

Appendix Test Data

Report No.:	18220WC30004301	Test Sample No.:	1-2-2
Start Test Date:	2023.1.10	Finish Test Date:	2023.1.12
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3℃	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	0.936	2401.523	2402.459
		2441	0.957	2440.517	2441.474
		2480	0.954	2479.517	2480.471
2DH5	Ant1	2402	1.326	2401.319	2402.645
		2441	1.275	2440.361	2441.636
		2480	1.284	2479.352	2480.636



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	0.85444	2401.5524	2402.4069
		2441	0.86330	2440.5517	2441.4150
		2480	0.86434	2479.5477	2480.4120
2DH5	Ant1	2402	1.1945	2401.3865	2402.5810
		2441	1.1971	2440.3846	2441.5817
		2480	1.1781	2479.3921	2480.5702

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2DH5_Ant1_2402



2DH5_Ant1_2441



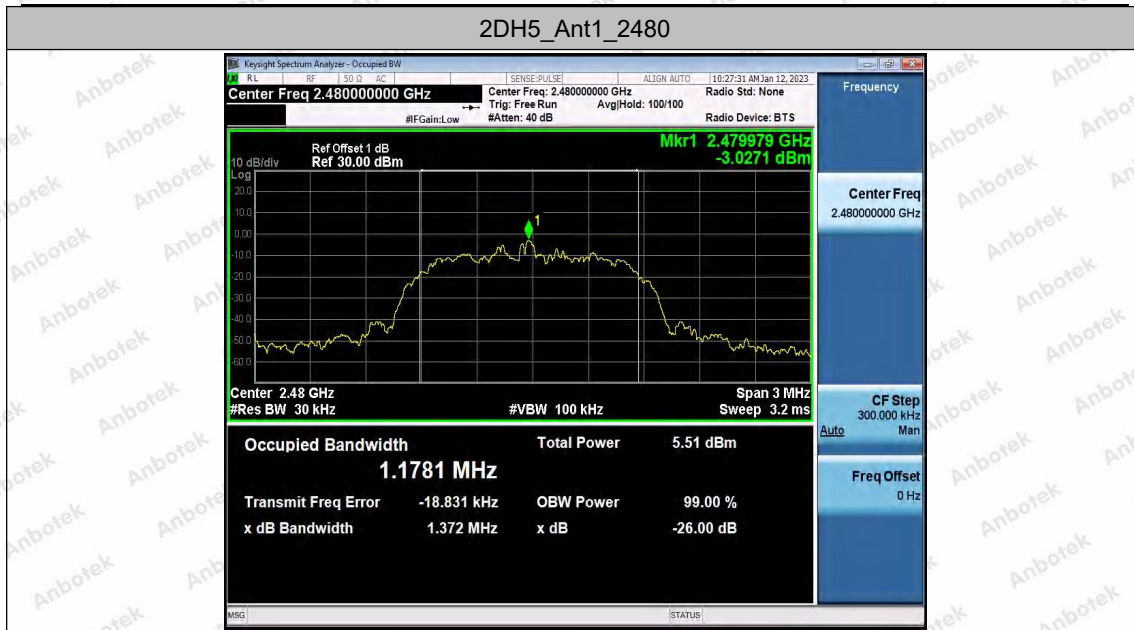
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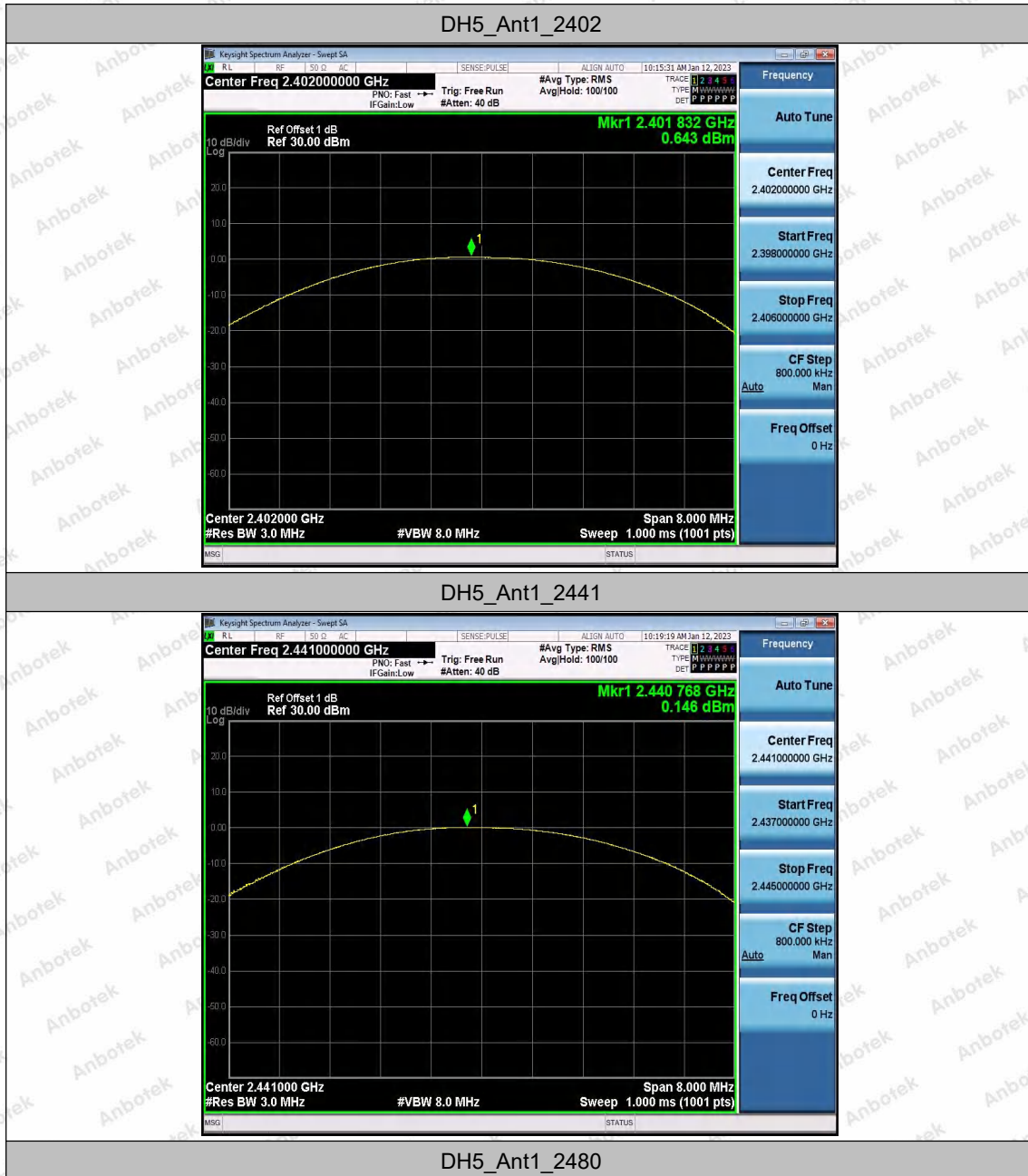
Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.64	≤20.97	PASS
		2441	0.15	≤20.97	PASS
		2480	-0.63	≤20.97	PASS
2DH5	Ant1	2402	1.62	≤20.97	PASS
		2441	1.06	≤20.97	PASS
		2480	0.25	≤20.97	PASS



Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441



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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	0.383	316	0.121	≤0.4	PASS
DH3	Ant1	Hop	1.637	156	0.255	≤0.4	PASS
DH5	Ant1	Hop	2.885	106	0.306	≤0.4	PASS
2DH1	Ant1	Hop	0.390	316	0.123	≤0.4	PASS
2DH3	Ant1	Hop	1.642	169	0.277	≤0.4	PASS
2DH5	Ant1	Hop	2.891	113	0.327	≤0.4	PASS

