

<b>Case No. :</b> <u>GTS20231018011-1-38</u>
<b>Ambient Condition:</b> <u>23</u> °C, <u>48</u> %RH, Atmos100.1Kpa,
<b>Test Date:</b> <u>2023.12.18</u> <b>Test Engineer:</b> <u>Evan ouyang</u>

## Appendix A.1: 20dB Emission Bandwidth

### Test Result

Test Mode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant2	2402	0.834	2401.583	2402.417	---	---
		2441	0.768	2440.607	2441.375	---	---
		2480	0.786	2479.613	2480.399	---	---
2DH1	Ant2	2402	1.254	2401.376	2402.630	---	---
		2441	1.212	2440.379	2441.591	---	---
		2480	1.209	2479.412	2480.621	---	---
3DH1	Ant2	2402	1.227	2401.406	2402.633	---	---
		2441	1.218	2440.403	2441.621	---	---
		2480	1.206	2479.418	2480.624	---	---

## Test Graphs



DH1\_Ant2\_2402



DH1\_Ant2\_2441



DH1\_Ant2\_2480



2DH1\_Ant2\_2402



2DH1\_Ant2\_2441



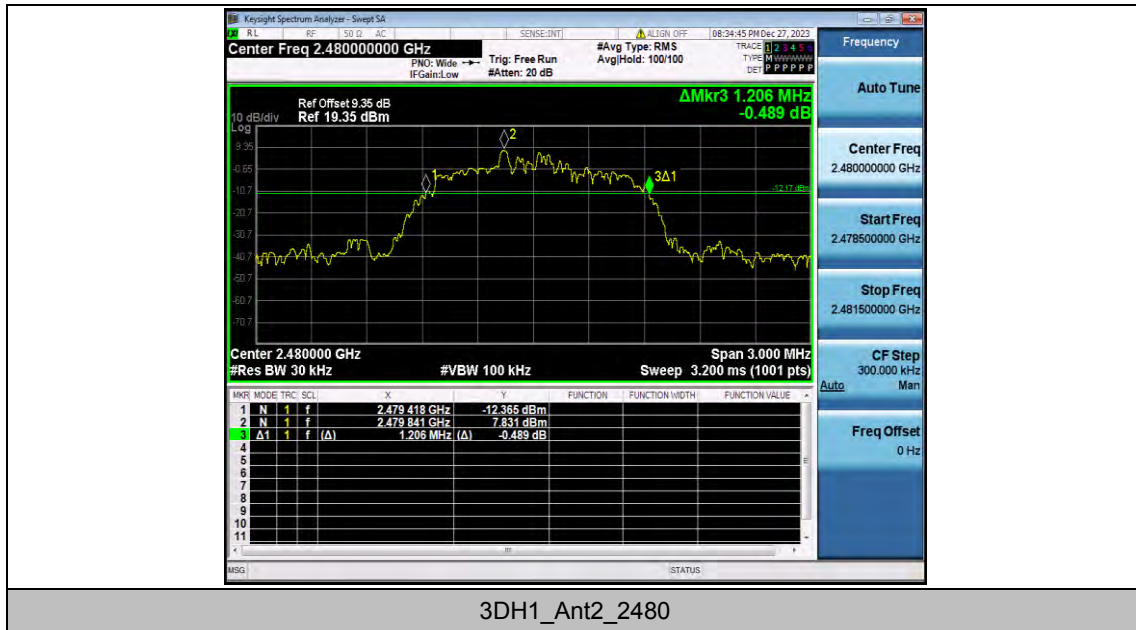
2DH1\_Ant2\_2480



3DH1\_Ant2\_2402



3DH1\_Ant2\_2441



3DH1\_Ant2\_2480

## Appendix A.2: Occupied Channel Bandwidth

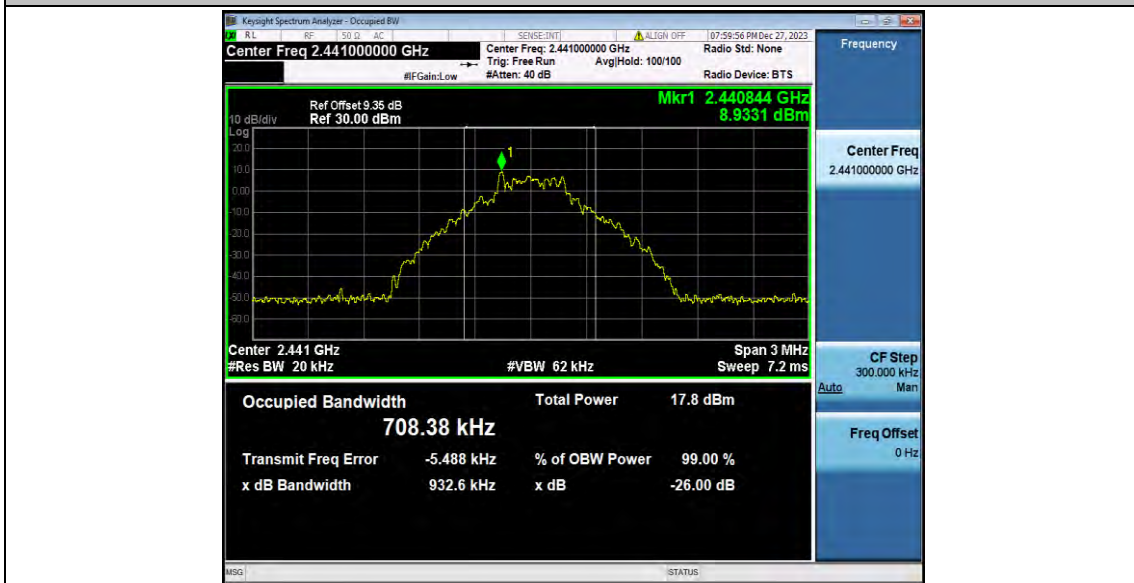
### Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant2	2402	0.69403	2401.652	2402.346	---	---
		2441	0.70838	2440.640	2441.349	---	---
		2480	0.72022	2479.634	2480.355	---	---
2DH1	Ant2	2402	1.1401	2401.424	2402.564	---	---
		2441	1.1325	2440.438	2441.570	---	---
		2480	1.1468	2479.423	2480.570	---	---
3DH1	Ant2	2402	1.1330	2401.446	2402.579	---	---
		2441	1.1330	2440.445	2441.578	---	---
		2480	1.1311	2479.447	2480.578	---	---

## Test Graphs

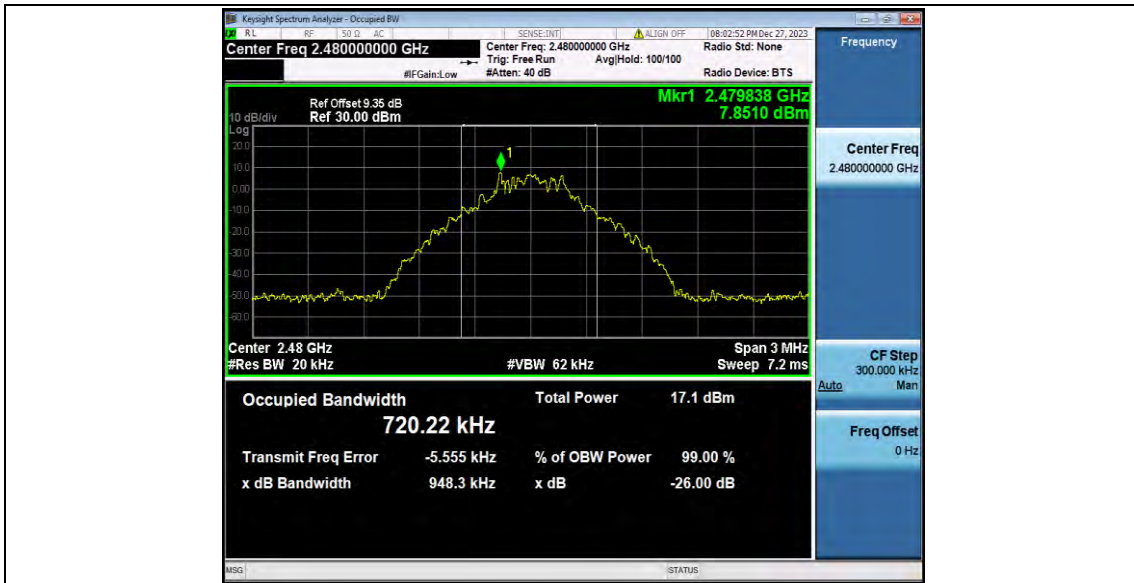


DH1\_Ant2\_2402



DH1\_Ant2\_2441





DH1\_Ant2\_2480



2DH1\_Ant2\_2402



2DH1\_Ant2\_2441



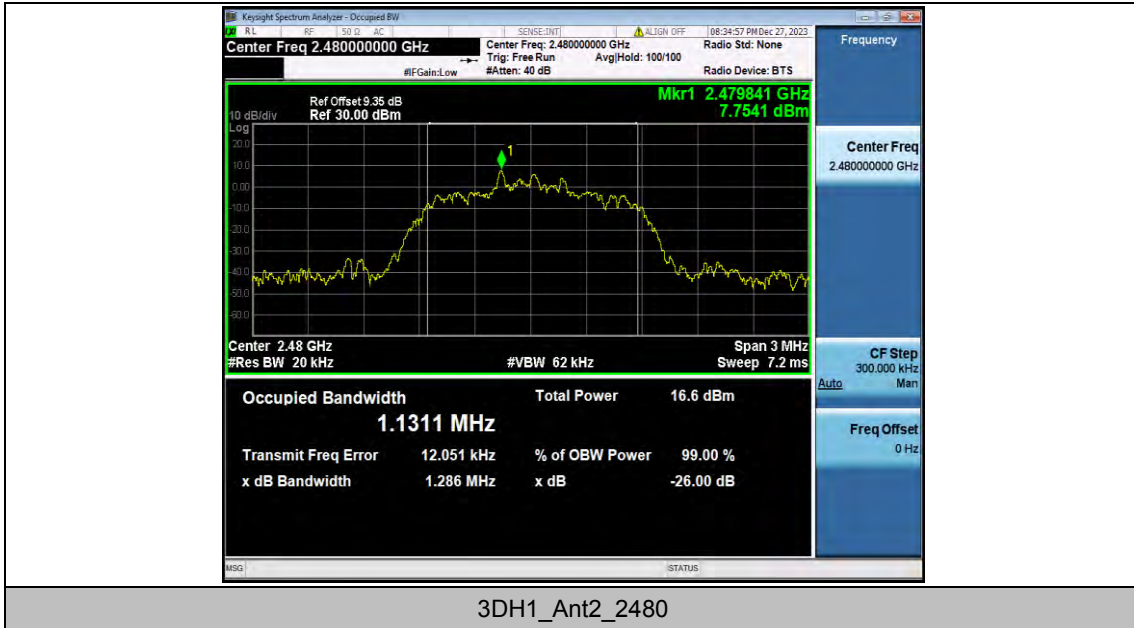
2DH1\_Ant2\_2480



3DH1\_Ant2\_2402



3DH1\_Ant2\_2441



3DH1\_Ant2\_2480

## Appendix A.3: Maximum conducted output power

### Test Result Peak

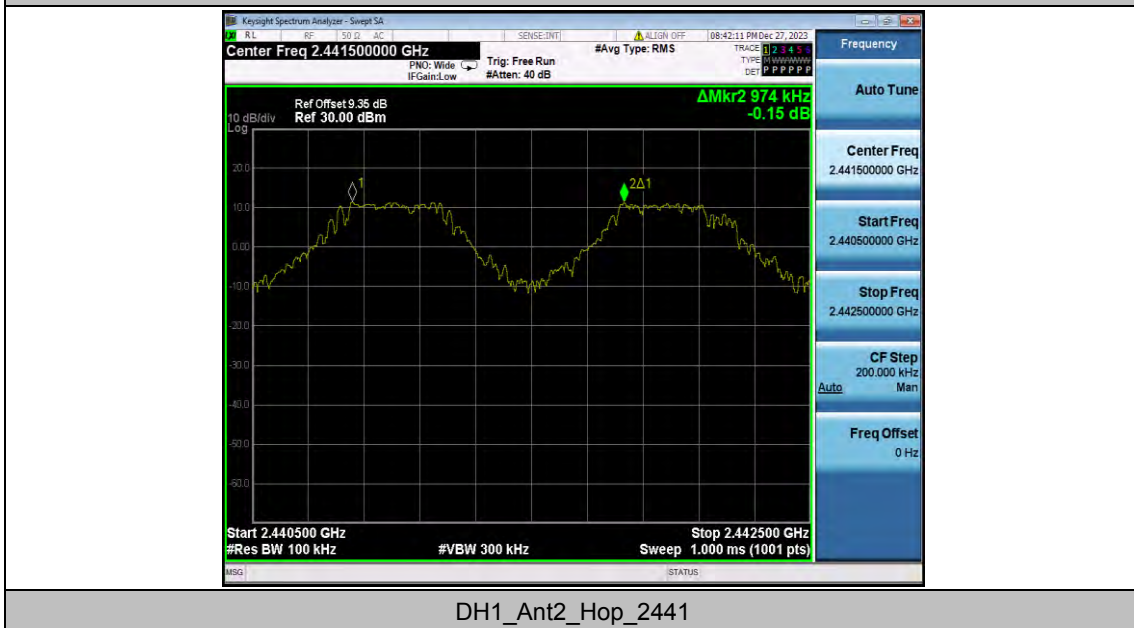
Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant2	2402	10.99	≤30.00	PASS
		2441	11.83	≤30.00	PASS
		2480	11.66	≤30.00	PASS
2DH1	Ant2	2402	10.92	≤20.97	PASS
		2441	11.71	≤20.97	PASS
		2480	11.55	≤20.97	PASS
3DH1	Ant2	2402	11	≤20.97	PASS
		2441	11.84	≤20.97	PASS
		2480	11.76	≤20.97	PASS

## Appendix A.4: Carrier frequency separation

### Test Result

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant2	Hop_2402	1.008	$\geq 0.834$	PASS
		Hop_2441	0.974	$\geq 0.834$	PASS
		Hop_2480	1.002	$\geq 0.834$	PASS
2DH1	Ant2	Hop_2402	1.162	$\geq 0.836$	PASS
		Hop_2441	0.998	$\geq 0.836$	PASS
		Hop_2480	1.004	$\geq 0.836$	PASS
3DH1	Ant2	Hop_2402	1.002	$\geq 0.818$	PASS
		Hop_2441	0.994	$\geq 0.818$	PASS
		Hop_2480	0.972	$\geq 0.818$	PASS

