

Appendix Test Data

Report No.:	18220WC20054101	Test Sample No.:	1-2-2
Start Test Date:	2022.3.23	Finish Test Date:	2022.3.26
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	56.5 %
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	0.948	2401.538	2402.486	---	PASS
		2441	0.927	2440.547	2441.474	---	PASS
		2480	0.954	2479.535	2480.489	---	PASS
2DH5	Ant1	2402	1.266	2401.364	2402.630	---	PASS
		2441	1.329	2440.334	2441.663	---	PASS
		2480	1.323	2479.337	2480.660	---	PASS
3DH5	Ant1	2402	1.290	2401.349	2402.639	---	PASS
		2441	1.311	2440.346	2441.657	---	PASS
		2480	1.344	2479.325	2480.669	---	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

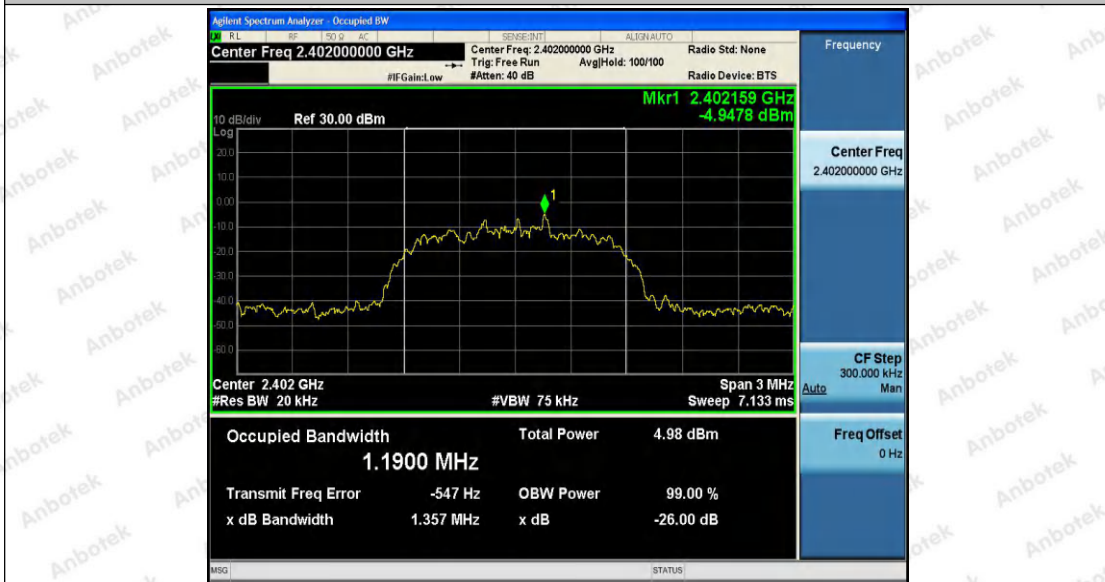
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88646	2401.55 5	2402.442	---	PASS
		2441	0.89030	2440.55 5	2441.446	---	PASS
		2480	0.88835	2479.55 4	2480.443	---	PASS
2DH5	Ant1	2402	1.1900	2401.40 4	2402.594	---	PASS
		2441	1.2054	2440.39 8	2441.603	---	PASS
		2480	1.1901	2479.40 5	2480.595	---	PASS
3DH5	Ant1	2402	1.2097	2401.38 7	2402.596	---	PASS
		2441	1.2141	2440.38 5	2441.599	---	PASS
		2480	1.2089	2479.38 8	2480.597	---	PASS

Test Graphs

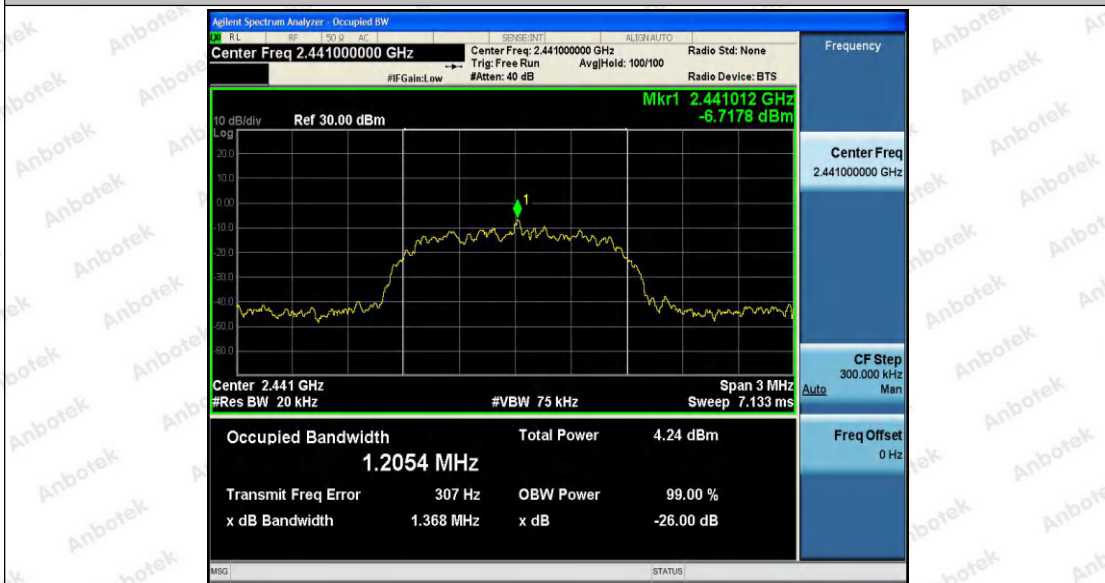




2DH5_Ant1_2402



2DH5_Ant1_2441

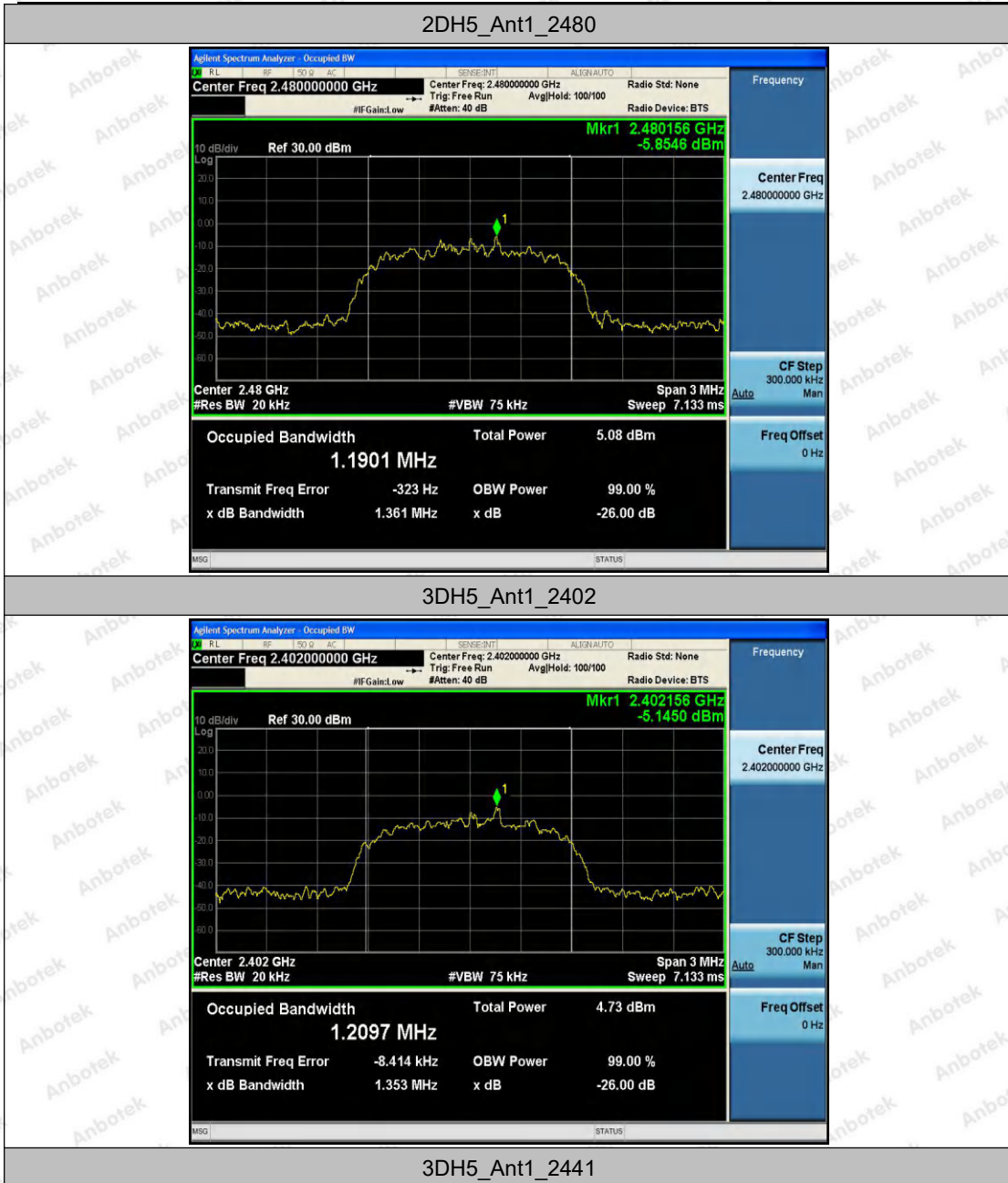


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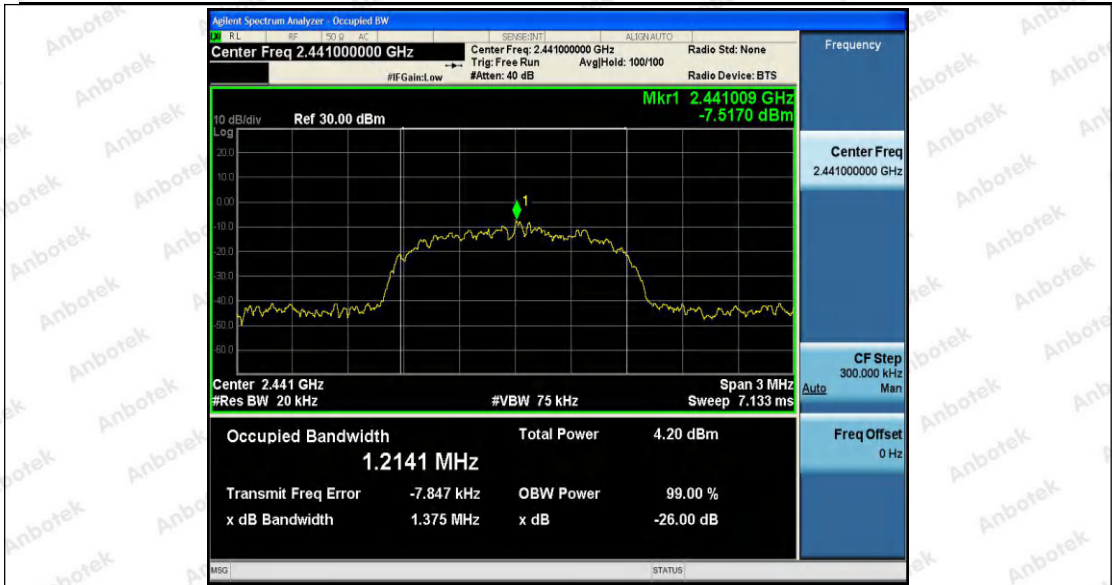


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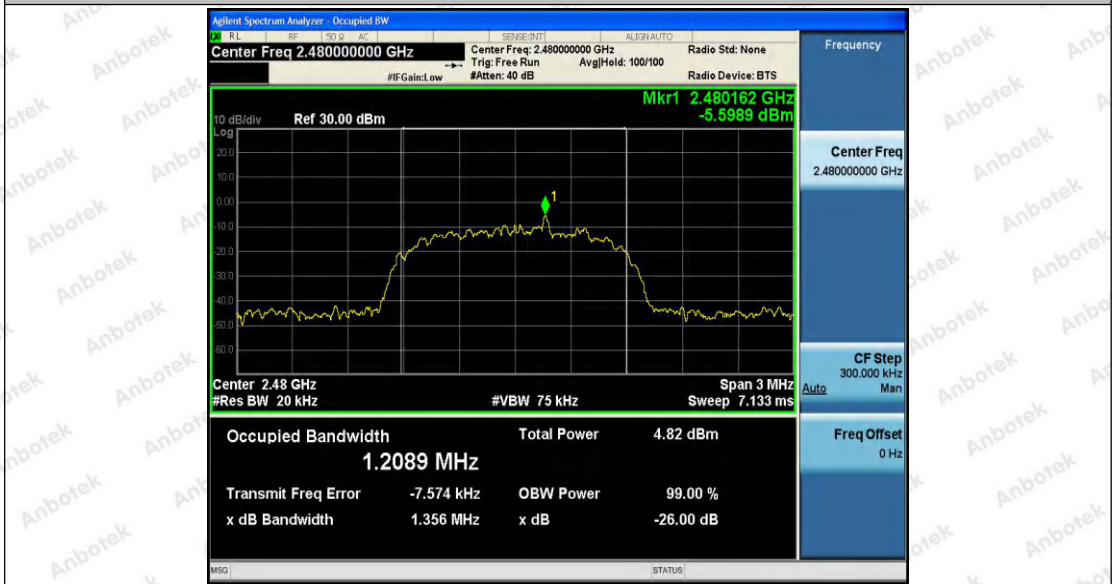
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3DH5_Ant1_2480



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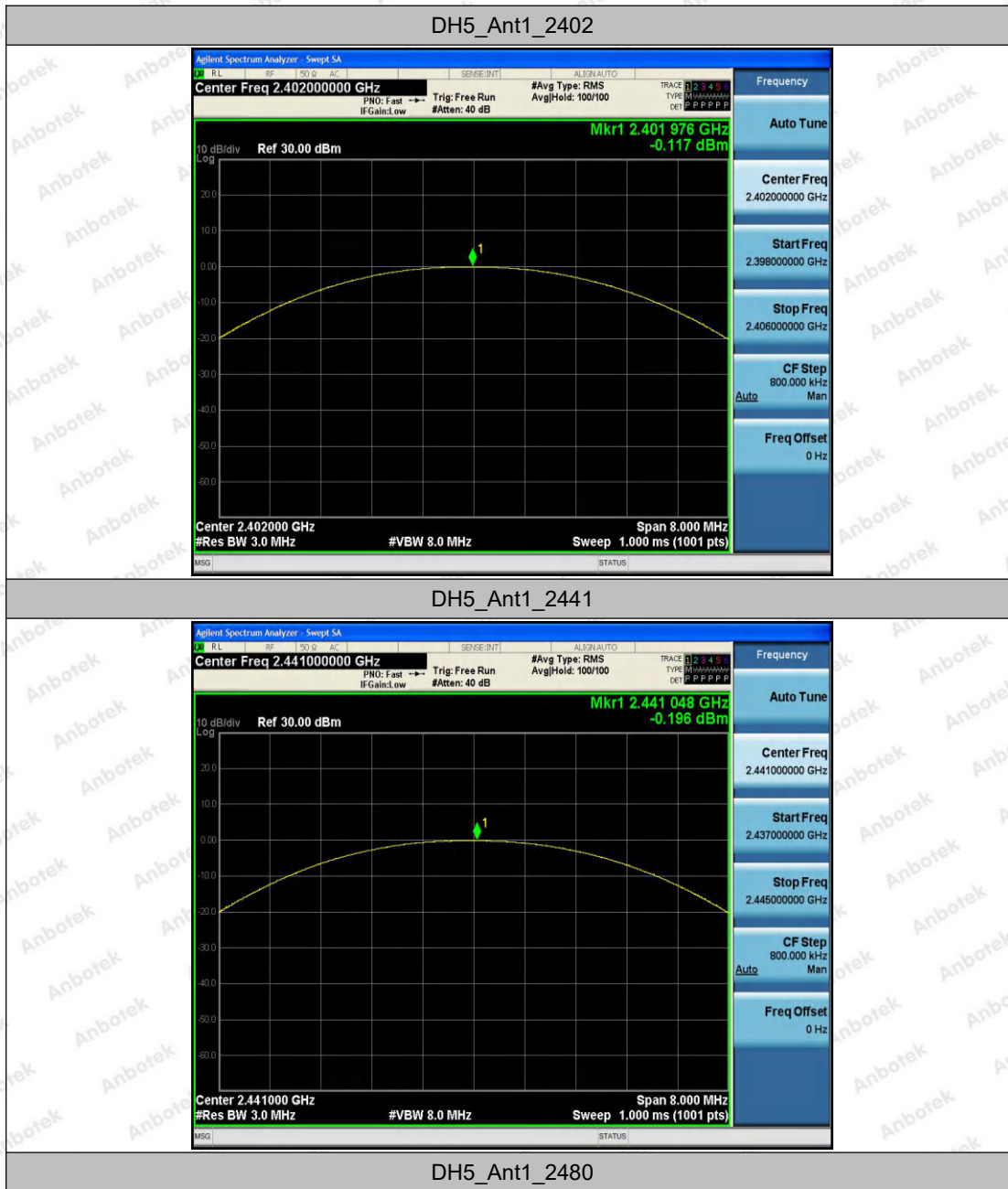
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.12	≤20.97	PASS
		2441	-0.2	≤20.97	PASS
		2480	0.51	≤20.97	PASS
2DH5	Ant1	2402	-0.78	≤20.97	PASS
		2441	-0.74	≤20.97	PASS
		2480	-0.05	≤20.97	PASS
3DH5	Ant1	2402	-0.44	≤20.97	PASS
		2441	-0.62	≤20.97	PASS
		2480	0.09	≤20.97	PASS

