

Case No. : GTS20220323004-1-1	
Ambient Condition: 25 °C, 45 %RH,	
Test Date: 2022-6-08	Test Engineer: Jenny Zeng

Appendix A.1: 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.930	2401.544	2402.474	---	---
		2441	0.939	2440.544	2441.483	---	---
		2480	0.900	2479.550	2480.450	---	---
2DH1	Ant1	2402	1.242	2401.373	2402.615	---	---
		2441	1.251	2440.367	2441.618	---	---
		2480	1.227	2479.367	2480.594	---	---
3DH1	Ant1	2402	1.248	2401.385	2402.633	---	---
		2441	1.251	2440.385	2441.636	---	---
		2480	1.266	2479.367	2480.633	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



2D H1_Ant1_2402



2D H1_Ant1_2441



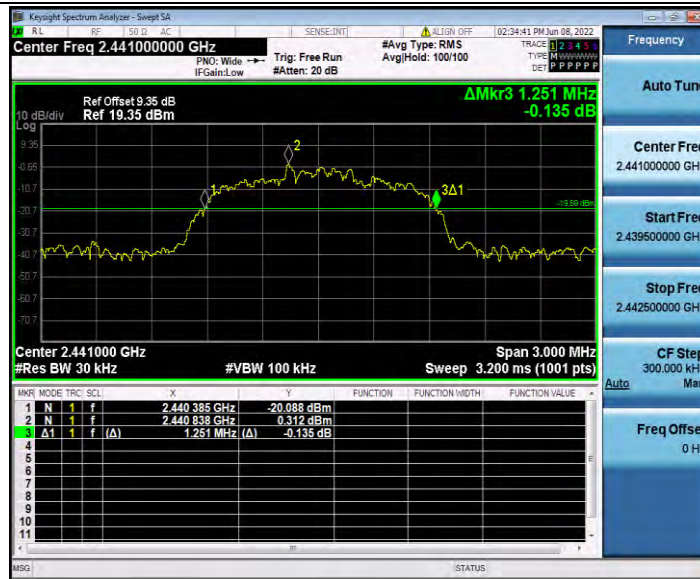
2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441



3DH1_Ant1_2480



Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.83450	2401.583	2402.417	---	---
		2441	0.84682	2440.575	2441.422	---	---
		2480	0.84256	2479.578	2480.420	---	---
2DH1	Ant1	2402	1.1583	2401.418	2402.577	---	---
		2441	1.1611	2440.415	2441.577	---	---
		2480	1.1613	2479.417	2480.578	---	---
3DH1	Ant1	2402	1.1512	2401.433	2402.585	---	---
		2441	1.1615	2440.429	2441.591	---	---
		2480	1.1624	2479.429	2480.591	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



2DH1_Ant1_2402



2DH1_Ant1_2441



2DH1_Ant1_2480



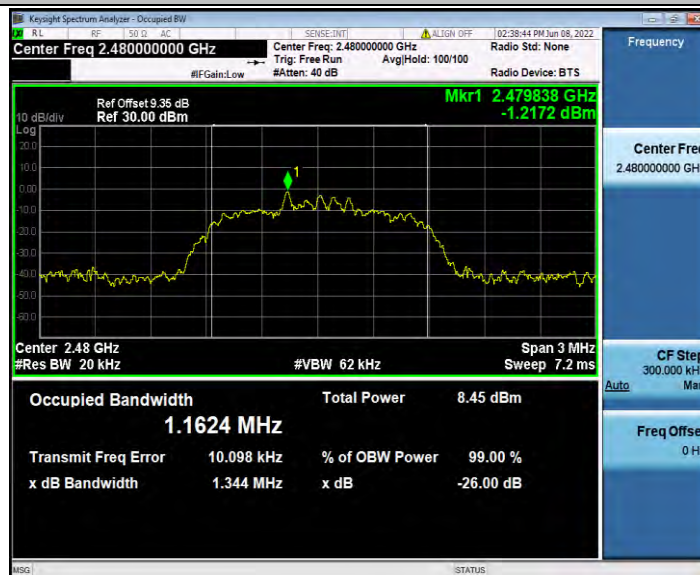
3DH1_Ant1_2402



3DH1_Ant1_2441



3DH1_Ant1_2480



Appendix A.3: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.986	≥ 0.939	PASS
		Hop_2441	1.008	≥ 0.939	PASS
		Hop_2480	0.994	≥ 0.939	PASS
2DH1	Ant1	Hop_2402	0.986	≥ 0.834	PASS
		Hop_2441	0.994	≥ 0.834	PASS
		Hop_2480	1.000	≥ 0.834	PASS
3DH1	Ant1	Hop_2402	1.170	≥ 0.844	PASS
		Hop_2441	1.164	≥ 0.844	PASS
		Hop_2480	1.012	≥ 0.844	PASS

Test Graphs

DH1_Ant1_Hop_2402



DH1_Ant1_Hop_2441



DH1_Ant1_Hop_2480



2DH1_Ant1_Hop_2402



2DH1_Ant1_Hop_2441



2DH1_Ant1_Hop_2480



3DH1_Ant1_Hop_2402



3DH1_Ant1_Hop_2441



3DH1_Ant1_Hop_2480



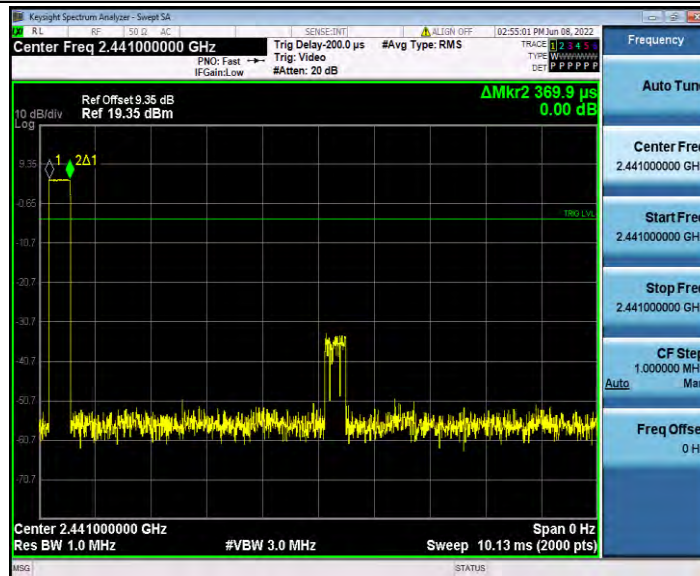
Appendix A.4: Time of occupancy

Test Result

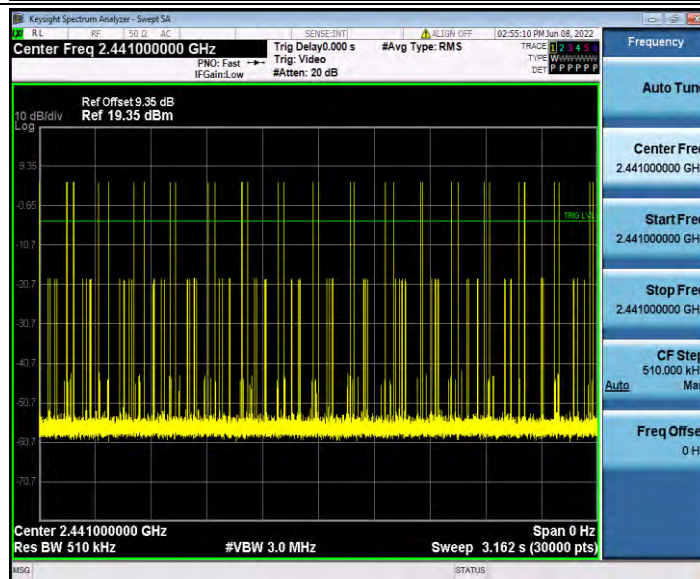
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	330	0.122	≤0.4	PASS
DH3	Ant1	Hop	1.62	180	0.292	≤0.4	PASS
DH5	Ant1	Hop	2.87	110	0.316	≤0.4	PASS
2DH1	Ant1	Hop	0.37	320	0.12	≤0.4	PASS
2DH3	Ant1	Hop	1.63	180	0.293	≤0.4	PASS
2DH5	Ant1	Hop	2.88	120	0.345	≤0.4	PASS
3DH1	Ant1	Hop	0.37	330	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.63	160	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.88	130	0.374	≤0.4	PASS

