

Appendix Test Data

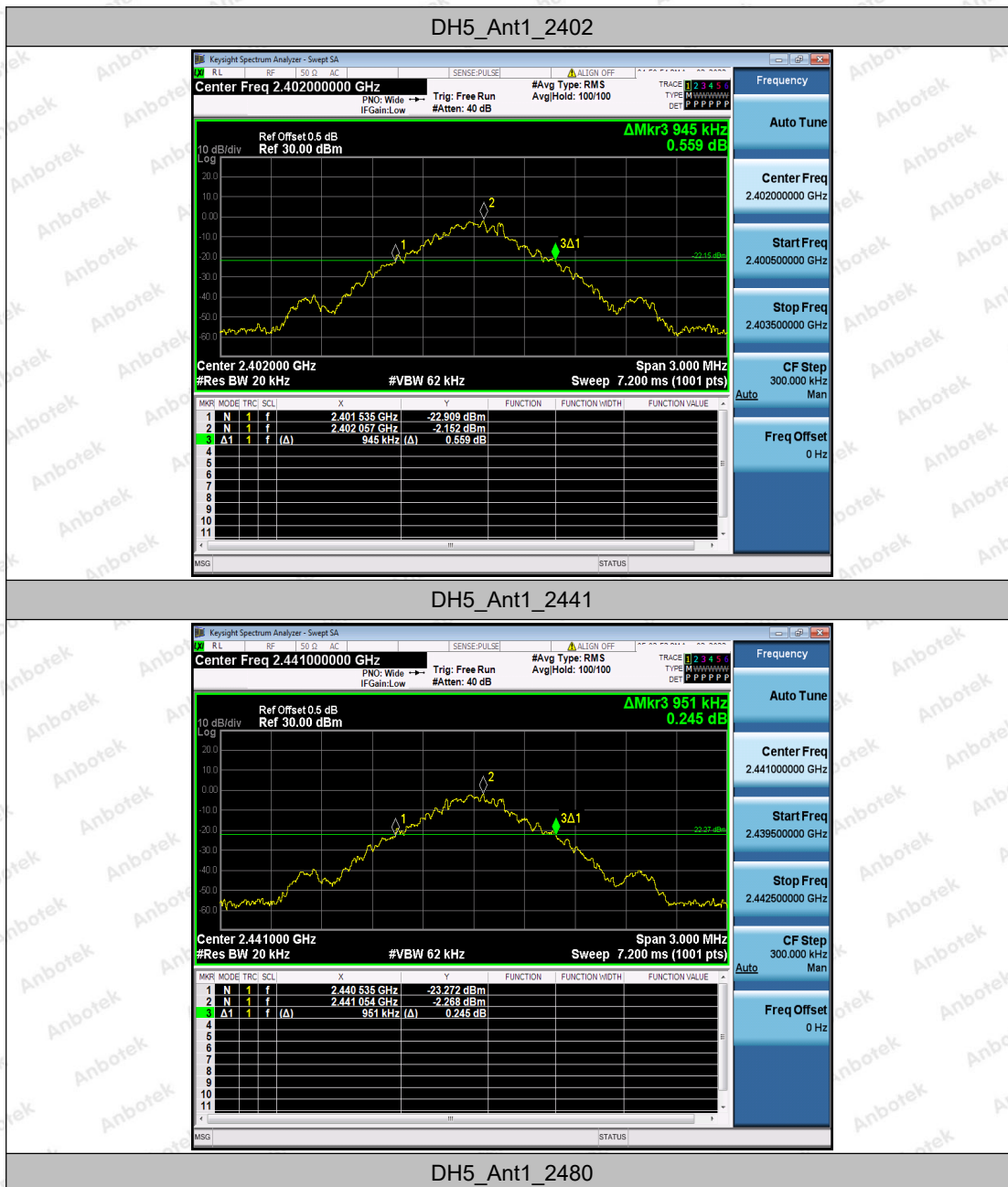
Report No.:	18220WC20174101	Test Sample No.:	1-2-2
Start Test Date:	2022.8.2	Finish Test Date:	2022.8.3
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	27.3°C	Relative Humidity:	46 %
Pressure:	1012 hPa		

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.945	2401.535	2402.480	---	PASS
		2441	0.951	2440.535	2441.486	---	PASS
		2480	0.939	2479.538	2480.477	---	PASS
2DH5	Ant1	2402	1.266	2401.364	2402.630	---	PASS
		2441	1.326	2440.334	2441.660	---	PASS
		2480	1.329	2479.334	2480.663	---	PASS
3DH5	Ant1	2402	1.272	2401.352	2402.624	---	PASS
		2441	1.302	2440.346	2441.648	---	PASS
		2480	1.314	2479.343	2480.657	---	PASS

Test Graphs



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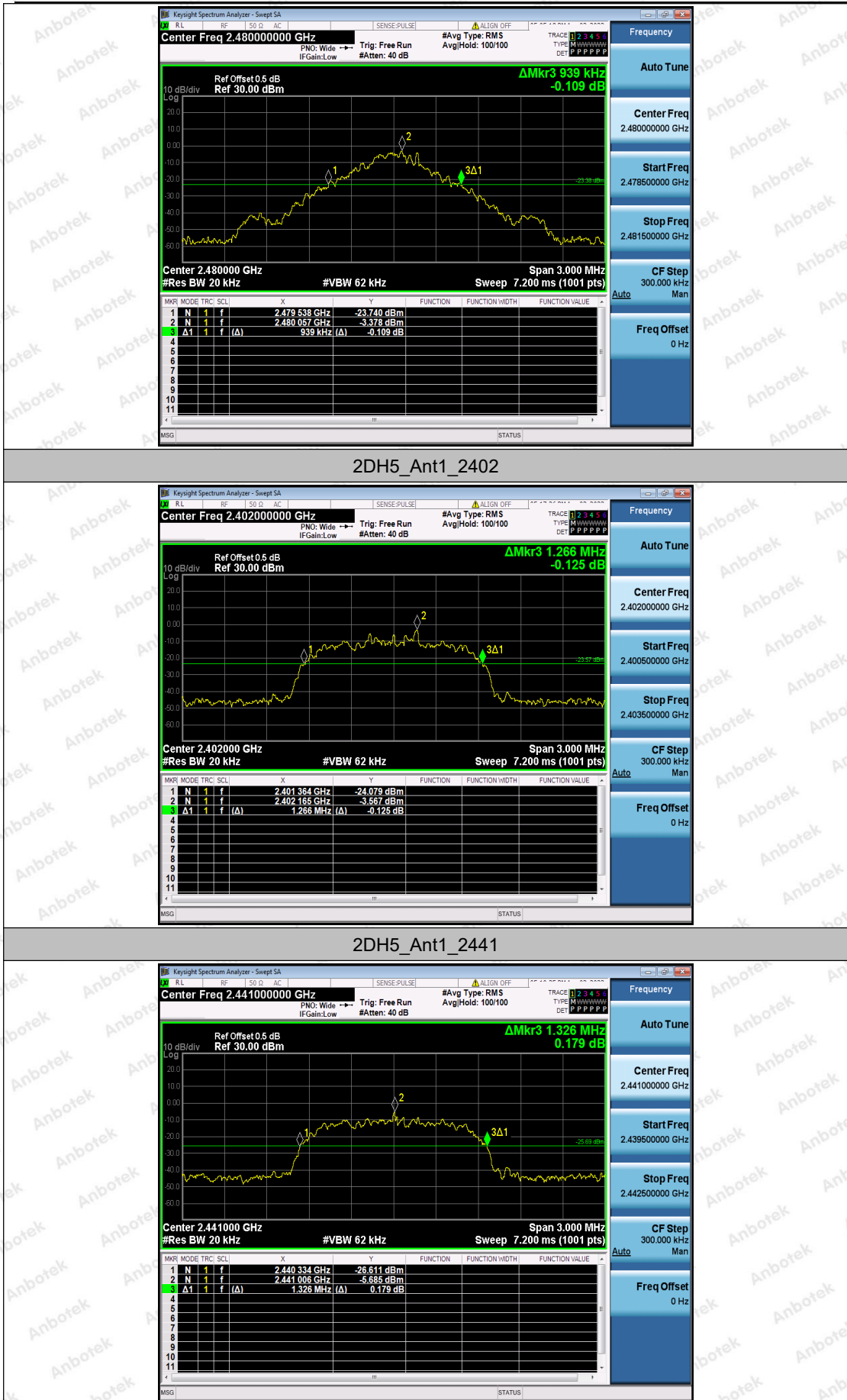
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com



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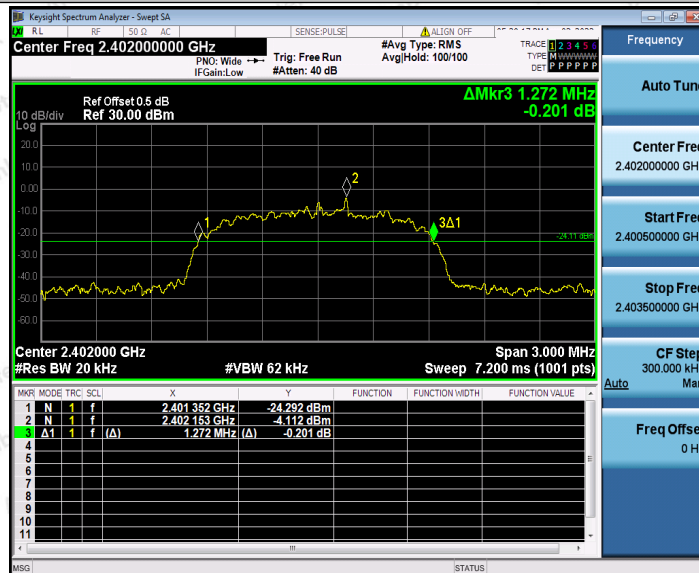
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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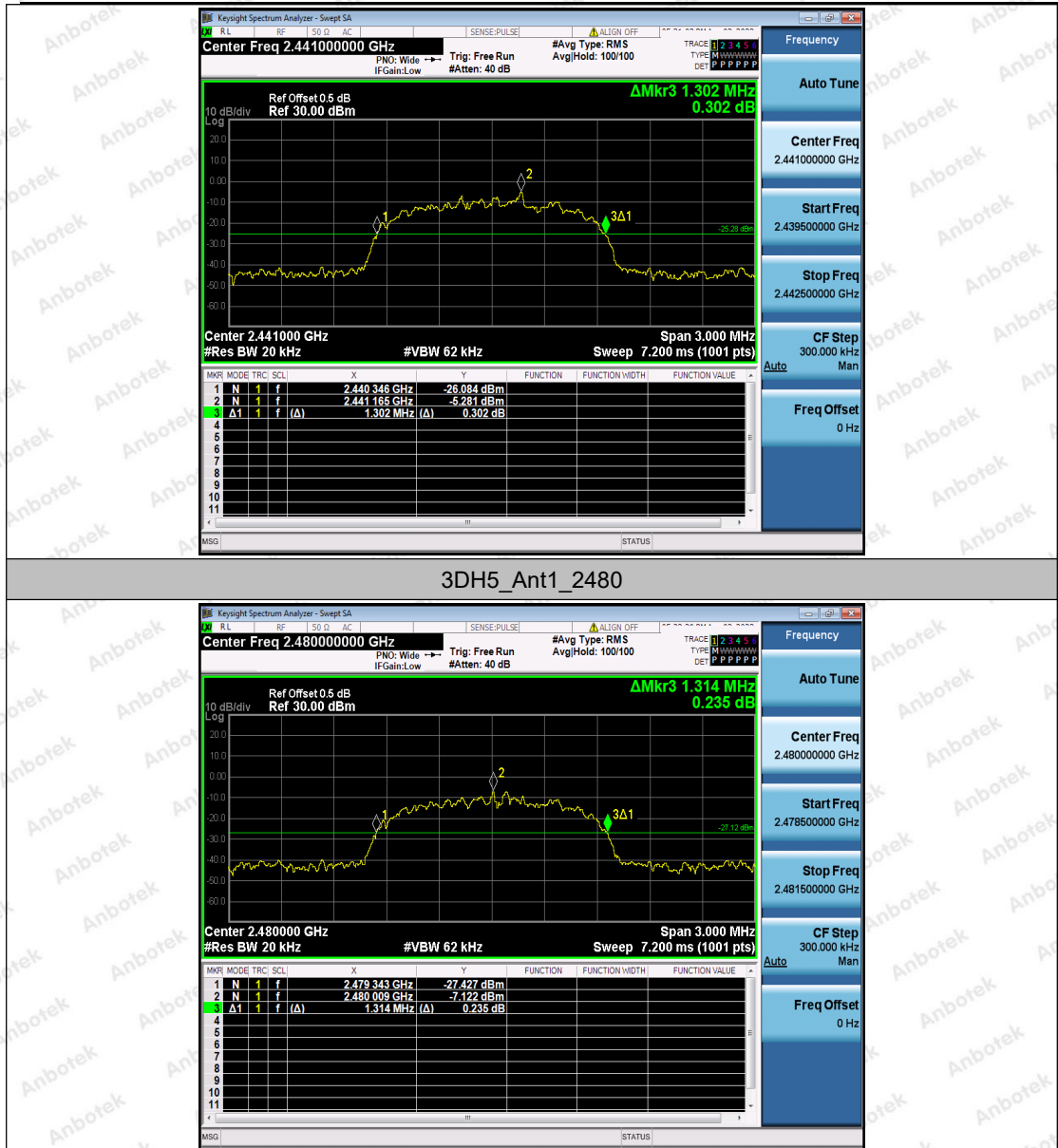
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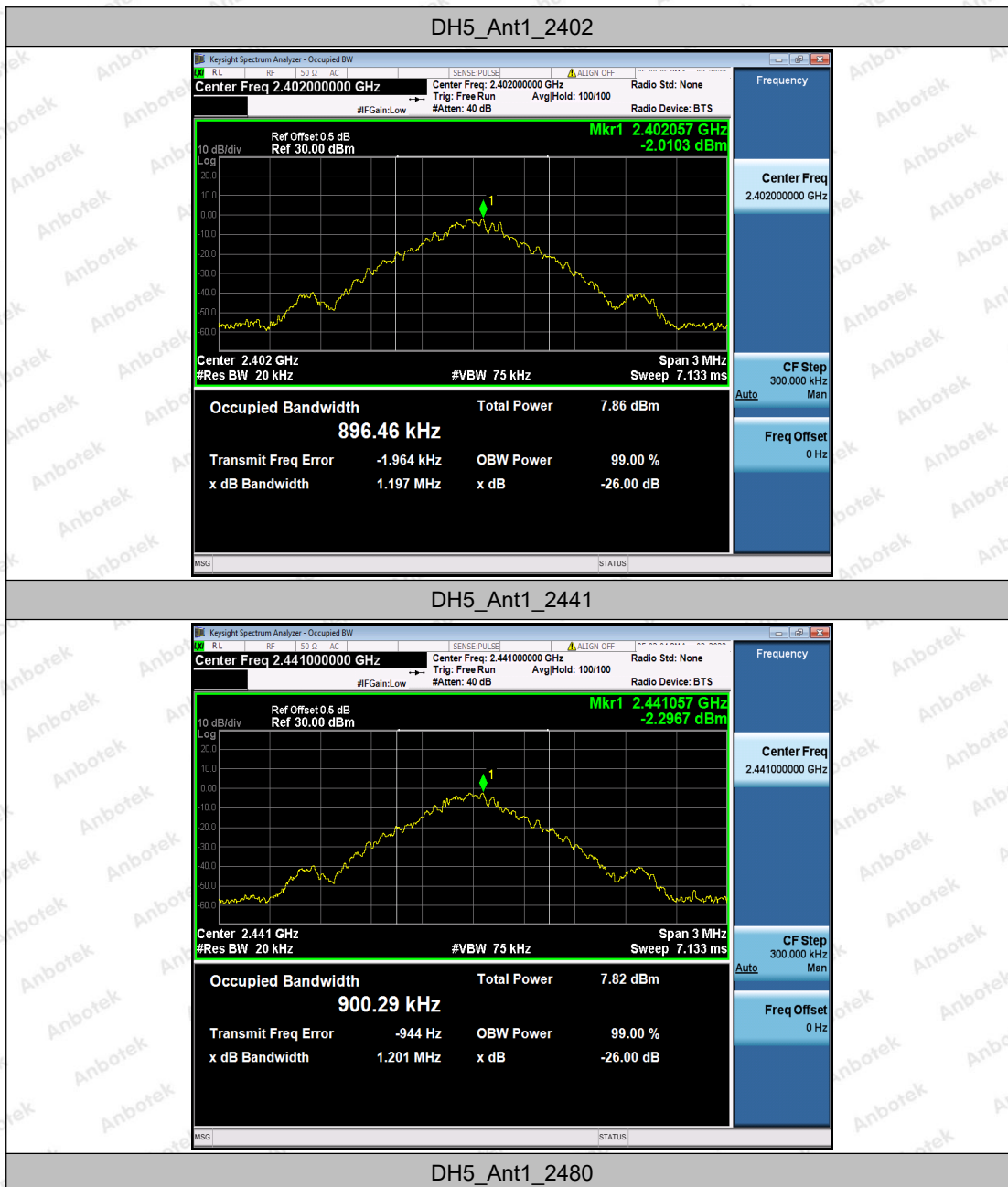
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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89646	2401.55 0	2402.446	---	PASS
		2441	0.90029	2440.54 9	2441.449	---	PASS
		2480	0.89847	2479.55 0	2480.448	---	PASS
2DH5	Ant1	2402	1.1823	2401.40 5	2402.587	---	PASS
		2441	1.1922	2440.40 2	2441.594	---	PASS
		2480	1.1943	2479.40 0	2480.595	---	PASS
3DH5	Ant1	2402	1.2022	2401.39 0	2402.593	---	PASS
		2441	1.2020	2440.39 0	2441.592	---	PASS
		2480	1.2108	2479.38 4	2480.595	---	PASS

