

Appendix A: Test Results of Bluetooth BR & EDR

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Appendix A.1: Test Results of 20dB Bandwidth

Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.981	2401.535	2402.516	---	PASS
		2441	0.996	2440.526	2441.522	---	PASS
		2480	0.981	2479.529	2480.510	---	PASS
3DH5	Ant1	2402	1.350	2401.346	2402.696	---	PASS
		2441	1.278	2440.379	2441.657	---	PASS
		2480	1.311	2479.367	2480.678	---	PASS

Two screenshots of a Spectrum Analyzer interface showing the results of a swept SA measurement for two different antennas, DH5_Ant1_2402 and DH5_Ant1_2441.

Top Screenshot: DH5_Ant1_2402

- Center Frequency:** 2.40200000 GHz
- Span:** 3.0000000 MHz
- Start Freq:** 2.400500000 GHz
- Stop Freq:** 2.403500000 GHz
- Ref Lvl Offset:** 18.22 dB
- Ref Level:** 30.00 dBm
- Marker 3:** 981 kHz, -0.80 dB
- Marker 1:** 981 kHz (Δ), -0.8026 dB

Bottom Screenshot: DH5_Ant1_2441

- Center Frequency:** 2.44100000 GHz
- Span:** 3.0000000 MHz
- Start Freq:** 2.439500000 GHz
- Stop Freq:** 2.442500000 GHz
- Ref Lvl Offset:** 18.16 dB
- Ref Level:** 30.00 dBm
- Marker 3:** 996 kHz, -0.93 dB
- Marker 1:** 996 kHz (Δ), -0.9311 dB

Both screenshots show a spectrum plot with a yellow trace, a green reference line at -10.00 dBm, and a blue trace at the bottom. The plots show a peak around 981 kHz for the top antenna and 996 kHz for the bottom antenna. The interface includes various settings and a 5 Marker Table at the bottom of each plot.



