

Appendix Test Data

Report No.:	18220WC10166101	Test Date:	2021.7.28
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.4C°	Relative Humidity:	56 %
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	0.936	2401.538	2402.474	---	PASS
		2441	0.891	2440.538	2441.429	---	PASS
		2480	0.891	2479.541	2480.432	---	PASS
2DH5	Ant1	2402	1.287	2401.343	2402.630	---	PASS
		2441	1.293	2440.340	2441.633	---	PASS
		2480	1.311	2479.340	2480.651	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



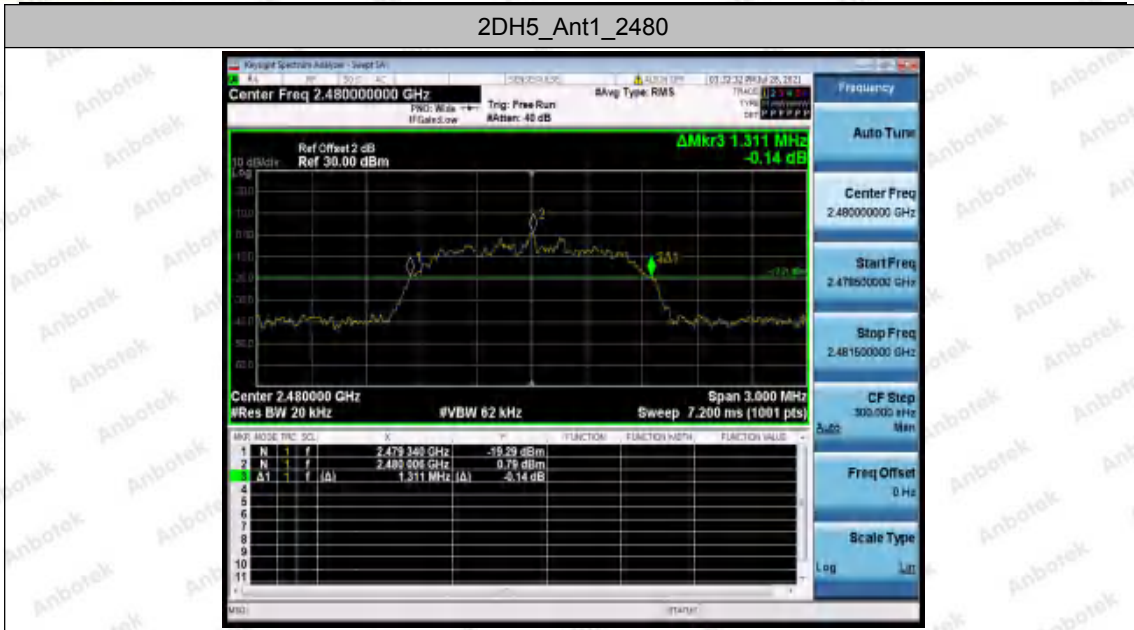
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2DH5_Ant1_2480



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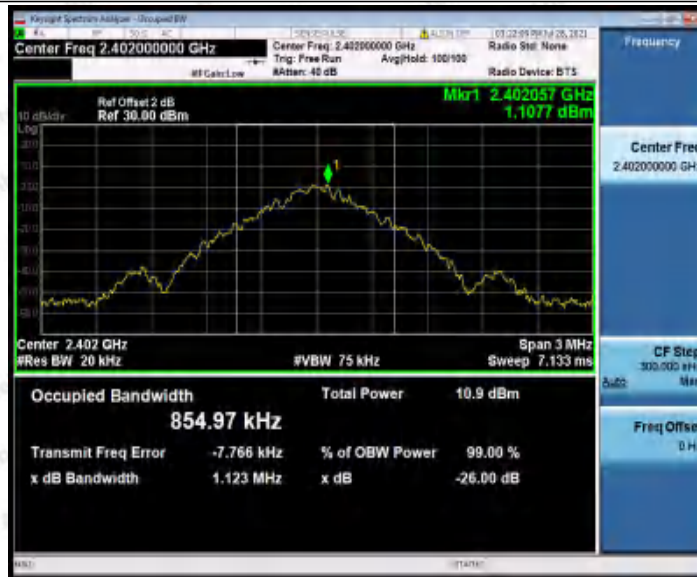
Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.85497	2401.565	2402.420	---	PASS
		2441	0.84500	2440.568	2441.413	---	PASS
		2480	0.84426	2479.570	2480.414	---	PASS
2DH5	Ant1	2402	1.2081	2401.392	2402.600	---	PASS
		2441	1.1887	2440.401	2441.590	---	PASS
		2480	1.1978	2479.396	2480.594	---	PASS

Test Graphs

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441



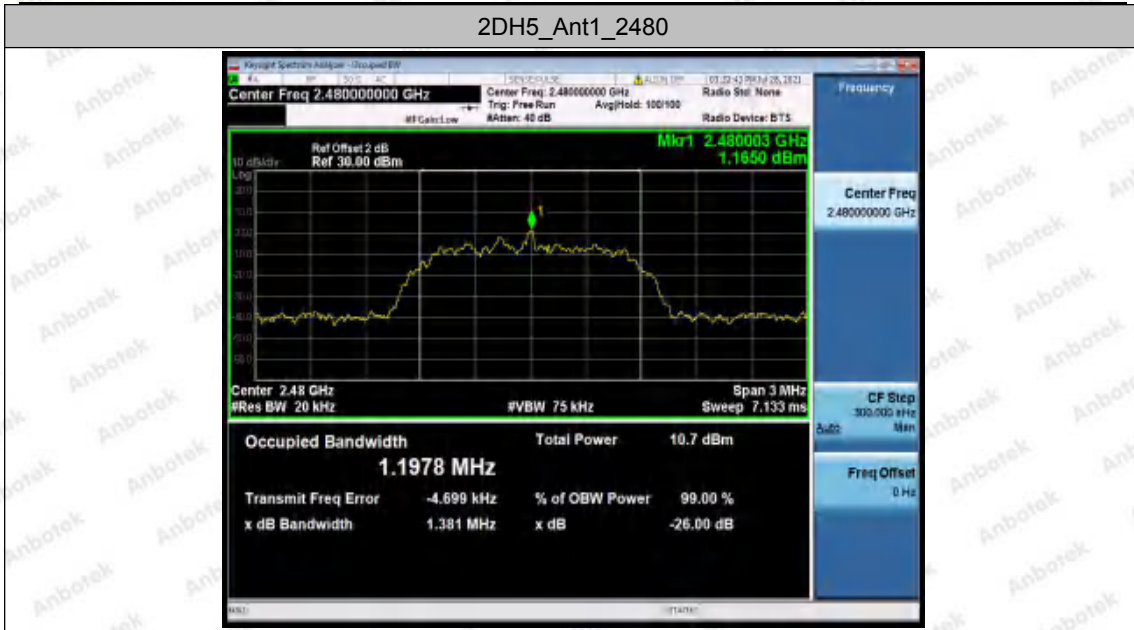
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2DH5_Ant1_2480



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Appendix C: Maximum conducted output power

Test Result

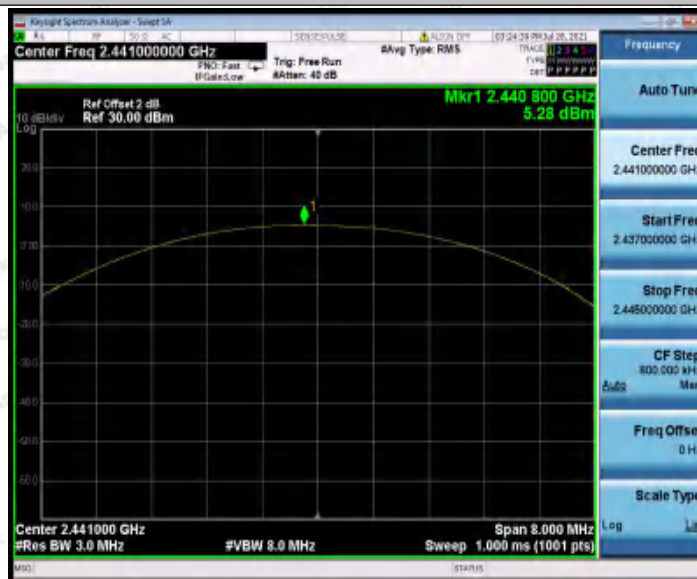
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	4.79	<=20.97	PASS
		2441	5.28	<=20.97	PASS
		2480	4.91	<=20.97	PASS
2DH5	Ant1	2402	5.48	<=20.97	PASS
		2441	5.99	<=20.97	PASS
		2480	5.61	<=20.97	PASS

