

Appendix Test Data

Report No.:	18220WC20230701	Test Sample No.:	1-2-2
Start Test Date:	2022.9.27	Finish Test Date:	2022.10.8
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	27.3℃	Relative Humidity:	47 %
Pressure:	1012 hPa		

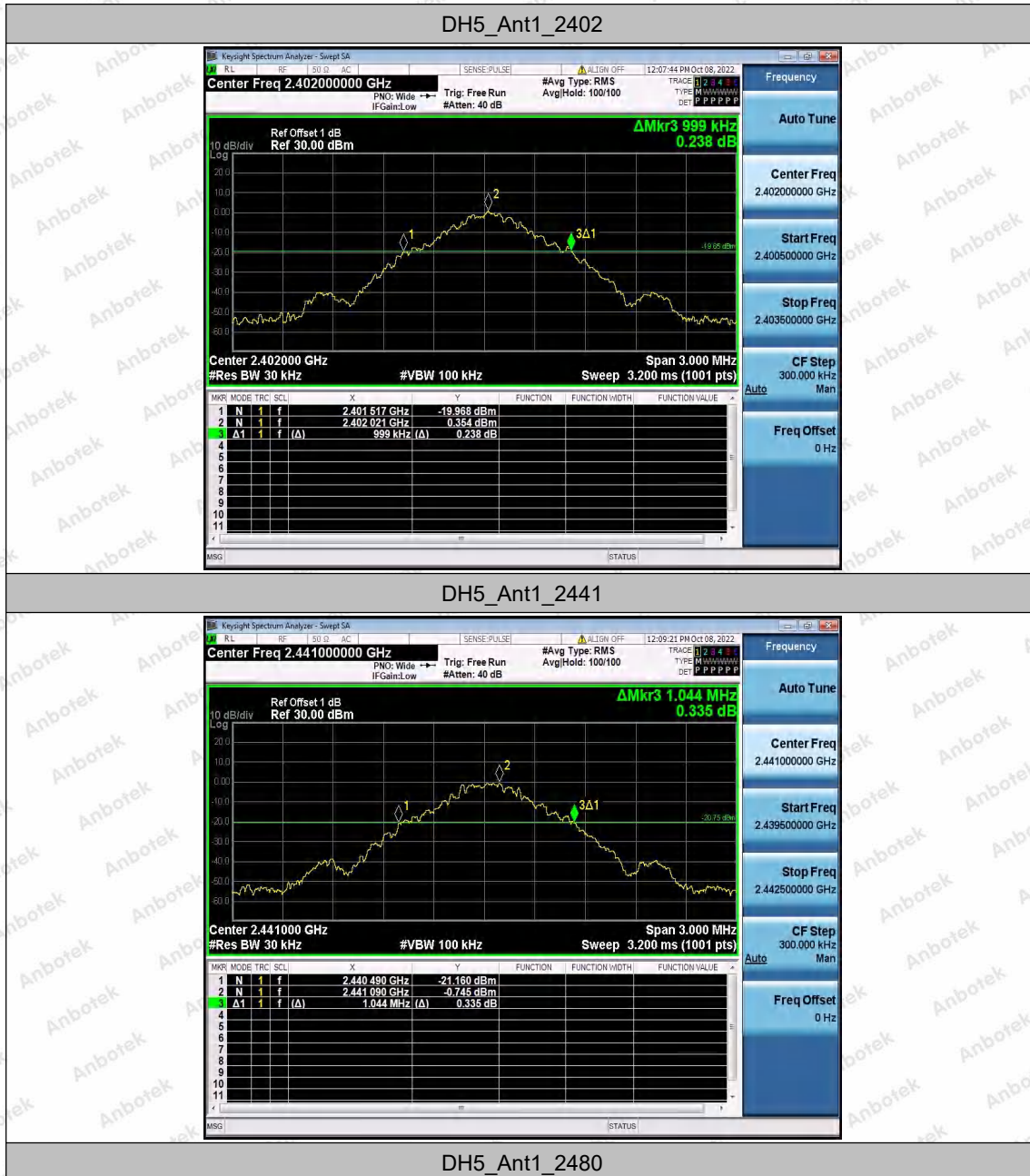
Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]
DH5	Ant1	2402	0.999	2401.517	2402.516
		2441	1.044	2440.490	2441.534
		2480	1.017	2479.514	2480.531
2DH5	Ant1	2402	1.275	2401.409	2402.684
		2441	1.311	2440.376	2441.687
		2480	1.314	2479.373	2480.687



Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441

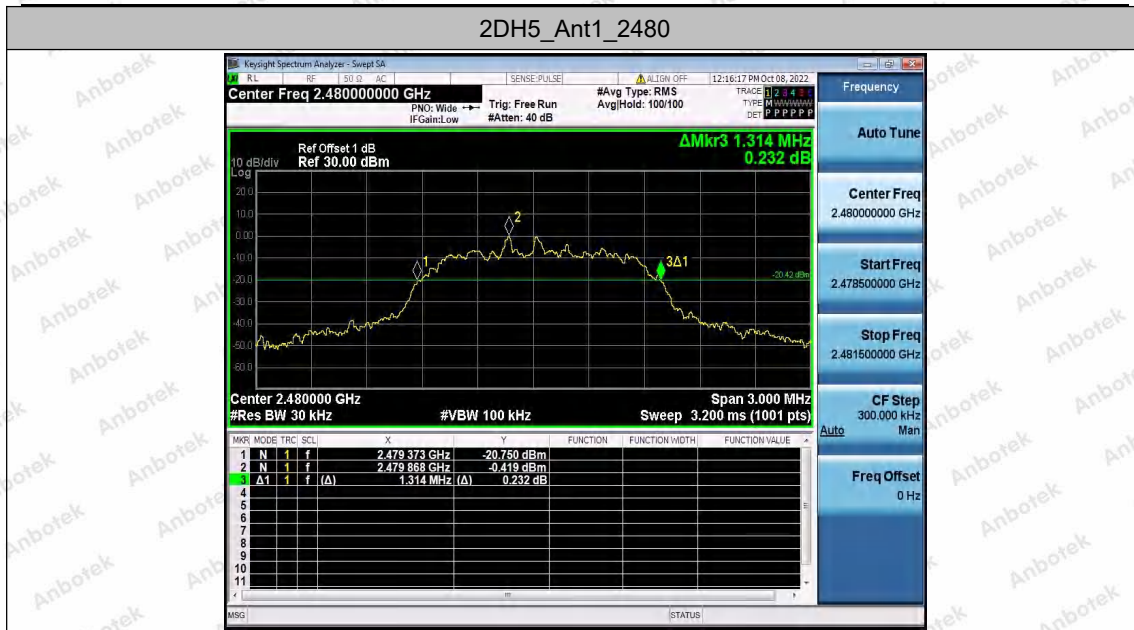


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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
DH5	Ant1	2402	0.88965	2401.5856	2402.4752
		2441	0.90717	2440.5792	2441.4864
		2480	0.90494	2479.5777	2480.4826
2DH5	Ant1	2402	1.1996	2401.4339	2402.6335
		2441	1.1870	2440.4461	2441.6331
		2480	1.2061	2479.4308	2480.6369

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Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441



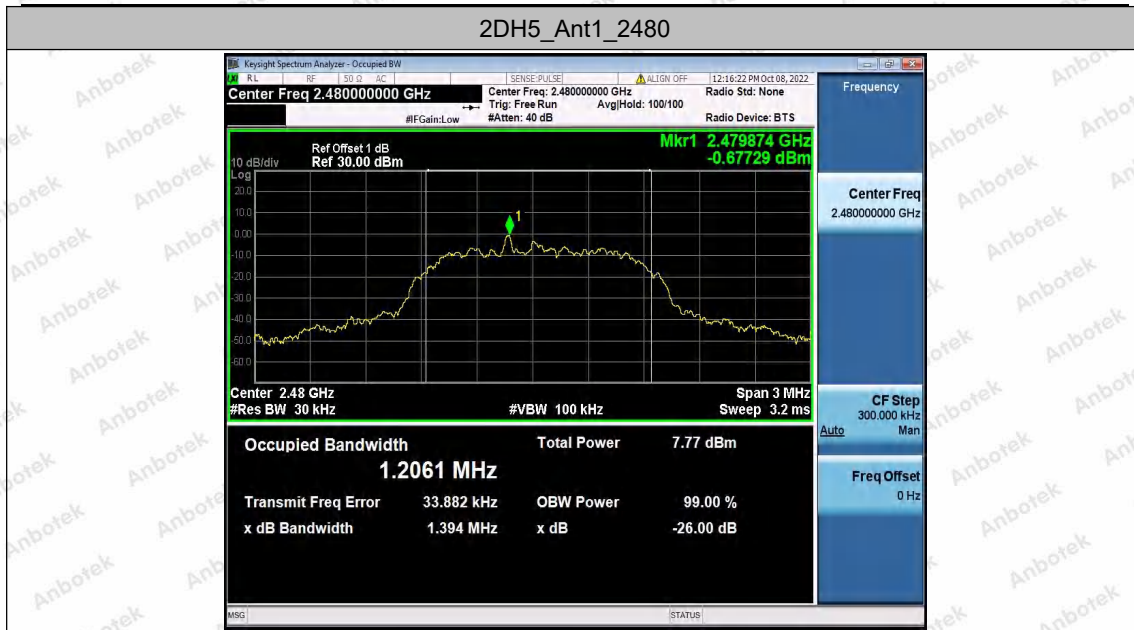
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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	2.12	≤20.97	PASS
		2441	2.21	≤20.97	PASS
		2480	1.96	≤20.97	PASS
2DH5	Ant1	2402	2.95	≤20.97	PASS
		2441	3.01	≤20.97	PASS
		2480	2.78	≤20.97	PASS



