

Appendix Test Data

Report No.:	18220WC20287001	Test Sample No.:	1-2-2
Start Test Date:	2022.12.14	Finish Test Date:	2022.12.20
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	24.3℃	Relative Humidity:	40 %
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	0.966	2401.517	2402.483
		2441	1.008	2440.481	2441.489
		2480	0.990	2479.487	2480.477
2DH5	Ant1	2402	1.314	2401.328	2402.642
		2441	1.293	2440.352	2441.645
		2480	1.317	2479.325	2480.642



Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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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	0.89416	2401.5416	2402.4357
		2441	0.87006	2440.5481	2441.4181
		2480	0.88960	2479.5442	2480.4338
2DH5	Ant1	2402	1.1946	2401.3877	2402.5823
		2441	1.1888	2440.3946	2441.5834
		2480	1.1847	2479.3930	2480.5777

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Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441



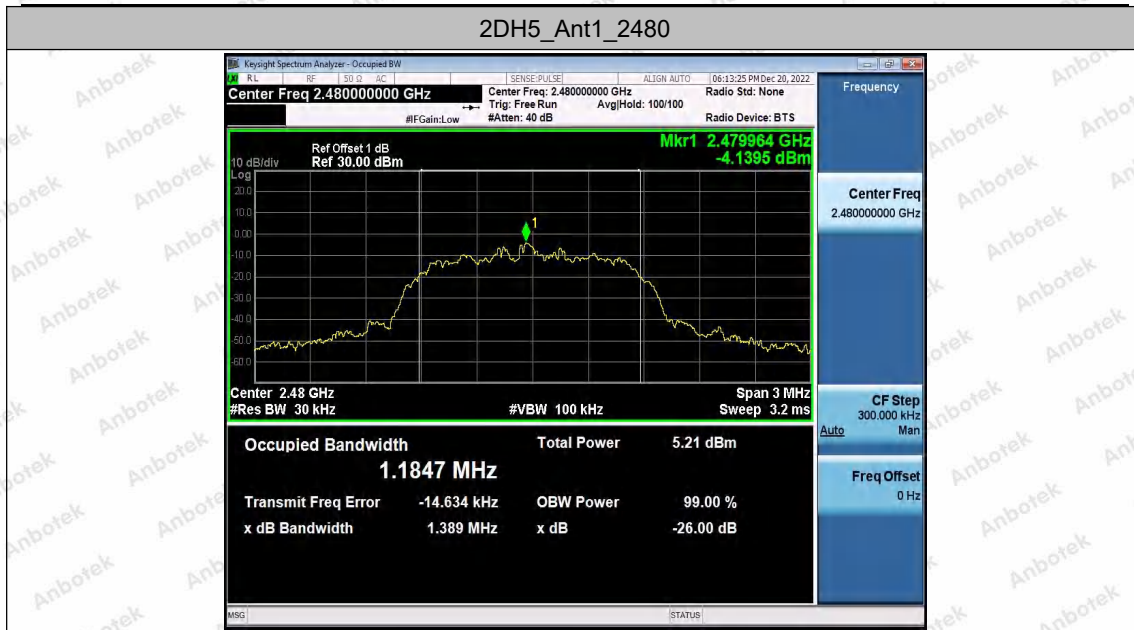
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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	-0.60	≤20.97	PASS
		2441	-0.86	≤20.97	PASS
		2480	-0.94	≤20.97	PASS
2DH5	Ant1	2402	0.35	≤20.97	PASS
		2441	0.08	≤20.97	PASS
		2480	-0.01	≤20.97	PASS



Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441



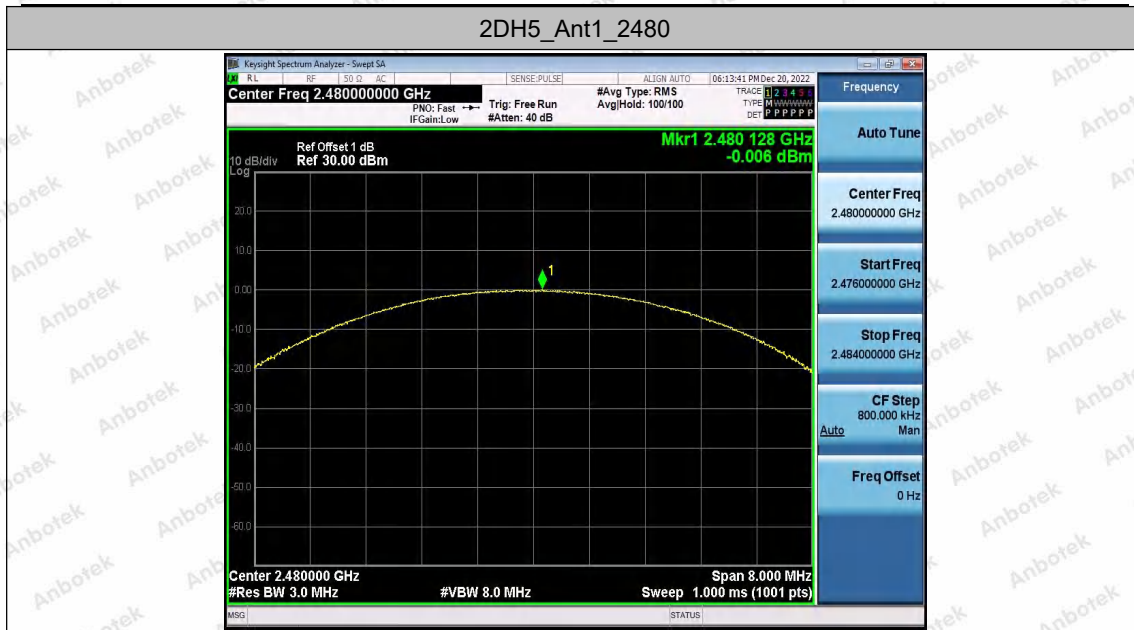
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Appendix D: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.7	≥ 0.672	PASS
2DH5	Ant1	Hop	1.296	≥ 0.878	PASS

Test Graphs



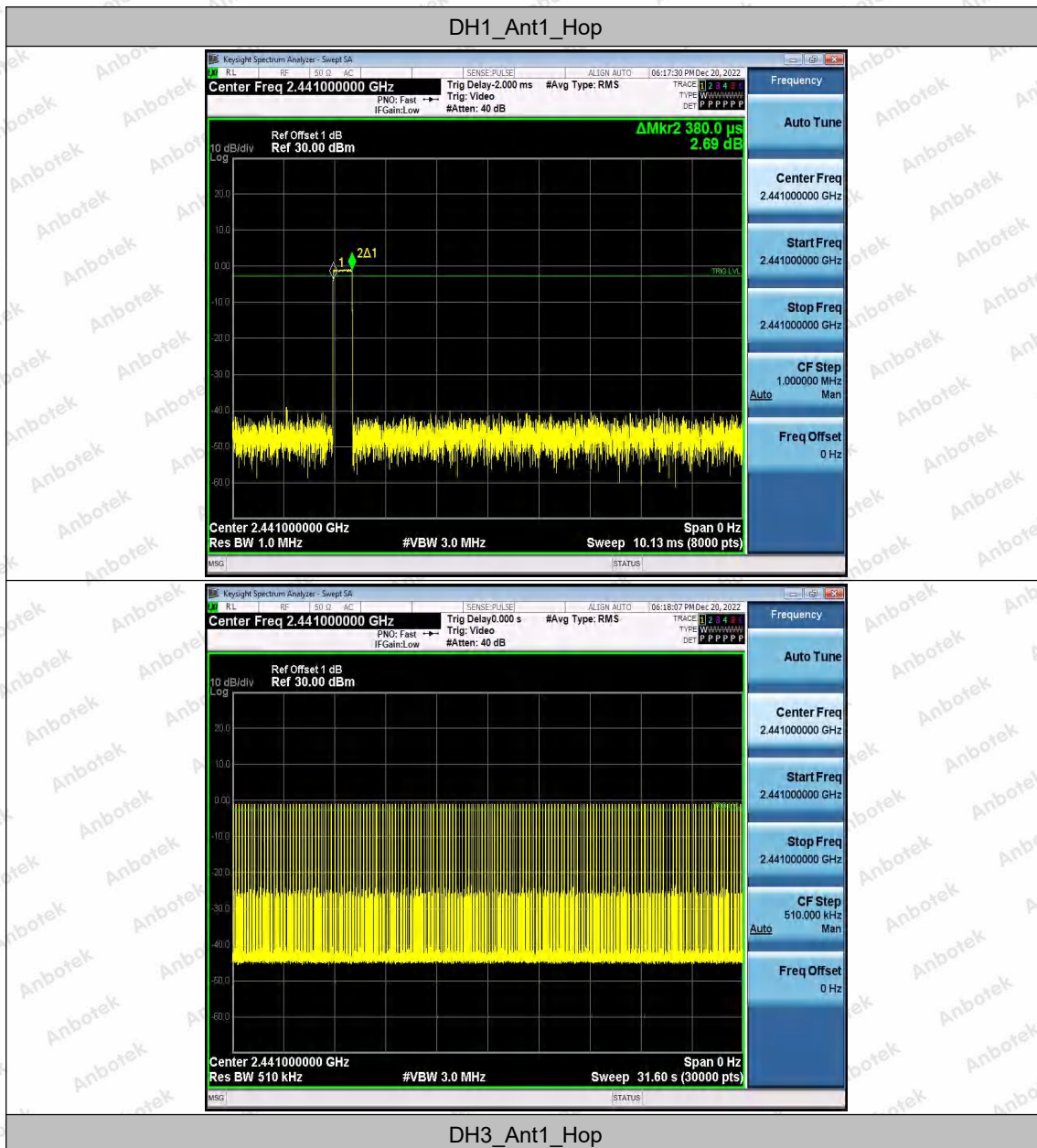
Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.380	317	0.12	≤0.4	PASS
DH3	Ant1	Hop	1.638	158	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.884	84	0.242	≤0.4	PASS
2DH1	Ant1	Hop	0.390	318	0.124	≤0.4	PASS
2DH3	Ant1	Hop	1.643	161	0.265	≤0.4	PASS
2DH5	Ant1	Hop	2.891	101	0.292	≤0.4	PASS