Test Graphs

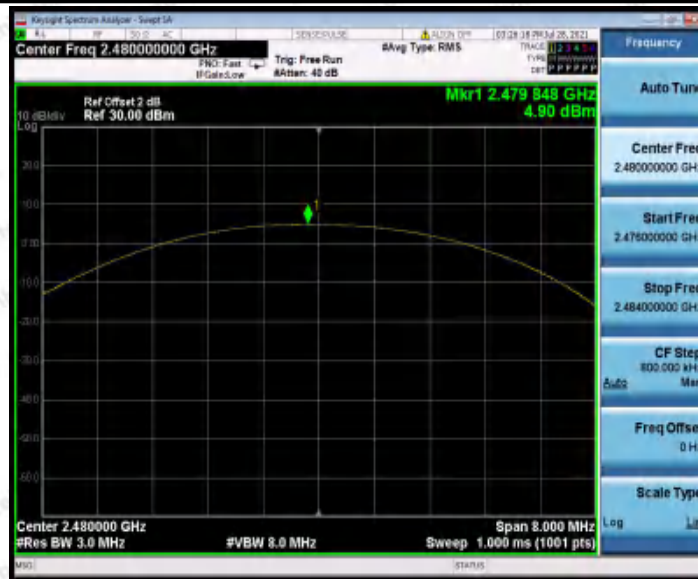
DH5_Ant1_2402



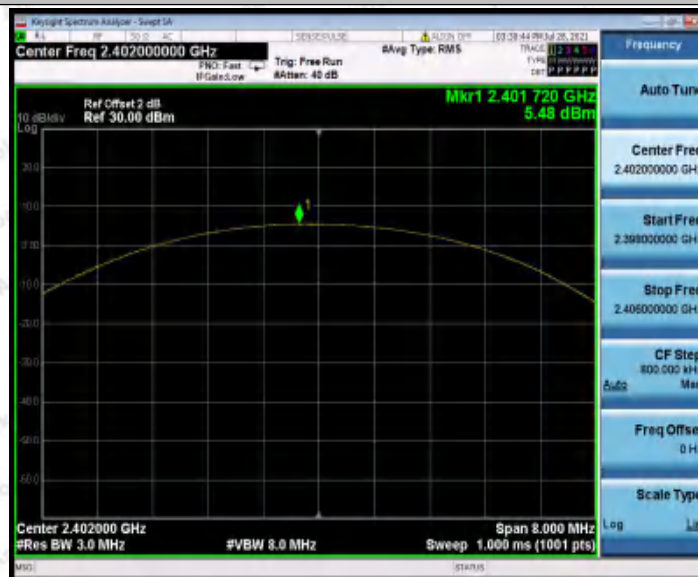
DH5_Ant1_2441



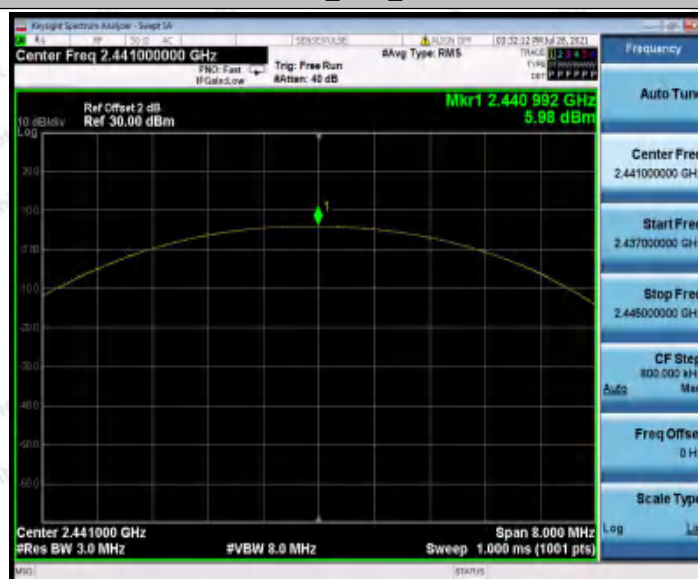
DH5_Ant1_2480



2Dh5_Ant1_2402



2Dh5_Ant1_2441



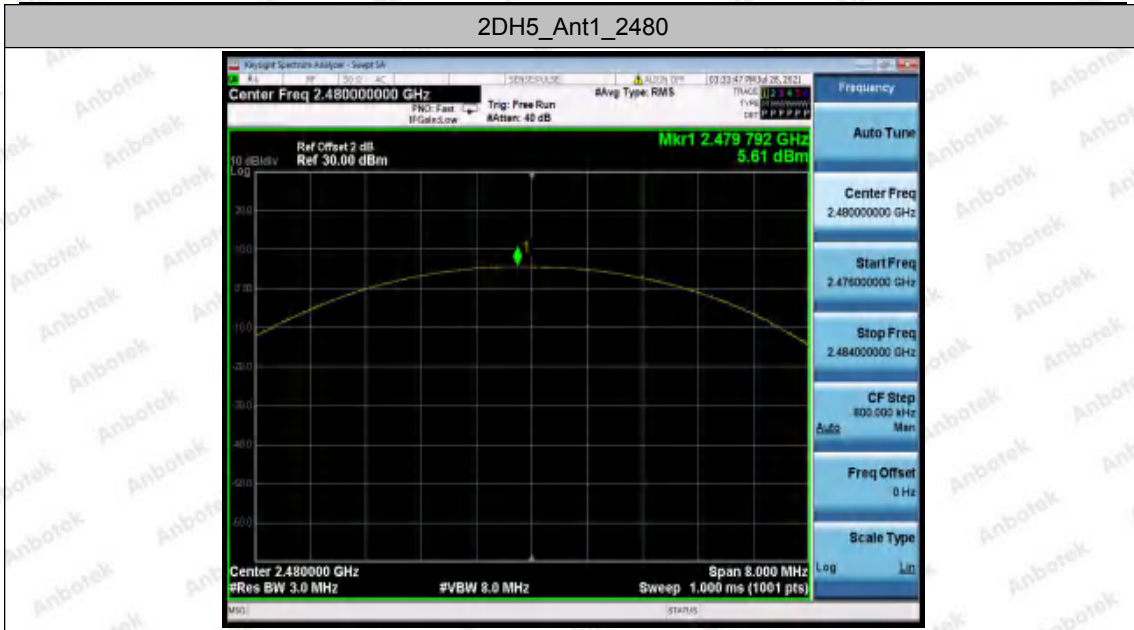
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2DH5_Ant1_2480



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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.148	≥ 0.936	PASS
2DH5	Ant1	Hop	0.982	≥ 0.874	PASS

Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop

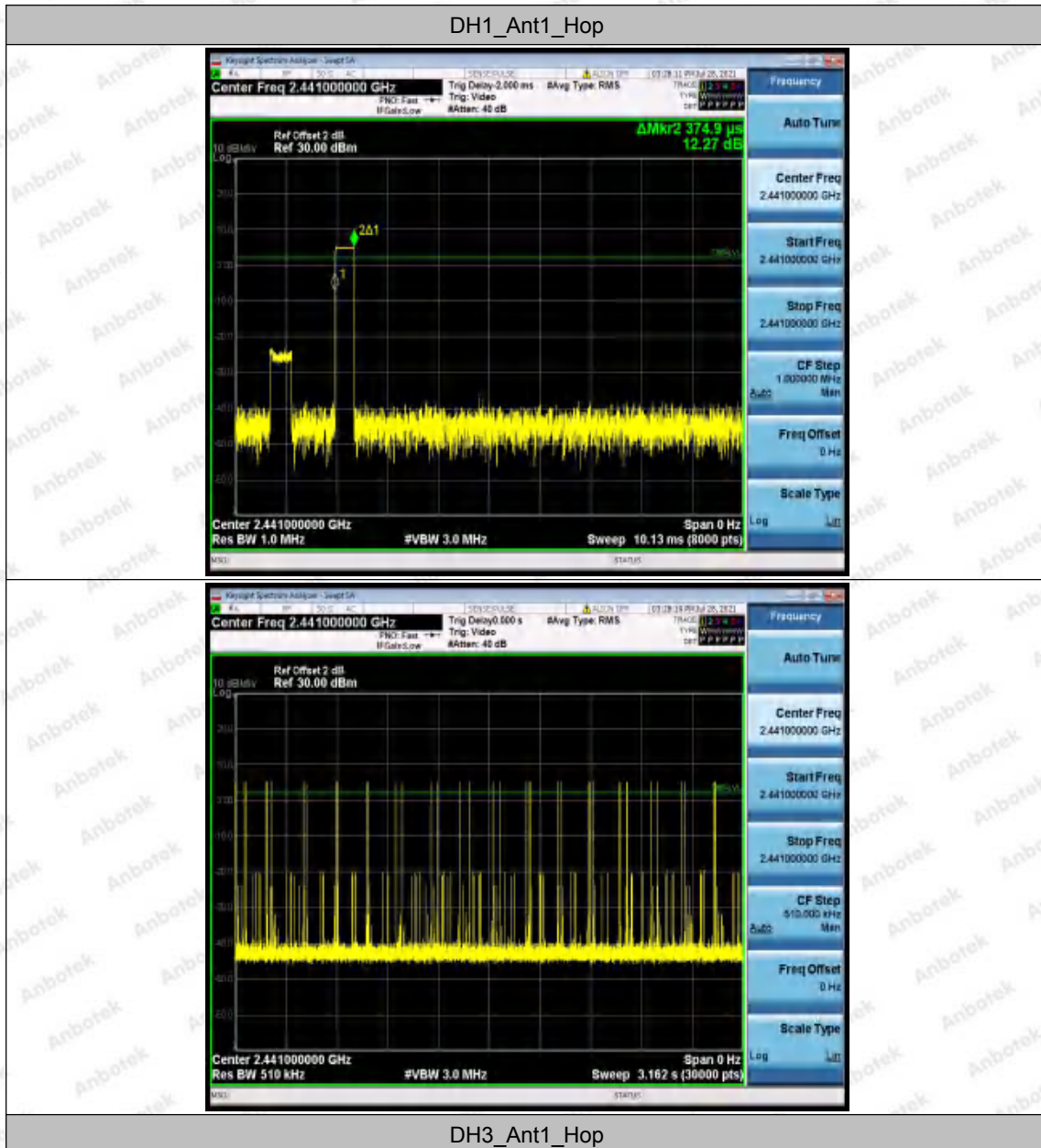


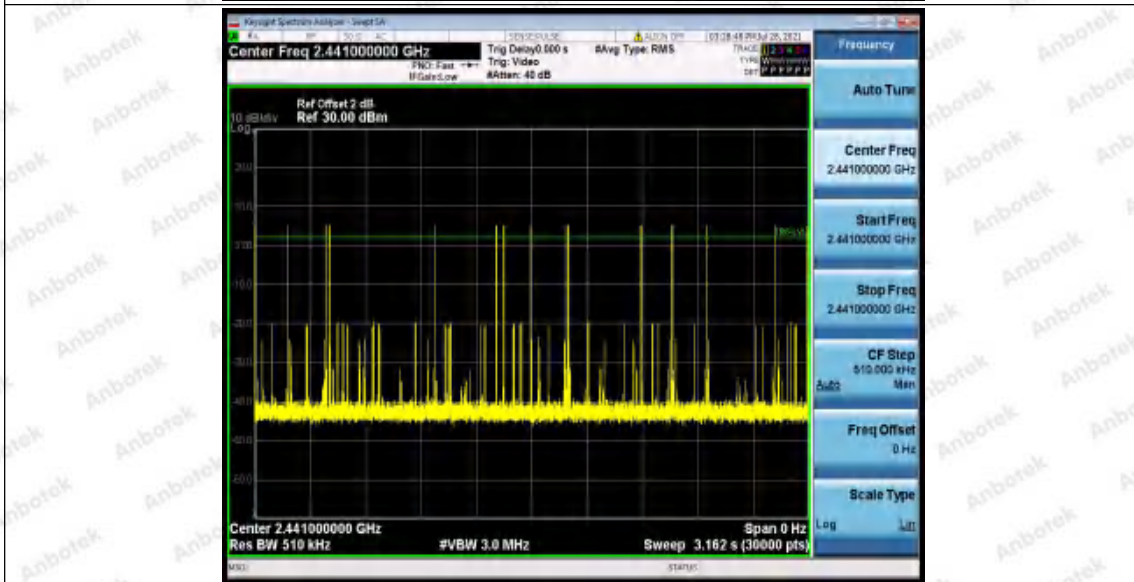
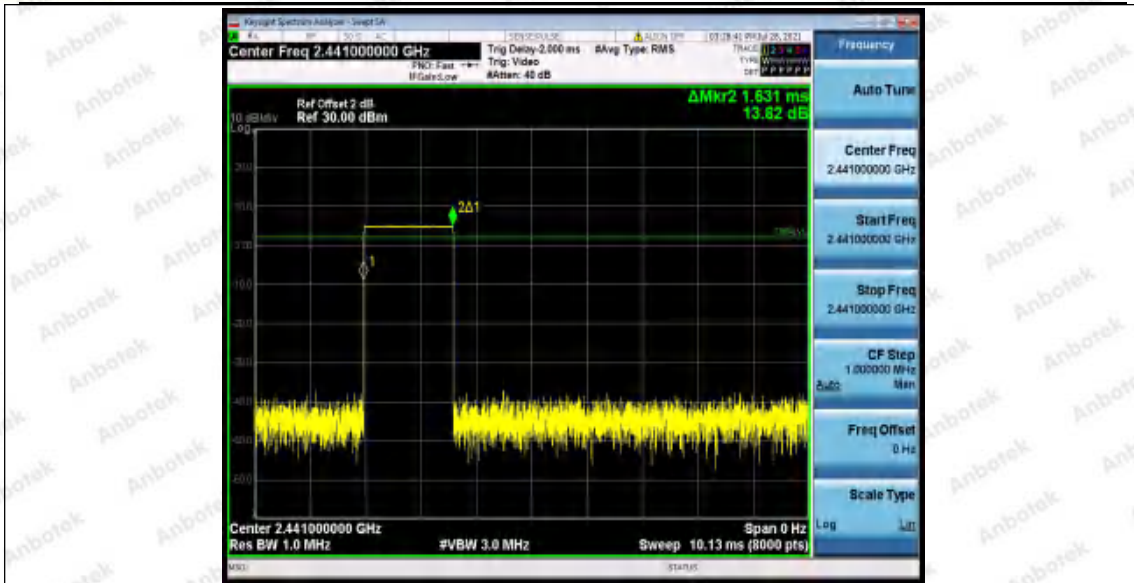
Appendix E: Time of occupancy

Test Result

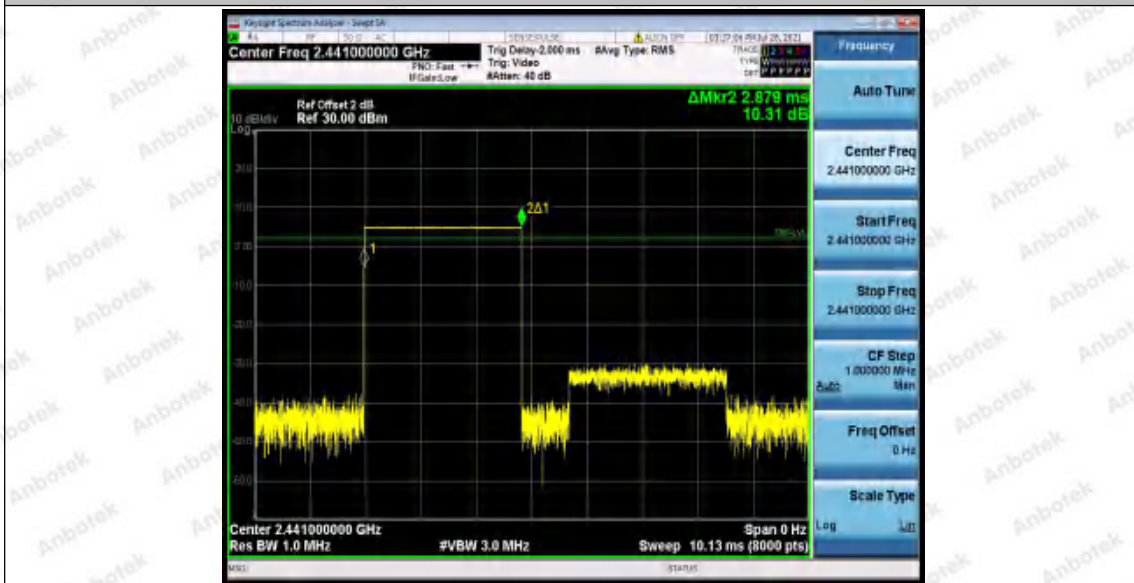
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	320	0.12	<=0.4	PASS
DH3	Ant1	Hop	1.63	160	0.261	<=0.4	PASS
DH5	Ant1	Hop	2.88	130	0.374	<=0.4	PASS
2DH1	Ant1	Hop	0.38	330	0.127	<=0.4	PASS
2DH3	Ant1	Hop	1.64	150	0.245	<=0.4	PASS
2DH5	Ant1	Hop	2.89	100	0.289	<=0.4	PASS

