

Case No. : GTS20211218008-1-33	
Ambient Condition: 25 °C, 45 %RH, Atmos100.1Kpa	
Test Date: 2022.8.3	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	1.038	2401.469	2402.507	---	---
		2441	1.044	2440.457	2441.501	---	---
		2480	1.044	2479.460	2480.504	---	---
2DH1	Ant1	2402	1.356	2401.319	2402.675	---	---
		2441	1.347	2440.319	2441.666	---	---
		2480	1.347	2479.304	2480.651	---	---
3DH1	Ant1	2402	1.296	2401.364	2402.660	---	---
		2441	1.287	2440.343	2441.630	---	---
		2480	1.281	2479.337	2480.618	---	---



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	0.92942	2401.533	2402.463	---	---
		2441	0.91303	2440.532	2441.445	---	---
		2480	0.94130	2479.512	2480.453	---	---
2DH1	Ant1	2402	1.1996	2401.384	2402.584	---	---
		2441	1.1982	2440.380	2441.578	---	---
		2480	1.1948	2479.371	2480.566	---	---
3DH1	Ant1	2402	1.1831	2401.414	2402.597	---	---
		2441	1.1809	2440.408	2441.589	---	---
		2480	1.1794	2479.401	2480.580	---	---

Test Graphs

DH1_Ant1_2402



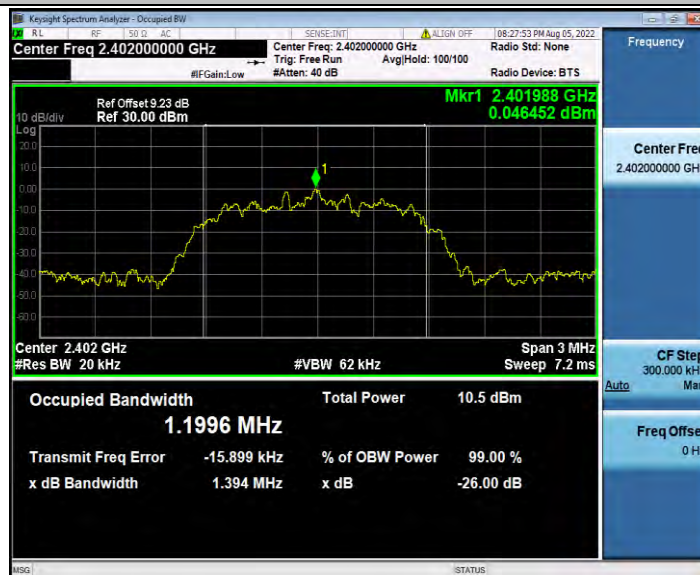
DH1_Ant1_2441



DH1_Ant1_2480



2DH1_Ant1_2402



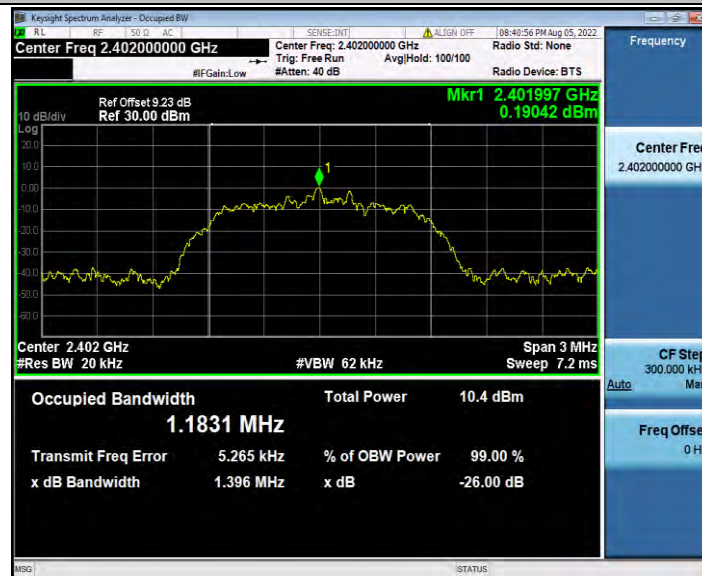
2DH1_Ant1_2441



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	7.51	≤20.97	PASS
		2441	8.92	≤20.97	PASS
		2480	7.82	≤20.97	PASS
2DH1	Ant1	2402	5.94	≤20.97	PASS
		2441	7.50	≤20.97	PASS
		2480	6.32	≤20.97	PASS
3DH1	Ant1	2402	6.23	≤20.97	PASS
		2441	7.92	≤20.97	PASS
		2480	6.68	≤20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.992	≥ 0.696	PASS
		Hop_2441	0.852	≥ 0.696	PASS
		Hop_2480	1.004	≥ 0.696	PASS
2DH1	Ant1	Hop_2402	1.002	≥ 0.904	PASS
		Hop_2441	1.008	≥ 0.904	PASS
		Hop_2480	0.996	≥ 0.904	PASS
3DH1	Ant1	Hop_2402	1.012	≥ 0.864	PASS
		Hop_2441	0.99	≥ 0.864	PASS
		Hop_2480	0.996	≥ 0.864	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



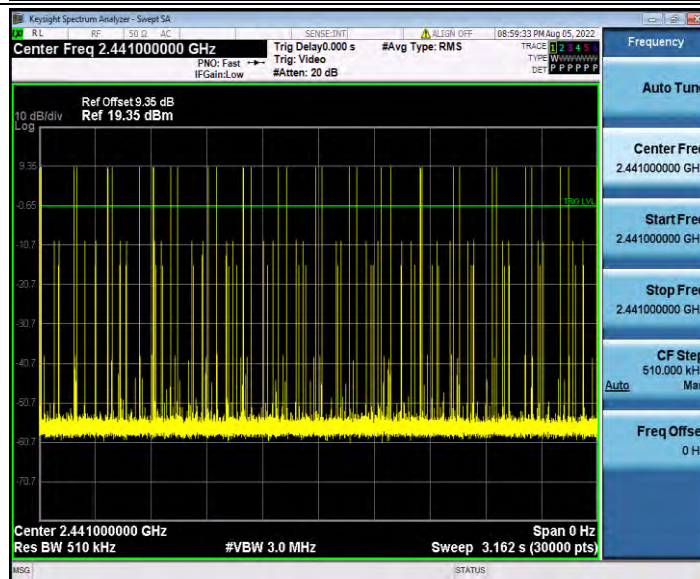
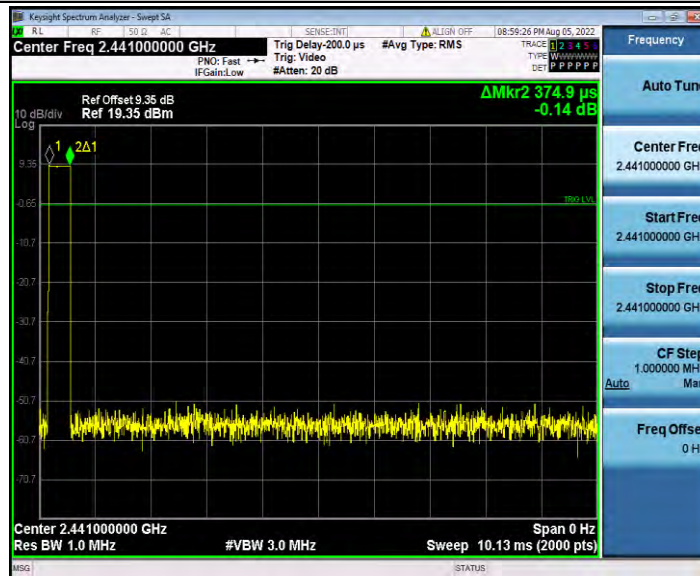
Appendix A.5: Time of occupancy

