

Case No. : <u>GTS20220107010-1-1</u>	
Ambient Condition: <u>25</u> °C, <u>45</u> %RH,	
Test Date: <u>2022.4.27</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	0.765	2401.607	2402.372	---	---
		2441	0.840	2440.565	2441.405	---	---
		2480	0.801	2479.598	2480.399	---	---
2DH1	Ant1	2402	1.230	2401.388	2402.618	---	---
		2441	1.248	2440.370	2441.618	---	---
		2480	1.257	2479.364	2480.621	---	---
3DH1	Ant1	2402	1.218	2401.403	2402.621	---	---
		2441	1.248	2440.370	2441.618	---	---
		2480	1.248	2479.376	2480.624	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



2D H1_Ant1_2402



2D H1_Ant1_2441



2DH1_Ant1_2480



3DH1_Ant1_2402



3DH1_Ant1_2441



3DH1_Ant1_2480



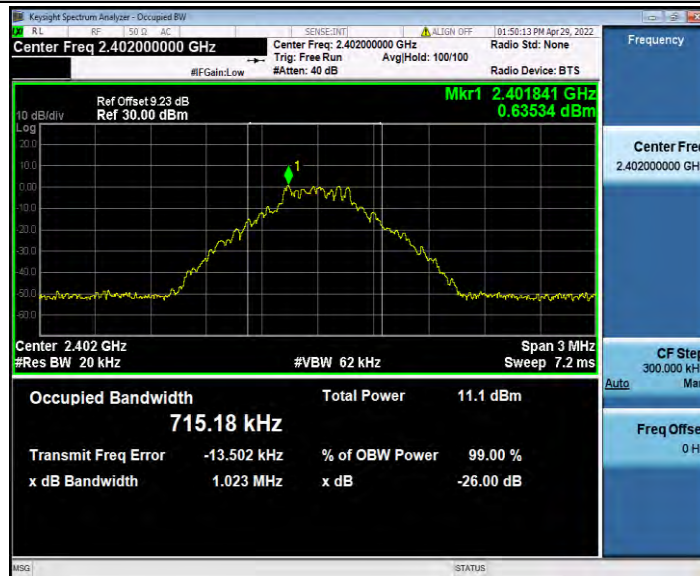
Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.71518	2401.629	2402.344	---	---
		2441	0.71731	2440.631	2441.348	---	---
		2480	0.73104	2479.629	2480.360	---	---
2DH1	Ant1	2402	1.1359	2401.428	2402.564	---	---
		2441	1.1384	2440.421	2441.559	---	---
		2480	1.1545	2479.418	2480.572	---	---
3DH1	Ant1	2402	1.1264	2401.438	2402.564	---	---
		2441	1.1480	2440.434	2441.582	---	---
		2480	1.1503	2479.433	2480.584	---	---

Test Graphs

DH1_Ant1_2402



DH1_Ant1_2441



DH1_Ant1_2480



2DH1_Ant1_2402



2DH1_Ant1_2441



2DH1_Ant1_2480



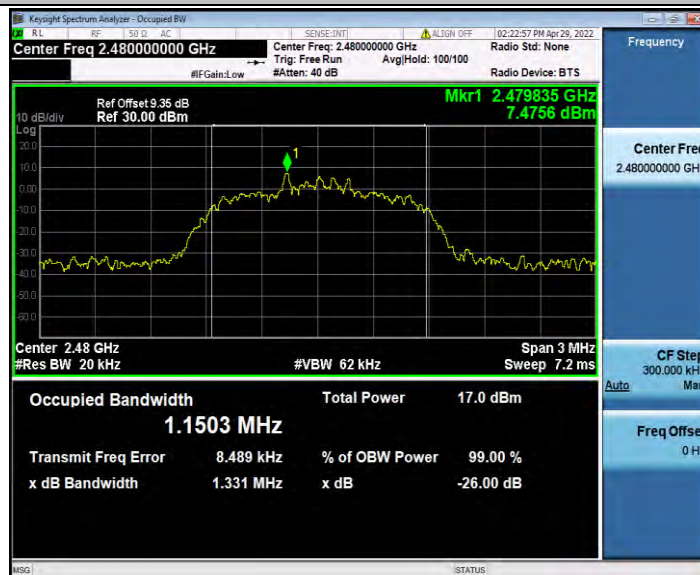
3DH1_Ant1_2402



3DH1_Ant1_2441



3DH1_Ant1_2480



Appendix A.3: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	1.134	≥ 0.840	PASS
		Hop_2441	0.990	≥ 0.840	PASS
		Hop_2480	0.994	≥ 0.840	PASS
2DH1	Ant1	Hop_2402	1.004	≥ 0.838	PASS
		Hop_2441	0.994	≥ 0.838	PASS
		Hop_2480	1.008	≥ 0.838	PASS
3DH1	Ant1	Hop_2402	0.998	≥ 0.832	PASS
		Hop_2441	0.836	≥ 0.832	PASS
		Hop_2480	0.838	≥ 0.832	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



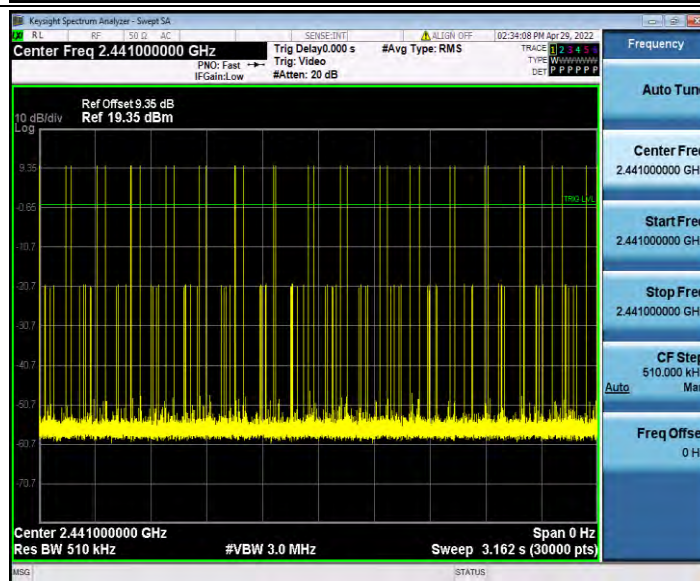
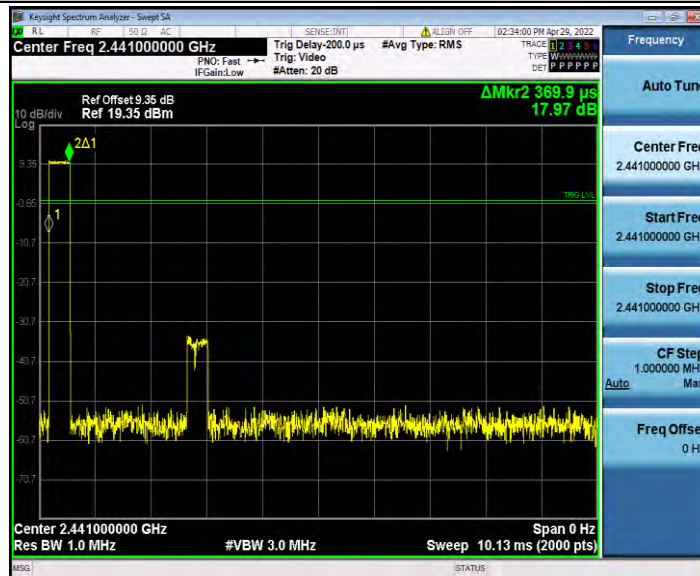
Appendix A.4: Time of occupancy