Test Graphs



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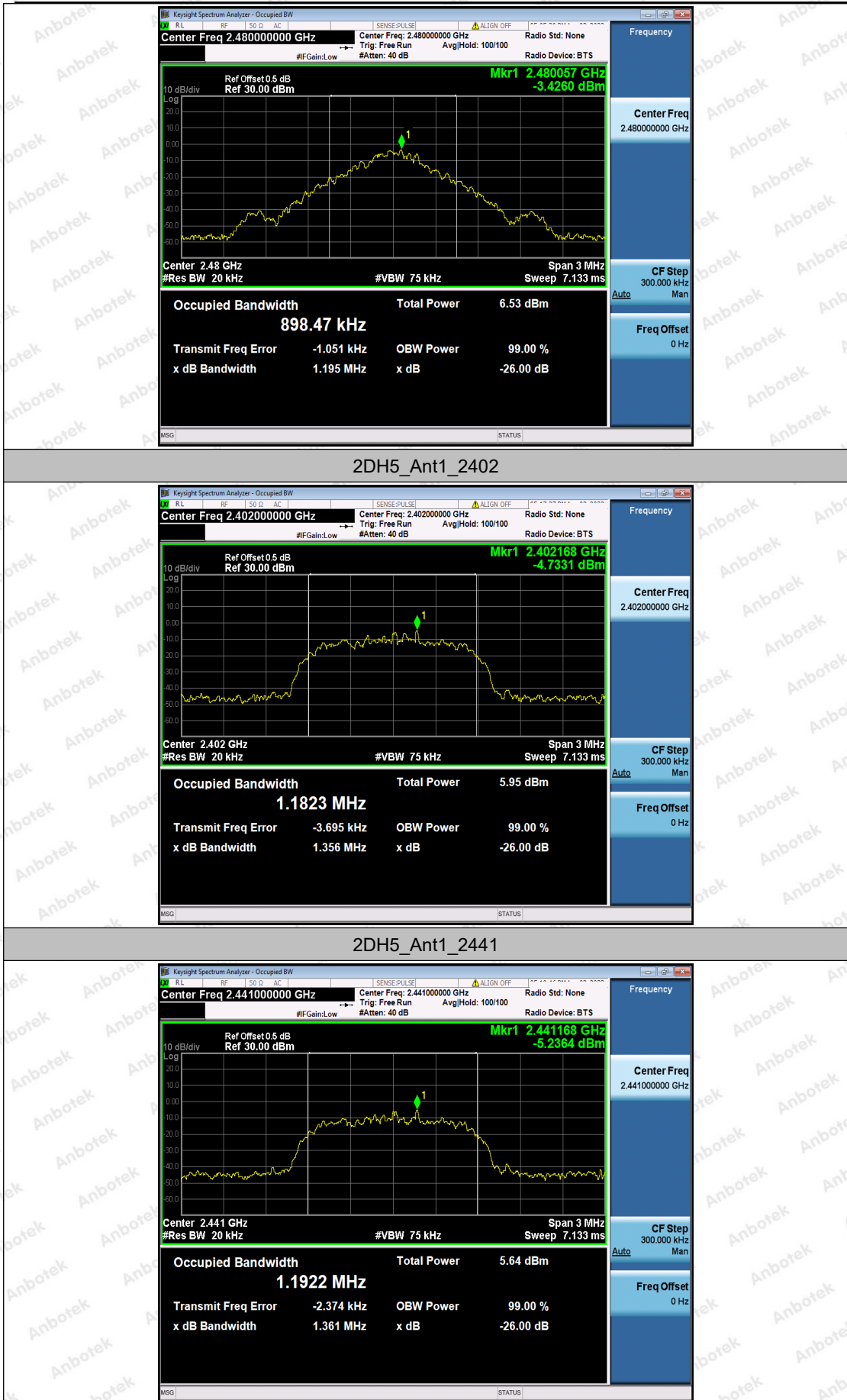
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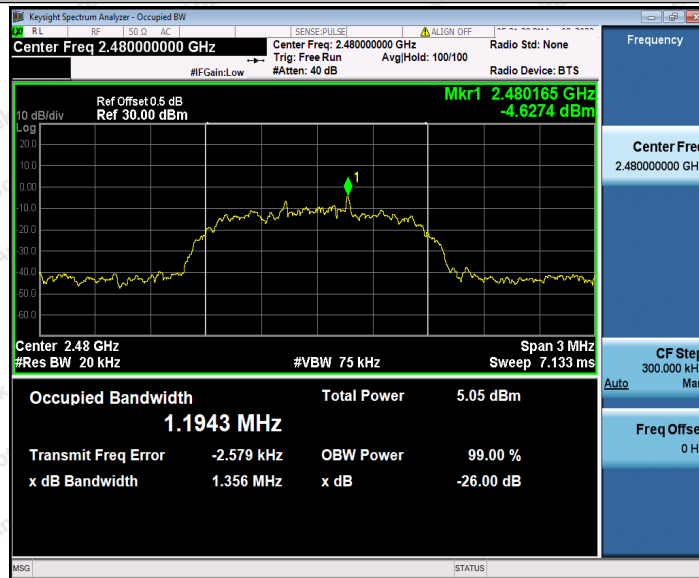
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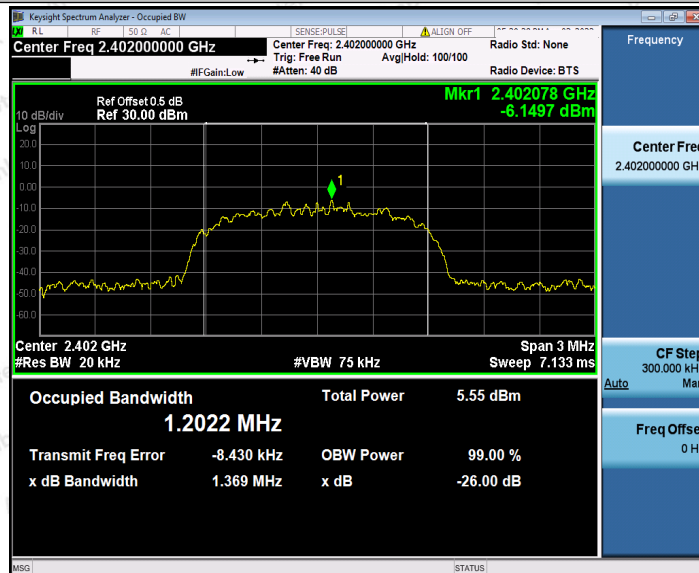
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2DH5_Ant1_2480



3DH5_Ant1_2402



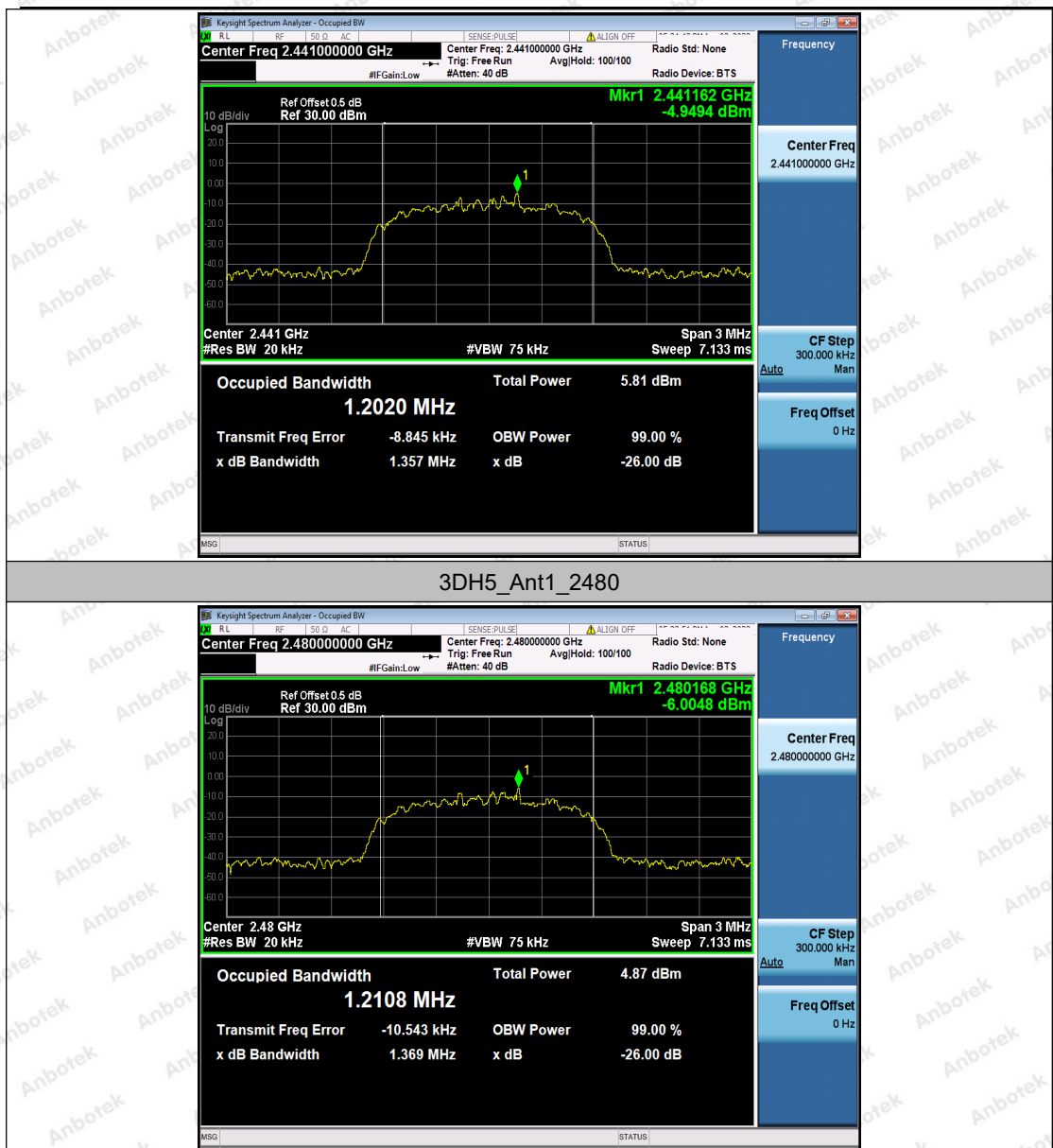
3DH5_Ant1_2441

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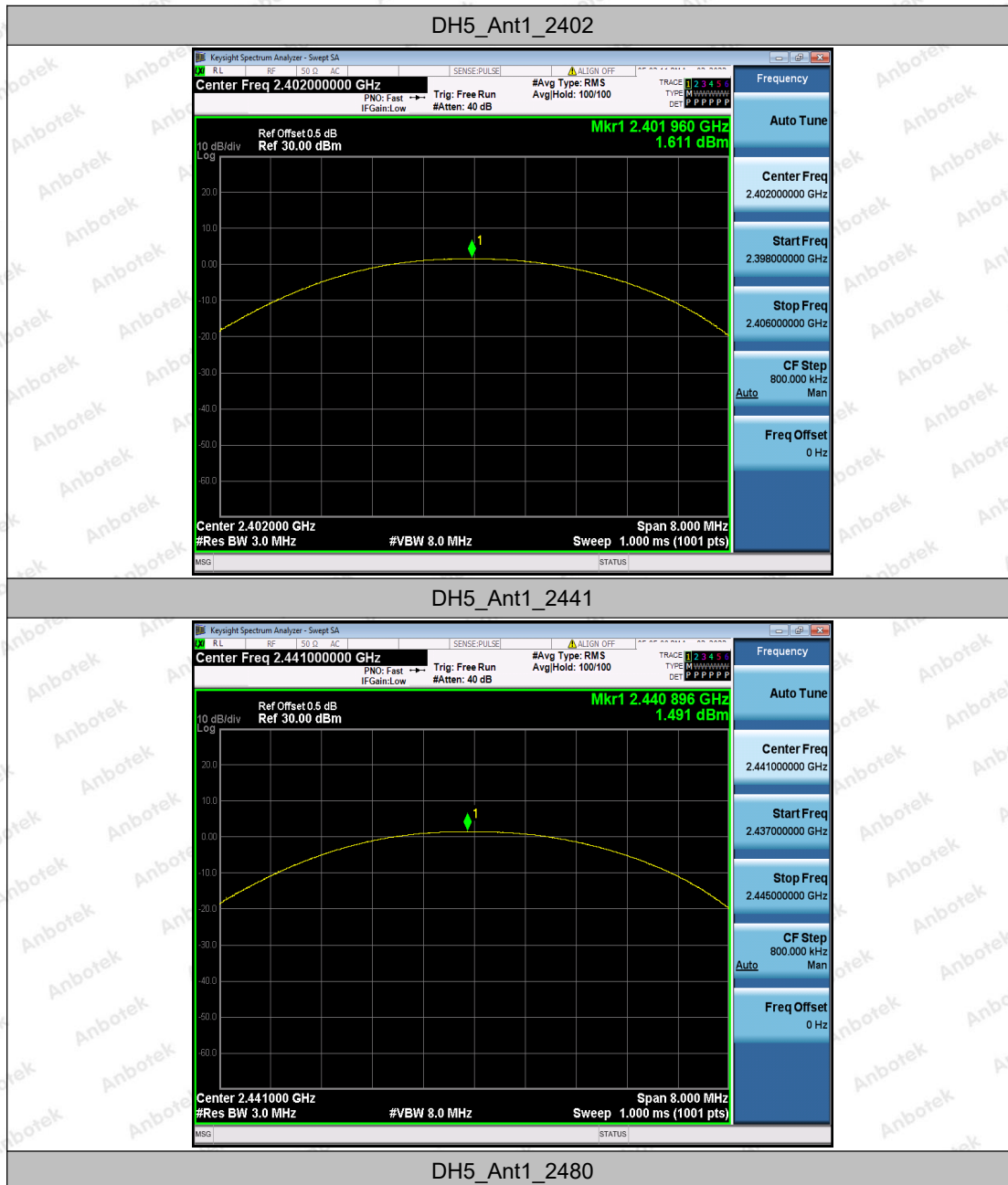
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.61	≤20.97	PASS
		2441	1.49	≤20.97	PASS
		2480	0.14	≤20.97	PASS
2DH5	Ant1	2402	0.8	≤20.97	PASS
		2441	0.76	≤20.97	PASS
		2480	-0.47	≤20.97	PASS
3DH5	Ant1	2402	0.92	≤20.97	PASS
		2441	0.85	≤20.97	PASS
		2480	-0.39	≤20.97	PASS

