

Appendix Test Data

Report No.:	18220WC20088701	Test Sample No.:	1-2-2
Start Test Date:	2022.4.24	Finish Test Date:	2022.4.27
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	56 %
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	2401.544	2402.489	---	PASS
		2441	0.942	2440.541	2441.483	---	PASS
		2480	0.942	2479.544	2480.486	---	PASS
2DH5	Ant1	2402	1.338	2401.334	2402.672	---	PASS
		2441	1.272	2440.364	2441.636	---	PASS
		2480	1.320	2479.340	2480.660	---	PASS
3DH5	Ant1	2402	1.296	2401.349	2402.645	---	PASS
		2441	1.323	2440.334	2441.657	---	PASS
		2480	1.269	2479.355	2480.624	---	PASS

Test Graphs


DH5_Ant1_2441
DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



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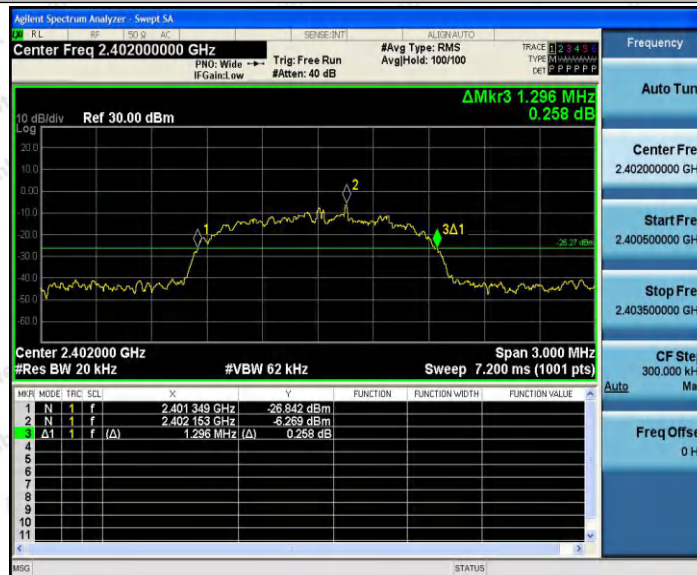
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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3DH5_Ant1_2480



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Appendix B: Occupied Channel Bandwidth

Test Result

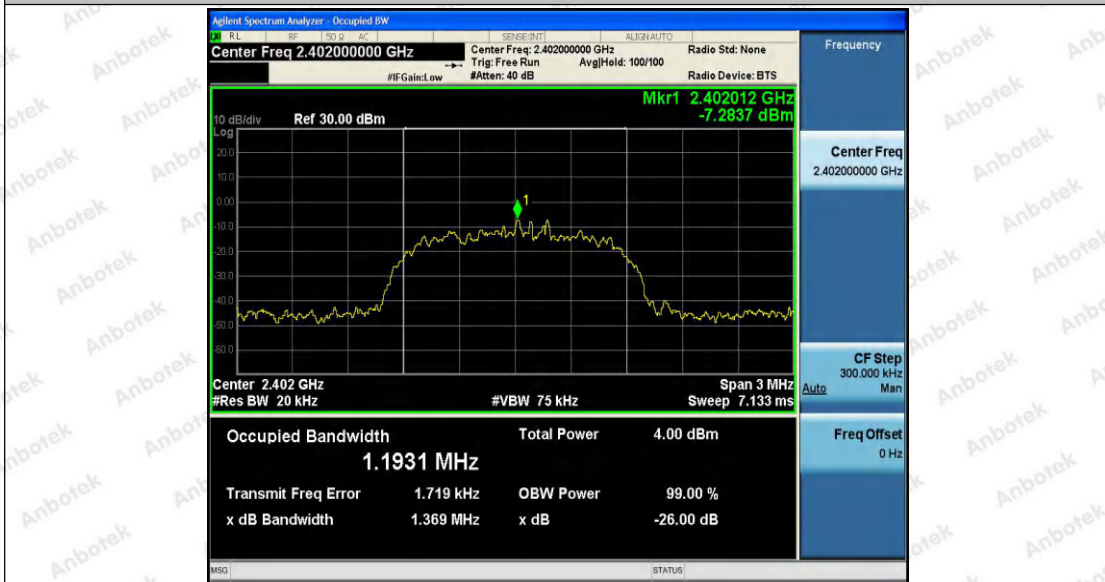
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88711	2401.56 0	2402.447	---	PASS
		2441	0.88887	2440.56 0	2441.449	---	PASS
		2480	0.88886	2479.55 9	2480.448	---	PASS
2DH5	Ant1	2402	1.1931	2401.40 5	2402.598	---	PASS
		2441	1.1996	2440.40 2	2441.602	---	PASS
		2480	1.2050	2479.40 0	2480.605	---	PASS
3DH5	Ant1	2402	1.2098	2401.38 7	2402.597	---	PASS
		2441	1.2030	2440.39 3	2441.596	---	PASS
		2480	1.2056	2479.39 1	2480.596	---	PASS

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441

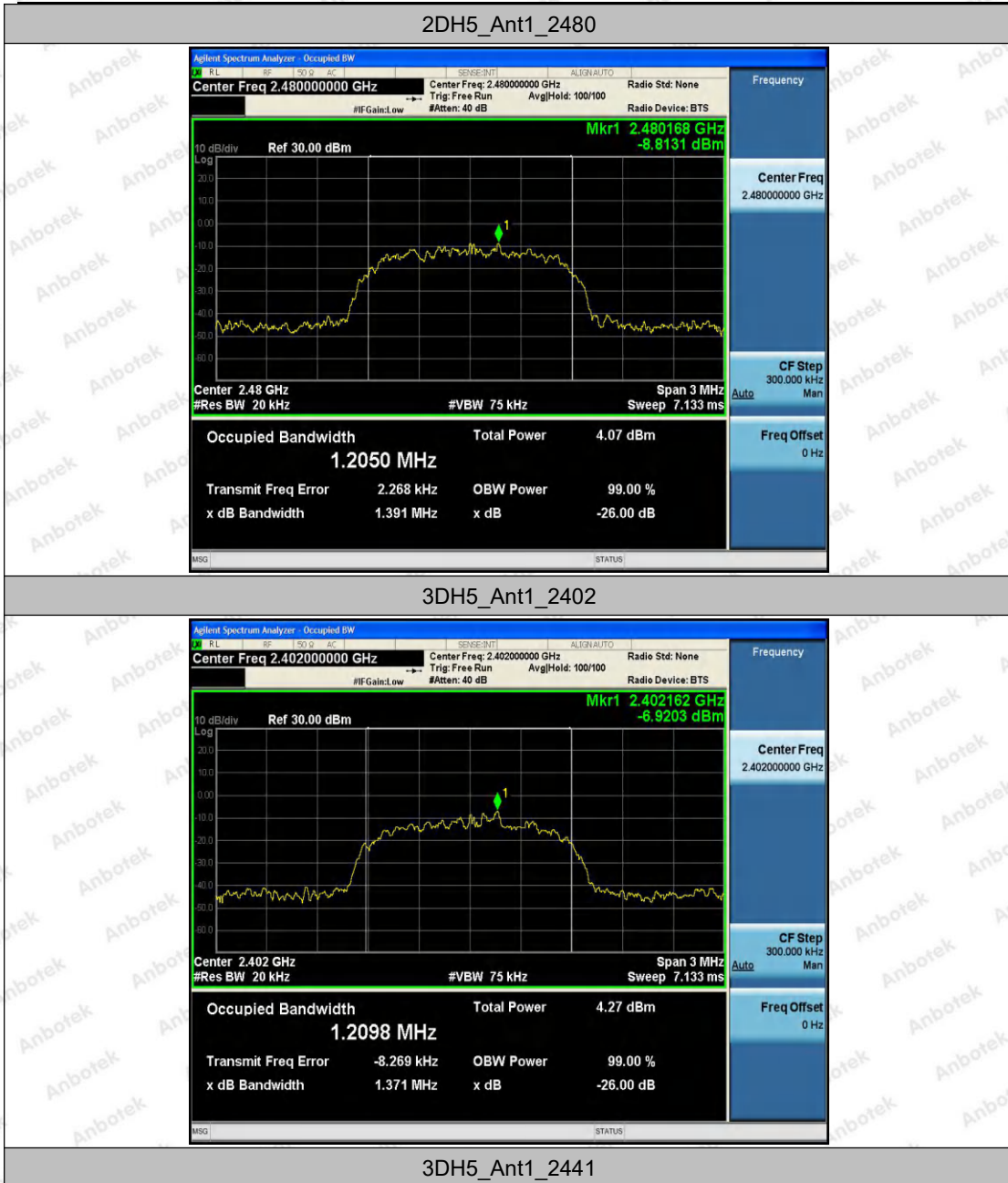


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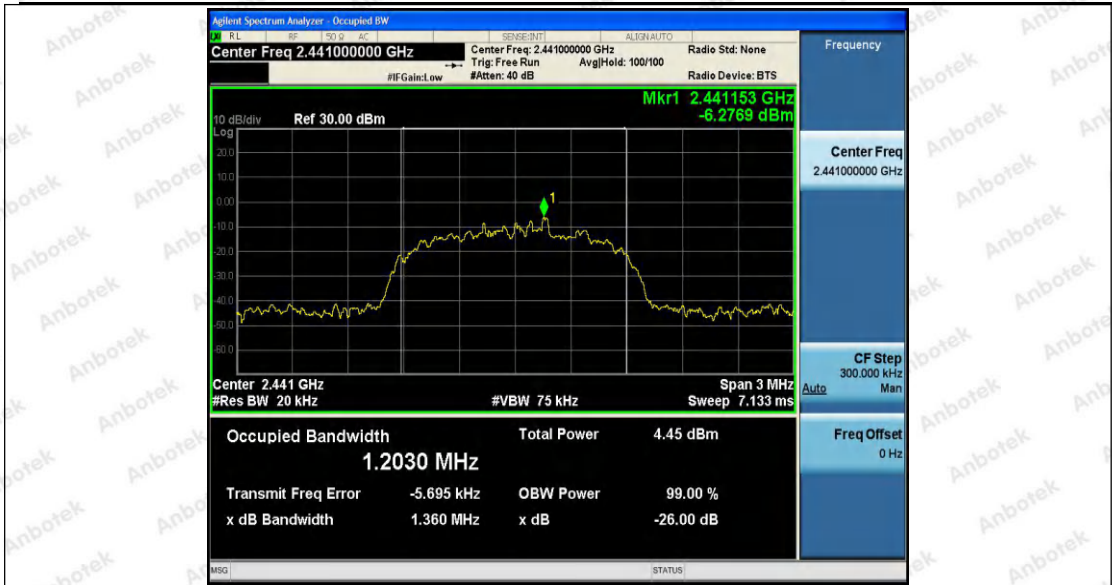


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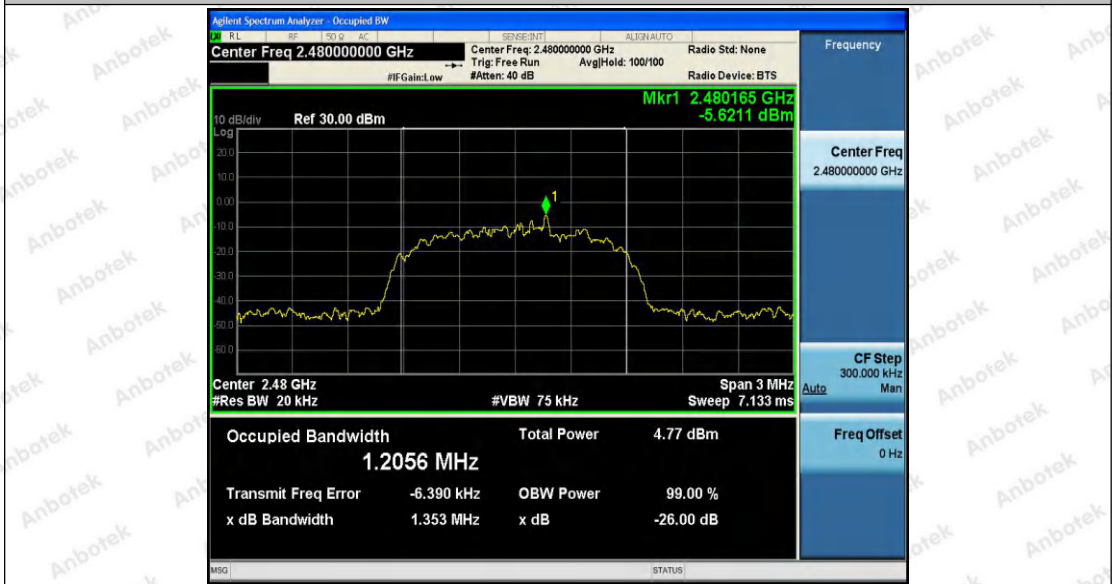
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3DH5_Ant1_2480



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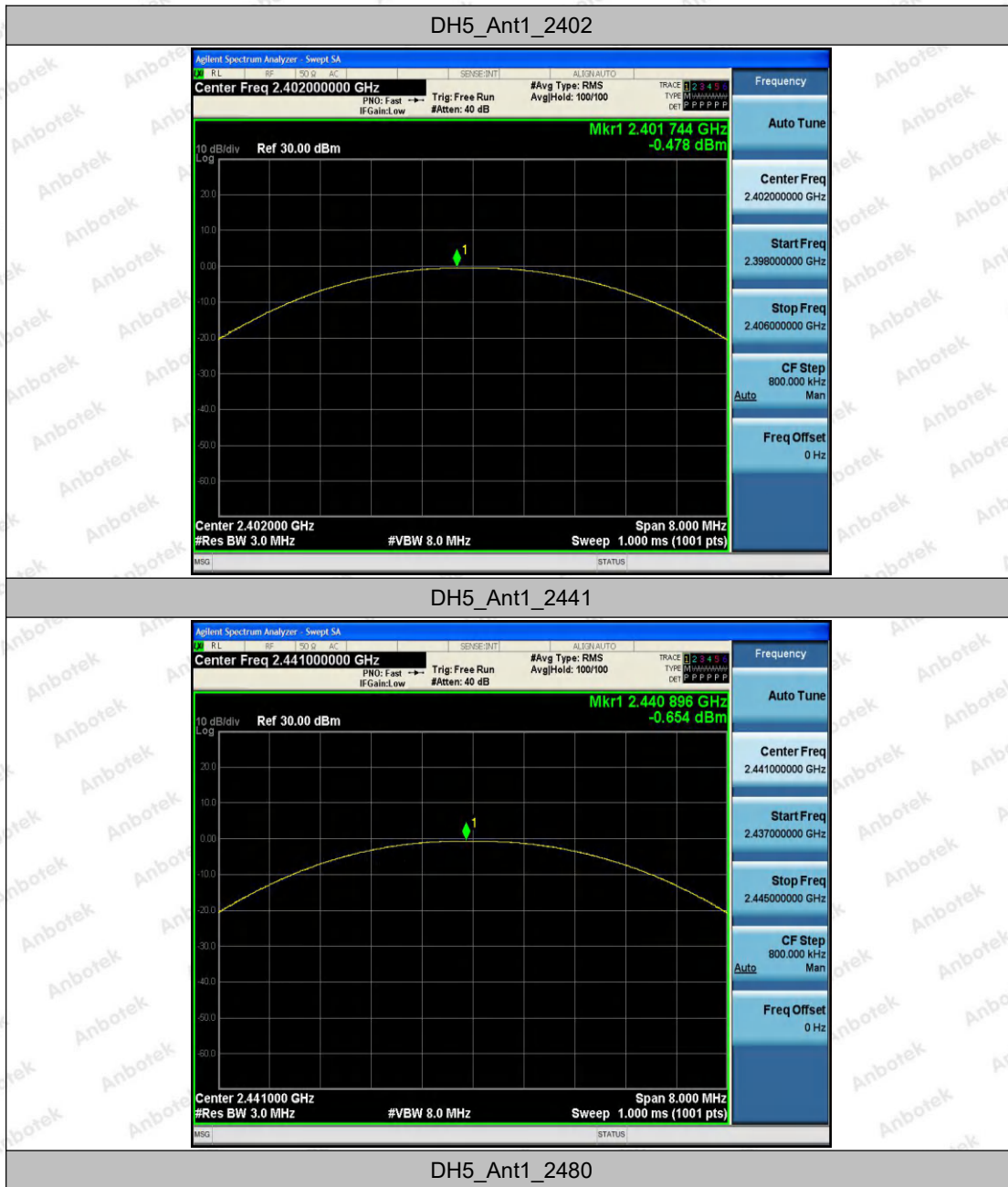
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.48	≤30	PASS
		2441	-0.65	≤30	PASS
		2480	-0.02	≤30	PASS
2DH5	Ant1	2402	-1.18	≤20.97	PASS
		2441	-1.09	≤20.97	PASS
		2480	-0.76	≤20.97	PASS
3DH5	Ant1	2402	-0.77	≤20.97	PASS
		2441	-0.96	≤20.97	PASS
		2480	-0.35	≤20.97	PASS