Test Result

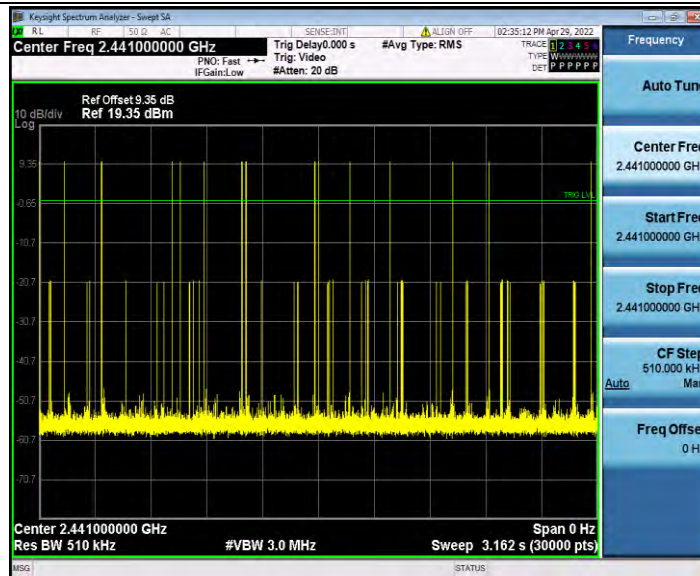
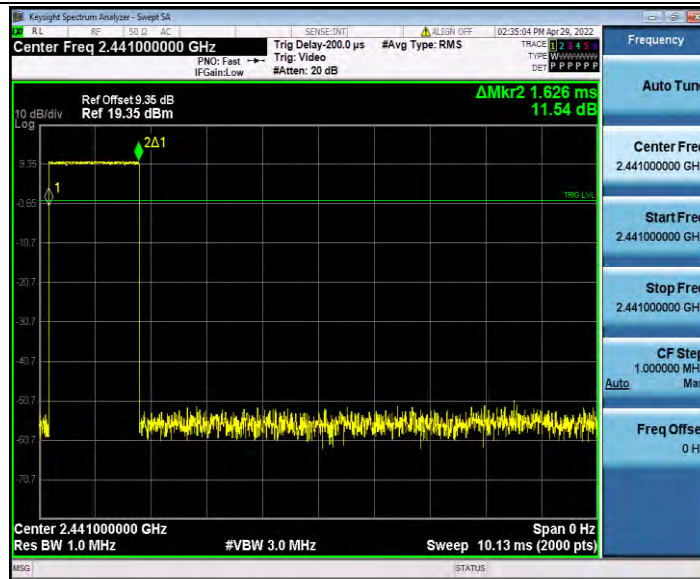
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	330	0.122	≤0.4	PASS
DH3	Ant1	Hop	1.63	150	0.244	≤0.4	PASS
DH5	Ant1	Hop	2.88	120	0.345	≤0.4	PASS
2DH1	Ant1	Hop	0.37	320	0.12	≤0.4	PASS
2DH3	Ant1	Hop	1.63	160	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.88	130	0.374	≤0.4	PASS
3DH1	Ant1	Hop	0.37	330	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.63	170	0.276	≤0.4	PASS
3DH5	Ant1	Hop	2.88	120	0.345	≤0.4	PASS

Test Graphs

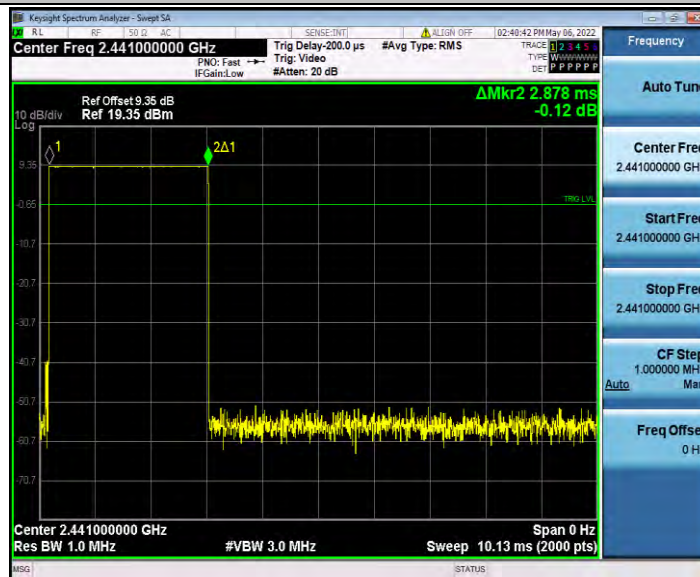
DH1_Ant1_Hop

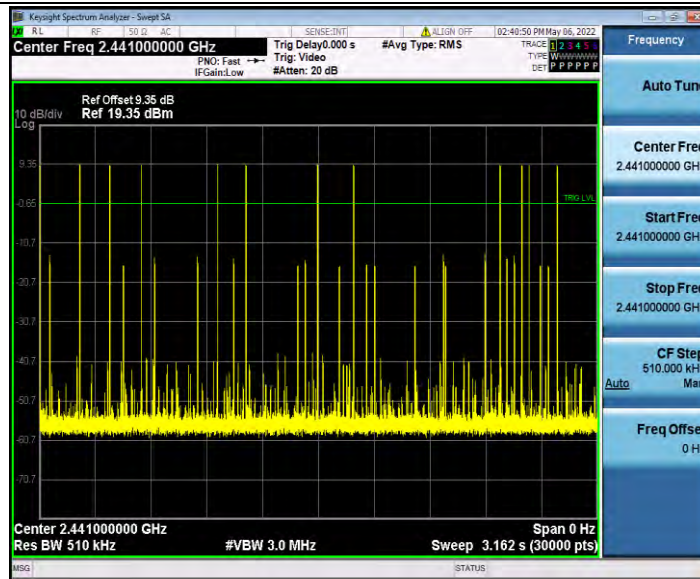


DH3_Ant1_Hop

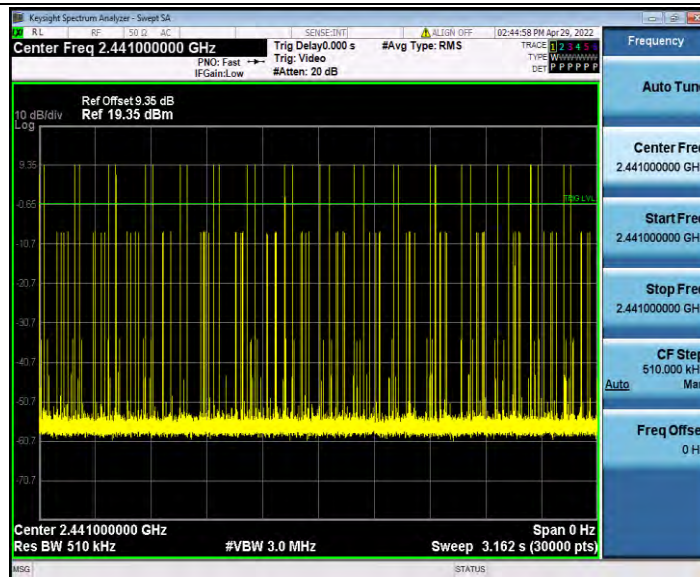
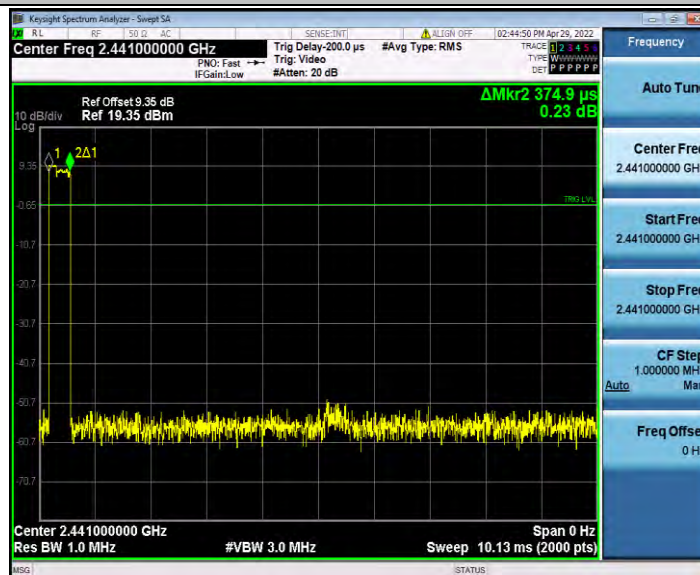