3DH5 Ant1_2402



3DH5 Ant1_2441



3DH5 Ant1_2480

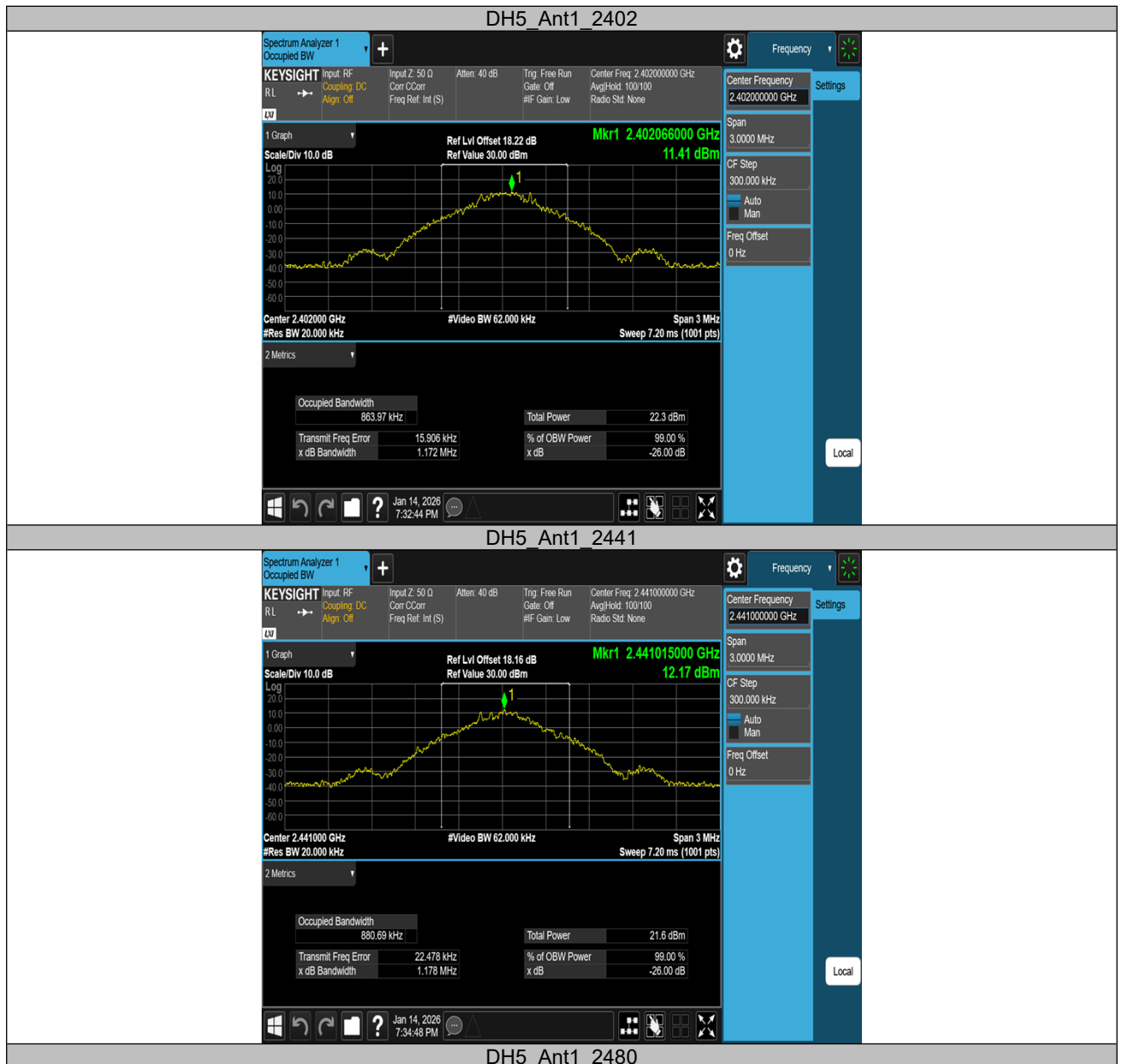


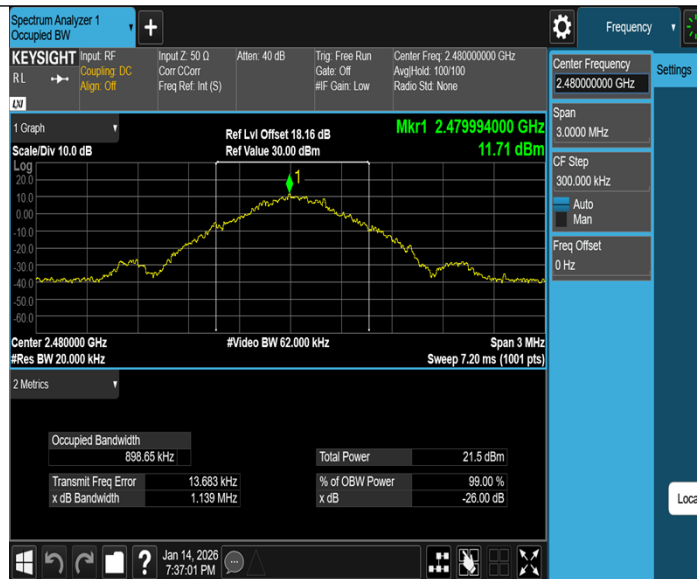
Appendix A.2: Test Results of 99% Bandwidth