Test Graphs



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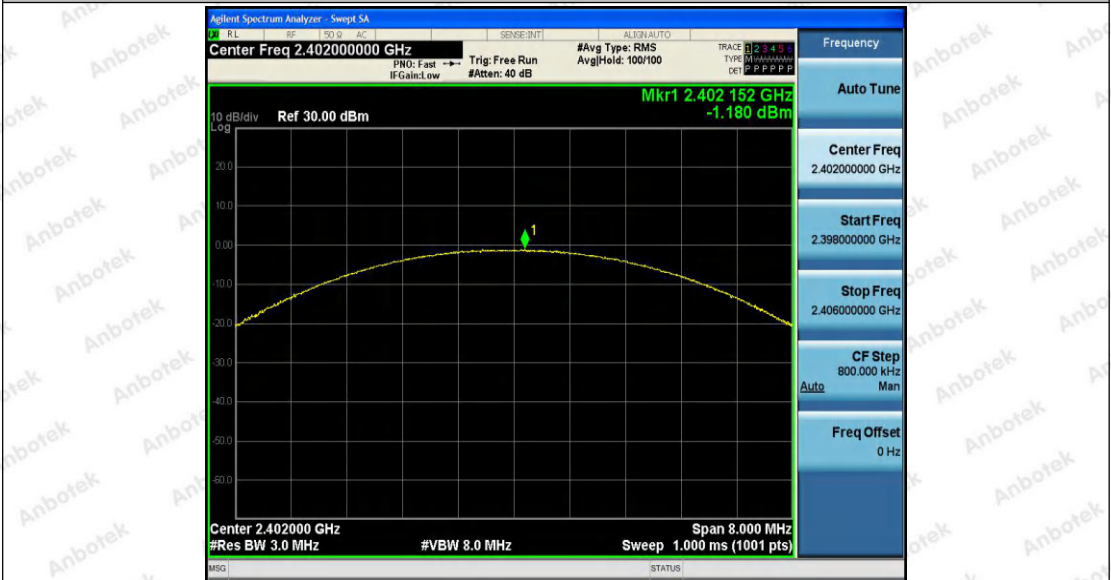
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2DH5_Ant1_2402



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	1.006	≥0.945	PASS
2DH5	Ant1	Hop	1.034	≥0.892	PASS
3DH5	Ant1	Hop	1.314	≥0.882	PASS

Test Graphs

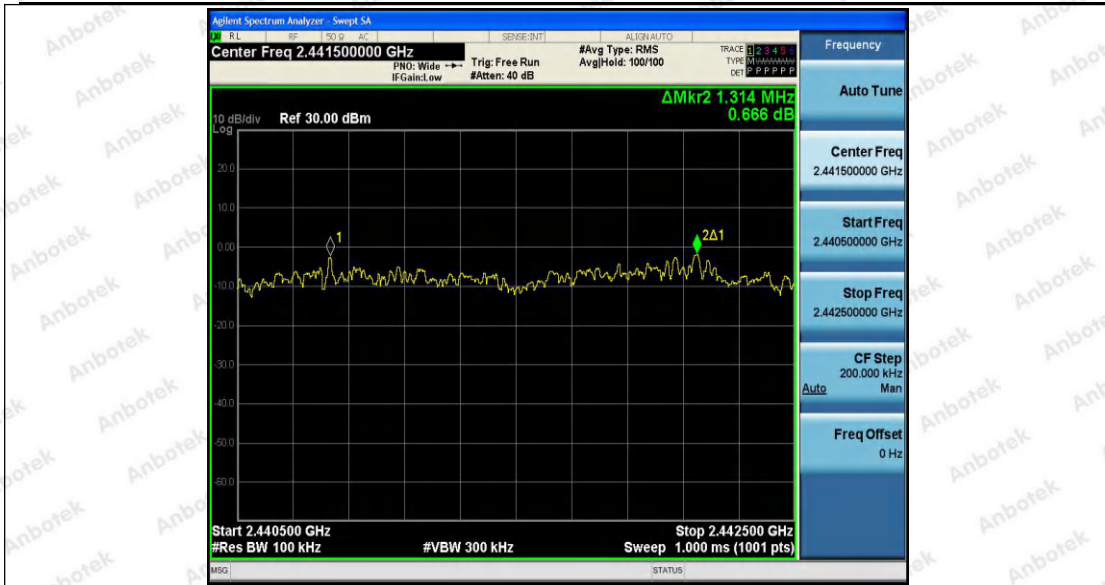


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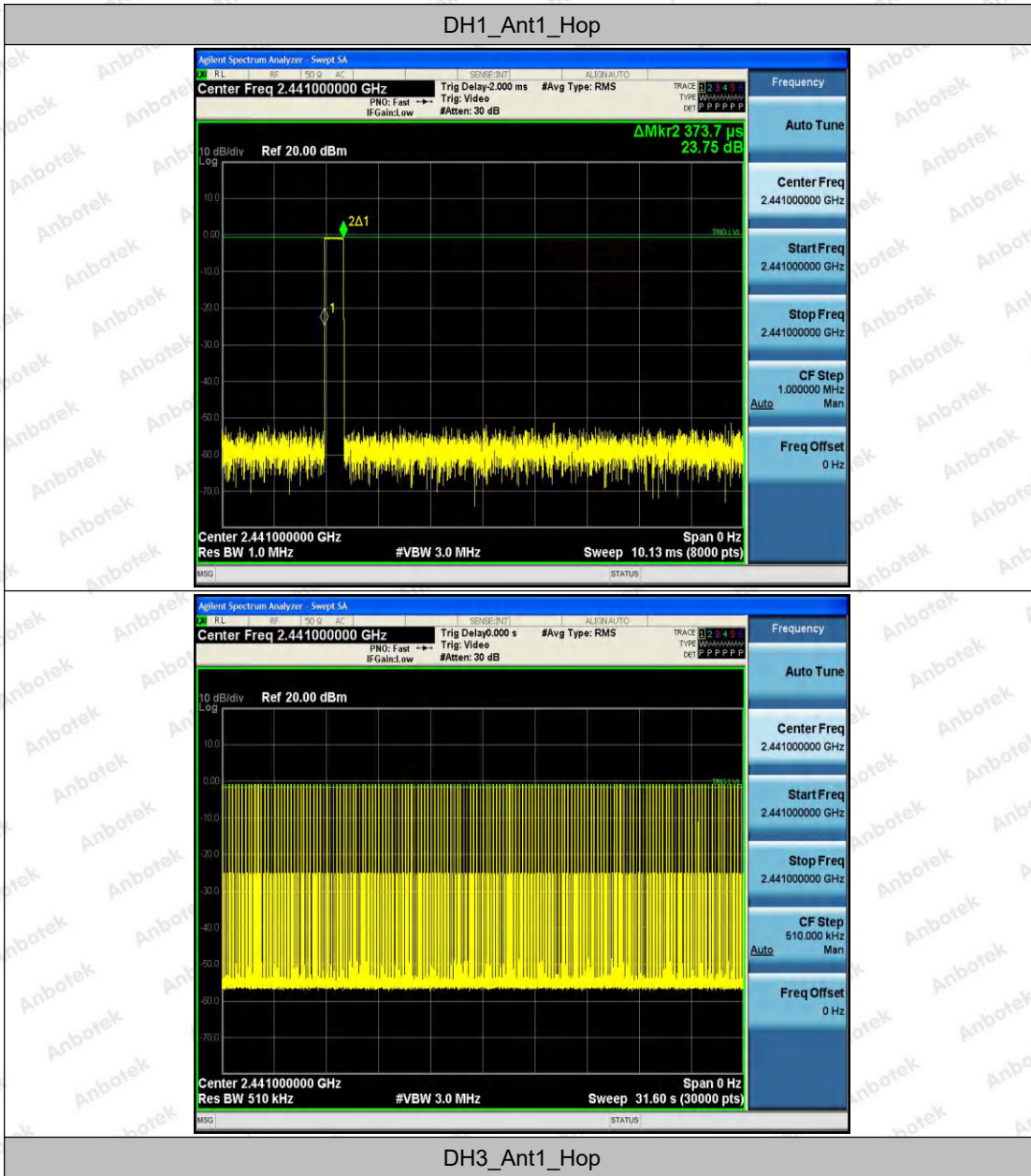
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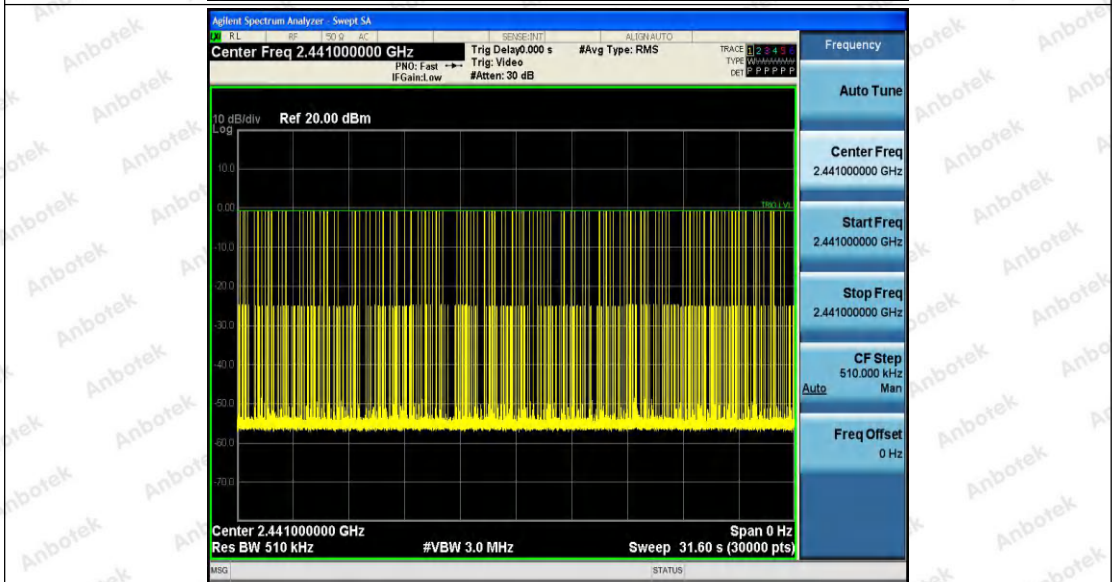
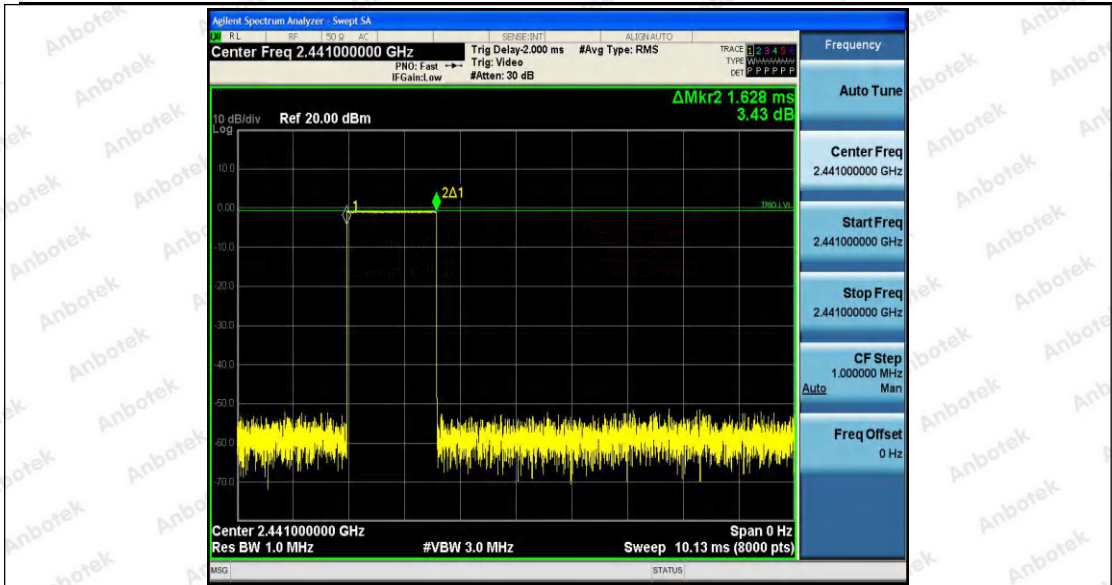
Appendix E: Time of occupancy

Test Result

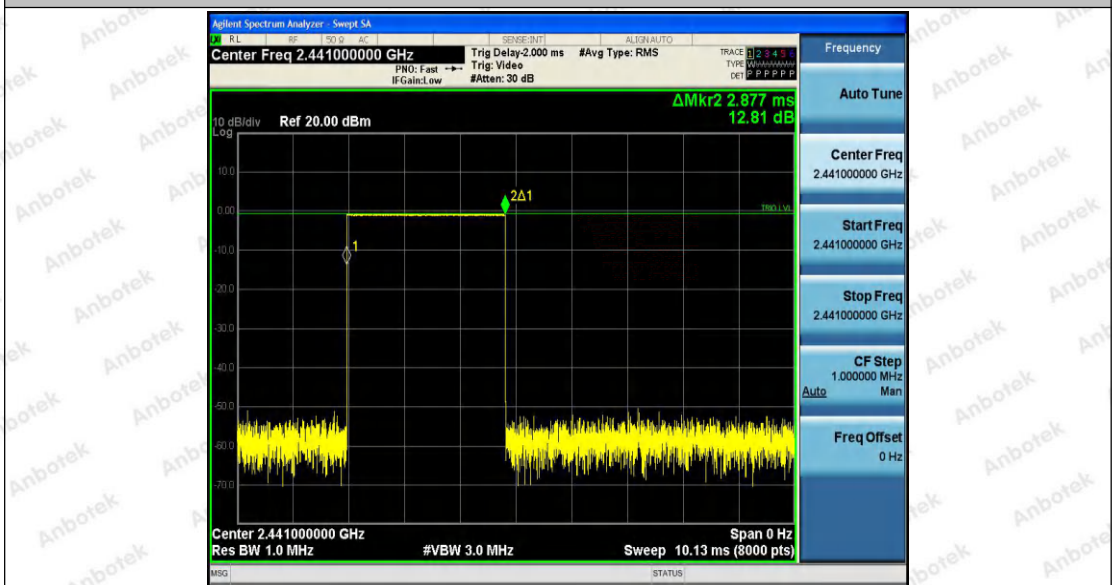
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	312	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.88	99	0.285	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
2DH5	Ant1	Hop	2.88	103	0.297	≤0.4	PASS
3DH1	Ant1	Hop	0.38	314	0.12	≤0.4	PASS
3DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
3DH5	Ant1	Hop	2.88	99	0.285	≤0.4	PASS

