

Appendix Test Data

Report No.:	18220WC20161401	Test Sample No.:	1-2-2
Start Test Date:	2022.7.18	Finish Test Date:	2022.7.26
Test Engineer:	<i>Jony.He</i>	Auditor:	<i>Edward.Pan</i>
Temperature:	22.6°C	Relative Humidity:	53.8 %
Pressure:	1012 hPa		

Appendix A: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.951	2401.538	2402.489	---	PASS
		2441	0.948	2440.538	2441.486	---	PASS
		2480	0.951	2479.538	2480.489	---	PASS
2DH5	Ant1	2402	1.323	2401.337	2402.660	---	PASS
		2441	1.308	2440.343	2441.651	---	PASS
		2480	1.308	2479.343	2480.651	---	PASS
3DH5	Ant1	2402	1.317	2401.343	2402.660	---	PASS
		2441	1.311	2440.346	2441.657	---	PASS
		2480	1.278	2479.349	2480.627	---	PASS

Test Graphs

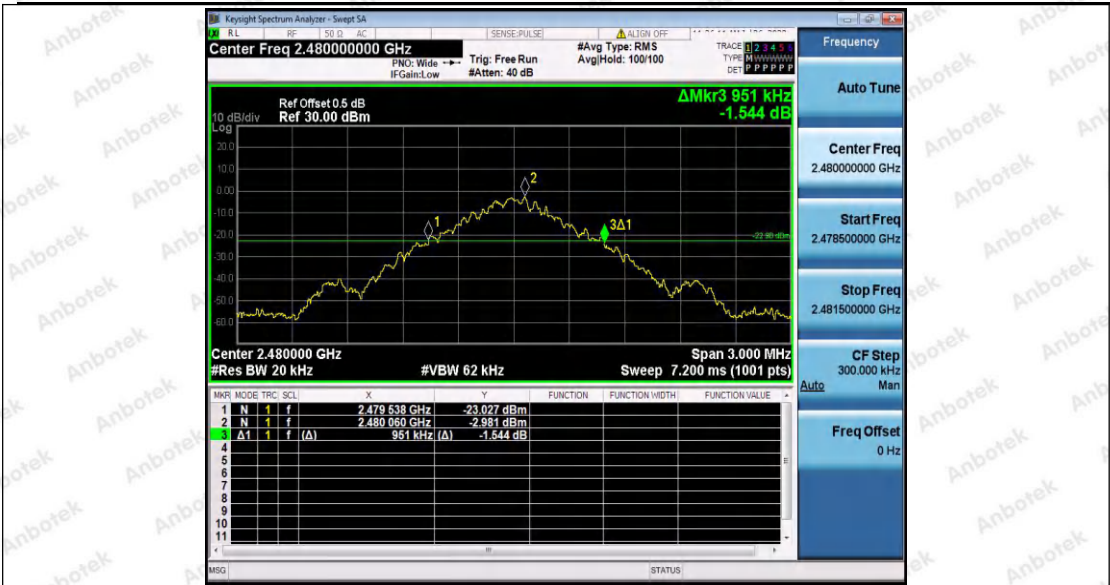
DH5_Ant1_2402



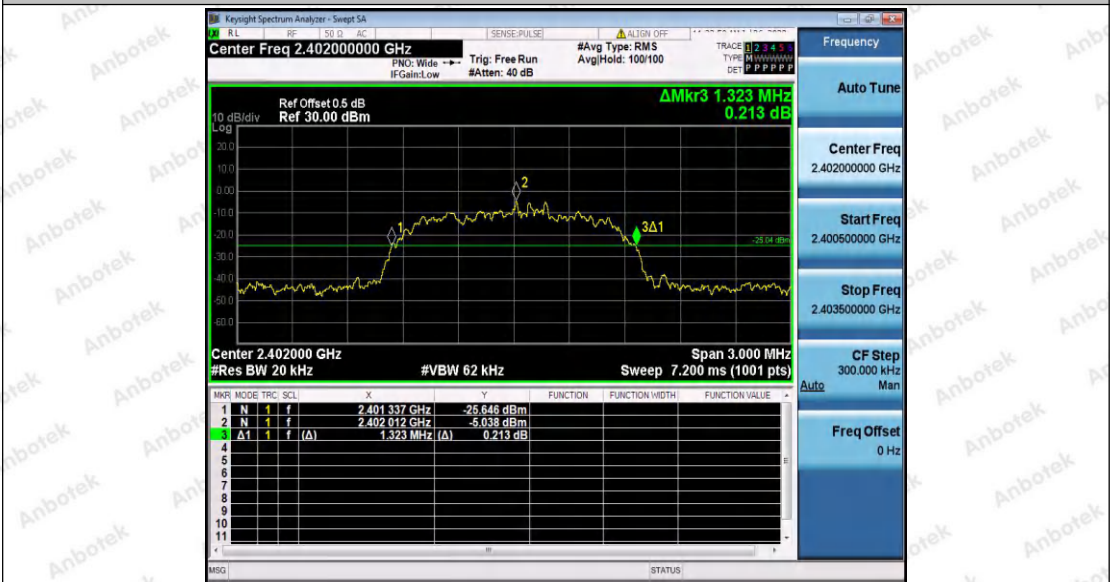
DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



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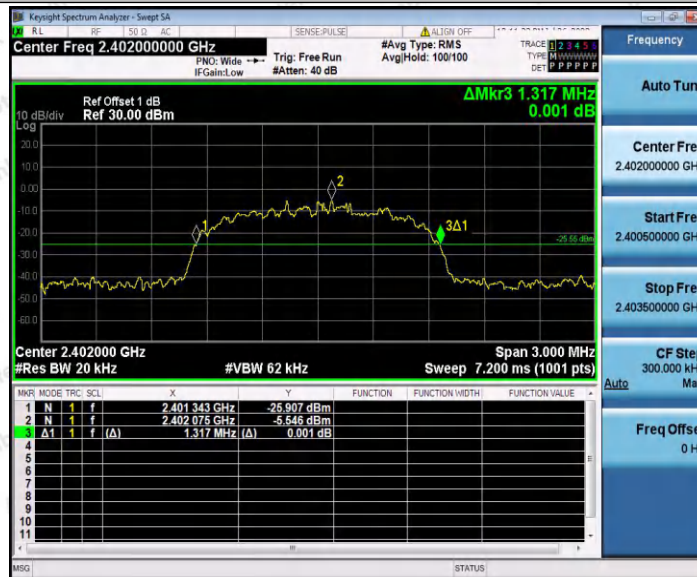
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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3DH5_Ant1_2480



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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88218	2401.55 9	2402.442	---	PASS
		2441	0.88783	2440.55 9	2441.447	---	PASS
		2480	0.89243	2479.55 4	2480.447	---	PASS
2DH5	Ant1	2402	1.1901	2401.40 5	2402.595	---	PASS
		2441	1.1952	2440.40 2	2441.597	---	PASS
		2480	1.1956	2479.40 1	2480.597	---	PASS
3DH5	Ant1	2402	1.1984	2401.39 3	2402.591	---	PASS
		2441	1.2074	2440.38 8	2441.596	---	PASS
		2480	1.2068	2479.39 1	2480.597	---	PASS

Test Graphs

DH5_Ant1_2402



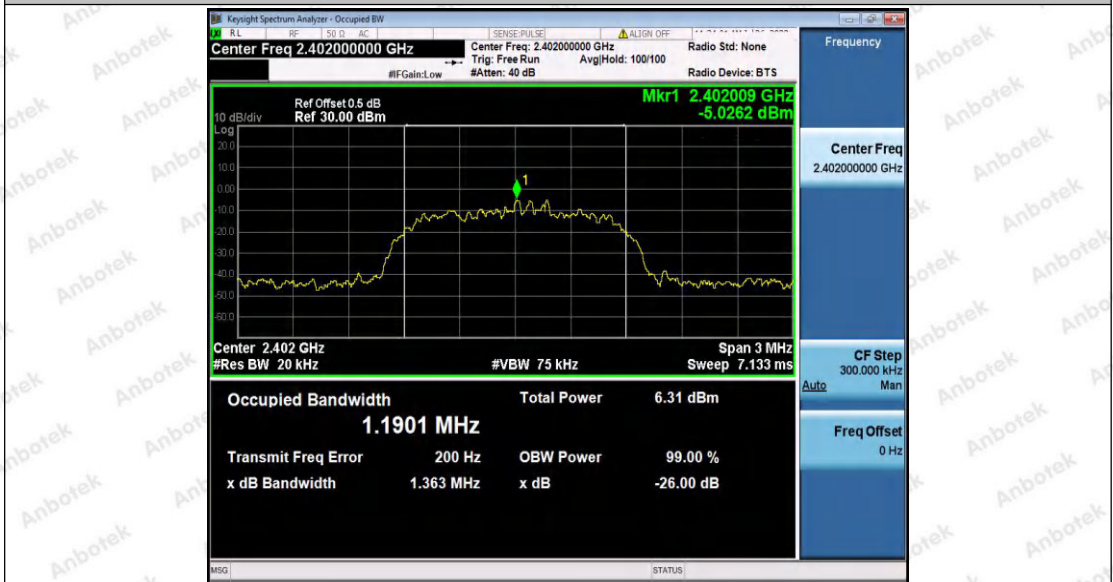
DH5_Ant1_2441



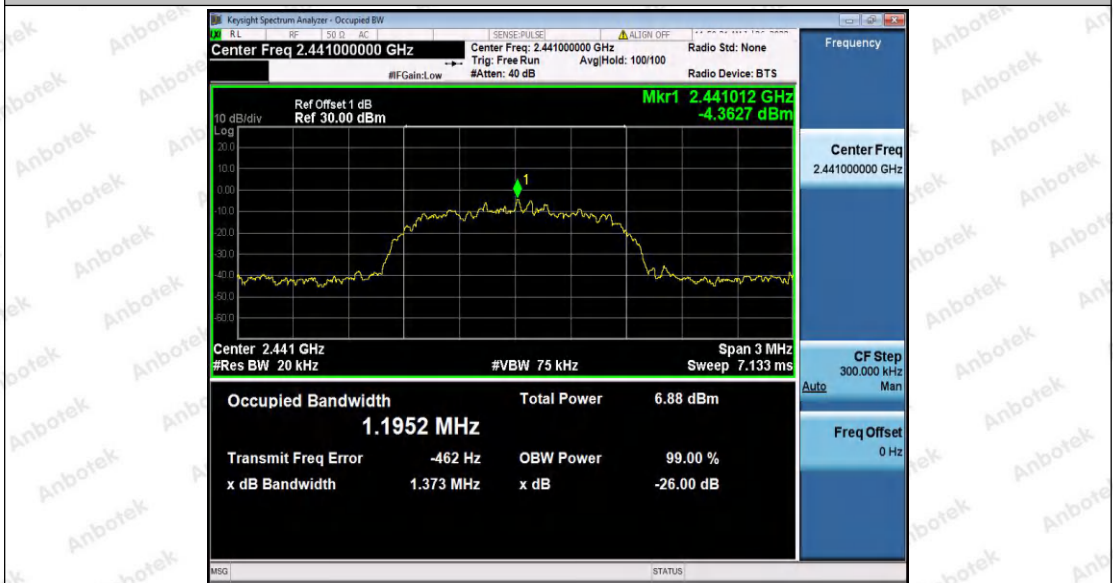
DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



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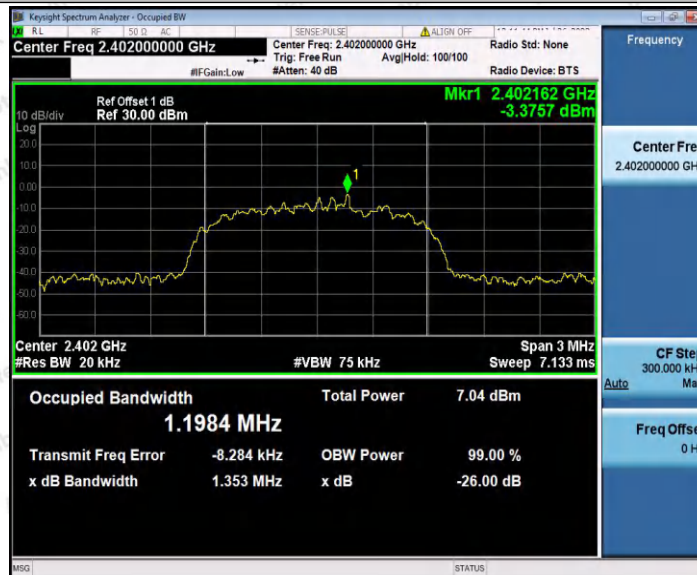
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2DH5_Ant1_2480



3DH5_Ant1_2402



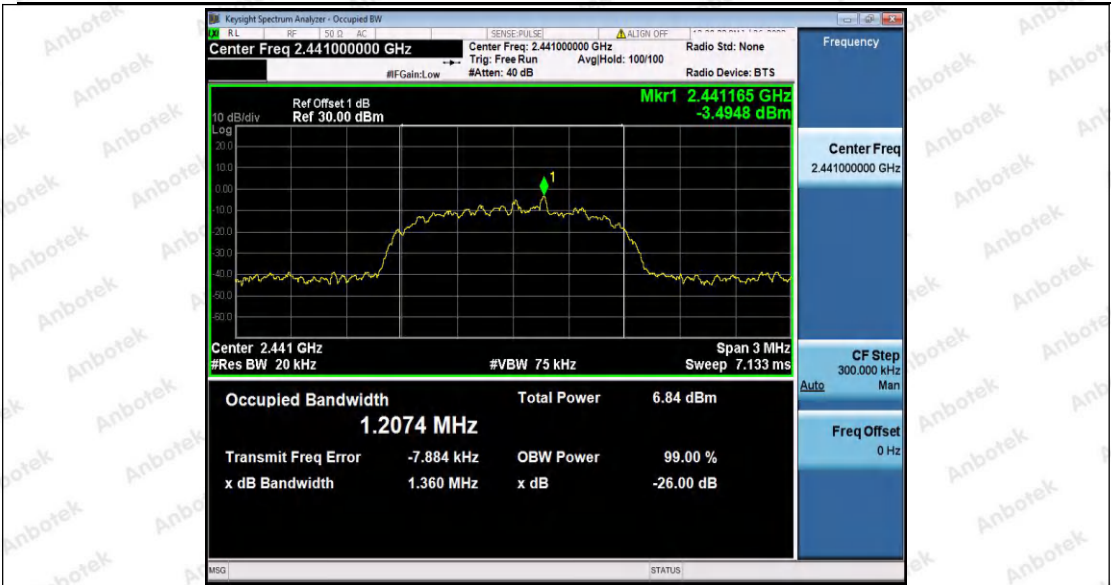
3DH5_Ant1_2441

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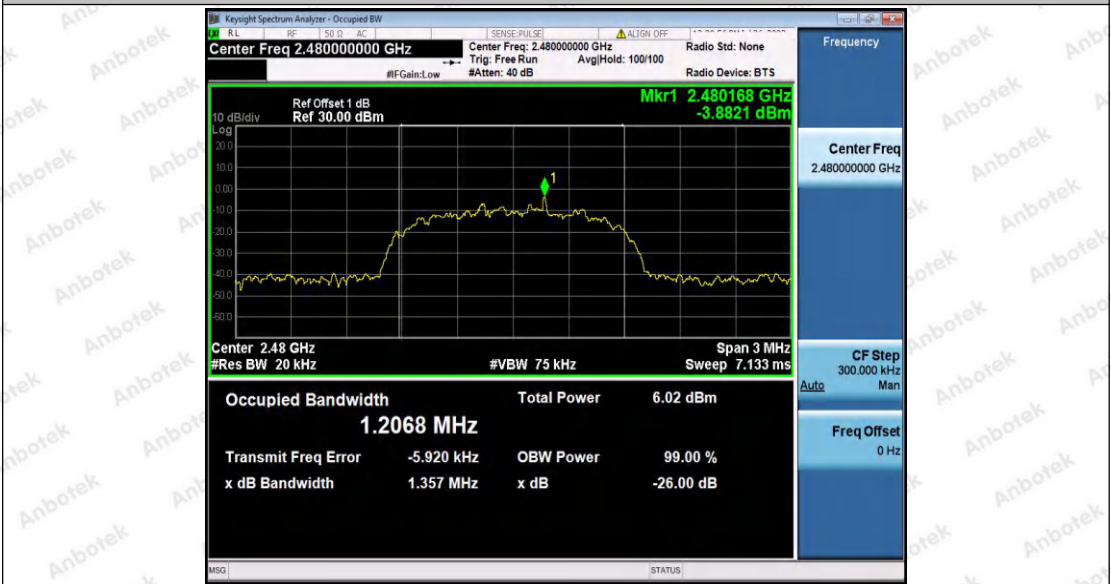
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3DH5_Ant1_2480



Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.69	≤20.97	PASS
		2441	1.38	≤20.97	PASS
		2480	0.76	≤20.97	PASS
2DH5	Ant1	2402	1.09	≤20.97	PASS
		2441	1.59	≤20.97	PASS
		2480	0.85	≤20.97	PASS
3DH5	Ant1	2402	1.93	≤20.97	PASS
		2441	1.64	≤20.97	PASS
		2480	0.95	≤20.97	PASS

