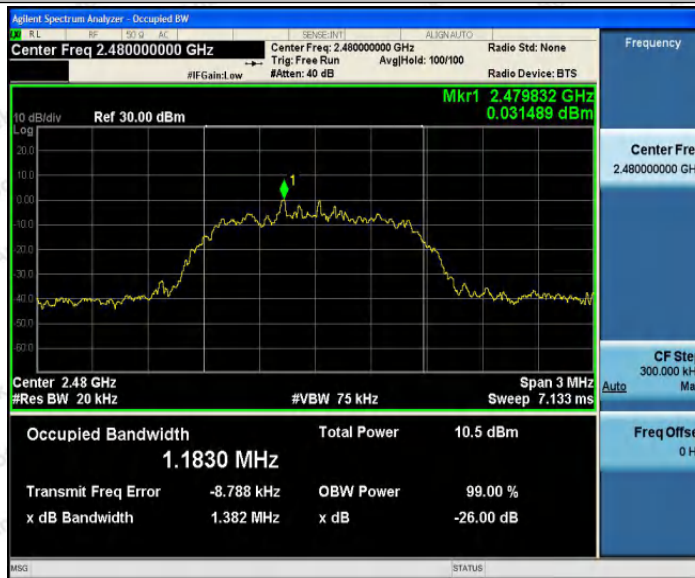
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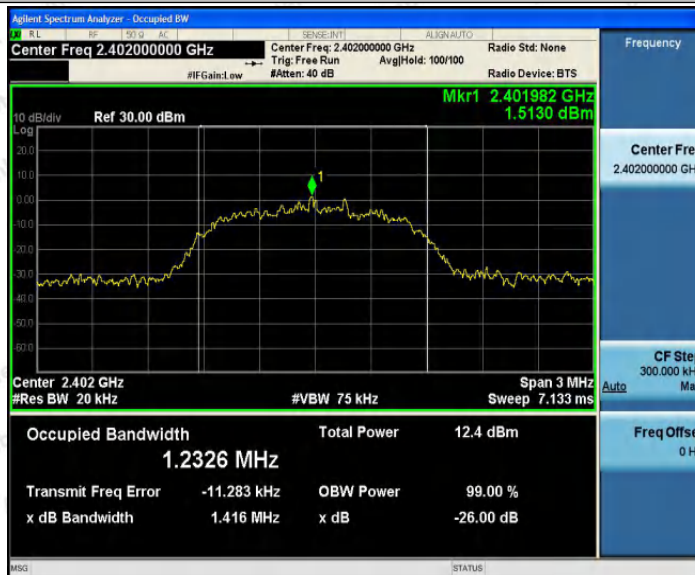
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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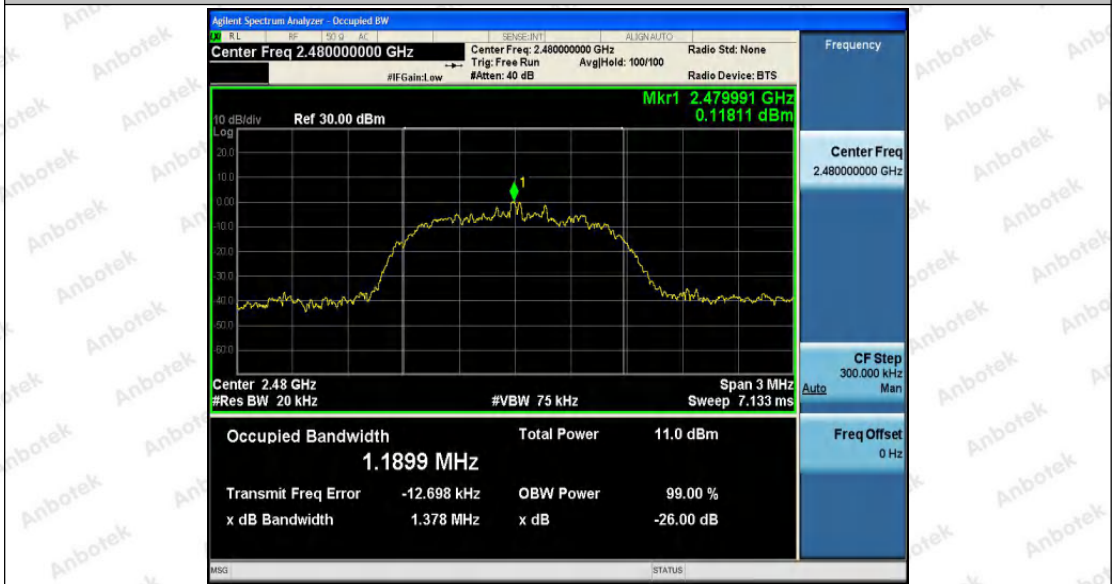
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3DH5_Ant1_2480

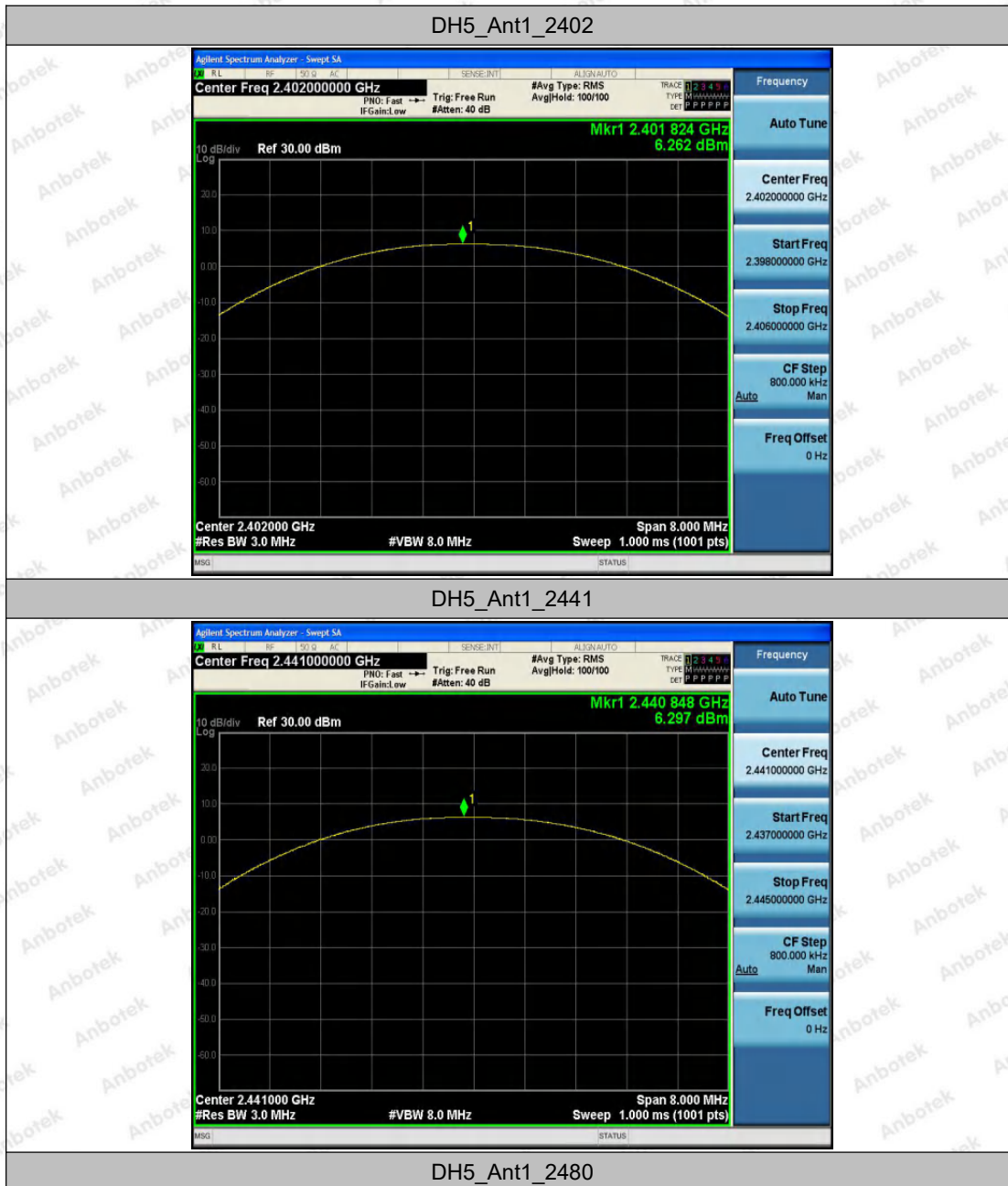


Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	6.26	≤20.97	PASS
		2441	6.3	≤20.97	PASS
		2480	4.79	≤20.97	PASS
2DH5	Ant1	2402	6.59	≤20.97	PASS
		2441	6.75	≤20.97	PASS
		2480	5.23	≤20.97	PASS
3DH5	Ant1	2402	6.91	≤20.97	PASS
		2441	7.16	≤20.97	PASS
		2480	5.67	≤20.97	PASS

Test Graphs



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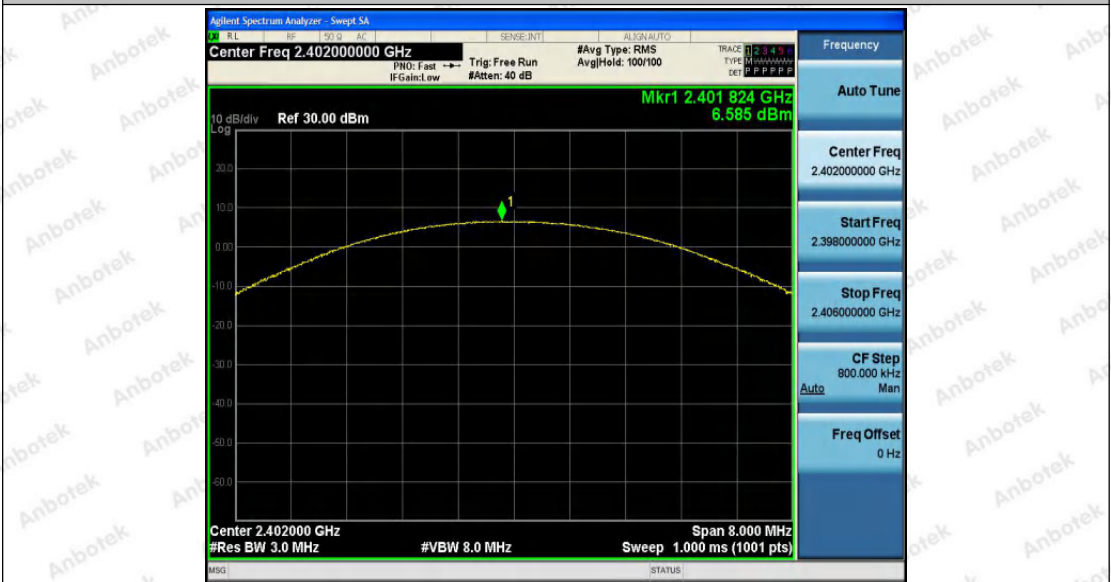
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2DH5_Ant1_2402



2DH5_Ant1_2441



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3DH5_Ant1_2480



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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.876	≥ 0.620	PASS
2DH5	Ant1	Hop	1.166	≥ 0.908	PASS
3DH5	Ant1	Hop	0.93	≥ 0.868	PASS