Test Result

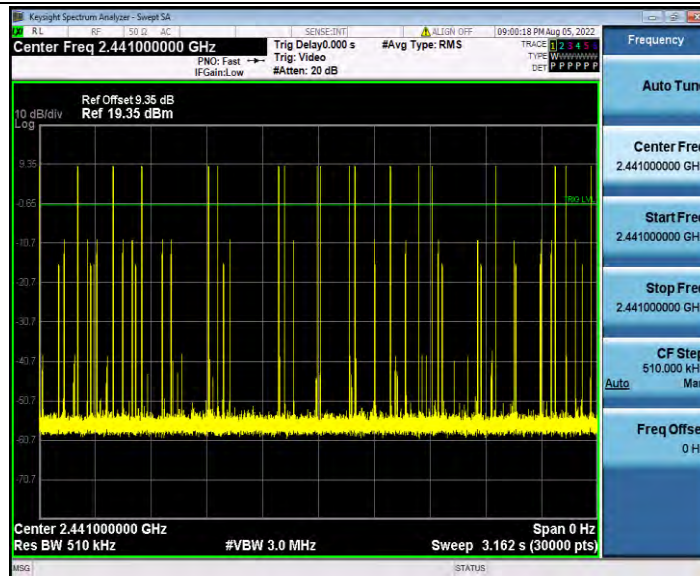
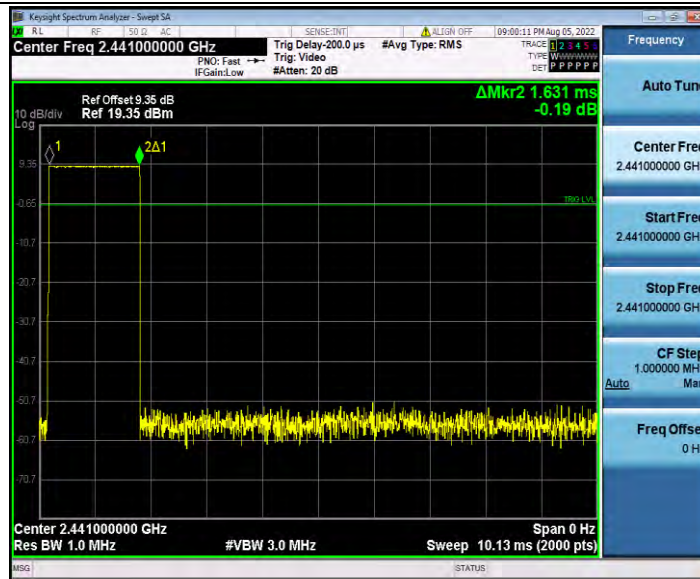
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	330	0.124	≤0.4	PASS
DH3	Ant1	Hop	1.63	190	0.31	≤0.4	PASS
DH5	Ant1	Hop	2.88	70	0.201	≤0.4	PASS
2DH1	Ant1	Hop	0.38	310	0.118	≤0.4	PASS
2DH3	Ant1	Hop	1.63	200	0.326	≤0.4	PASS
2DH5	Ant1	Hop	2.88	90	0.259	≤0.4	PASS
3DH1	Ant1	Hop	0.37	330	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.62	190	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.88	120	0.345	≤0.4	PASS

