

Appendix Test Data

Report No.:	18220WC20039701	Test Sample No.:	1-2-2
Start Test Date:	2022.3.2	Finish Test Date:	2022.3.14
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	0.948	2401.538	2402.486	---	PASS
		2441	0.942	2440.541	2441.483	---	PASS
		2480	0.948	2479.538	2480.486	---	PASS
2DH5	Ant1	2402	1.269	2401.367	2402.636	---	PASS
		2441	1.326	2440.337	2441.663	---	PASS
		2480	1.263	2479.367	2480.630	---	PASS
3DH5	Ant1	2402	1.278	2401.349	2402.627	---	PASS
		2441	1.302	2440.346	2441.648	---	PASS
		2480	1.329	2479.334	2480.663	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



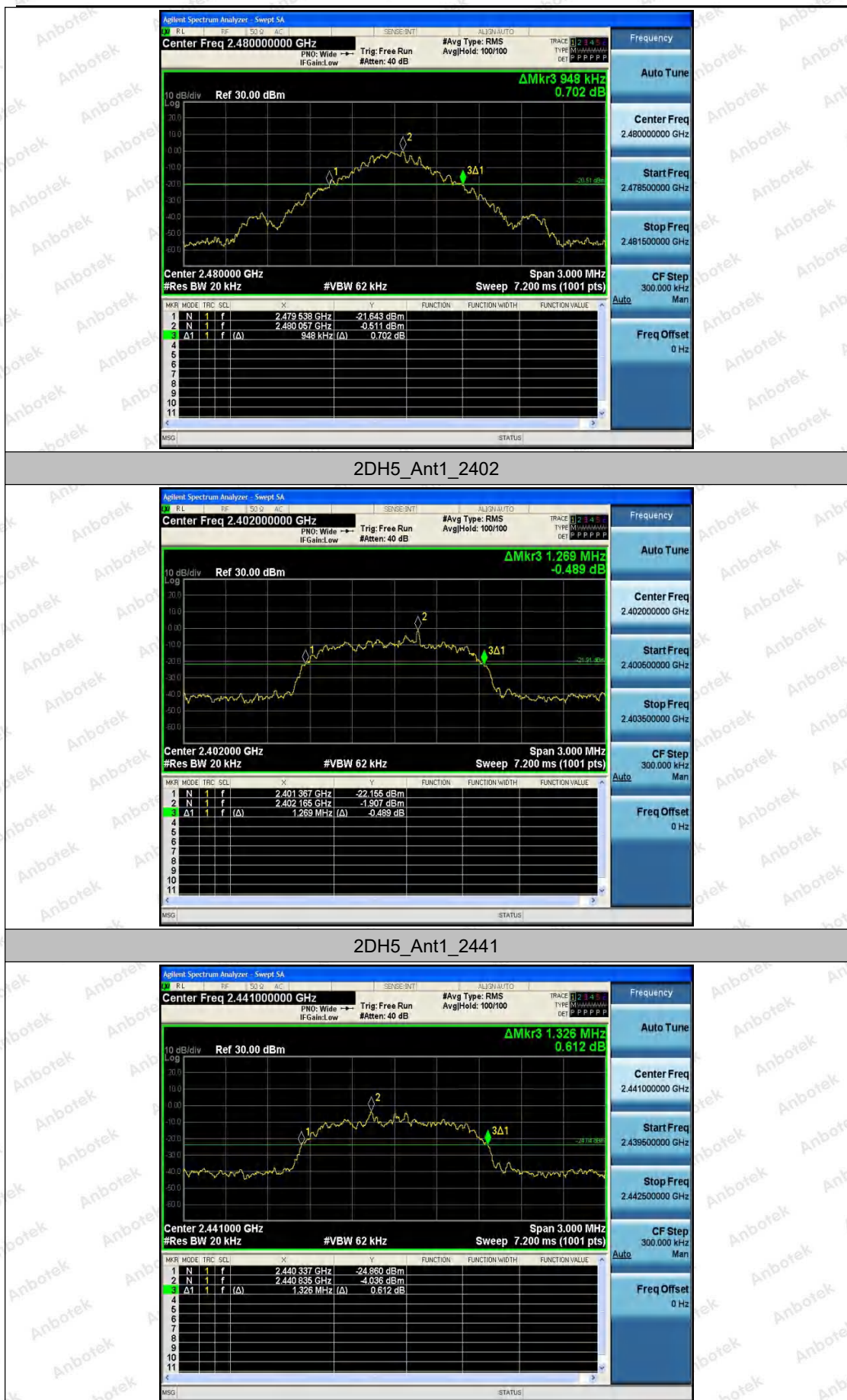
DH5_Ant1_2480

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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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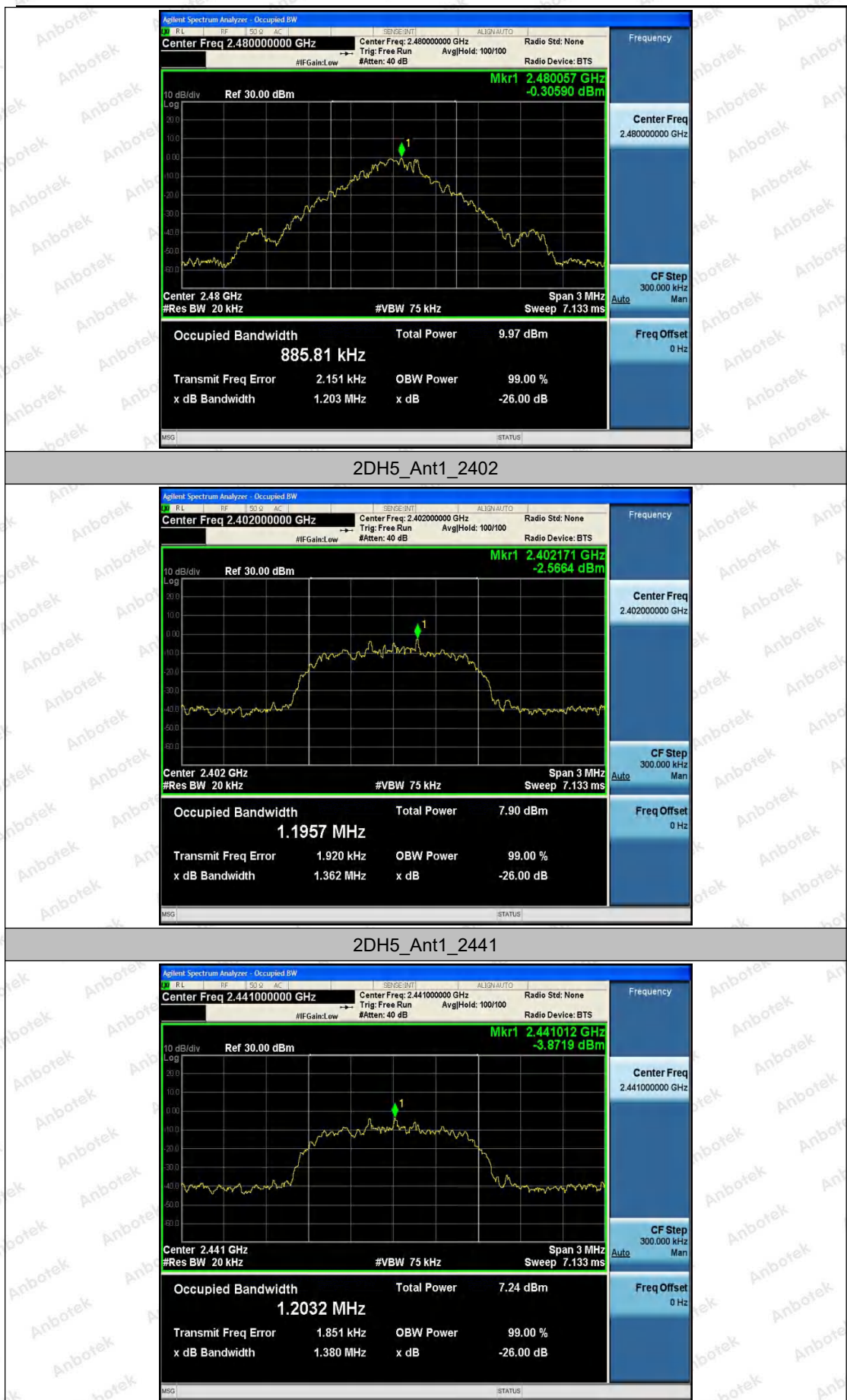
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89847	2401.55 5	2402.453	---	PASS
		2441	0.88957	2440.55 8	2441.447	---	PASS
		2480	0.88581	2479.55 9	2480.445	---	PASS
2DH5	Ant1	2402	1.1957	2401.40 4	2402.600	---	PASS
		2441	1.2032	2440.40 0	2441.603	---	PASS
		2480	1.1888	2479.40 6	2480.595	---	PASS
3DH5	Ant1	2402	1.2118	2401.38 4	2402.596	---	PASS
		2441	1.2141	2440.38 4	2441.598	---	PASS
		2480	1.2099	2479.38 6	2480.596	---	PASS

