

Case No. : GTS20220704019-1-1	
Ambient Condition: 24 °C, 52 %RH,	
Test Date: 2022.8.10	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	0.942	2401.553	2402.495	---	---
		2441	1.020	2440.481	2441.501	---	---
		2480	0.924	2479.553	2480.477	---	---
2DH1	Ant1	2402	1.197	2401.403	2402.600	---	---
		2441	1.248	2440.388	2441.636	---	---
		2480	1.209	2479.385	2480.594	---	---
3DH1	Ant1	2402	1.197	2401.412	2402.609	---	---
		2441	1.212	2440.412	2441.624	---	---
		2480	1.206	2479.421	2480.627	---	---

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.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.90592	2401.564	2402.469	---	---
		2441	0.90272	2440.564	2441.467	---	---
		2480	0.90137	2479.565	2480.466	---	---
2DH1	Ant1	2402	1.1575	2401.423	2402.581	---	---
		2441	1.1566	2440.425	2441.581	---	---
		2480	1.1496	2479.428	2480.578	---	---
3DH1	Ant1	2402	1.1512	2401.441	2402.592	---	---
		2441	1.1459	2440.443	2441.589	---	---
		2480	1.1481	2479.444	2480.592	---	---

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: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant1	2402	6.59	≤20.97	PASS
		2441	6.73	≤20.97	PASS
		2480	6.12	≤20.97	PASS
2DH1	Ant1	2402	6.67	≤20.97	PASS
		2441	6.82	≤20.97	PASS
		2480	6.21	≤20.97	PASS
3DH1	Ant1	2402	6.61	≤20.97	PASS
		2441	6.73	≤20.97	PASS
		2480	6.17	≤20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.998	≥ 0.680	PASS
		Hop_2441	1.000	≥ 0.680	PASS
		Hop_2480	1.000	≥ 0.680	PASS
2DH1	Ant1	Hop_2402	0.844	≥ 0.832	PASS
		Hop_2441	1.000	≥ 0.832	PASS
		Hop_2480	0.994	≥ 0.832	PASS
3DH1	Ant1	Hop_2402	0.984	≥ 0.808	PASS
		Hop_2441	0.996	≥ 0.808	PASS
		Hop_2480	1.000	≥ 0.808	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



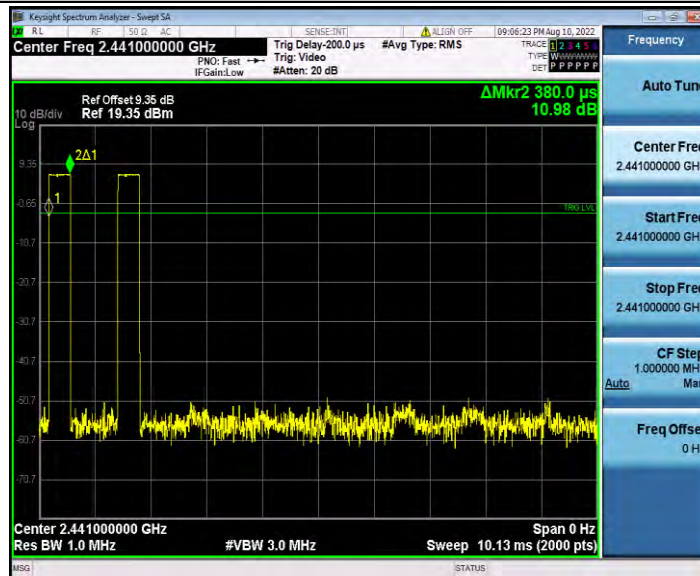
Appendix A.5: Time of occupancy

Test Result

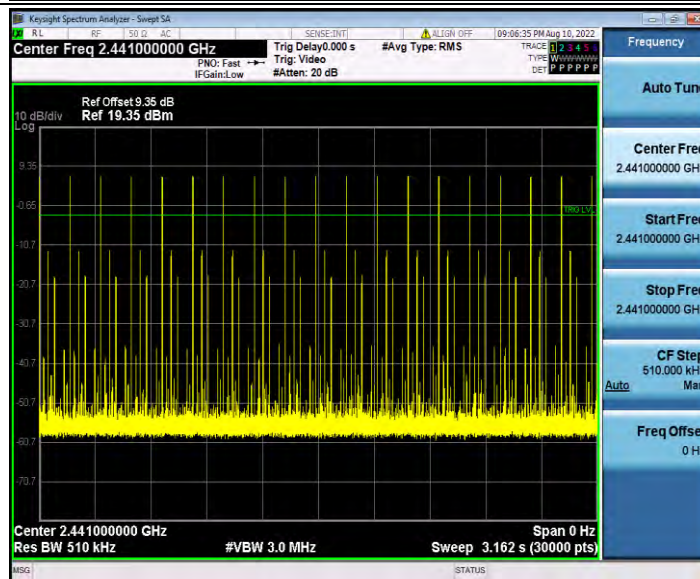
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	310	0.118	≤0.4	PASS
DH3	Ant1	Hop	1.64	160	0.262	≤0.4	PASS
DH5	Ant1	Hop	2.88	130	0.375	≤0.4	PASS
2DH1	Ant1	Hop	0.38	320	0.122	≤0.4	PASS
2DH3	Ant1	Hop	1.63	170	0.277	≤0.4	PASS
2DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS
3DH1	Ant1	Hop	0.38	300	0.114	≤0.4	PASS
3DH3	Ant1	Hop	1.63	170	0.276	≤0.4	PASS
3DH5	Ant1	Hop	2.88	120	0.345	≤0.4	PASS

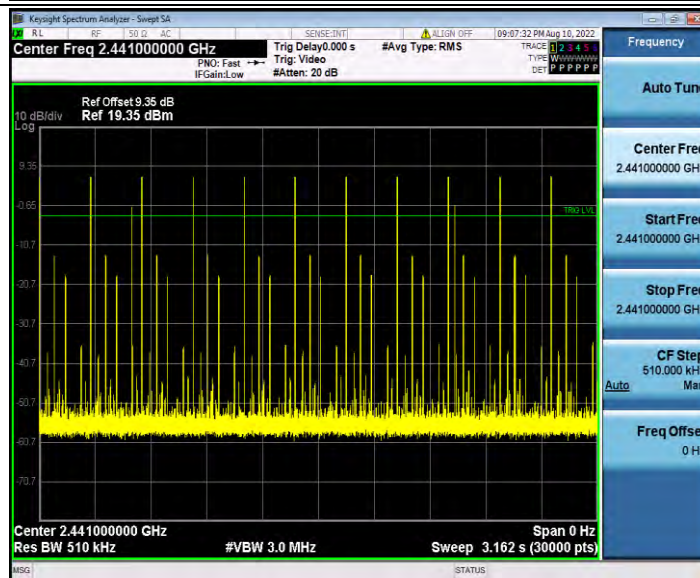
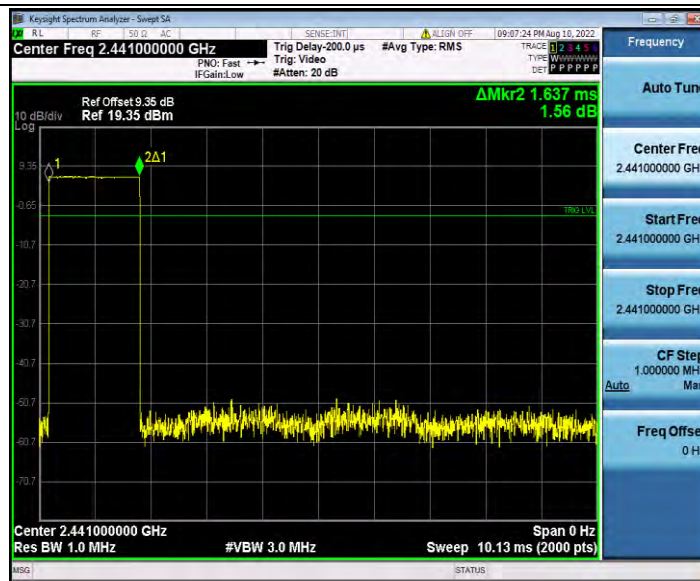
Test Graphs

