

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: H2O TRI ULTRA

Test Model: H2O TRI ULTRA BLUE

Environmental Conditions

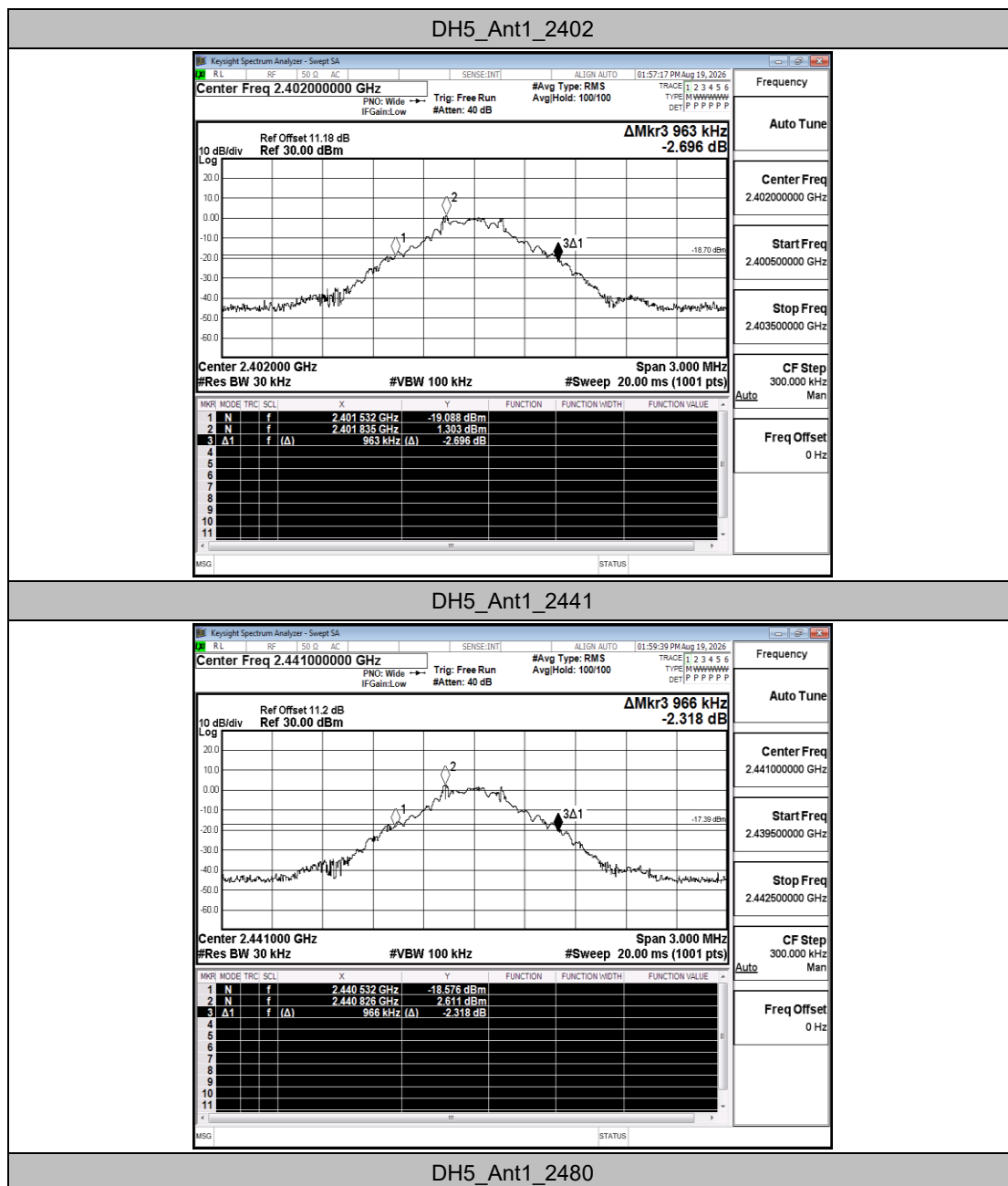
Temperature:	24.8°C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhao xing hai
Supervised by:	Fengliu Tang

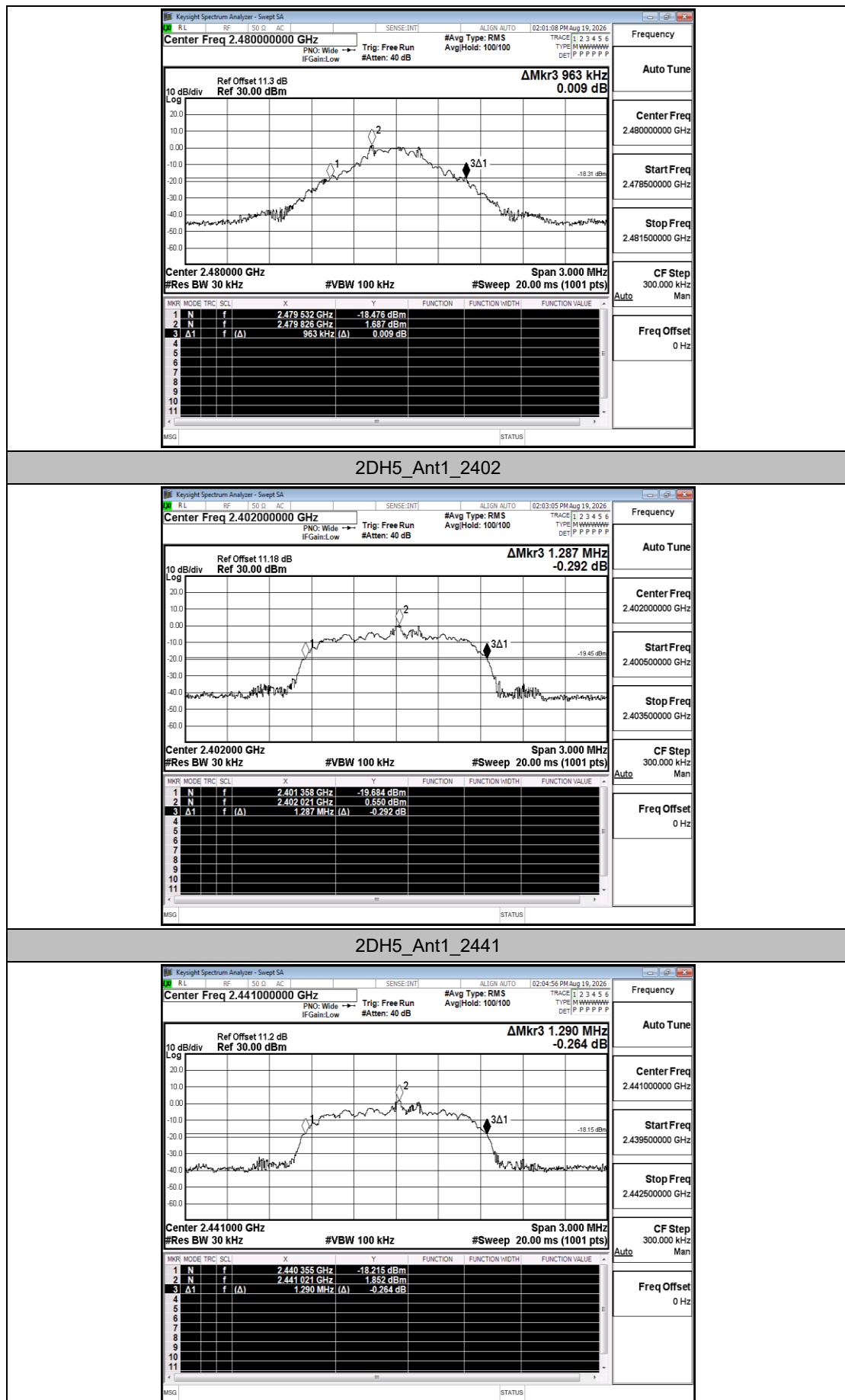
A.1 20dB Emission Bandwidth

Test Result

TestMode	Antenna	Freq (MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.963	2401.532	2402.495	No Limit	PASS
		2441	0.966	2440.532	2441.498	No Limit	PASS
		2480	0.963	2479.532	2480.495	No Limit	PASS
2DH5	Ant1	2402	1.287	2401.358	2402.645	No Limit	PASS
		2441	1.290	2440.355	2441.645	No Limit	PASS
		2480	1.287	2479.358	2480.645	No Limit	PASS
3DH5	Ant1	2402	1.296	2401.343	2402.639	No Limit	PASS
		2441	1.296	2440.346	2441.642	No Limit	PASS
		2480	1.299	2479.343	2480.642	No Limit	PASS