Test Graphs





DH5_Ant1_Hop

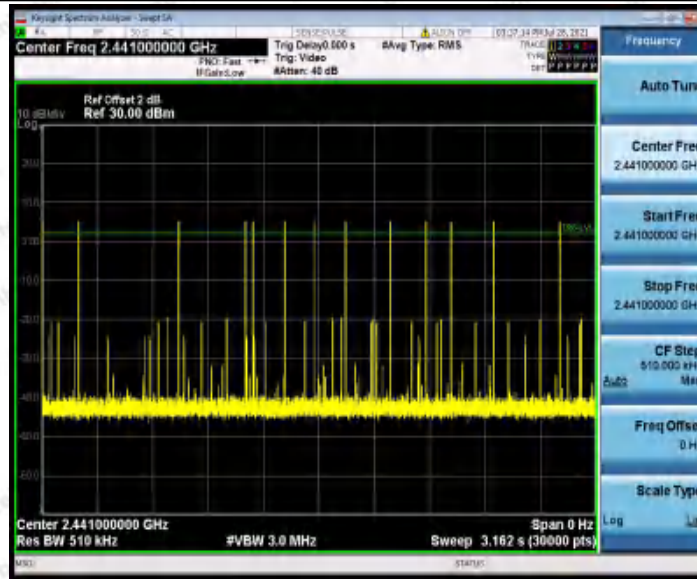


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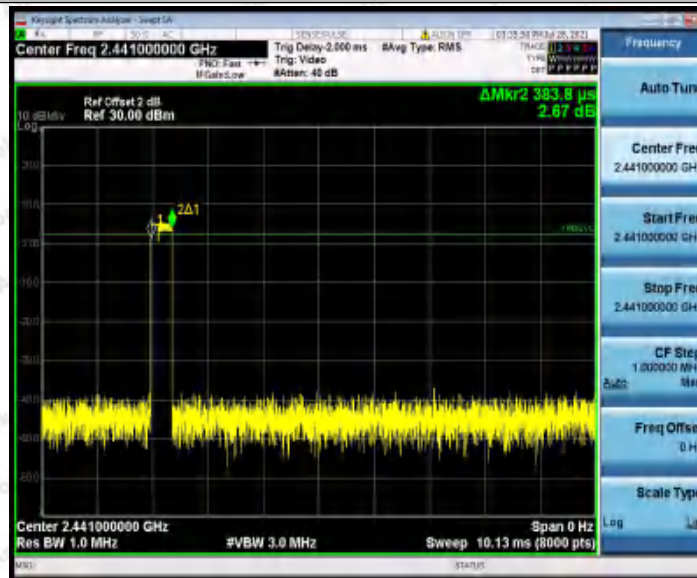
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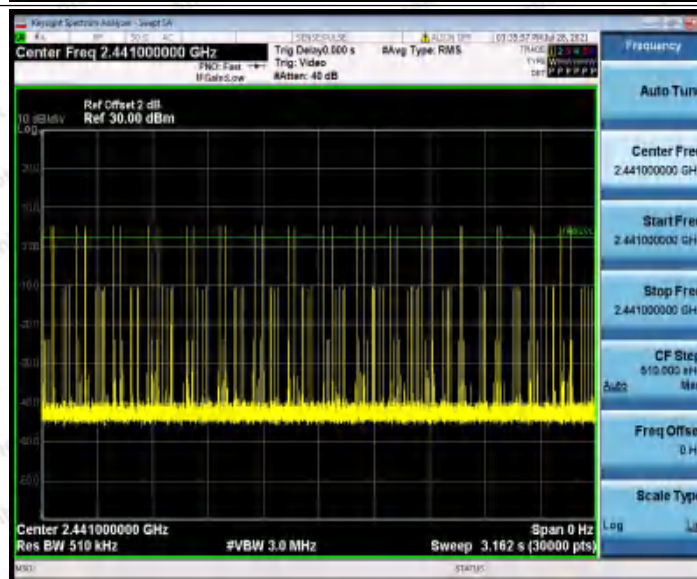
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2DH1_Ant1_Hop



2DH3_Ant1_Hop

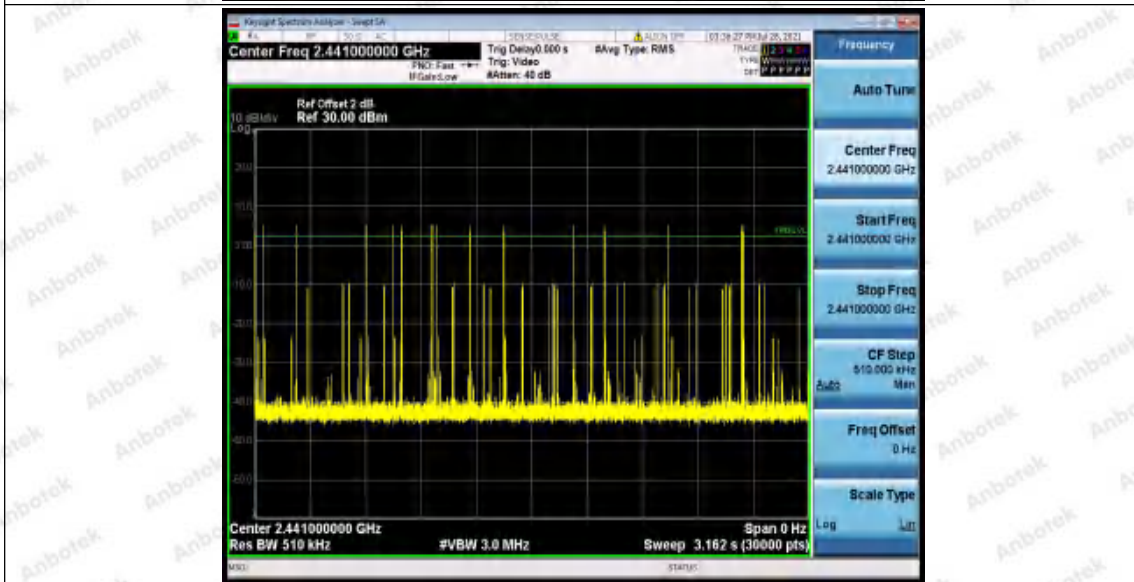


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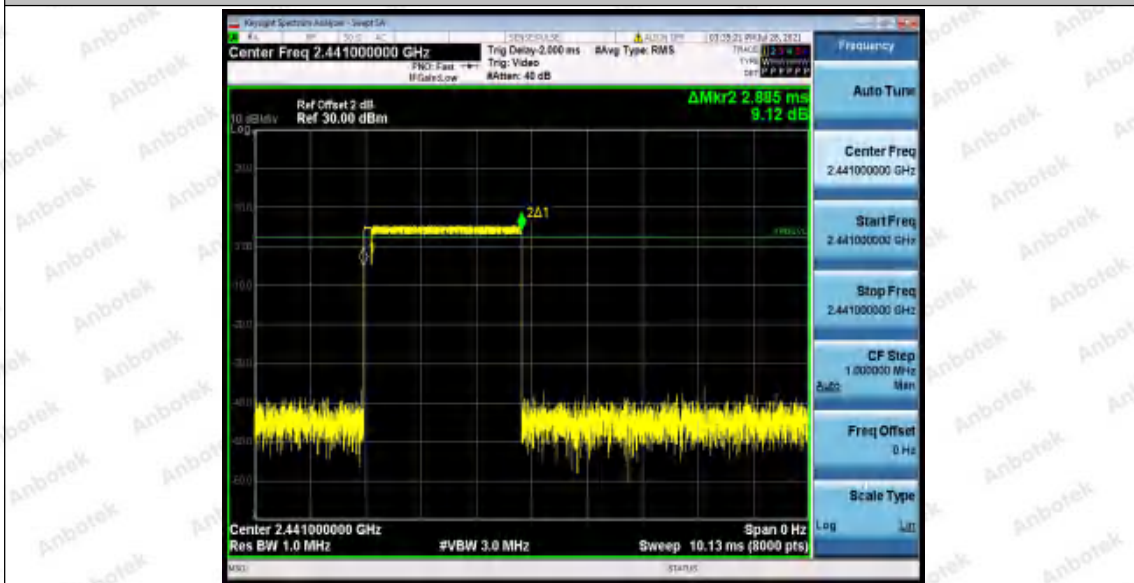
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

