

Appendix Test Data

Report No.:	18220WC20042801	Test Sample No.:	1-2-2
Start Test Date:	2022.3.4	Finish Test Date:	2022.3.11
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	55.6 %
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	0.936	2401.538	2402.474	---	PASS
		2441	0.948	2440.538	2441.486	---	PASS
		2480	0.945	2479.535	2480.480	---	PASS
2DH5	Ant1	2402	1.329	2401.334	2402.663	---	PASS
		2441	1.269	2440.364	2441.633	---	PASS
		2480	1.311	2479.340	2480.651	---	PASS
3DH5	Ant1	2402	1.281	2401.346	2402.627	---	PASS
		2441	1.275	2440.349	2441.624	---	PASS
		2480	1.293	2479.349	2480.642	---	PASS

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



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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	0.89281	2401.552	2402.445	---	PASS
		2441	0.88385	2440.555	2441.439	---	PASS
		2480	0.89425	2479.552	2480.446	---	PASS
2DH5	Ant1	2402	1.1986	2401.399	2402.597	---	PASS
		2441	1.1903	2440.401	2441.591	---	PASS
		2480	1.1881	2479.404	2480.592	---	PASS
3DH5	Ant1	2402	1.2075	2401.385	2402.593	---	PASS
		2441	1.2106	2440.384	2441.595	---	PASS
		2480	1.2000	2479.393	2480.593	---	PASS

Test Graphs





2DH5_Ant1_2402



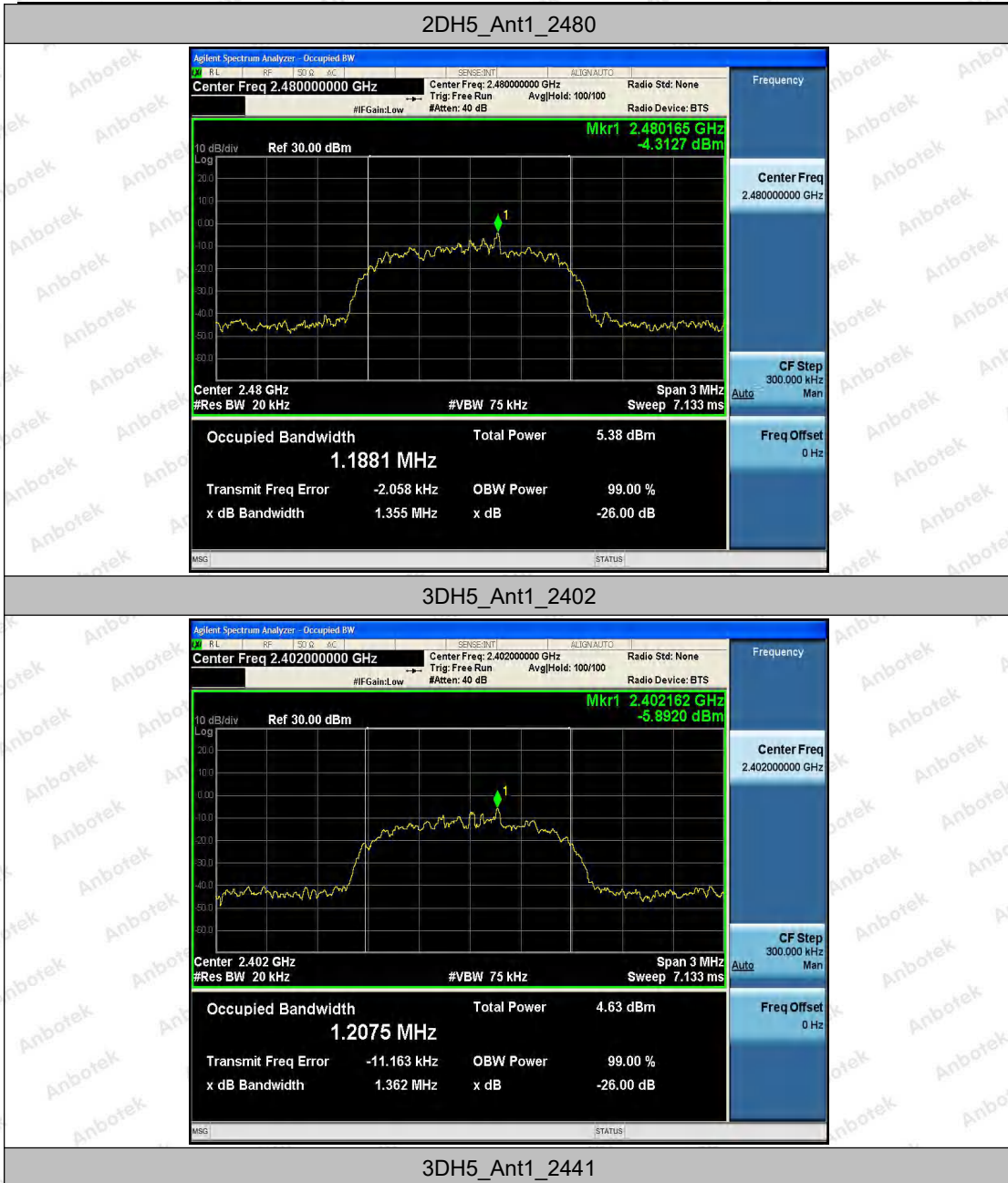
2DH5_Ant1_2441



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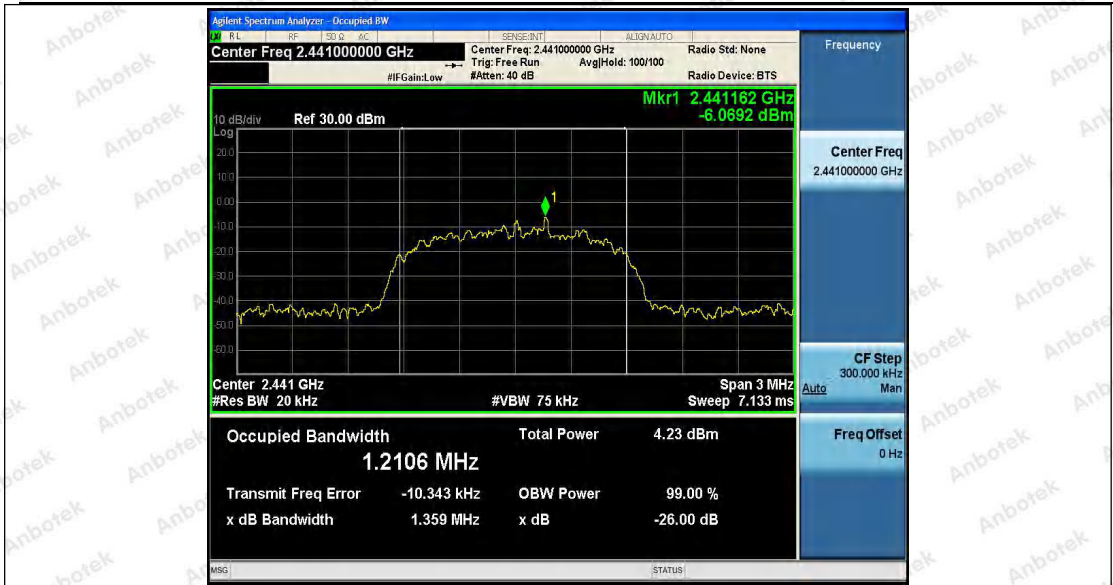


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3DH5_Ant1_2480



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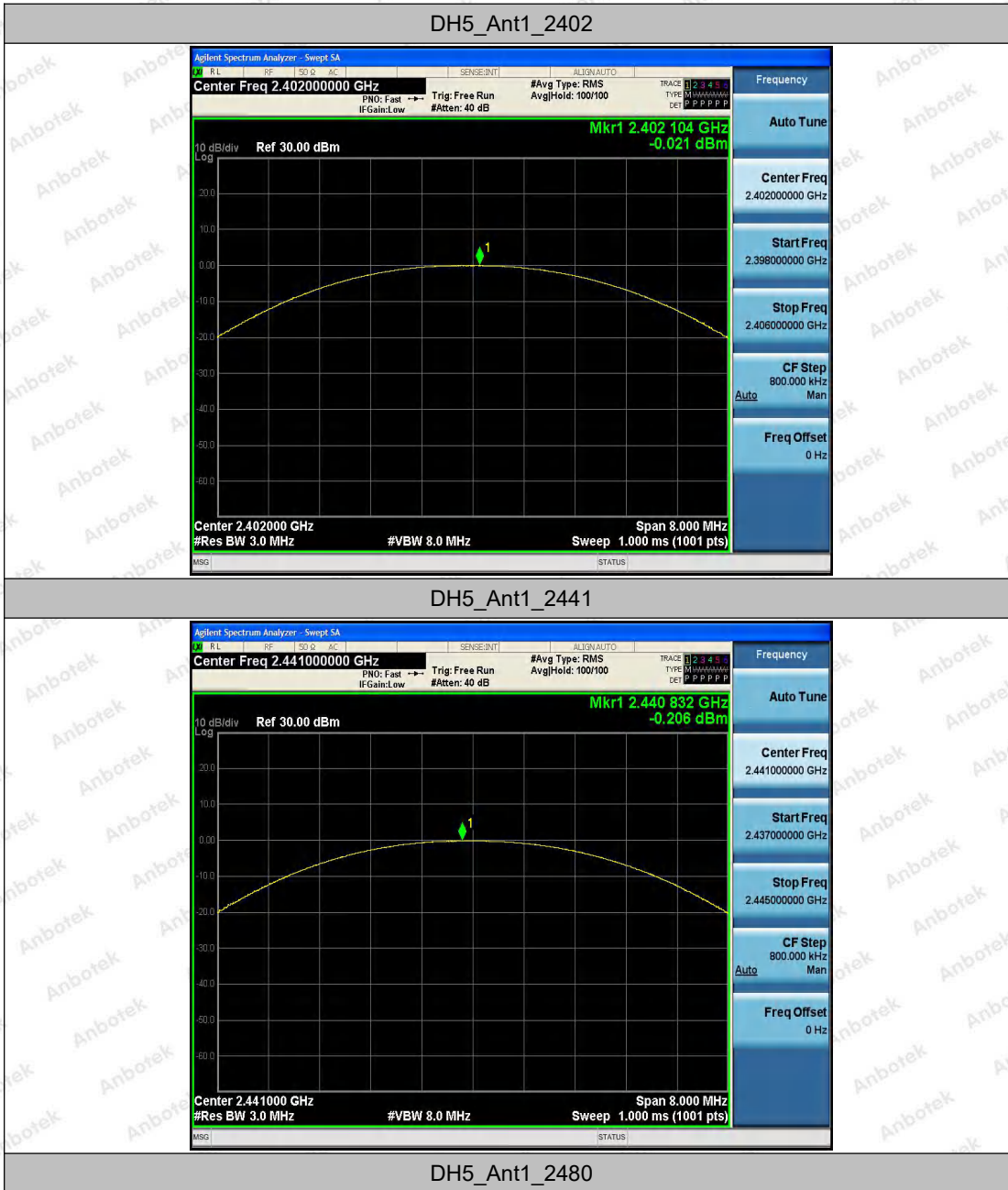
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Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.02	≤20.97	PASS
		2441	-0.21	≤20.97	PASS
		2480	0.58	≤20.97	PASS
2DH5	Ant1	2402	-0.59	≤20.97	PASS
		2441	-0.74	≤20.97	PASS
		2480	-0.07	≤20.97	PASS
3DH5	Ant1	2402	-0.66	≤20.97	PASS
		2441	-0.76	≤20.97	PASS
		2480	-0.02	≤20.97	PASS

Test Graphs



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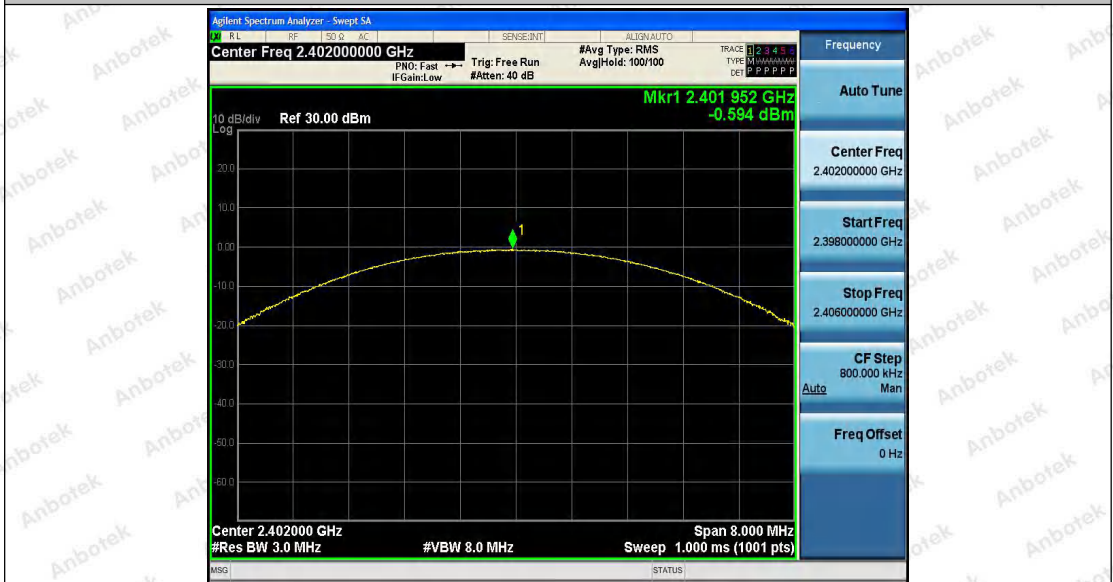
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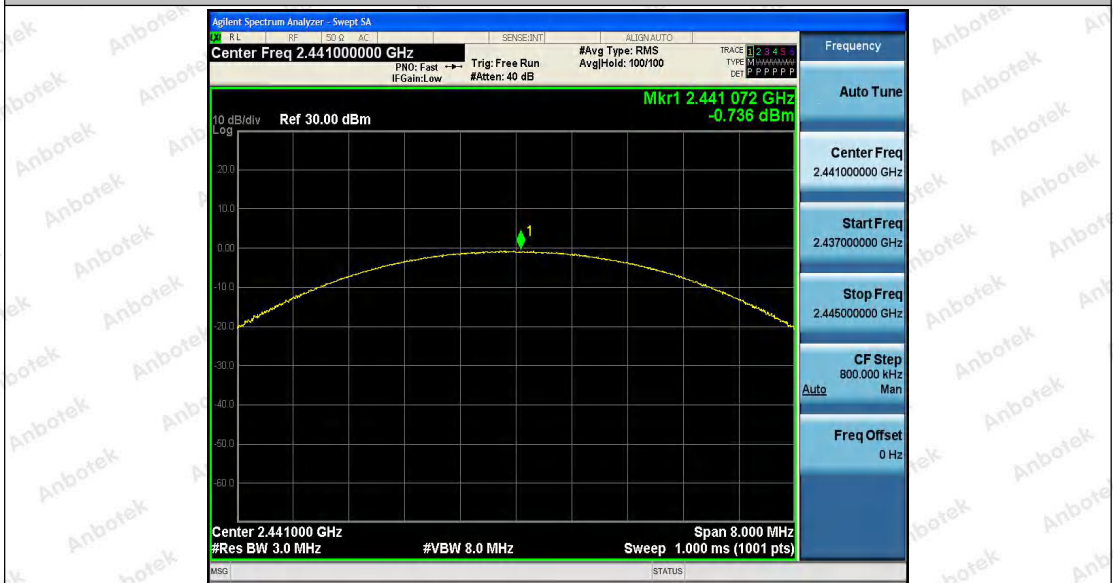
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2DH5_Ant1_2402



