

Appendix Test Data

Report No.:	18220WC10181201	Test Date:	2021.8.12
Test Engineer:	<i>Jony. He</i>	Auditor:	<i>Edward. Pan</i>
Temperature:	24.3°C	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	1.074	2401.466	2402.540	---	PASS
		2441	1.092	2440.463	2441.555	---	PASS
		2480	1.080	2479.463	2480.543	---	PASS
2DH5	Ant1	2402	1.389	2401.316	2402.705	---	PASS
		2441	1.377	2440.322	2441.699	---	PASS
		2480	1.365	2479.325	2480.690	---	PASS

Test Graphs

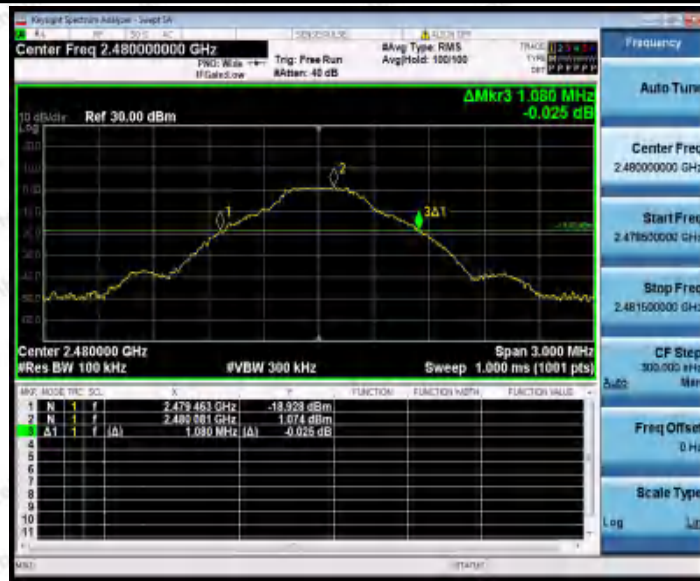
DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441

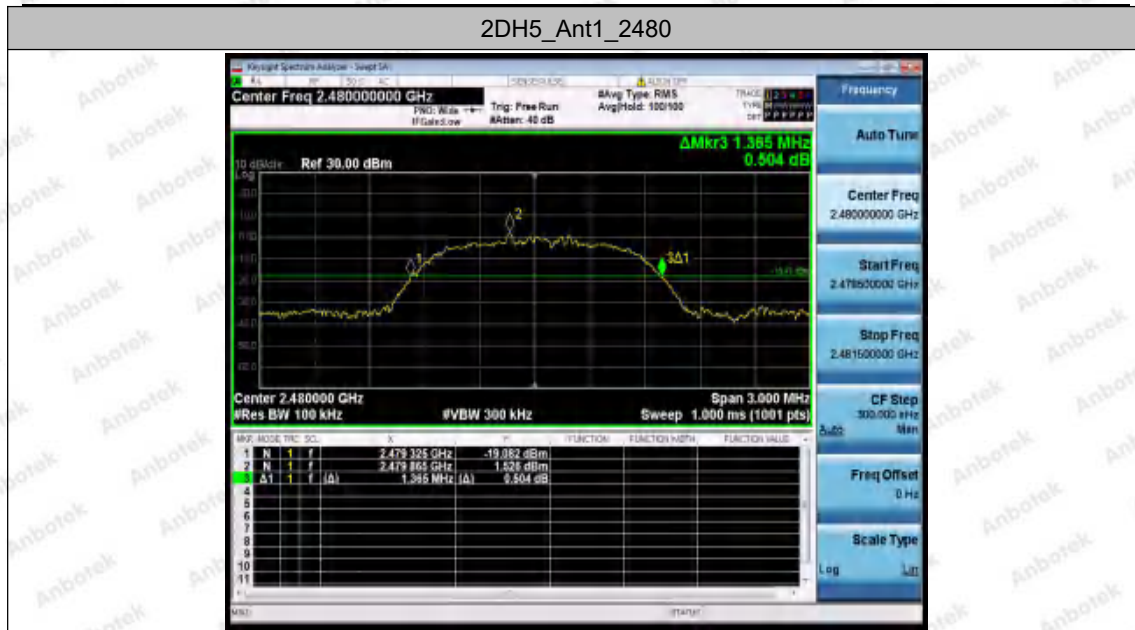


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Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.84896	2401.586	2402.435	---	PASS
		2441	0.85273	2440.583	2441.436	---	PASS
		2480	0.84738	2479.585	2480.432	---	PASS
2DH5	Ant1	2402	1.2033	2401.411	2402.615	---	PASS
		2441	1.1941	2440.415	2441.610	---	PASS
		2480	1.2025	2479.413	2480.615	---	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

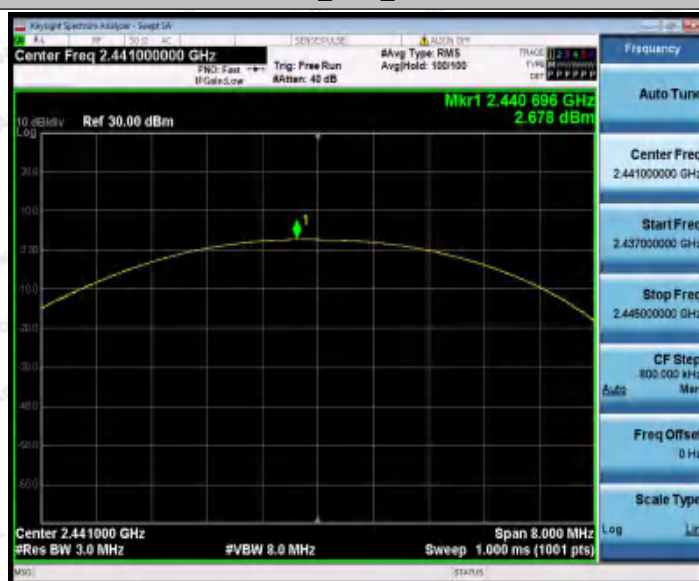
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	2.9	≤20.97	PASS
		2441	2.68	≤20.97	PASS
		2480	2.05	≤20.97	PASS
2DH5	Ant1	2402	3.62	≤20.97	PASS
		2441	3.33	≤20.97	PASS
		2480	2.66	≤20.97	PASS

