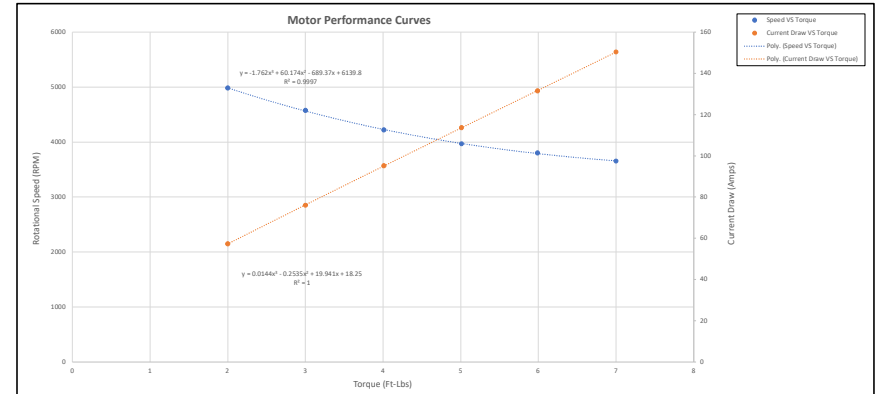
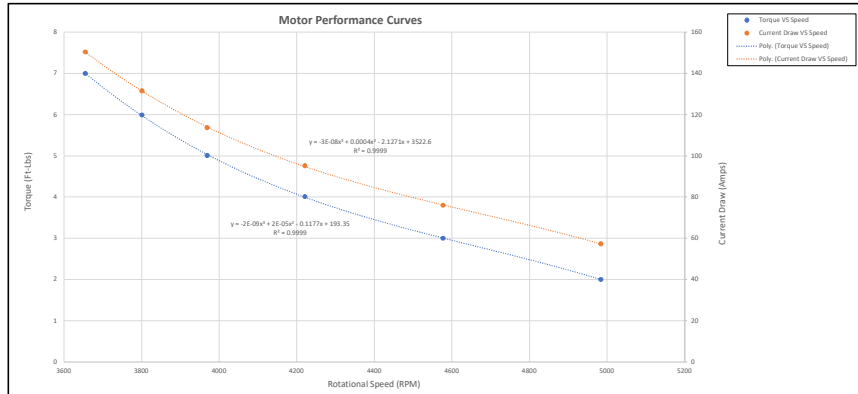
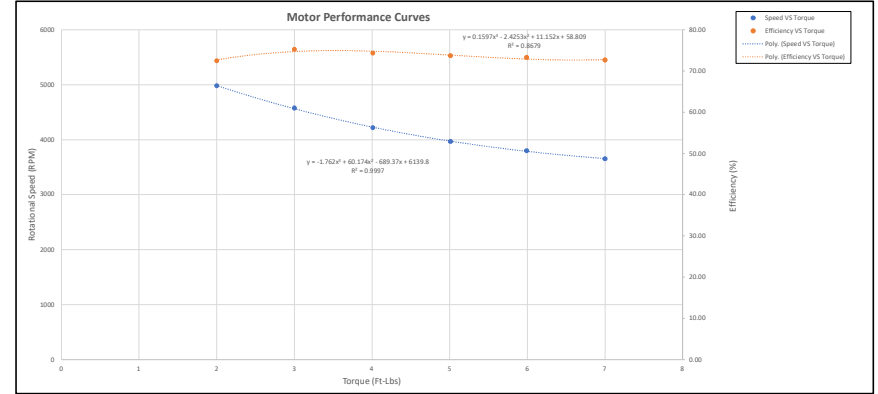
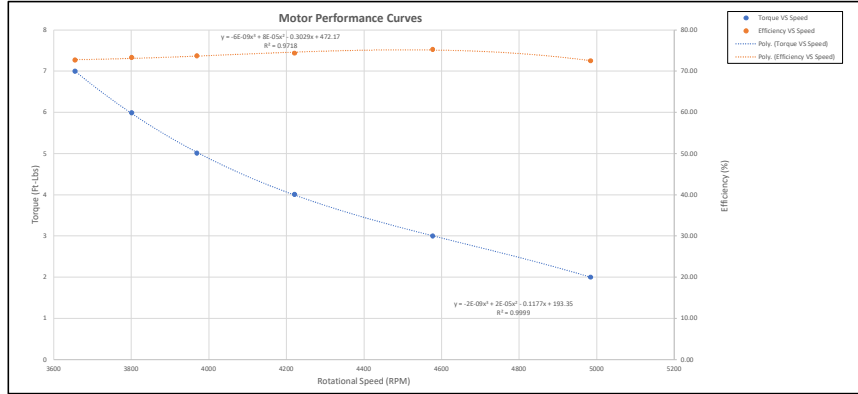


Engineering Performance Test Report

Performance Spec (PS) Number: 51

System Voltage (V): 36 - (1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Available Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
2	4984	35.2	55.4	3	1.89	57.29	2.62	1.9	72.52
3	4577	34.9	74.4	3	1.91	76.31	3.46	2.62	72.29
4.01	4221	34.6	93.3	3	1.88	95.18	4.33	3.22	74.36
5.01	3969	34.3	111.8	3	1.91	113.71	5.14	3.79	73.74
5.99	3801	34	129.6	3	1.92	131.52	5.92	4.34	73.31
7	3555	33.7	148.5	3.1	1.9	150.4	6.7	4.87	72.69

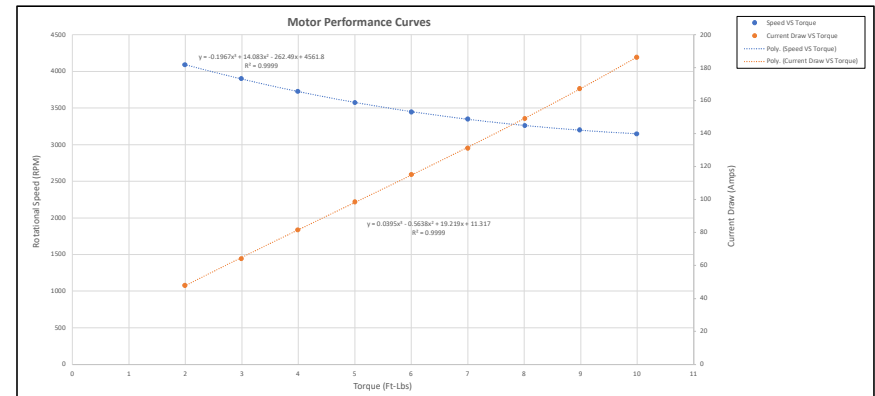
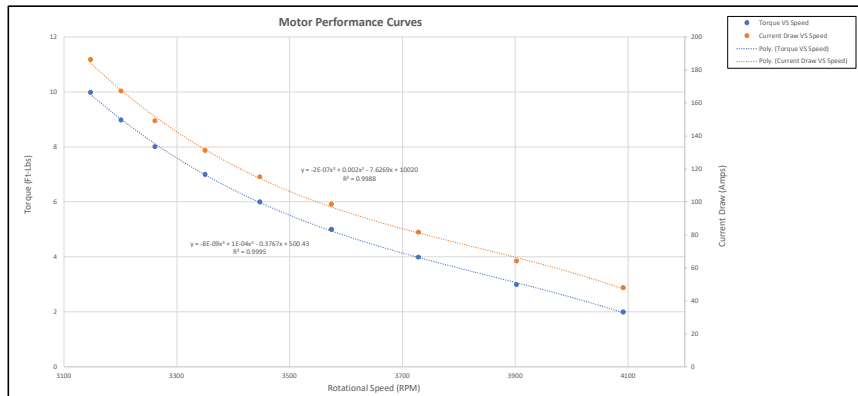
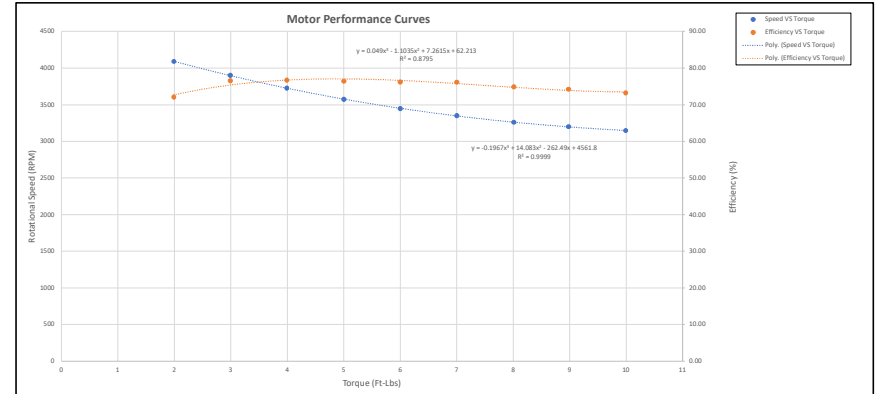
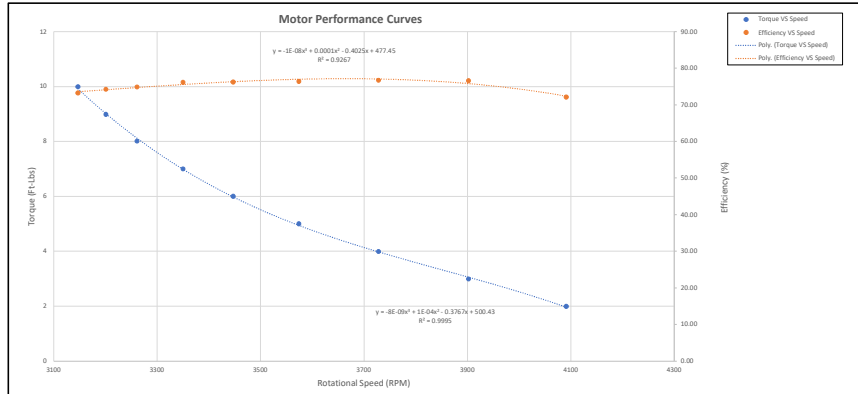


Engineering Performance Test Report

Performance Spec (PS) Number: 51

System Voltage (VS): 36 - (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 (%)
1.99	4091	35.4	45	4.5	2.94	47.94	2.15	1.55	72.09
2.99	3902	35.1	61.2	4.6	2.93	64.13	2.0	2.22	76.55
3.99	3728	34.8	78.7	4.6	2.92	81.62	3.69	2.83	76.69
5	3574	34.6	95.7	4.6	2.94	98.64	4.45	3.4	76.40
6	3447	34.3	112.2	4.6	3.01	115.21	5.17	3.94	76.21
7	3350	34	128.3	4.6	2.94	131.24	5.87	4.47	76.15
8.01	3261	33.8	146.3	4.6	2.87	149.17	6.64	4.97	74.85
8.98	3201	33.4	164.3	4.6	3.02	167.32	7.37	5.47	74.22
9.99	3147	33.1	183.4	4.6	2.93	186.33	8.18	5.99	73.23

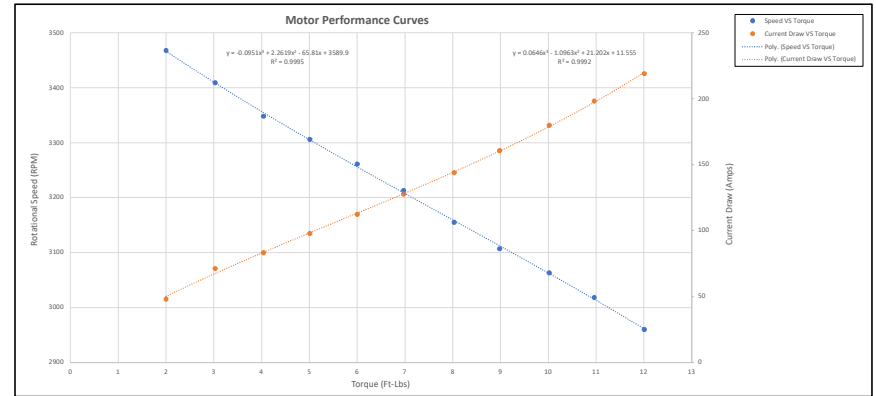
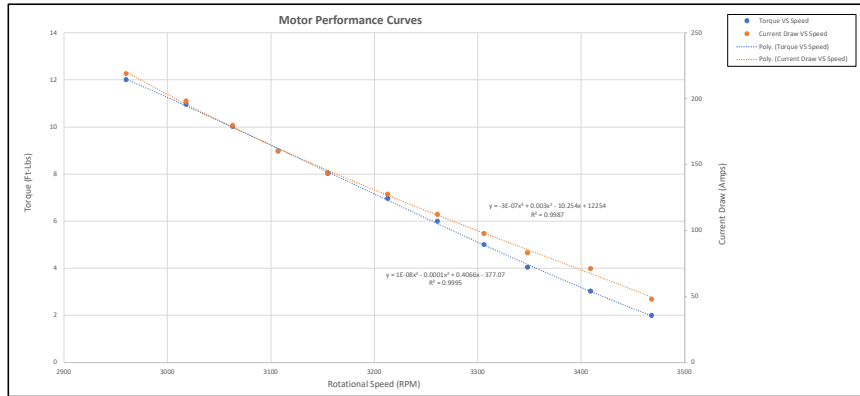
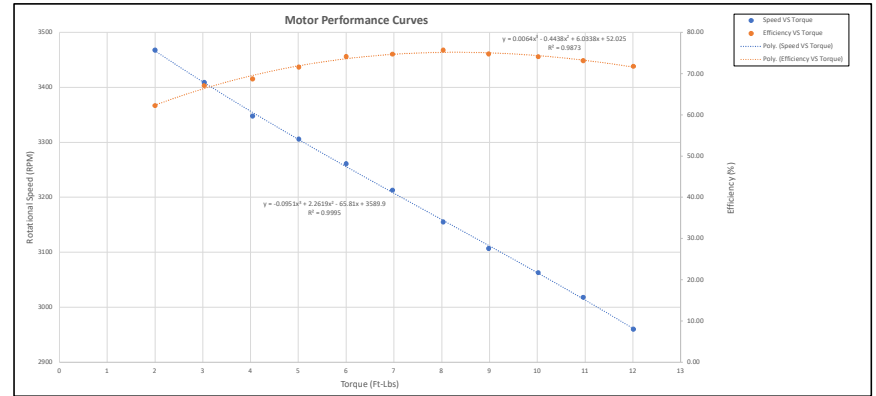
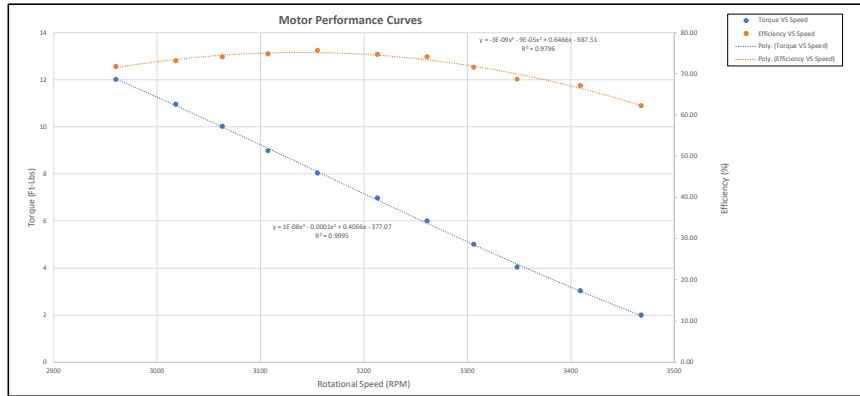


