

Case No. : <u>GTS20221207004-1-8</u>	
Ambient Condition: <u>25</u> °C, <u>45</u> %RH, Atmos <u>100.1</u> Kpa,	
Test Date: <u>2023.1.9</u>	Test Engineer: <u>Jenny zeng</u>

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	0.786	2401.631	2402.417	---	---
		2441	0.858	2440.586	2441.444	---	---
		2480	0.843	2479.580	2480.423	---	---
2DH1	Ant1	2402	1.224	2401.403	2402.627	---	---
		2441	1.272	2440.388	2441.660	---	---
		2480	1.239	2479.400	2480.639	---	---
3DH1	Ant1	2402	1.251	2401.400	2402.651	---	---
		2441	1.242	2440.400	2441.642	---	---
		2480	1.230	2479.418	2480.648	---	---

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



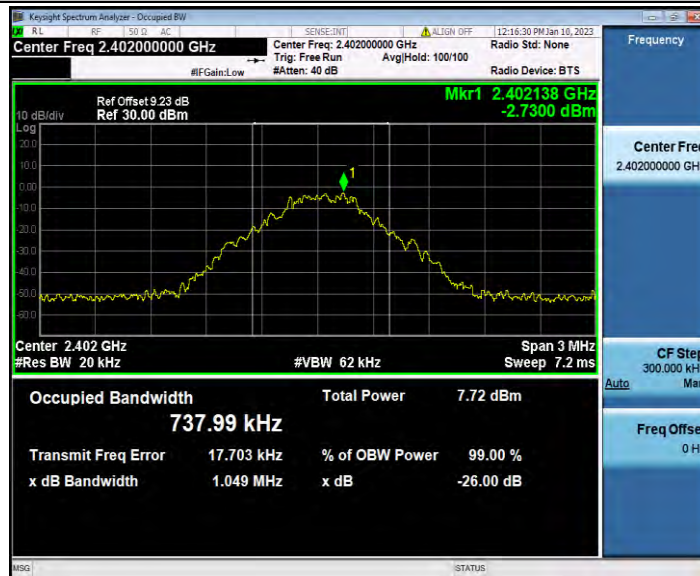
Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.73799	2401.649	2402.387	---	---
		2441	0.74306	2440.650	2441.393	---	---
		2480	0.71353	2479.657	2480.370	---	---
2DH1	Ant1	2402	1.1513	2401.445	2402.597	---	---
		2441	1.1610	2440.440	2441.601	---	---
		2480	1.1412	2479.449	2480.590	---	---
3DH1	Ant1	2402	1.1496	2401.457	2402.607	---	---
		2441	1.1440	2440.458	2441.602	---	---
		2480	1.1428	2479.461	2480.603	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



2DH1_Ant1_2402



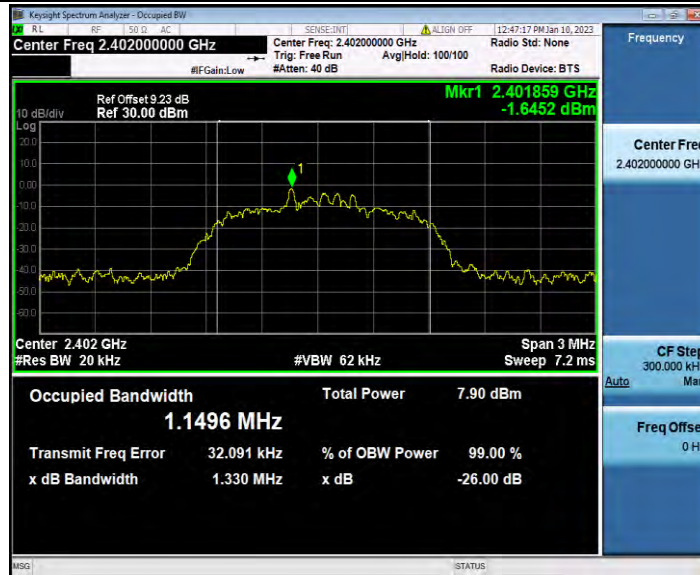
2DH1_Ant1_2441



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	2.67	≤30.00	PASS
		2441	5.2	≤30.00	PASS
		2480	5.06	≤30.00	PASS
2DH1	Ant1	2402	3.13	≤20.97	PASS
		2441	4.88	≤20.97	PASS
		2480	4.6	≤20.97	PASS
3DH1	Ant1	2402	2.93	≤20.97	PASS
		2441	4.79	≤20.97	PASS
		2480	4.57	≤20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.982	≥ 0.858	PASS
		Hop_2441	1.02	≥ 0.858	PASS
		Hop_2480	1.004	≥ 0.858	PASS
2DH1	Ant1	Hop_2402	1.018	≥ 0.848	PASS
		Hop_2441	1.144	≥ 0.848	PASS
		Hop_2480	0.988	≥ 0.848	PASS
3DH1	Ant1	Hop_2402	0.992	≥ 0.834	PASS
		Hop_2441	0.998	≥ 0.834	PASS
		Hop_2480	0.996	≥ 0.834	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



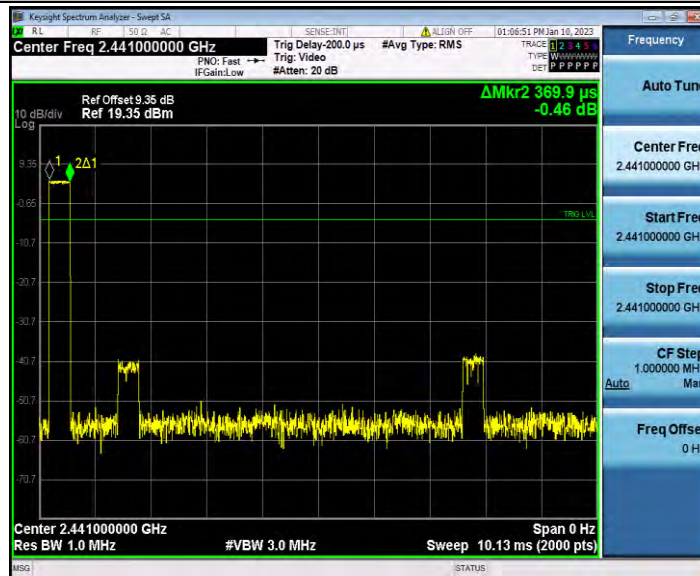
Appendix A.5: Time of occupancy

Test Result

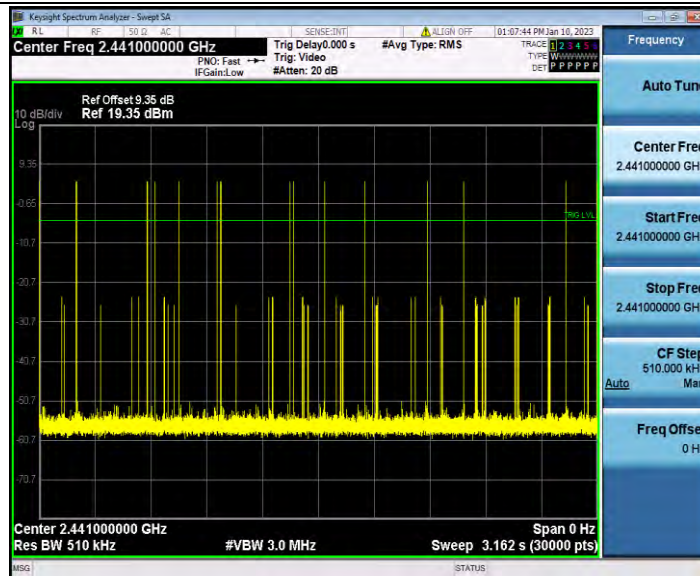
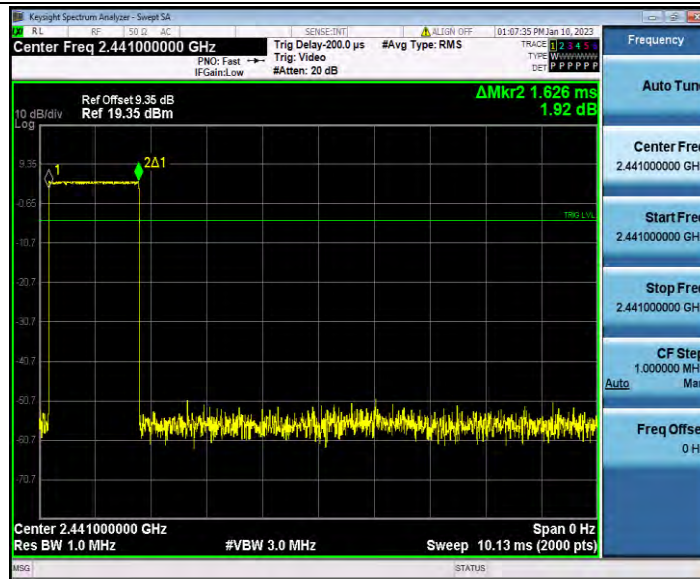
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	330	0.122	≤0.4	PASS
DH3	Ant1	Hop	1.63	150	0.244	≤0.4	PASS
DH5	Ant1	Hop	2.87	110	0.316	≤0.4	PASS
2DH1	Ant1	Hop	0.37	320	0.12	≤0.4	PASS
2DH3	Ant1	Hop	1.63	190	0.309	≤0.4	PASS
2DH5	Ant1	Hop	2.88	130	0.374	≤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	120	0.345	≤0.4	PASS

