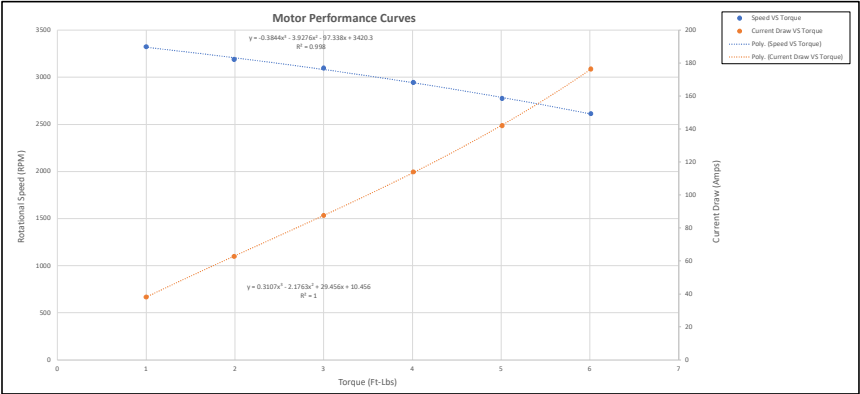
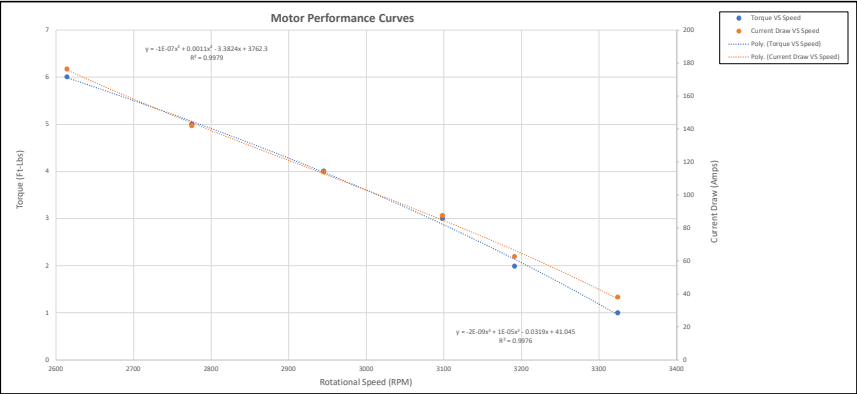
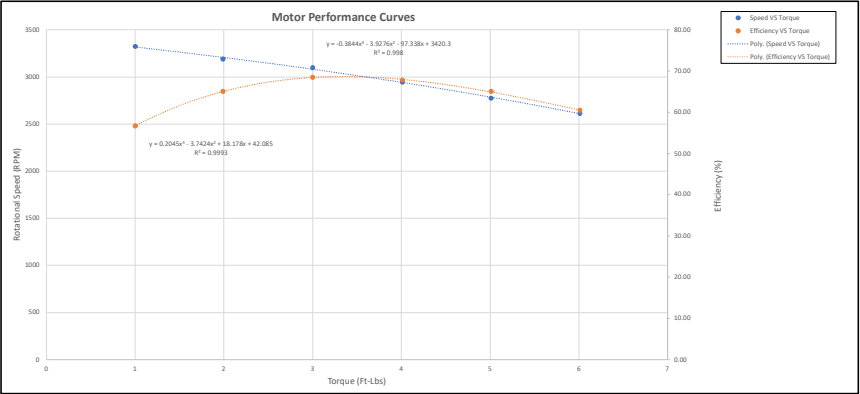
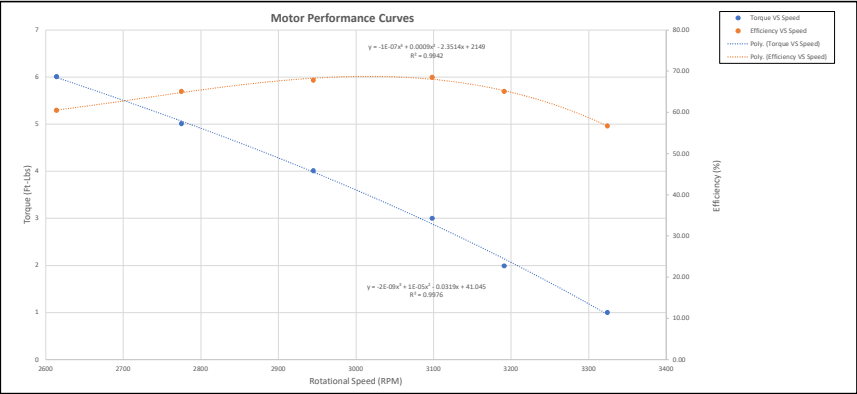


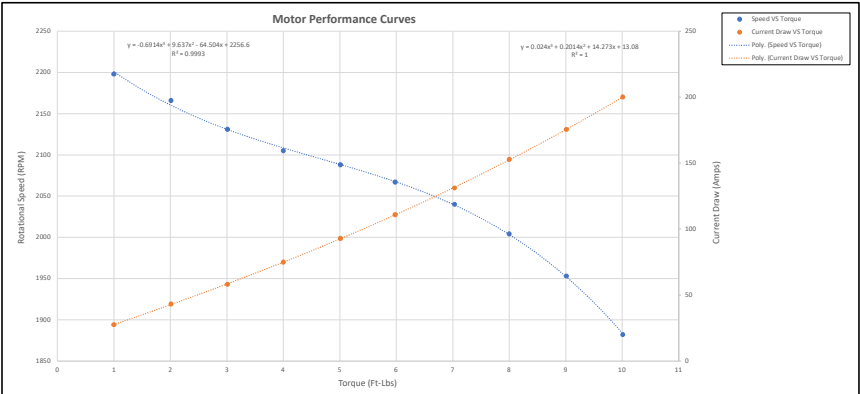
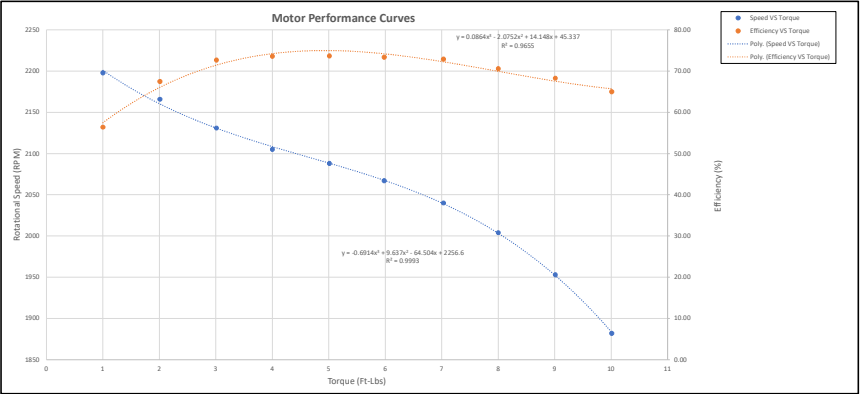
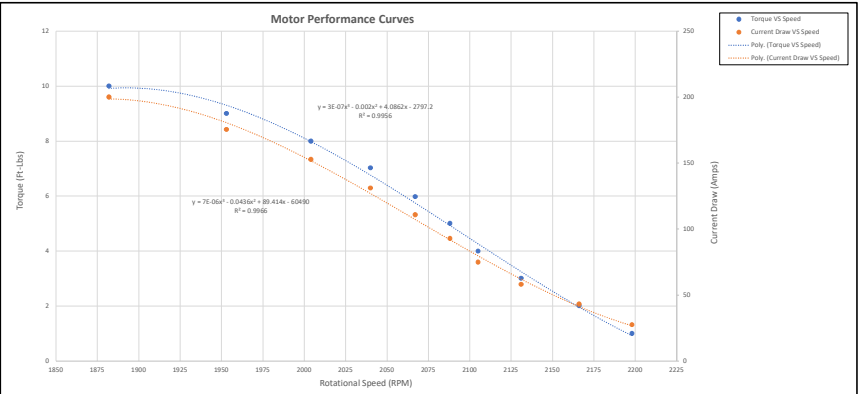
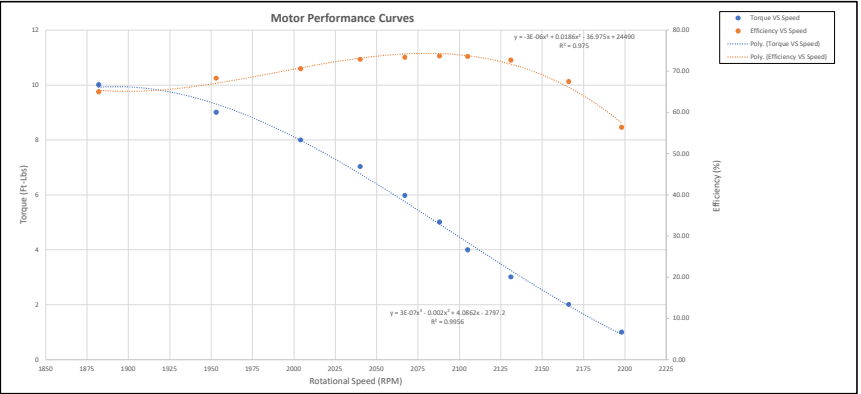
Engineering Performance Test Report
Performance Spec (PS) Number: 5
System Voltage [V]: 24 - (V * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amper)	Field Voltage (Volts)	Field Current (Amper)	Total Current (Amper)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
1	3324	23.5	35.2	2.4	2.92	38.12	1.12	0.63	56.70
1.99	3191	23.4	39.8	2.4	2.93	62.23	1.86	1.21	65.10
3	3098	22.7	84.7	2.4	2.9	87.6	2.59	1.77	68.50
4.01	2945	22.3	111	2.4	3.02	114.02	3.32	2.25	67.80
5.01	2775	21.8	139.2	2.4	2.89	142.09	4.07	2.65	65.10
6.01	2614	21.3	173.3	2.4	3.15	176.45	4.95	2.99	60.50



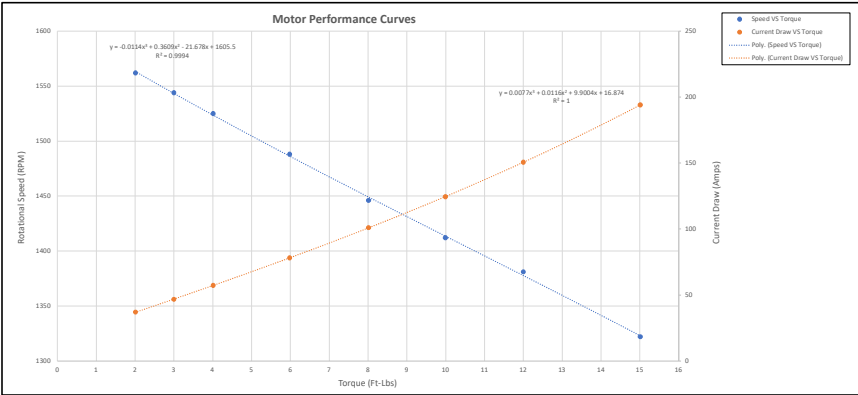
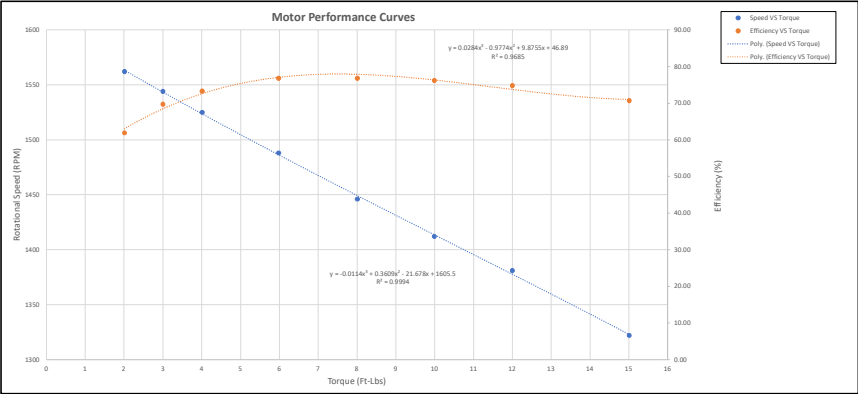
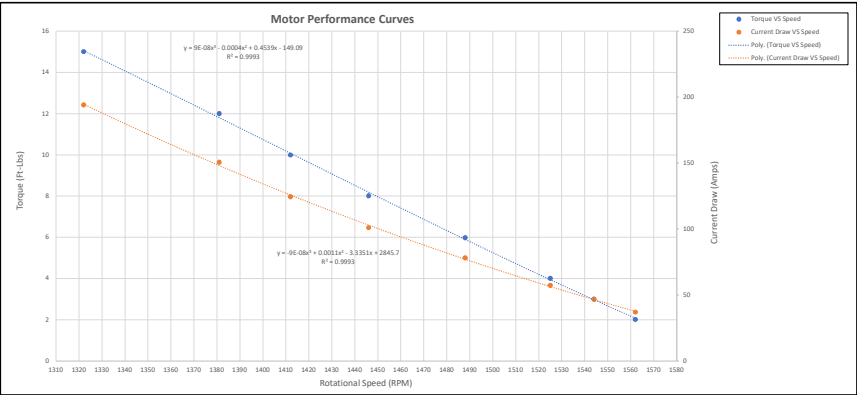
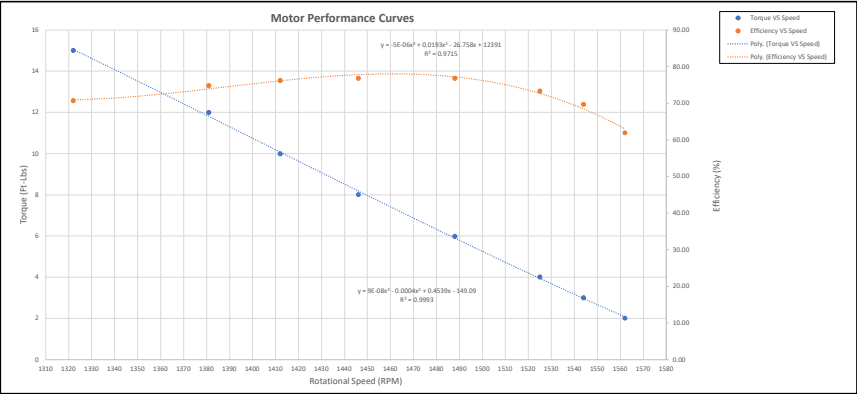
Engineering Performance Test Report
Performance Spec (PS) Number: 5
System Voltage (V): 24 - (V ± 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
1	2198	23.7	22.5	4	4.97	27.47	0.74	0.42	56.40
2.01	2166	23.5	28.2	4	4.94	43.14	1.23	0.83	67.50
3.01	2131	23.2	33.2	4	4.94	58.14	1.68	1.22	72.70
4	2105	22.9	70	4	4.92	74.92	2.18	1.6	73.60
5.01	2088	22.7	88	4	4.88	92.88	2.7	1.99	73.70
5.98	2067	22.4	105.9	4	5.02	110.92	3.21	2.35	73.40
7.03	2040	22	126	4	5.14	131.14	3.75	2.73	72.90
8	2004	21.7	147.9	4	4.95	152.85	4.32	3.05	70.60
9.01	1953	21.3	170.4	4	5.14	175.54	4.9	3.35	68.30
10.01	1882	21	195.3	4	4.88	200.18	5.52	3.58	65.00



