

Case No. : GTS20220830003-1-1	
Ambient Condition: 25 °C, 45 %RH, Atmos100.1Kpa,	
Test Date: 2022.8.31	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	1.035	2401.484	2402.519	---	---
		2441	1.032	2440.487	2441.519	---	---
		2480	1.035	2479.484	2480.519	---	---
2DH1	Ant1	2402	1.350	2401.316	2402.666	---	---
		2441	1.347	2440.319	2441.666	---	---
		2480	1.344	2479.316	2480.660	---	---
3DH1	Ant1	2402	1.293	2401.337	2402.630	---	---
		2441	1.296	2440.334	2441.630	---	---
		2480	1.293	2479.337	2480.630	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



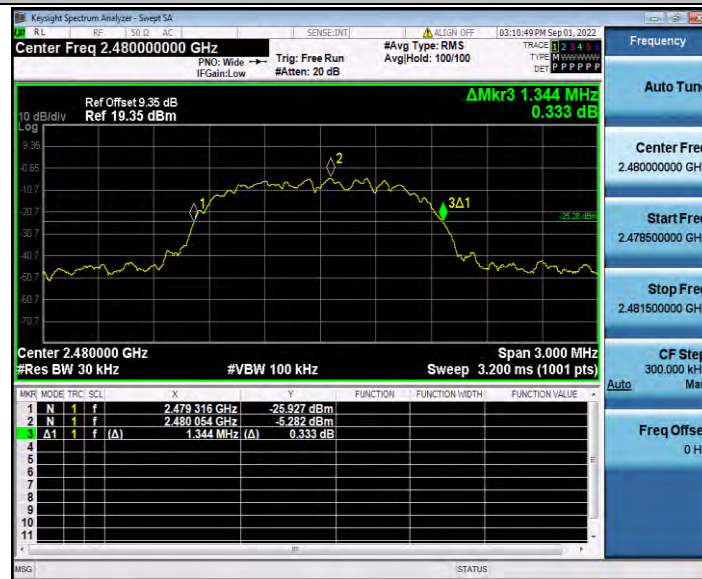
2DH1_Ant1_2402



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	0.91438	2401.526	2402.441	---	---
		2441	0.91419	2440.527	2441.441	---	---
		2480	0.91271	2479.525	2480.438	---	---
2DH1	Ant1	2402	1.1840	2401.398	2402.582	---	---
		2441	1.1827	2440.398	2441.581	---	---
		2480	1.1838	2479.397	2480.581	---	---
3DH1	Ant1	2402	1.1678	2401.409	2402.577	---	---
		2441	1.1669	2440.410	2441.577	---	---
		2480	1.1657	2479.410	2480.576	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



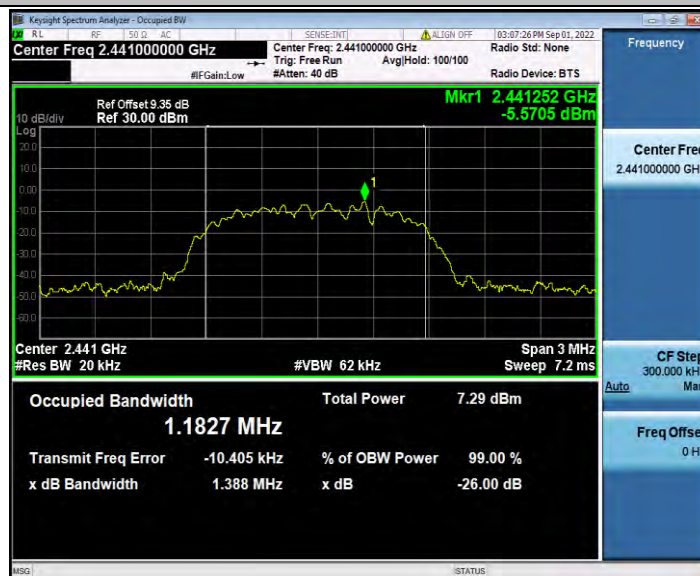
DH1_Ant1_2480



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	2.94	≤20.97	PASS
		2441	3.22	≤20.97	PASS
		2480	2.64	≤20.97	PASS
2DH1	Ant1	2402	4.75	≤20.97	PASS
		2441	5.07	≤20.97	PASS
		2480	4.54	≤20.97	PASS
3DH1	Ant1	2402	4.98	≤20.97	PASS
		2441	5.35	≤20.97	PASS
		2480	4.79	≤20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.994	≥ 0.690	PASS
		Hop_2441	0.994	≥ 0.690	PASS
		Hop_2480	1.332	≥ 0.690	PASS
2DH1	Ant1	Hop_2402	0.998	≥ 0.900	PASS
		Hop_2441	1.012	≥ 0.900	PASS
		Hop_2480	1.324	≥ 0.900	PASS
3DH1	Ant1	Hop_2402	1.002	≥ 0.864	PASS
		Hop_2441	0.996	≥ 0.864	PASS
		Hop_2480	1.014	≥ 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



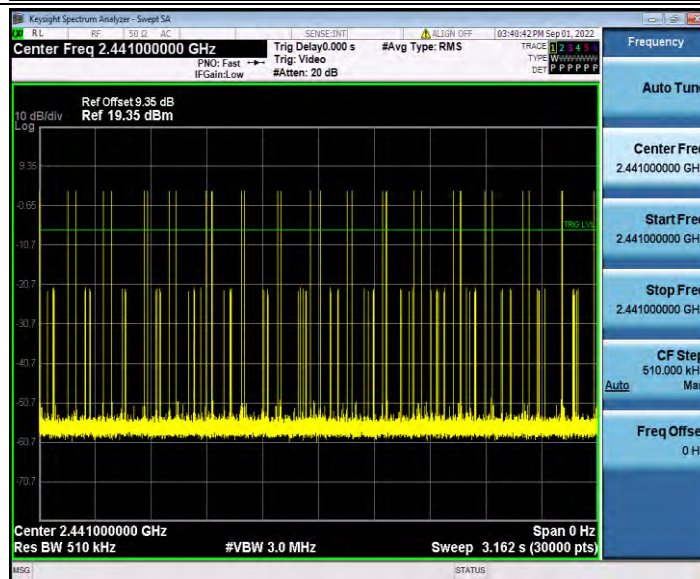
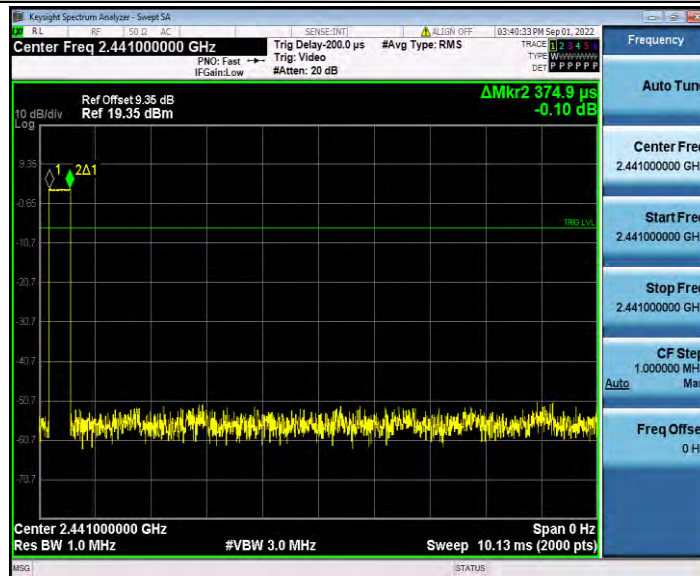
Appendix A.5: Time of occupancy

