

Case No. : GTS20221208007-1-10	
Ambient Condition: 25 °C, 45 %RH, Atmos100.1Kpa,	
Test Date: 2022.12.29	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	0.837	2401.571	2402.408	---	---
		2441	0.858	2440.559	2441.417	---	---
		2480	0.792	2479.601	2480.393	---	---
2DH1	Ant1	2402	1.242	2401.370	2402.612	---	---
		2441	1.248	2440.370	2441.618	---	---
		2480	1.257	2479.373	2480.630	---	---
3DH1	Ant1	2402	1.224	2401.403	2402.627	---	---
		2441	1.215	2440.406	2441.621	---	---
		2480	1.245	2479.376	2480.621	---	---

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



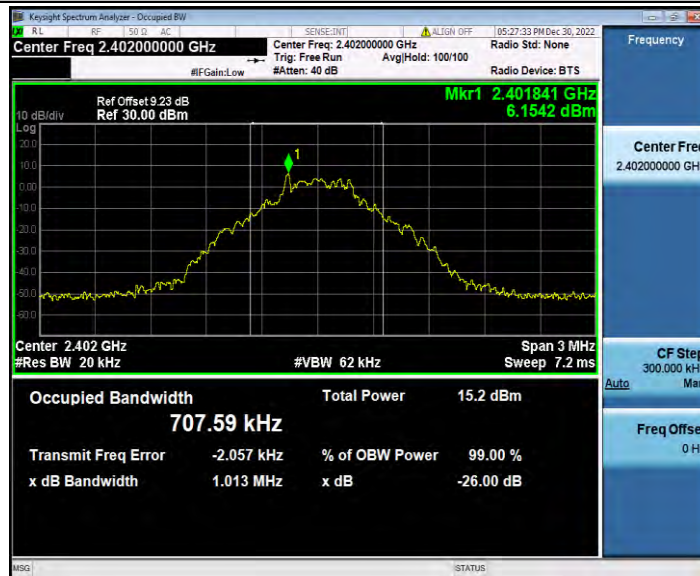
Appendix A.2: Occupied Channel Bandwidth

Test Result

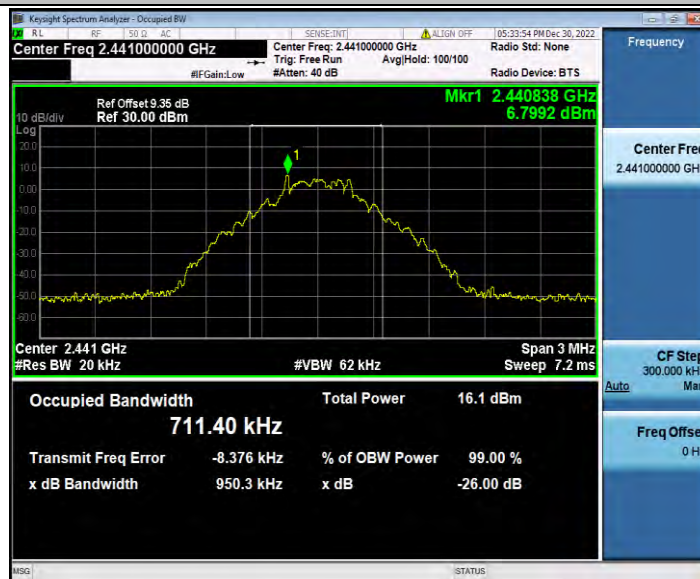
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.70759	2401.644	2402.352	---	---
		2441	0.71140	2440.636	2441.347	---	---
		2480	0.70976	2479.636	2480.346	---	---
2DH1	Ant1	2402	1.1416	2401.431	2402.572	---	---
		2441	1.1385	2440.430	2441.569	---	---
		2480	1.1524	2479.423	2480.575	---	---
3DH1	Ant1	2402	1.1399	2401.440	2402.580	---	---
		2441	1.1308	2440.444	2441.575	---	---
		2480	1.1318	2479.442	2480.574	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



2DH1_Ant1_2402



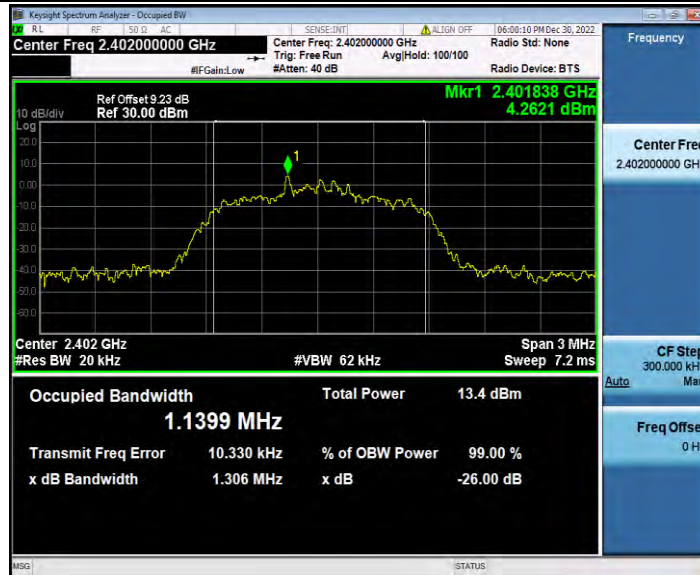
2DH1_Ant1_2441



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	9.49	≤20.97	PASS
		2441	10.19	≤20.97	PASS
		2480	11.07	≤20.97	PASS
2DH1	Ant1	2402	8.56	≤20.97	PASS
		2441	9.41	≤20.97	PASS
		2480	10.15	≤20.97	PASS
3DH1	Ant1	2402	8.54	≤20.97	PASS
		2441	9.45	≤20.97	PASS
		2480	10.16	≤20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.836	≥ 0.572	PASS
		Hop_2441	0.698	≥ 0.572	PASS
		Hop_2480	1.004	≥ 0.572	PASS
2DH1	Ant1	Hop_2402	0.998	≥ 0.838	PASS
		Hop_2441	0.936	≥ 0.838	PASS
		Hop_2480	1.006	≥ 0.838	PASS
3DH1	Ant1	Hop_2402	1.01	≥ 0.830	PASS
		Hop_2441	1.138	≥ 0.830	PASS
		Hop_2480	0.982	≥ 0.830	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



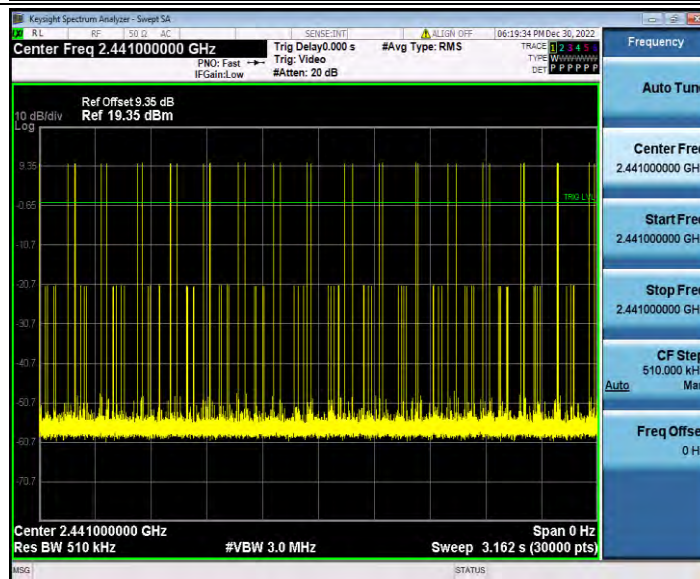
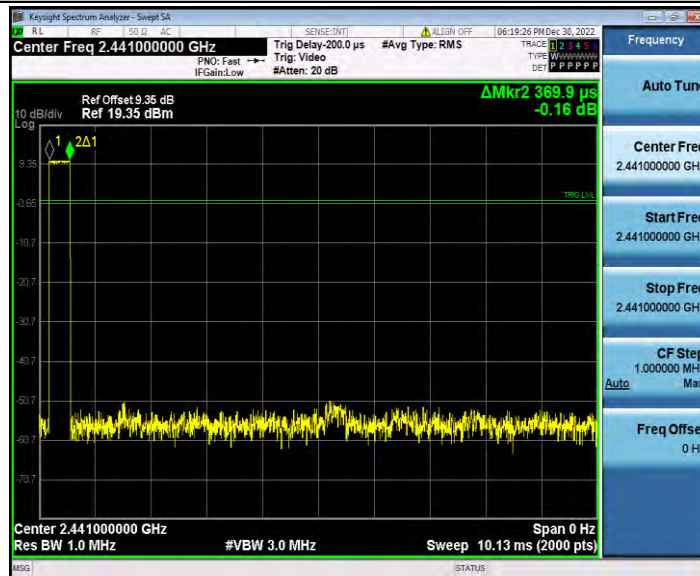
Appendix A.5: Time of occupancy