## Test Graphs





DH1\_Ant2\_Hop\_2480



2DH1\_Ant2\_Hop\_2402

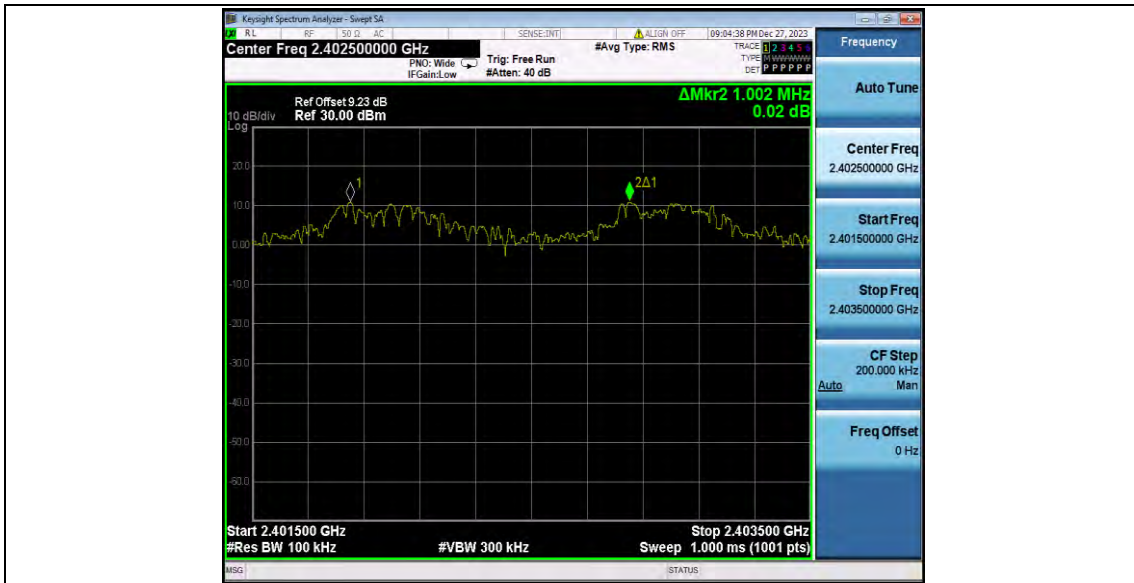




2DH1\_Ant2\_Hop\_2441



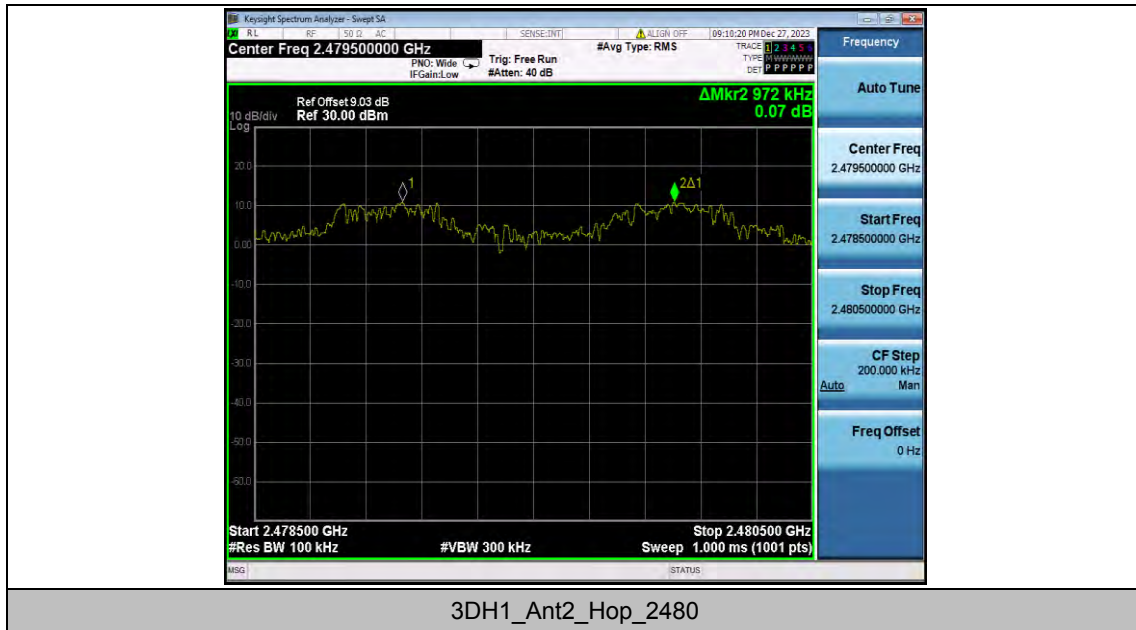
2DH1\_Ant2\_Hop\_2480



3DH1\_Ant2\_Hop\_2402



3DH1\_Ant2\_Hop\_2441



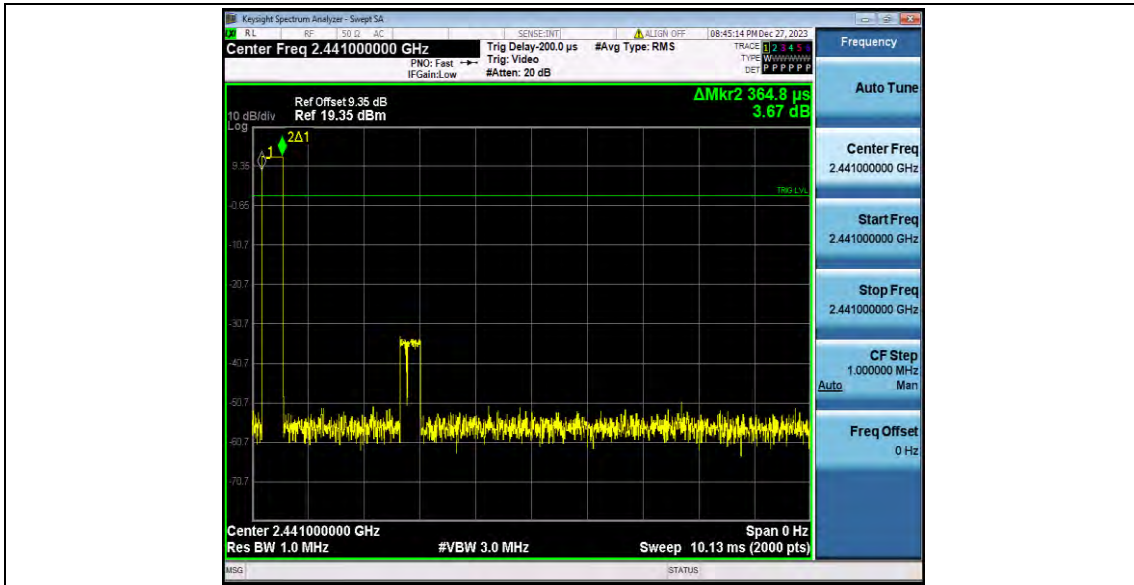
3DH1\_Ant2\_Hop\_2480

## Appendix A.5: Time of occupancy

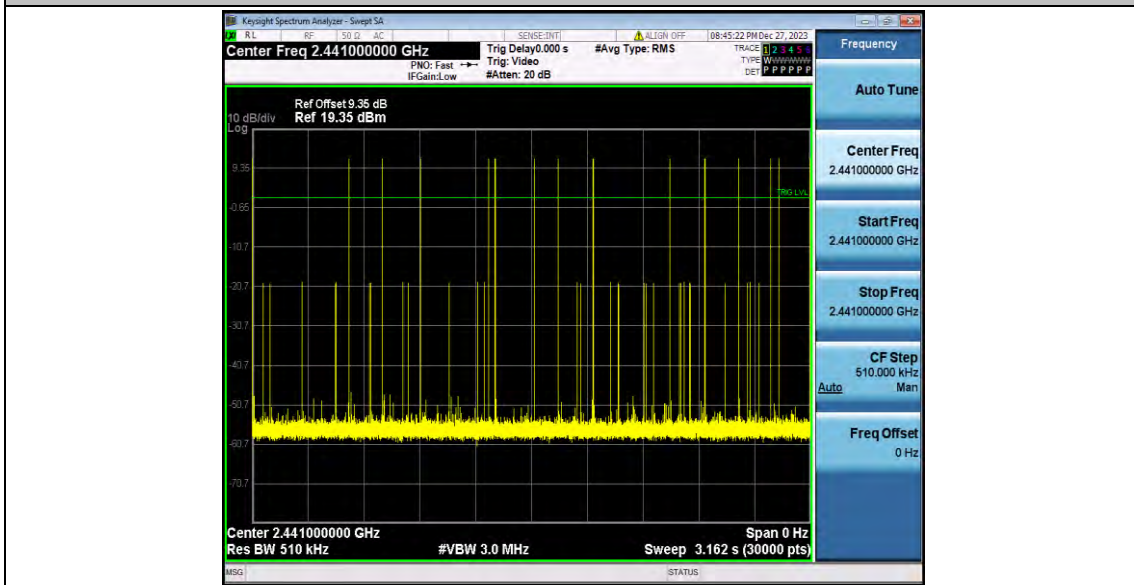
### Test Result

Test Mode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant2	Hop	0.36	150	0.055	≤0.4	PASS
DH3	Ant2	Hop	1.63	150	0.244	≤0.4	PASS
DH5	Ant2	Hop	2.87	80	0.23	≤0.4	PASS
2DH1	Ant2	Hop	0.37	160	0.06	≤0.4	PASS
2DH3	Ant2	Hop	1.63	150	0.244	≤0.4	PASS
2DH5	Ant2	Hop	2.88	90	0.259	≤0.4	PASS
3DH1	Ant2	Hop	0.37	130	0.048	≤0.4	PASS
3DH3	Ant2	Hop	1.63	170	0.276	≤0.4	PASS
3DH5	Ant2	Hop	2.88	90	0.259	≤0.4	PASS