Test Graphs

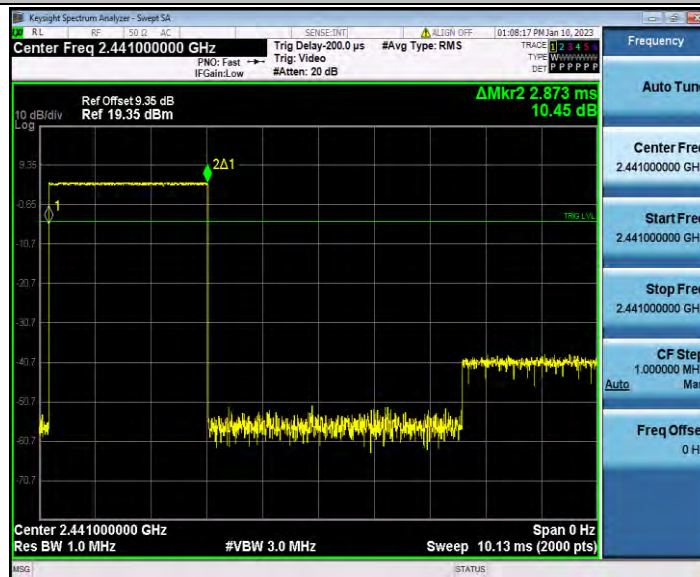
DH1_Ant1_Hop

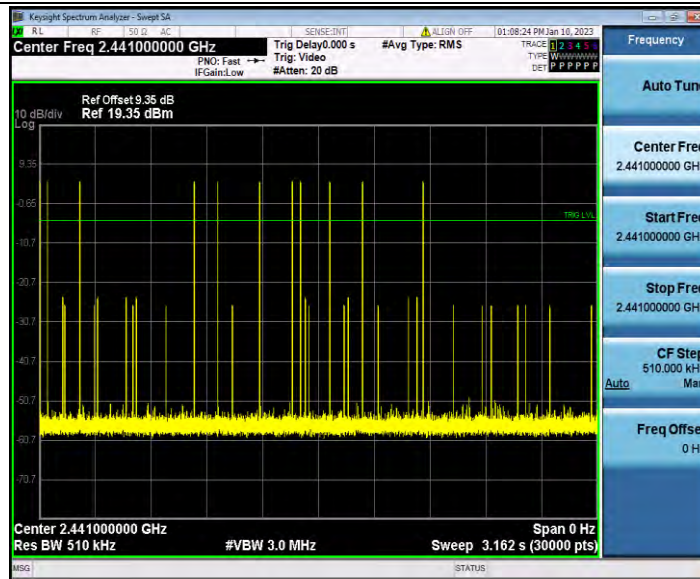


DH3_Ant1_Hop

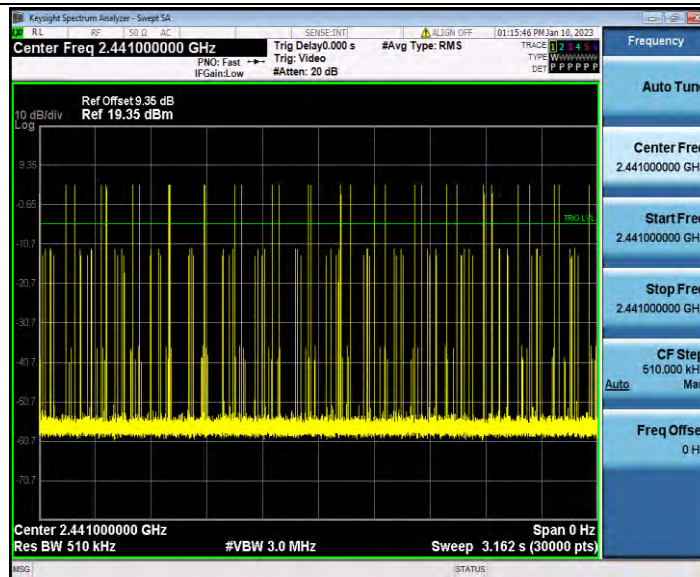
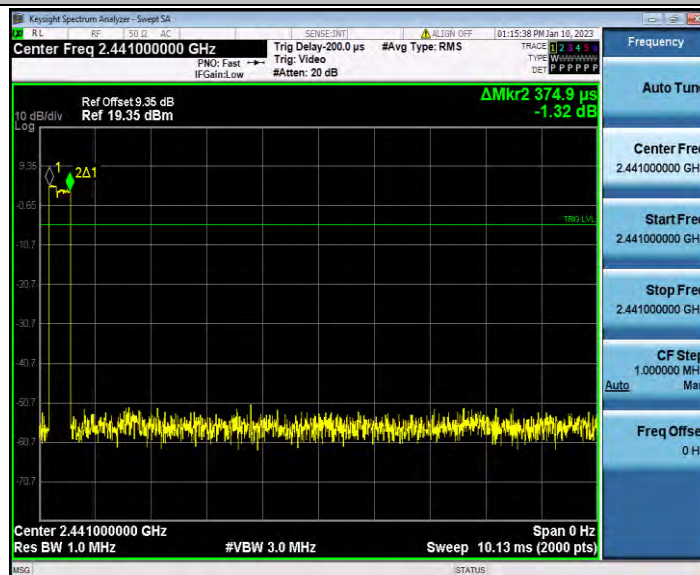


DH5_Ant1_Hop

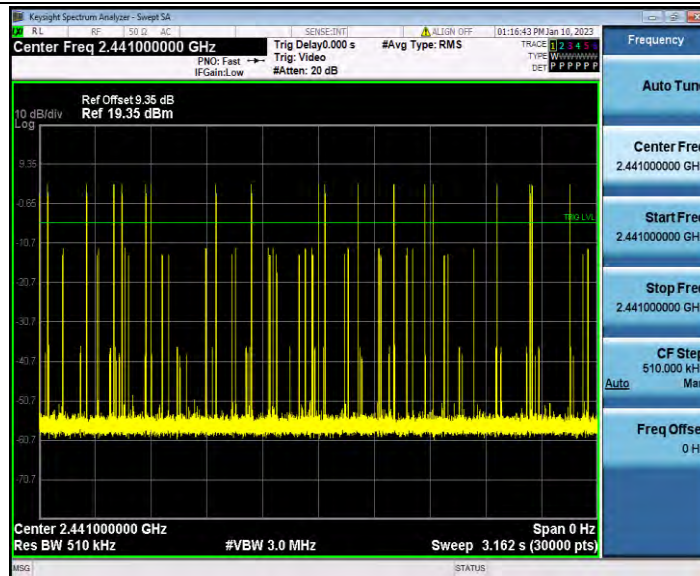
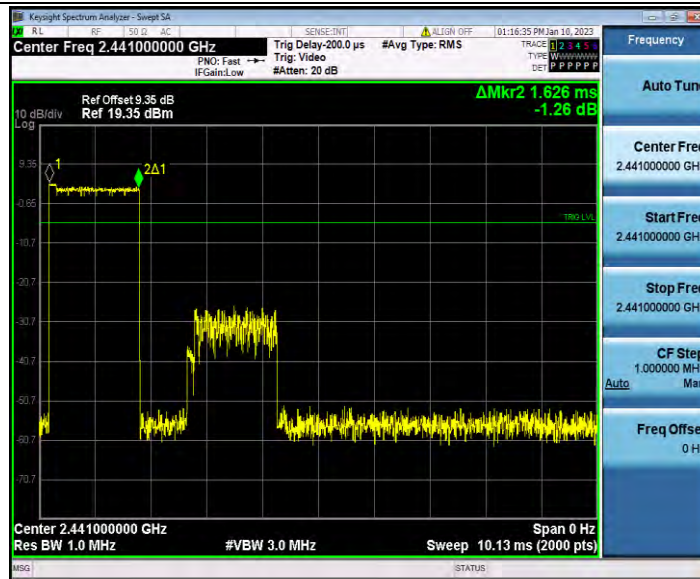