DH1_Ant1_Hop

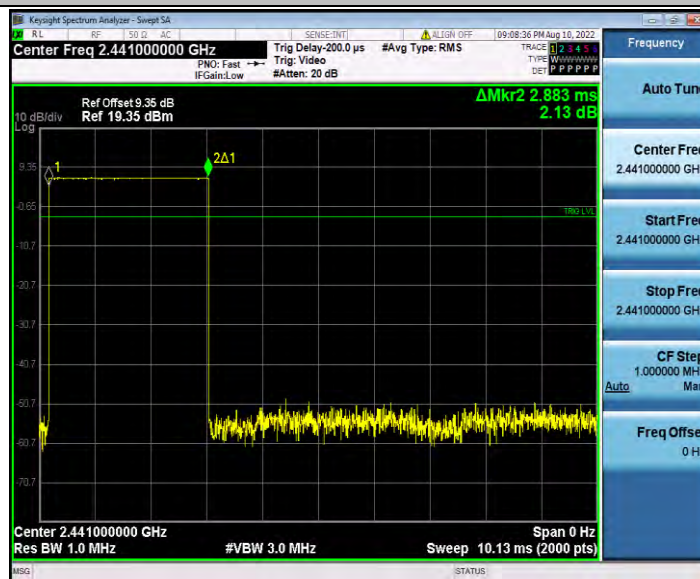


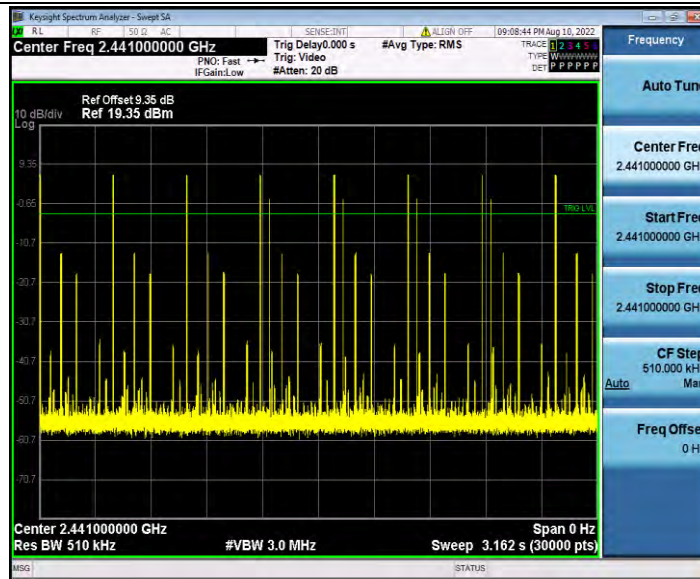
DH3_Ant1_Hop



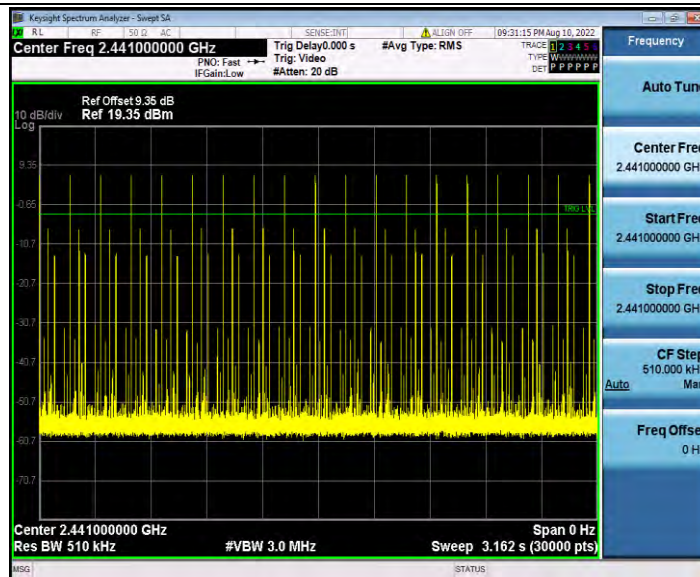
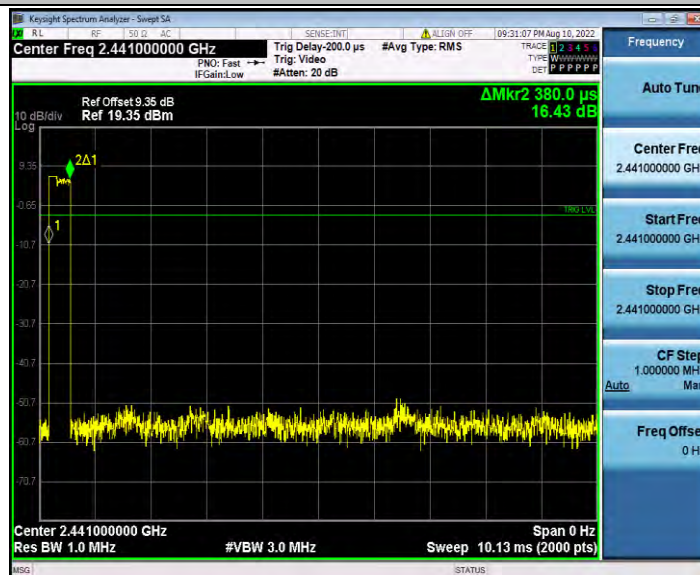


DH5_Ant1_Hop

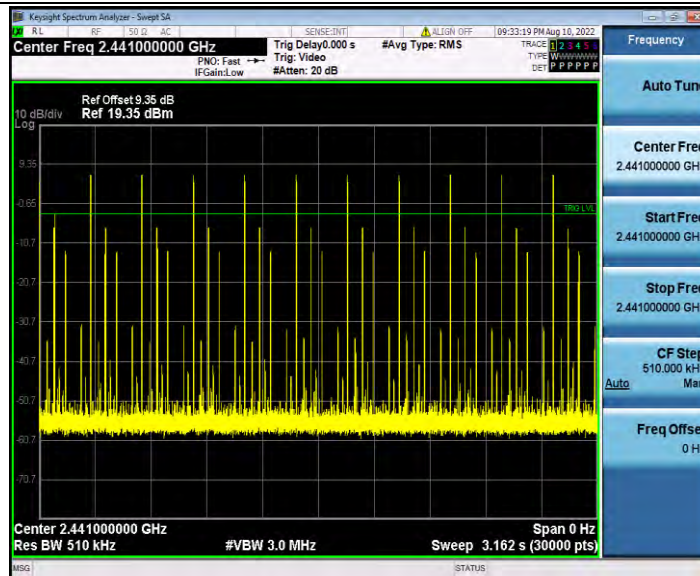
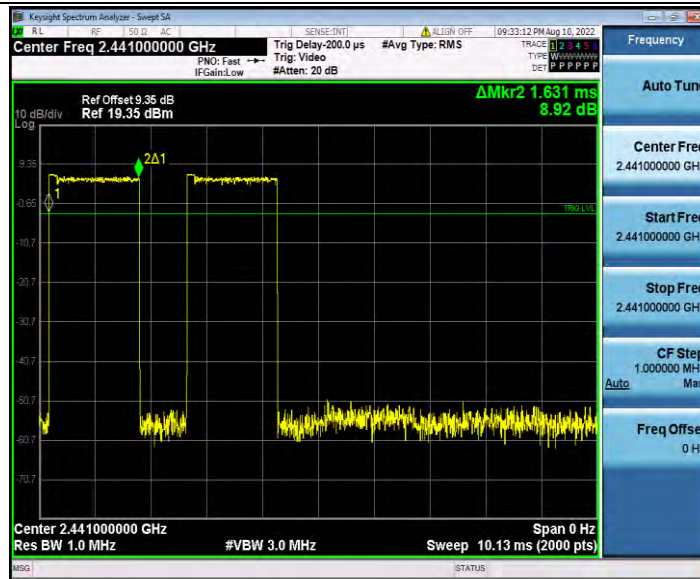




