

<b>Case No. :</b> <u>GTS20240118008-1-28</u>
<b>Ambient Condition:</b> <u>23 °C, 49 %RH</u>
<b>According Standard:</b> <u>■Part15C</u>
<b>Test Date:</b> <u>2024.3.13</u> <b>Test Engineer:</b> <u>Evan ouyang</u>

## Appendix A.1: 20dB Emission Bandwidth

### Test Result

TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.927	2401.526	2402.453	---	---
		2441	0.987	2440.505	2441.492	---	---
		2480	1.017	2479.499	2480.516	---	---
2DH1	Ant1	2402	1.266	2401.382	2402.648	---	---
		2441	1.248	2440.382	2441.630	---	---
		2480	1.296	2479.343	2480.639	---	---

## Test Graphs





2DH1\_Ant1\_2402



2DH1\_Ant1\_2441



2DH1\_Ant1\_2480



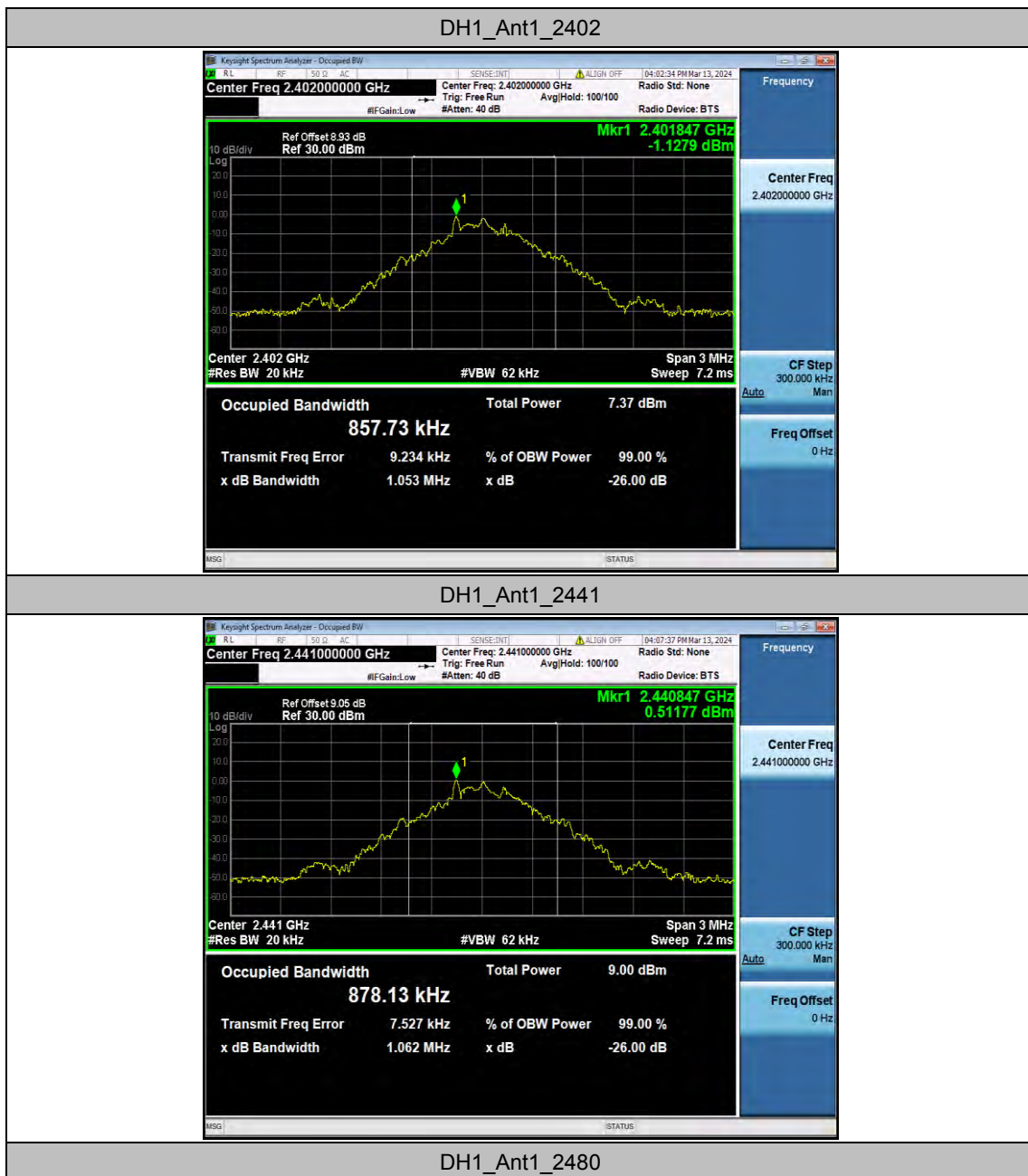
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## Appendix A.2: Occupied Channel Bandwidth

### Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH1	Ant1	2402	0.85773	2401.5804	2402.4381	---	---
		2441	0.87813	2440.5685	2441.4466	---	---
		2480	0.93617	2479.5363	2480.4725	---	---
2DH1	Ant1	2402	1.1653	2401.4224	2402.5877	---	---
		2441	1.1729	2440.4206	2441.5935	---	---
		2480	1.1677	2479.4153	2480.5830	---	---

## Test Graphs





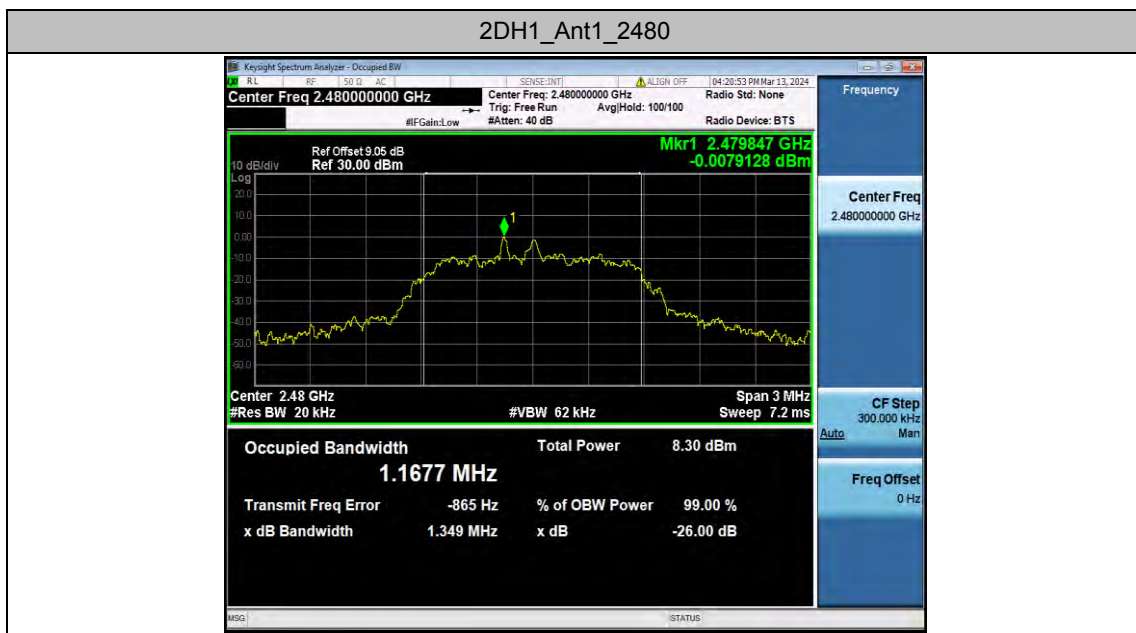


2DH1\_Ant1\_2402



2DH1\_Ant1\_2441







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## Appendix A.3: Maximum conducted output power

### Test Result

Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH1	Ant1	2402	1.49	≤20.97	PASS
		2441	2.96	≤20.97	PASS
		2480	2.55	≤20.97	PASS
2DH1	Ant1	2402	2.30	≤20.97	PASS
		2441	3.65	≤20.97	PASS
		2480	3.20	≤20.97	PASS

Note:

1.The Duty Cycle Factor and RBW Factor is compensated in the data.

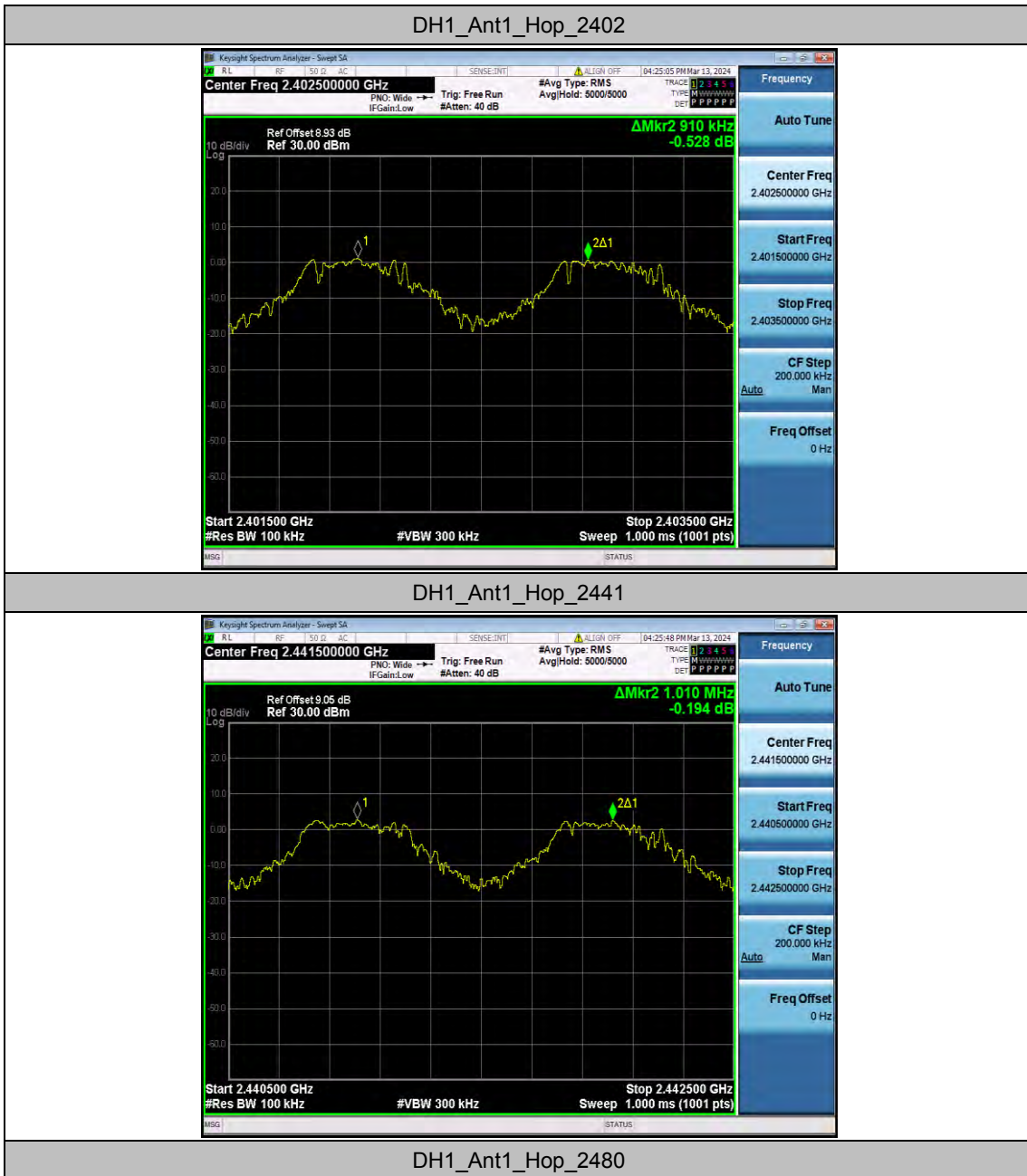
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## Appendix A.4: Carrier frequency separation

### Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH1	Ant1	Hop_2402	0.91	$\geq 0.678$	PASS
		Hop_2441	1.01	$\geq 0.678$	PASS
		Hop_2480	1	$\geq 0.678$	PASS
2DH1	Ant1	Hop_2402	1.004	$\geq 0.864$	PASS
		Hop_2441	0.992	$\geq 0.864$	PASS
		Hop_2480	0.984	$\geq 0.864$	PASS

## Test Graphs





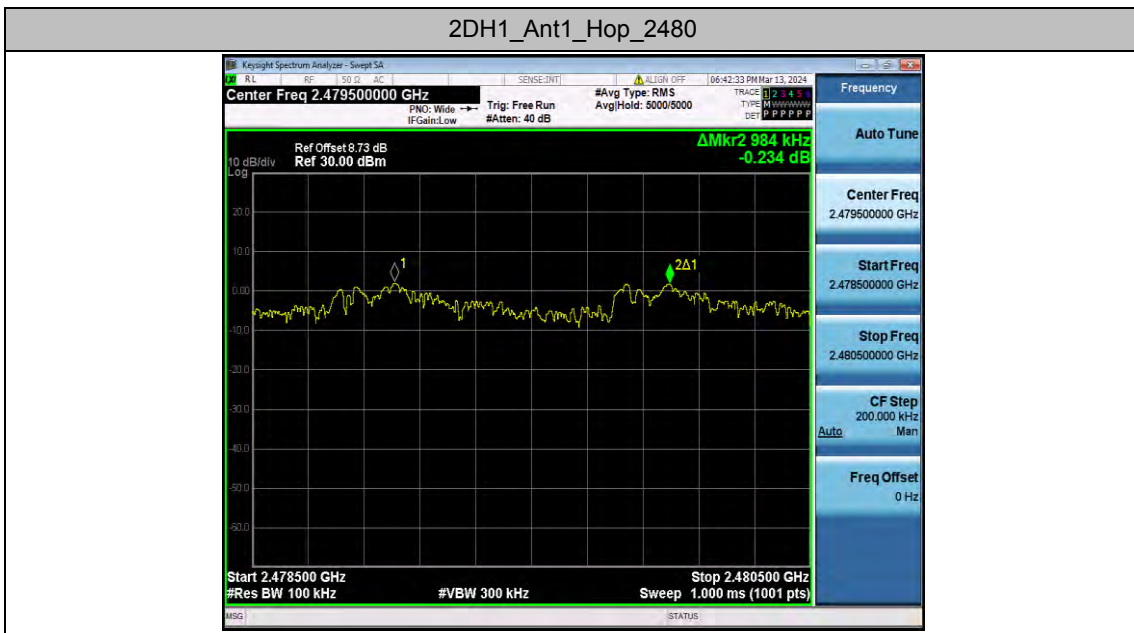
2DH1\_Ant1\_Hop\_2402



2DH1\_Ant1\_Hop\_2441



2DH1\_Ant1\_Hop\_2480



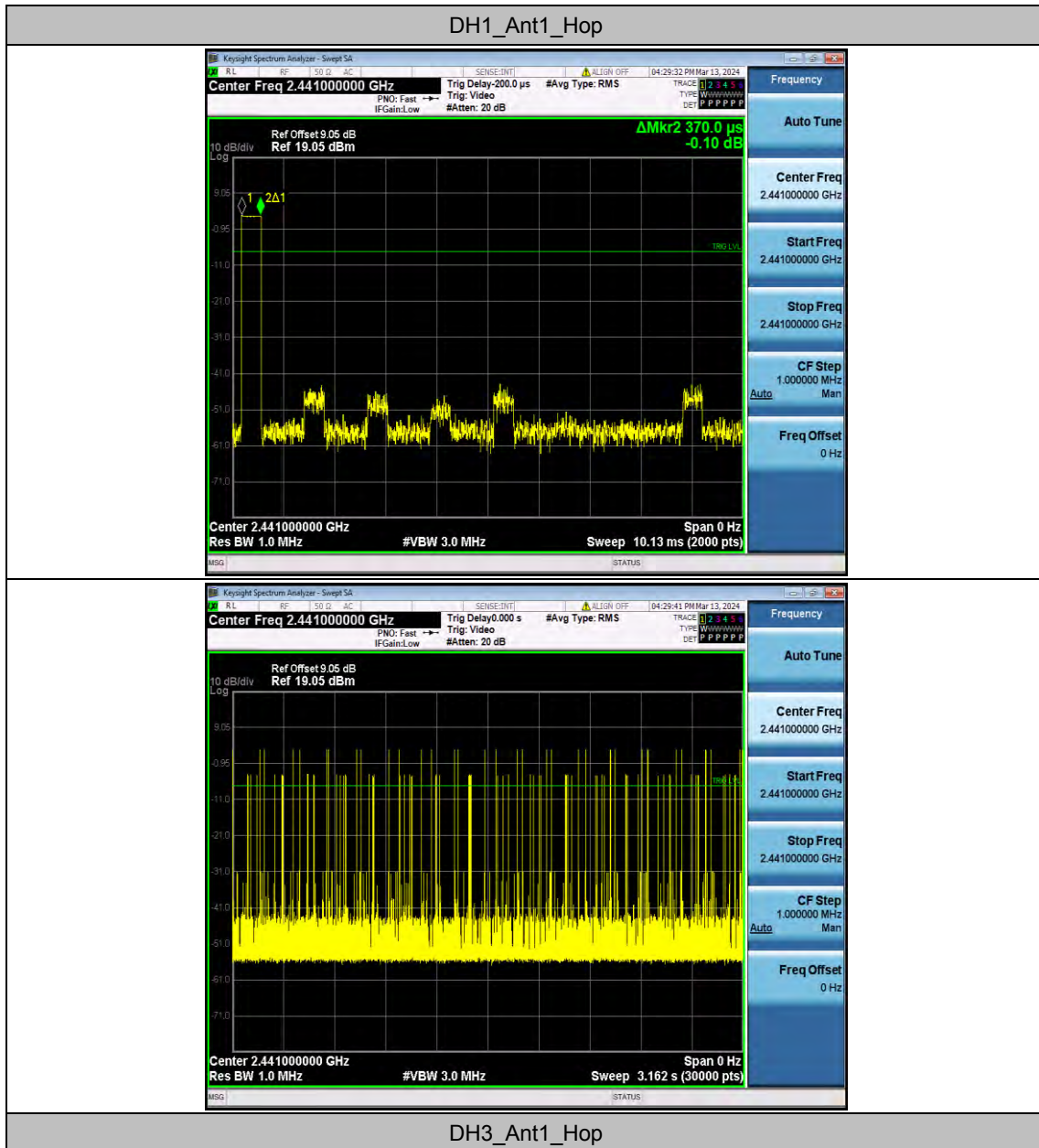
## Appendix A.5: Time of occupancy

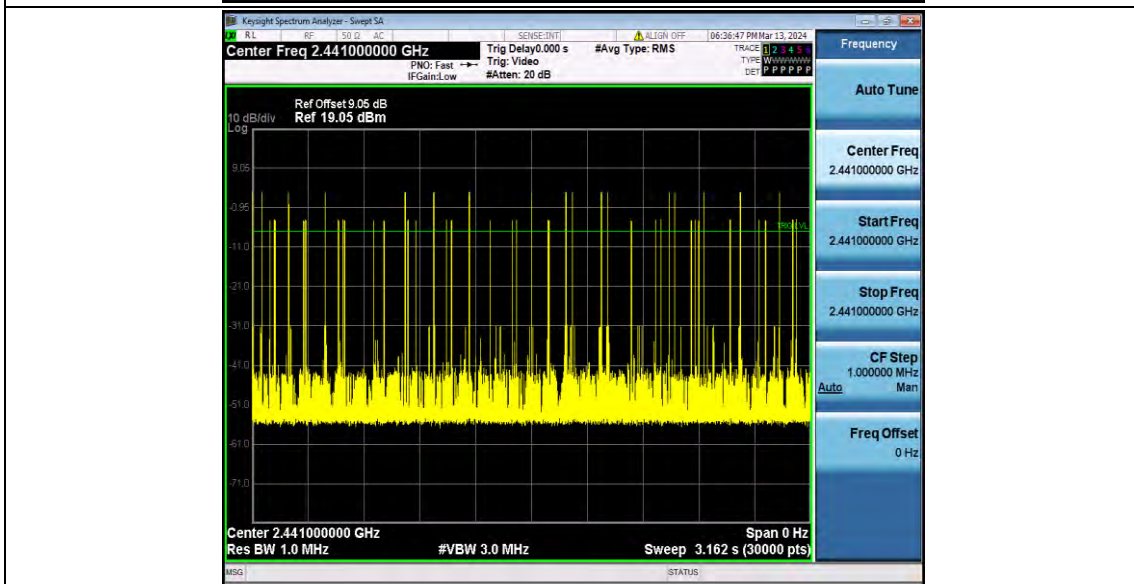
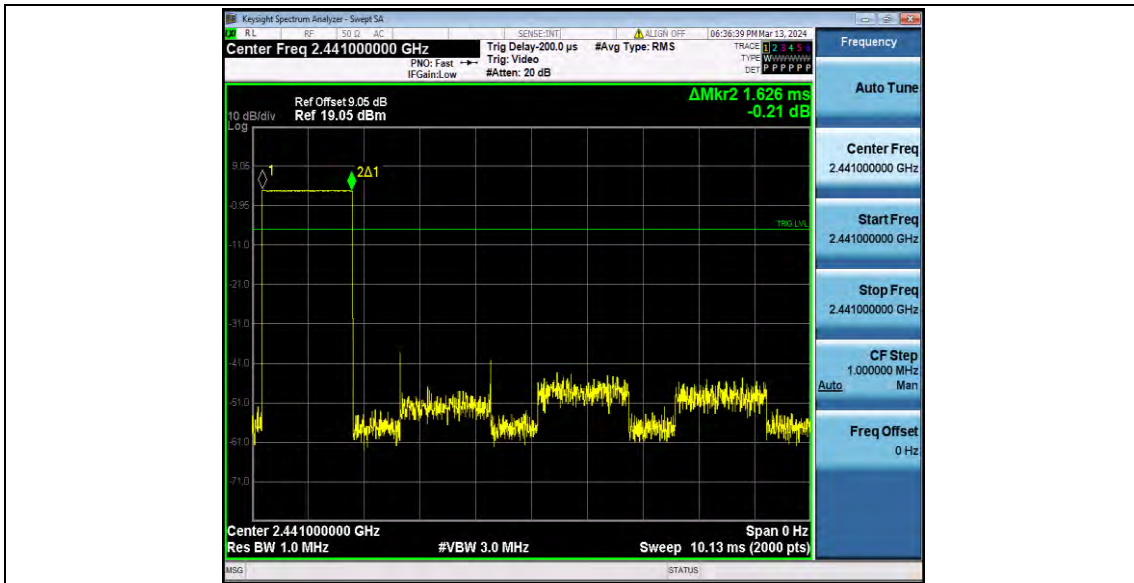
### Test Result

TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.370	330	0.122	≤0.4	PASS
DH3	Ant1	Hop	1.626	170	0.276	≤0.4	PASS
DH5	Ant1	Hop	2.878	60	0.173	≤0.4	PASS
2DH1	Ant1	Hop	0.380	650	0.247	≤0.4	PASS
2DH3	Ant1	Hop	1.626	180	0.293	≤0.4	PASS
2DH5	Ant1	Hop	2.878	100	0.288	≤0.4	PASS

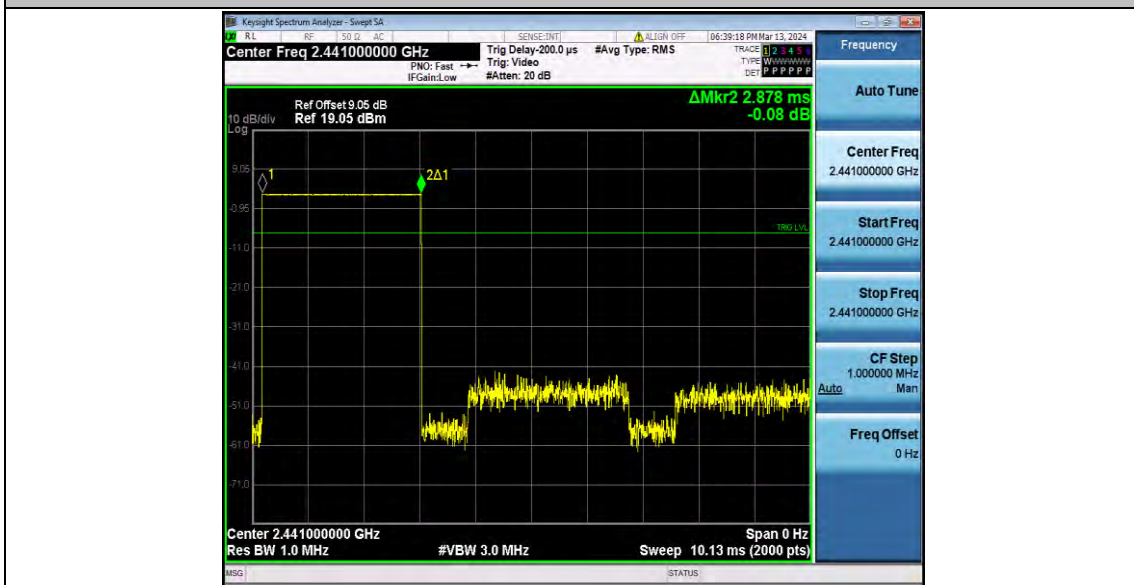


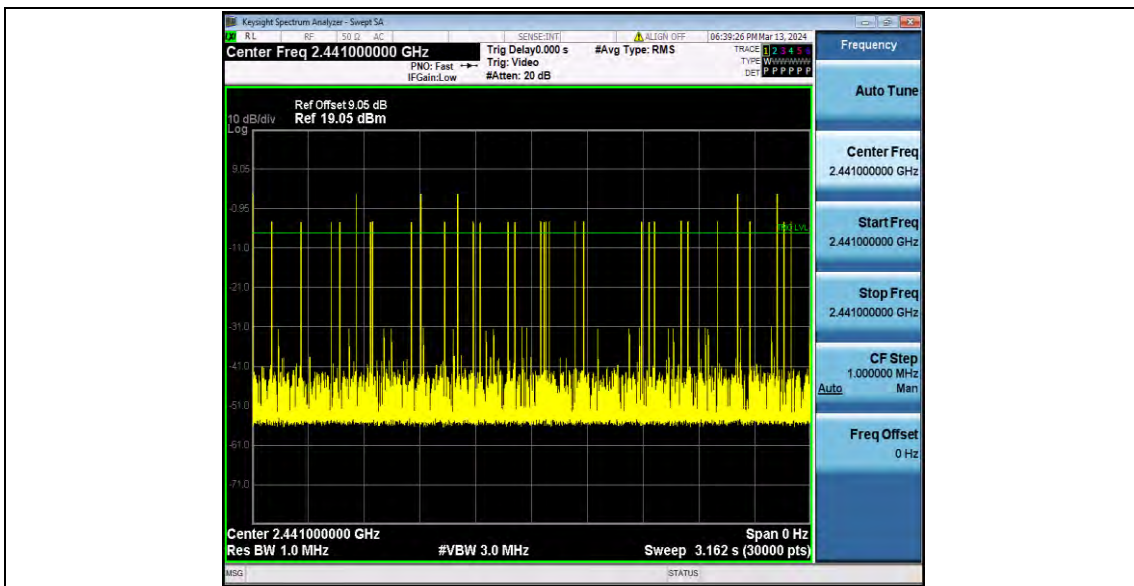
## Test Graphs



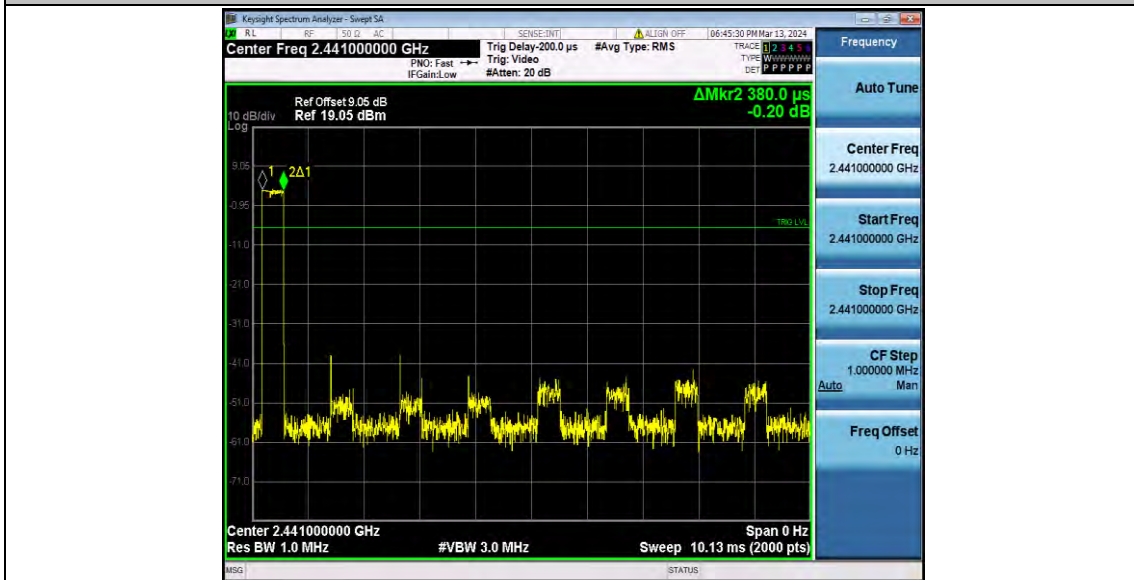