Test Graphs





DH5_Ant1_Hop

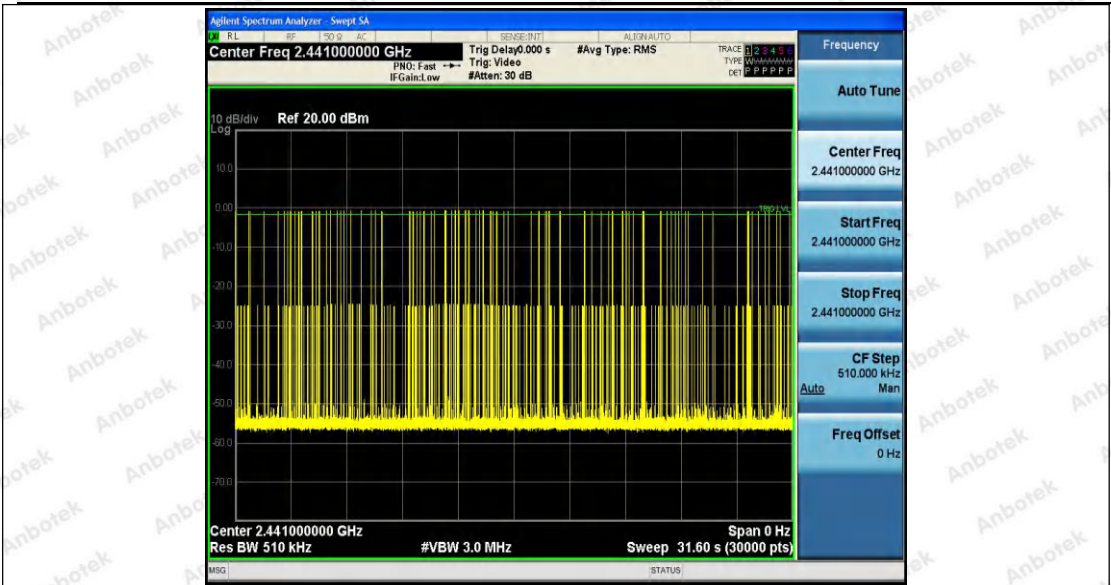


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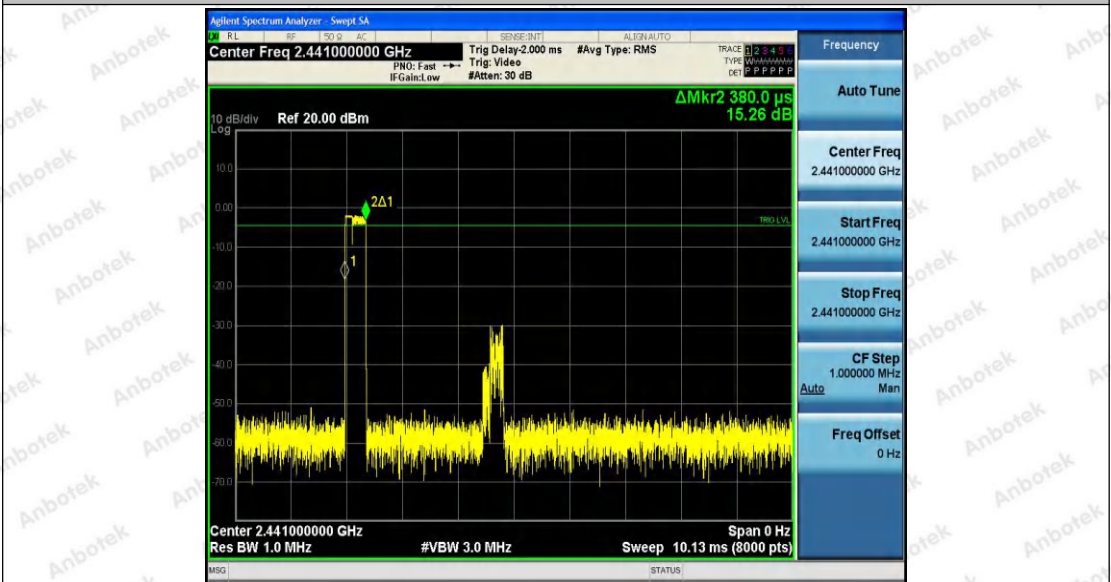
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2DH1_Ant1_Hop

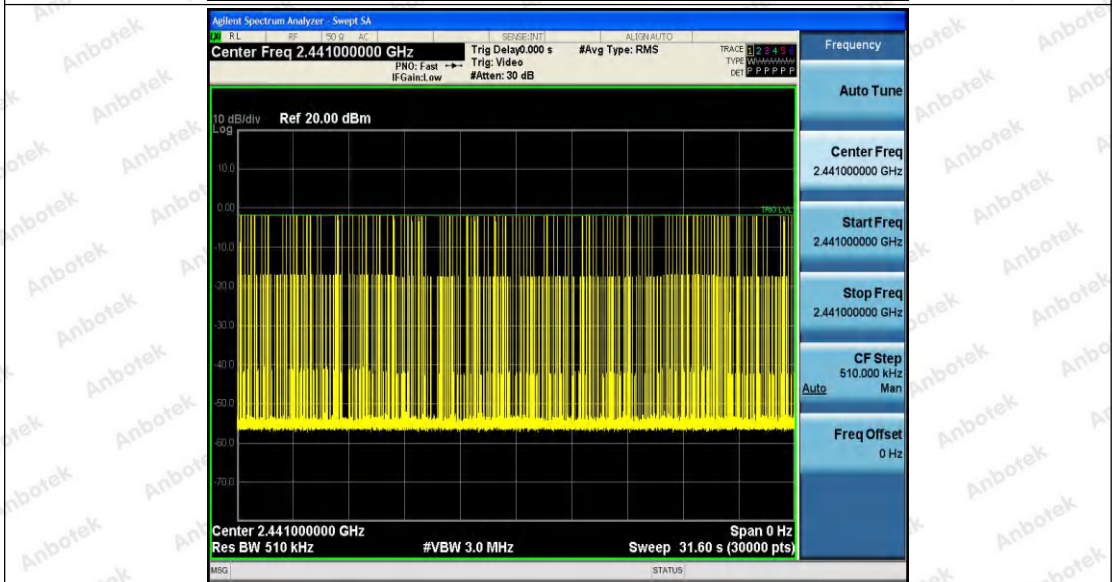
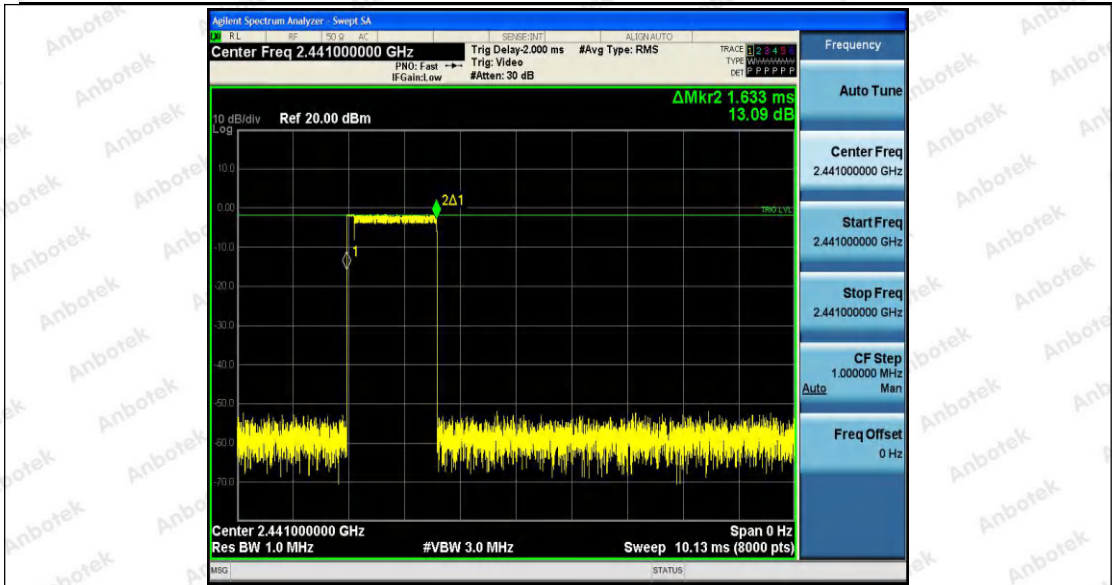


2DH3_Ant1_Hop

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2DH5_Ant1_Hop

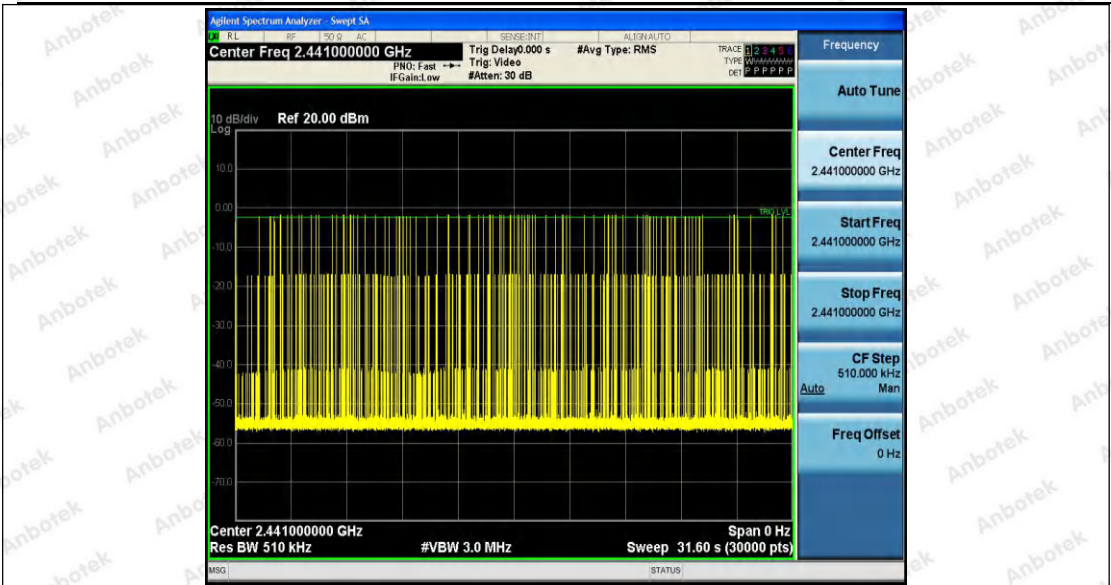


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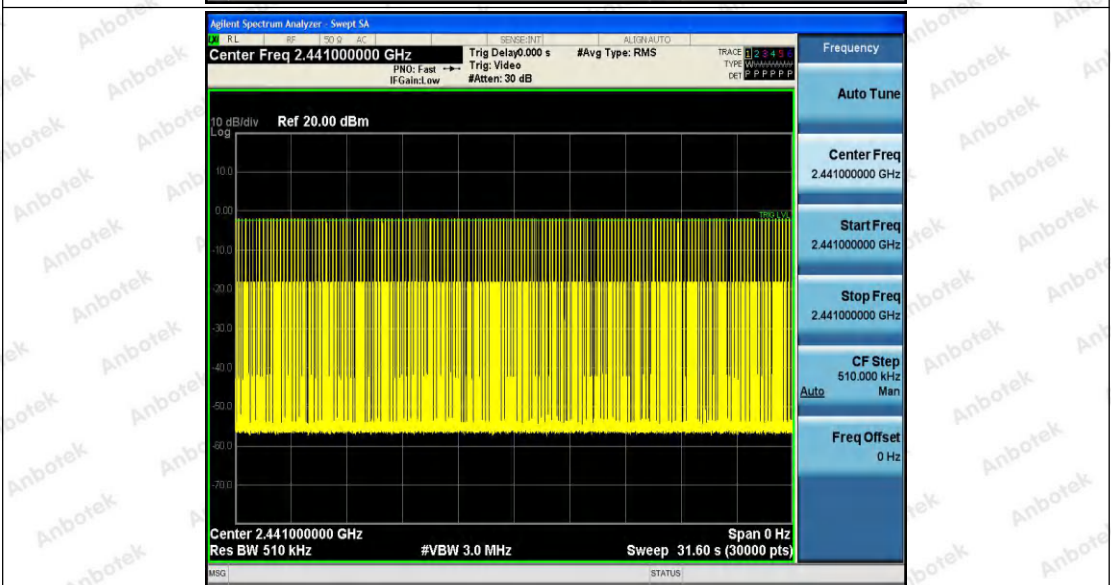
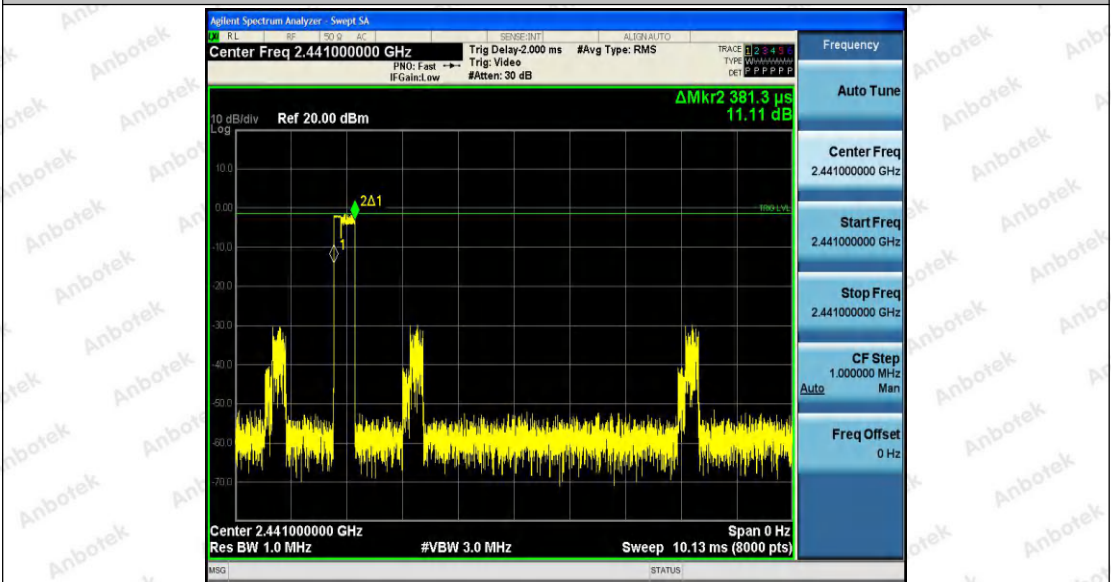
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3DH1_Ant1_Hop