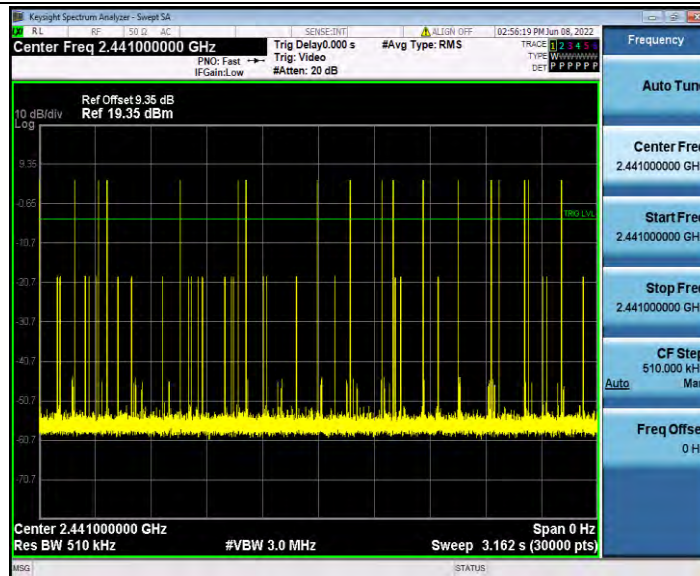
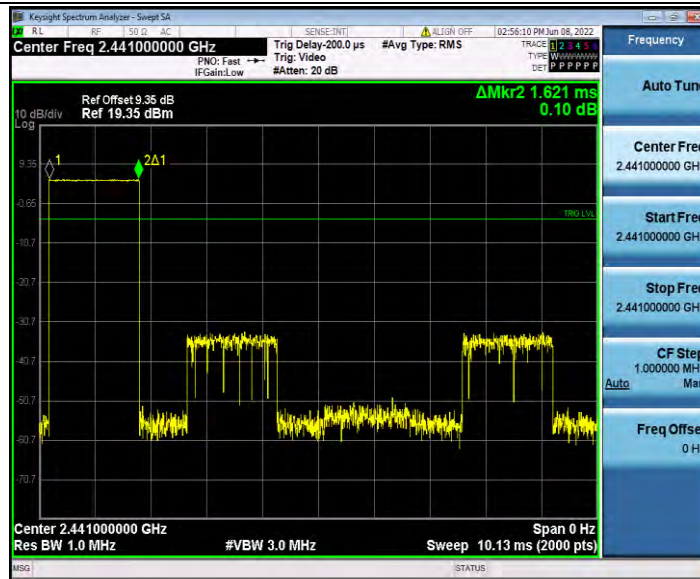
Test Graphs

DH1_Ant1_Hop

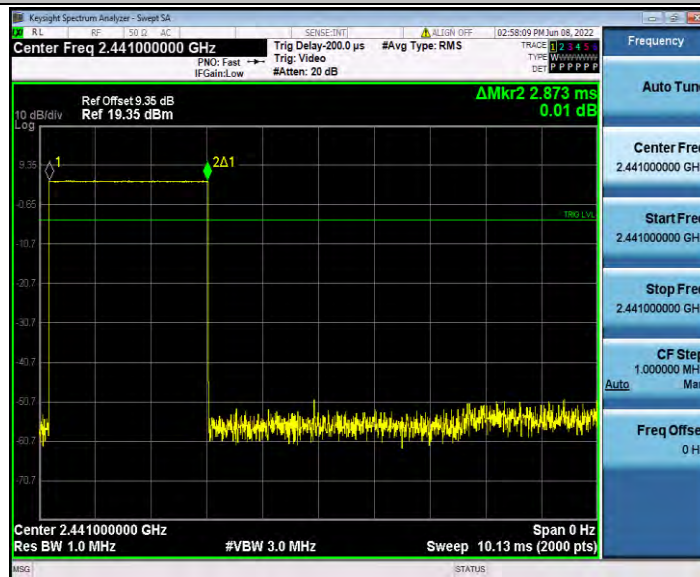


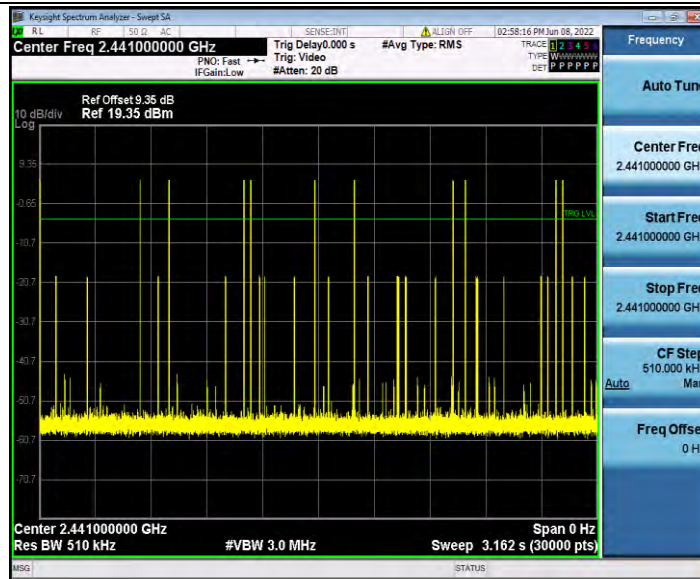
DH3_Ant1_Hop



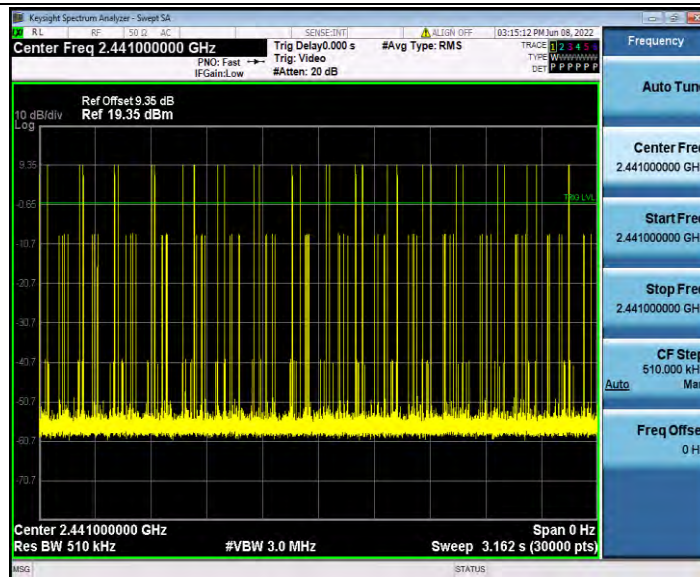
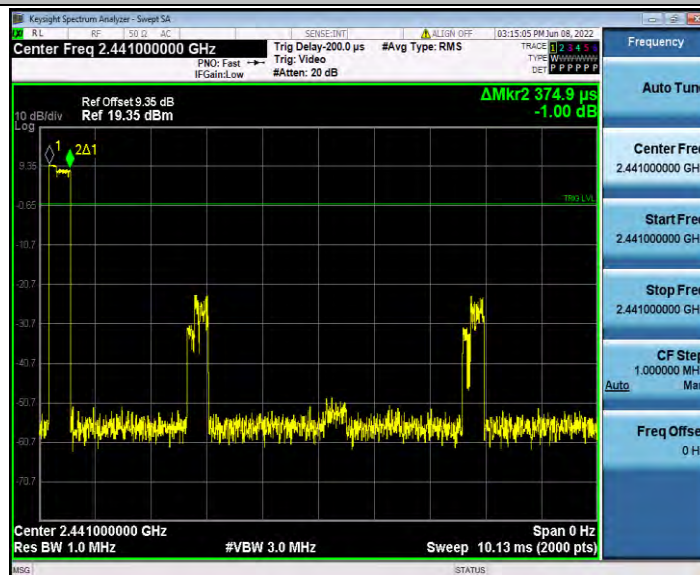


