

Appendix Test Data

Report No.:	18220WC20151401	Test Sample No.:	1-2-2
Start Test Date:	2022.7.8	Finish Test Date:	2022.7.13
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3℃	Relative Humidity:	57.1 %
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	0.969	2401.511	2402.480	---	PASS
		2441	0.921	2440.529	2441.450	---	PASS
		2480	0.954	2479.505	2480.459	---	PASS
2DH5	Ant1	2402	1.287	2401.364	2402.651	---	PASS
		2441	1.257	2440.361	2441.618	---	PASS
		2480	1.293	2479.361	2480.654	---	PASS
3DH5	Ant1	2402	1.281	2401.343	2402.624	---	PASS
		2441	1.293	2440.337	2441.630	---	PASS
		2480	1.281	2479.334	2480.615	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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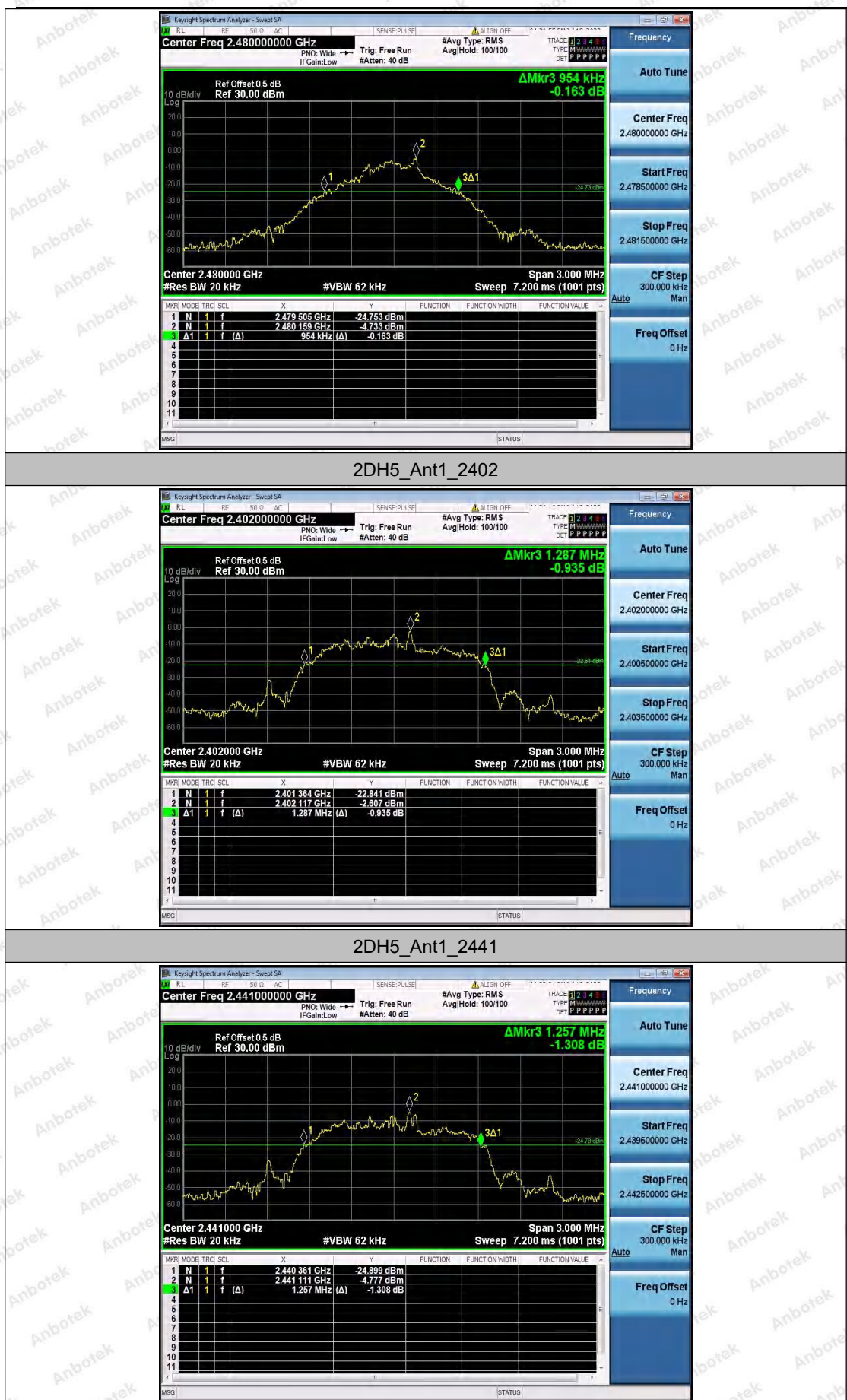
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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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	0.91498	2401.530	2402.445	---	PASS
		2441	0.91644	2440.524	2441.441	---	PASS
		2480	0.90313	2479.531	2480.434	---	PASS
2DH5	Ant1	2402	1.1708	2401.425	2402.595	---	PASS
		2441	1.1875	2440.407	2441.595	---	PASS
		2480	1.1938	2479.401	2480.595	---	PASS
3DH5	Ant1	2402	1.1987	2401.406	2402.605	---	PASS
		2441	1.1968	2440.396	2441.592	---	PASS
		2480	1.2007	2479.394	2480.594	---	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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Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.62	≤20.97	PASS
		2441	-0.41	≤20.97	PASS
		2480	-2.2	≤20.97	PASS
2DH5	Ant1	2402	1.36	≤20.97	PASS
		2441	-0.76	≤20.97	PASS
		2480	-2.35	≤20.97	PASS
3DH5	Ant1	2402	1.39	≤20.97	PASS
		2441	-0.72	≤20.97	PASS
		2480	-2.43	≤20.97	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



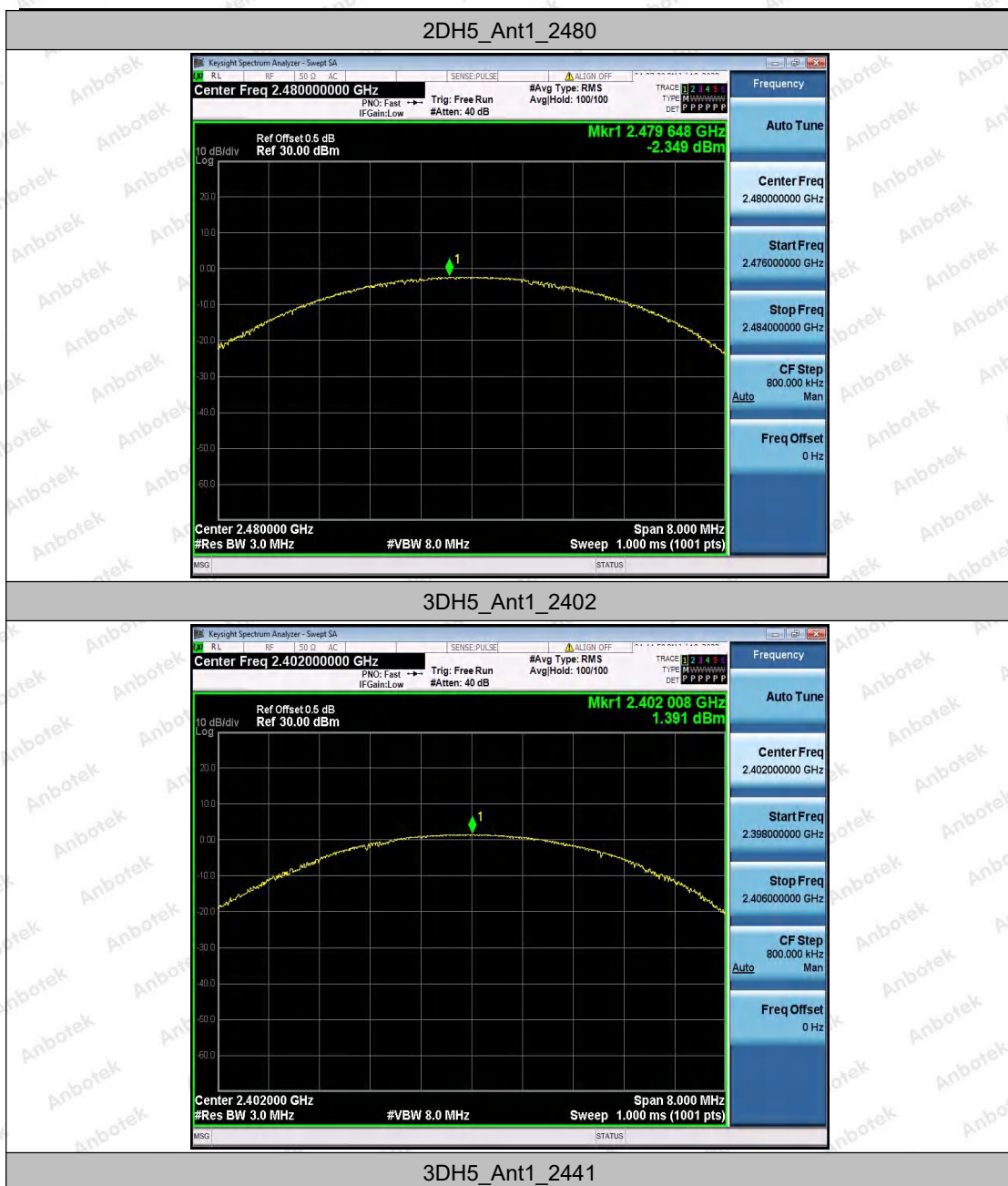
DH5_Ant1_2480

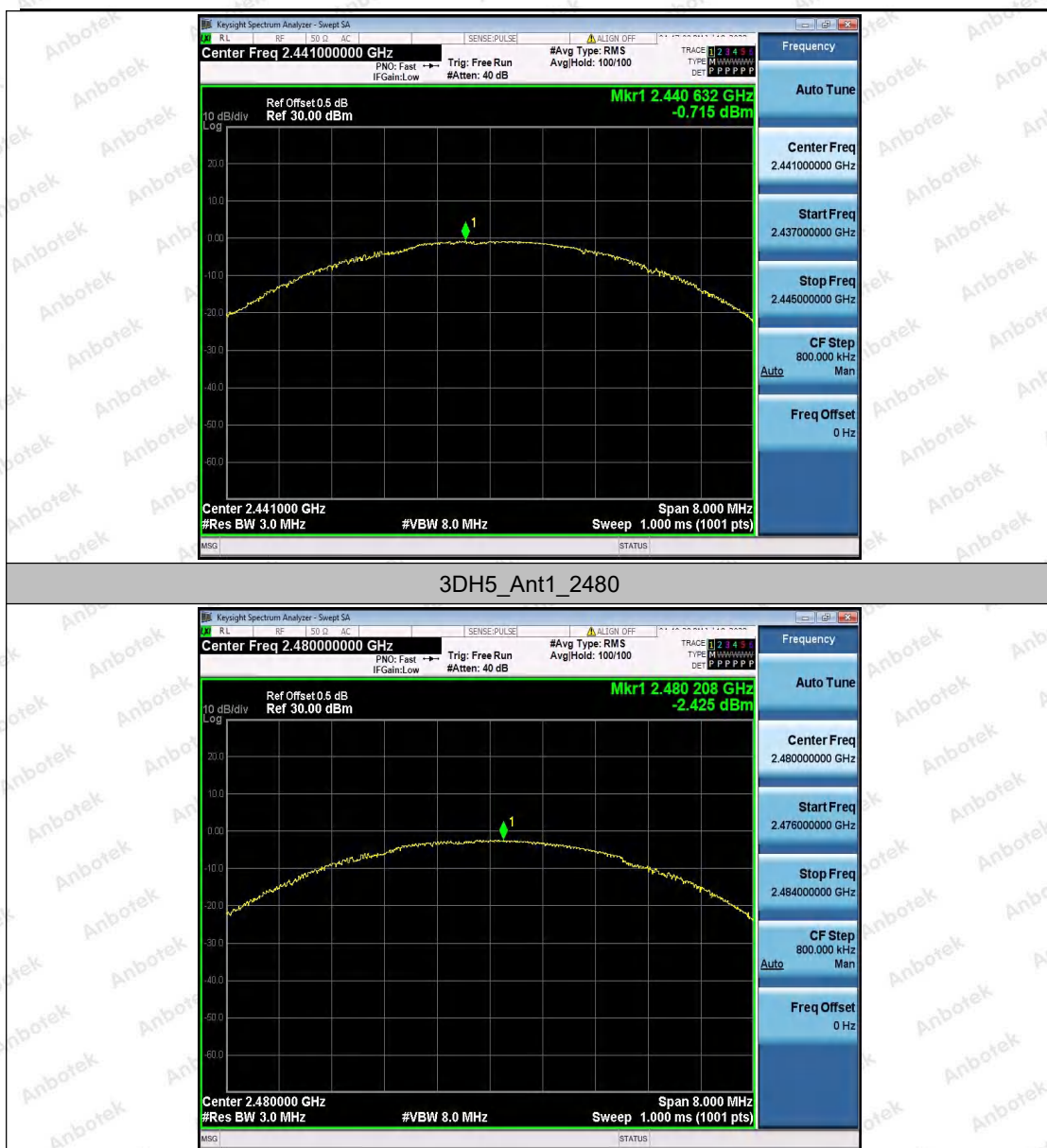


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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1	≥ 0.969	PASS
2DH5	Ant1	Hop	0.98	≥ 0.862	PASS
3DH5	Ant1	Hop	0.968	≥ 0.862	PASS

