

Appendix Test Data

Report No.:	18220WC20272501	Test Sample No.:	1-2-2
Start Test Date:	2022.11.28	Finish Test Date:	2022.11.30
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	0.951	2401.532	2402.483
		2441	0.960	2440.532	2441.492
		2480	0.960	2479.535	2480.495
2DH5	Ant1	2402	1.269	2401.385	2402.654
		2441	1.314	2440.343	2441.657
		2480	1.320	2479.337	2480.657



Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441



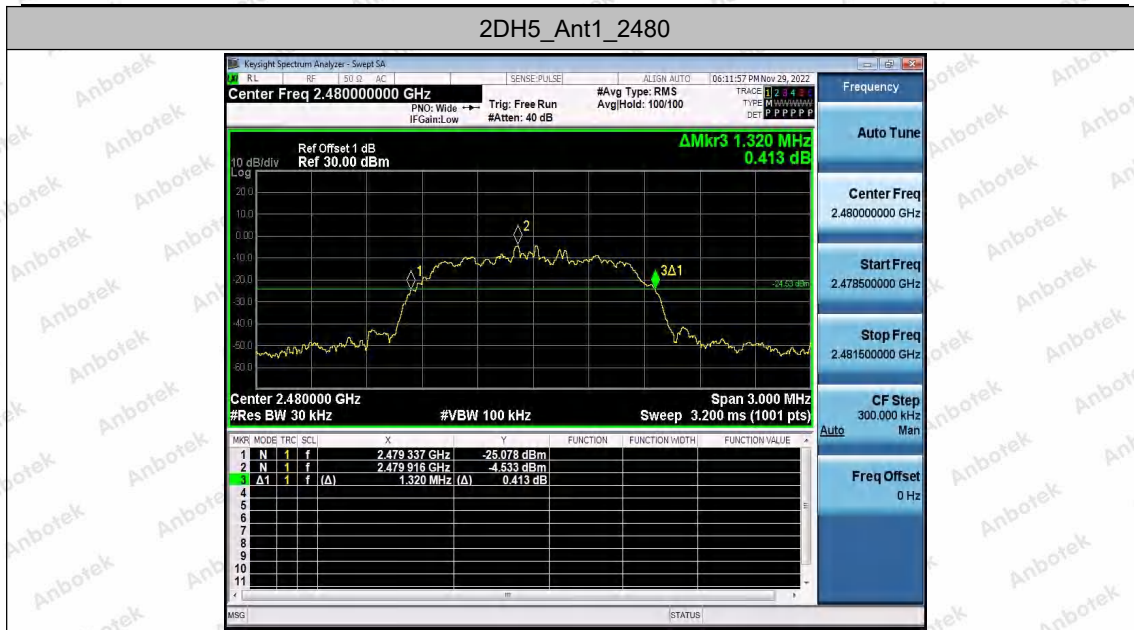
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Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
DH5	Ant1	2402	0.85472	2401.5734	2402.4281
		2441	0.85256	2440.5728	2441.4254
		2480	0.85441	2479.5701	2480.4245
2DH5	Ant1	2402	1.1778	2401.4088	2402.5866
		2441	1.1668	2440.4169	2441.5837
		2480	1.1746	2479.4112	2480.5858



Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441



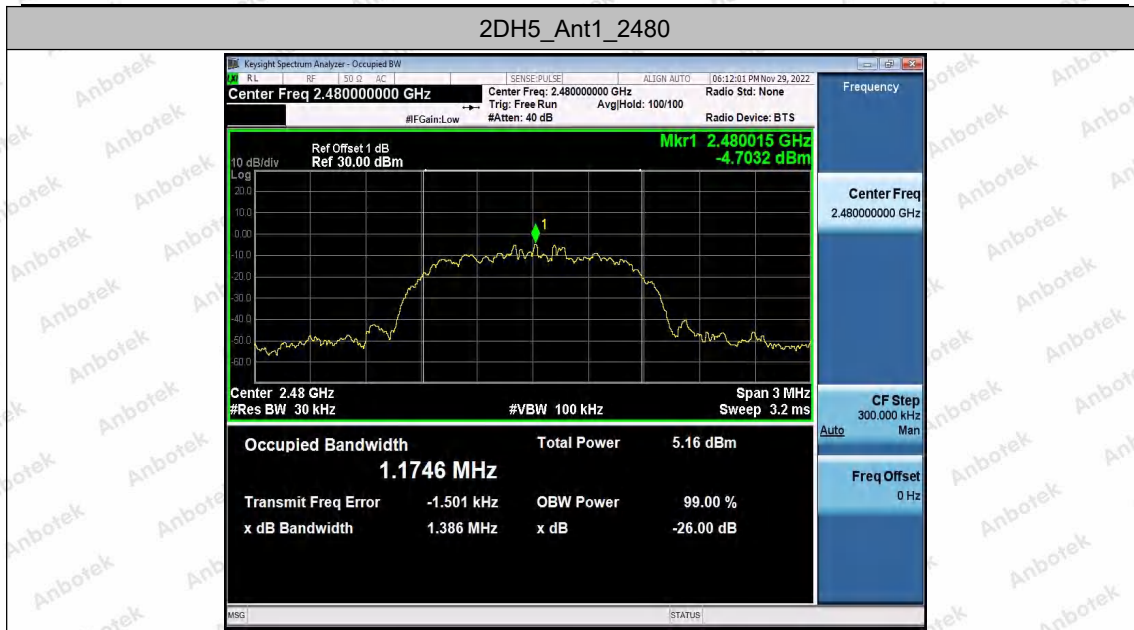
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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-1.57	≤30	PASS
		2441	-1.31	≤30	PASS
		2480	-1.84	≤30	PASS
2DH5	Ant1	2402	0.58	≤20.97	PASS
		2441	0.76	≤20.97	PASS
		2480	0.20	≤20.97	PASS



Test Graphs



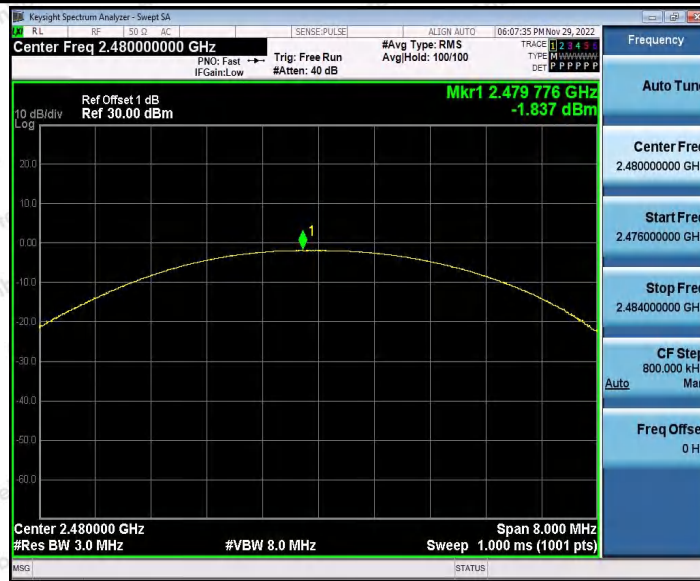
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2DH5_Ant1_2402



2DH5_Ant1_2441



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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.998	≥0.960	PASS
2DH5	Ant1	Hop	1.124	≥0.880	PASS

Test Graphs



Appendix E: Time of occupancy

Test Result

Test Mode	Antenna	Frequency[MHz]	Burst Width [ms]	Total Hops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.402	320	0.129	≤0.4	PASS
DH3	Ant1	Hop	1.657	158	0.262	≤0.4	PASS
DH5	Ant1	Hop	2.904	106	0.308	≤0.4	PASS
2DH1	Ant1	Hop	0.410	319	0.131	≤0.4	PASS
2DH3	Ant1	Hop	1.663	170	0.283	≤0.4	PASS
2DH5	Ant1	Hop	2.911	113	0.329	≤0.4	PASS