DH5_Ant1_Hop

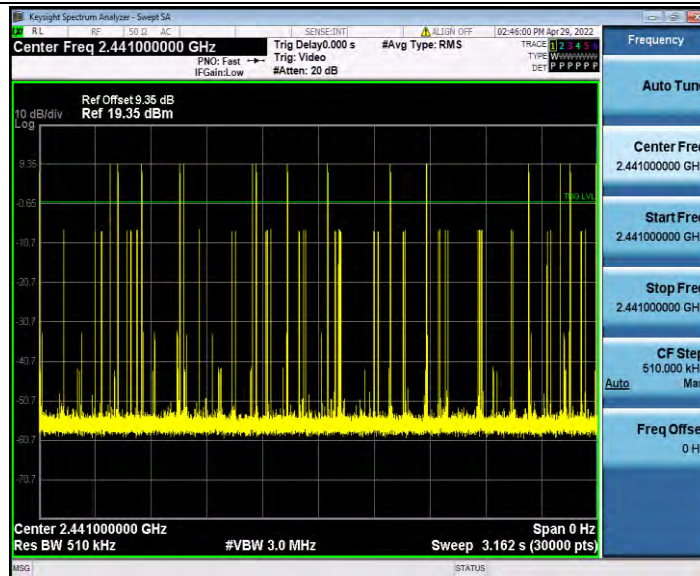
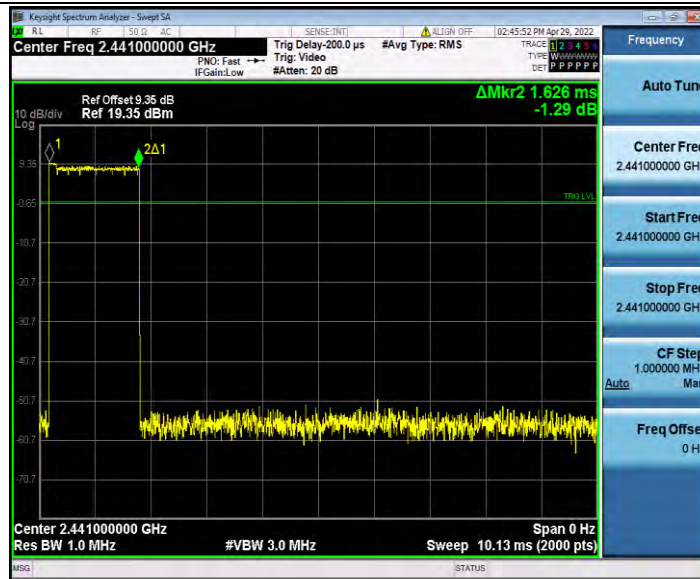




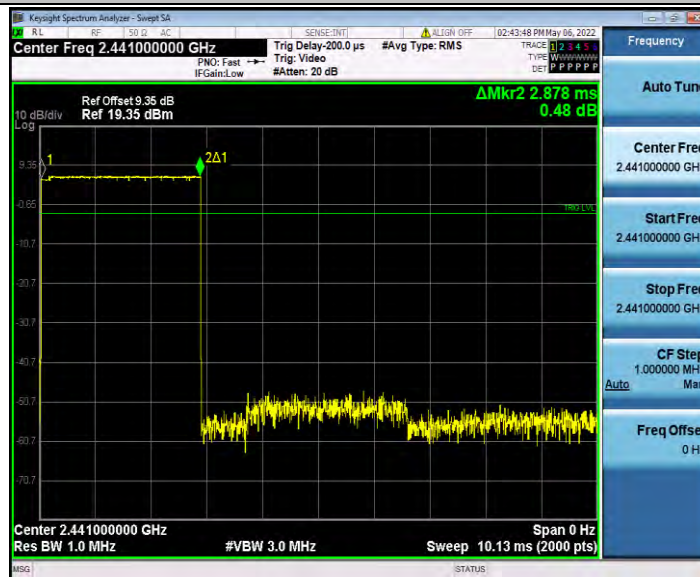
2DH1_Ant1_Hop

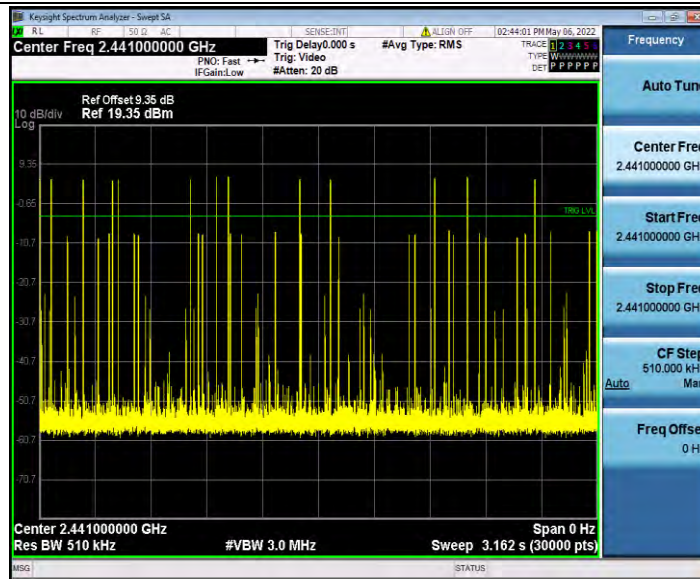


2DH3_Ant1_Hop

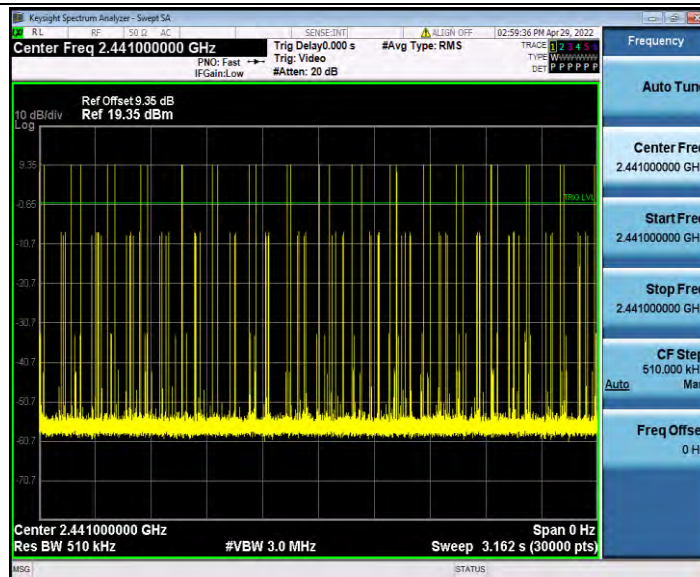
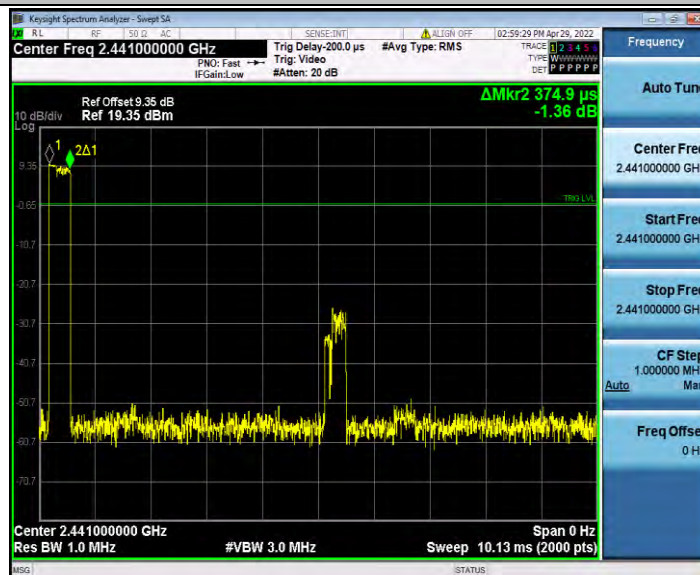