Test Graphs

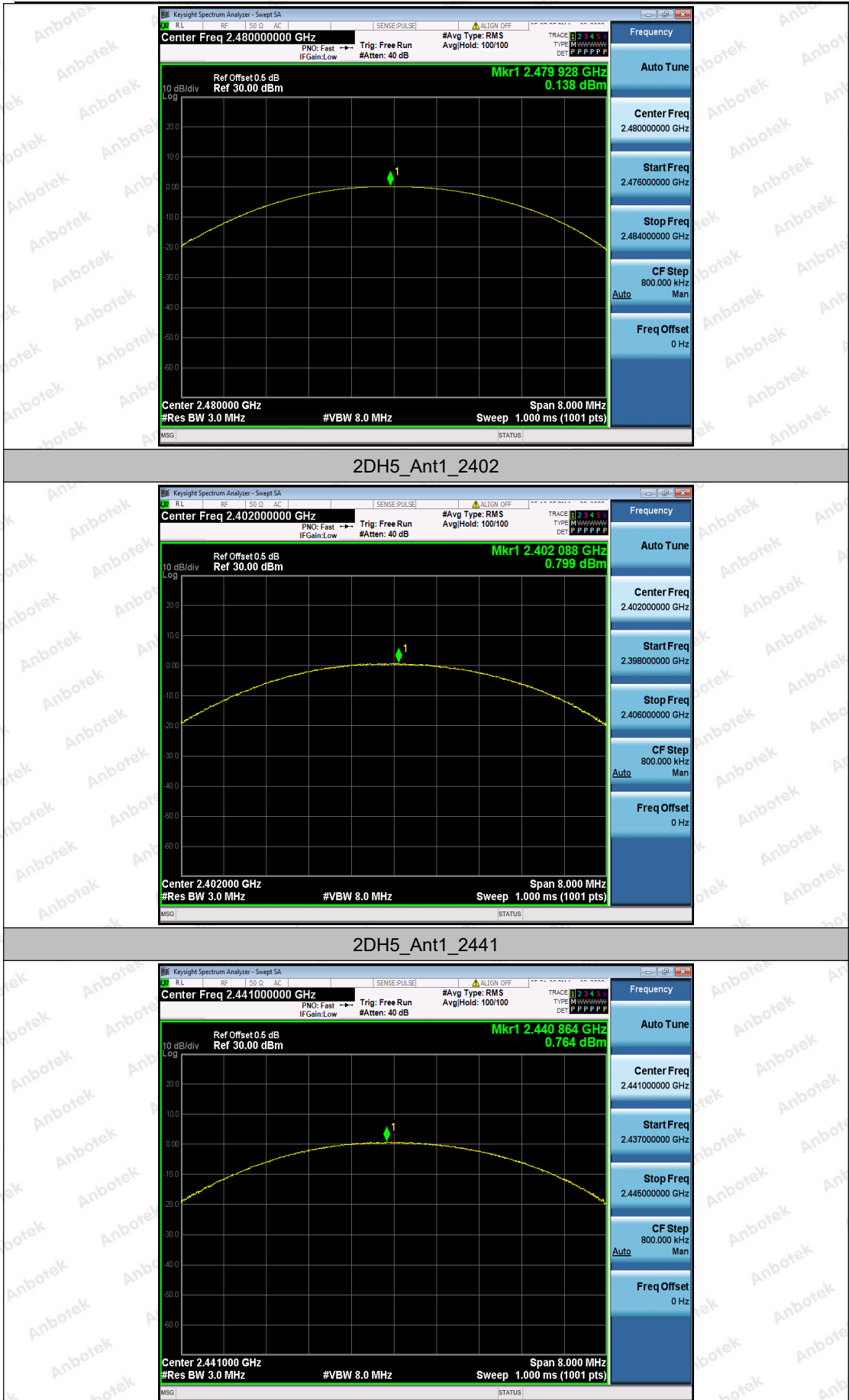


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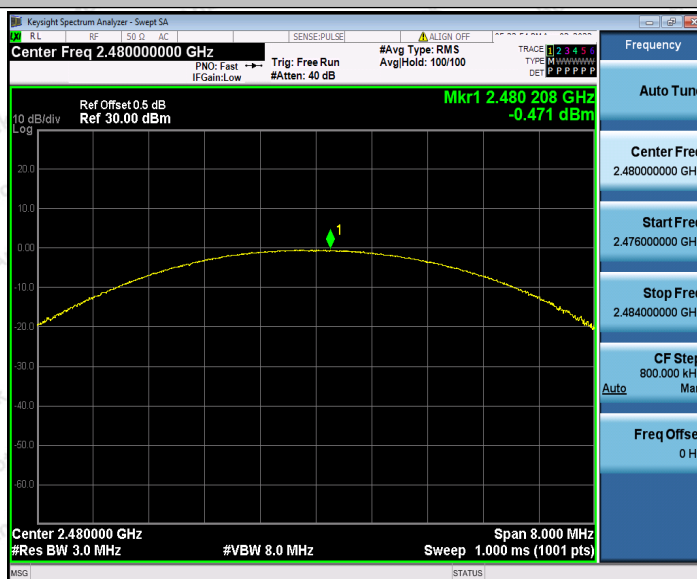
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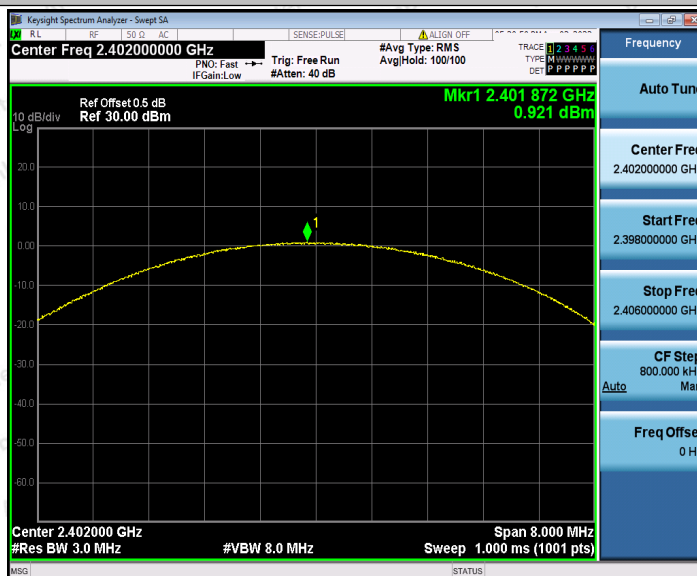
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2DH5_Ant1_2480



3DH5_Ant1_2402



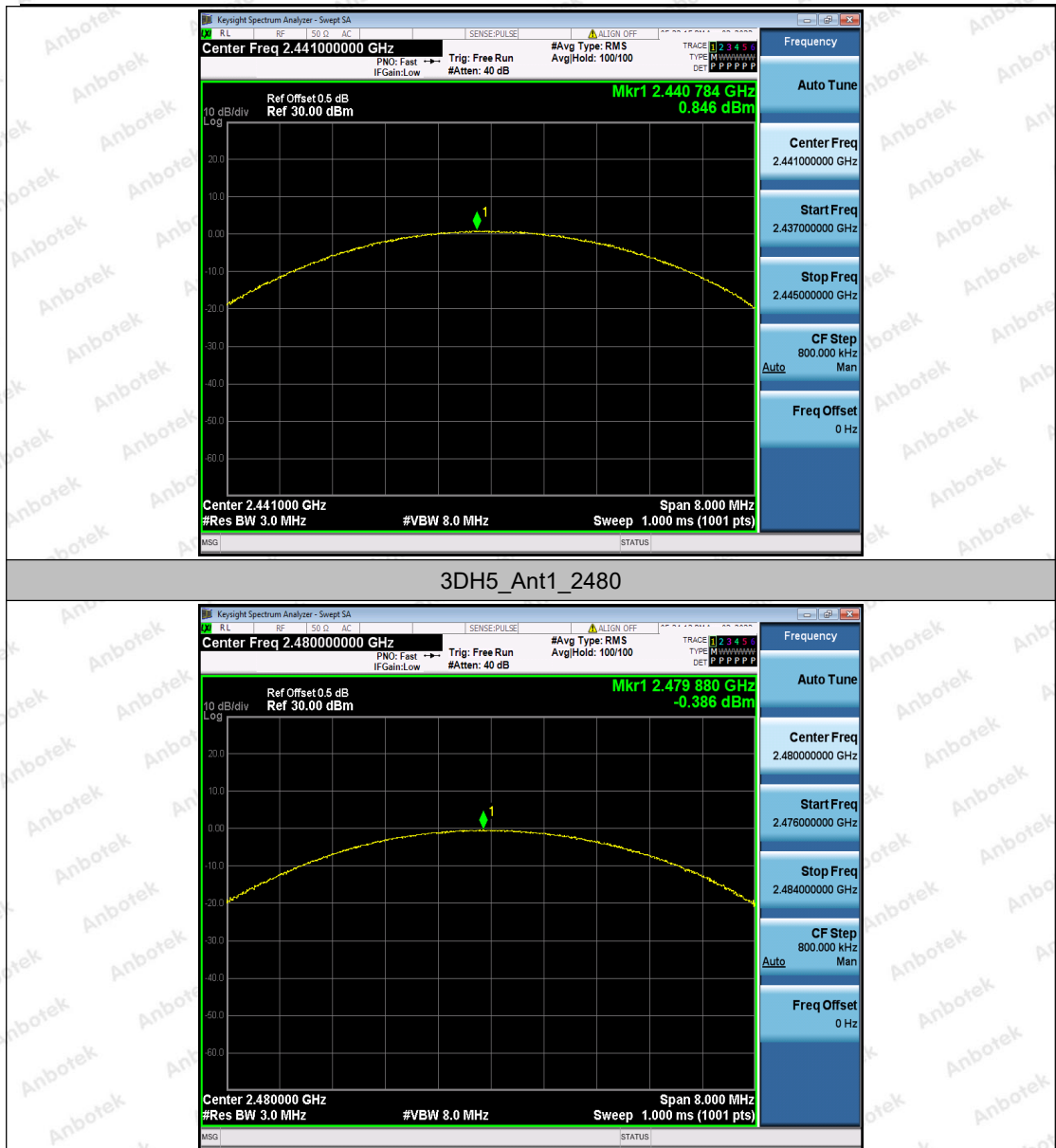
3DH5_Ant1_2441

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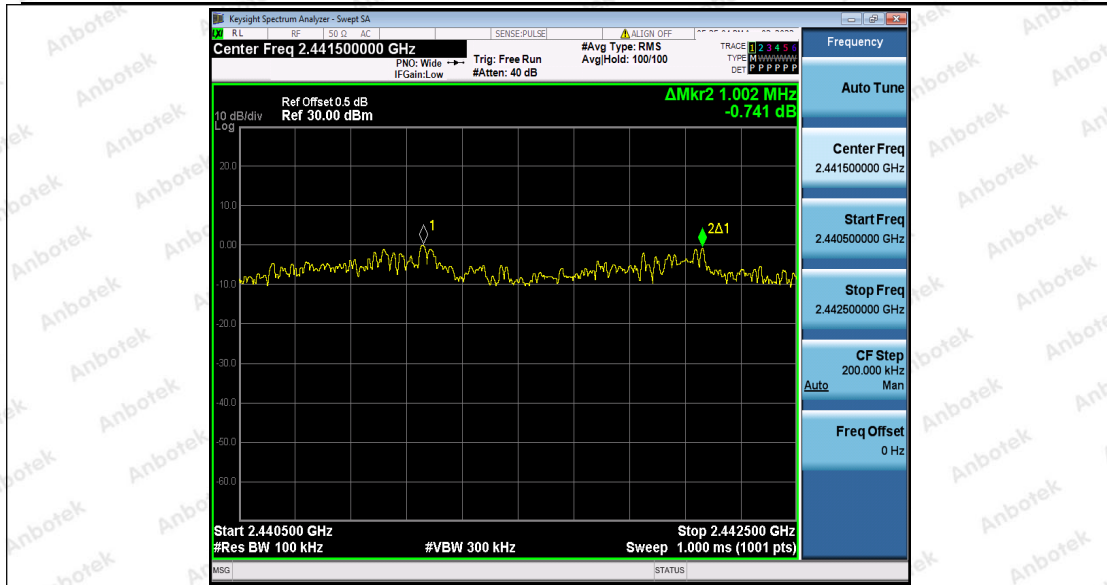
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.152	≥ 0.951	PASS
2DH5	Ant1	Hop	0.9	≥ 0.886	PASS
3DH5	Ant1	Hop	1.002	≥ 0.876	PASS

Test Graphs





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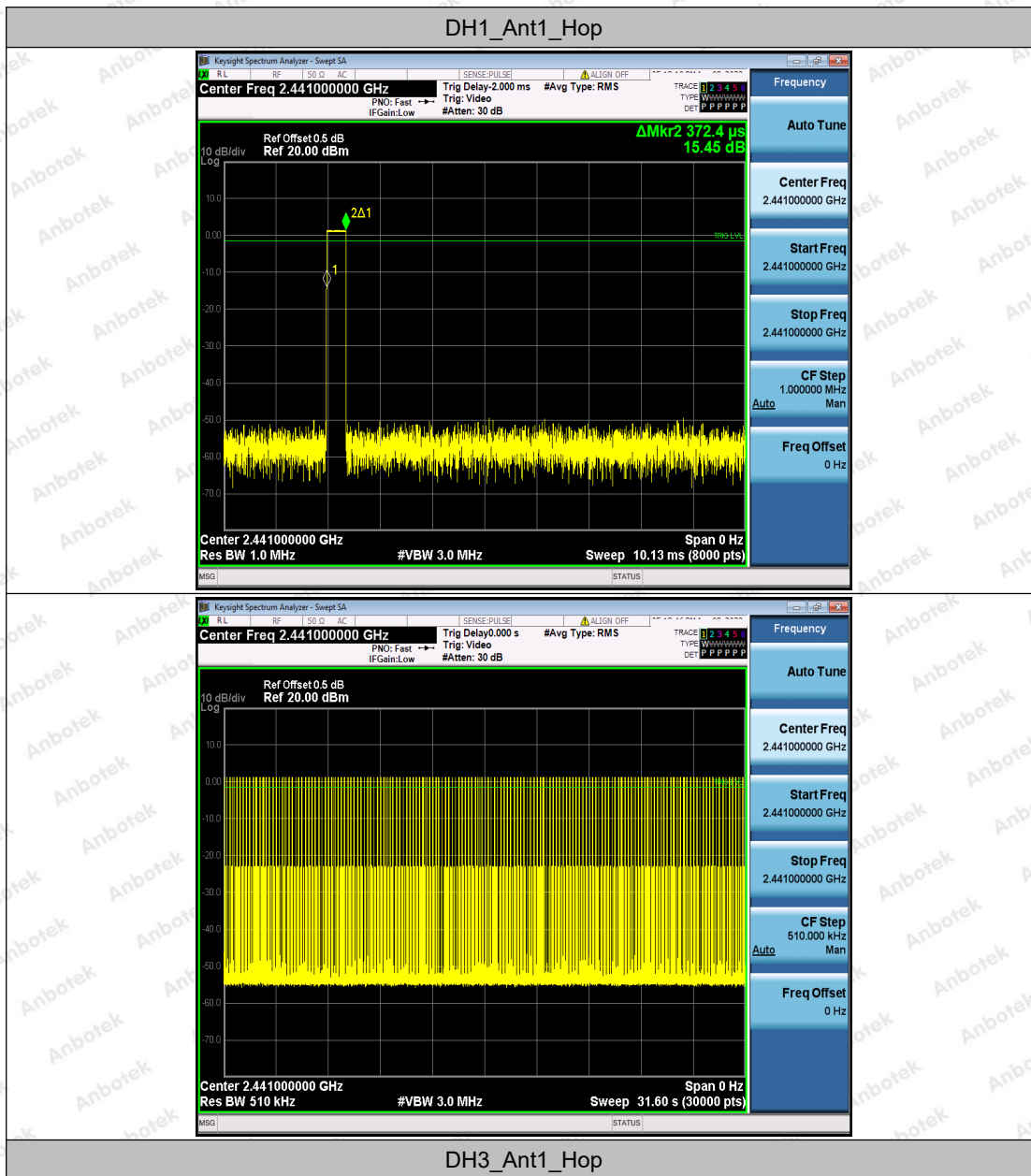
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Appendix E: Time of occupancy

