

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Multi-Functional Mag Table

Test Model: GF-20

Environmental Conditions

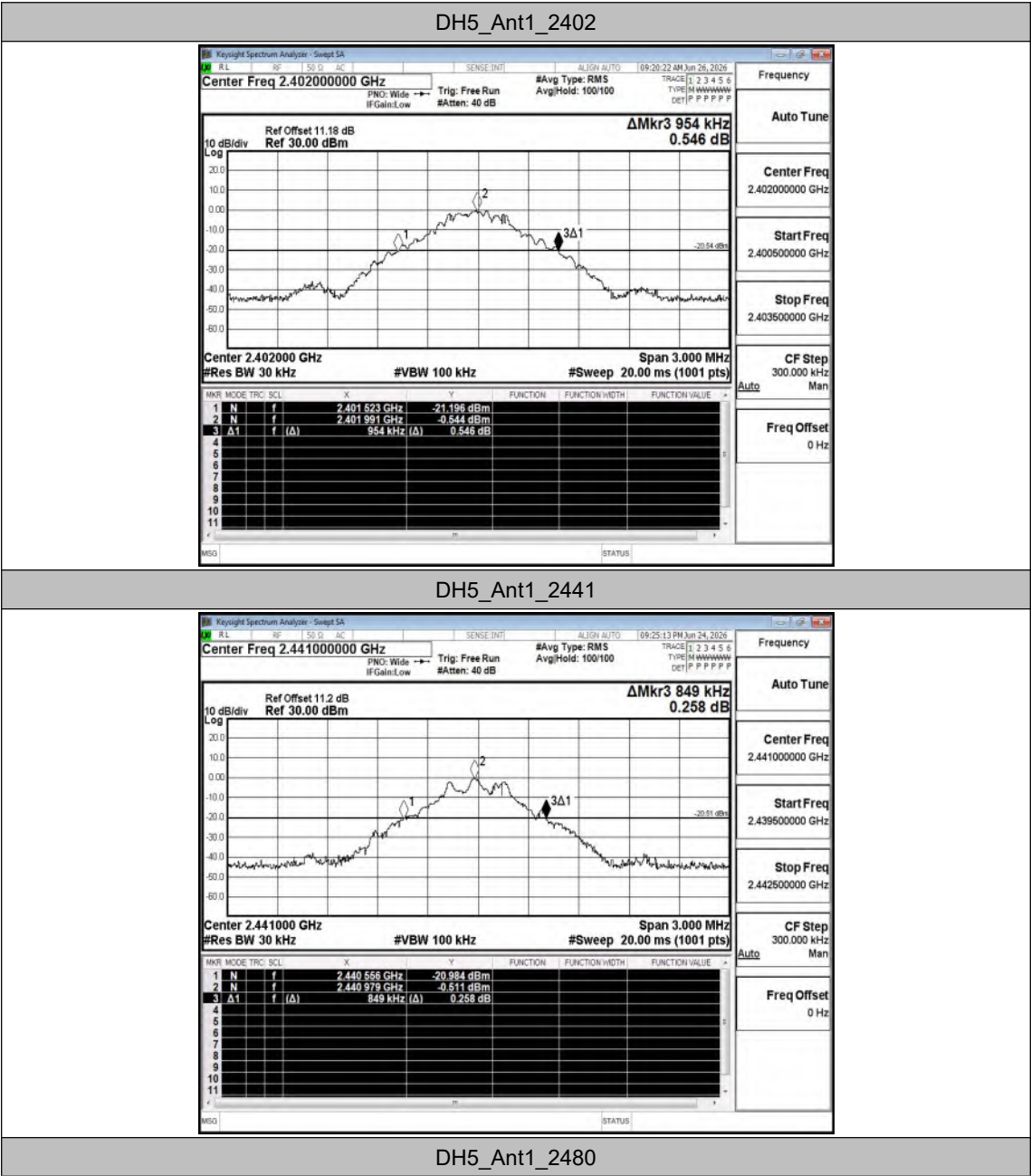
Temperature:	24.5°C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

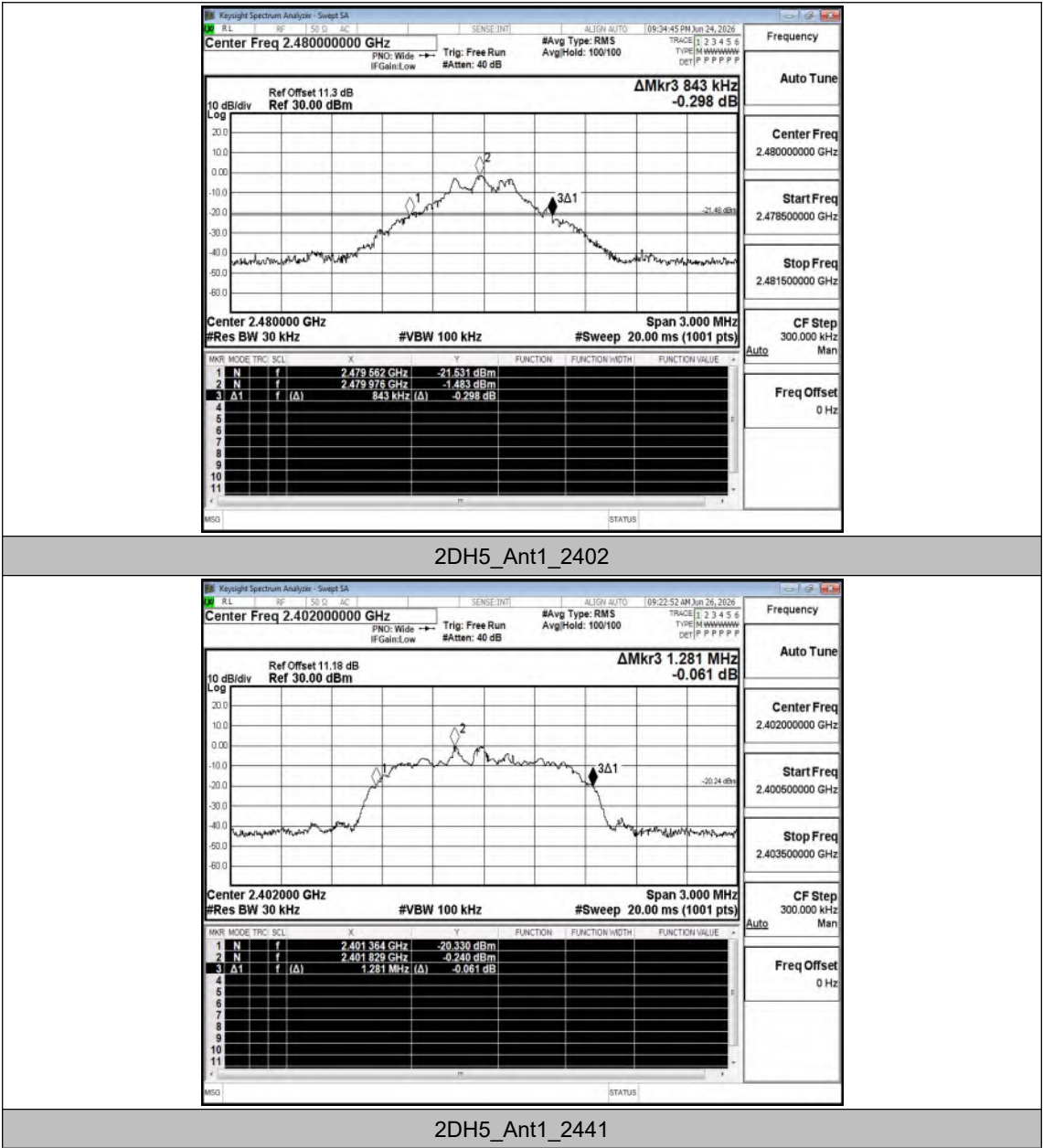
A.1 20dB Emission Bandwidth

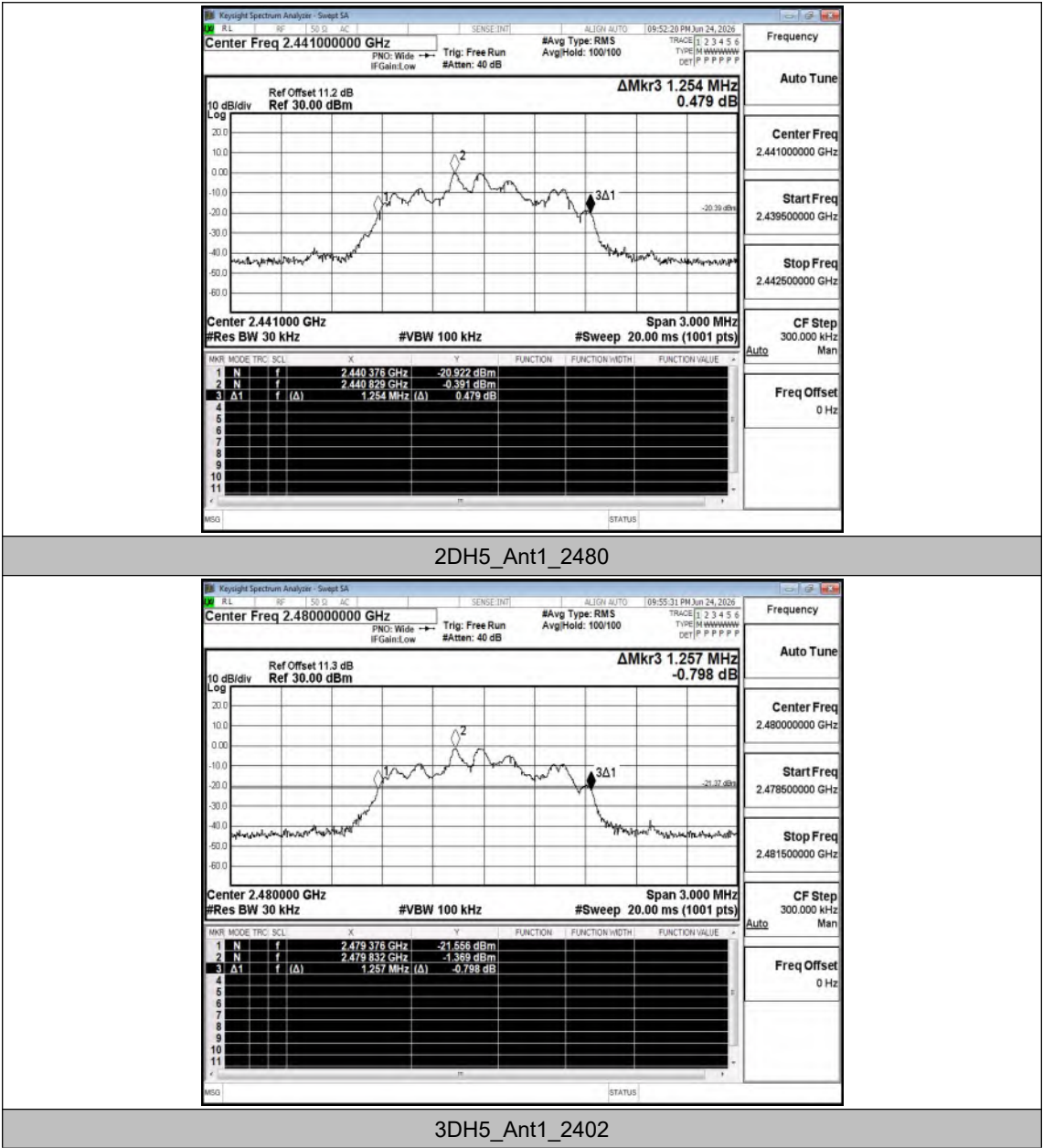
Test Result

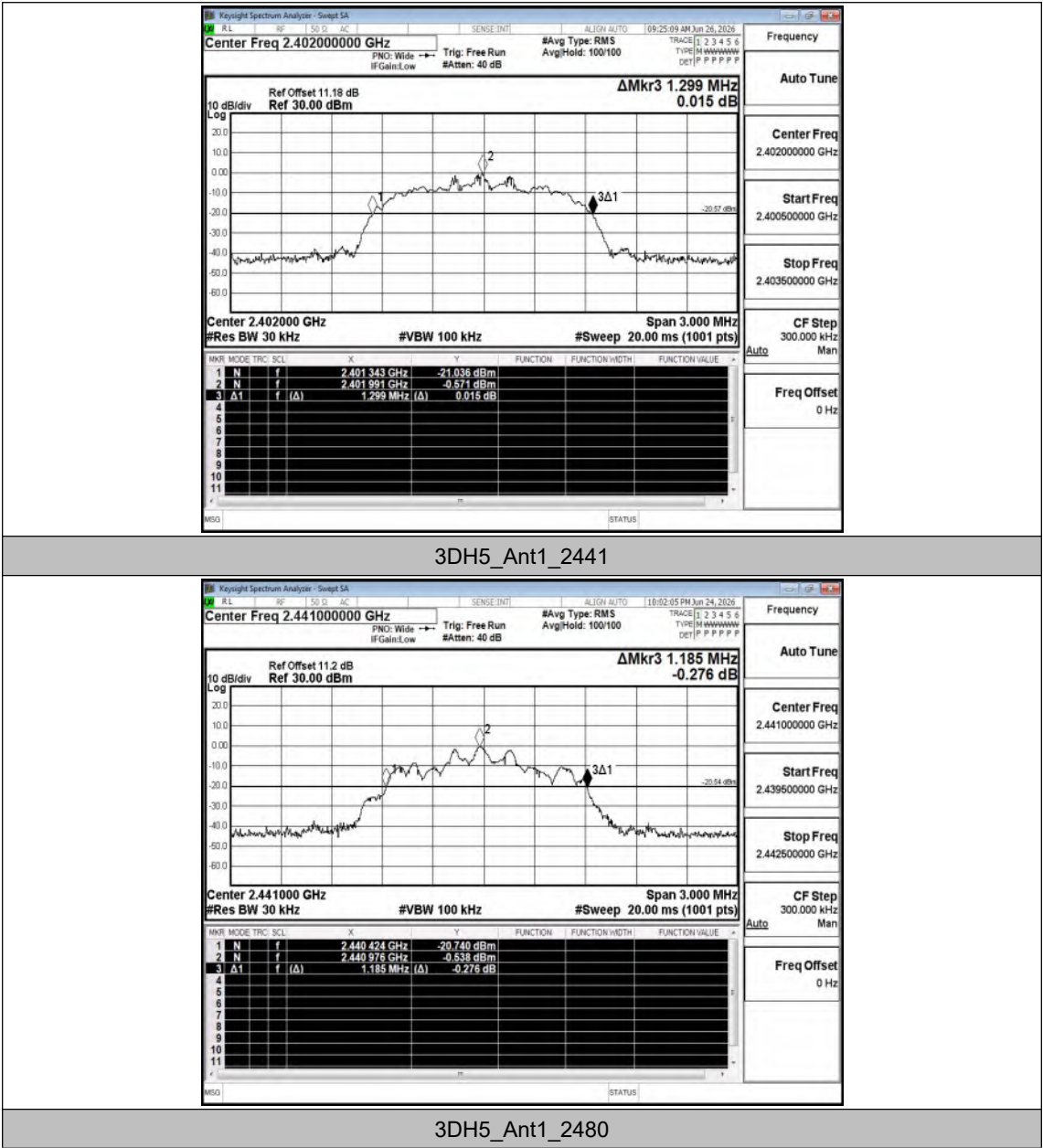
TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.954	2401.523	2402.477	---	---
		2441	0.849	2440.556	2441.405	---	---
		2480	0.843	2479.562	2480.405	---	---
2DH5	Ant1	2402	1.281	2401.364	2402.645	---	---
		2441	1.254	2440.376	2441.630	---	---
		2480	1.257	2479.376	2480.633	---	---
3DH5	Ant1	2402	1.299	2401.343	2402.642	---	---
		2441	1.185	2440.424	2441.609	---	---
		2480	1.191	2479.421	2480.612	---	---