Engineering Performance Test Report

Performance Spec (PS) Number: 51

System Voltage (V): 36 - (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	3468	35.4	44.1	6.6	3.94	48.04	2.12	1.32	62.26
3.03	3409	35.1	61.3	6.6	9.93	71.23	2.92	1.96	67.12
4.04	3348	34.9	79.3	6.6	3.96	83.36	3.74	2.57	68.72
5.01	3306	34.7	93.9	6.7	3.92	97.82	4.4	3.15	71.59
6	3261	34.4	108.4	6.7	3.92	112.32	5.03	3.73	74.16
6.97	3213	34.2	123.2	6.7	3.93	127.63	5.7	4.26	74.74
8.03	3155	33.9	139.9	6.7	3.95	143.85	6.38	4.83	75.71
8.98	3107	33.6	156.7	6.7	3.96	160.66	7.1	5.31	74.79
10.02	3053	33.3	175.9	6.8	3.93	179.83	7.88	5.84	74.11
10.96	3018	32.9	194.2	6.8	4	198.2	8.61	6.3	73.17
12.01	2960	32.6	215.2	6.8	3.8	219	9.43	6.77	71.79

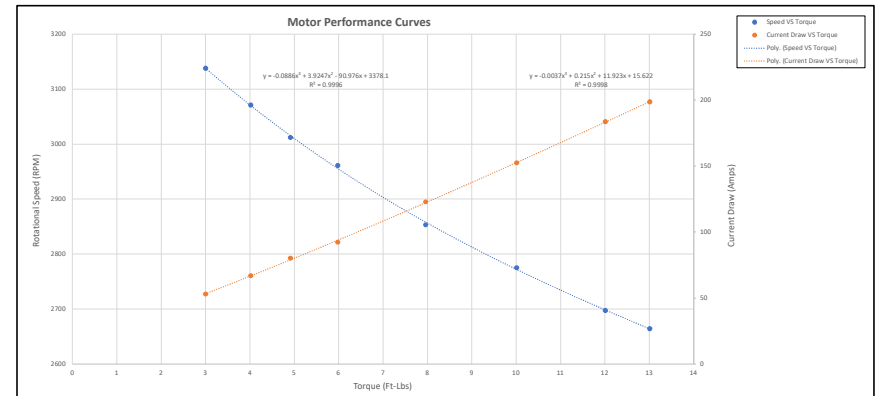
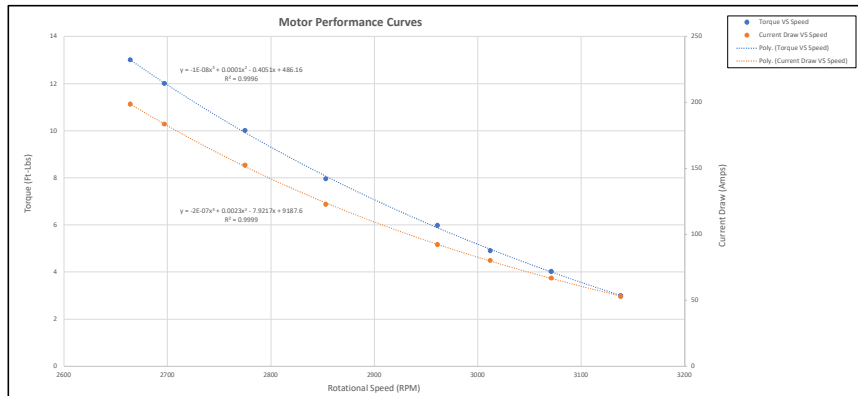
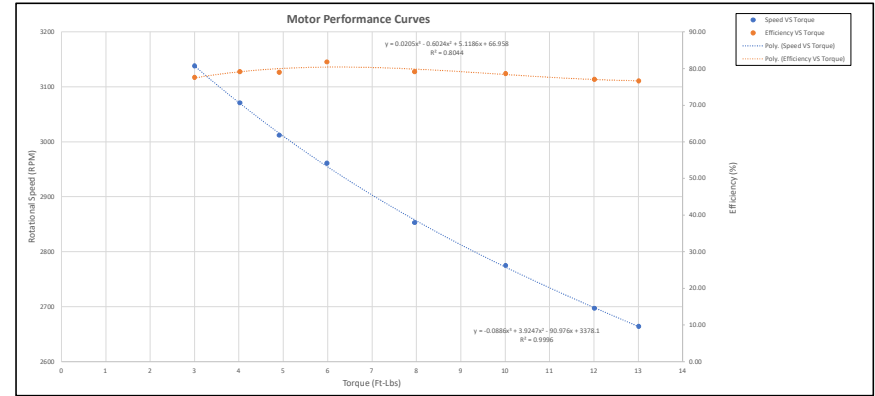
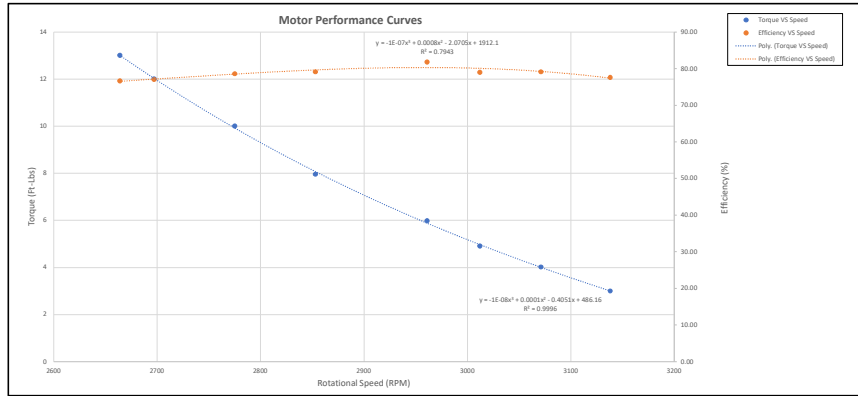


Engineering Performance Test Report

Performance Spec (PS) Number: 51

System Voltage (V): 36 - (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 (%)
3	3138	35.3	48	7.6	4.96	52.96	2.32	1.8	77.59
4.02	3078	35.1	61.9	7.6	4.97	66.87	2.97	2.35	79.12
4.91	3012	34.9	75.2	7.7	4.95	80.15	3.57	2.82	78.99
5.98	2961	34.7	87.3	7.7	4.97	92.27	4.12	3.37	81.80
7.96	2853	34.2	117.9	7.7	4.98	122.88	5.46	4.32	79.12
10.01	2775	33.8	147.5	7.7	4.98	152.48	6.73	5.29	78.60
12.01	2697	33.2	178.7	7.7	4.93	183.63	8.01	6.17	77.03
13.01	2664	33	193.8	7.8	4.94	198.74	8.61	6.6	76.66

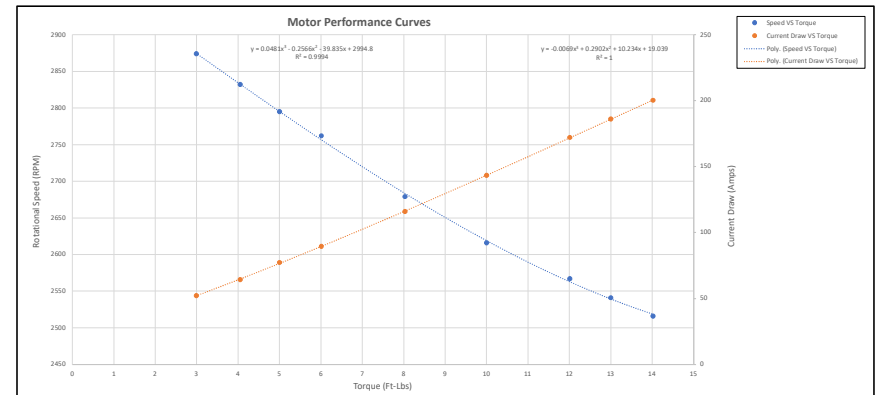
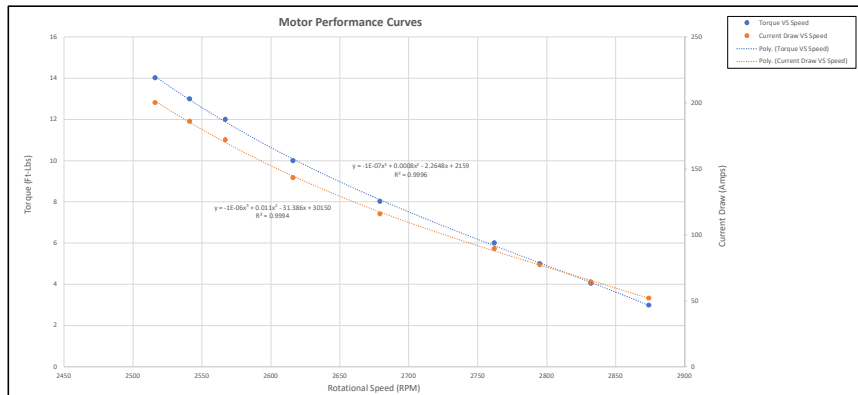
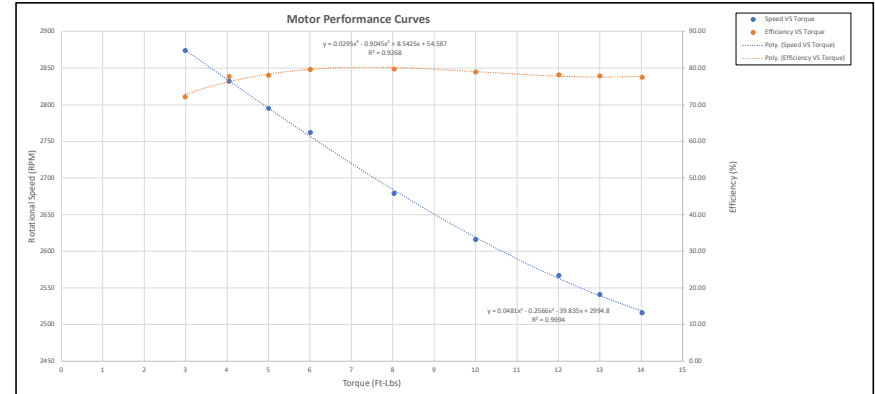
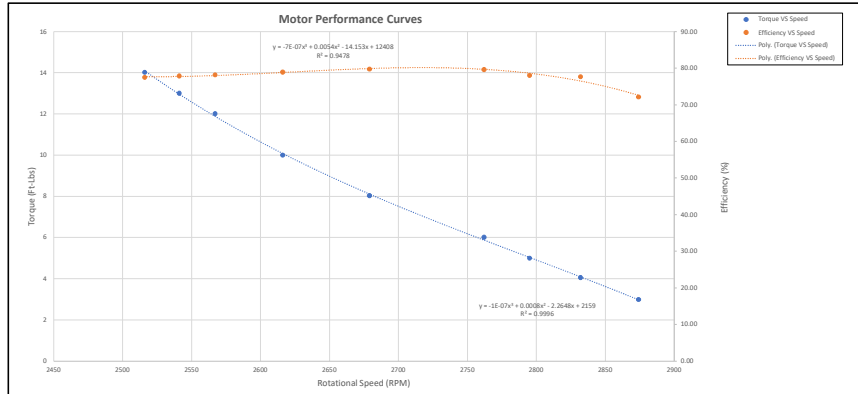


Engineering Performance Test Report

Performance Spec (PS) Number: 51

System Voltage (V): 36 - (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 (%)
2.99	2874	35.3	46.1	9	5.98	52.08	2.26	1.63	77.12
4.05	2832	35.2	58.3	9	5.98	64.28	2.82	2.19	77.66
5	2795	35	71.3	9	6	77.3	3.41	2.66	78.01
6.01	2762	34.8	83.6	9	5.99	89.59	3.97	3.16	79.60
8.03	2679	34.3	110	9.1	5.96	115.96	5.13	4.09	79.73
10	2516	33.9	137.3	9.1	6.04	143.34	6.31	4.98	78.92
12.01	2567	33.4	166.1	9.1	6.01	172.11	7.51	5.87	78.16
13	2541	33.2	180.1	9.1	5.98	186.08	8.08	6.29	77.85
14.02	2516	33	194.4	9.2	5.9	200.3	8.66	6.71	77.48