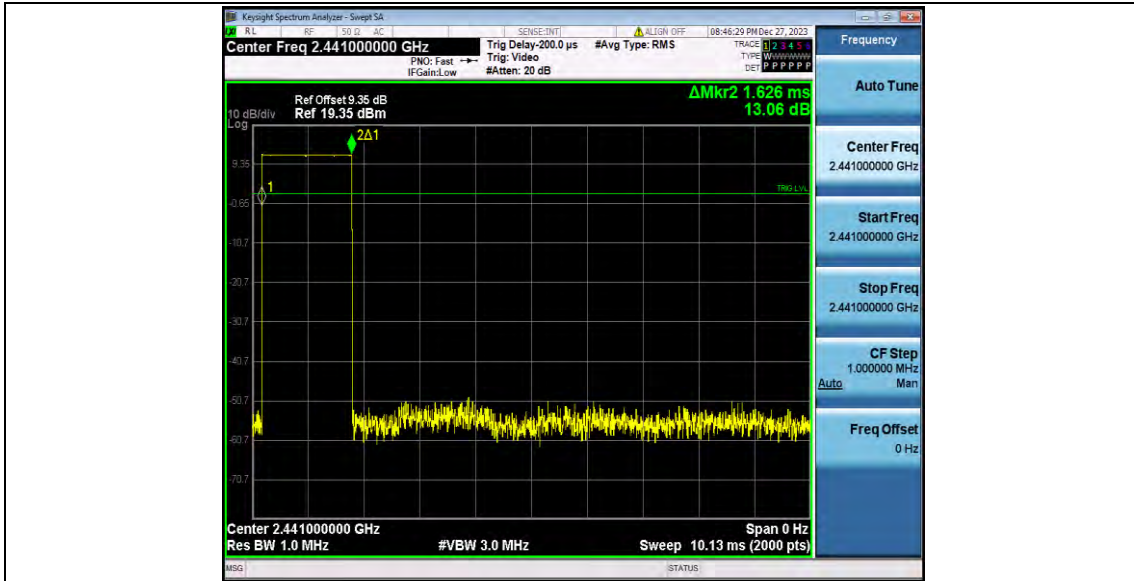
## Test Graphs



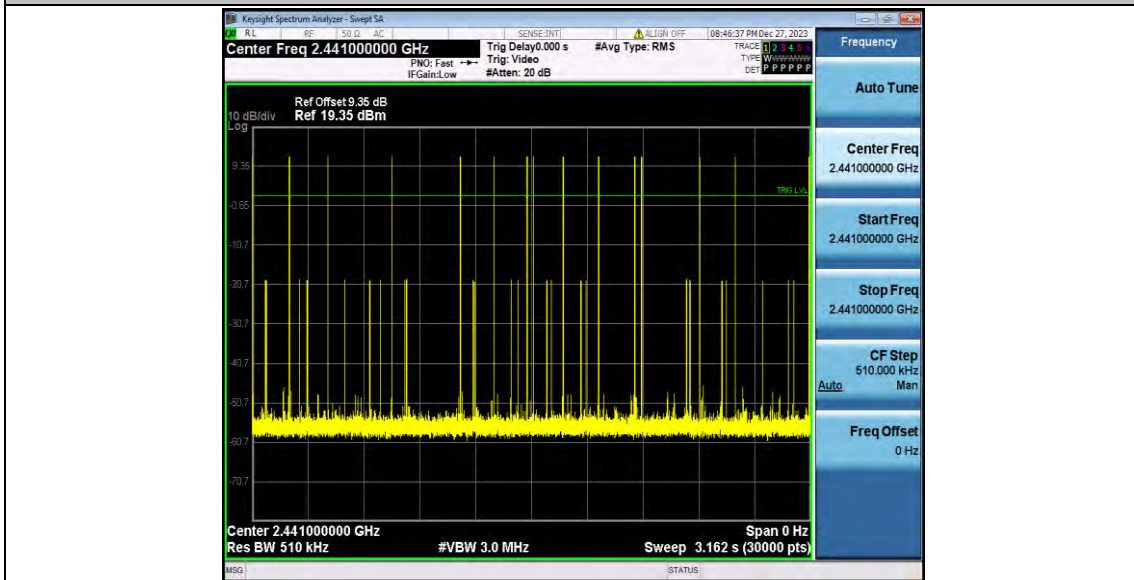
DH1\_Ant2\_Hop



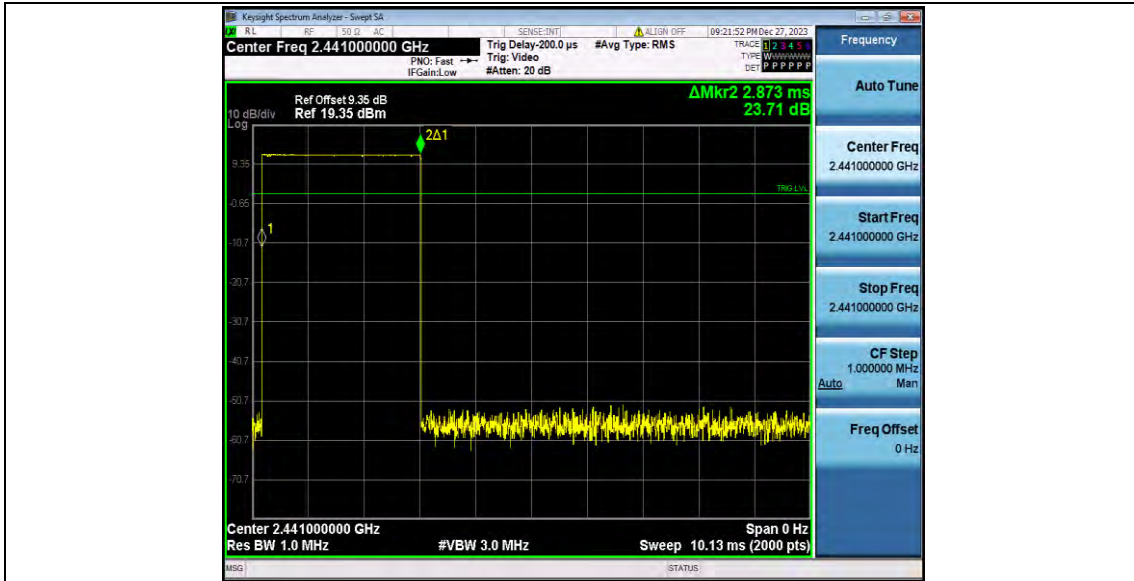
DH1\_Ant2\_Hop



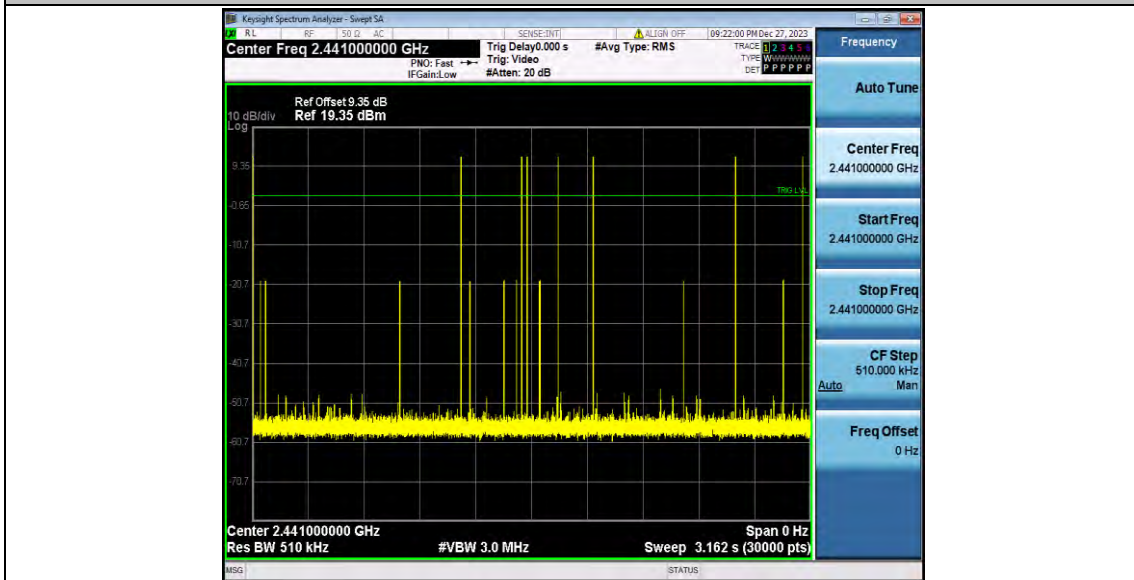
DH3\_Ant2\_Hop



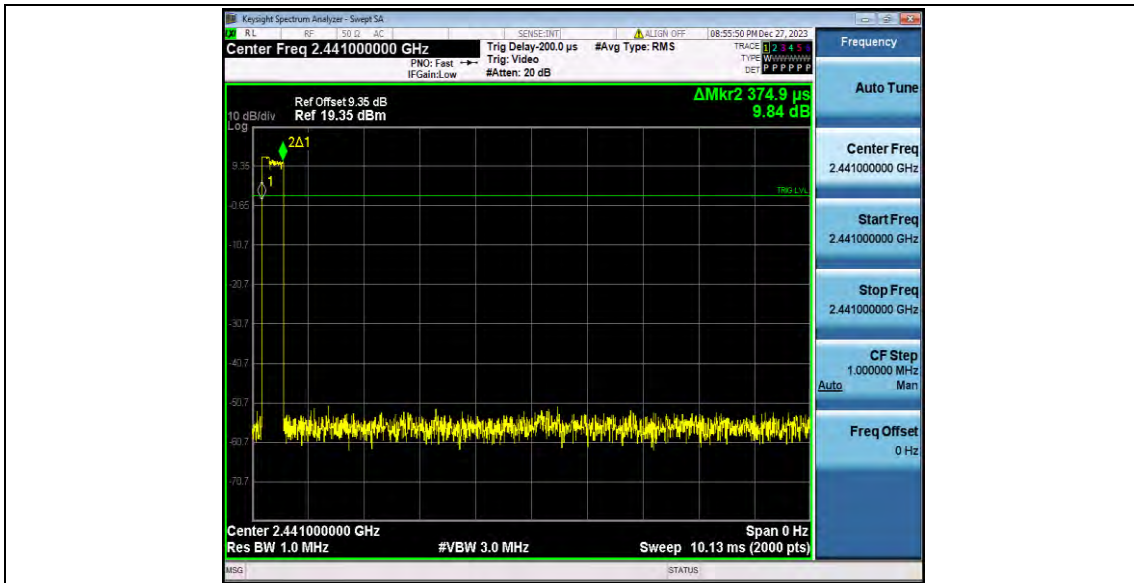
DH3\_Ant2\_Hop



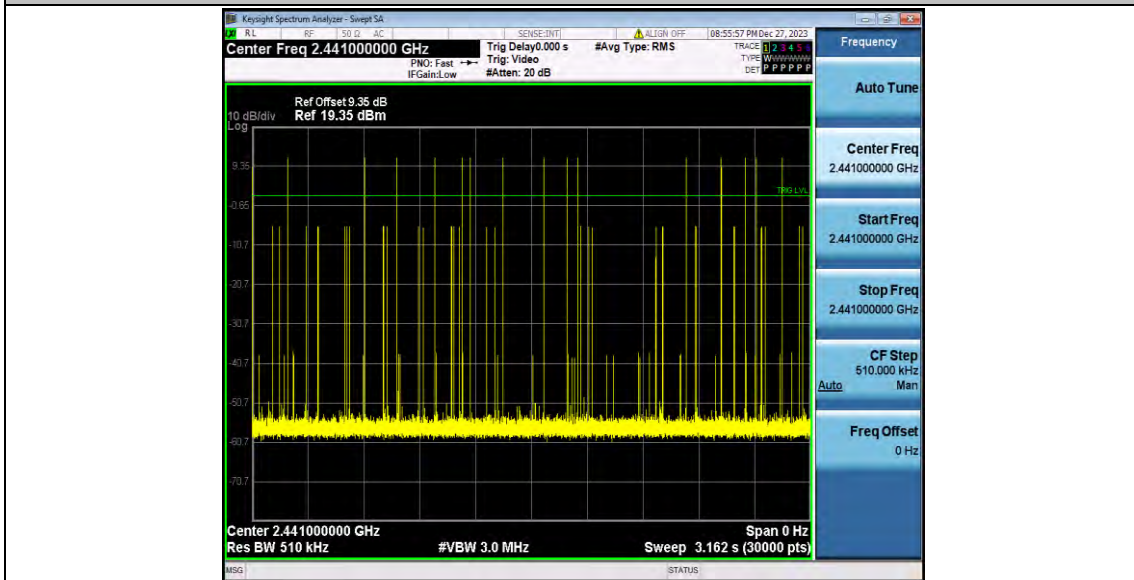
DH5\_Ant2\_Hop



DH5\_Ant2\_Hop

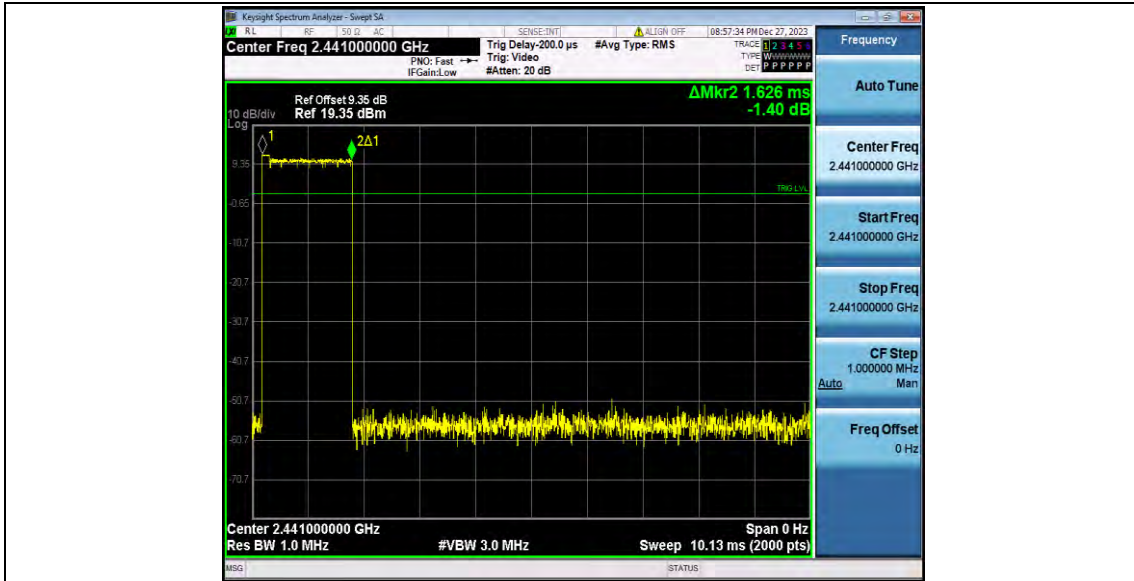


2DH1\_Ant2\_Hop

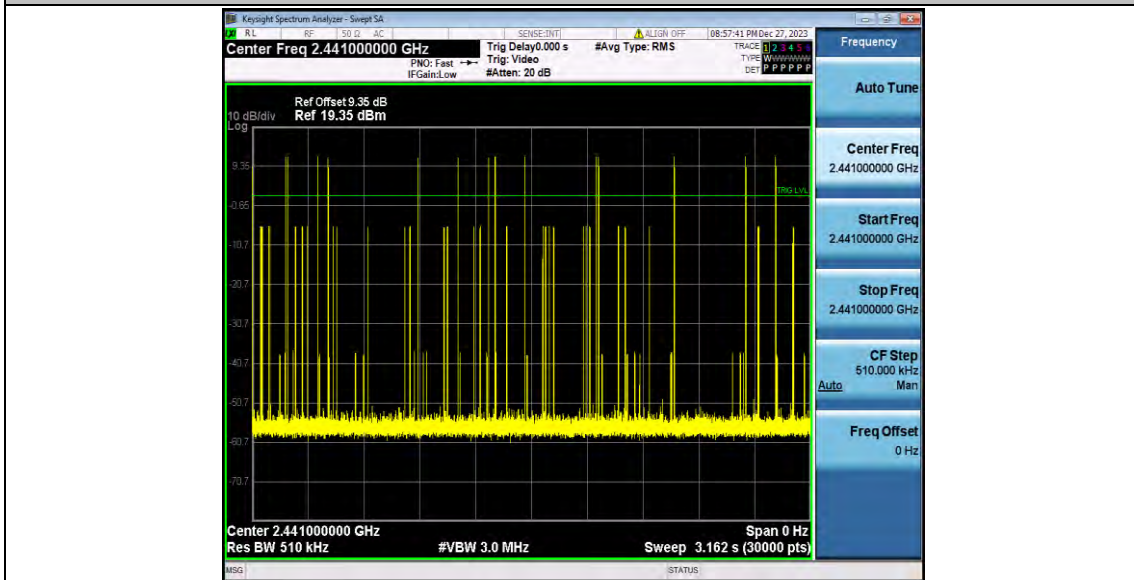


2DH1\_Ant2\_Hop

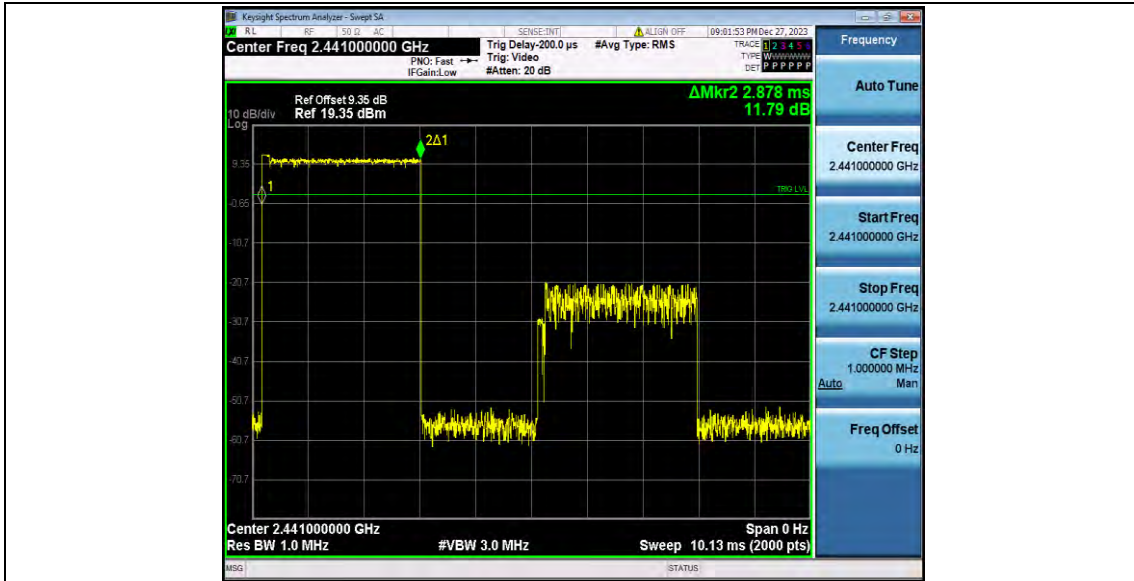




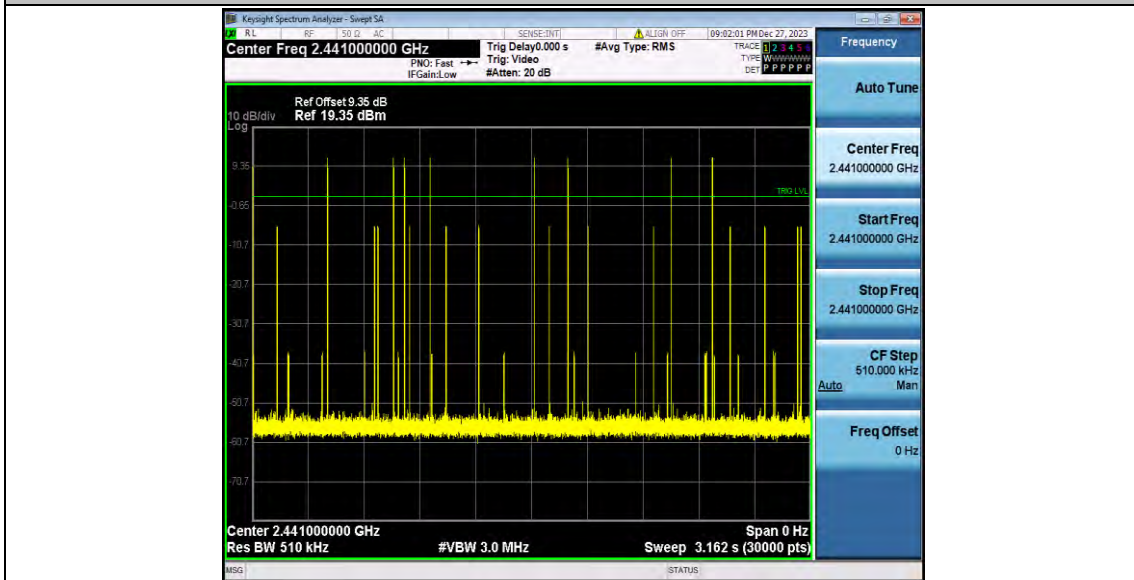
2DH3\_Ant2\_Hop



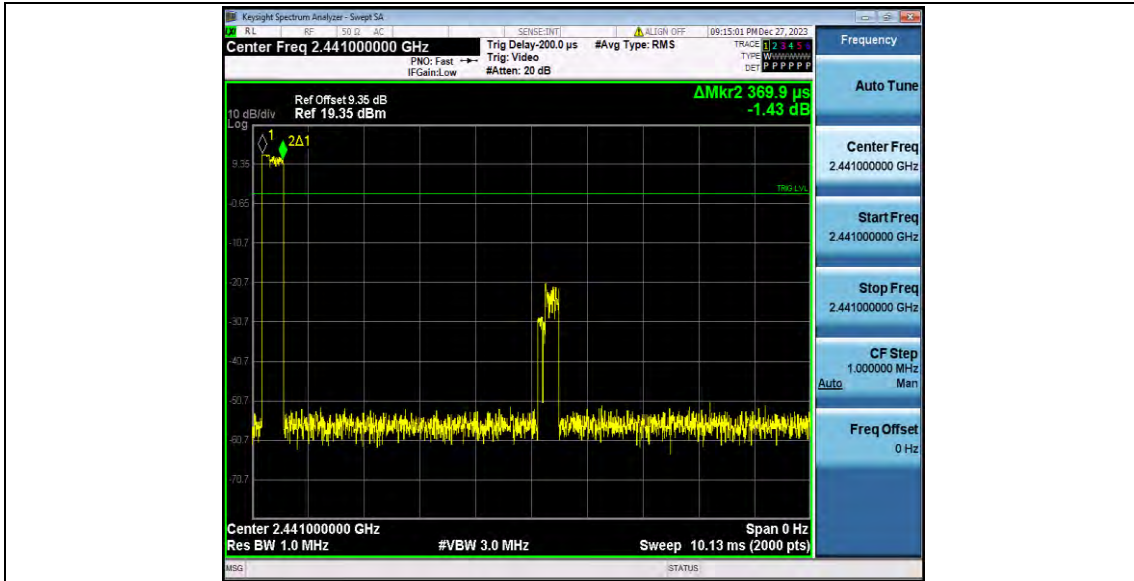
2DH3\_Ant2\_Hop



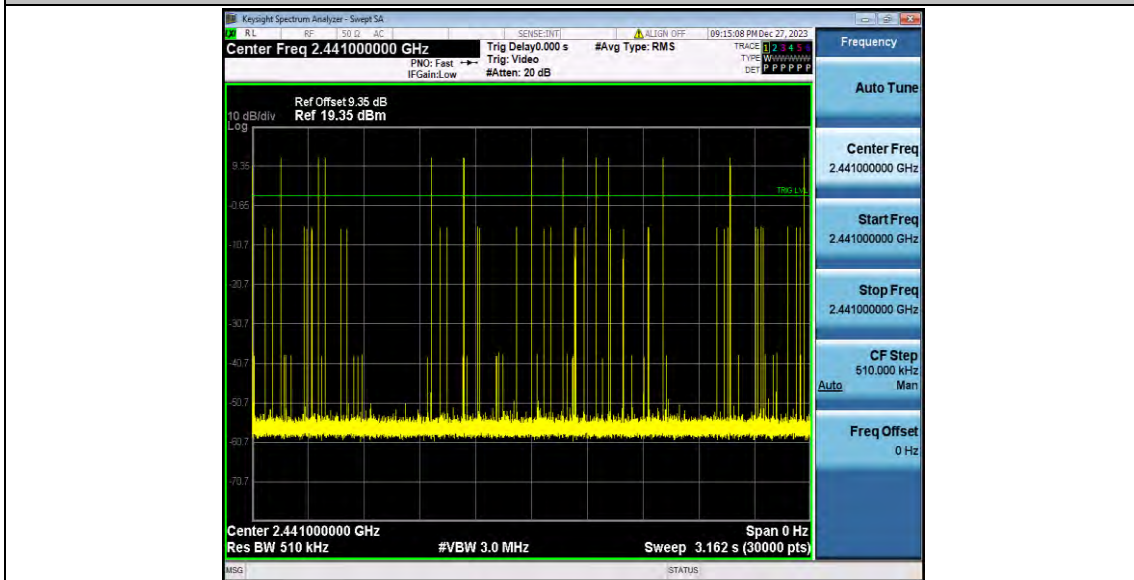