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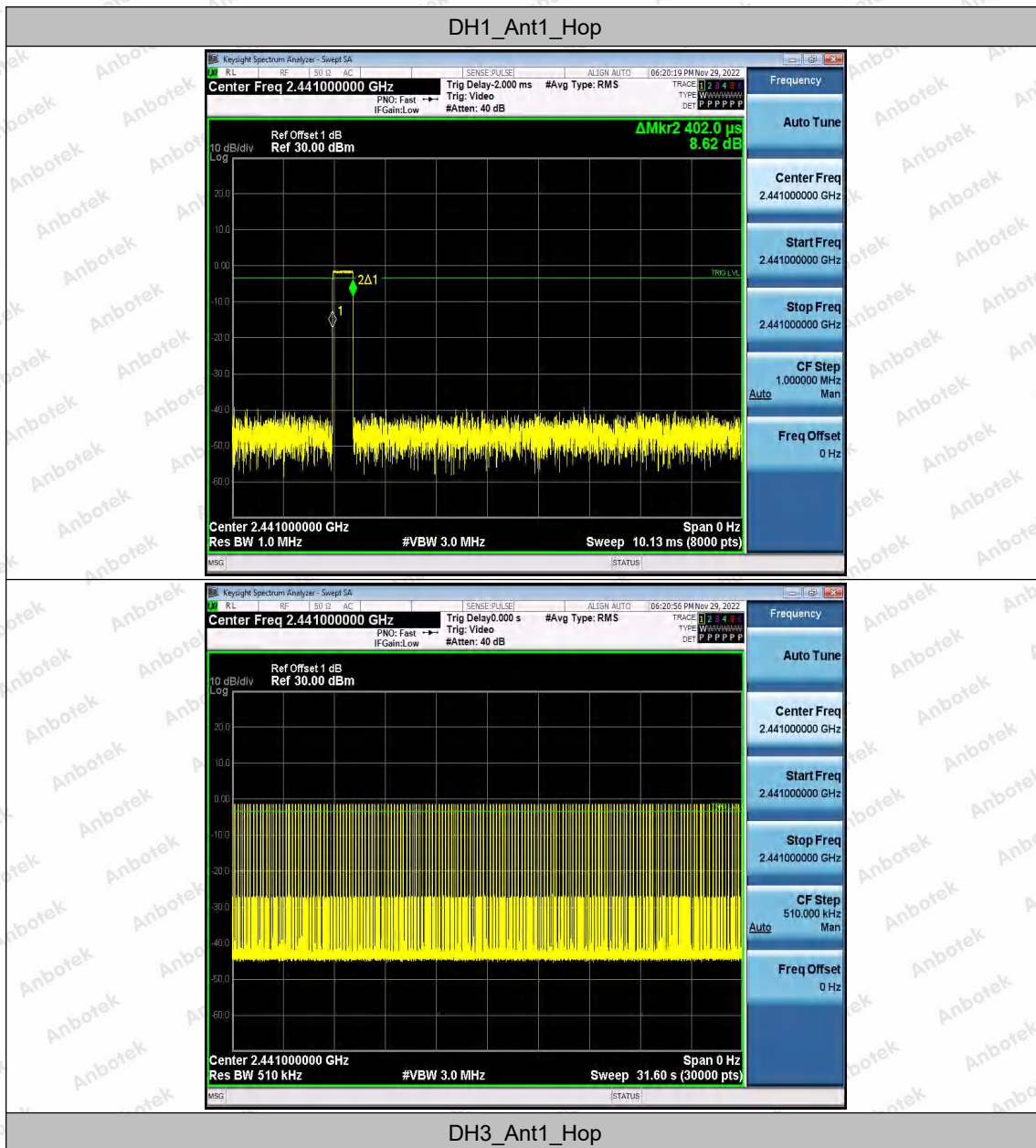
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Test Graphs



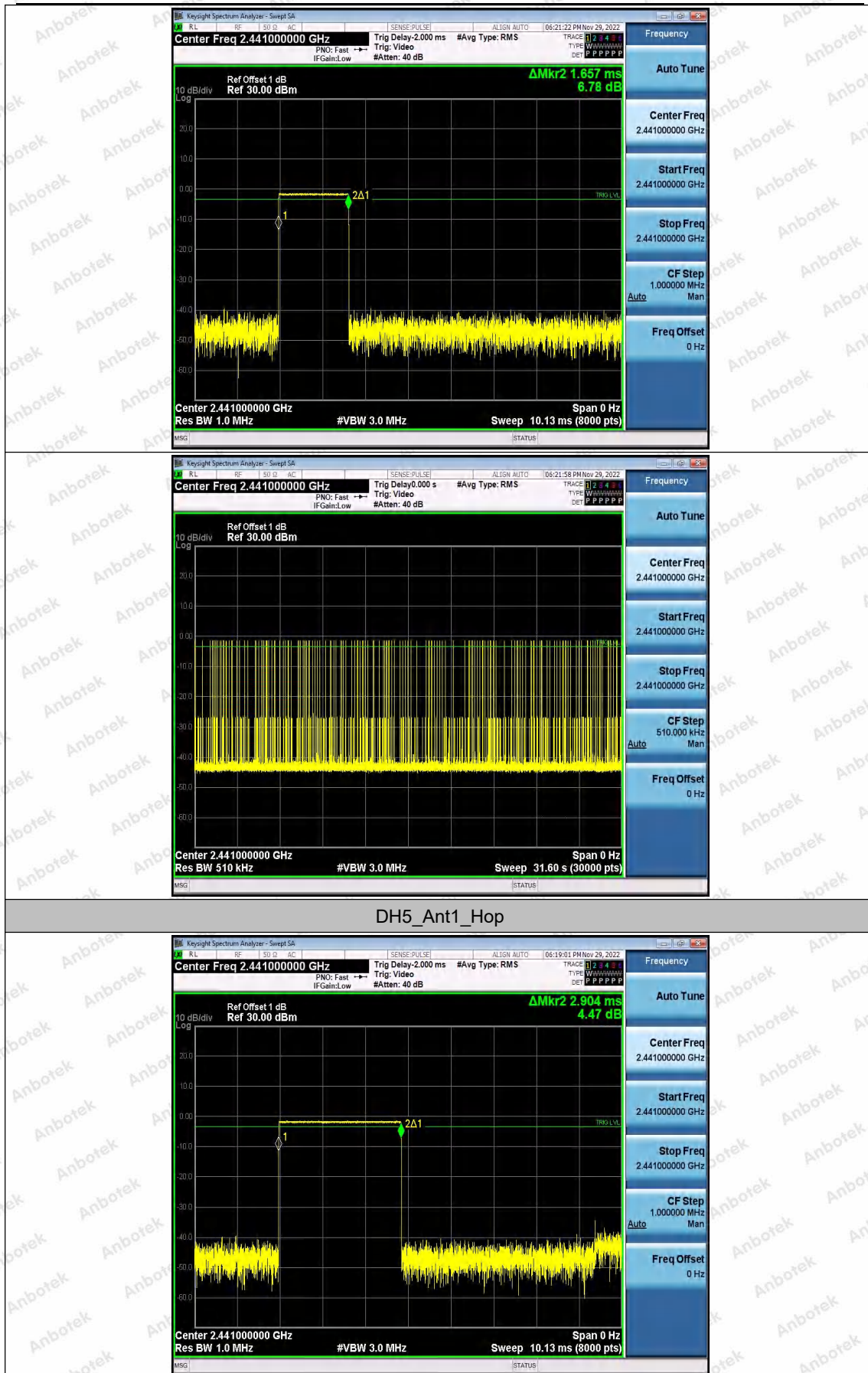
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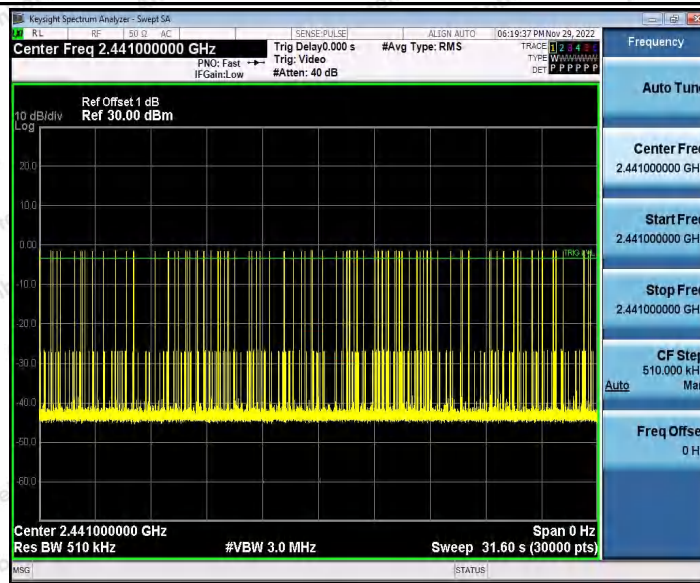
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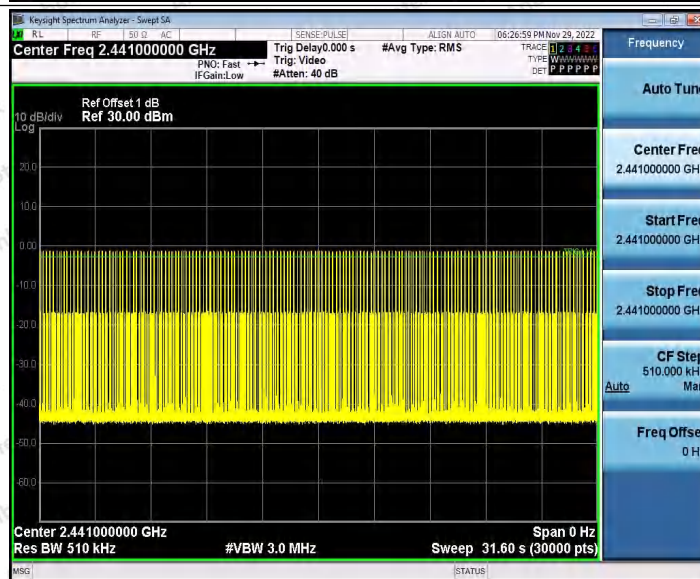
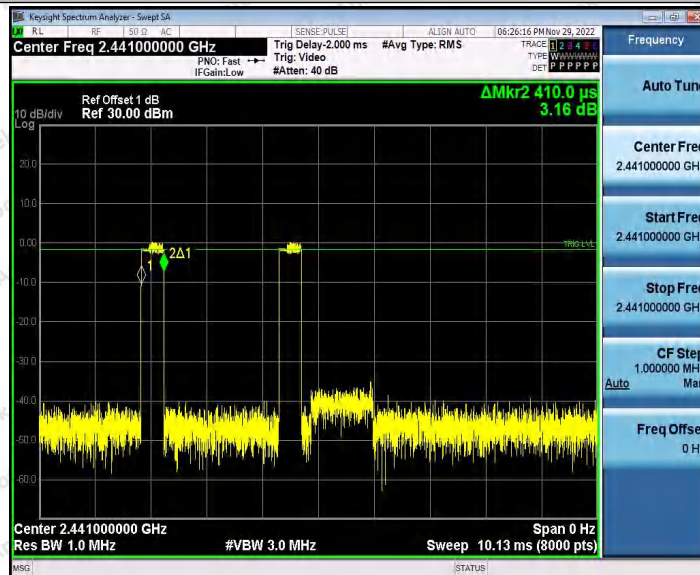


