

Case No. : <u>GTS20220930011-1-6</u>	
Ambient Condition: <u>25</u> °C, <u>45</u> %RH,	
Test Date: <u>2022.10.14</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	Ant0	2402	1.038	2401.487	2402.525	---	---
		2441	1.038	2440.487	2441.525	---	---
		2480	1.038	2479.487	2480.525	---	---
2DH1	Ant0	2402	1.350	2401.322	2402.672	---	---
		2441	1.353	2440.319	2441.672	---	---
		2480	1.347	2479.322	2480.669	---	---
3DH1	Ant0	2402	1.296	2401.340	2402.636	---	---
		2441	1.293	2440.340	2441.633	---	---
		2480	1.296	2479.340	2480.636	---	---

Test Graphs

DH1_Ant0_2402



DH1_Ant0_2441



DH1_Ant0_2480



2DH1_Ant0_2402



2DH1_Ant0_2441



2DH1_Ant0_2480



3DH1_Ant0_2402



3DH1_Ant0_2441



3DH1_Ant0_2480



Appendix A.2: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant0	2402	0.91380	2401.531	2402.445	---	---
		2441	0.91393	2440.531	2441.445	---	---
		2480	0.91461	2479.529	2480.444	---	---
2DH1	Ant0	2402	1.1853	2401.401	2402.587	---	---
		2441	1.1839	2440.402	2441.586	---	---
		2480	1.1840	2479.402	2480.586	---	---
3DH1	Ant0	2402	1.1697	2401.413	2402.582	---	---
		2441	1.1668	2440.415	2441.582	---	---
		2480	1.1662	2479.415	2480.581	---	---

Test Graphs

DH1_Ant0_2402



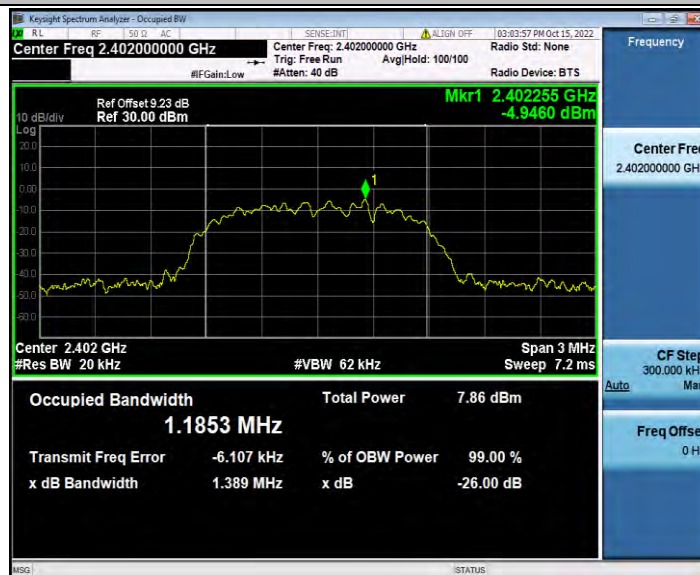
DH1_Ant0_2441



DH1_Ant0_2480



2DH1_Ant0_2402



2DH1_Ant0_2441



2DH1_Ant0_2480



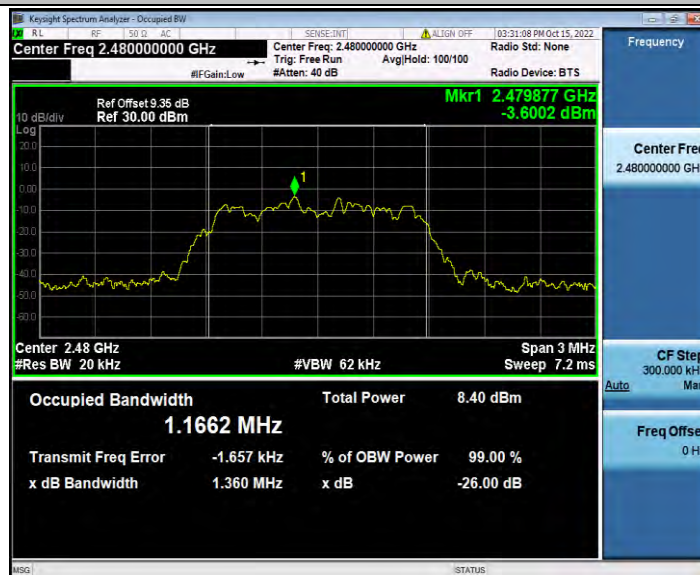
3DH1_Ant0_2402



3DH1_Ant0_2441



3DH1_Ant0_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	Ant0	2402	3.38	≤20.97	PASS
		2441	3.86	≤20.97	PASS
		2480	4.12	≤20.97	PASS
2DH1	Ant0	2402	5.58	≤20.97	PASS
		2441	6	≤20.97	PASS
		2480	6.27	≤20.97	PASS
3DH1	Ant0	2402	5.9	≤20.97	PASS
		2441	6.33	≤20.97	PASS
		2480	6.69	≤20.97	PASS

Appendix A.4: Carrier frequency separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant0	Hop_2402	1.332	≥ 0.692	PASS
		Hop_2441	1.008	≥ 0.692	PASS
		Hop_2480	1.306	≥ 0.692	PASS
2DH1	Ant0	Hop_2402	1.334	≥ 0.902	PASS
		Hop_2441	1.318	≥ 0.902	PASS
		Hop_2480	1	≥ 0.902	PASS
3DH1	Ant0	Hop_2402	0.998	≥ 0.864	PASS
		Hop_2441	1	≥ 0.864	PASS
		Hop_2480	1.014	≥ 0.864	PASS

Test Graphs

DH1_Ant0_Hop_2402



DH1_Ant0_Hop_2441



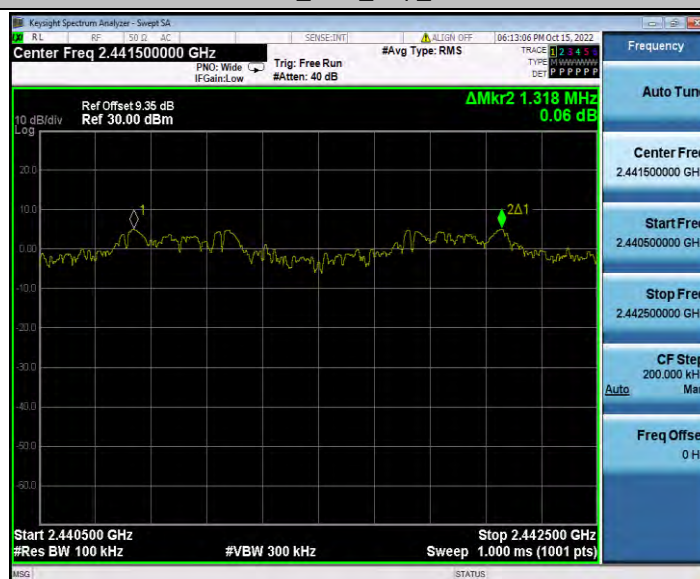
DH1_Ant0_Hop_2480



2DH1_Ant0_Hop_2402



2DH1_Ant0_Hop_2441



2DH1_Ant0_Hop_2480



3DH1_Ant0_Hop_2402



3DH1_Ant0_Hop_2441



3DH1_Ant0_Hop_2480



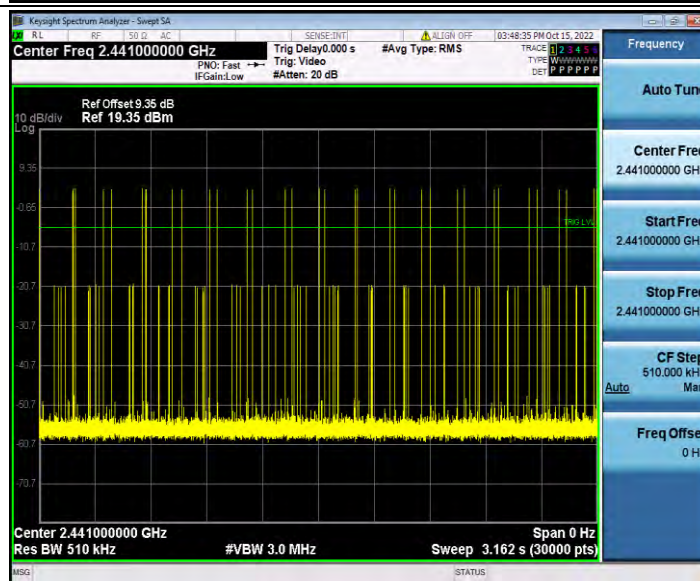
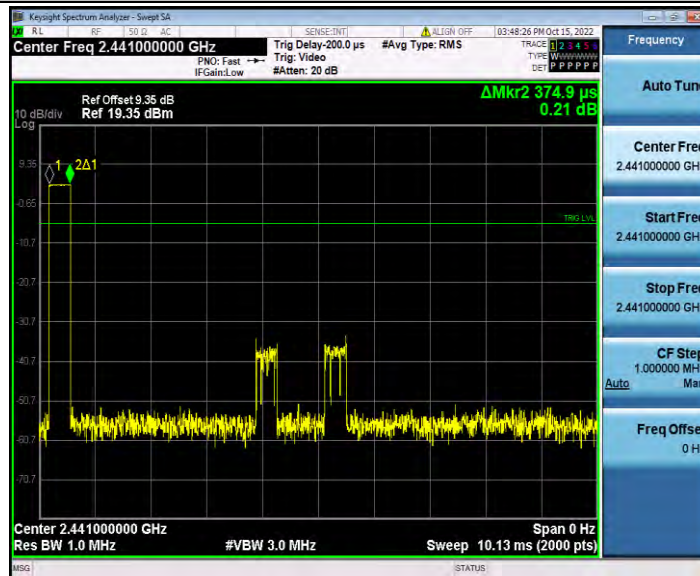
Appendix A.5: Time of occupancy