Test Graphs



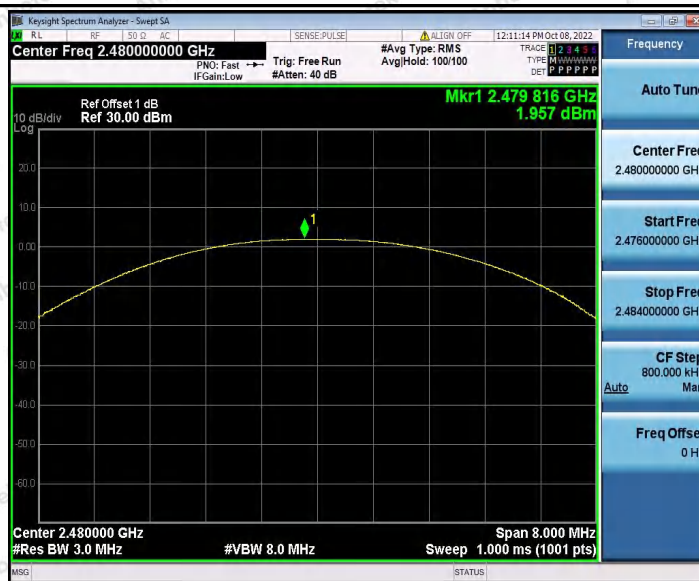
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2DH5_Ant1_2402



2DH5_Ant1_2441



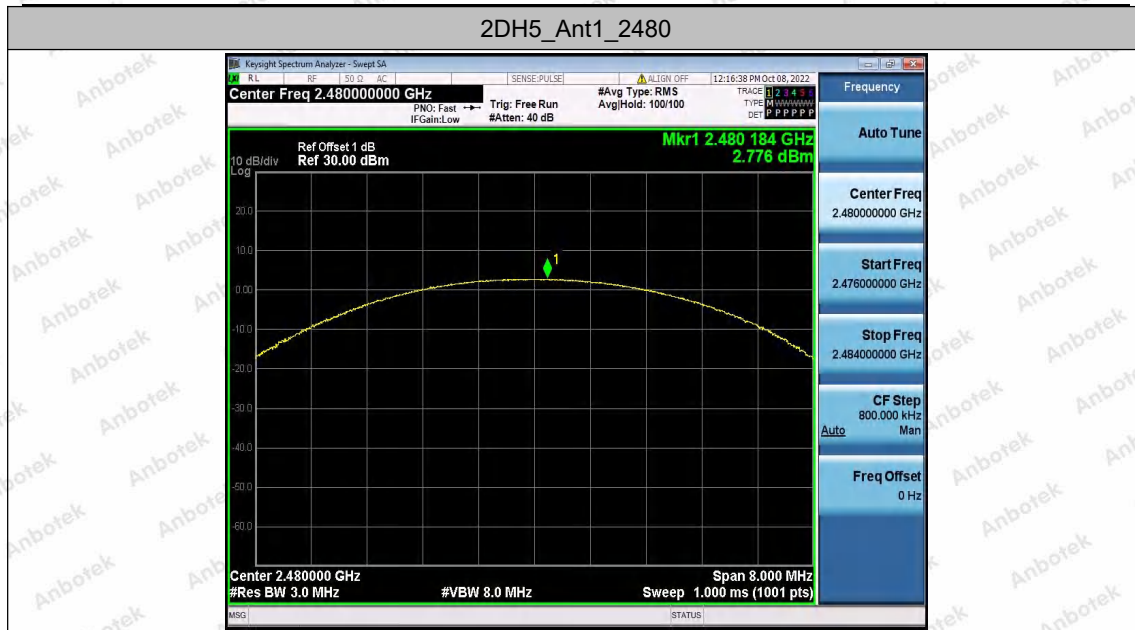
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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.032	≥0.696	PASS
2DH5	Ant1	Hop	1.228	≥0.876	PASS



Test Graphs



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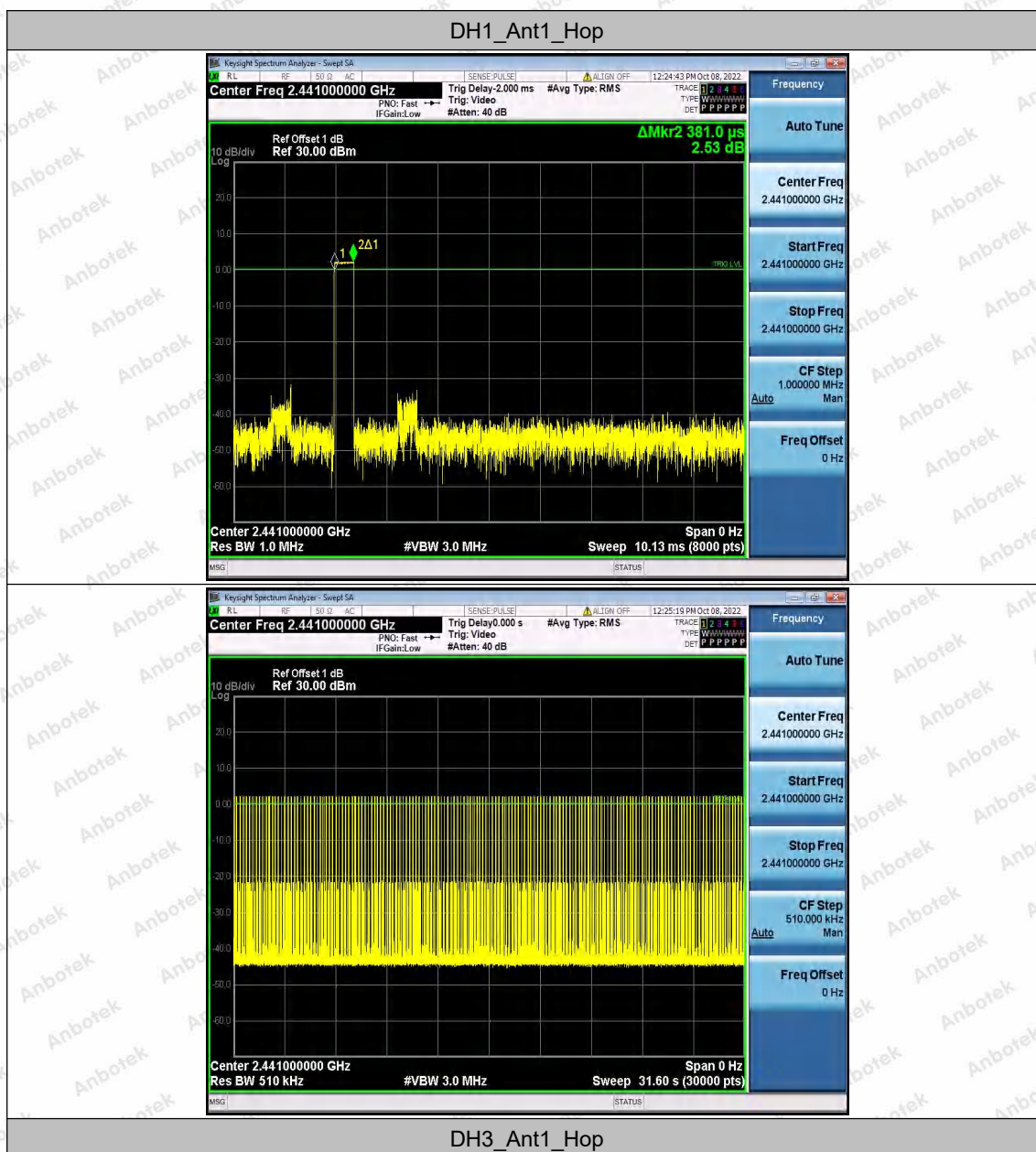


Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.381	318	0.121	≤0.4	PASS
DH3	Ant1	Hop	1.638	160	0.262	≤0.4	PASS
DH5	Ant1	Hop	2.885	114	0.329	≤0.4	PASS
2DH1	Ant1	Hop	0.390	317	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.643	156	0.256	≤0.4	PASS
2DH5	Ant1	Hop	2.891	114	0.33	≤0.4	PASS