Test Graphs



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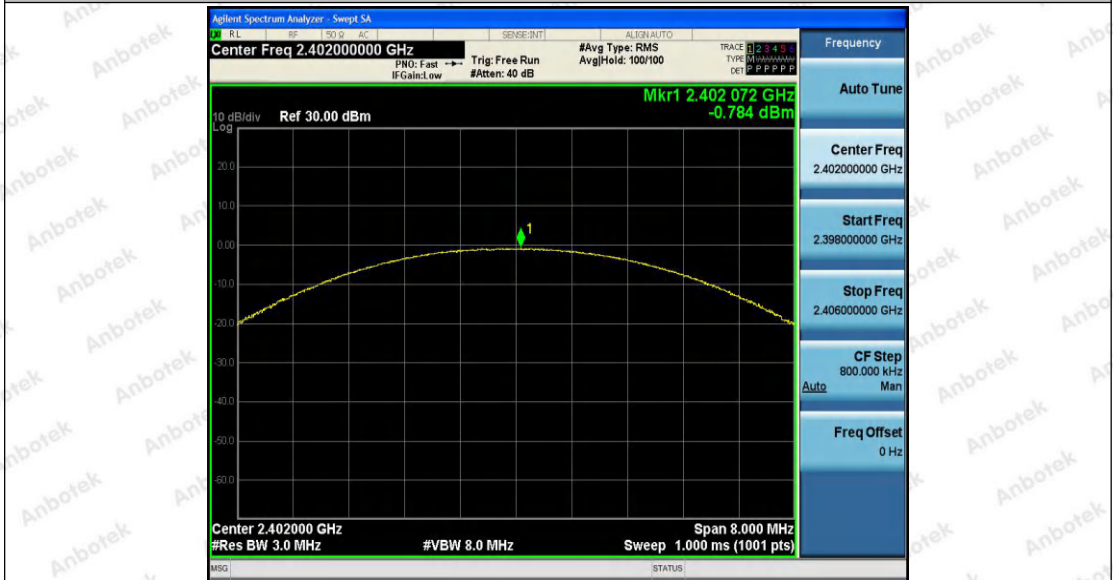
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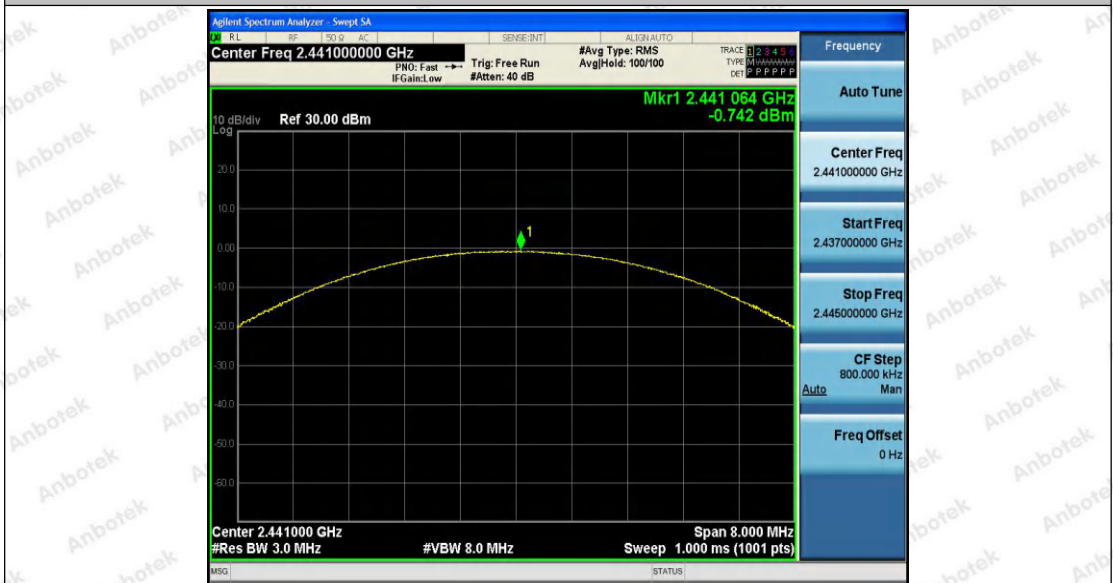
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2DH5_Ant1_2402



2DH5_Ant1_2441

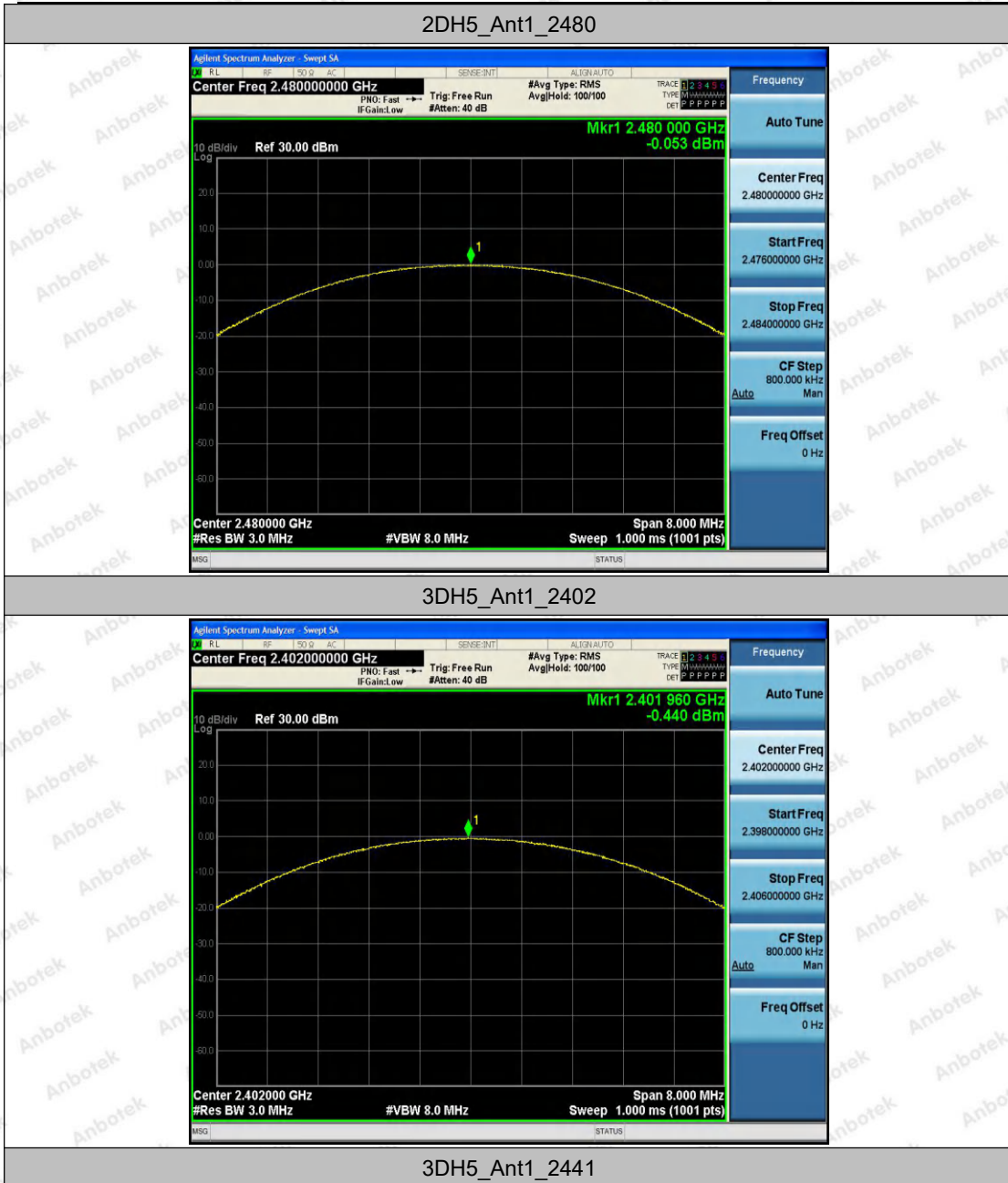


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3DH5_Ant1_2480



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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.78	≥ 0.636	PASS
2DH5	Ant1	Hop	1.008	≥ 0.886	PASS
3DH5	Ant1	Hop	1.354	≥ 0.896	PASS

Test Graphs

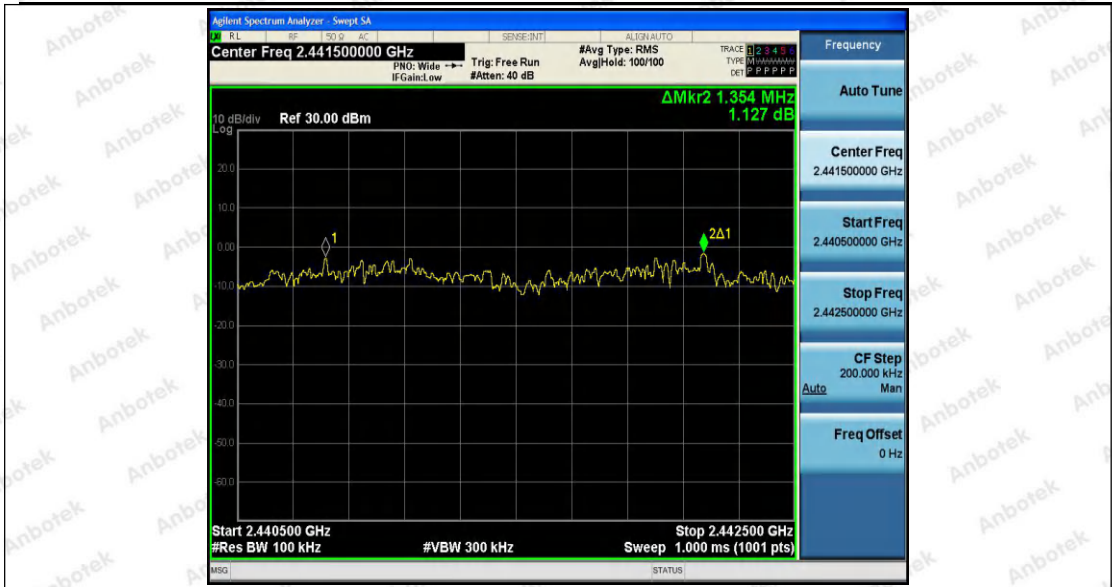


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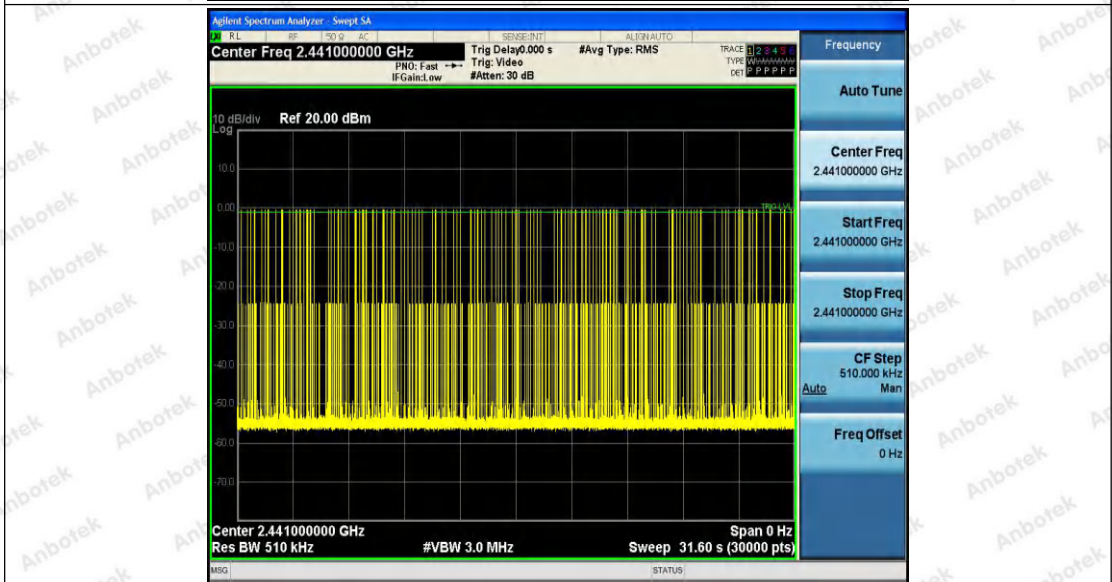
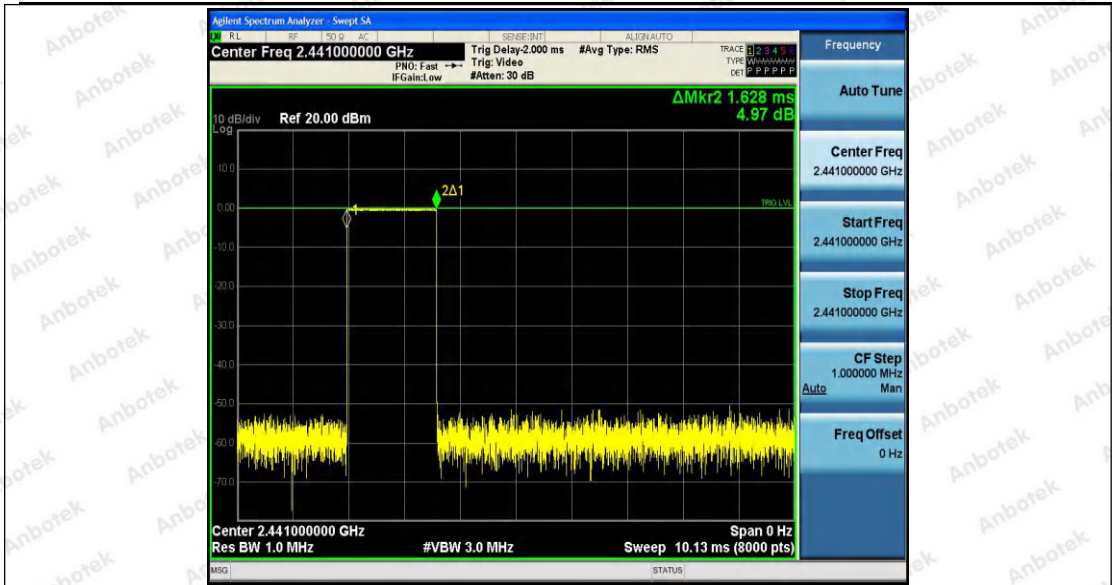
Appendix E: Time of occupancy

