

Appendix A

RF Test Data for BT(BDR/EDR) (Conducted Measurement)

Product Name: NucBox

Trade Mark: GMK

Test Model: KB1

FCC ID: 2AXUD-KB1

Environmental Conditions

Temperature:	22.8° C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

A.1 20 dB Bandwidth

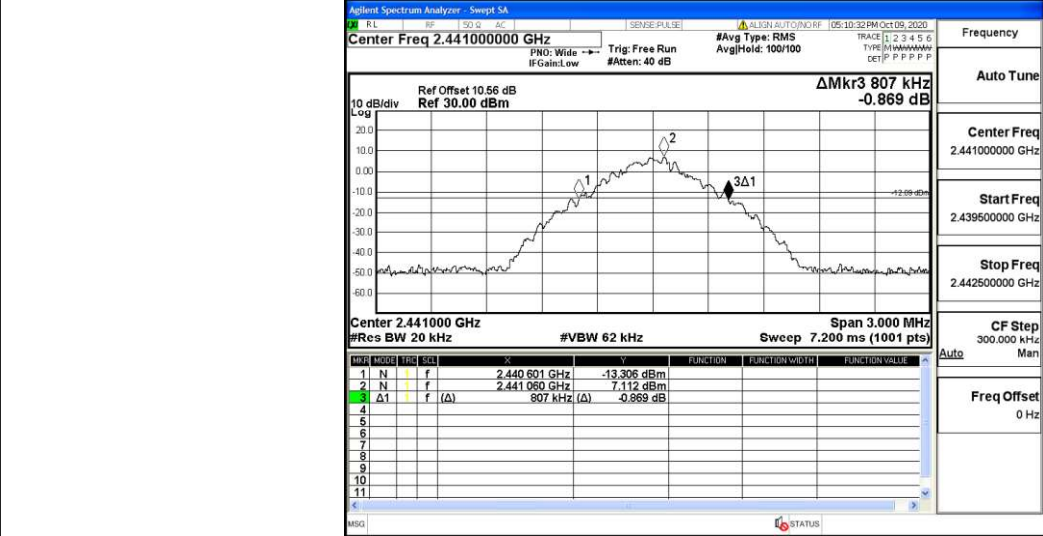
TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.804	2401.601	2402.405	---	PASS
		2441	0.807	2440.601	2441.408	---	PASS
		2480	0.804	2479.604	2480.408	---	PASS
2DH5	Ant1	2402	1.302	2401.349	2402.651	---	PASS
		2441	1.251	2440.382	2441.633	---	PASS
		2480	1.260	2479.379	2480.639	---	PASS
3DH5	Ant1	2402	1.278	2401.355	2402.633	---	PASS
		2441	1.296	2440.352	2441.648	---	PASS
		2480	1.275	2479.355	2480.630	---	PASS

