

Appendix Test Data

Report No.:	18220WC20145001	Test Sample No.:	1-2-2
Start Test Date:	2022.7.13	Finish Test Date:	2022.7.18
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	22.9°C	Relative Humidity:	53.7 %
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	0.951	2401.535	2402.486	---	PASS
		2441	0.948	2440.535	2441.483	---	PASS
		2480	0.951	2479.532	2480.483	---	PASS
2DH5	Ant1	2402	1.323	2401.334	2402.657	---	PASS
		2441	1.269	2440.364	2441.633	---	PASS
		2480	1.266	2479.364	2480.630	---	PASS
3DH5	Ant1	2402	1.308	2401.346	2402.654	---	PASS
		2441	1.302	2440.346	2441.648	---	PASS
		2480	1.272	2479.349	2480.621	---	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	0.89660	2401.55 0	2402.446	---	PASS
		2441	0.89033	2440.55 2	2441.442	---	PASS
		2480	0.89620	2479.55 0	2480.446	---	PASS
2DH5	Ant1	2402	1.1853	2401.40 4	2402.590	---	PASS
		2441	1.1883	2440.40 3	2441.591	---	PASS
		2480	1.1917	2479.40 1	2480.593	---	PASS
3DH5	Ant1	2402	1.2006	2401.39 1	2402.592	---	PASS
		2441	1.2074	2440.38 6	2441.593	---	PASS
		2480	1.2087	2479.38 5	2480.594	---	PASS

Test Graphs

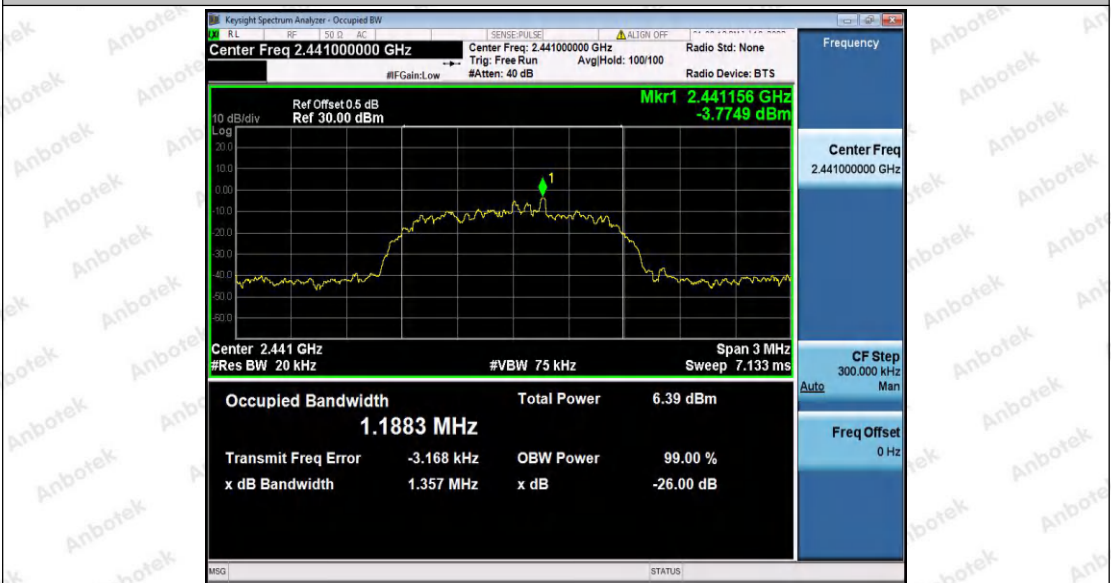




2DH5_Ant1_2402



2DH5_Ant1_2441



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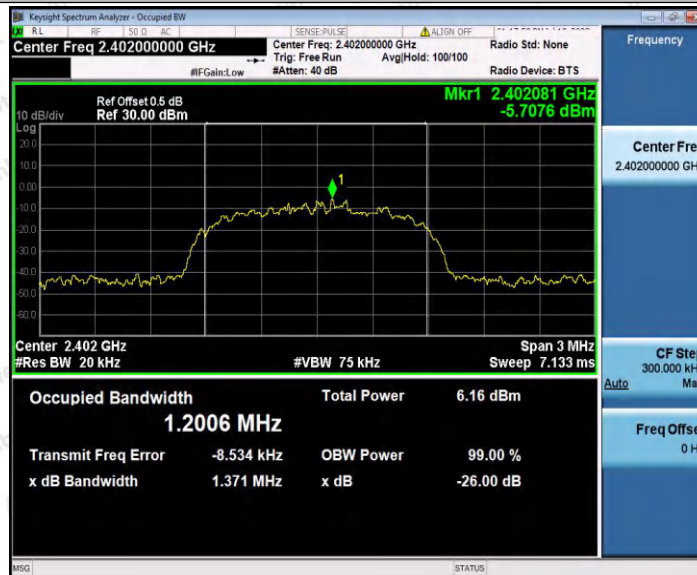
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2DH5_Ant1_2480



3DH5_Ant1_2402



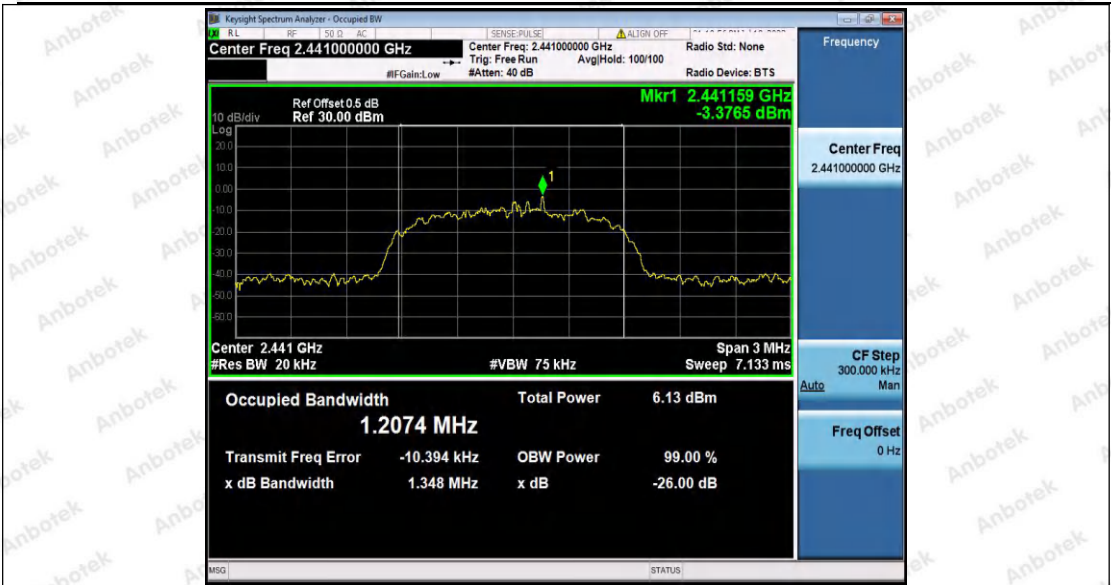
3DH5_Ant1_2441

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3DH5_Ant1_2480



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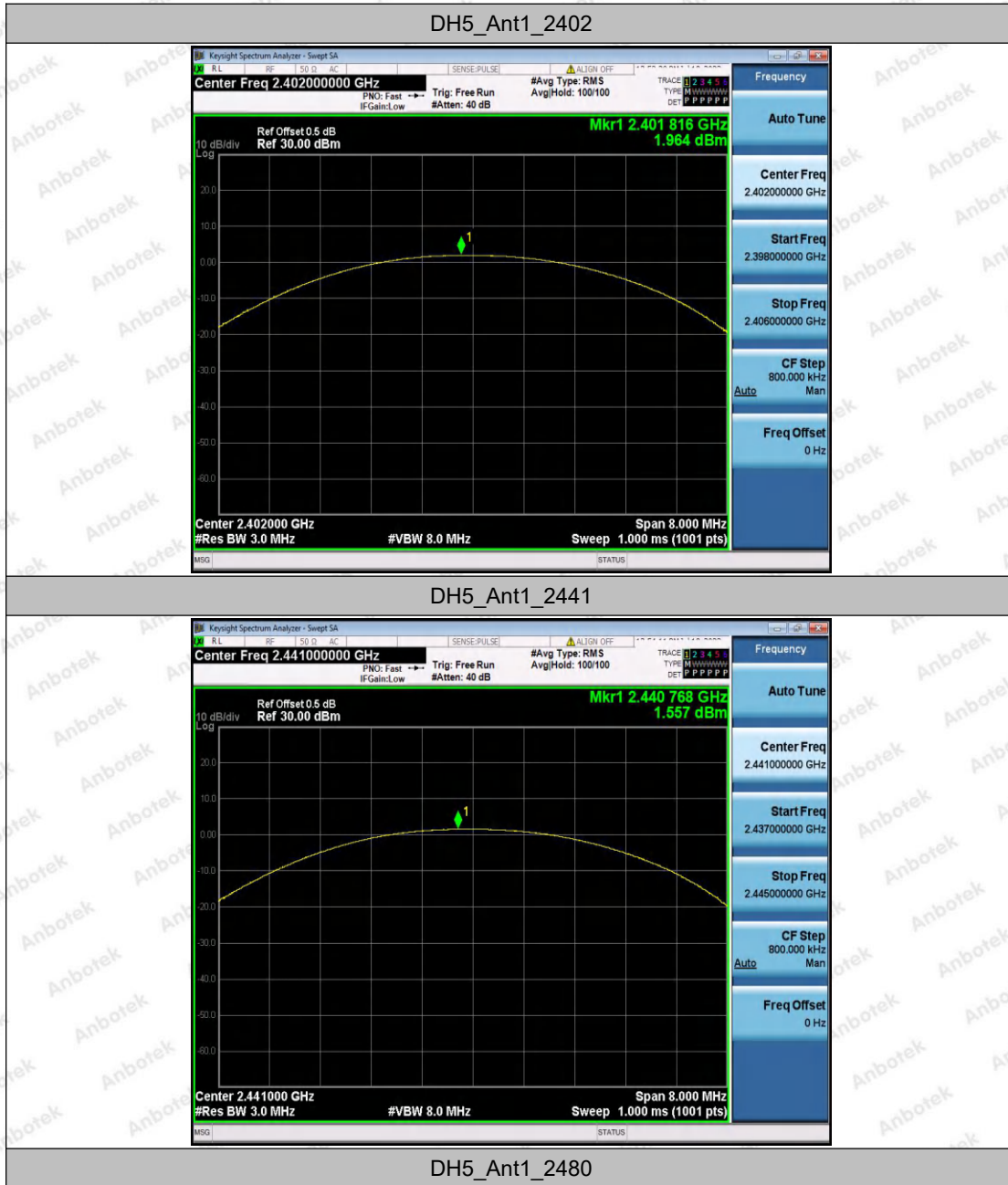
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.96	≤20.97	PASS
		2441	1.56	≤20.97	PASS
		2480	0.85	≤20.97	PASS
2DH5	Ant1	2402	1.28	≤20.97	PASS
		2441	0.93	≤20.97	PASS
		2480	0.17	≤20.97	PASS
3DH5	Ant1	2402	1.34	≤20.97	PASS
		2441	1.03	≤20.97	PASS
		2480	0.3	≤20.97	PASS

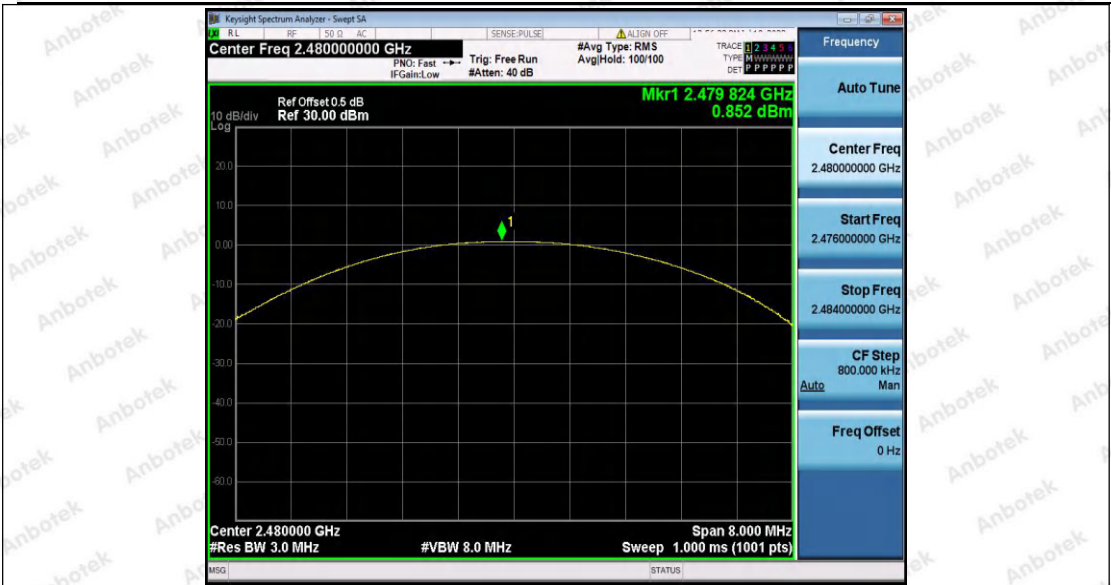
Test Graphs



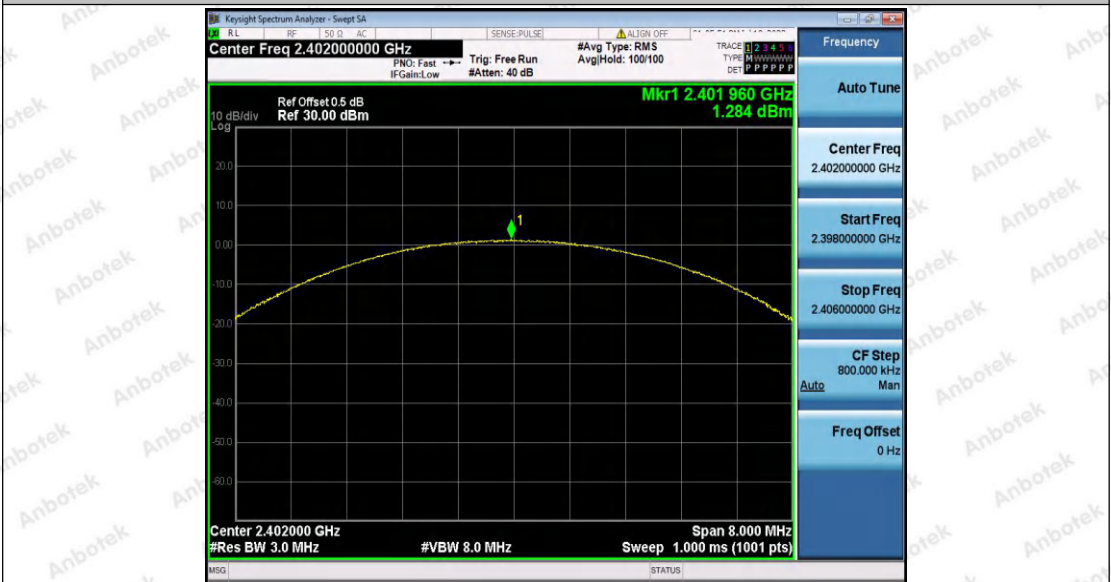
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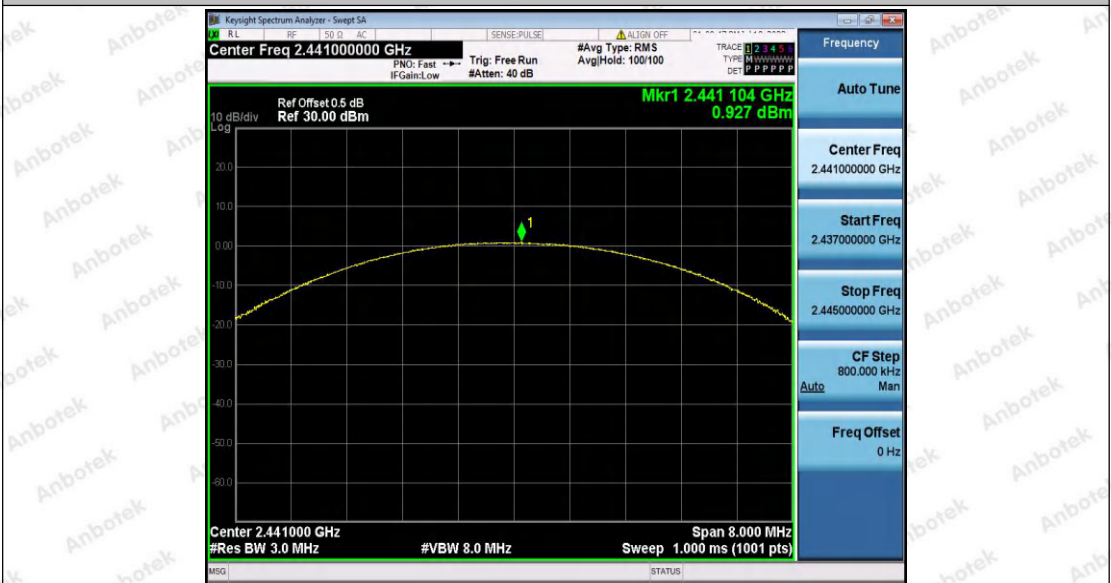
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2DH5_Ant1_2402