Test Result

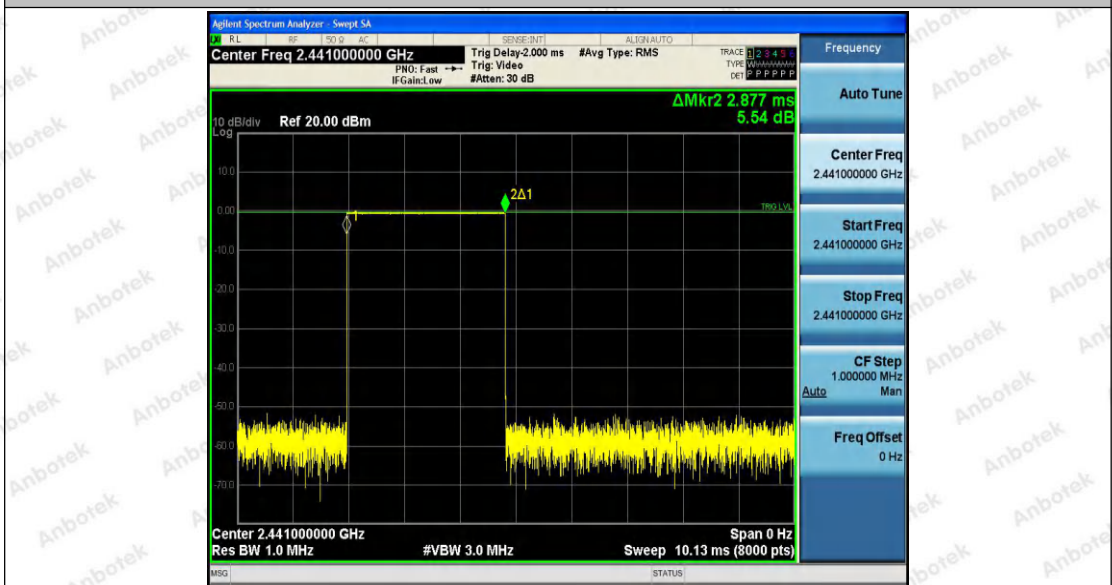
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	313	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.88	108	0.311	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
2DH5	Ant1	Hop	2.88	125	0.36	≤0.4	PASS
3DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	156	0.254	≤0.4	PASS
3DH5	Ant1	Hop	2.88	101	0.291	≤0.4	PASS

Test Graphs





DH5_Ant1_Hop

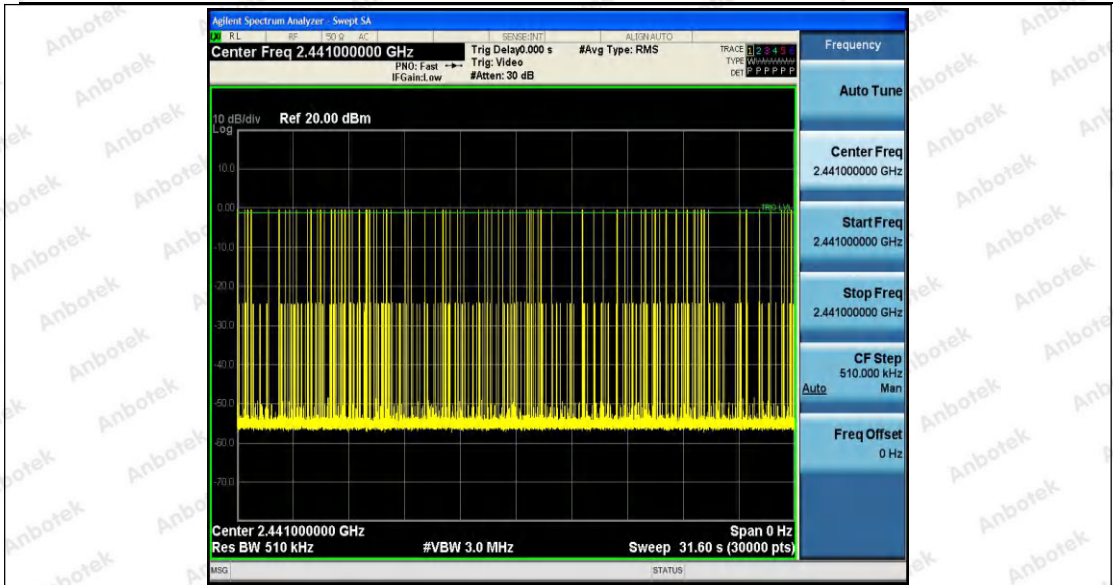


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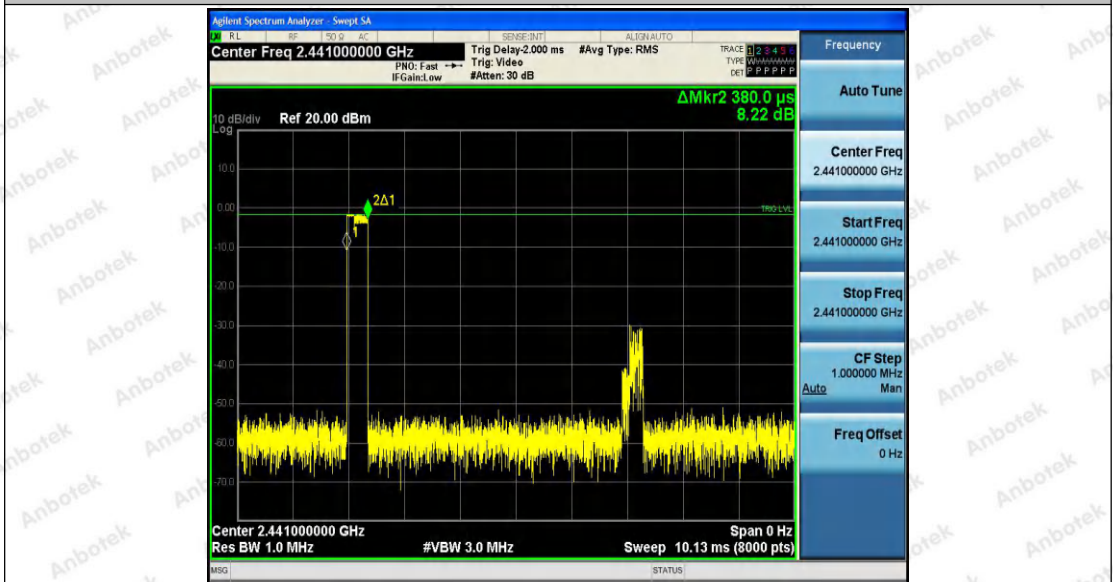
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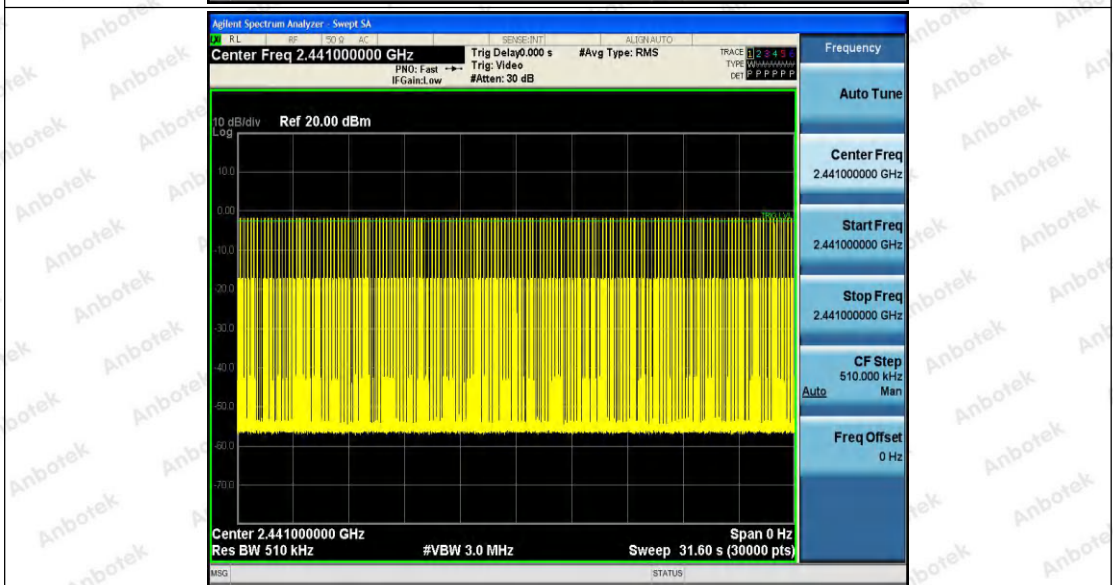
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2DH1_Ant1_Hop



2DH3_Ant1_Hop

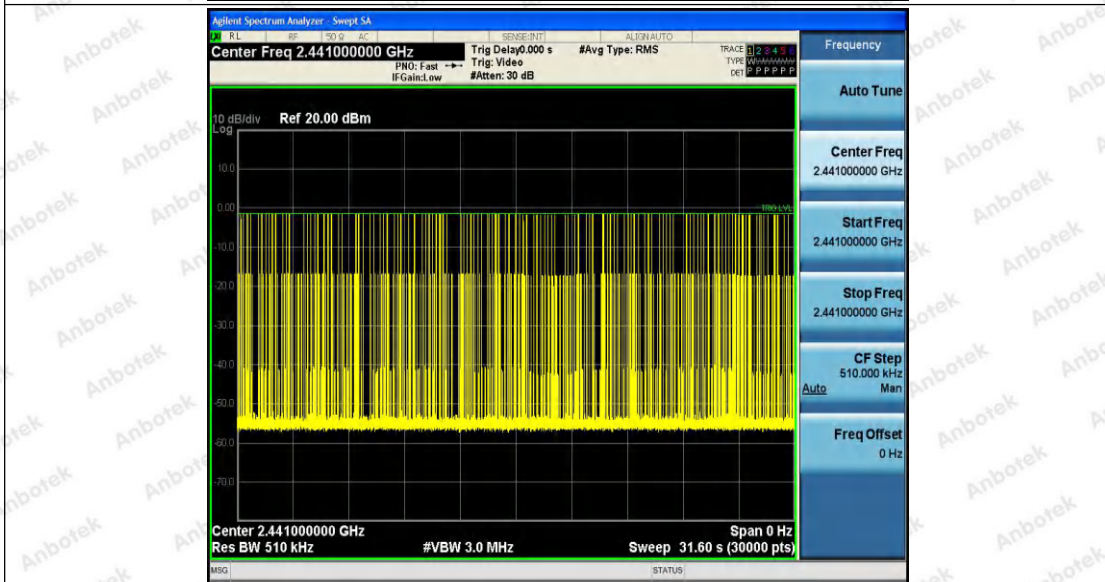
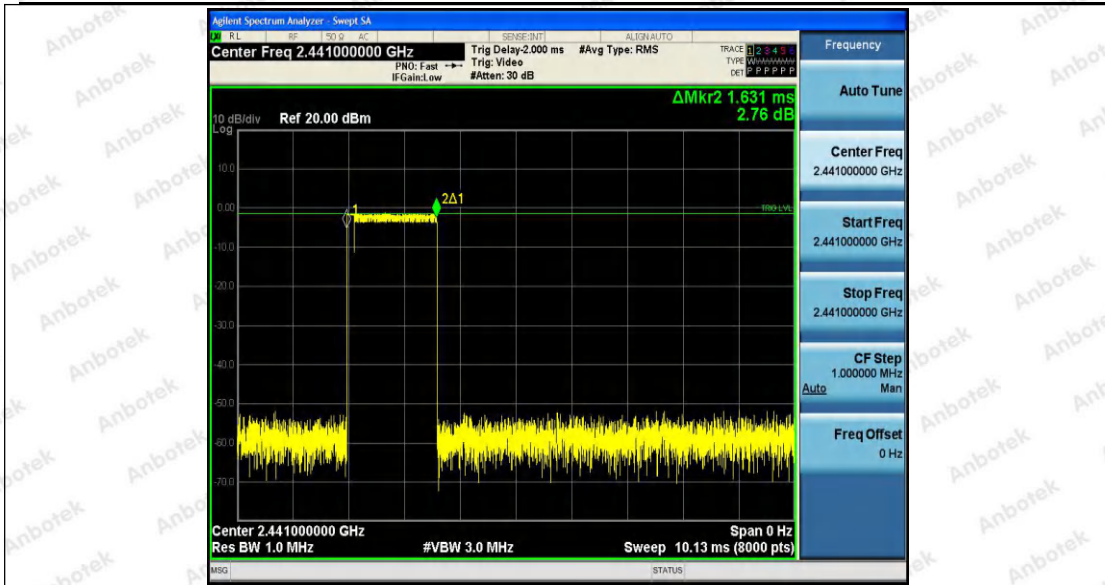


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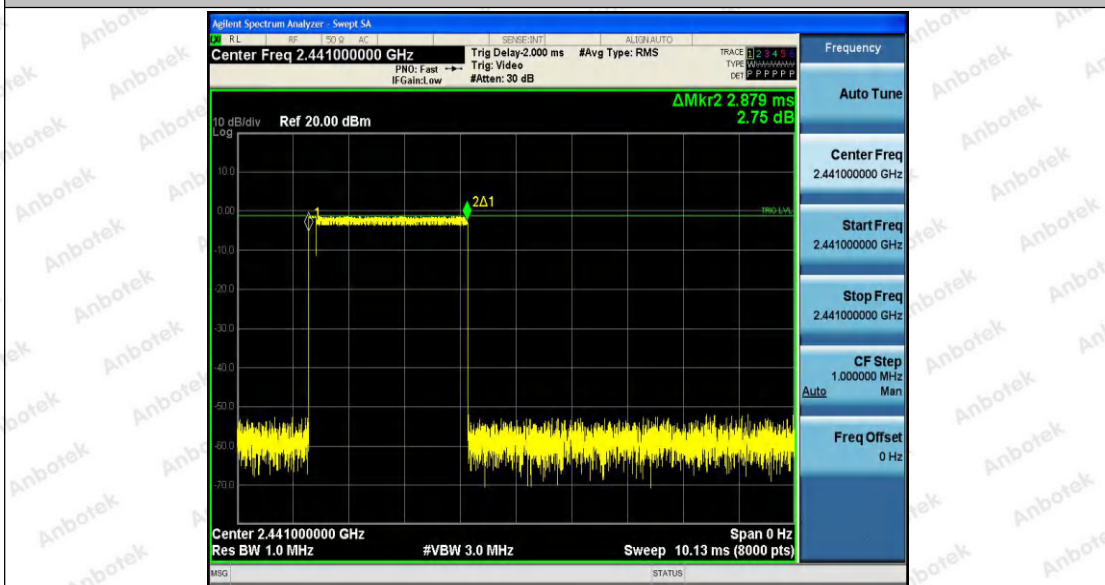
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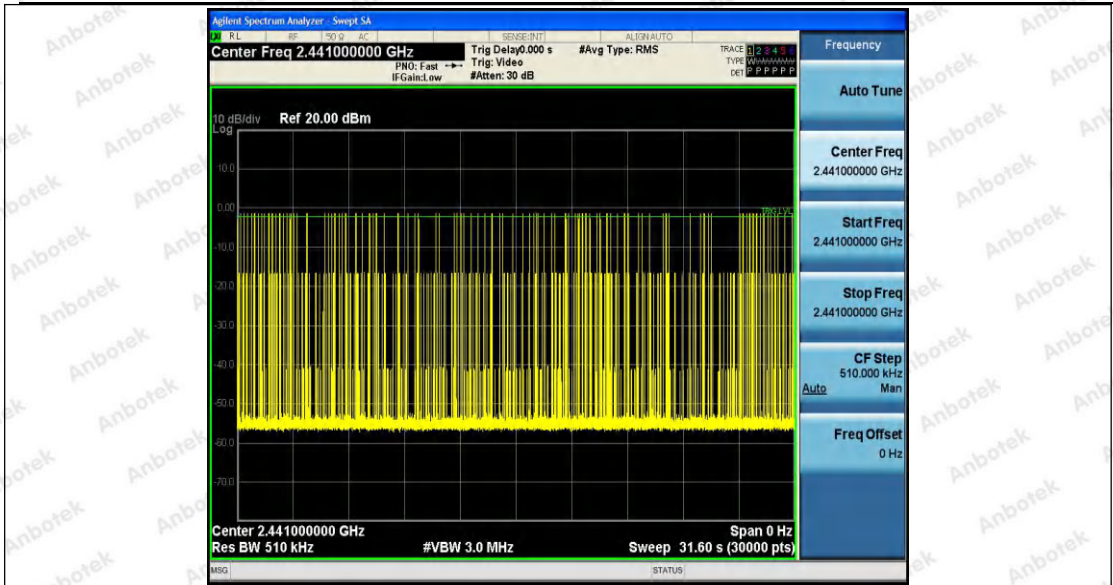
2DH5_Ant1_Hop