Test Graphs

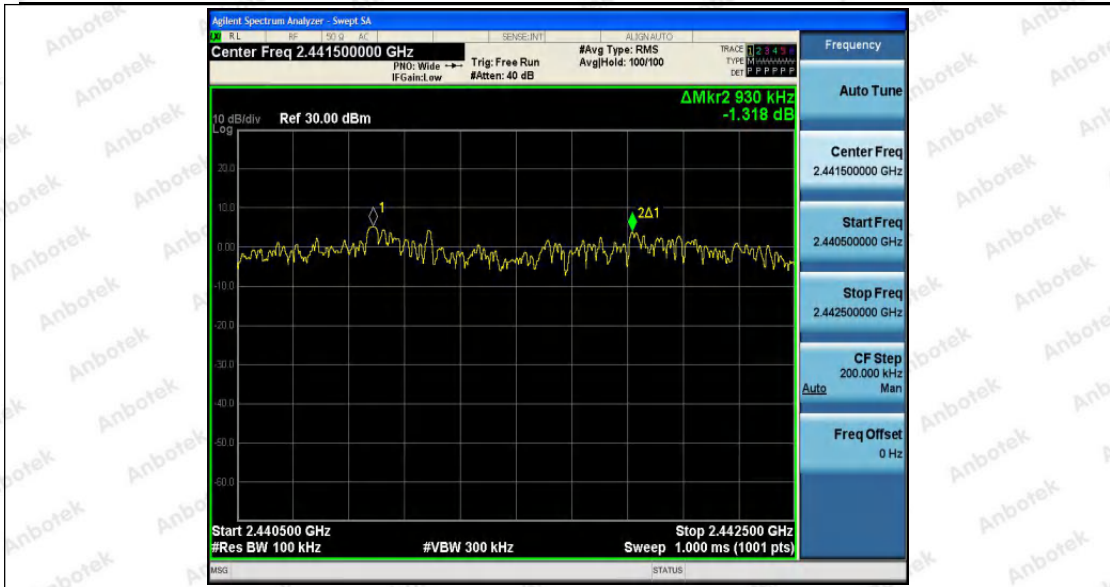


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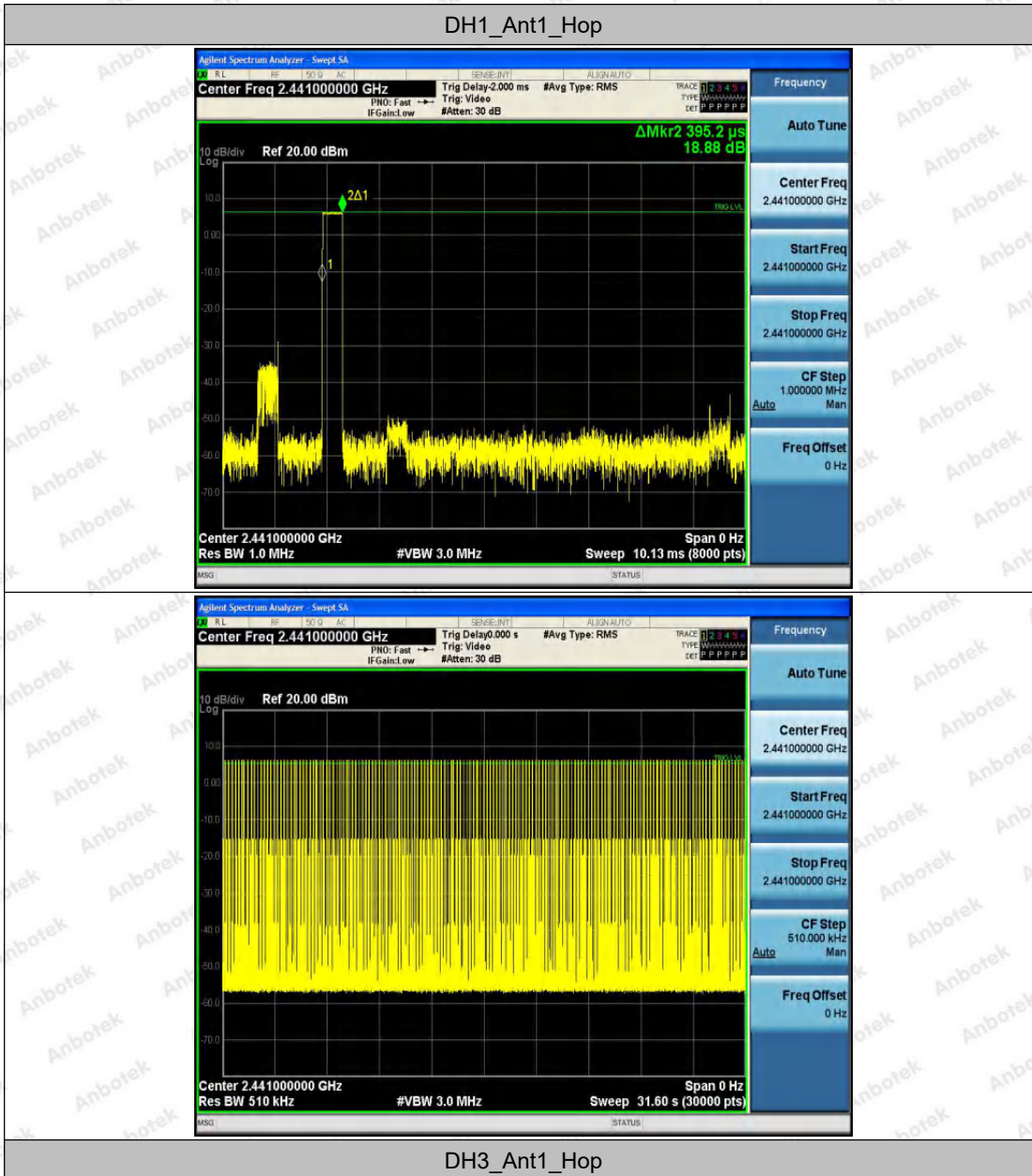
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Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.40	320	0.126	≤0.4	PASS
DH3	Ant1	Hop	1.65	152	0.251	≤0.4	PASS
DH5	Ant1	Hop	2.90	117	0.339	≤0.4	PASS
2DH1	Ant1	Hop	0.41	320	0.13	≤0.4	PASS
2DH3	Ant1	Hop	1.66	149	0.247	≤0.4	PASS
2DH5	Ant1	Hop	2.91	96	0.279	≤0.4	PASS
3DH1	Ant1	Hop	0.41	320	0.131	≤0.4	PASS
3DH3	Ant1	Hop	1.66	153	0.254	≤0.4	PASS
3DH5	Ant1	Hop	2.90	113	0.328	≤0.4	PASS

Test Graphs





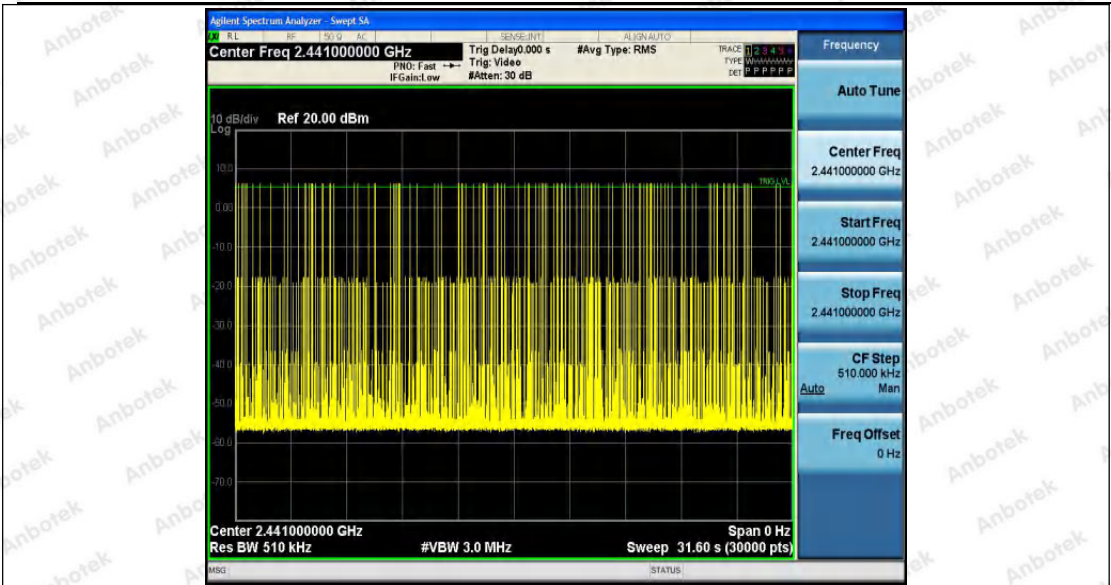
DH5_Ant1_Hop

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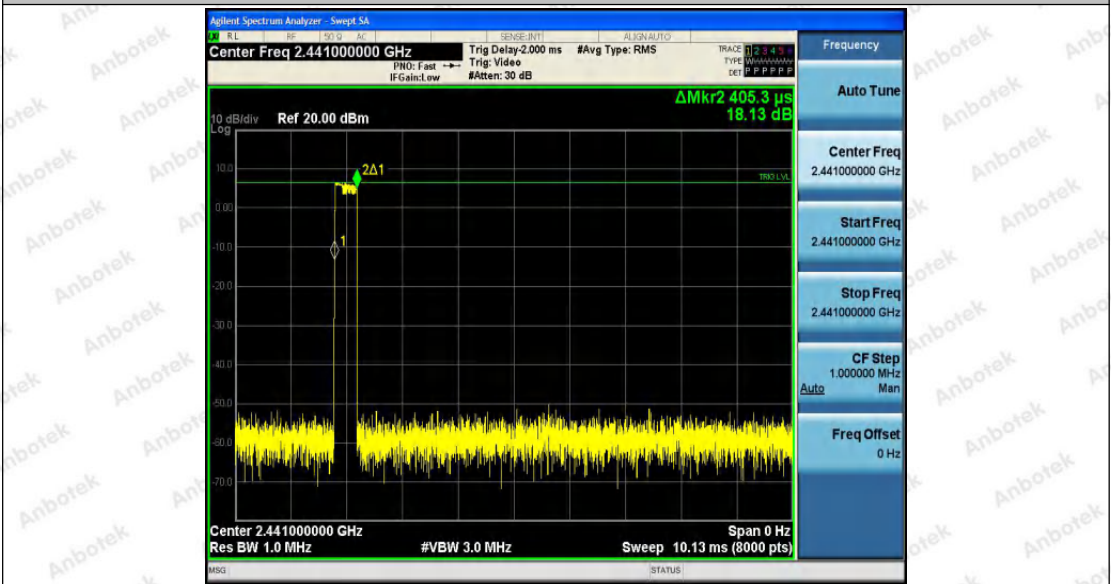
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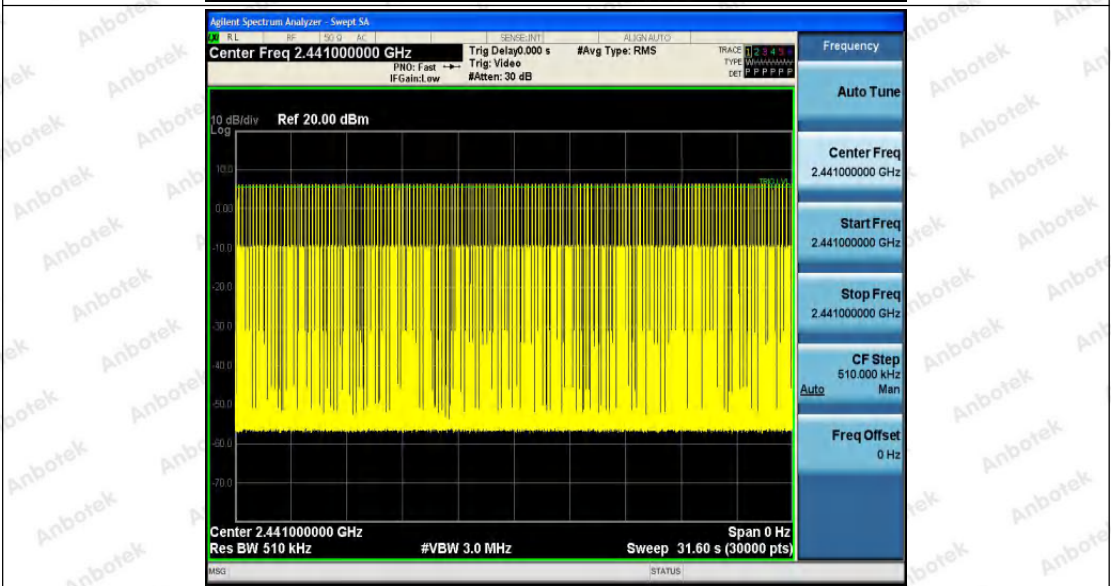
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2DH1_Ant1_Hop



