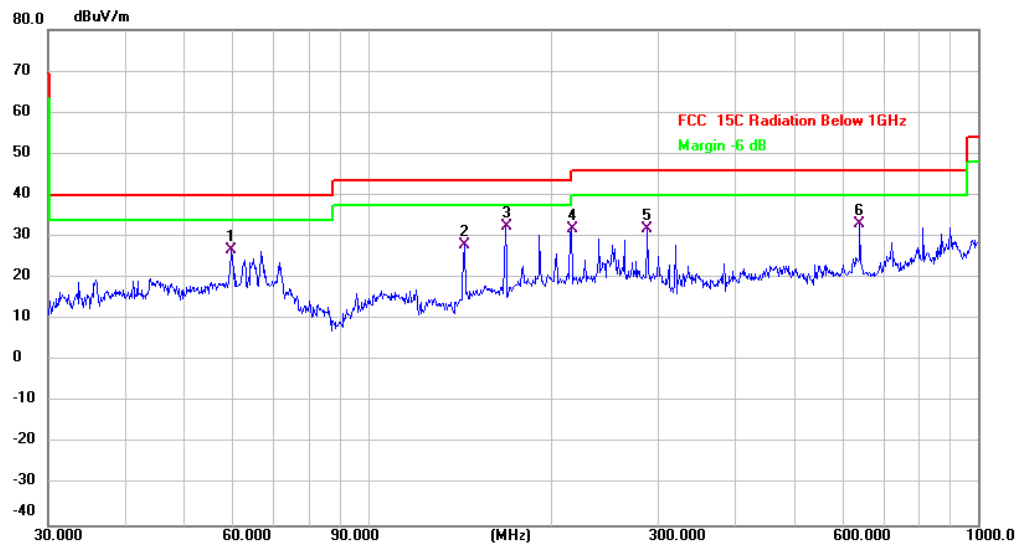


Mode2 / Polarization: Vertical / Band: 2400-2483.5 MHz / CH: H



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		59.8588	36.67	-9.79	26.88	40.00	-13.12	QP	
2		143.8295	38.39	-10.56	27.83	43.50	-15.67	QP	
3	*	167.8243	43.32	-11.01	32.31	43.50	-11.19	QP	
4		216.0240	40.94	-8.98	31.96	46.00	-14.04	QP	
5		287.9904	37.34	-5.60	31.74	46.00	-14.26	QP	
6		640.6110	33.68	-0.53	33.15	46.00	-12.85	QP	

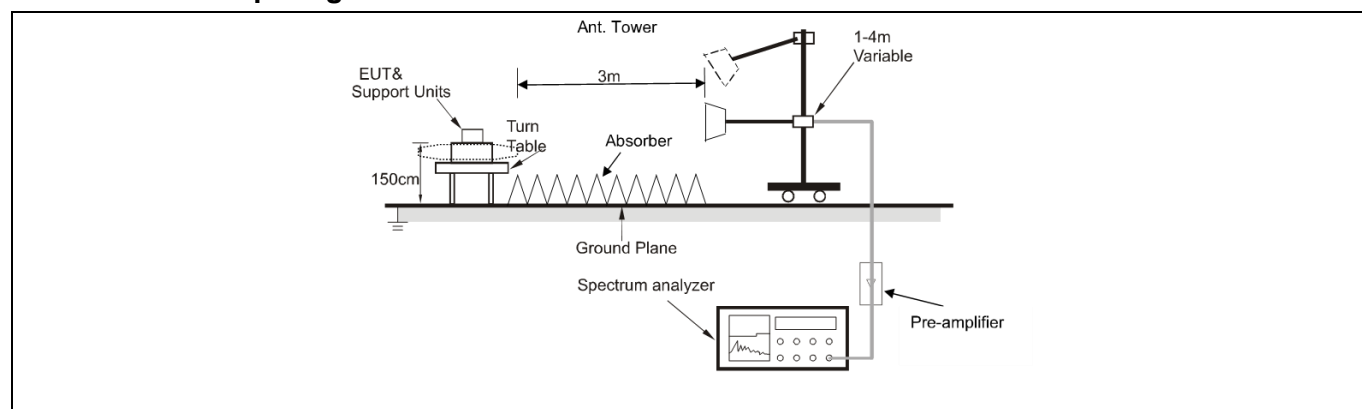
6.10 Radiated emissions (above 1GHz)

Test Requirement:	In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).`		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2013 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02		
Procedure:	ANSI C63.10-2013 section 6.6.4		

6.10.1 E.U.T. Operation:

Operating Environment:						
Temperature:	24 °C		Humidity:	54 %	Atmospheric Pressure:	101 kPa
Pre test mode:		Mode1, Mode2				
Final test mode:		All of the listed pre-test mode were tested, only the data of the worst mode (Mode2) is recorded in the report				
Note: Test frequency are from 1GHz to 25GHz, the amplitude of spurious emissions which are attenuated more than 20 dB below the limits are not reported. All modes of operation of the EUT were investigated, and only the worst-case results are reported.						

6.10.2 Test Setup Diagram:



6.10.3 Test Data:

Mode2 / Polarization: Horizontal / Band: 2400-2483.5 MHz / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4804.000	50.85	-7.40	43.45	74.00	-30.55	peak
2		4804.000	44.55	-7.40	37.15	54.00	-16.85	AVG
3		7206.000	46.81	0.96	47.77	74.00	-26.23	peak
4		7206.000	40.40	0.96	41.36	54.00	-12.64	AVG
5		9608.000	50.12	2.16	52.28	74.00	-21.72	peak
6	*	9608.000	44.05	2.16	46.21	54.00	-7.79	AVG

Mode2 / Polarization: Vertical / Band: 2400-2483.5 MHz / CH: L

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4804.000	51.17	-7.40	43.77	74.00	-30.23	peak
2		4804.000	44.86	-7.40	37.46	54.00	-16.54	AVG
3		7206.000	48.76	0.96	49.72	74.00	-24.28	peak
4		7206.000	42.66	0.96	43.62	54.00	-10.38	AVG
5		9608.000	49.68	2.16	51.84	74.00	-22.16	peak
6	*	9608.000	43.53	2.16	45.69	54.00	-8.31	AVG

Mode2 / Polarization: Horizontal / Band: 2400-2483.5 MHz / CH: M

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4882.000	51.03	-7.44	43.59	74.00	-30.41	peak
2		4882.000	44.70	-7.44	37.26	54.00	-16.74	AVG
3		7323.000	46.75	0.79	47.54	74.00	-26.46	peak
4		7323.000	40.57	0.79	41.36	54.00	-12.64	AVG
5		9764.000	49.30	3.14	52.44	74.00	-21.56	peak
6	*	9764.000	43.40	3.14	46.54	54.00	-7.46	AVG

Mode2 / Polarization: Vertical / Band: 2400-2483.5 MHz / CH: M

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4882.000	50.48	-7.44	43.04	74.00	-30.96	peak
2		4882.000	44.59	-7.44	37.15	54.00	-16.85	AVG
3		7323.000	48.77	0.79	49.56	74.00	-24.44	peak
4		7323.000	42.46	0.79	43.25	54.00	-10.75	AVG
5		9764.000	49.34	3.14	52.48	74.00	-21.52	peak
6	*	9764.000	43.51	3.14	46.65	54.00	-7.35	AVG