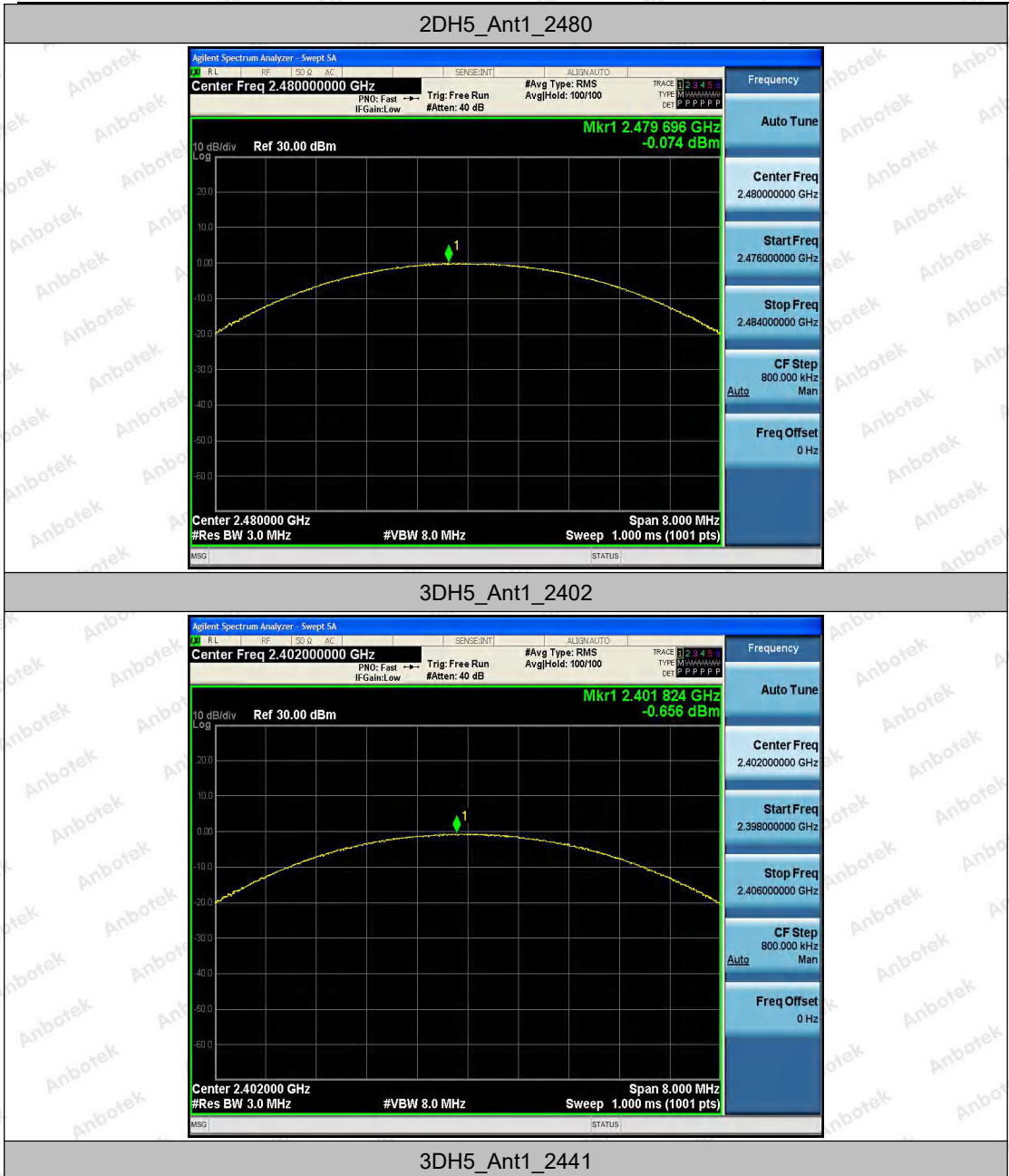
2DH5_Ant1_2441



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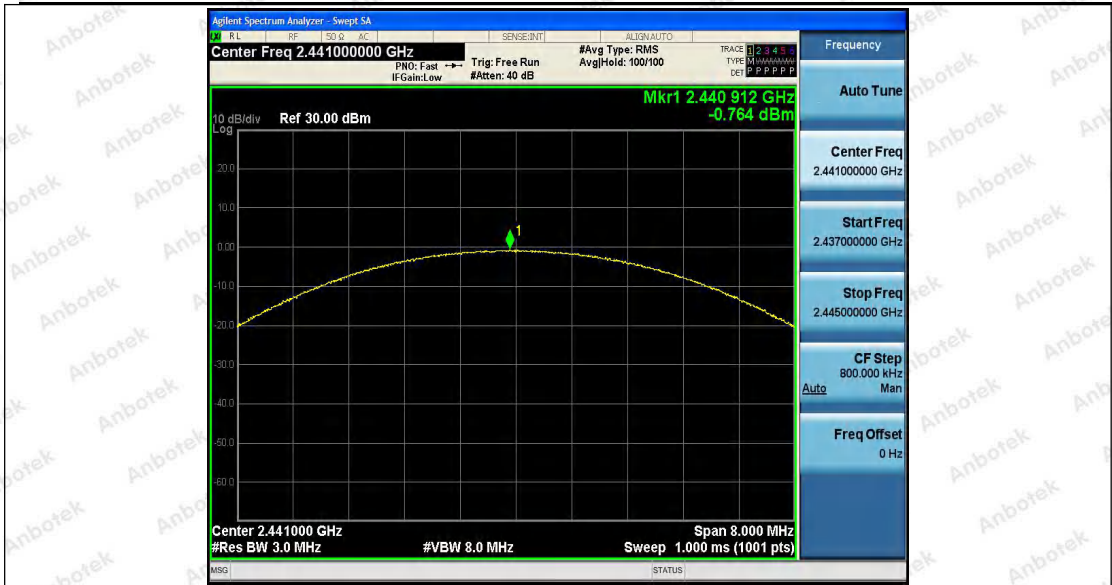
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3DH5_Ant1_2480



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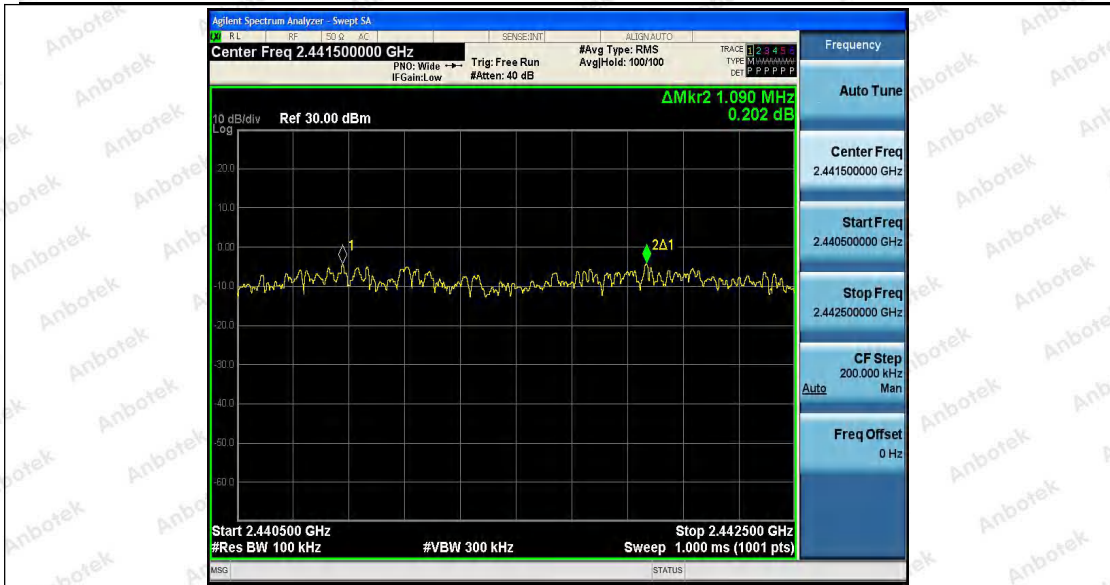
Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.104	≥ 0.948	PASS
2DH5	Ant1	Hop	1.192	≥ 0.886	PASS
3DH5	Ant1	Hop	1.09	≥ 0.862	PASS

Test Graphs





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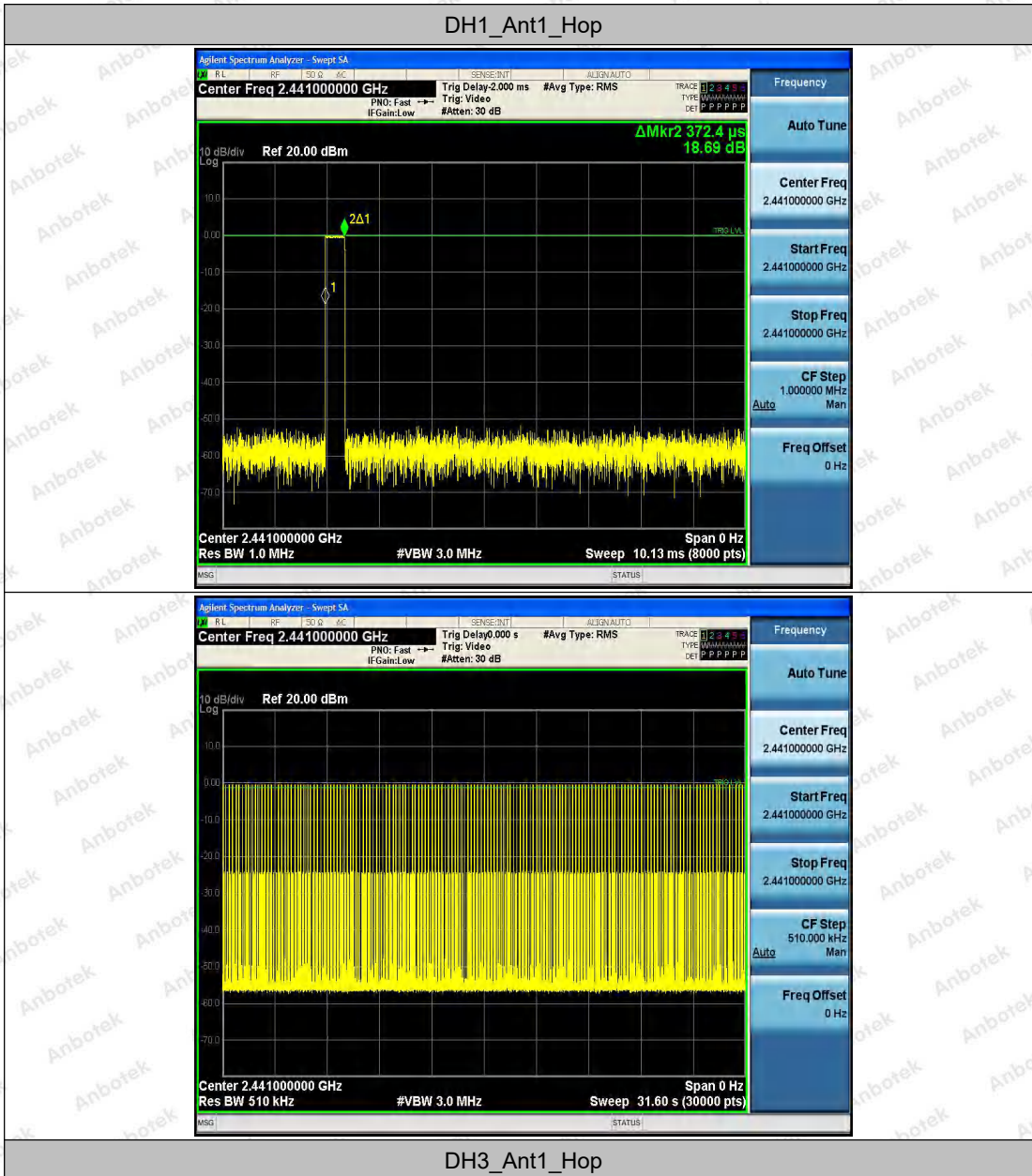
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Appendix E: Time of occupancy

Test Result

Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	314	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	158	0.257	≤0.4	PASS
DH5	Ant1	Hop	2.88	108	0.311	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
2DH5	Ant1	Hop	2.88	98	0.282	≤0.4	PASS
3DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
3DH5	Ant1	Hop	2.88	101	0.291	≤0.4	PASS