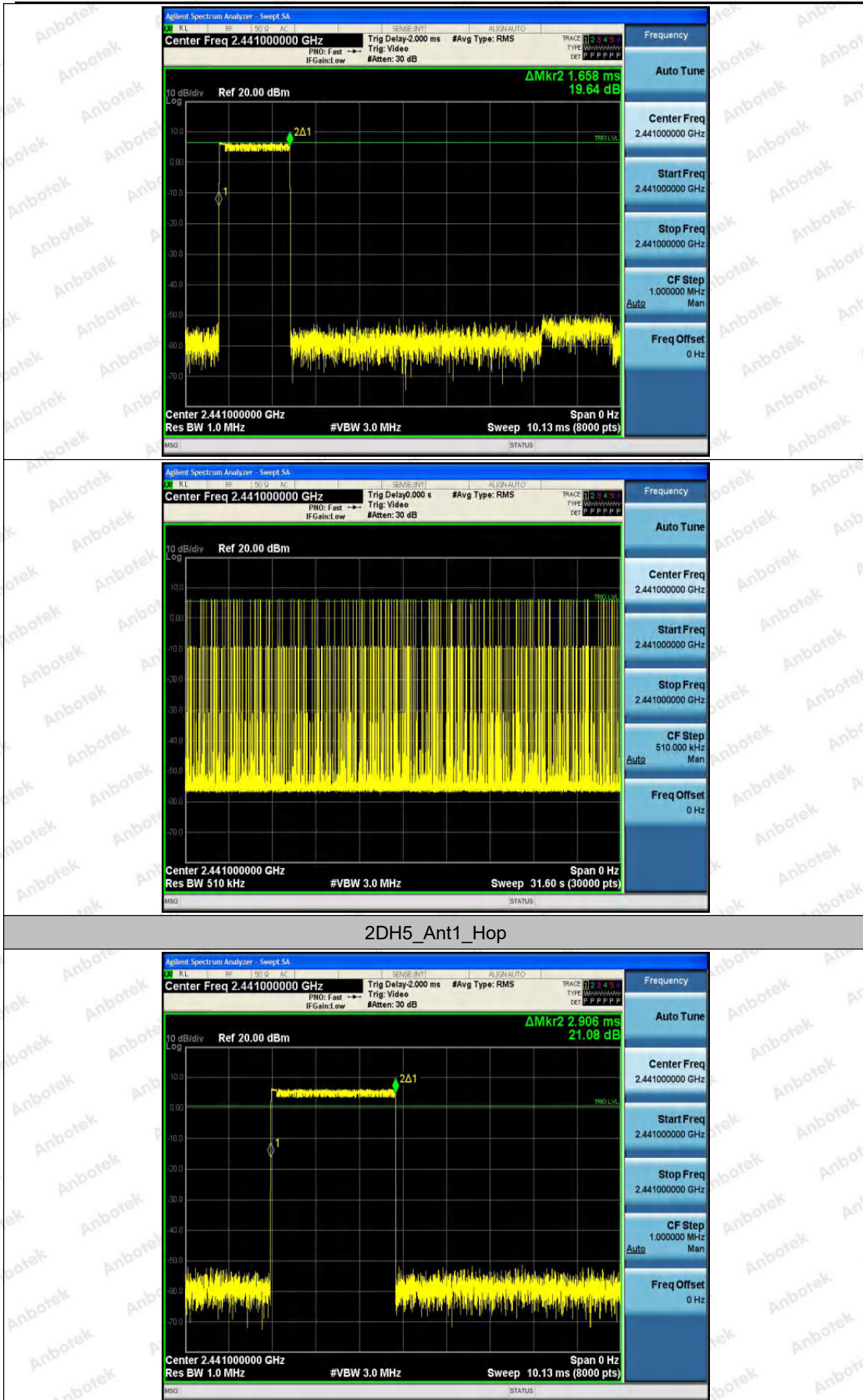
2DH3_Ant1_Hop



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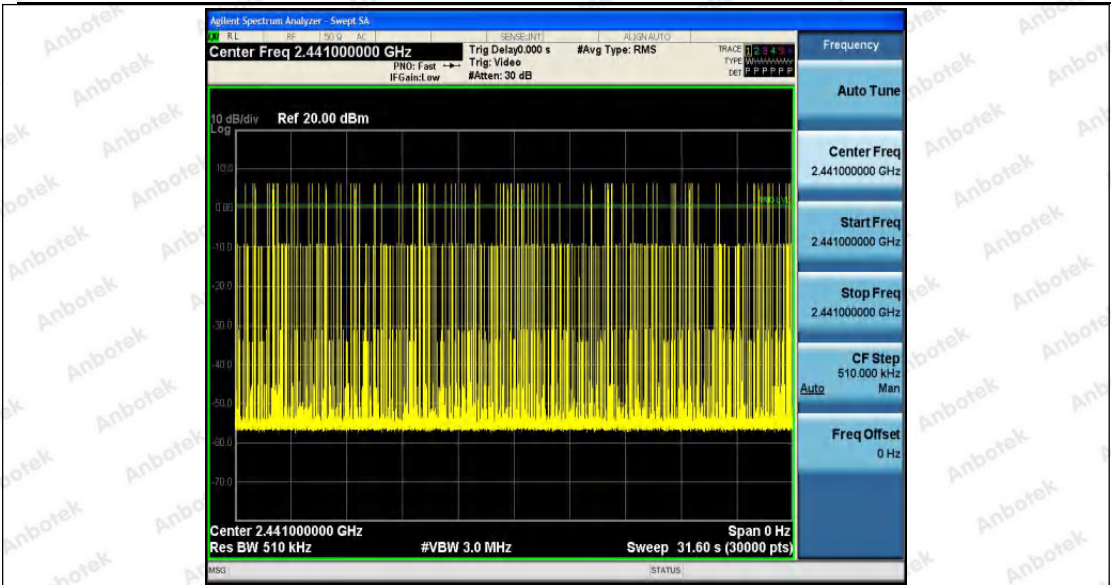


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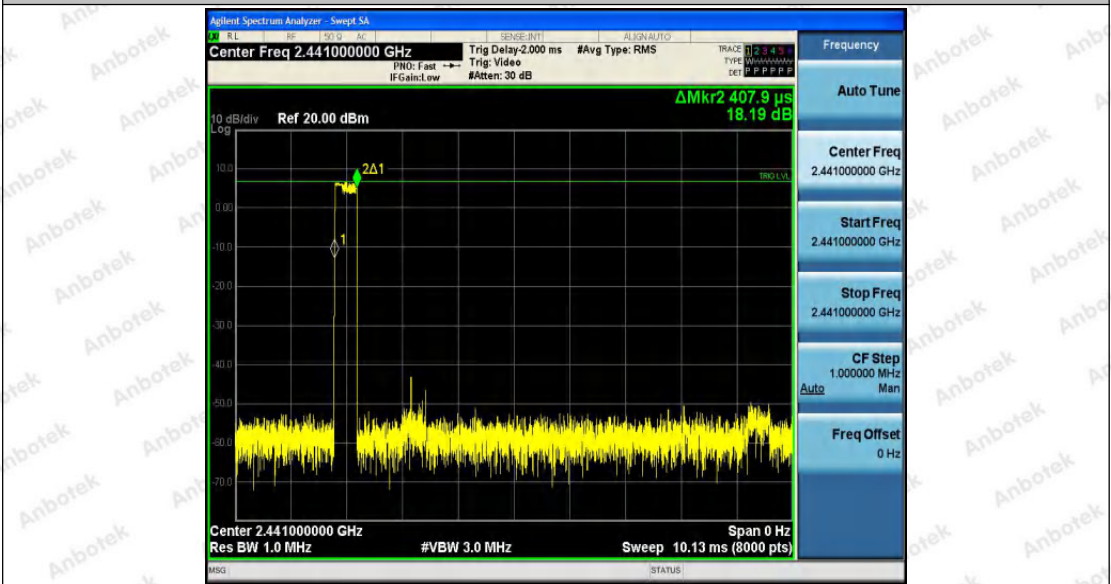
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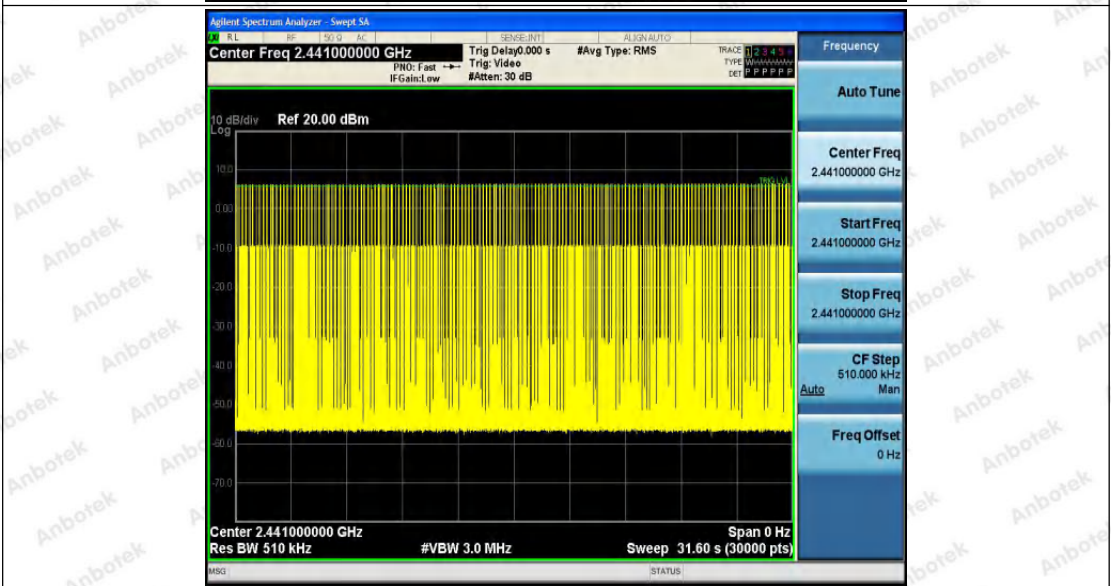
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3DH1_Ant1_Hop



3DH3_Ant1_Hop



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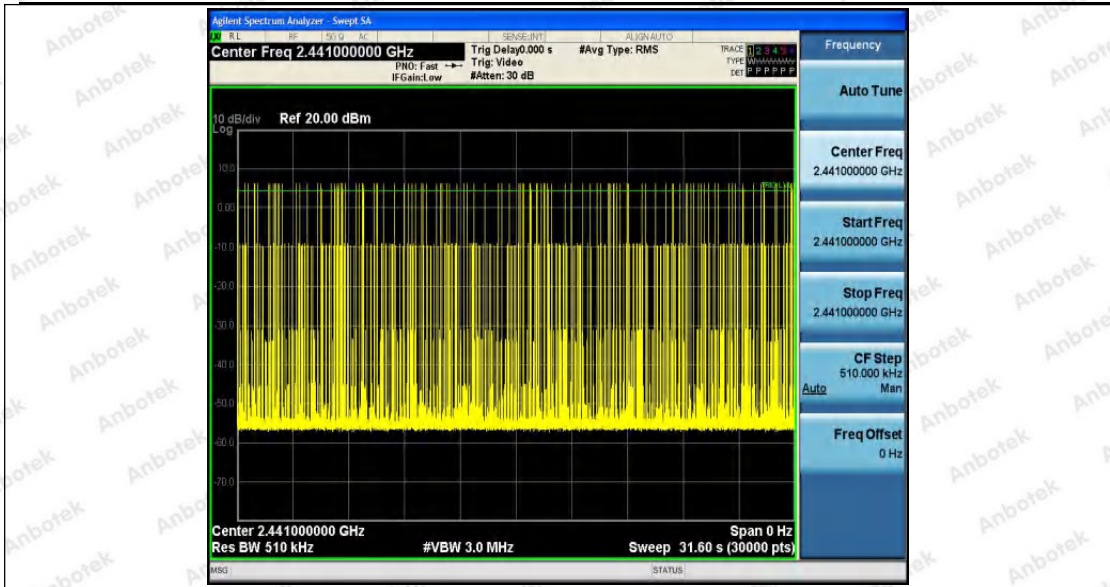
3DH5_Ant1_Hop

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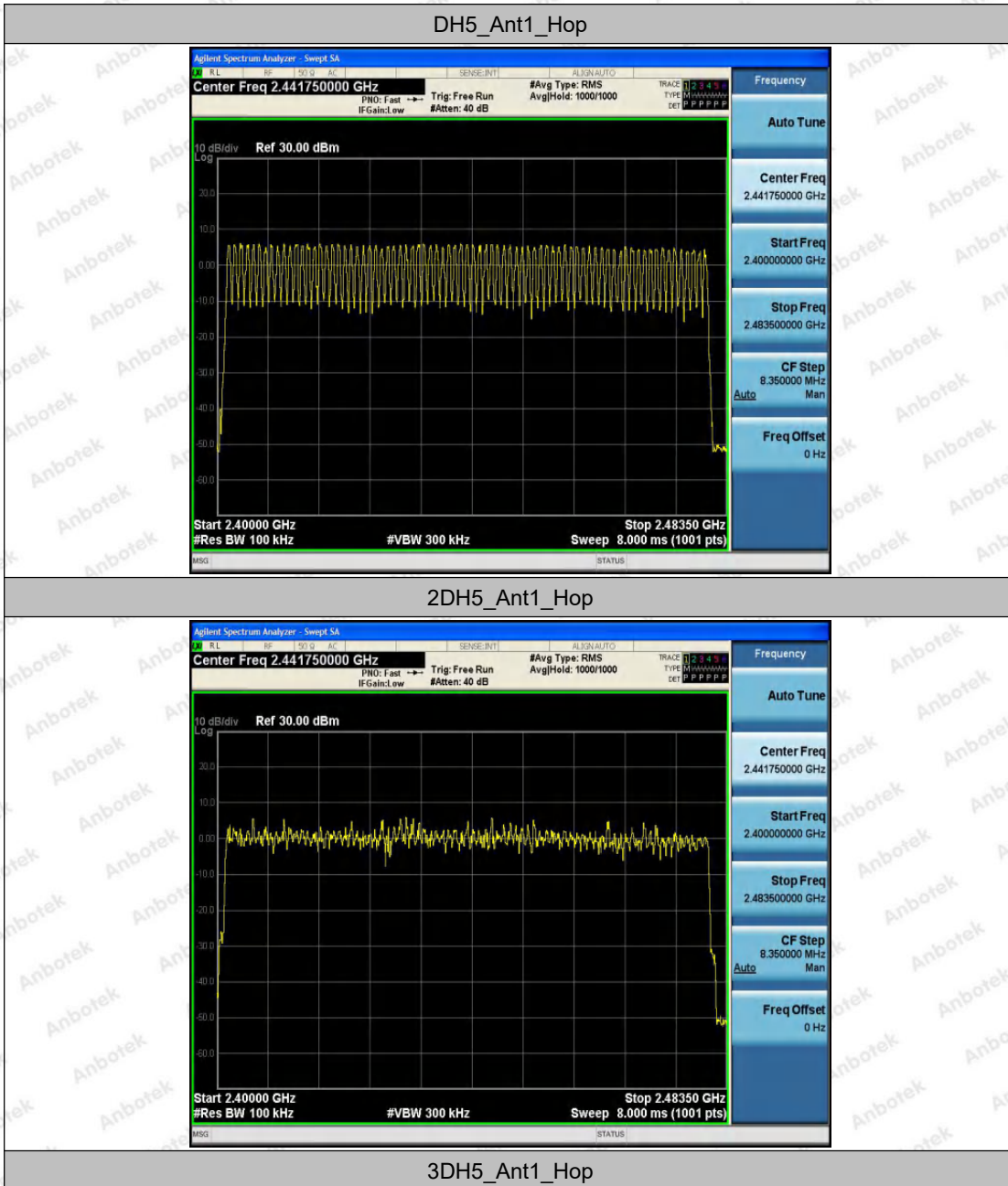
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Appendix F: Number of hopping channels