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2DH1_Ant1_Hop



2DH3_Ant1_Hop

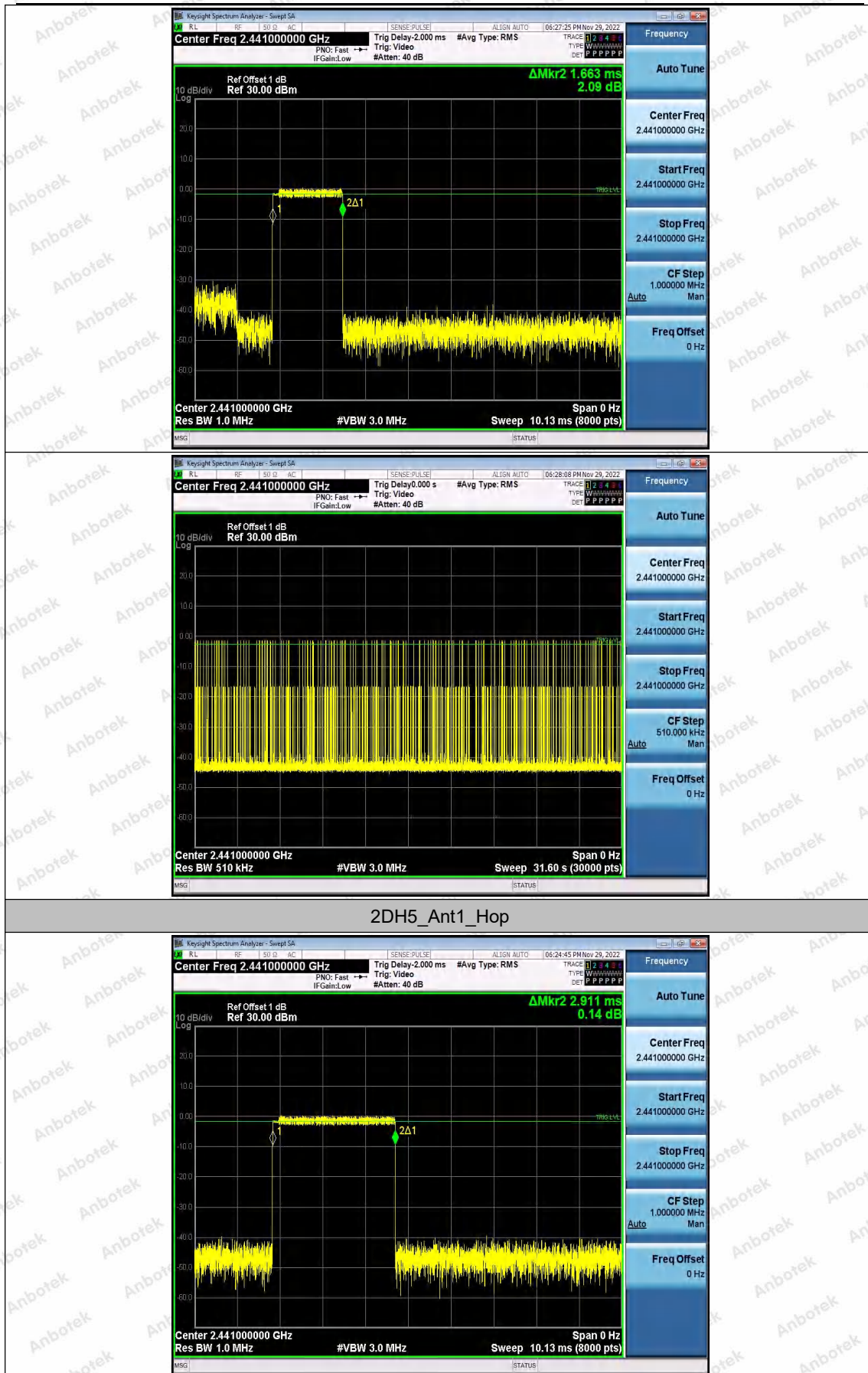
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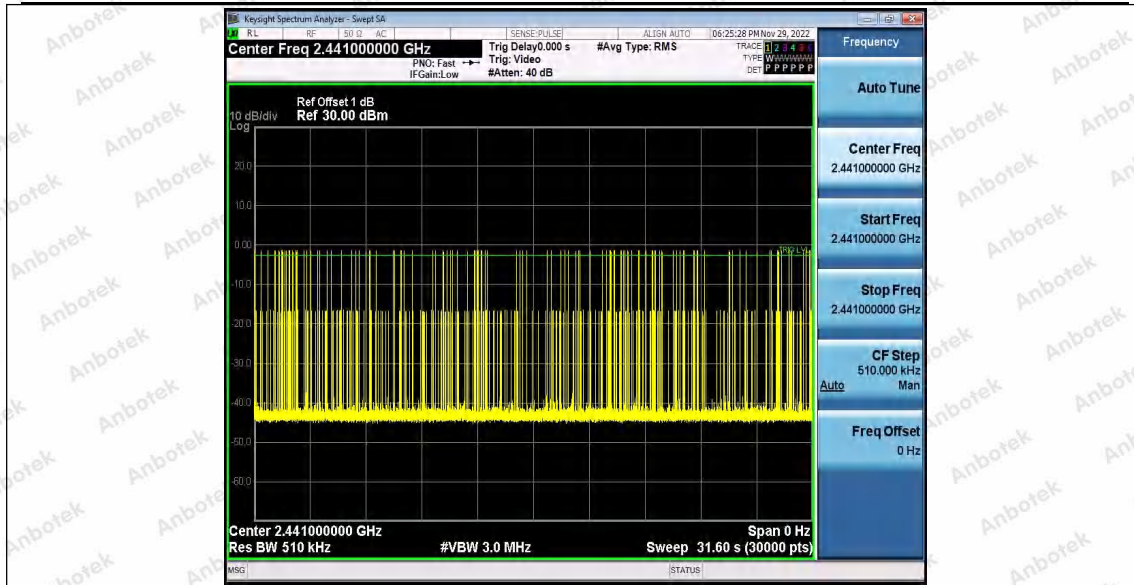
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Appendix F: Number of hopping channels

