

Appendix Test Data

Report No.:	18220WC20150001	Test Sample No.:	1-2-2
Start Test Date:	2022.7.6	Finish Test Date:	2022.7.18
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

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.942	2401.535	2402.477	---	PASS
		2441	0.936	2440.535	2441.471	---	PASS
		2480	0.945	2479.532	2480.477	---	PASS
2DH5	Ant1	2402	1.323	2401.334	2402.657	---	PASS
		2441	1.269	2440.364	2441.633	---	PASS
		2480	1.326	2479.334	2480.660	---	PASS
3DH5	Ant1	2402	1.272	2401.349	2402.621	---	PASS
		2441	1.272	2440.349	2441.621	---	PASS
		2480	1.272	2479.349	2480.621	---	PASS

Test Graphs

DH5_Ant1_2402



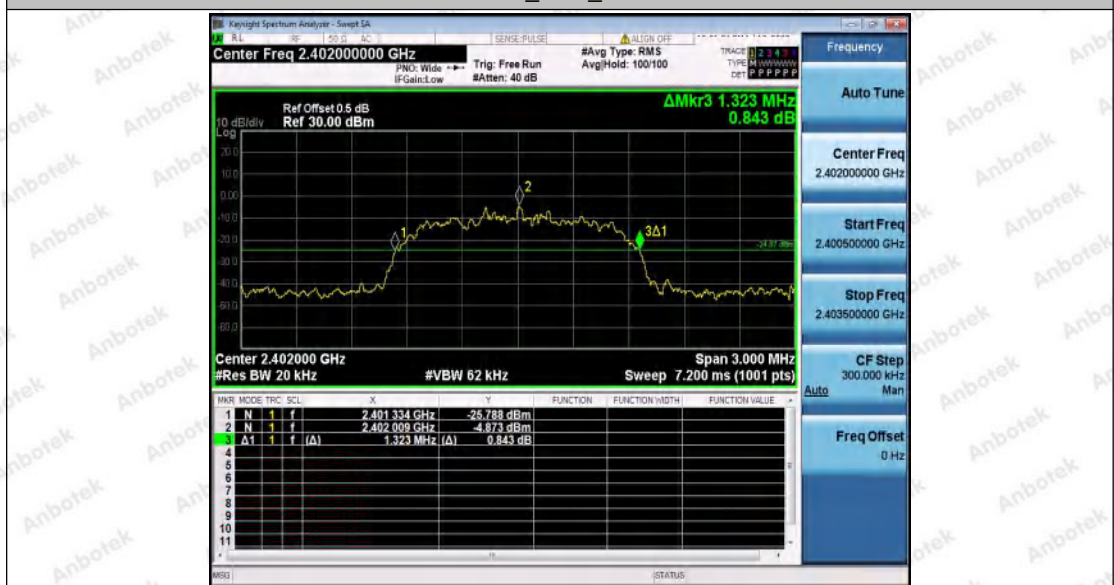
DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441

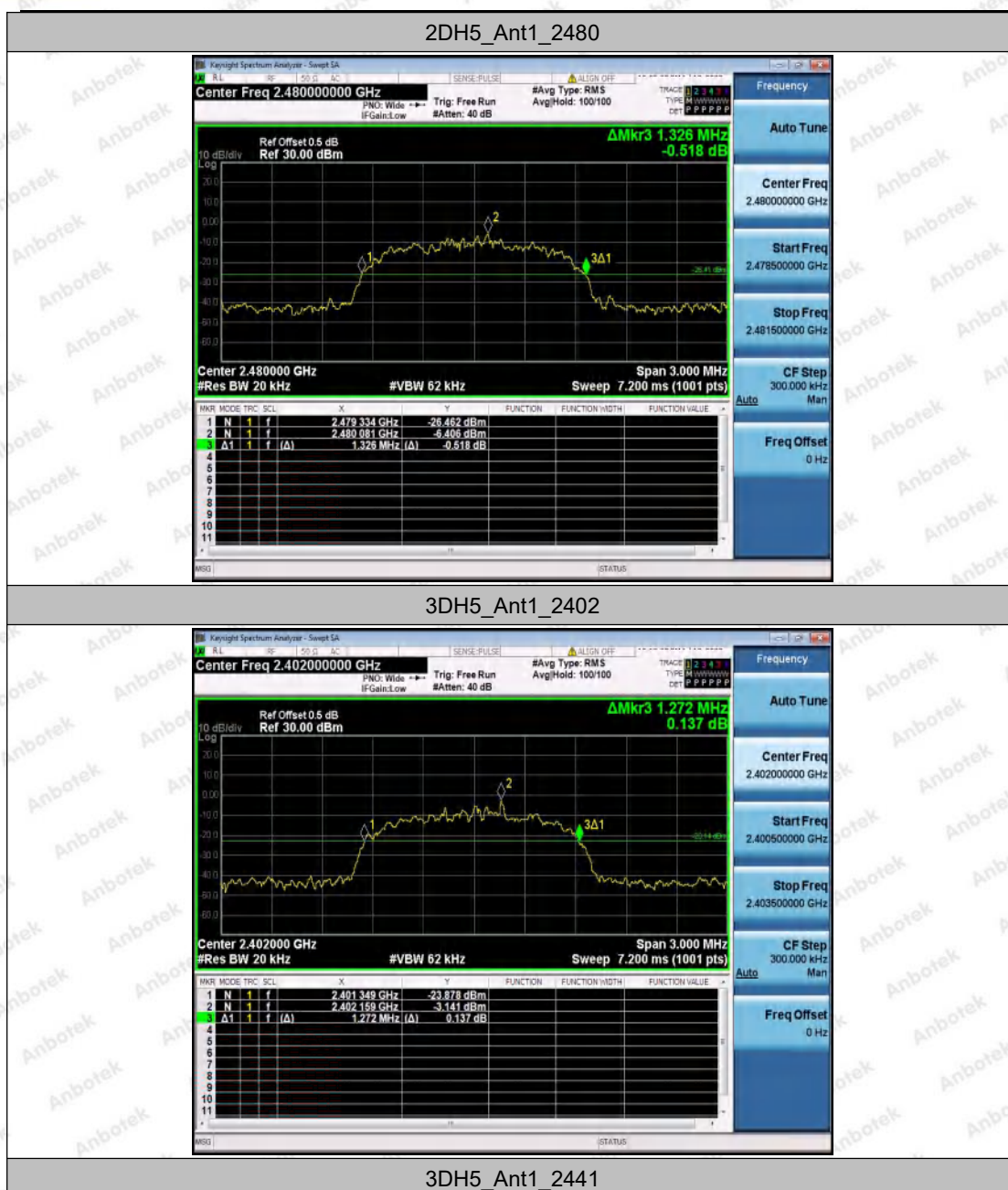


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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88717	2401.55 7	2402.444	---	PASS
		2441	0.89071	2440.55 3	2441.444	---	PASS
		2480	0.90047	2479.54 8	2480.448	---	PASS
2DH5	Ant1	2402	1.1930	2401.40 0	2402.593	---	PASS
		2441	1.1918	2440.40 2	2441.593	---	PASS
		2480	1.1929	2479.40 2	2480.595	---	PASS
3DH5	Ant1	2402	1.2031	2401.39 1	2402.594	---	PASS
		2441	1.2097	2440.38 4	2441.593	---	PASS
		2480	1.2081	2479.38 5	2480.593	---	PASS

Test Graphs

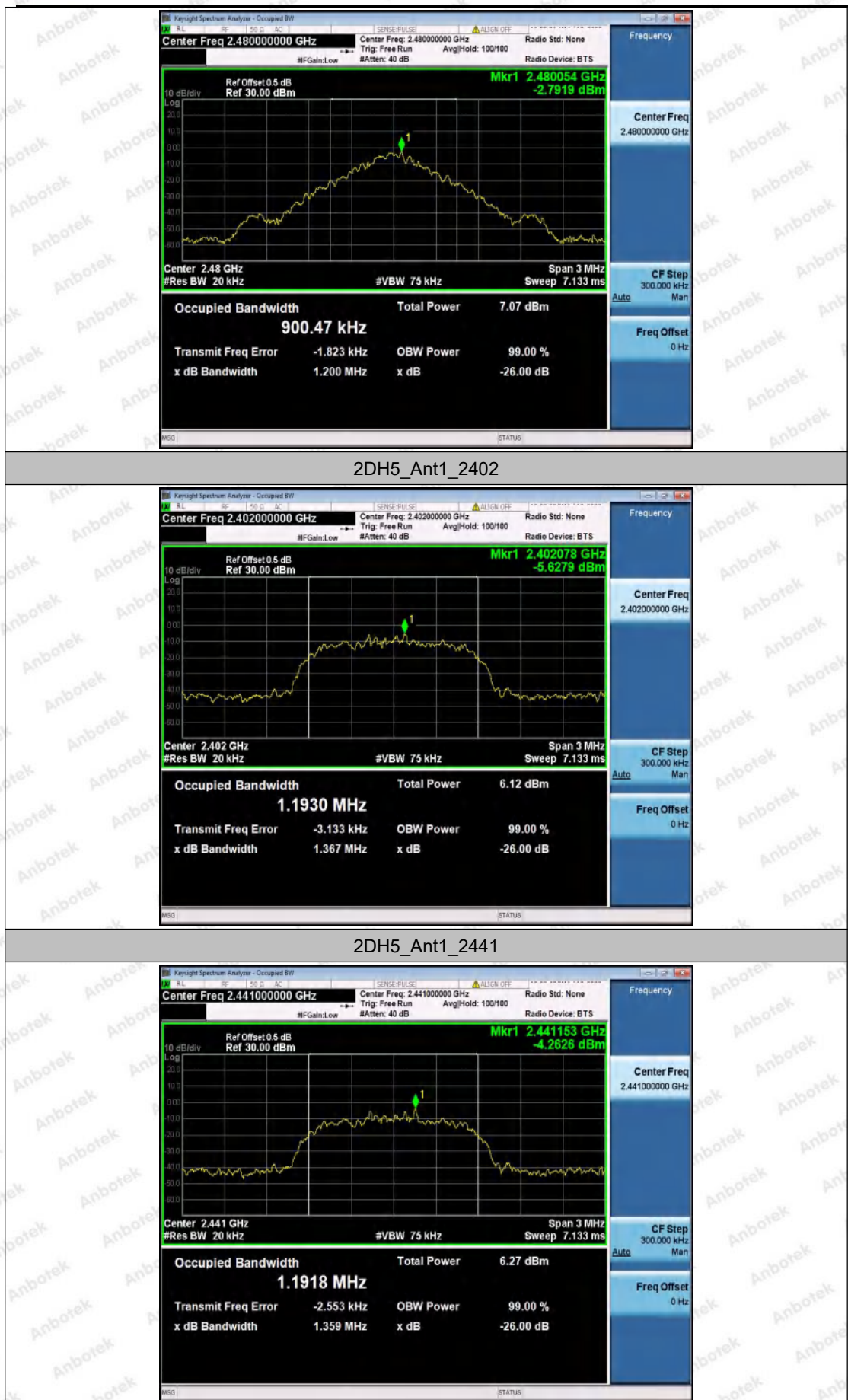
DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