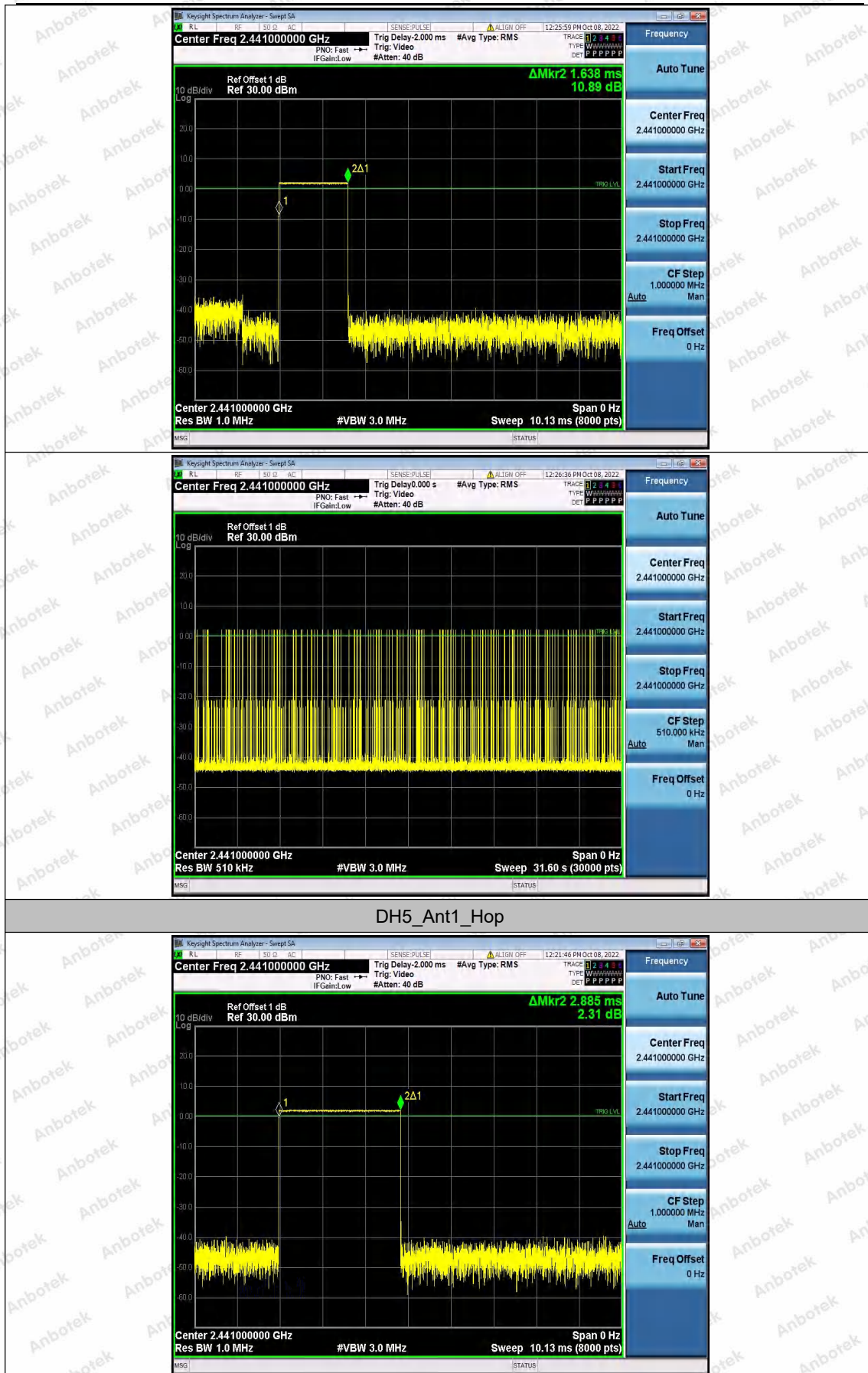


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DH5_Ant1_Hop

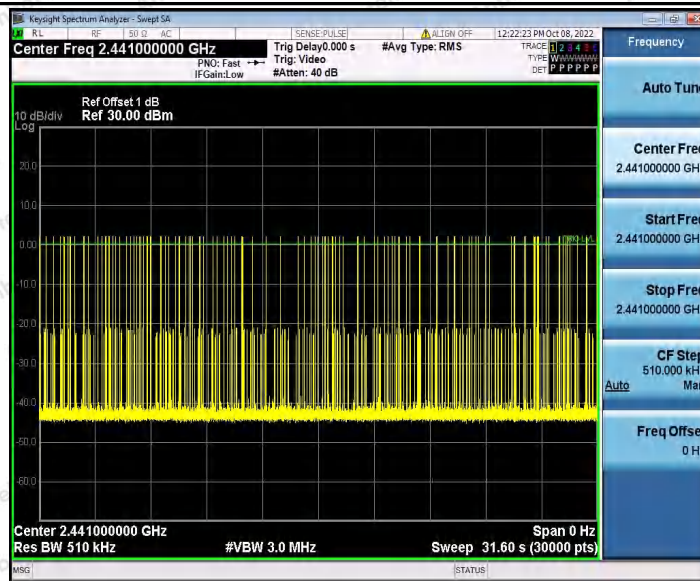
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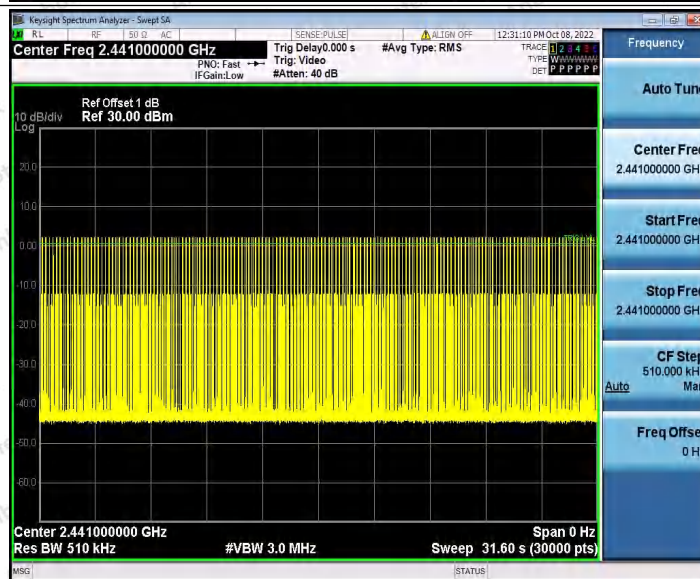
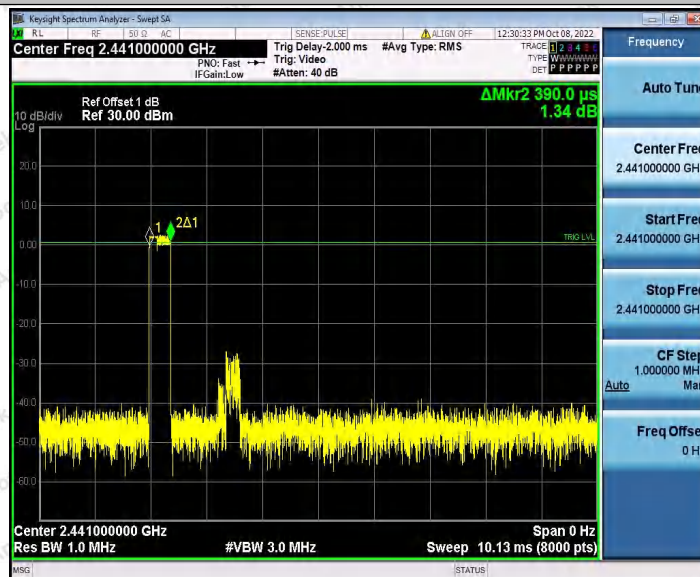


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2DH1_Ant1_Hop



2DH3_Ant1_Hop

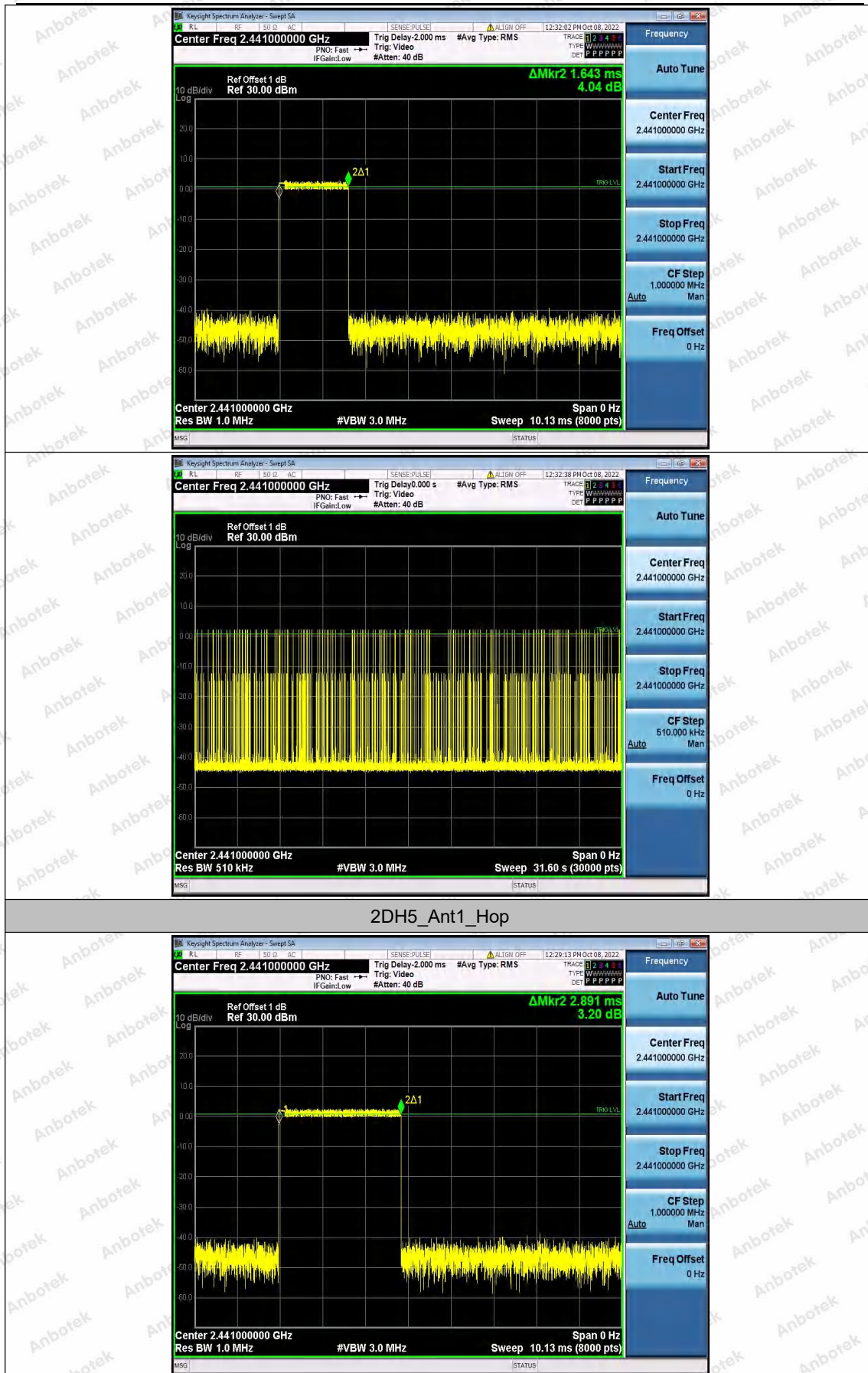
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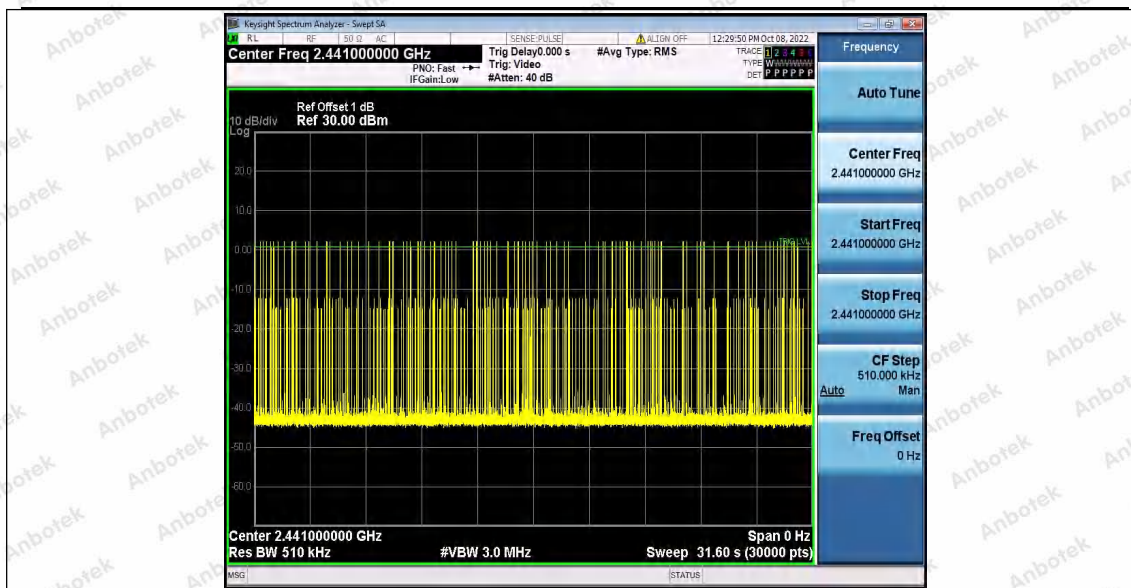
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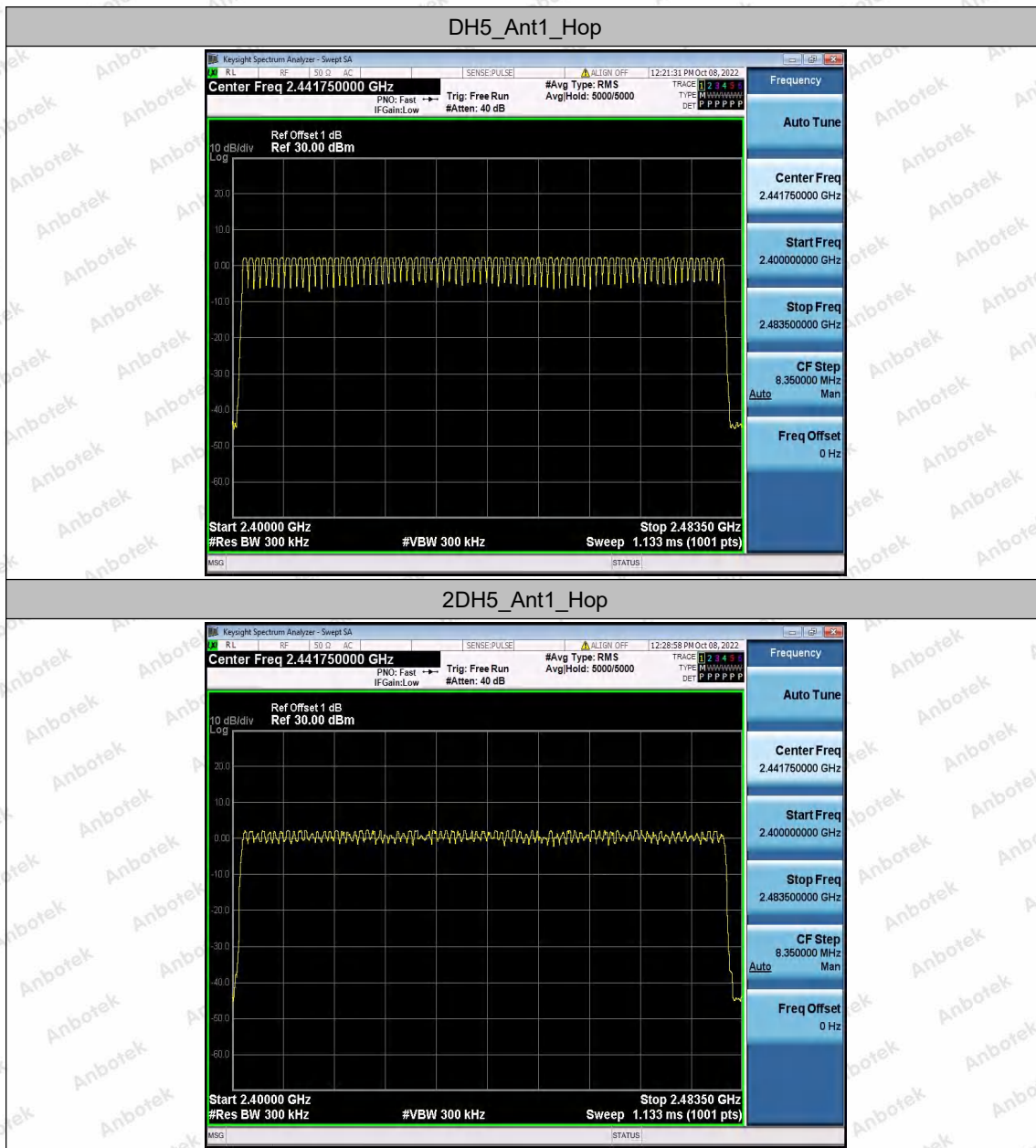
Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS



Test Graphs



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Appendix G: Band edge measurements

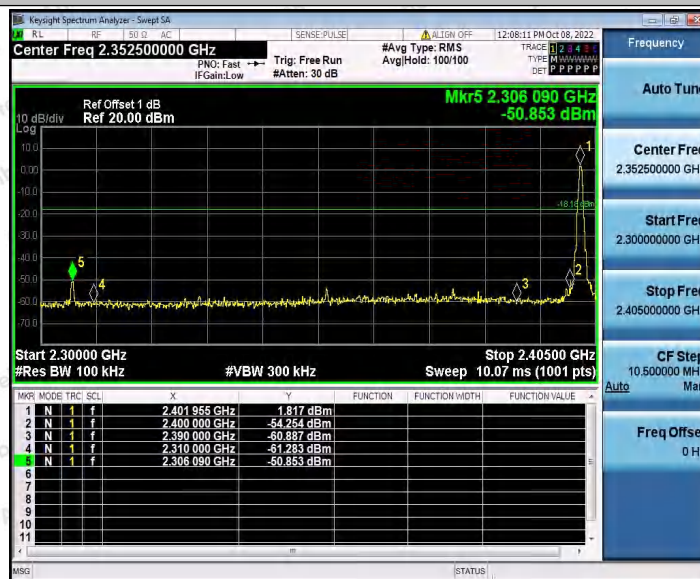
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.82	-50.85	≤-18.18	PASS
		High	2480	1.54	-53.8	≤-18.46	PASS
		Low	Hop_2402	1.41	-49.01	≤-18.59	PASS
		High	Hop_2480	1.65	-48.1	≤-18.36	PASS
2DH5	Ant1	Low	2402	-0.13	-49.29	≤-20.13	PASS
		High	2480	0.55	-53.49	≤-19.45	PASS
		Low	Hop_2402	1.76	-49.35	≤-18.24	PASS
		High	Hop_2480	1.77	-49.13	≤-18.23	PASS

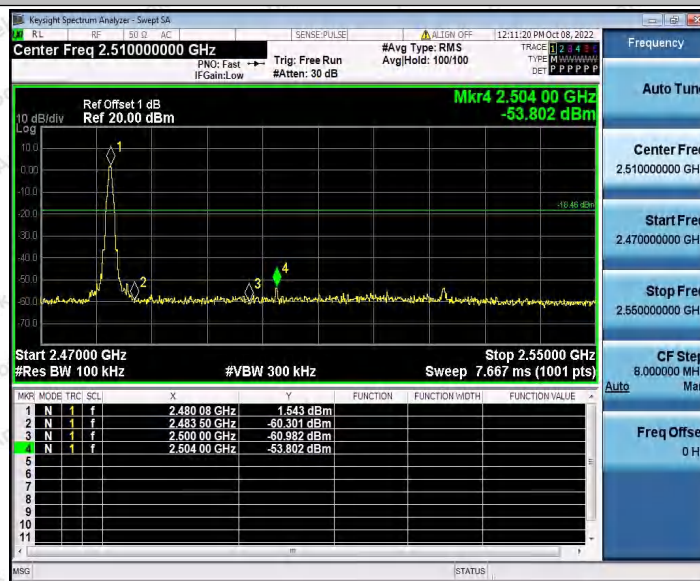


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

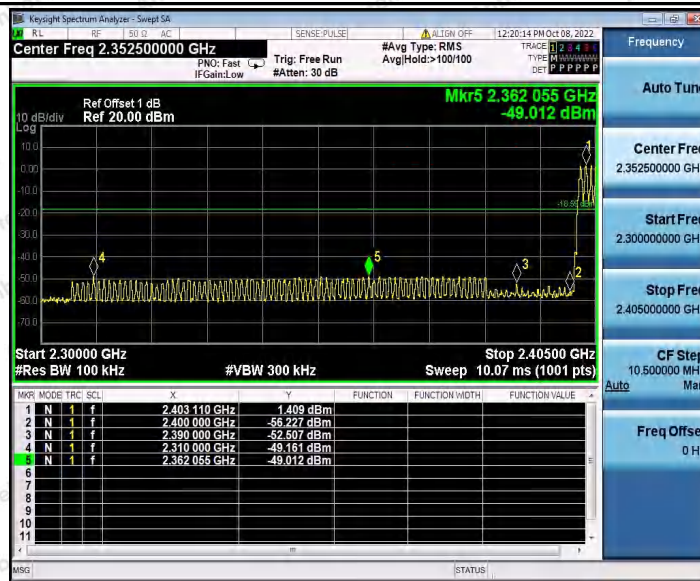
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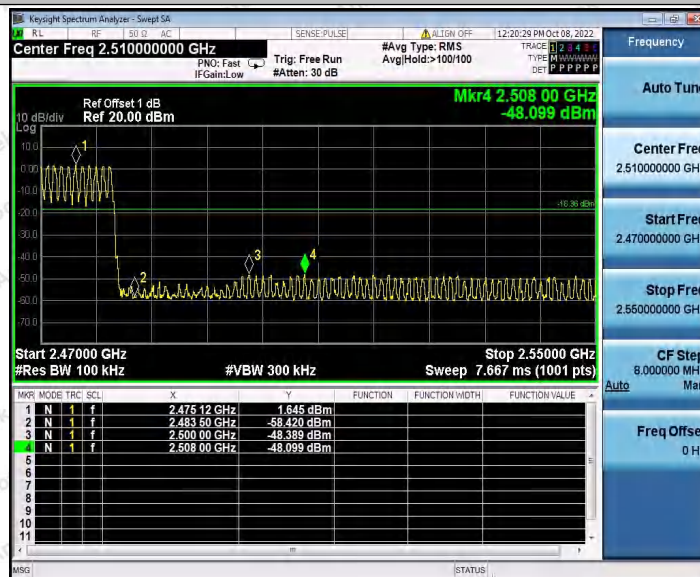