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

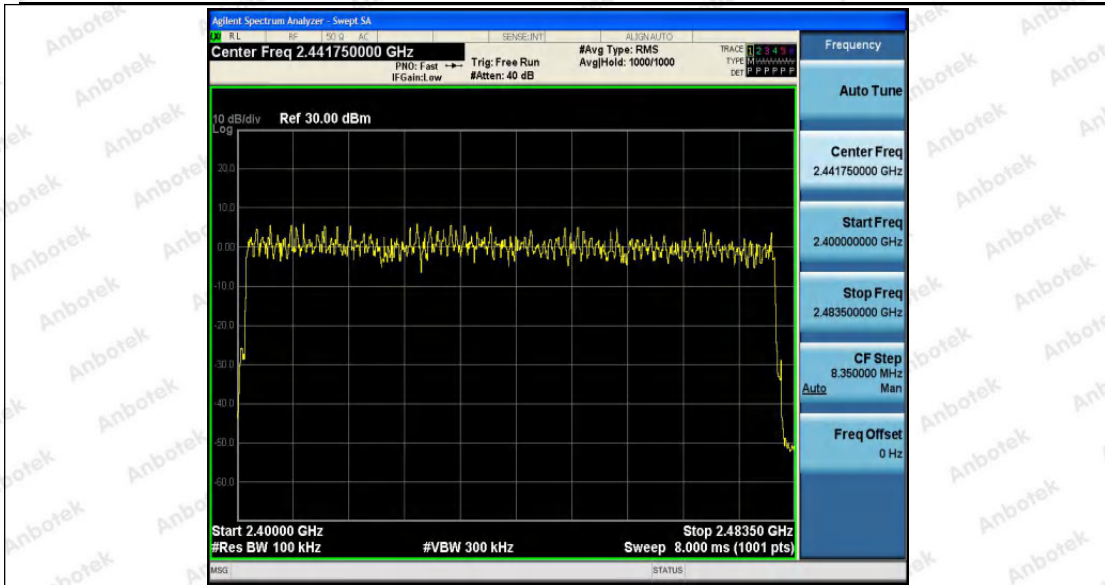


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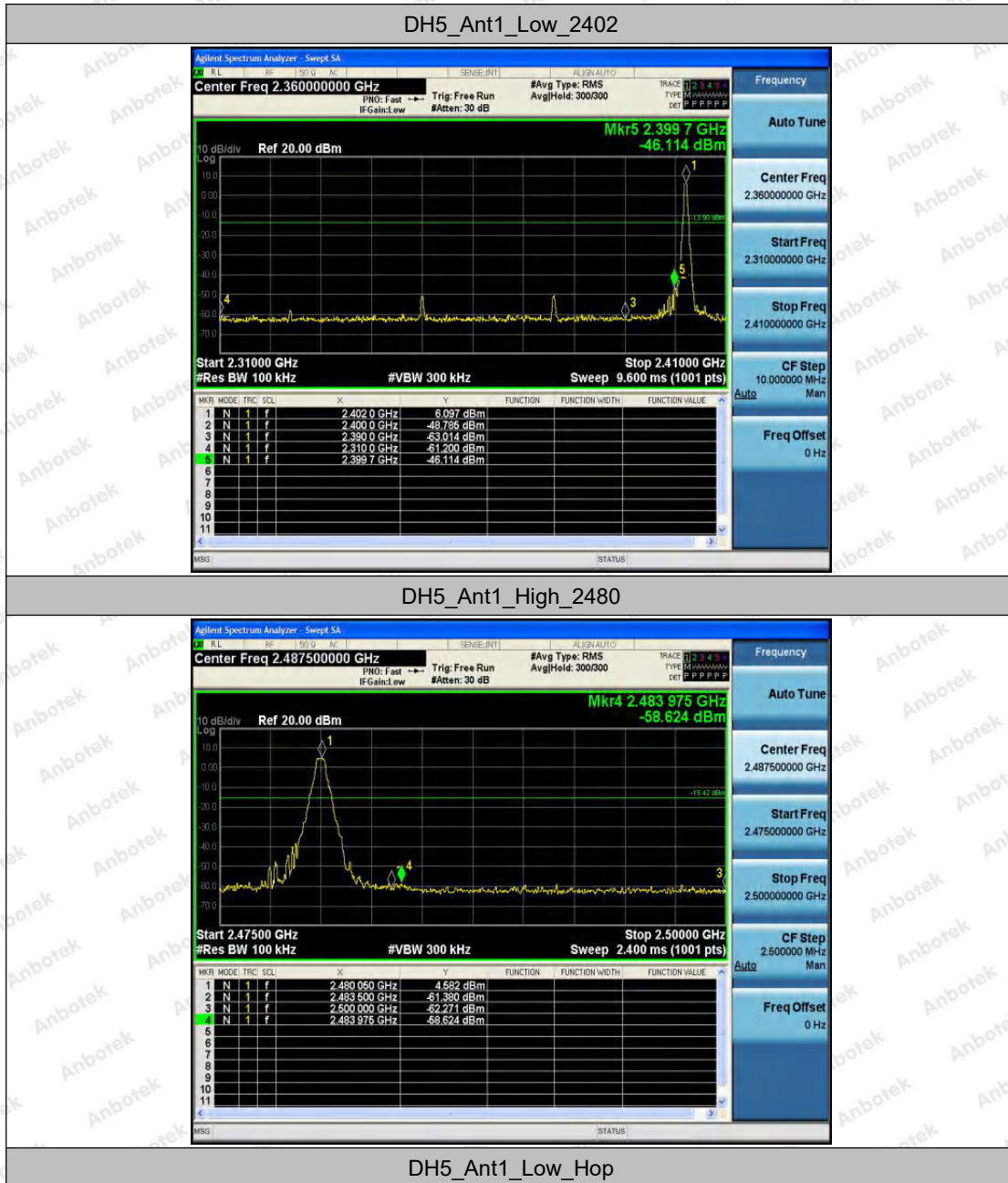
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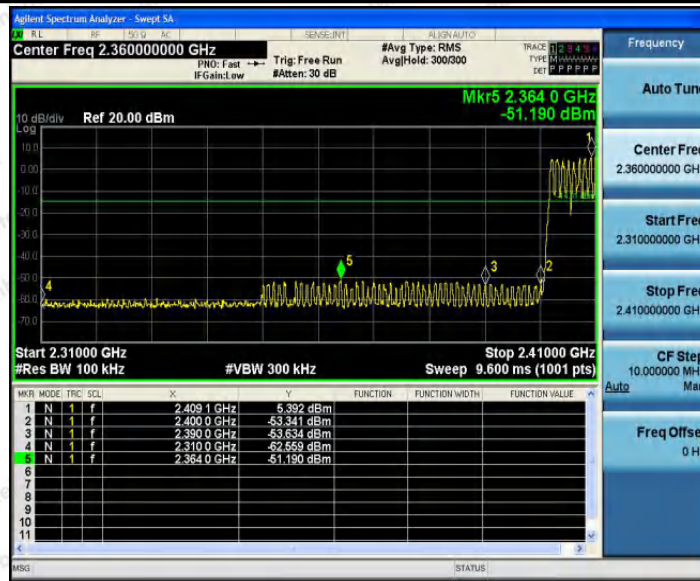
Appendix G: Band edge measurements

Test Result

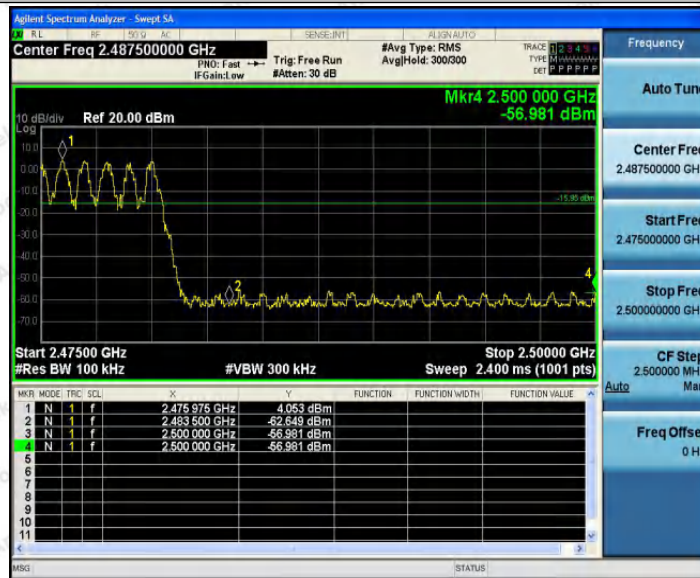
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	6.10	-46.11	≤-13.9	PASS
		High	2480	4.58	-58.62	≤-15.42	PASS
		Low	Hop	5.39	-51.19	≤-14.61	PASS
		High	Hop	4.05	-56.98	≤-15.95	PASS
2DH5	Ant1	Low	2402	5.71	-39	≤-14.29	PASS
		High	2480	4.04	-59.15	≤-15.97	PASS
		Low	Hop	4.94	-50.84	≤-15.06	PASS
		High	Hop	1.03	-63.38	≤-18.97	PASS
3DH5	Ant1	Low	2402	5.52	-36.99	≤-14.48	PASS
		High	2480	4.29	-59.16	≤-15.71	PASS
		Low	Hop	5.00	-51.41	≤-15	PASS
		High	Hop	2.38	-60.27	≤-17.62	PASS

Test Graphs

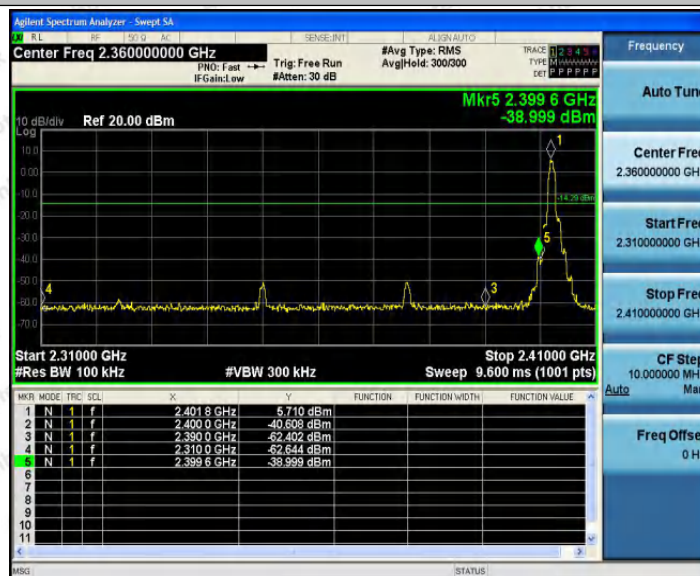




DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402

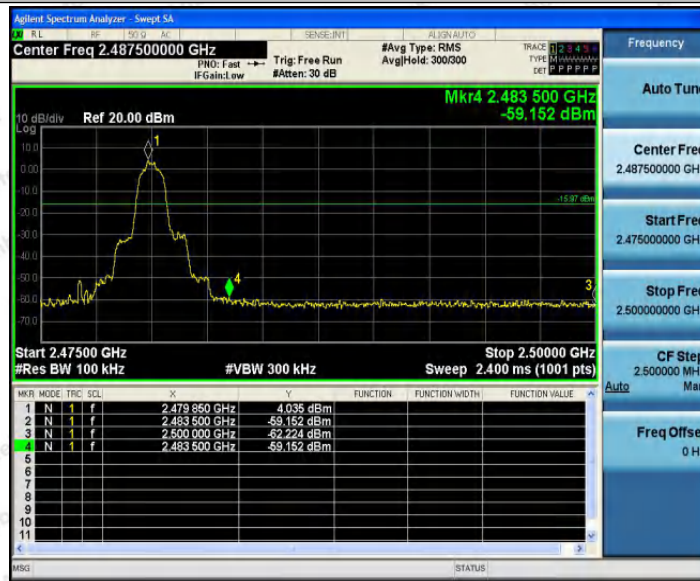


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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



2DH5_Ant1_High_Hop

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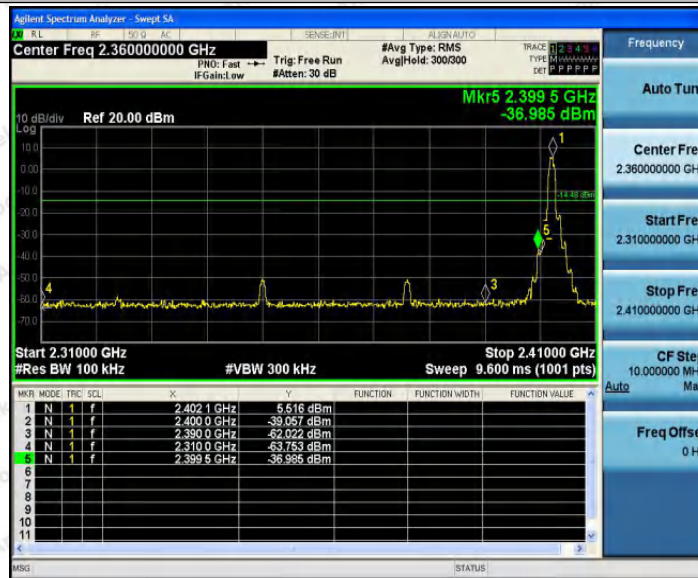
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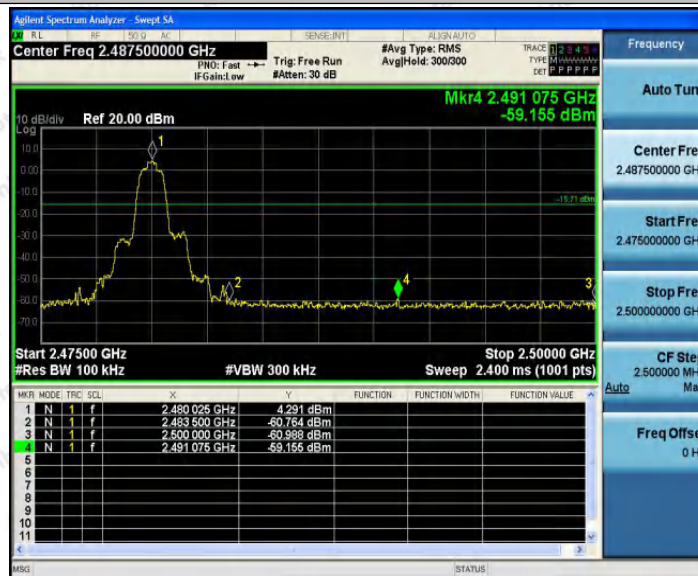
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