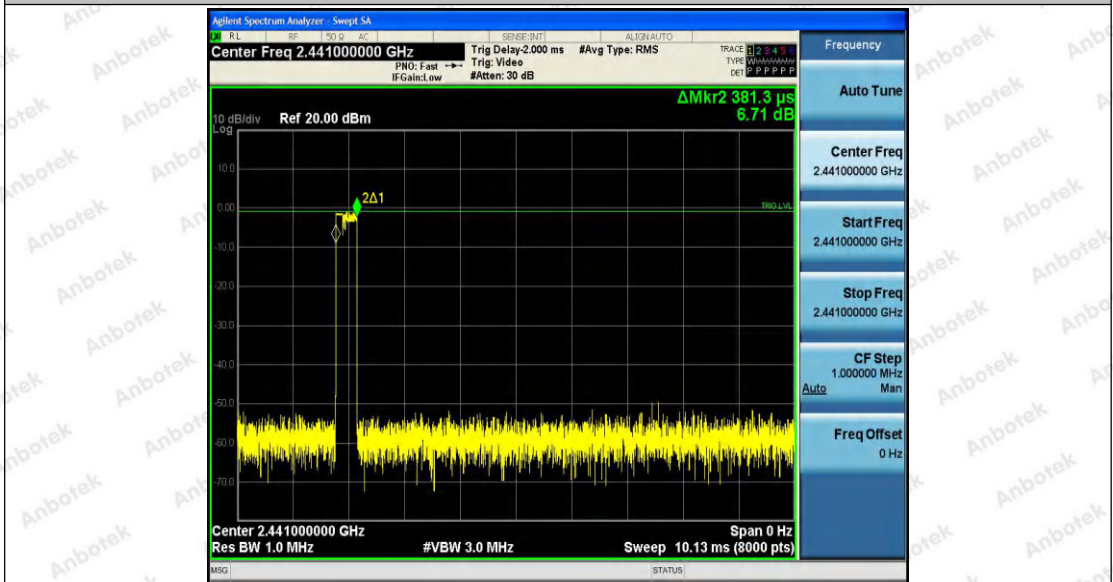
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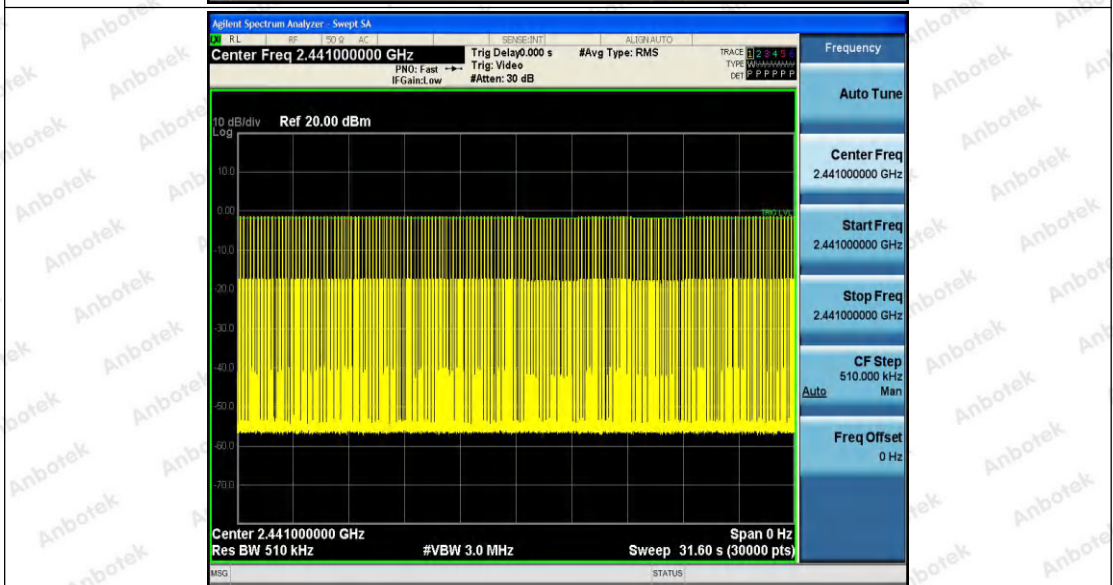
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3DH1_Ant1_Hop



3DH1_Ant1_Hop



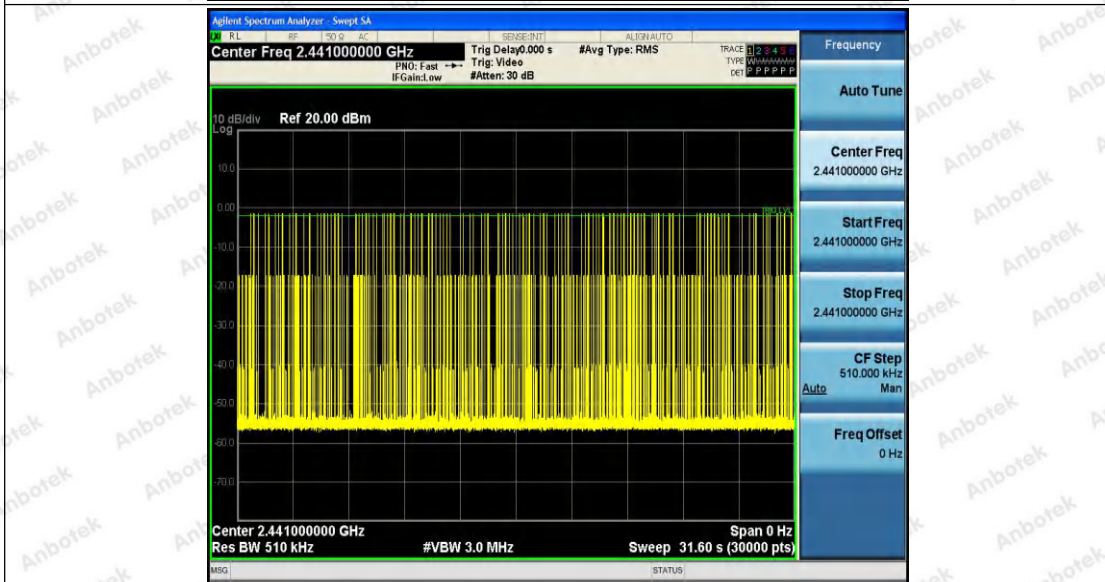
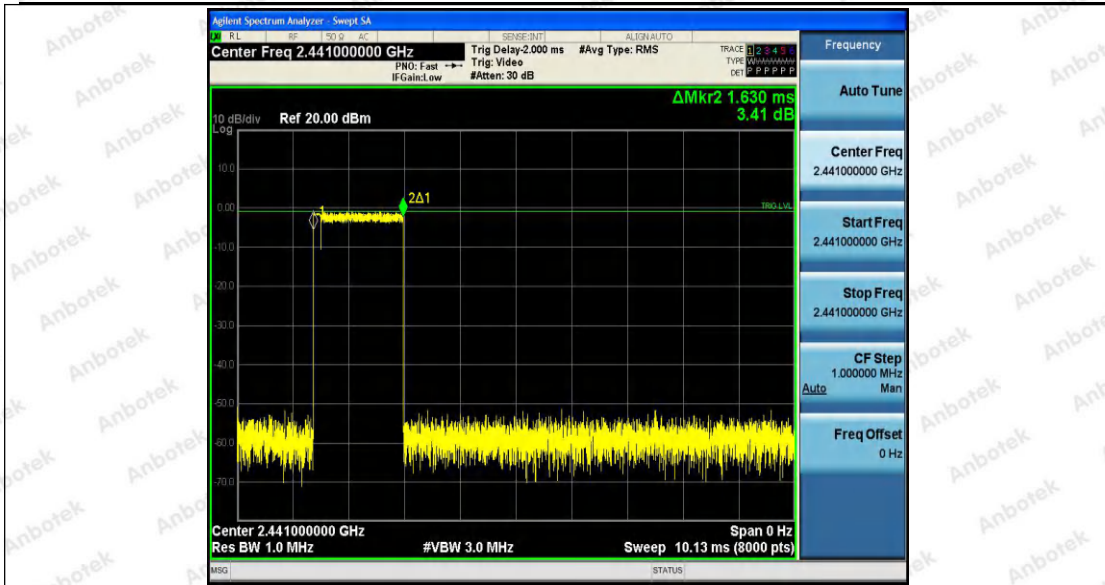
3DH3_Ant1_Hop

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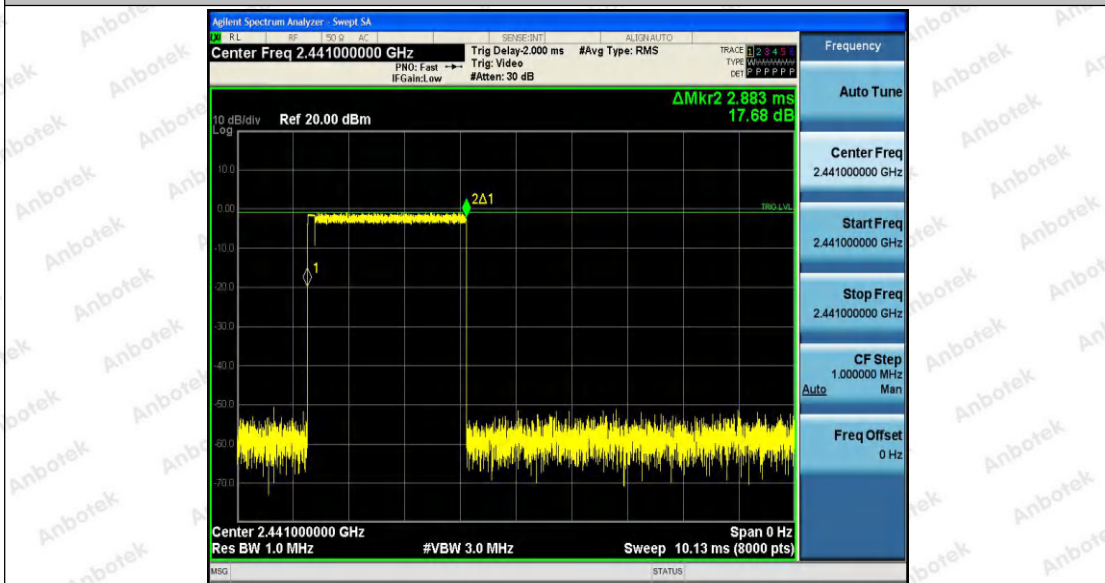
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3DH5_Ant1_Hop

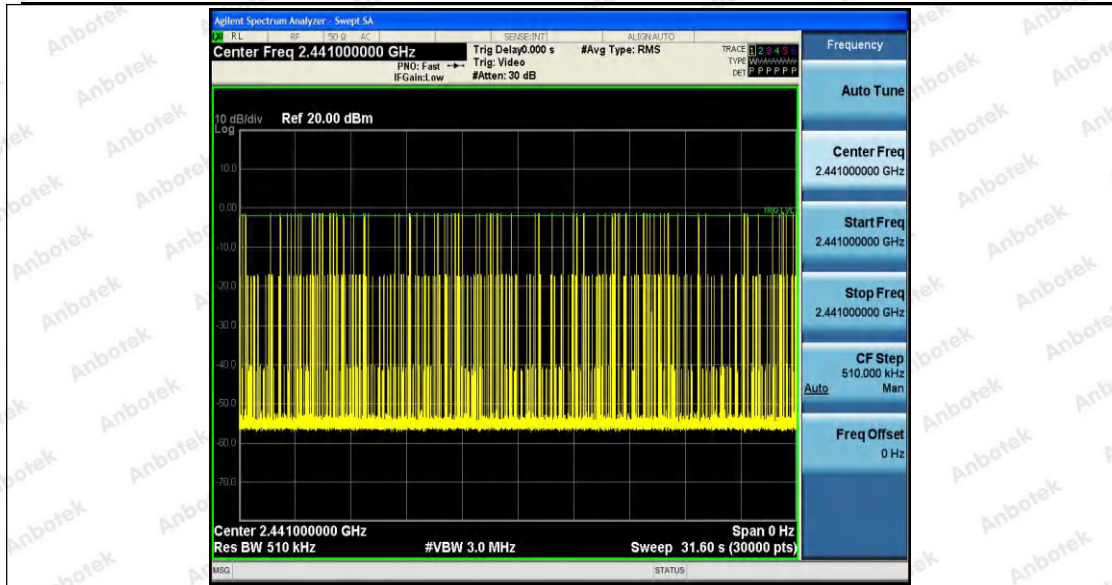


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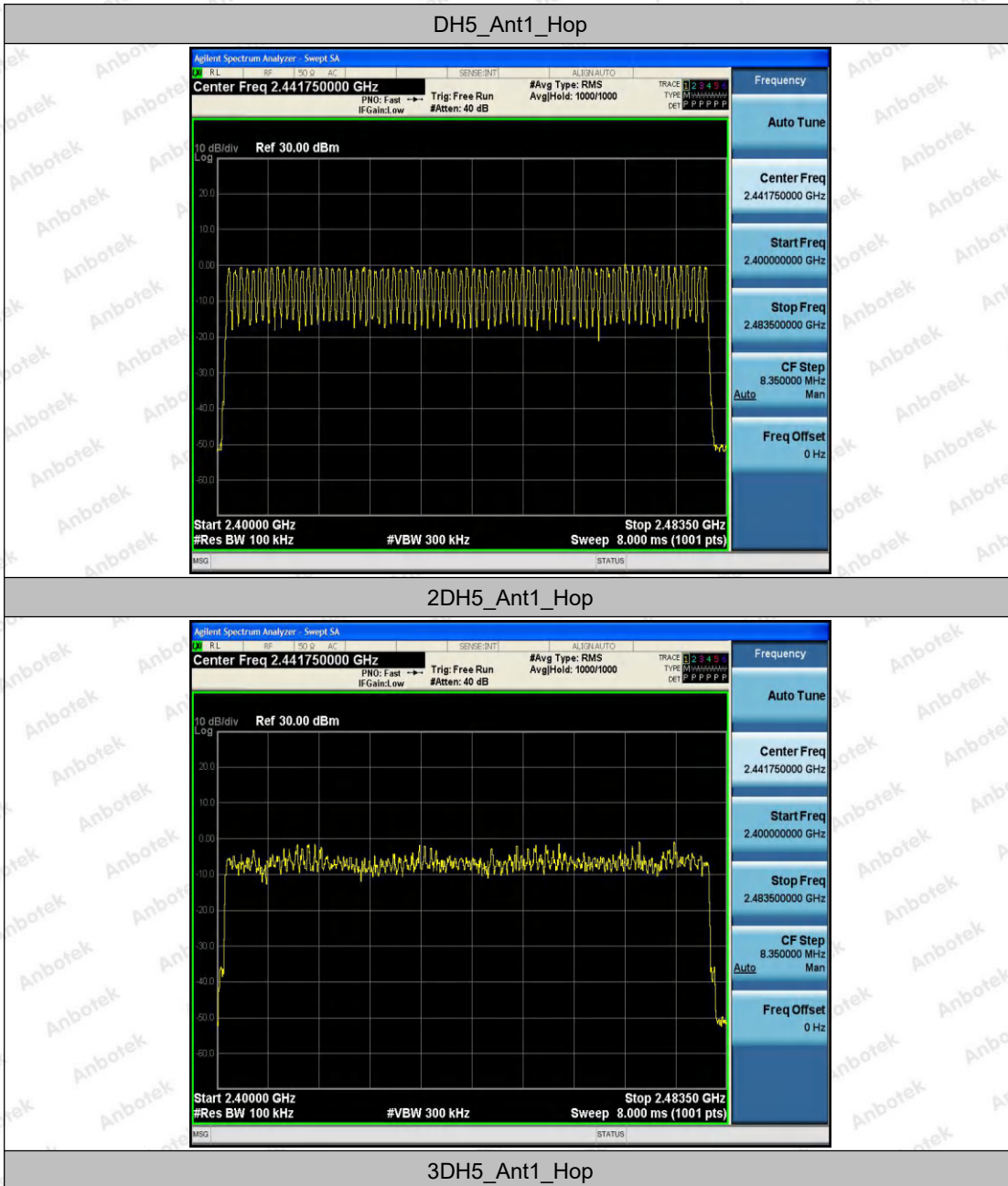
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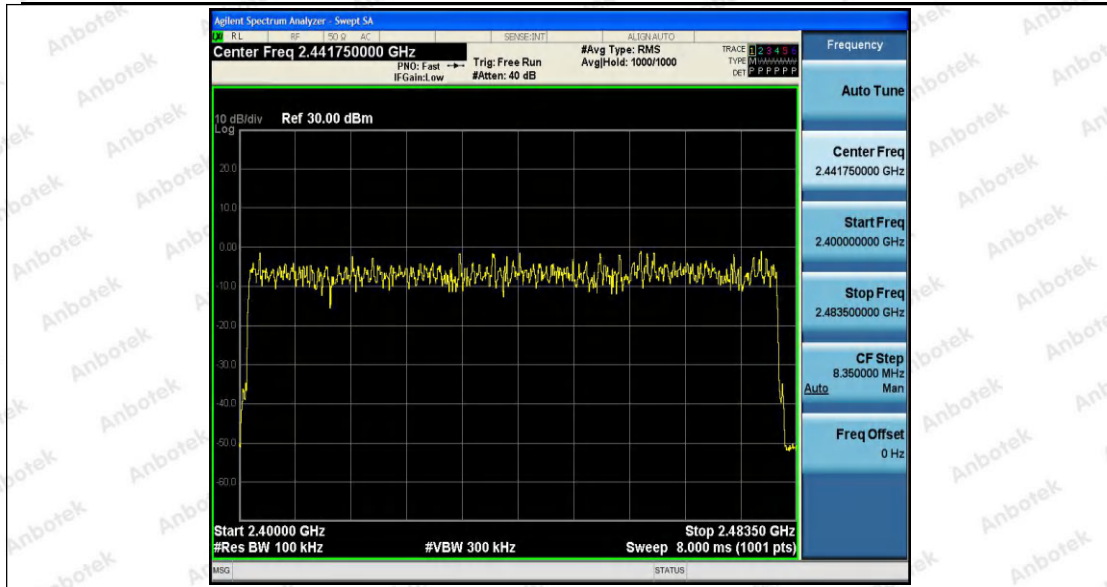
Appendix F: Number of hopping channels