Test Graphs

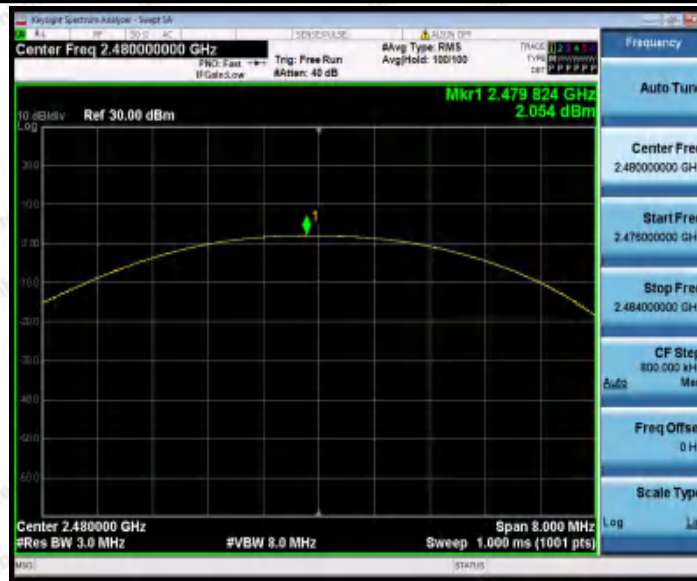
DH5_Ant1_2402



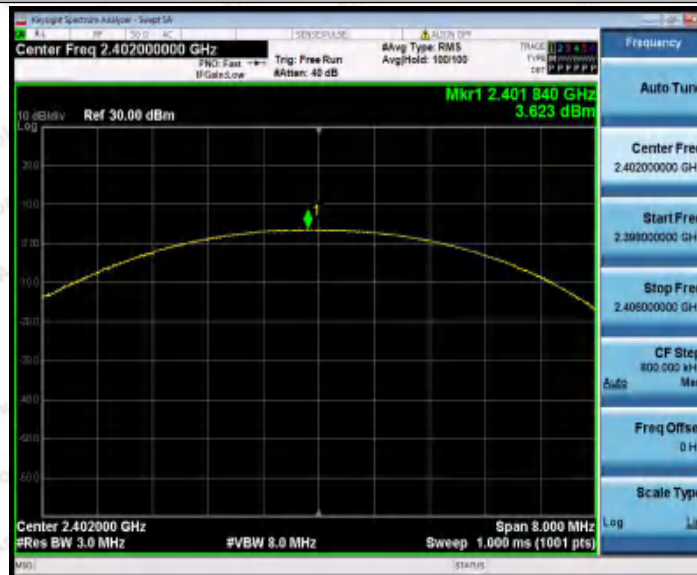
DH5_Ant1_2441



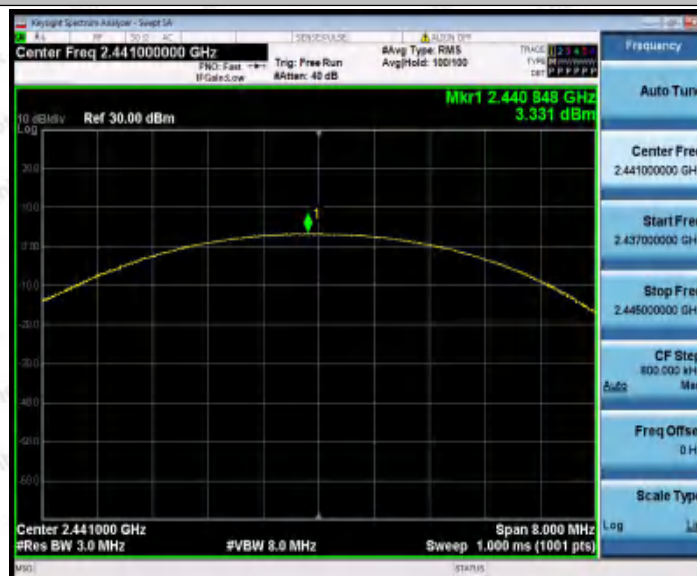
DH5_Ant1_2480



2DH5_Ant1_2402



2DH5_Ant1_2441

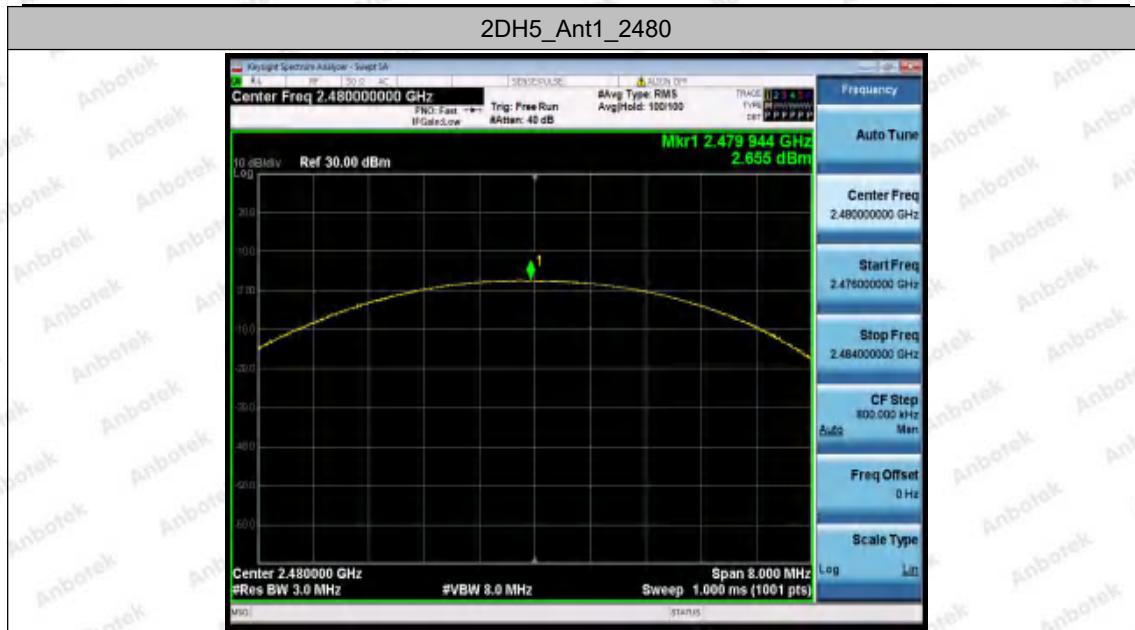


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Appendix D: Carrier frequency separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.146	≥ 1.092	PASS
2DH5	Ant1	Hop	1.164	≥ 0.926	PASS