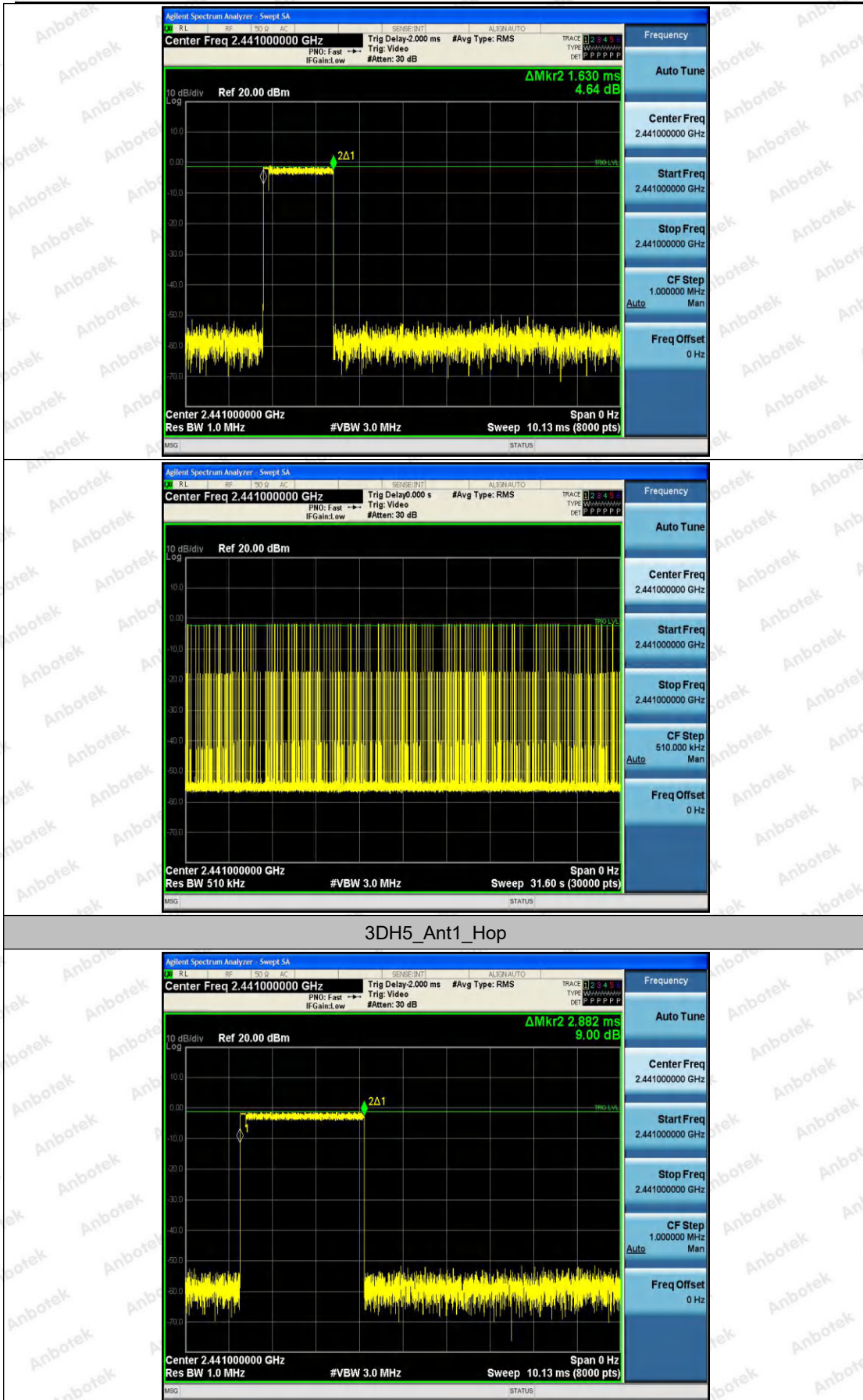
3DH3_Ant1_Hop

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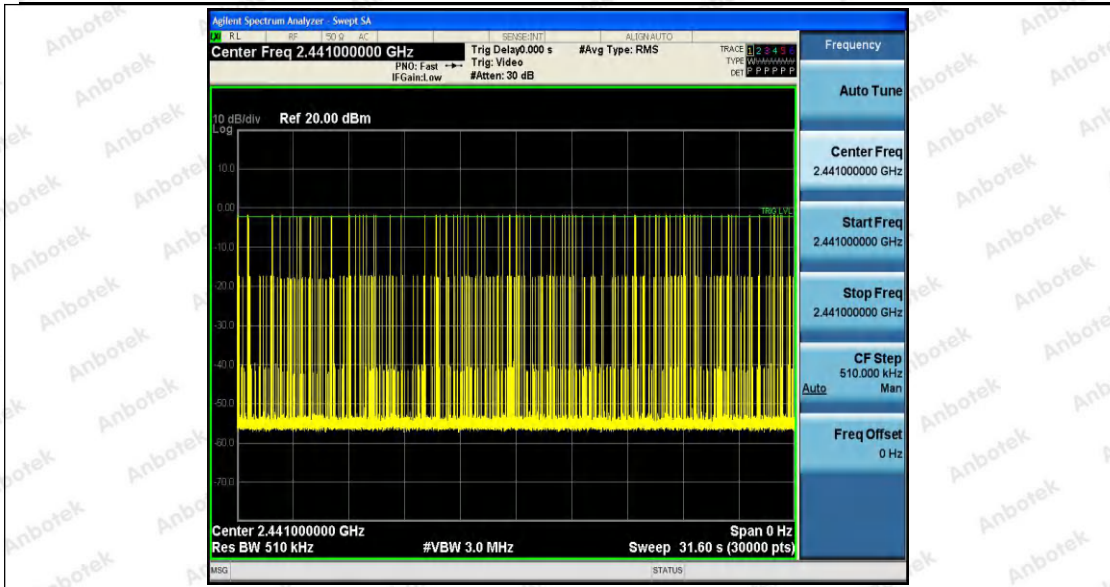
3DH5_Ant1_Hop

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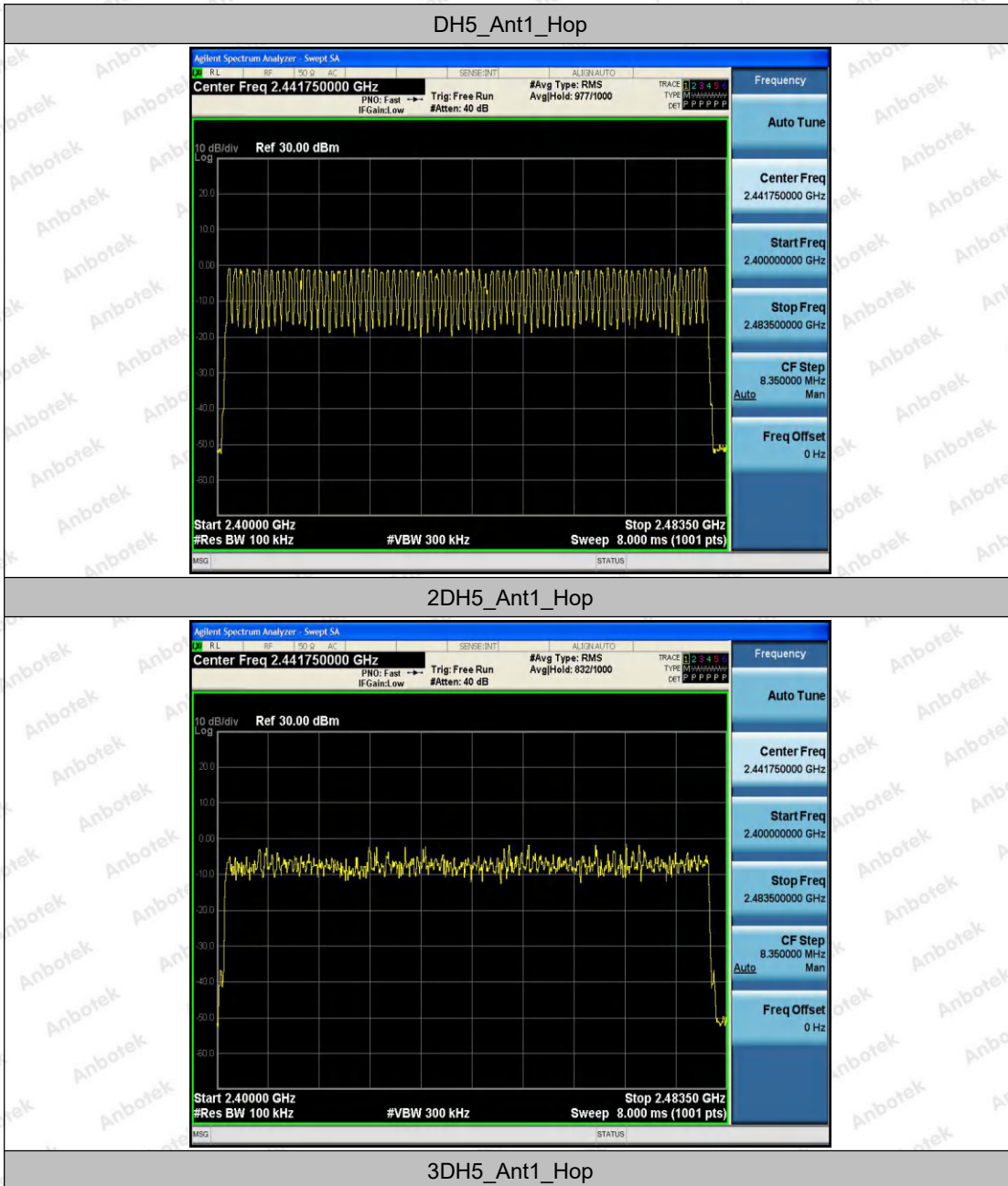
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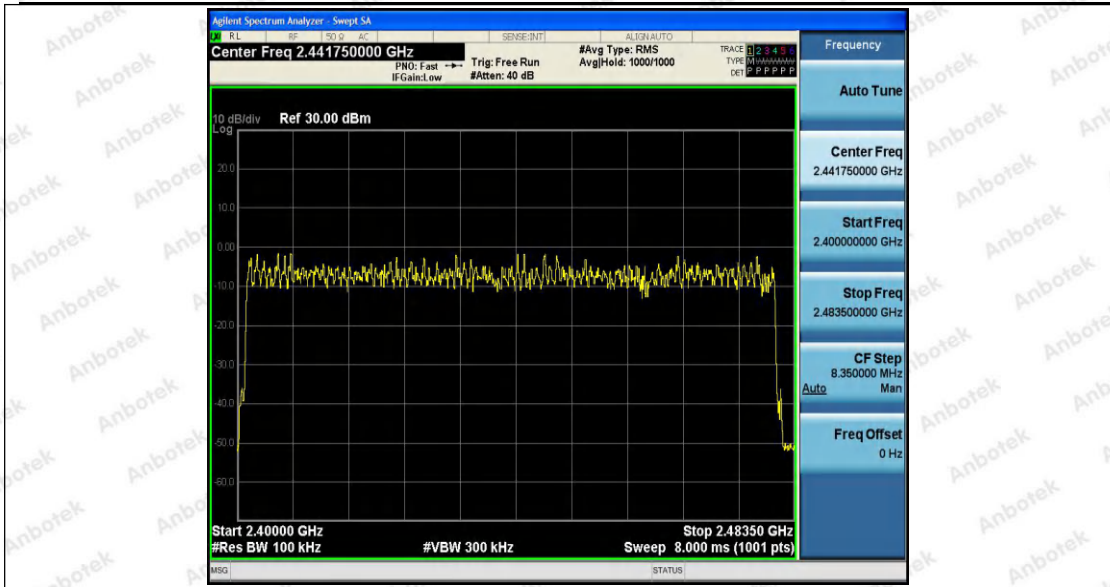
Appendix F: Number of hopping channels

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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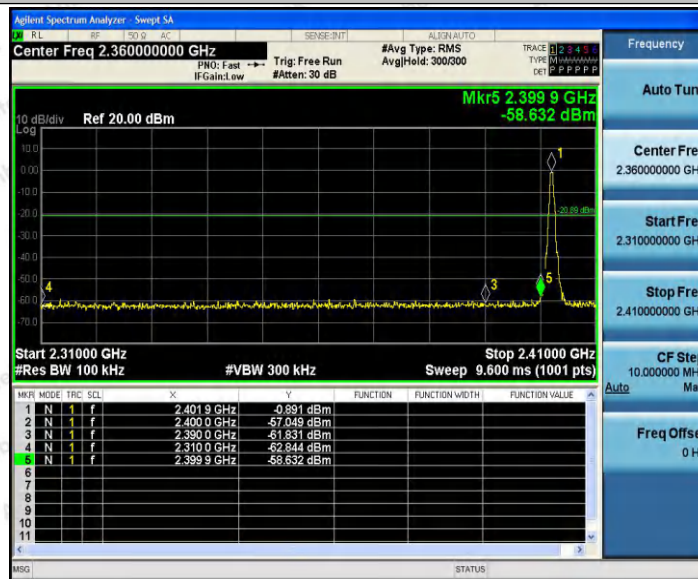
Appendix G: Band edge measurements

Test Result

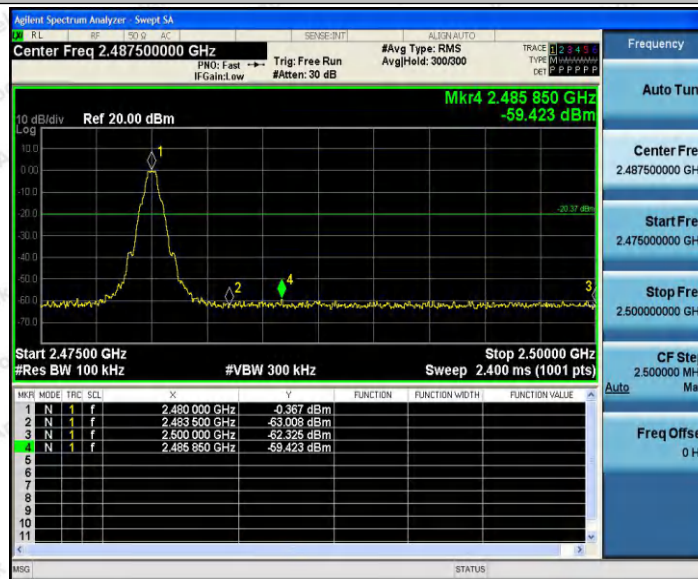
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.89	-58.63	≤-20.89	PASS
		High	2480	-0.37	-59.42	≤-20.37	PASS
		Low	Hop	-0.68	-59.74	≤-20.68	PASS
		High	Hop	-0.56	-60.09	≤-20.56	PASS
2DH5	Ant1	Low	2402	-1.63	-57.37	≤-21.63	PASS
		High	2480	-1.20	-59.03	≤-21.2	PASS
		Low	Hop	-3.47	-59.54	≤-23.47	PASS
		High	Hop	-1.14	-62.66	≤-21.14	PASS
3DH5	Ant1	Low	2402	-1.67	-57.23	≤-21.67	PASS
		High	2480	-1.46	-59.51	≤-21.46	PASS
		Low	Hop	-4.93	-59.39	≤-24.93	PASS
		High	Hop	-2.18	-61.27	≤-22.18	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