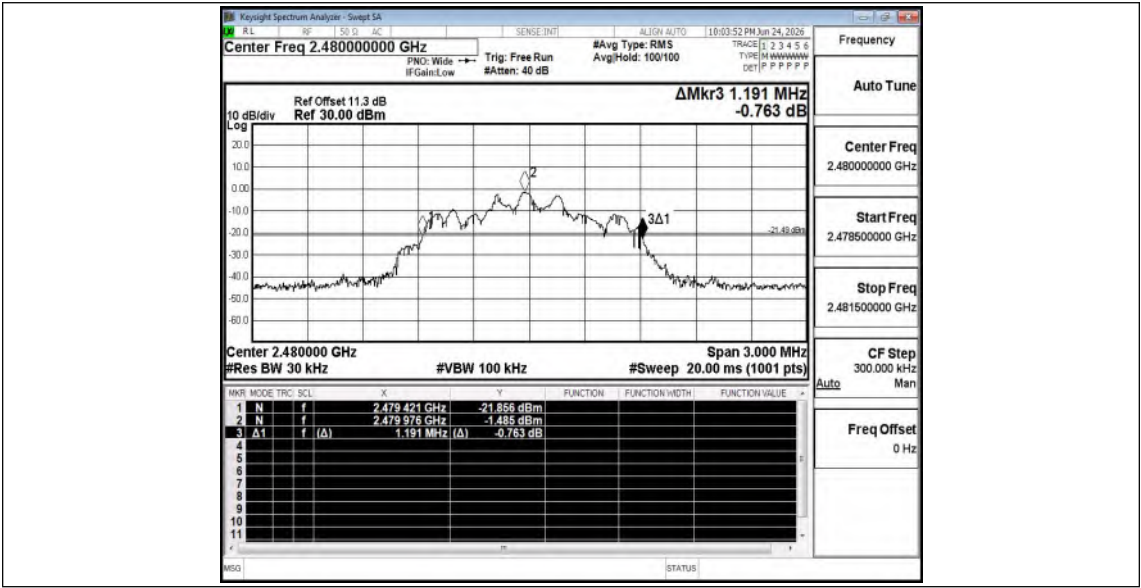
Test Graphs









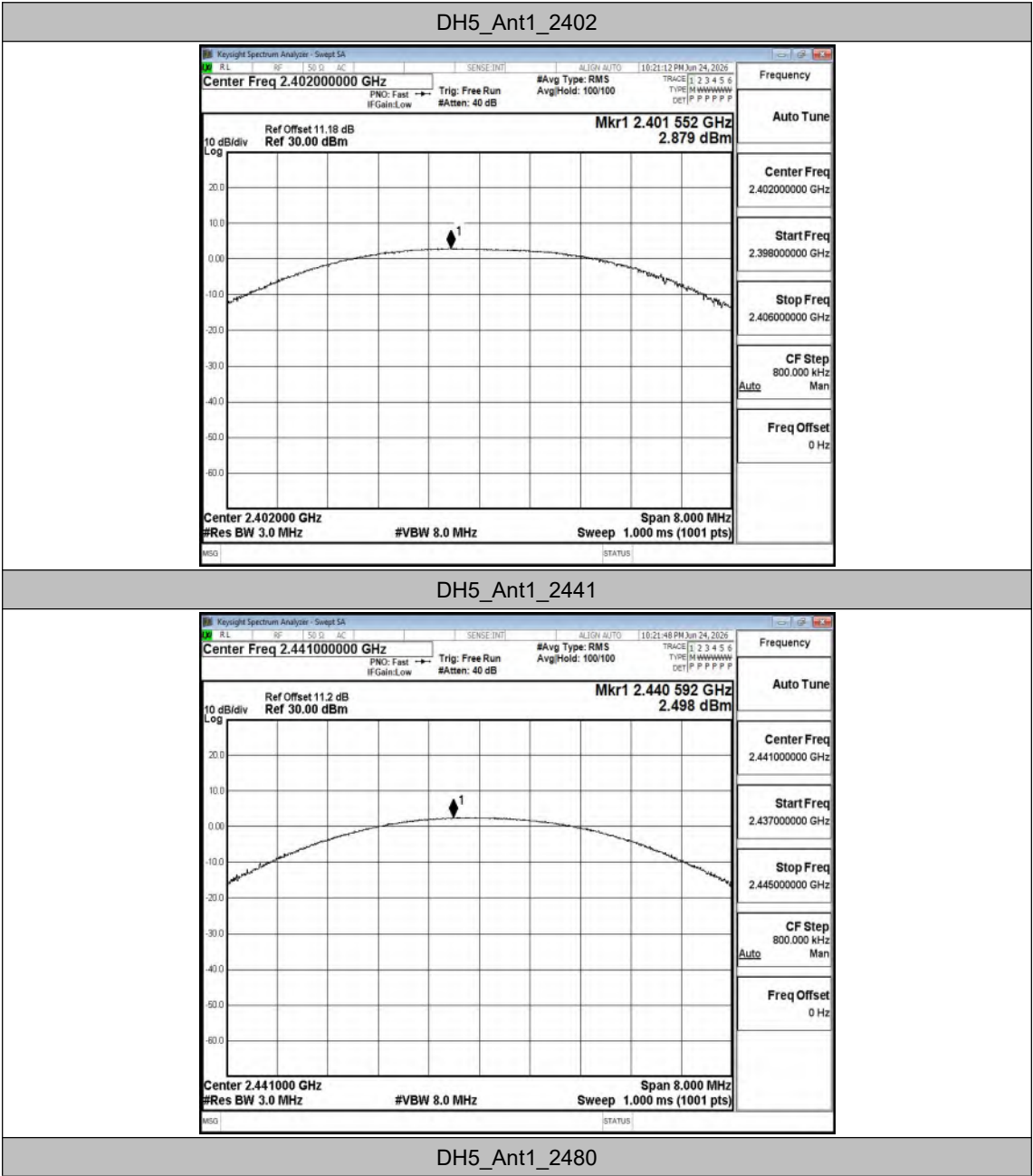


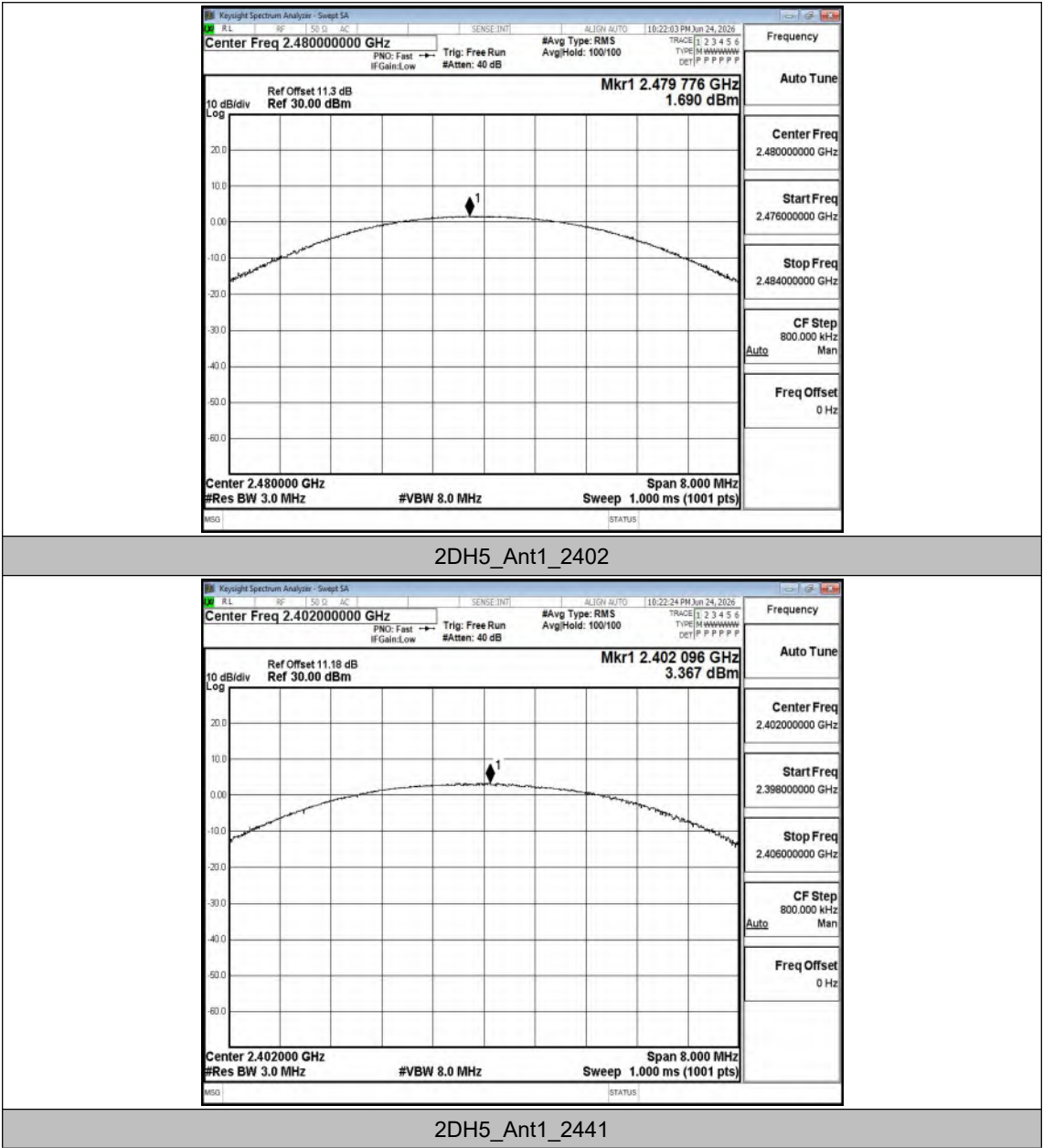
A.2 Maximum Peak conducted output power

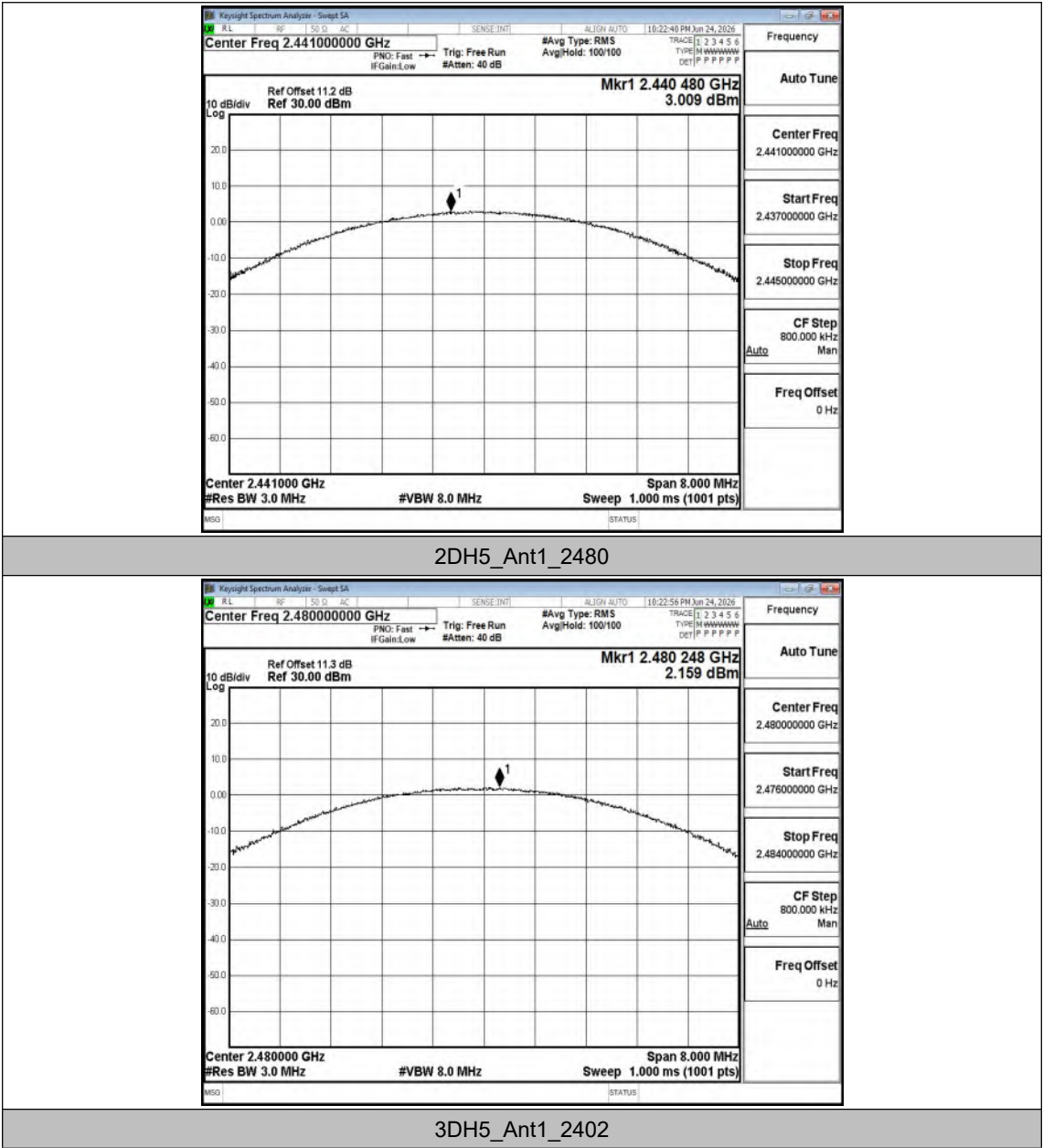
Test Result

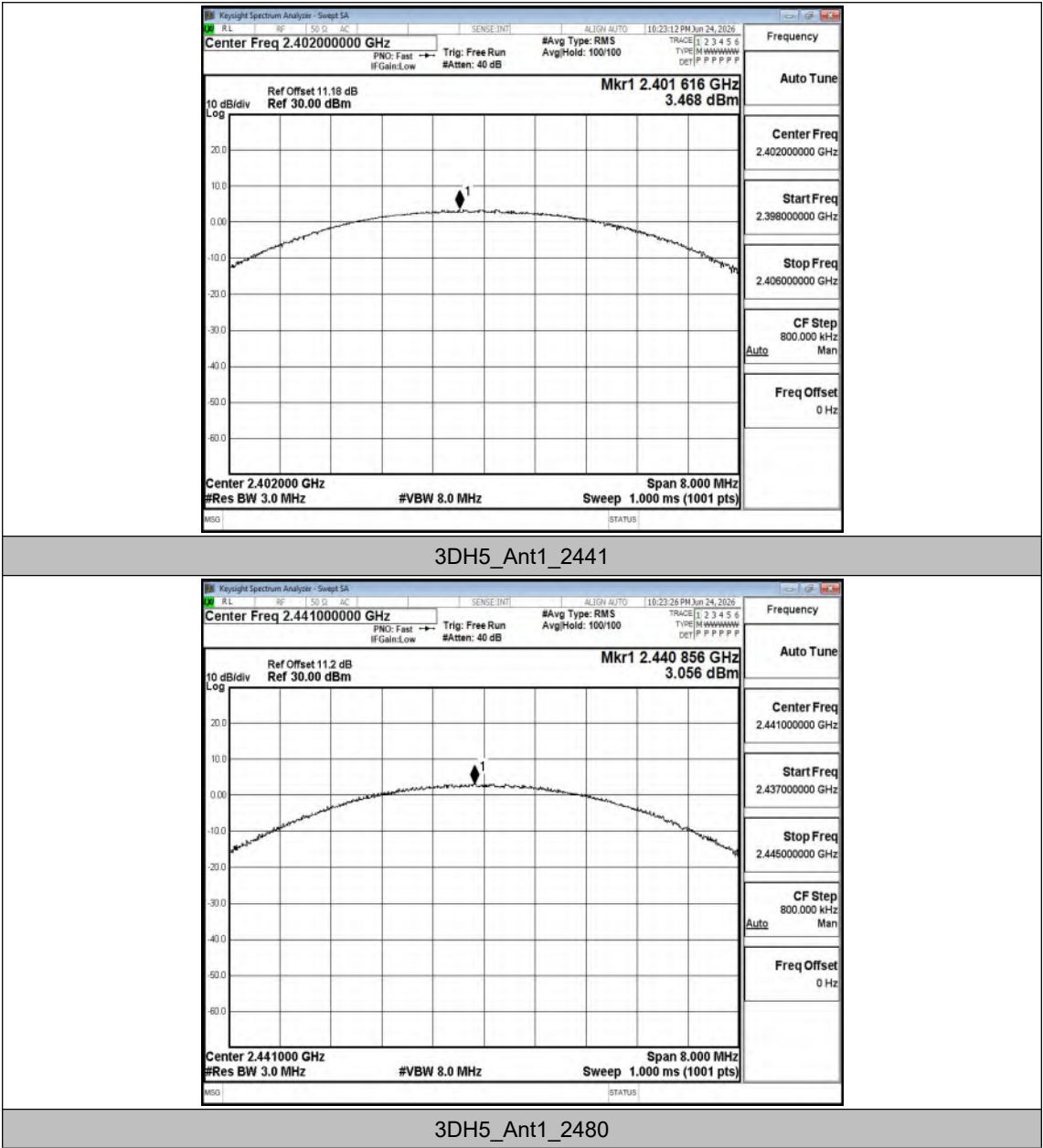
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	2.88	≤30	PASS
		2441	2.50	≤30	PASS
		2480	1.69	≤30	PASS
2DH5	Ant1	2402	3.37	≤30	PASS
		2441	3.01	≤30	PASS
		2480	2.16	≤30	PASS
3DH5	Ant1	2402	3.47	≤30	PASS
		2441	3.06	≤30	PASS
		2480	2.10	≤30	PASS

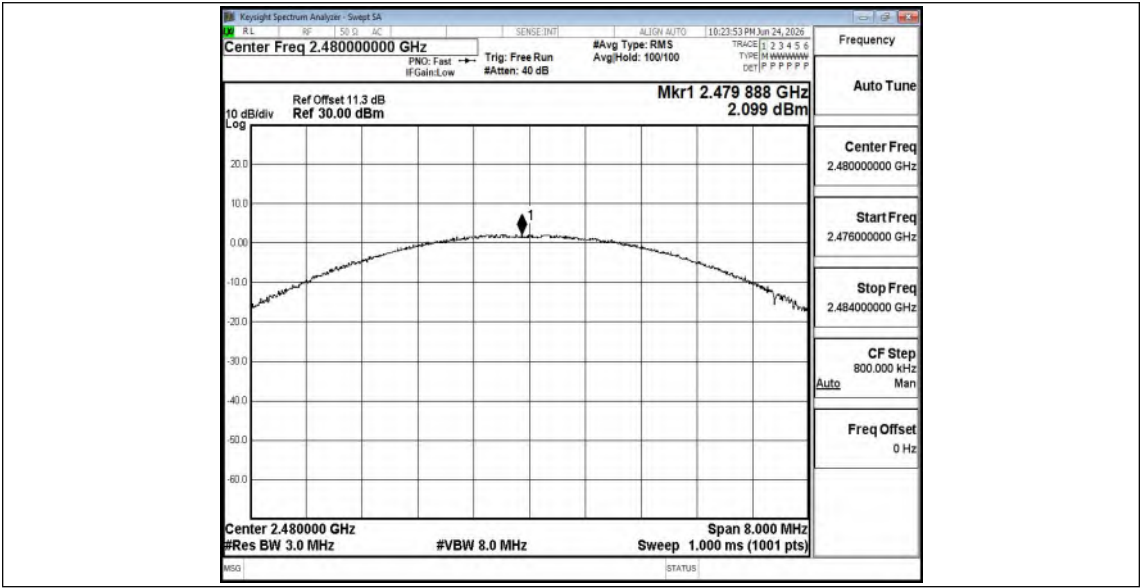
Test Graphs









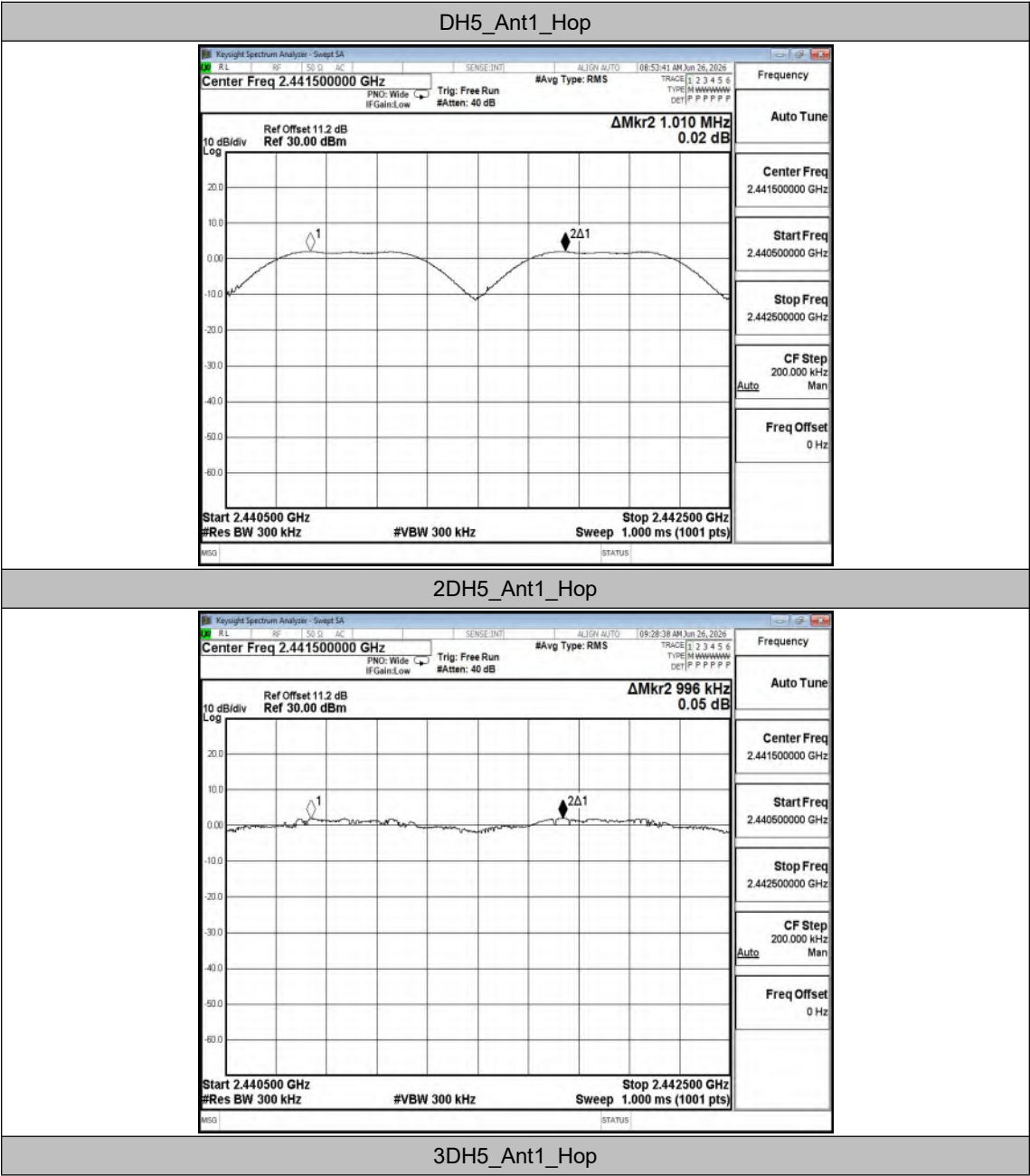


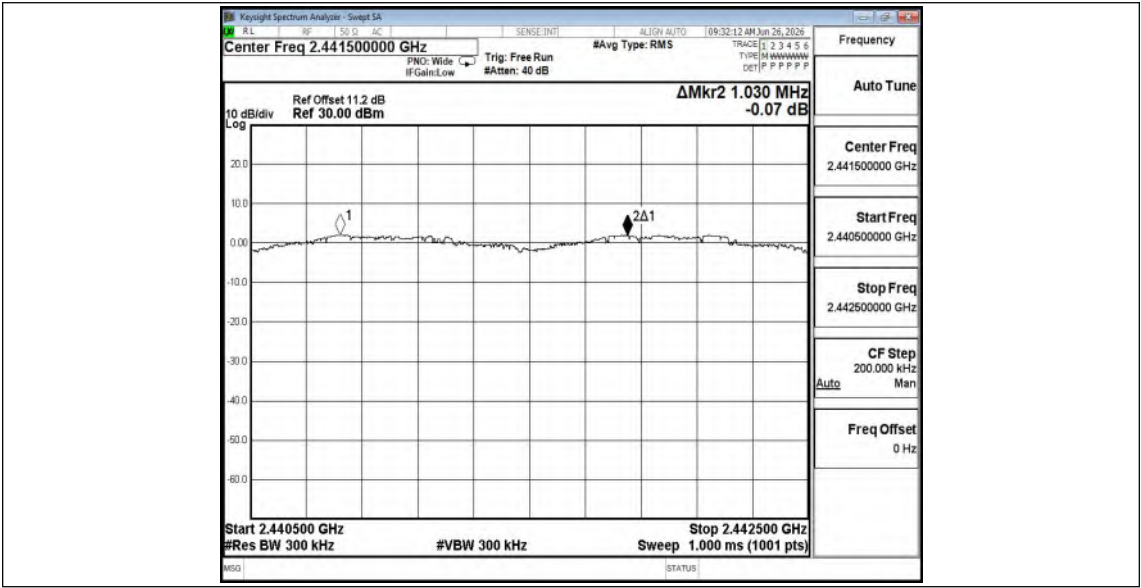
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.01	≥0.636	PASS
2DH5	Ant1	Hop	0.996	≥0.854	PASS
3DH5	Ant1	Hop	1.03	≥0.866	PASS