Test Graphs

DH5_Ant1_Hop



2DH5_Ant1_Hop

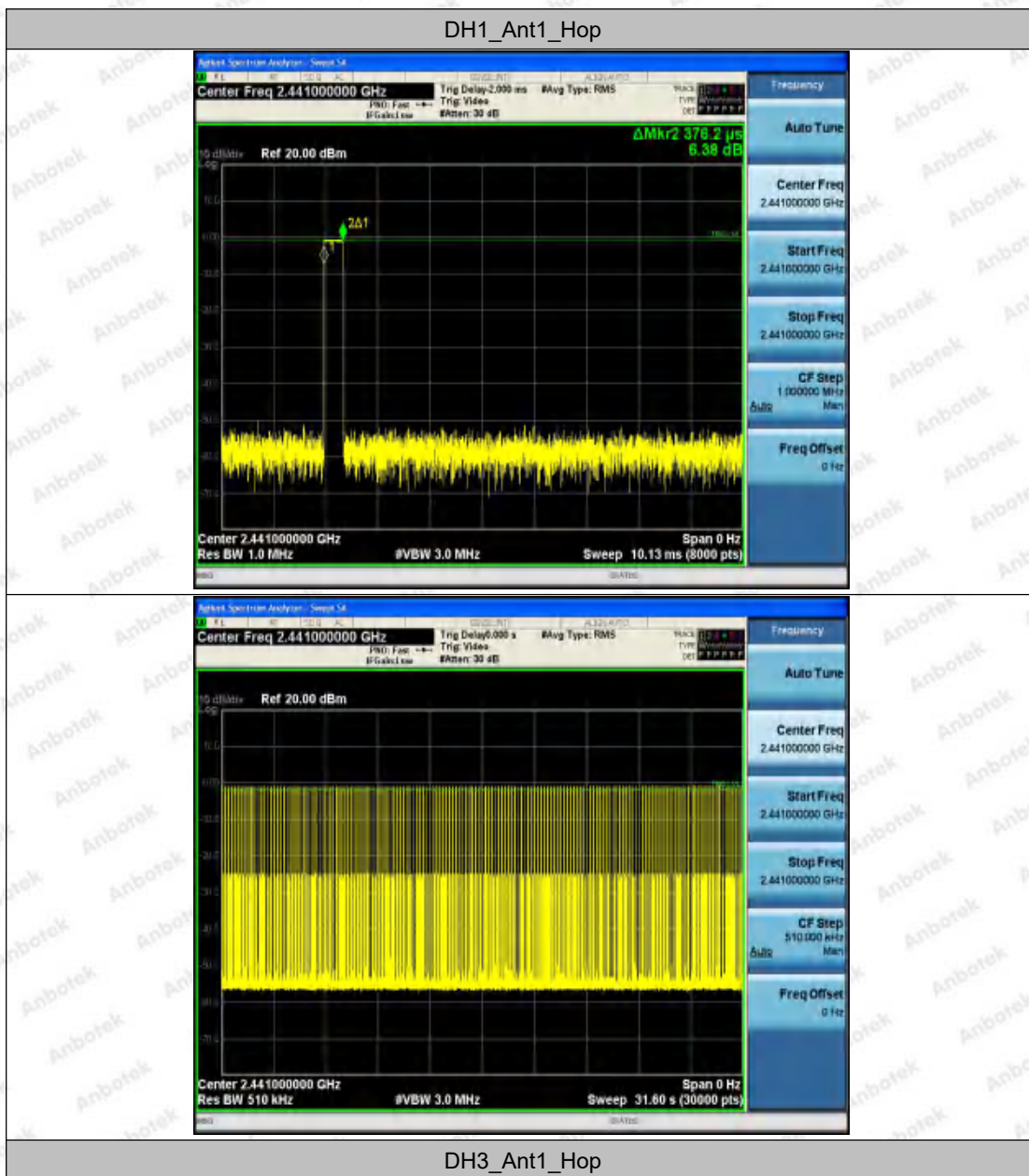


Appendix E: Time of occupancy

Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	314	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.88	111	0.32	≤0.4	PASS
2DH1	Ant1	Hop	0.38	313	0.12	≤0.4	PASS
2DH3	Ant1	Hop	1.64	157	0.257	≤0.4	PASS
2DH5	Ant1	Hop	2.88	93	0.268	≤0.4	PASS

Test Graphs



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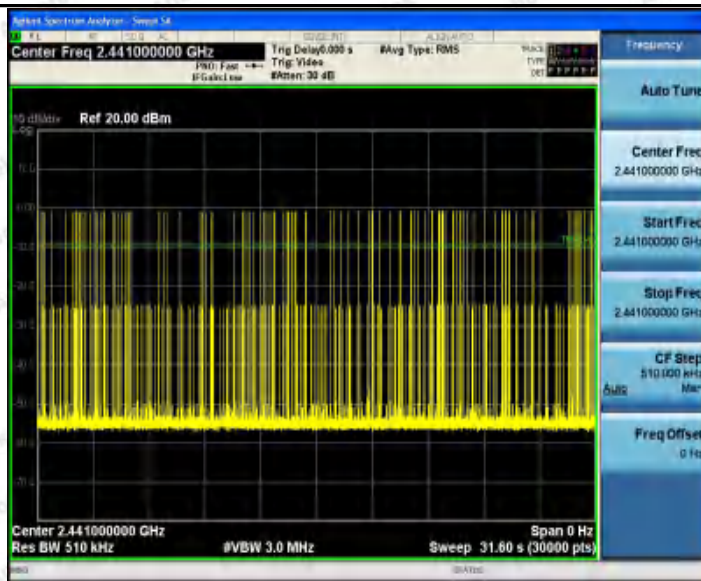