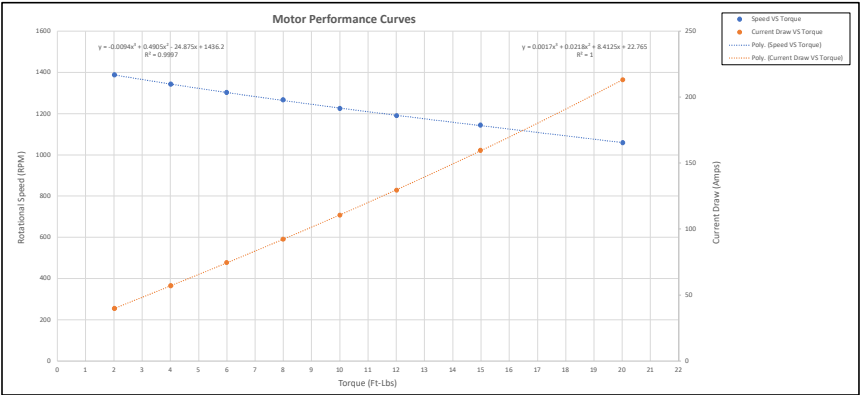
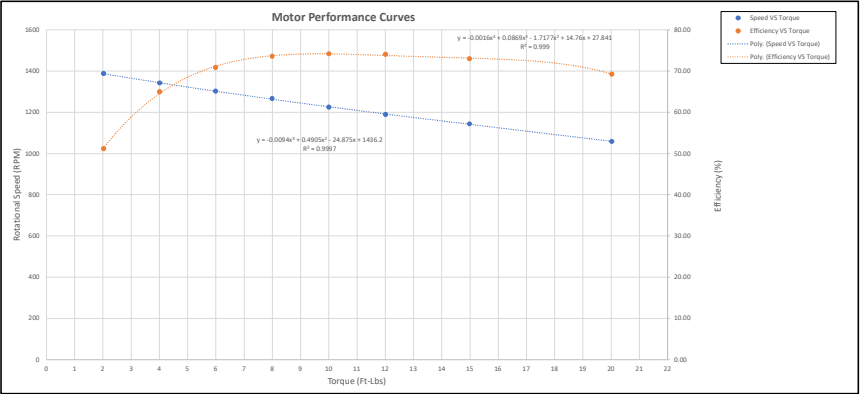
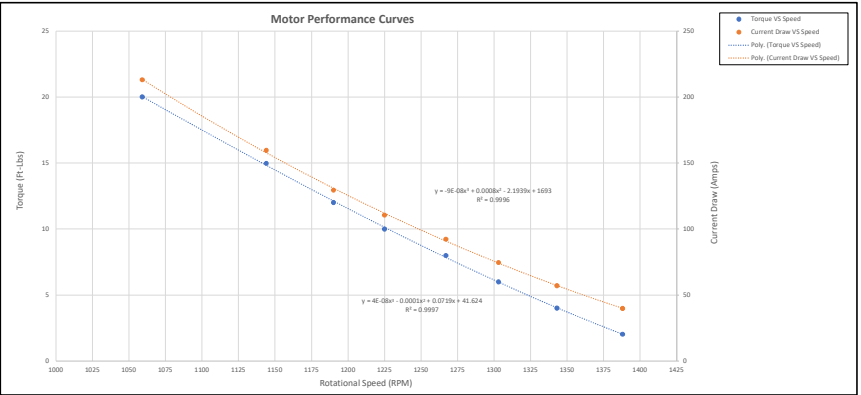
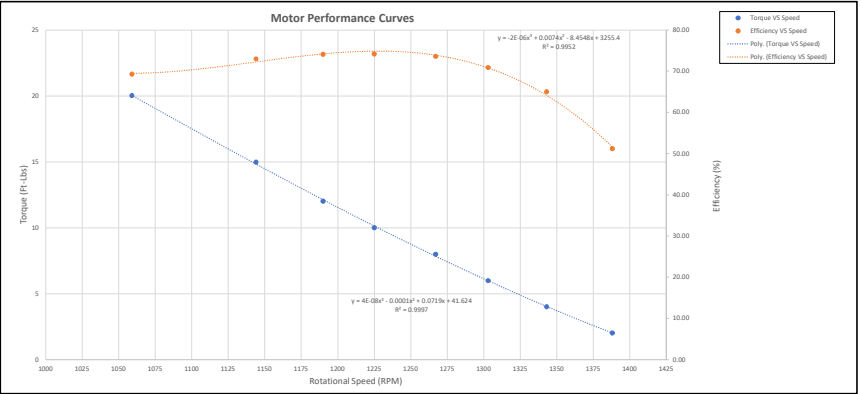
Engineering Performance Test Report
Performance Spec (PS) Number: 5
System Voltage [V]: 24 - (V ± 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
2.01	1562	23.6	27	8.3	10.01	37.01	0.97	0.6	61.90
3	1544	23.5	26.7	8.3	10	46.7	1.26	0.88	69.70
4.01	1525	23.3	47.2	8.3	10.05	57.25	1.59	1.16	73.30
5.98	1488	23	68.1	8.3	10.06	78.16	2.21	1.7	76.80
8.01	1446	22.6	91	8.2	10.02	101.02	2.87	2.2	76.80
9.99	1412	22.3	114.4	8.2	10.1	124.5	3.51	2.69	76.20
12	1381	21.8	140.4	8.2	10.22	150.62	4.22	3.16	74.80
15.01	1322	21.2	184	8.2	10.11	194.11	5.34	3.78	70.70



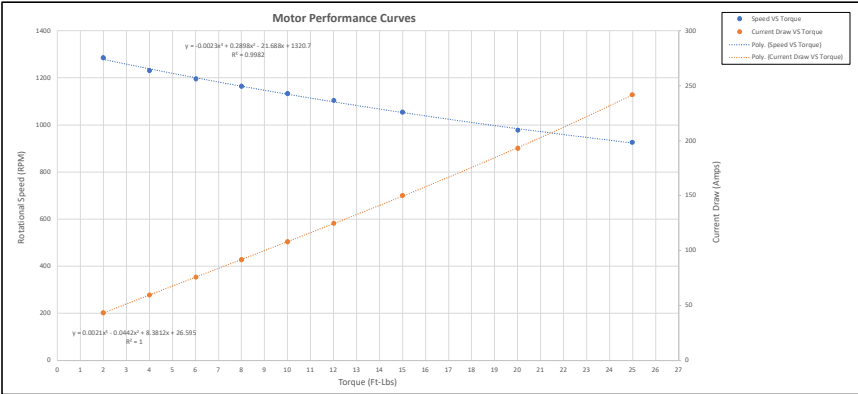
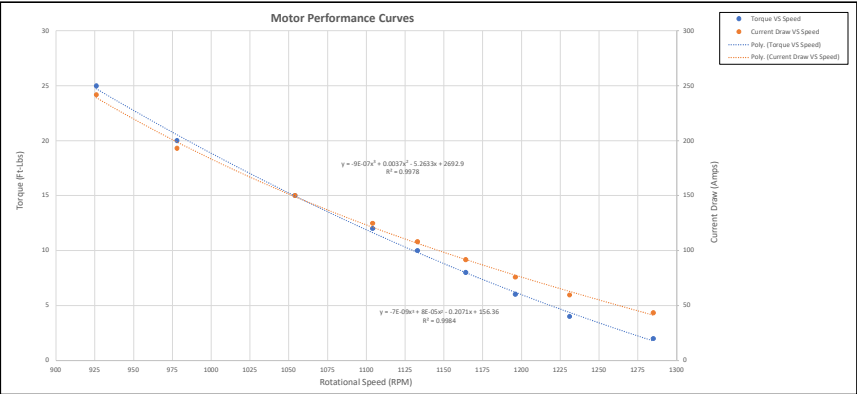
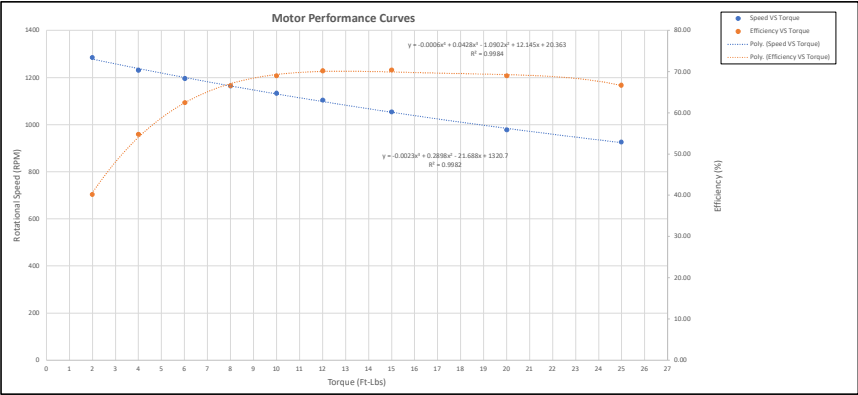
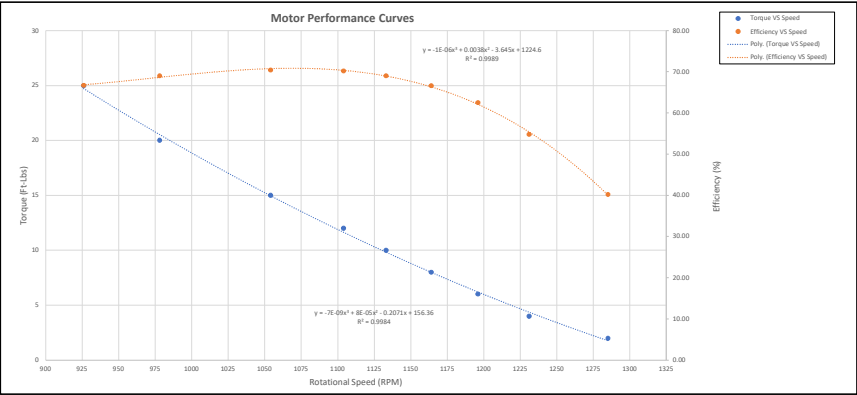
Engineering Performance Test Report
Performance Spec (PS) Number: 5
System Voltage [V]: 24 - (V ± 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
2.02	1388	23.6	24.6	13	15.14	39.74	1.04	0.53	51.20
4.01	1343	23.4	42	12.9	15.08	57.08	1.56	1.02	65.00
5.99	1303	23.1	59.4	12.8	15.15	74.55	2.1	1.49	70.90
7.99	1267	22.8	77.1	12.8	15.14	92.24	2.62	1.93	73.60
10	1225	22.6	95.4	12.7	15.15	110.55	3.14	2.33	74.20
12.01	1190	22.3	114.4	12.6	15.07	129.47	3.67	2.72	74.10
14.98	1144	21.8	144.6	12.6	15.08	159.68	4.47	3.26	73.00
20.02	1059	21	198.1	12.5	15.11	213.21	5.83	4.04	69.30



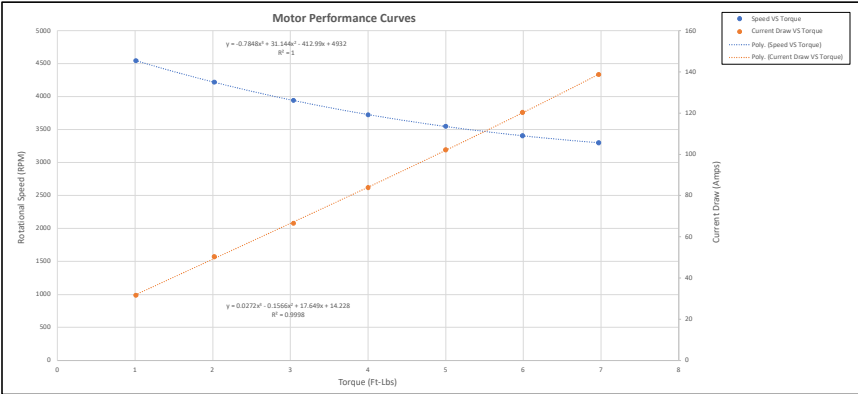
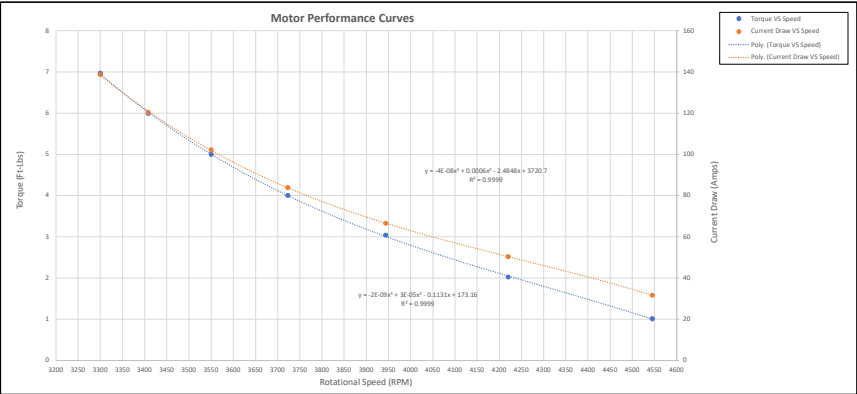
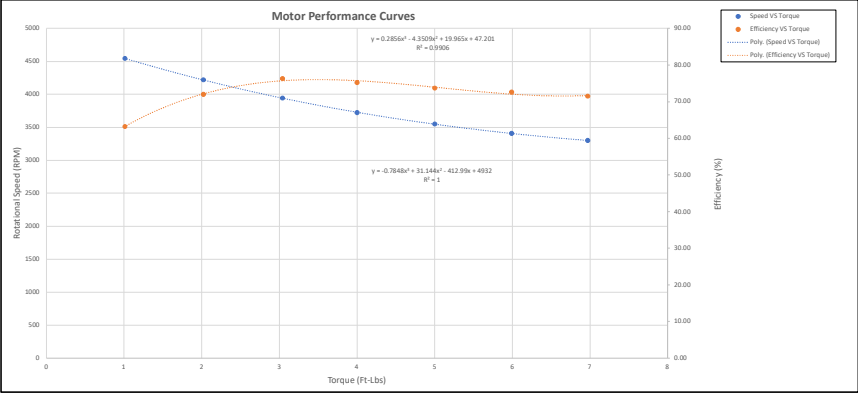
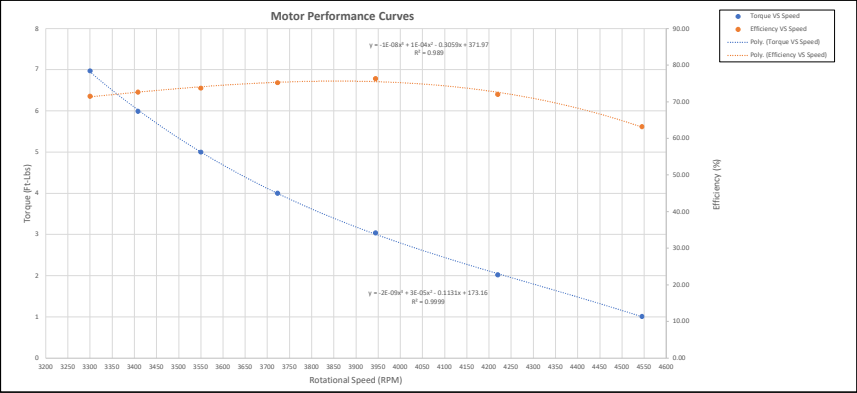
Engineering Performance Test Report
Performance Spec (PS) Number: 5
System Voltage [V]: 24 - (V ± 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
1.99	1285	23.7	23.1	17.6	20.15	43.25	1.21	0.49	40.20
4	1231	23.5	29.4	17.4	20.14	59.54	1.71	0.94	54.90
6.02	1196	23.2	35.6	17.3	20.14	75.74	2.19	1.37	62.50
8	1164	22.9	41.6	17.1	20.12	91.72	2.66	1.77	66.60
10	1133	22.7	47.9	16.9	20.12	108.02	3.13	2.16	69.00
12.01	1104	22.4	54.6	16.8	20.15	124.75	3.6	2.52	70.20
15	1054	22	66	16.6	20.09	150.09	4.28	3.01	70.40
20.01	978	21.4	87.1	16.4	20.04	193.14	5.4	3.73	69.00
24.98	926	20.7	104.4	17.3	20.36	241.76	6.6	4.41	66.70