Test Result

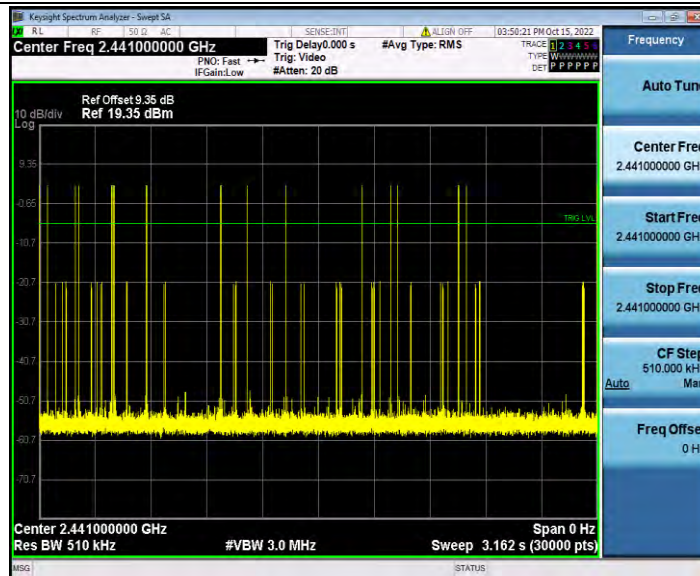
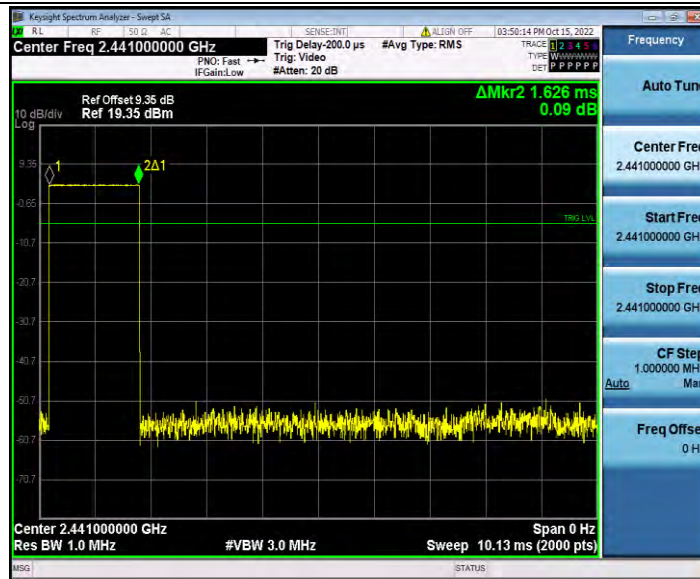
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant0	Hop	0.37	330	0.124	≤0.4	PASS
DH3	Ant0	Hop	1.63	160	0.26	≤0.4	PASS
DH5	Ant0	Hop	2.88	80	0.23	≤0.4	PASS
2DH1	Ant0	Hop	0.38	330	0.125	≤0.4	PASS
2DH3	Ant0	Hop	1.64	180	0.295	≤0.4	PASS
2DH5	Ant0	Hop	2.88	130	0.374	≤0.4	PASS
3DH1	Ant0	Hop	0.38	330	0.125	≤0.4	PASS
3DH3	Ant0	Hop	1.63	170	0.277	≤0.4	PASS
3DH5	Ant0	Hop	2.88	110	0.317	≤0.4	PASS

Test Graphs

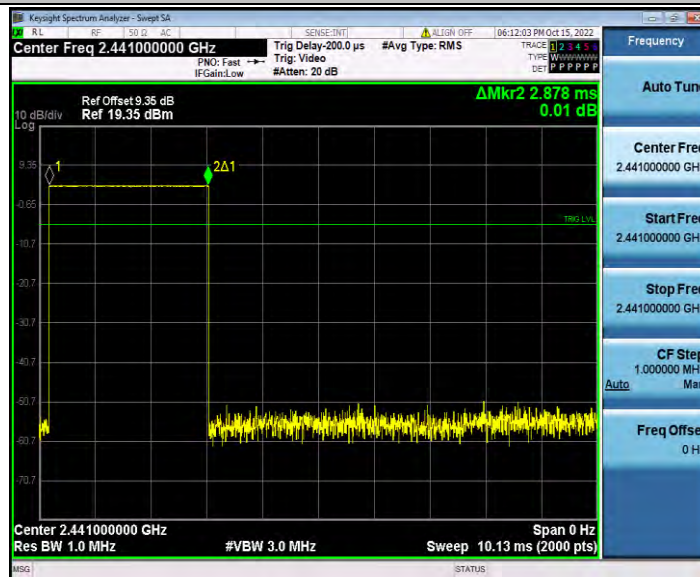
DH1_Ant0_Hop

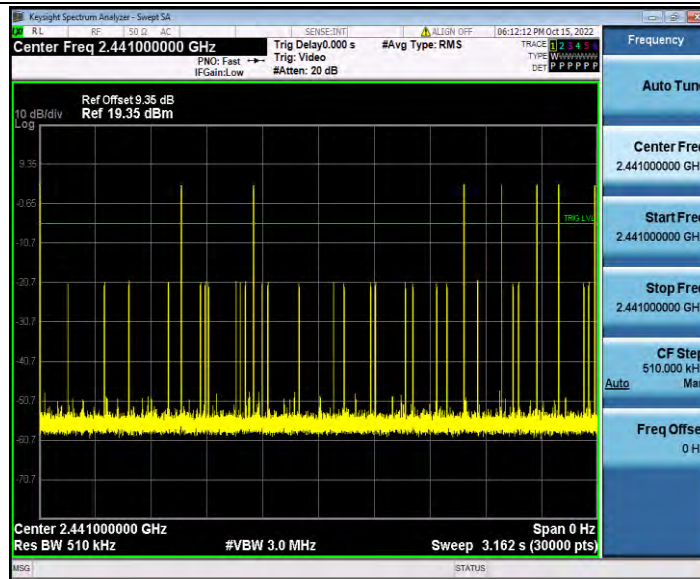


DH3_Ant0_Hop

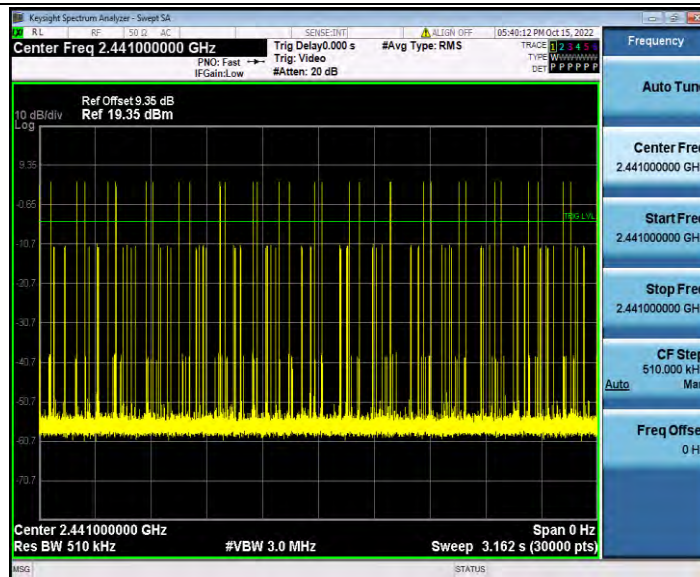
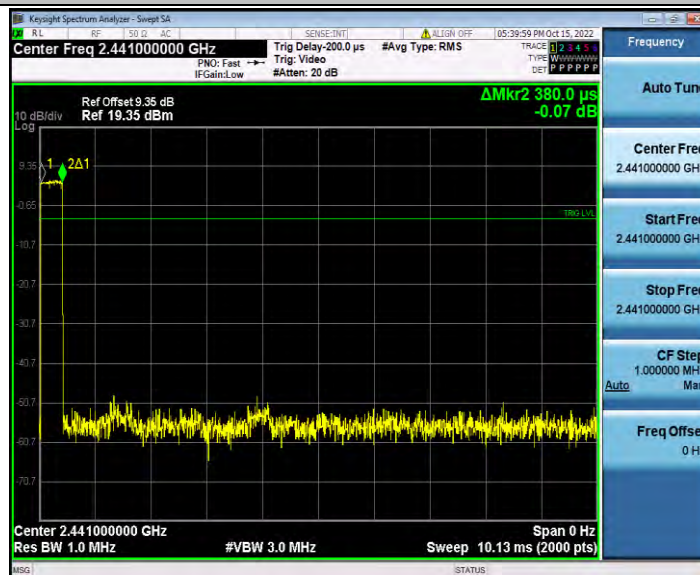


