

Appendix: Bluetooth Classic

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**Appendix A: 20dB Emission Bandwidth****Test Result**

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.963	2401.535	2402.498	---	---
		2441	0.963	2440.535	2441.498	---	---
		2480	0.960	2479.535	2480.495	---	---
2DH5	Ant1	2402	1.086	2401.457	2402.543	---	---
		2441	1.083	2440.460	2441.543	---	---
		2480	1.275	2479.373	2480.648	---	---
3DH5	Ant1	2402	1.302	2401.352	2402.654	---	---
		2441	1.296	2440.355	2441.651	---	---
		2480	1.083	2479.451	2480.534	---	---

## Test Graphs

DH5\_Ant1\_2402



DH5\_Ant1\_2441



DH5\_Ant1\_2480



2DH5\_Ant1\_2402



2DH5\_Ant1\_2441



2DH5\_Ant1\_2480



3DH5\_Ant1\_2402



3DH5\_Ant1\_2441



3DH5\_Ant1\_2480

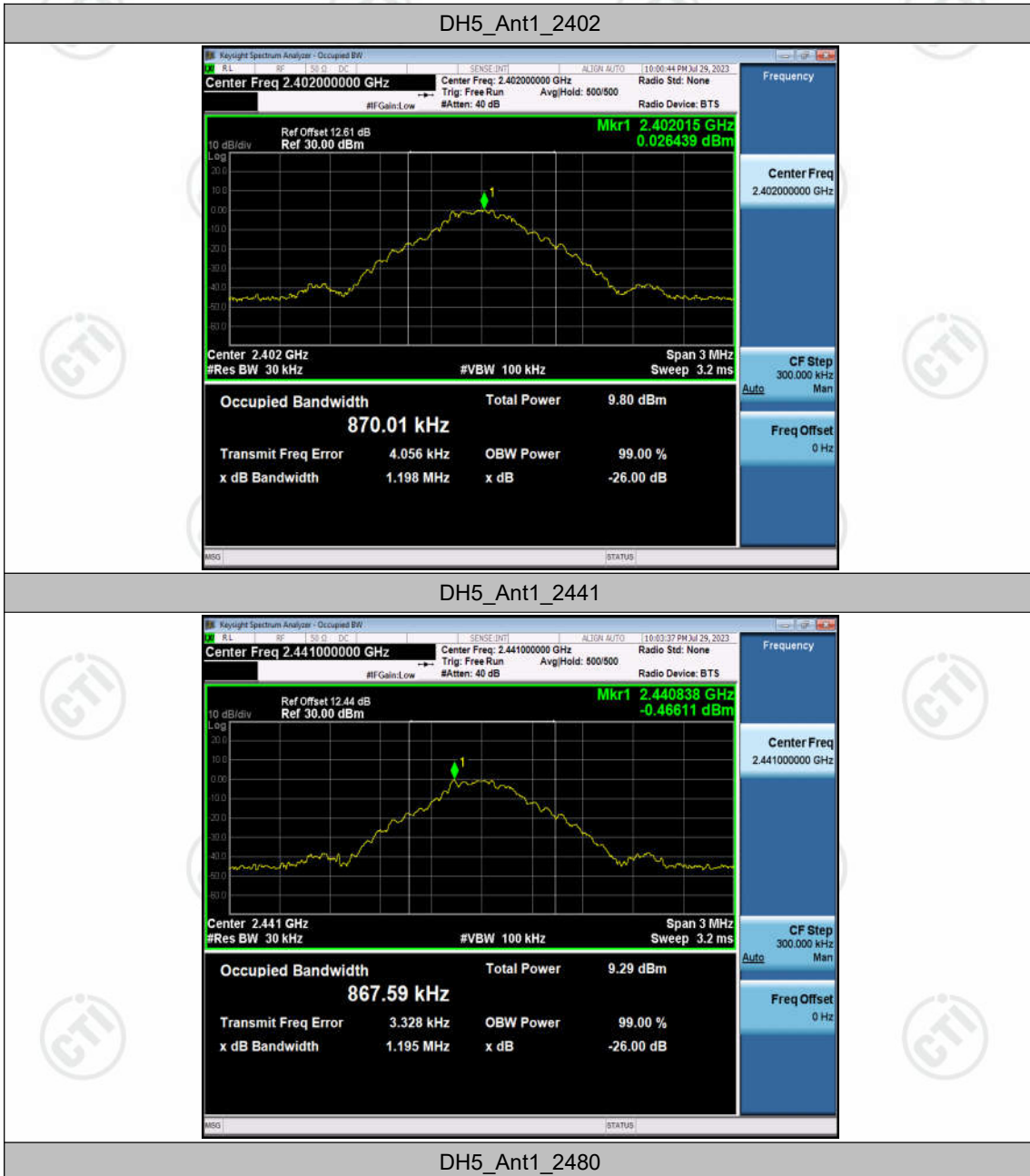




**Appendix B: Occupied Channel Bandwidth****Test Result**

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.87001	2401.5691	2402.4391	---	---
		2441	0.86759	2440.5695	2441.4371	---	---
		2480	0.86701	2479.5693	2480.4363	---	---
2DH5	Ant1	2402	1.1033	2401.4519	2402.5552	---	---
		2441	1.1080	2440.4500	2441.5580	---	---
		2480	1.1581	2479.4209	2480.5790	---	---
3DH5	Ant1	2402	1.1659	2401.4217	2402.5876	---	---
		2441	1.1675	2440.4204	2441.5879	---	---
		2480	1.1658	2479.4208	2480.5866	---	---

## Test Graphs





2DH5\_Ant1\_2402



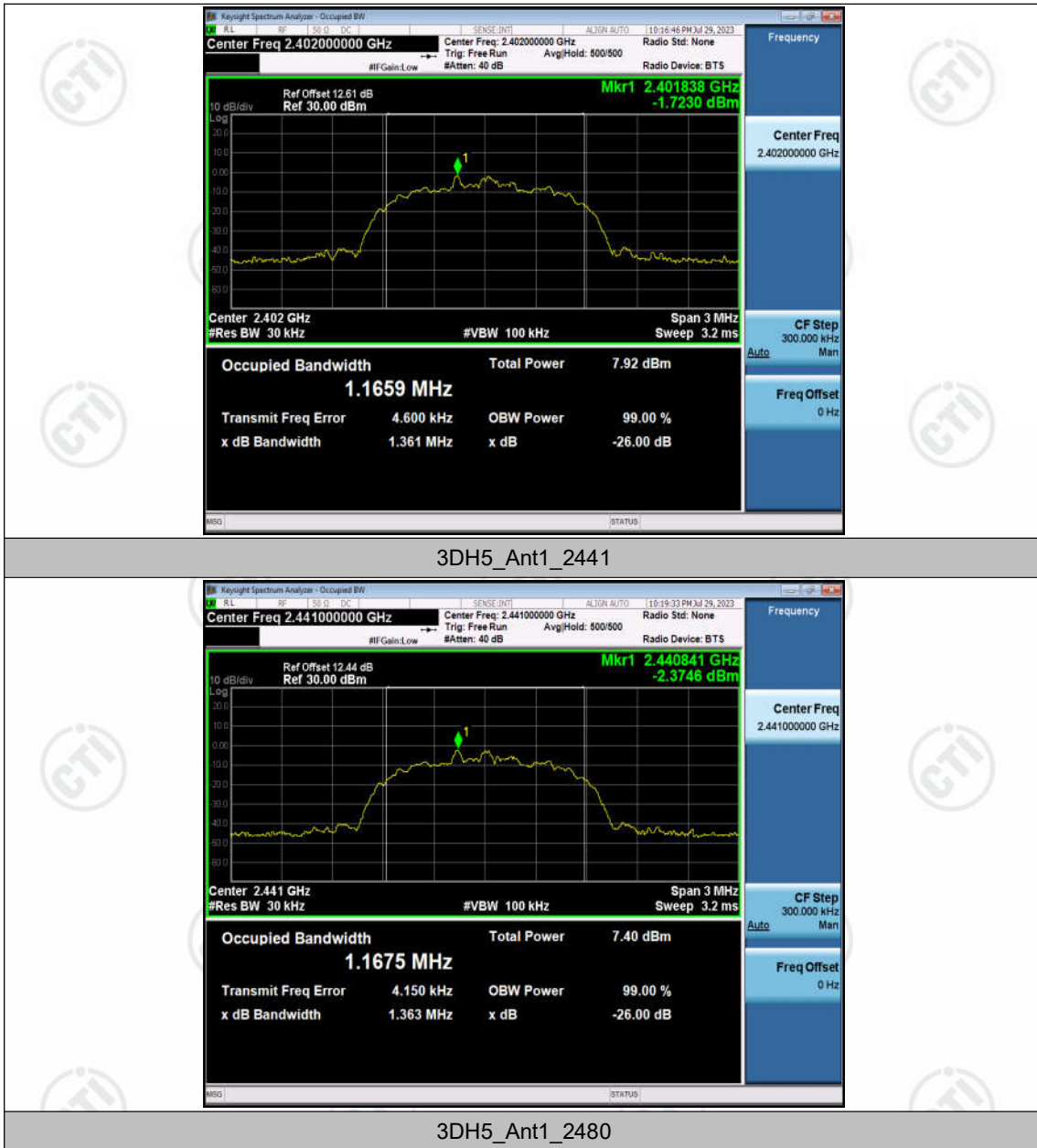
2DH5\_Ant1\_2441

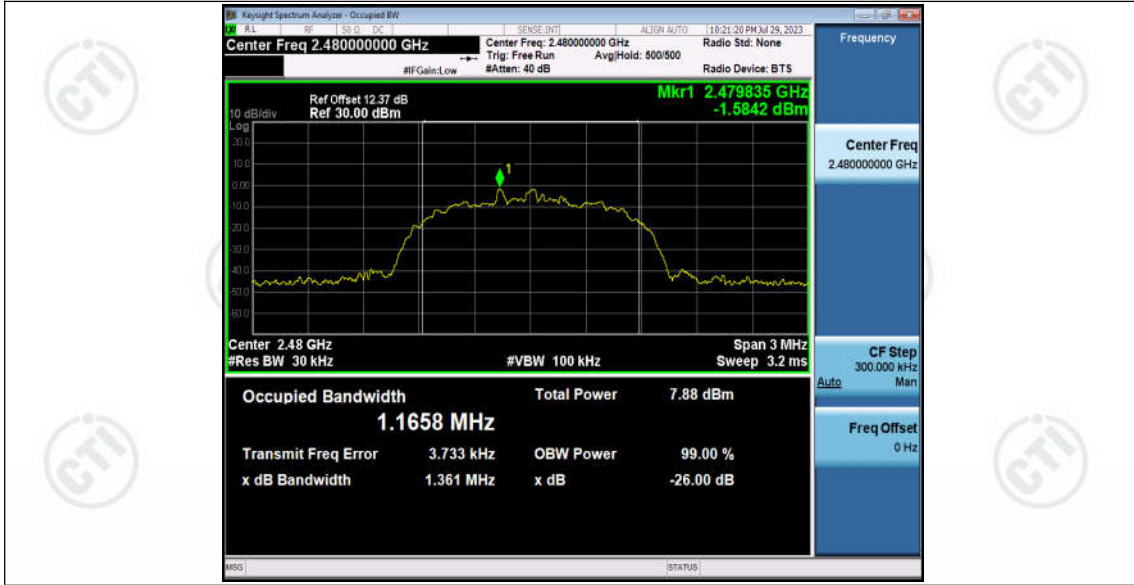


2DH5\_Ant1\_2480



3DH5\_Ant1\_2402



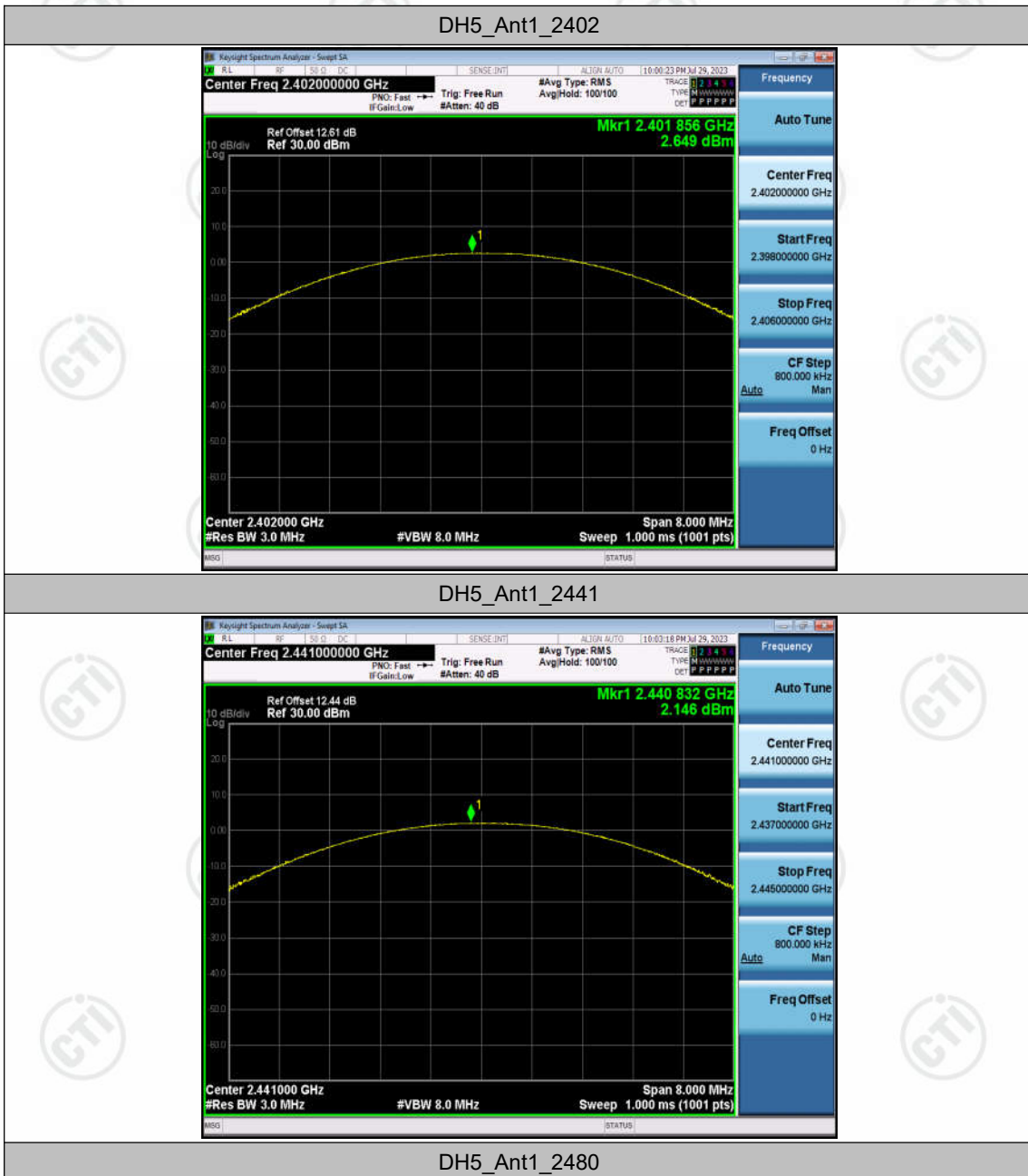


## Appendix C: Maximum conducted output power

### Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	2.65	≤30	PASS
		2441	2.15	≤20.97	PASS
		2480	2.98	≤20.97	PASS
2DH5	Ant1	2402	2.2	≤30	PASS
		2441	1.94	≤20.97	PASS
		2480	2.24	≤20.97	PASS
3DH5	Ant1	2402	2.67	≤30	PASS
		2441	2.03	≤20.97	PASS
		2480	<b>3.08</b>	≤20.97	PASS