DH5_Ant1_Hop

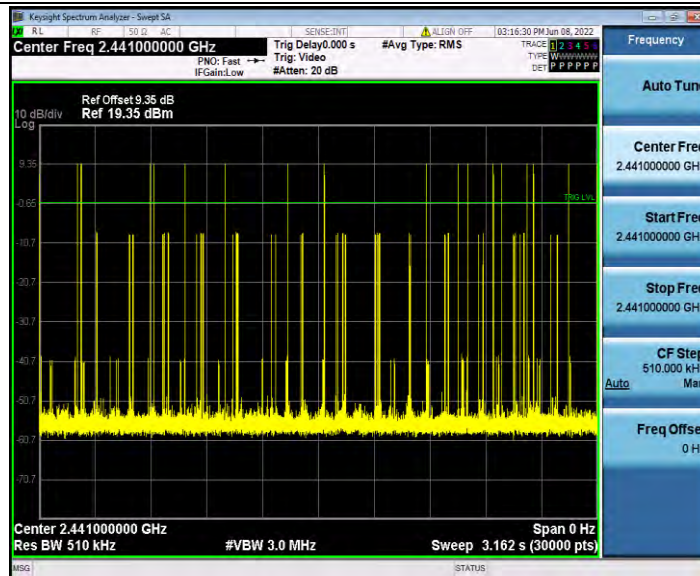
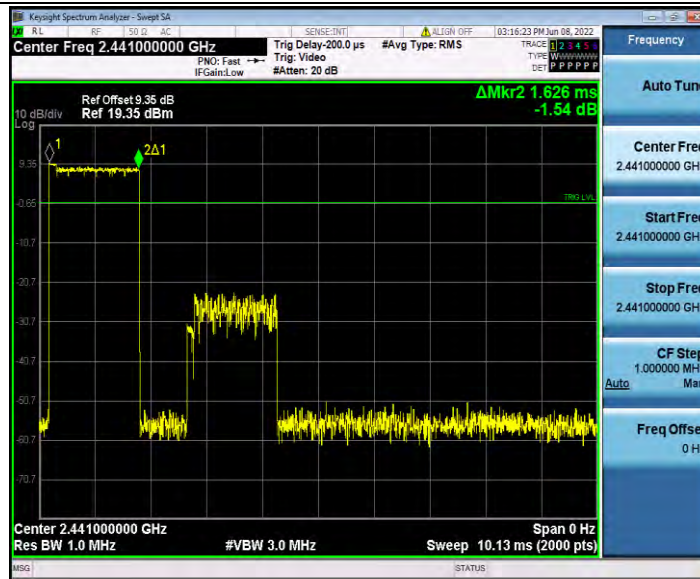




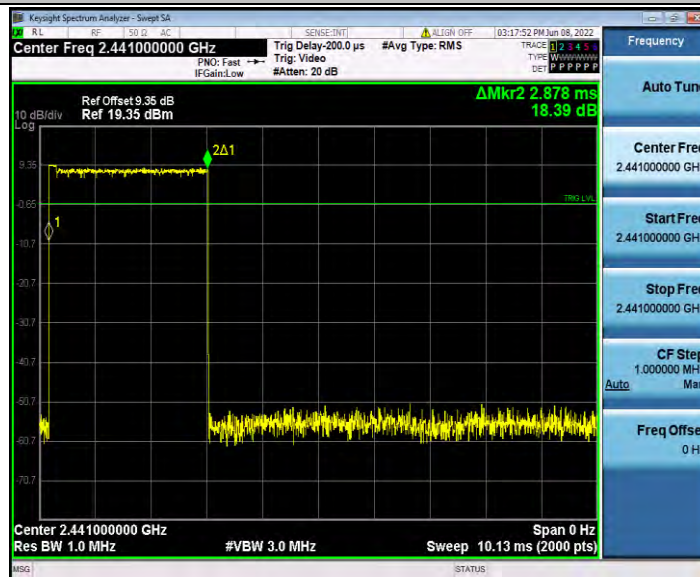
2DH1_Ant1_Hop

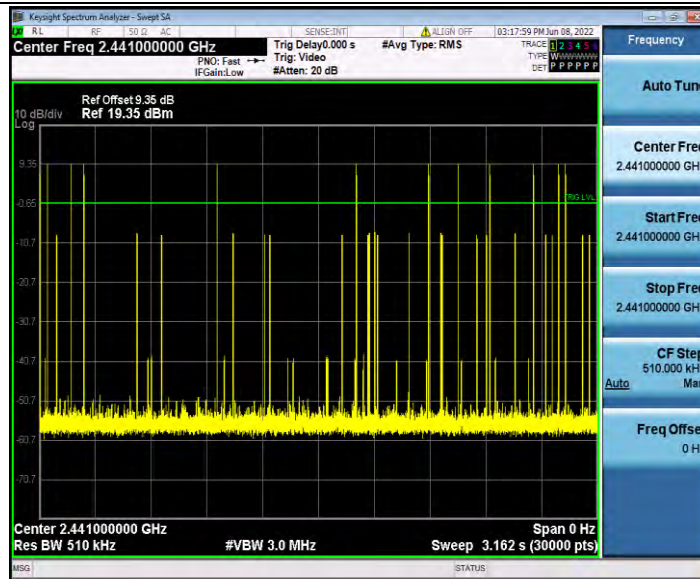


2DH3_Ant1_Hop

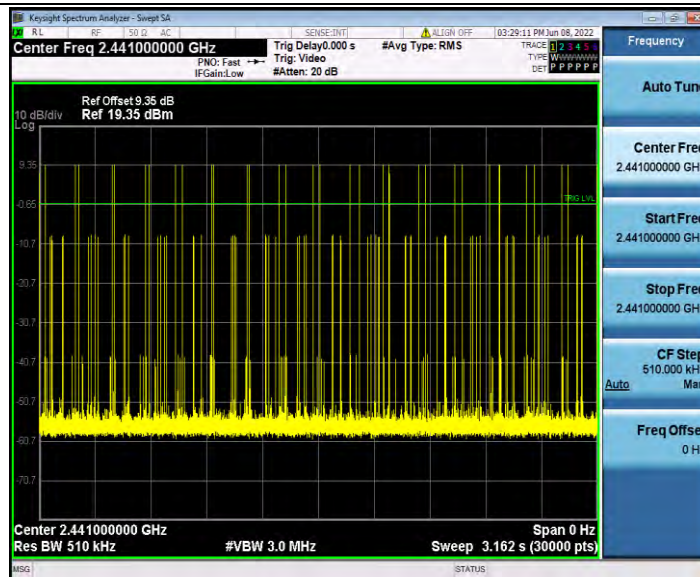
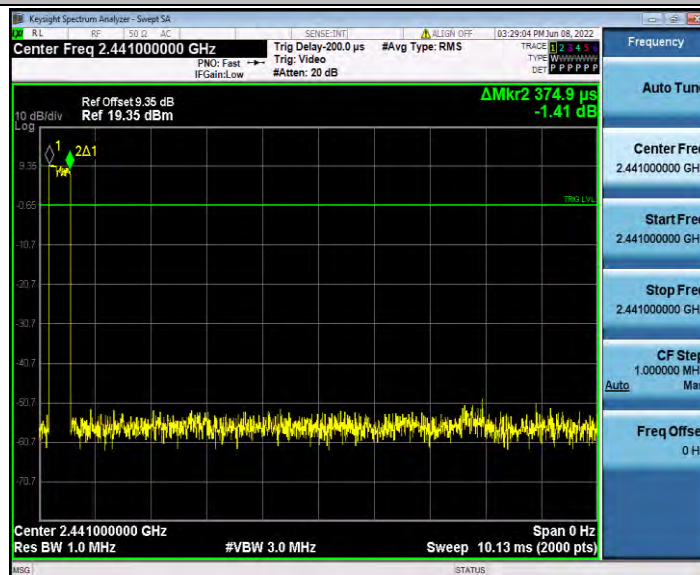