Test Graph

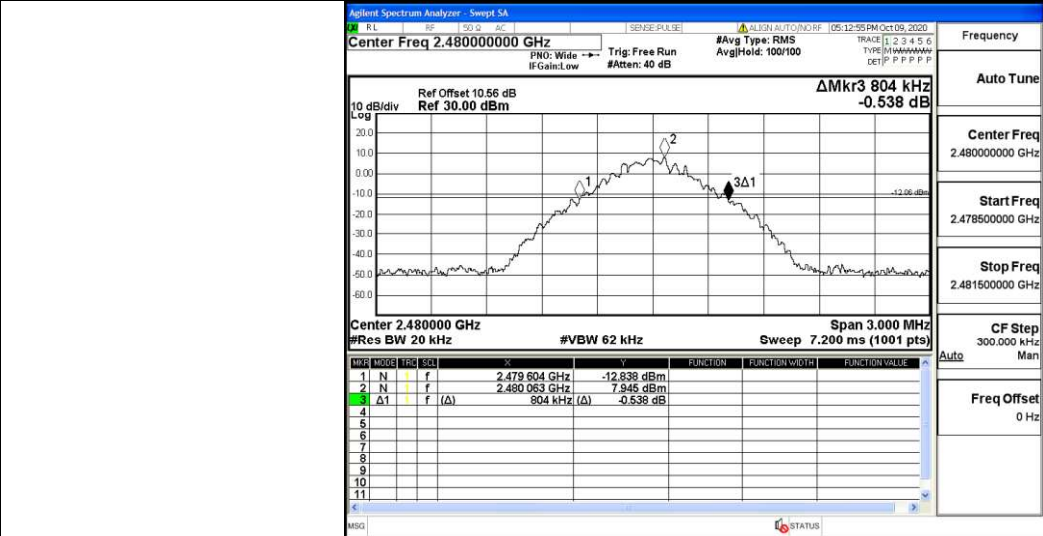
DH5_Ant1_2402



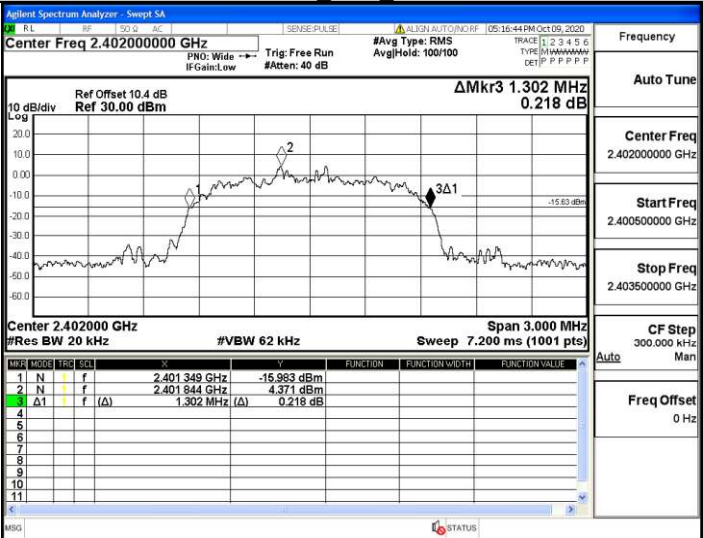
DH5_Ant1_2441



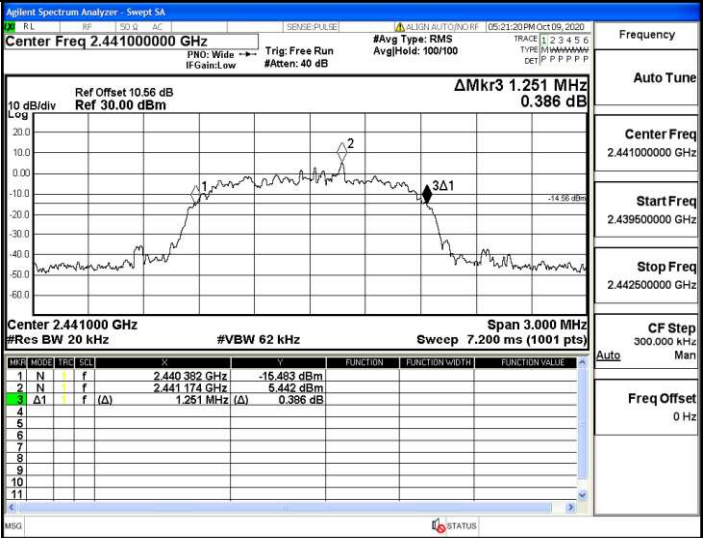
DH5_Ant1_2480



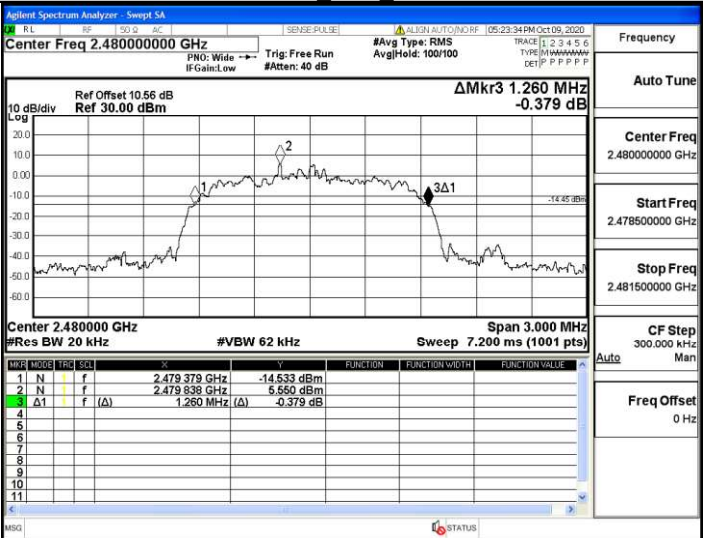
2DH5 Ant1_2402

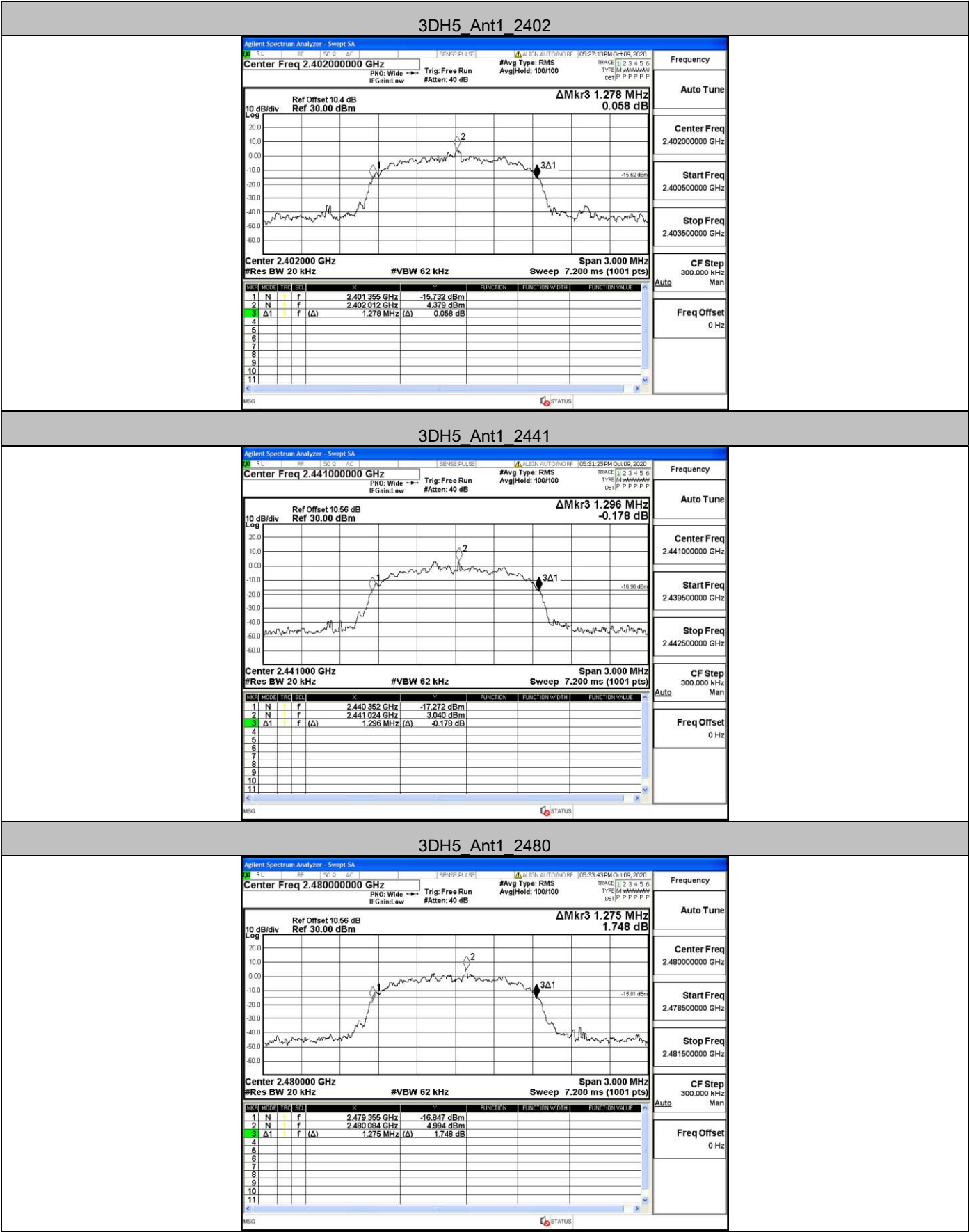


2DH5 Ant1_2441



2DH5 Ant1_2480

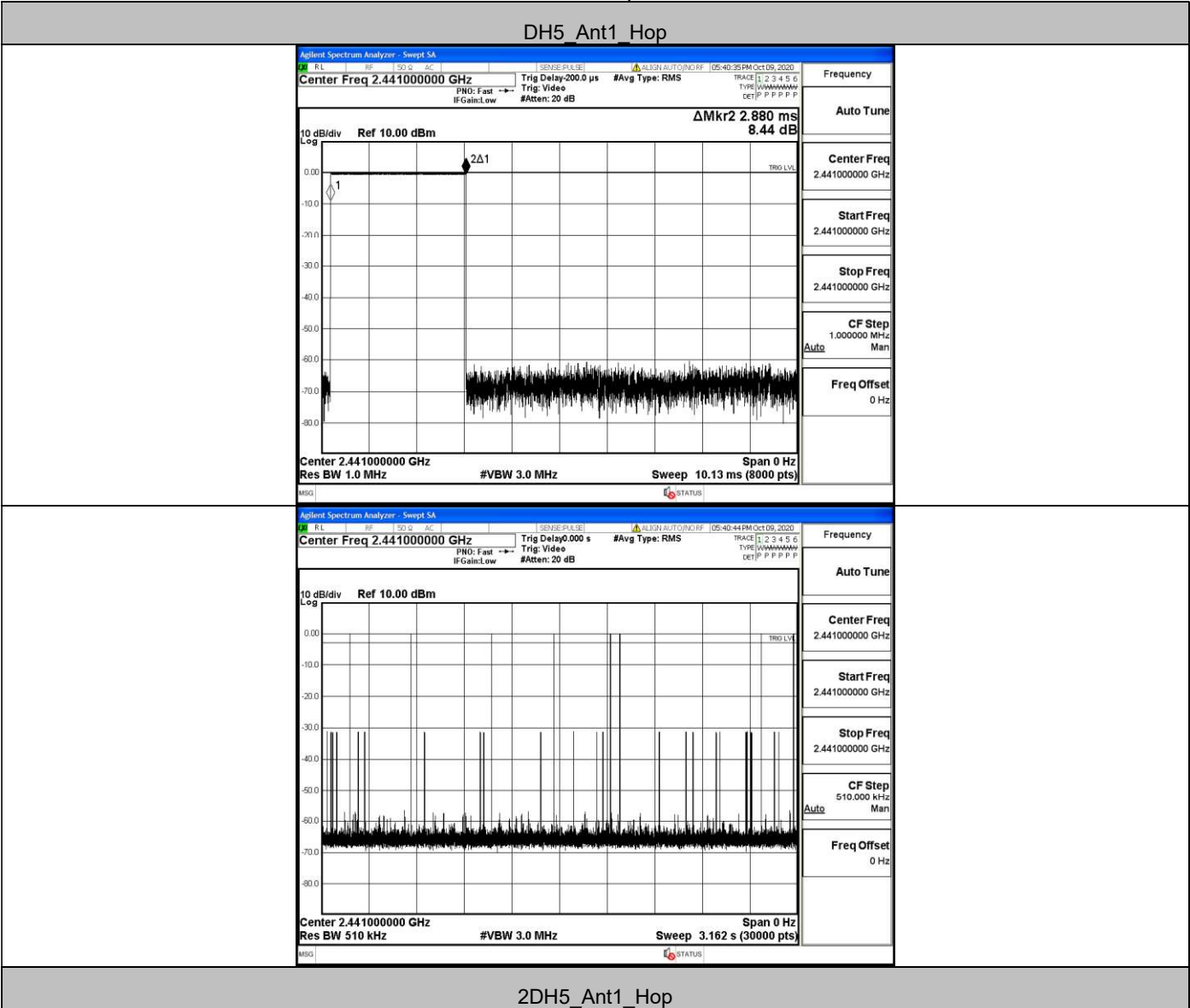


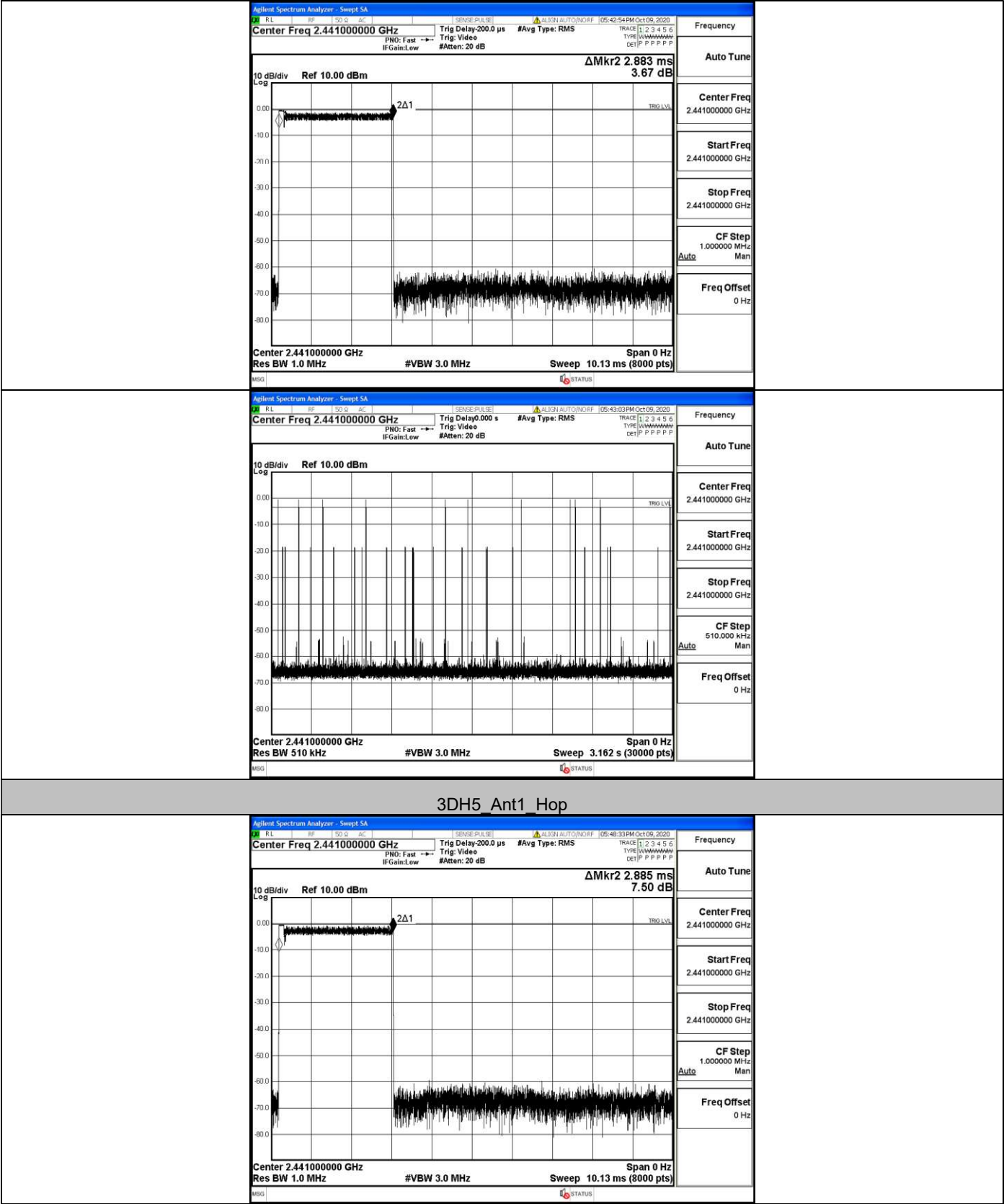


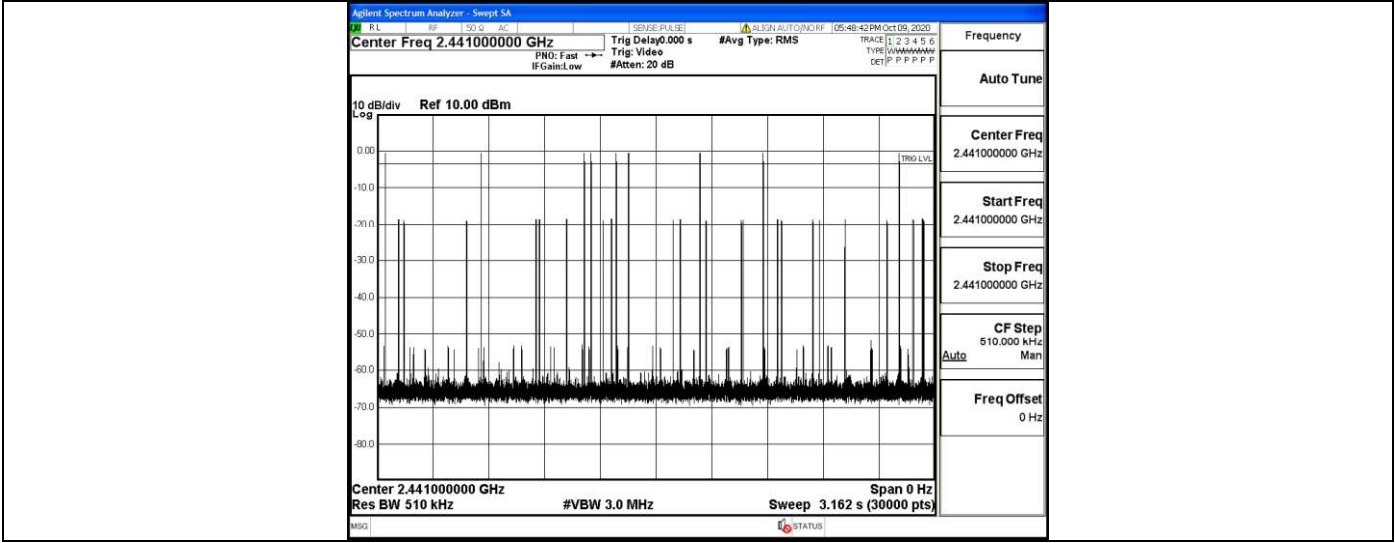
A.2 Dwell Time

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.88	90	0.259	<=0.4	PASS
2DH5	Ant1	Hop	2.88	120	0.346	<=0.4	PASS
3DH5	Ant1	Hop	2.89	100	0.289	<=0.4	PASS

Test Graph



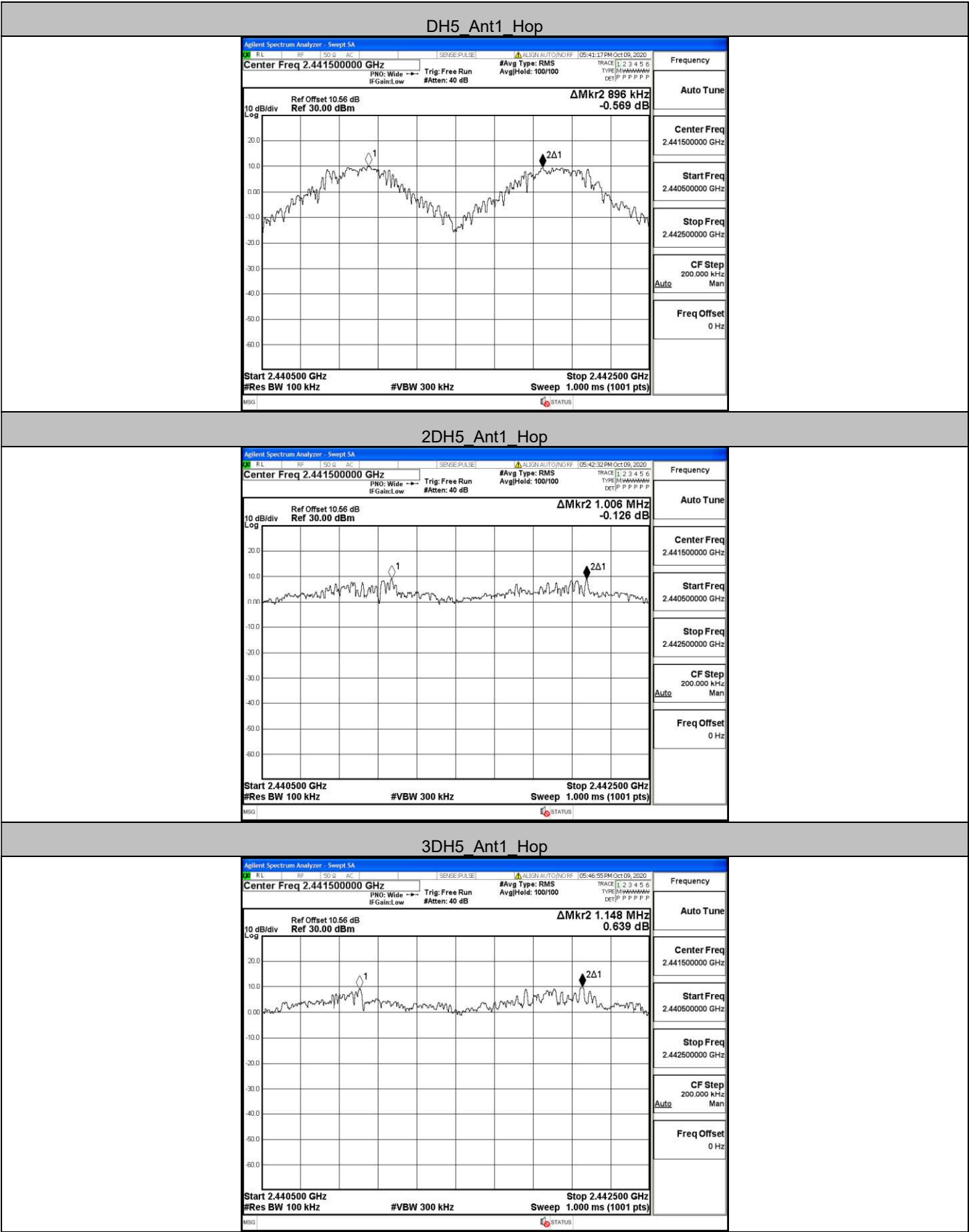




A.3 Carrier Frequency Separation

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.896	≥ 0.807	PASS
2DH5	Ant1	Hop	1.006	≥ 0.868	PASS
3DH5	Ant1	Hop	1.148	≥ 0.864	PASS