## Test Graphs







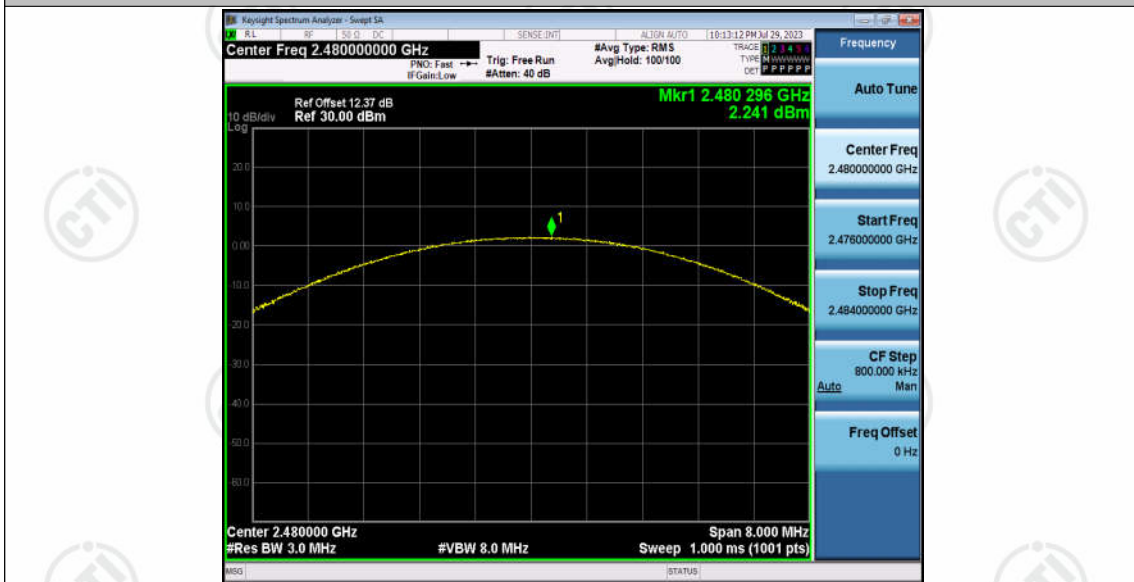
2DH5\_Ant1\_2402



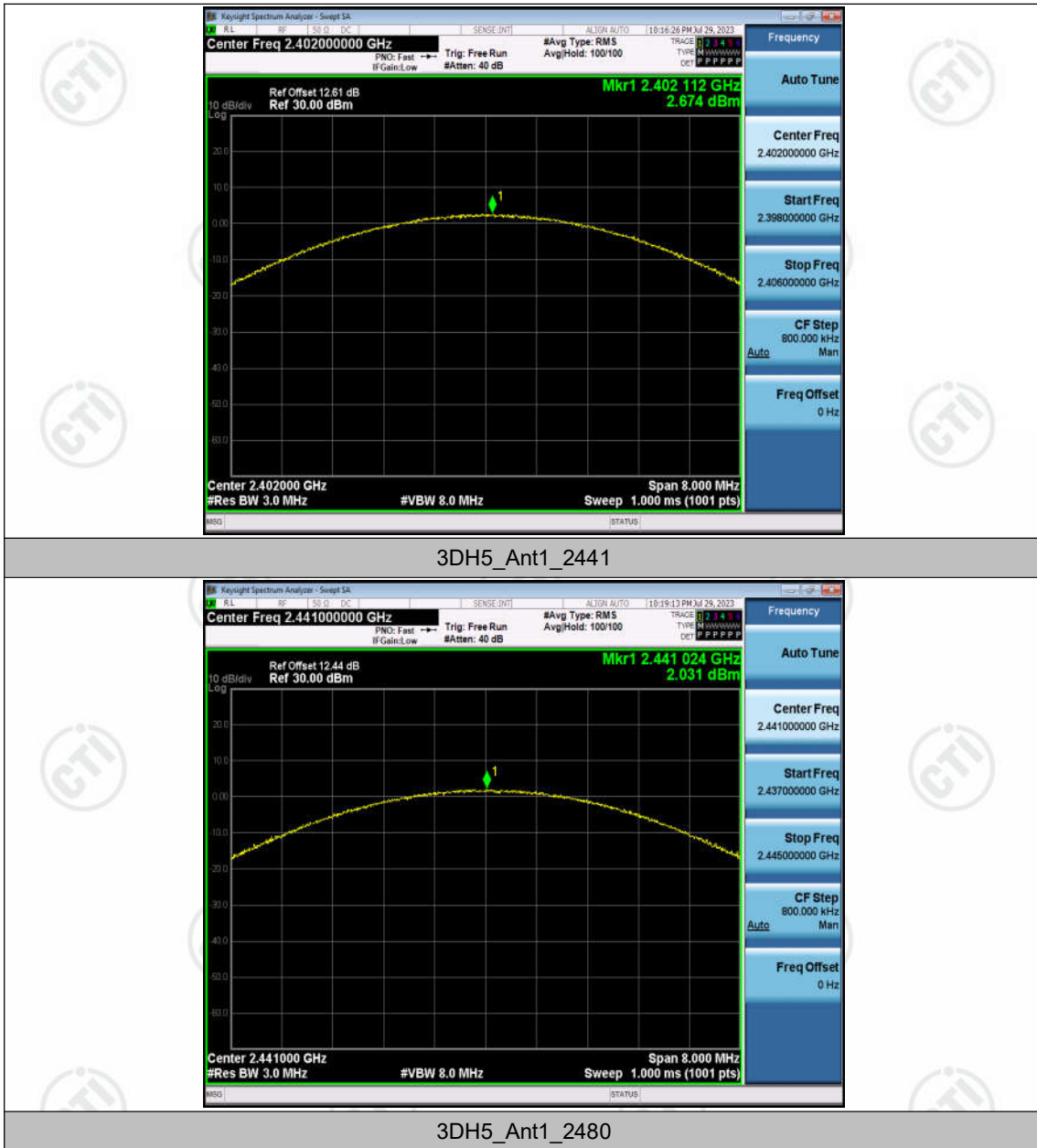
2DH5\_Ant1\_2441



2DH5\_Ant1\_2480



3DH5\_Ant1\_2402

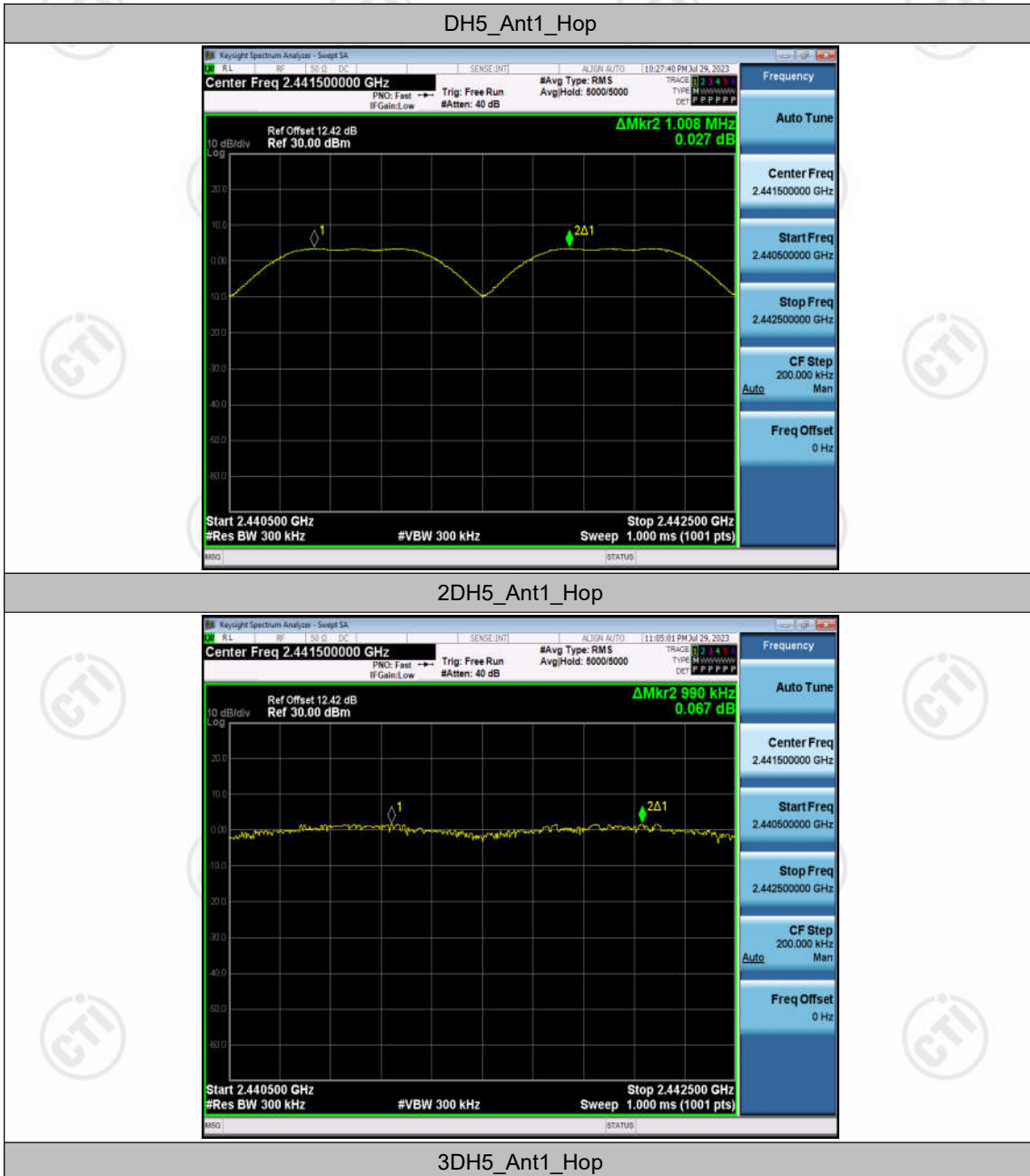




**Appendix D: Carrier frequency separation****Test Result**

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.008	≥0.963	PASS
2DH5	Ant1	Hop	0.99	≥0.850	PASS
3DH5	Ant1	Hop	1.01	≥0.868	PASS

## Test Graphs



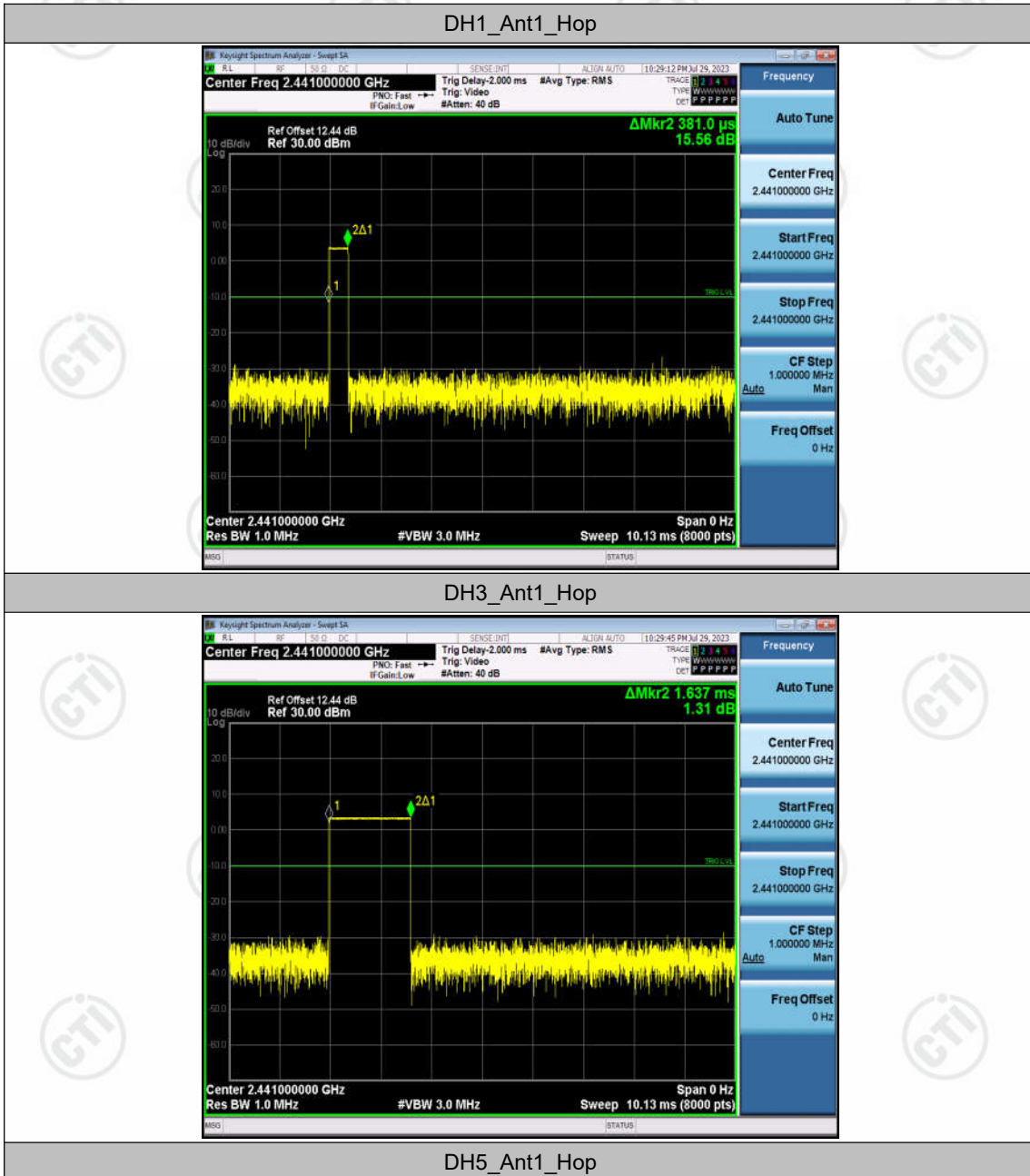


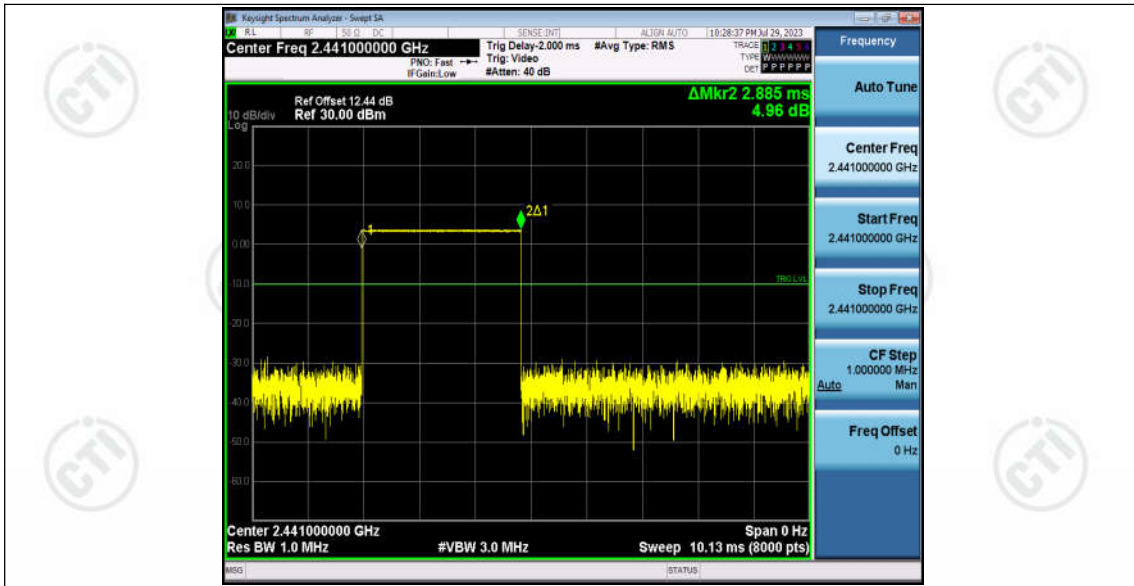
**Appendix E: Time of occupancy****Test Result**