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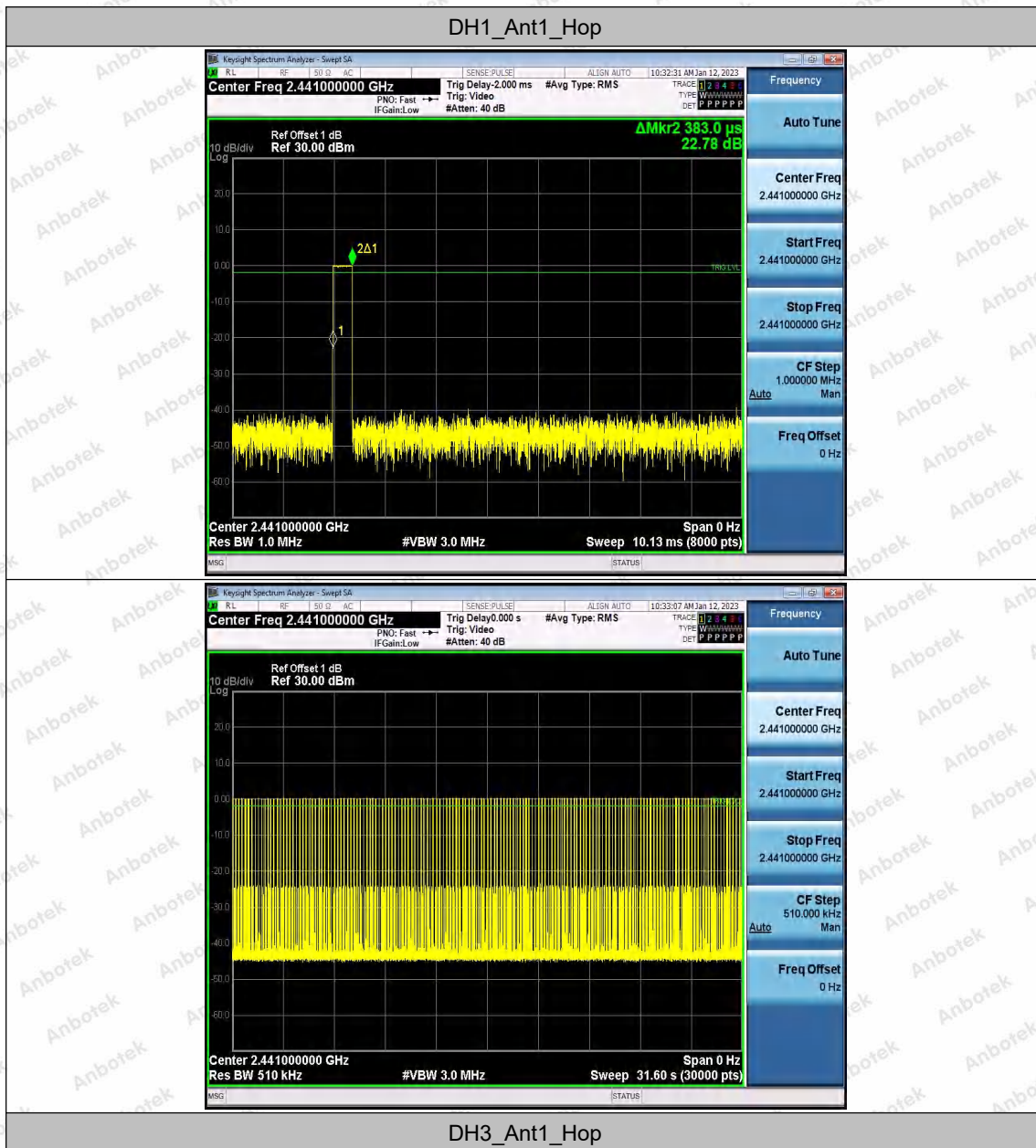
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Test Graphs



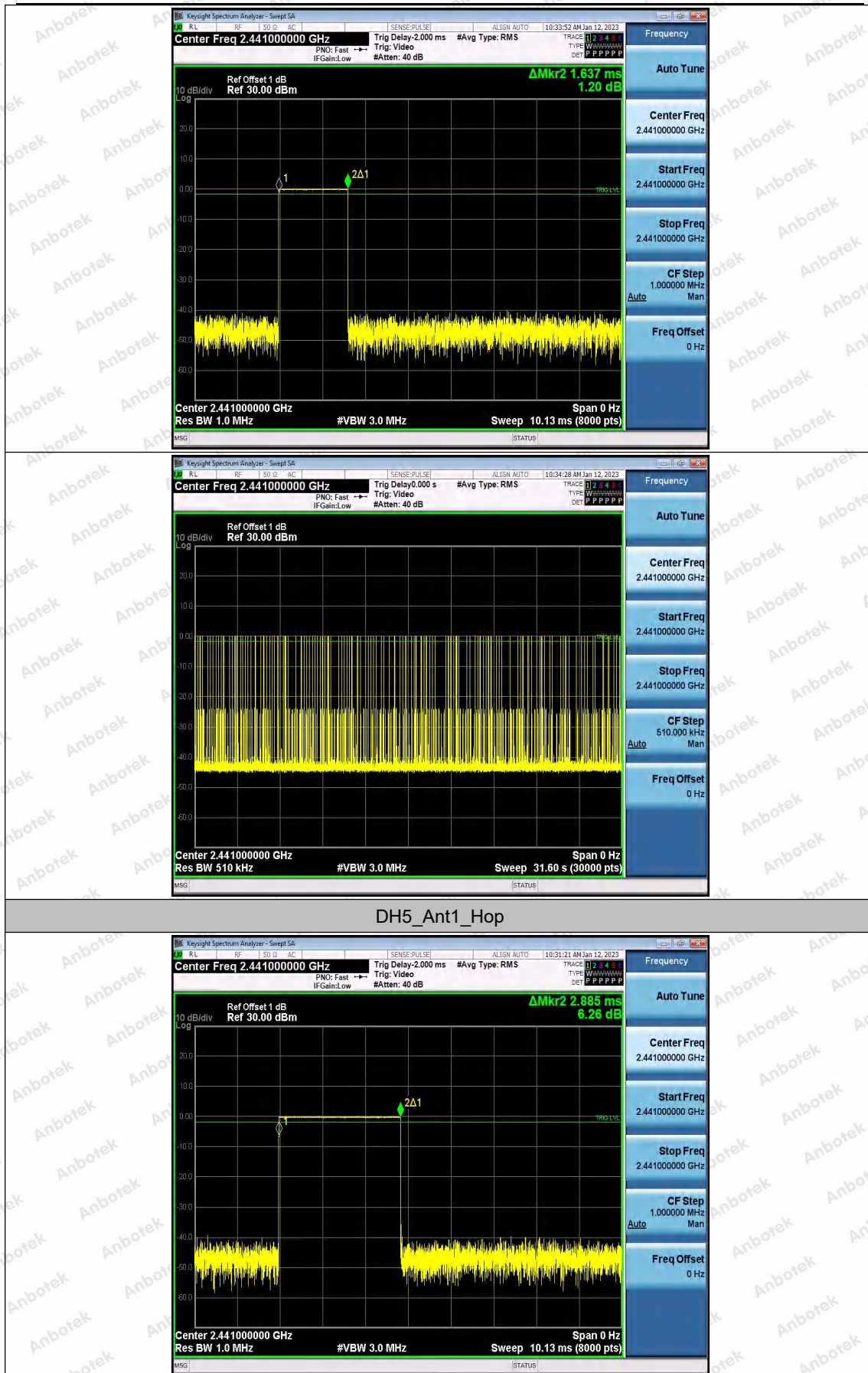
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DH5_Ant1_Hop