Test Graphs





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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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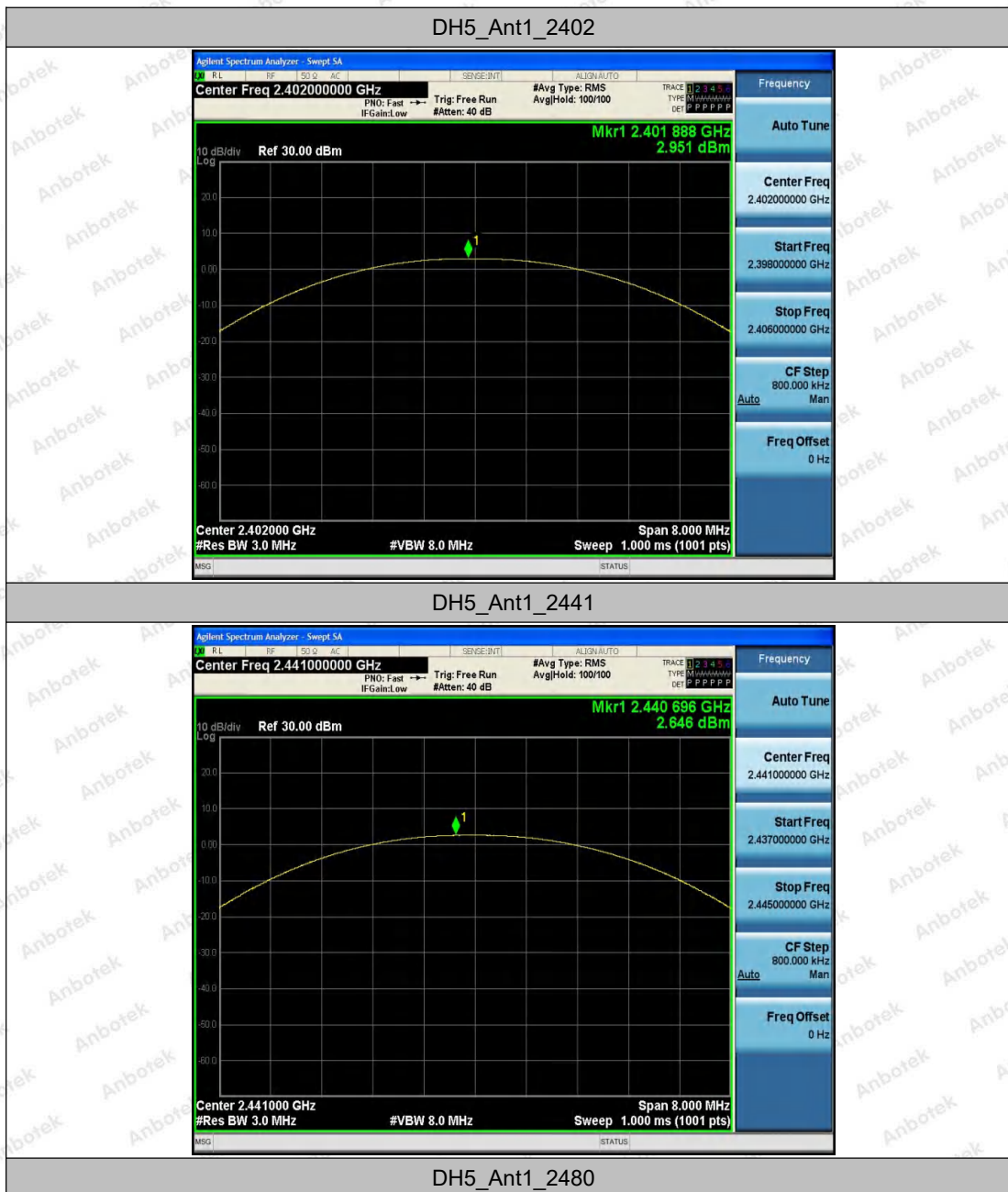
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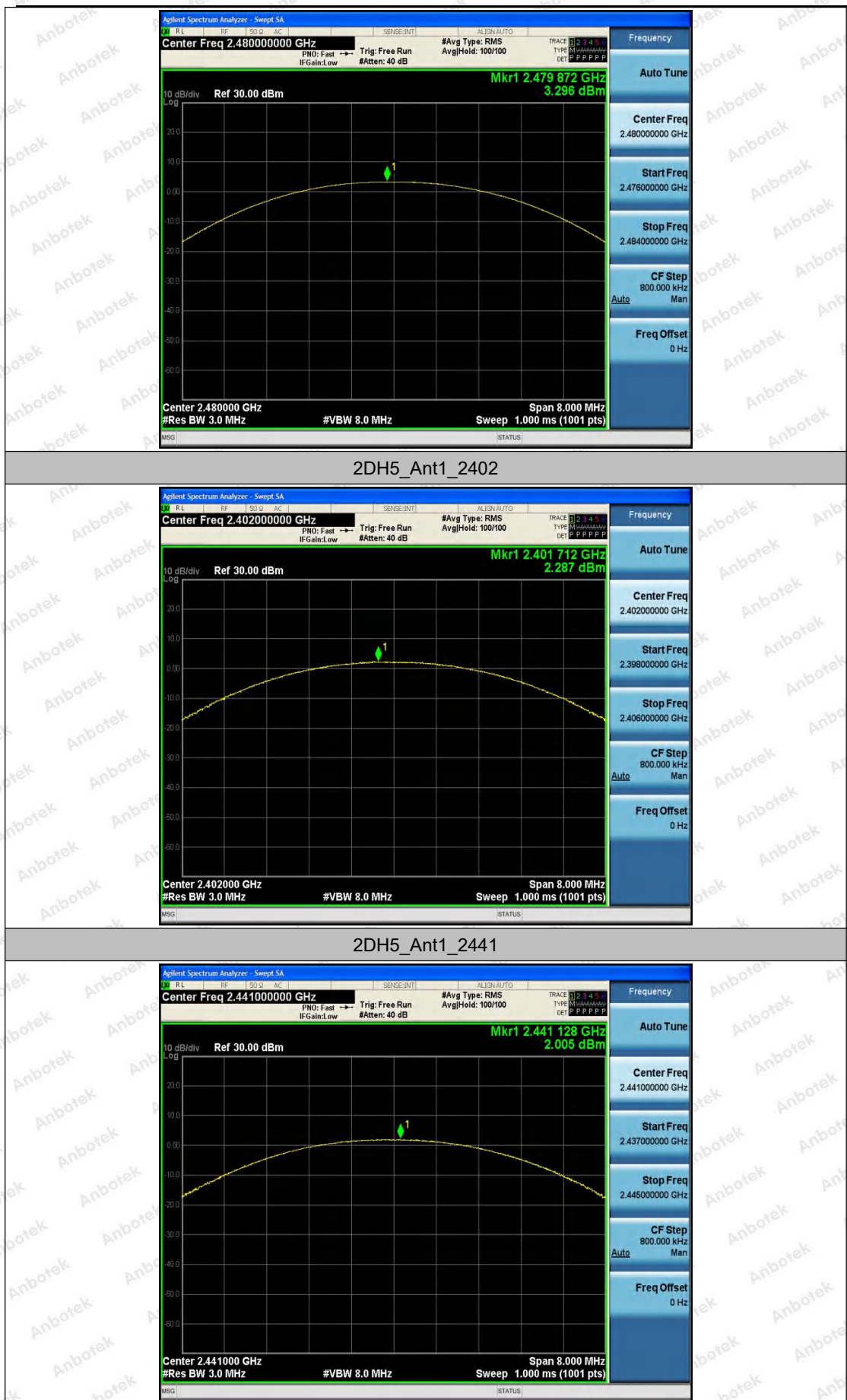
Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	2.95	≤20.97	PASS
		2441	2.65	≤20.97	PASS
		2480	3.3	≤20.97	PASS
2DH5	Ant1	2402	2.29	≤20.97	PASS
		2441	2.01	≤20.97	PASS
		2480	2.9	≤20.97	PASS
3DH5	Ant1	2402	2.67	≤20.97	PASS
		2441	2.11	≤20.97	PASS
		2480	2.95	≤20.97	PASS

Test Graphs





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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	1.112	≥ 0.948	PASS
2DH5	Ant1	Hop	0.988	≥ 0.884	PASS
3DH5	Ant1	Hop	1.034	≥ 0.886	PASS

Test Graphs



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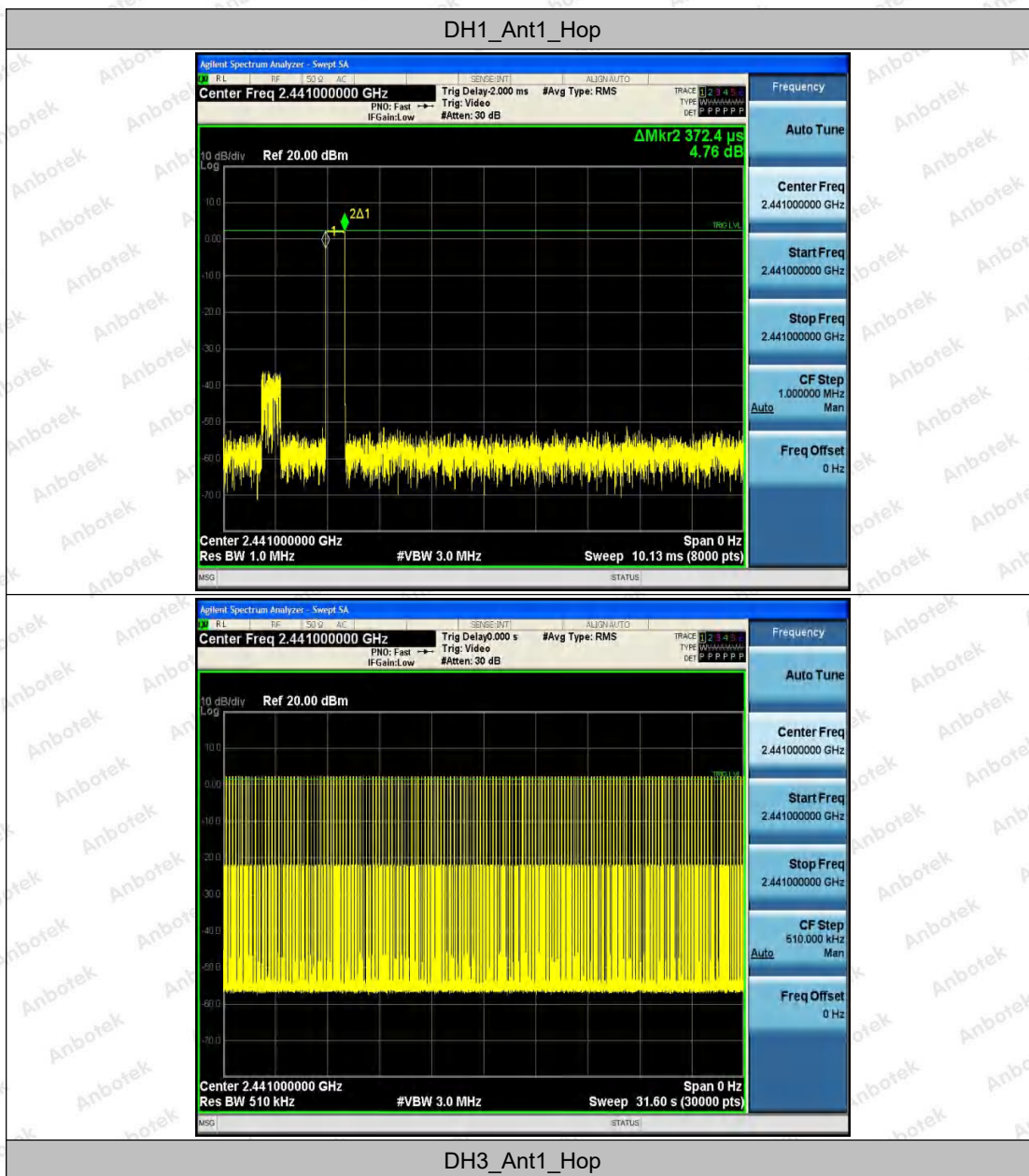
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Appendix E: Time of occupancy

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	157	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.88	107	0.308	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	156	0.255	≤0.4	PASS
2DH5	Ant1	Hop	2.88	119	0.343	≤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	106	0.305	≤0.4	PASS

Test Graphs



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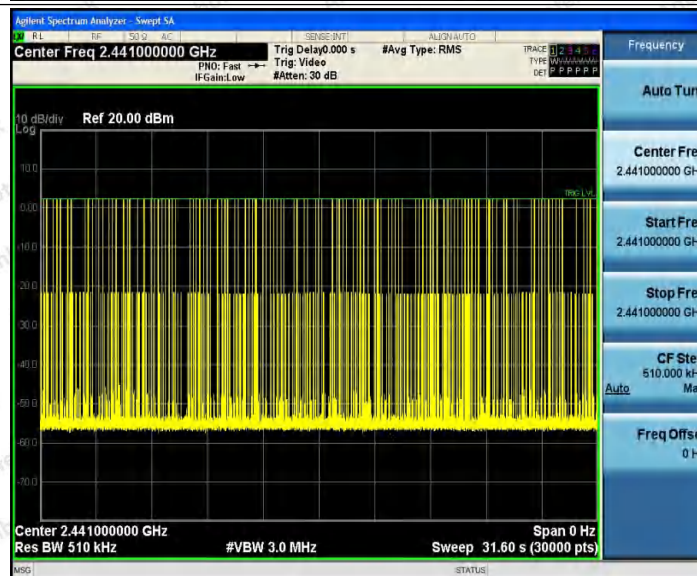
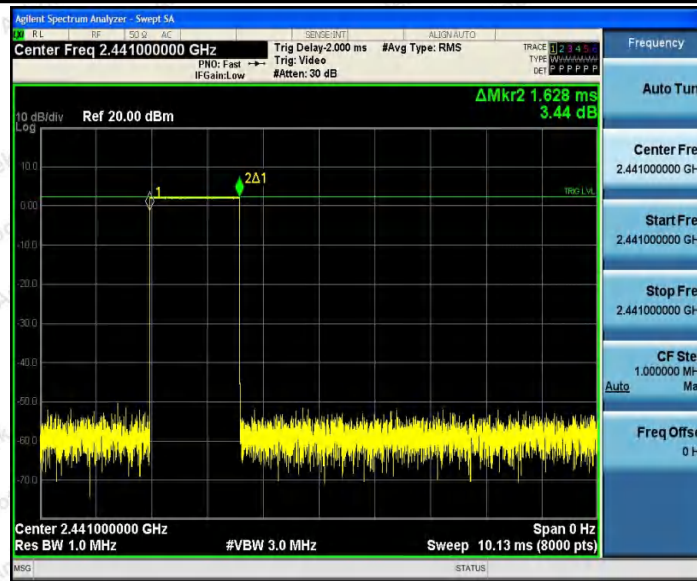
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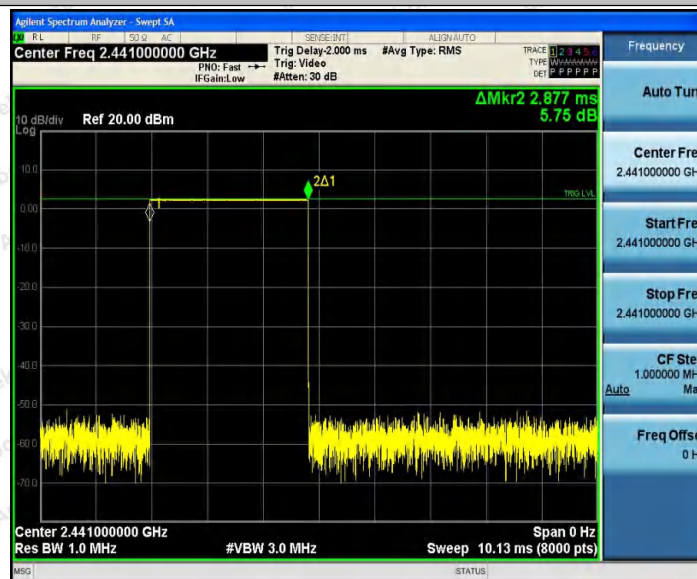
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DH5_Ant1_Hop