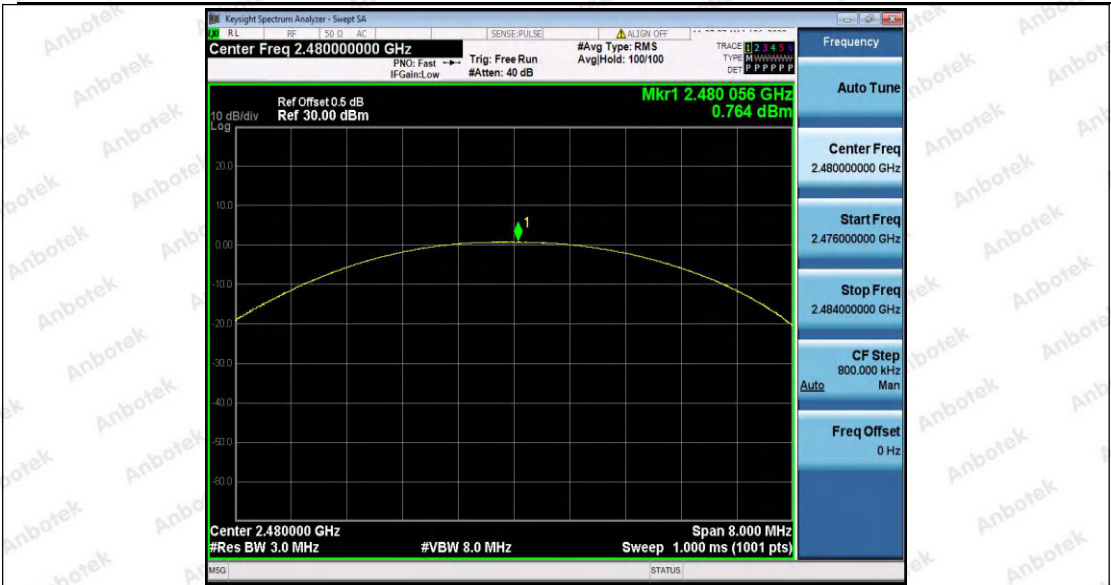
Test Graphs



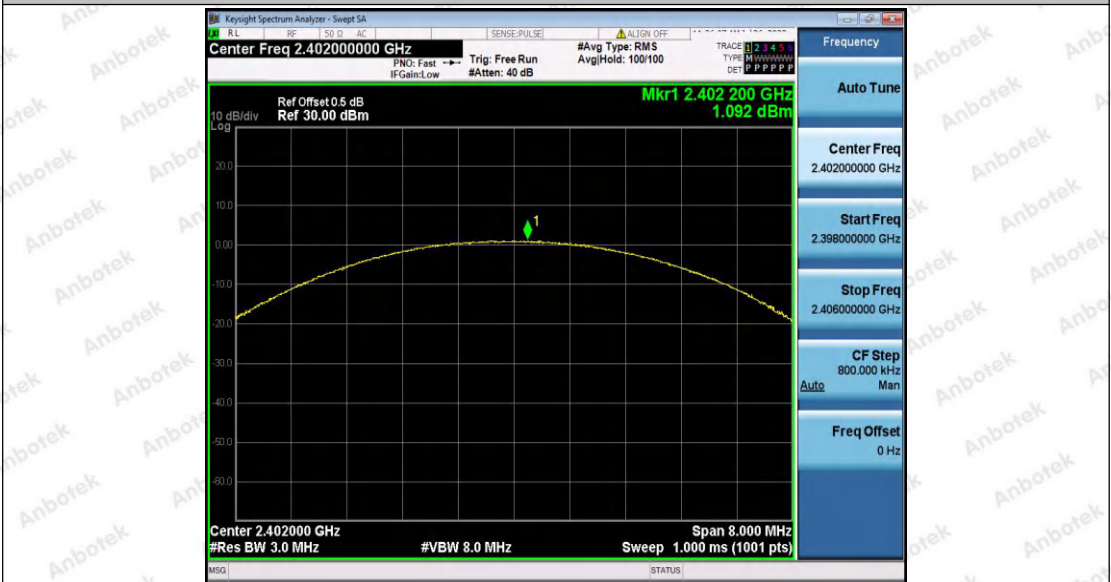
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2DH5_Ant1_2402



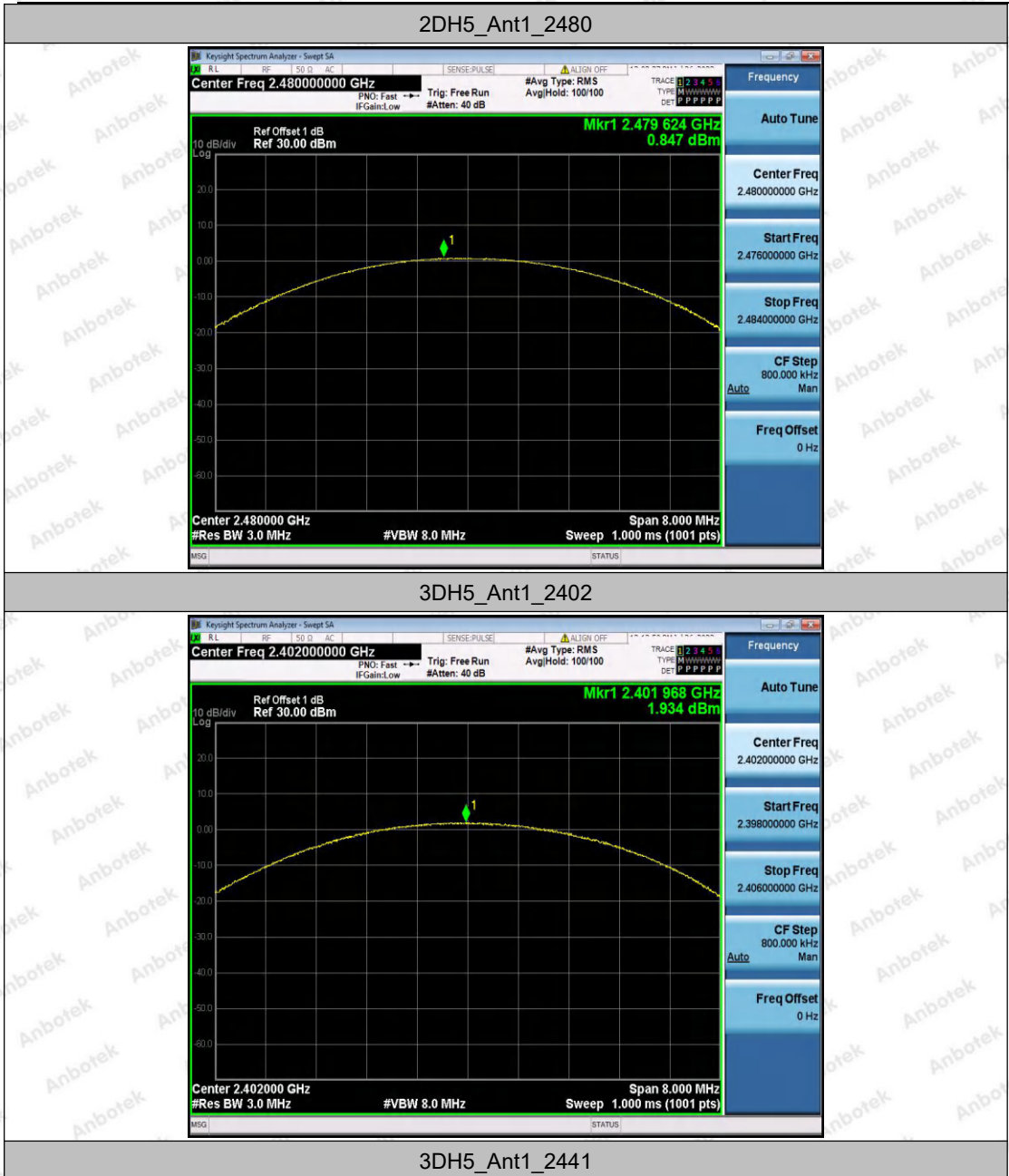
2DH5_Ant1_2441



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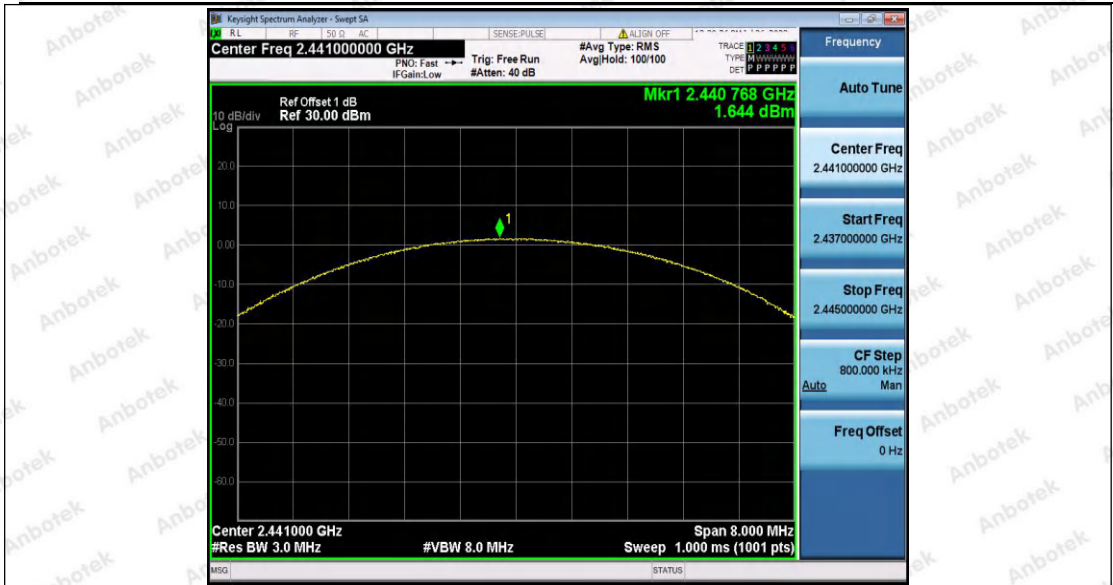
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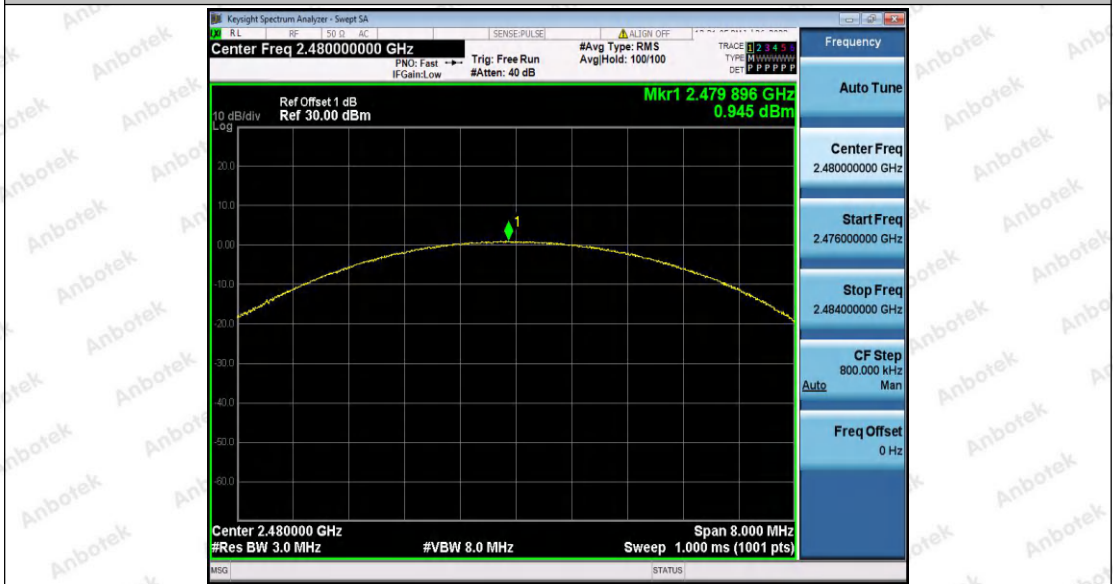
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3DH5_Ant1_2480



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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.034	≥0.951	PASS
2DH5	Ant1	Hop	1.022	≥0.882	PASS
3DH5	Ant1	Hop	0.88	≥0.878	PASS