Test Result

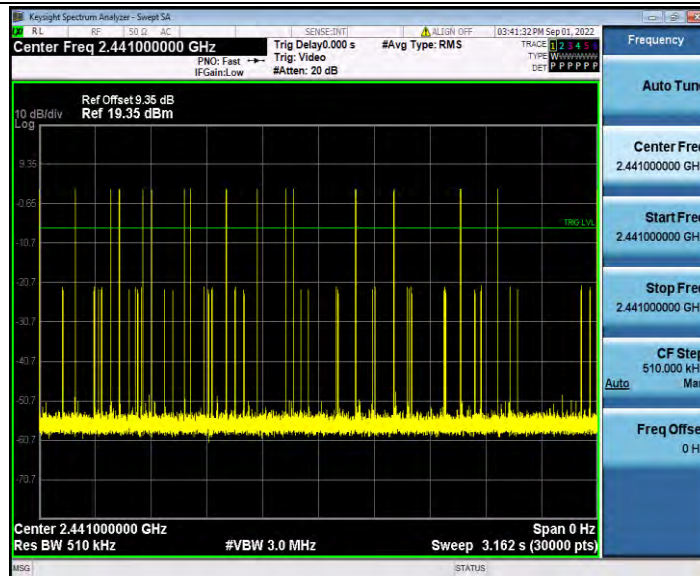
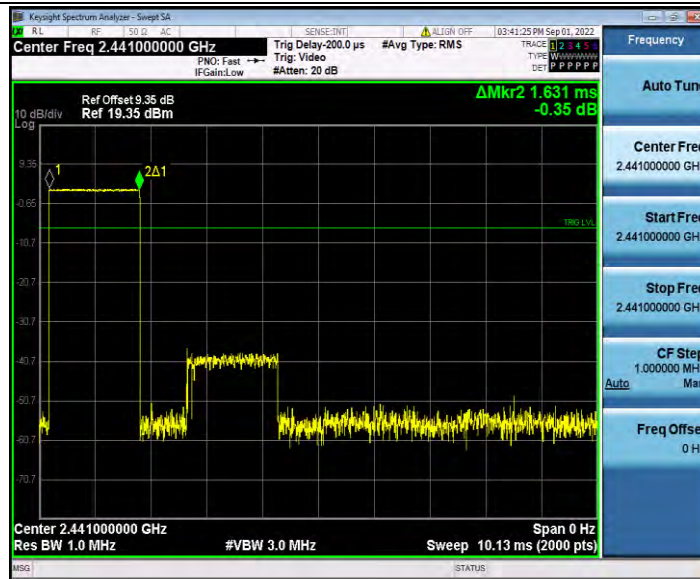
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	320	0.12	≤0.4	PASS
DH3	Ant1	Hop	1.63	170	0.277	≤0.4	PASS
DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS
2DH1	Ant1	Hop	0.38	320	0.122	≤0.4	PASS
2DH3	Ant1	Hop	1.63	180	0.294	≤0.4	PASS
2DH5	Ant1	Hop	2.88	110	0.317	≤0.4	PASS
3DH1	Ant1	Hop	0.38	330	0.125	≤0.4	PASS
3DH3	Ant1	Hop	1.63	210	0.343	≤0.4	PASS
3DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS

Test Graphs

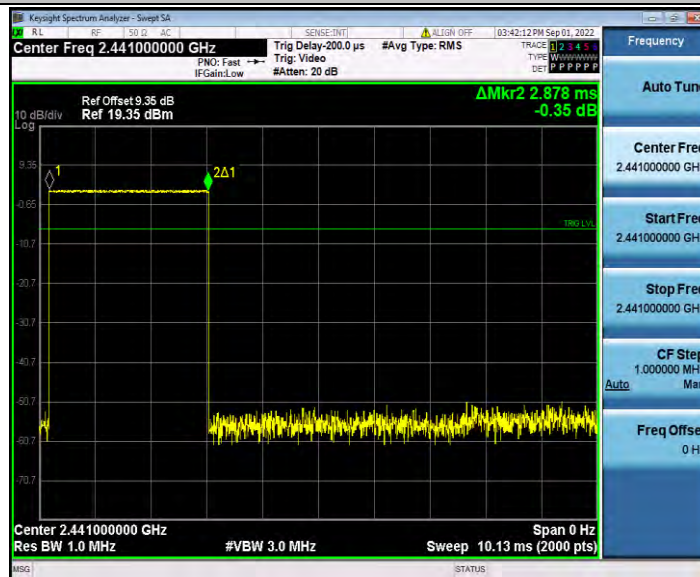
DH1_Ant1_Hop

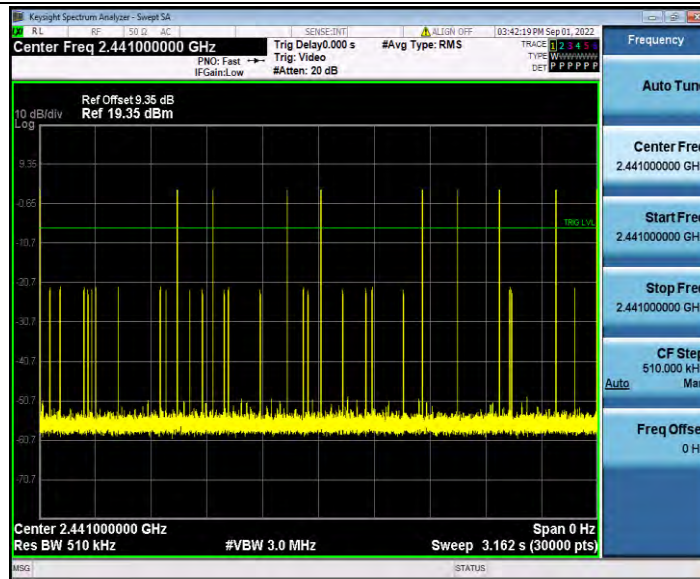


DH3_Ant1_Hop

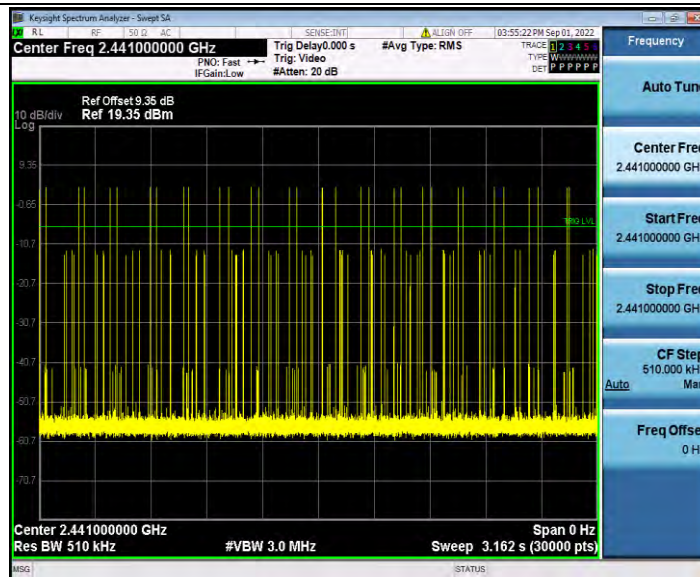
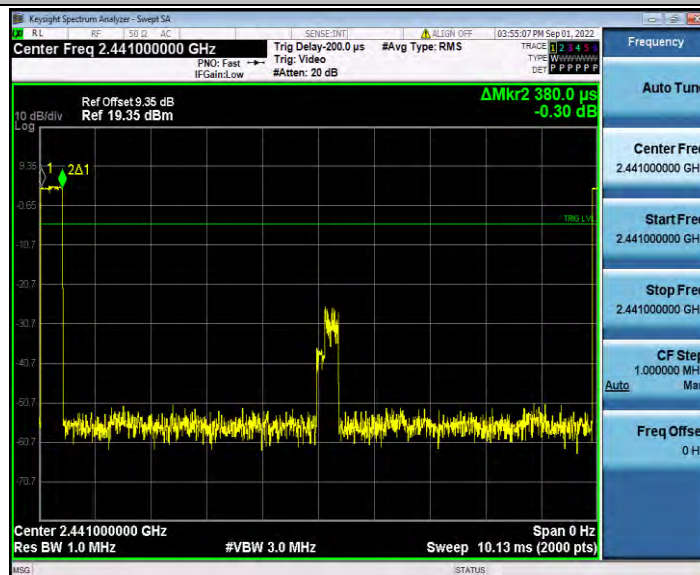


DH5_Ant1_Hop

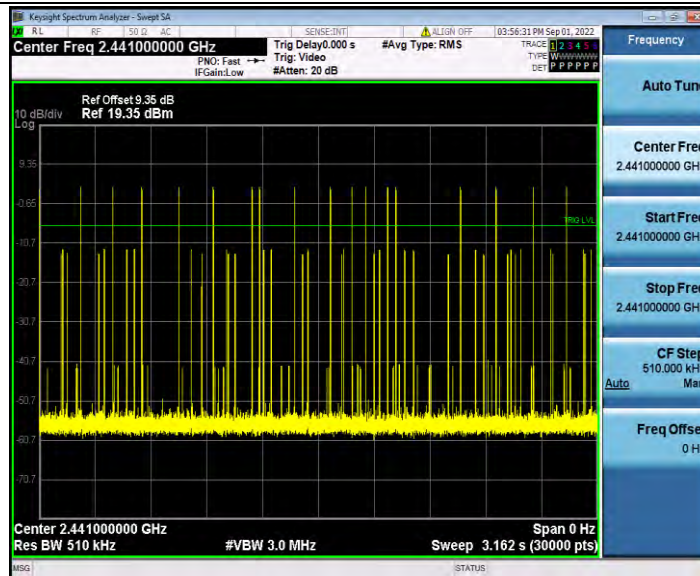
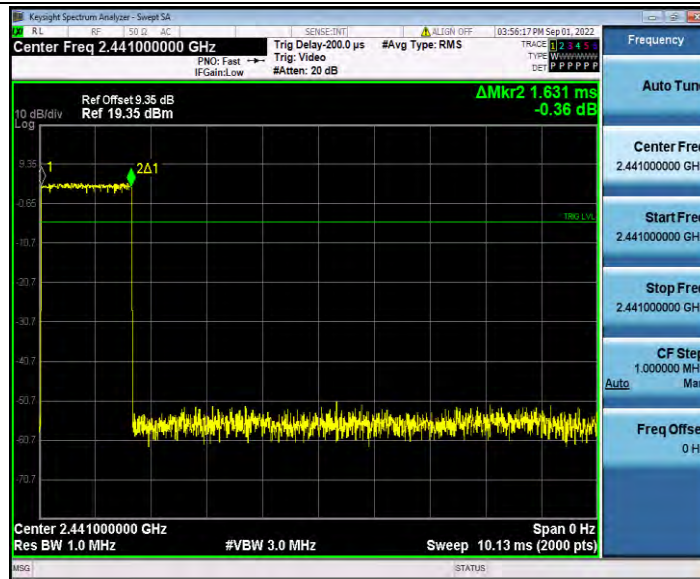