Test Graphs

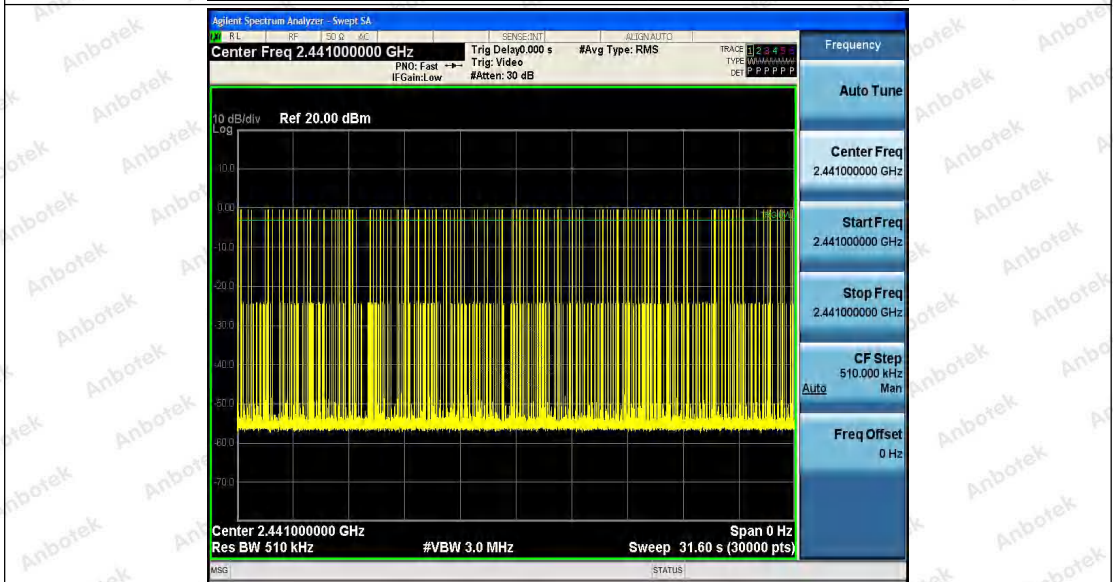
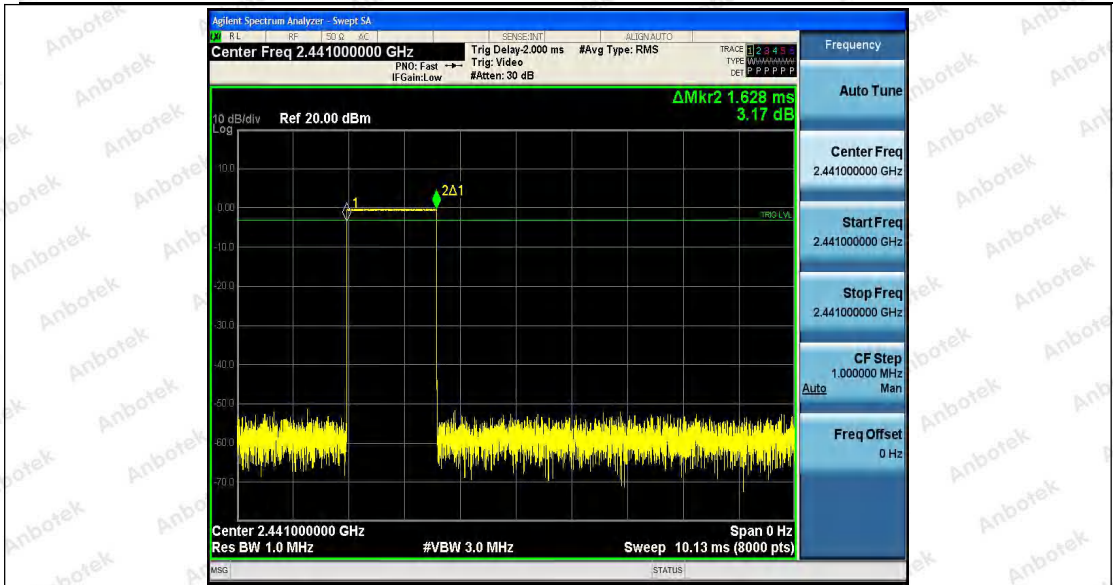


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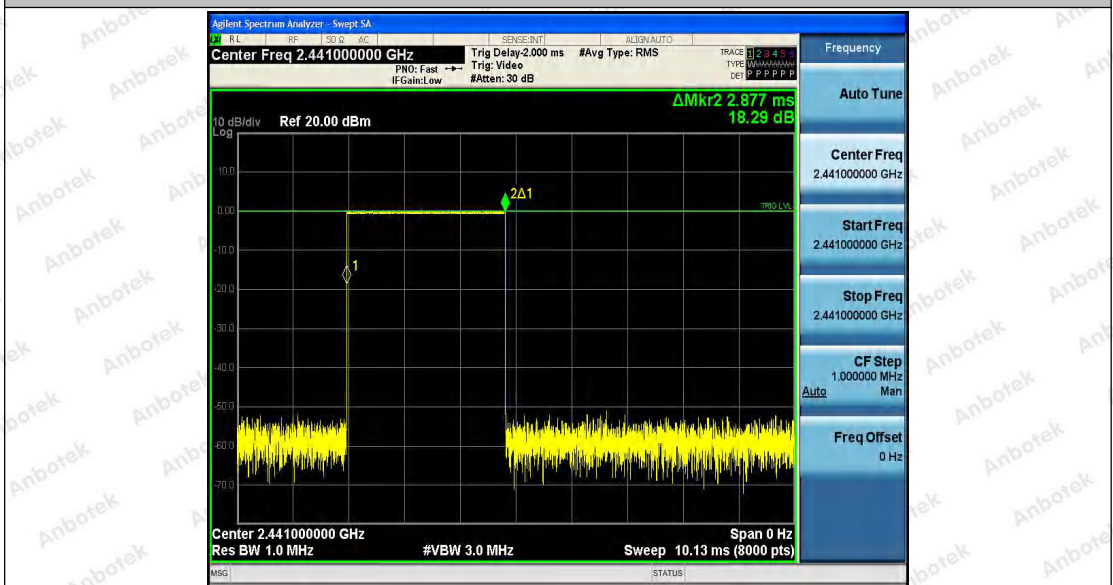
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DH5_Ant1_Hop

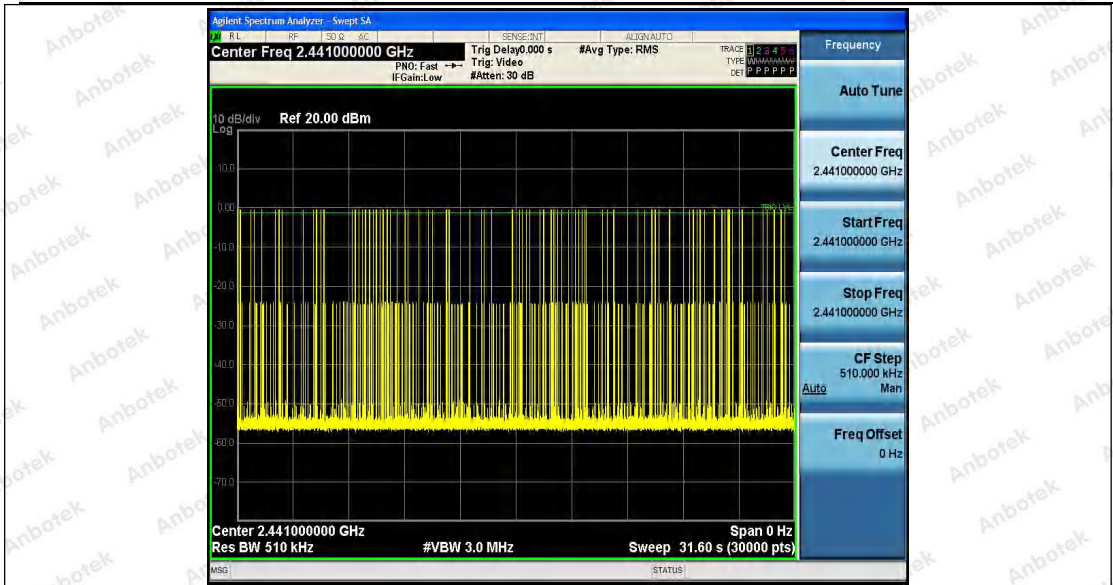


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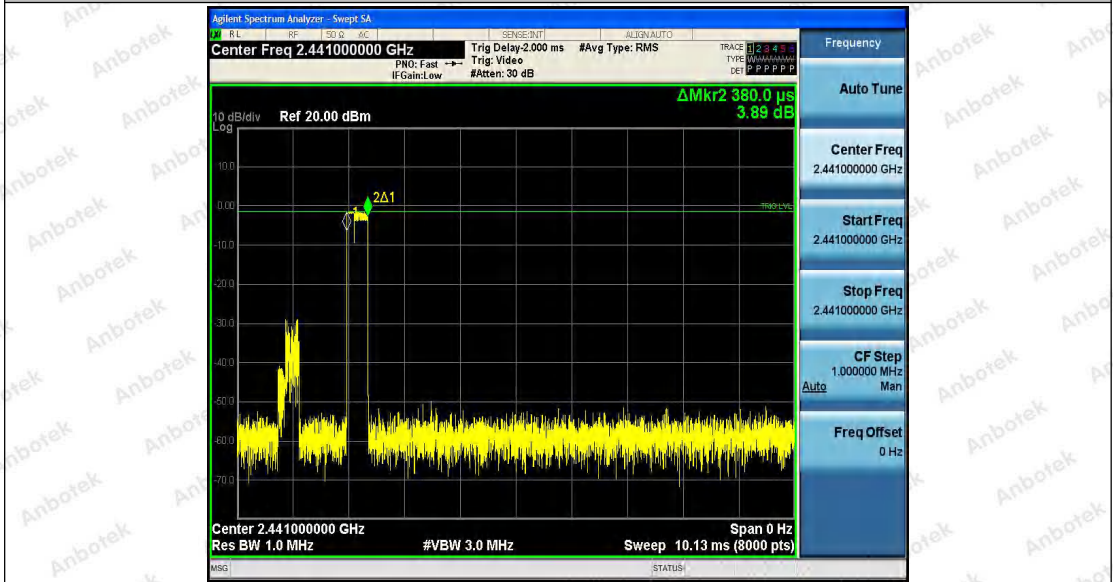
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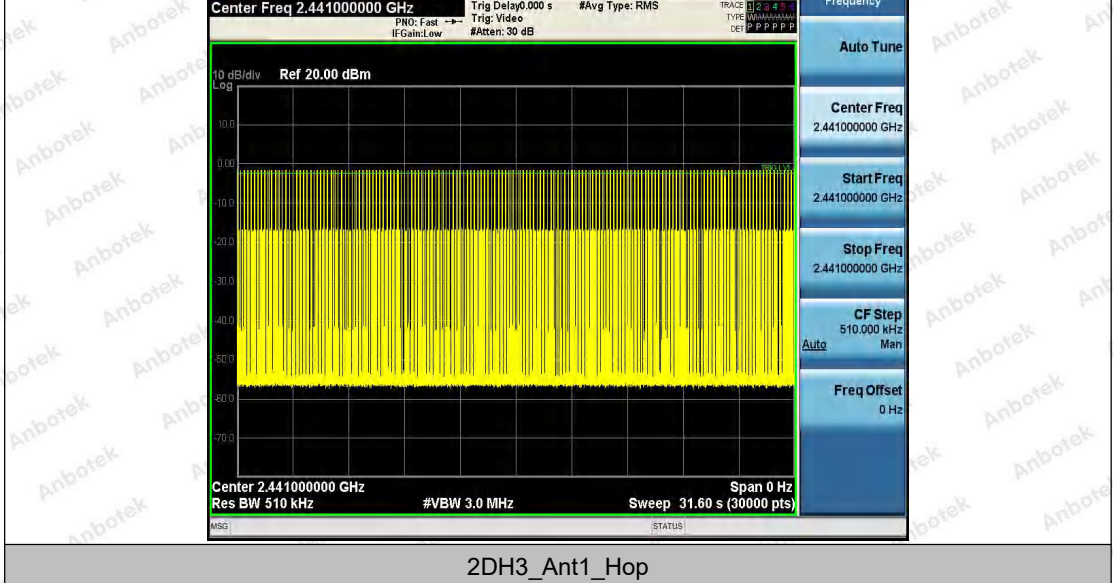
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2DH1_Ant1_Hop



2DH1_Ant1_Hop



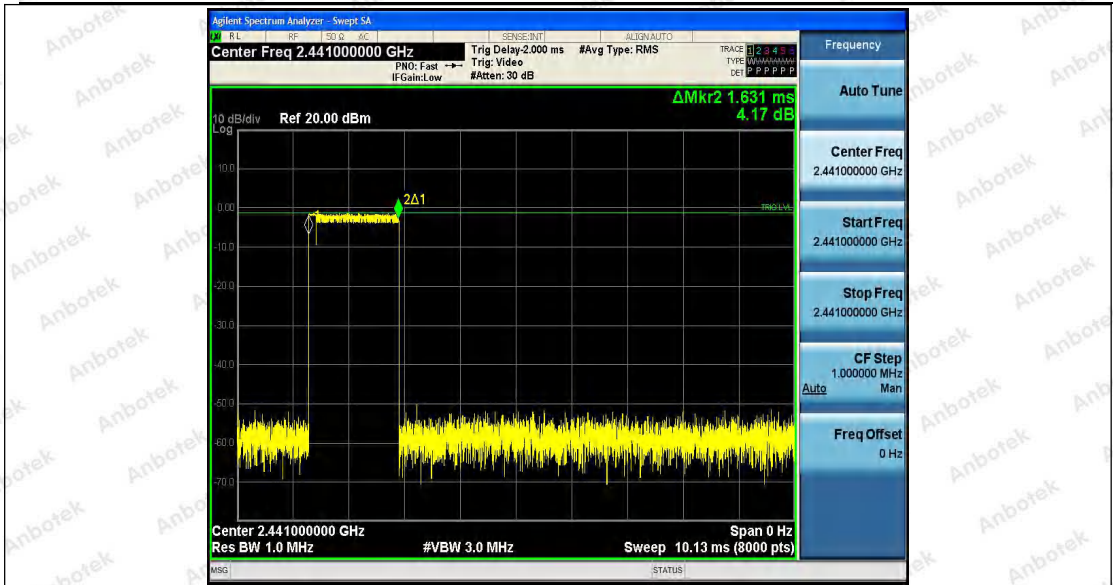
2DH3_Ant1_Hop

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2DH5_Ant1_Hop

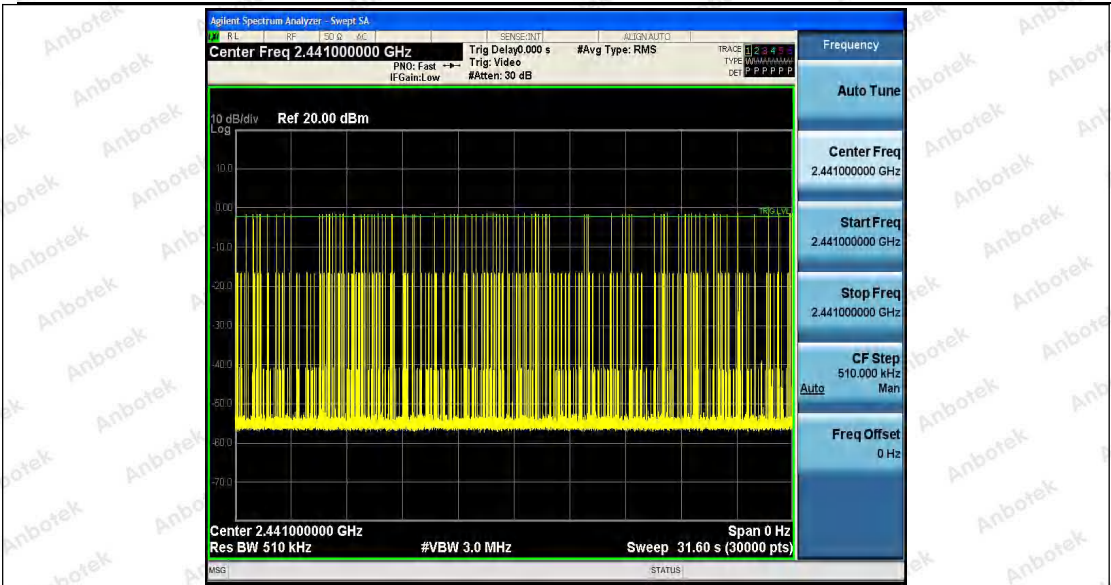


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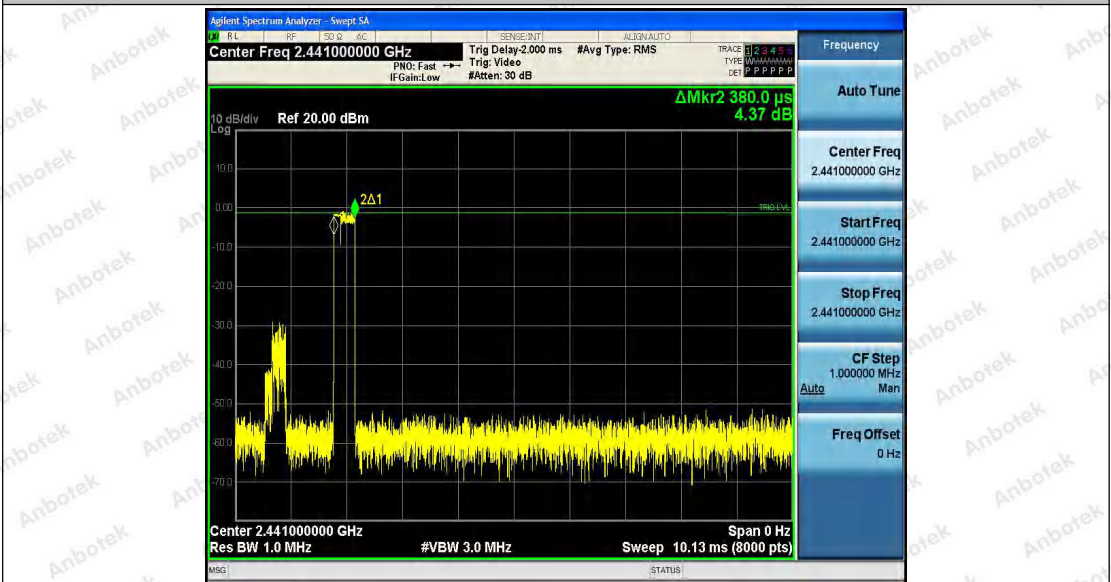
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3DH1_Ant1_Hop



