

Appendix Test Data

Report No.:	18220WC30117801	Test Sample No.:	1-2-2
Start Test Date:	2023.06.13	Finish Test Date:	2023.06.13
Test Engineer:	RICK Luo	Auditor:	Edward Pan
Temperature:	26.3°C	Relative Humidity:	49%
Pressure:	1012 hPa		

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.939	2401.538	2402.477	---	---
		2441	0.960	2440.535	2441.495	---	---
		2480	0.945	2479.538	2480.483	---	---
2DH5	Ant1	2402	1.326	2401.334	2402.660	---	---
		2441	1.359	2440.325	2441.684	---	---
		2480	1.323	2479.340	2480.663	---	---

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Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480

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2DH5_Ant1_2402



2DH5_Ant1_2441

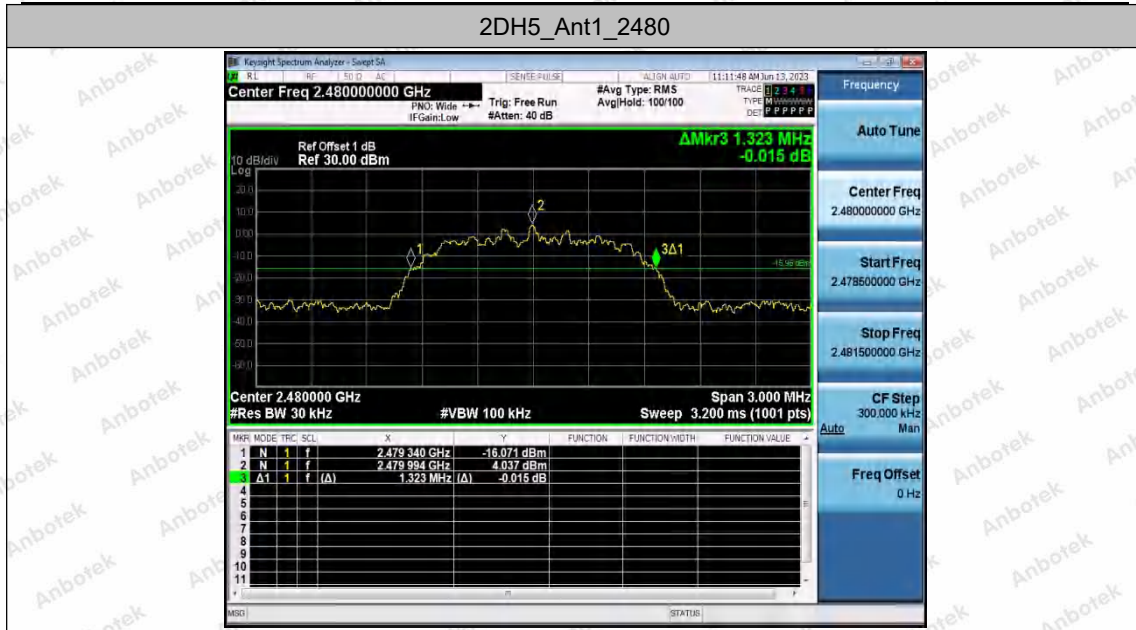


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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.84349	2401.5724	2402.4158	---	---
		2441	0.84695	2440.5723	2441.4193	---	---
		2480	0.86676	2479.5691	2480.4358	---	---
2DH5	Ant1	2402	1.1975	2401.3987	2402.5962	---	---
		2441	1.1977	2440.4049	2441.6026	---	---
		2480	1.2072	2479.3941	2480.6013	---	---

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Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441

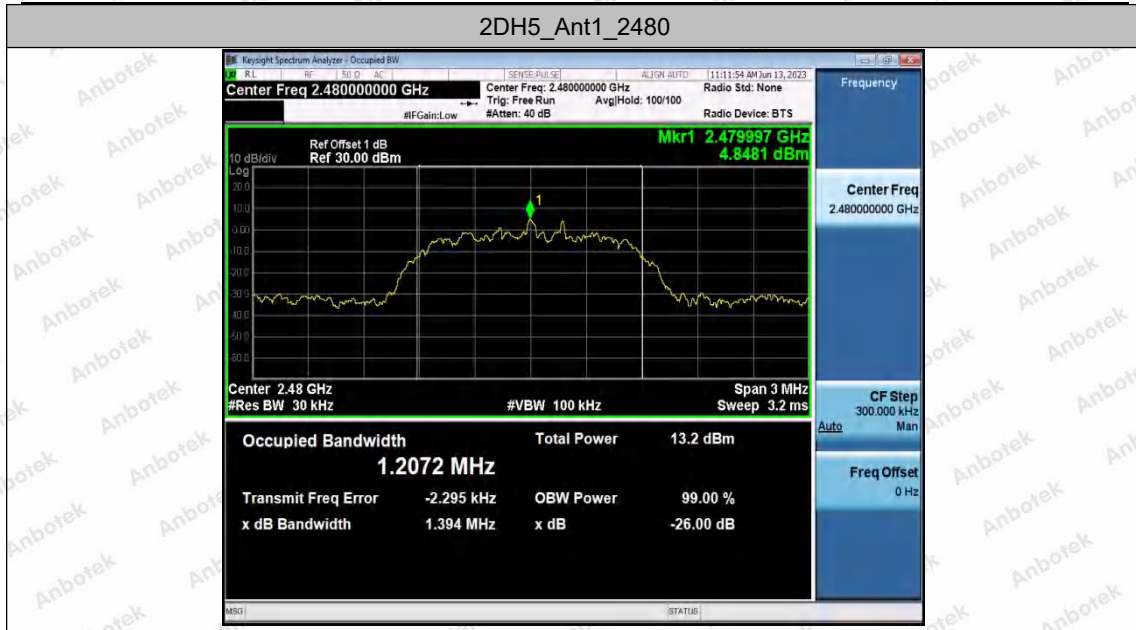


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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	6.00	≤20.97	PASS
		2441	6.68	≤20.97	PASS
		2480	7.16	≤20.97	PASS
2DH5	Ant1	2402	6.70	≤20.97	PASS
		2441	7.31	≤20.97	PASS
		2480	7.70	≤20.97	PASS

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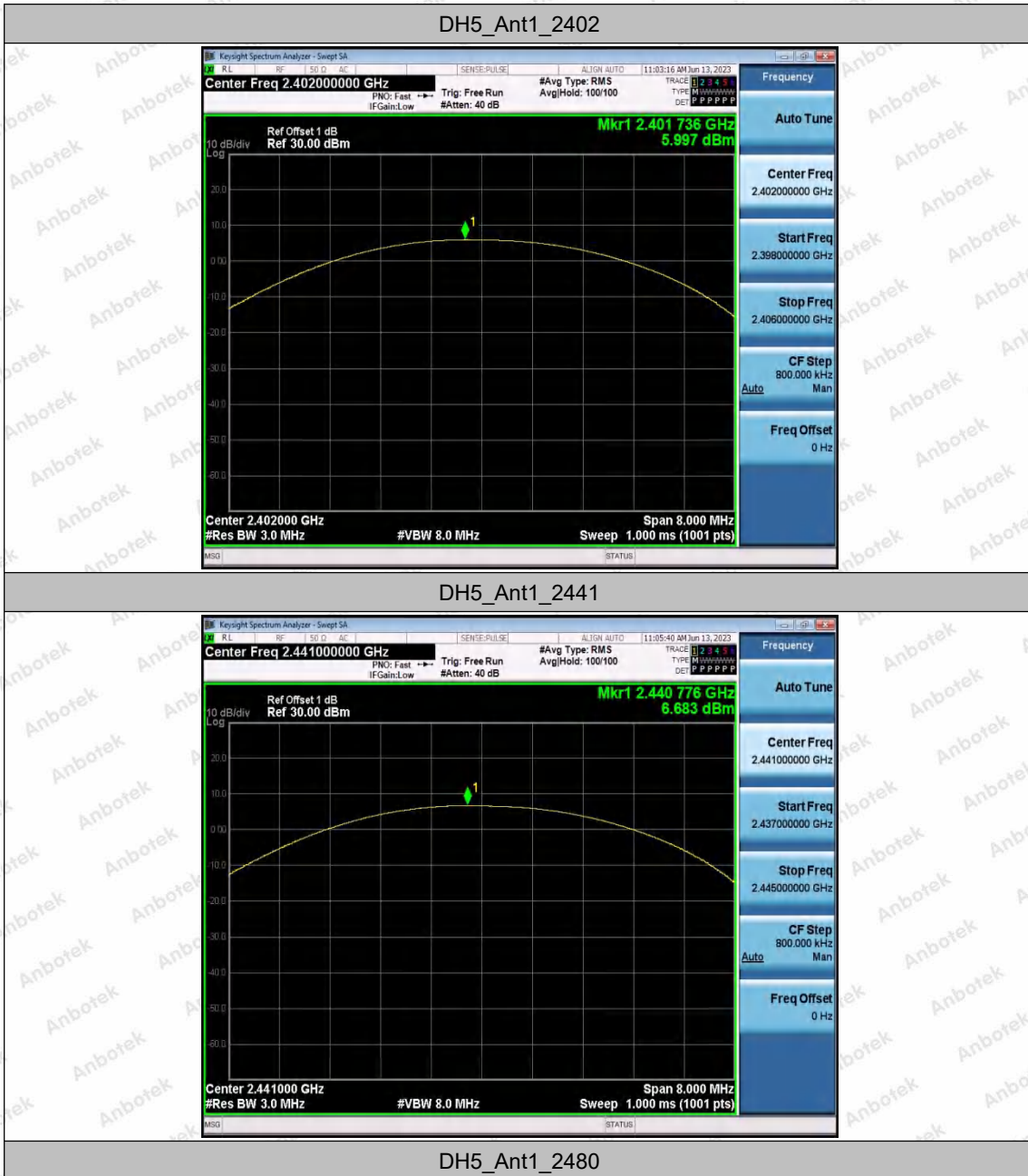
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Test Graphs



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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	1.006	≥0.960	PASS
2DH5	Ant1	Hop	1.000	≥0.906	PASS

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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	0.375	318	0.119	≤0.4	PASS
DH3	Ant1	Hop	1.631	102	0.166	≤0.4	PASS
DH5	Ant1	Hop	2.879	63	0.181	≤0.4	PASS
2DH1	Ant1	Hop	0.385	317	0.122	≤0.4	PASS
2DH3	Ant1	Hop	1.637	114	0.187	≤0.4	PASS
2DH5	Ant1	Hop	2.884	59	0.17	≤0.4	PASS