2DH5_Ant1_Hop

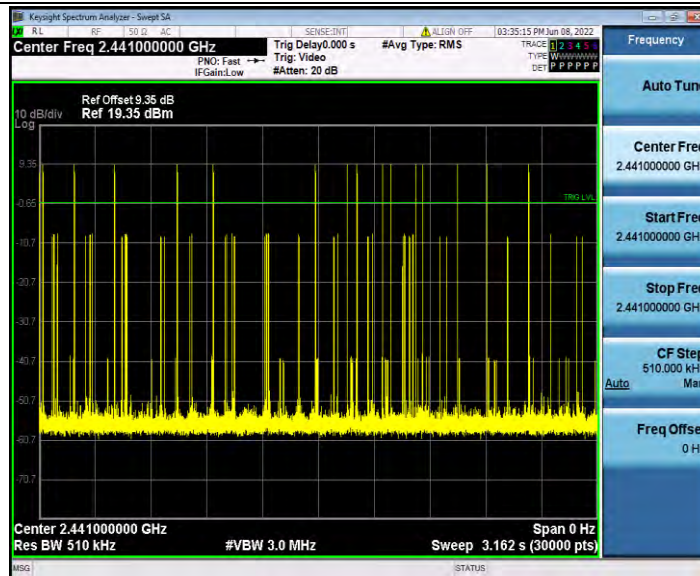
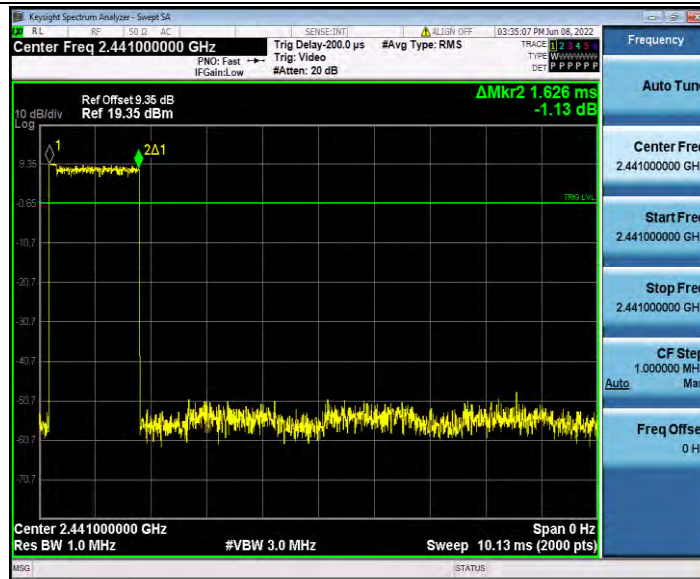




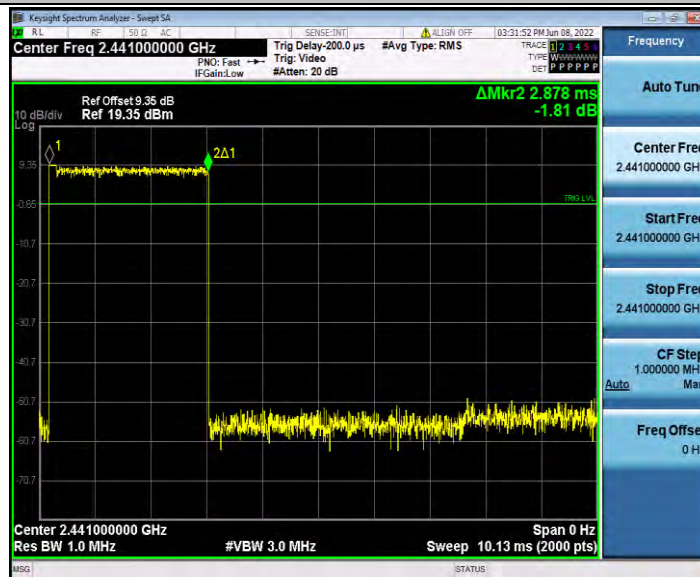
3DH1_Ant1_Hop

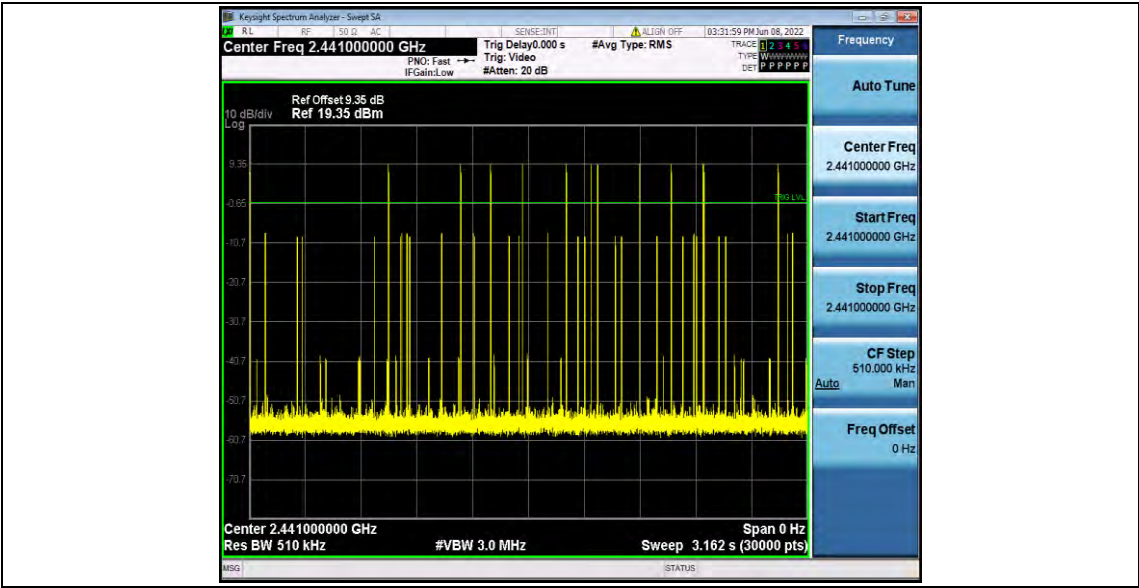


3DH3_Ant1_Hop



3DH5_Ant1_Hop





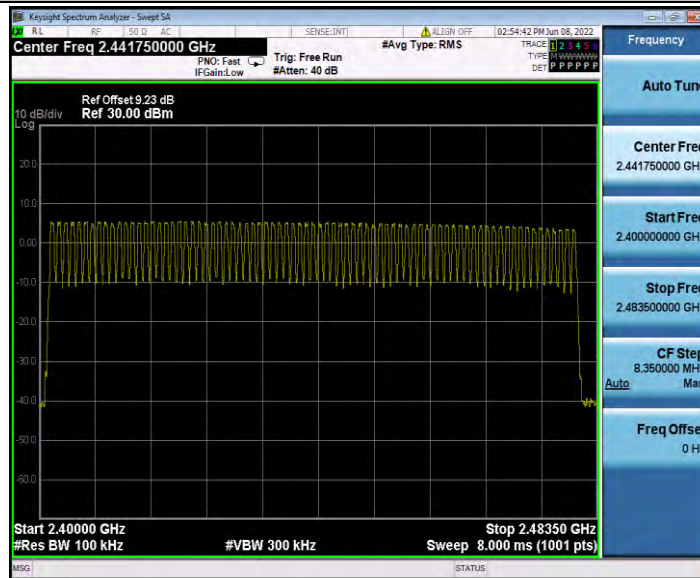
Appendix A.5: Number of hopping channels

Test Result

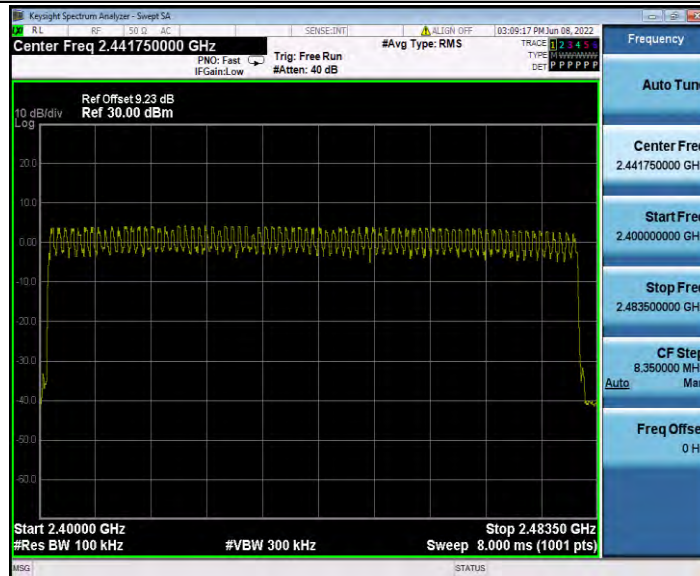
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Hop	79	≥15	PASS
2DH1	Ant1	Hop	79	≥15	PASS
3DH1	Ant1	Hop	79	≥15	PASS

