

Appendix Test Data

Report No.:	18220WC10214901	Test Date:	2021.9.22
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	1.137	2401.421	2402.558	---	PASS
		2441	1.131	2440.433	2441.564	---	PASS
		2480	1.131	2479.433	2480.564	---	PASS
2DH5	Ant1	2402	1.368	2401.307	2402.675	---	PASS
		2441	1.347	2440.322	2441.669	---	PASS
		2480	1.347	2479.325	2480.672	---	PASS
3DH5	Ant1	2402	1.362	2401.313	2402.675	---	PASS
		2441	1.371	2440.316	2441.687	---	PASS
		2480	1.350	2479.316	2480.666	---	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

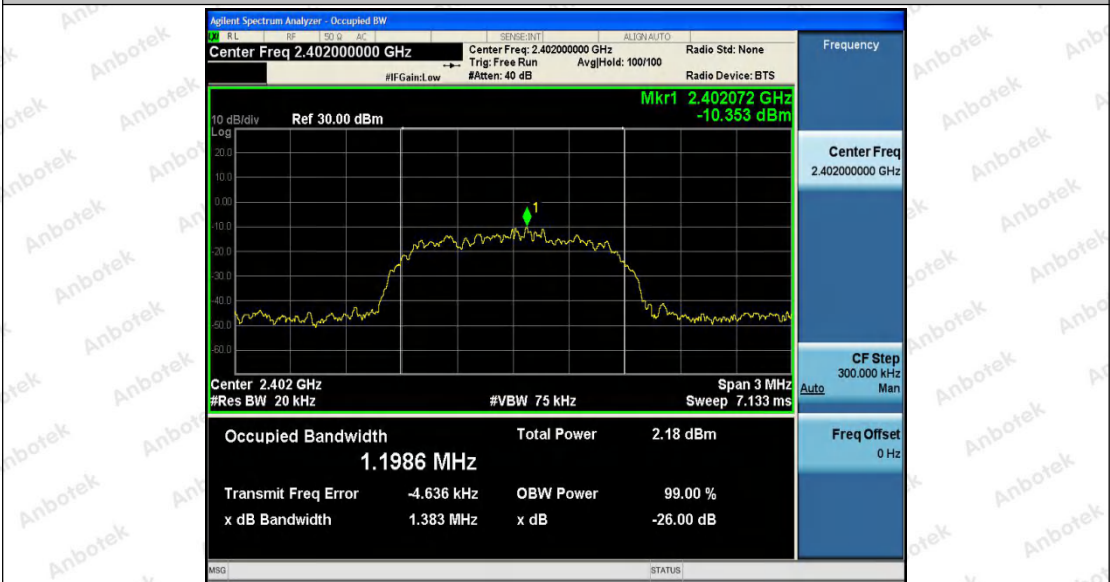
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88296	2401.55 6	2402.439	---	PASS
		2441	0.89499	2440.54 9	2441.444	---	PASS
		2480	0.89158	2479.55 1	2480.443	---	PASS
2DH5	Ant1	2402	1.1986	2401.39 6	2402.595	---	PASS
		2441	1.1888	2440.40 0	2441.589	---	PASS
		2480	1.1877	2479.39 9	2480.586	---	PASS
3DH5	Ant1	2402	1.2049	2401.38 4	2402.589	---	PASS
		2441	1.2047	2440.38 3	2441.588	---	PASS
		2480	1.1932	2479.39 4	2480.587	---	PASS

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441

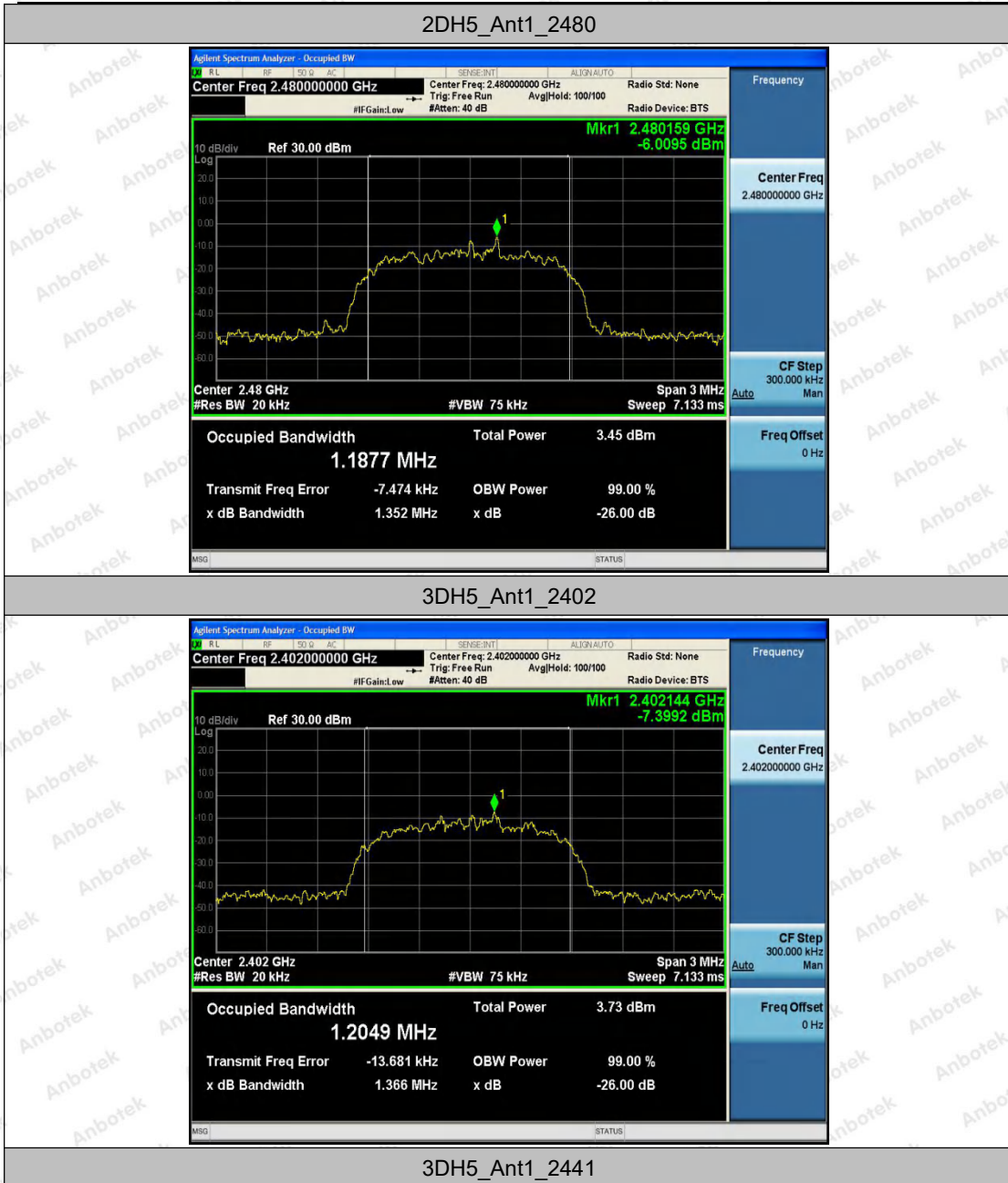


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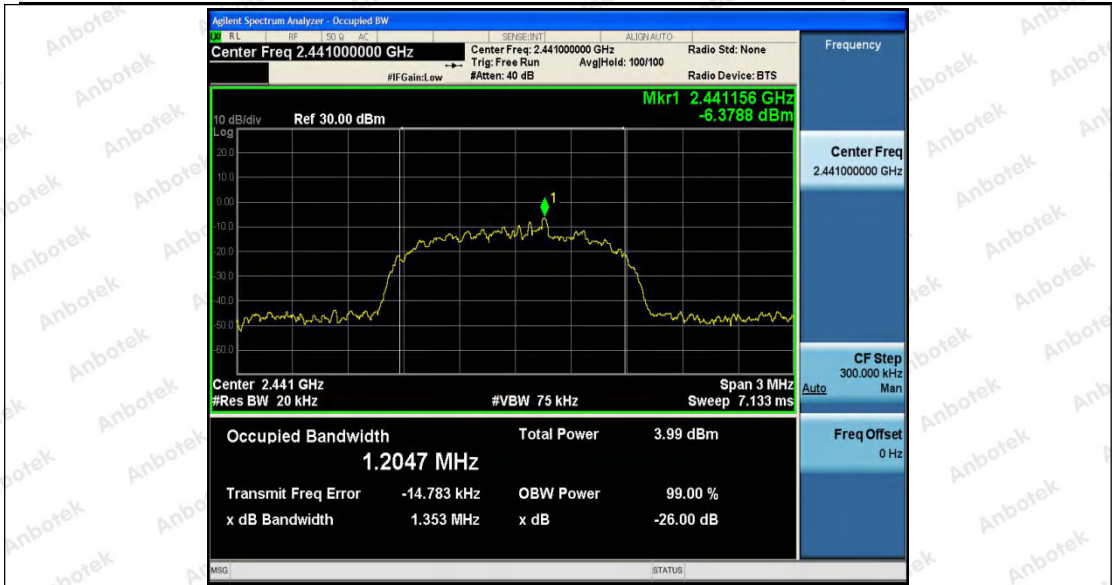


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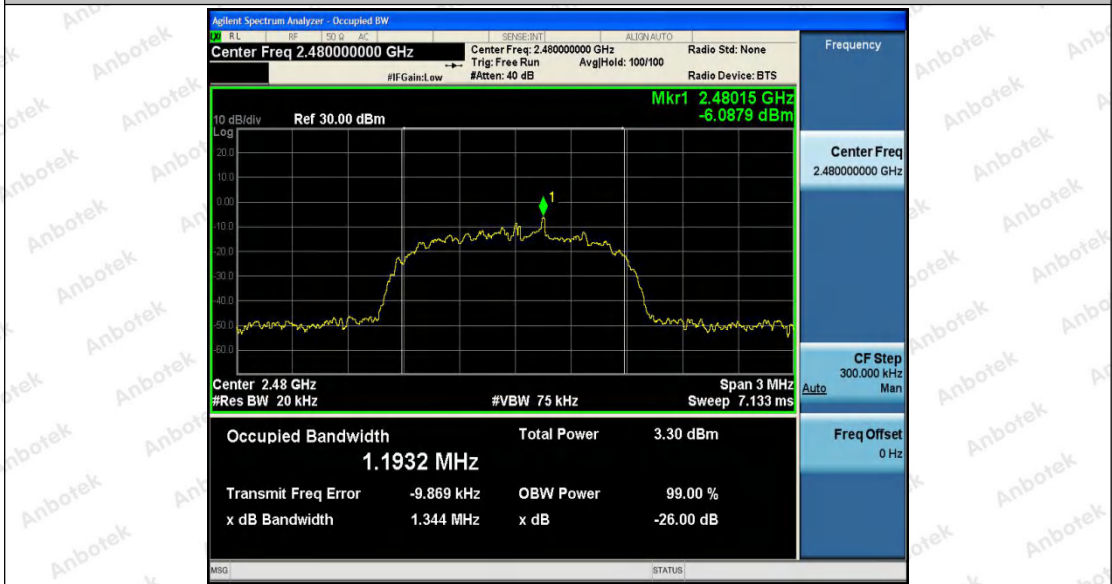
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3DH5_Ant1_2480



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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-2.31	≤20.97	PASS
		2441	-1.36	≤20.97	PASS
		2480	-2.06	≤20.97	PASS
2DH5	Ant1	2402	-2.35	≤20.97	PASS
		2441	-1.08	≤20.97	PASS
		2480	-1.42	≤20.97	PASS
3DH5	Ant1	2402	-1.38	≤20.97	PASS
		2441	-0.9	≤20.97	PASS
		2480	-1.42	≤20.97	PASS

Test Graphs



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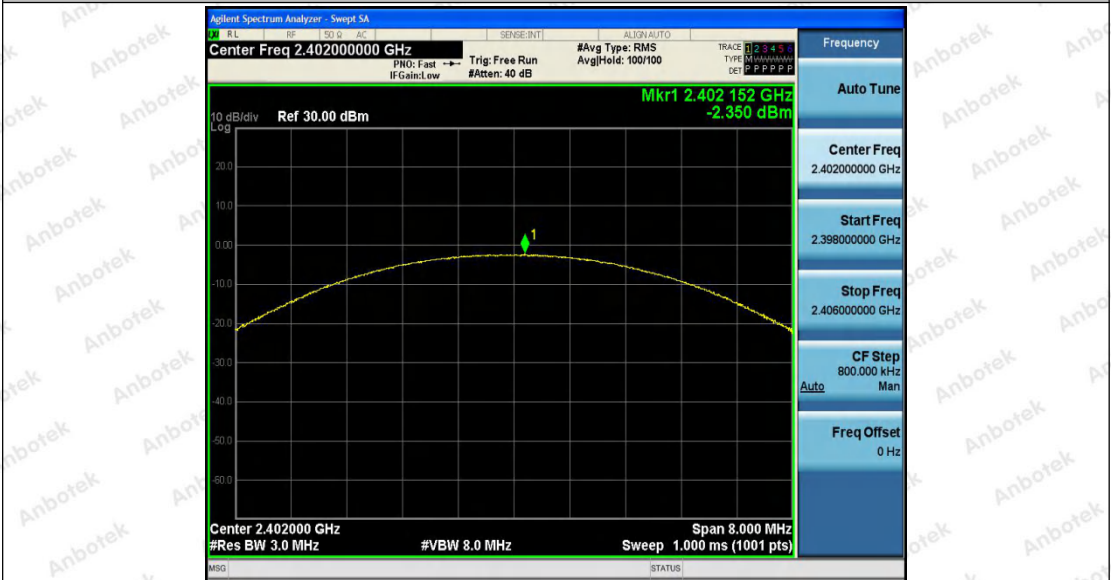
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2DH5_Ant1_2402