Test Graphs

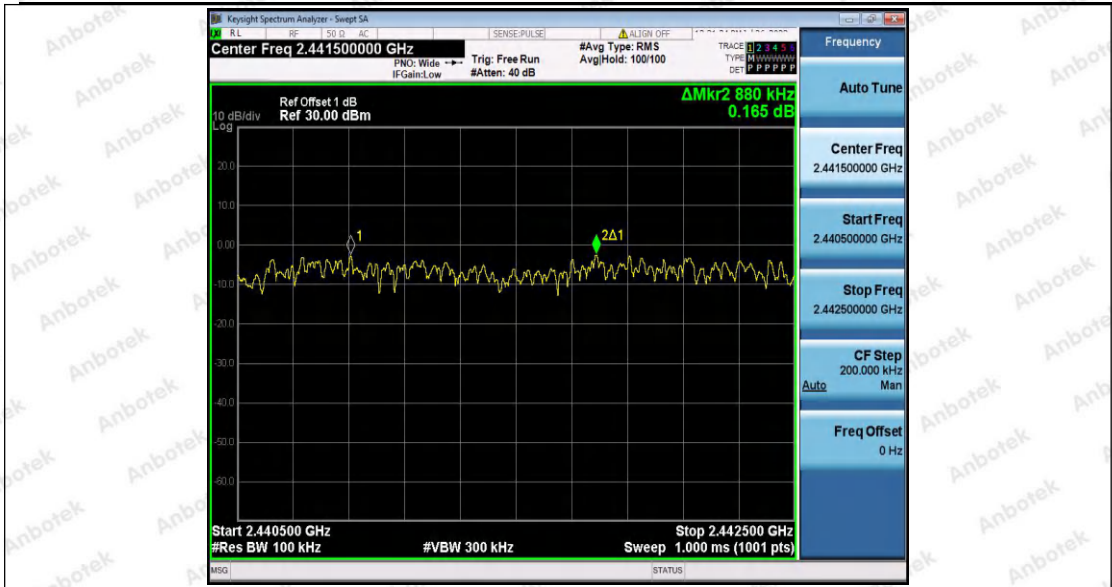


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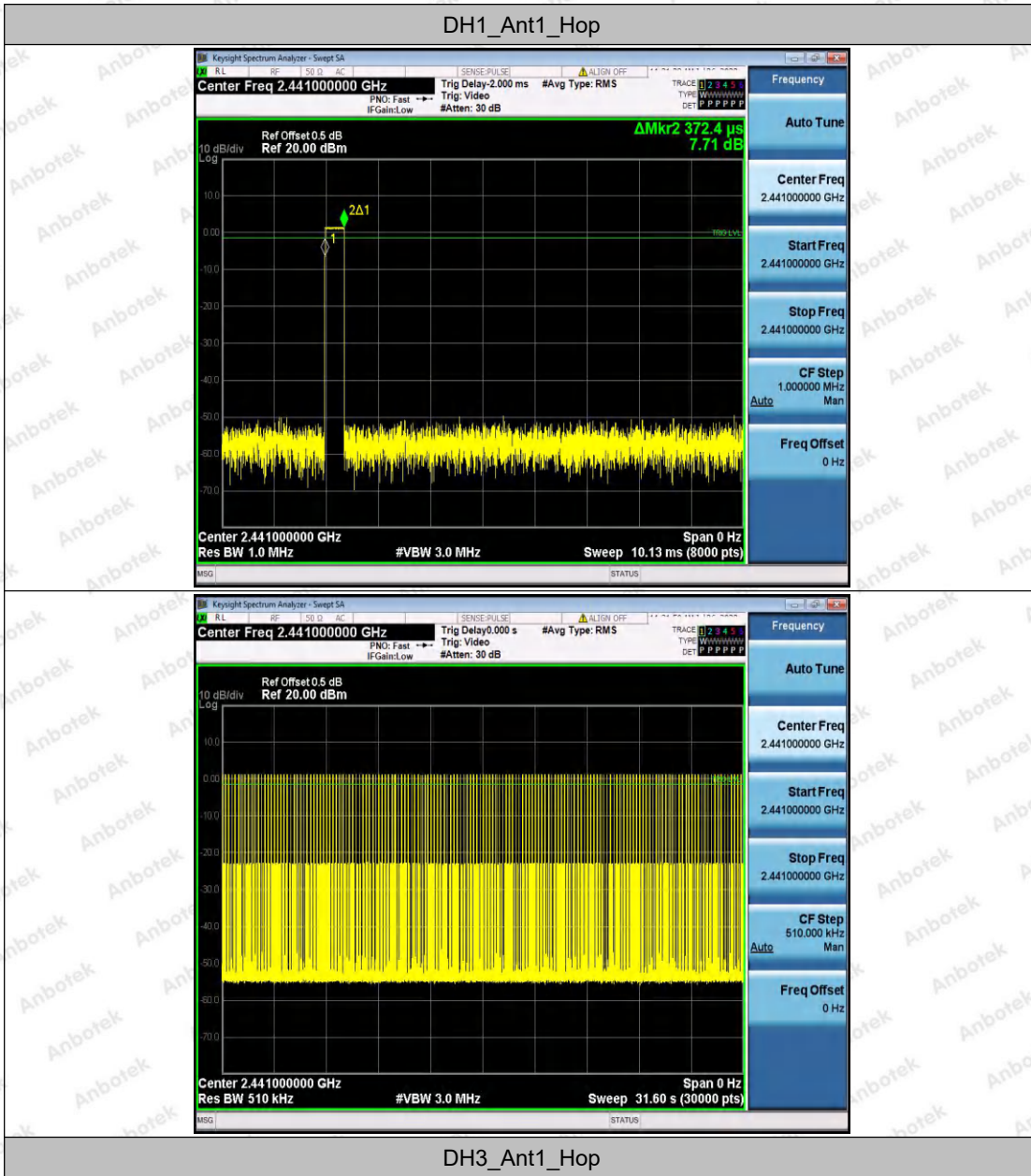
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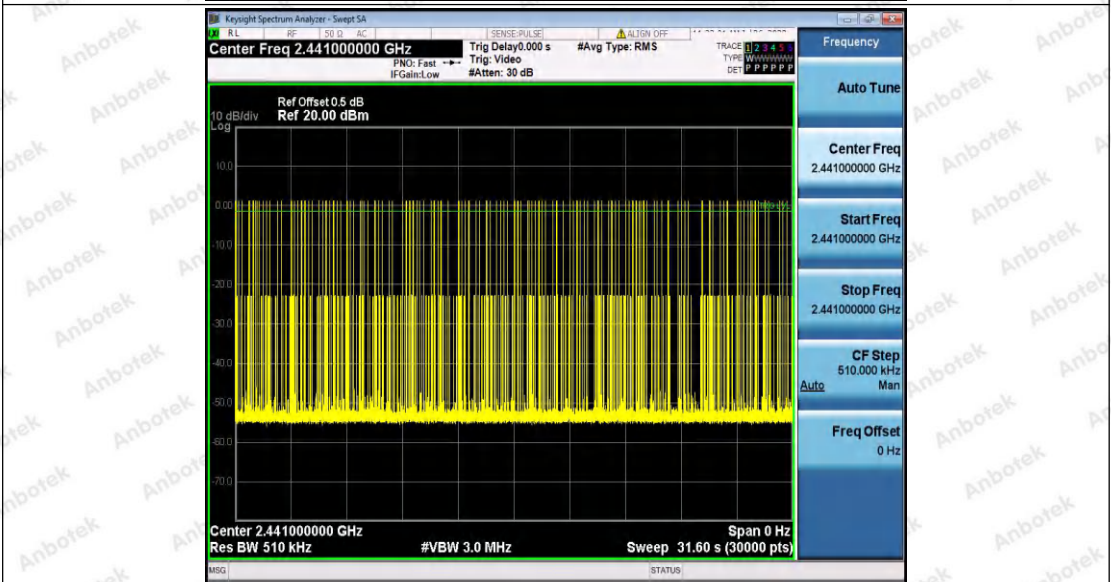
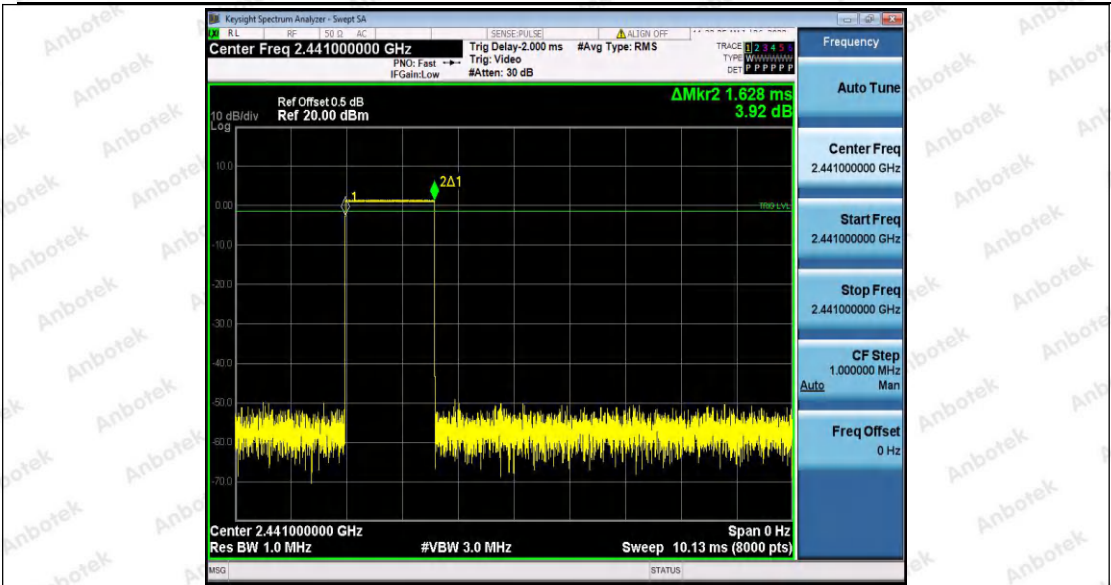
Appendix E: Time of occupancy

Test Result

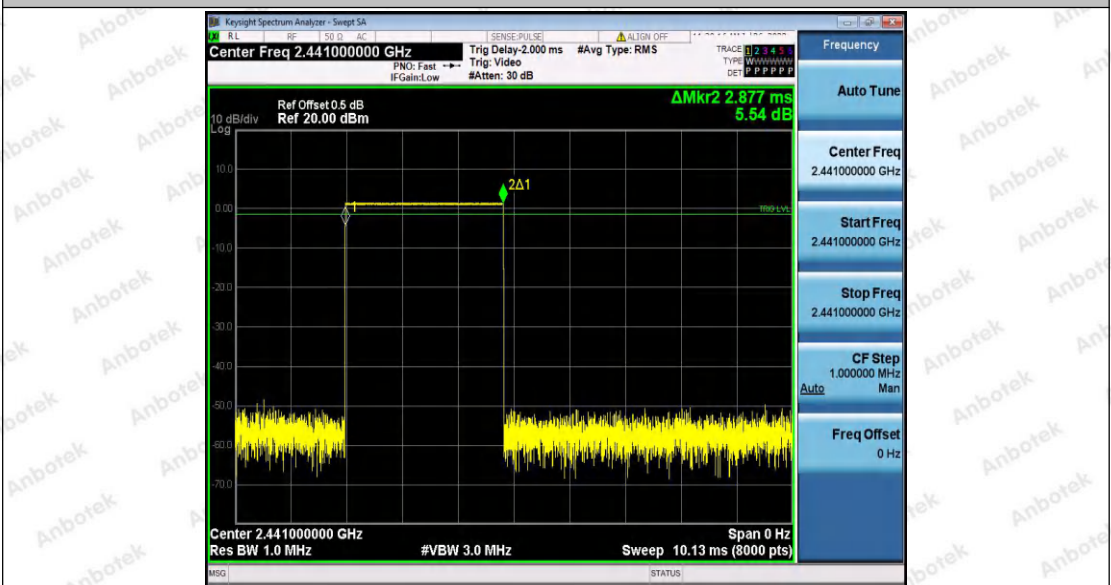
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	312	0.116	≤0.4	PASS
DH3	Ant1	Hop	1.63	158	0.257	≤0.4	PASS
DH5	Ant1	Hop	2.88	106	0.305	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
2DH5	Ant1	Hop	2.88	117	0.337	≤0.4	PASS
3DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
3DH5	Ant1	Hop	2.88	103	0.297	≤0.4	PASS

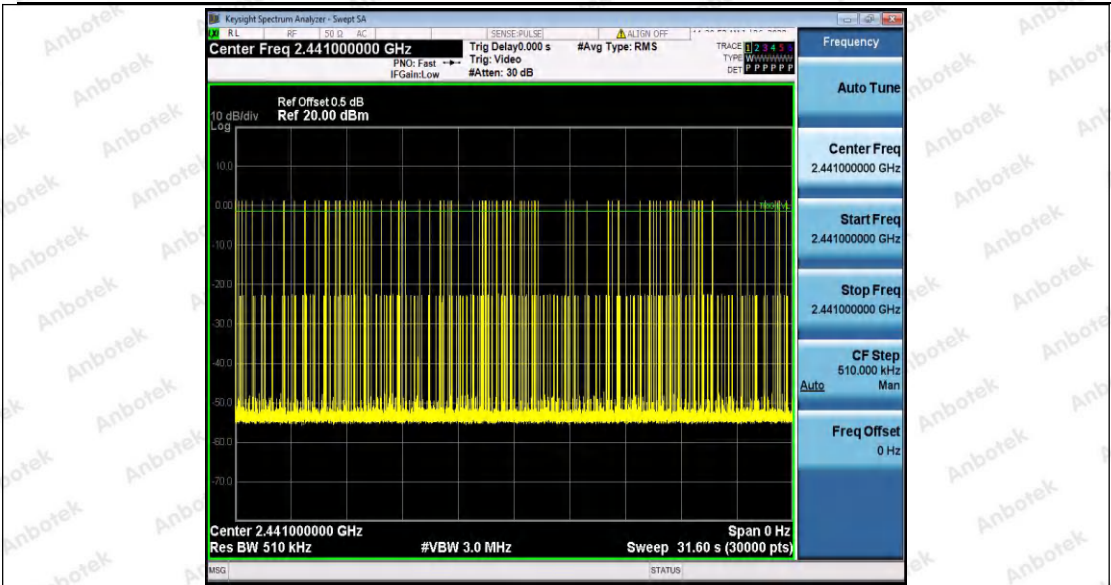
Test Graphs



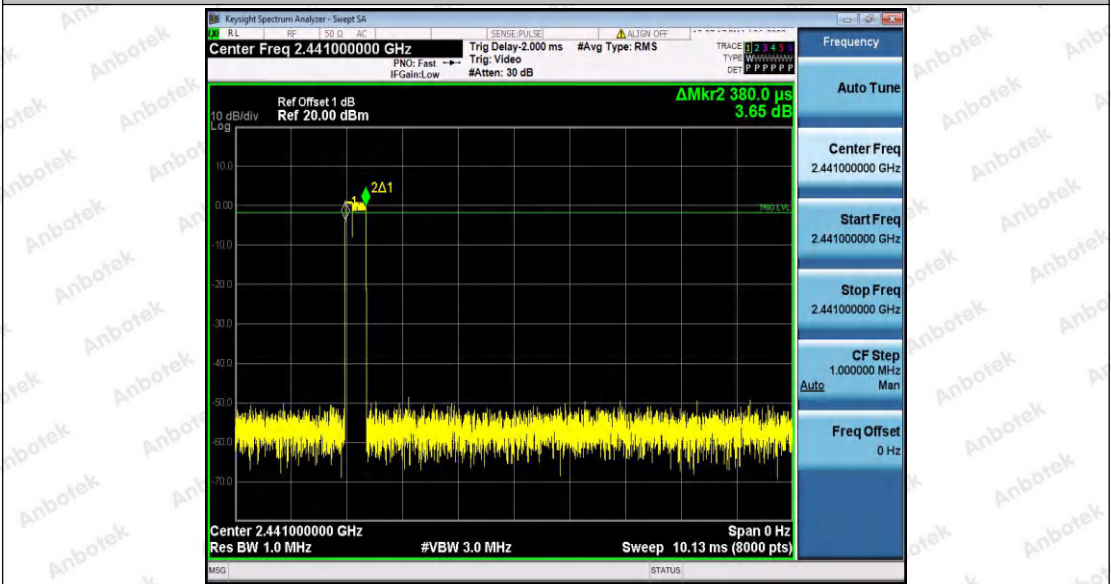


DH5_Ant1_Hop

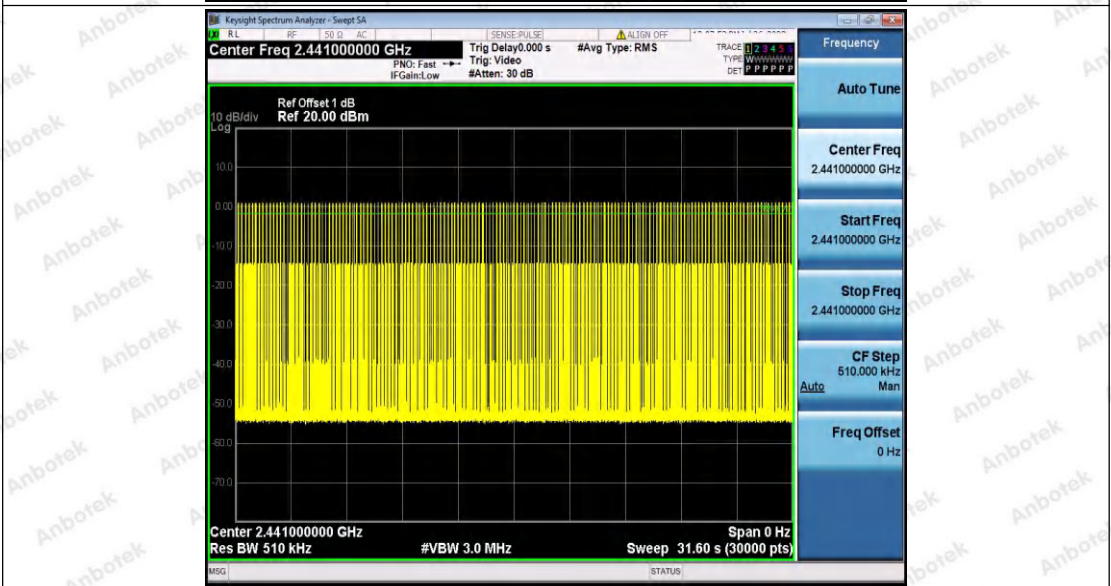




2DH1_Ant1_Hop



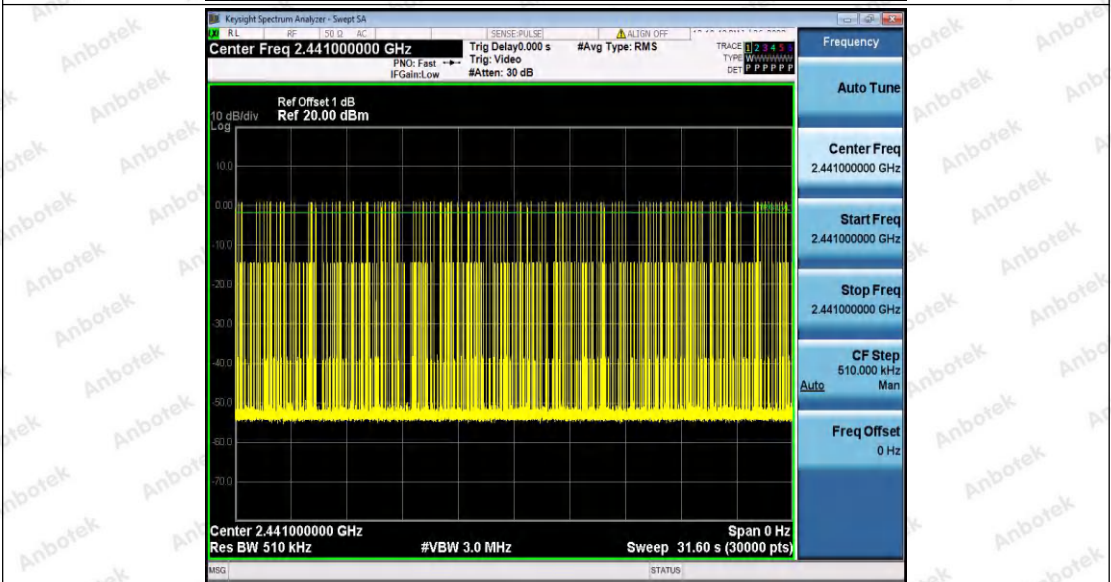
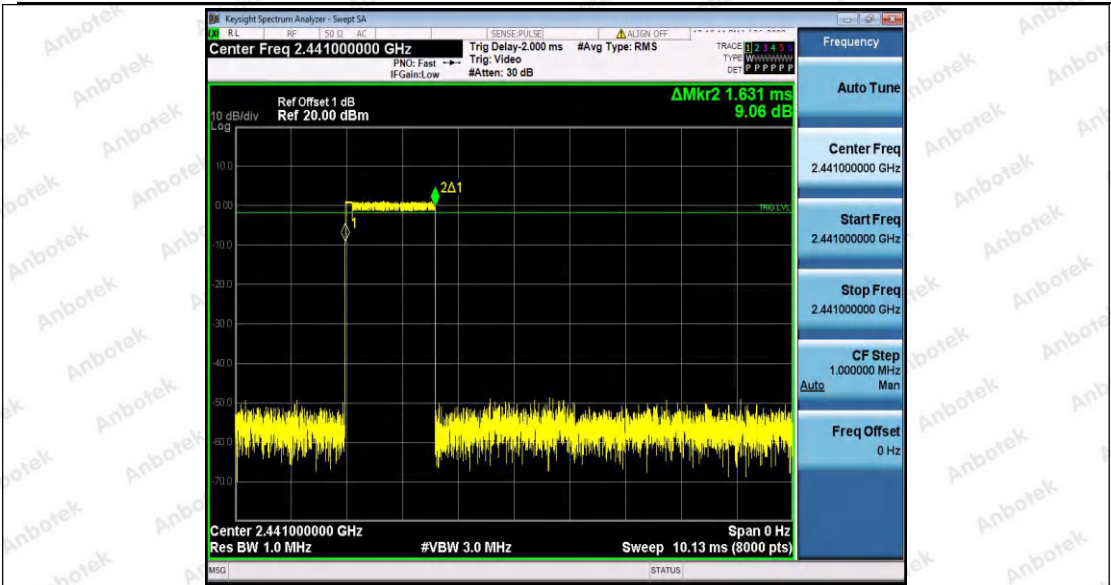
2DH3_Ant1_Hop