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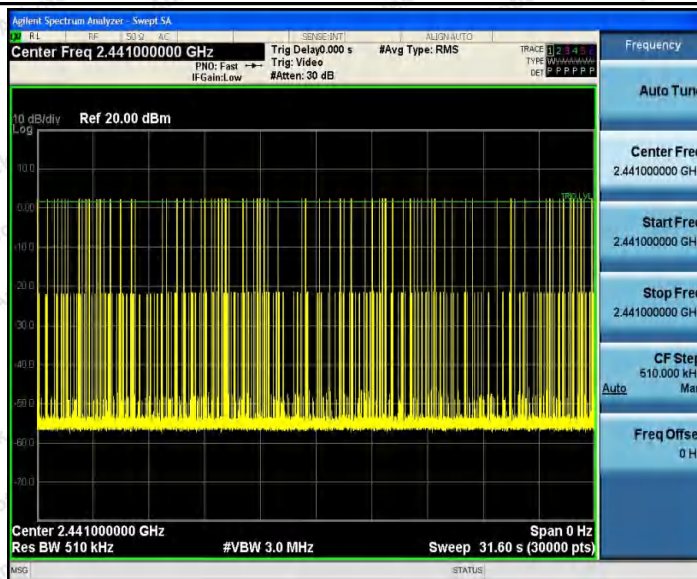
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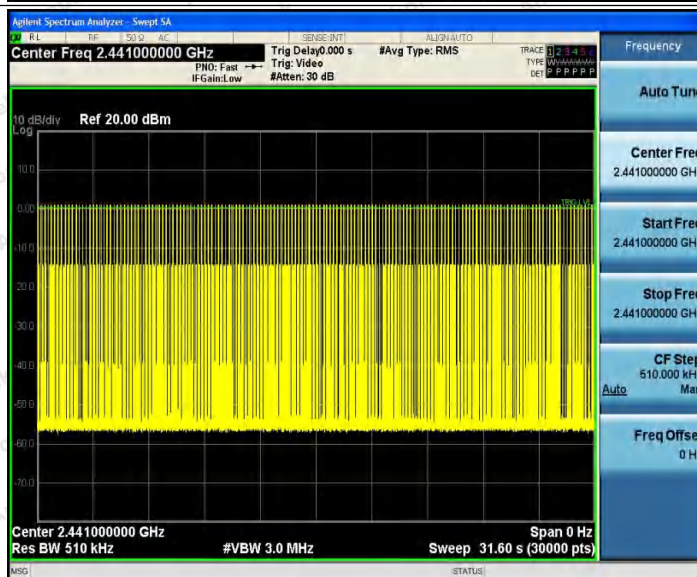
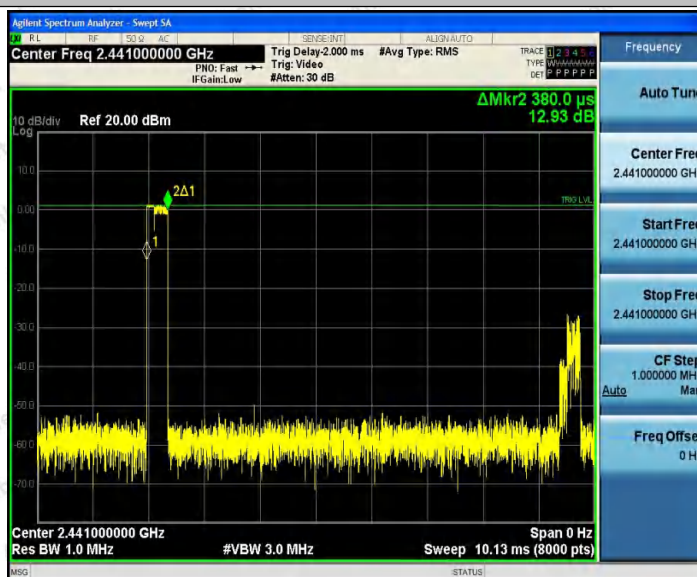
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2DH1_Ant1_Hop



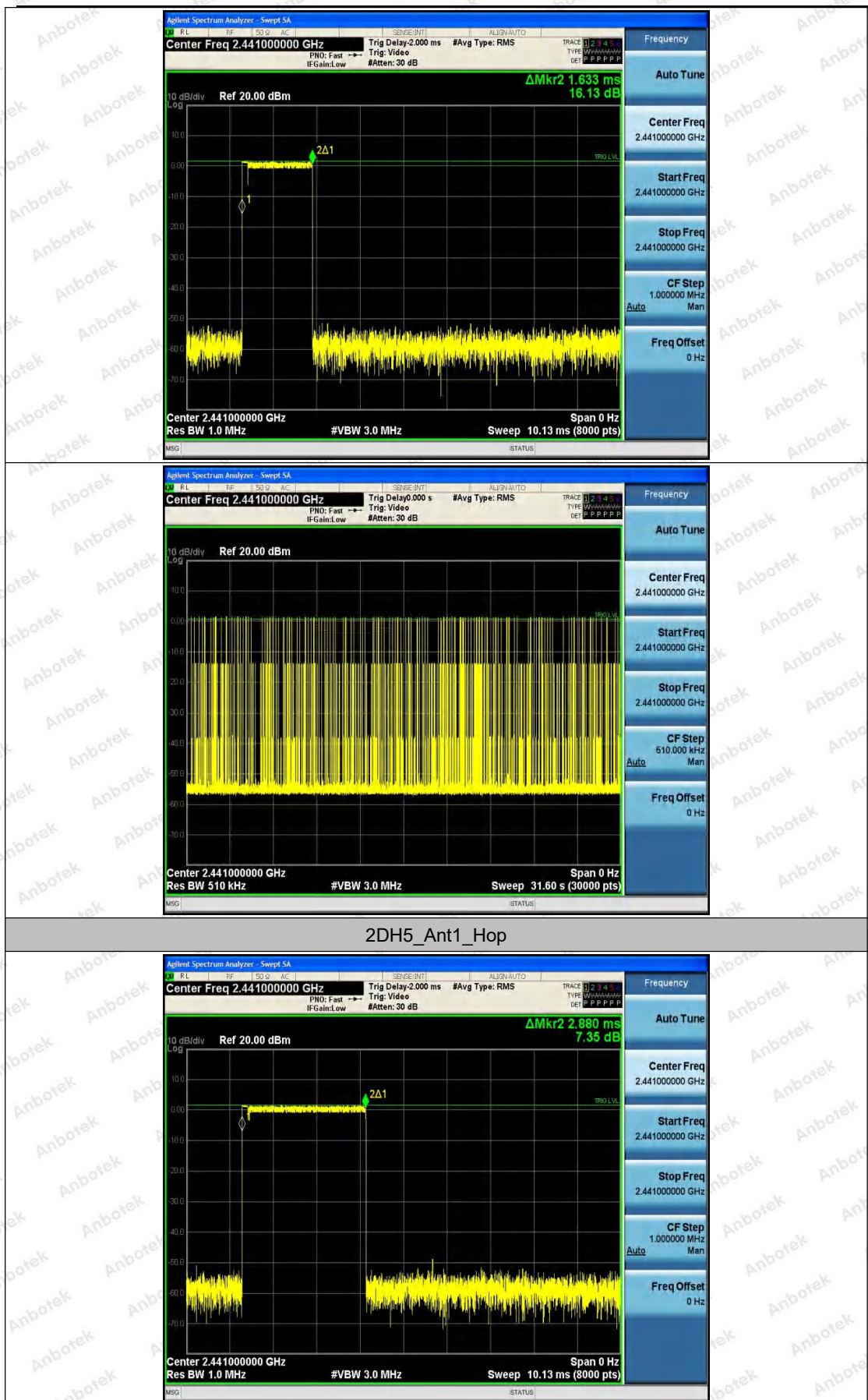
2DH3_Ant1_Hop

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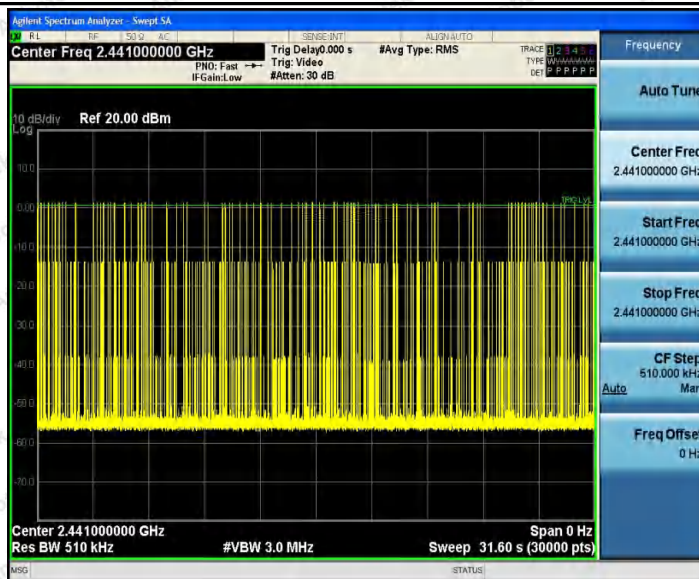
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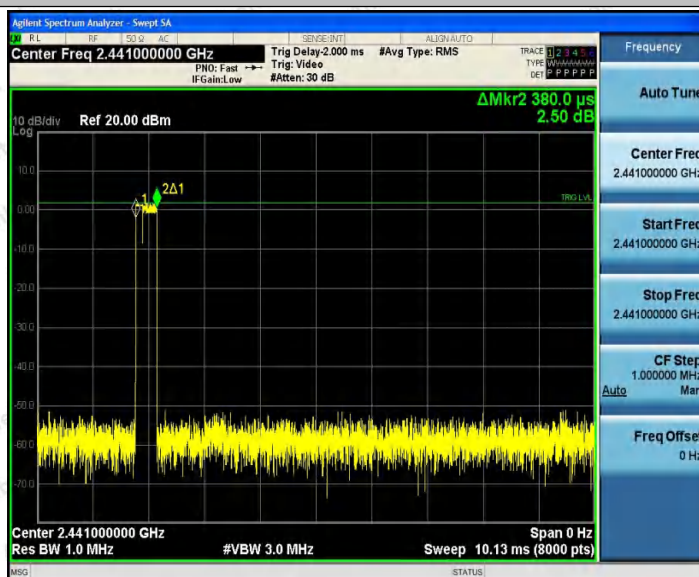
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3DH1_Ant1_Hop