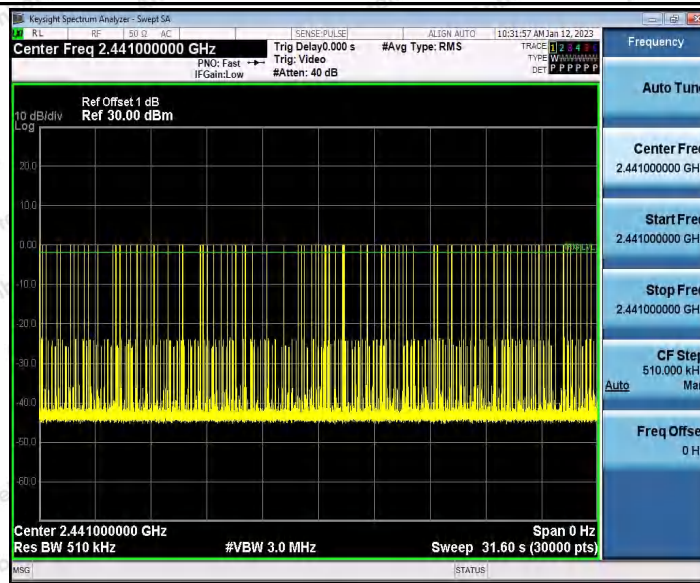
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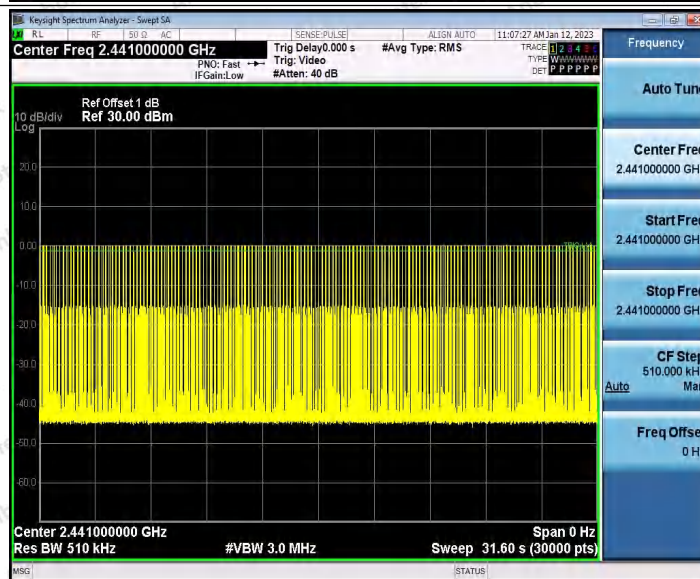
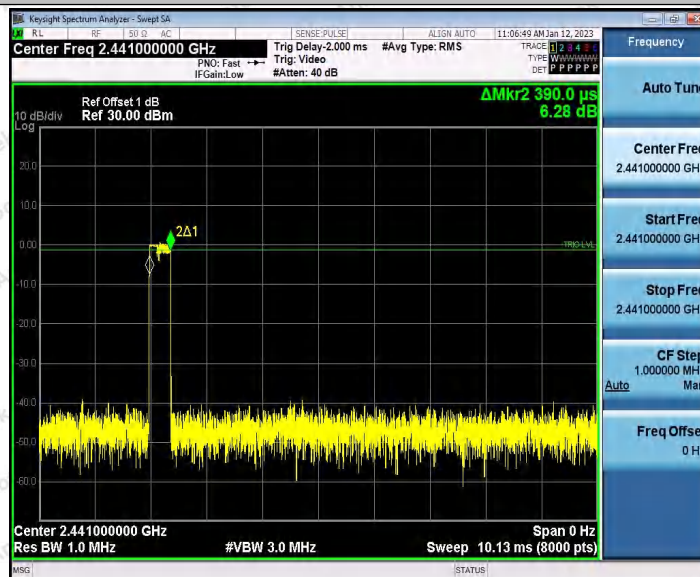


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2DH1_Ant1_Hop



2DH3_Ant1_Hop

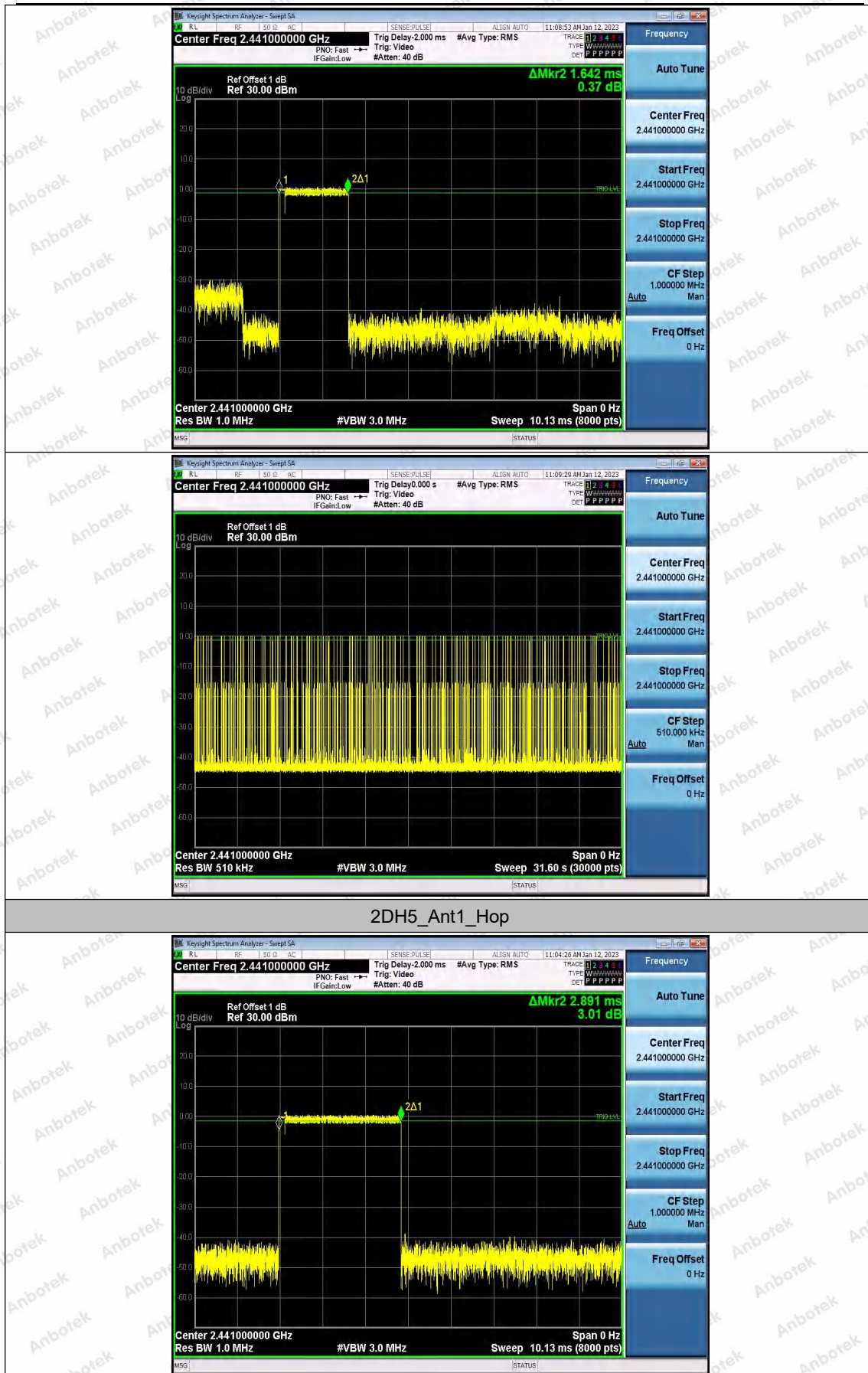
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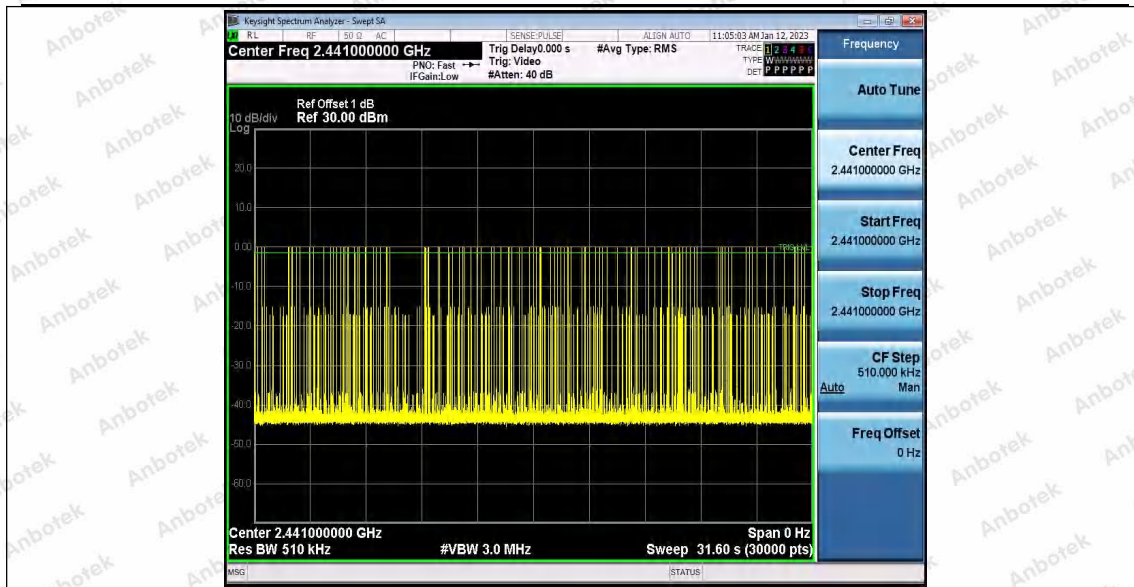
2DH5_Ant1_Hop