Mode2 / Polarization: Horizontal / Band: 2400-2483.5 MHz / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4960.000	51.85	-7.20	44.65	74.00	-29.35	peak
2		4960.000	45.77	-7.20	38.57	54.00	-15.43	AVG
3		7440.000	45.68	0.98	46.66	74.00	-27.34	peak
4		7440.000	39.38	0.98	40.36	54.00	-13.64	AVG
5		9920.000	48.76	3.02	51.78	74.00	-22.22	peak
6	*	9920.000	42.67	3.02	45.69	54.00	-8.31	AVG

Mode2 / Polarization: Vertical / Band: 2400-2483.5 MHz / CH: H

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		4960.000	52.37	-7.20	45.17	74.00	-28.83	peak
2		4960.000	46.32	-7.20	39.12	54.00	-14.88	AVG
3		7440.000	48.15	0.98	49.13	74.00	-24.87	peak
4		7440.000	42.27	0.98	43.25	54.00	-10.75	AVG
5		9920.000	49.84	3.02	52.86	74.00	-21.14	peak
6	*	9920.000	43.83	3.02	46.85	54.00	-7.15	AVG

Photographs of the test setup

Refer to Appendix - Test Setup Photos

Photographs of the EUT

Refer to Appendix - EUT Photos

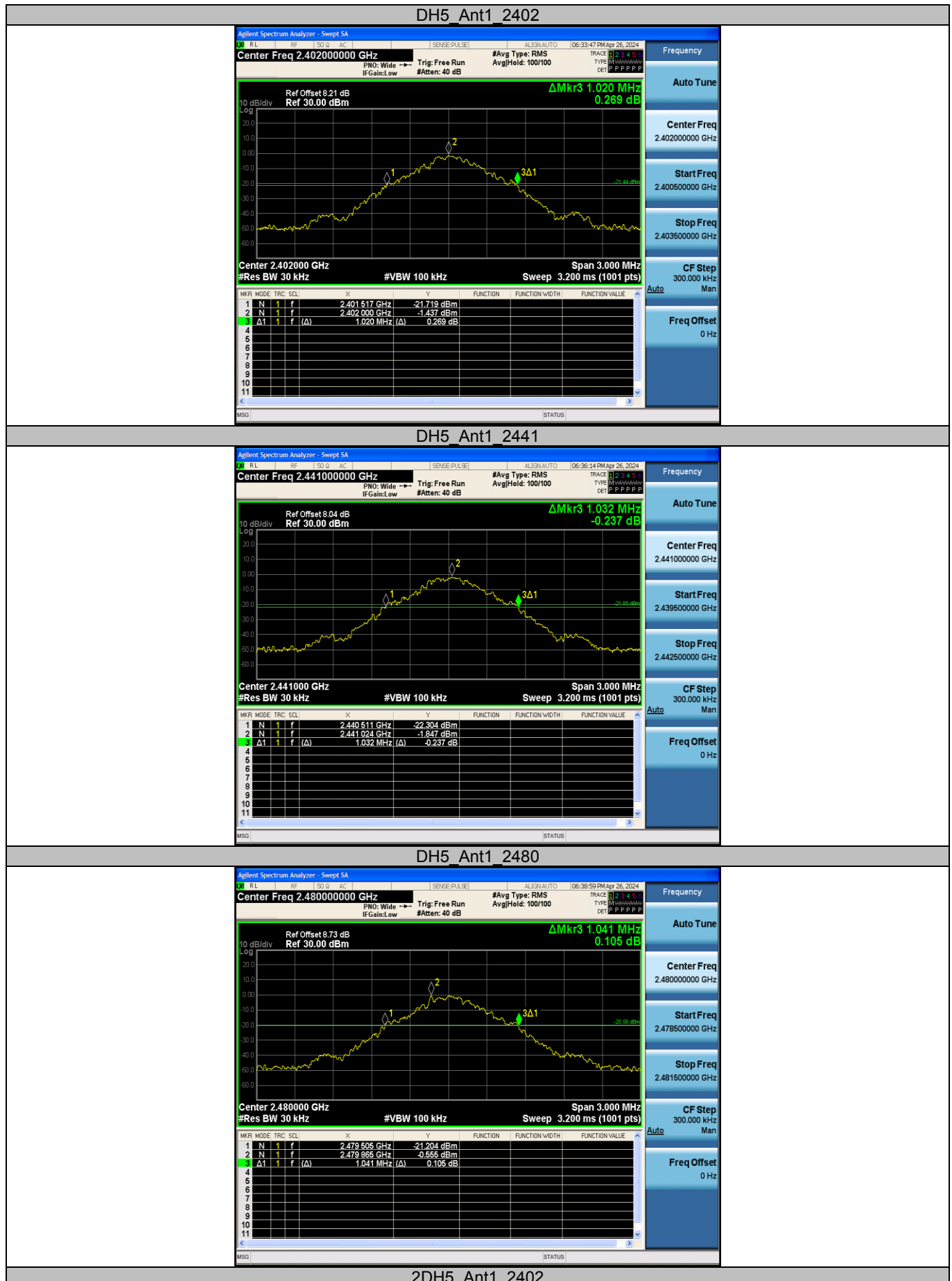
Appendix

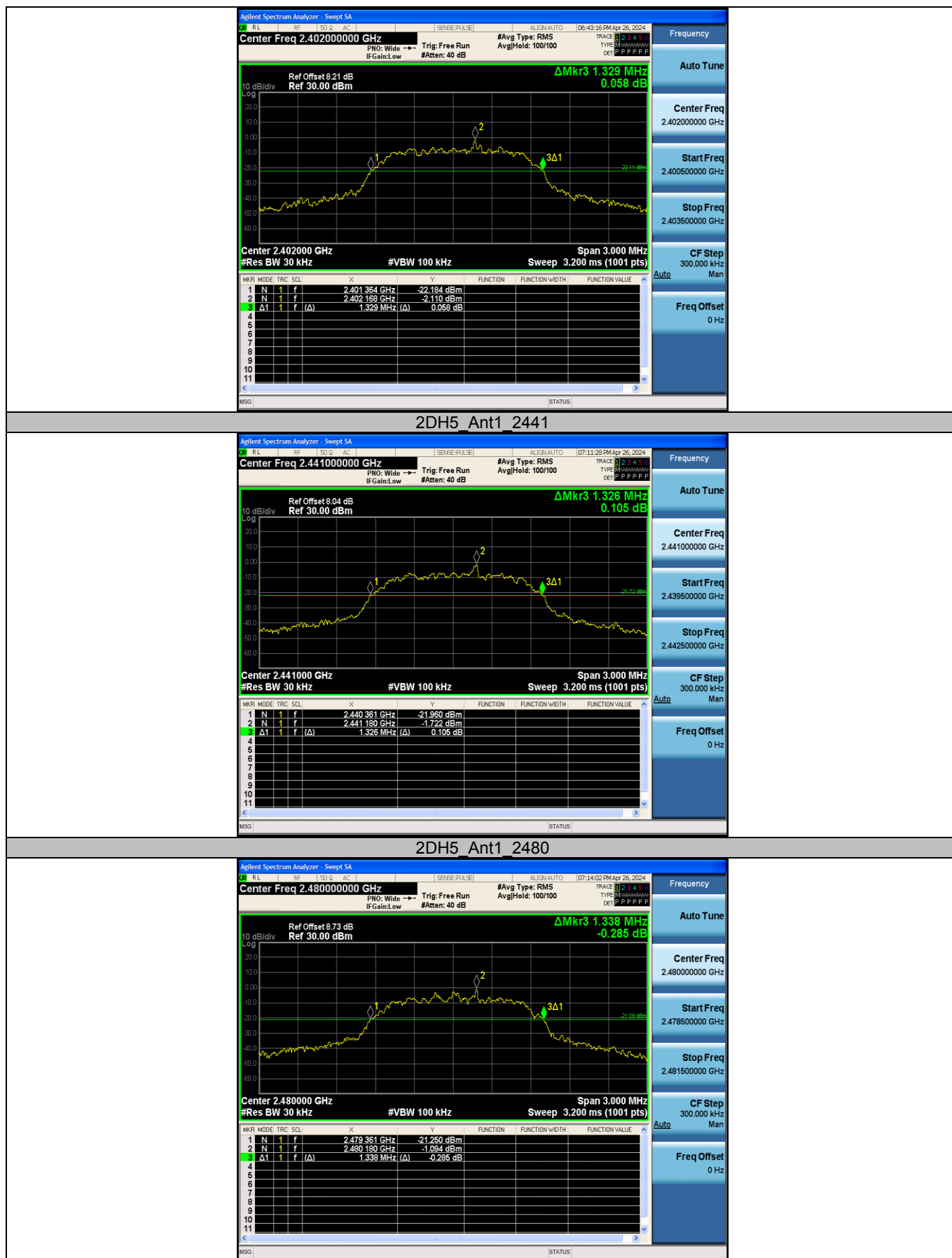
Appendix A: 20dB Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	20db EBW [MHz]
DH5	Ant1	2402	1.020
		2441	1.032
		2480	1.041
2DH5	Ant1	2402	1.329
		2441	1.326
		2480	1.338