Test Graphs



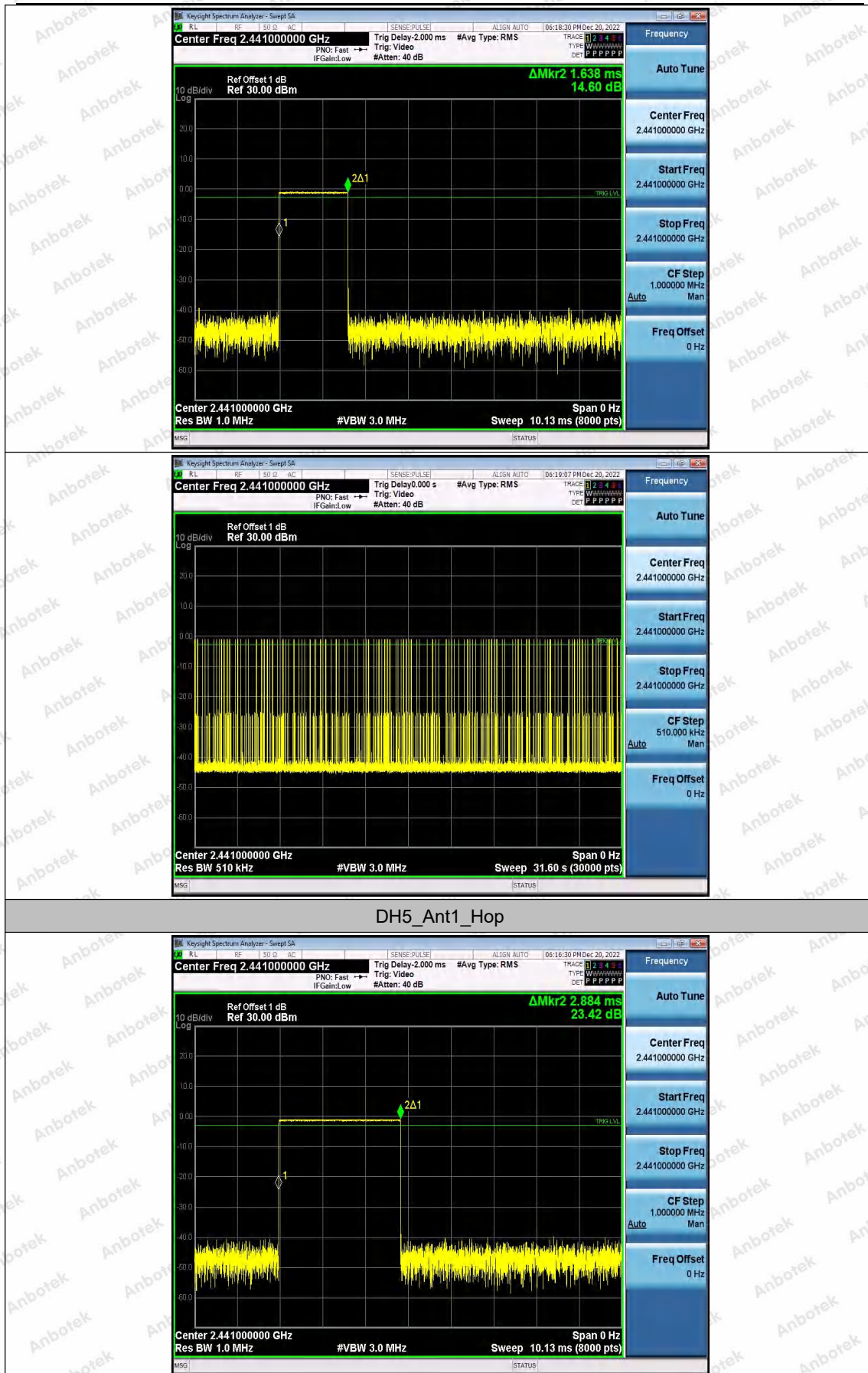
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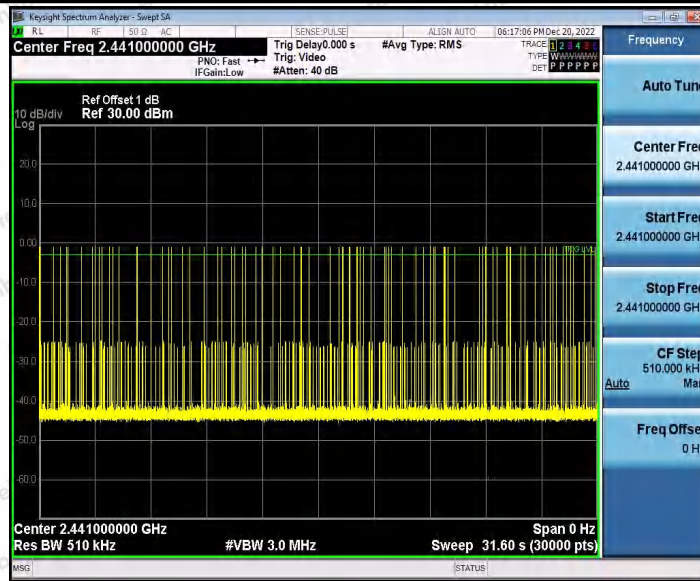
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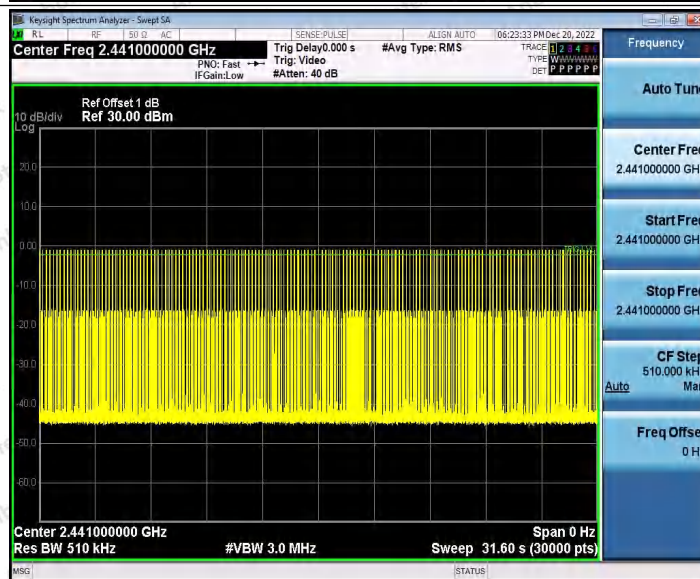
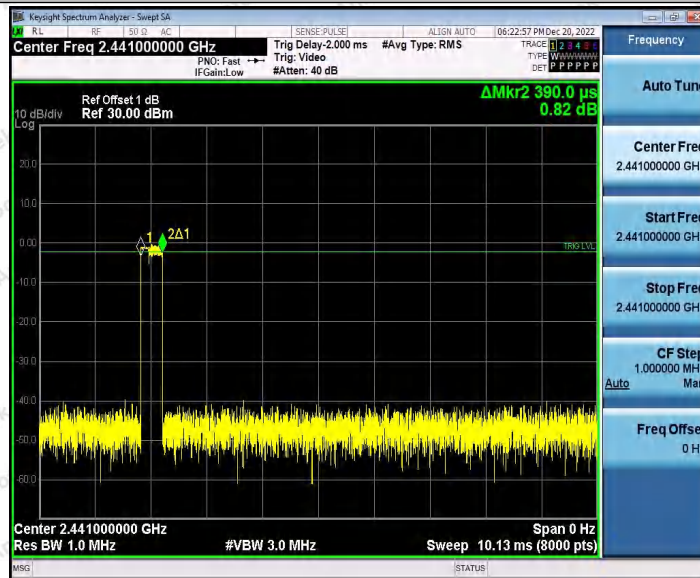