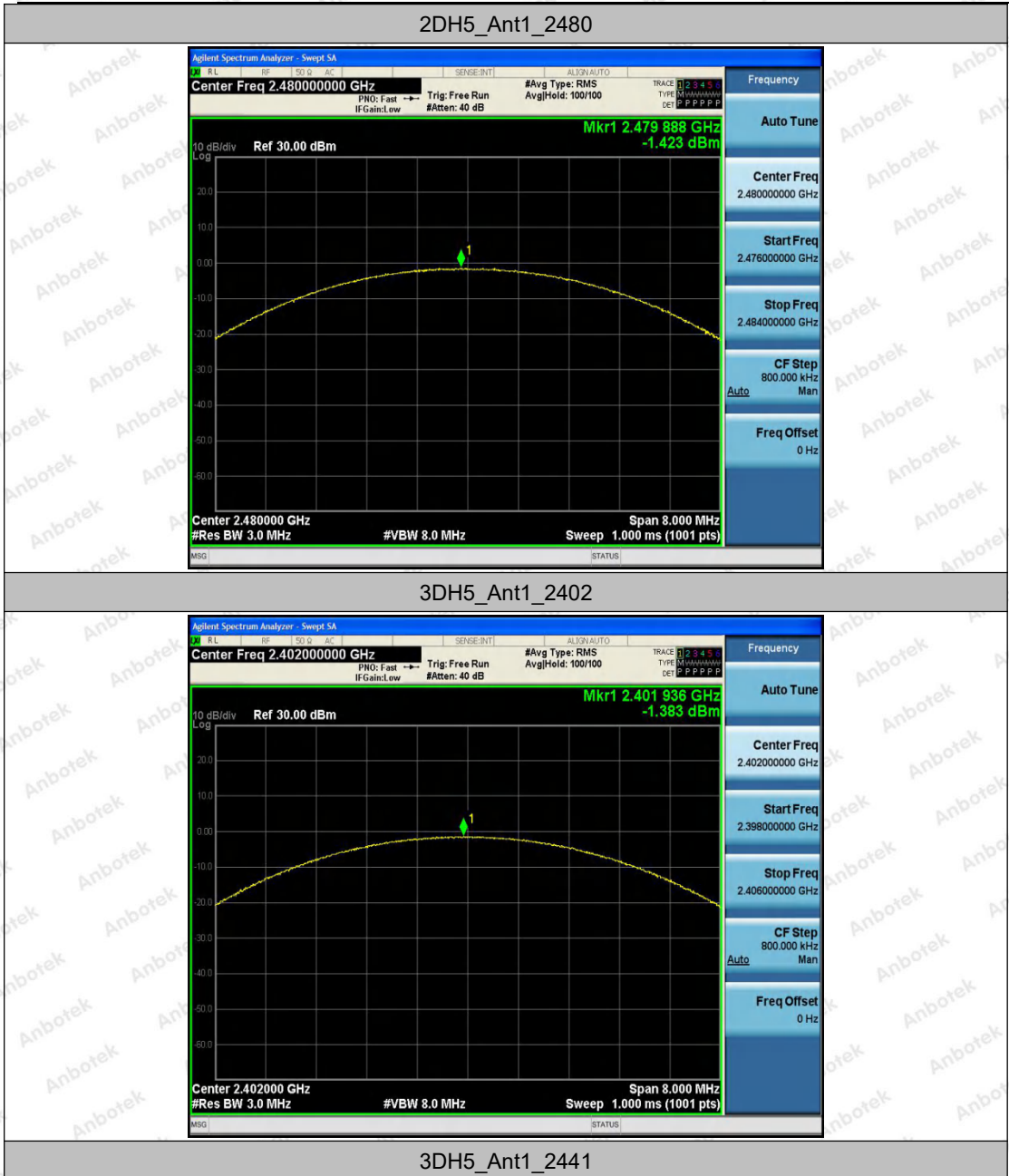
2DH5_Ant1_2441



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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	1.16	≥ 1.137	PASS
2DH5	Ant1	Hop	1.112	≥ 0.912	PASS
3DH5	Ant1	Hop	1.182	≥ 0.914	PASS

Test Graphs

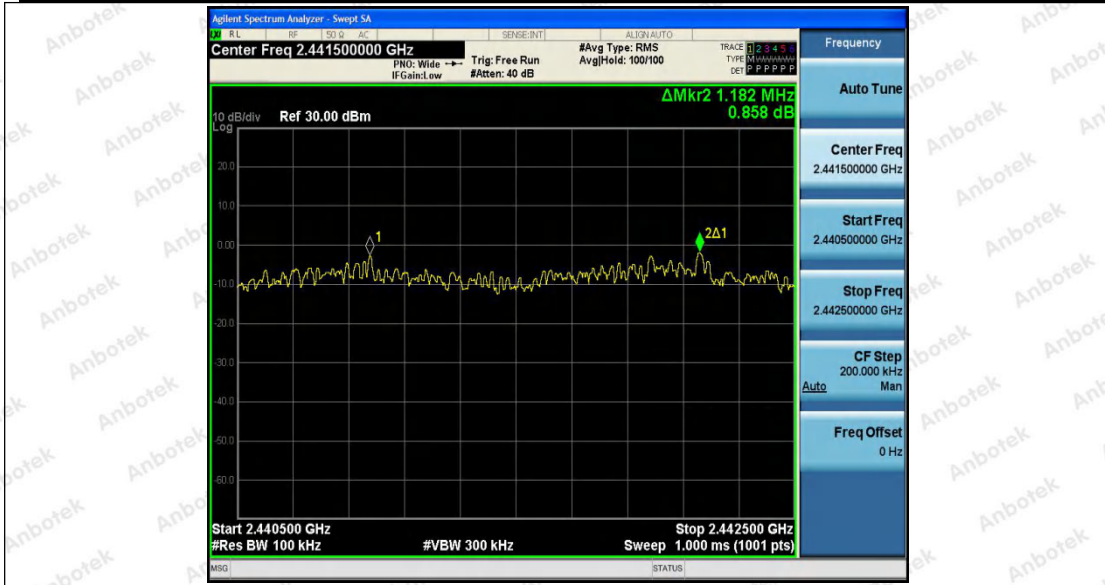


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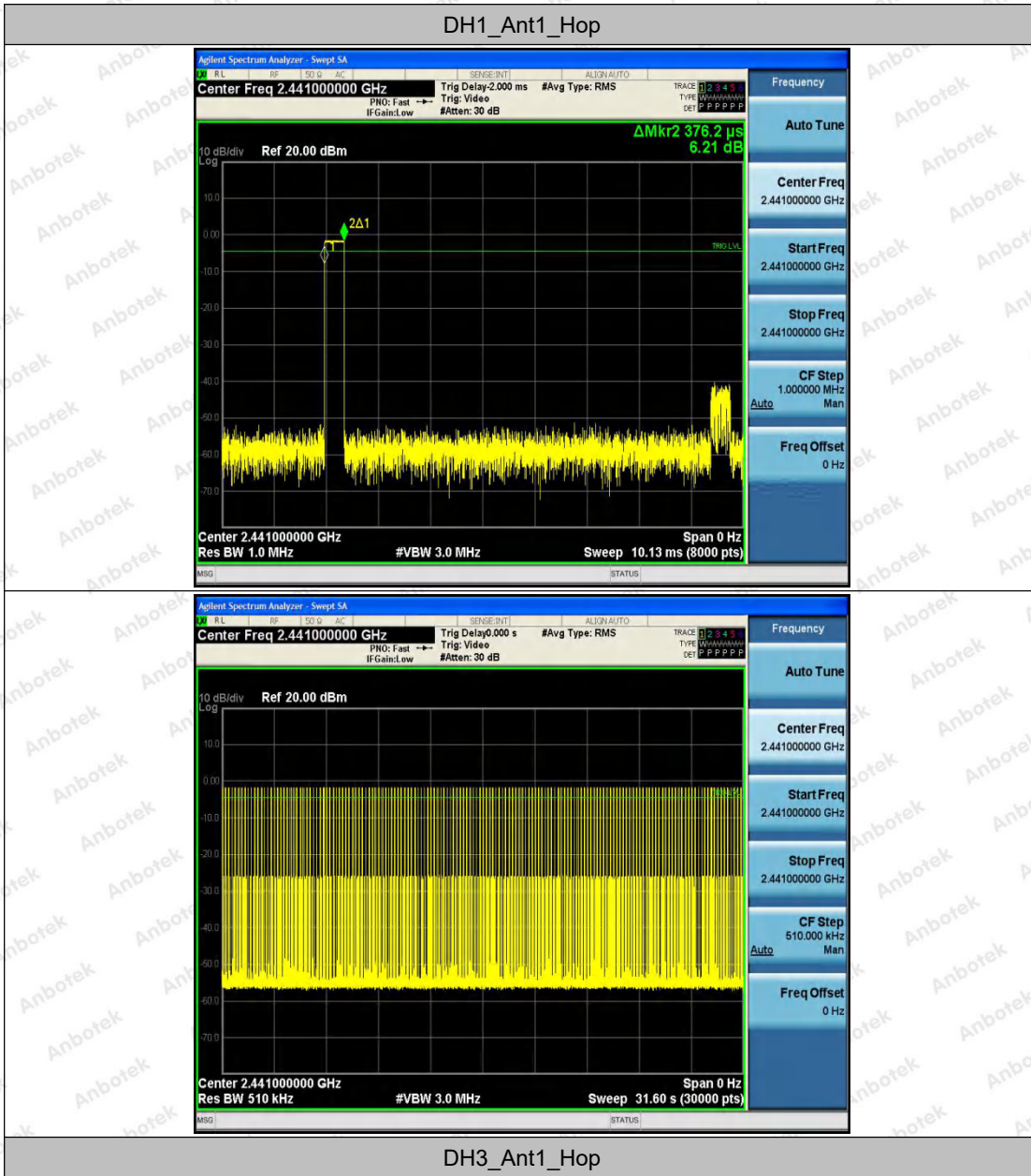
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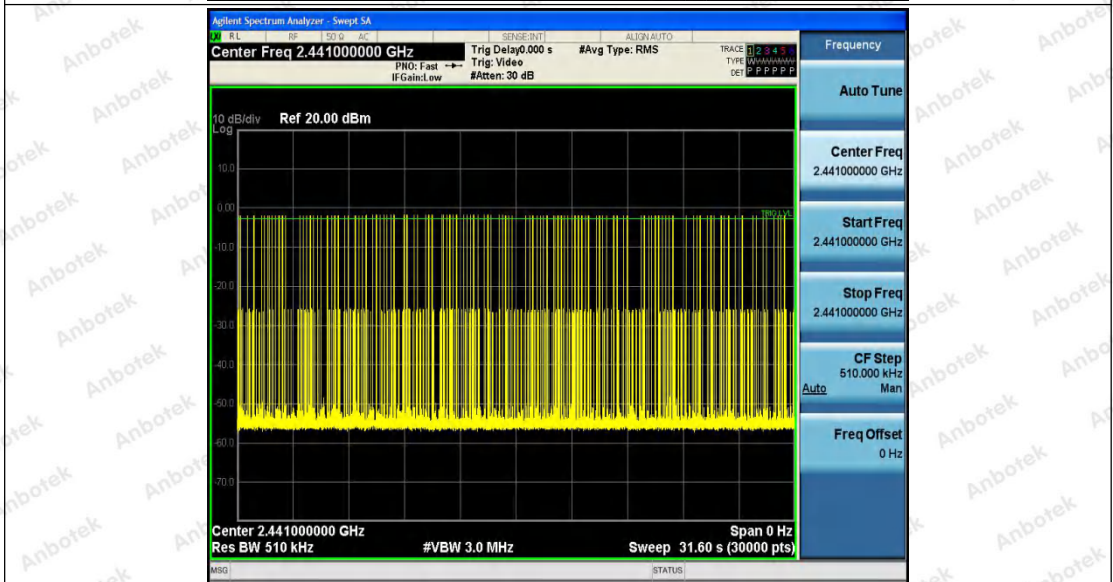
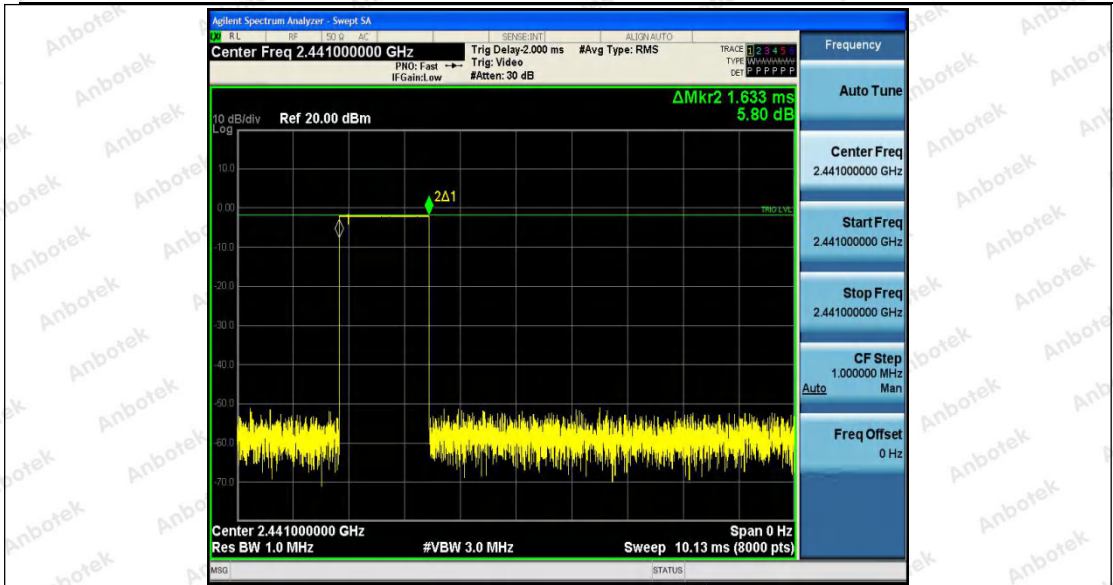
Appendix E: Time of occupancy

Test Result

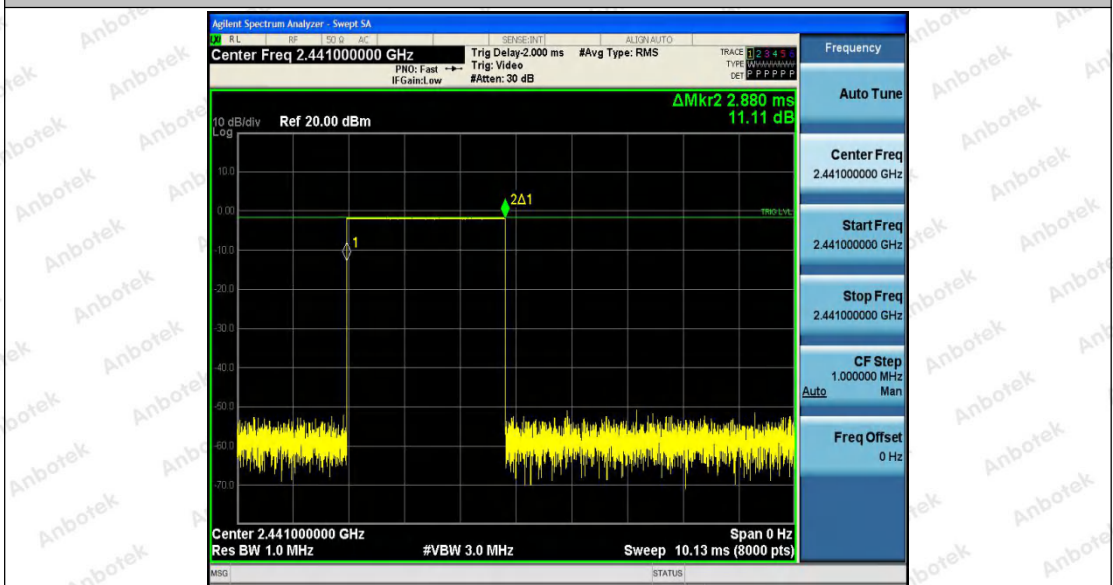
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	310	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	156	0.255	≤0.4	PASS
DH5	Ant1	Hop	2.88	102	0.294	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.12	≤0.4	PASS
2DH3	Ant1	Hop	1.64	162	0.265	≤0.4	PASS
2DH5	Ant1	Hop	2.88	109	0.314	≤0.4	PASS
3DH1	Ant1	Hop	0.38	314	0.121	≤0.4	PASS
3DH3	Ant1	Hop	1.63	157	0.257	≤0.4	PASS
3DH5	Ant1	Hop	2.89	103	0.297	≤0.4	PASS