Test Graphs





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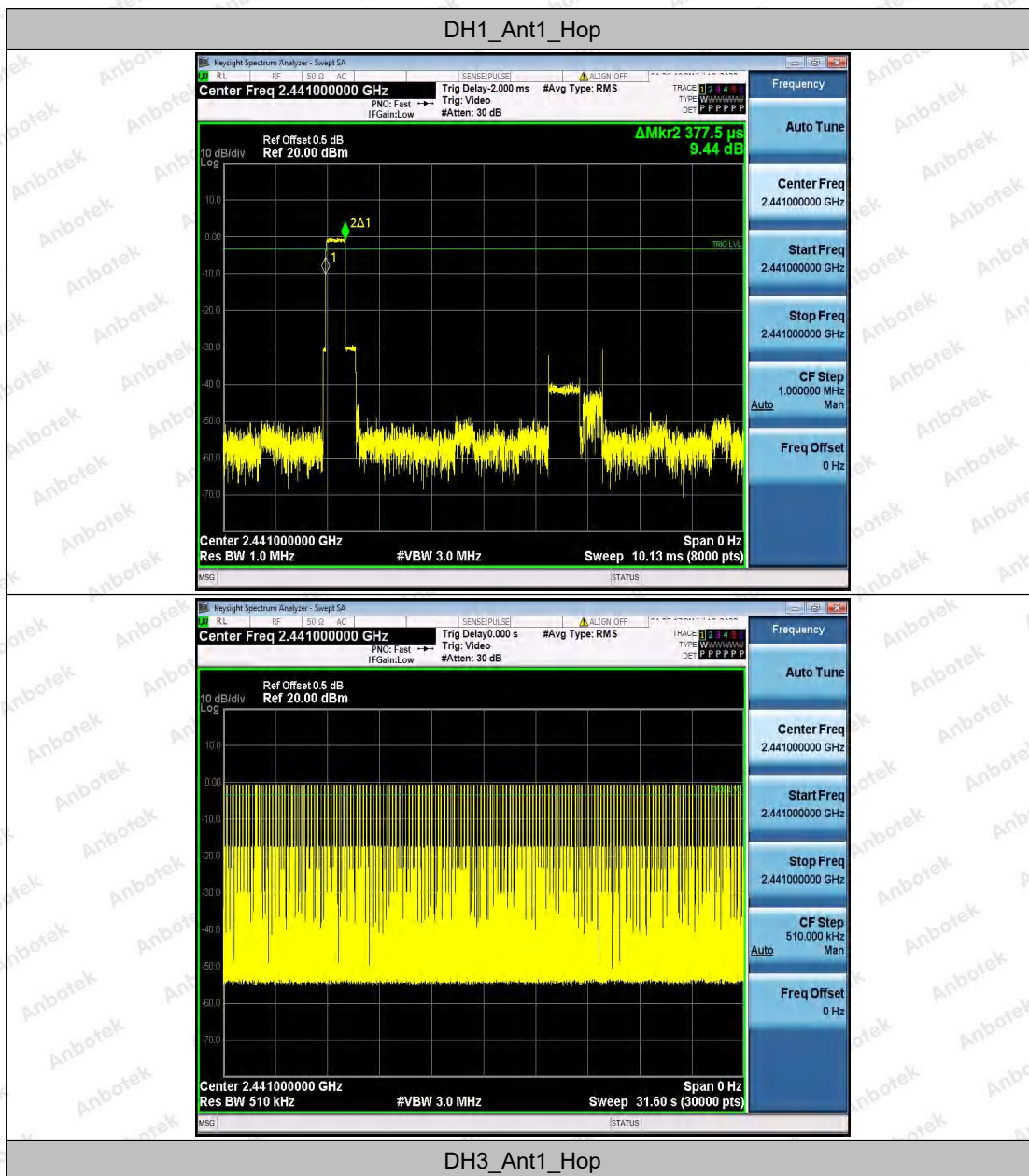
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Appendix E: Time of occupancy

Test Result

Test Mode	Antenna	Channel	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	310	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.88	165	0.311	≤0.4	PASS
DH5	Ant1	Hop	2.89	118	0.341	≤0.4	PASS
2DH1	Ant1	Hop	0.39	311	0.12	≤0.4	PASS
2DH3	Ant1	Hop	1.64	173	0.283	≤0.4	PASS
2DH5	Ant1	Hop	2.89	114	0.329	≤0.4	PASS
3DH1	Ant1	Hop	0.39	311	0.12	≤0.4	PASS
3DH3	Ant1	Hop	1.64	173	0.283	≤0.4	PASS
3DH5	Ant1	Hop	2.89	108	0.312	≤0.4	PASS

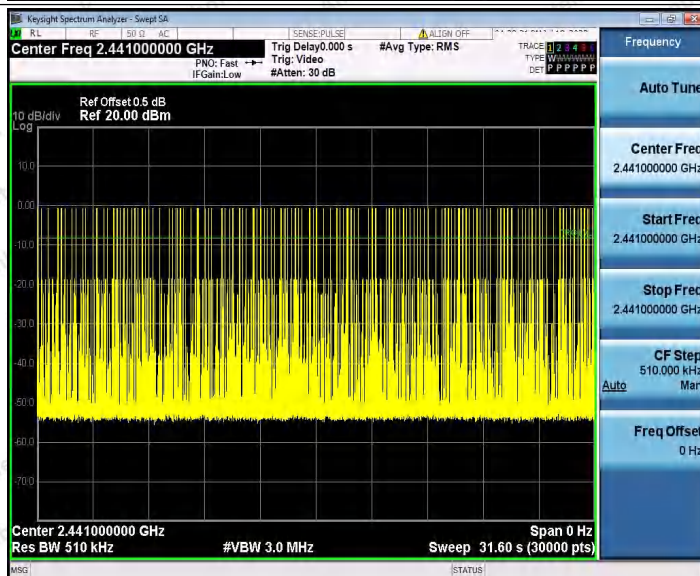
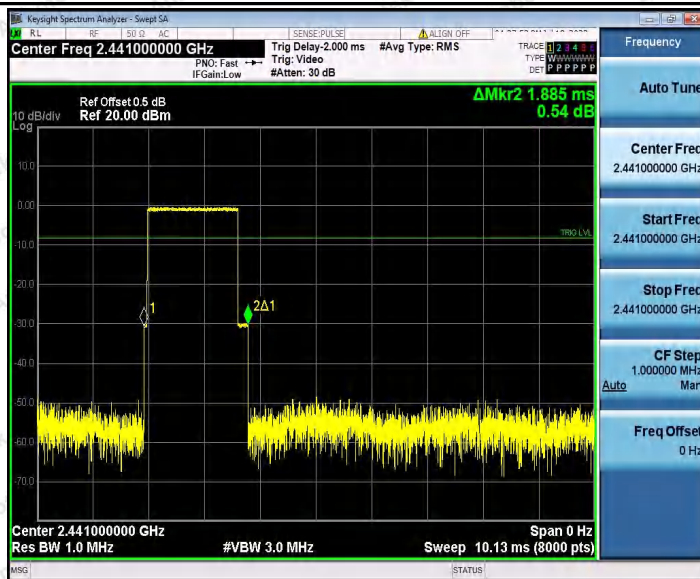
Test Graphs



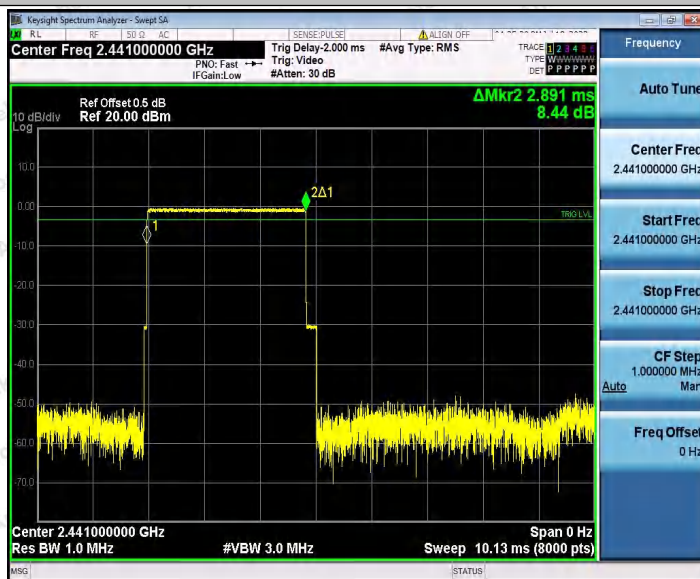
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DH5_Ant1_Hop