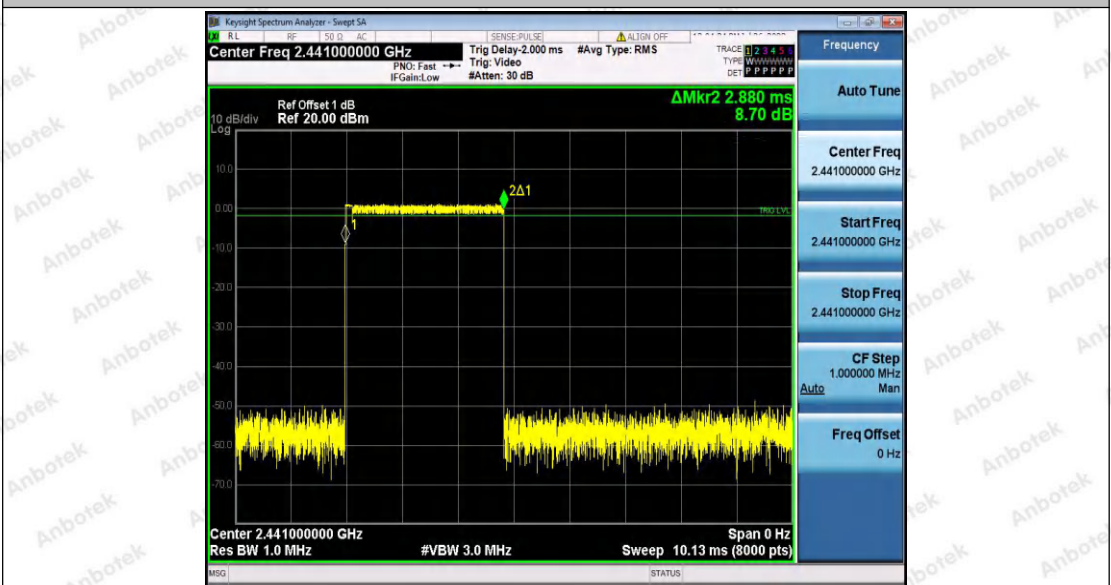
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2DH5_Ant1_Hop

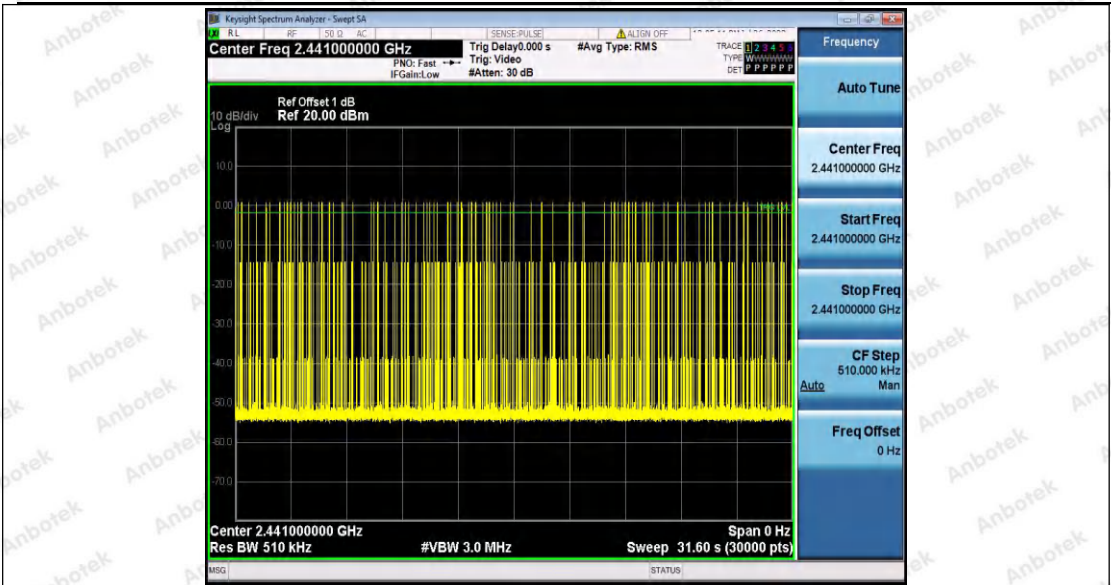


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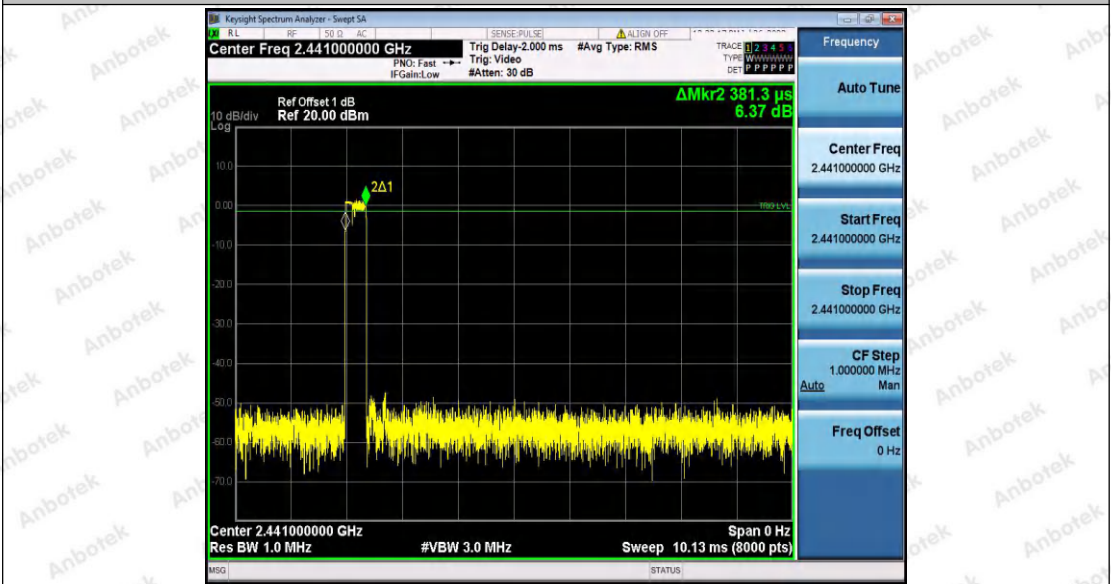
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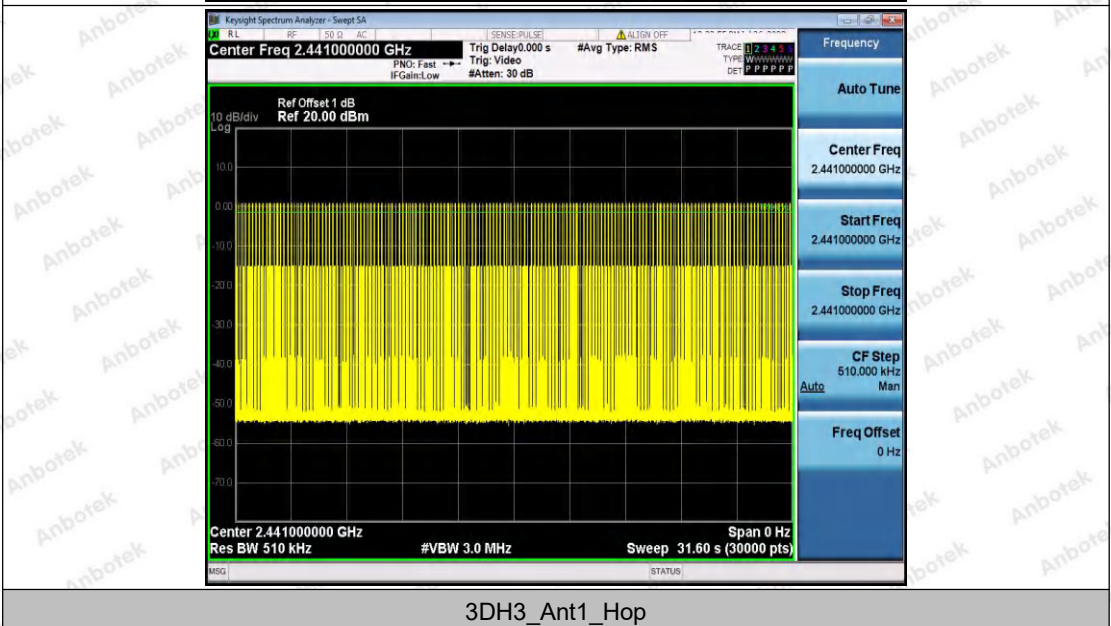
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3DH1_Ant1_Hop



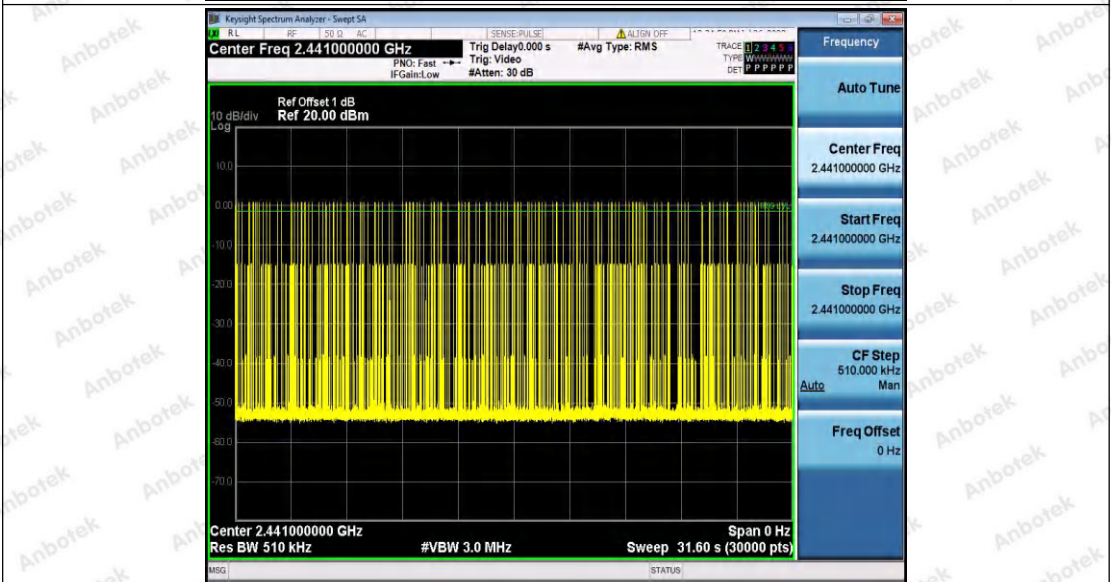
3DH3_Ant1_Hop



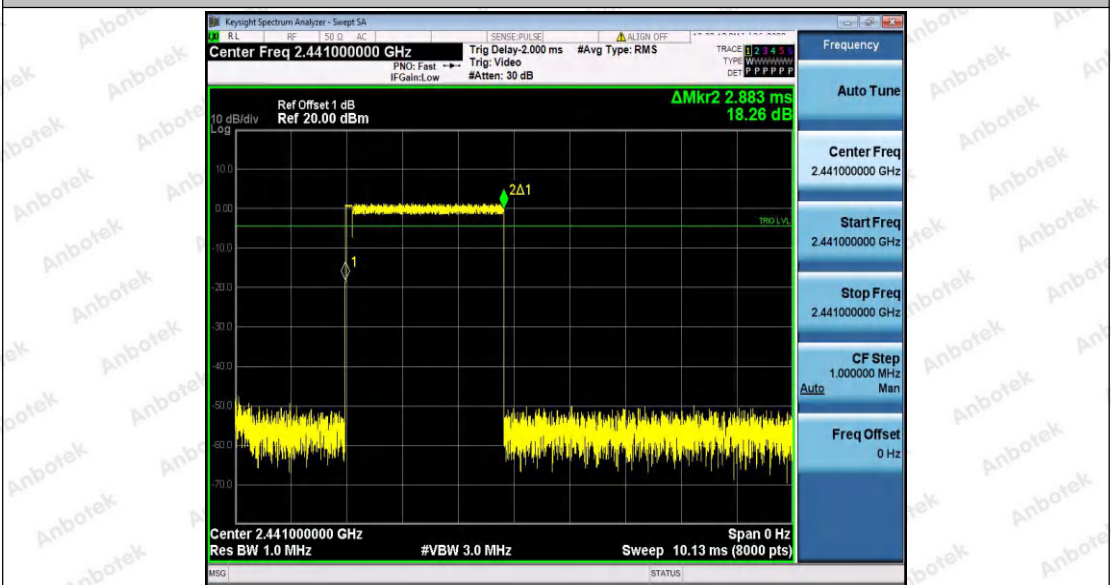
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3DH5_Ant1_Hop

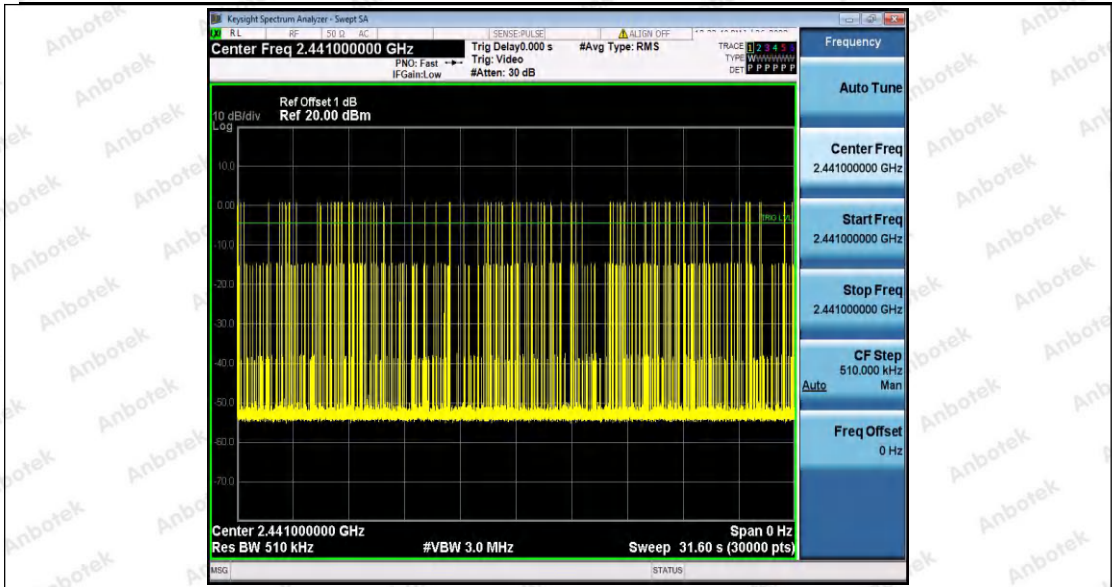


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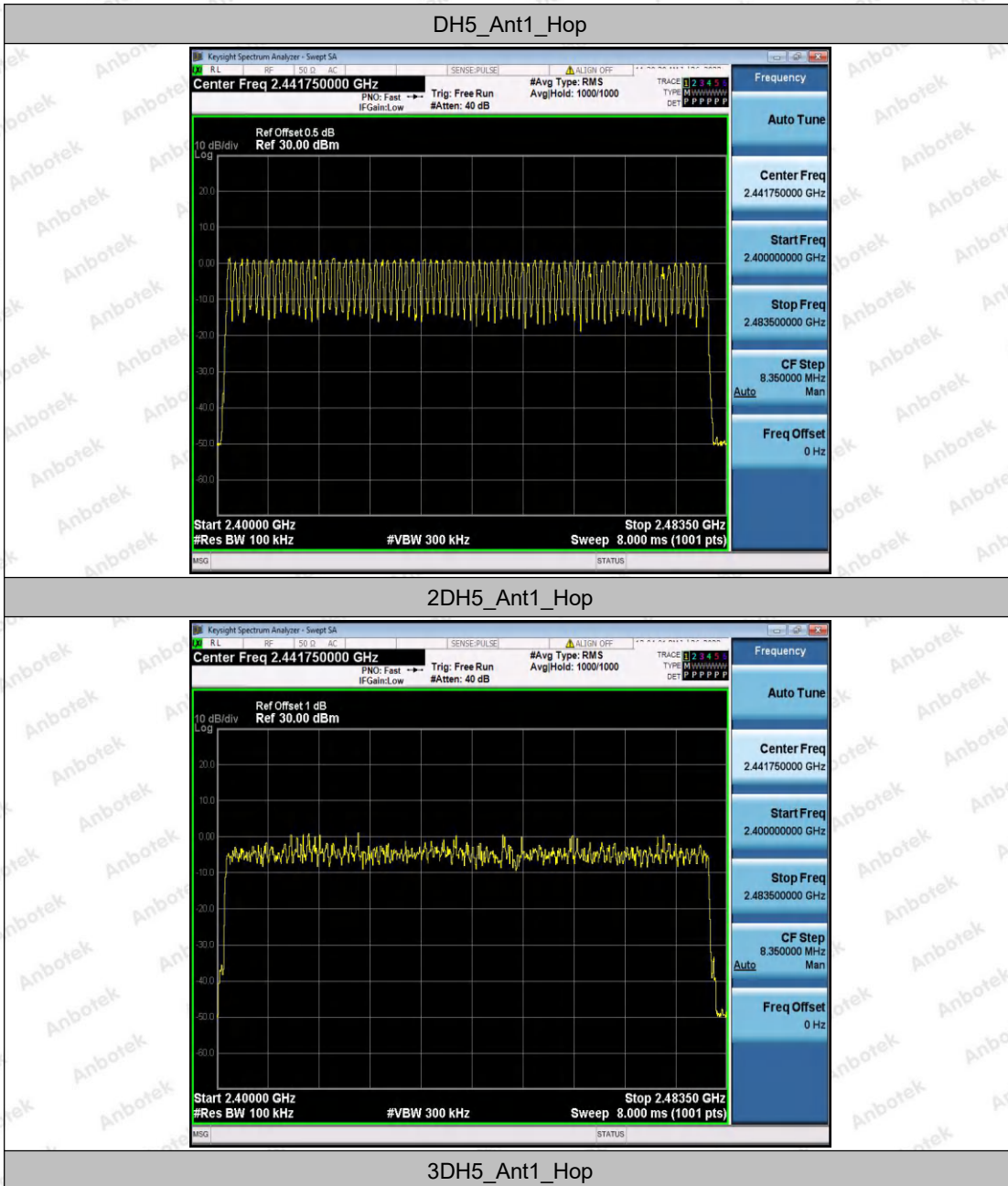
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Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