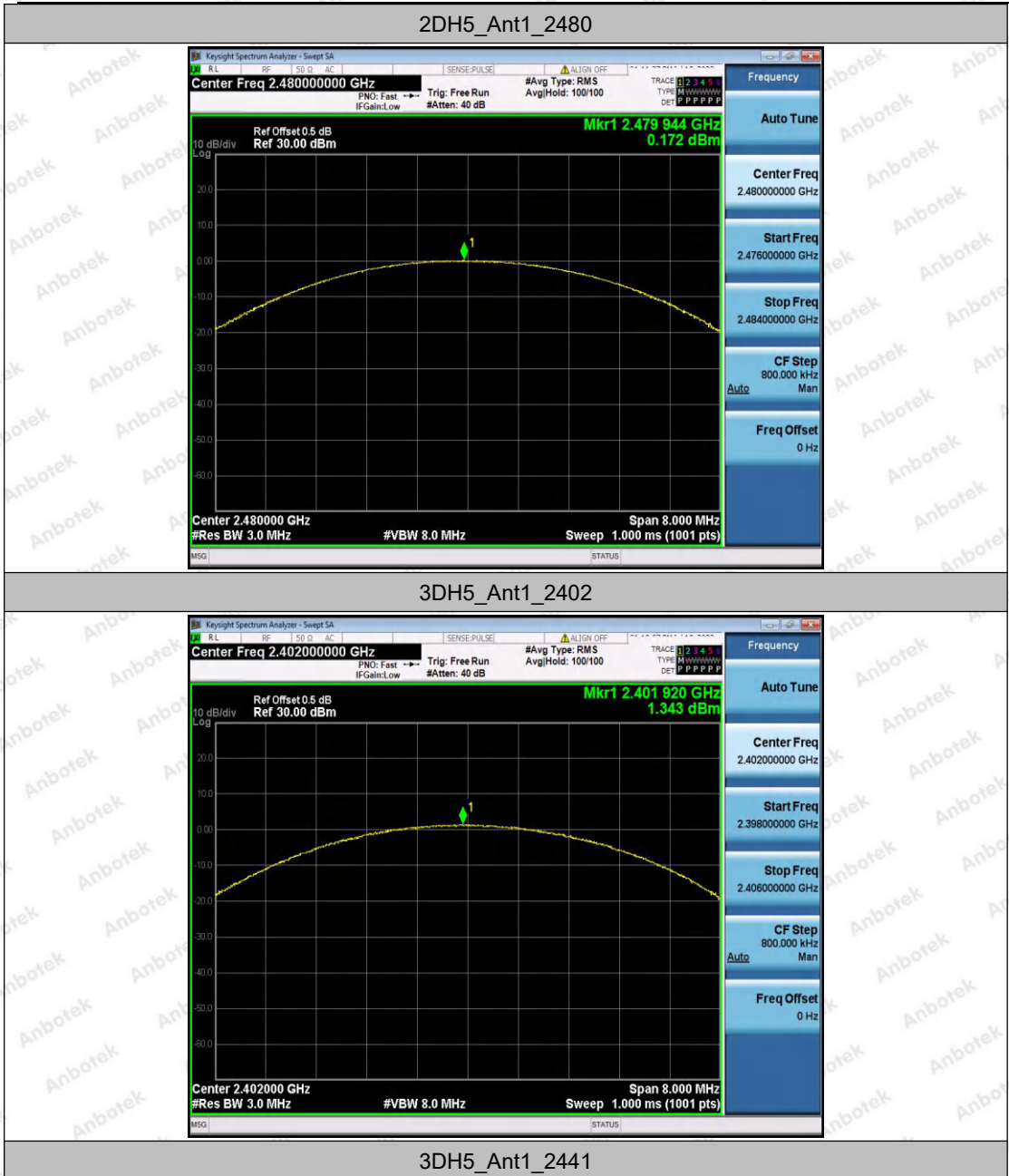
2DH5_Ant1_2441



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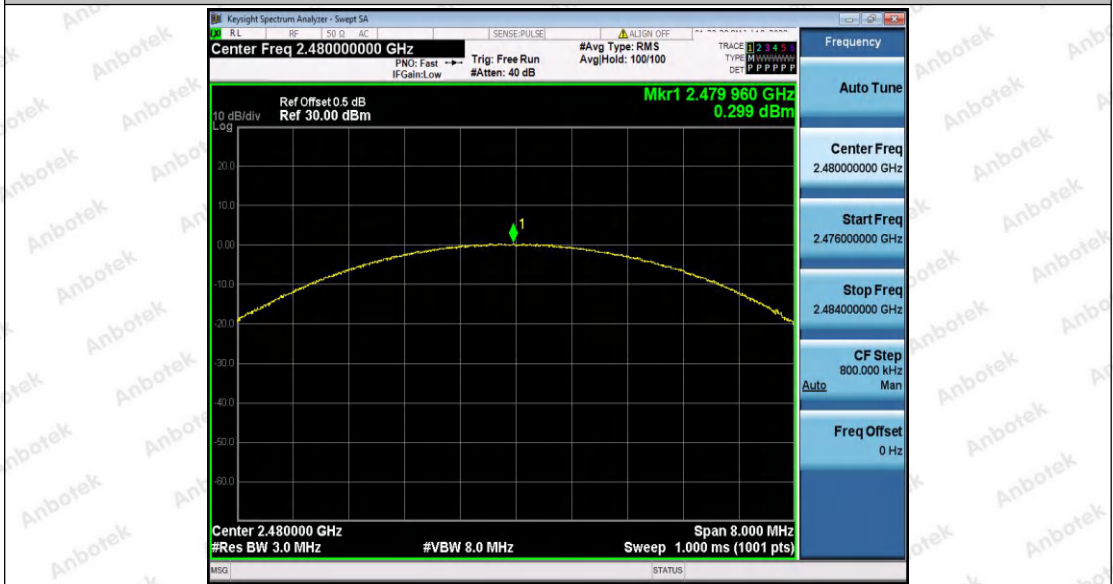
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3DH5_Ant1_2480



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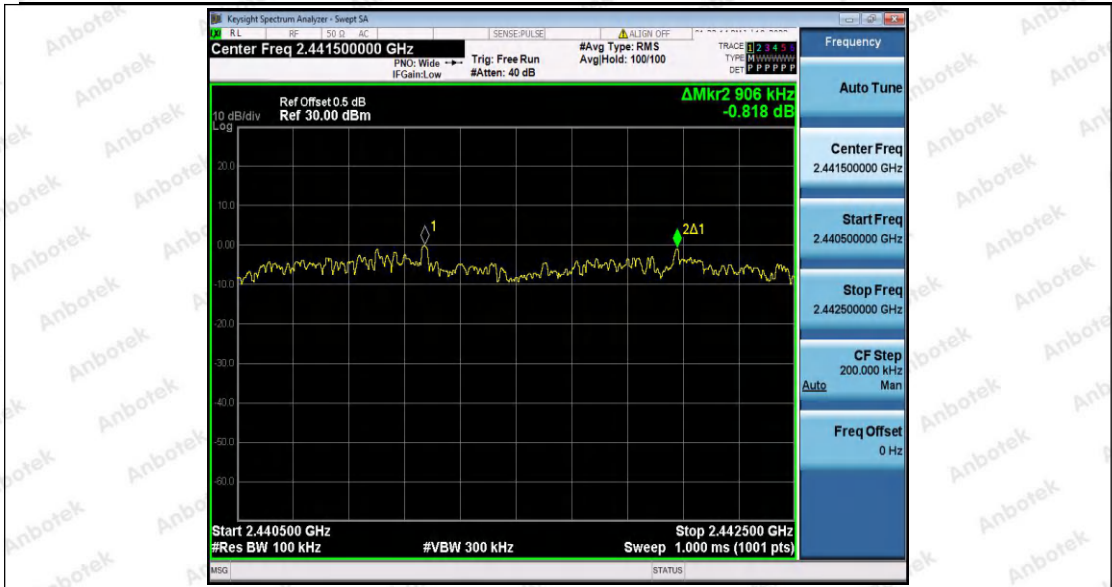
Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.31	≥ 0.951	PASS
2DH5	Ant1	Hop	1.058	≥ 0.882	PASS
3DH5	Ant1	Hop	0.906	≥ 0.872	PASS

Test Graphs





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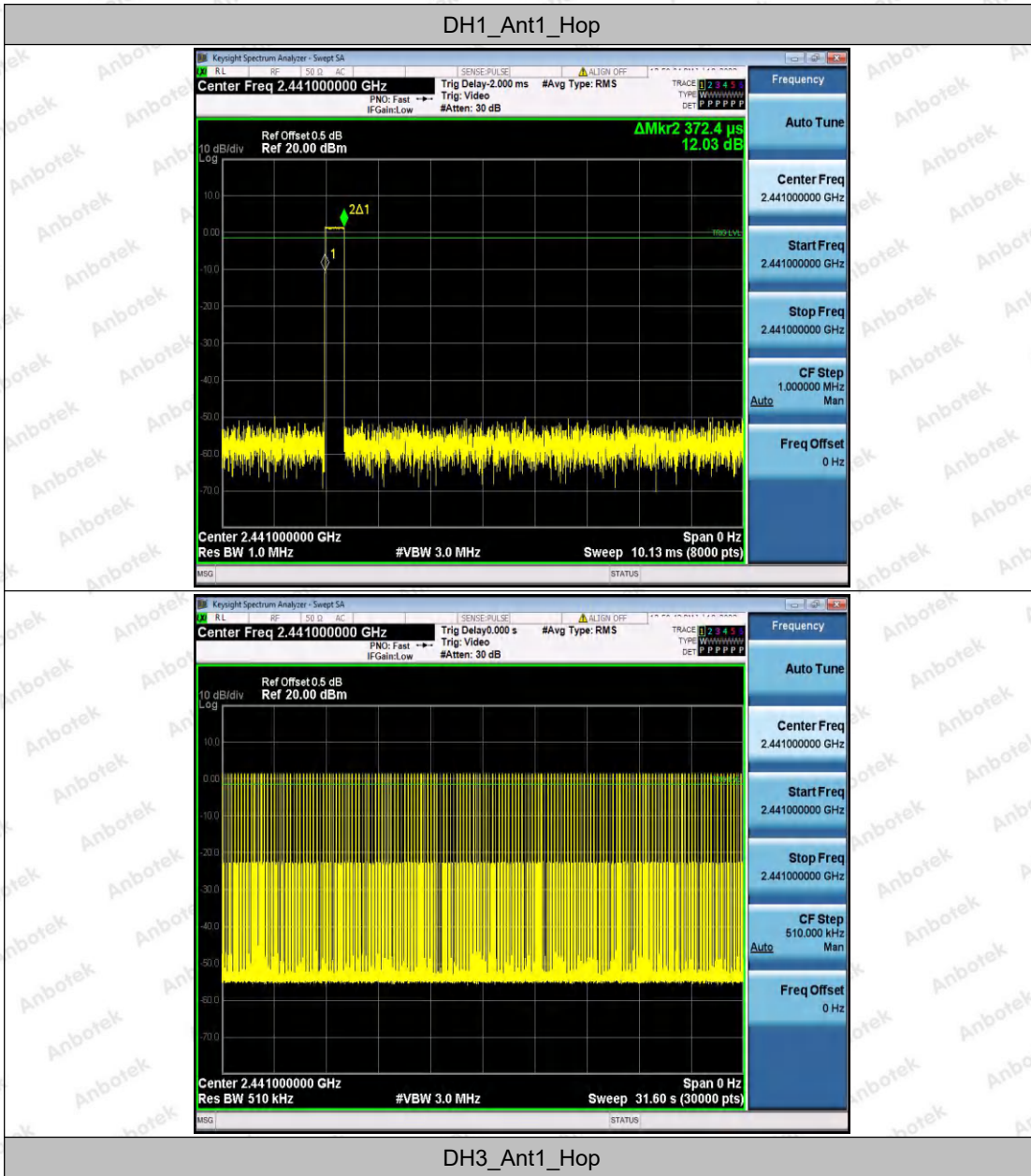
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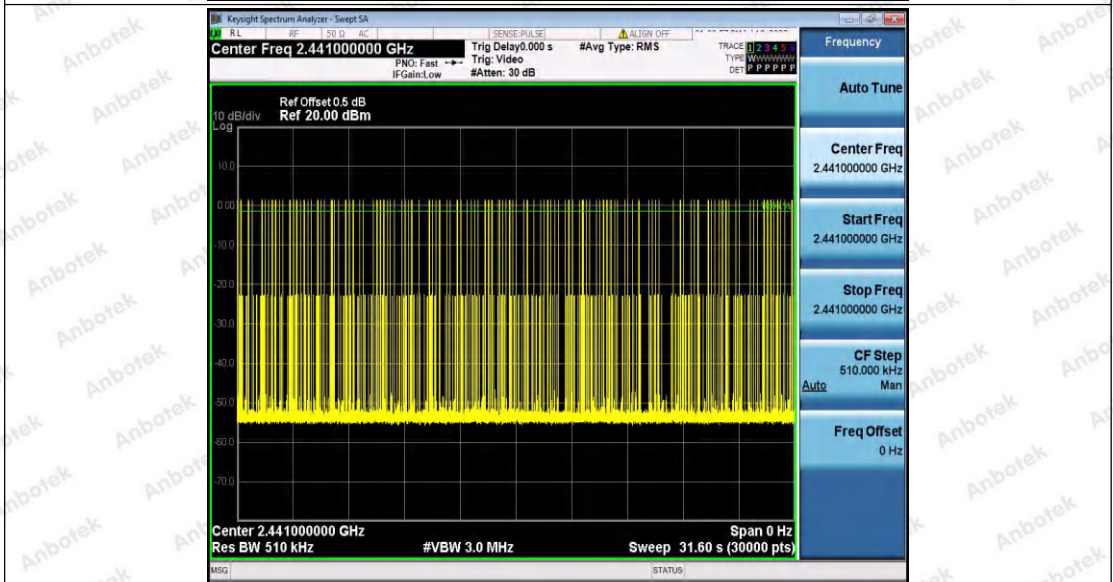
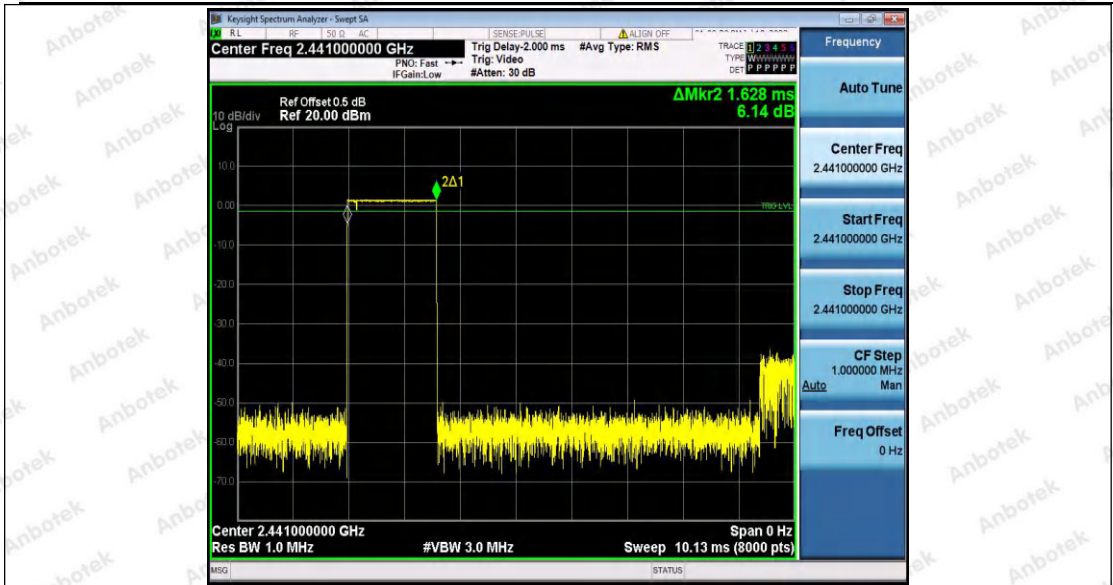
Appendix E: Time of occupancy