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2DH1_Ant1_Hop



2DH3_Ant1_Hop

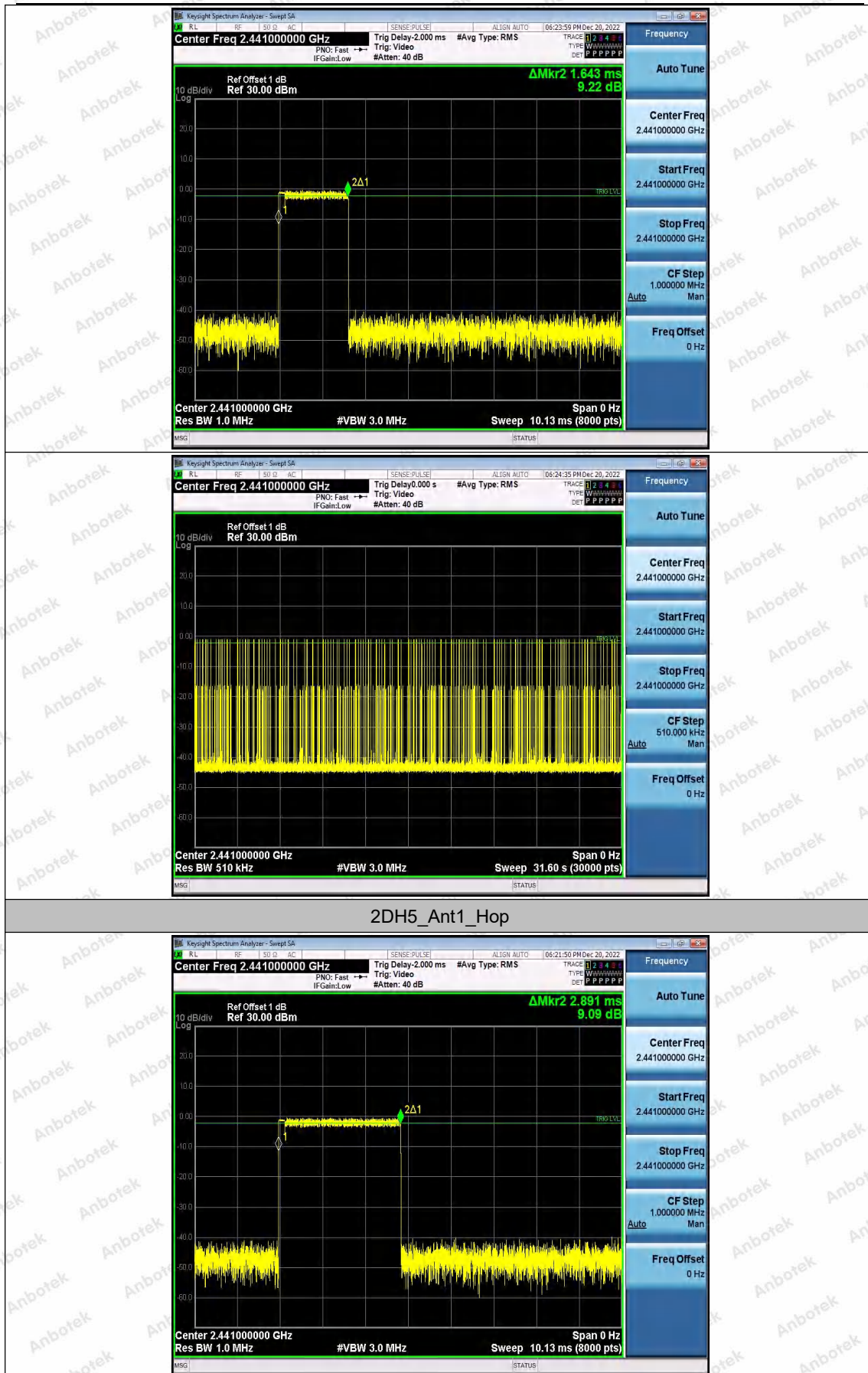
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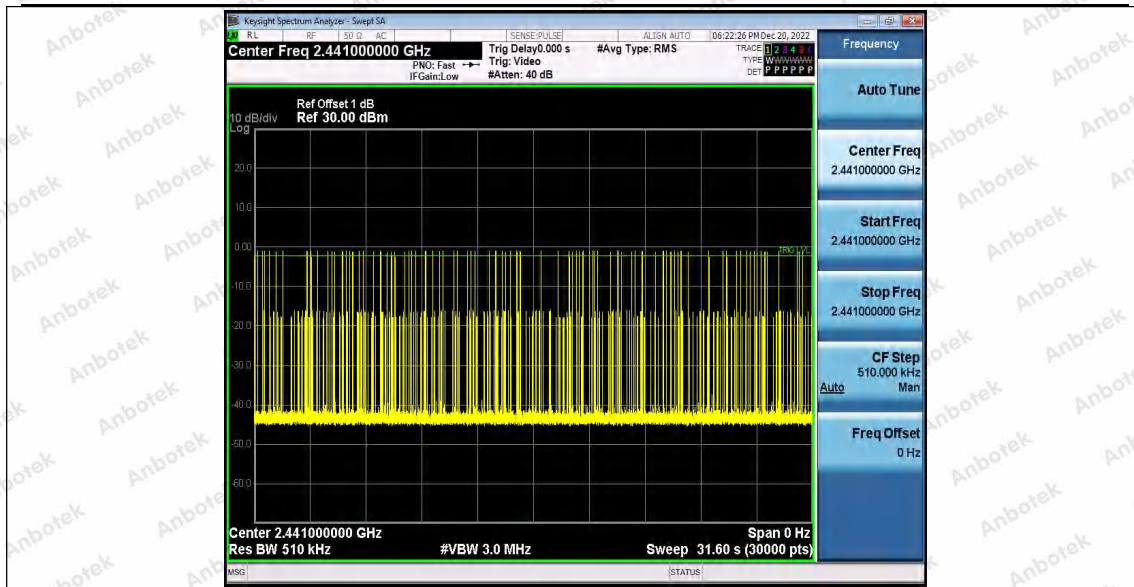


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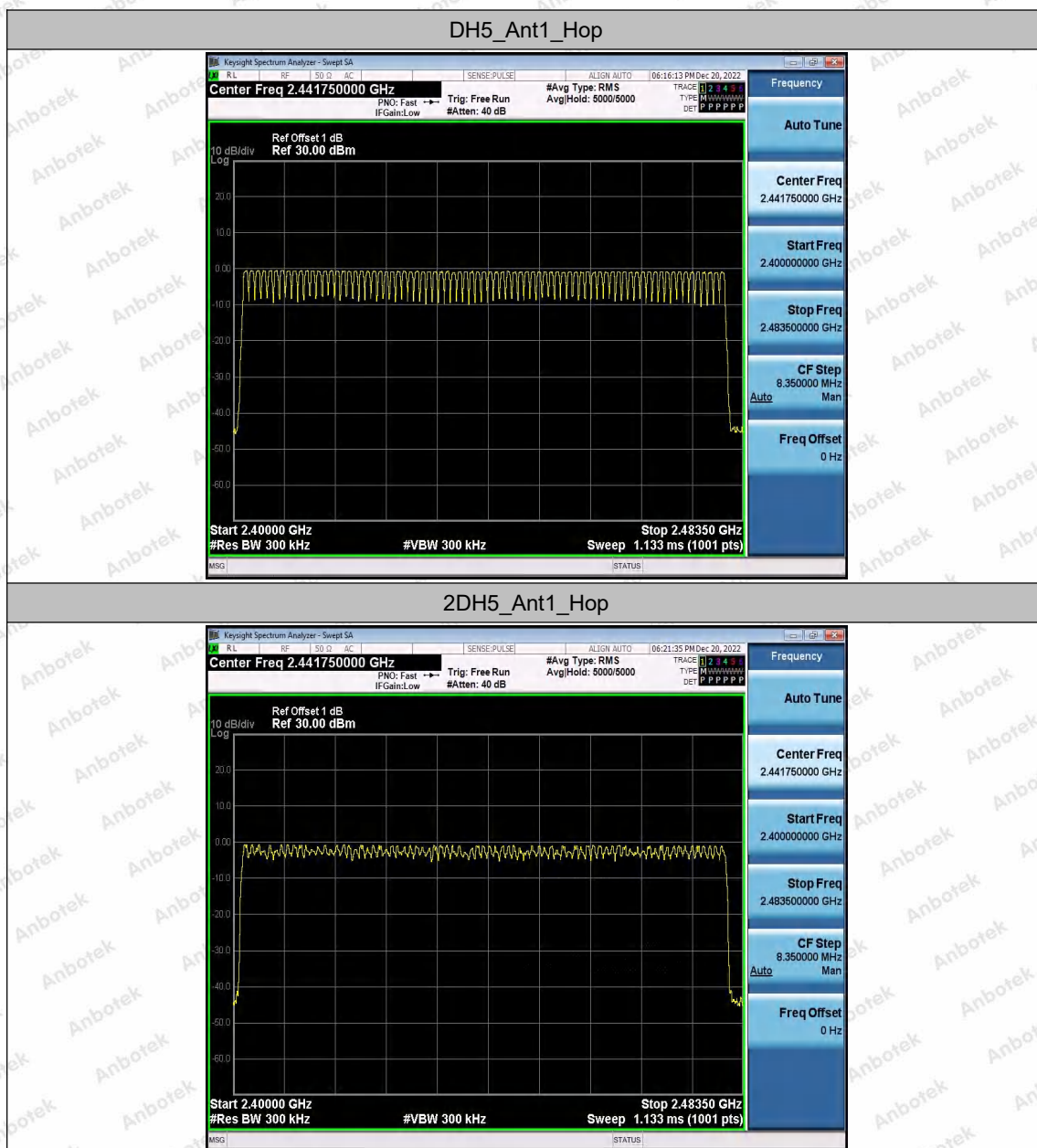


