

Appendix Test Data

Report No.:	18220WC20155901	Test Sample No.:	1-2-2
Start Test Date:	2022.7.12	Finish Test Date:	2022.7.21
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	22.7°C	Relative Humidity:	53.6 %
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	0.942	2401.541	2402.483	---	PASS
		2441	0.948	2440.541	2441.489	---	PASS
		2480	0.942	2479.541	2480.483	---	PASS
2DH5	Ant1	2402	1.317	2401.337	2402.654	---	PASS
		2441	1.266	2440.364	2441.630	---	PASS
		2480	1.320	2479.340	2480.660	---	PASS
3DH5	Ant1	2402	1.272	2401.352	2402.624	---	PASS
		2441	1.311	2440.343	2441.654	---	PASS
		2480	1.269	2479.352	2480.621	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



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



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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	0.89093	2401.55 7	2402.448	---	PASS
		2441	0.88475	2440.55 8	2441.443	---	PASS
		2480	0.88781	2479.55 8	2480.446	---	PASS
2DH5	Ant1	2402	1.1919	2401.40 4	2402.596	---	PASS
		2441	1.1953	2440.40 3	2441.598	---	PASS
		2480	1.2014	2479.40 1	2480.602	---	PASS
3DH5	Ant1	2402	1.2019	2401.39 1	2402.592	---	PASS
		2441	1.2138	2440.38 3	2441.597	---	PASS
		2480	1.2128	2479.38 5	2480.598	---	PASS

Test Graphs





2DH5_Ant1_2402



2DH5_Ant1_2441



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3DH5_Ant1_2441

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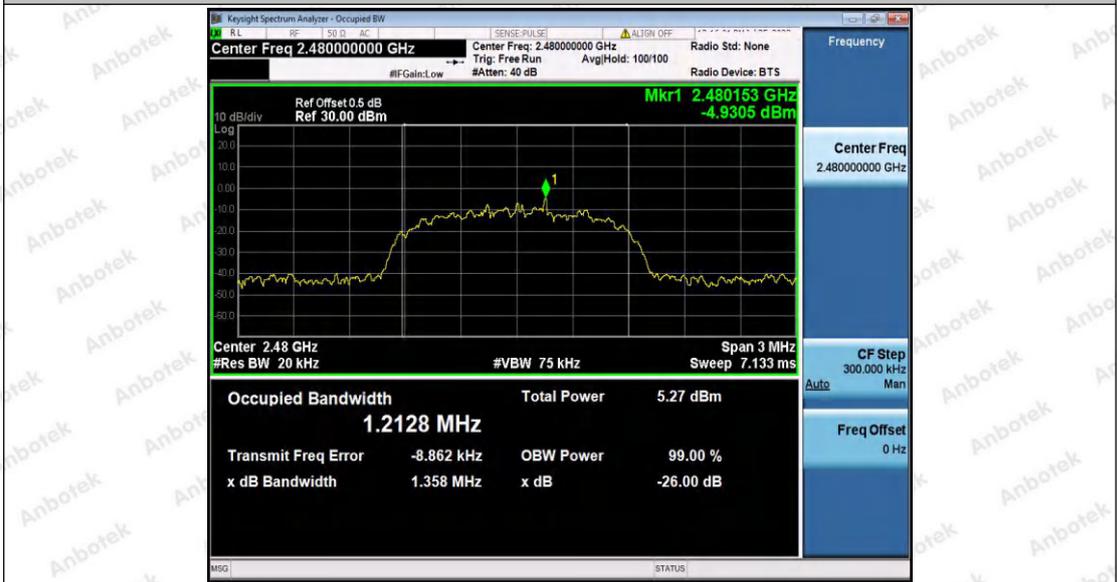
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3DH5_Ant1_2480



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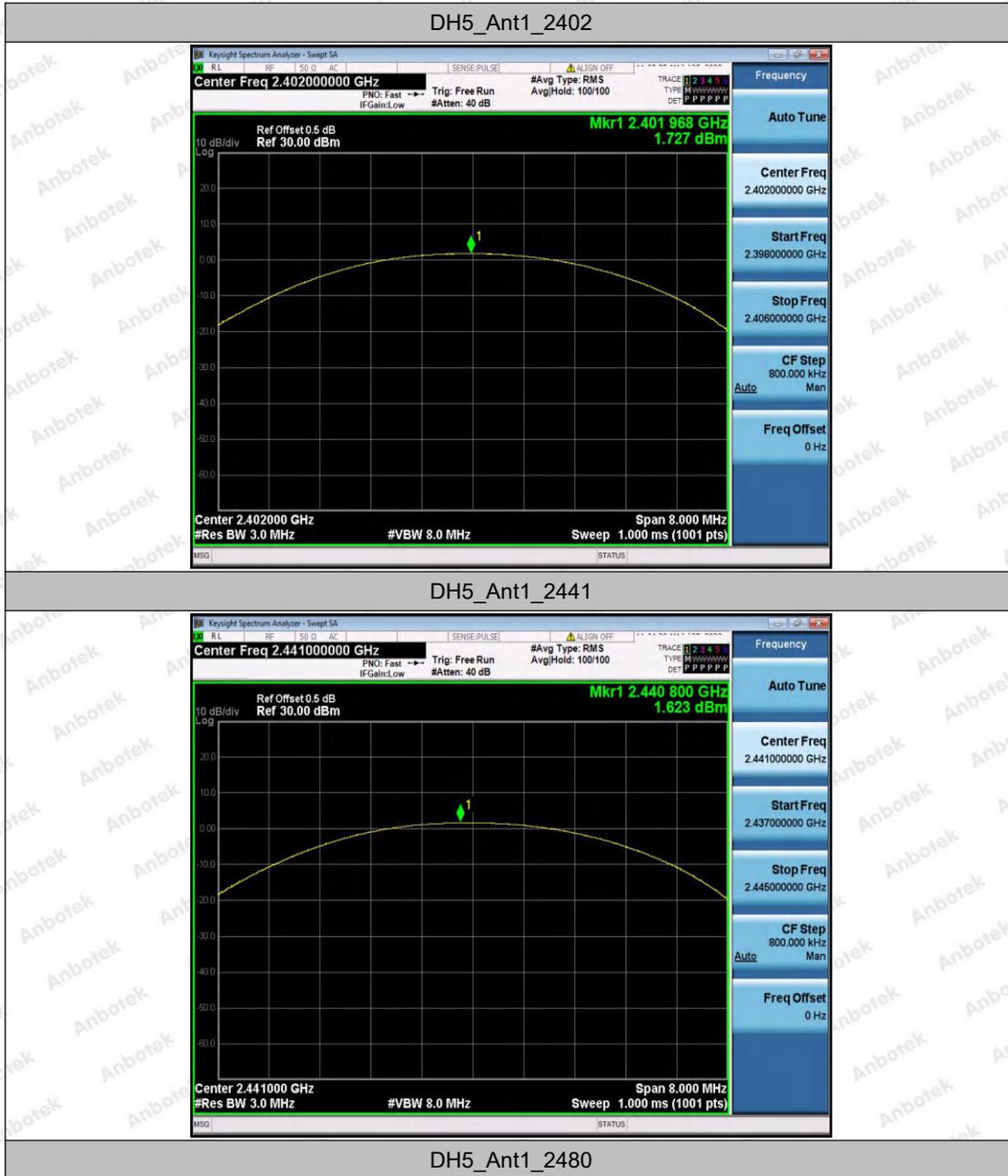
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Appendix C: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.73	≤20.97	PASS
		2441	1.62	≤20.97	PASS
		2480	0.83	≤20.97	PASS
2DH5	Ant1	2402	1.13	≤20.97	PASS
		2441	0.82	≤20.97	PASS
		2480	0.21	≤20.97	PASS
3DH5	Ant1	2402	1.37	≤20.97	PASS
		2441	1.04	≤20.97	PASS
		2480	0.32	≤20.97	PASS

Test Graphs



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2DH5_Ant1_2402



2DH5_Ant1_2441



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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	1.058	≥0.948	PASS
2DH5	Ant1	Hop	1.014	≥0.880	PASS
3DH5	Ant1	Hop	1.054	≥0.874	PASS

Test Graphs





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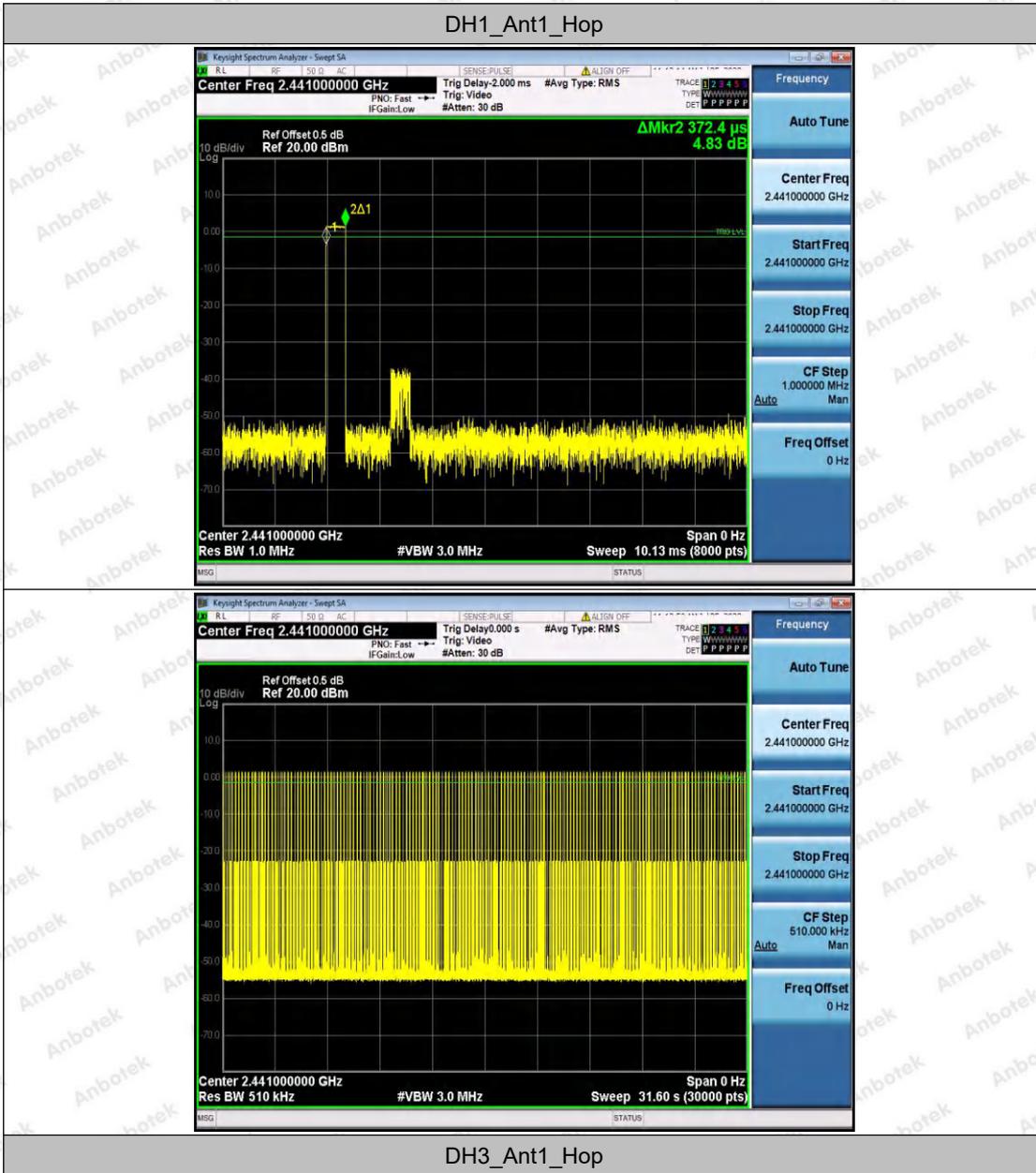
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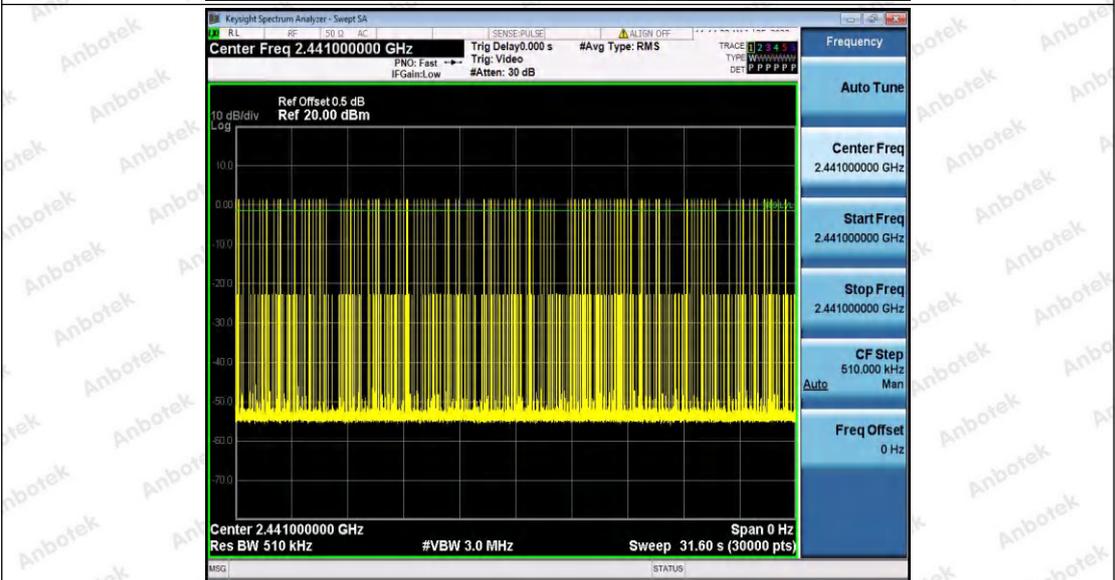
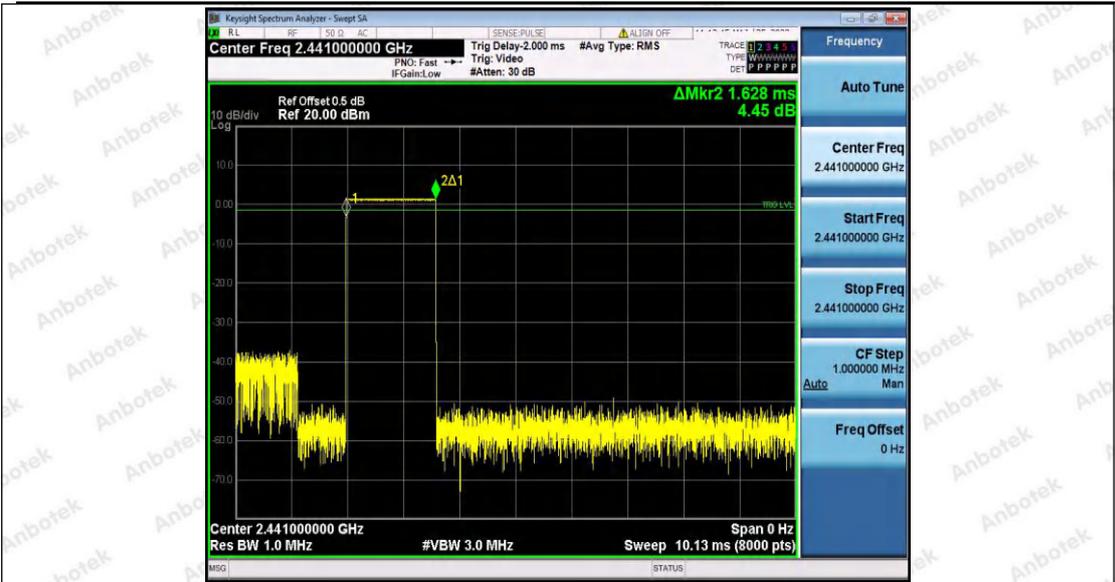
Appendix E: Time of occupancy