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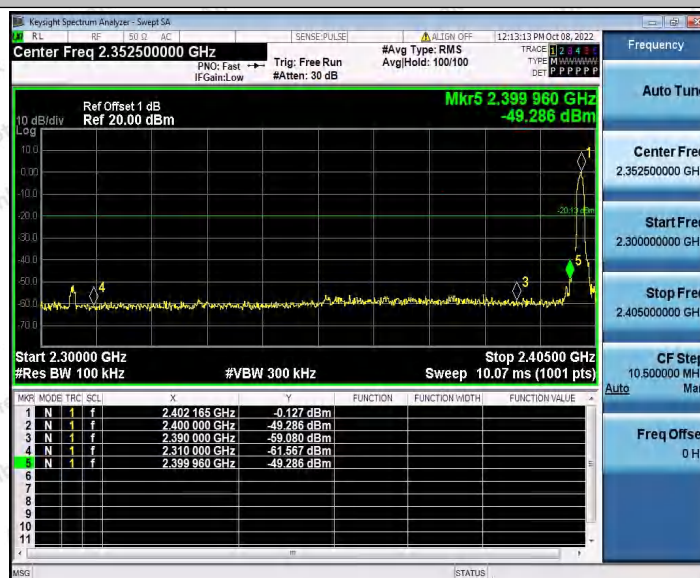




DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402



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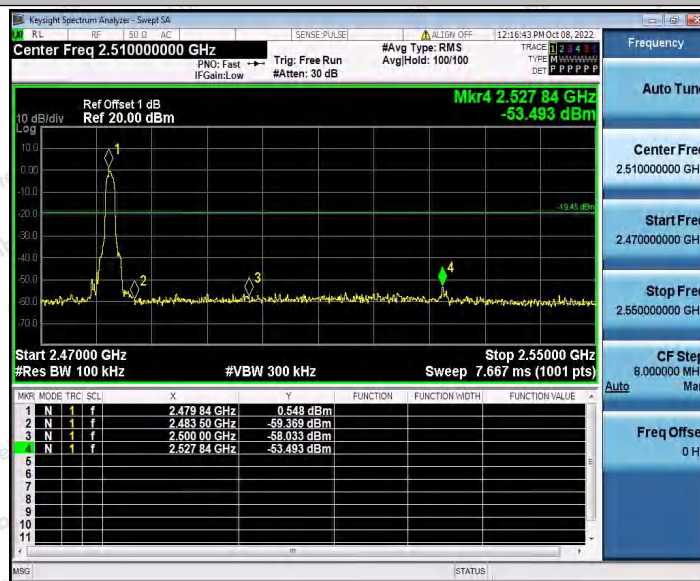
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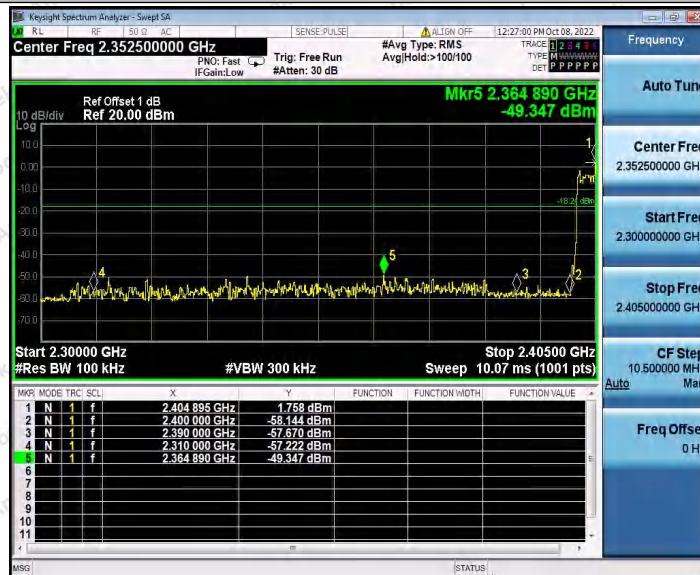
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

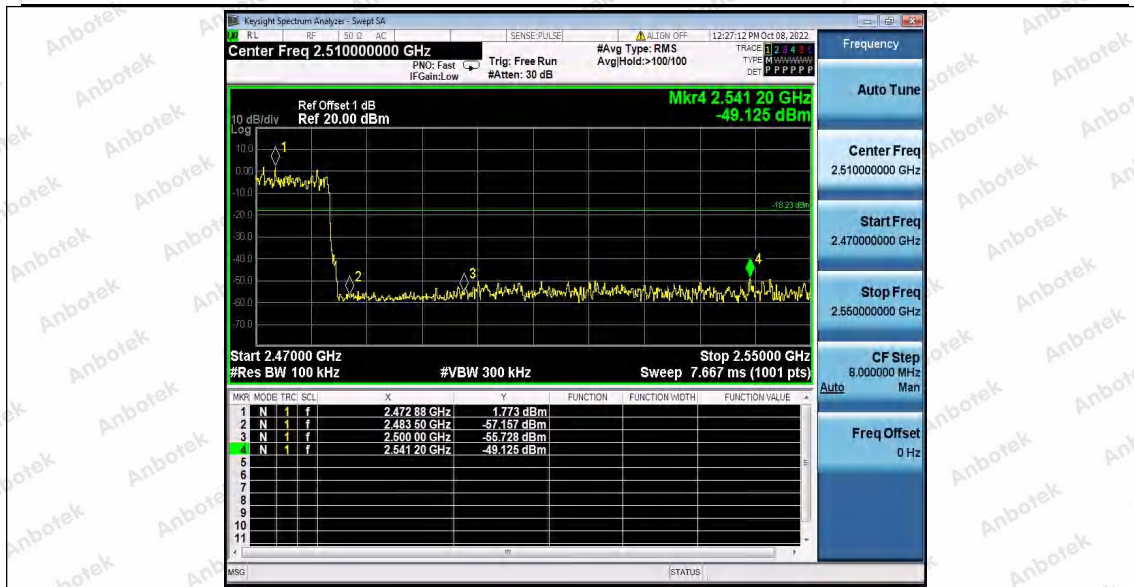
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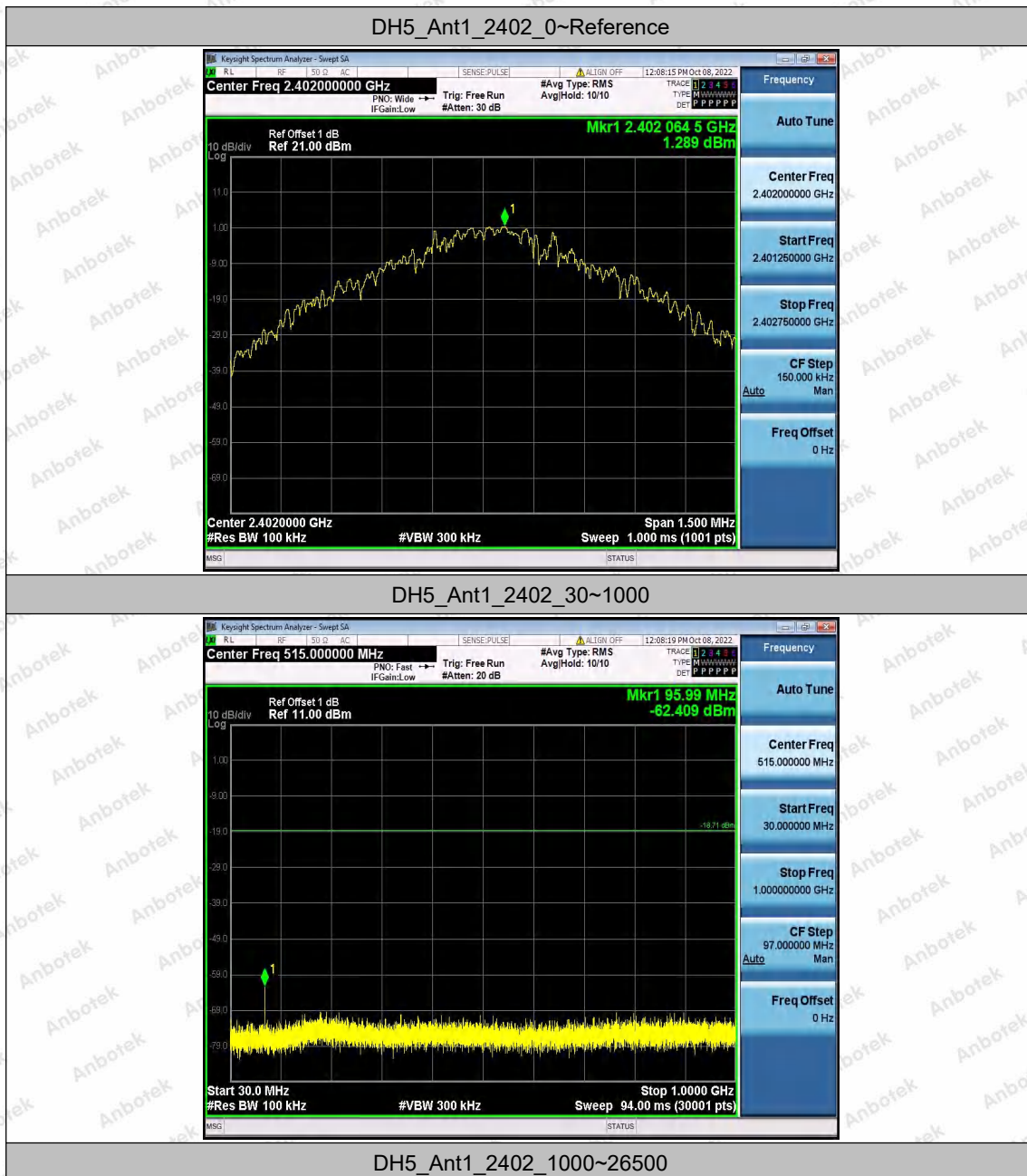
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.29	1.29	---	PASS
			30~1000	1.29	-62.41	≤-18.71	PASS
			1000~26500	1.29	-43.07	≤-18.71	PASS
		2441	Reference	1.48	1.48	---	PASS
			30~1000	1.48	-69.24	≤-18.52	PASS
			1000~26500	1.48	-45.32	≤-18.52	PASS
		2480	Reference	1.75	1.75	---	PASS
			30~1000	1.75	-68.73	≤-18.25	PASS
			1000~26500	1.75	-45.11	≤-18.25	PASS
2DH5	Ant1	2402	Reference	-2.09	-2.09	---	PASS
			30~1000	-2.09	-65.93	≤-22.09	PASS
			1000~26500	-2.09	-47.42	≤-22.09	PASS
		2441	Reference	-1.79	-1.79	---	PASS
			30~1000	-1.79	-61.41	≤-21.79	PASS
			1000~26500	-1.79	-48.52	≤-21.79	PASS
		2480	Reference	0.28	0.28	---	PASS
			30~1000	0.28	-68.25	≤-19.72	PASS
			1000~26500	0.28	-47.4	≤-19.72	PASS