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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



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Appendix G: Band edge measurements

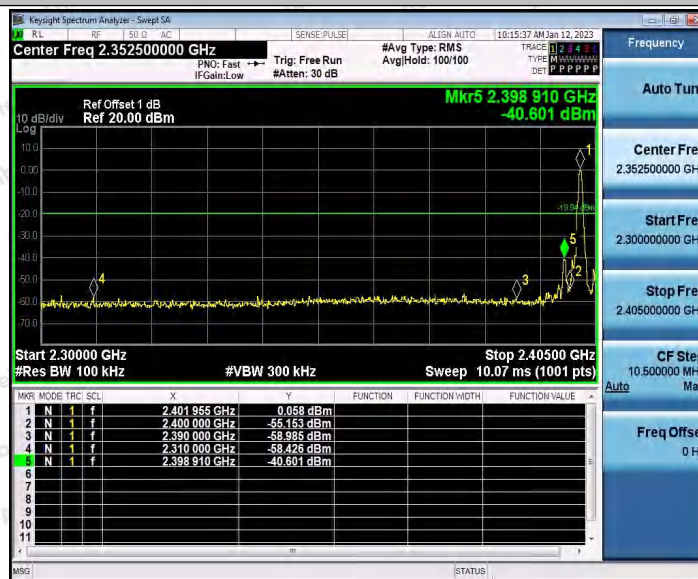
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.06	-40.6	≤-19.94	PASS
		High	2480	-1.01	-47.8	≤-21.01	PASS
		Low	Hop_2402	-0.27	-56.46	≤-20.27	PASS
		High	Hop_2480	-0.77	-39.08	≤-20.77	PASS
2DH5	Ant1	Low	2402	-0.64	-43.92	≤-20.64	PASS
		High	2480	-1.40	-51.05	≤-21.4	PASS
		Low	Hop_2402	-0.44	-55.91	≤-20.44	PASS
		High	Hop_2480	-0.51	-56.42	≤-20.51	PASS

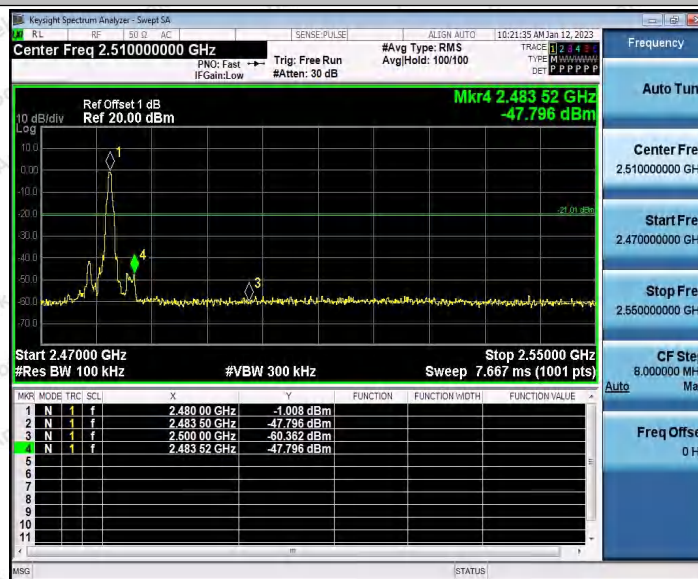


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

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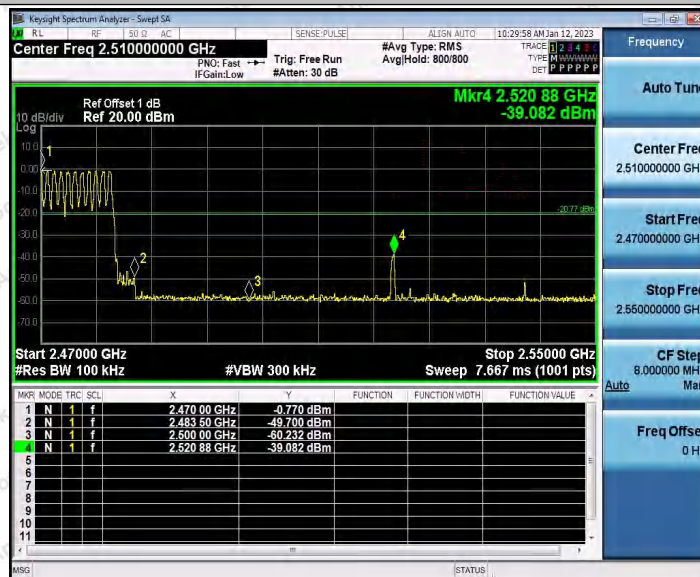


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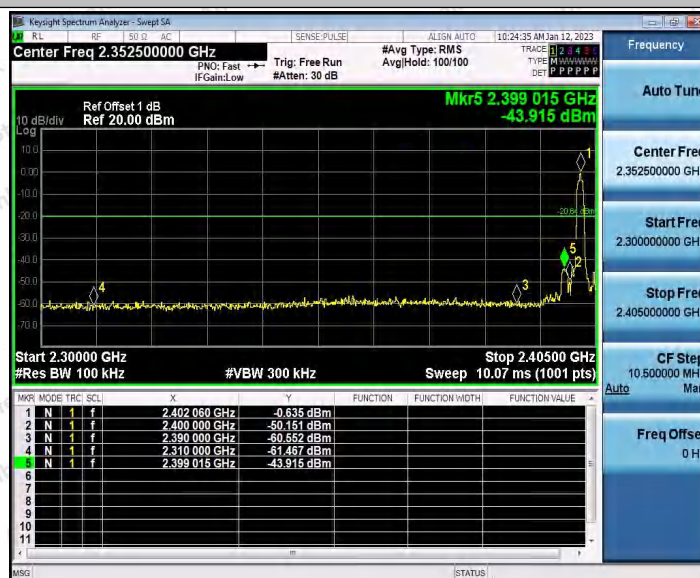




DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402



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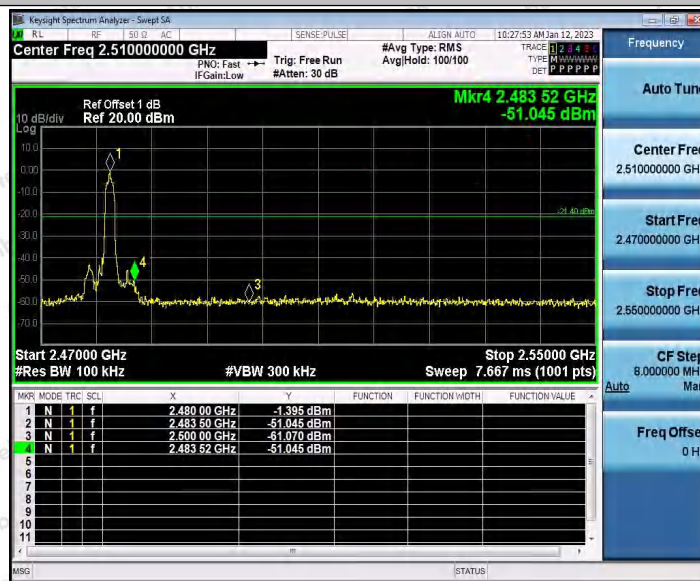
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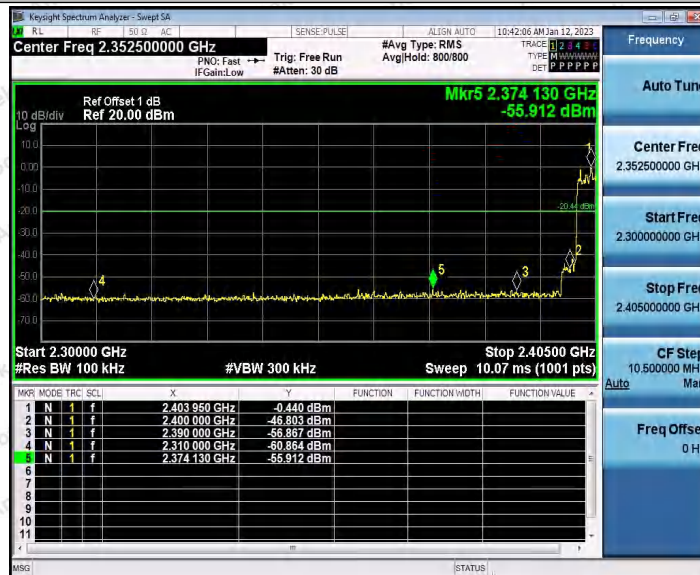
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