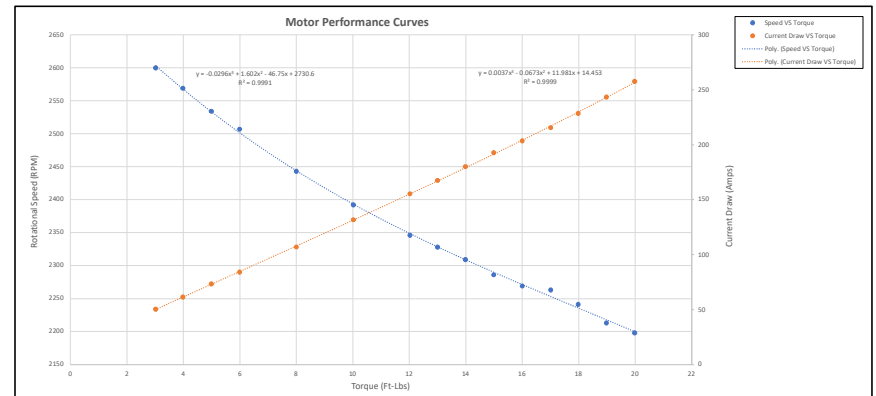
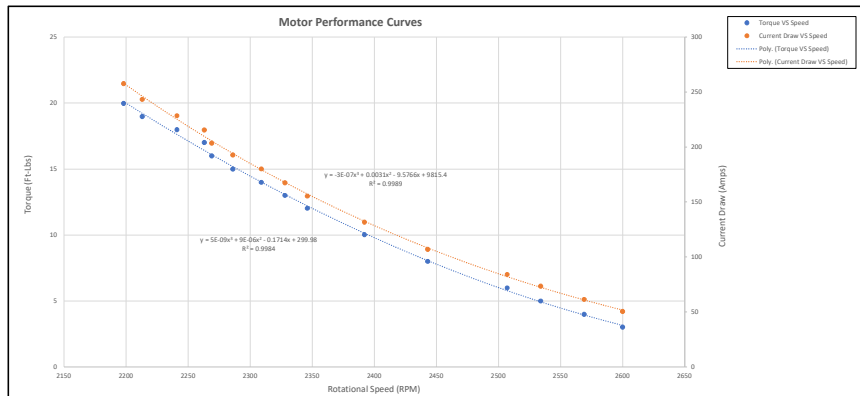
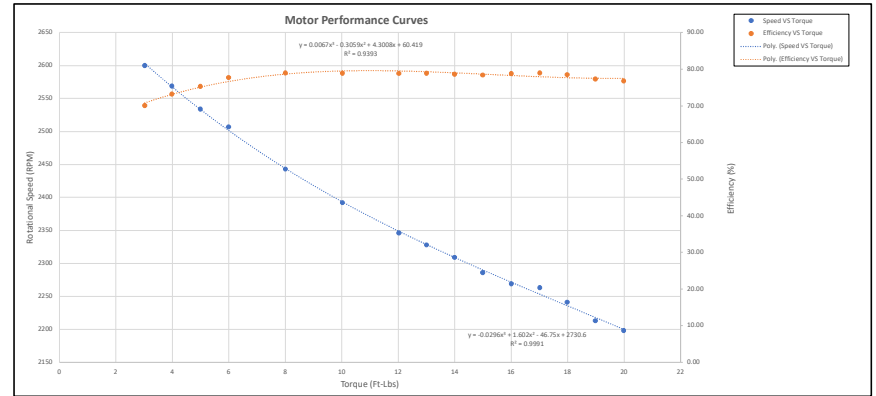
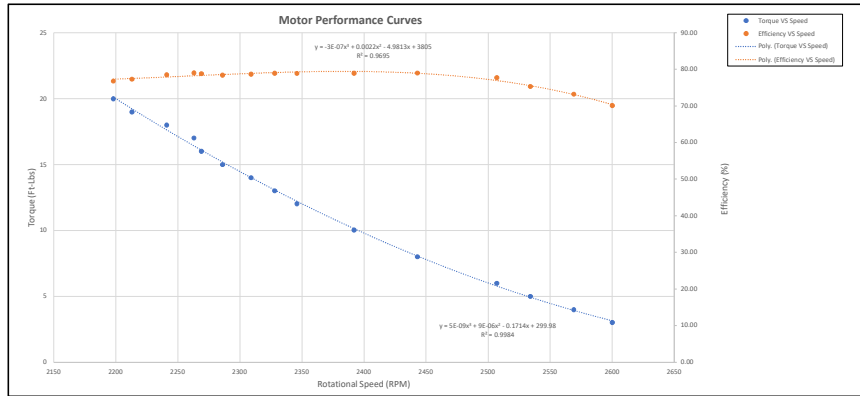


Engineering Performance Test Report

Performance Spec (PS) Number: 51

System Voltage (V): 36 - (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 (%)
3.02	2600	35.4	42.3	11.9	8.04	50.34	2.14	1.5	70.09
3.98	2599	35.3	53.3	12	8.07	61.37	2.65	1.84	73.21
4.99	2534	35.1	65.3	12	8.07	73.37	3.2	2.41	75.31
5.99	2507	34.9	76	12.1	8.05	84.05	3.68	2.86	77.72
8	2443	34.5	98.9	12.1	8.04	106.94	4.71	3.72	78.98
10.02	2392	34.1	123.6	12.2	8.1	133.7	5.78	4.56	78.89
12.02	2346	33.8	147.3	12.2	8.04	155.34	6.81	5.37	78.85
13	2328	33.5	159.5	12.3	8.03	167.53	7.3	5.76	78.90
13.99	2309	33.3	172.2	12.3	7.88	180.08	7.82	6.15	78.64
14.99	2286	33.1	184.7	12.4	8.04	192.74	8.31	6.53	78.39
16	2269	33	195.3	12.4	8.19	203.49	8.77	6.91	78.79
17.01	2263	32.9	207.6	12.5	7.97	215.57	9.28	7.33	78.99
17.98	2241	32.6	220.3	12.5	8.16	228.46	9.77	7.67	78.53
18.98	2213	32.4	235.4	12.6	7.9	243.3	10.35	8	77.29
19.98	2198	32.1	249.8	12.6	7.83	257.63	10.89	8.36	76.77

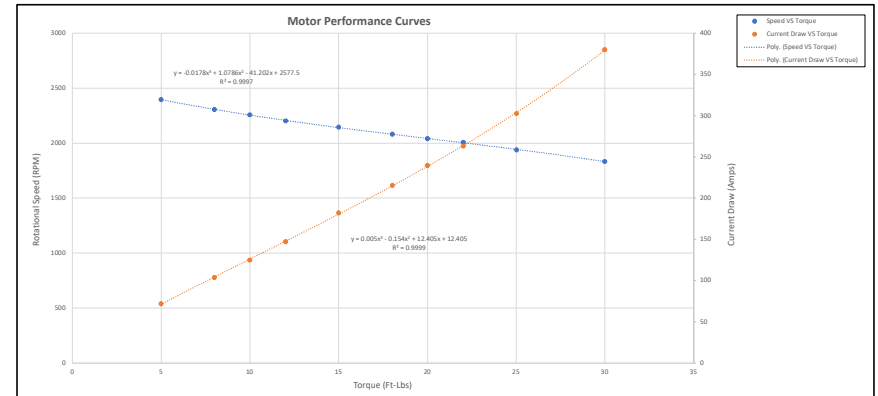
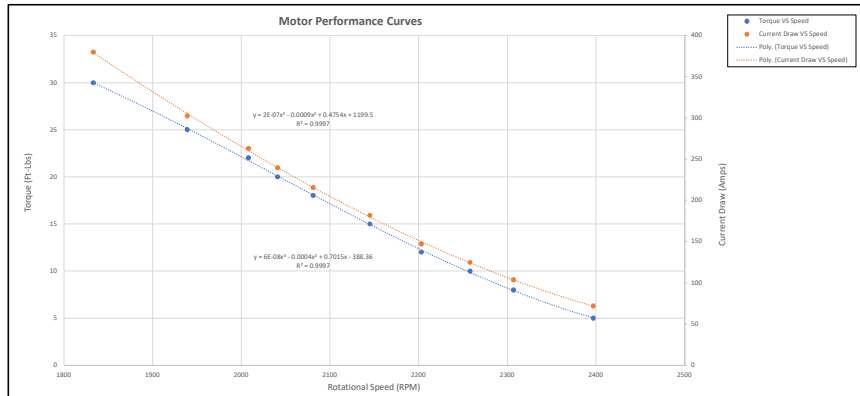
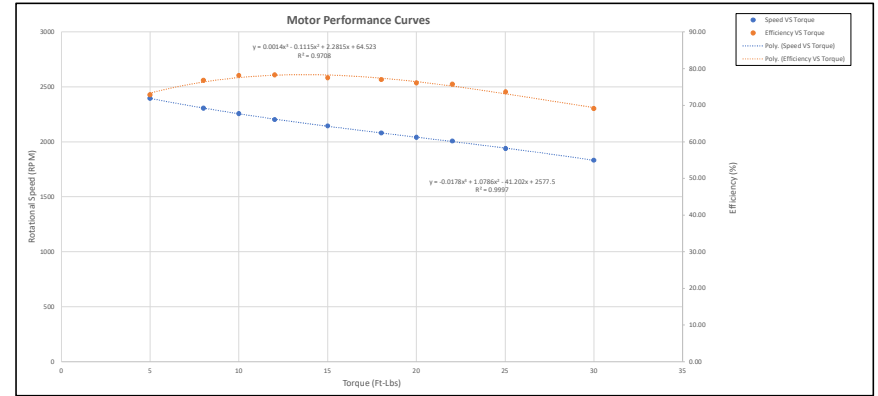
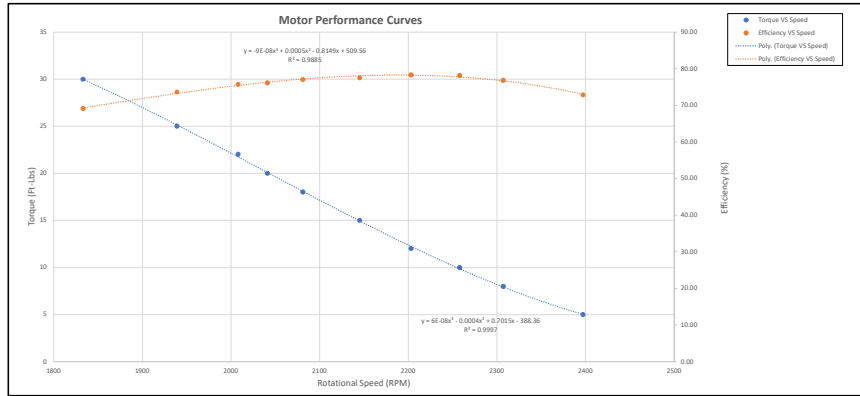


Engineering Performance Test Report

Performance Spec (PS) Number: 51

System Voltage (V): 36 - (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 (%)
4.99	2397	35.1	61.8	16.7	10.05	71.85	3.13	2.28	72.84
8	2307	34.6	53.7	16.7	10.07	103.77	4.57	3.51	76.81
9.99	2258	34.2	134.7	16.5	10.06	124.76	5.49	4.29	78.14
12.01	2203	33.9	137.1	16.9	10.05	147.15	6.45	5.05	78.29
15	2145	33.3	172	17	10.04	182.04	7.91	6.13	77.50
18.02	2081	32.8	205.3	17.1	10.16	215.46	9.27	7.14	77.02
20	2041	32.5	229.5	17.2	10	239.5	10.21	7.77	76.10
22.02	2008	32.1	253	17.3	10.01	263.01	11.12	8.42	75.72
25.02	1939	31.4	293.6	17.4	9.98	302.58	12.55	9.24	73.63
29.99	1833	30.1	370	17.5	10.05	380.05	15.15	10.47	69.11