Test Graphs



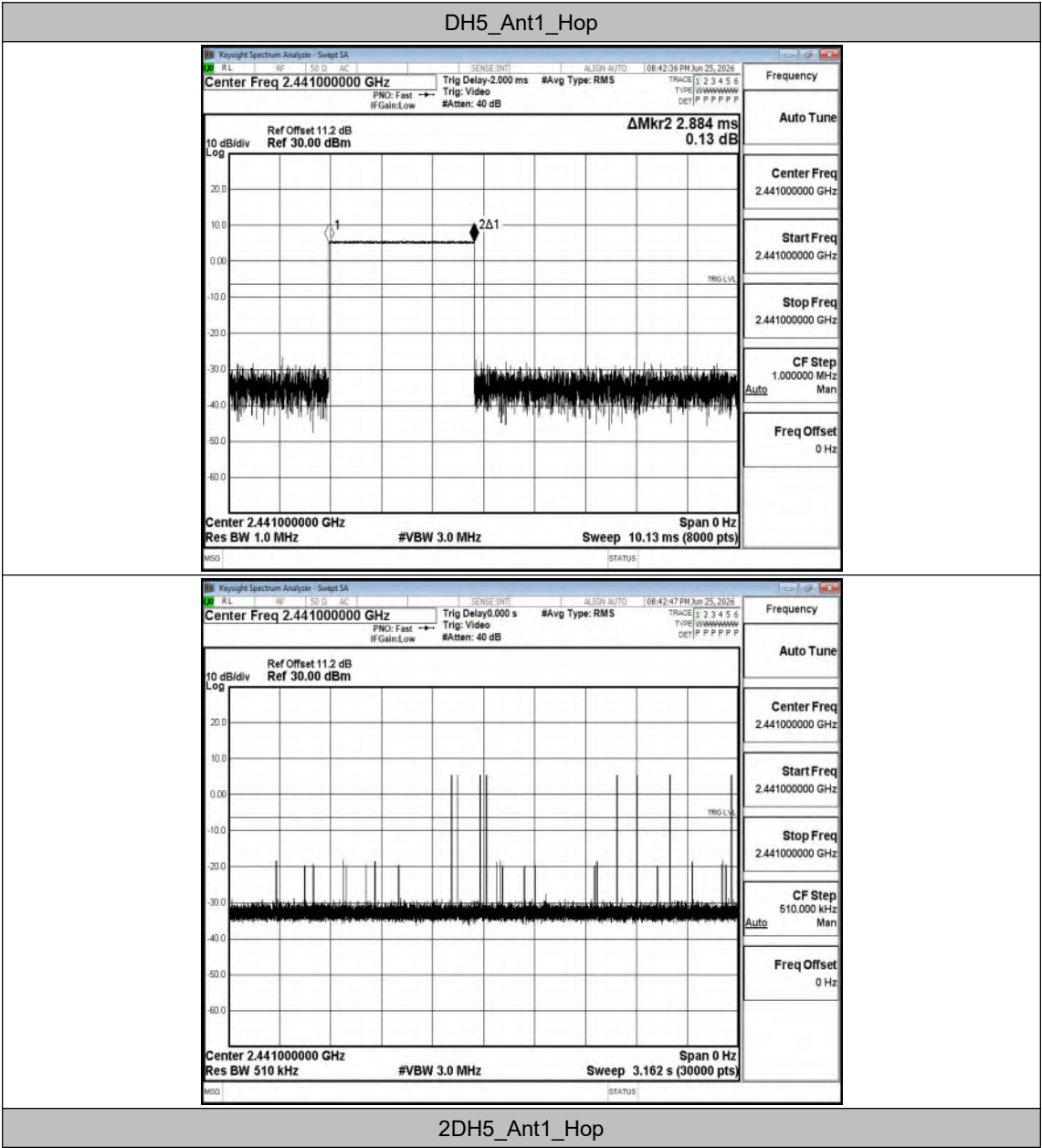


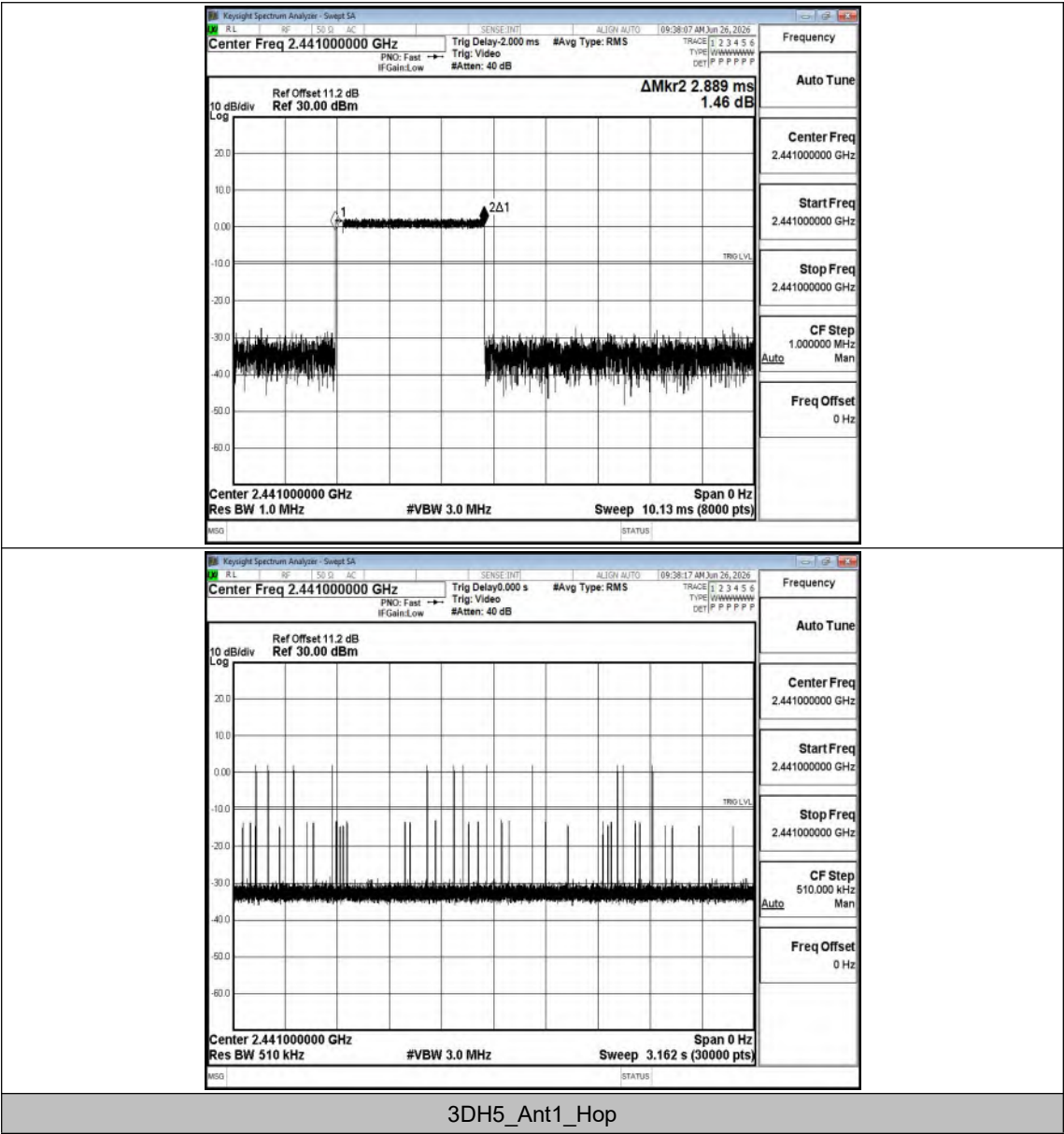
A.4 Time of occupancy

Test Result

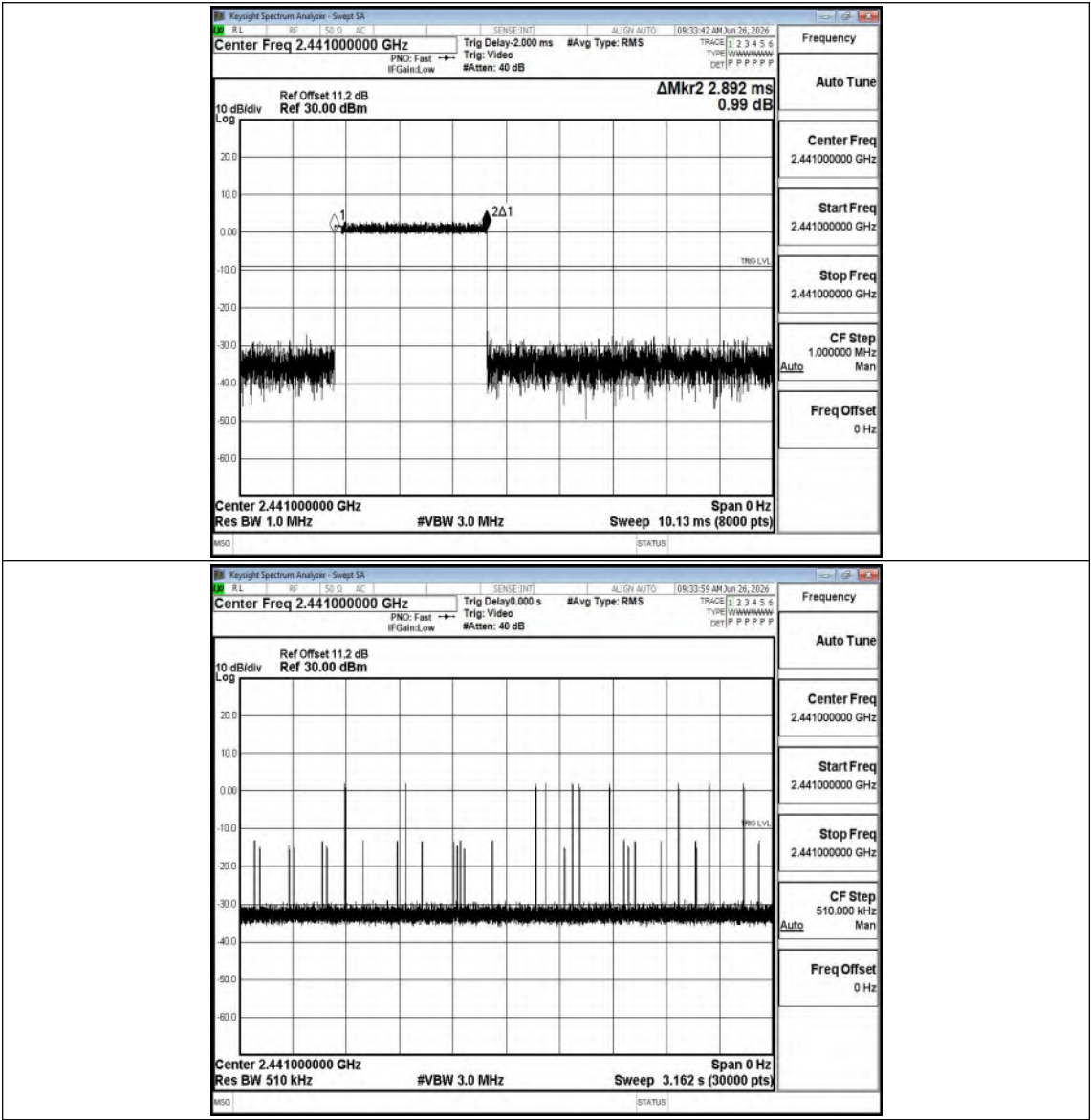
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.884	90	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.889	130	0.376	≤0.4	PASS
3DH5	Ant1	Hop	2.892	110	0.318	≤0.4	PASS