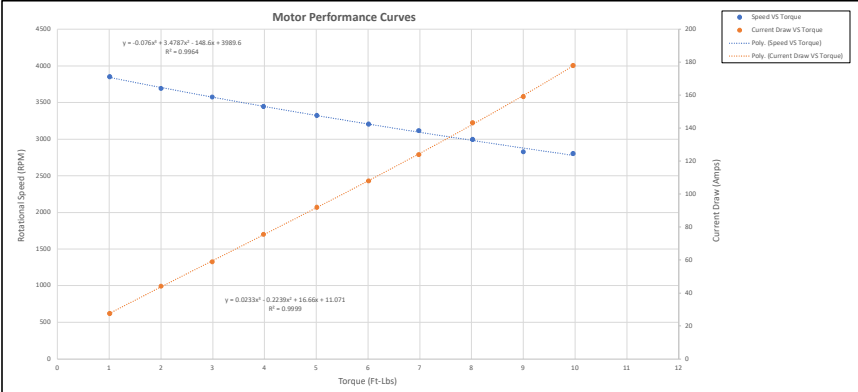
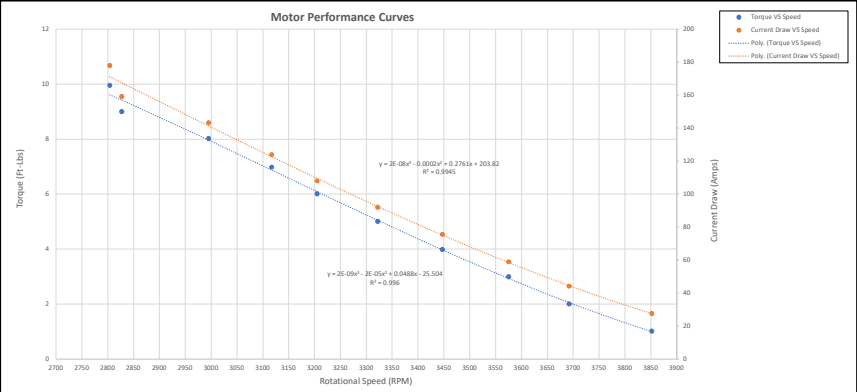
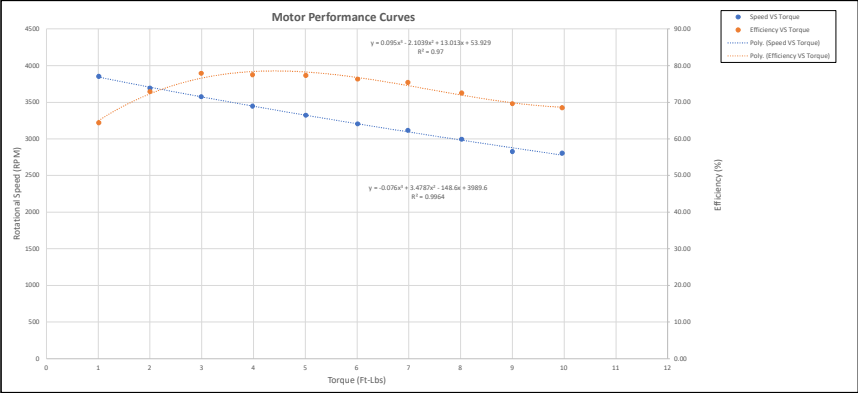
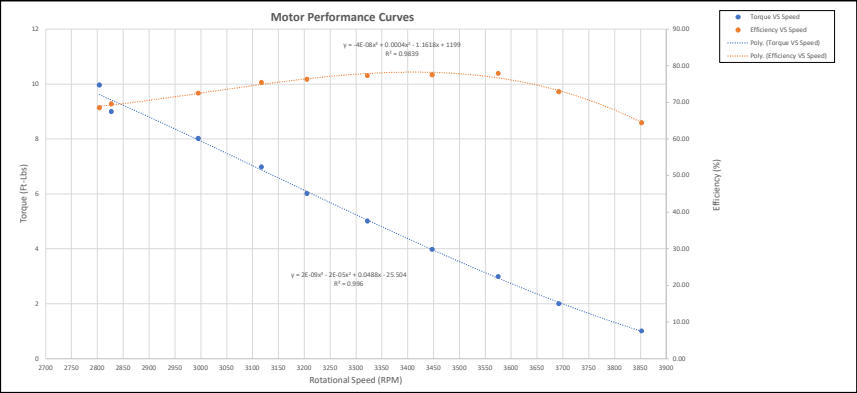
Engineering Performance Test Report
Performance Spec (PS) Number: 5
System Voltage [V]: 36 - (V * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage [Volts]	Armature Current [Amps]	Field Voltage [Volts]	Field Current [Amps]	Total Current [Amps]	Power In [Horsepower]	Power Out [Horsepower]	Efficiency (%)
1.01	4545	35.5	28.7	2.8	2.93	31.63	1.38	0.87	63.20
2.02	4220	35.3	47.4	2.8	2.94	50.34	2.25	1.62	72.00
3.04	3944	35	63.5	2.8	3	66.5	2.99	2.28	76.30
4	3723	34.7	81	2.8	2.89	83.89	3.78	2.84	75.20
5	3550	34.4	99.3	2.8	2.91	102.21	4.59	3.38	73.70
5.99	3498	34	117.3	2.8	3.01	120.31	5.35	3.89	72.60
6.97	3300	33.6	135.9	2.7	2.83	138.73	6.12	4.38	71.50



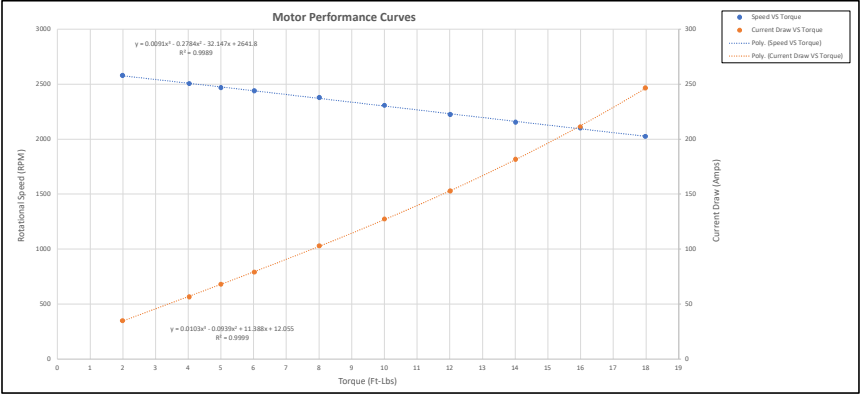
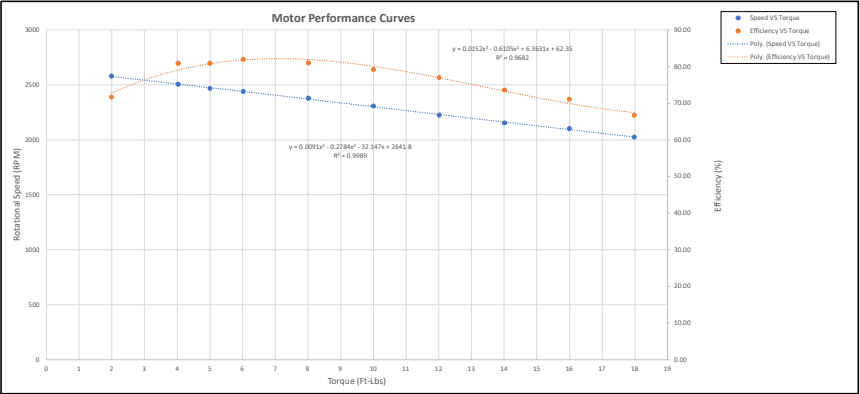
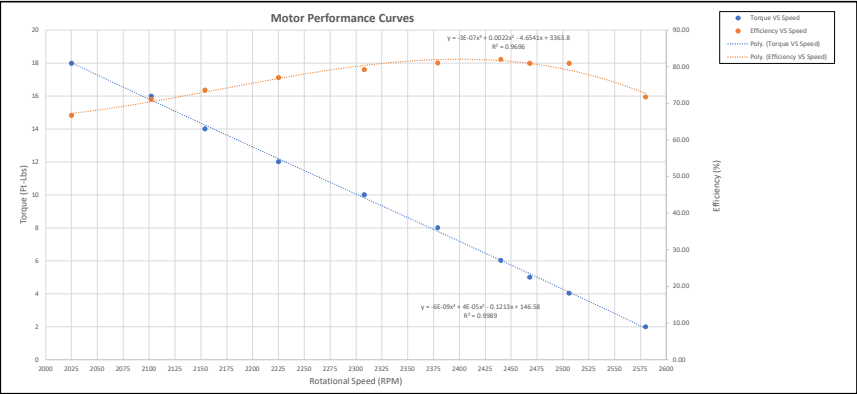
Engineering Performance Test Report
Performance Spec (PS) Number: 5
System Voltage (V): 36 - (V ± 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
1.01	3852	35.6	23.6	3.6	3.96	27.56	1.15	0.74	64.40
2	2692	35.4	48.2	3.6	3.94	44.14	1.93	1.4	72.30
2.99	3575	35.2	55	3.6	3.93	58.93	2.61	2.04	77.90
3.98	3447	34.9	71.6	3.6	3.99	75.59	3.37	2.61	77.50
5.01	3322	34.6	88	3.6	3.96	91.96	4.1	3.17	77.30
6.01	3295	34.3	104	3.6	4	108	4.8	3.66	75.30
6.98	3117	34	120	3.6	3.94	123.94	5.49	4.14	75.40
8.02	2995	33.6	139.4	3.6	3.9	143.3	6.3	4.57	72.50
9	2827	33.4	155.1	3.6	4.02	159.12	6.96	4.85	69.60
9.96	2804	33.2	174.1	3.6	3.89	177.99	7.76	5.32	68.50



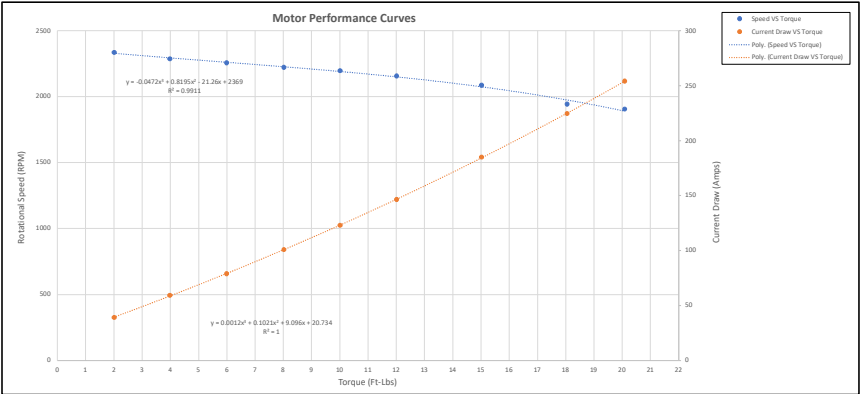
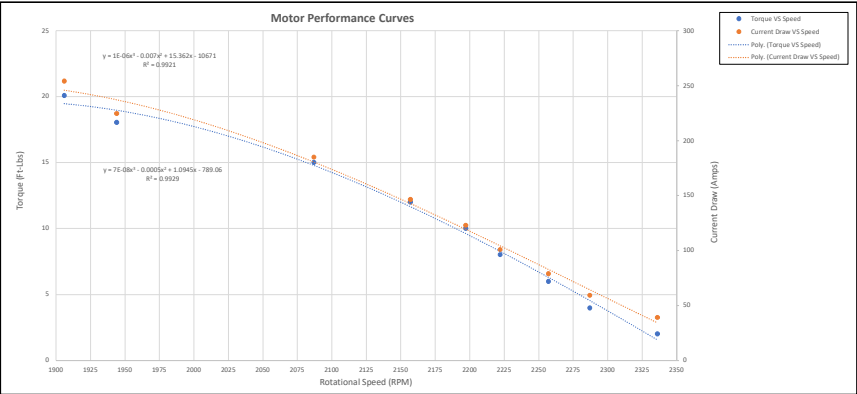
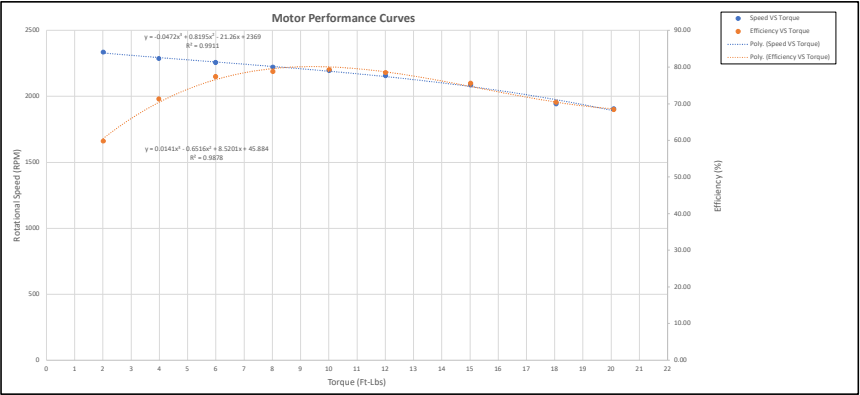
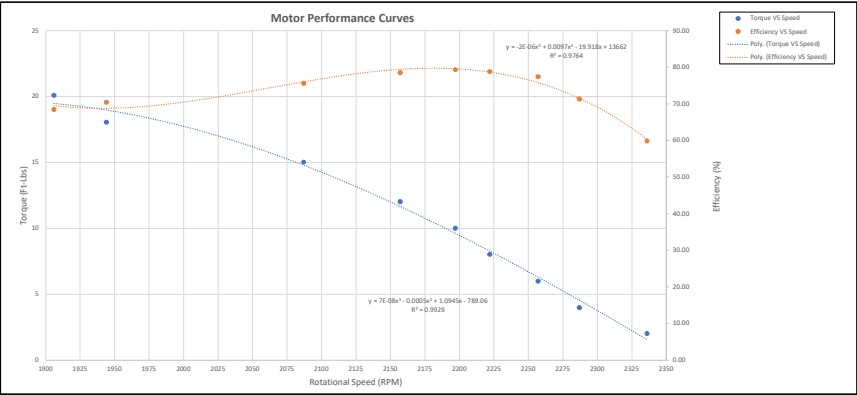
Engineering Performance Test Report
Performance Spec (PS) Number: 5
System Voltage (V): 36 - (V ± 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amper)	Field Voltage (Volts)	Field Current (Amper)	Total Current (Amper)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
1.99	2580	35.6	26.8	8.1	8.02	34.82	1.36	0.98	71.70
4.03	2506	35.9	48.4	8.1	8.07	56.47	2.30	1.92	80.90
5	2468	35.1	59.9	8.1	8.09	67.99	2.9	2.35	80.90
6.02	2440	34.9	71	8.1	8.03	79.03	3.41	2.8	82.00
8.01	2379	34.5	94.9	8.1	8.09	102.99	4.48	3.63	81.00
10	2308	34.2	119.3	8	8.03	127.32	5.55	4.39	79.20
12.01	2225	33.6	144.8	8	8.04	152.84	6.61	5.09	77.00
14.01	2154	33.2	173.6	8	8.11	181.71	7.8	5.75	73.60
15.99	2102	32.7	203.2	8	8.02	211.22	9	6.4	71.10
17.98	2025	32.3	238.5	8	8.09	246.59	10.4	6.93	66.70