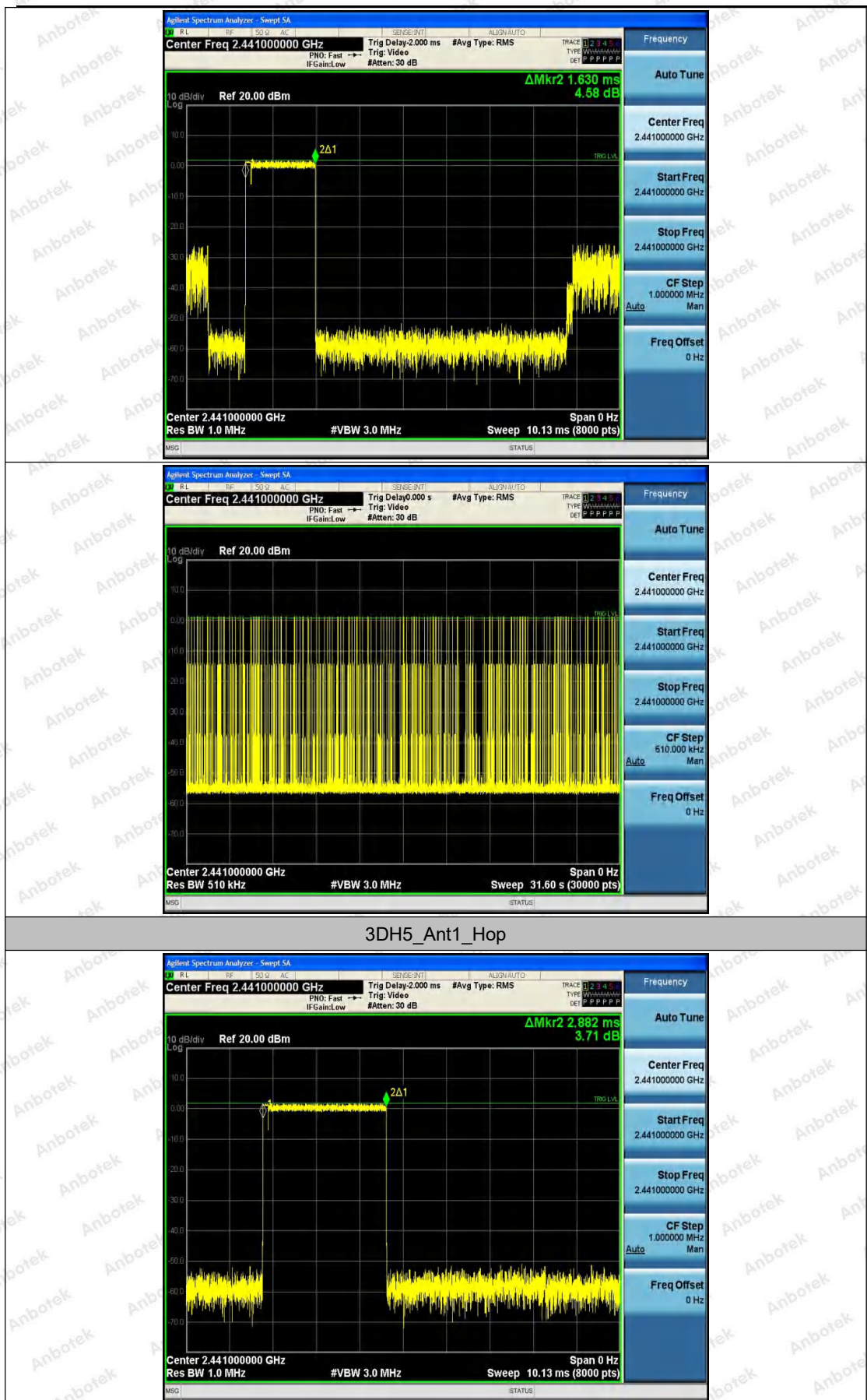
3DH3_Ant1_Hop

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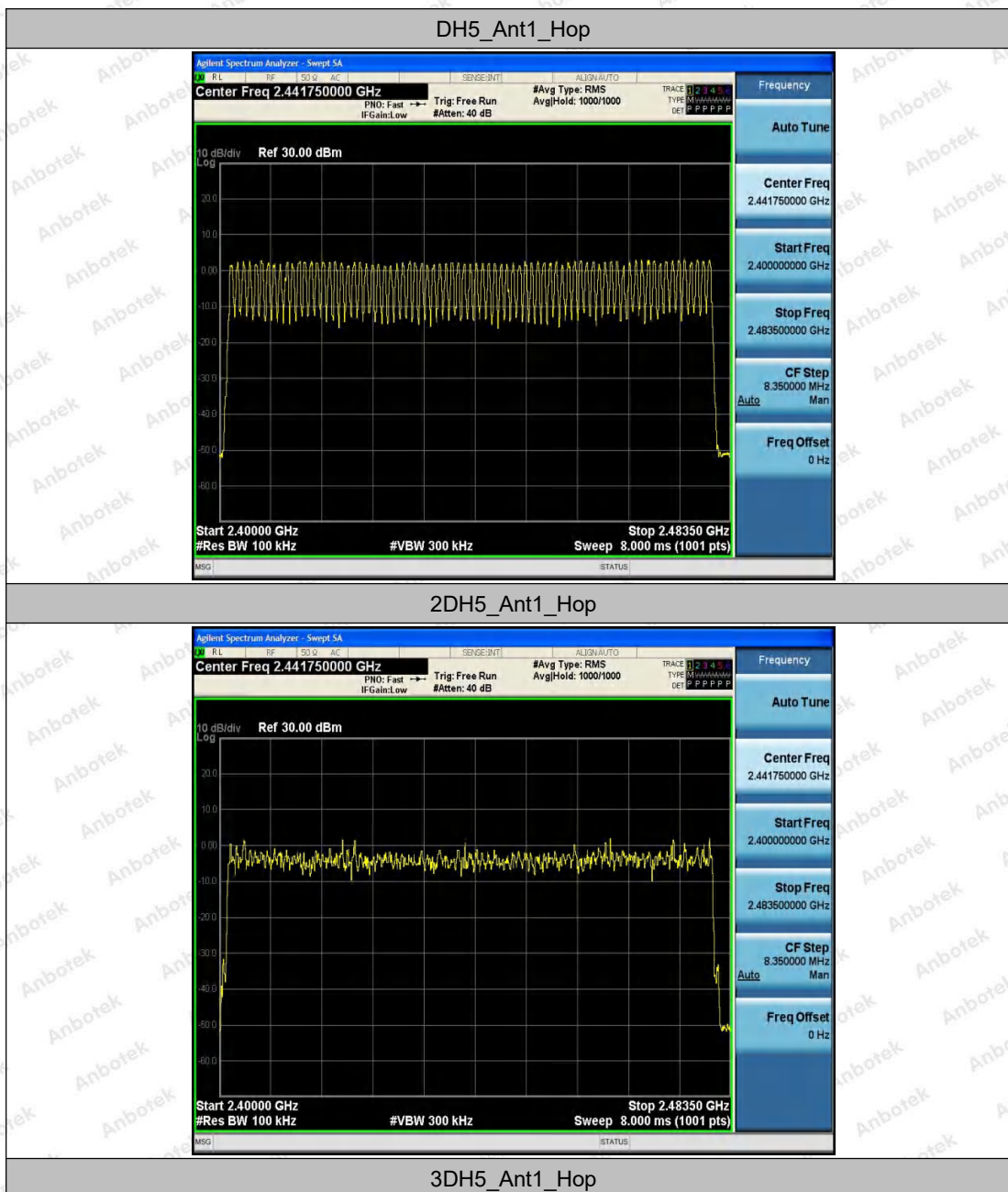
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Appendix F: Number of hopping channels

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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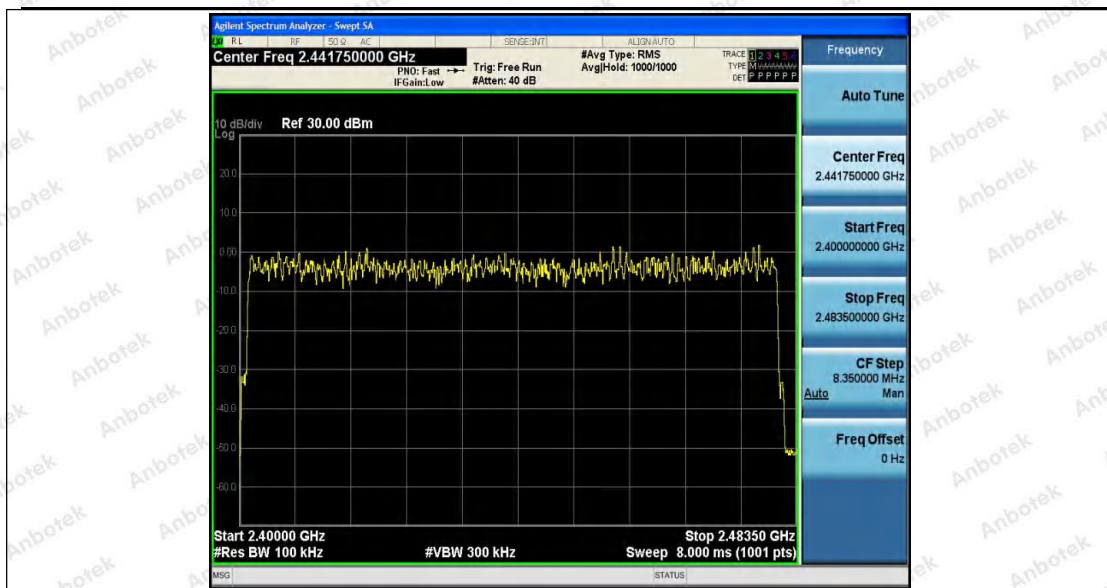
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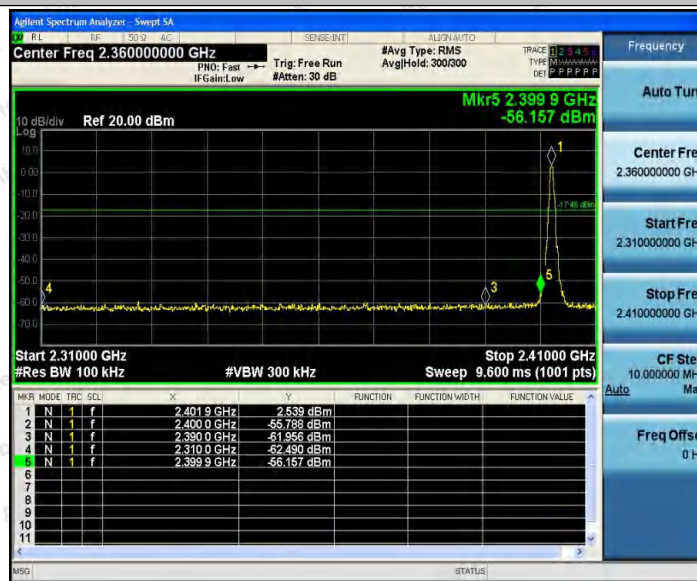
Appendix G: Band edge measurements

Test Result

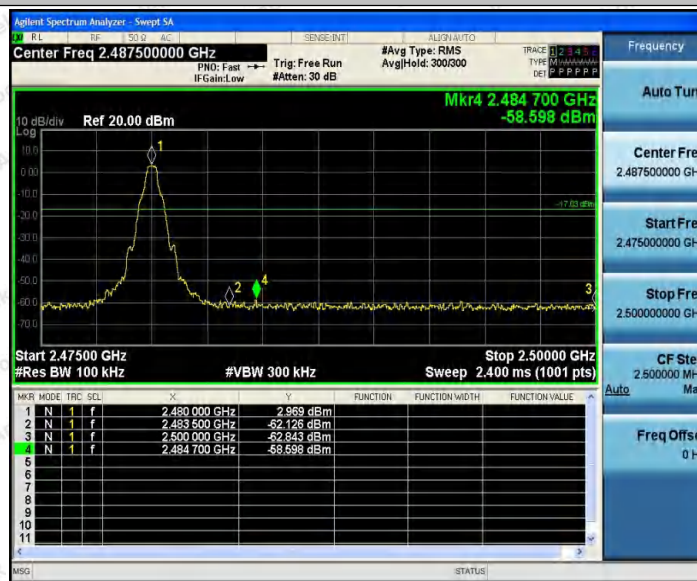
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.54	-56.16	≤-17.46	PASS
		High	2480	2.97	-58.6	≤-17.03	PASS
		Low	Hop	2.83	-59.75	≤-17.17	PASS
		High	Hop	2.66	-63.35	≤-17.34	PASS
2DH5	Ant1	Low	2402	1.13	-54.44	≤-18.87	PASS
		High	2480	2.14	-58.82	≤-17.86	PASS
		Low	Hop	-2.00	-59.46	≤-22	PASS
		High	Hop	-1.42	-62.72	≤-21.42	PASS
3DH5	Ant1	Low	2402	1.10	-54.64	≤-18.9	PASS
		High	2480	2.00	-59.43	≤-18	PASS
		Low	Hop	-0.05	-58.92	≤-20.05	PASS
		High	Hop	-0.19	-62.11	≤-20.19	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop