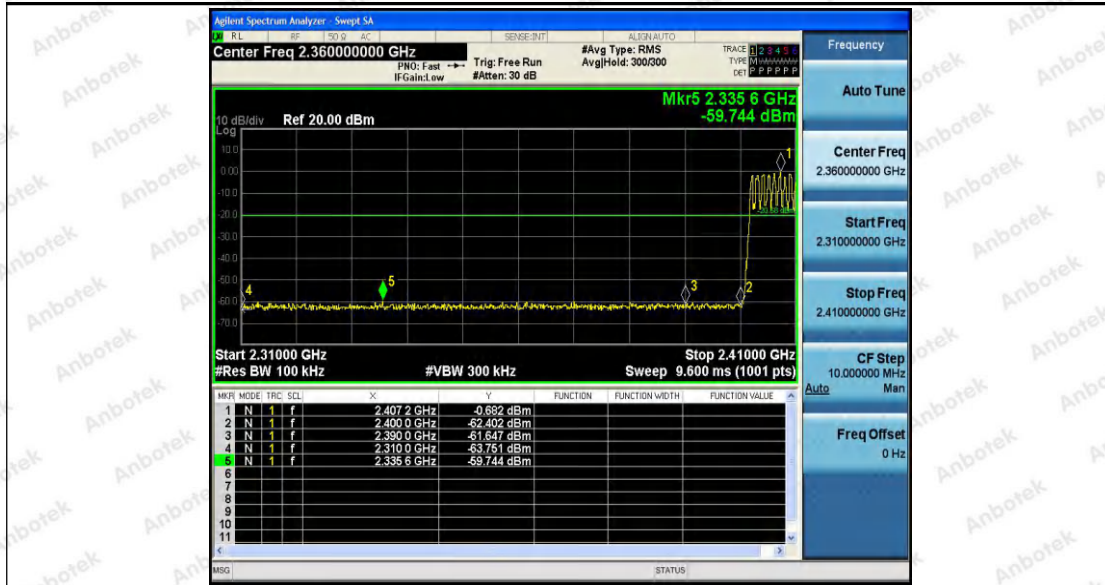
DH5_Ant1_Low_Hop

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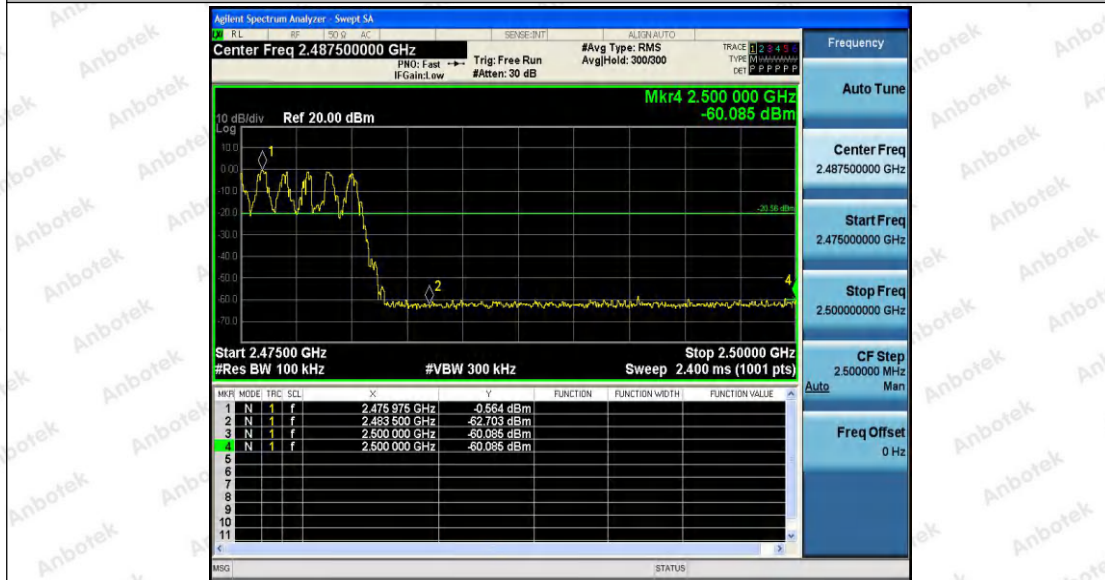
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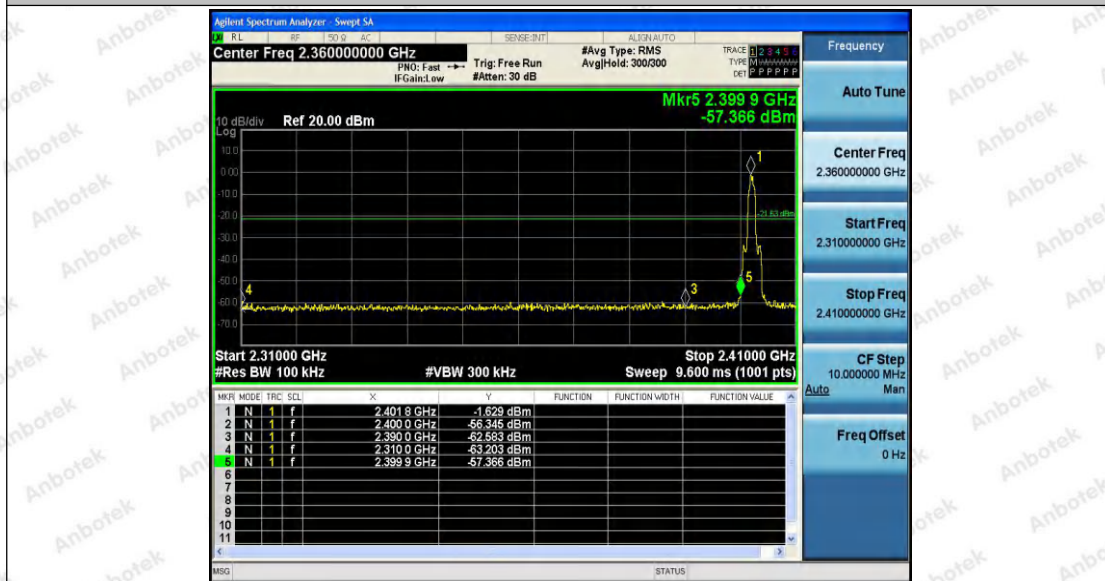
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402

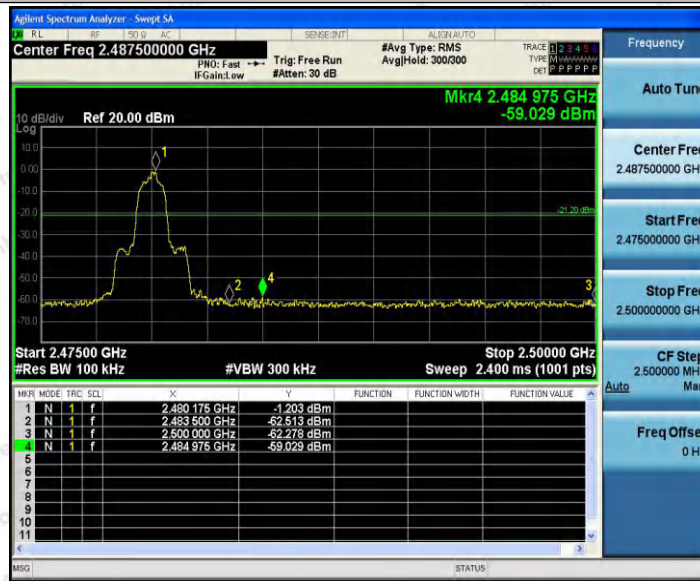


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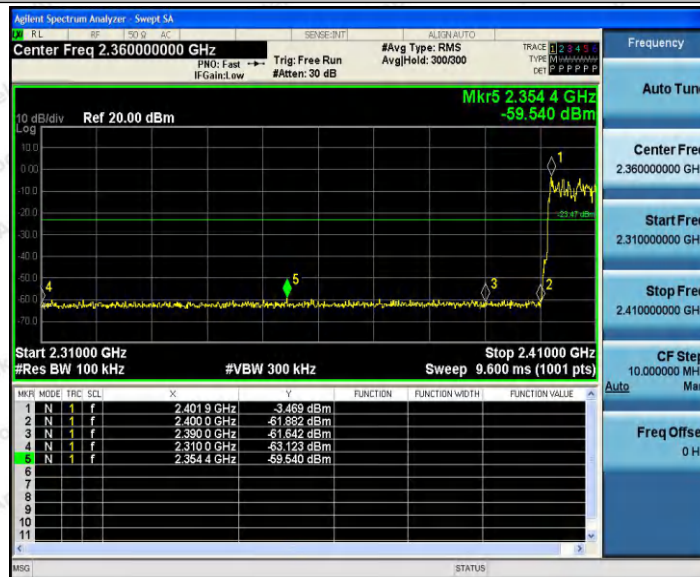
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop

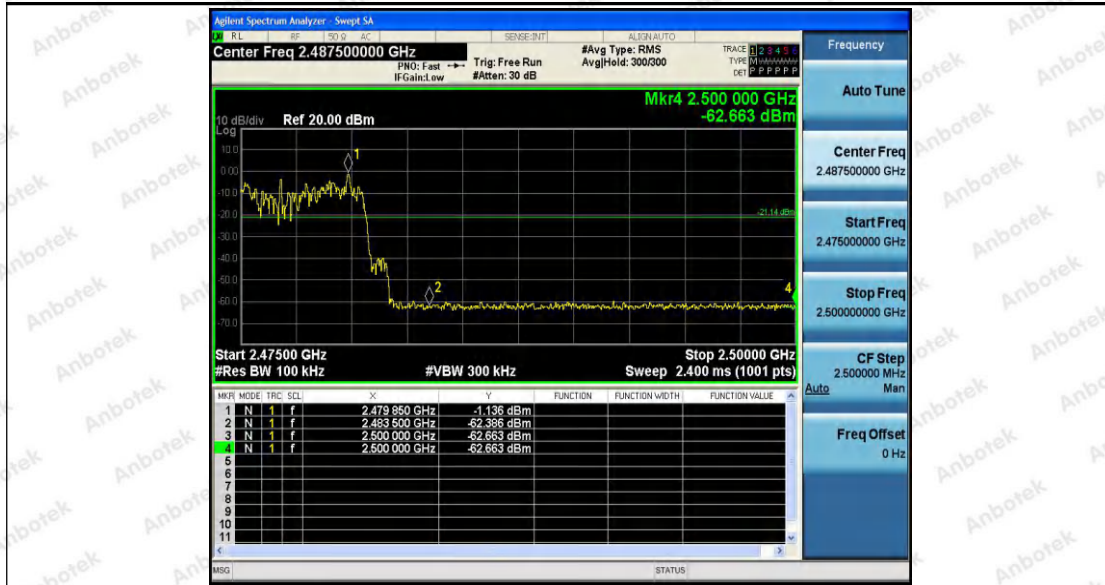


2DH5_Ant1_High_Hop

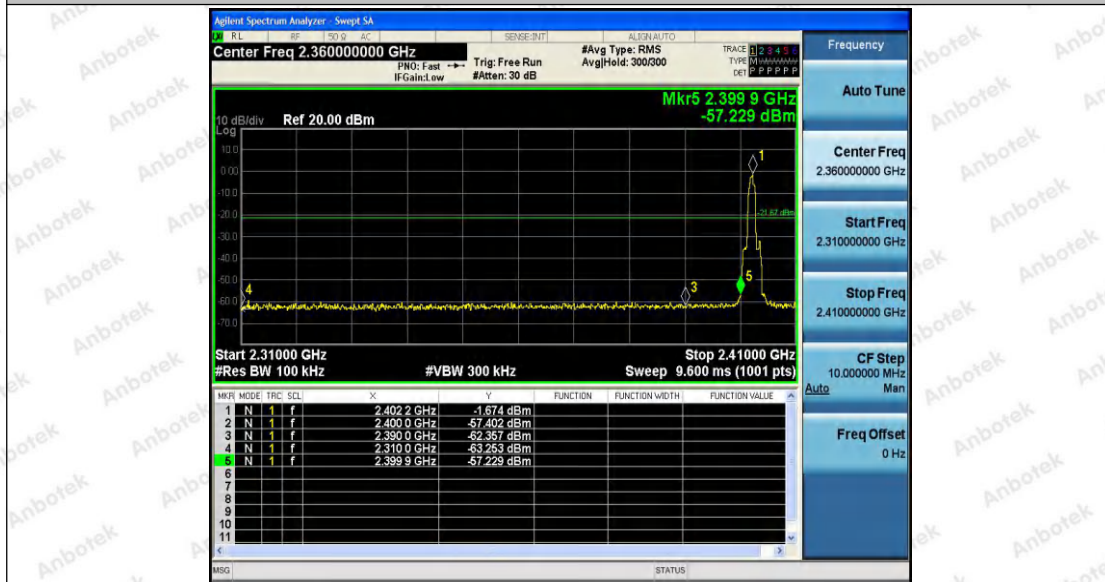
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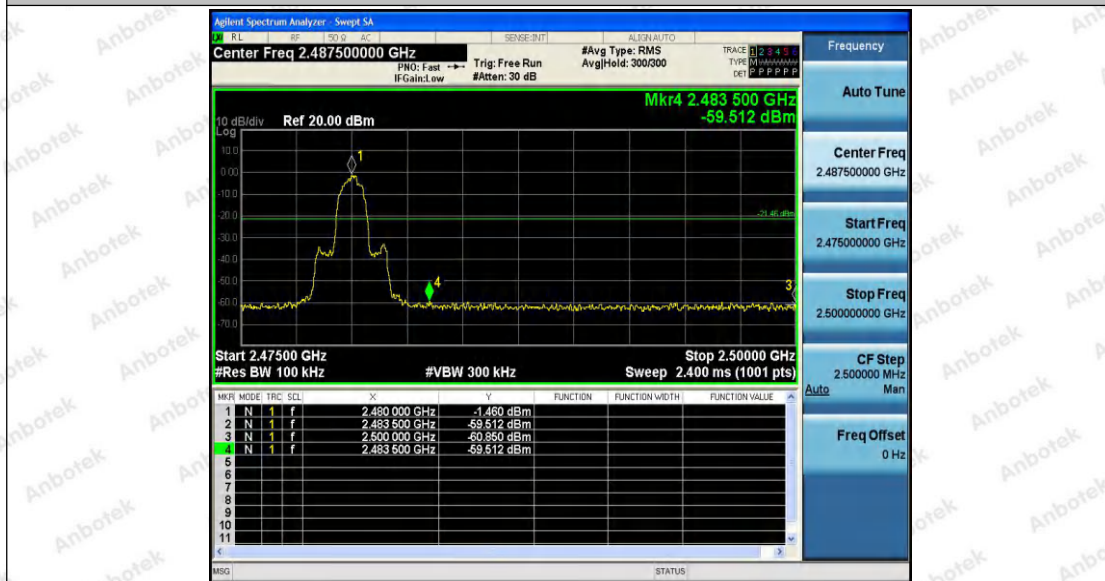
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480

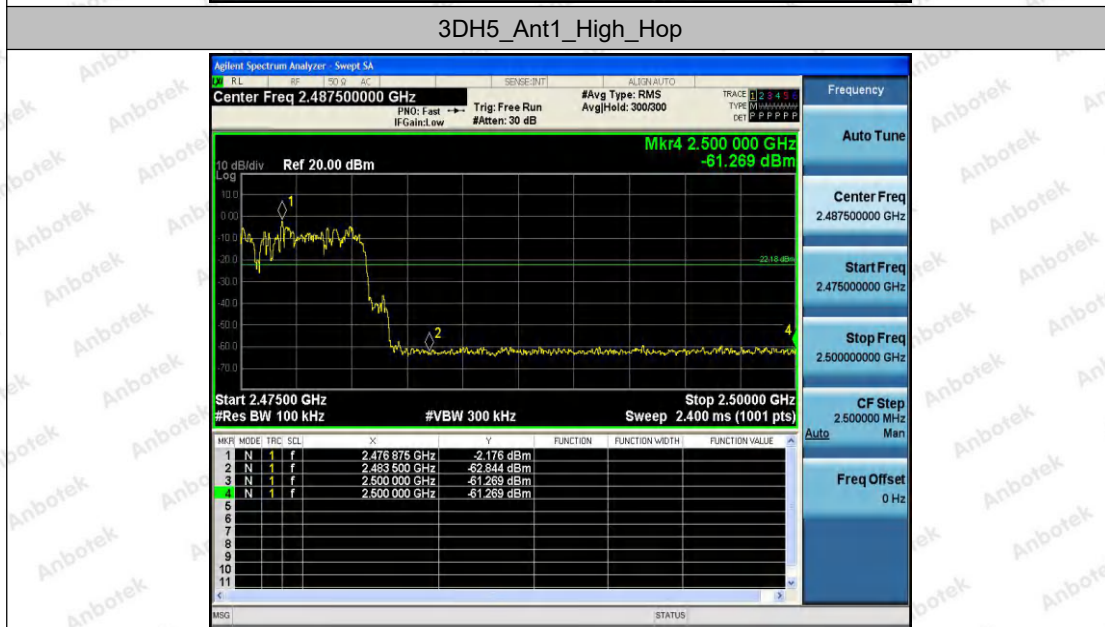
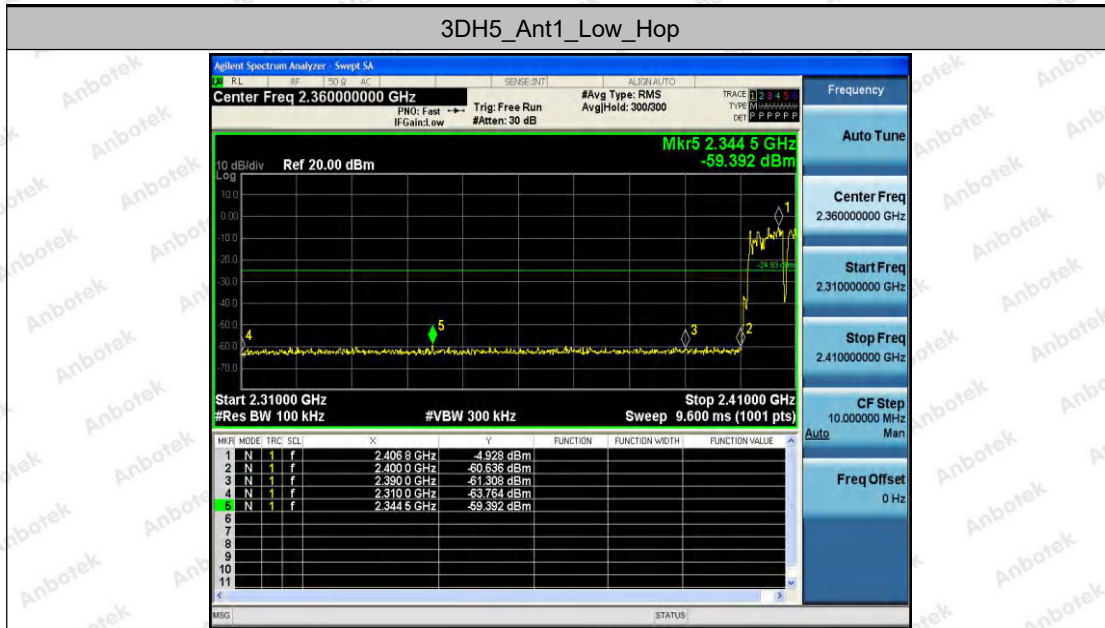