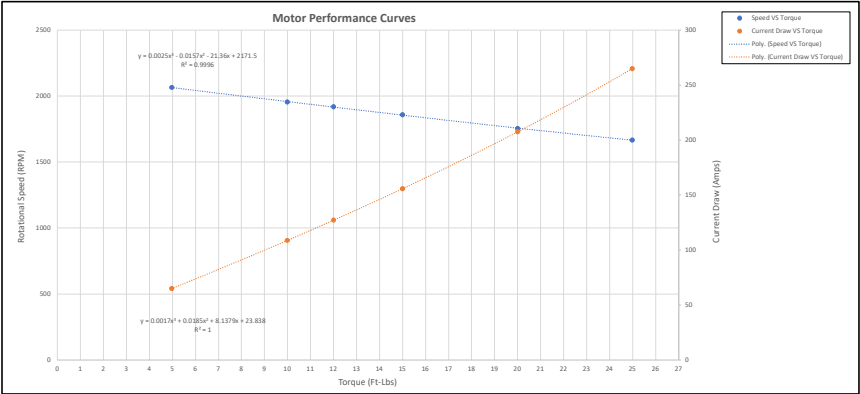
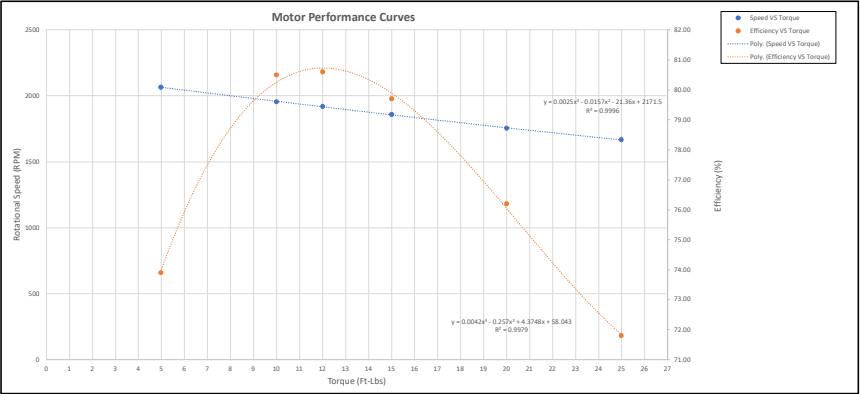
Engineering Performance Test Report
Performance Spec (PS) Number: 5
System Voltage [V]: 36 - (V ± 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage [V(AC)]	Armature Current [Amps]	Field Voltage [V(AC)]	Field Current [Amps]	Total Current [Amps]	Power In [Horsepower]	Power Out [Horsepower]	Efficiency (%)
2.01	2336	35.6	29.1	7.7	10.02	39.12	1.49	0.89	59.80
3.98	2287	35.2	49.3	7.8	10.01	59.31	2.43	1.73	71.36
5.99	2257	35	68.8	7.8	10.05	78.89	3.33	2.58	77.40
8.02	2222	34.5	90.8	7.8	10.02	100.82	4.31	3.39	78.80
10.01	2197	34.2	112.9	7.8	10.08	122.98	5.28	4.19	79.30
12.01	2157	33.8	136.5	7.8	9.96	146.46	6.29	4.93	78.50
15.02	2087	33.3	174.7	7.8	10.27	184.97	7.89	5.97	75.60
18.05	1944	32.6	214.7	7.9	9.92	224.62	9.5	6.68	70.40
20.09	1906	32.2	244.1	7.9	10.08	254.18	10.65	7.29	68.40



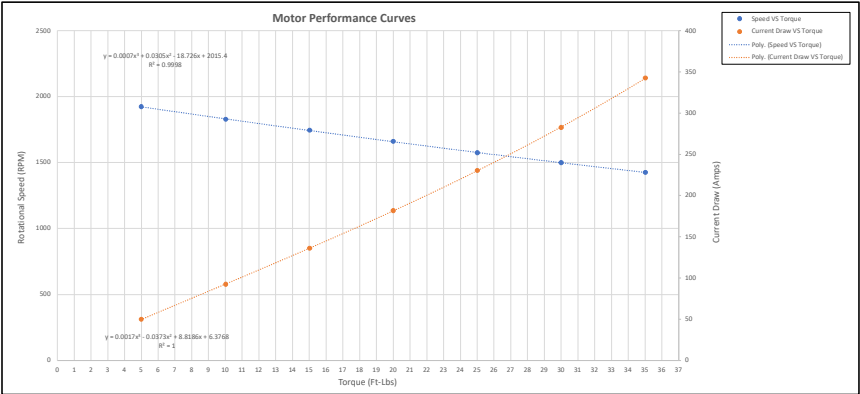
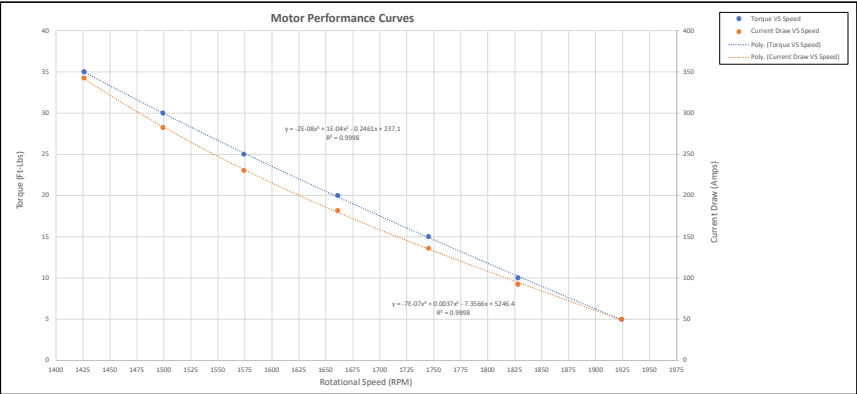
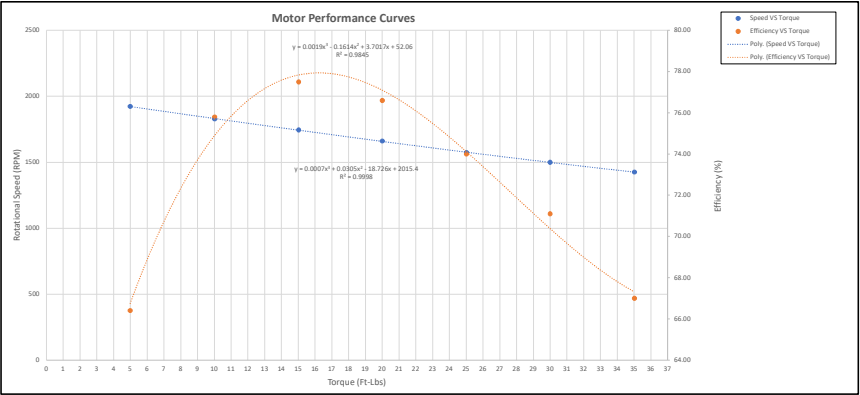
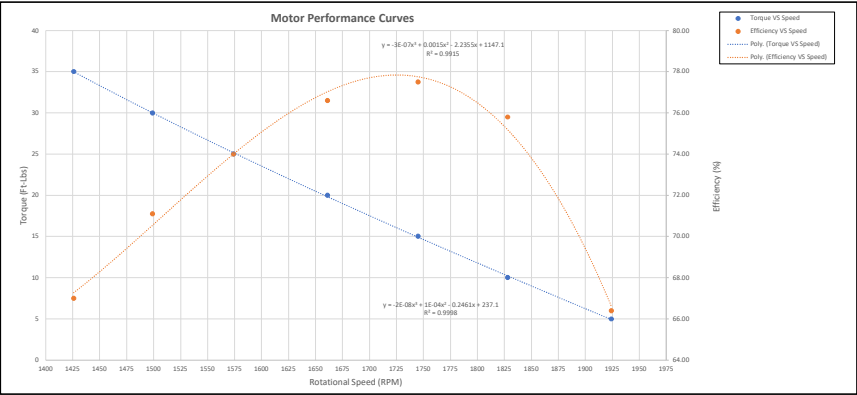
Engineering Performance Test Report
Performance Spec (PS) Number: 5
System Voltage (V): 36 - (1" ± 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Armature Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
4.97	2066	35.3	49.9	14.2	15.04	64.94	2.64	1.95	73.90
9.99	1955	34.6	93.6	14.3	15.08	108.68	4.62	3.72	80.50
12	1919	34.3	112	14.3	15.13	127.13	5.44	4.38	80.60
15	1859	33.8	140.6	14.4	15.08	155.68	6.66	5.31	79.70
20	1755	32.9	192.4	14.4	15.16	207.56	8.77	6.68	76.20
24.88	1667	32.1	250.1	14.5	14.88	264.98	11.04	7.93	71.80



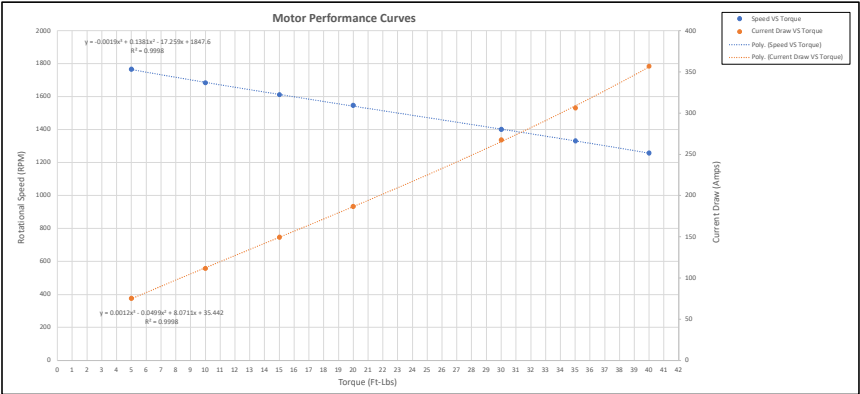
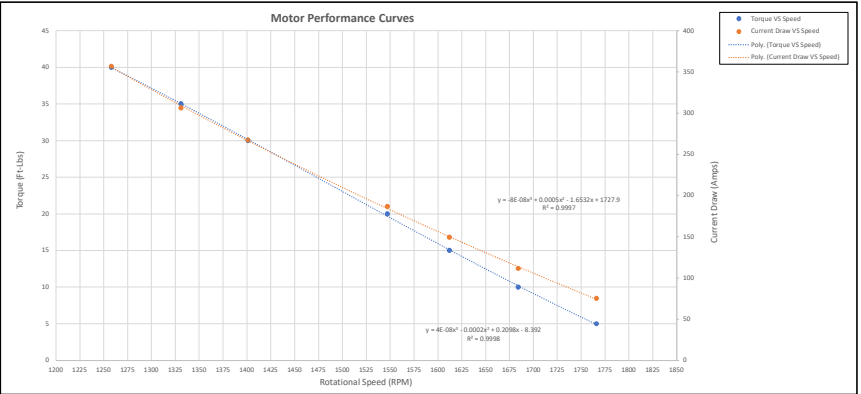
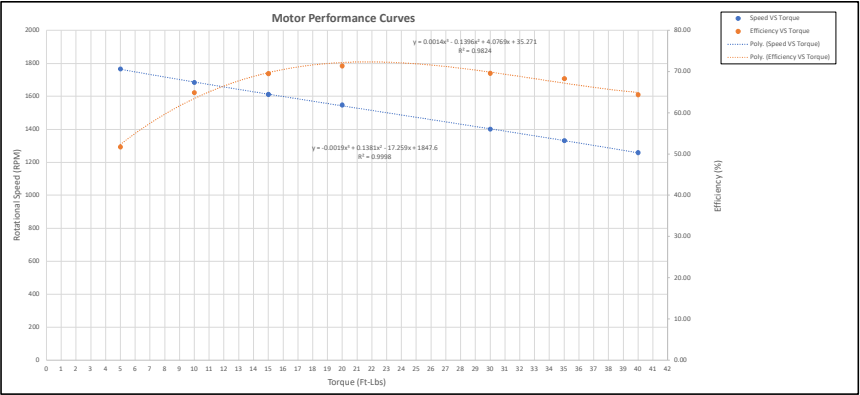
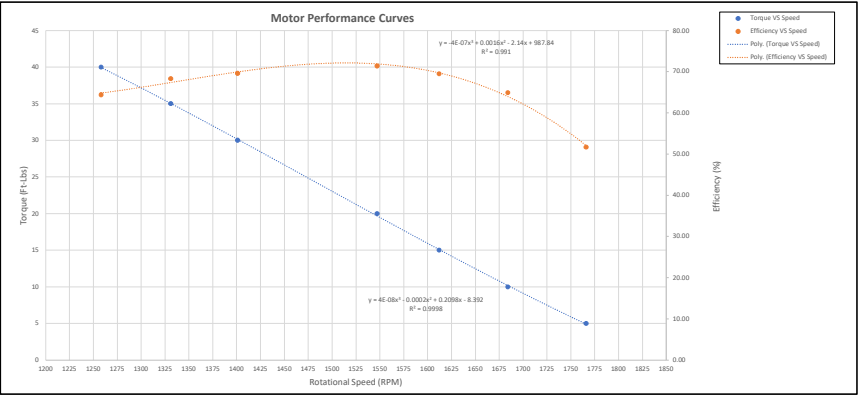
Engineering Performance Test Report
Performance Spec (PS) Number: 5
System Voltage (V): 36 - (V * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
4.99	1924	35.3	47.1	19.2	2.75	49.85	2.75	1.83	66.40
10.02	1828	34.7	47.7	19.3	4.6	52.3	4.6	3.49	75.80
15.02	1745	34	129.7	19.5	6.44	136.14	6.44	4.99	77.50
20	1661	33.3	173.5	19.6	8.26	181.76	8.26	6.33	76.60
25.01	1574	32.5	220.3	19.8	10.12	230.42	10.12	7.49	74.00
30	1499	31.7	270.5	19.9	12.04	282.54	12.04	8.56	71.10
35.02	1426	31	328.4	20.1	14.19	342.59	14.19	9.51	67.00