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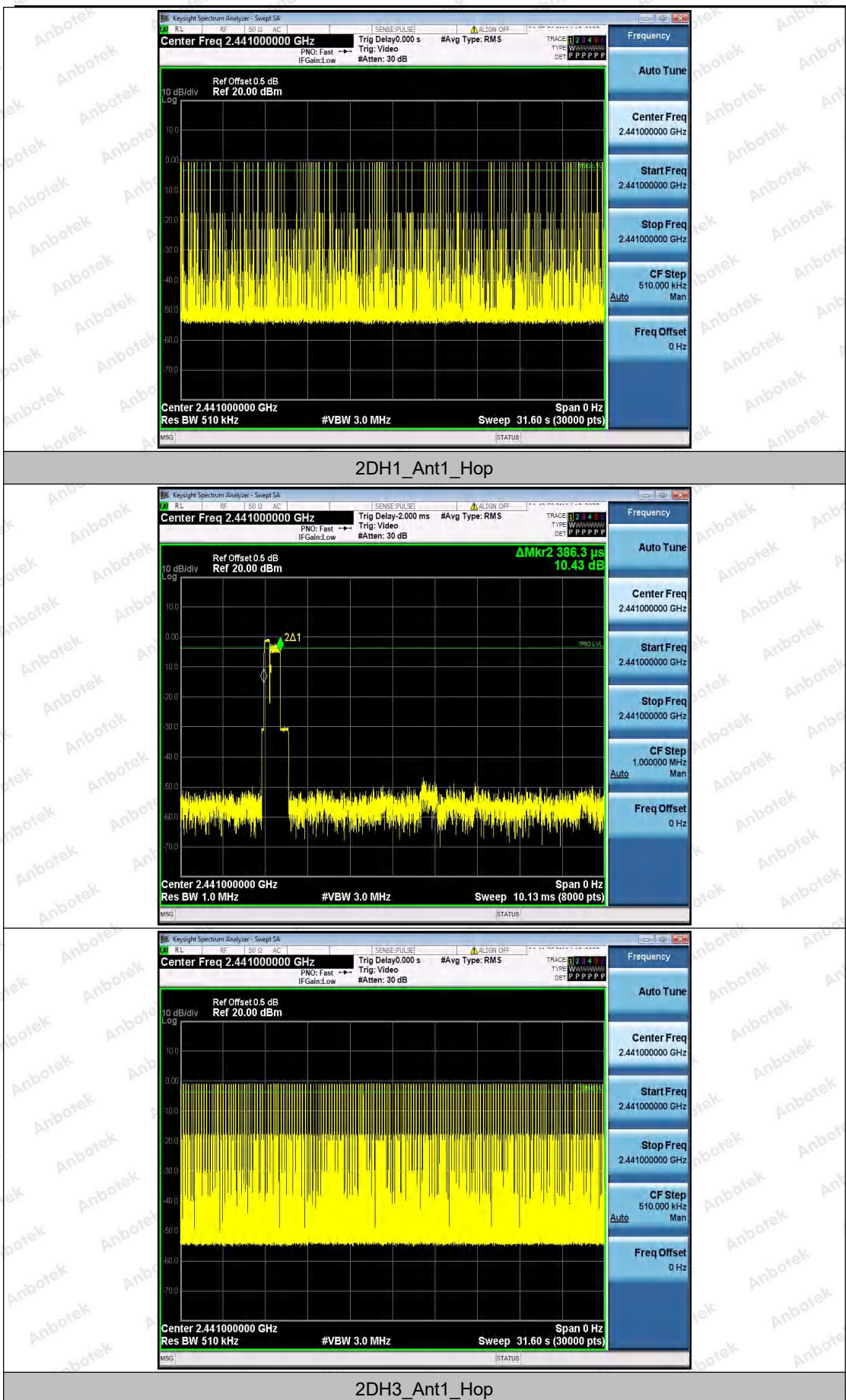
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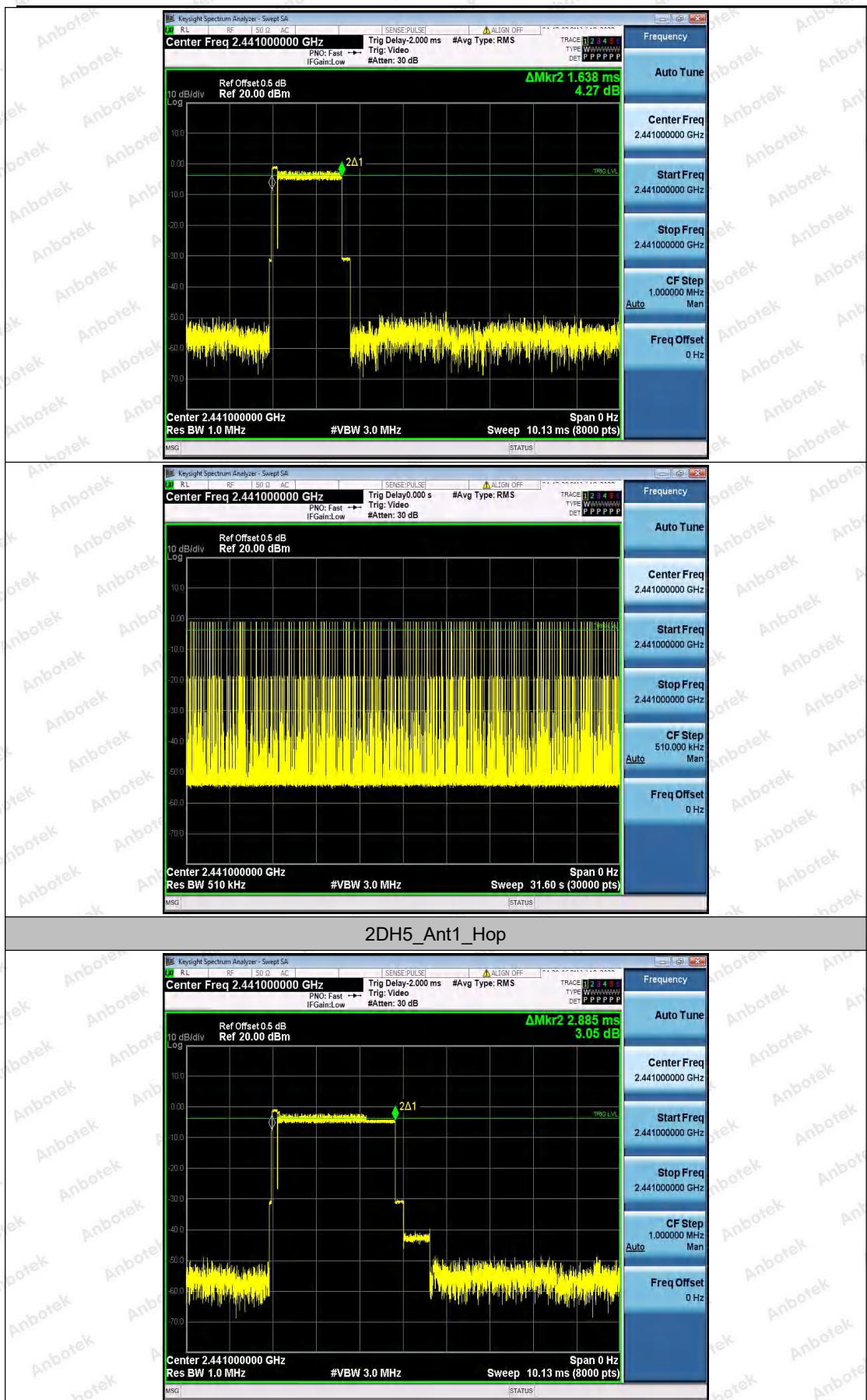
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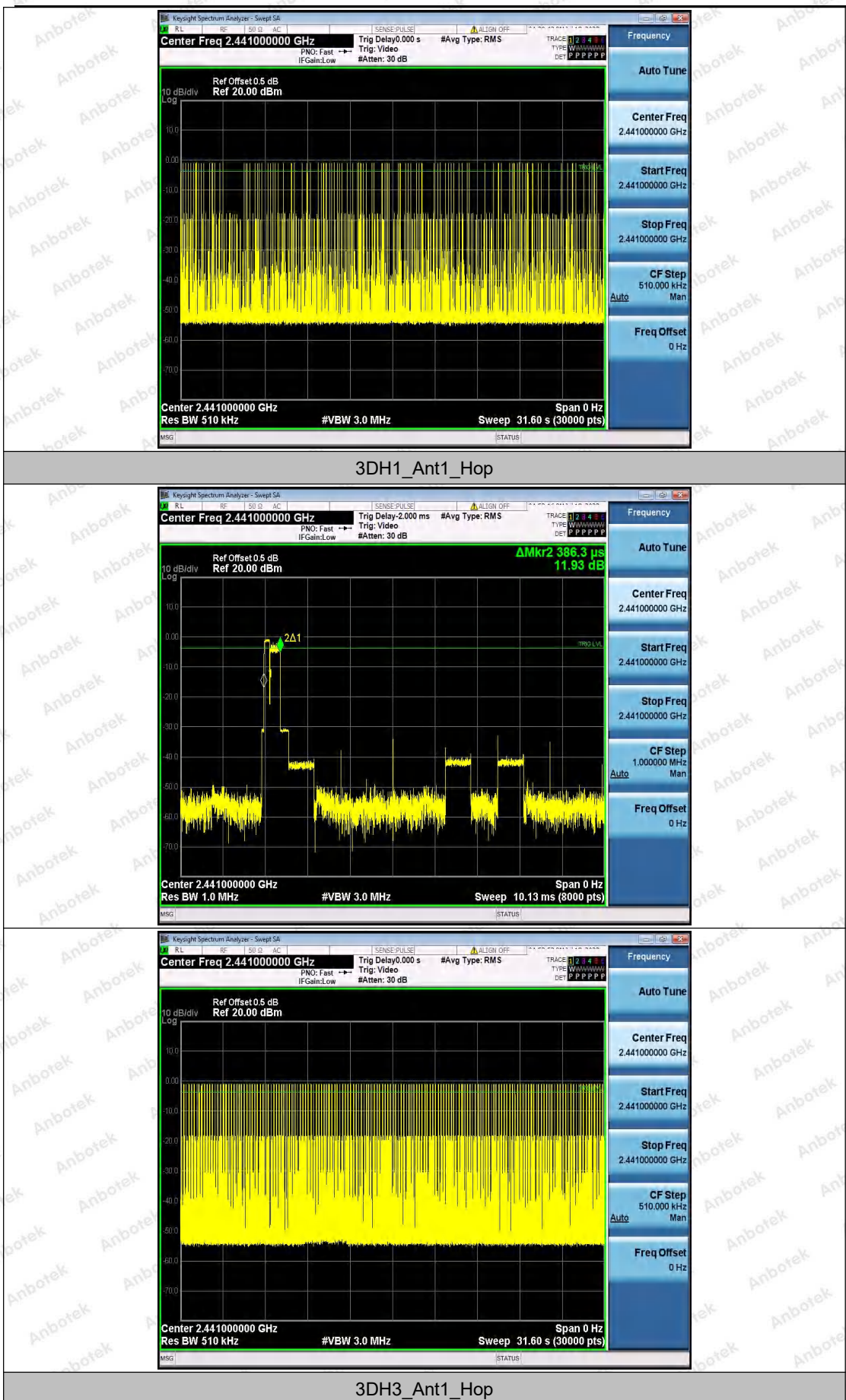
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2DH5_Ant1_Hop

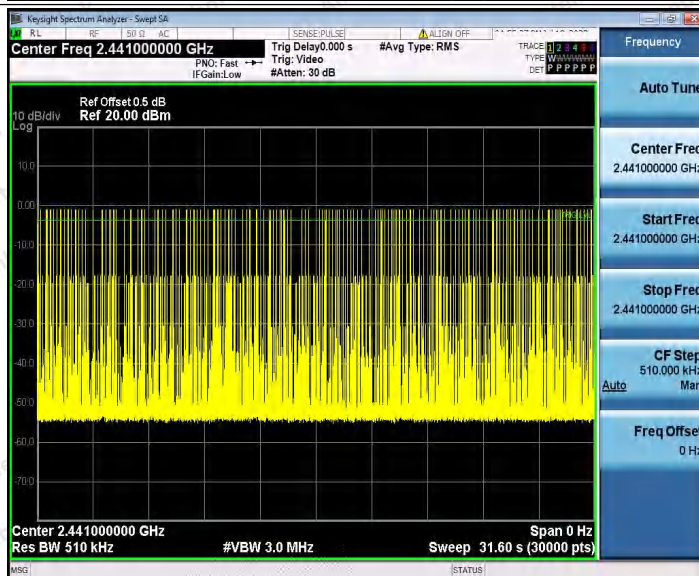
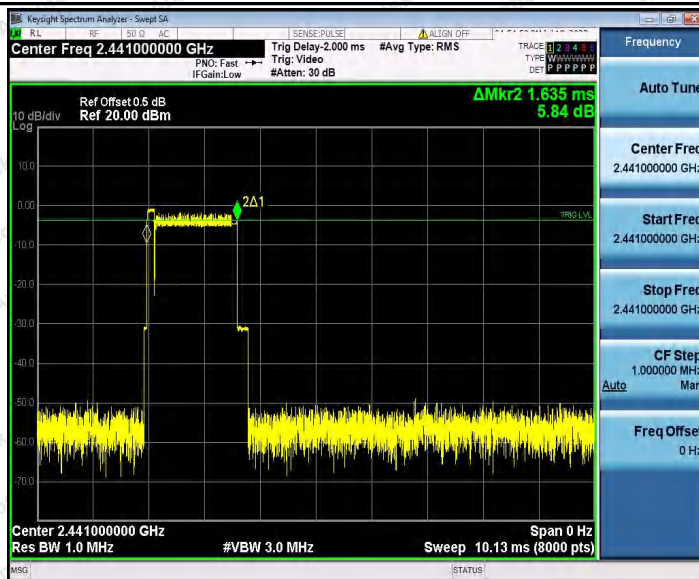


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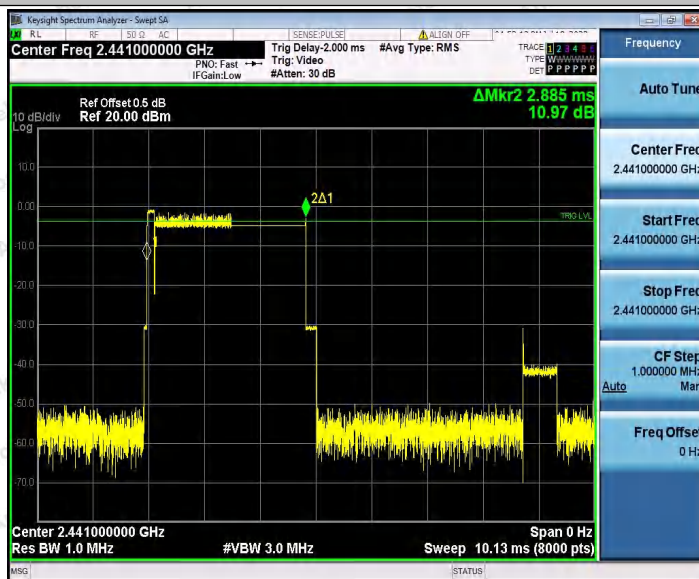
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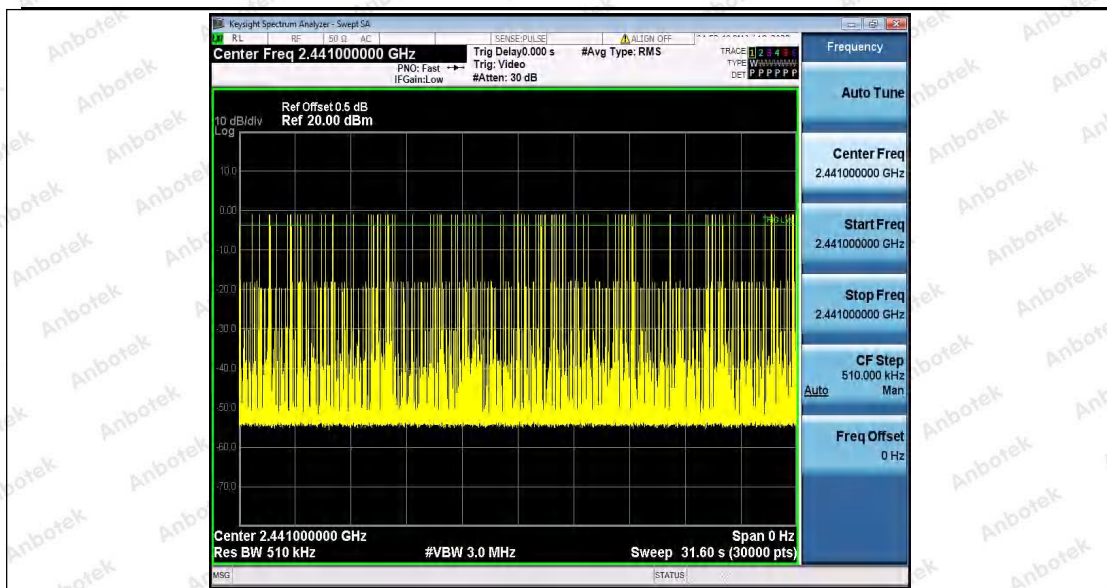
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3DH5_Ant1_Hop