Test Graphs



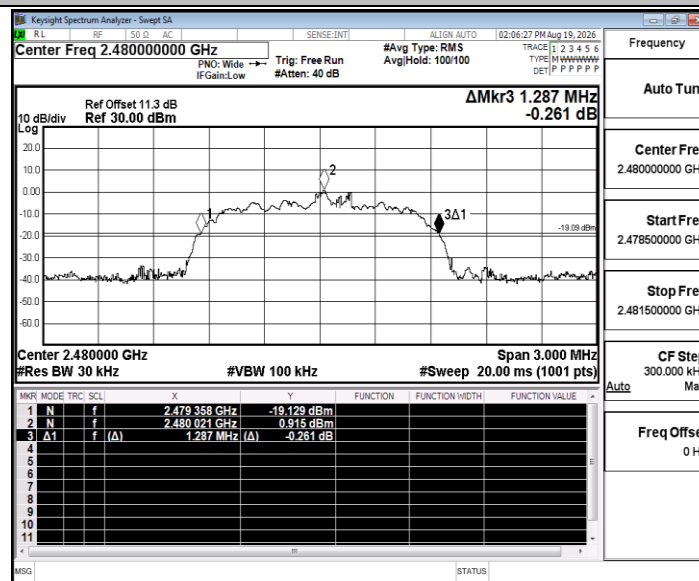


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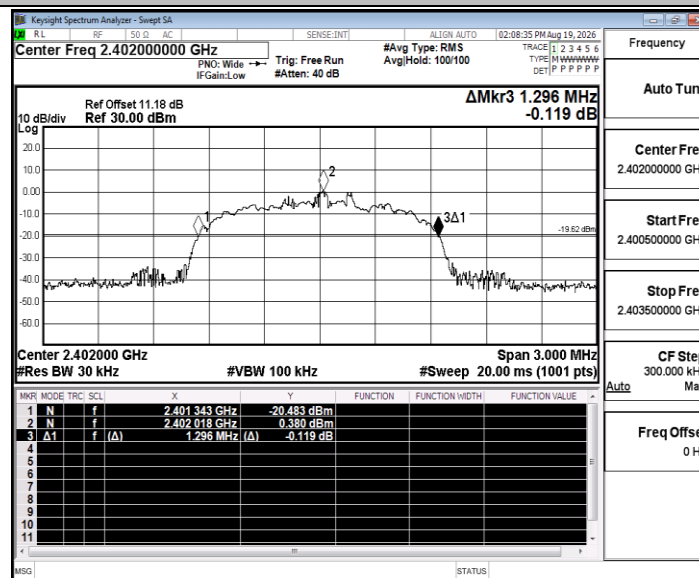
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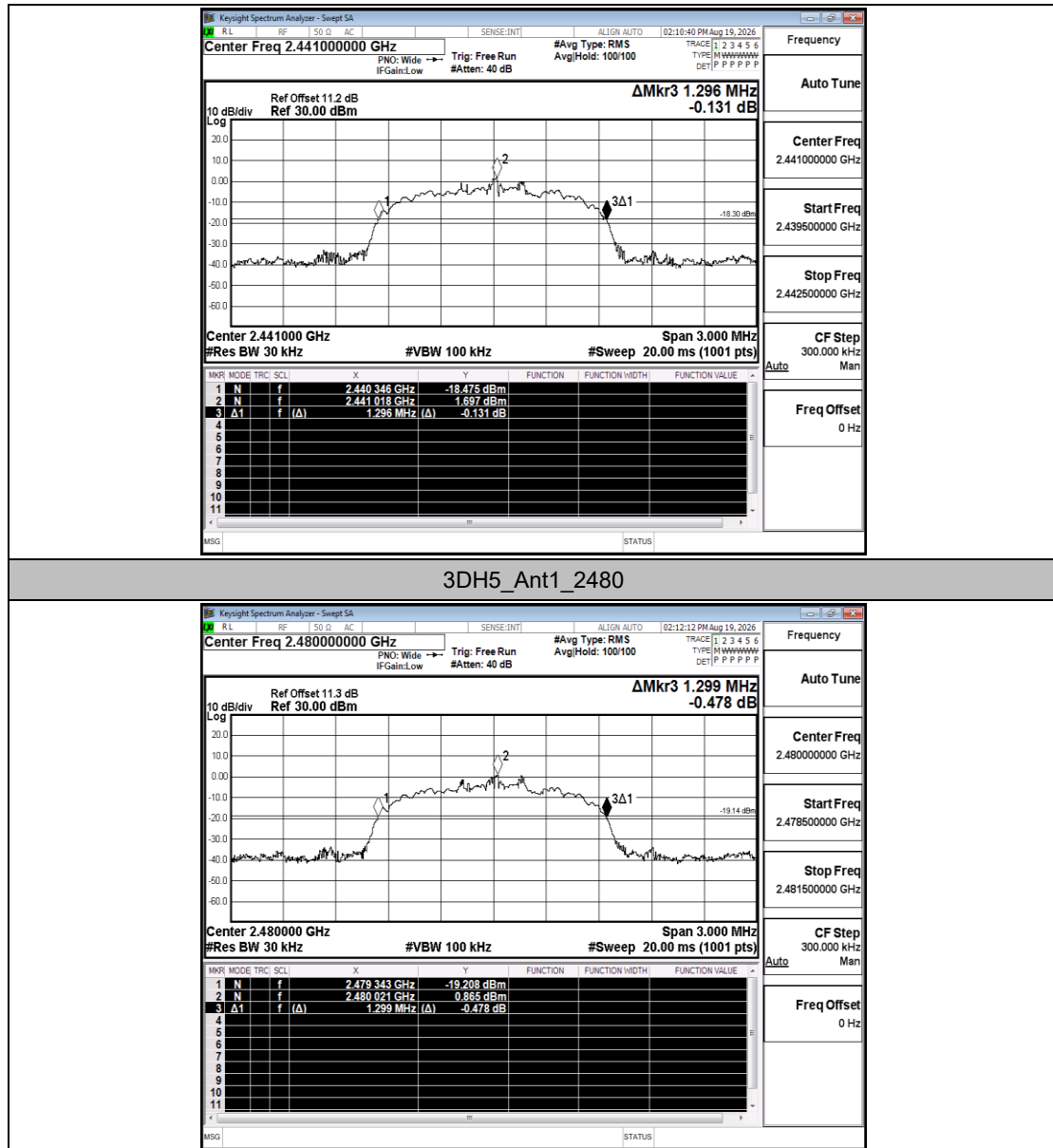
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441