2DH5_Ant1_Hop

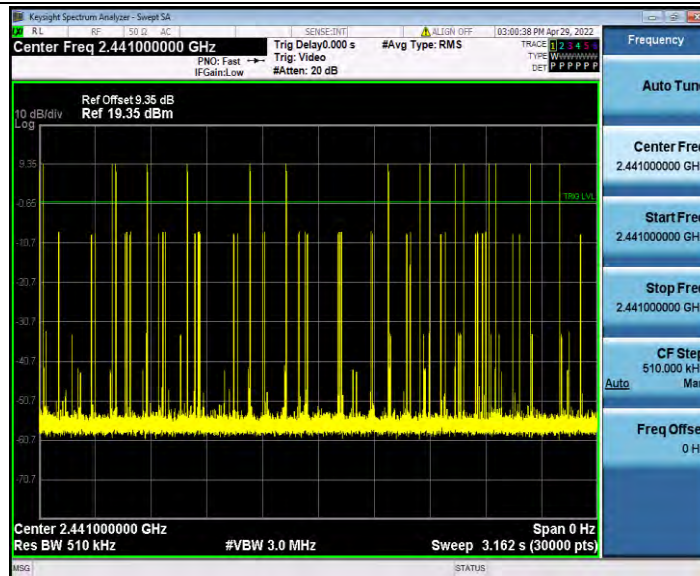
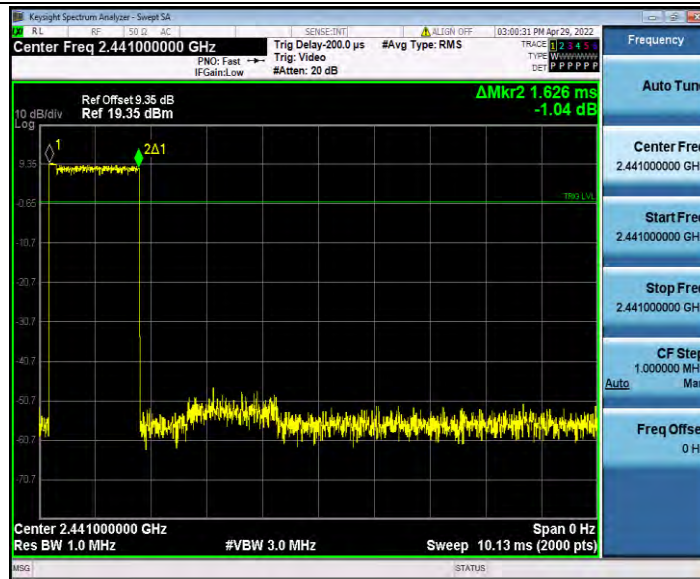




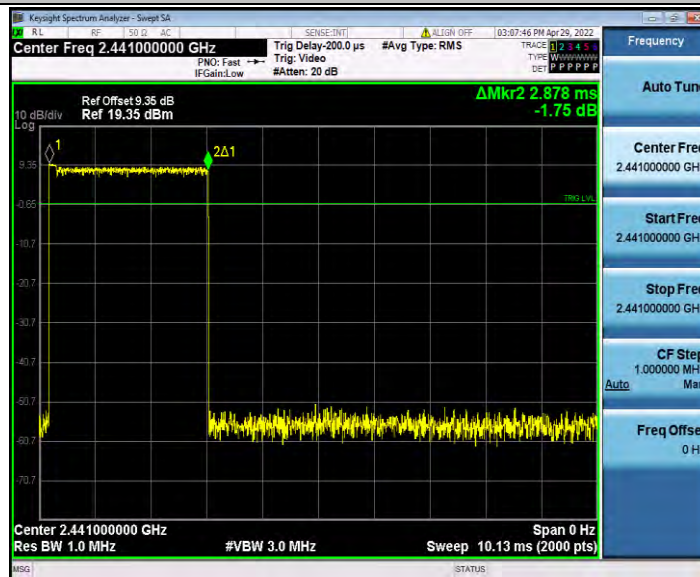
3DH1_Ant1_Hop

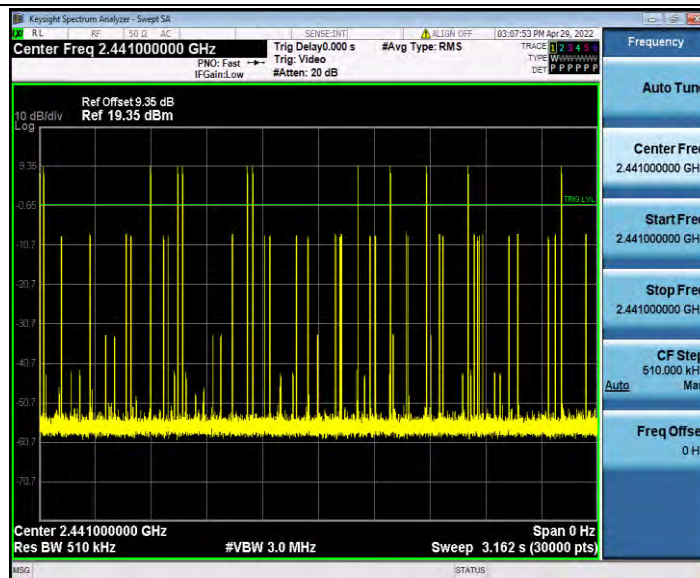


3DH3_Ant1_Hop



3DH5_Ant1_Hop





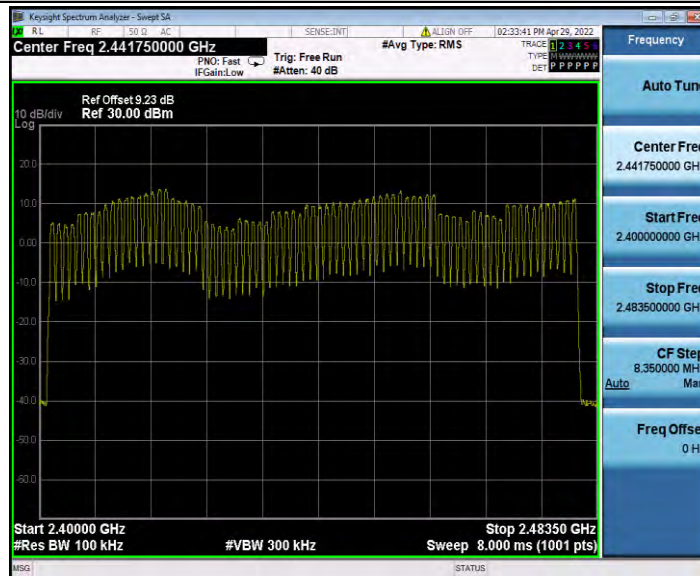
Appendix A.5: Number of hopping channels