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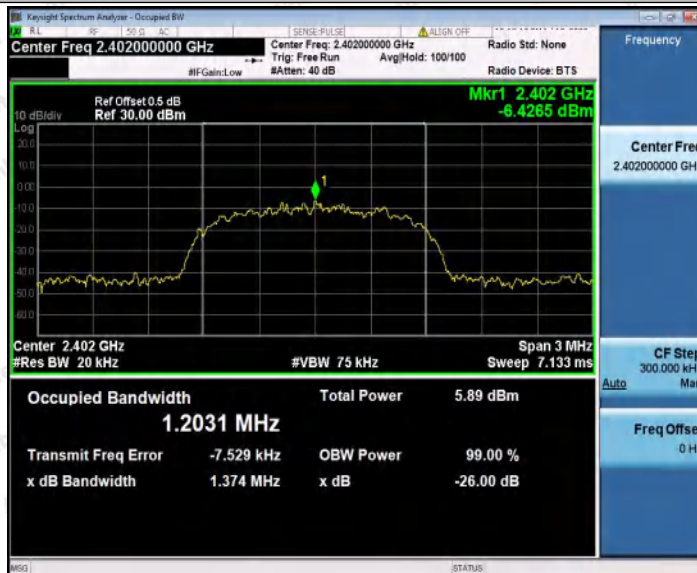
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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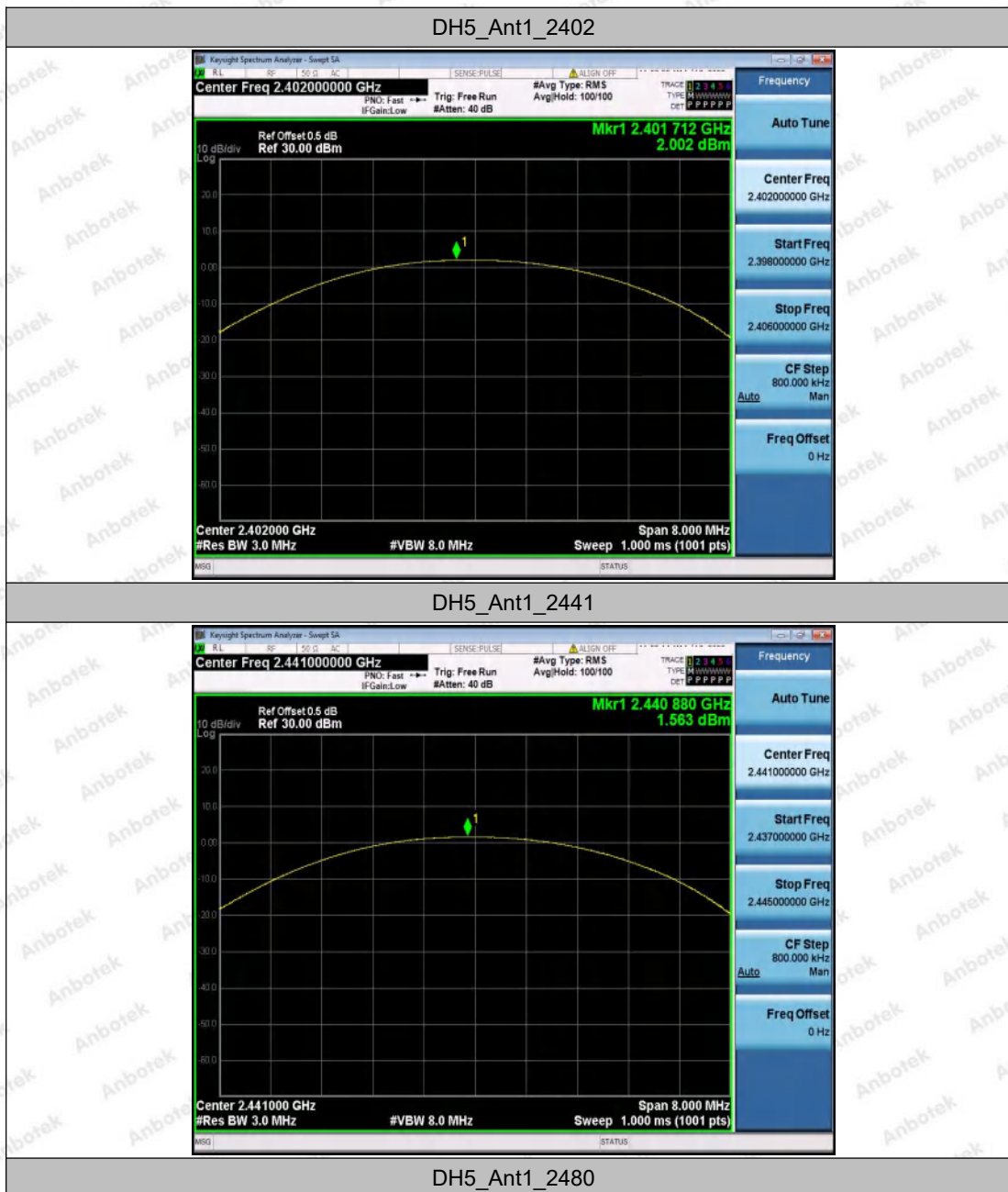
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	2	≤20.97	PASS
		2441	1.56	≤20.97	PASS
		2480	0.85	≤20.97	PASS
2DH5	Ant1	2402	1.3	≤20.97	PASS
		2441	0.9	≤20.97	PASS
		2480	0.23	≤20.97	PASS
3DH5	Ant1	2402	1.38	≤20.97	PASS
		2441	1.07	≤20.97	PASS
		2480	0.35	≤20.97	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 D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.2	≥ 0.945	PASS
2DH5	Ant1	Hop	0.886	≥ 0.884	PASS
3DH5	Ant1	Hop	0.994	≥ 0.848	PASS

Test Graphs





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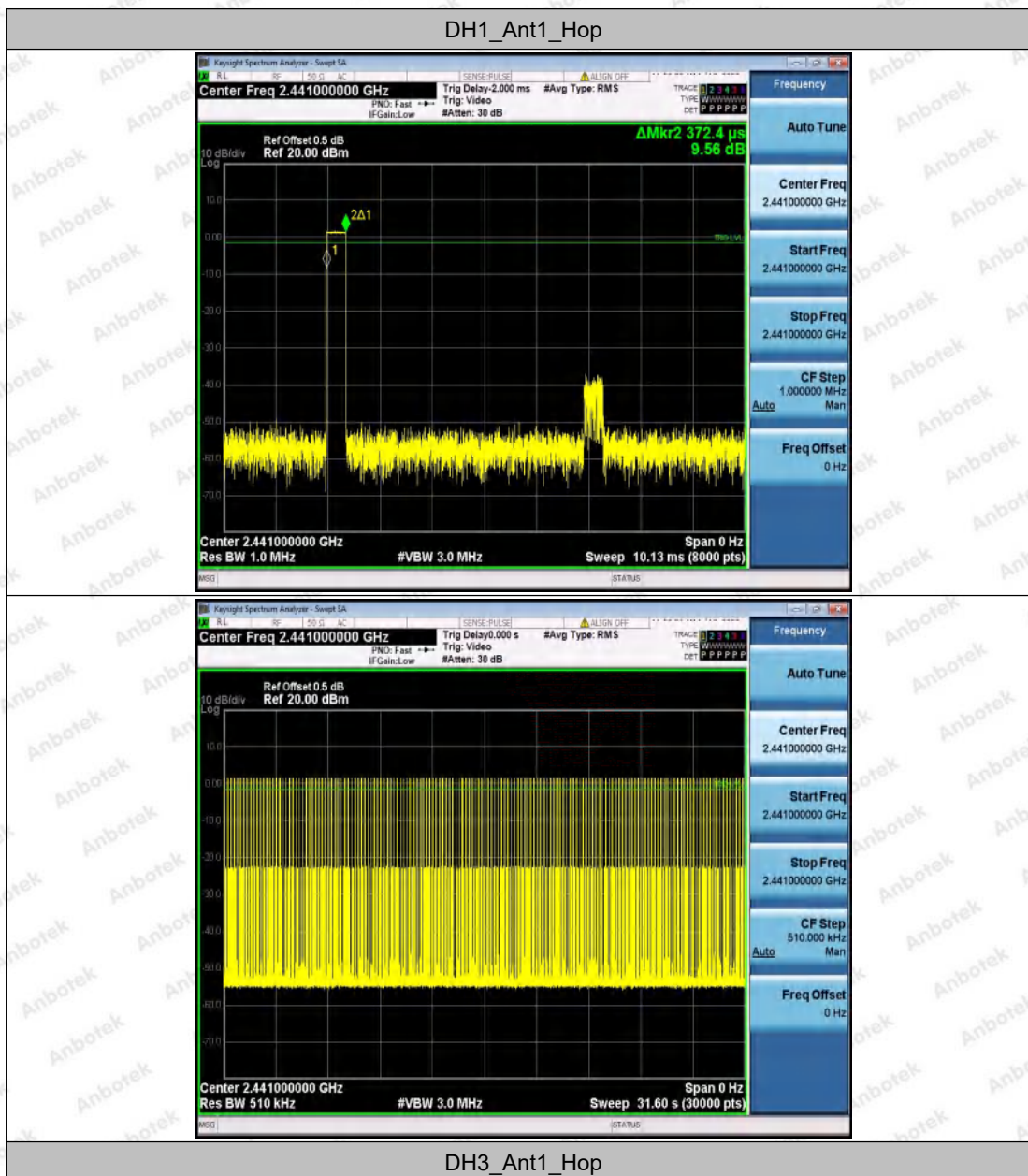
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Appendix E: Time of occupancy

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	158	0.257	≤0.4	PASS
DH5	Ant1	Hop	2.88	101	0.291	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	159	0.259	≤0.4	PASS
2DH5	Ant1	Hop	2.88	102	0.294	≤0.4	PASS
3DH1	Ant1	Hop	0.38	312	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	159	0.259	≤0.4	PASS
3DH5	Ant1	Hop	2.88	96	0.277	≤0.4	PASS