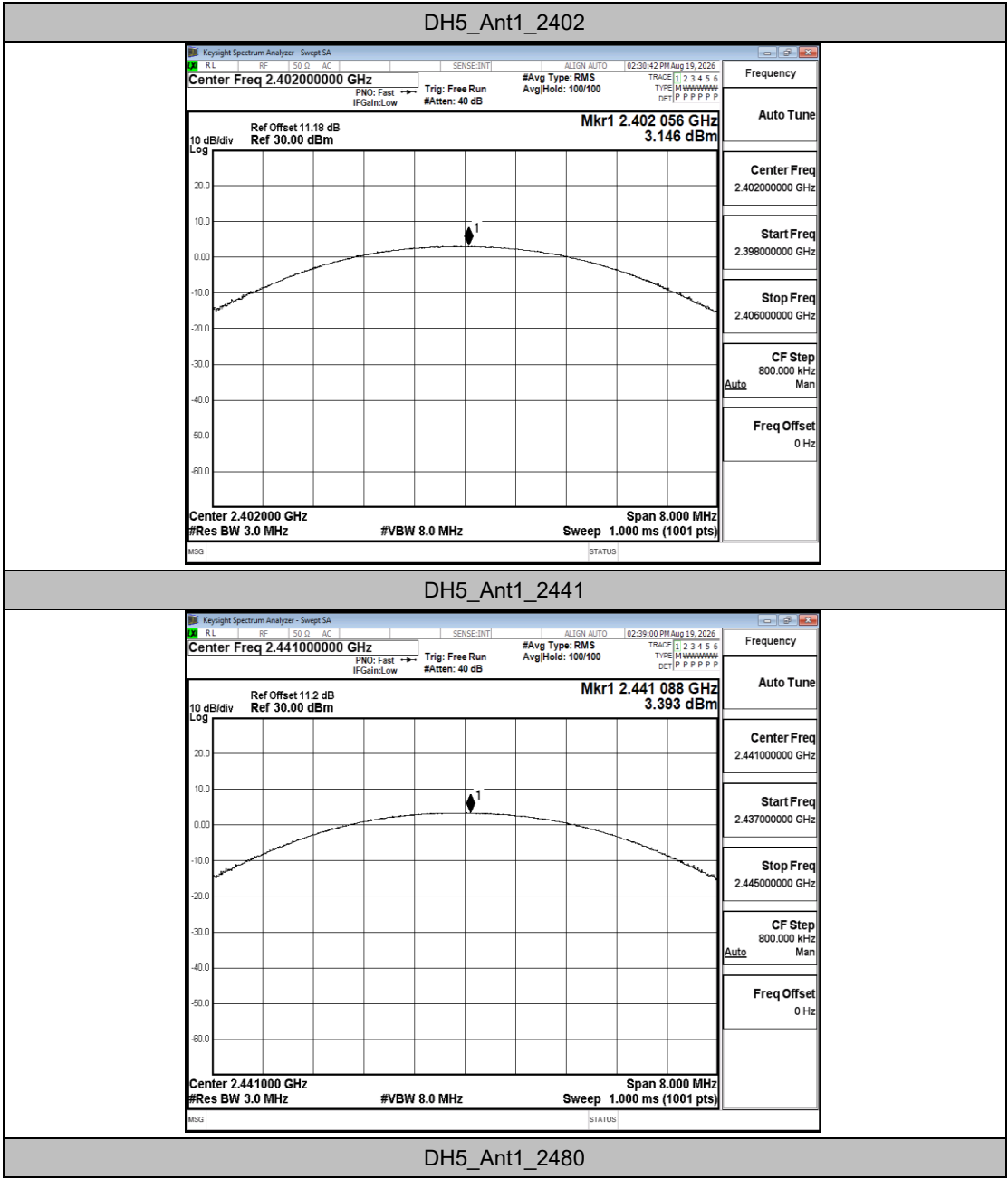


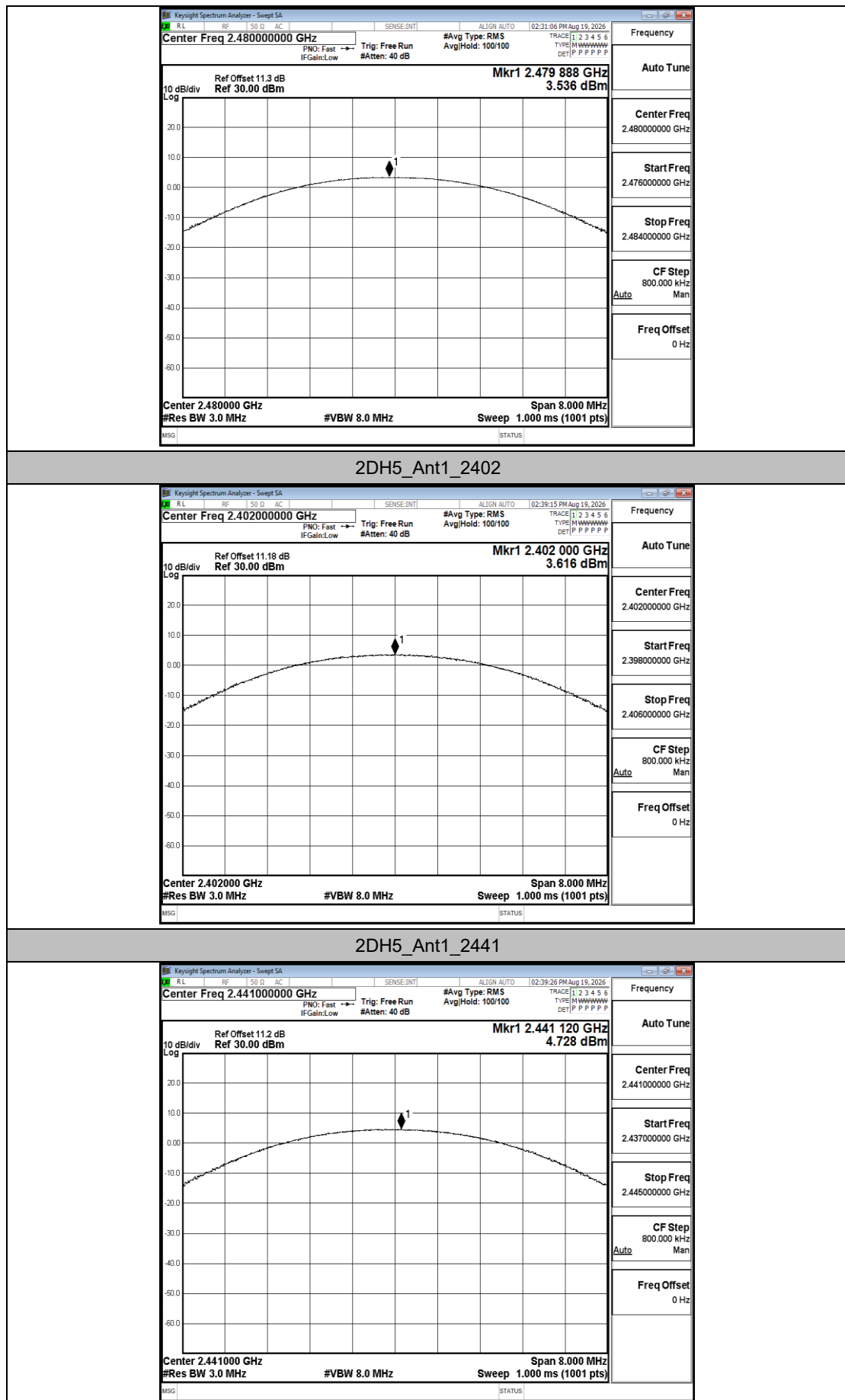
A.2 Maximum Peak conducted output power

Test Result Peak

TestMode	Antenna	Freq (MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	3.15	≤20.97	PASS
		2441	3.39	≤20.97	PASS
		2480	3.54	≤20.97	PASS
2DH5	Ant1	2402	3.62	≤30	PASS
		2441	4.73	≤30	PASS
		2480	2.75	≤30	PASS
3DH5	Ant1	2402	3.66	≤20.97	PASS
		2441	4.87	≤20.97	PASS
		2480	3.74	≤20.97	PASS