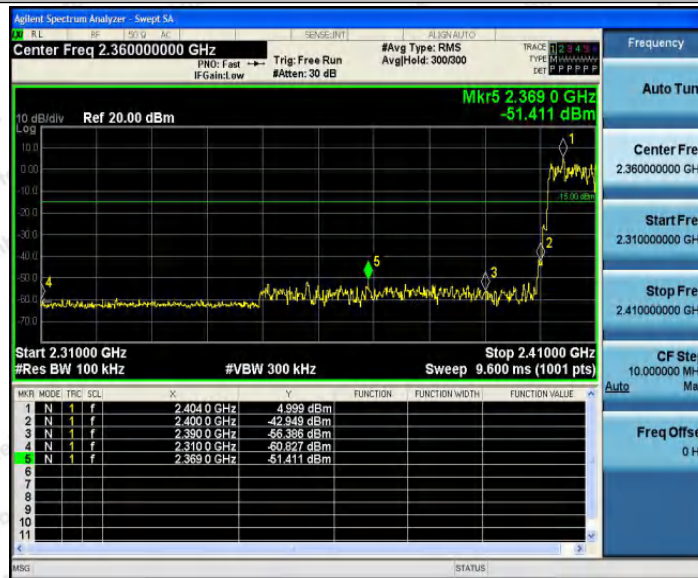


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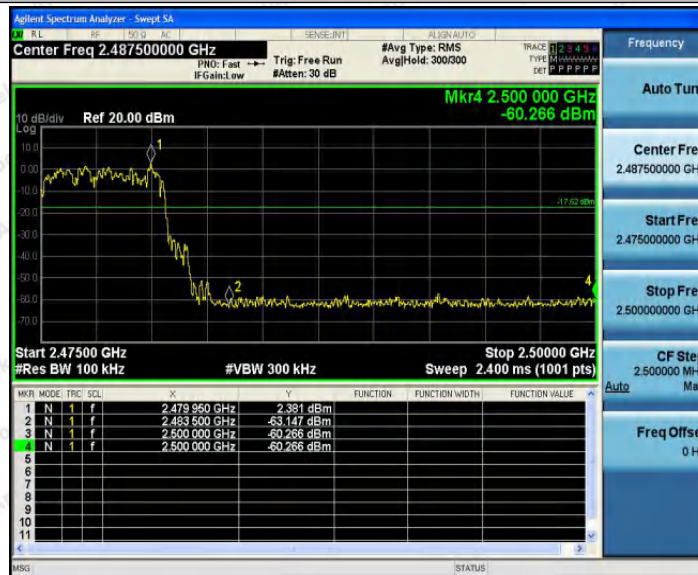
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3DH5_Ant1_Low_Hop



3DH5_Ant1_High_Hop



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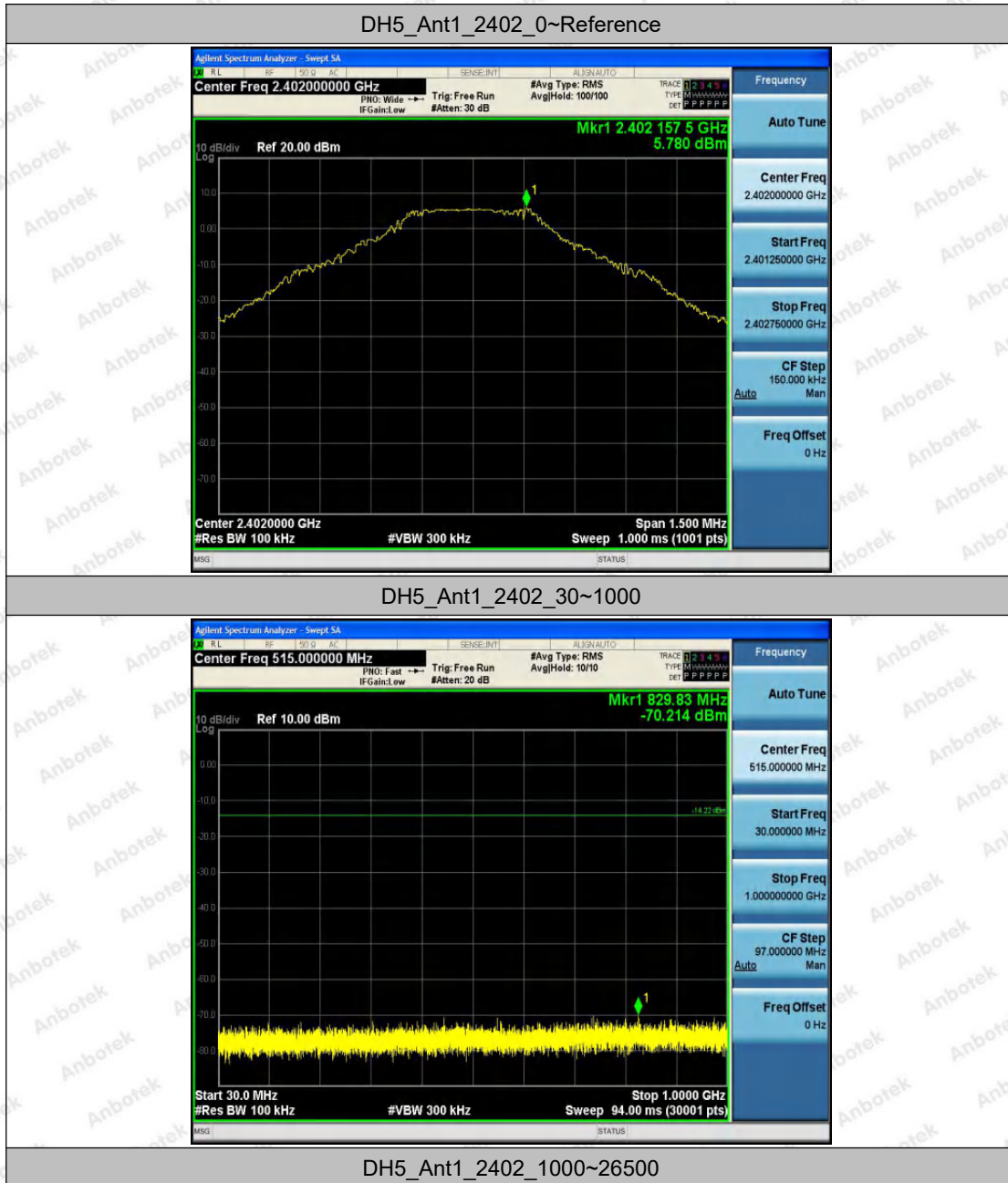
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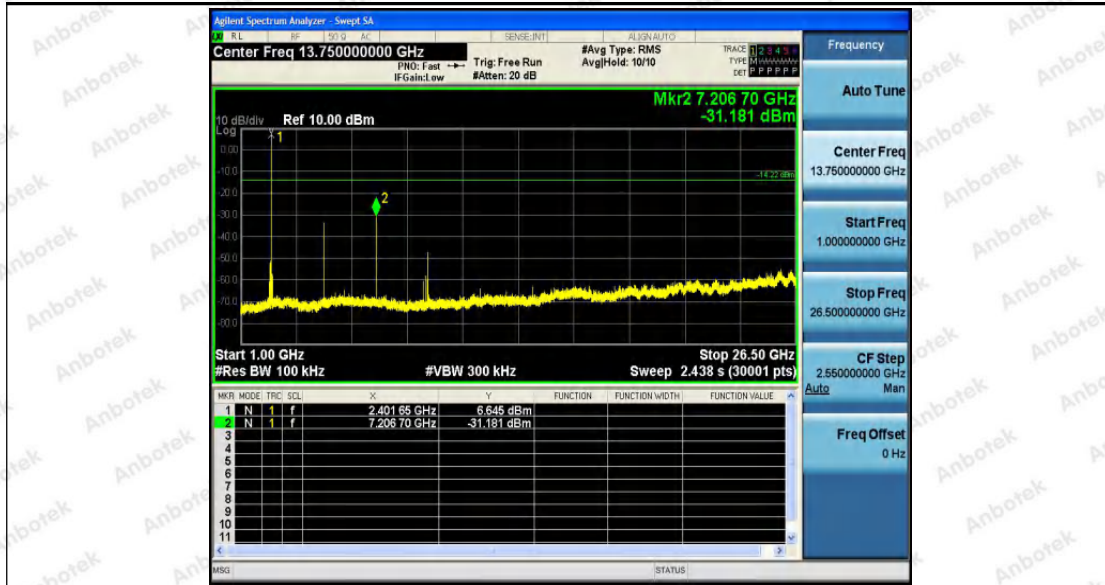
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	5.78	5.78	---	PASS
			30~1000	5.78	-70.21	≤-14.22	PASS
			1000~26500	5.78	-31.18	≤-14.22	PASS
		2441	Reference	6.02	6.02	---	PASS
			30~1000	6.02	-70.16	≤-13.98	PASS
			1000~26500	6.02	-34.6	≤-13.98	PASS
		2480	Reference	4.16	4.16	---	PASS
			30~1000	4.16	-68.4	≤-15.84	PASS
			1000~26500	4.16	-41.65	≤-15.84	PASS
2DH5	Ant1	2402	Reference	5.82	5.82	---	PASS
			30~1000	5.82	-69.51	≤-14.18	PASS
			1000~26500	5.82	-37.26	≤-14.18	PASS
		2441	Reference	5.35	5.35	---	PASS
			30~1000	5.35	-70.57	≤-14.65	PASS
			1000~26500	5.35	-36.03	≤-14.65	PASS
		2480	Reference	4.35	4.35	---	PASS
			30~1000	4.35	-70.77	≤-15.66	PASS
			1000~26500	4.35	-44.37	≤-15.66	PASS
3DH5	Ant1	2402	Reference	5.84	5.84	---	PASS
			30~1000	5.84	-63.6	≤-14.16	PASS
			1000~26500	5.84	-30.34	≤-14.16	PASS
		2441	Reference	5.43	5.43	---	PASS
			30~1000	5.43	-69.9	≤-14.57	PASS
			1000~26500	5.43	-36.43	≤-14.57	PASS
		2480	Reference	4.29	4.29	---	PASS
			30~1000	4.29	-70.67	≤-15.71	PASS
			1000~26500	4.29	-39.59	≤-15.71	PASS