2DH5\_Ant2\_Hop



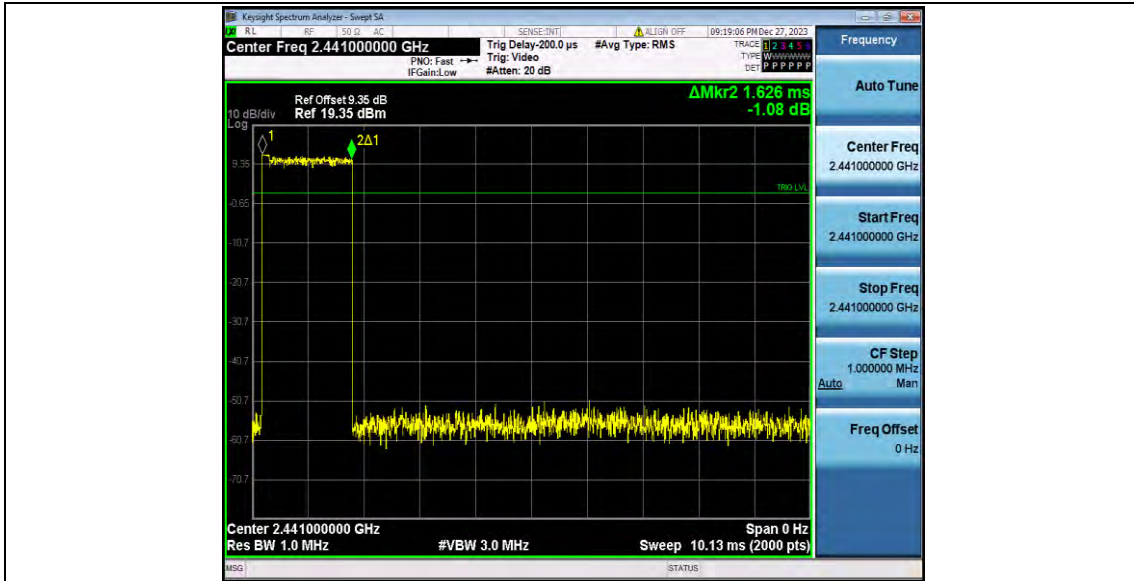
2DH5\_Ant2\_Hop



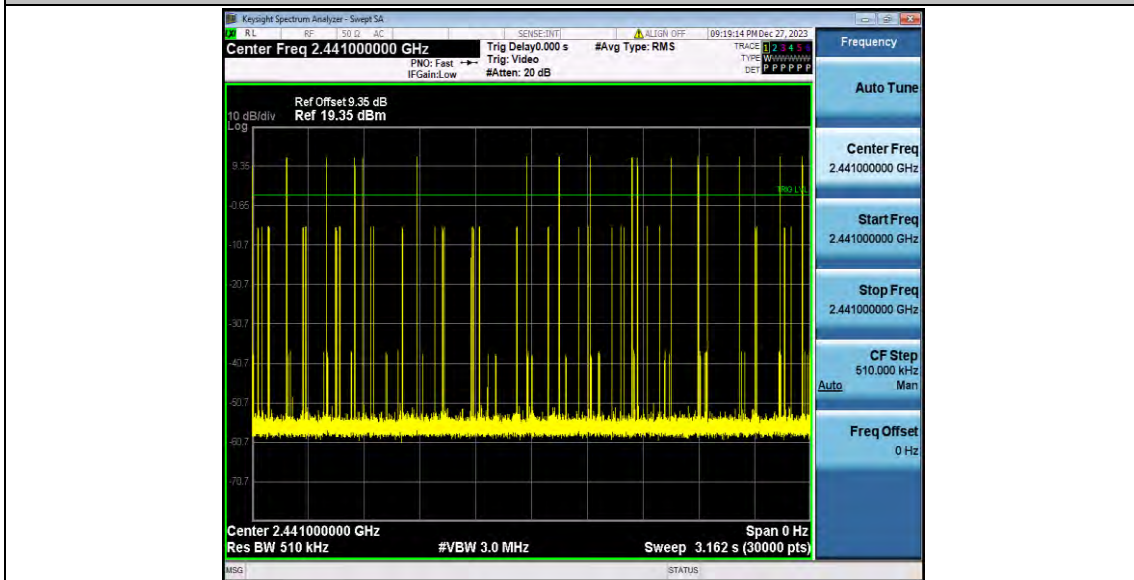
3DH1\_Ant2\_Hop



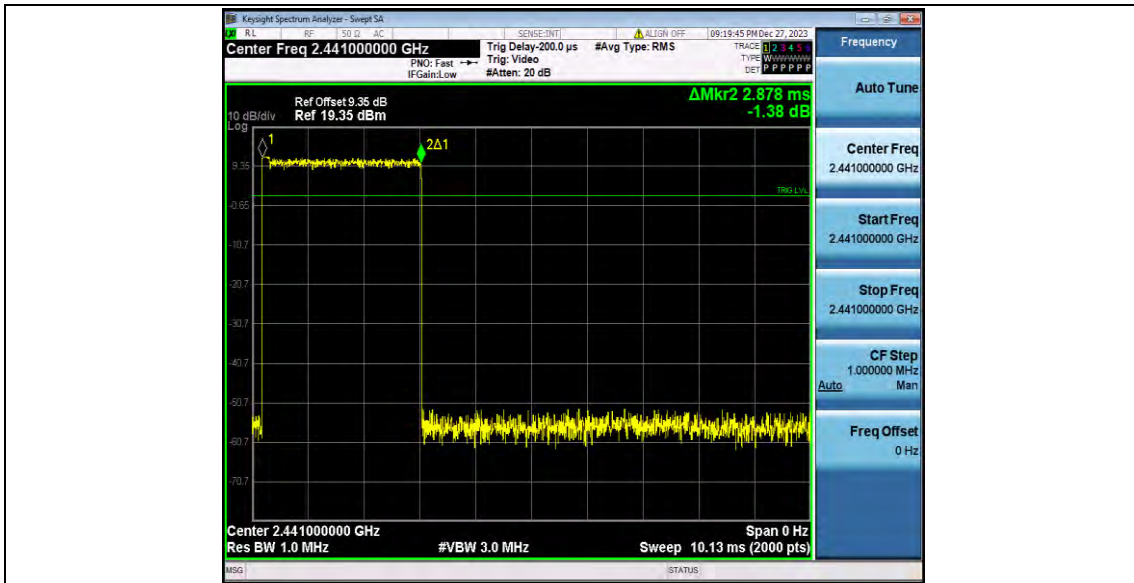
3DH1\_Ant2\_Hop



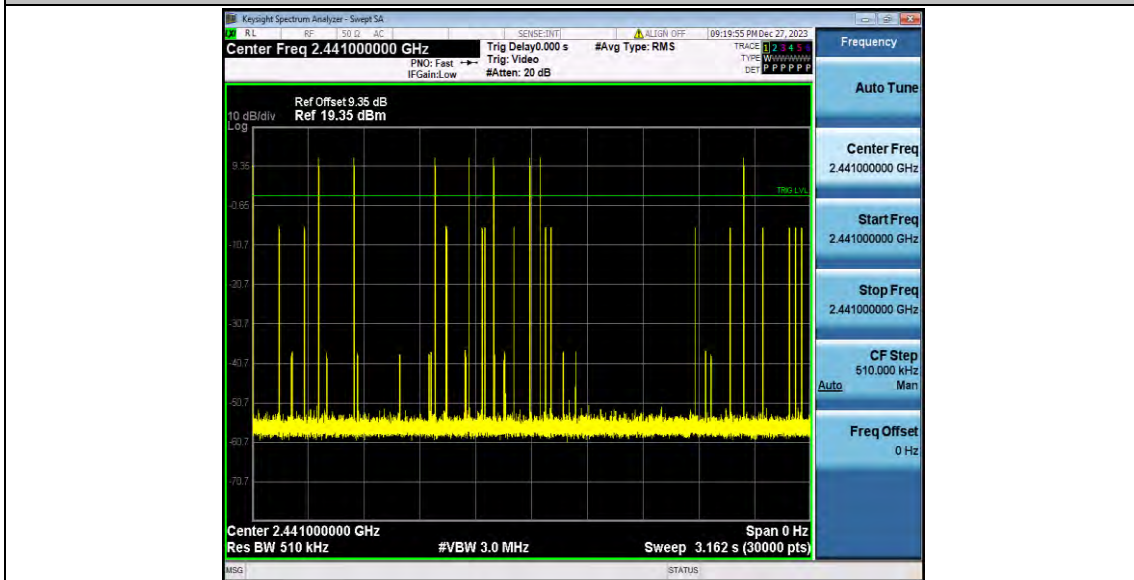
3DH3\_Ant2\_Hop



3DH3\_Ant2\_Hop



3DH5\_Ant2\_Hop



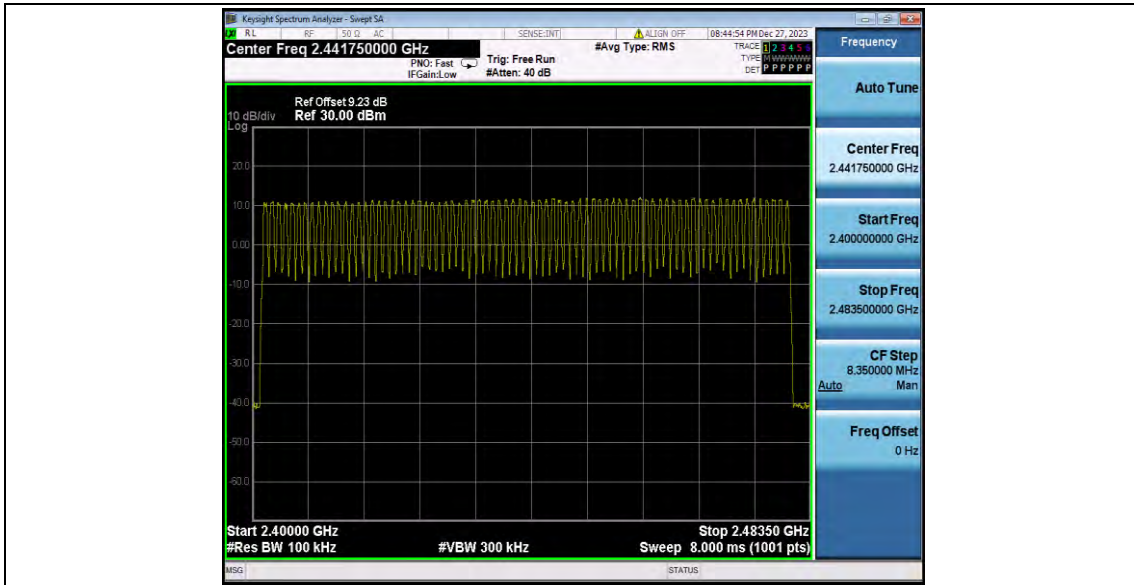
3DH5\_Ant2\_Hop

## Appendix A.6: Number of hopping channels

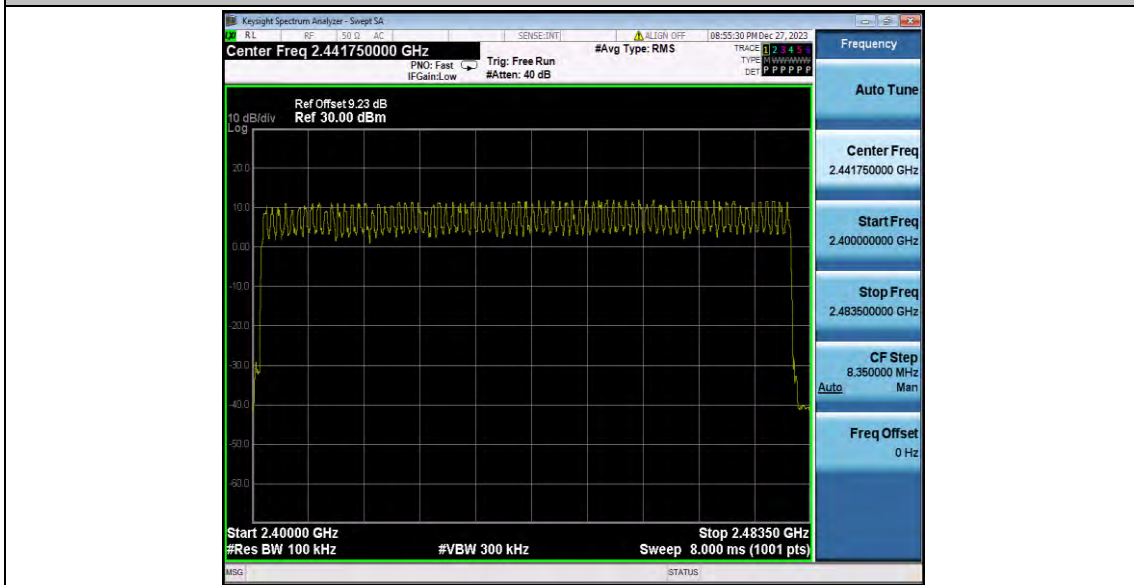
### Test Result

Test Mode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH1	Ant2	Hop	79	≥15	PASS
2DH1	Ant2	Hop	79	≥15	PASS
3DH1	Ant2	Hop	79	≥15	PASS

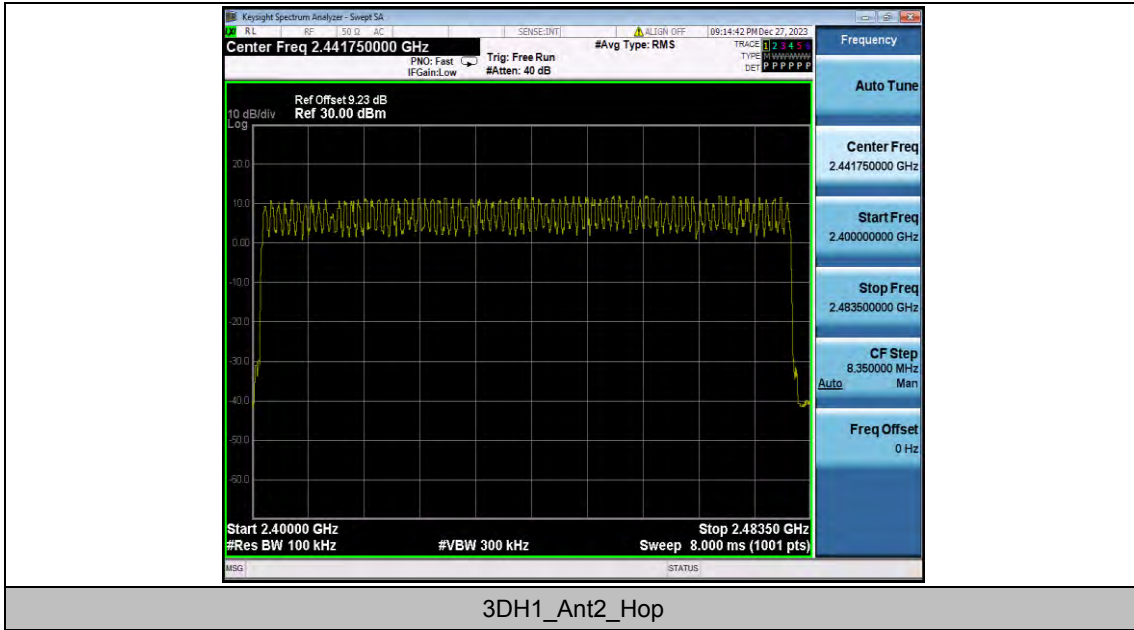
## Test Graphs



DH1\_Ant2\_Hop



2DH1\_Ant2\_Hop