Test Graphs

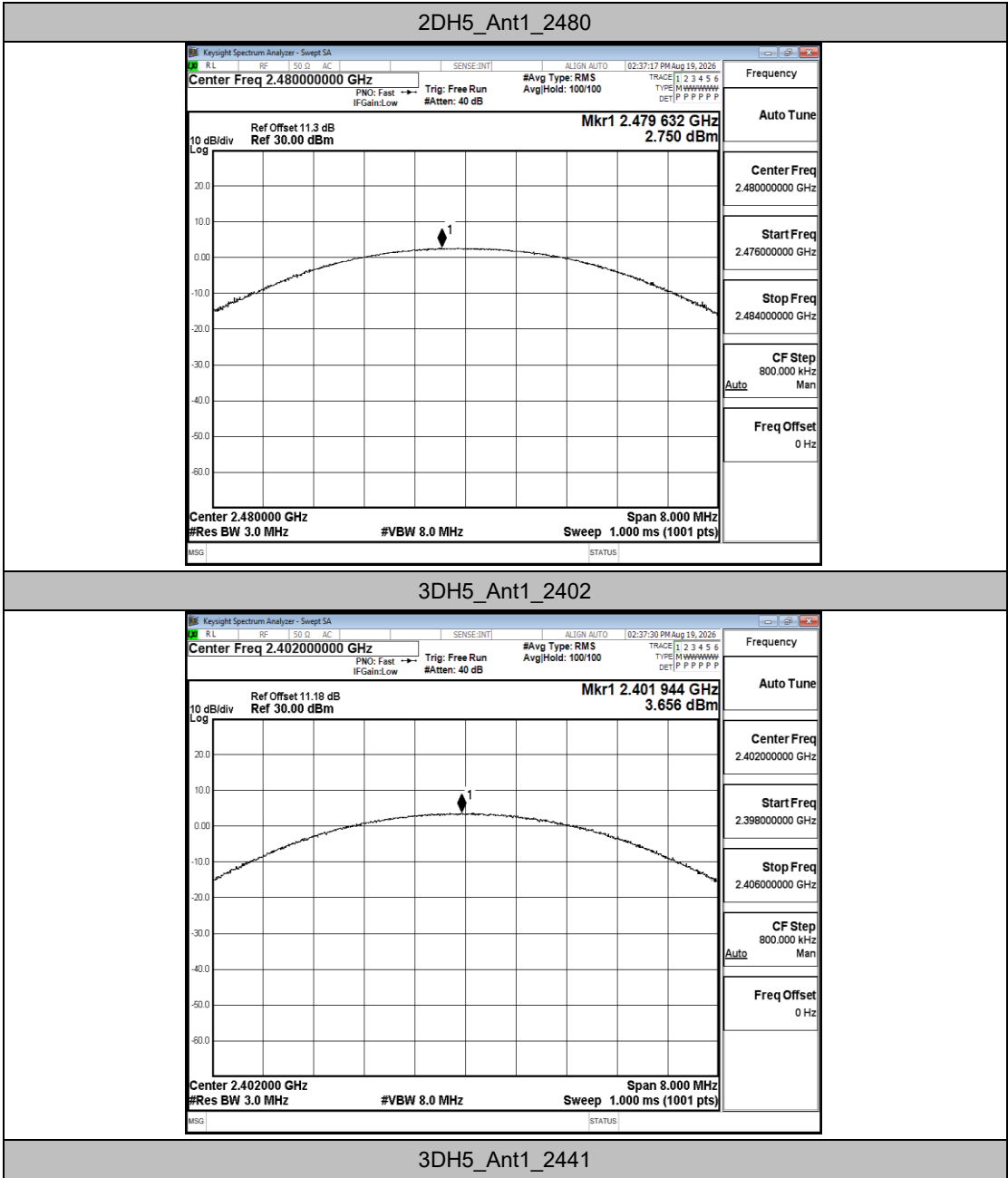


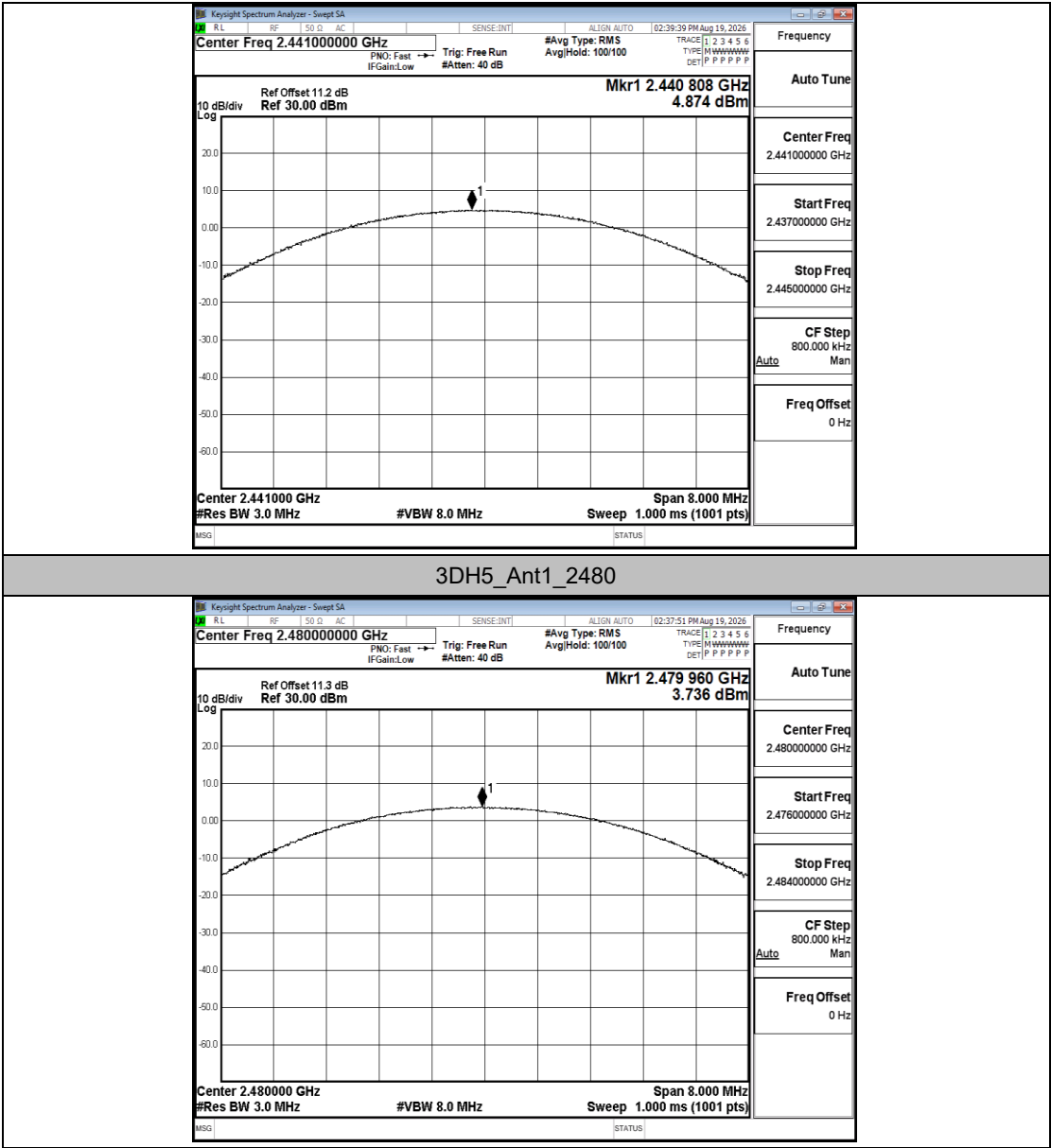


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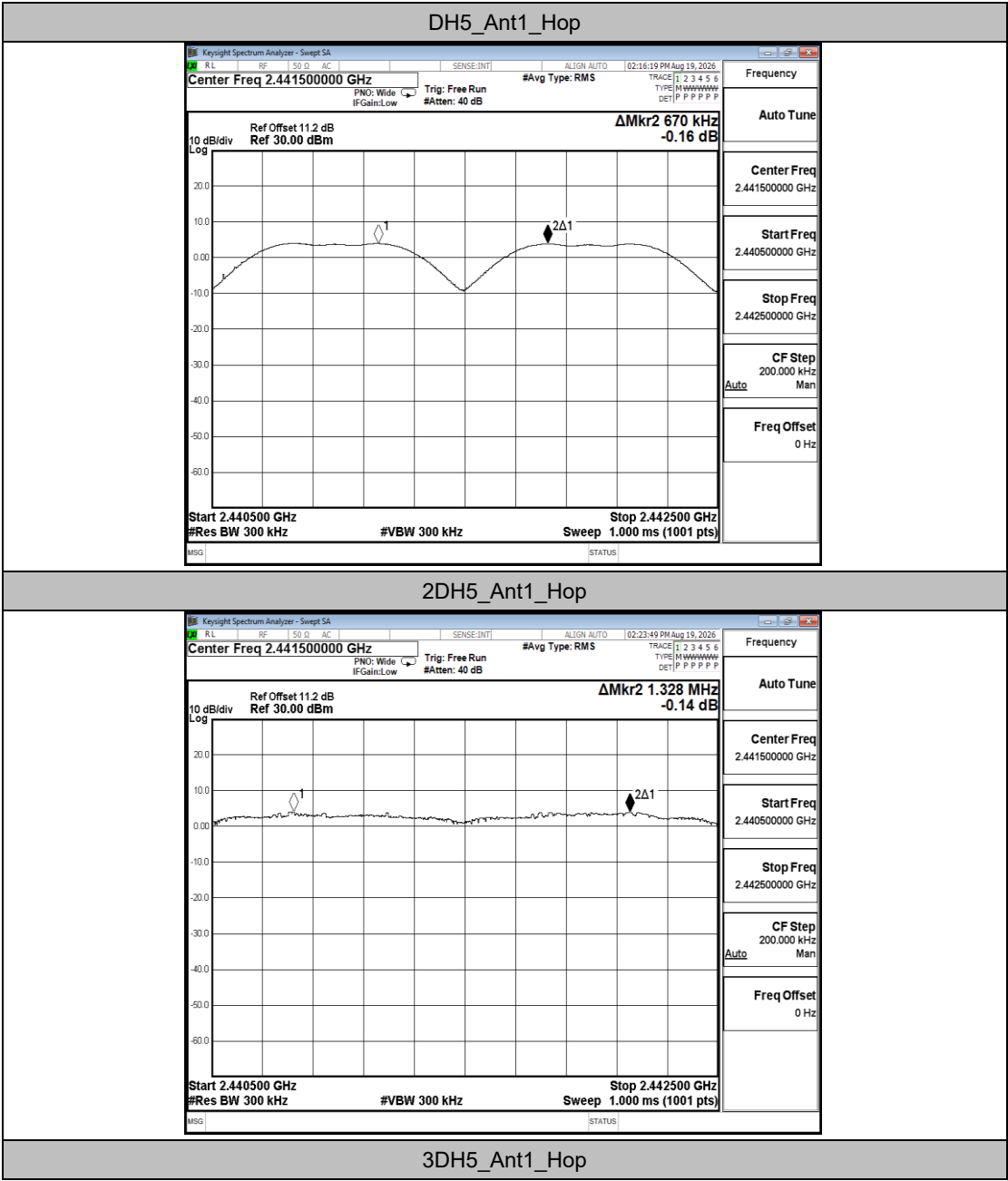


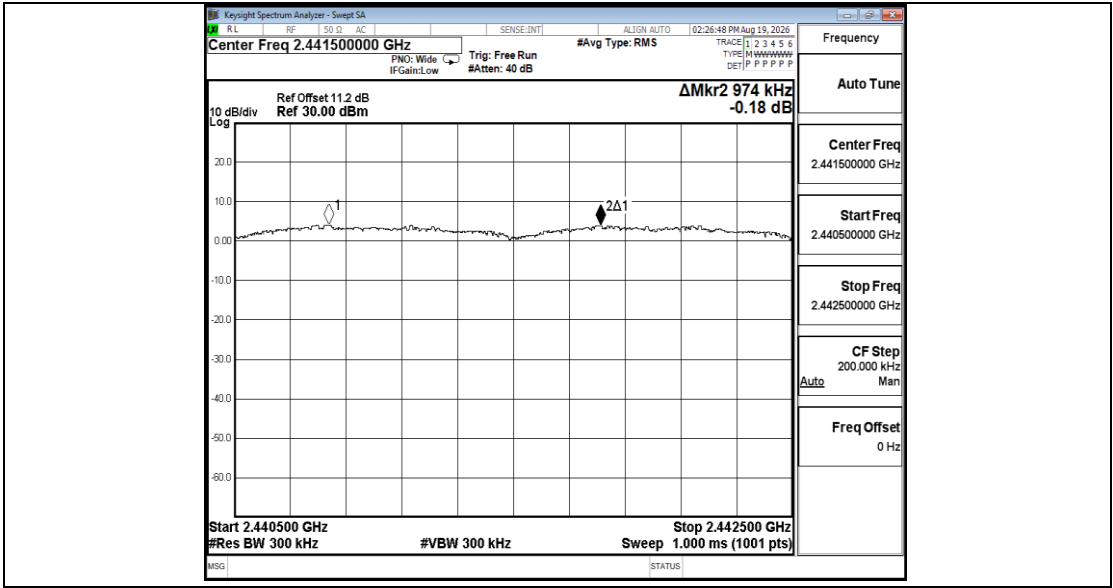
A.3 Carrier frequency separation

Test Result

TestMode	Antenna	Freq (MHz)	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.67	≥0.644	PASS
2DH5	Ant1	Hop	1.328	≥1.290	PASS
3DH5	Ant1	Hop	0.974	≥0.866	PASS