Test Graphs



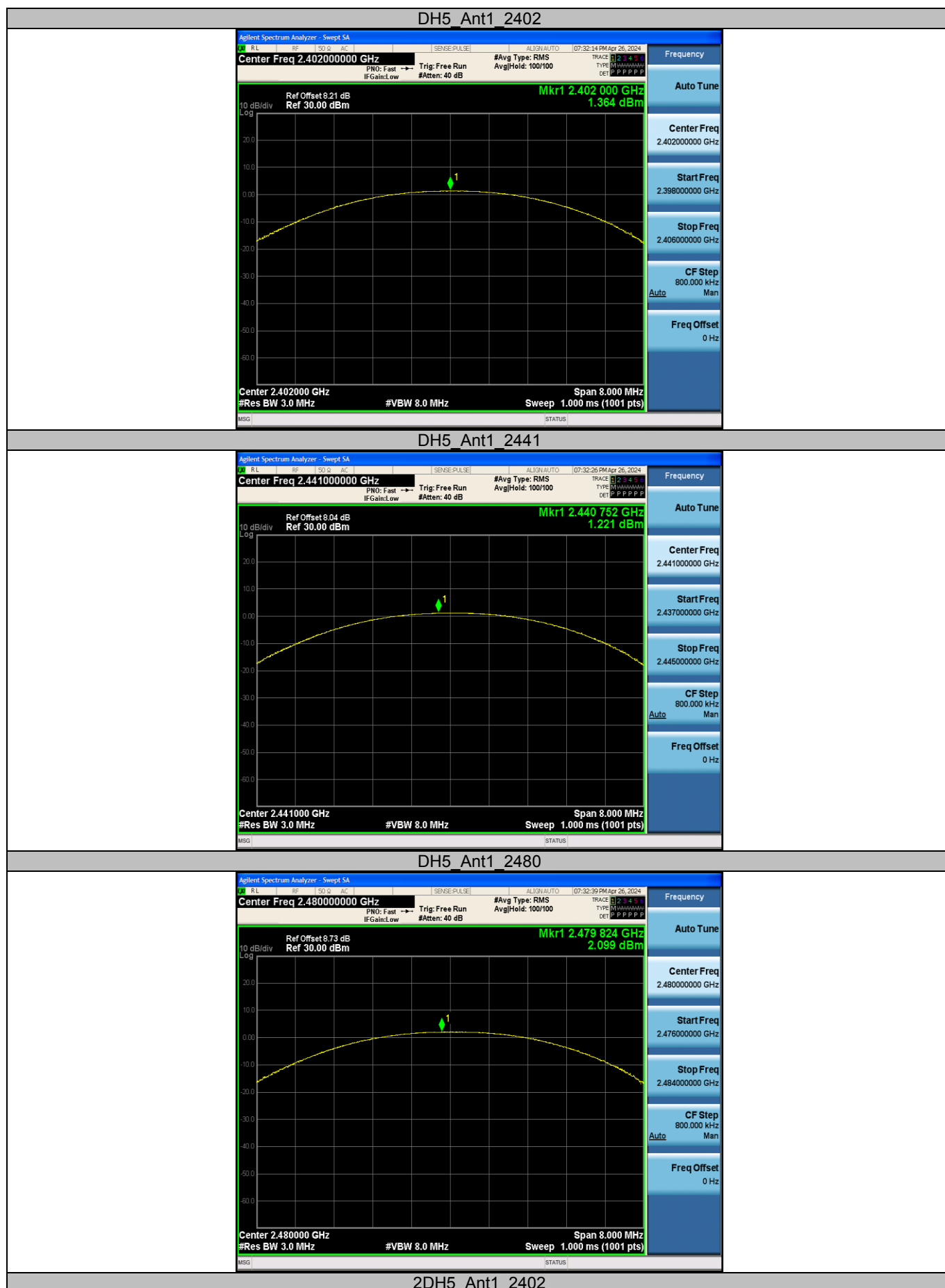


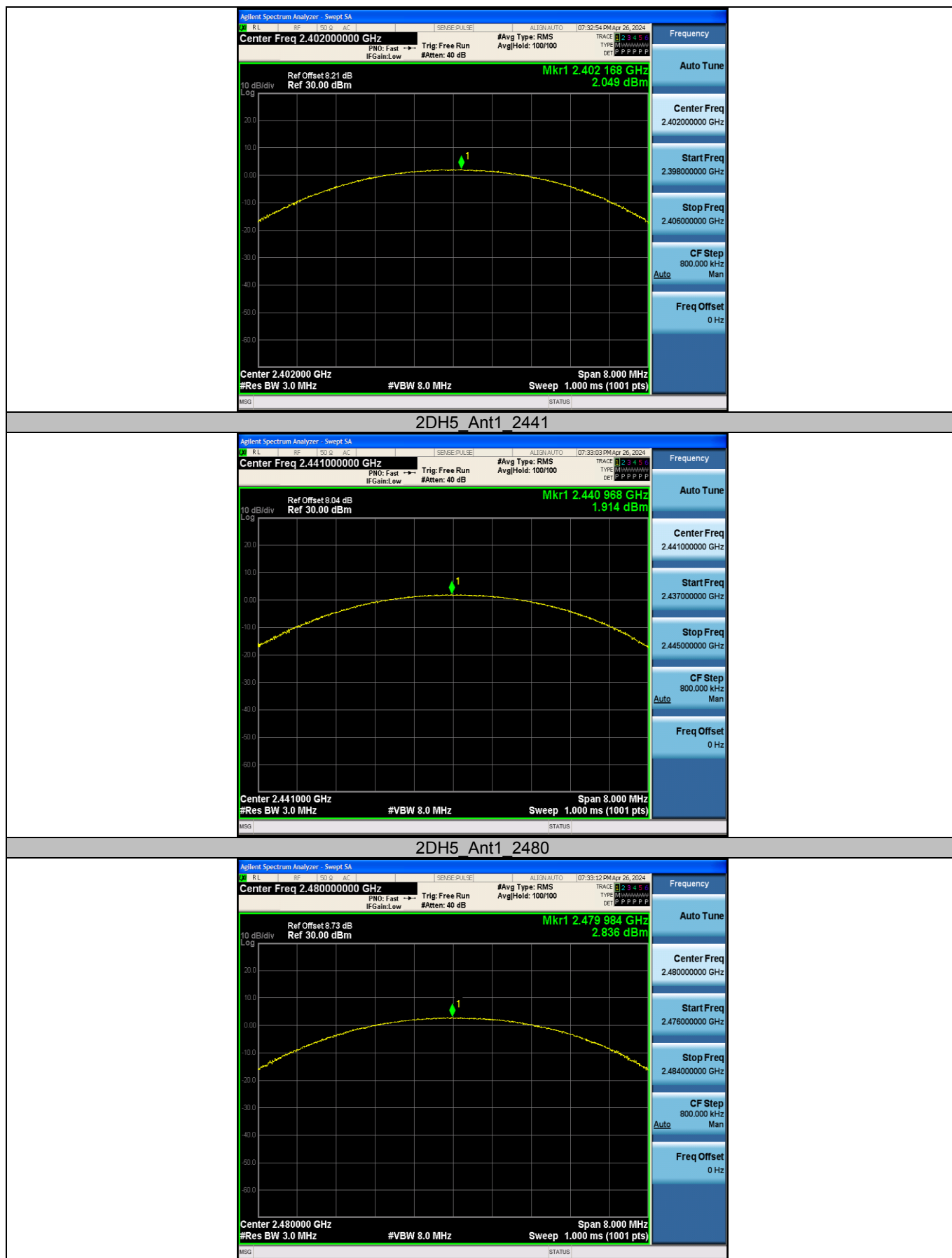
Appendix B: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Conducted Peak Power [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	1.36	≤20.97	PASS
		2441	1.22	≤20.97	PASS
		2480	2.10	≤20.97	PASS
2DH5	Ant1	2402	2.05	≤20.97	PASS
		2441	1.91	≤20.97	PASS
		2480	2.84	≤20.97	PASS