Test Result

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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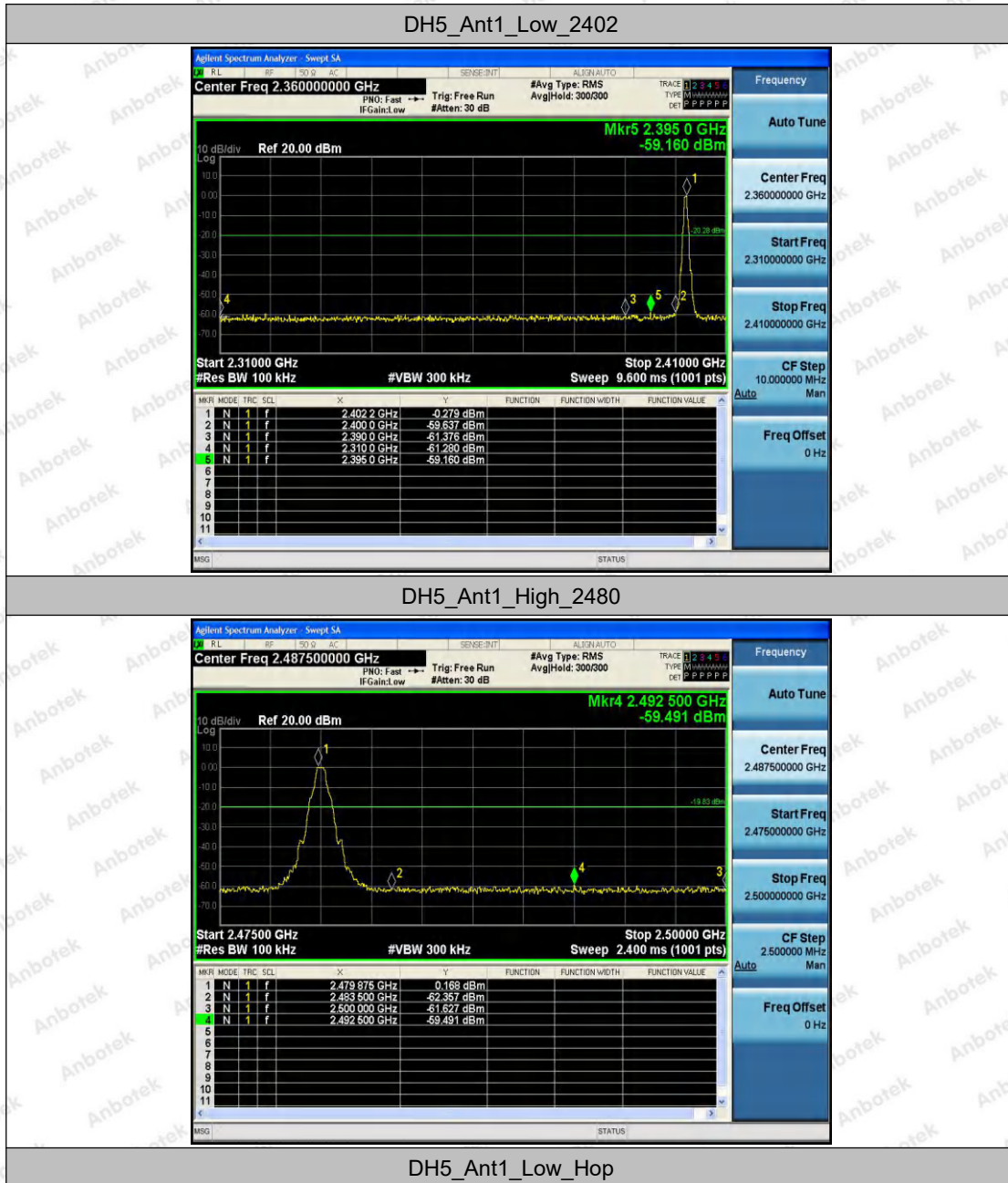
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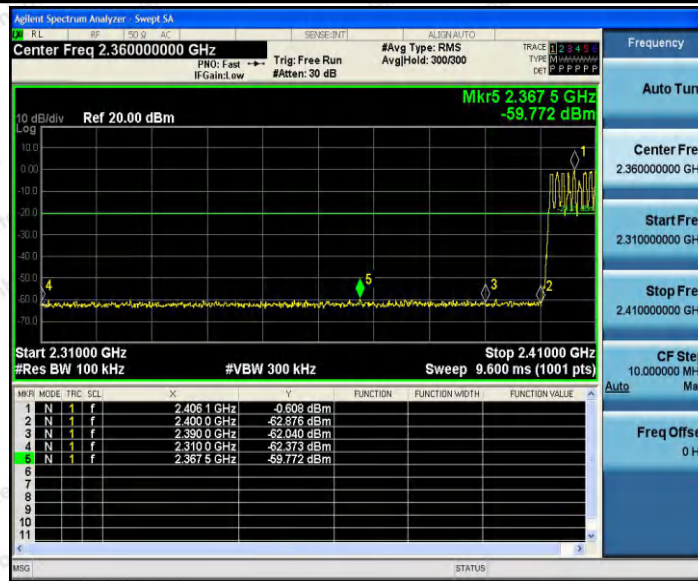
Appendix G: Band edge measurements

Test Result

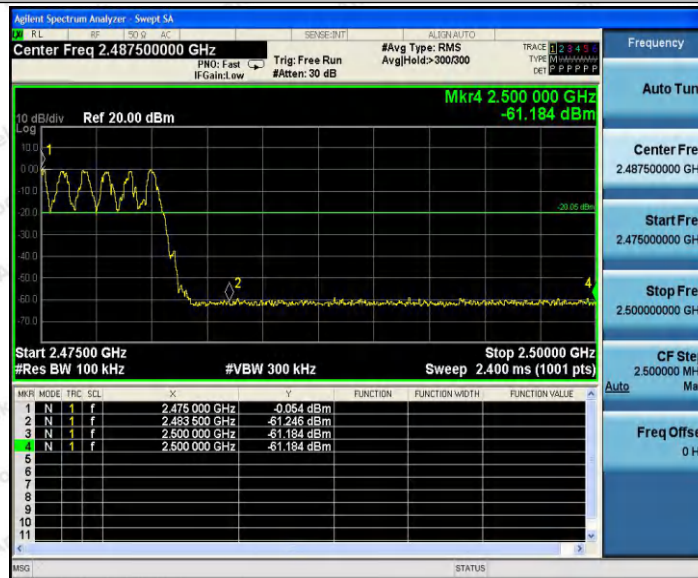
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.28	-59.16	≤-20.28	PASS
		High	2480	0.17	-59.49	≤-19.83	PASS
		Low	Hop	-0.61	-59.77	≤-20.61	PASS
		High	Hop	-0.05	-61.18	≤-20.05	PASS
2DH5	Ant1	Low	2402	-1.75	-56.6	≤-21.75	PASS
		High	2480	-1.26	-59.5	≤-21.26	PASS
		Low	Hop	-2.28	-58.89	≤-22.28	PASS
		High	Hop	-0.86	-61.87	≤-20.86	PASS
3DH5	Ant1	Low	2402	-1.37	-57.8	≤-21.37	PASS
		High	2480	-1.18	-59.81	≤-21.18	PASS
		Low	Hop	-3.27	-59.68	≤-23.27	PASS
		High	Hop	-3.67	-61.79	≤-23.67	PASS

Test Graphs

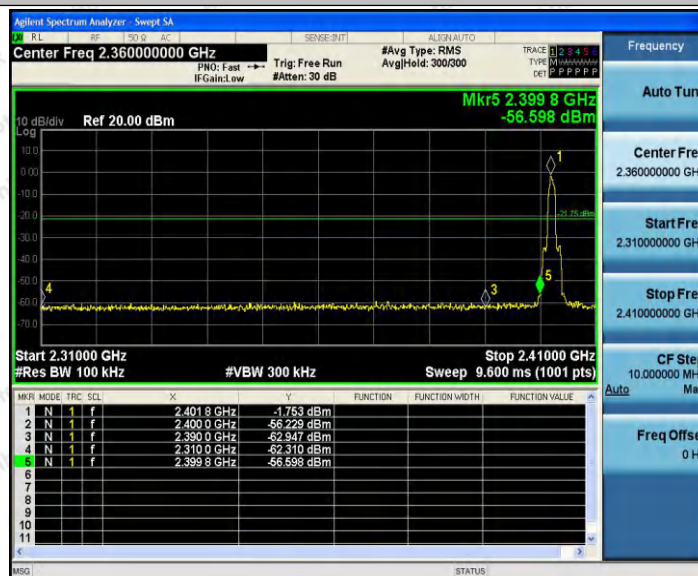




DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402

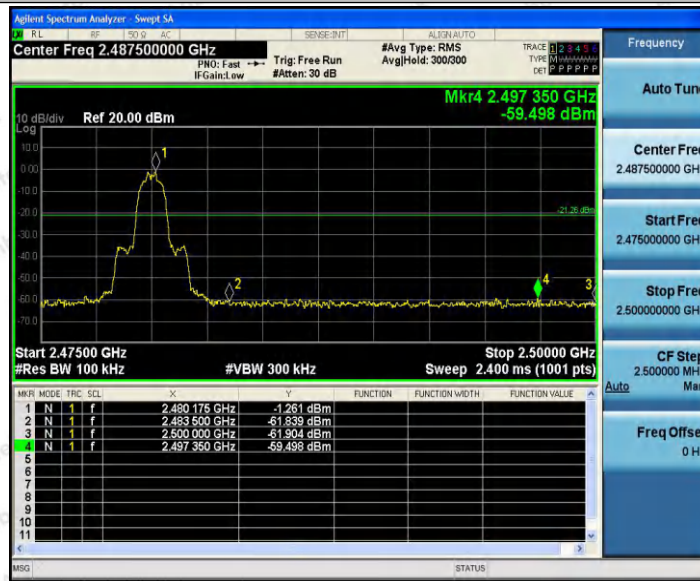


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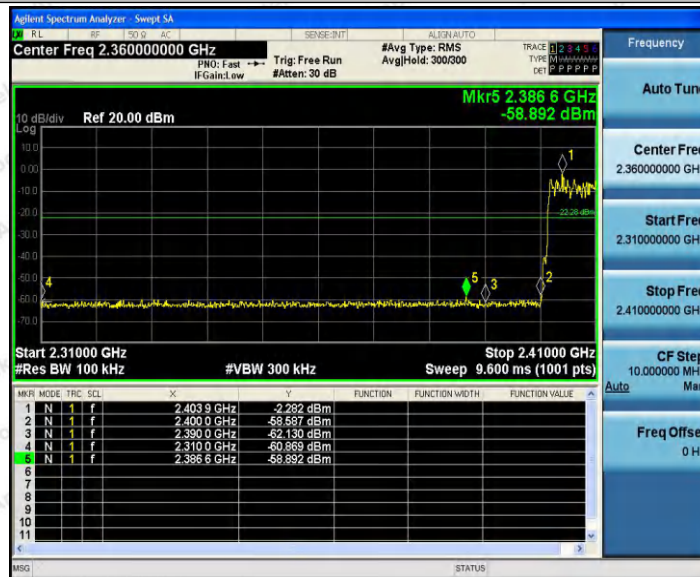
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



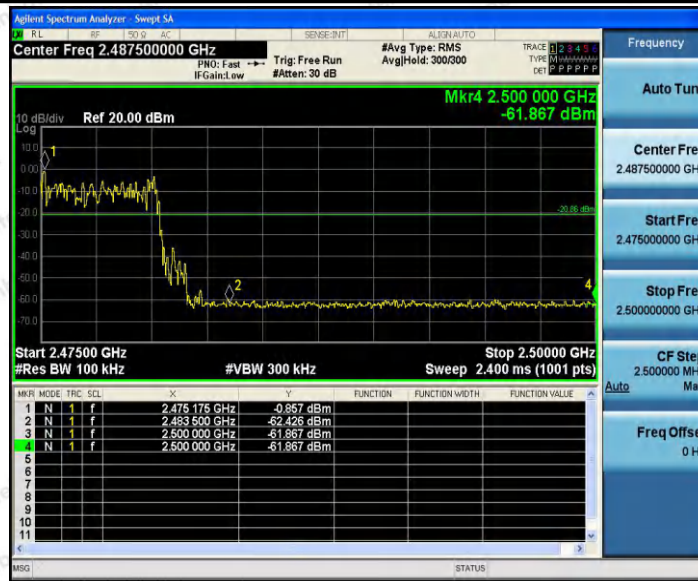
2DH5_Ant1_High_Hop

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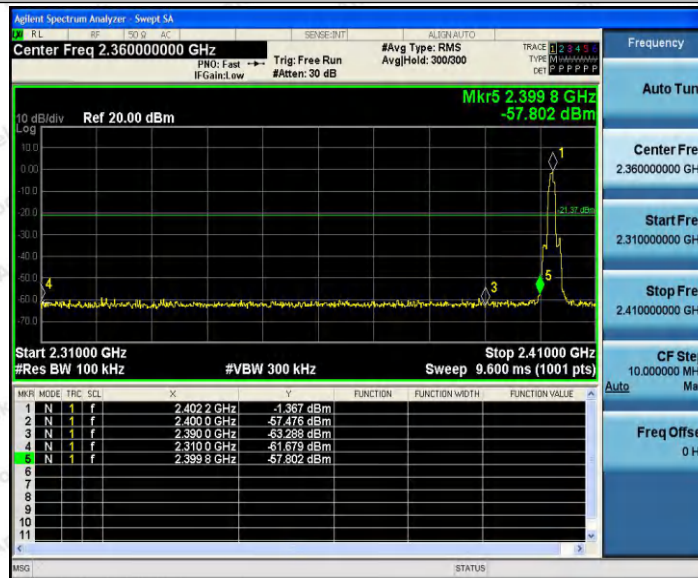
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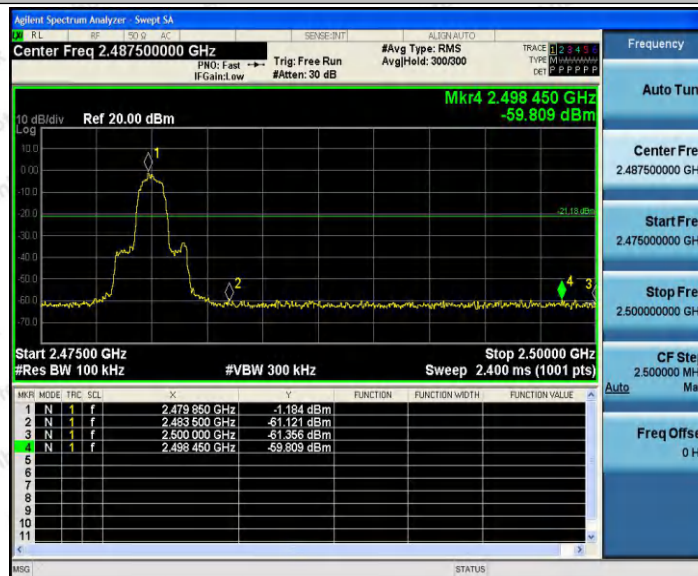
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