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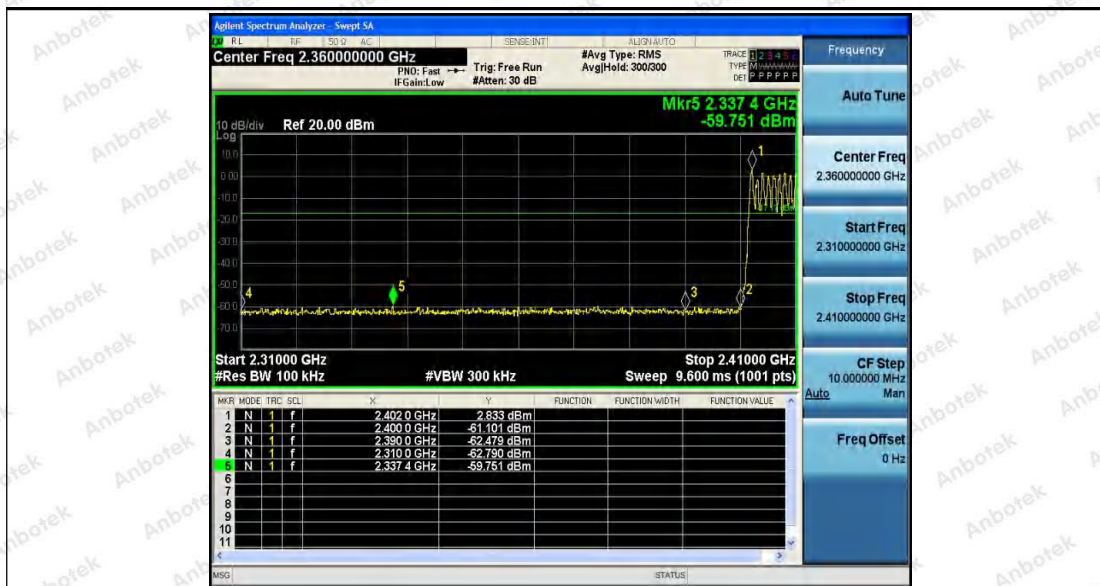
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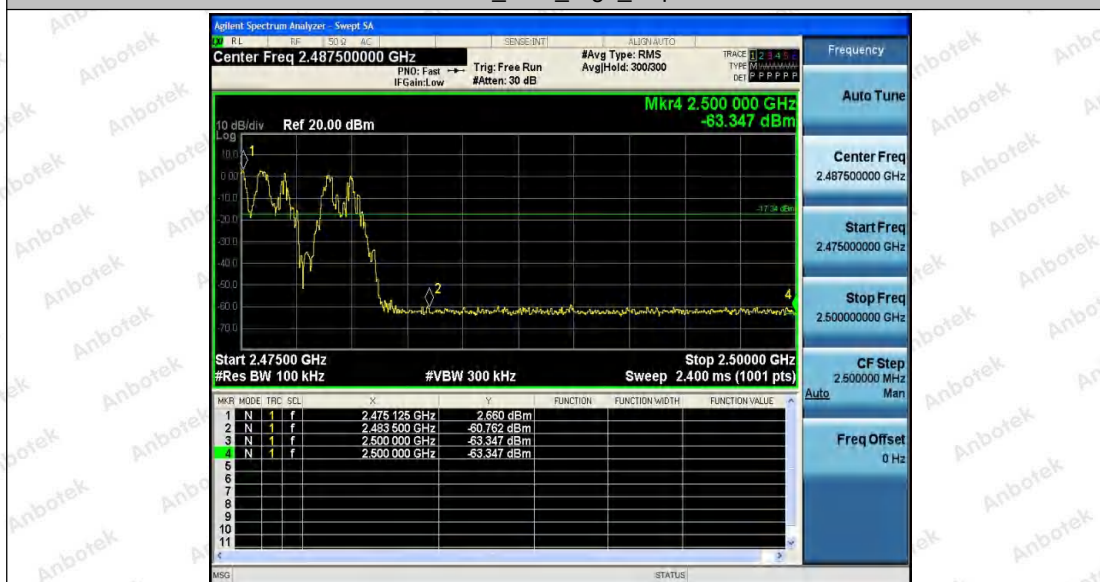
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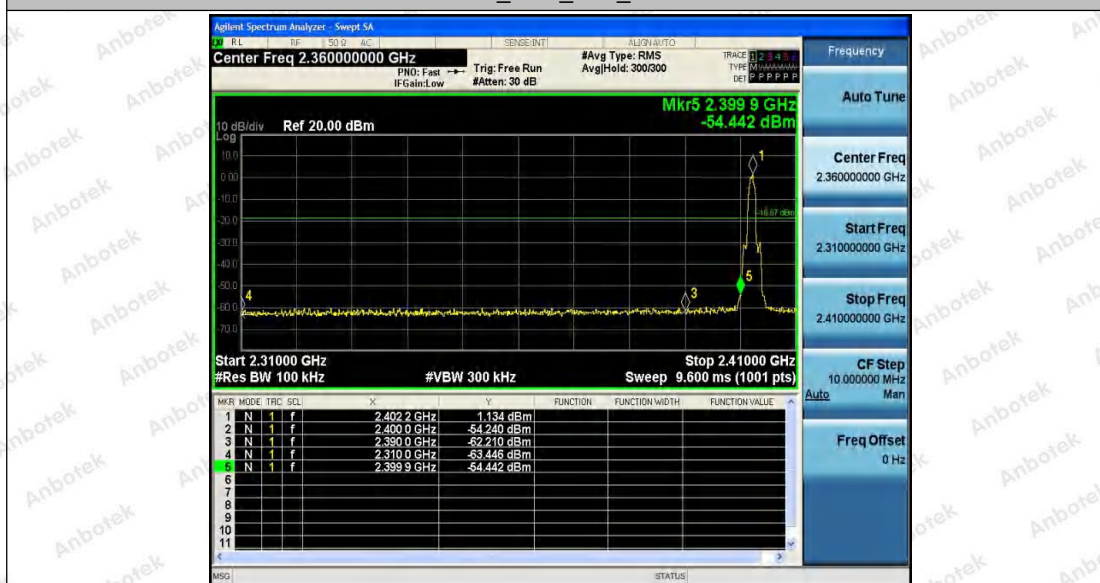
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



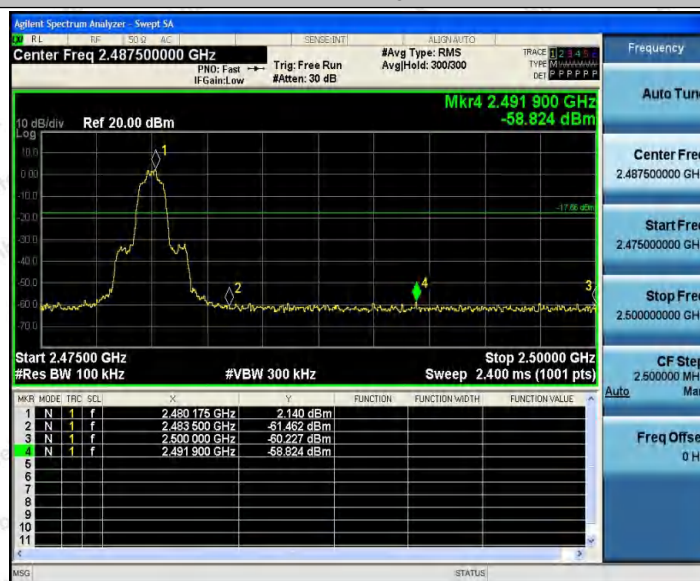
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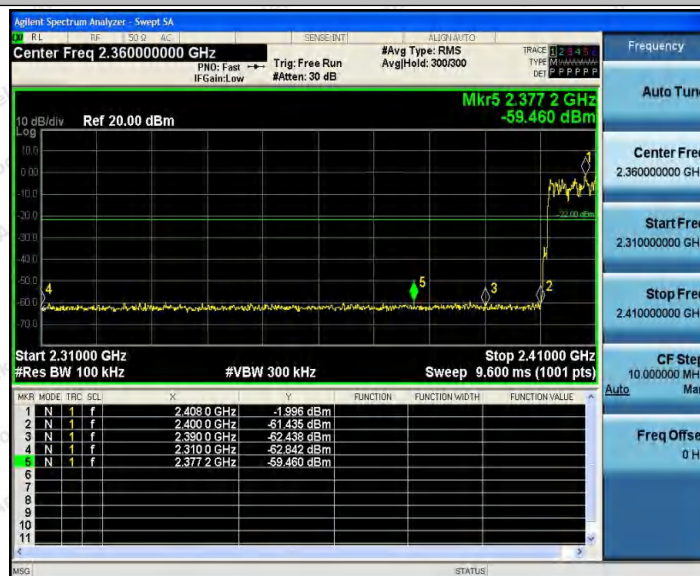
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



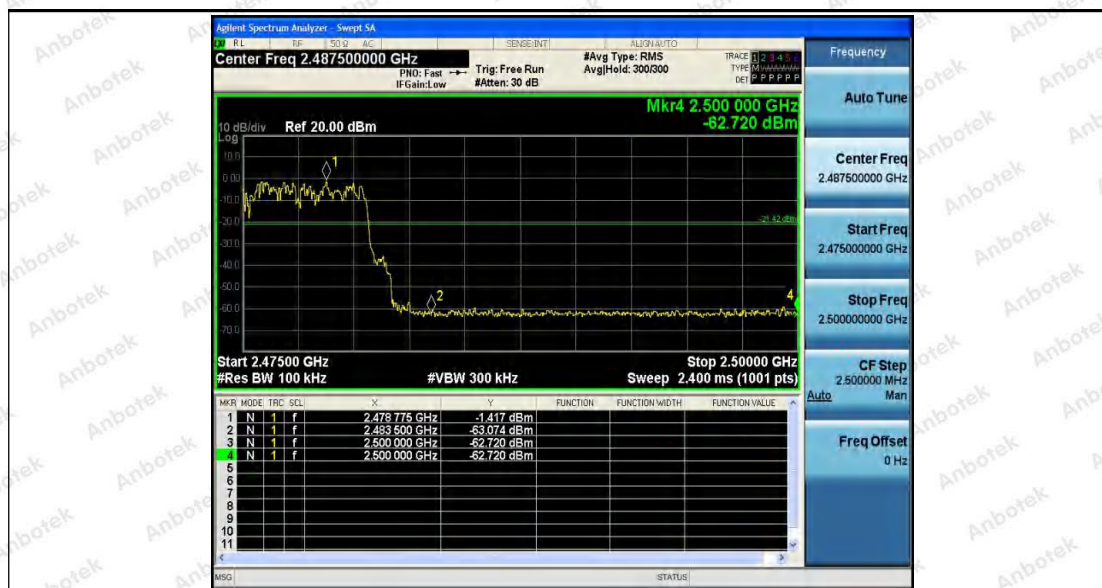
2DH5_Ant1_High_Hop

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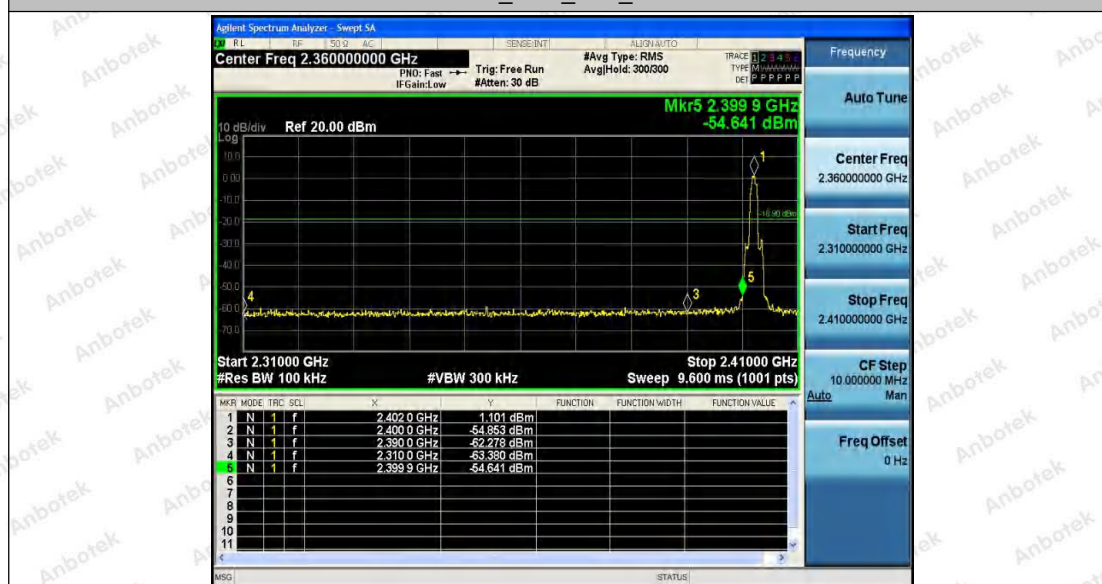
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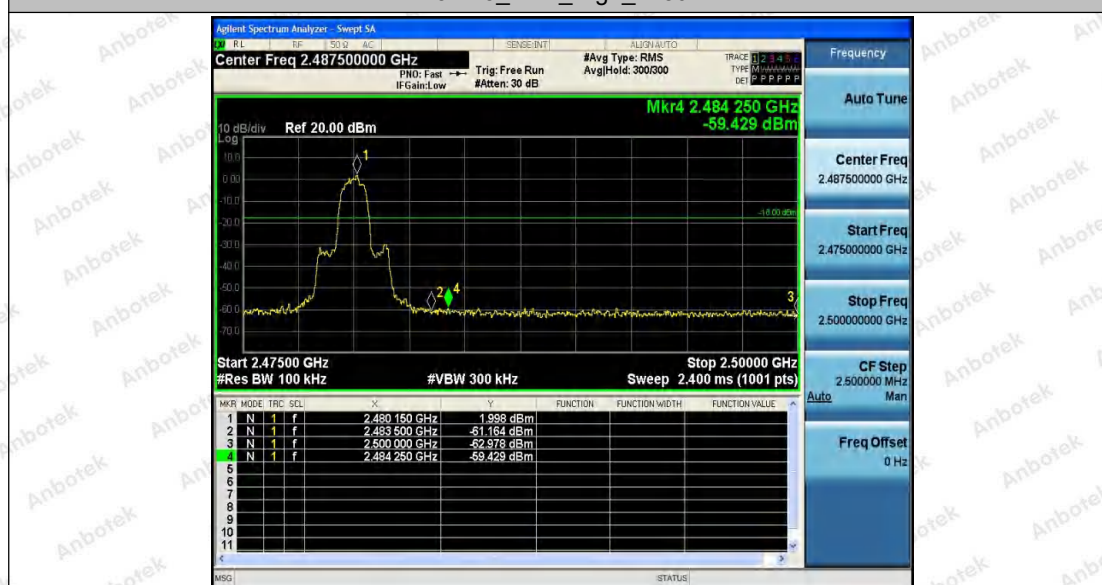
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