Test Result

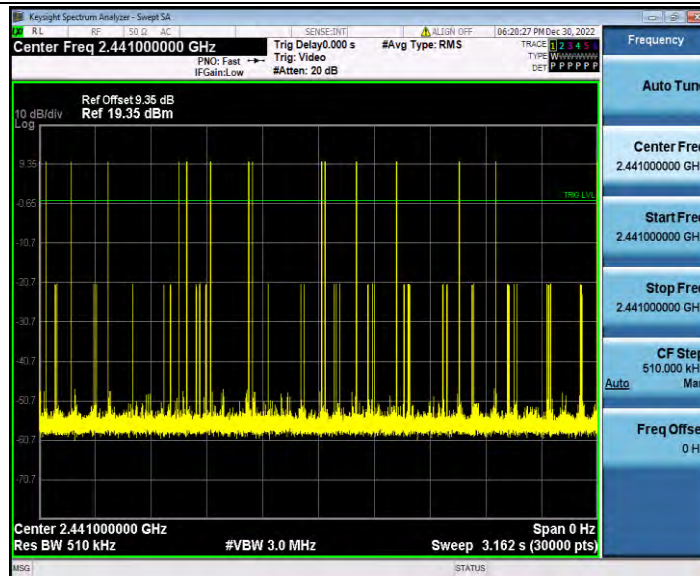
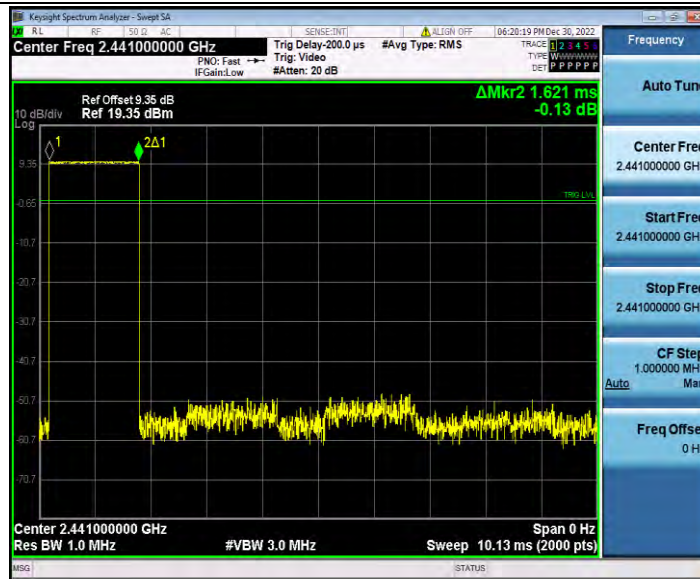
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	330	0.122	≤0.4	PASS
DH3	Ant1	Hop	1.62	160	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.87	120	0.345	≤0.4	PASS
2DH1	Ant1	Hop	0.37	320	0.12	≤0.4	PASS
2DH3	Ant1	Hop	1.63	170	0.277	≤0.4	PASS
2DH5	Ant1	Hop	2.88	120	0.345	≤0.4	PASS
3DH1	Ant1	Hop	0.38	330	0.125	≤0.4	PASS
3DH3	Ant1	Hop	1.63	160	0.26	≤0.4	PASS
3DH5	Ant1	Hop	2.88	120	0.346	≤0.4	PASS

Test Graphs

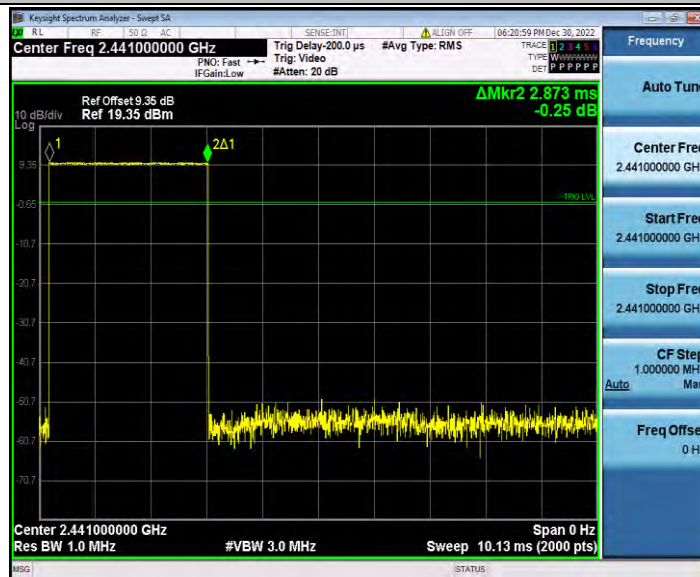
DH1_Ant1_Hop

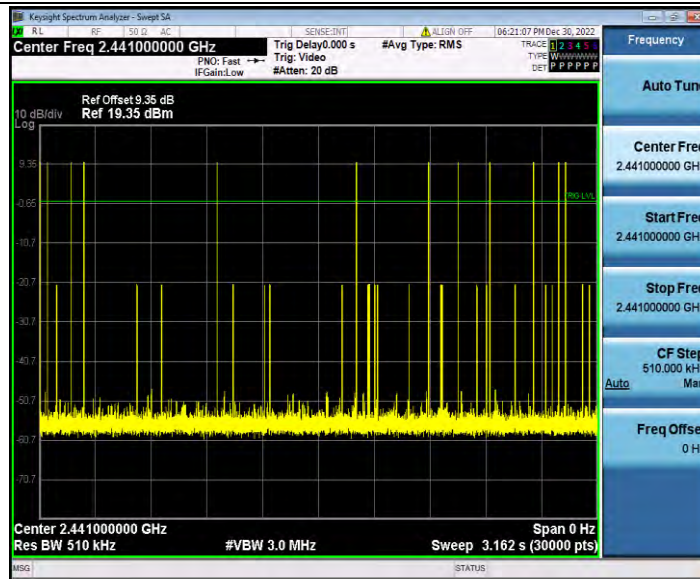


DH3_Ant1_Hop

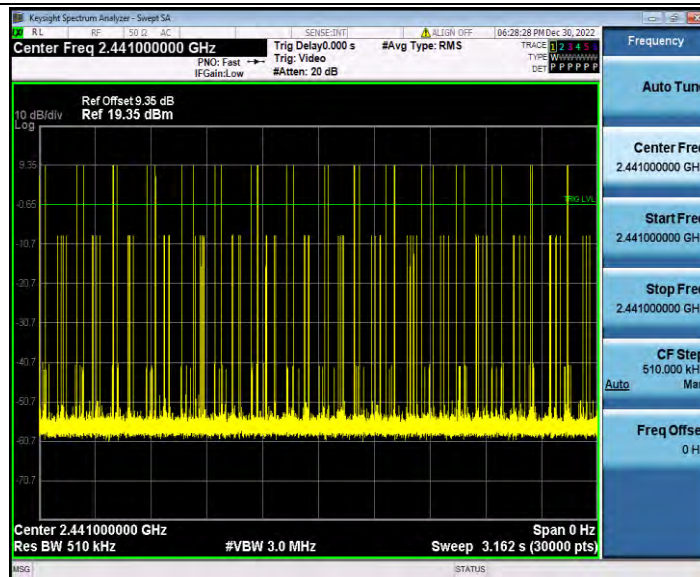
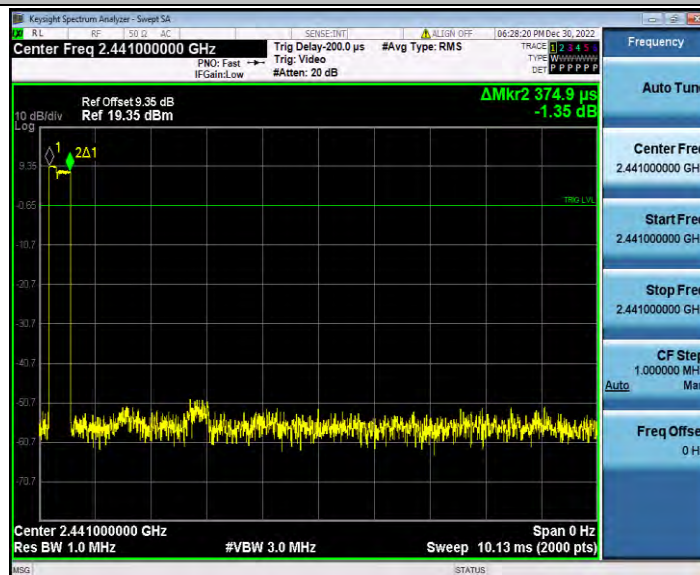