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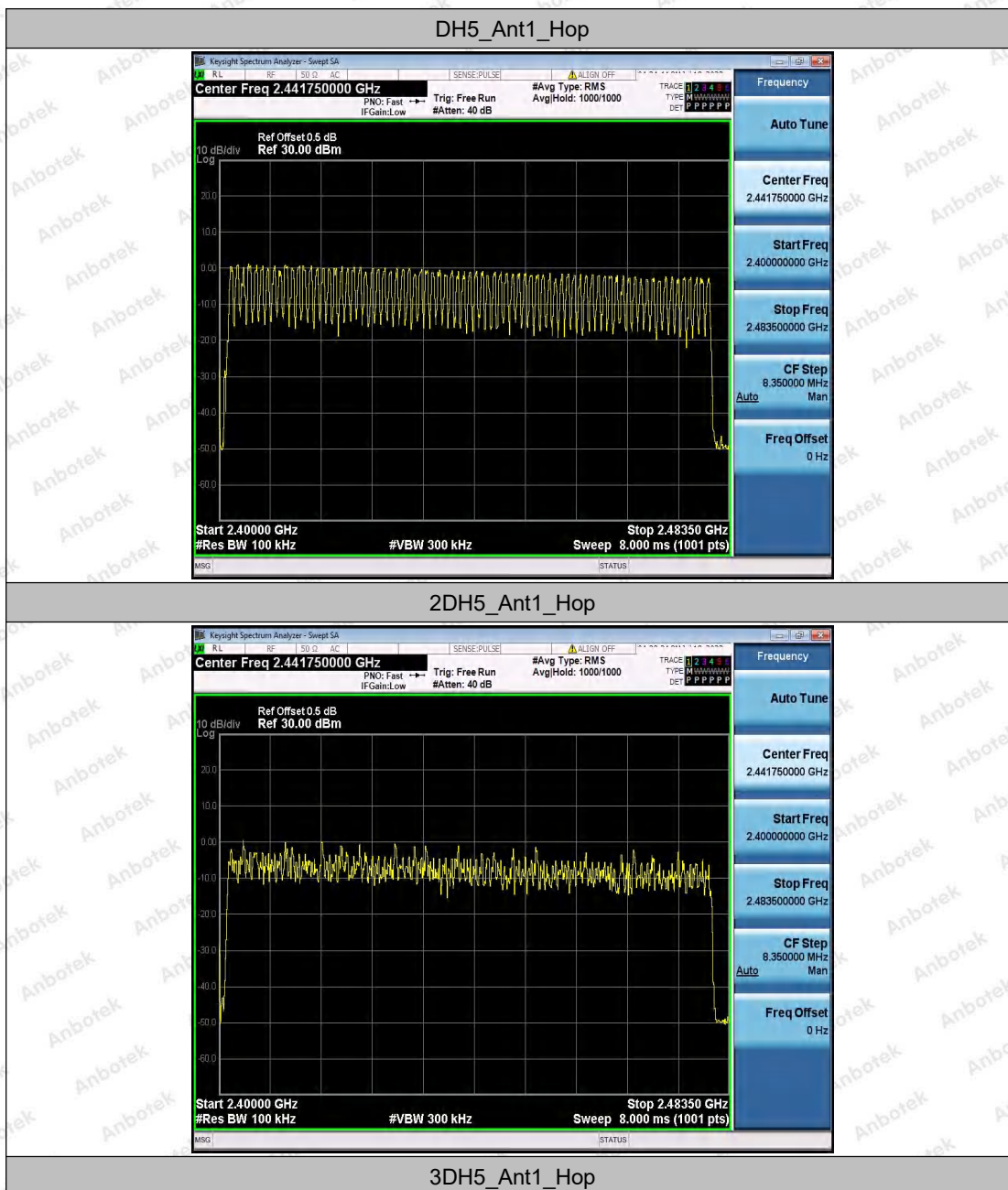
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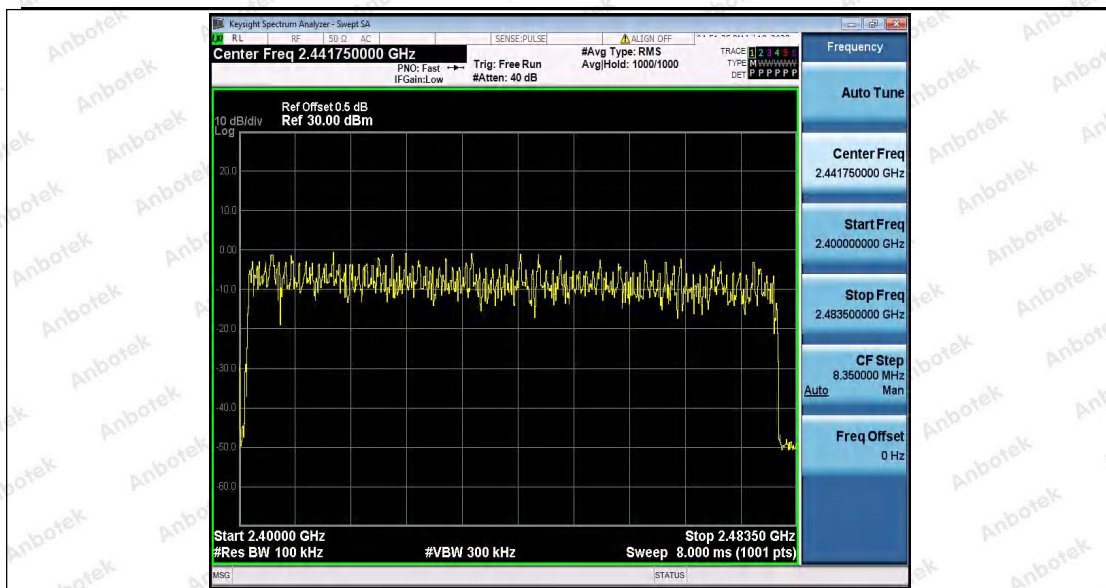
Appendix F: Number of hopping channels

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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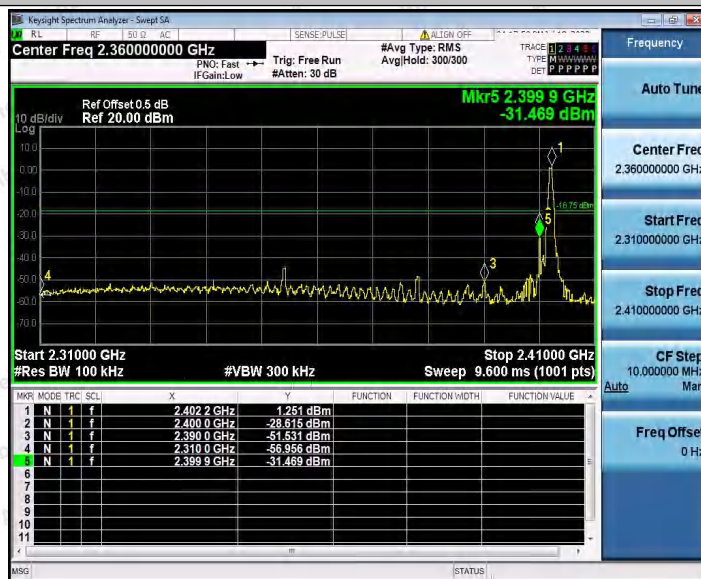
Appendix G: Band edge measurements

Test Result

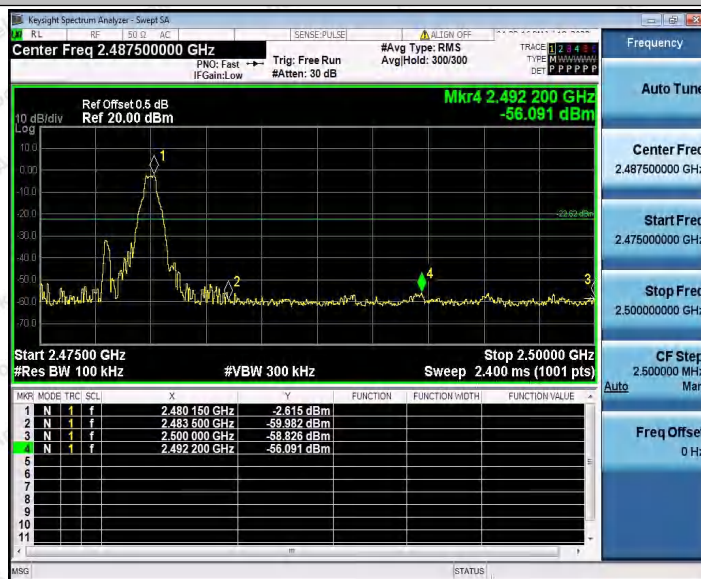
Test Mode	Antenna	Ch Name	Channel	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.25	-31.47	≤-18.75	PASS
		High	2480	-2.62	-56.09	≤-22.62	PASS
		Low	Hop	1.06	-45.65	≤-18.94	PASS
		High	Hop	-2.62	-50.26	≤-22.62	PASS
2DH5	Ant1	Low	2402	1.27	-31.03	≤-18.73	PASS
		High	2480	-3.14	-55.31	≤-23.14	PASS
		Low	Hop	0.76	-46.27	≤-19.24	PASS
		High	Hop	-6.05	-56.75	≤-26.05	PASS
3DH5	Ant1	Low	2402	1.02	-31.44	≤-18.98	PASS
		High	2480	-2.77	-55.49	≤-22.77	PASS
		Low	Hop	-2.99	-45.02	≤-22.99	PASS
		High	Hop	-3.79	-51.99	≤-23.79	PASS

Test Graphs

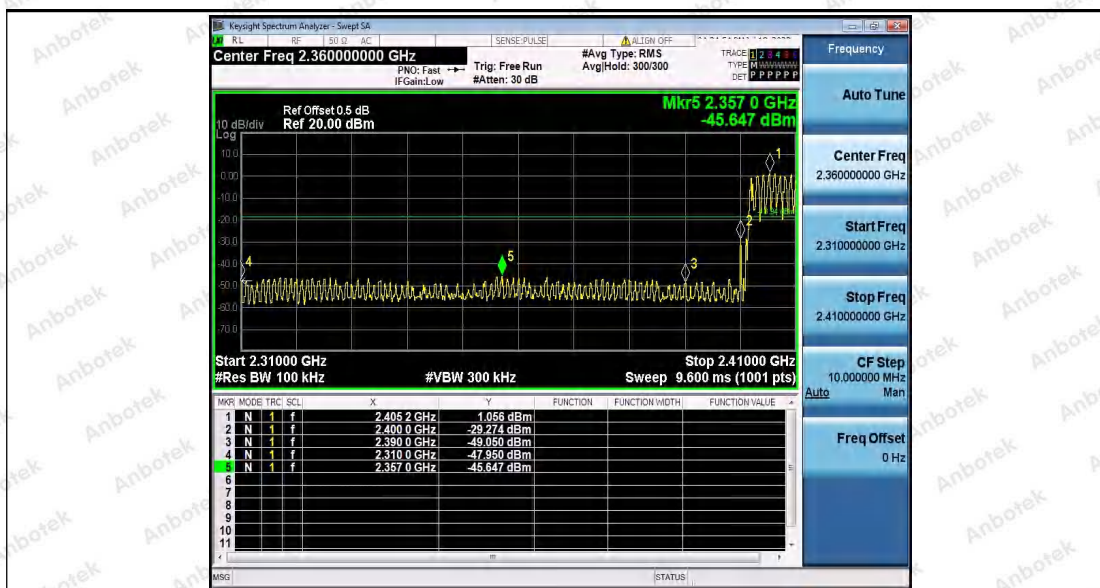
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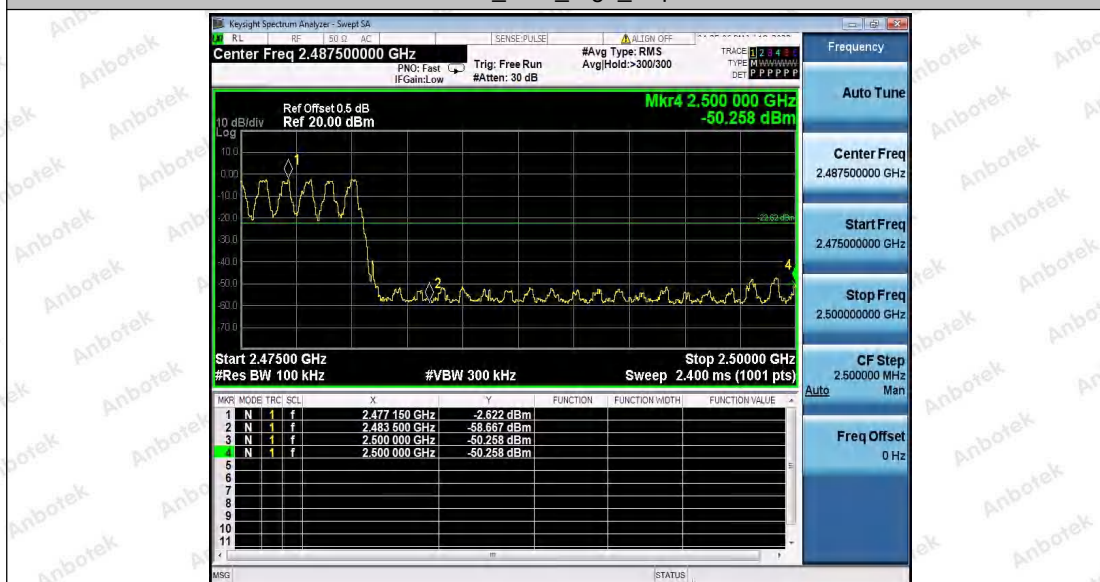
DH5_Ant1_High_2480