Test Graphs



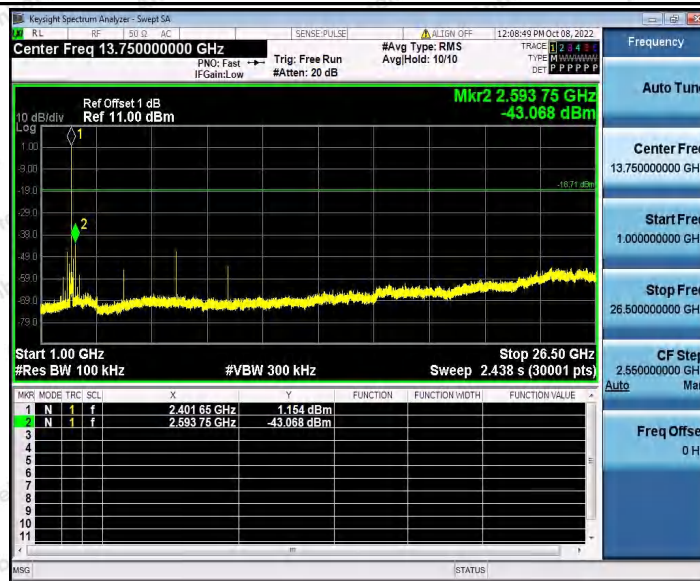
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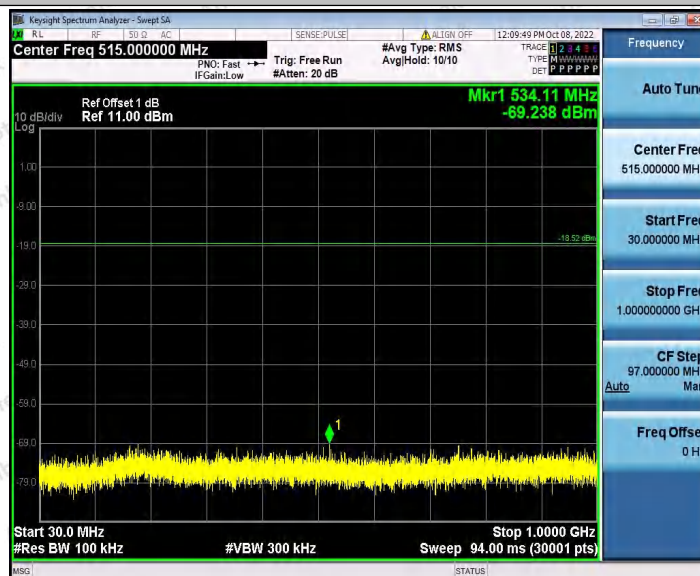




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



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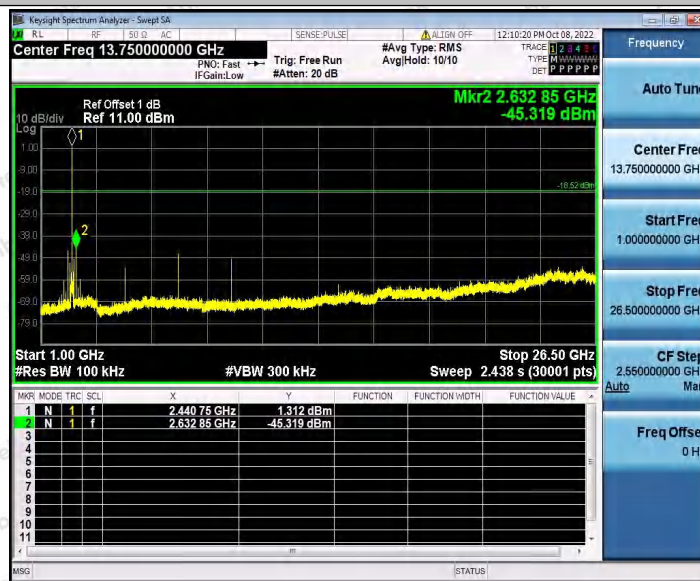
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000

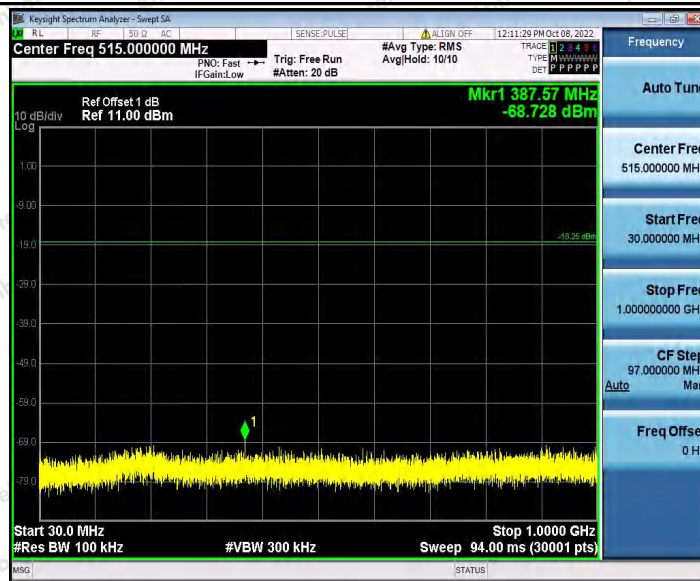
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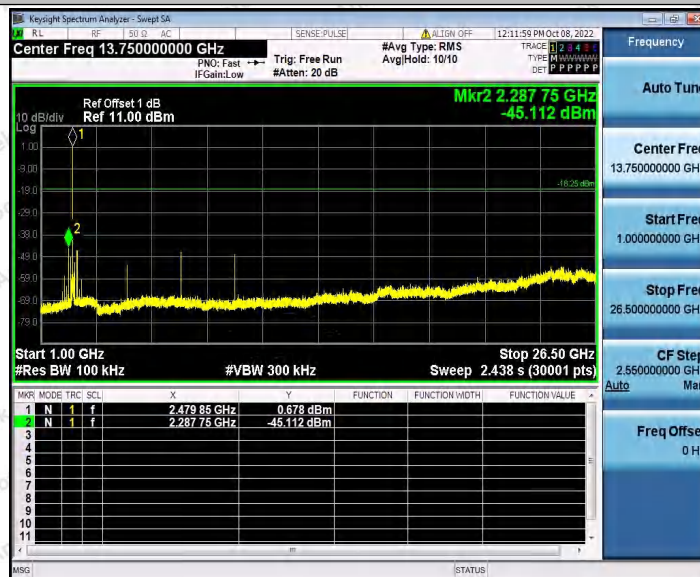


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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