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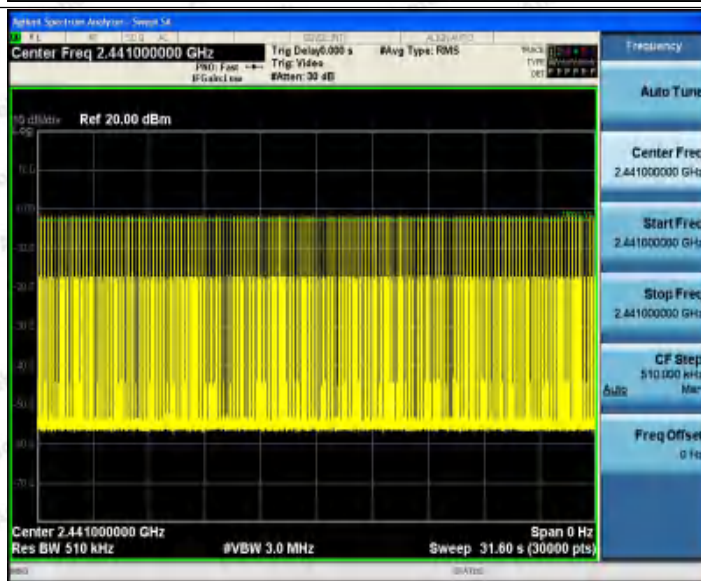
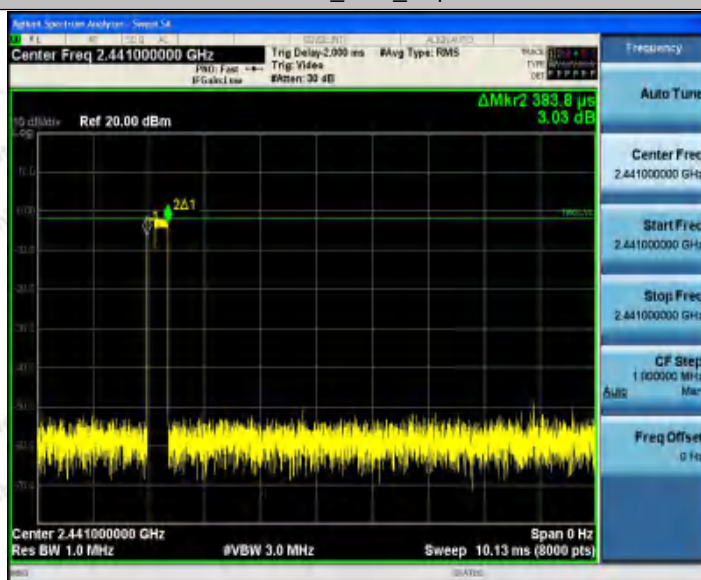
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2DH1_Ant1_Hop



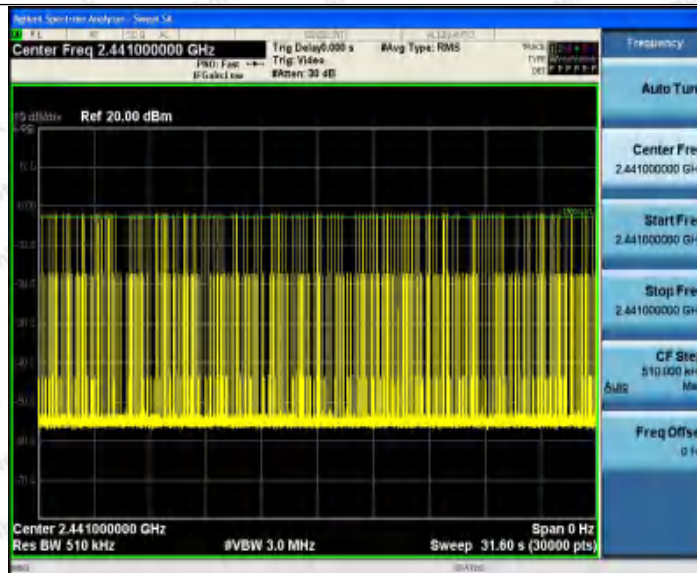
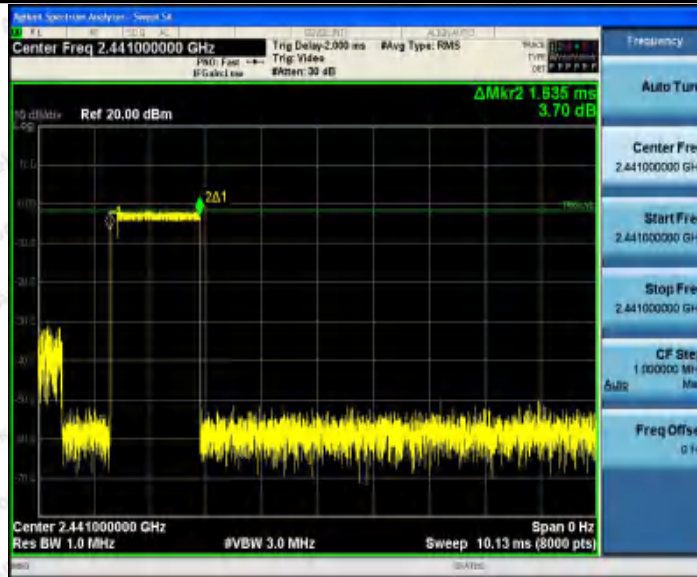
2DH3_Ant1_Hop

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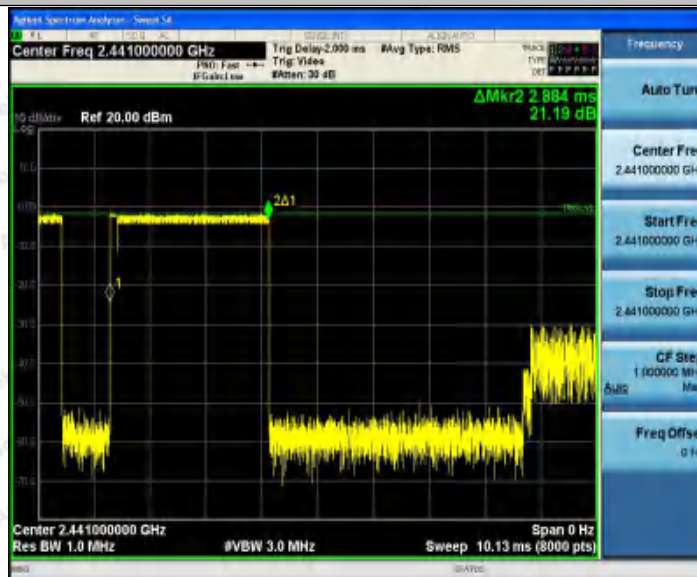
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2DH5_Ant1_Hop