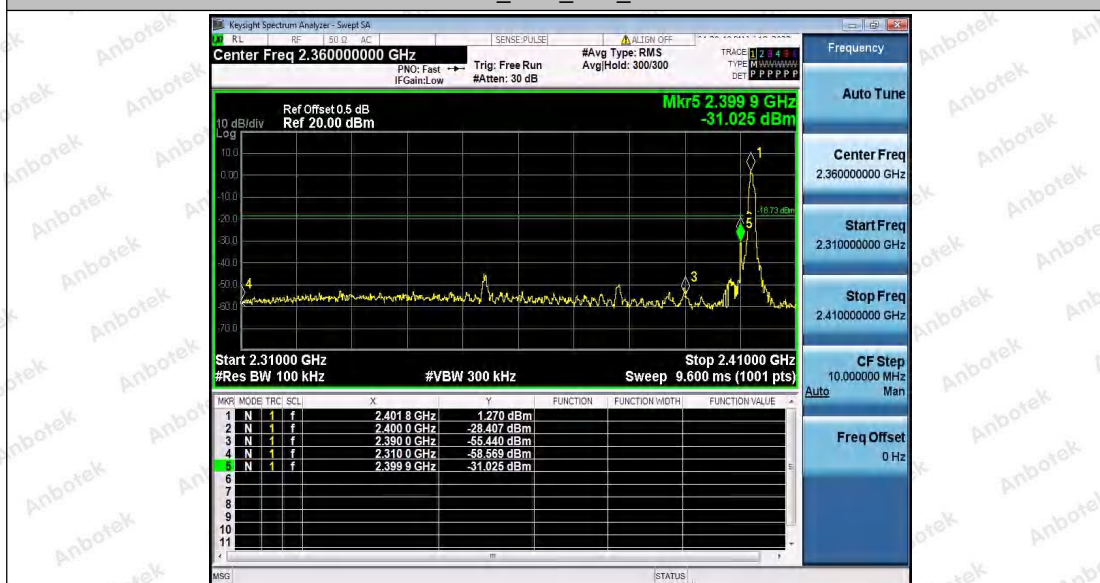
DH5_Ant1_Low_Hop



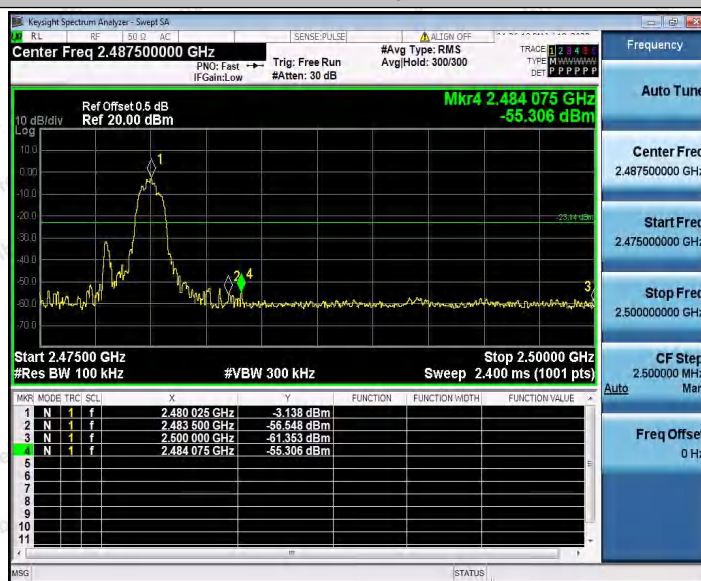
DH5_Ant1_High_Hop



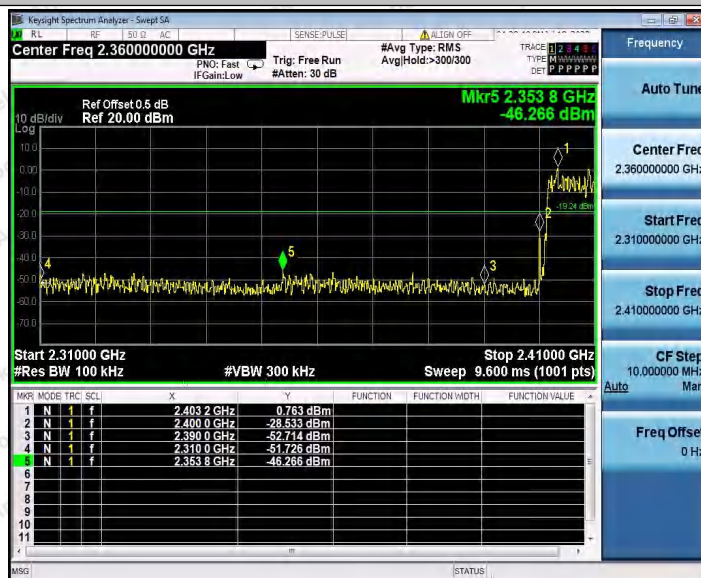
2DH5_Ant1_Low_2402



2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop

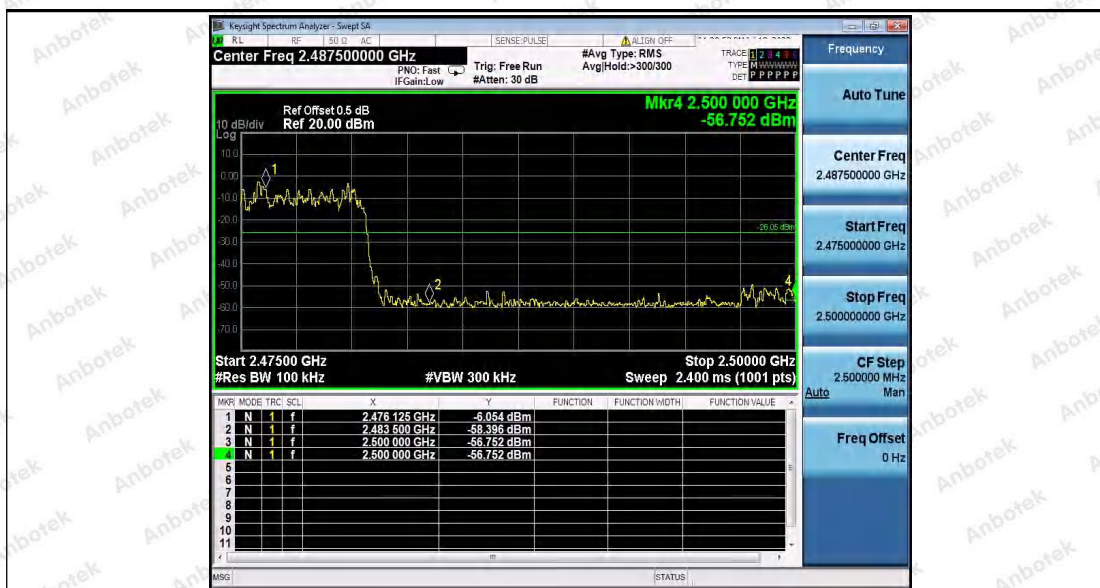


2DH5_Ant1_High_Hop

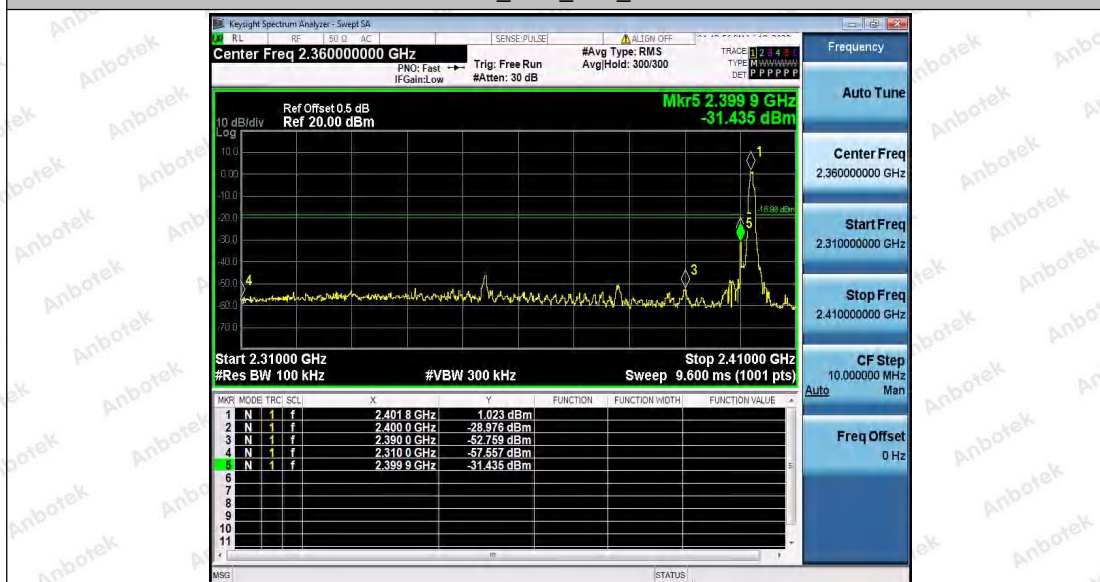
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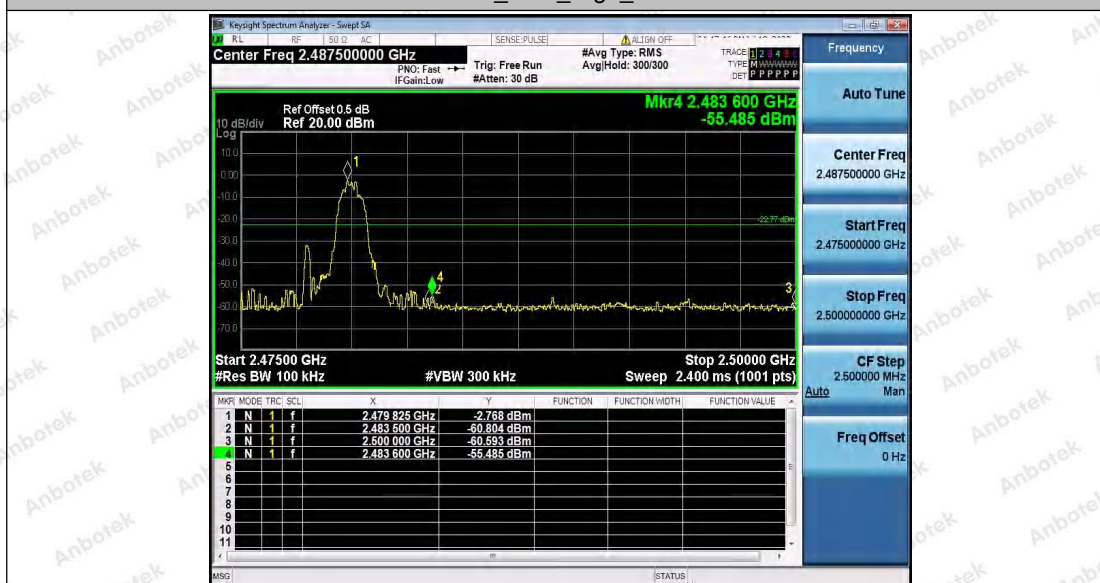
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3DH5_Ant1_Low_2402



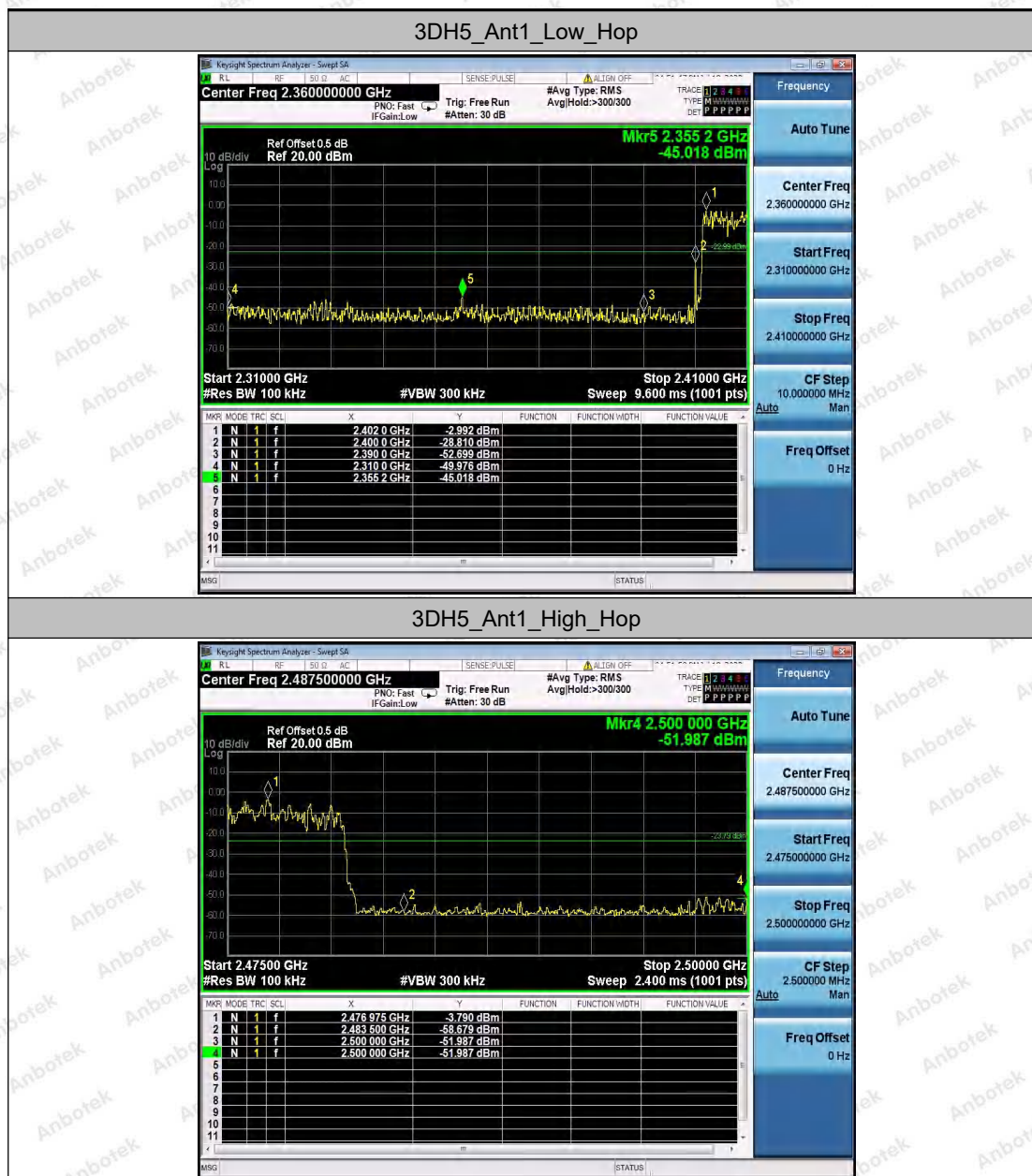
3DH5_Ant1_High_2480



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Appendix H: Conducted Spurious Emission