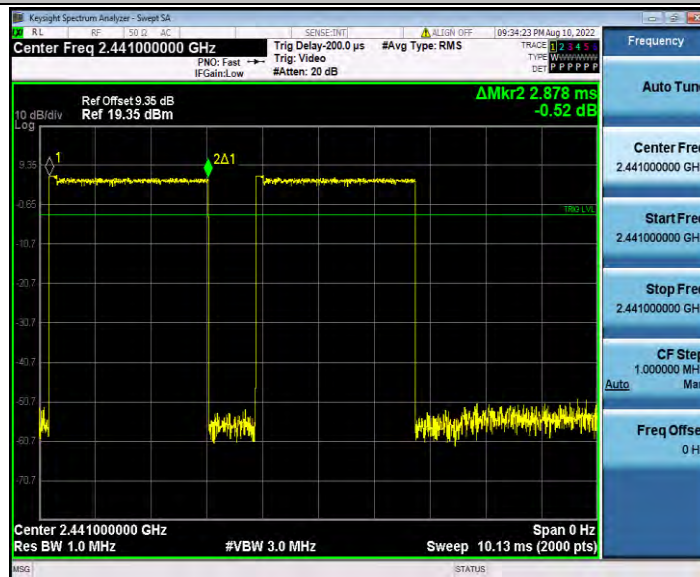
2DH1_Ant1_Hop

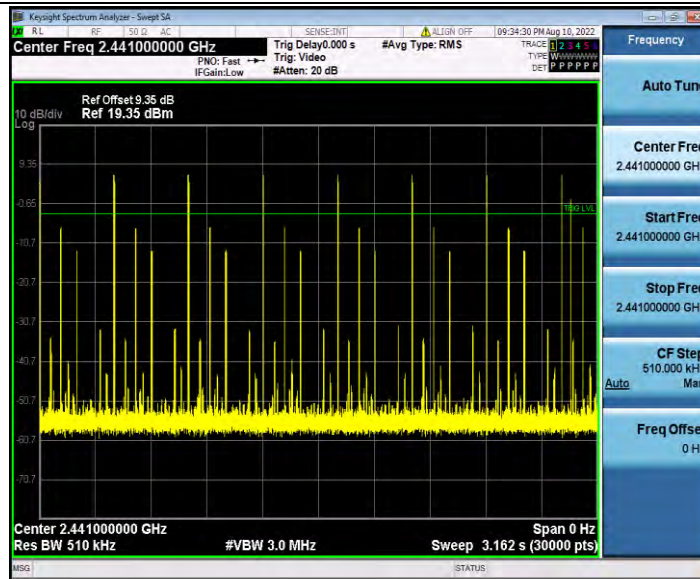


2DH3_Ant1_Hop

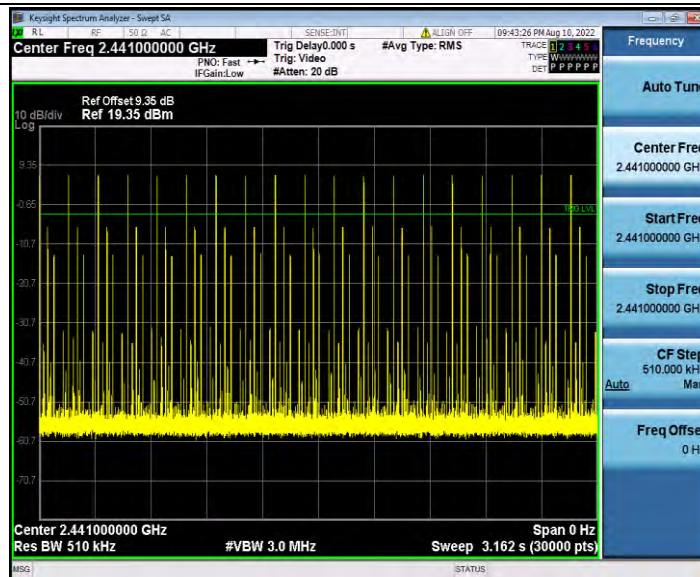
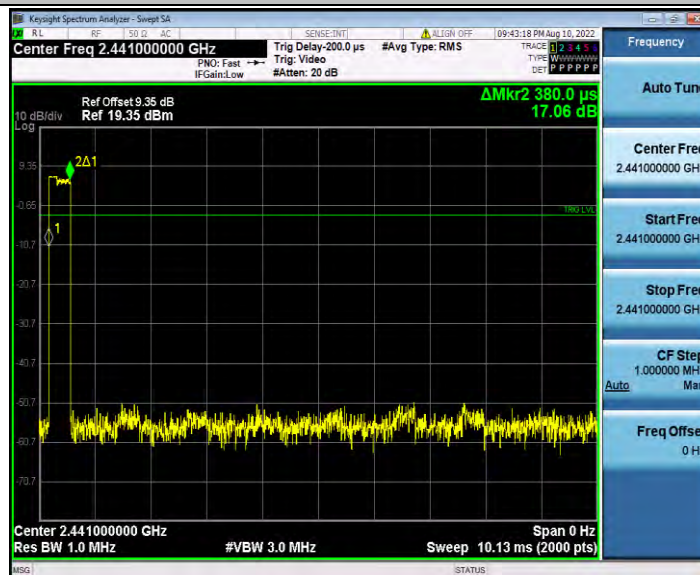


2DH5_Ant1_Hop

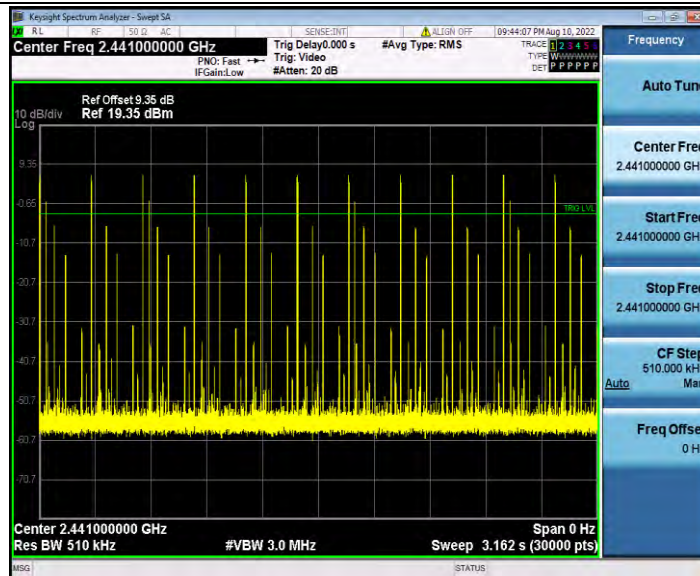
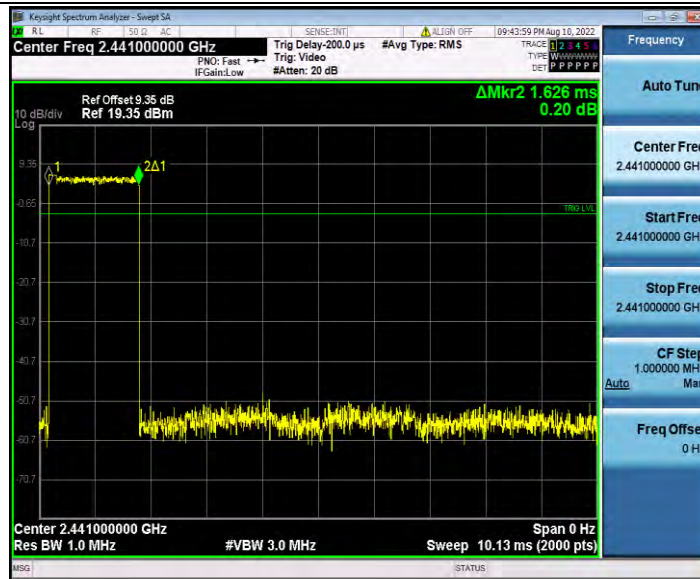