Test Result

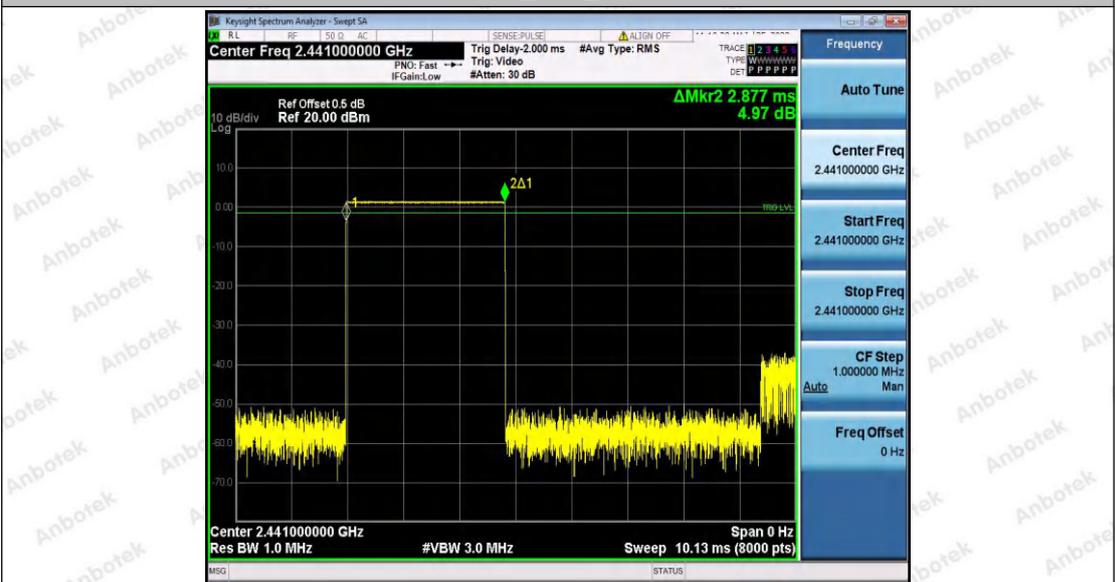
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	313	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	159	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
2DH5	Ant1	Hop	2.88	107	0.308	≤0.4	PASS
3DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	159	0.259	≤0.4	PASS
3DH5	Ant1	Hop	2.88	98	0.283	≤0.4	PASS

Test Graphs





DH5_Ant1_Hop

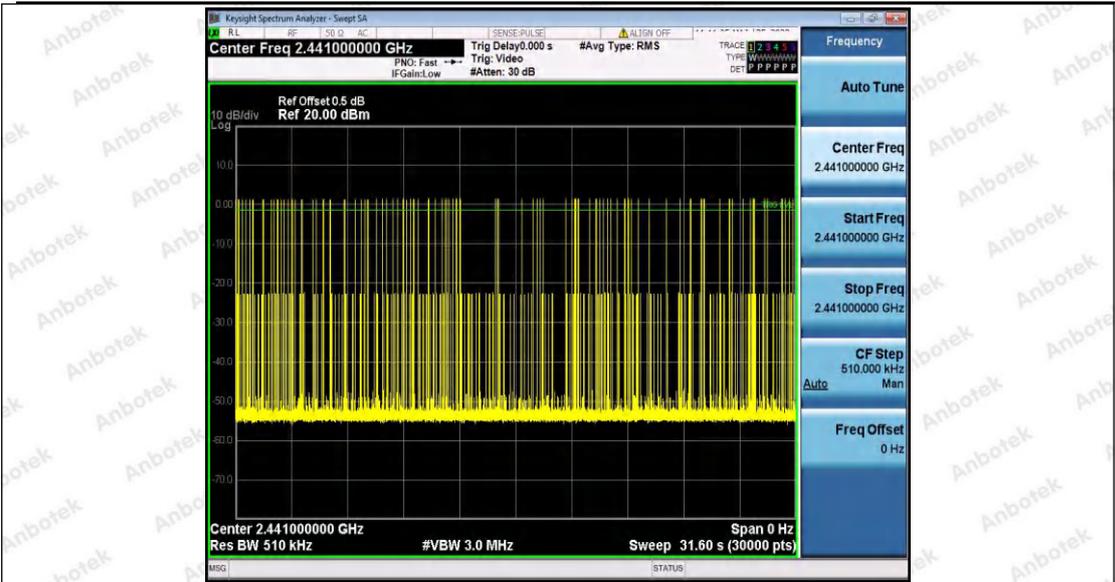


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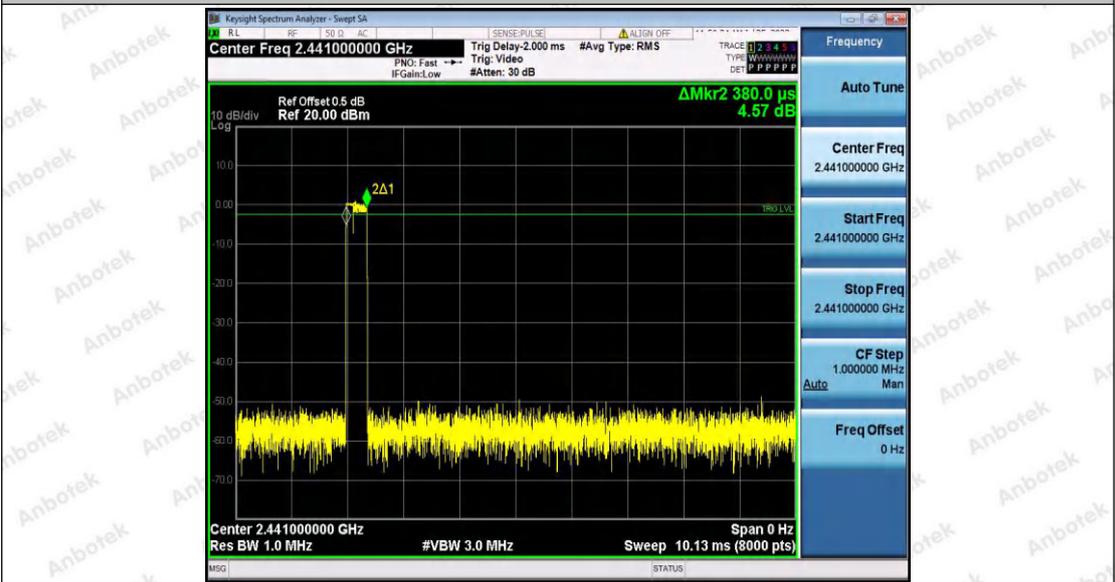
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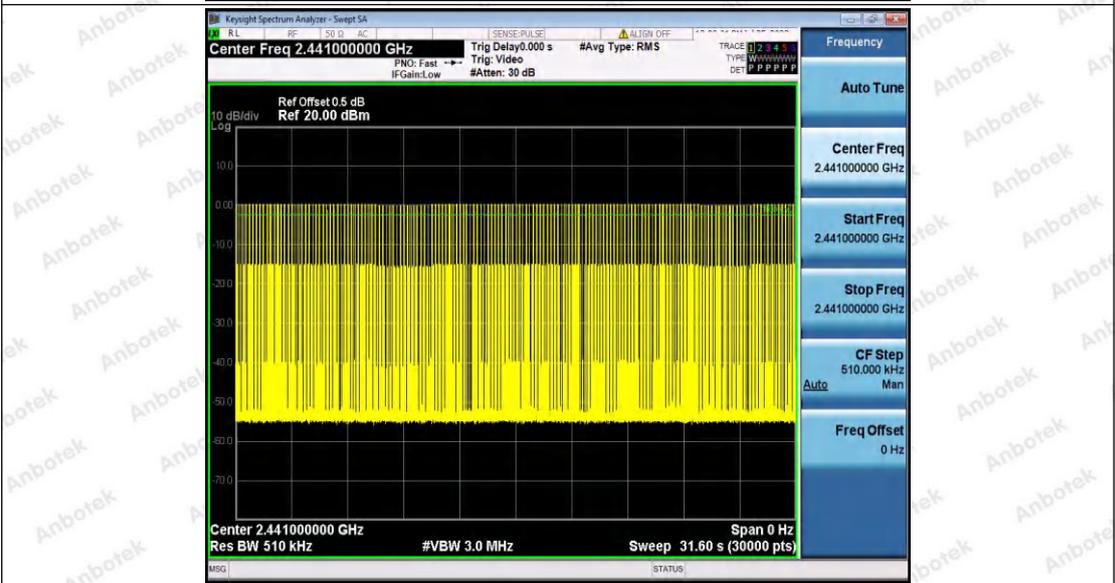
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2DH1_Ant1_Hop