Test Graphs

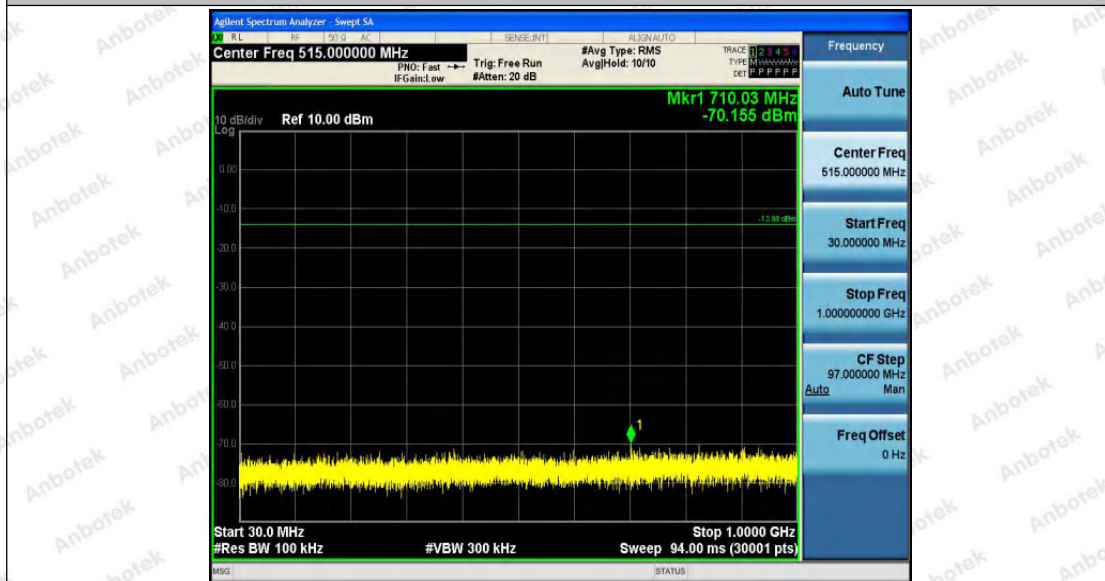




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

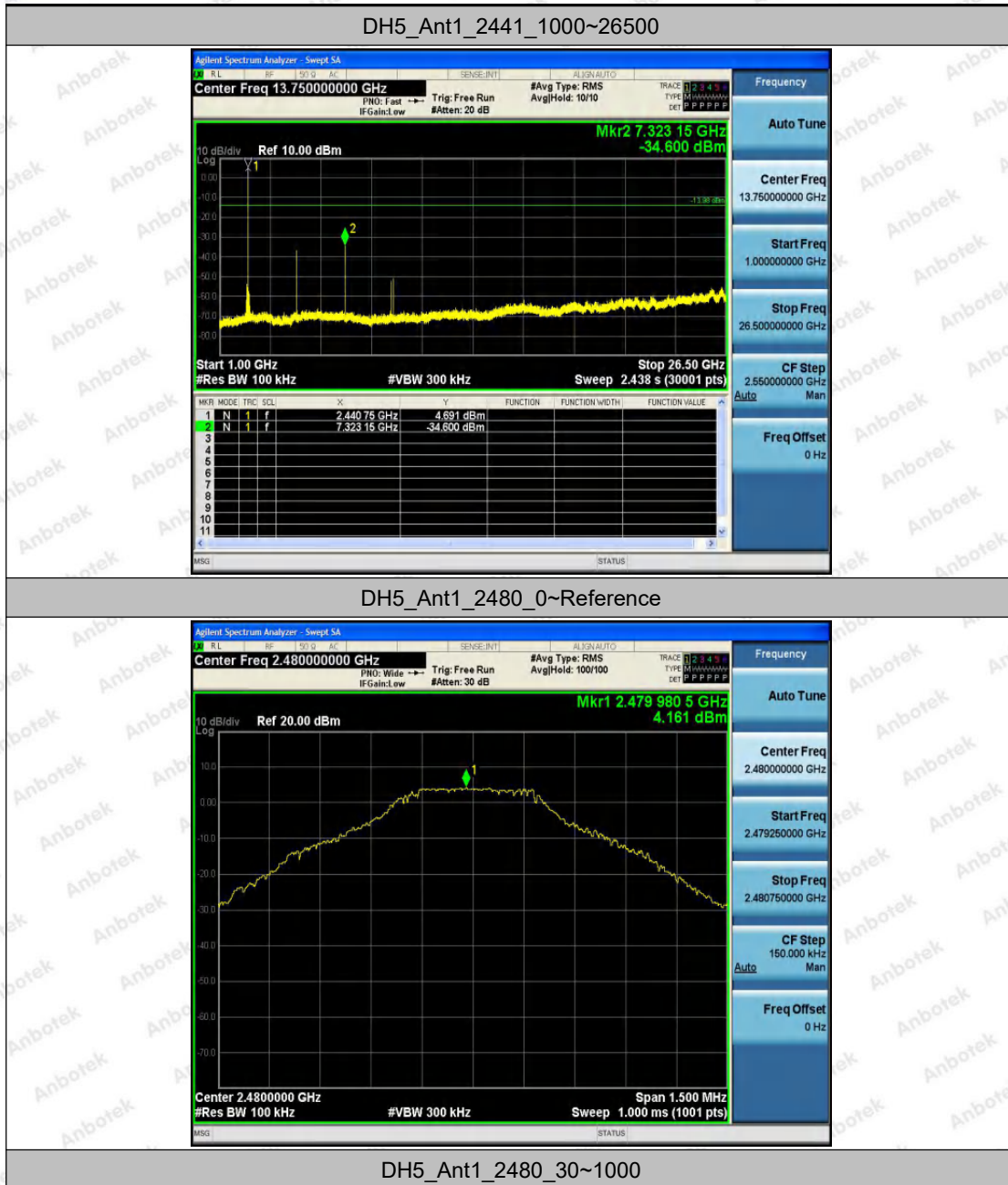


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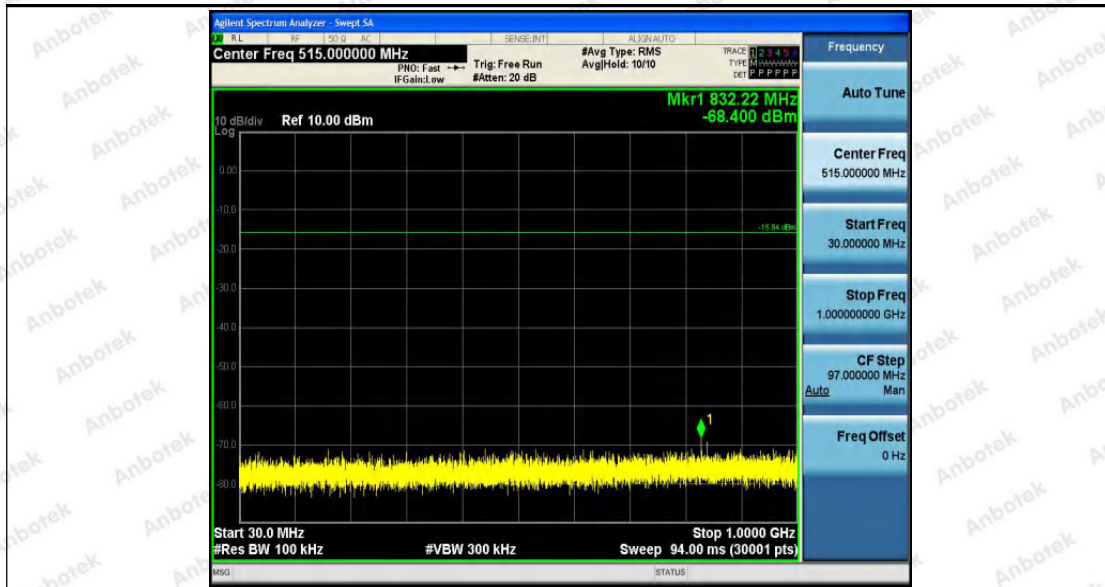


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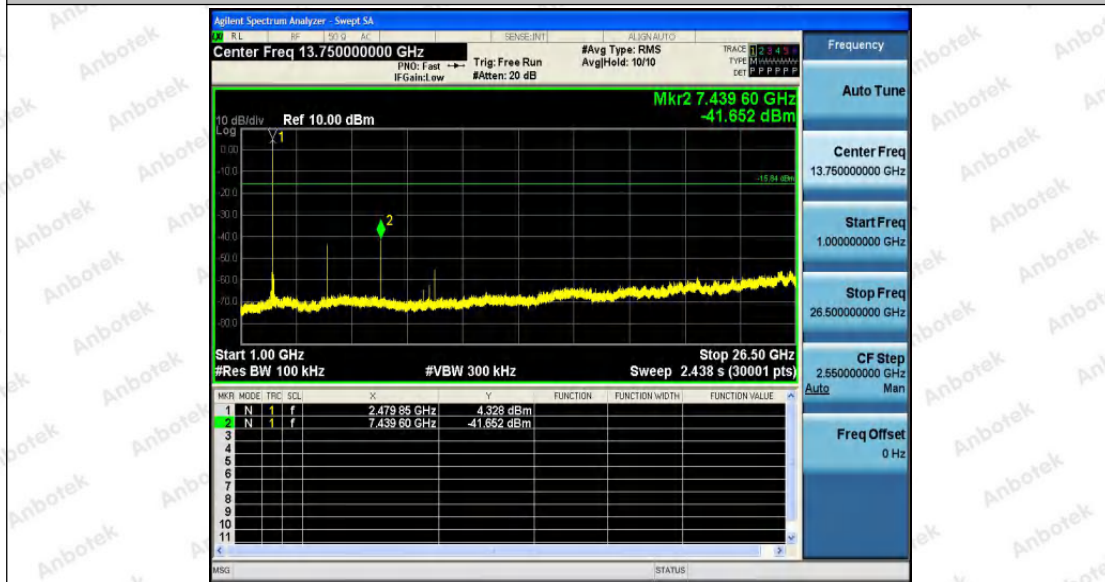
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DH5_Ant1_2480_1000~26500



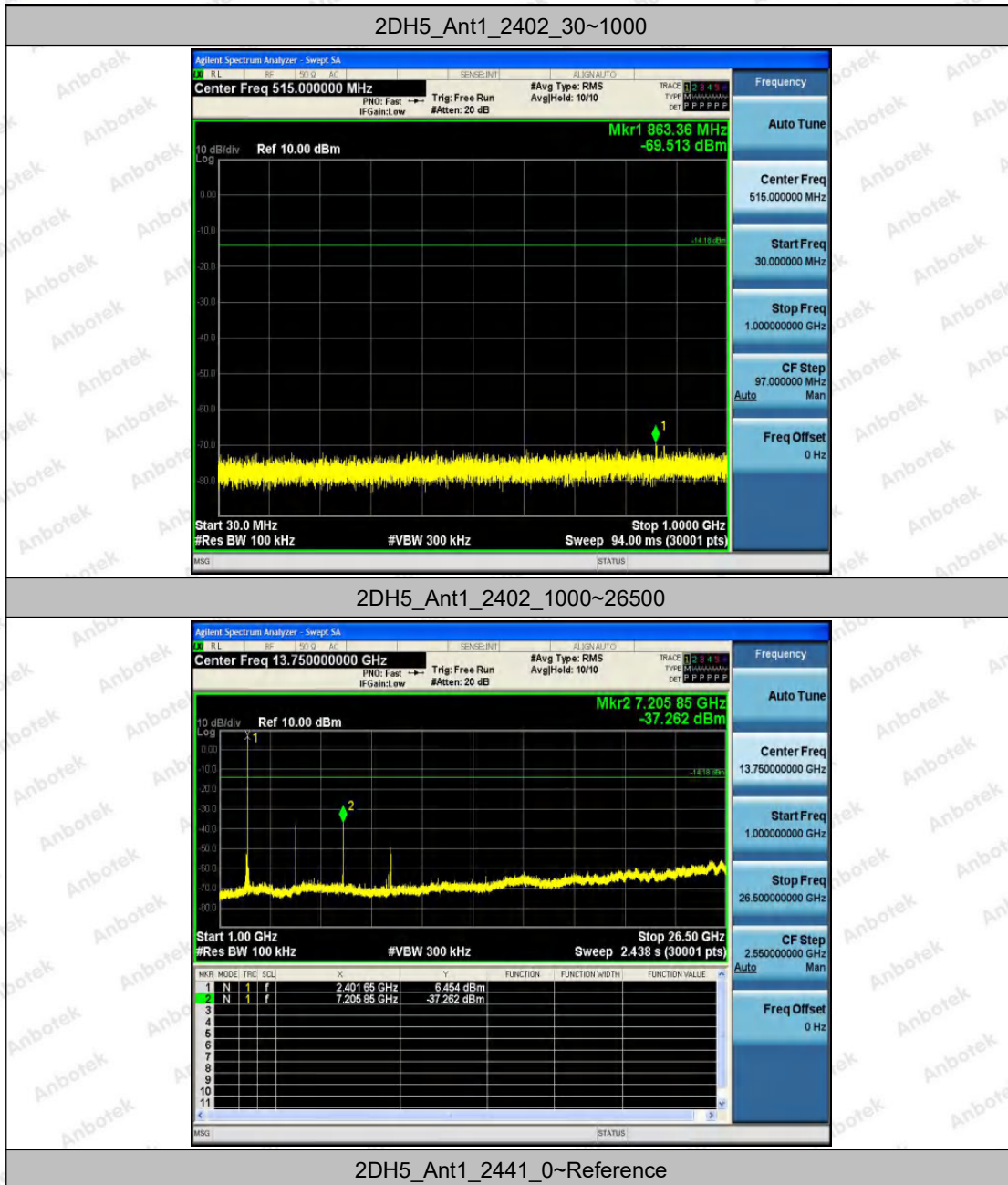
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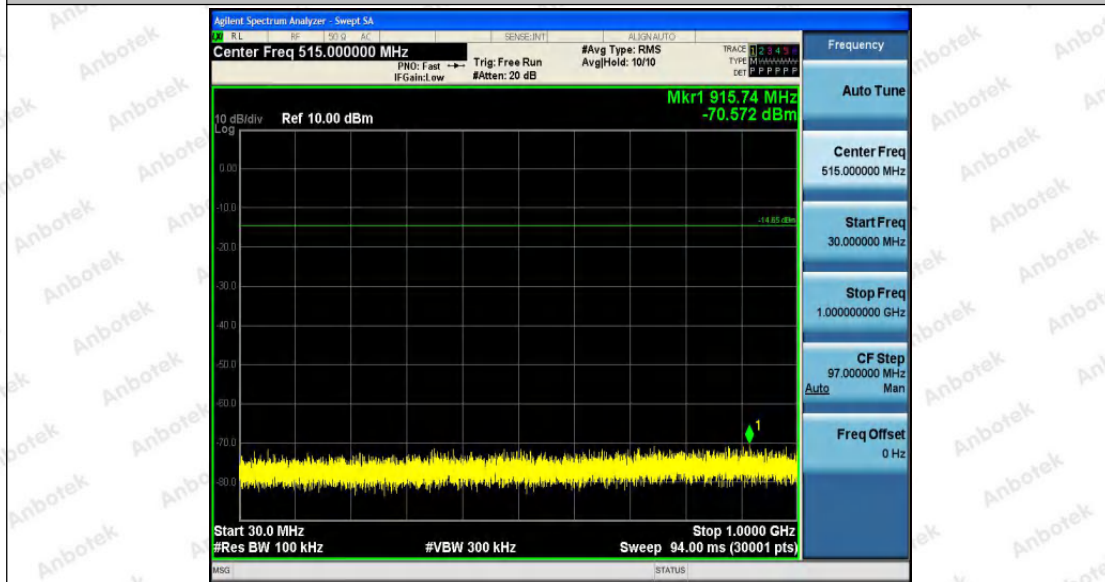
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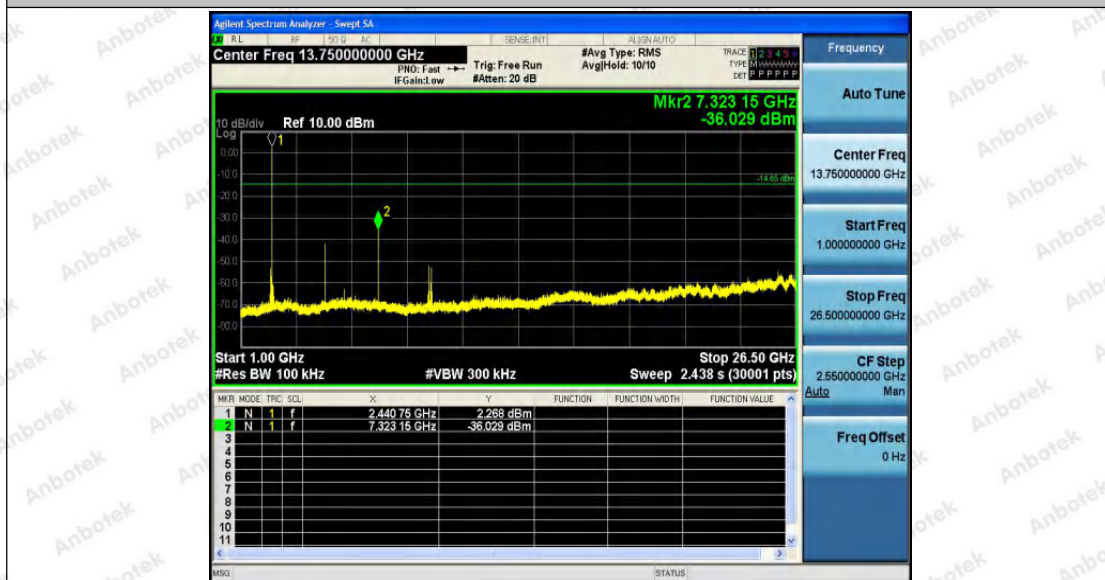
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2DH5_Ant1_2441_30~1000