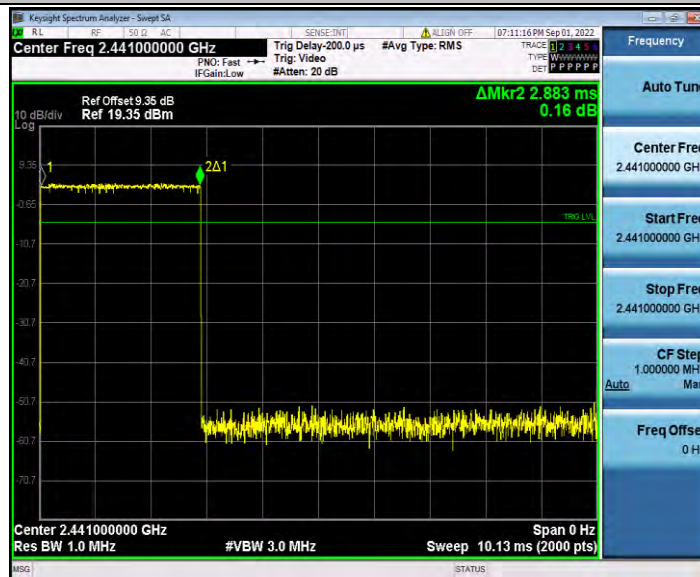
2DH1_Ant1_Hop

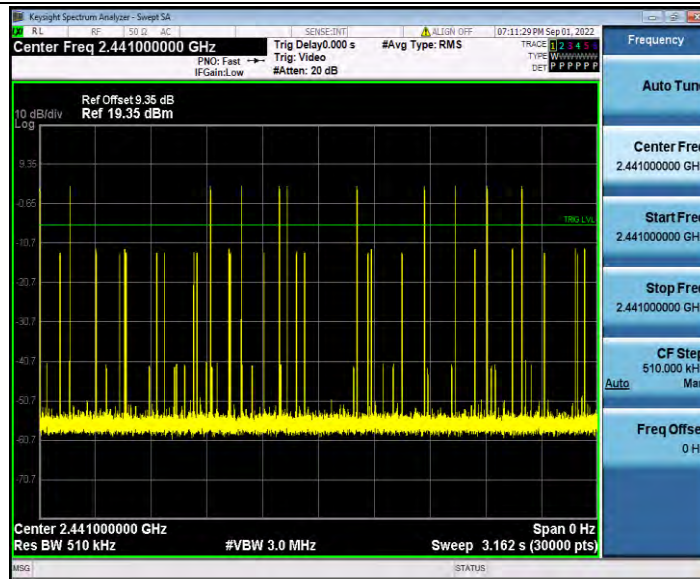


2DH3_Ant1_Hop

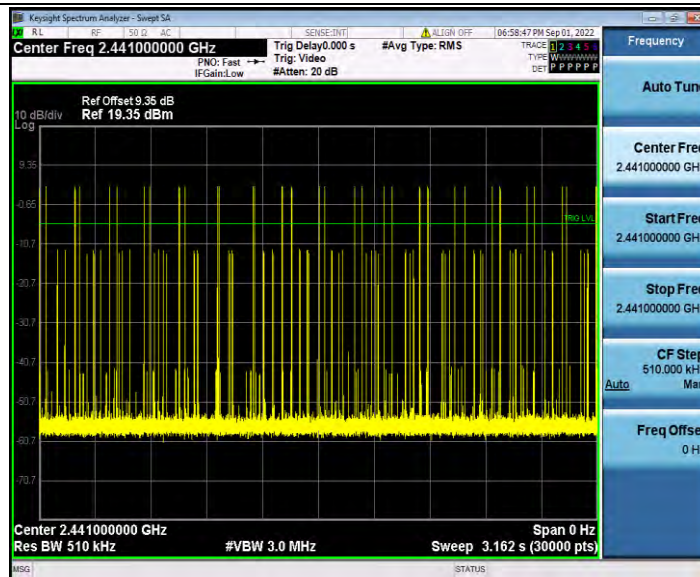
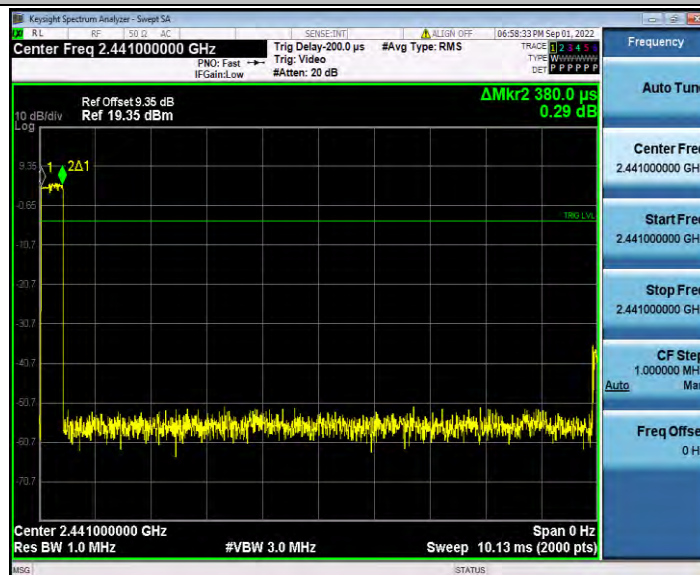


2DH5_Ant1_Hop

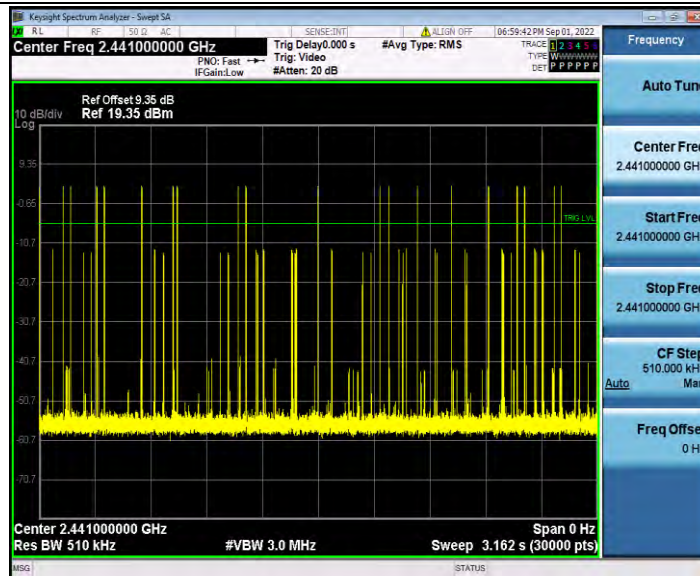
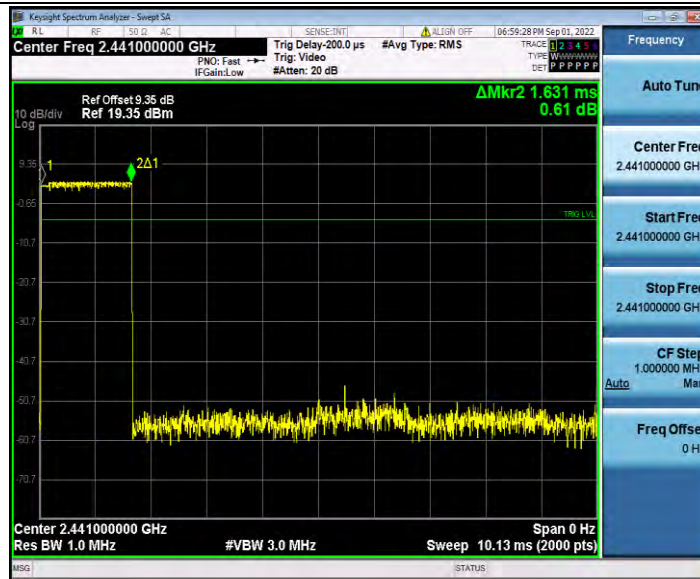