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.381	320	0.122	≤0.4	PASS
DH3	Ant1	Hop	1.637	160	0.262	≤0.4	PASS
DH5	Ant1	Hop	2.885	106.67	0.308	≤0.4	PASS
2DH1	Ant1	Hop	0.390	320	0.125	≤0.4	PASS
2DH3	Ant1	Hop	1.642	160	0.263	≤0.4	PASS
2DH5	Ant1	Hop	2.891	106.67	0.308	≤0.4	PASS
3DH1	Ant1	Hop	0.390	320	0.125	≤0.4	PASS
3DH3	Ant1	Hop	1.640	160	0.262	≤0.4	PASS
3DH5	Ant1	Hop	2.892	106.67	0.308	≤0.4	PASS

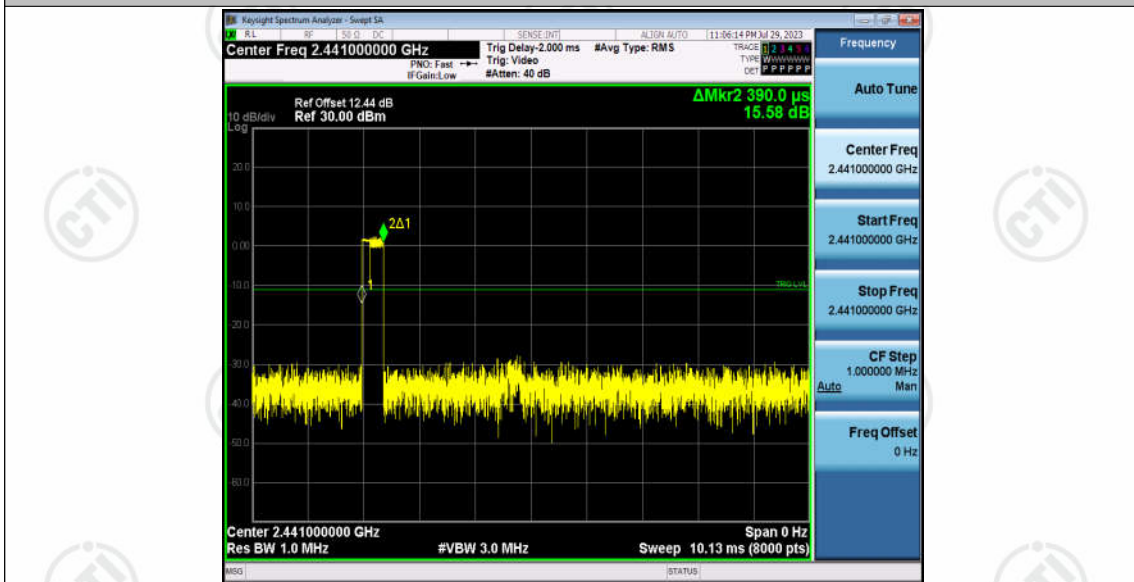


## Test Graphs

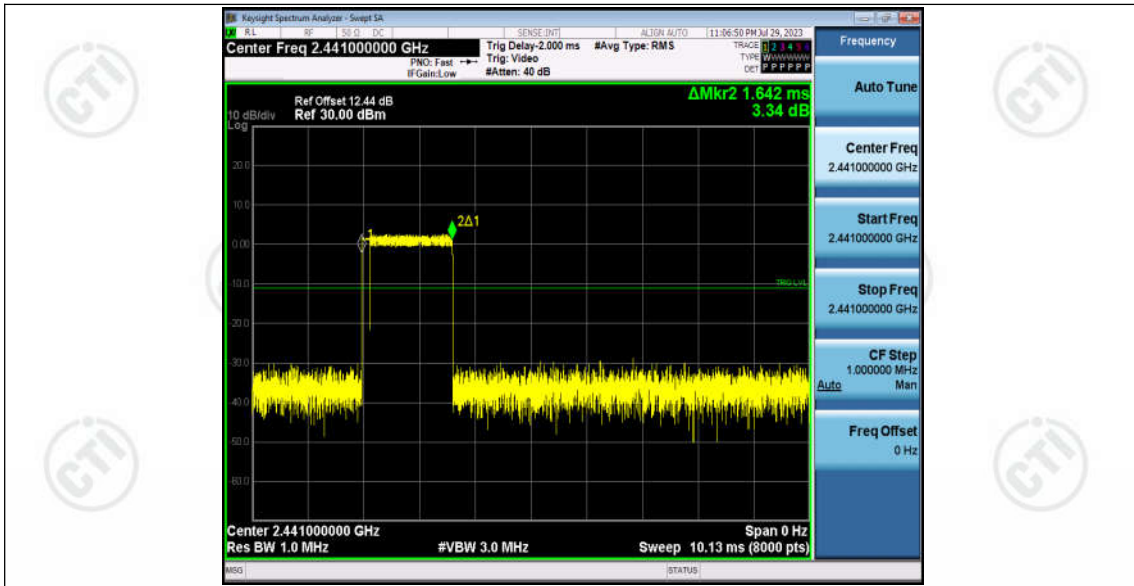




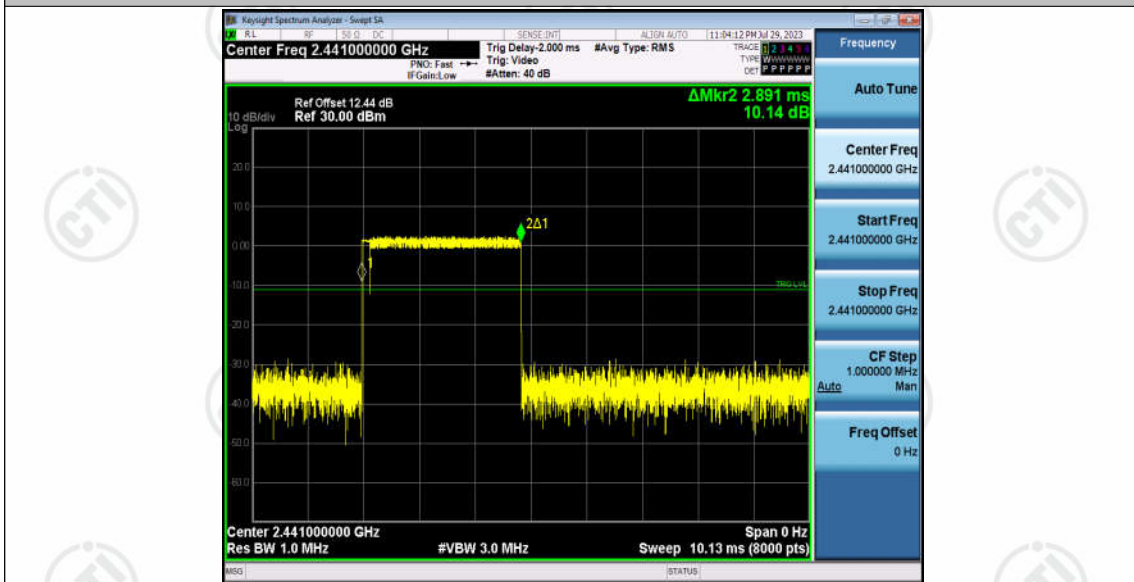
2DH1\_Ant1\_Hop



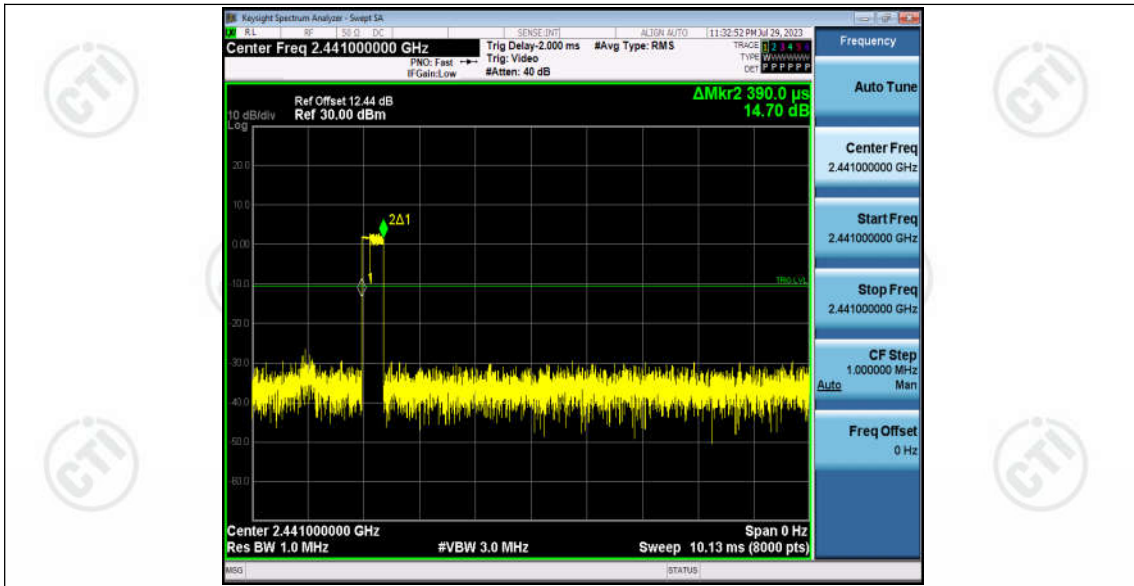
2DH3\_Ant1\_Hop



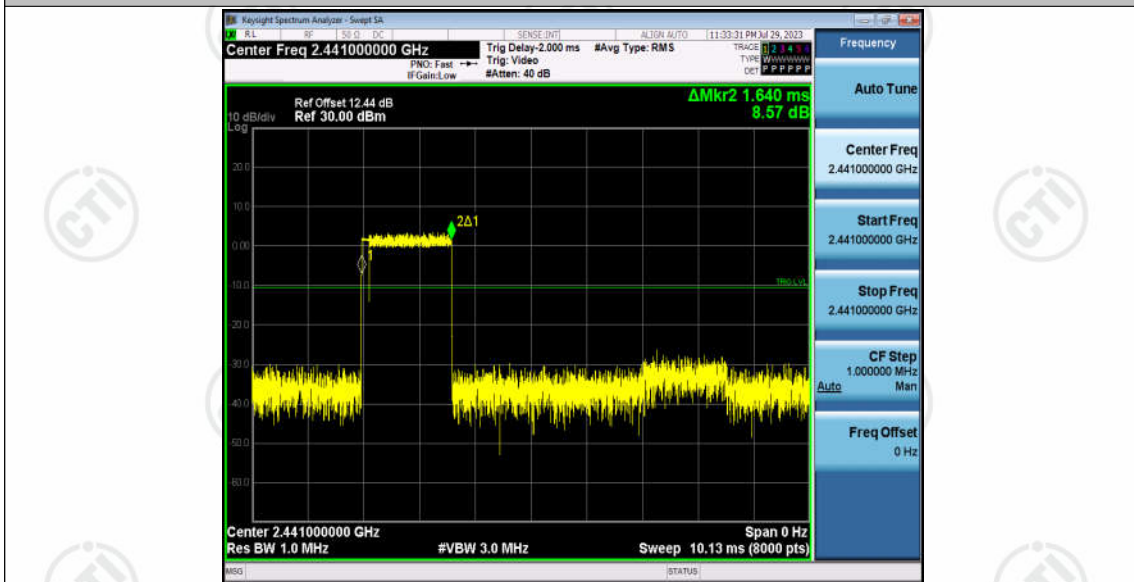
2DH5\_Ant1\_Hop



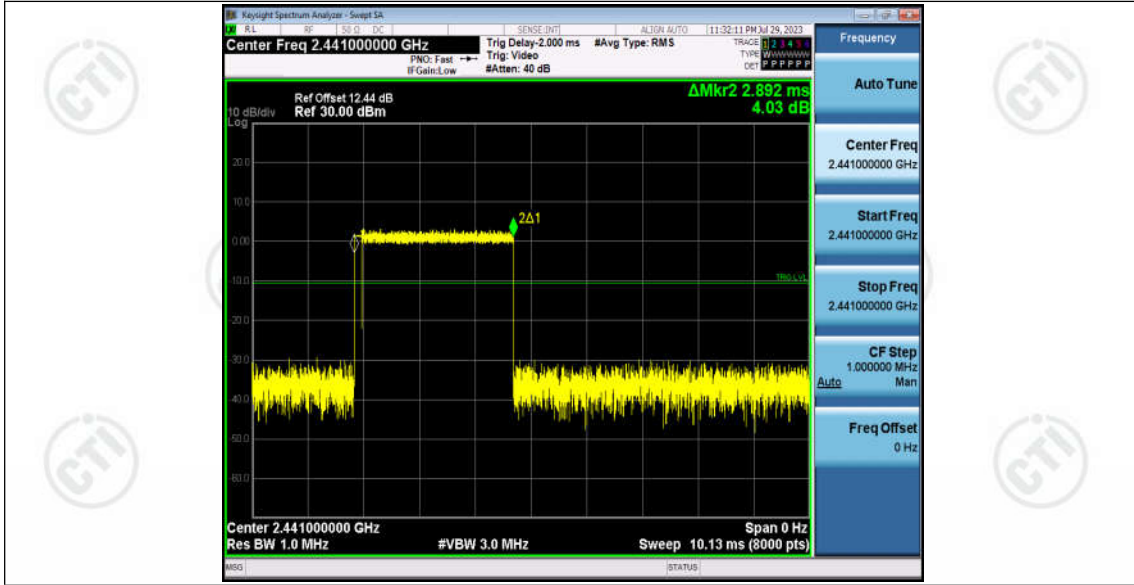
3DH1\_Ant1\_Hop



3DH3\_Ant1\_Hop



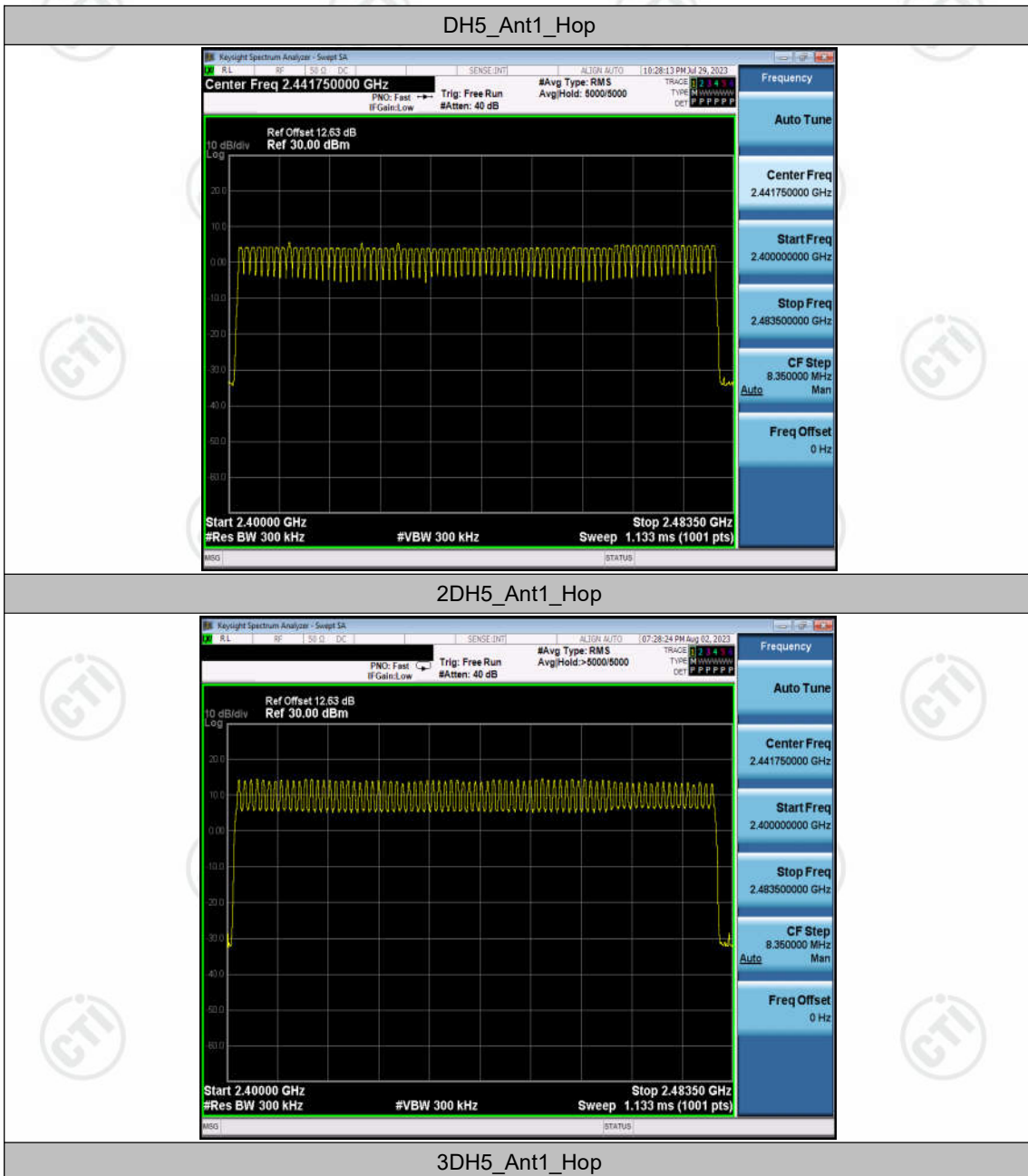
3DH5\_Ant1\_Hop

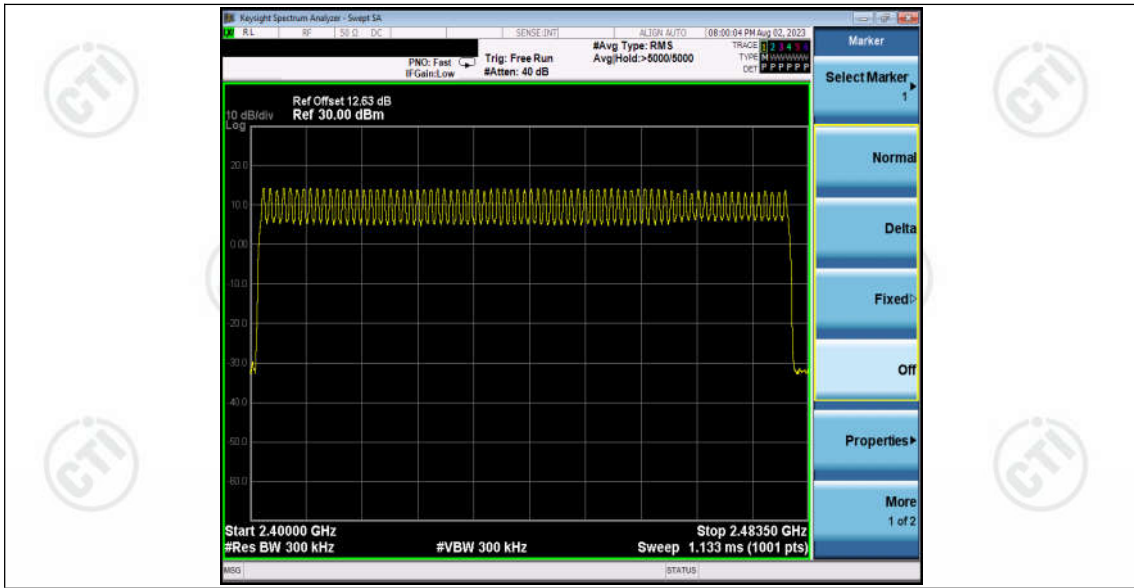


