

Appendix Test Data

Project No.:	18220WC10147301	Test Date:	2021.7.12
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3C°	Relative Humidity:	57 %
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	0.945	2401.541	2402.486	---	PASS
		2441	0.939	2440.535	2441.474	---	PASS
		2480	0.942	2479.535	2480.477	---	PASS
2DH5	Ant1	2402	1.254	2401.364	2402.618	---	PASS
		2441	1.260	2440.367	2441.627	---	PASS
		2480	1.203	2479.397	2480.600	---	PASS
3DH5	Ant1	2402	1.179	2401.421	2402.600	---	PASS
		2441	1.188	2440.409	2441.597	---	PASS
		2480	1.272	2479.352	2480.624	---	PASS

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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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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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3DH5_Ant1_2480



Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.90126	2401.549	2402.451	---	PASS
		2441	0.88454	2440.554	2441.439	---	PASS
		2480	0.88101	2479.553	2480.434	---	PASS
2DH5	Ant1	2402	1.1637	2401.411	2402.575	---	PASS
		2441	1.1590	2440.414	2441.573	---	PASS
		2480	1.1632	2479.412	2480.575	---	PASS
3DH5	Ant1	2402	1.1602	2401.415	2402.575	---	PASS
		2441	1.1513	2440.422	2441.573	---	PASS
		2480	1.1594	2479.416	2480.576	---	PASS

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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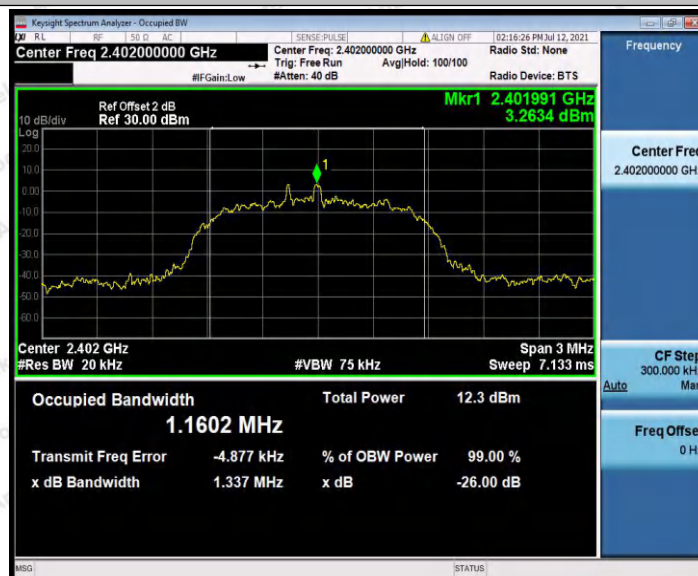
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2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

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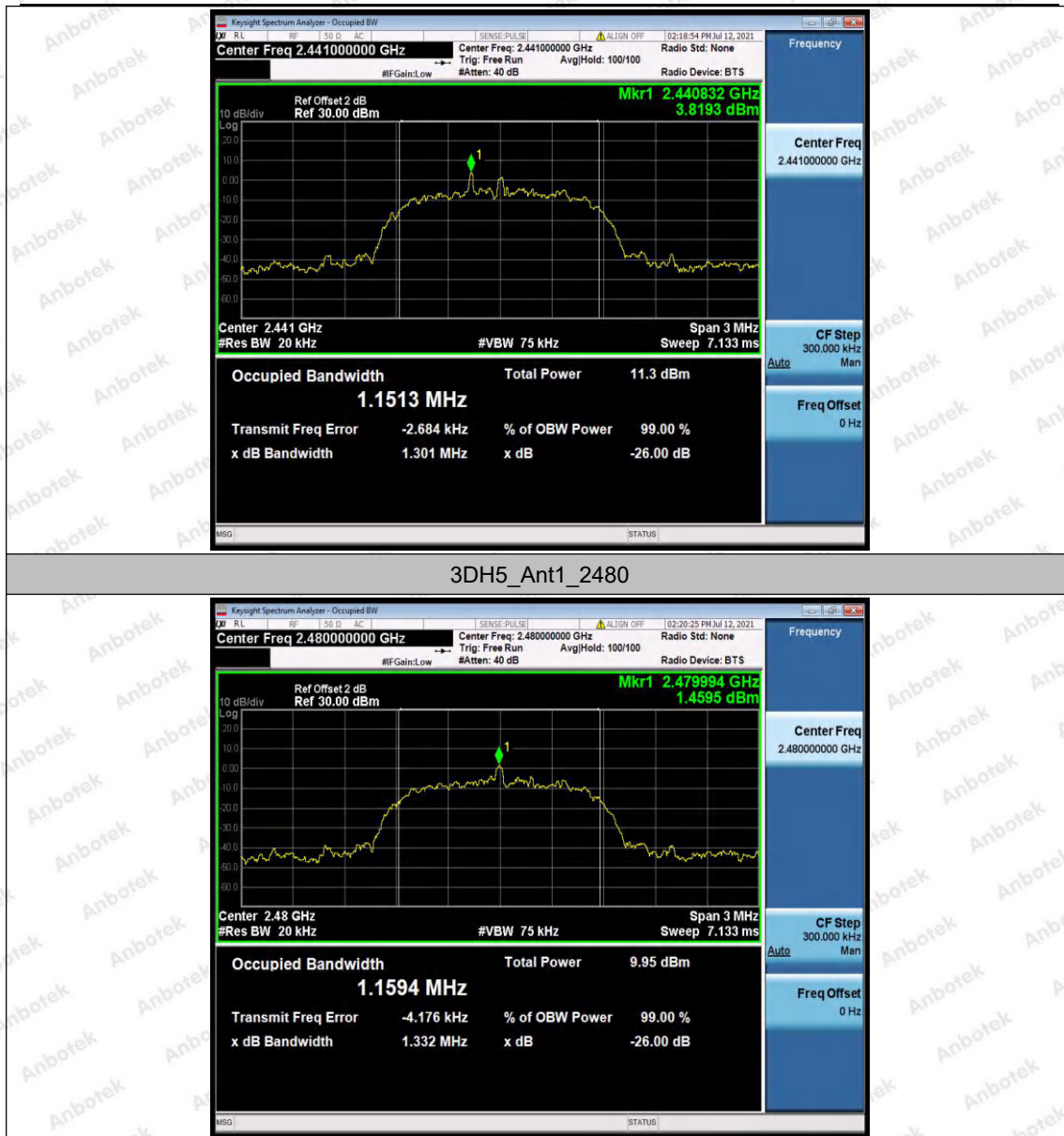
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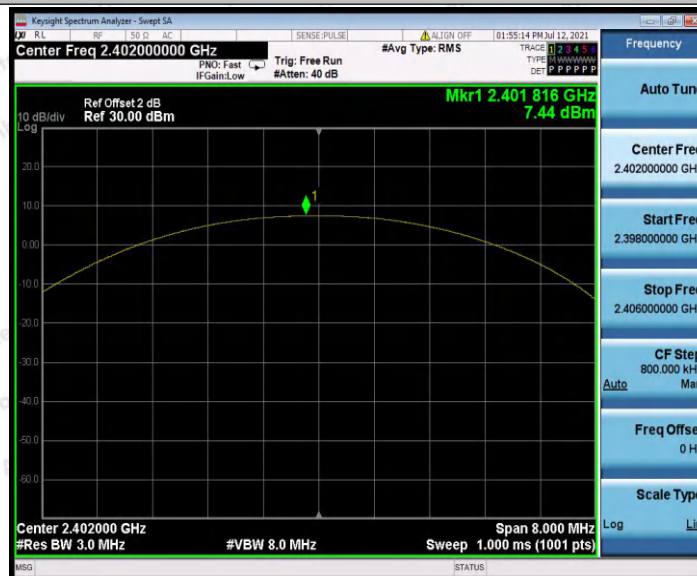
Appendix C: Maximum conducted output power

Test Result

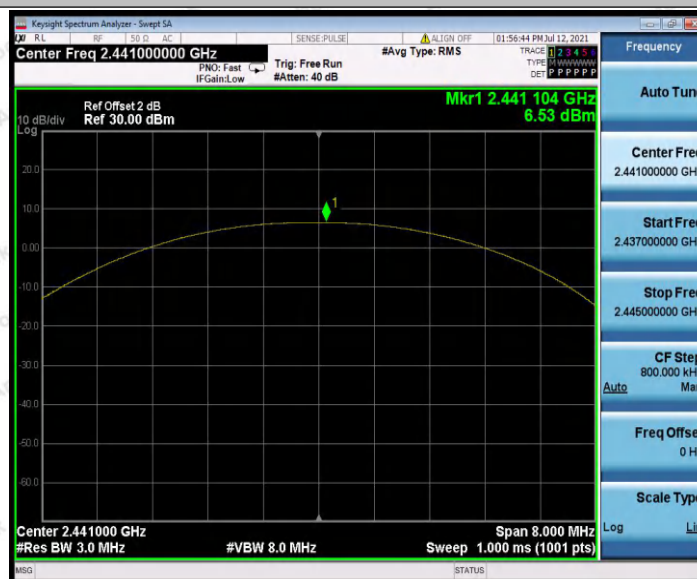
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	7.44	<=20.97	PASS
		2441	6.53	<=20.97	PASS
		2480	5.48	<=20.97	PASS
2DH5	Ant1	2402	7.41	<=20.97	PASS
		2441	6.52	<=20.97	PASS
		2480	5.5	<=20.97	PASS
3DH5	Ant1	2402	7.63	<=20.97	PASS
		2441	6.73	<=20.97	PASS
		2480	5.69	<=20.97	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



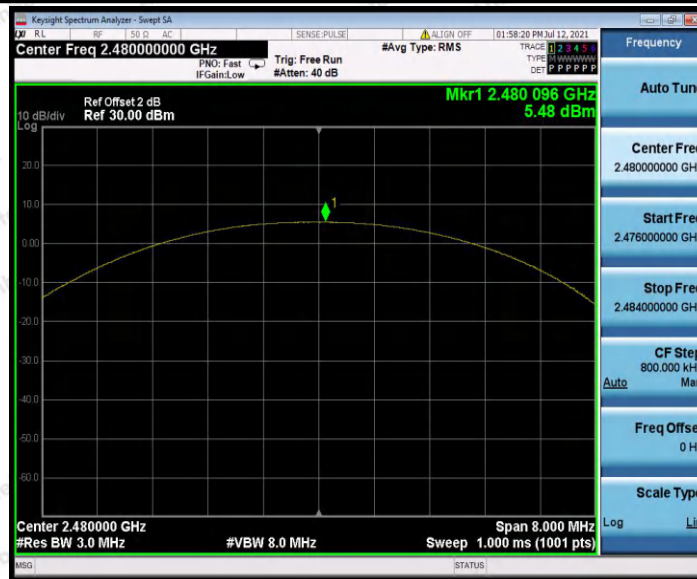
DH5_Ant1_2480

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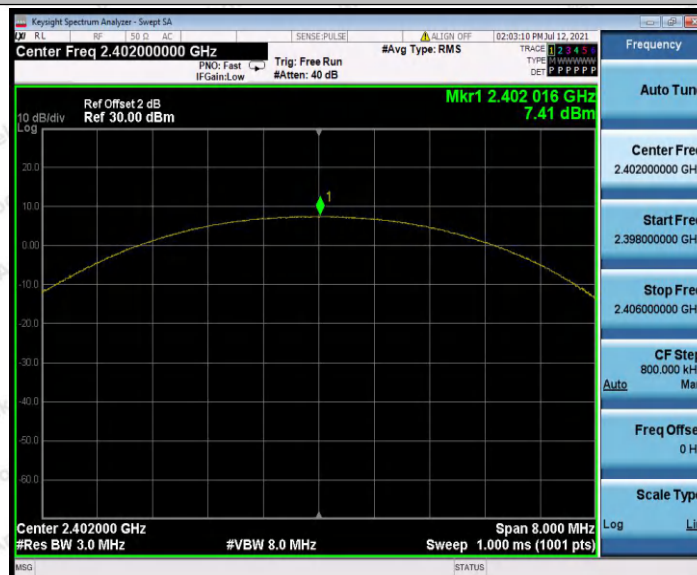
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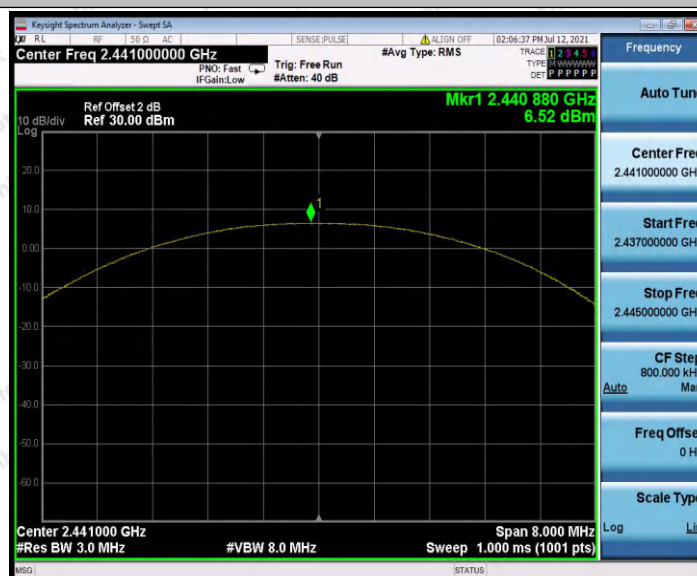
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2DH5_Ant1_2402