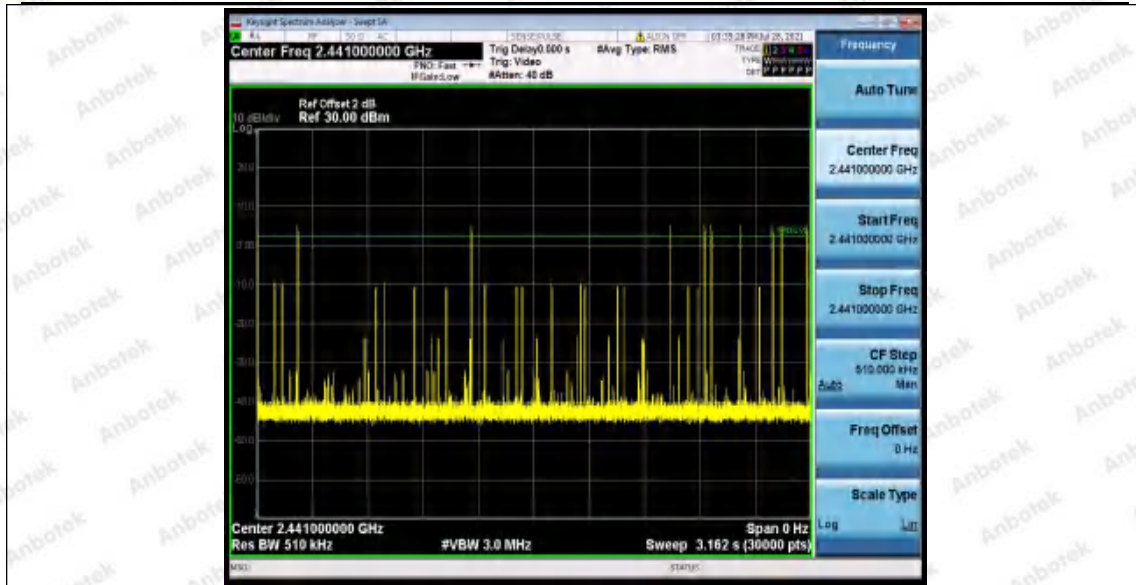
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2DH5_Ant1_Hop





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Appendix F: Number of hopping channels

Test Result

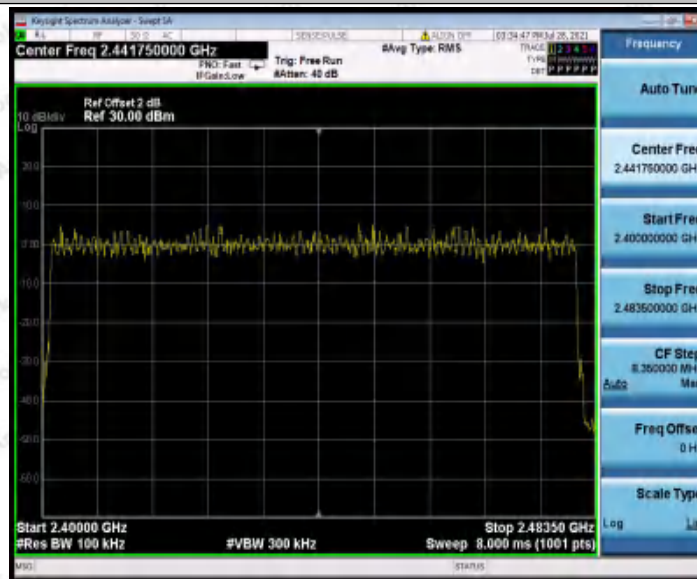
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	>=15	PASS
2DH5	Ant1	Hop	79	>=15	PASS

Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop



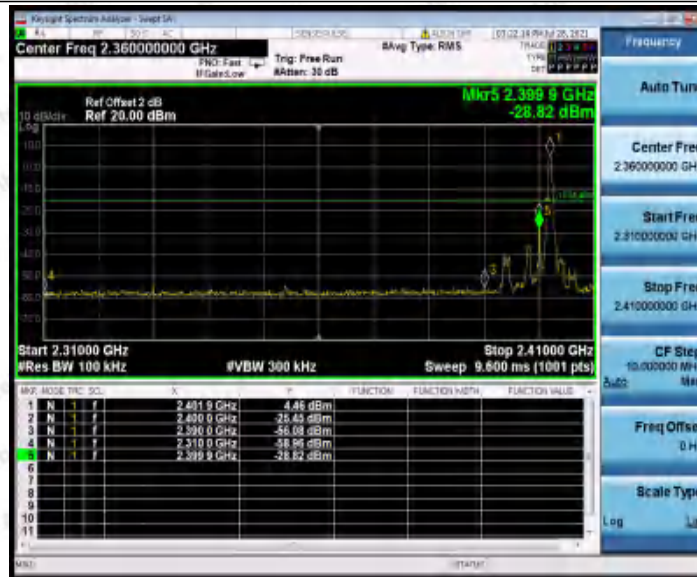
Appendix G: Band edge measurements

Test Result

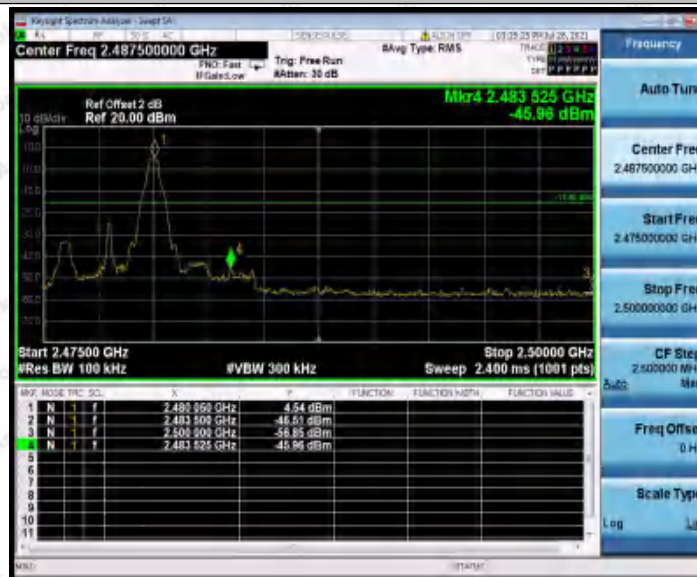
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	4.46	-28.82	<=-15.54	PASS
		High	2480	4.54	-45.96	<=-15.46	PASS
		Low	Hop	4.48	-54.24	<=-15.52	PASS
		High	Hop	4.36	-54.05	<=-15.64	PASS
2DH5	Ant1	Low	2402	4.58	-28.94	<=-15.42	PASS
		High	2480	4.75	-46.99	<=-15.25	PASS
		Low	Hop	2.11	-54.78	<=-17.89	PASS
		High	Hop	3.41	-56.35	<=-16.59	PASS