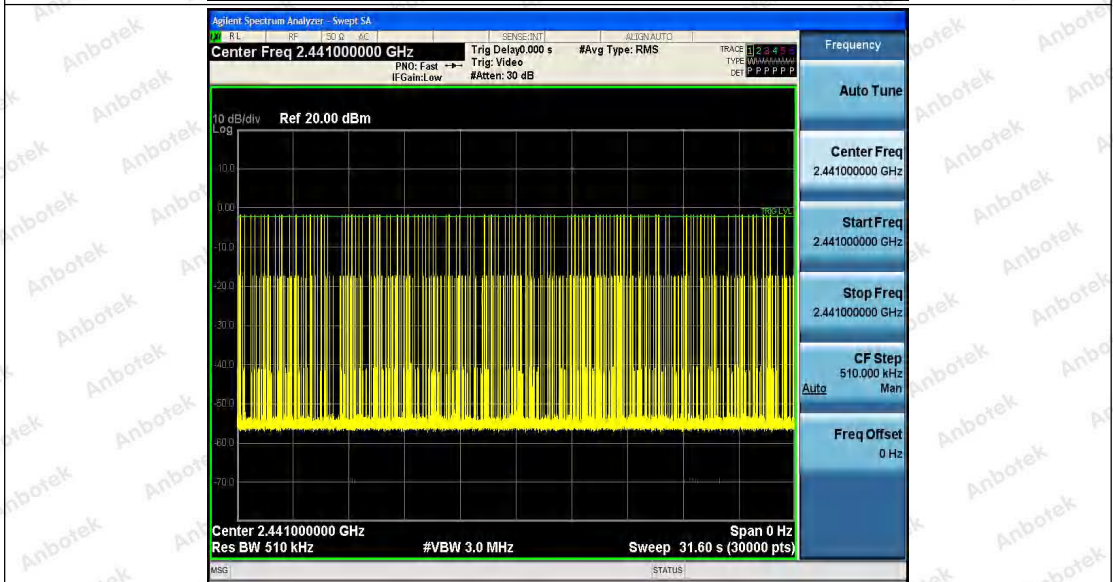
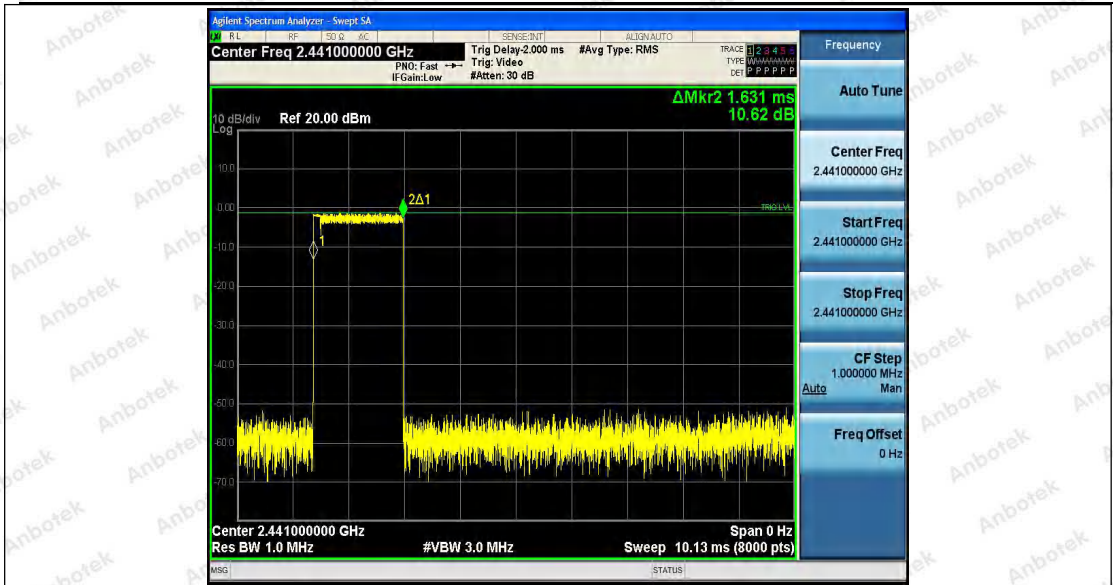
3DH3_Ant1_Hop

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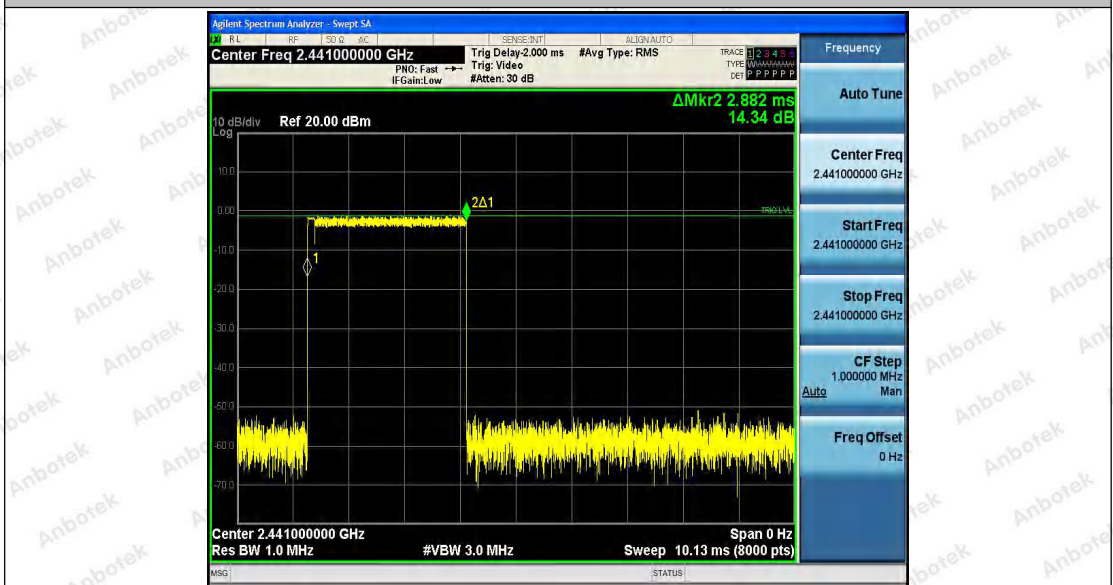
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3DH5_Ant1_Hop

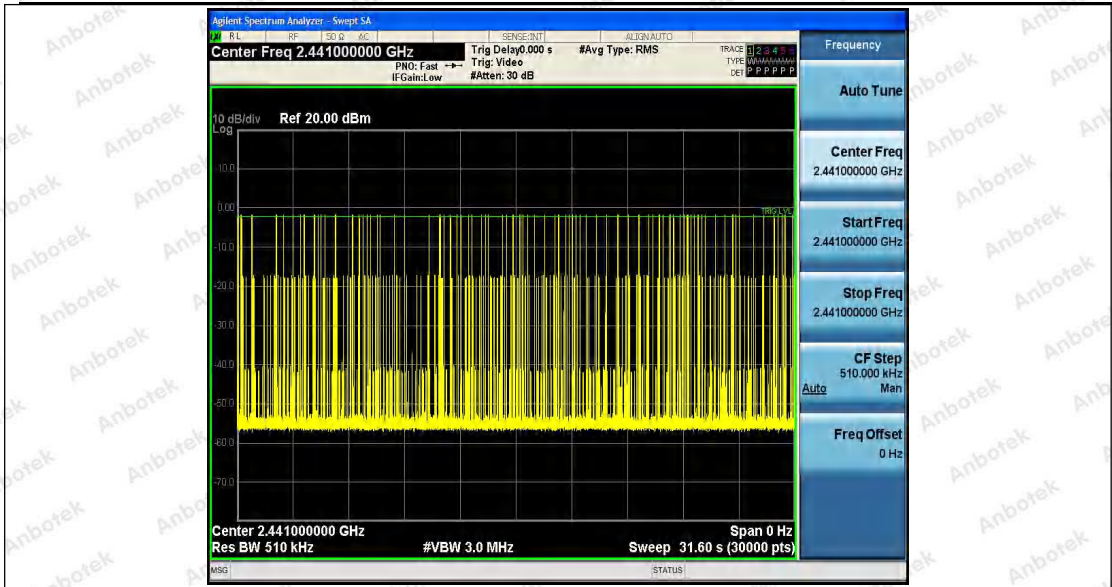


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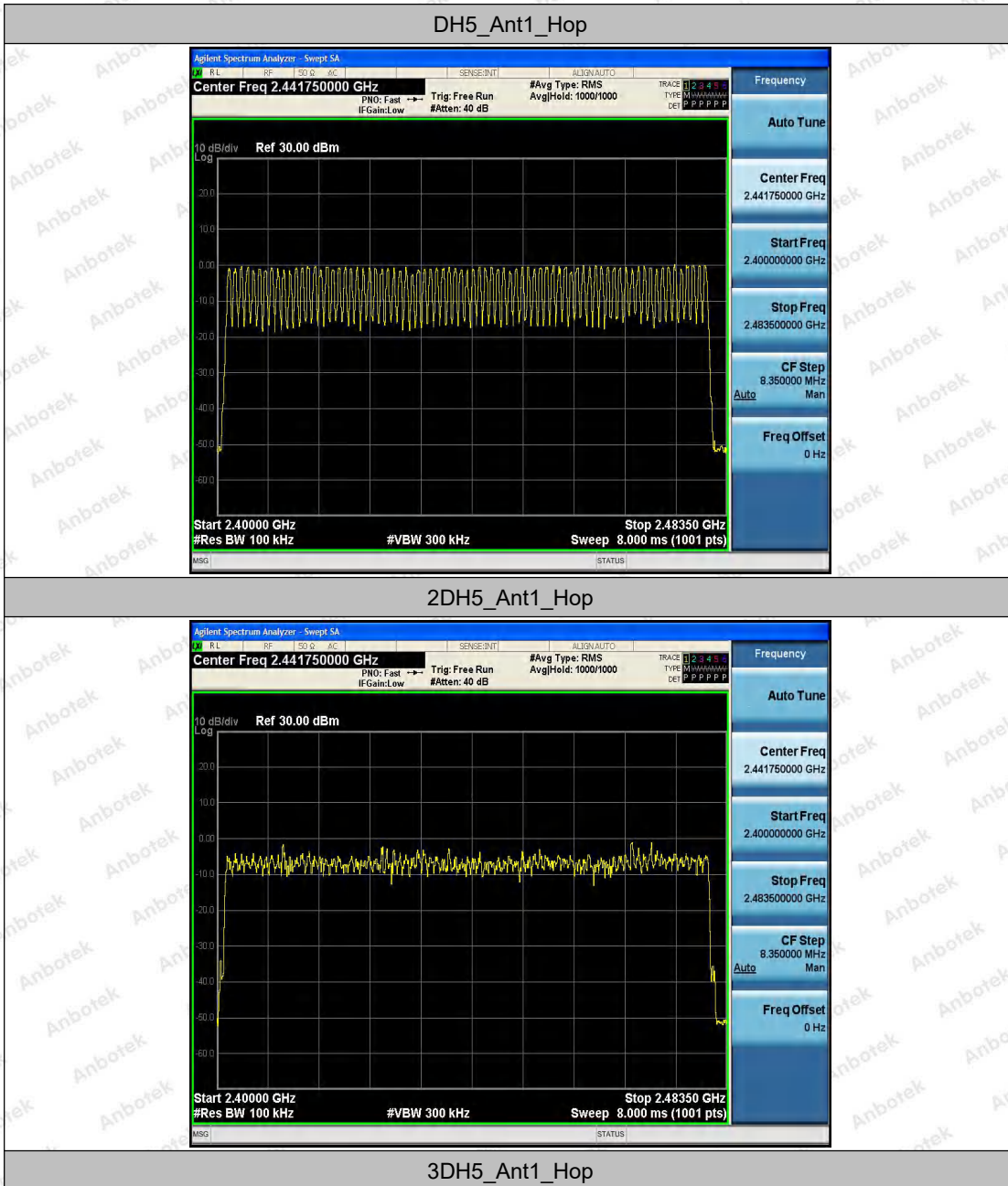
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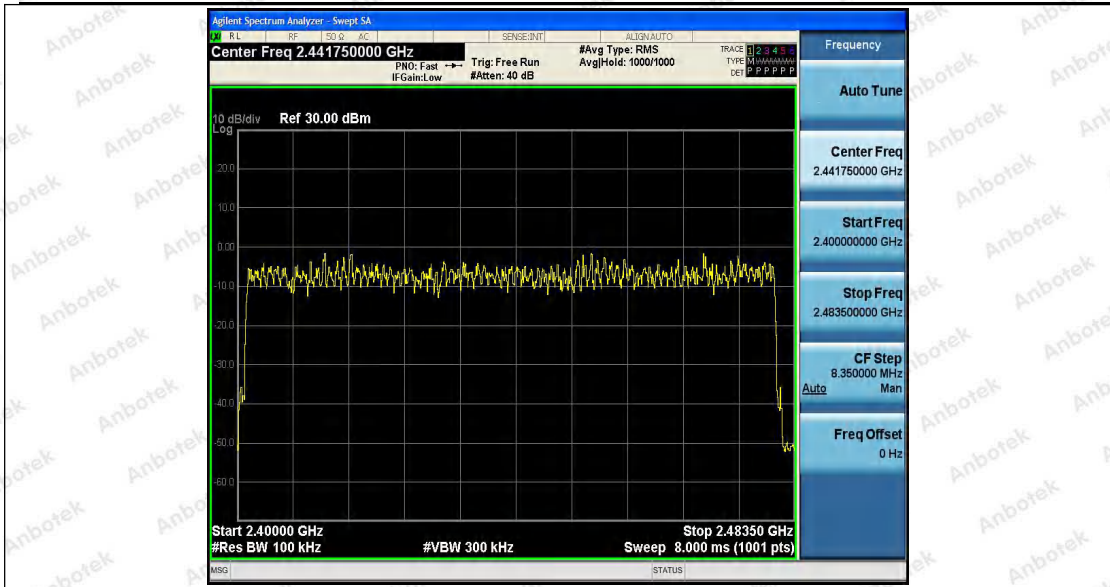
Appendix F: Number of hopping channels