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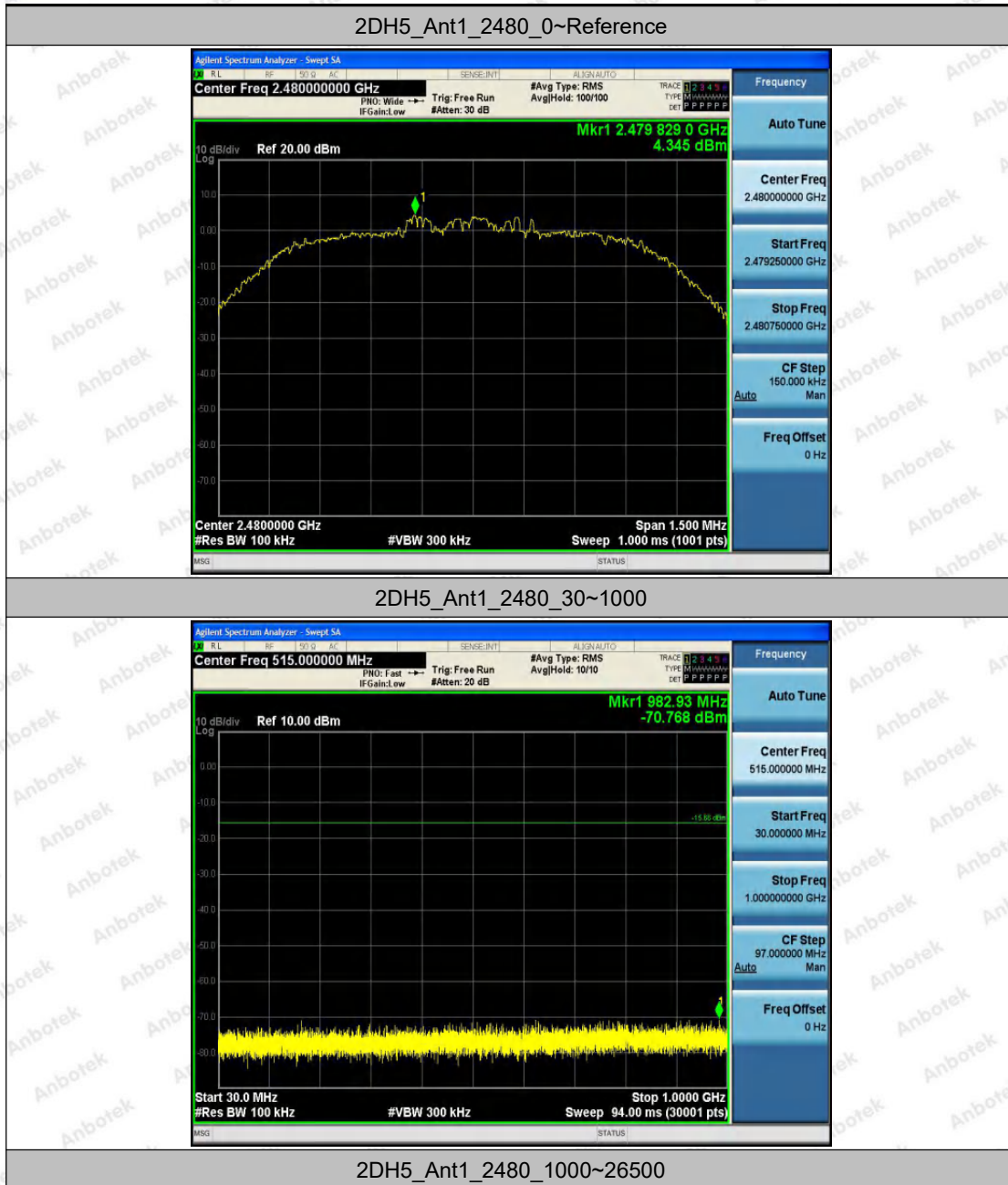


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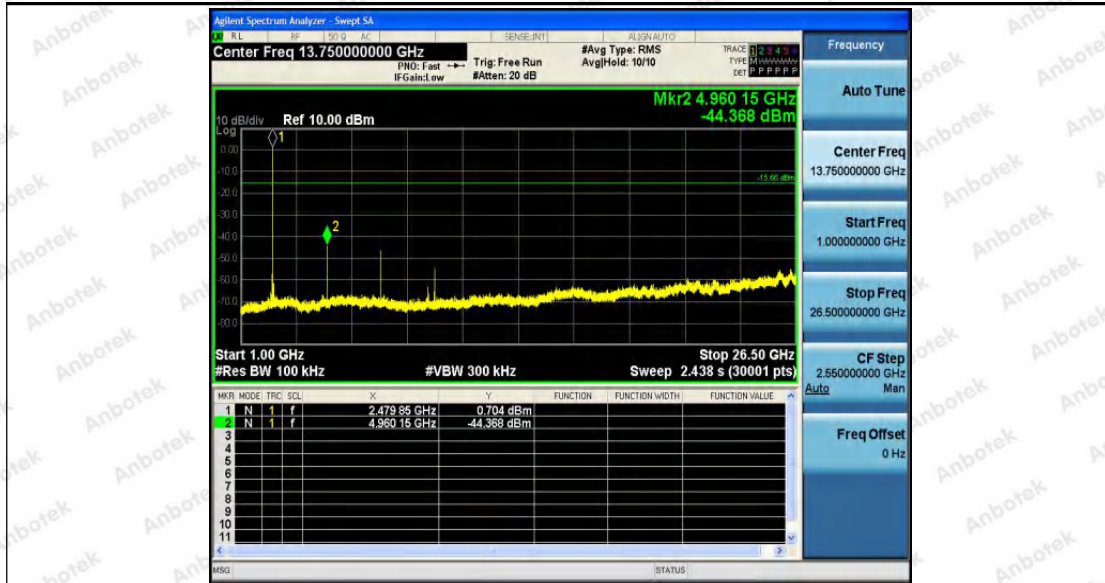
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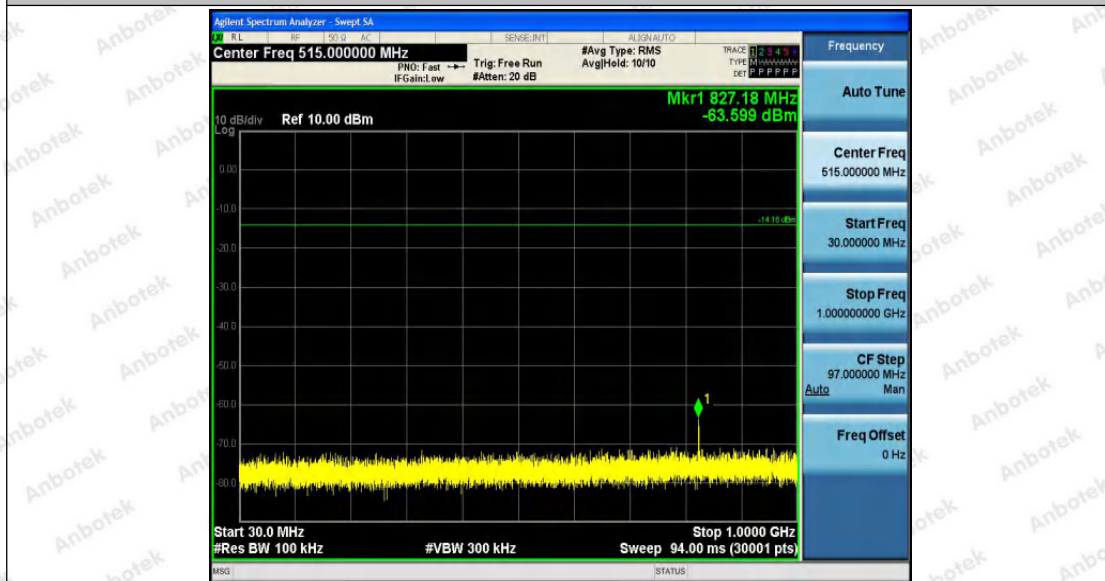
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3DH5_Ant1_2402_0~Reference



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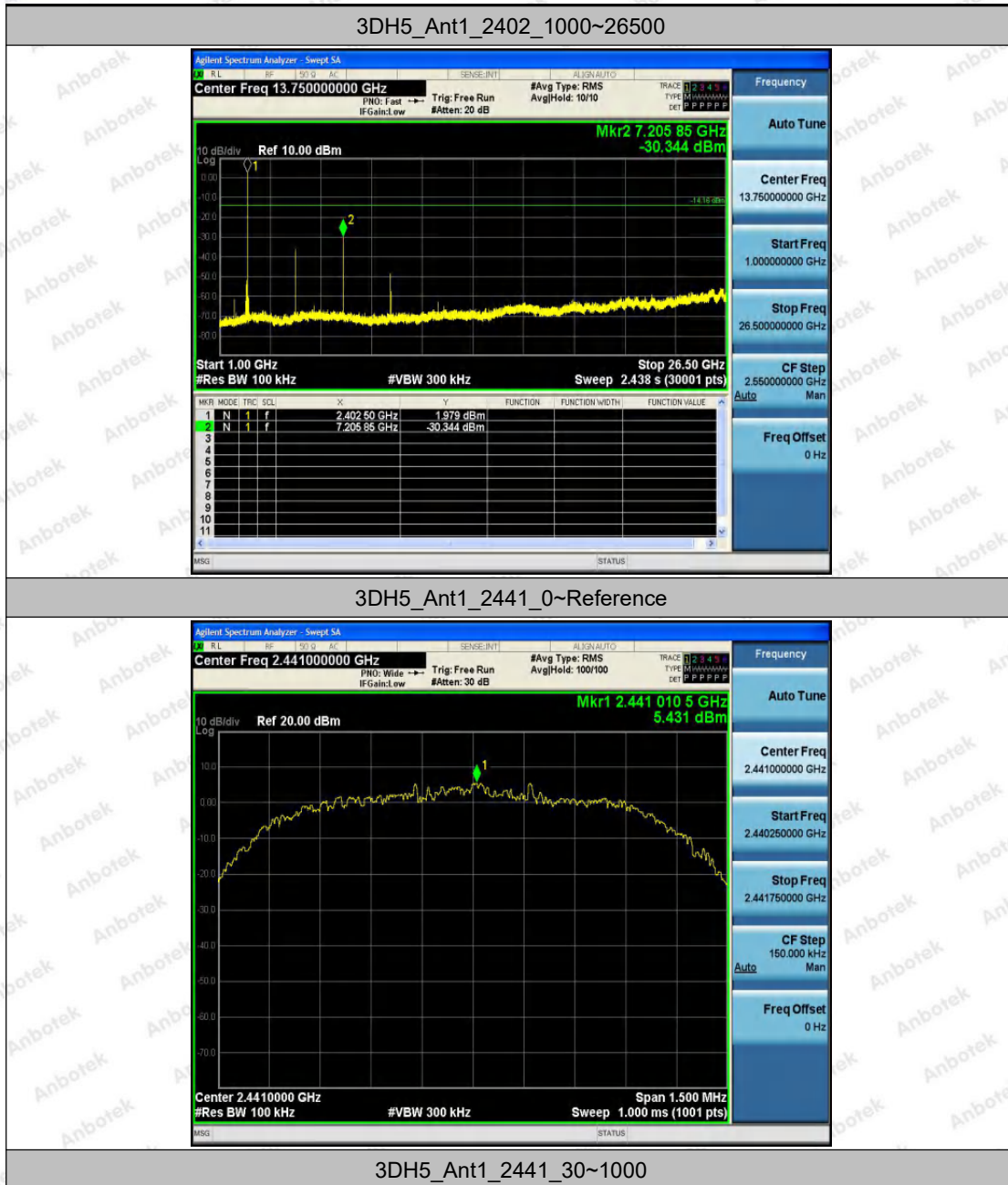