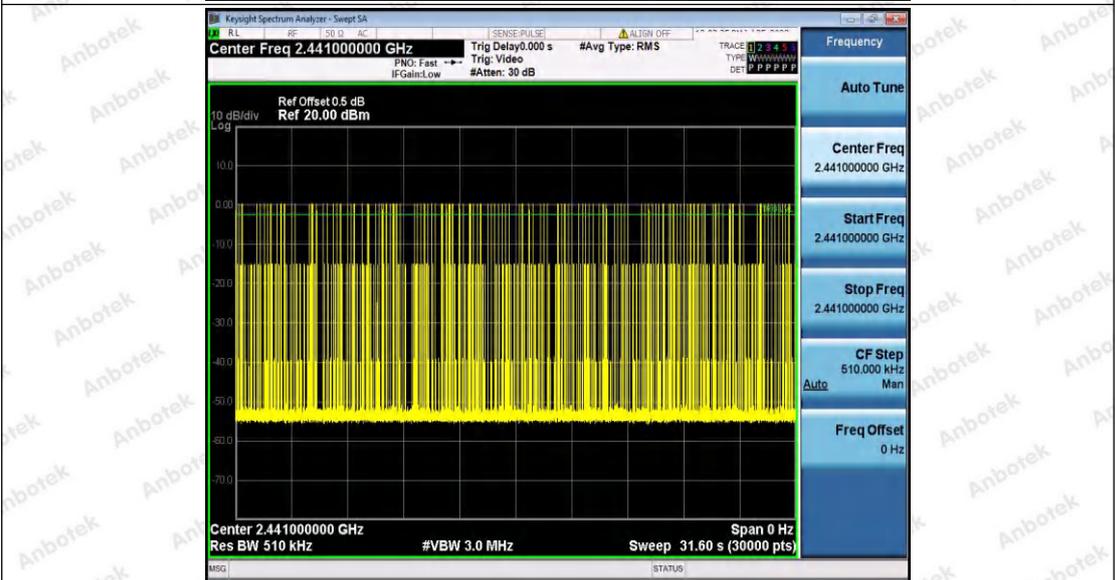
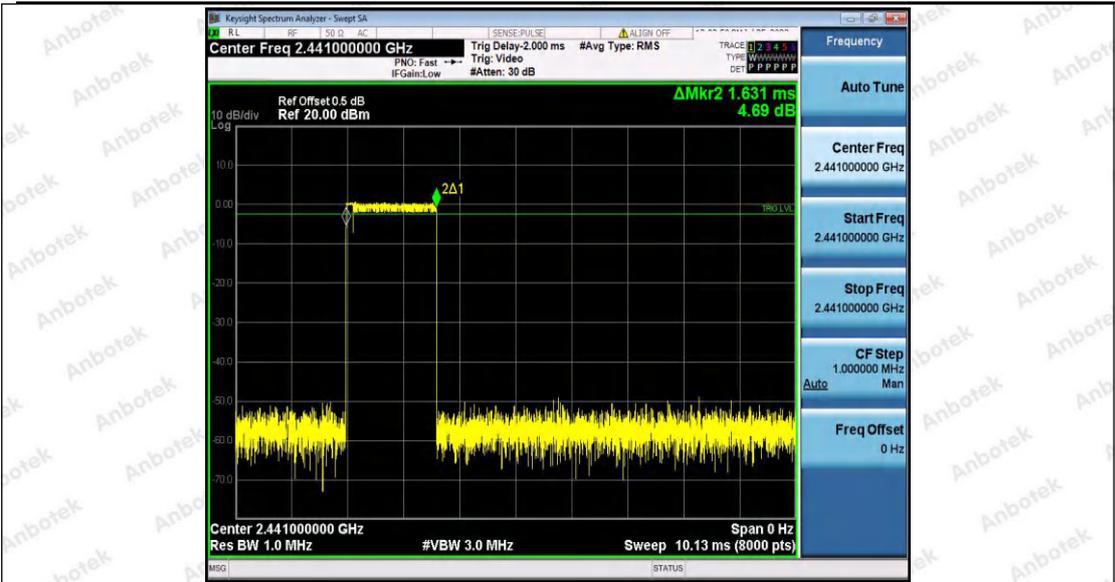
2DH3_Ant1_Hop



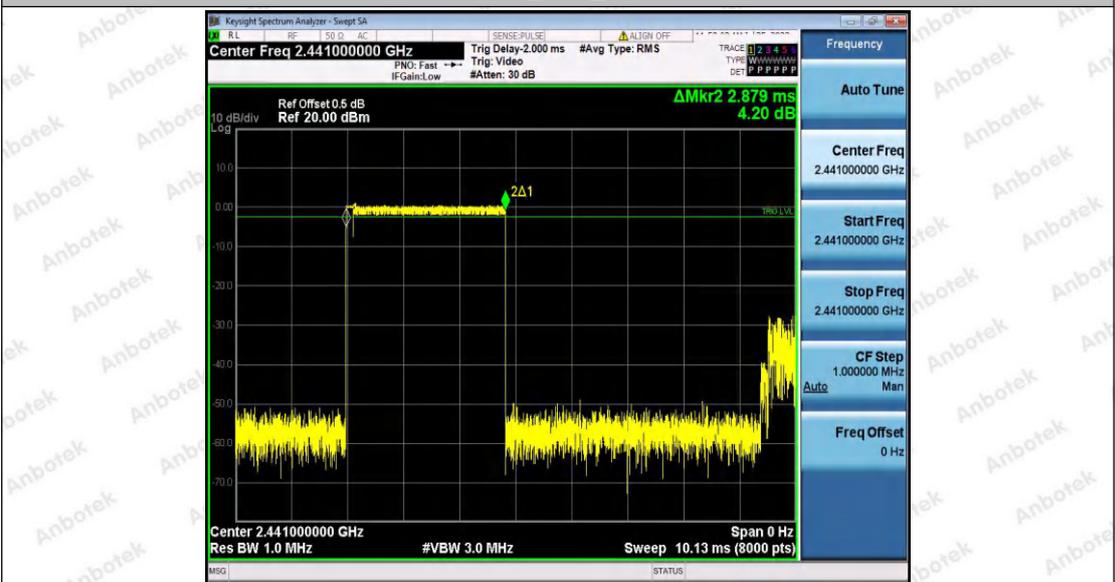
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2DH5_Ant1_Hop

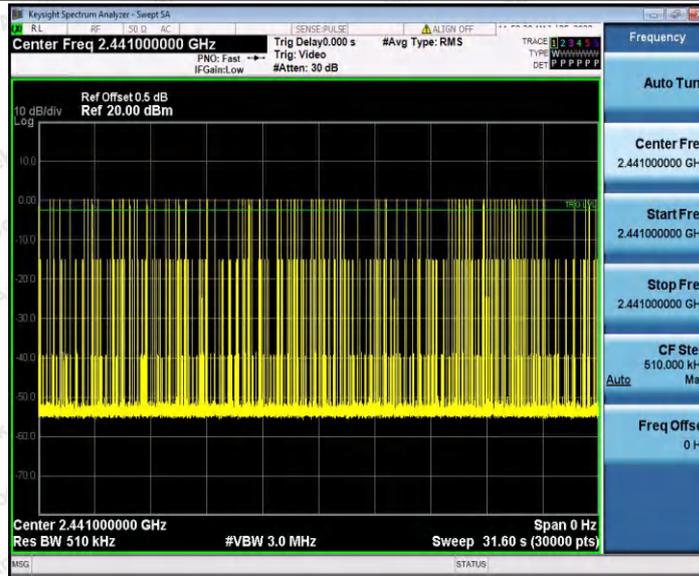


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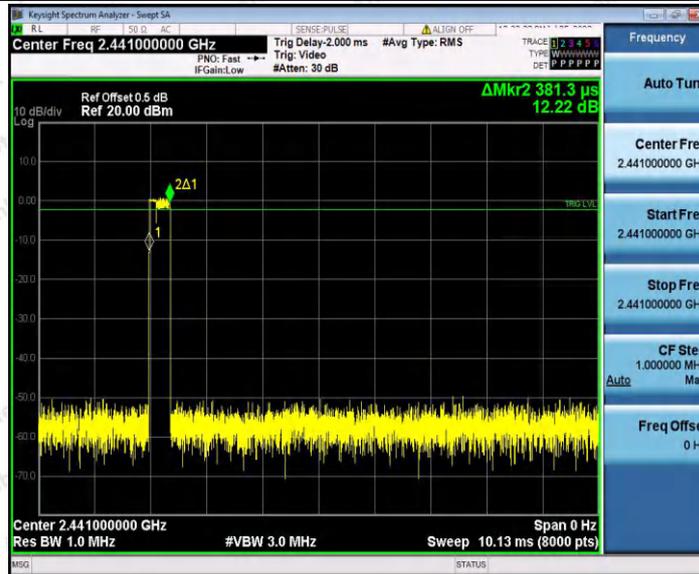
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3DH1_Ant1_Hop

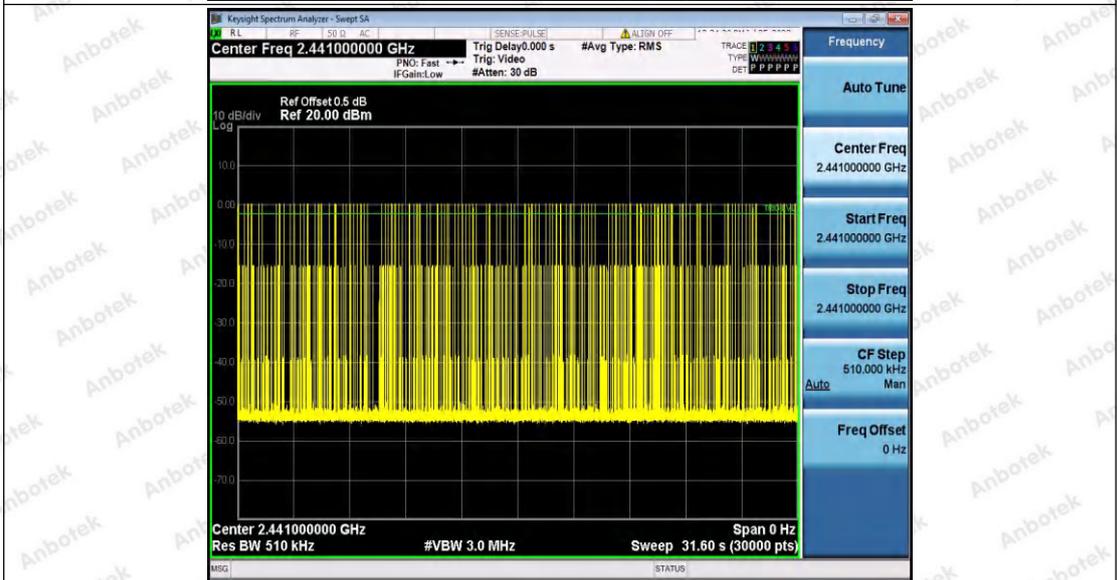
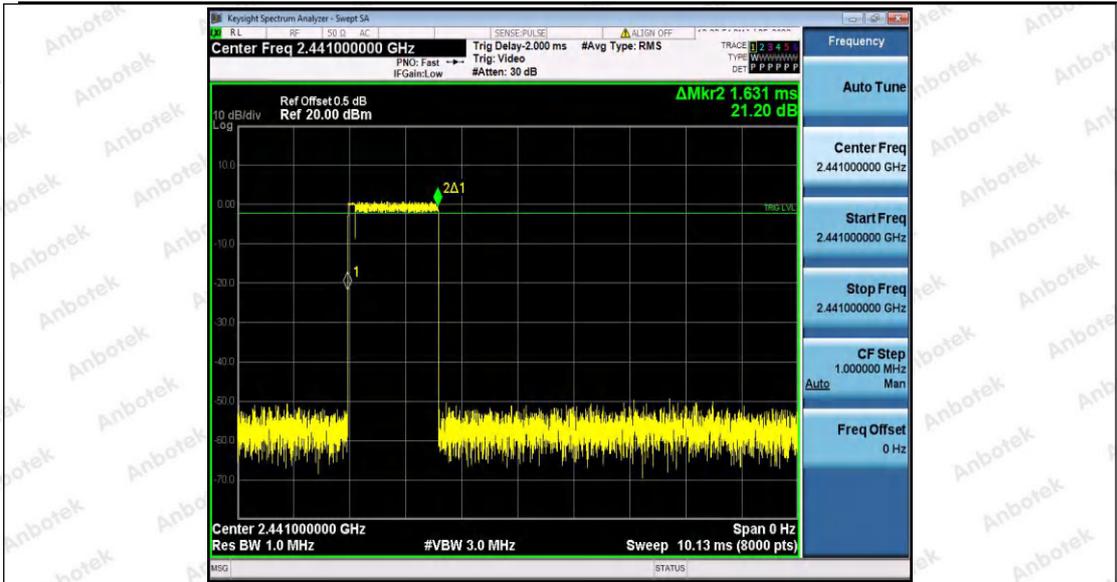


3DH3_Ant1_Hop

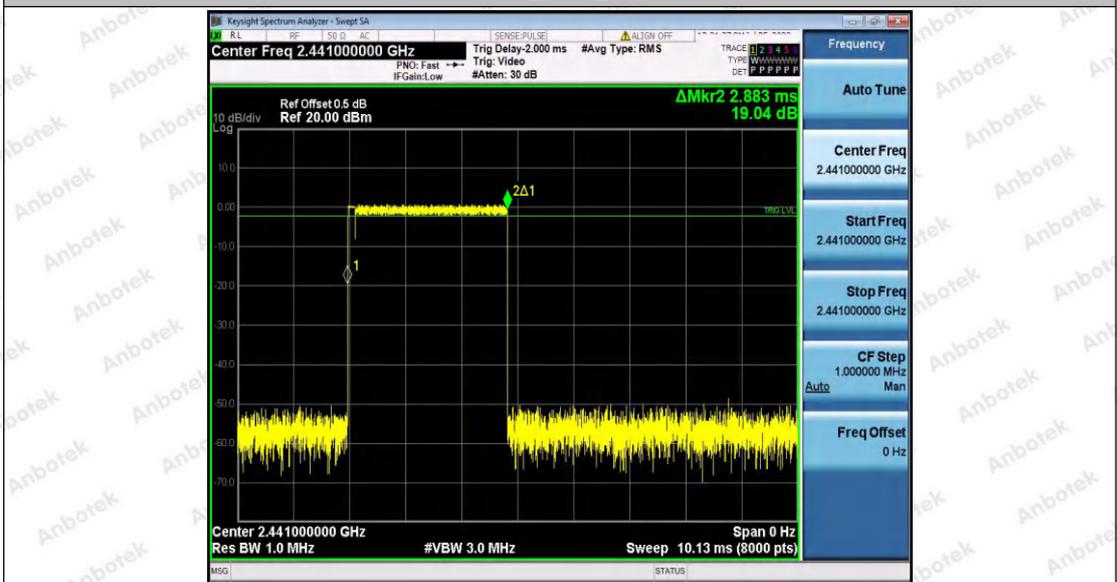
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3DH5_Ant1_Hop