Test Result

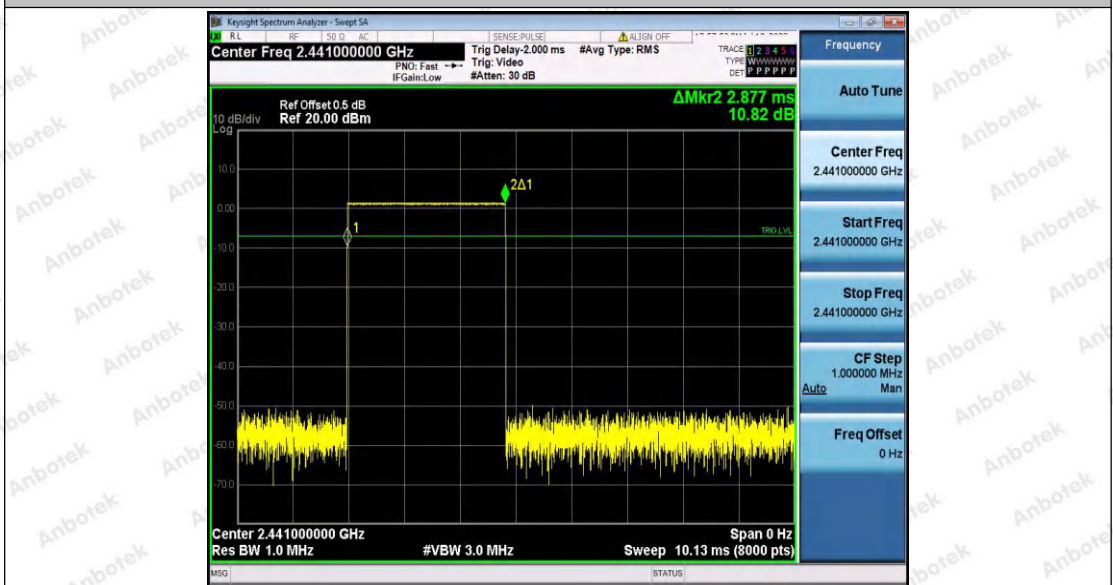
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	313	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	159	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.88	101	0.291	≤0.4	PASS
2DH1	Ant1	Hop	0.38	312	0.118	≤0.4	PASS
2DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
2DH5	Ant1	Hop	2.88	102	0.294	≤0.4	PASS
3DH1	Ant1	Hop	0.38	312	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
3DH5	Ant1	Hop	2.88	99	0.285	≤0.4	PASS

Test Graphs





DH5_Ant1_Hop

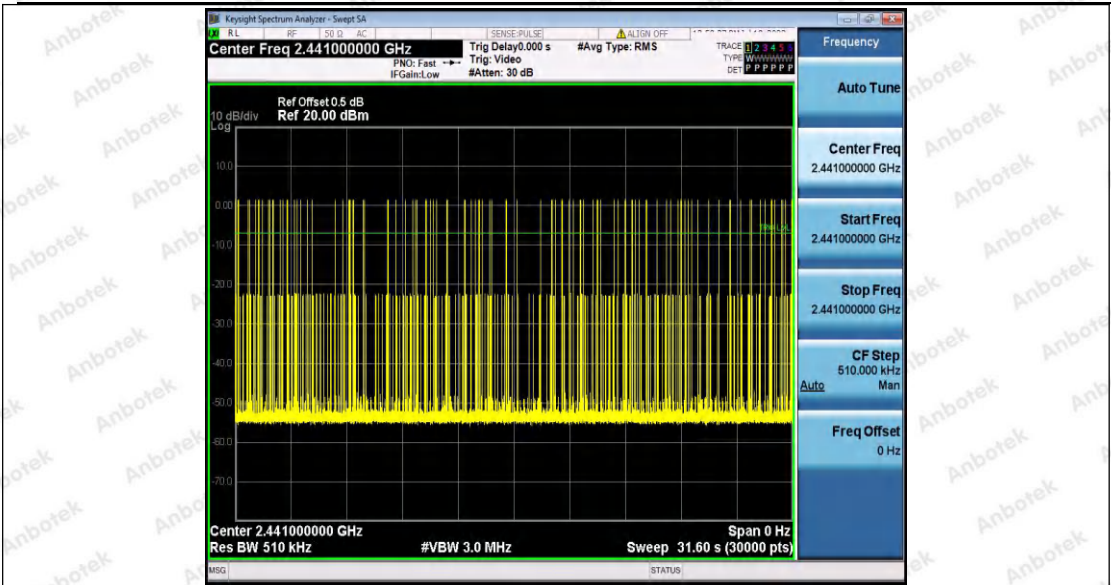


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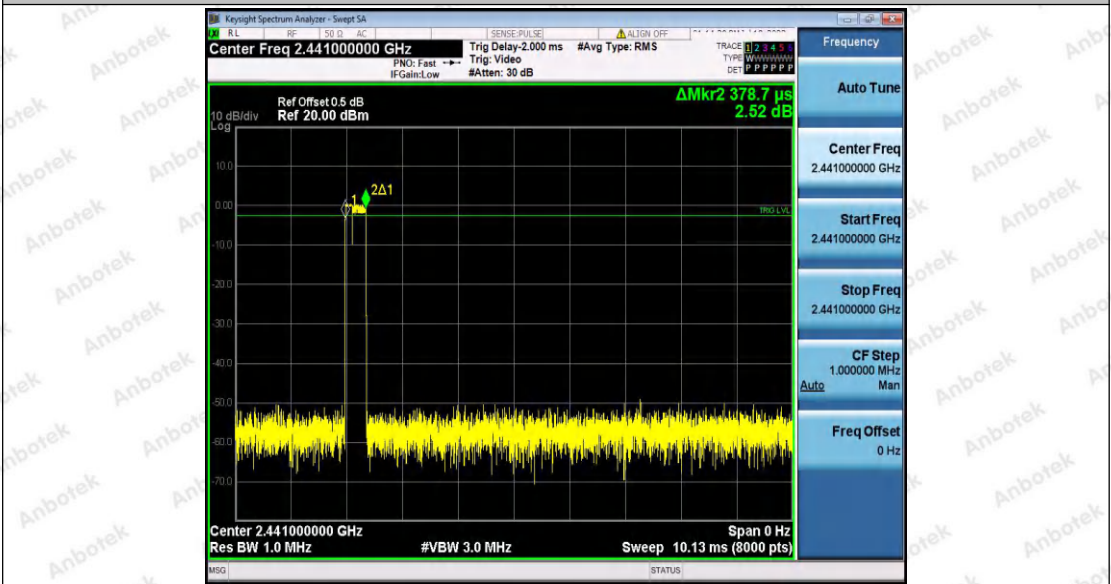
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2DH1_Ant1_Hop

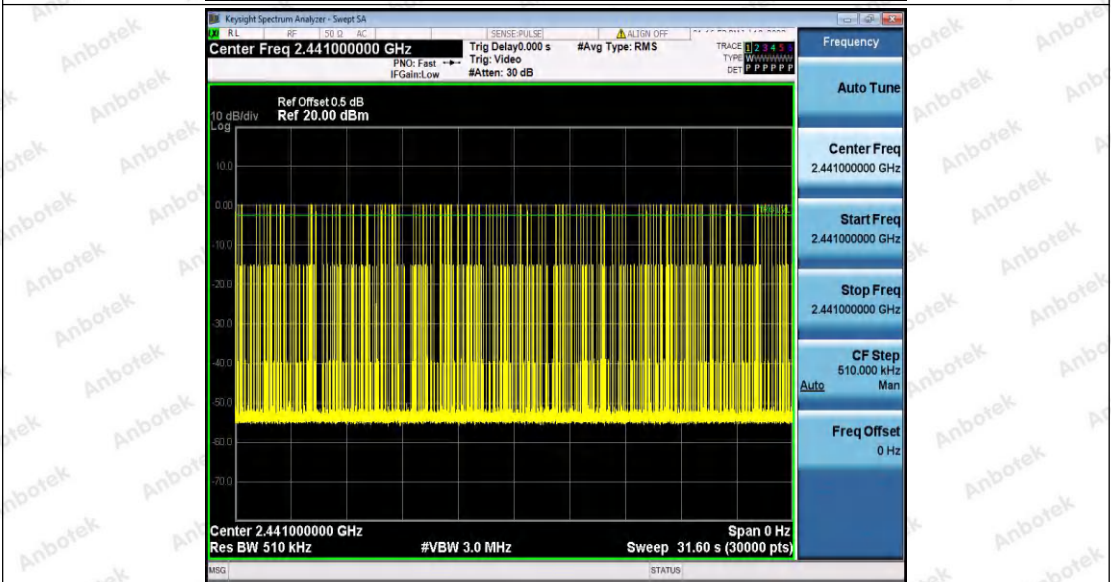
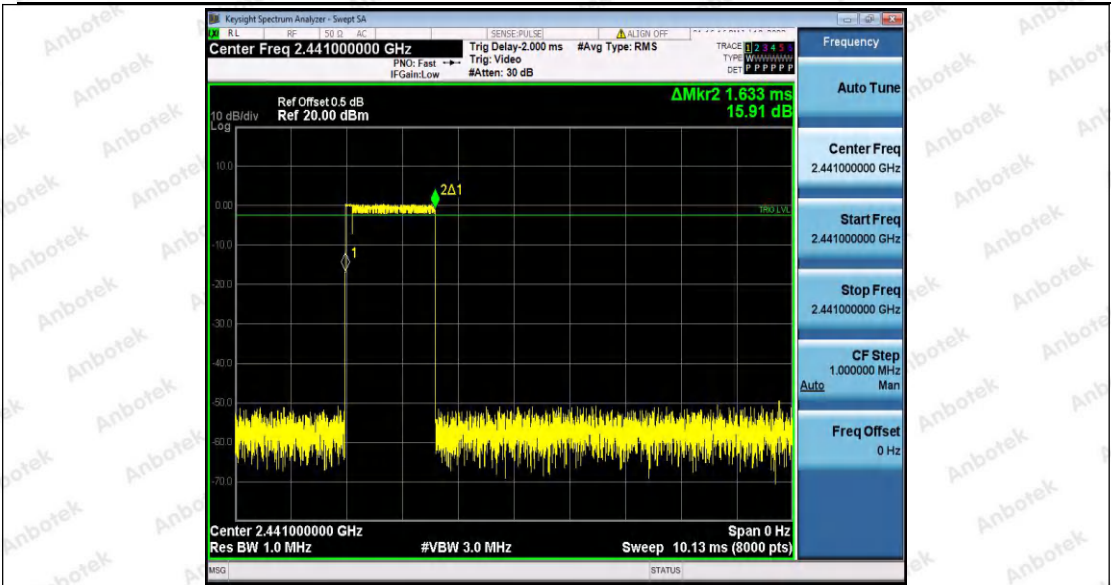


2DH3_Ant1_Hop

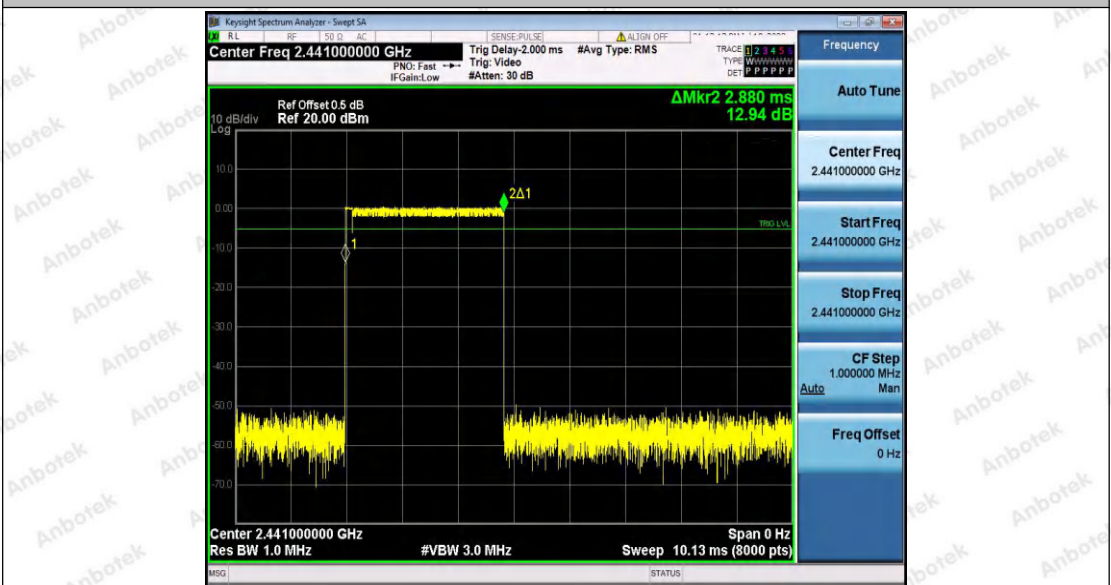
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2DH5_Ant1_Hop