Appendix F: Number of hopping channels

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

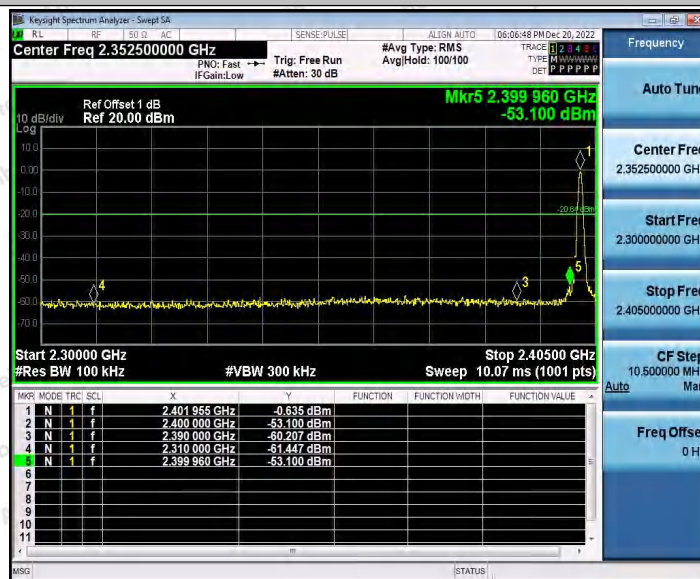
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.64	-53.1	≤-20.64	PASS
		High	2480	-1.40	-56.64	≤-21.4	PASS
		Low	Hop_2402	-1.26	-56.67	≤-21.26	PASS
		High	Hop_2480	-1.23	-56.54	≤-21.23	PASS
2DH5	Ant1	Low	2402	-2.25	-54.22	≤-22.25	PASS
		High	2480	-1.21	-57.1	≤-21.21	PASS
		Low	Hop_2402	-3.81	-56.97	≤-23.81	PASS
		High	Hop_2480	-1.76	-56.32	≤-21.76	PASS

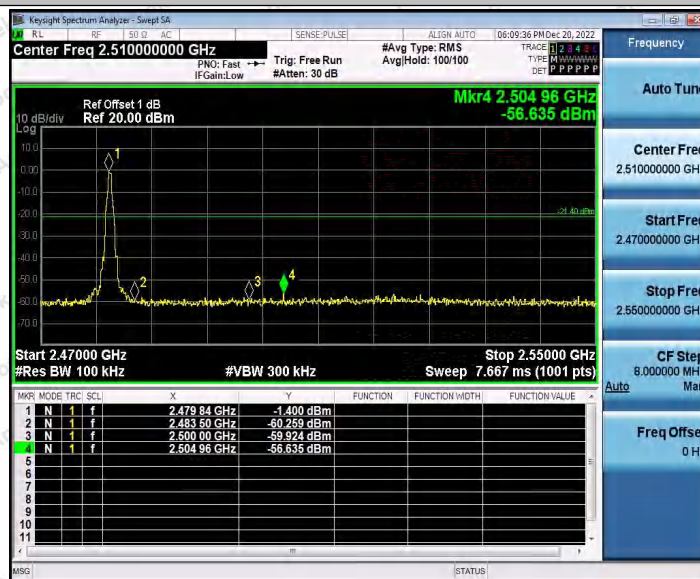


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402

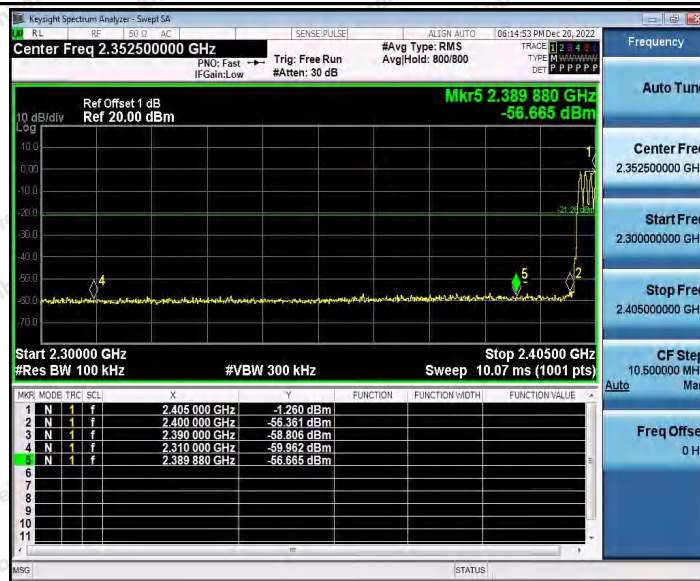
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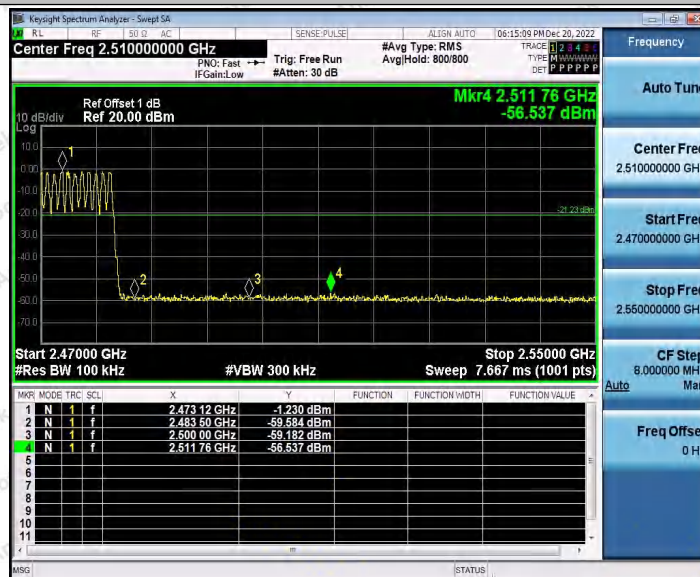


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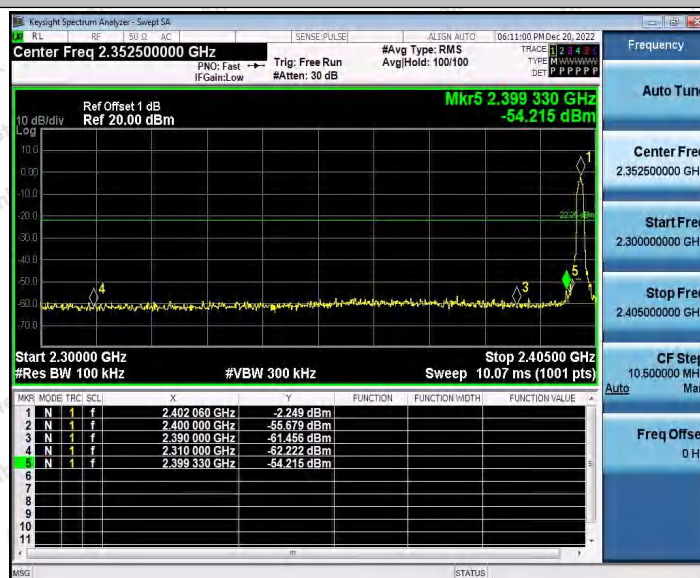




DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402



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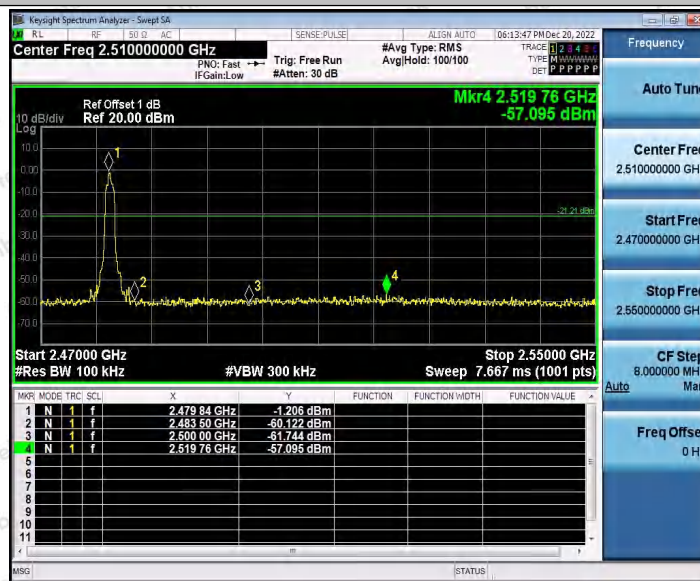
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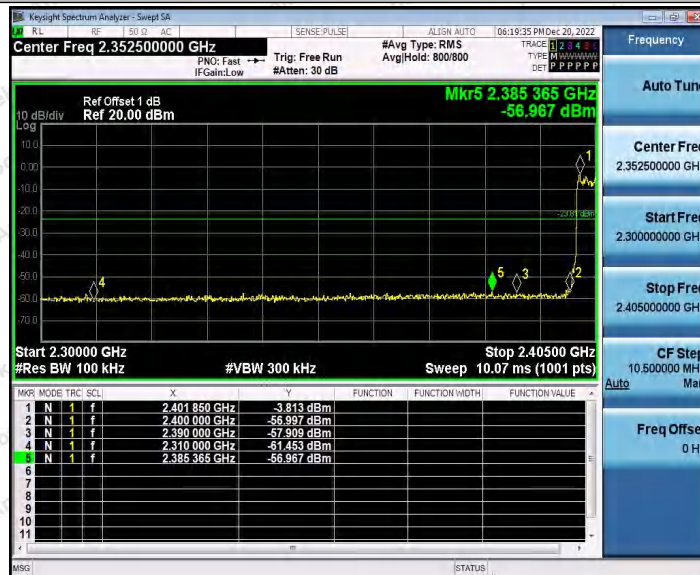
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



2DH5_Ant1_High_Hop_2480

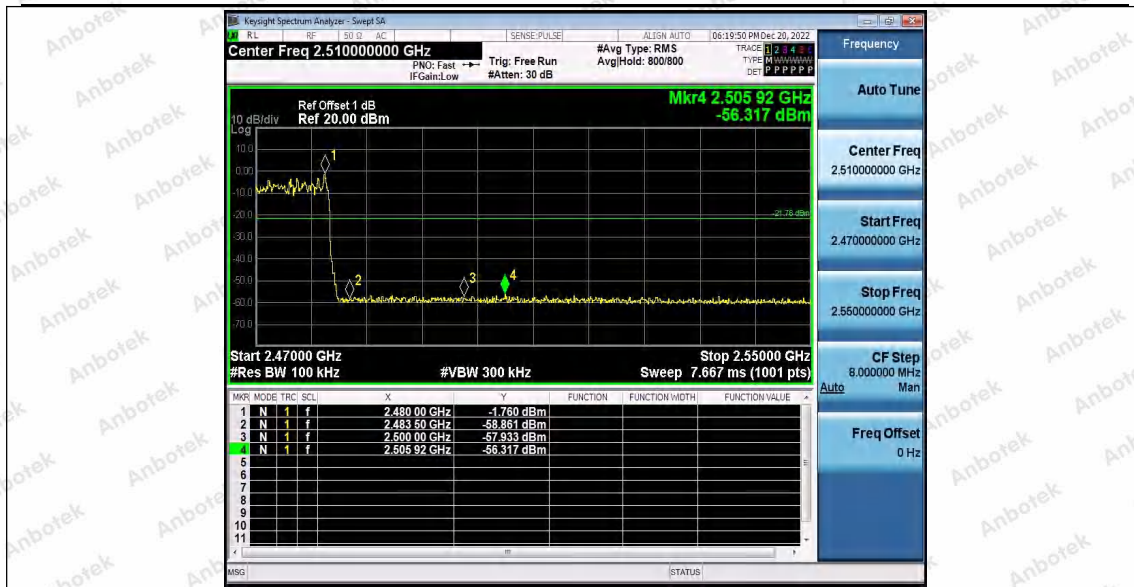
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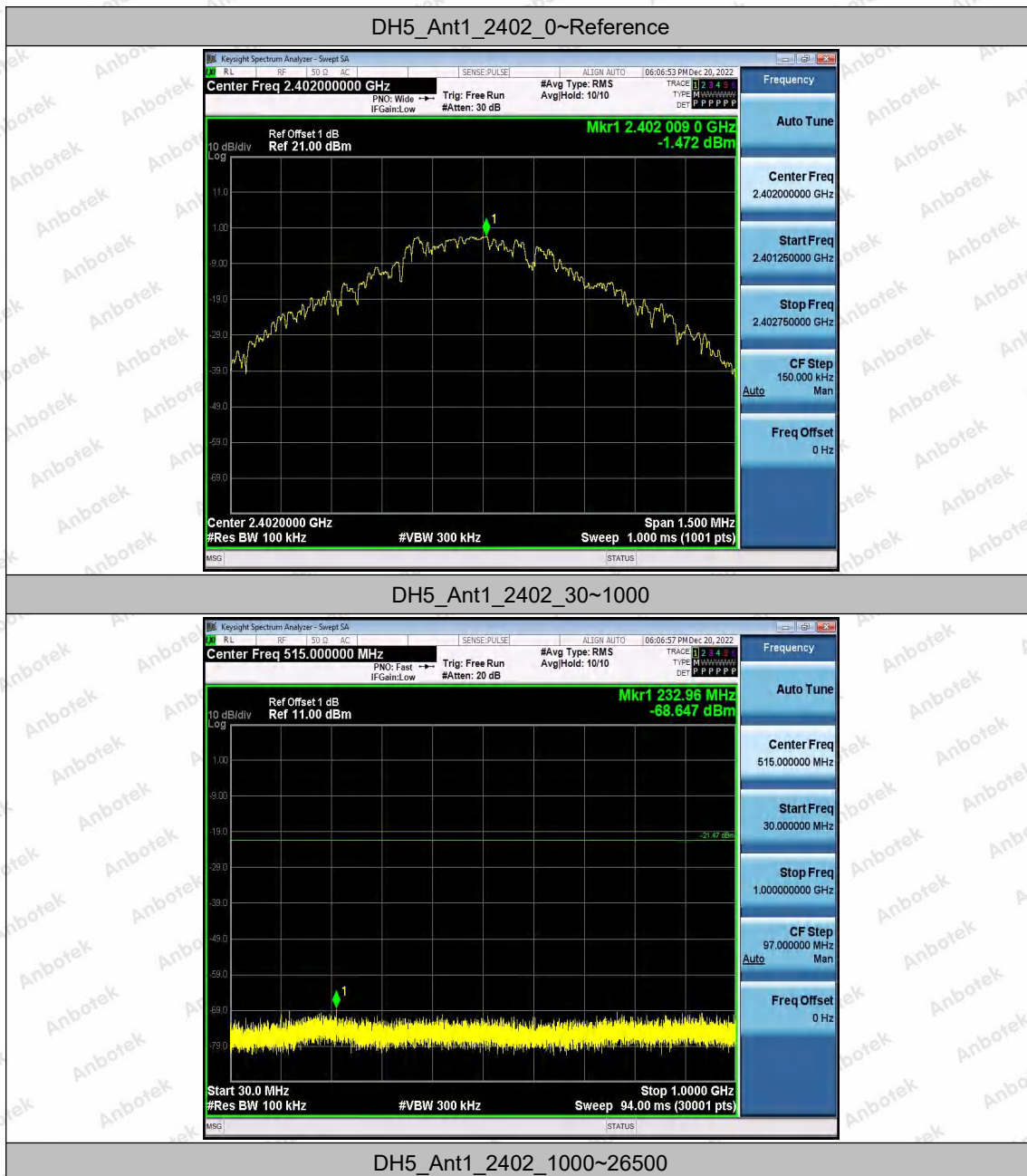
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-1.47	-1.47	---	PASS
			30~1000	-1.47	-68.65	≤-21.47	PASS
			1000~26500	-1.47	-29.66	≤-21.47	PASS
		2441	Reference	-1.88	-1.88	---	PASS
			30~1000	-1.88	-69	≤-21.88	PASS
			1000~26500	-1.88	-28.7	≤-21.88	PASS
		2480	Reference	-1.64	-1.64	---	PASS
			30~1000	-1.64	-69.29	≤-21.64	PASS
			1000~26500	-1.64	-28.1	≤-21.64	PASS
2DH5	Ant1	2402	Reference	-4.90	-4.90	---	PASS
			30~1000	-4.90	-68.39	≤-24.9	PASS
			1000~26500	-4.90	-29.84	≤-24.9	PASS
		2441	Reference	-5.04	-5.04	---	PASS
			30~1000	-5.04	-68.84	≤-25.04	PASS
			1000~26500	-5.04	-29.14	≤-25.04	PASS
		2480	Reference	-2.27	-2.27	---	PASS
			30~1000	-2.27	-68.67	≤-22.27	PASS
			1000~26500	-2.27	-27.86	≤-22.27	PASS