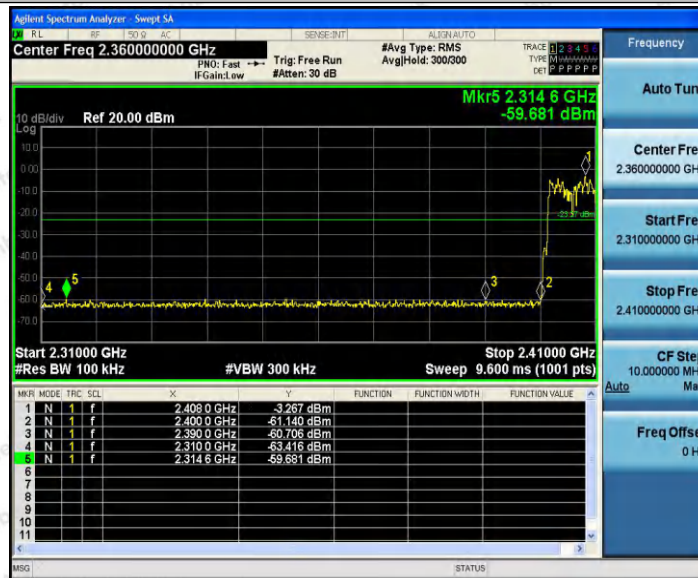
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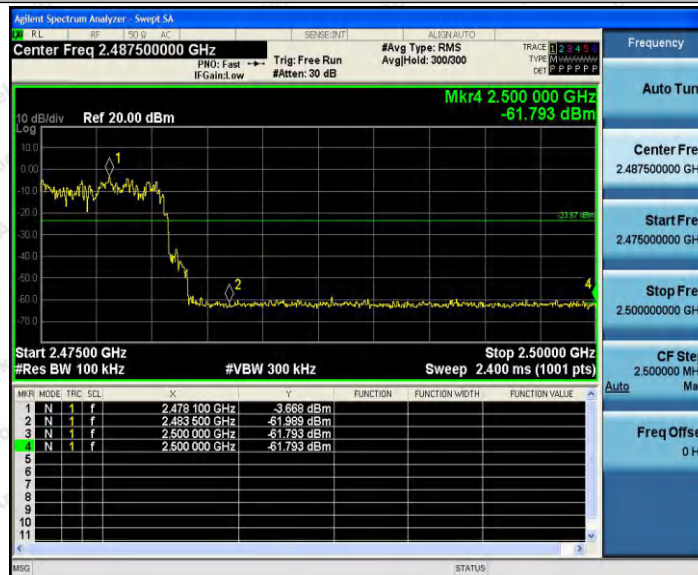
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3DH5_Ant1_Low_Hop



3DH5_Ant1_High_Hop



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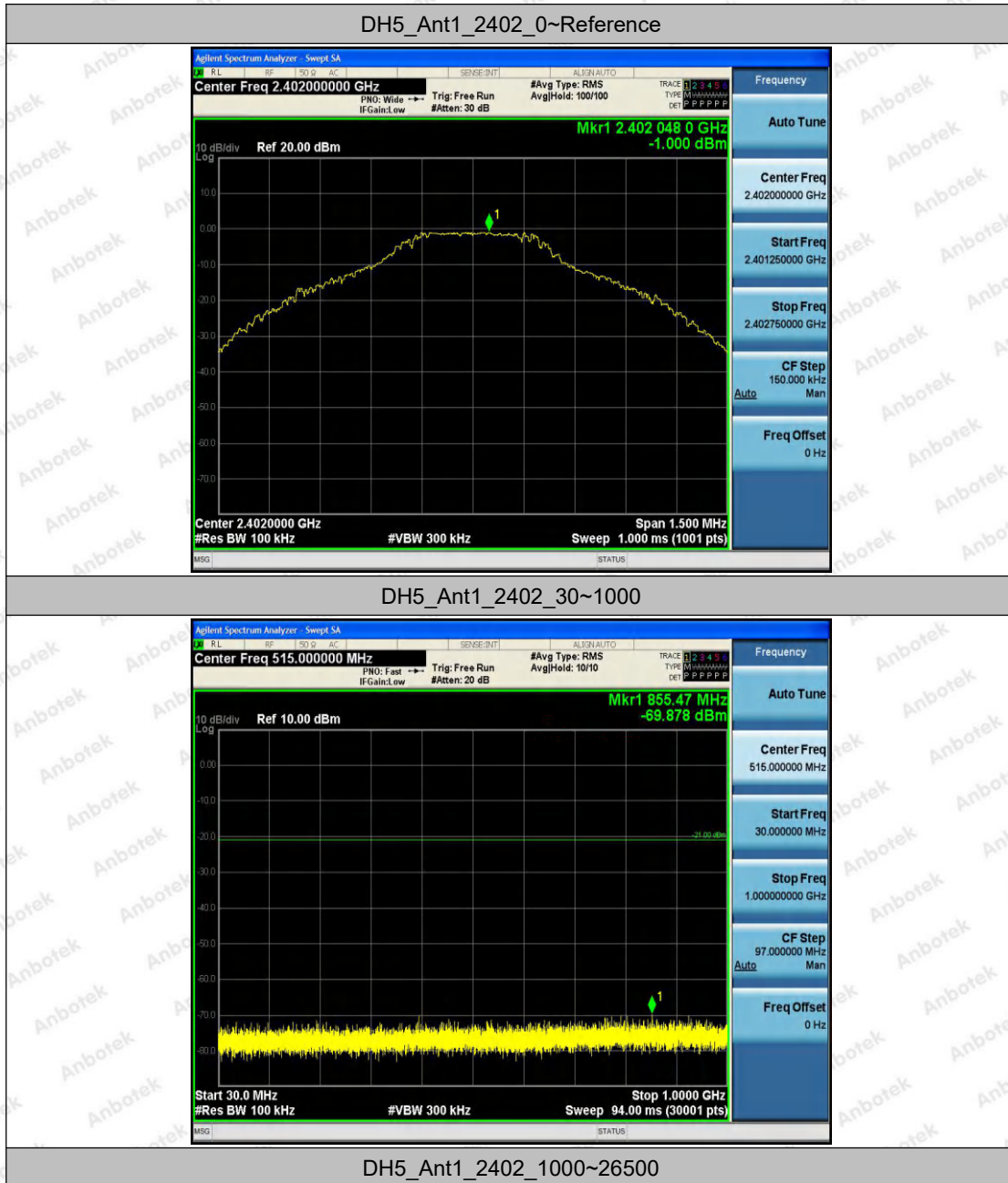
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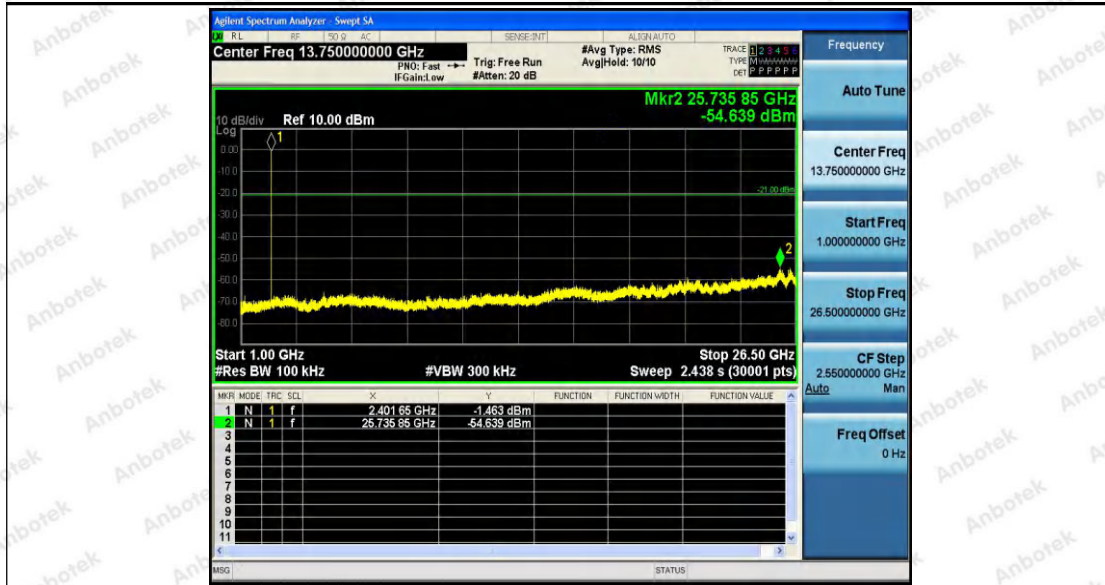
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.00	-1.00	---	PASS
			30~1000	-1.00	-69.88	≤-21	PASS
			1000~26500	-1.00	-54.64	≤-21	PASS
		2441	Reference	-0.62	-0.62	---	PASS
			30~1000	-0.62	-70.09	≤-20.62	PASS
			1000~26500	-0.62	-55.08	≤-20.62	PASS
		2480	Reference	-0.34	-0.34	---	PASS
			30~1000	-0.34	-70.63	≤-20.34	PASS
			1000~26500	-0.34	-54.92	≤-20.34	PASS
2DH5	Ant1	2402	Reference	-1.61	-1.61	---	PASS
			30~1000	-1.61	-70.45	≤-21.61	PASS
			1000~26500	-1.61	-55.36	≤-21.61	PASS
		2441	Reference	-3.12	-3.12	---	PASS
			30~1000	-3.12	-69.45	≤-23.12	PASS
			1000~26500	-3.12	-55.5	≤-23.12	PASS
		2480	Reference	-1.11	-1.11	---	PASS
			30~1000	-1.11	-70.78	≤-21.11	PASS
			1000~26500	-1.11	-55.07	≤-21.11	PASS
3DH5	Ant1	2402	Reference	-1.40	-1.40	---	PASS
			30~1000	-1.40	-70.11	≤-21.4	PASS
			1000~26500	-1.40	-55.27	≤-21.4	PASS
		2441	Reference	-1.59	-1.59	---	PASS
			30~1000	-1.59	-70.55	≤-21.59	PASS
			1000~26500	-1.59	-55.1	≤-21.59	PASS
		2480	Reference	-0.84	-0.84	---	PASS
			30~1000	-0.84	-69.99	≤-20.84	PASS
			1000~26500	-0.84	-55.73	≤-20.84	PASS

Test Graphs

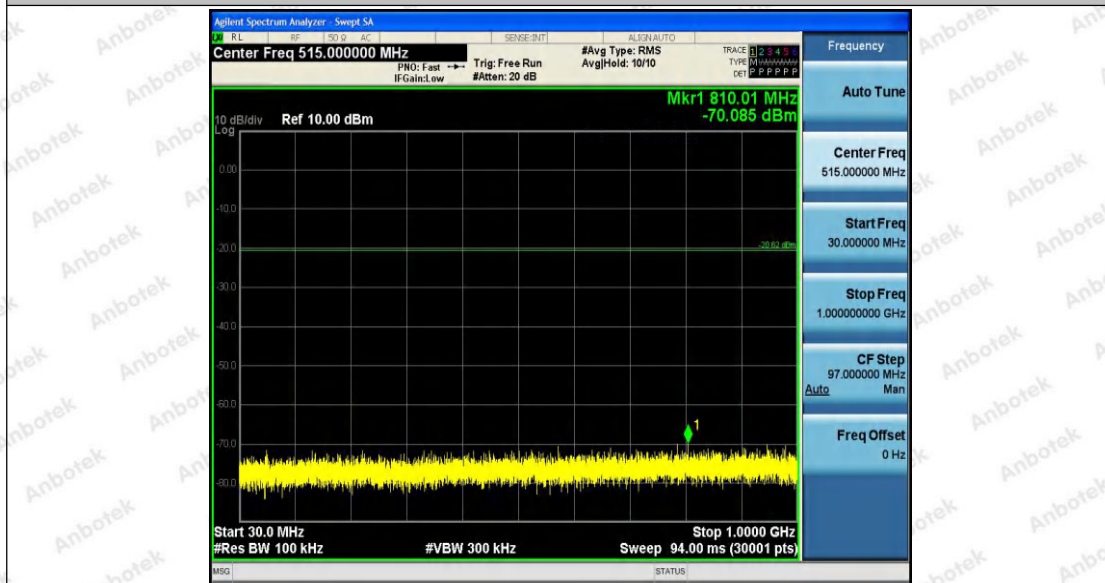




DH5_Ant1_2441_0~Reference



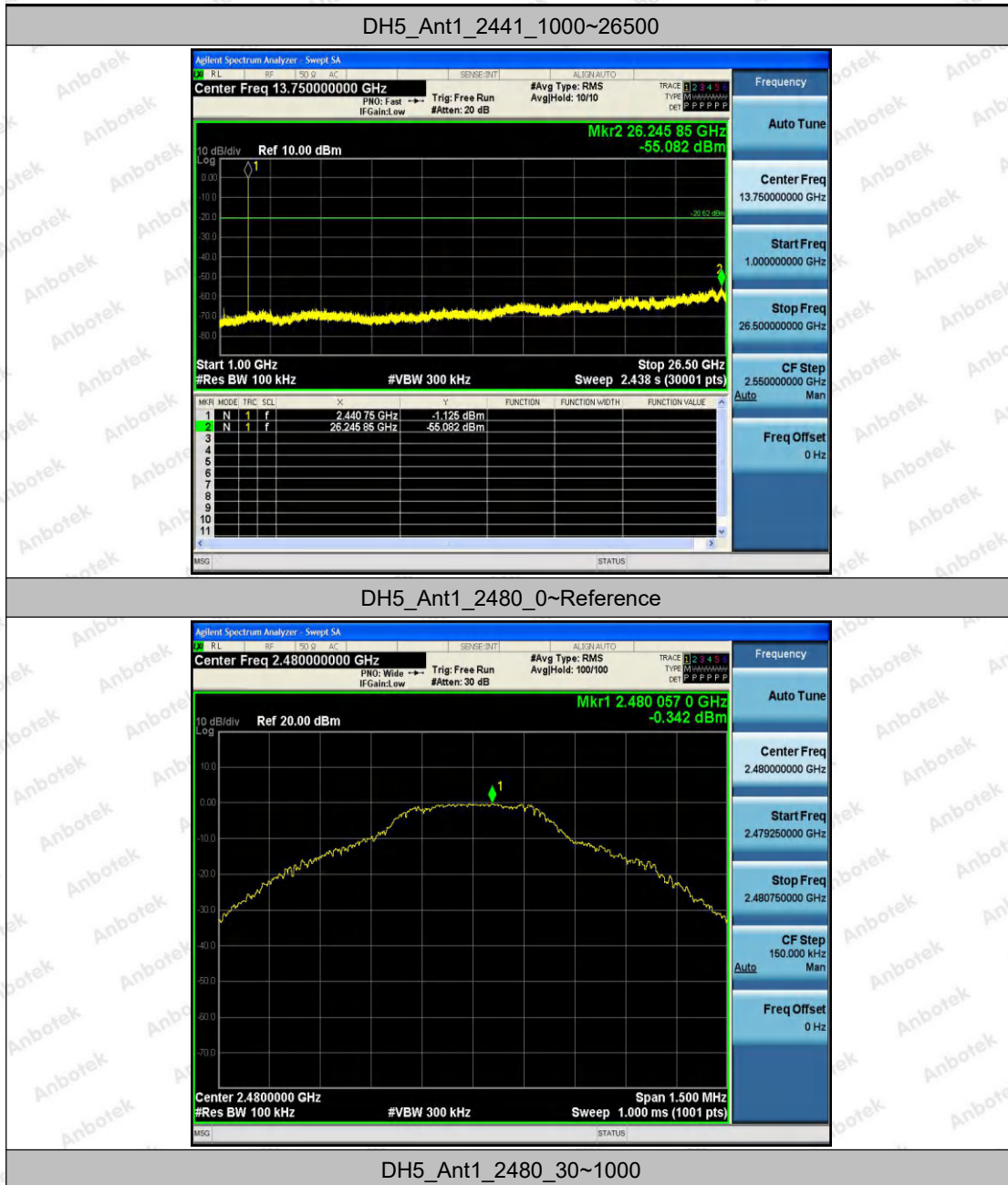
DH5_Ant1_2441_30~1000



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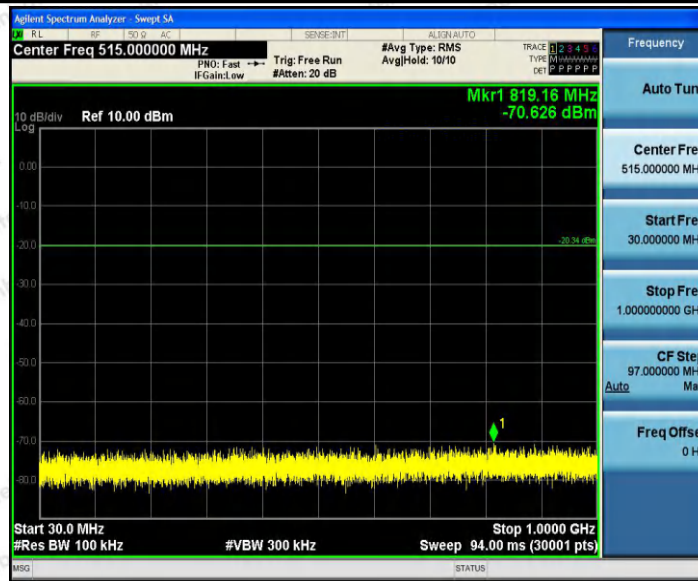