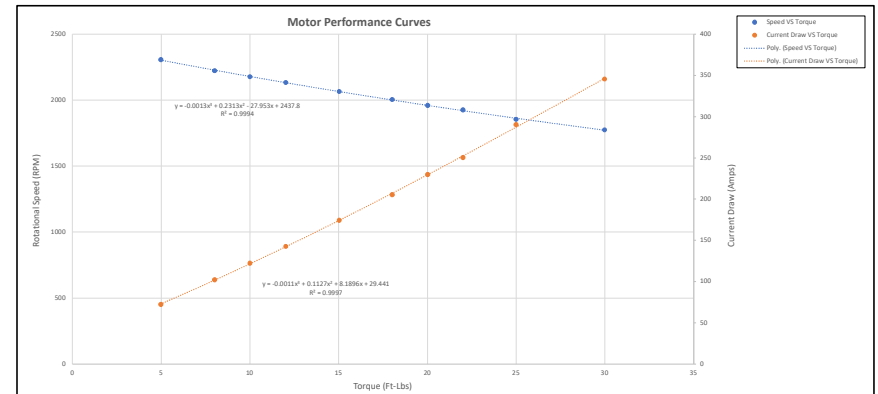
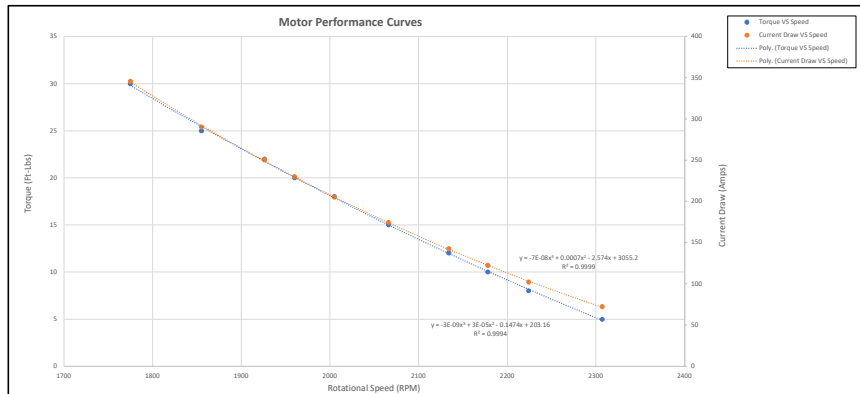
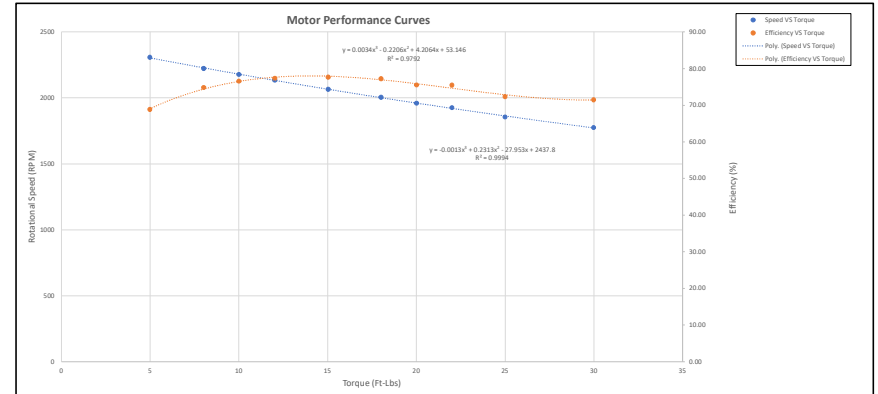
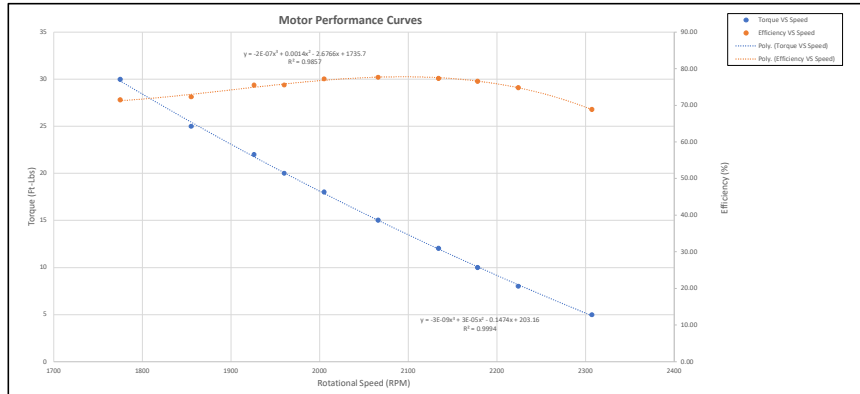


Engineering Performance Test Report

Performance Spec (PS) Number: 51

System Voltage (V): 36 - (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 (%)
4.98	2307	35.1	60.2	21.3	12.07	72.27	3.18	2.19	68.87
8.01	2224	34.7	58	21.4	12.07	70.07	4.53	3.39	74.83
30	2178	34.3	110.2	21.5	12.08	122.26	5.42	4.15	76.57
12.02	2134	34	130.6	21.6	12.04	142.64	6.31	4.88	77.34
15.03	2066	33.5	162.3	21.8	12.03	174.33	7.61	5.91	77.66
18.01	2005	33	193.2	21.9	12.13	205.33	8.91	6.88	77.22
20.01	1960	32.7	217.9	22	12	229.9	9.89	7.47	75.53
22	1926	32.3	238.5	22.1	11.94	250.44	10.69	8.07	75.49
24.99	1855	31.8	278.3	22.3	12.02	290.32	12.21	8.83	72.32
29.98	1775	30.9	333.4	22.4	12.2	345.6	14.17	10.13	71.49

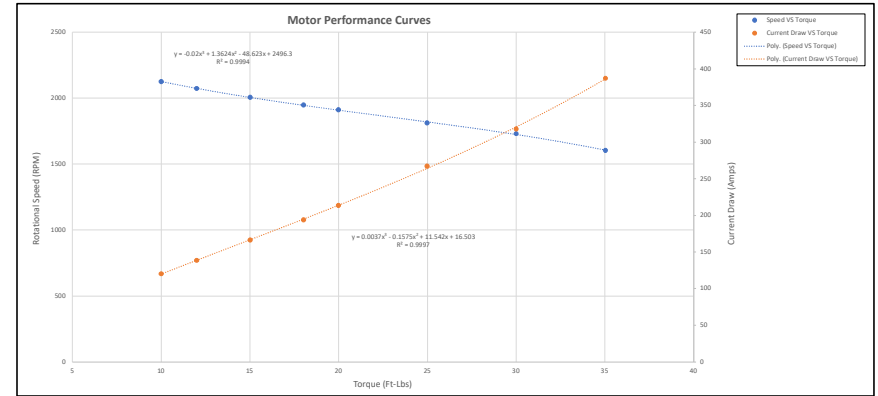
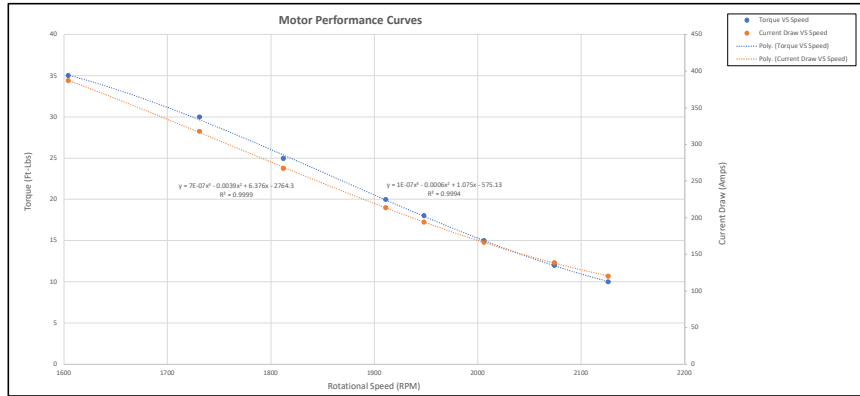
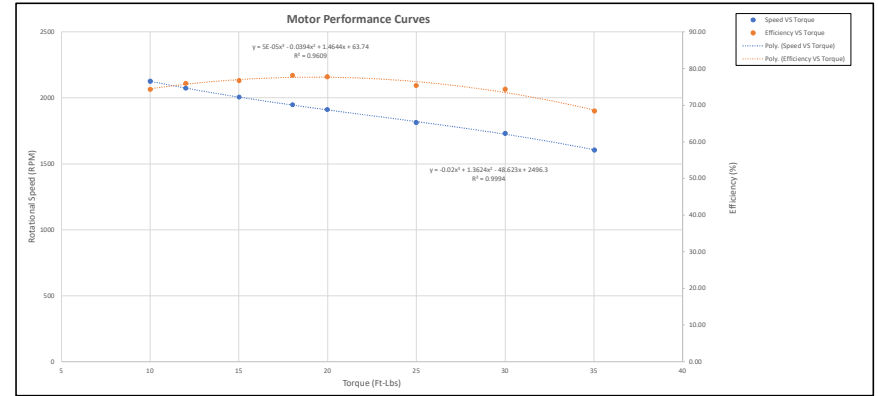
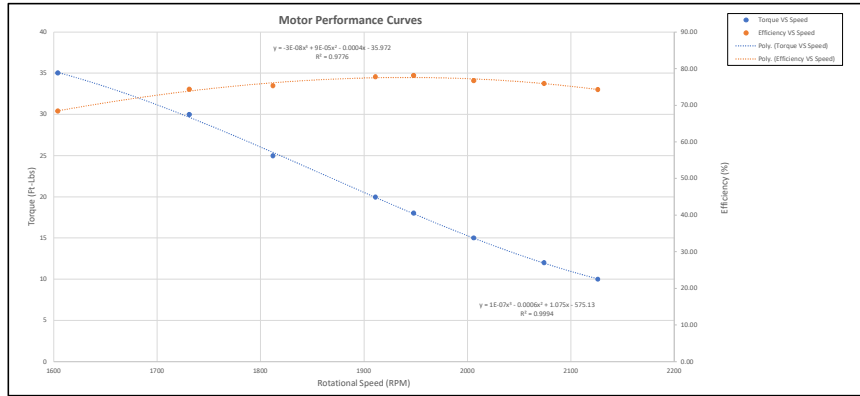


Engineering Performance Test Report

Performance Spec (PS) Number: 51

System Voltage (V): 36 - (1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Available Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
10	2126	30.2	105.2	29.2	15.08	120.28	5.45	4.05	74.31
12	2074	31.4	123.6	29	15.02	138.62	6.24	4.74	76.96
15.01	2006	32.2	151.4	28.8	15.01	166.41	7.43	5.7	76.72
18.02	1948	33	178.9	28.5	14.97	193.87	8.55	6.68	78.13
19.98	1911	33.3	198.7	28.3	14.99	213.69	9.35	7.27	77.75
24.98	1822	33.7	232.2	28	15.11	267.31	11.64	8.62	75.35
30	1731	34.1	302.7	27.7	15.19	317.89	13.3	9.89	74.36
35.03	1604	34.4	372	27.4	15.18	387.18	15.64	10.7	68.41

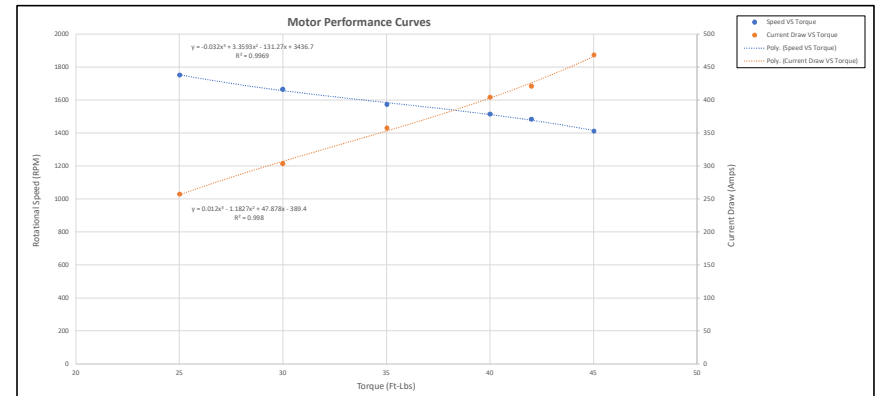
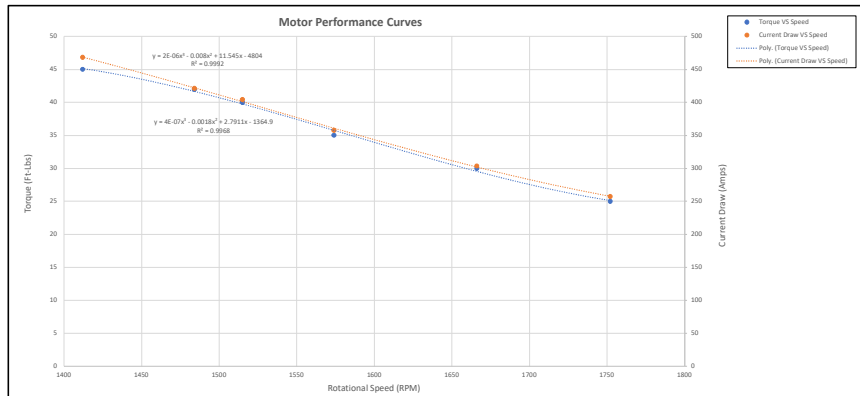
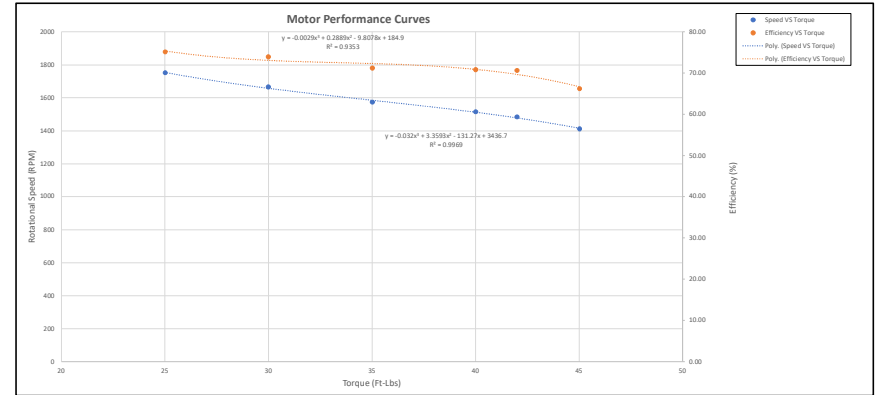
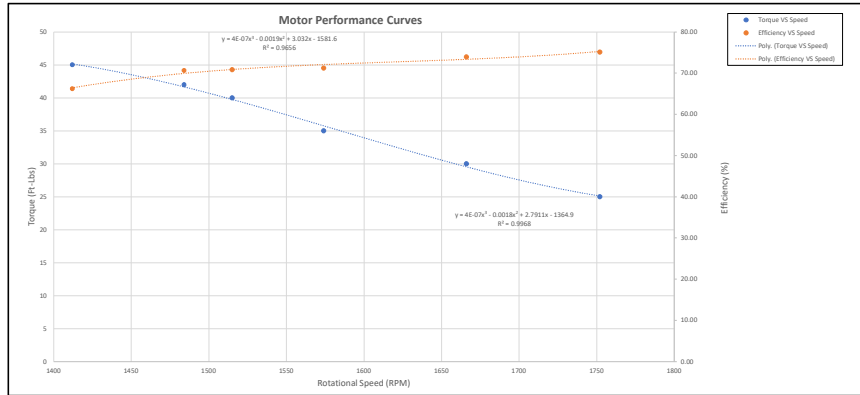