2DH1_Ant1_Hop

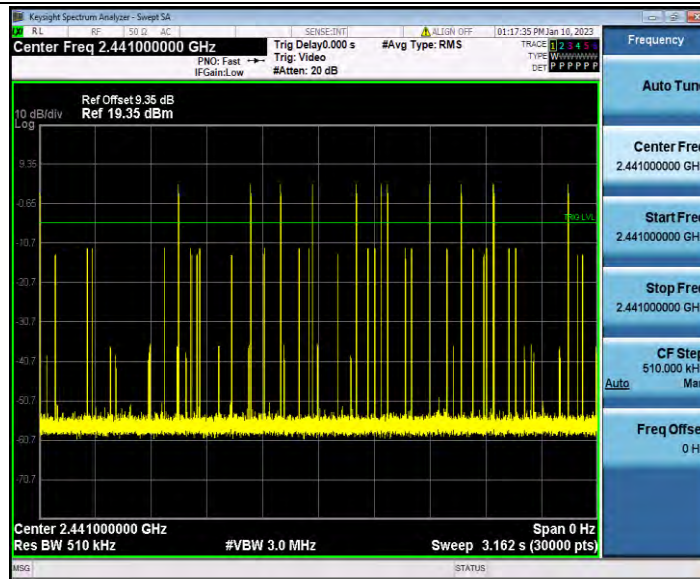


2DH3_Ant1_Hop

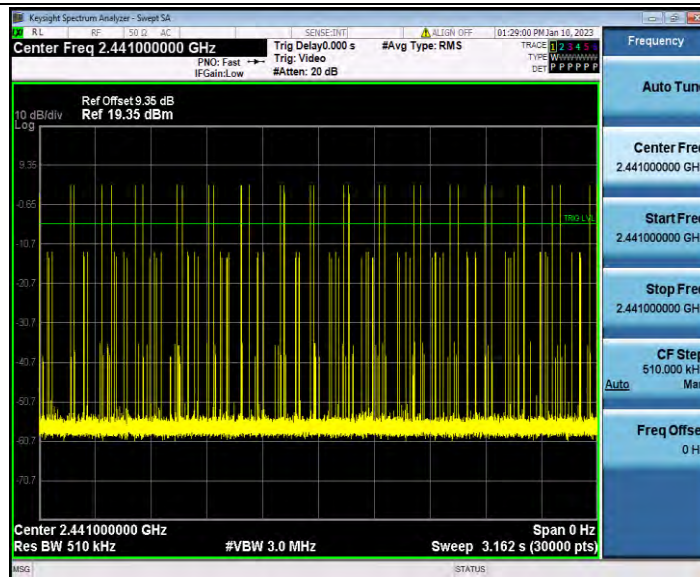
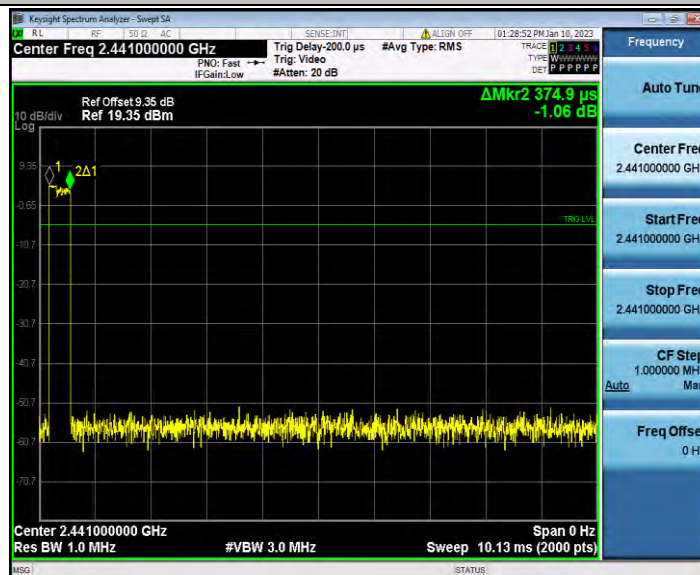


2DH5_Ant1_Hop

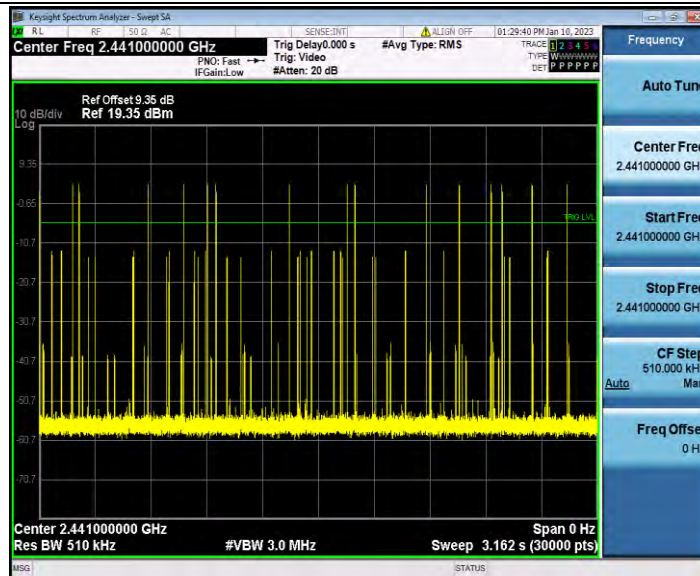
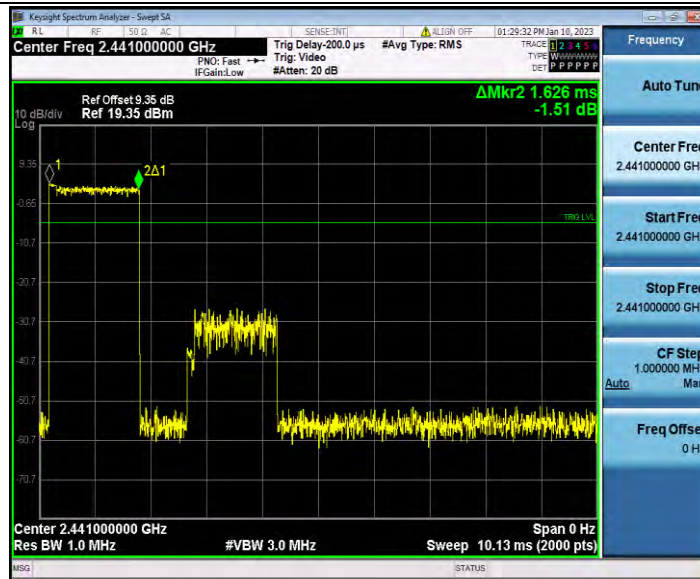