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	159	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.88	99	0.285	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	159	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.88	102	0.294	≤0.4	PASS
3DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	159	0.259	≤0.4	PASS
3DH5	Ant1	Hop	2.88	111	0.32	≤0.4	PASS

Test Graphs



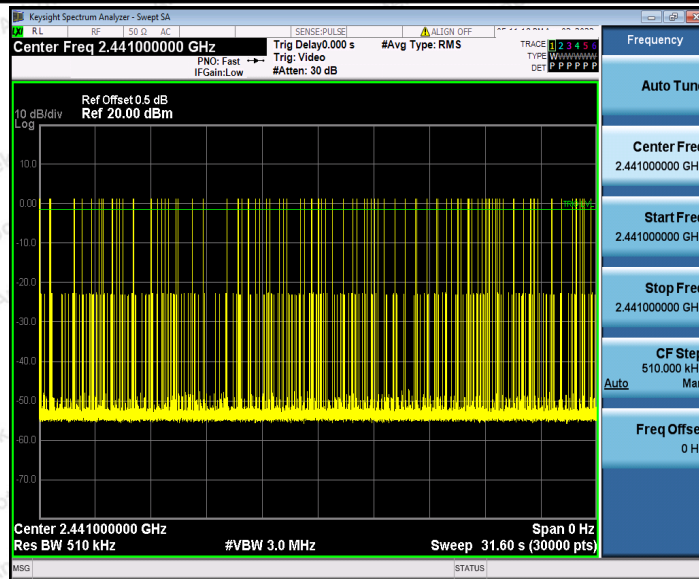


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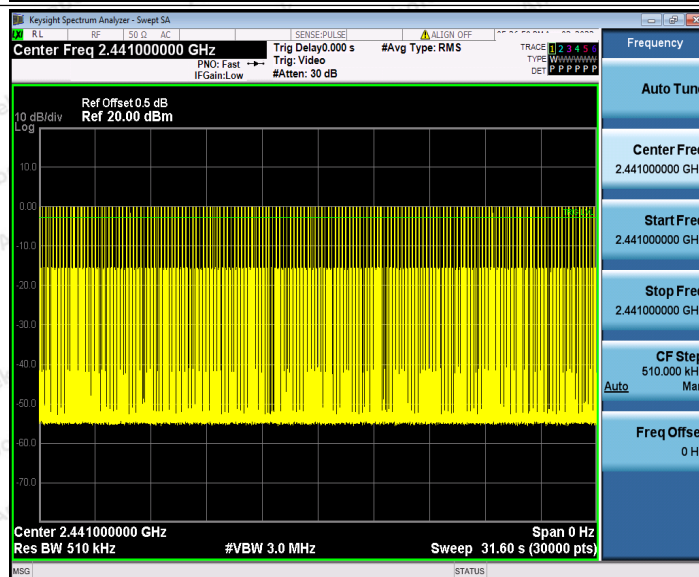
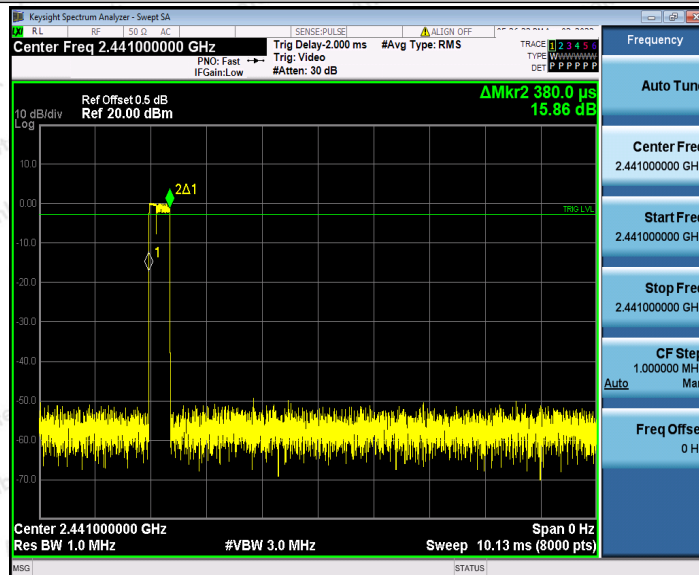
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2DH1_Ant1_Hop



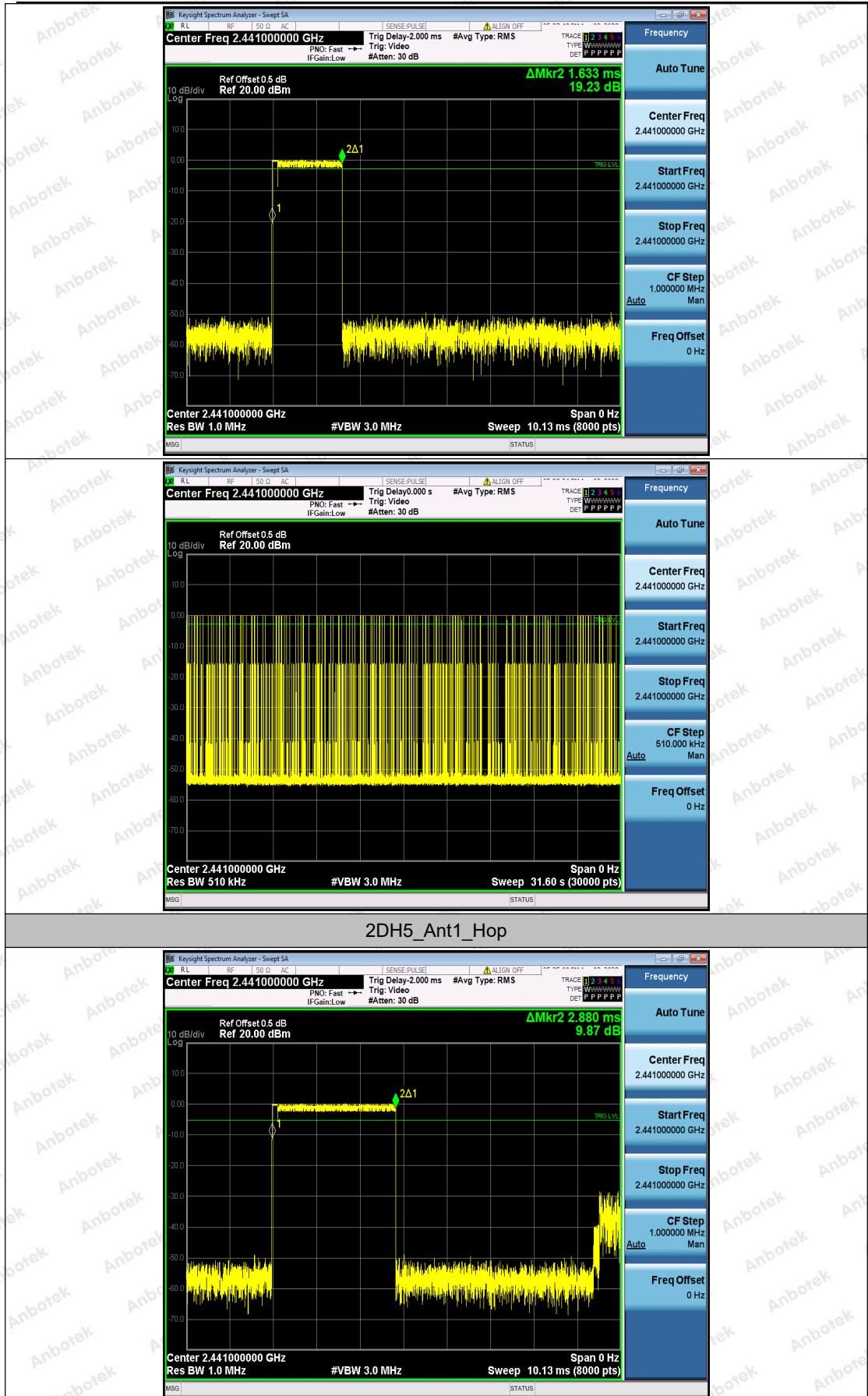
2DH3_Ant1_Hop

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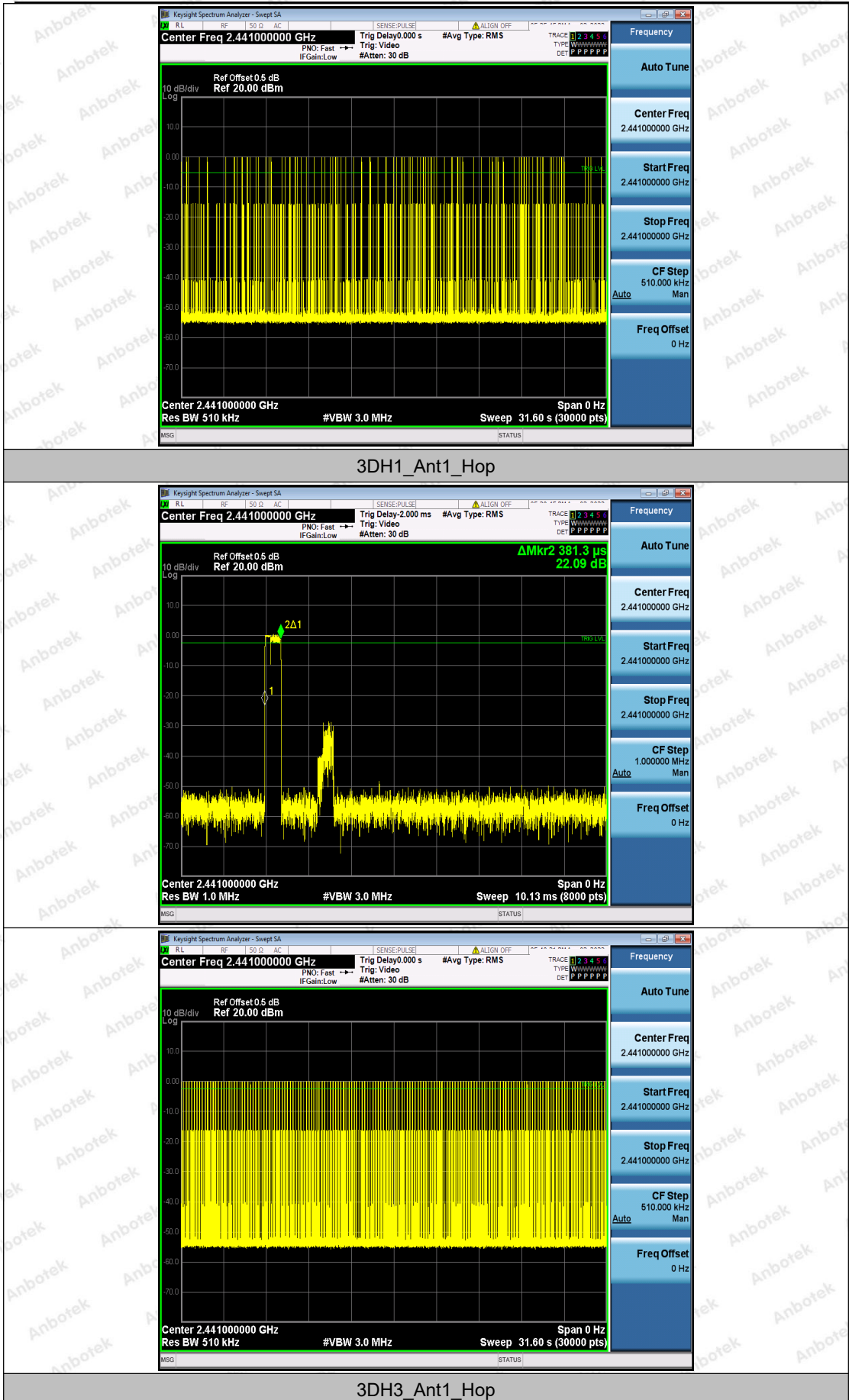
2DH5_Ant1_Hop

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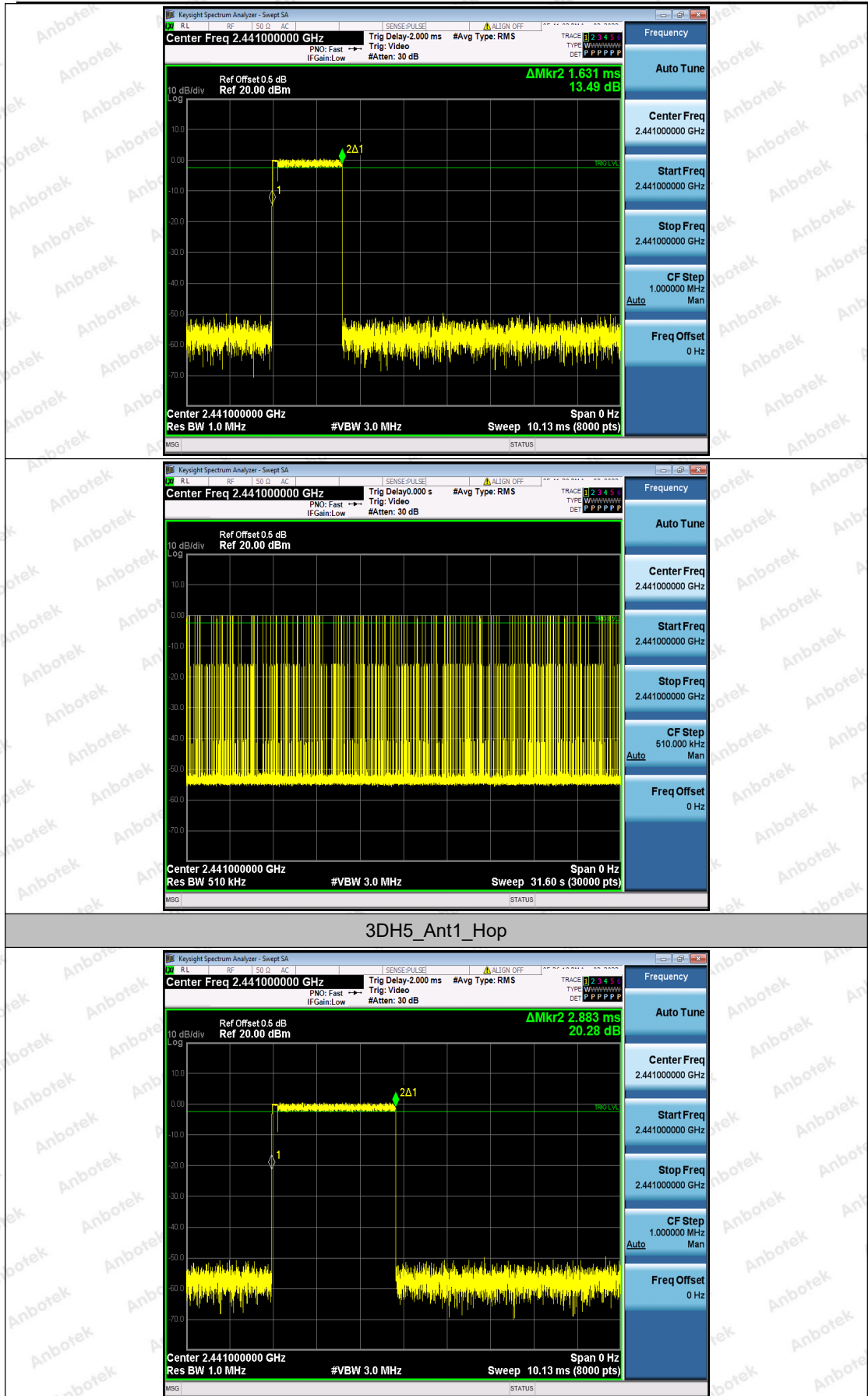