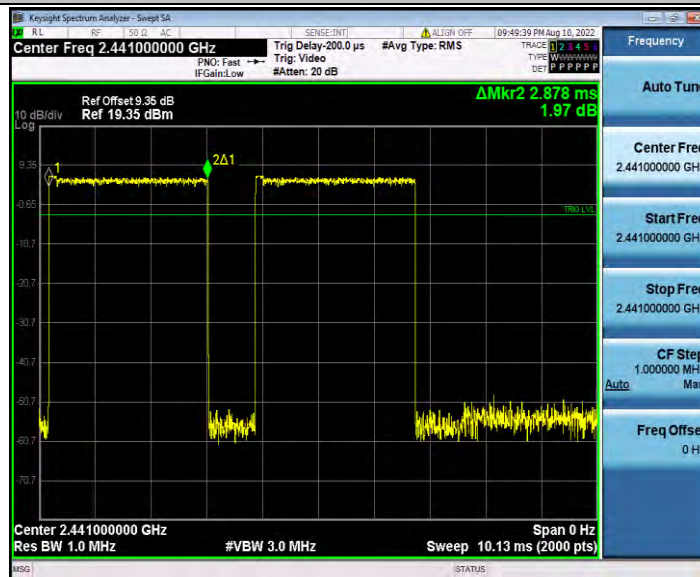
3DH1_Ant1_Hop

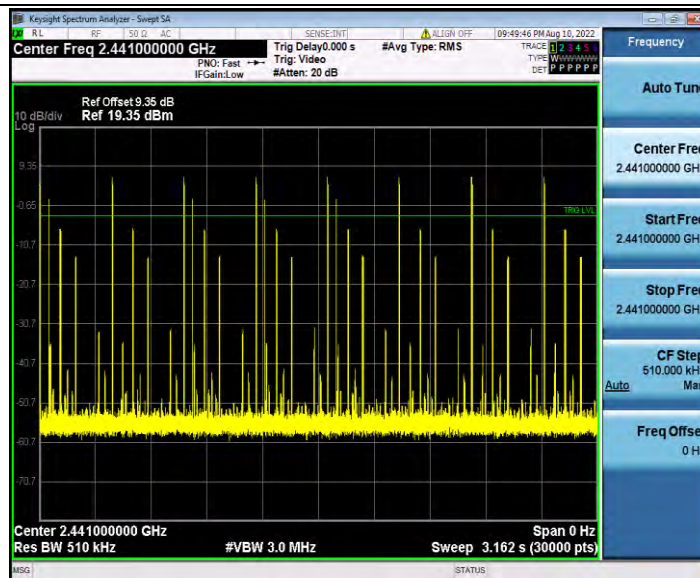


3DH3_Ant1_Hop



3DH5_Ant1_Hop





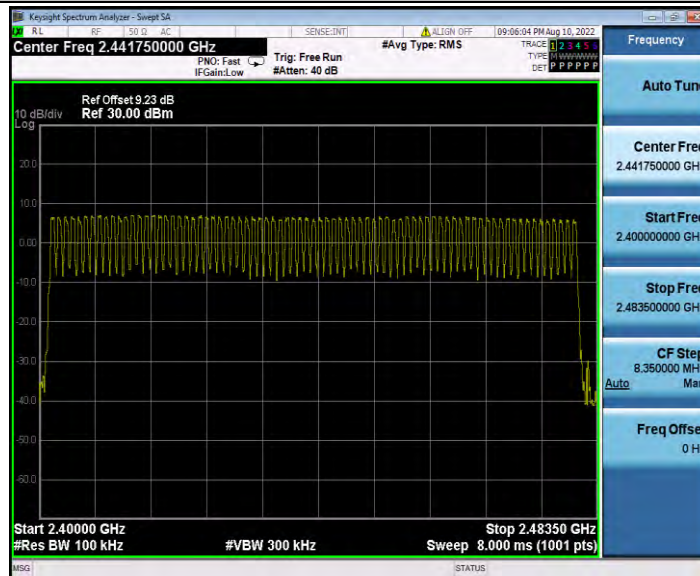
Appendix A.6: Number of hopping channels

Test Result

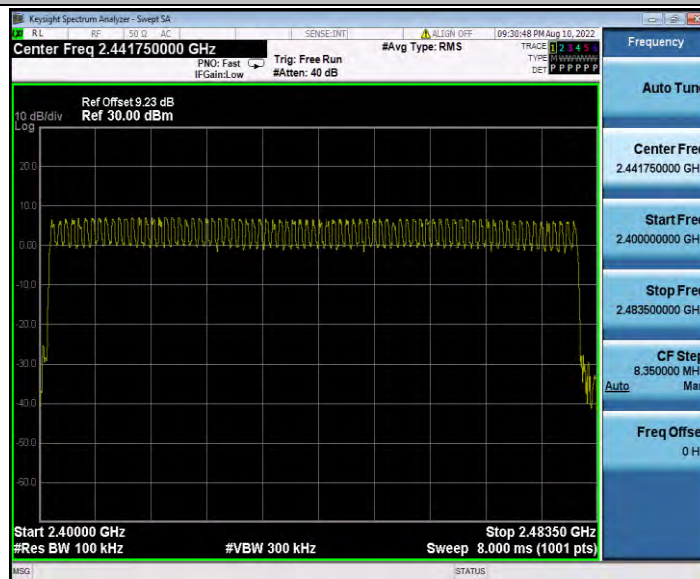
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Hop	79	≥15	PASS
2DH1	Ant1	Hop	79	≥15	PASS
3DH1	Ant1	Hop	79	≥15	PASS

Test Graphs

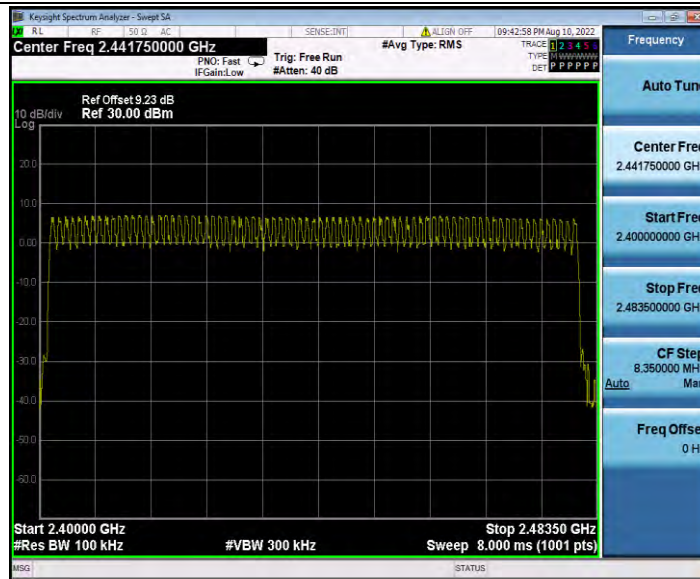
DH1_Ant1_Hop



2DH1_Ant1_Hop



3DH1_Ant1_Hop



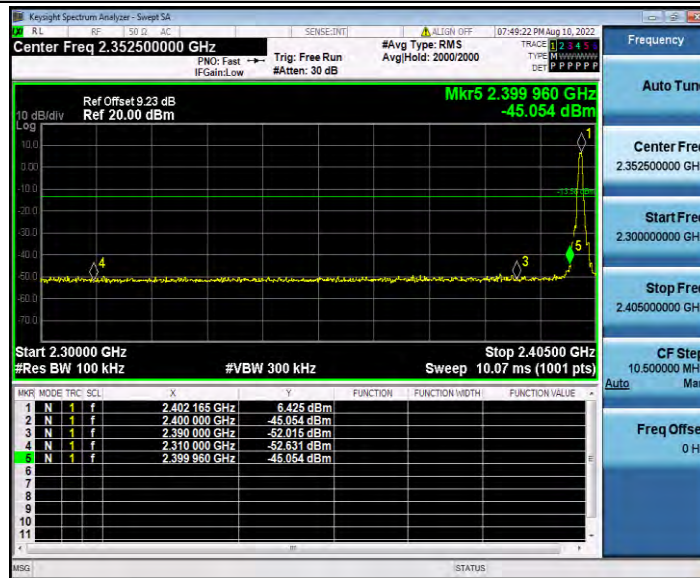
Appendix A.7: Band edge measurements

Test Result

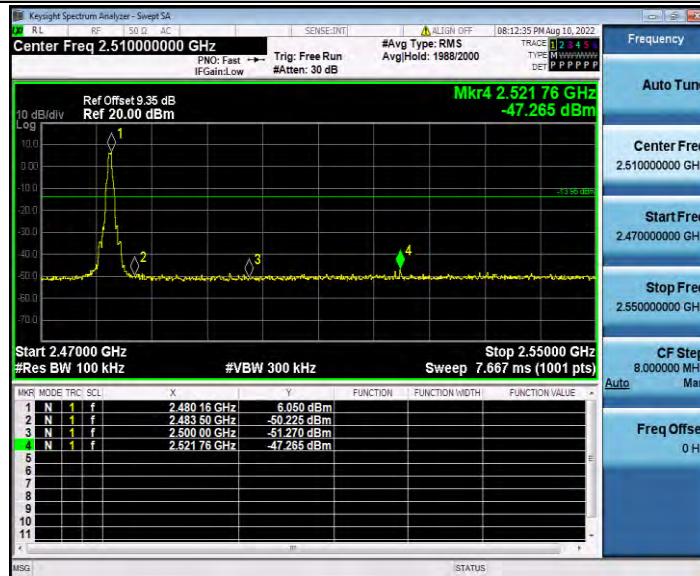
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	6.43	-45.05	≤-13.58	PASS
		High	2480	6.05	-47.27	≤-13.95	PASS
		Low	Hop_2402	5.98	-46.55	≤-14.02	PASS
		High	Hop_2480	6.31	-48.8	≤-13.69	PASS
2DH1	Ant1	Low	2402	6.30	-42.06	≤-13.7	PASS
		High	2480	6.07	-48.75	≤-13.93	PASS
		Low	Hop_2402	6.54	-46.08	≤-13.46	PASS
		High	Hop_2480	6.25	-43.63	≤-13.75	PASS
3DH1	Ant1	Low	2402	6.40	-41.93	≤-13.6	PASS
		High	2480	6.04	-48.34	≤-13.96	PASS
		Low	Hop_2402	6.55	-46.38	≤-13.45	PASS
		High	Hop_2480	6.31	-42.85	≤-13.69	PASS