Test Graphs





3DH5_Ant1_Hop

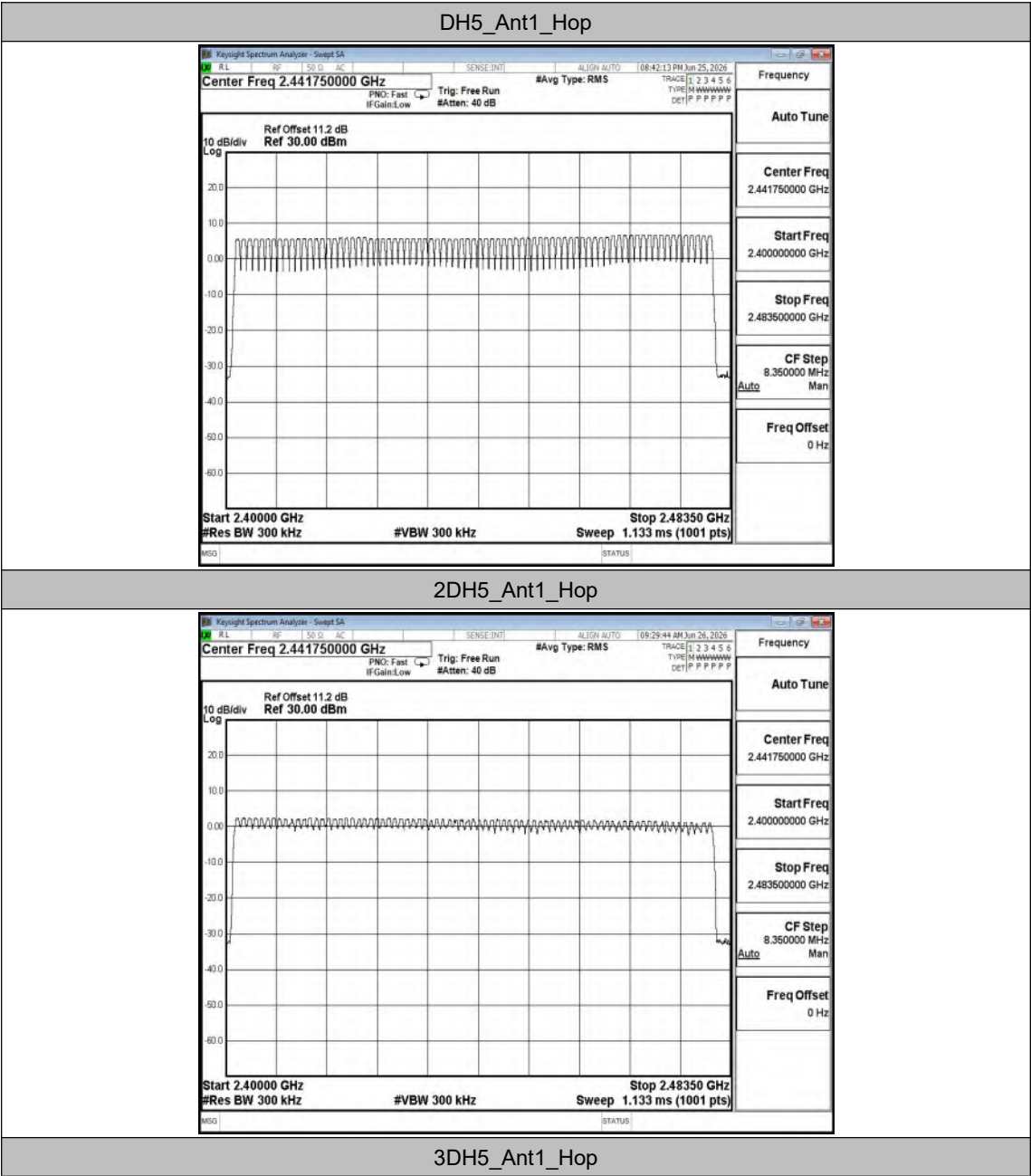


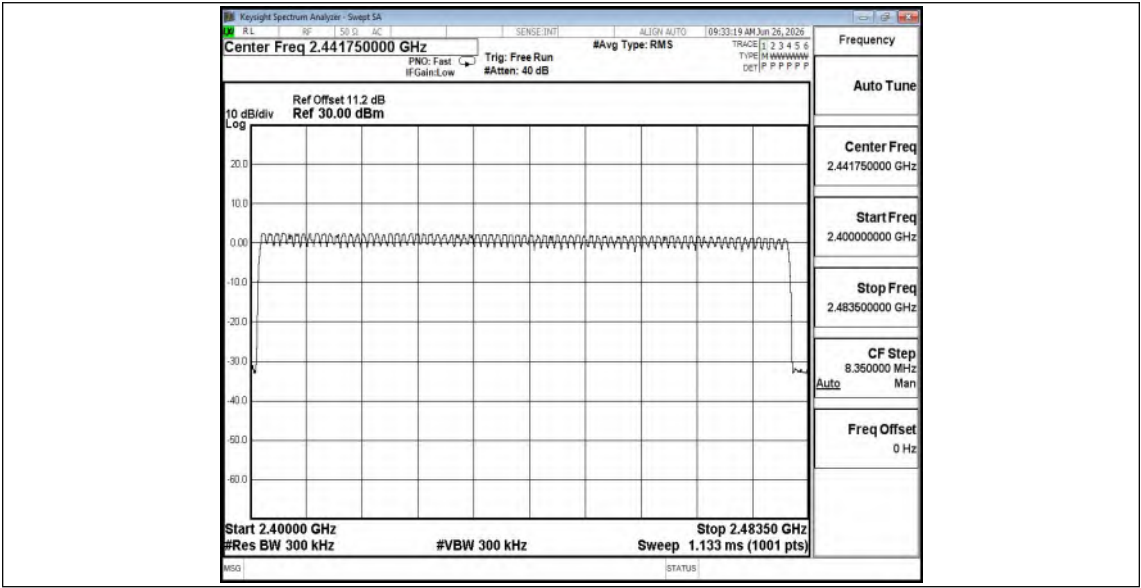
A.5 Number of hopping channels

Test Result

TestMode	Antenna	Freq(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



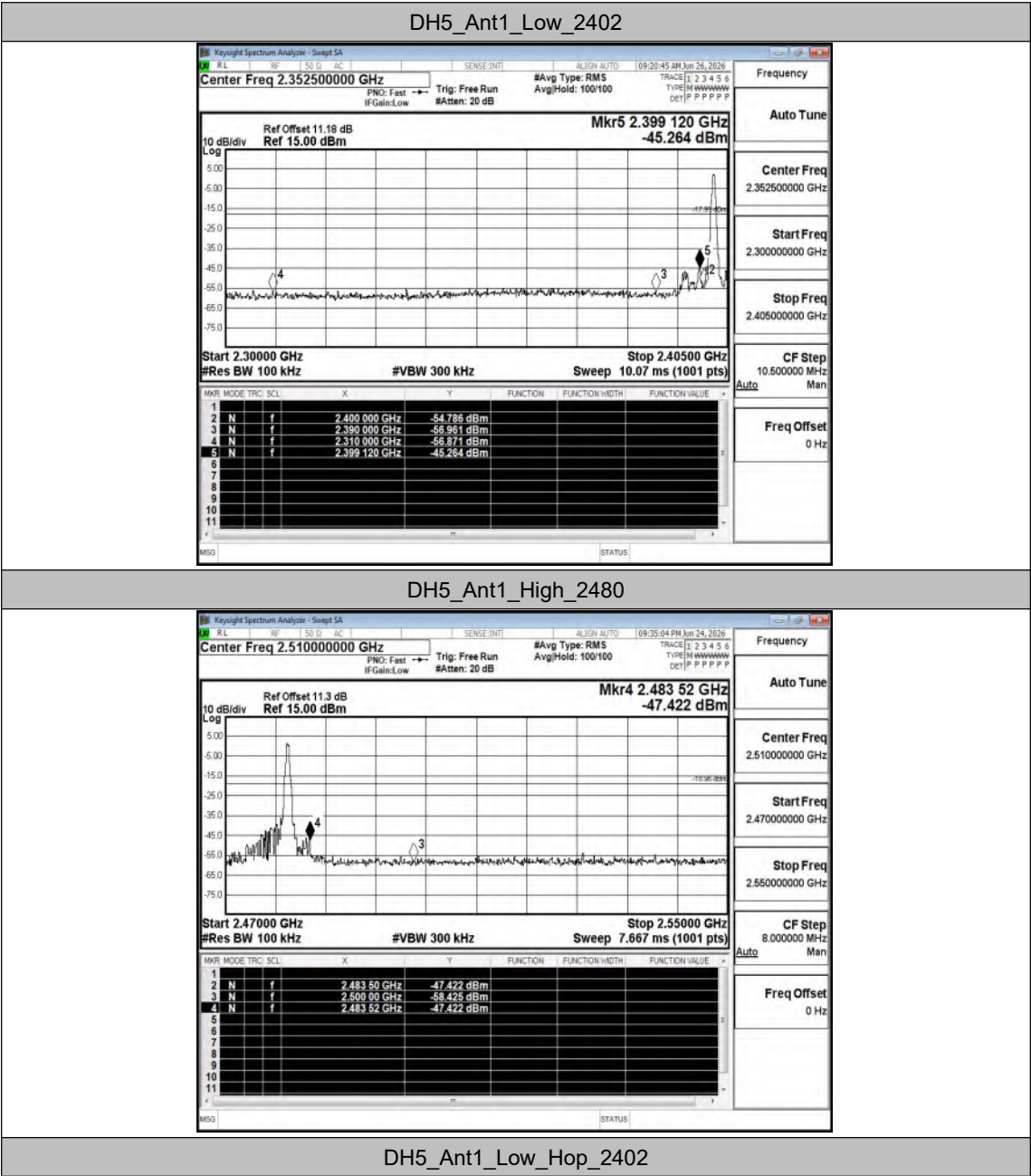


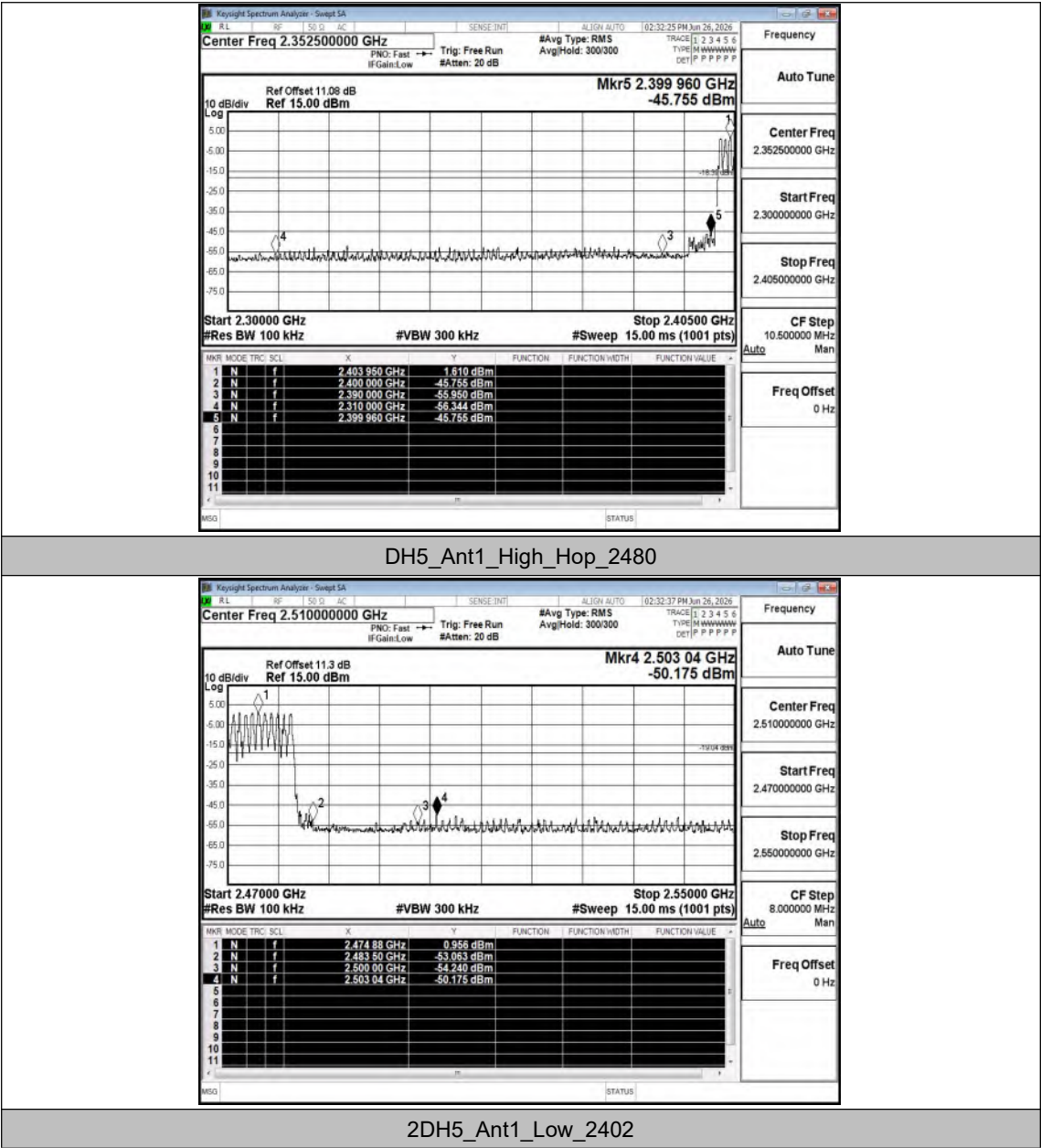
A.6 Band edge measurements

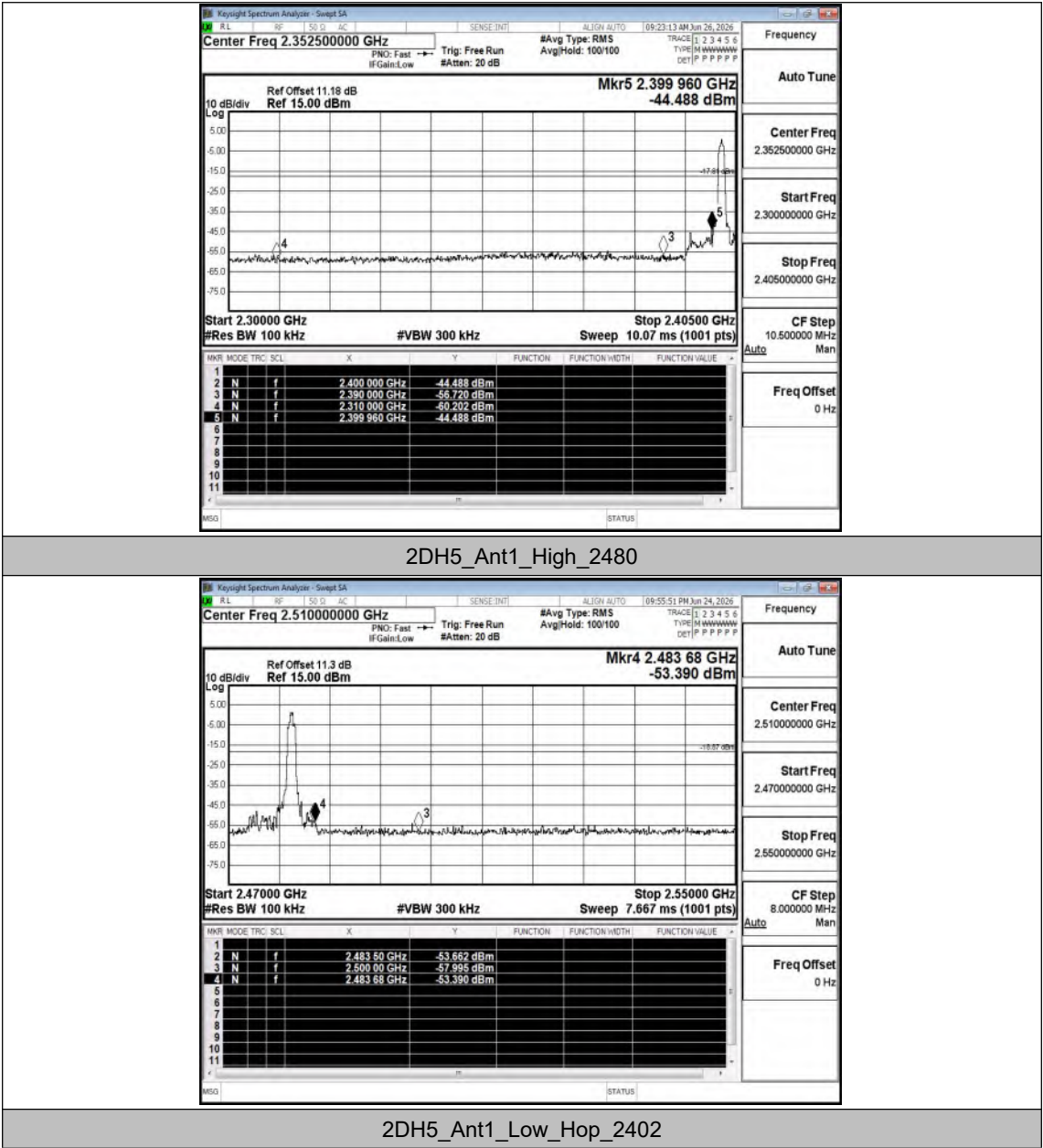
Test Result

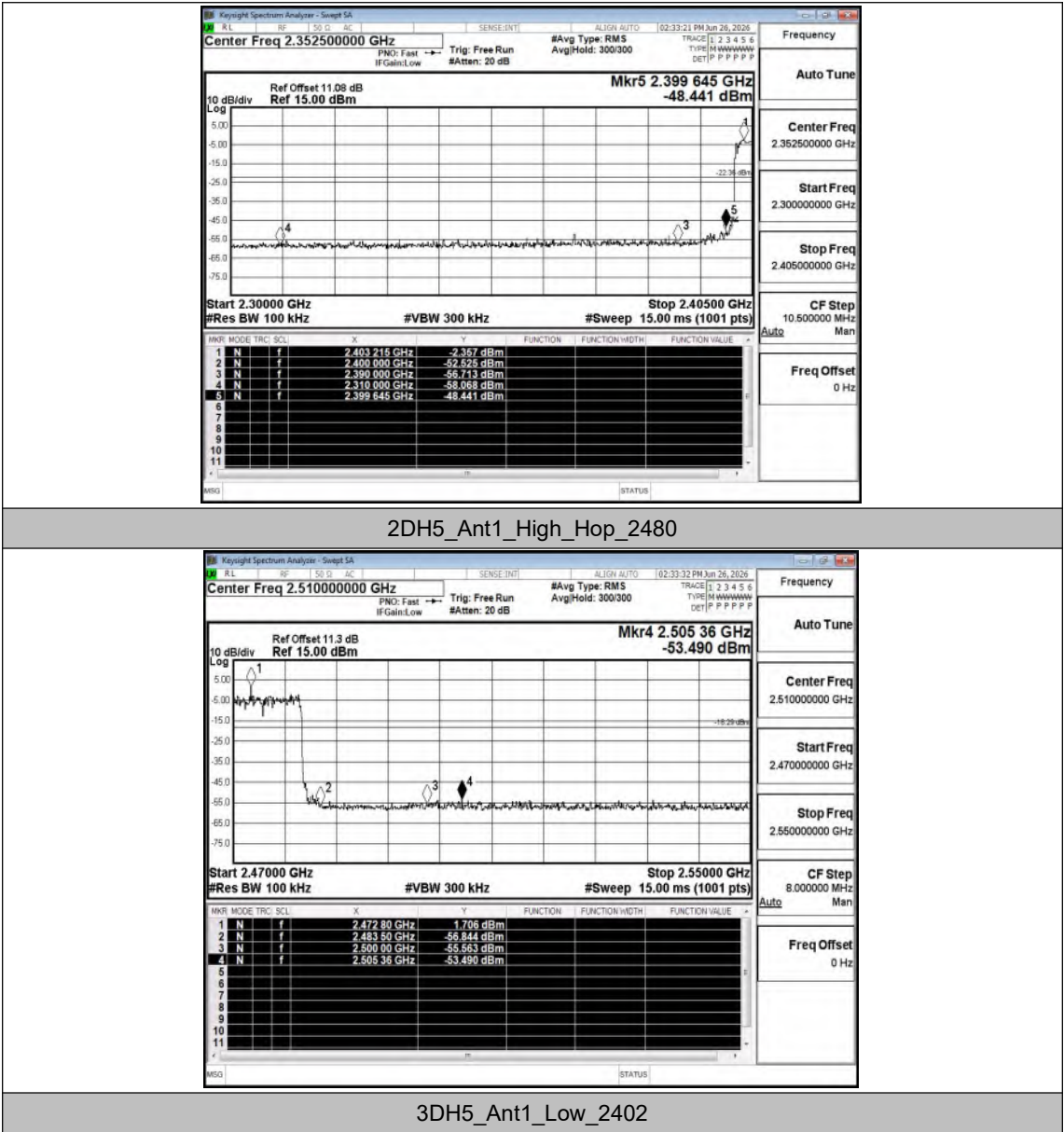
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.09	-45.26	≤ -17.91	PASS
		High	2480	1.04	-47.42	≤ -18.96	PASS
		Low	Hop_2402	1.61	-45.76	≤ -18.39	PASS
		High	Hop_2480	0.96	-50.18	≤ -19.04	PASS
2DH5	Ant1	Low	2402	2.19	-44.49	≤ -17.81	PASS
		High	2480	1.13	-53.39	≤ -18.87	PASS
		Low	Hop_2402	-2.36	-48.44	≤ -22.36	PASS
		High	Hop_2480	1.71	-53.49	≤ -18.29	PASS
3DH5	Ant1	Low	2402	1.97	-45.88	≤ -18.03	PASS
		High	2480	1.02	-47.01	≤ -18.98	PASS
		Low	Hop_2402	1.62	-47.04	≤ -18.38	PASS
		High	Hop_2480	0.80	-51.34	≤ -19.2	PASS