Engineering Performance Test Report

Performance Spec (PS) Number: 51

System Voltage (V): 36 - (1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Available Voltage (Volts)	Armature Current (Amper)	Field Voltage (Volts)	Field Current (Amper)	Total Current (Amper)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
25.01	1752	32.4	239.2	29.3	18.17	257.37	11.1	8.34	75.14
29.99	1666	31.7	285.5	29.8	18.14	303.64	12.86	9.51	73.95
35.02	1574	30.8	339.6	30.3	18.05	357.65	14.74	10.5	71.23
40	1515	30	386.4	30.8	18.02	404.42	16.29	11.54	70.84
42	1484	29.7	403.3	31.3	17.95	421.25	16.8	11.87	70.65
45.02	1412	29	450.5	31.8	17.99	468.49	18.27	12.1	66.23

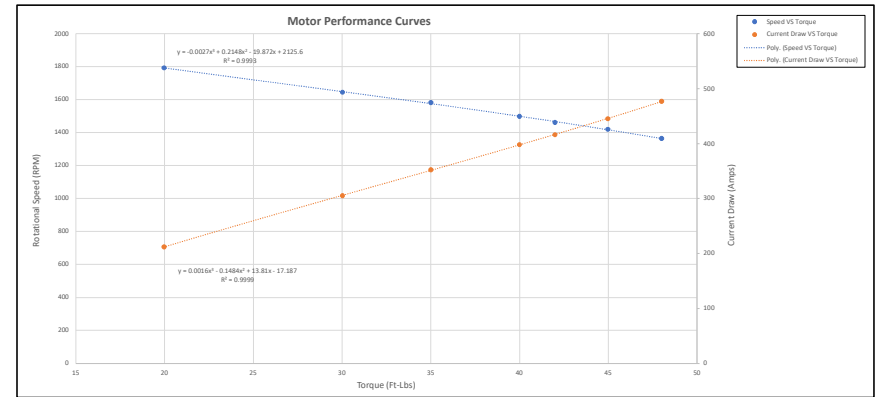
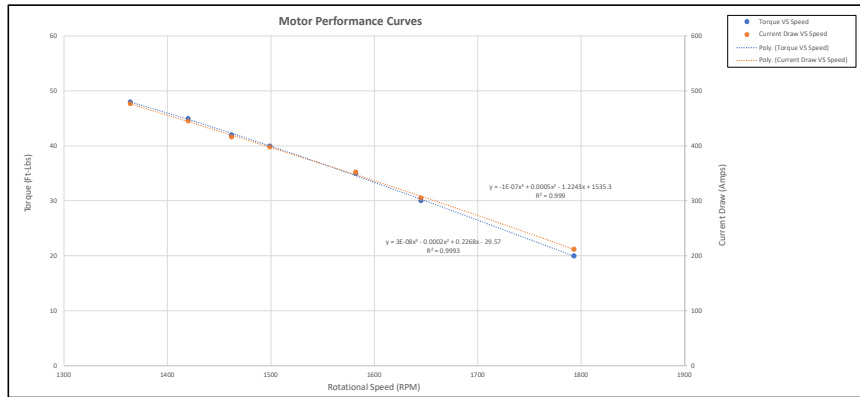
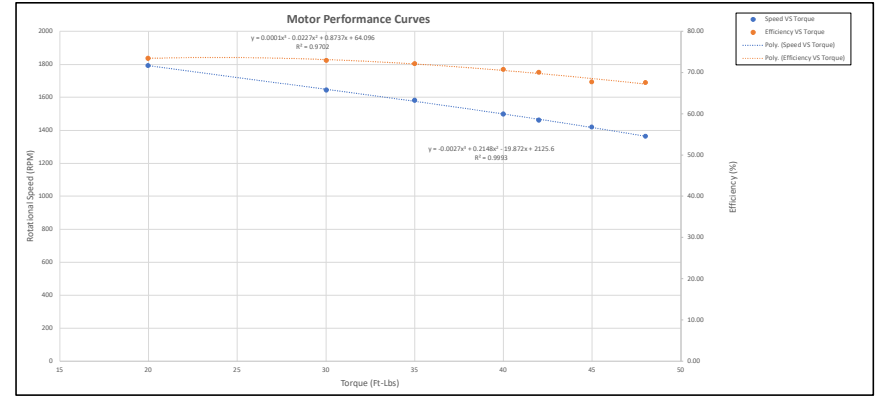
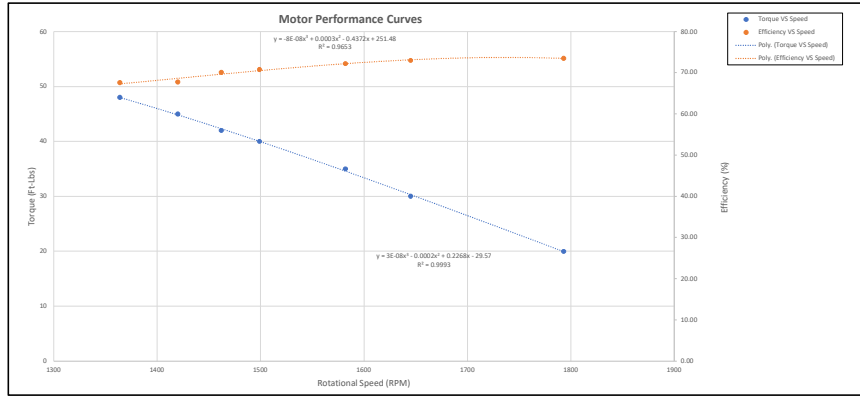


Engineering Performance Test Report

Performance Spec (PS) Number: 51

System Voltage (V): 36 - (1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Available Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
19.97	1793	33	192	29.2	19.96	211.96	9.28	6.82	73.49
30.02	1645	31.6	285	29.8	20.12	305.12	12.80	9.4	72.98
35	1582	30.9	332.1	30.4	30.3	352.4	14.6	10.54	72.19
39.99	1499	30.2	377.8	31	20.36	398.16	16.12	11.41	70.78
41.99	1462	29.8	395.9	31.6	20.12	416.02	16.68	11.69	70.08
44.97	1420	29.5	435.1	32.2	20.1	445.2	17.95	12.56	69.74
48	1364	28.7	456.8	32.8	20.24	477.04	18.45	12.47	67.59

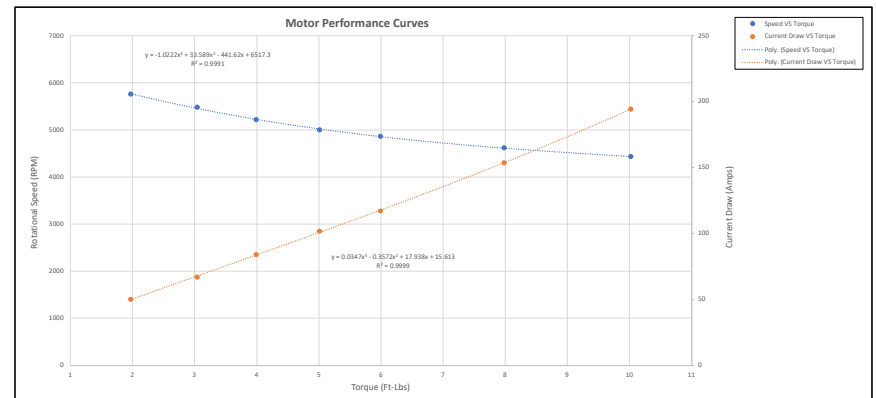
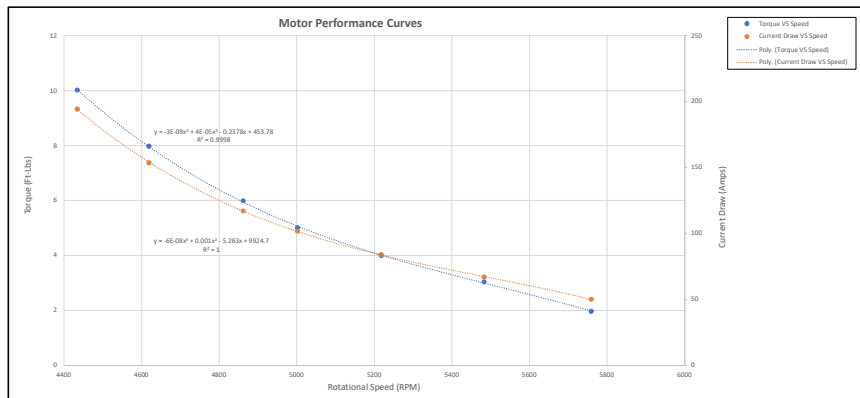
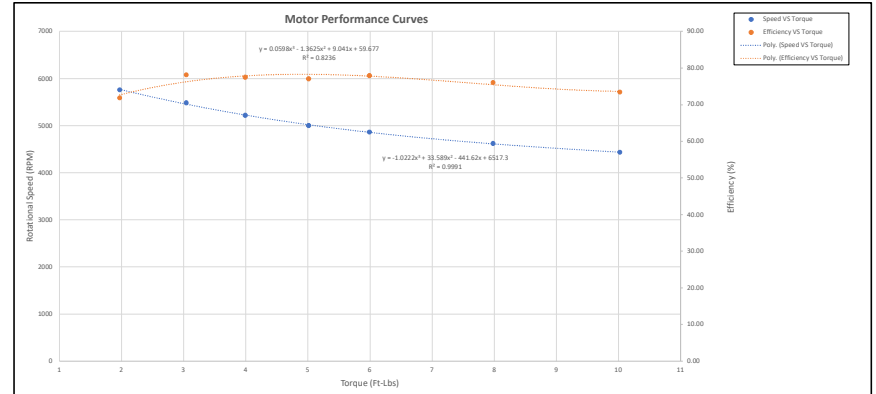
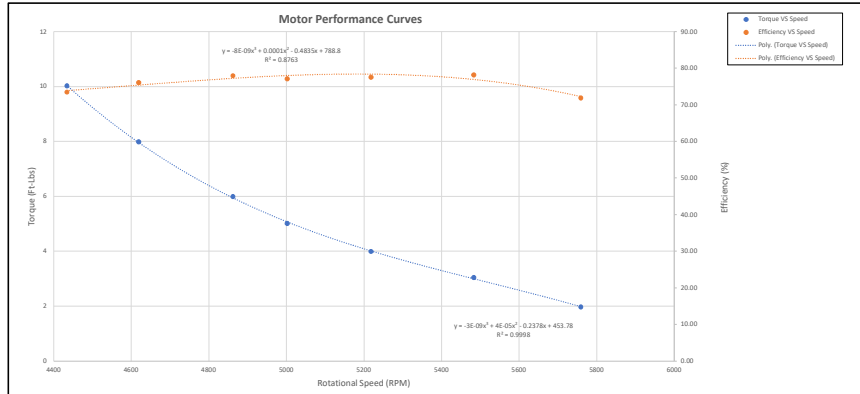


Engineering Performance Test Report

Performance Spec (PS) Number: 51

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 (%)
1.97	5759	47.4	47.2	4.7	2.95	50.15	3.02	2.17	71.85
3.04	5483	47.2	64	4.7	2.97	66.97	4.07	3.18	78.13
3.99	5218	46.9	81	4.7	2.95	83.95	5.11	3.96	77.50
5.01	5002	46.6	98.8	4.7	2.93	101.73	6.19	4.77	77.06
5.99	4862	46.3	114.2	4.7	2.92	117.12	7.11	5.54	77.92
7.98	4629	45.6	150.7	4.7	2.95	153.65	9.22	7.01	76.03
10.02	4434	44.8	191.6	4.7	2.84	194.44	11.52	8.46	73.44

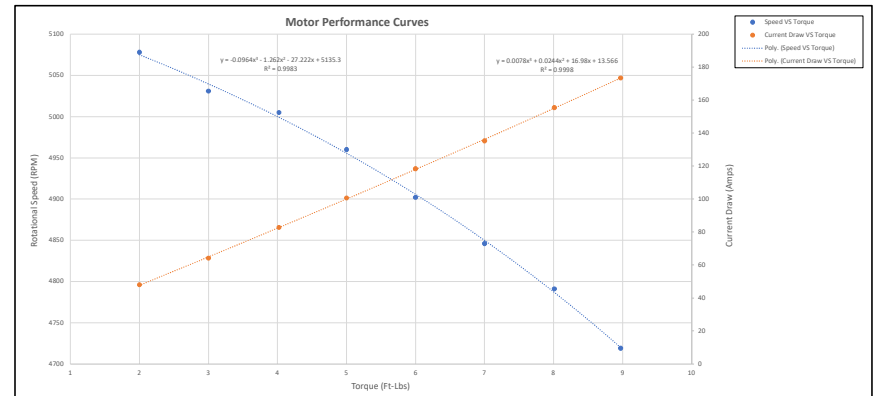
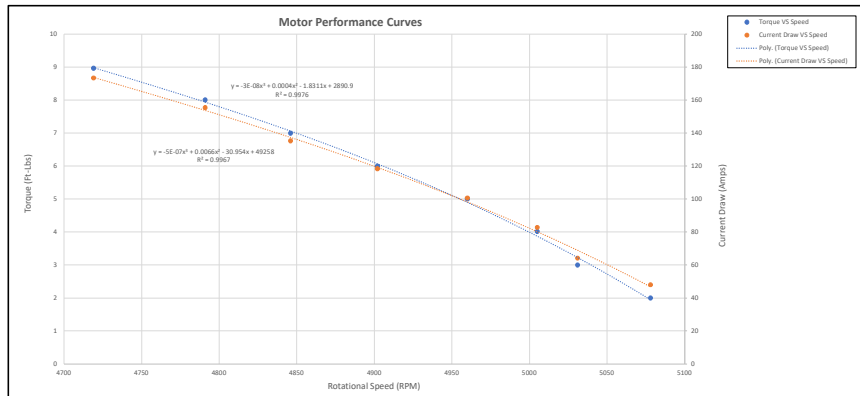
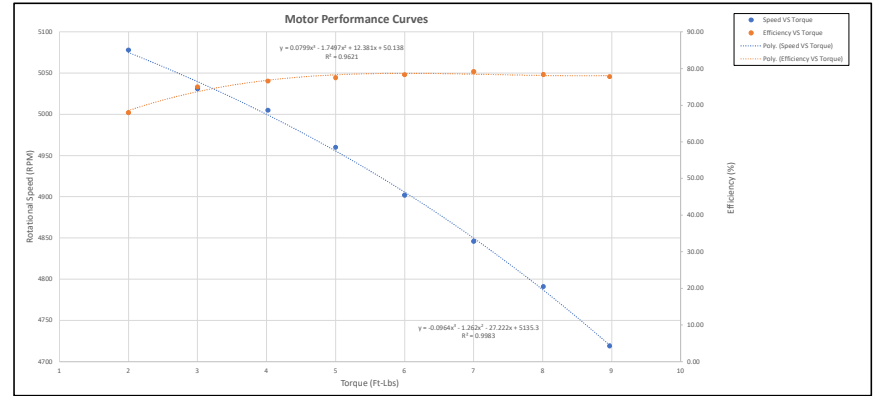
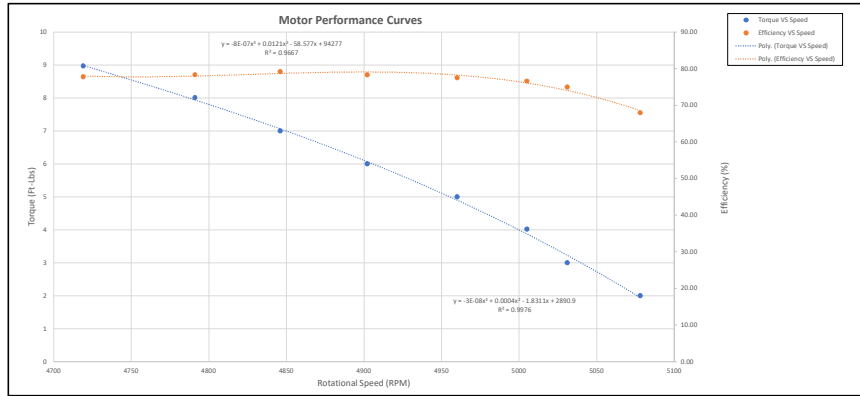