Test Graphs

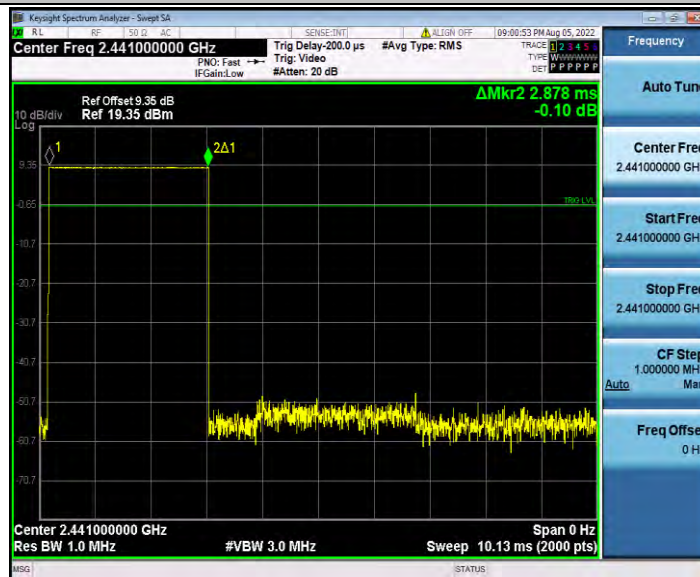
DH1_Ant1_Hop

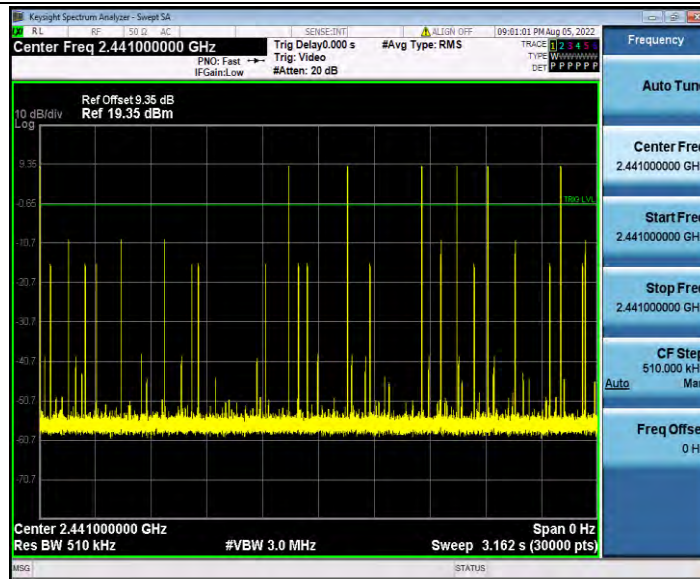


DH3_Ant1_Hop

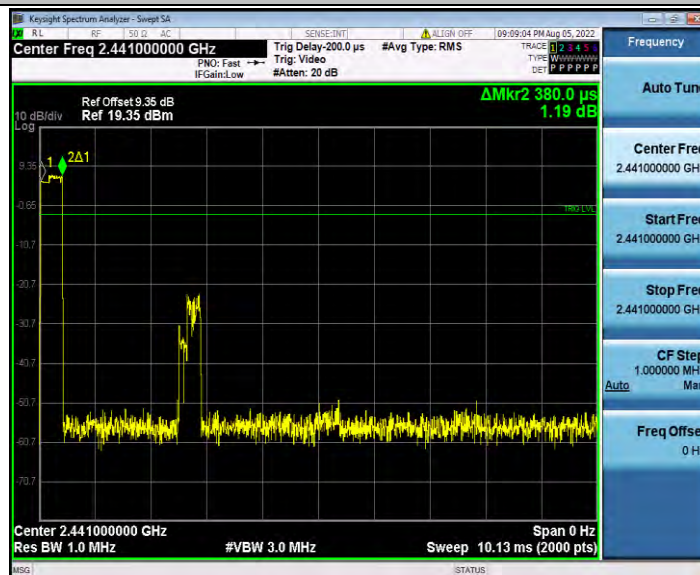


DH5_Ant1_Hop

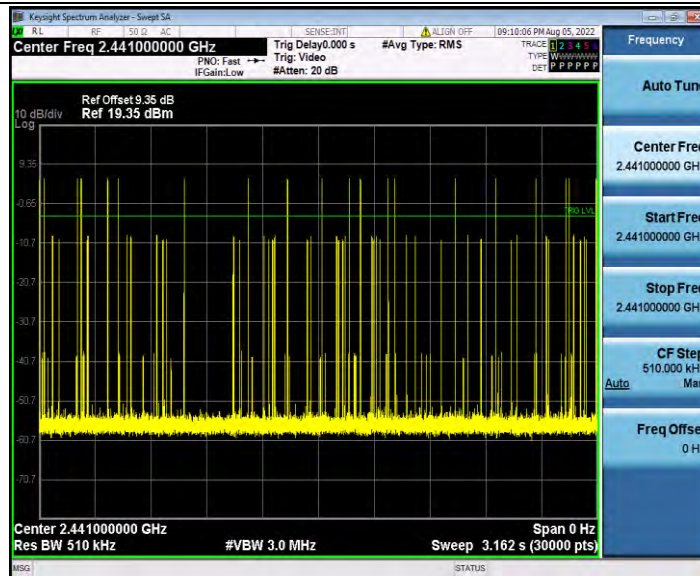
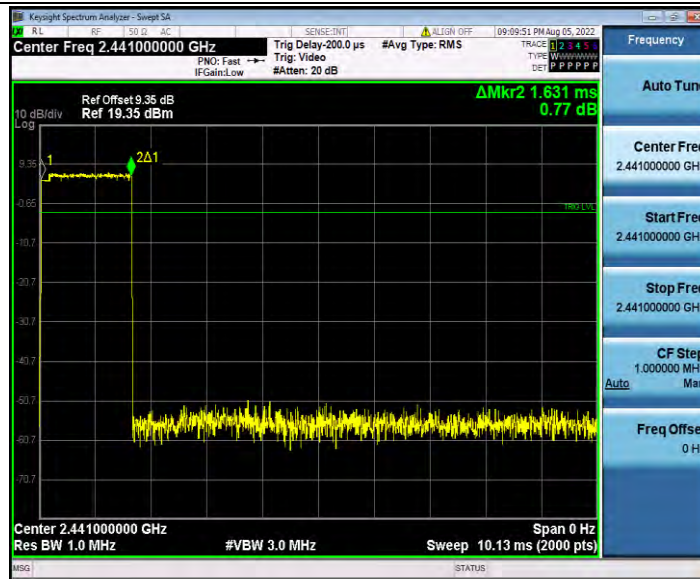




2DH1_Ant1_Hop

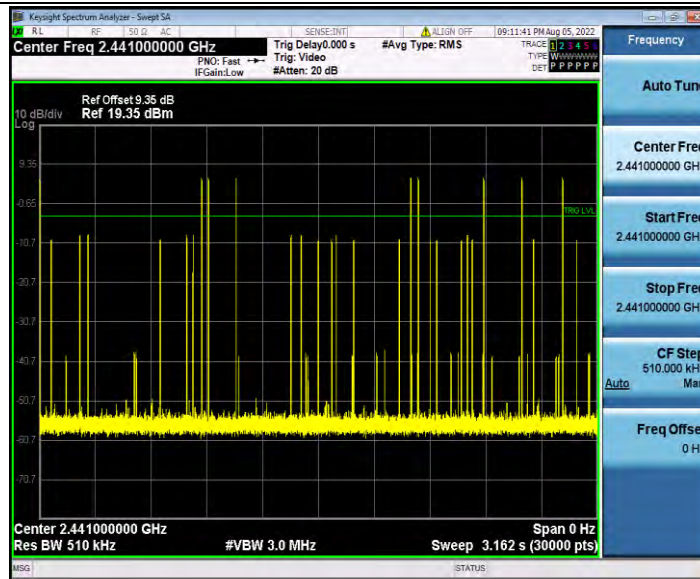


2DH3_Ant1_Hop

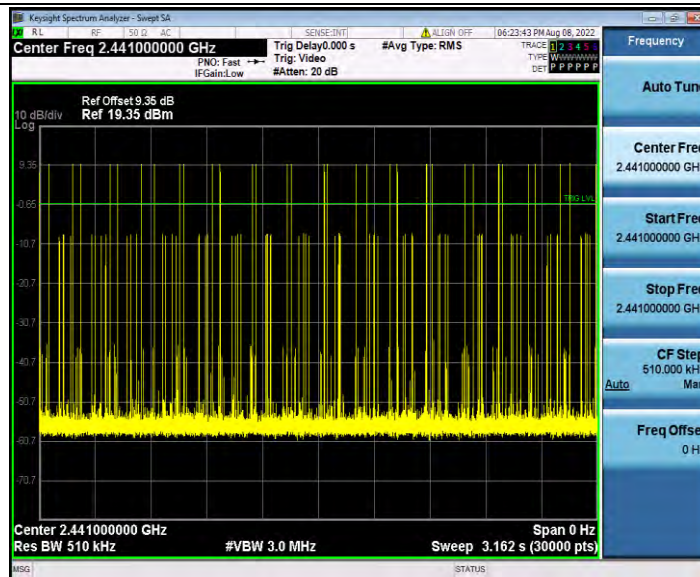
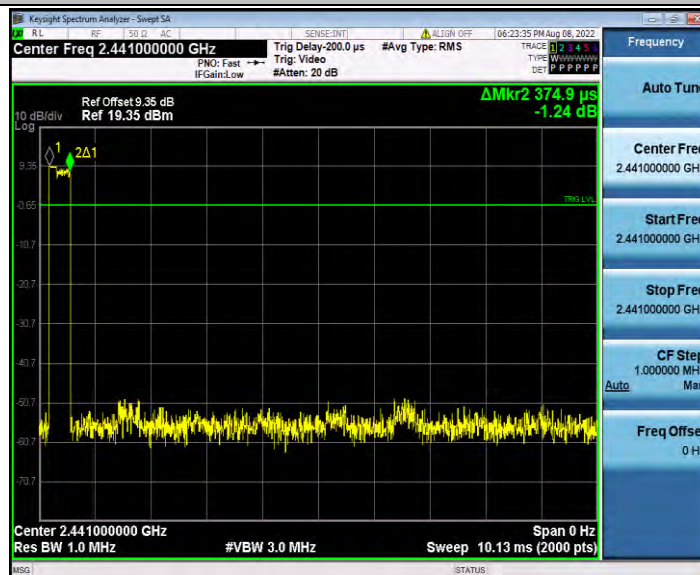


2DH5_Ant1_Hop

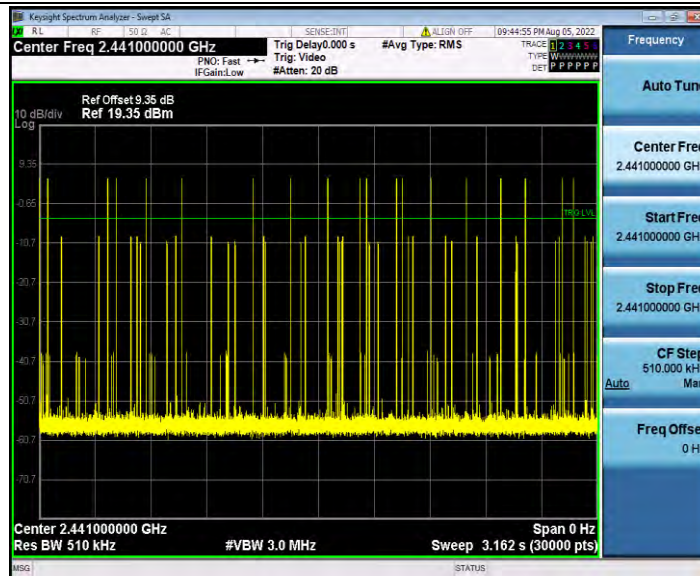
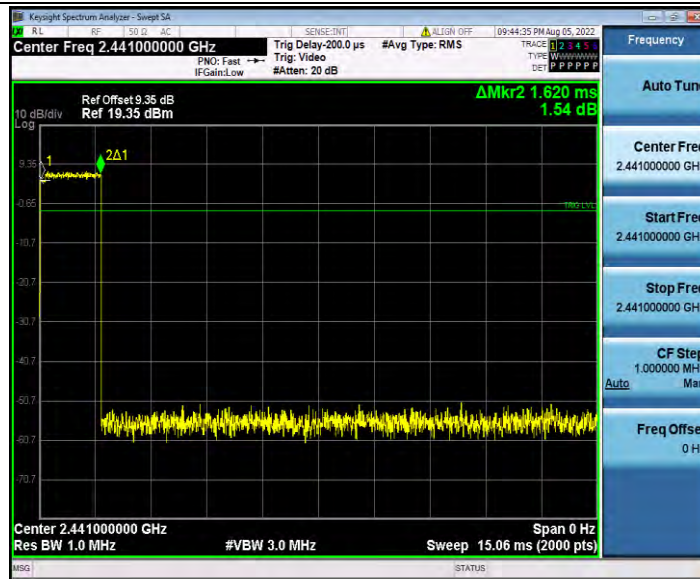