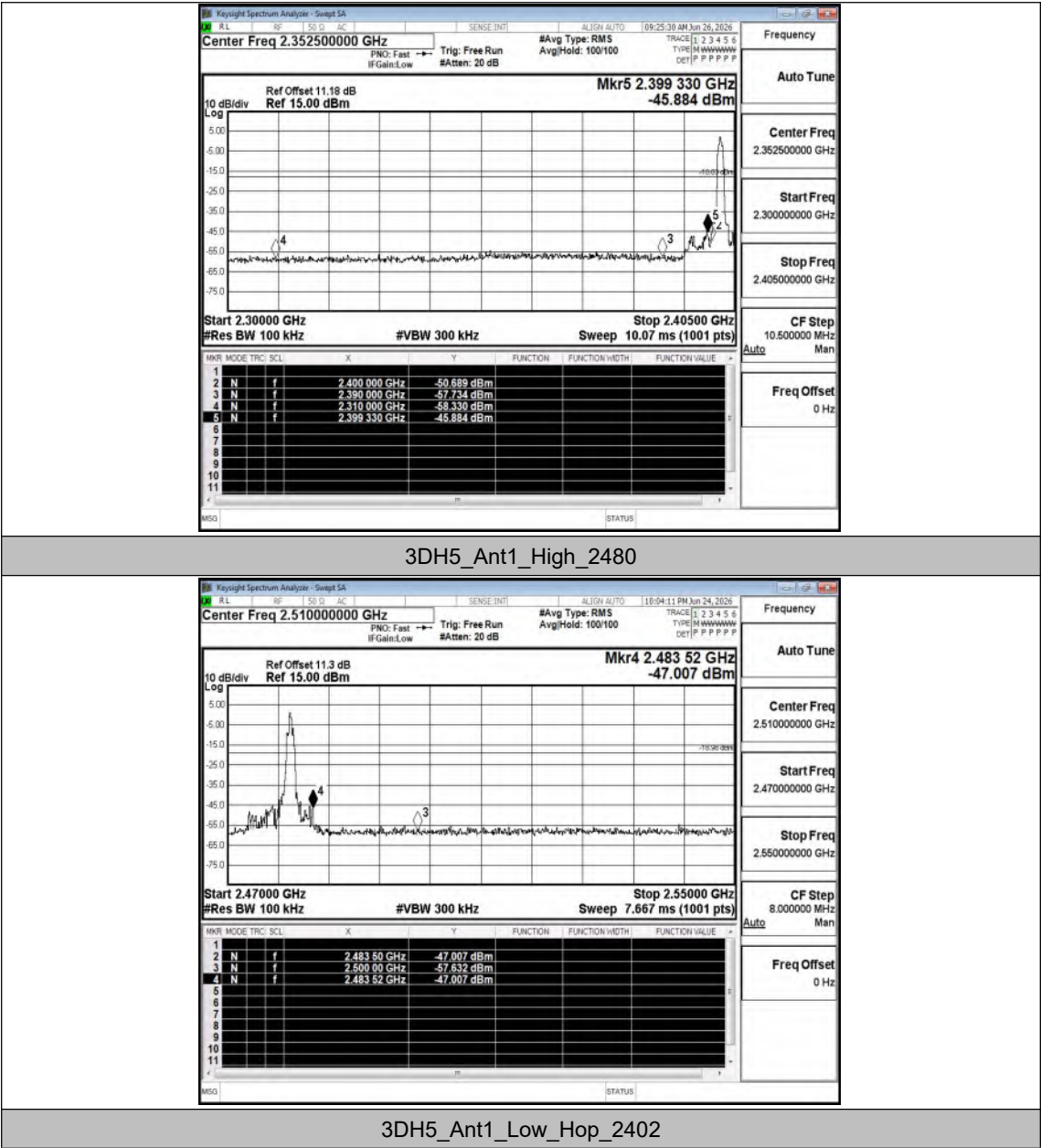
Test Graphs

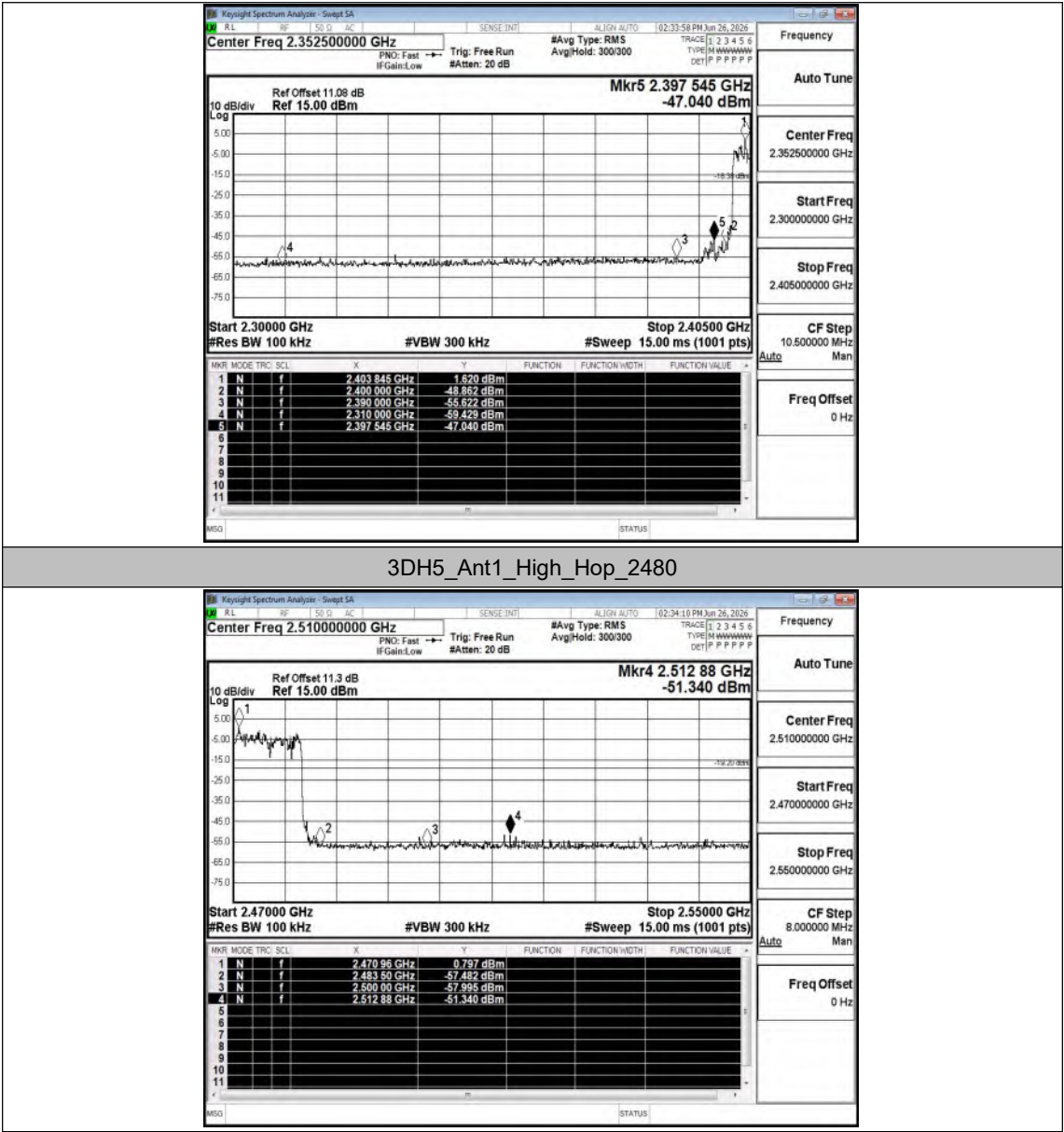










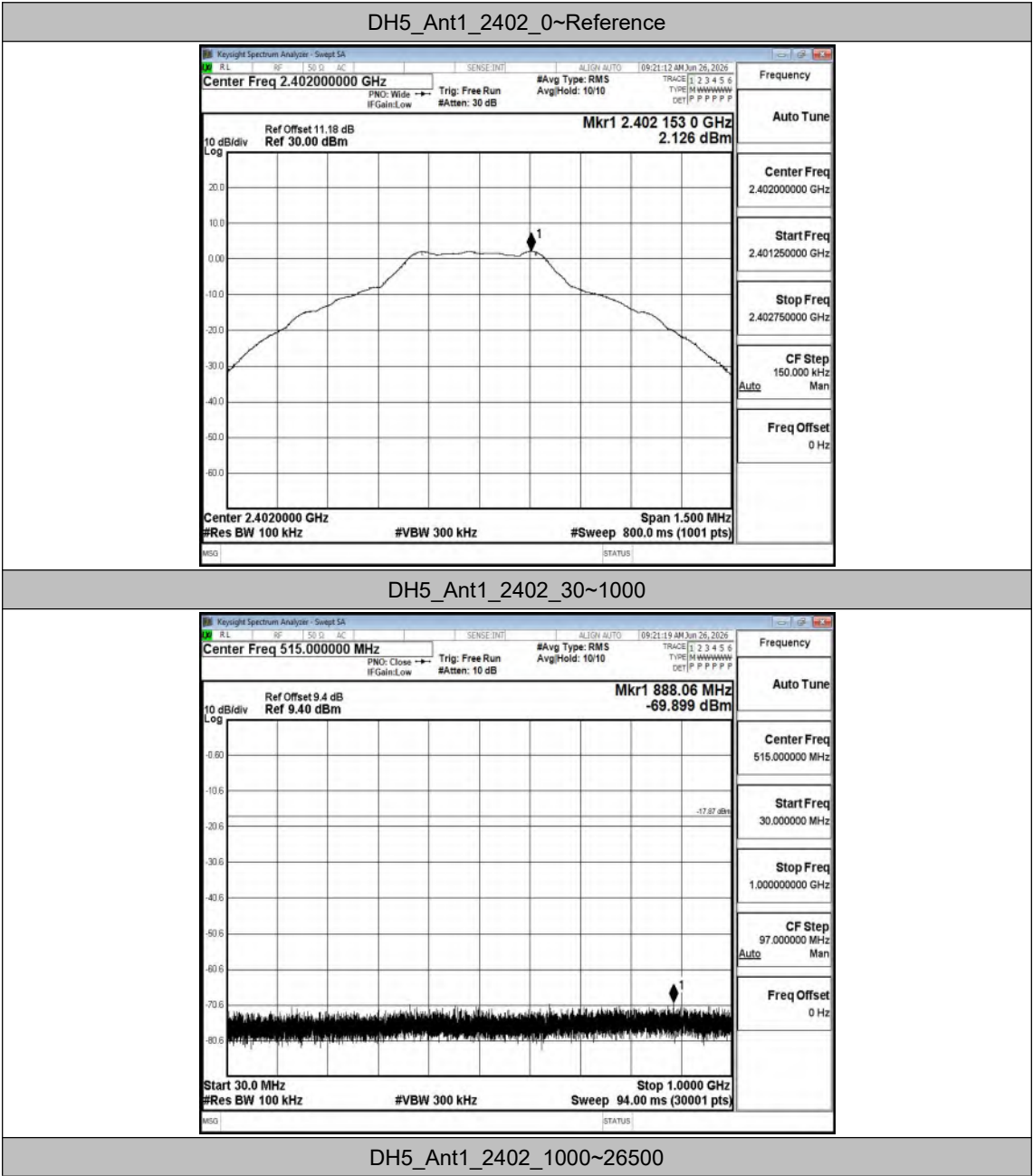


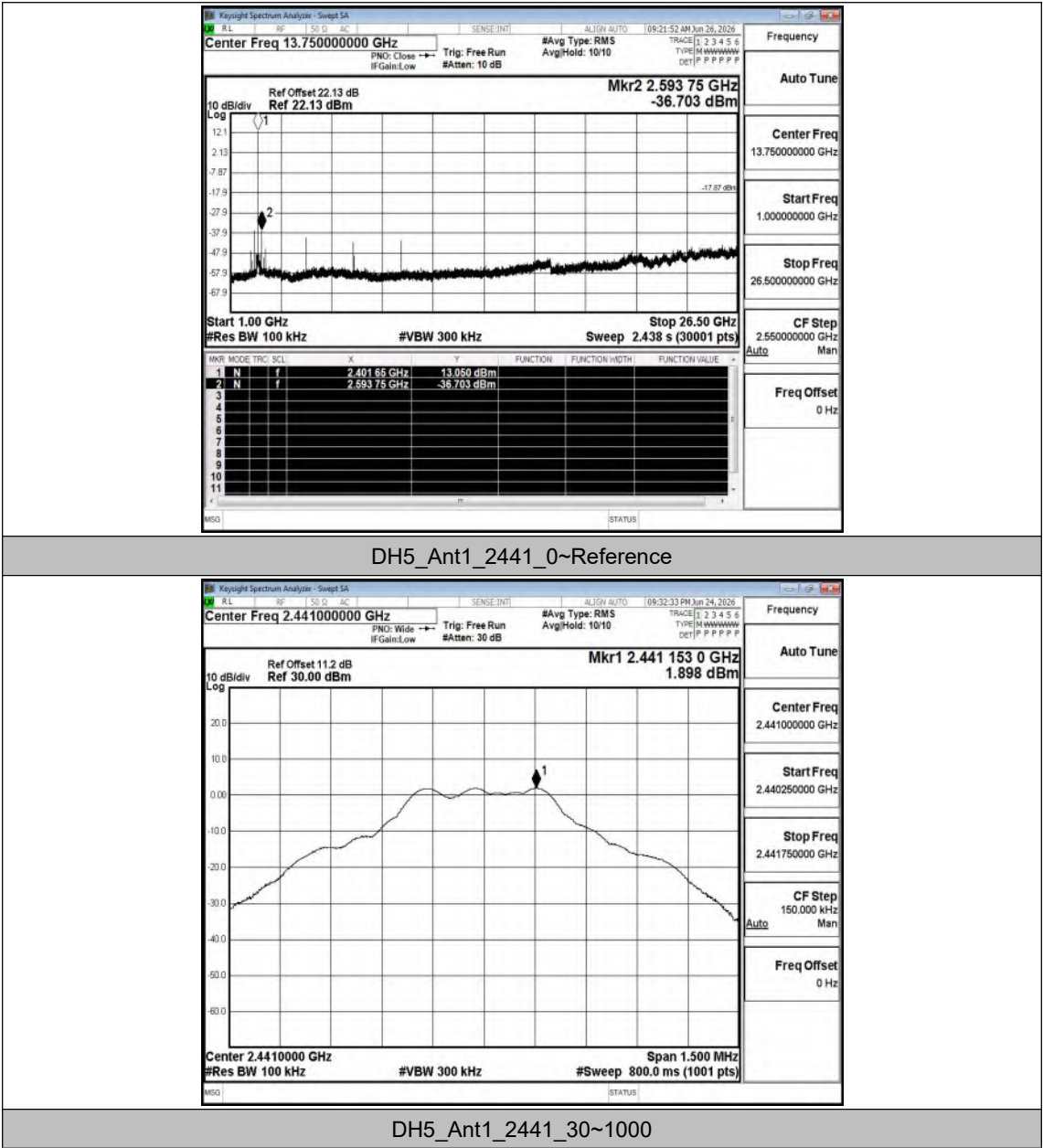
A.7 Conducted Spurious Emission

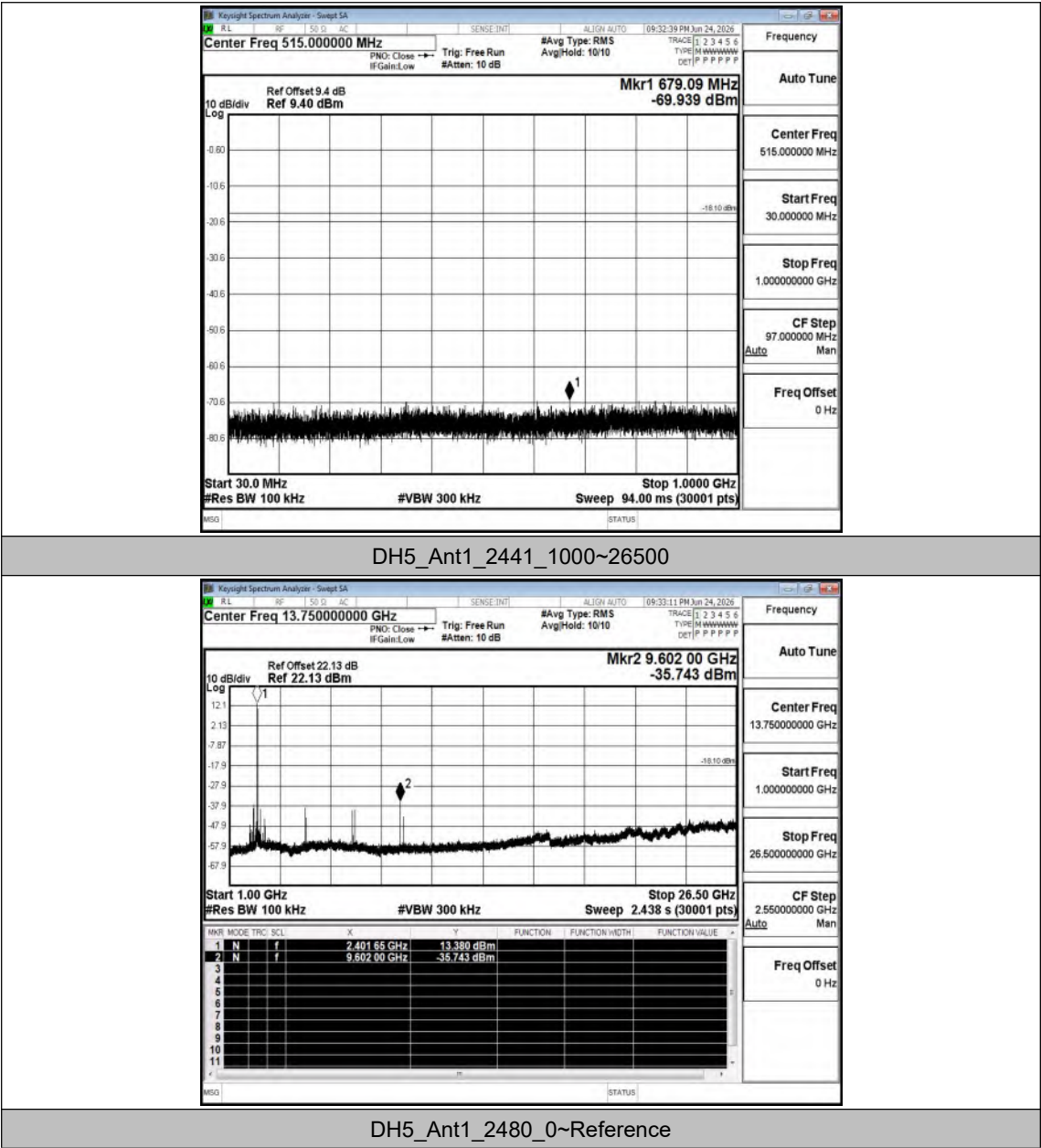
Test Result

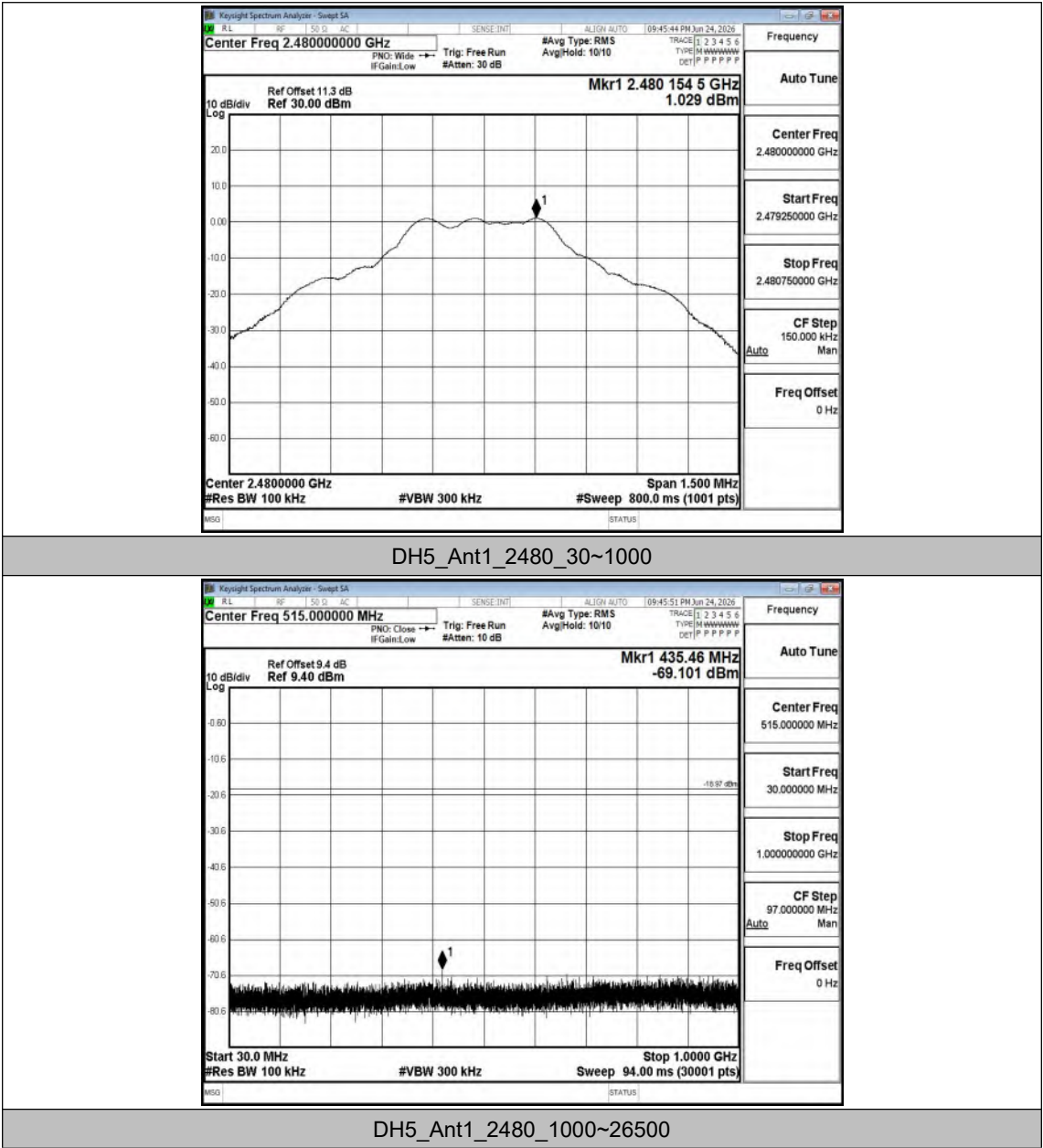
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.13	2.13	---	PASS
			30~1000	2.13	-69.9	≤-17.87	PASS
			1000~26500	2.13	-36.7	≤-17.87	PASS
		2441	Reference	1.90	1.90	---	PASS
			30~1000	1.90	-69.94	≤-18.1	PASS
			1000~26500	1.90	-35.74	≤-18.1	PASS
		2480	Reference	1.03	1.03	---	PASS
			30~1000	1.03	-69.1	≤-18.97	PASS
			1000~26500	1.03	-28.79	≤-18.97	PASS
2DH5	Ant1	2402	Reference	2.24	2.24	---	PASS
			30~1000	2.24	-70.14	≤-17.76	PASS
			1000~26500	2.24	-37.43	≤-17.76	PASS
		2441	Reference	1.99	1.99	---	PASS
			30~1000	1.99	-68.87	≤-18.01	PASS
			1000~26500	1.99	-35.14	≤-18.01	PASS
		2480	Reference	1.14	1.14	---	PASS
			30~1000	1.14	-70.18	≤-18.86	PASS
			1000~26500	1.14	-32.93	≤-18.86	PASS
3DH5	Ant1	2402	Reference	2.12	2.12	---	PASS
			30~1000	2.12	-70.53	≤-17.88	PASS
			1000~26500	2.12	-38.95	≤-17.88	PASS
		2441	Reference	1.88	1.88	---	PASS
			30~1000	1.88	-69.83	≤-18.12	PASS
			1000~26500	1.88	-34.82	≤-18.12	PASS
		2480	Reference	1.04	1.04	---	PASS
			30~1000	1.04	-70.02	≤-18.96	PASS
			1000~26500	1.04	-26.98	≤-18.96	PASS