DH5_Ant0_Hop

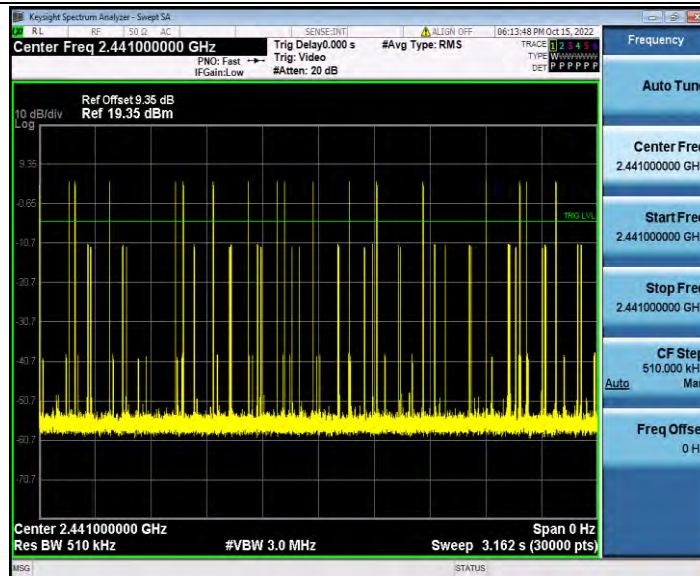
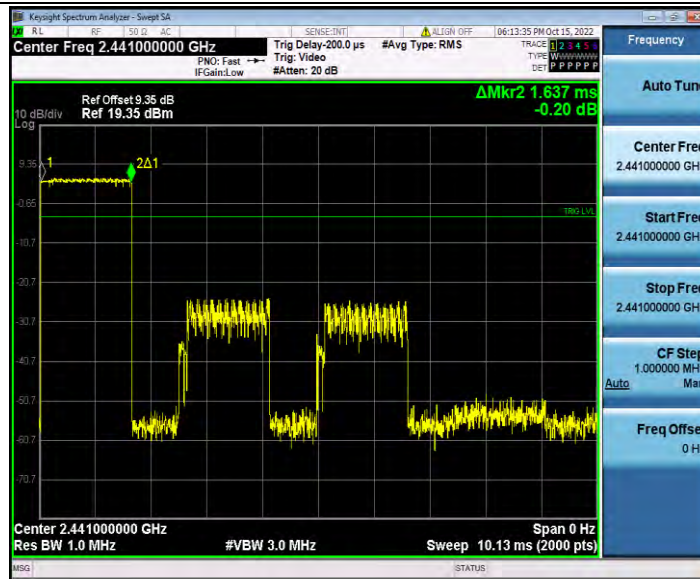




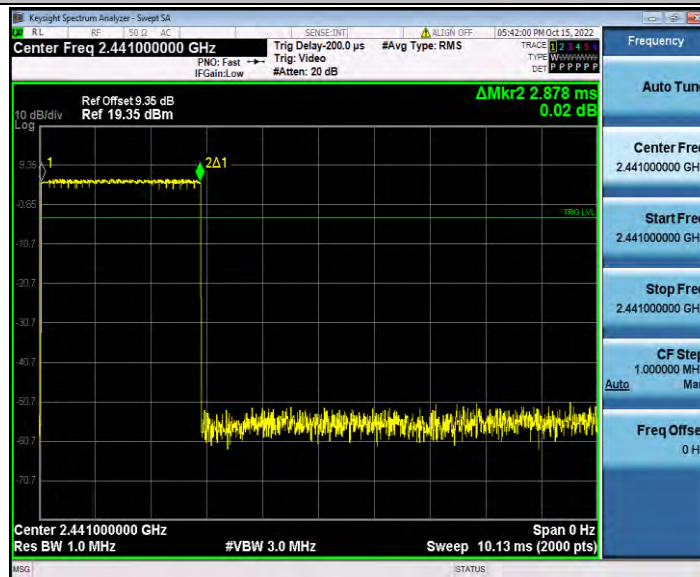
2DH1_Ant0_Hop

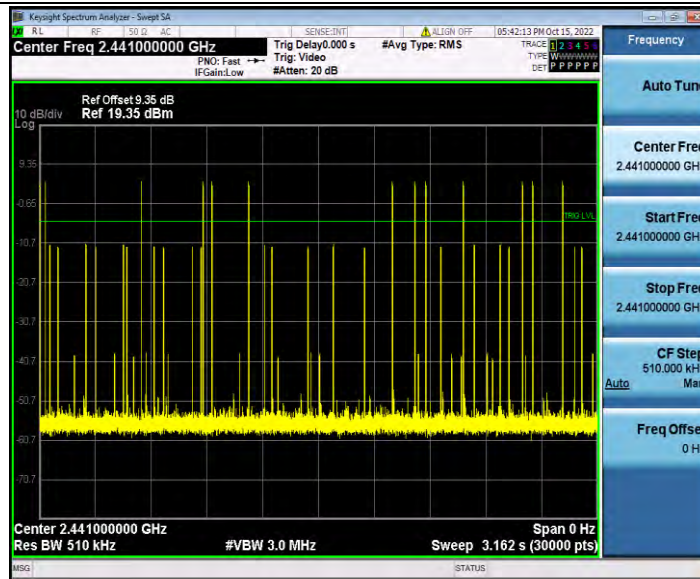


2DH3_Ant0_Hop

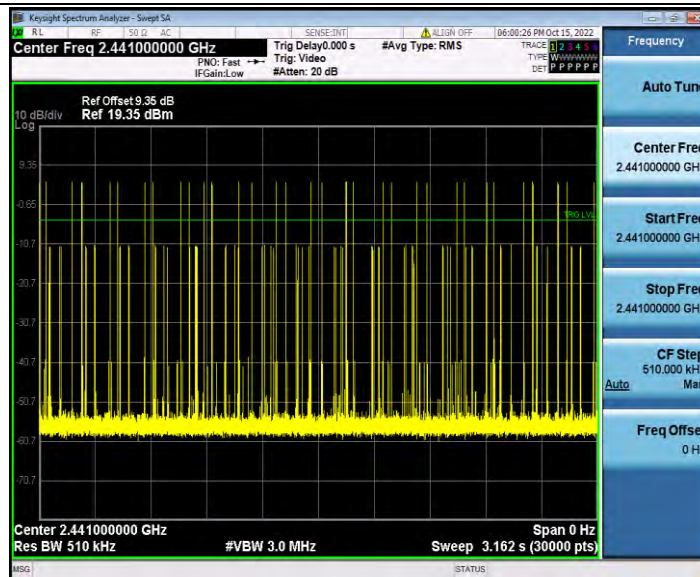
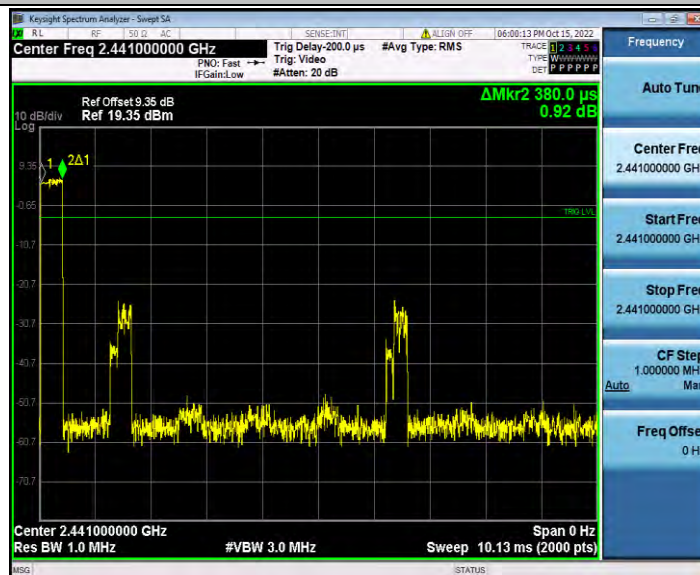