Test Graphs

DH5_Ant1_Low_2402



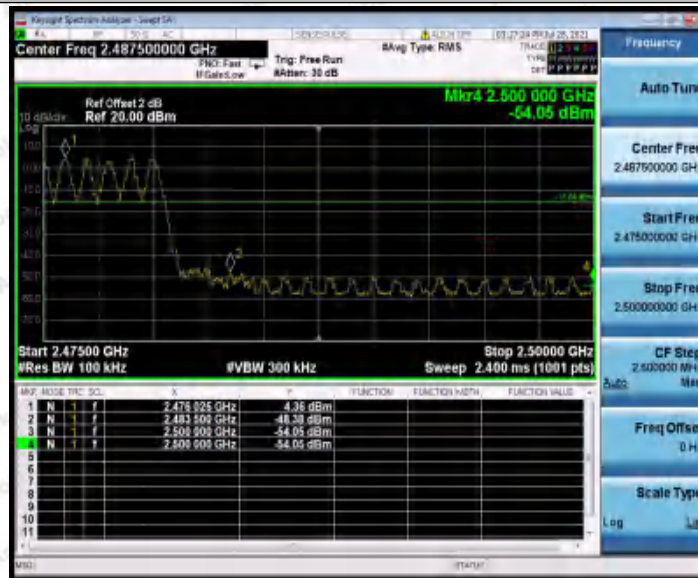
DH5_Ant1_High_2480



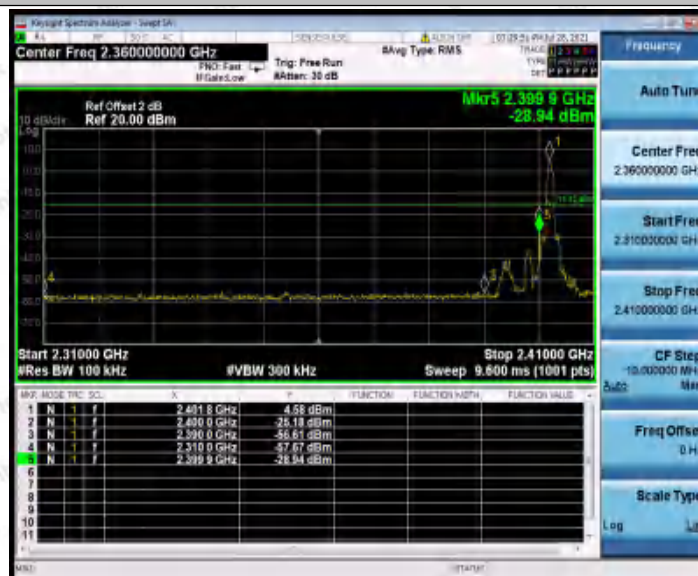
DH5_Ant1_Low_Hop



DH5_Ant1_High_Hop



2DH5_Ant1_Low_2402



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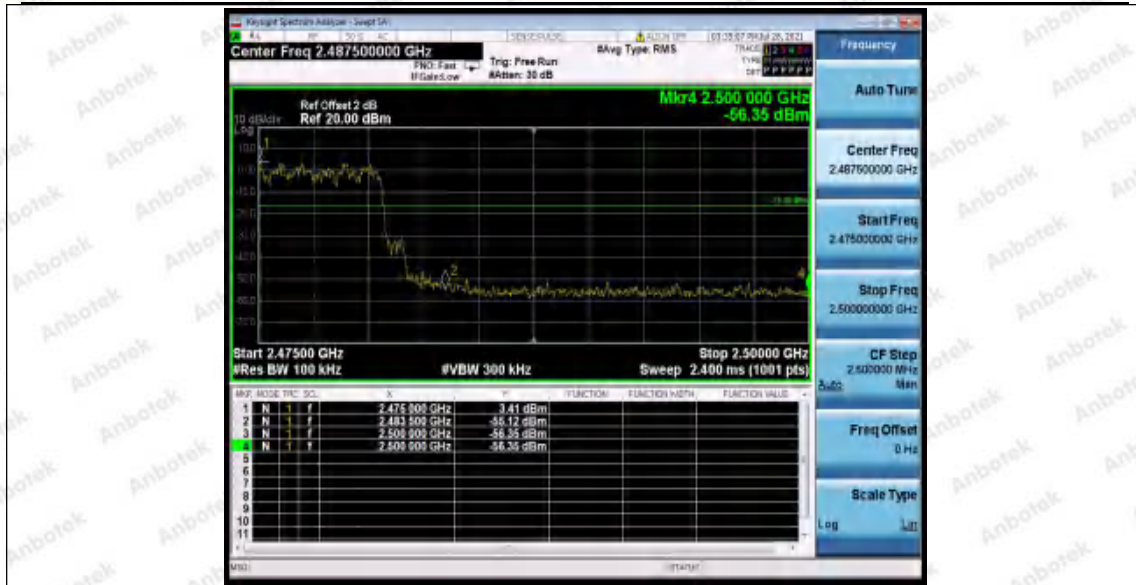
2DH5_Ant1_High_2480



2DH5_Ant1_Low_Hop



2DH5_Ant1_High_Hop



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Appendix H: Conducted Spurious Emission

Test Result

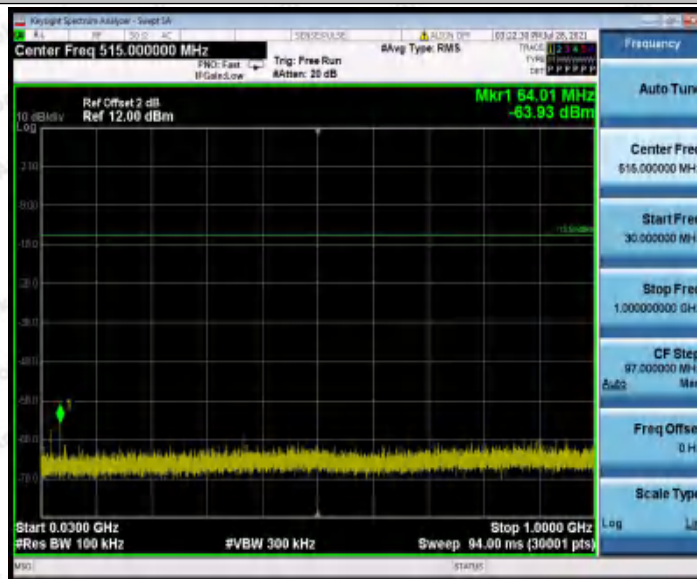
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	4.42	4.42	---	PASS
			30~1000	4.42	-63.93	<=-15.59	PASS
			1000~26500	4.42	-34.85	<=-15.59	PASS
		2441	Reference	4.88	4.88	---	PASS
			30~1000	4.88	-63.31	<=-15.12	PASS
			1000~26500	4.88	-35.74	<=-15.12	PASS
		2480	Reference	4.49	4.49	---	PASS
			30~1000	4.49	-65.06	<=-15.51	PASS
			1000~26500	4.49	-38.76	<=-15.51	PASS
2DH5	Ant1	2402	Reference	4.51	4.51	---	PASS
			30~1000	4.51	-65.35	<=-15.49	PASS
			1000~26500	4.51	-39.03	<=-15.49	PASS
		2441	Reference	5.05	5.05	---	PASS
			30~1000	5.05	-63.98	<=-14.95	PASS
			1000~26500	5.05	-38.07	<=-14.95	PASS
		2480	Reference	4.66	4.66	---	PASS
			30~1000	4.66	-64.78	<=-15.34	PASS
			1000~26500	4.66	-43.42	<=-15.34	PASS

Test Graphs

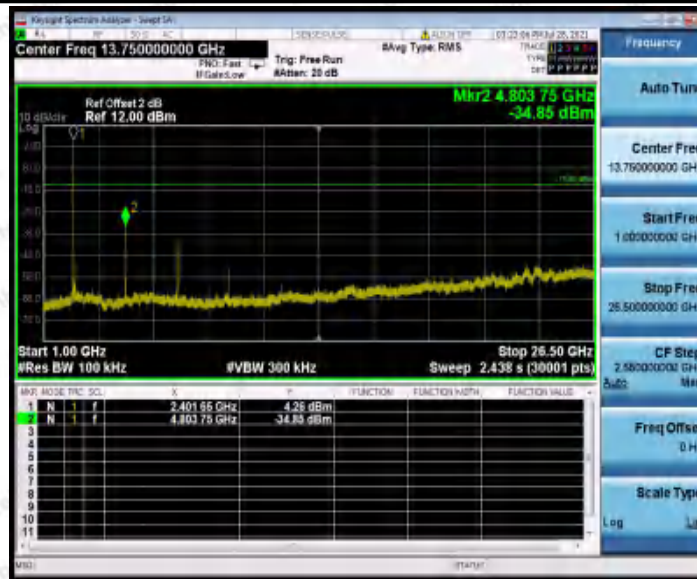
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