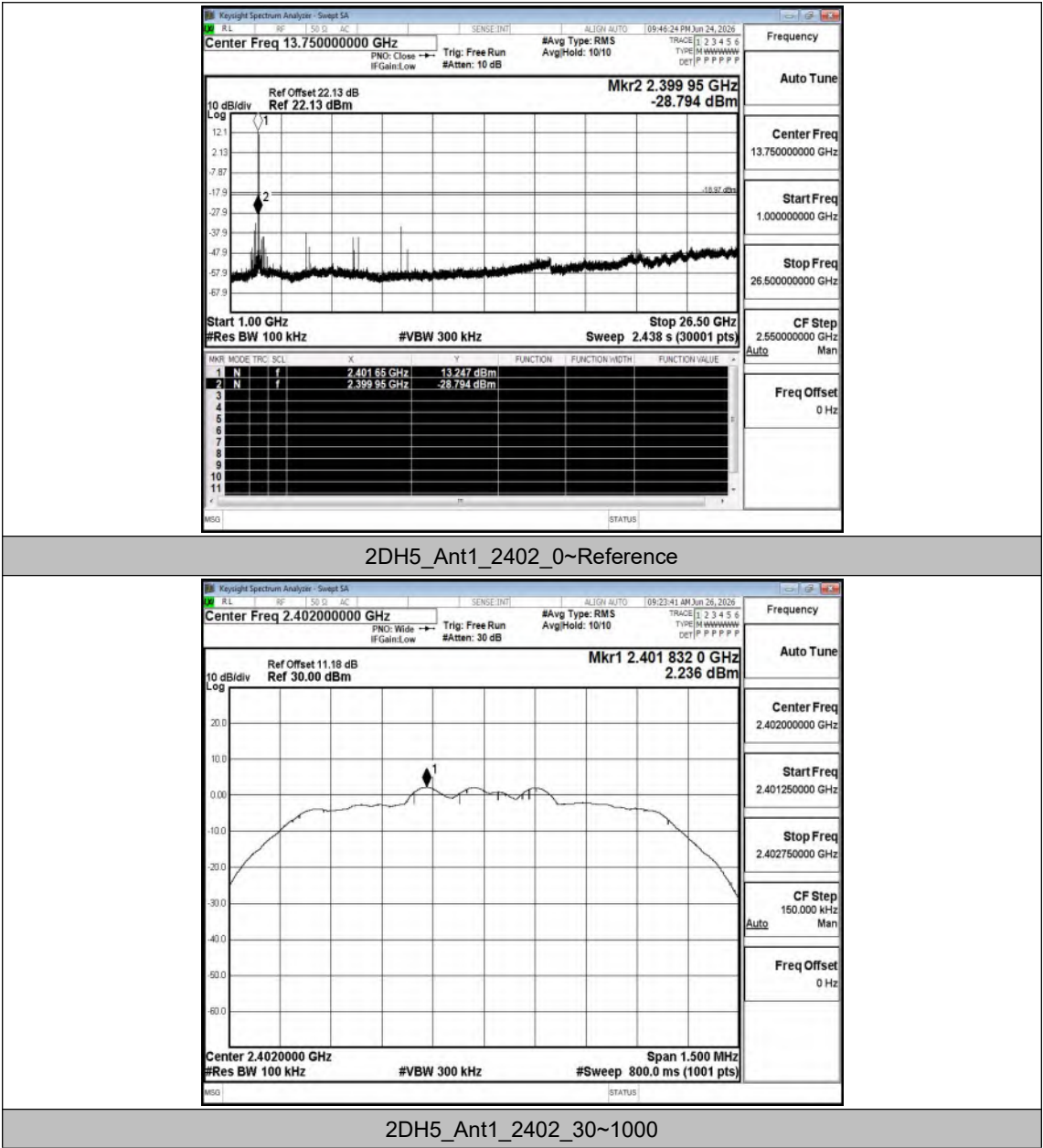
Test Graphs

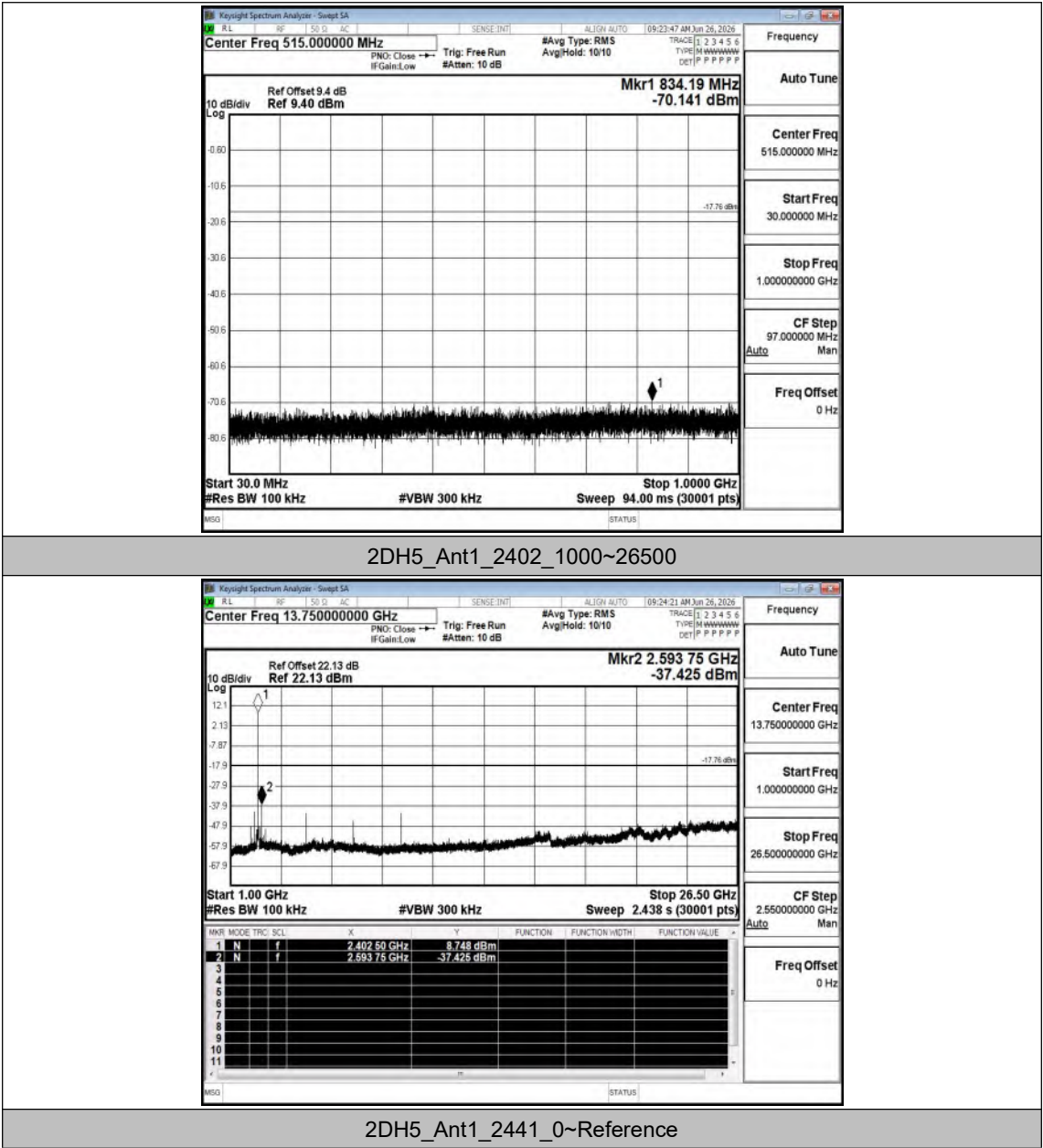


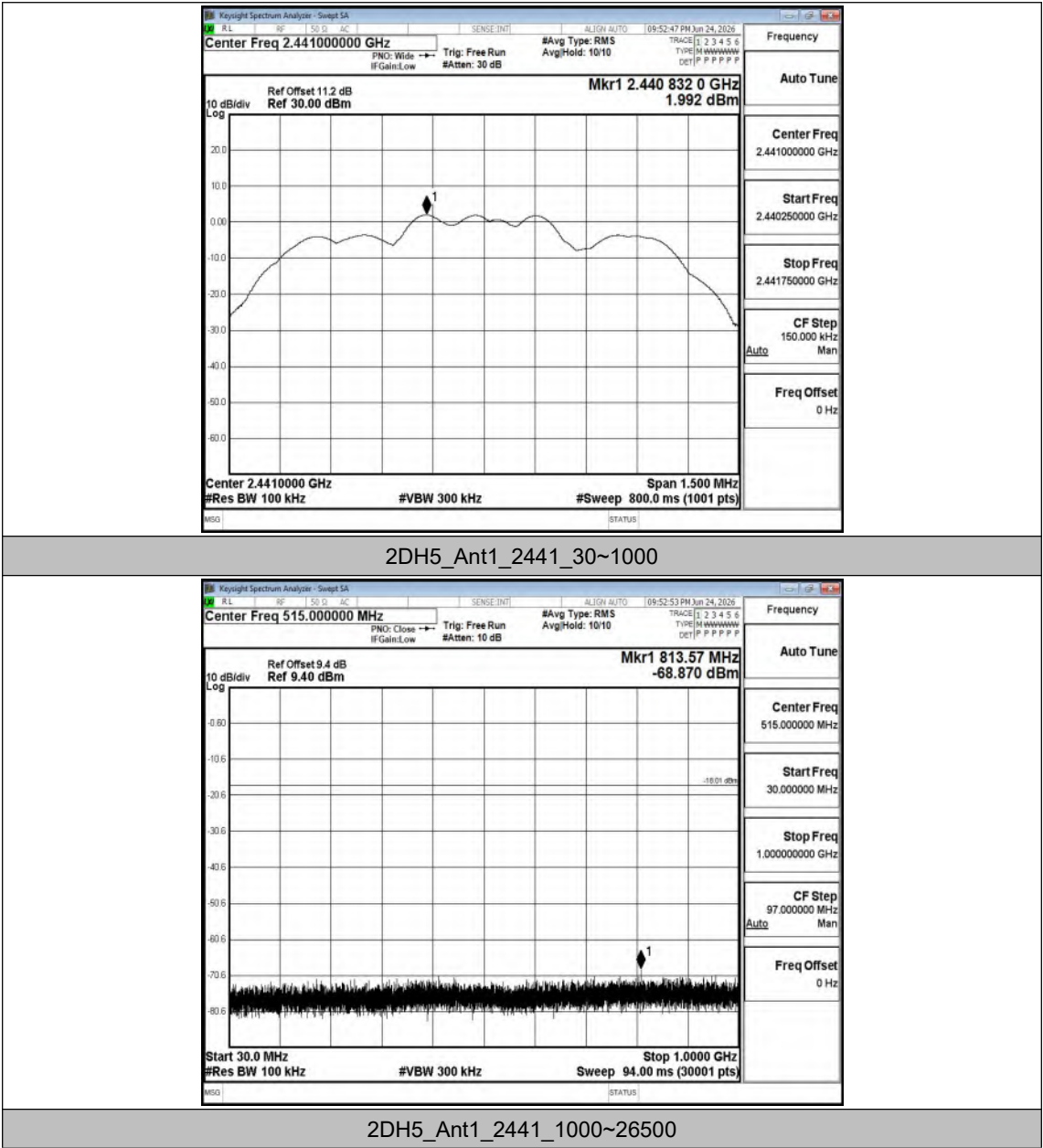


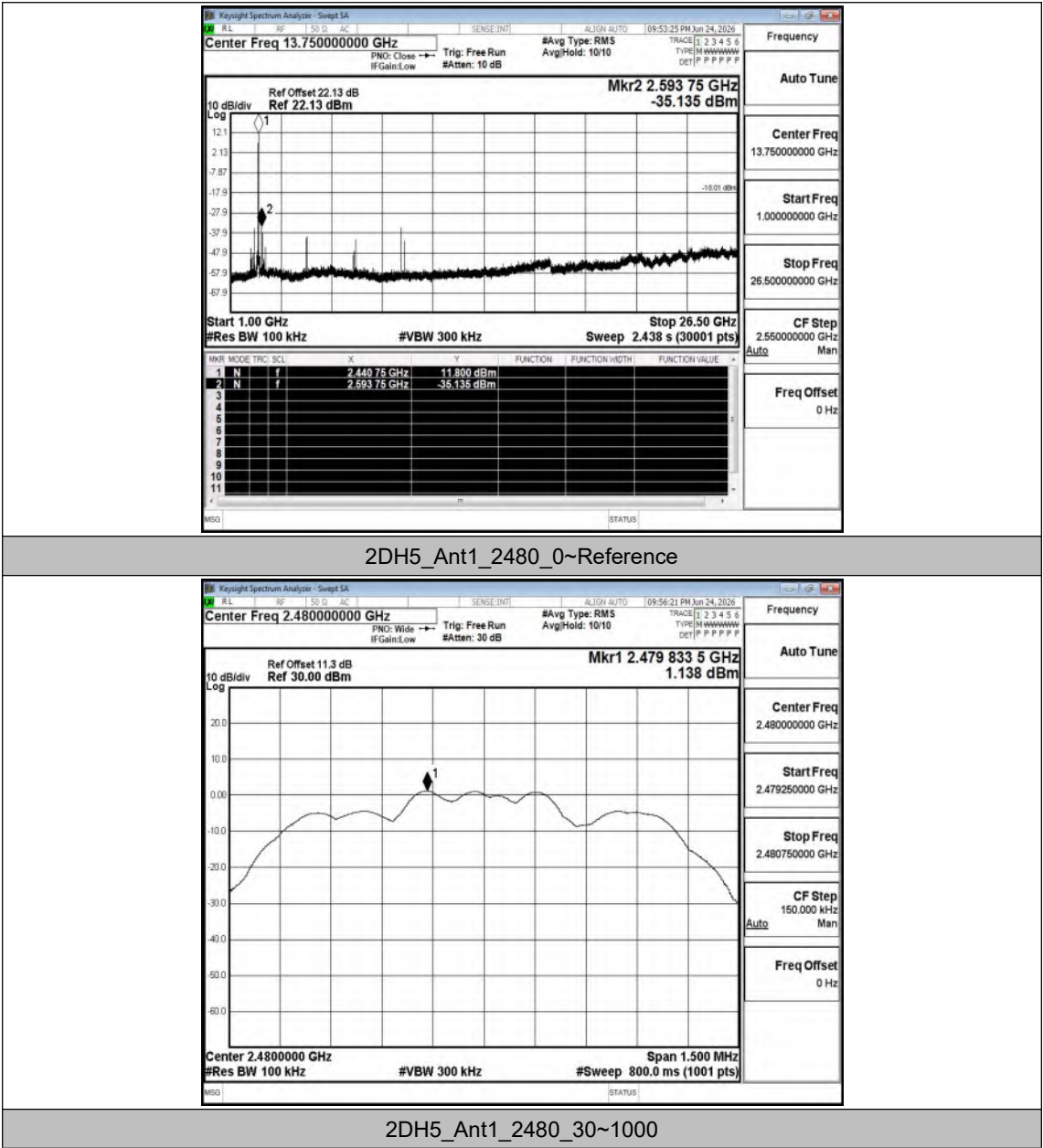


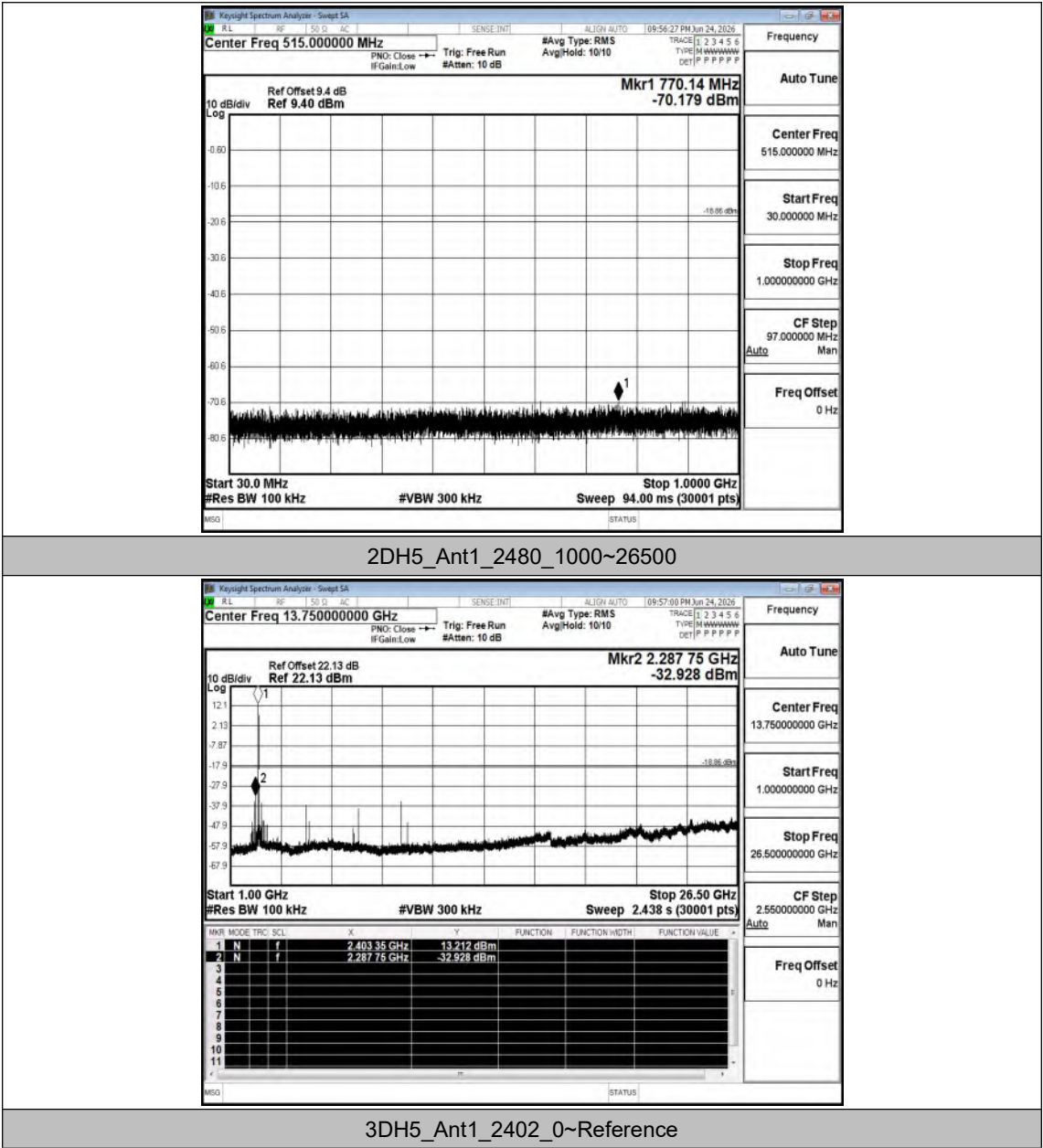


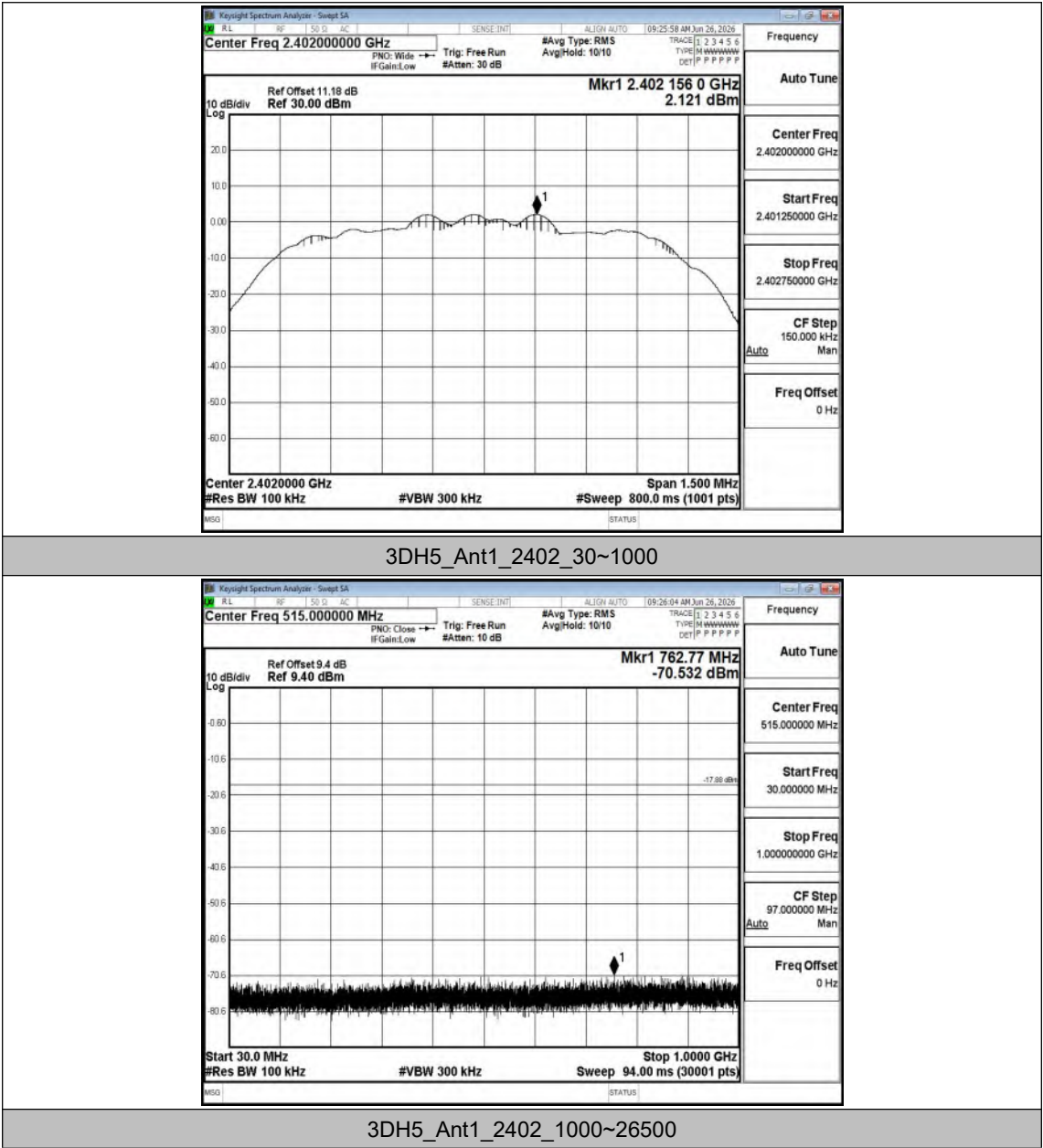


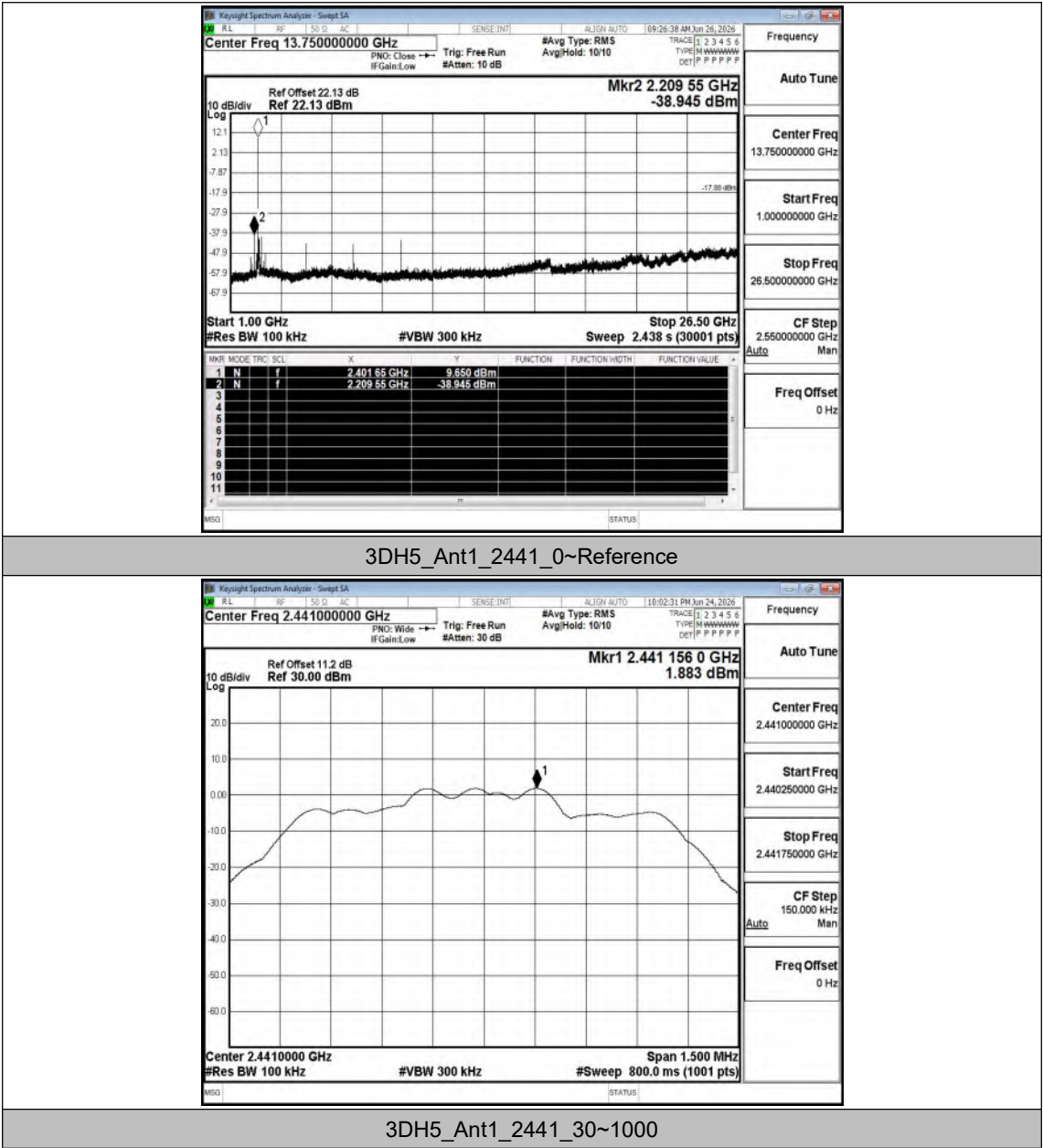


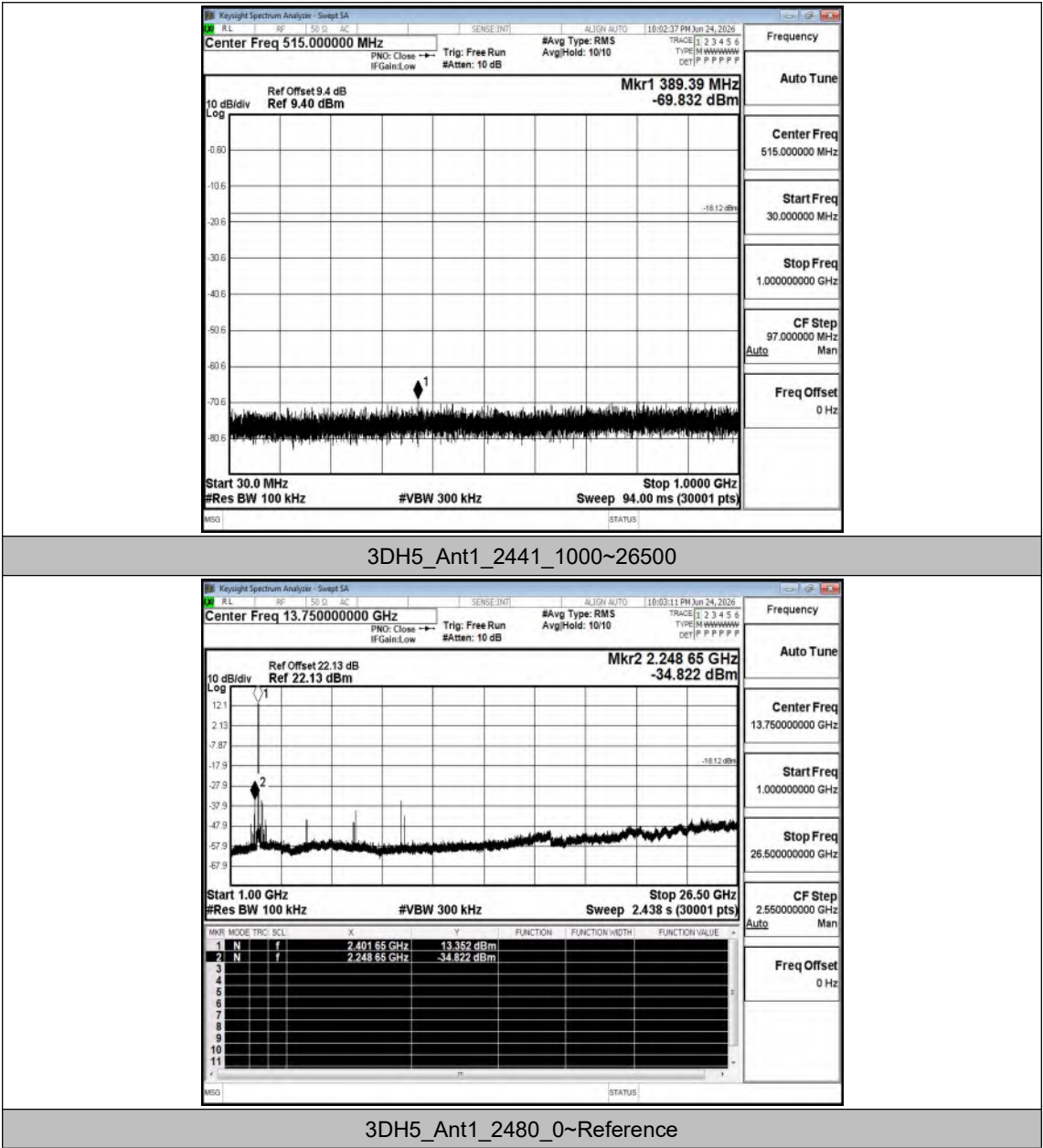


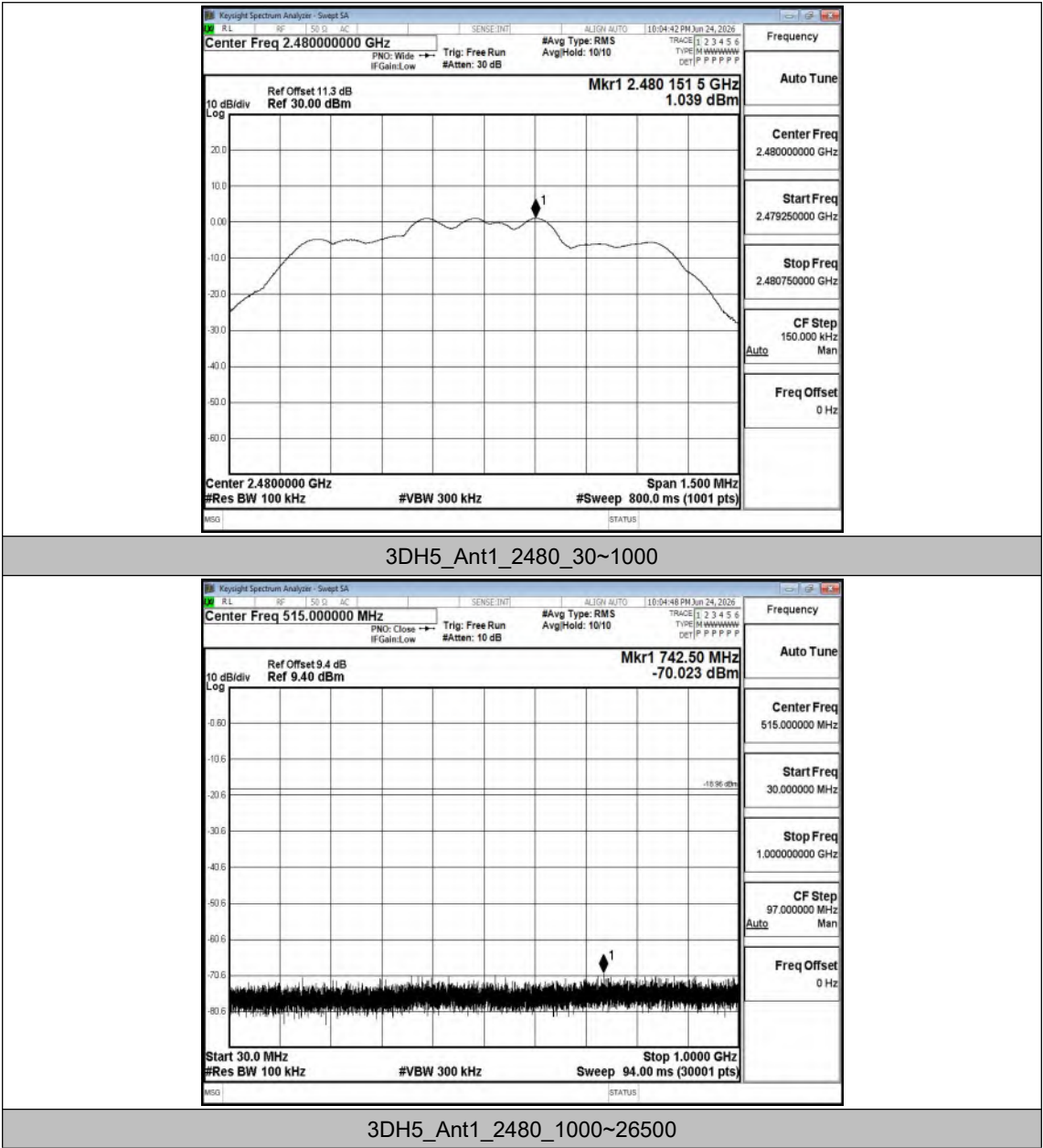


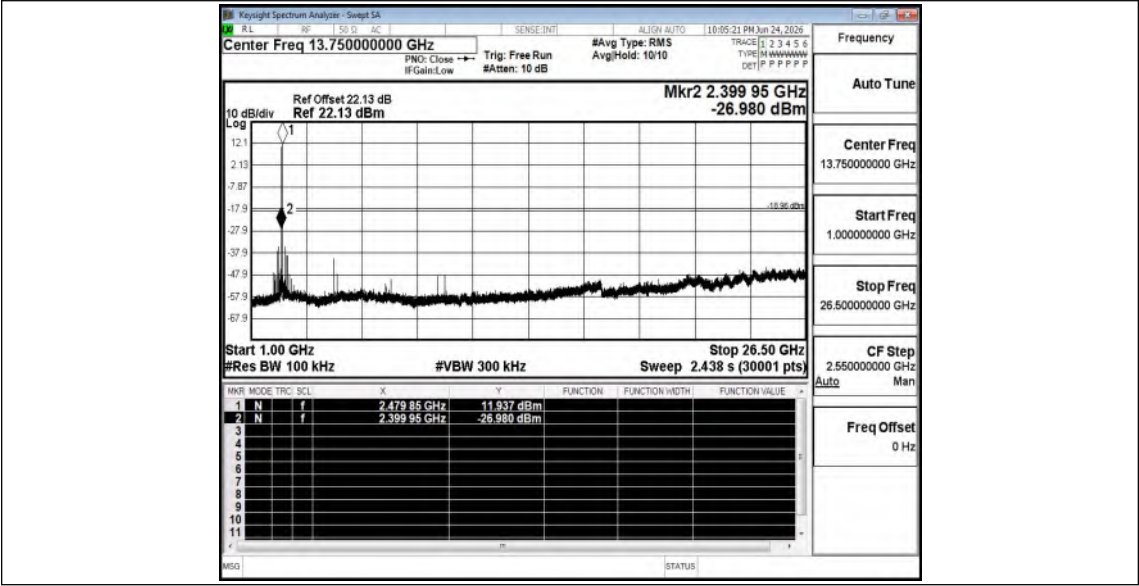










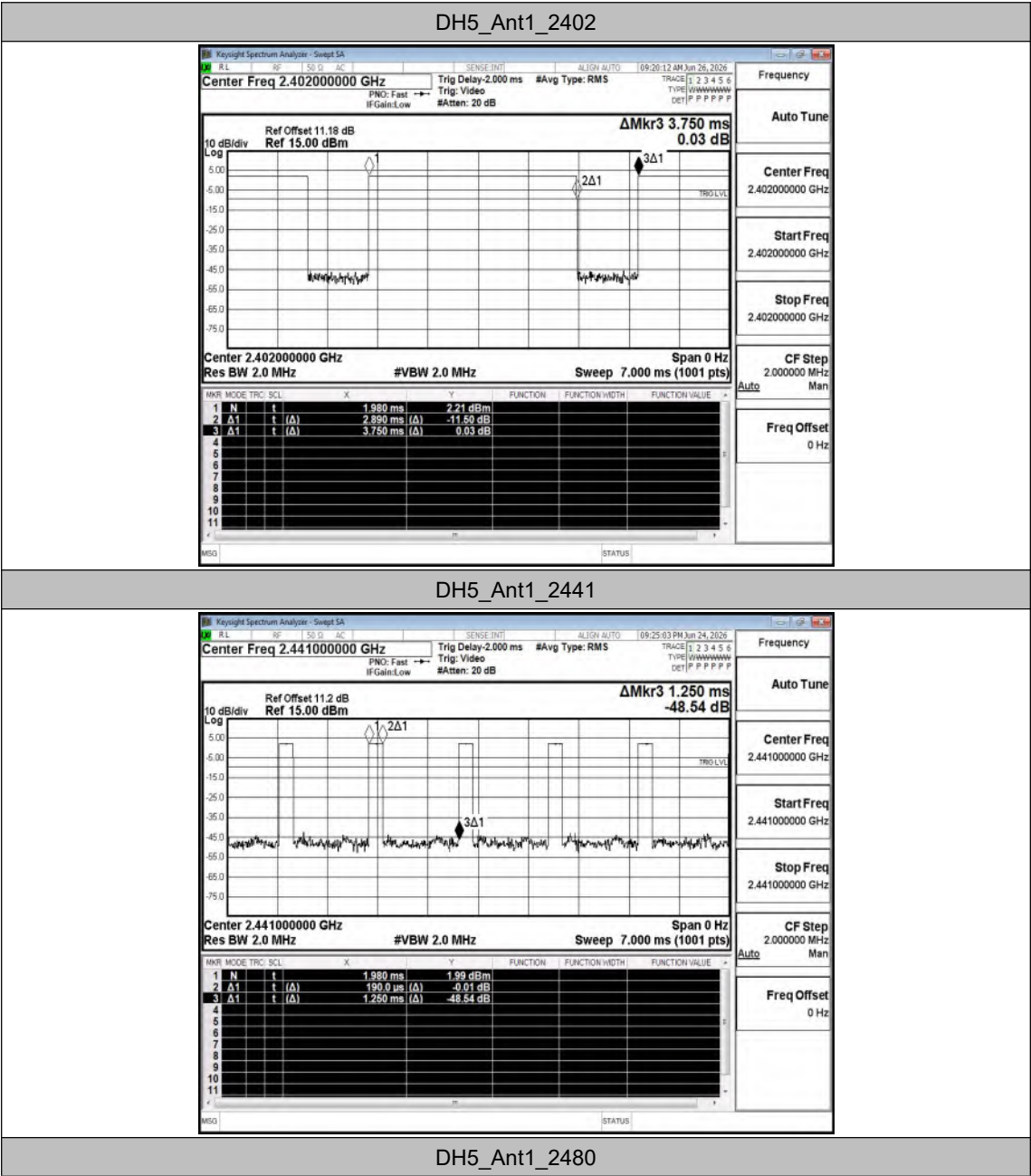


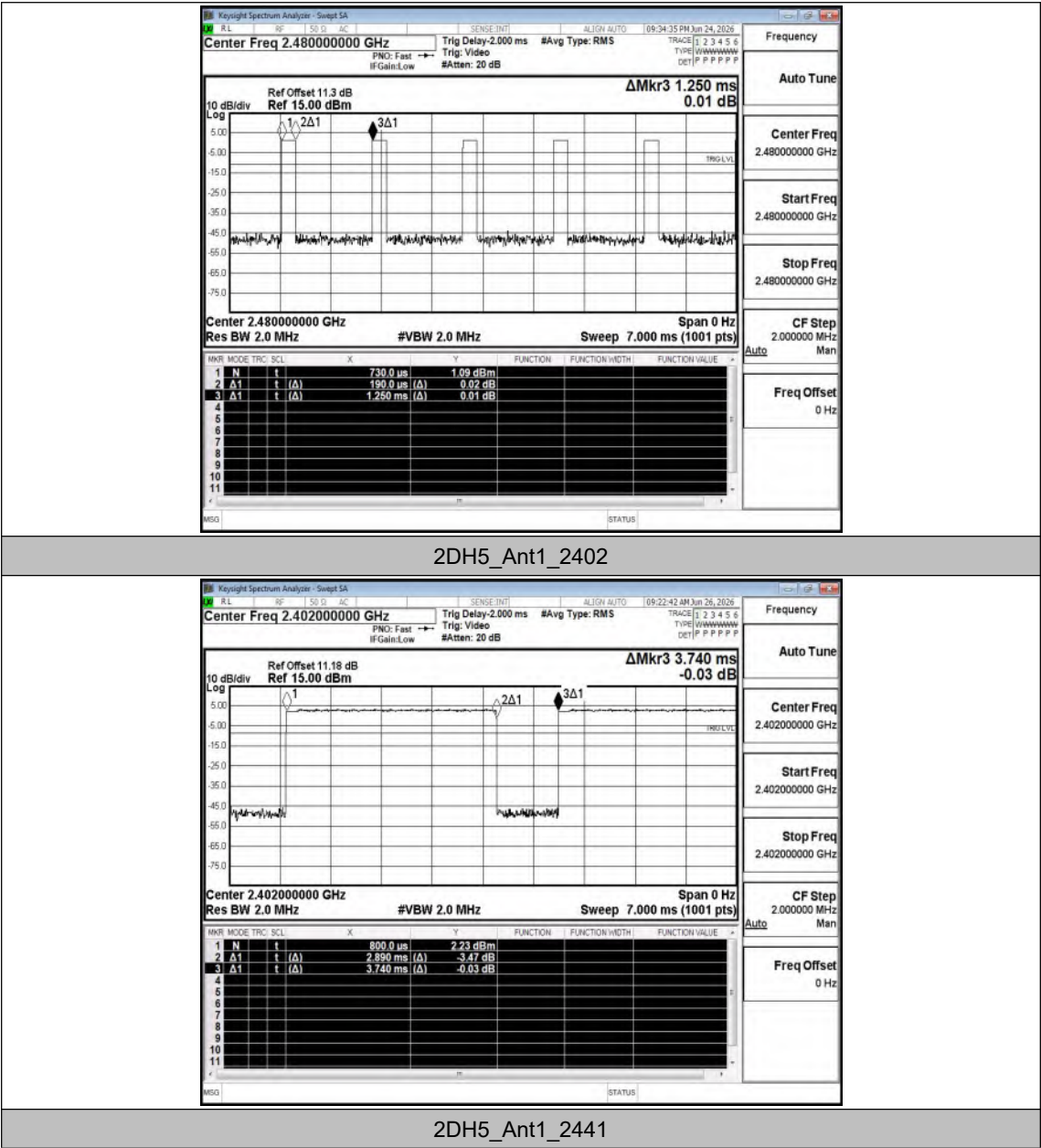
A.8 Duty Cycle

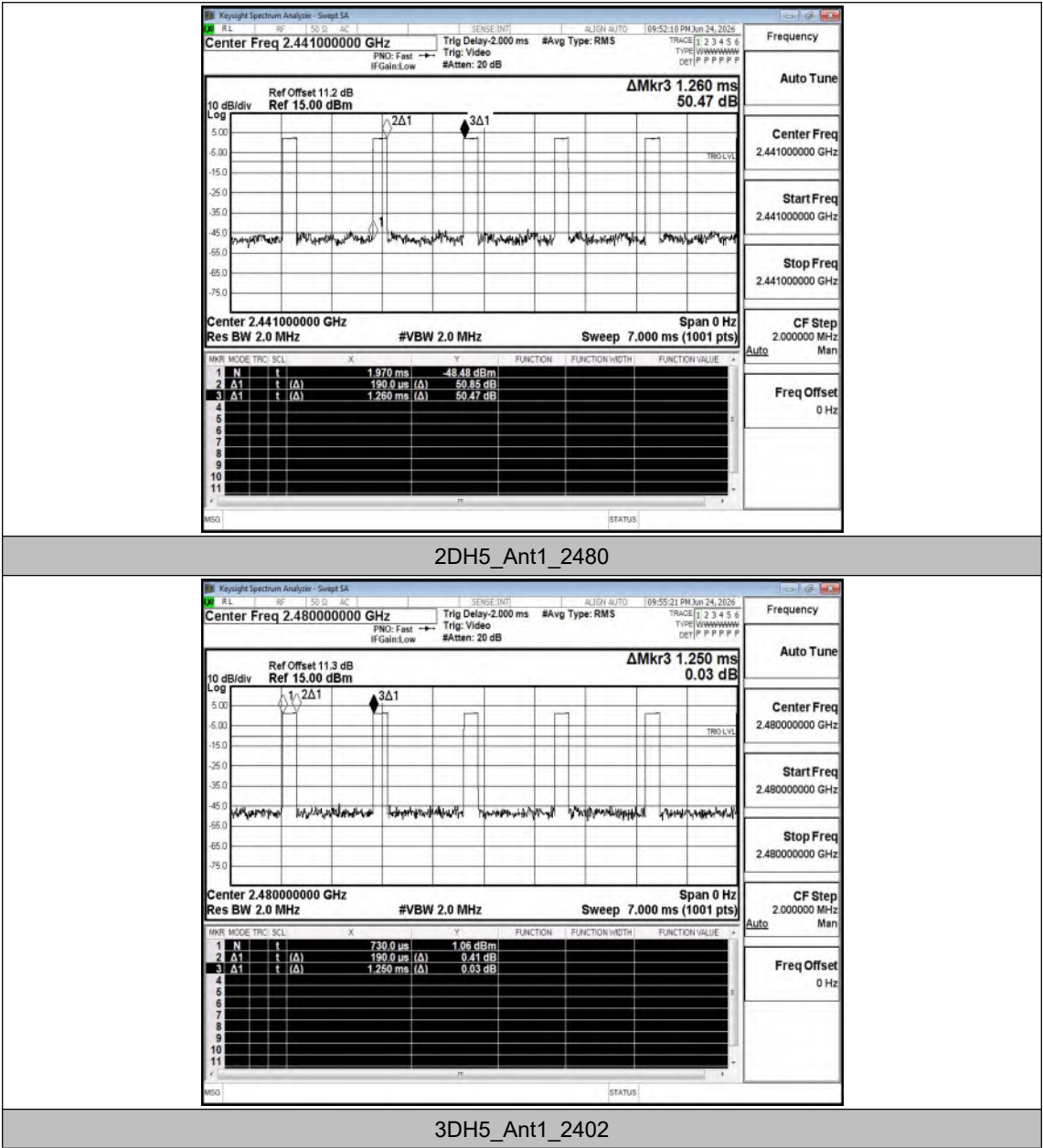
Test Result

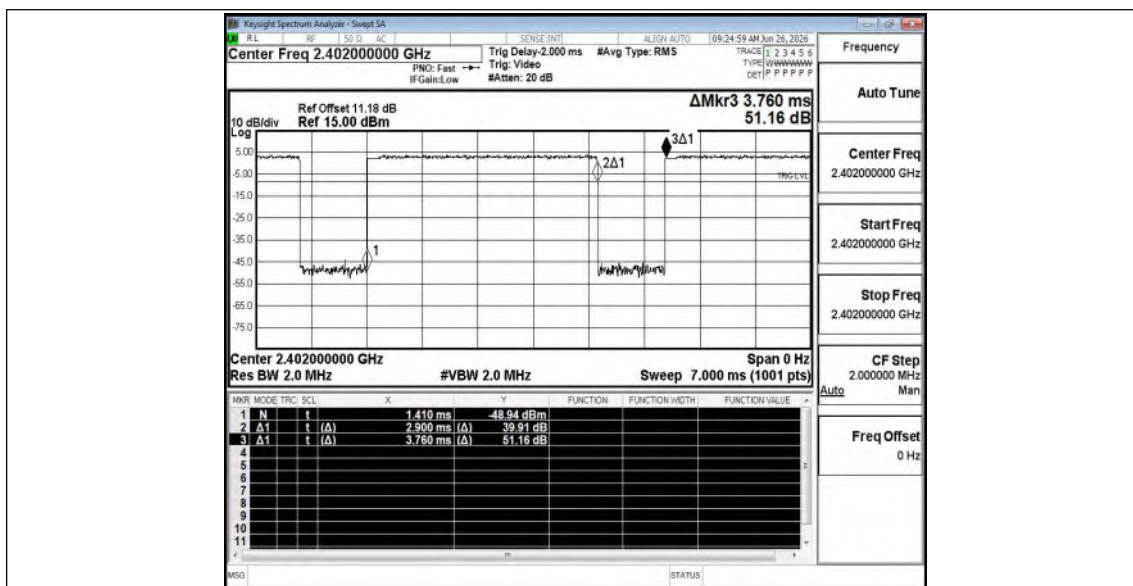
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.89	3.75	77.07	1.13	---	---
		2441	0.19	1.25	15.20	8.18	---	---
		2480	0.19	1.25	15.20	8.18	---	---
2DH5	Ant1	2402	2.89	3.74	77.27	1.12	---	---
		2441	0.19	1.26	15.08	8.22	---	---
		2480	0.19	1.25	15.20	8.18	---	---
3DH5	Ant1	2402	2.90	3.76	77.13	1.13	---	---
		2441	0.19	1.25	15.20	8.18	---	---
		2480	0.19	1.25	15.20	8.18	---	---

Test Graphs

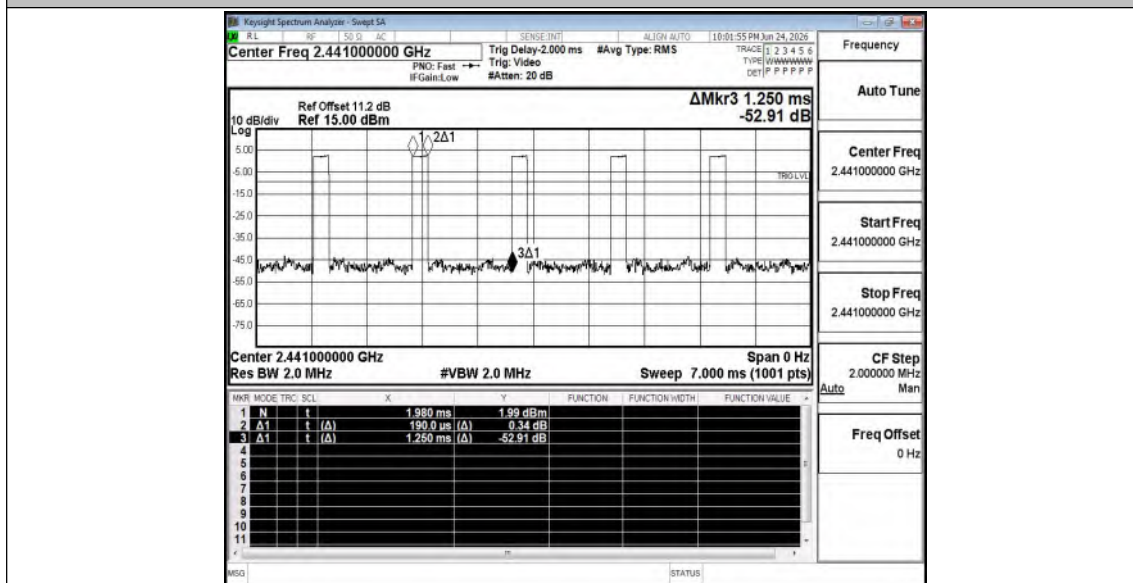




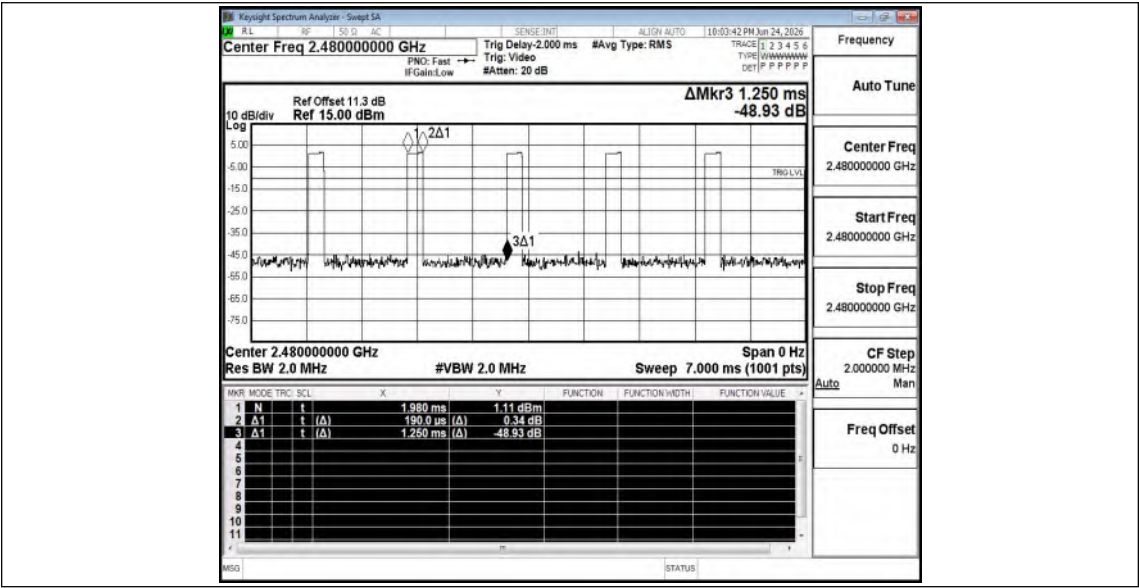




3DH5 Ant1 2441



3DH5 Ant1 2480



A.9 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Freq (MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Gain [dBi]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-57.54	≤-44.33	2.00	1.13	40.79	≤54	PASS
				AV	2354.180	-55.21	≤-44.33	2.00	1.13	43.12	≤54	PASS
				AV	2390.000	-56.97	≤-44.33	2.00	1.13	41.36	≤54	PASS
				Peak	2310.000	-49.93	≤-23.20	2.00	0.00	47.27	≤74	PASS
				Peak	2357.855	-44.8	≤-23.20	2.00	0.00	52.40	≤74	PASS