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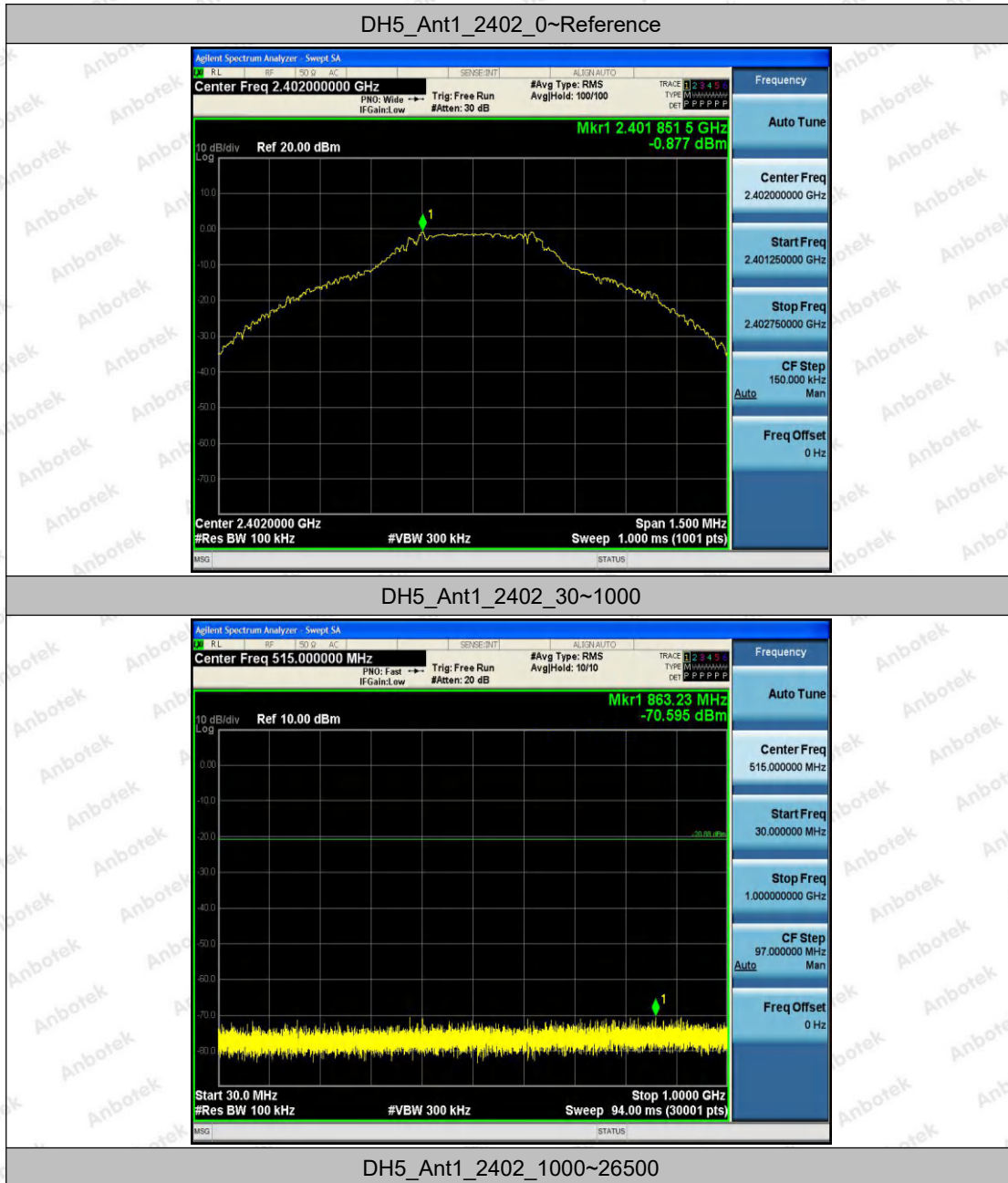
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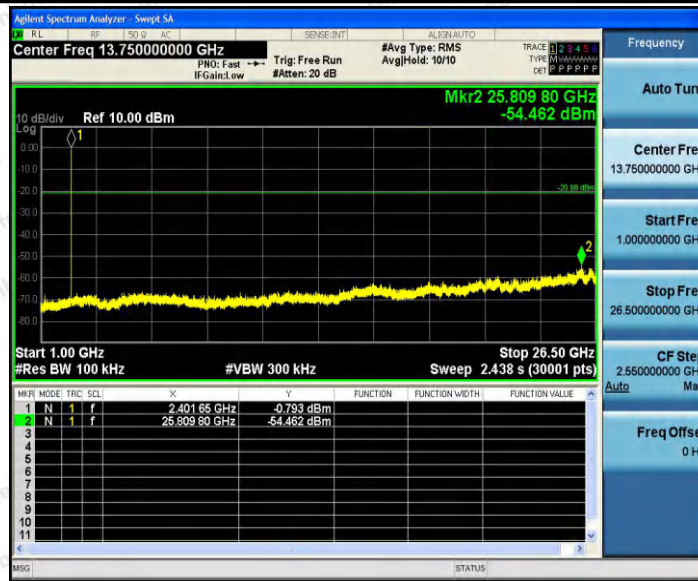
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.88	-0.88	---	PASS
			30~1000	-0.88	-70.6	≤-20.88	PASS
			1000~26500	-0.88	-54.46	≤-20.88	PASS
		2441	Reference	-1.47	-1.47	---	PASS
			30~1000	-1.47	-70.81	≤-21.47	PASS
			1000~26500	-1.47	-55.06	≤-21.47	PASS
		2480	Reference	-0.27	-0.27	---	PASS
			30~1000	-0.27	-70.66	≤-20.27	PASS
			1000~26500	-0.27	-55.42	≤-20.27	PASS
2DH5	Ant1	2402	Reference	-2.14	-2.14	---	PASS
			30~1000	-2.14	-69.83	≤-22.14	PASS
			1000~26500	-2.14	-55.74	≤-22.14	PASS
		2441	Reference	-2.00	-2.00	---	PASS
			30~1000	-2.00	-69.99	≤-22	PASS
			1000~26500	-2.00	-55.99	≤-22	PASS
		2480	Reference	-1.61	-1.61	---	PASS
			30~1000	-1.61	-70.12	≤-21.61	PASS
			1000~26500	-1.61	-55.25	≤-21.61	PASS
3DH5	Ant1	2402	Reference	-1.86	-1.86	---	PASS
			30~1000	-1.86	-70.12	≤-21.86	PASS
			1000~26500	-1.86	-54.99	≤-21.86	PASS
		2441	Reference	-1.89	-1.89	---	PASS
			30~1000	-1.89	-70.09	≤-21.89	PASS
			1000~26500	-1.89	-54.73	≤-21.89	PASS
		2480	Reference	-1.71	-1.71	---	PASS
			30~1000	-1.71	-70.59	≤-21.71	PASS
			1000~26500	-1.71	-55.76	≤-21.71	PASS

Test Graphs

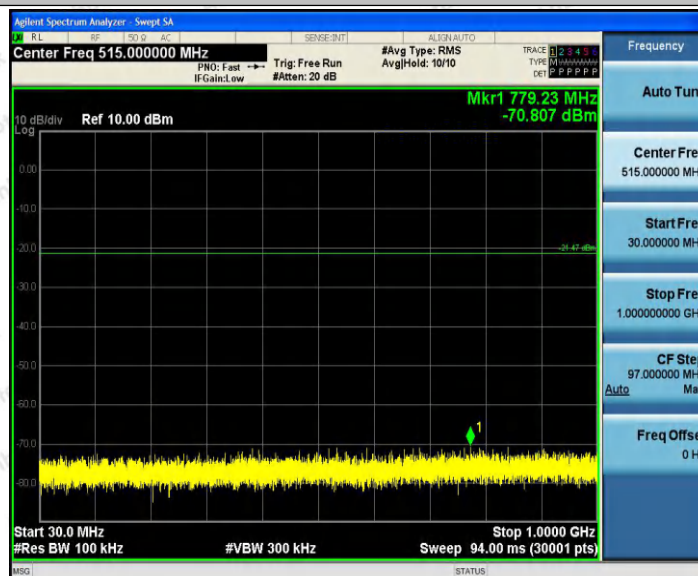




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

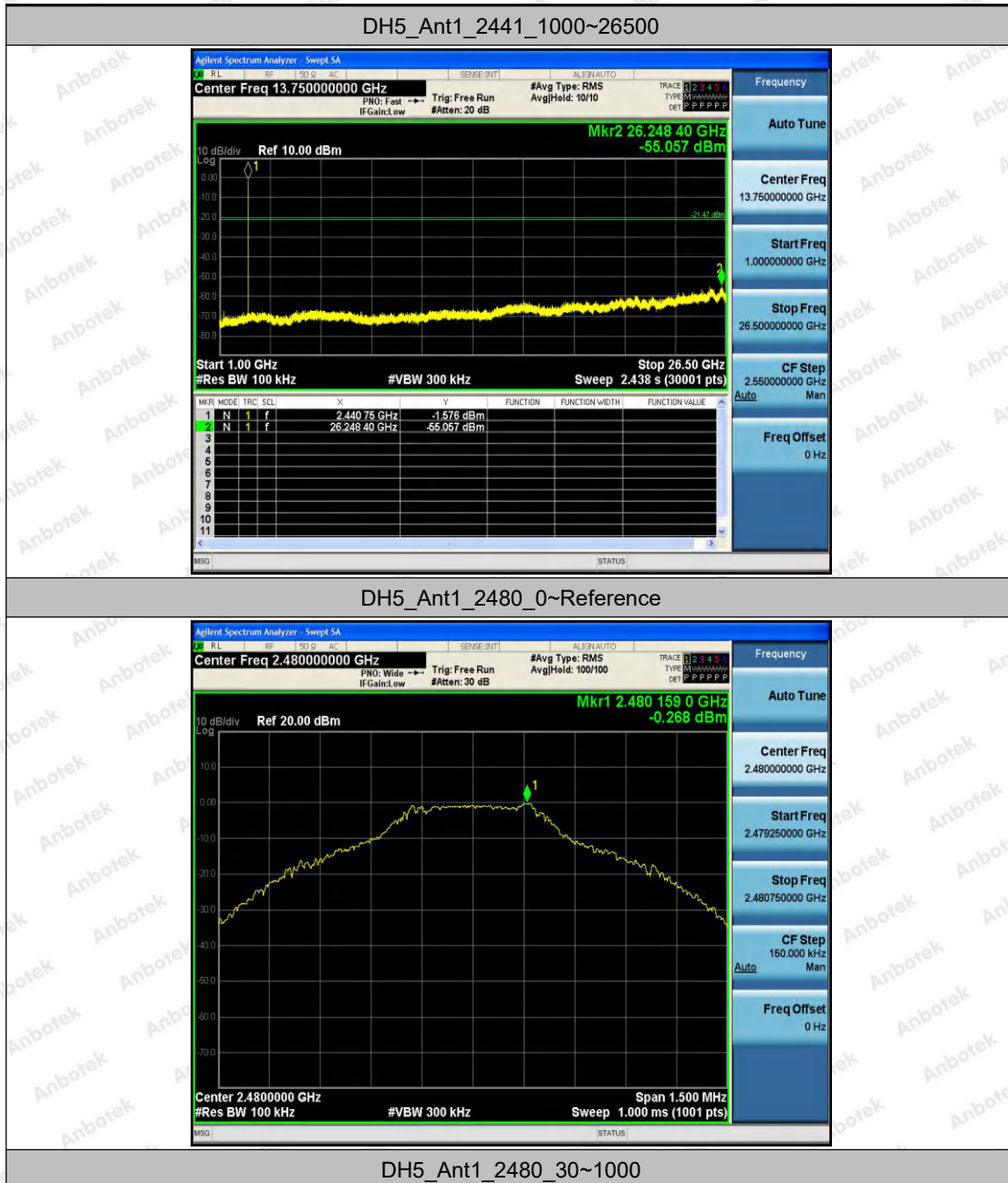


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Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

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

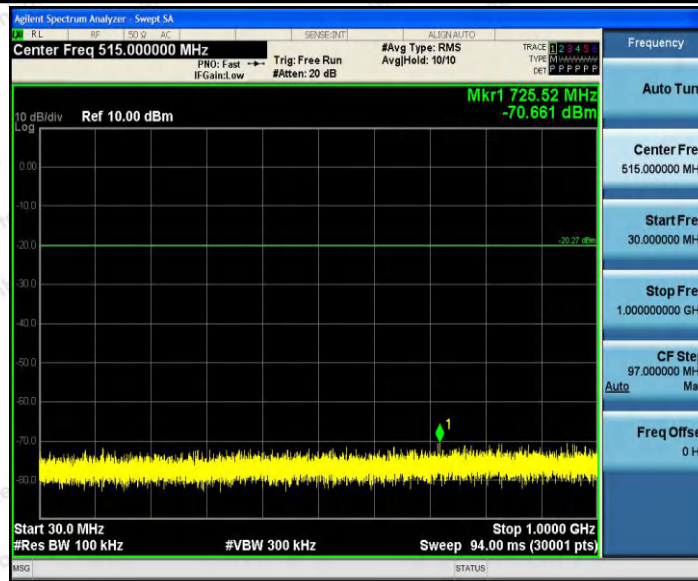
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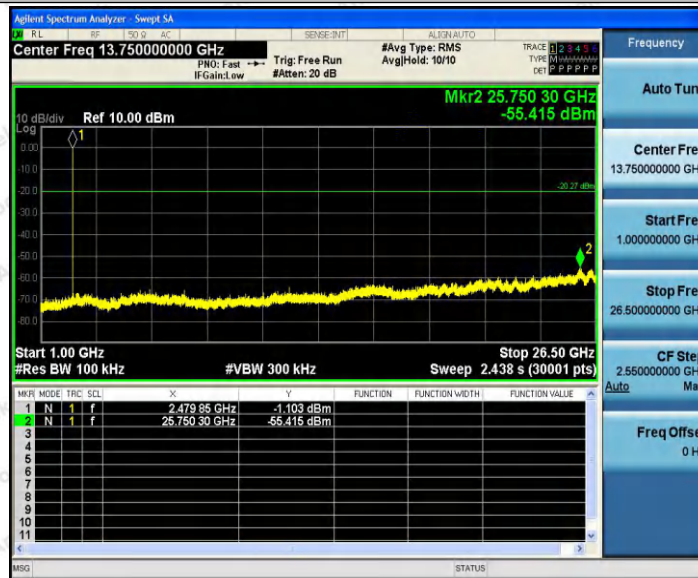
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