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Appendix H: Conducted Spurious Emission

Test Result

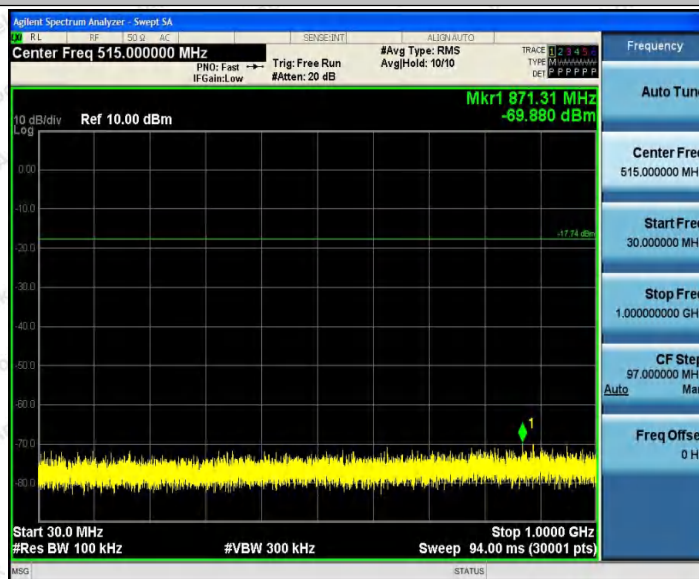
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.26	2.26	---	PASS
			30~1000	2.26	-69.88	≤-17.74	PASS
			1000~26500	2.26	-54.52	≤-17.74	PASS
		2441	Reference	1.70	1.70	---	PASS
			30~1000	1.70	-70.14	≤-18.3	PASS
			1000~26500	1.70	-56.32	≤-18.3	PASS
		2480	Reference	2.85	2.85	---	PASS
			30~1000	2.85	-69.52	≤-17.15	PASS
			1000~26500	2.85	-55.62	≤-17.15	PASS
2DH5	Ant1	2402	Reference	1.29	1.29	---	PASS
			30~1000	1.29	-70.08	≤-18.71	PASS
			1000~26500	1.29	-54.95	≤-18.71	PASS
		2441	Reference	0.36	0.36	---	PASS
			30~1000	0.36	-70.6	≤-19.64	PASS
			1000~26500	0.36	-54.78	≤-19.64	PASS
		2480	Reference	1.23	1.23	---	PASS
			30~1000	1.23	-68.78	≤-18.77	PASS
			1000~26500	1.23	-55.59	≤-18.77	PASS
3DH5	Ant1	2402	Reference	1.47	1.47	---	PASS
			30~1000	1.47	-70.65	≤-18.53	PASS
			1000~26500	1.47	-54.49	≤-18.53	PASS
		2441	Reference	1.09	1.09	---	PASS
			30~1000	1.09	-69.98	≤-18.92	PASS
			1000~26500	1.09	-55.66	≤-18.92	PASS
		2480	Reference	1.32	1.32	---	PASS
			30~1000	1.32	-70.65	≤-18.68	PASS
			1000~26500	1.32	-55.27	≤-18.68	PASS

Test Graphs

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



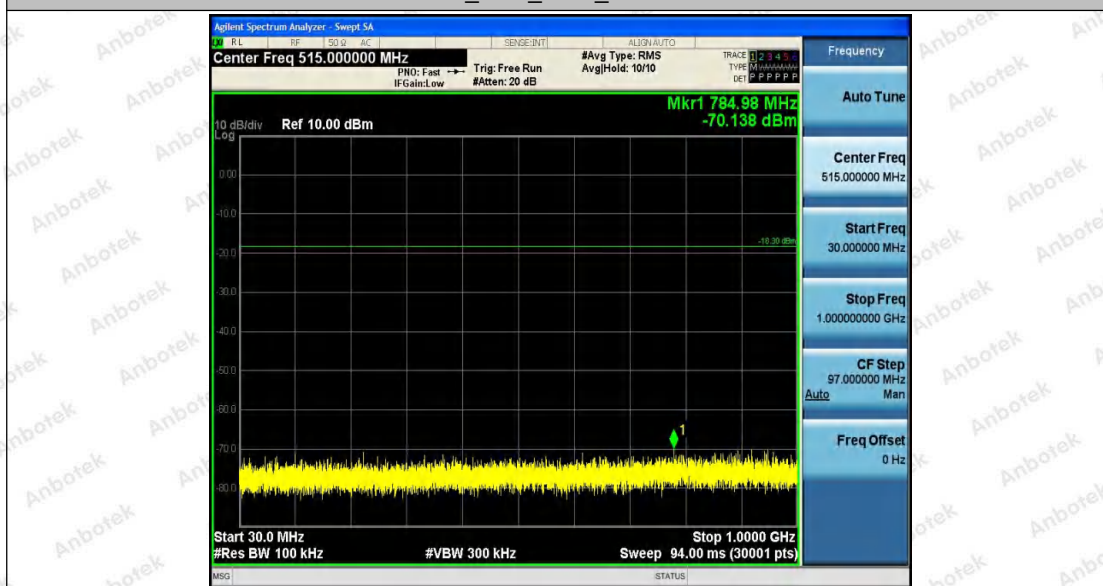
DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



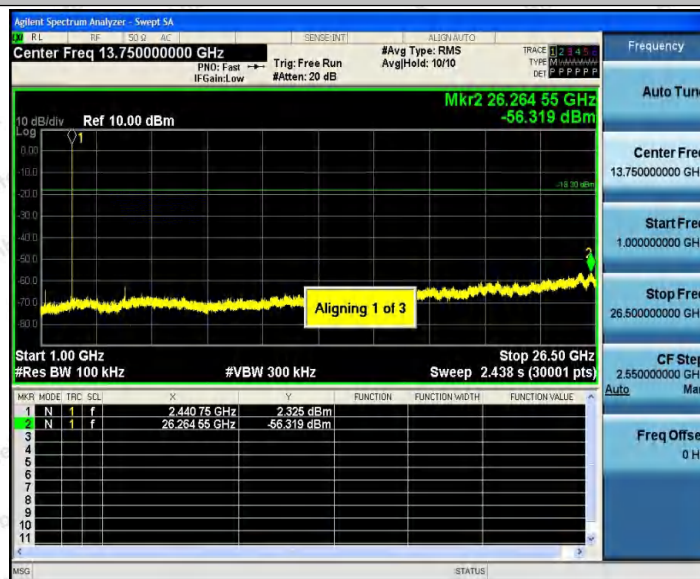
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



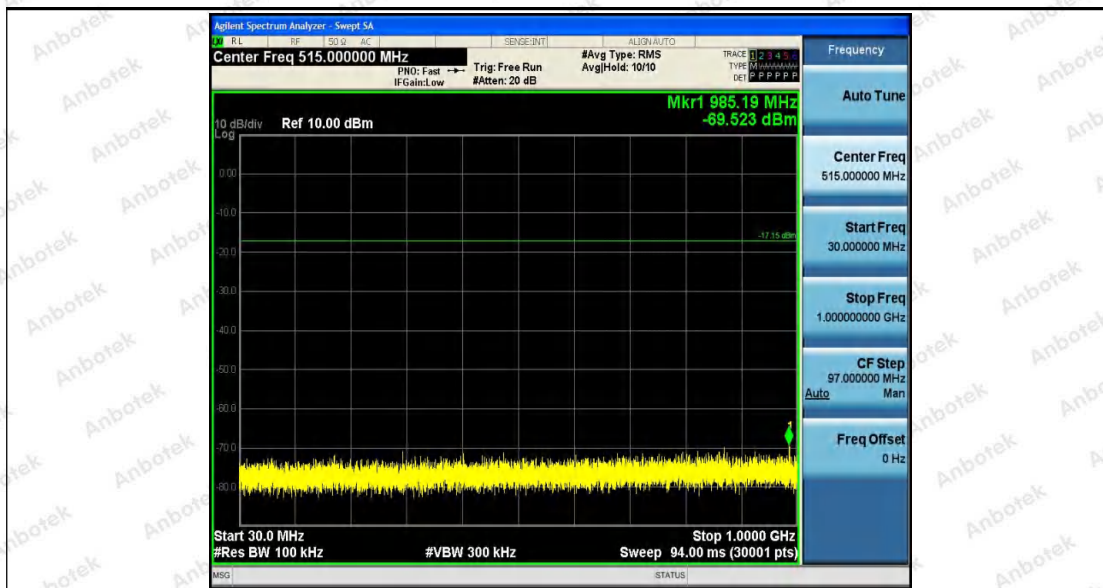
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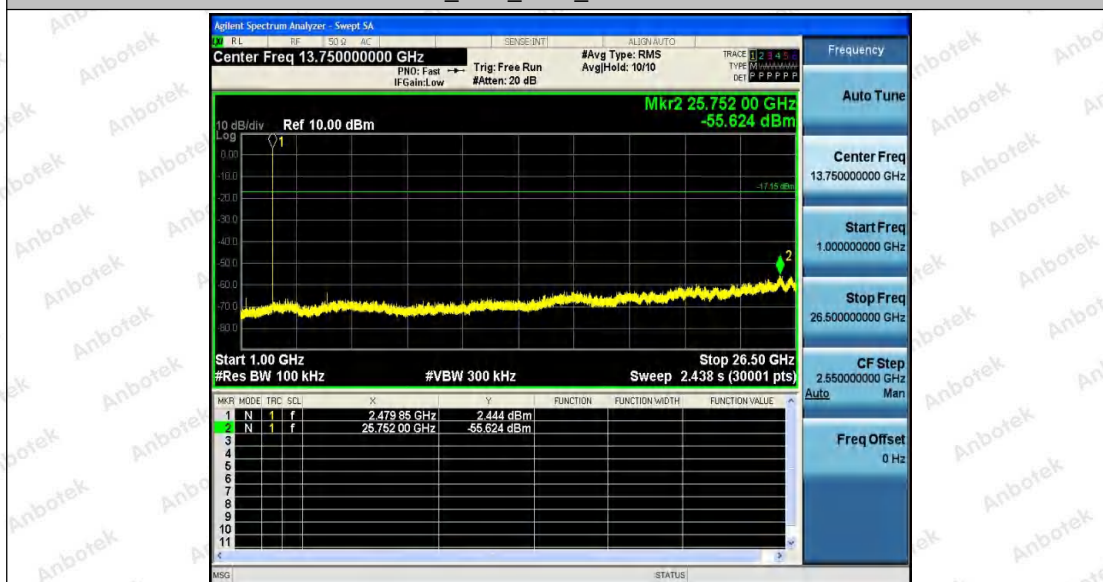
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DH5_Ant1_2480_1000~26500