3DH1\_Ant2\_Hop

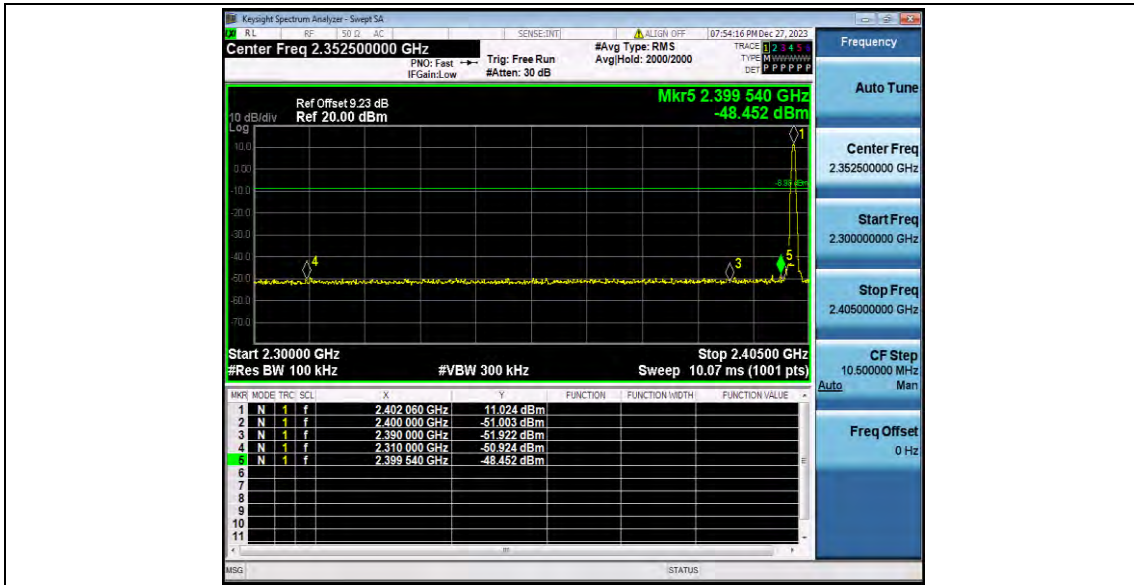


## Appendix A.7: Band edge measurements

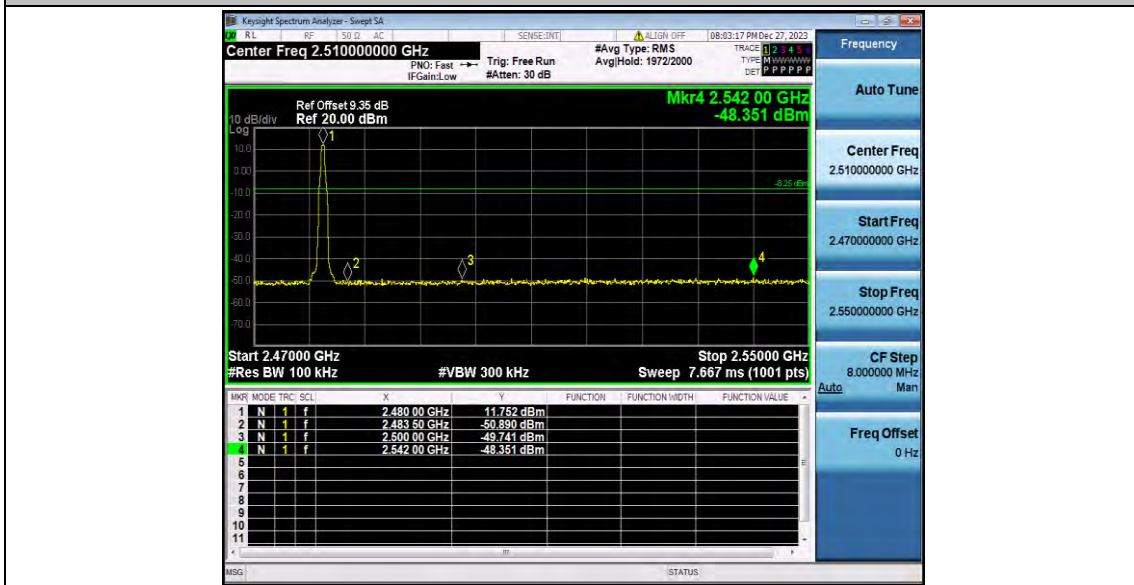
### Test Result

Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant2	Low	2402	11.02	-48.45	≤-8.98	PASS
		High	2480	11.75	-48.35	≤-8.25	PASS
		Low	Hop_2402	11.13	-49.26	≤-8.87	PASS
		High	Hop_2480	11.79	-47.89	≤-8.21	PASS
2DH1	Ant2	Low	2402	10.86	-49	≤-9.15	PASS
		High	2480	11.73	-48.57	≤-8.27	PASS
		Low	Hop_2402	10.83	-48.42	≤-9.17	PASS
		High	Hop_2480	11.48	-48.25	≤-8.52	PASS
3DH1	Ant2	Low	2402	10.84	-49.03	≤-9.16	PASS
		High	2480	11.62	-48.64	≤-8.38	PASS
		Low	Hop_2402	9.58	-48.79	≤-10.42	PASS
		High	Hop_2480	10.56	-48.95	≤-9.44	PASS