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

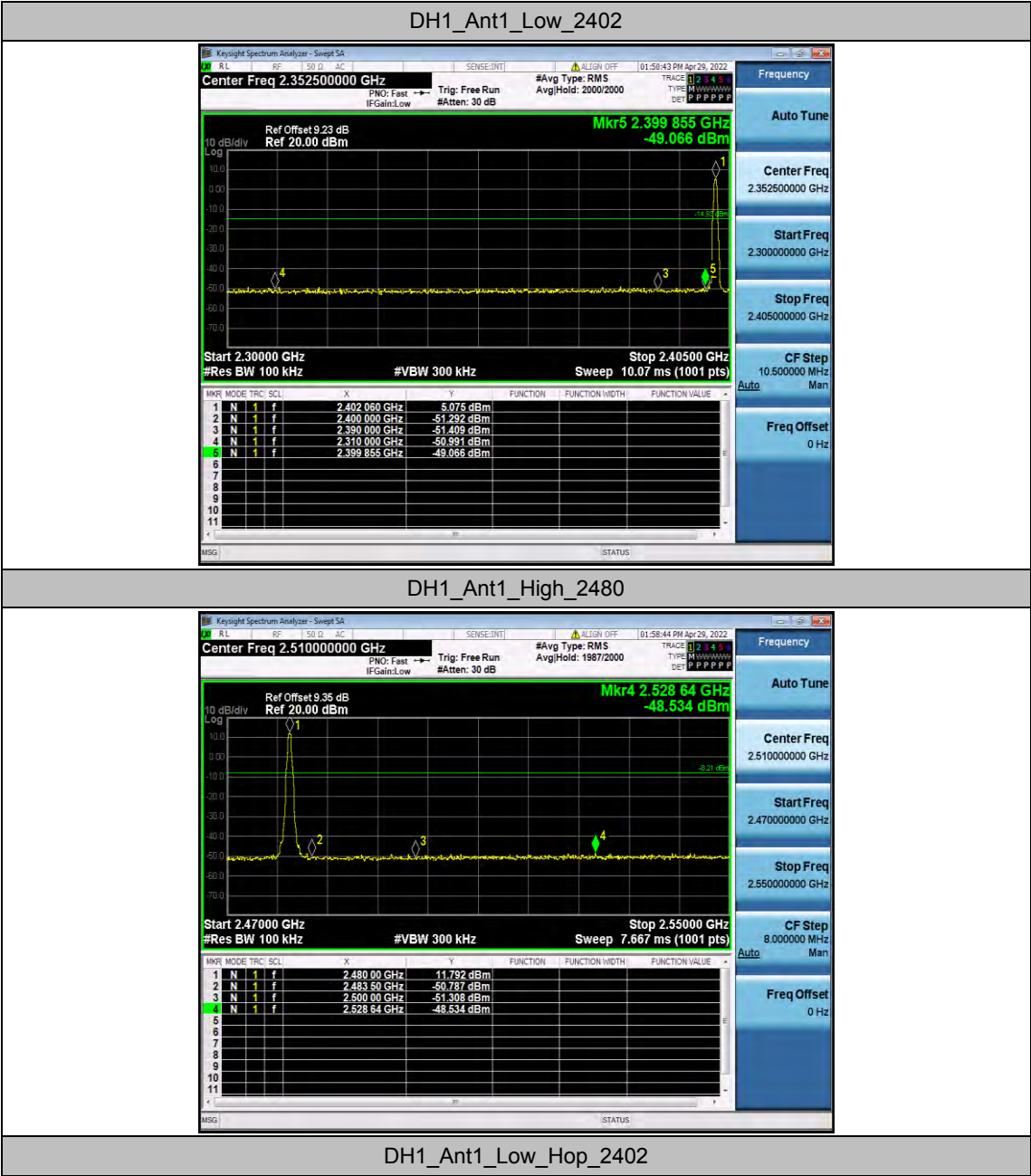


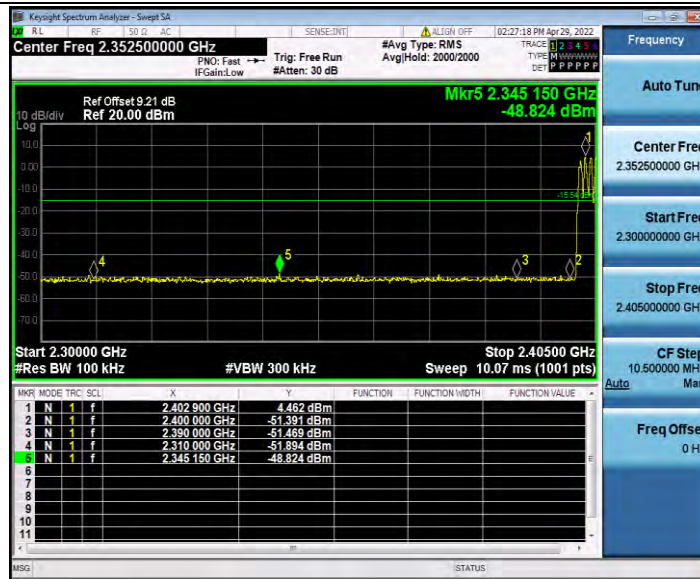
3DH1_Ant1_Hop



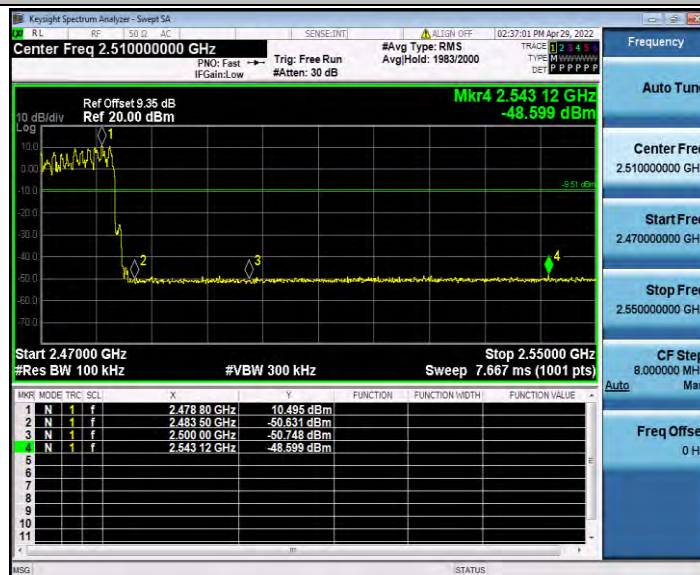
Appendix A.6: Band edge measurements

Test Graphs

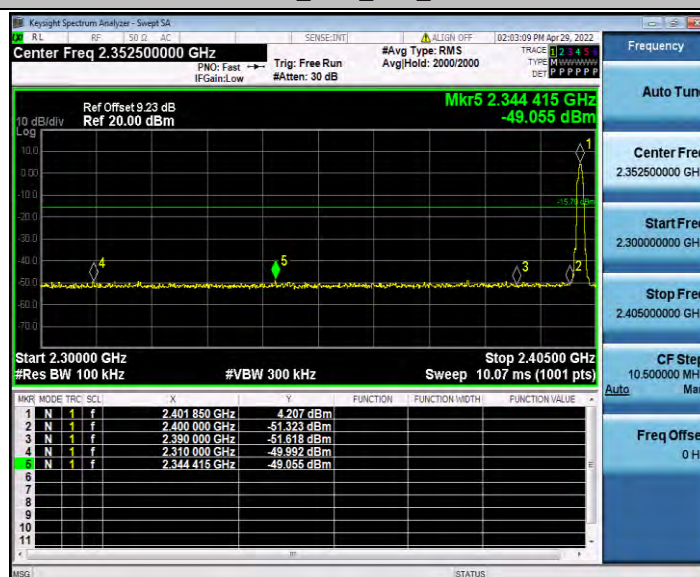




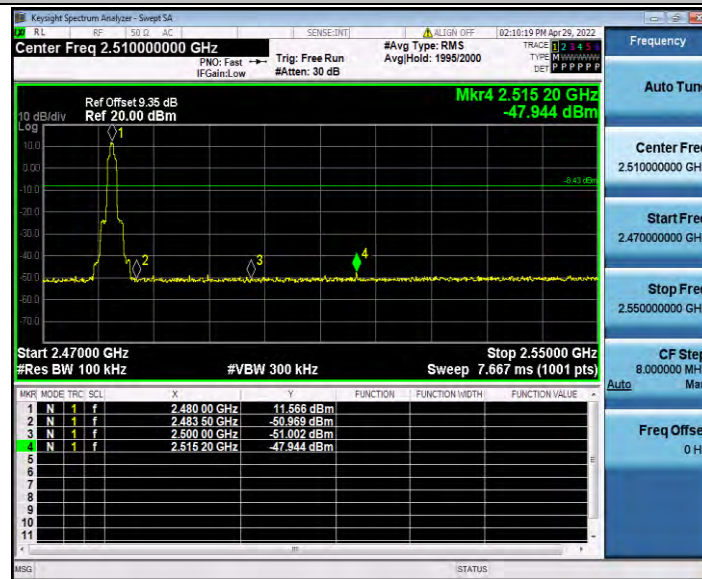
DH1_Ant1_High_Hop_2480



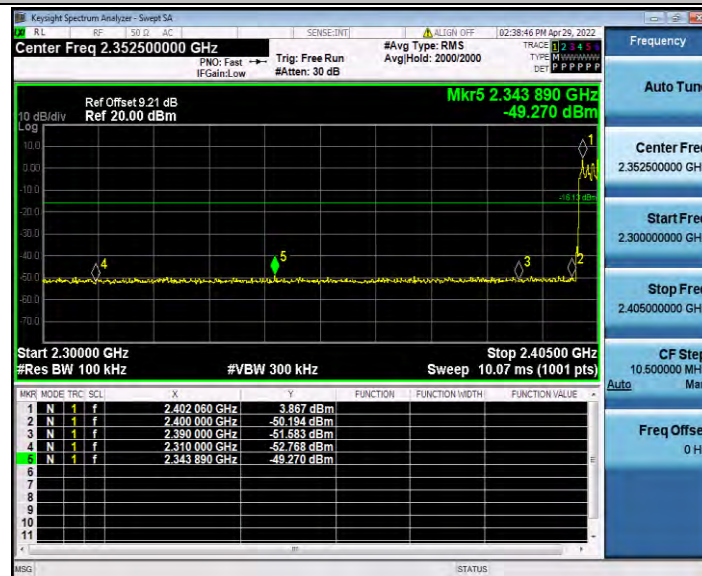
2DH1_Ant1_Low_2402



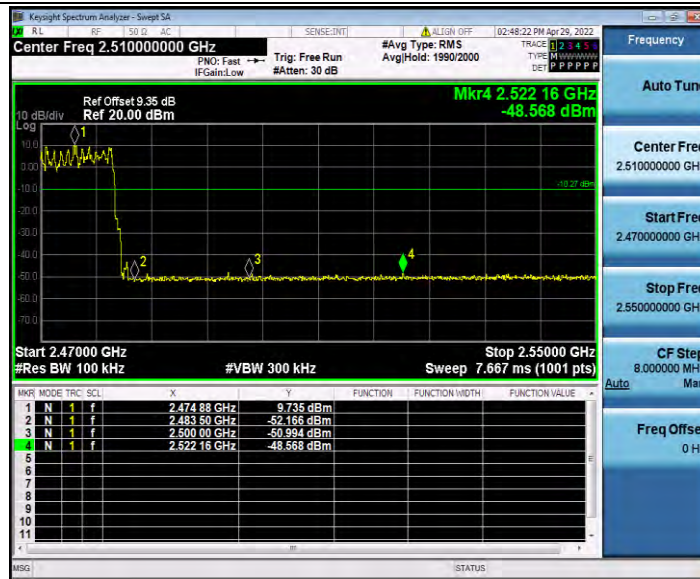
2DH1_Ant1_High_2480



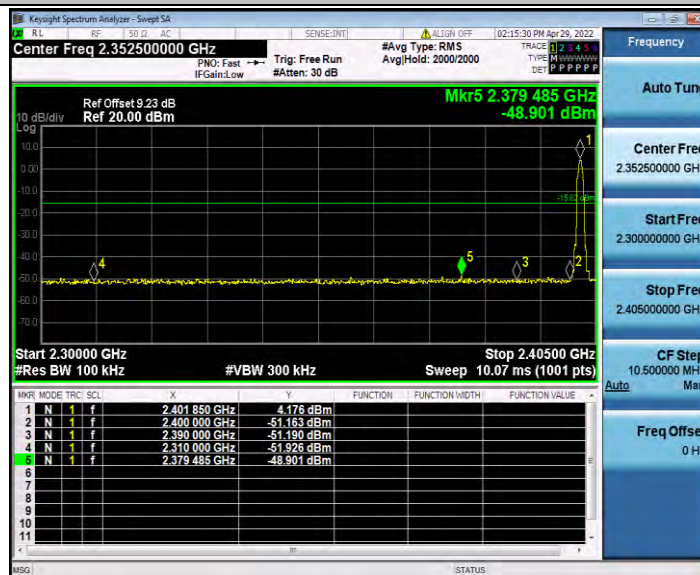
2DH1_Ant1_Low_Hop_2402



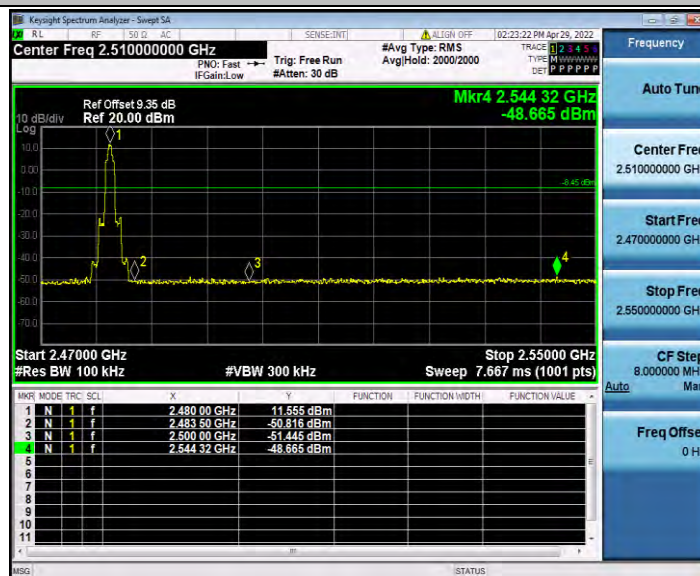
2DH1_Ant1_High_Hop_2480



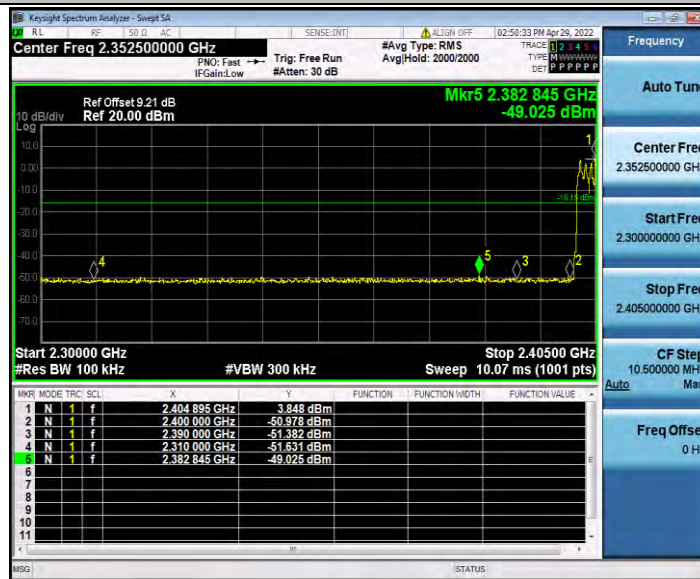
3DH1_Ant1_Low_2402



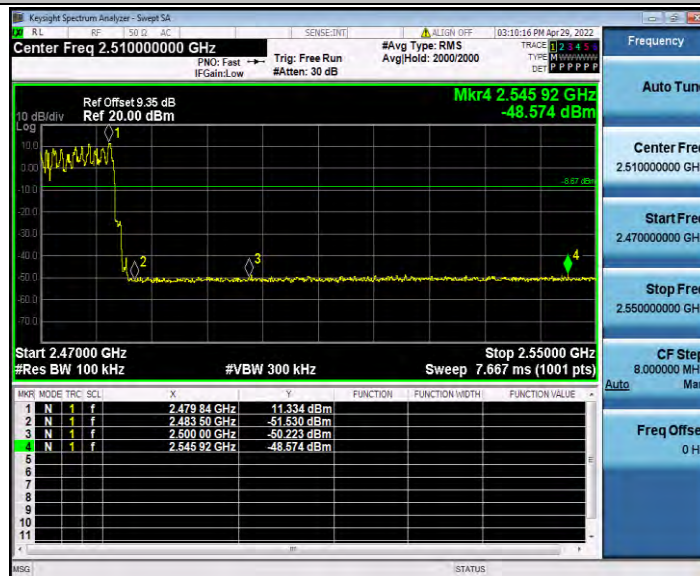
3DH1_Ant1_High_2480



3DH1_Ant1_Low_Hop_2402



3DH1_Ant1_High_Hop_2480



Appendix A.7: Conducted Spurious Emission

Test Result

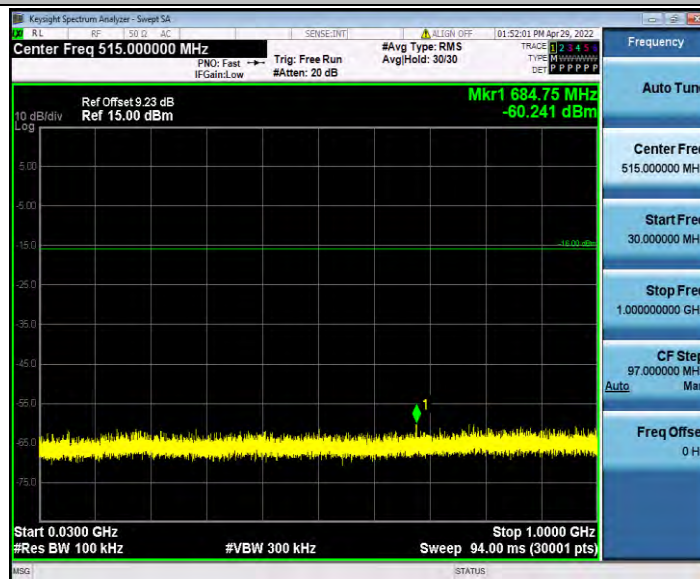
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	4.00	4.00	---	PASS