Test Graphs



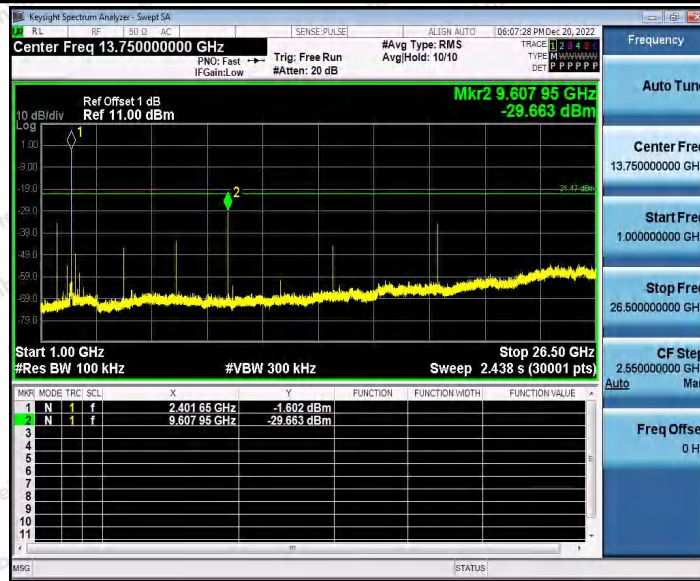
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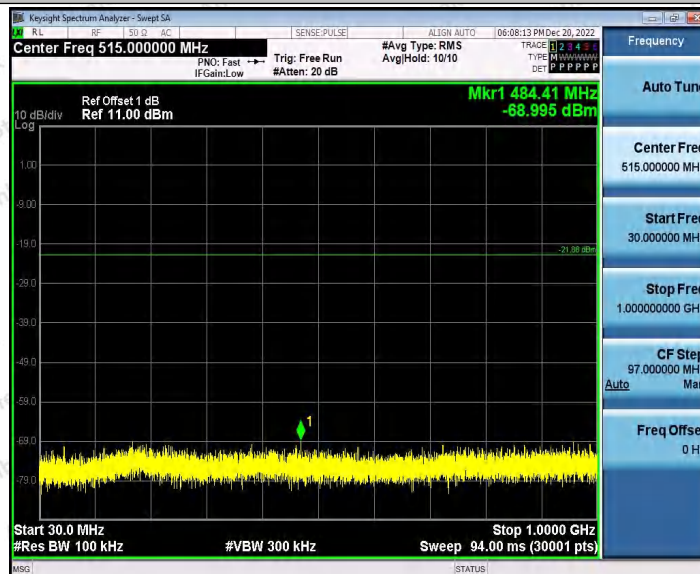




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



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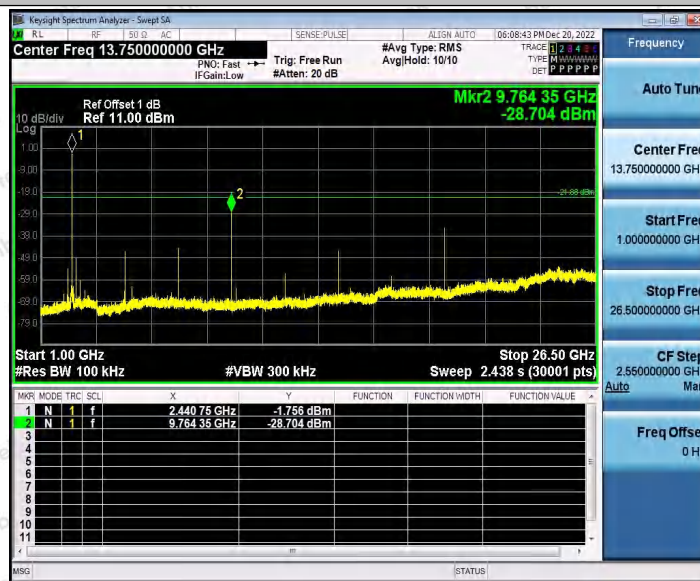
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000

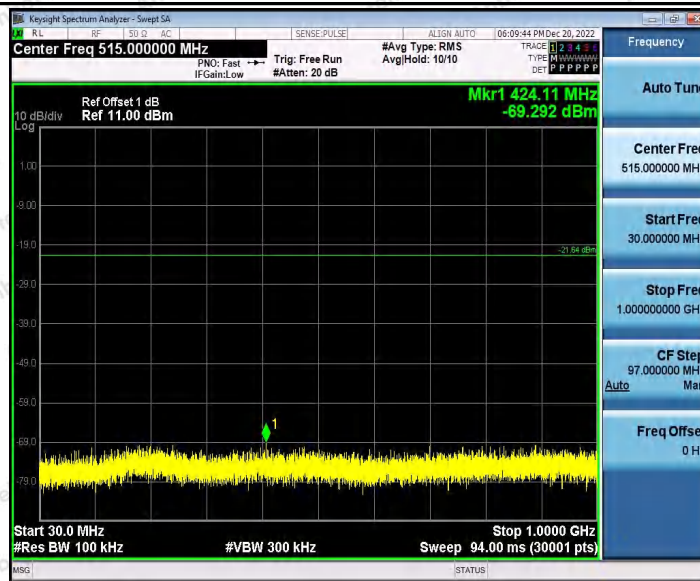
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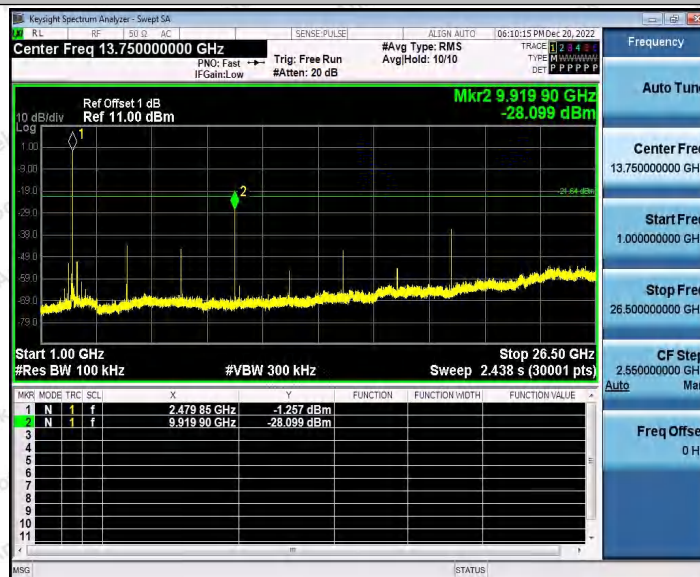


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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