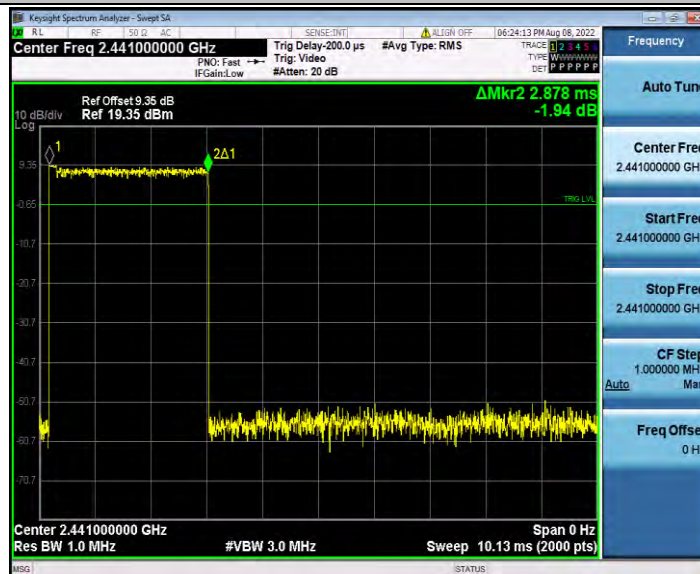
3DH1_Ant1_Hop

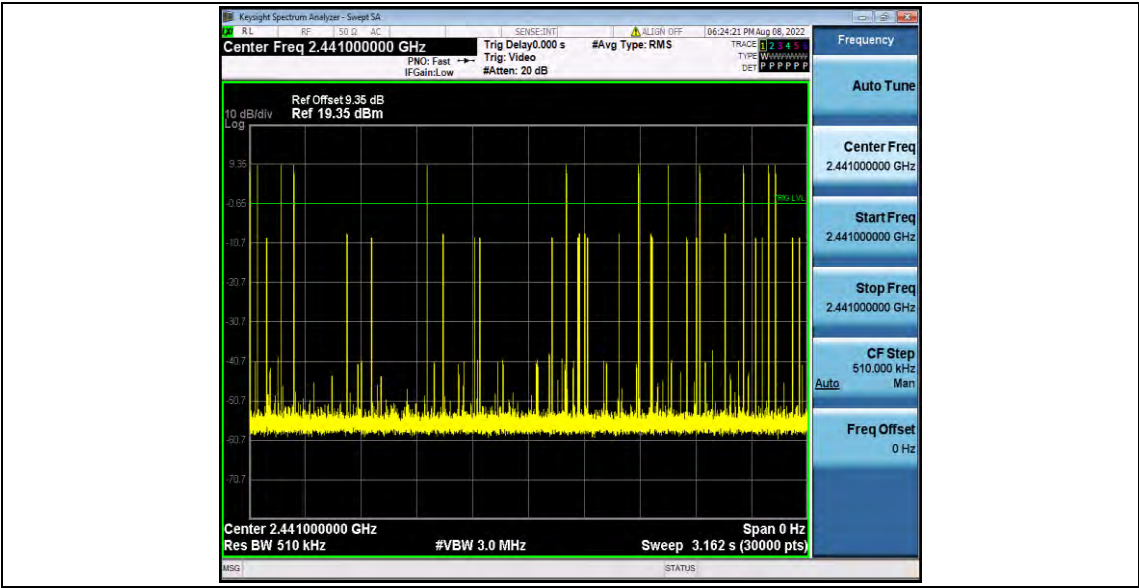


3DH3_Ant1_Hop



3DH5_Ant1_Hop





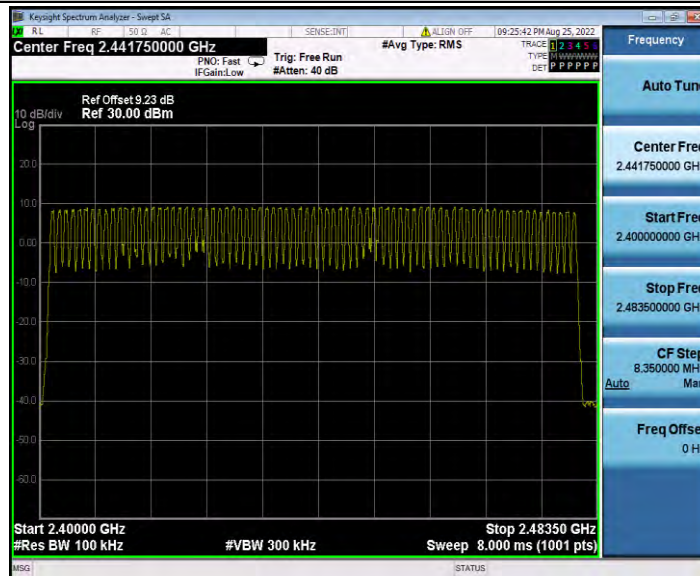
Appendix A.6: Number of hopping channels

Test Result

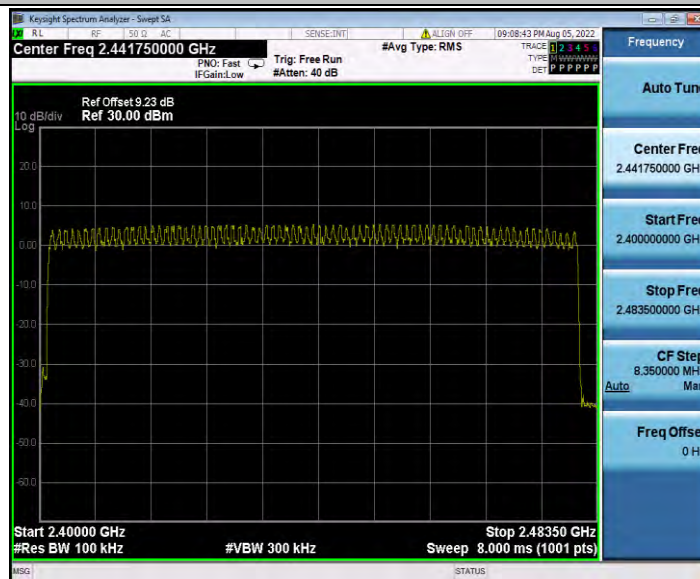
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Hop	79	≥15	PASS
2DH1	Ant1	Hop	79	≥15	PASS
3DH1	Ant1	Hop	79	≥15	PASS