**Appendix F: Number of hopping channels****Test Result**

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

## Test Graphs





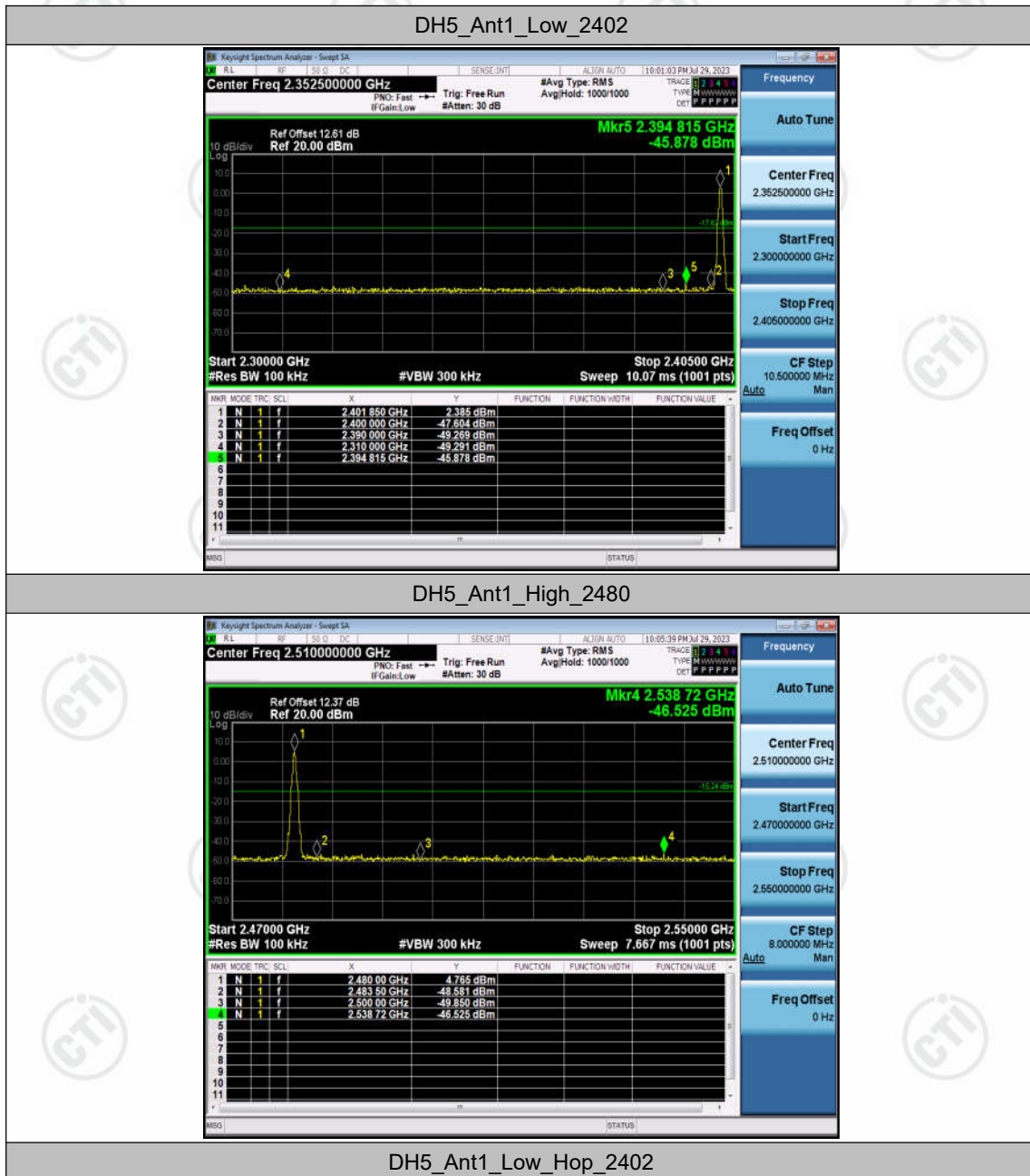


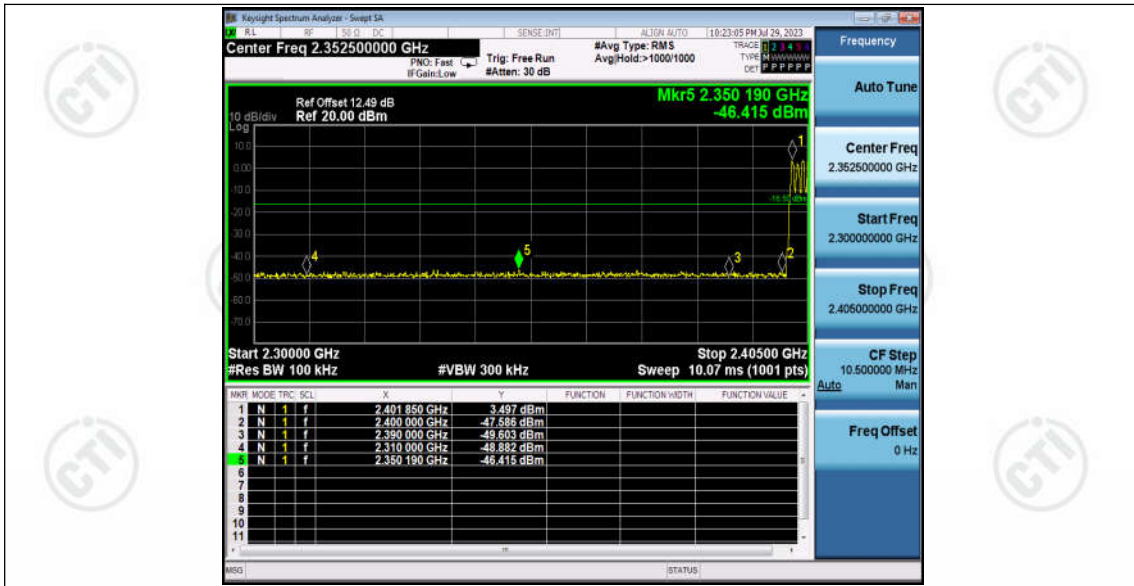
## Appendix G: Band edge measurements

### Test Result

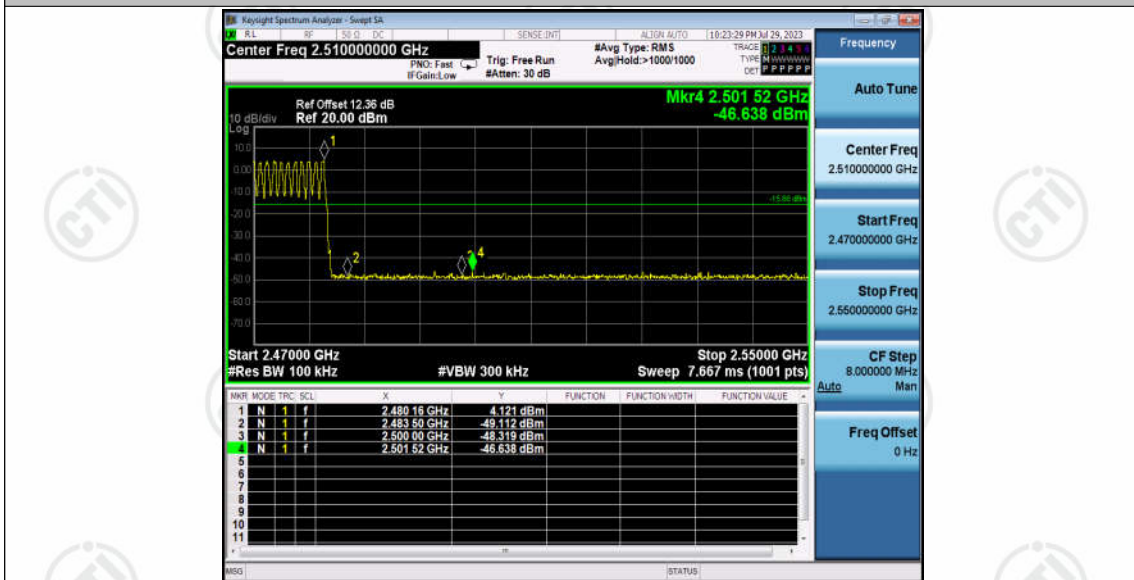
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.39	-45.88	≤-17.62	PASS
		High	2480	4.77	-46.53	≤-15.24	PASS
		Low	Hop_2402	3.50	-46.42	≤-16.5	PASS
		High	Hop_2480	4.12	-46.64	≤-15.88	PASS
2DH5	Ant1	Low	2402	6.17	-29.91	≤-13.83	PASS
		High	2480	1.01	-45.92	≤-18.99	PASS
		Low	Hop_2402	-0.45	-46.36	≤-20.45	PASS
		High	Hop_2480	2.15	-46.14	≤-17.85	PASS
3DH5	Ant1	Low	2402	0.43	-46.49	≤-19.57	PASS
		High	2480	5.09	-46.76	≤-14.91	PASS
		Low	Hop_2402	1.14	-45.29	≤-18.86	PASS
		High	Hop_2480	2.37	-46.66	≤-17.63	PASS