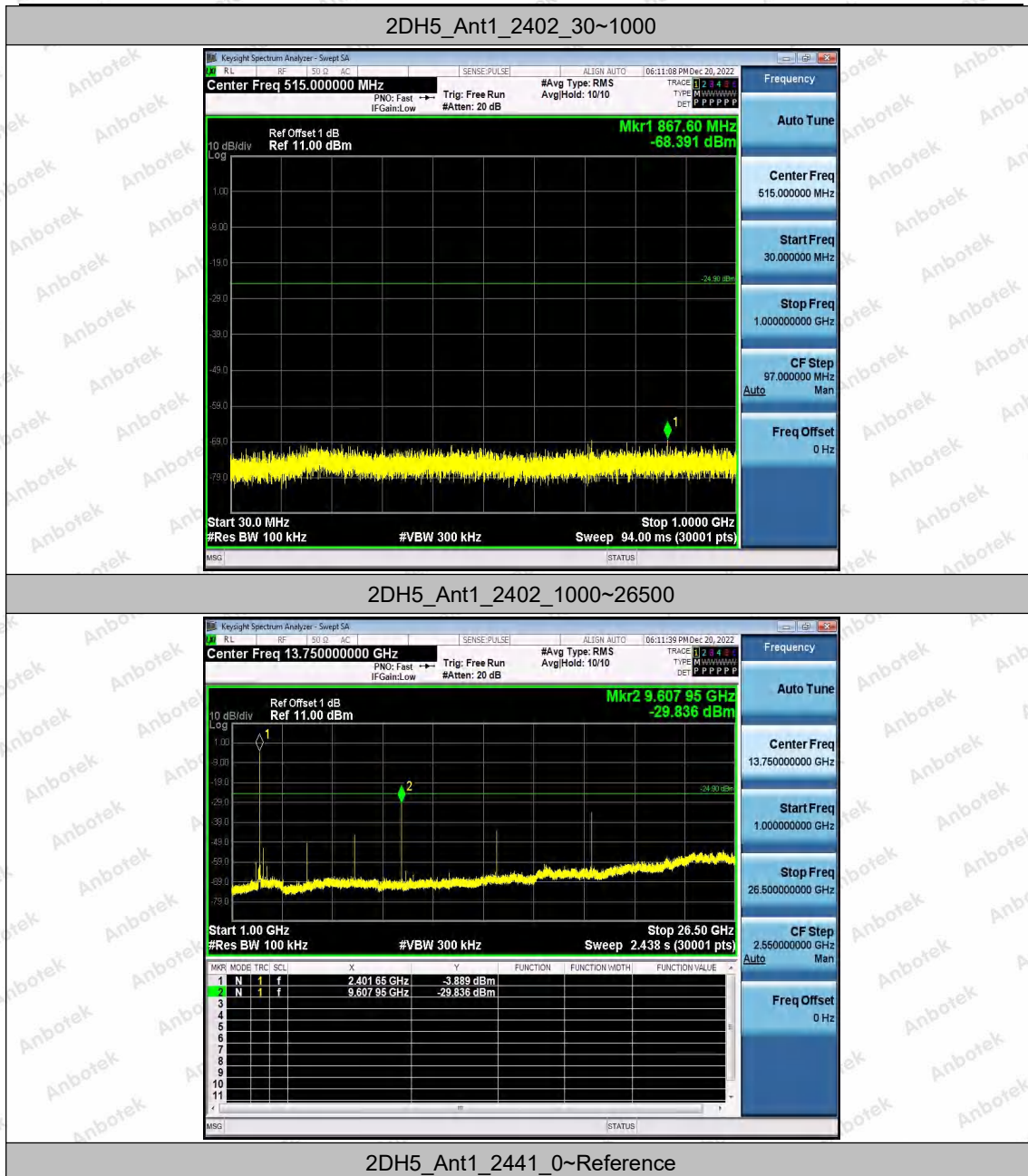
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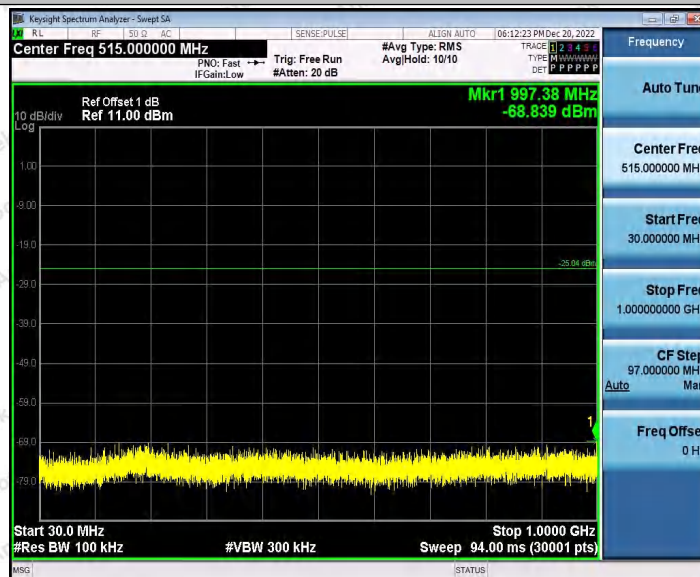


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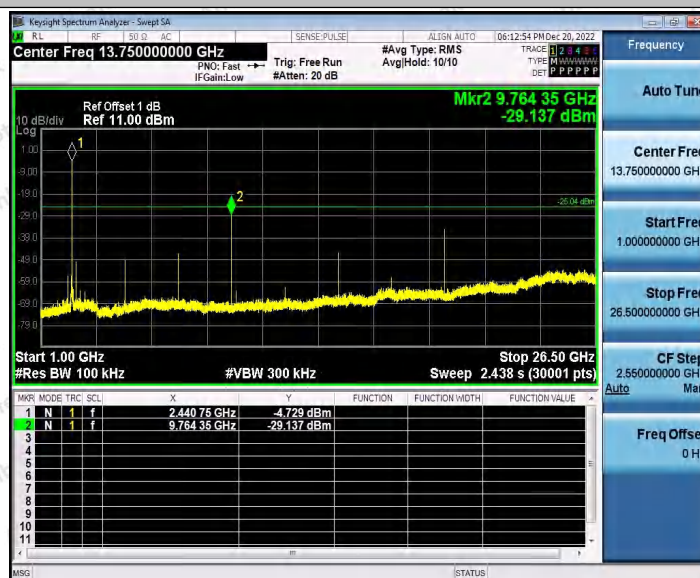




2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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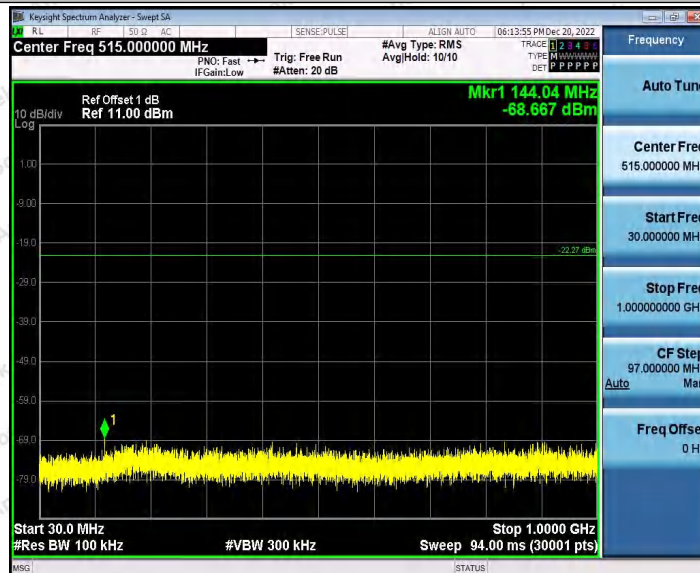
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500