Test Graphs

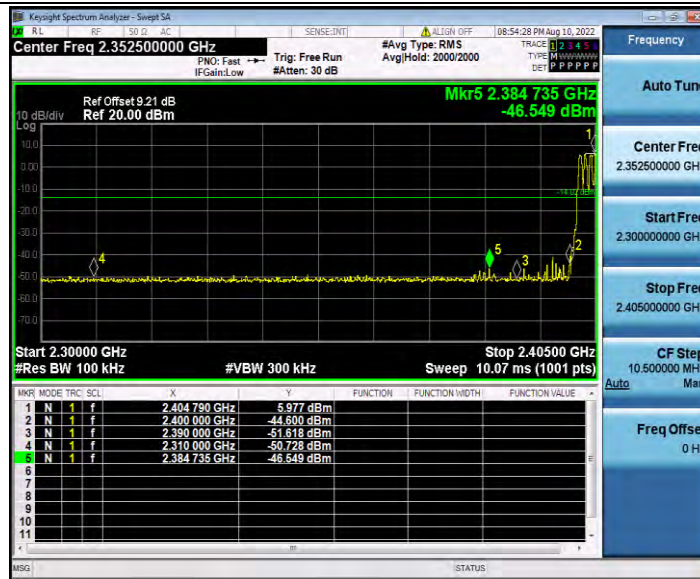
DH1_Ant1_Low_2402



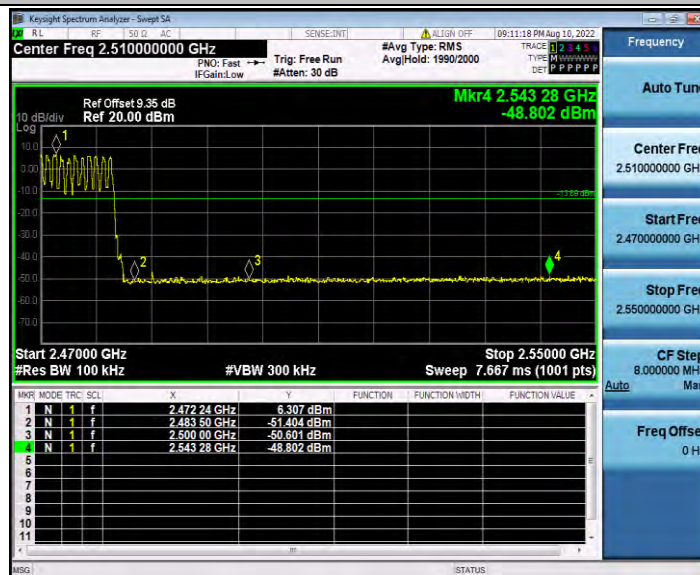
DH1_Ant1_High_2480



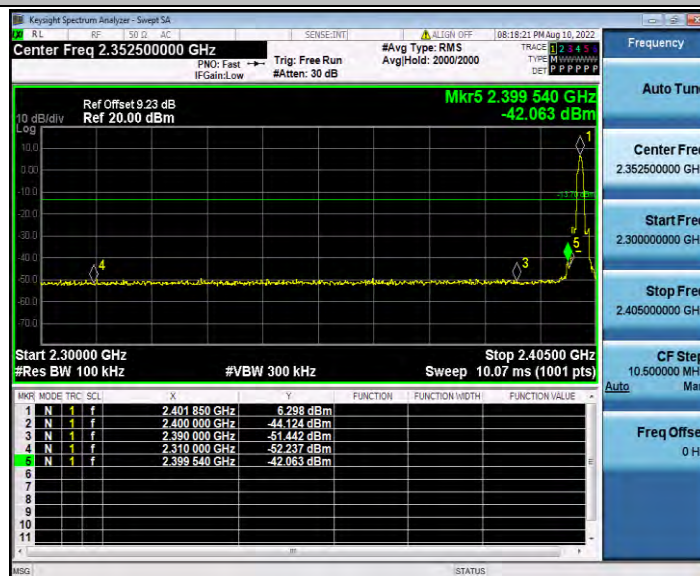
DH1_Ant1_Low_Hop_2402



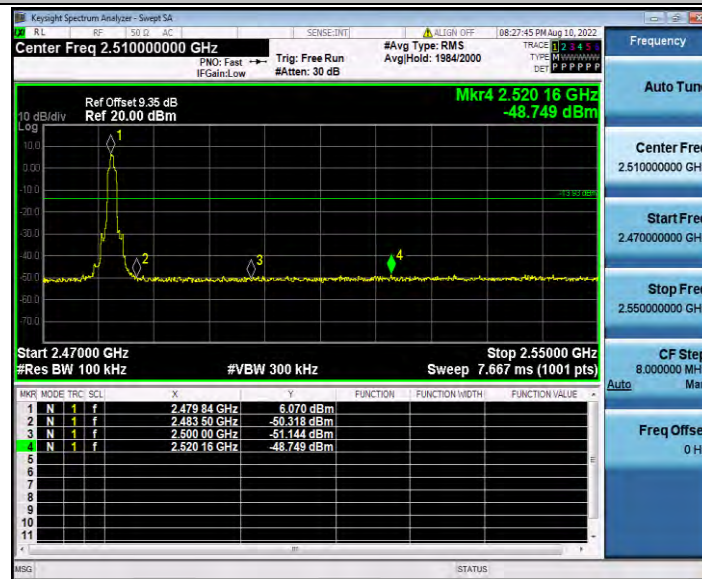
DH1_Ant1_High_Hop_2480



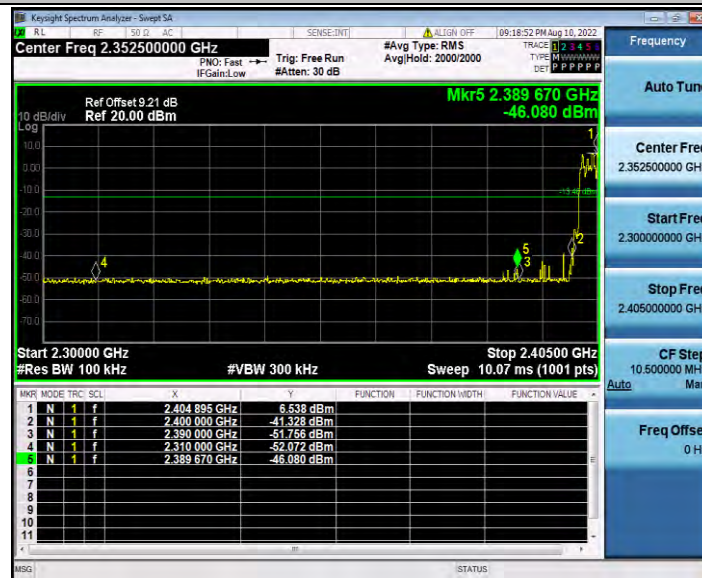
2DH1_Ant1_Low_2402



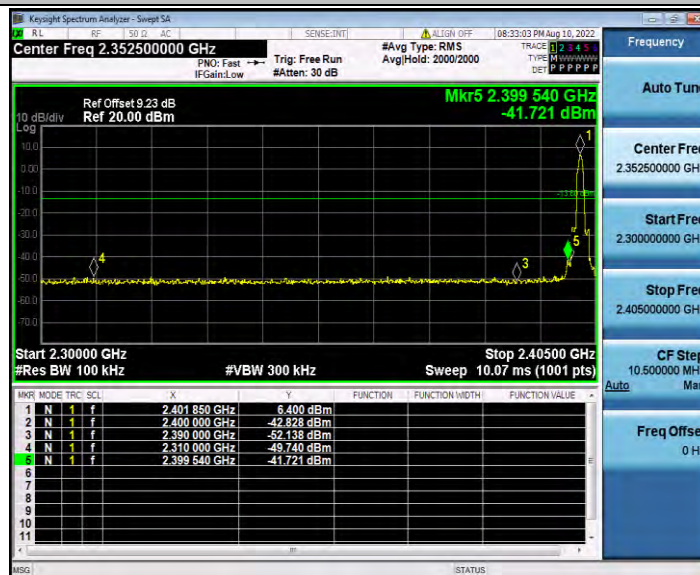
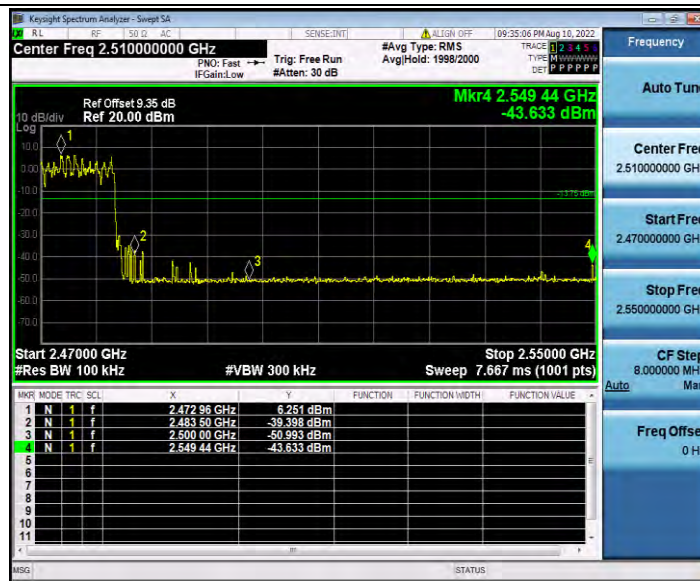
2DH1_Ant1_High_2480