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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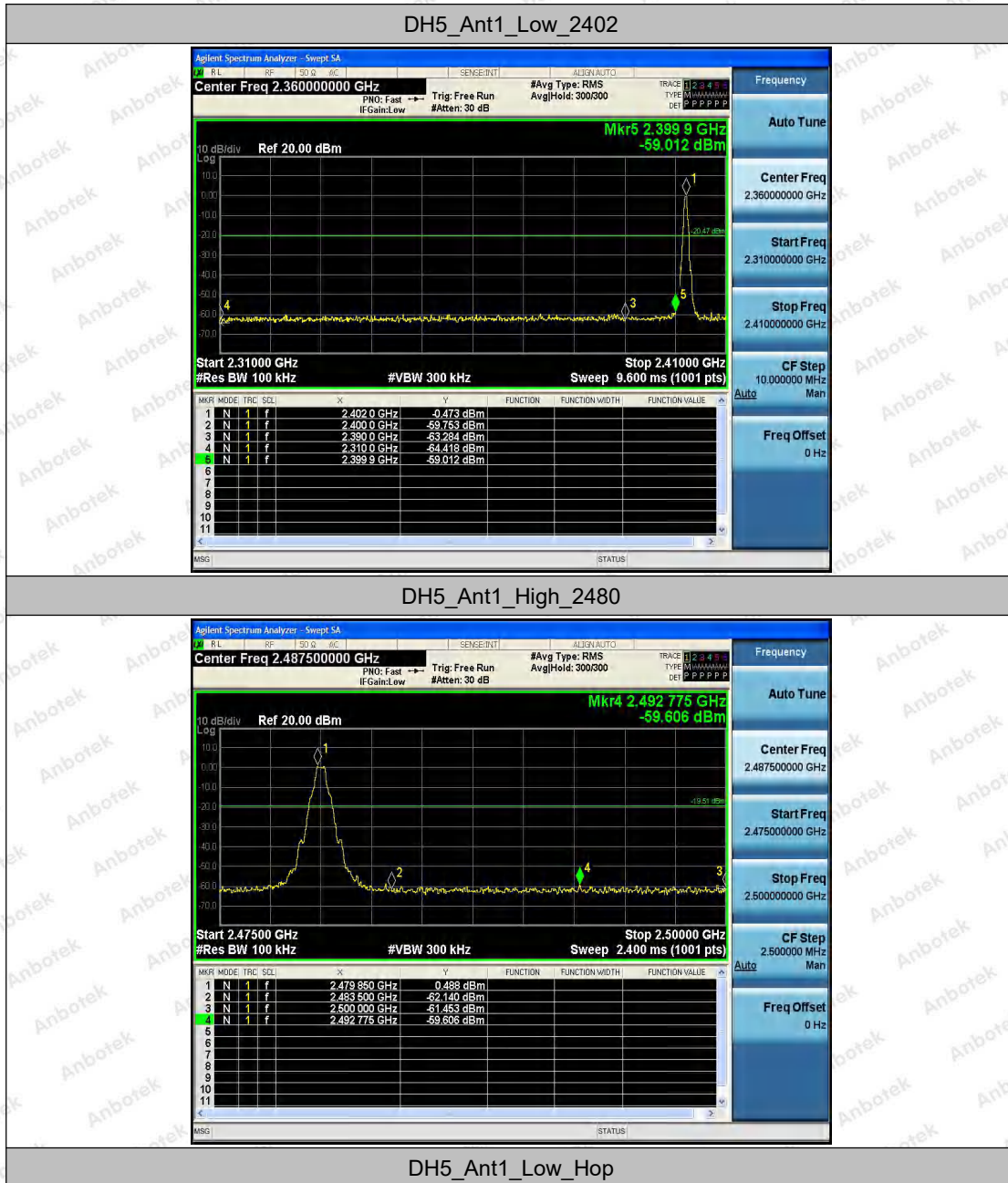
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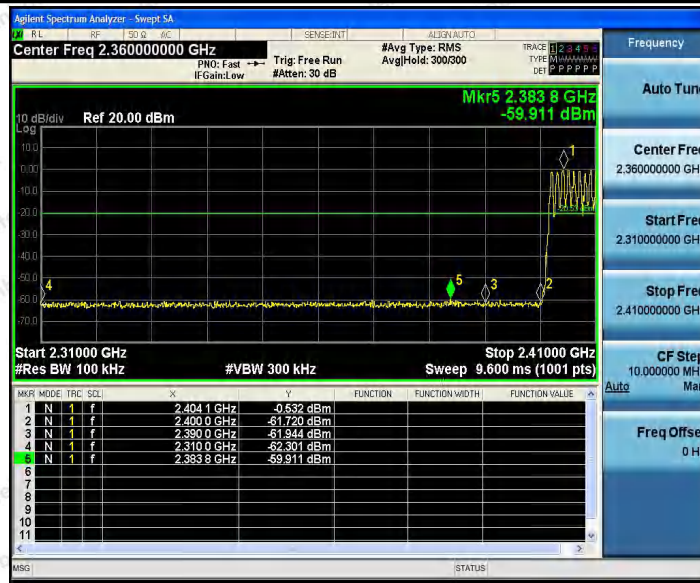
Appendix G: Band edge measurements

Test Result

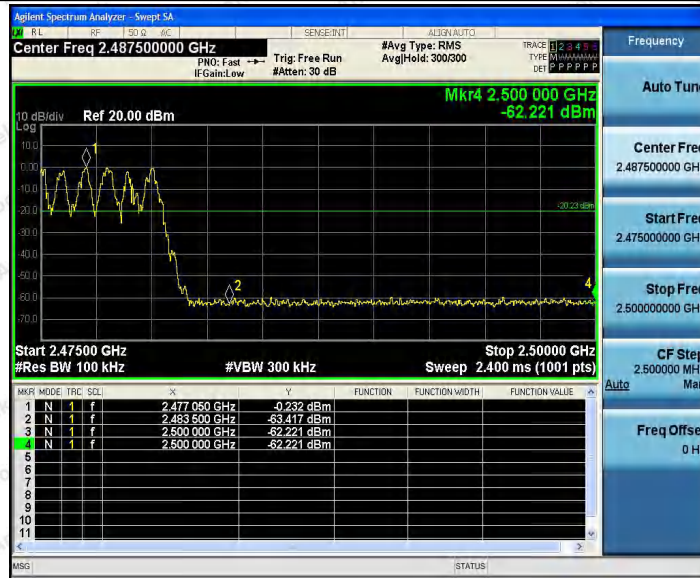
Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.47	-59.01	≤-20.47	PASS
		High	2480	0.49	-59.61	≤-19.51	PASS
		Low	Hop	-0.53	-59.91	≤-20.53	PASS
		High	Hop	-0.23	-62.22	≤-20.23	PASS
2DH5	Ant1	Low	2402	-1.94	-55.95	≤-21.94	PASS
		High	2480	-1.05	-59.55	≤-21.05	PASS
		Low	Hop	-1.89	-59.13	≤-21.89	PASS
		High	Hop	-2.13	-61.31	≤-22.13	PASS
3DH5	Ant1	Low	2402	-2.80	-57.6	≤-22.8	PASS
		High	2480	-0.86	-58.78	≤-20.86	PASS
		Low	Hop	-4.35	-59.07	≤-24.35	PASS
		High	Hop	-1.25	-61.73	≤-21.25	PASS

Test Graphs

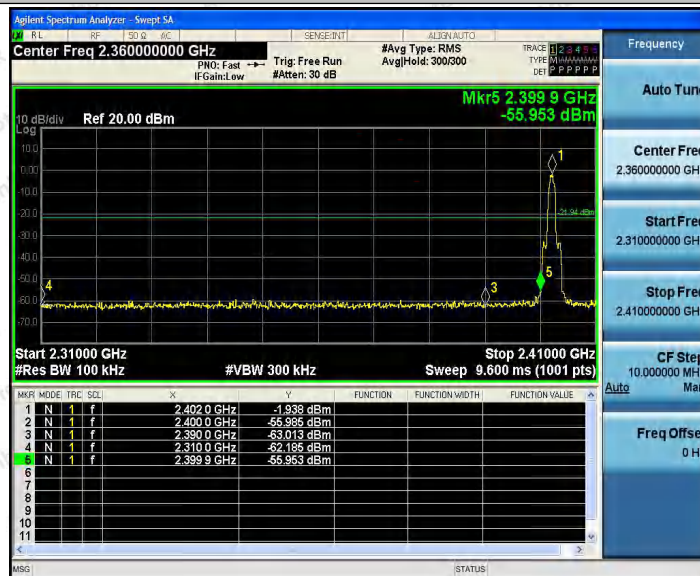




DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



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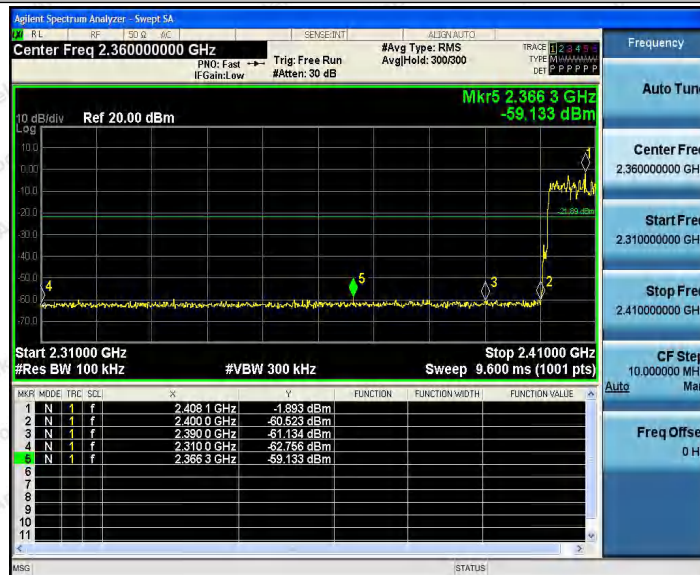
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



2DH5_Ant1_High_Hop

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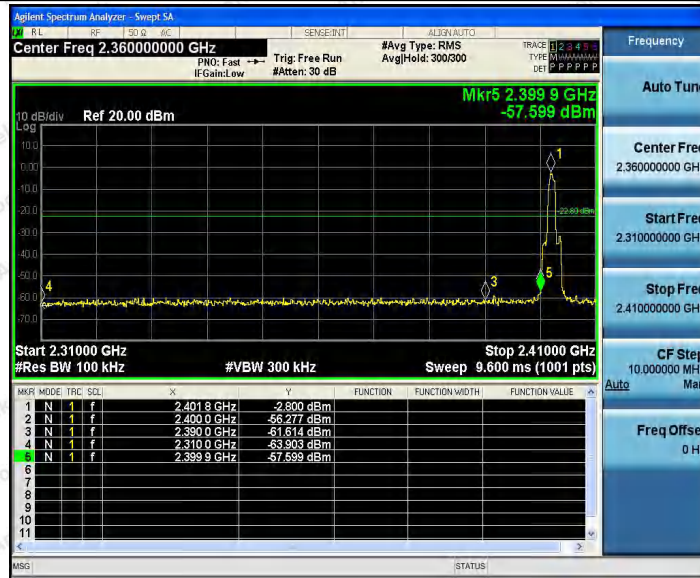
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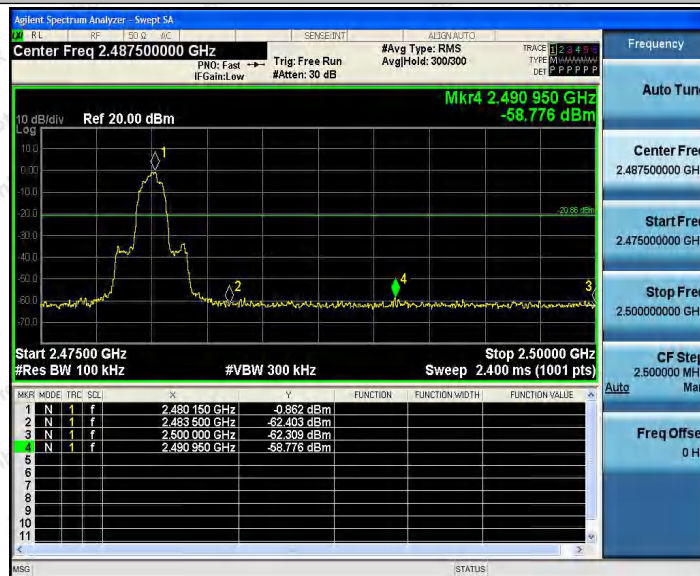
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