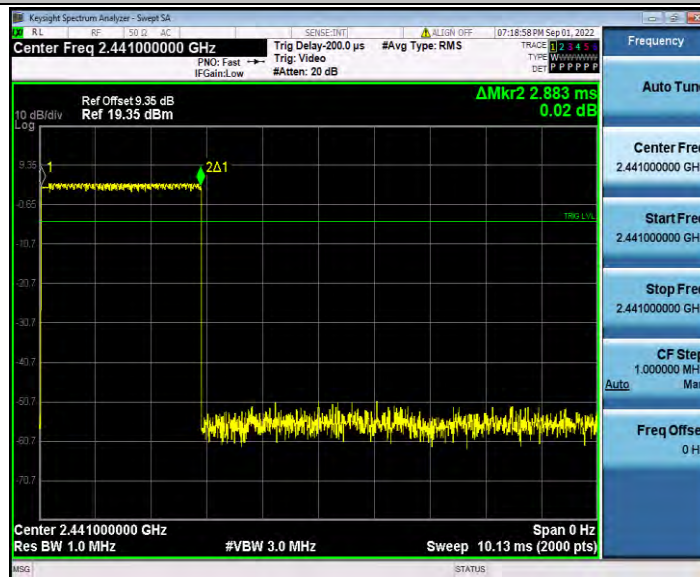
3DH1_Ant1_Hop

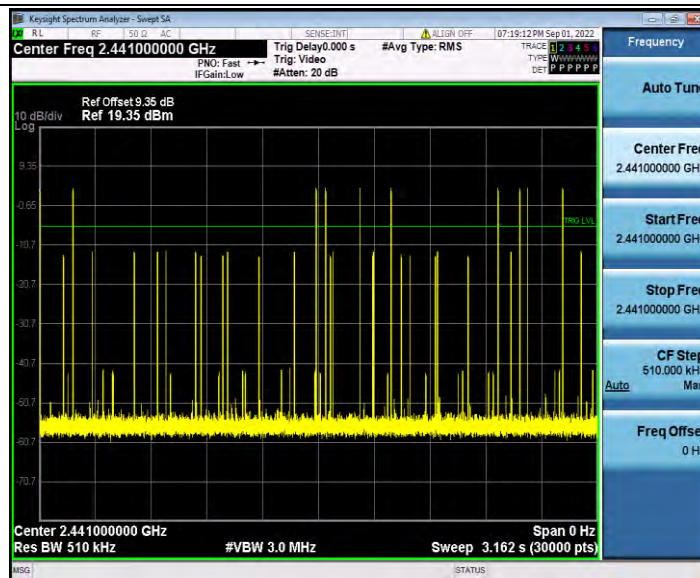


3DH3_Ant1_Hop



3DH5_Ant1_Hop





Appendix A.6: Number of hopping channels

Test Result

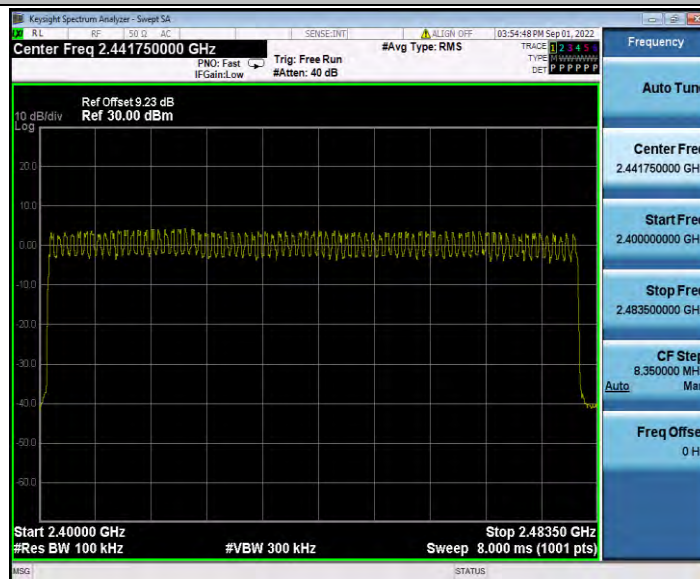
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Hop	79	≥15	PASS
2DH1	Ant1	Hop	79	≥15	PASS
3DH1	Ant1	Hop	79	≥15	PASS

Test Graphs

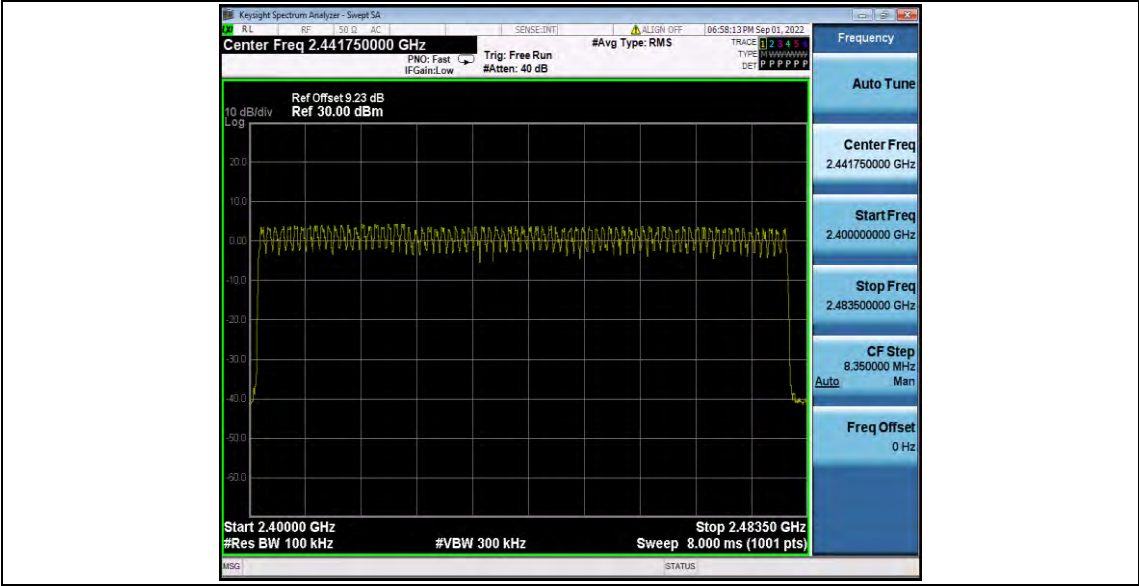
DH1_Ant1_Hop



2DH1_Ant1_Hop



3DH1_Ant1_Hop



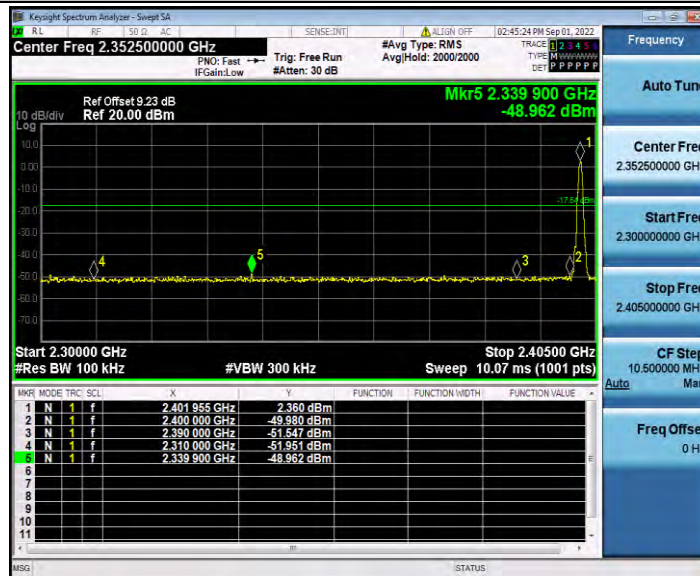
Appendix A.7: Band edge measurements

Test Result

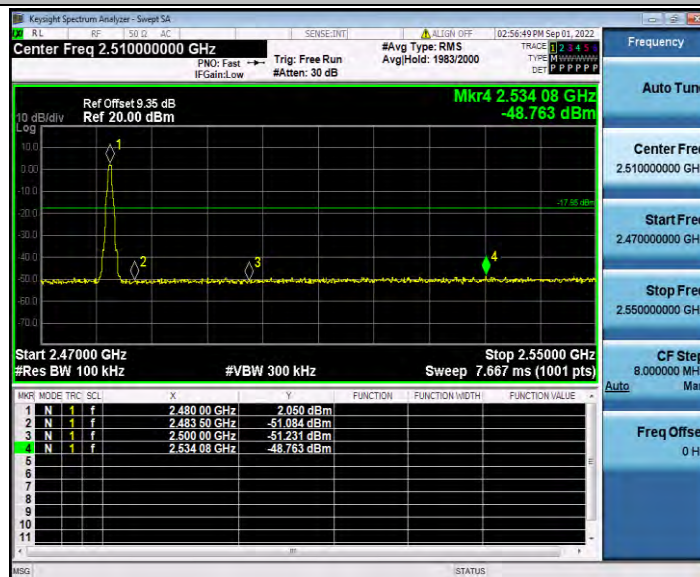
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	2.36	-48.96	≤-17.64	PASS
		High	2480	2.05	-48.76	≤-17.95	PASS
		Low	Hop_2402	2.19	-49.27	≤-17.81	PASS
		High	Hop_2480	2.17	-48.42	≤-17.83	PASS
2DH1	Ant1	Low	2402	0.00	-48.96	≤-20	PASS
		High	2480	-0.32	-48.71	≤-20.32	PASS
		Low	Hop_2402	2.46	-48.75	≤-17.54	PASS
		High	Hop_2480	3.04	-48.31	≤-16.96	PASS
3DH1	Ant1	Low	2402	0.22	-47.89	≤-19.78	PASS
		High	2480	-0.13	-48.62	≤-20.13	PASS
		Low	Hop_2402	3.31	-49.68	≤-16.69	PASS
		High	Hop_2480	3.40	-48.95	≤-16.6	PASS