2DH5_Ant0_Hop

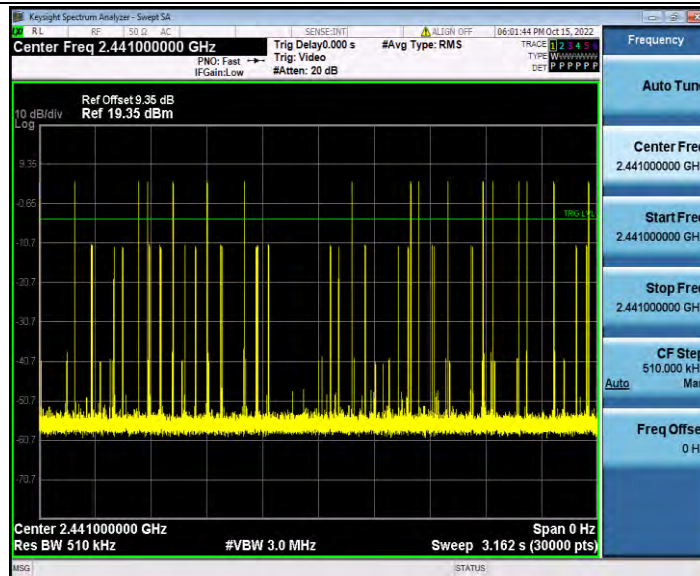
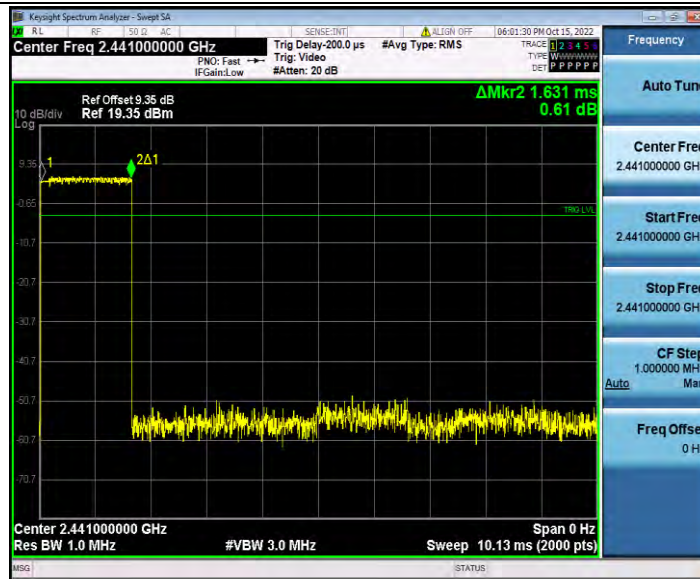




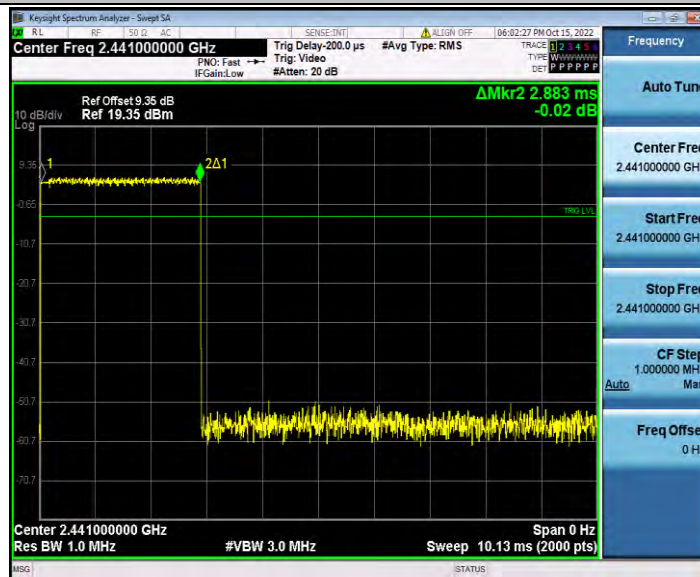
3DH1_Ant0_Hop

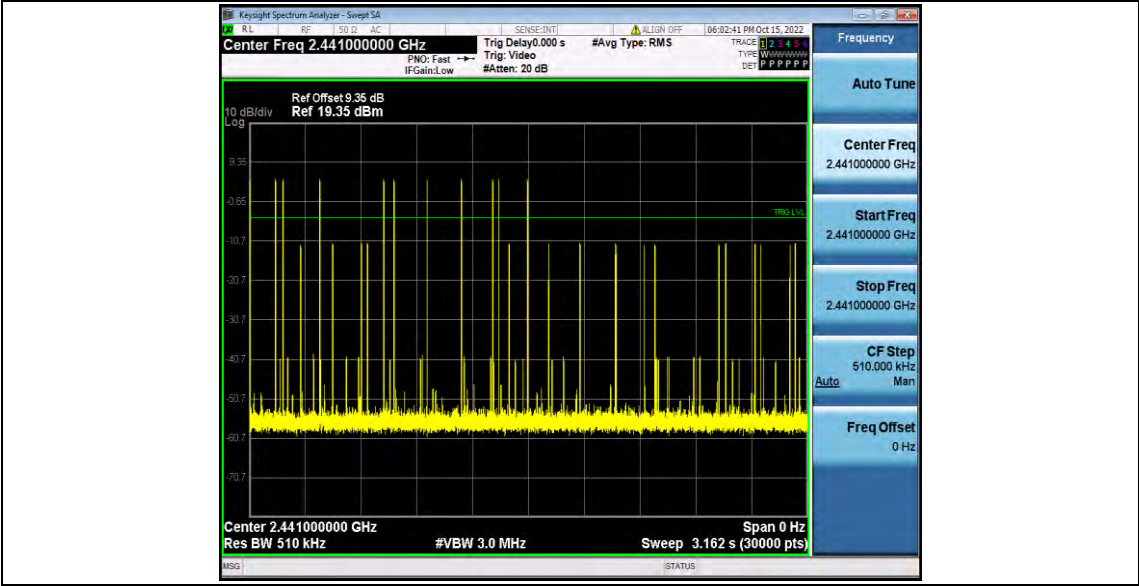


3DH3_Ant0_Hop



3DH5_Ant0_Hop





Appendix A.6: Number of hopping channels

Test Result

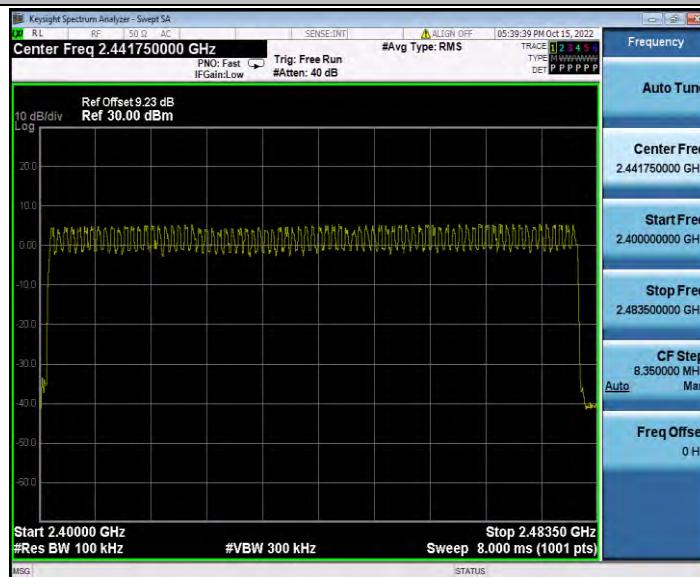
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH1	Ant0	Hop	79	≥15	PASS
2DH1	Ant0	Hop	79	≥15	PASS
3DH1	Ant0	Hop	79	≥15	PASS