				Peak	2390.000	-47.87	≤-23.20	2.00	0.00	49.33	≤74	PASS
		High	2480	AV	2483.500	-54.02	≤-51.38	2.00	8.18	51.36	≤54	PASS
				AV	2483.520	-54.02	≤-51.38	2.00	8.18	51.36	≤54	PASS
				AV	2500.000	-57.11	≤-51.38	2.00	8.18	48.27	≤54	PASS
				Peak	2483.500	-43.3	≤-23.20	2.00	0.00	53.90	≤74	PASS
				Peak	2484.800	-37.28	≤-23.20	2.00	0.00	59.92	≤74	PASS
				Peak	2500.000	-47.21	≤-23.20	2.00	0.00	49.99	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-49.77	≤-23.20	2.00	0.00	47.43	≤74	PASS
				Peak	2321.735	-45.68	≤-23.20	2.00	0.00	51.52	≤74	PASS
				Peak	2390.000	-48.37	≤-23.20	2.00	0.00	48.83	≤74	PASS
		High	Hop_2480	Peak	2483.500	-49.35	≤-23.20	2.00	0.00	47.85	≤74	PASS
				Peak	2489.920	-46.36	≤-23.20	2.00	0.00	50.84	≤74	PASS
				Peak	2500.000	-47.02	≤-23.20	2.00	0.00	50.18	≤74	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-57.79	≤-44.32	2.00	1.12	40.53	≤54	PASS
				AV	2365.625	-55.09	≤-44.32	2.00	1.12	43.23	≤54	PASS
				AV	2390.000	-56.33	≤-44.32	2.00	1.12	41.99	≤54	PASS
				Peak	2310.000	-49.54	≤-23.20	2.00	0.00	47.66	≤74	PASS
				Peak	2361.950	-45.14	≤-23.20	2.00	0.00	52.06	≤74	PASS
				Peak	2390.000	-48.47	≤-23.20	2.00	0.00	48.73	≤74	PASS
		High	2480	AV	2483.500	-54.71	≤-51.38	2.00	8.18	50.67	≤54	PASS
				AV	2483.520	-54.71	≤-51.38	2.00	8.18	50.67	≤54	PASS
				AV	2500.000	-56.82	≤-51.38	2.00	8.18	48.56	≤54	PASS
				Peak	2483.500	-42.7	≤-23.20	2.00	0.00	54.50	≤74	PASS
				Peak	2484.000	-41.25	≤-23.20	2.00	0.00	55.95	≤74	PASS
				Peak	2500.000	-48.8	≤-23.20	2.00	0.00	48.40	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-51.01	≤-23.20	2.00	0.00	46.19	≤74	PASS