DH5\_Ant1\_Hop

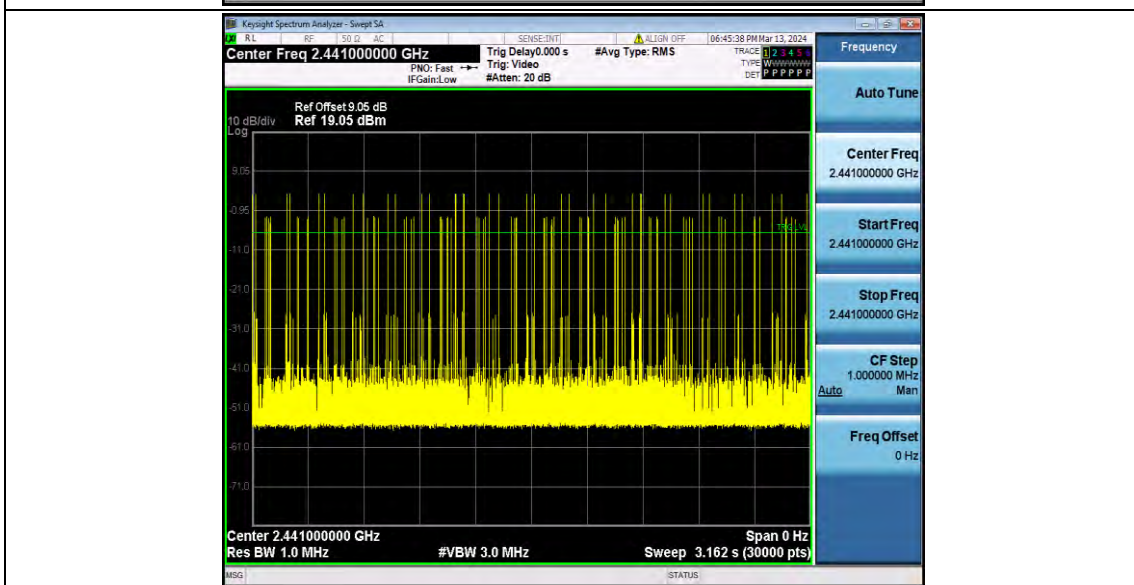




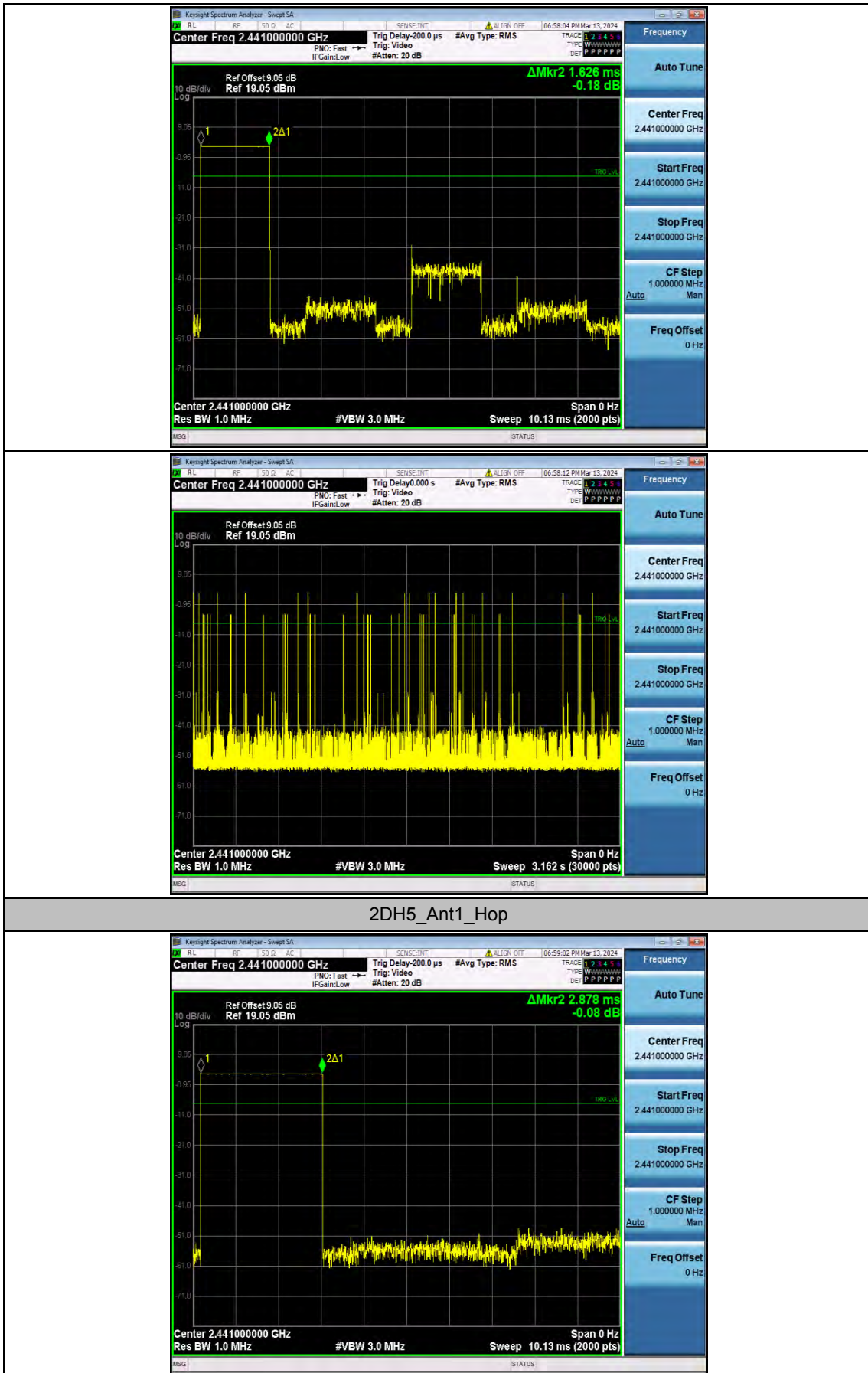
2DH1\_Ant1\_Hop

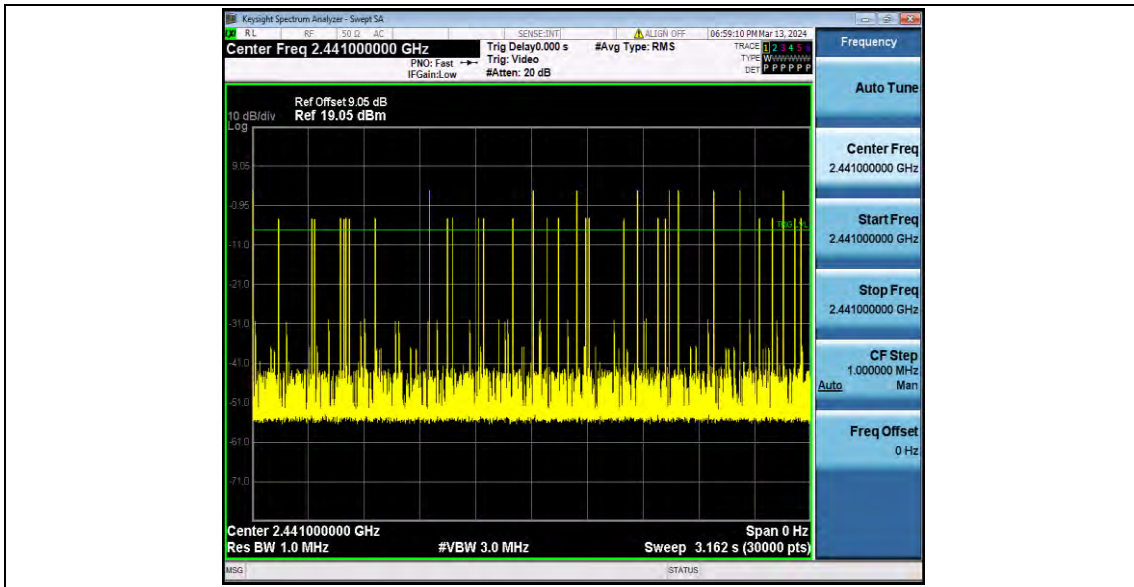


2DH3\_Ant1\_Hop









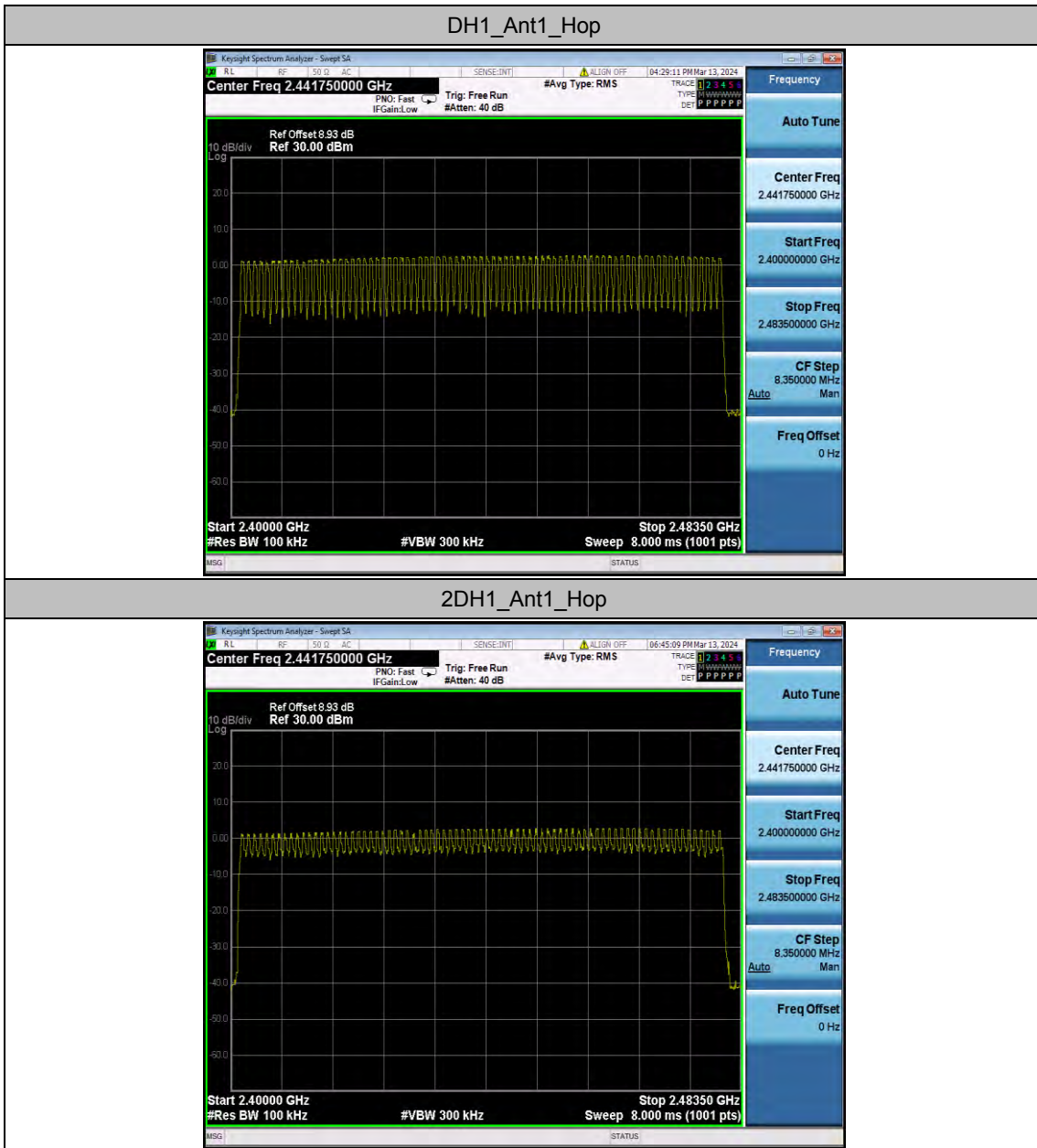
## Appendix A.6: Number of hopping channels

### Test Result

TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH1	Ant1	Hop	79	≥15	PASS
2DH1	Ant1	Hop	79	≥15	PASS