DH5_Ant1_Hop

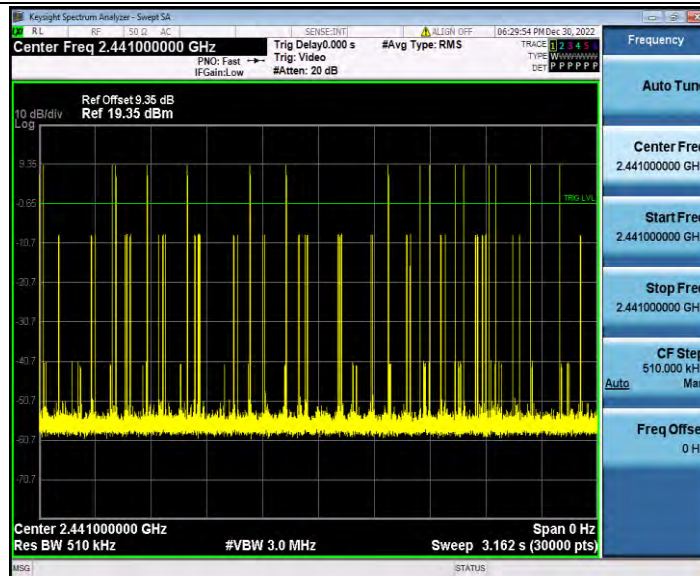
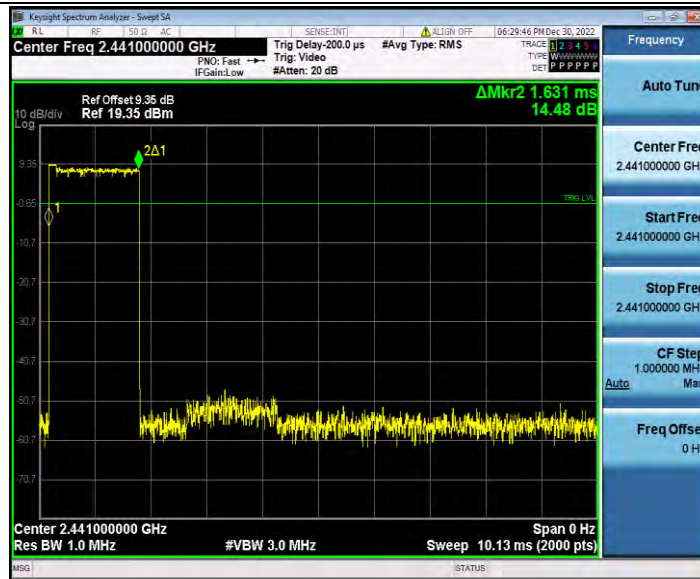




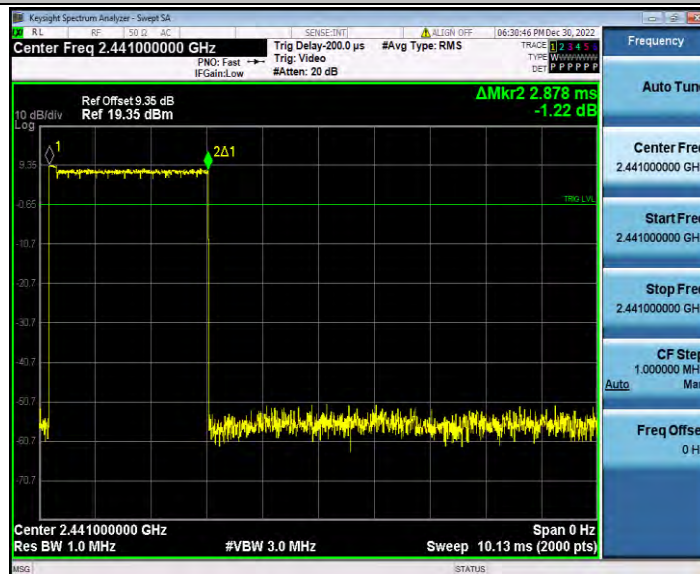
2DH1_Ant1_Hop

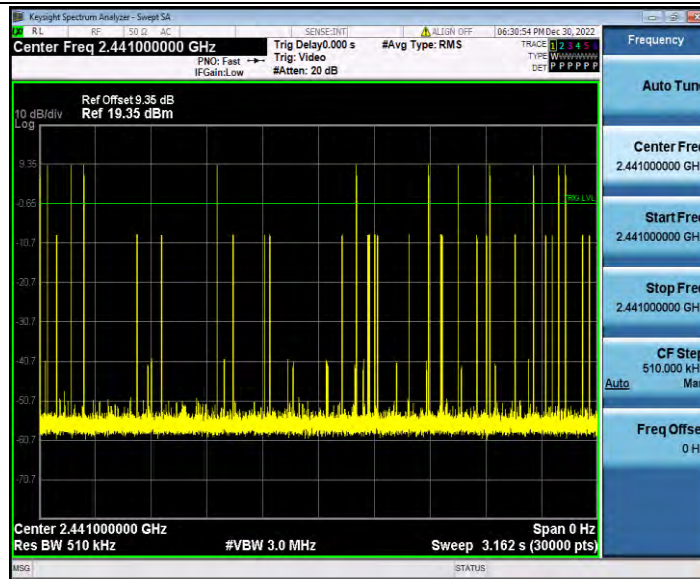


2DH3_Ant1_Hop

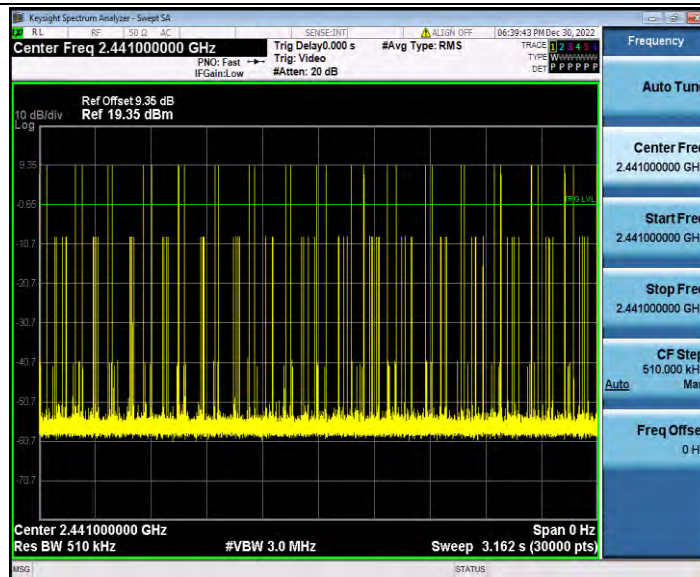
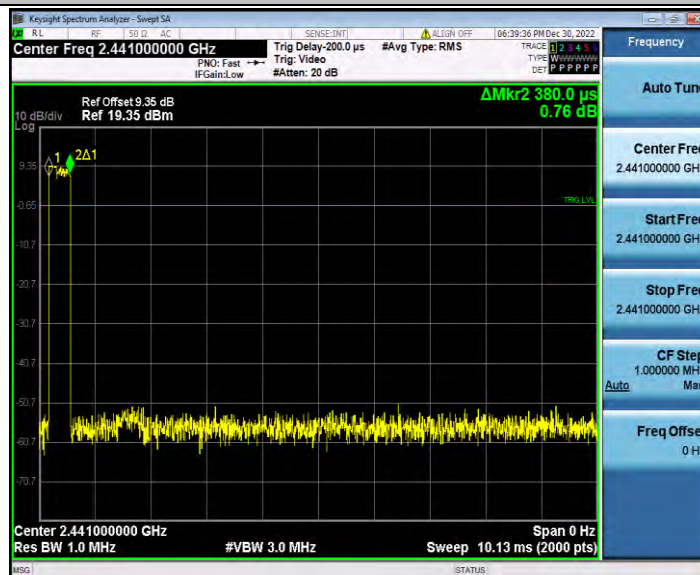