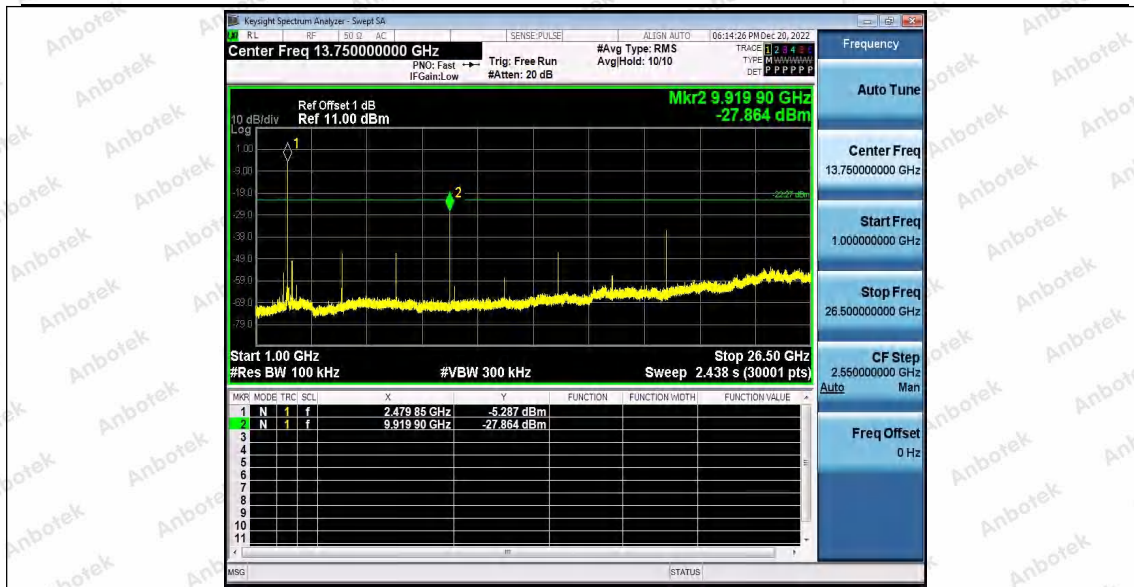
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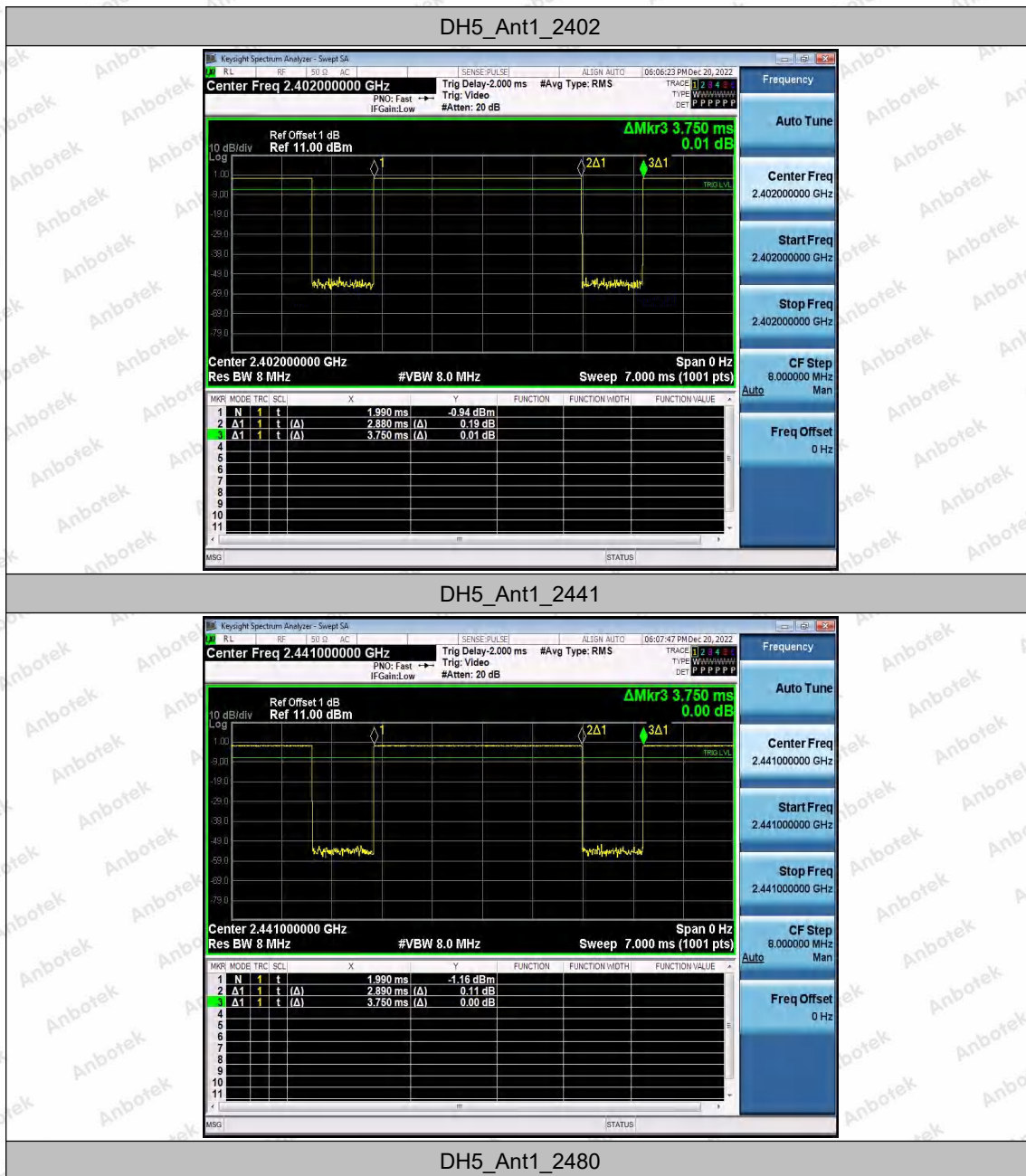
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.88	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	3.75	77.07	1.13
		2480	2.89	3.75	77.07	1.13



Test Graphs



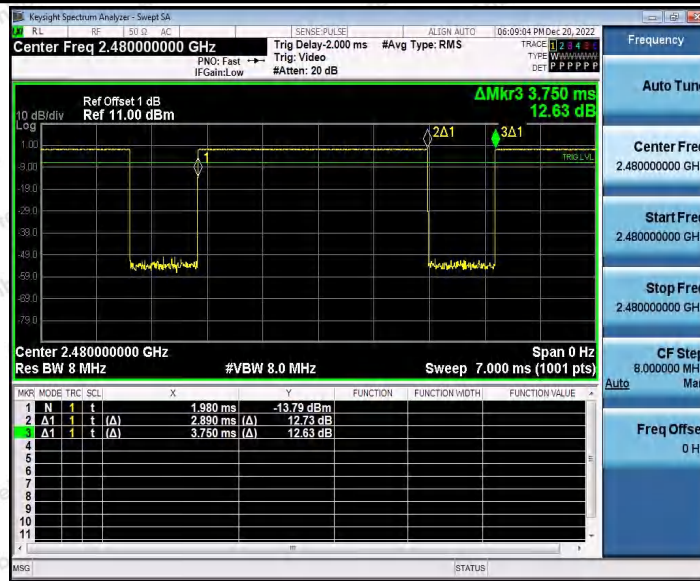
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Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



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

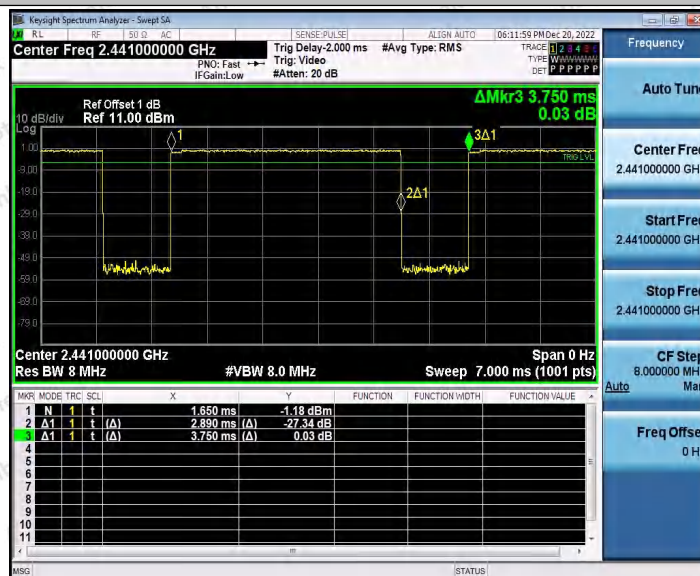




2DH5_Ant1_2402



2DH5_Ant1_2441



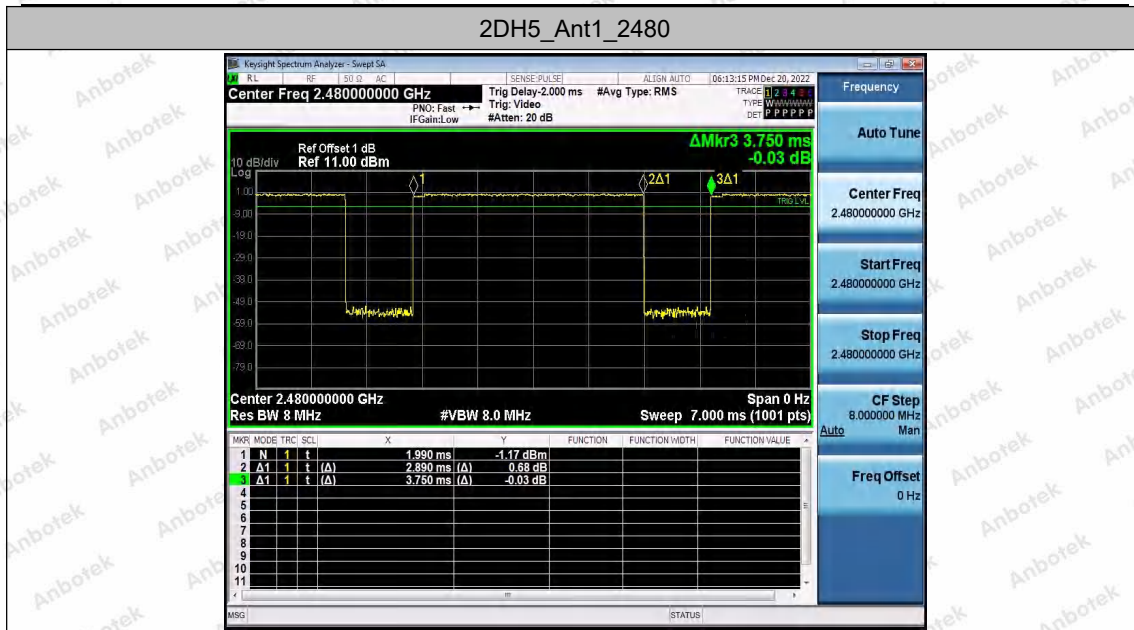
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