Test Graphs





Appendix C: Carrier frequency separation

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.974	≥ 0.694	PASS
2DH5	Ant1	Hop	0.998	≥ 0.892	PASS

Test Graphs



Appendix D: Time of occupancy

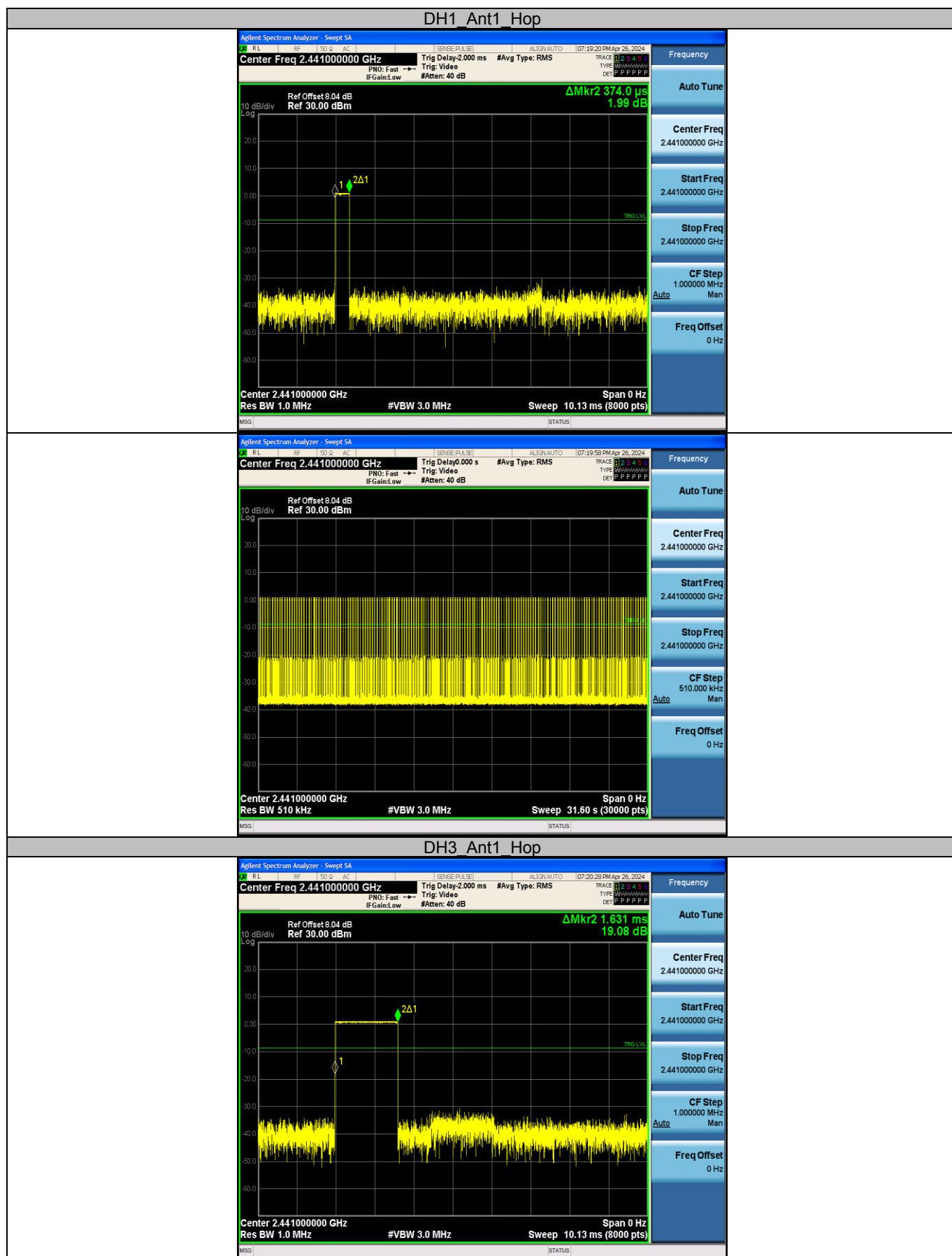
Test Result

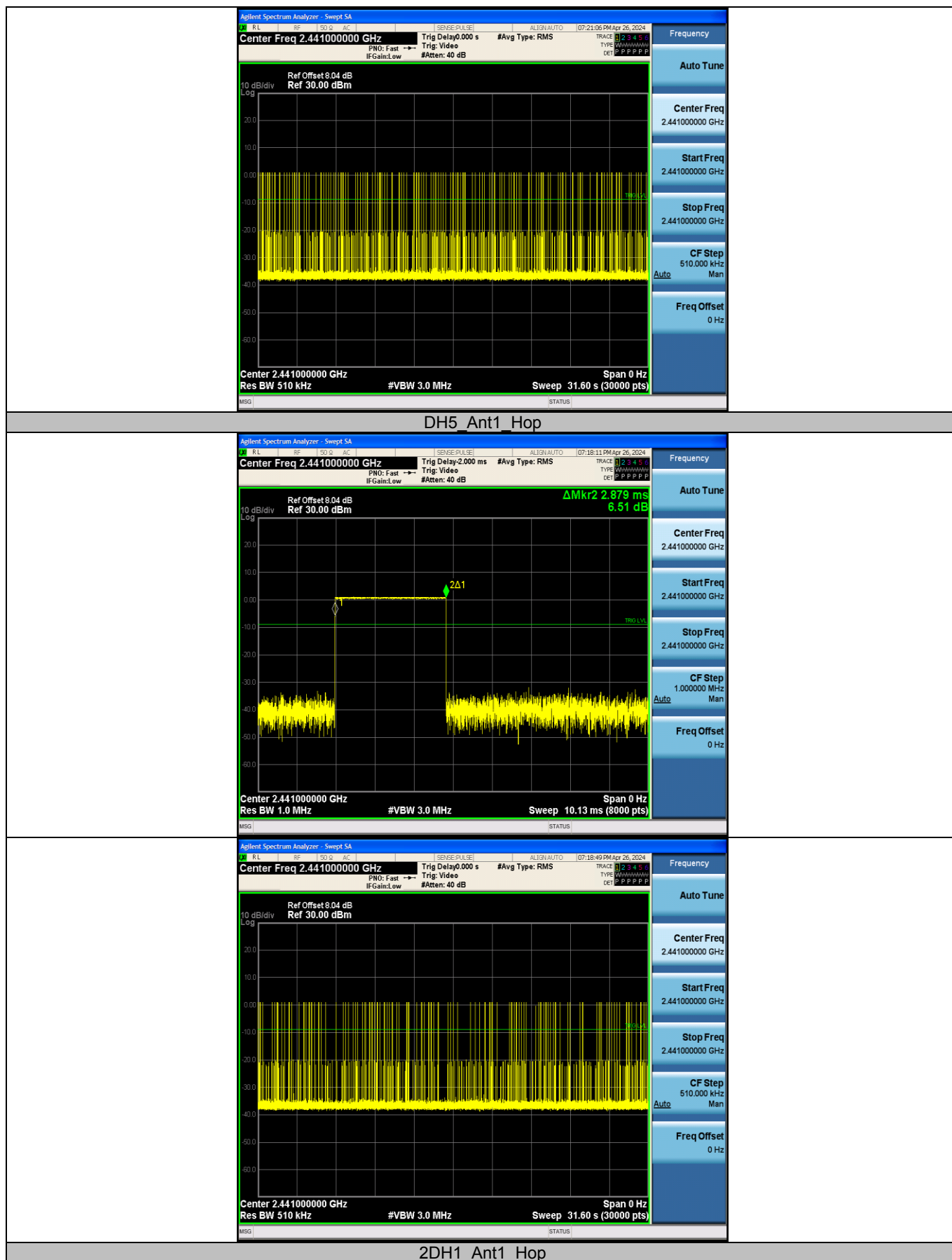