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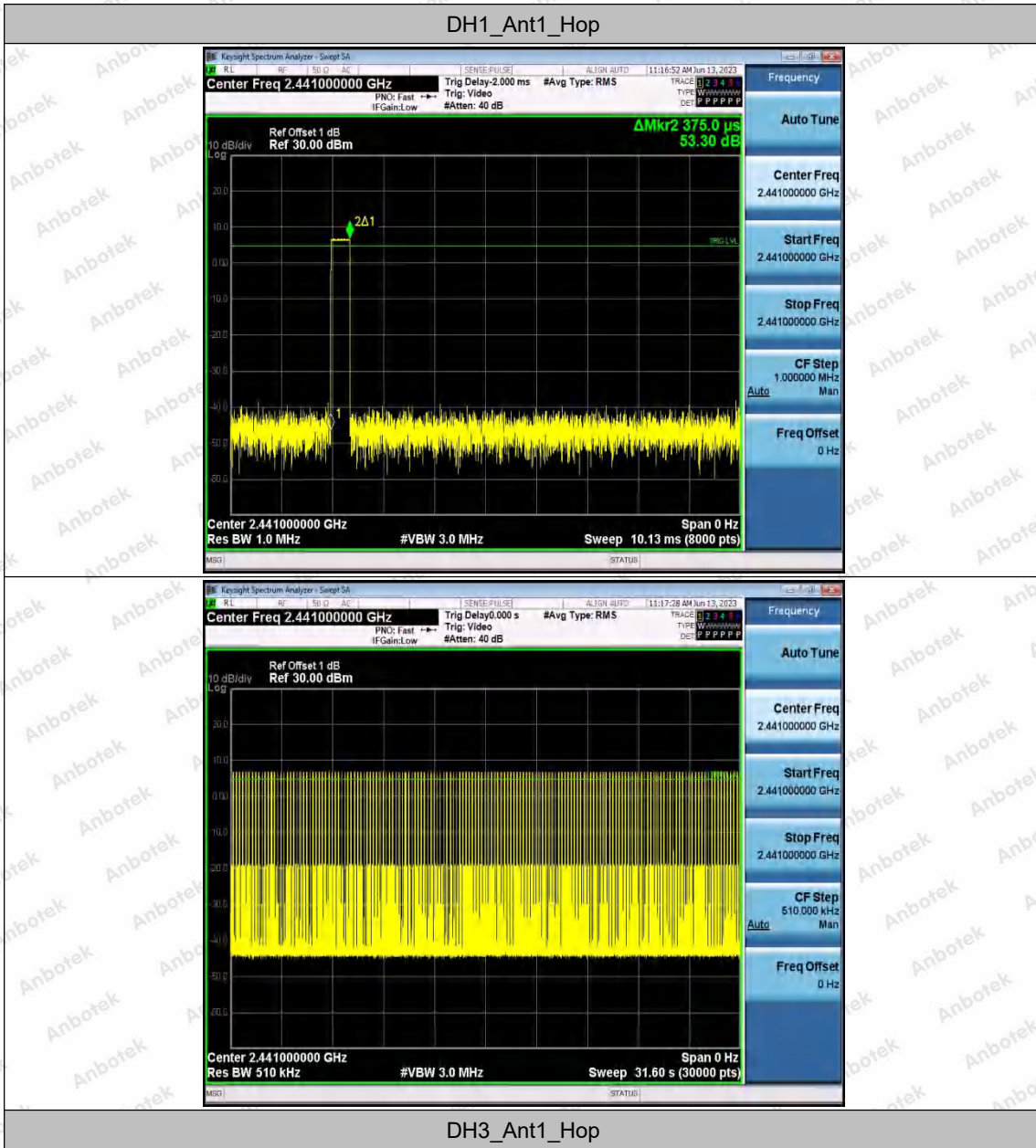
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Test Graphs

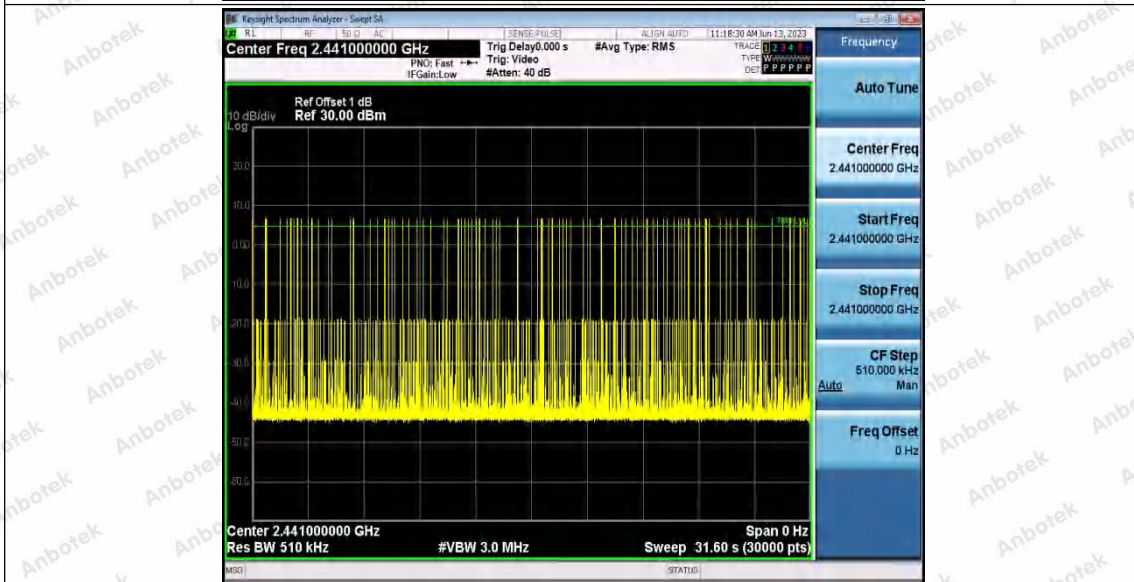
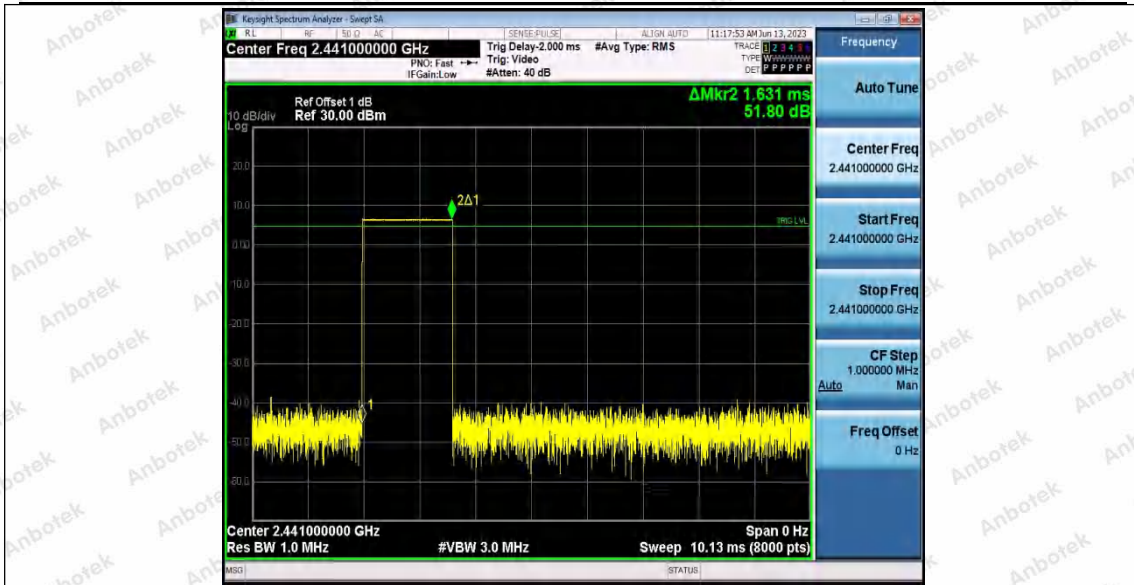


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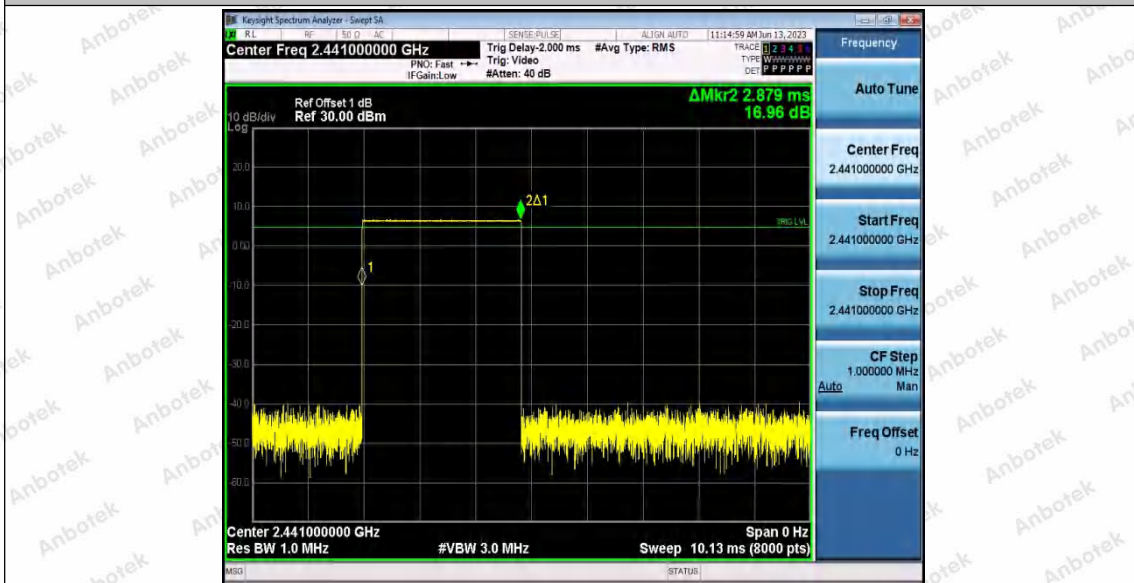
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DH5_Ant1_Hop