Test Graphs

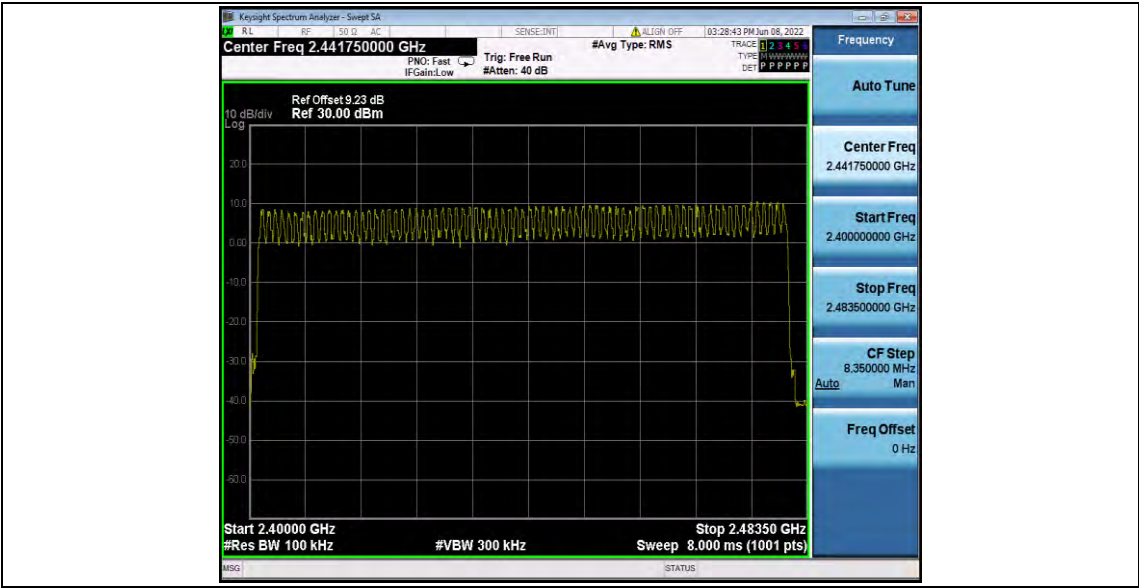
DH1_Ant1_Hop



2DH1_Ant1_Hop



3DH1_Ant1_Hop



Appendix A.6: Band edge measurements

Test Result

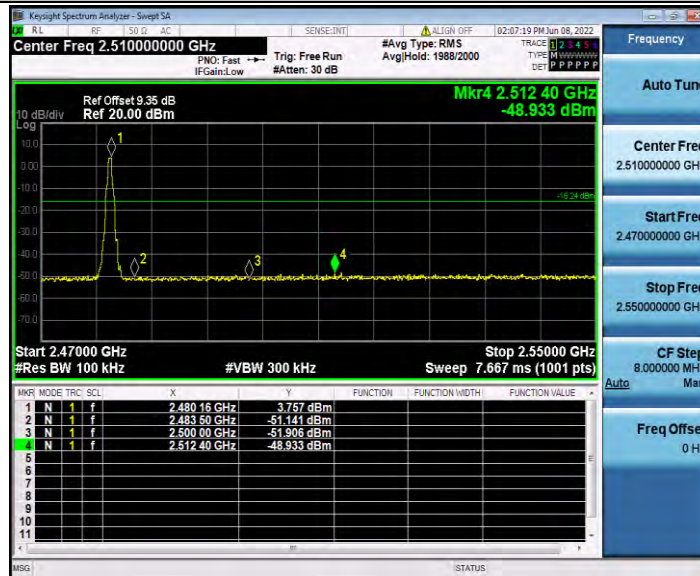
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	5.40	-36.2	≤-14.61	PASS
		High	2480	3.76	-48.93	≤-16.24	PASS
		Low	Hop_2402	4.48	-44.72	≤-15.52	PASS
		High	Hop_2480	3.99	-48.42	≤-16.01	PASS
2DH1	Ant1	Low	2402	3.86	-49.24	≤-16.14	PASS
		High	2480	2.55	-48.54	≤-17.45	PASS
		Low	Hop_2402	3.44	-49.62	≤-16.56	PASS
		High	Hop_2480	10.13	-48.68	≤-9.87	PASS
3DH1	Ant1	Low	2402	3.75	-49.18	≤-16.25	PASS
		High	2480	2.56	-48.51	≤-17.44	PASS
		Low	Hop_2402	8.20	-49.64	≤-11.8	PASS
		High	Hop_2480	9.83	-48.96	≤-10.17	PASS