Test Graphs





DH5_Ant1_Hop

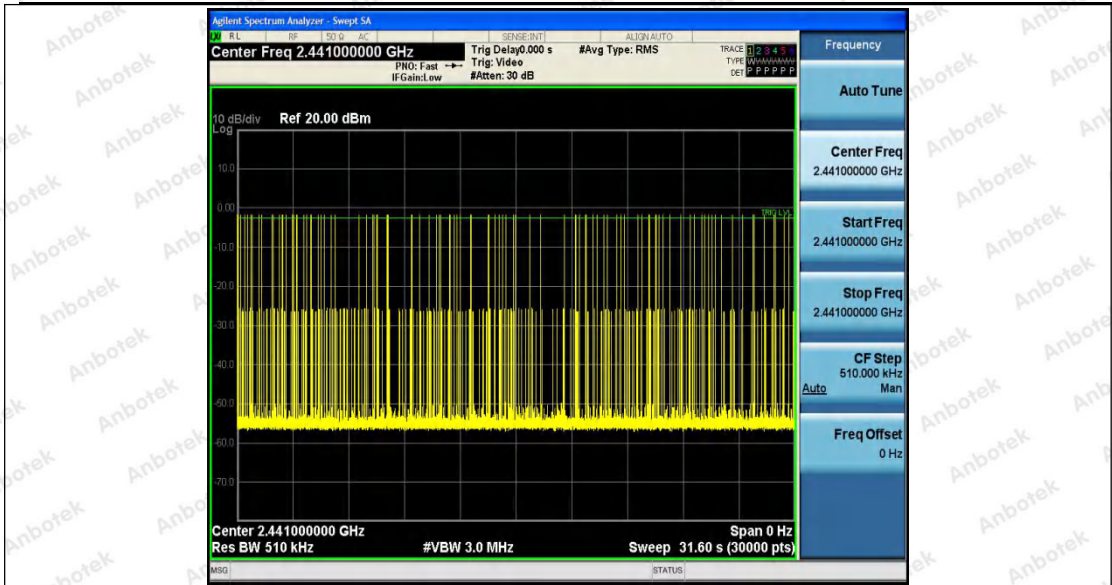


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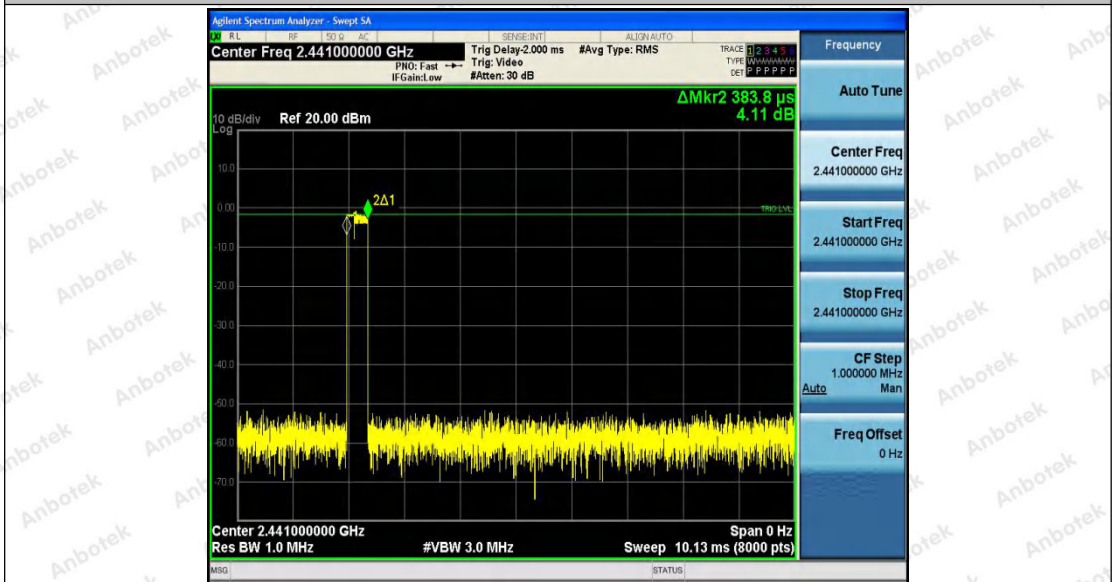
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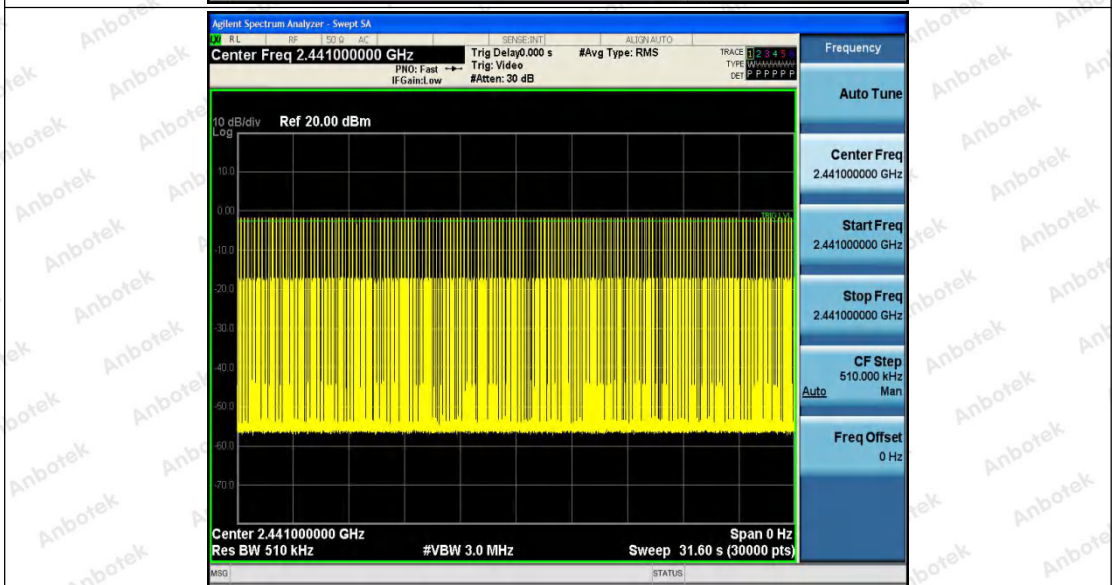
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2DH1_Ant1_Hop



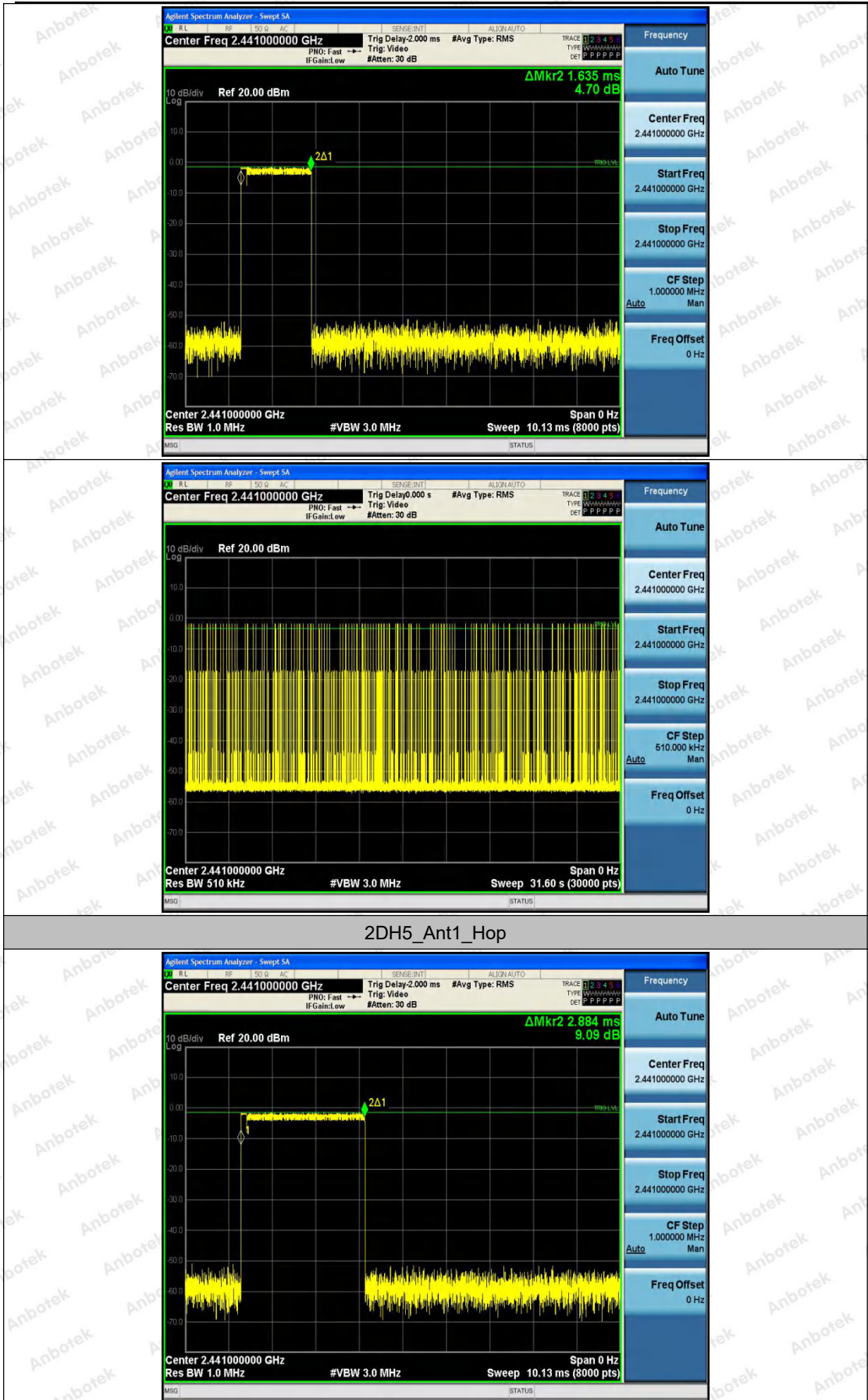
2DH3_Ant1_Hop



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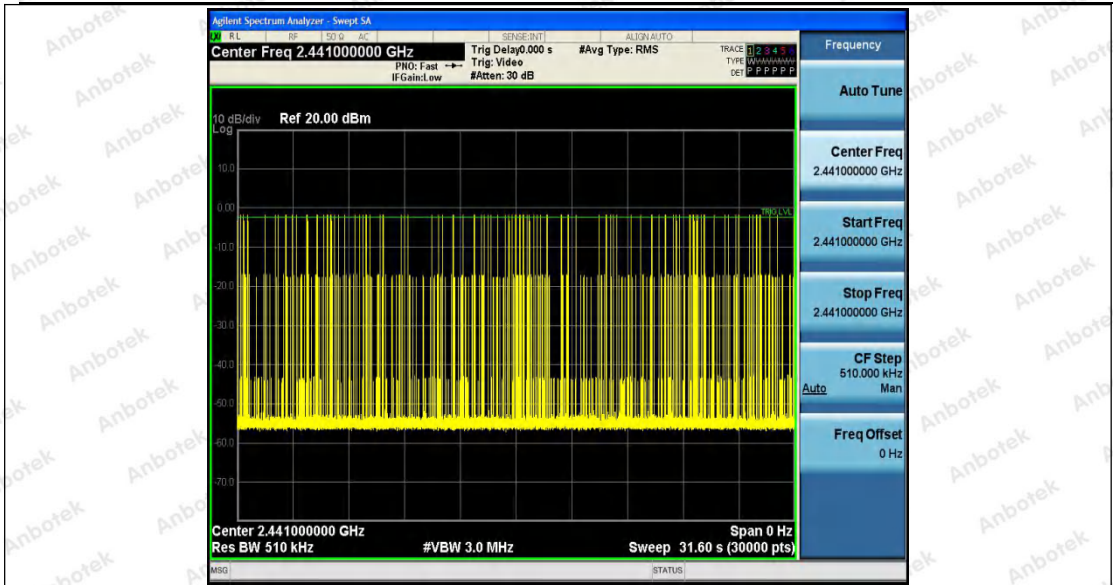


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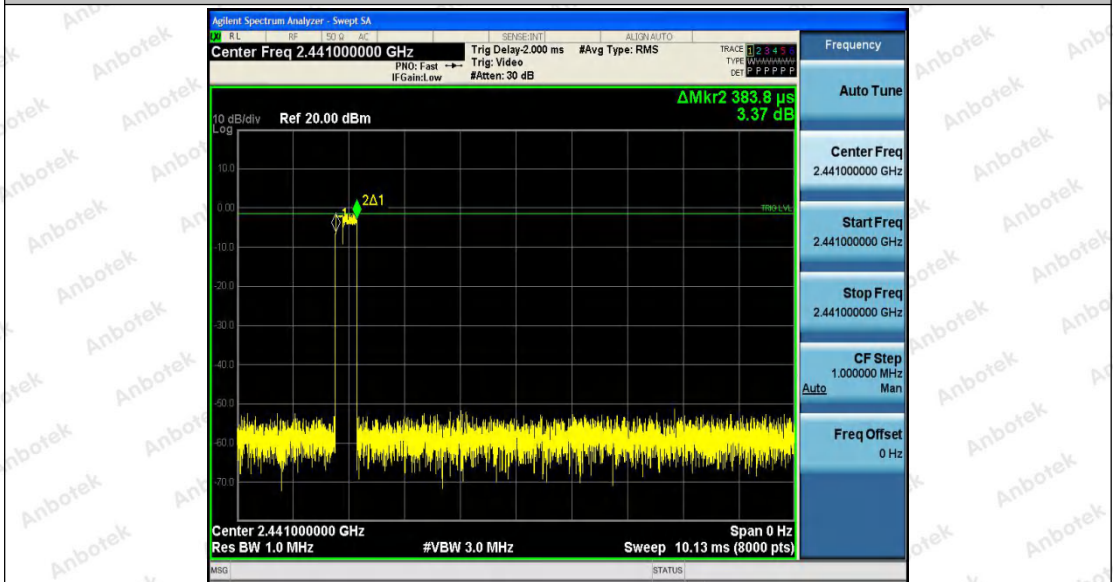
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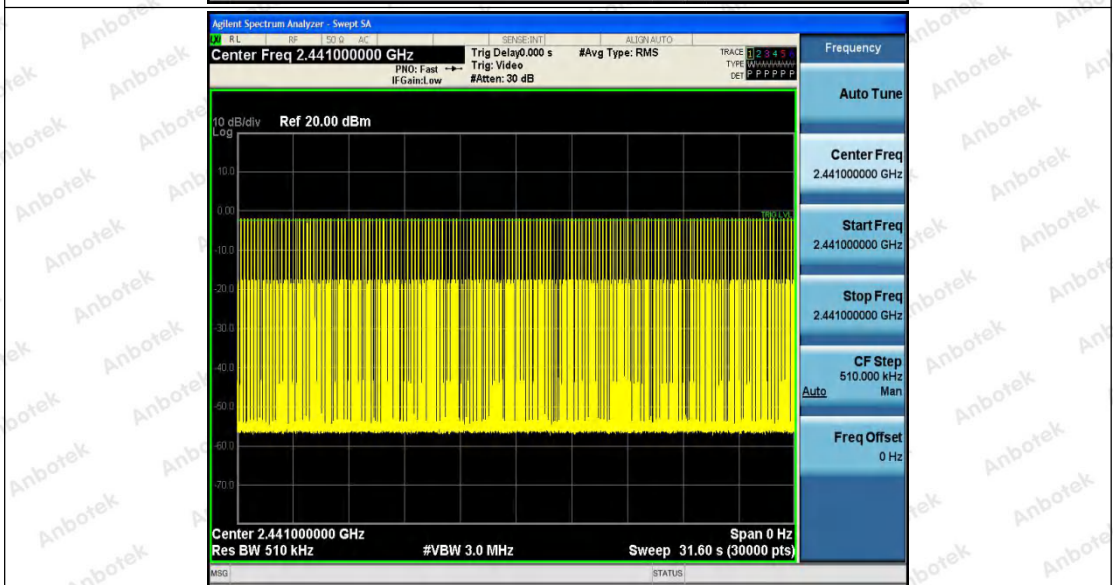
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3DH1_Ant1_Hop