Test Graphs

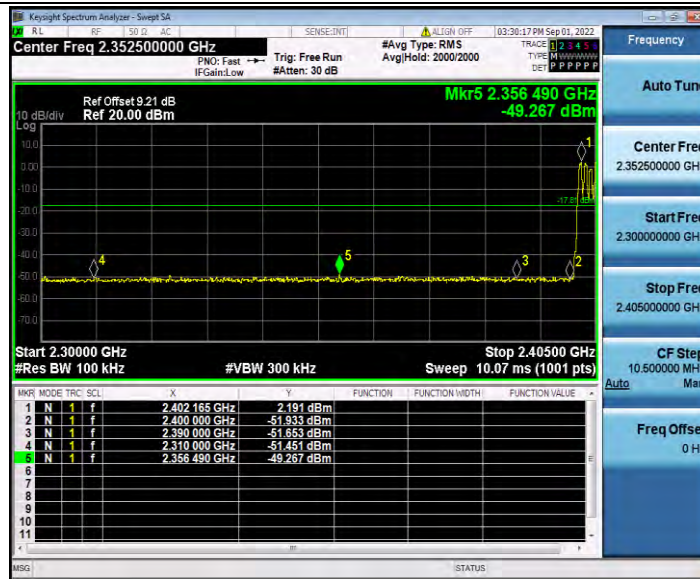
DH1_Ant1_Low_2402



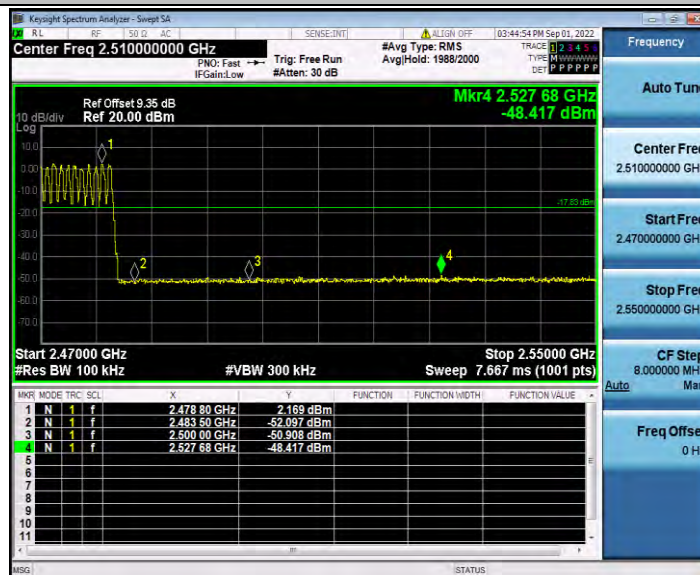
DH1_Ant1_High_2480



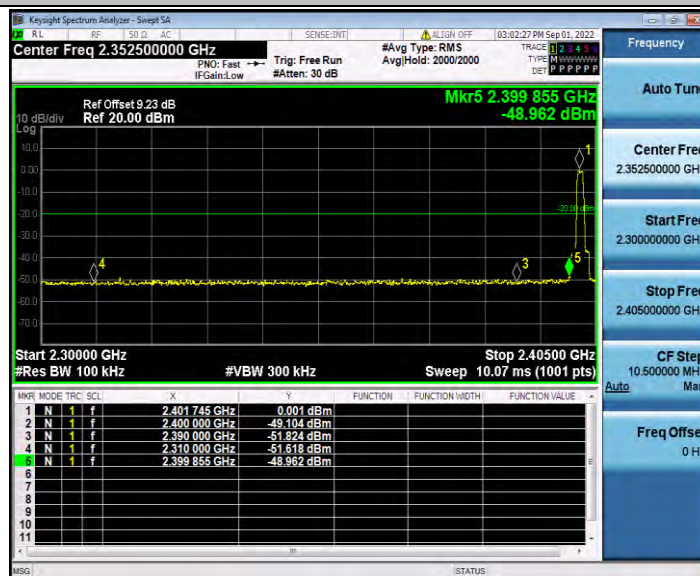
DH1_Ant1_Low_Hop_2402



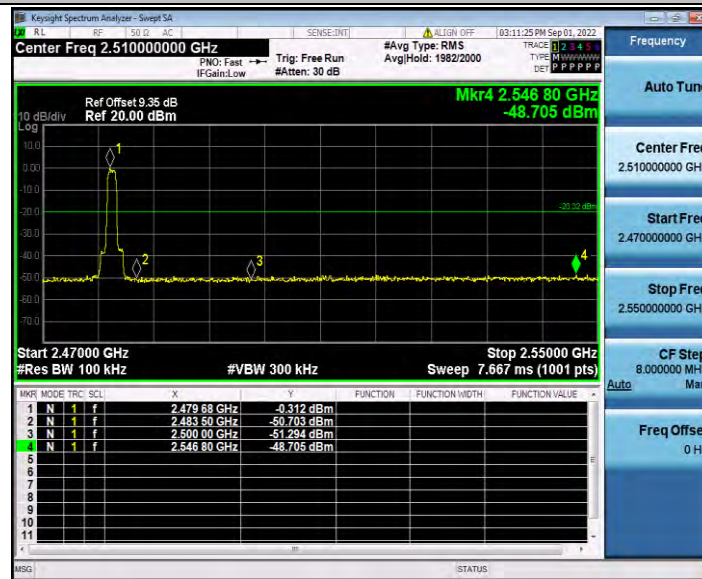
DH1_Ant1_High_Hop_2480



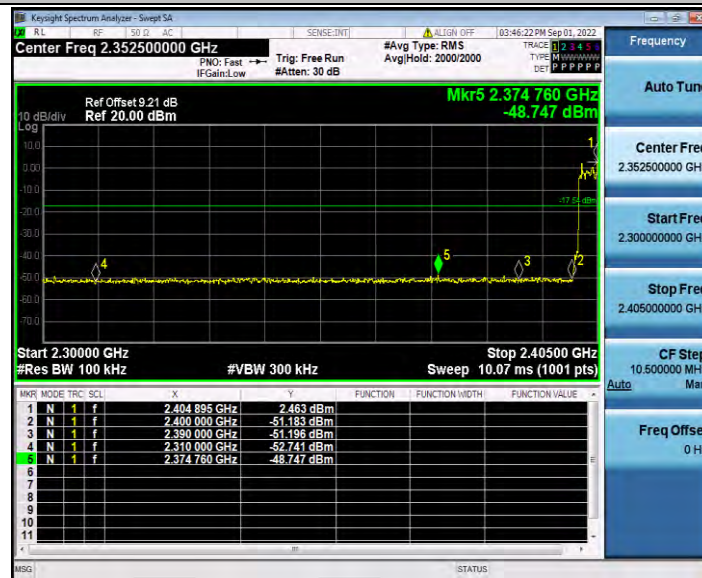
2DH1_Ant1_Low_2402



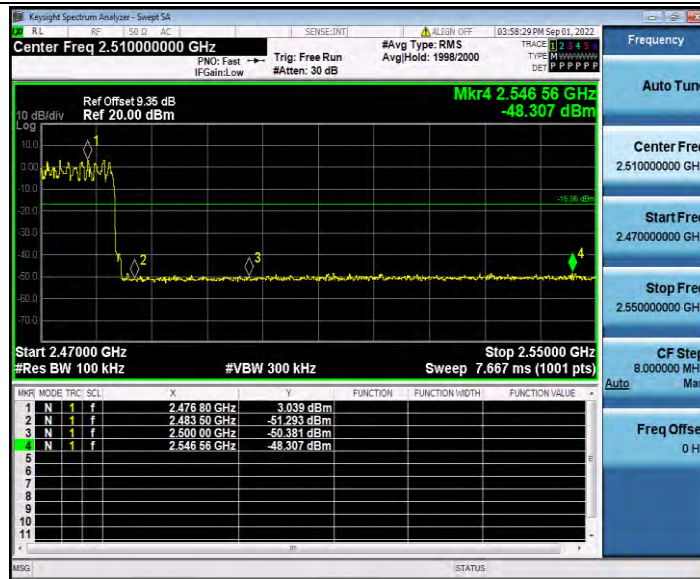
2DH1_Ant1_High_2480



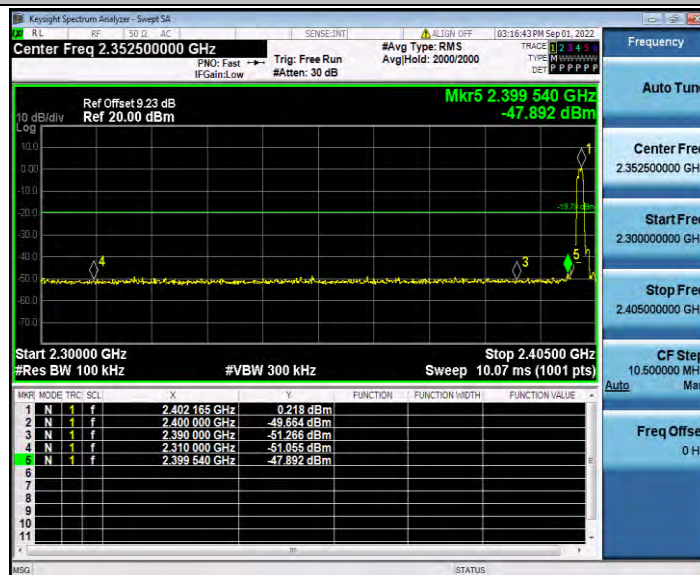
2DH1_Ant1_Low_Hop_2402



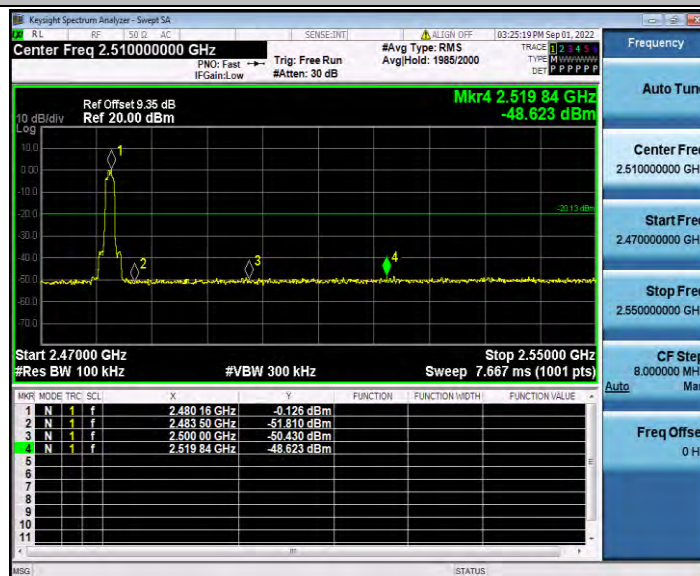
2DH1_Ant1_High_Hop_2480



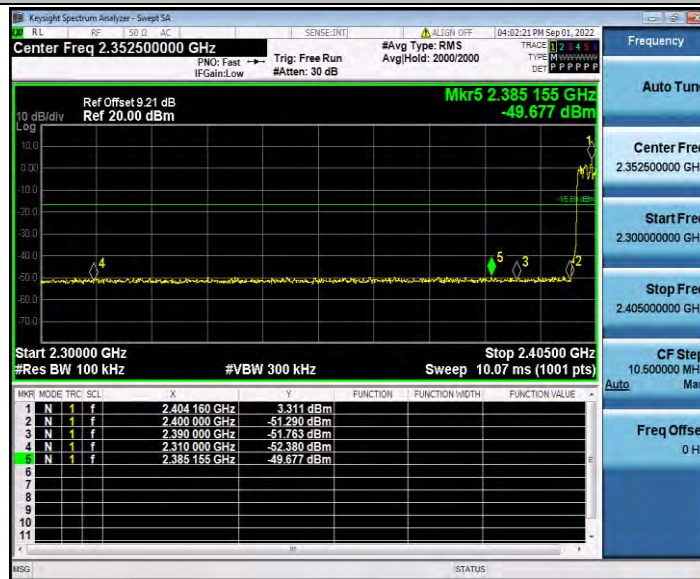
3DH1_Ant1_Low_2402



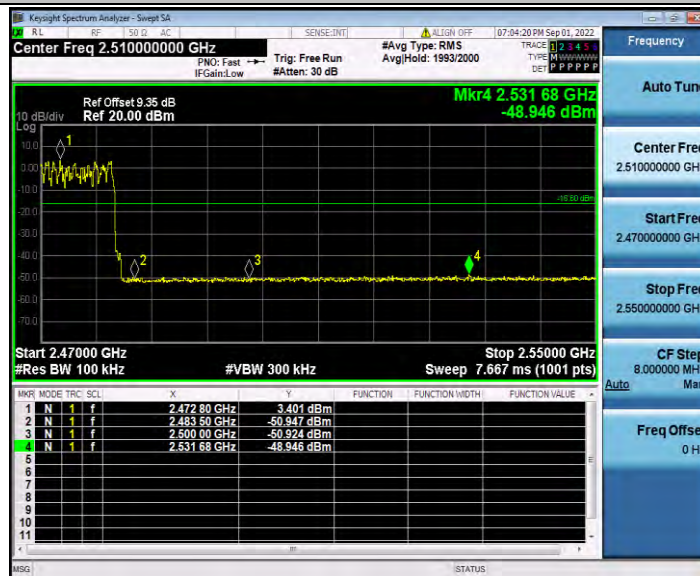
3DH1_Ant1_High_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480



Appendix A.8: Conducted Spurious Emission

Test Result

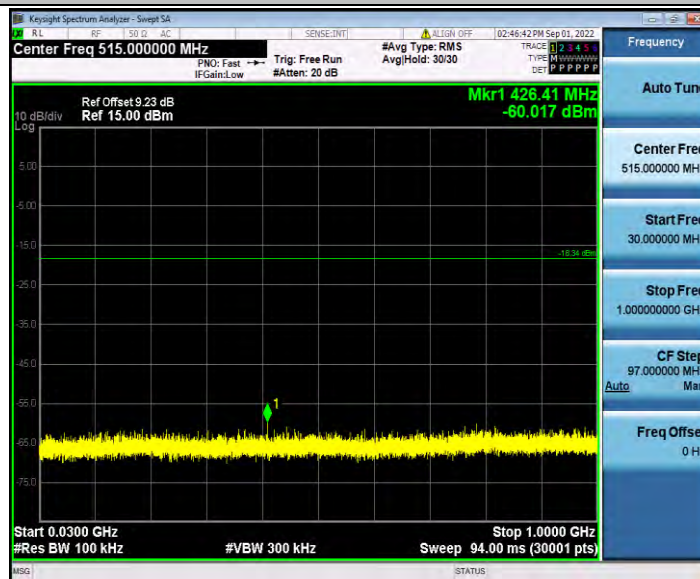
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	1.66	1.66	---	PASS
			30~1000	1.66	-60.02	≤-18.34	PASS