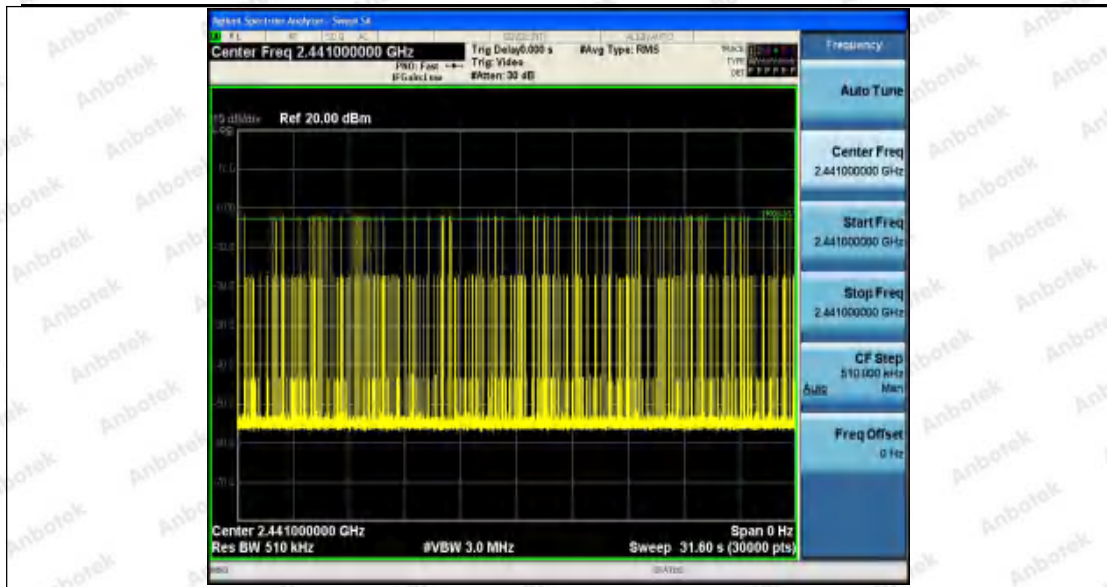


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Appendix F: Number of hopping channels

Test Result

TestMode	Antenna	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



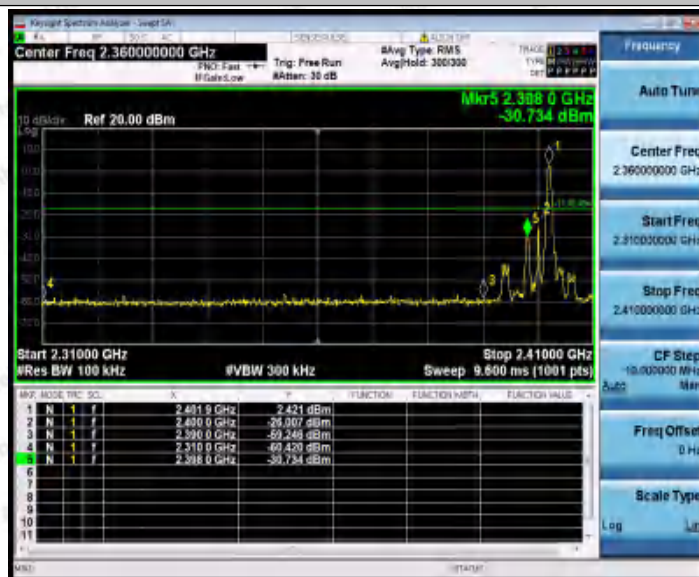
Appendix G: Band edge measurements

Test Result

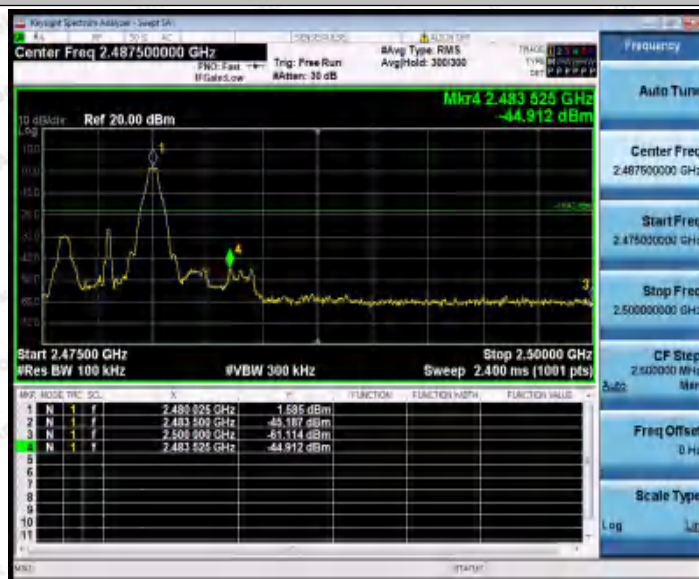
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.42	-30.73	≤-17.58	PASS
		High	2480	1.59	-44.91	≤-18.42	PASS
		Low	Hop	2.37	-53.21	≤-17.63	PASS
		High	Hop	1.09	-58.04	≤-18.91	PASS
2DH5	Ant1	Low	2402	2.63	-30.93	≤-17.37	PASS
		High	2480	1.70	-45.34	≤-18.3	PASS
		Low	Hop	2.51	-57.67	≤-17.49	PASS
		High	Hop	0.28	-59.72	≤-19.72	PASS