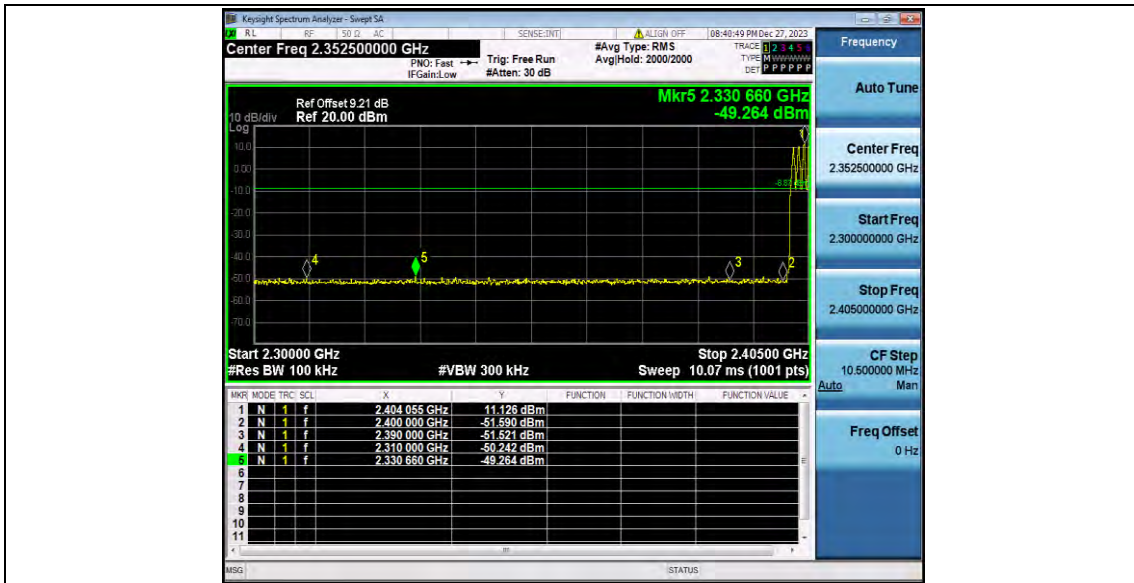
## Test Graphs



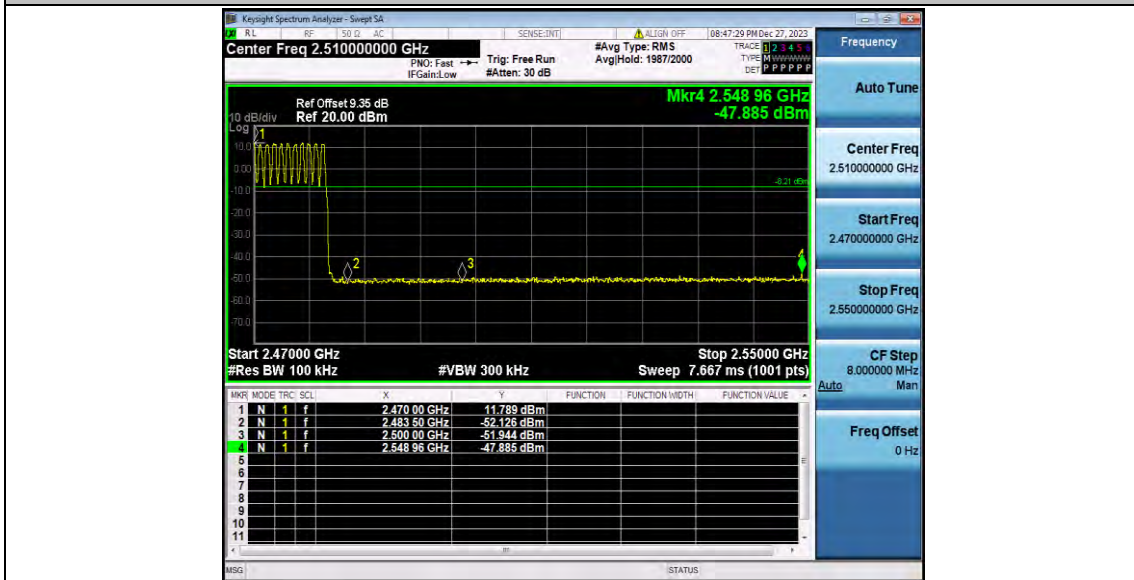
DH1\_Ant2\_Low\_2402



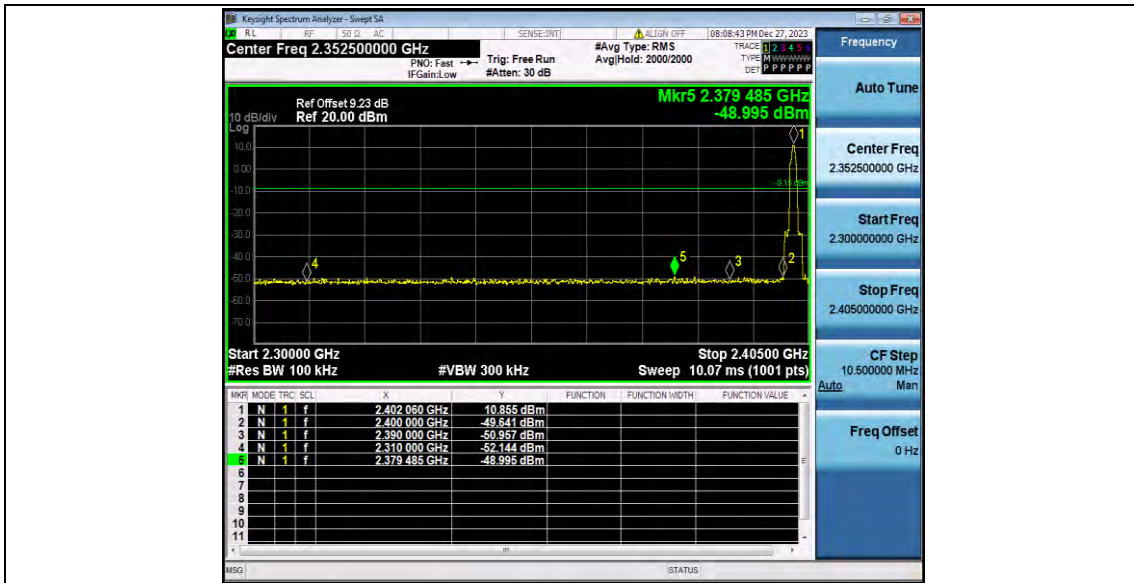
DH1\_Ant2\_High\_2480



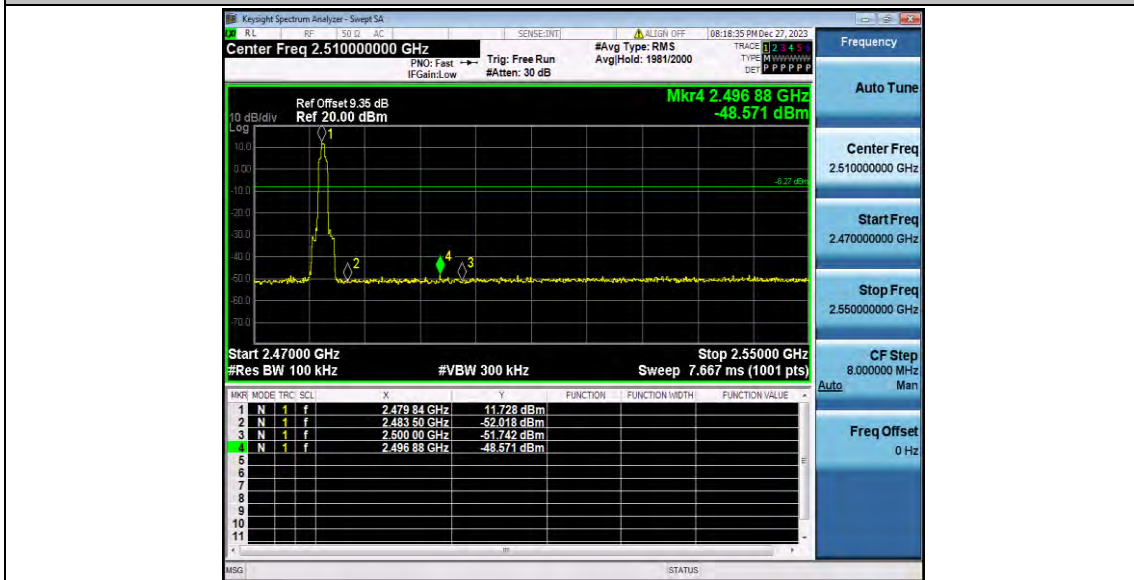
DH1\_Ant2\_Low\_Hop\_2402



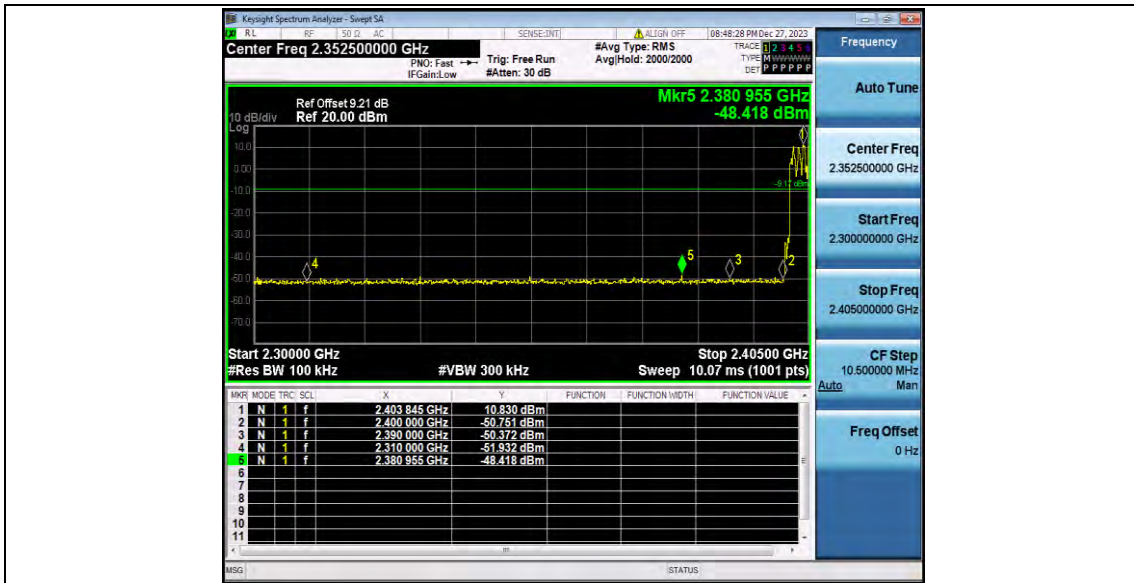
DH1\_Ant2\_High\_Hop\_2480



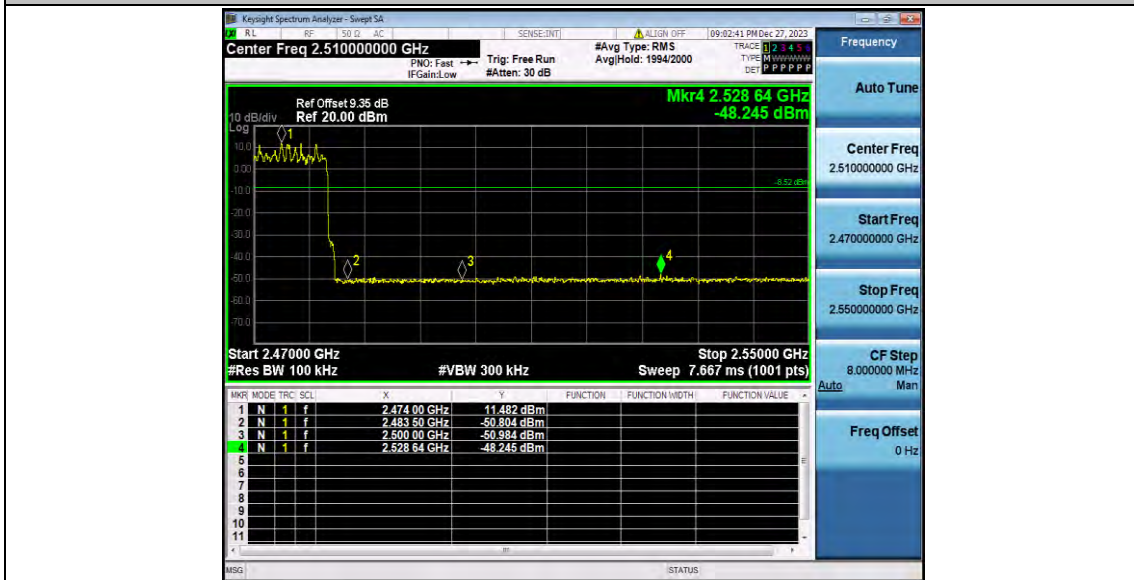
2Dh1\_Ant2\_Low\_2402



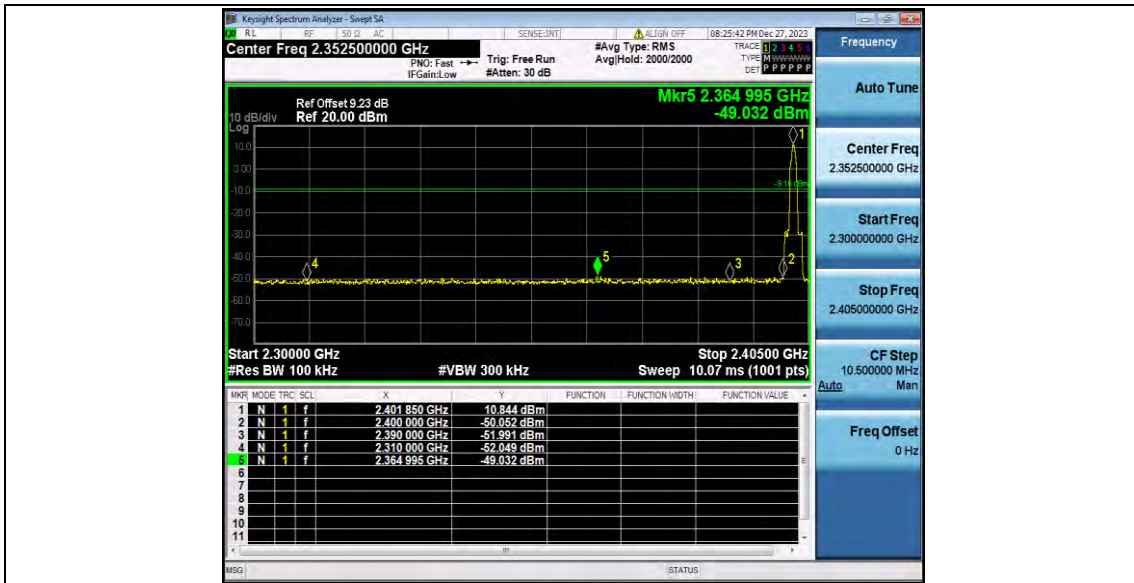
2Dh1\_Ant2\_High\_2480



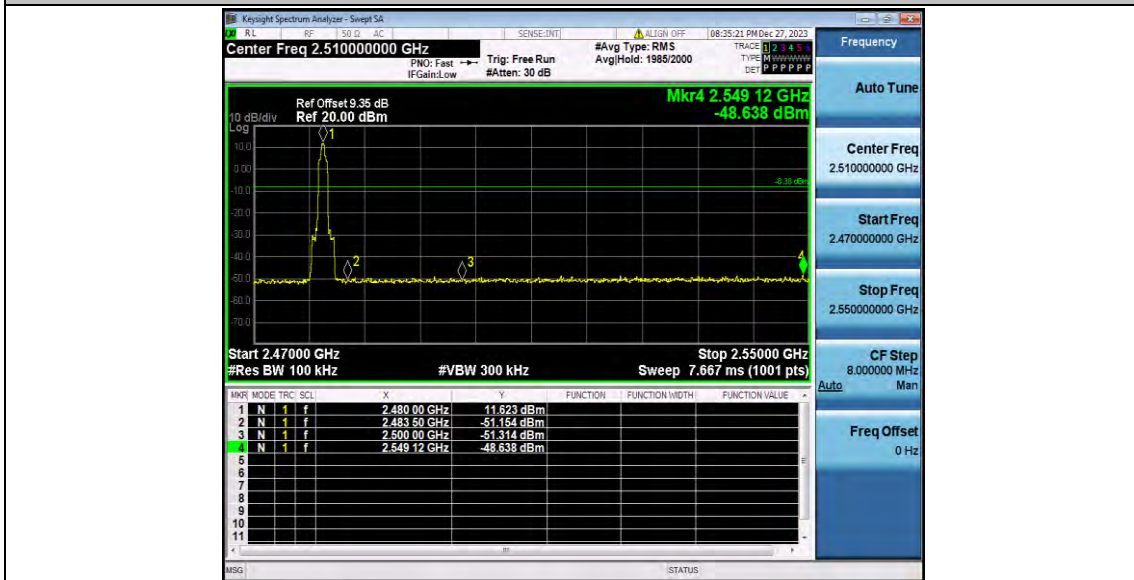
2DH1\_Ant2\_Low\_Hop\_2402



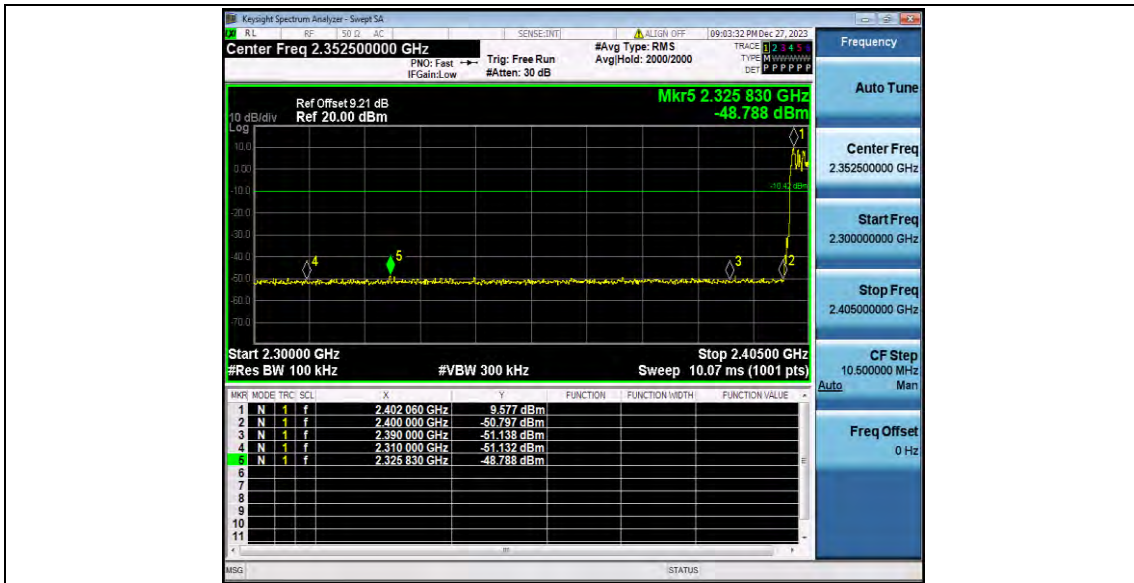
2DH1\_Ant2\_High\_Hop\_2480



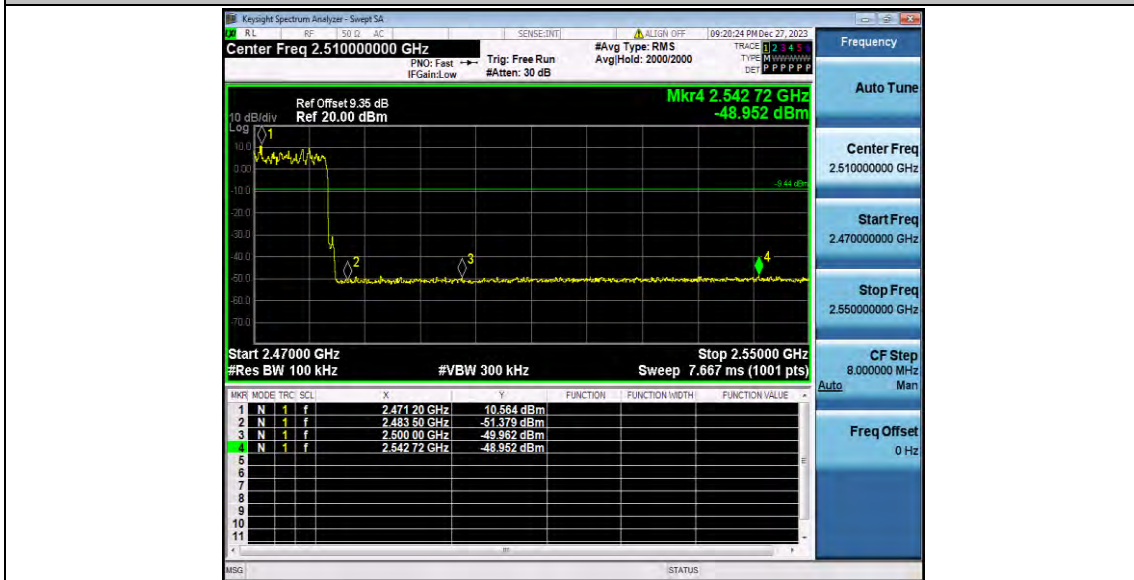
3DH1\_Ant2\_Low\_2402



3DH1\_Ant2\_High\_2480



3DH1\_Ant2\_Low\_Hop\_2402



3DH1\_Ant2\_High\_Hop\_2480

## Appendix A.8: Conducted Spurious Emission

### Test Result

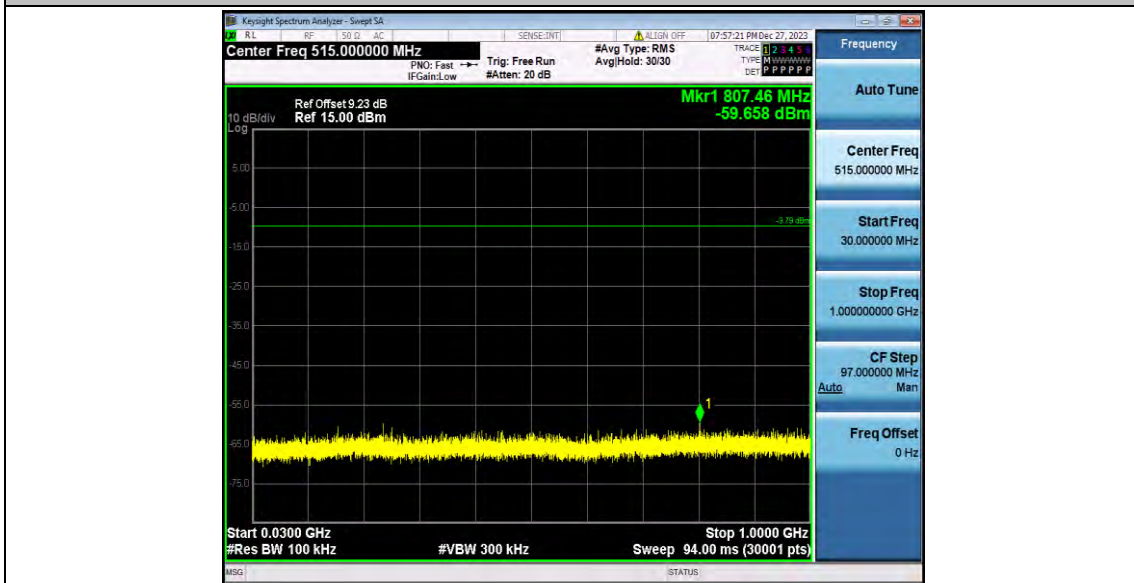
Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant2	2402	Reference	10.21	10.21	---	PASS
			30~1000	10.21	-59.66	≤-9.79	PASS