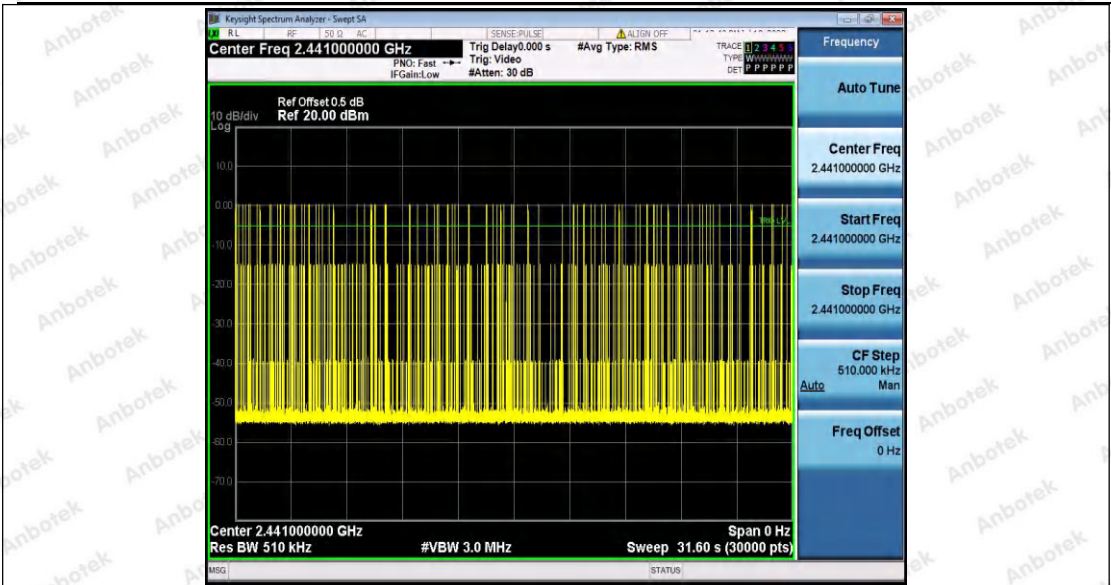


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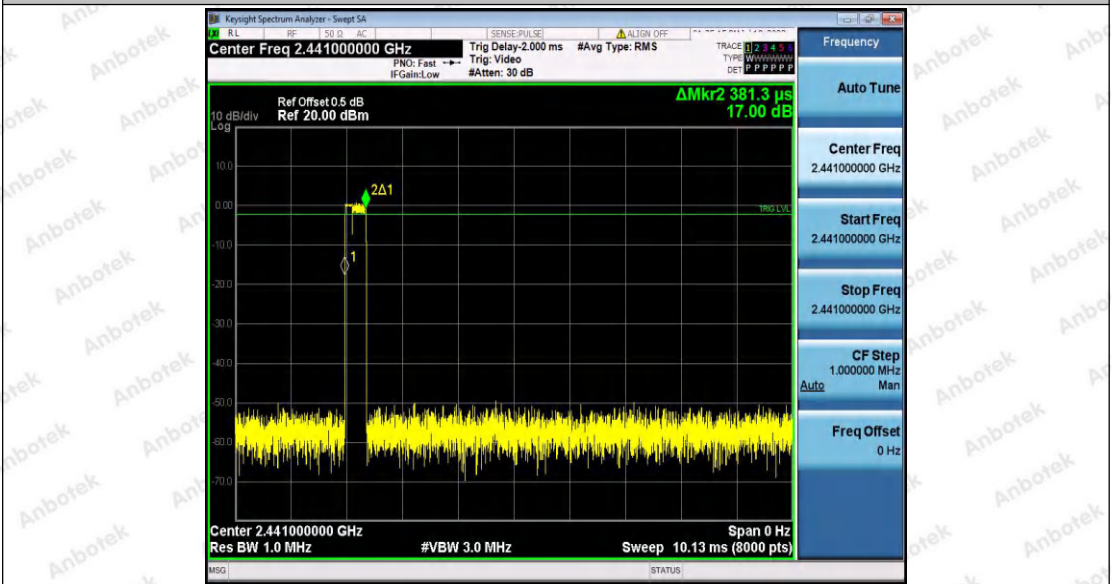
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3DH1_Ant1_Hop

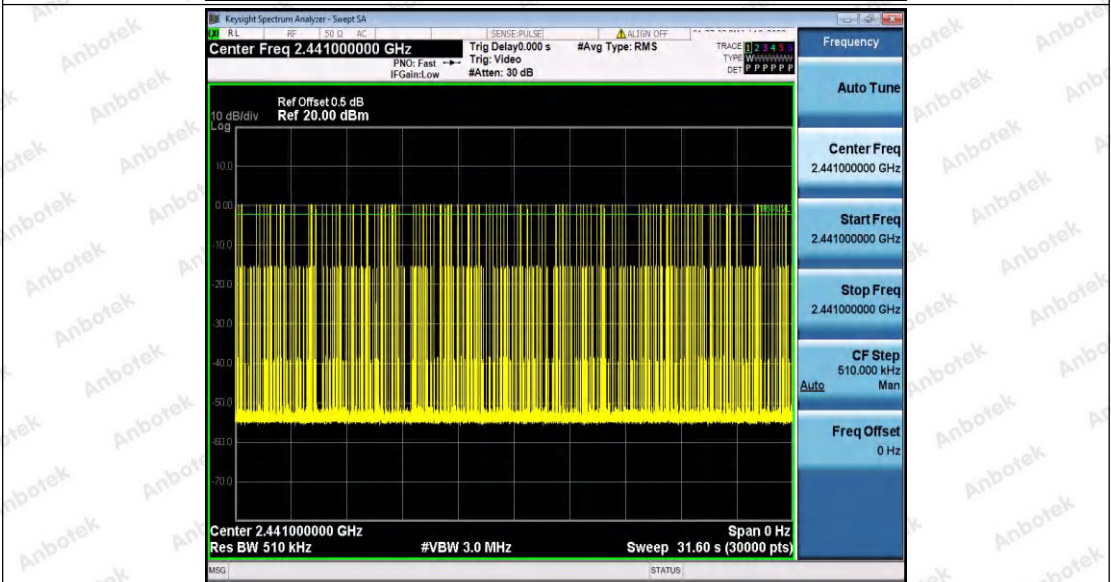
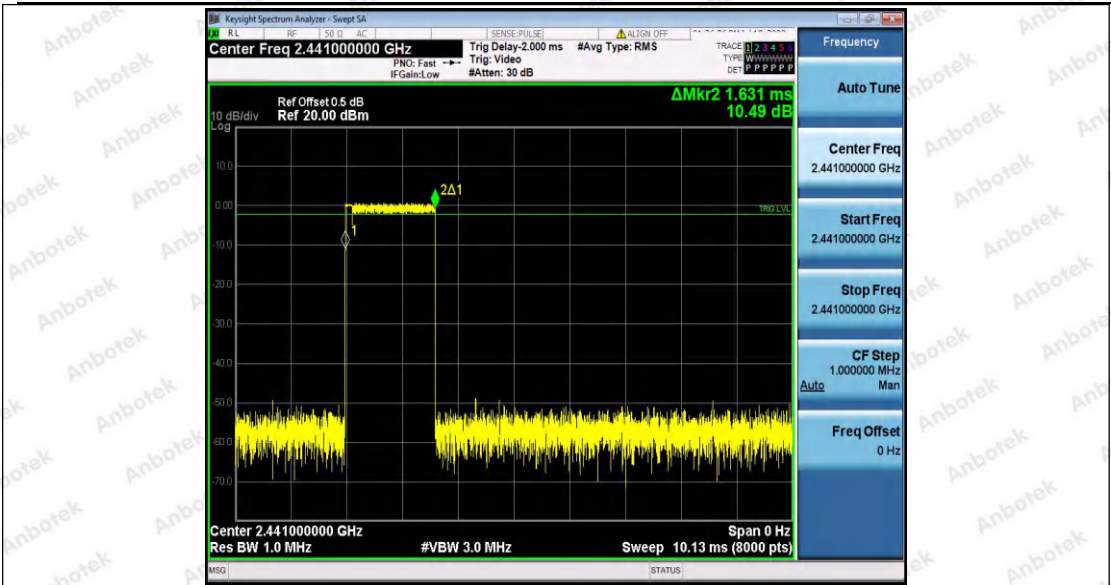


3DH3_Ant1_Hop

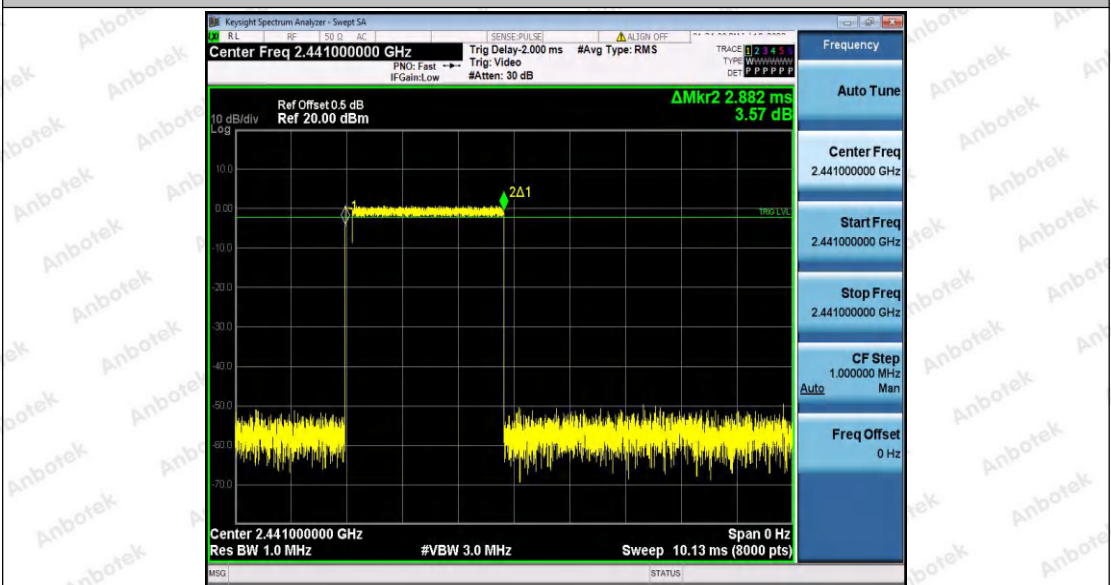
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3DH5_Ant1_Hop



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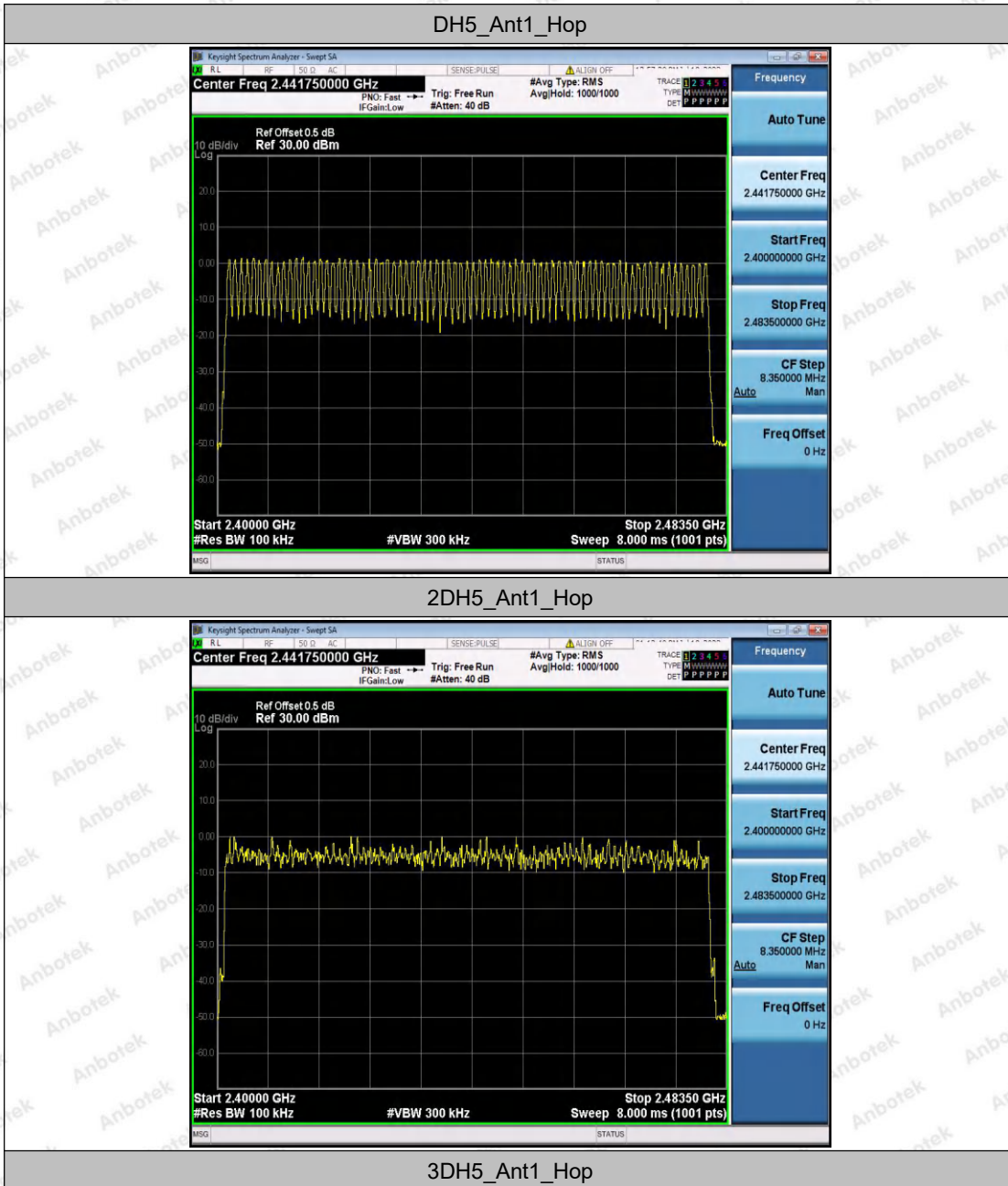
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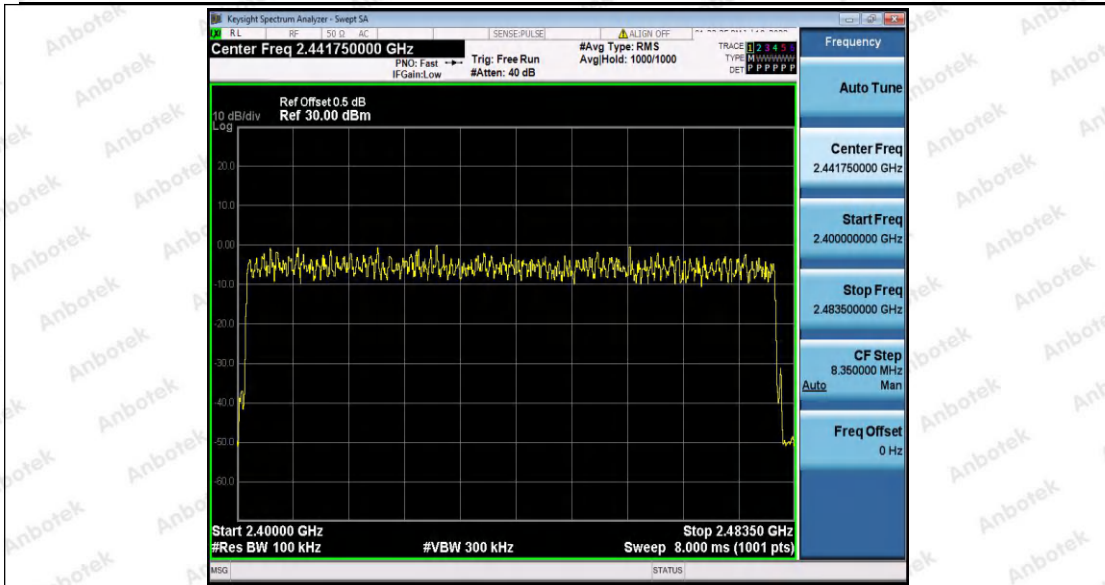
Appendix F: Number of hopping channels

