Qubit Systems, Inc
Kinesiology Department
700 Gardiners Road
Kingston, Ontario, Canada K7M3X9
Phone: (613) 384-1977

Date of Service: **9/25/2012**
Lab File:
Temp: **0ºC**
Pressure: **0mmHg**
BTPS: **0.000**

Name: **William D. Roberts** MR#: **008** Sex: **M** DOB: **12/19/1954** Age: **57** Race: **W**
Height: **190 cm** Weight: **100.4 Kg** BMI: **27.8** Study ID: 1:
Technologist: **Thomas Fallon**
Faculty Member: **Colin D. Chapman, M.D.**

ATS compliant tests are indicated by a ✔ : FVC

Smoker: **N** Pack years: **N/A**
Last Tobacco Use (hours) **N/A**

Summary

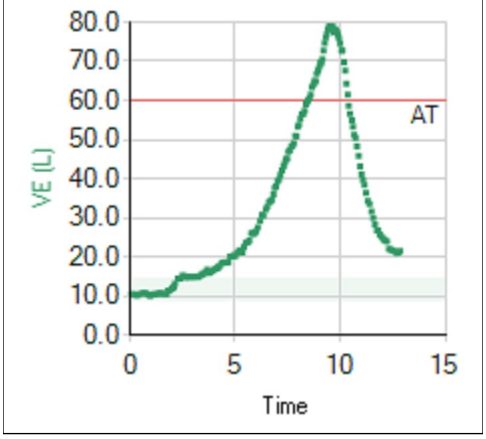
		Predicted	Measured	% Predicted
Spirometry	FVC (L)	5.55	**7.76**	140
	FEV1 (L)	4.25	**5.07**	119
	MVV (L)	148.8	**196.2**	132

Resting Data HR (bpm) **60** SpO2 (%) **----** SPB (mmHg) **122** DPB (mmHg) **93**
Exercise Duration: **6.83** Min
Perceived Exertion (Borg): **5** - Hard

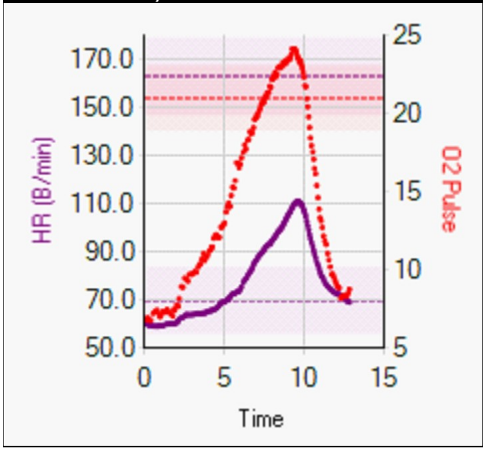
30 Second Average Exercise Tabular Data

						VE	VCO2	VO2	VO2				PO2 - mmHg			PCO2 - mmHg			VE	VE
Time	**Work**	**BP**		**HR**	**fb**	L/min	L/min	L/min	**HR**			**HCO3**								
m:sec	Watts	mmHg		min^{-1}	min^{-1}	BTPS	STPD	STPD	ml/bt	**R**	**pH**	meq/L	**ET**	**a**	**(A-a)**	**ET**	**a**	**(a-ET)**	**VCO2**	**VO2**
0:31	---	---	---	60	10	11.1	0.32	0.43	7.1	0.75	---	---	105	---	---	37	---		35	26
1:08	---	---	---	59	9	10.5	0.28	0.38	7.4	0.74	---	---	103	---	---	37	---		33	24
1:45	---	122	93	60	8	10.4	0.32	0.43	7.1	0.73	---	---	103	---	---	37	---		33	24
2:17	---	---	---	60	9	11.2	0.33	0.44	7.4	0.74	---	---	106	---	---	35	---		34	25
2:48	---	---	---	64	9	15.6	0.47	0.60	9.4	0.79	---	---	107	---	---	36	---		33	25
3:21	5	---	---	64	9	14.7	0.47	0.63	9.8	0.75	---	---	103	---	---	38	---		31	24
3:56	18	127	86	65	11	15.7	0.50	0.67	10.3	0.74	---	---	102	---	---	38	---		31	23
4:31	35	---	---	65	14	17.1	0.62	0.81	11.3	0.76	---	---	104	---	---	38	---		31	24
5:07	51	---	---	68	12	20.6	0.68	0.92	13.4	0.74	---	---	100	---	---	39	---		31	23
5:40	70	127	75	71	12	21.1	0.72	0.98	13.7	0.74	---	---	98	---	---	41	---		30	22
6:12	86	---	---	75	13	27.0	0.94	1.28	17.1	0.73	---	---	98	---	---	41	---		29	21
6:45	103	---	---	79	12	30.3	1.09	1.40	17.8	0.77	---	---	100	---	---	41	---		28	22
7:18	119	---	---	87	15	38.4	1.39	1.71	19.8	0.81	---	---	102	---	---	42	---		28	23
7:52	136	150	78	92	16	46.8	1.70	1.93	21.1	0.88	---	---	104	---	---	42	---		28	24
8:23	152	---	---	96	16	55.0	1.89	2.14	22.4	0.92	---	---	106	---	---	42	---		28	25
8:54	168	---	---	100	17	60.5	2.18	2.28	22.7	0.96	---	---	108	---	---	42	---		28	26
9:25	184	---	---	106	19	70.3	2.49	2.52	23.7	0.99	---	---	110	---	---	41	---		28	28
9:57	197	176	90	113	21	84.1	2.85	2.77	24.5	1.03	---	---	113	---	---	40	---		30	31
10:28	---	---	---	103	18	66.3	2.27	2.12	20.6	1.07	---	---	114	---	---	40	---		29	32
11:01	---	---	---	86	15	48.8	1.61	1.35	15.6	1.19	---	---	118	---	---	38	---		31	36
11:34	---	---	---	78	13	34.0	1.09	0.89	11.3	1.23	---	---	119	---	---	37	---		31	38
12:08	---	156	80	74	13	28.1	0.83	0.72	10.4	1.15	---	---	118	---	---	37	---		32	37
12:42	---	---	---	71	11	20.3	0.60	0.55	7.7	1.14	---	---	118	---	---	37	---		33	37