			1000~26500	10.21	-46.86	≤-9.79	PASS
		2441	Reference	11.46	11.46	---	PASS
			30~1000	11.46	-60.61	≤-8.54	PASS
			1000~26500	11.46	-47.58	≤-8.54	PASS
		2480	Reference	11.30	11.30	---	PASS
			30~1000	11.30	-60.25	≤-8.7	PASS
			1000~26500	11.30	-47.23	≤-8.7	PASS
2DH1	Ant2	2402	Reference	10.67	10.67	---	PASS
			30~1000	10.67	-60.78	≤-9.33	PASS
			1000~26500	10.67	-46.99	≤-9.33	PASS
		2441	Reference	10.87	10.87	---	PASS
			30~1000	10.87	-60.17	≤-9.13	PASS
			1000~26500	10.87	-47.32	≤-9.13	PASS
		2480	Reference	11.36	11.36	---	PASS
			30~1000	11.36	-59.84	≤-8.64	PASS
			1000~26500	11.36	-47.35	≤-8.64	PASS
3DH1	Ant2	2402	Reference	10.13	10.13	---	PASS
			30~1000	10.13	-59.85	≤-9.87	PASS
			1000~26500	10.13	-48.25	≤-9.87	PASS
		2441	Reference	11.59	11.59	---	PASS
			30~1000	11.59	-60.48	≤-8.41	PASS
			1000~26500	11.59	-46.51	≤-8.41	PASS
		2480	Reference	10.74	10.74	---	PASS
			30~1000	10.74	-60.49	≤-9.26	PASS
			1000~26500	10.74	-47.4	≤-9.26	PASS