Test Graphs



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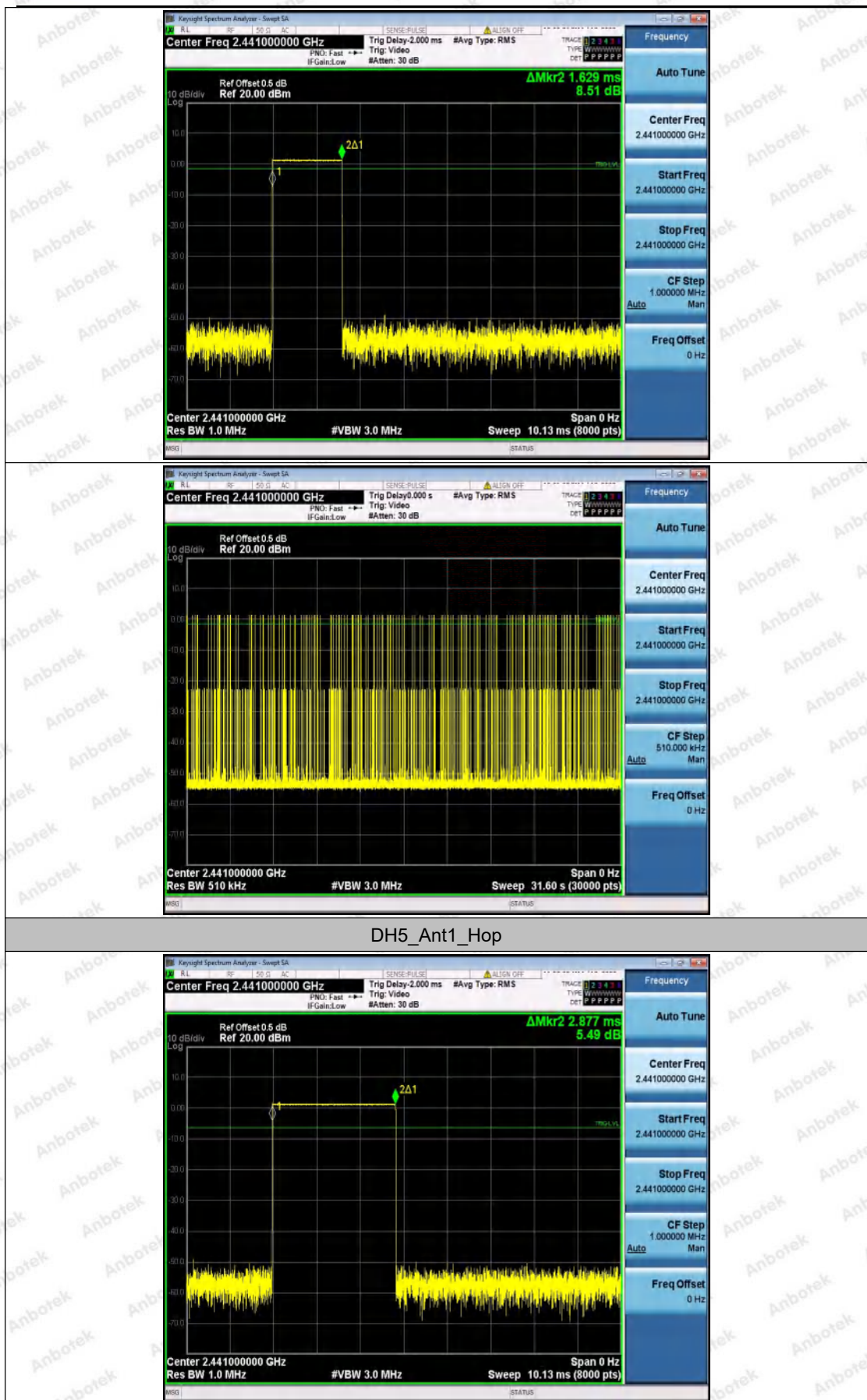
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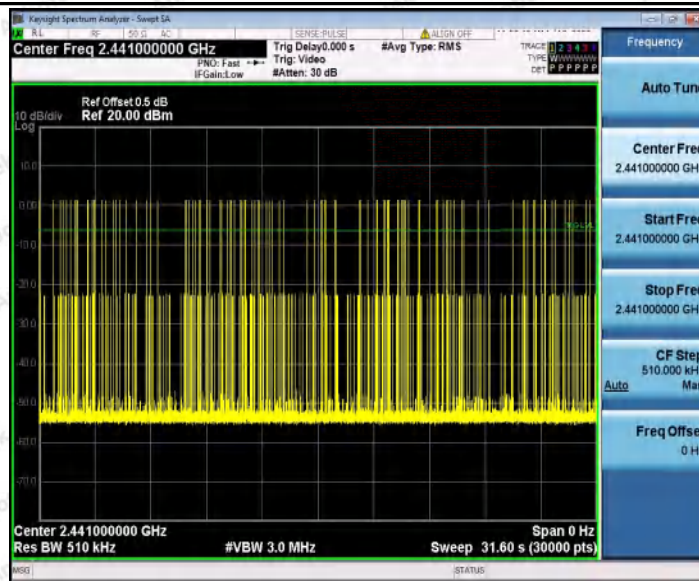
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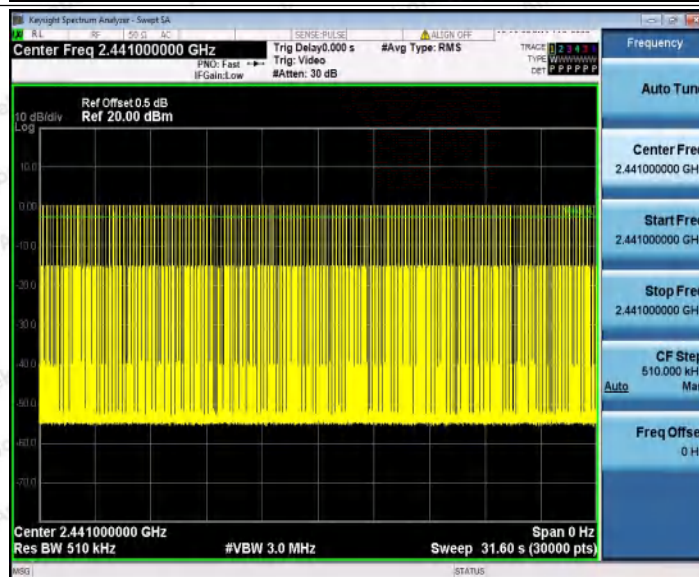
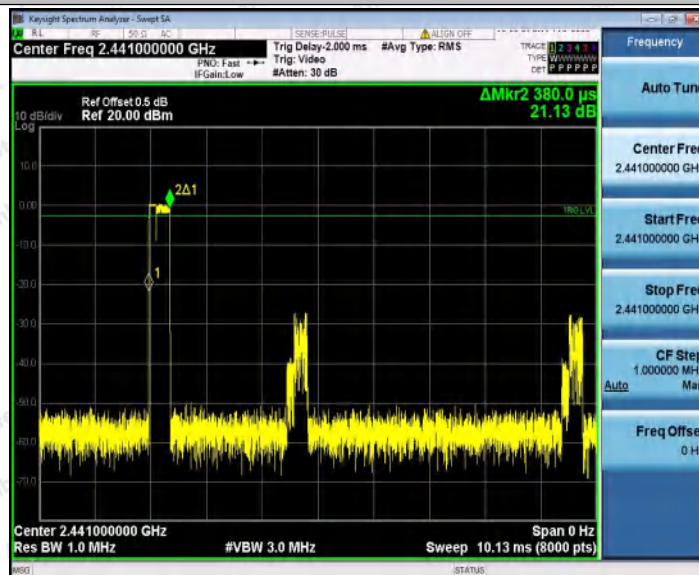
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DH5_Ant1_Hop



2DH1_Ant1_Hop



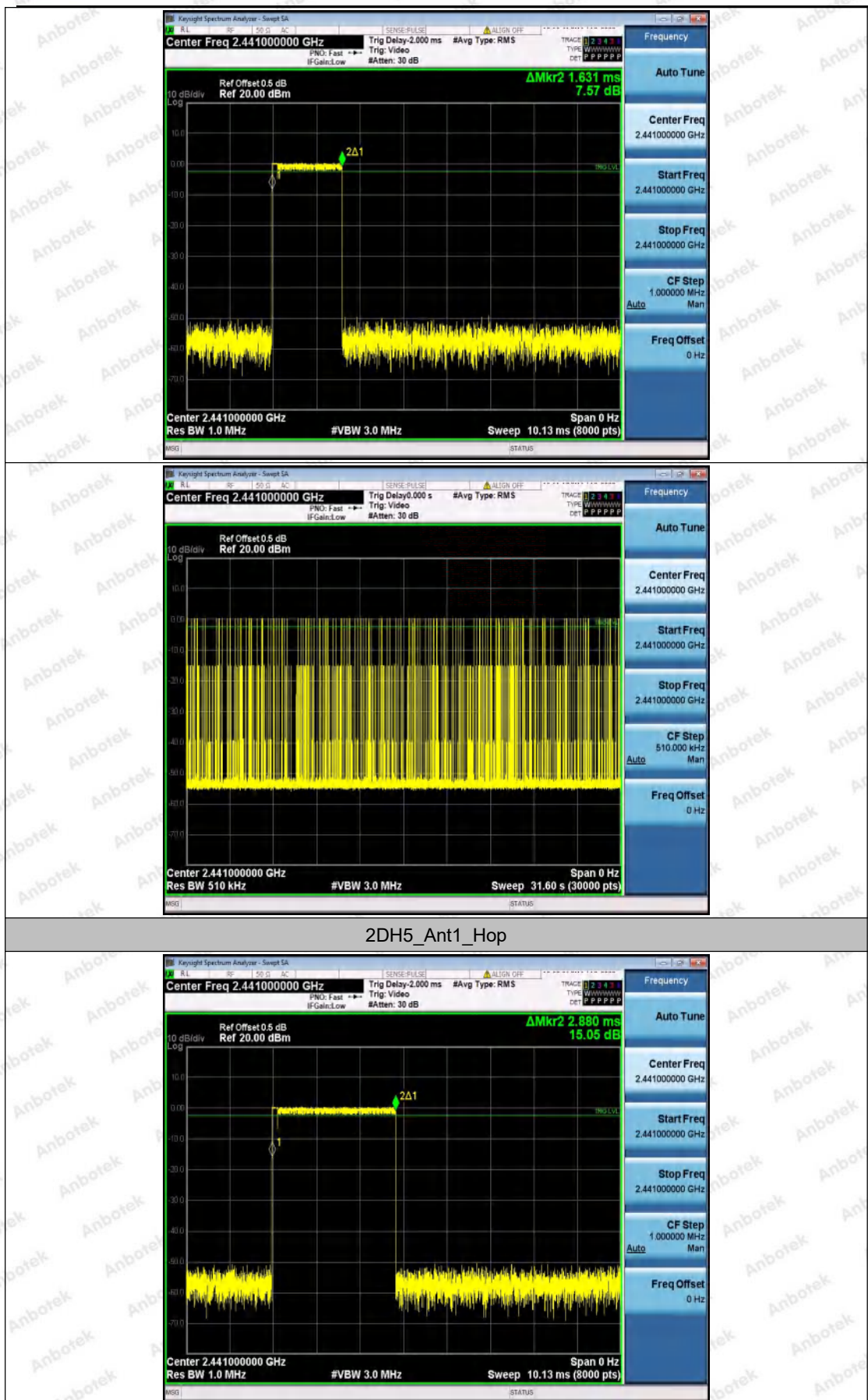
2DH3_Ant1_Hop

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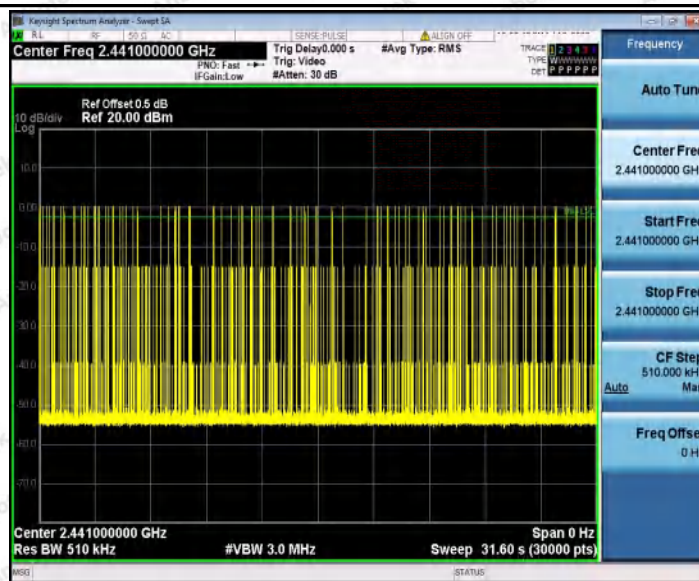
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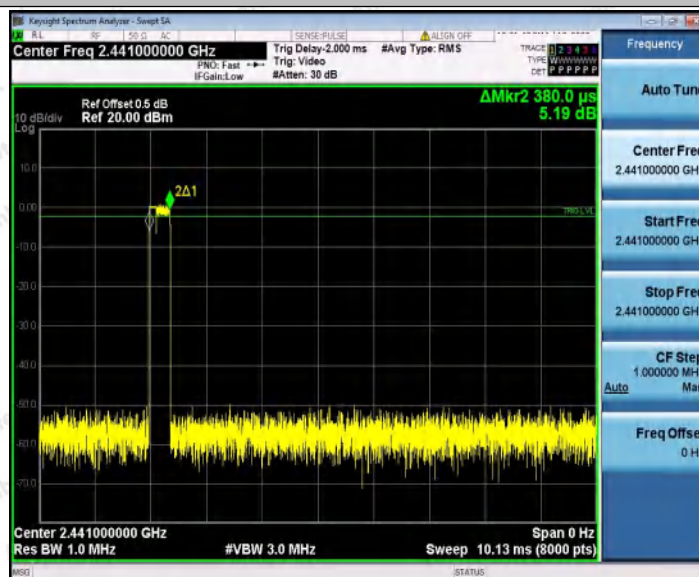
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2DH5_Ant1_Hop