3DH3_Ant1_Hop

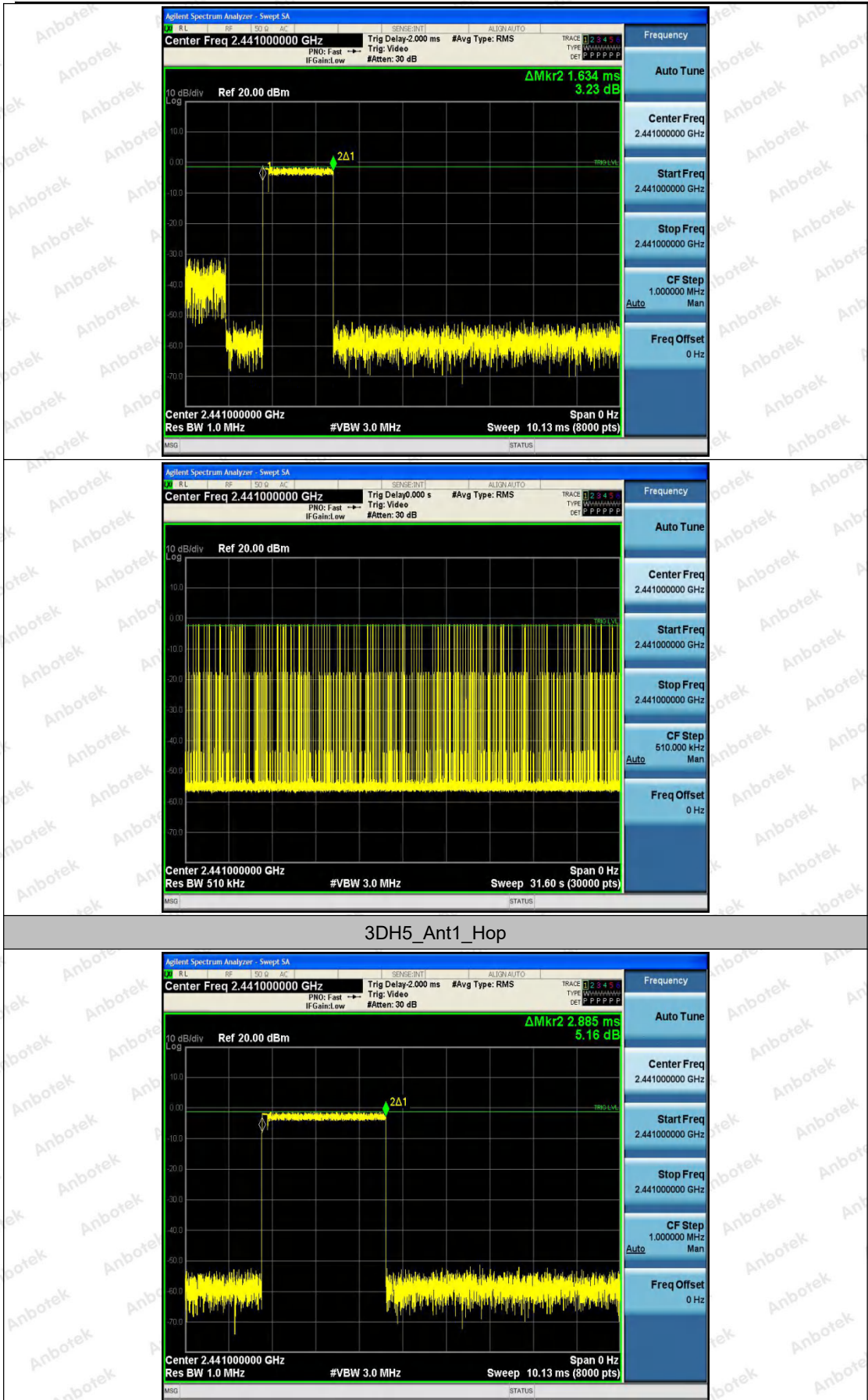


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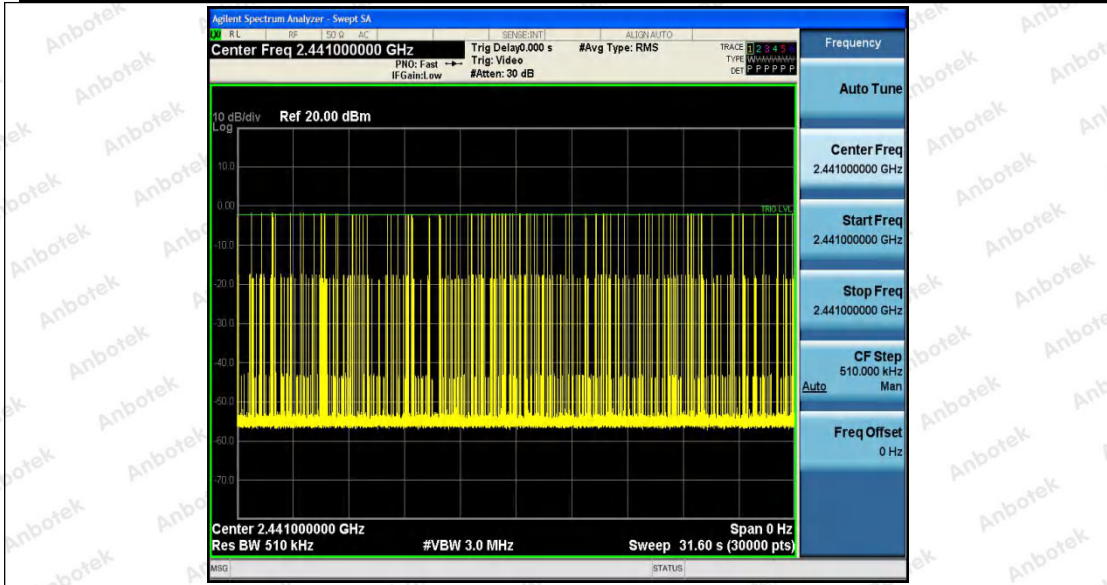
3DH5_Ant1_Hop

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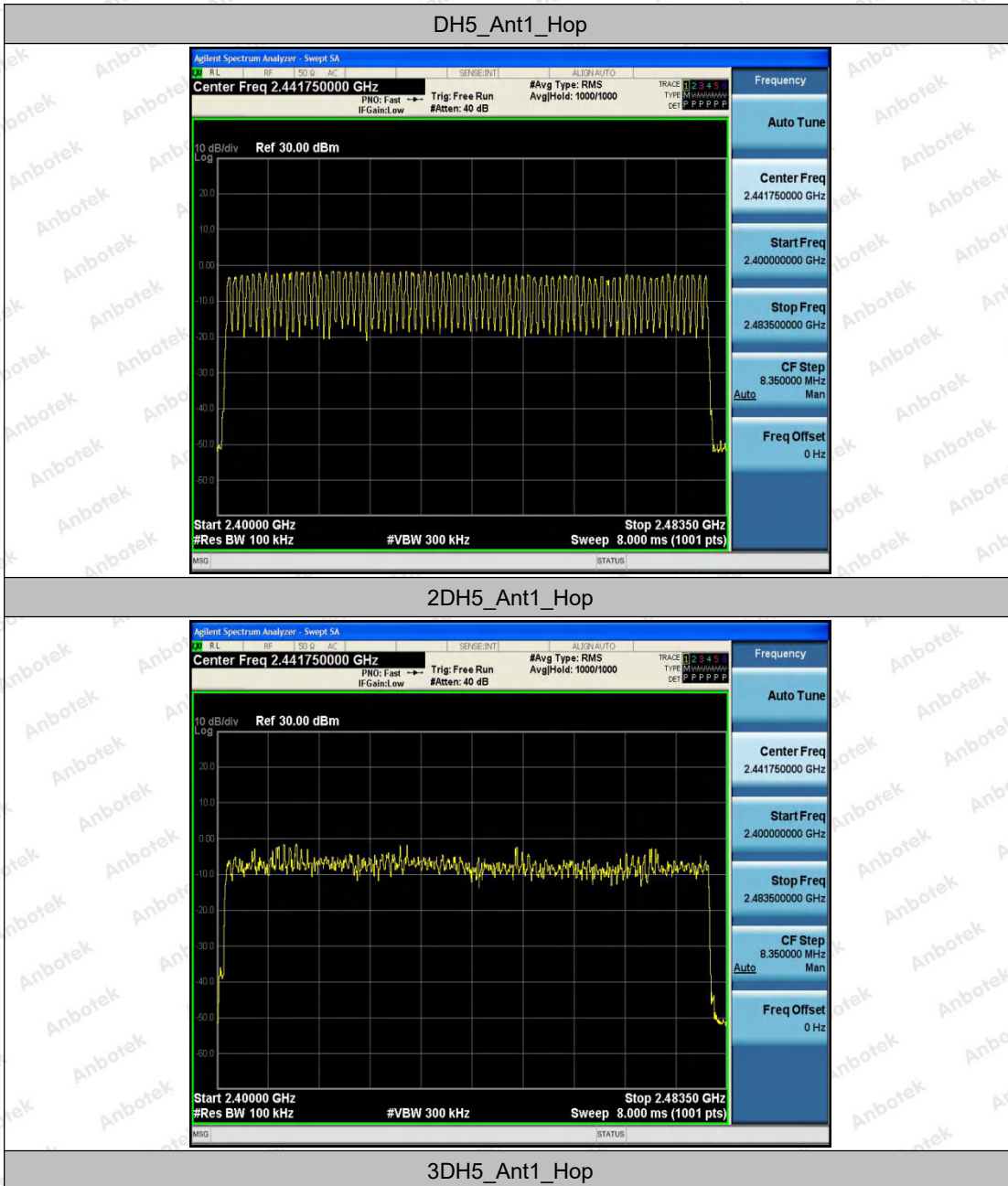
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Appendix F: Number of hopping channels