Test Result

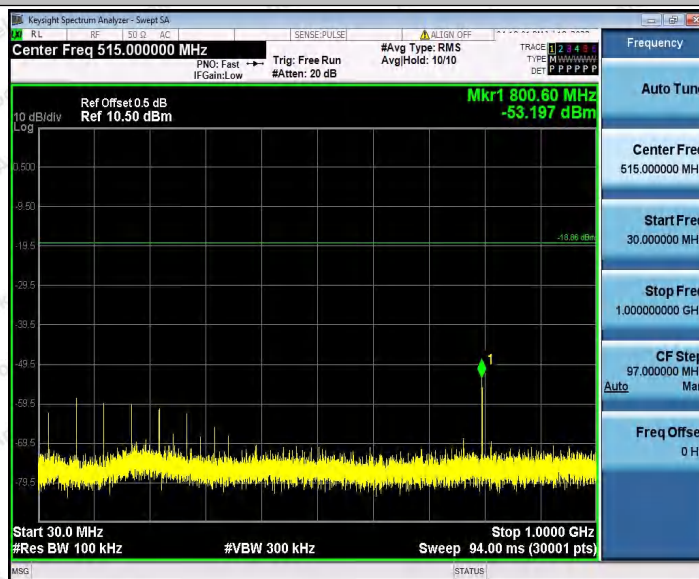
Test Mode	Antenna	Channel	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.14	1.14	---	PASS
			30~1000	1.14	-53.2	≤ -18.86	PASS
			1000~26500	1.14	-31.62	≤ -18.86	PASS
		2441	Reference	-0.88	-0.88	---	PASS
			30~1000	-0.88	-53.13	≤ -20.88	PASS
			1000~26500	-0.88	-35.02	≤ -20.88	PASS
		2480	Reference	-2.68	-2.68	---	PASS
			30~1000	-2.68	-55.63	≤ -22.68	PASS
			1000~26500	-2.68	-38.31	≤ -22.68	PASS
2DH5	Ant1	2402	Reference	1.15	1.15	---	PASS
			30~1000	1.15	-55.94	≤ -18.85	PASS
			1000~26500	1.15	-37.58	≤ -18.85	PASS
		2441	Reference	-1.48	-1.48	---	PASS
			30~1000	-1.48	-56.67	≤ -21.48	PASS
			1000~26500	-1.48	-40.13	≤ -21.48	PASS
		2480	Reference	-2.94	-2.94	---	PASS
			30~1000	-2.94	-58.19	≤ -22.94	PASS
			1000~26500	-2.94	-45.63	≤ -22.94	PASS
3DH5	Ant1	2402	Reference	0.93	0.93	---	PASS
			30~1000	0.93	-54.25	≤ -19.07	PASS
			1000~26500	0.93	-32.42	≤ -19.07	PASS
		2441	Reference	-1.27	-1.27	---	PASS
			30~1000	-1.27	-56.3	≤ -21.27	PASS
			1000~26500	-1.27	-40.8	≤ -21.27	PASS
		2480	Reference	-2.84	-2.84	---	PASS
			30~1000	-2.84	-58.16	≤ -22.84	PASS
			1000~26500	-2.84	-42.98	≤ -22.84	PASS

Test Graphs

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



DH5_Ant1_2402_1000~26500

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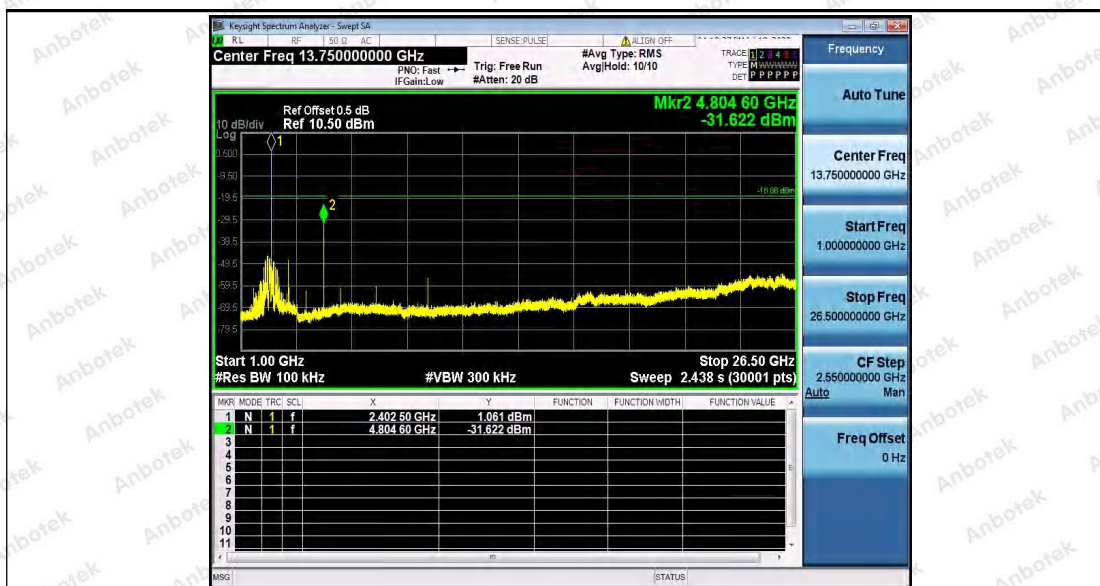
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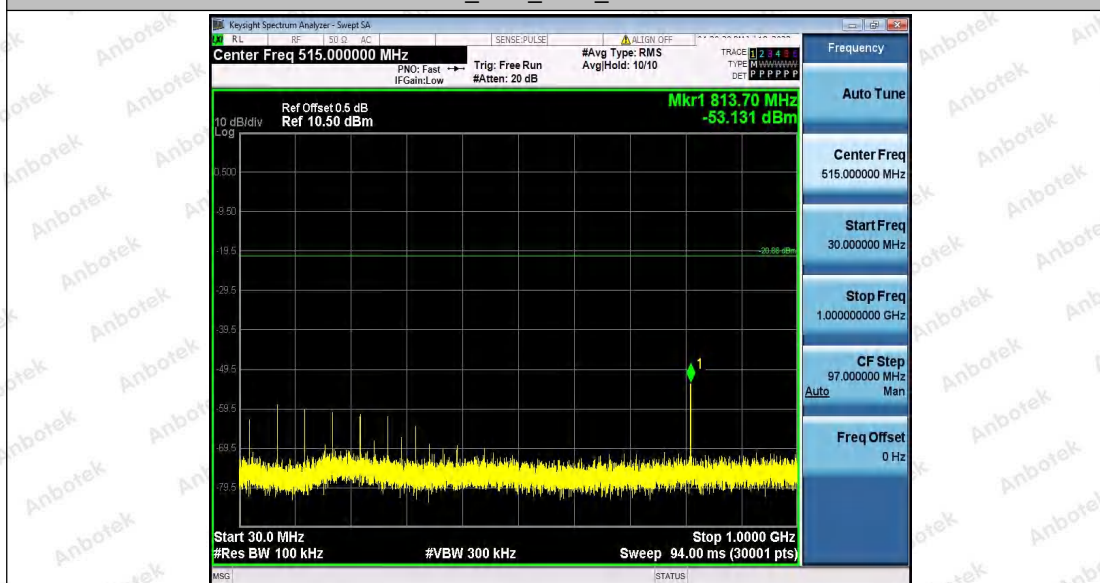
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



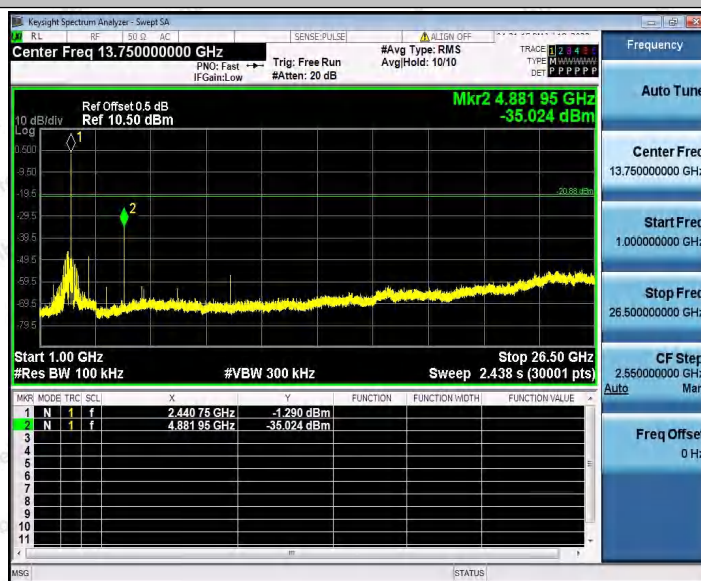
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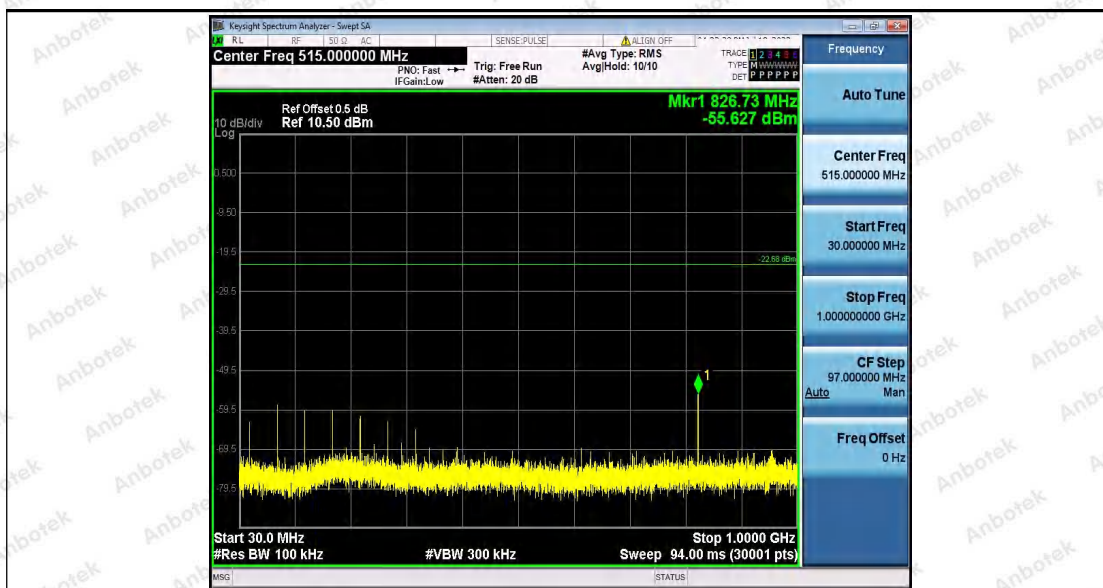
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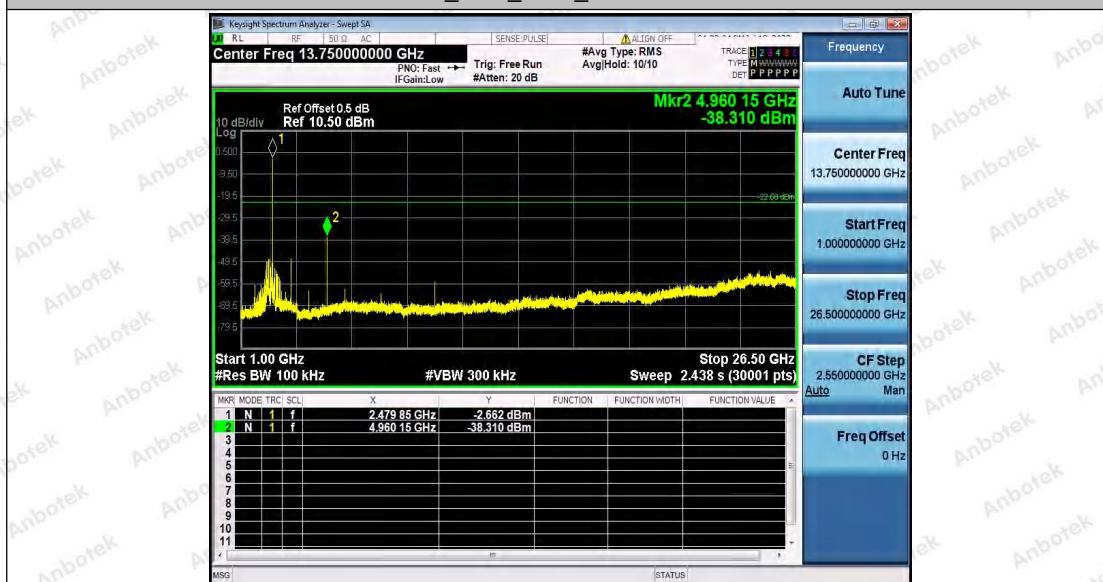
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DH5_Ant1_2480_30~1000