3DH1_Ant1_Hop



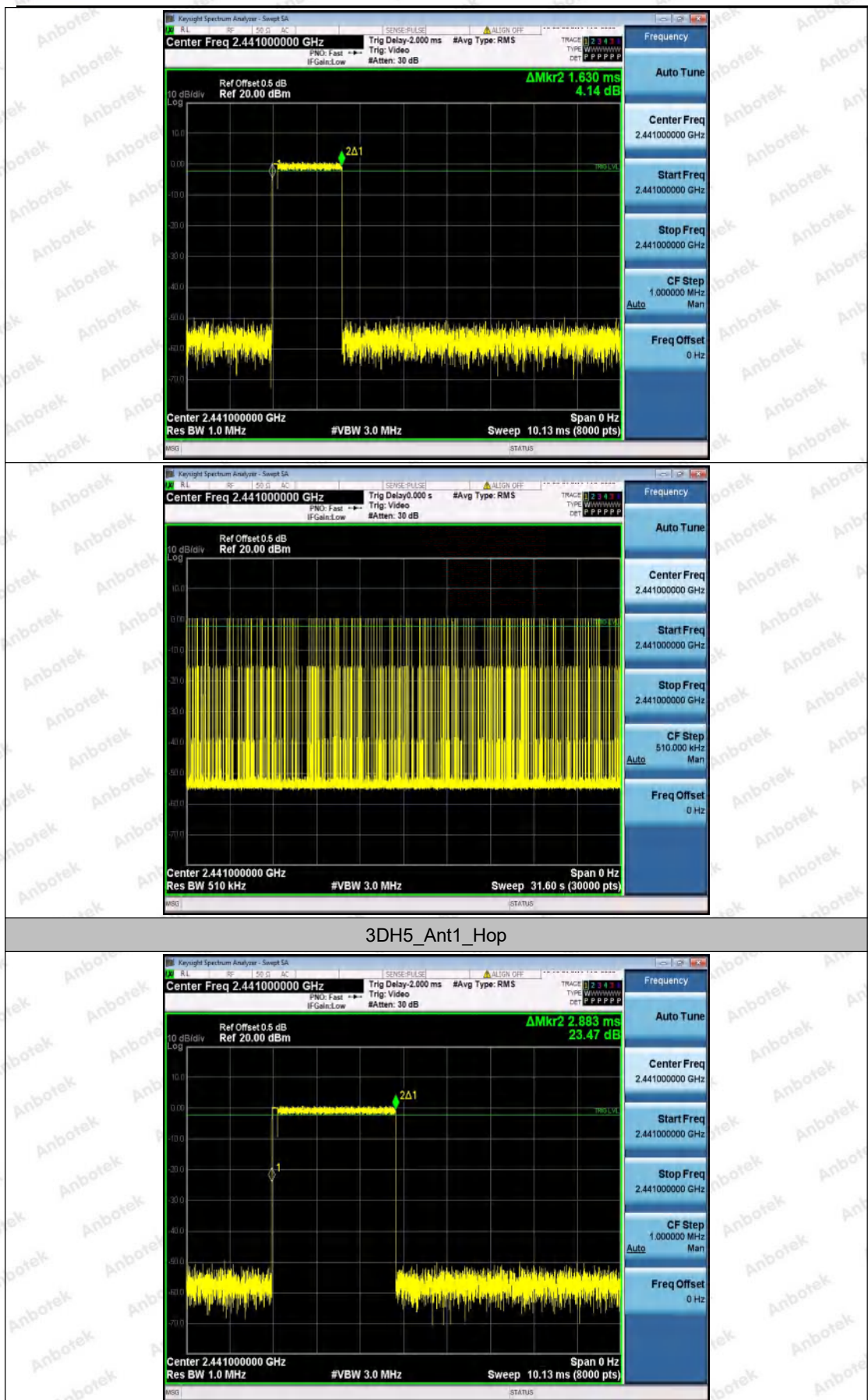
3DH3_Ant1_Hop

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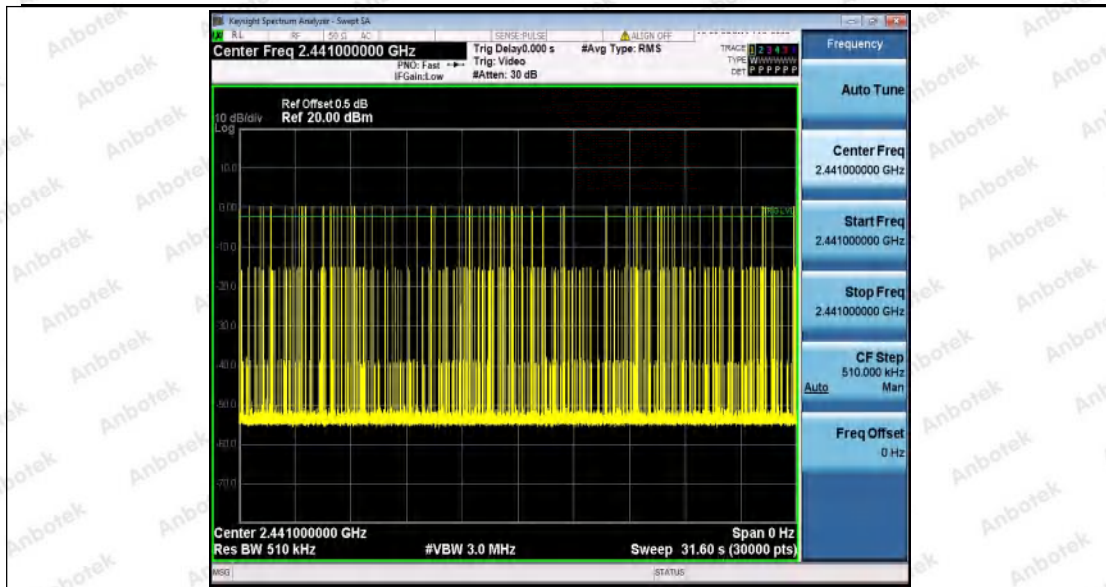
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3DH5_Ant1_Hop



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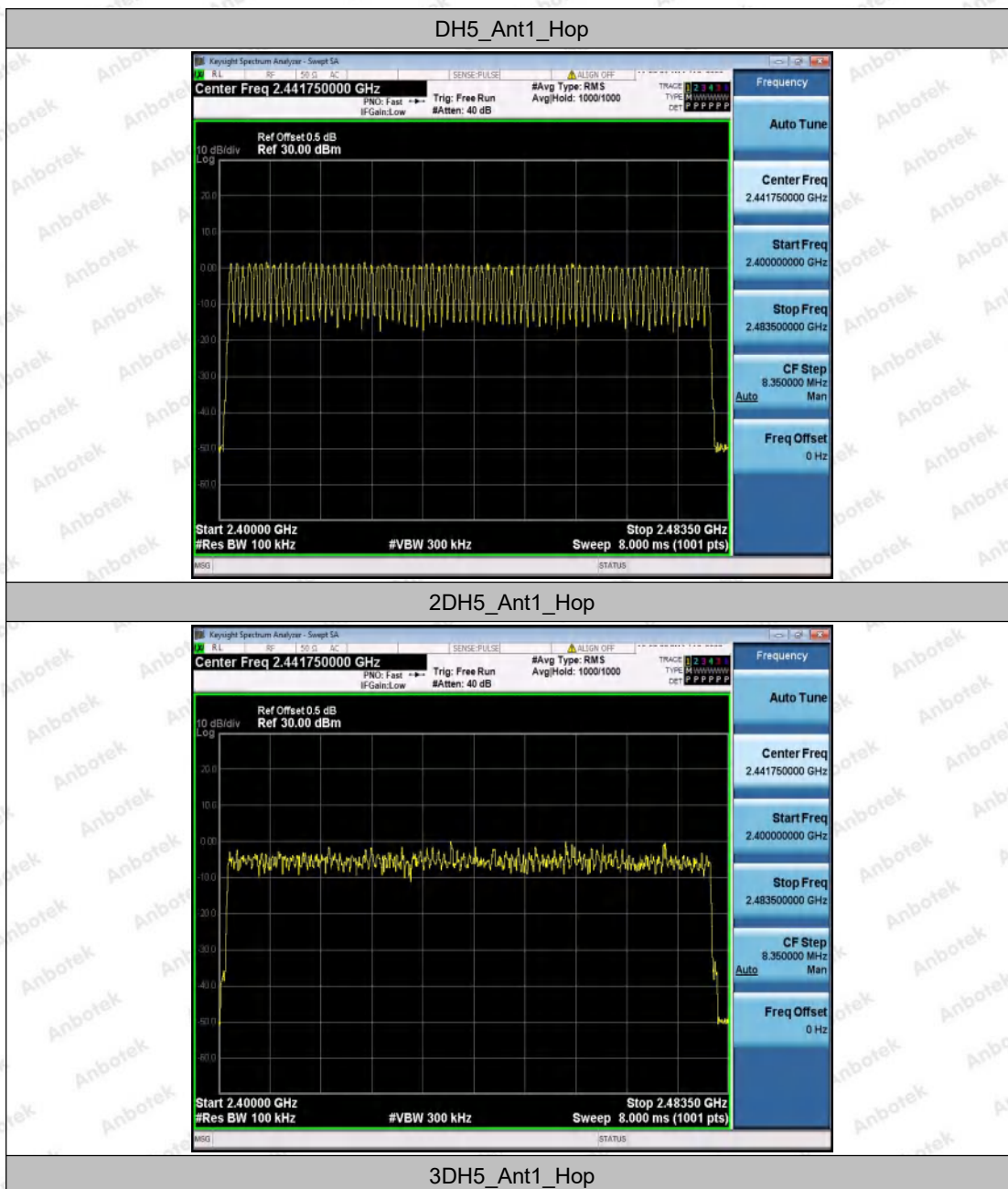
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Appendix F: Number of hopping channels

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

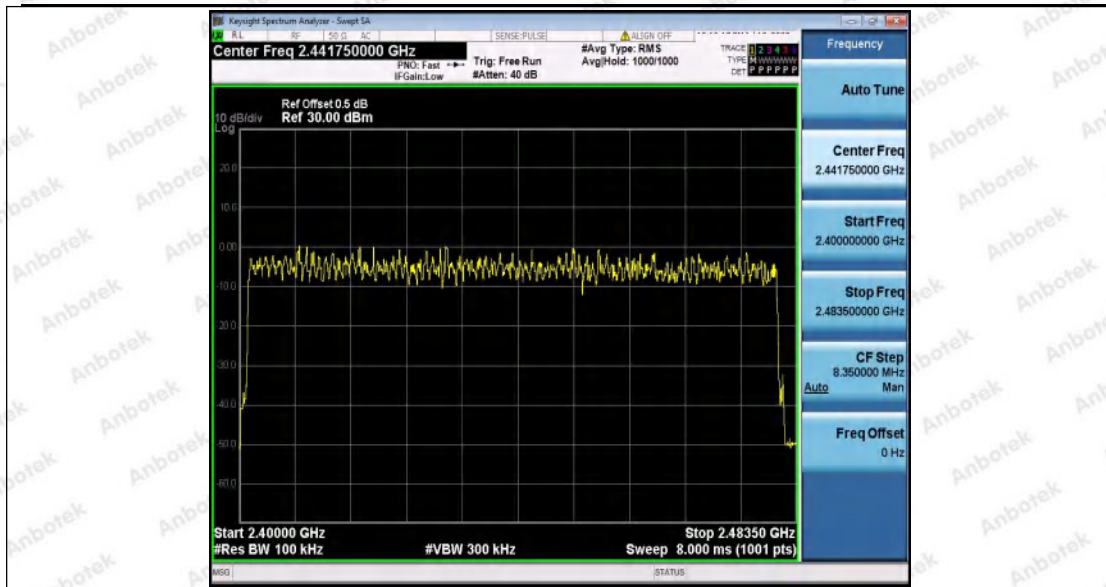


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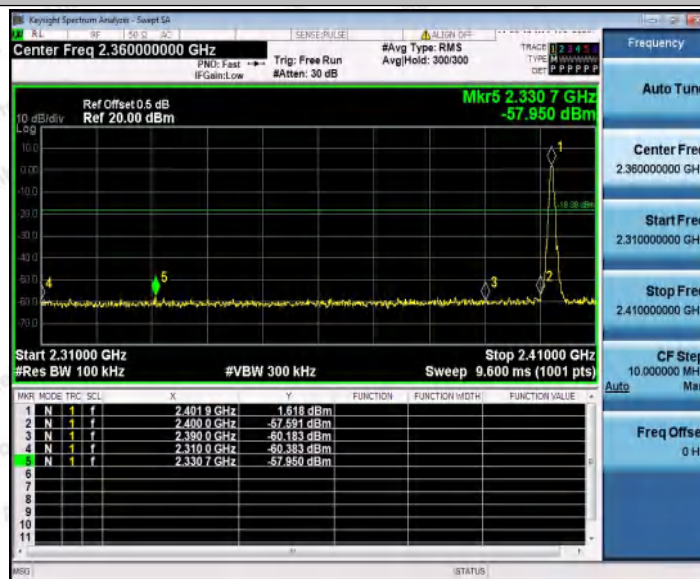
Appendix G: Band edge measurements