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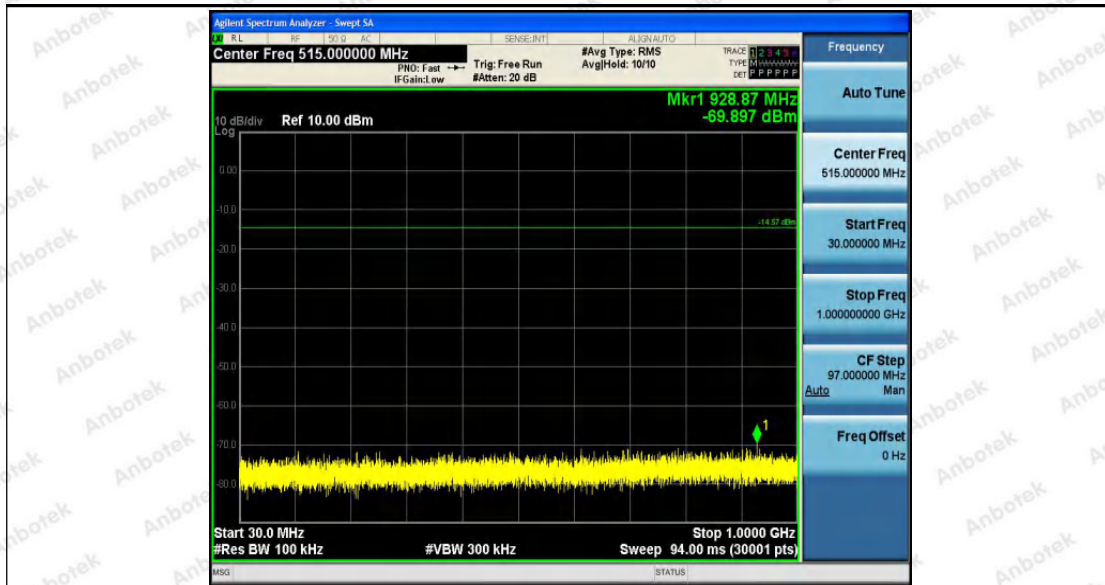
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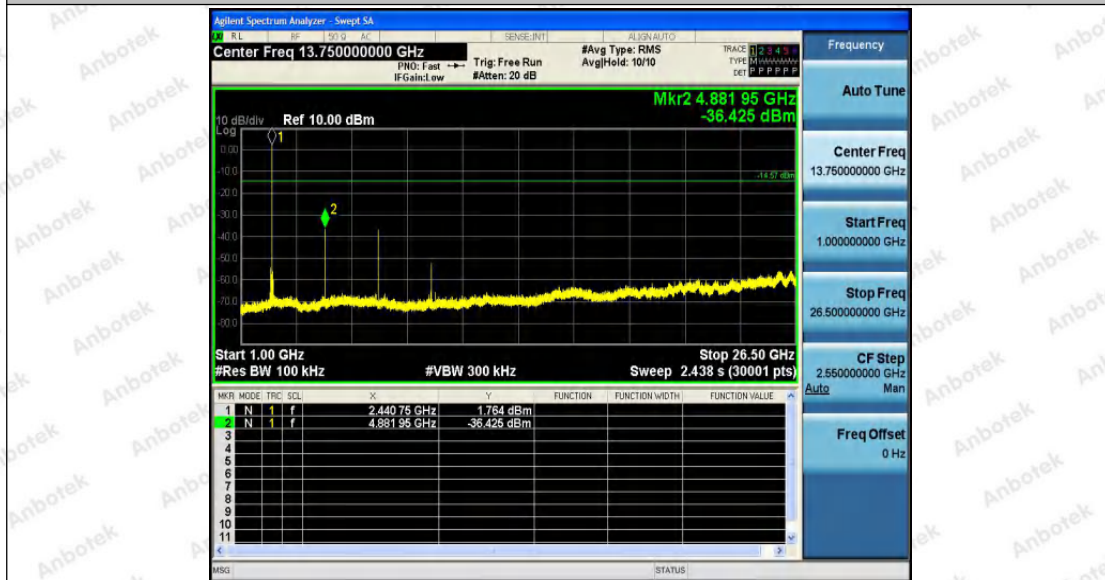
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

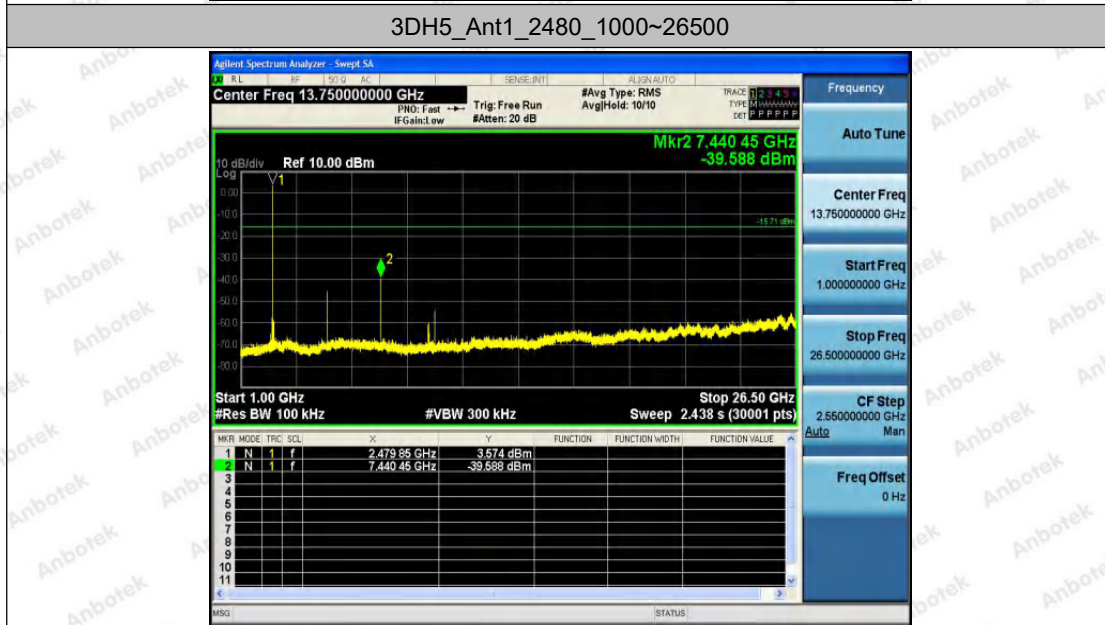
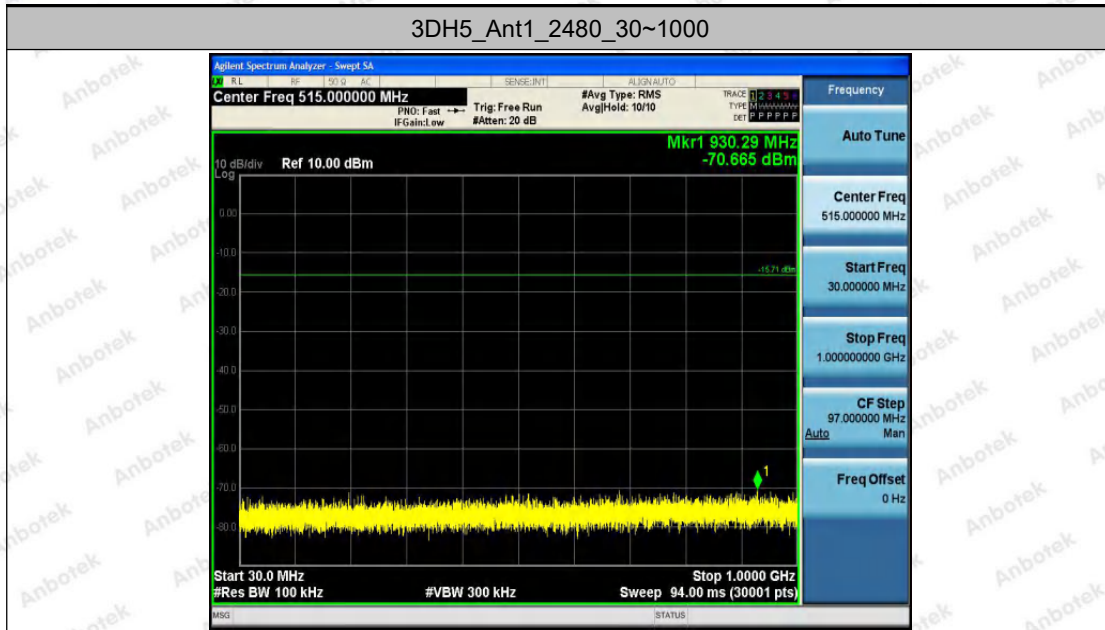


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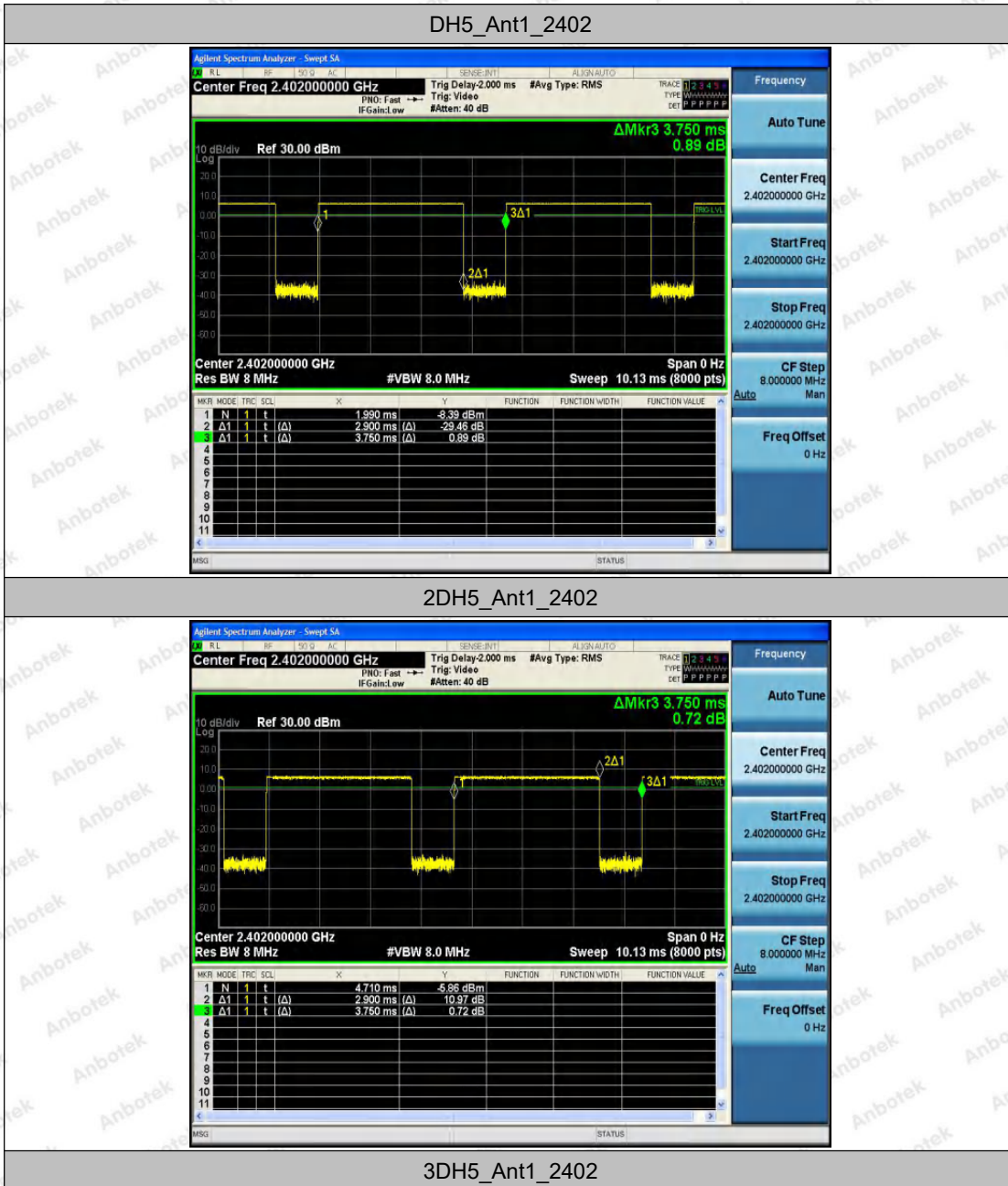
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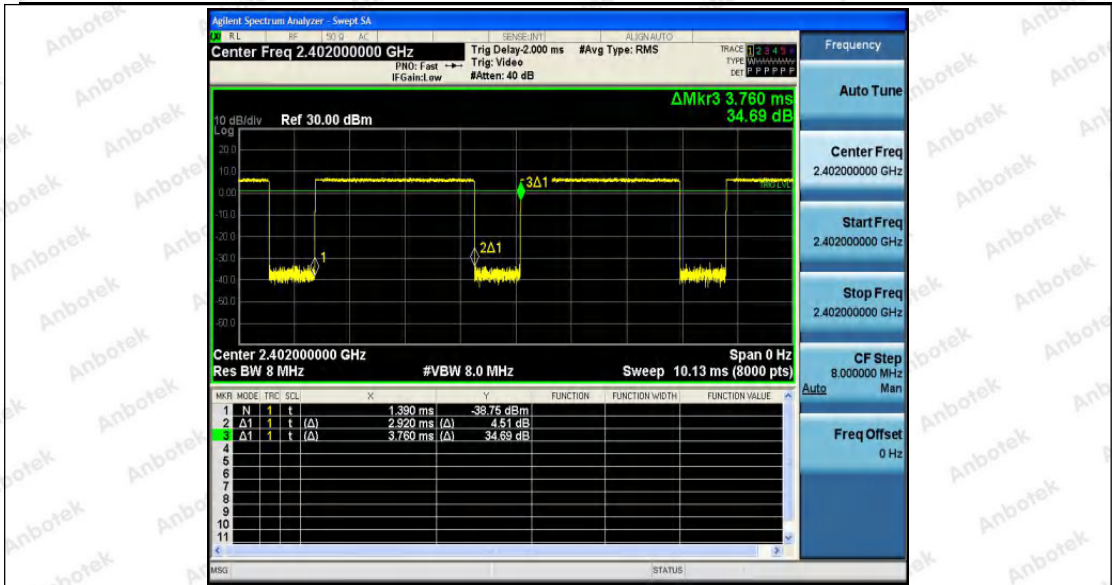
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.90	3.75	0.773 3	77.33	1.12	---	PASS
2DH5	Ant1	2402	2.90	3.75	0.773 3	77.33	1.12	---	PASS
3DH5	Ant1	2402	2.92	3.76	0.776 6	77.66	1.10	---	PASS

Test Graphs





---End---