Test Result

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

Test Graphs



Appendix G: Band edge measurements

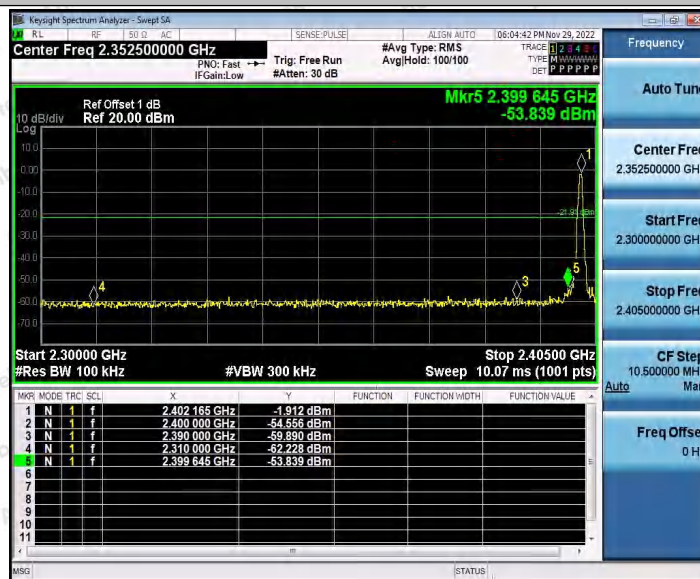
Test Result

Test Mode	Antenna	Ch Name	Frequency[MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-1.91	-53.84	≤-21.91	PASS
		High	2480	-2.14	-57.93	≤-22.14	PASS
		Low	Hop_2402	-2.75	-57.09	≤-22.75	PASS
		High	Hop_2480	-1.79	-44.55	≤-21.79	PASS
2DH5	Ant1	Low	2402	-1.78	-55.58	≤-21.78	PASS
		High	2480	-2.74	-55.84	≤-22.74	PASS
		Low	Hop_2402	-2.57	-57.65	≤-22.57	PASS
		High	Hop_2480	-4.05	-56.55	≤-24.05	PASS

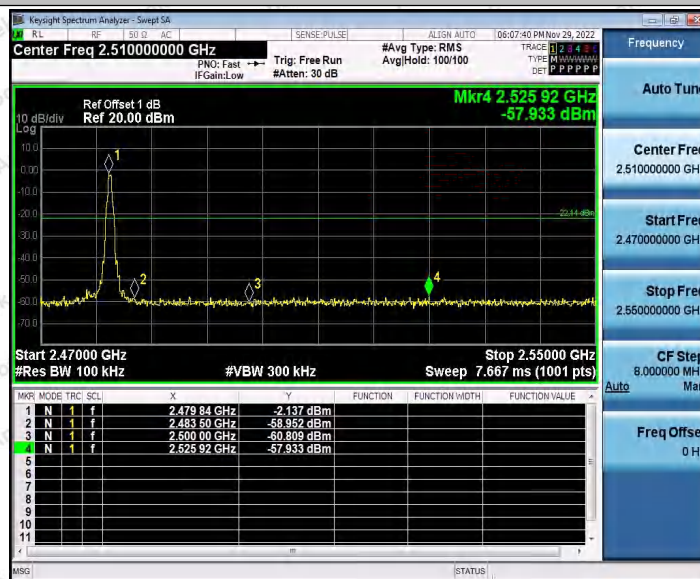


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

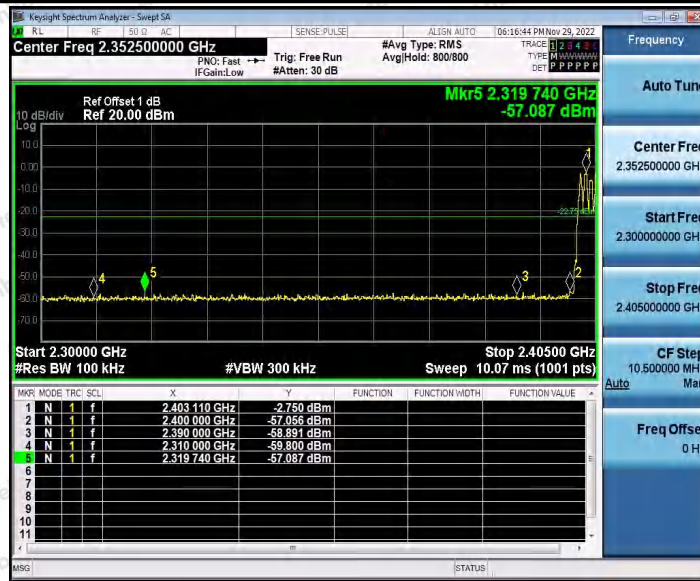
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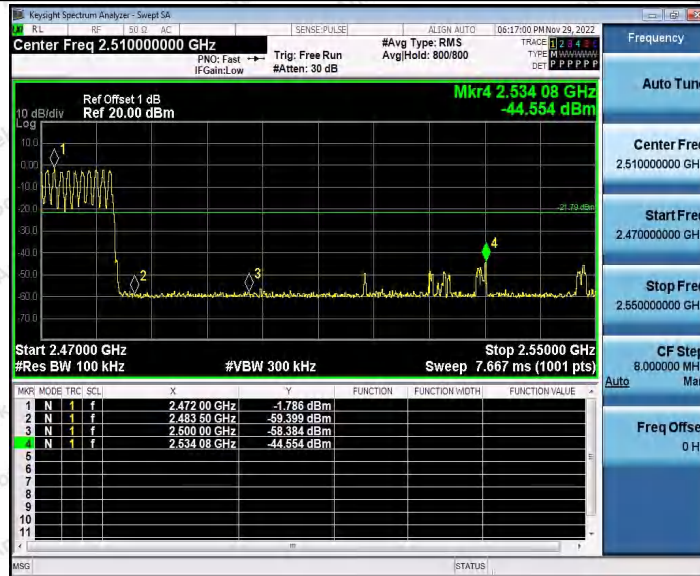


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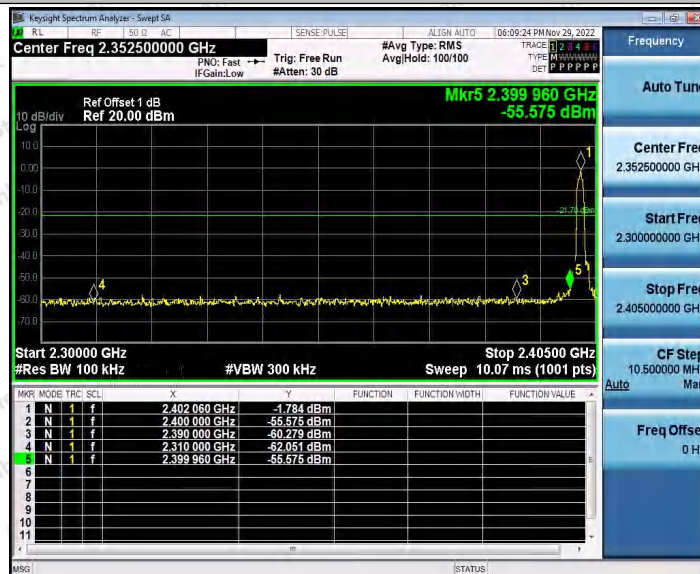




DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402



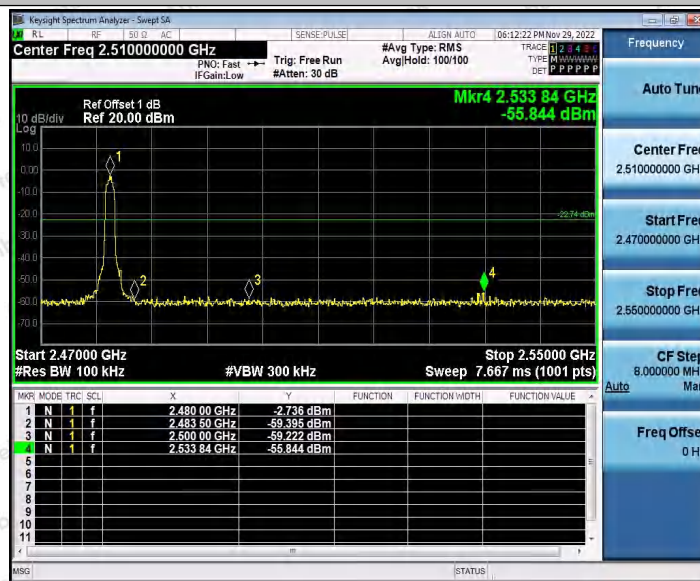
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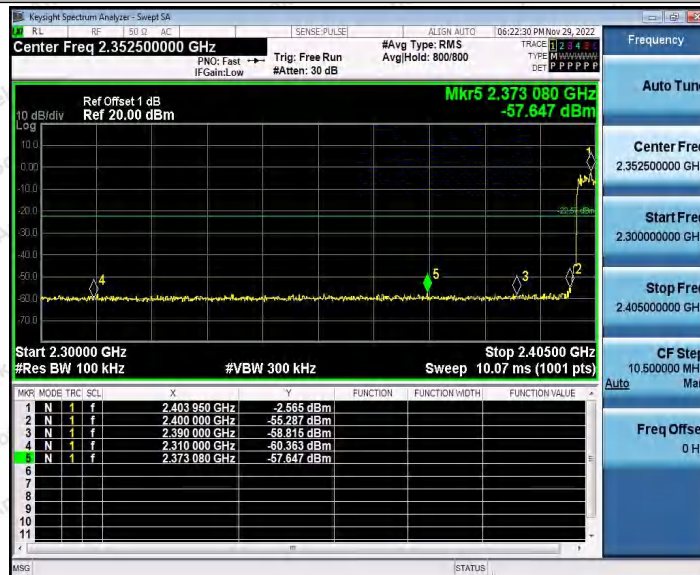
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

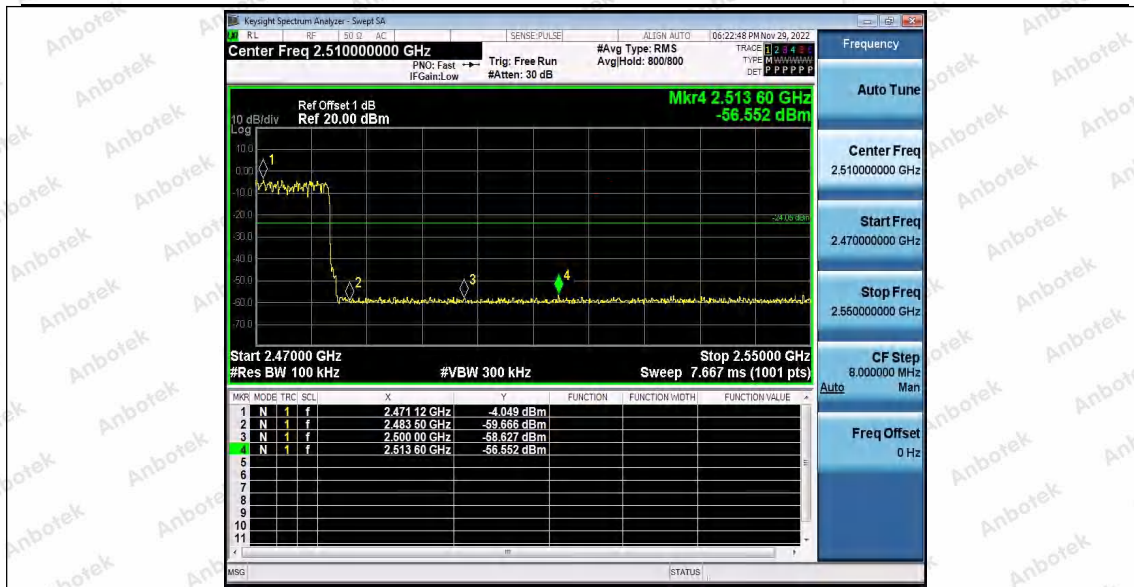
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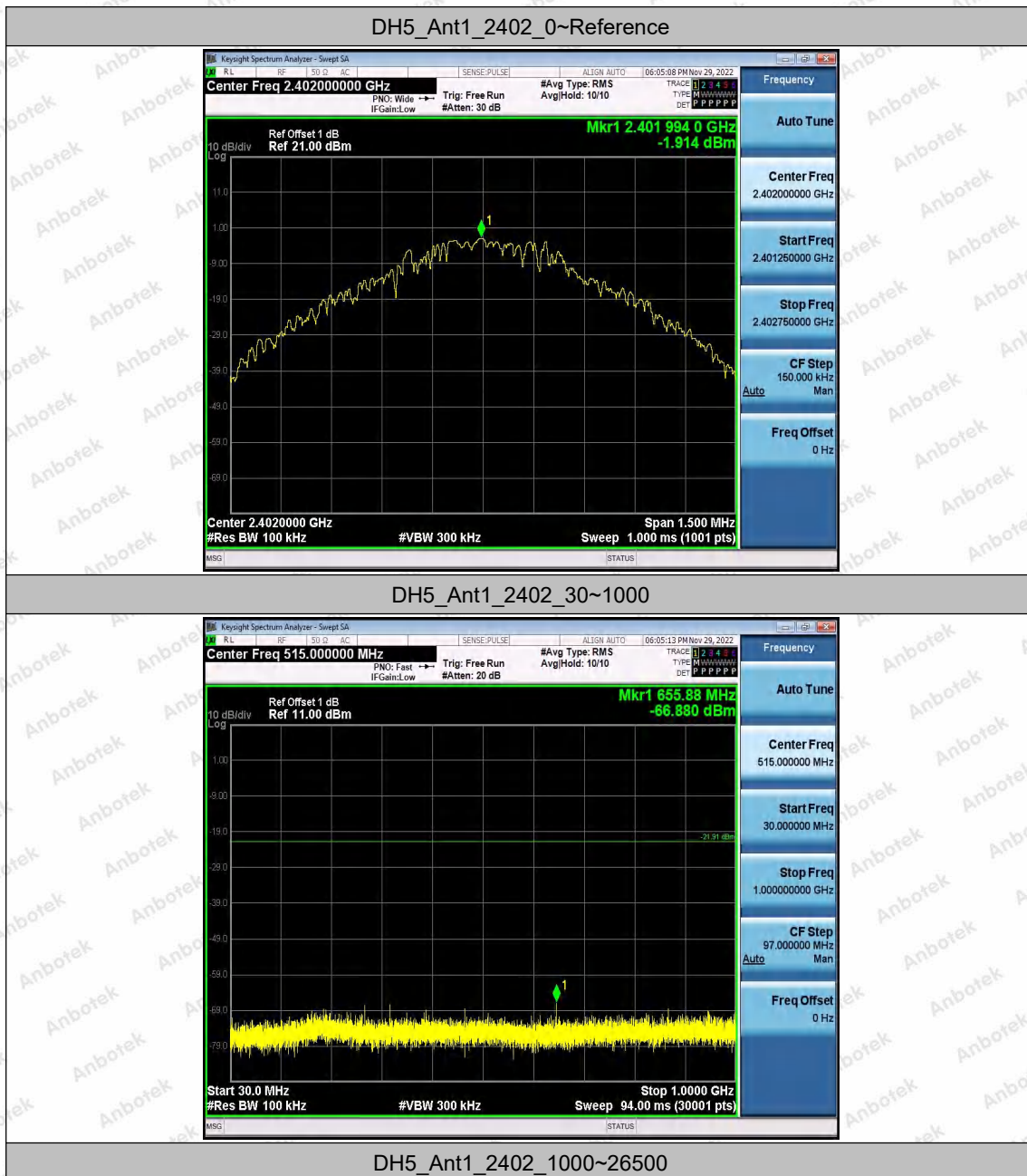
Appendix H: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.91	-1.91	---	PASS
			30~1000	-1.91	-66.88	≤-21.91	PASS
			1000~26500	-1.91	-53.01	≤-21.91	PASS
		2441	Reference	-2.07	-2.07	---	PASS
			30~1000	-2.07	-67.33	≤-22.07	PASS
			1000~26500	-2.07	-52.93	≤-22.07	PASS
		2480	Reference	-2.22	-2.22	---	PASS
			30~1000	-2.22	-59.07	≤-22.22	PASS
			1000~26500	-2.22	-52.84	≤-22.22	PASS
2DH5	Ant1	2402	Reference	-2.63	-2.63	---	PASS
			30~1000	-2.63	-67.7	≤-22.63	PASS
			1000~26500	-2.63	-42.12	≤-22.63	PASS
		2441	Reference	-3.90	-3.90	---	PASS
			30~1000	-3.90	-39.26	≤-23.9	PASS
			1000~26500	-3.90	-53.47	≤-23.9	PASS
		2480	Reference	-3.18	-3.18	---	PASS
			30~1000	-3.18	-68.21	≤-23.18	PASS
			1000~26500	-3.18	-53.26	≤-23.18	PASS