Test Graphs

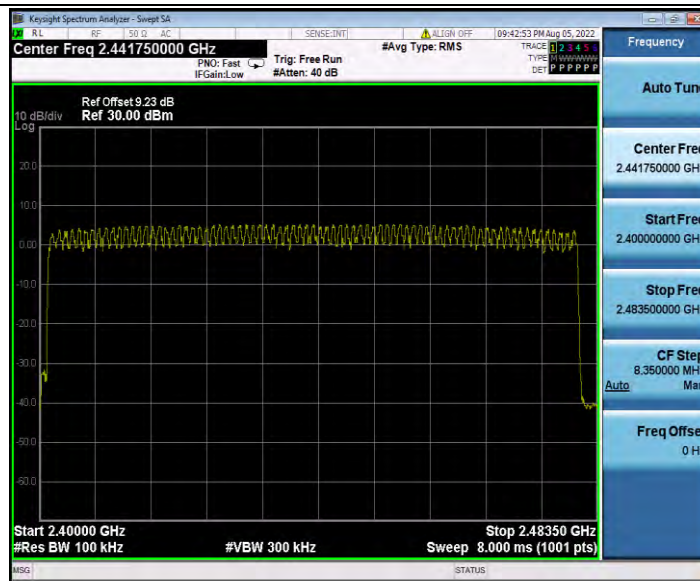
DH1_Ant1_Hop



2DH1_Ant1_Hop



3DH1_Ant1_Hop



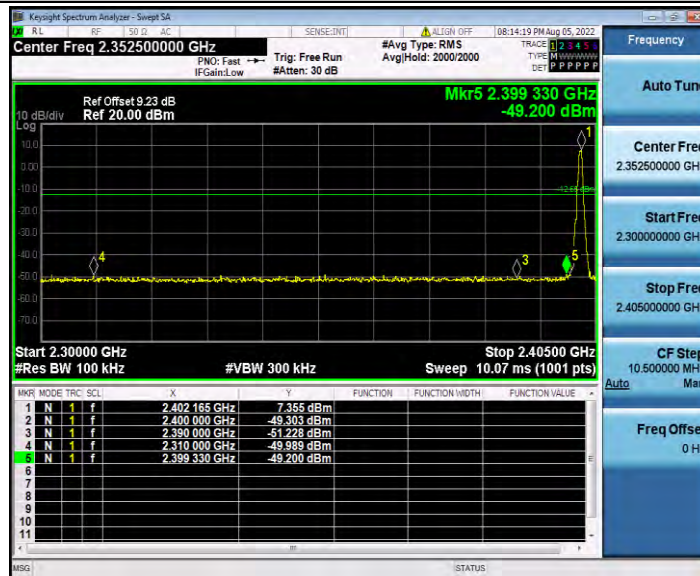
Appendix A.7: Band edge measurements

Test Result

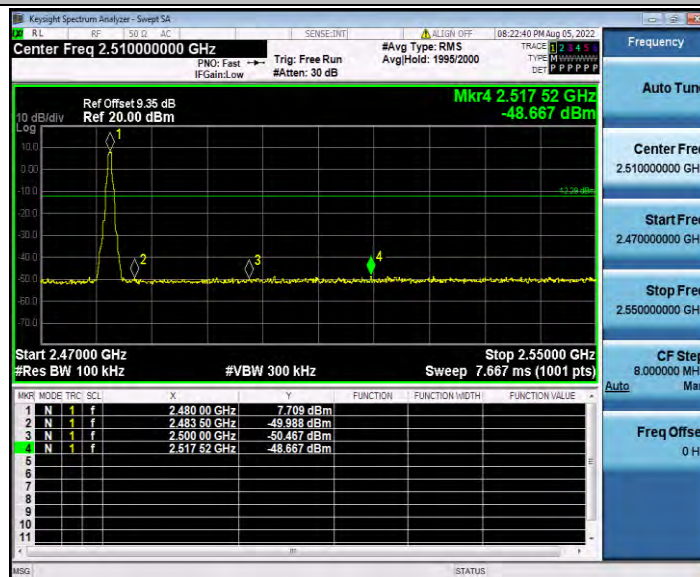
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	7.36	-49.2	≤-12.65	PASS
		High	2480	7.71	-48.67	≤-12.29	PASS
		Low	Hop_2402	6.51	-49.36	≤-13.49	PASS
		High	Hop_2480	7.97	-45.08	≤-12.03	PASS
2DH1	Ant1	Low	2402	3.81	-49.01	≤-16.19	PASS
		High	2480	3.93	-48.93	≤-16.07	PASS
		Low	Hop_2402	3.98	-48.85	≤-16.02	PASS
		High	Hop_2480	4.66	-48.18	≤-15.34	PASS
3DH1	Ant1	Low	2402	3.80	-47.96	≤-16.2	PASS
		High	2480	3.97	-47.07	≤-16.03	PASS
		Low	Hop_2402	3.45	-49.53	≤-16.55	PASS
		High	Hop_2480	4.52	-47.92	≤-15.48	PASS