Test Result

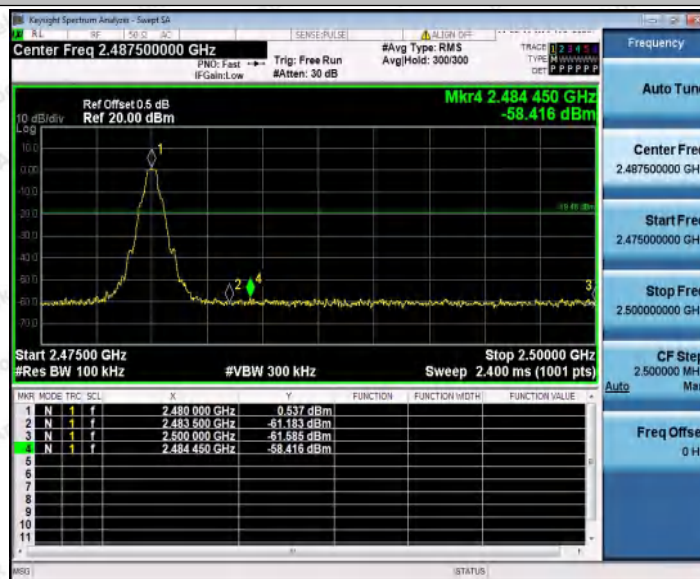
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.62	-57.95	≤-18.38	PASS
		High	2480	0.54	-58.42	≤-19.46	PASS
		Low	Hop	1.49	-58.14	≤-18.51	PASS
		High	Hop	0.18	-59.71	≤-19.82	PASS
2DH5	Ant1	Low	2402	0.25	-54.8	≤-19.75	PASS
		High	2480	-0.46	-58.25	≤-20.46	PASS
		Low	Hop	-3.31	-58.58	≤-23.31	PASS
		High	Hop	-2.38	-59.72	≤-22.38	PASS
3DH5	Ant1	Low	2402	-0.41	-56.55	≤-20.41	PASS
		High	2480	-0.51	-58.14	≤-20.51	PASS
		Low	Hop	-2.90	-58.18	≤-22.9	PASS
		High	Hop	-0.65	-60.42	≤-20.65	PASS

Test Graphs

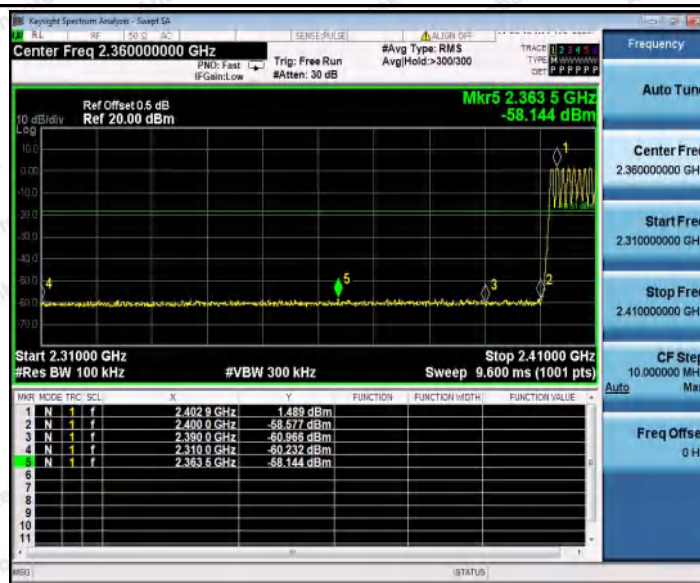
DH5_Ant1_Low_2402



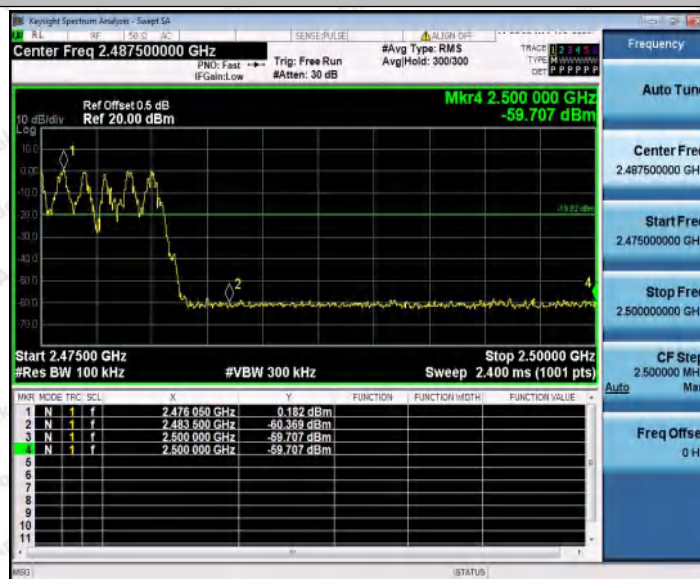
DH5_Ant1_High_2480



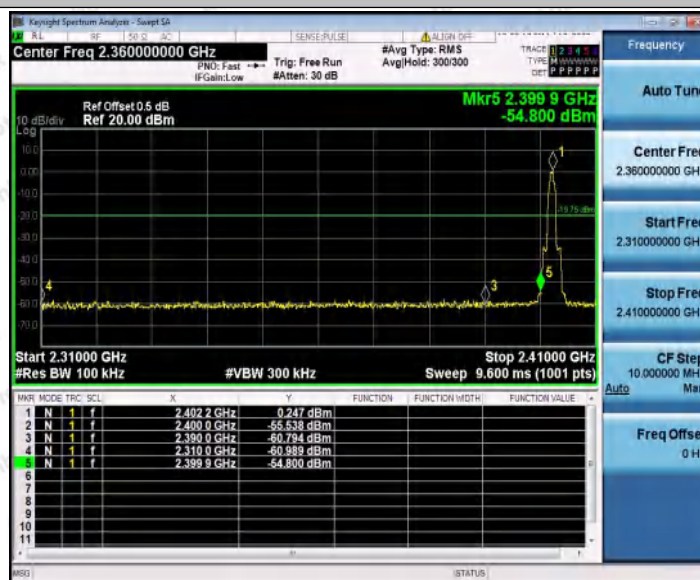
DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



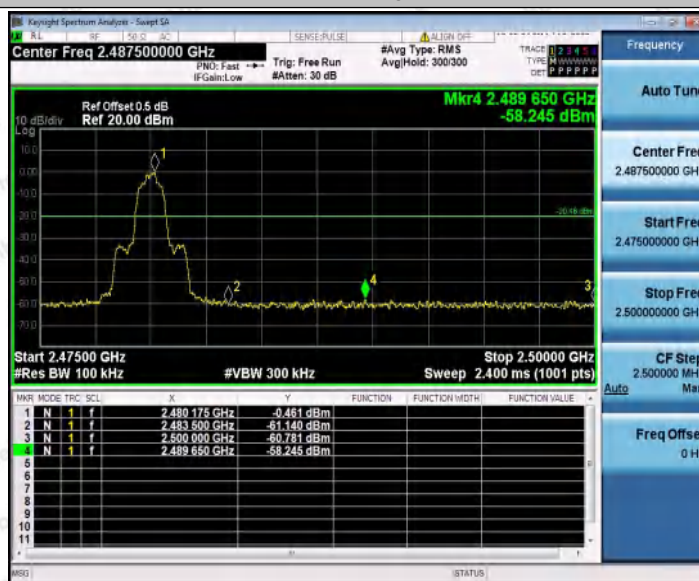
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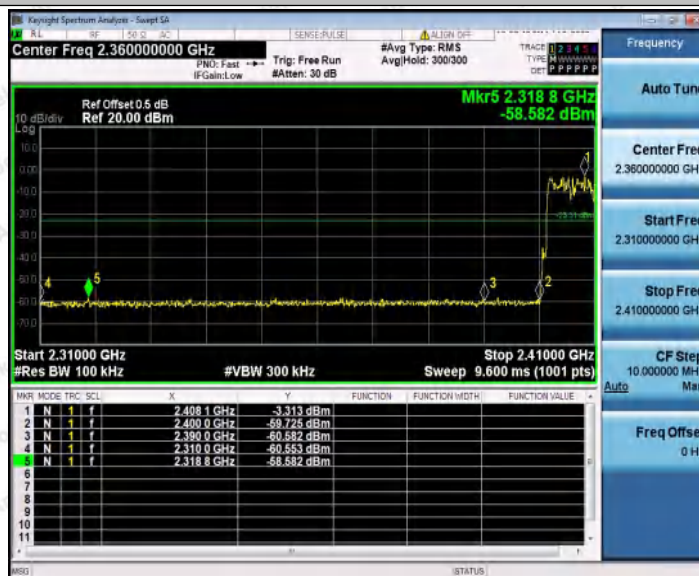
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2DH5_Ant1_High_2480



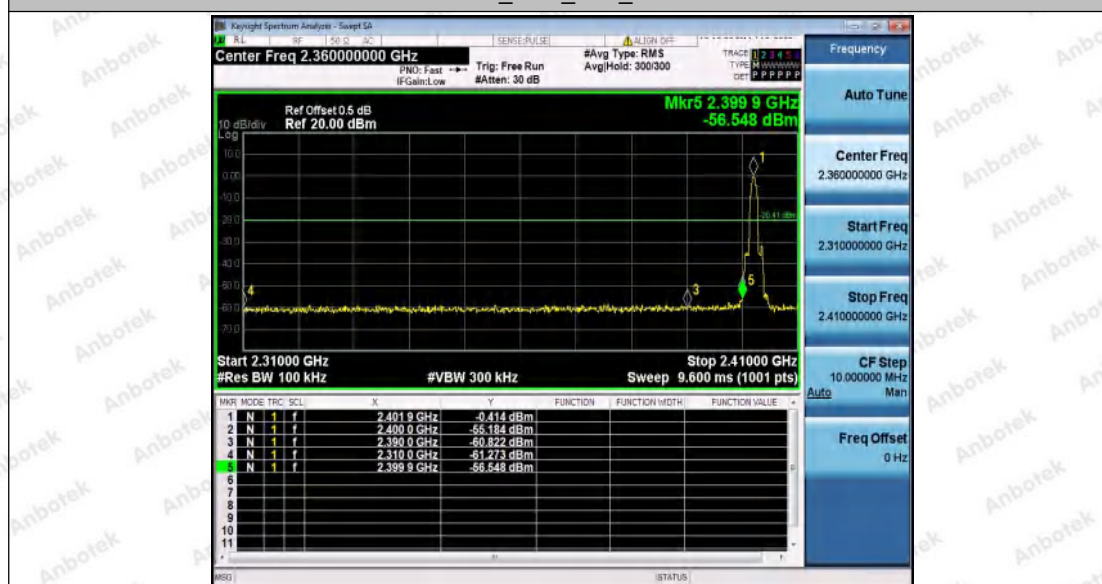
2DH5_Ant1_Low_Hop



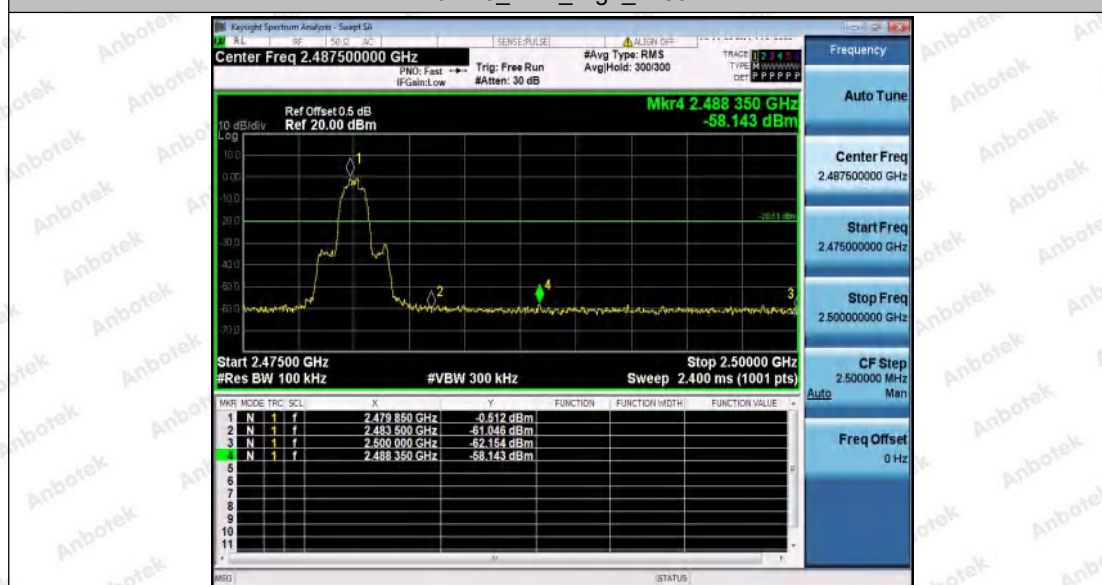
2DH5_Ant1_High_Hop



3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



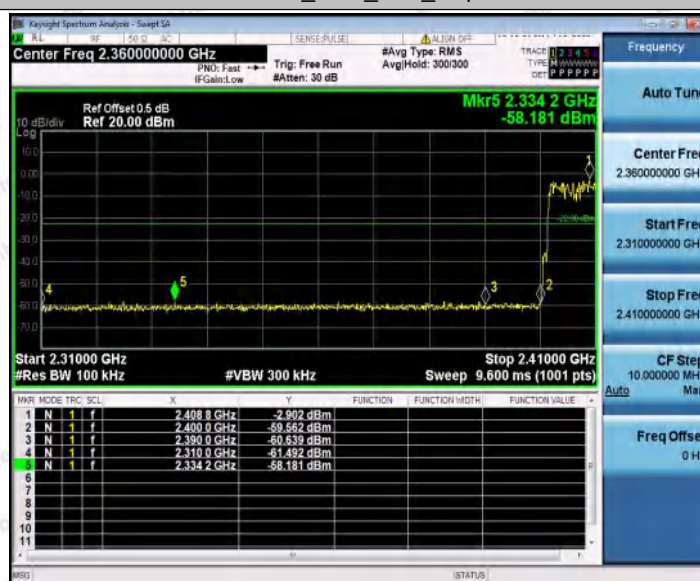
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3DH5_Ant1_Low_Hop