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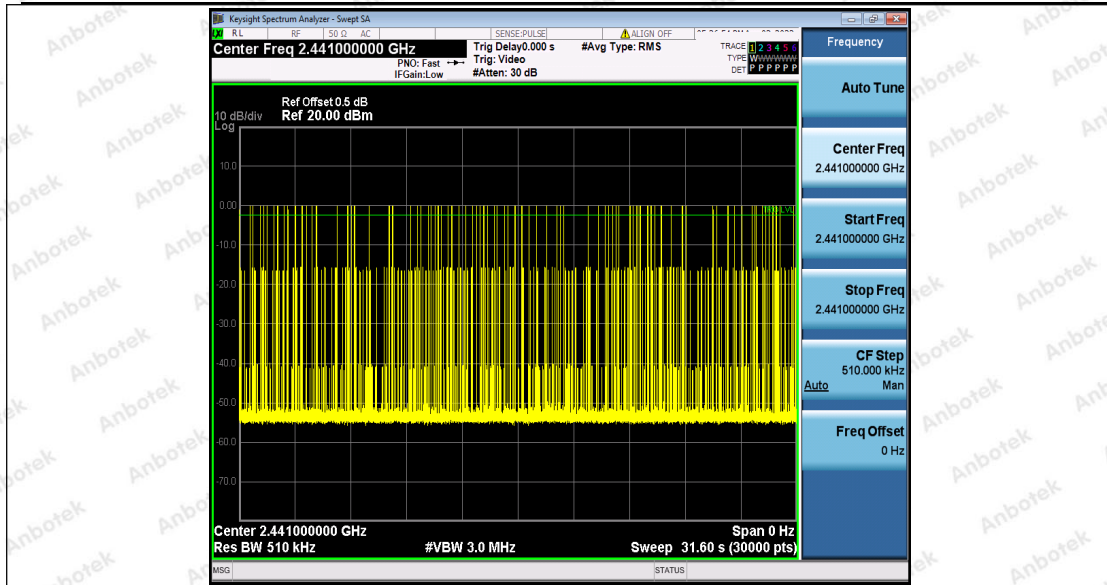
3DH5_Ant1_Hop

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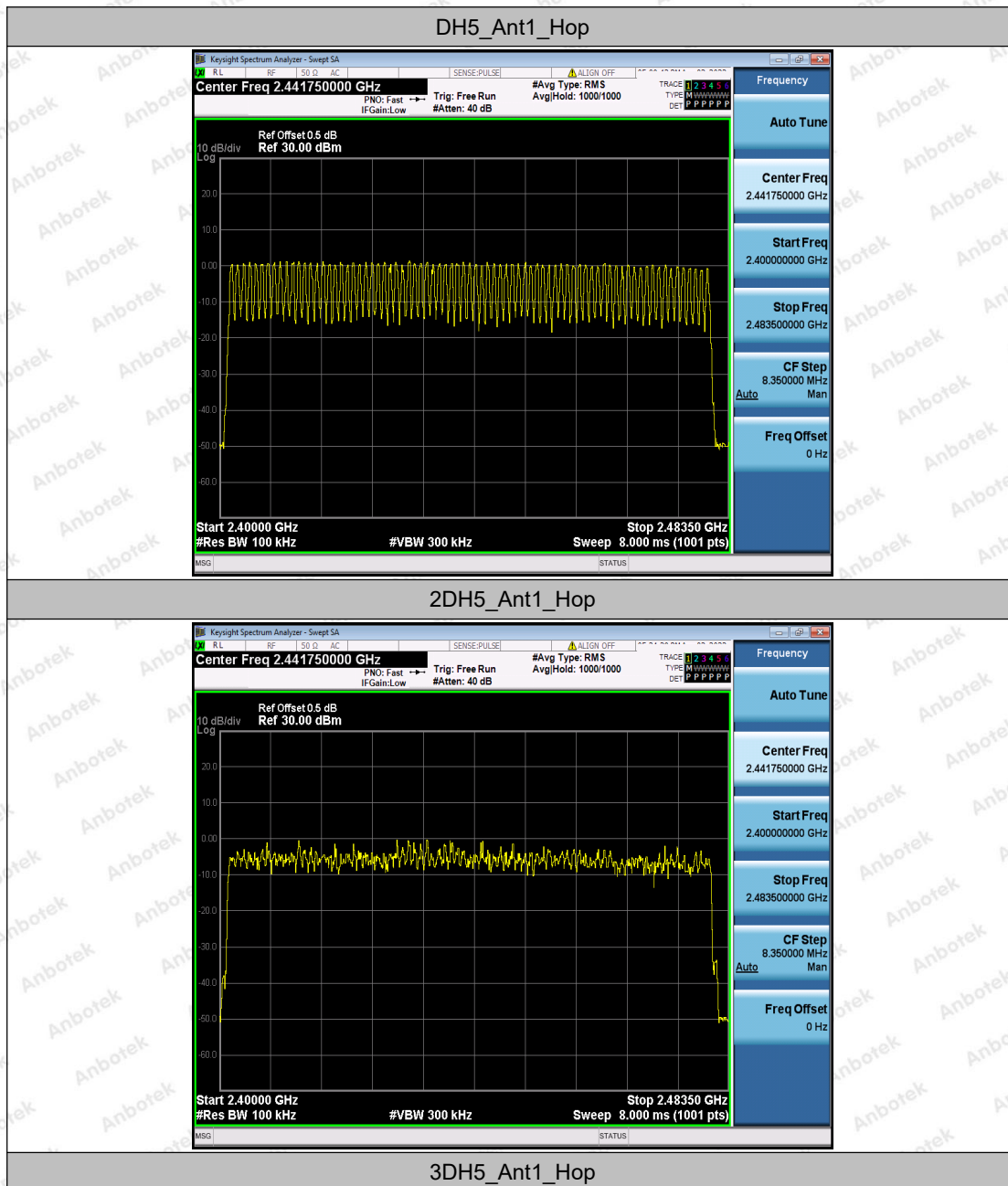
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Appendix F: Number of hopping channels

Test Result

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

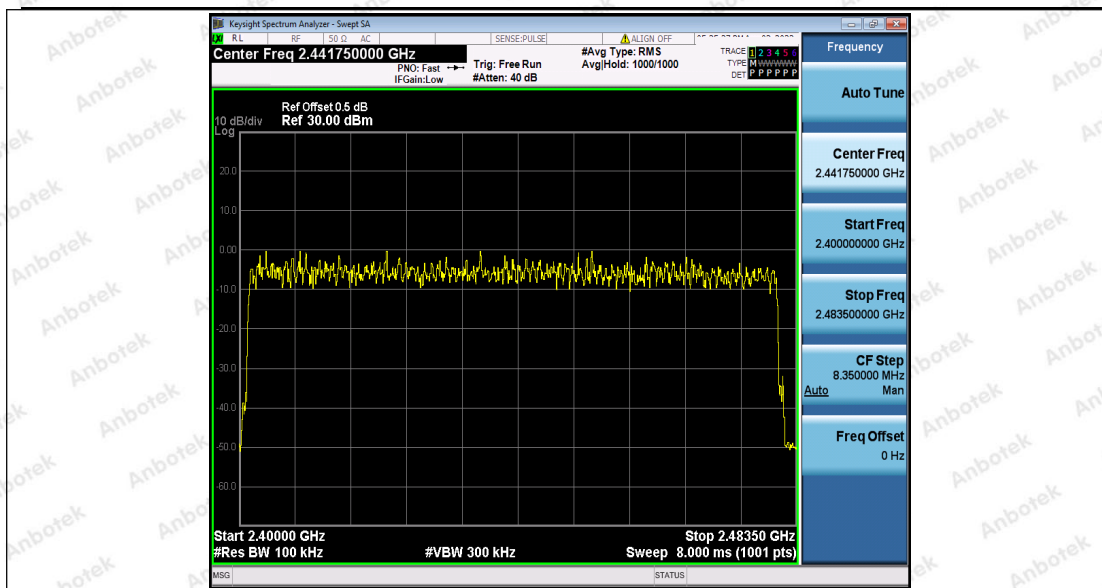


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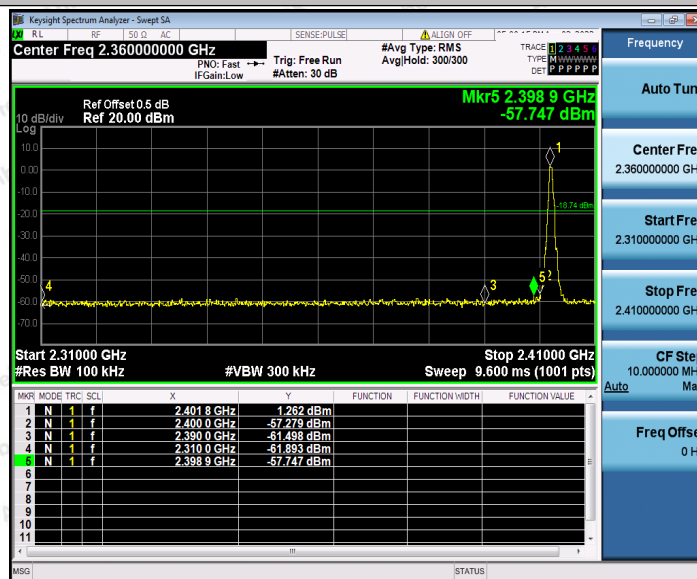
Appendix G: Band edge measurements

Test Result

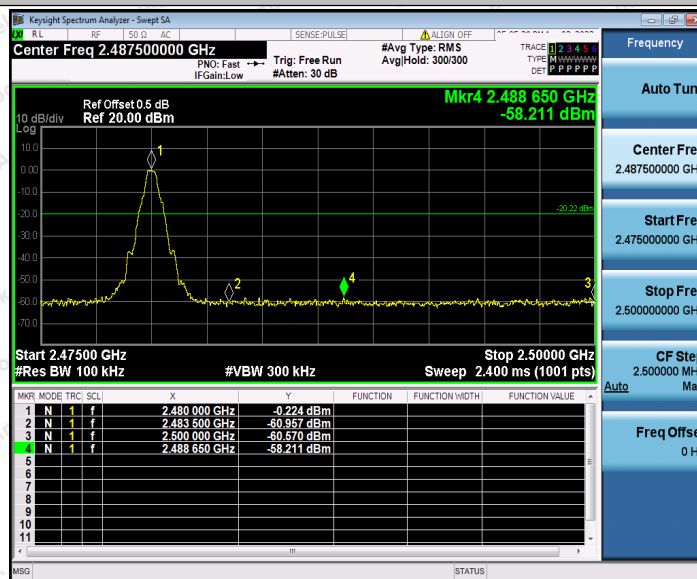
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.26	-57.75	≤-18.74	PASS
		High	2480	-0.22	-58.21	≤-20.22	PASS
		Low	Hop	1.07	-58.18	≤-18.93	PASS
		High	Hop	-0.10	-59.54	≤-20.1	PASS
2DH5	Ant1	Low	2402	-0.19	-57.08	≤-20.19	PASS
		High	2480	-1.45	-57.51	≤-21.45	PASS
		Low	Hop	-2.45	-57.75	≤-22.45	PASS
		High	Hop	-2.38	-60.91	≤-22.38	PASS
3DH5	Ant1	Low	2402	-0.89	-57.49	≤-20.89	PASS
		High	2480	-1.13	-56.92	≤-21.13	PASS
		Low	Hop	-3.50	-58.06	≤-23.5	PASS
		High	Hop	-1.07	-60.68	≤-21.07	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop

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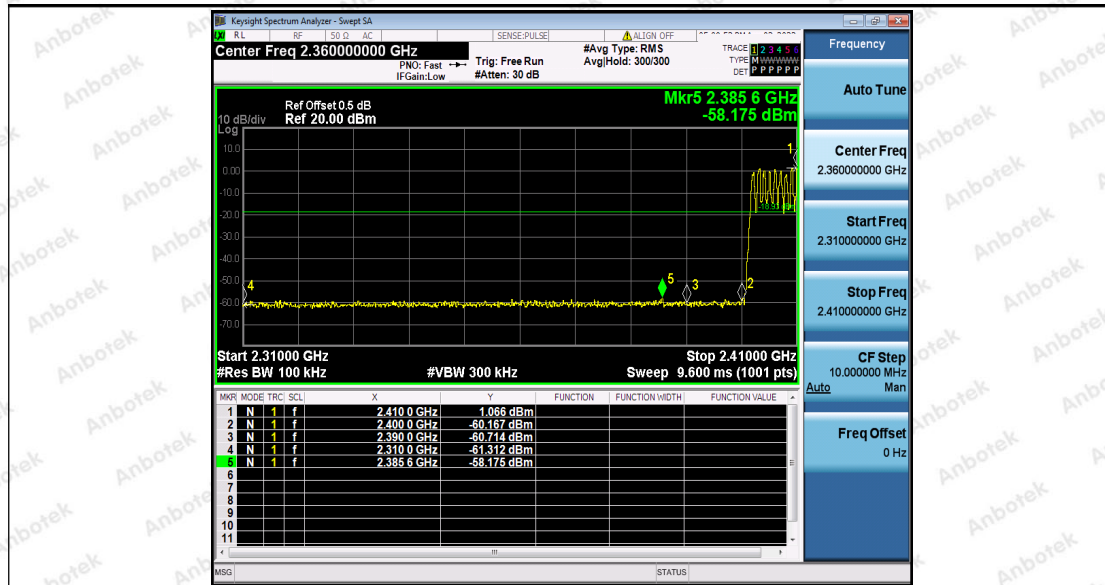
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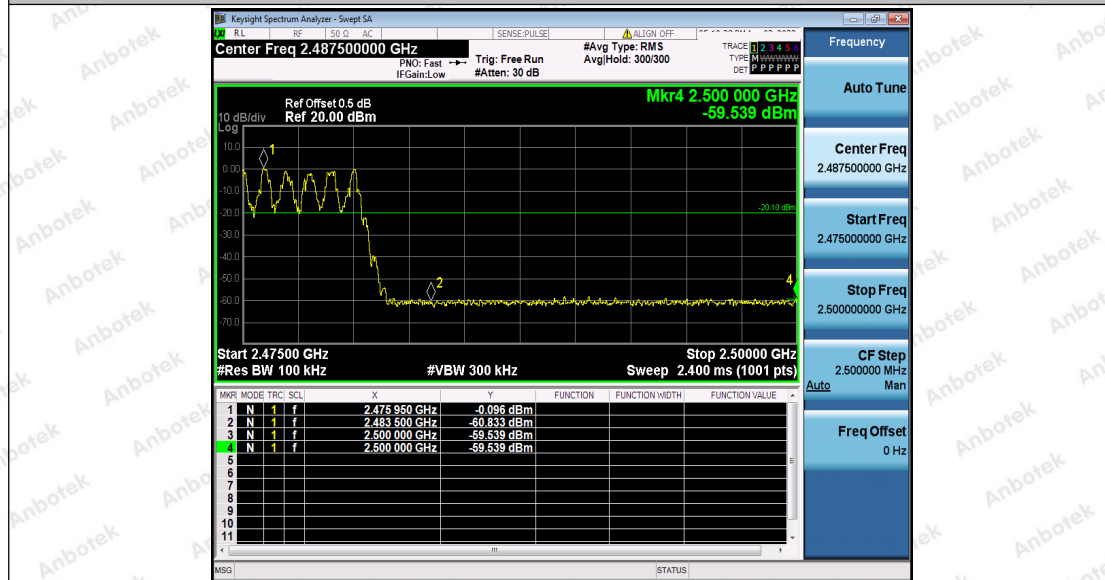
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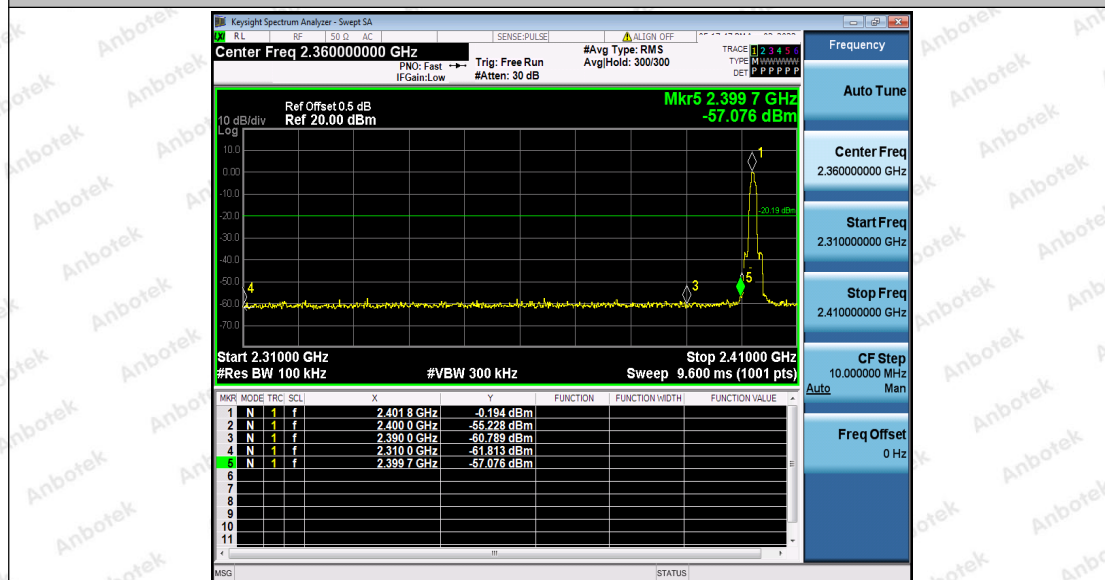
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