Test Graphs

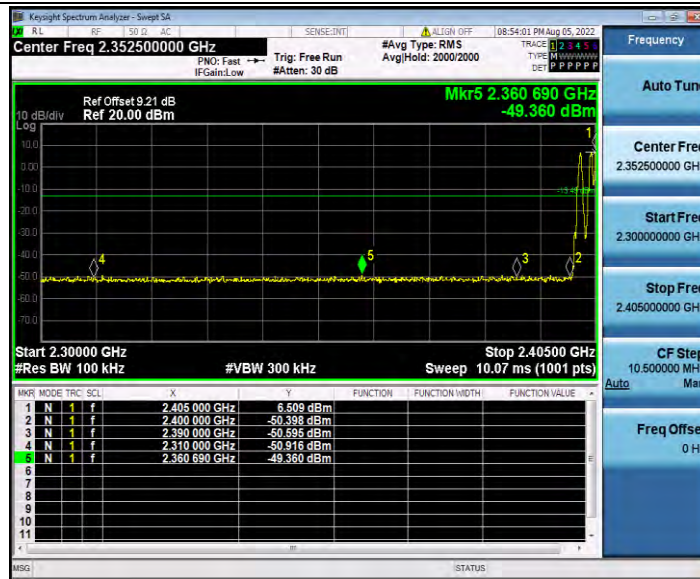
DH1_Ant1_Low_2402



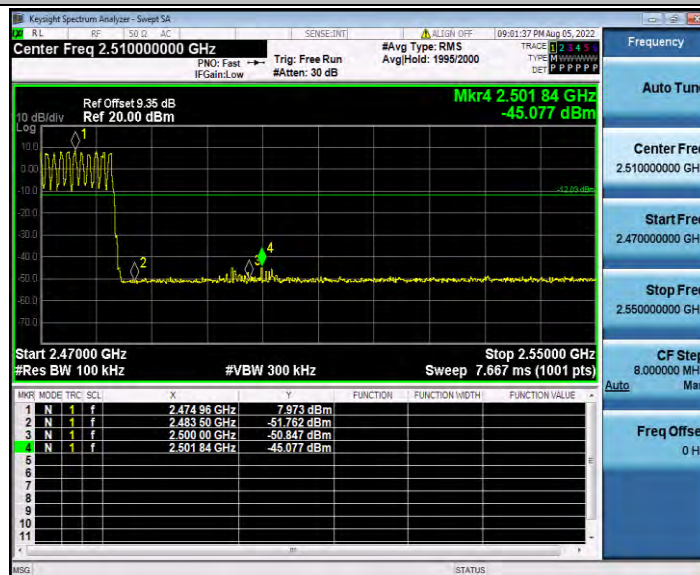
DH1_Ant1_High_2480



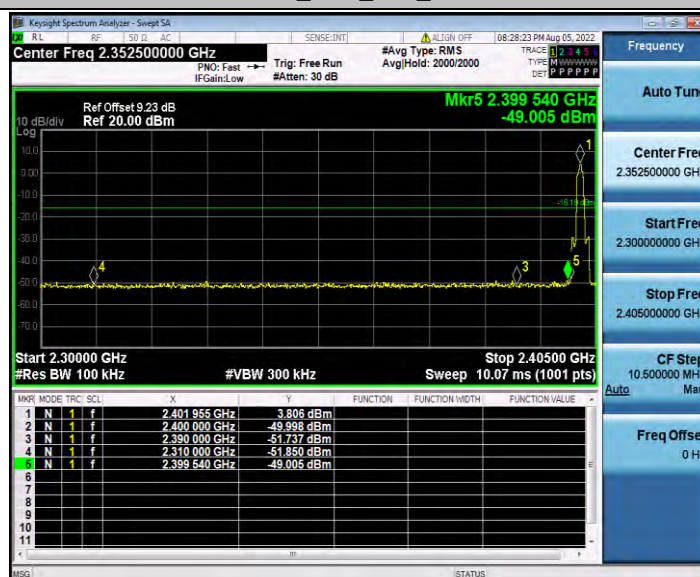
DH1_Ant1_Low_Hop_2402



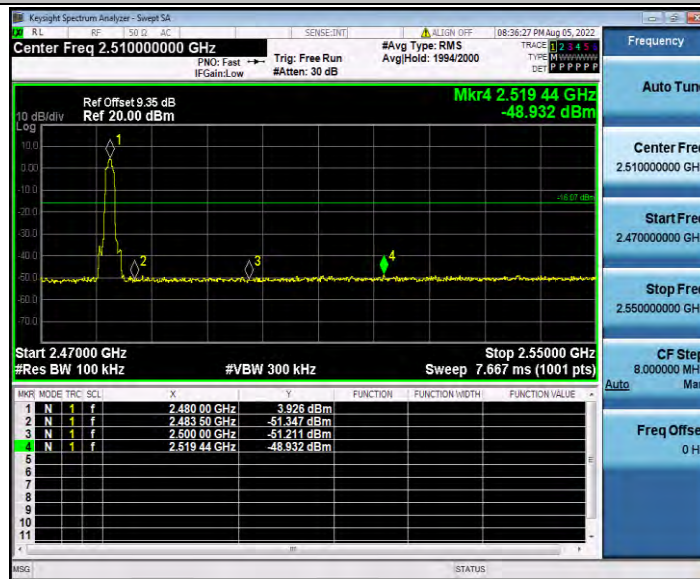
DH1_Ant1_High_Hop_2480



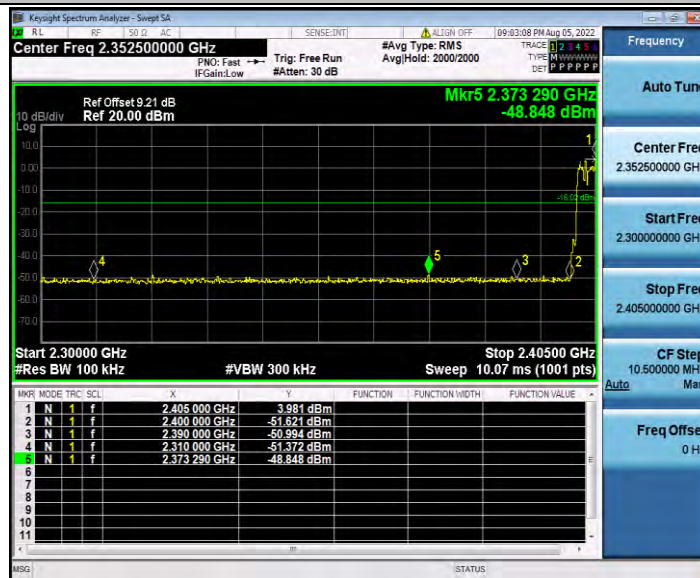
2DH1_Ant1_Low_2402



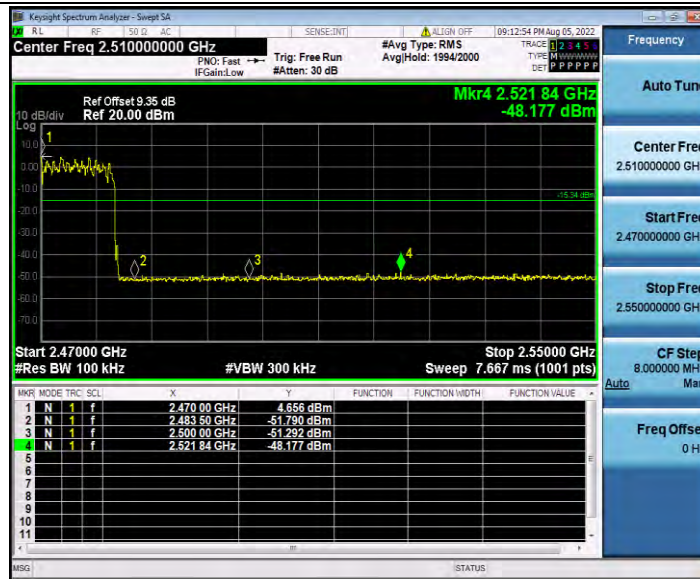
2DH1_Ant1_High_2480



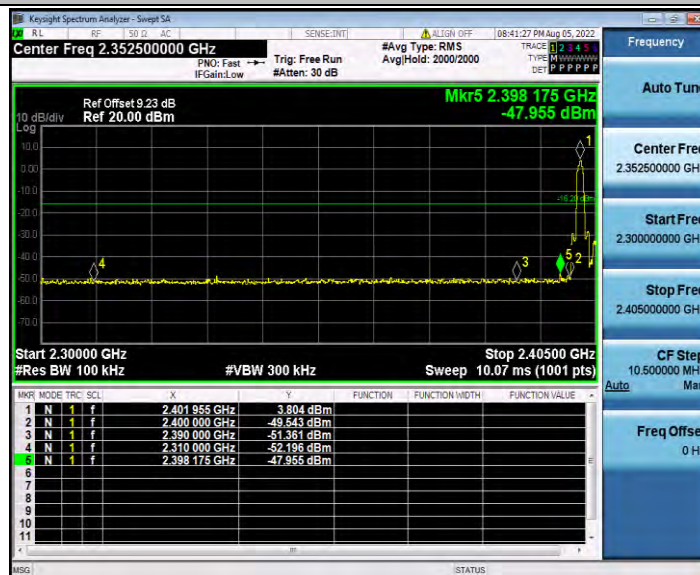
2DH1_Ant1_Low_Hop_2402



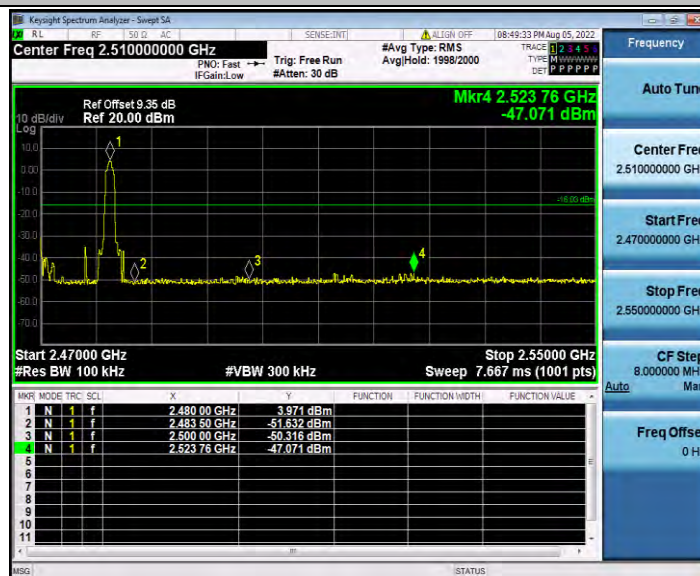
2DH1_Ant1_High_Hop_2480



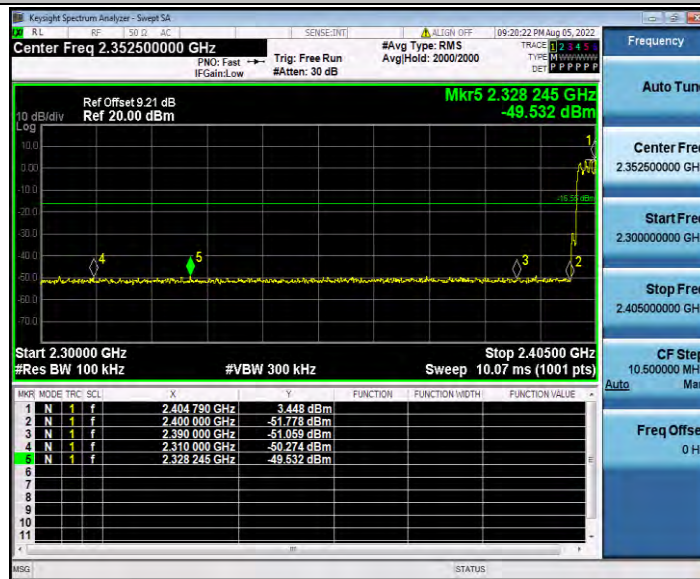
3DH1_Ant1_Low_2402



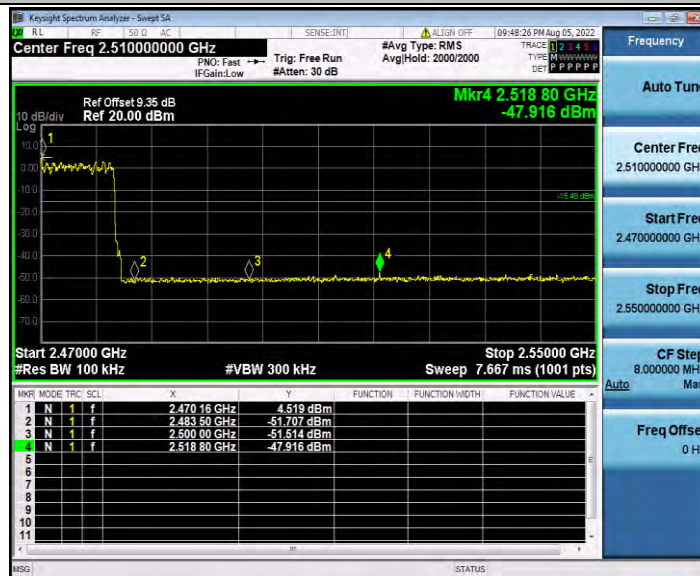
3DH1_Ant1_High_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480