			30~1000	4.00	-60.24	≤-16	PASS
			1000~26500	4.00	-47.55	≤-16	PASS
		2441	Reference	9.10	9.10	---	PASS
			30~1000	9.10	-60.3	≤-10.9	PASS
			1000~26500	9.10	-45.06	≤-10.9	PASS
		2480	Reference	10.48	10.48	---	PASS
			30~1000	10.48	-60.72	≤-9.52	PASS
			1000~26500	10.48	-46.76	≤-9.52	PASS
2DH1	Ant1	2402	Reference	3.68	3.68	---	PASS
			30~1000	3.68	-50.6	≤-16.32	PASS
			1000~26500	3.68	-47.66	≤-16.32	PASS
		2441	Reference	7.26	7.26	---	PASS
			30~1000	7.26	-59.71	≤-12.74	PASS
			1000~26500	7.26	-46.11	≤-12.74	PASS
		2480	Reference	10.91	10.91	---	PASS
			30~1000	10.91	-60.47	≤-9.09	PASS
			1000~26500	10.91	-46.37	≤-9.09	PASS
3DH1	Ant1	2402	Reference	3.25	3.25	---	PASS
			30~1000	3.25	-60.06	≤-16.75	PASS
			1000~26500	3.25	-47.52	≤-16.75	PASS
		2441	Reference	6.08	6.08	---	PASS
			30~1000	6.08	-60.65	≤-13.92	PASS
			1000~26500	6.08	-45.68	≤-13.92	PASS
		2480	Reference	10.90	10.90	---	PASS
			30~1000	10.90	-60.05	≤-9.1	PASS
			1000~26500	10.90	-47.23	≤-9.1	PASS