Test Result

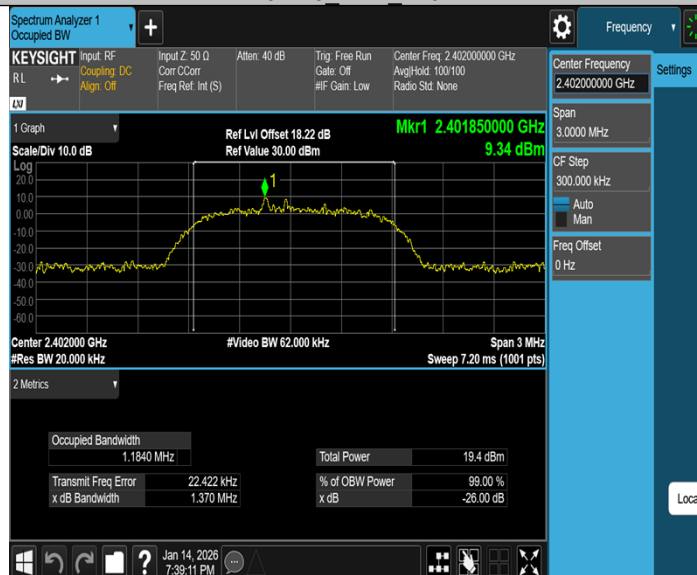
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86397	2401.5839	2402.4479	---	PASS
		2441	0.88069	2440.5821	2441.4628	---	PASS
		2480	0.89865	2479.5644	2480.4630	---	PASS
3DH5	Ant1	2402	1.1840	2401.4304	2402.6144	---	PASS
		2441	1.1977	2440.4206	2441.6183	---	PASS
		2480	1.1978	2479.4177	2480.6155	---	PASS