Test Graphs

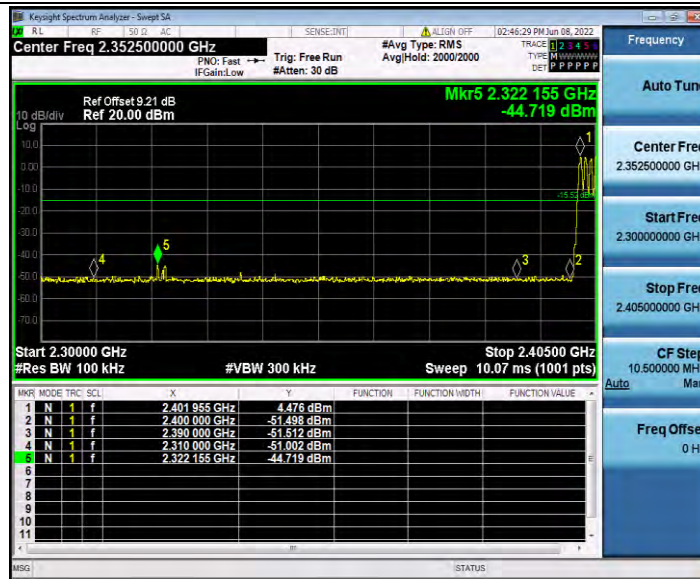
DH1_Ant1_Low_2402



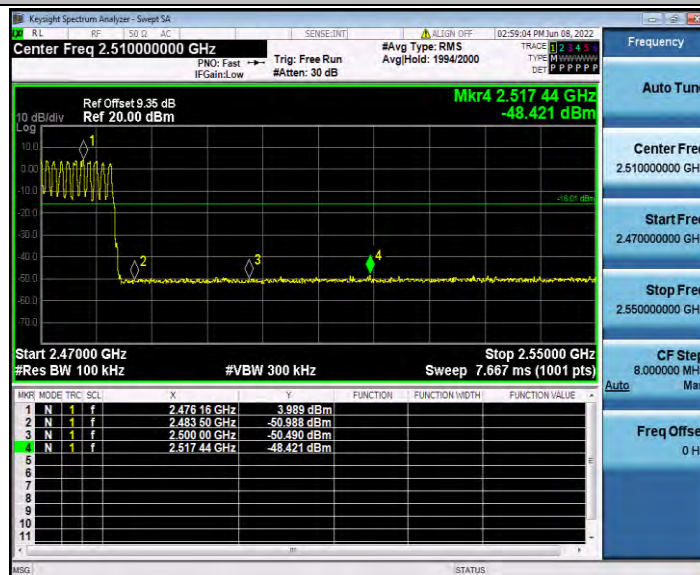
DH1_Ant1_High_2480



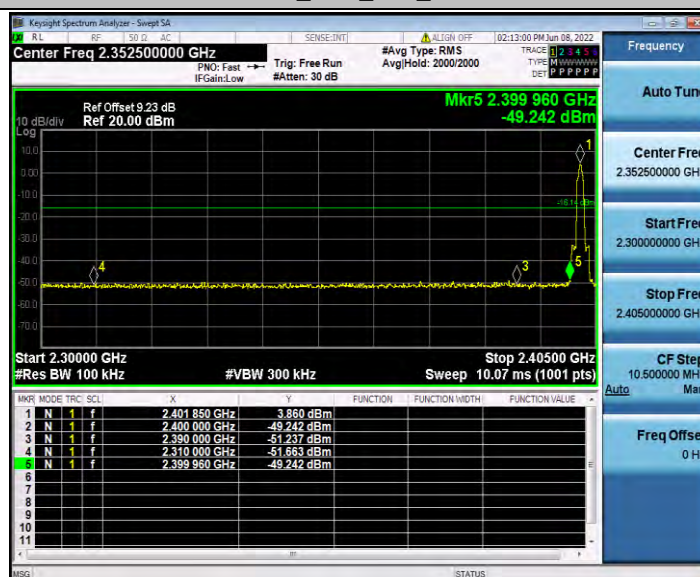
DH1_Ant1_Low_Hop_2402



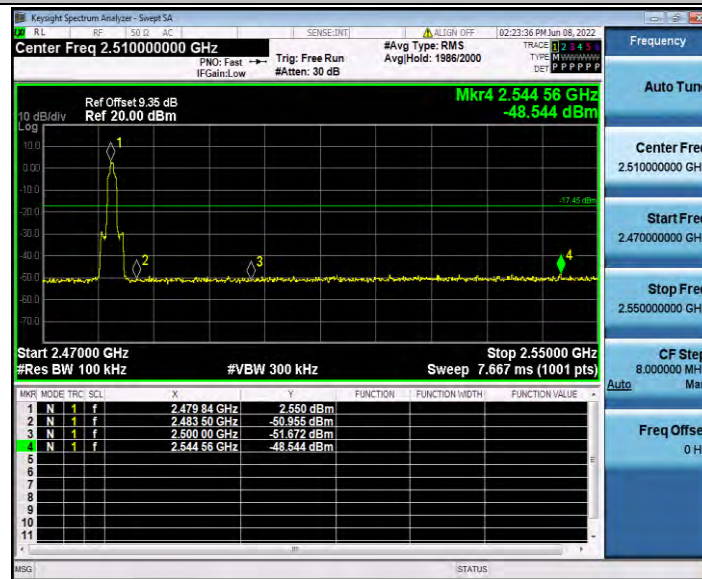
DH1_Ant1_High_Hop_2480



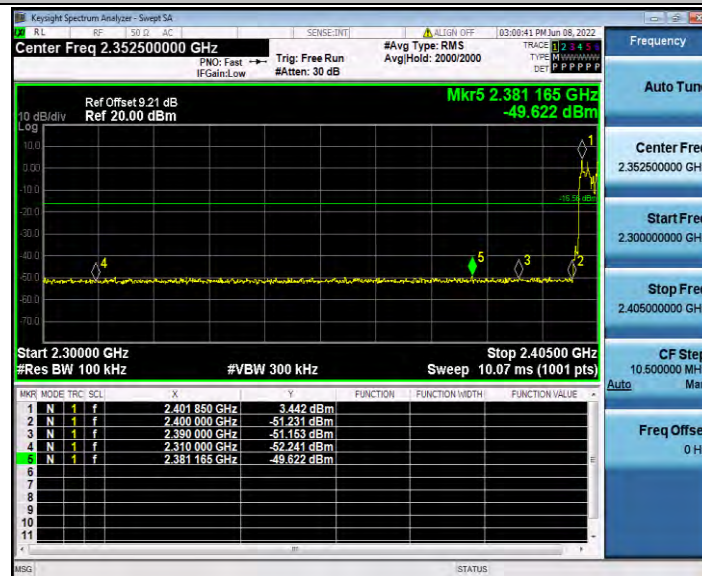
2DH1_Ant1_Low_2402



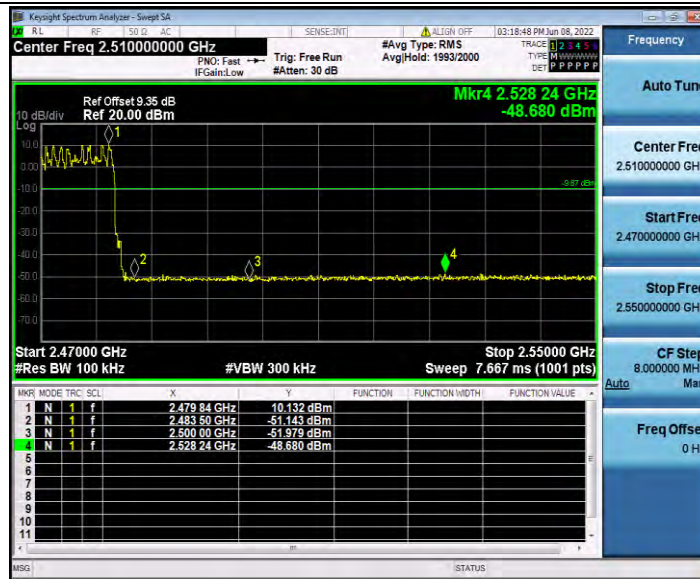
2DH1_Ant1_High_2480



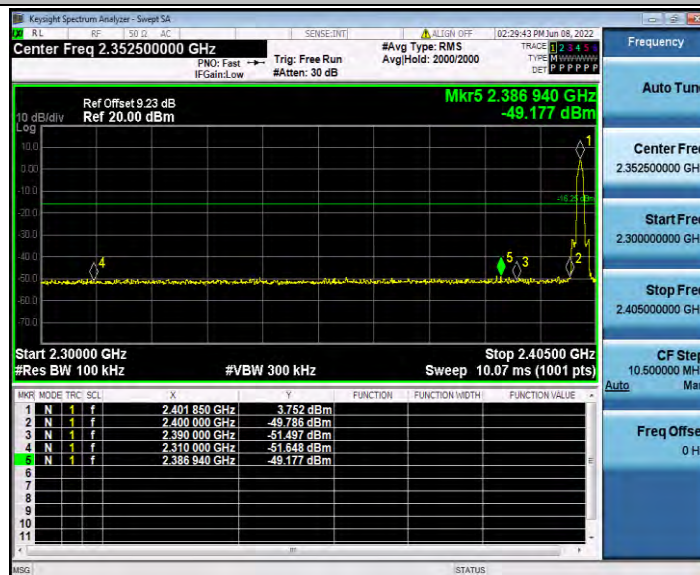
2DH1_Ant1_Low_Hop_2402



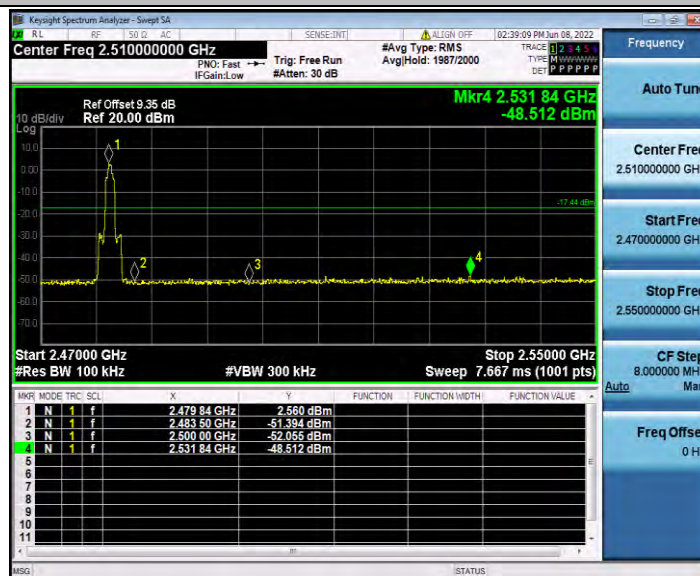
2DH1_Ant1_High_Hop_2480



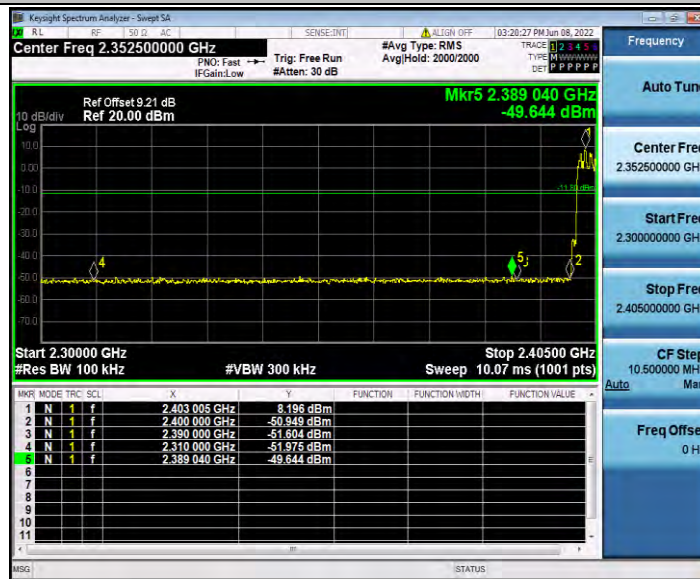
3DH1_Ant1_Low_2402



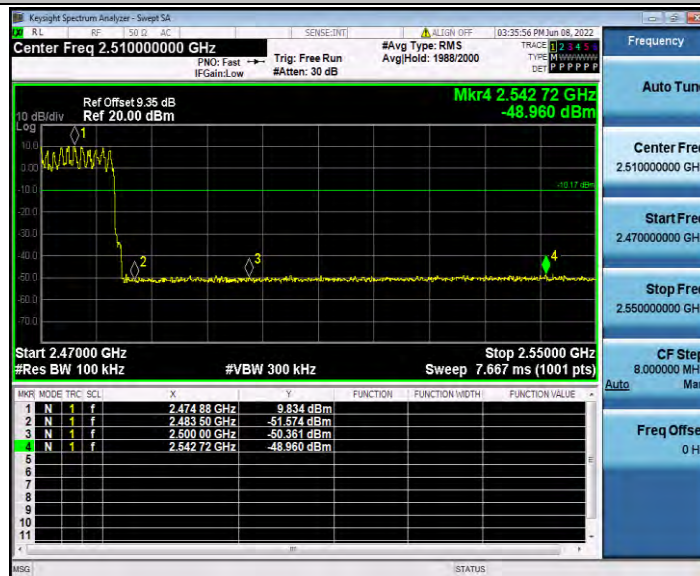
3DH1_Ant1_High_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480