Test Graphs

DH1_Ant1_2402_0~Reference



DH1_Ant1_2402_30~1000



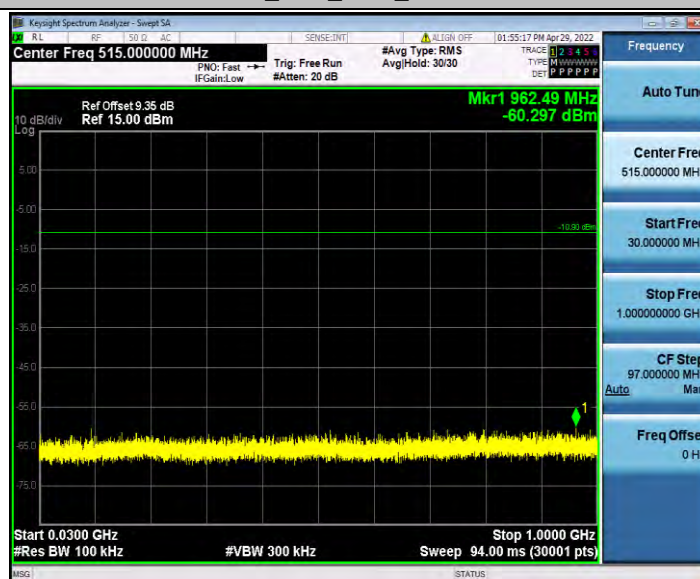
DH1_Ant1_2402_1000~26500



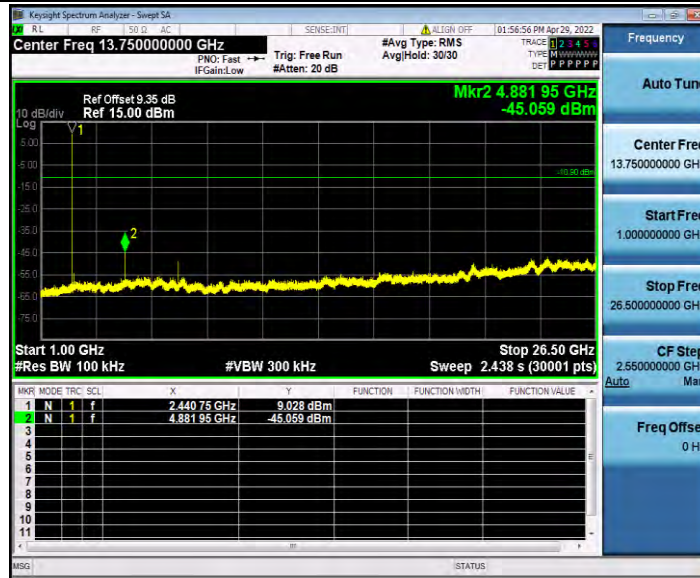
DH1_Ant1_2441_0~Reference



DH1_Ant1_2441_30~1000



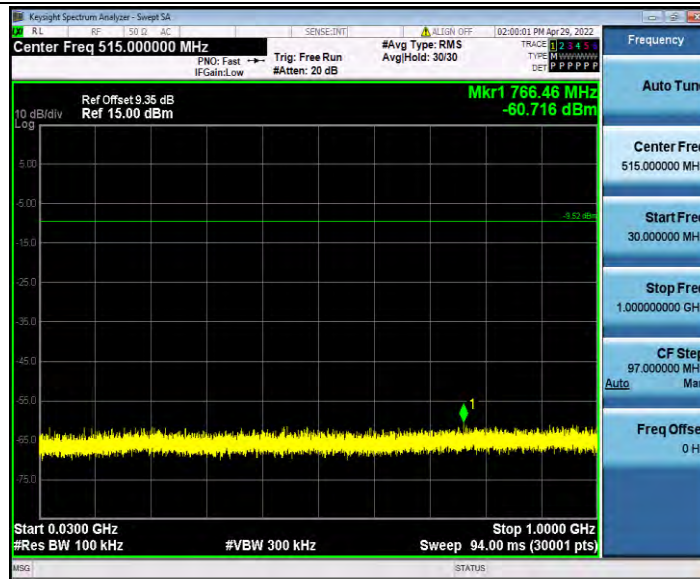
DH1_Ant1_2441_1000~26500



DH1_Ant1_2480_0~Reference



DH1_Ant1_2480_30~1000



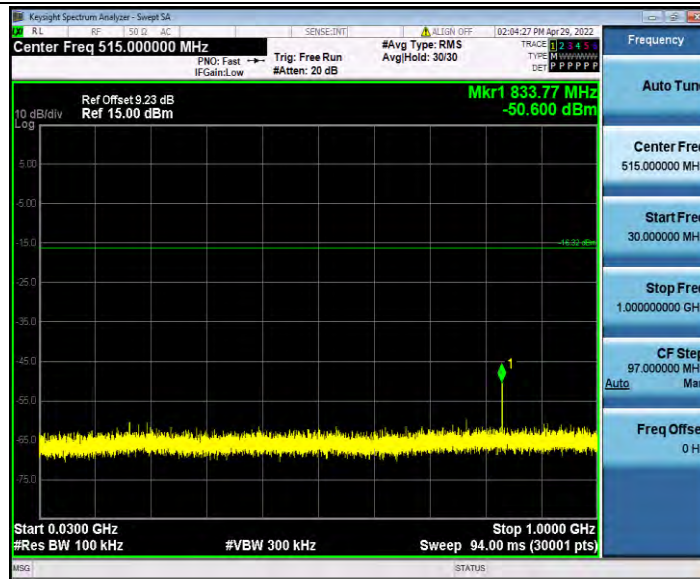
DH1_Ant1_2480_1000~26500



2DH1_Ant1_2402_0~Reference



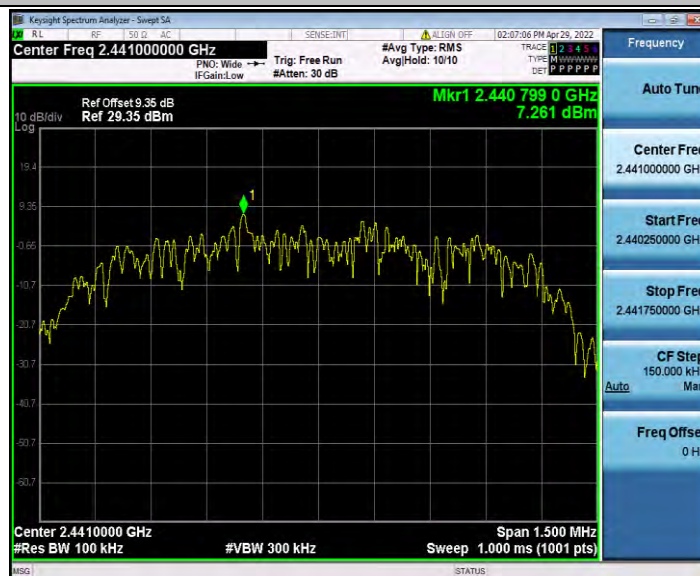
2DH1_Ant1_2402_30~1000



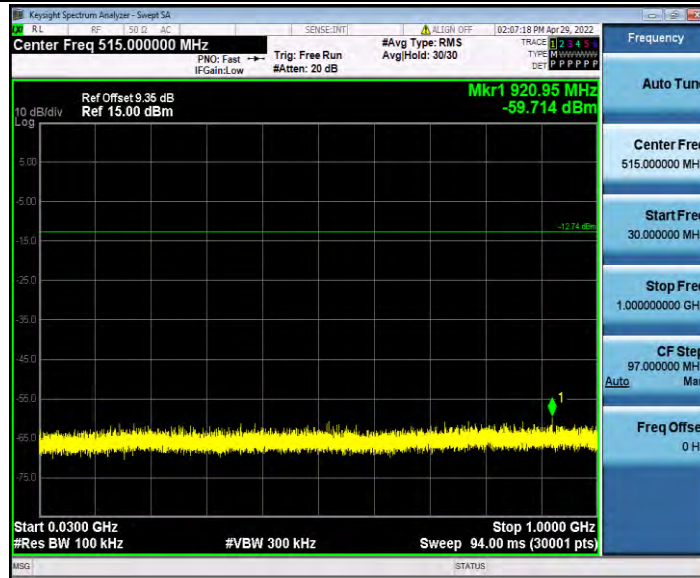