2DH5_Ant1_Hop

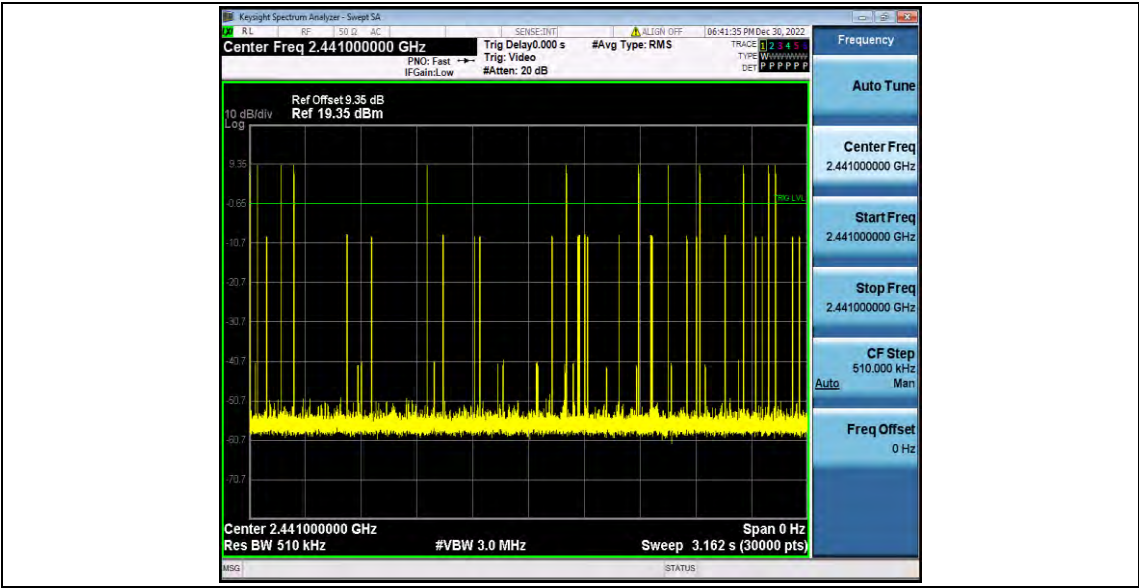




3DH1_Ant1_Hop



3DH3_Ant1_Hop



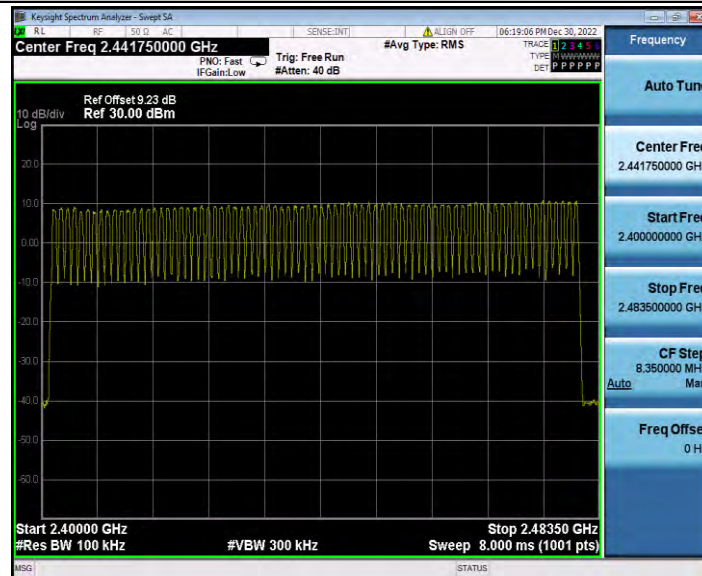
Appendix A.6: Number of hopping channels

Test Result

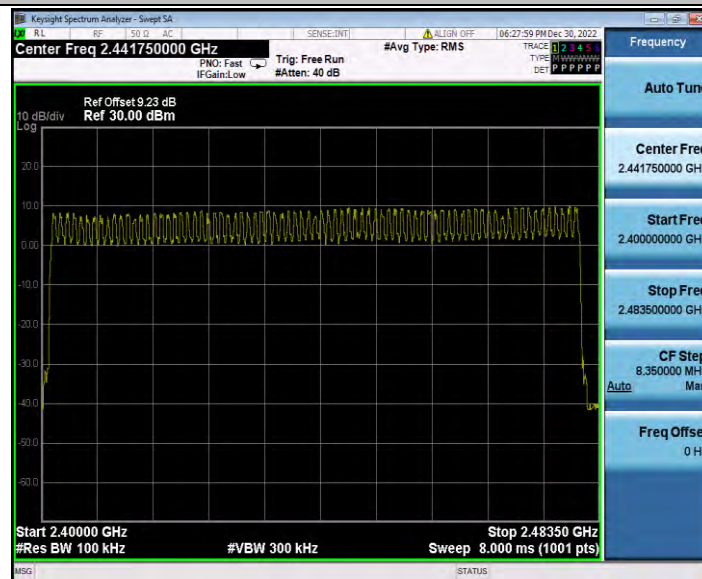
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Hop	79	≥15	PASS
2DH1	Ant1	Hop	79	≥15	PASS
3DH1	Ant1	Hop	79	≥15	PASS