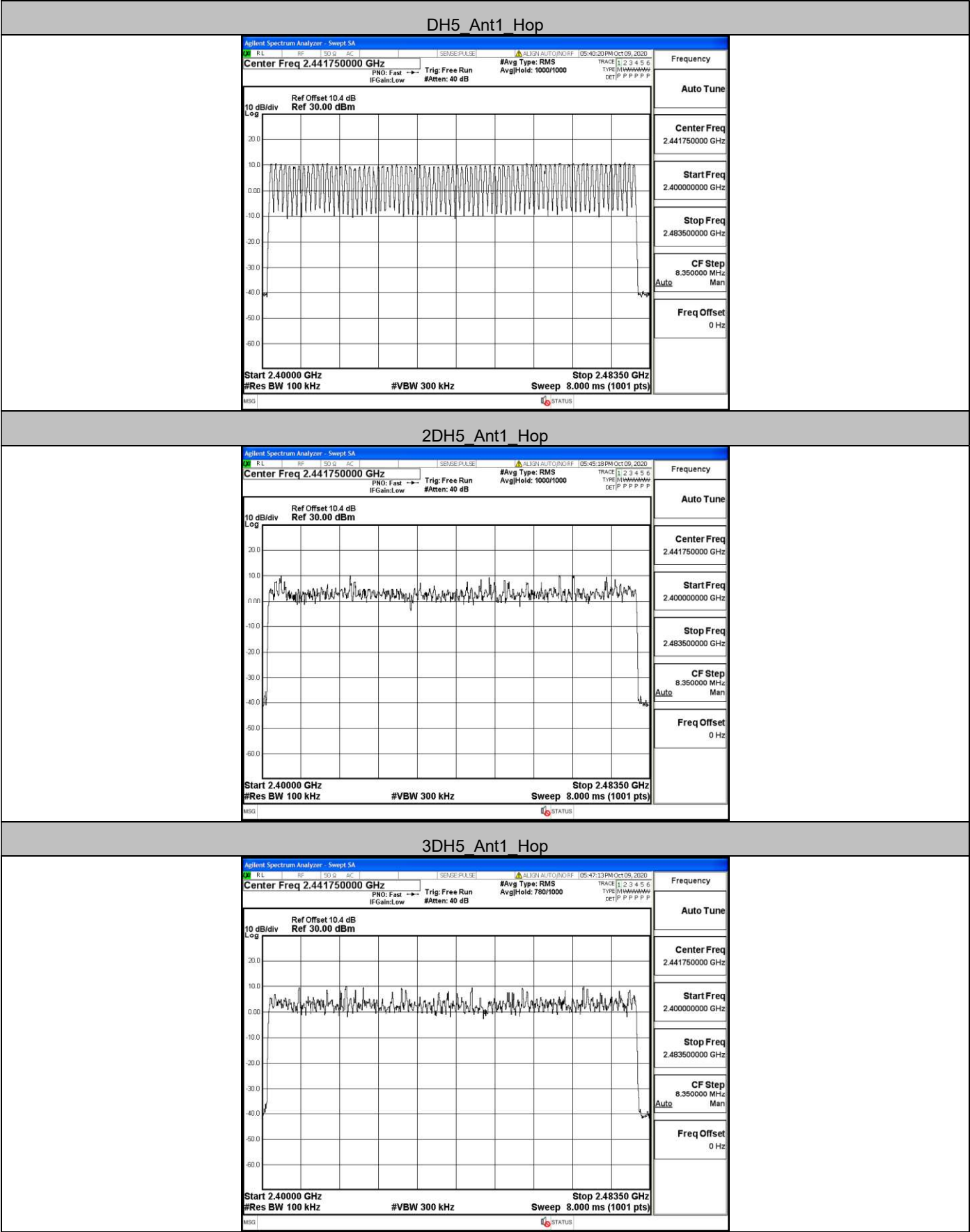
Test Graph



A.4 Hopping Channel Number

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	>=15	PASS
2DH5	Ant1	Hop	79	>=15	PASS
3DH5	Ant1	Hop	79	>=15	PASS