## Test Graphs

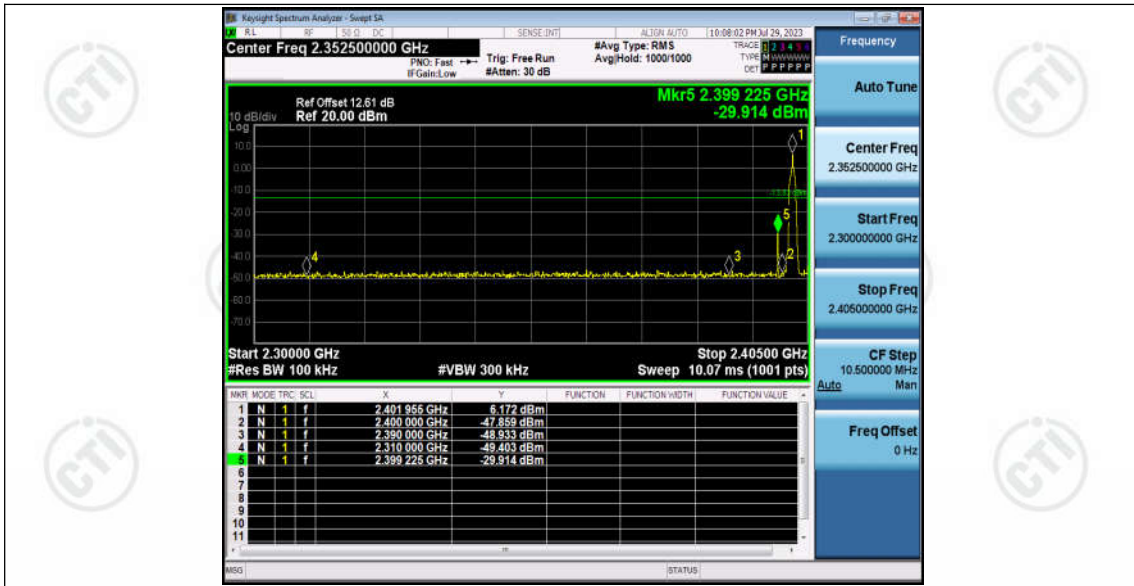




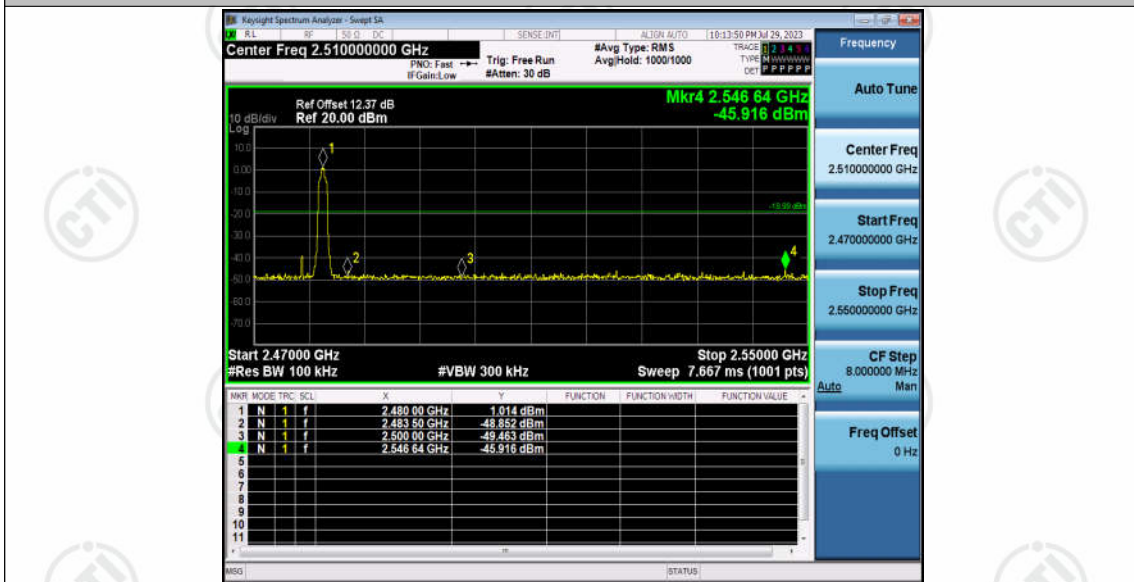
DH5\_Ant1\_High\_Hop\_2480



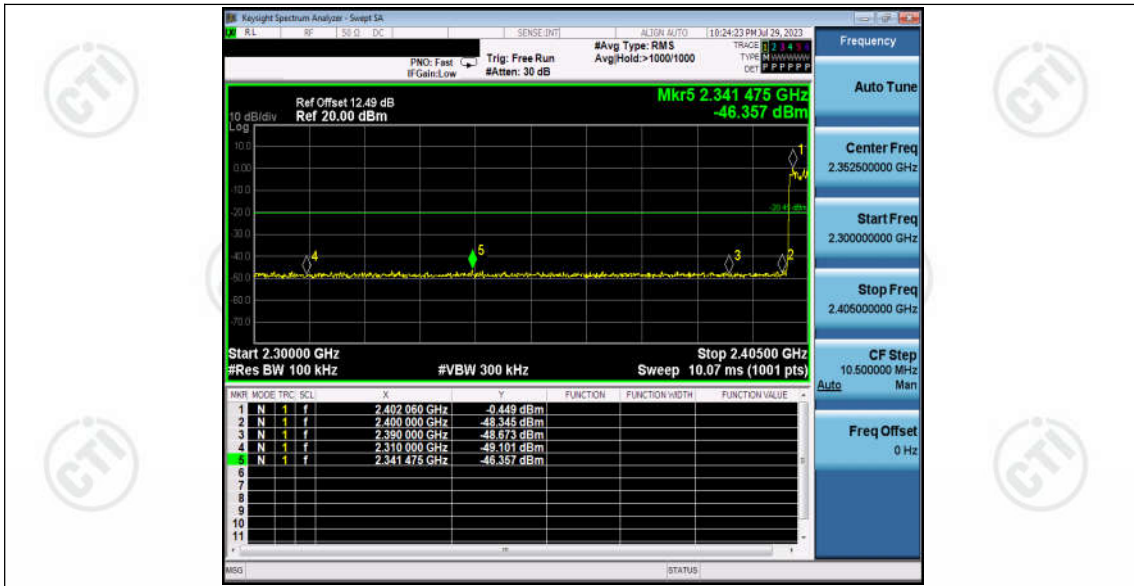
2DH5\_Ant1\_Low\_2402



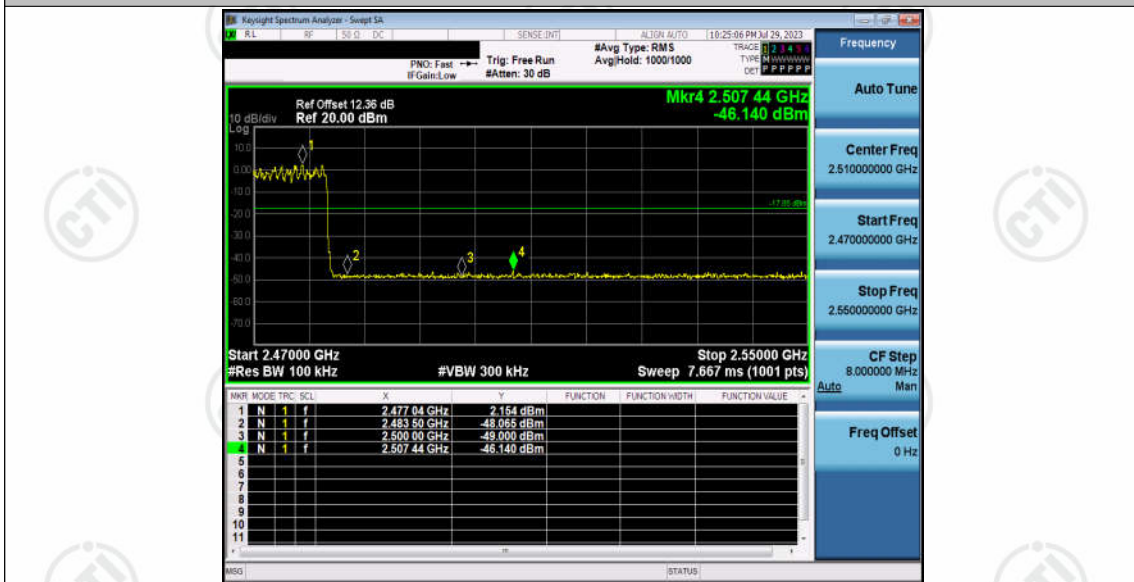
2DH5\_Ant1\_High\_2480



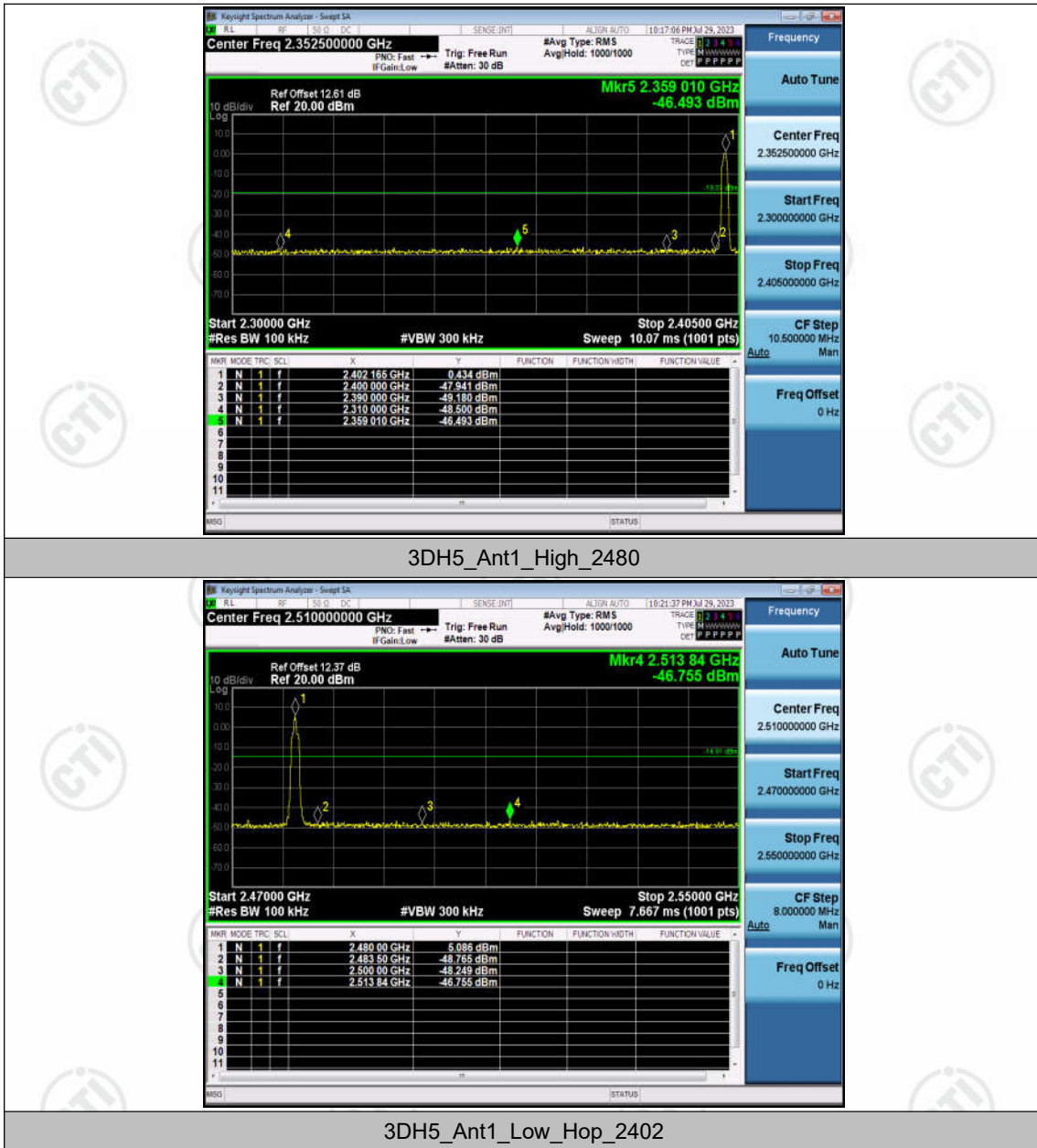
2DH5\_Ant1\_Low\_Hop\_2402

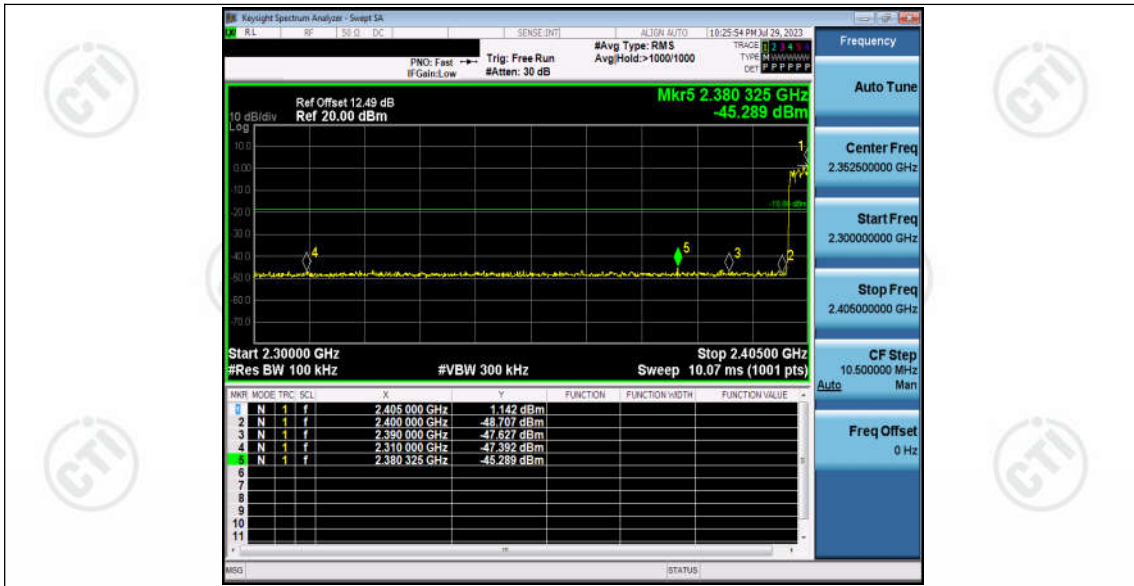


2DH5\_Ant1\_High\_Hop\_2480

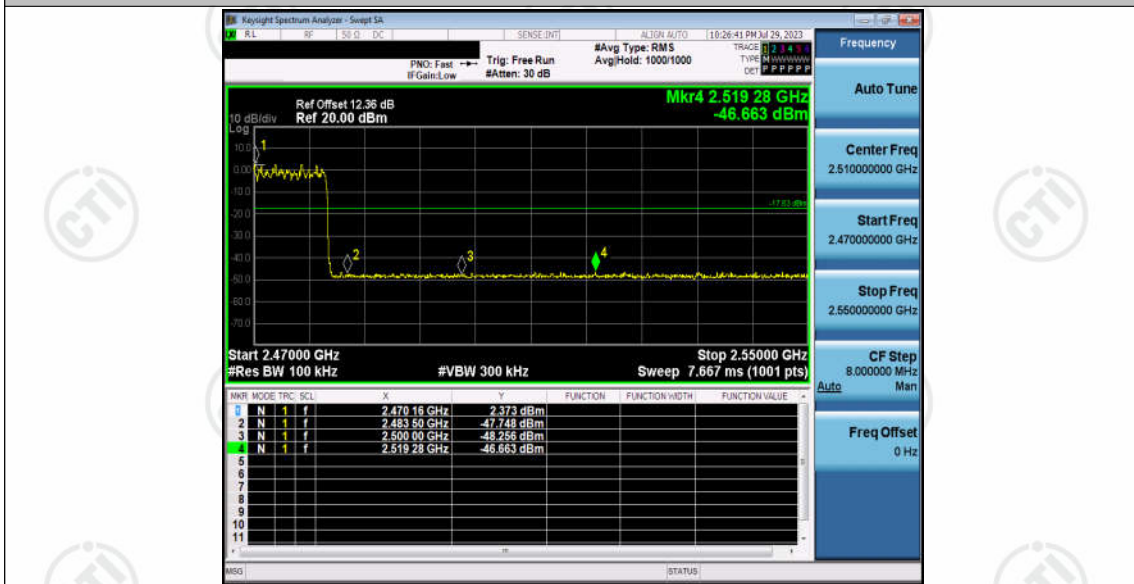


3DH5\_Ant1\_Low\_2402





3DH5\_Ant1\_High\_Hop\_2480



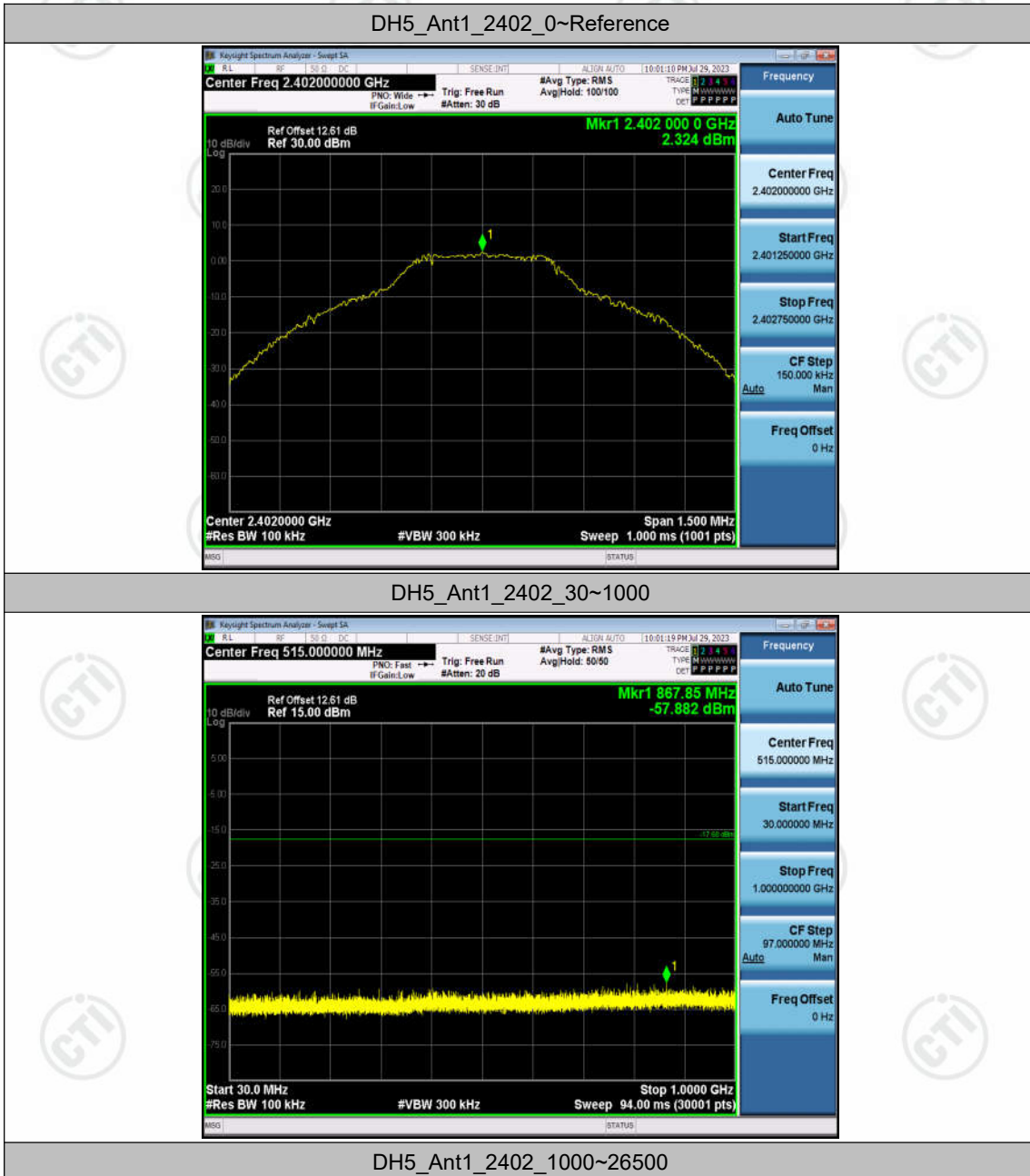
## Appendix H: Conducted Spurious Emission

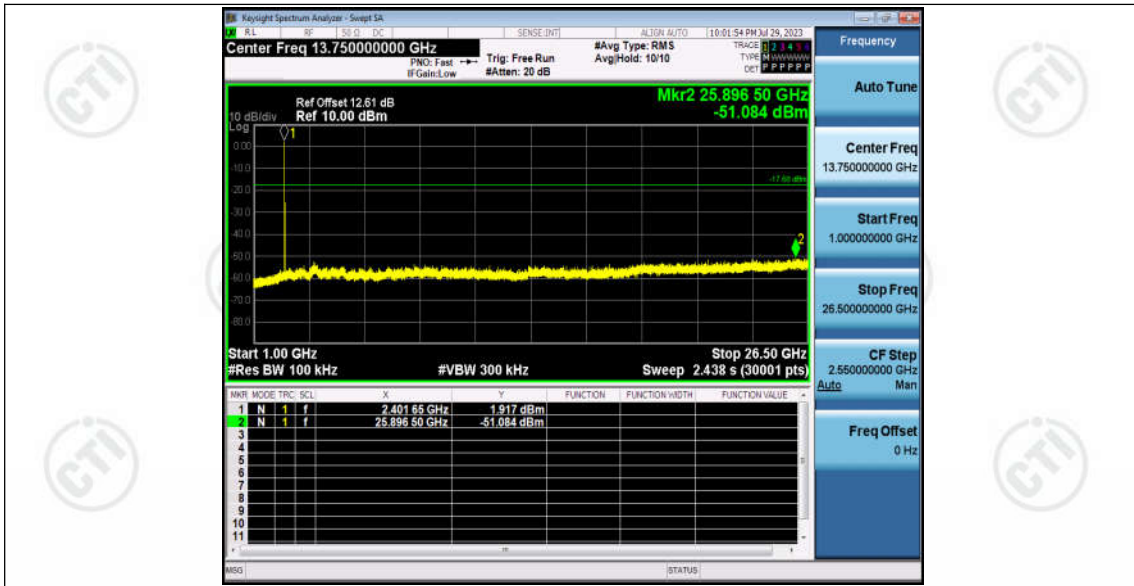
### Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.32	2.32	---	PASS
			30~1000	2.32	-57.88	≤-17.68	PASS
			1000~26500	2.32	-51.08	≤-17.68	PASS
		2441	Reference	1.59	1.59	---	PASS
			30~1000	1.59	-58.61	≤-18.41	PASS