			1000~26500	1.66	-47.14	≤-18.34	PASS
		2441	Reference	1.94	1.94	---	PASS
			30~1000	1.94	-60.12	≤-18.06	PASS
			1000~26500	1.94	-47.69	≤-18.06	PASS
		2480	Reference	1.41	1.41	---	PASS
			30~1000	1.41	-59.2	≤-18.59	PASS
			1000~26500	1.41	-47.72	≤-18.59	PASS
2DH1	Ant1	2402	Reference	-0.24	-0.24	---	PASS
			30~1000	-0.24	-60.34	≤-20.24	PASS
			1000~26500	-0.24	-47.31	≤-20.24	PASS
		2441	Reference	0.03	0.03	---	PASS
			30~1000	0.03	-52.46	≤-19.97	PASS
			1000~26500	0.03	-46.8	≤-19.97	PASS
		2480	Reference	-0.54	-0.54	---	PASS
			30~1000	-0.54	-60.39	≤-20.54	PASS
			1000~26500	-0.54	-47.33	≤-20.54	PASS
3DH1	Ant1	2402	Reference	-0.26	-0.26	---	PASS
			30~1000	-0.26	-60.39	≤-20.26	PASS
			1000~26500	-0.26	-47.82	≤-20.26	PASS
		2441	Reference	0.10	0.10	---	PASS
			30~1000	0.10	-60.19	≤-19.9	PASS
			1000~26500	0.10	-47.75	≤-19.9	PASS
		2480	Reference	-0.55	-0.55	---	PASS
			30~1000	-0.55	-60.83	≤-20.55	PASS
			1000~26500	-0.55	-47.39	≤-20.55	PASS