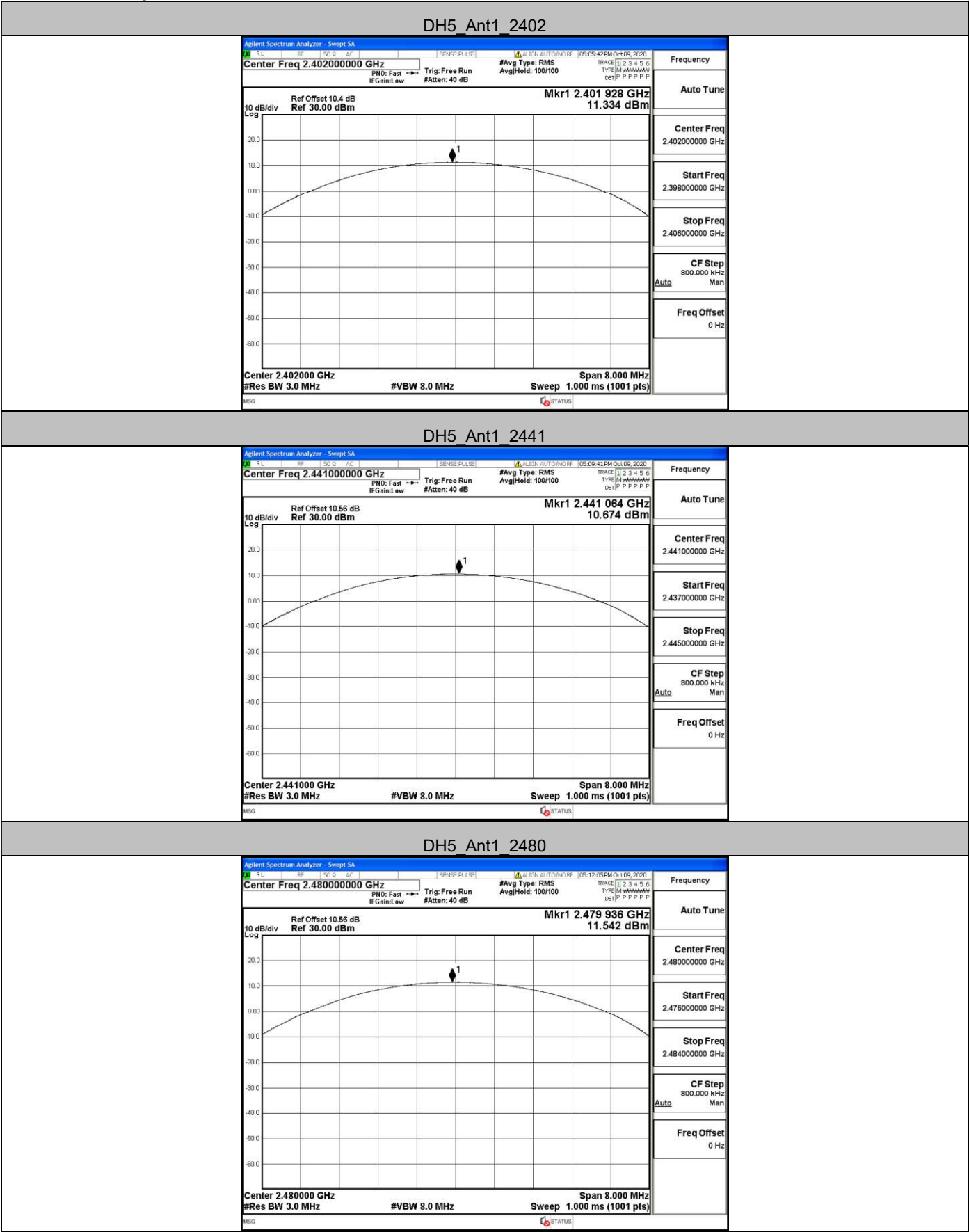
Test Graph

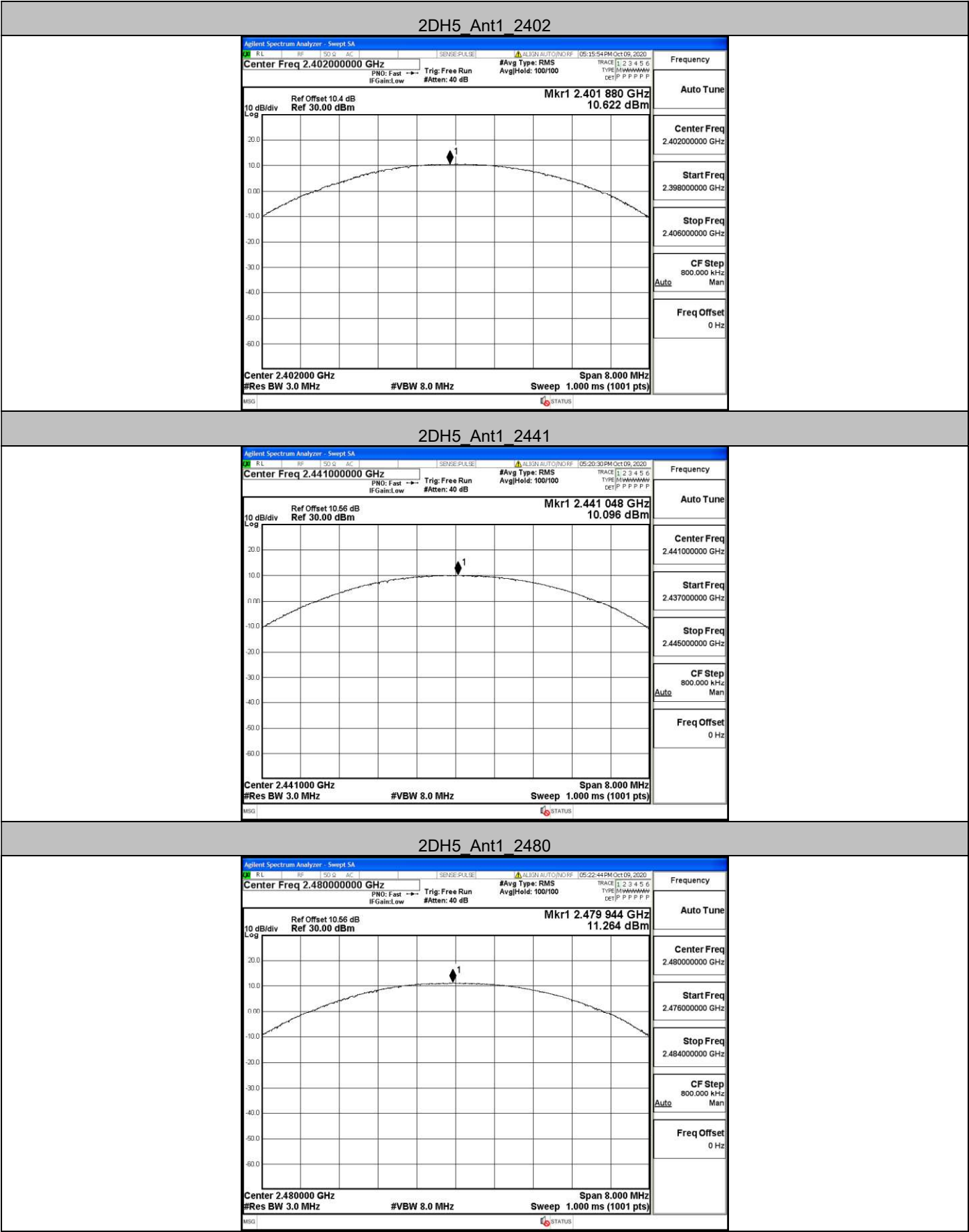


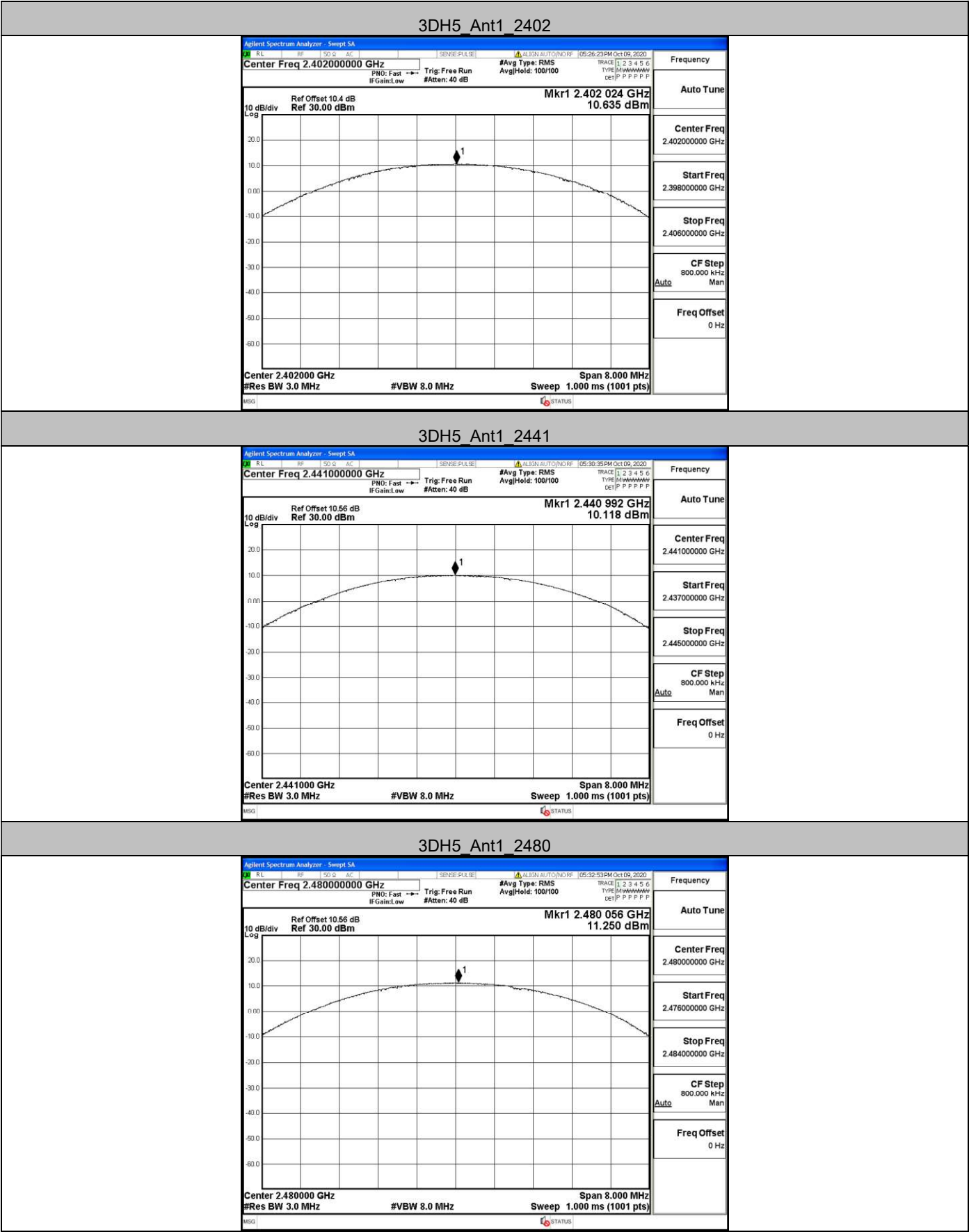
A.5 Conducted Peak Output Power

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	11.33	<=30	PASS
		2441	10.67	<=30	PASS
		2480	11.54	<=30	PASS
2DH5	Ant1	2402	10.62	<=30	PASS
		2441	10.1	<=30	PASS
		2480	11.26	<=30	PASS
3DH5	Ant1	2402	10.64	<=30	PASS
		2441	10.12	<=30	PASS
		2480	11.25	<=30	PASS

Test Graph





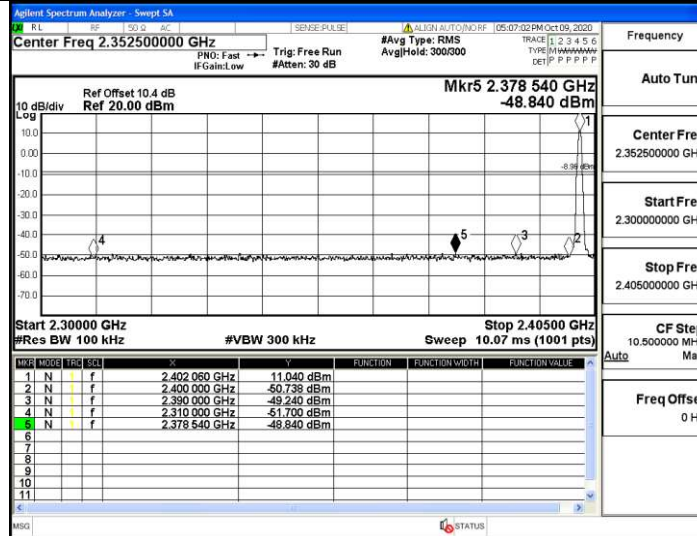


A.6 Band-edge for RF Conducted Emissions

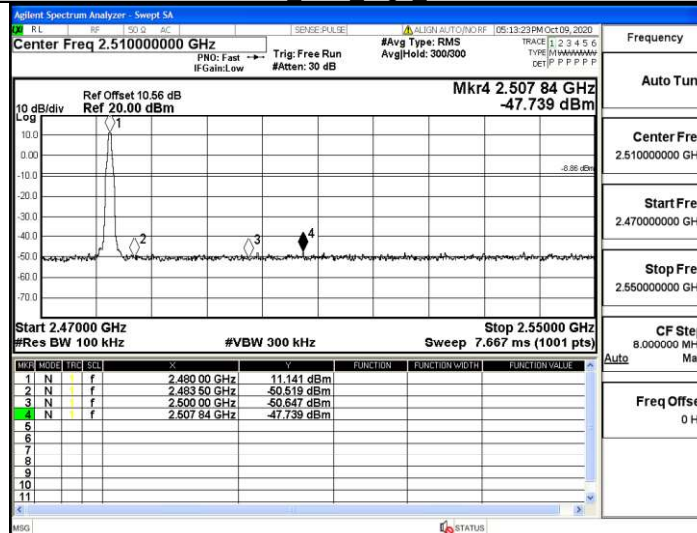
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	11.04	-48.84	<=-8.96	PASS
		High	2480	11.14	-47.74	<=-8.86	PASS
		Low	Hop_2402	10.98	-49.35	<=-9.02	PASS
		High	Hop_2480	11.18	-47.4	<=-8.82	PASS
2DH5	Ant1	Low	2402	9.86	-48.08	<=-10.14	PASS
		High	2480	10.83	-47.81	<=-9.18	PASS
		Low	Hop_2402	4.79	-48.99	<=-15.21	PASS
		High	Hop_2480	6.01	-47.61	<=-13.99	PASS
3DH5	Ant1	Low	2402	10.02	-48.27	<=-9.98	PASS
		High	2480	10.97	-47.01	<=-9.03	PASS
		Low	Hop_2402	5.44	-48.14	<=-14.56	PASS
		High	Hop_2480	10.01	-47.86	<=-9.99	PASS