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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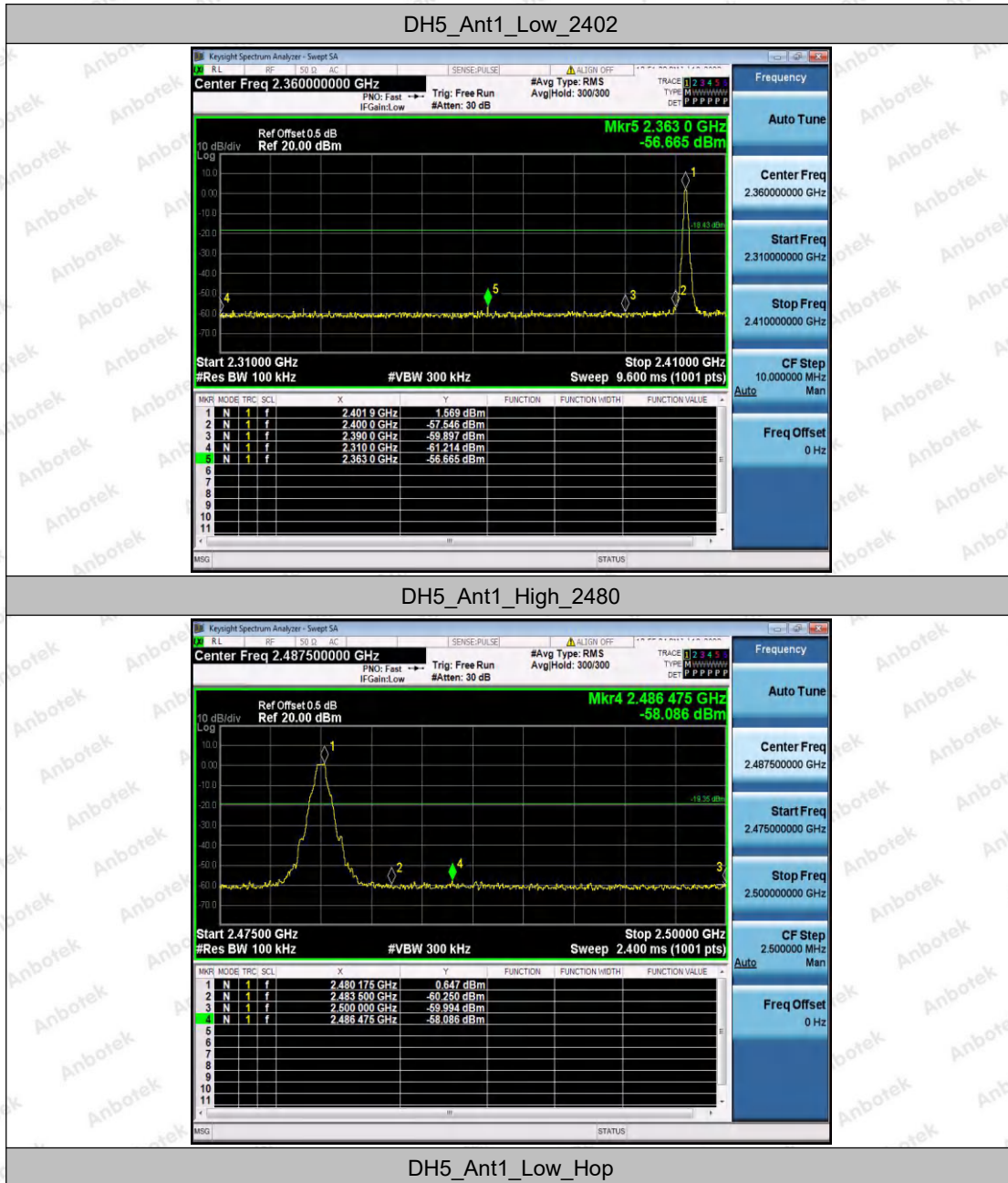
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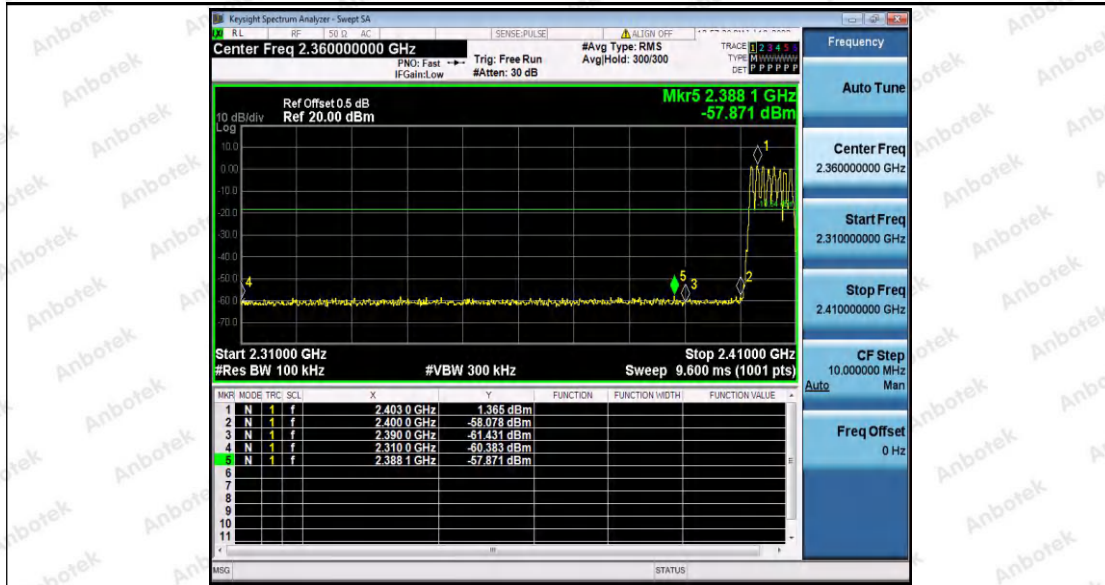
Appendix G: Band edge measurements

Test Result

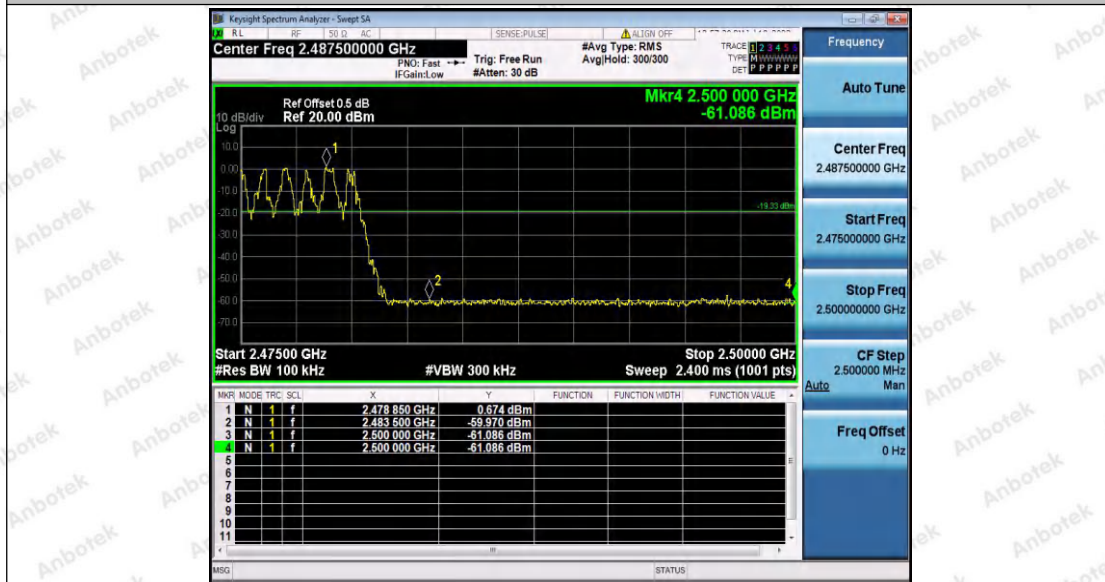
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.57	-56.67	≤-18.43	PASS
		High	2480	0.65	-58.09	≤-19.35	PASS
		Low	Hop	1.37	-57.87	≤-18.64	PASS
		High	Hop	0.67	-61.09	≤-19.33	PASS
2DH5	Ant1	Low	2402	0.18	-55.87	≤-19.82	PASS
		High	2480	-0.50	-57.27	≤-20.5	PASS
		Low	Hop	-1.55	-58.55	≤-21.55	PASS
		High	Hop	-2.01	-60.31	≤-22.01	PASS
3DH5	Ant1	Low	2402	0.43	-56.24	≤-19.57	PASS
		High	2480	-0.88	-58.19	≤-20.88	PASS
		Low	Hop	-2.36	-58.14	≤-22.36	PASS
		High	Hop	-0.42	-61.2	≤-20.42	PASS

Test Graphs

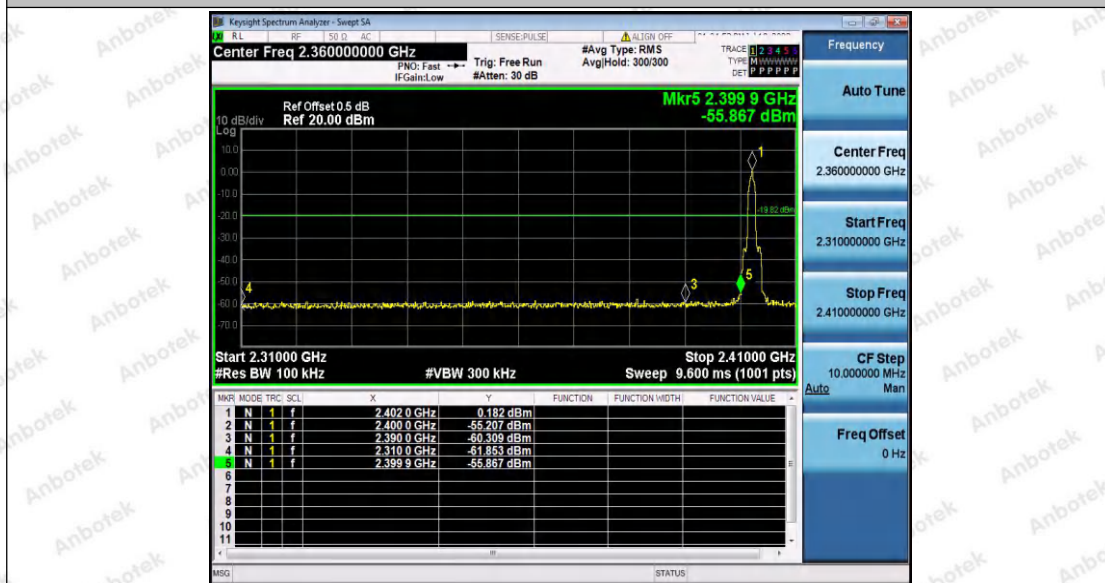




DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402

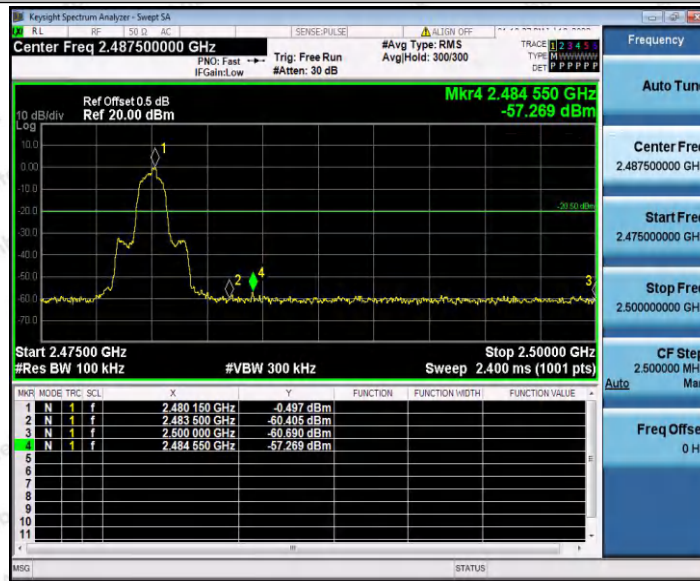


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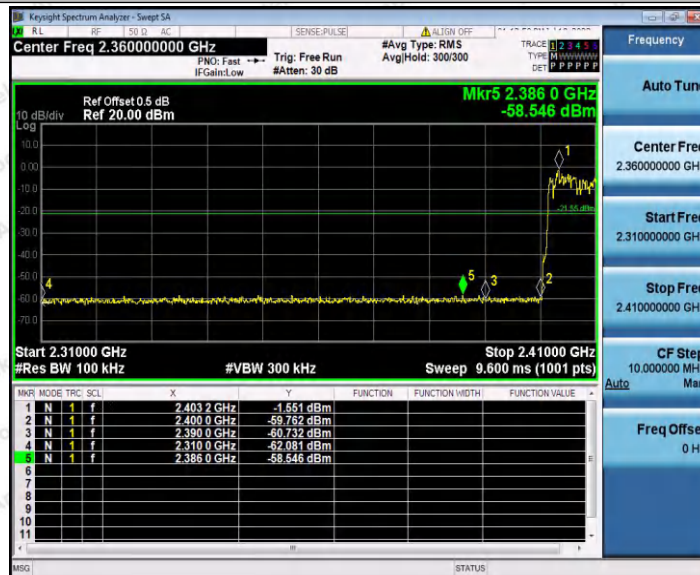
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