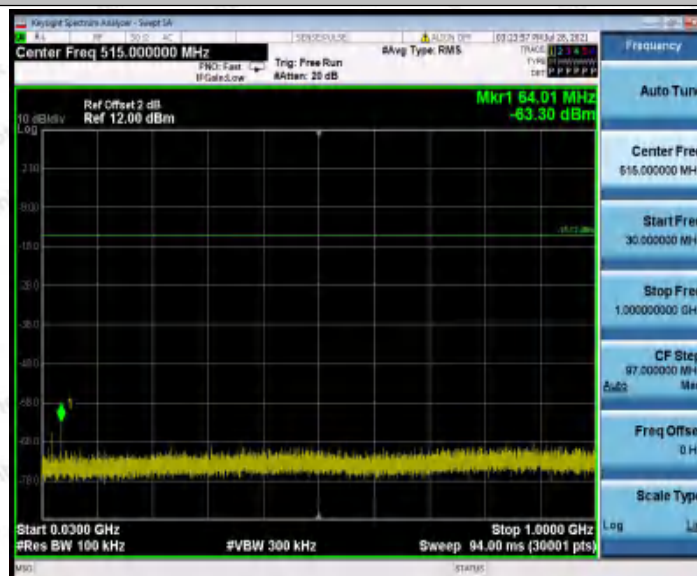
DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000

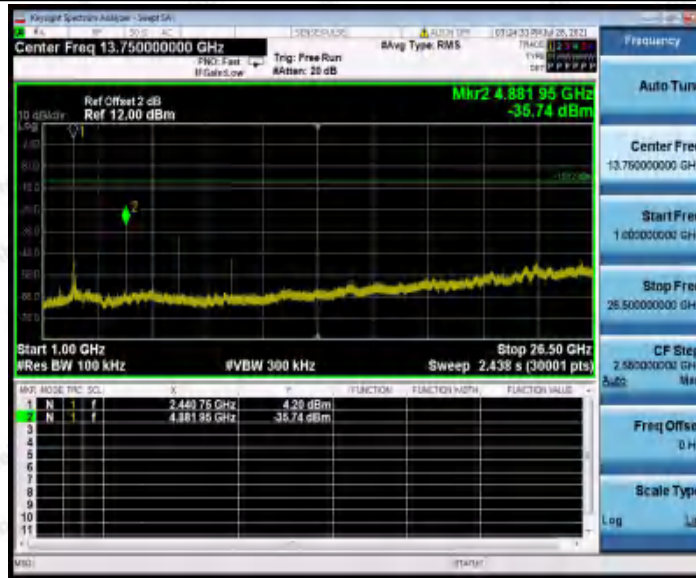


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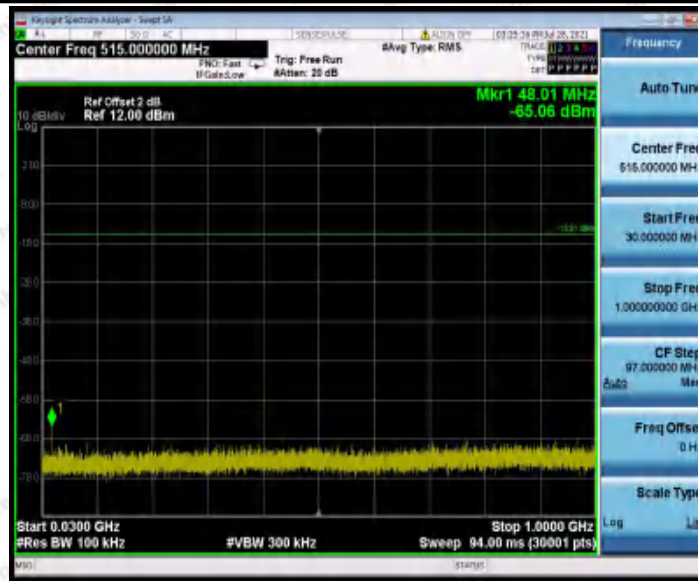
DH5_Ant1_2441_1000~26500



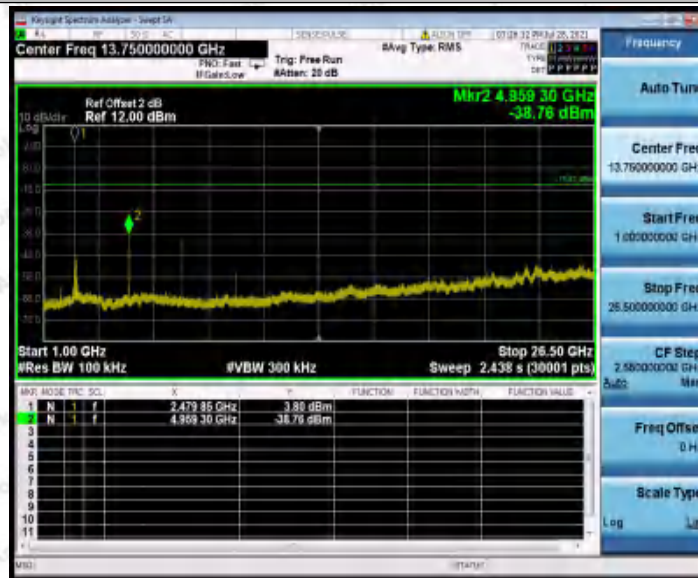
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



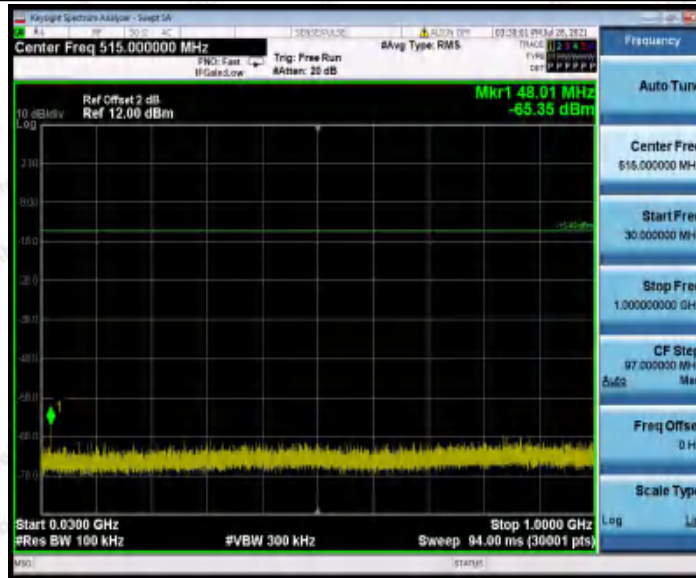
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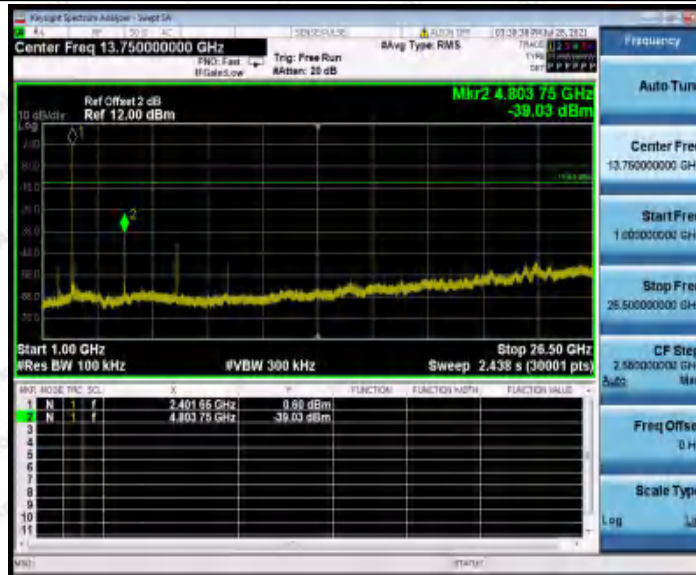
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2DH5_Ant1_2402_30~1000