Appendix A.7: Conducted Spurious Emission

Test Result

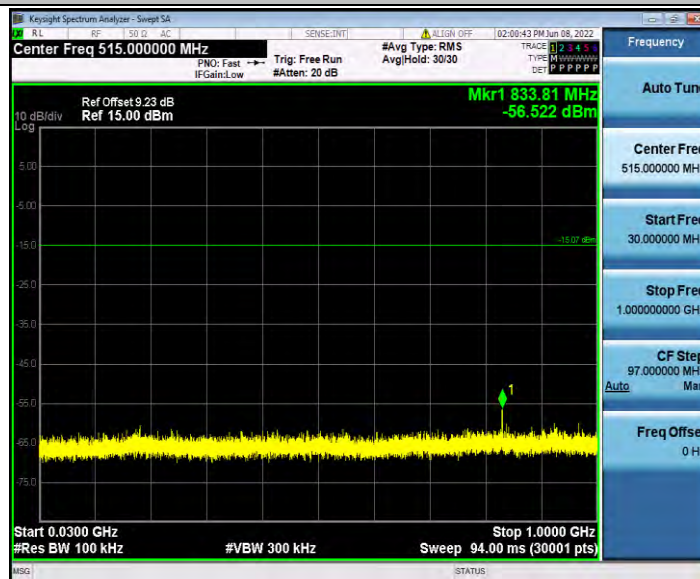
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	4.93	4.93	---	PASS
			30~1000	4.93	-56.52	≤-15.07	PASS
			1000~26500	4.93	-47.6	≤-15.07	PASS
		2441	Reference	4.94	4.94	---	PASS
			30~1000	4.94	-59.67	≤-15.06	PASS
			1000~26500	4.94	-47.45	≤-15.06	PASS
		2480	Reference	3.52	3.52	---	PASS
			30~1000	3.52	-60.36	≤-16.48	PASS
			1000~26500	3.52	-47.74	≤-16.48	PASS
2DH1	Ant1	2402	Reference	3.64	3.64	---	PASS
			30~1000	3.64	-60.46	≤-16.36	PASS
			1000~26500	3.64	-47.83	≤-16.36	PASS
		2441	Reference	3.92	3.92	---	PASS
			30~1000	3.92	-59.6	≤-16.08	PASS
			1000~26500	3.92	-47.61	≤-16.08	PASS
		2480	Reference	2.30	2.30	---	PASS
			30~1000	2.30	-59.61	≤-17.7	PASS
			1000~26500	2.30	-46.59	≤-17.7	PASS
3DH1	Ant1	2402	Reference	3.55	3.55	---	PASS
			30~1000	3.55	-59.93	≤-16.45	PASS
			1000~26500	3.55	-48.04	≤-16.45	PASS
		2441	Reference	3.25	3.25	---	PASS
			30~1000	3.25	-60.3	≤-16.75	PASS
			1000~26500	3.25	-47.91	≤-16.75	PASS
		2480	Reference	2.22	2.22	---	PASS
			30~1000	2.22	-60.63	≤-17.78	PASS
			1000~26500	2.22	-47.36	≤-17.78	PASS

Test Graphs

DH1_Ant1_2402_0~Reference



DH1_Ant1_2402_30~1000



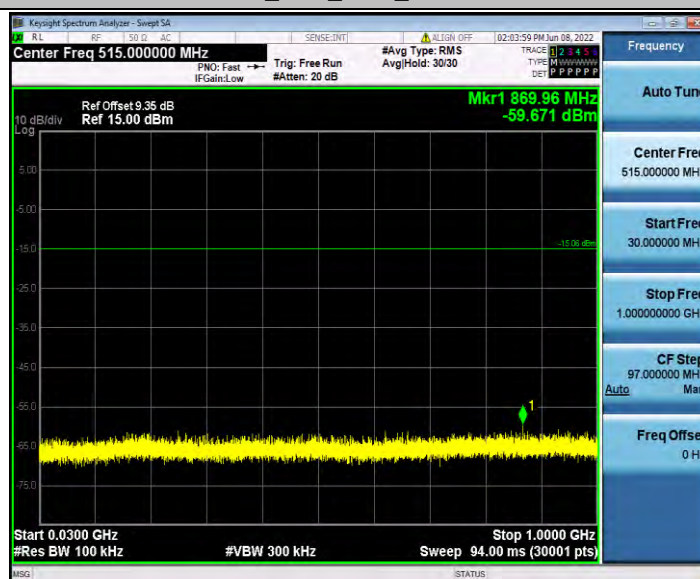
DH1_Ant1_2402_1000~26500



DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



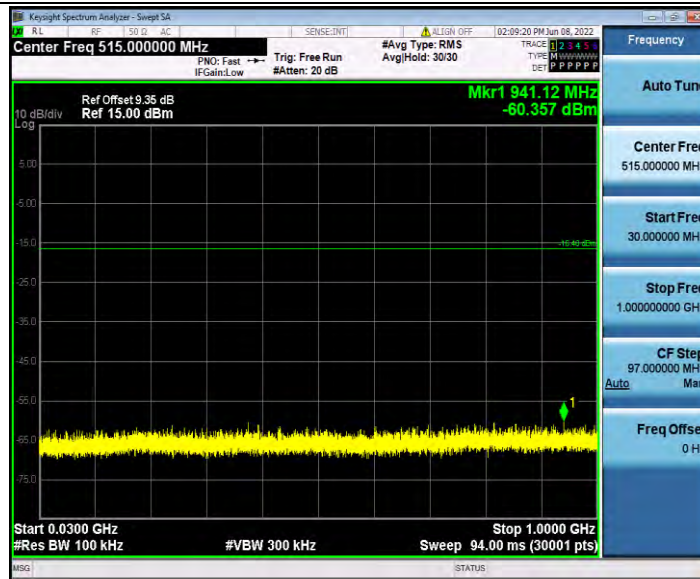
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000