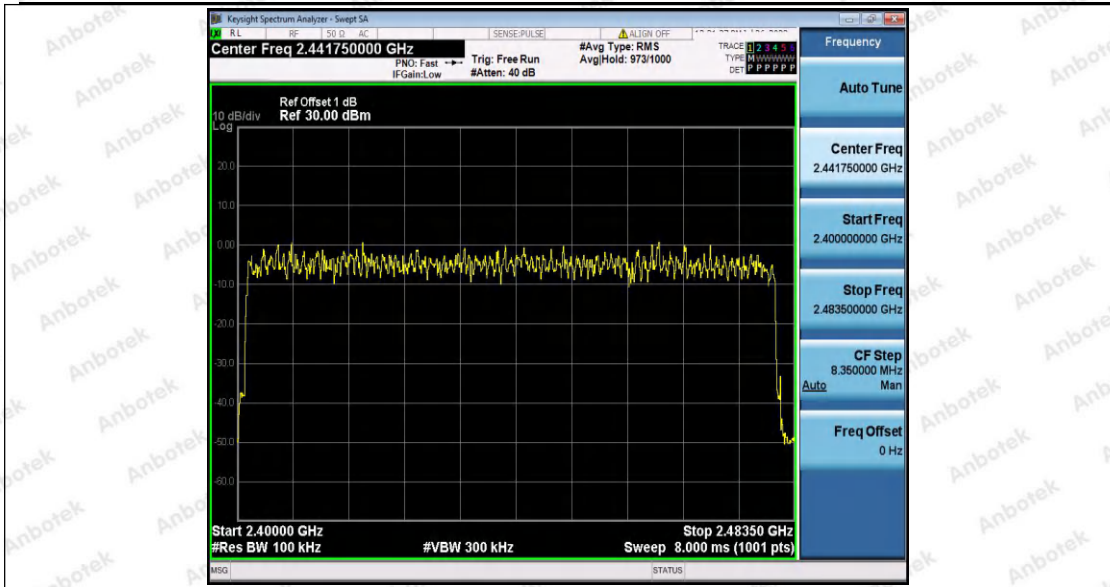


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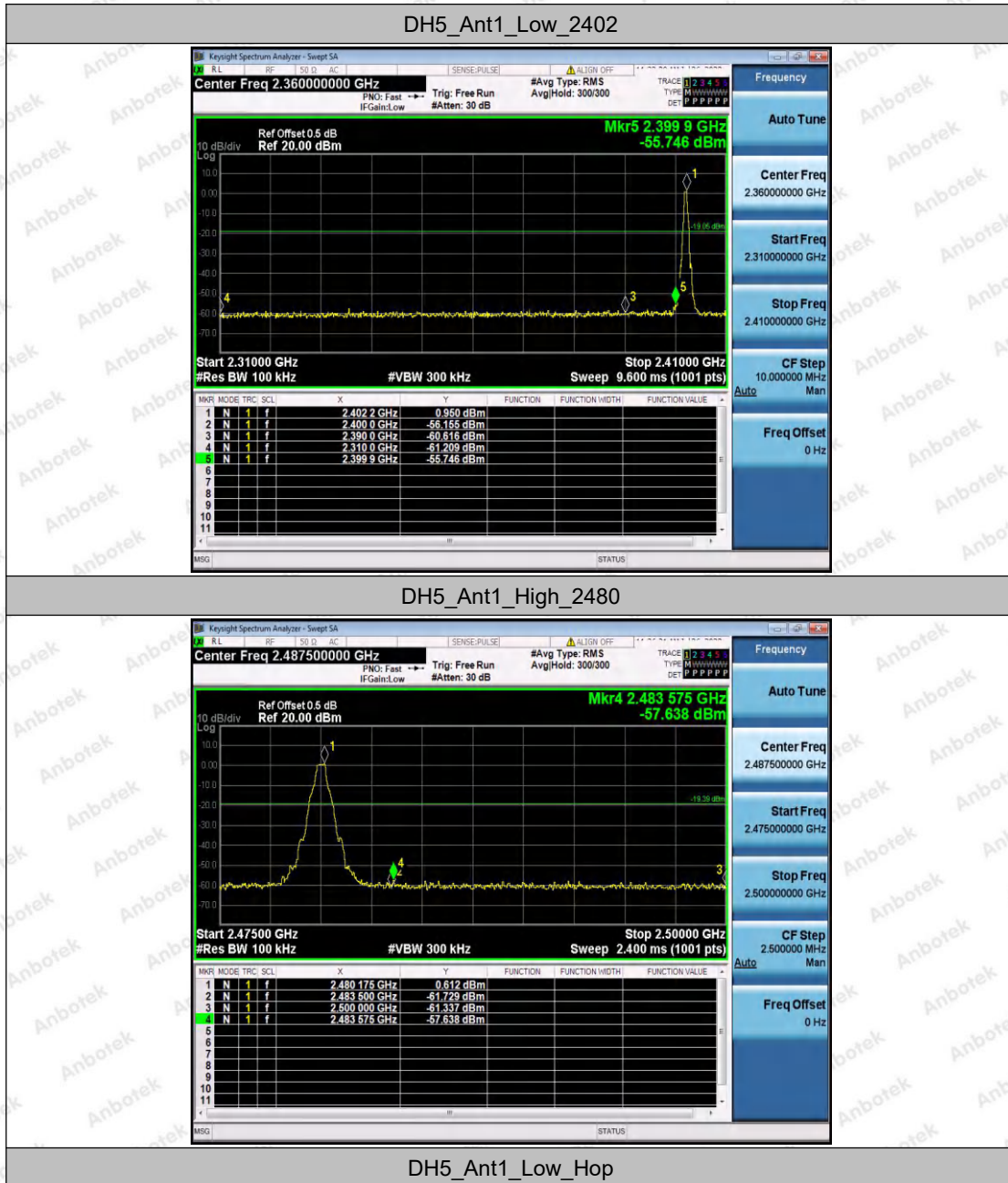
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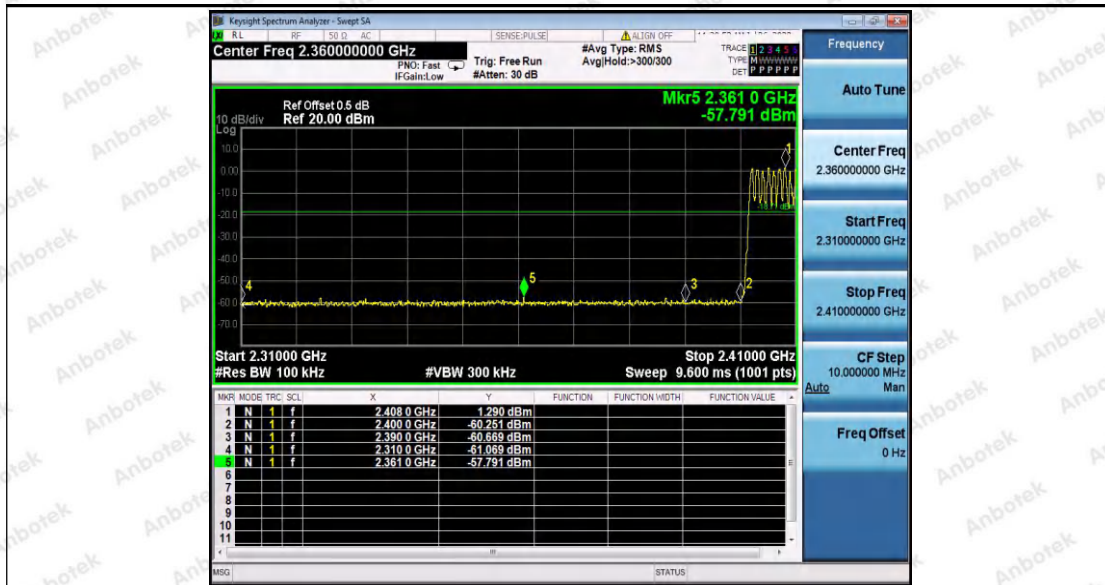
Appendix G: Band edge measurements

Test Result

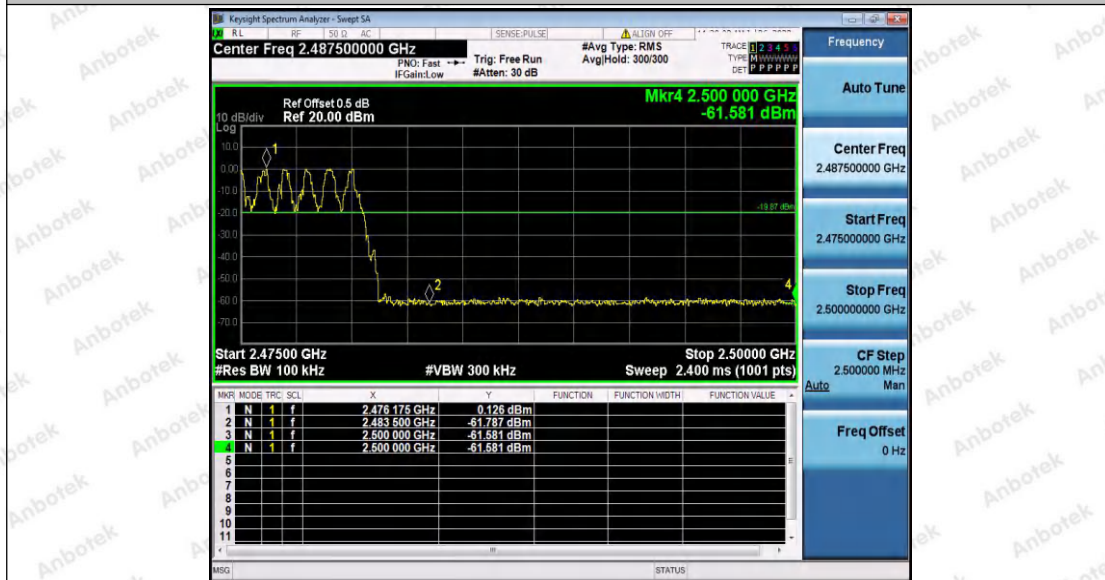
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.95	-55.75	≤-19.05	PASS
		High	2480	0.61	-57.64	≤-19.39	PASS
		Low	Hop	1.29	-57.79	≤-18.71	PASS
		High	Hop	0.13	-61.58	≤-19.87	PASS
2DH5	Ant1	Low	2402	0.32	-55.94	≤-19.68	PASS
		High	2480	0.18	-57.84	≤-19.82	PASS
		Low	Hop	-0.80	-57.28	≤-20.8	PASS
		High	Hop	-3.07	-59.89	≤-23.07	PASS
3DH5	Ant1	Low	2402	1.15	-55.61	≤-18.85	PASS
		High	2480	0.06	-56.91	≤-19.94	PASS
		Low	Hop	0.54	-56.74	≤-19.46	PASS
		High	Hop	-3.29	-60.29	≤-23.29	PASS

Test Graphs

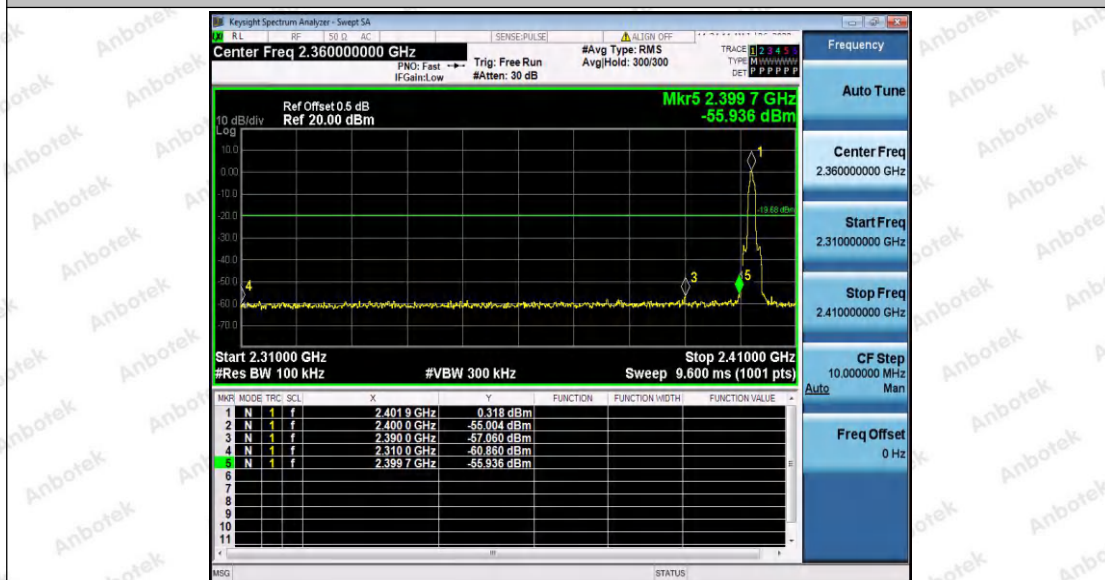




DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



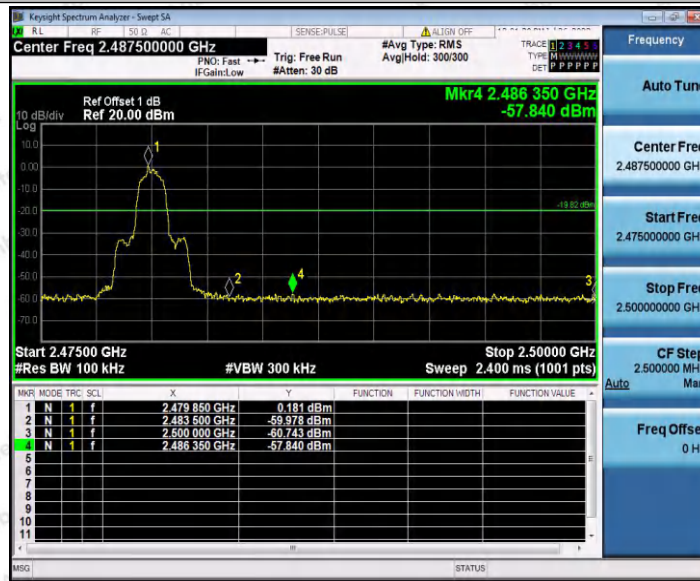
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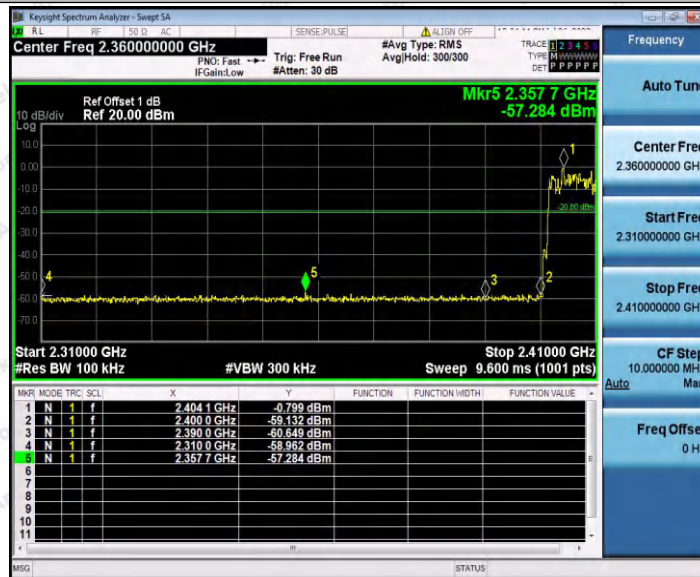
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