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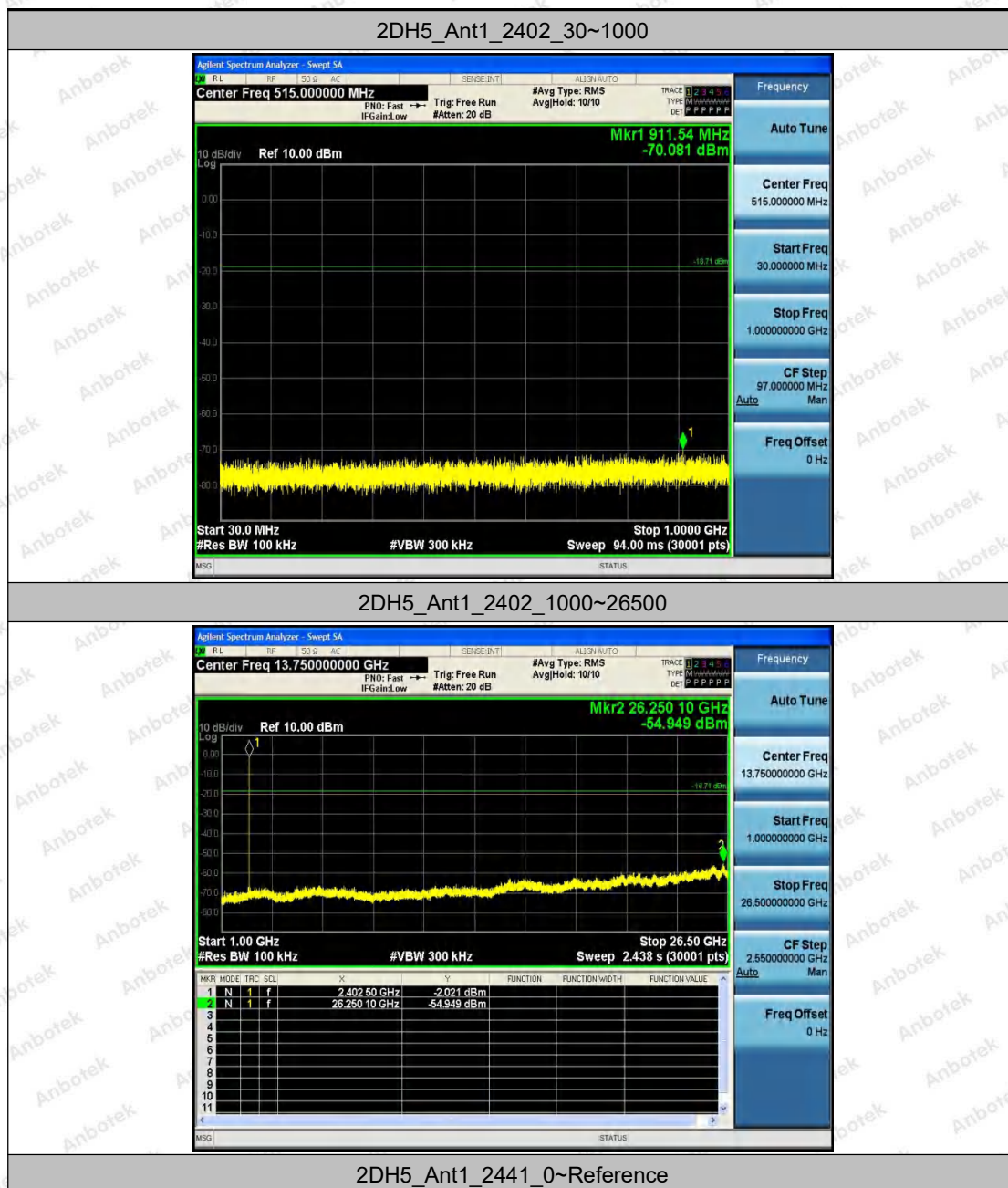


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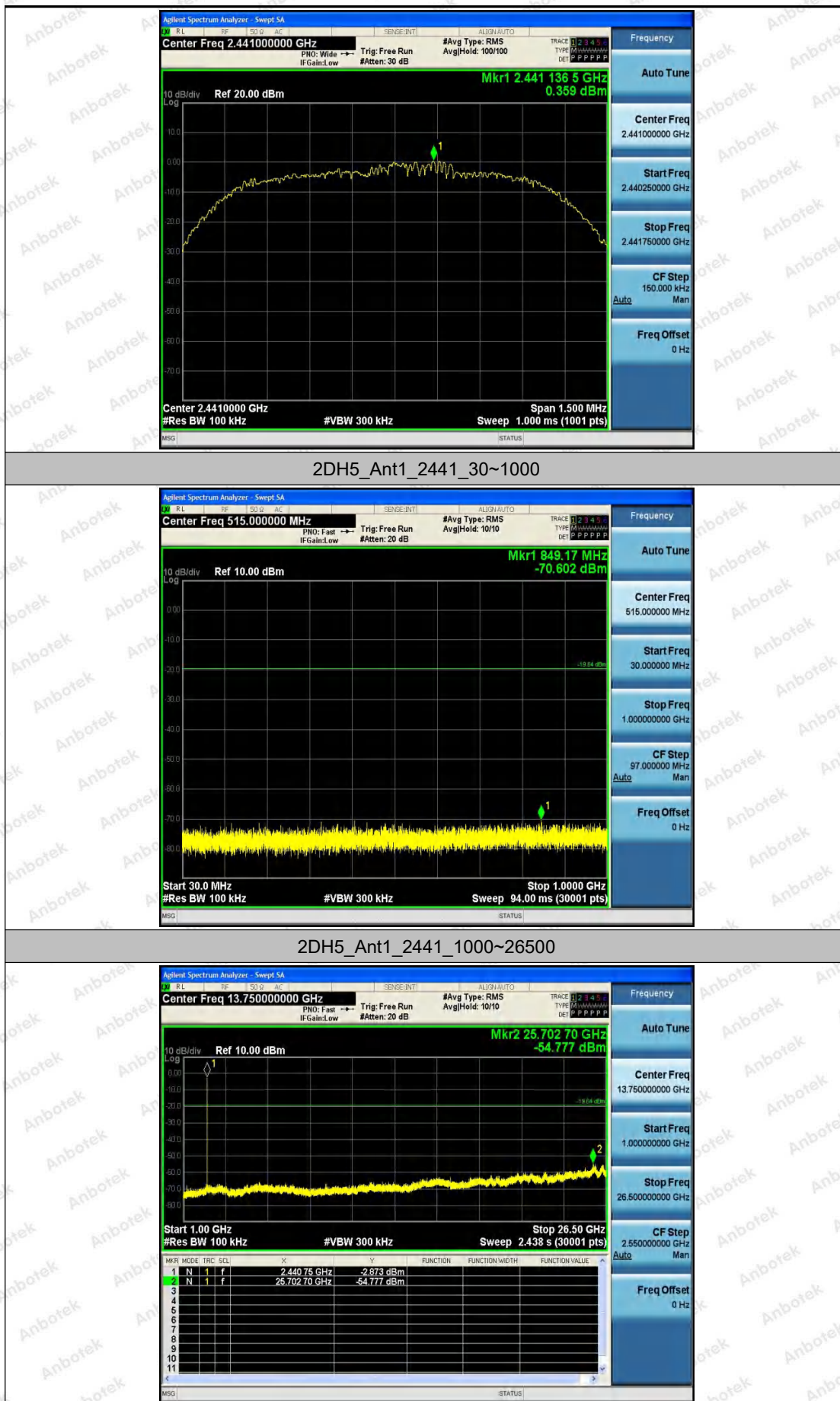


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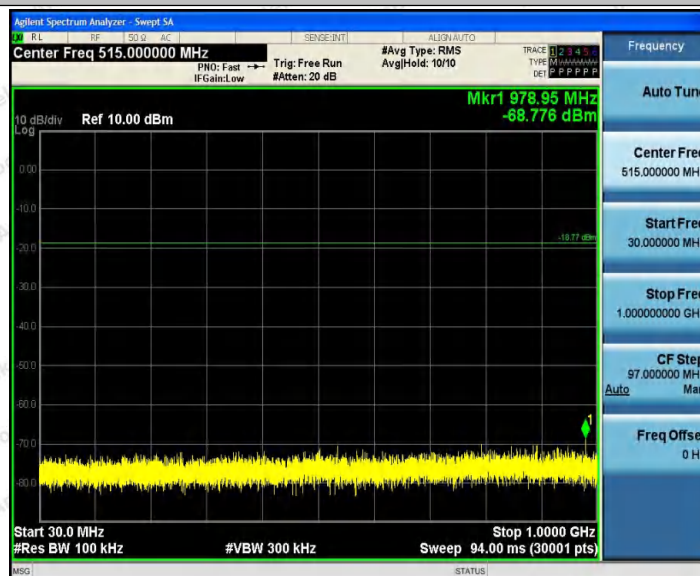
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

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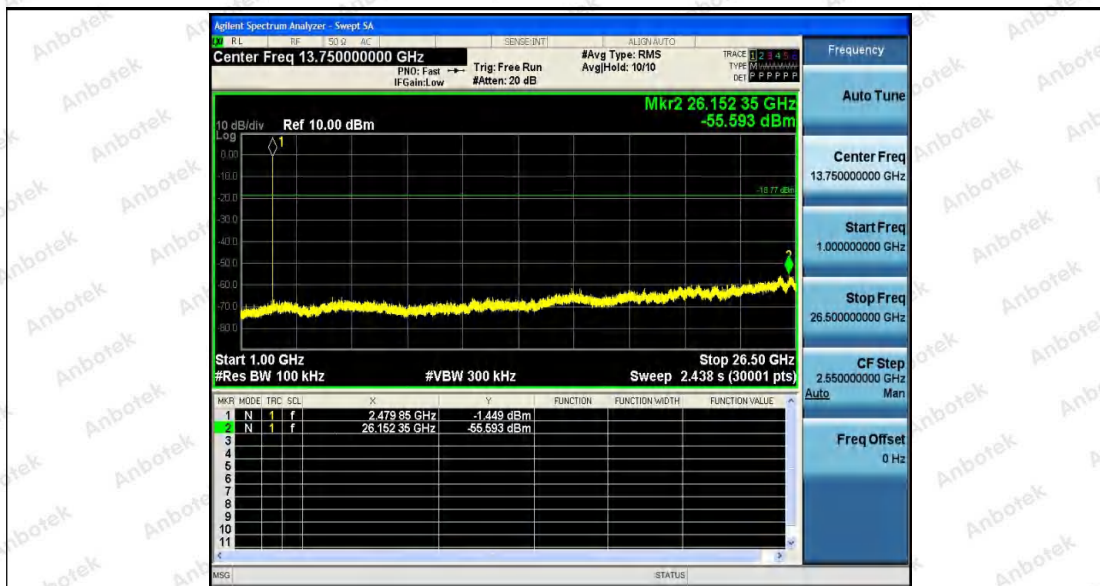
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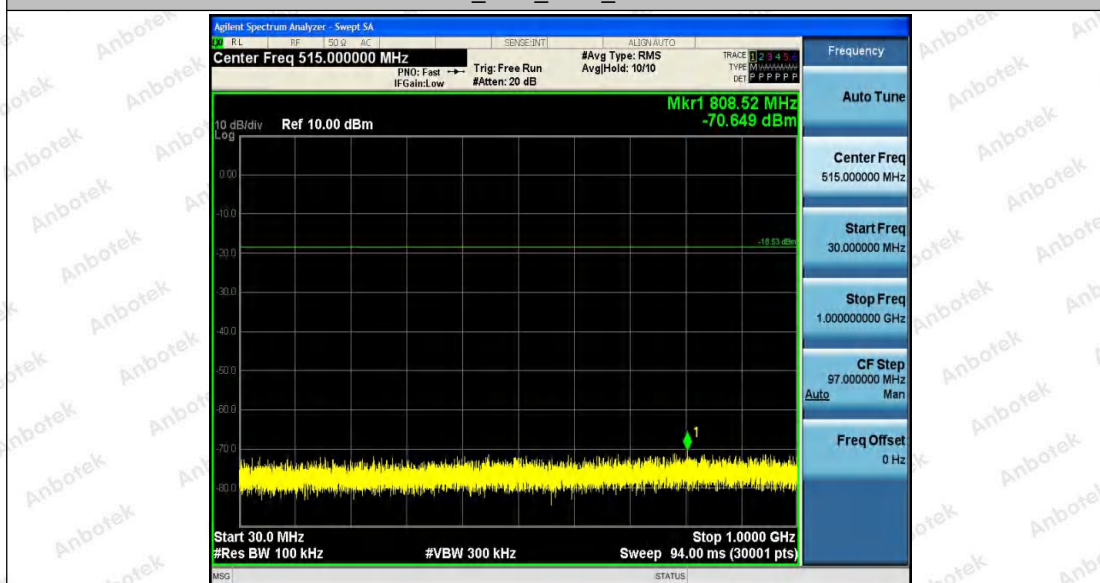
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