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

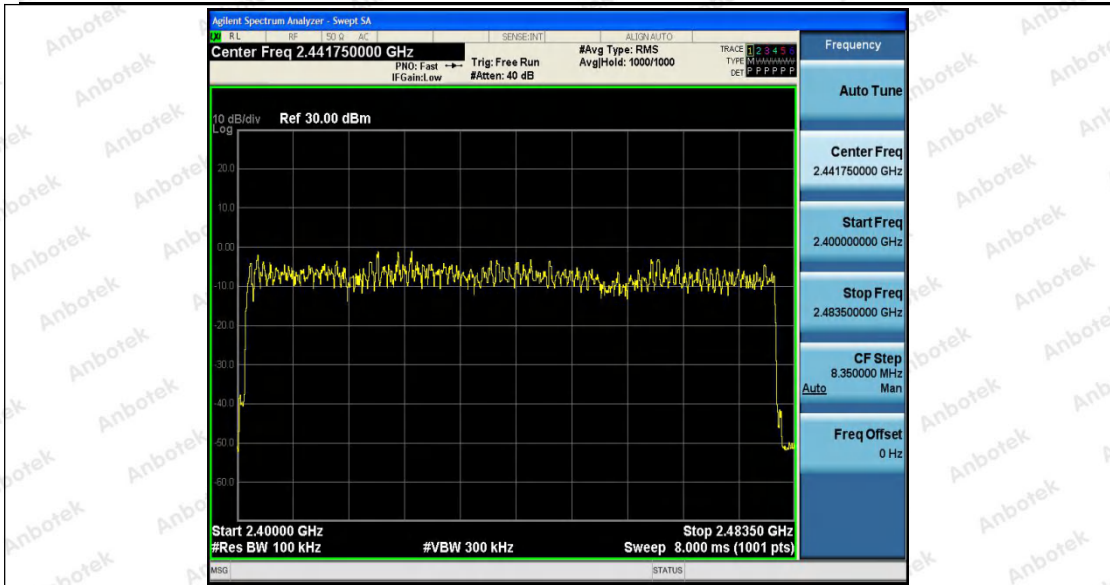


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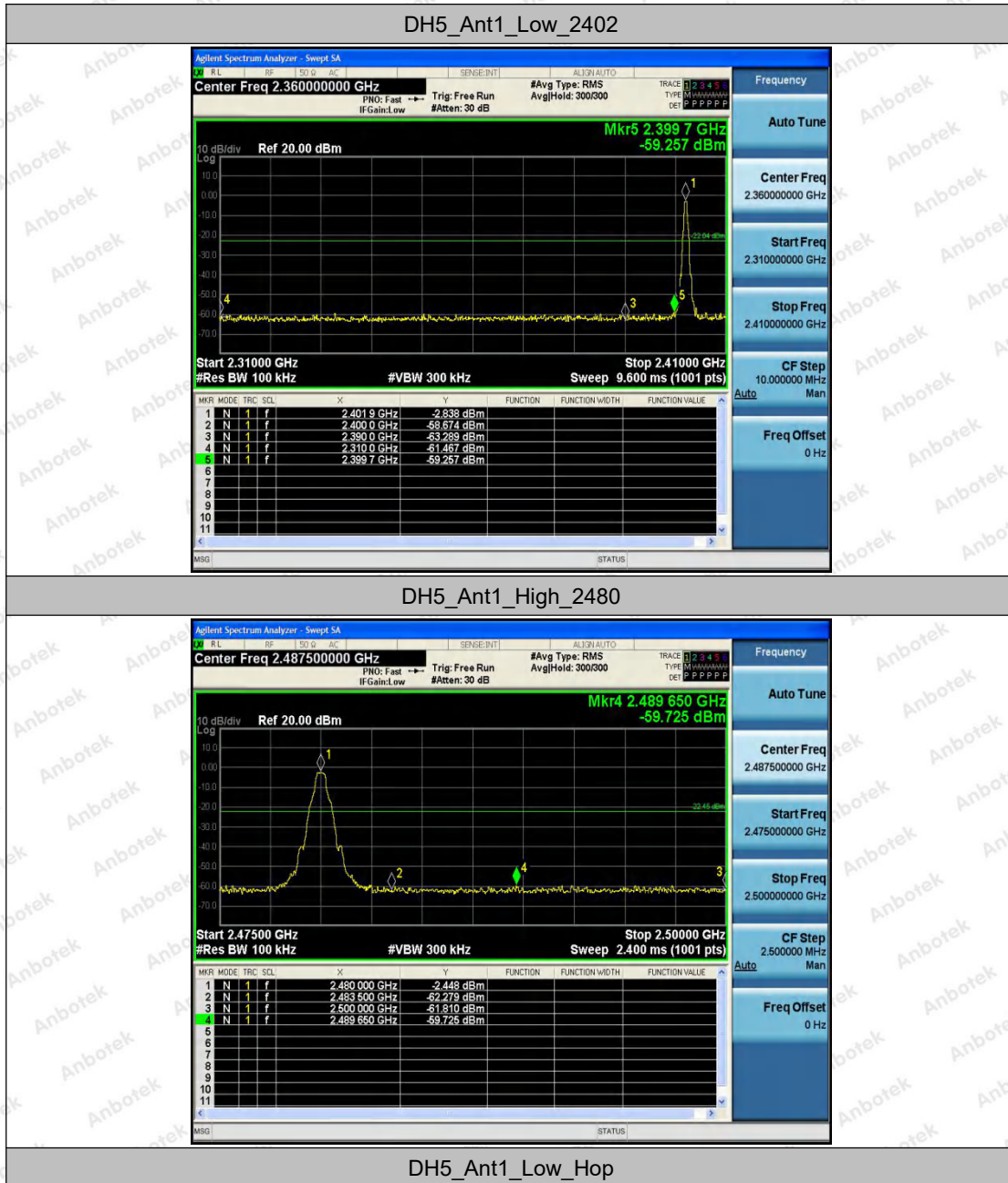
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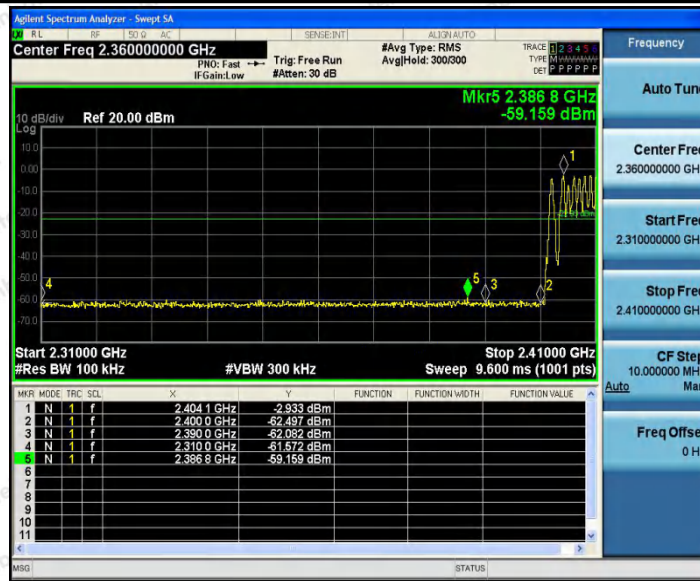
Appendix G: Band edge measurements

Test Result

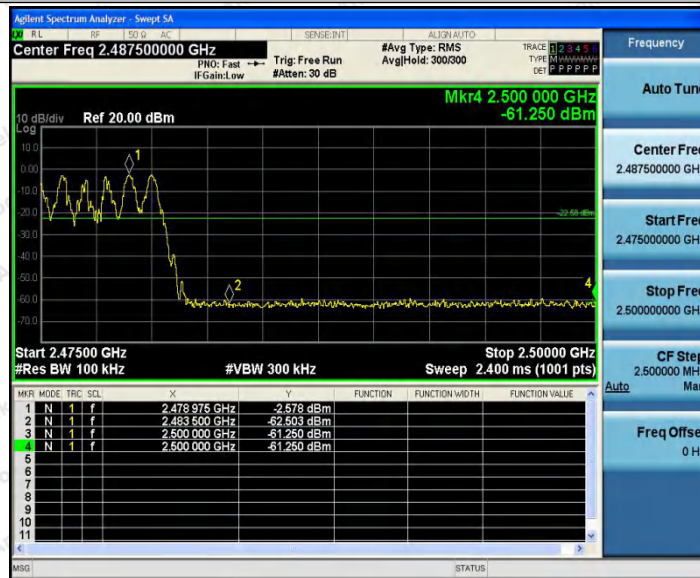
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-2.84	-59.26	≤-22.84	PASS
		High	2480	-2.45	-59.73	≤-22.45	PASS
		Low	Hop	-2.93	-59.16	≤-22.93	PASS
		High	Hop	-2.58	-61.25	≤-22.58	PASS
2DH5	Ant1	Low	2402	-4.04	-57.72	≤-24.04	PASS
		High	2480	-2.85	-59.31	≤-22.85	PASS
		Low	Hop	-5.40	-59.34	≤-25.4	PASS
		High	Hop	-6.10	-62.07	≤-26.1	PASS
3DH5	Ant1	Low	2402	-2.65	-56.98	≤-22.65	PASS
		High	2480	-2.71	-59	≤-22.71	PASS
		Low	Hop	-4.09	-60.05	≤-24.09	PASS
		High	Hop	-5.30	-62.8	≤-25.3	PASS

Test Graphs

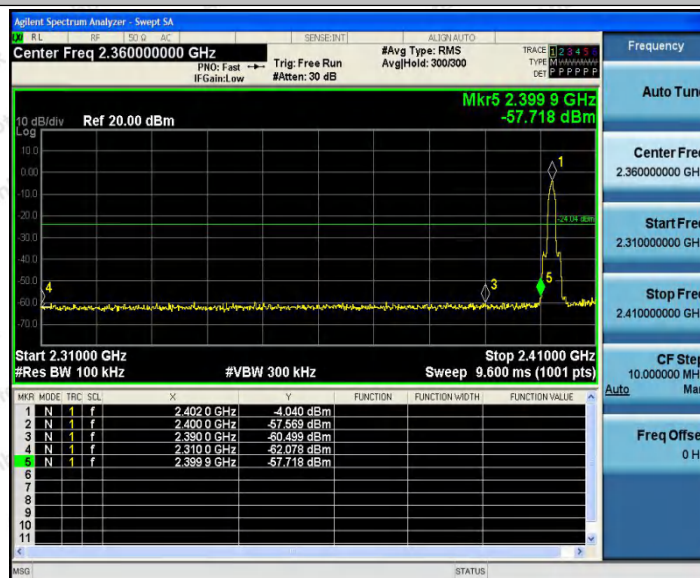




DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402

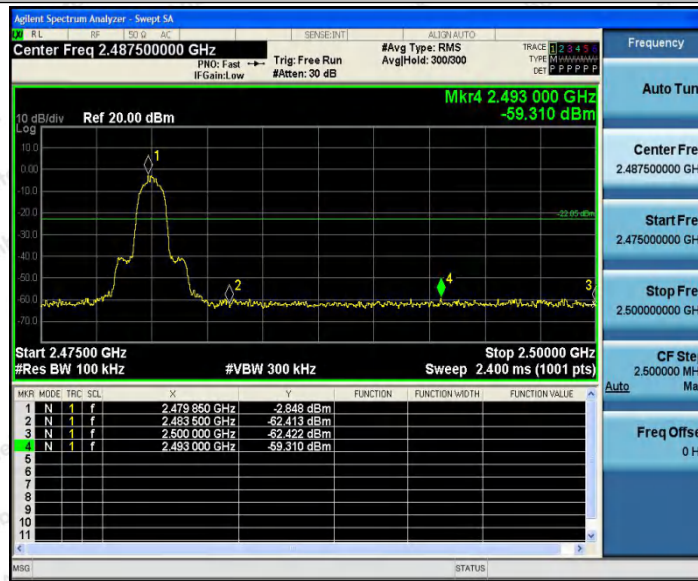


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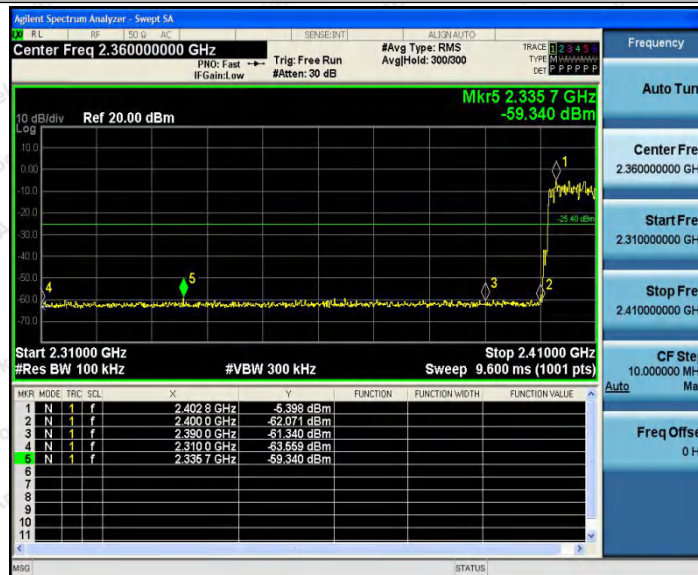
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



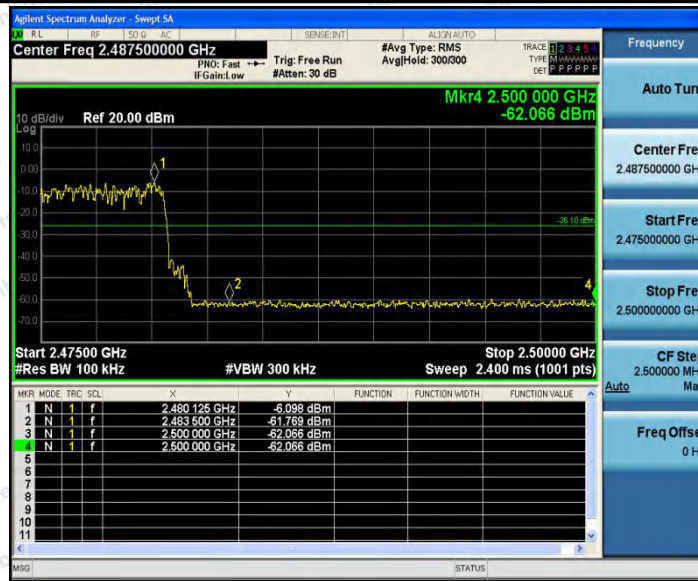
2DH5_Ant1_High_Hop

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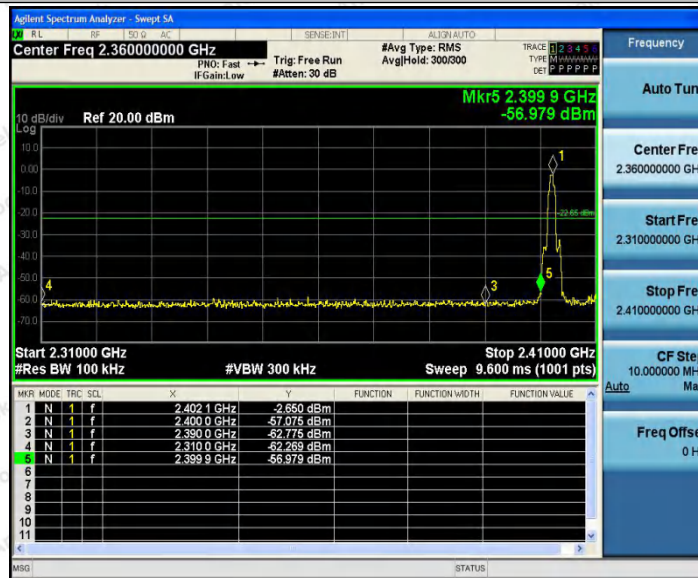
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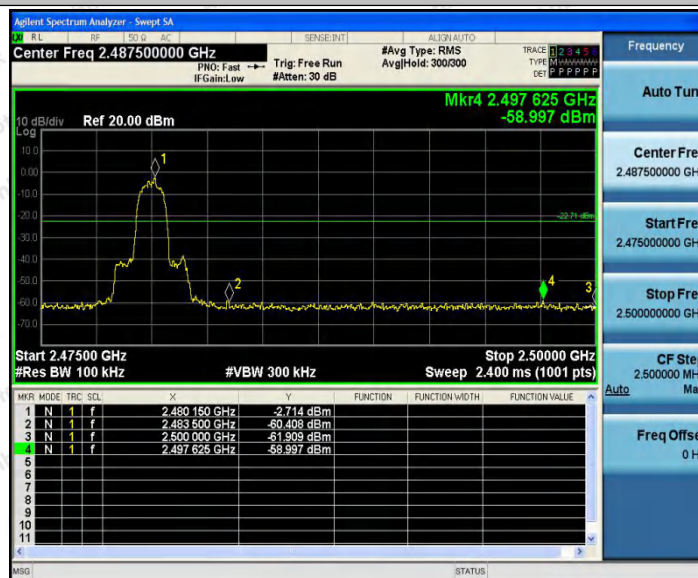
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