3DH1_Ant1_Hop

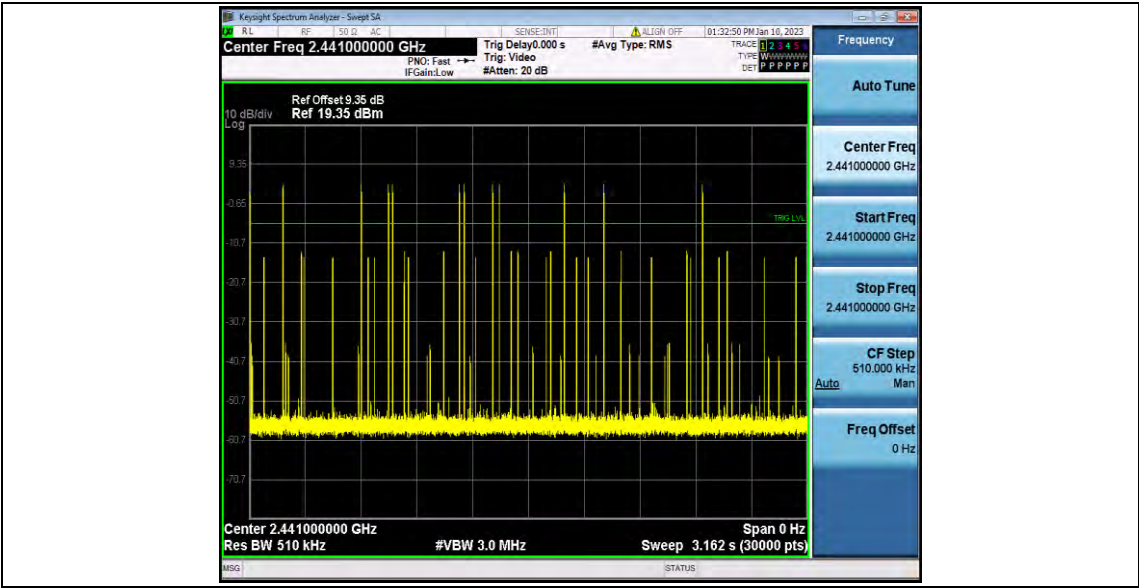


3DH3_Ant1_Hop



3DH5_Ant1_Hop





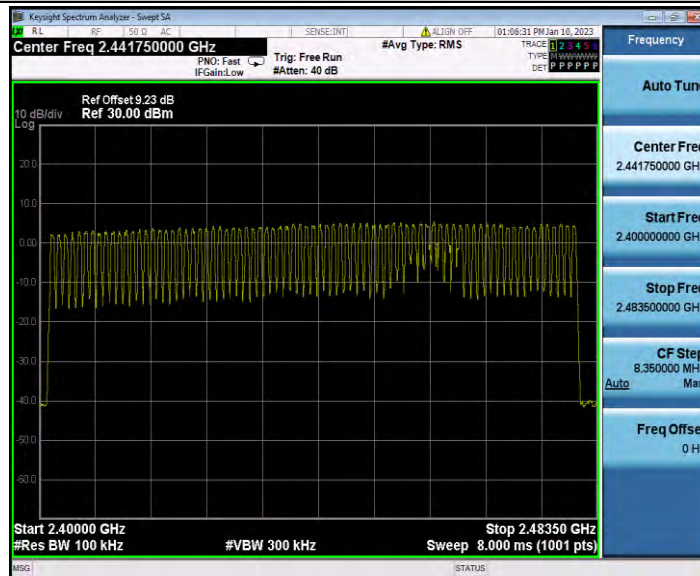
Appendix A.6: Number of hopping channels

Test Result

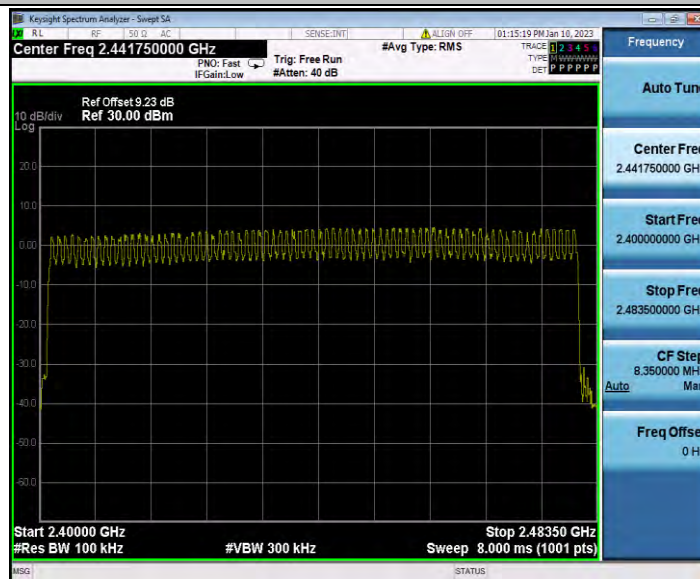
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Hop	79	≥15	PASS
2DH1	Ant1	Hop	79	≥15	PASS
3DH1	Ant1	Hop	79	≥15	PASS