Test Graphs



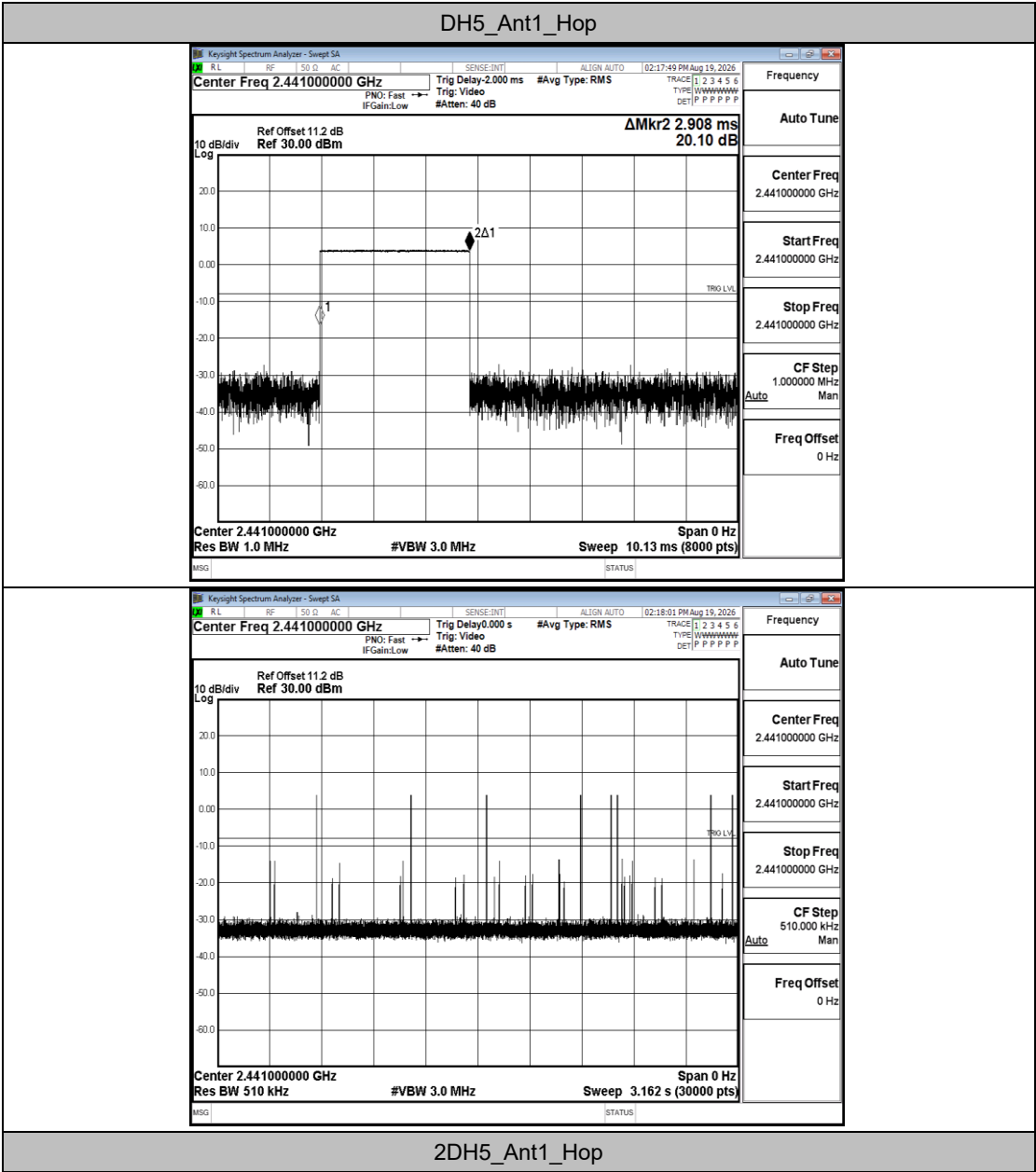


A.4 Time of occupancy

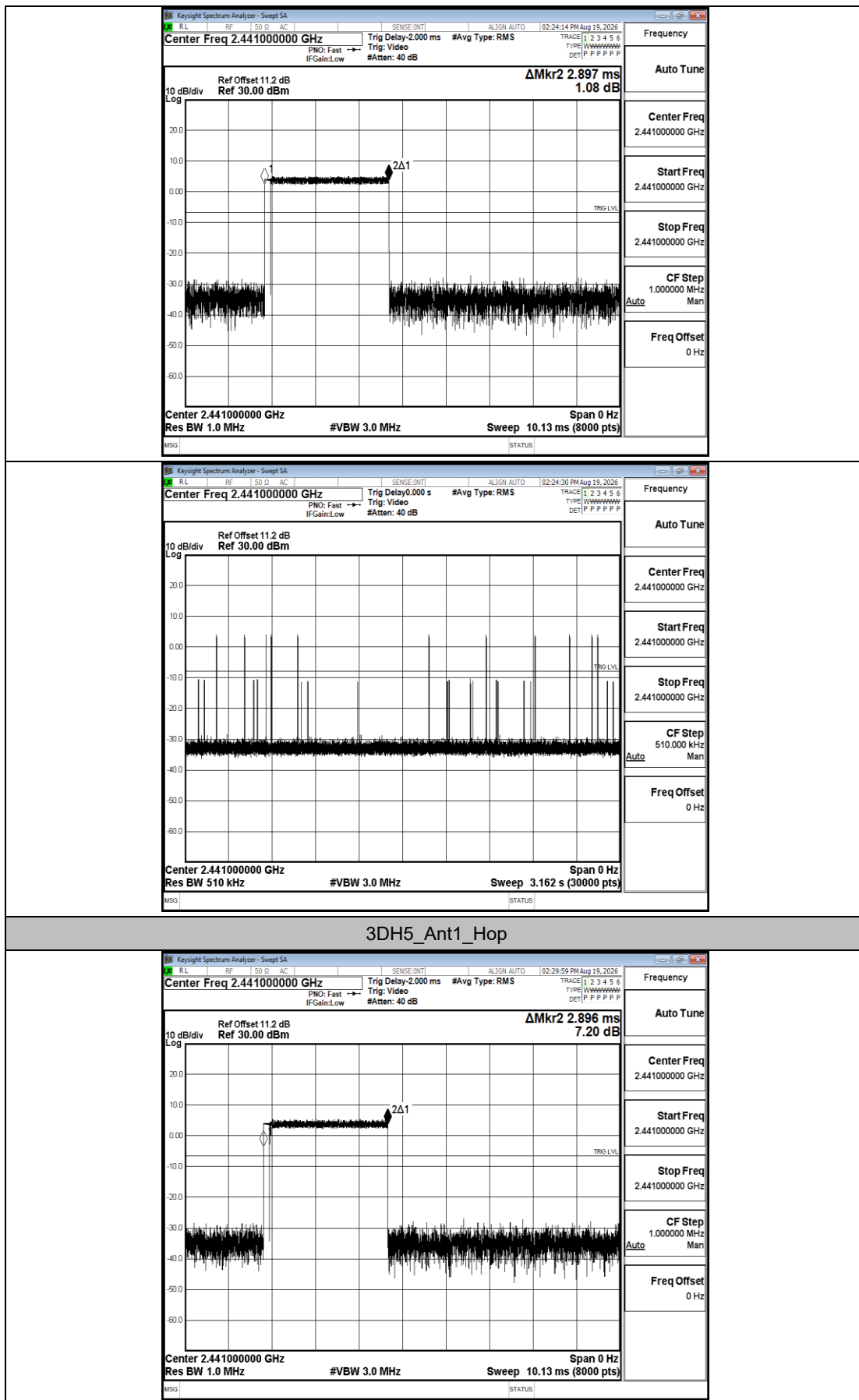
Test Result

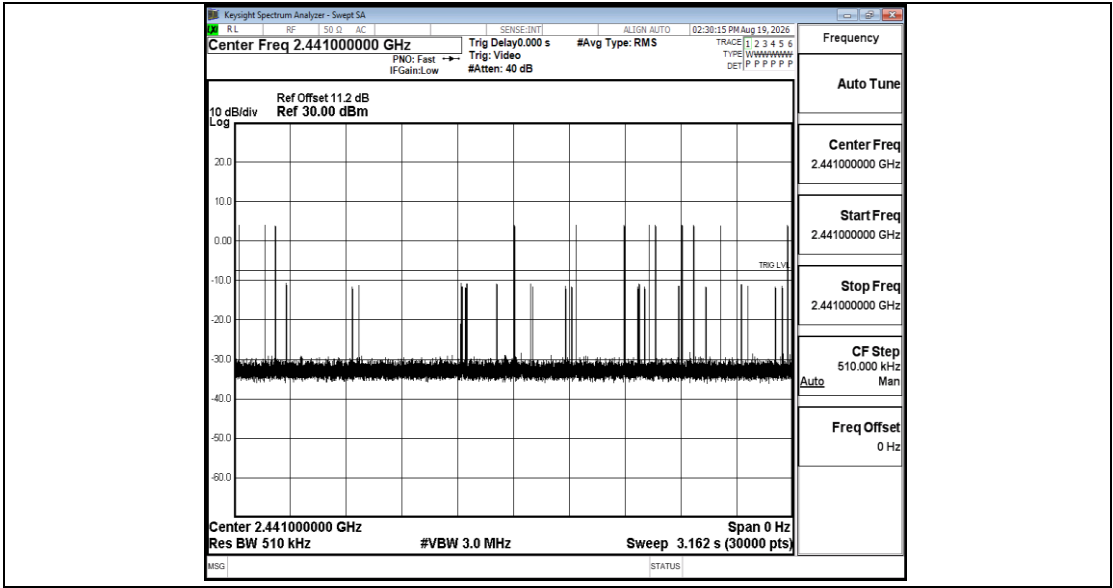
TestMode	Antenna	Freq (MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.908	90	0.262	≤0.4	PASS
2DH5	Ant1	Hop	2.897	130	0.377	≤0.4	PASS
3DH5	Ant1	Hop	2.896	130	0.376	≤0.4	PASS