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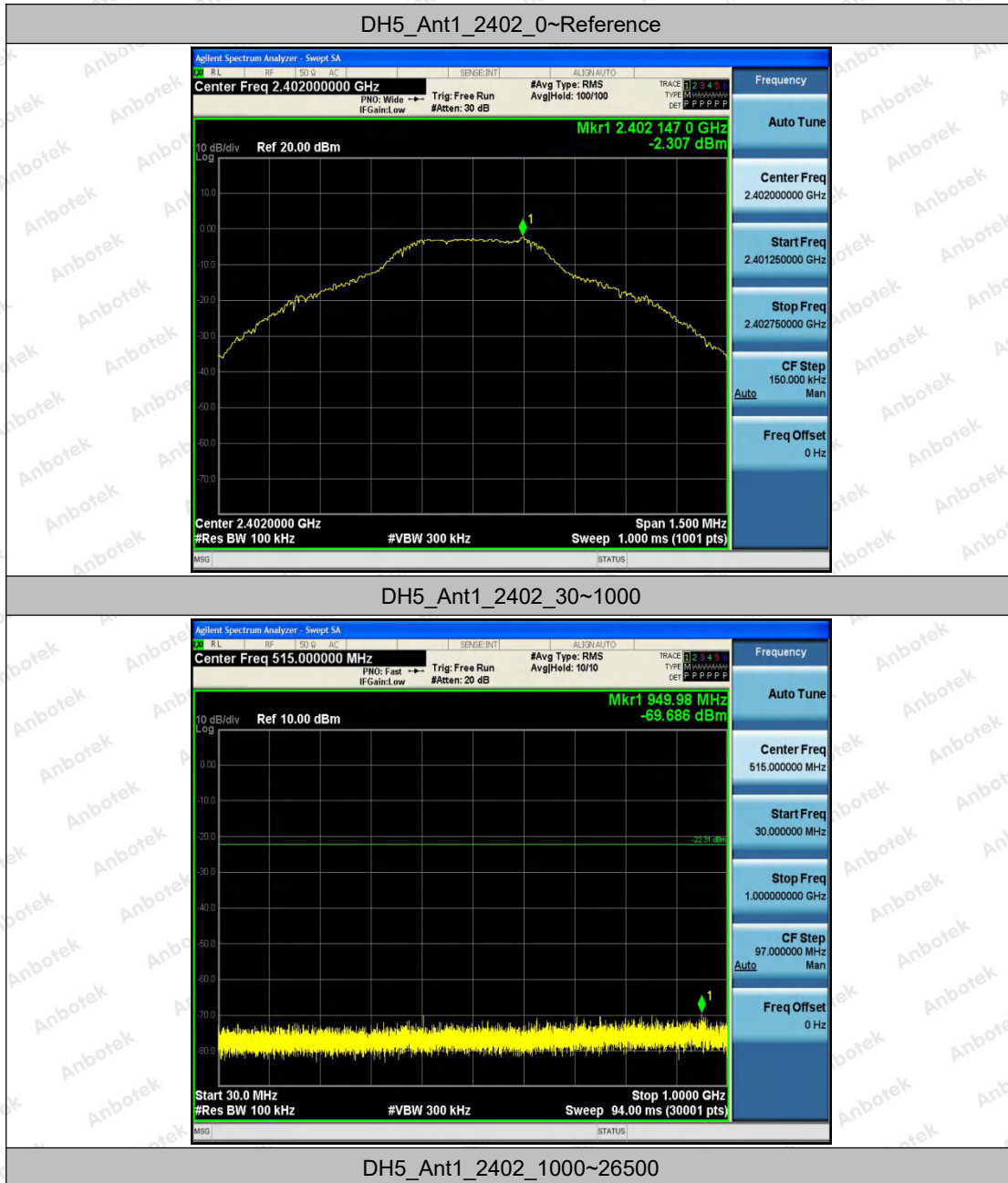
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Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-2.31	-2.31	---	PASS
			30~1000	-2.31	-69.69	≤-22.31	PASS
			1000~26500	-2.31	-40.64	≤-22.31	PASS
		2441	Reference	-2.25	-2.25	---	PASS
			30~1000	-2.25	-69.57	≤-22.25	PASS
			1000~26500	-2.25	-47.25	≤-22.25	PASS
		2480	Reference	-2.67	-2.67	---	PASS
			30~1000	-2.67	-67.4	≤-22.67	PASS
			1000~26500	-2.67	-49.56	≤-22.67	PASS
2DH5	Ant1	2402	Reference	-3.56	-3.56	---	PASS
			30~1000	-3.56	-69.63	≤-23.56	PASS
			1000~26500	-3.56	-48.52	≤-23.56	PASS
		2441	Reference	-2.65	-2.65	---	PASS
			30~1000	-2.65	-69.91	≤-22.65	PASS
			1000~26500	-2.65	-51.26	≤-22.65	PASS
		2480	Reference	-2.82	-2.82	---	PASS
			30~1000	-2.82	-69.94	≤-22.82	PASS
			1000~26500	-2.82	-53.84	≤-22.82	PASS
3DH5	Ant1	2402	Reference	-2.33	-2.33	---	PASS
			30~1000	-2.33	-69.73	≤-22.33	PASS
			1000~26500	-2.33	-45.06	≤-22.33	PASS
		2441	Reference	-2.04	-2.04	---	PASS
			30~1000	-2.04	-70.35	≤-22.04	PASS
			1000~26500	-2.04	-50.03	≤-22.04	PASS
		2480	Reference	-2.49	-2.49	---	PASS
			30~1000	-2.49	-69.68	≤-22.49	PASS
			1000~26500	-2.49	-52.74	≤-22.49	PASS

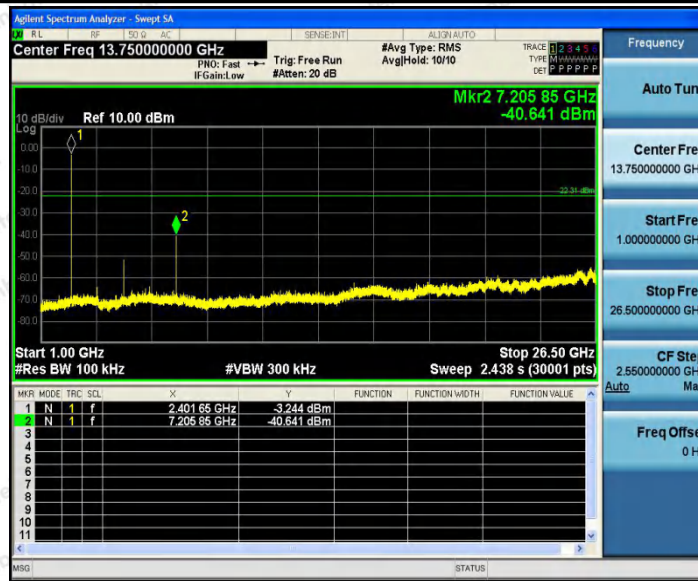
Test Graphs



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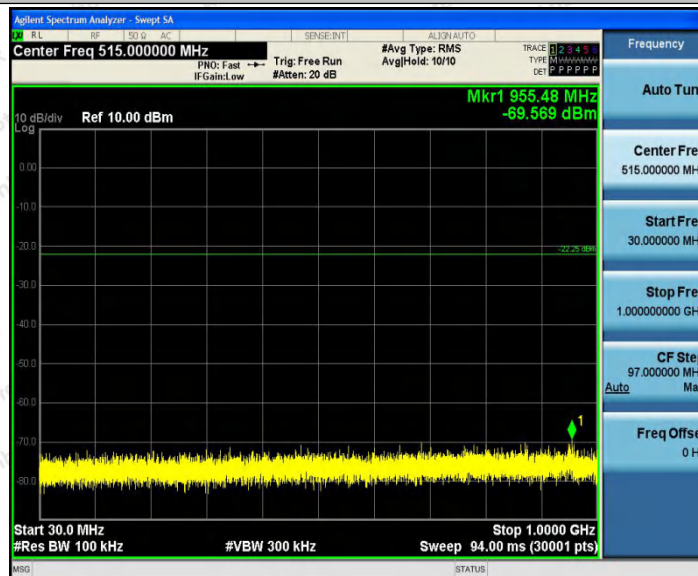
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

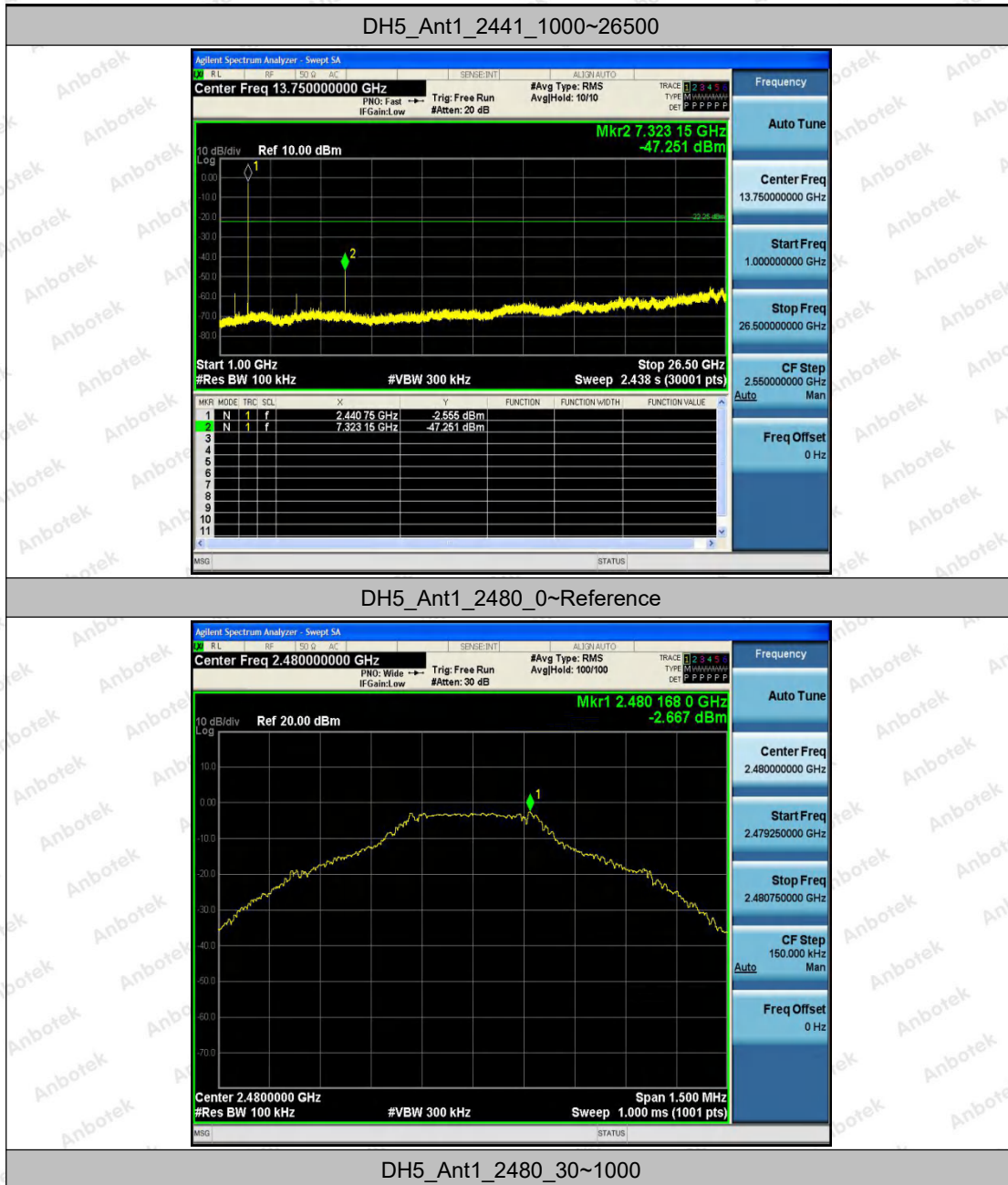


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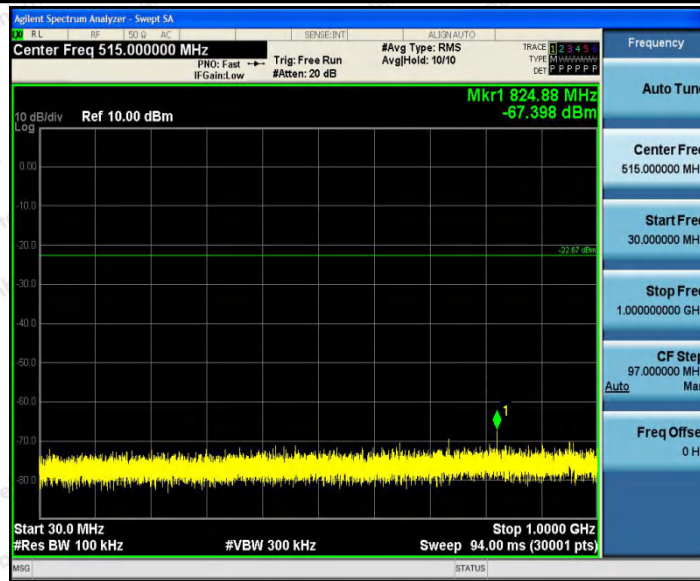


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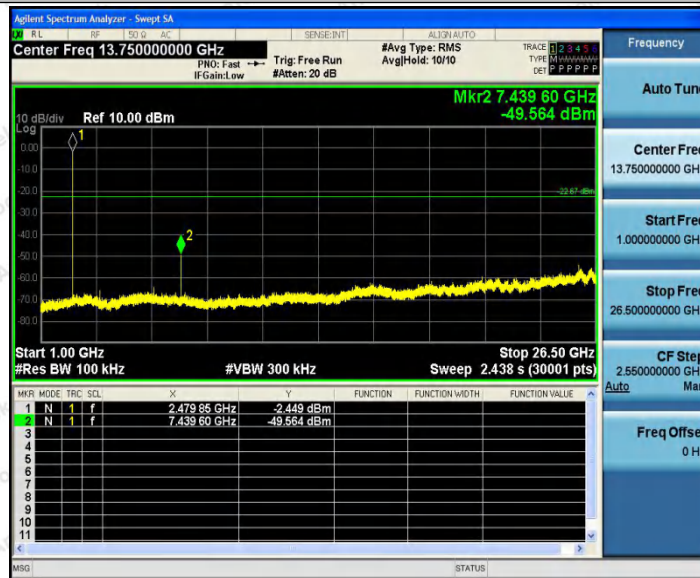
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