Test Graph

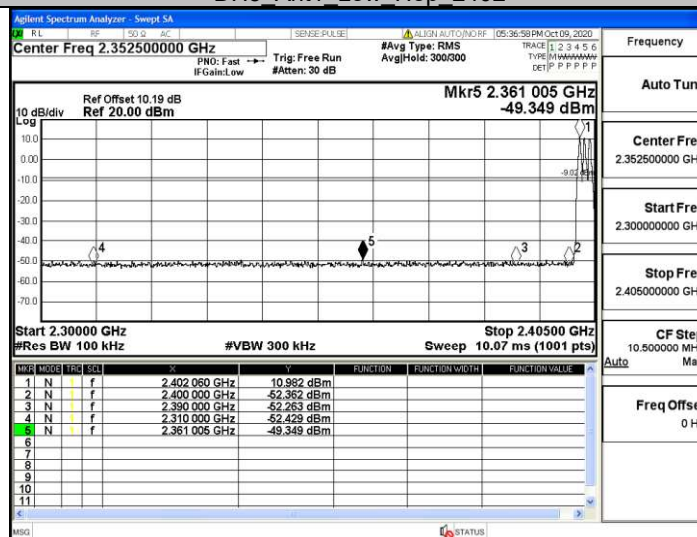
DH5_Ant1_Low_2402



DH5_Ant1_High_2480

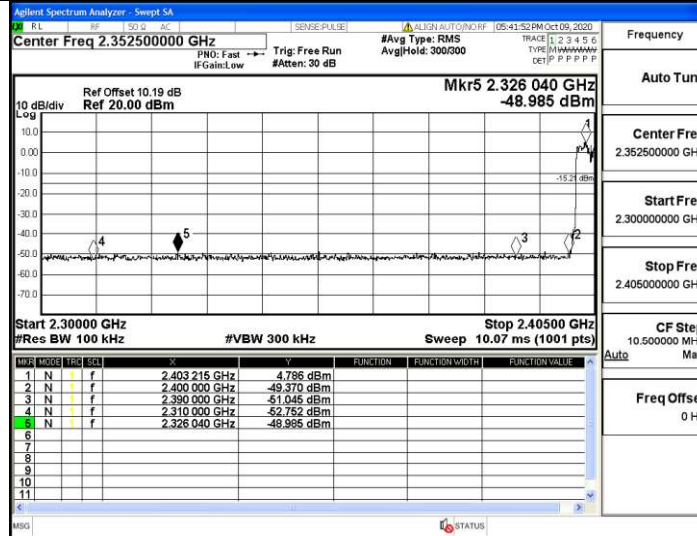


DH5_Ant1_Low_Hop_2402

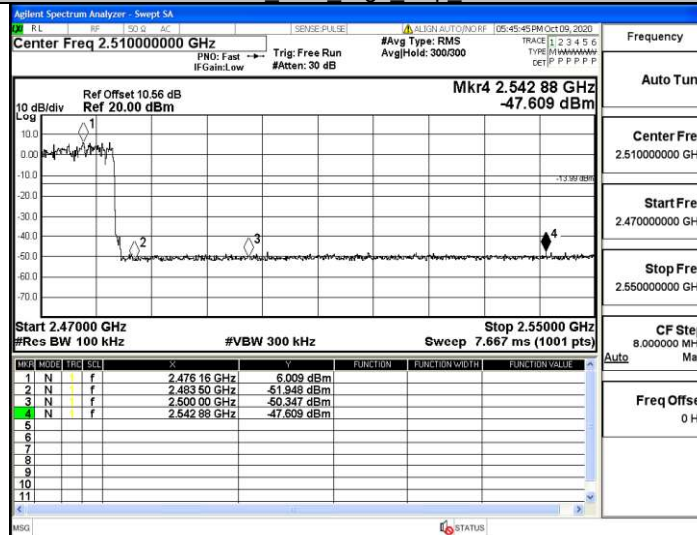




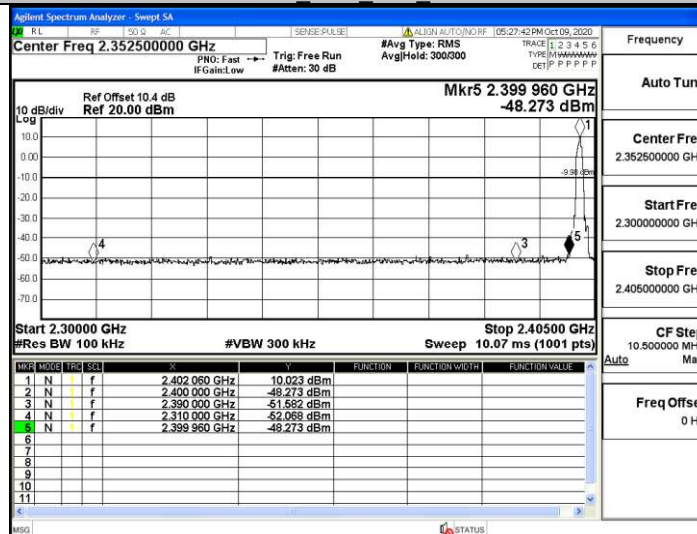
2DH5 Ant1 Low Hop 2402



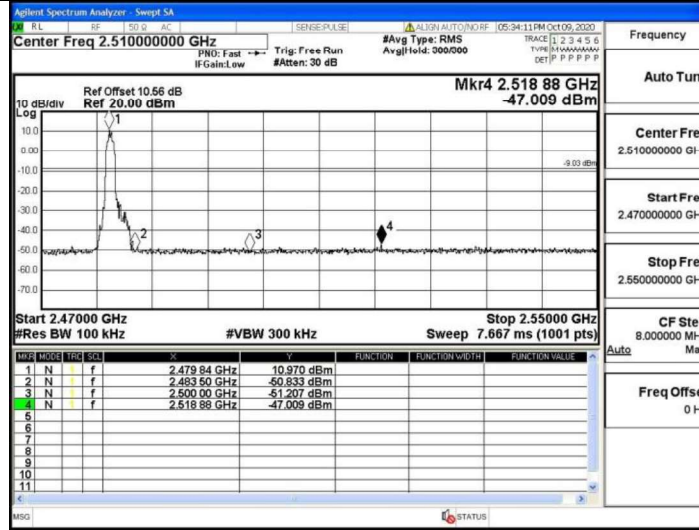
2DH5 Ant1 High Hop 2480



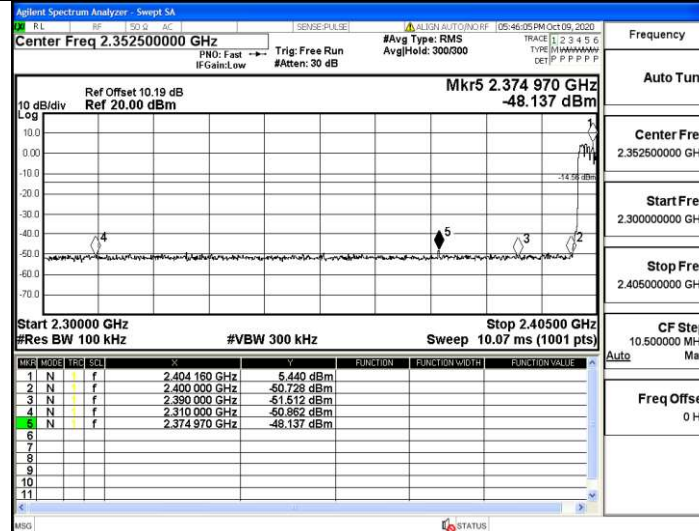
3DH5 Ant1 Low 2402



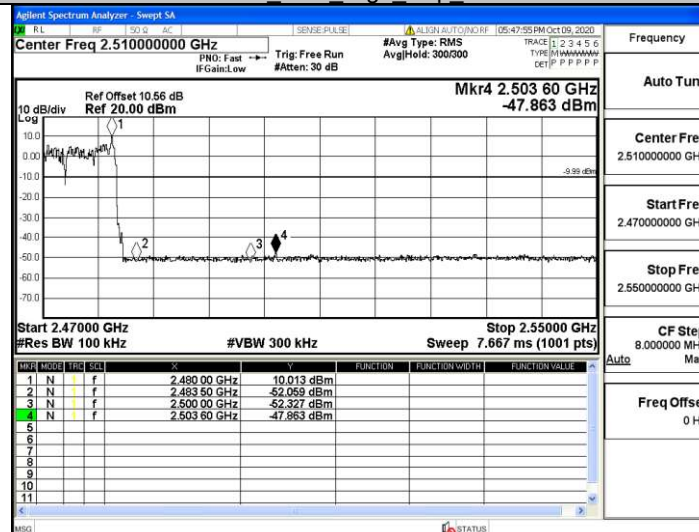
3DH5 Ant1 High 2480



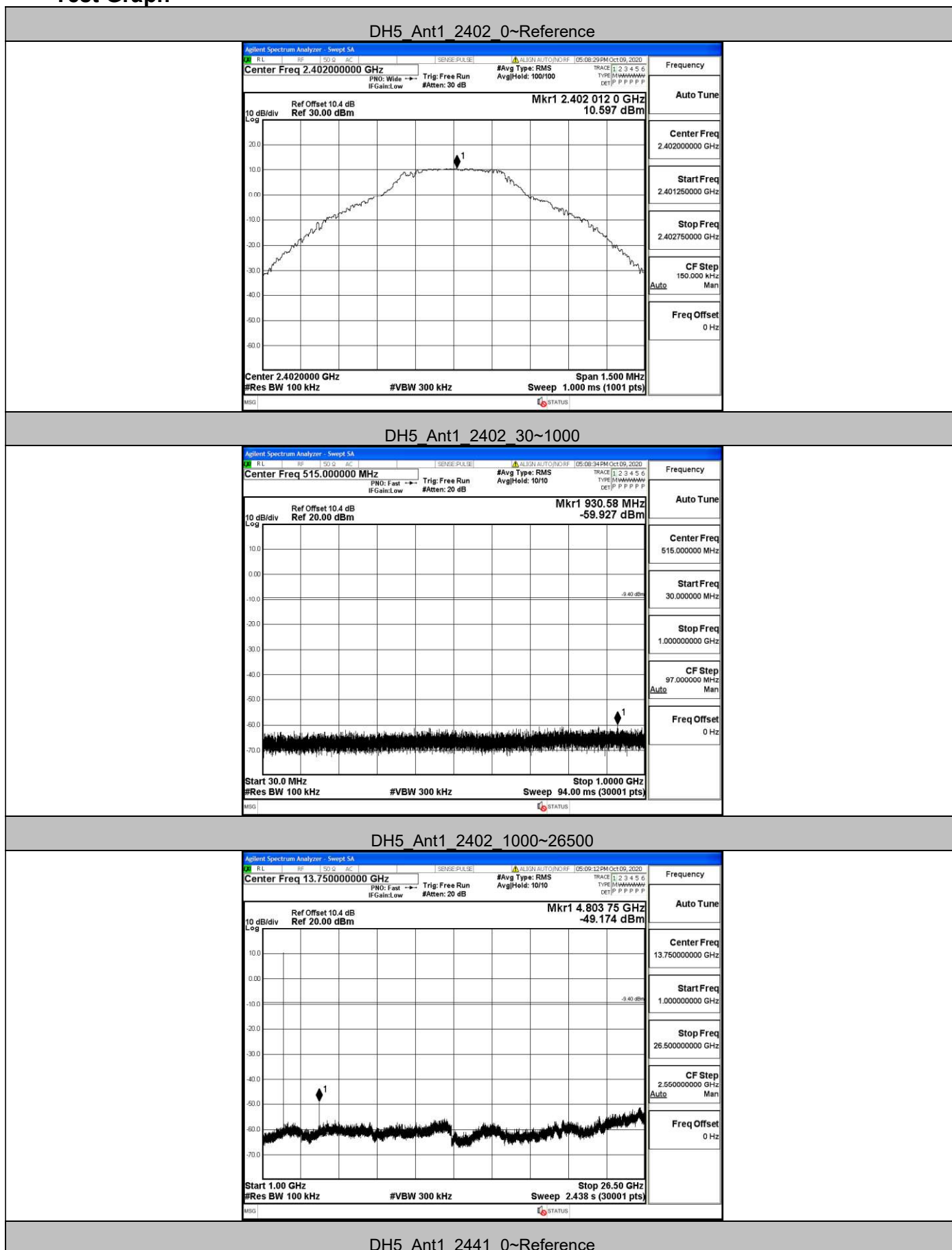
3DH5 Ant1 Low Hop 2402

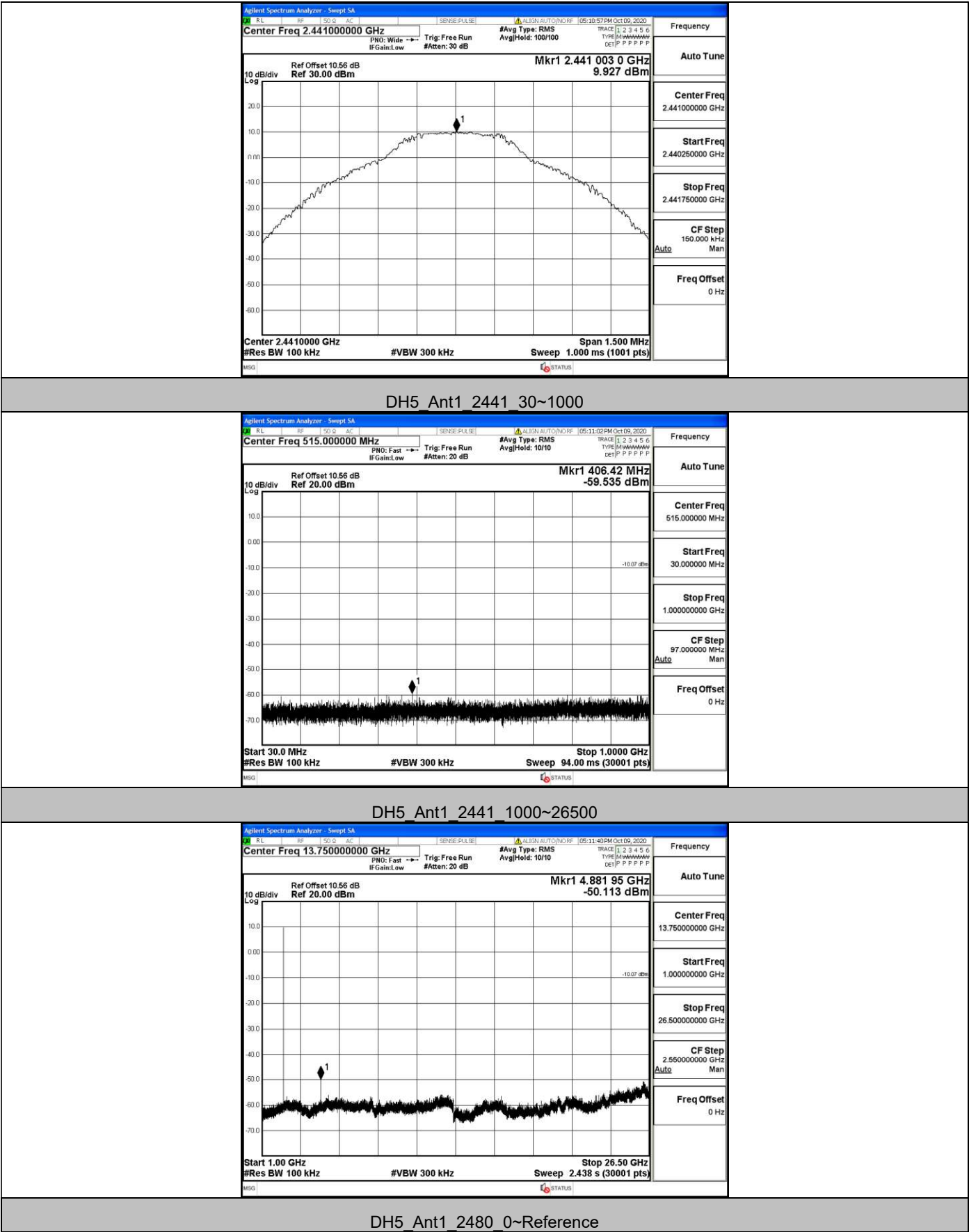


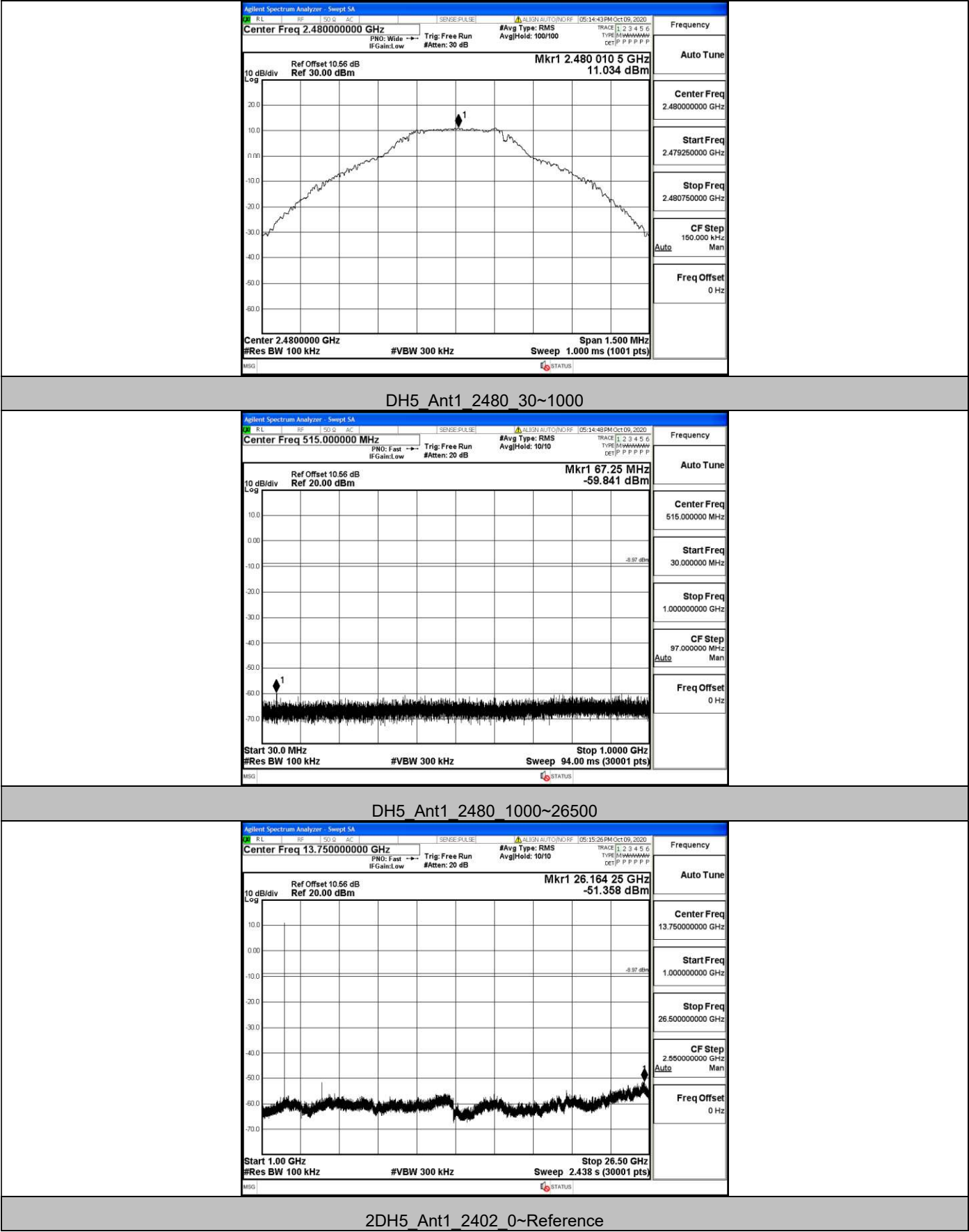
3DH5 Ant1 High Hop 2480