			1000~26500	1.59	-51.02	≤-18.41	PASS
		2480	Reference	2.44	2.44	---	PASS
			30~1000	2.44	-58.86	≤-17.56	PASS
			1000~26500	2.44	-50.67	≤-17.56	PASS
2DH5	Ant1	2402	Reference	6.47	6.47	---	PASS
			30~1000	6.47	-58.26	≤-13.53	PASS
			1000~26500	6.47	-50.27	≤-13.53	PASS
		2441	Reference	-0.14	-0.14	---	PASS
			30~1000	-0.14	-58.29	≤-20.14	PASS
			1000~26500	-0.14	-49.77	≤-20.14	PASS
		2480	Reference	0.46	0.46	---	PASS
			30~1000	0.46	-58.11	≤-19.54	PASS
			1000~26500	0.46	-50.89	≤-19.54	PASS
3DH5	Ant1	2402	Reference	0.40	0.40	---	PASS
			30~1000	0.40	-58.06	≤-19.6	PASS
			1000~26500	0.40	-50.59	≤-19.6	PASS
		2441	Reference	-0.56	-0.56	---	PASS
			30~1000	-0.56	-57.87	≤-20.56	PASS
			1000~26500	-0.56	-50.75	≤-20.56	PASS
		2480	Reference	0.75	0.75	---	PASS
			30~1000	0.75	-58.49	≤-19.25	PASS
			1000~26500	0.75	-50.45	≤-19.25	PASS