2DH5_Ant1_2441



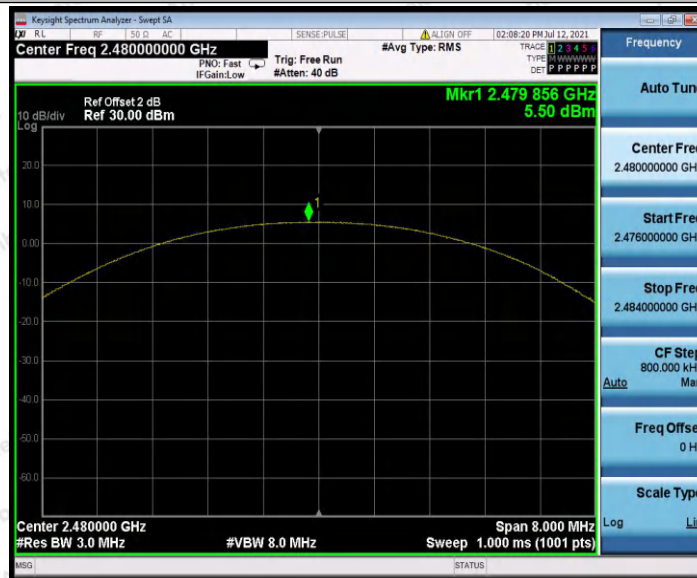
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2DH5_Ant1_2480



3DH5_Ant1_2402

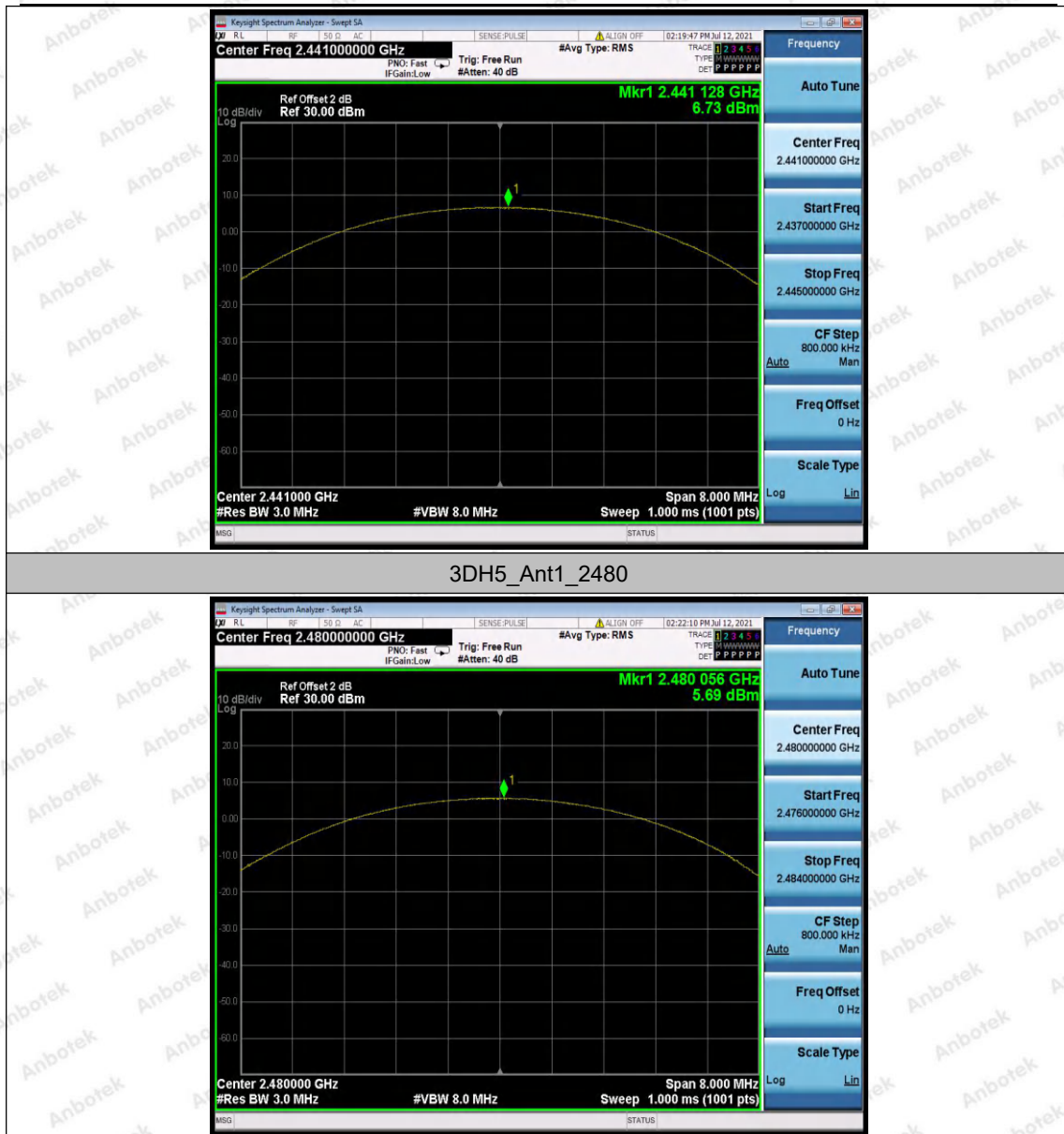


3DH5_Ant1_2441

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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	Hop	1.014	≥ -0.945	PASS
2DH5	Ant1	Hop	1.004	≥ -0.840	PASS
3DH5	Ant1	Hop	1.014	≥ -0.848	PASS

Test Graphs





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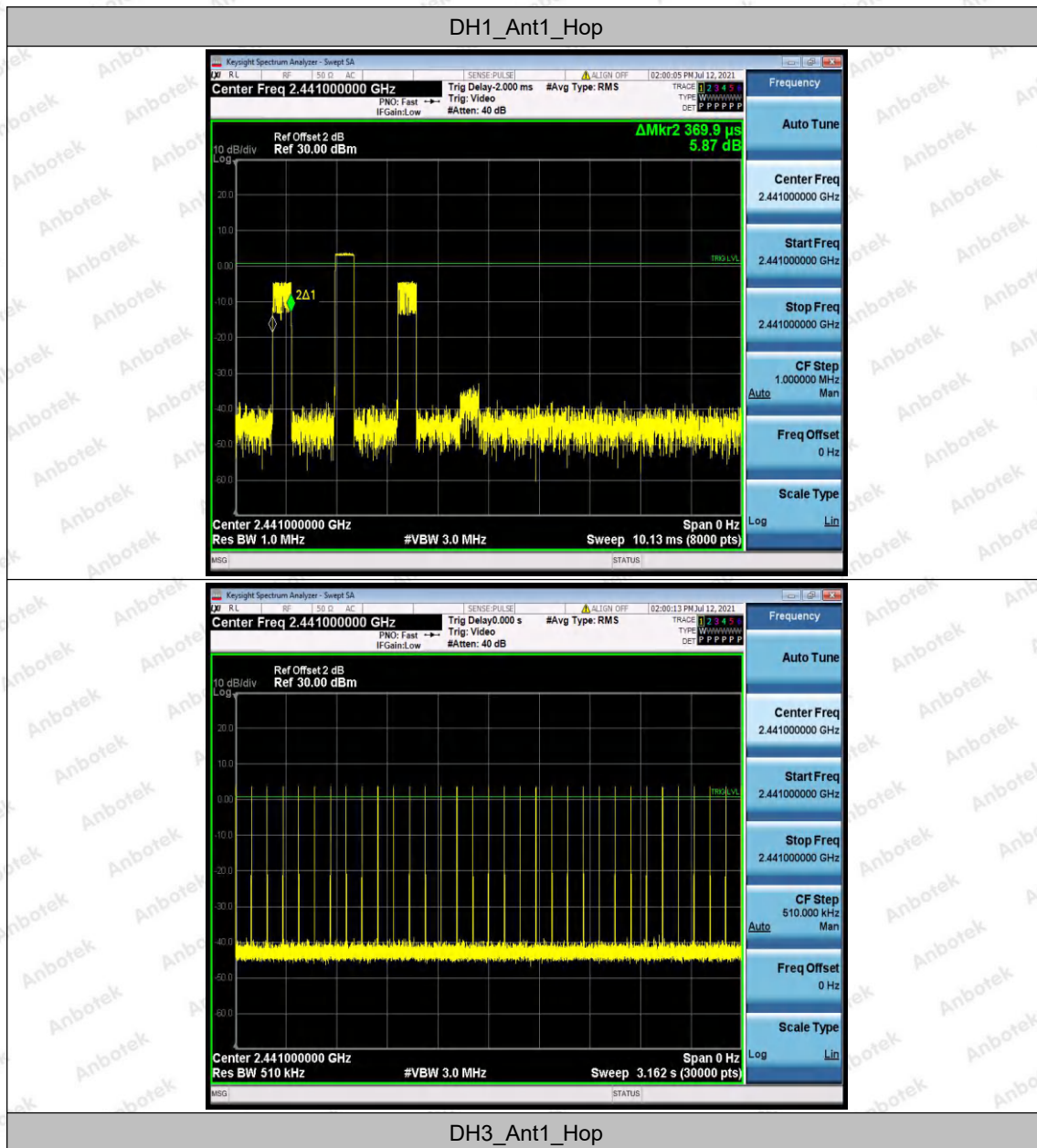
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Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	330	0.122	<=0.4	PASS
DH3	Ant1	Hop	1.62	170	0.275	<=0.4	PASS
DH5	Ant1	Hop	2.87	110	0.315	<=0.4	PASS
2DH1	Ant1	Hop	0.38	330	0.125	<=0.4	PASS
2DH3	Ant1	Hop	1.63	160	0.261	<=0.4	PASS
2DH5	Ant1	Hop	2.88	110	0.317	<=0.4	PASS
3DH1	Ant1	Hop	0.38	330	0.125	<=0.4	PASS
3DH3	Ant1	Hop	1.63	170	0.277	<=0.4	PASS
3DH5	Ant1	Hop	2.88	110	0.317	<=0.4	PASS