Test Graphs

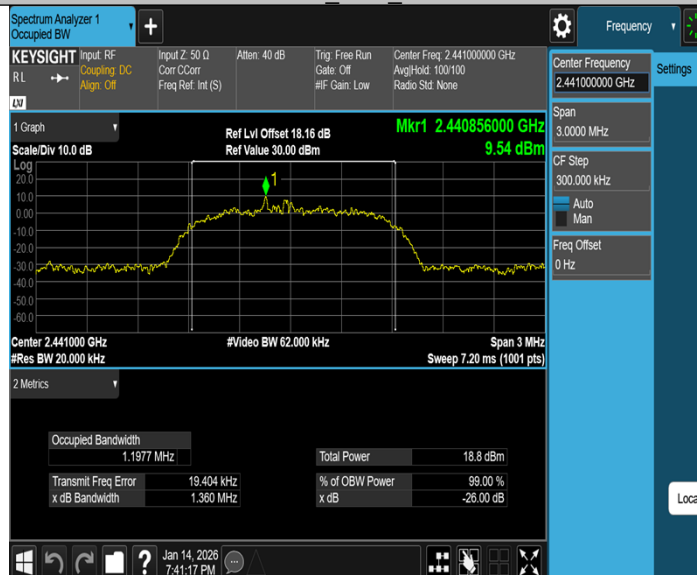




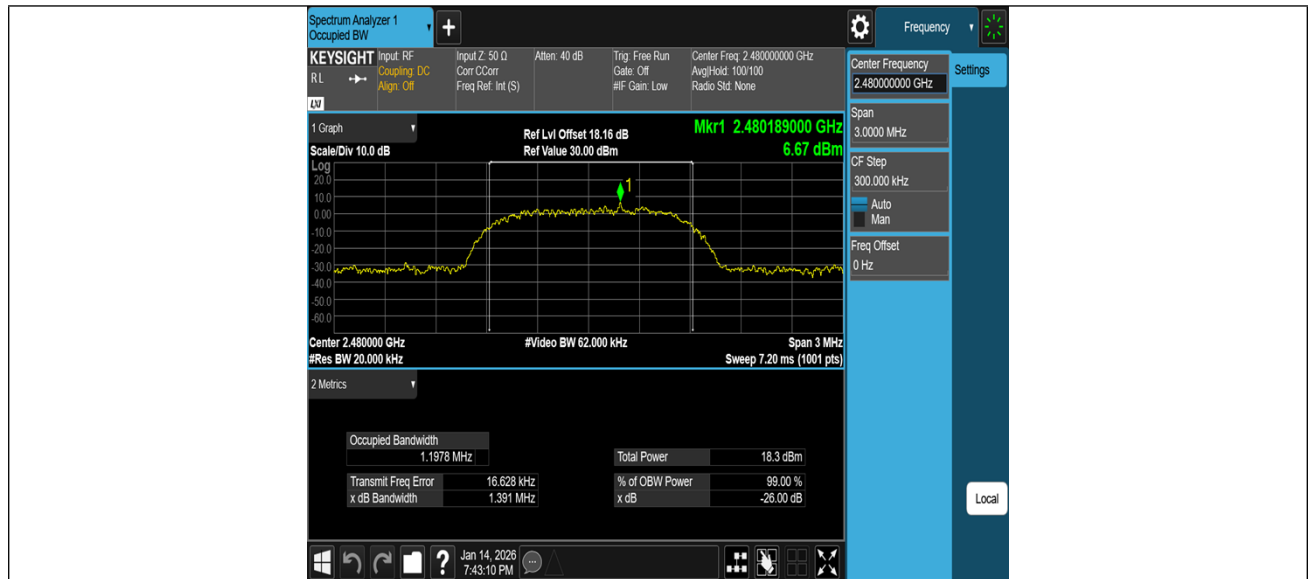
3DH5 Ant1_2402



3DH5 Ant1_2441



3DH5 Ant1_2480



Appendix A.3: Test Results of Carrier Frequency Separation

Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.022	≥ 0.996	PASS
3DH5	Ant1	Hop	1.03	≥ 0.900	PASS

Test Graphs



Appendix A.4: Test Results of Time of Occupancy

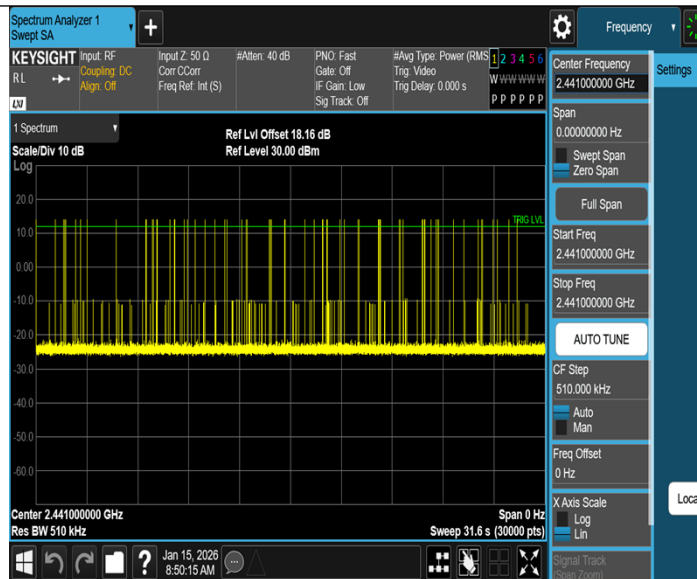
Test Result

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.389	46	0.018	≤0.4	PASS
DH3	Ant1	Hop	1.644	52	0.085	≤0.4	PASS
DH5	Ant1	Hop	2.893	58	0.168	≤0.4	PASS
3DH1	Ant1	Hop	0.394	61	0.024	≤0.4	PASS
3DH3	Ant1	Hop	1.645	52	0.086	≤0.4	PASS
3DH5	Ant1	Hop	2.897	52	0.151	≤0.4	PASS