Test Graphs

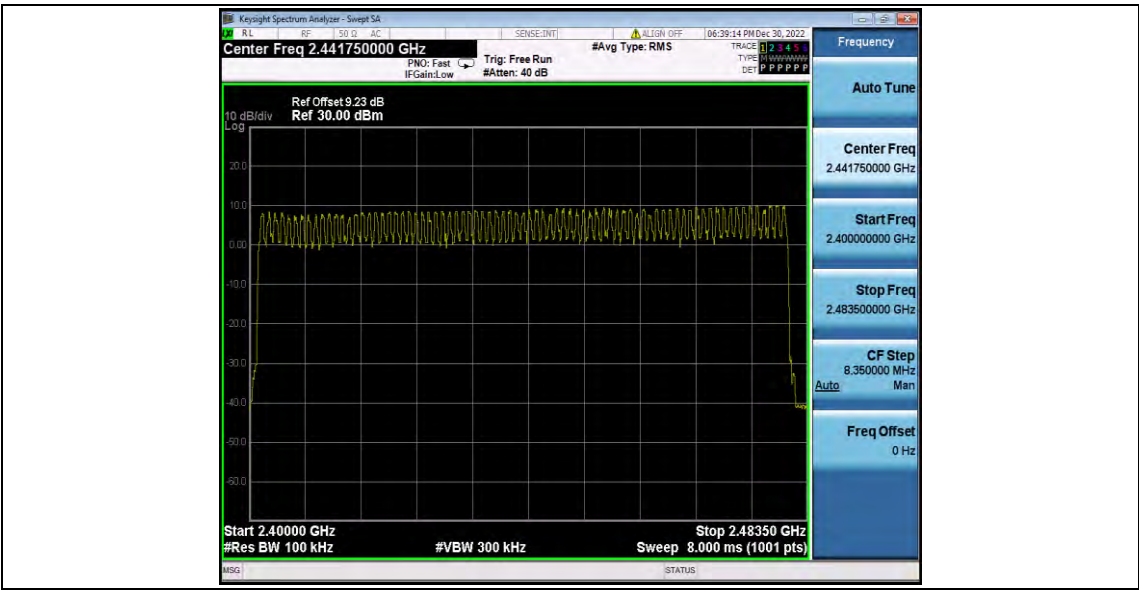
DH1_Ant1_Hop



2DH1_Ant1_Hop



3DH1_Ant1_Hop



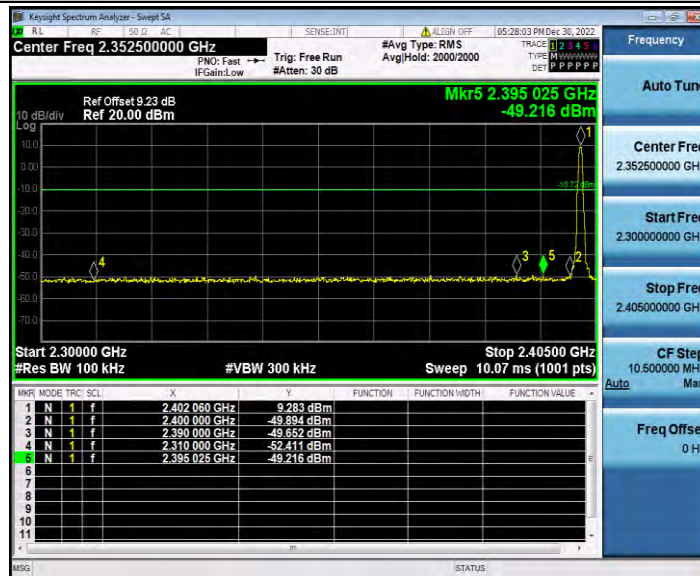
Appendix A.7: Band edge measurements

Test Result

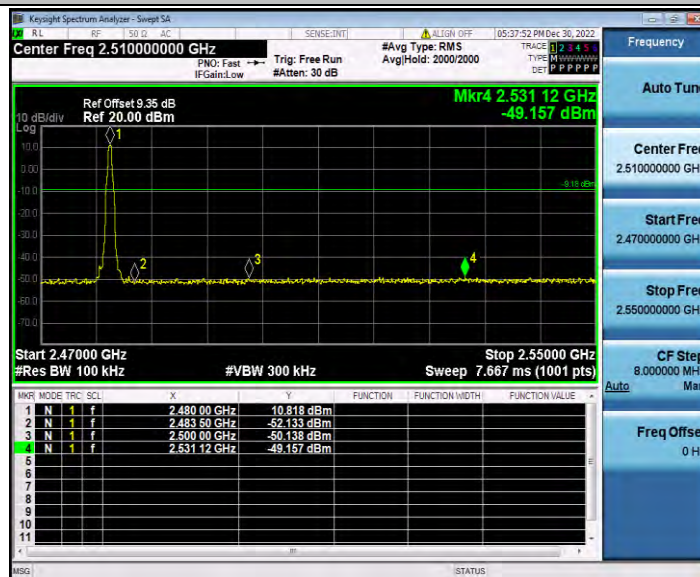
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	9.28	-49.22	≤-10.72	PASS
		High	2480	10.82	-49.16	≤-9.18	PASS
		Low	Hop_2402	9.00	-49.8	≤-11	PASS
		High	Hop_2480	10.47	-48.9	≤-9.53	PASS
2DH1	Ant1	Low	2402	8.26	-48.74	≤-11.74	PASS
		High	2480	10.00	-48.66	≤-10	PASS
		Low	Hop_2402	7.20	-48.99	≤-12.8	PASS
		High	Hop_2480	9.86	-48.76	≤-10.14	PASS
3DH1	Ant1	Low	2402	8.29	-45.66	≤-11.71	PASS
		High	2480	10.04	-48.04	≤-9.96	PASS
		Low	Hop_2402	7.01	-49.47	≤-12.99	PASS
		High	Hop_2480	9.63	-48.4	≤-10.37	PASS