Test Graphs



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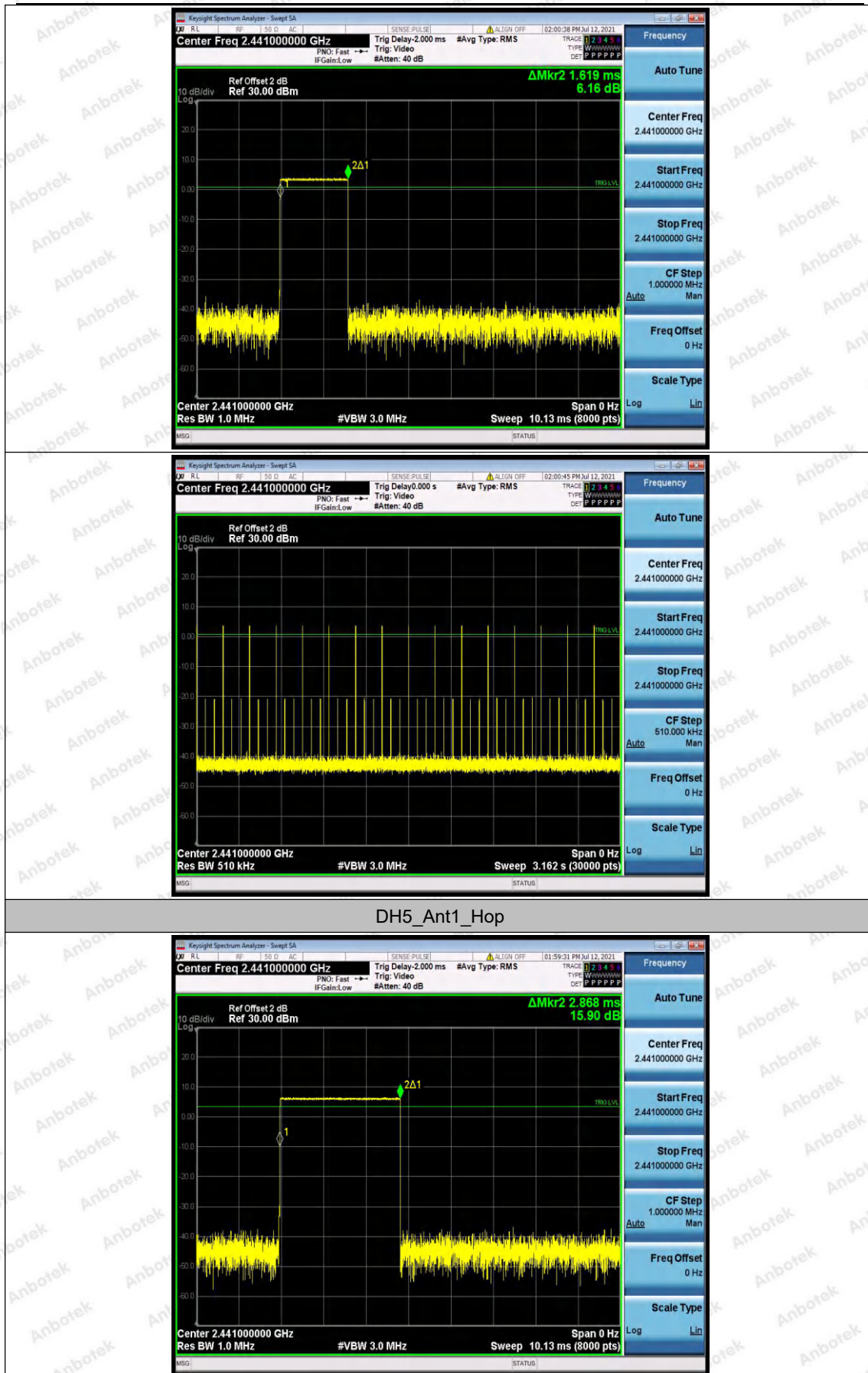
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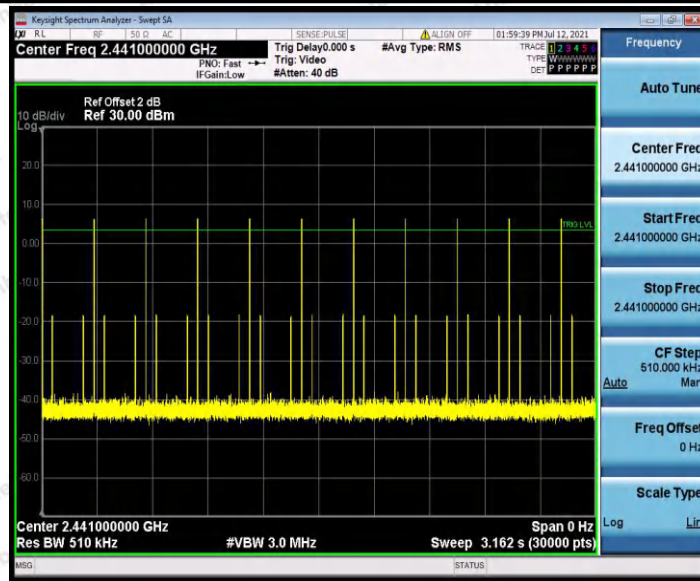
DH5_Ant1_Hop

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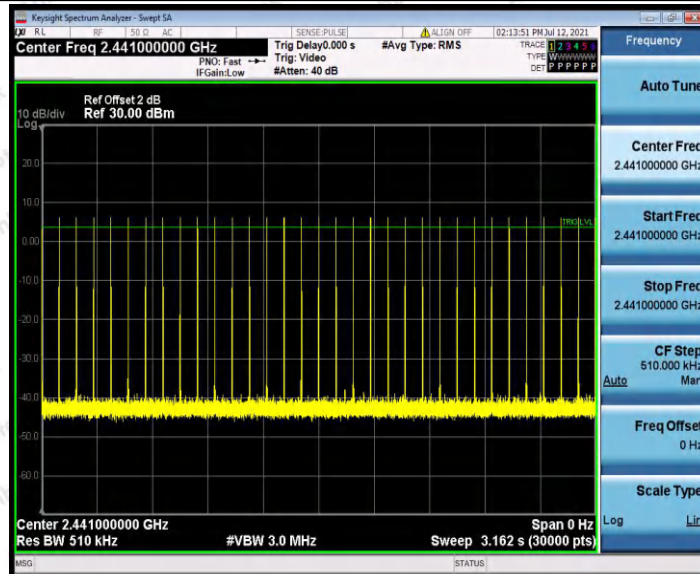
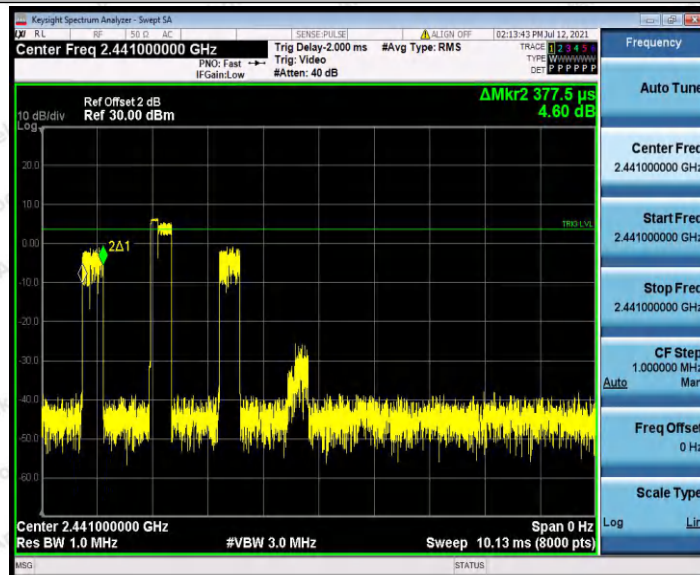
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2DH1_Ant1_Hop



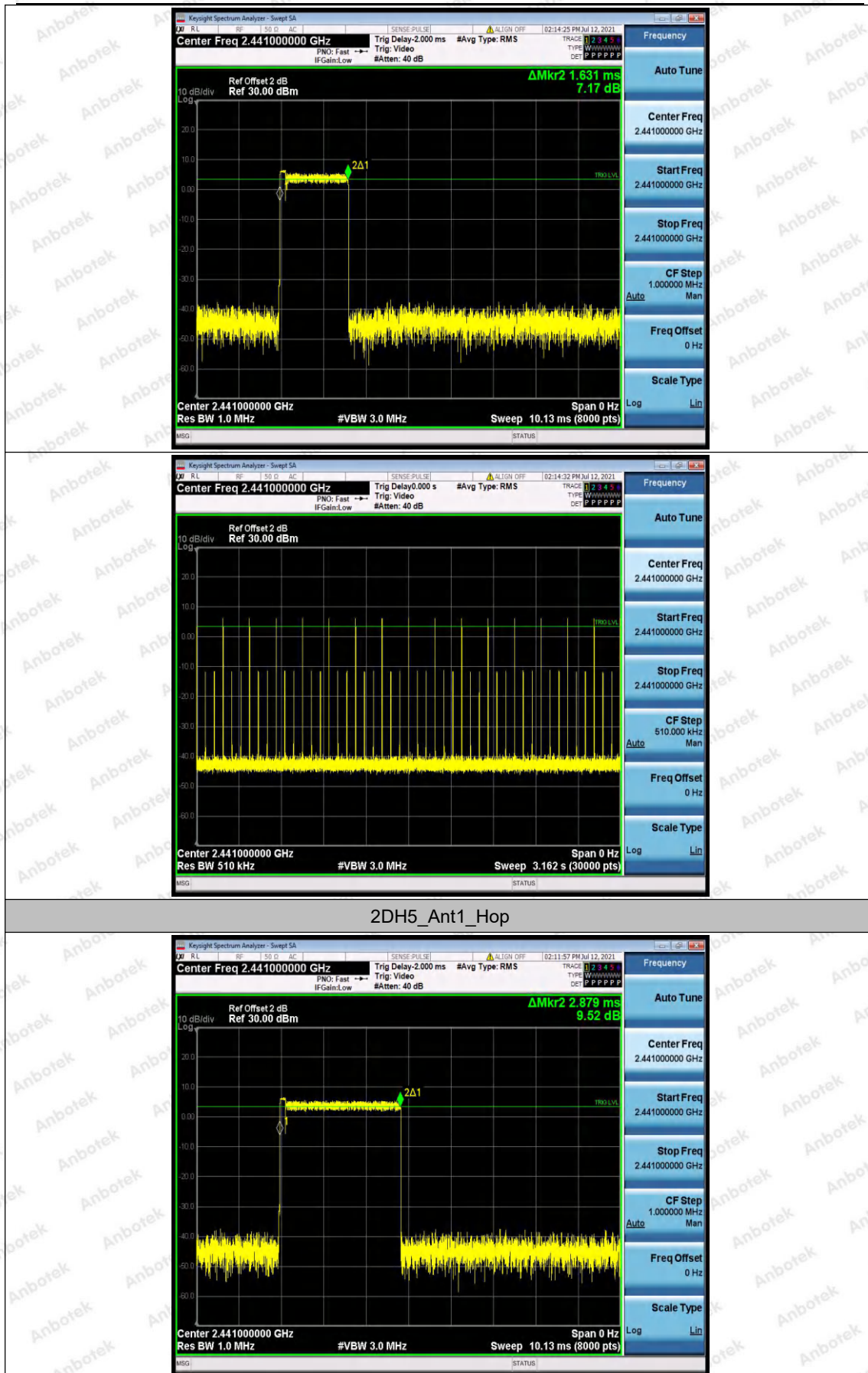
2DH3_Ant1_Hop

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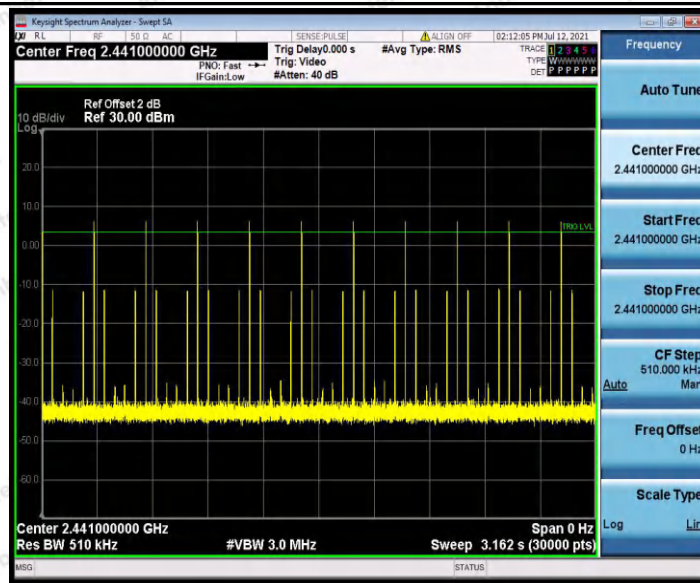
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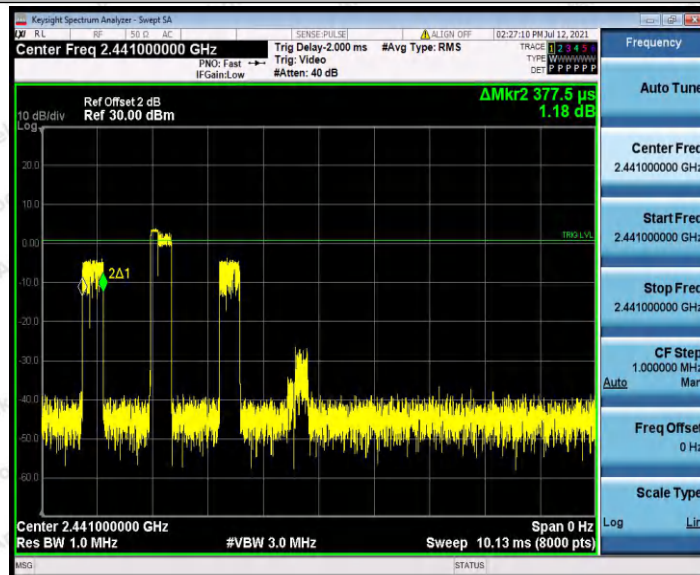
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3DH1_Ant1_Hop



