DATAMASTER DMT 102606

VERMONT DEPARTMENT OF HEALTH LABORATORY

PERFORMANCE TESTING RESULTS

APRIL 30, 2008

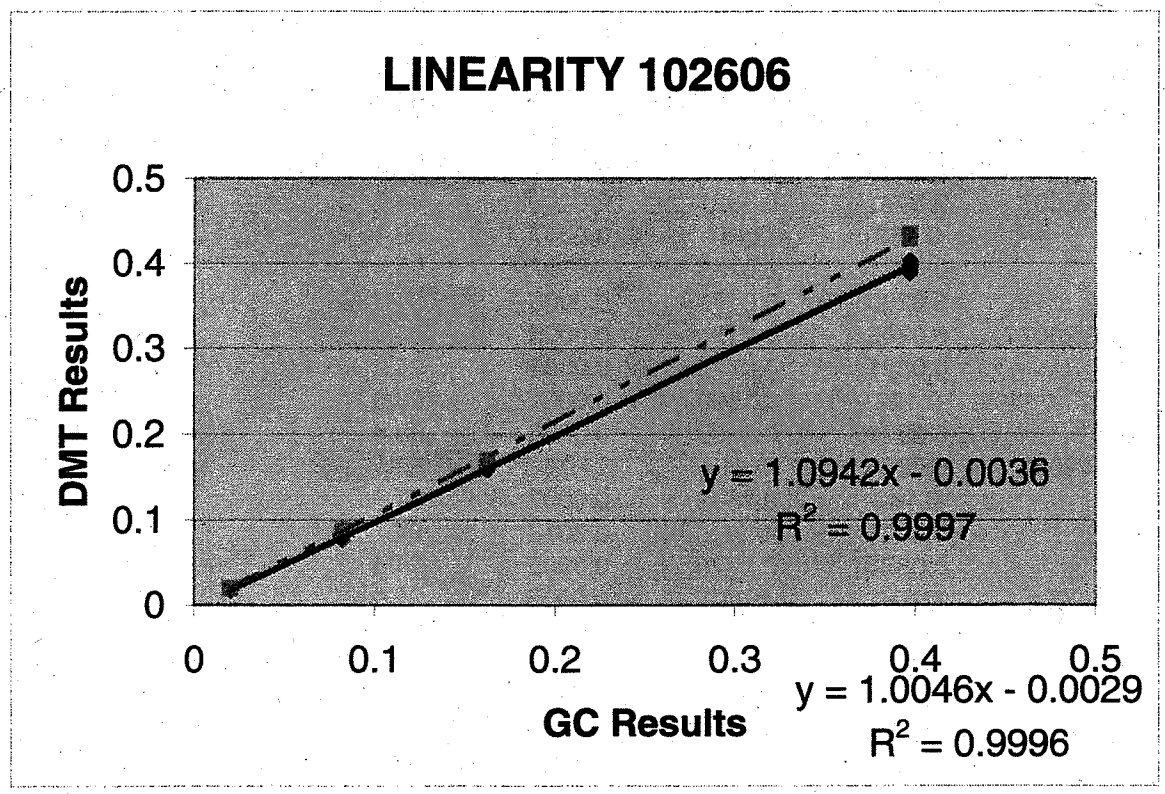
Table of Contents

Section 1: Results	1-1 through 1-7
Section 2: Power-Up Test	2-1 - - - - - - 2-14
Section 3: Software/Reports Test	3-4
Section 4: Linearity	4-54
Section 5: Interference	5-61
Section 6: Mouth Alcohol	6-7
Section 7: Temperature Monitoring	7-2
Section 8: Breath Volume	8-6
Section 9: Low Level Accuracy	9-2
Section 10: Calibration Stability	10-2
Section 11: Error Reports	11-21
Section 12: Live Subject Tests	12-2
Section 13: Communication Notes	13-6