Test Graphs

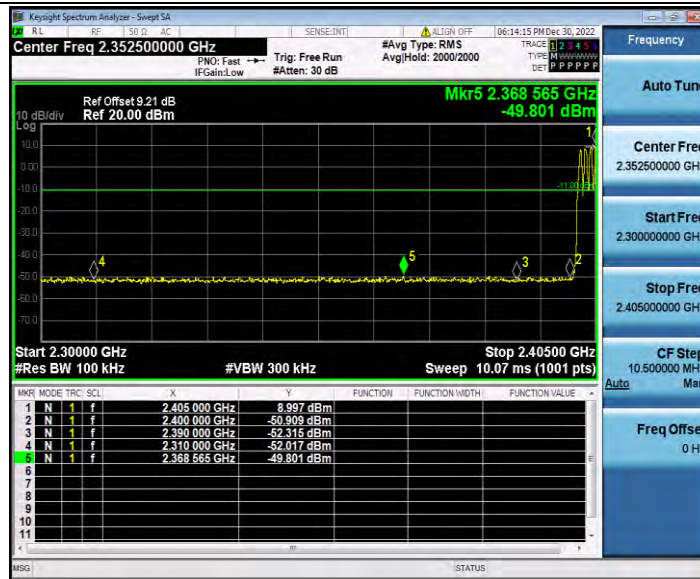
DH1_Ant1_Low_2402



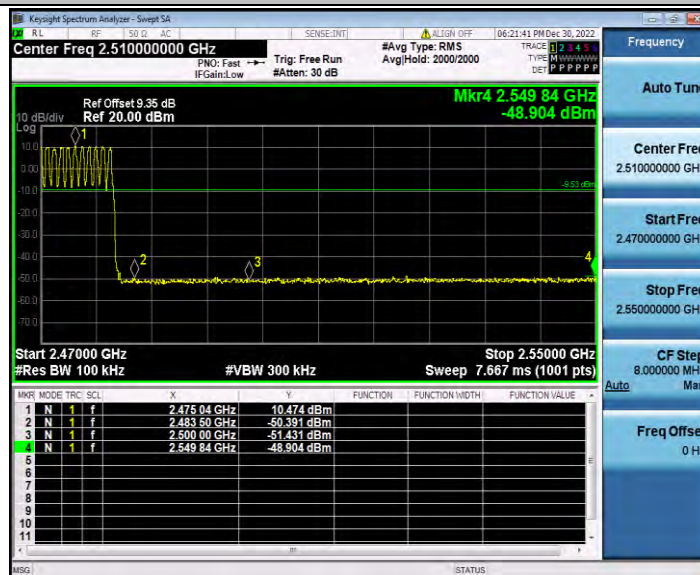
DH1_Ant1_High_2480



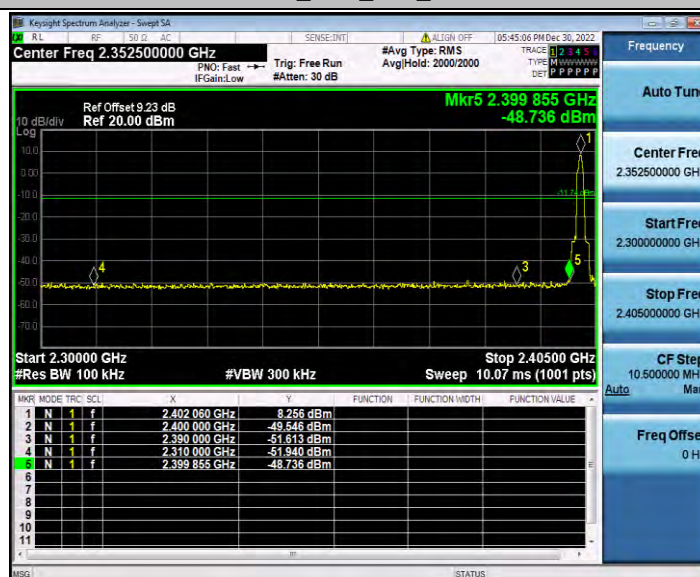
DH1_Ant1_Low_Hop_2402



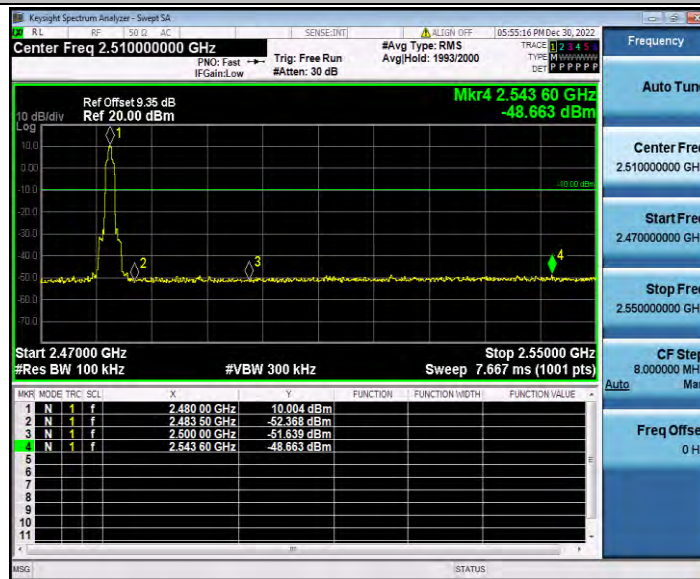
DH1_Ant1_High_Hop_2480



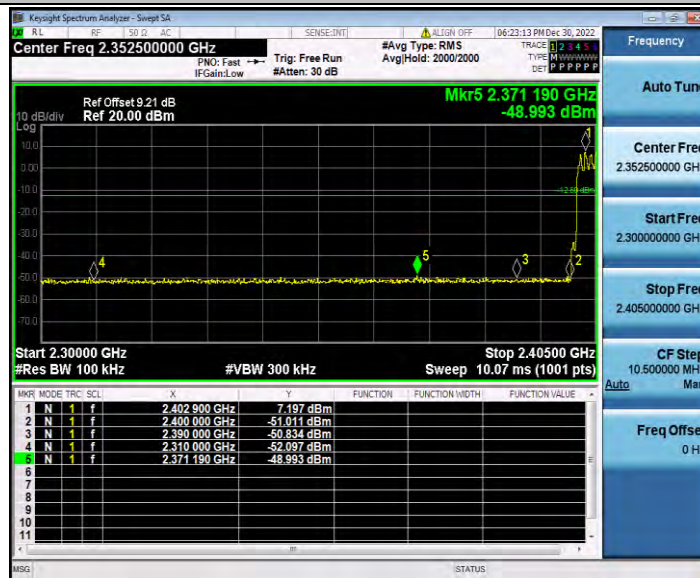
2DH1_Ant1_Low_2402



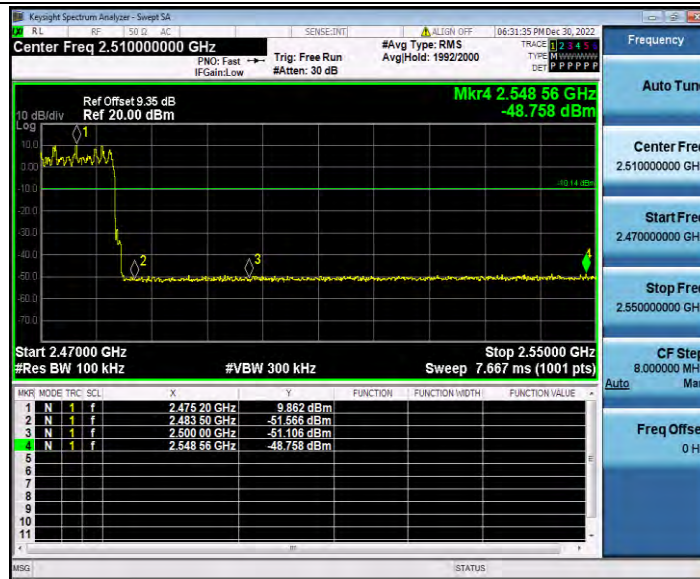
2DH1_Ant1_High_2480



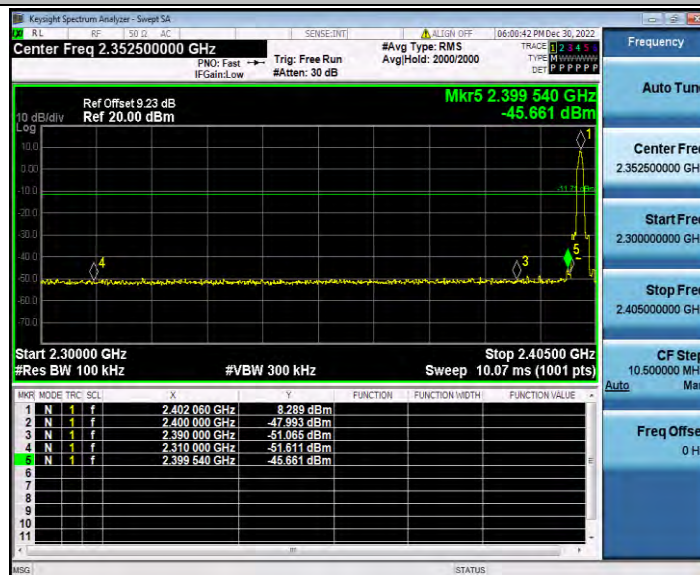
2DH1_Ant1_Low_Hop_2402



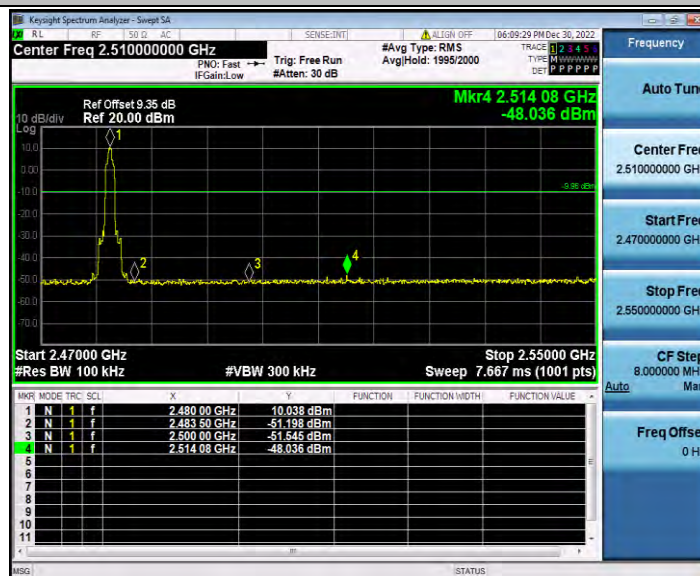
2DH1_Ant1_High_Hop_2480



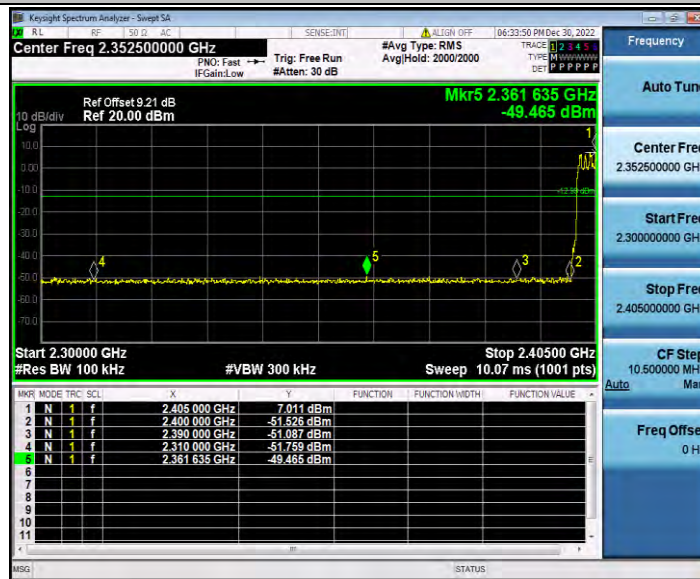
3DH1_Ant1_Low_2402



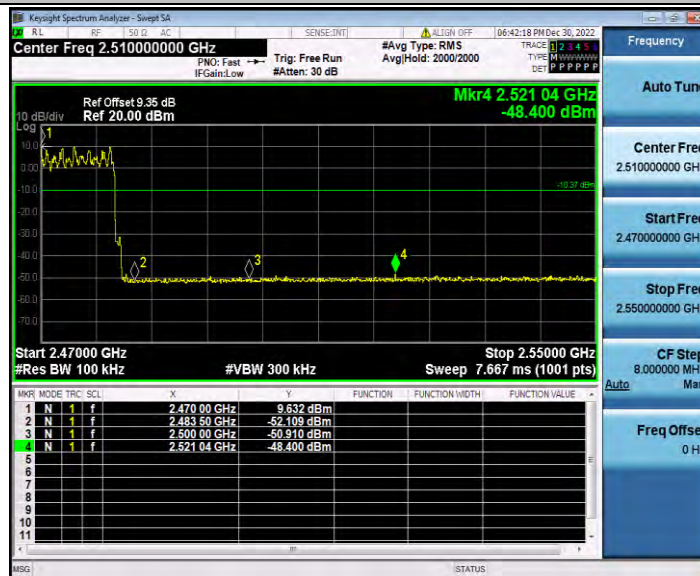
3DH1_Ant1_High_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480