Test Graphs

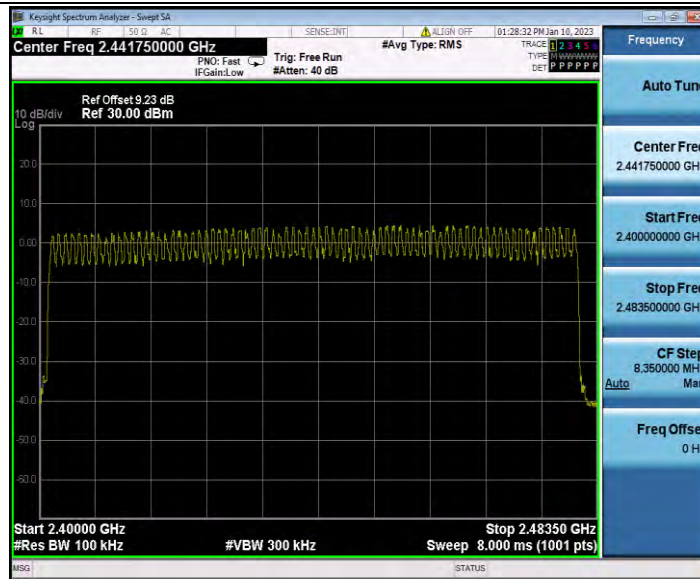
DH1_Ant1_Hop



2DH1_Ant1_Hop



3DH1_Ant1_Hop



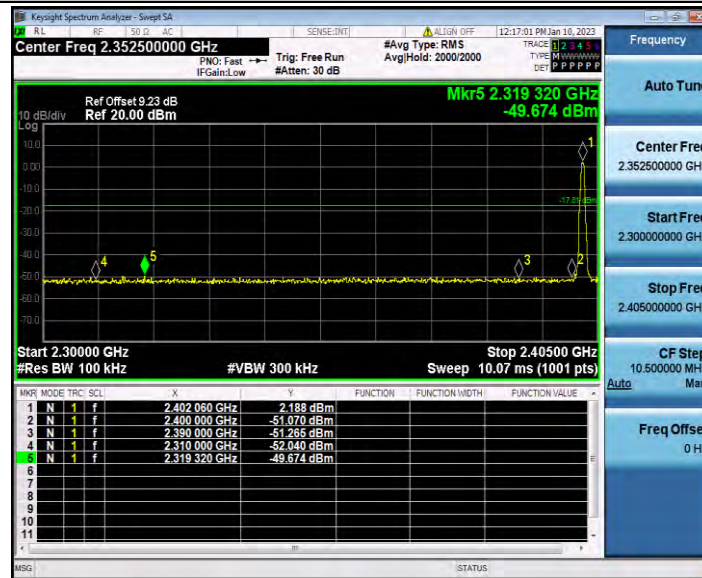
Appendix A.7: Band edge measurements

Test Result

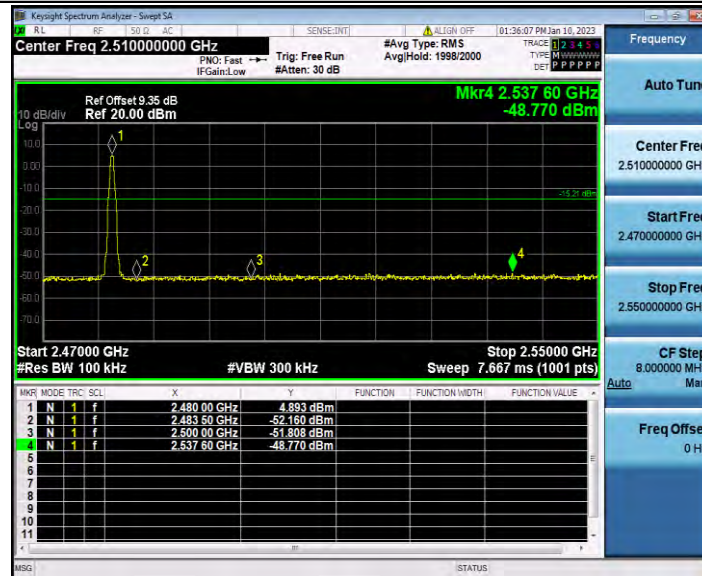
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	2.19	-49.67	≤-17.81	PASS
		High	2480	4.80	-48.77	≤-15.21	PASS
		Low	Hop_2402	2.27	-49.46	≤-17.73	PASS
		High	Hop_2480	4.58	-48.75	≤-15.42	PASS
2DH1	Ant1	Low	2402	2.58	-48.02	≤-17.42	PASS
		High	2480	4.58	-48.67	≤-15.42	PASS
		Low	Hop_2402	2.40	-49.73	≤-17.6	PASS
		High	Hop_2480	3.96	-48.31	≤-16.04	PASS
3DH1	Ant1	Low	2402	2.45	-47.59	≤-17.55	PASS
		High	2480	4.30	-48.48	≤-15.7	PASS
		Low	Hop_2402	2.03	-48.73	≤-17.97	PASS
		High	Hop_2480	3.69	-47.81	≤-16.32	PASS