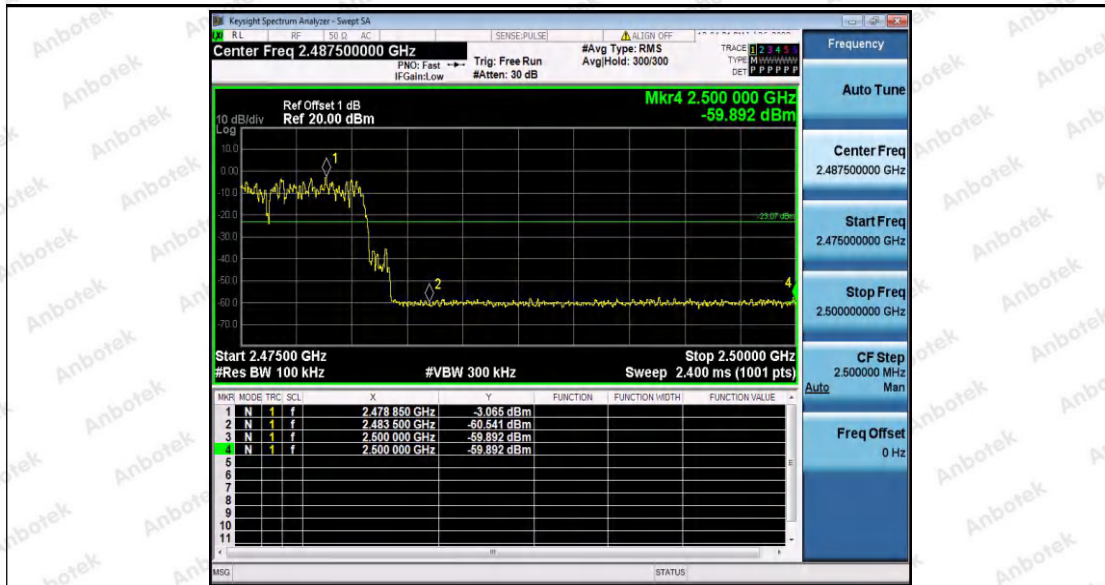
2DH5_Ant1_High_Hop

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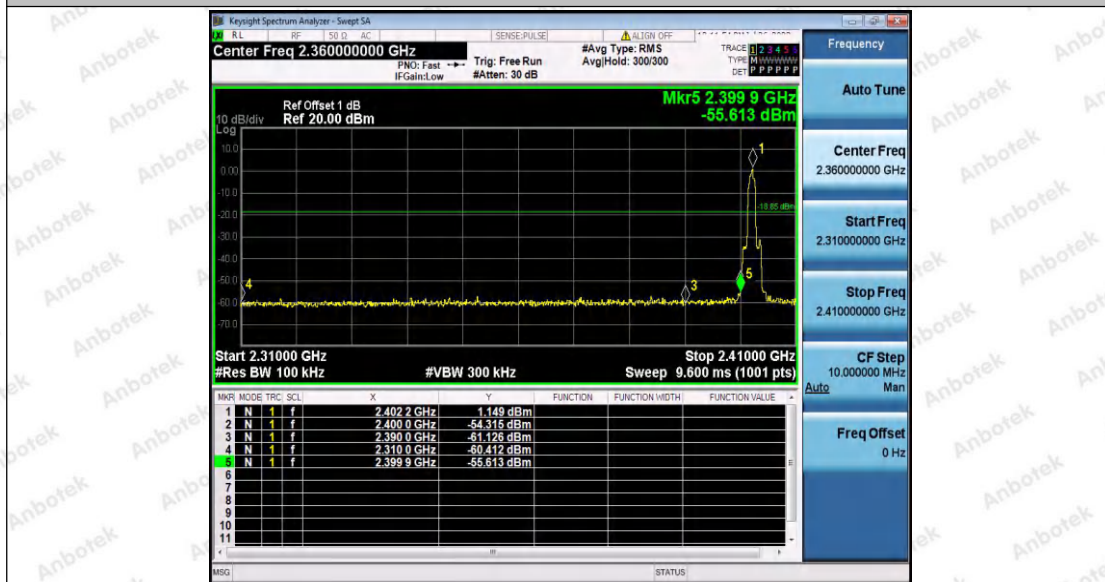
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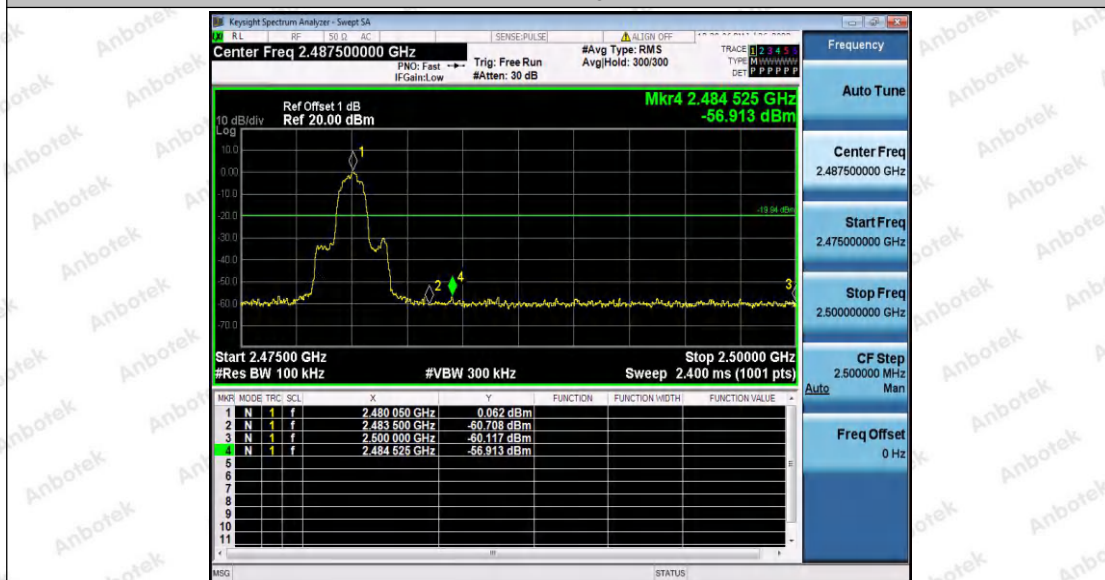
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



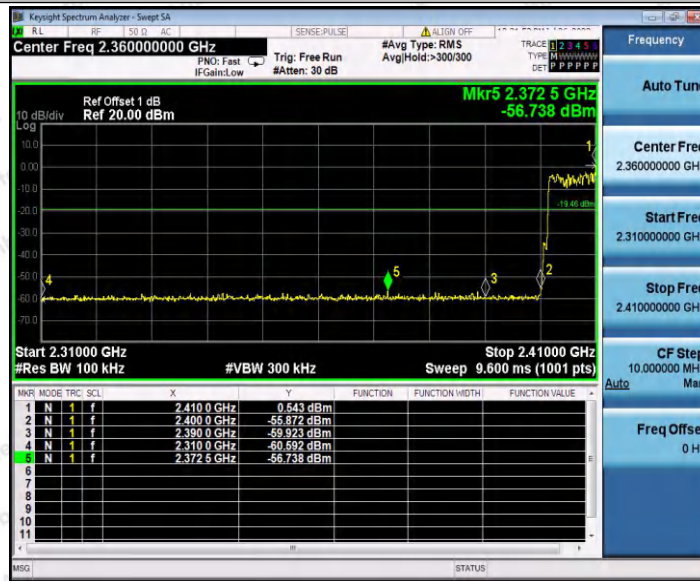
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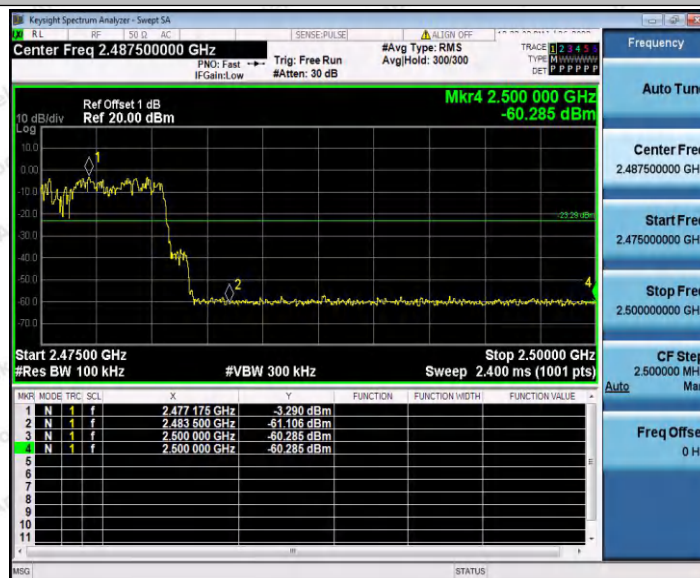
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3DH5_Ant1_Low_Hop



3DH5_Ant1_High_Hop



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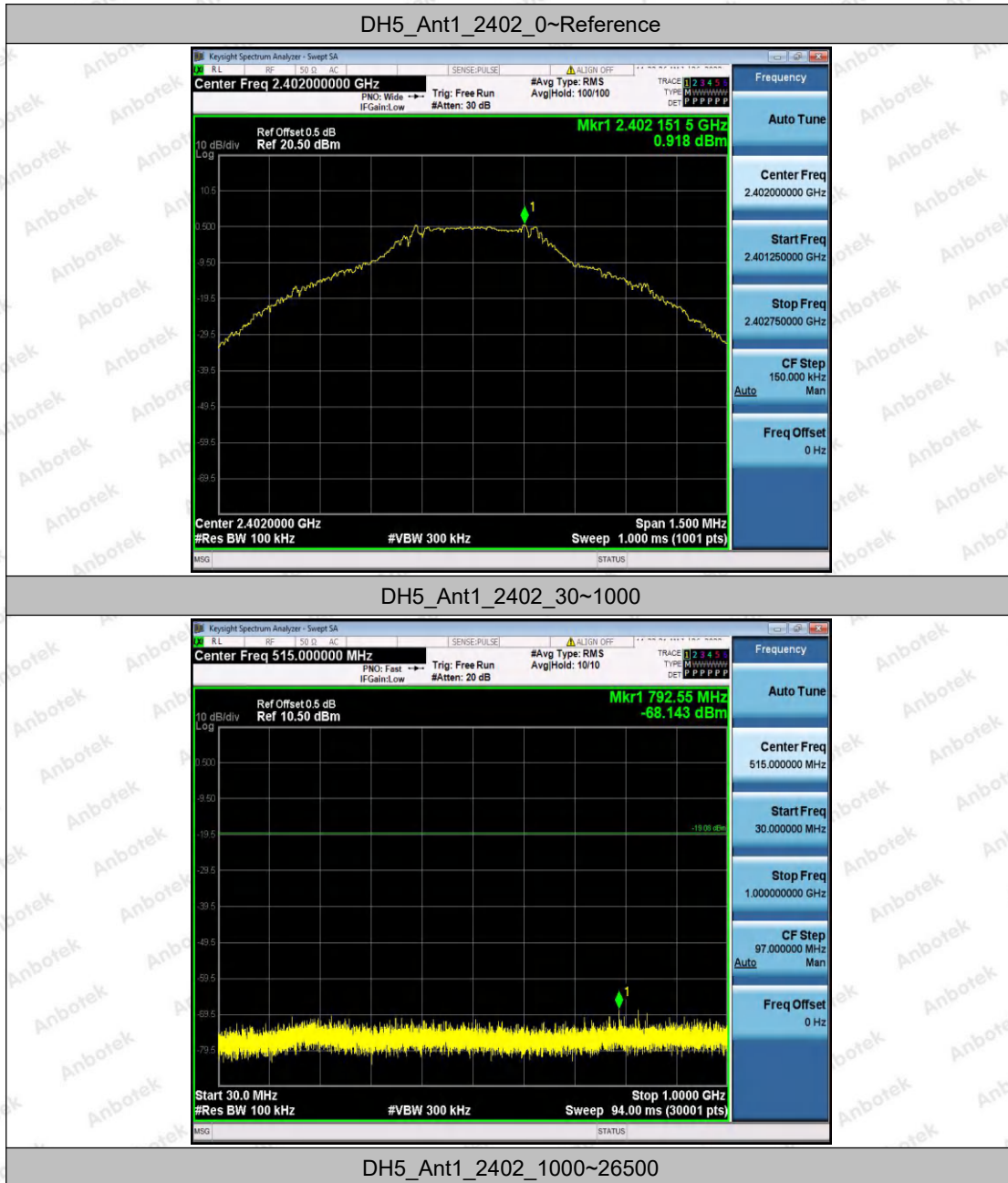
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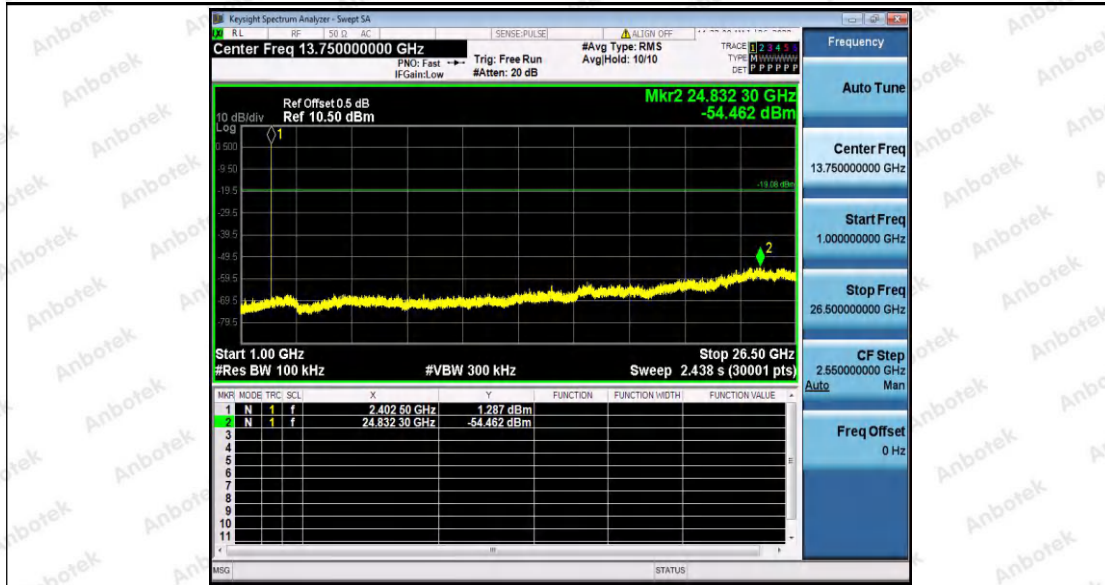
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.92	0.92	---	PASS
			30~1000	0.92	-68.14	≤-19.08	PASS
			1000~26500	0.92	-54.46	≤-19.08	PASS
		2441	Reference	1.22	1.22	---	PASS
			30~1000	1.22	-69.59	≤-18.78	PASS
			1000~26500	1.22	-53.58	≤-18.78	PASS
		2480	Reference	0.53	0.53	---	PASS
			30~1000	0.53	-69.13	≤-19.48	PASS
			1000~26500	0.53	-54.22	≤-19.48	PASS
2DH5	Ant1	2402	Reference	-0.77	-0.77	---	PASS
			30~1000	-0.77	-69.18	≤-20.77	PASS
			1000~26500	-0.77	-53.24	≤-20.77	PASS
		2441	Reference	0.84	0.84	---	PASS
			30~1000	0.84	-69.09	≤-19.16	PASS
			1000~26500	0.84	-53.6	≤-19.16	PASS
		2480	Reference	-0.01	-0.01	---	PASS
			30~1000	-0.01	-69.69	≤-20.01	PASS
			1000~26500	-0.01	-53.33	≤-20.01	PASS
3DH5	Ant1	2402	Reference	0.92	0.92	---	PASS
			30~1000	0.92	-69.12	≤-19.08	PASS
			1000~26500	0.92	-53.41	≤-19.08	PASS
		2441	Reference	0.62	0.62	---	PASS
			30~1000	0.62	-69.32	≤-19.38	PASS
			1000~26500	0.62	-52.84	≤-19.38	PASS
		2480	Reference	0.15	0.15	---	PASS
			30~1000	0.15	-68.68	≤-19.85	PASS
			1000~26500	0.15	-53.27	≤-19.85	PASS

Test Graphs

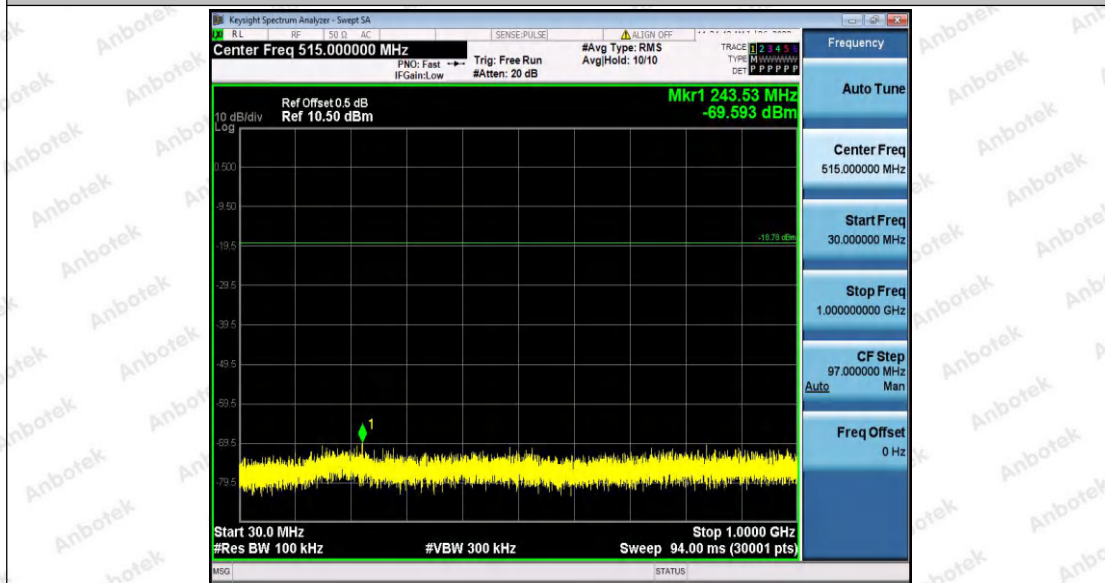




DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



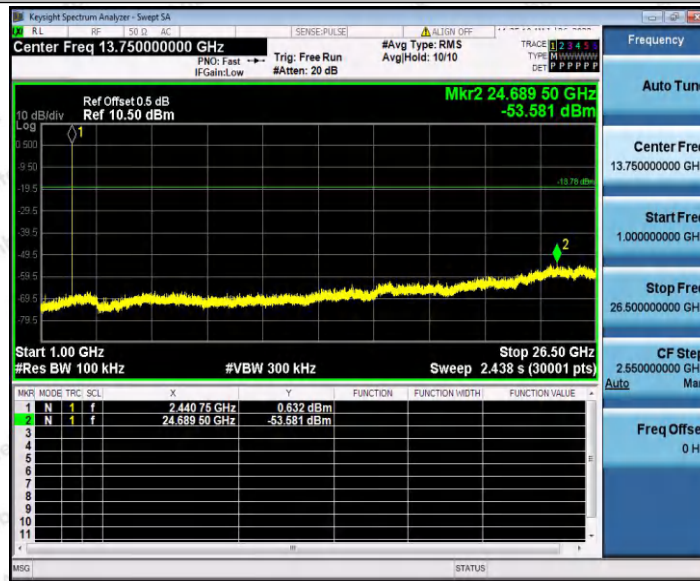
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DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