				Peak	2383.685	-44.82	≤-23.20	2.00	0.00	52.38	≤74	PASS
				Peak	2390.000	-47.82	≤-23.20	2.00	0.00	49.38	≤74	PASS
		High	Hop_2480	Peak	2483.500	-48.44	≤-23.20	2.00	0.00	48.76	≤74	PASS

				Peak	2489.840	-45.69	≤ -23.20	2.00	0.00	51.51	≤ 74	PASS
				Peak	2500.000	-47.83	≤ -23.20	2.00	0.00	49.37	≤ 74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-57.85	≤ -44.33	2.00	1.13	40.48	≤ 54	PASS
				AV	2363.315	-55.41	≤ -44.33	2.00	1.13	42.92	≤ 54	PASS
				AV	2390.000	-57.2	≤ -44.33	2.00	1.13	41.13	≤ 54	PASS
				Peak	2310.000	-49.87	≤ -23.20	2.00	0.00	47.33	≤ 74	PASS
				Peak	2371.505	-44.54	≤ -23.20	2.00	0.00	52.66	≤ 74	PASS
				Peak	2390.000	-47.99	≤ -23.20	2.00	0.00	49.21	≤ 74	PASS
		High	2480	AV	2483.500	-55.1	≤ -51.38	2.00	8.18	50.28	≤ 54	PASS
				AV	2483.520	-55.1	≤ -51.38	2.00	8.18	50.28	≤ 54	PASS
				AV	2500.000	-57.07	≤ -51.38	2.00	8.18	48.31	≤ 54	PASS
				Peak	2483.500	-44.16	≤ -23.20	2.00	0.00	53.04	≤ 74	PASS
				Peak	2483.760	-39.59	≤ -23.20	2.00	0.00	57.61	≤ 74	PASS
				Peak	2500.000	-47.76	≤ -23.20	2.00	0.00	49.44	≤ 74	PASS
		Low	Hop_2402	Peak	2310.000	-50.54	≤ -23.20	2.00	0.00	46.66	≤ 74	PASS
				Peak	2376.965	-45.26	≤ -23.20	2.00	0.00	51.94	≤ 74	PASS
				Peak	2390.000	-47.66	≤ -23.20	2.00	0.00	49.54	≤ 74	PASS
		High	Hop_2480	Peak	2483.500	-45.72	≤ -23.20	2.00	0.00	51.48	≤ 74	PASS
				Peak	2492.800	-45.33	≤ -23.20	2.00	0.00	51.87	≤ 74	PASS
				Peak	2500.000	-47.07	≤ -23.20	2.00	0.00	50.13	≤ 74	PASS

Note:

1. The Antenna Gain is compensated in the graph.
2. 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