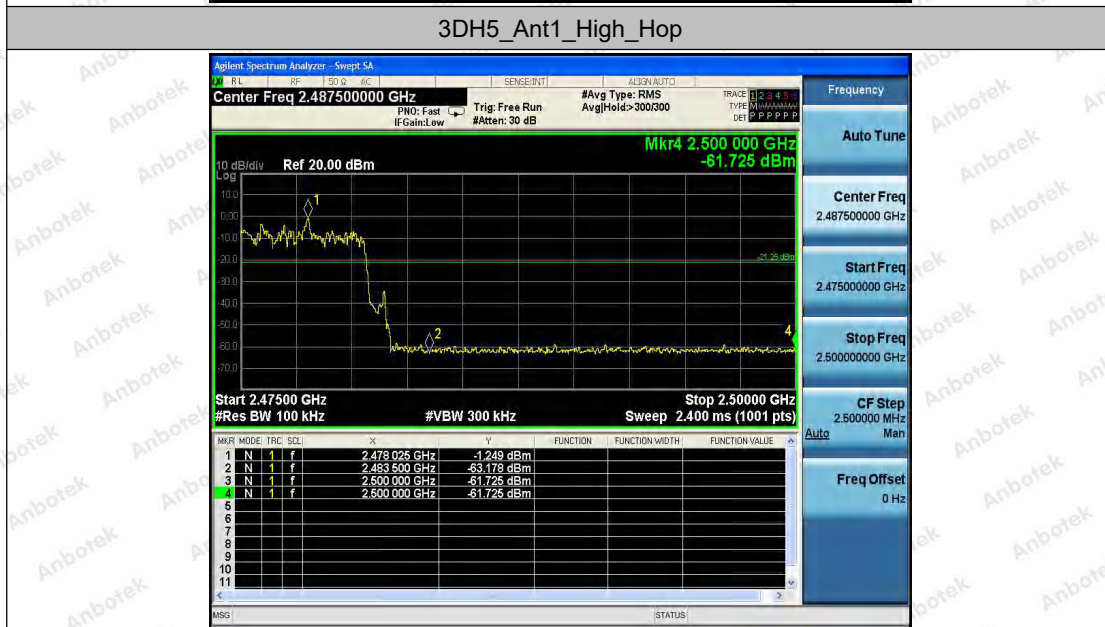
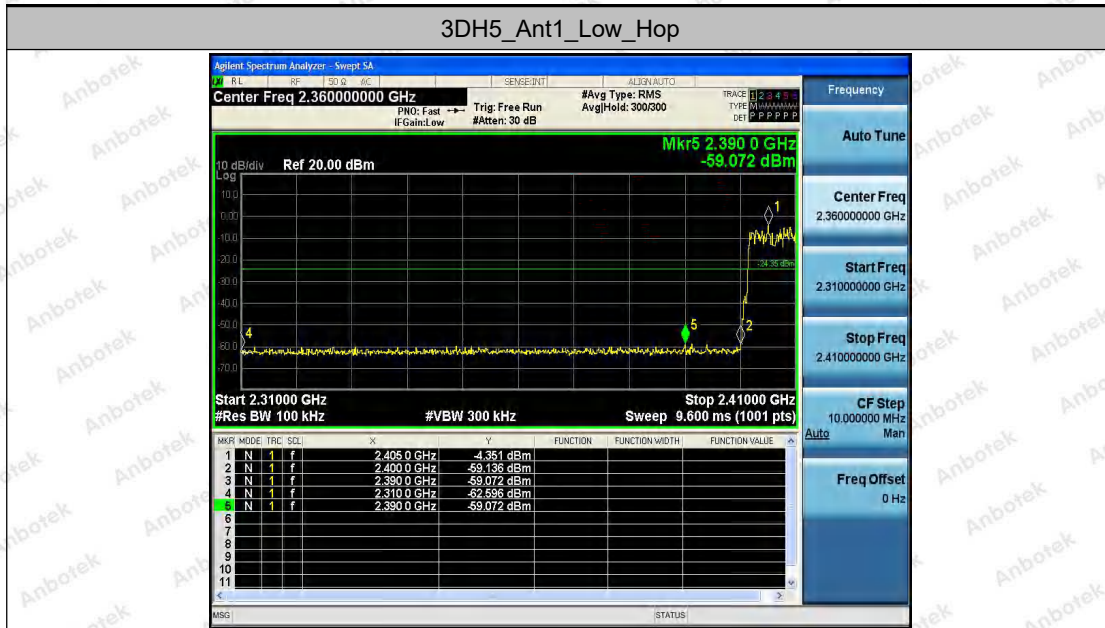


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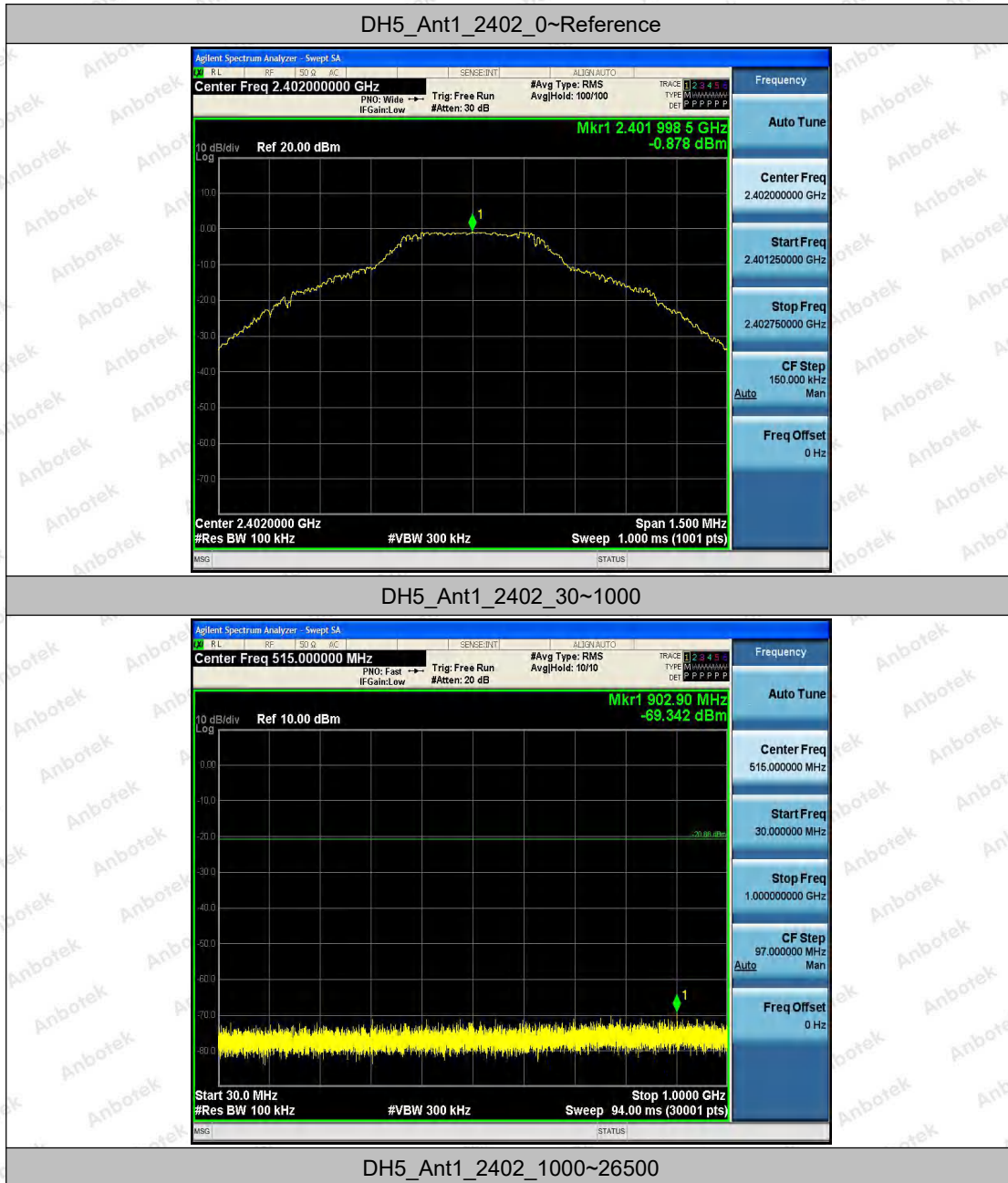
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Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.88	-0.88	---	PASS
			30~1000	-0.88	-69.34	≤-20.88	PASS
			1000~26500	-0.88	-55.13	≤-20.88	PASS
		2441	Reference	-0.90	-0.90	---	PASS
			30~1000	-0.90	-69.79	≤-20.9	PASS
			1000~26500	-0.90	-55.28	≤-20.9	PASS
		2480	Reference	0.32	0.32	---	PASS
			30~1000	0.32	-70.18	≤-19.68	PASS
			1000~26500	0.32	-54.4	≤-19.68	PASS
2DH5	Ant1	2402	Reference	-1.84	-1.84	---	PASS
			30~1000	-1.84	-69.76	≤-21.84	PASS
			1000~26500	-1.84	-55.95	≤-21.84	PASS
		2441	Reference	-2.25	-2.25	---	PASS
			30~1000	-2.25	-70.23	≤-22.25	PASS
			1000~26500	-2.25	-55.53	≤-22.25	PASS
		2480	Reference	-1.54	-1.54	---	PASS
			30~1000	-1.54	-70.79	≤-21.54	PASS
			1000~26500	-1.54	-55.38	≤-21.54	PASS
3DH5	Ant1	2402	Reference	-1.92	-1.92	---	PASS
			30~1000	-1.92	-70.29	≤-21.92	PASS
			1000~26500	-1.92	-54.09	≤-21.92	PASS
		2441	Reference	-2.34	-2.34	---	PASS
			30~1000	-2.34	-70.68	≤-22.34	PASS
			1000~26500	-2.34	-54.95	≤-22.34	PASS
		2480	Reference	-1.02	-1.02	---	PASS
			30~1000	-1.02	-70.31	≤-21.02	PASS
			1000~26500	-1.02	-55.77	≤-21.02	PASS

Test Graphs

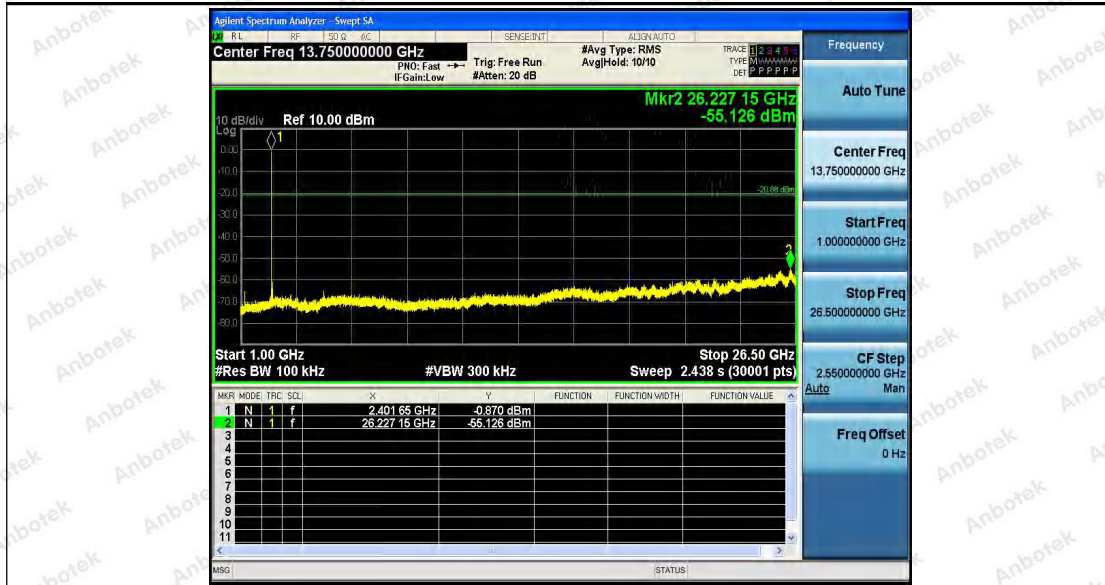


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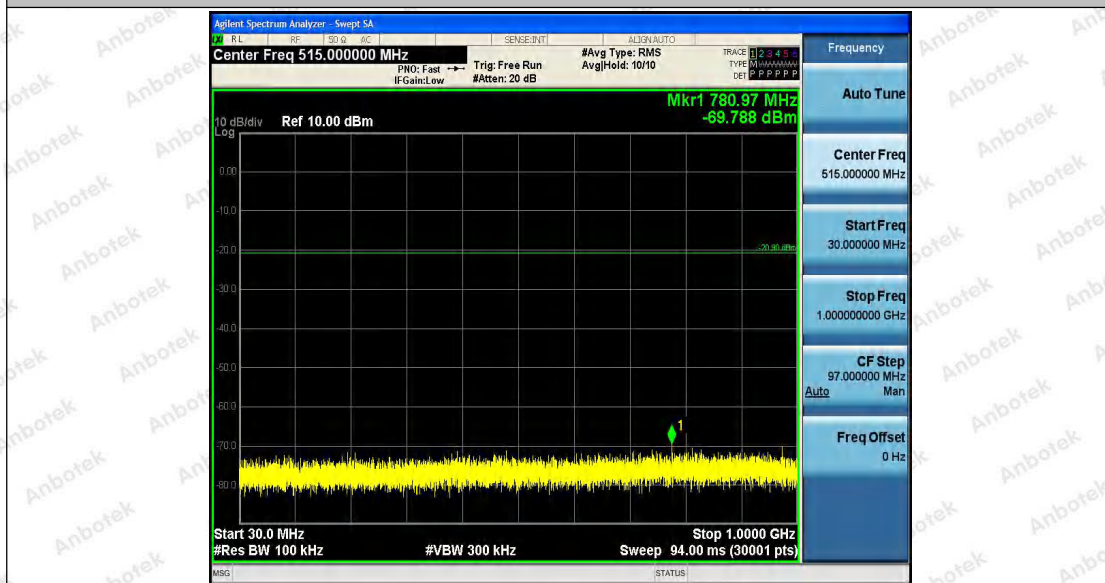
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



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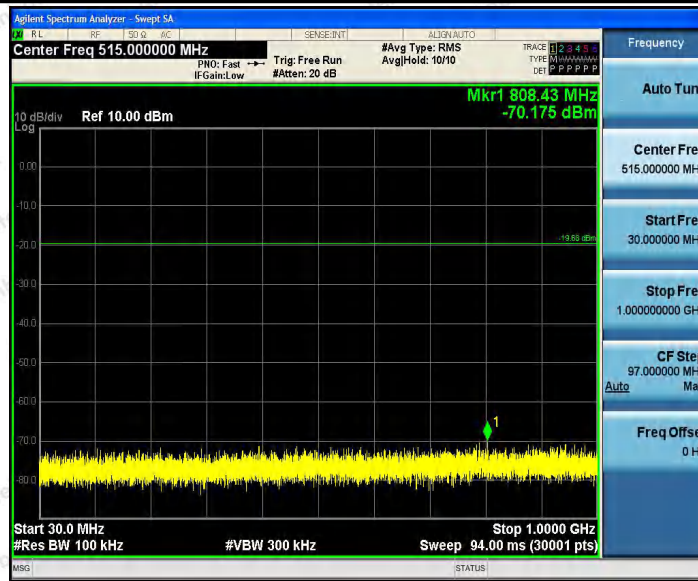


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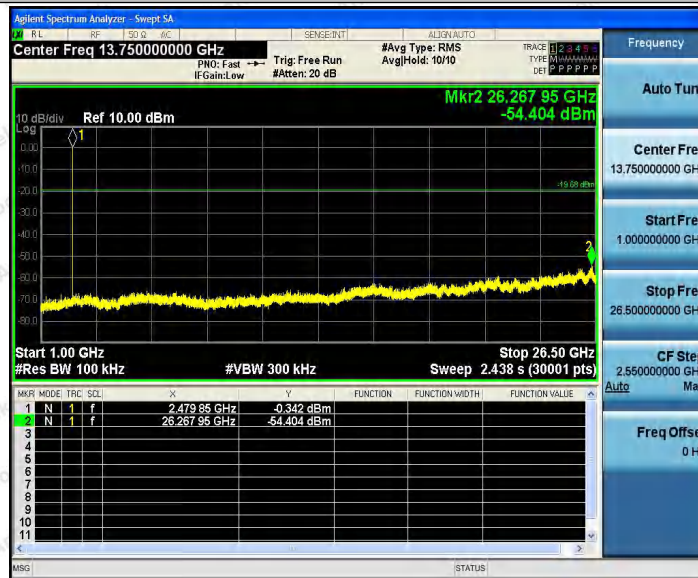
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