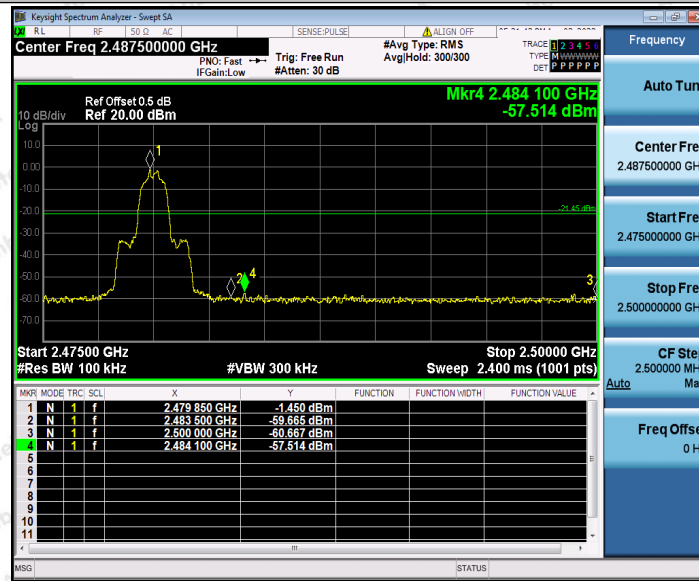
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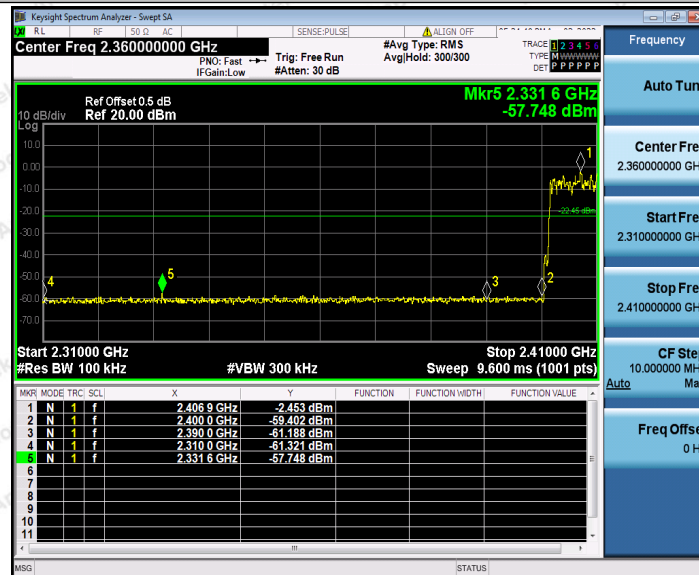
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



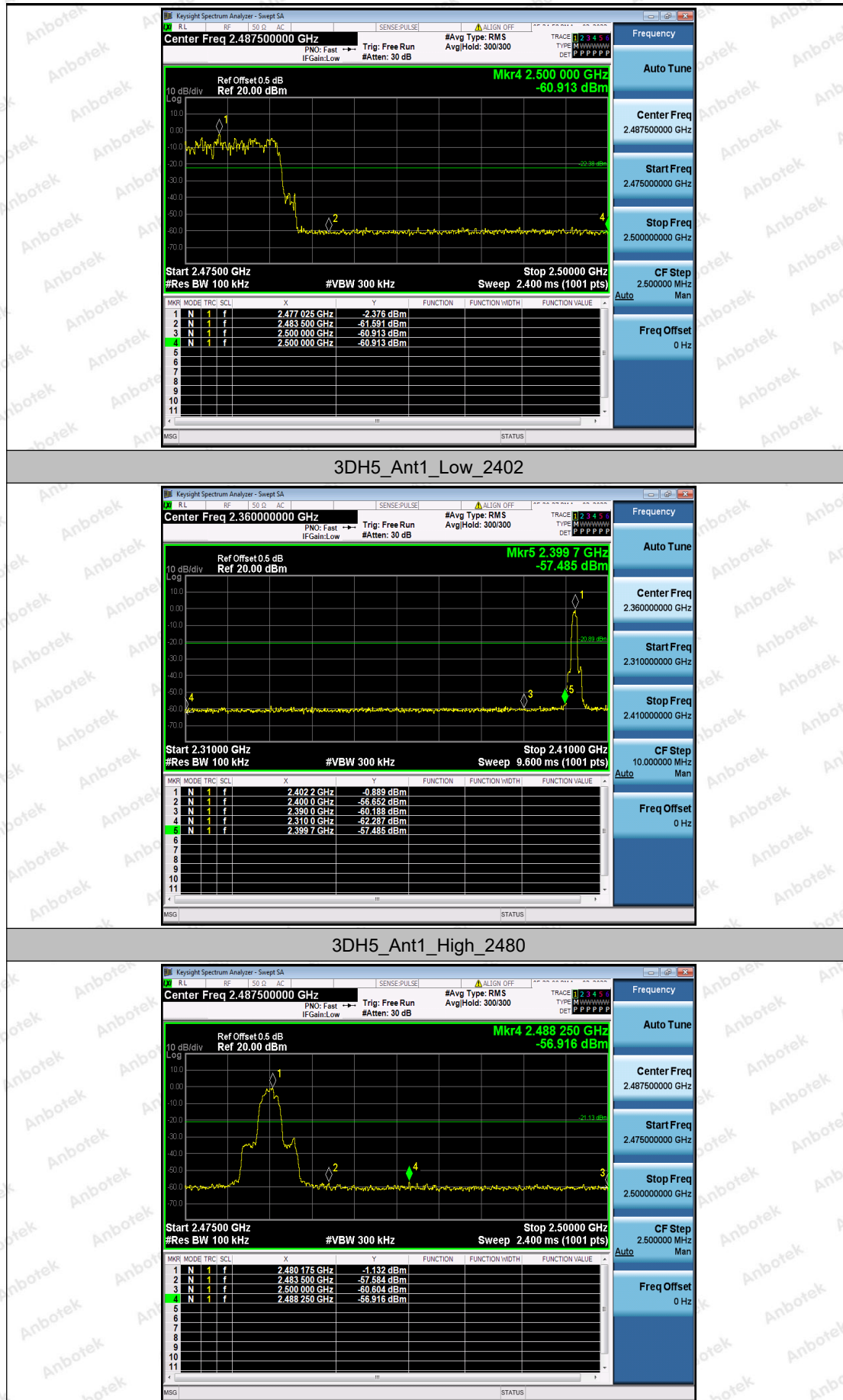
2DH5_Ant1_High_Hop

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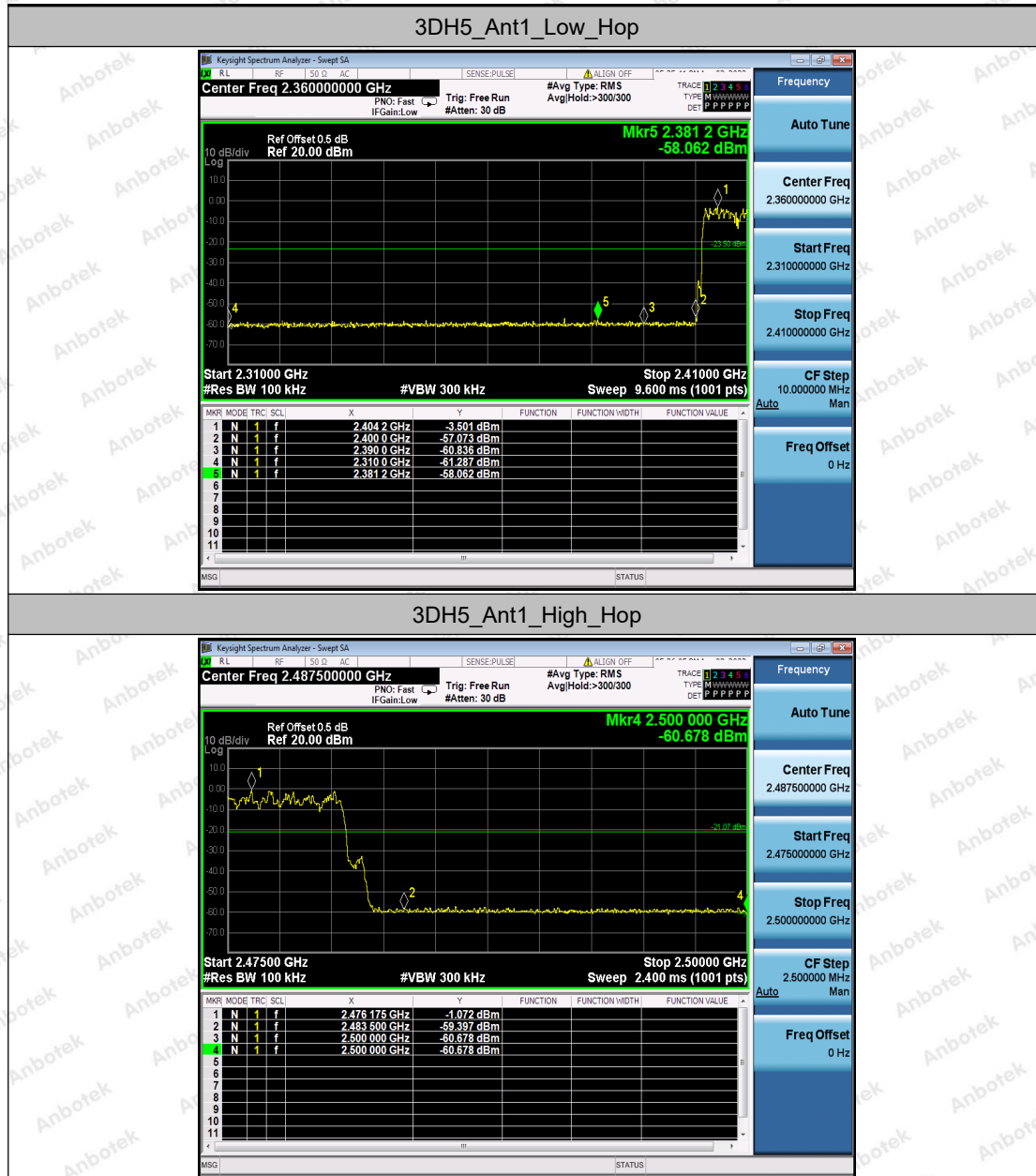


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Appendix H: Conducted Spurious Emission

Test Result

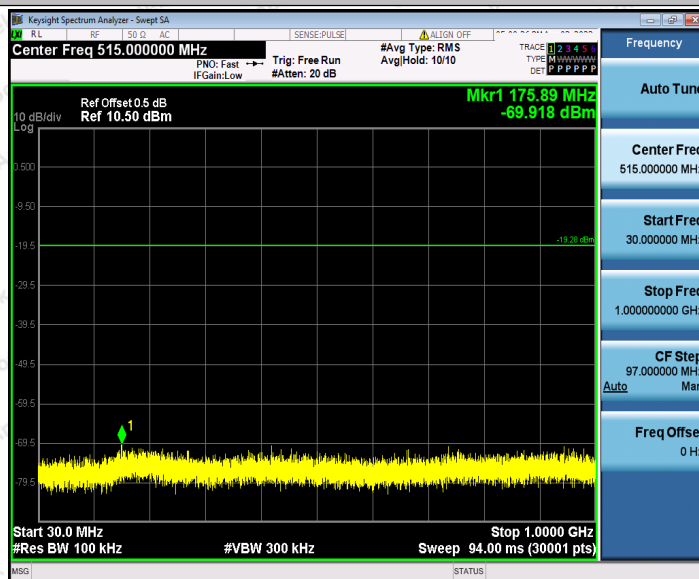
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.72	0.72	---	PASS
			30~1000	0.72	-69.92	≤-19.28	PASS
			1000~26500	0.72	-54.38	≤-19.28	PASS
		2441	Reference	1.08	1.08	---	PASS
			30~1000	1.08	-69.57	≤-18.92	PASS
			1000~26500	1.08	-54.16	≤-18.92	PASS
		2480	Reference	-0.61	-0.61	---	PASS
			30~1000	-0.61	-69.54	≤-20.61	PASS
			1000~26500	-0.61	-54.42	≤-20.61	PASS
2DH5	Ant1	2402	Reference	-0.13	-0.13	---	PASS
			30~1000	-0.13	-69.72	≤-20.13	PASS
			1000~26500	-0.13	-54.08	≤-20.13	PASS
		2441	Reference	-0.83	-0.83	---	PASS
			30~1000	-0.83	-70.03	≤-20.83	PASS
			1000~26500	-0.83	-54.48	≤-20.83	PASS
		2480	Reference	-1.13	-1.13	---	PASS
			30~1000	-1.13	-69.99	≤-21.13	PASS
			1000~26500	-1.13	-53.71	≤-21.13	PASS
3DH5	Ant1	2402	Reference	-1.19	-1.19	---	PASS
			30~1000	-1.19	-69.09	≤-21.19	PASS
			1000~26500	-1.19	-53.65	≤-21.19	PASS
		2480	Reference	-1.95	-1.95	---	PASS
			30~1000	-1.95	-69.4	≤-21.95	PASS
			1000~26500	-1.95	-54.21	≤-21.95	PASS

Test Graphs

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500

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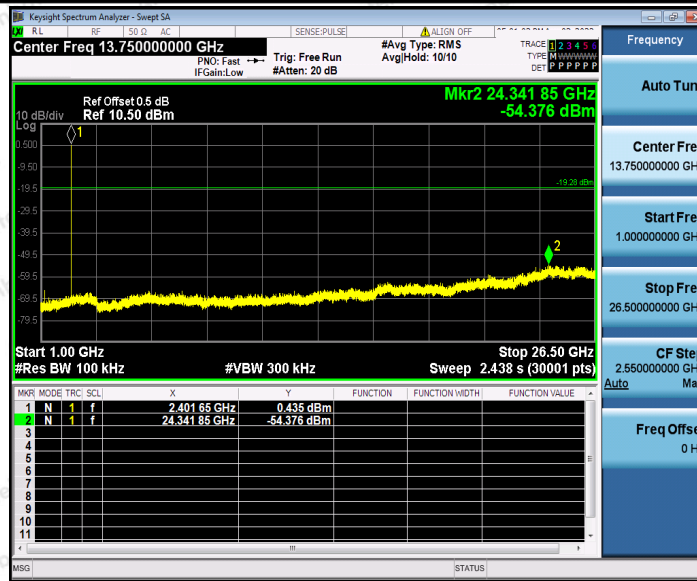
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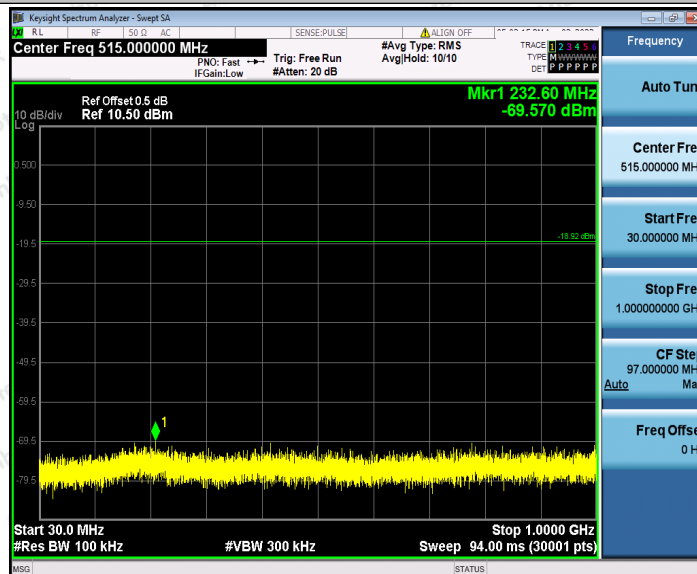
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