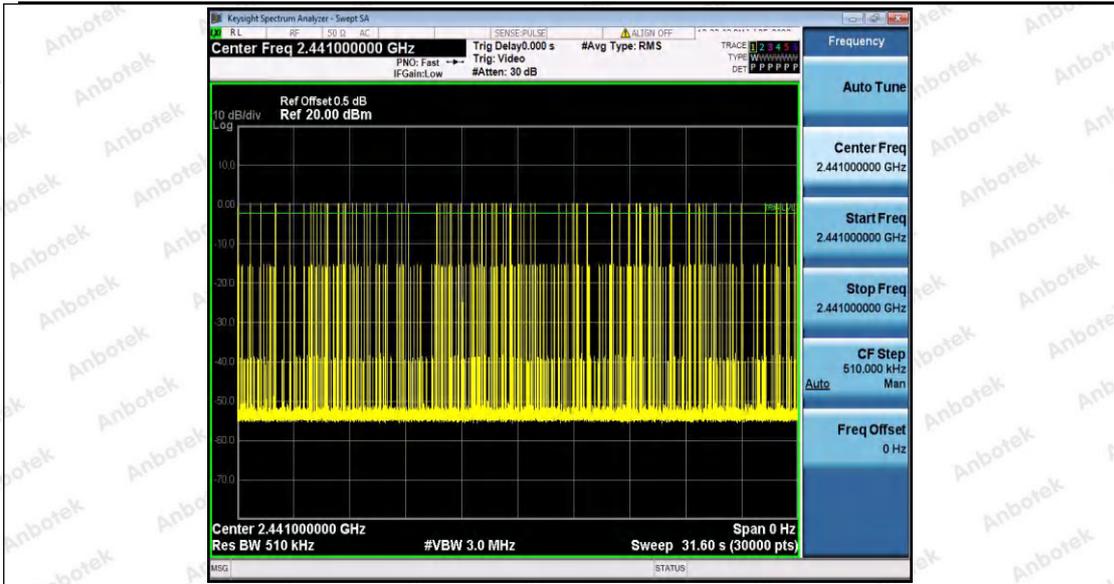


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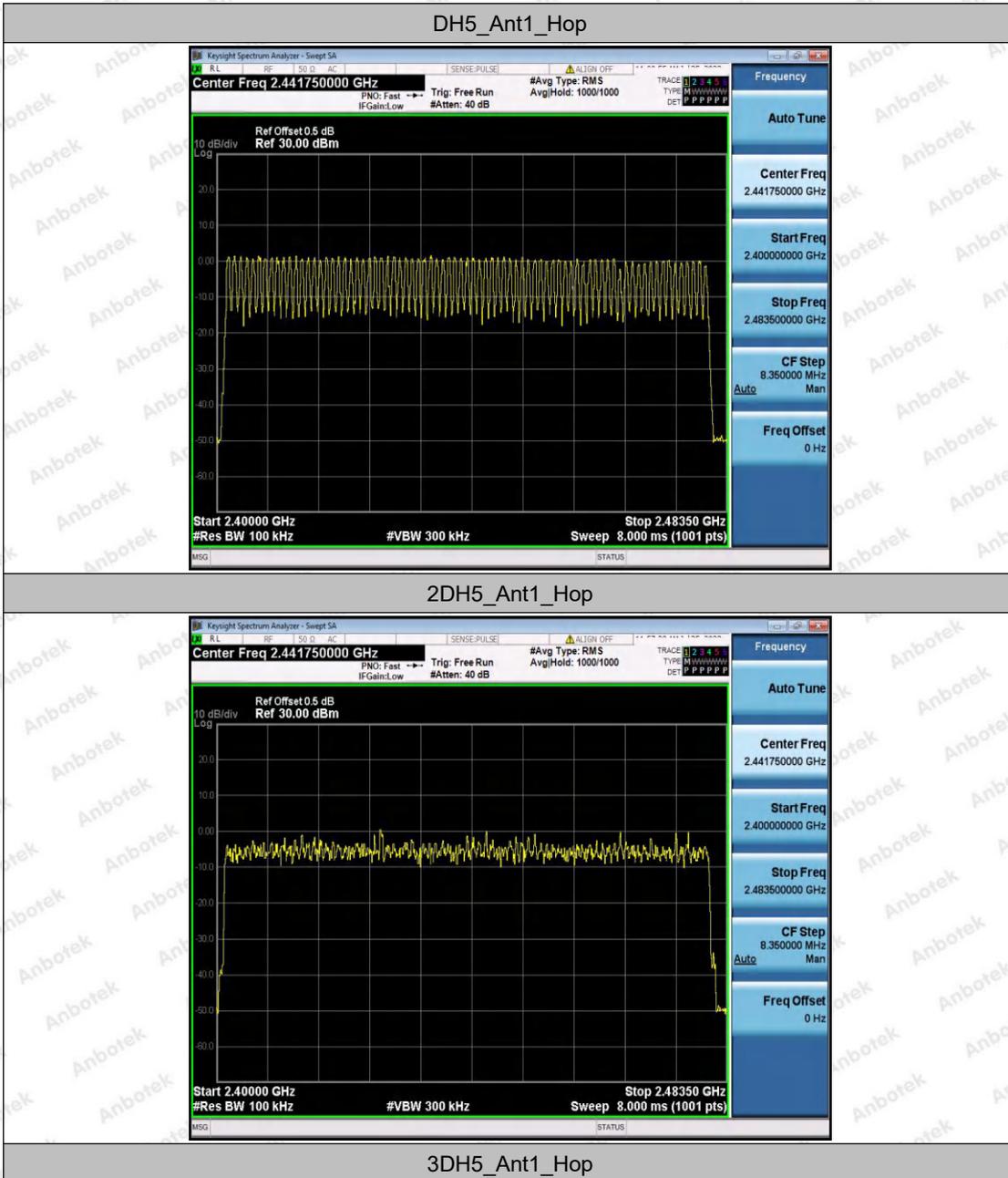
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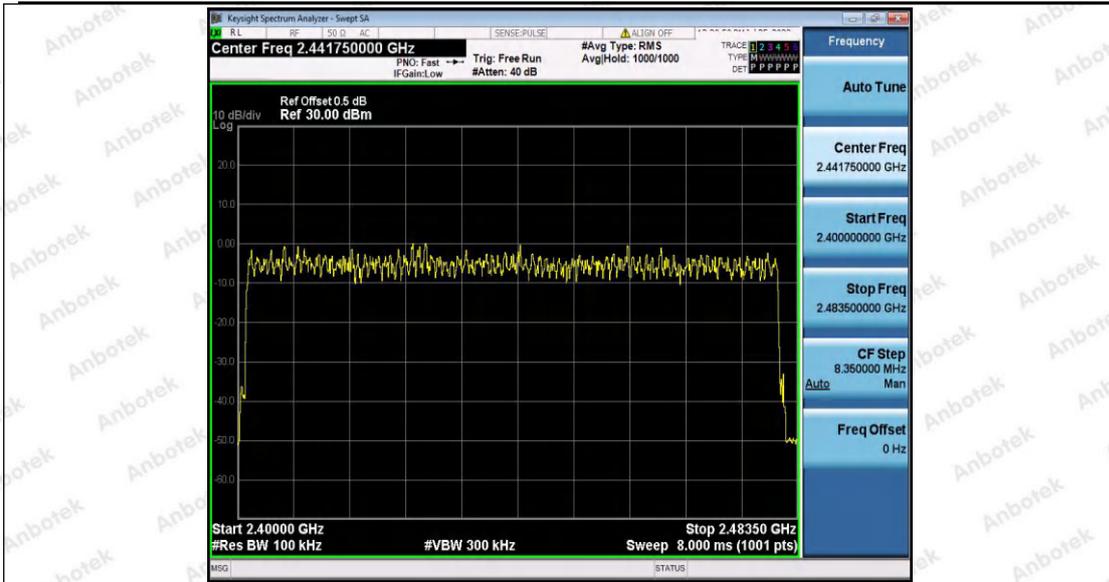
Appendix F: Number of hopping channels

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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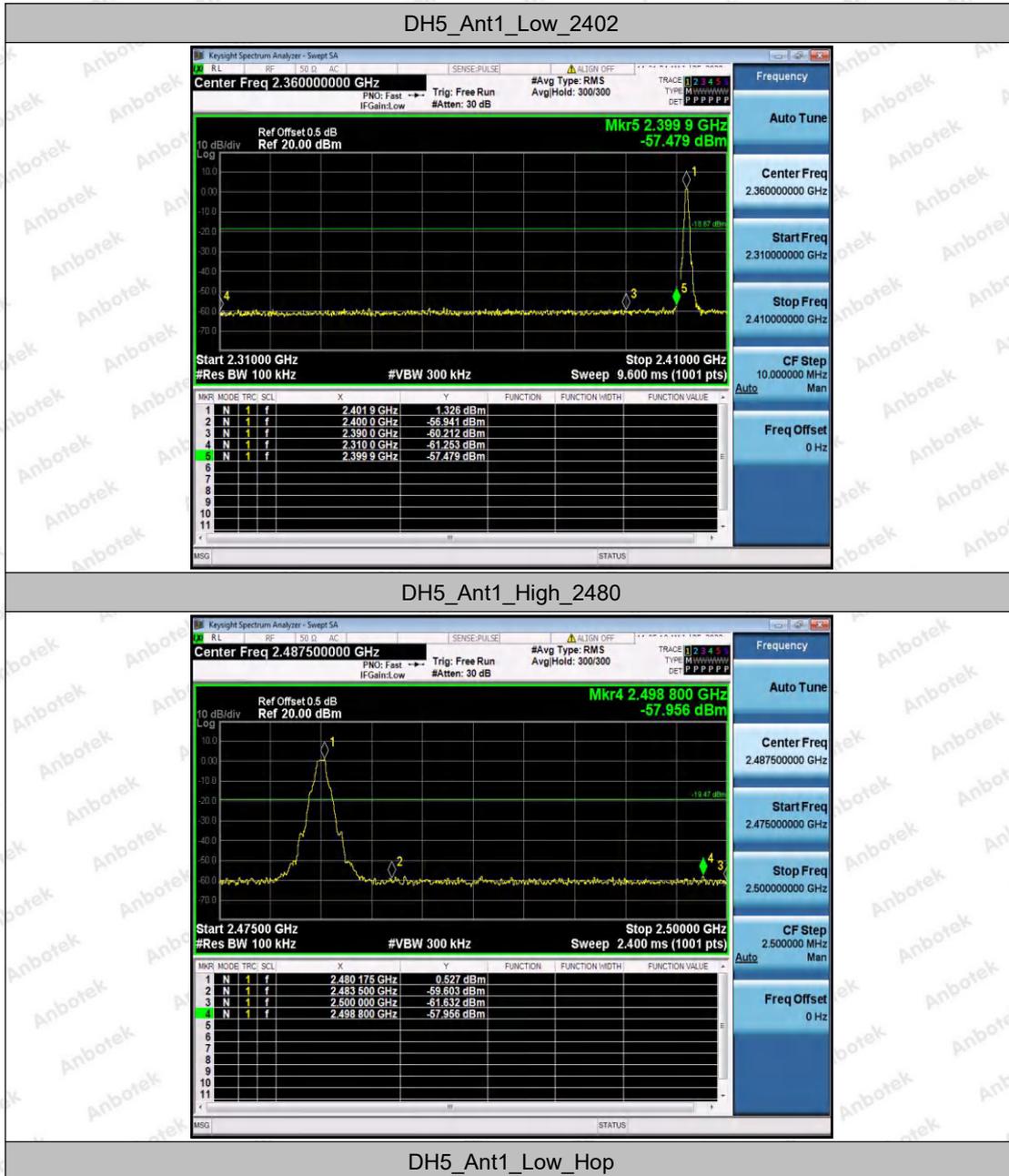
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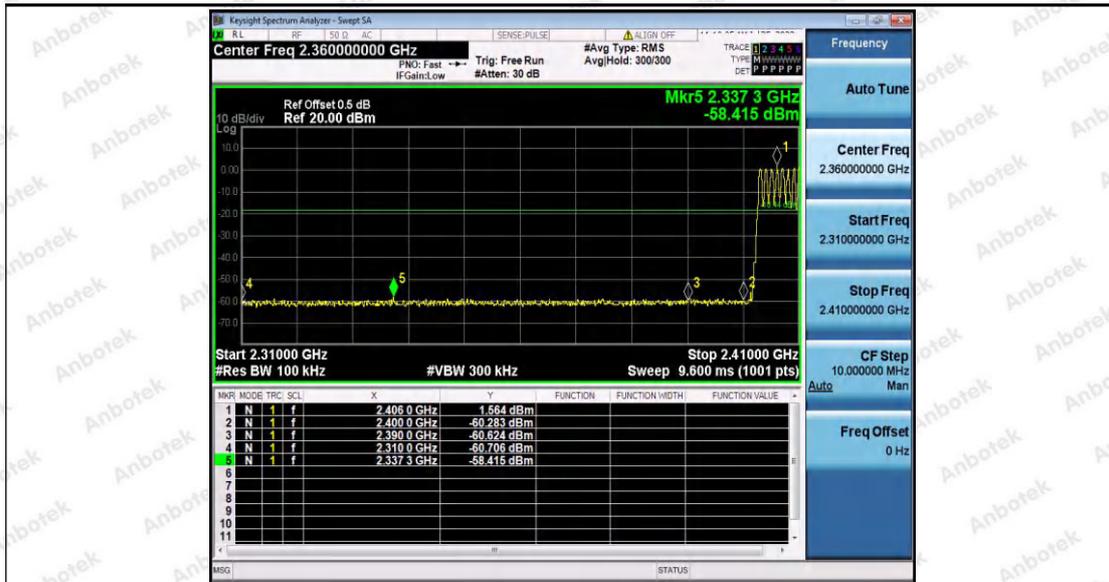
Appendix G: Band edge measurements