Test Graphs

DH1_Ant1_Low_2402

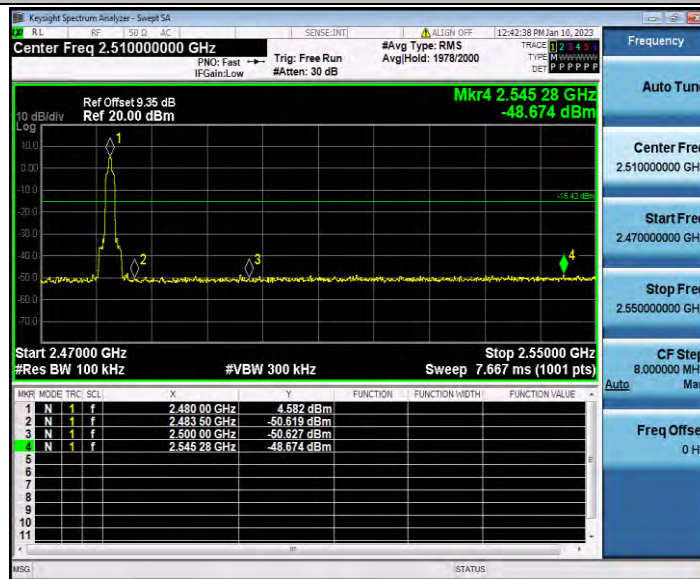


DH1_Ant1_High_2480

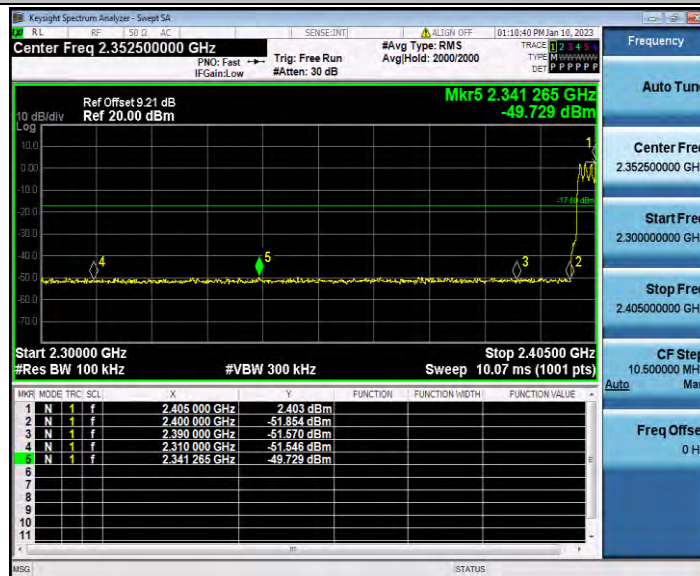


DH1_Ant1_Low_Hop_2402

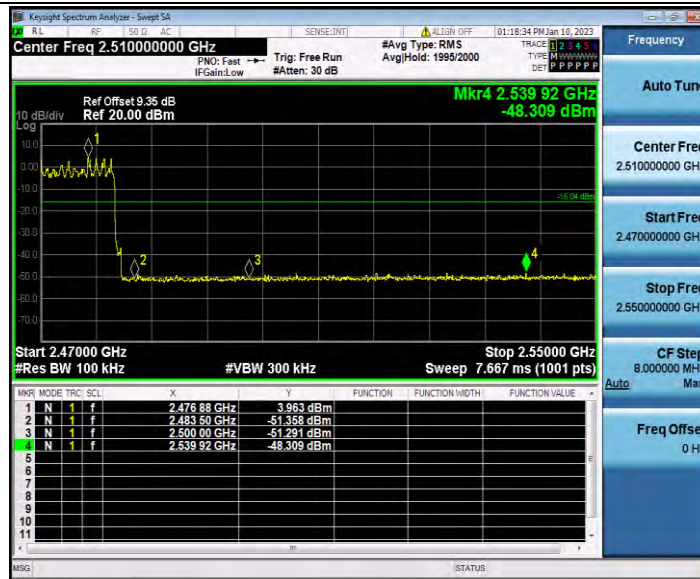
2DH1_Ant1_High_2480



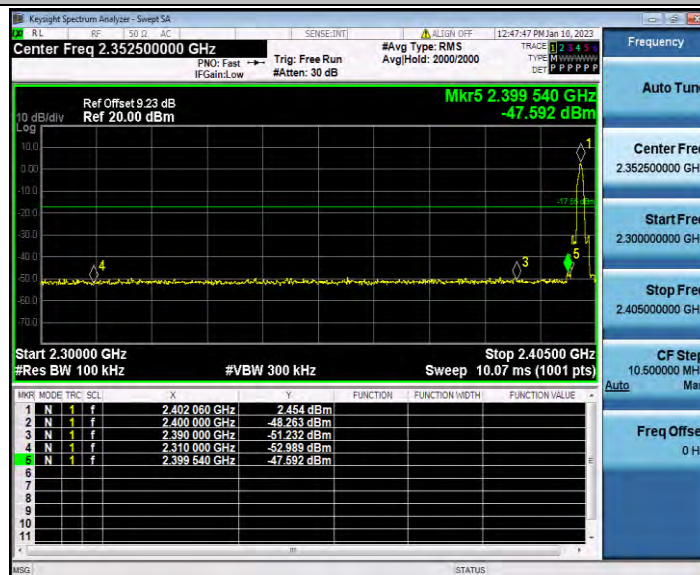
2DH1_Ant1_Low_Hop_2402



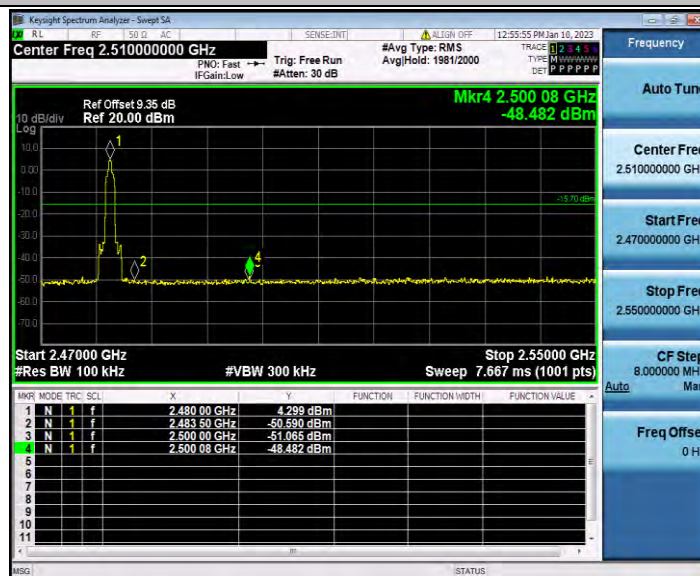
2DH1_Ant1_High_Hop_2480



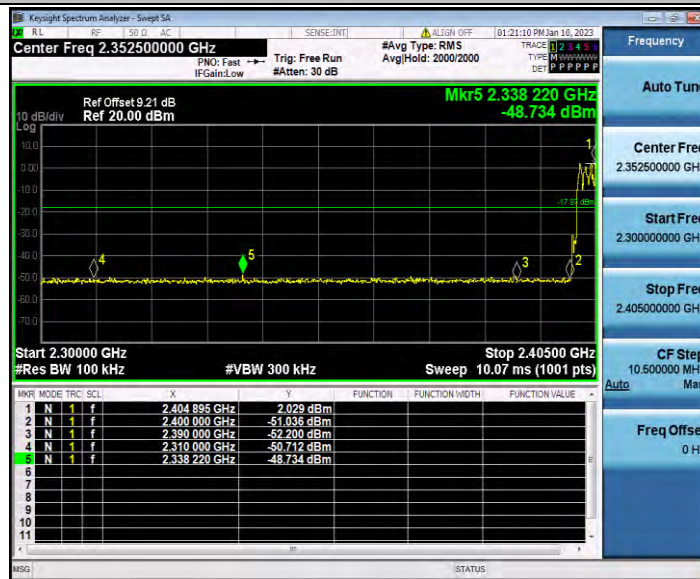
3DH1_Ant1_Low_2402



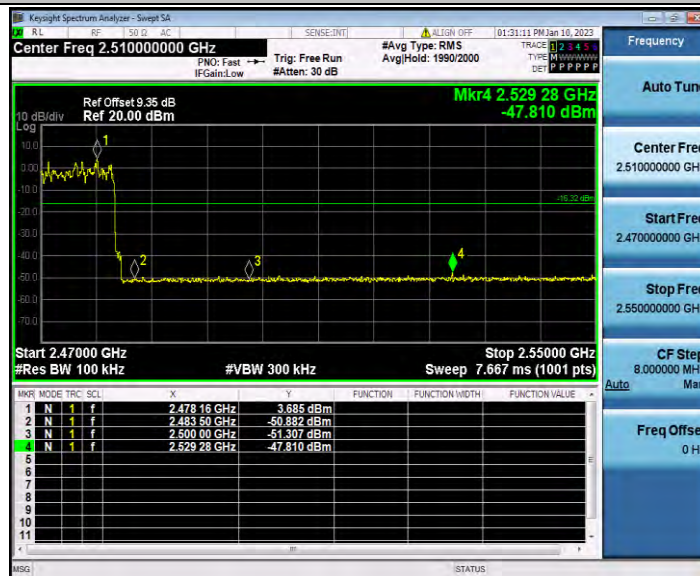
3DH1_Ant1_High_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480



Appendix A.8: Conducted Spurious Emission

Test Result

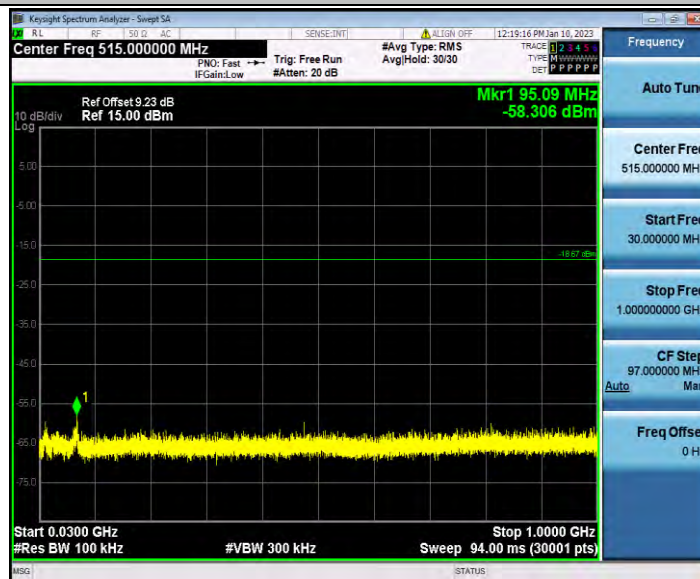
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	1.33	1.33	---	PASS
			30~1000	1.33	-58.31	≤-18.67	PASS
			1000~26500	1.33	-37.93	≤-18.67	PASS
		2441	Reference	3.92	3.92	---	PASS
			30~1000	3.92	-58.23	≤-16.08	PASS
			1000~26500	3.92	-47.87	≤-16.08	PASS
		2480	Reference	4.30	4.30	---	PASS
			30~1000	4.30	-57.4	≤-15.7	PASS
			1000~26500	4.30	-38.55	≤-15.7	PASS
2DH1	Ant1	2402	Reference	1.96	1.96	---	PASS
			30~1000	1.96	-58.73	≤-18.04	PASS
			1000~26500	1.96	-47.22	≤-18.04	PASS
		2441	Reference	4.02	4.02	---	PASS
			30~1000	4.02	-60.15	≤-15.98	PASS
			1000~26500	4.02	-47.82	≤-15.98	PASS
		2480	Reference	3.91	3.91	---	PASS
			30~1000	3.91	-59.83	≤-16.09	PASS
			1000~26500	3.91	-47.54	≤-16.09	PASS
3DH1	Ant1	2402	Reference	1.13	1.13	---	PASS
			30~1000	1.13	-60.37	≤-18.87	PASS
			1000~26500	1.13	-47.5	≤-18.87	PASS
		2441	Reference	3.81	3.81	---	PASS
			30~1000	3.81	-60.62	≤-16.19	PASS
			1000~26500	3.81	-47.04	≤-16.19	PASS
		2480	Reference	3.28	3.28	---	PASS
			30~1000	3.28	-58.11	≤-16.72	PASS
			1000~26500	3.28	-47.6	≤-16.72	PASS