## Test Graphs

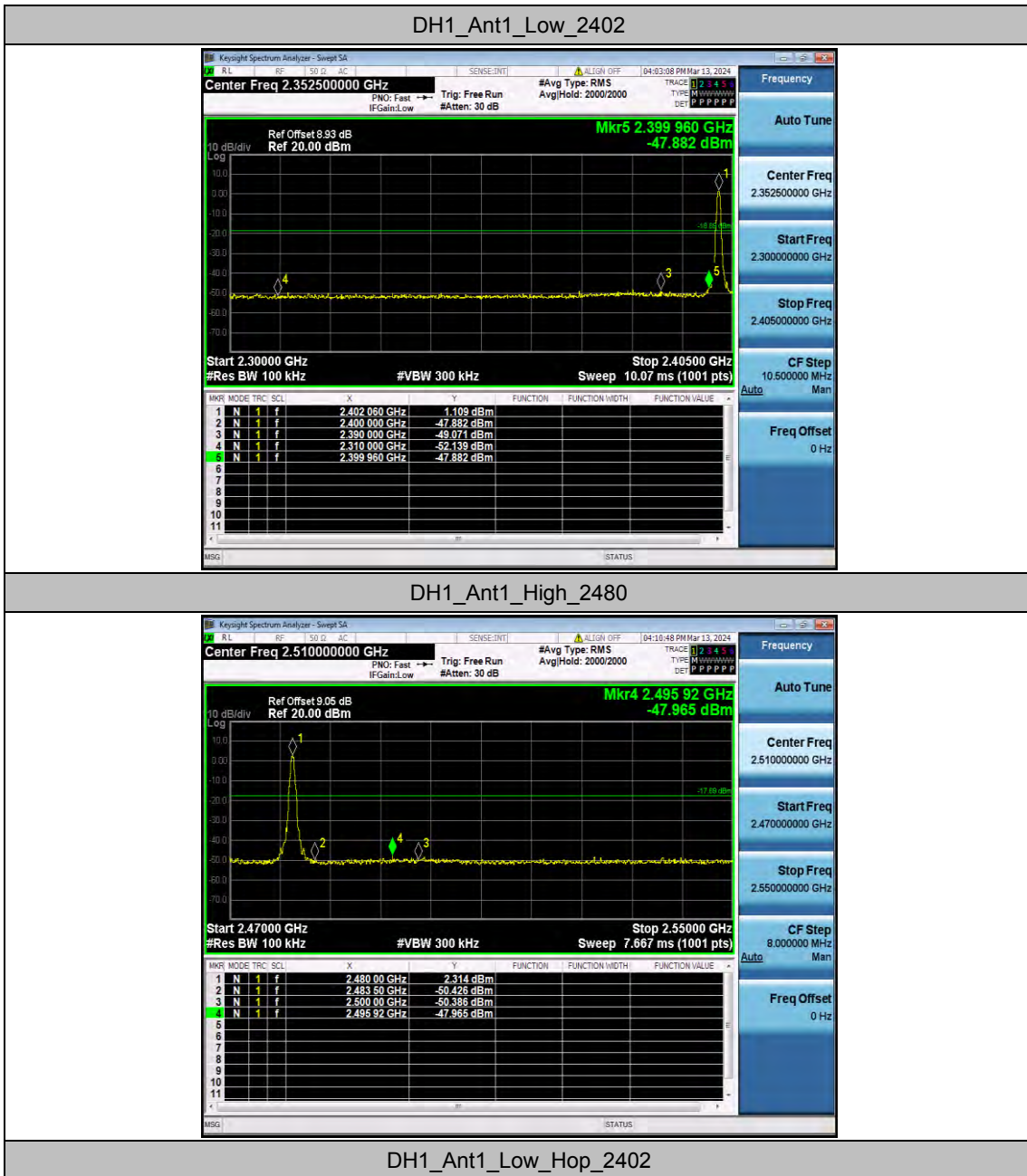


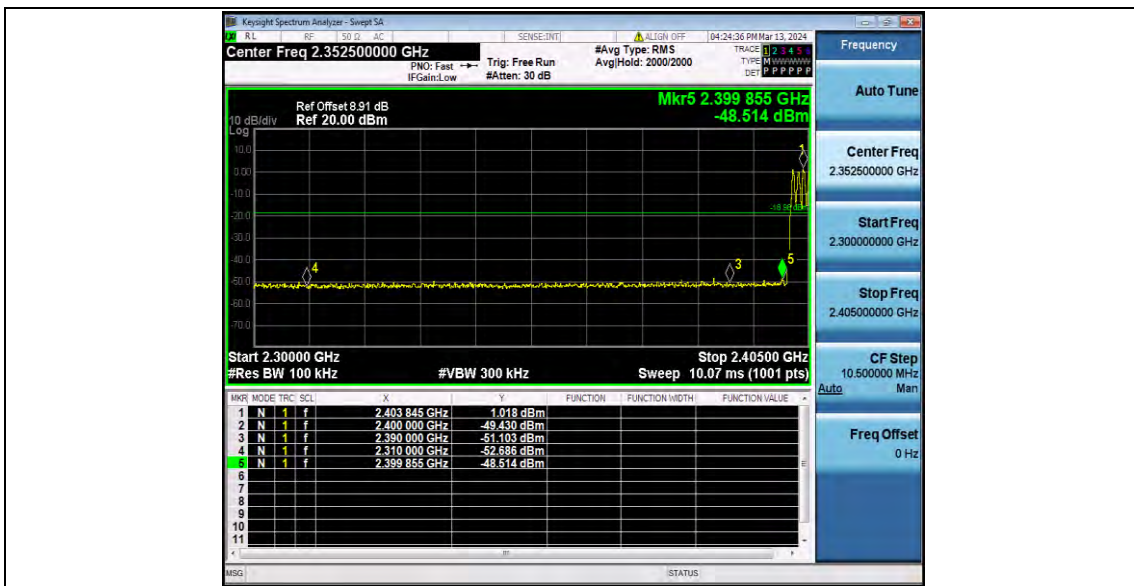
## Appendix A.7: Band edge measurements

### Test Result

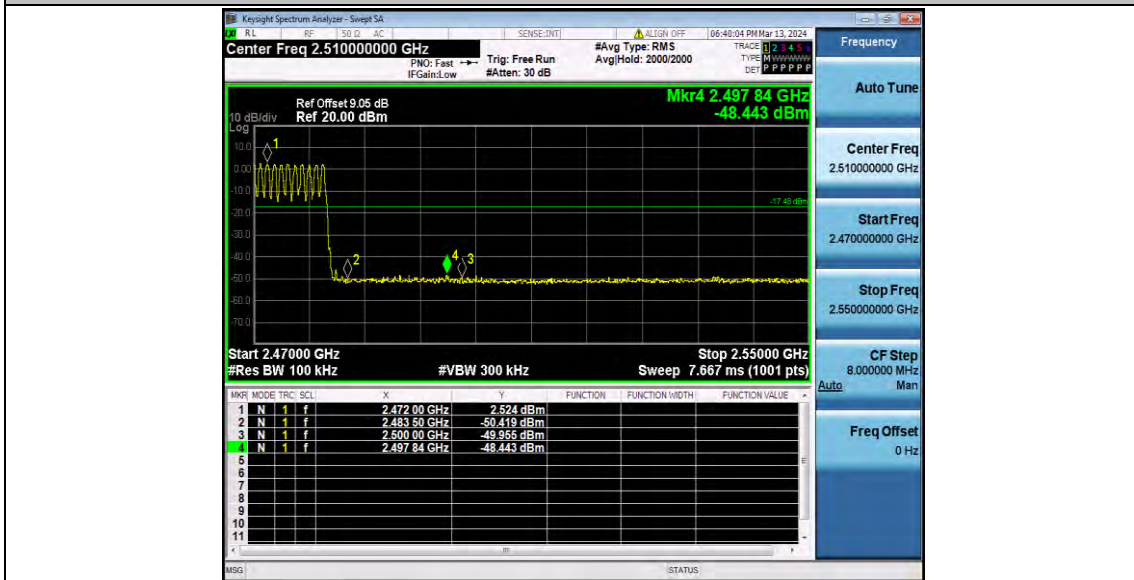
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	Low	2402	1.11	-47.88	≤-18.89	PASS
		High	2480	2.31	-47.97	≤-17.69	PASS
		Low	Hop_2402	1.02	-48.51	≤-18.98	PASS
		High	Hop_2480	2.52	-48.44	≤-17.48	PASS
2DH1	Ant1	Low	2402	1.12	-47.1	≤-18.88	PASS
		High	2480	2.21	-48.01	≤-17.79	PASS
		Low	Hop_2402	1.06	-49.11	≤-18.94	PASS
		High	Hop_2480	2.54	-47.66	≤-17.47	PASS