## Test Graphs





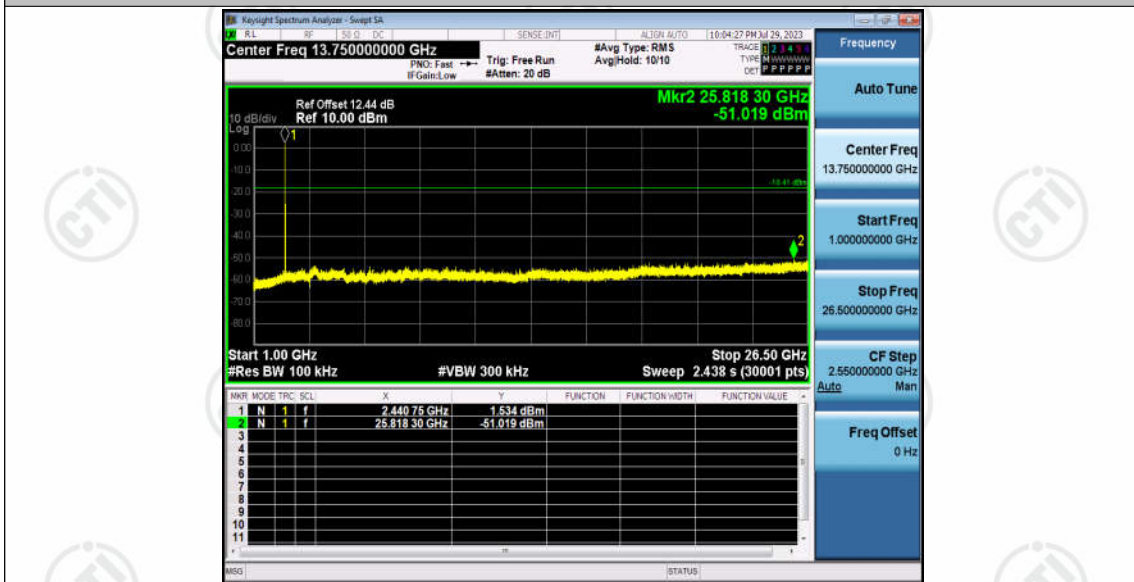
DH5\_Ant1\_2441\_0~Reference



DH5\_Ant1\_2441\_30~1000



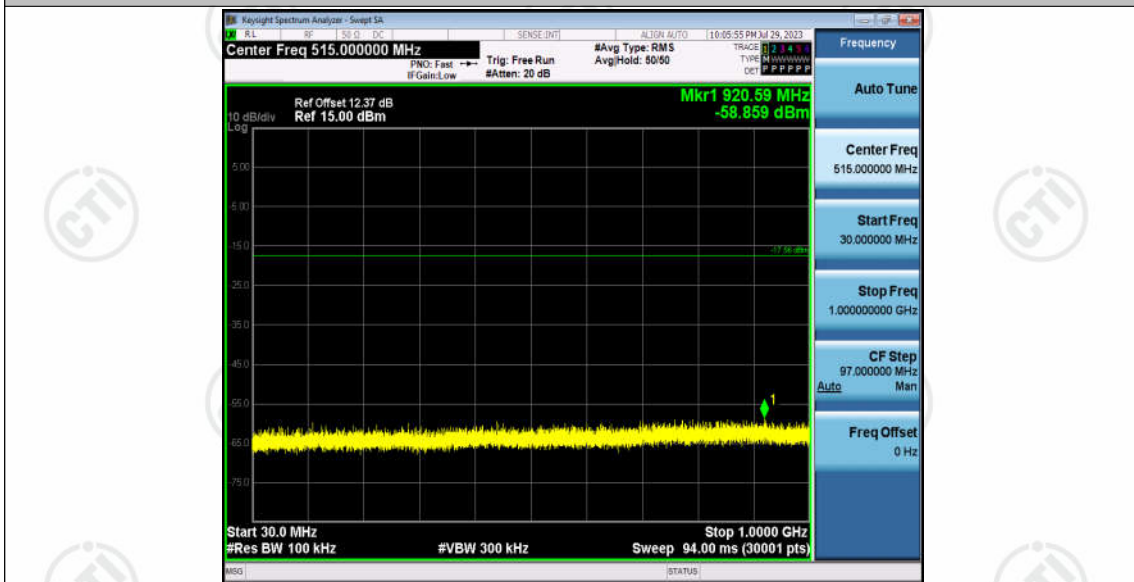
DH5\_Ant1\_2441\_1000~26500



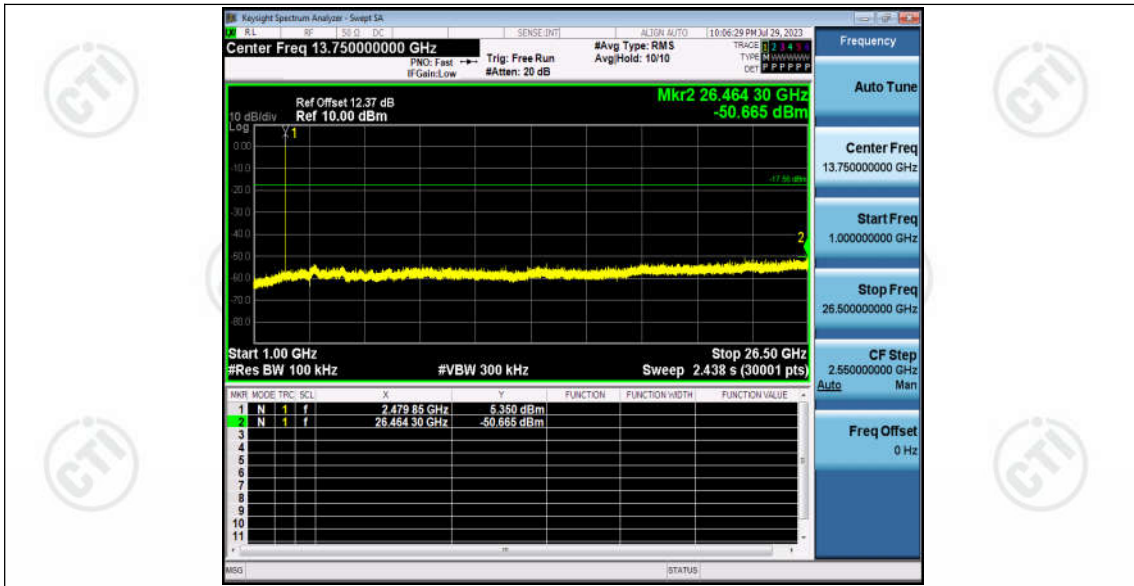
DH5\_Ant1\_2480\_0~Reference



DH5\_Ant1\_2480\_30~1000



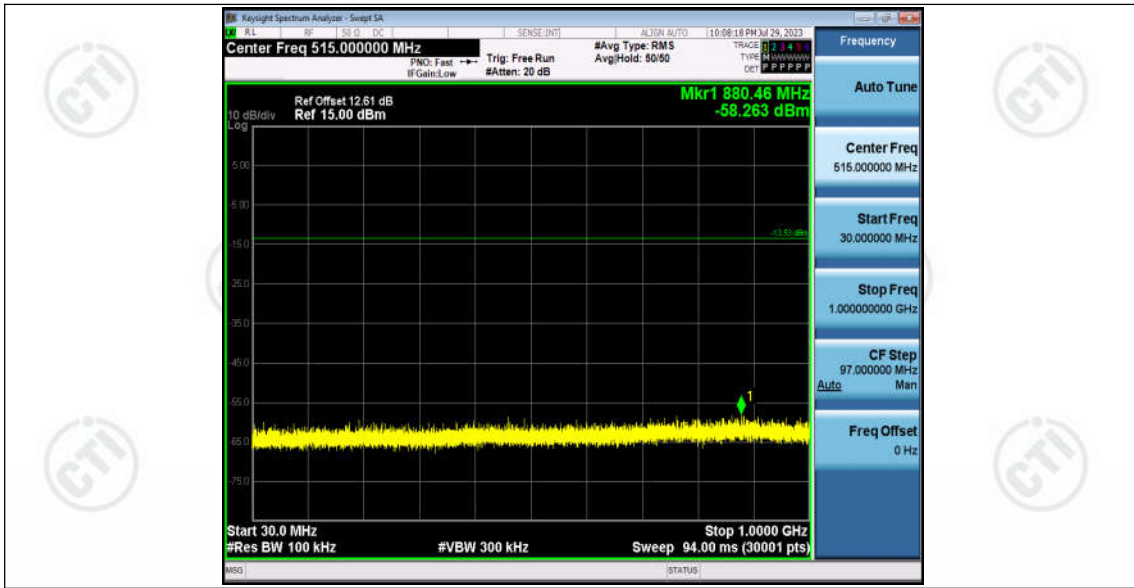
DH5\_Ant1\_2480\_1000~26500



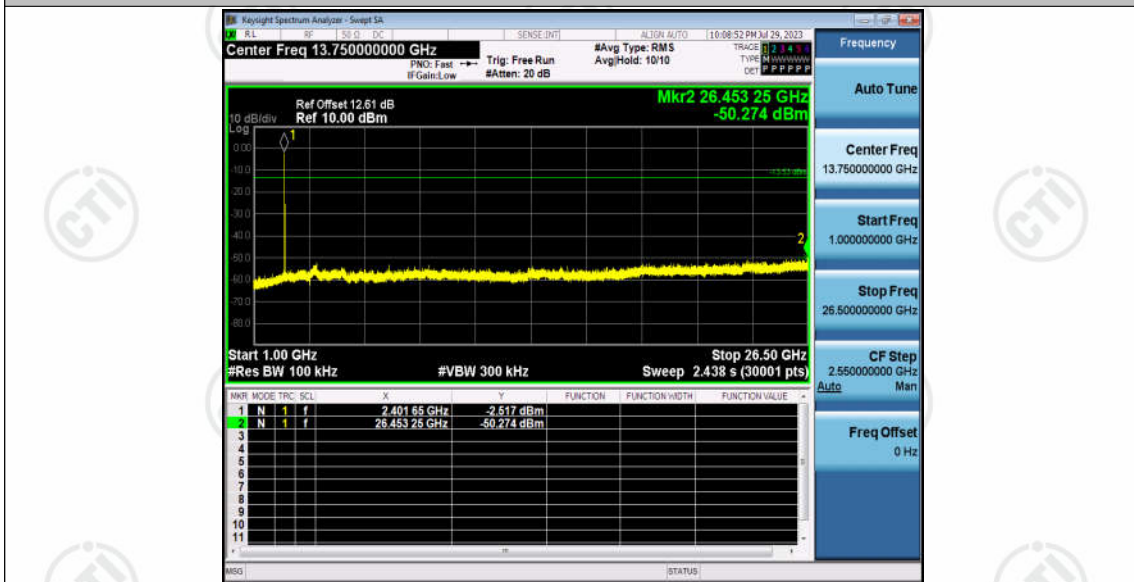
2DH5\_Ant1\_2402\_0~Reference



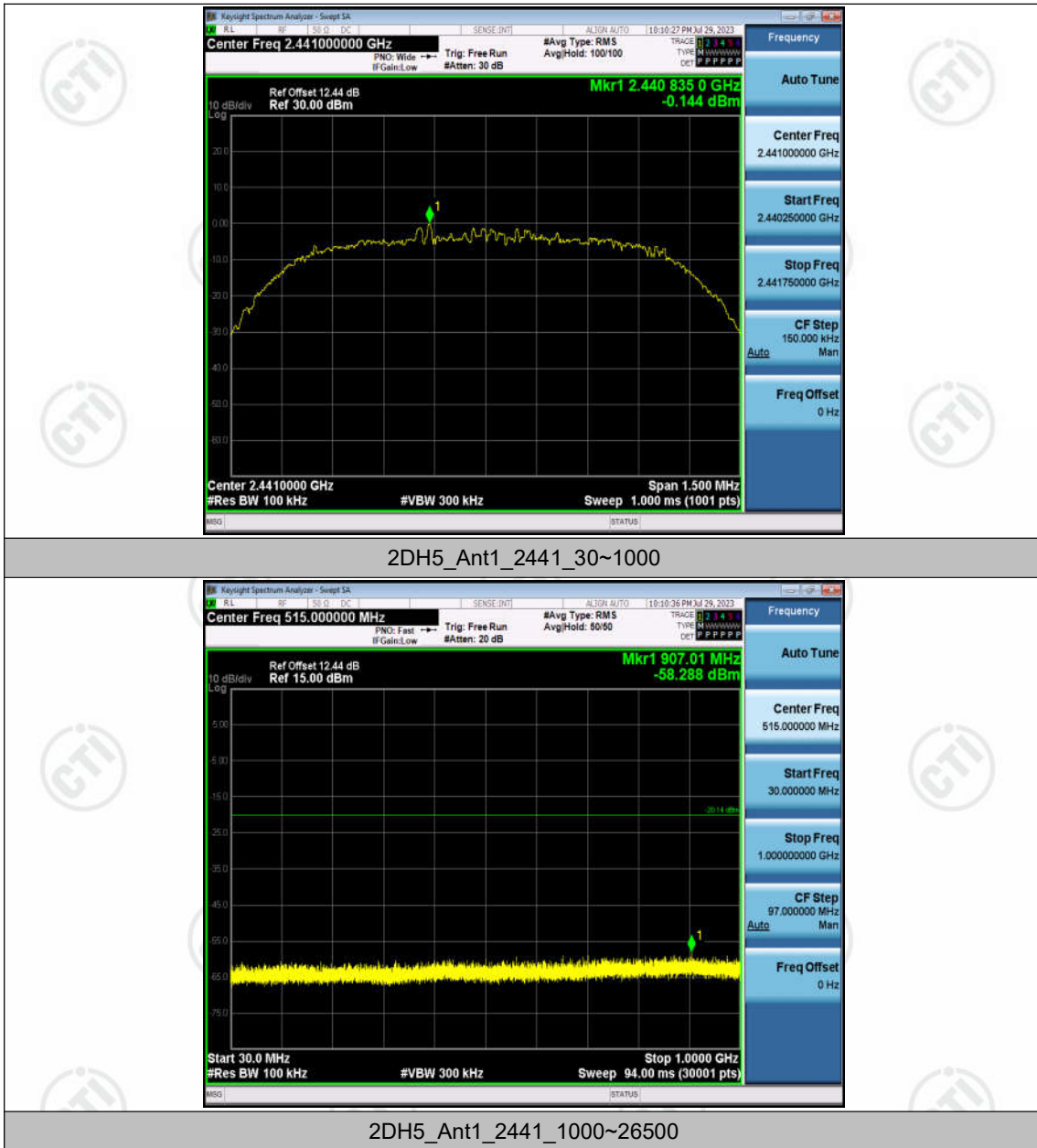
2DH5\_Ant1\_2402\_30~1000

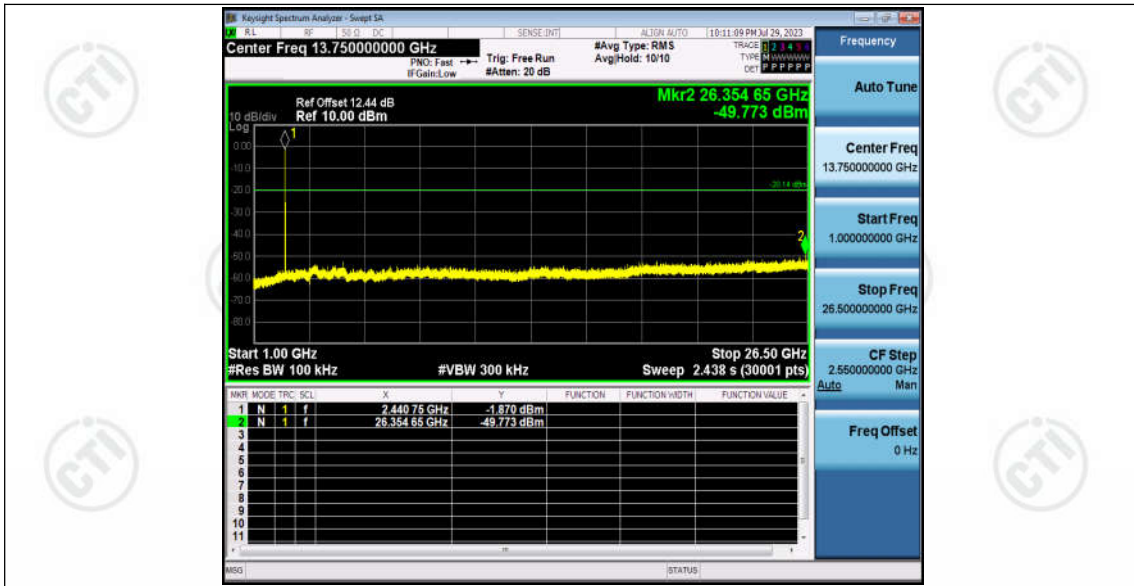


2DH5\_Ant1\_2402\_1000~26500