Test Graphs

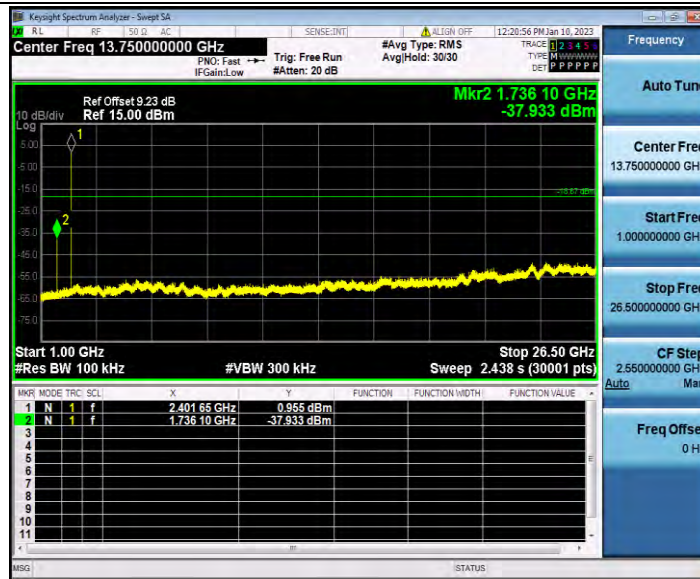
DH1_Ant1_2402_0~Reference



DH1_Ant1_2402_30~1000



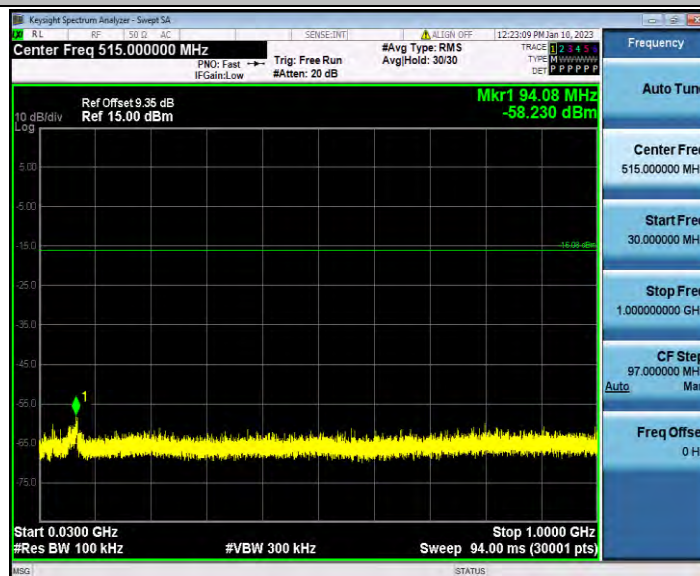
DH1_Ant1_2402_1000~26500



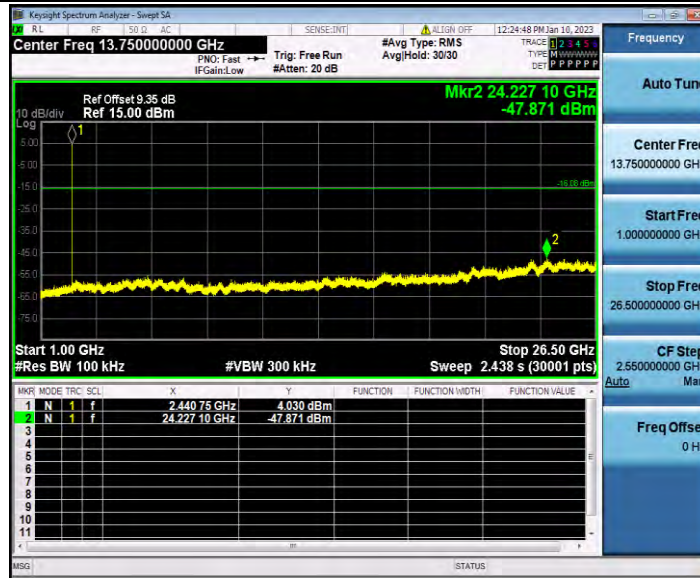
DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



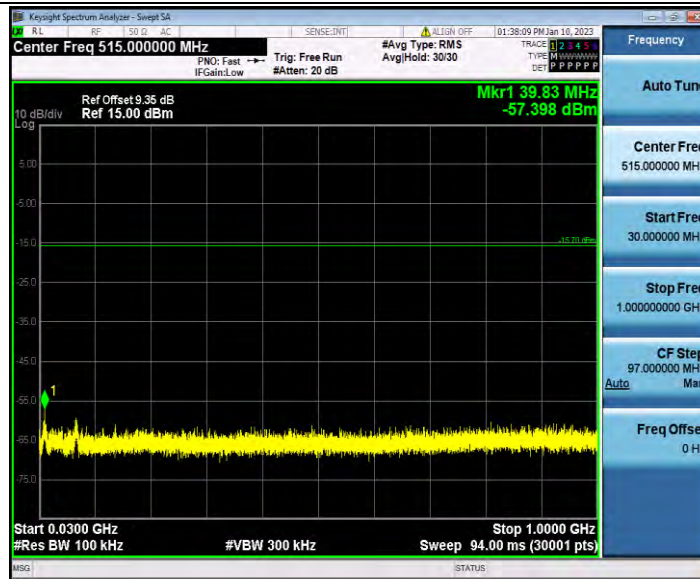
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