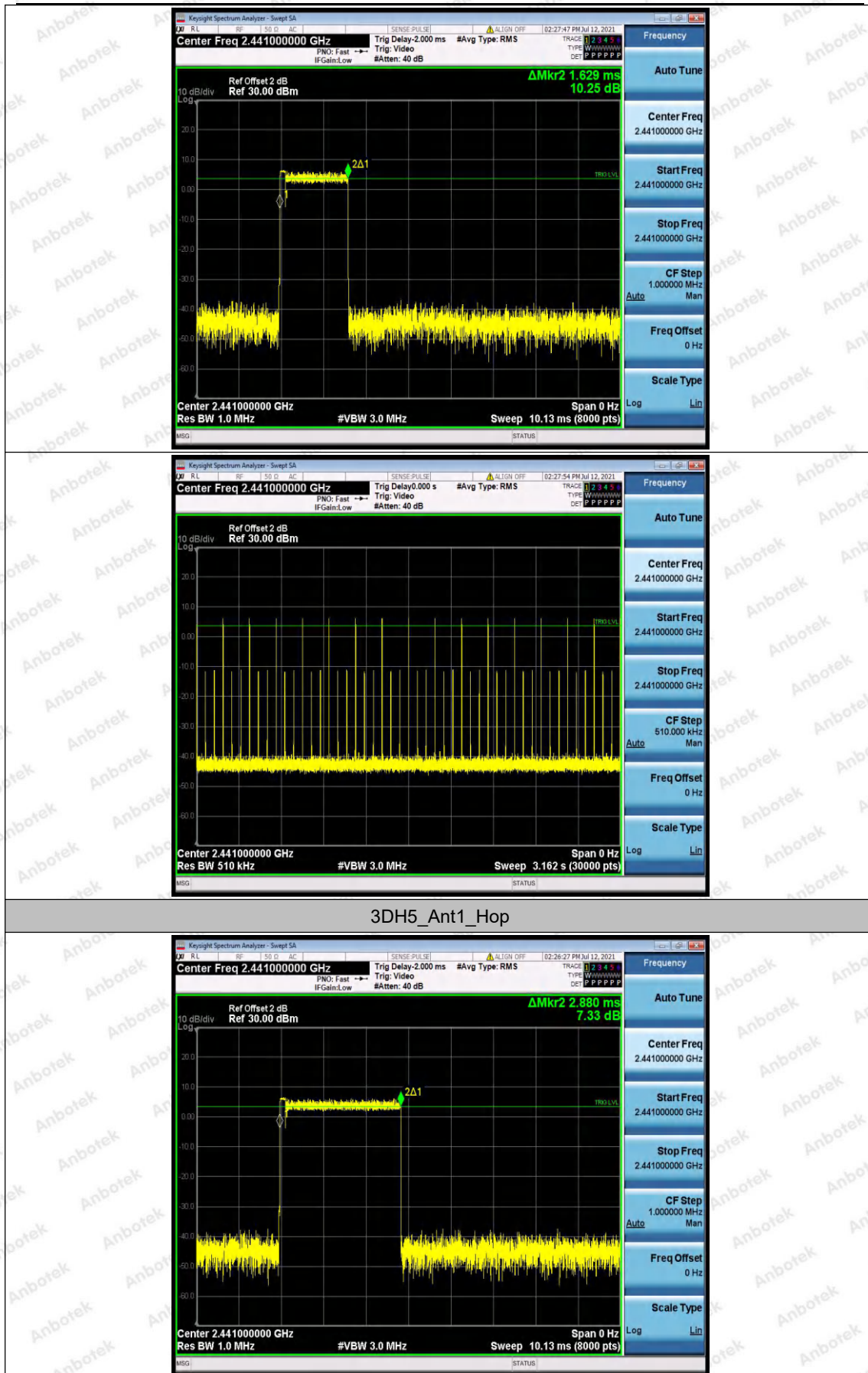
3DH3_Ant1_Hop

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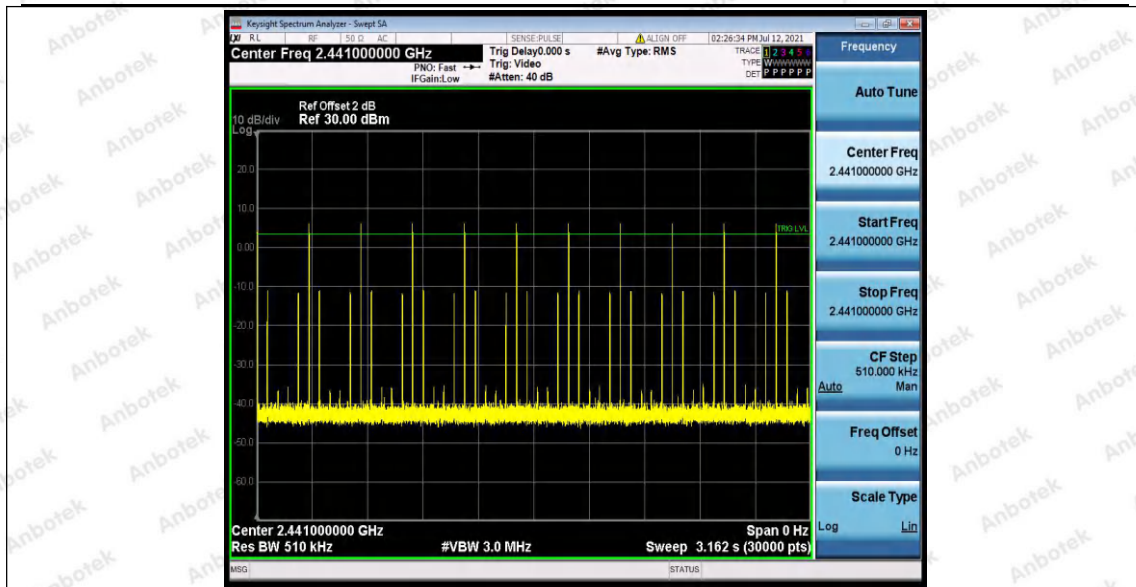


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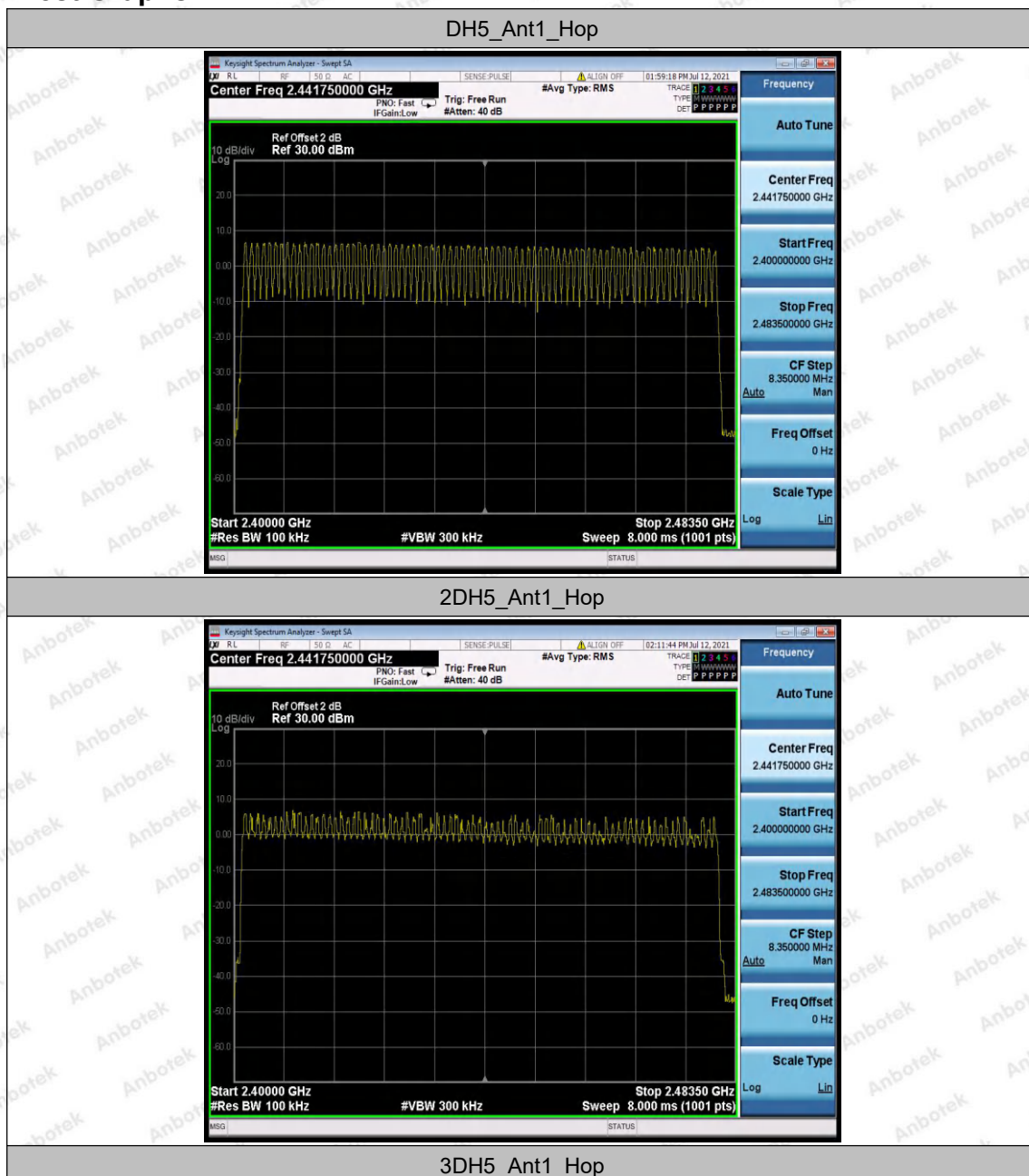
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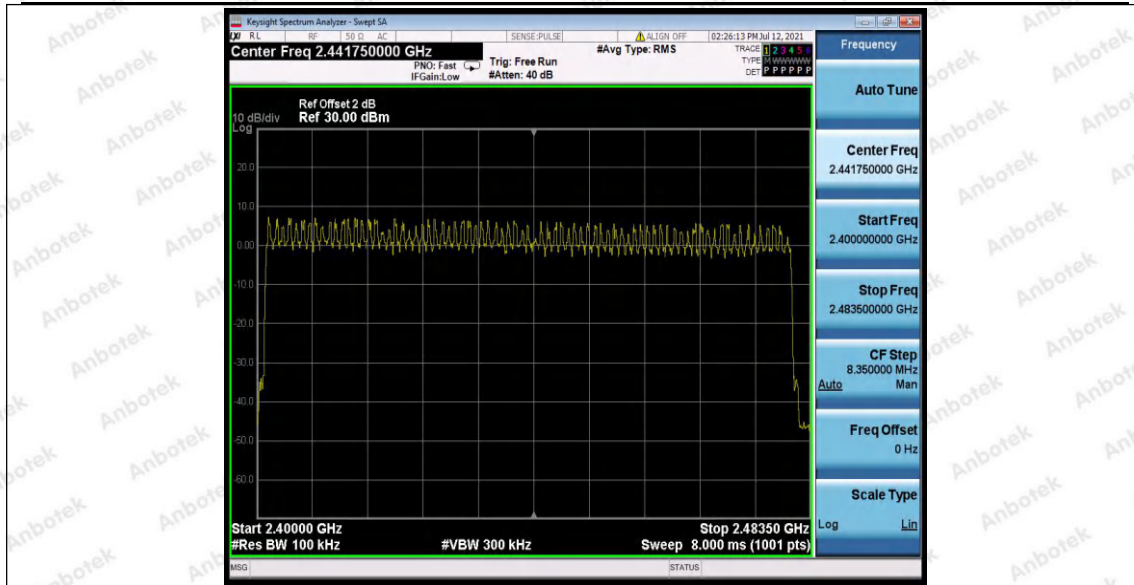
Appendix F: Number of hopping channels