Section 1: Results

102606

Operator	Date	GC Value	DMT Result	Std Dev	% Recovery	
SH	10/15/2007	0.162	0.1652	0.0004	102.0	Outside 5%
		0.3971	0.4034	0.0008	101.6	Outside 10%
		0.0821	0.078	0	95.0	
		0.0205	0.0181	0.0003	88.3	
ALB	10/17/2007	0.0821	0.078	0	95.0	
		0.0205	0.0181	0.0003	88.3	
		0.162	0.1651	0.0003	101.9	
		0.3971	0.403	0.0009	101.5	
DMR	10/19/2007	0.3971	0.3985	0.0011	100.4	
		0.0205	0.018	0	87.8	
		0.162	0.1631	0.0003	100.7	
		0.0821	0.0773	0.0005	94.2	
RJD	10/23/2007	0.162	0.1617	0.0005	99.8	
		0.0205	0.0178	0.0004	86.8	
		0.3971	0.396	0.0007	99.7	
		0.0821	0.0795	0.0005	96.8	
ALB	10/26/2007	0.162	0.1628	0.0004	100.5	
		0.3971	0.3966	0.001	99.9	
		0.0821	0.0795	0.0007	96.8	
		0.0205	0.0178	0.0004	86.8	
HXB	10/29/2007	0.0205	0.017	0.0005	82.9	
		0.3971	0.3937	0.0012	99.1	
		0.162	0.16	0.0005	98.8	
		0.0821	0.0783	0.0007	95.4	
SH	10/31/2007	0.162	0.161	0	99.4	
		0.3971	0.3933	0.0008	99.0	
		0.0821	0.0792	0.0006	96.5	
		0.0205	0.0175	0.0005	85.4	
ALB	11/6/2007	0.3971	0.3921	0.0012	98.7	
		0.162	0.161	0.0007	99.4	
		0.0821	0.0783	0.0007	95.4	
		0.0205	0.0173	0.0005	84.4	
DMR	11/6/2007	0.0205	0.0174	0.0005	84.9	
		0.0821	0.0773	0.0005	94.2	
		0.162	0.1598	0.0004	98.6	
		0.3971	0.3909	0.0006	98.4	
SH	11/7/2007	0.0205	0.017	0	82.9	
		0.162	0.1583	0.0007	97.7	
		0.3971	0.388	0.0013	97.7	
		0.0821	0.0775	0.0005	94.4	
ALB	1/8/2008	0.020	0.019	0.0005	95.0	
		0.162	0.17	0.0005	104.9	
		0.397	0.429	0.0014	108.1	
		0.082	0.087	0	106.1	
ALB	1/9/2008	0.020	0.02	0	100.0	Recal 1/9/08
		0.082	0.088	0.0005	107.3	w/ .1008
		0.162	0.17	0.0007	104.9	
		0.397	0.435	0.0018	109.6	input as .101
					#DIV/0!	


LINEARITY 102606
DMT Results
0.5
0.4
0.3
0.2
0.1
0
0
0.1
0.2
0.3
0.4
0.5
GC Results
y = 1.0942x - 0.0036
R² = 0.9997
y = 1.0046x - 0.0029
R² = 0.9996

Operator	Date	Volume L	DMT Result L
ALB	10/17/2007	1.1	DNAS
		1.2	DNAS
		1.3	DNAS
		1.4	DNAS
		1.5	DNAS
		1.5	DNAS
		1.6	DNAS
		1.6	1.5
		1.7	1.5
		1.8	1.5
		1.9	1.6
		2	1.8
RJD	10/24/2007	1.1	DNAS
		1.2	DNAS
		1.3	DNAS
		1.4	DNAS
		1.5	1.5
		1.6	1.5
		1.7	1.7
		1.8	1.7
		1.9	1.8
		2	1.9
HXB	10/29/2007	1.1	DNAS
		1.2	DNAS
		1.3	DNAS
		1.4	DNAS
		1.5	DNAS
		1.6	1.6
		1.7	1.6
		1.8	1.7
		1.9	1.8
		2	1.7
SH	10/30/2007	1.1	DNAS
		1.2	DNAS
		1.3	DNAS
		1.4	DNAS
		1.5	1.5
		1.6	1.5
		1.7	1.5
		1.8	1.7
		1.9	1.9
		2	2
DMR	11/6/2007	1.1	DNAS
		1.2	DNAS
		1.3	DNAS
		1.4	DNAS
		1.5	1.5
		1.6	1.6
		1.7	1.6
		1.8	1.7