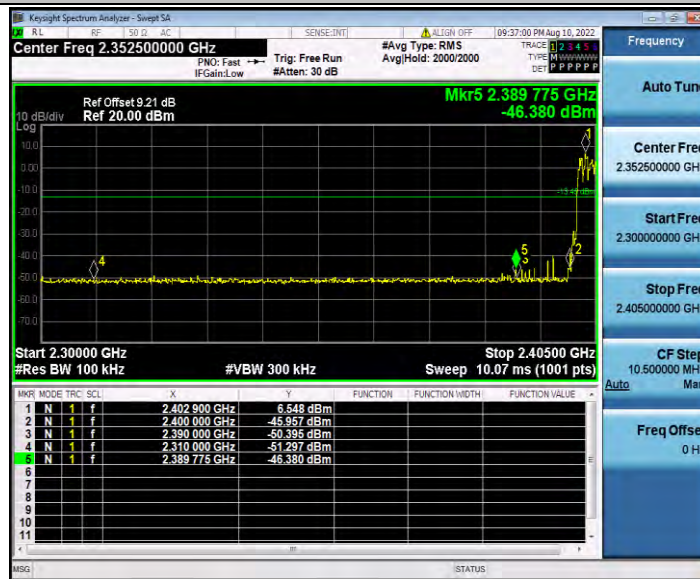
2DH1_Ant1_Low_Hop_2402



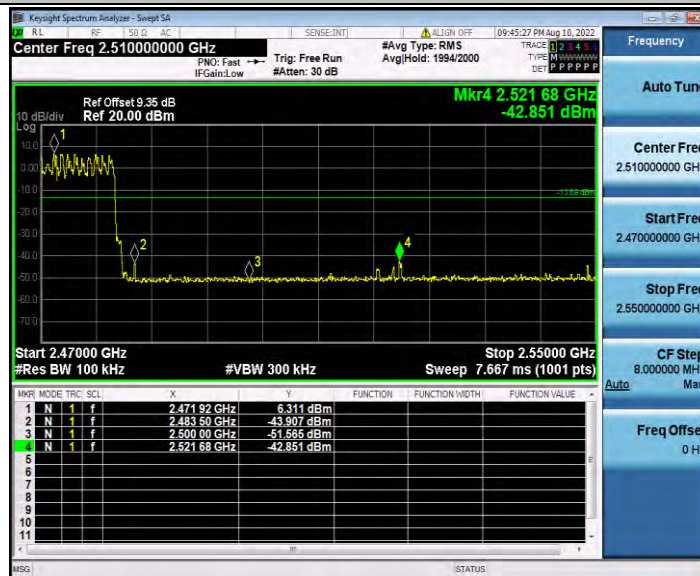
2DH1_Ant1_High_Hop_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480



Appendix A.8: Conducted Spurious Emission

Test Result

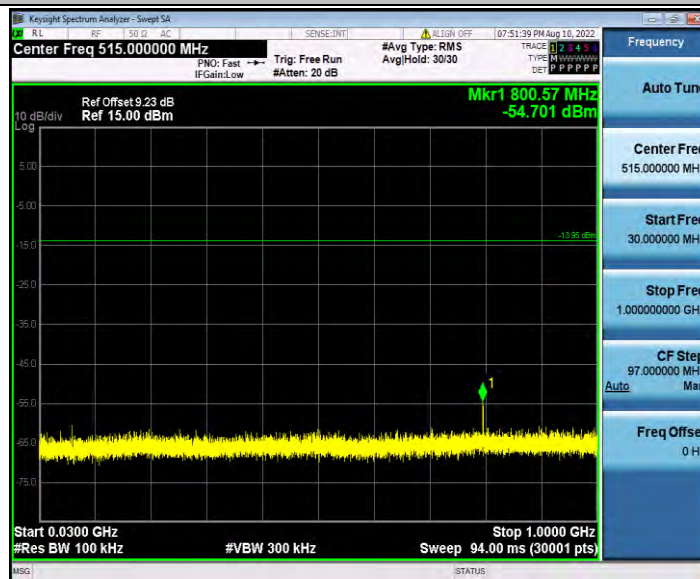
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	6.05	6.05	---	PASS
			30~1000	6.05	-54.7	≤-13.95	PASS
			1000~26500	6.05	-31.37	≤-13.95	PASS
		2441	Reference	6.26	6.26	---	PASS
			30~1000	6.26	-54.87	≤-13.74	PASS
			1000~26500	6.26	-34.87	≤-13.74	PASS
		2480	Reference	5.76	5.76	---	PASS
			30~1000	5.76	-54.08	≤-14.24	PASS
			1000~26500	5.76	-33.4	≤-14.24	PASS
2DH1	Ant1	2402	Reference	6.27	6.27	---	PASS
			30~1000	6.27	-56.9	≤-13.73	PASS
			1000~26500	6.27	-31.98	≤-13.73	PASS
		2441	Reference	6.27	6.27	---	PASS
			30~1000	6.27	-55.65	≤-13.73	PASS
			1000~26500	6.27	-31.01	≤-13.73	PASS
		2480	Reference	4.91	4.91	---	PASS
			30~1000	4.91	-57.1	≤-15.09	PASS
			1000~26500	4.91	-34.06	≤-15.09	PASS
3DH1	Ant1	2402	Reference	5.66	5.66	---	PASS
			30~1000	5.66	-57.93	≤-14.34	PASS
			1000~26500	5.66	-30.37	≤-14.34	PASS
		2441	Reference	6.39	6.39	---	PASS
			30~1000	6.39	-55.68	≤-13.61	PASS
			1000~26500	6.39	-35.1	≤-13.61	PASS
		2480	Reference	5.80	5.80	---	PASS
			30~1000	5.80	-57.08	≤-14.2	PASS
			1000~26500	5.80	-33.84	≤-14.2	PASS

Test Graphs

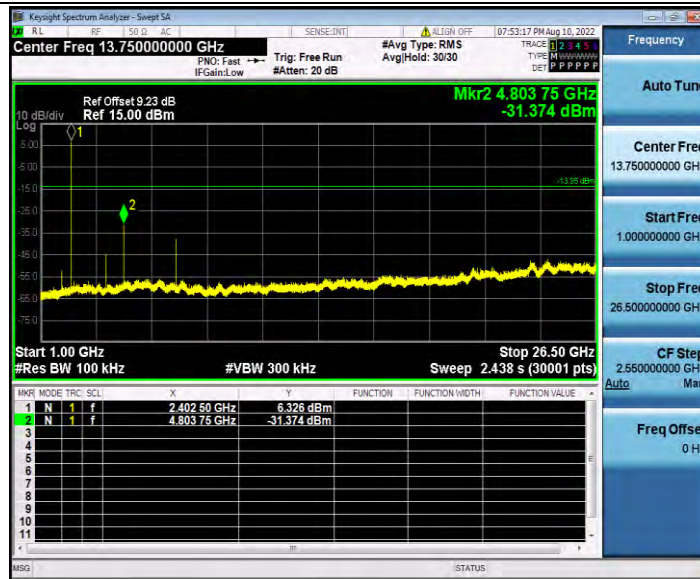
DH1_Ant1_2402_0~Reference



DH1_Ant1_2402_30~1000



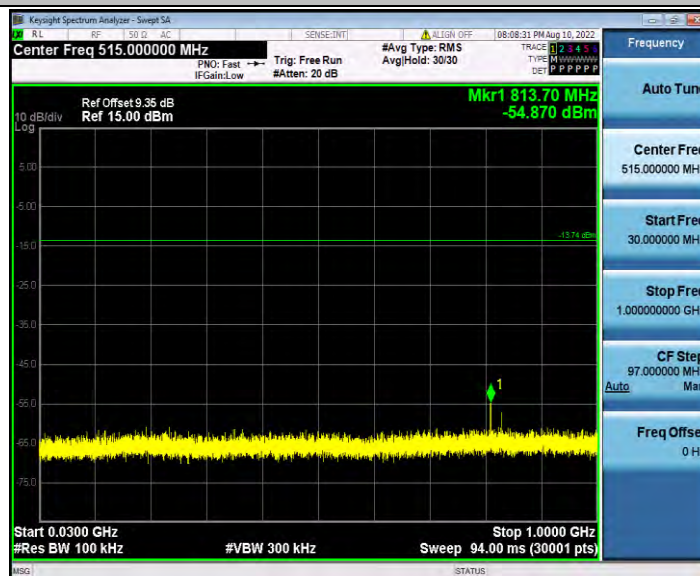
DH1_Ant1_2402_1000~26500



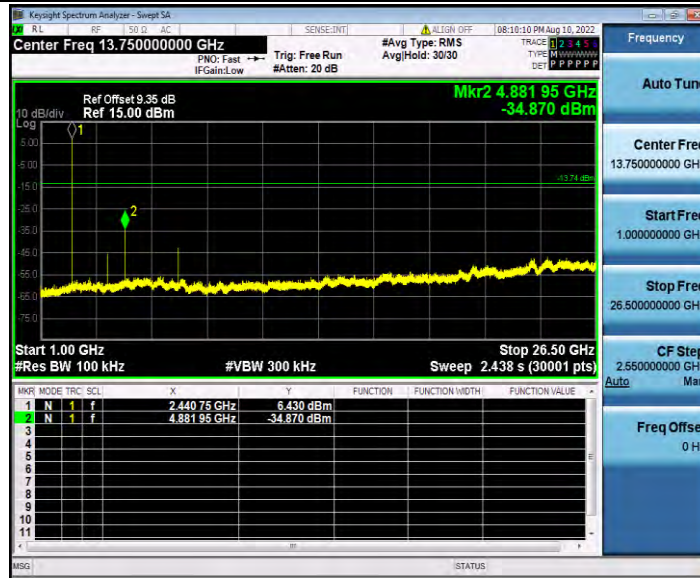
DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