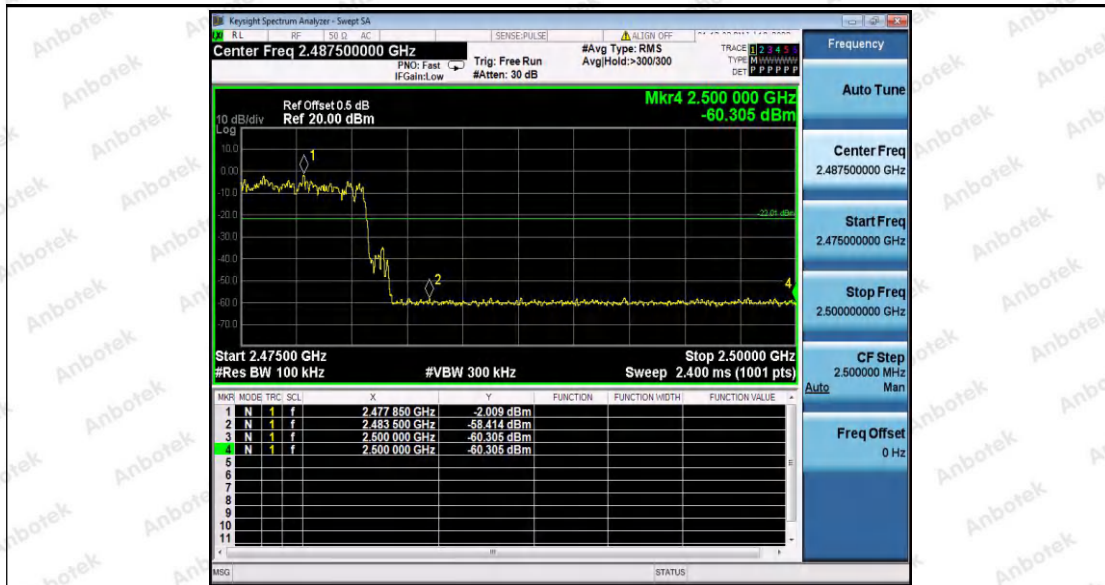
2DH5_Ant1_High_Hop

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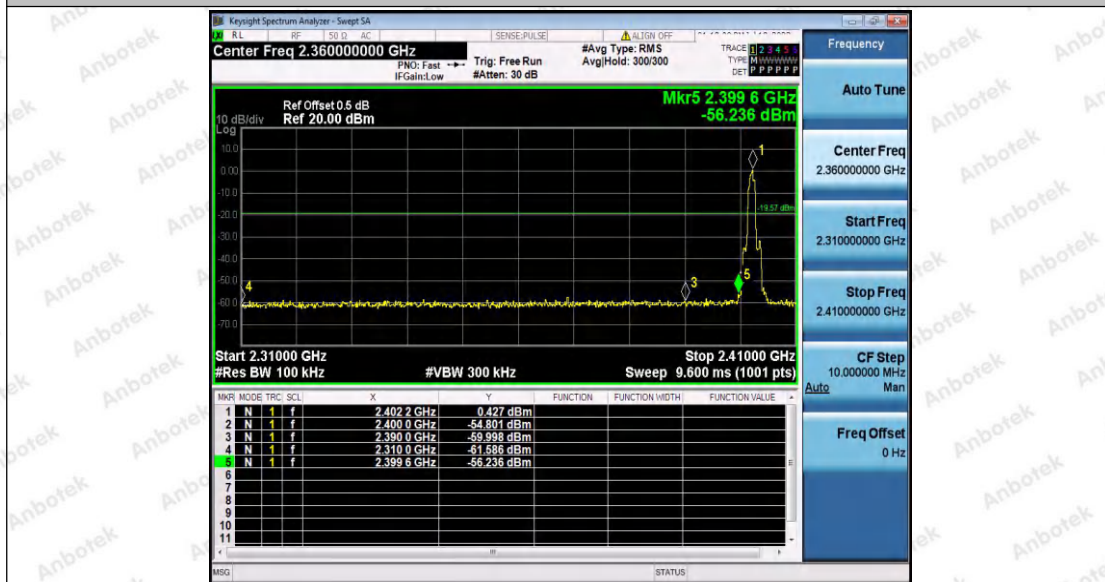
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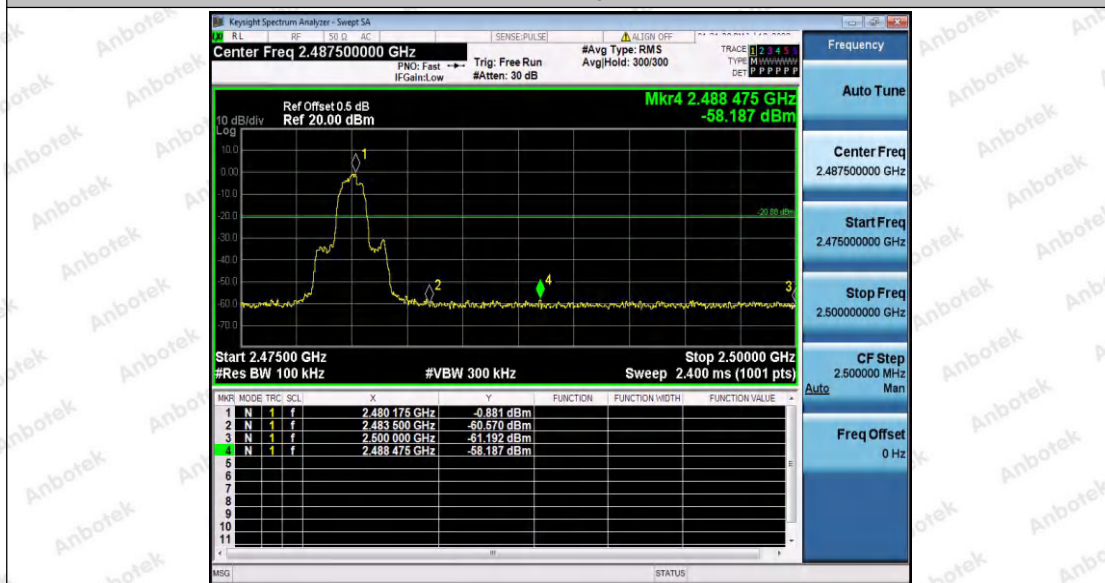
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



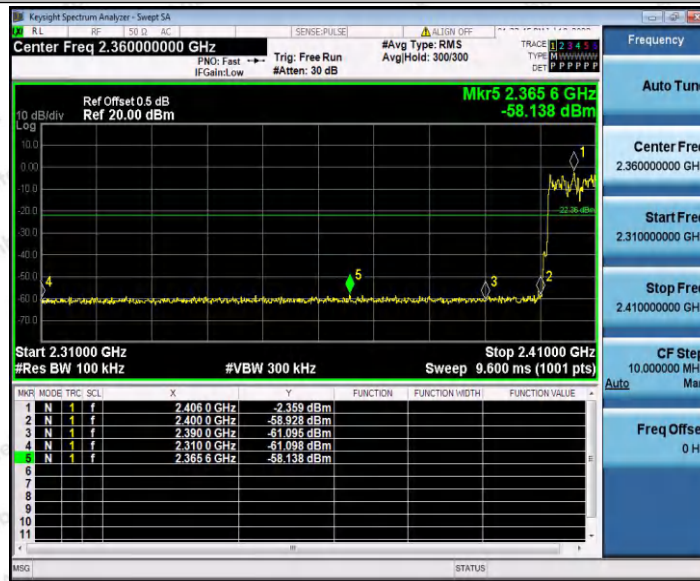
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3DH5_Ant1_Low_Hop



3DH5_Ant1_High_Hop



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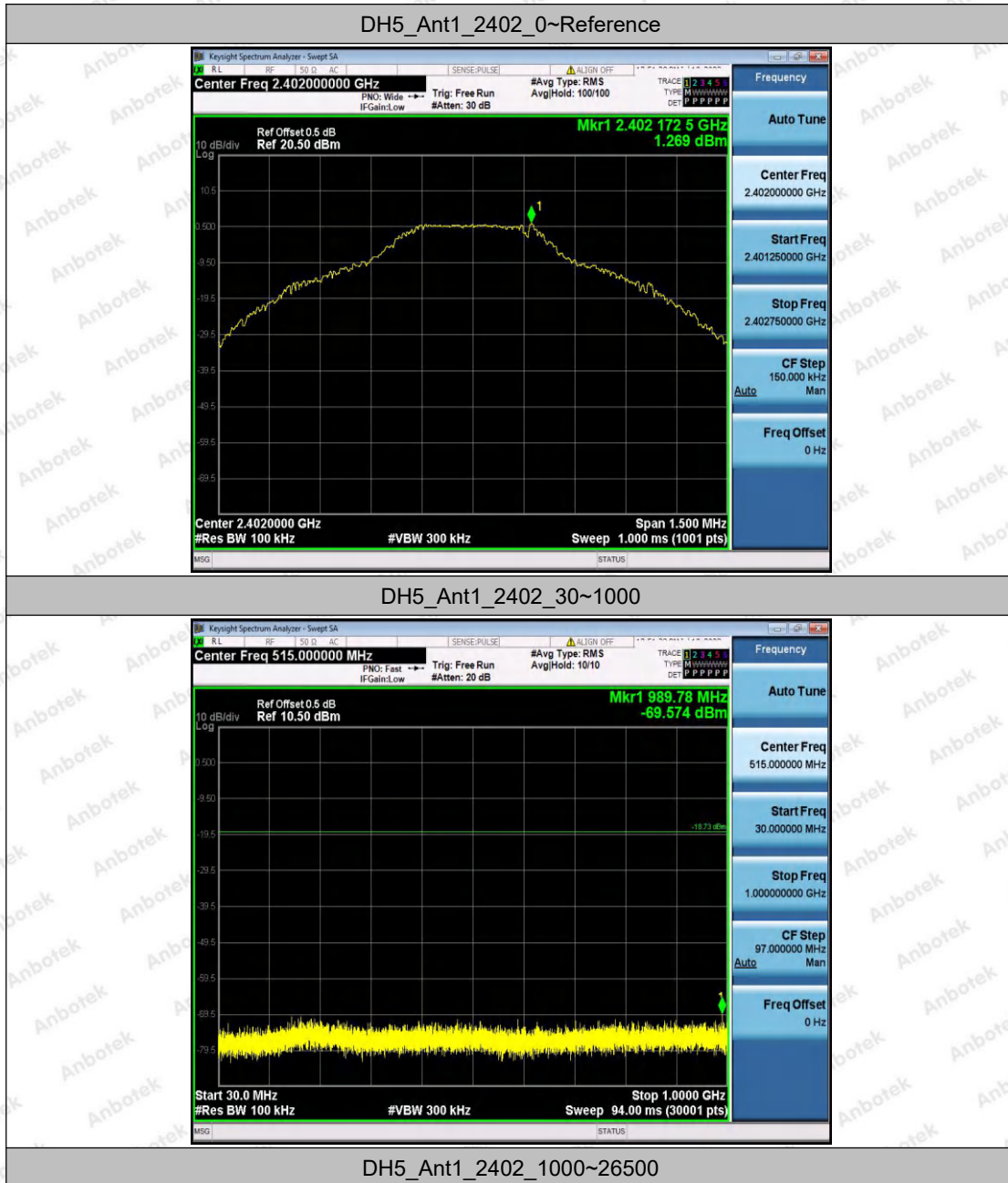
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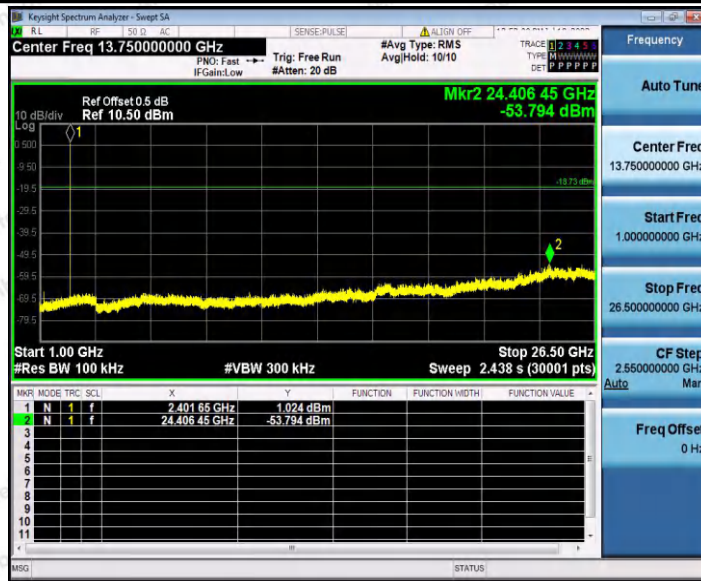
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.27	1.27	---	PASS
			30~1000	1.27	-69.57	≤-18.73	PASS
			1000~26500	1.27	-53.79	≤-18.73	PASS
		2441	Reference	1.06	1.06	---	PASS
			30~1000	1.06	-69.82	≤-18.94	PASS
			1000~26500	1.06	-53.78	≤-18.94	PASS
		2480	Reference	0.03	0.03	---	PASS
			30~1000	0.03	-69.8	≤-19.97	PASS
			1000~26500	0.03	-53.83	≤-19.97	PASS
2DH5	Ant1	2402	Reference	0.35	0.35	---	PASS
			30~1000	0.35	-69.39	≤-19.65	PASS
			1000~26500	0.35	-54.57	≤-19.65	PASS
		2441	Reference	0.07	0.07	---	PASS
			30~1000	0.07	-69.69	≤-19.93	PASS
			1000~26500	0.07	-54.7	≤-19.93	PASS
		2480	Reference	-1.29	-1.29	---	PASS
			30~1000	-1.29	-69.83	≤-21.29	PASS
			1000~26500	-1.29	-53.44	≤-21.29	PASS
3DH5	Ant1	2402	Reference	-0.07	-0.07	---	PASS
			30~1000	-0.07	-69.94	≤-20.07	PASS
			1000~26500	-0.07	-54.52	≤-20.07	PASS
		2441	Reference	-0.17	-0.17	---	PASS
			30~1000	-0.17	-70.17	≤-20.17	PASS
			1000~26500	-0.17	-53.96	≤-20.17	PASS
		2480	Reference	-1.41	-1.41	---	PASS
			30~1000	-1.41	-68.57	≤-21.41	PASS
			1000~26500	-1.41	-54.71	≤-21.41	PASS

Test Graphs

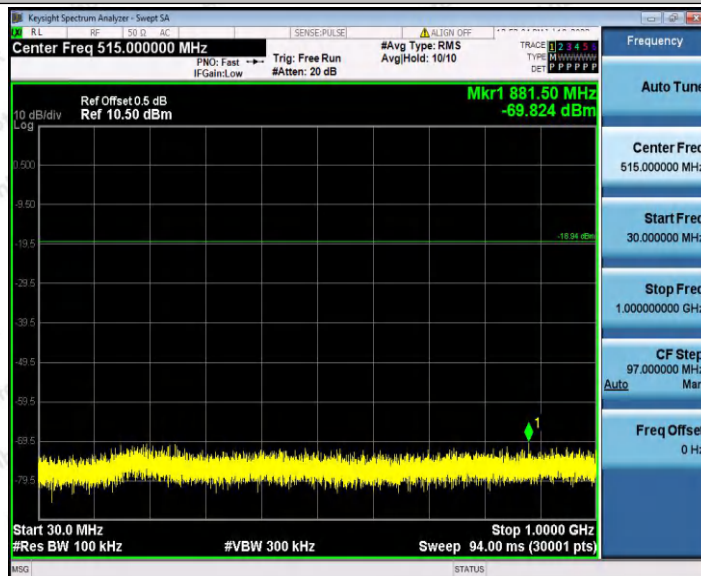




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



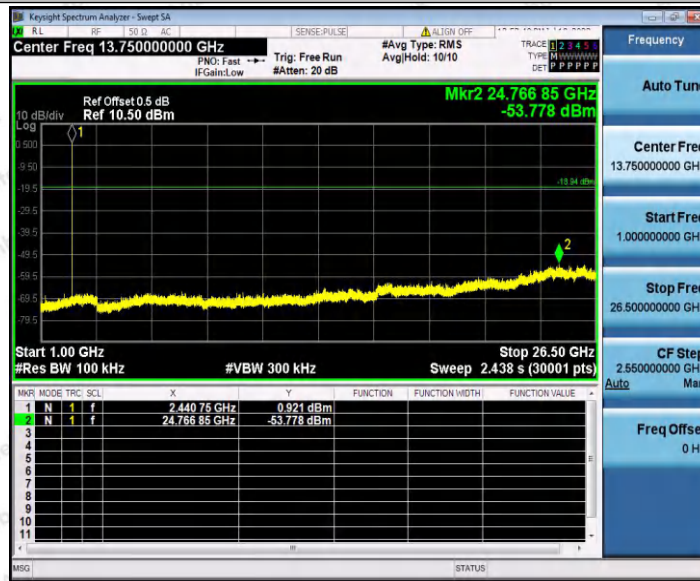
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