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3DH5_Ant1_2402_1000~26500



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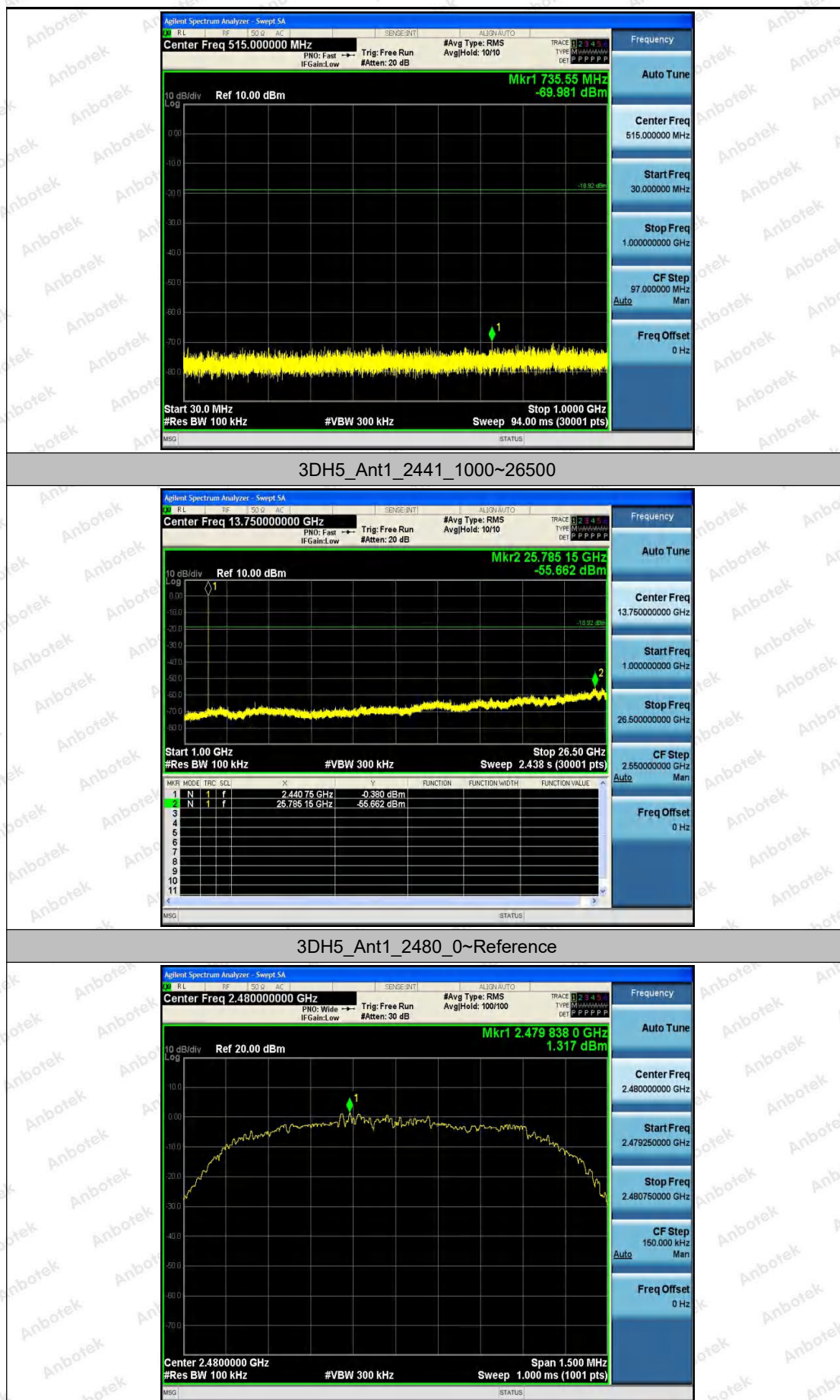
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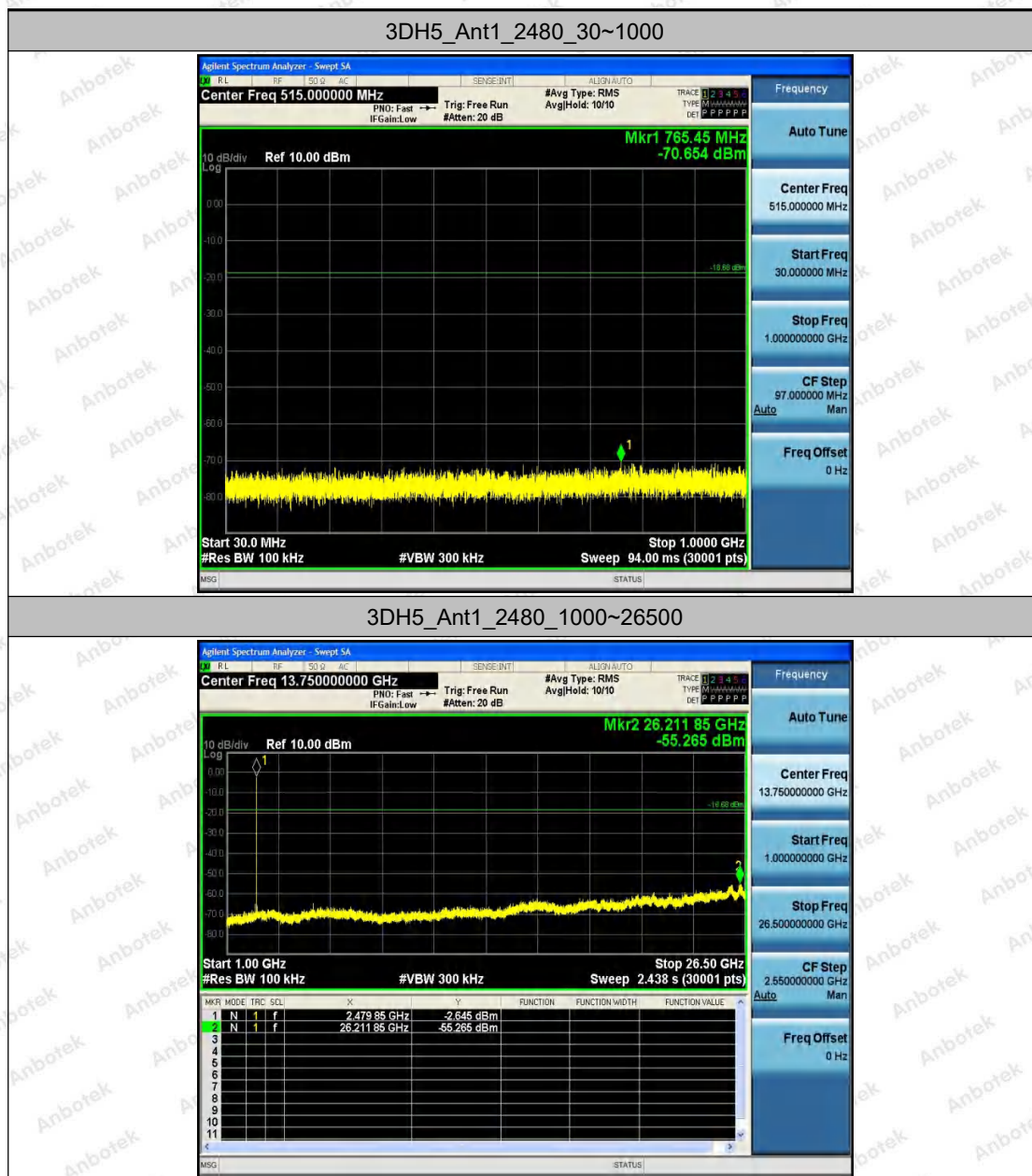


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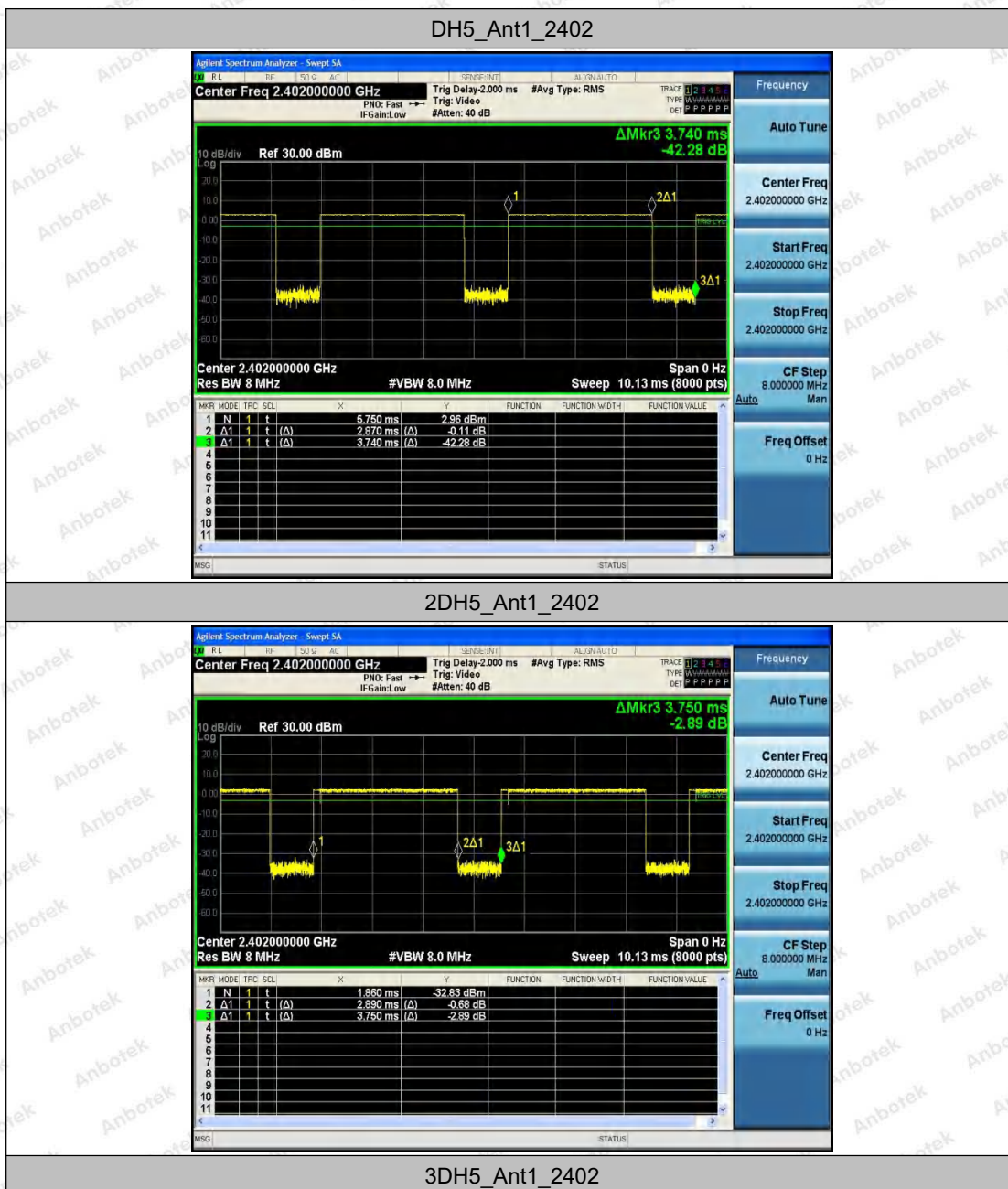
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Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.74	0.767 4	76.74	1.15	---	PASS
2DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS

Test Graphs

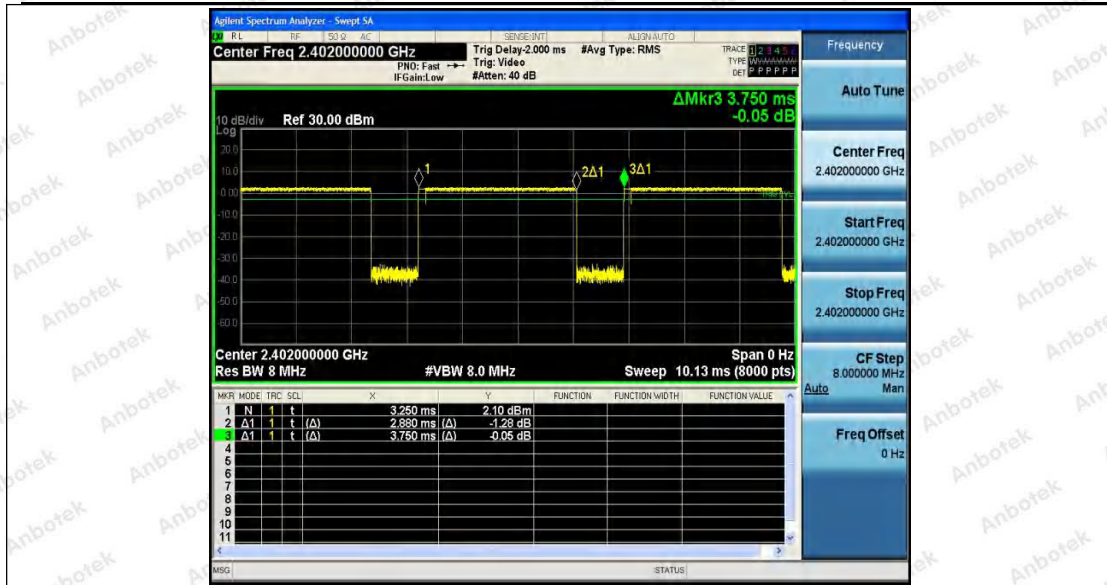


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