Test Result

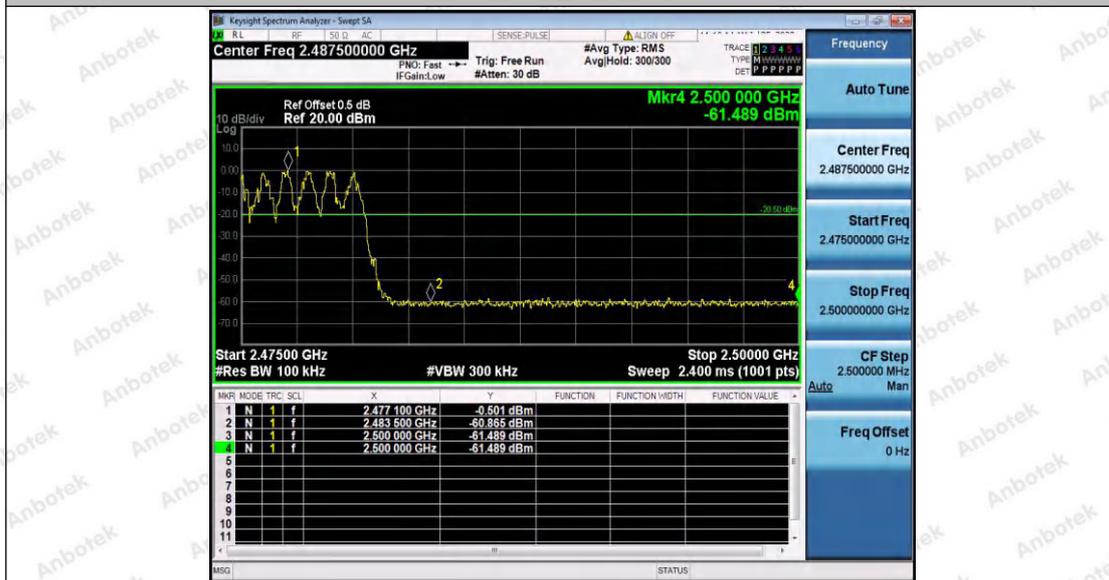
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	1.33	-57.48	≤-18.67	PASS
		High	2480	0.53	-57.96	≤-19.47	PASS
		Low	Hop	1.56	-58.42	≤-18.44	PASS
		High	Hop	-0.50	-61.49	≤-20.5	PASS
2DH5	Ant1	Low	2402	-1.62	-55.56	≤-21.62	PASS
		High	2480	-0.74	-58.68	≤-20.74	PASS
		Low	Hop	-0.67	-58.07	≤-20.67	PASS
		High	Hop	-0.98	-60.85	≤-20.98	PASS
3DH5	Ant1	Low	2402	-0.04	-54.19	≤-20.04	PASS
		High	2480	-0.96	-58.34	≤-20.96	PASS
		Low	Hop	0.10	-57.85	≤-19.9	PASS
		High	Hop	-3.67	-59.92	≤-23.67	PASS

Test Graphs

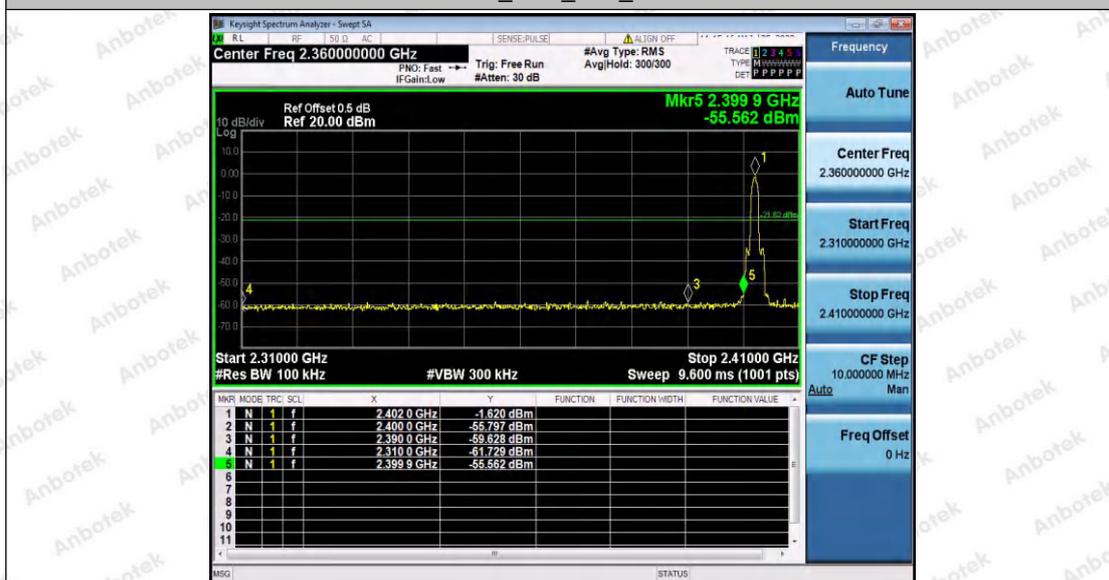




DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



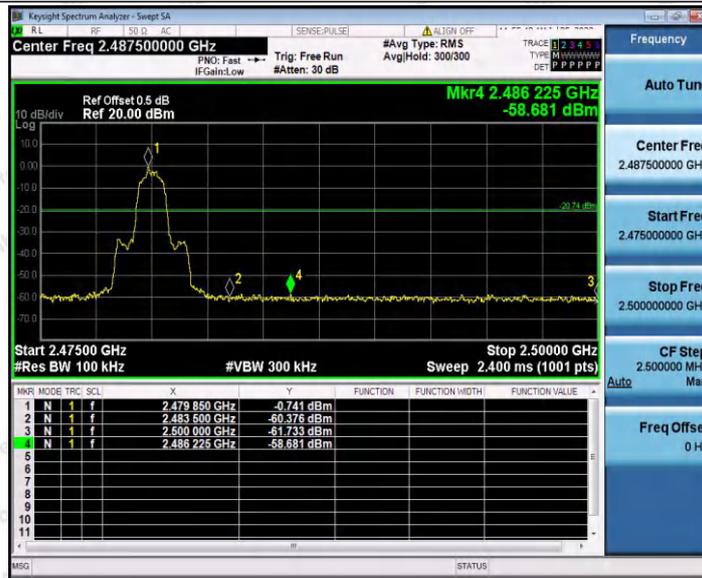
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2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



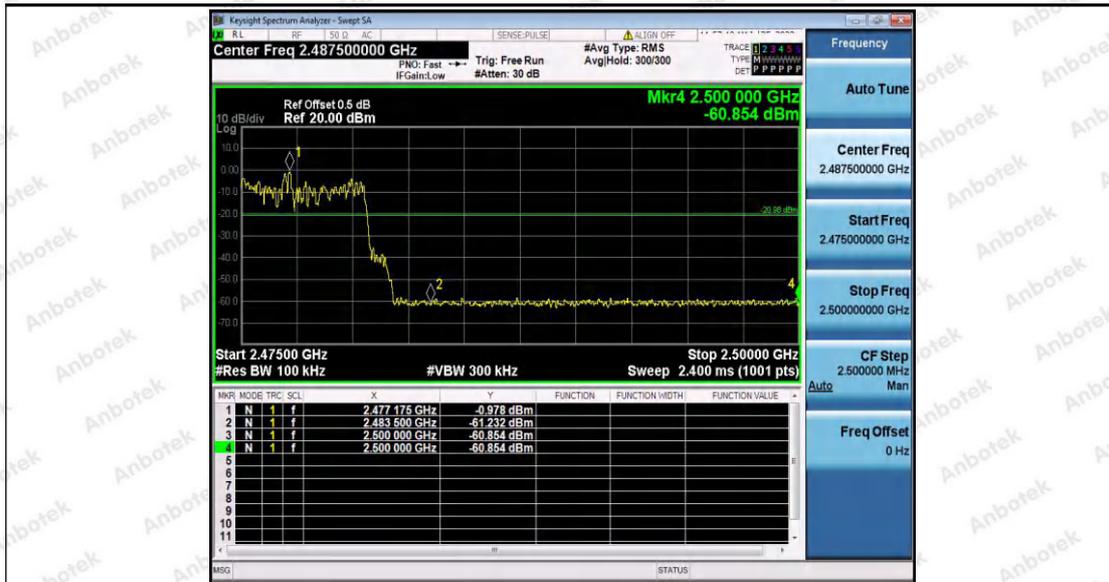
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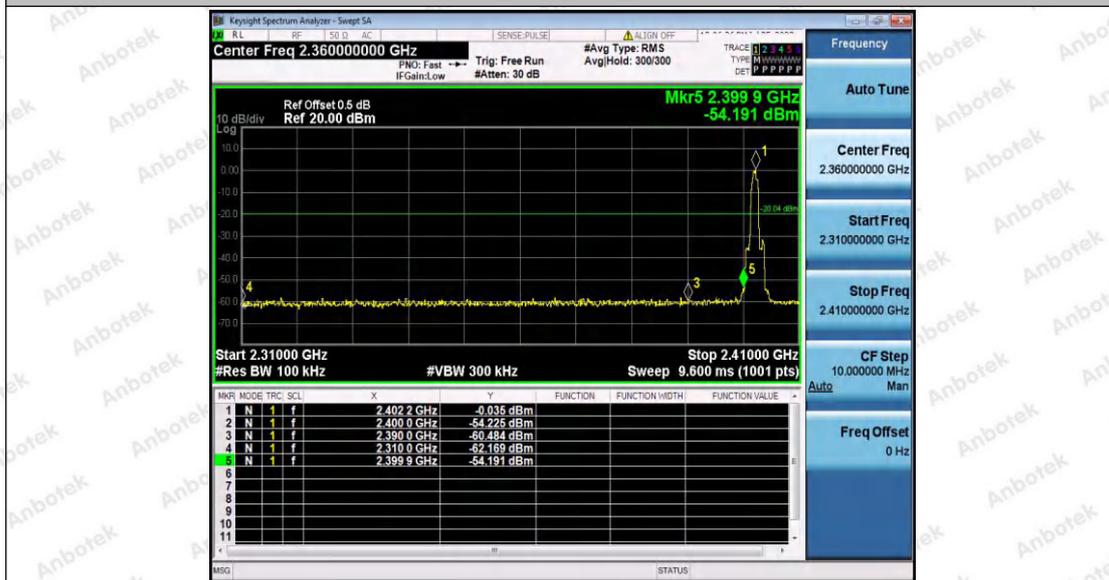
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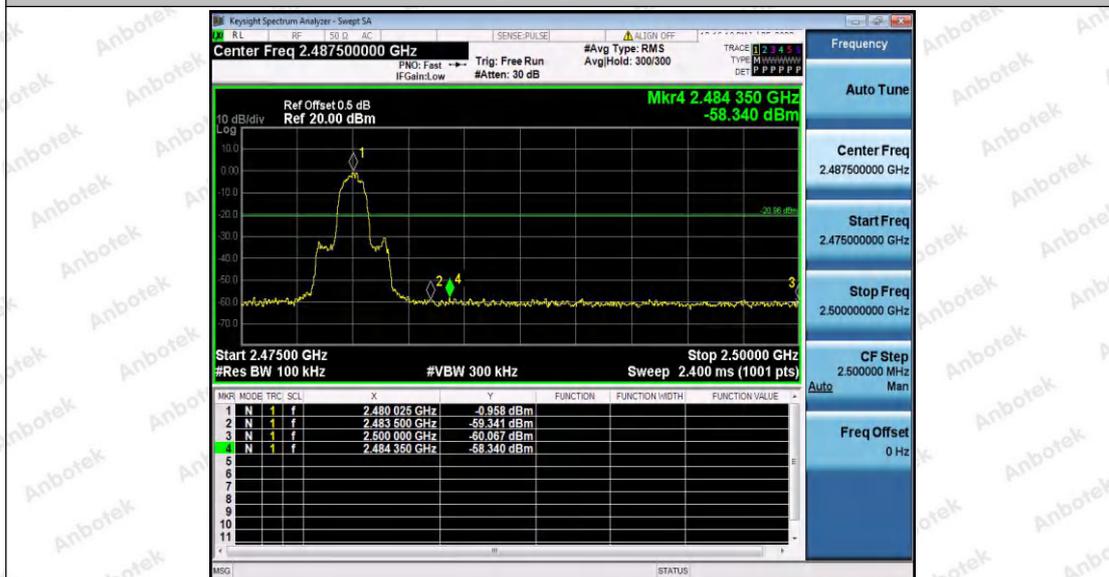
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3DH5_Ant1_Low_2402