2DH5\_Ant1\_2441\_0~Reference





2DH5\_Ant1\_2480\_0~Reference

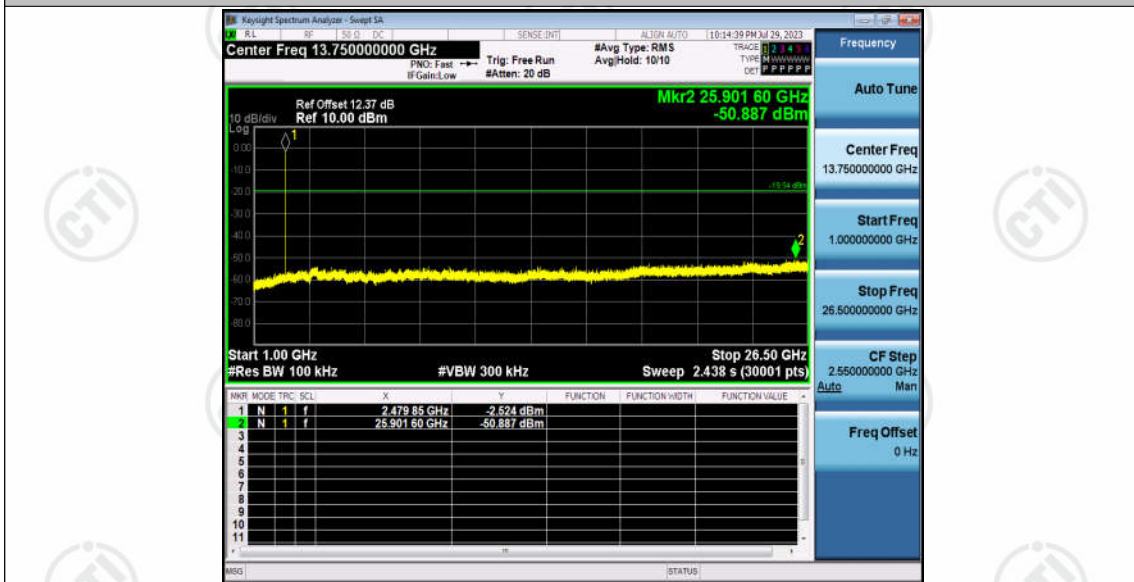


2DH5\_Ant1\_2480\_30~1000

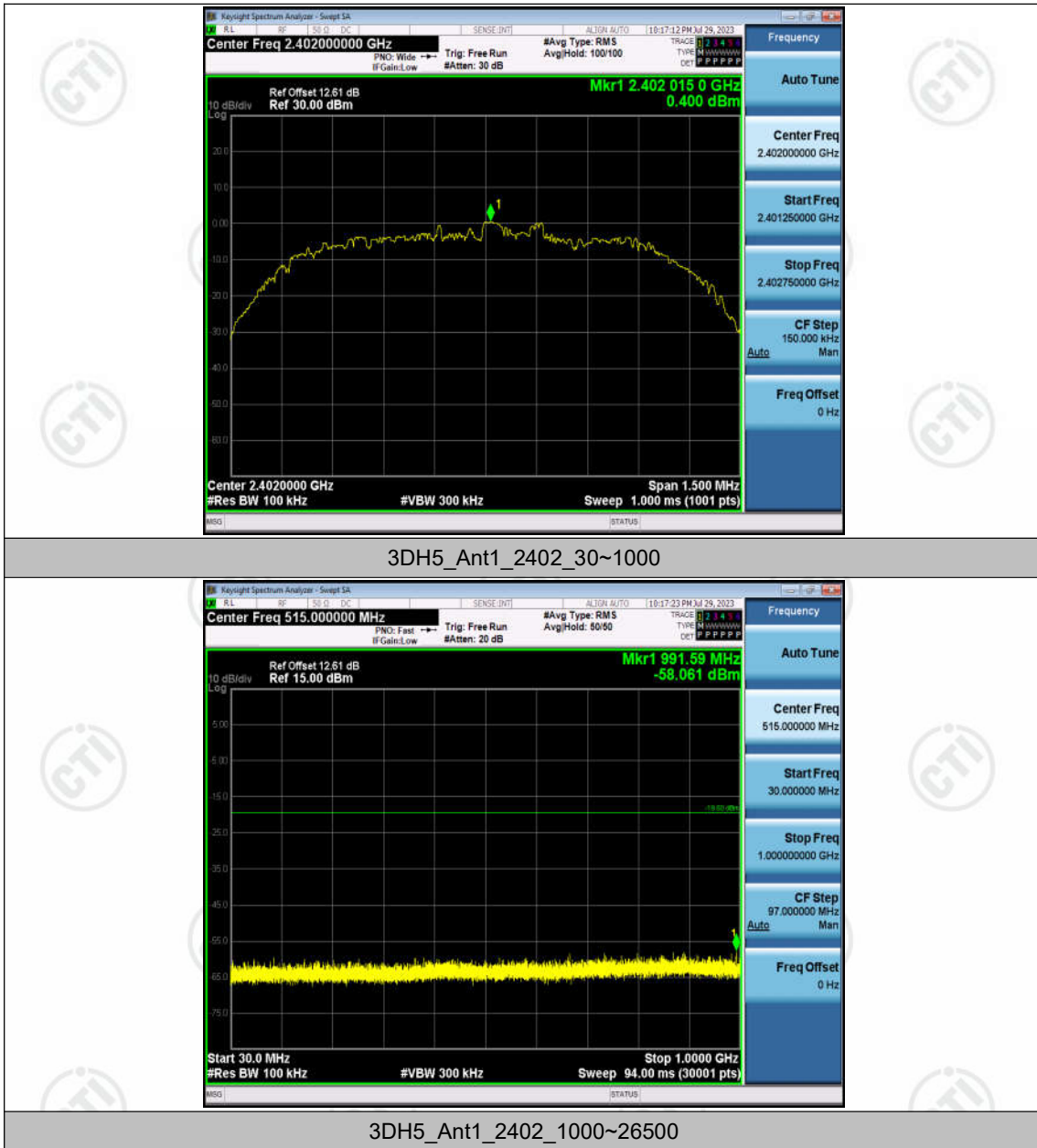


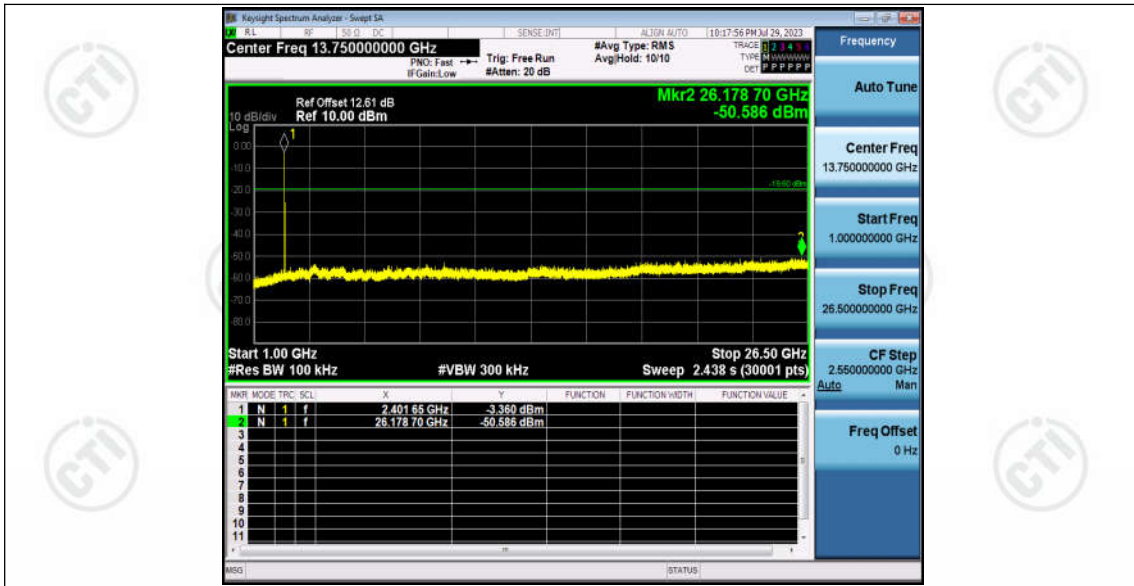


2DH5\_Ant1\_2480\_1000~26500



3DH5\_Ant1\_2402\_0~Reference

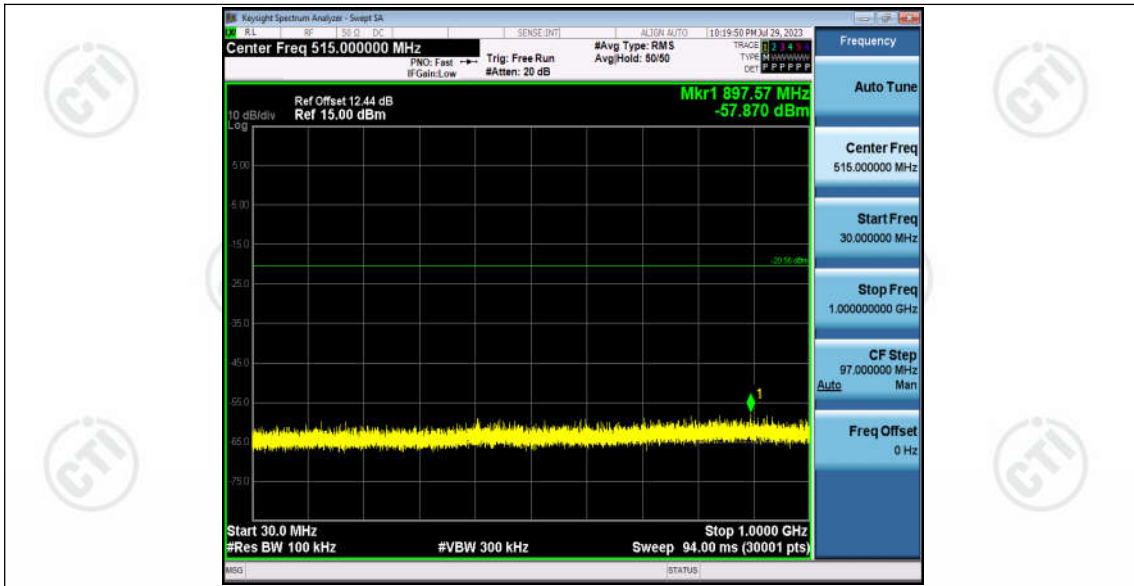




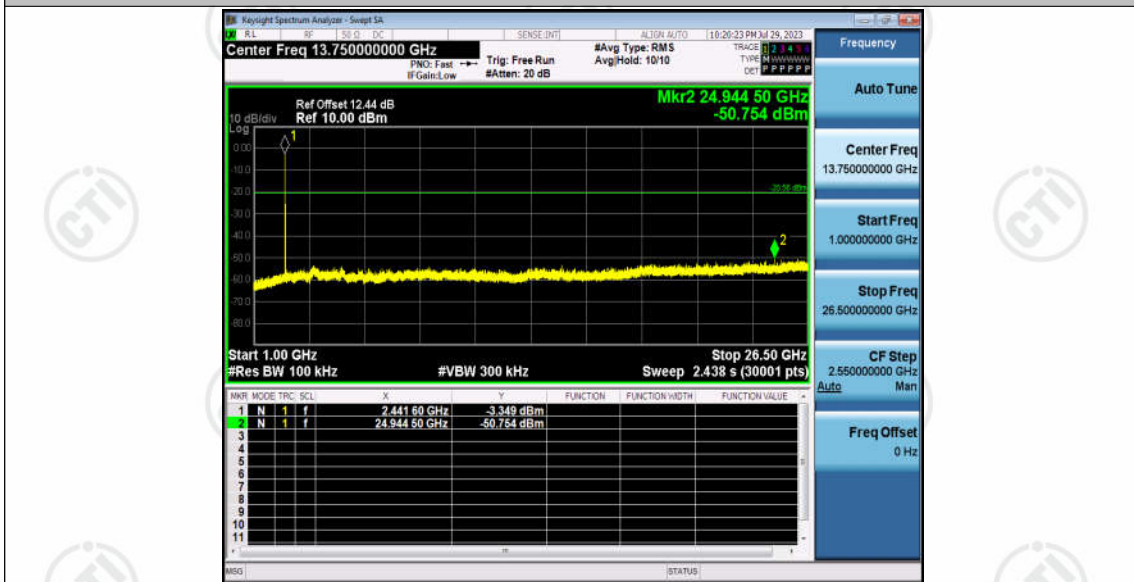
3DH5\_Ant1\_2441\_0~Reference



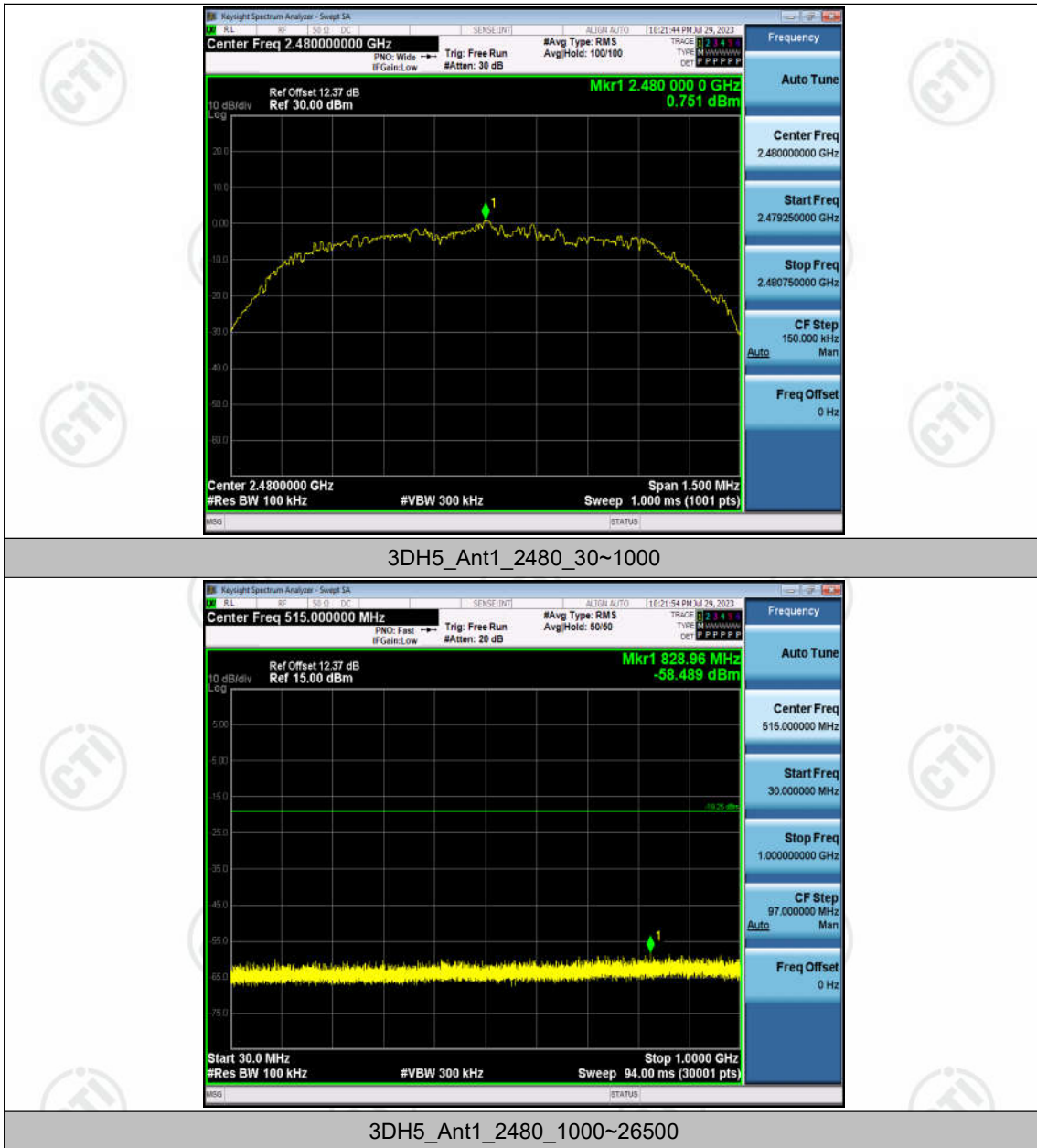
3DH5\_Ant1\_2441\_30~1000

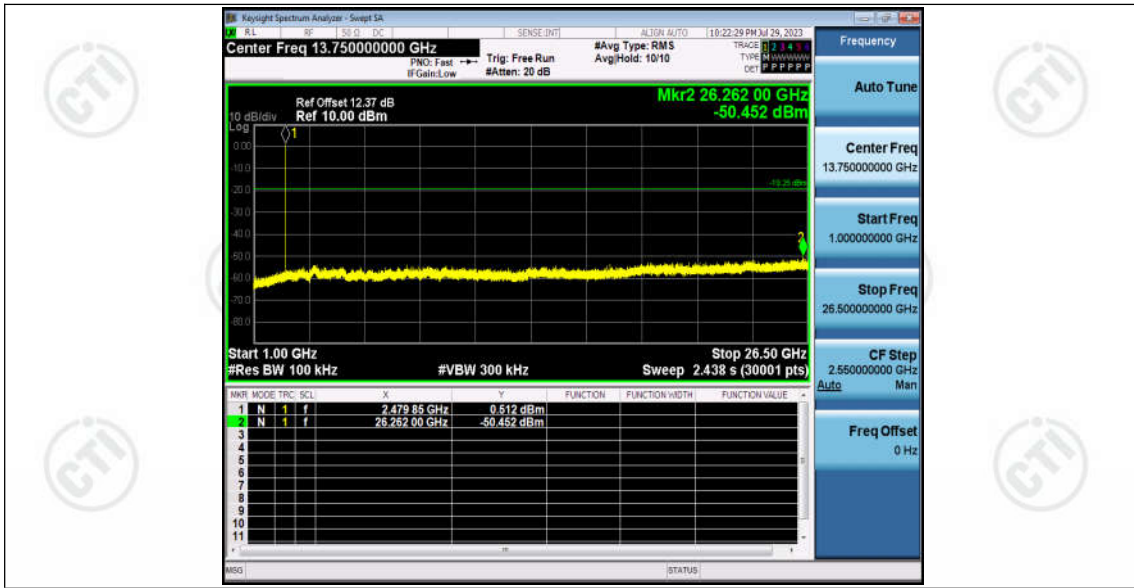


3DH5\_Ant1\_2441\_1000~26500



3DH5\_Ant1\_2480\_0~Reference





\*\*\*END OF REPORT\*\*\*