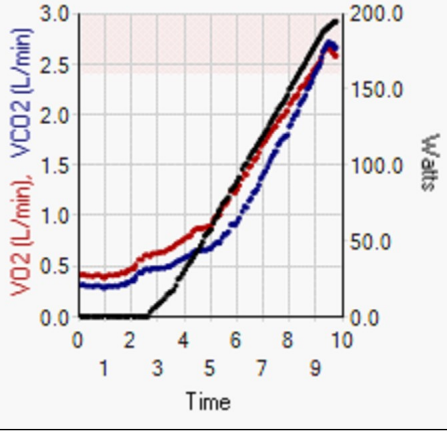
VE vs Time



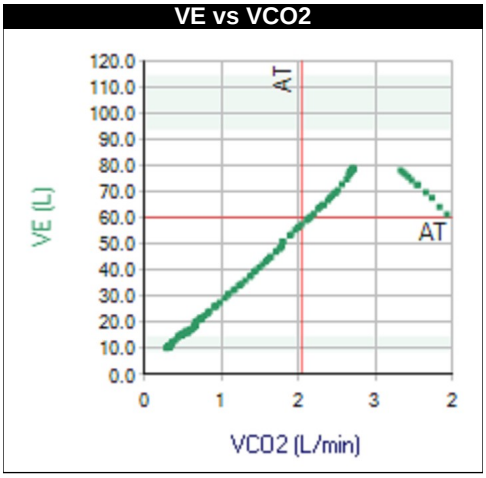
HR, O2 Pulse vs Time



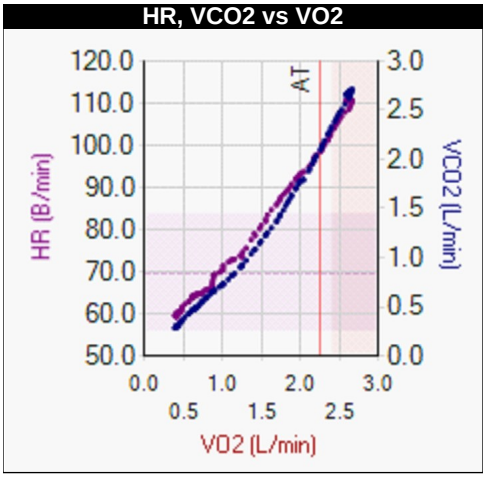
VO2, VCO2, Work vs Time



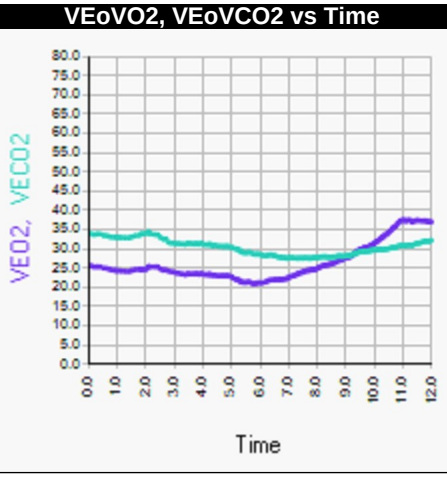
VE vs VCO2



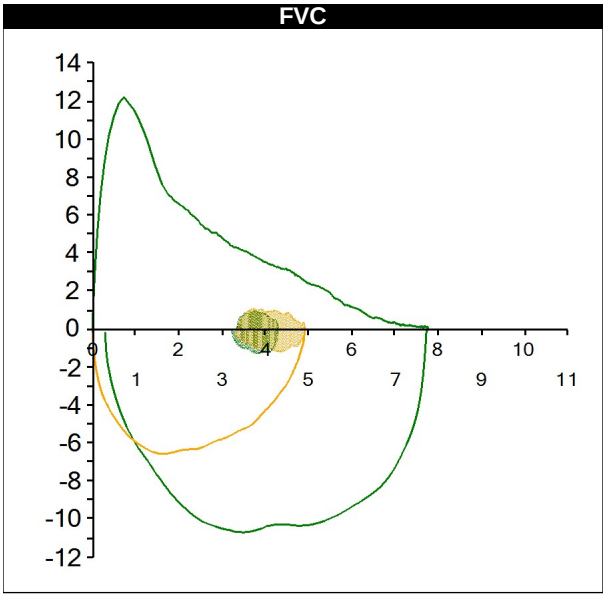
HR, VCO2 vs VO2



VEoVO2, VEoVCO2 vs Time



FVC



Ventilation Kinetics	VT (L)	IC (L)	FVC (L)
Baseline F/V	----	4.29	7.76
Exercise F/V Effort 1	1.62	4.91	---
Exercise F/V Effort 2	3.53	5.15	---

Technologist Comments:

Technician notes are entered here.....

Preliminary Description

Moderate obesity may contribute to decreased exercise capacity. Aerobic capacity is normal. Anaerobic (ventilatory) threshold suggests normal cardiovascular conditioning. The 41 bpm reduction in heart rate at 2 minutes post-exercise indicates normal heart rate recovery. Normal breathing reserve indicates chest bellows capacity is not limiting. No significant oxygen desaturation is noted during exercise.