3DH5_Ant1_High_Hop



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Appendix H: Conducted Spurious Emission

Test Result

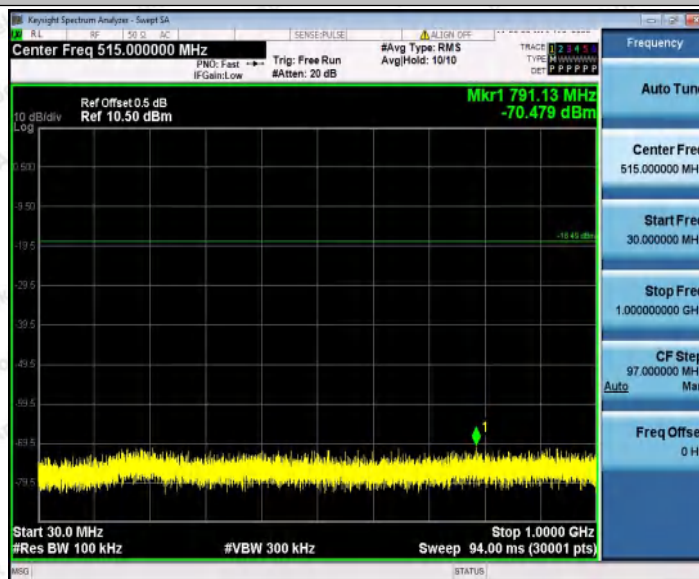
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.51	1.51	---	PASS
			30~1000	1.51	-70.48	≤-18.49	PASS
			1000~26500	1.51	-54.35	≤-18.49	PASS
		2441	Reference	0.70	0.70	---	PASS
			30~1000	0.70	-70.52	≤-19.3	PASS
			1000~26500	0.70	-54.25	≤-19.3	PASS
		2480	Reference	-0.03	-0.03	---	PASS
			30~1000	-0.03	-68.37	≤-20.03	PASS
			1000~26500	-0.03	-54.44	≤-20.03	PASS
2DH5	Ant1	2402	Reference	-0.41	-0.41	---	PASS
			30~1000	-0.41	-69.94	≤-20.41	PASS
			1000~26500	-0.41	-54.84	≤-20.41	PASS
		2441	Reference	0.04	0.04	---	PASS
			30~1000	0.04	-69.3	≤-19.96	PASS
			1000~26500	0.04	-54.03	≤-19.96	PASS
		2480	Reference	-1.23	-1.23	---	PASS
			30~1000	-1.23	-69.71	≤-21.23	PASS
			1000~26500	-1.23	-54.27	≤-21.23	PASS
3DH5	Ant1	2402	Reference	-0.55	-0.55	---	PASS
			30~1000	-0.55	-67.24	≤-20.55	PASS
			1000~26500	-0.55	-53.94	≤-20.55	PASS
		2441	Reference	-0.59	-0.59	---	PASS
			30~1000	-0.59	-51.84	≤-20.59	PASS
			1000~26500	-0.59	-53.51	≤-20.59	PASS
		2480	Reference	-1.24	-1.24	---	PASS
			30~1000	-1.24	-69.03	≤-21.24	PASS
			1000~26500	-1.24	-48.95	≤-21.24	PASS

Test Graphs

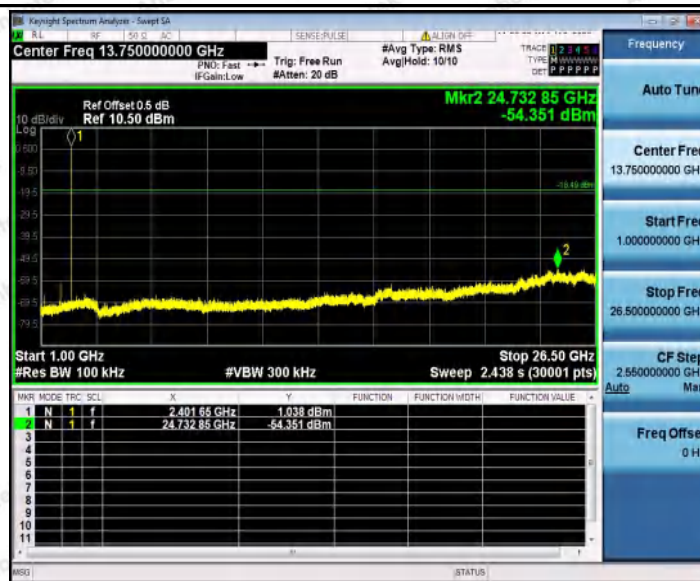
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



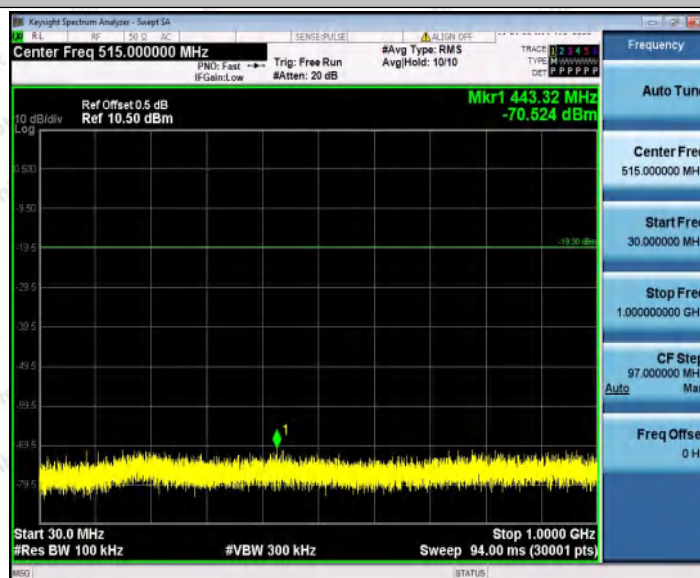
DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



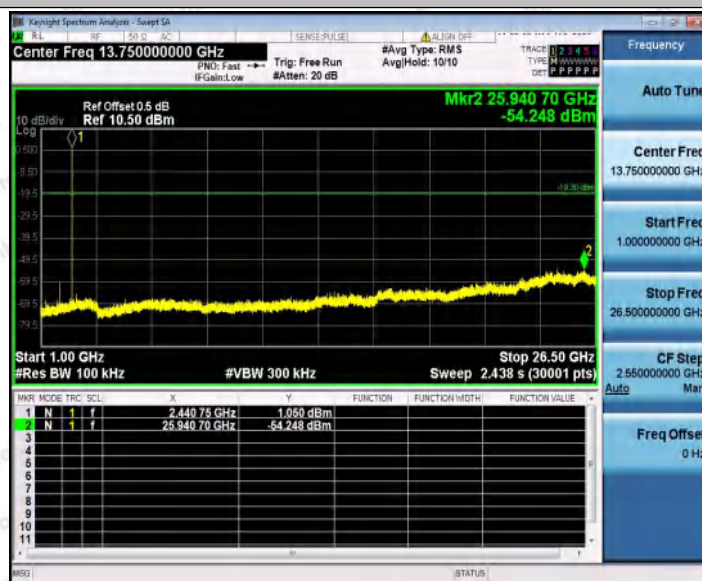
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



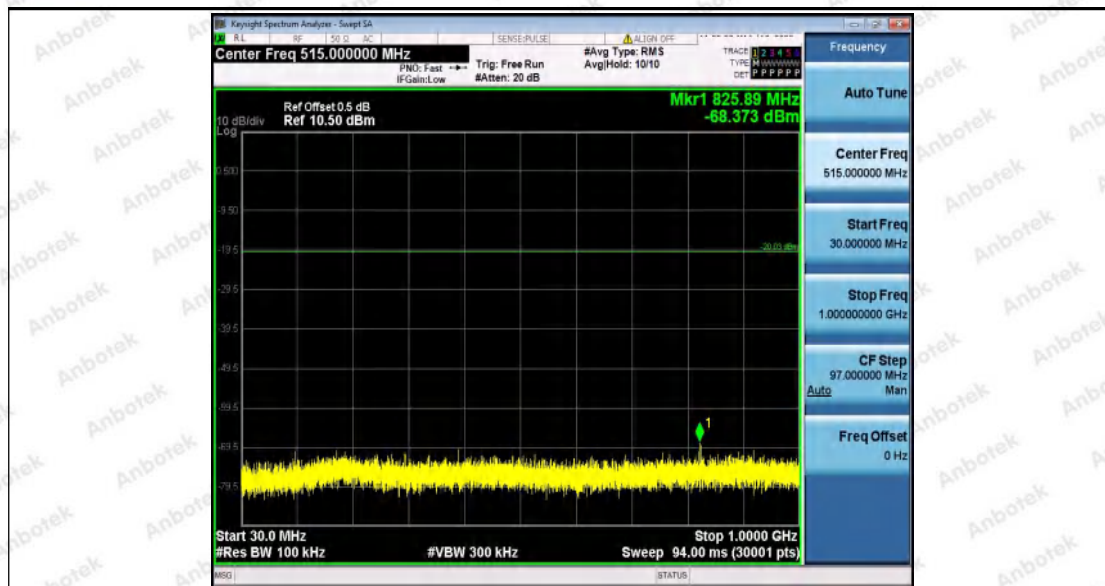
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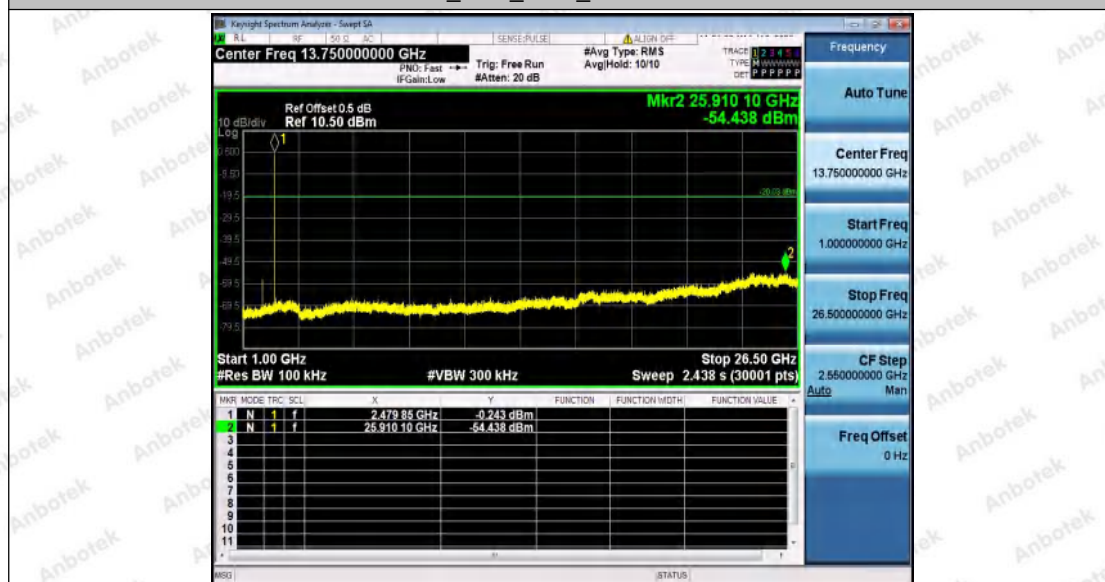
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