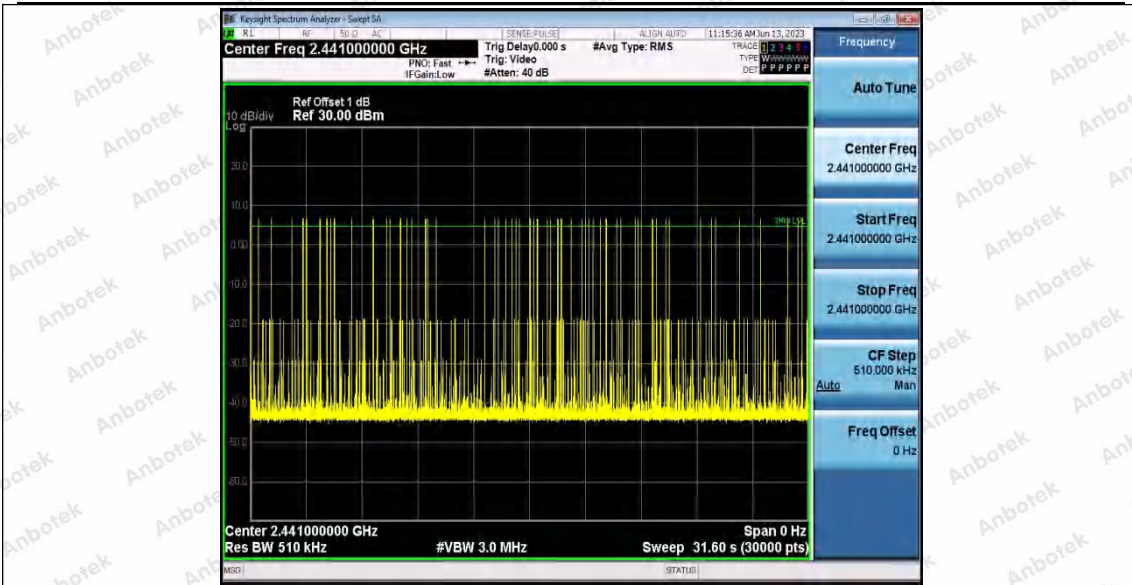


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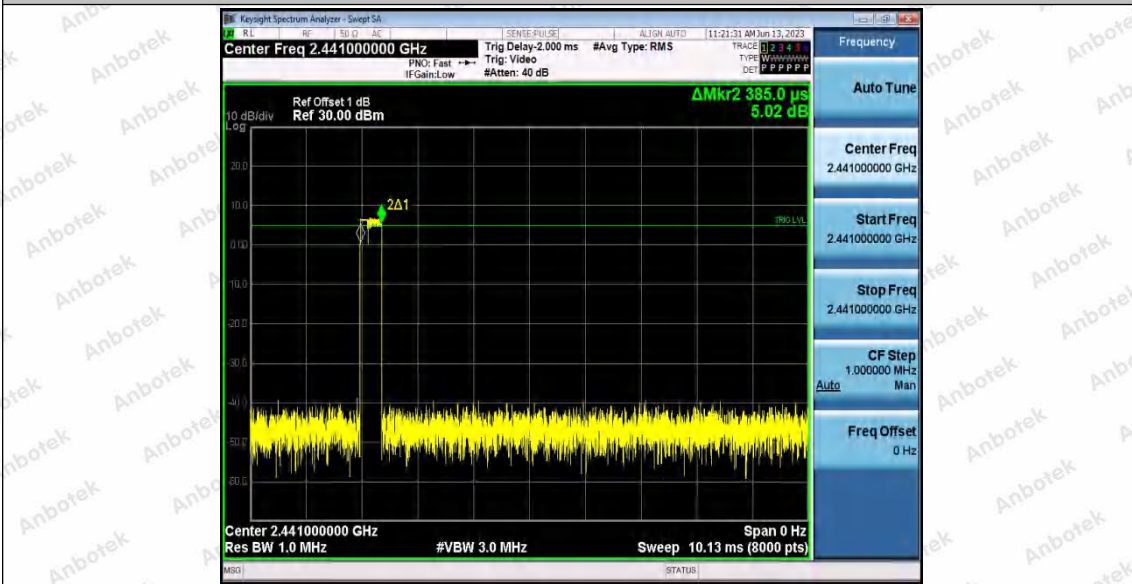
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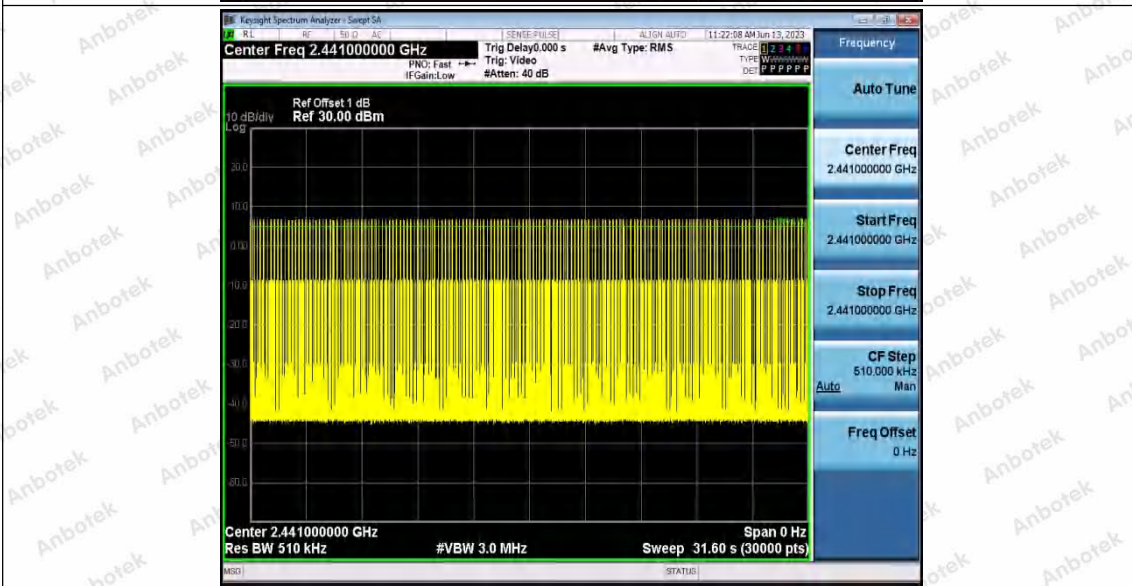




2DH1_Ant1_Hop



2DH3_Ant1_Hop

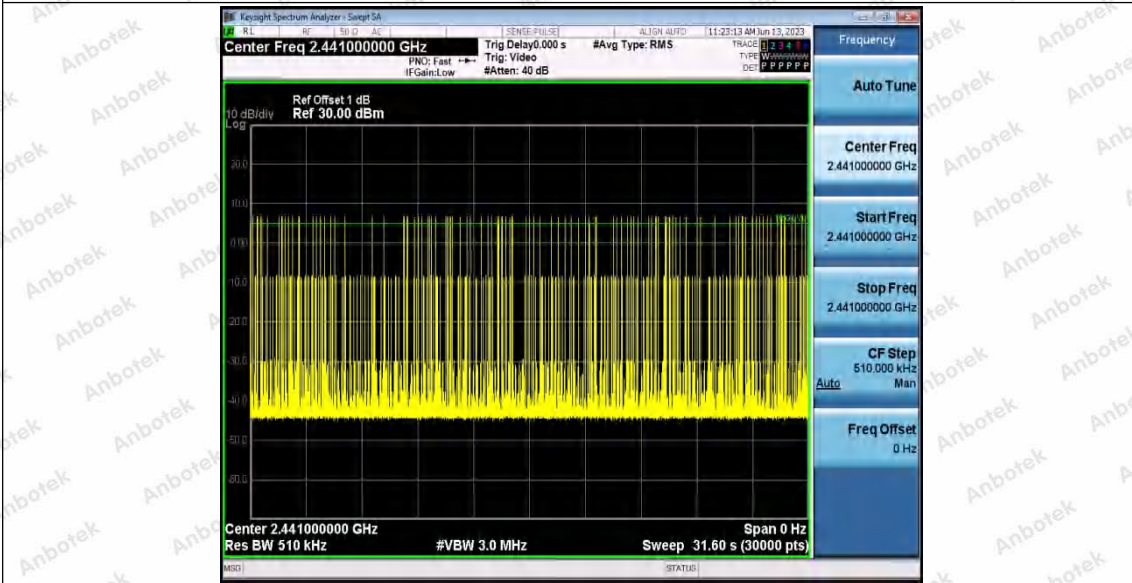
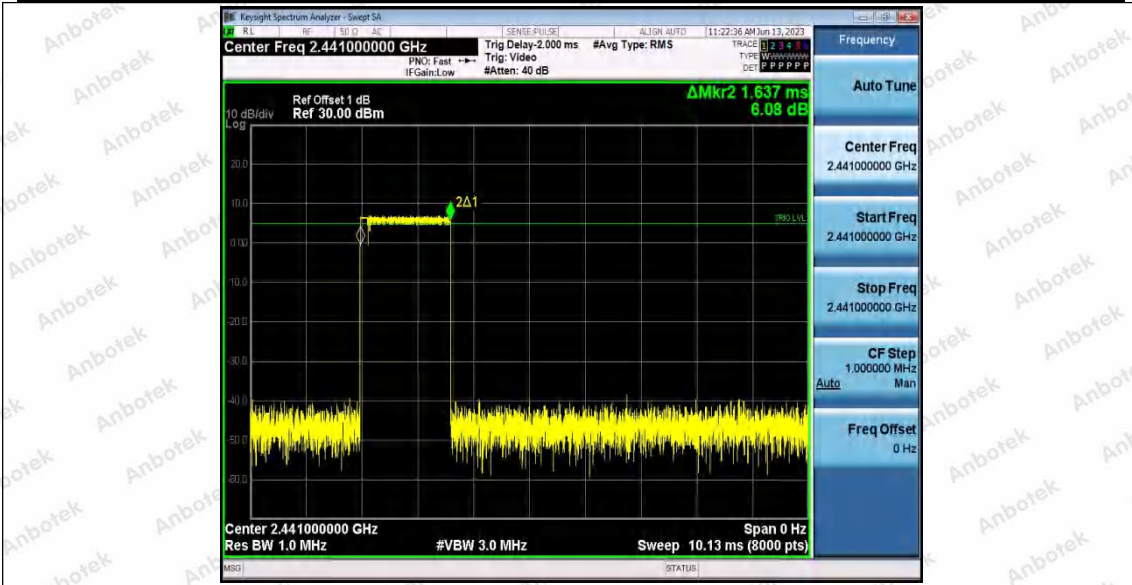