Test Graphs

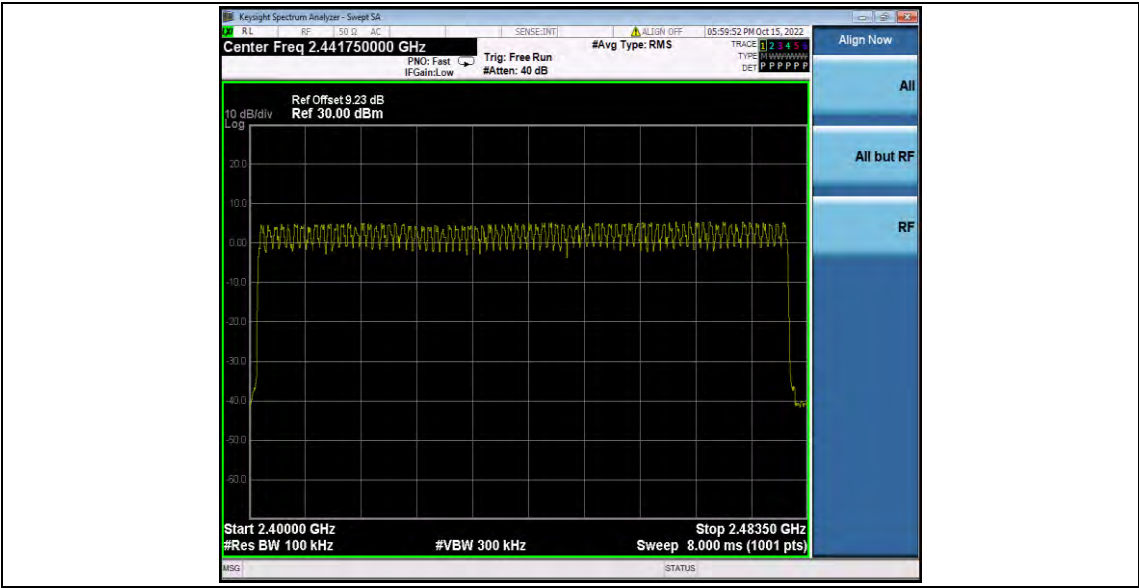
DH1_Ant0_Hop



2DH1_Ant0_Hop



3DH1_Ant0_Hop



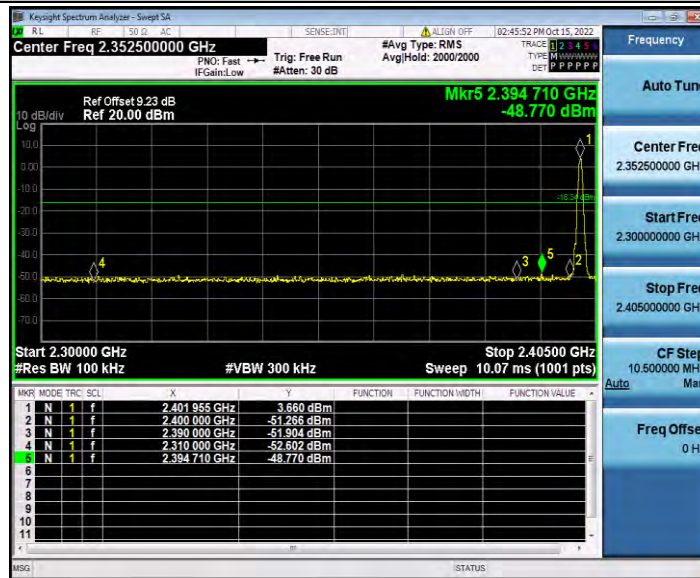
Appendix A.7: Band edge measurements

Test Result

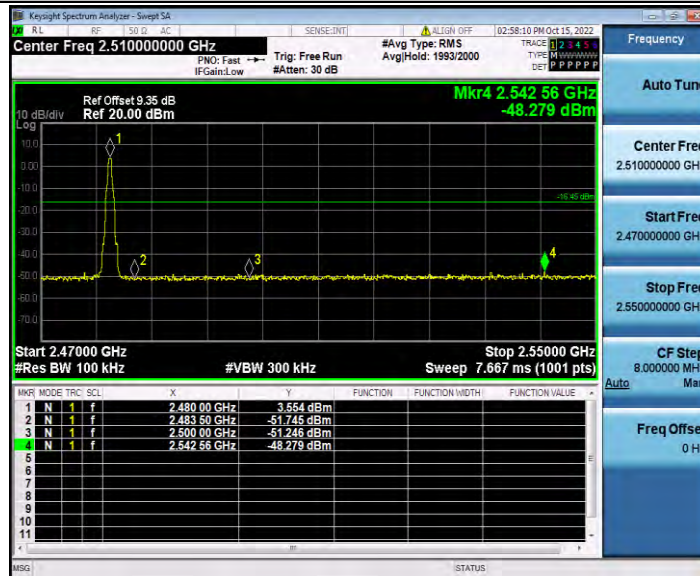
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant0	Low	2402	3.66	-48.77	≤-16.34	PASS
		High	2480	3.55	-48.28	≤-16.45	PASS
		Low	Hop_2402	3.19	-48.89	≤-16.81	PASS
		High	Hop_2480	4.23	-48.7	≤-15.77	PASS
2DH1	Ant0	Low	2402	0.91	-48.03	≤-19.09	PASS
		High	2480	1.62	-47.96	≤-18.38	PASS
		Low	Hop_2402	4.46	-49.26	≤-15.54	PASS
		High	Hop_2480	5.25	-48.39	≤-14.75	PASS
3DH1	Ant0	Low	2402	1.26	-47.78	≤-18.74	PASS
		High	2480	1.91	-47.64	≤-18.09	PASS
		Low	Hop_2402	4.21	-49.68	≤-15.79	PASS
		High	Hop_2480	4.49	-48.92	≤-15.52	PASS