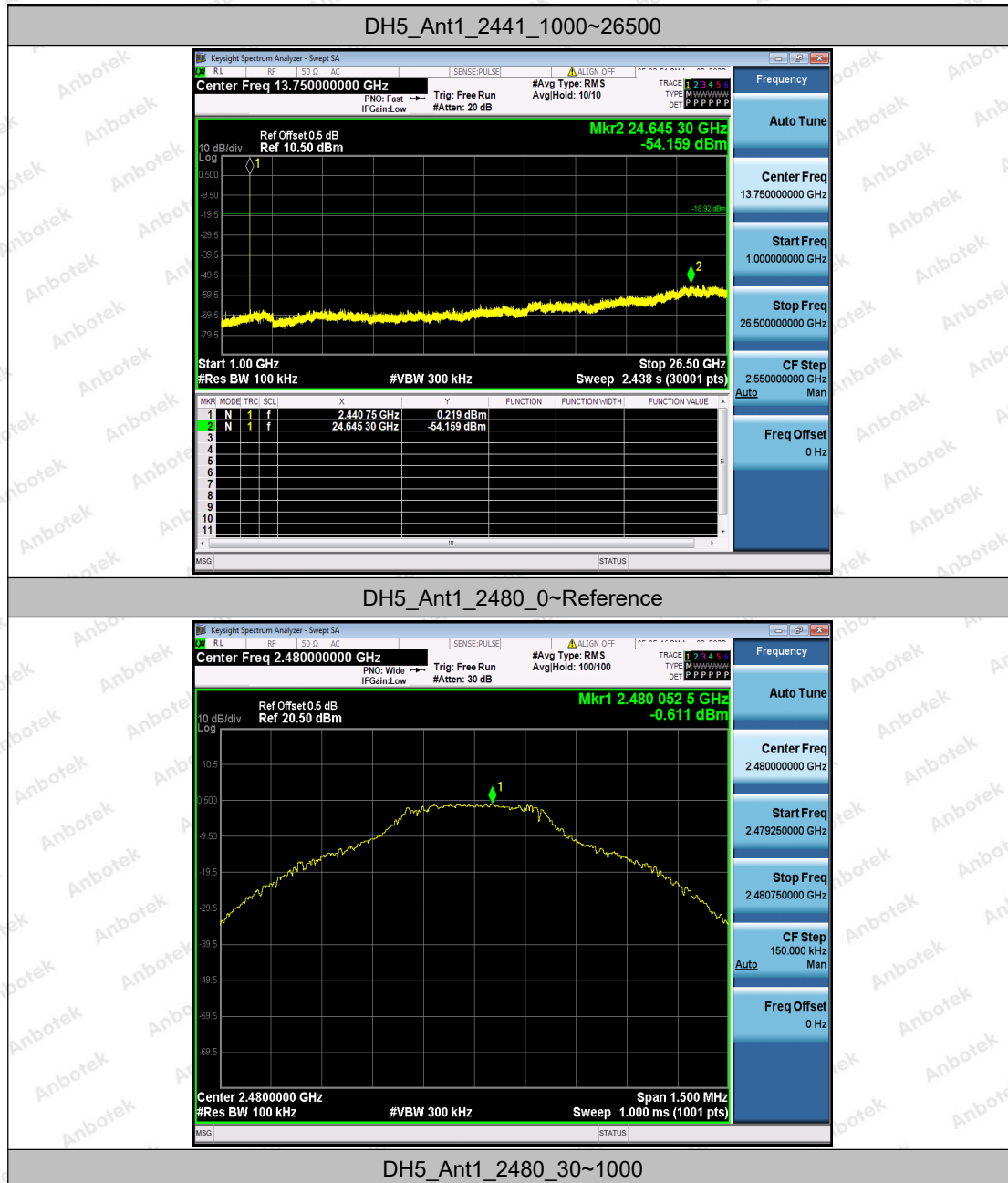


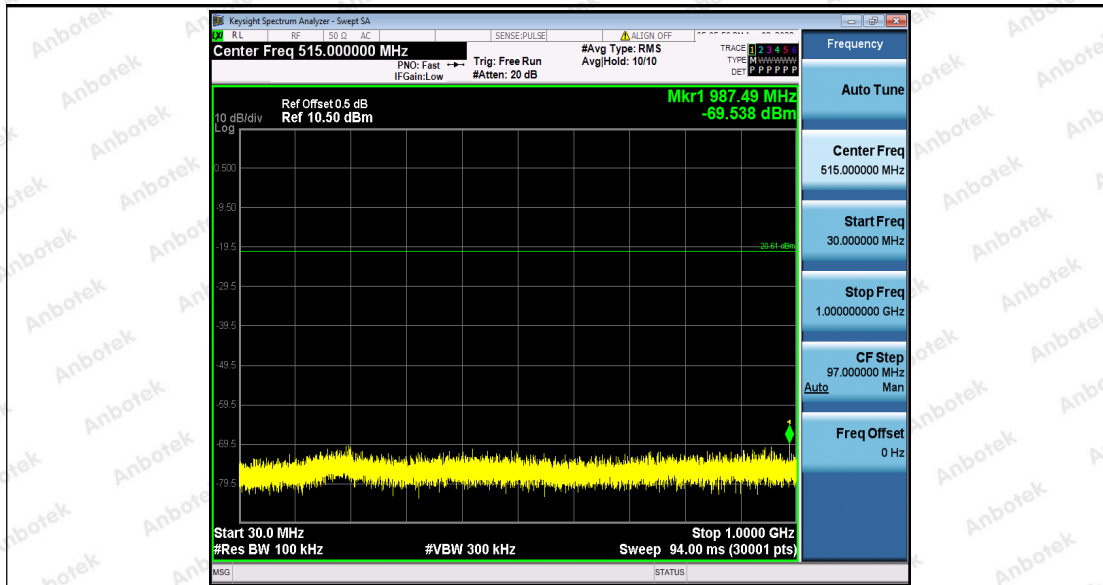
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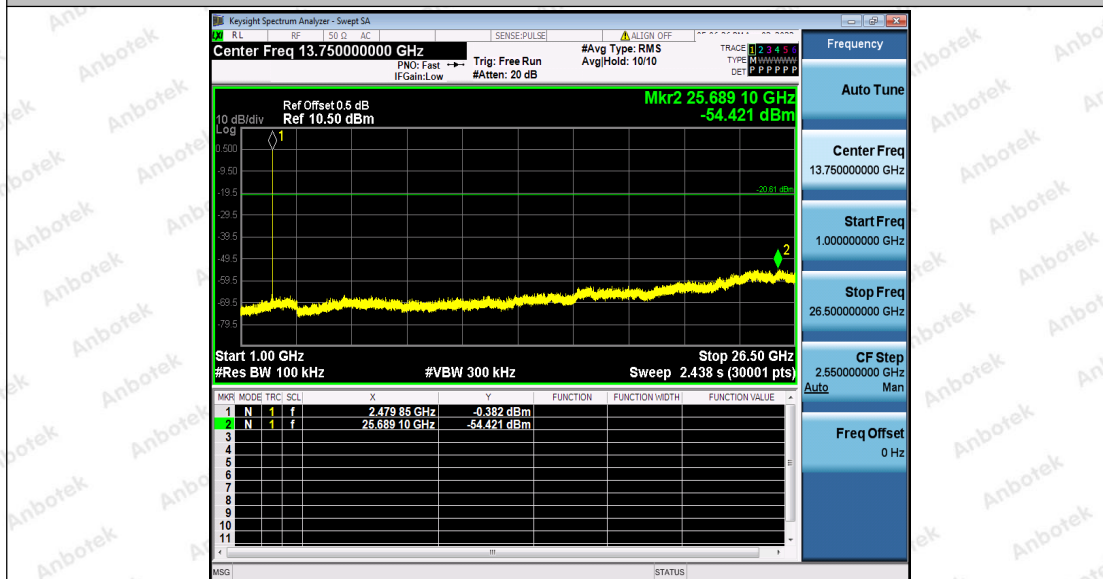
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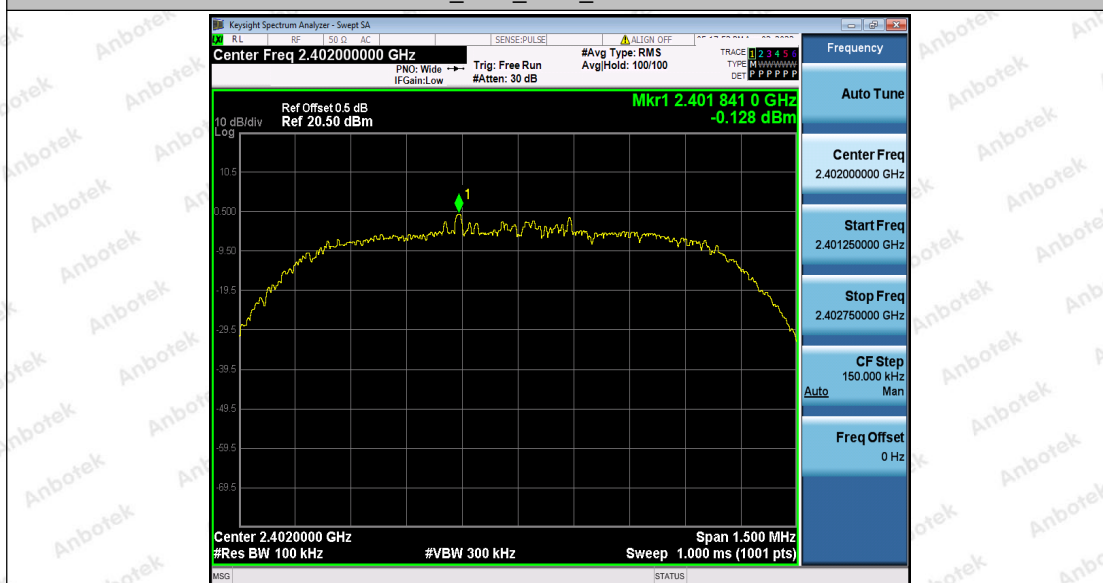




DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

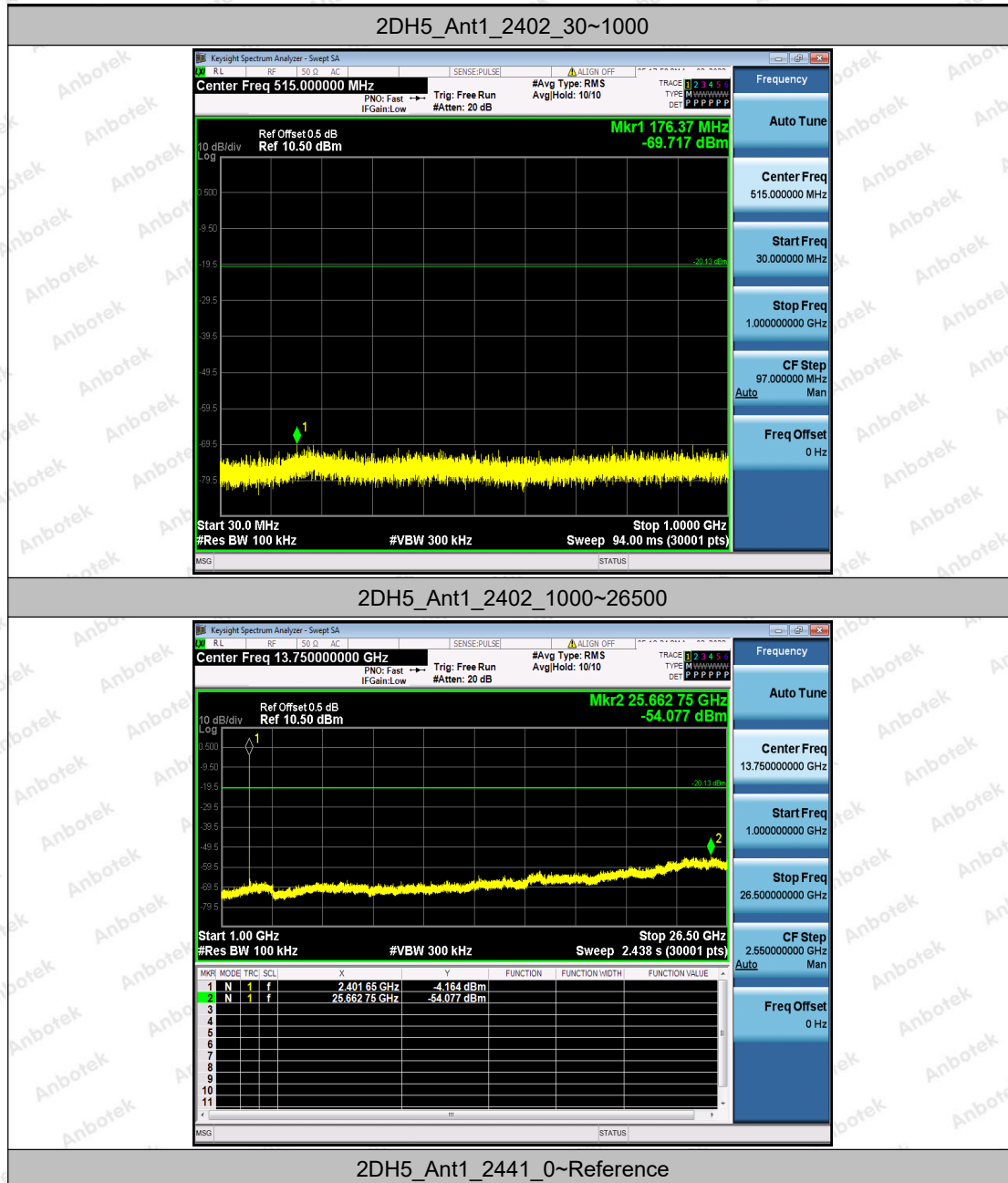


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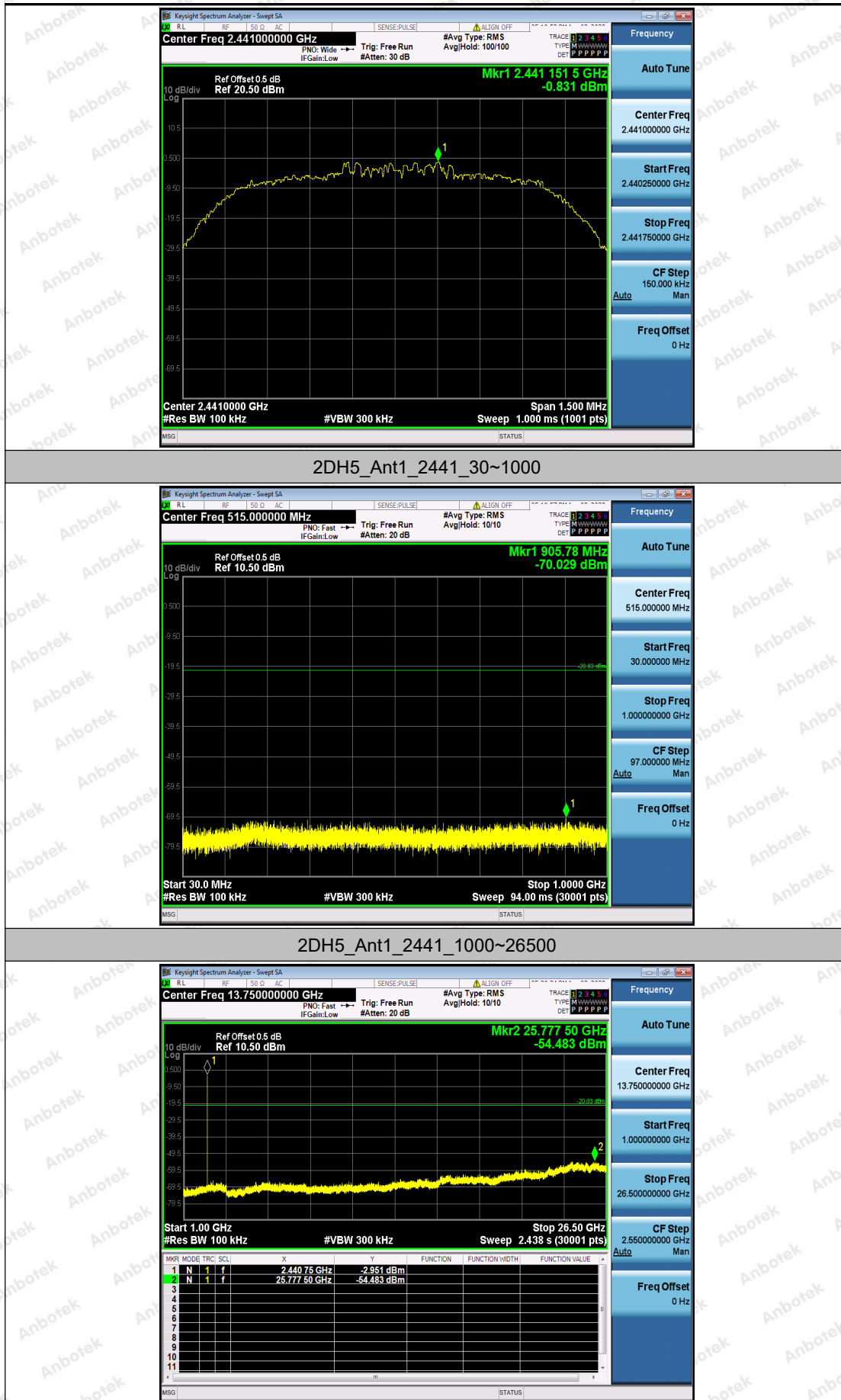
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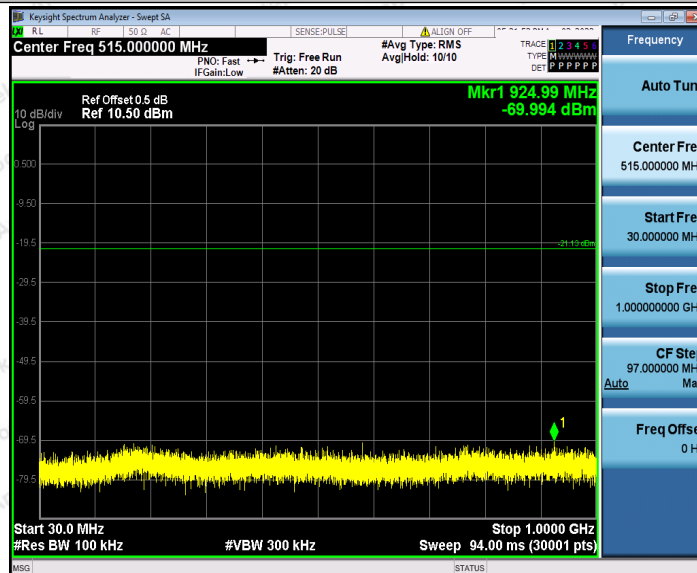
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

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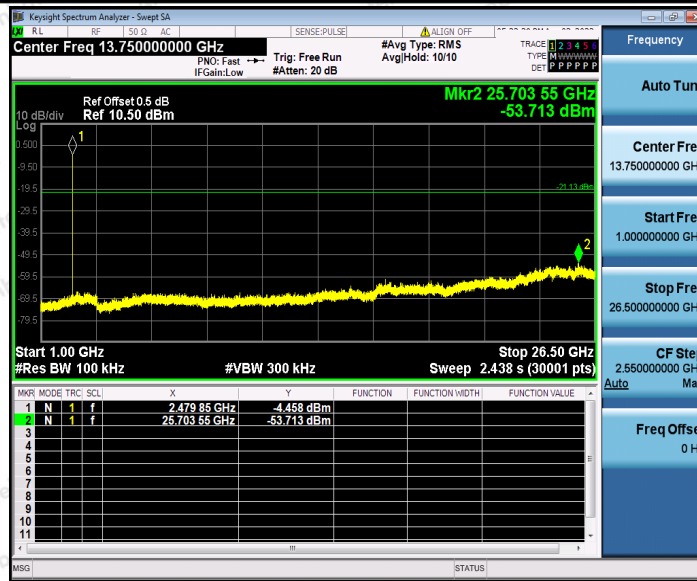
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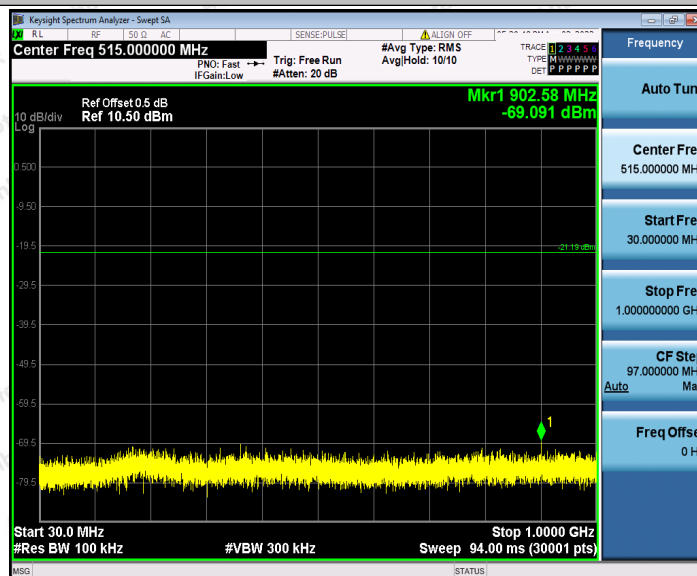
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



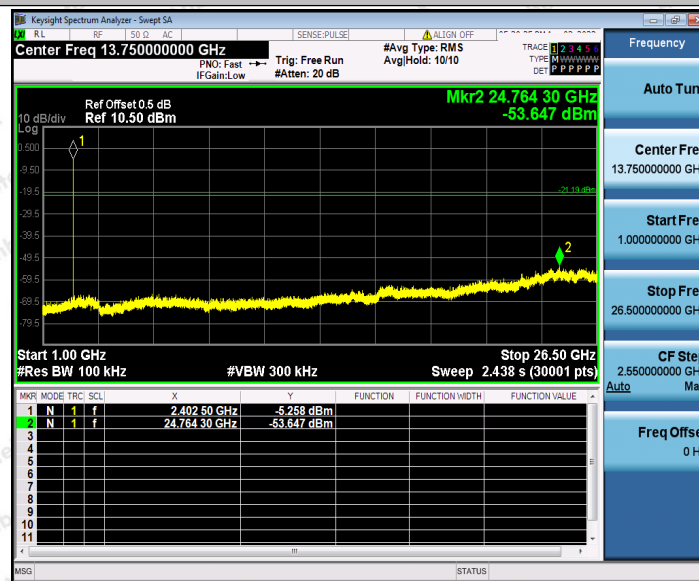
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2480_0~Reference



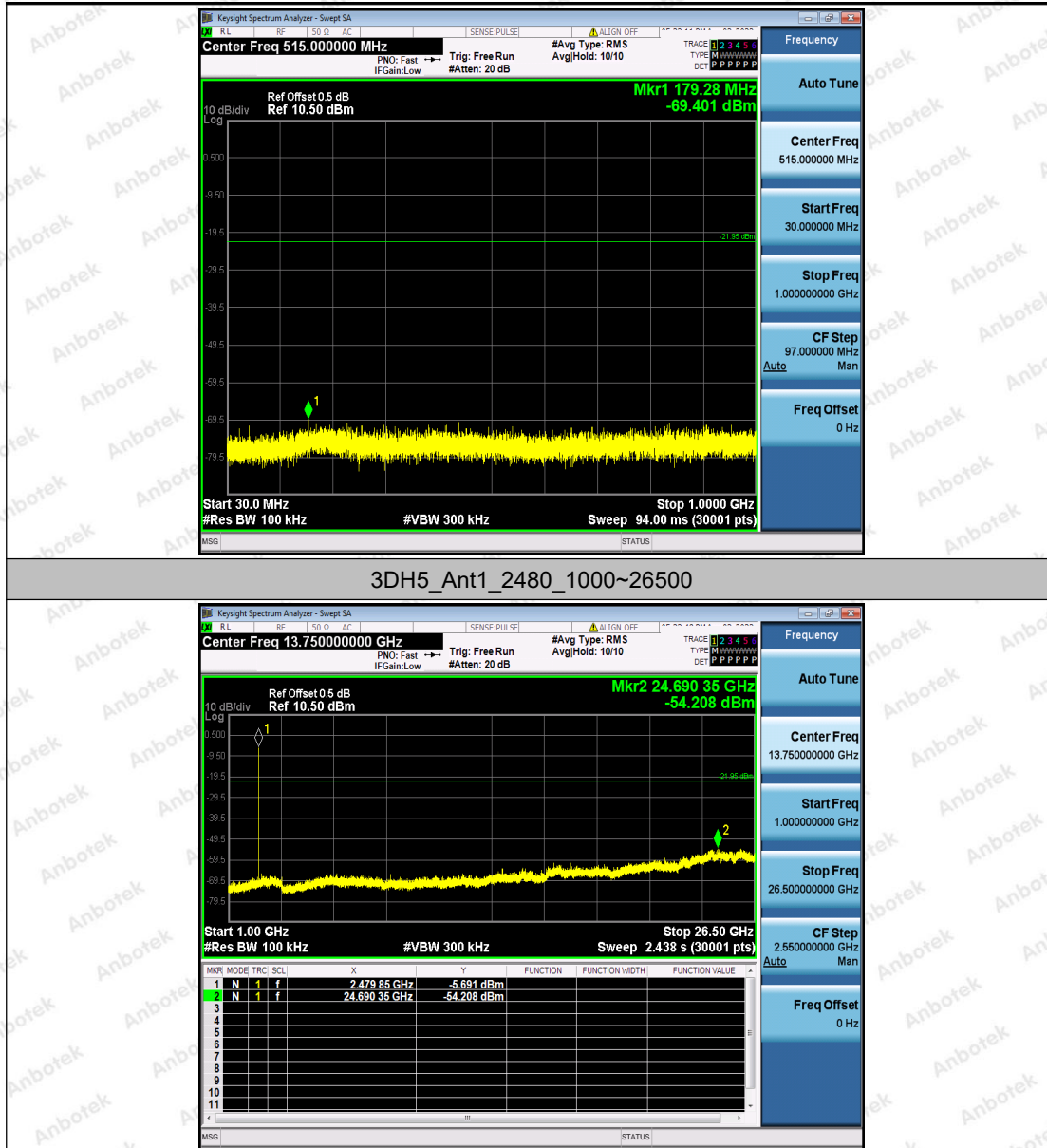
3DH5_Ant1_2480_30~1000

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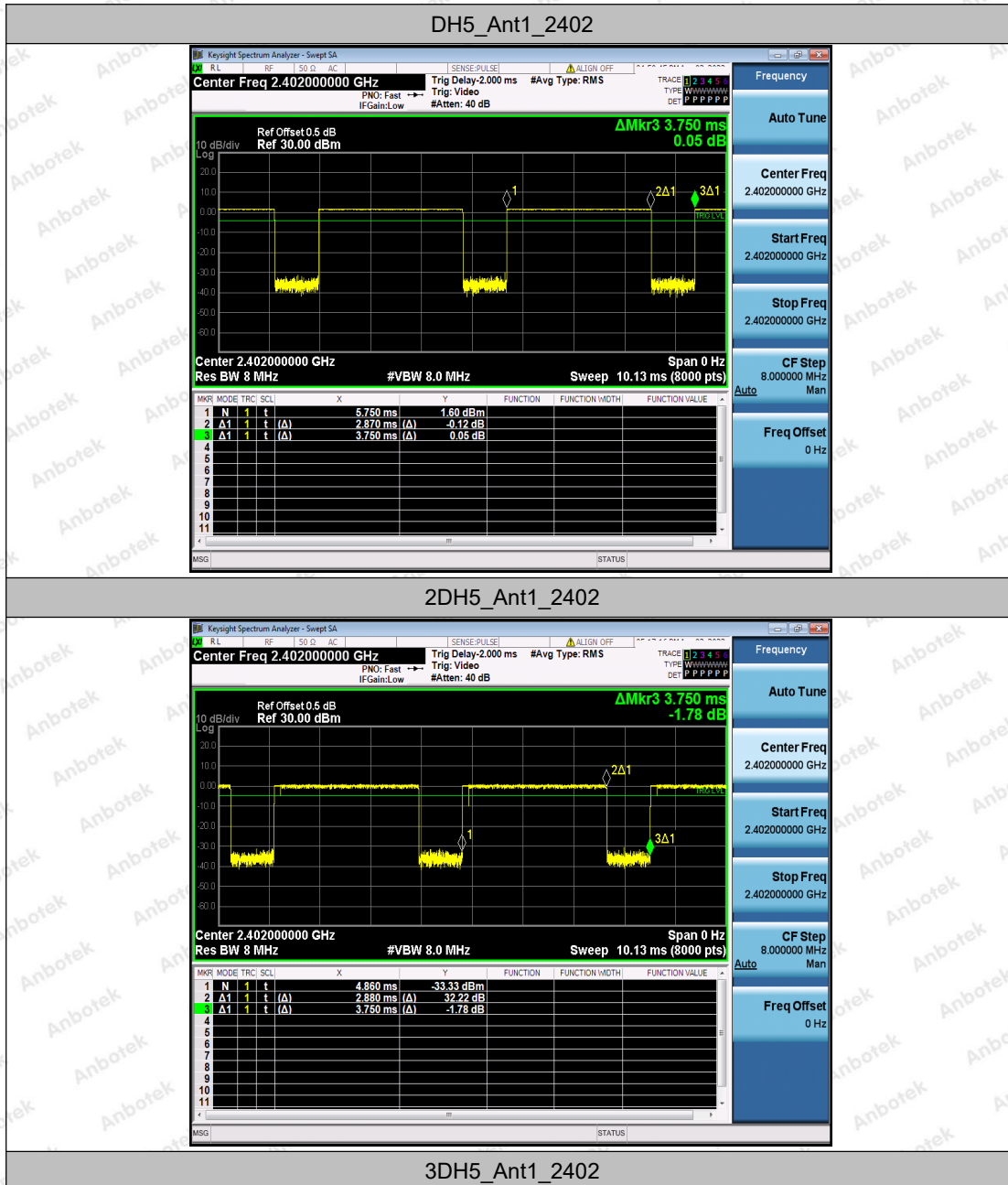
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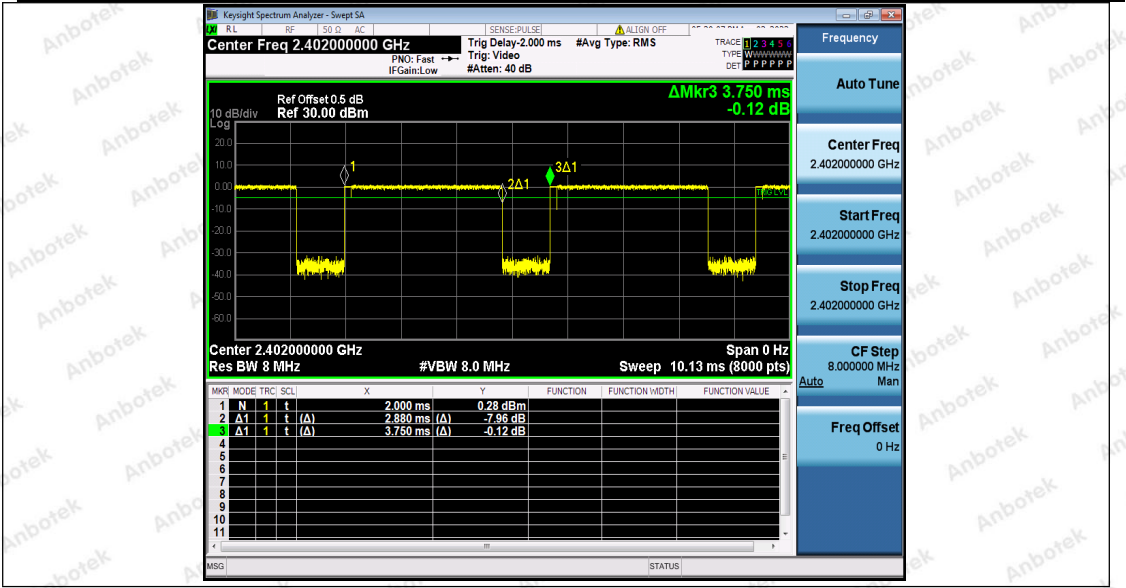
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	0.765 3	76.53	1.16	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS

Test Graphs





---End---