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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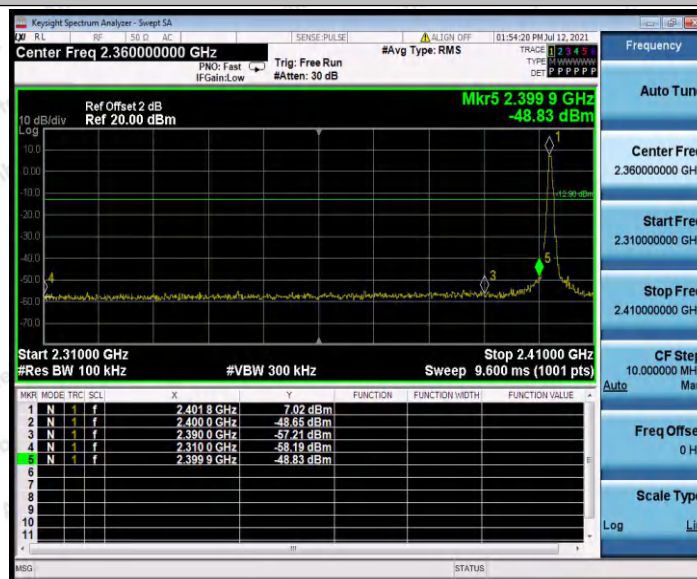
Appendix G: Band edge measurements

Test Result

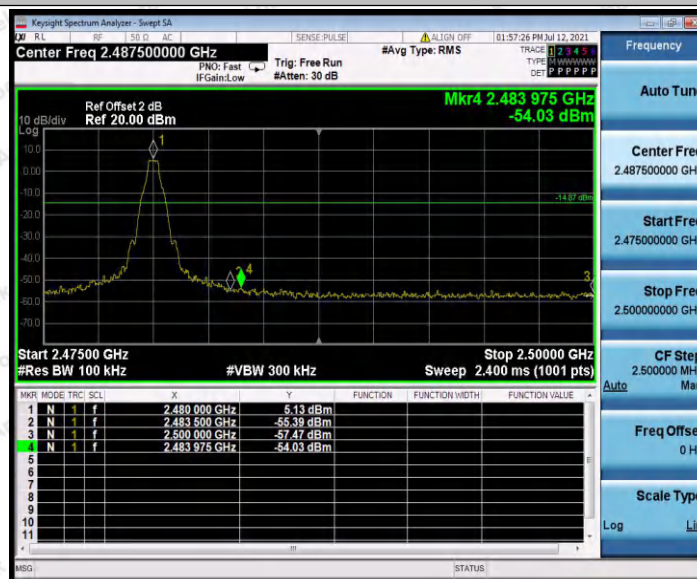
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	7.02	-48.84	<=-12.98	PASS
		High	2480	5.13	-54.03	<=-14.87	PASS
		Low	Hop	6.70	-54.99	<=-13.3	PASS
		High	Hop	4.83	-57.11	<=-15.17	PASS
2DH5	Ant1	Low	2402	6.92	-46.01	<=-13.08	PASS
		High	2480	4.99	-54.03	<=-15.01	PASS
		Low	Hop	5.74	-55.54	<=-14.27	PASS
		High	Hop	4.71	-58.02	<=-15.29	PASS
3DH5	Ant1	Low	2402	7.16	-46.89	<=-12.84	PASS
		High	2480	5.09	-54.26	<=-14.91	PASS
		Low	Hop	7.07	-54.88	<=-12.93	PASS
		High	Hop	2.57	-57.78	<=-17.43	PASS

Test Graphs

DH5_Ant1_Low_2402



DH5_Ant1_High_2480



DH5_Ant1_Low_Hop

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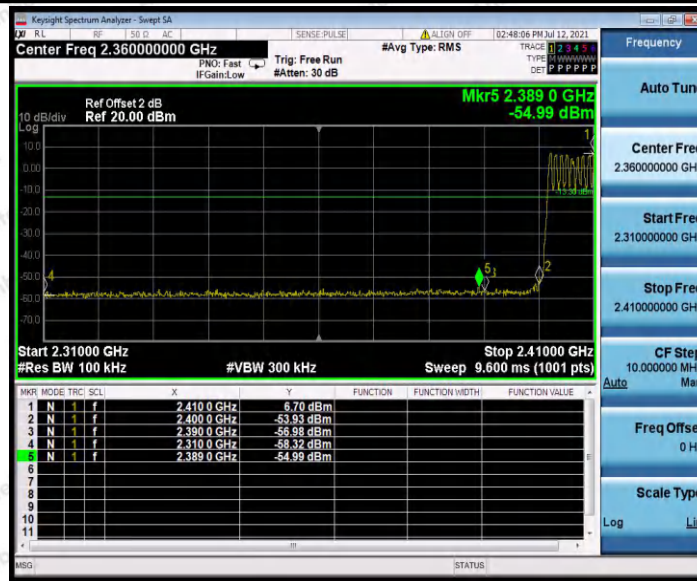
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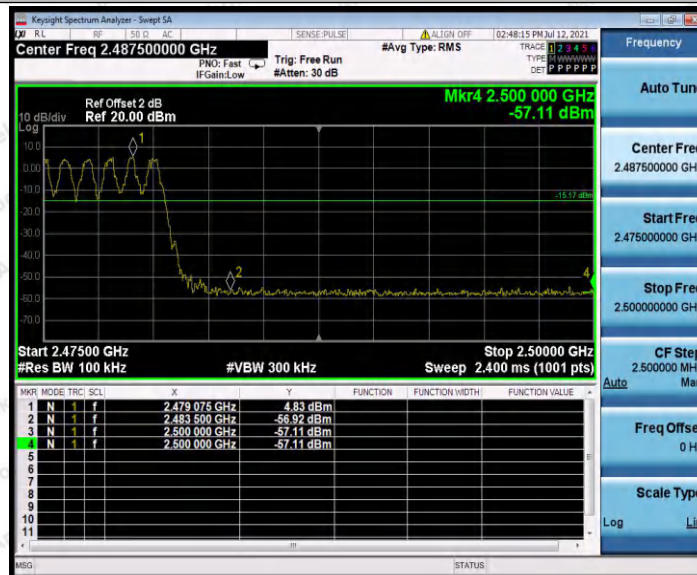
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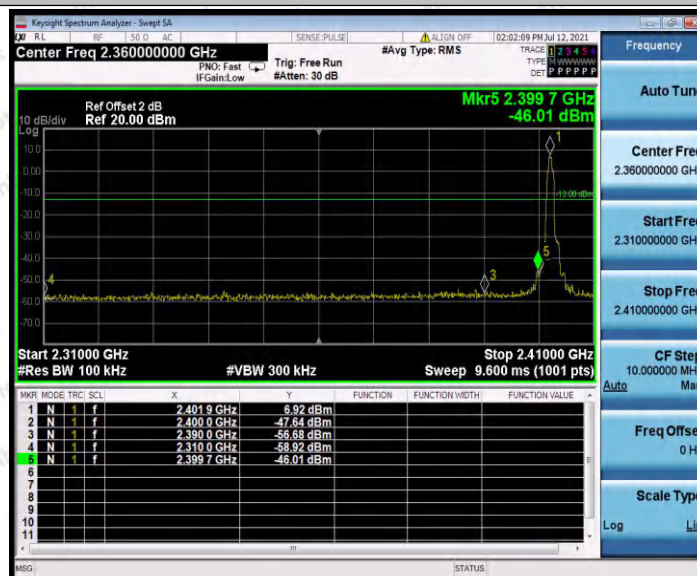
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DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



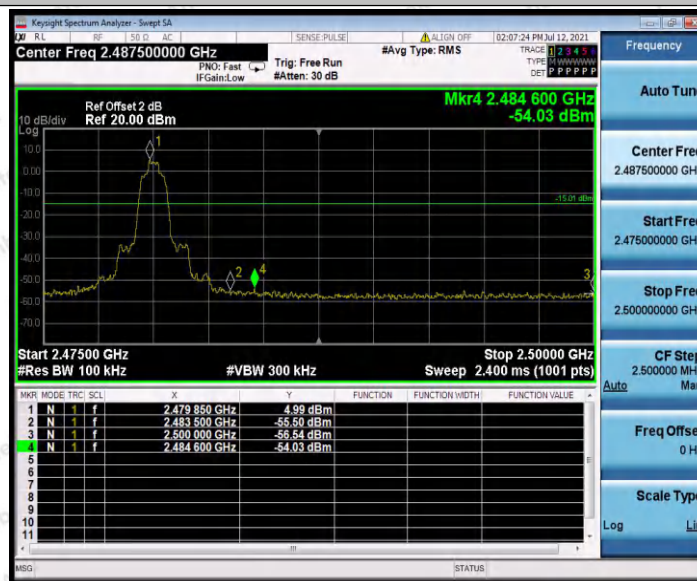
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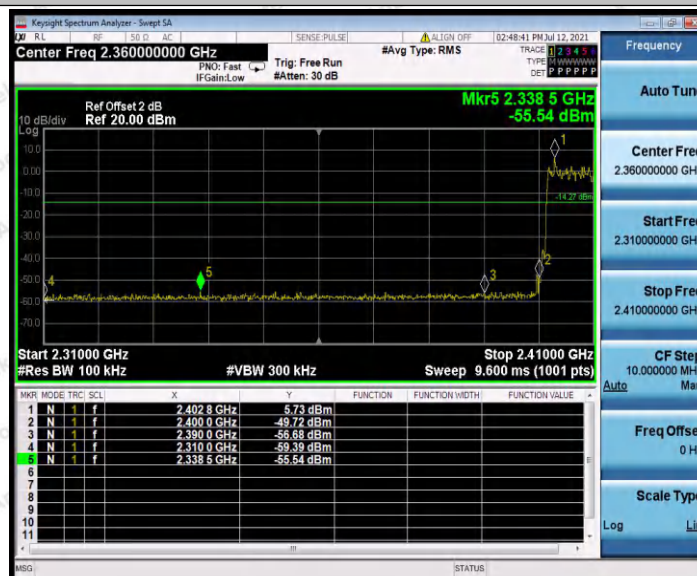
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



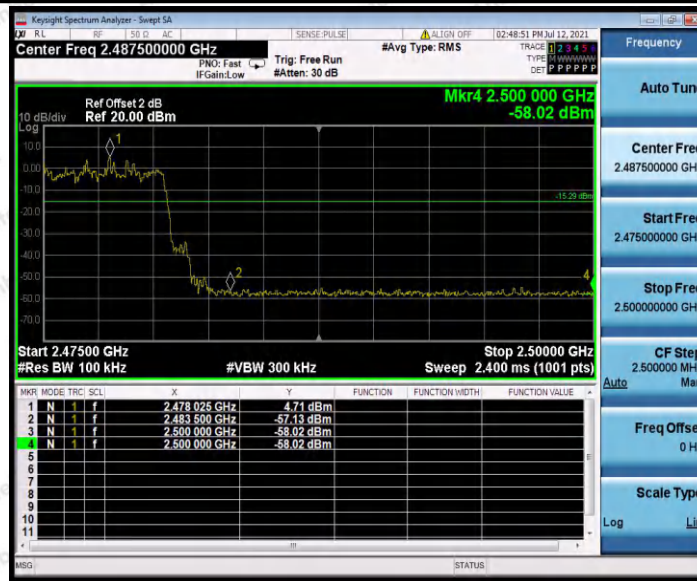
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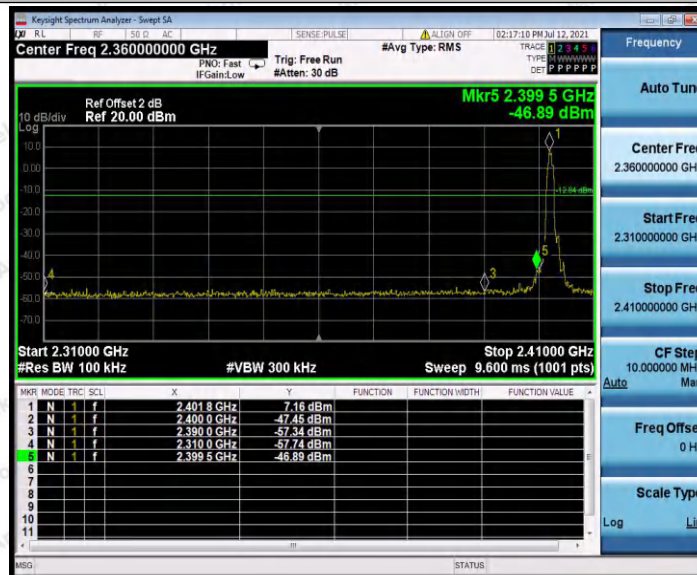
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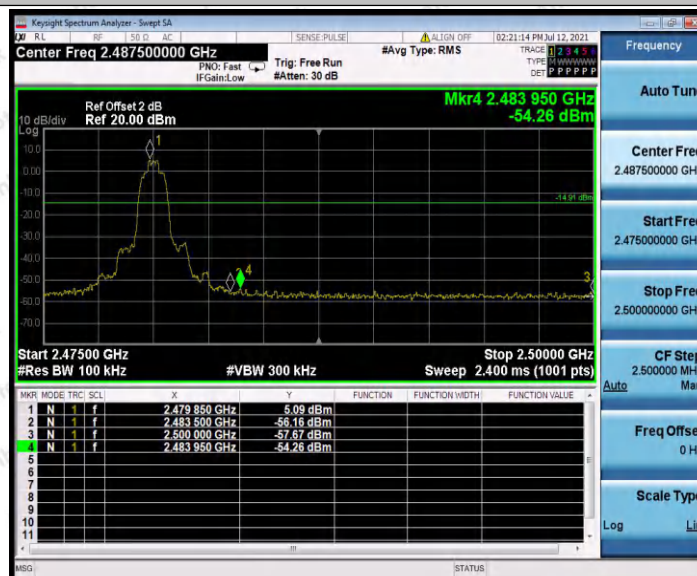
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