Test Graphs

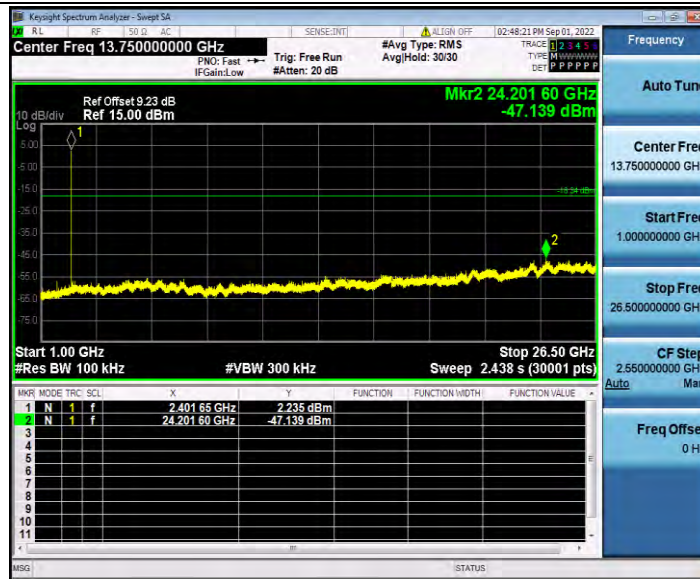
DH1_Ant1_2402_0~Reference



DH1_Ant1_2402_30~1000



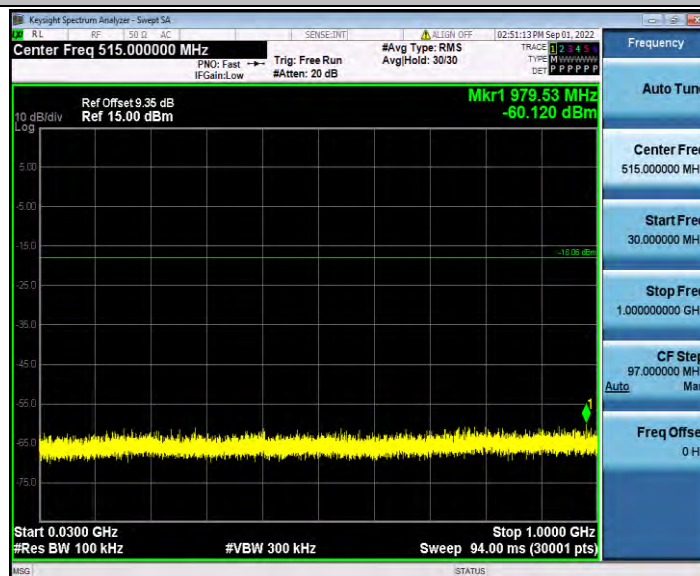
DH1_Ant1_2402_1000~26500



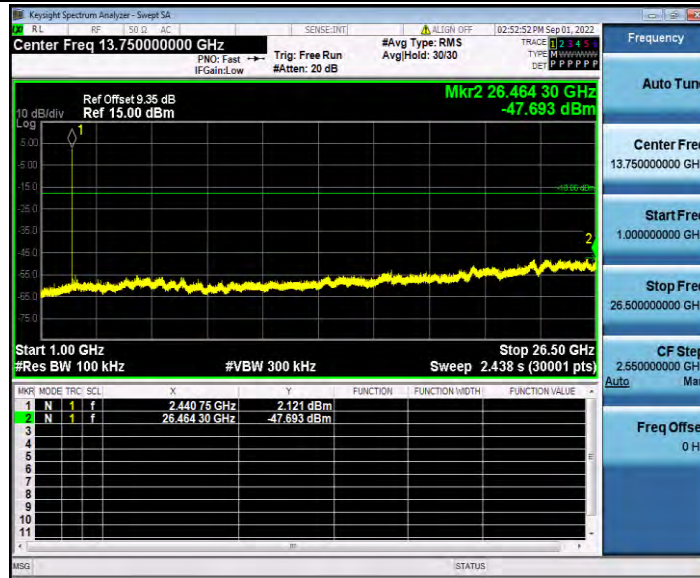
DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



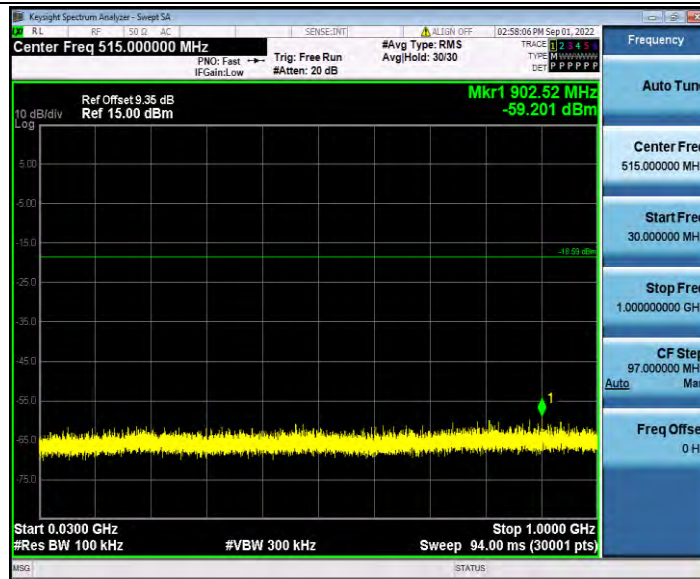
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000