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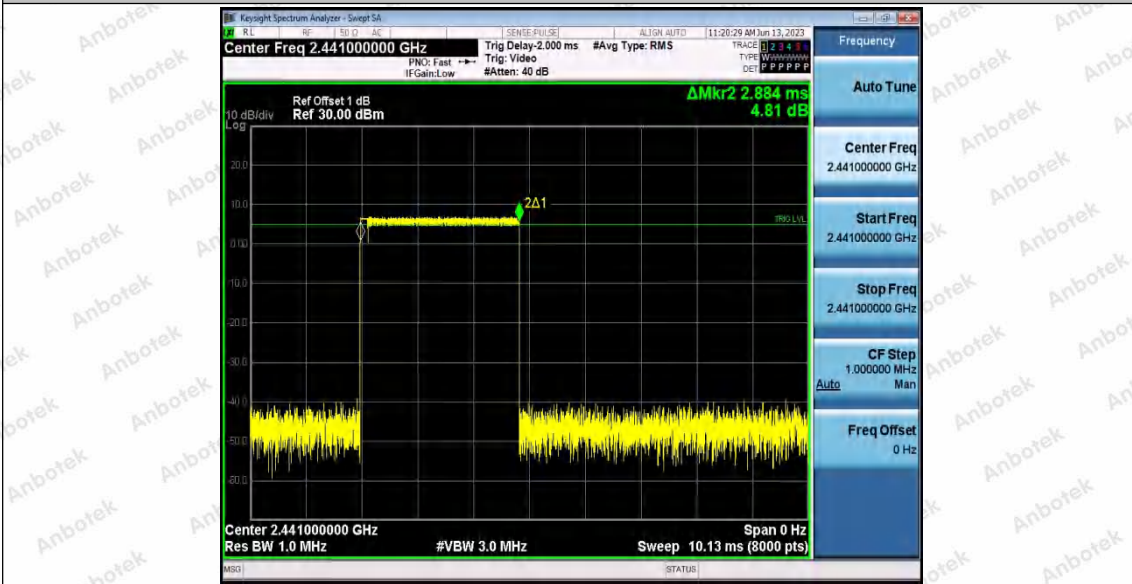
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2DH5_Ant1_Hop

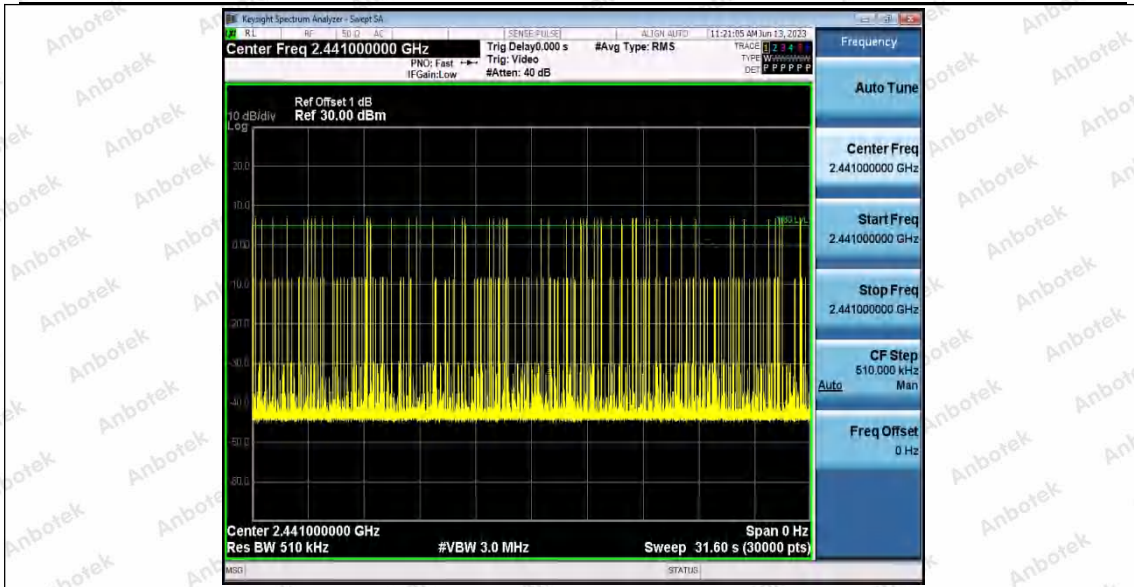


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Appendix F: Number of hopping channels

Test Result

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

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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	5.60	-33.46	≤-14.4	PASS
		High	2480	6.90	-40.57	≤-13.1	PASS
		Low	Hop_2402	5.71	-56.42	≤-14.29	PASS
		High	Hop_2480	6.79	-50.96	≤-13.21	PASS
2DH5	Ant1	Low	2402	5.90	-33.83	≤-14.1	PASS
		High	2480	6.06	-39.91	≤-13.94	PASS
		Low	Hop_2402	3.93	-56.68	≤-16.08	PASS
		High	Hop_2480	3.75	-52.39	≤-16.26	PASS

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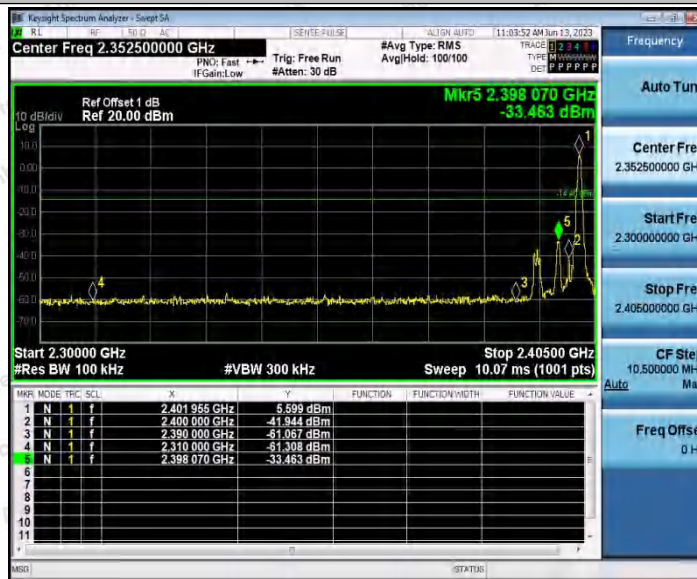


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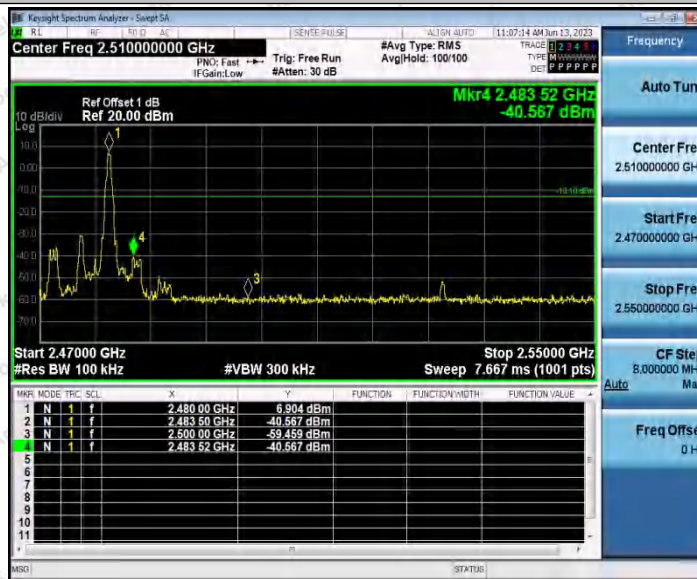


Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



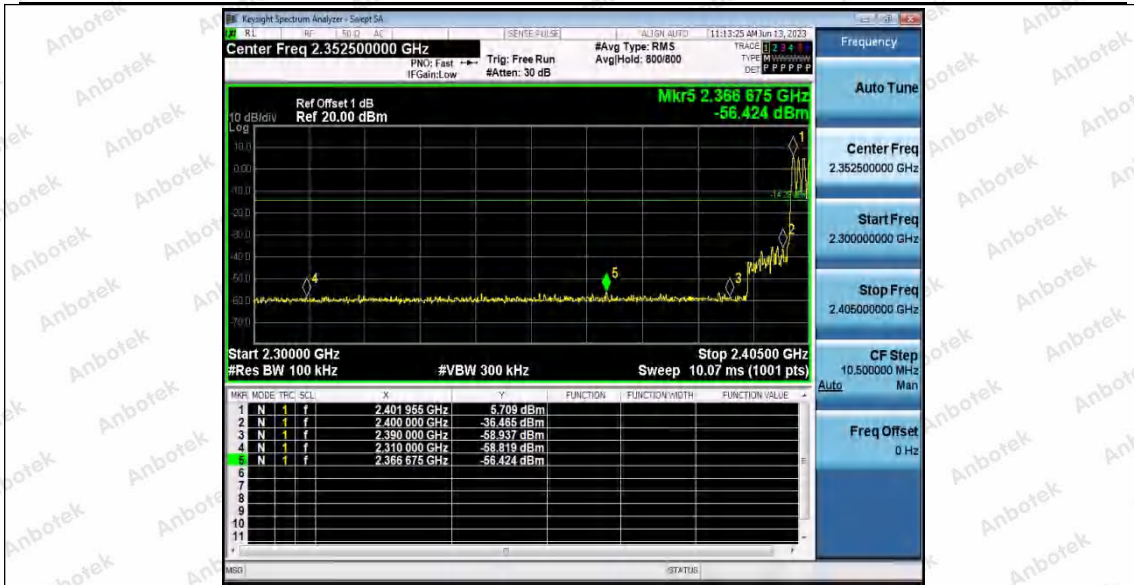
DH5_Ant1_Low_Hop_2402

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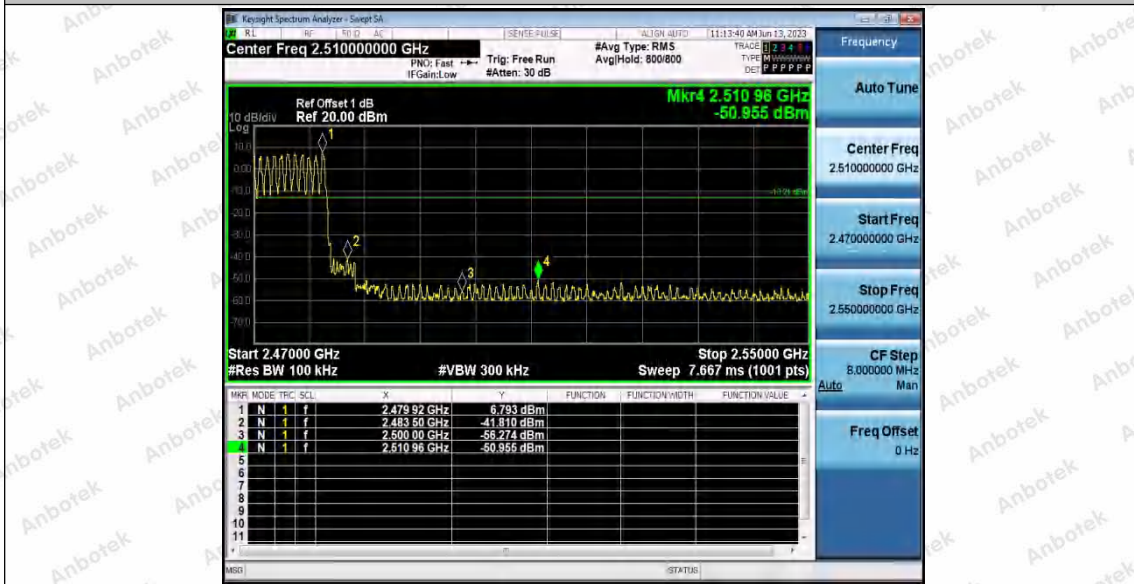
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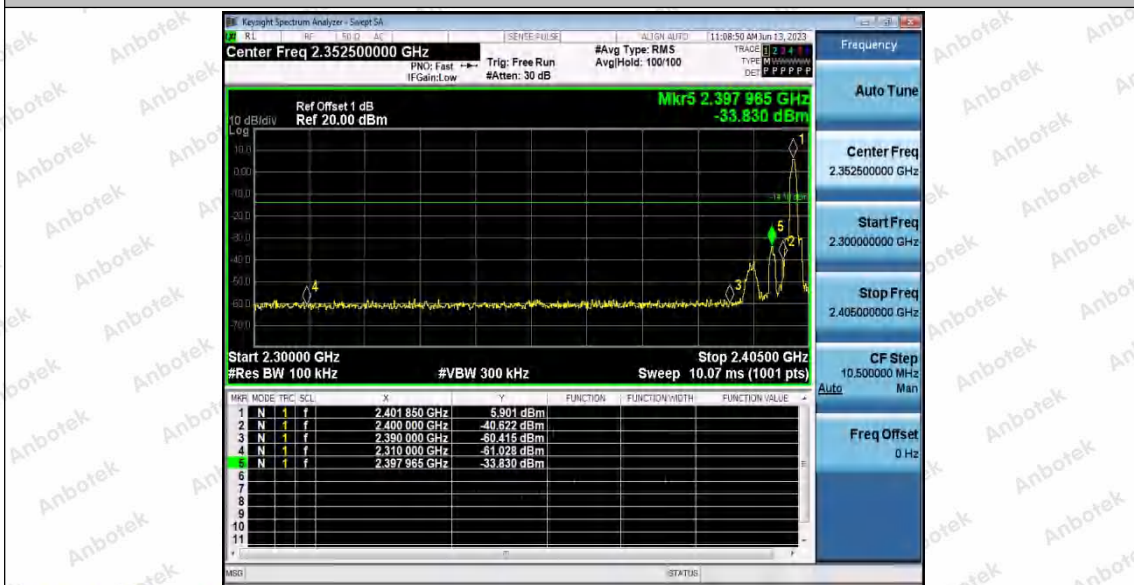




DH5_Ant1_High_Hop_2480



2DH5_Ant1_Low_2402



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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop_2402



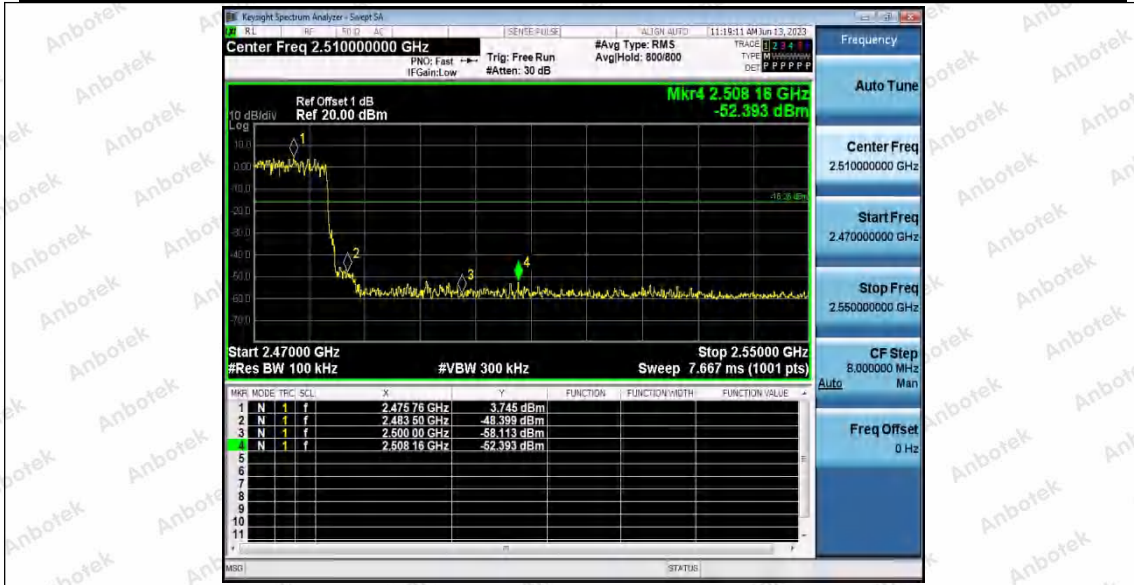
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Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	5.03	5.03	---	PASS
			30~1000	5.03	-69.13	≤-14.97	PASS
			1000~26500	5.03	-33.03	≤-14.97	PASS
		2441	Reference	5.87	5.87	---	PASS
			30~1000	5.87	-68.7	≤-14.13	PASS
			1000~26500	5.87	-32.7	≤-14.13	PASS
		2480	Reference	6.40	6.40	---	PASS
			30~1000	6.40	-68.65	≤-13.6	PASS
			1000~26500	6.40	-33.71	≤-13.6	PASS
2DH5	Ant1	2402	Reference	1.30	1.30	---	PASS
			30~1000	1.30	-66.46	≤-18.7	PASS
			1000~26500	1.30	-37.33	≤-18.7	PASS
		2441	Reference	2.89	2.89	---	PASS
			30~1000	2.89	-68.94	≤-17.11	PASS
			1000~26500	2.89	-34.91	≤-17.11	PASS
		2480	Reference	4.05	4.05	---	PASS
			30~1000	4.05	-69.03	≤-15.95	PASS
			1000~26500	4.05	-36.43	≤-15.95	PASS

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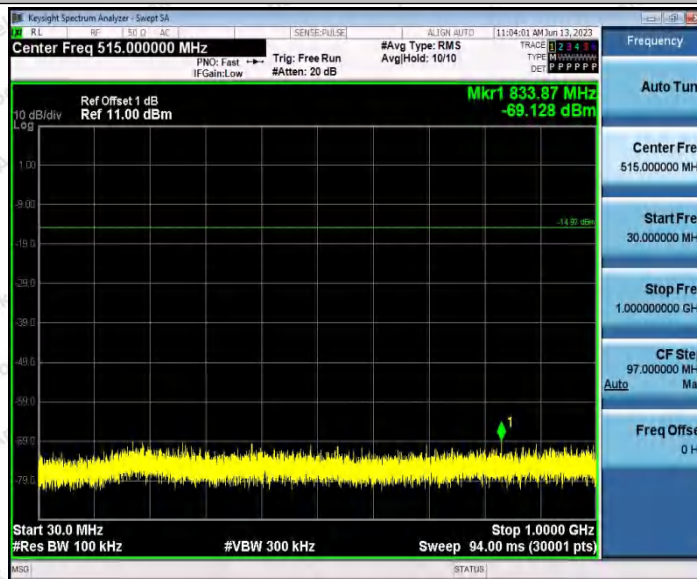


Test Graphs

DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



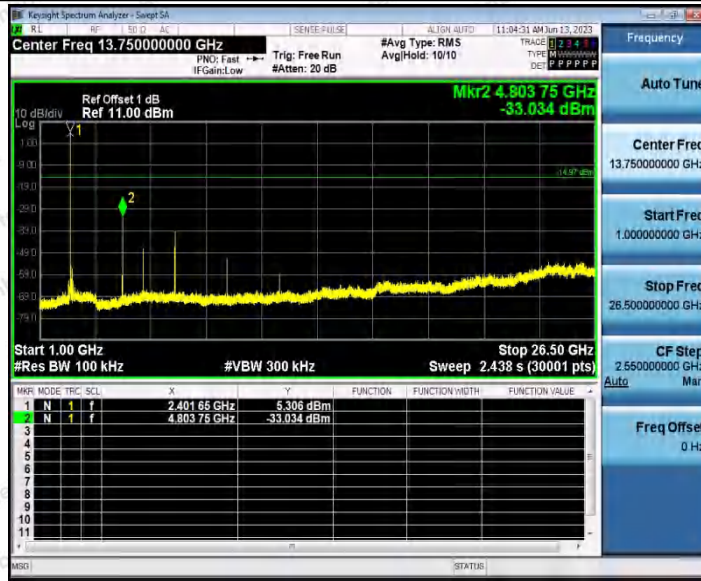
DH5_Ant1_2402_1000~26500

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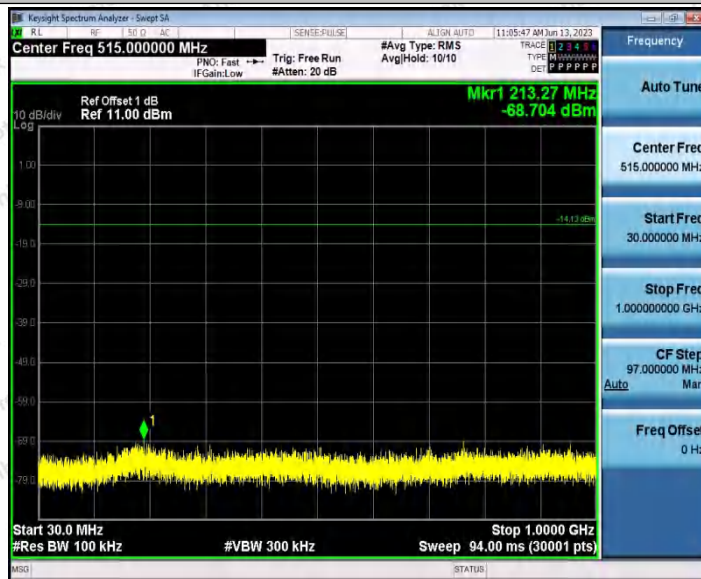