Test Graphs



2DH5_Ant1_Hop



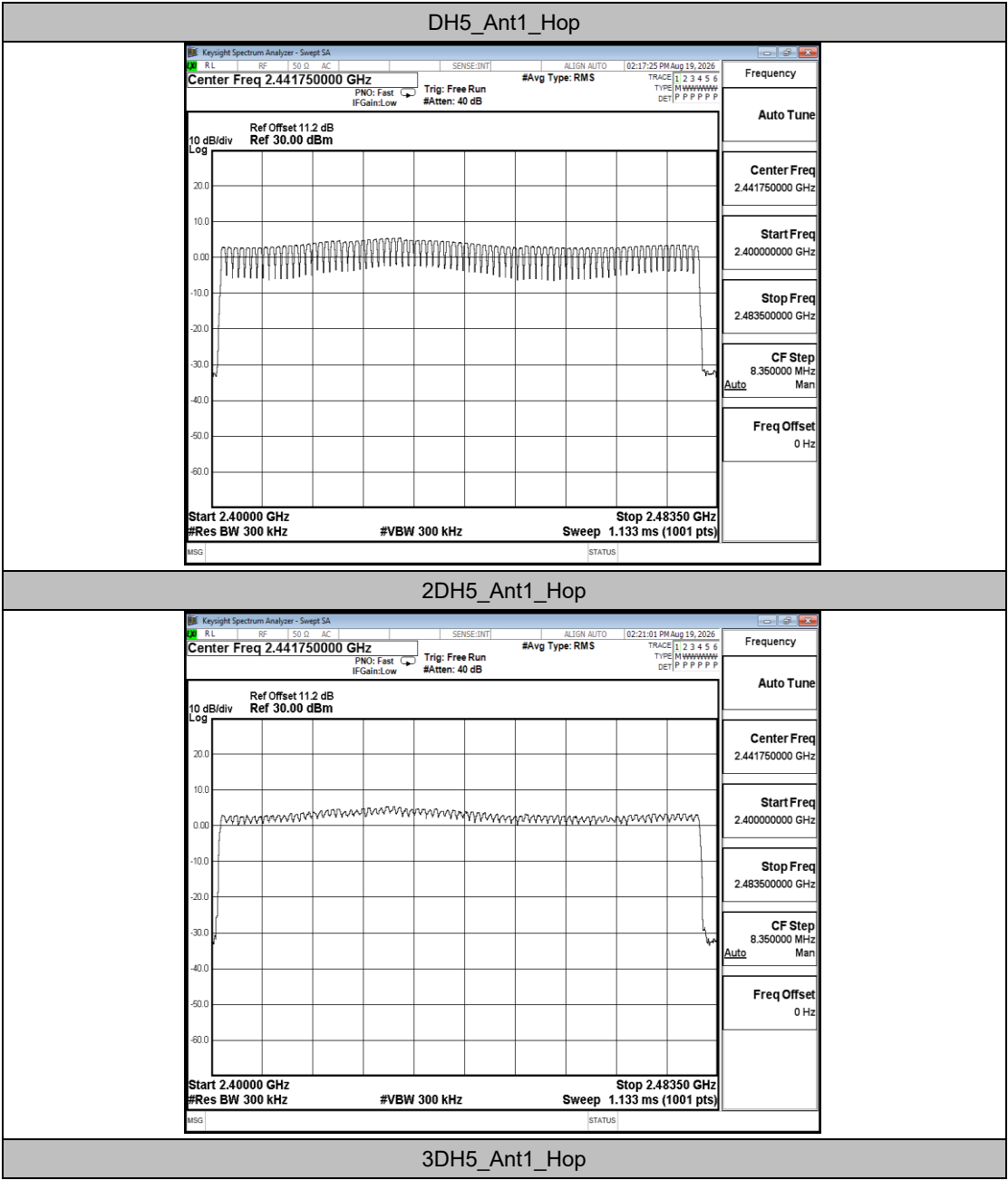


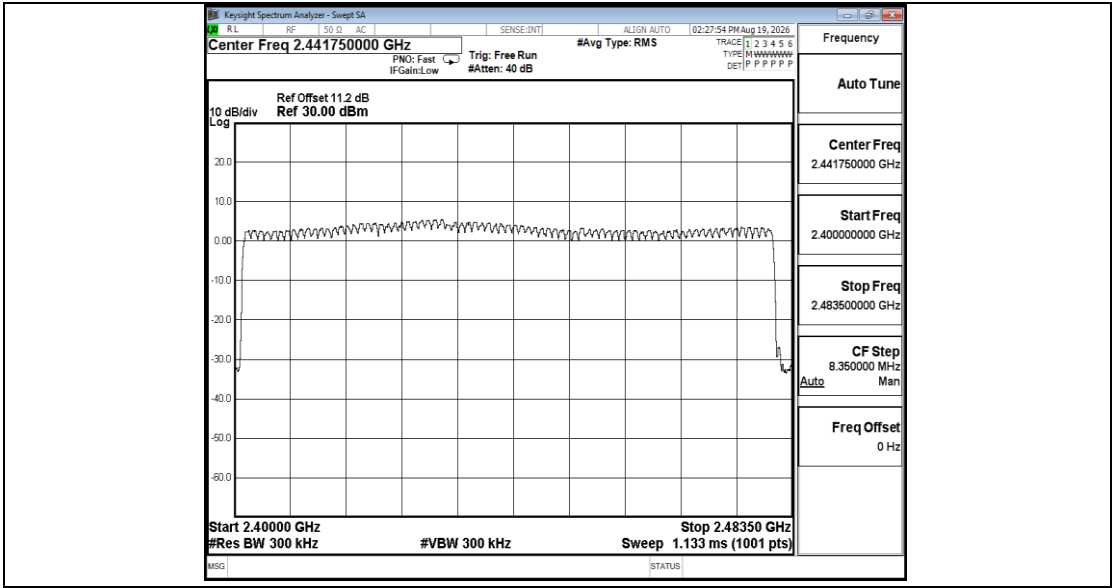
A.5 Number of hopping channels

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



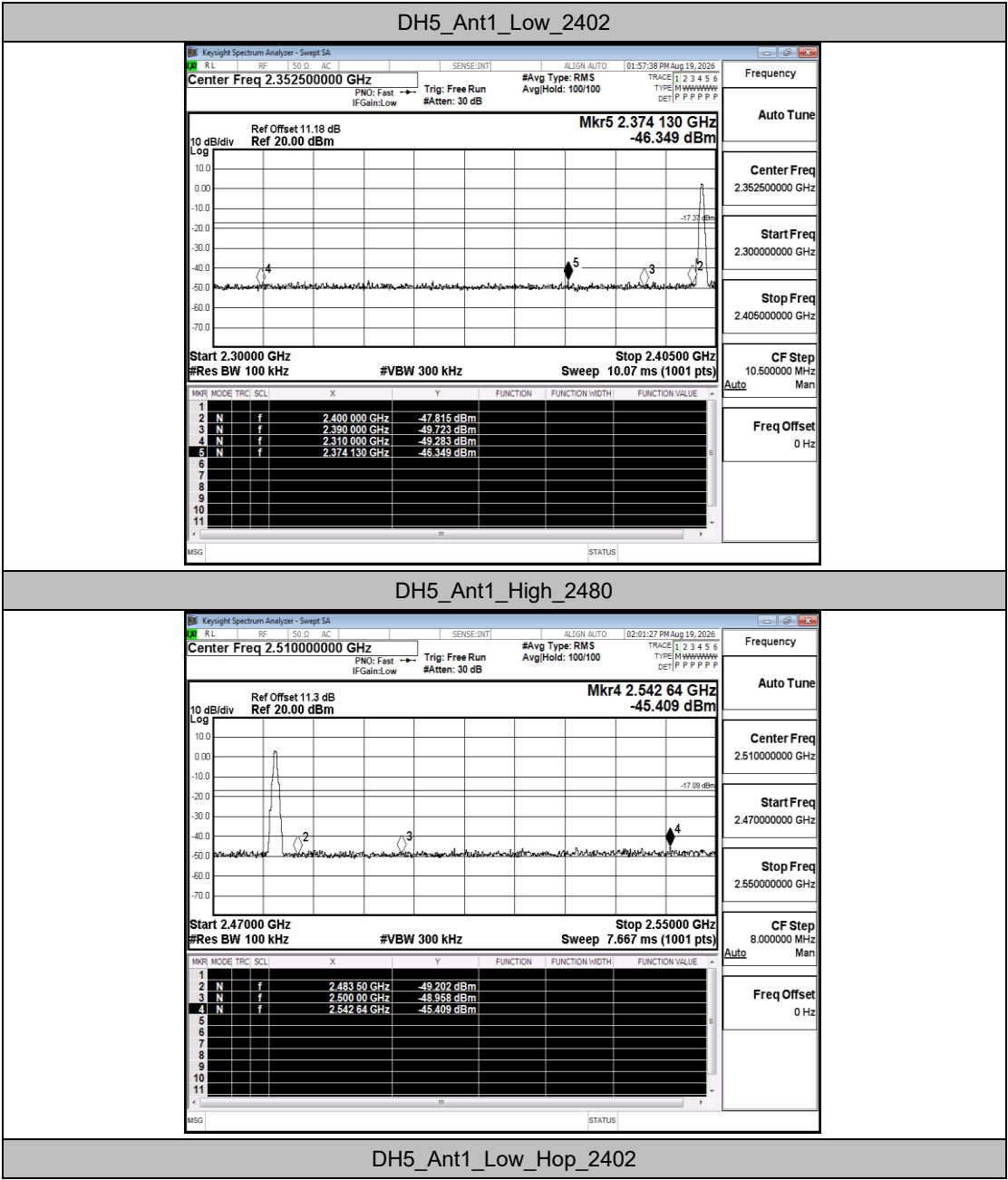


A.6 Band edge measurements

Test Result

TestMode	Antenna	ChName	Freq (MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	2.63	-46.35	≤-17.37	PASS
		High	2480	2.91	-45.41	≤-17.09	PASS
		Low	Hop_2402	1.58	-45.98	≤-18.42	PASS
		High	Hop_2480	2.98	-43.03	≤-17.02	PASS
2DH5	Ant1	Low	2402	1.94	-46.33	≤-18.06	PASS
		High	2480	2.79	-45.79	≤-17.21	PASS
		Low	Hop_2402	2.01	-45.56	≤-17.99	PASS
		High	Hop_2480	2.95	-38.44	≤-17.05	PASS
3DH5	Ant1	Low	2402	1.88	-45.54	≤-18.12	PASS
		High	2480	1.96	-38.95	≤-18.04	PASS
		Low	Hop_2402	2.30	-45.89	≤-17.7	PASS
		High	Hop_2480	2.44	-45.1	≤-17.56	PASS

Test Graphs



DH5_Ant1_High_2480

Keyight Spectrum Analyzer - Swept SA

RL

RF

50.0

AC

SENSE:INT

ALIGN:AUTO

02:01:27 PM Aug 19, 2026

Center Freq 2.510000000 GHz

PN0: Fast
IFGain:Low

Trig: Free Run
#Atten: 30 dB

#Avg Type: RMS
AvgHold: 100/100

TRACE 1 2 3 4 5 6
TYPE: M W W W W W W W
DET: P P P P P P P P

Frequency

Auto Tune

Center Freq
2.510000000 GHz

Start Freq
2.470000000 GHz

Stop Freq
2.550000000 GHz

CF Step
8.000000 MHz
Man

Freq Offset
0 Hz

Ref Offset 11.3 dB
Ref 20.00 dBm

Mkr4 2.542 64 GHz
-45.409 dBm

10 dB/div

Log

Start 2.470000 GHz
#Res BW 100 kHz

#VBW 300 kHz

Stop 2.550000 GHz
Sweep 7.667 ms (1001 pts)

MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE

1 N f 2.483 50 GHz -49.202 dBm

2 N f 2.500 00 GHz -48.958 dBm

3 N f 2.542 64 GHz -45.409 dBm

4 N f 2.542 64 GHz -45.409 dBm

5

6

7

8

9

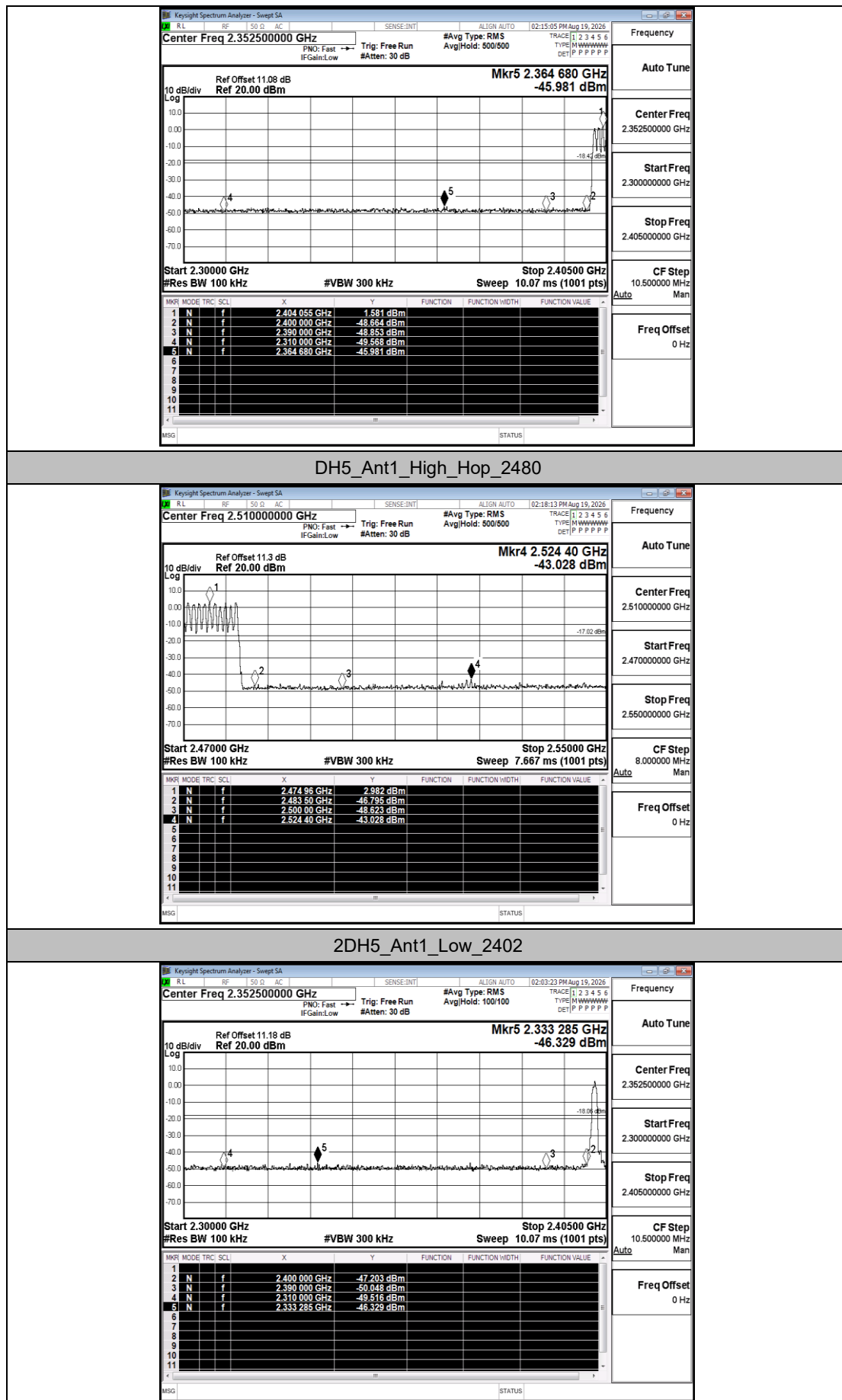
10

11

MSG

STATUS

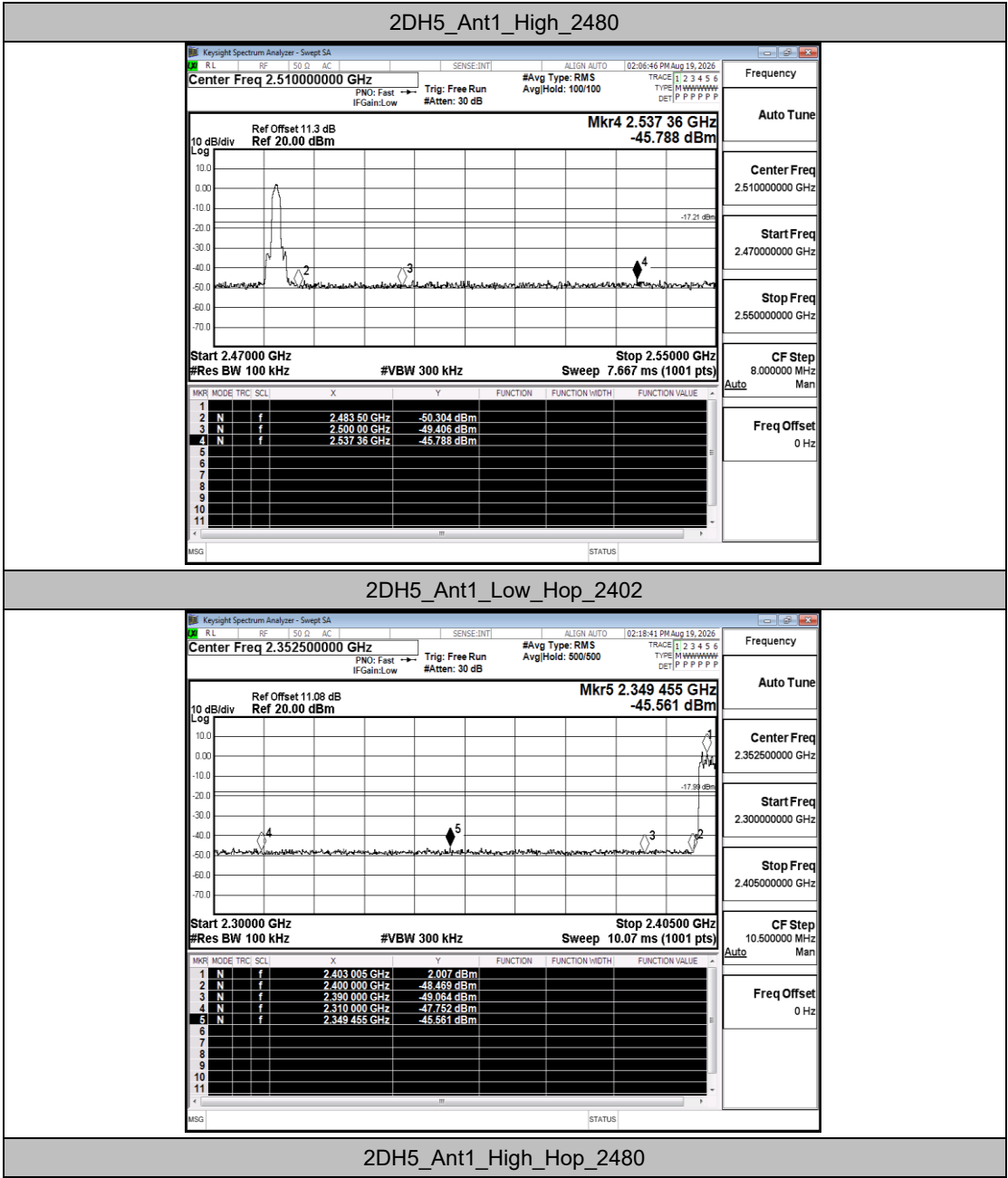
DH5_Ant1_Low_Hop_2402



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2DH5_Ant1_Low_Hop_2402

Keyight Spectrum Analyzer - Swept SA

RL

RF

SD

D

AC

SENSE:INT

ALIGN: AUTO

02:18:41 PM Aug 19, 2026

Center Freq 2.352500000 GHz

Trig: Free Run

#Avg Type: RMS

PN0: Fast

IFGain:Low

#Atten: 30 dB

AvgHold: 500/500

TRACE 1 2 3 4 5 6

TYPE: N W W W W W W

DET: P P P P P P P

Ref Offset 11.08 dB

Ref 20.00 dBm

Mkr5 2.349 455 GHz

-45.561 dBm

10 dB/div

Log

Start 2.30000 GHz

#Res BW 100 kHz

#VBW 300 kHz

Stop 2.40500 GHz

Sweep 10.07 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		2.403 005 GHz	-2.007 dBm			
2	N	f		2.400 000 GHz	-48.469 dBm			
3	N	f		2.390 000 GHz	-49.064 dBm			
4	N	f		2.310 000 GHz	-47.752 dBm			
5	N	f		2.349 455 GHz	-45.561 dBm			
6								
7								
8								
9								
10								
11								