Test Mode	Antenna	Frequency [MHz]	BurstWidth [ms]	Hops in 31.6s [Num]	Result [s]	Limit [s]	Verdict
DH1	Ant1	Hop	0.374	318	0.119	≤0.4	PASS
DH3	Ant1	Hop	1.631	160	0.261	≤0.4	PASS
DH5	Ant1	Hop	2.879	127	0.366	≤0.4	PASS
2DH1	Ant1	Hop	0.385	317	0.122	≤0.4	PASS
2DH3	Ant1	Hop	1.637	153	0.25	≤0.4	PASS
2DH5	Ant1	Hop	2.884	107	0.309	≤0.4	PASS

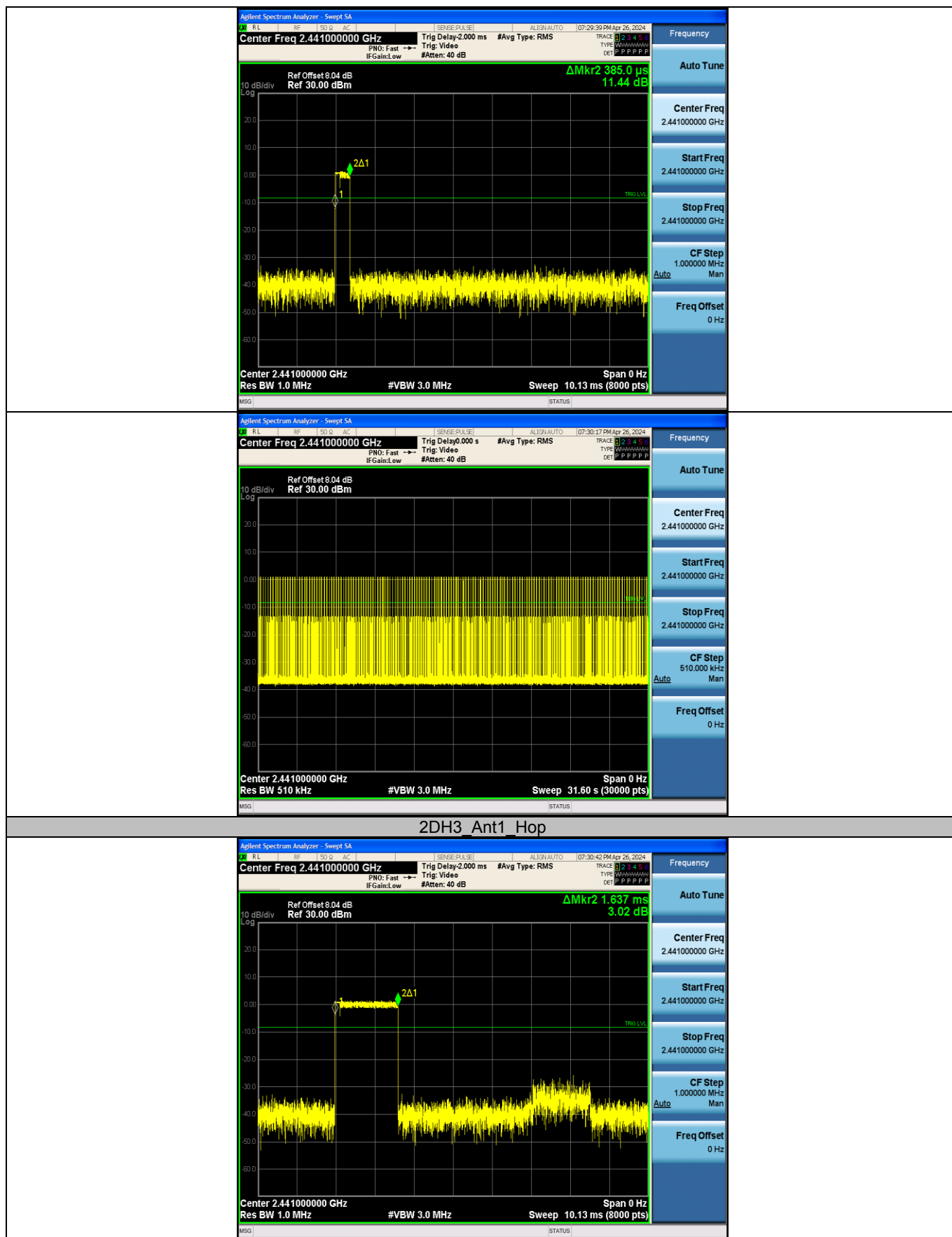
Notes:

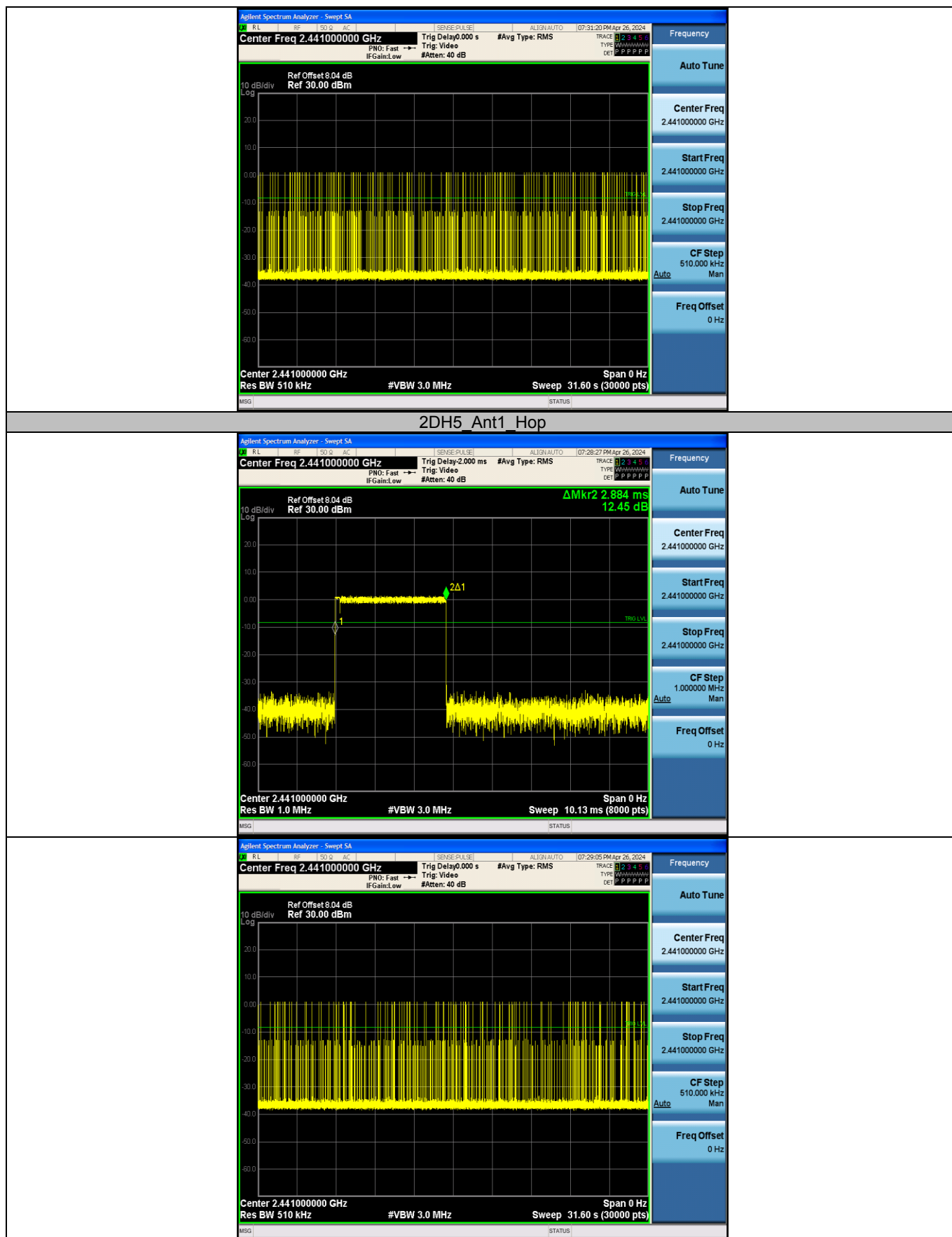
1. Period time = 0.4s * 79 = 31.6s
2. Result (Time of occupancy) = BurstWidth[ms] * Hops in 31.6s [Num]