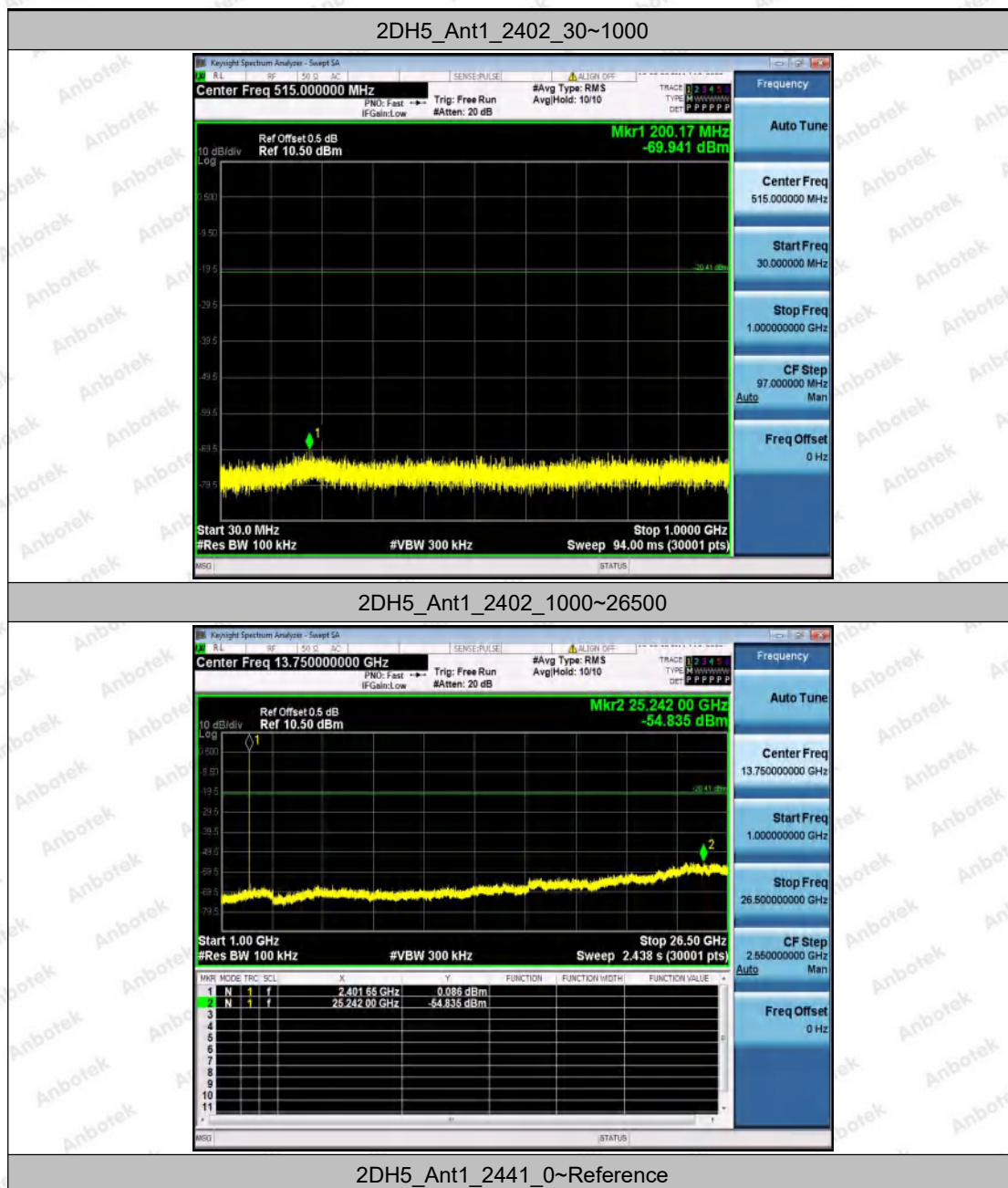


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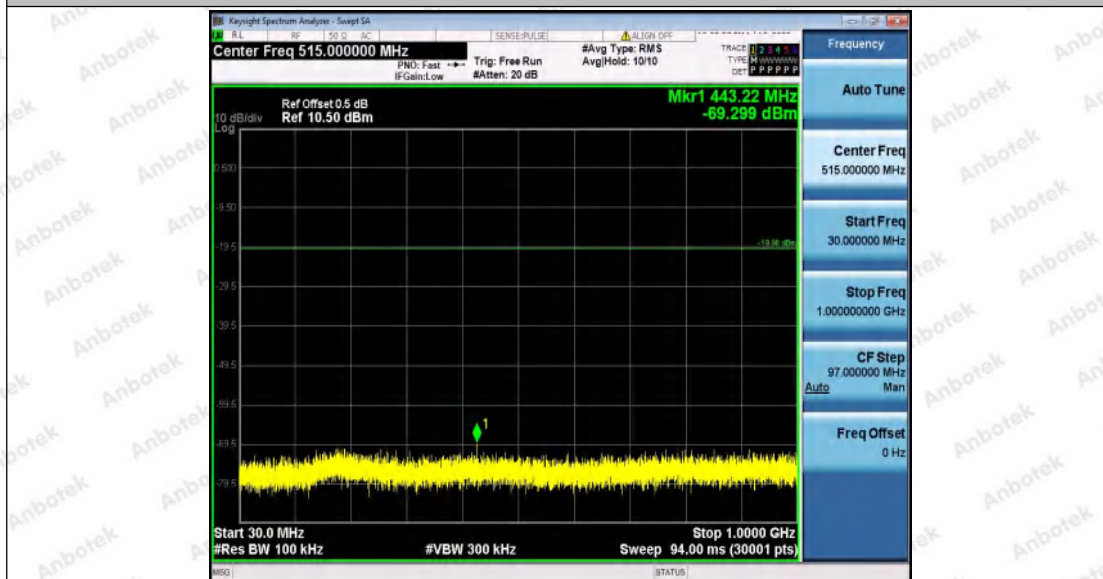
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

Hotline
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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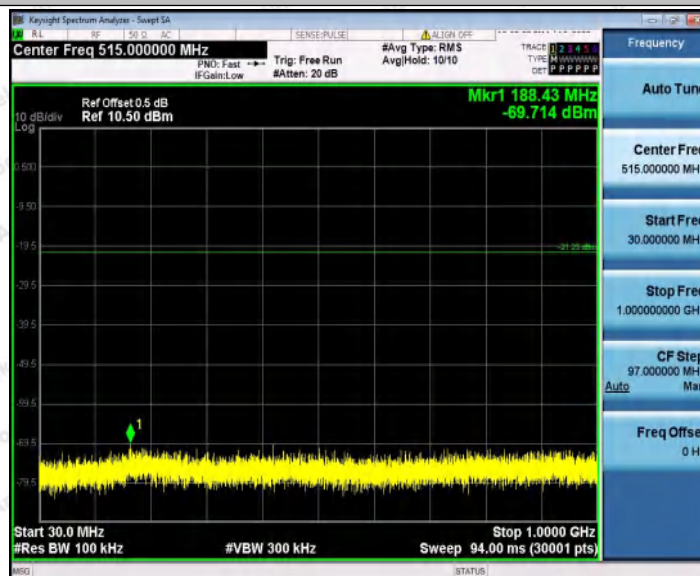
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



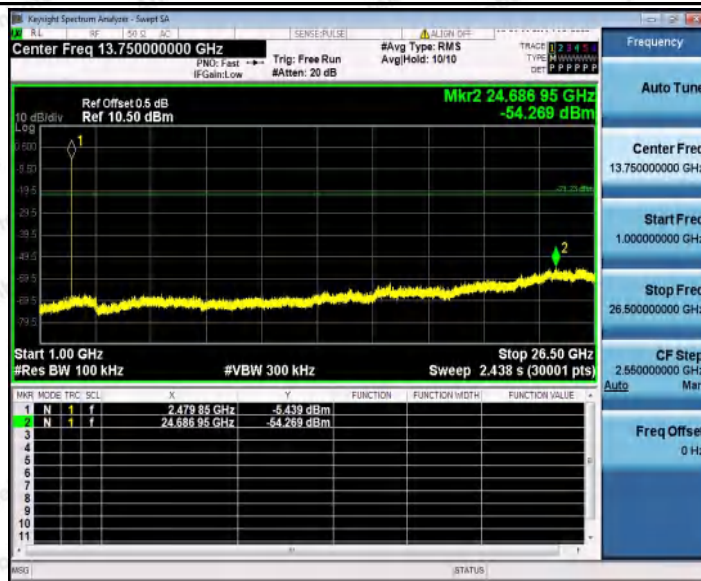
2DH5_Ant1_2480_1000~26500

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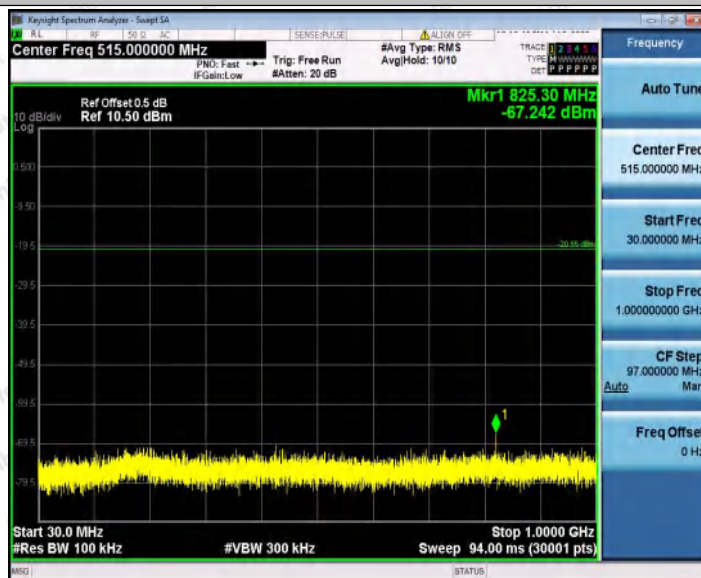
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



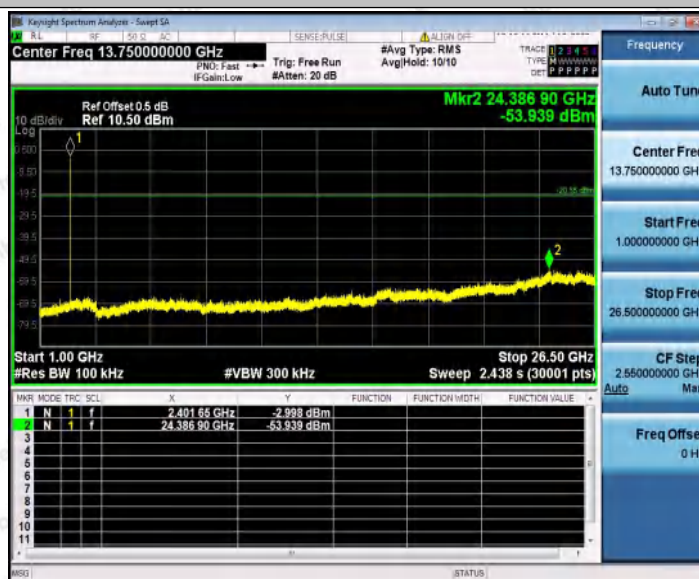
Shenzhen Anbotech Compliance Laboratory Limited