Test Graphs

DH5_Ant1_Low_2402



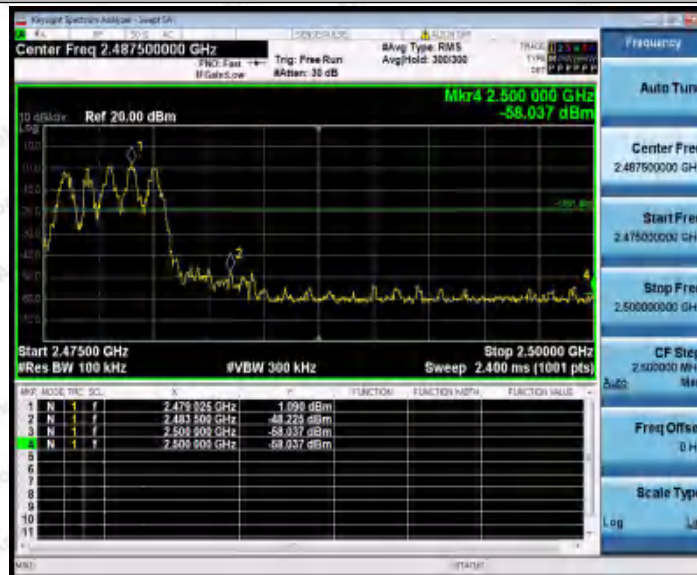
DH5_Ant1_High_2480



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

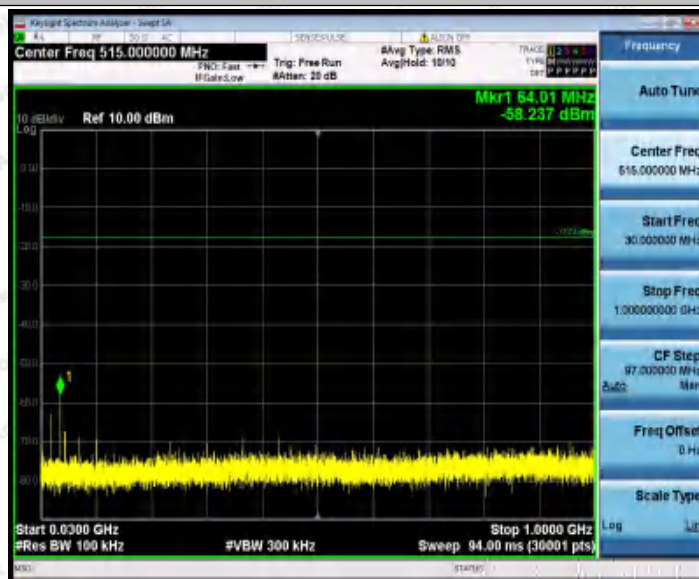
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.26	2.26	---	PASS
			30~1000	2.26	-58.24	≤-17.74	PASS
			1000~26500	2.26	-37.17	≤-17.74	PASS
		2441	Reference	1.80	1.80	---	PASS
			30~1000	1.80	-62.3	≤-18.2	PASS
			1000~26500	1.80	-37.95	≤-18.2	PASS
		2480	Reference	1.23	1.23	---	PASS
			30~1000	1.23	-61.99	≤-18.77	PASS
			1000~26500	1.23	-40.53	≤-18.77	PASS
2DH5	Ant1	2402	Reference	1.89	1.89	---	PASS
			30~1000	1.89	-63.17	≤-18.11	PASS
			1000~26500	1.89	-41.72	≤-18.11	PASS
		2441	Reference	1.32	1.32	---	PASS
			30~1000	1.32	-61.88	≤-18.69	PASS
			1000~26500	1.32	-41.26	≤-18.69	PASS
		2480	Reference	0.93	0.93	---	PASS
			30~1000	0.93	-62.04	≤-19.07	PASS
			1000~26500	0.93	-40.07	≤-19.07	PASS

Test Graphs

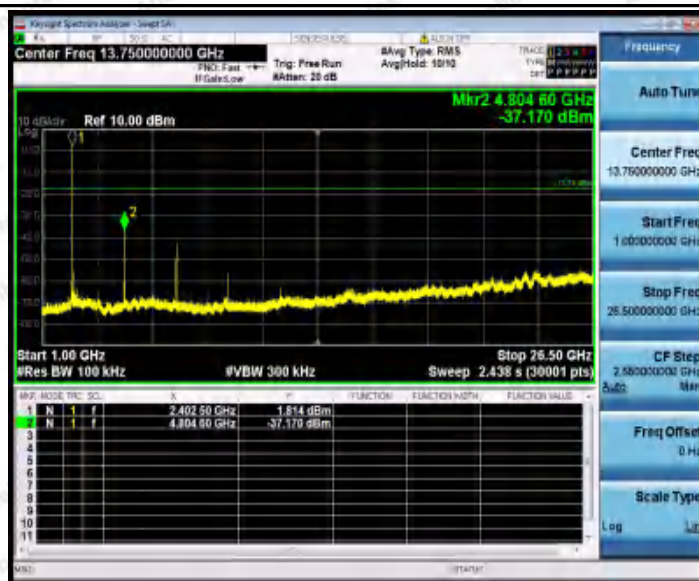
DH5_Ant1_2402_0~Reference



DH5_Ant1_2402_30~1000



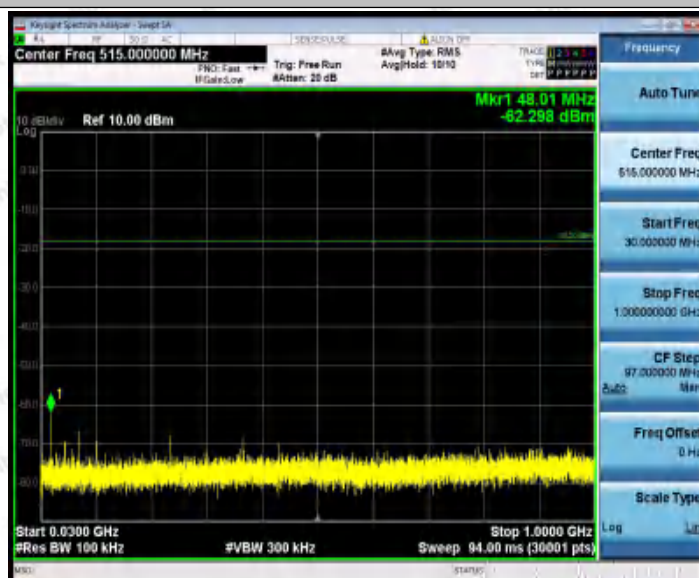
DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



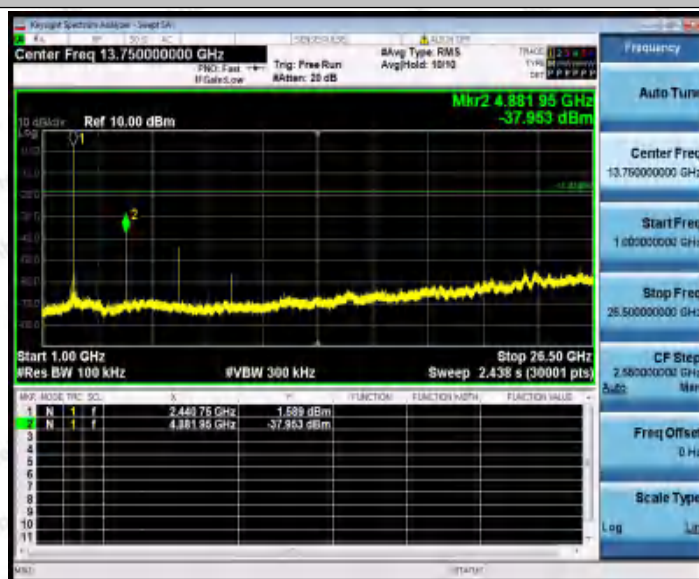
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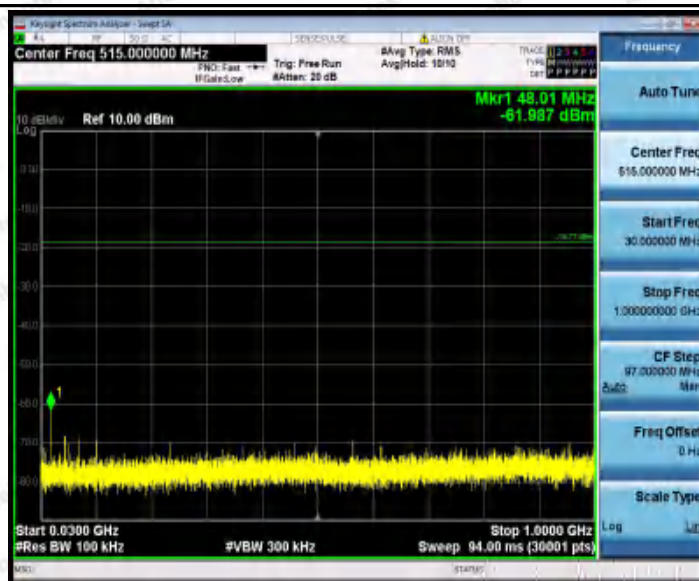
DH5_Ant1_2441_1000~26500