## Test Graphs



DH1\_Ant2\_2402\_0~Reference



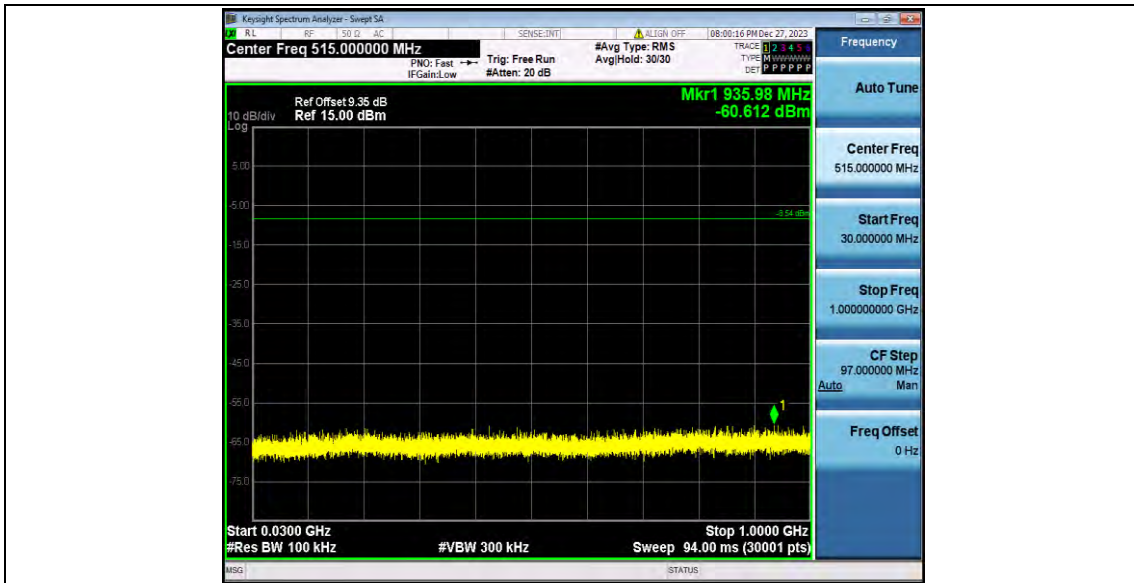
DH1\_Ant2\_2402\_30~1000



DH1\_Ant2\_2402\_1000~26500



DH1\_Ant2\_2441\_0~Reference



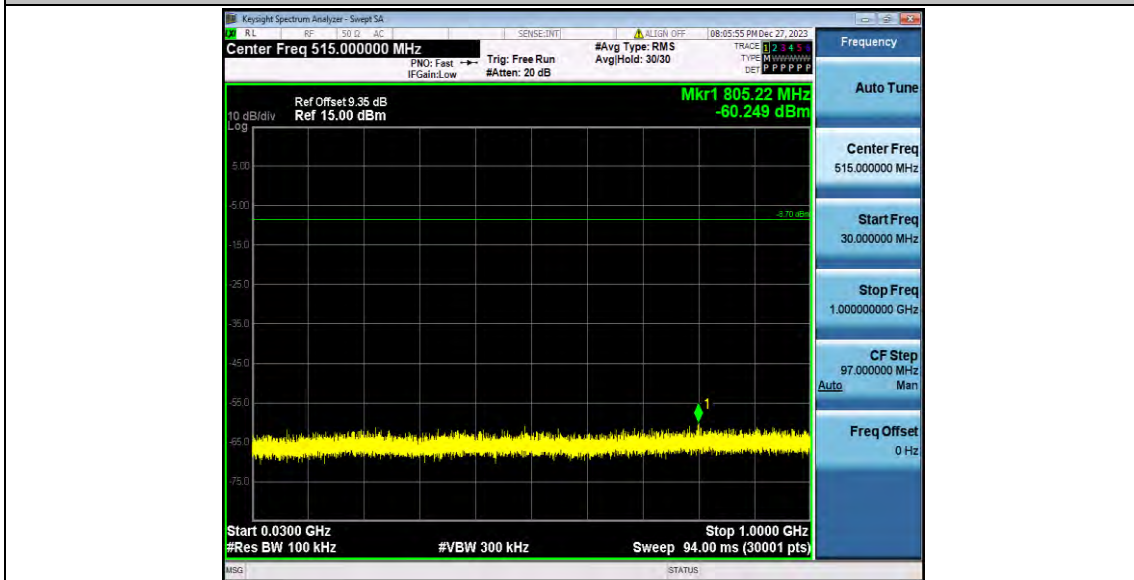
DH1\_Ant2\_2441\_30~1000



DH1\_Ant2\_2441\_1000~26500



DH1\_Ant2\_2480\_0~Reference



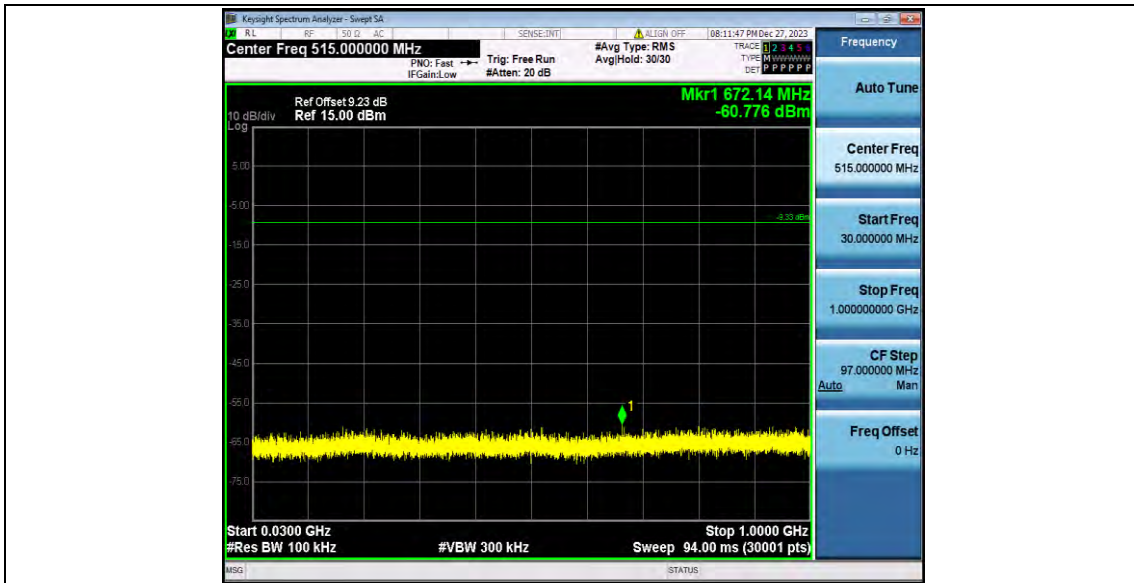
DH1\_Ant2\_2480\_30~1000



DH1\_Ant2\_2480\_1000~26500



2DH1\_Ant2\_2402\_0~Reference



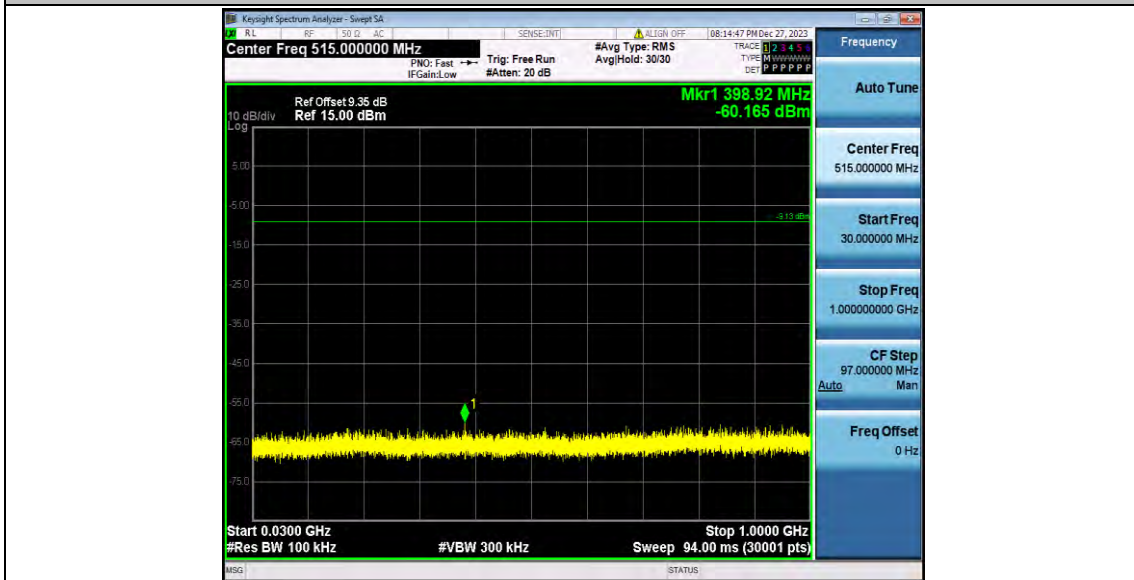
2DH1\_Ant2\_2402\_30~1000



2DH1\_Ant2\_2402\_1000~26500



2DH1\_Ant2\_2441\_0~Reference



2DH1\_Ant2\_2441\_30~1000

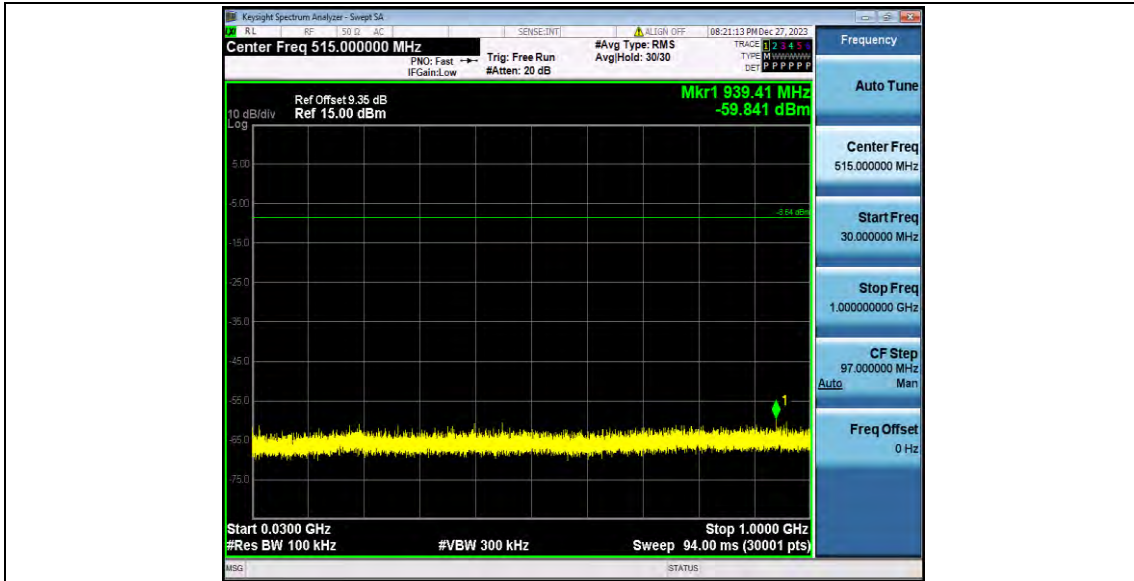


2DH1\_Ant2\_2441\_1000~26500

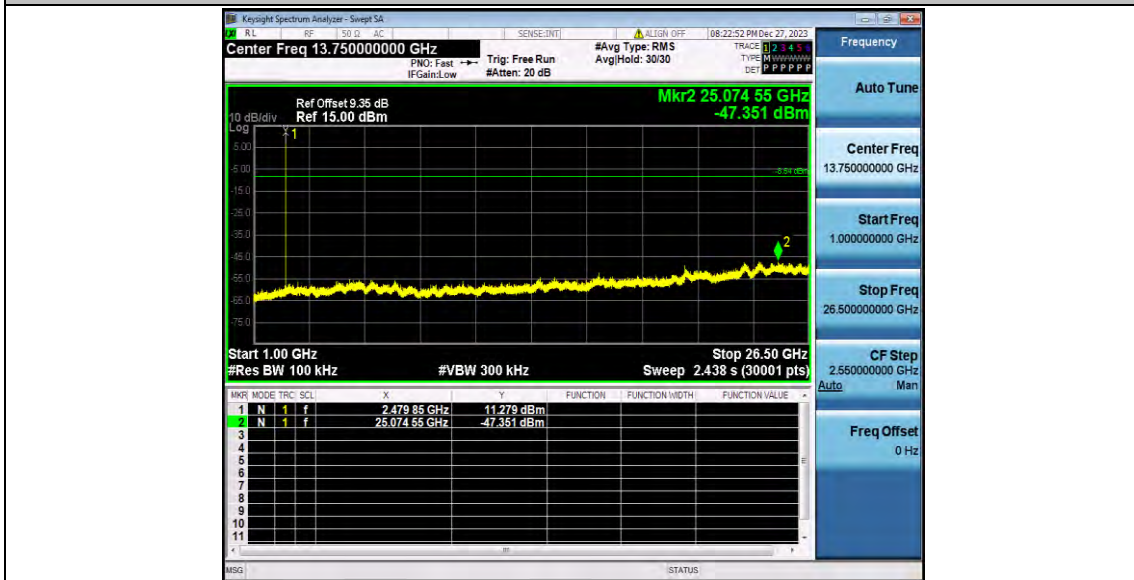


2DH1\_Ant2\_2480\_0~Reference





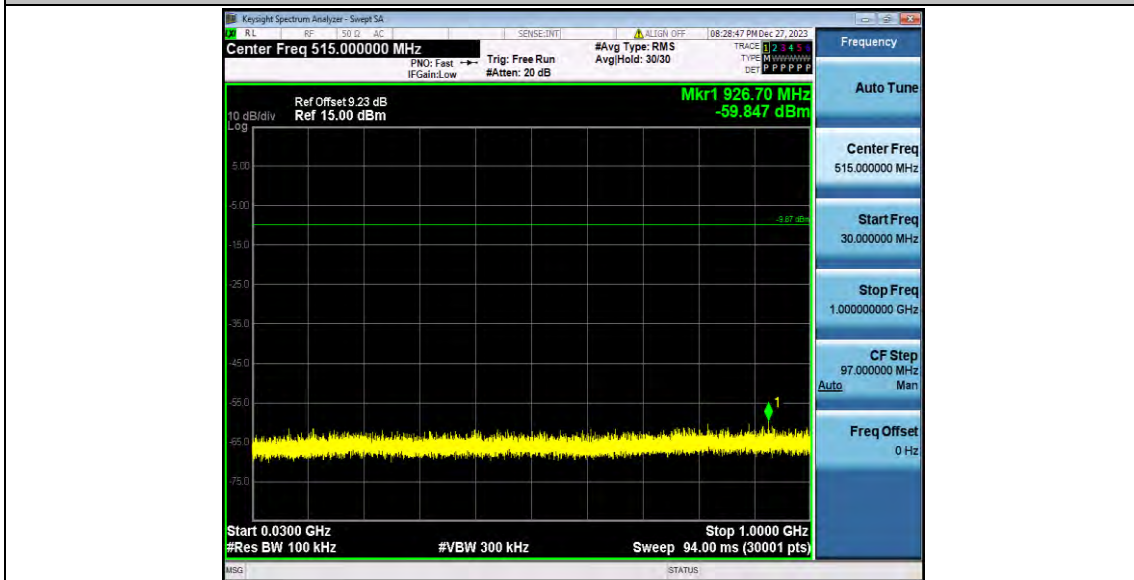
2DH1\_Ant2\_2480\_30~100



2DH1\_Ant2\_2480\_1000~26500



3DH1\_Ant2\_2402\_0~Reference



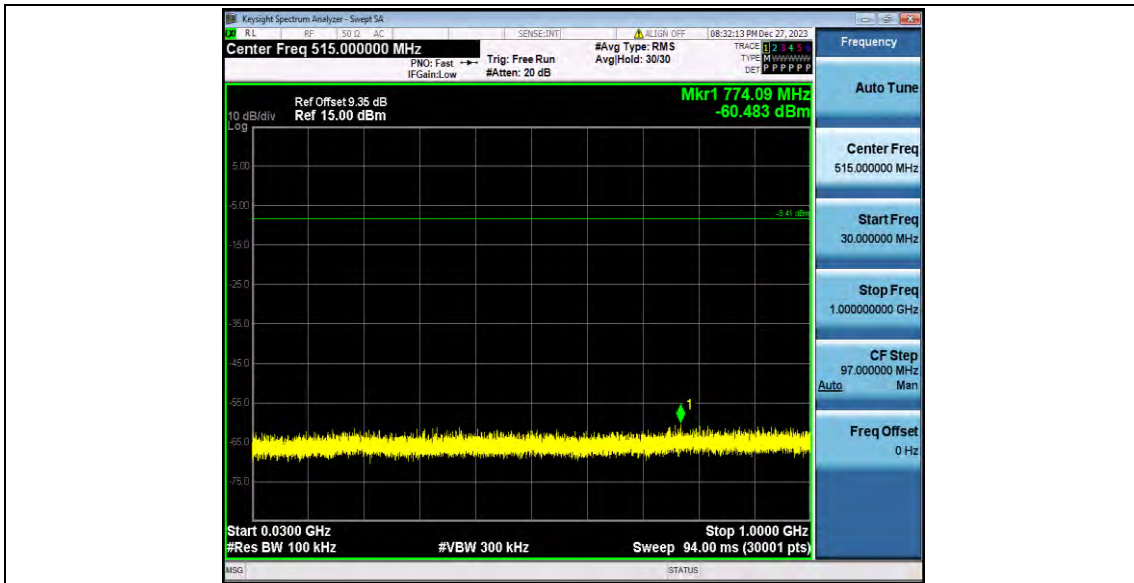
3DH1\_Ant2\_2402\_30~1000



3DH1\_Ant2\_2402\_1000~26500



3DH1\_Ant2\_2441\_0~Reference



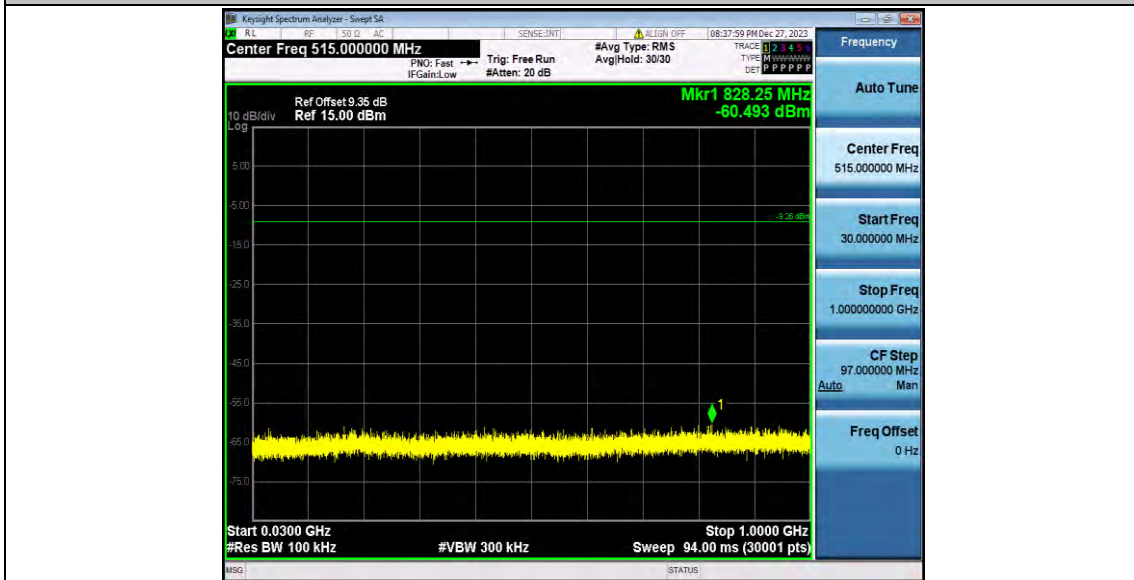
3DH1\_Ant2\_2441\_30~100



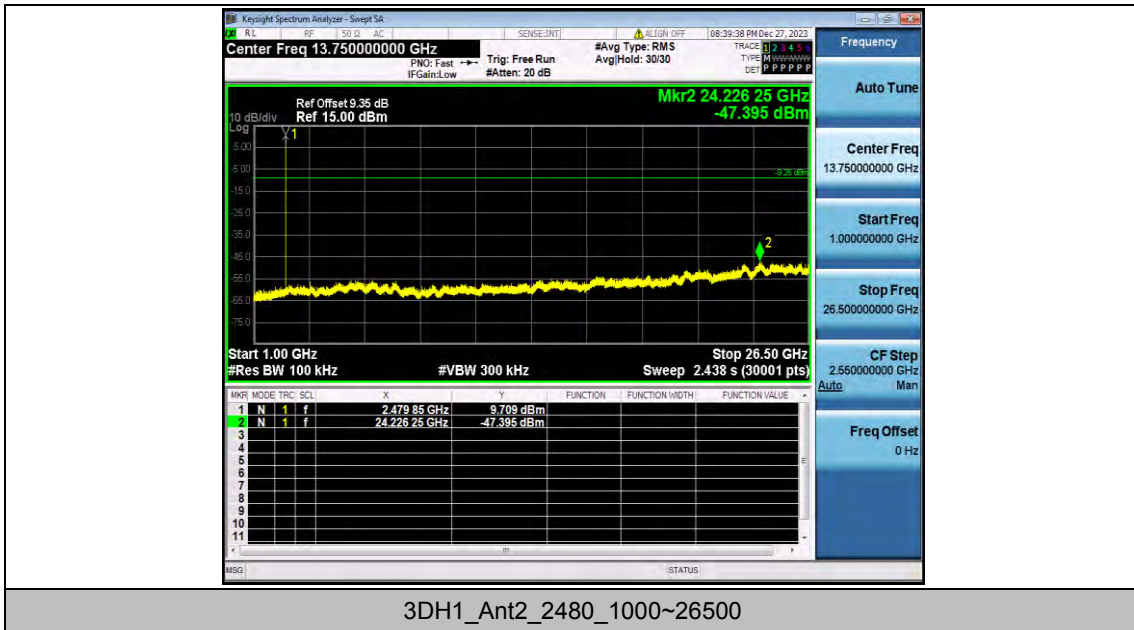
3DH1\_Ant2\_2441\_1000~26500



3DH1\_Ant2\_2480\_0~Reference



3DH1\_Ant2\_2480\_30~1000



3DH1\_Ant2\_2480\_1000~26500