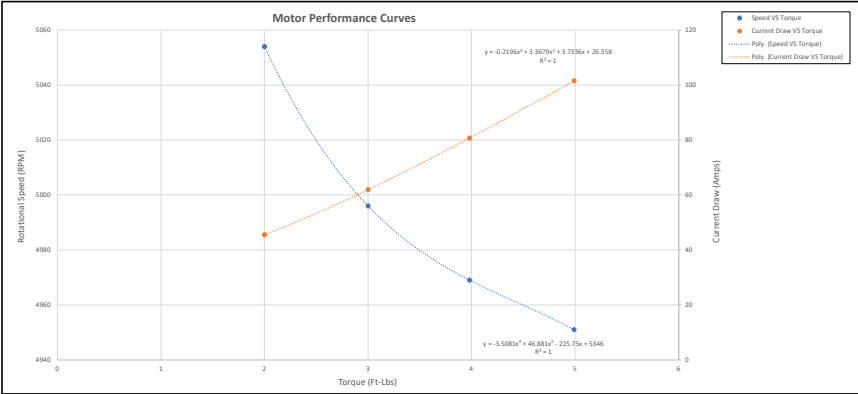
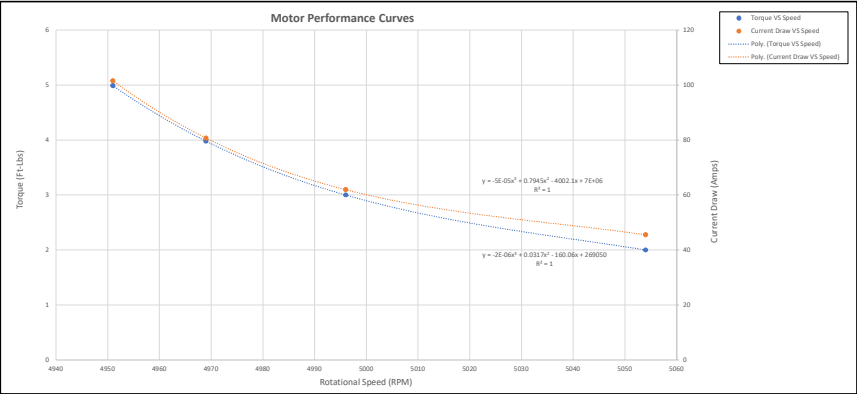
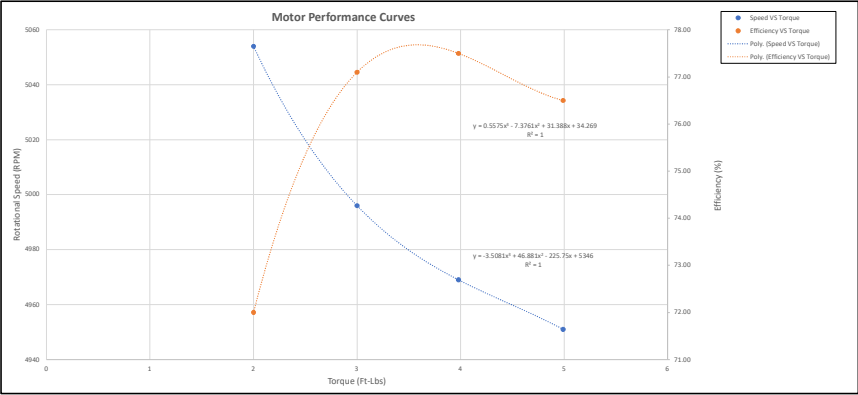
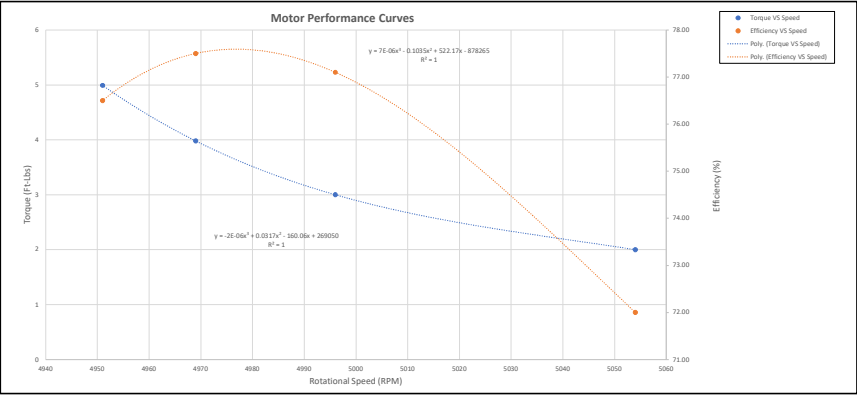
Engineering Performance Test Report
Performance Spec (PS) Number: 5
System Voltage [V]: 36 - (V * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
5	1766	35.3	45.2	27.6	29.97	75.17	3.25	1.68	51.70
10	1694	34.8	41.6	28.3	29.94	111.54	4.94	3.21	64.90
15.01	1612	34.2	119.4	29	29.97	149.37	6.63	4.61	69.50
19.99	1547	33.6	156.8	29.7	29.99	186.79	8.24	5.89	71.40
30.01	1401	32.3	237.5	30.3	29.82	267.32	11.51	8.01	69.60
35.02	1331	31.7	276.4	31	29.89	306.29	12.90	8.88	68.30
40	1258	31	327	31.6	30	357	14.87	9.58	64.40



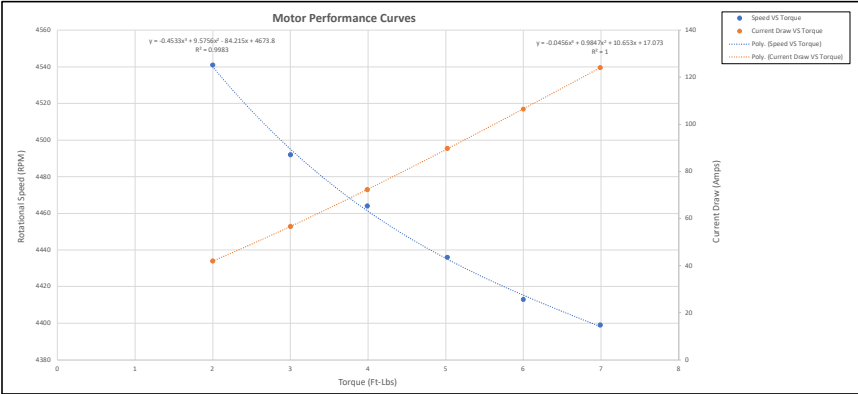
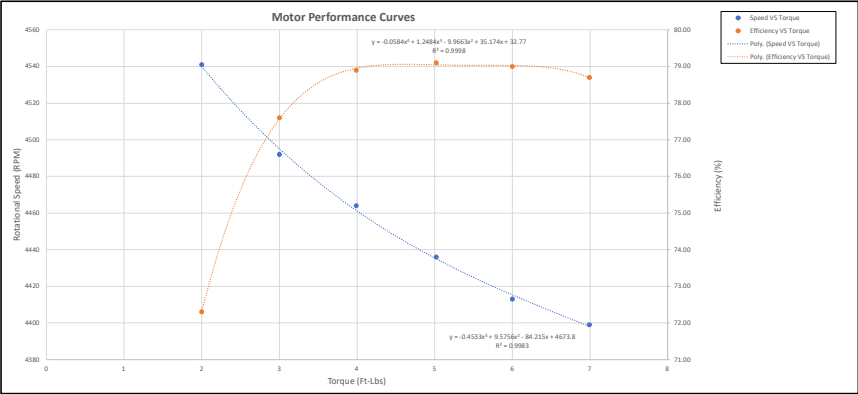
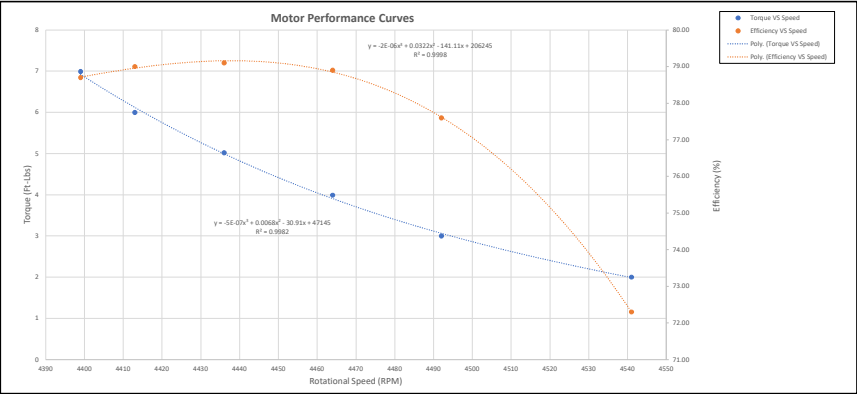
Engineering Performance Test Report
Performance Spec (PS) Number: 5
System Voltage [V]: 48 - (1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
2	5054	47.6	41.6	3.7	3.94	45.54	2.68	1.93	72.00
3	4996	47.3	58	3.7	3.94	61.94	3.7	2.85	77.10
3.98	4969	47	76.8	3.7	3.92	80.72	4.86	3.77	77.50
4.99	4951	46.7	97.6	3.7	3.96	101.56	6.13	4.7	76.50



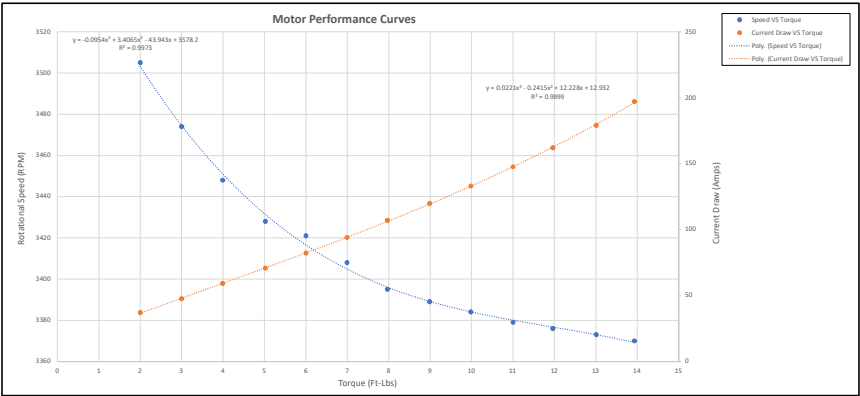
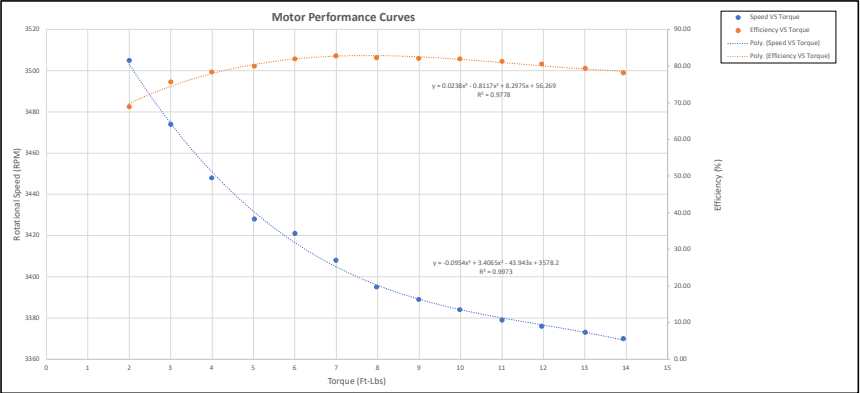
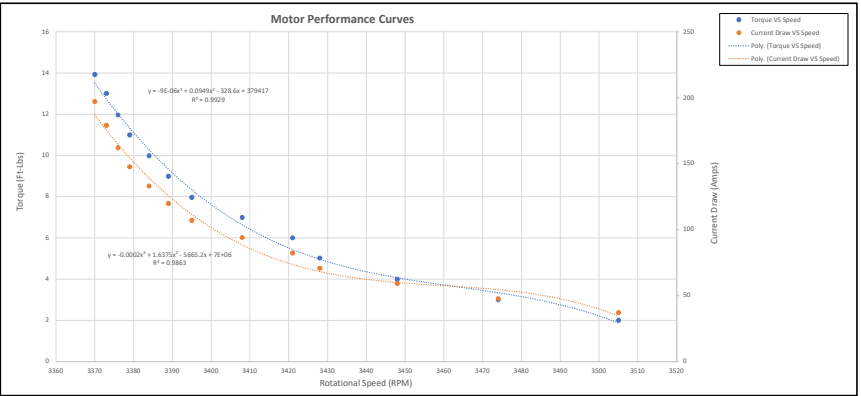
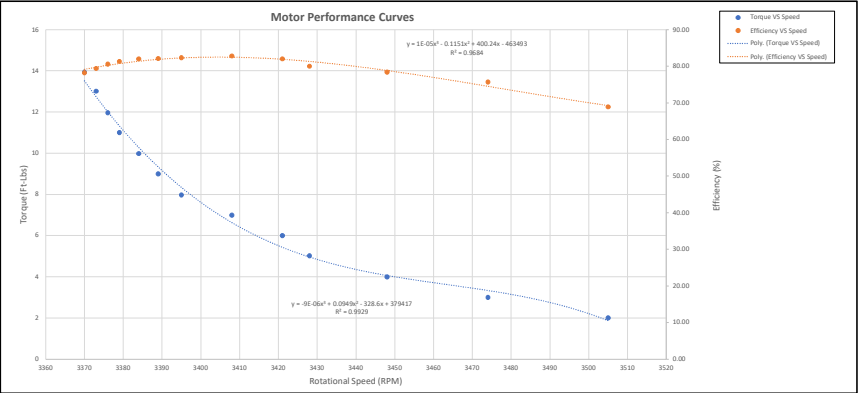
Engineering Performance Test Report
Performance Spec (PS) Number: 5
System Voltage [V]: 48 - (1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amper)	Field Voltage (Volts)	Field Current (Amper)	Total Current (Amper)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
2	4541	47.7	37	4.4	4.97	41.97	2.4	1.73	72.30
3	4492	47.4	51.7	4.4	4.94	56.64	3.31	2.57	77.60
3.99	4464	47.2	67.3	4.4	5	72.3	4.29	3.39	78.90
5.02	4436	46.9	84.9	4.4	4.88	89.78	5.37	4.24	79.10
6	4413	46.7	101.5	4.4	4.95	106.45	6.38	5.04	79.00
6.99	4399	46.4	119.2	4.4	4.93	124.13	7.44	5.85	78.70