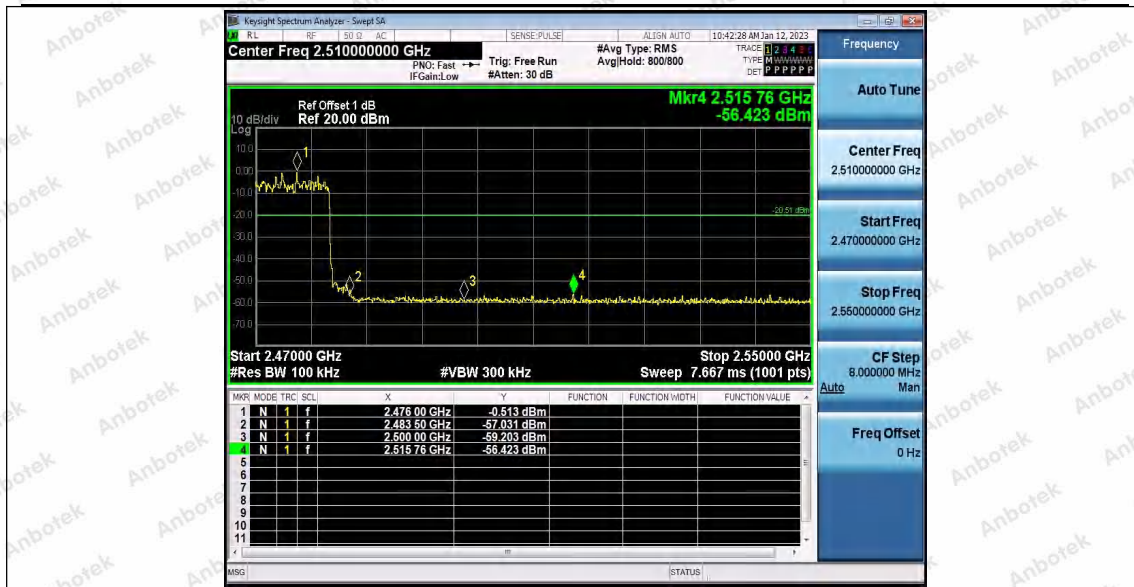
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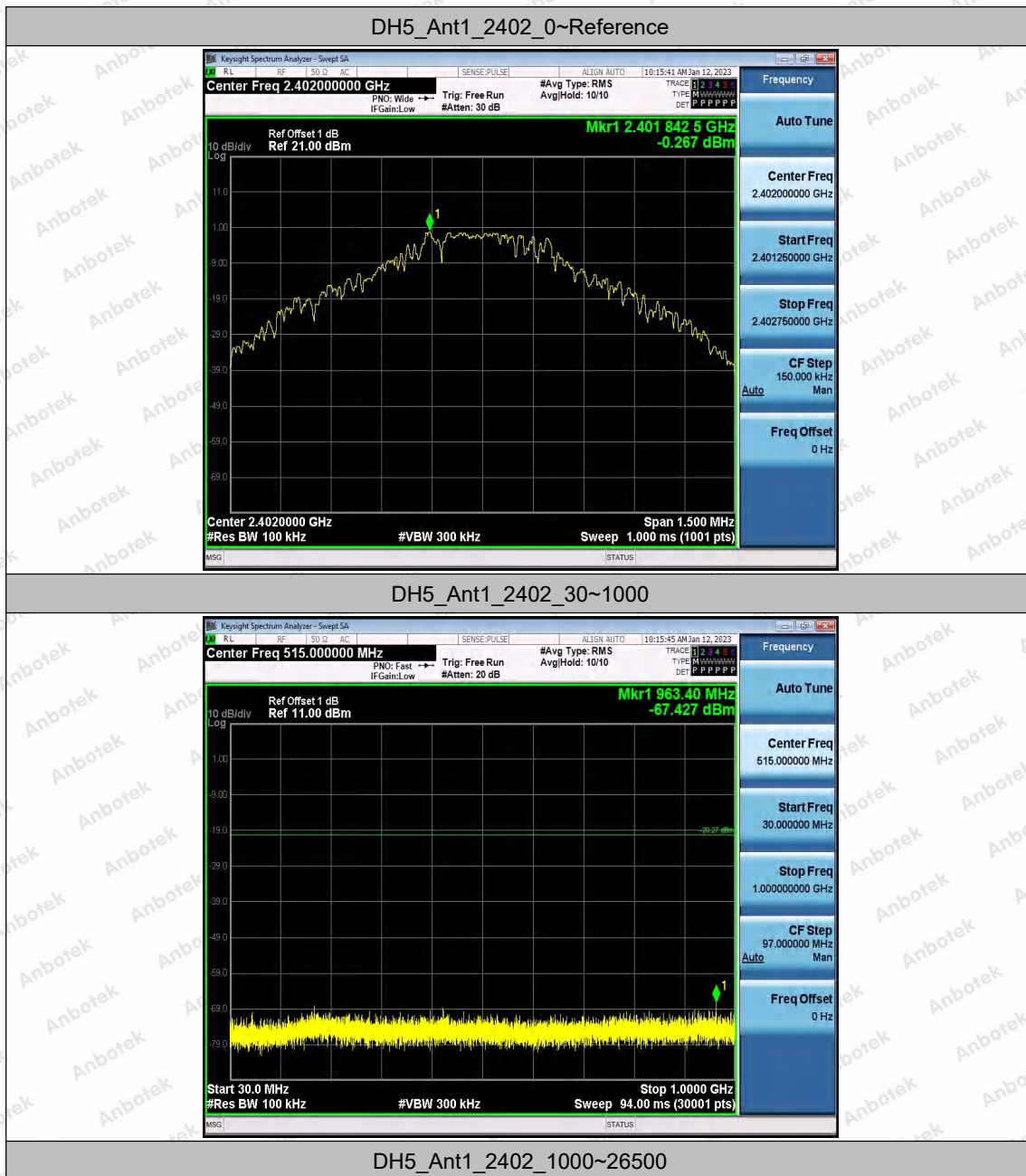
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.27	-0.27	---	PASS
			30~1000	-0.27	-67.43	≤-20.27	PASS
			1000~26500	-0.27	-35.97	≤-20.27	PASS
		2441	Reference	-0.34	-0.34	---	PASS
			30~1000	-0.34	-68.03	≤-20.34	PASS
			1000~26500	-0.34	-33.28	≤-20.34	PASS
		2480	Reference	-1.59	-1.59	---	PASS
			30~1000	-1.59	-68.49	≤-21.59	PASS
			1000~26500	-1.59	-35.85	≤-21.59	PASS
2DH5	Ant1	2402	Reference	0.41	0.41	---	PASS
			30~1000	0.41	-67.9	≤-19.59	PASS
			1000~26500	0.41	-35.98	≤-19.59	PASS
		2441	Reference	-0.19	-0.19	---	PASS
			30~1000	-0.19	-66.98	≤-20.19	PASS
			1000~26500	-0.19	-33.4	≤-20.19	PASS
		2480	Reference	-2.46	-2.46	---	PASS
			30~1000	-2.46	-66.97	≤-22.46	PASS
			1000~26500	-2.46	-35.94	≤-22.46	PASS