Engineering Performance Test Report

Performance Spec (PS) Number: 51

System Voltage (V): 48 - (1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Available Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
2	5078	47.5	44.1	6.4	3.93	48.03	2.84	1.93	67.96
3	5031	47.3	60.2	6.5	3.97	64.17	3.84	2.88	75.00
4.02	5005	47	78.8	6.5	3.97	82.77	5	3.83	76.60
5	4960	46.7	96.7	6.5	3.96	100.66	6.09	4.72	77.50
6	4902	46.4	114.4	6.5	3.98	118.38	7.15	5.6	78.32
7	4846	46.2	131.4	6.5	3.93	135.33	8.16	6.46	79.17
8.01	4791	45.8	151.5	6.5	3.99	155.49	9.33	7.31	78.35
8.97	4719	45.4	169.5	6.5	3.99	173.49	10.36	8.06	77.80

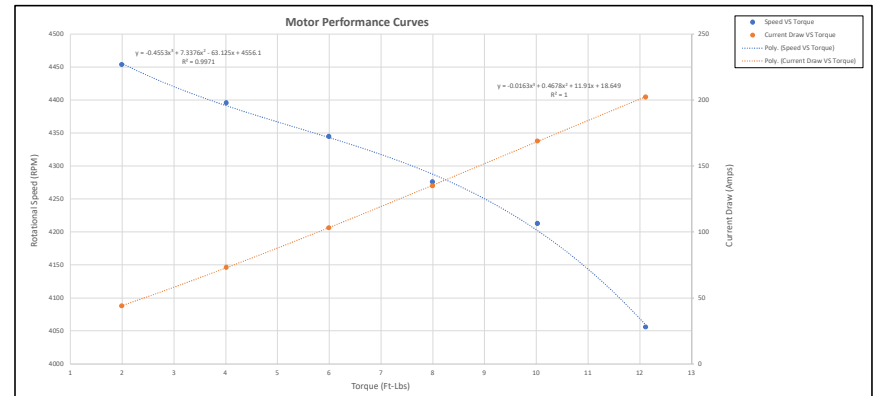
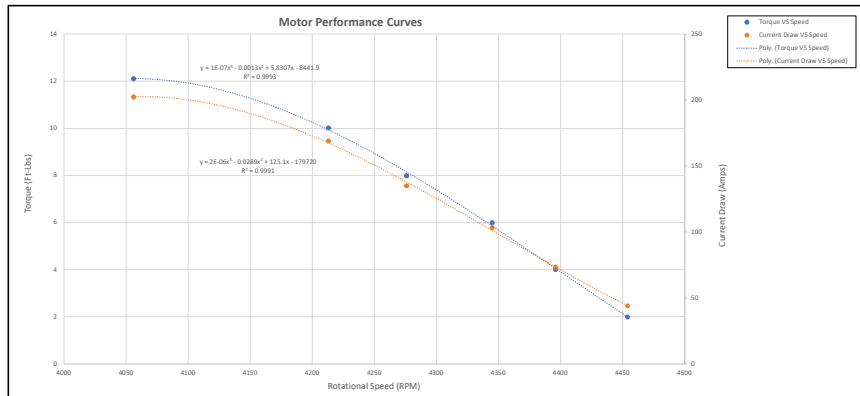
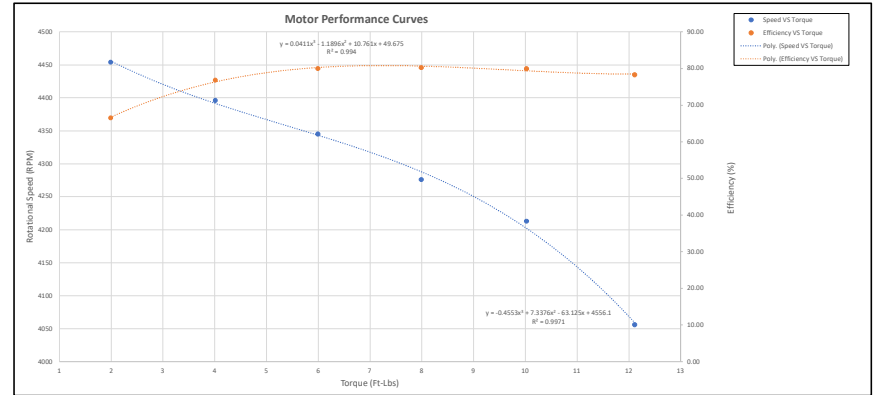
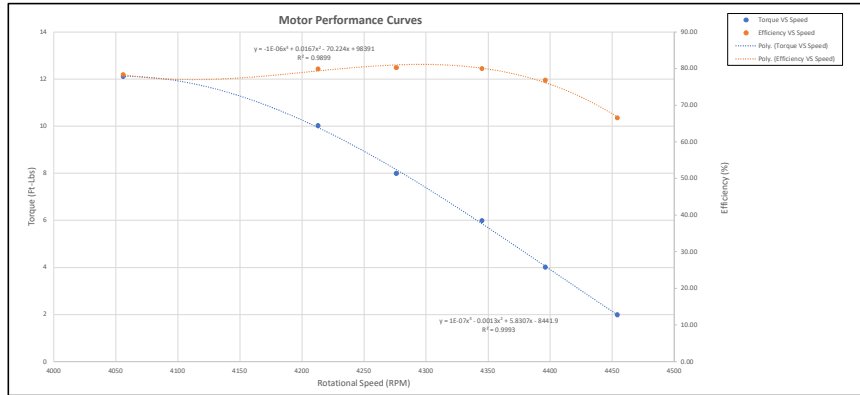


Engineering Performance Test Report

Performance Spec (PS) Number: 51

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 (%)
1.99	4454	47.5	39	8	4.97	43.97	2.54	1.69	66.54
4.01	4396	47.1	68.3	8	4.96	73.16	4.36	3.35	76.83
5.99	4345	46.7	98.2	8.1	4.99	103.19	6.2	4.96	80.00
7.99	4276	46.2	130	8.1	4.98	134.98	8.1	6.5	80.25
10.02	4213	45.6	164	8.1	4.99	168.99	10.06	8.04	79.92
12.11	4056	44.9	197.5	8.1	4.94	202.44	11.94	9.35	78.31

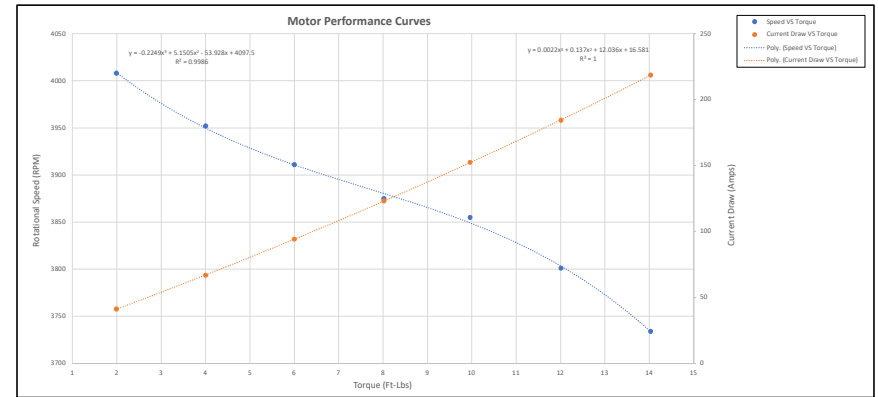
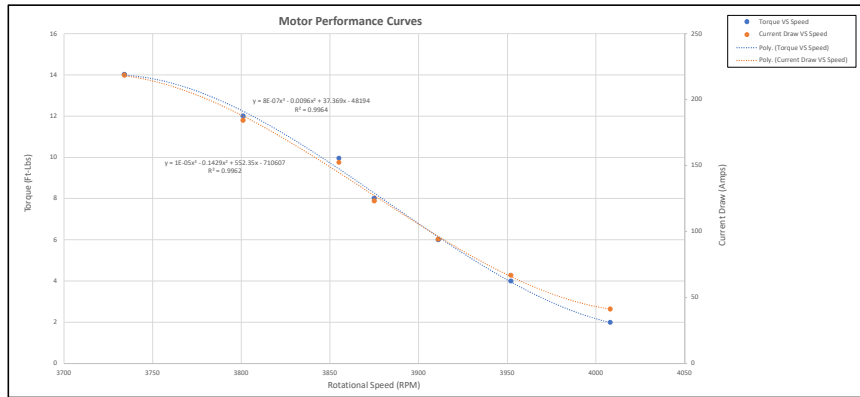
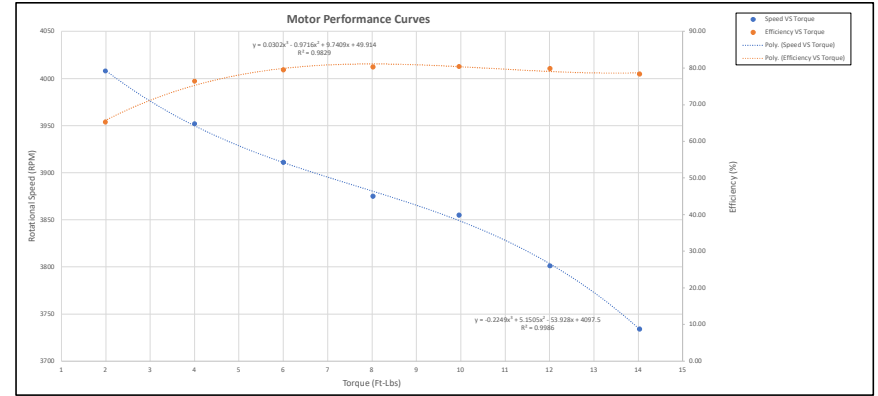
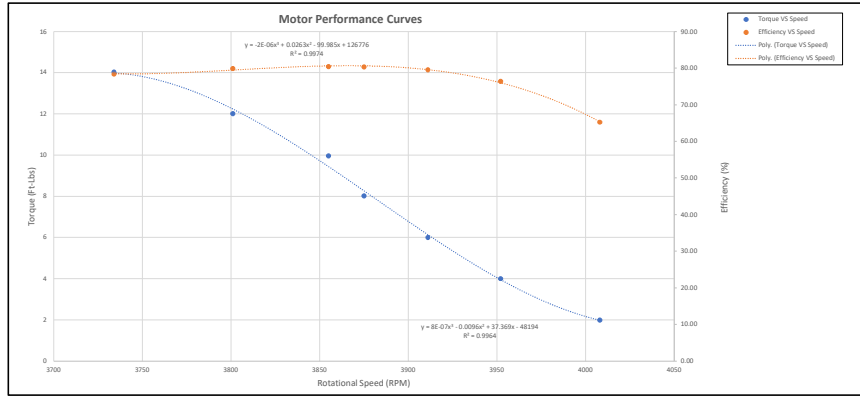


Engineering Performance Test Report

Performance Spec (PS) Number: 51

System Voltage (V): 48 - (1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Analog Voltage (Volts)	Amplitude Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
1.99	4008	47.7	35.2	10.3	5.98	41.18	2.33	1.52	65.24
4	3952	47.2	60.9	10.4	5.98	66.88	3.94	3.01	76.40
6	3911	46.9	88.2	10.4	6	94.2	5.62	4.47	79.54
8.02	3875	46.4	117.2	10.4	5.99	123.19	7.37	5.92	80.33
9.96	3855	45.9	146.5	10.4	5.95	152.45	9.09	7.31	80.42
12.01	3801	45.2	178.2	10.4	6.19	184.39	10.88	8.69	79.87
14.03	3734	44.4	212.8	10.5	5.87	218.67	12.74	9.98	78.34