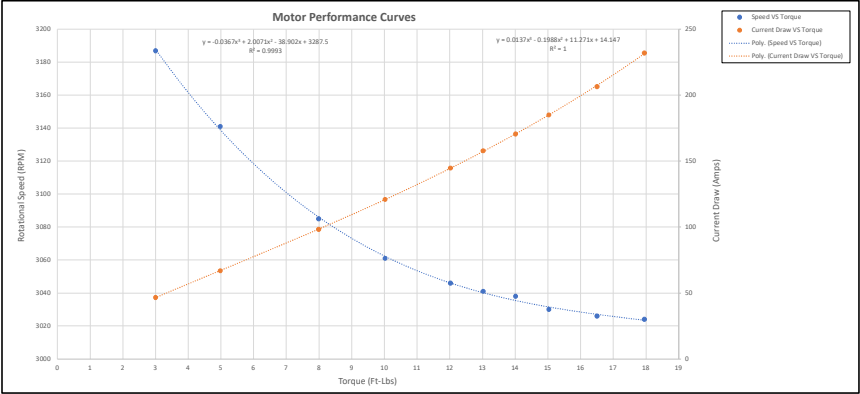
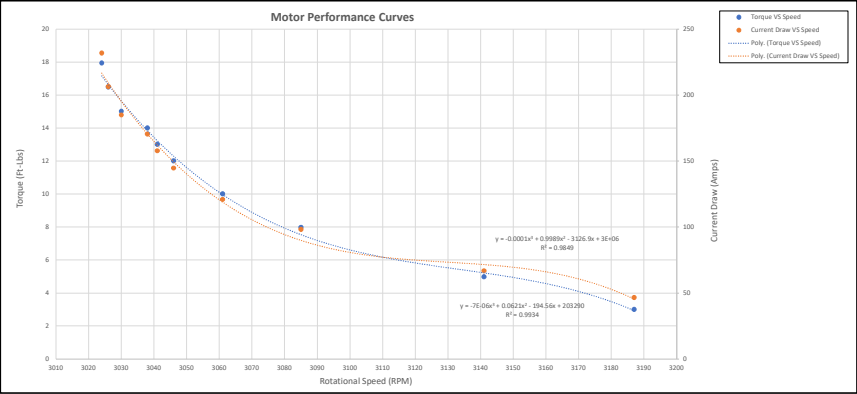
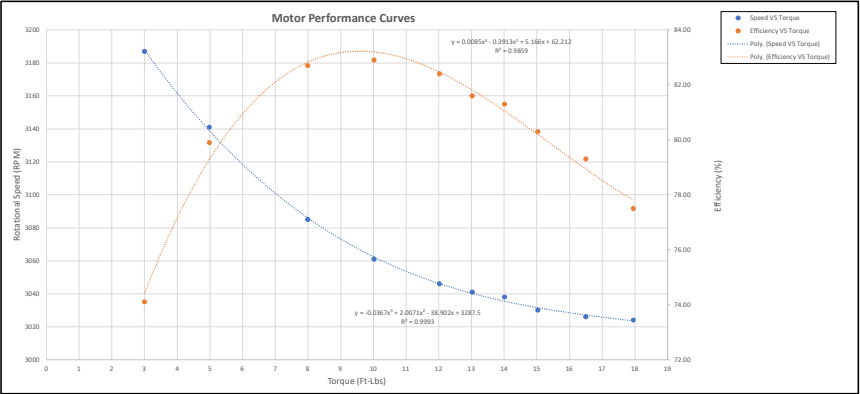
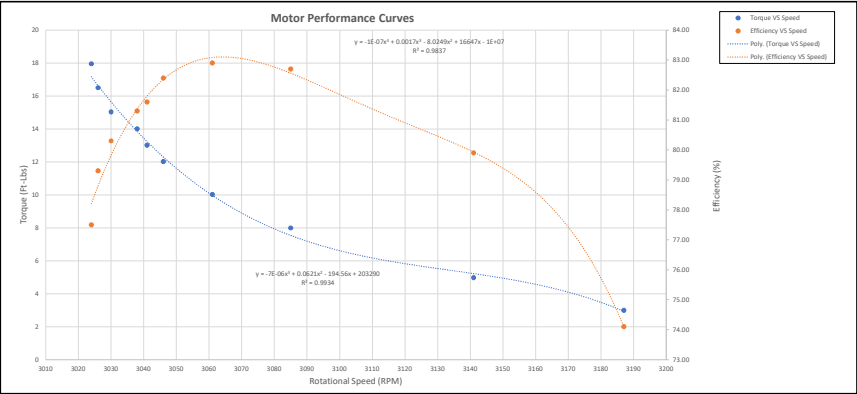
Engineering Performance Test Report
Performance Spec (PS) Number: 5
System Voltage [V]: 48 - (V ± 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amper)	Field Voltage (Volts)	Field Current (Amper)	Total Current (Amper)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
2	3505	47.8	29	7.1	8.06	37.06	1.94	1.33	68.90
3	3474	47.7	29.6	7.1	8.03	47.69	2.6	1.97	75.70
3.99	3448	47.4	51.1	7.2	8.05	59.15	3.33	2.61	78.40
5.02	3428	47.2	62.7	7.2	8.01	70.71	4.05	3.24	80.00
6	3421	47.1	74.2	7.2	8.11	82.31	4.76	3.9	82.00
6.99	3408	46.9	86	7.2	8.03	94.03	5.48	4.54	82.80
7.97	3395	46.7	99	7.2	8.05	107.05	6.28	5.15	82.30
8.99	3389	46.5	111.8	7.3	8.02	119.82	7.05	5.8	82.10
9.98	3384	46.3	125	7.3	8.04	133.04	7.84	6.43	82.00
11	3379	46.1	139.6	7.3	8.02	147.62	8.71	7.08	81.30
11.96	3376	45.8	154	7.3	8.02	162.02	9.54	7.69	80.60
13.01	3373	45.6	171.1	7.3	8	179.1	10.53	8.36	79.40
13.93	3370	45.3	189.1	7.4	7.98	197.08	11.56	9.03	78.20



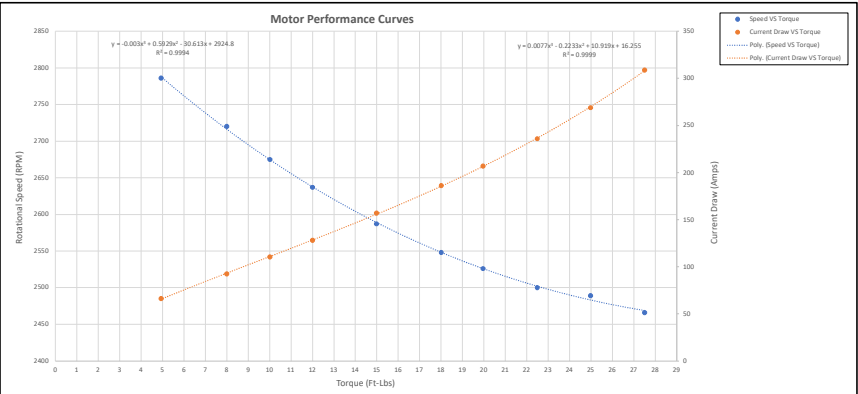
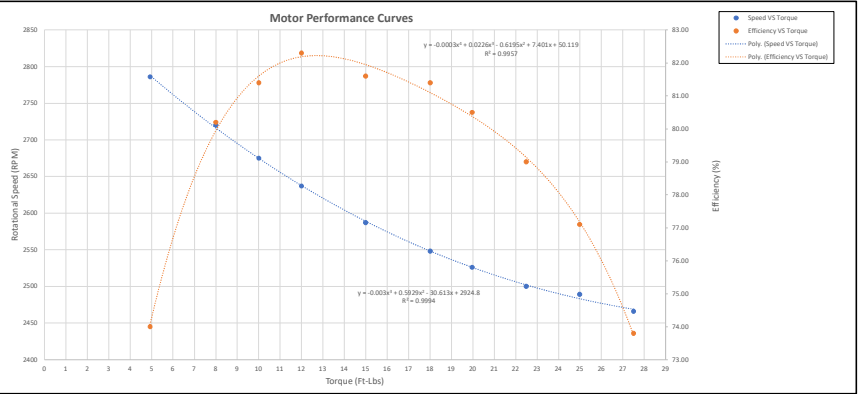
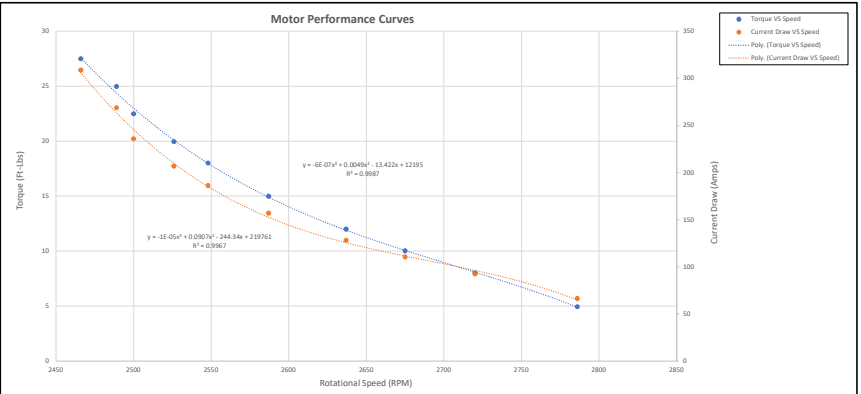
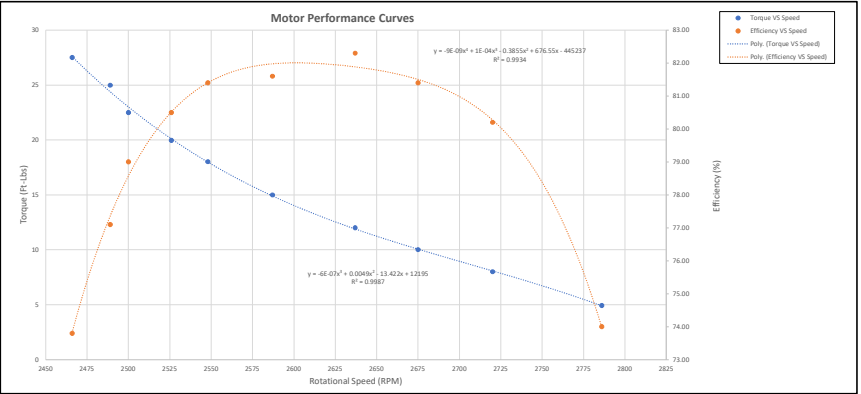
Engineering Performance Test Report
Performance Spec (PS) Number: 5
System Voltage [V]: 48 - (V ± 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
3	3187	47.7	36.6	9.1	10.06	46.66	2.46	1.82	74.10
4.98	3141	47.3	36.8	9.2	10.06	46.89	2.73	2.08	79.90
7.99	3085	46.9	88.3	9.2	9.99	98.29	5.68	4.69	82.70
10.02	3061	46.5	110.9	9.2	10.02	120.92	7.04	5.84	82.90
12.02	3046	46.2	134.7	9.3	10.04	144.74	8.46	6.97	82.40
13.02	3041	46	147.8	9.3	10.07	157.87	9.23	7.54	81.60
14.01	3038	45.7	160.7	9.3	9.91	170.61	9.97	8.11	81.30
15.03	3030	45.5	175.1	9.4	9.94	185.04	10.81	8.67	80.30
16.5	3026	45.2	196.4	9.4	10.08	206.48	12.03	9.54	79.30
17.95	3024	44.7	221.9	9.5	10.1	232	13.44	10.41	77.50



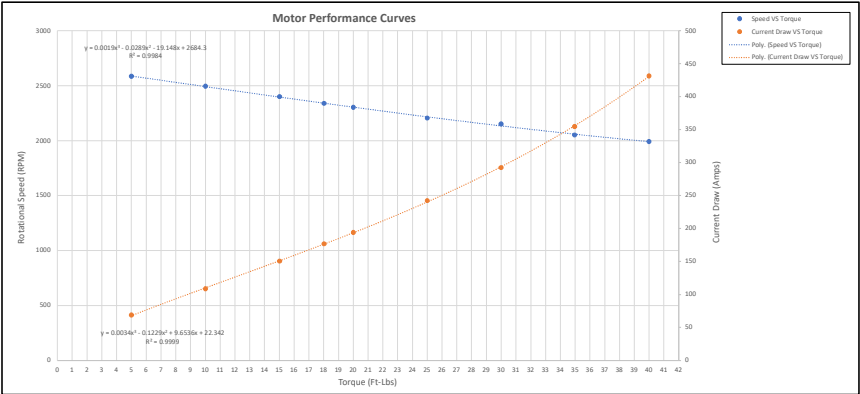
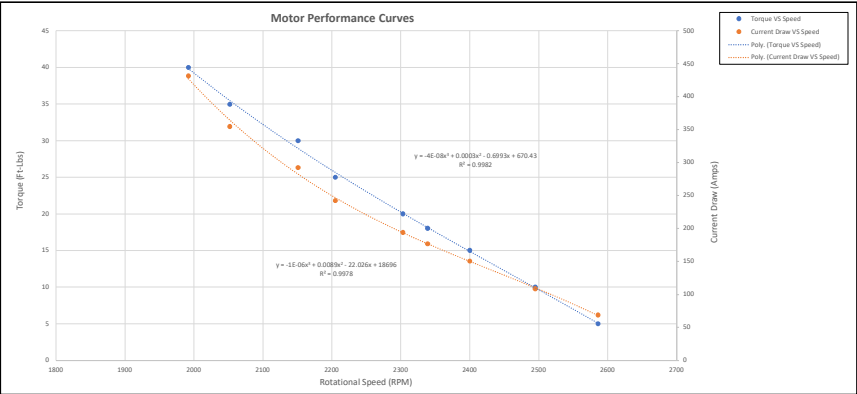
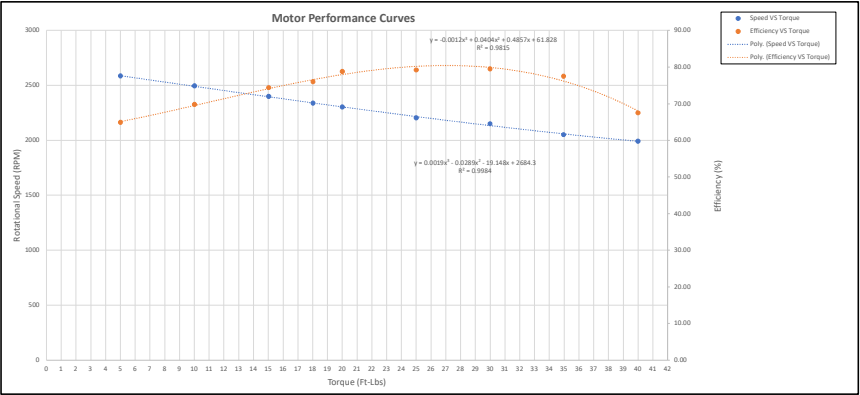
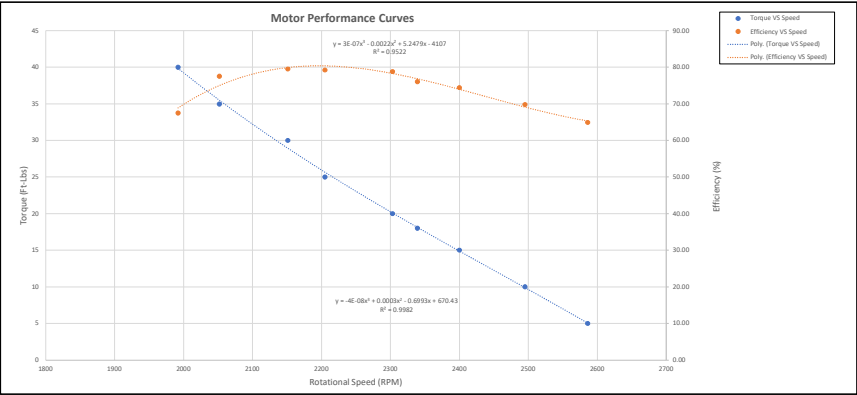
Engineering Performance Test Report
Performance Spec (PS) Number: 5
System Voltage [V]: 48 - (V ± 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Armature Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
4.93	2786	47.4	51.1	14.2	15.11	66.21	3.54	2.62	74.00
8	2720	47	77.4	14.3	15.09	92.43	5.17	4.14	80.20
10.01	2675	46.8	95.3	14.4	15.17	110.47	6.26	5.1	81.40
12	2637	46.5	112.9	14.5	15.11	128.01	7.33	6.03	82.30
14.99	2587	46.1	141.9	14.6	15.1	157	9.06	7.39	81.60
18.01	2548	45.6	171	14.6	15.09	186.09	10.74	8.74	81.40
19.96	2526	45.3	191.7	14.7	15.11	206.81	11.93	9.6	80.50
22.49	2500	44.8	220.8	14.8	15.09	235.89	13.55	10.71	79.00
24.98	2489	44.3	253.8	14.9	14.97	268.77	15.37	11.84	77.10
27.5	2466	43.7	293.9	15	15	308.9	17.5	12.91	73.80