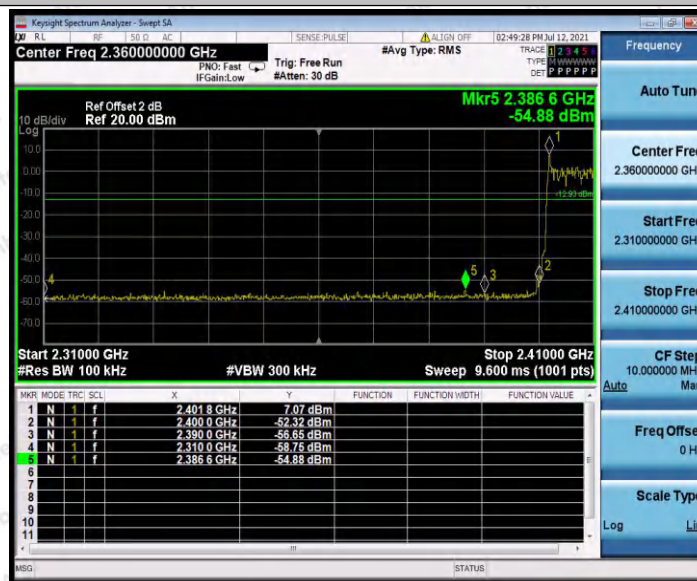
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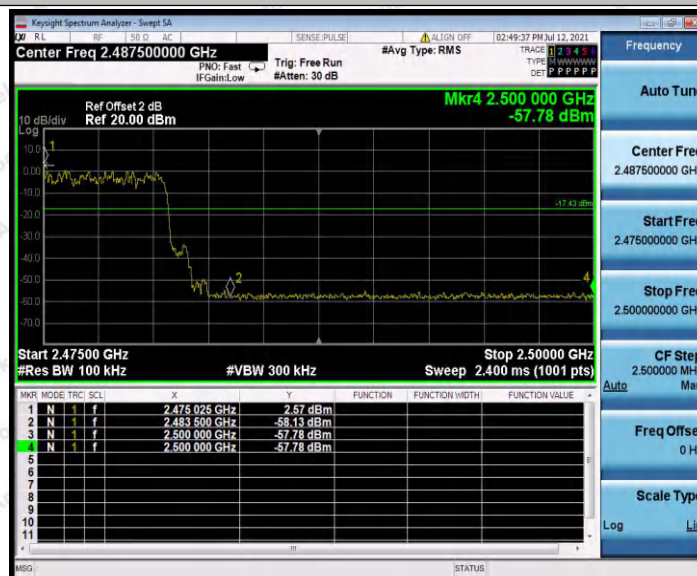
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3DH5_Ant1_Low_Hop



3DH5_Ant1_High_Hop



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Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	7.01	7.01	---	PASS
			30~1000	7.01	-67.93	<=-12.99	PASS
			1000~26500	7.01	-42.16	<=-12.99	PASS
		2441	Reference	6.08	6.08	---	PASS
			30~1000	6.08	-67.97	<=-13.92	PASS
			1000~26500	6.08	-37.12	<=-13.92	PASS
		2480	Reference	5.02	5.02	---	PASS
			30~1000	5.02	-68.57	<=-14.98	PASS
			1000~26500	5.02	-35.54	<=-14.98	PASS
2DH5	Ant1	2402	Reference	6.70	6.70	---	PASS
			30~1000	6.70	-68.32	<=-13.3	PASS
			1000~26500	6.70	-40.01	<=-13.3	PASS
		2441	Reference	5.93	5.93	---	PASS
			30~1000	5.93	-68.12	<=-14.07	PASS
			1000~26500	5.93	-40.77	<=-14.07	PASS
		2480	Reference	4.84	4.84	---	PASS
			30~1000	4.84	-67.86	<=-15.16	PASS
			1000~26500	4.84	-41.06	<=-15.16	PASS
3DH5	Ant1	2402	Reference	6.96	6.96	---	PASS
			30~1000	6.96	-68.46	<=-13.04	PASS
			1000~26500	6.96	-41.9	<=-13.04	PASS
		2441	Reference	6.12	6.12	---	PASS
			30~1000	6.12	-68.55	<=-13.88	PASS
			1000~26500	6.12	-42.1	<=-13.88	PASS
		2480	Reference	5.04	5.04	---	PASS
			30~1000	5.04	-68.22	<=-14.96	PASS
			1000~26500	5.04	-35.72	<=-14.96	PASS

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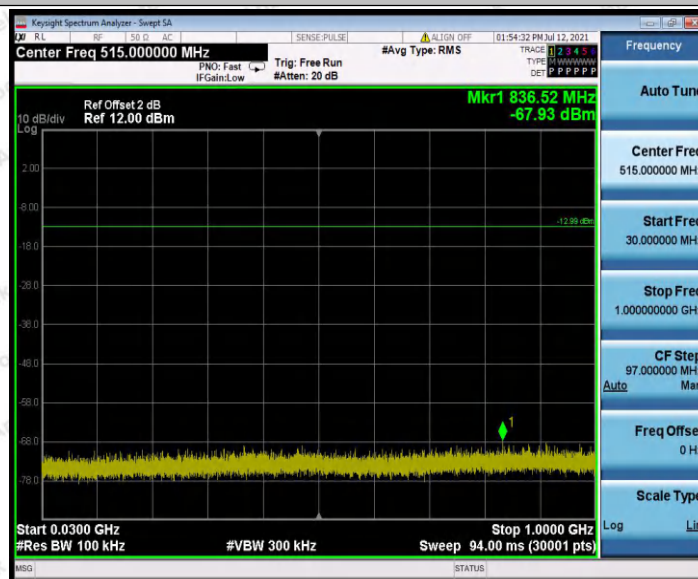
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Test Graphs

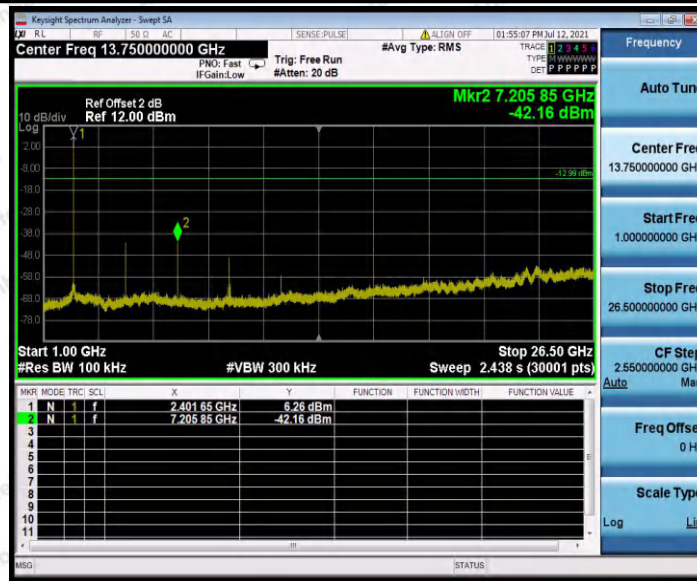
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



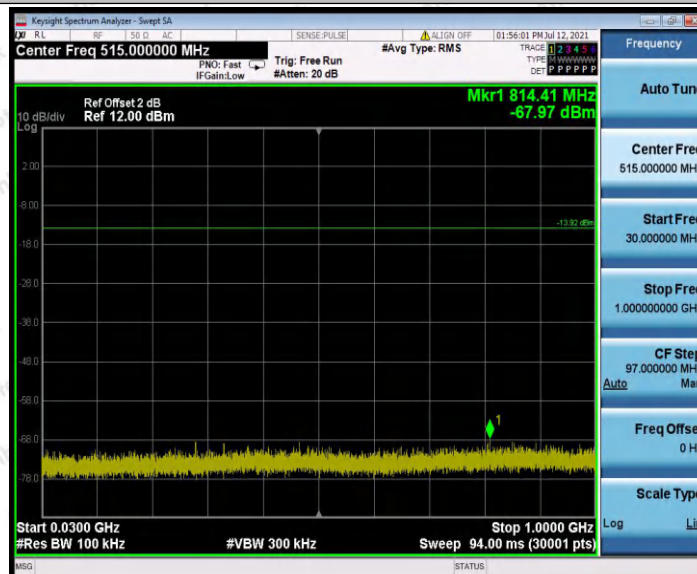
DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



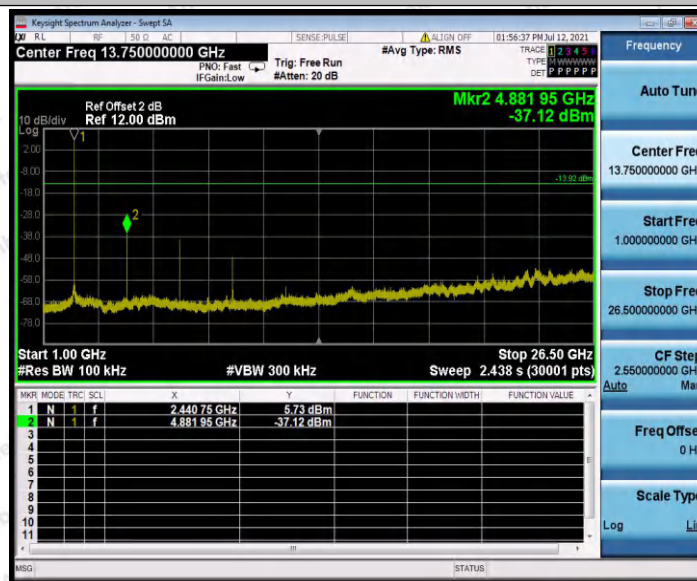
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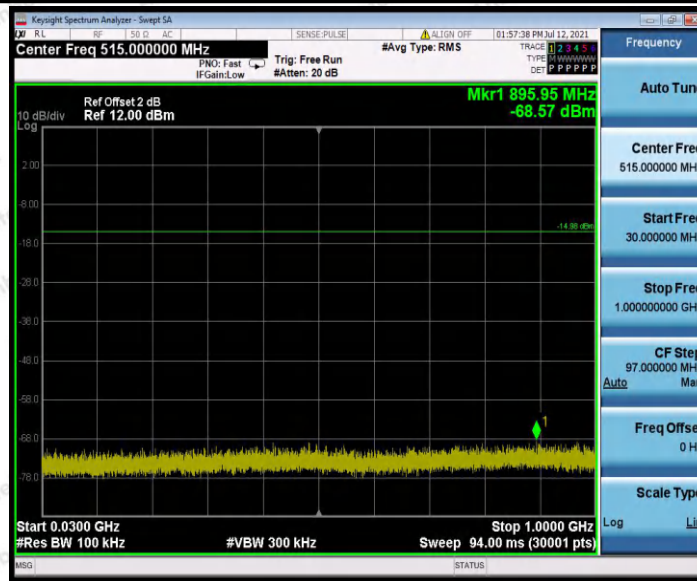
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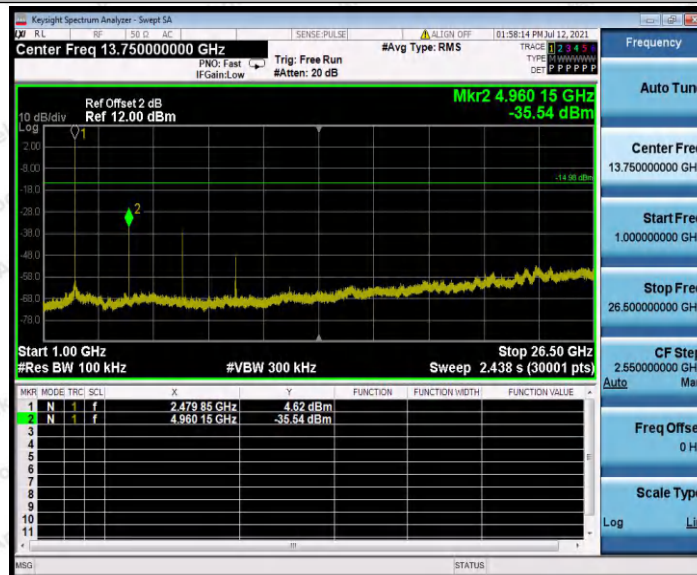
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference

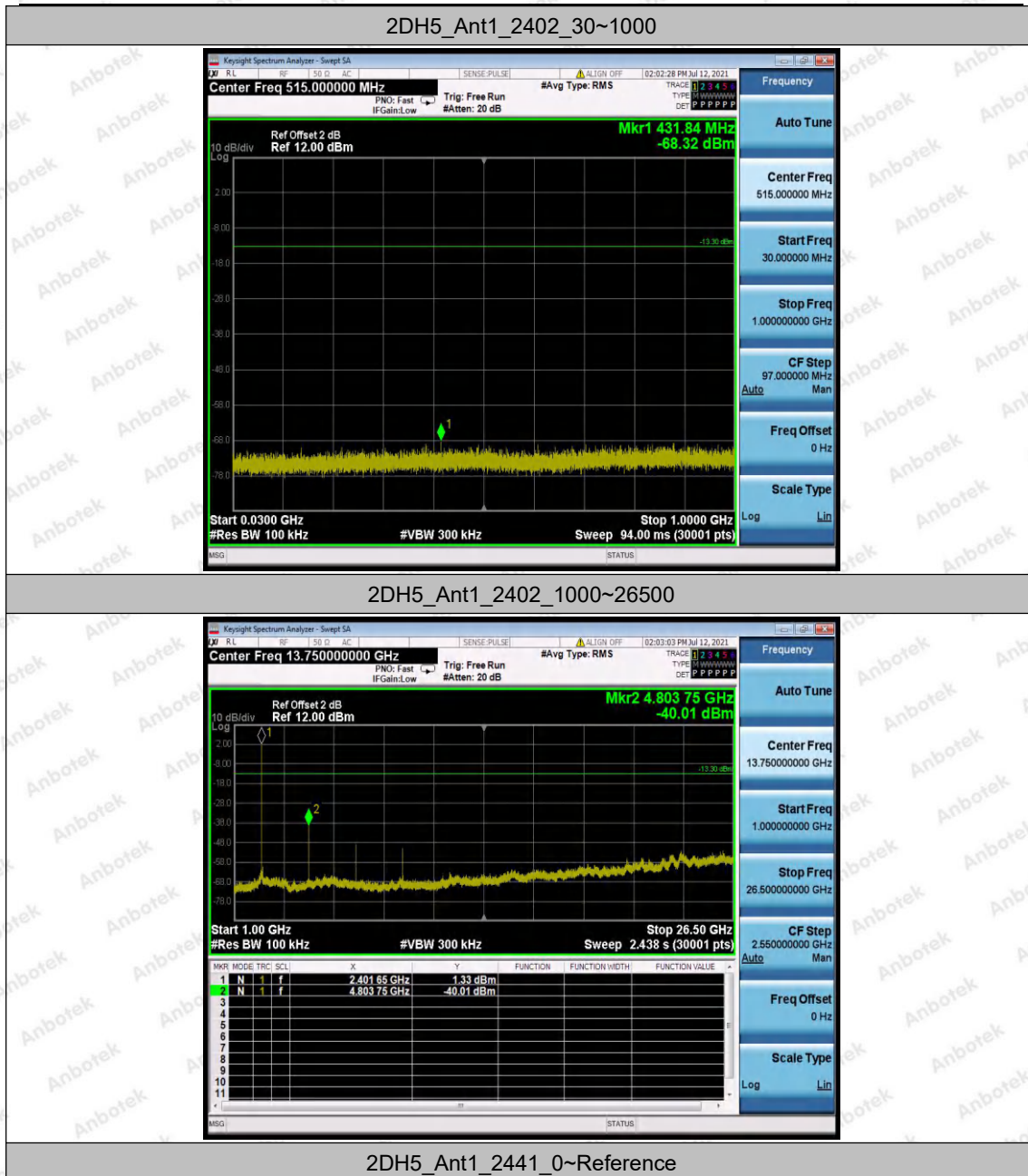


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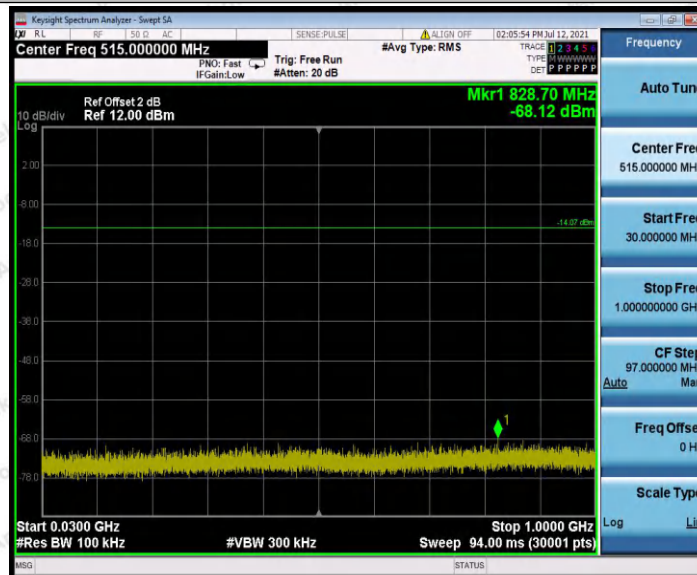
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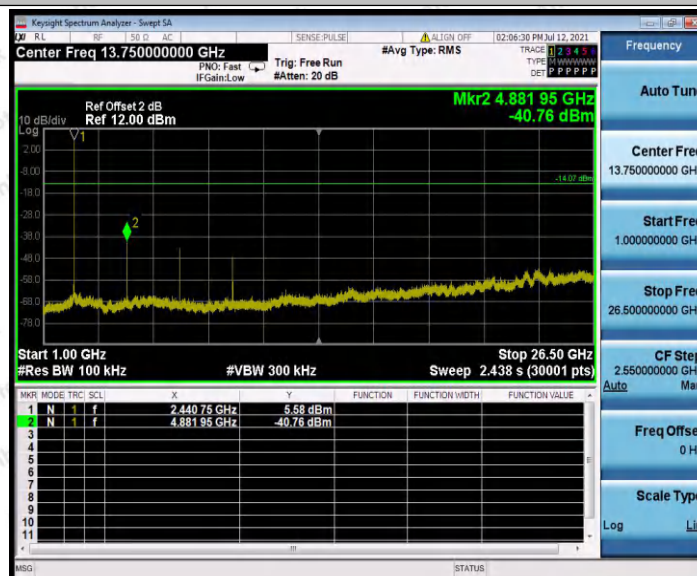




2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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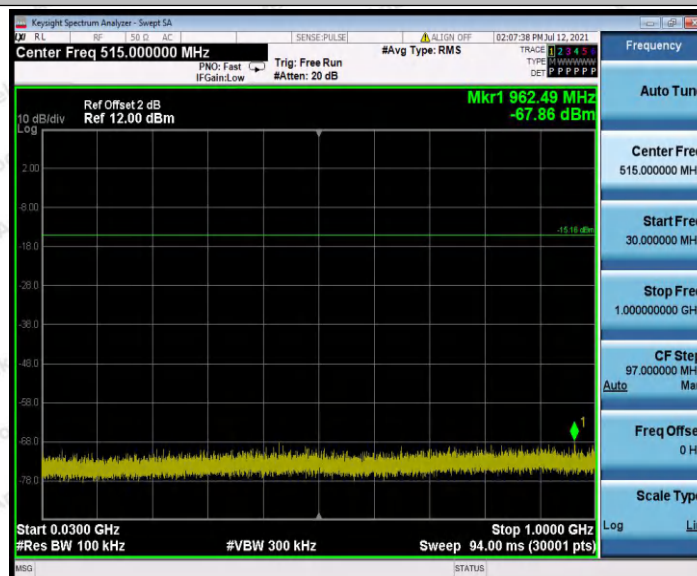
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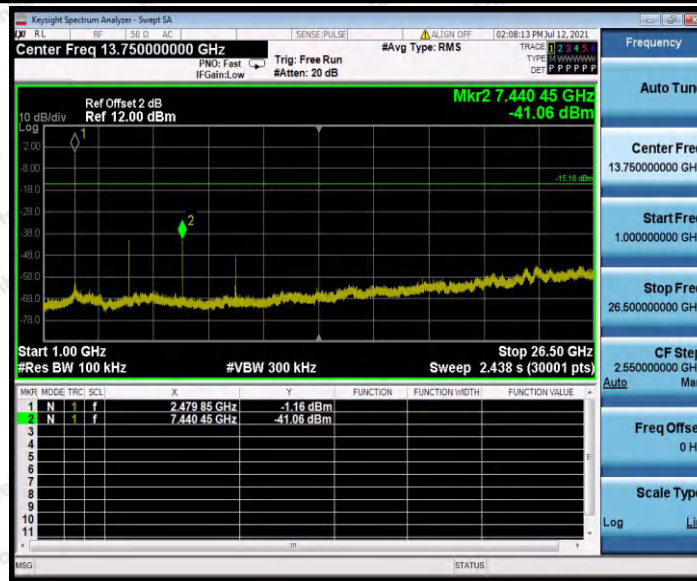
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2DH5_Ant1_2480_30~1000



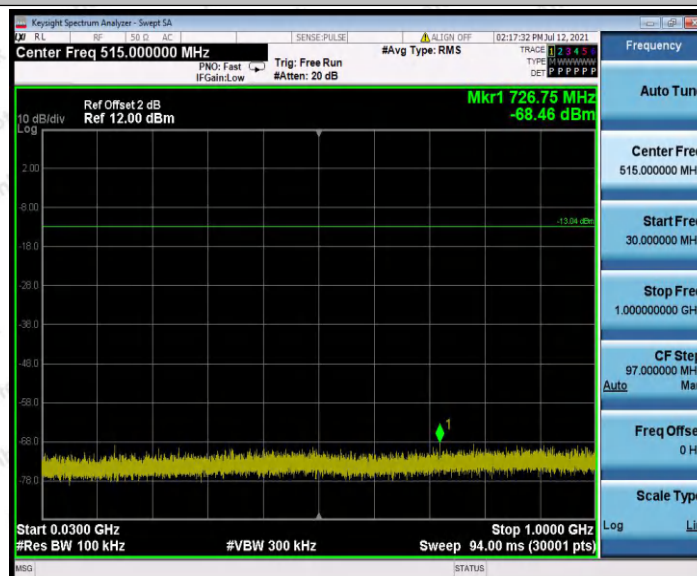
2DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