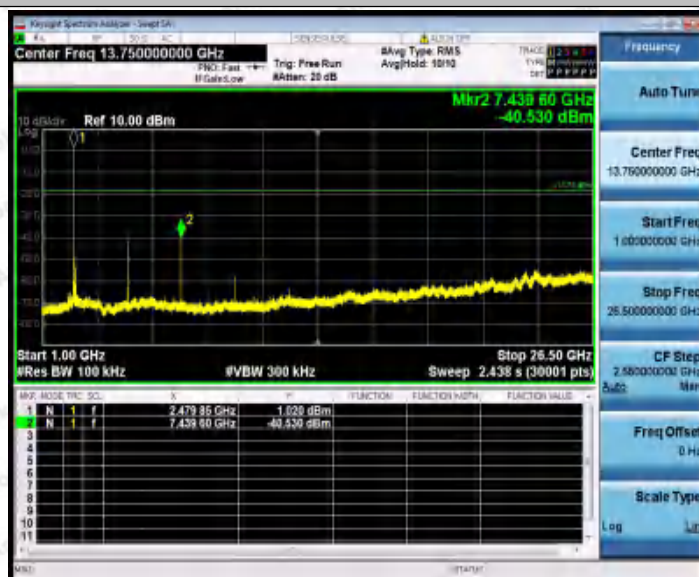
DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



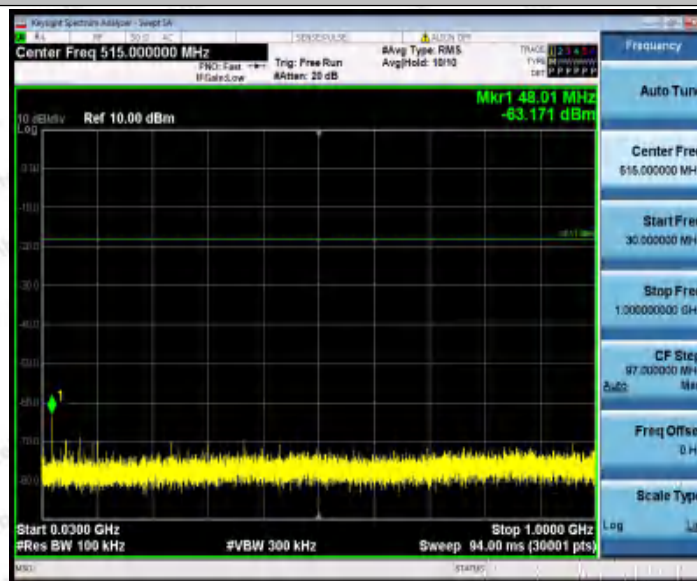
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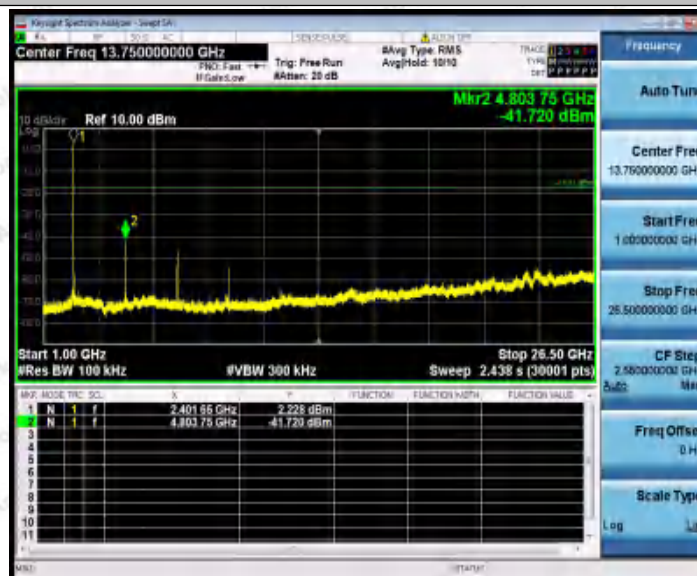
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2DH5_Ant1_2402_30~1000



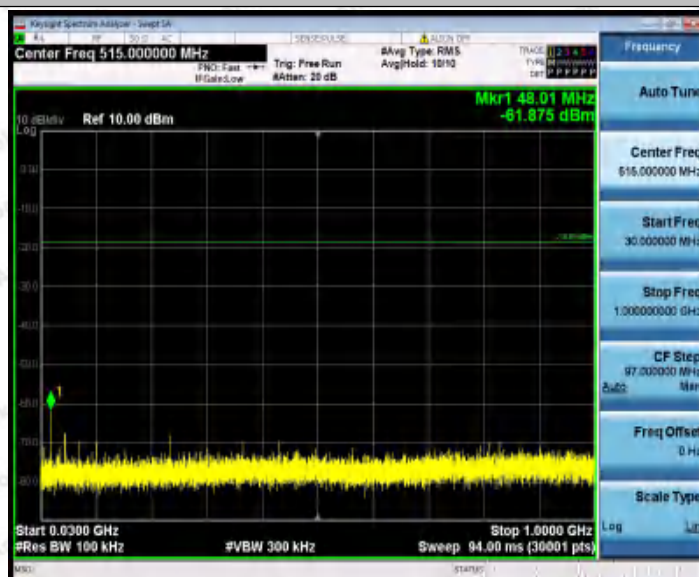
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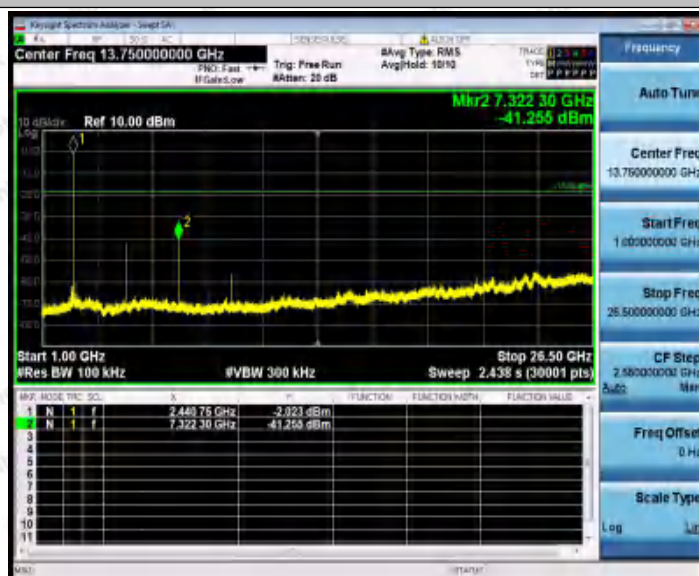
2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500