## Test Graphs

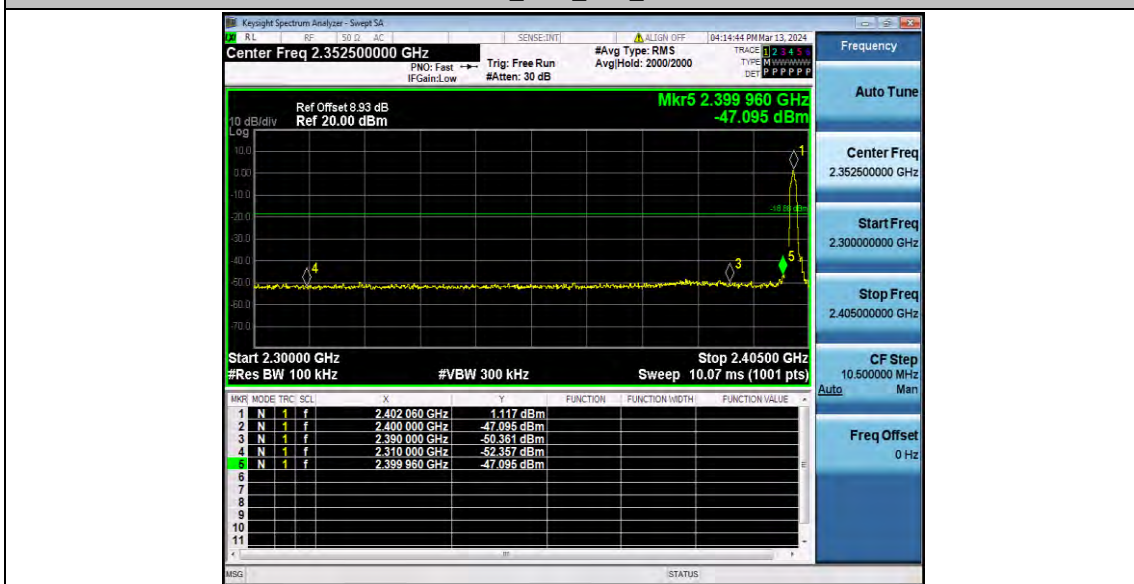




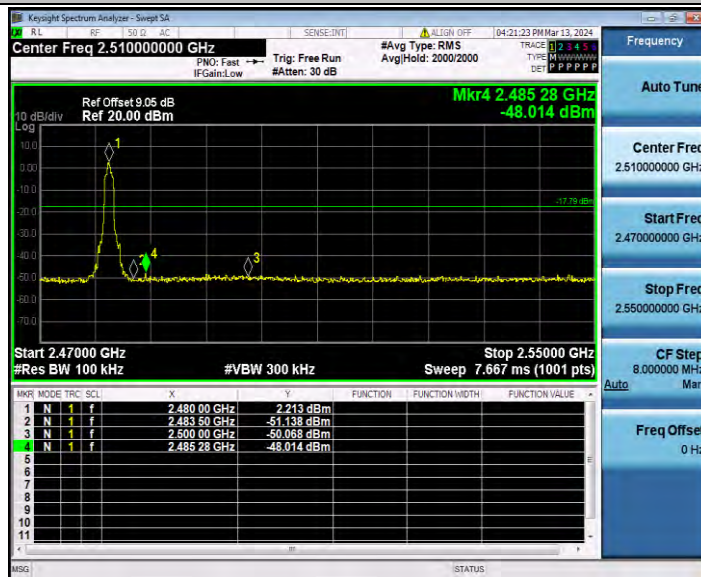
DH1\_Ant1\_High\_Hop\_2480



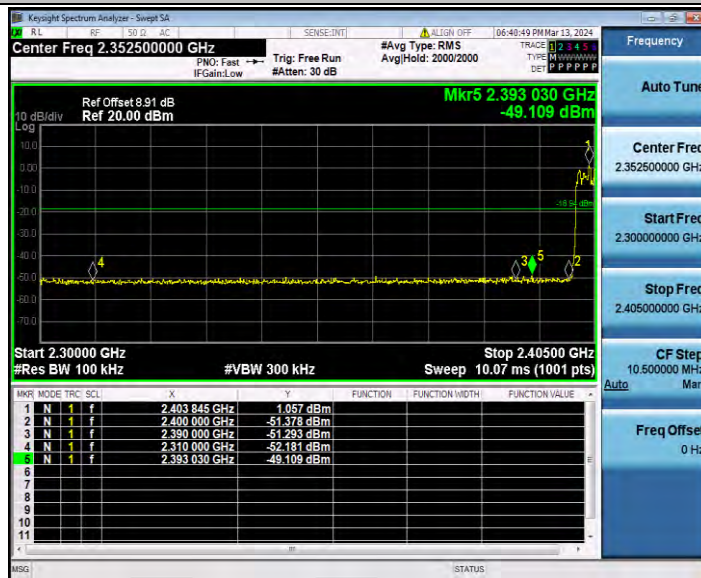
2DH1\_Ant1\_Low\_2402



2DH1\_Ant1\_High\_2480

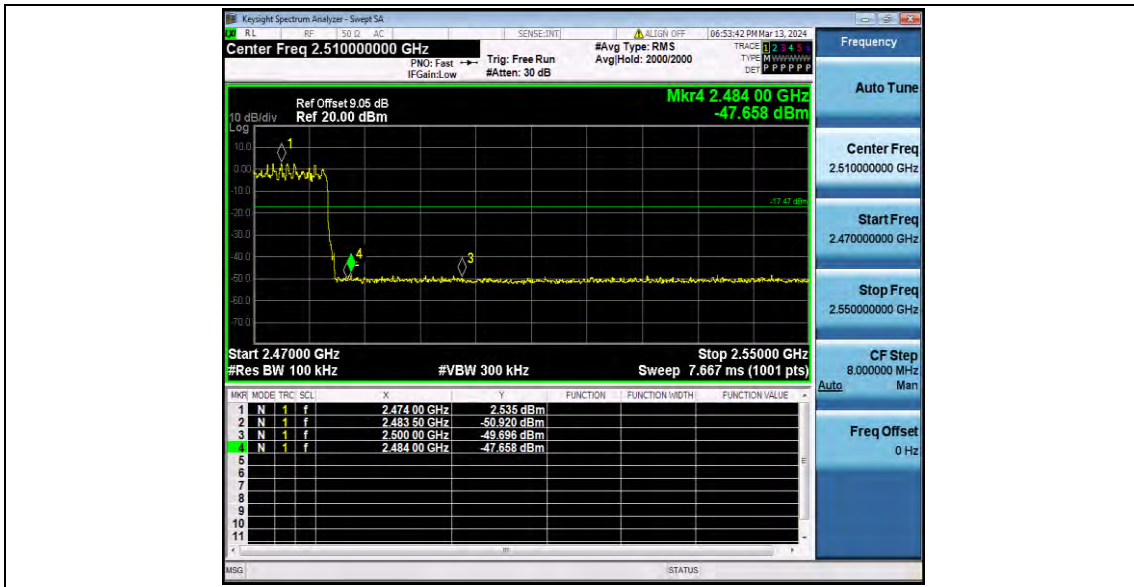


2DH1\_Ant1\_Low\_Hop\_2402



2DH1\_Ant1\_High\_Hop\_2480





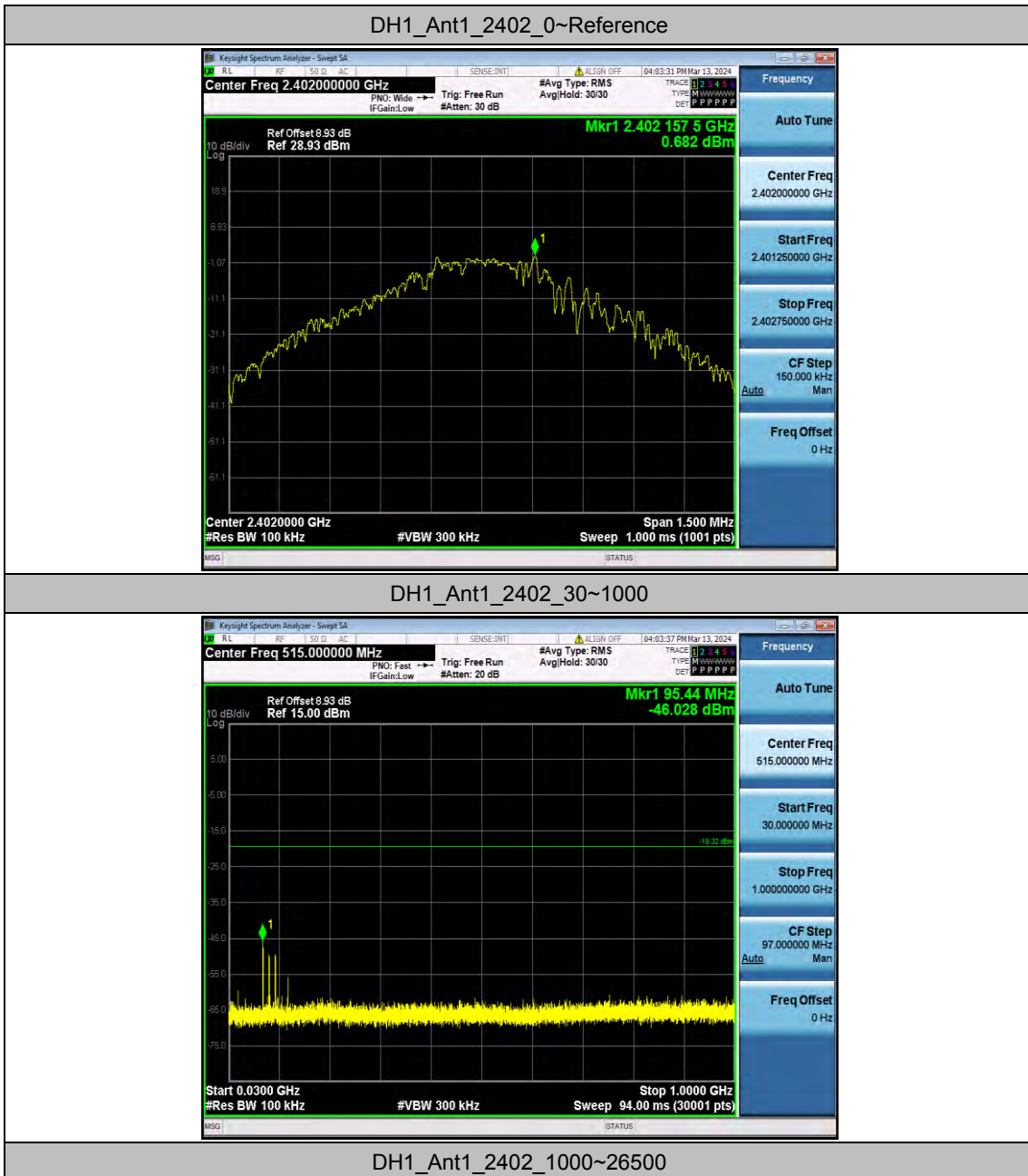


## Appendix A.8: Conducted Spurious Emission

### Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH1	Ant1	2402	Reference	0.68	0.68	---	PASS
			30~1000	0.68	-46.03	≤-19.32	PASS
			1000~26500	0.68	-48.07	≤-19.32	PASS
		2441	Reference	2.60	2.60	---	PASS
			30~1000	2.60	-45.78	≤-17.4	PASS
			1000~26500	2.60	-47.82	≤-17.4	PASS
		2480	Reference	1.62	1.62	---	PASS
			30~1000	1.62	-46.8	≤-18.38	PASS
			1000~26500	1.62	-43.67	≤-18.38	PASS
2DH1	Ant1	2402	Reference	1.03	1.03	---	PASS
			30~1000	1.03	-46.92	≤-18.97	PASS
			1000~26500	1.03	-47.43	≤-18.97	PASS
		2441	Reference	2.56	2.56	---	PASS
			30~1000	2.56	-46.3	≤-17.44	PASS
			1000~26500	2.56	-46.1	≤-17.44	PASS
		2480	Reference	2.09	2.09	---	PASS
			30~1000	2.09	-46.01	≤-17.91	PASS
			1000~26500	2.09	-46.51	≤-17.91	PASS