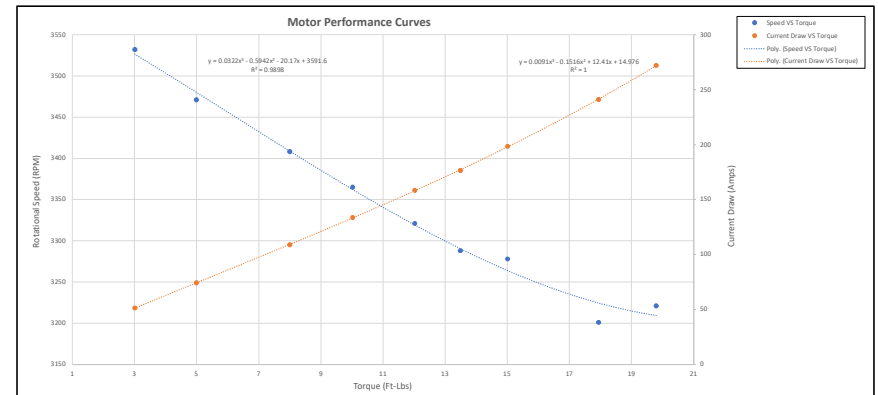
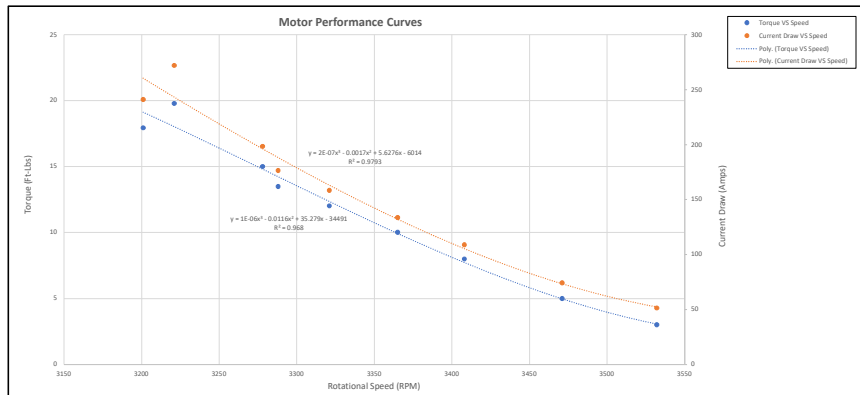
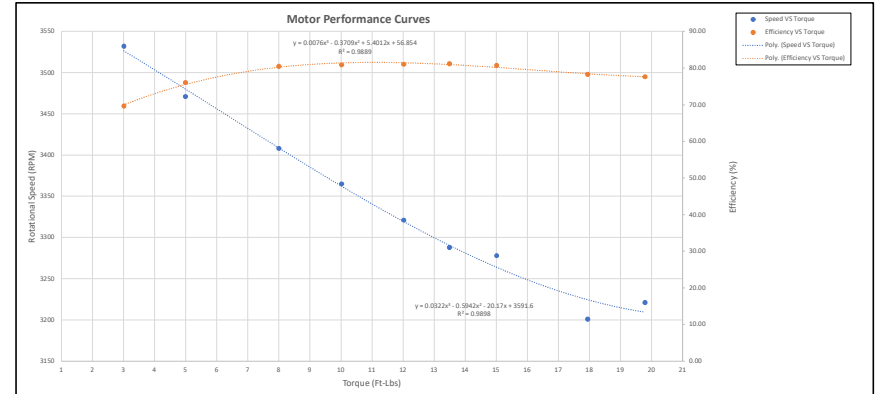
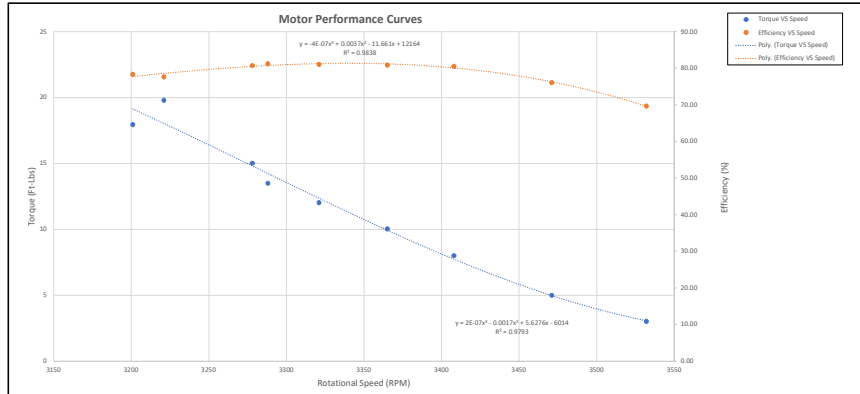


Engineering Performance Test Report

Performance Spec (PS) Number: 51

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 (%)
3.01	3532	47.5	43.2	13.9	8.08	51.28	2.9	2.02	69.66
4.99	3474	47.3	65.2	13.9	8.09	74.21	4.34	3.3	76.04
8	3408	46.6	100.8	13.9	8	108.8	6.45	5.19	80.47
10.02	3365	46.3	125.7	14	8.01	133.71	7.94	6.42	80.86
12.02	3321	45.8	150.3	14	8.1	158.4	9.38	7.6	81.02
13.49	3288	45.4	168.5	14.1	8.03	176.53	10.61	8.45	81.17
15.01	3278	44.9	190.4	14.1	8.03	198.43	11.61	9.37	80.71
17.94	3201	44.2	232.9	14.2	8.14	241.04	13.95	10.93	78.30
19.79	3221	43.8	264.1	14.3	7.97	272.07	15.64	12.14	77.62

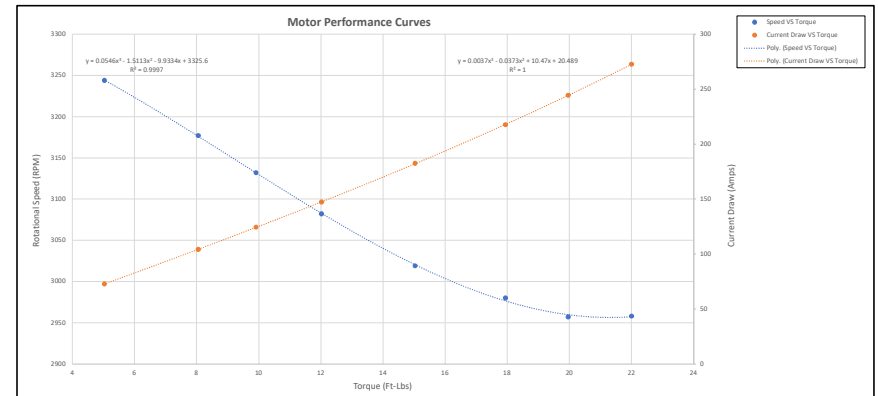
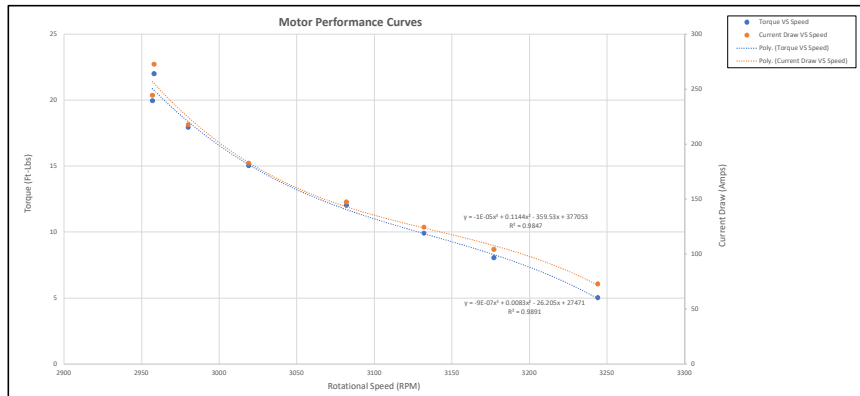
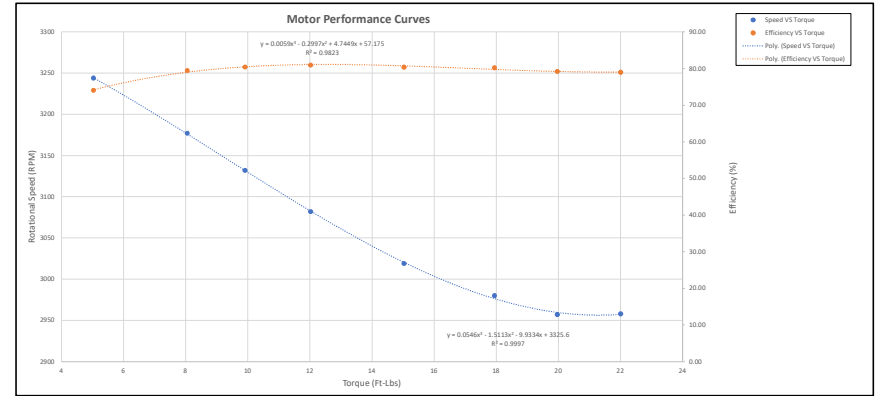
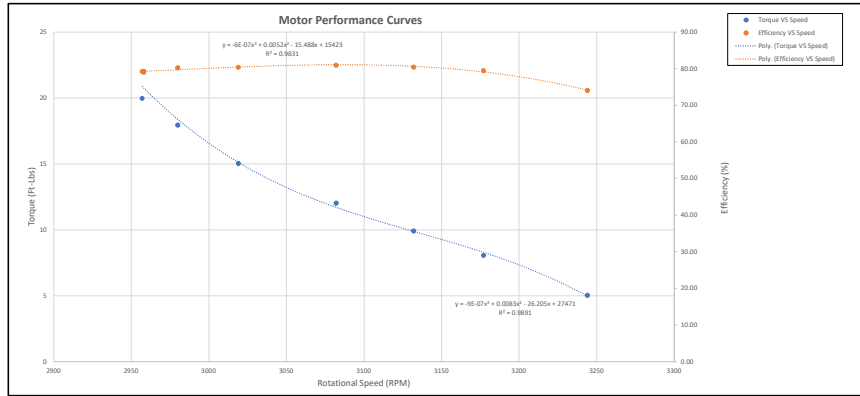


Engineering Performance Test Report

Performance Spec (PS) Number: 51

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 (%)
5.03	3244	47.2	62.7	17.2	10.03	72.73	4.2	3.11	74.05
8.05	3177	46.7	64.4	17.3	10.06	104.46	6.13	4.87	79.45
9.91	3132	46.4	134.4	17.4	10.03	124.43	7.35	5.91	80.41
12.02	3082	46.1	137.2	17.5	10.02	147.22	8.71	7.05	80.94
15.03	3019	45.5	172.4	17.5	10.11	182.51	10.75	8.64	80.37
17.94	2980	44.8	207.6	17.6	10.03	217.63	12.69	10.18	80.22
19.96	2957	44.4	234.5	17.7	9.97	244.47	14.19	11.24	79.21
22	2958	43.9	262.5	17.8	10.17	272.67	15.69	12.39	78.97

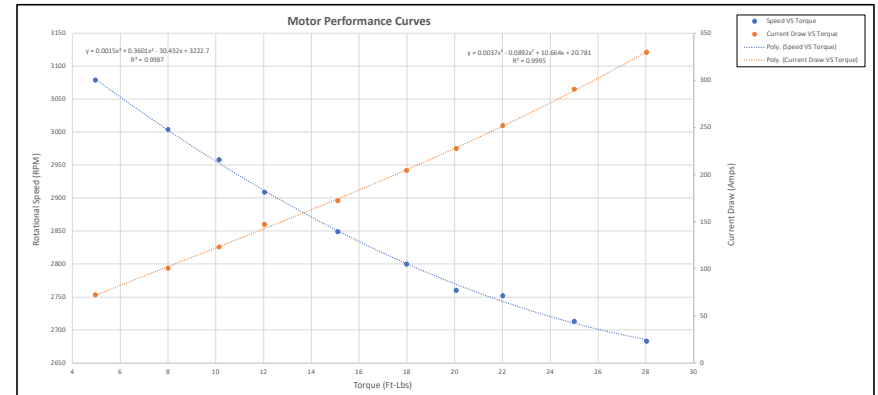
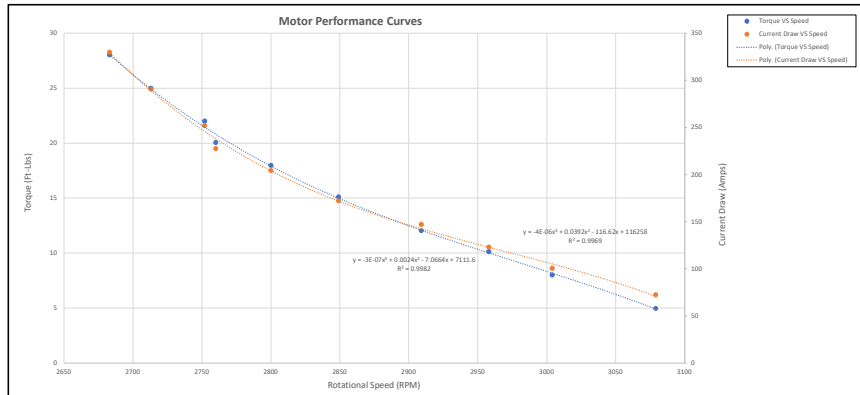
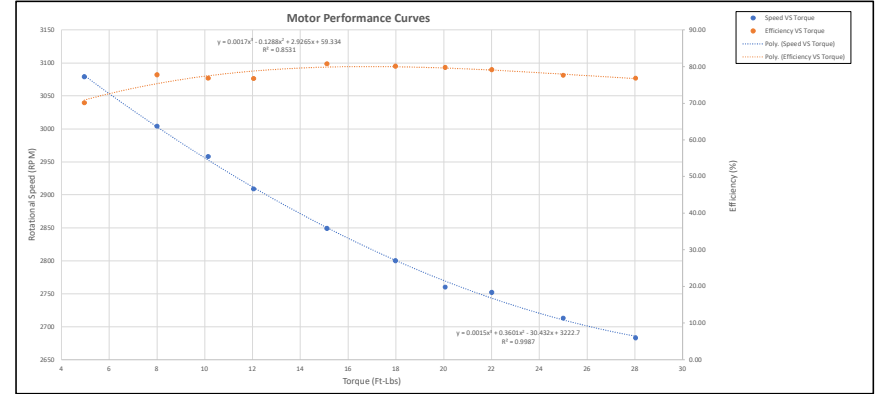
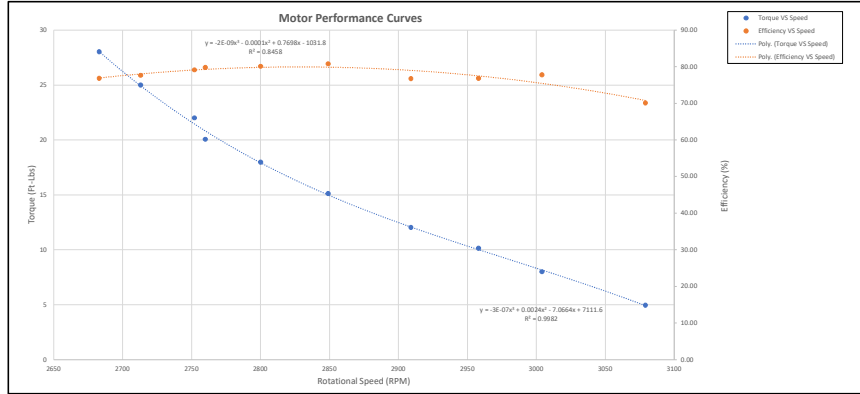