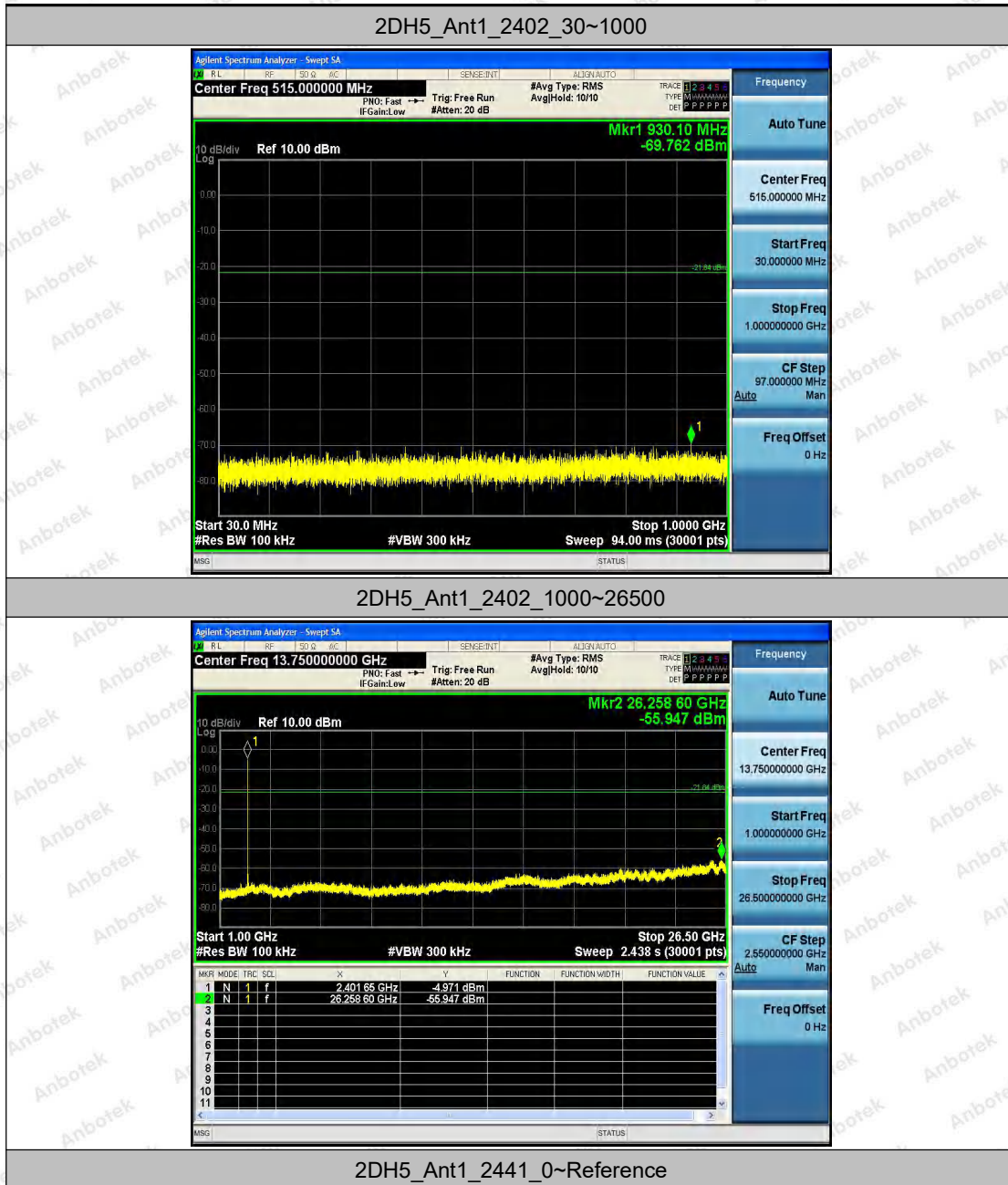


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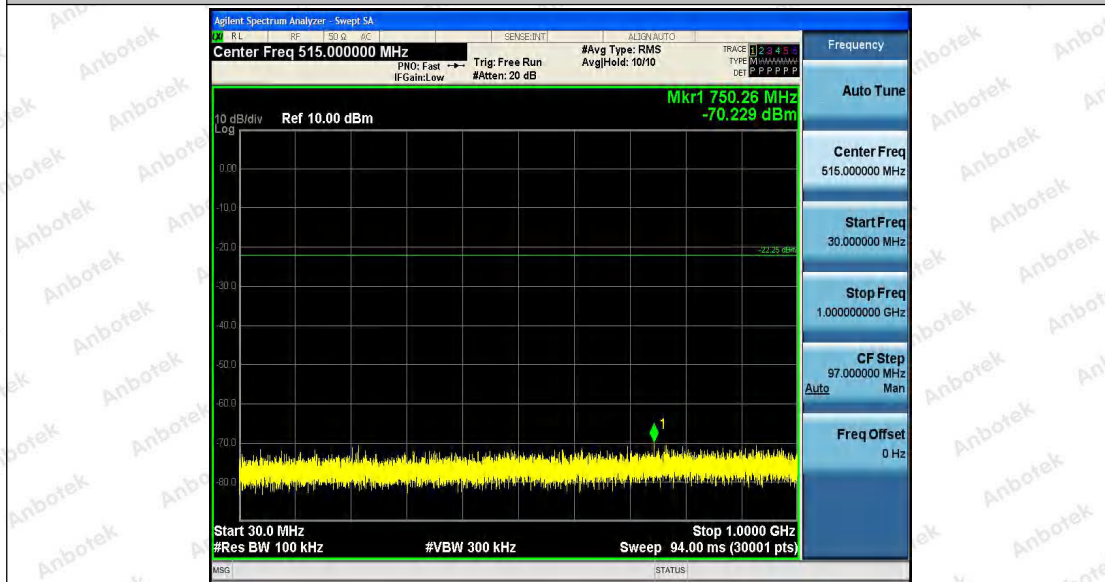
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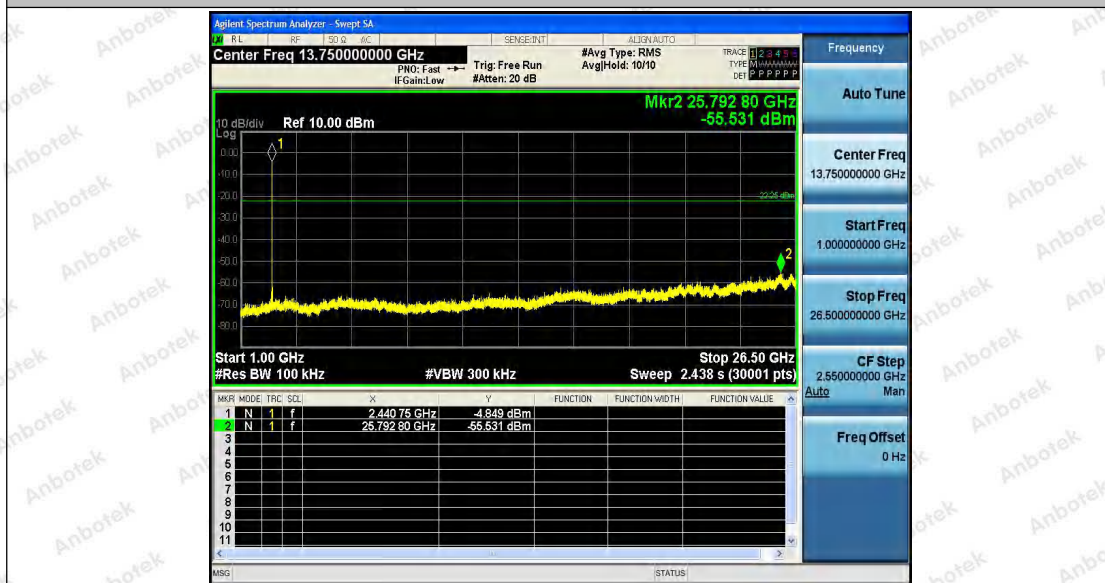
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2DH5_Ant1_2441_30~1000



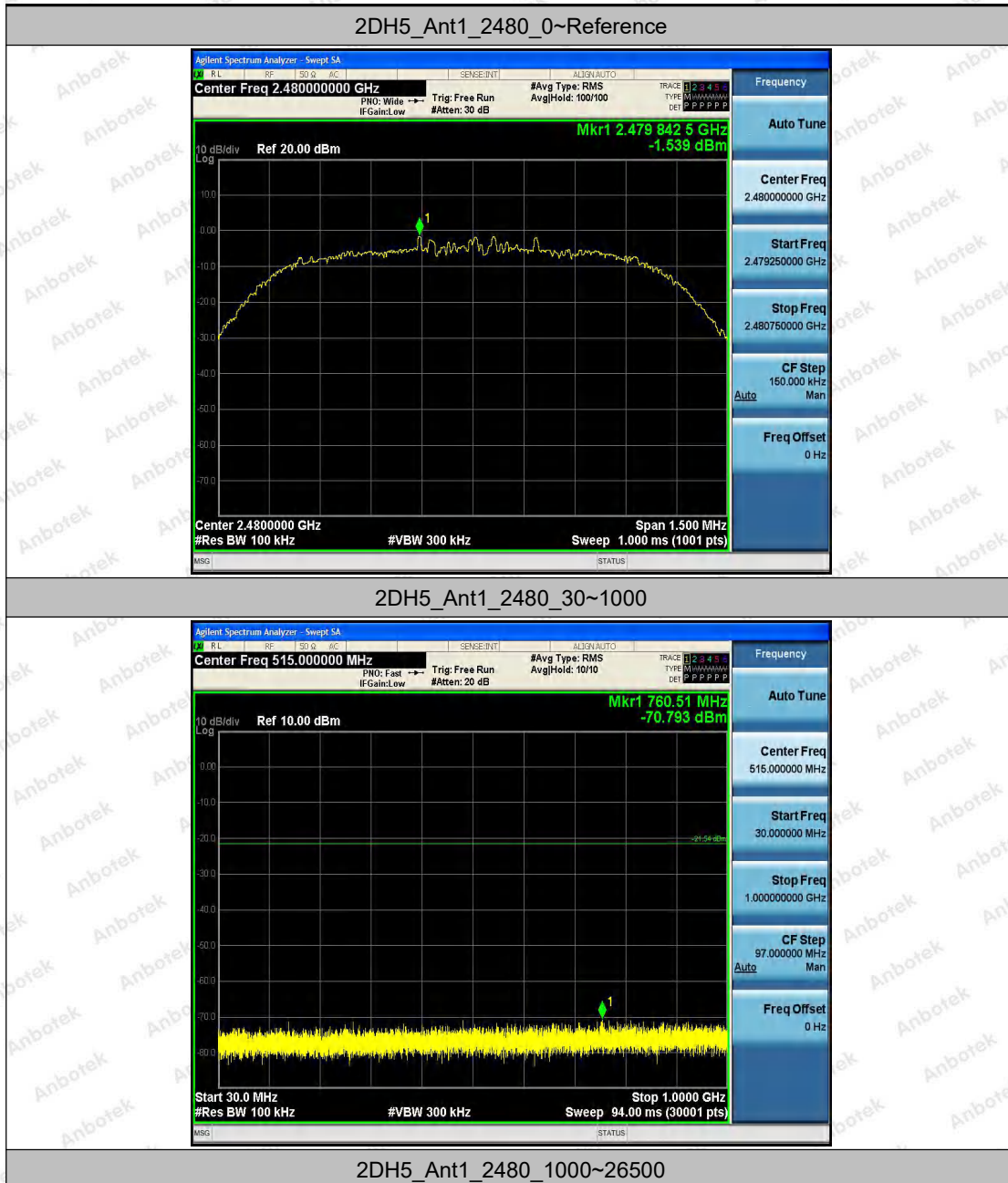
2DH5_Ant1_2441_1000~26500



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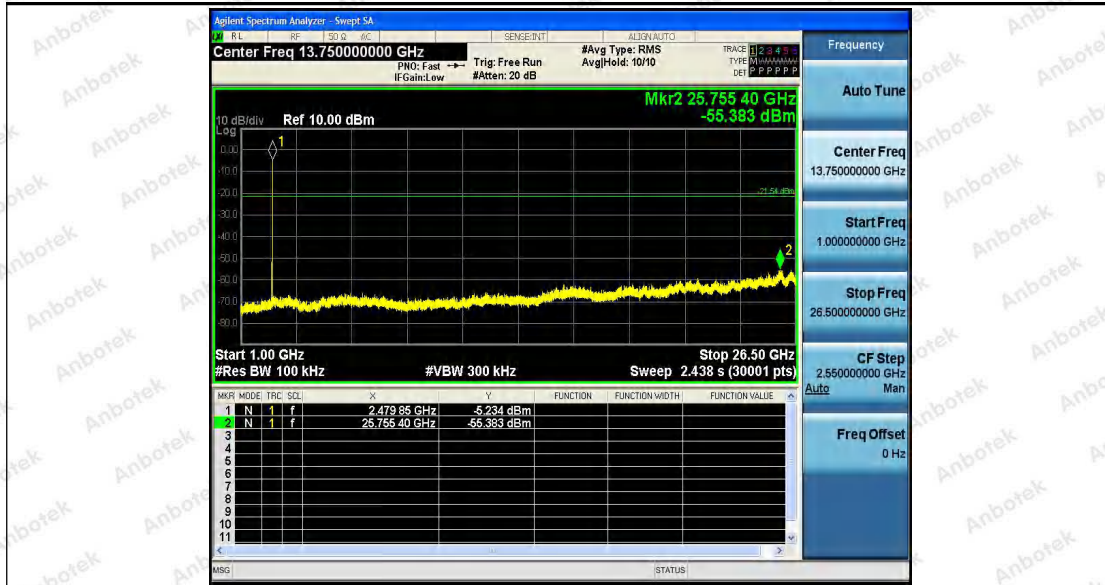
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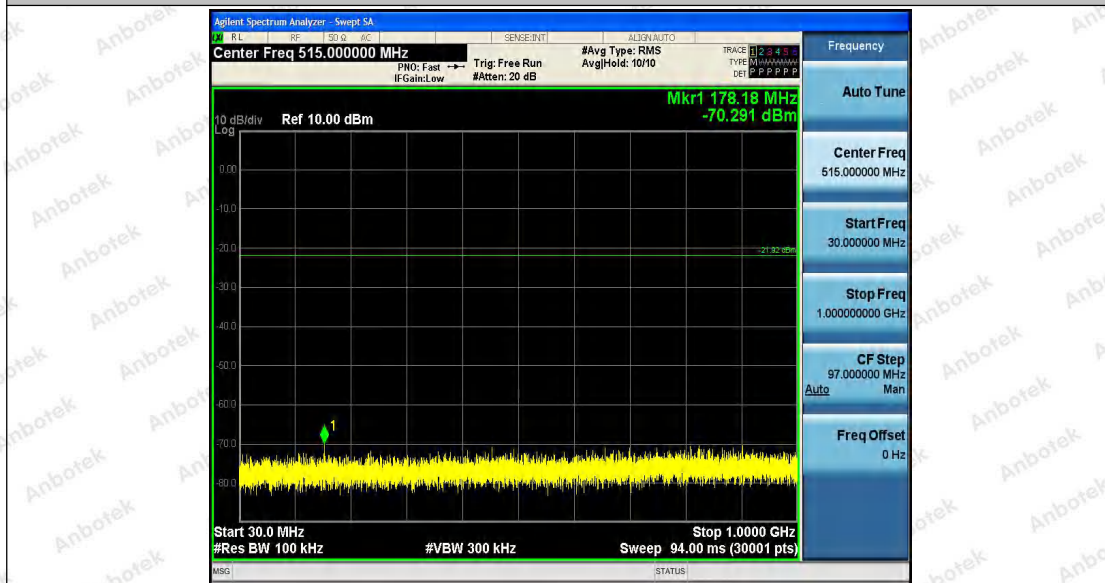
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000