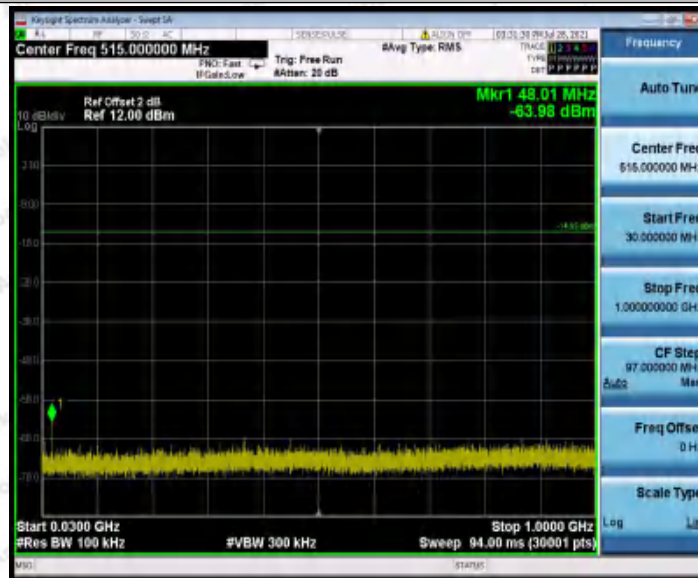
2DH5_Ant1_2402_1000~26500



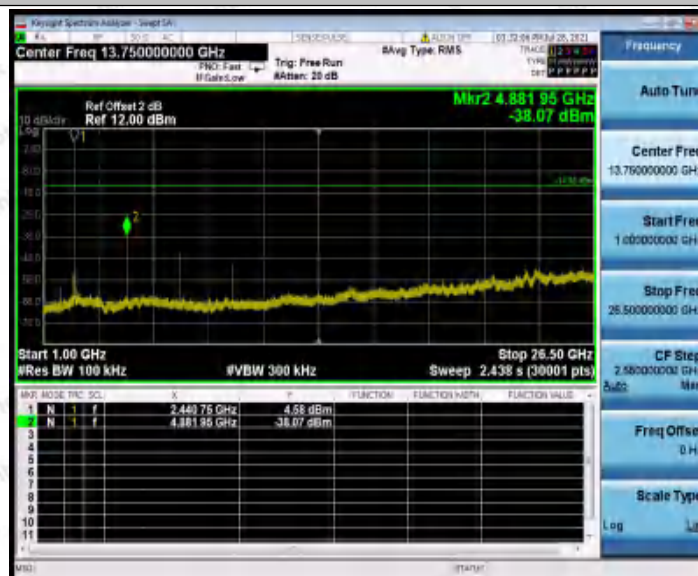
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



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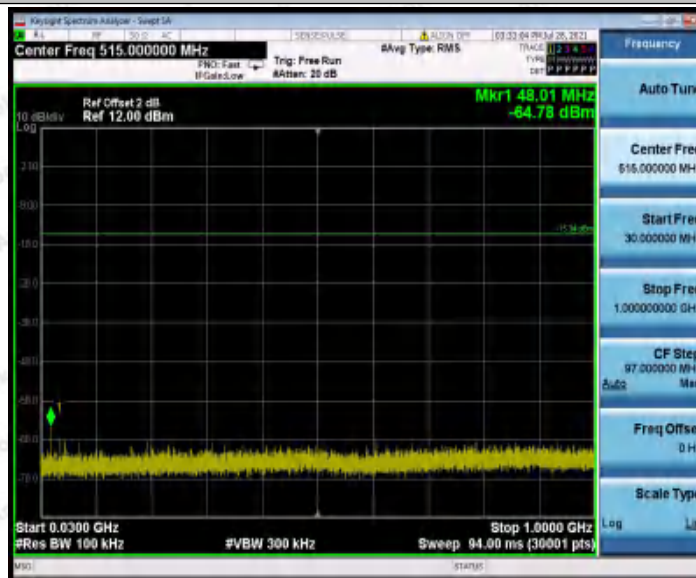
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2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



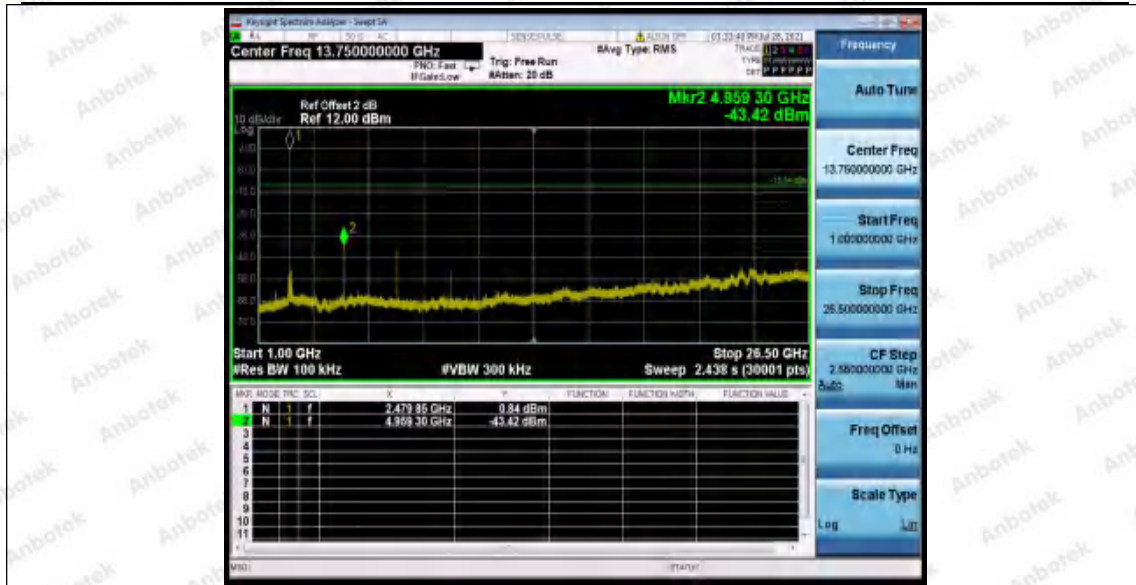
2DH5_Ant1_2480_1000~26500

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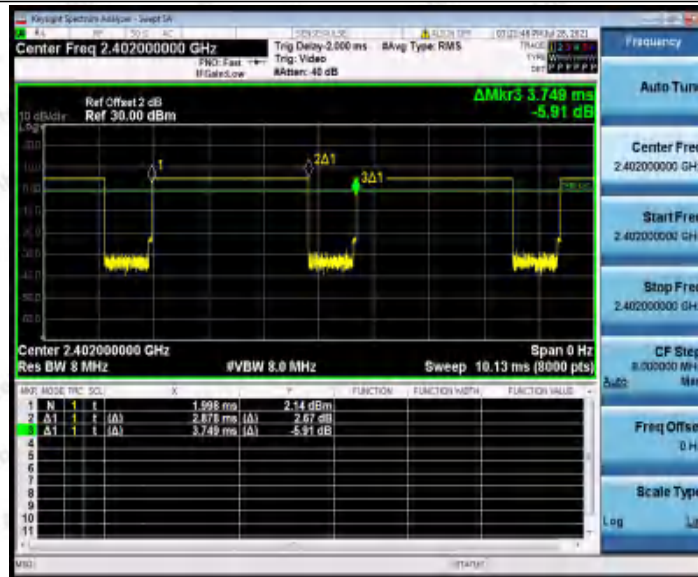
Appendix I: Duty Cycle

Test Result

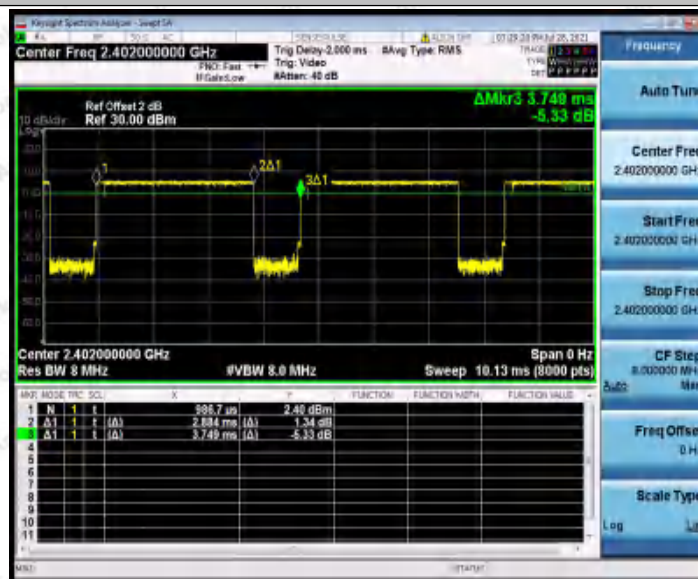
TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.7680	76.80	1.15	---	PASS

Test Graphs

DH5_Ant1_2402



2DH5_Ant1_2402



----End----