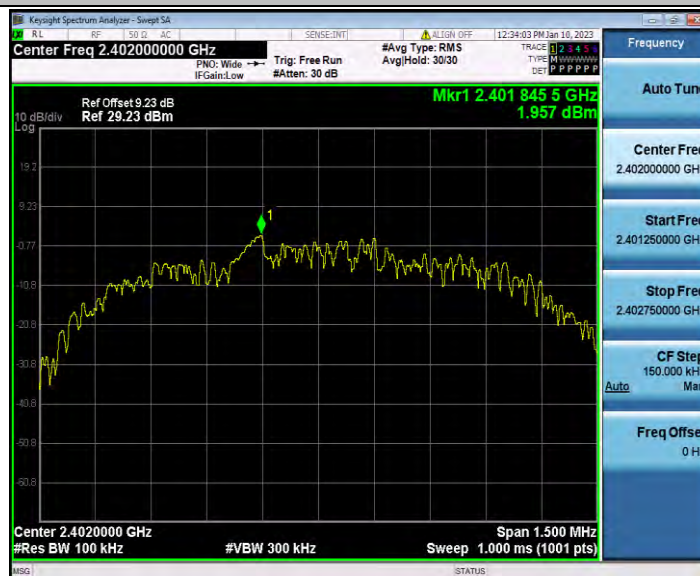
DH1_Ant1_2480_30~1000



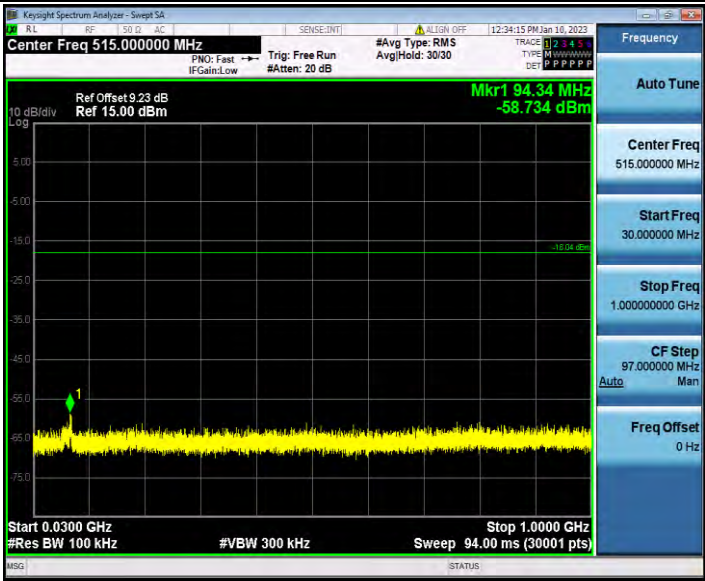
DH1_Ant1_2480_1000~26500



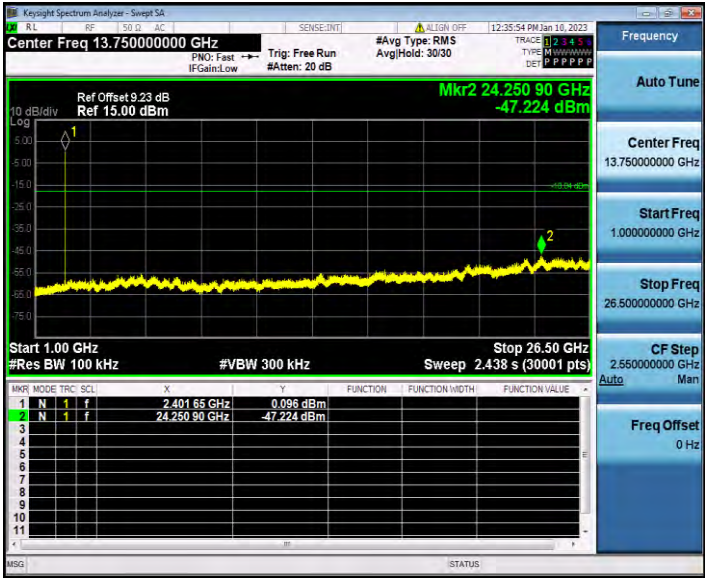
2DH1_Ant1_2402_0~Reference



2DH1_Ant1_2402_30~1000



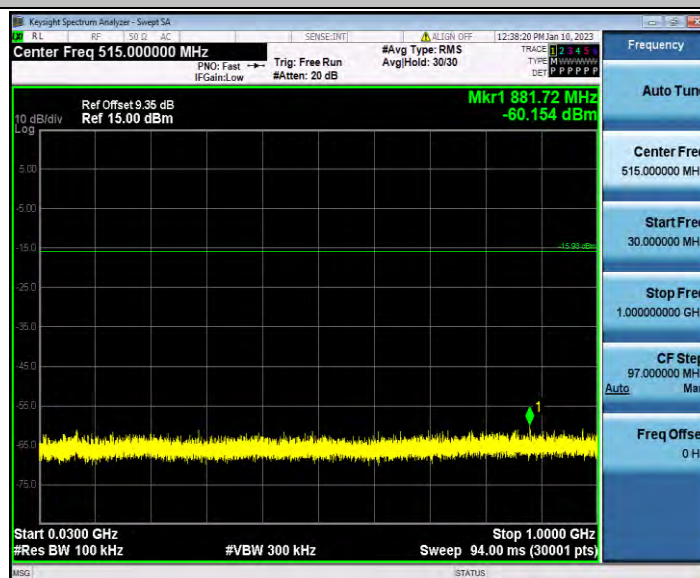
2DH1_Ant1_2402_1000~26500



2DH1_Ant1_2441_0~Reference



2DH1 Ant1 2441 30~1000



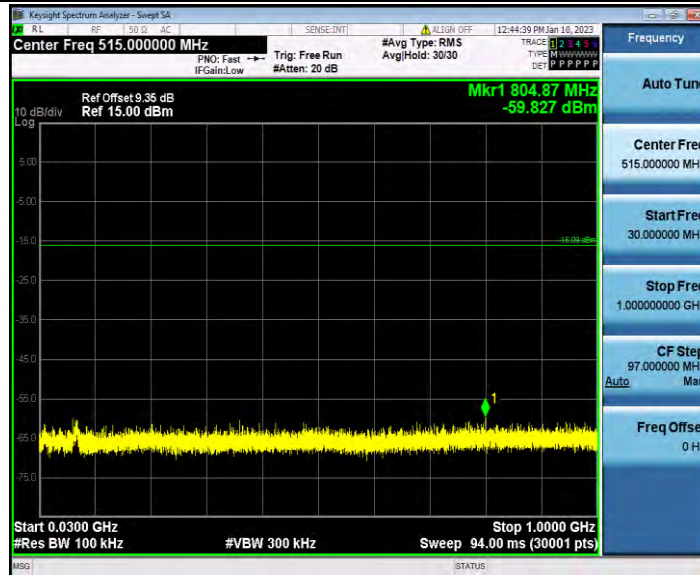
2DH1 Ant1 2441 1000~26500



2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



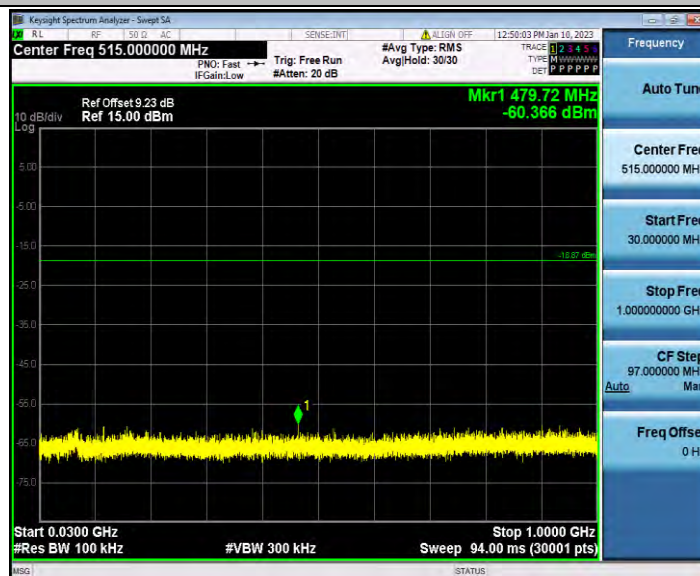
2DH1_Ant1_2480_1000~26500



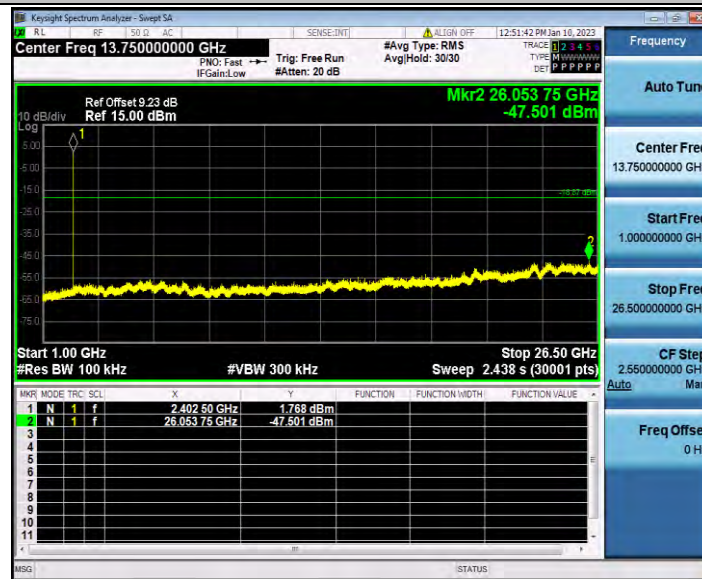
3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



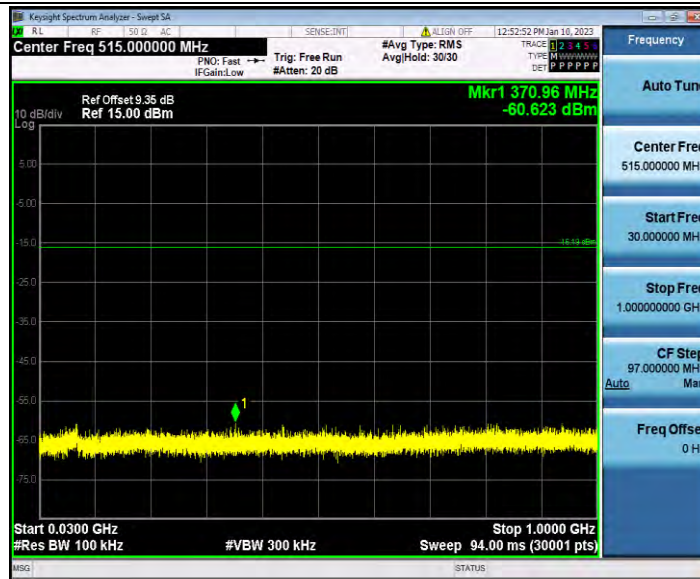
3DH1_Ant1_2402_1000~26500



3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000



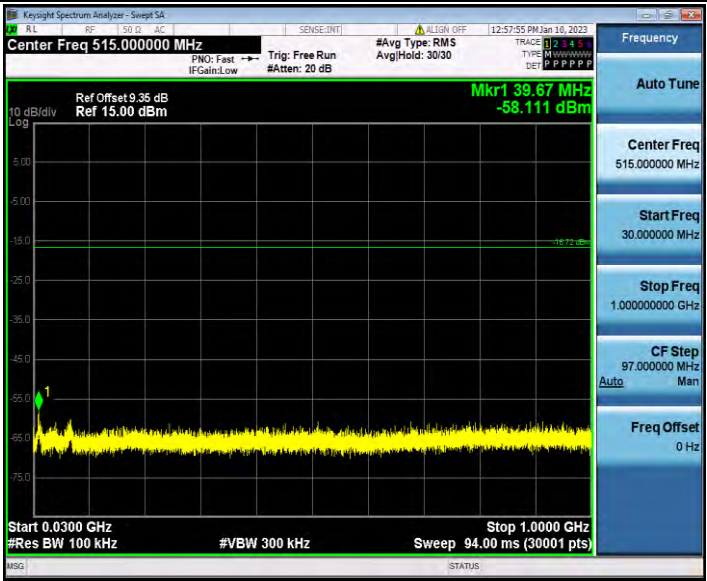
3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference



3DH1_Ant1_2480_30~1000



3DH1_Ant1_2480_1000~26500