Test Graphs

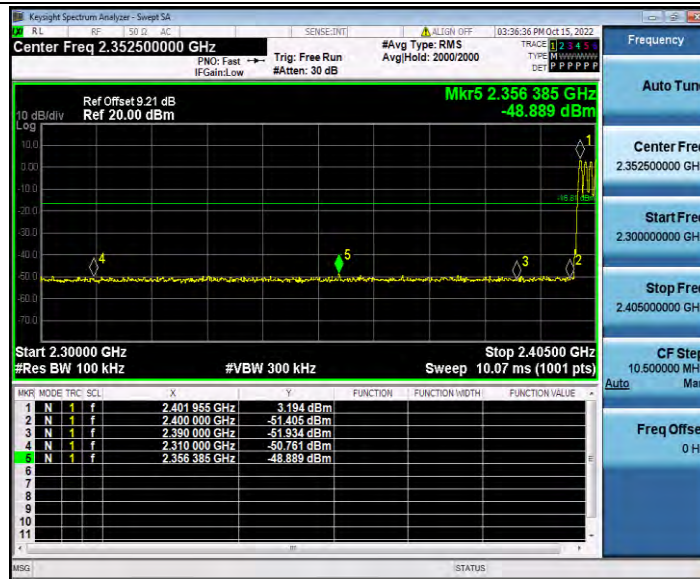
DH1_Ant0_Low_2402



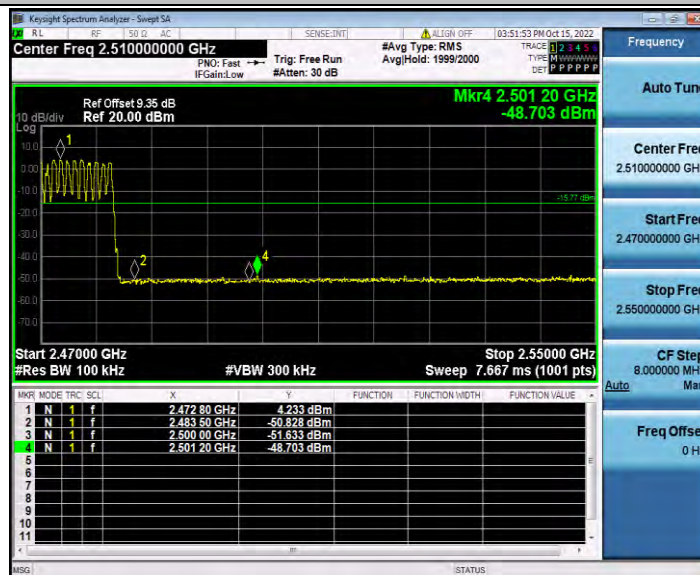
DH1_Ant0_High_2480



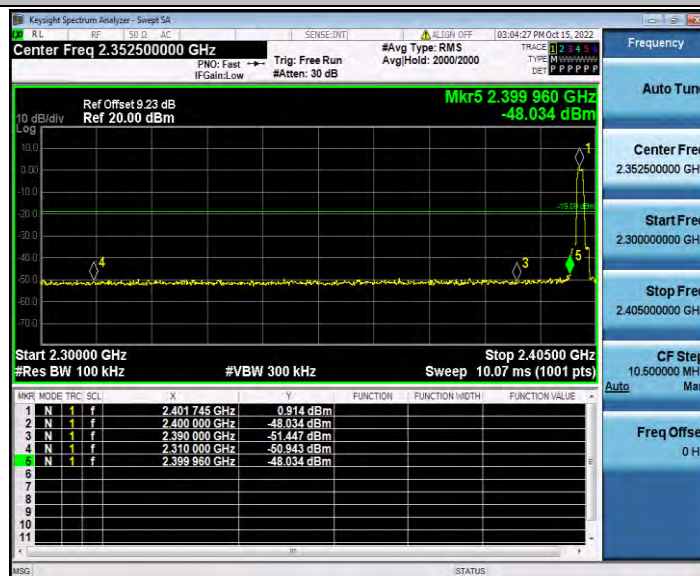
DH1_Ant0_Low_Hop_2402



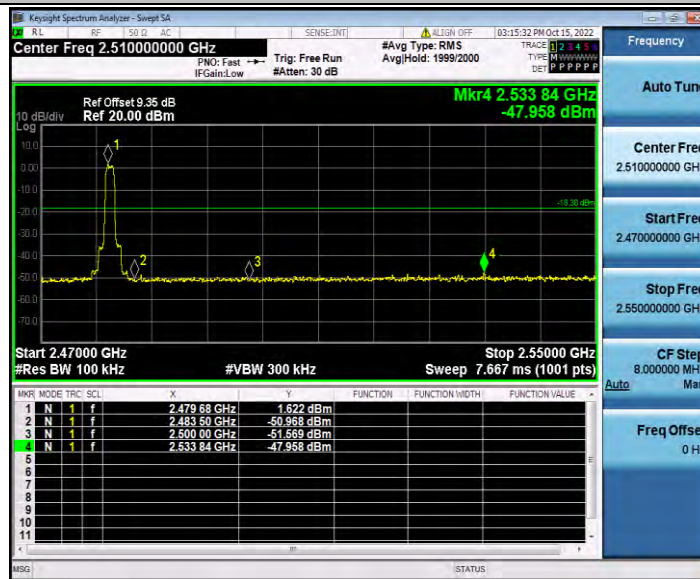
DH1_Ant0_High_Hop_2480



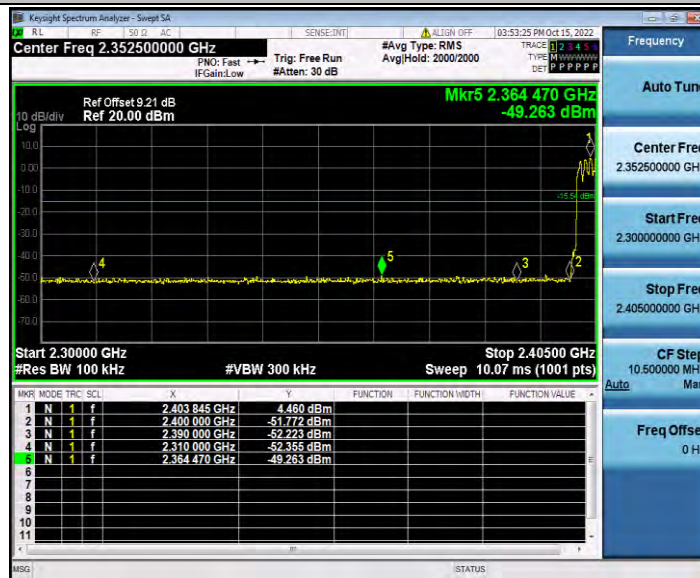
2DH1_Ant0_Low_2402



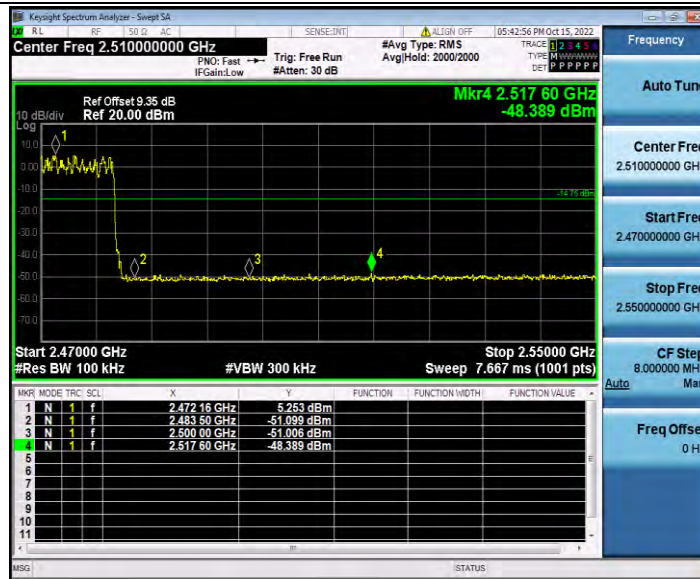
2DH1_Ant0_High_2480



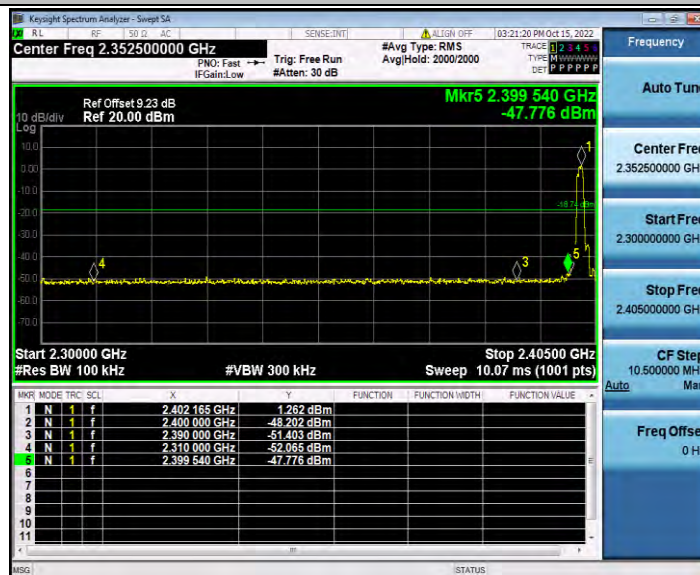
2DH1_Ant0_Low_Hop_2402



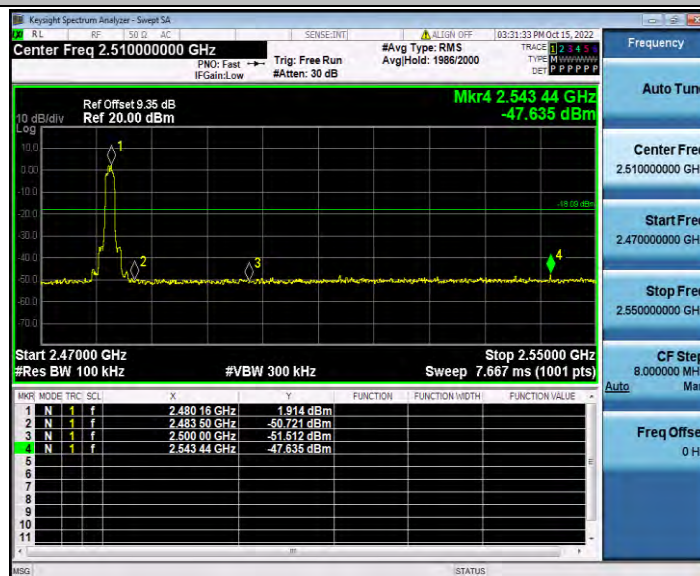
2DH1_Ant0_High_Hop_2480



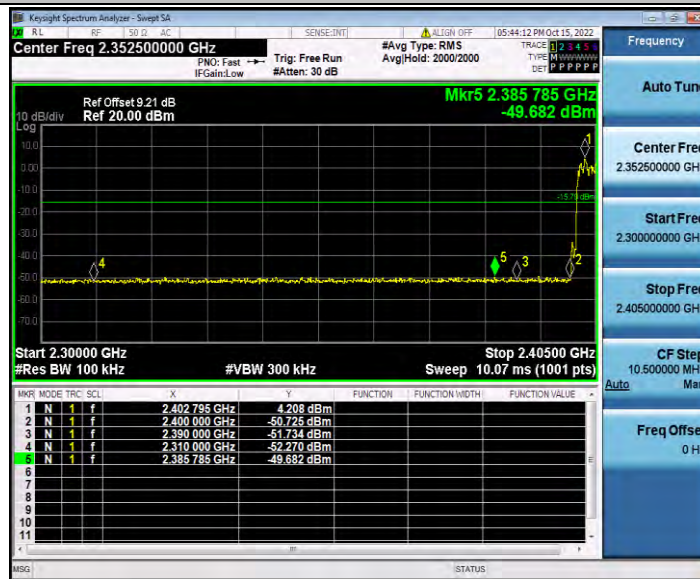
3DH1_Ant0_Low_2402



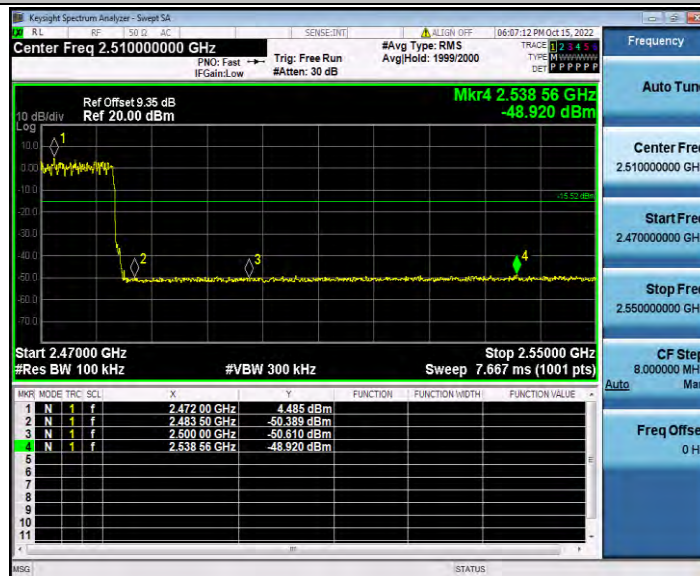
3DH1_Ant0_High_2480



3DH1_Ant0_Low_Hop_2402



3DH1_Ant0_High_Hop_2480



Appendix A.8: Conducted Spurious Emission

Test Result

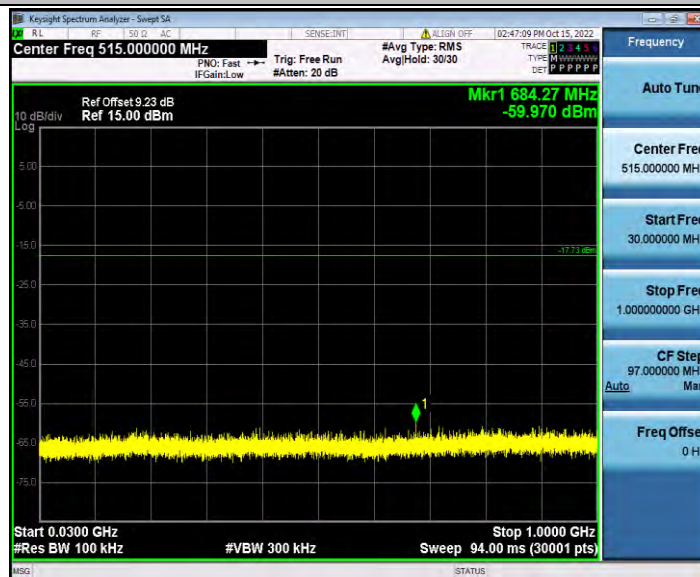
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant0	2402	Reference	2.27	2.27	---	PASS
			30~1000	2.27	-59.97	≤-17.73	PASS
			1000~26500	2.27	-47.42	≤-17.73	PASS
		2441	Reference	2.72	2.72	---	PASS
			30~1000	2.72	-60.2	≤-17.28	PASS
			1000~26500	2.72	-47.27	≤-17.28	PASS
		2480	Reference	2.93	2.93	---	PASS
			30~1000	2.93	-60.29	≤-17.07	PASS
			1000~26500	2.93	-47.69	≤-17.07	PASS
2DH1	Ant0	2402	Reference	0.66	0.66	---	PASS
			30~1000	0.66	-57.8	≤-19.34	PASS
			1000~26500	0.66	-47.69	≤-19.34	PASS
		2441	Reference	1.09	1.09	---	PASS
			30~1000	1.09	-60.96	≤-18.91	PASS
			1000~26500	1.09	-47.35	≤-18.91	PASS
		2480	Reference	1.37	1.37	---	PASS
			30~1000	1.37	-59.35	≤-18.63	PASS
			1000~26500	1.37	-47.55	≤-18.63	PASS
3DH1	Ant0	2402	Reference	0.80	0.80	---	PASS
			30~1000	0.80	-60.09	≤-19.2	PASS
			1000~26500	0.80	-47.96	≤-19.2	PASS
		2441	Reference	1.23	1.23	---	PASS
			30~1000	1.23	-54.09	≤-18.77	PASS
			1000~26500	1.23	-47.45	≤-18.77	PASS
		2480	Reference	1.49	1.49	---	PASS
			30~1000	1.49	-60.46	≤-18.51	PASS
			1000~26500	1.49	-46.9	≤-18.51	PASS