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



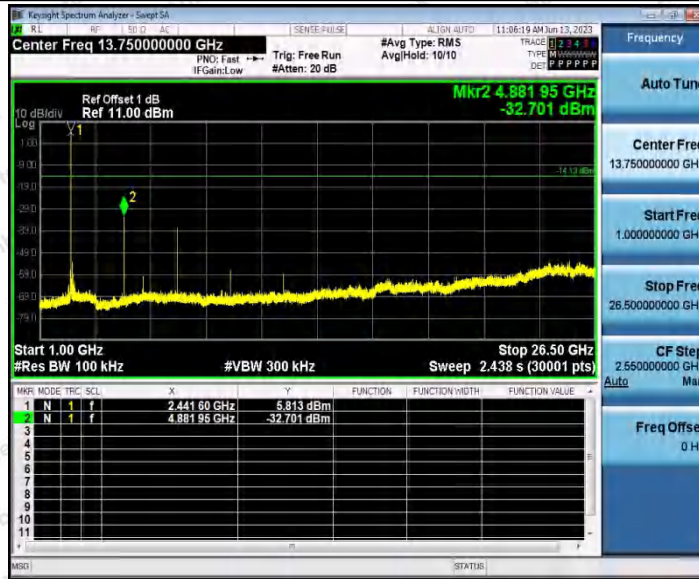
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Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com

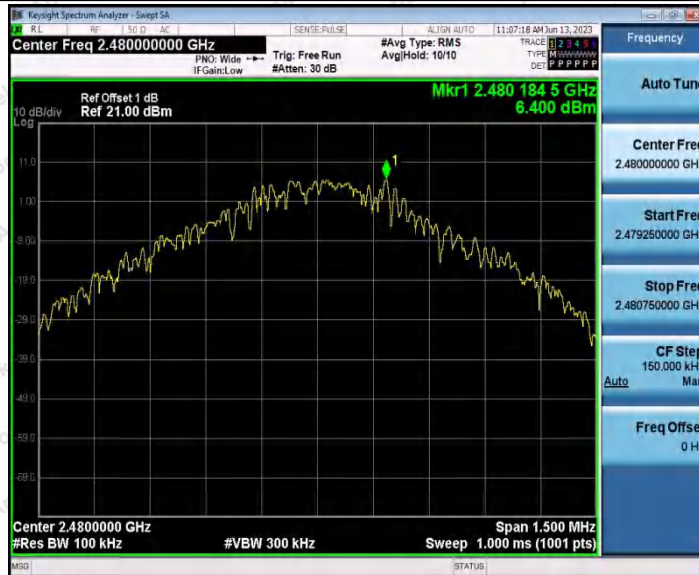
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



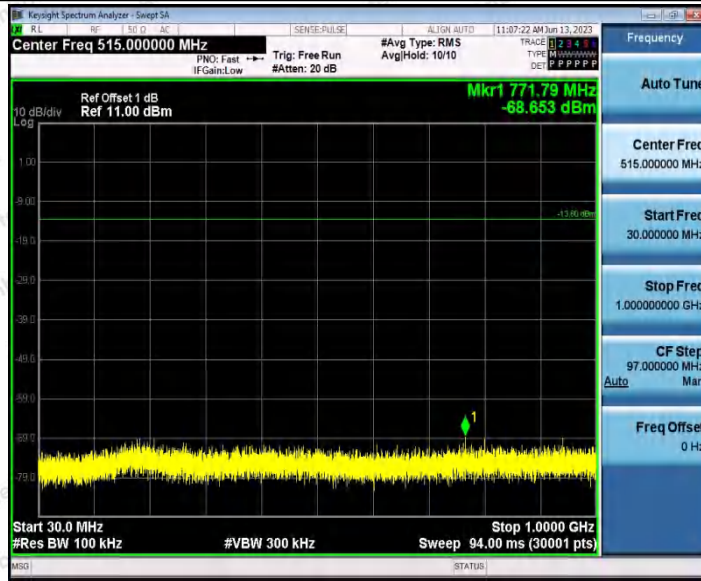
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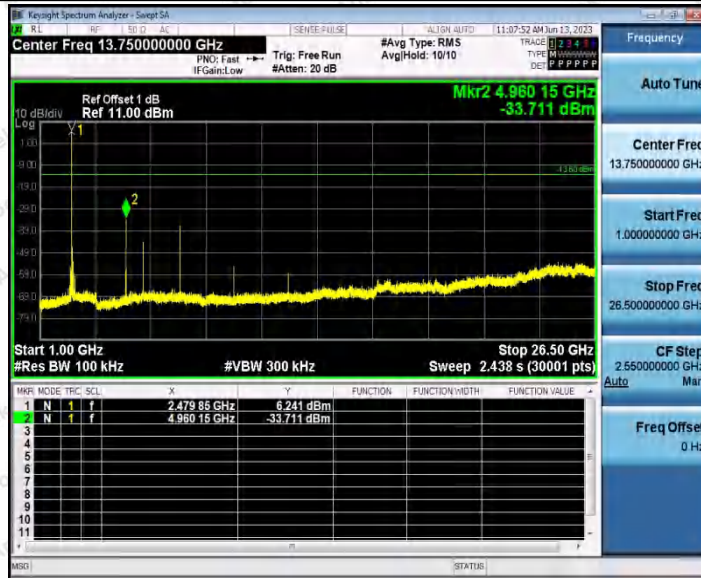
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

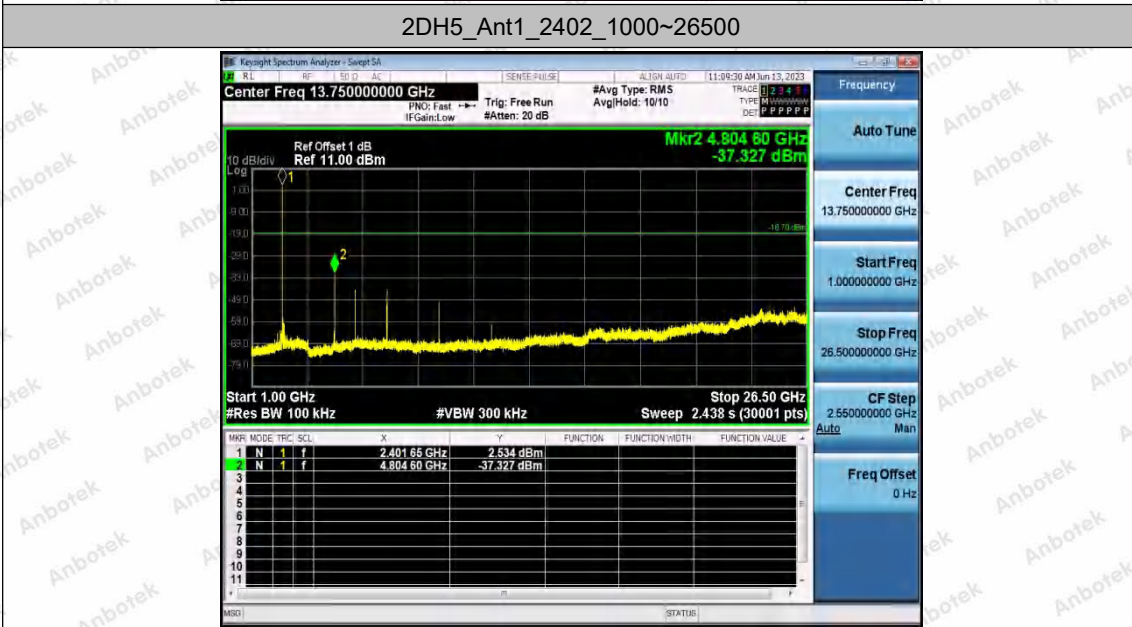
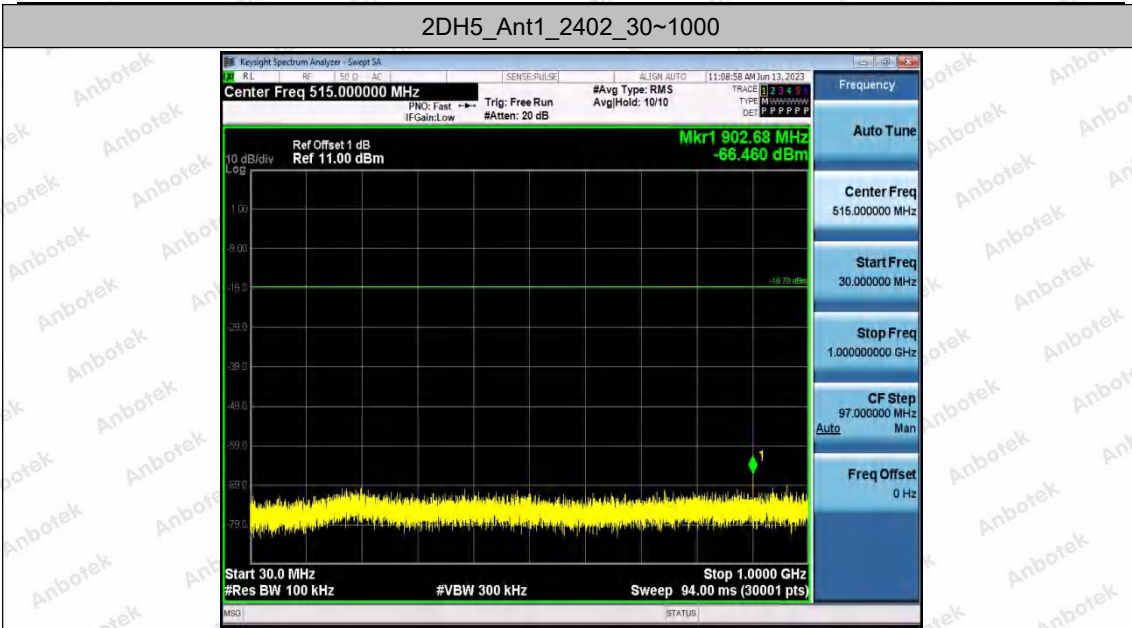