Test Graphs



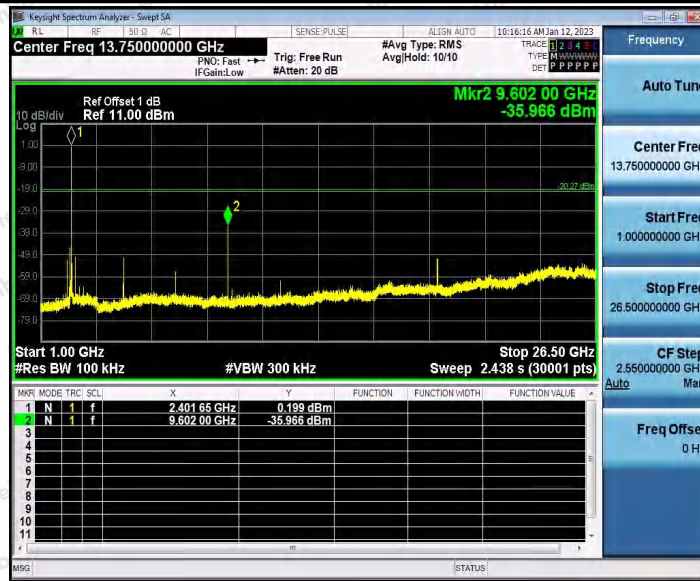
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DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



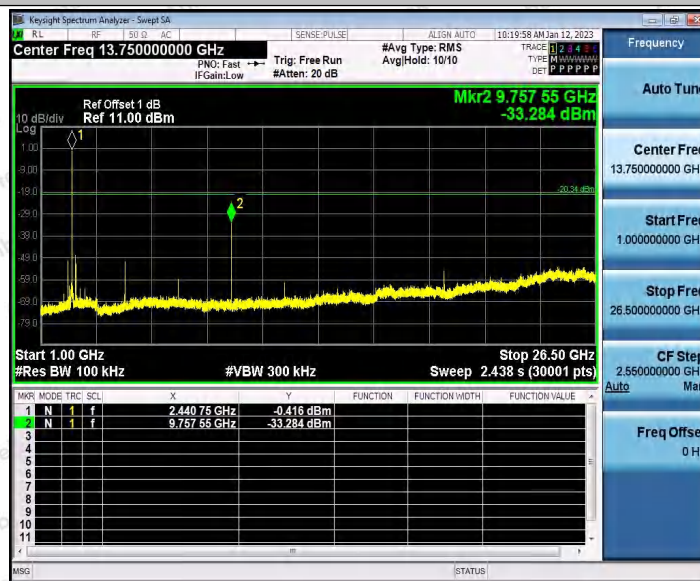
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000

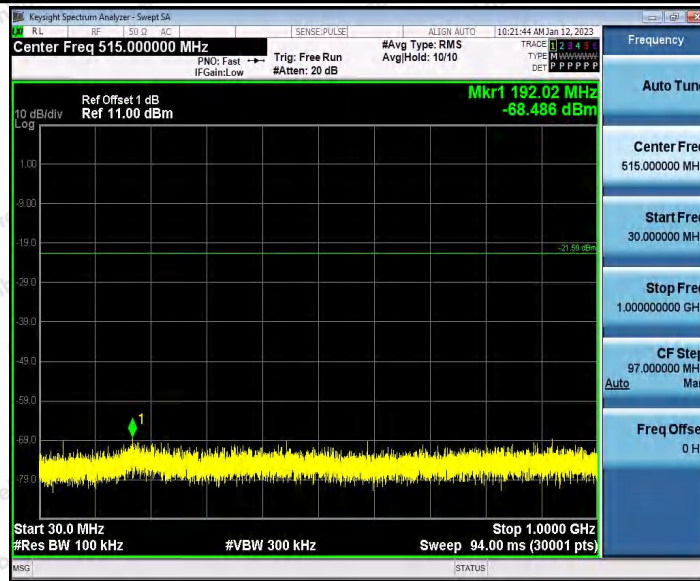
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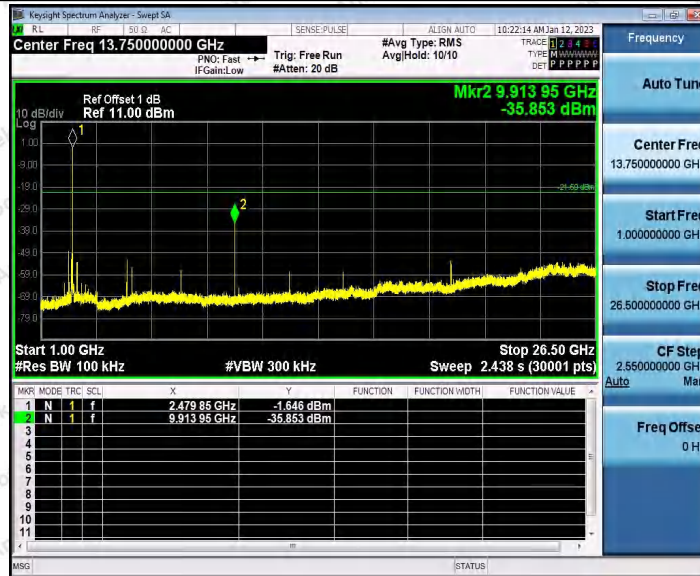


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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



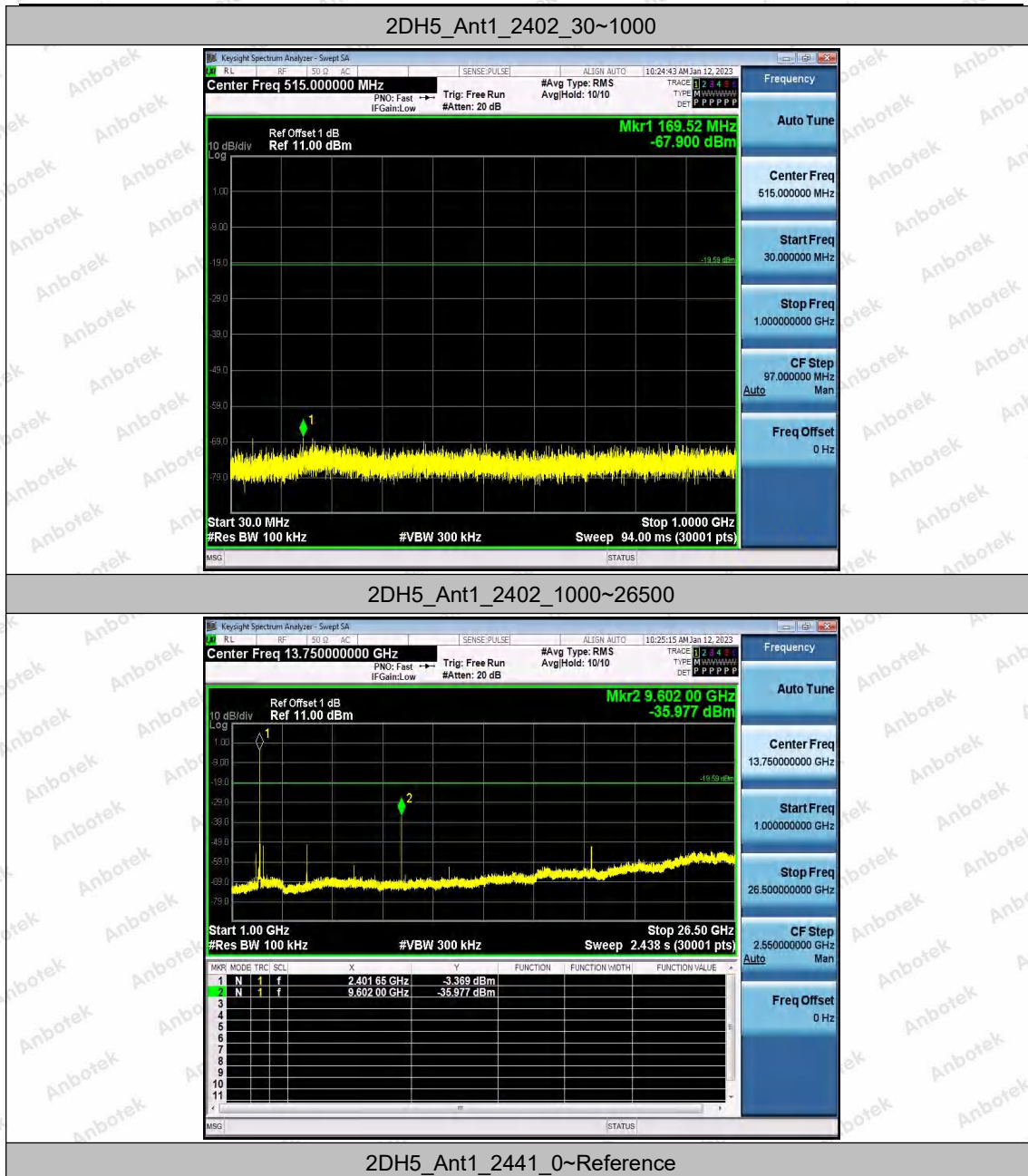
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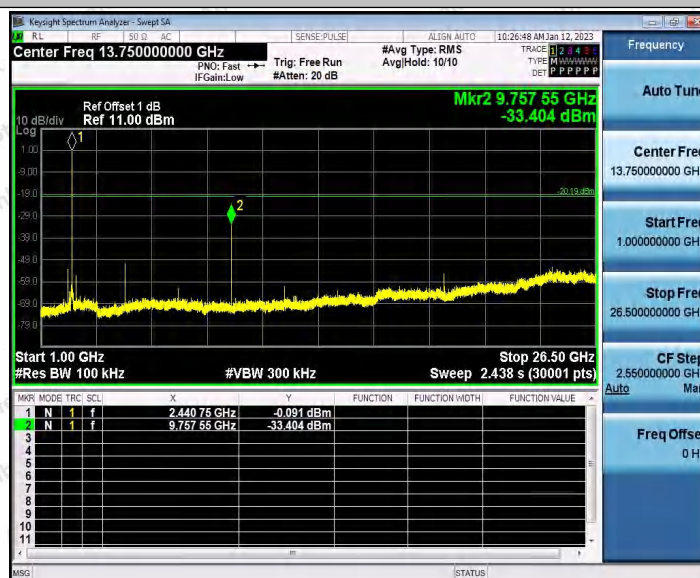