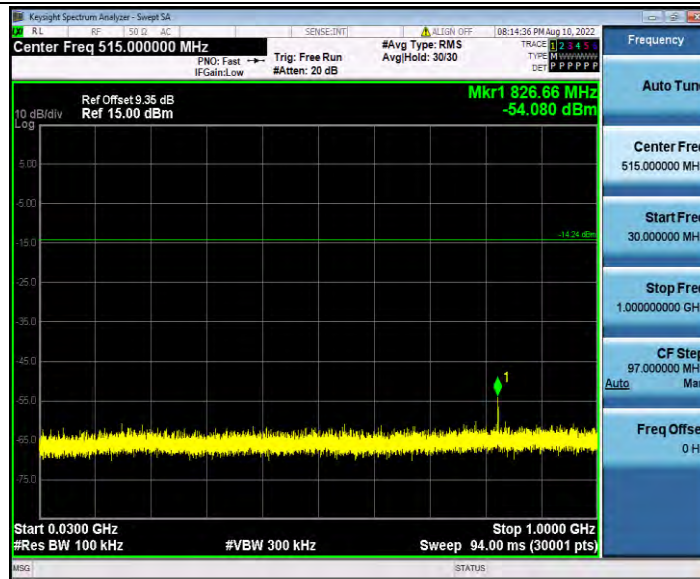
DH1_Ant1_2441_1000~26500



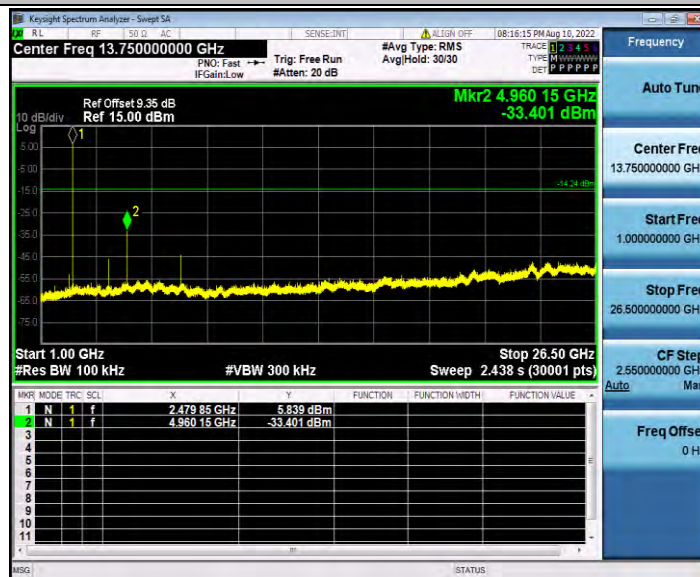
DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000