DNAS = did not accept sample

1.9	1.8
2	1.8

Operator	Date	Concentration	Lot Number	DMT Result	Apparent EtOH	N = 10
ALB	11/27/07	0.01 Acetone in water	09-20-070A1	INTERFERENCE	0.004	
RJD	12/07/07	0.01 Acetone in water	09-20-070A1	8 out of 10	0.007	
DMR	01/02/08	0.01 Acetone in water	09-20-070A1	8 out of 10	0.007	
ALB	11/27/07	0.02 Acetone in water	09-20-070A2	INTERFERENCE	0.006	
SH	11/28/07	0.02 Acetone in water	09-20-070A2	INTERFERENCE	0.006	
RJD	12/06/07	0.02 Acetone in water	09-20-070A2	INTERFERENCE	0.007	
SH	11/28/08	.01 Acetone in .08 EtOH	07-09-080A1	4 OUT OF 10	0.079	
RJD	12/07/07	.01 Acetone in .08 EtOH	07-09-080A1	1 out of 10	0.082	
DMR	01/02/08	.01 Acetone in .08 EtOH	07-09-080A1	0 out of 10	0.078	
ALB	11/27/07	.01 Acetone in .04 EtOH	07-14-040A1	9 OUT OF 10	0.044	
ALB	11/27/07	.01 Acetone in .04 EtOH	07-14-040A1	8 out of 10	0.045	
ALB	03/05/08	.02Acetone in .08 EtOH	07-09-080A2	INTERFERENCE		
SH	03/05/08	.02Acetone in .08 EtOH	07-09-080A2	INTERFERENCE		
ALB	03/05/08	.02 Acetone in .04 EtOH	07-14-040B	INTERFERENCE		
HXB	03/05/08	.02 Acetone in .04 EtOH	07-14-040B	INTERFERENCE		
ALB	03/05/08	.04 MeOH in water	08-12-040M	INTERFERENCE		
DMR	03/05/08	.04 MeOH in water	08-12-040M	INTERFERENCE		
ALB	03/07/08	.04 MeOH in .08 EtOH	07-09-080M4	INTERFERENCE		
SH	03/07/08	.04 MeOH in .08 EtOH	07-09-080M4	INTERFERENCE		
ALB	03/06/08	.04 IPA in water	08-13-040I	INTERFERENCE		
DMR	03/06/08	.04 IPA in water	08-13-040I	INTERFERENCE		
RJD	03/06/08	.04 IPA in .08 EtOH	07-09-080I4	INTERFERENCE		
ALB	03/06/08	.04 IPA in .08 EtOH	07-09-080I4	INTERFERENCE		

Operator	Date	DMT Result	
RJD	10/29/2007	Invalid	.40 tygon 10min .0821 sim
		0.086	
		Invalid	recharged tube
		0.084	
		0.083	
		0.083	
HXB	10/29/2007	Invalid	.40 tygon 10min .0821 sim
		Invalid	
		0.089	
		0.088	
		0.085	
		0.083	
SH	11/1/2007	Invalid	.40 tygon 10min .0821 sim
		Invalid	
		0.082	
		0.079	
		0.077	
		0.078	
ALB	11/5/2007	Invalid	.40 tygon 10min .0821 sim
		Invalid	
		Invalid	
		Invalid	
		0.077	
		0.076	
DMR	11/7/2007	Invalid	.40 tygon 10min .0821 sim
		Invalid	
		Invalid	
		Invalid	
		Invalid	
		Invalid	
		Invalid	
		Invalid	
		Invalid	
		Invalid	
		0.074	

Section 2: Power-Up Test

National Patent Analytical Systems, Inc.

Certificate of Calibration

102606

Instrument Serial Number

2017

Standard Reference Number

The above instrument has been calibrated and is hereby certified for use in determining alcohol breath concentration when used in accordance with the operating guidelines by a properly trained operator.

10-9-07

Date

Technician

CALIBRATION REPORT

DataMaster DMT: 102606
Calibration Date: 10/09/2007
Calibrated by: C C C

VERMONT
DEPARTMENT OF HEALTH

Ca	=	0.100000						
CAL	=	1.003443	0.800	<=	CAL	<	1.200
b1	=	0.000266	0.000	<=	b1	<	0.004
b2	=	0.004736	0.002	<=	b2	<	0.013
b3	=	0.000418	0.000	<=	b3	<	0.004
Xq	=	0.139370	0.050	<=	Xq	<	0.200
a21	=	1.143678	1.050	<=	a21	<	1.300
a31	=	0.637371	0.300	<=	a31	<	0.800

Performed by _____ **Date** 10/09/2007

CALIBRATION REPORT

DataMaster DMT: 102606
Calibration Date: 10/09/2007
Calibrated by: T T Y

VERMONT
DEPARTMENT OF HEALTH

Ca	=	0.100000	
CAL	=	0.993845	0.800 <= CAL < 1.200
b1	=	0.000000	0.000 <= b1 < 0.004
b2	=	0.004349	0.002 <= b2 < 0.013
b3	=	0.000000	0.000 <= b3 < 0.004
Xq	=	0.138925	0.050 <= Xq < 0.200
a21	=	1.148243	1.050 <= a21 < 1.300
a31	=	0.455614	0.300 <= a31 < 0.800