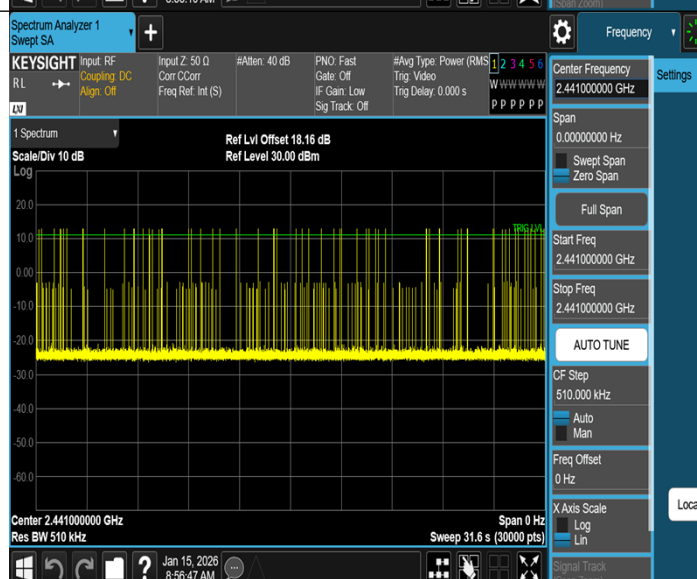
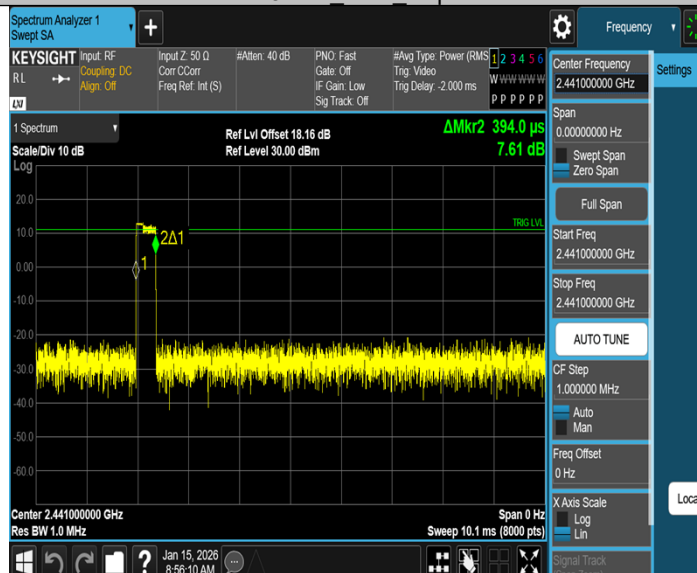
Test Graphs