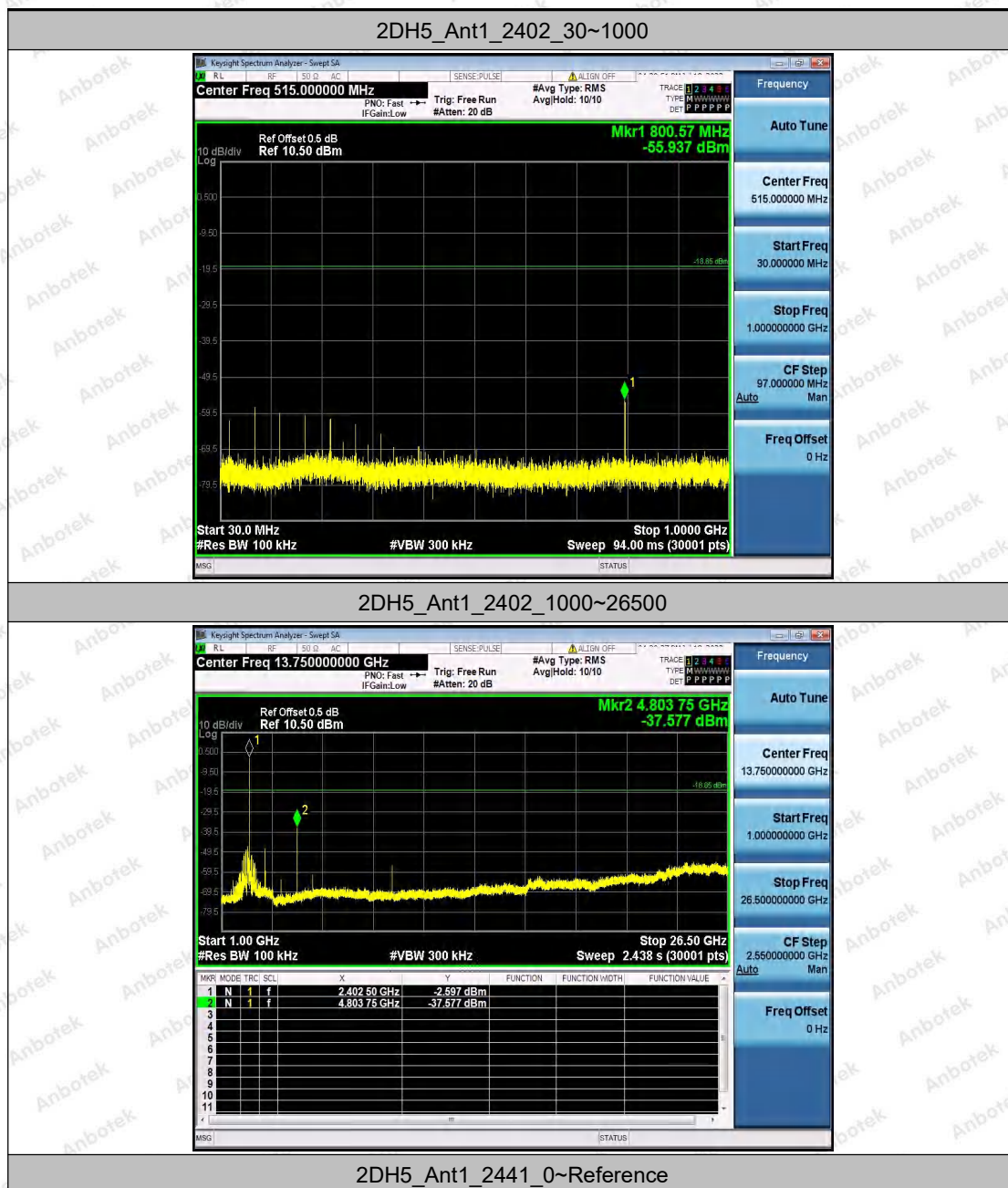


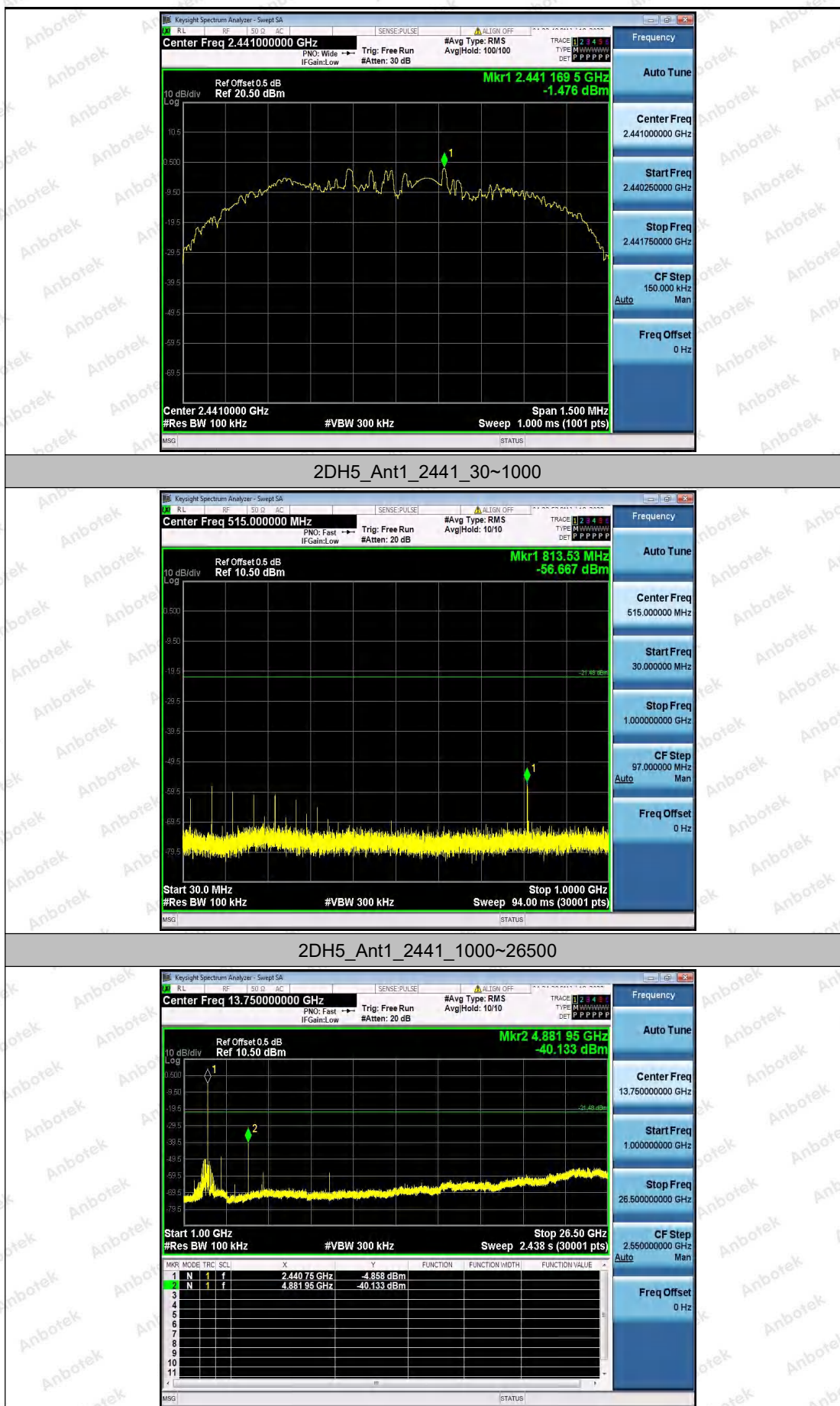
DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference







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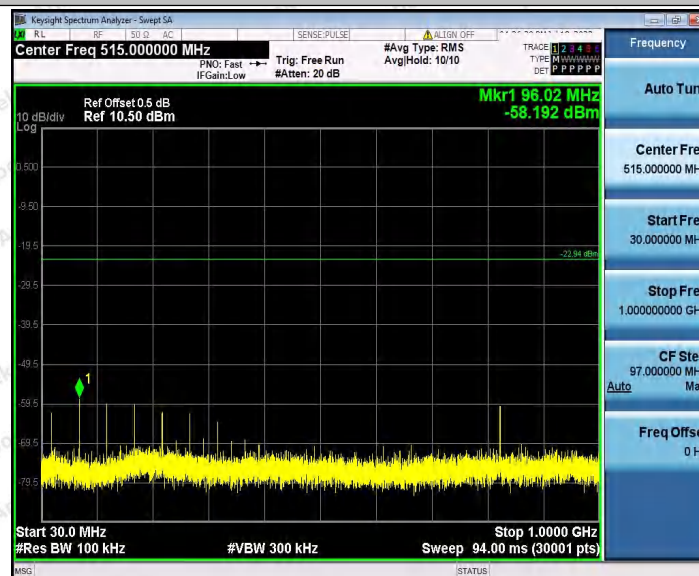
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

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400-003-0500
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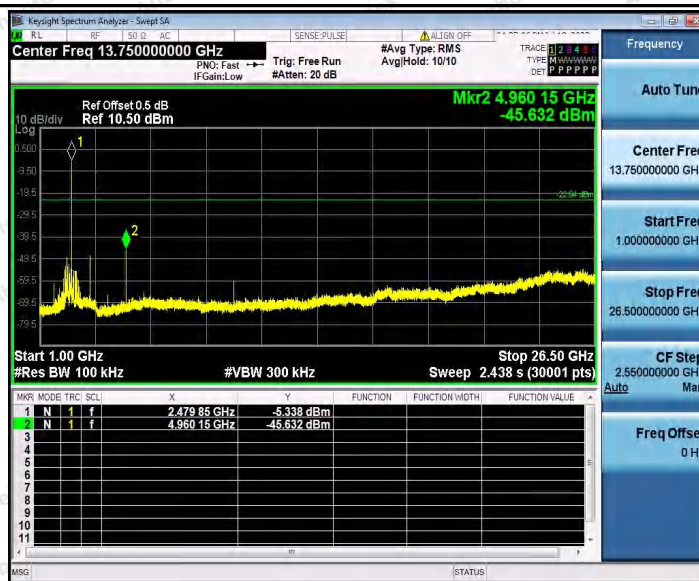
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



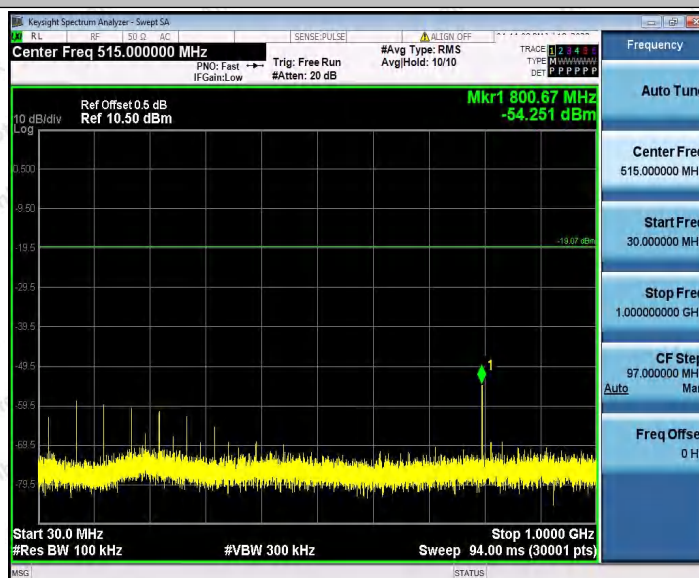
2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000