2DH1_Ant1_2402_1000~26500



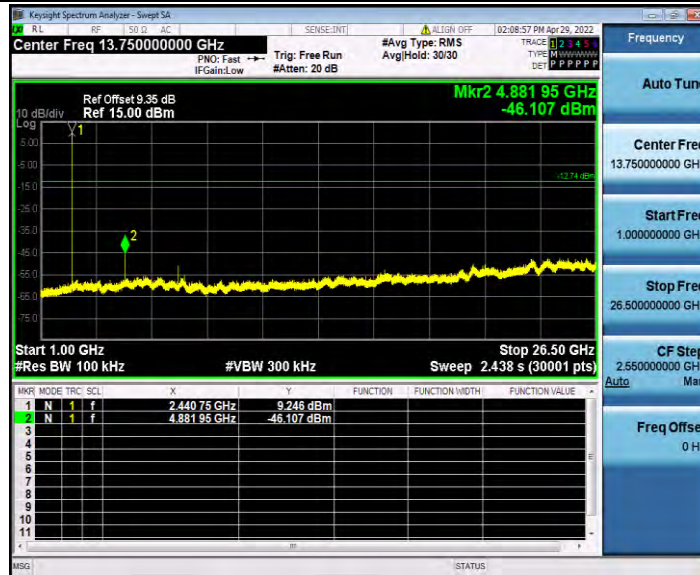
2DH1_Ant1_2441_0~Reference



2DH1_Ant1_2441_30~1000



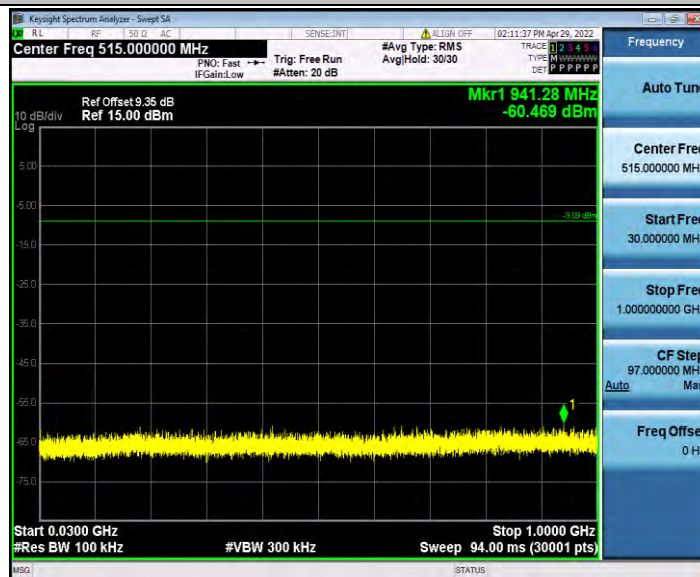
2DH1_Ant1_2441_1000~26500



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



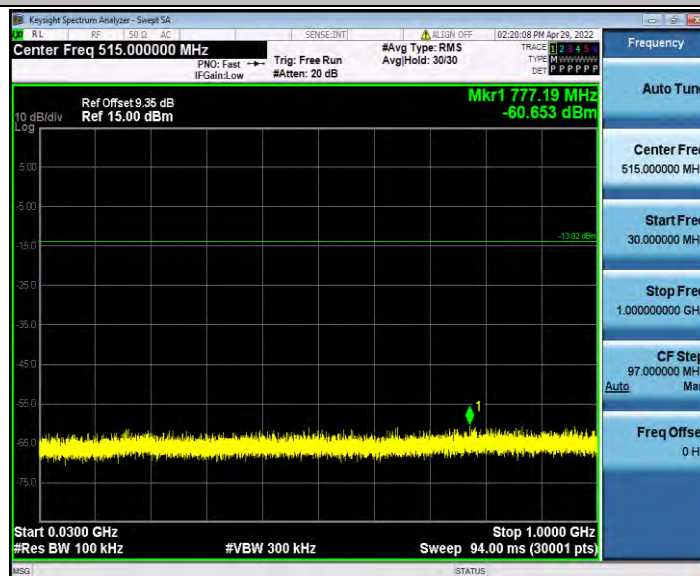
3DH1_Ant1_2402_1000~26500



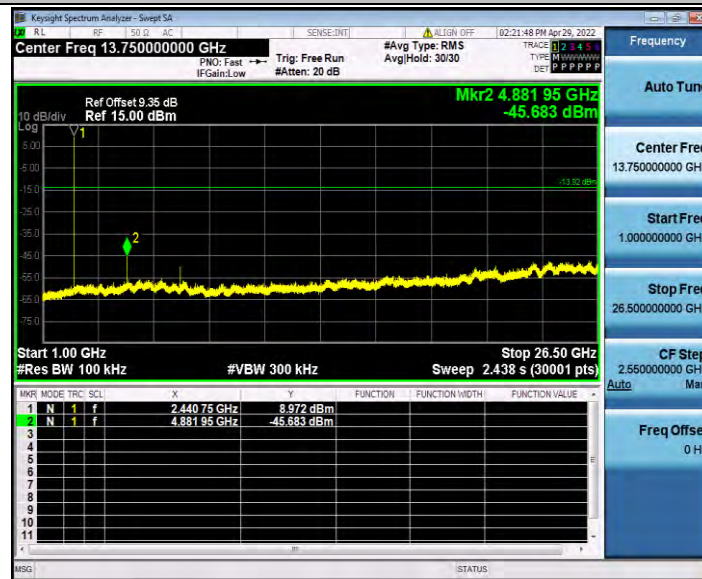
3DH1_Ant1_2441_0~Reference



3DH1_Ant1_2441_30~1000



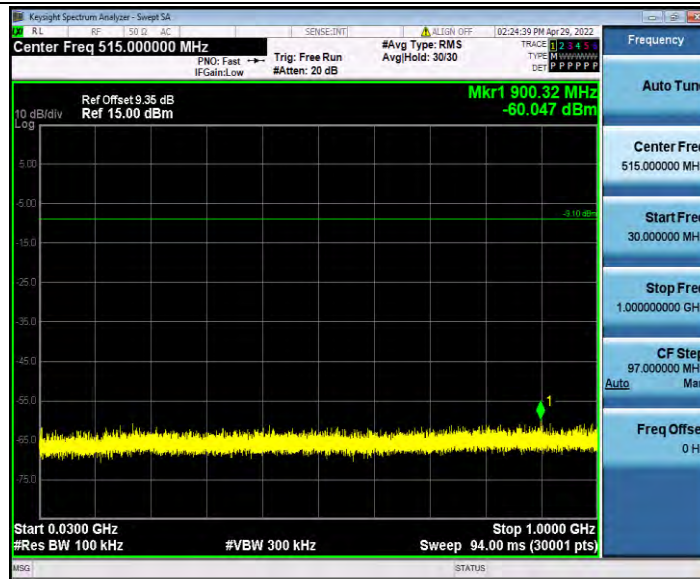
3DH1_Ant1_2441_1000~26500



3DH1_Ant1_2480_0~Reference



3DH1_Ant1_2480_30~1000



3DH1_Ant1_2480_1000~26500