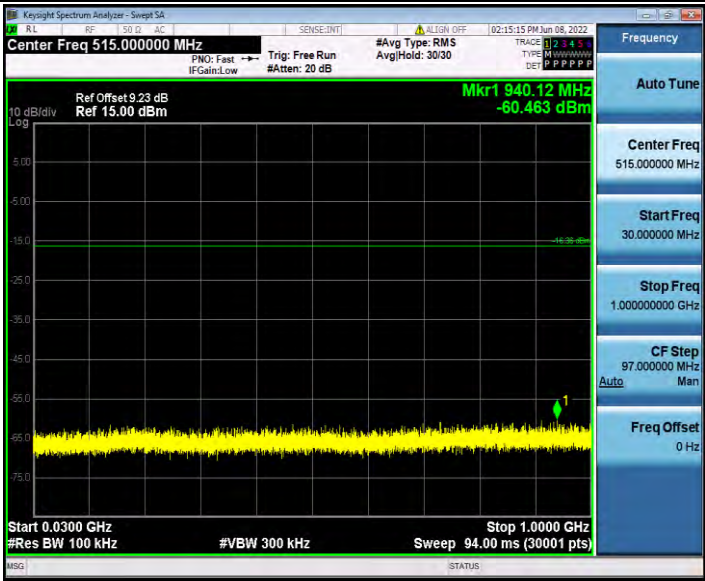
DH1_Ant1_2480_1000~26500



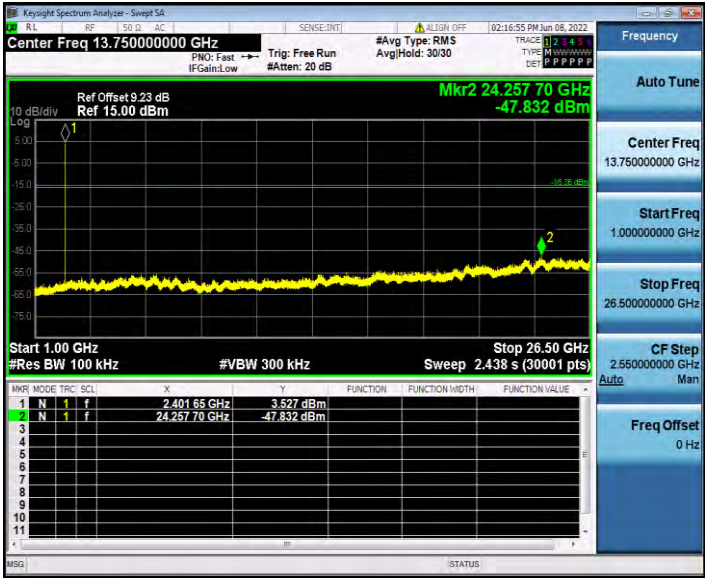
2DH1_Ant1_2402_0~Reference



2DH1_Ant1_2402_30~1000



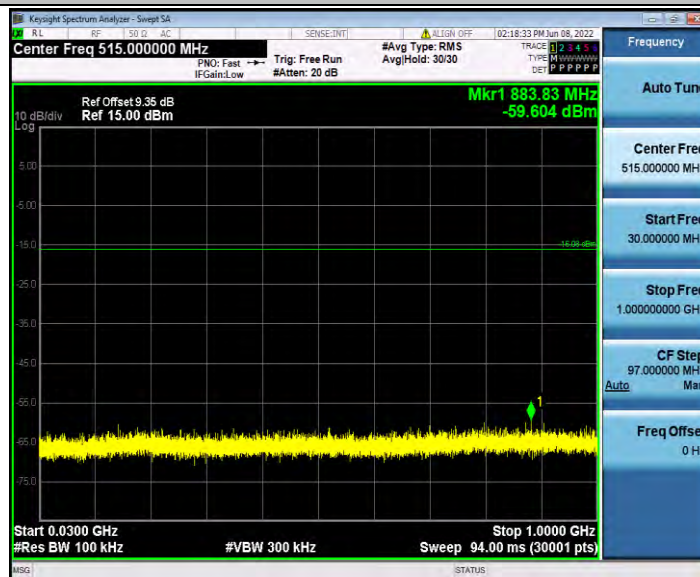
2DH1_Ant1_2402_1000~26500



2DH1_Ant1_2441_0~Reference



2DH1_Ant1_2441_30~1000



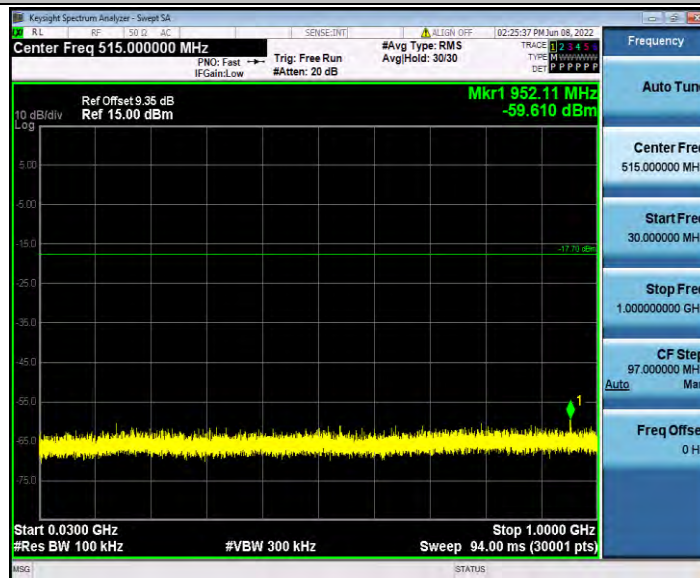
2DH1_Ant1_2441_1000~26500



2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



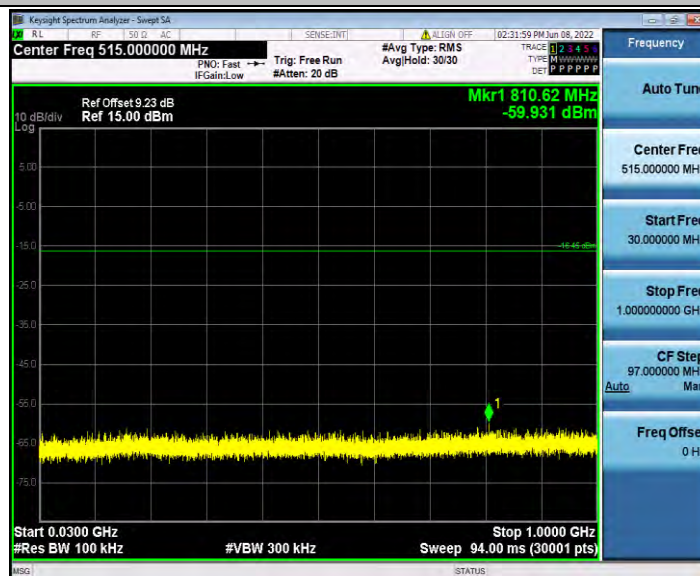
2DH1_Ant1_2480_1000~26500



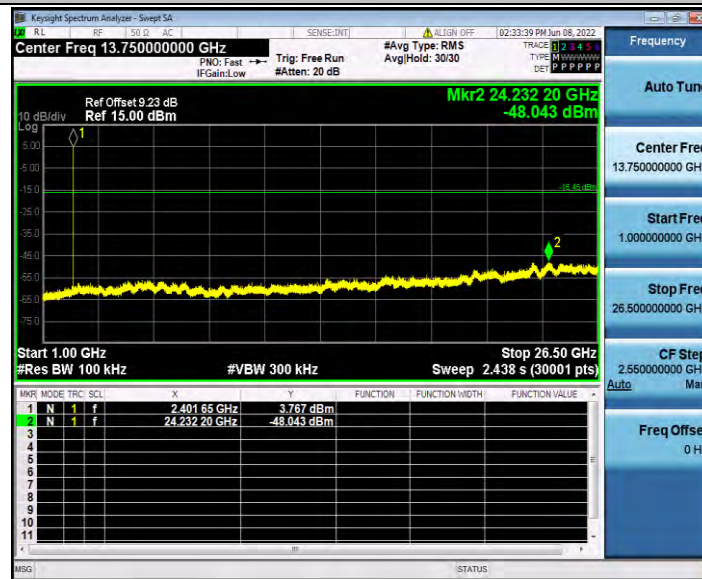
3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



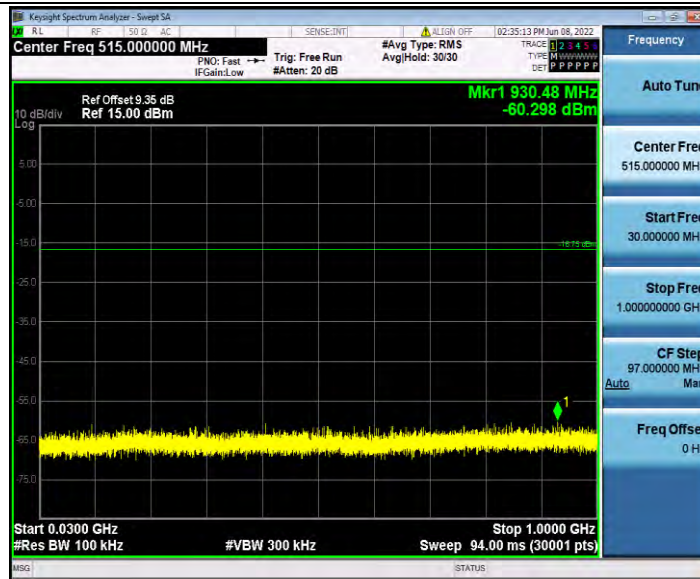
3DH1_Ant1_2402_1000~26500



3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000



3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference