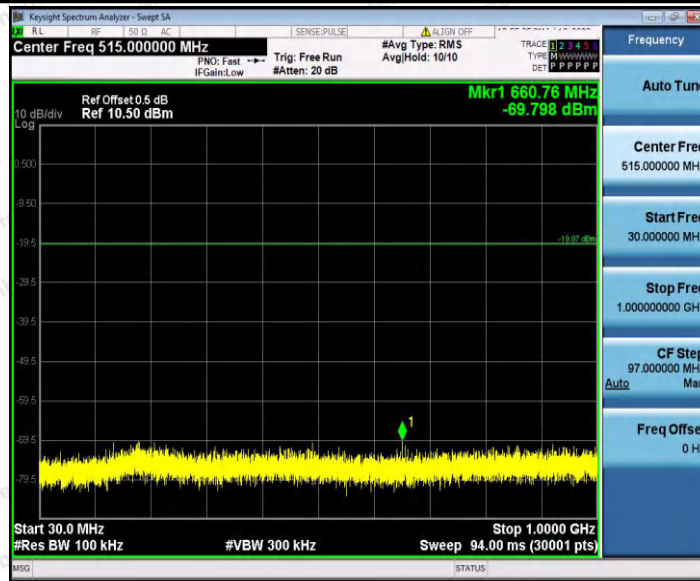
DH5_Ant1_2480_30~1000

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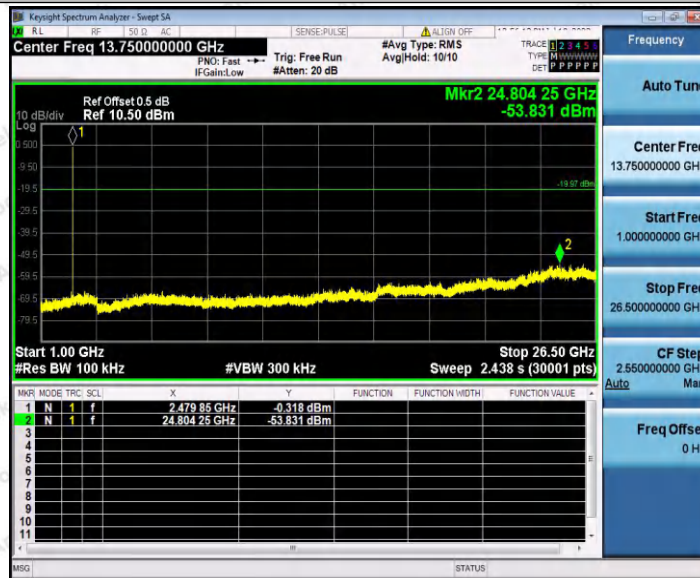
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

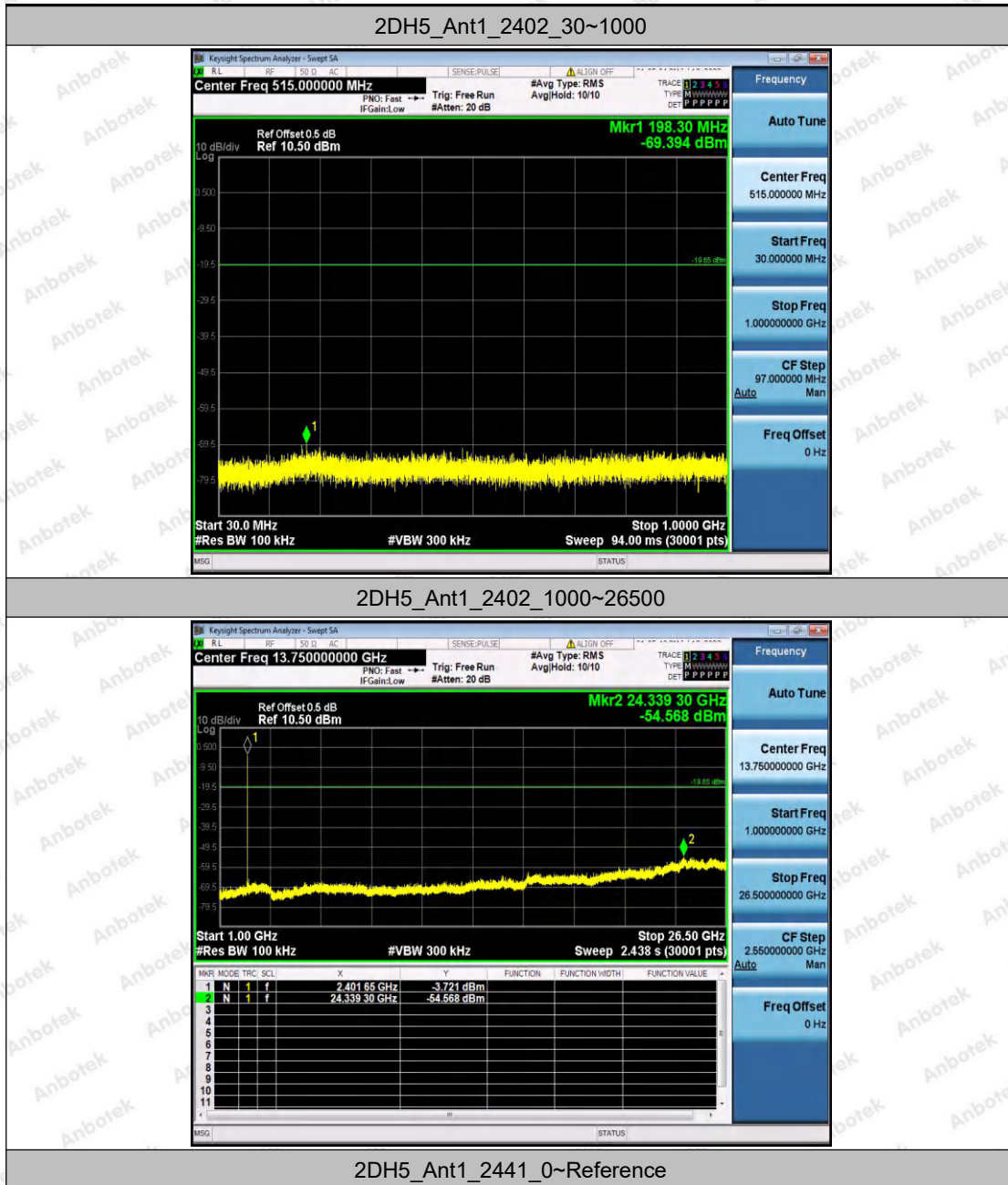


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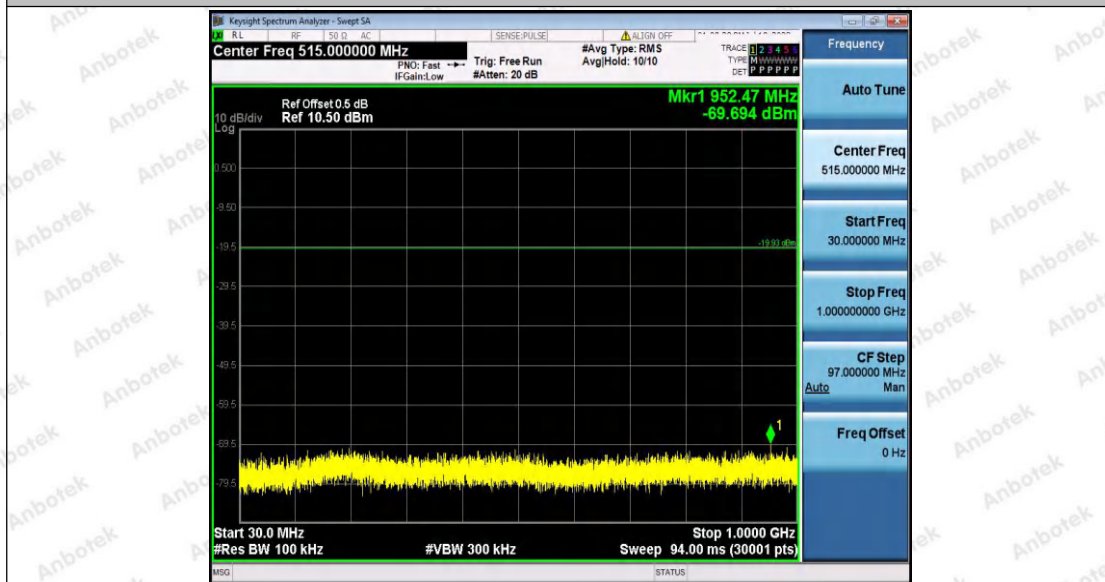
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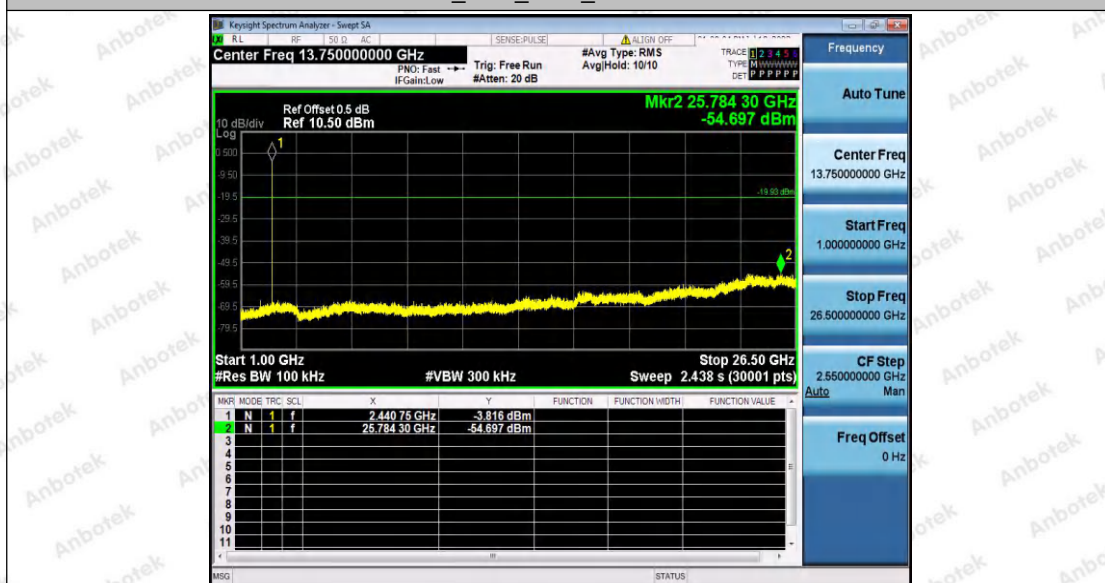
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

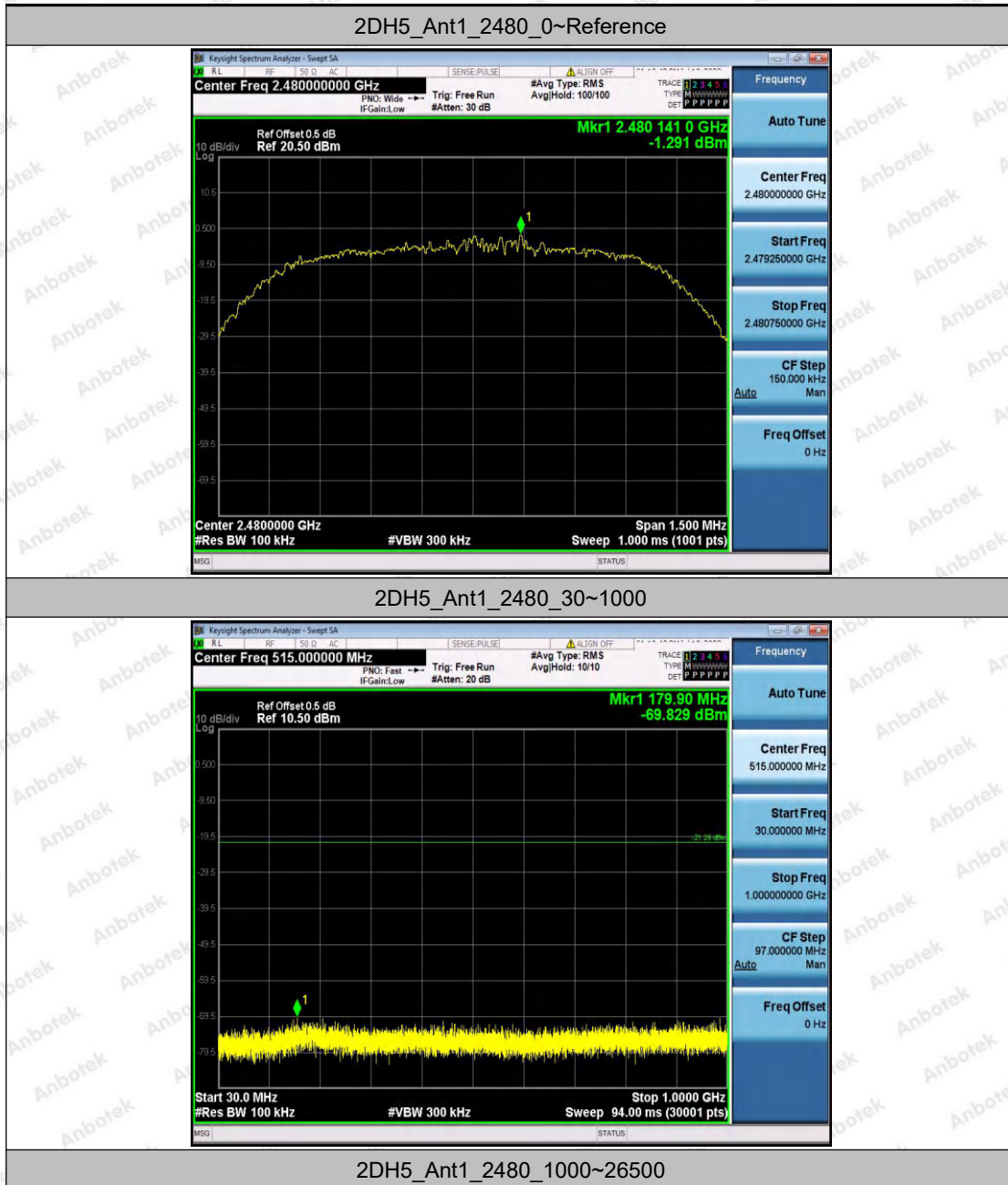


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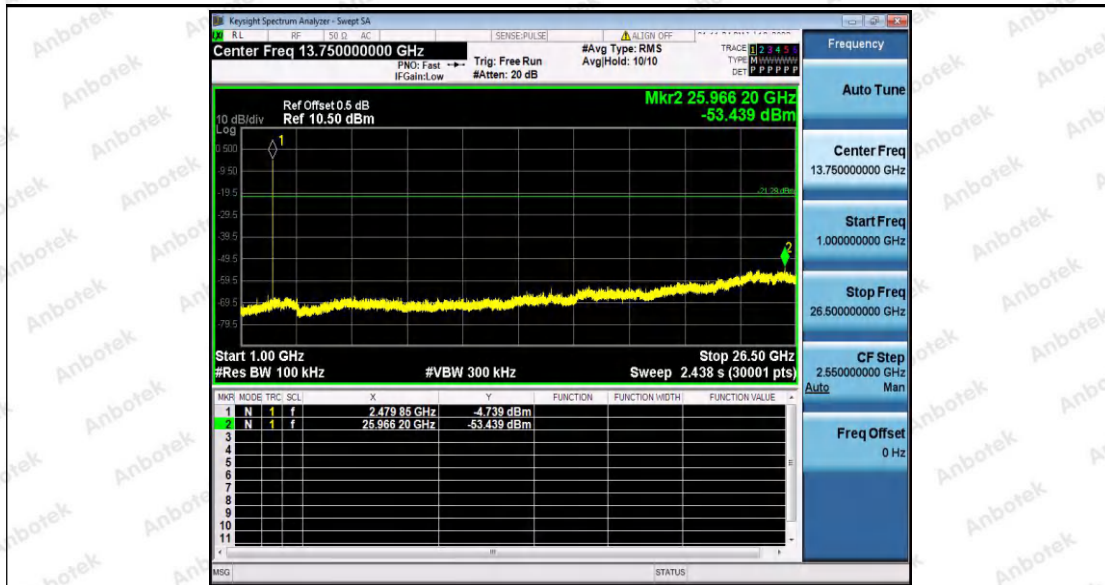