Engineering Performance Test Report

Performance Spec (PS) Number: 51

System Voltage (V): 48 - (1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Available Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
4.96	3079	47.2	60.3	20.4	12.08	72.38	4.15	2.91	70.12
8	3004	46.8	88.3	20.5	12.11	100.41	5.89	4.58	77.76
10.14	2958	46.5	111	20.7	12.1	123.11	7.25	5.57	76.83
12.04	2909	46.2	134.9	20.8	12.07	146.97	8.69	6.67	76.75
15.11	2849	45.6	160.2	20.9	11.97	172.17	10.14	8.19	80.77
17.98	2800	45.1	182.3	21	12	204.3	11.96	9.58	80.19
20.06	2760	44.5	215.6	21.1	11.98	227.58	13.21	10.54	79.79
22.01	2752	44.3	239.8	21.3	12.21	252.01	14.57	11.53	79.14
25	2713	43.6	278.4	21.4	12.21	290.61	16.63	12.91	77.63
28.03	2681	43.1	312.6	21.5	12.2	329.81	18.64	14.30	76.82

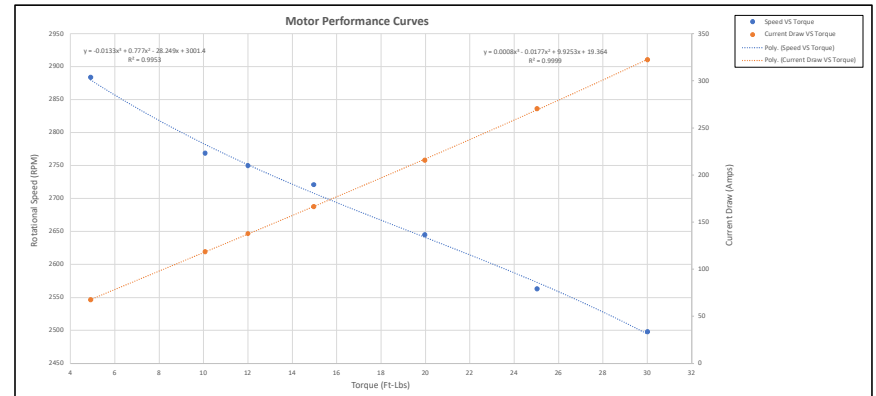
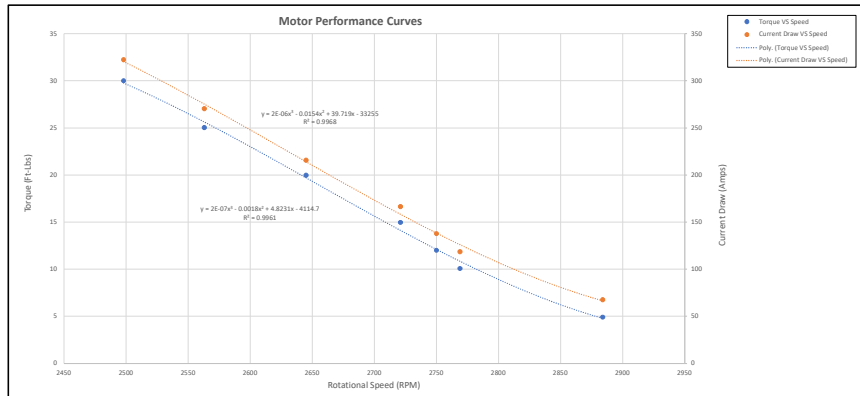
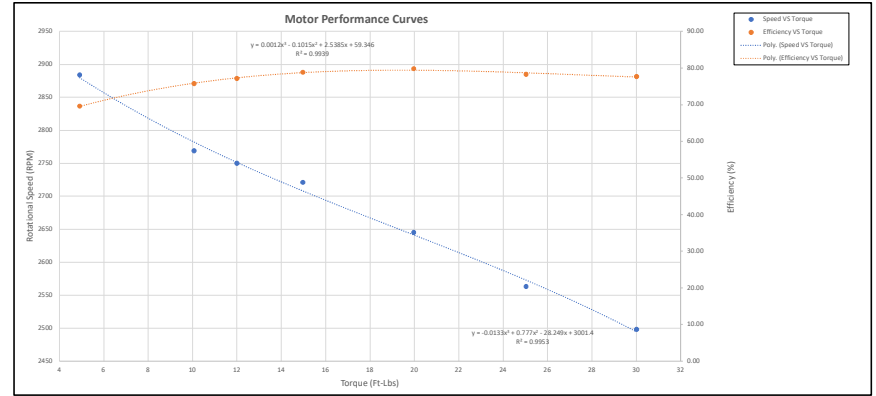
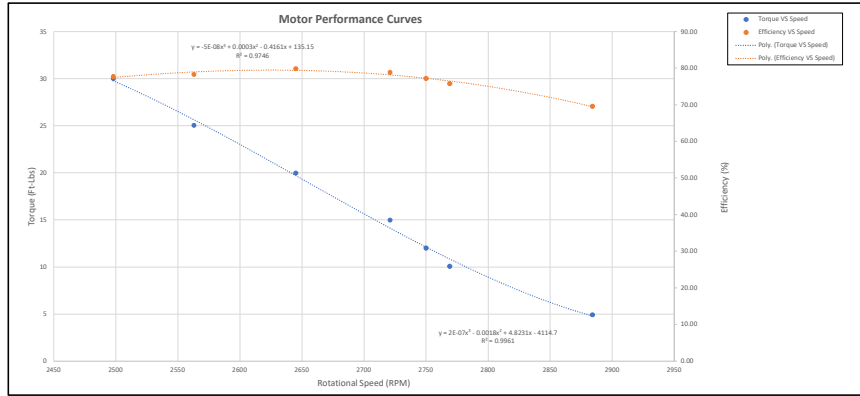


Engineering Performance Test Report

Performance Spec (PS) Number: 51

System Voltage (V): 48 - (1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Analog Voltage (Volts)	Analog Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
4.91	2884	47.4	52.5	27.1	15.06	67.56	3.88	2.7	69.59
10.07	2799	46.6	49.3	26.9	15.09	118.59	7.01	5.31	75.75
12	2750	46.3	132.7	26.7	15.06	137.76	8.15	6.29	77.18
14.97	2721	45.8	151.4	26.4	15.11	166.51	9.83	7.75	78.84
19.97	2645	44.9	200.5	26.1	15.08	215.58	12.59	10.05	79.83
25.03	2563	44.1	255.4	25.8	15.06	270.46	15.6	12.21	78.27
30.01	2498	43.3	307.4	25.6	15.04	322.44	18.38	14.28	77.69

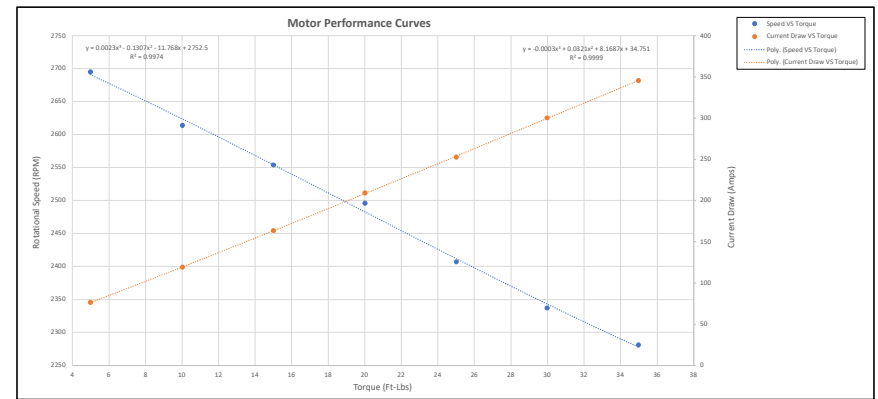
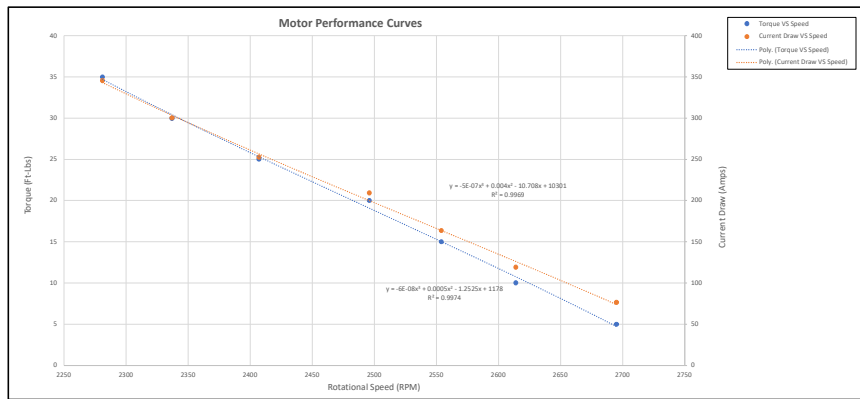
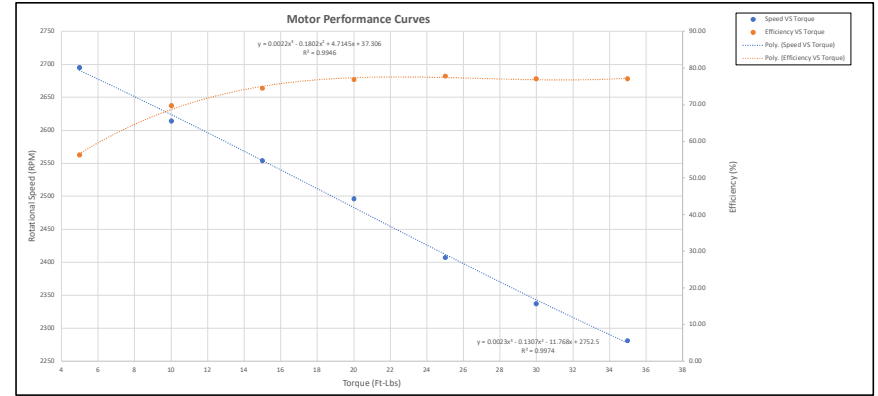
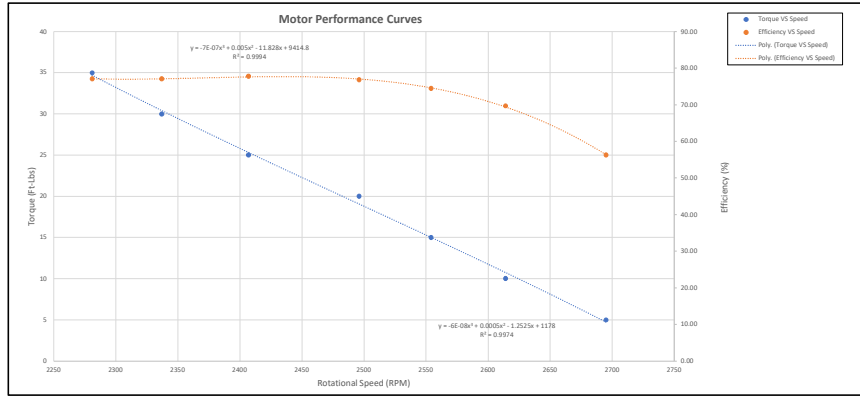


Engineering Performance Test Report

Performance Spec (PS) Number: 51

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 (%)
4.99	2695	47.3	56.3	36.5	20.12	76.42	4.55	2.56	56.26
10.02	2614	46.7	58.8	35.9	20.15	119.05	7.16	4.99	69.69
15	2554	46	143.4	35.3	20.14	163.54	9.79	7.29	74.46
20.01	2496	45.2	189.2	34.6	20.07	209.27	12.38	9.51	76.82
25.01	2407	44.3	232.6	33.9	20.13	252.73	14.73	11.46	77.80
29.98	2327	43.7	280.3	33.2	20	300.3	17.31	13.34	77.07
34.98	2281	43.2	325.4	32.5	20.15	345.55	19.71	15.19	77.07



Engineering Performance Test Report

Performance Spec (PS) Number: 51

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 (%)
5.01	2592	47.3	55.9	48.3	25.04	80.94	5.16	2.47	47.87
10.02	2510	46.7	56.2	47	24.99	121.69	7.63	4.79	62.78
14.99	2442	46.1	137.7	45.9	25	162.7	10.04	6.97	69.42
20	2383	45.3	180.4	44.6	25.1	205.5	12.45	9.07	72.85
24.97	2318	44.6	223.7	43.3	24.99	248.69	14.82	11.02	74.36
30.03	2241	44	263	41.9	25.01	288.01	16.91	12.81	75.75
34.98	2186	43.5	306	40.5	25.06	331.06	19.21	14.56	75.79