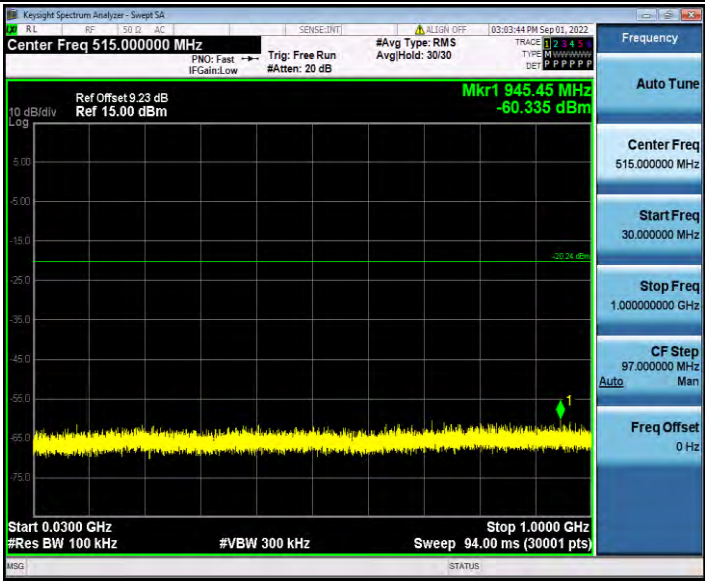
DH1_Ant1_2480_1000~26500



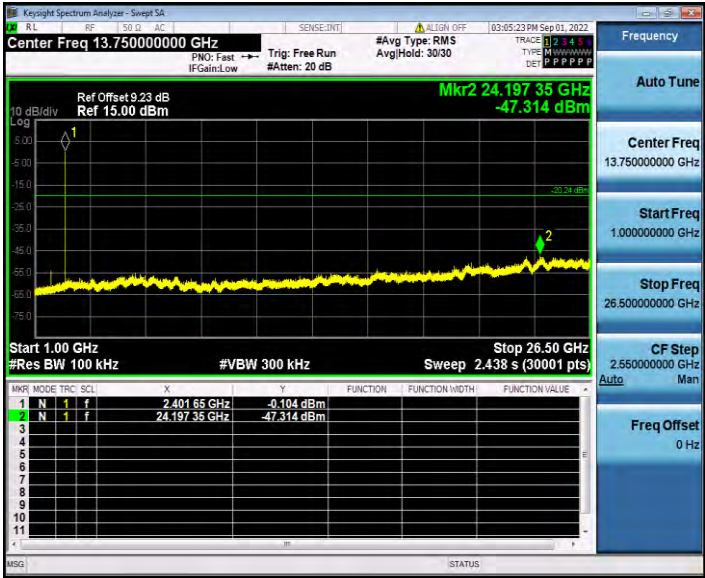
2DH1_Ant1_2402_0~Reference



2DH1_Ant1_2402_30~1000



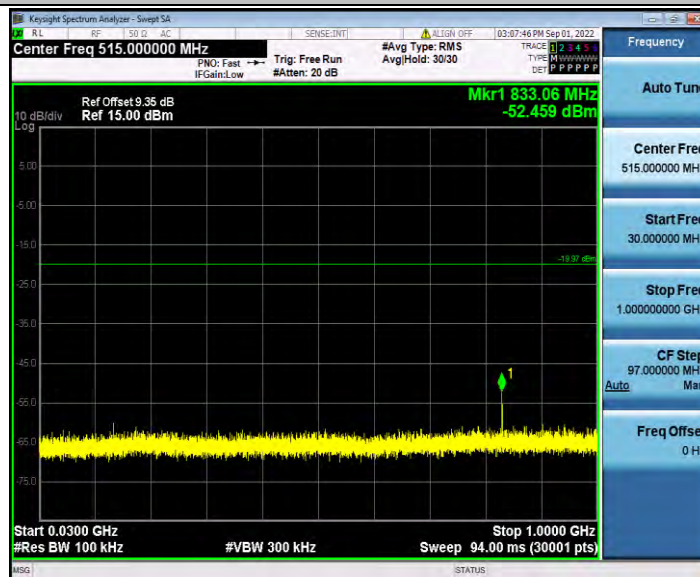
2DH1_Ant1_2402_1000~26500



2DH1_Ant1_2441_0~Reference



2DH1_Ant1_2441_30~1000



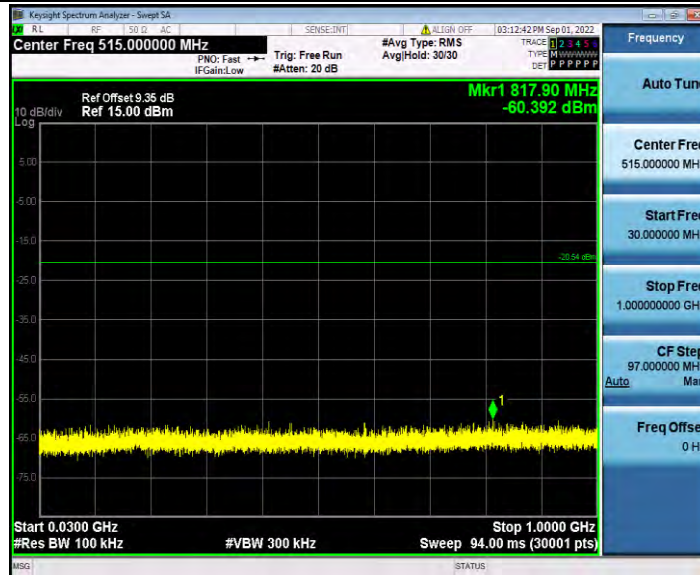
2DH1_Ant1_2441_1000~26500



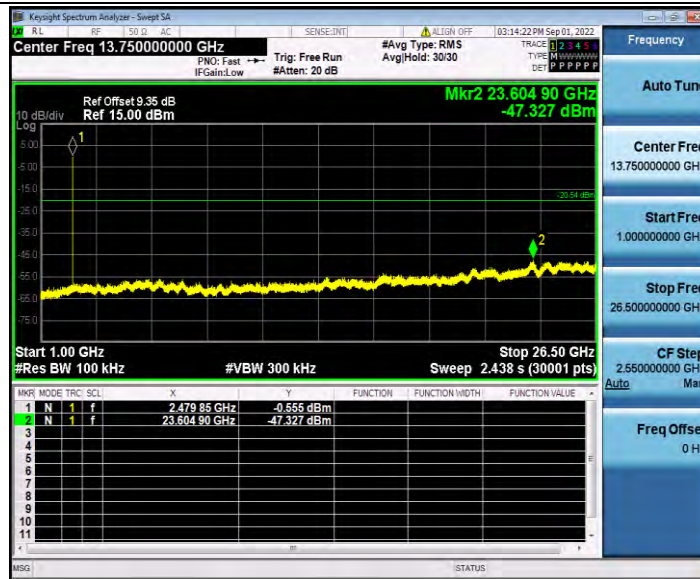
2DH1_Ant1_2480_0~Reference



2DH1_Ant1_2480_30~1000



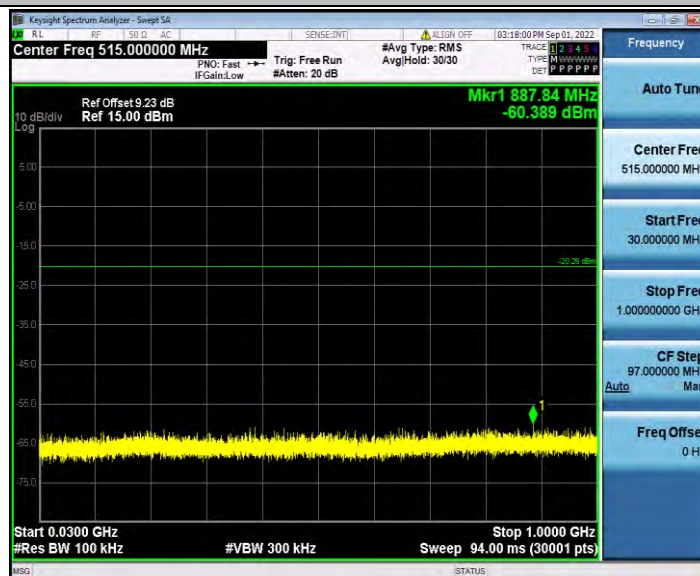
2DH1_Ant1_2480_1000~26500



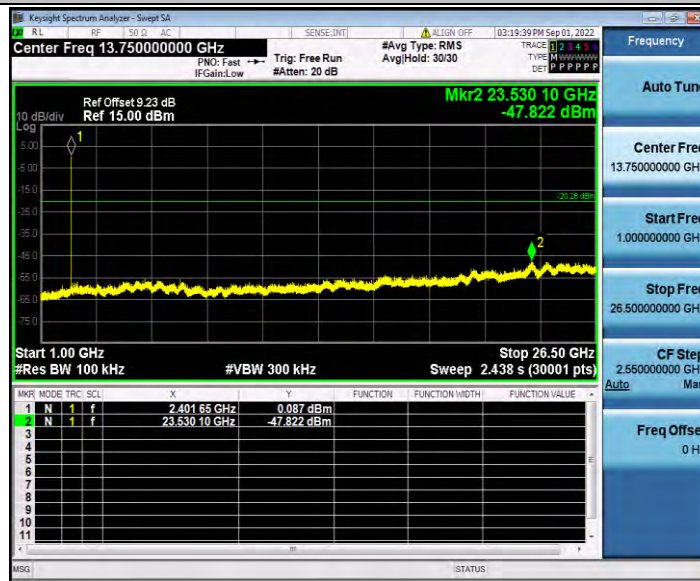
3DH1_Ant1_2402_0~Reference



3DH1_Ant1_2402_30~1000



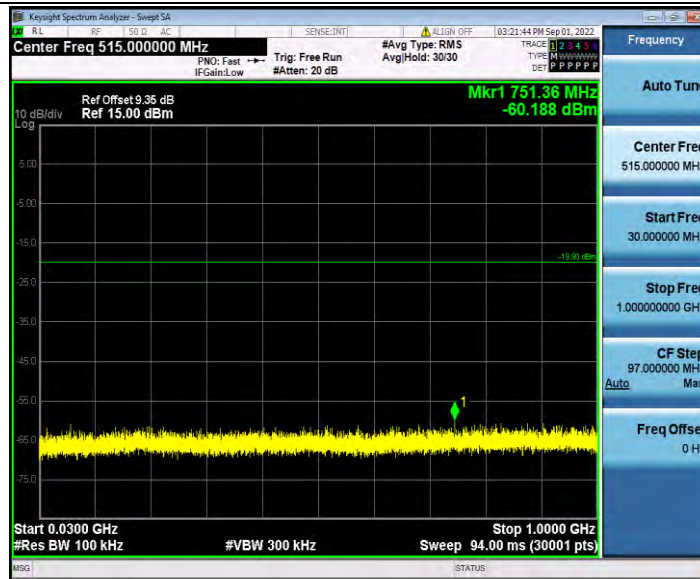
3DH1_Ant1_2402_1000~26500



3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000



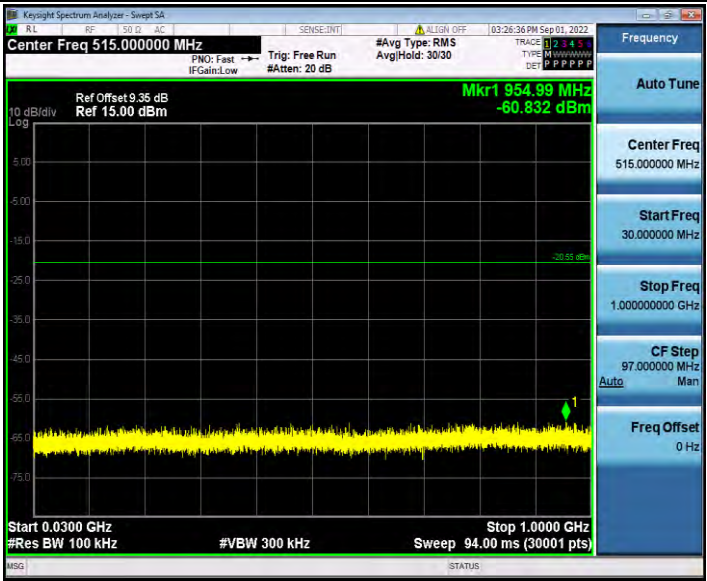
3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference



3DH1_Ant1_2480_30~1000



3DH1_Ant1_2480_1000~26500