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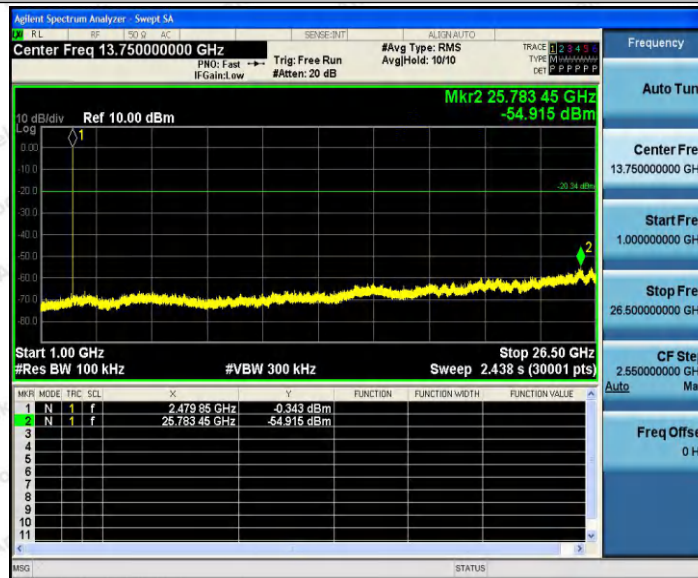
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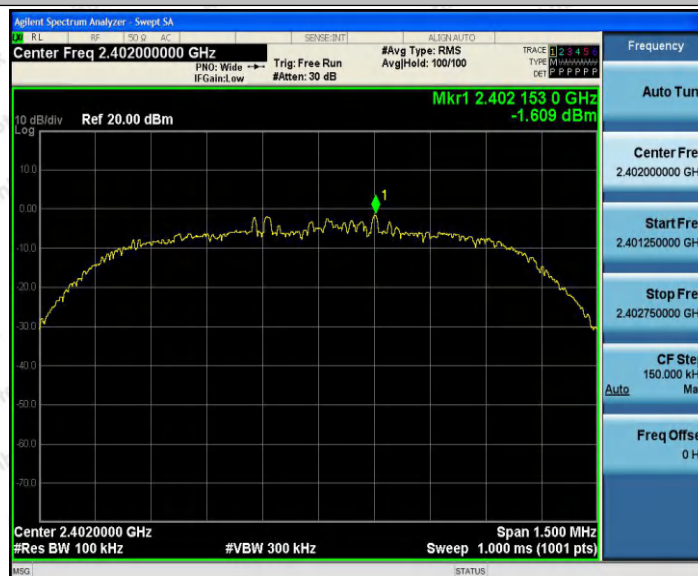
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

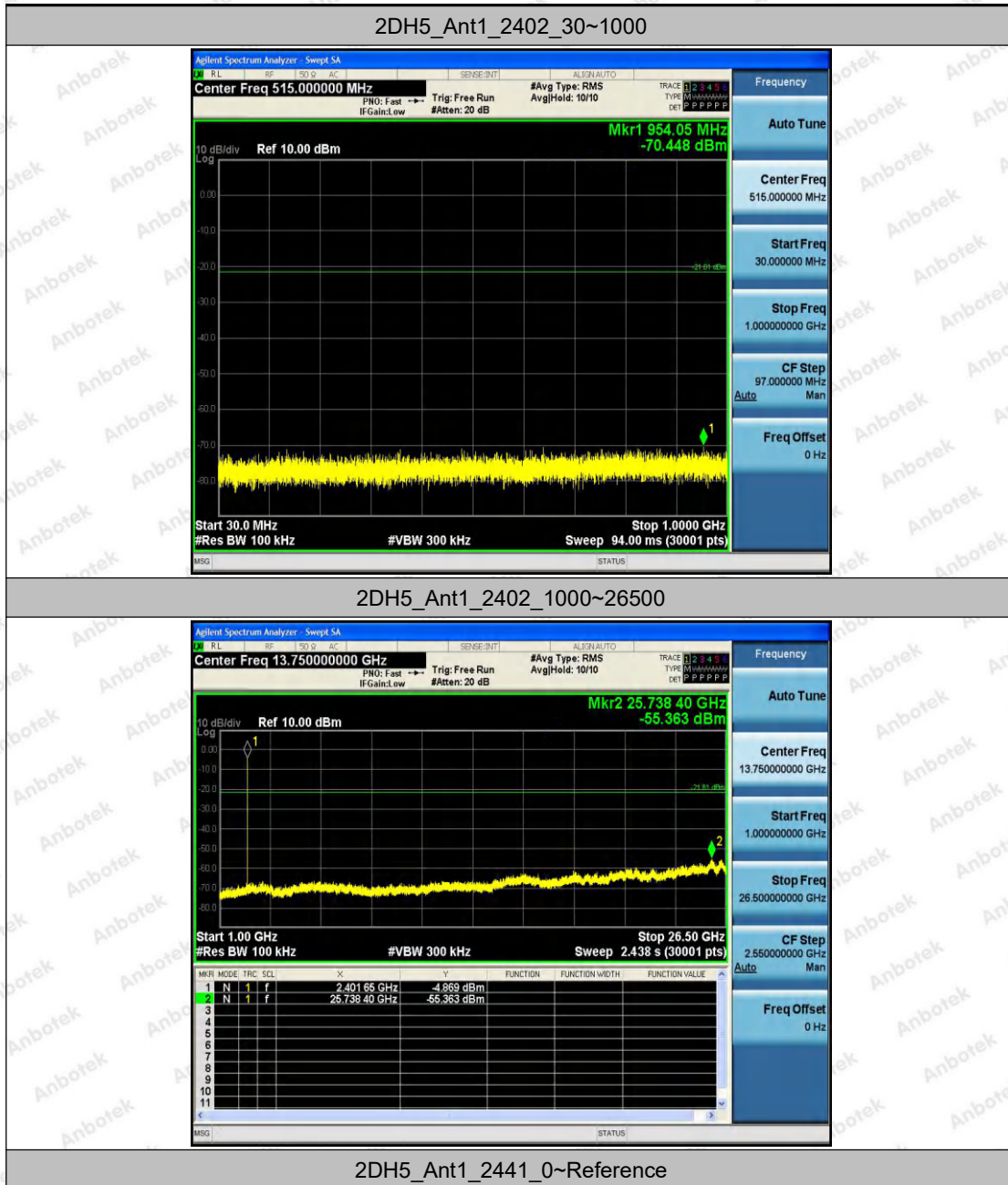


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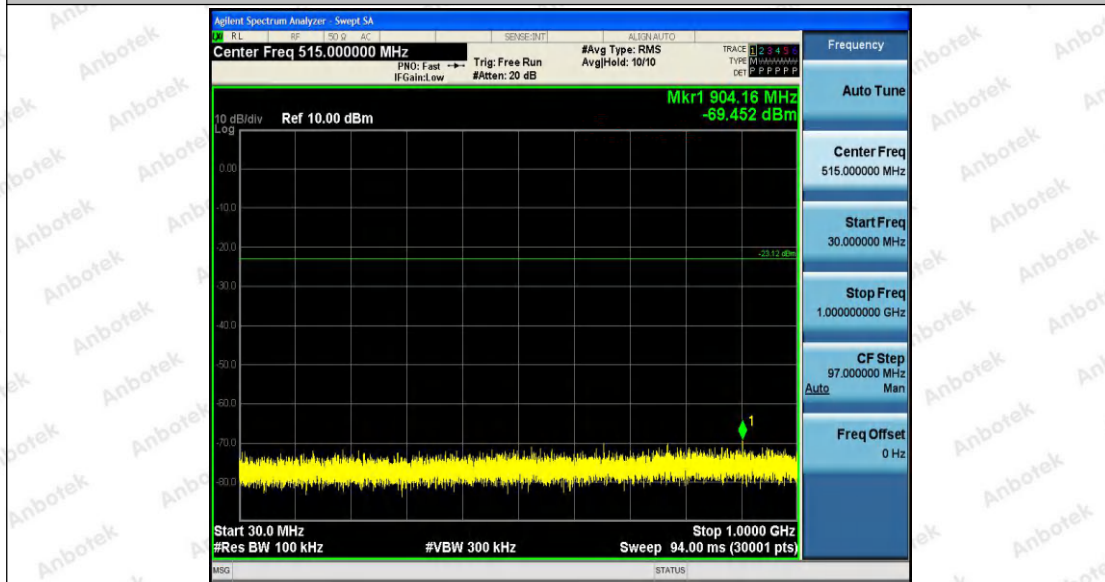
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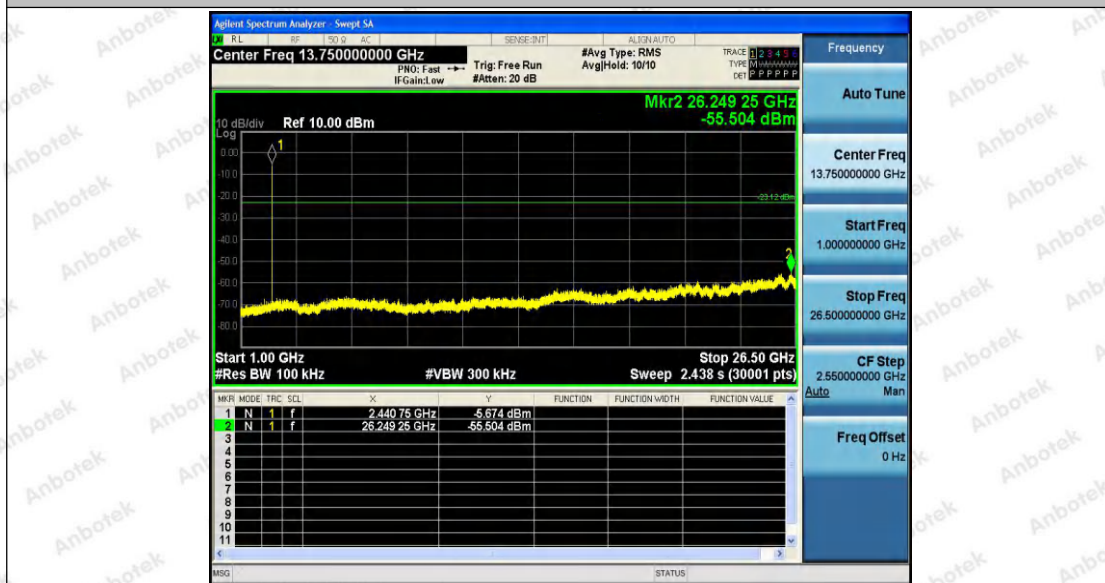
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

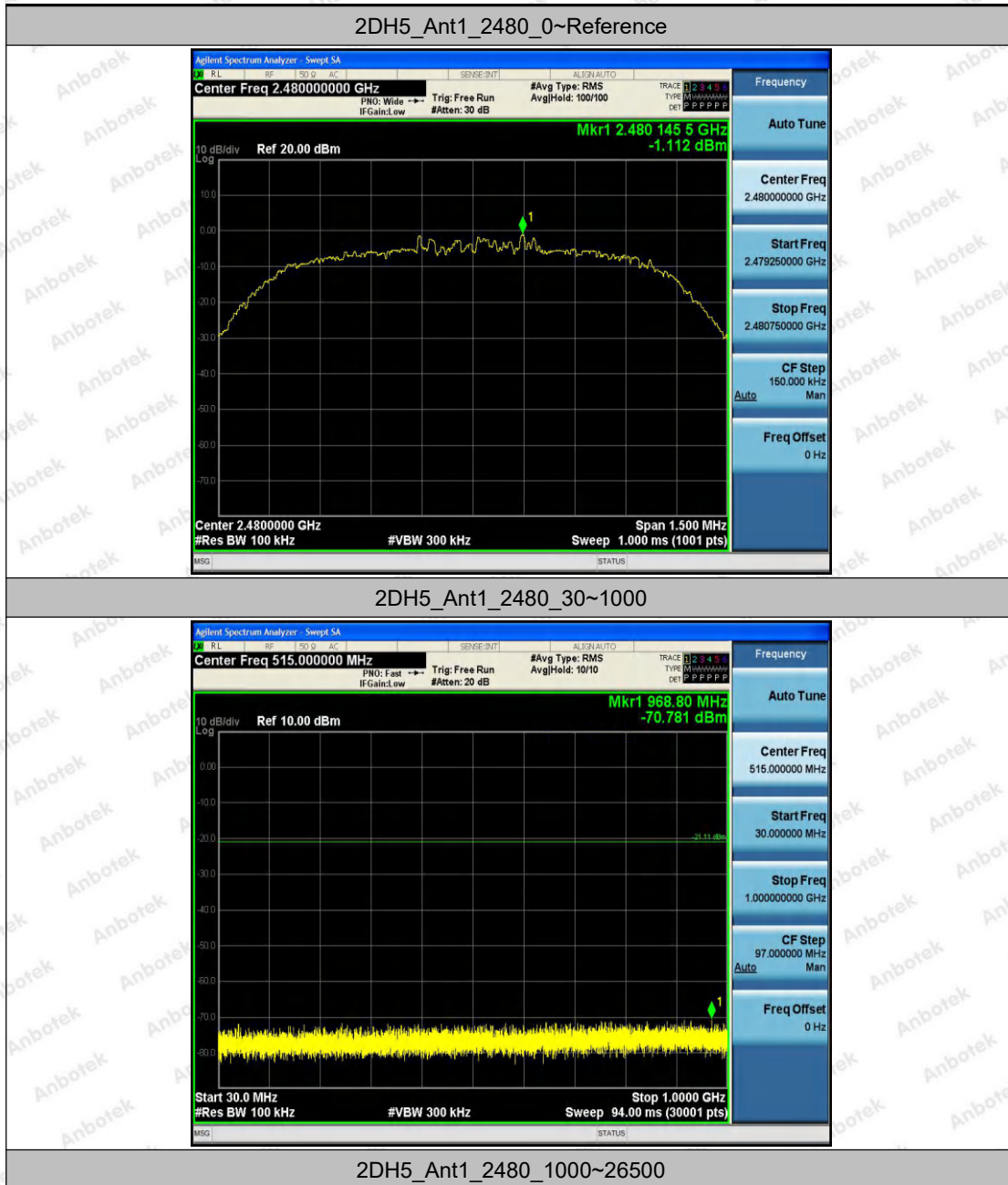


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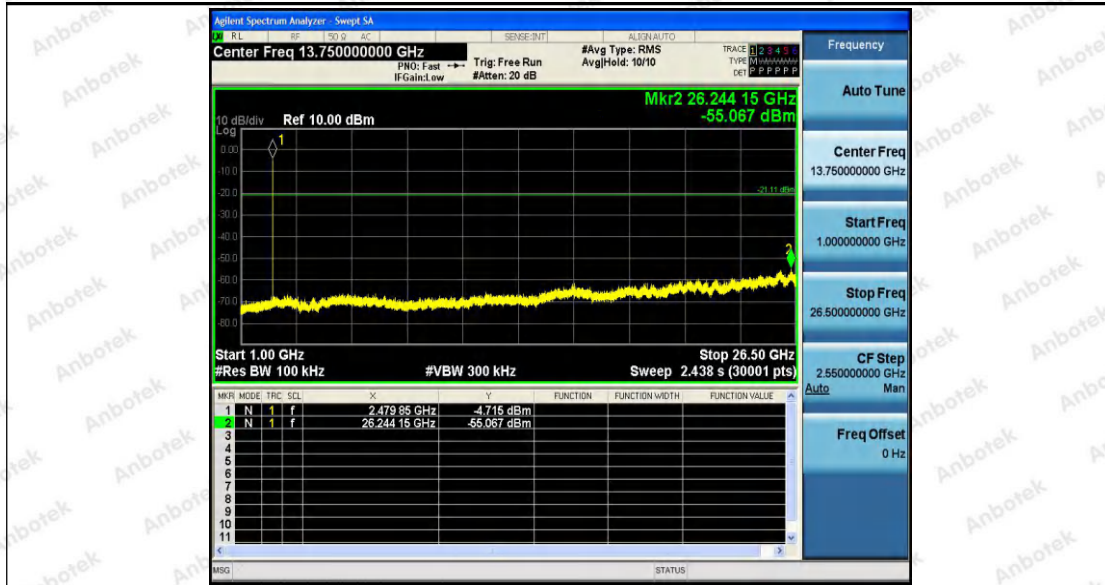
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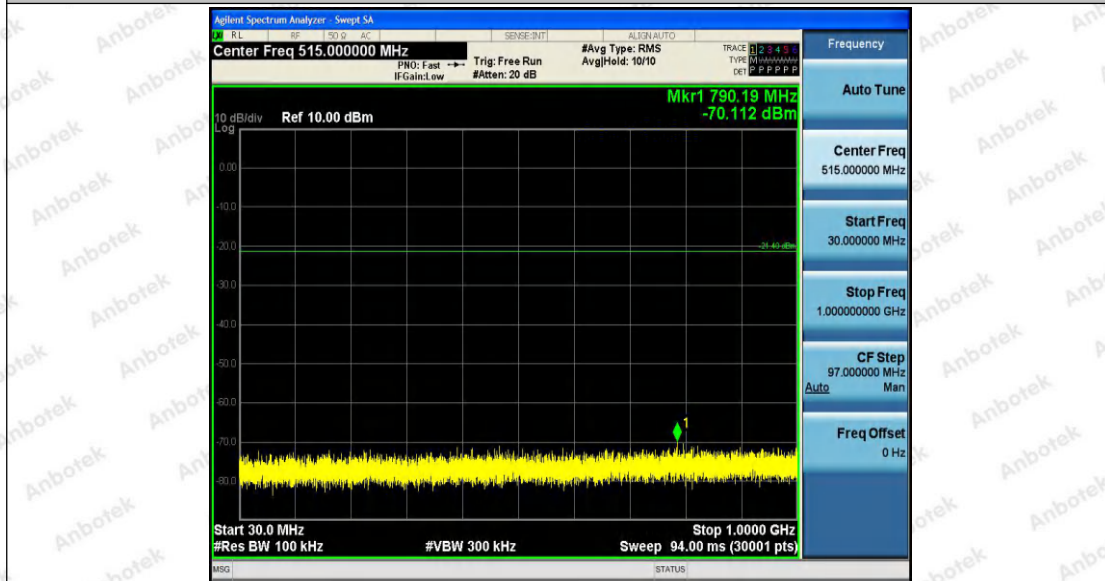
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000