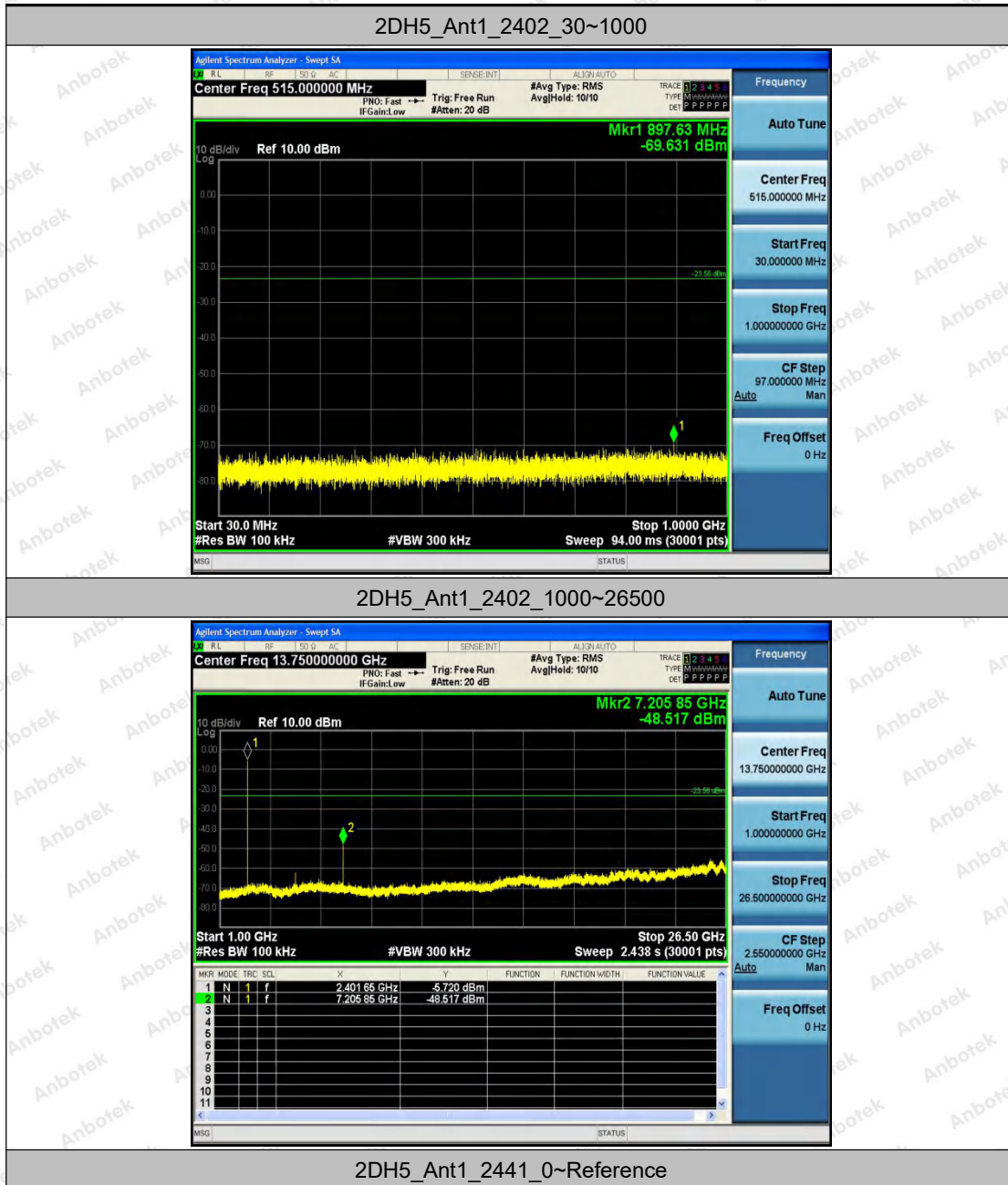


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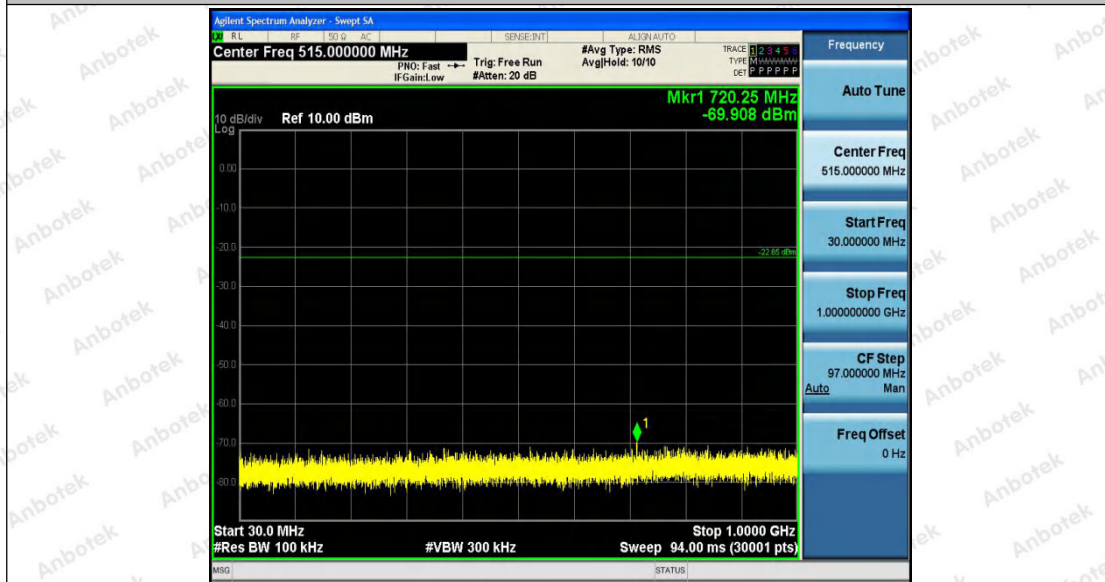
Shenzhen Anbotek Compliance Laboratory Limited

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 Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

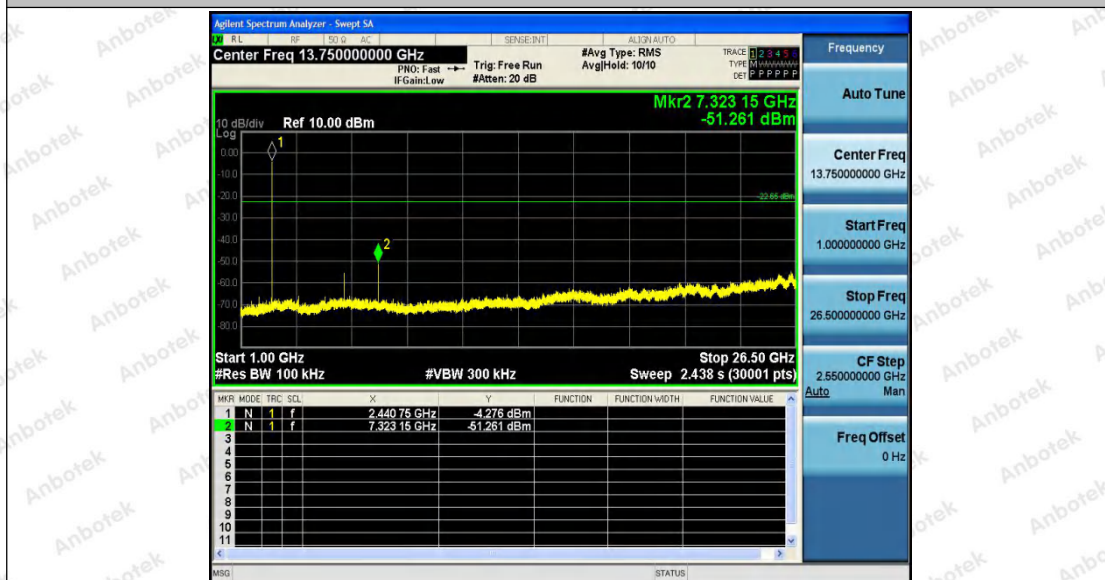
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

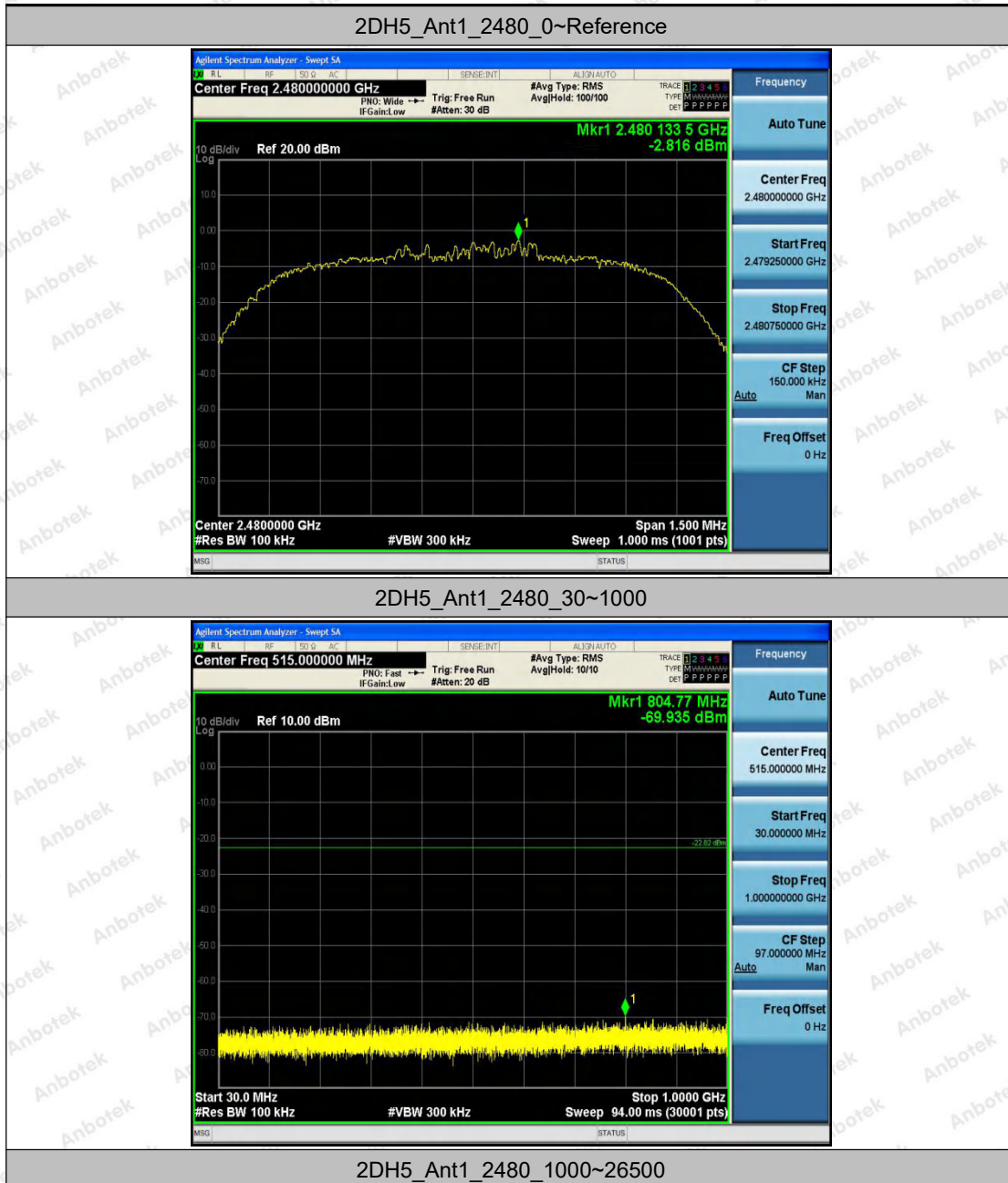


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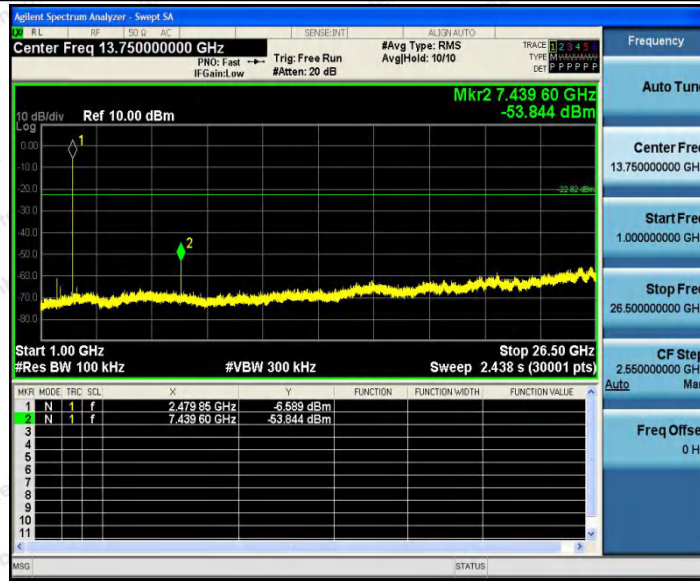
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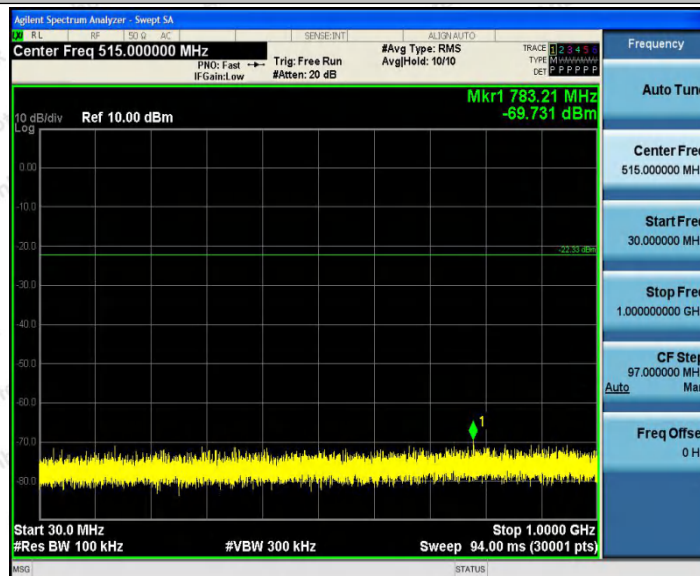
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3DH5_Ant1_2402_0~Reference