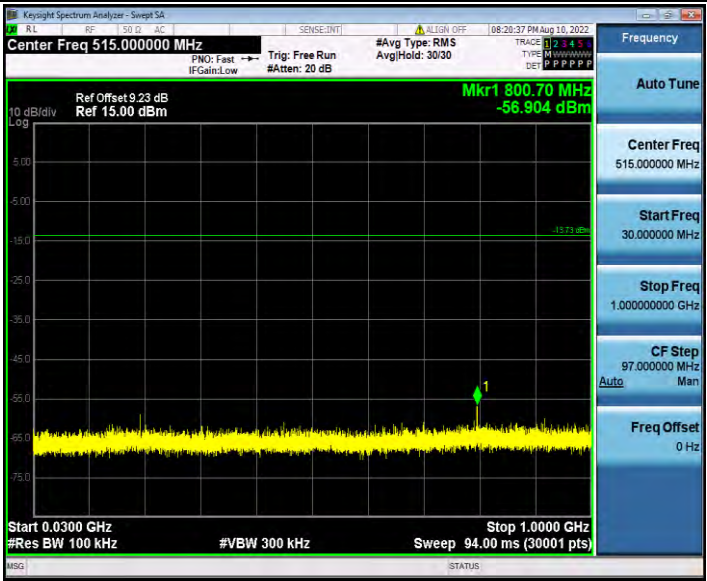
DH1_Ant1_2480_1000~26500



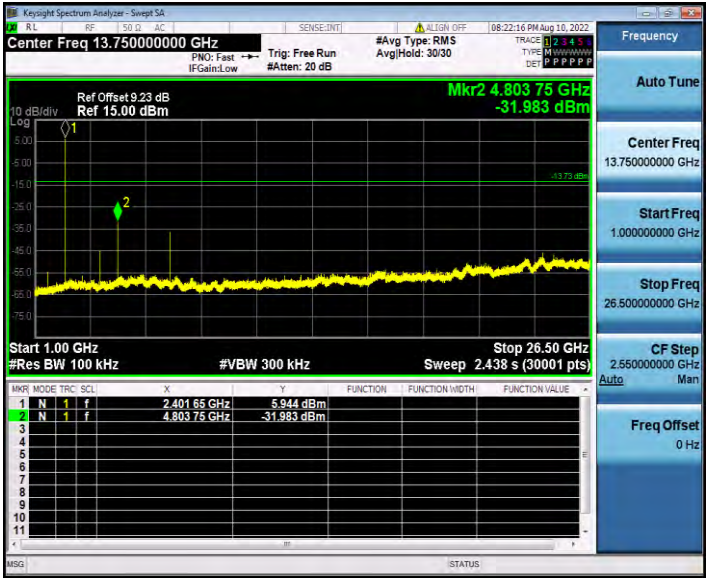
2DH1_Ant1_2402_0~Reference



2DH1_Ant1_2402_30~1000



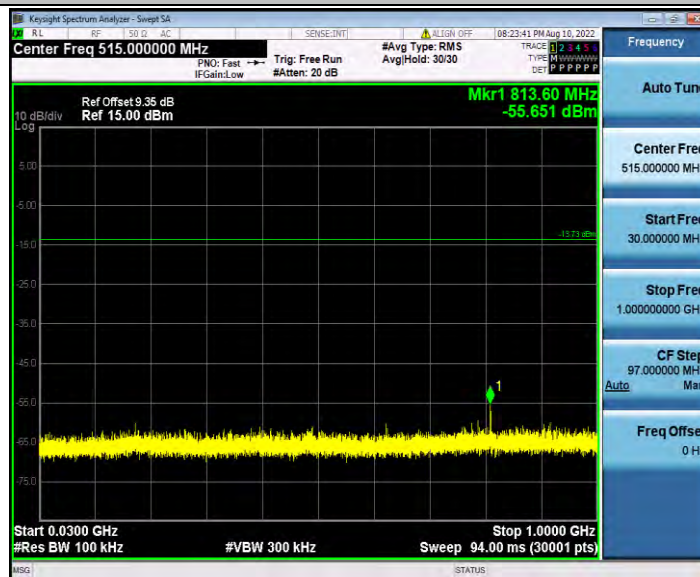
2DH1_Ant1_2402_1000~26500



2DH1_Ant1_2441_0~Reference



2DH1_Ant1_2441_30~1000



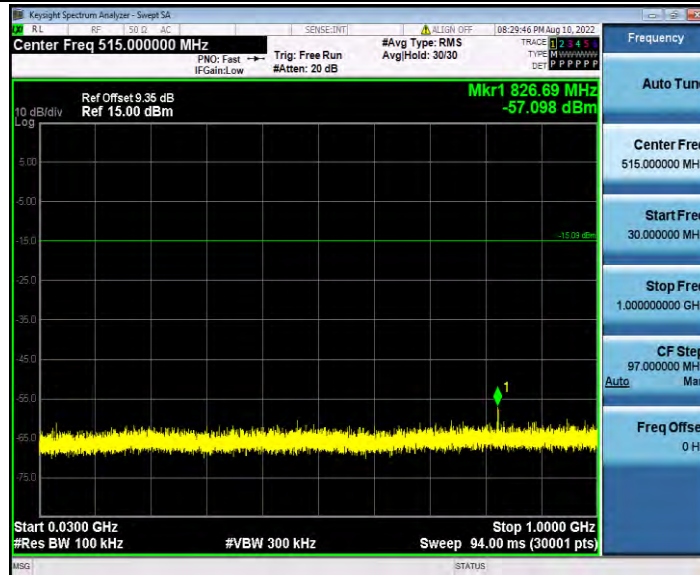
2DH1_Ant1_2441_1000~26500



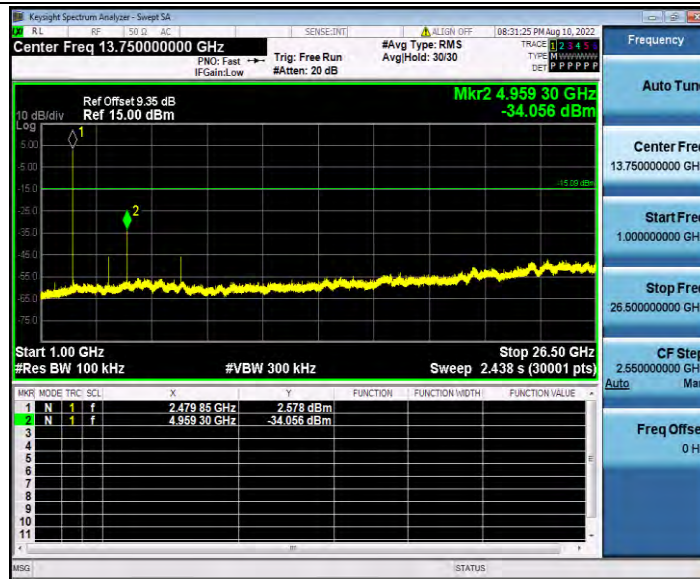
2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



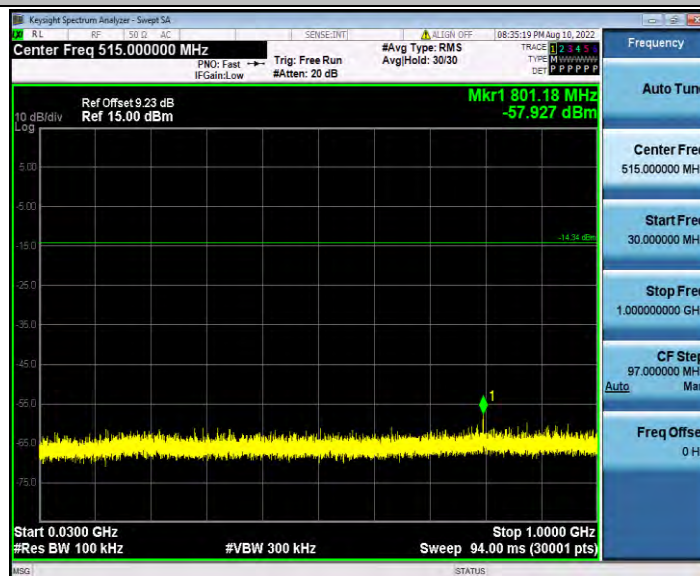
2DH1_Ant1_2480_1000~26500



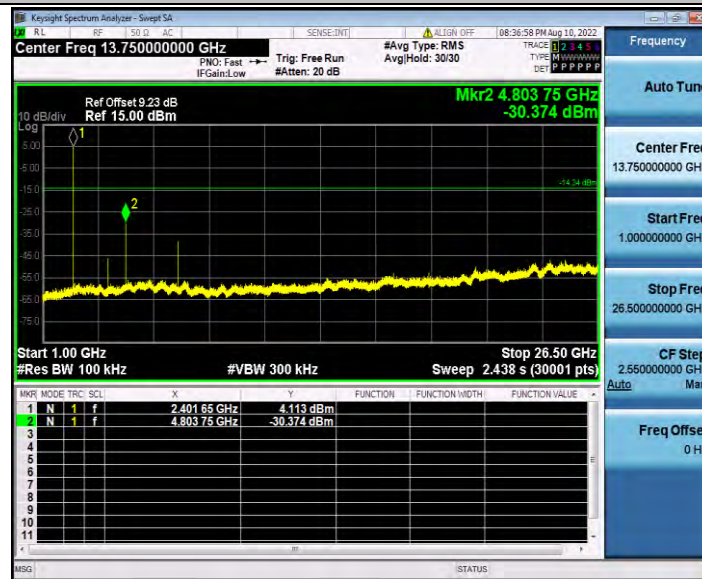
3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



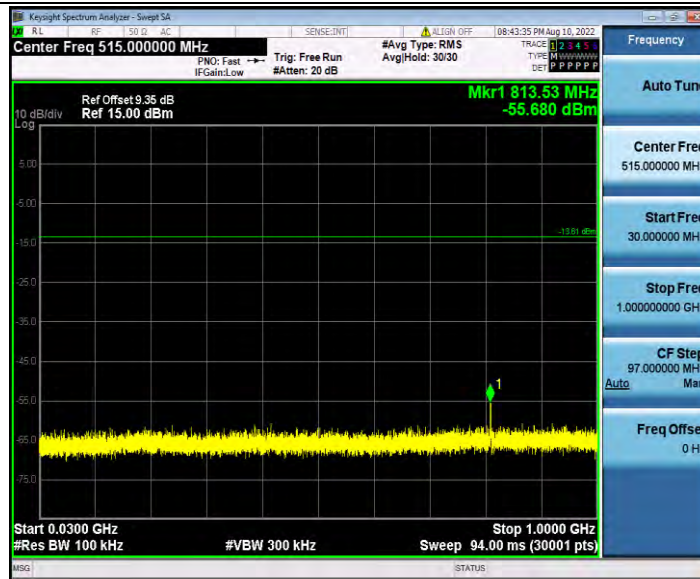
3DH1_Ant1_2402_1000~26500



3DH1_Ant1_2441_0~Reference



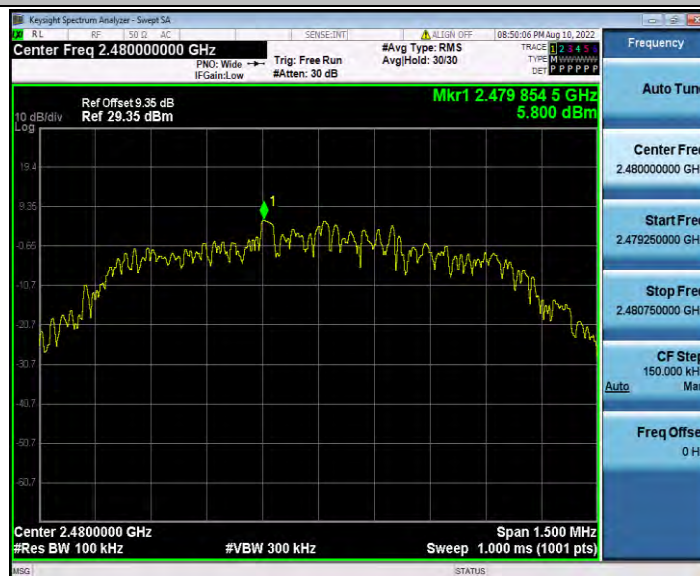
3DH1_Ant1_2441_30~1000



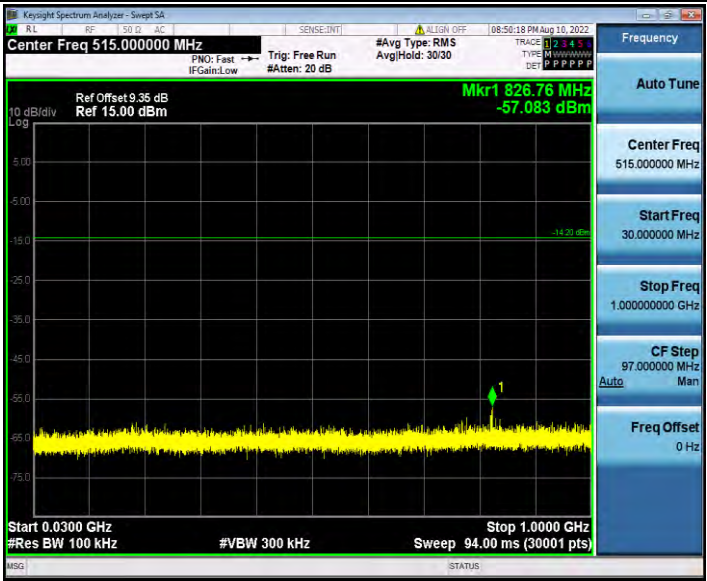
3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference



3DH1_Ant1_2480_30~1000



3DH1_Ant1_2480_1000~26500