Appendix A.8: Conducted Spurious Emission

Test Result

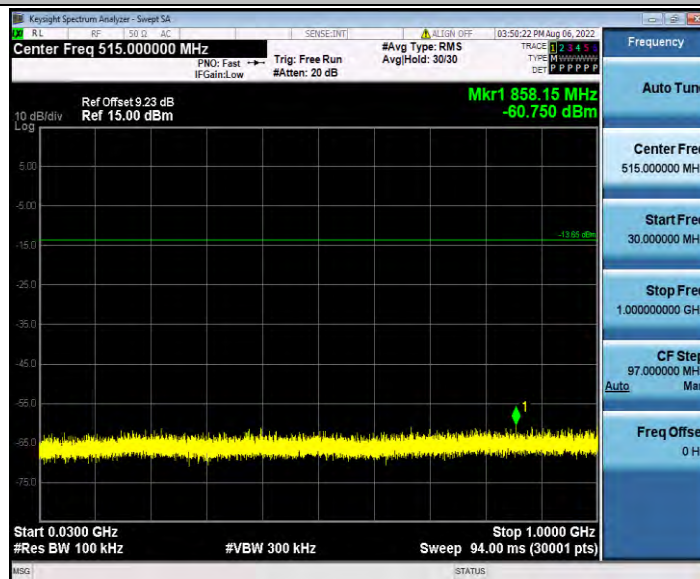
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	6.35	6.35	---	PASS
			30~1000	6.35	-60.75	≤-13.65	PASS
			1000~26500	6.35	-47.67	≤-13.65	PASS
		2441	Reference	8.35	8.35	---	PASS
			30~1000	8.35	-60.48	≤-11.65	PASS
			1000~26500	8.35	-47.88	≤-11.65	PASS
		2480	Reference	7.51	7.51	---	PASS
			30~1000	7.51	-60.51	≤-12.49	PASS
			1000~26500	7.51	-47.69	≤-12.49	PASS
2DH1	Ant1	2402	Reference	3.52	3.52	---	PASS
			30~1000	3.52	-60.8	≤-16.48	PASS
			1000~26500	3.52	-47.52	≤-16.48	PASS
		2441	Reference	4.68	4.68	---	PASS
			30~1000	4.68	-59.85	≤-15.32	PASS
			1000~26500	4.68	-47.36	≤-15.32	PASS
		2480	Reference	3.59	3.59	---	PASS
			30~1000	3.59	-59.83	≤-16.41	PASS
			1000~26500	3.59	-47.44	≤-16.41	PASS
3DH1	Ant1	2402	Reference	3.65	3.65	---	PASS
			30~1000	3.65	-60.33	≤-16.35	PASS
			1000~26500	3.65	-47.75	≤-16.35	PASS
		2441	Reference	4.49	4.49	---	PASS
			30~1000	4.49	-59.93	≤-15.51	PASS
			1000~26500	4.49	-47.45	≤-15.51	PASS
		2480	Reference	3.26	3.26	---	PASS
			30~1000	3.26	-58.04	≤-16.74	PASS
			1000~26500	3.26	-47.6	≤-16.74	PASS

Test Graphs

DH1_Ant1_2402_0~Reference



DH1_Ant1_2402_30~1000



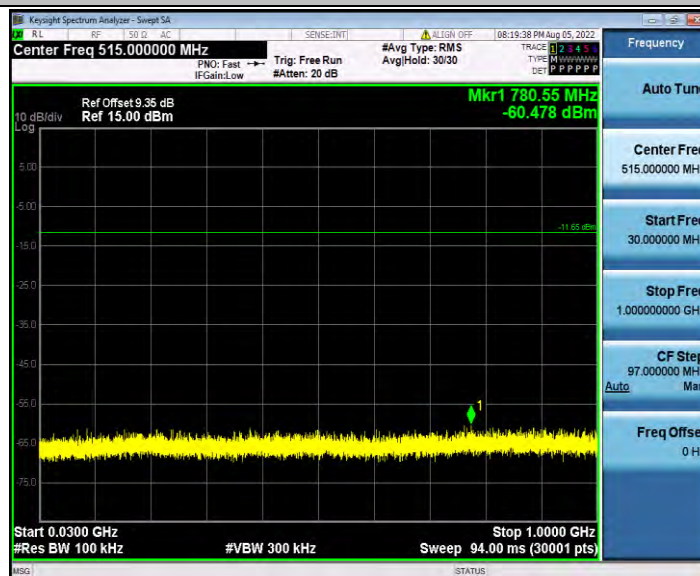
DH1_Ant1_2402_1000~26500



DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



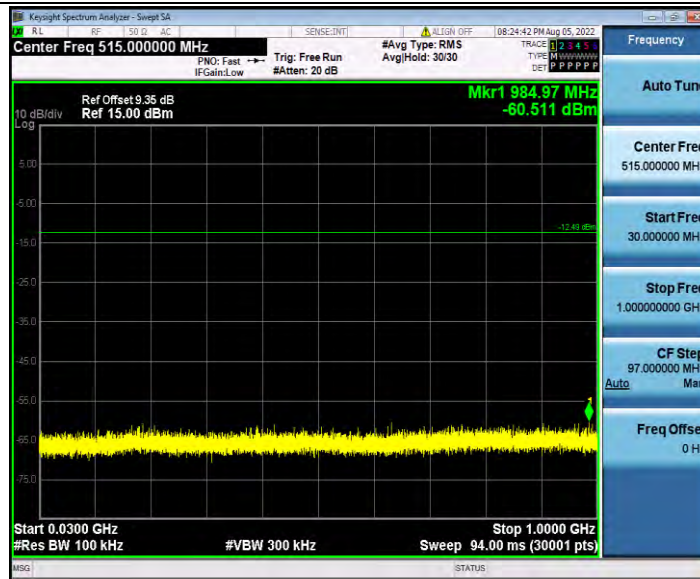
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000