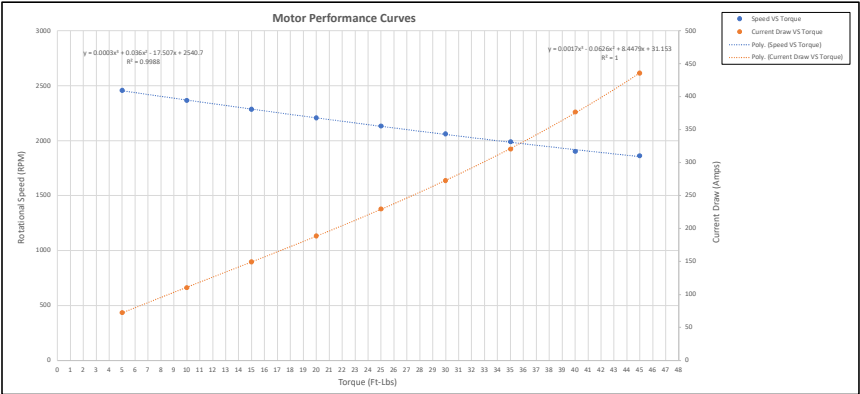
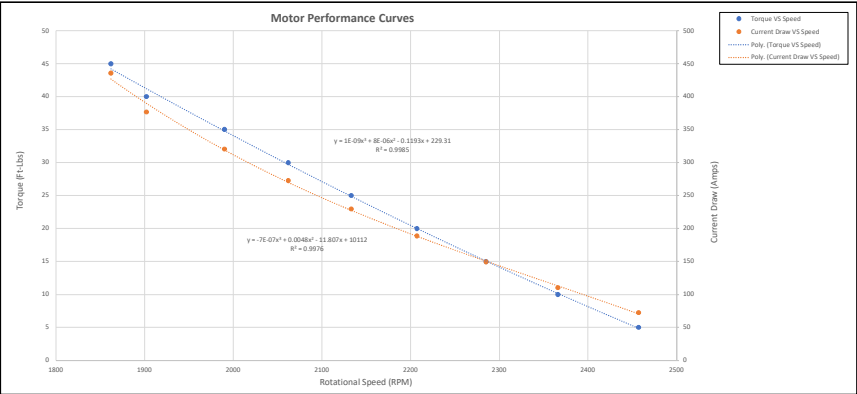
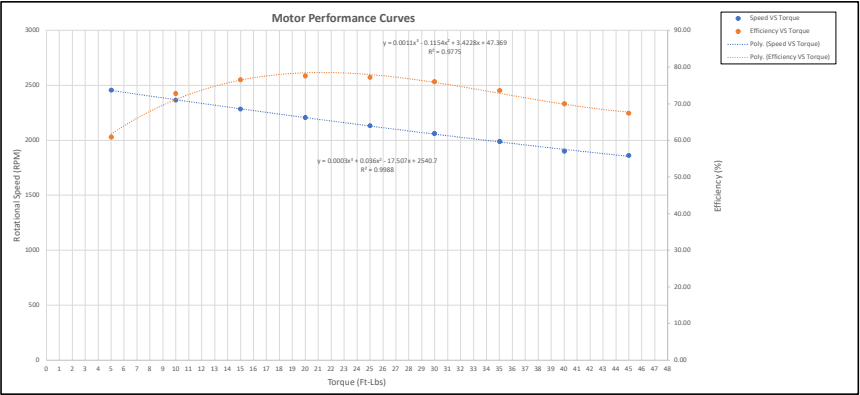
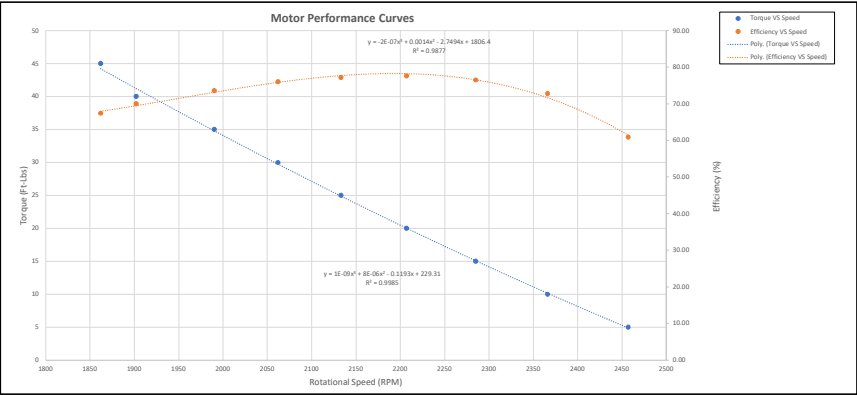
Engineering Performance Test Report
Performance Spec (PS) Number: 5
System Voltage [V]: 48 - (V * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amper)	Field Voltage (Volts)	Field Current (Amper)	Total Current (Amper)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
5	2586	47.4	48.6	18.8	20.21	68.81	3.64	2.46	64.90
10.01	2495	46.9	48.5	19.4	20.09	108.59	6.11	4.79	69.80
15.02	2400	46.2	130.5	19.3	20.18	150.68	8.63	6.86	74.40
18.02	2339	45.7	156.6	19.5	20.18	176.78	10.13	8.02	76.00
20	2303	45.4	174	19.8	20.06	194.06	11.13	8.77	78.80
25	2195	44.6	222.3	20	20.11	242.41	13.81	10.5	79.20
29.99	2151	43.8	272.4	20.3	20.06	292.46	16.51	12.28	79.50
34.96	2052	42.5	334.5	20.5	20.08	354.58	19.57	13.66	77.50
39.99	1992	41.5	411.4	20.7	20.12	431.52	23.37	15.17	67.50



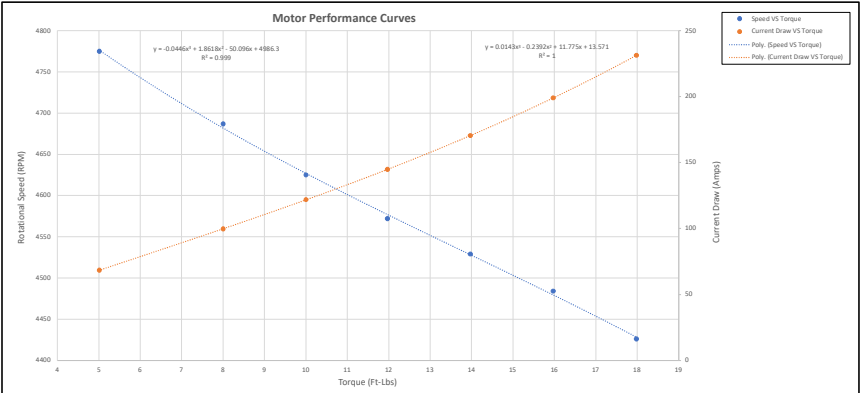
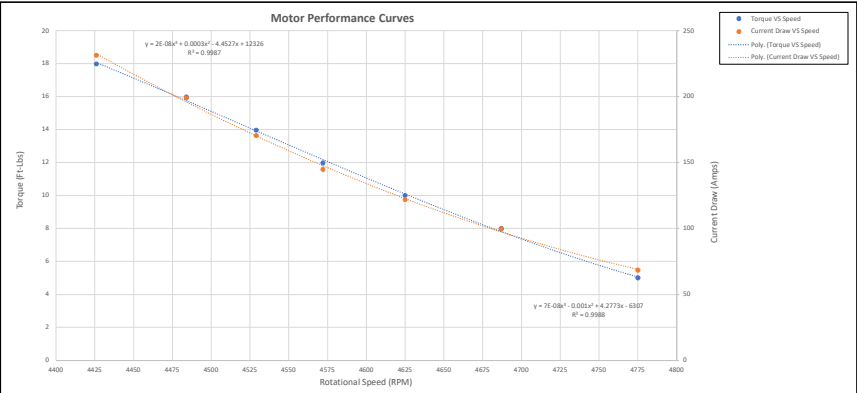
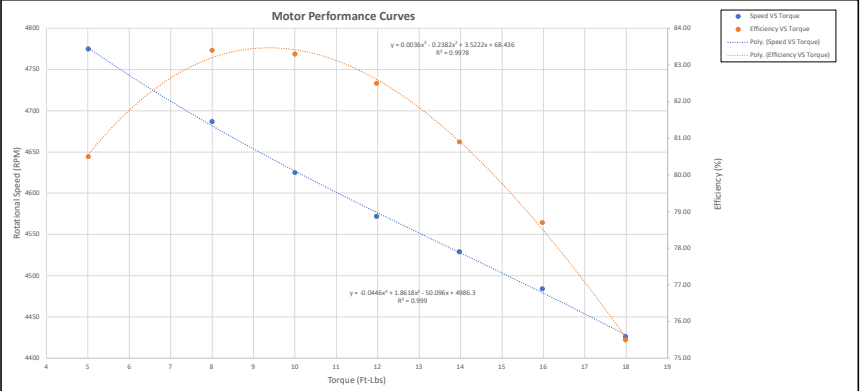
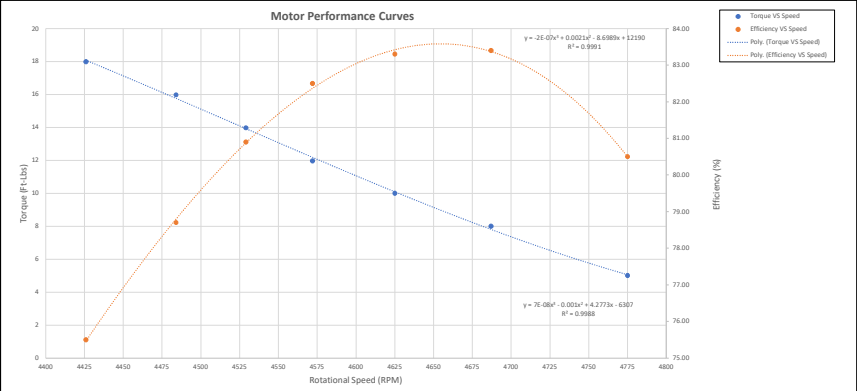
Engineering Performance Test Report
Performance Spec (PS) Number: 5
System Voltage [V]: 48 - (V * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
5.01	2457	47.5	47.4	24.9	25.04	72.44	3.85	2.34	60.90
9.99	2396	46.9	85.2	24.5	25.03	110.23	6.19	4.5	72.80
14.99	2385	46.3	124.4	24.1	25.02	149.42	8.53	6.52	76.50
20	2207	45.7	163.7	23.7	25.06	188.76	10.82	8.4	77.60
25	2133	45.1	204.7	23.3	24.93	229.63	13.15	10.15	77.20
29.98	2062	44.4	247.8	22.8	25.01	272.81	15.5	11.77	76.00
35.02	1990	43.6	295.6	22.3	24.88	320.48	18.03	13.27	73.60
40.02	1902	42.4	351.8	21.8	24.87	376.67	20.71	14.49	70.00
44.99	1862	41.7	410.6	21.3	25.06	435.66	23.68	15.95	67.40



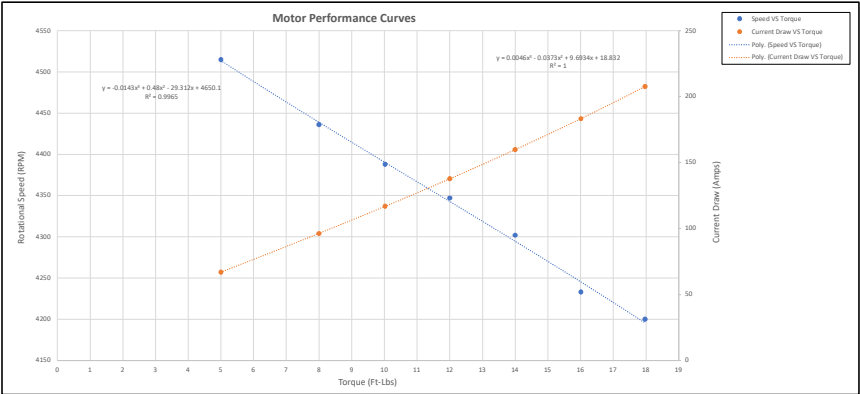
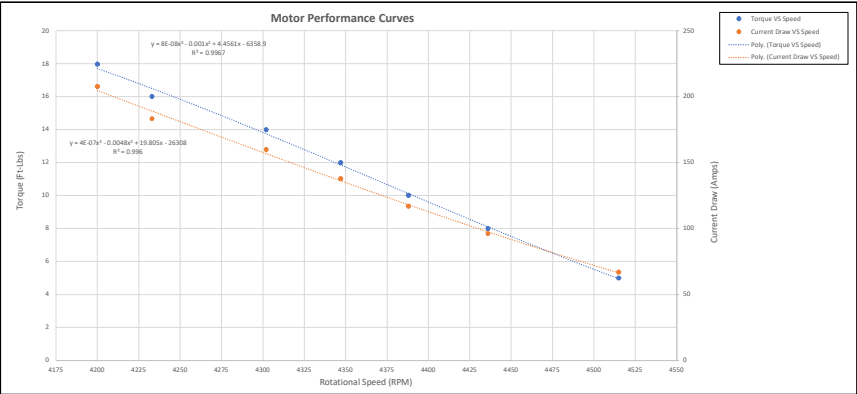
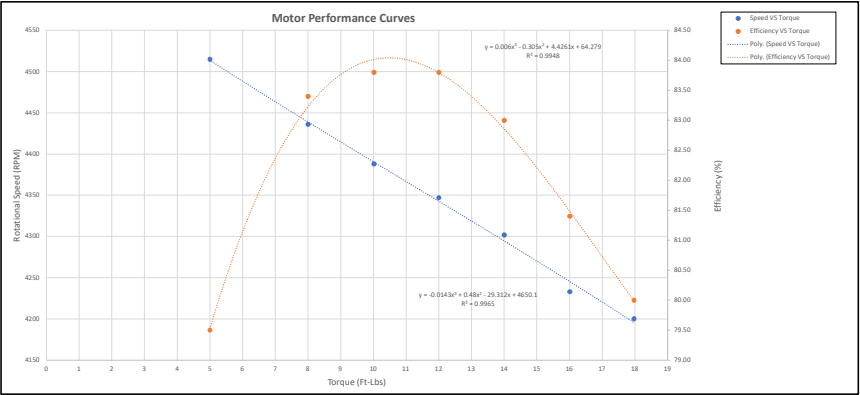
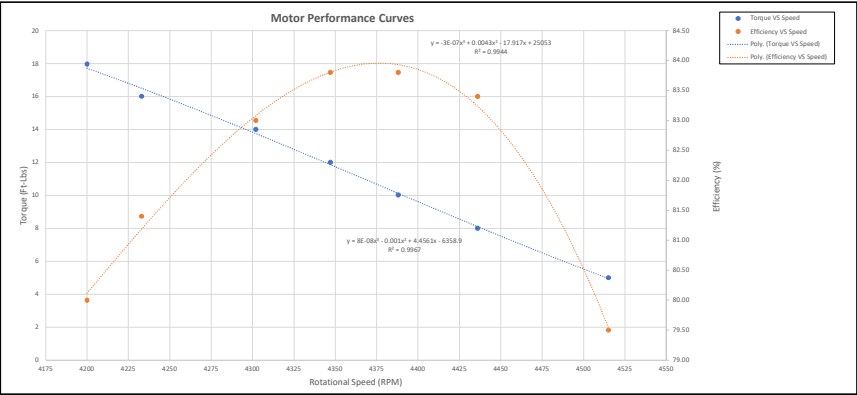
Engineering Performance Test Report
Performance Spec (PS) Number: 5
System Voltage [V]: 72 - (V * 0.030)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
5.01	4775	70.9	58.4	8.6	9.99	68.39	5.56	4.55	80.50
8	4687	70.2	89.8	8.6	9.87	99.67	8.57	7.14	83.40
10	4625	69.7	111.8	8.7	10.1	121.9	10.57	8.8	83.30
11.97	4572	69.2	135	8.7	9.84	144.84	12.62	10.42	82.50
13.97	4529	68.7	160.5	8.7	9.94	170.44	14.89	12.04	80.90
15.97	4484	67.9	189	8.7	10.04	199.04	17.33	13.63	78.70
17.98	4426	67.3	221.2	8.9	10.15	231.35	20.07	15.15	75.50