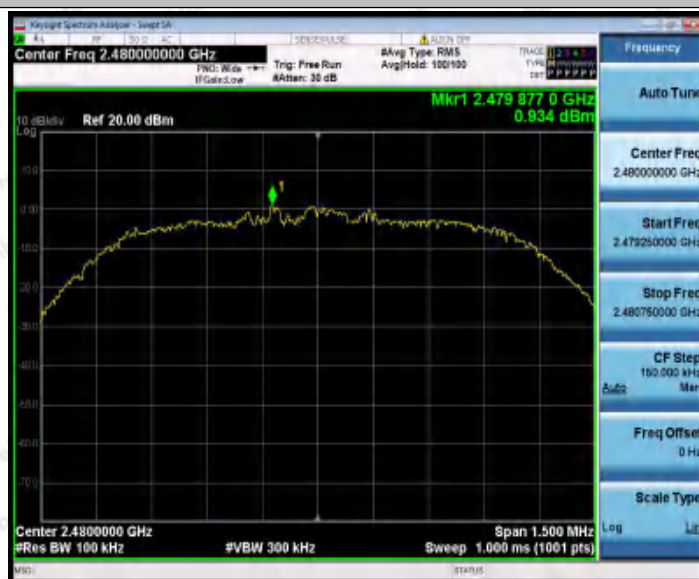
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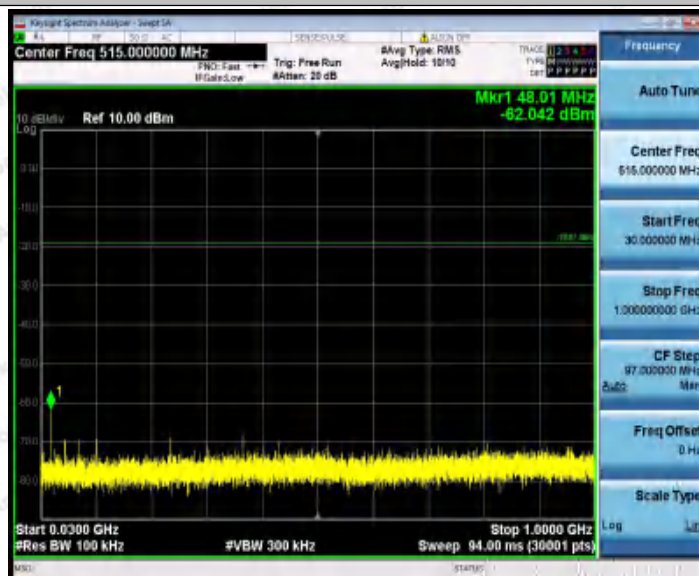
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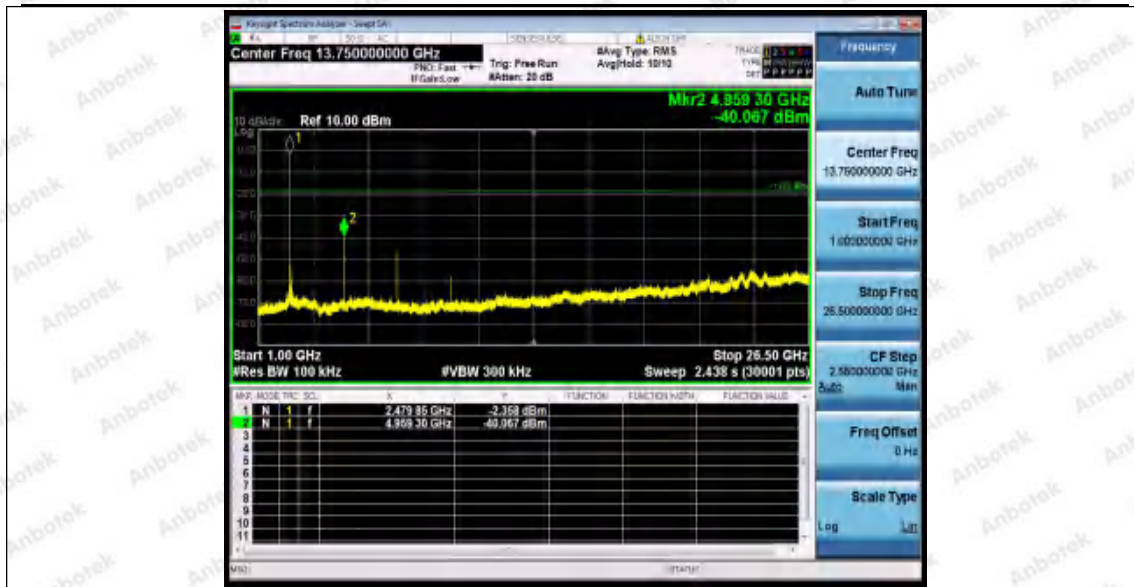
2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



2DH5_Ant1_2480_1000~26500



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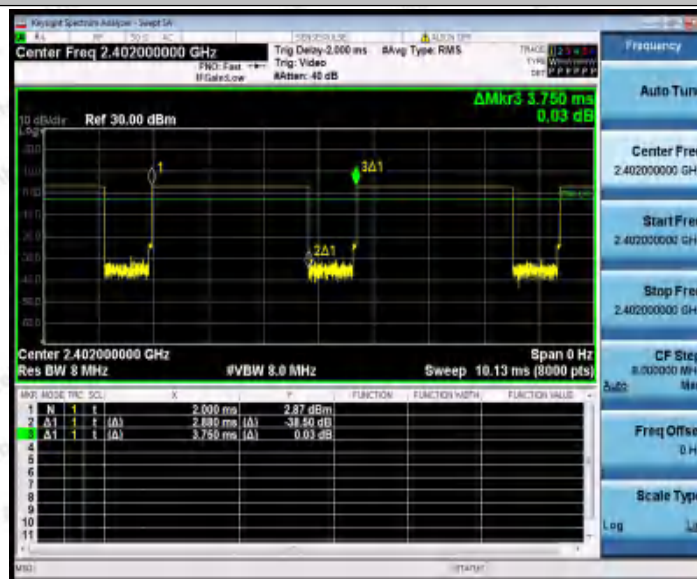
Appendix I: Duty Cycle

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	2.89	3.76	0.7686	76.86	1.14	---	PASS

Test Graphs

DH5_Ant1_2402



2DH5_Ant1_2402



---End---