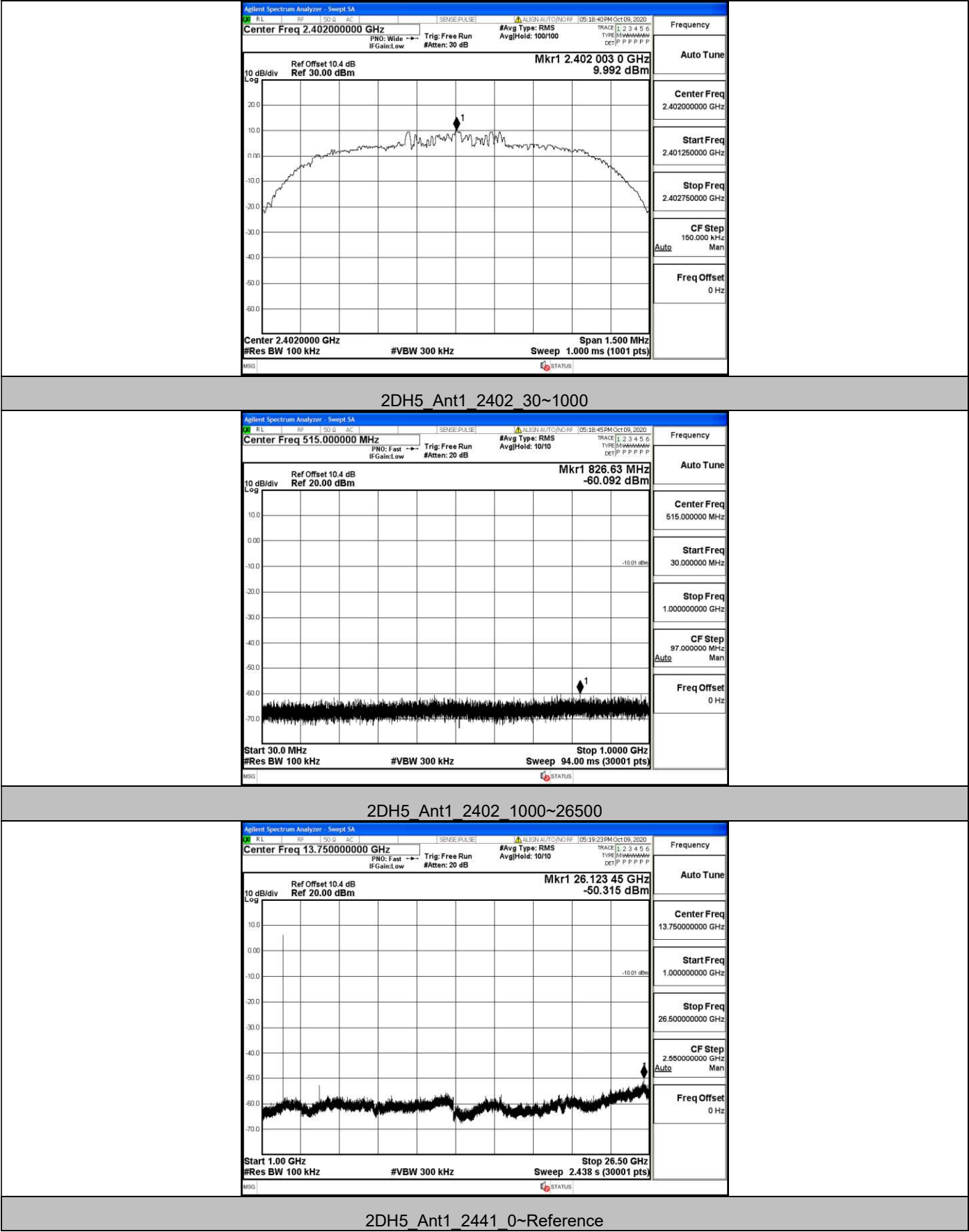


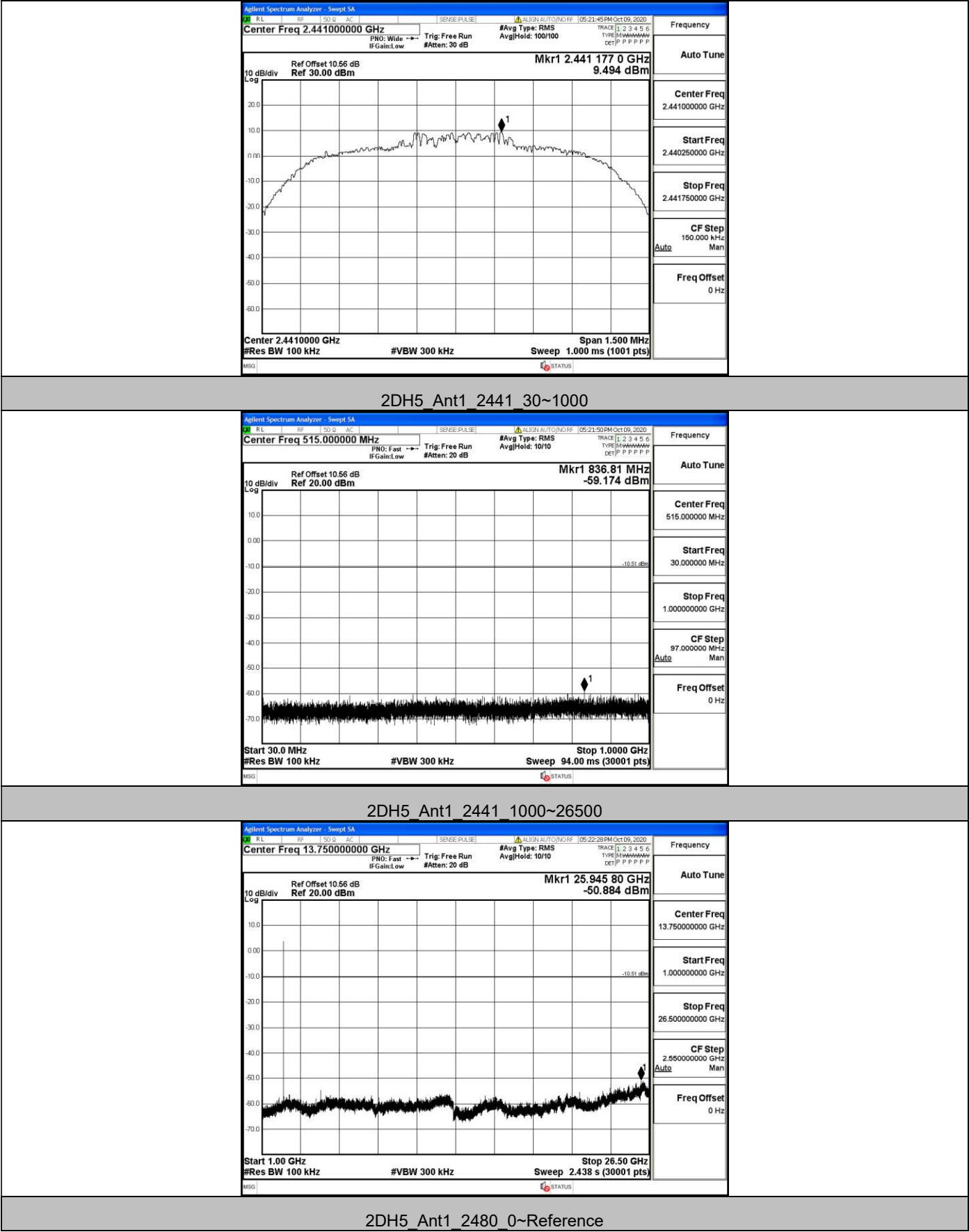
Test Graph

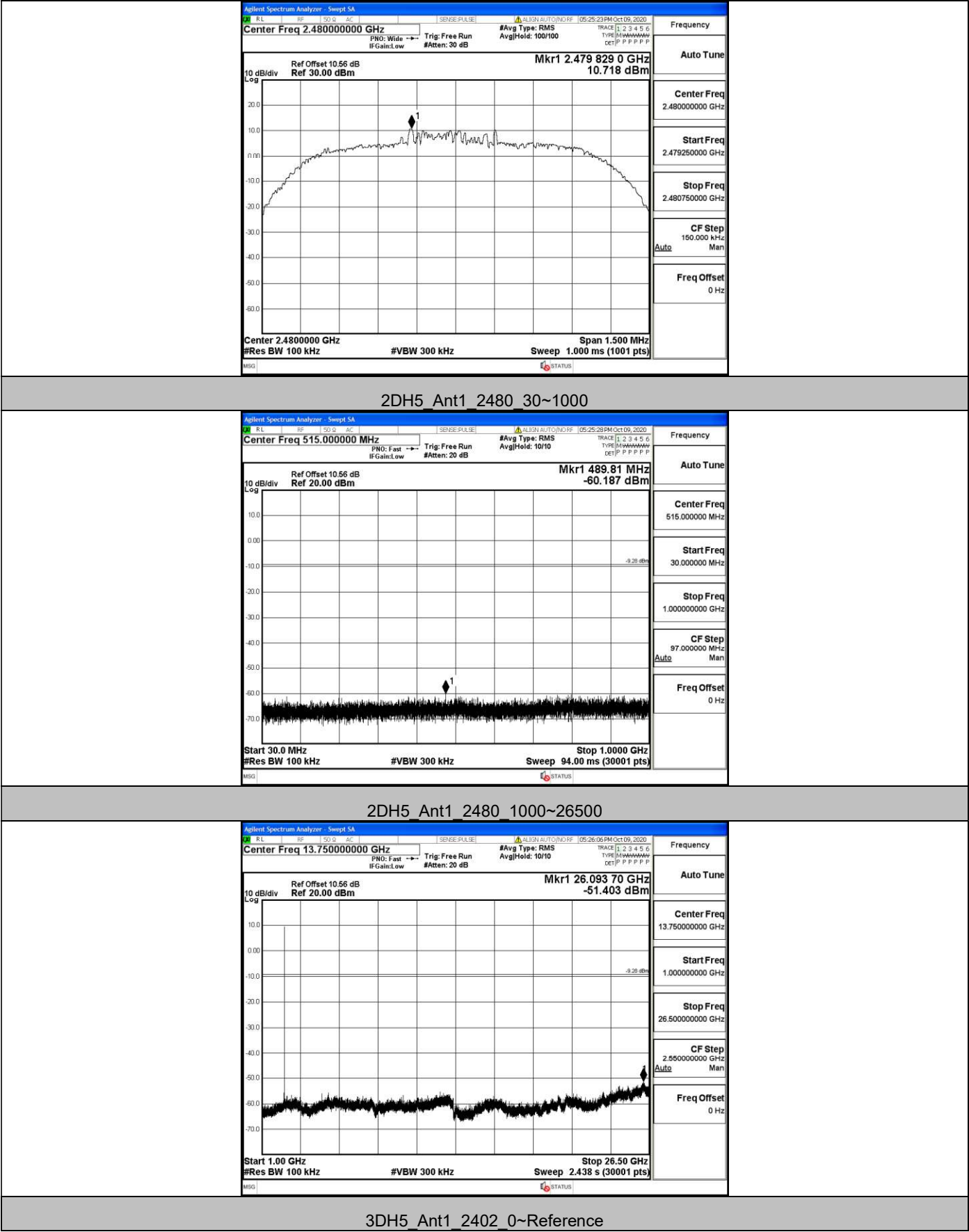


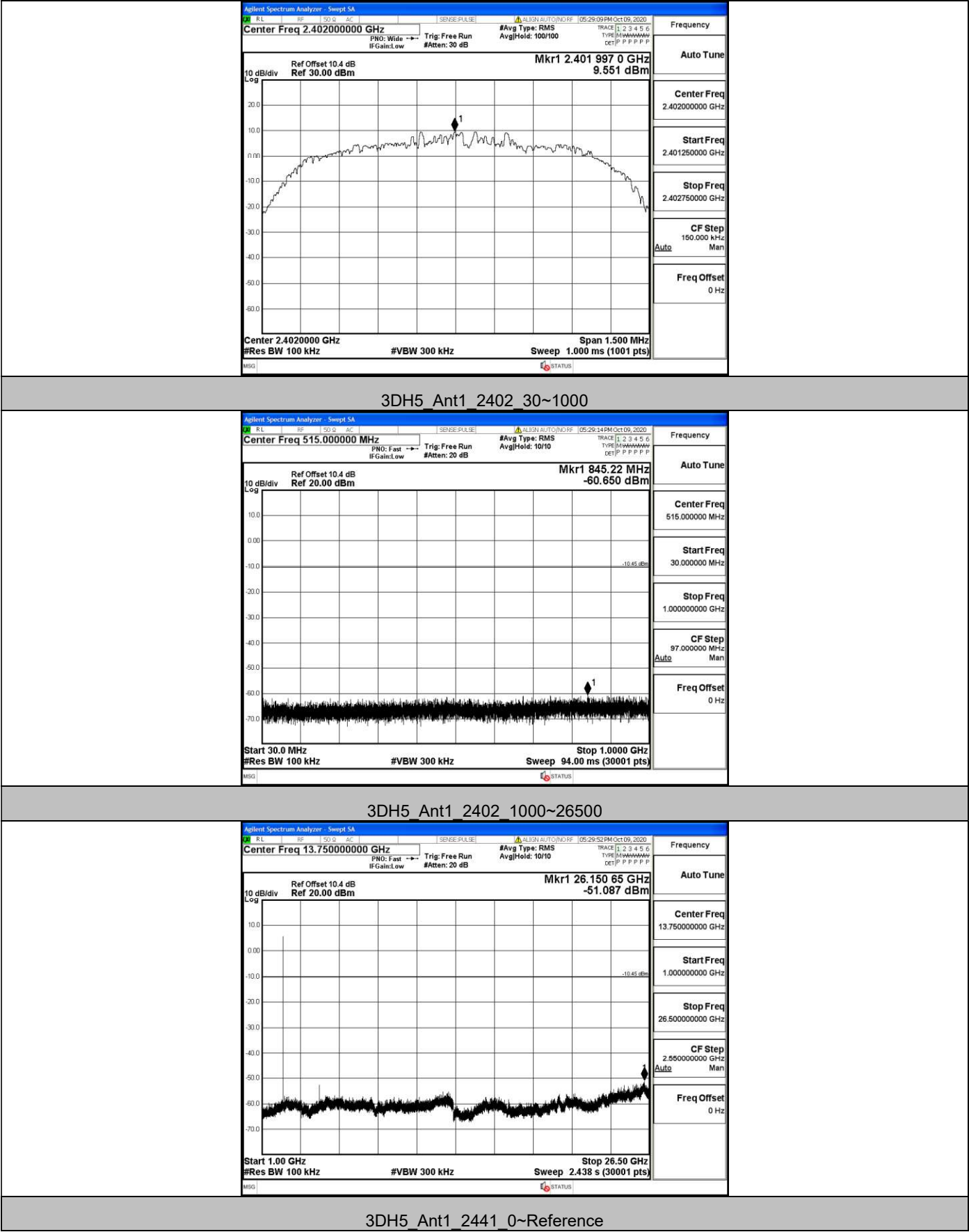


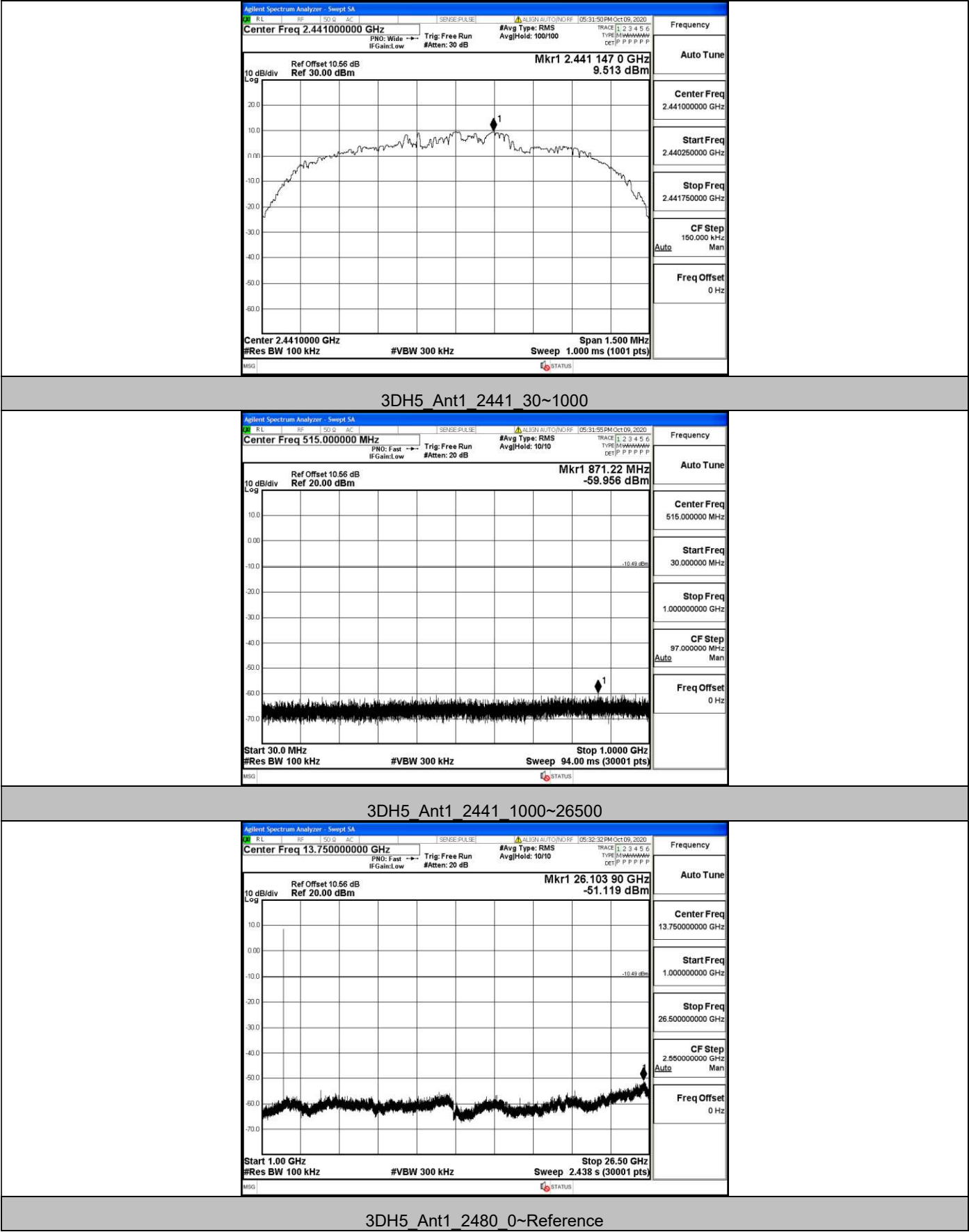


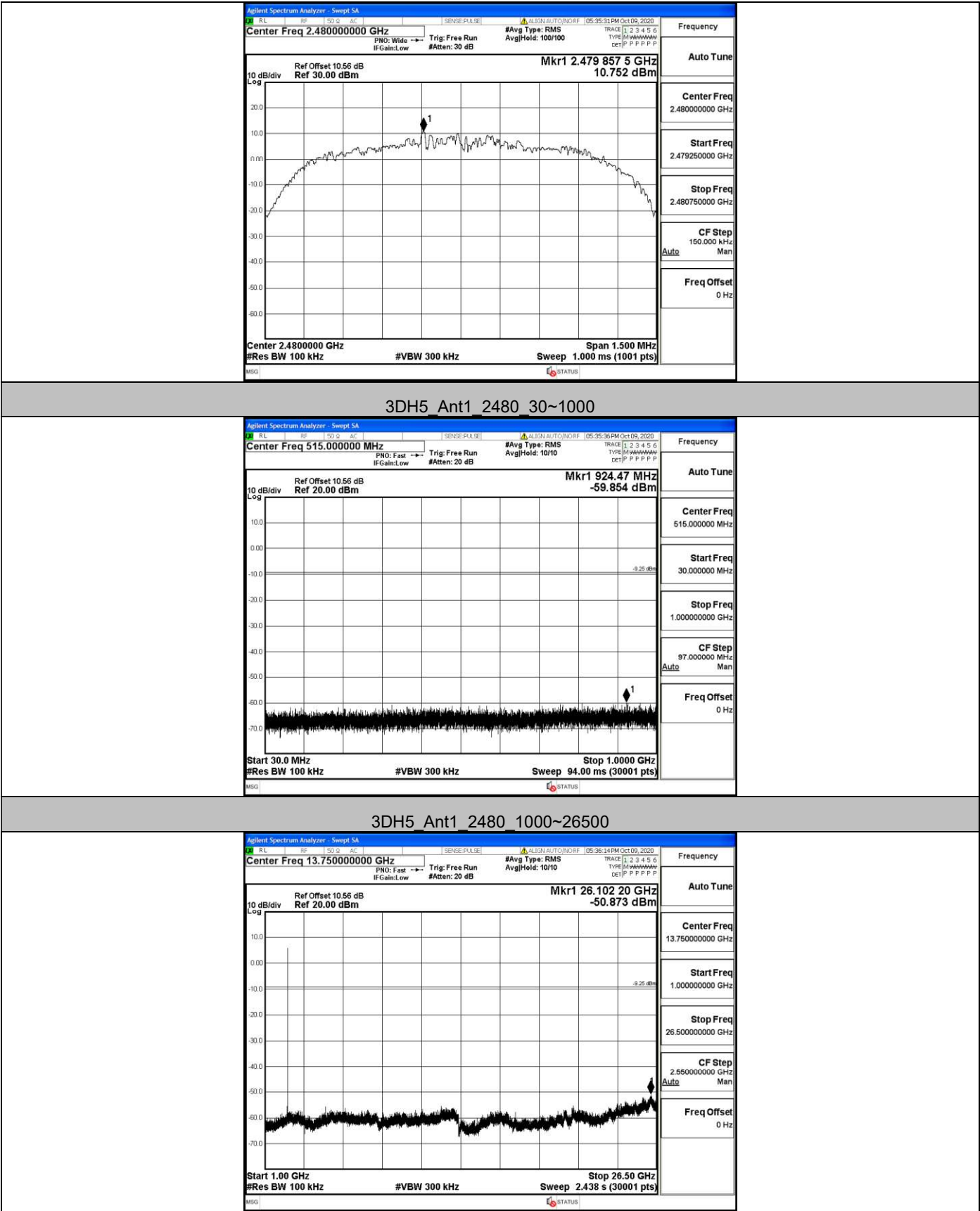










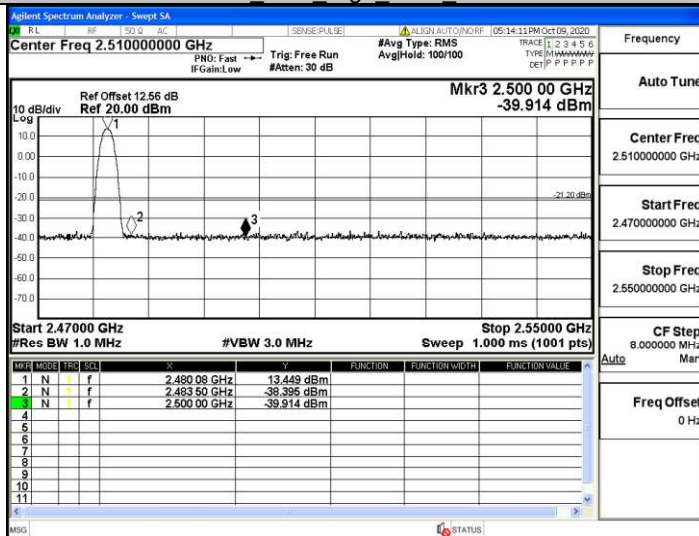


A.8 Restrict-band band-edge measurements

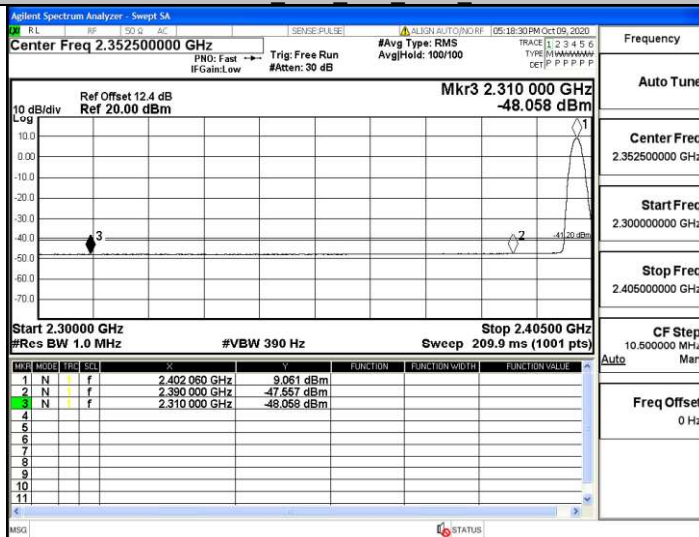
TestMode	Antenna	ChName	Channel	Detector	Freq	Result	Limit	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-48.03	<=-41.20	PASS
				AV	2390.000	-47.52	<=-41.20	PASS
				Peak	2310.000	-41.73	<=-21.20	PASS
				Peak	2390.000	-40.88	<=-21.20	PASS