Appendix A.8: Conducted Spurious Emission

Test Result

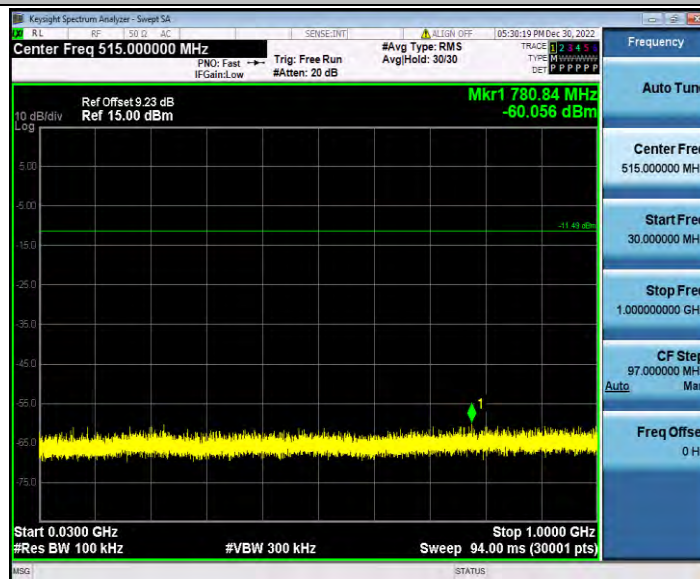
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	8.51	8.51	---	PASS
			30~1000	8.51	-60.06	≤-11.49	PASS
			1000~26500	8.51	-47.15	≤-11.49	PASS
		2441	Reference	9.67	9.67	---	PASS
			30~1000	9.67	-60.09	≤-10.33	PASS
			1000~26500	9.67	-47.71	≤-10.33	PASS
		2480	Reference	10.37	10.37	---	PASS
			30~1000	10.37	-59.16	≤-9.63	PASS
			1000~26500	10.37	-47.61	≤-9.63	PASS
2DH1	Ant1	2402	Reference	8.07	8.07	---	PASS
			30~1000	8.07	-58.77	≤-11.93	PASS
			1000~26500	8.07	-47.78	≤-11.93	PASS
		2441	Reference	8.60	8.60	---	PASS
			30~1000	8.60	-59.96	≤-11.4	PASS
			1000~26500	8.60	-47.23	≤-11.4	PASS
		2480	Reference	9.66	9.66	---	PASS
			30~1000	9.66	-59.13	≤-10.34	PASS
			1000~26500	9.66	-47.38	≤-10.34	PASS
3DH1	Ant1	2402	Reference	7.37	7.37	---	PASS
			30~1000	7.37	-60.06	≤-12.63	PASS
			1000~26500	7.37	-44.9	≤-12.63	PASS
		2441	Reference	8.86	8.86	---	PASS
			30~1000	8.86	-59.84	≤-11.14	PASS
			1000~26500	8.86	-42.66	≤-11.14	PASS
		2480	Reference	9.22	9.22	---	PASS
			30~1000	9.22	-60.22	≤-10.78	PASS
			1000~26500	9.22	-47.61	≤-10.78	PASS

Test Graphs

DH1_Ant1_2402_0~Reference



DH1_Ant1_2402_30~1000



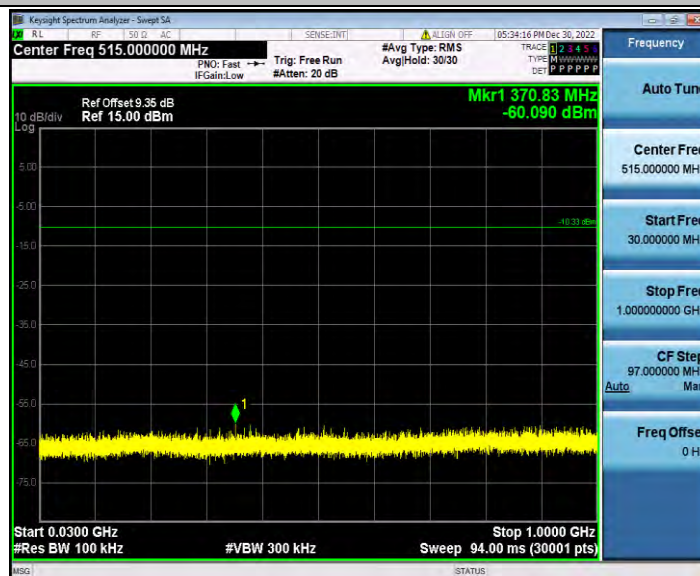
DH1_Ant1_2402_1000~26500



DH1_Ant1_2441_0~Reference



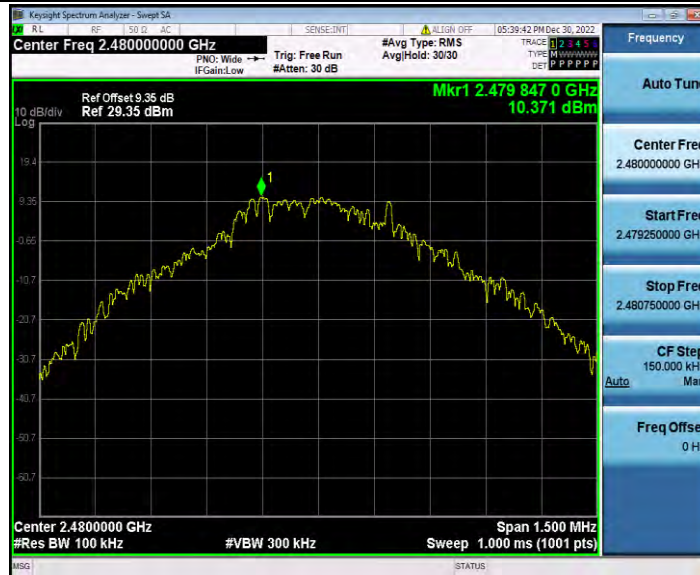
DH1_Ant1_2441_30~1000



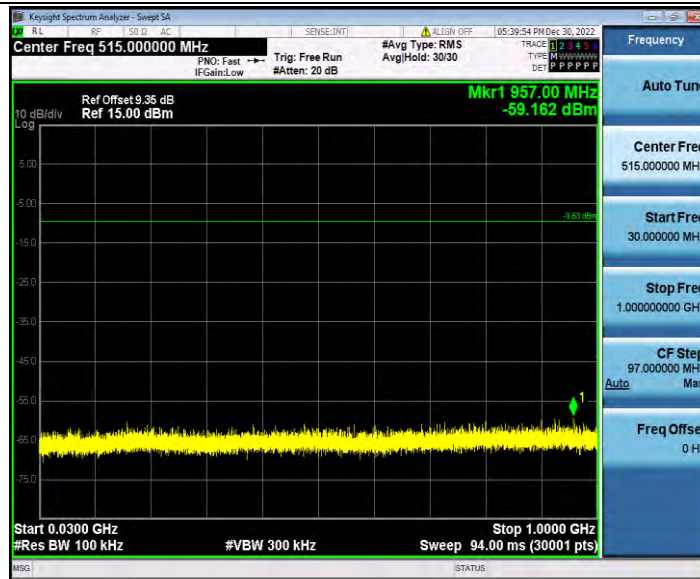
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000