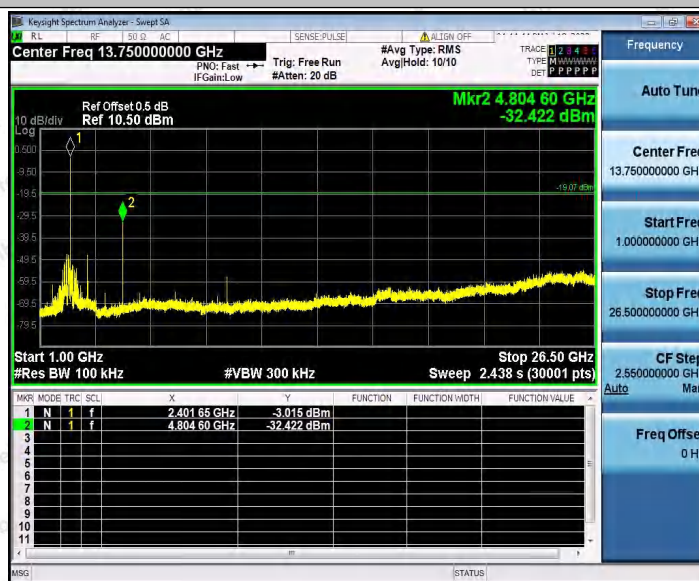


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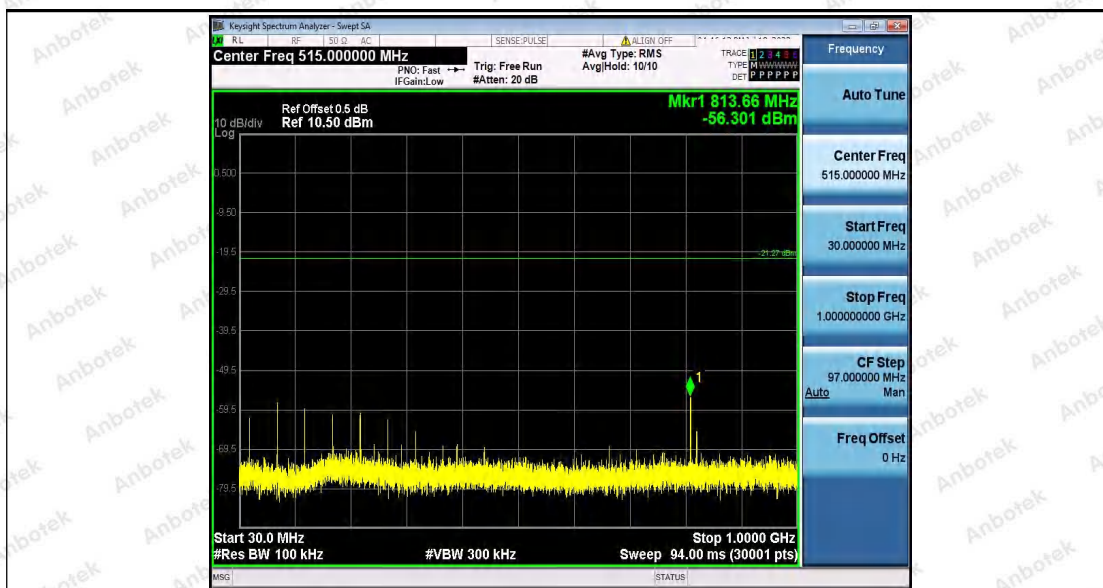
3DH5_Ant1_2402_1000~26500



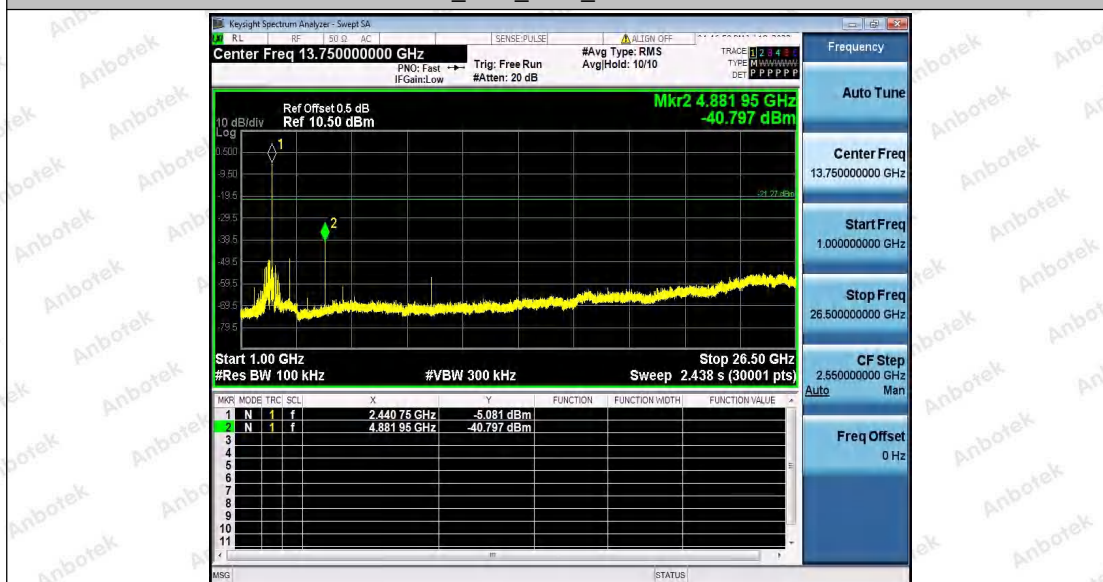
3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500



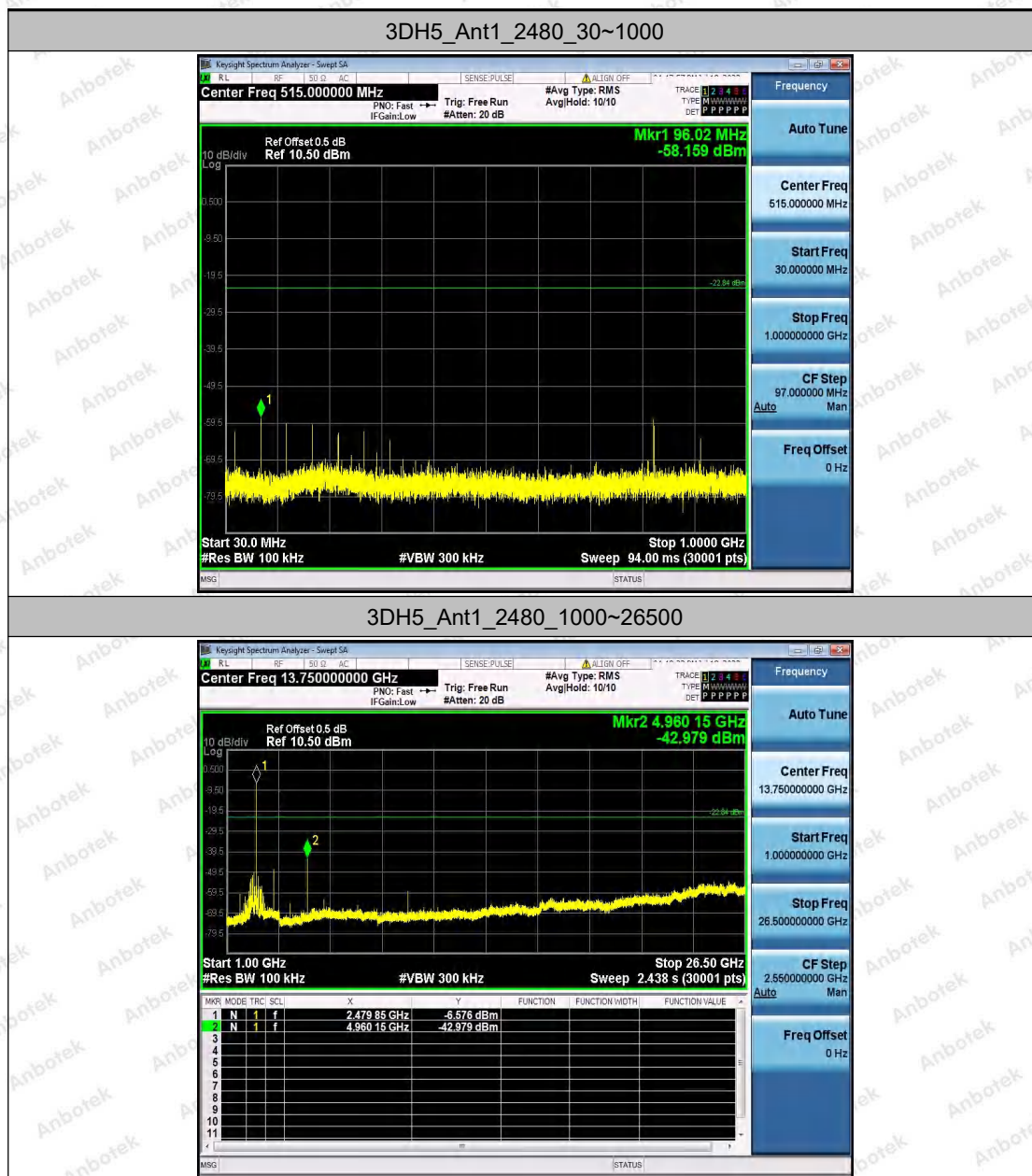
3DH5_Ant1_2480_0~Reference



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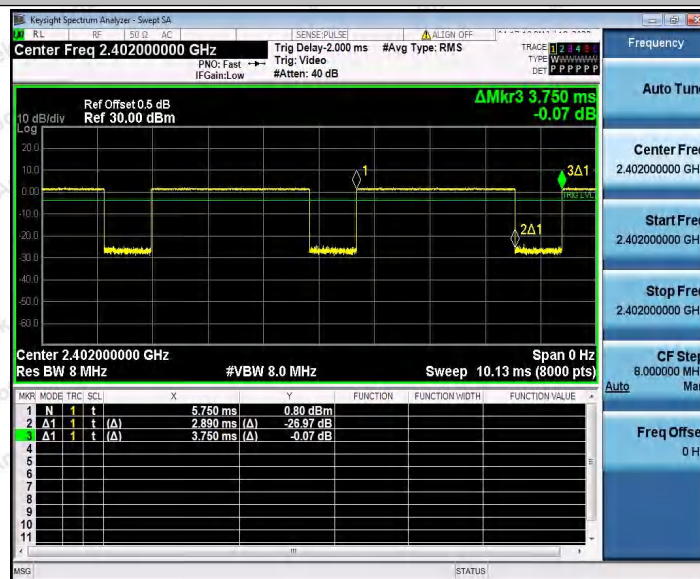
Appendix I: Duty Cycle

Test Result

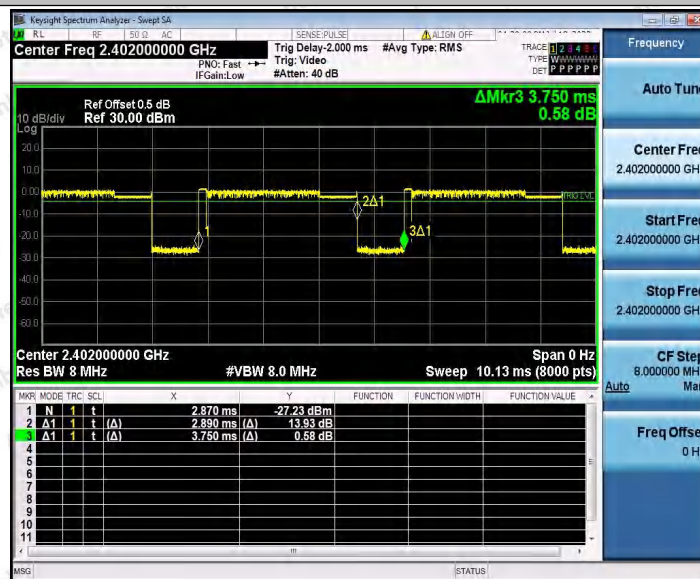
Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	x Factor	Limit	Verdict
DH5	Ant1	2402	2.89	3.75	0.7707	77.07	1.13	---	PASS
2DH5	Ant1	2402	2.89	3.75	0.7707	77.07	1.13	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.7707	77.07	1.13	---	PASS

Test Graphs

DH5_Ant1_2402



2DH5_Ant1_2402

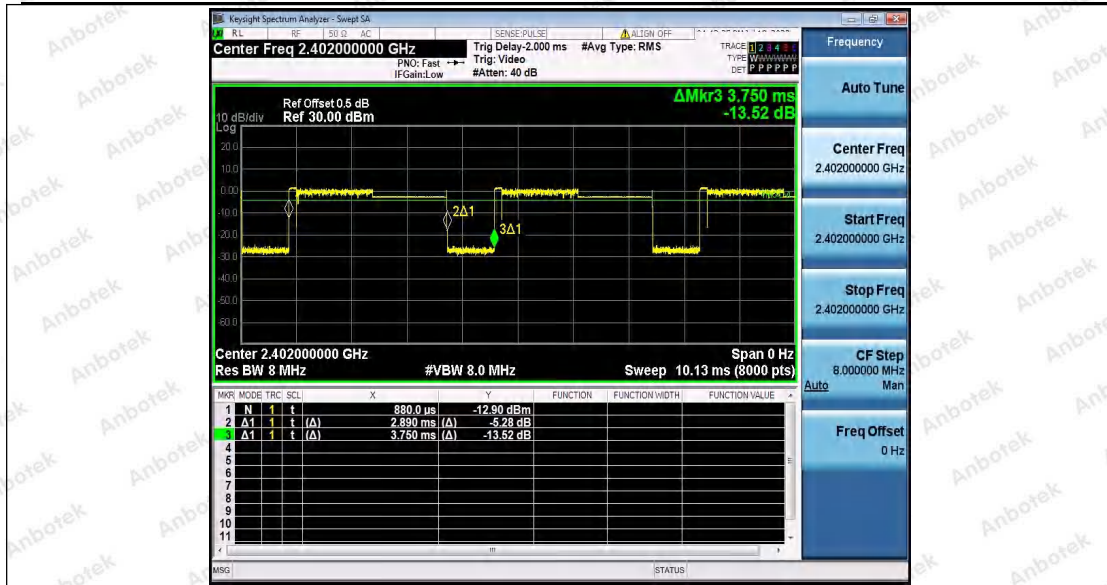


3DH5_Ant1_2402

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---End---