Test Graphs

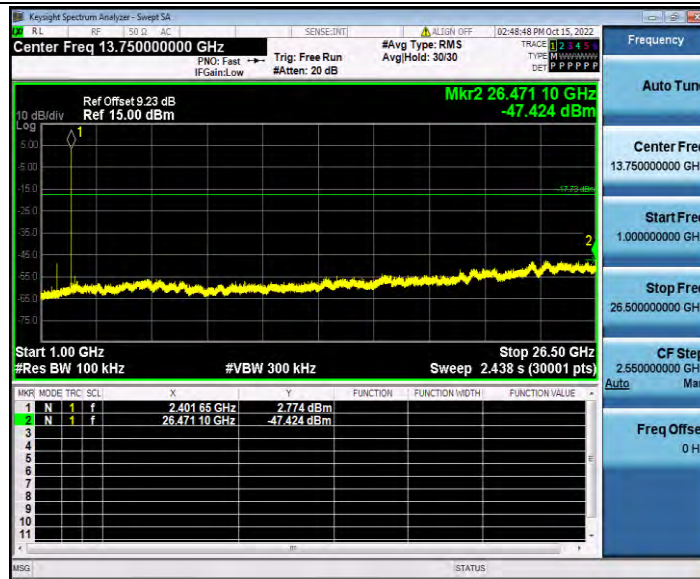
DH1_Ant0_2402_0~Reference



DH1_Ant0_2402_30~1000



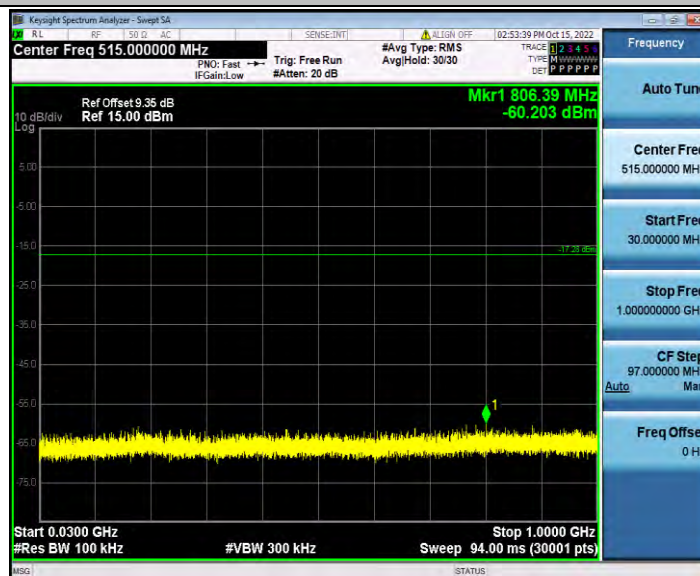
DH1_Ant0_2402_1000~26500



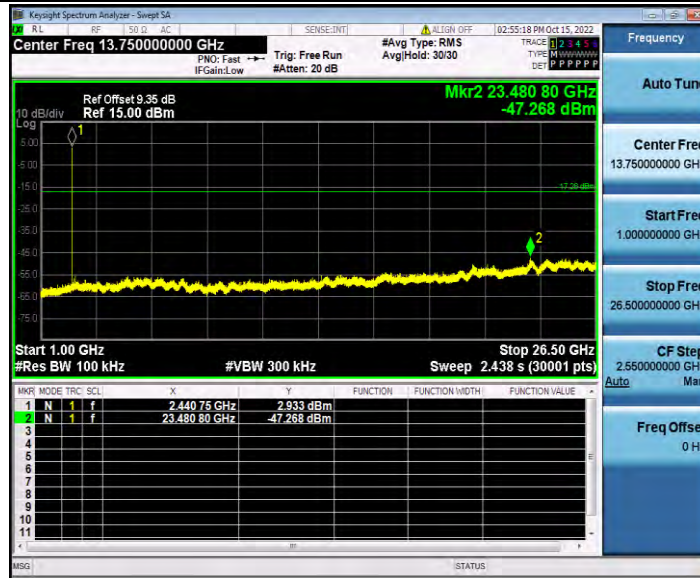
DH1_Ant0_2441_0~Reference



DH1_Ant0_2441_30~1000



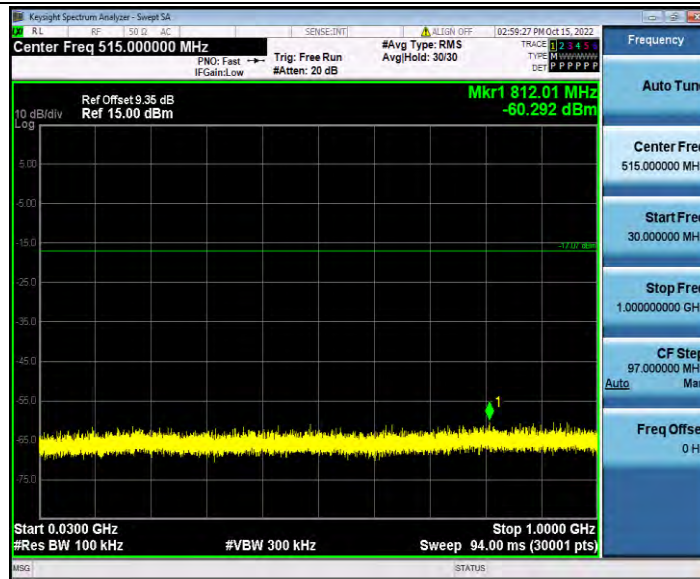
DH1_Ant0_2441_1000~26500



DH1_Ant0_2480_0~Reference



DH1_Ant0_2480_30~1000



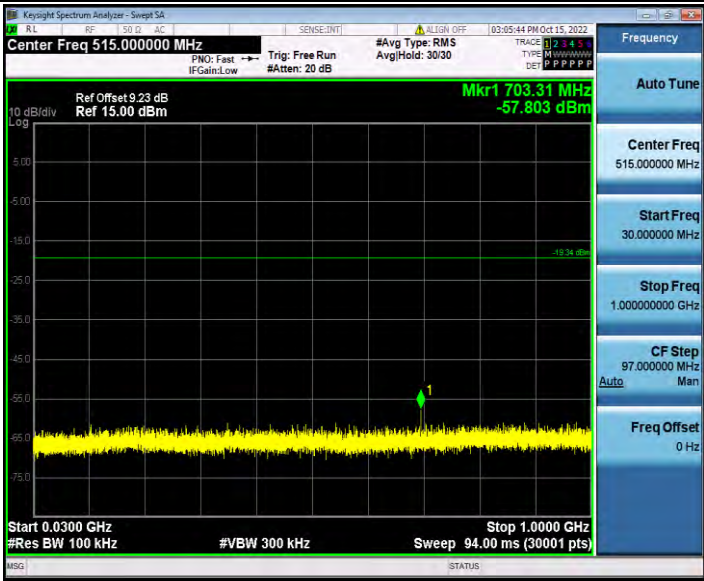
DH1_Ant0_2480_1000~26500



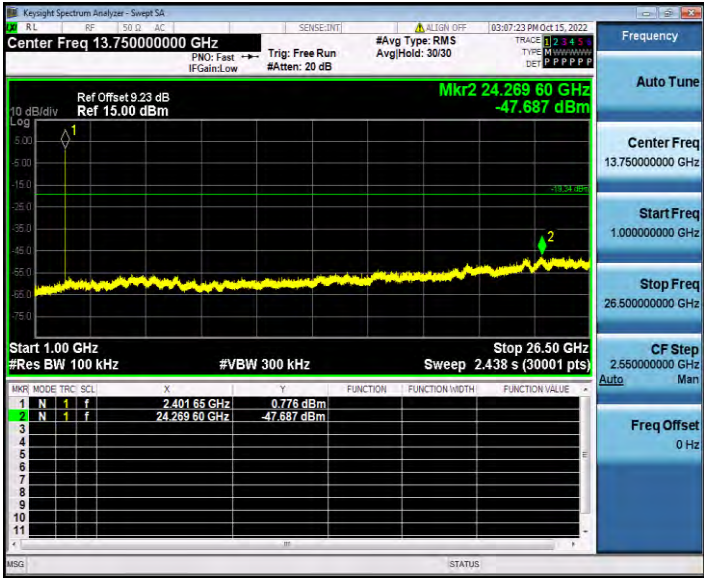
2DH1_Ant0_2402_0~Reference



2DH1_Ant0_2402_30~1000



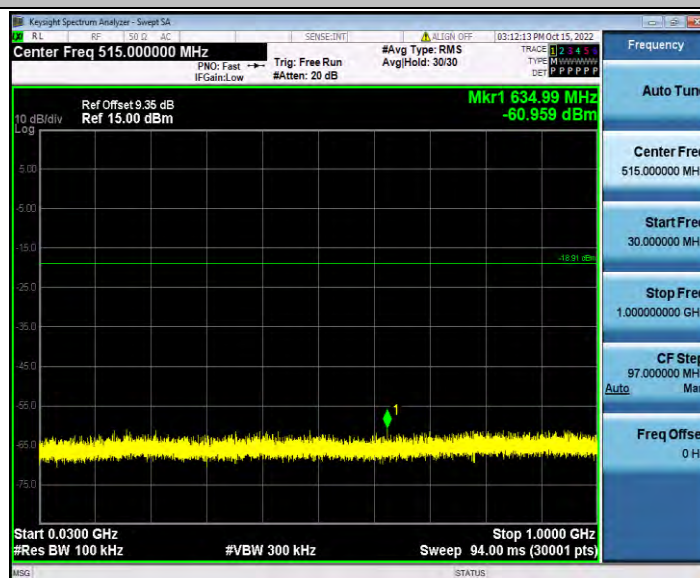
2DH1_Ant0_2402_1000~26500