Test Graphs







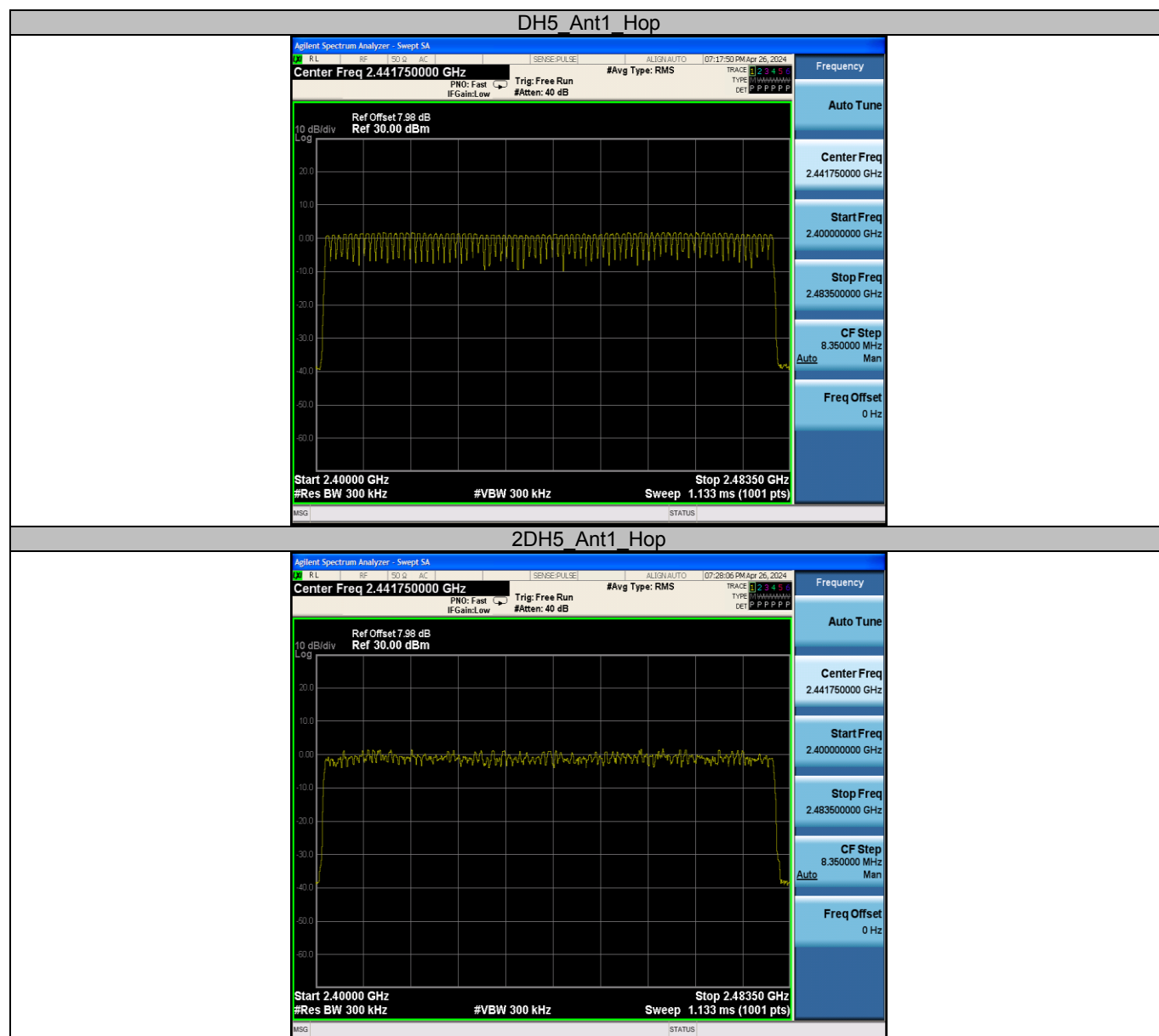


Appendix E: Number of hopping channels

Test Result

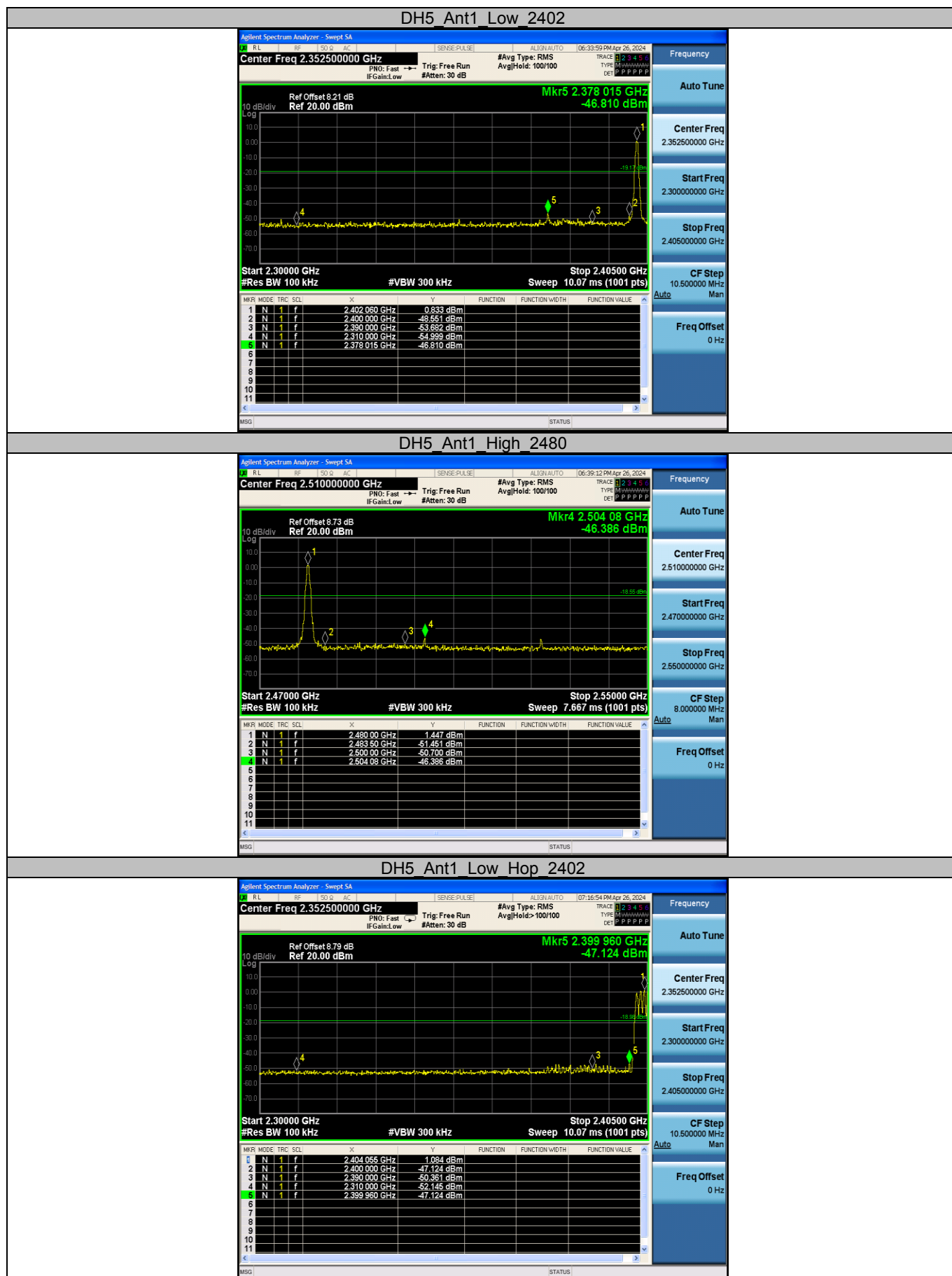
Test Mode	Antenna	Frequency [MHz]	Result [Num]	Limit [Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS

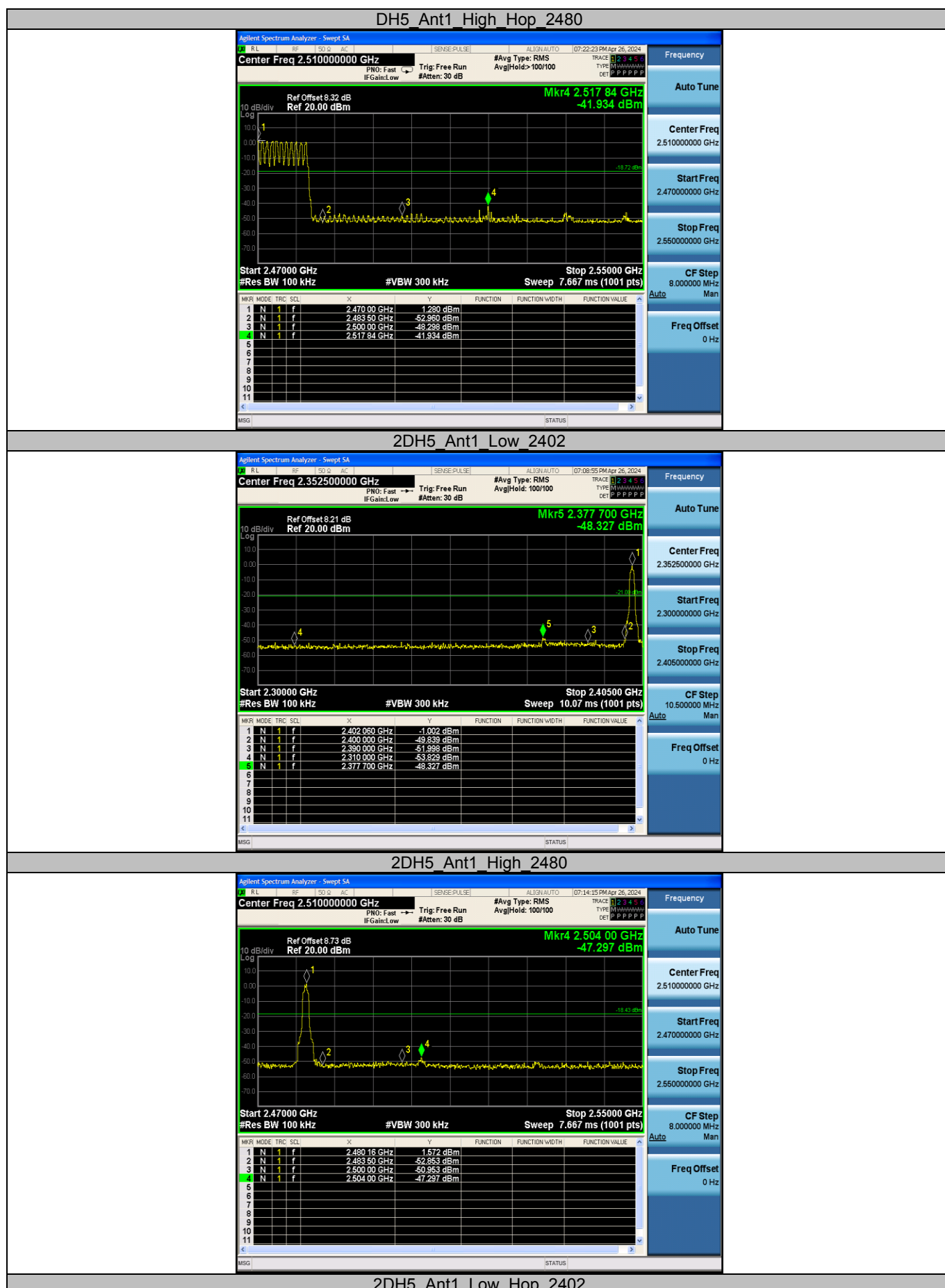
Test Graphs

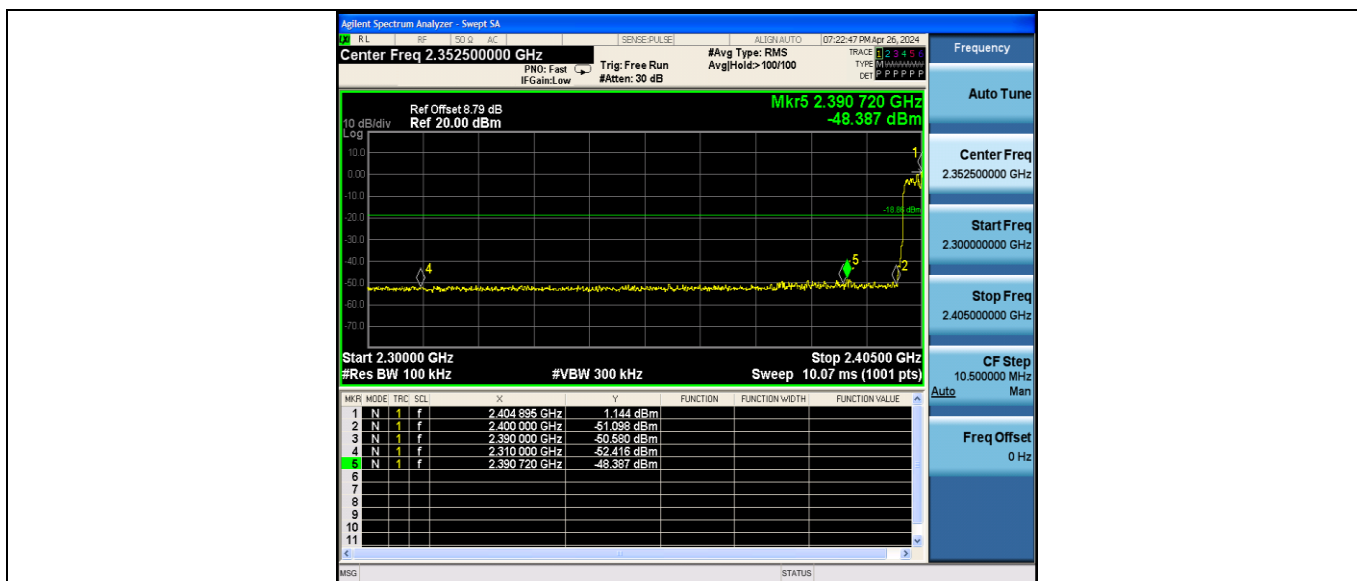


Appendix F: Band edge measurements

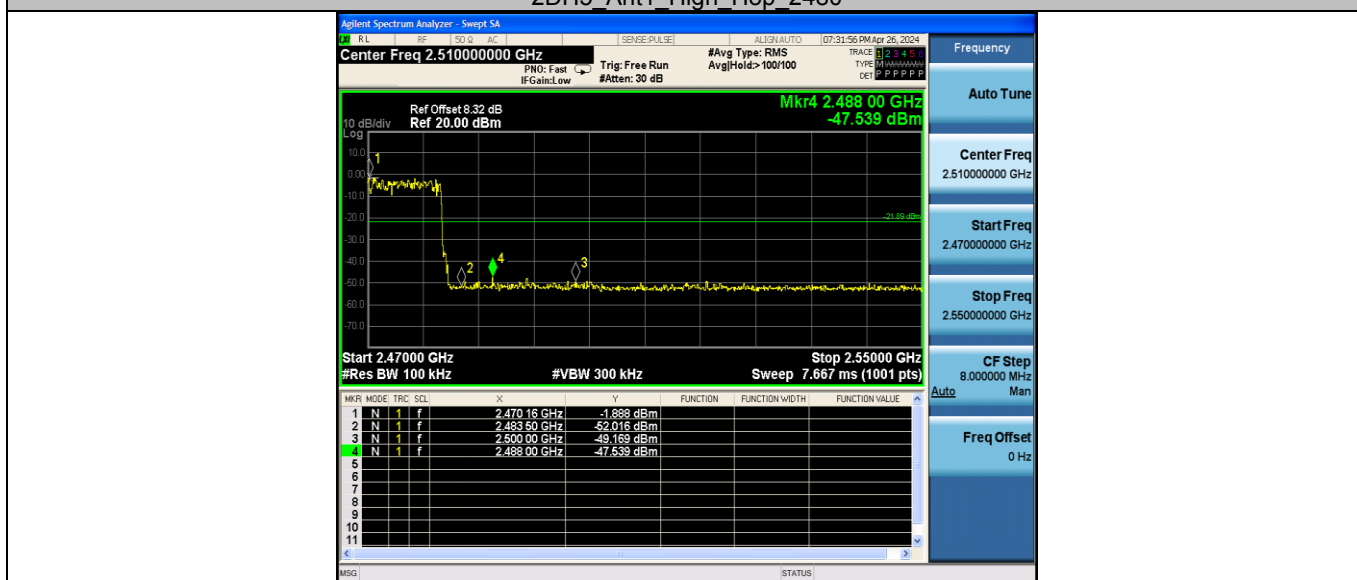
Test Graphs







2DH5 Ant1 High Hop 2480



Appendix G: Conducted Spurious Emission

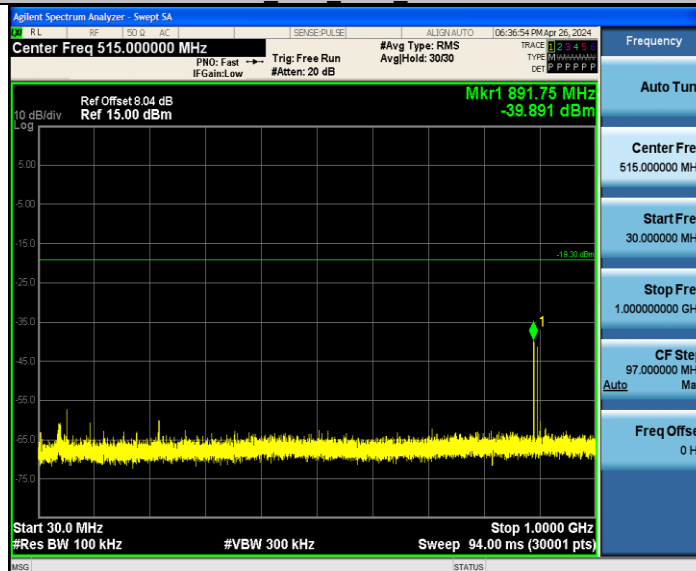
Test Graphs



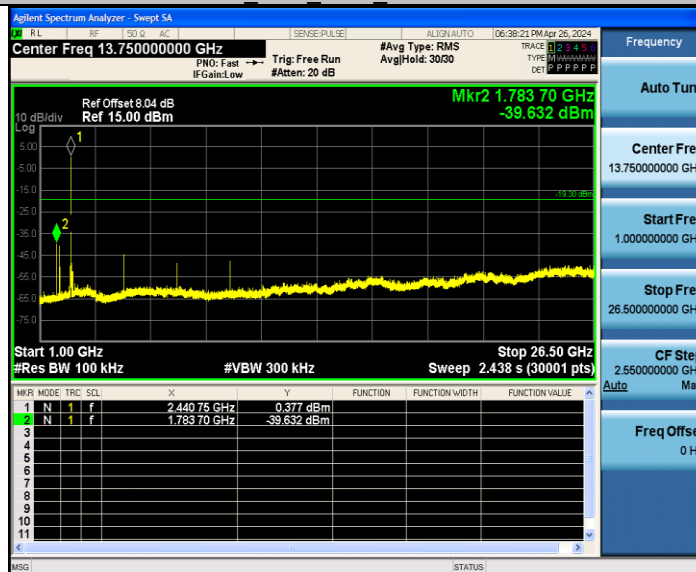
DH5_Ant1_2441_0~Reference



DH5_Ant1_2441_30~1000



DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference