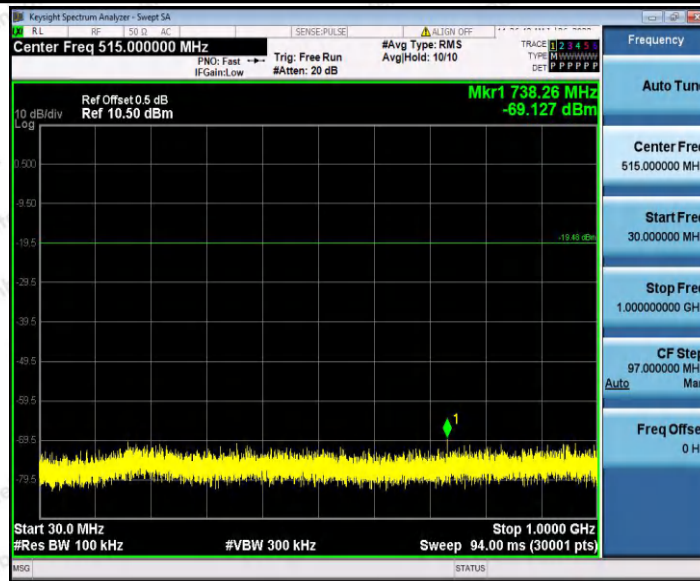
DH5_Ant1_2480_30~1000

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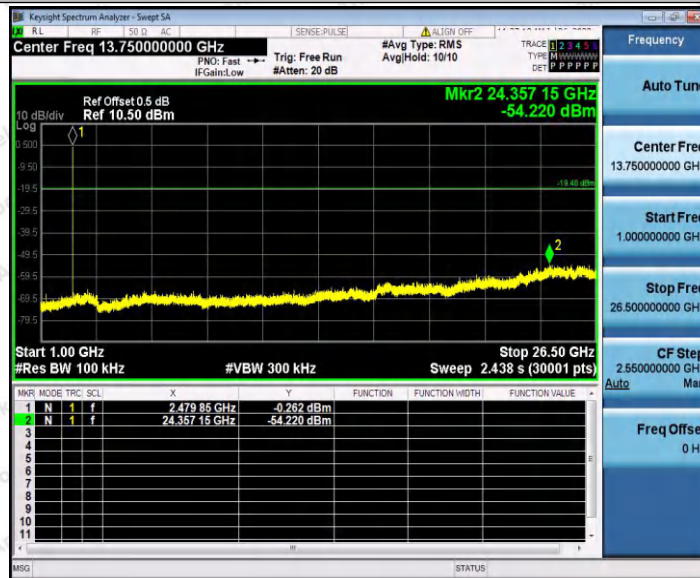
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DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

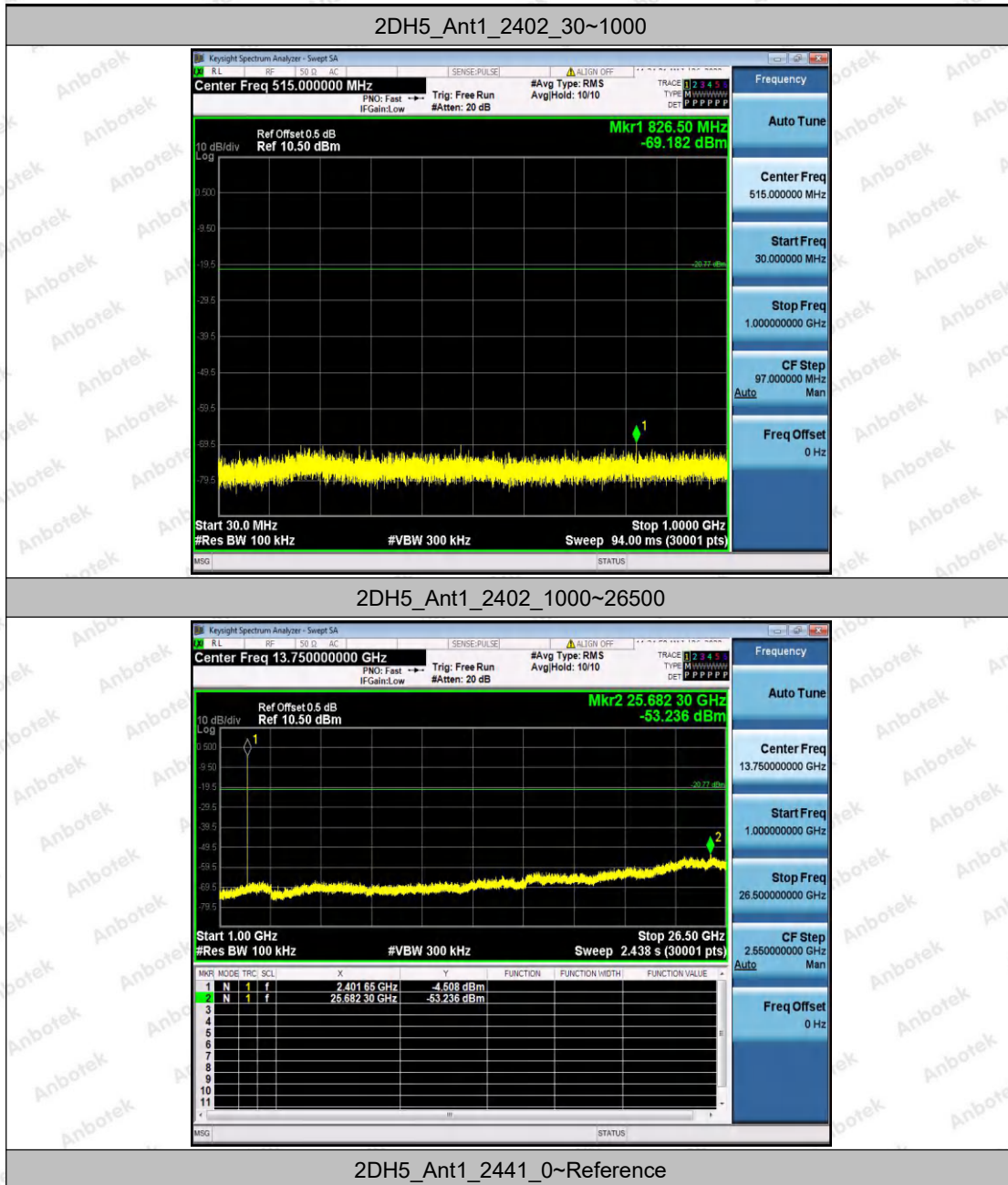


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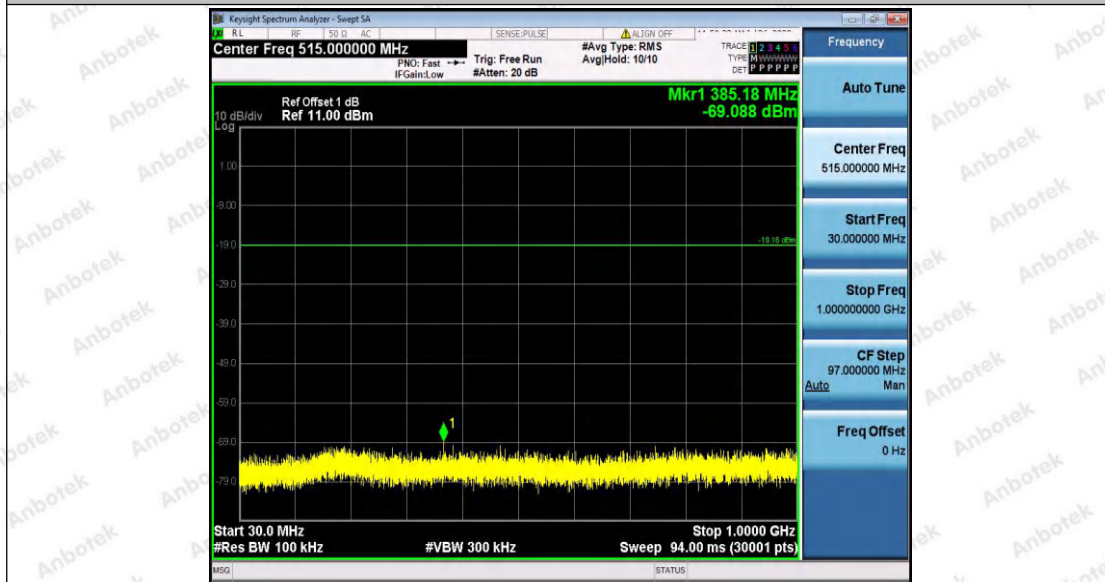
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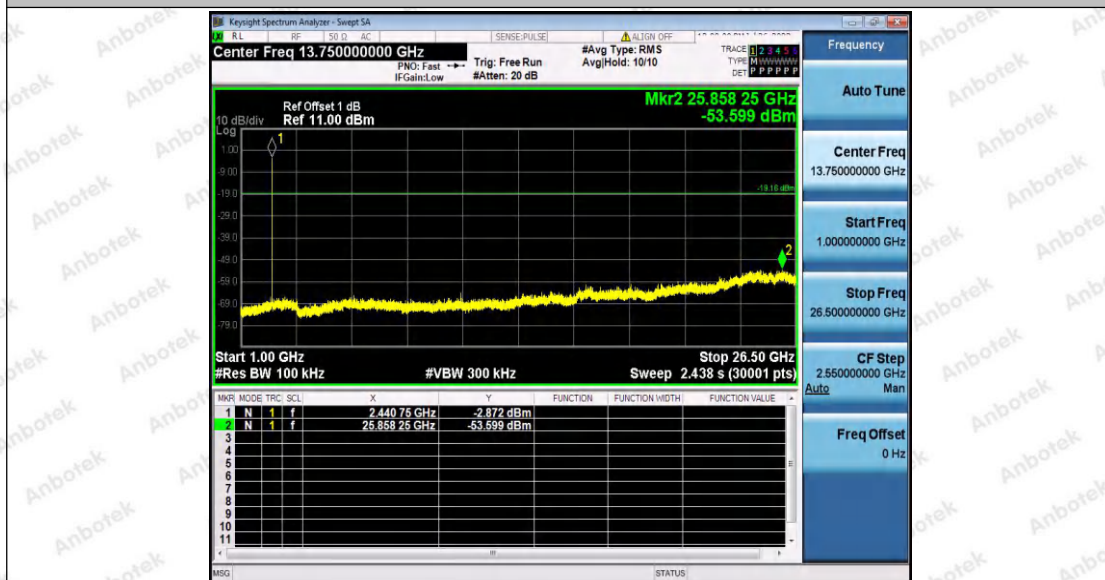
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

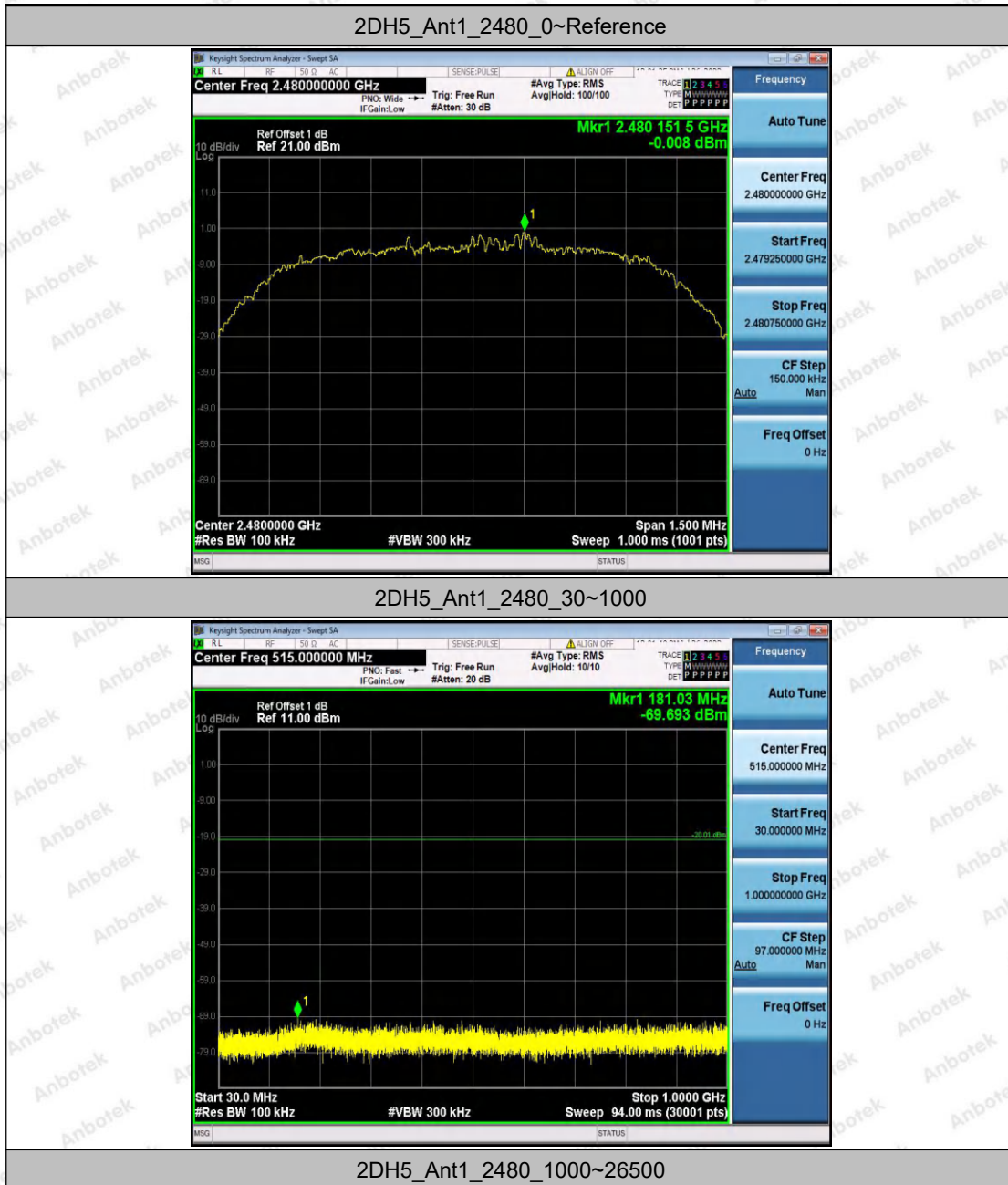


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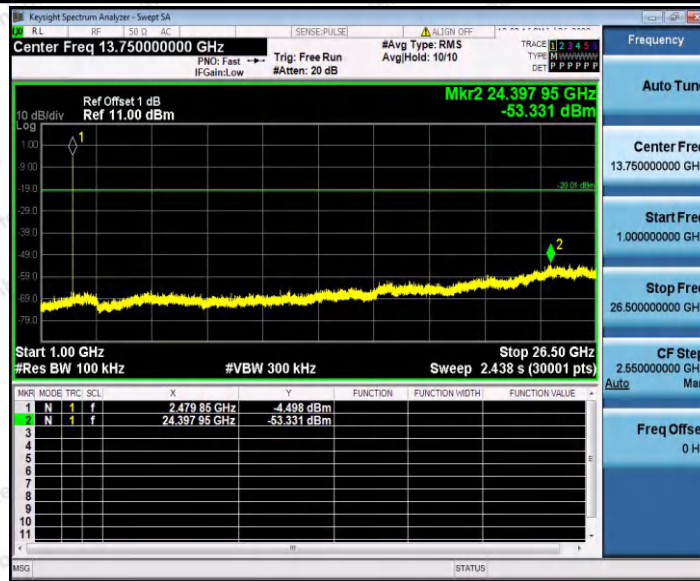
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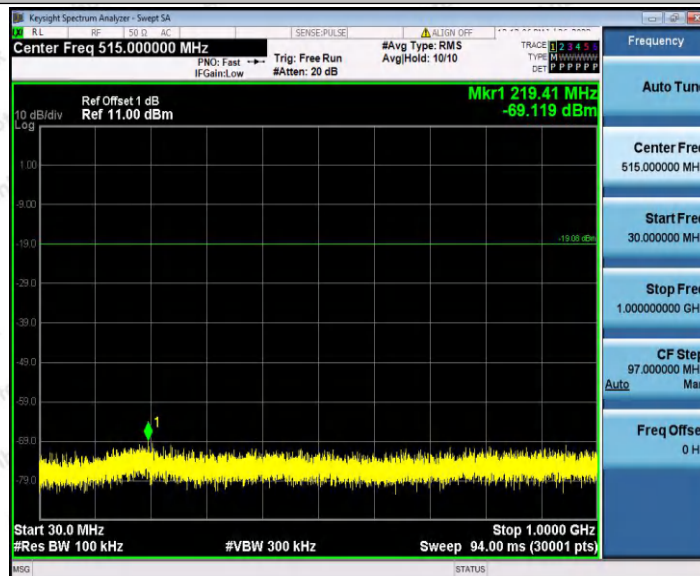
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3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