3DH5_Ant1_High_2480



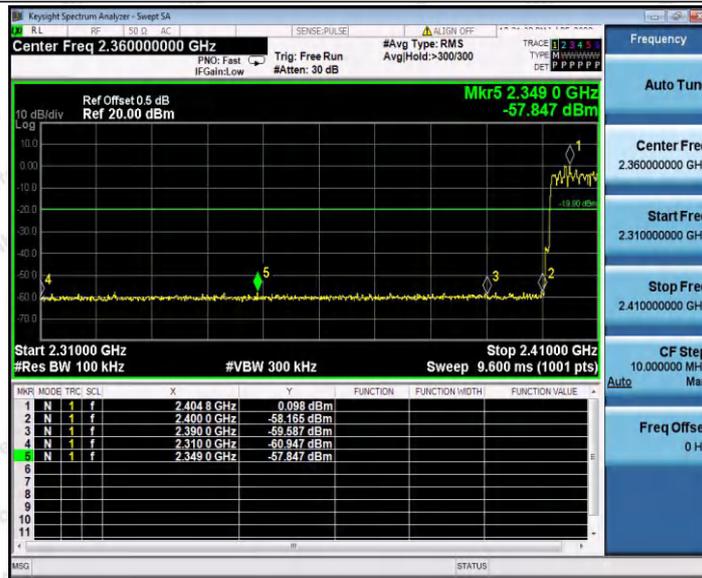
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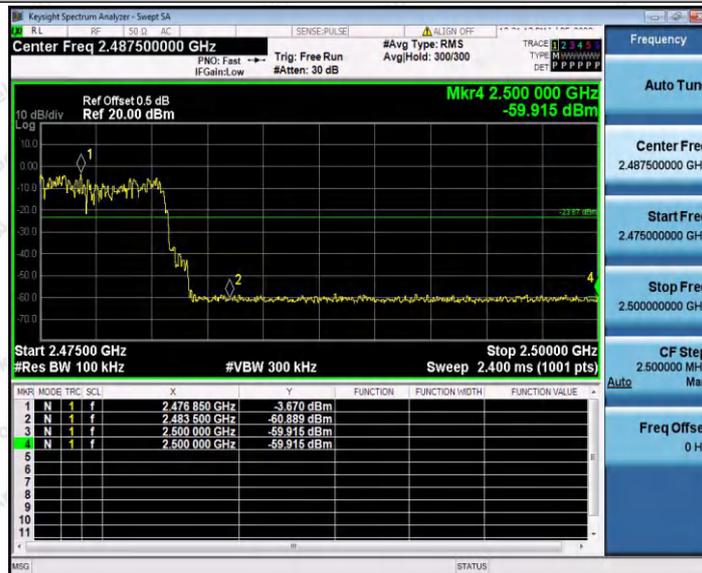
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3DH5_Ant1_Low_Hop



3DH5_Ant1_High_Hop



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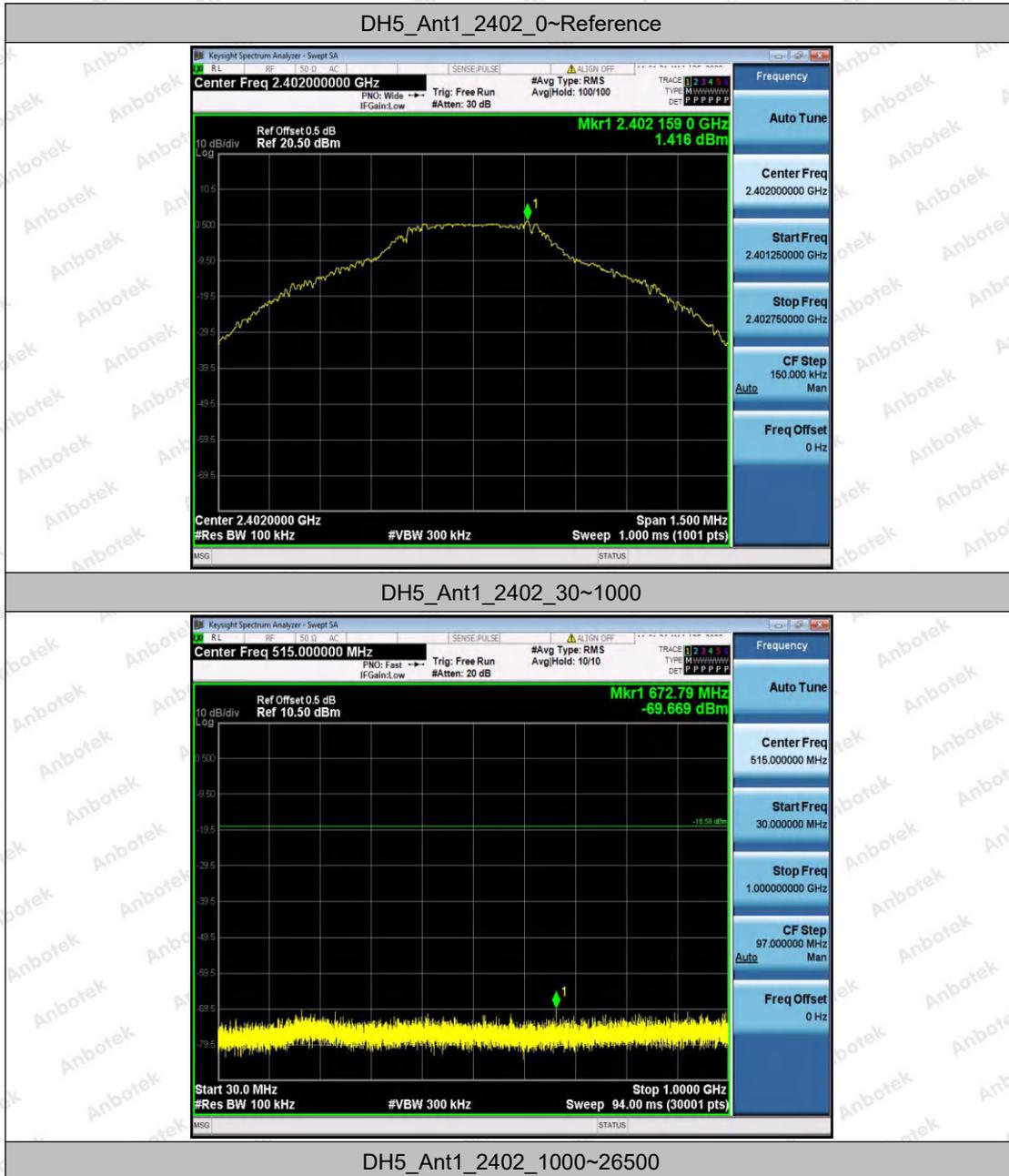
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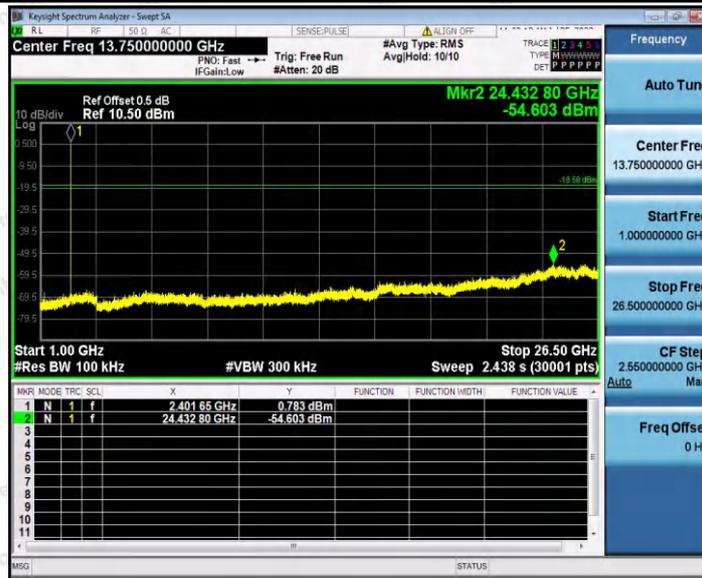
Appendix H: Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	1.42	1.42	---	PASS
			30~1000	1.42	-69.67	≤-18.58	PASS
			1000~26500	1.42	-54.6	≤-18.58	PASS
		2441	Reference	0.52	0.52	---	PASS
			30~1000	0.52	-70.18	≤-19.49	PASS
			1000~26500	0.52	-54.29	≤-19.49	PASS
		2480	Reference	0.49	0.49	---	PASS
			30~1000	0.49	-69.6	≤-19.51	PASS
			1000~26500	0.49	-54.16	≤-19.51	PASS
2DH5	Ant1	2402	Reference	0.12	0.12	---	PASS
			30~1000	0.12	-69.99	≤-19.88	PASS
			1000~26500	0.12	-53.58	≤-19.88	PASS
		2441	Reference	-0.35	-0.35	---	PASS
			30~1000	-0.35	-68.88	≤-20.35	PASS
			1000~26500	-0.35	-54.74	≤-20.35	PASS
		2480	Reference	-0.47	-0.47	---	PASS
			30~1000	-0.47	-69.9	≤-20.47	PASS
			1000~26500	-0.47	-54.41	≤-20.47	PASS
3DH5	Ant1	2402	Reference	0.36	0.36	---	PASS
			30~1000	0.36	-69.34	≤-19.64	PASS
			1000~26500	0.36	-54.05	≤-19.64	PASS
		2441	Reference	0.05	0.05	---	PASS
			30~1000	0.05	-69.95	≤-19.95	PASS
			1000~26500	0.05	-53.93	≤-19.95	PASS
		2480	Reference	-1.36	-1.36	---	PASS
			30~1000	-1.36	-70.52	≤-21.36	PASS
			1000~26500	-1.36	-53.59	≤-21.36	PASS

Test Graphs





DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



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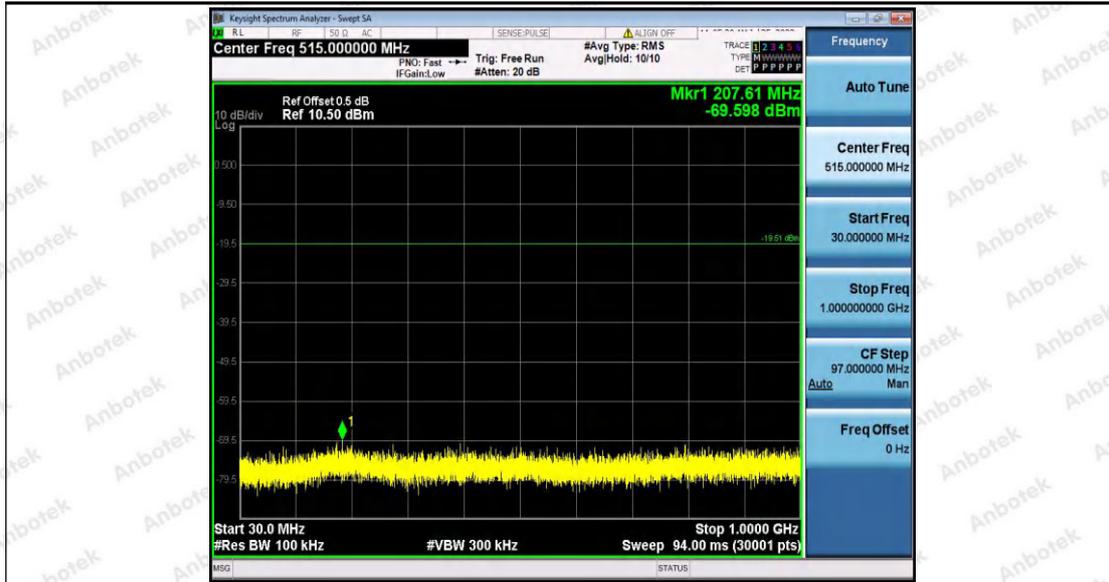


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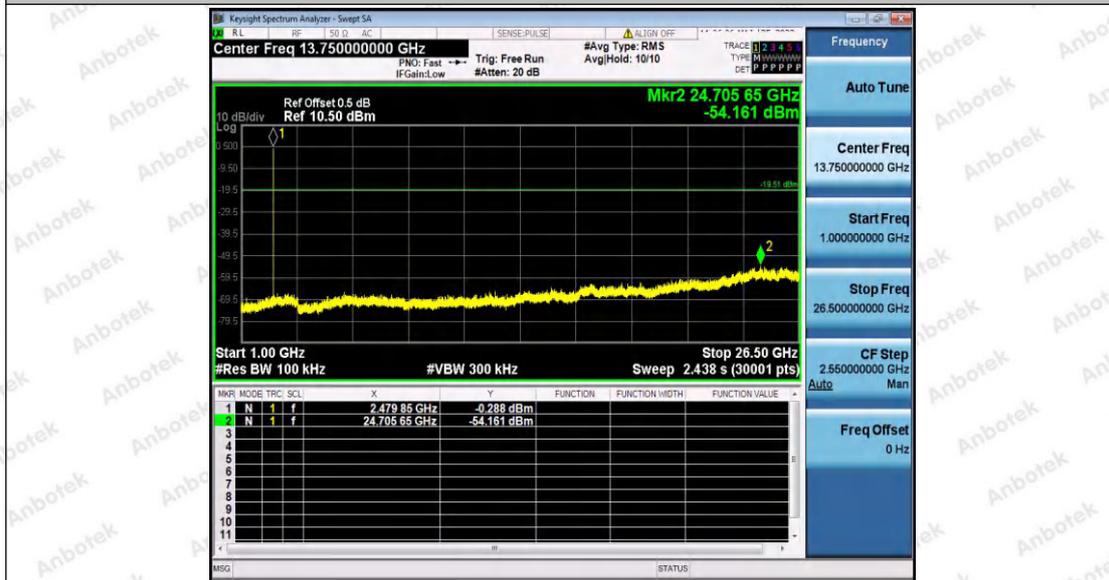
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DH5_Ant1_2480_1000~26500