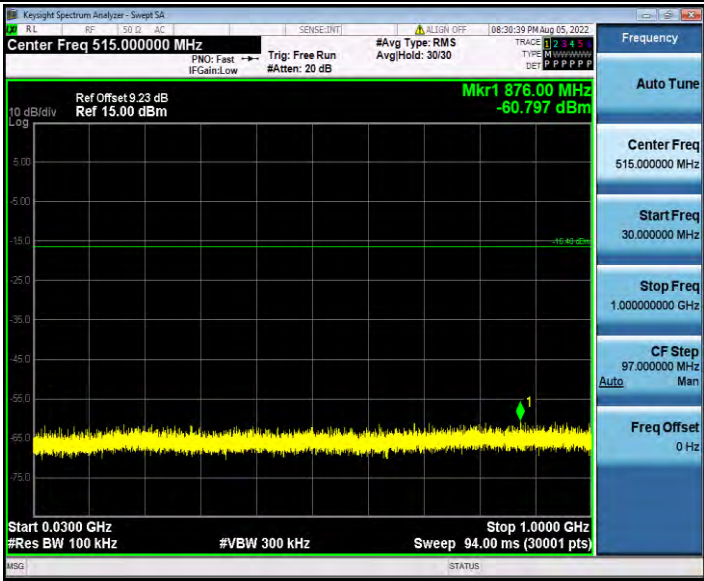
DH1_Ant1_2480_1000~26500



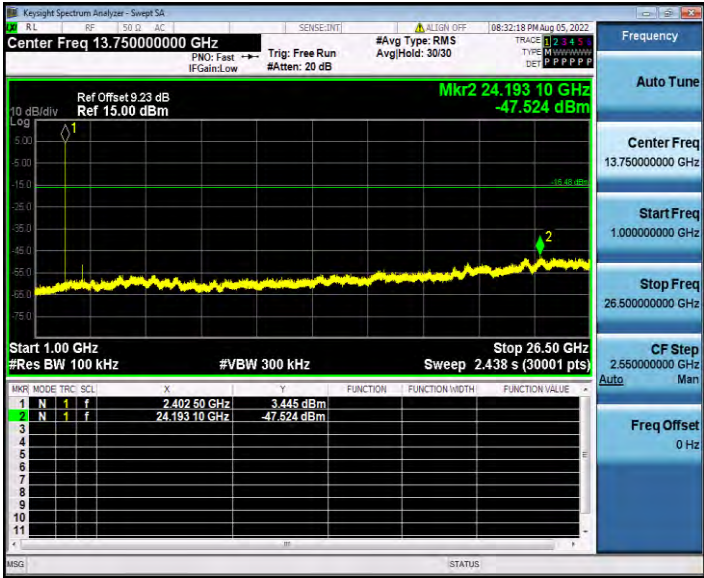
2DH1_Ant1_2402_0~Reference



2DH1_Ant1_2402_30~1000



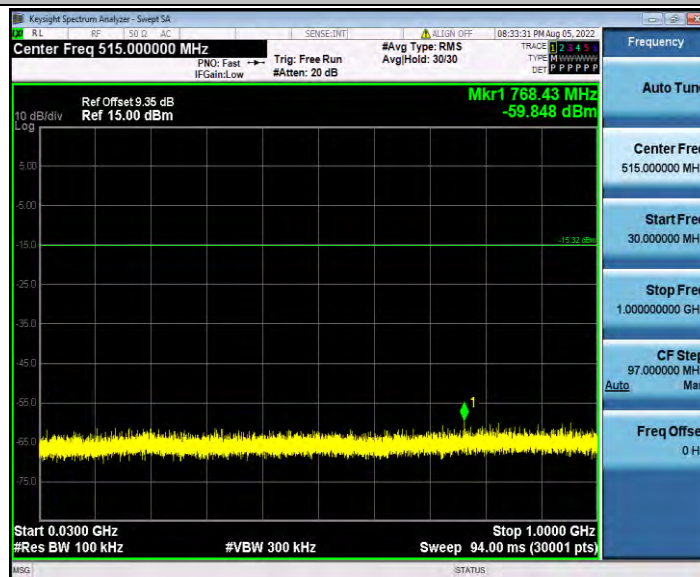
2DH1_Ant1_2402_1000~26500



2DH1_Ant1_2441_0~Reference



2DH1_Ant1_2441_30~1000



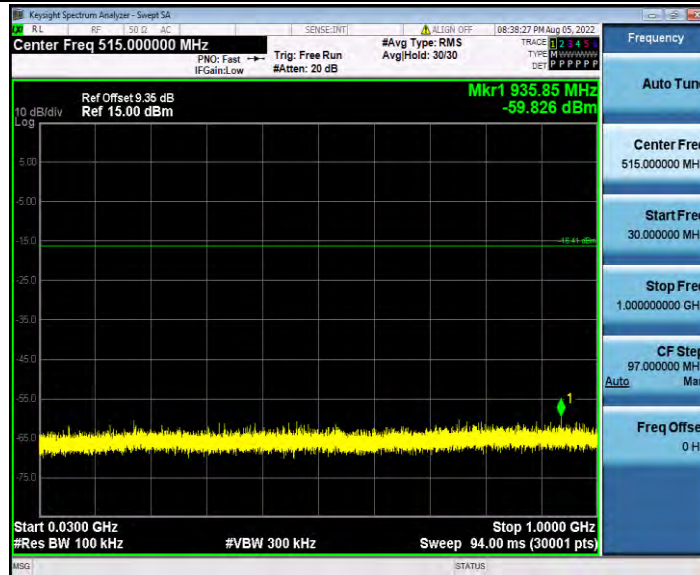
2DH1_Ant1_2441_1000~26500



2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



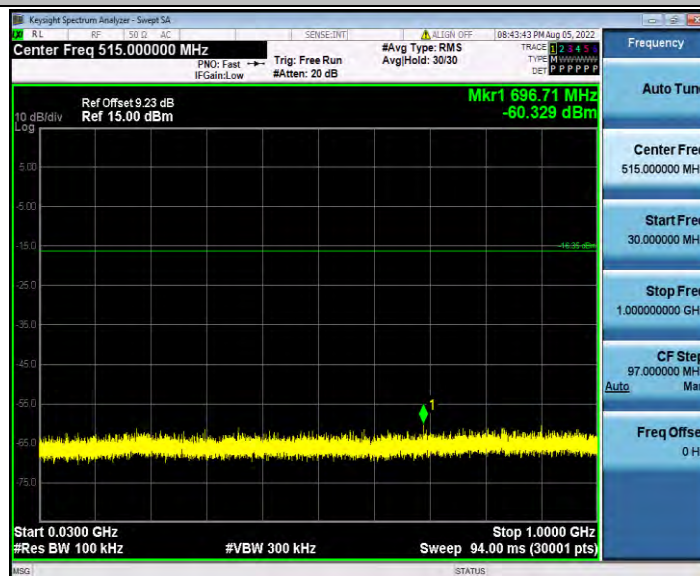
2DH1_Ant1_2480_1000~26500



3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



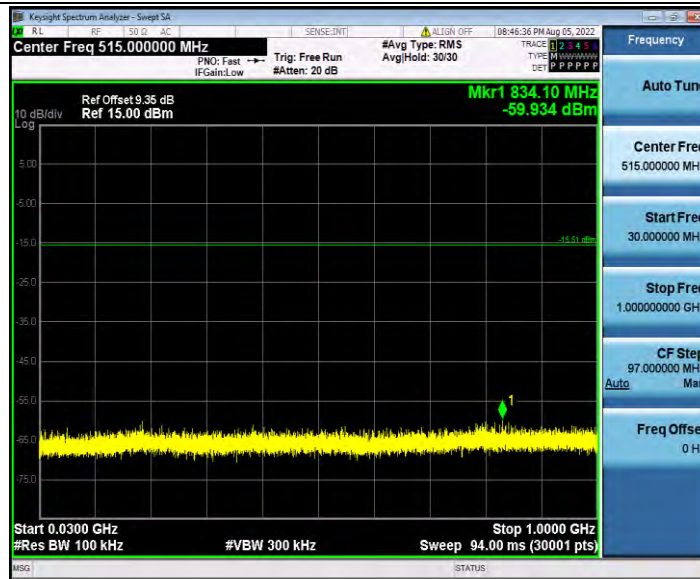
3DH1_Ant1_2402_1000~26500



3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000



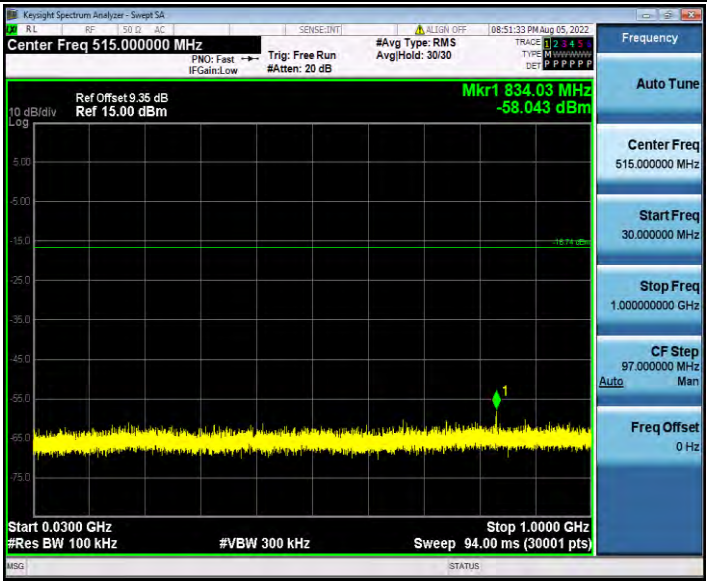
3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference



3DH1_Ant1_2480_30~1000



3DH1_Ant1_2480_1000~26500