Test Graphs



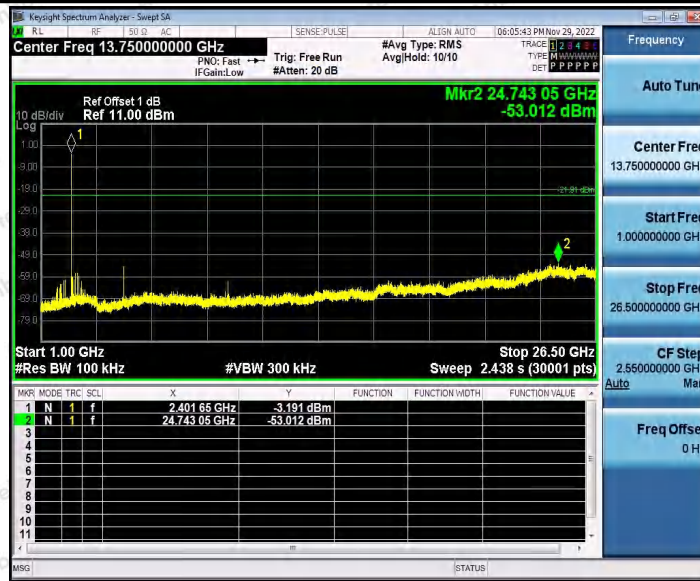
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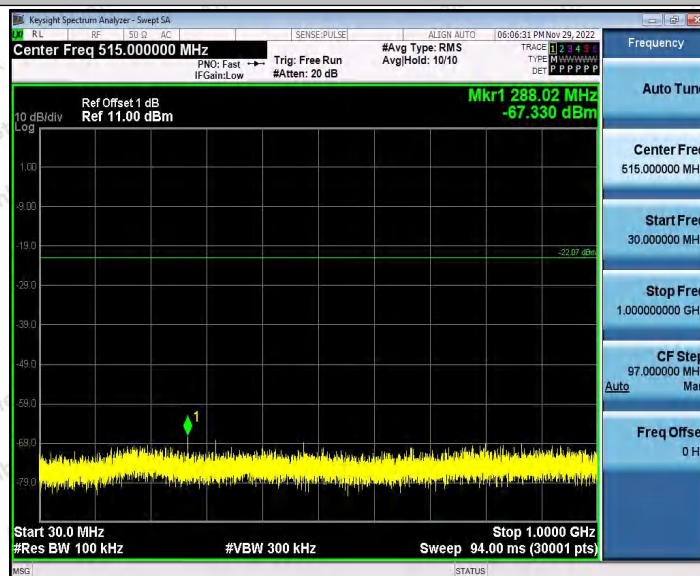




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



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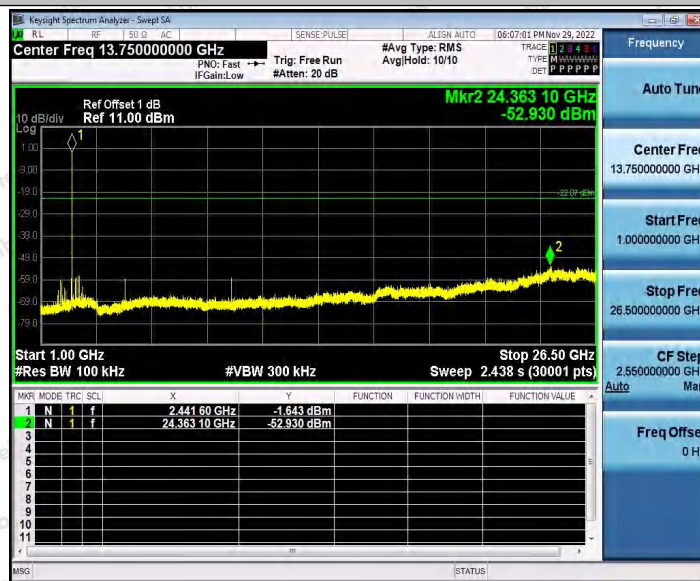
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000

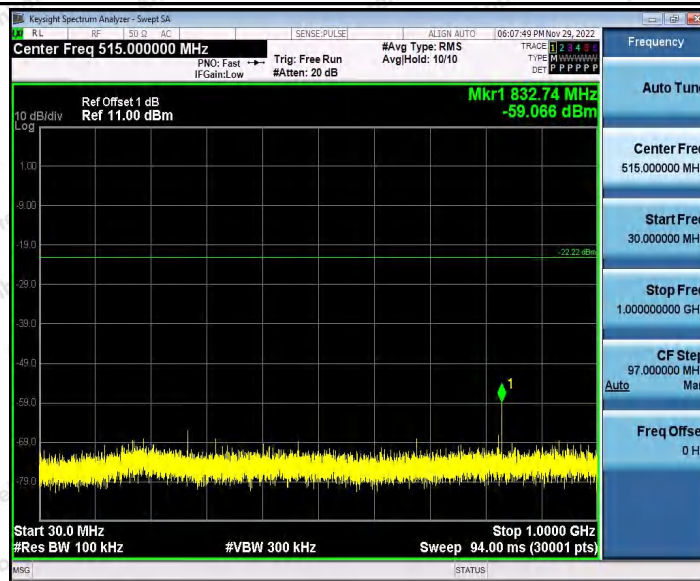
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