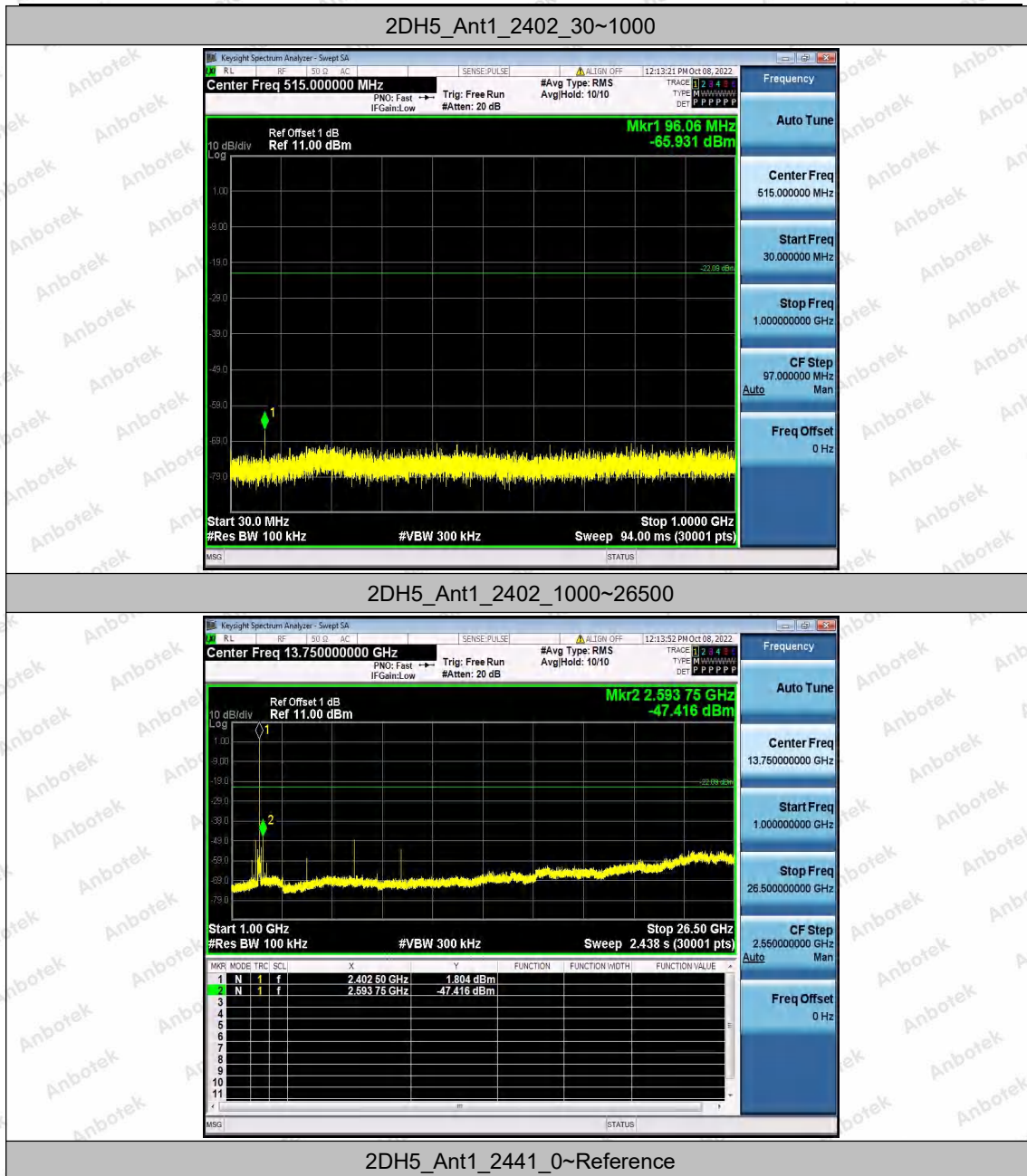
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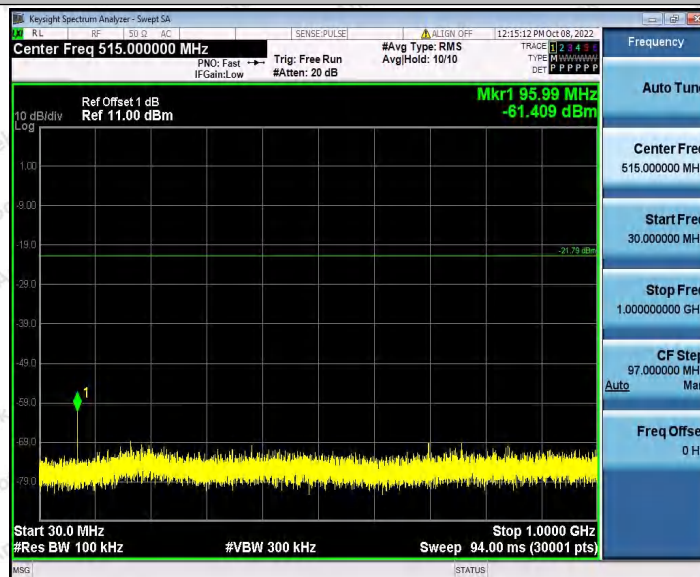


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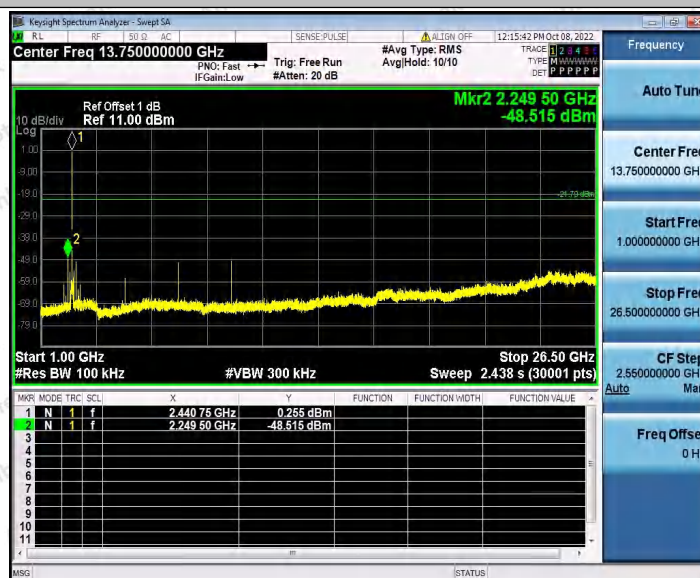




2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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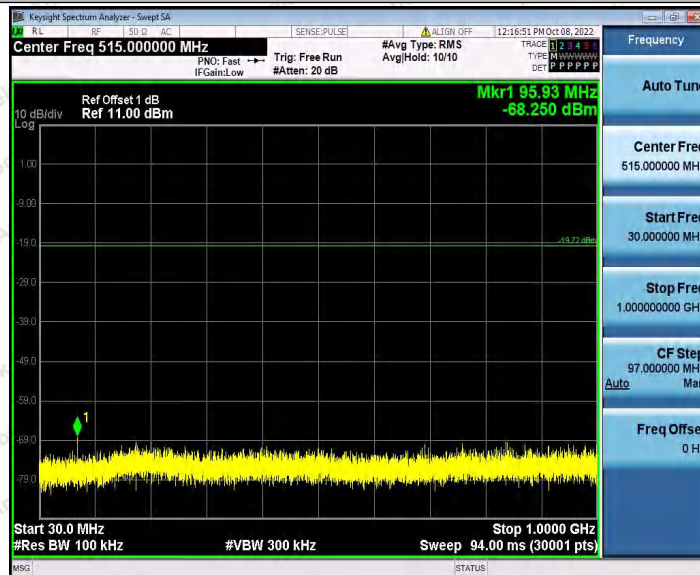
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

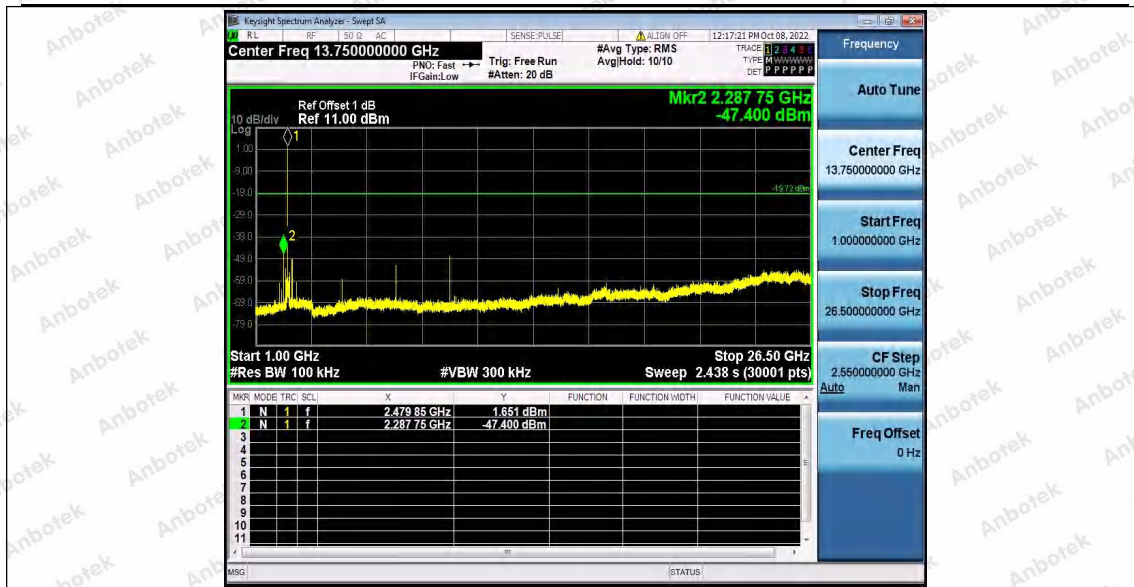
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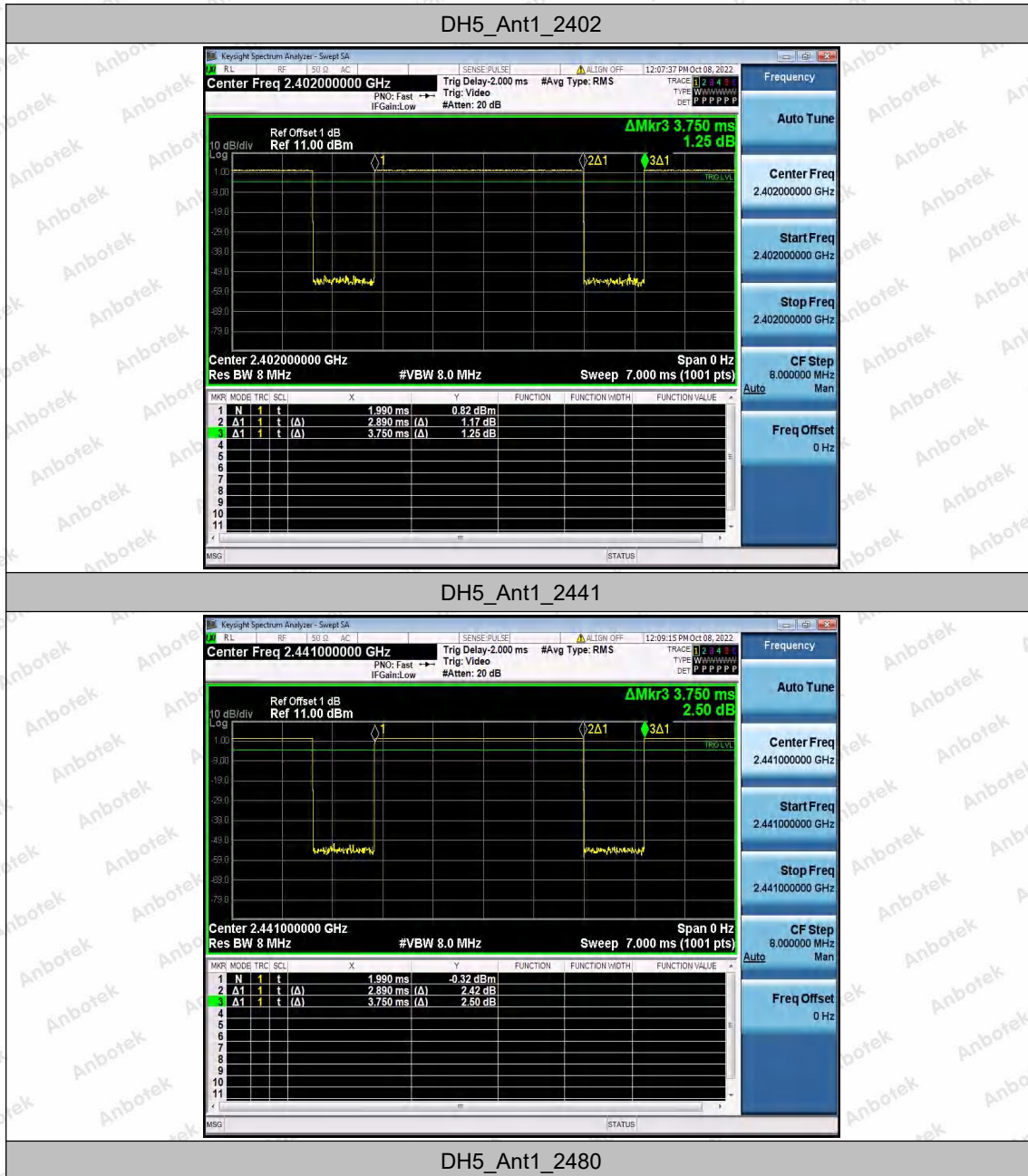
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time[ms]	Period[ms]	Duty Cycle[%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.89	3.75	77.07	1.13
		2441	2.89	3.75	77.07	1.13
		2480	2.89	3.75	77.07	1.13
2DH5	Ant1	2402	2.90	3.76	77.13	1.13
		2441	2.89	3.75	77.07	1.13
		2480	2.90	3.75	77.33	1.12