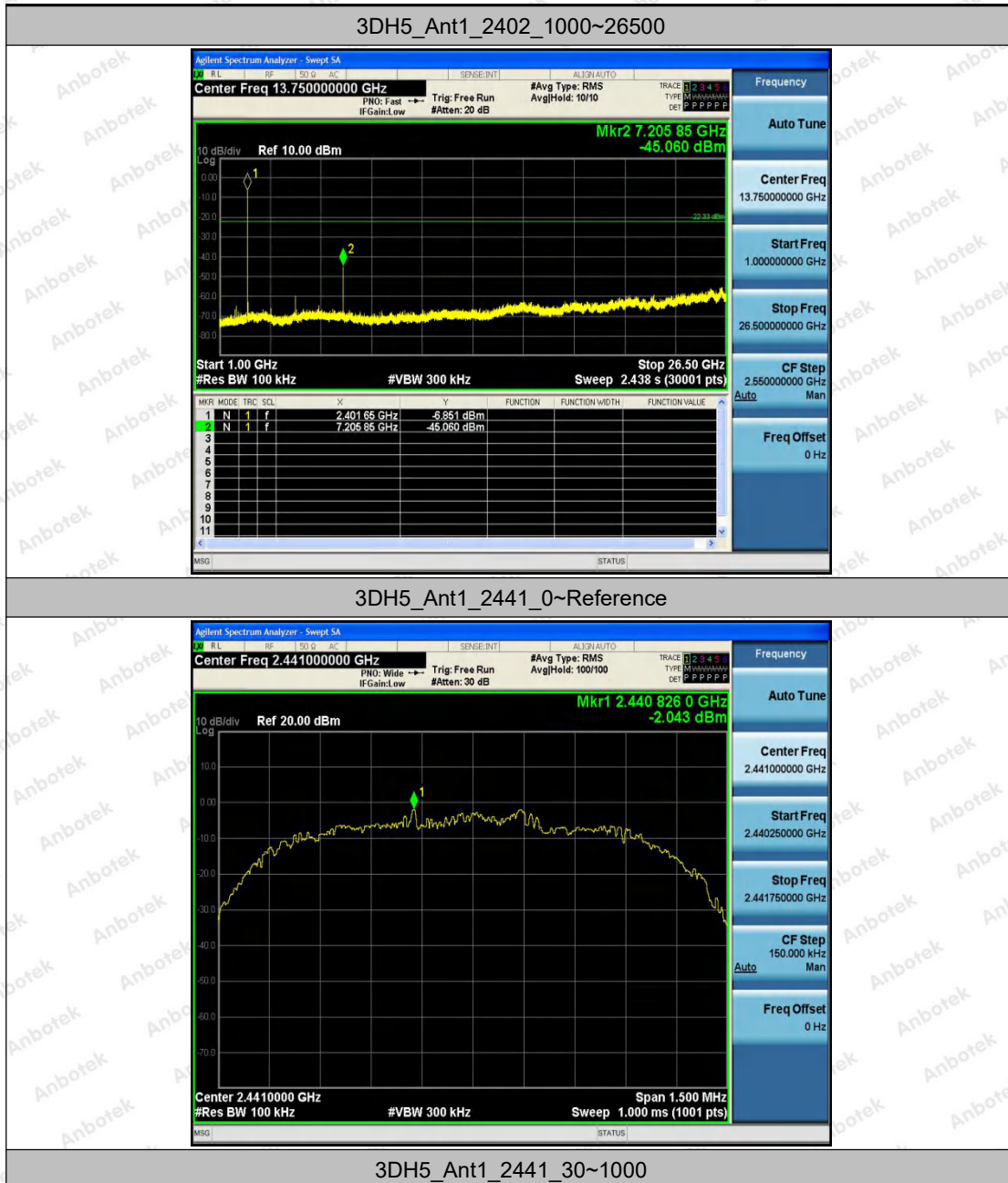
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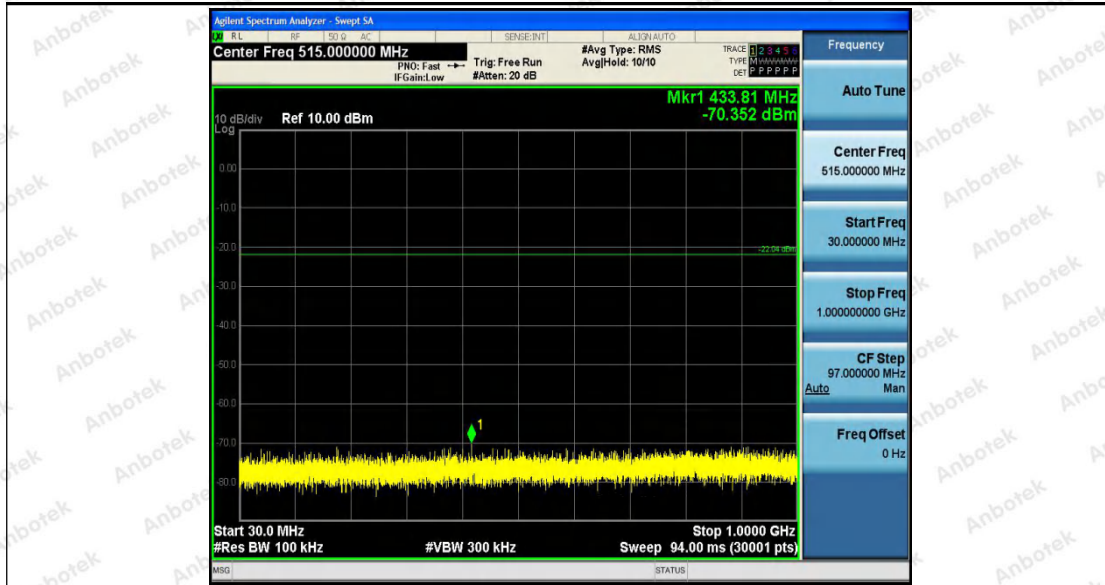


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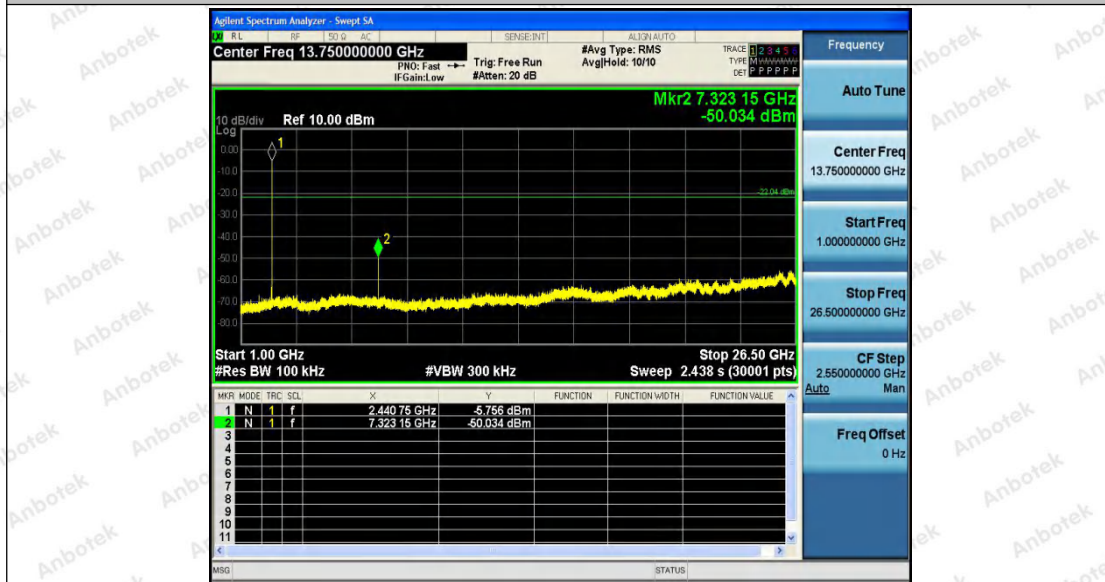
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

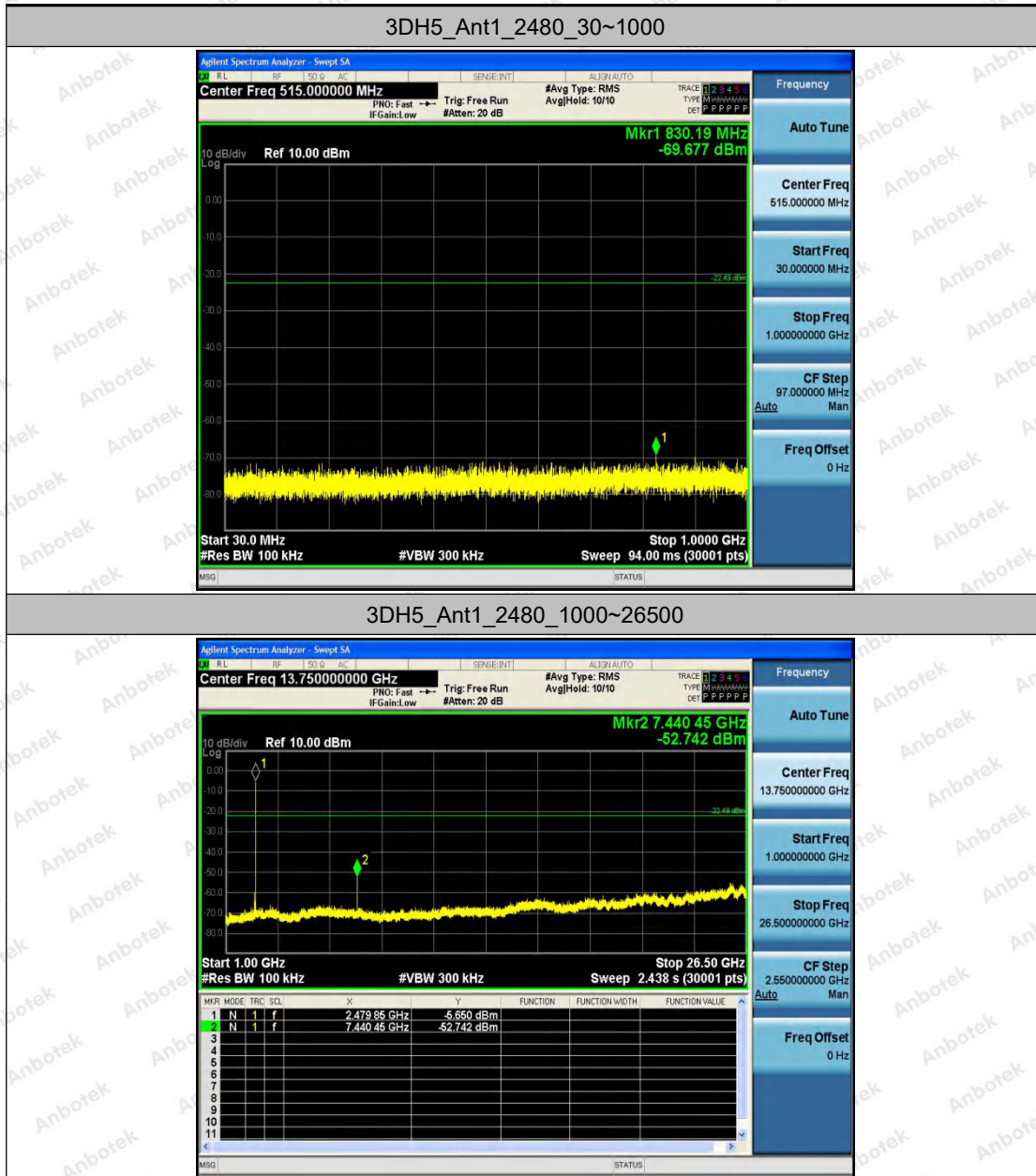


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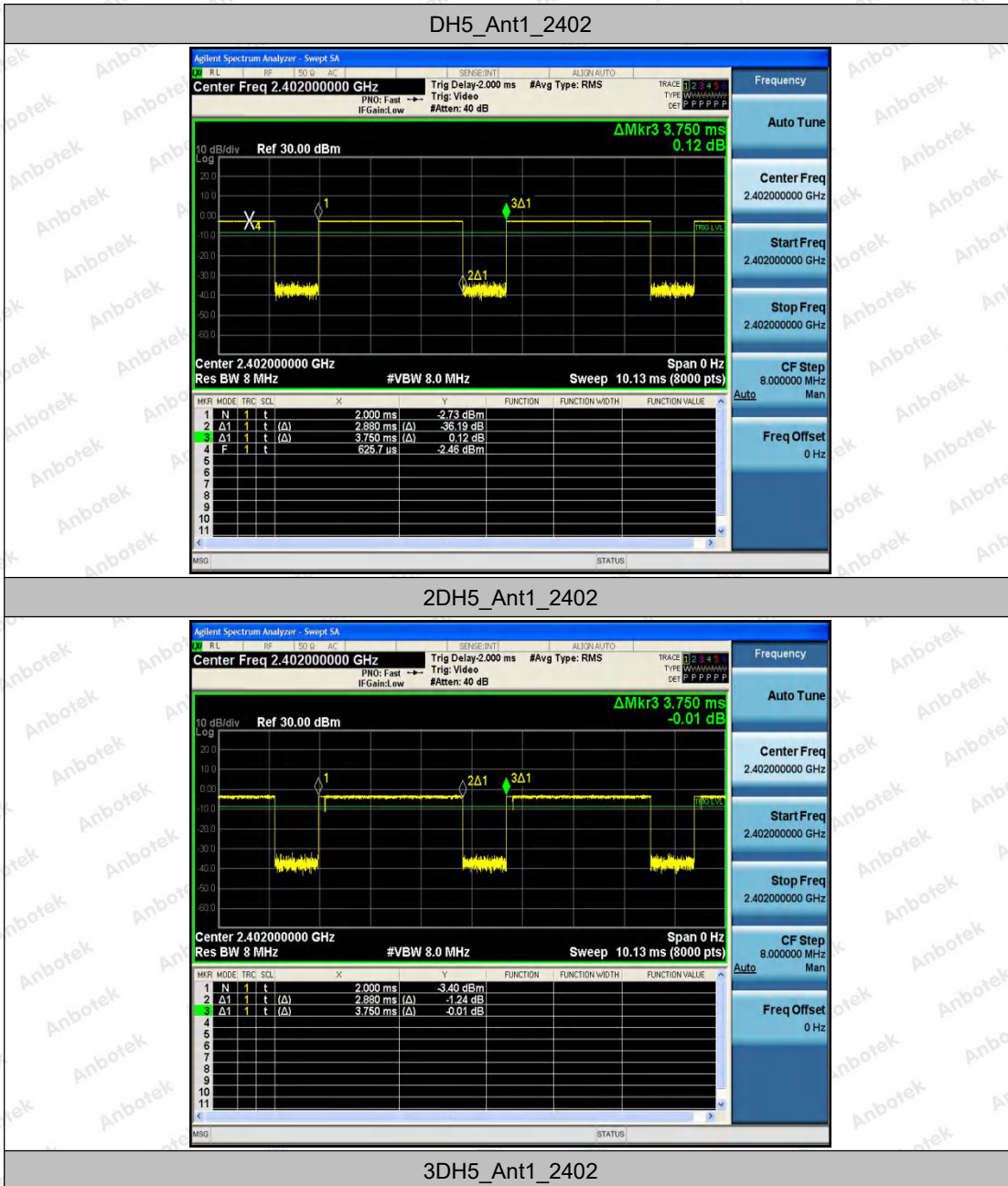
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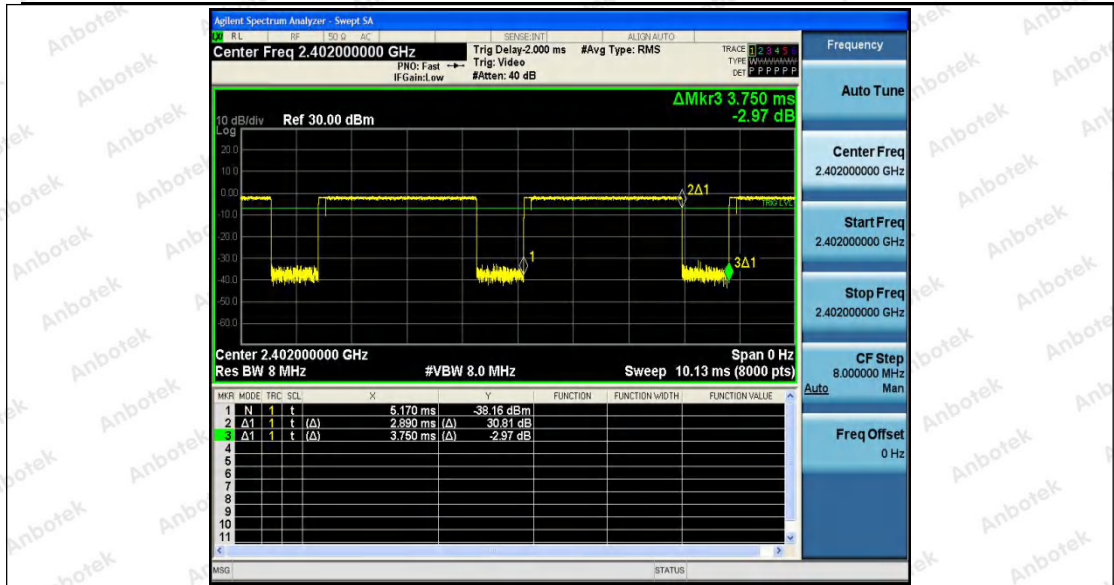
Appendix I: Duty Cycle

Test Result

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

Test Graphs





---End---