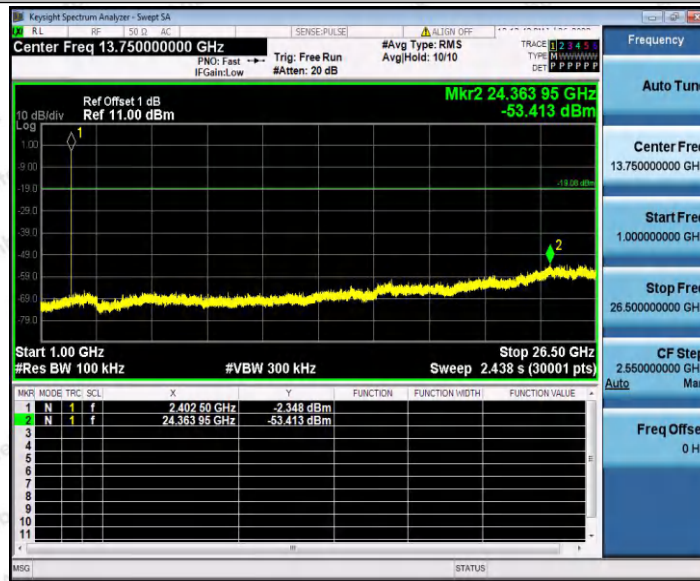
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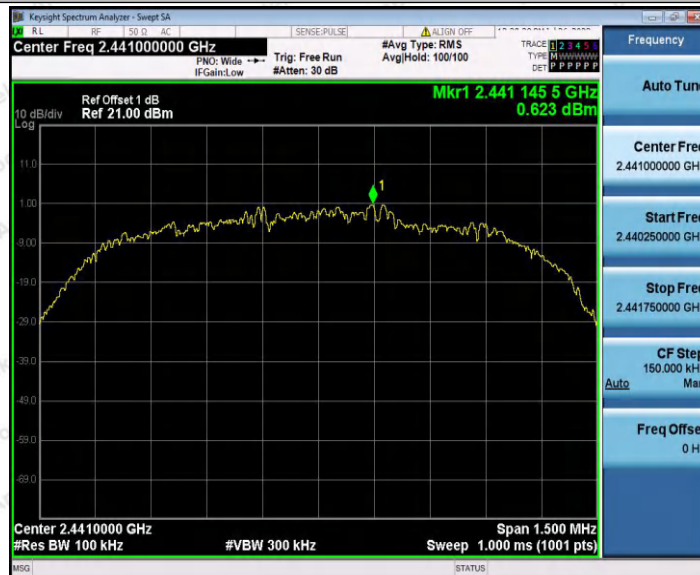
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference



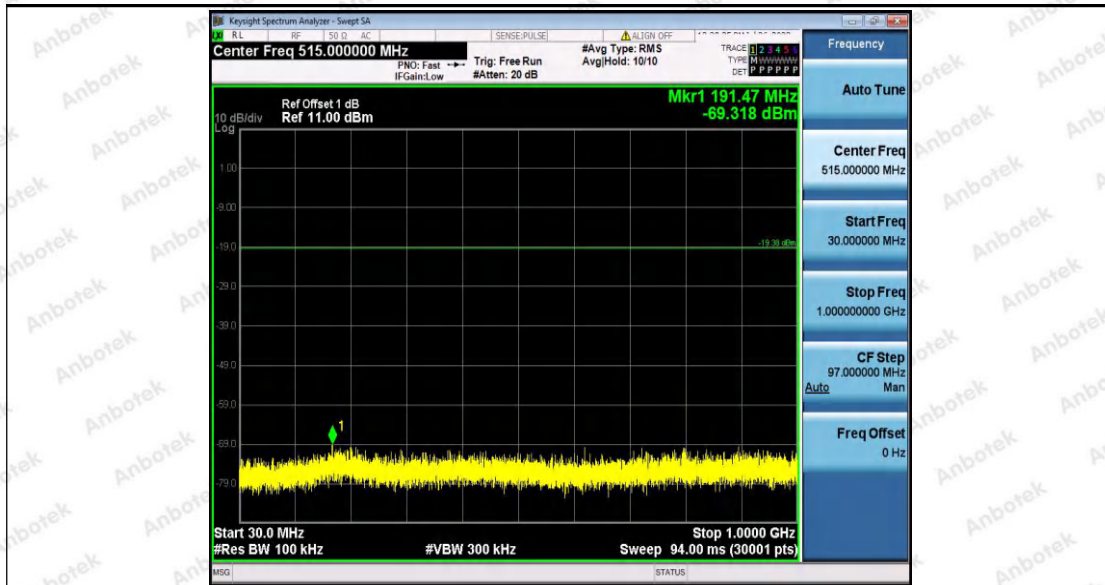
3DH5_Ant1_2441_30~1000

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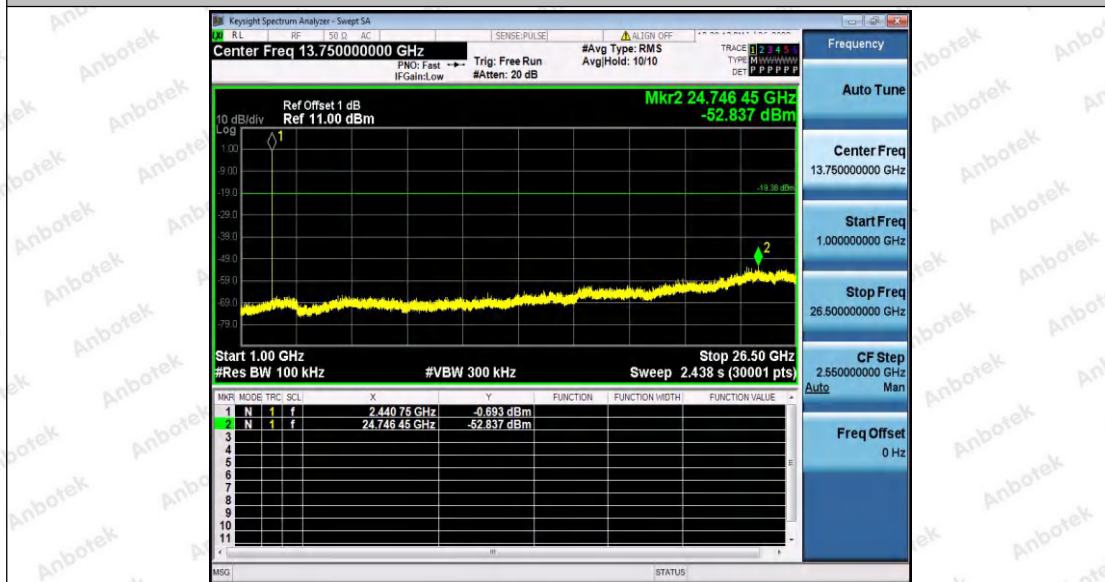
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

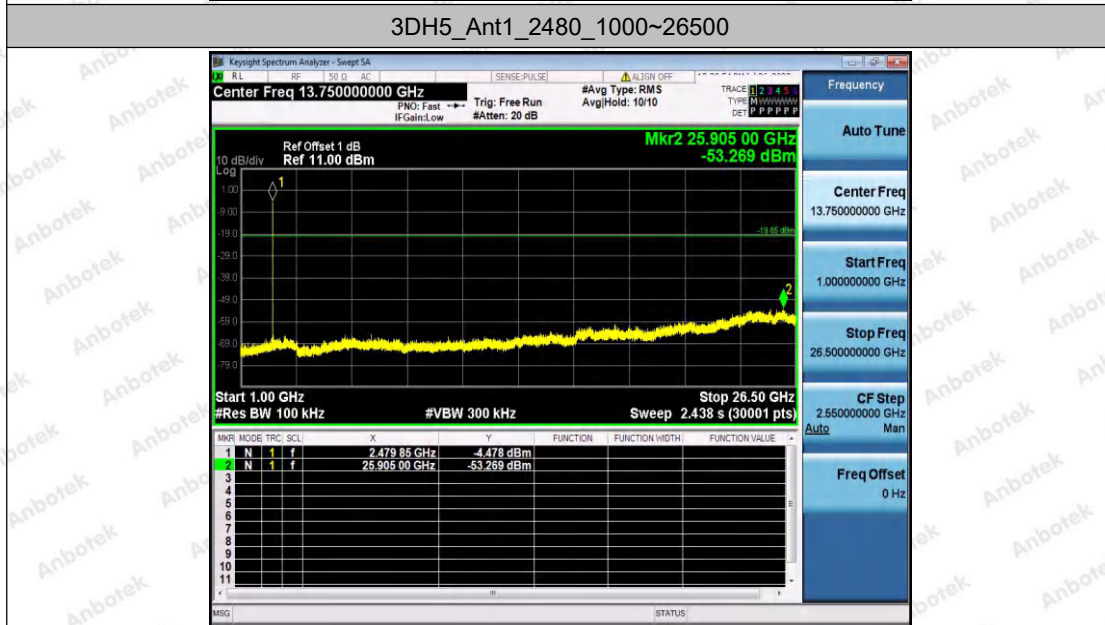
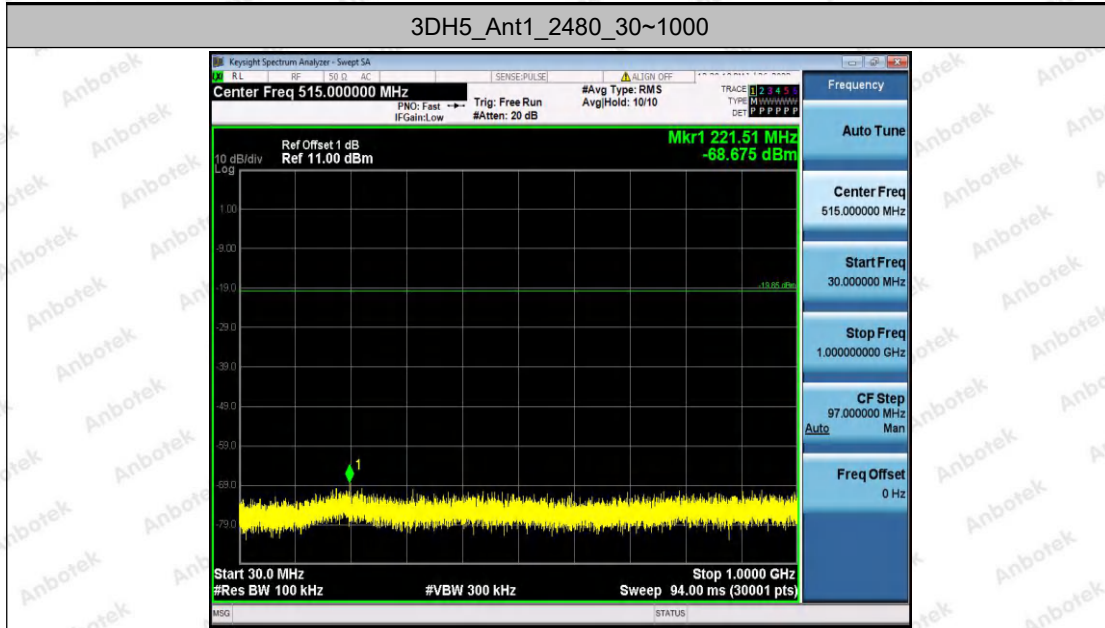


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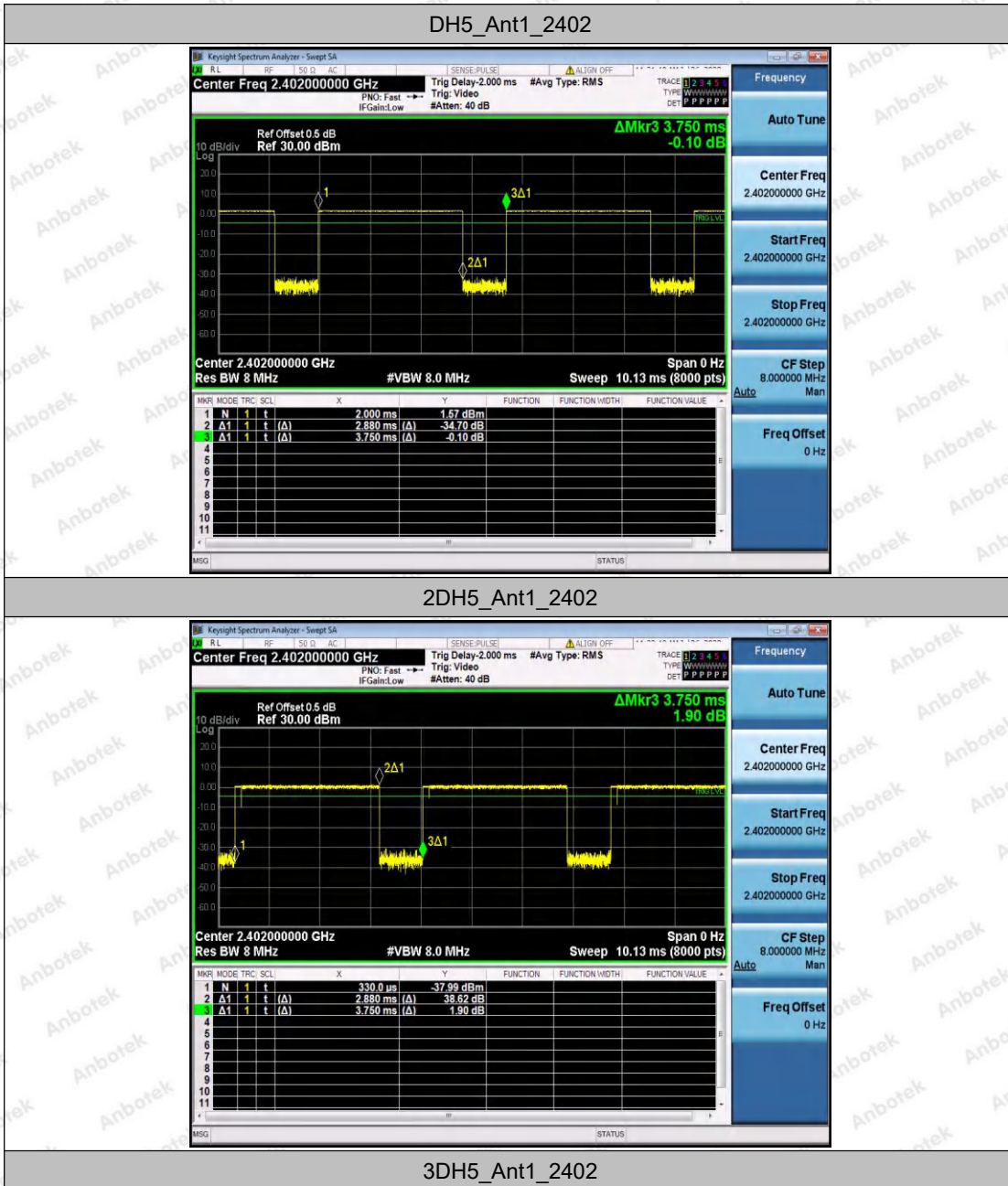
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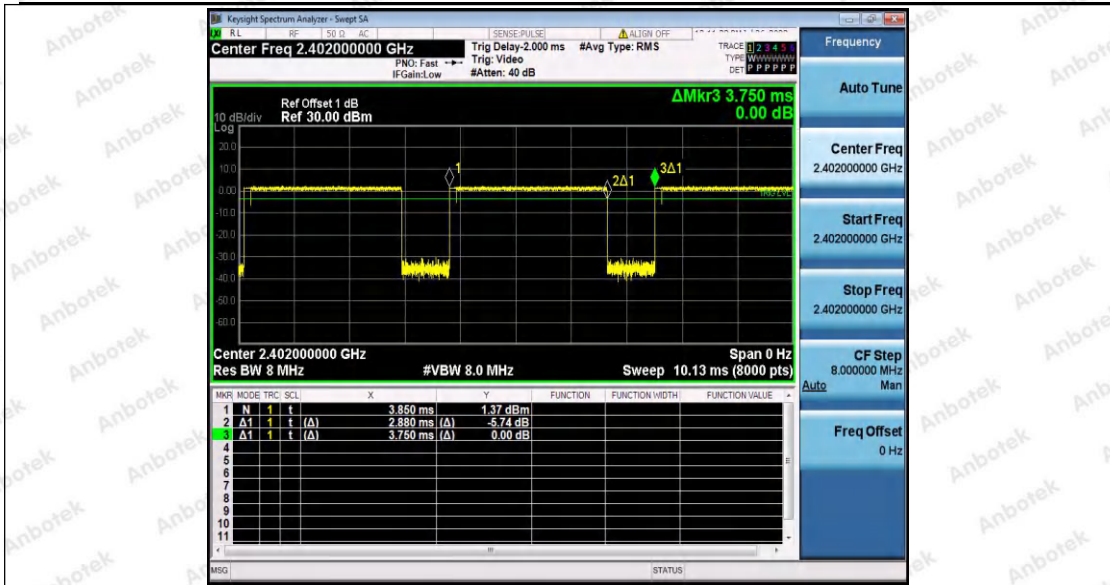
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS

Test Graphs





---End---