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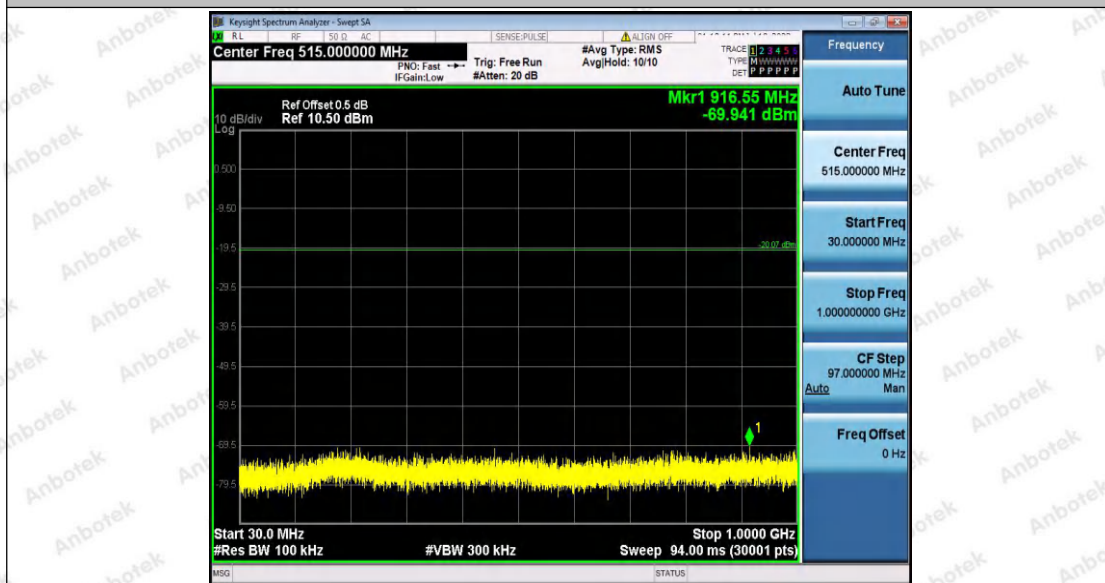
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



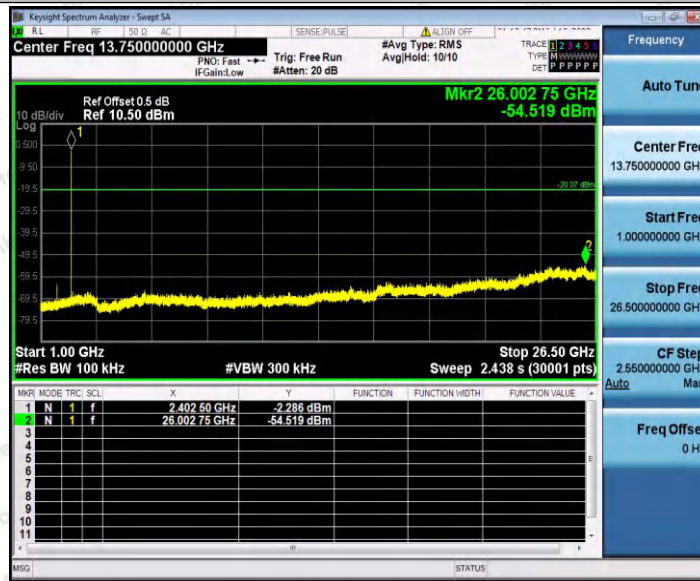
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



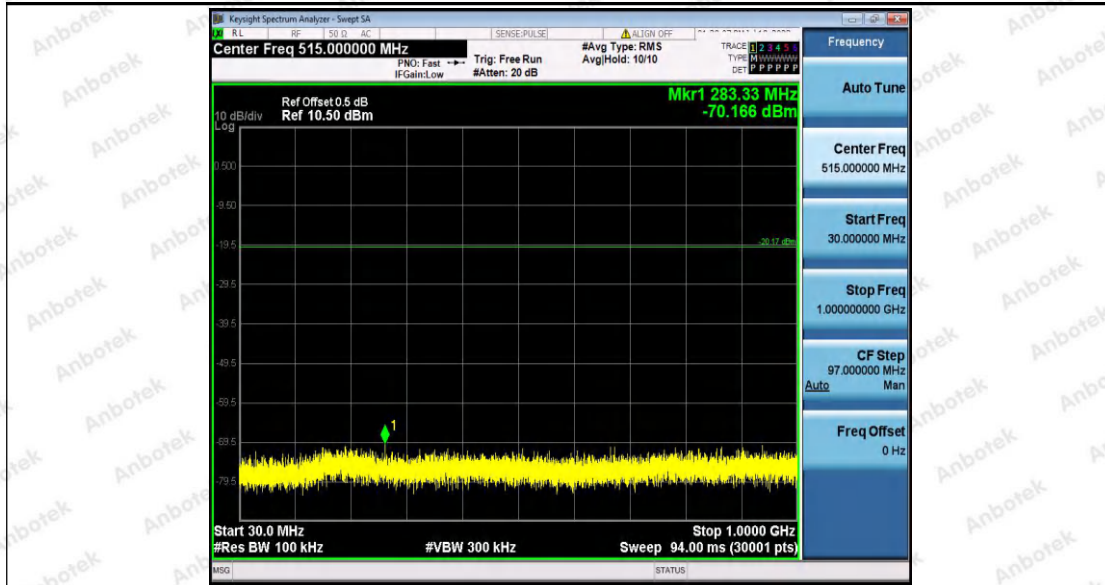
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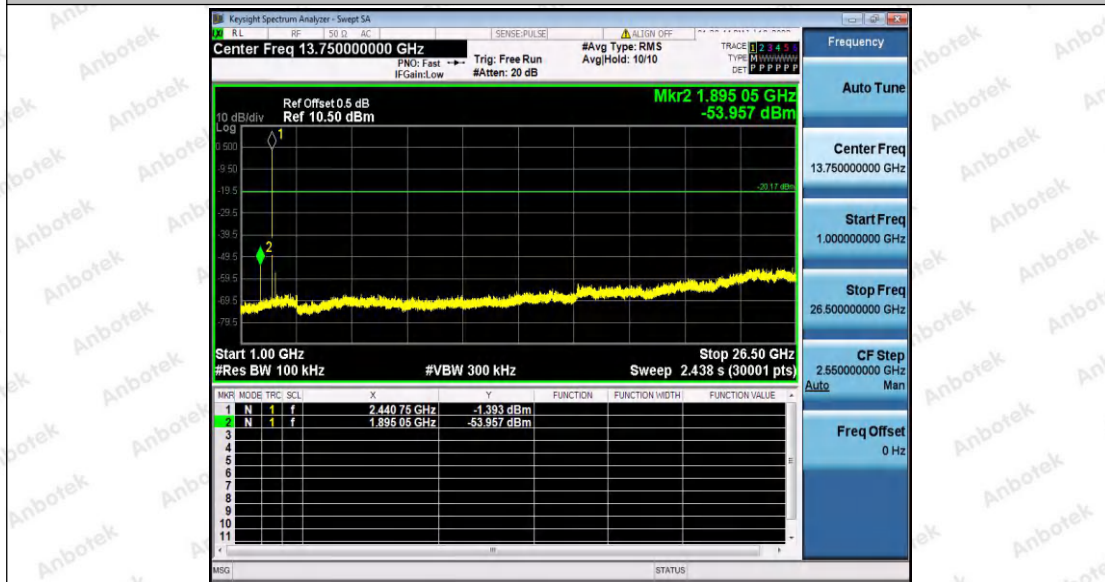
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

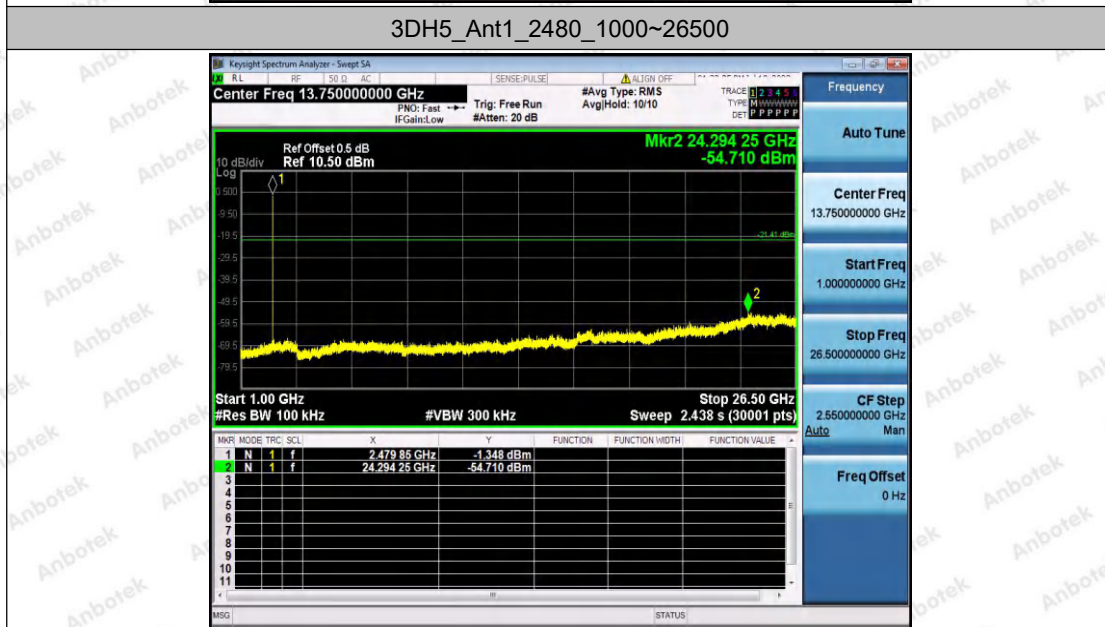
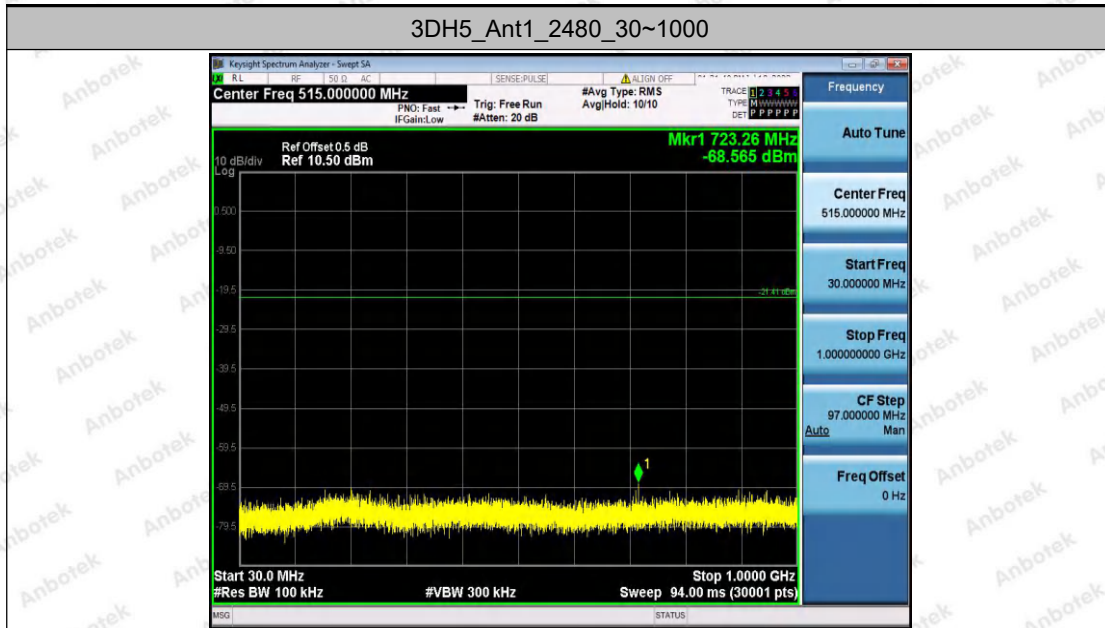


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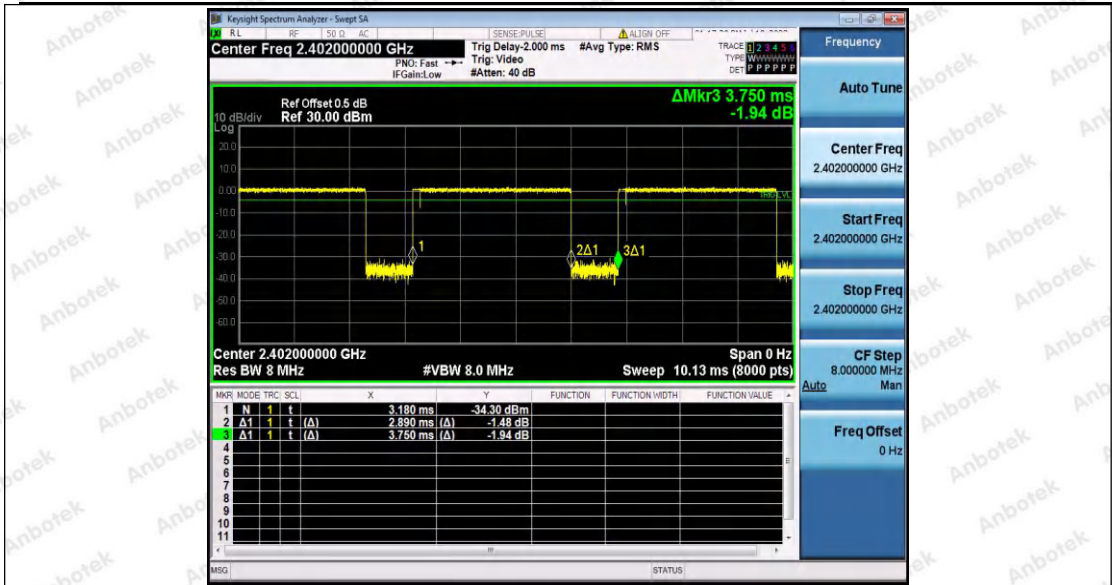
Appendix I: Duty Cycle

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	2.89	3.75	0.770 7	77.07	1.13	---	PASS

Test Graphs





---End---