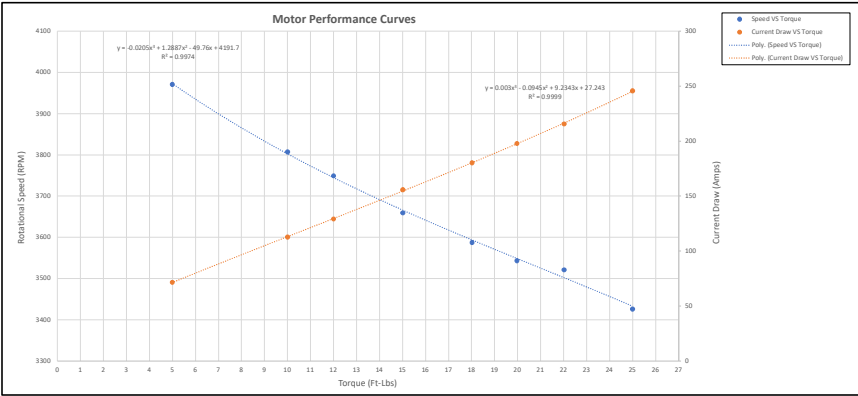
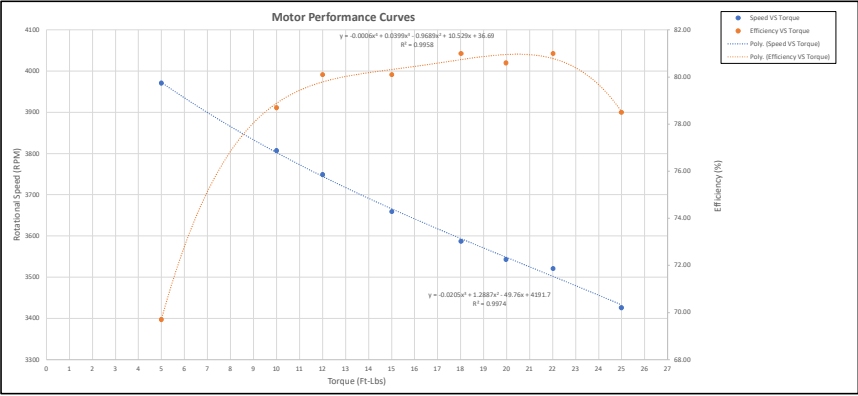
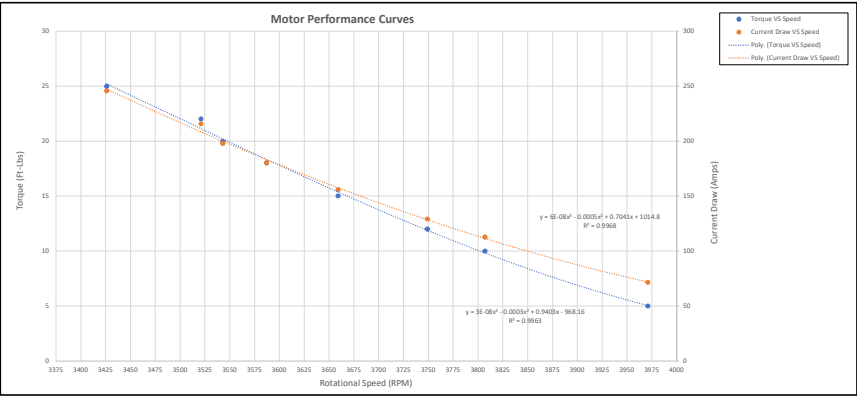
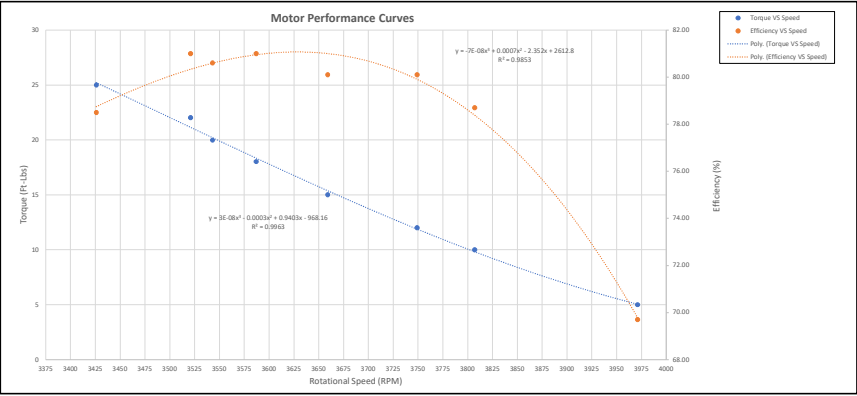
Engineering Performance Test Report
Performance Spec (PS) Number: 5
System Voltage [V]: 72 - (V ± 0.030)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amper)	Field Voltage (Volts)	Field Current (Amper)	Total Current (Amper)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
5	4515	70.9	55.2	9.8	11.77	66.97	5.41	4.3	79.50
8	4436	70.3	84.3	9.8	11.93	96.23	8.1	6.75	83.40
10.02	4388	69.9	105	9.8	11.95	116.95	10	8.37	83.80
12	4347	69.4	125.7	9.9	12.04	137.74	11.85	9.93	83.80
14	4302	68.9	147.9	9.9	11.98	159.88	13.83	11.47	83.00
16.01	4233	68.4	171.2	9.9	12.06	183.26	15.85	12.9	81.40
17.97	4200	67.8	196.1	10	11.62	207.72	17.98	14.37	80.00
20.02	4099	67.2	224.4	10.1	12.18	236.58	20.37	15.62	76.70
22	3988	66.6	252.7	10.3	12.26	264.96	22.71	16.71	73.60



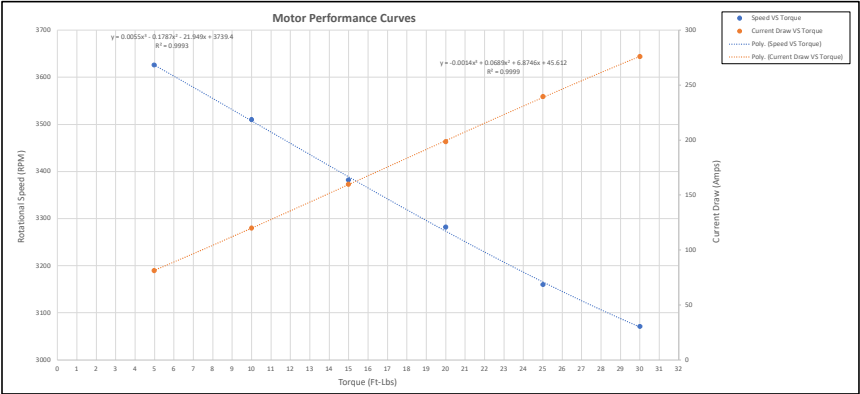
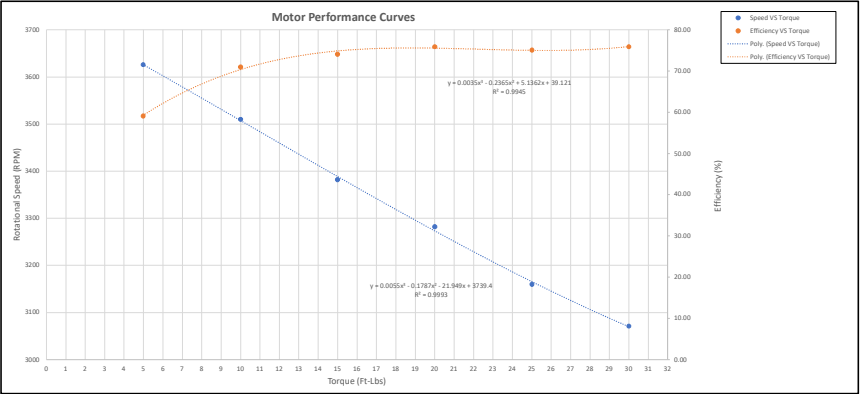
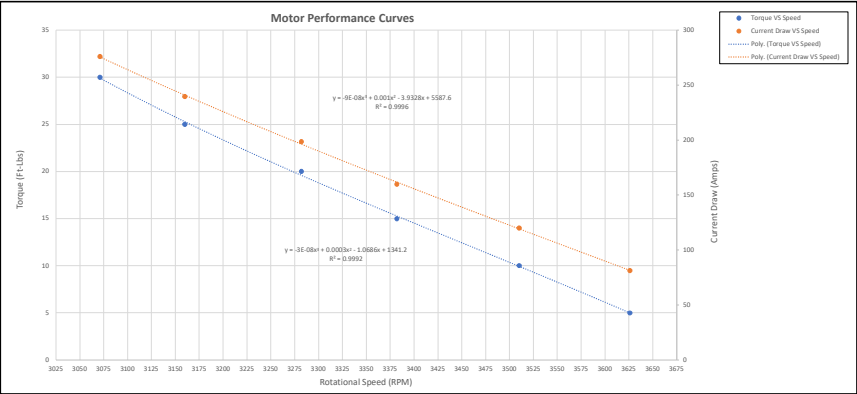
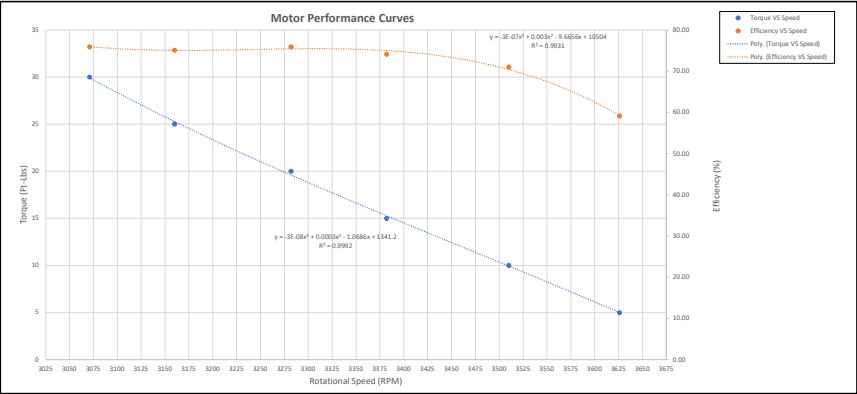
Engineering Performance Test Report
Performance Spec (PS) Number: 5
System Voltage [V]: 72 - (V * 0.030)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amper)	Field Voltage (Volts)	Field Current (Amper)	Total Current (Amper)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
4.99	3971	70.9	51.4	19.2	20.09	71.49	5.41	3.77	69.70
10	3807	70	52.6	19.3	20.13	112.73	9.21	7.25	78.70
12	3749	69.6	109	19.4	20.13	129.13	10.69	8.56	80.10
15.01	3659	68.9	135.6	19.4	20.09	155.69	13.05	10.46	80.10
18.02	3587	68.3	160	19.5	20.22	180.22	15.18	12.31	81.00
19.97	3543	68	177.4	19.6	20.19	197.29	16.71	13.47	80.60
22.02	3521	67.6	195.4	19.7	20.21	215.61	18.24	14.77	81.00
24.99	3426	66.9	225.6	19.9	20.09	245.69	20.76	16.3	78.50



Engineering Performance Test Report
Performance Spec (PS) Number: 5
System Voltage [V]: 72 - [V * 0.030]

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amper)	Field Voltage (Volts)	Field Current (Amper)	Total Current (Amper)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
4.98	3626	70.9	51.3	23.6	30	81.3	5.82	3.44	59.10
10	3510	70	50	24.2	29.98	119.98	8.42	6.08	71.00
14.99	3382	69.2	129.8	24.8	30	159.8	13.03	9.65	74.30
20	3282	68.4	168.6	25.4	29.96	198.56	16.47	12.5	75.90
25.01	3160	67.5	209.8	26	29.8	239.6	20.02	15.05	75.10
30	3073	66.8	246.3	26.6	29.68	275.98	23.1	17.84	75.90



Engineering Performance Test Report
Performance Spec (PS) Number: 5
System Voltage [V]: 72 - (V * 0.030)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
5	3449	70.9	51.2	35.8	40.07	91.27	6.78	3.28	48.40
9.99	3234	70.4	87.3	37.4	40.09	127.39	10.21	6.34	62.10
14.98	3221	69.2	124	39	40.1	164.1	13.6	9.19	67.60
19.99	3123	68.5	159.2	40.5	40.06	199.26	16.78	11.89	70.80
25	3010	67.5	198.9	42	40.23	239.13	20.26	14.33	70.70
30.01	2927	66.9	238.9	43.6	40.12	289.02	23.87	16.78	70.40
34.99	2863	66.4	284.6	45.1	40.18	304.78	25.97	19.08	73.50
40.07	2740	65.2	312.6	46.6	40.03	352.63	29.81	20.9	70.10