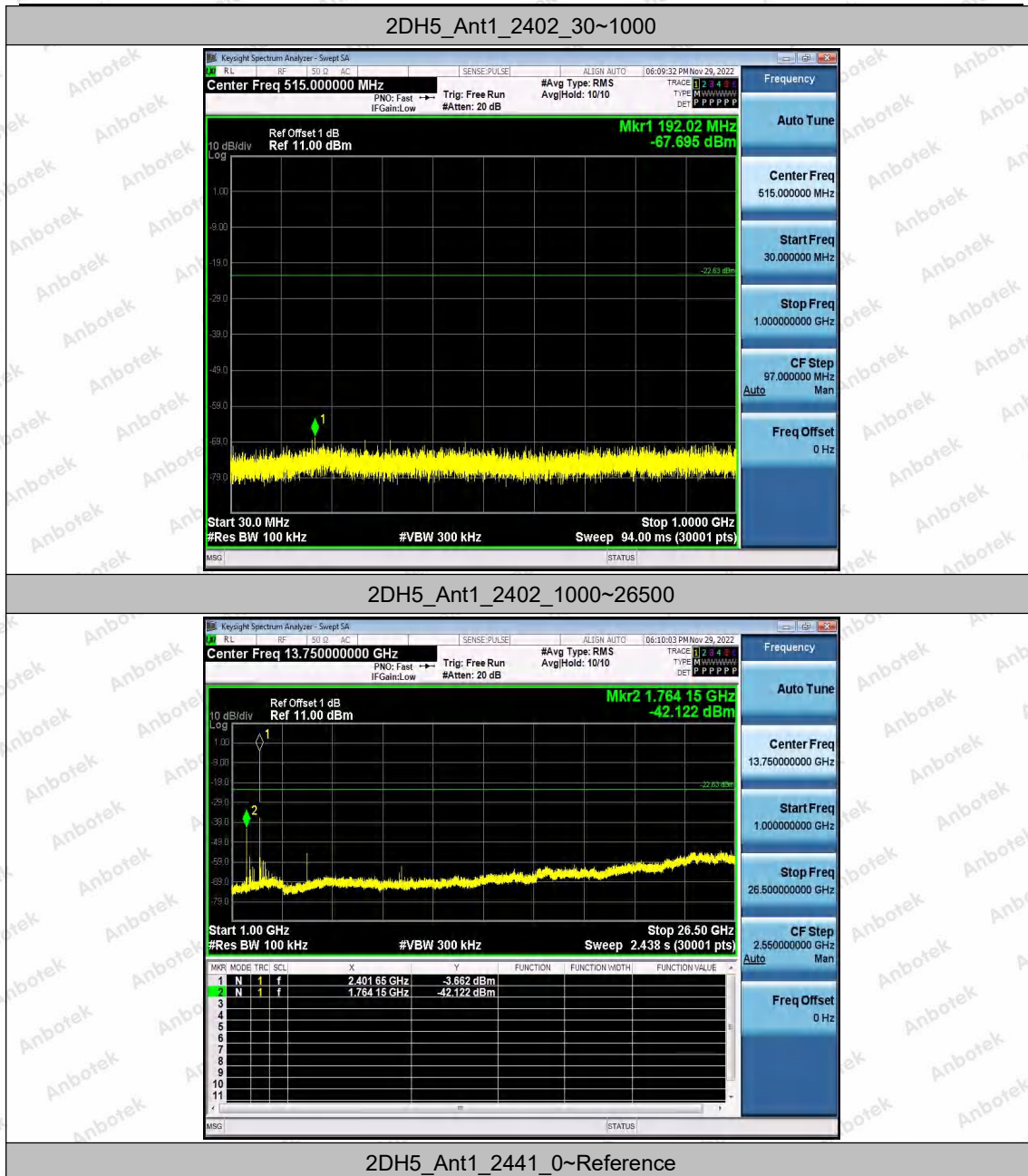
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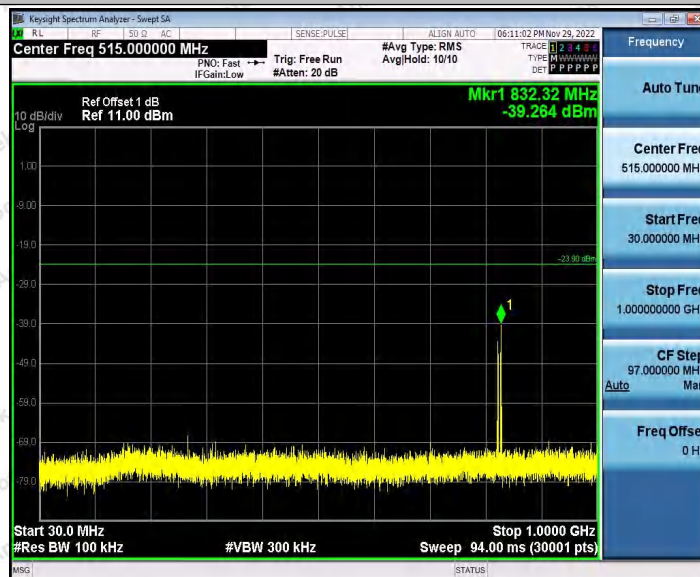


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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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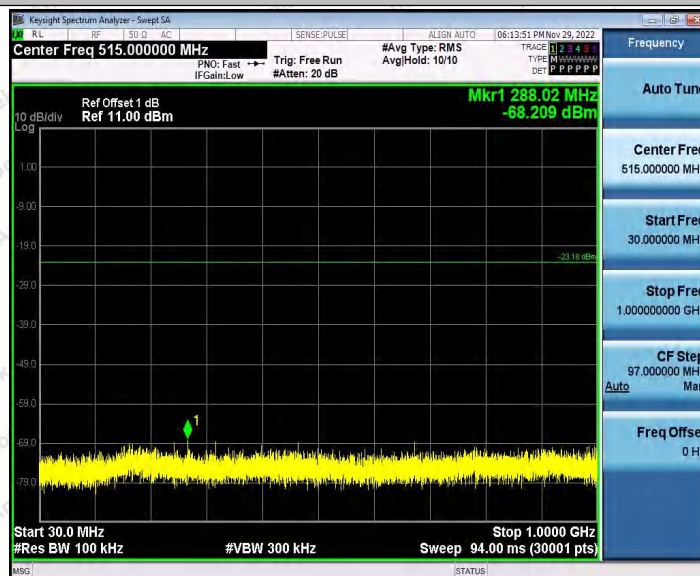
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

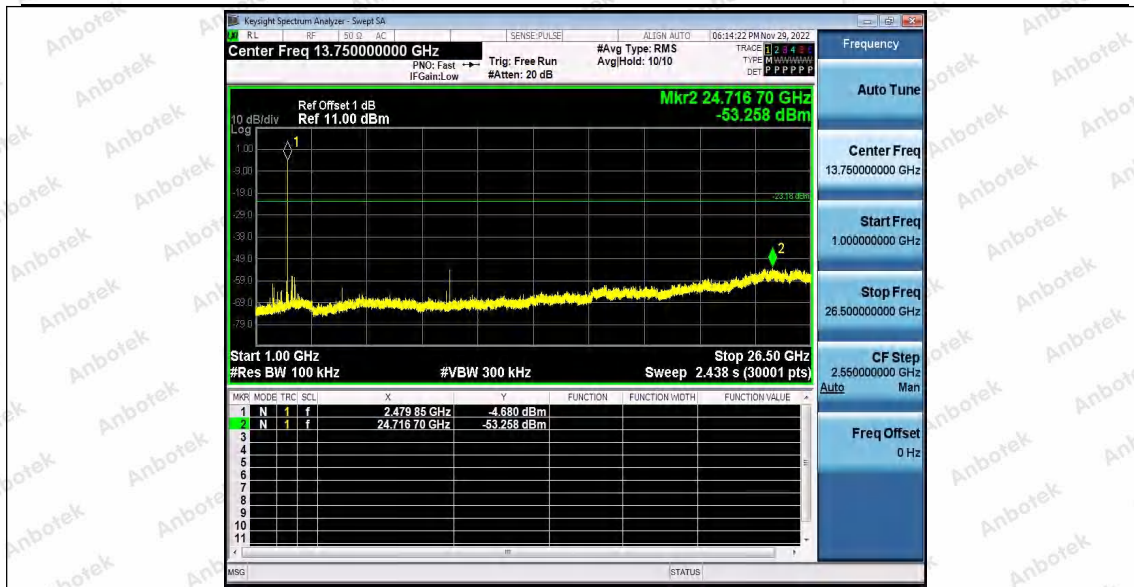
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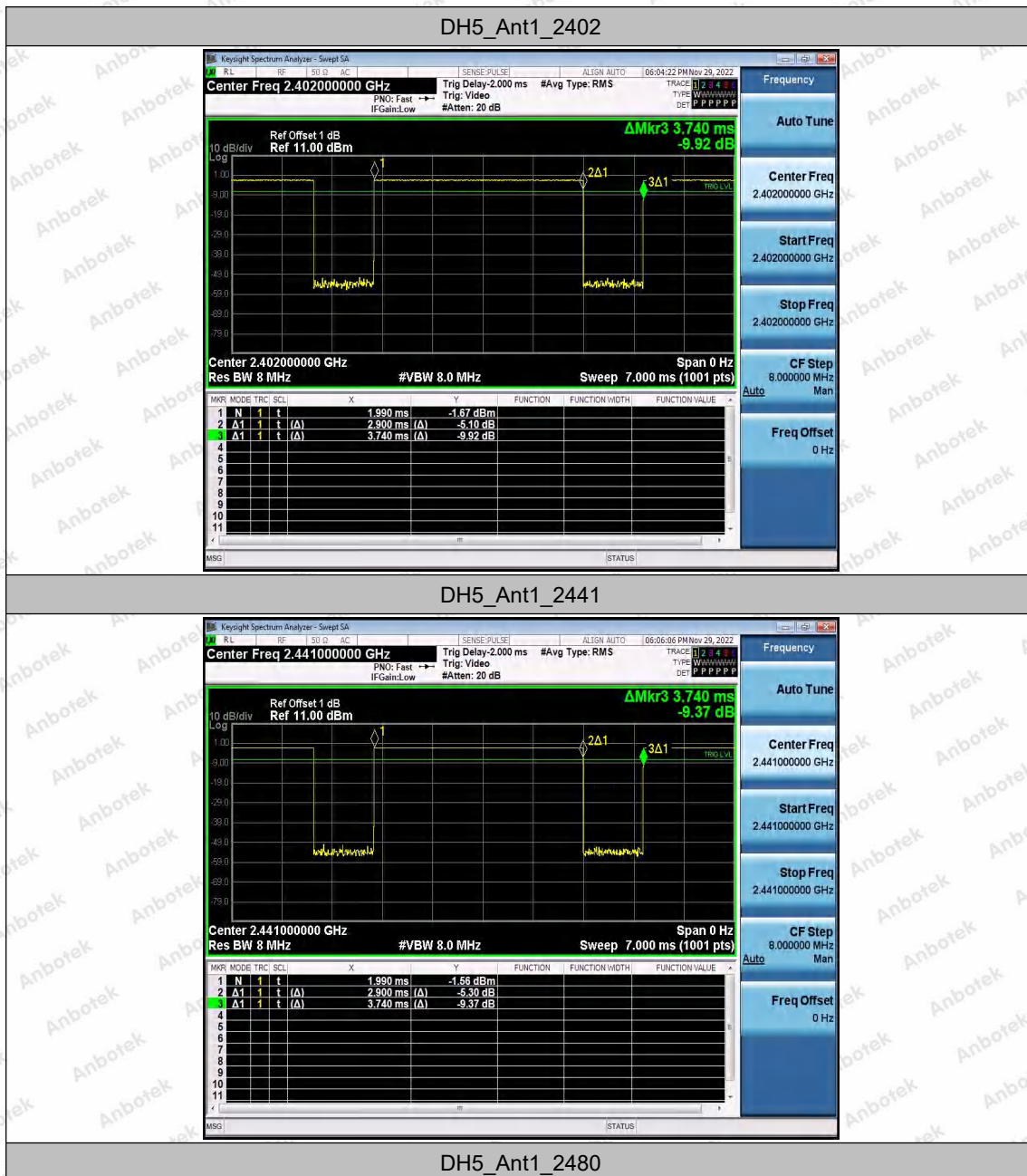
Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.90	3.74	77.54	1.10
		2441	2.90	3.74	77.54	1.10
		2480	2.91	3.75	77.60	1.10
2DH5	Ant1	2402	2.91	3.75	77.60	1.10
		2441	2.92	3.75	77.87	1.09
		2480	2.91	3.74	77.81	1.09