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2DH5_Ant1_2441_0~Reference

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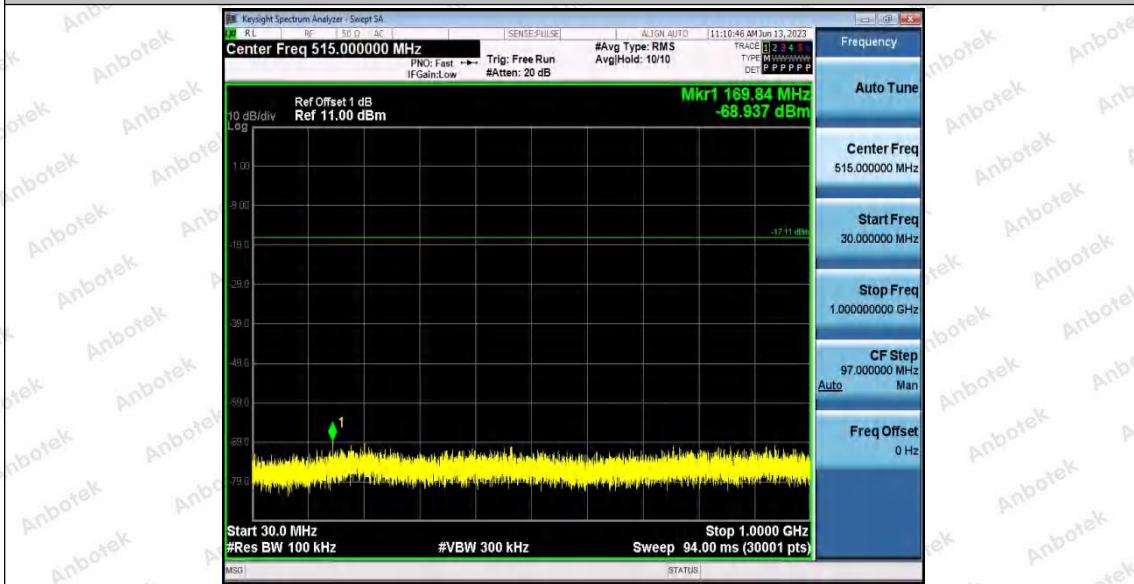
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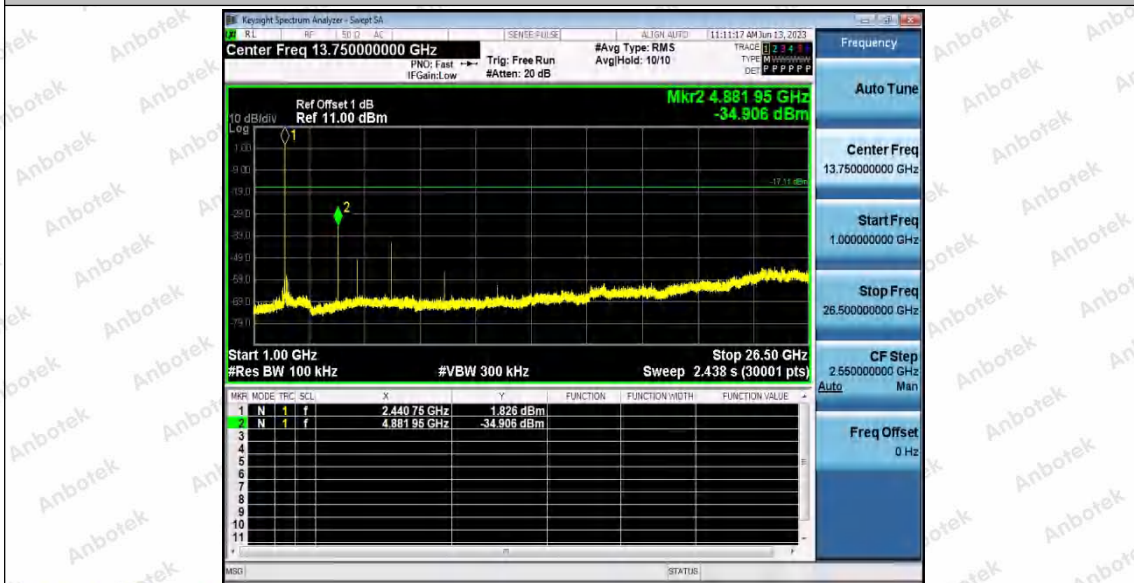




2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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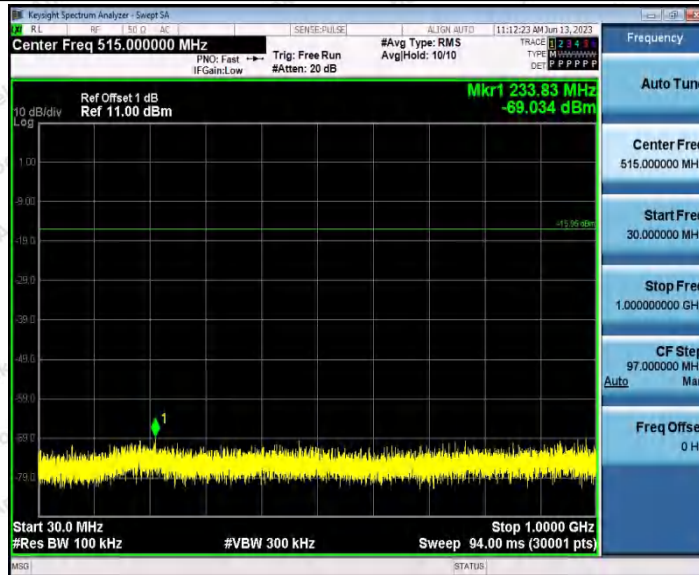
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



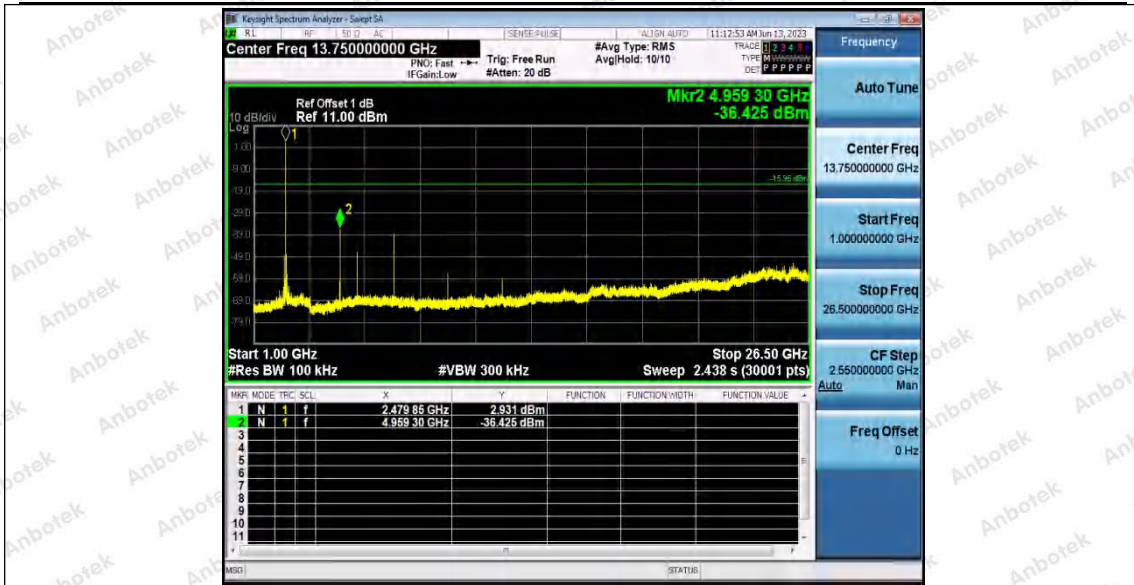
2DH5_Ant1_2480_1000~26500

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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	6.25	46.08	3.36
		2441	2.89	6.25	46.24	3.35
		2480	2.88	6.25	46.08	3.36
2DH5	Ant1	2402	2.89	6.25	46.24	3.35
		2441	2.88	6.25	46.08	3.36
		2480	2.90	6.26	46.33	3.34

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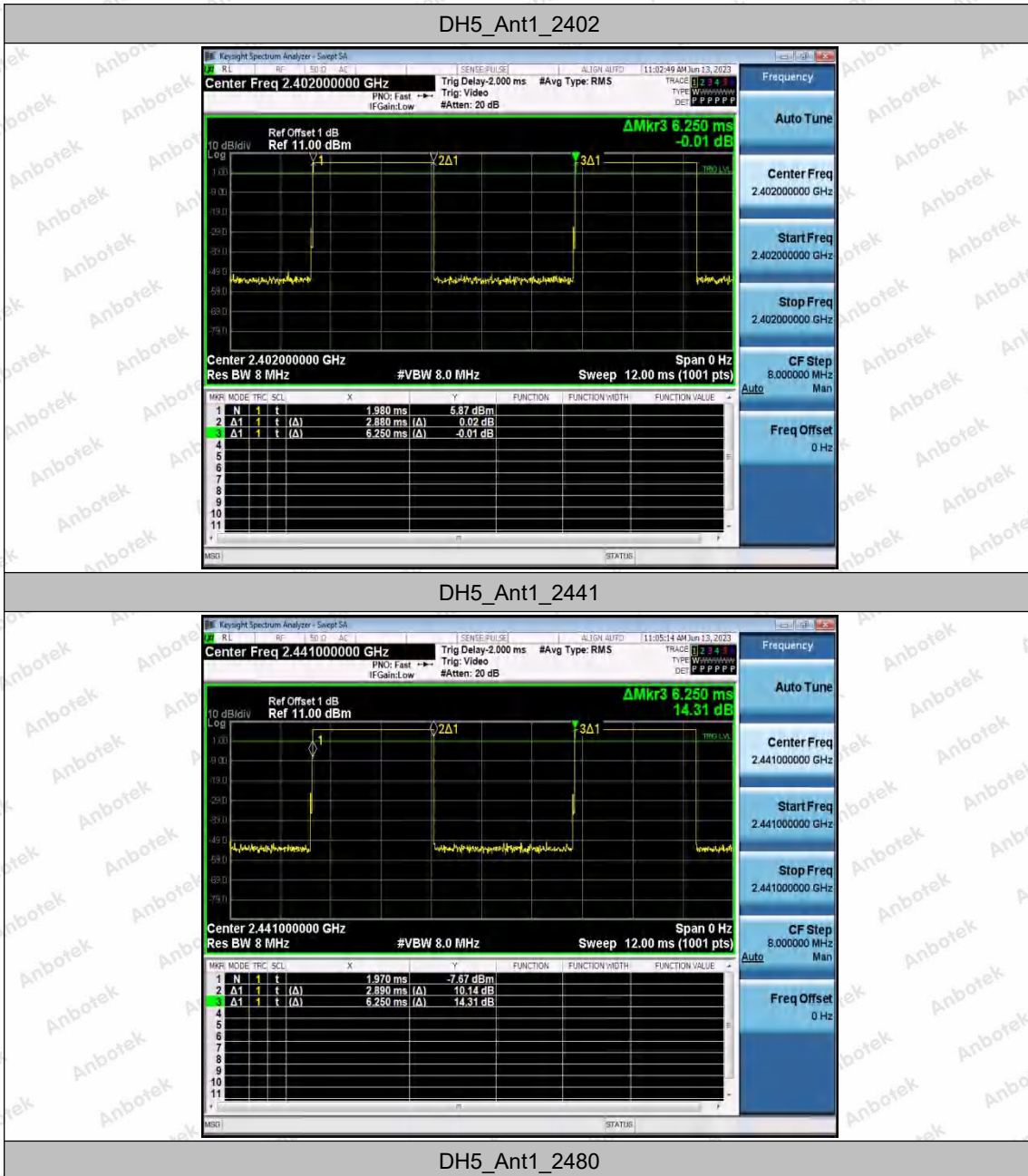
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Test Graphs