		High	2480	AV	2483.500	-44.67	<=-41.20	PASS
				AV	2500.000	-46.84	<=-41.20	PASS
				Peak	2483.500	-38.4	<=-21.20	PASS
				Peak	2500.000	-39.91	<=-21.20	PASS
2DH5	Ant1	Low	2402	AV	2310.000	-48.06	<=-41.20	PASS
				AV	2390.000	-47.56	<=-41.20	PASS
				Peak	2310.000	-40.98	<=-21.20	PASS
				Peak	2390.000	-40.21	<=-21.20	PASS
		High	2480	AV	2483.500	-44.64	<=-41.20	PASS
				AV	2500.000	-46.84	<=-41.20	PASS
				Peak	2483.500	-38.04	<=-21.20	PASS
				Peak	2500.000	-39.83	<=-21.20	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-48.03	<=-41.20	PASS
				AV	2390.000	-47.33	<=-41.20	PASS
				Peak	2310.000	-39.23	<=-21.20	PASS
				Peak	2390.000	-41.38	<=-21.20	PASS
		High	2480	AV	2483.500	-44.79	<=-41.20	PASS
				AV	2500.000	-46.96	<=-41.20	PASS
				Peak	2483.500	-39.57	<=-21.20	PASS
				Peak	2500.000	-40.37	<=-21.20	PASS



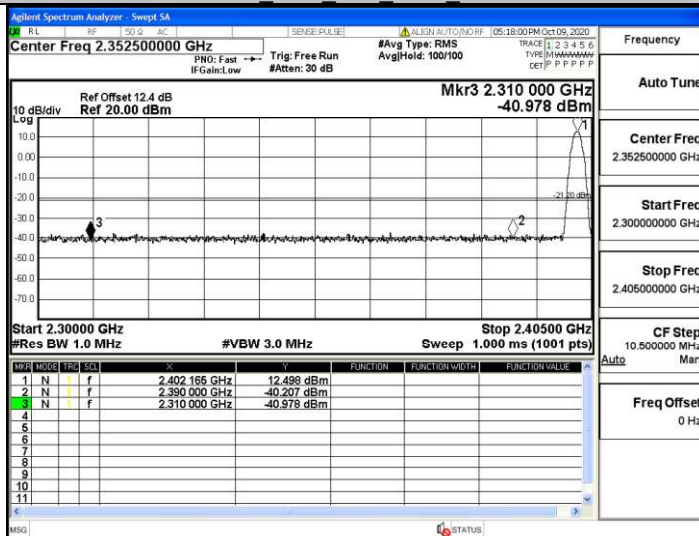
DH5 Ant1 High 2480 Peak



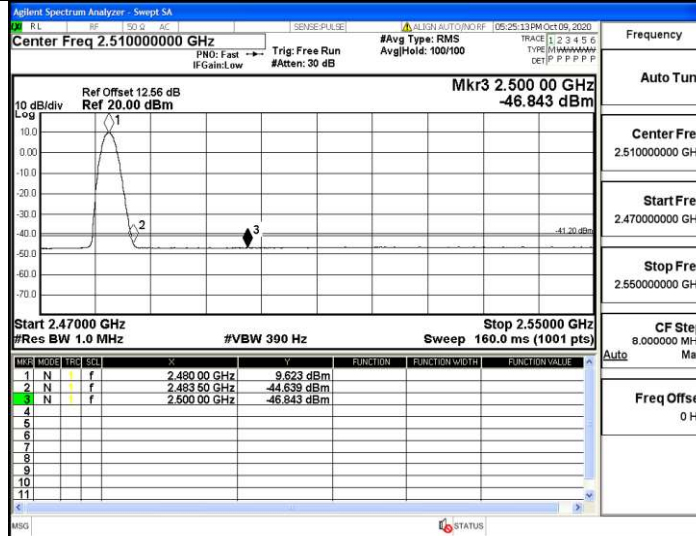
2DH5 Ant1 Low 2402 AV



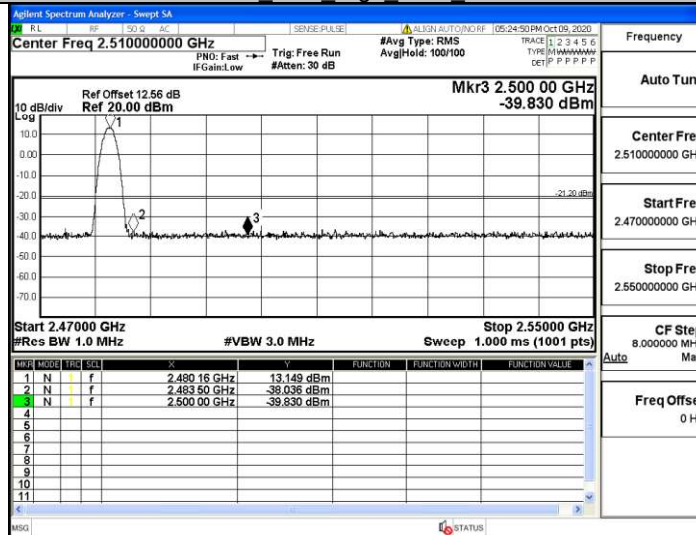
2DH5 Ant1 Low 2402 Peak



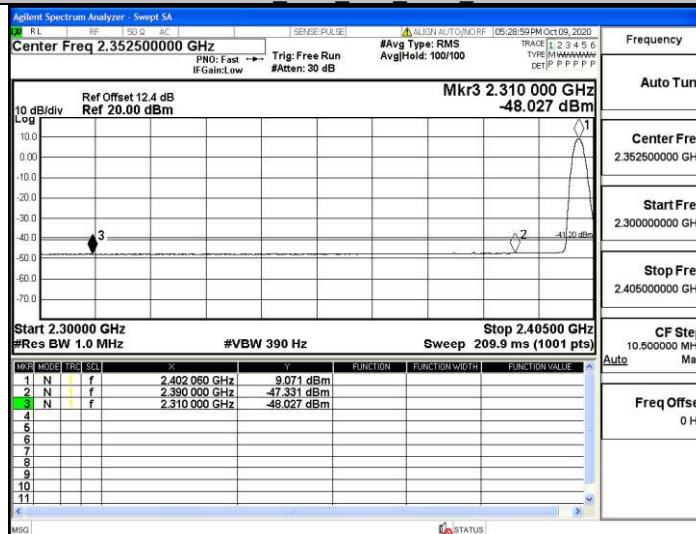
2DH5 Ant1 High 2480 AV



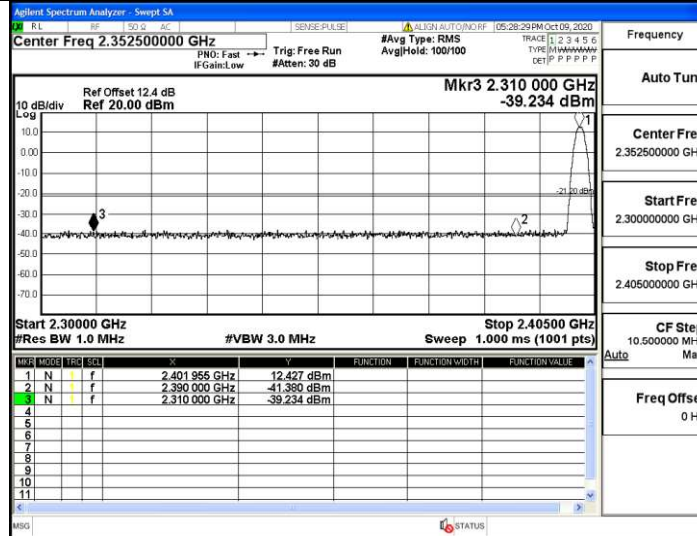
2DH5 Ant1 High 2480 Peak



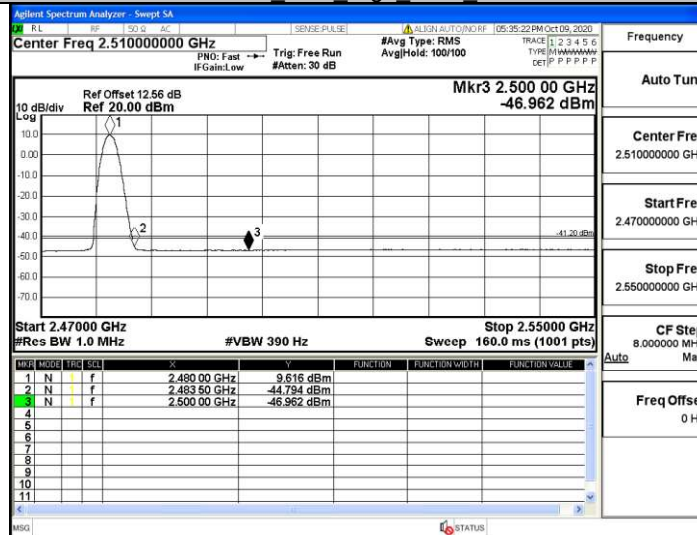
3DH5 Ant1 Low 2402 AV



3DH5 Ant1 Low 2402 Peak



3DH5 Ant1 High 2480 AV



3DH5 Ant1 High 2480 Peak