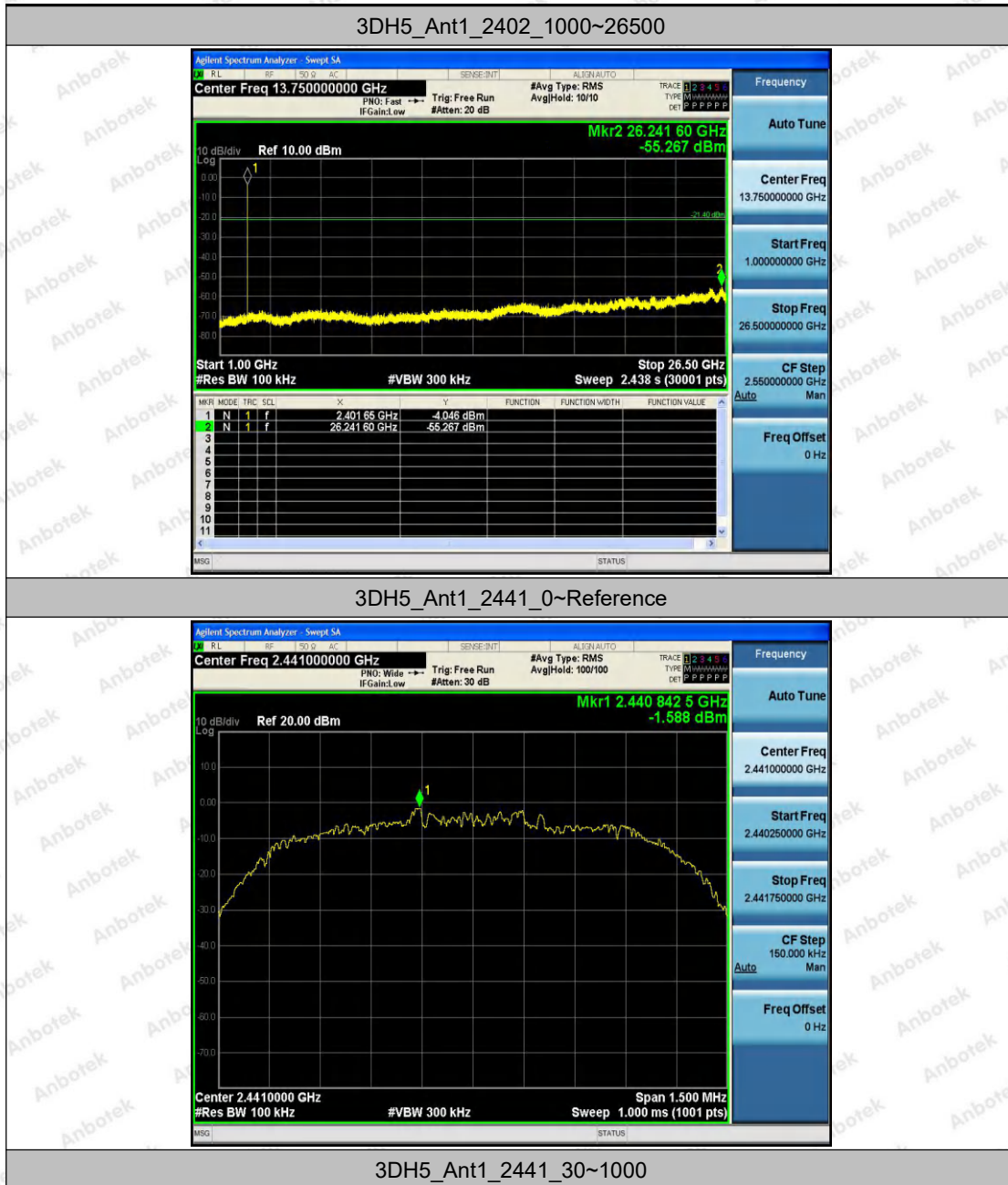


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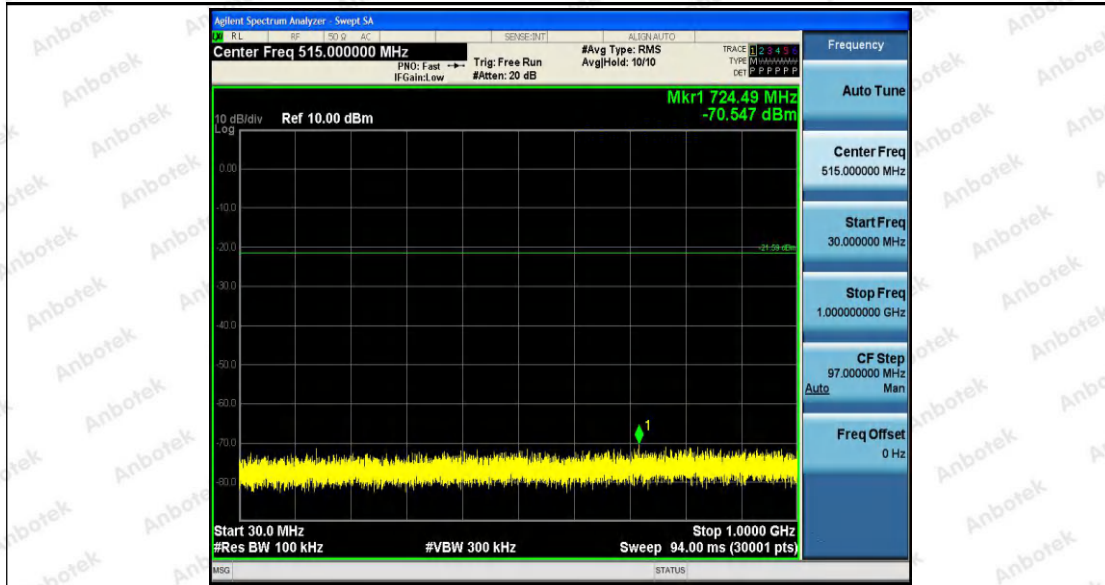
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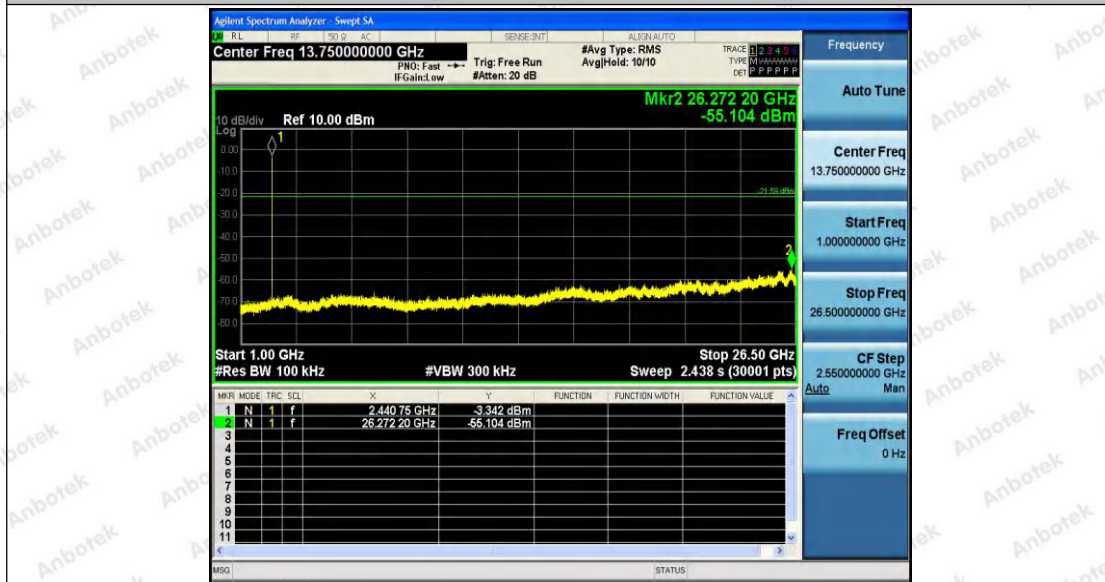
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

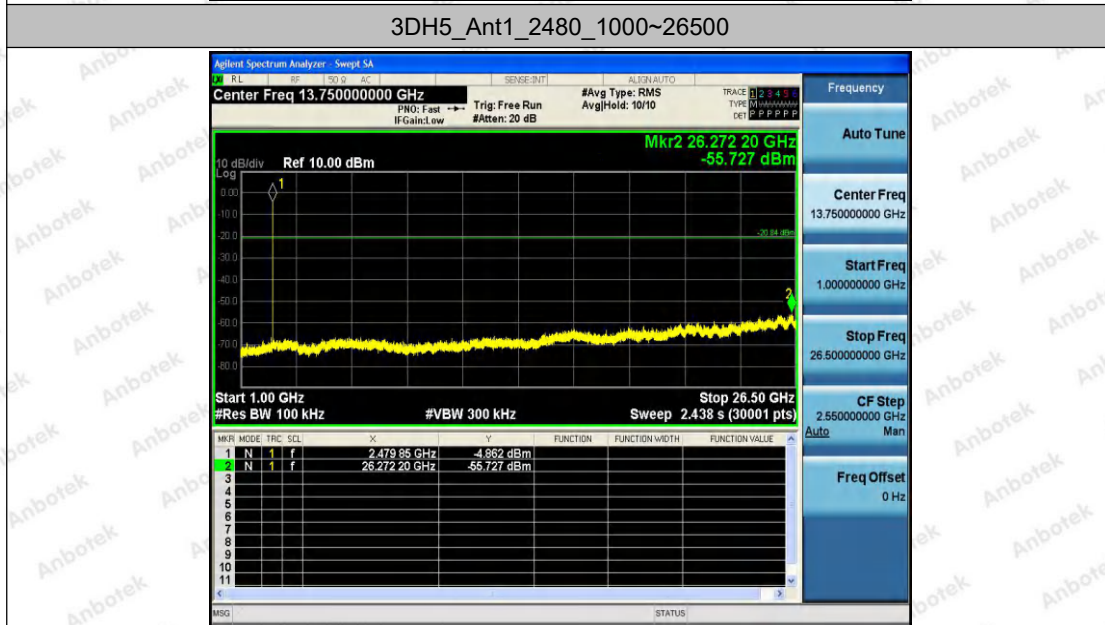
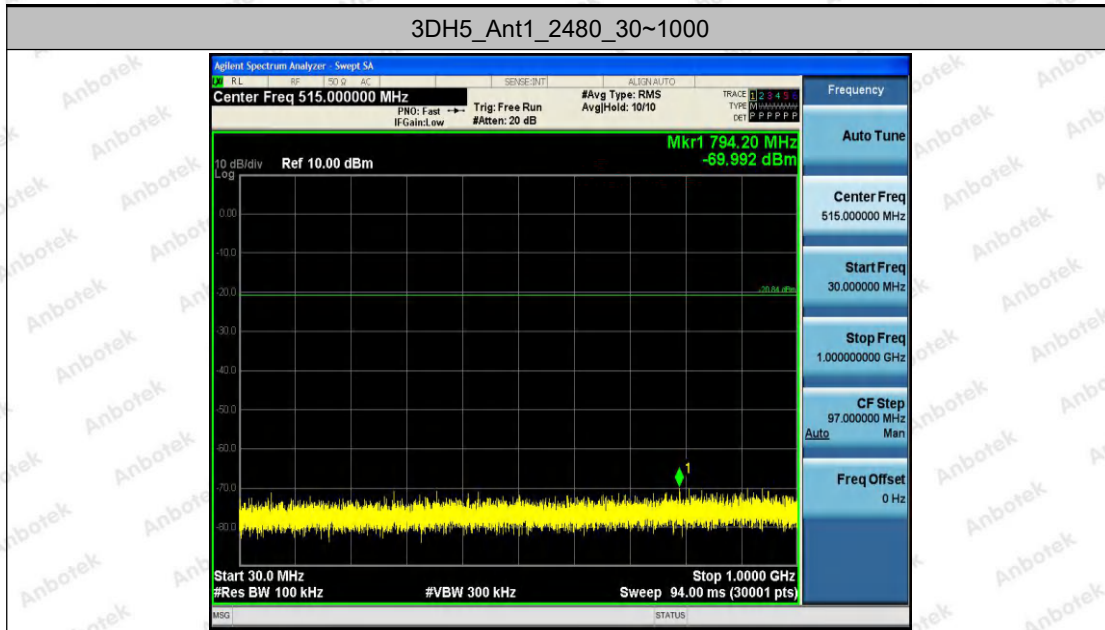


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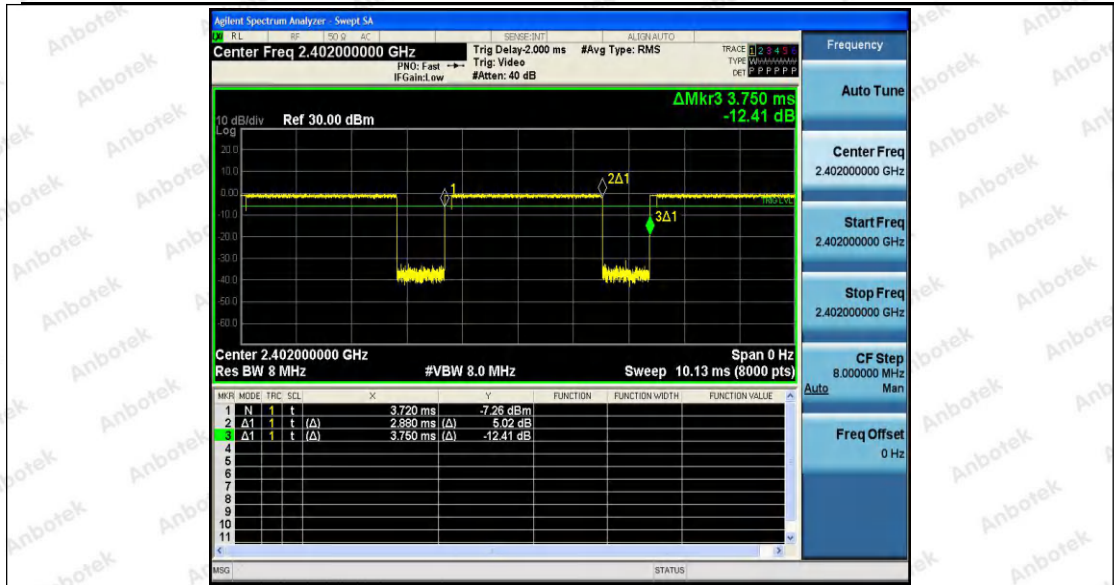
Appendix I: Duty Cycle

Test Result

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---