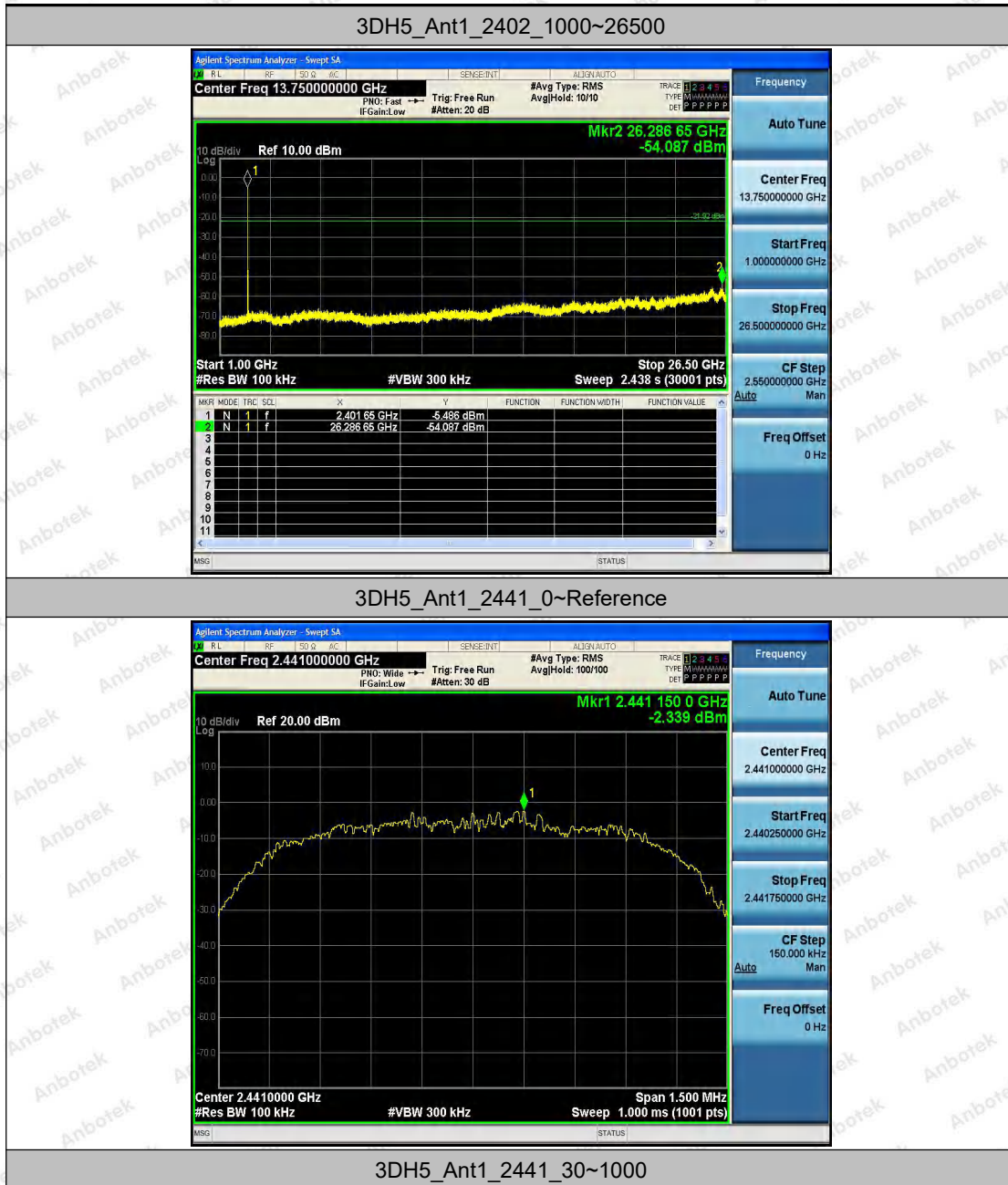


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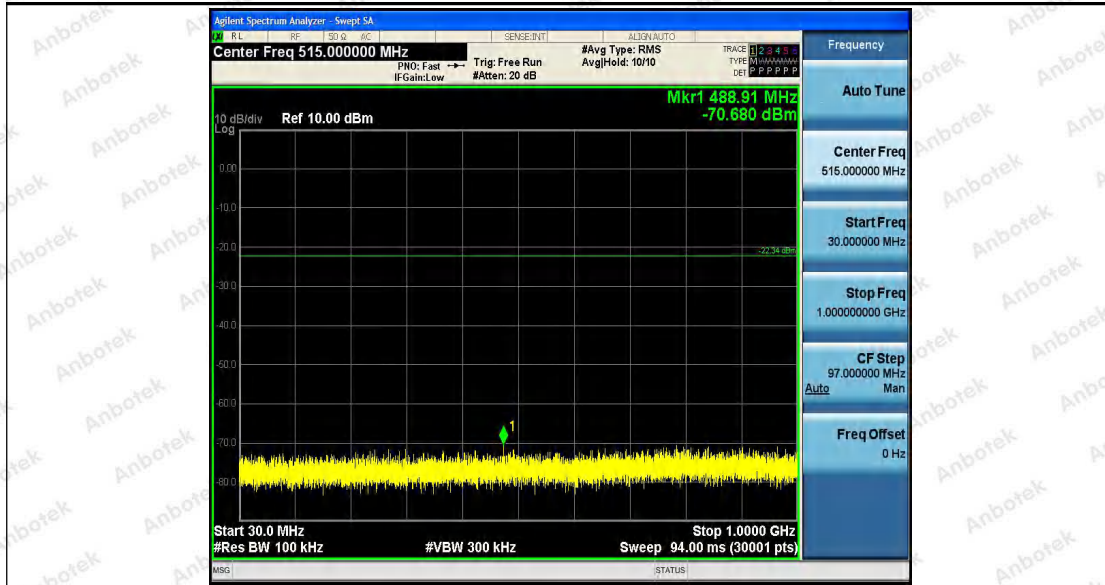


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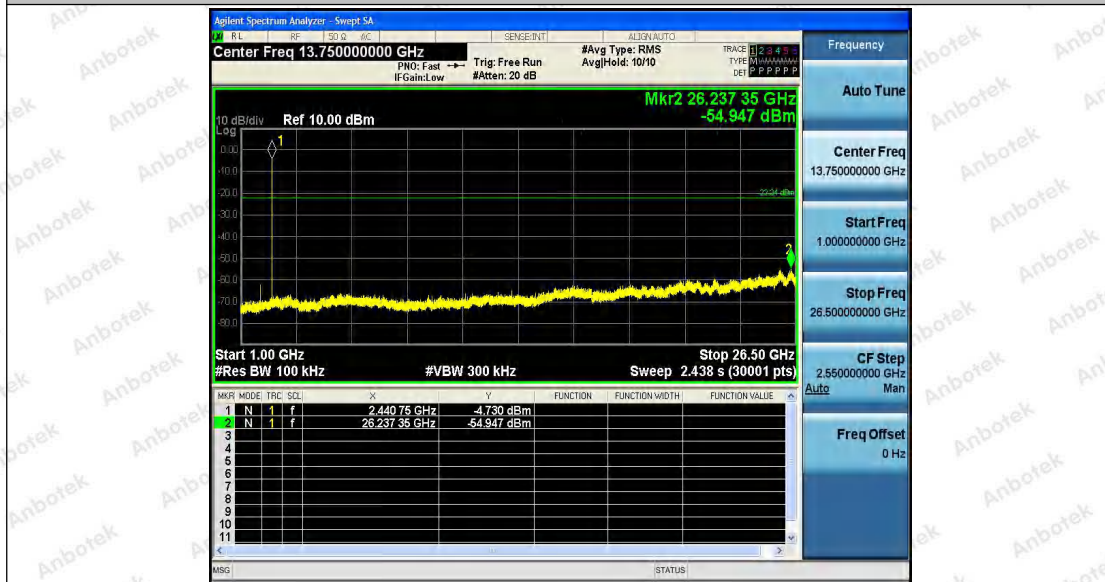
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

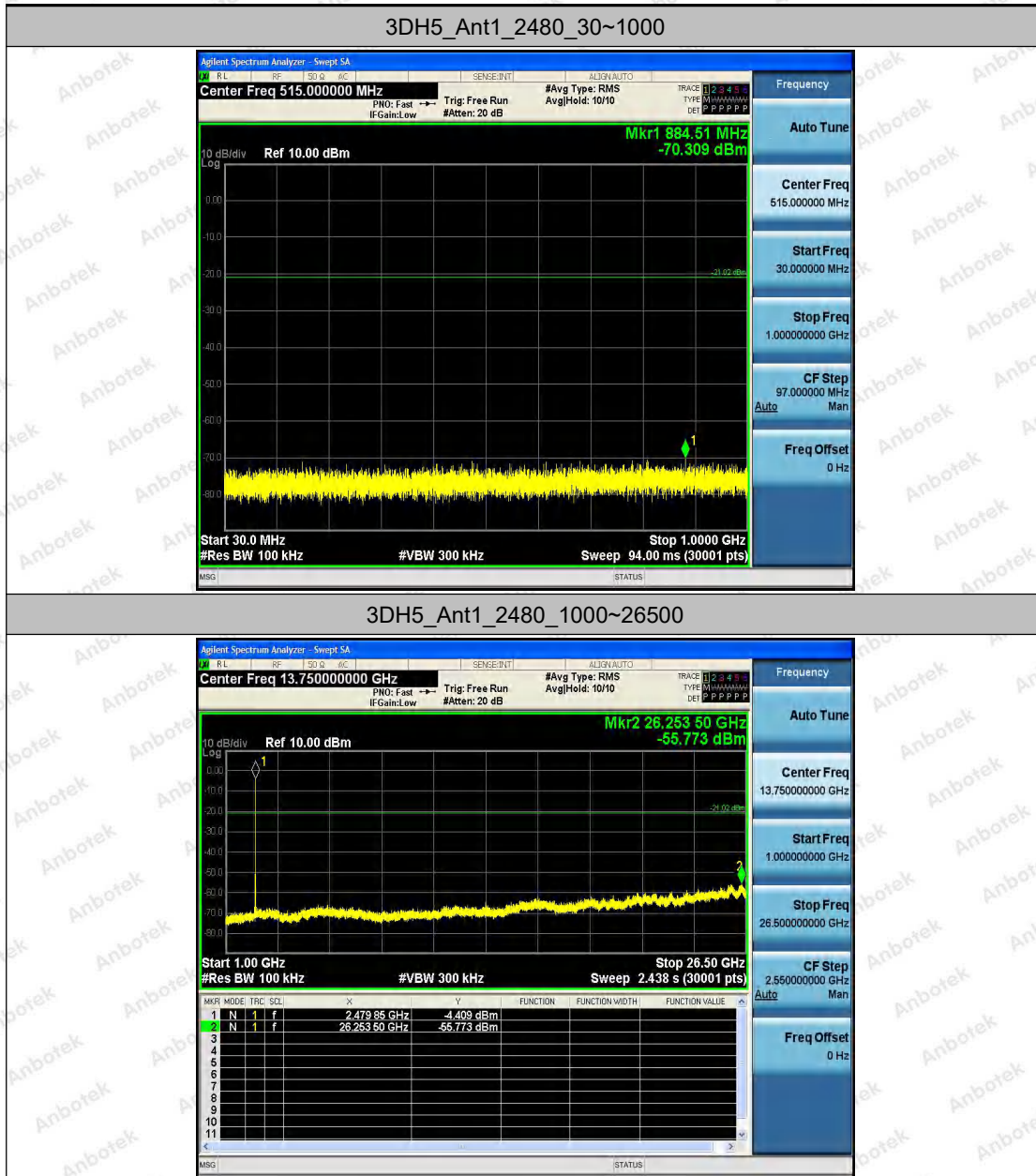


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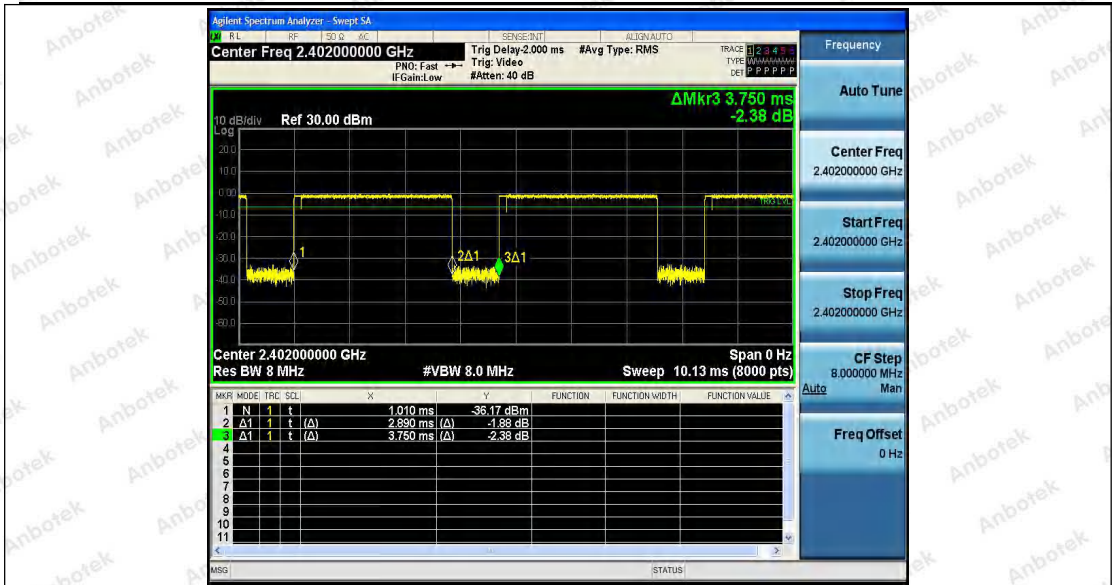
Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	X Factor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	0.7653	76.53	1.16	---	PASS
2DH5	Ant1	2402	2.89	3.75	0.7707	77.07	1.13	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.7707	77.07	1.13	---	PASS

Test Graphs





---End---