Test Graphs



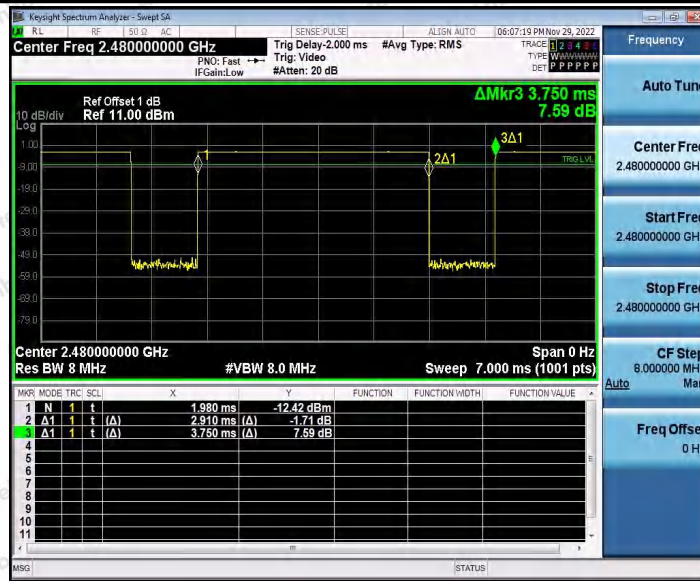
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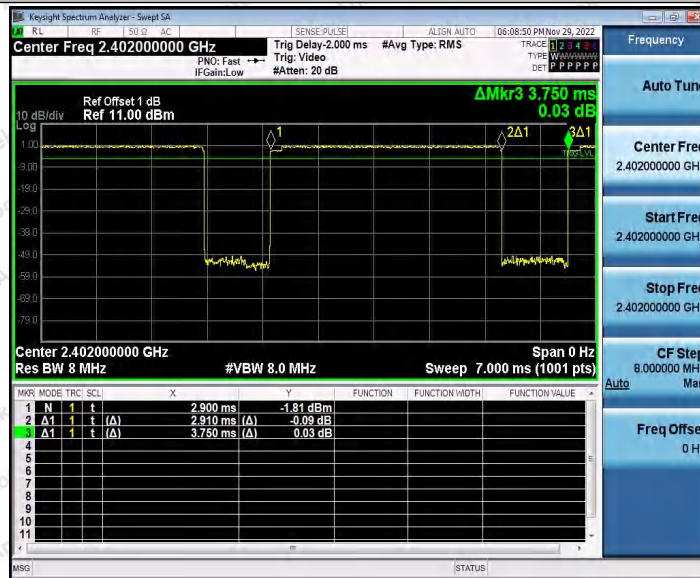


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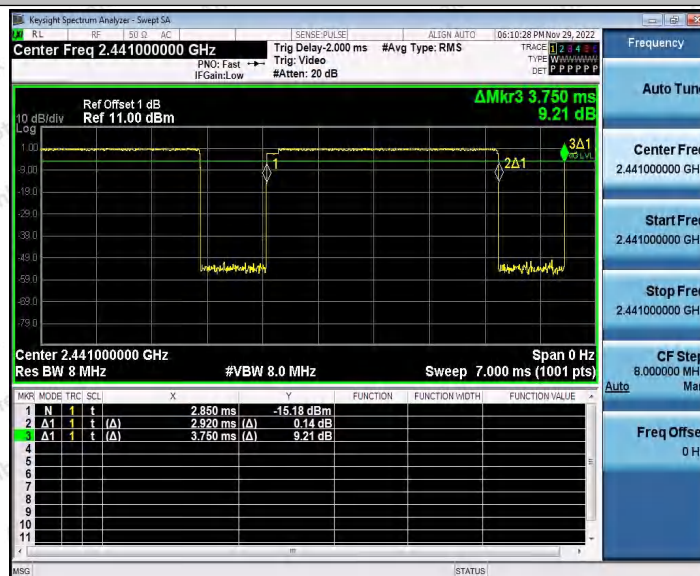




2DH5_Ant1_2402



2DH5_Ant1_2441



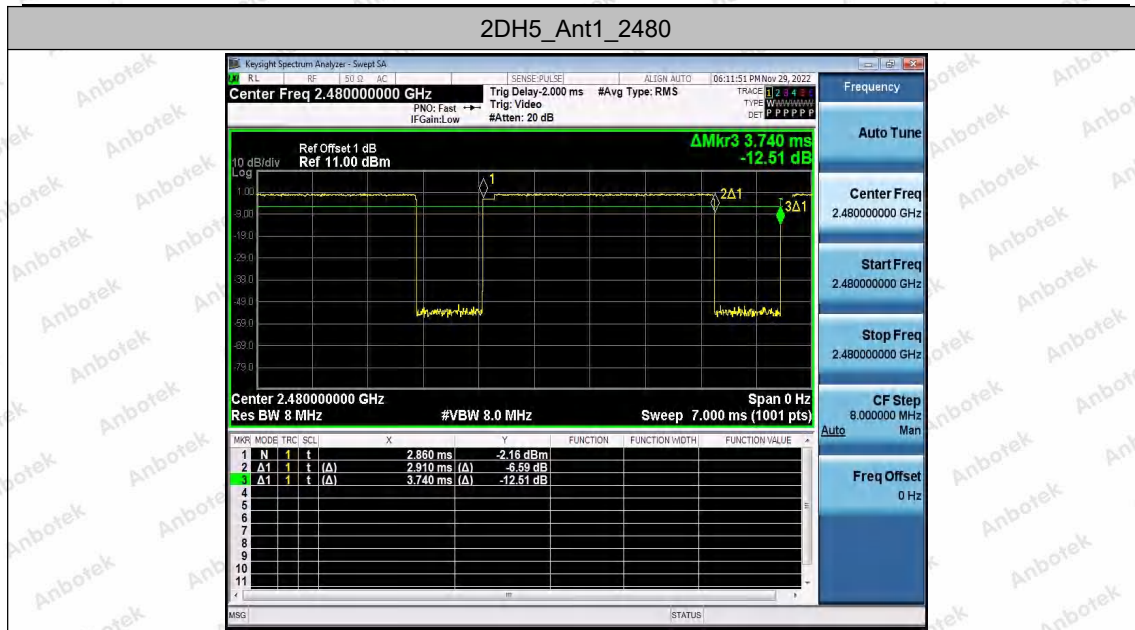
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