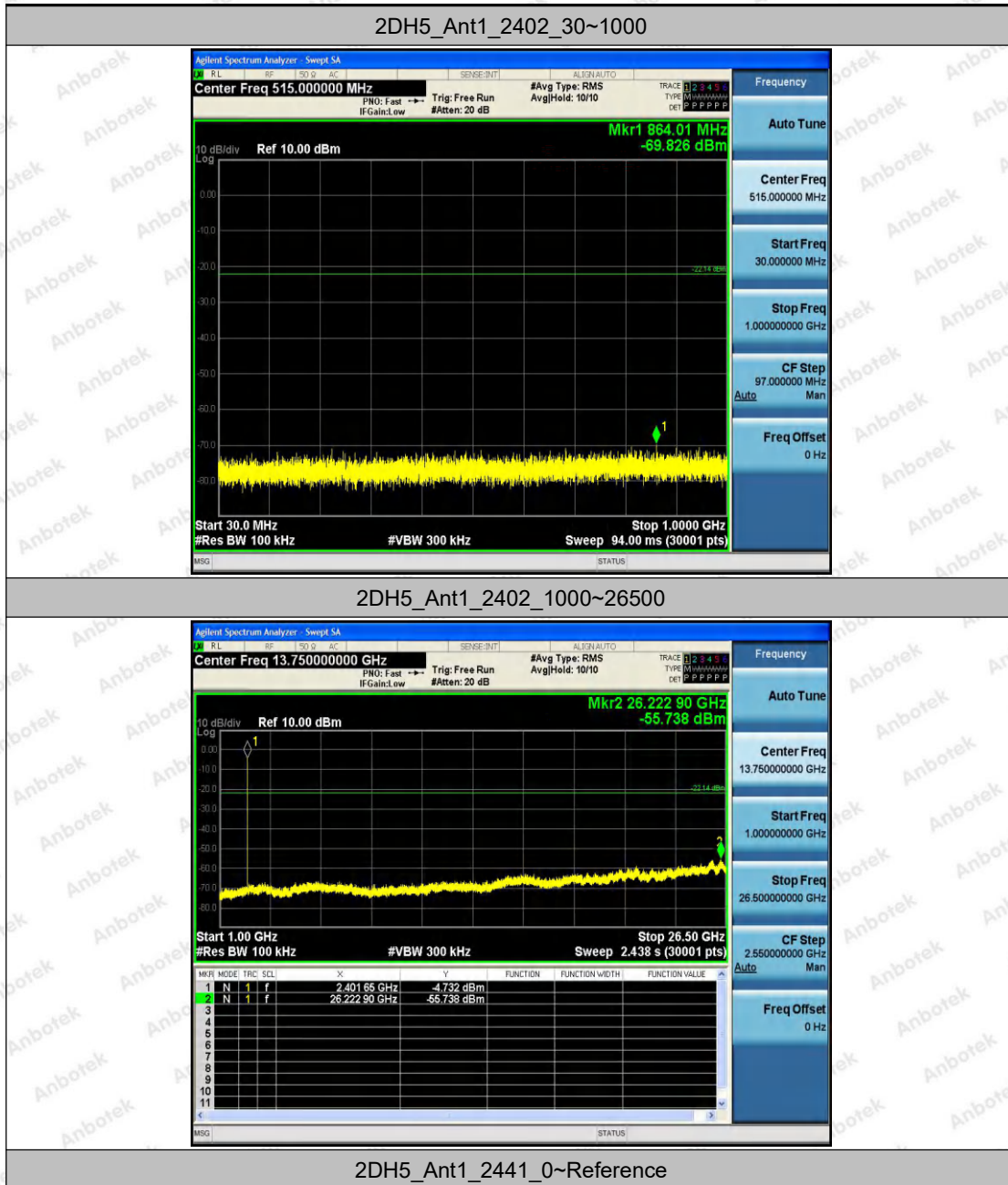


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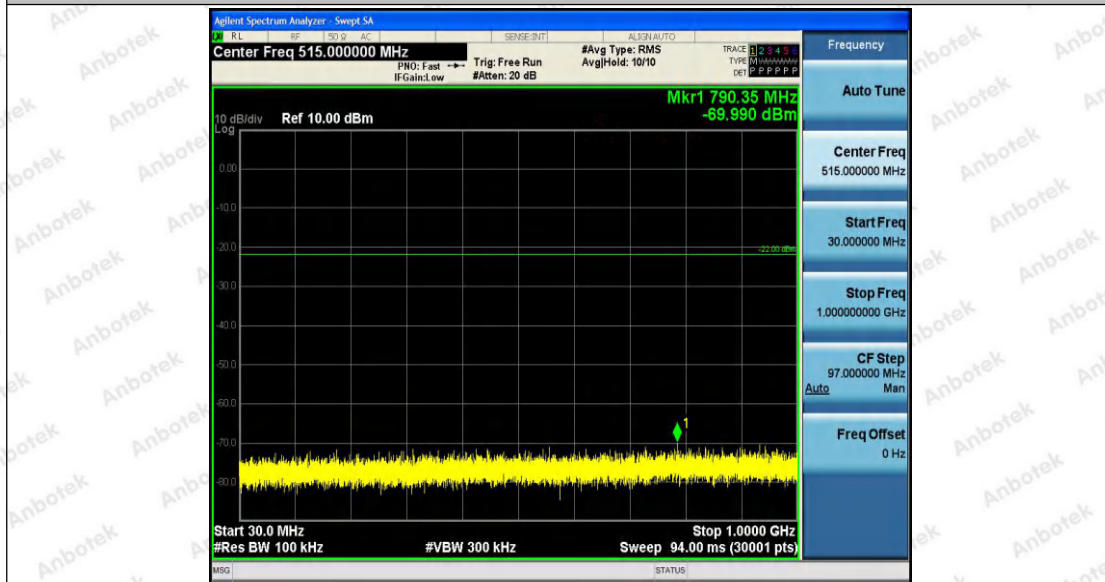
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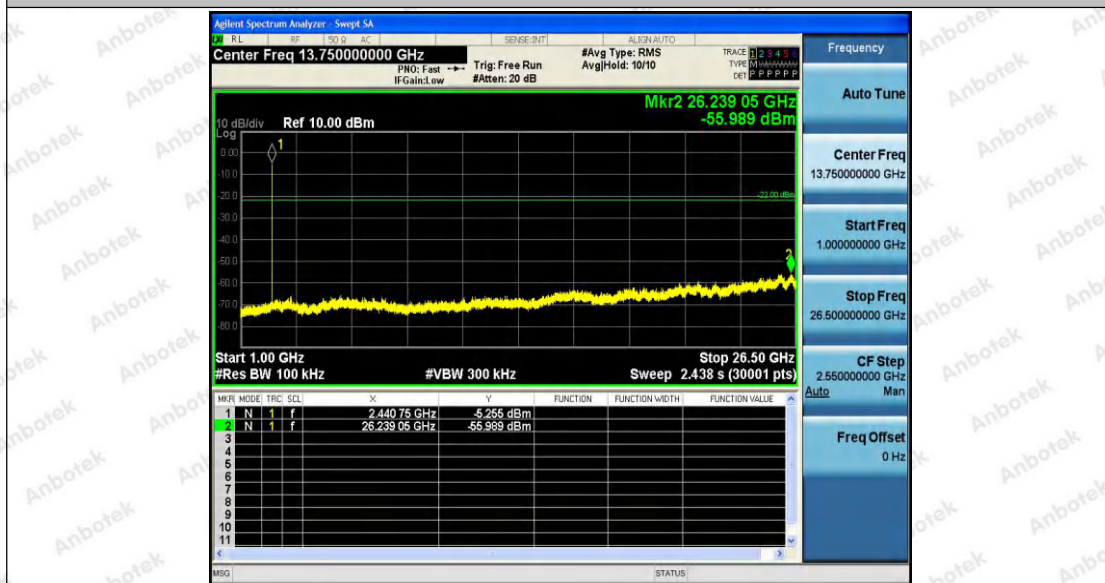
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

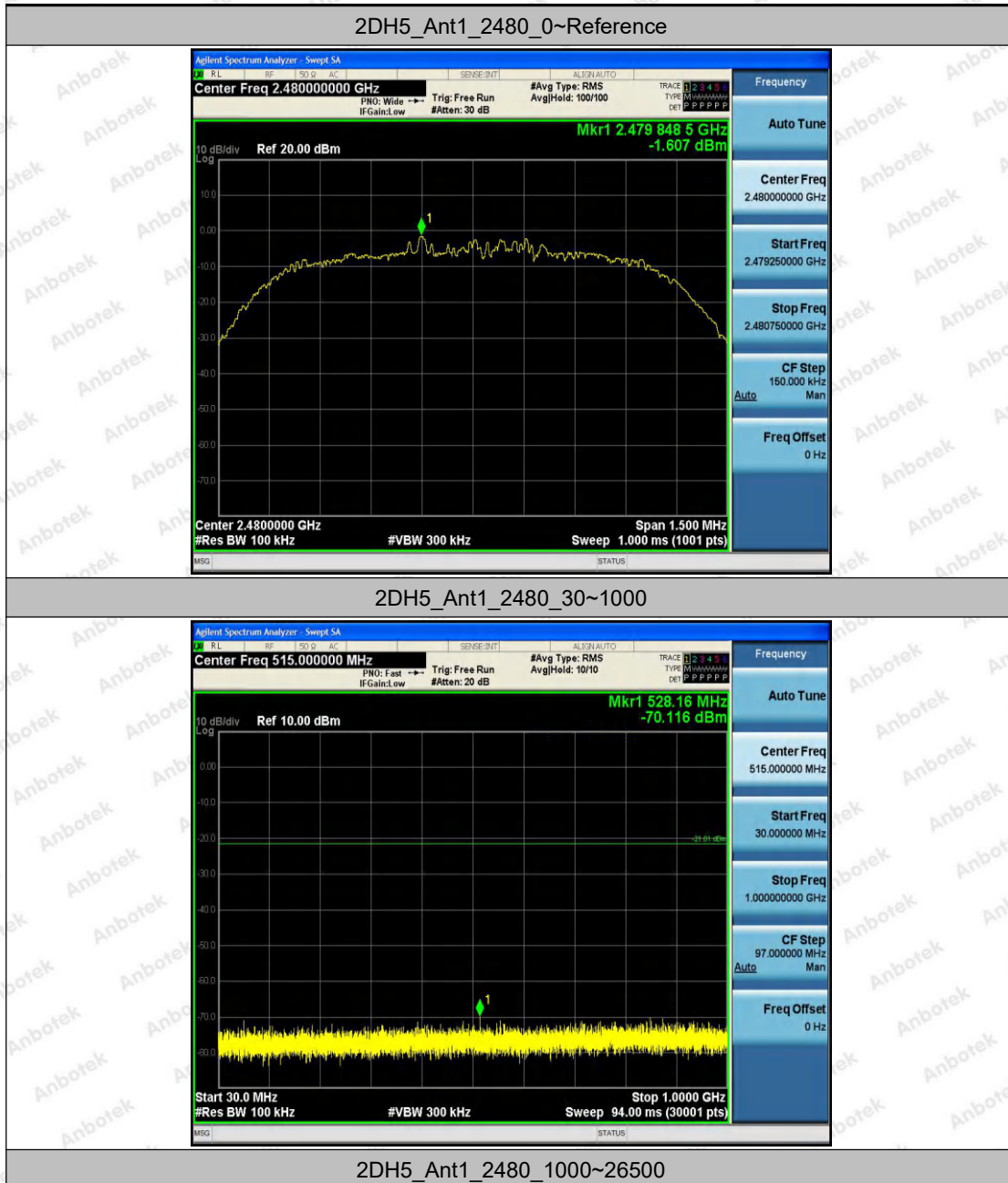


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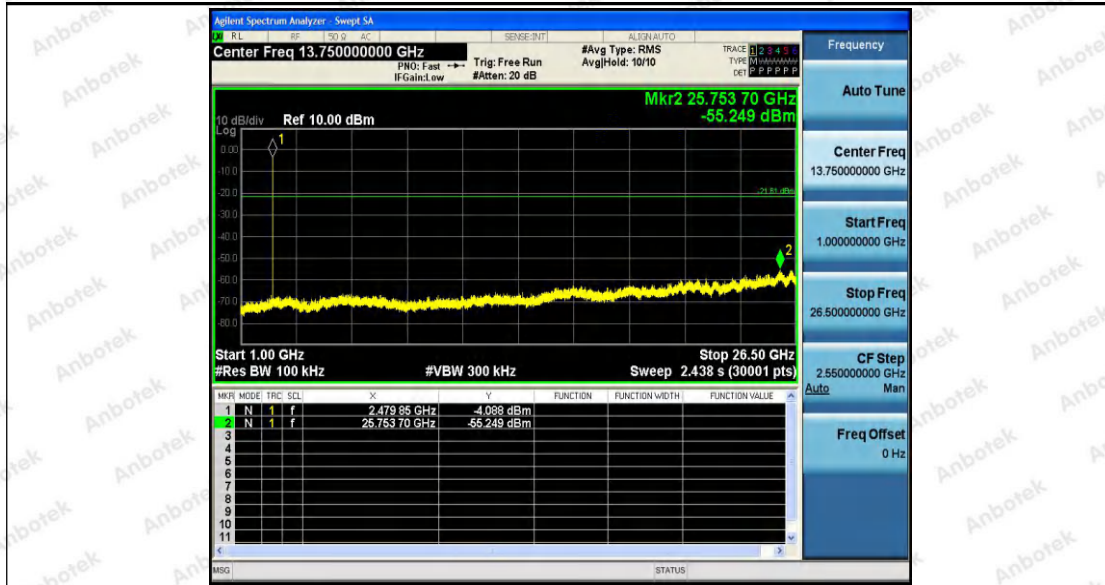
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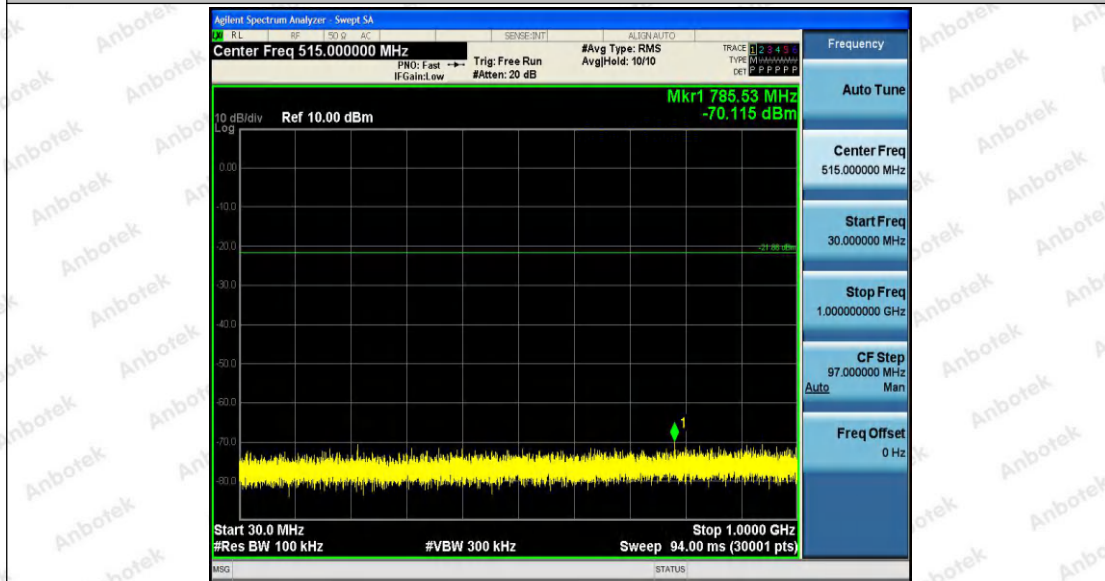
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000