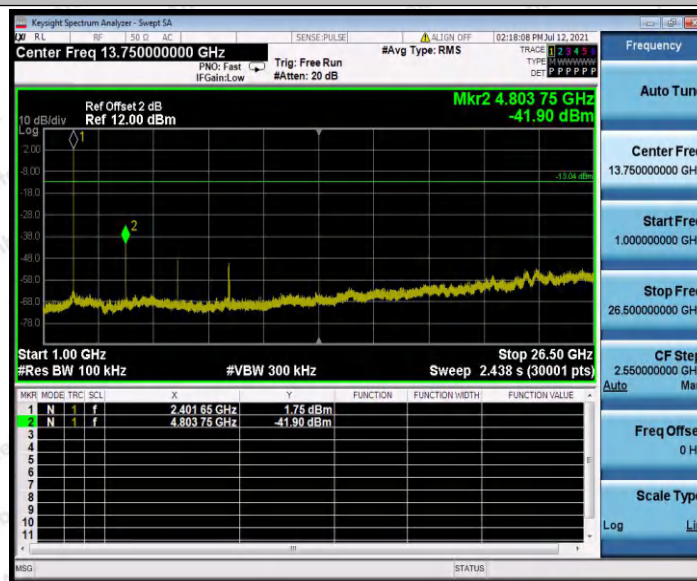
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3DH5_Ant1_2402_1000~26500



3DH5_Ant1_2441_0~Reference

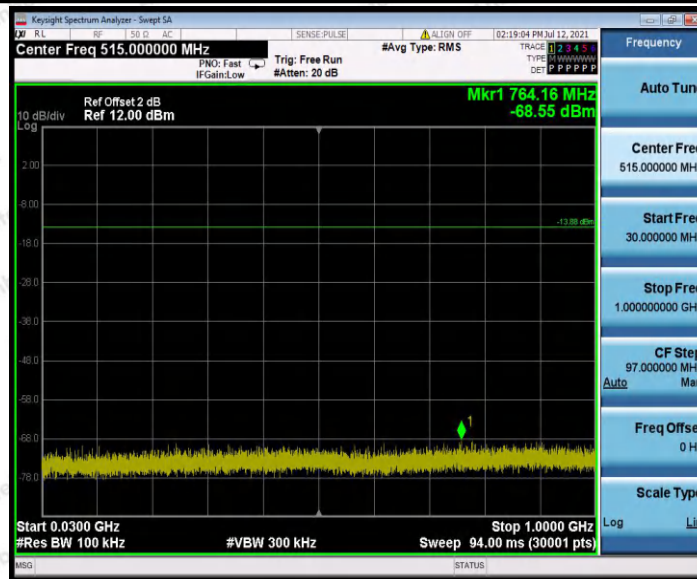


3DH5_Ant1_2441_30~1000

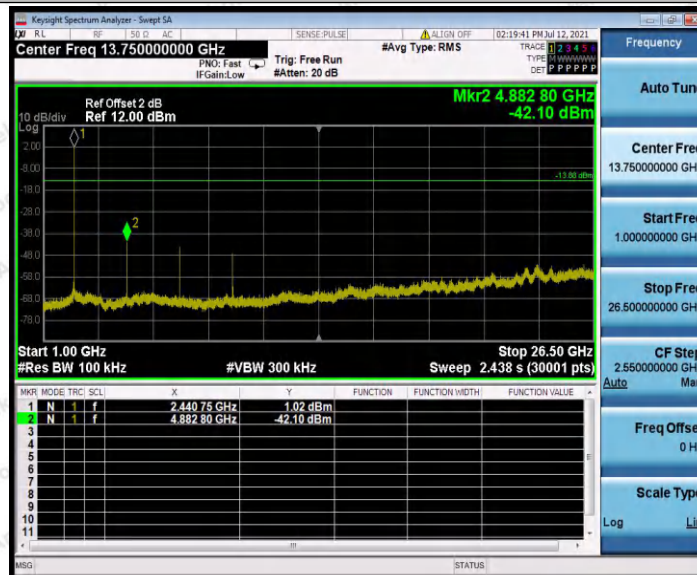
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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

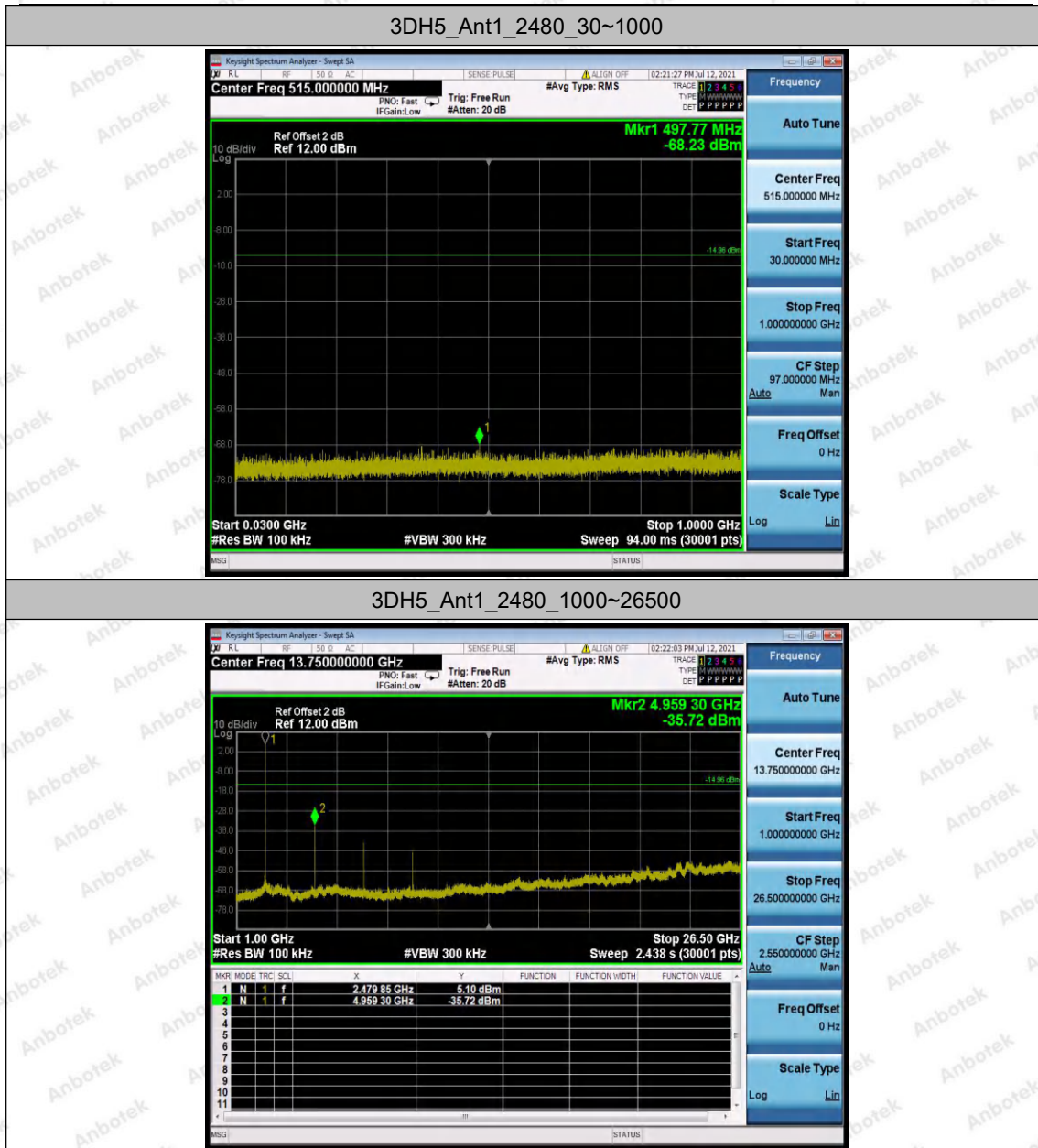


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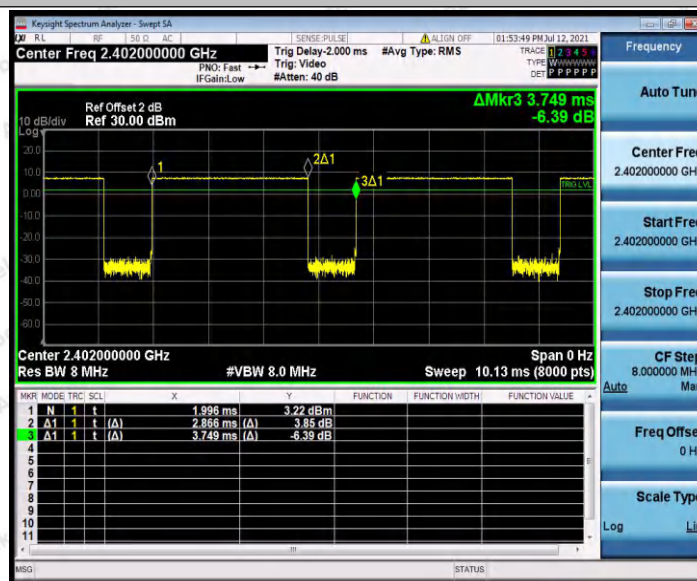
Appendix I: Duty Cycle

Test Result

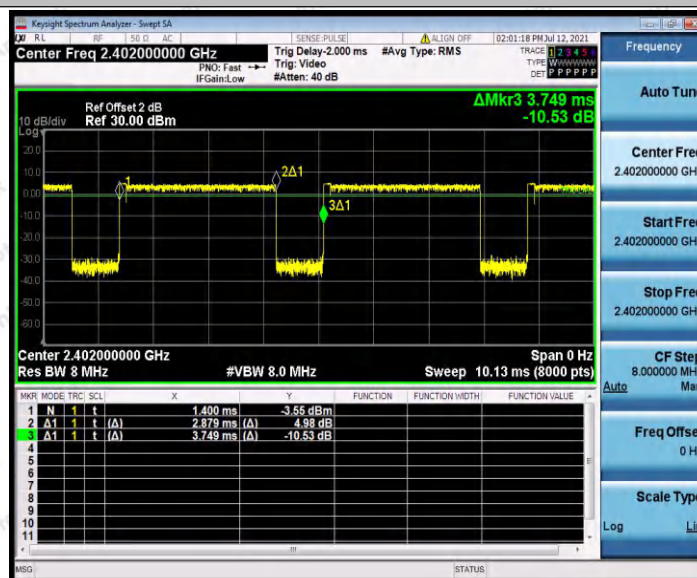
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	0.7653	76.53	1.16	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS

Test Graphs

DH5_Ant1_2402



2DH5_Ant1_2402



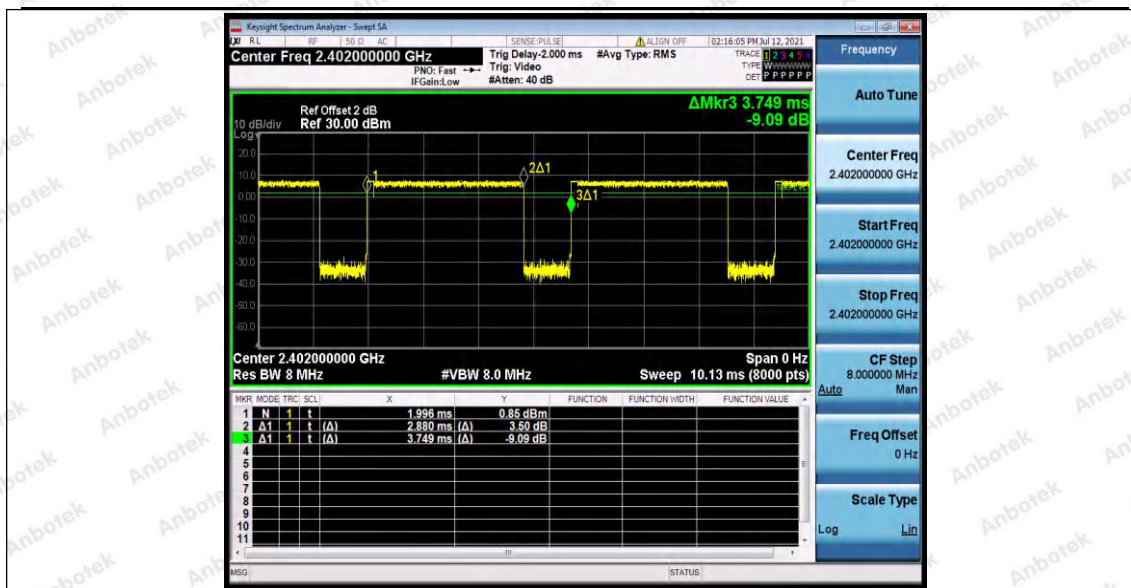
3DH5_Ant1_2402

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