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

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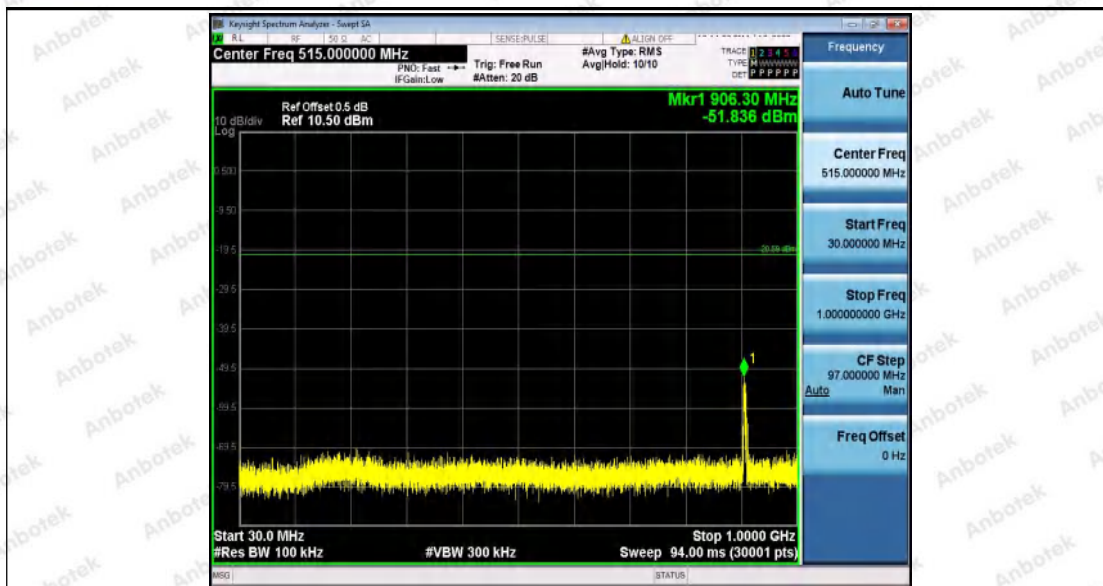
3DH5_Ant1_2402_1000~26500



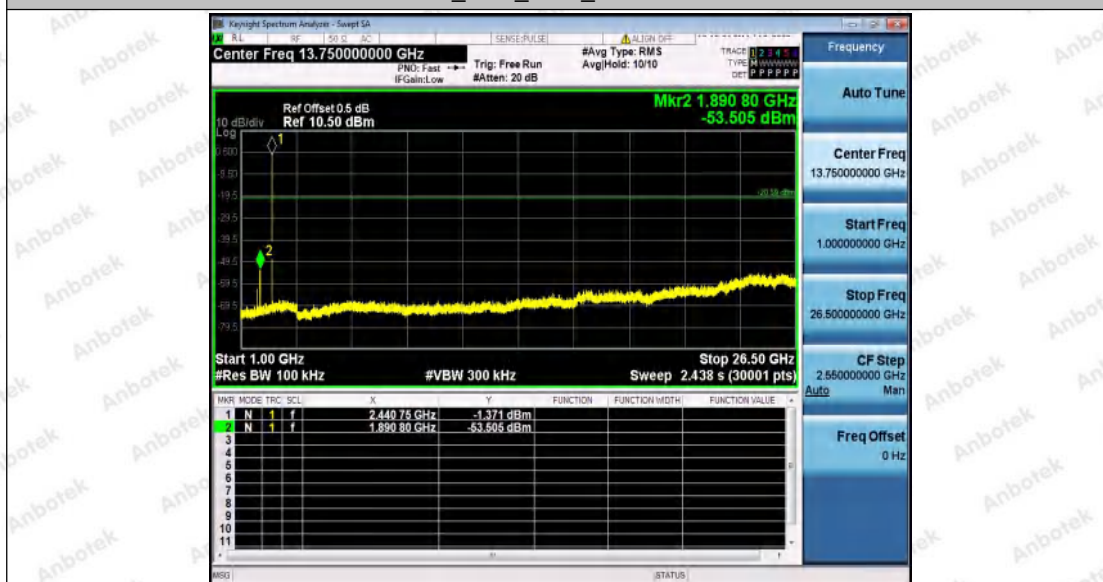
3DH5_Ant1_2441_0~Reference



3DH5_Ant1_2441_30~1000



3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

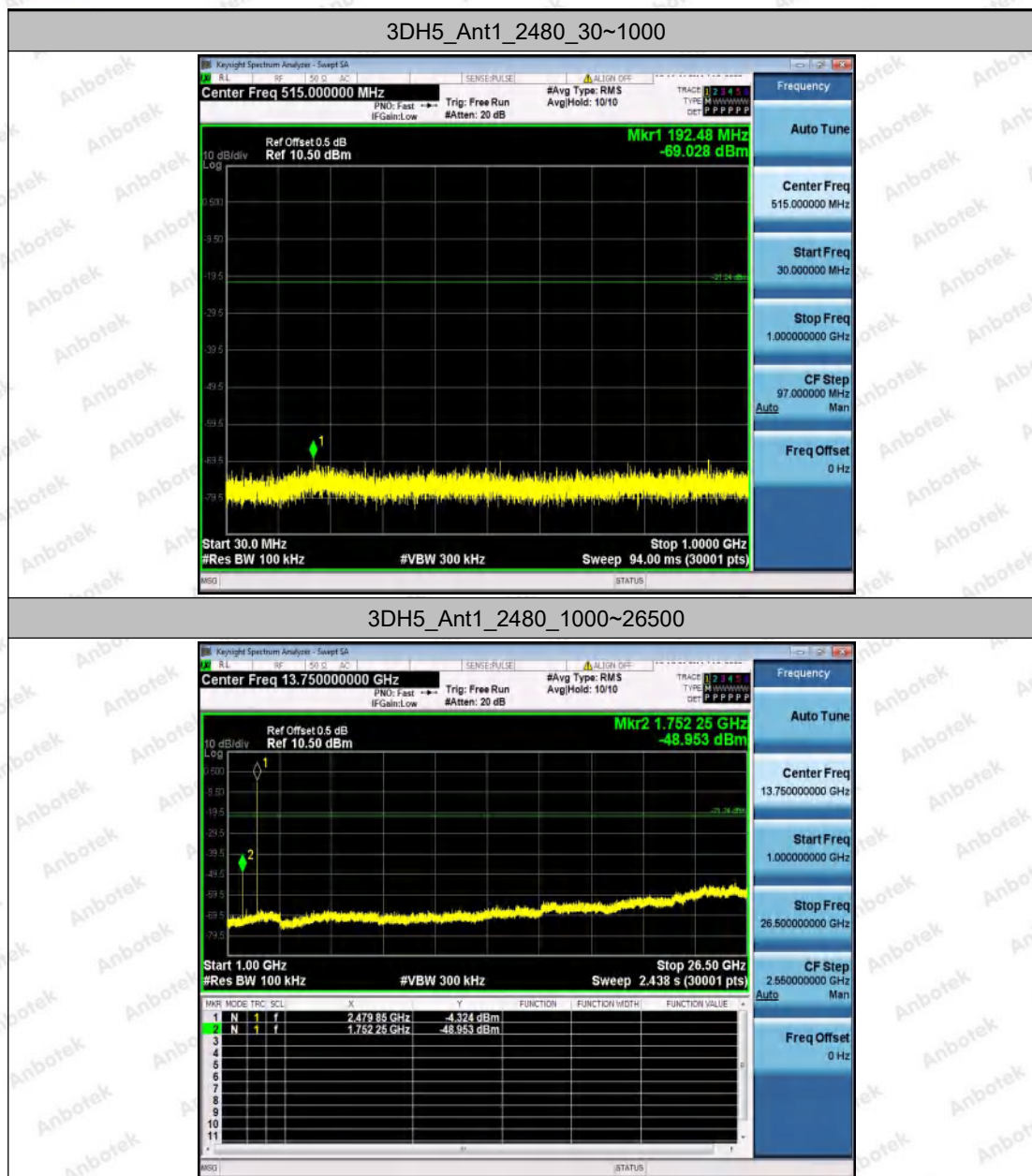


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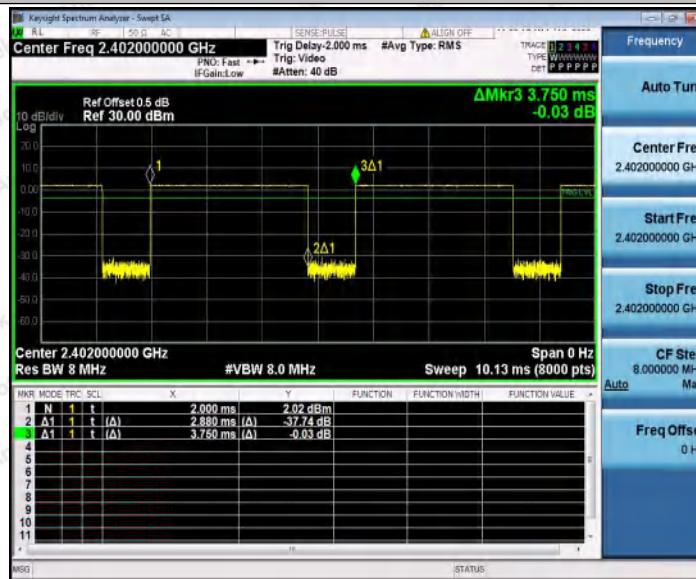
Appendix I: Duty Cycle

Test Result

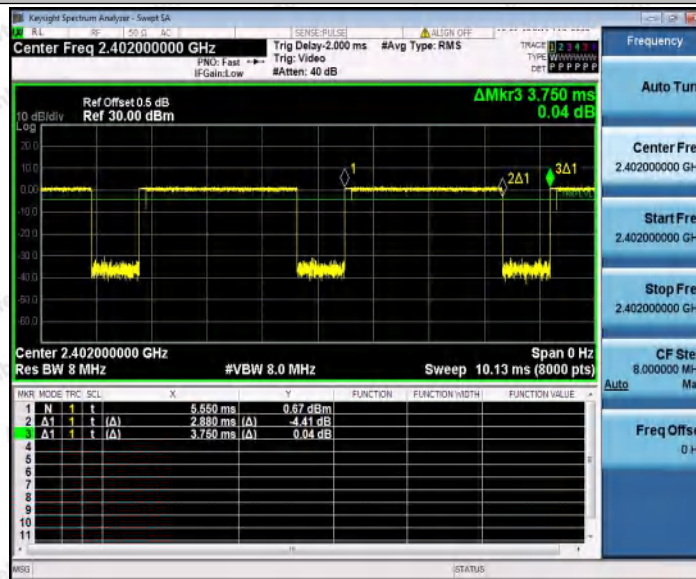
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS

Test Graphs

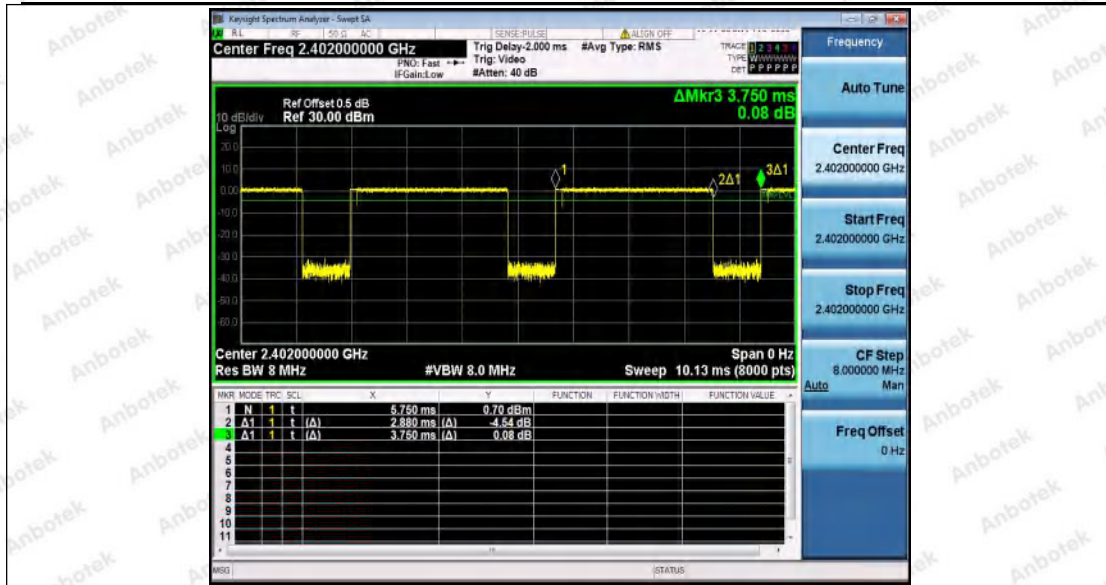
DH5_Ant1_2402



2DH5_Ant1_2402



3DH5_Ant1_2402



---End---