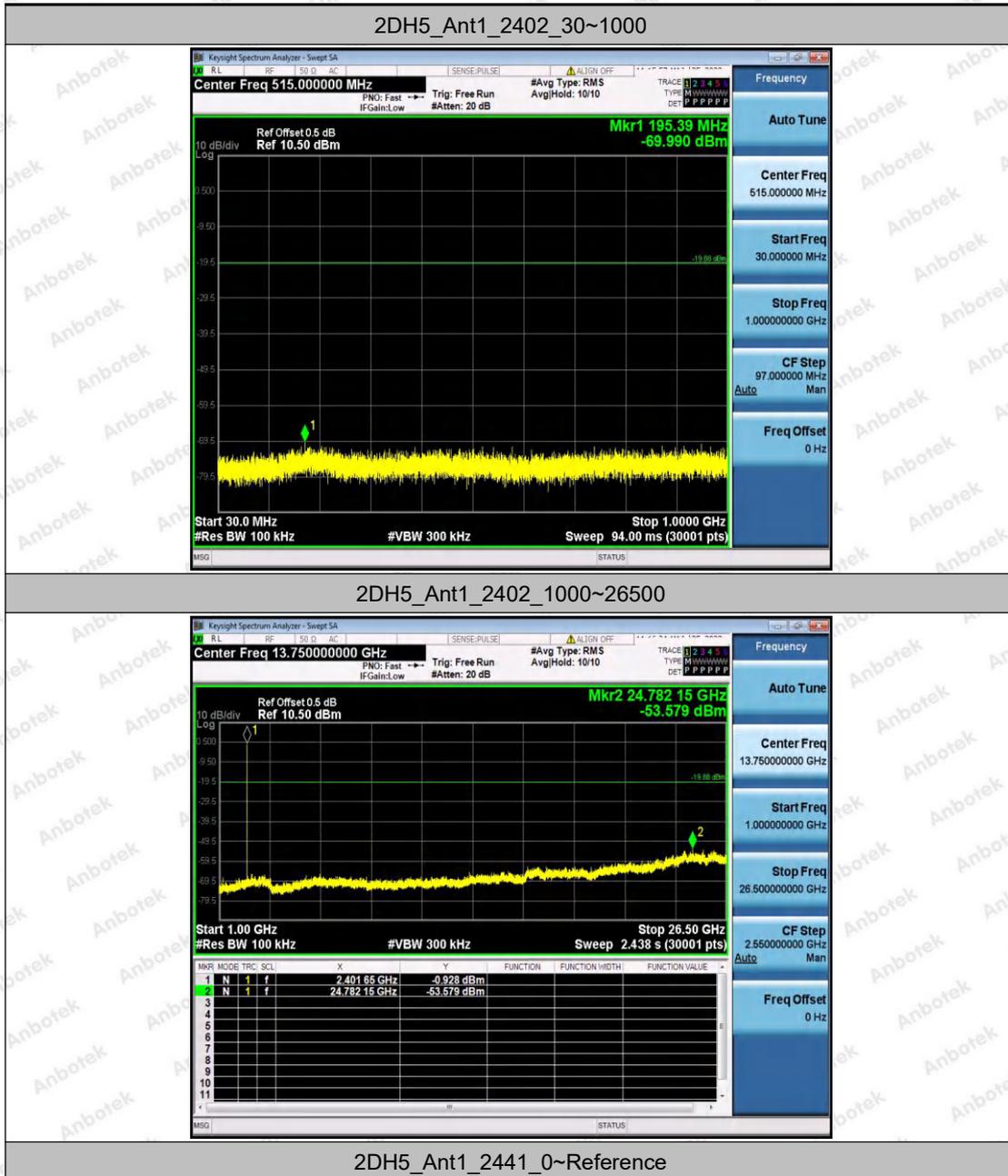
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2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

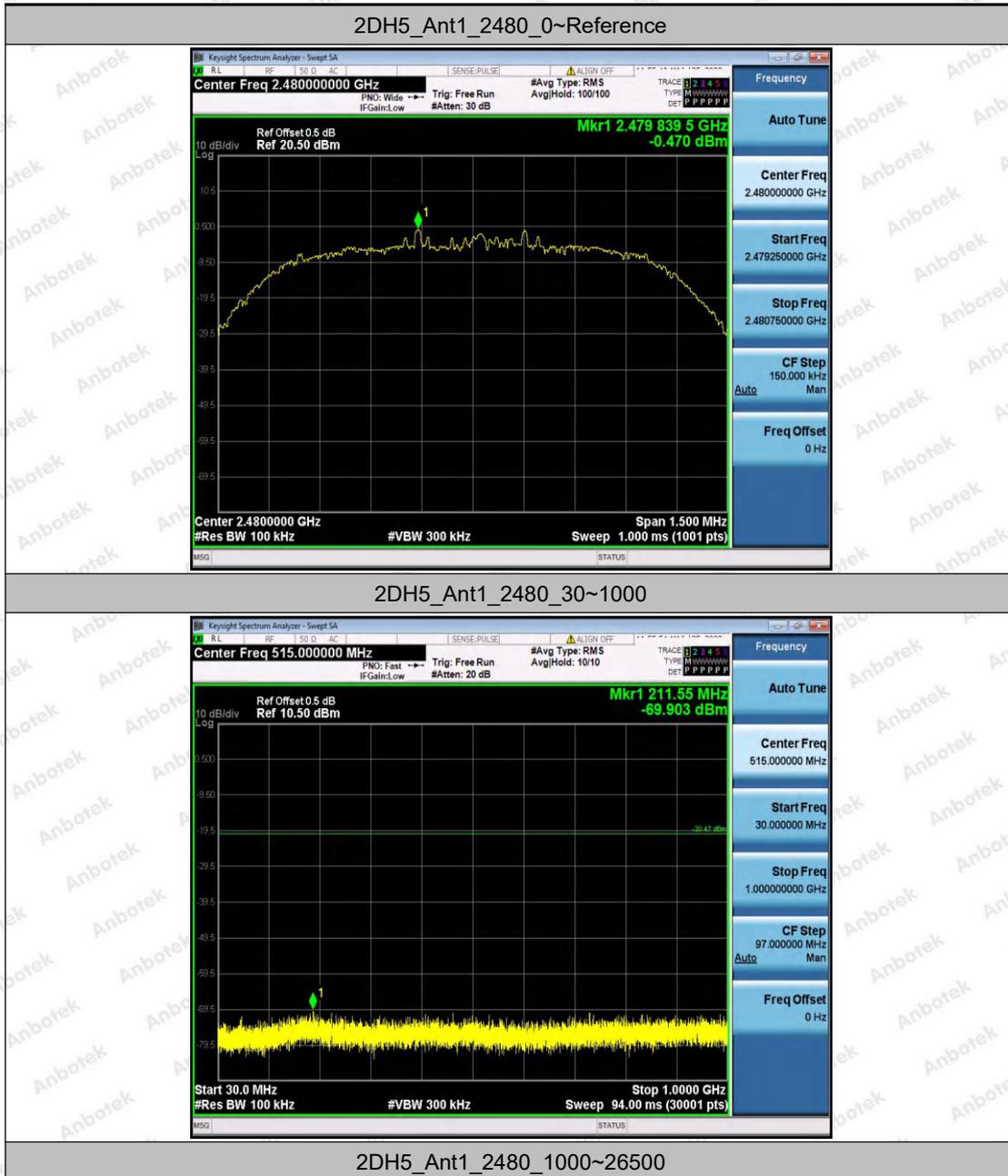


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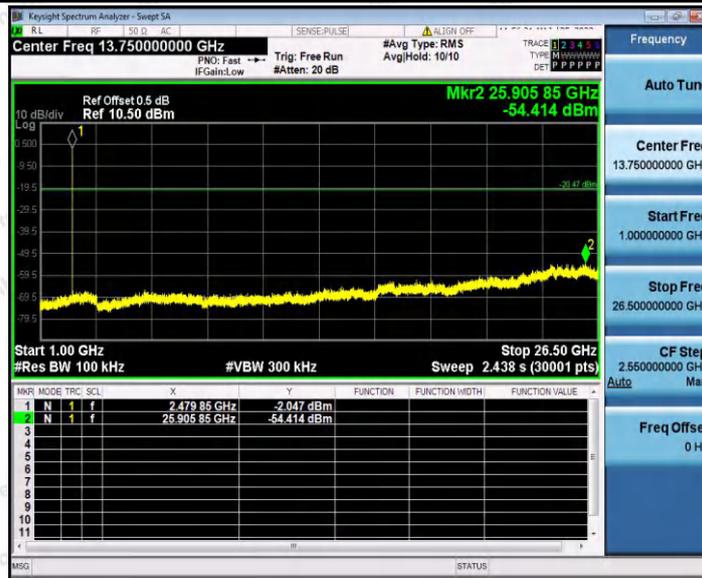
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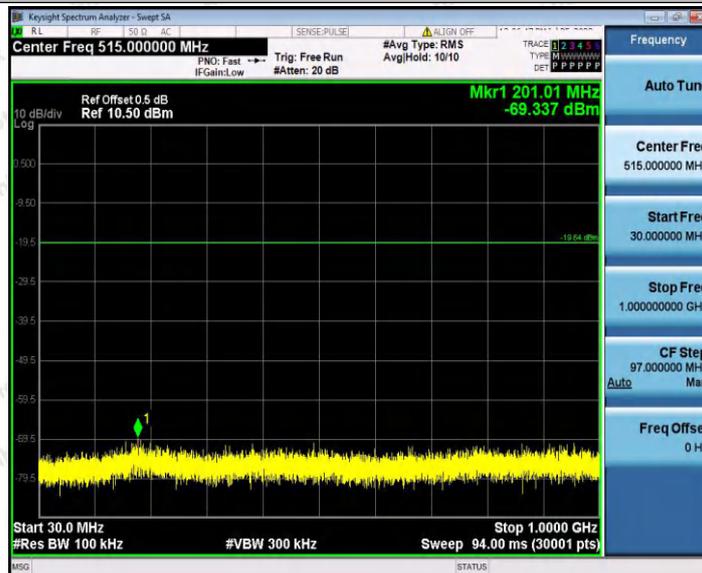
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3DH5_Ant1_2402_0~Reference



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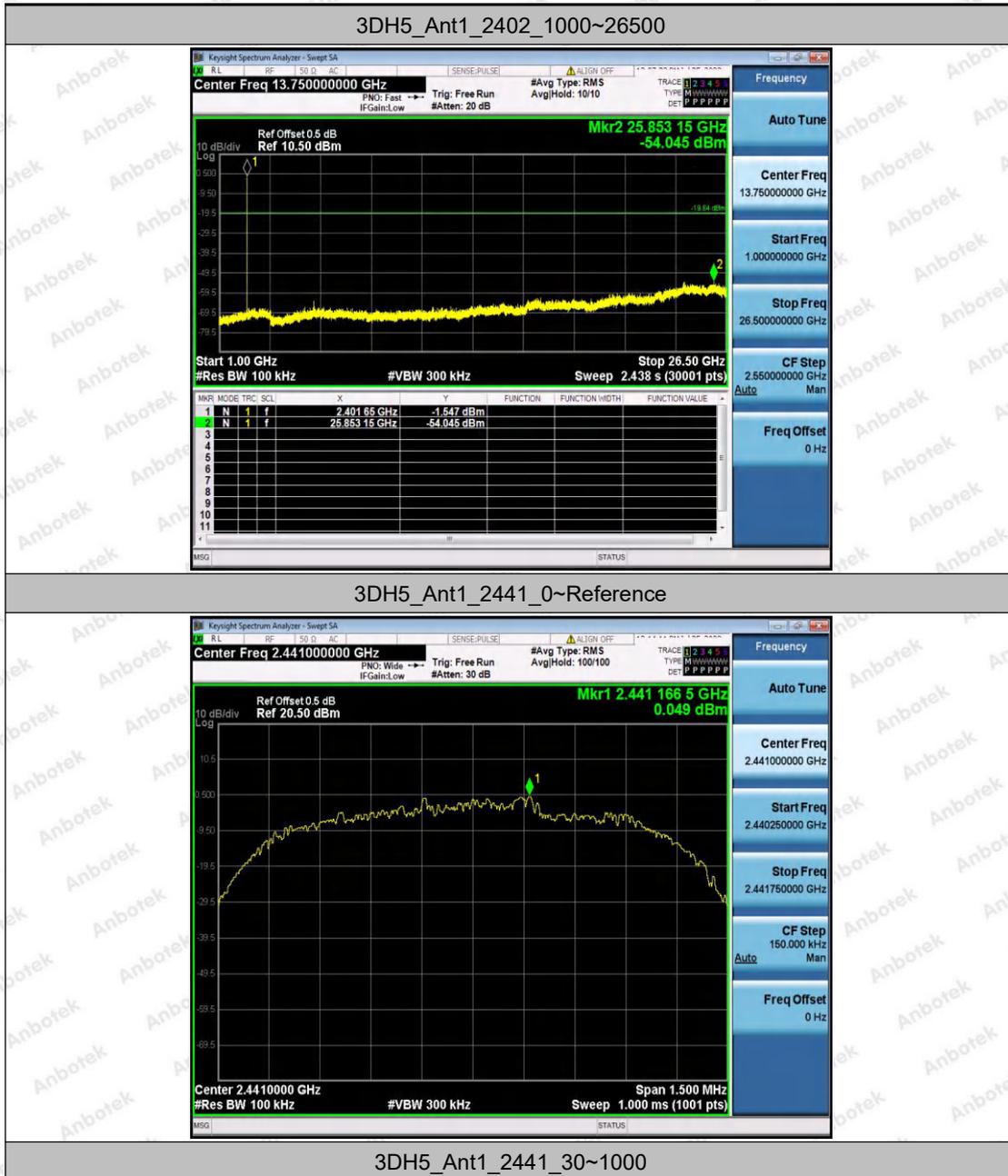