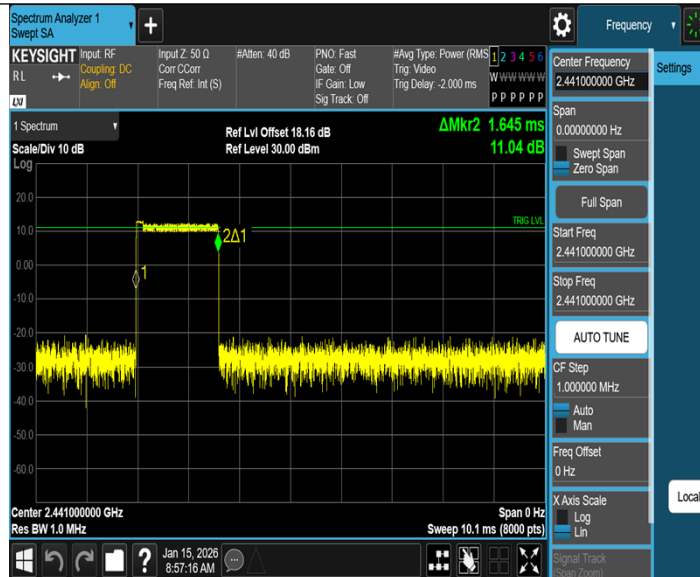




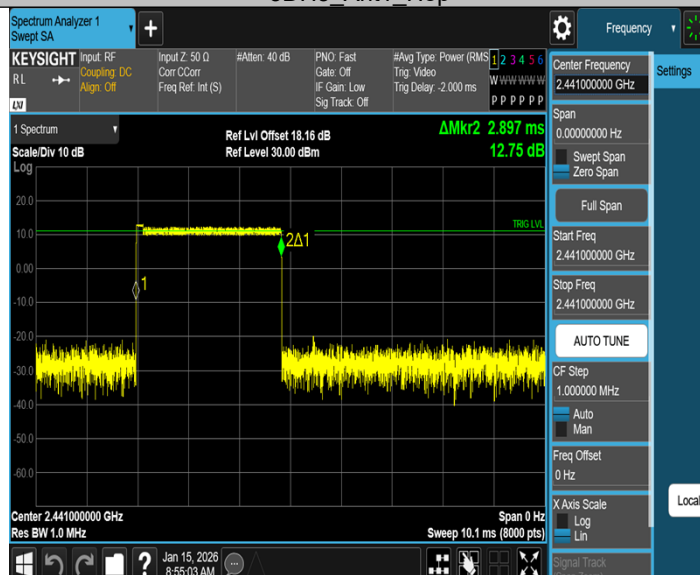
3DH1_Ant1_Hop

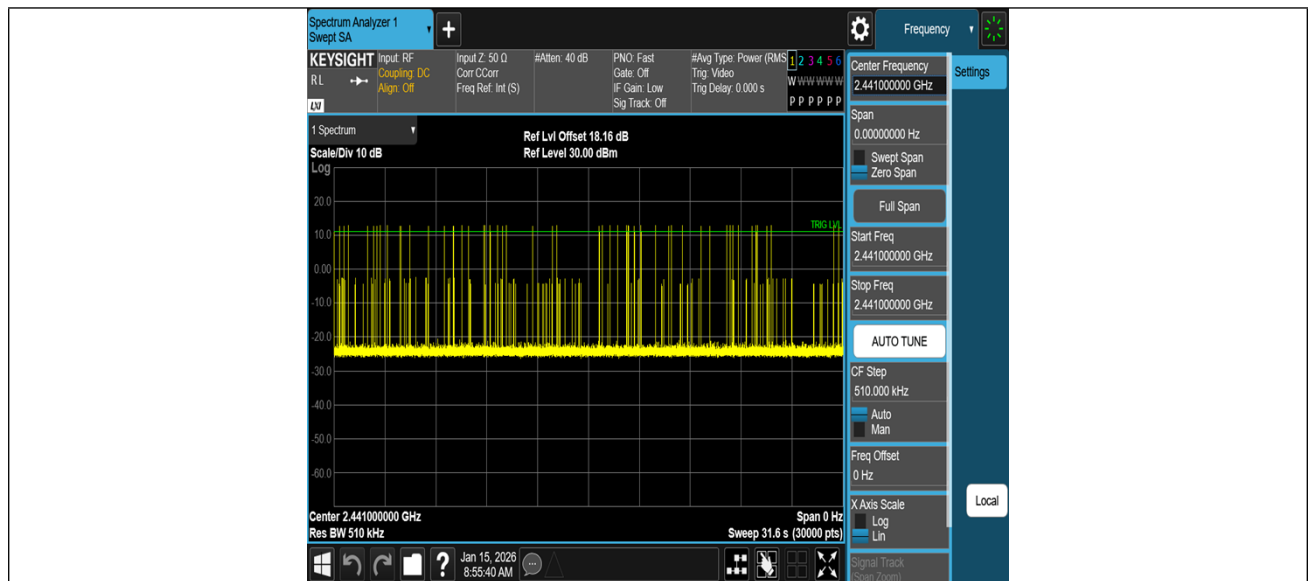


3DH3_Ant1_Hop



3DH5_Ant1_Hop





Appendix A.5: Test Results of Number of Hopping Frequency

Test Result

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

Test Graphs



Appendix A.6: Test Results of Band Edge Measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	14.38	-38.50	≤-5.62	PASS
		High	2480	14.19	-41.23	≤-5.81	PASS
3DH5	Ant1	Low	2402	13.14	-39.31	≤-6.86	PASS
		High	2480	12.76	-38.74	≤-7.24	PASS
DH5	Ant1	Hopping	2402	14.43	-41.03	≤-5.57	PASS
		Hopping	2480	13.84	-41.90	≤-6.16	PASS
3DH5	Ant1	Hopping	2402	8.41	-40.86	≤-11.59	PASS
		Hopping	2480	7.43	-41.97	≤-12.57	PASS

Test Graphs