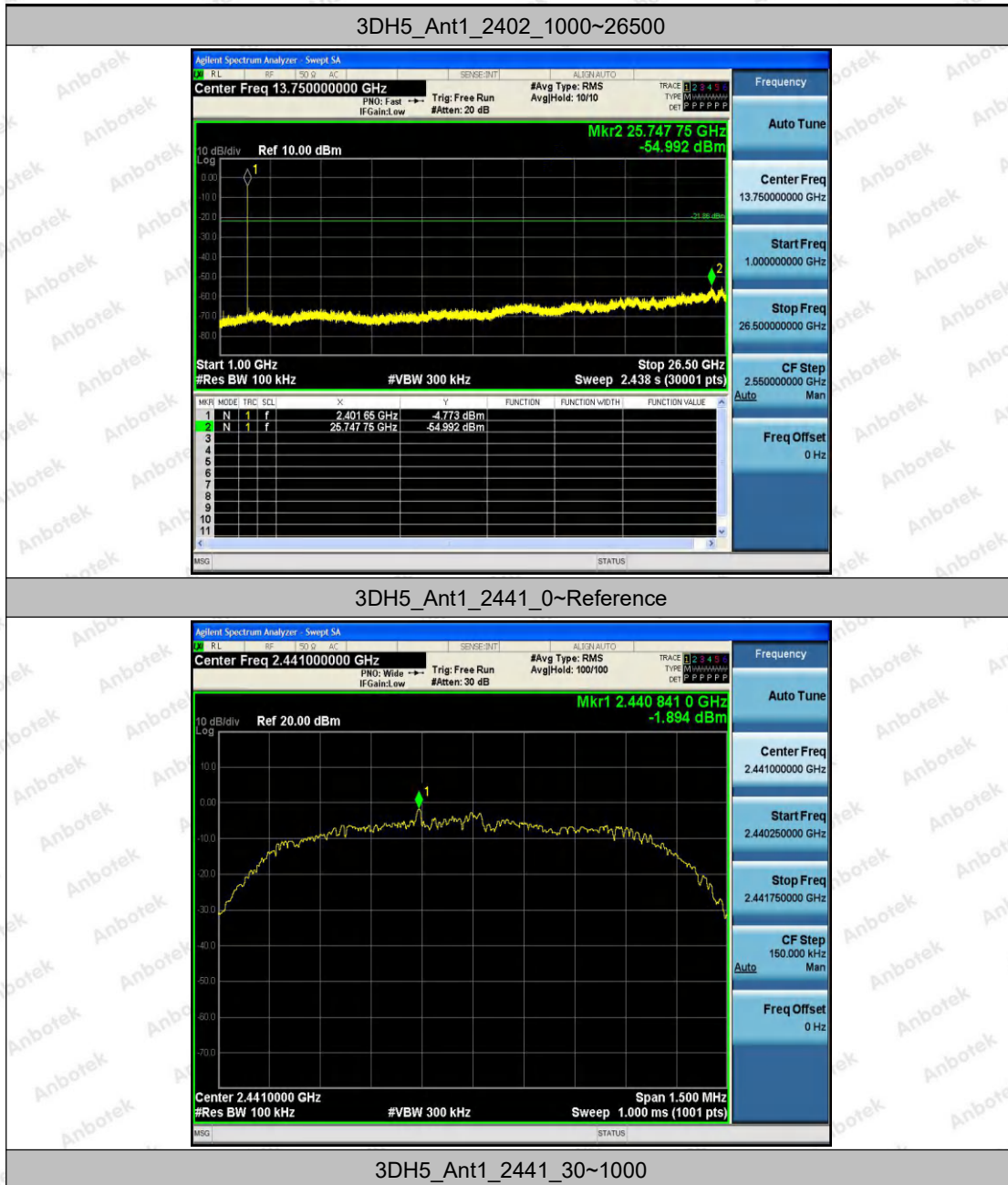


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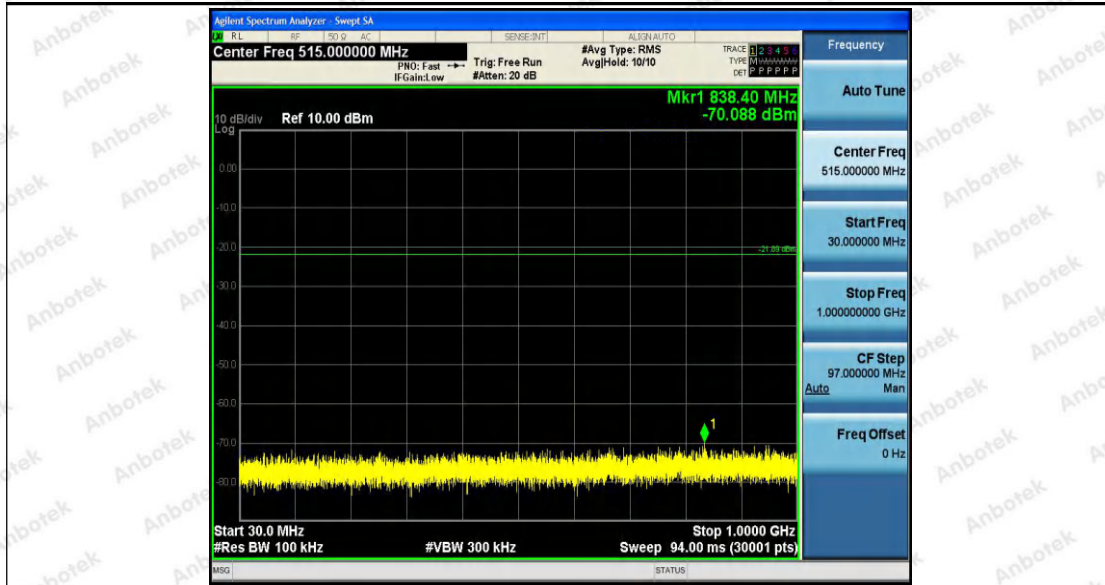
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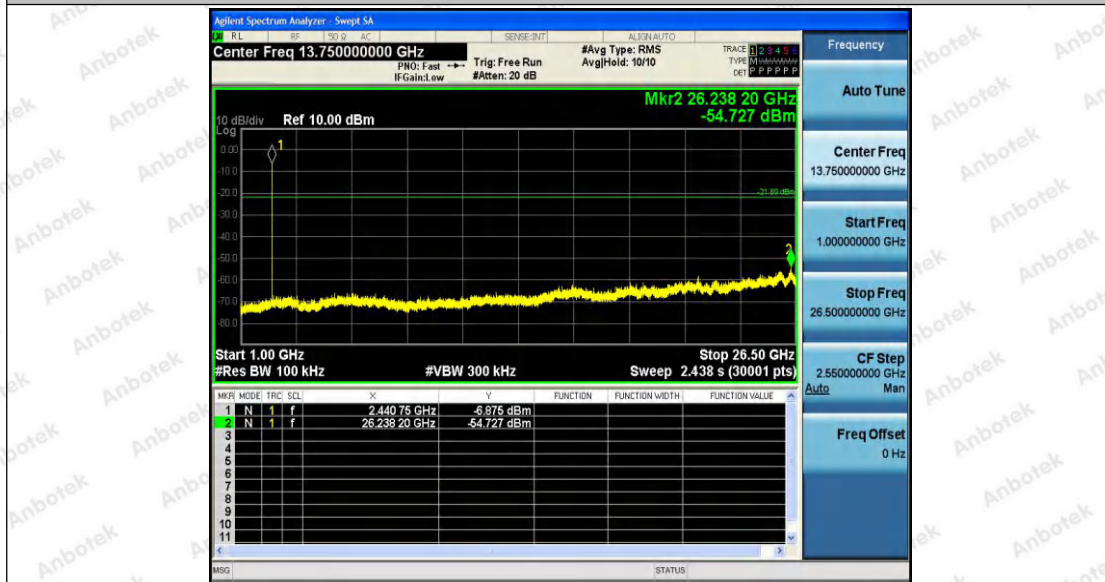
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3DH5_Ant1_2441_1000~26500



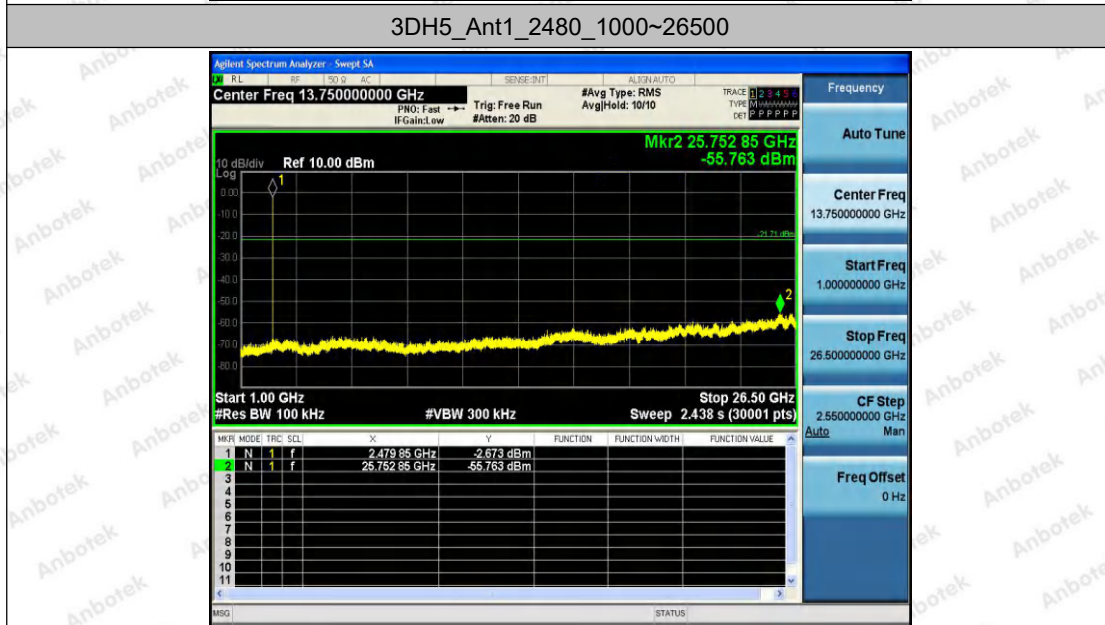
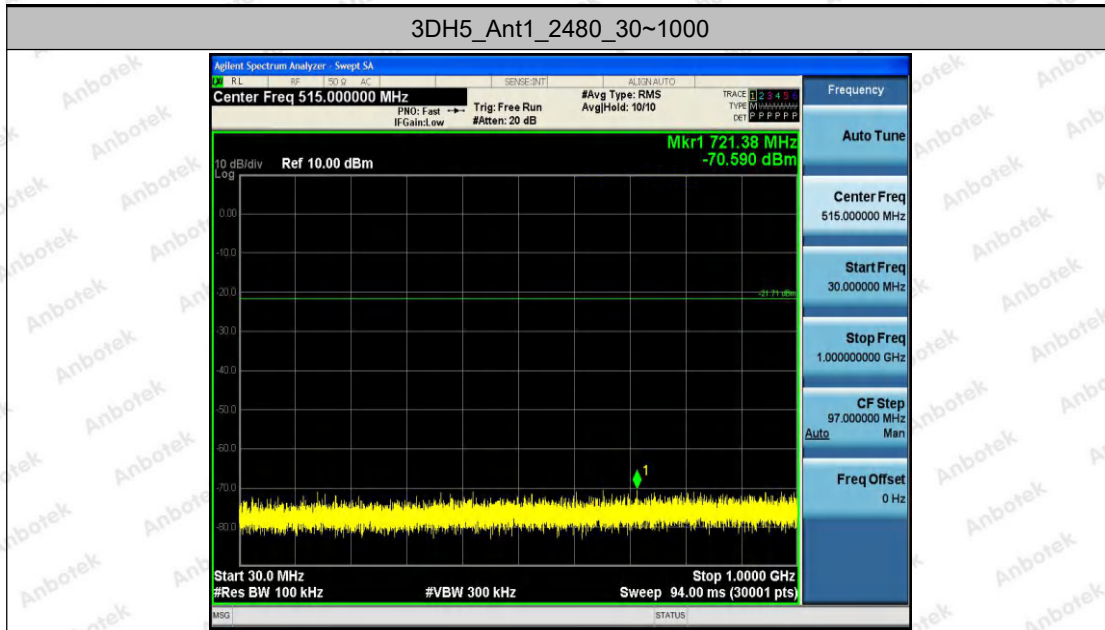
3DH5_Ant1_2480_0~Reference



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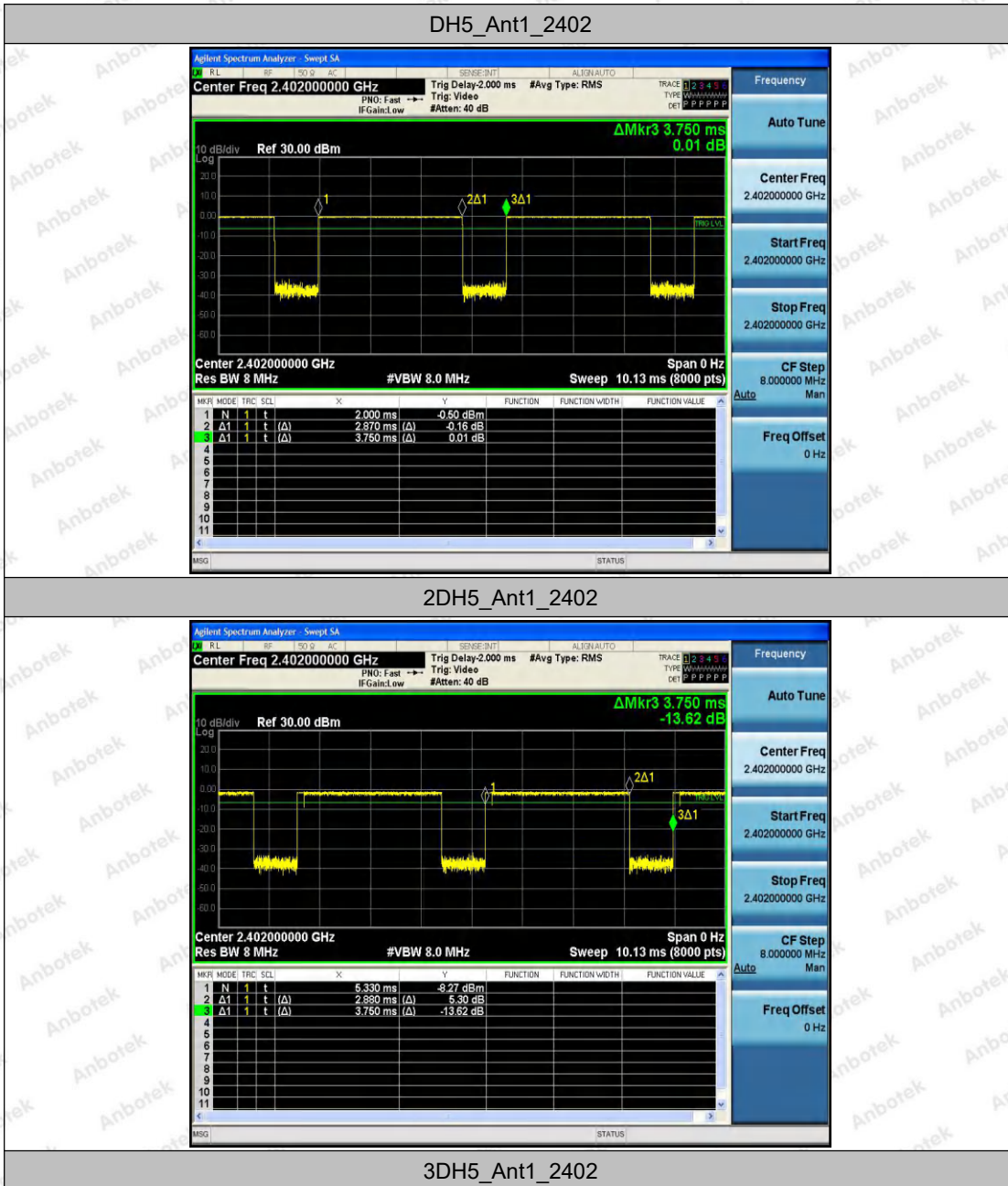
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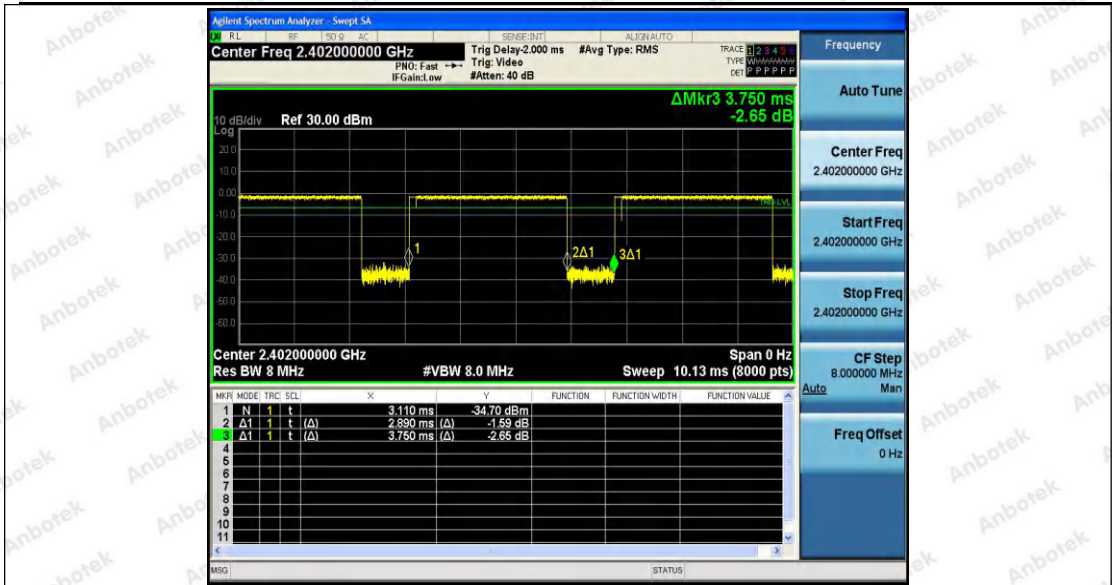
Appendix I: Duty Cycle

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	2.89	3.75	0.770 7	77.07	1.13	---	PASS

Test Graphs





---End---