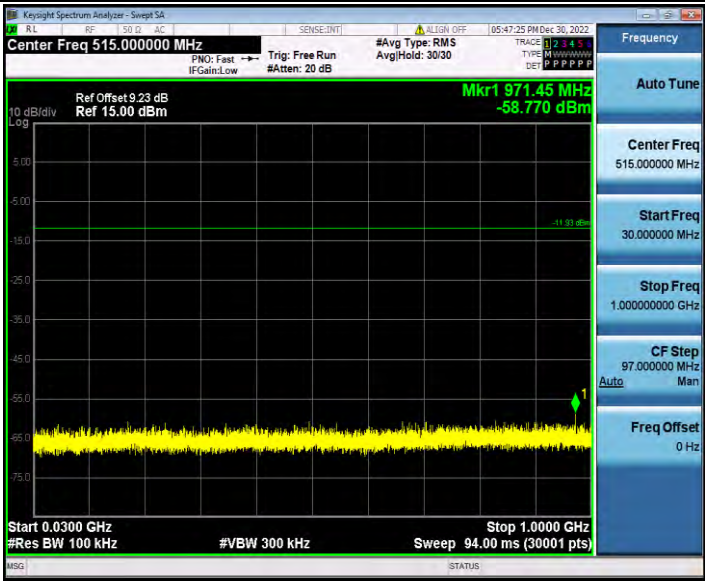
DH1_Ant1_2480_1000~26500



2DH1_Ant1_2402_0~Reference



2DH1_Ant1_2402_30~1000



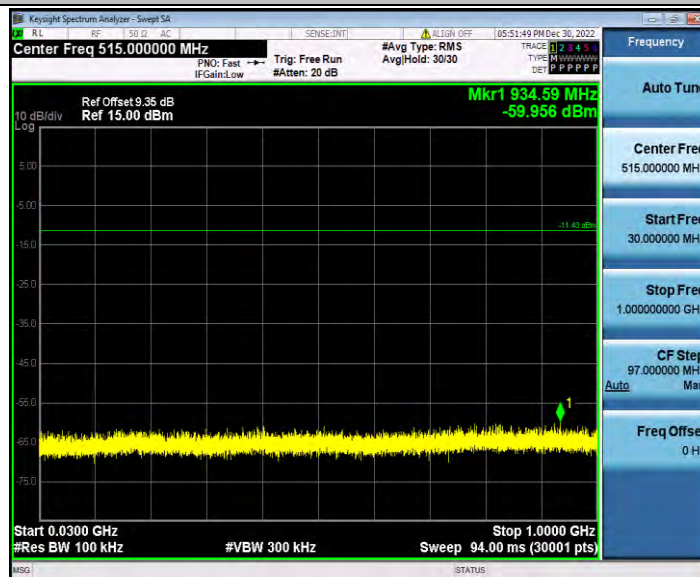
2DH1_Ant1_2402_1000~26500



2DH1_Ant1_2441_0~Reference



2DH1_Ant1_2441_30~1000



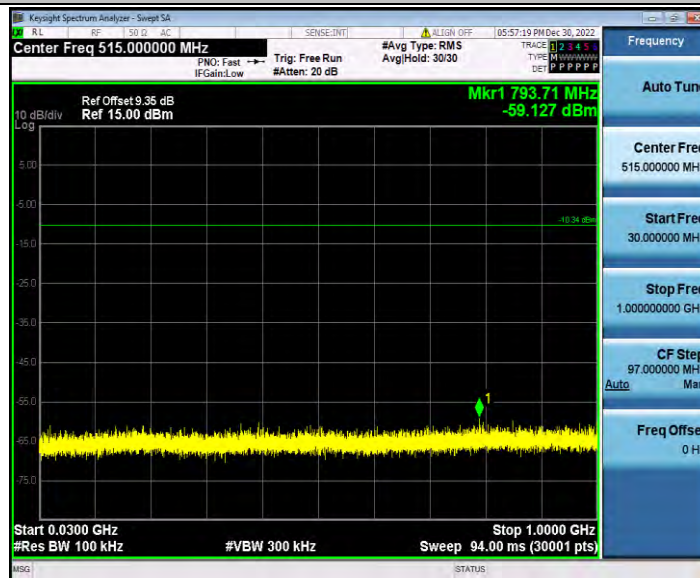
2DH1_Ant1_2441_1000~26500



2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



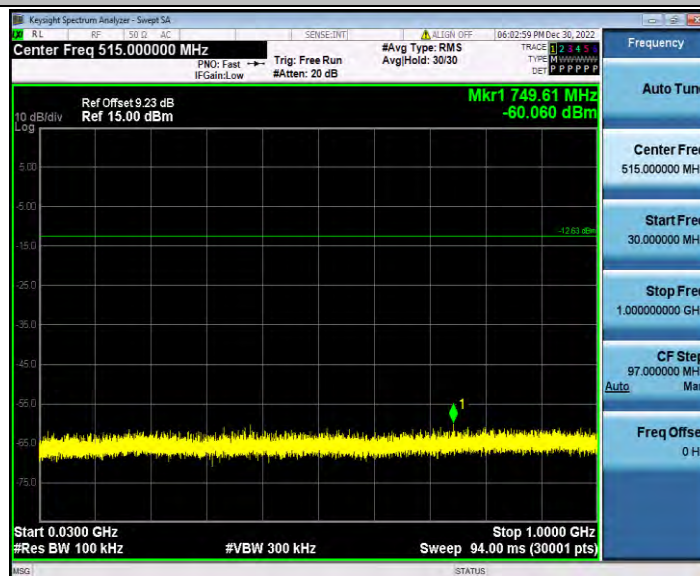
2DH1_Ant1_2480_1000~26500



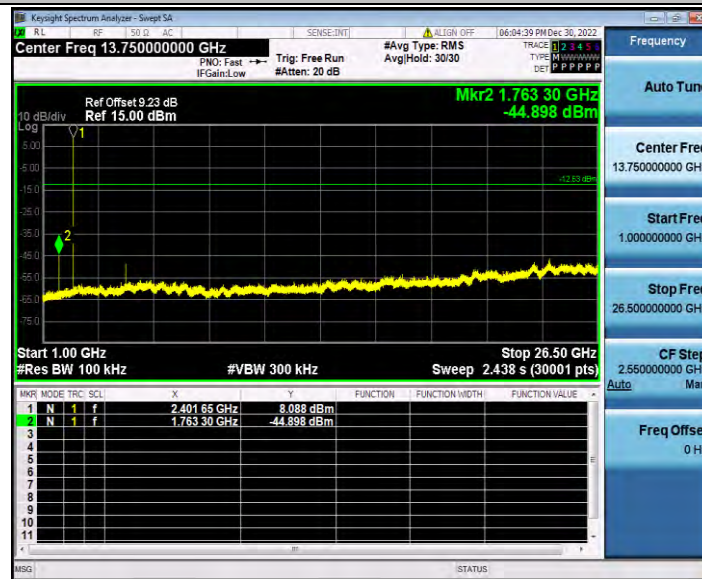
3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



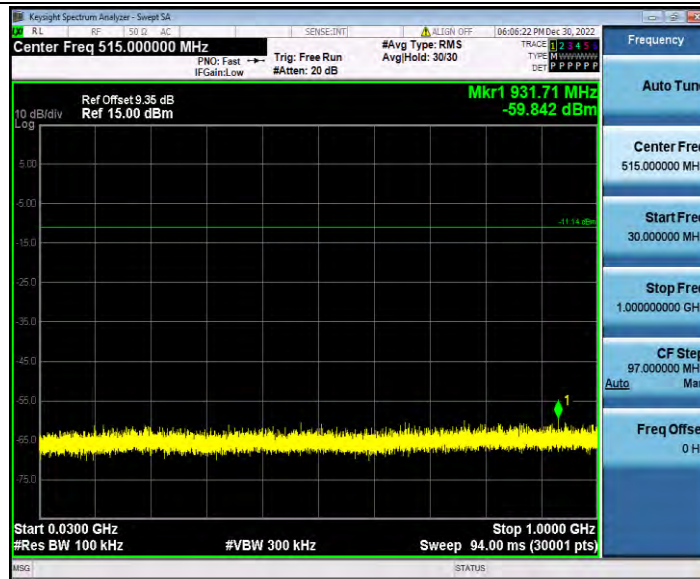
3DH1_Ant1_2402_1000~26500



3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000



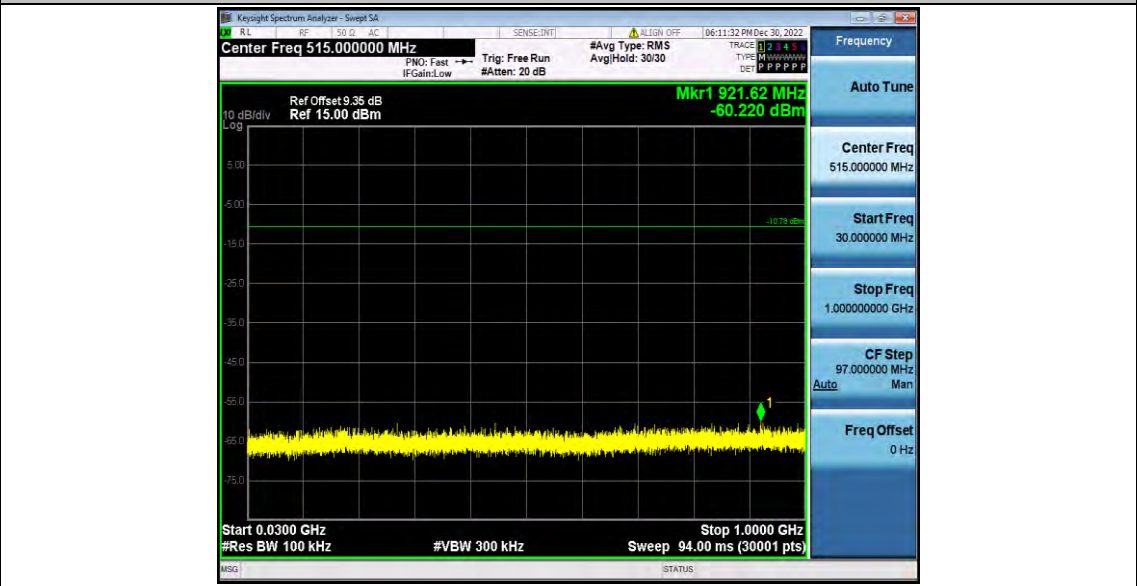
3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference



3DH1_Ant1_2480_30~1000



3DH1_Ant1_2480_1000~26500