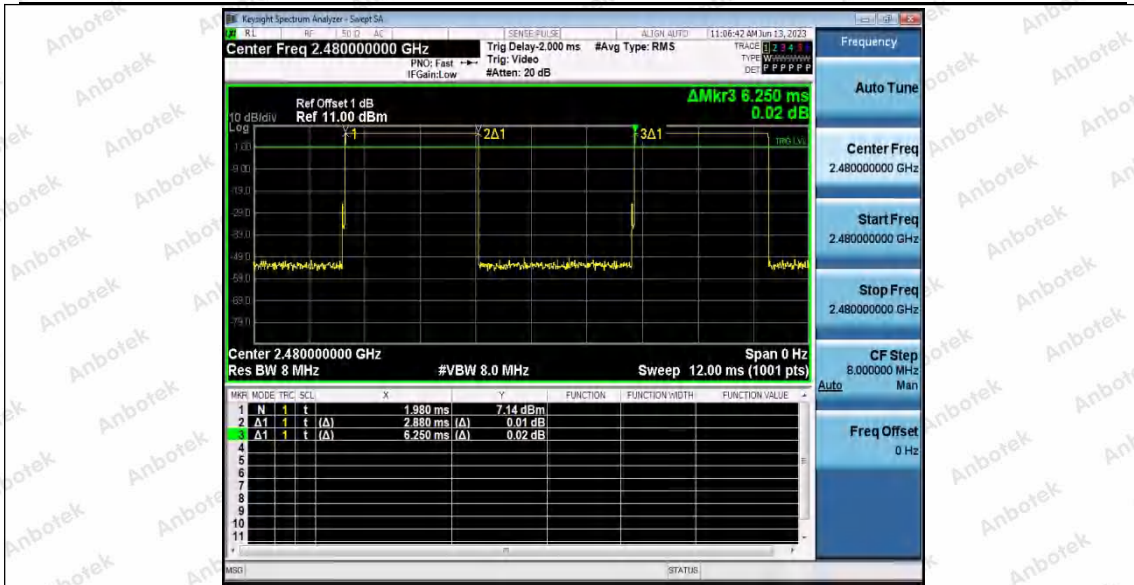


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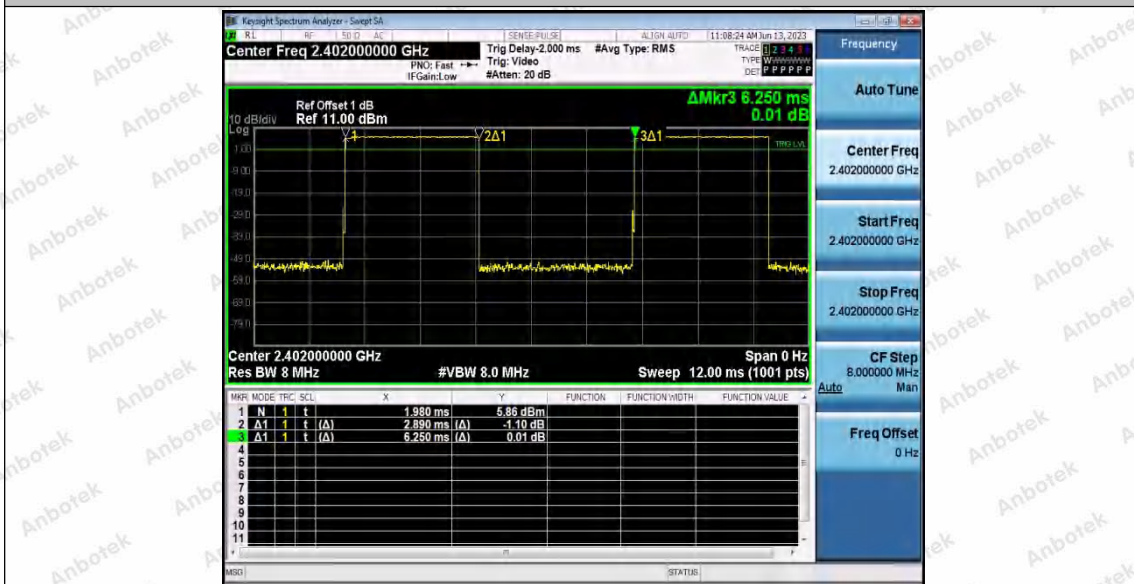
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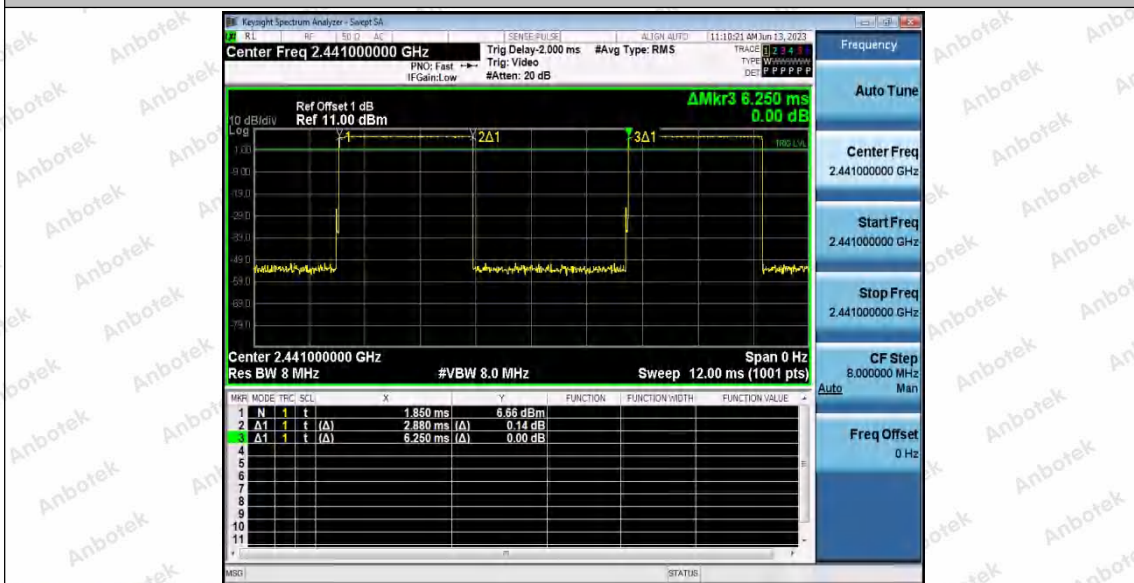




2DH5_Ant1_2402



2DH5_Ant1_2441

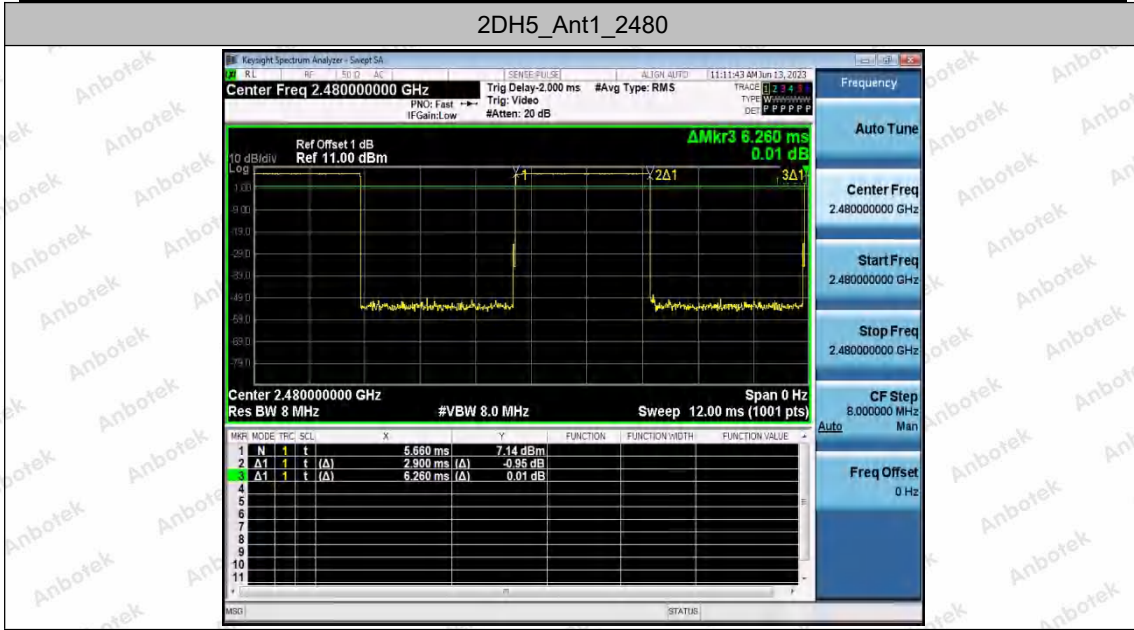


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