2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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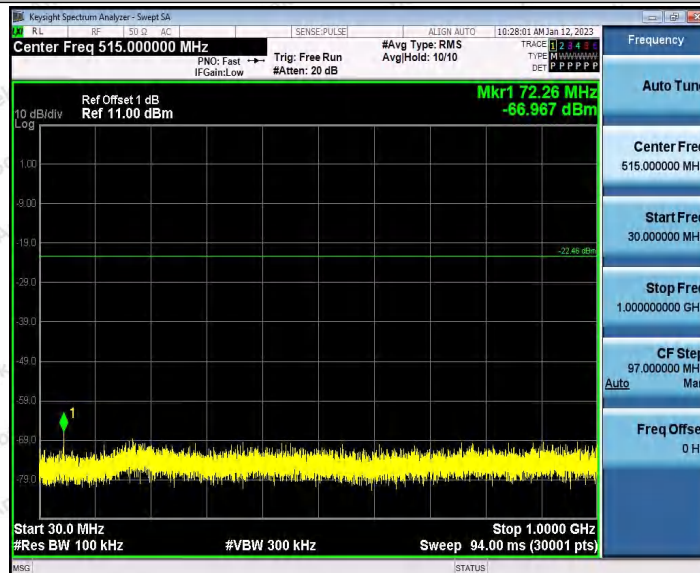
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

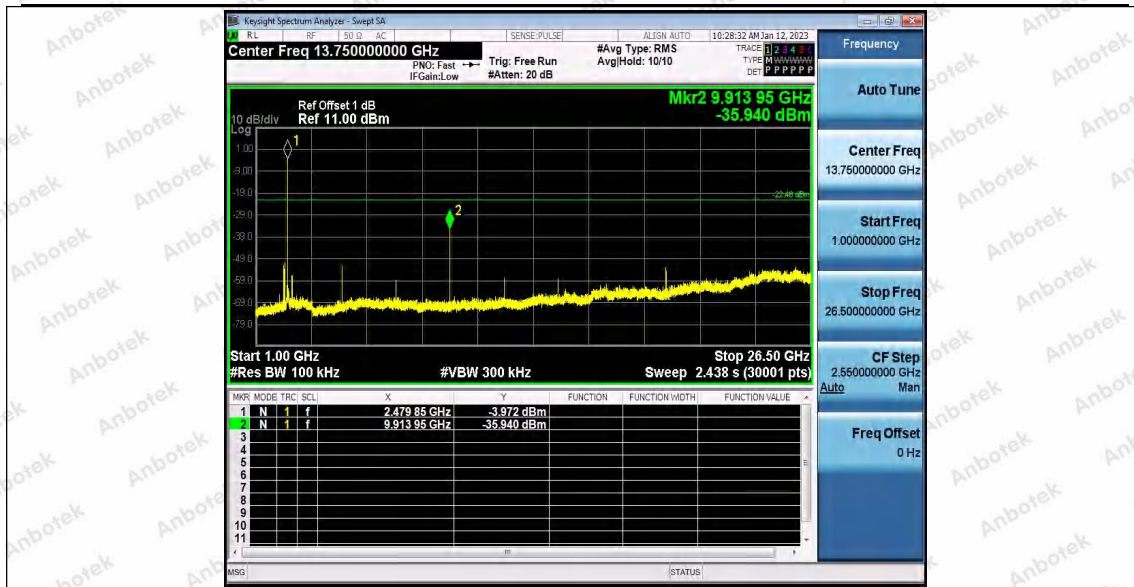
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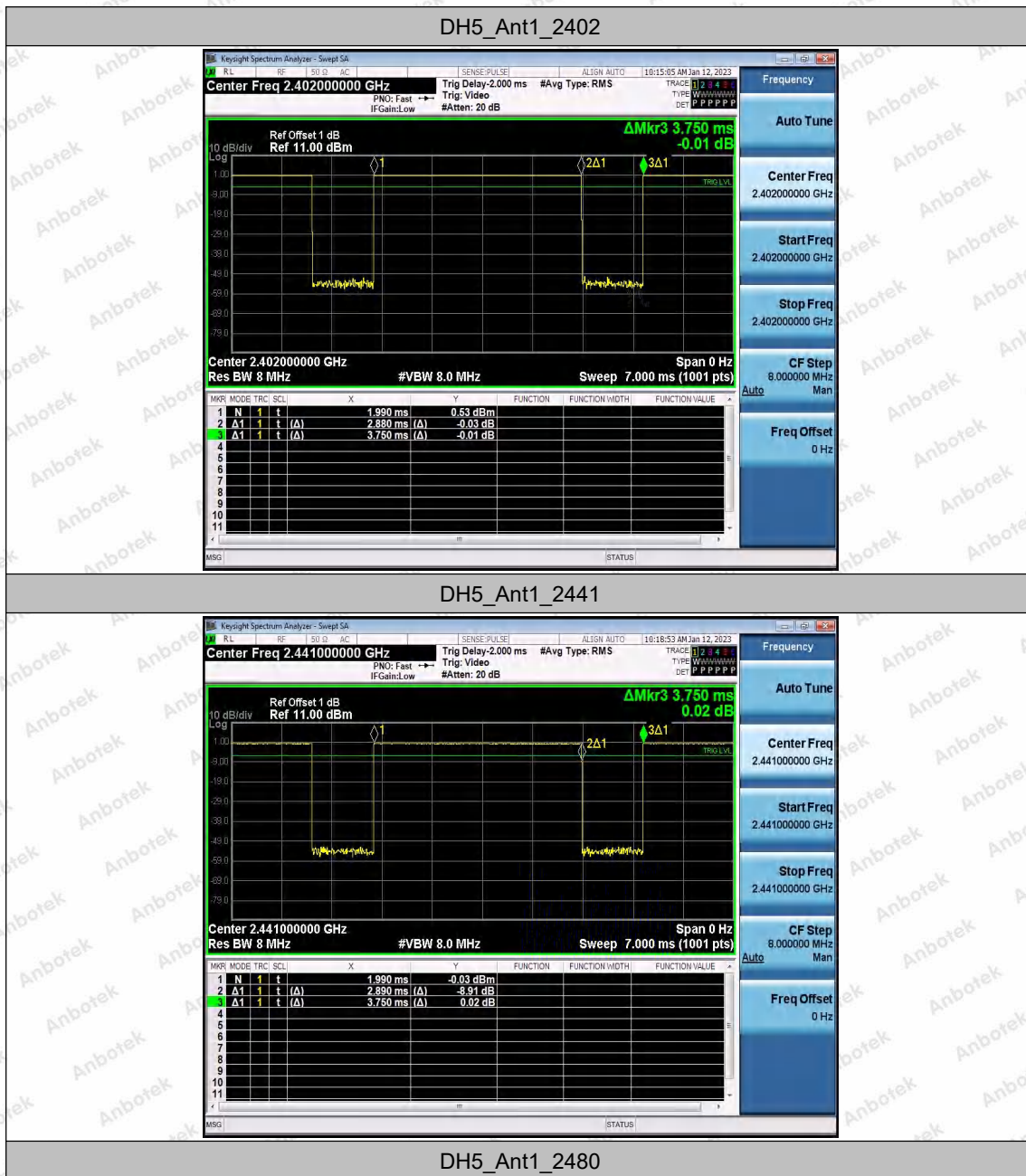
Appendix I: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.88	3.75	76.80	1.15
		2441	2.89	3.75	77.07	1.13
		2480	2.89	3.75	77.07	1.13
2DH5	Ant1	2402	2.89	3.75	77.07	1.13
		2441	2.89	3.74	77.27	1.12
		2480	2.89	3.75	77.07	1.13