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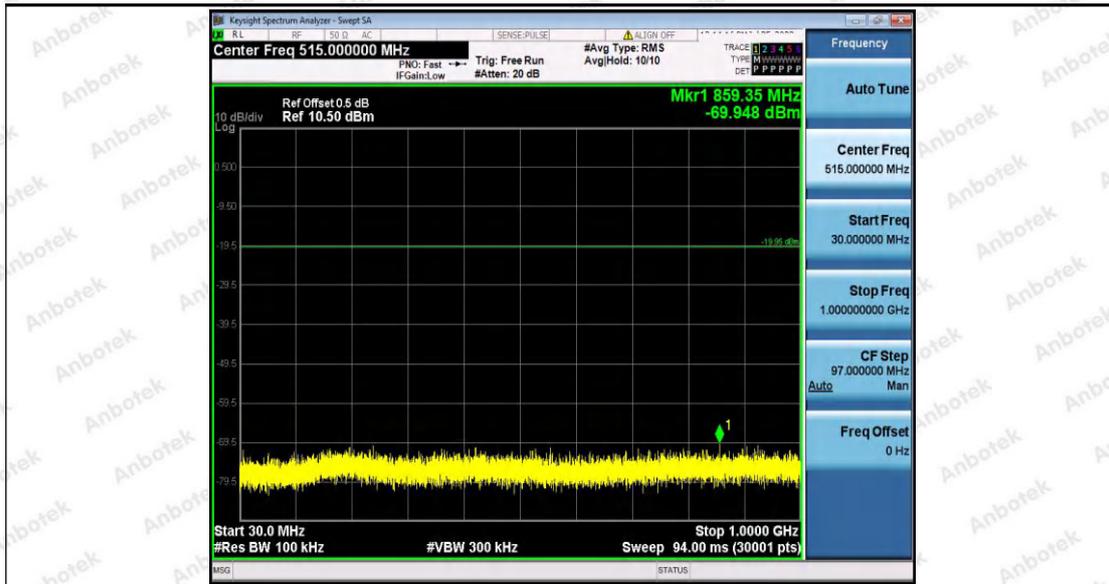


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3DH5_Ant1_2441_1000~26500



3DH5_Ant1_2480_0~Reference

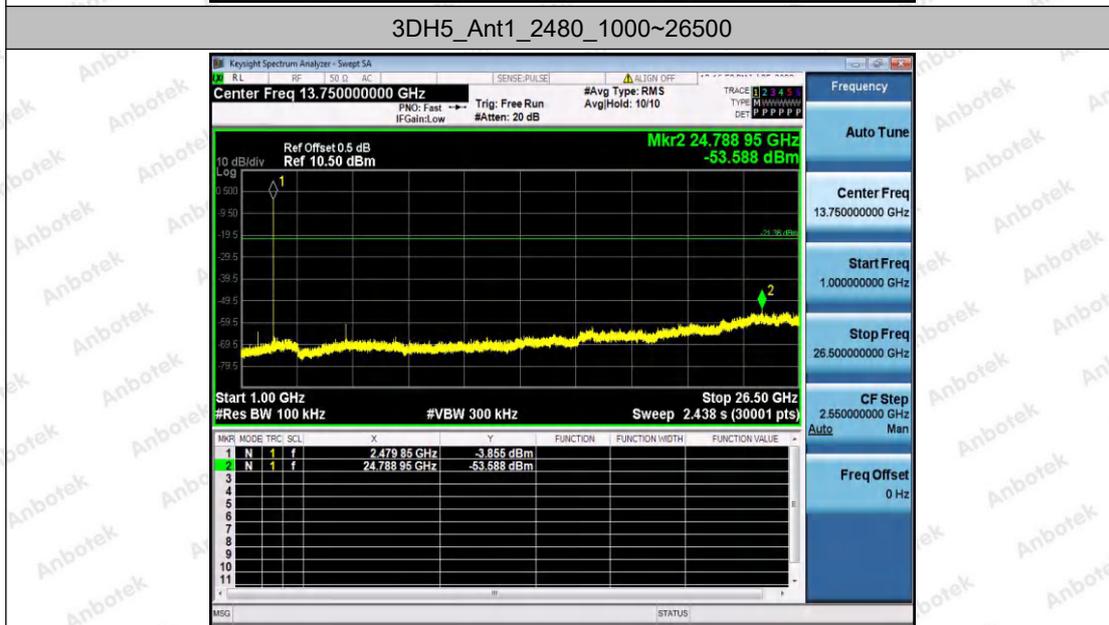
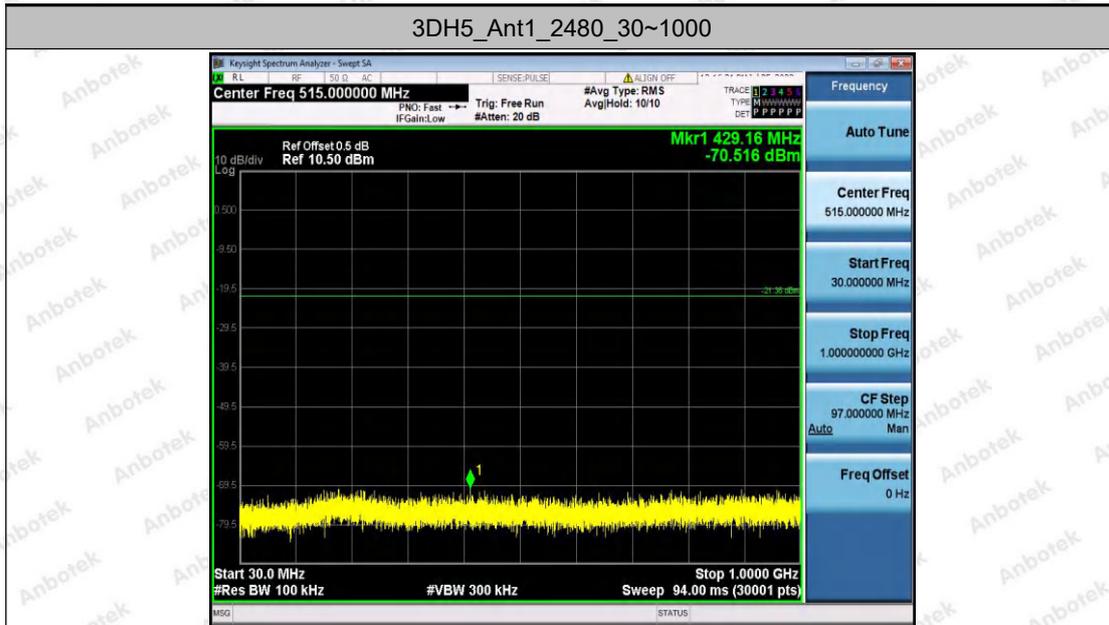


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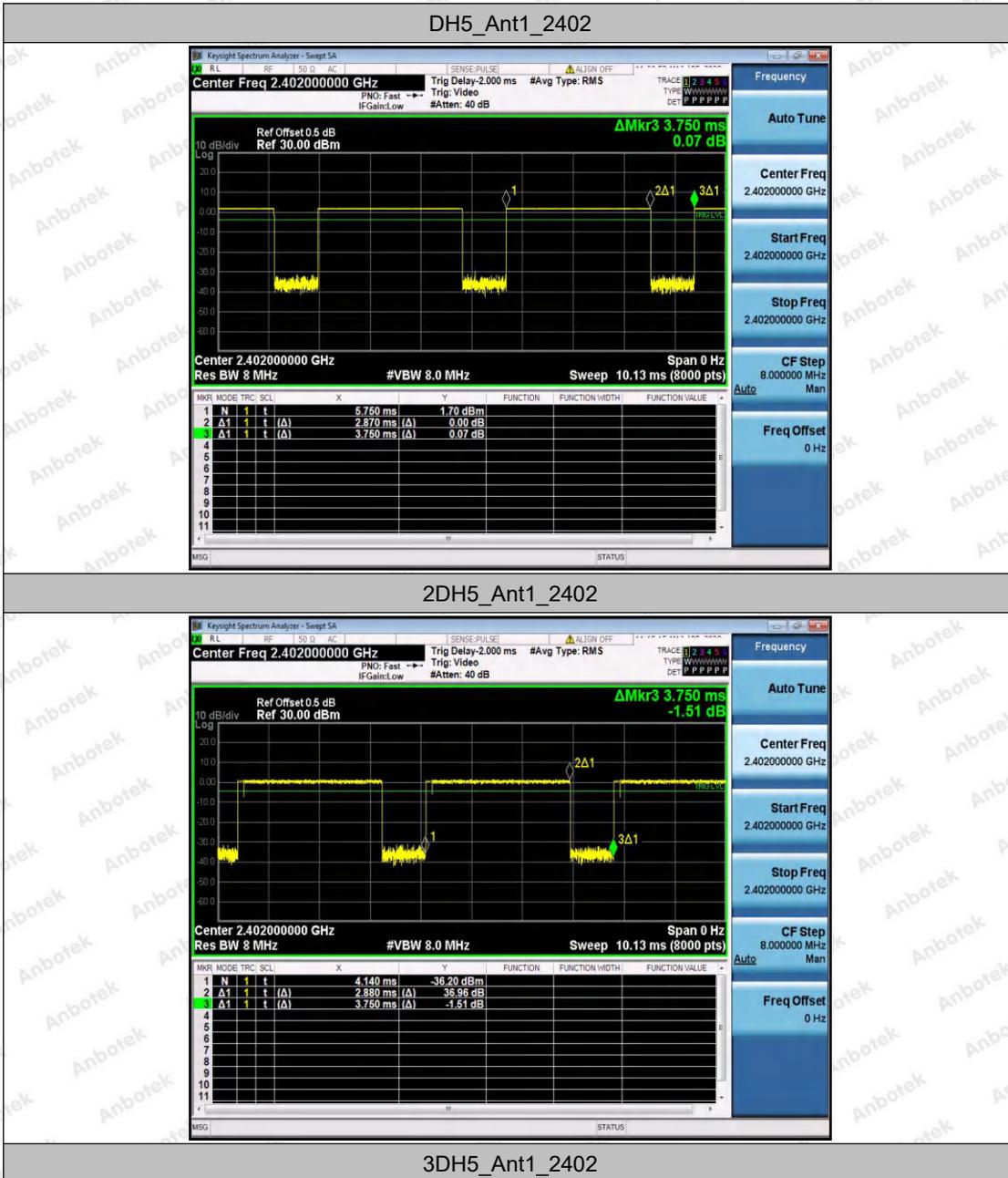
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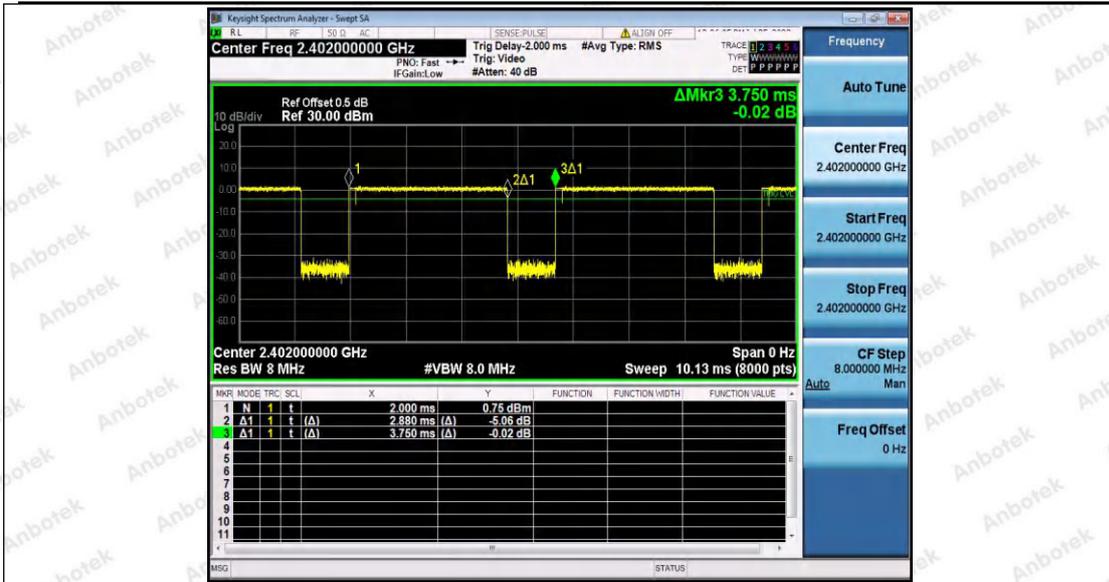
Appendix I: Duty Cycle

Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	0.765 3	76.53	1.16	---	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---