2DH1_Ant0_2441_0~Reference



2DH1_Ant0_2441_30~1000



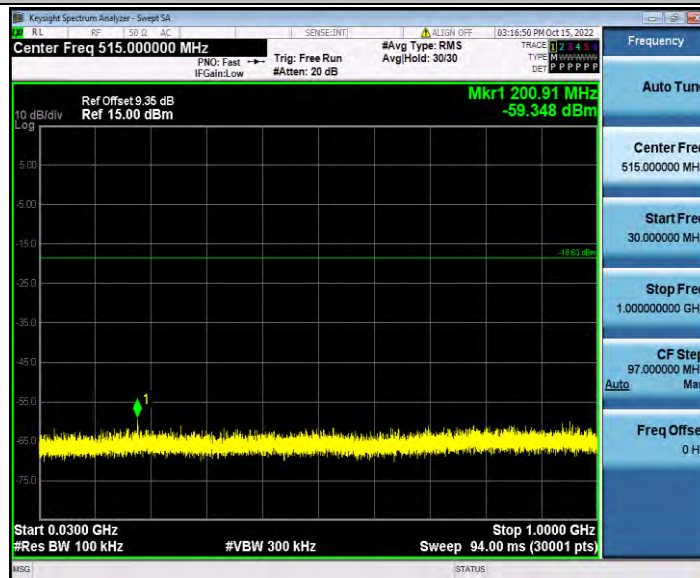
2DH1 Ant0 2441 1000~26500



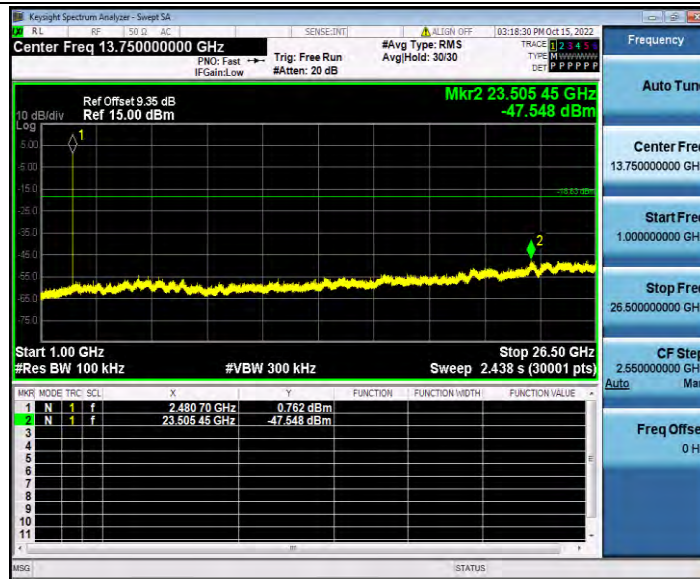
2DH1_Ant0_2480_0~Reference



2DH1_Ant0_2480_30~1000



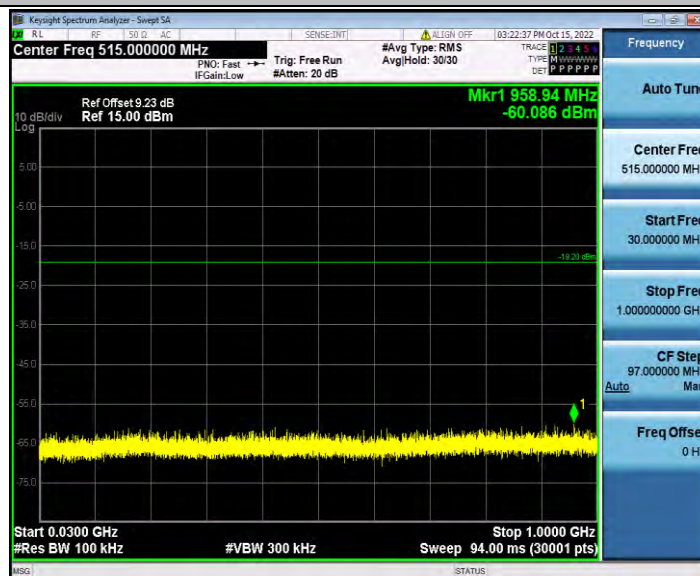
2DH1_Ant0_2480_1000~26500



3DH1_Ant0_2402_0~Reference



3DH1_Ant0_2402_30~1000



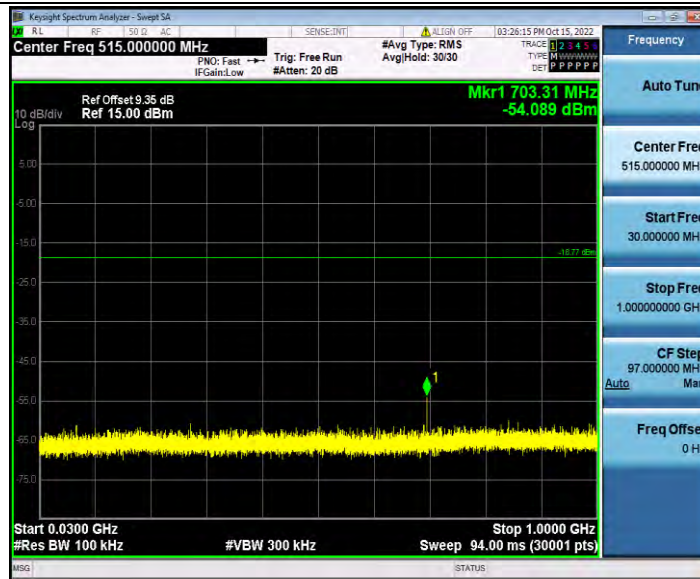
3DH1_Ant0_2402_1000~26500



3DH1_Ant0_2441_0~Reference



3DH1_Ant0_2441_30~1000



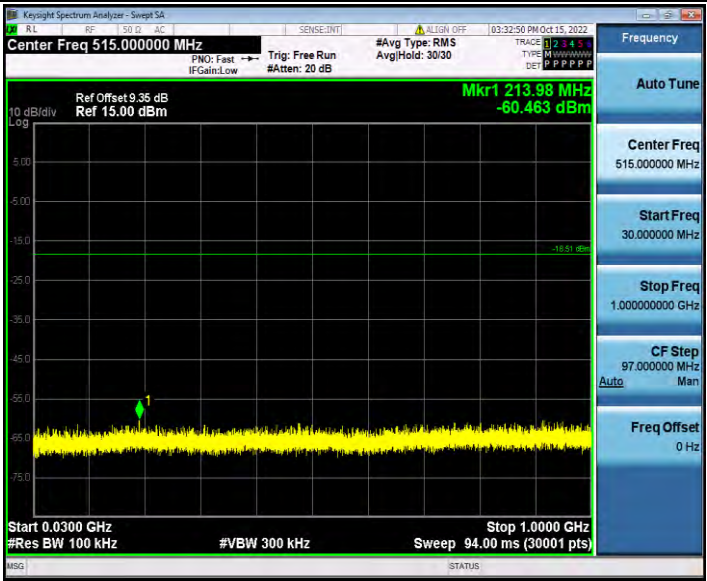
3DH1_Ant0_2441_1000~26500



3DH1_Ant0_2480_0~Reference



3DH1_Ant0_2480_30~1000



3DH1_Ant0_2480_1000~26500