Test Graphs



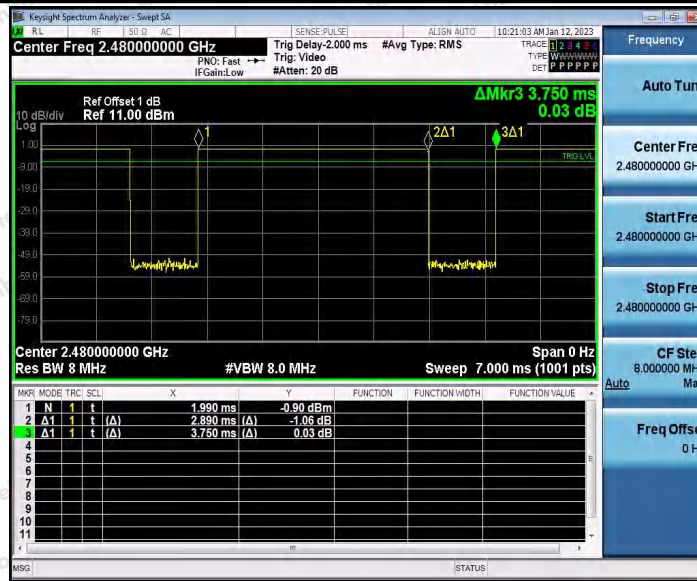
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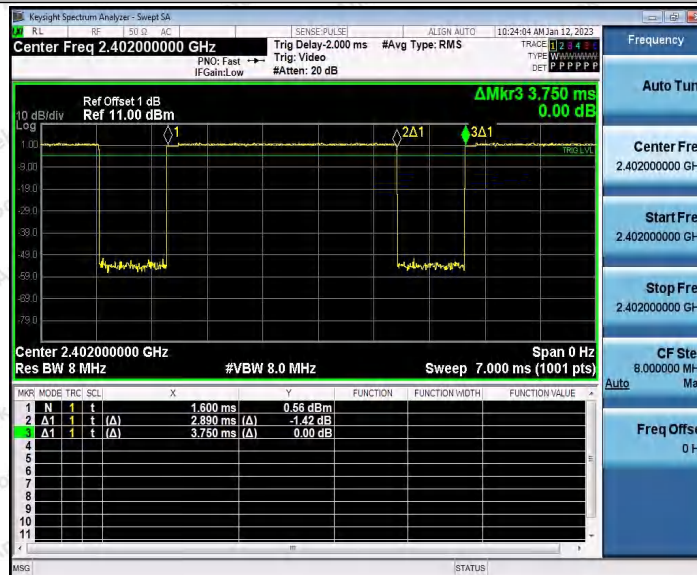


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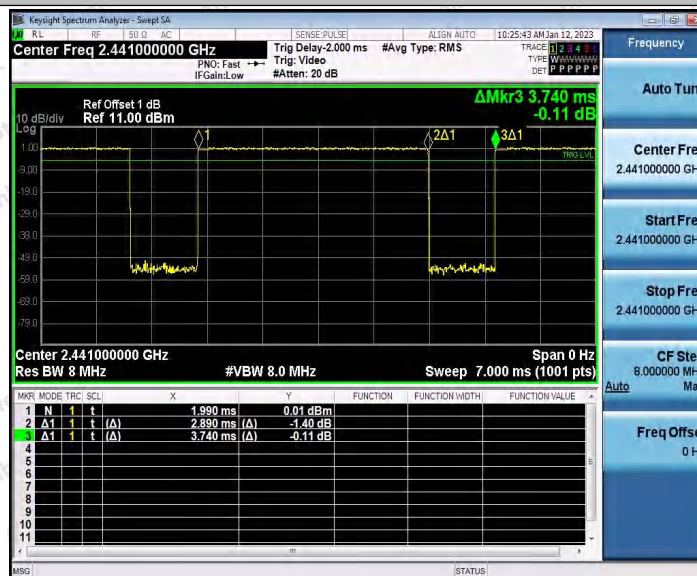




2DH5_Ant1_2402



2DH5 Ant1 2441



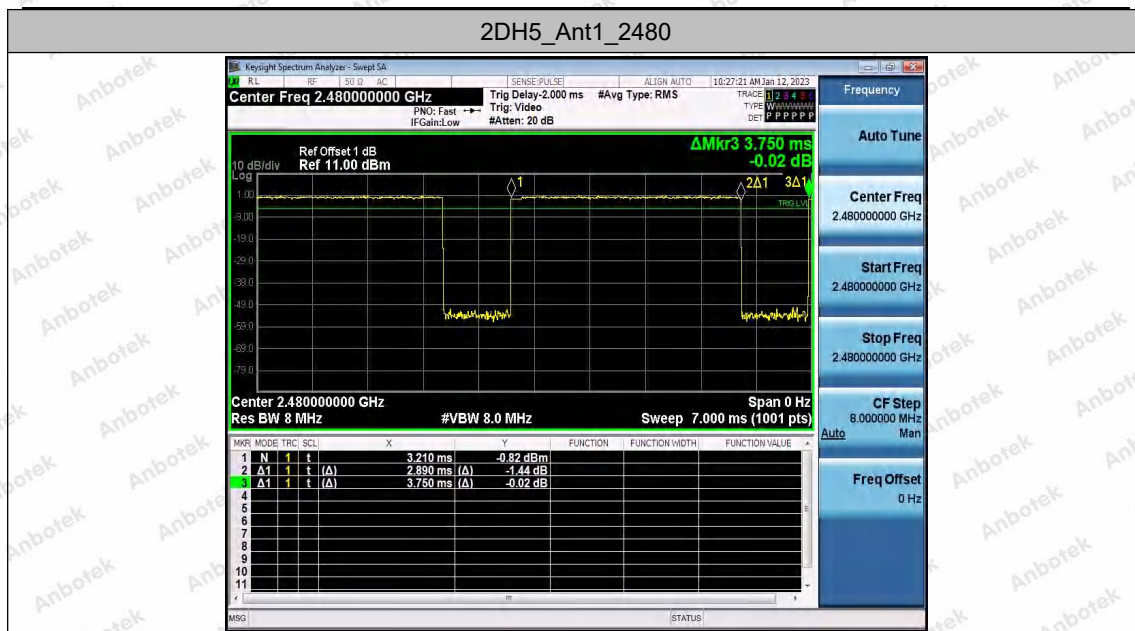
Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community,
Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



Hotline
400-003-0500
w.anbotek.com.cn





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