Frequency

Auto Tune

Center Freq 2.352500000 GHz

Start Freq 2.300000000 GHz

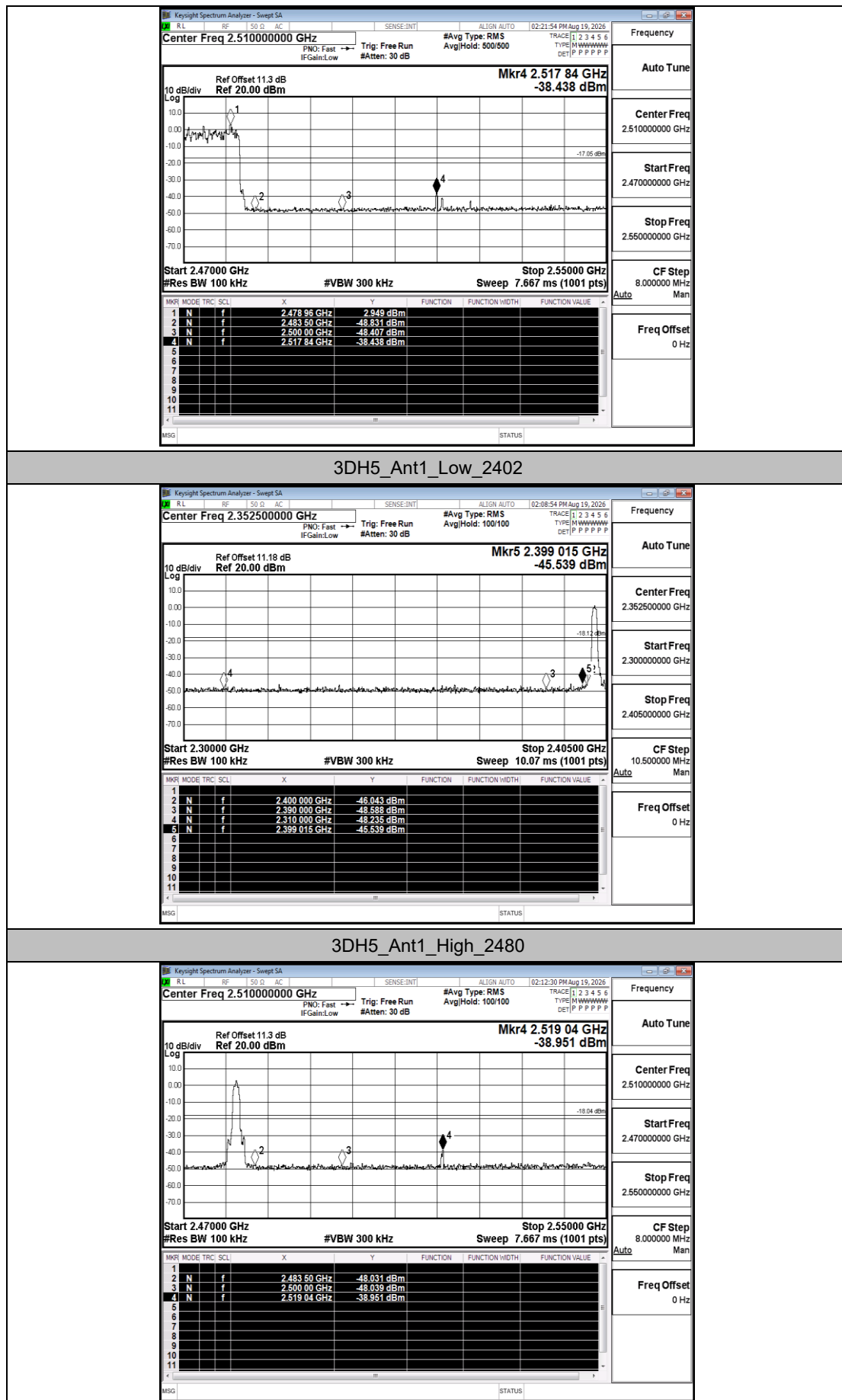
Stop Freq 2.405000000 GHz

CF Step 10.500000 MHz

Man

Freq Offset 0 Hz

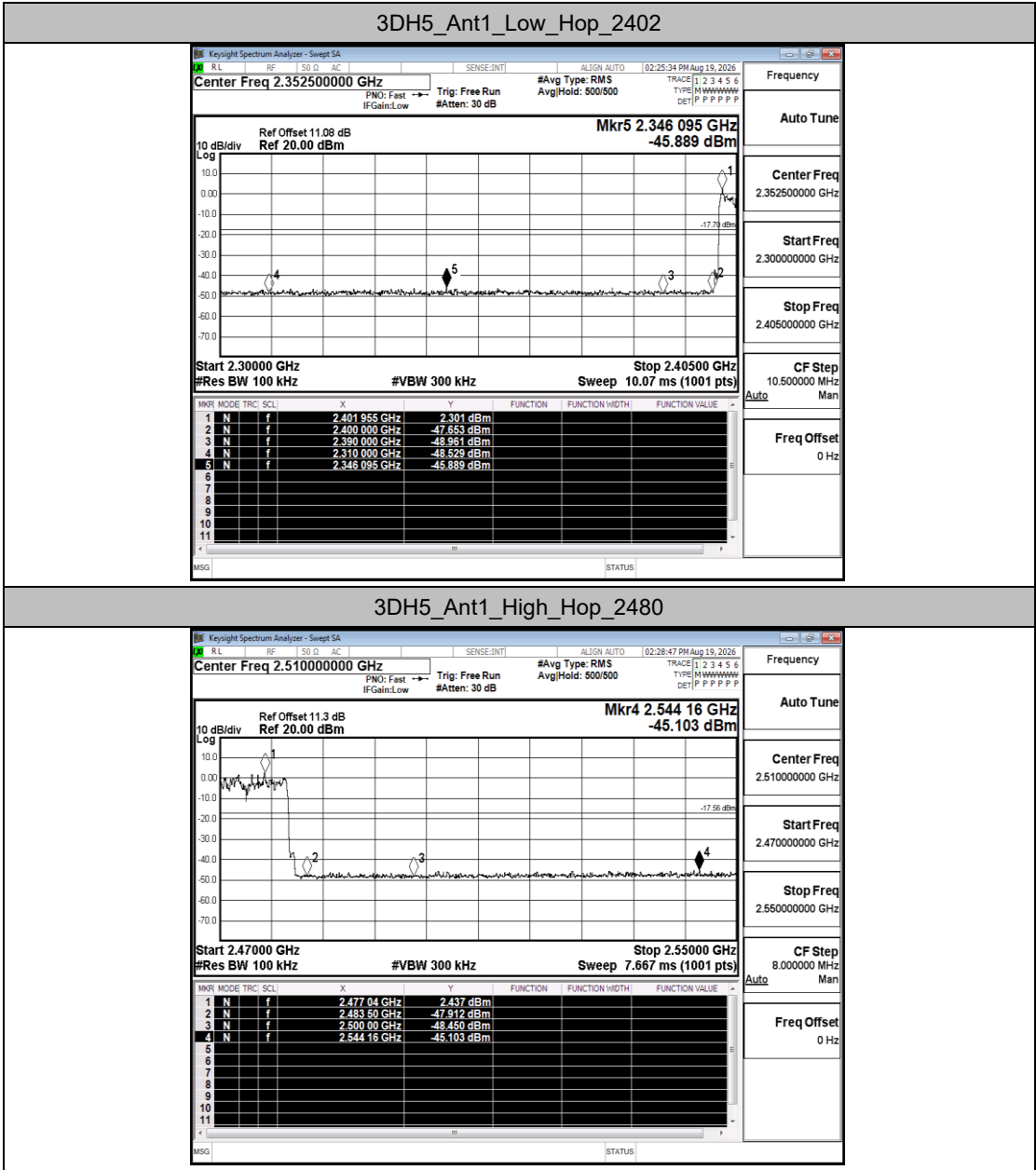
2DH5_Ant1_High_Hop_2480



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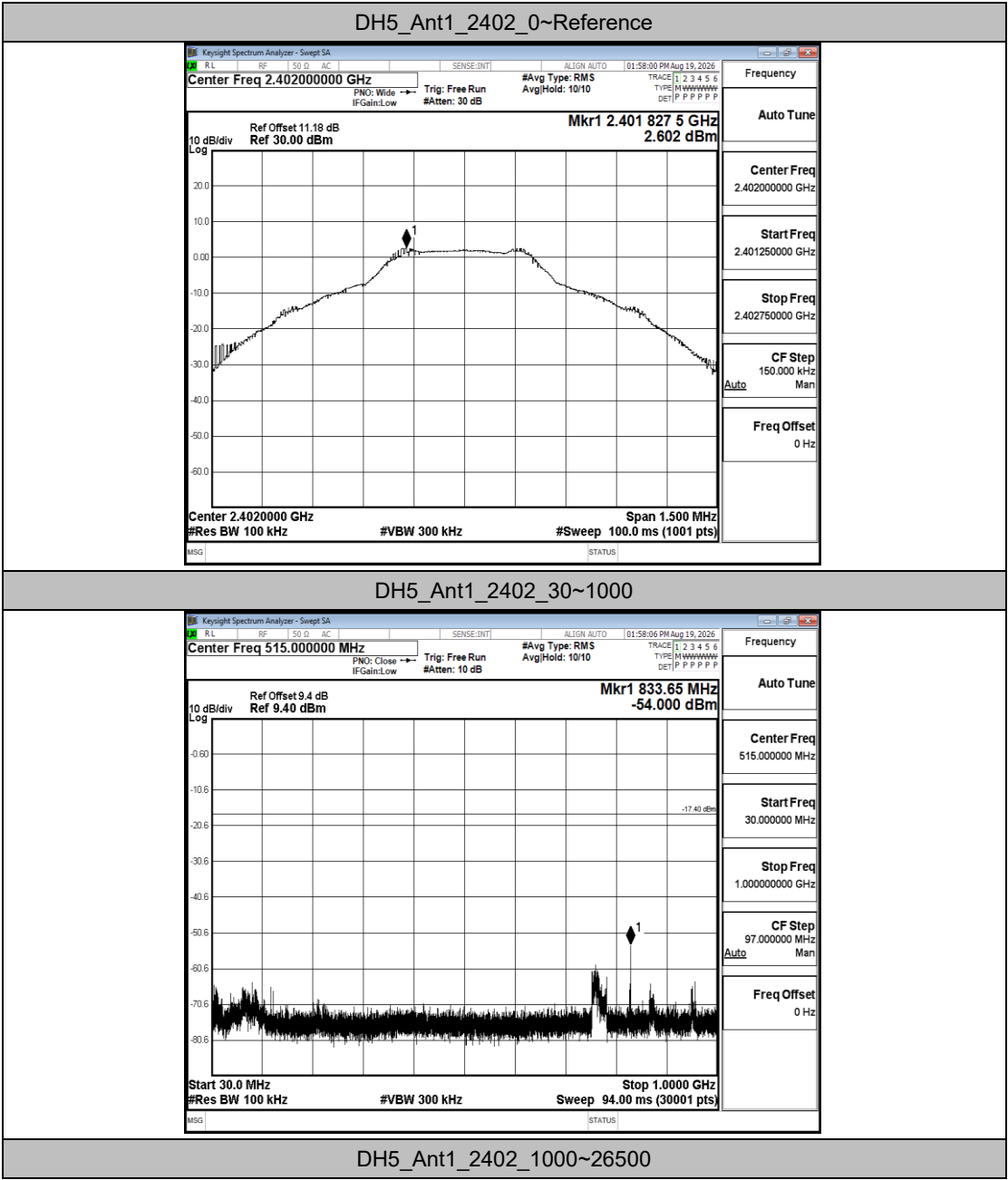


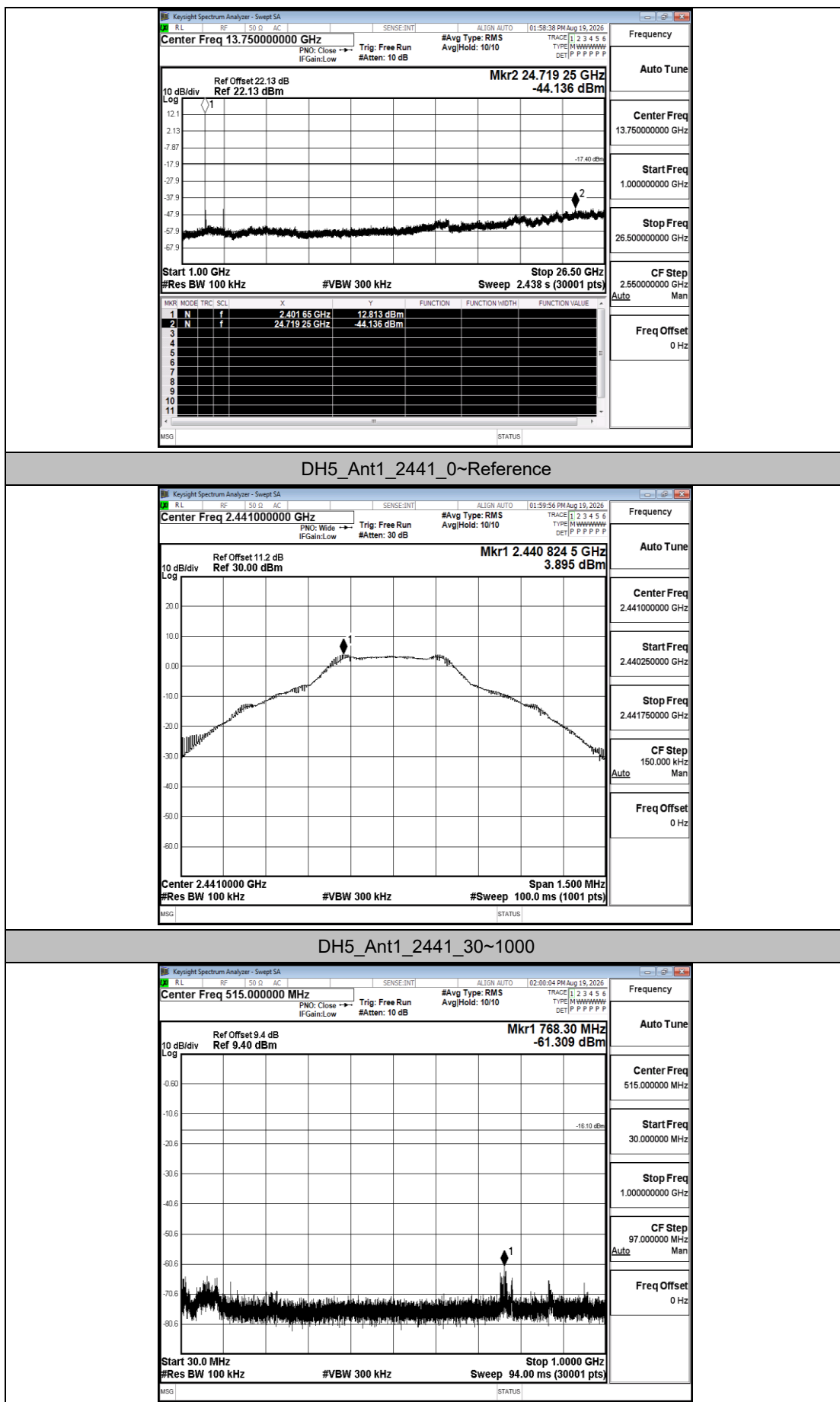
A.7 Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq (MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.60	2.60	---	PASS
			30~1000	2.60	-54	≤-17.4	PASS
			1000~26500	2.60	-44.14	≤-17.4	PASS
		2441	Reference	3.90	3.90	---	PASS
			30~1000	3.90	-61.31	≤-16.1	PASS
			1000~26500	3.90	-44.89	≤-16.1	PASS
		2480	Reference	3.01	3.01	---	PASS
			30~1000	3.01	-58.74	≤-16.99	PASS
			1000~26500	3.01	-44.23	≤-16.99	PASS
2DH5	Ant1	2402	Reference	2.48	2.48	---	PASS
			30~1000	2.48	-64.27	≤-17.52	PASS
			1000~26500	2.48	-44.61	≤-17.52	PASS
		2441	Reference	3.74	3.74	---	PASS
			30~1000	3.74	-62.33	≤-16.26	PASS
			1000~26500	3.74	-44.48	≤-16.26	PASS
		2480	Reference	2.84	2.84	---	PASS
			30~1000	2.84	-51.26	≤-17.16	PASS
			1000~26500	2.84	-44.75	≤-17.16	PASS
3DH5	Ant1	2402	Reference	2.65	2.65	---	PASS
			30~1000	2.65	-53.69	≤-17.35	PASS
			1000~26500	2.65	-44.29	≤-17.35	PASS
		2441	Reference	3.95	3.95	---	PASS
			30~1000	3.95	-52.29	≤-16.05	PASS
			1000~26500	3.95	-31.98	≤-16.05	PASS
		2480	Reference	3.00	3.00	---	PASS
			30~1000	3.00	-55.15	≤-17	PASS
			1000~26500	3.00	-44.36	≤-17	PASS

Test Graphs





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