## Test Graphs

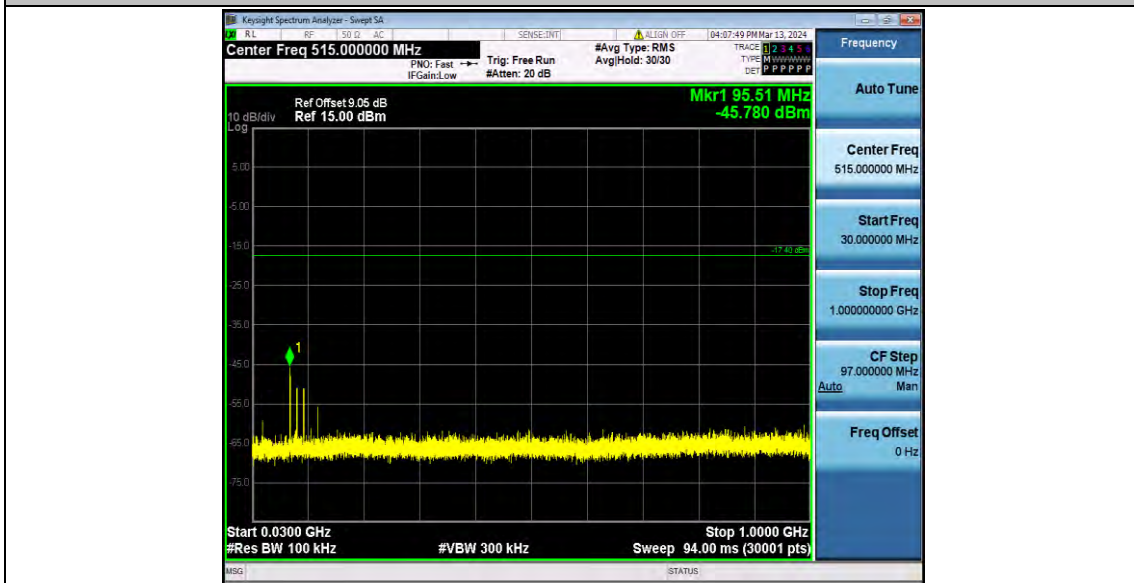




DH1\_Ant1\_2441\_0~Reference



DH1\_Ant1\_2441\_30~1000



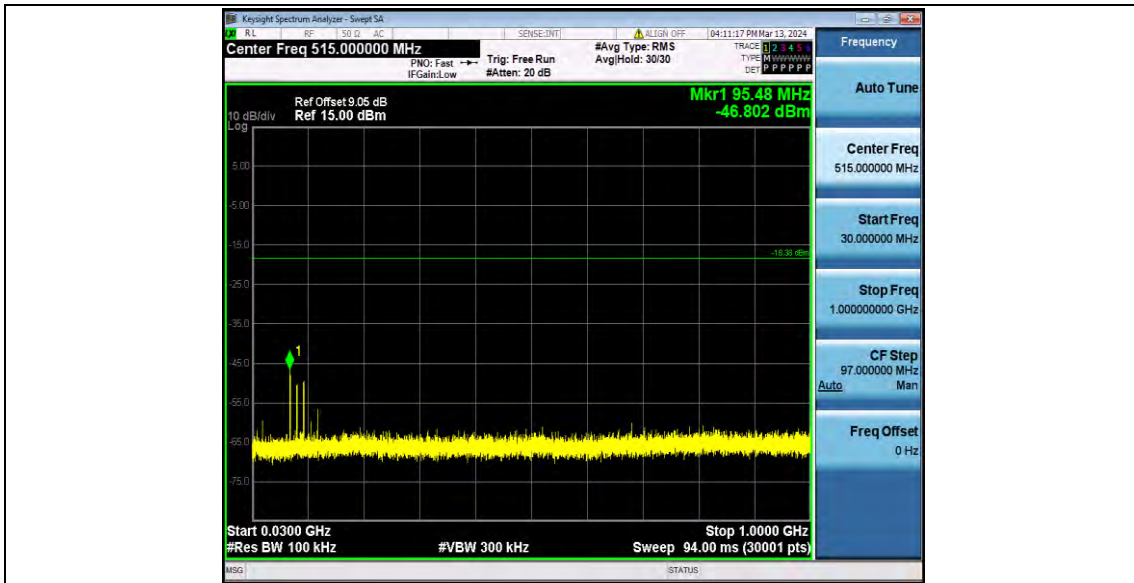
DH1\_Ant1\_2441\_1000~26500



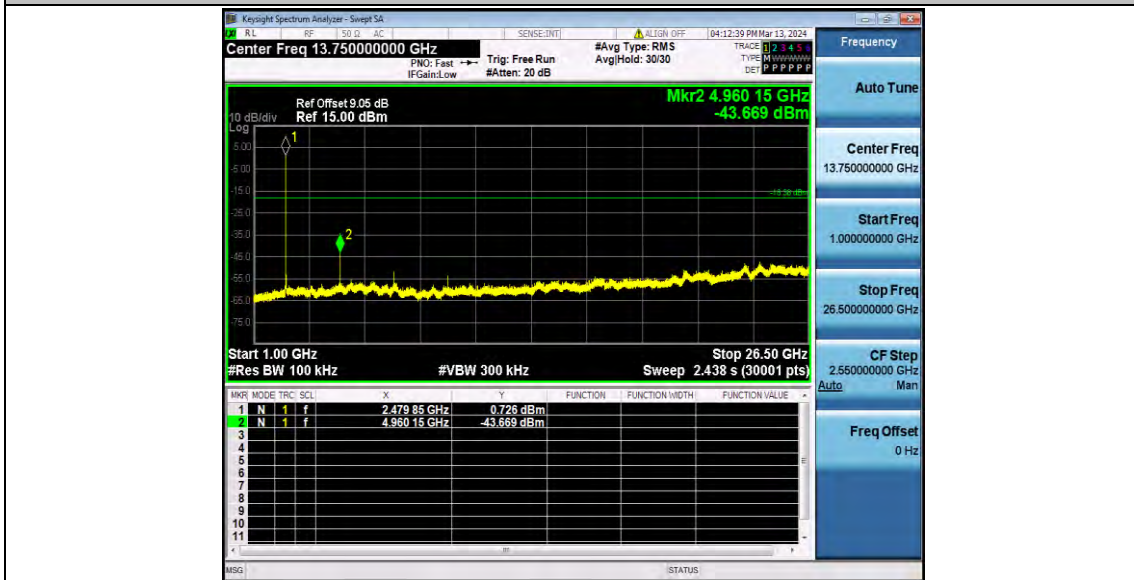
DH1\_Ant1\_2480\_0~Reference



DH1\_Ant1\_2480\_30~1000



DH1\_Ant1\_2480\_1000~26500

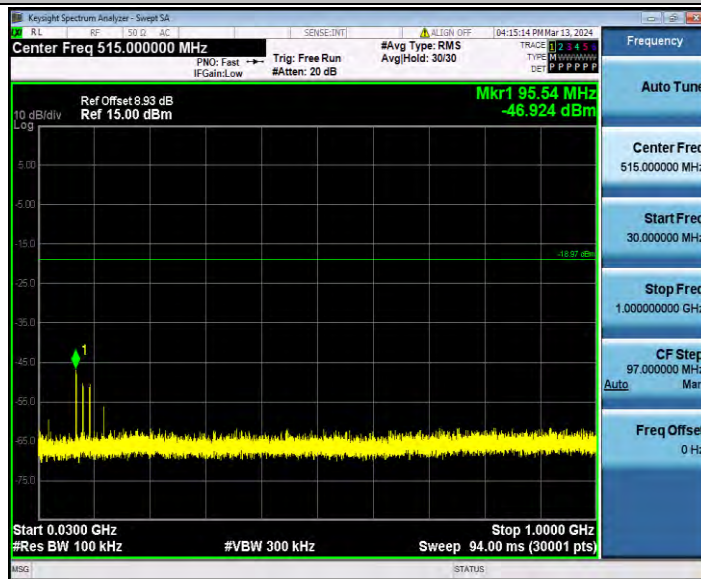


2DH1\_Ant1\_2402\_0~Reference





2DH1\_Ant1\_2402\_30~1000



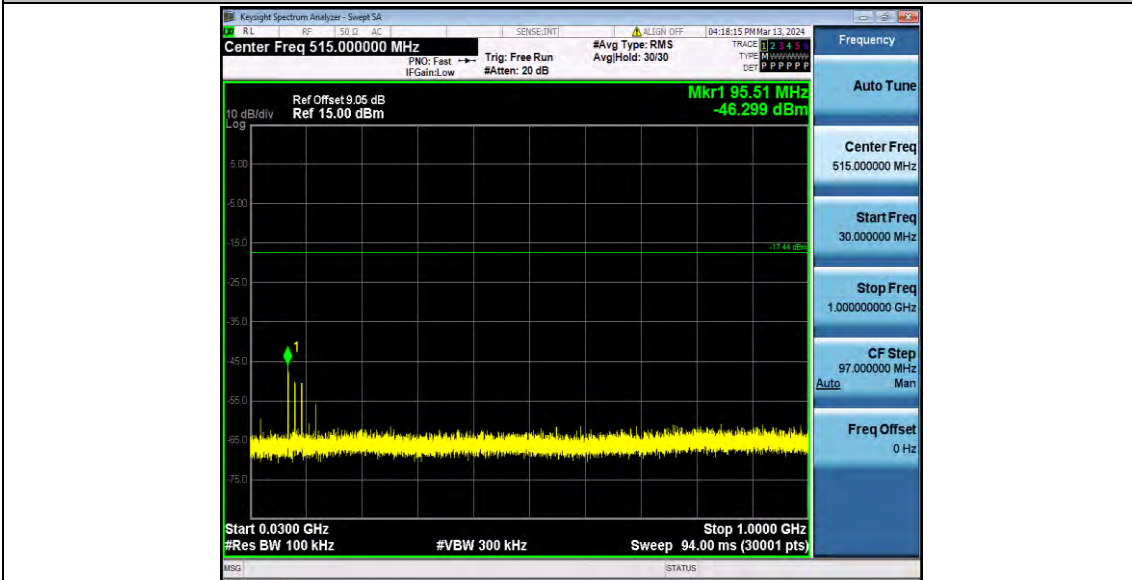
2DH1\_Ant1\_2402\_1000~26500



2DH1\_Ant1\_2441\_0~Reference



2DH1\_Ant1\_2441\_30~100



2DH1\_Ant1\_2441\_1000~26500

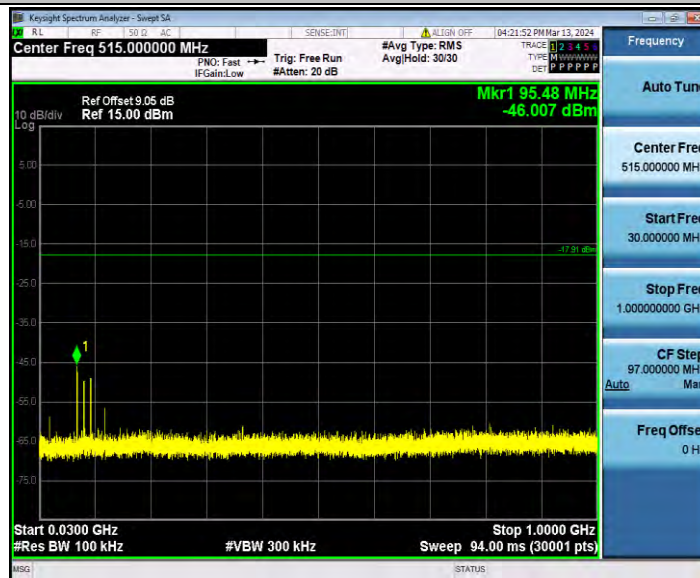




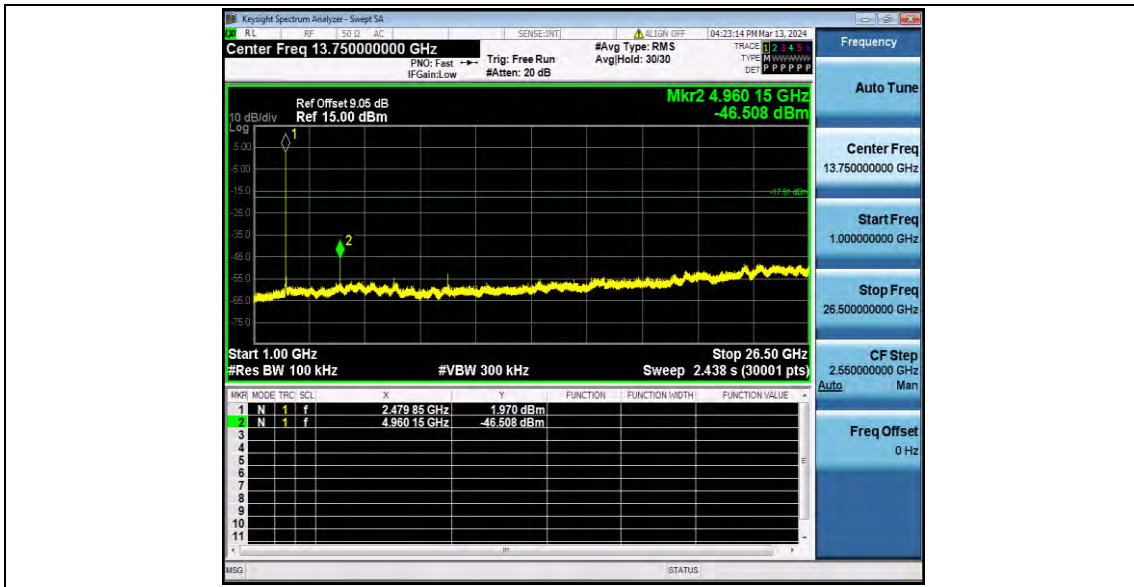
2DH1\_Ant1\_2480\_0~Reference



2DH1\_Ant1\_2480\_30~1000



2DH1\_Ant1\_2480\_1000~26500



## Appendix A.9: Emissions in Restricted Bands

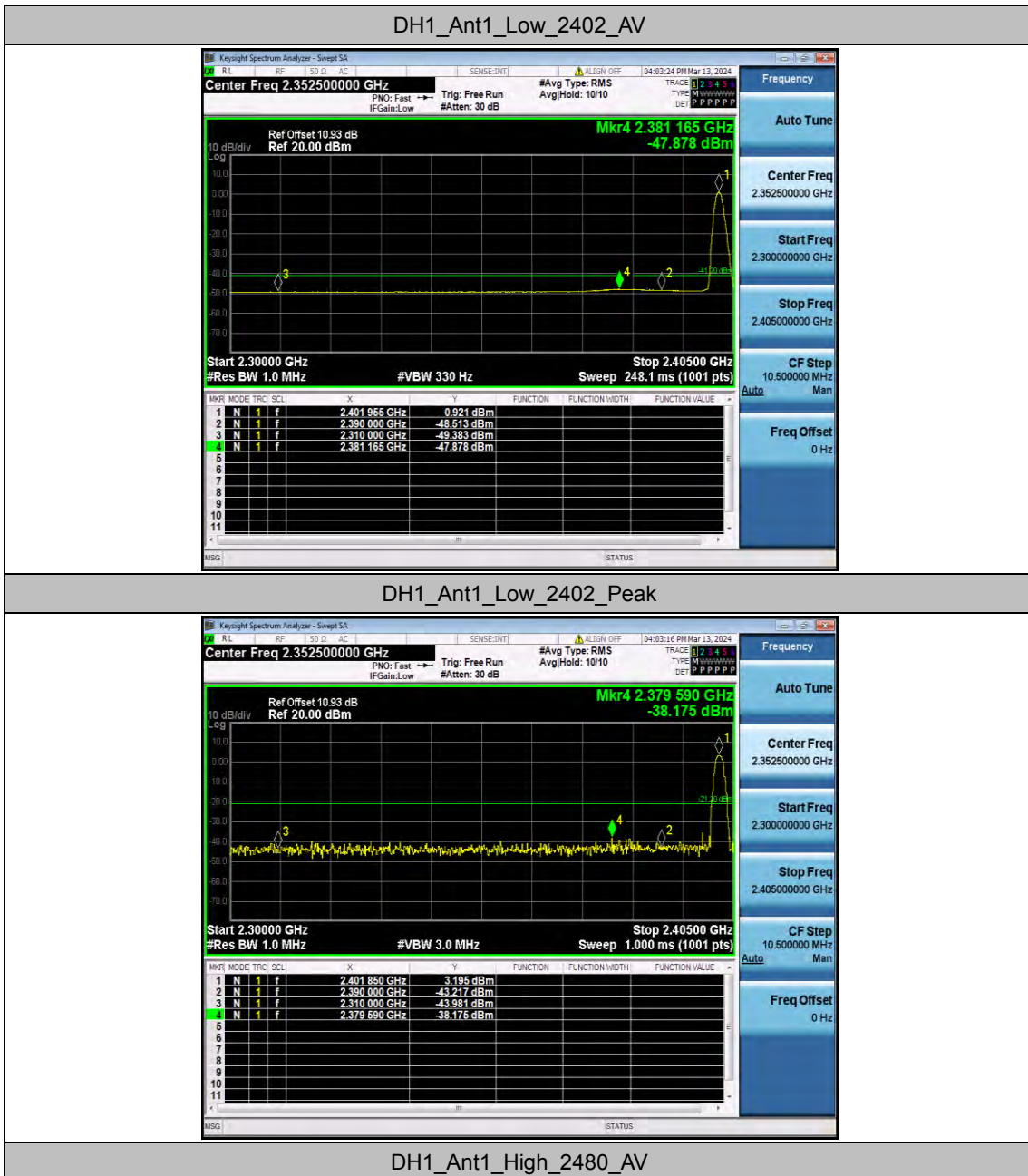
### Test Result

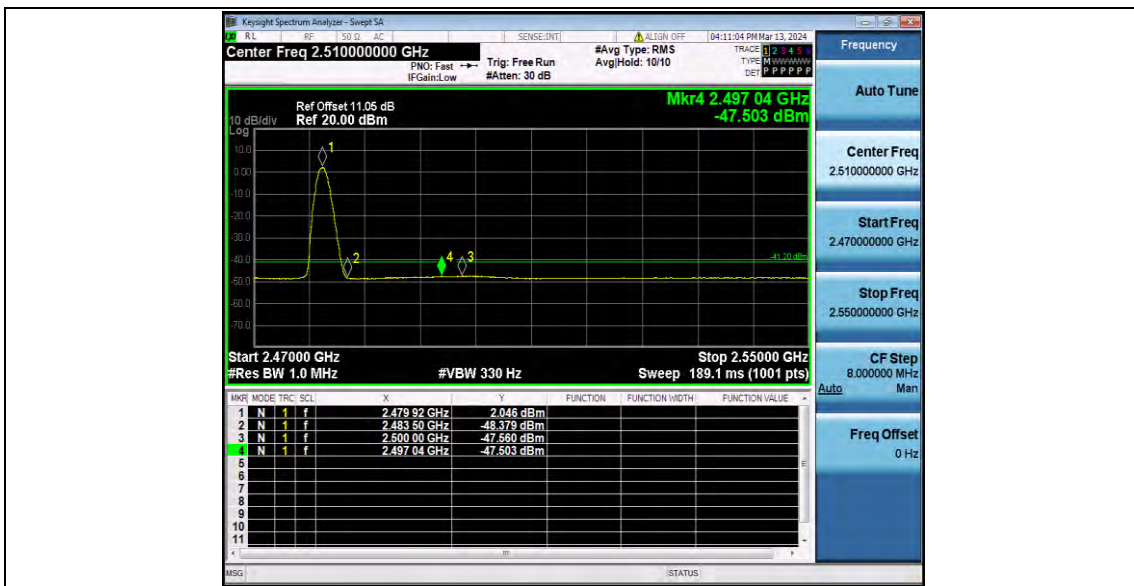
TestMode	Antenna	ChName	Freq (MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH1	Ant1	Low	2402	AV	2310.000	-49.38	≤-41.20	45.82	≤54	PASS
				AV	2381.165	-47.88	≤-41.20	47.32	≤54	PASS
				AV	2390.000	-48.51	≤-41.20	46.69	≤54	PASS
				Peak	2310.000	-43.98	≤-21.20	51.22	≤74	PASS
				Peak	2379.590	-38.18	≤-21.20	57.02	≤74	PASS
				Peak	2390.000	-43.22	≤-21.20	51.98	≤74	PASS
		High	2480	AV	2483.500	-48.38	≤-41.20	46.82	≤54	PASS
				AV	2497.040	-47.5	≤-41.20	47.70	≤54	PASS
				AV	2500.000	-47.56	≤-41.20	47.64	≤54	PASS
				Peak	2483.500	-39.48	≤-21.20	55.72	≤74	PASS
				Peak	2486.880	-37.27	≤-21.20	57.93	≤74	PASS
				Peak	2500.000	-38.45	≤-21.20	56.75	≤74	PASS
2DH1	Ant1	Low	2402	AV	2310.000	-49.34	≤-41.20	45.86	≤54	PASS
				AV	2385.890	-47.88	≤-41.20	47.32	≤54	PASS
				AV	2390.000	-48.43	≤-41.20	46.77	≤54	PASS
				Peak	2310.000	-41.37	≤-21.20	53.83	≤74	PASS
				Peak	2389.565	-37.68	≤-21.20	57.52	≤74	PASS
				Peak	2390.000	-40.49	≤-21.20	54.71	≤74	PASS
		High	2480	AV	2483.500	-48.23	≤-41.20	46.97	≤54	PASS
				AV	2498.640	-47.43	≤-41.20	47.77	≤54	PASS
				AV	2500.000	-47.74	≤-41.20	47.46	≤54	PASS
				Peak	2483.500	-38.6	≤-21.20	56.60	≤74	PASS
				Peak	2484.000	-35.81	≤-21.20	59.39	≤74	PASS
				Peak	2500.000	-40.26	≤-21.20	54.94	≤74	PASS

Note:

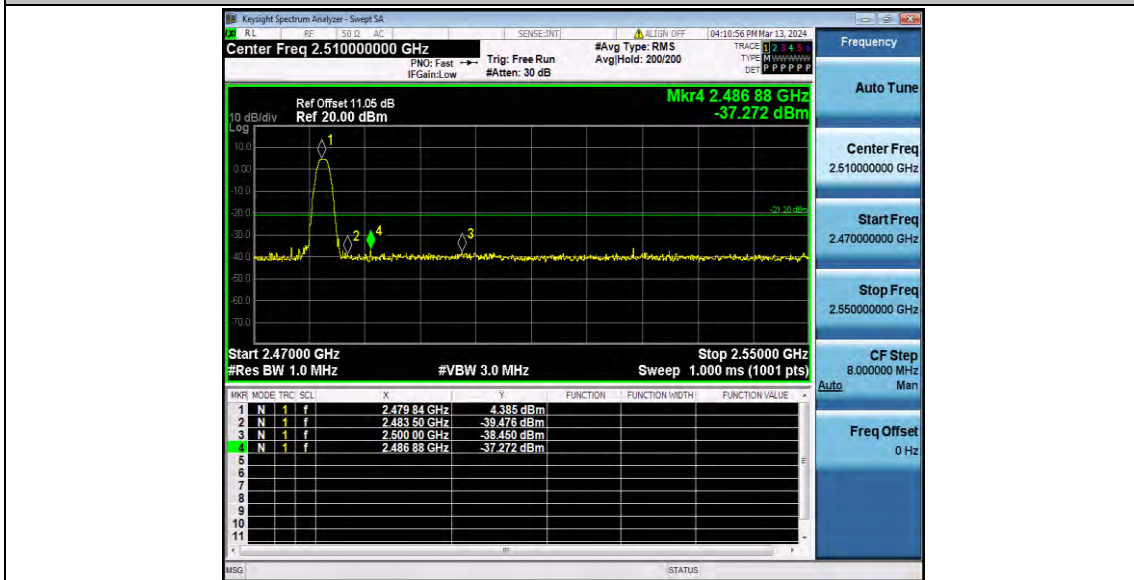
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

## Test Graphs

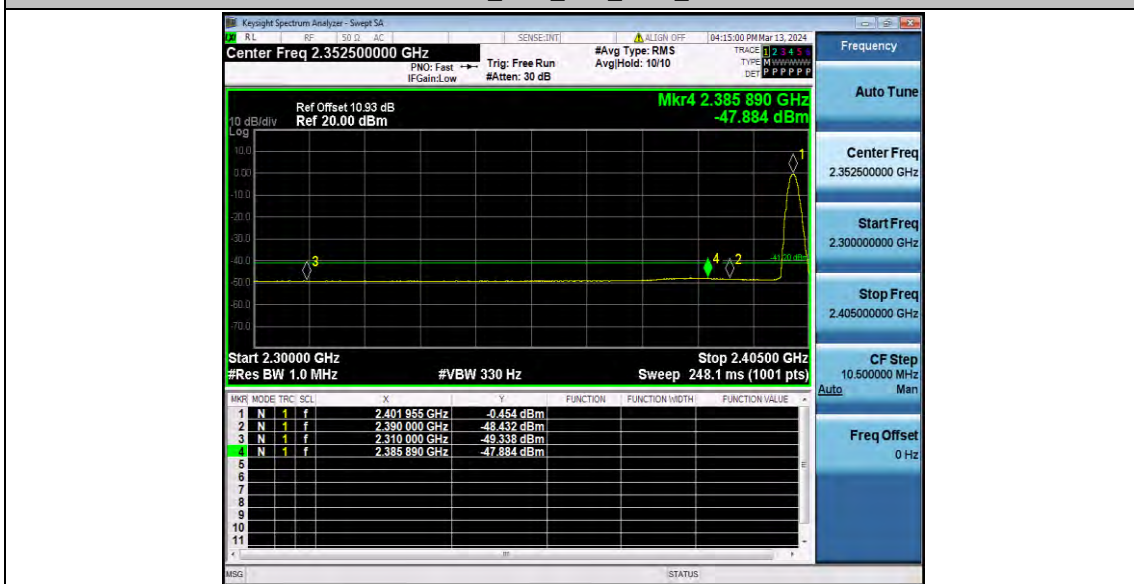




DH1\_Ant1\_High\_2480\_Peak

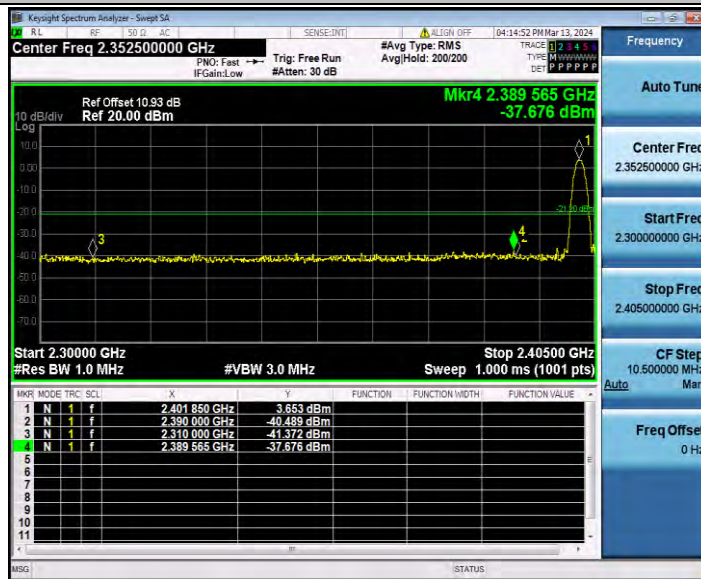


2DH1\_Ant1\_Low\_2402\_AV

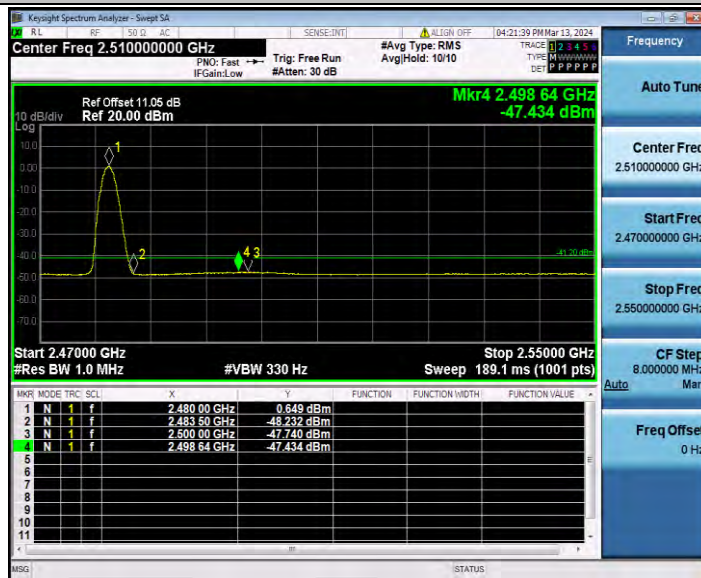




2DH1\_Ant1\_Low\_2402\_Peak



2DH1\_Ant1\_High\_2480\_AV



2DH1\_Ant1\_High\_2480\_Peak