Test Graphs



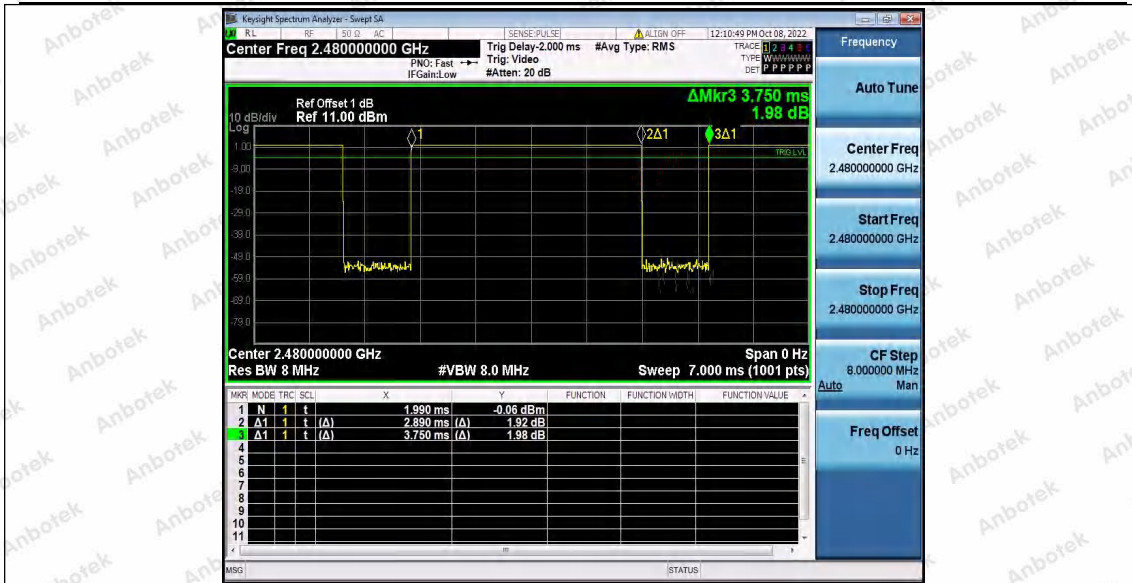
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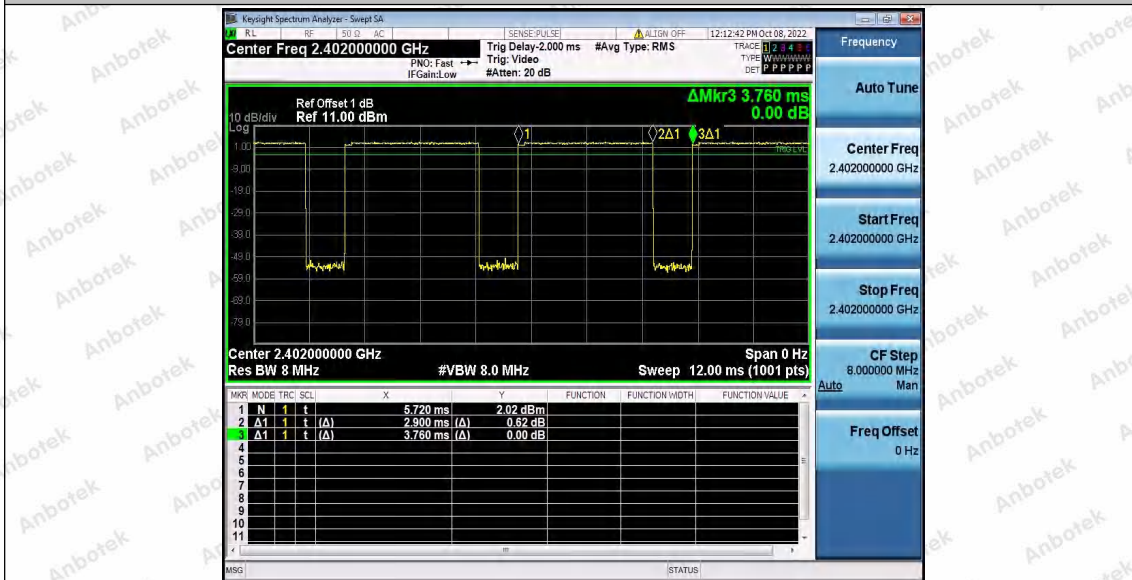


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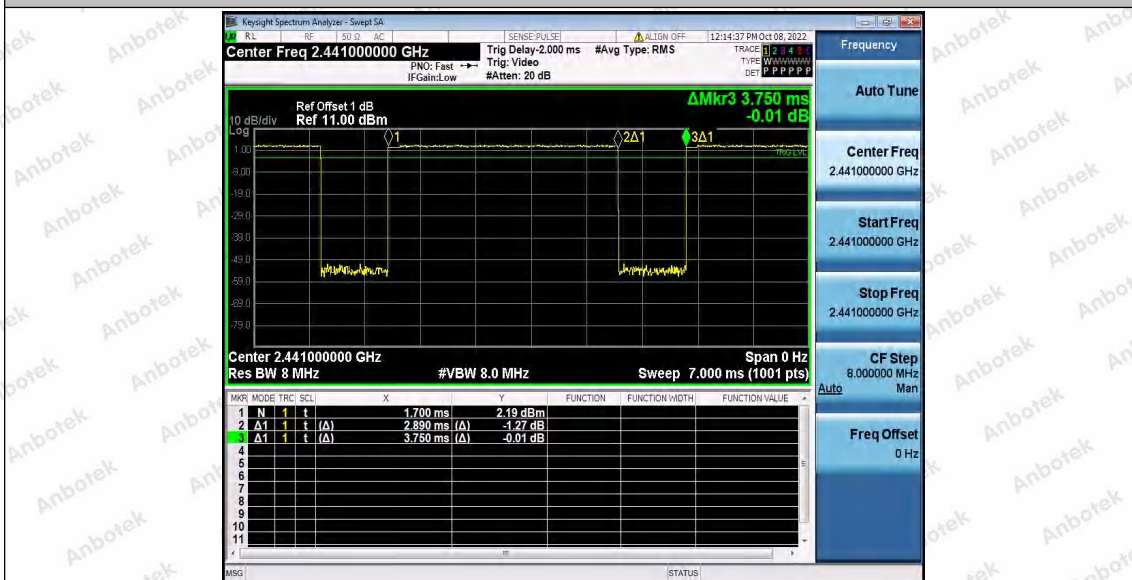




2DH5_Ant1_2402



2DH5_Ant1_2441

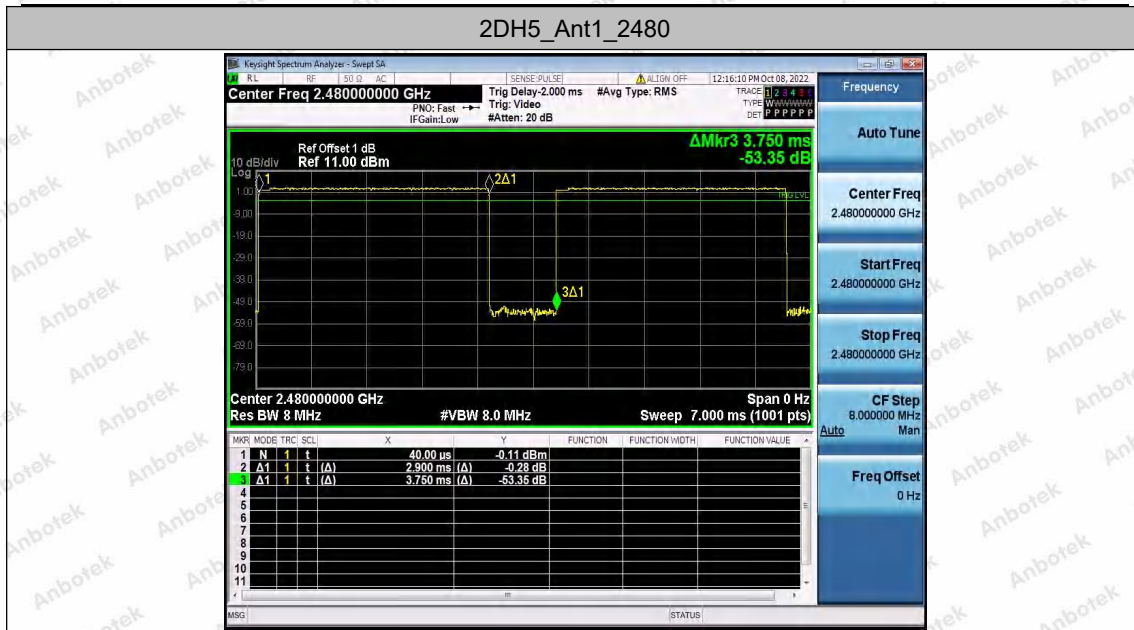


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