Performed by **Date** 10/09/2007

DIAGNOSTIC RESULT

DataMaster DMT: 102606
Location: VDHL
Calibration Date:
Certification Date: 10/09/2007
Installation Date: 10/09/2007
Test Date: 10/11/2007
Time: 14:44

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.26
PIC 2.03
Questions 1.0
Reports 1.3

TEMPERATURES
Sample Chamber = 48.9 C
Breath Tube    = 48.1 C
Simulator Hose =  0.0 C
Digital Sim    = 34.1 C

SETTINGS
Lamp Voltage   = 2.34 V
Cooler Voltage = 1.98 V
Bias Voltage   = 121.1 V
Chopper Freq   = 540.7 Hz

PUMP INFO
Flow Rate = 4.508 L/M

DETECTOR INFO
PUMP     ON       OFF
MAX(V)   0.2551   0.2561
MIN(V)   0.2526   0.2539

FILTER INFO
Filter 1  0.254  Zero = true
Filter 2  0.613  Zero = true
Filter 3  1.439  Zero = true

INTERNAL STANDARD
Xq = 0.1399  0.71%
```

OPTIONS PRINT OUT

DataMaster DMT: 102606
Location: VDHL
Calibration Date: 20071009
Certification Date: 10/09/2007
Installation Date: 10/09/2007

VERMONT
DEPARTMENT OF HEALTH

```
Printer: no
Number of Copies: 1
Number of Supervisor Tests: 10
Tolerance Check: yes
Data Collection: yes
Units: g/210L
Simulator Check: yes
Uses Wet Bath Simulator: yes
Simulator Nominal: 0.162
Digital Simulator: guth
Simulator Before: yes
Simulator Between: yes
Simulator After: no
Number of Subject Tests: 2
AskQuestions: yes
Query Refusal: yes
Alcohol Display: yes
Show Two Digits: no
Volume Display: yes
Number of Calibration Tests: 2
Calibrate with Wet Bath: yes
Calibration Nominal: 0.100
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

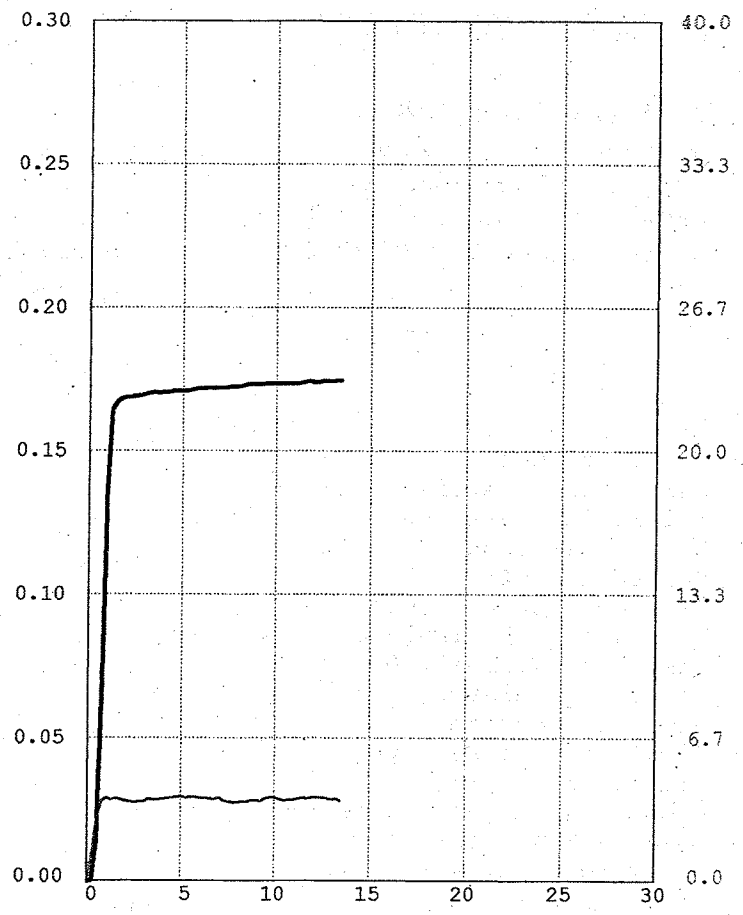
Date: 10/11/2007
Time: 14:47:54

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST	0.000	14:48
INTERNAL STANDARD	PASSED	14:48
Xq = 0.1400 (0.84%)		
SIMULATOR VAPOR (34.1°C)	0.170	14:49
X[1] = 0.1709 (0.0010) (0.0037)		

STANDARD OUT OF RANGE



10/11/2007 15:04

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

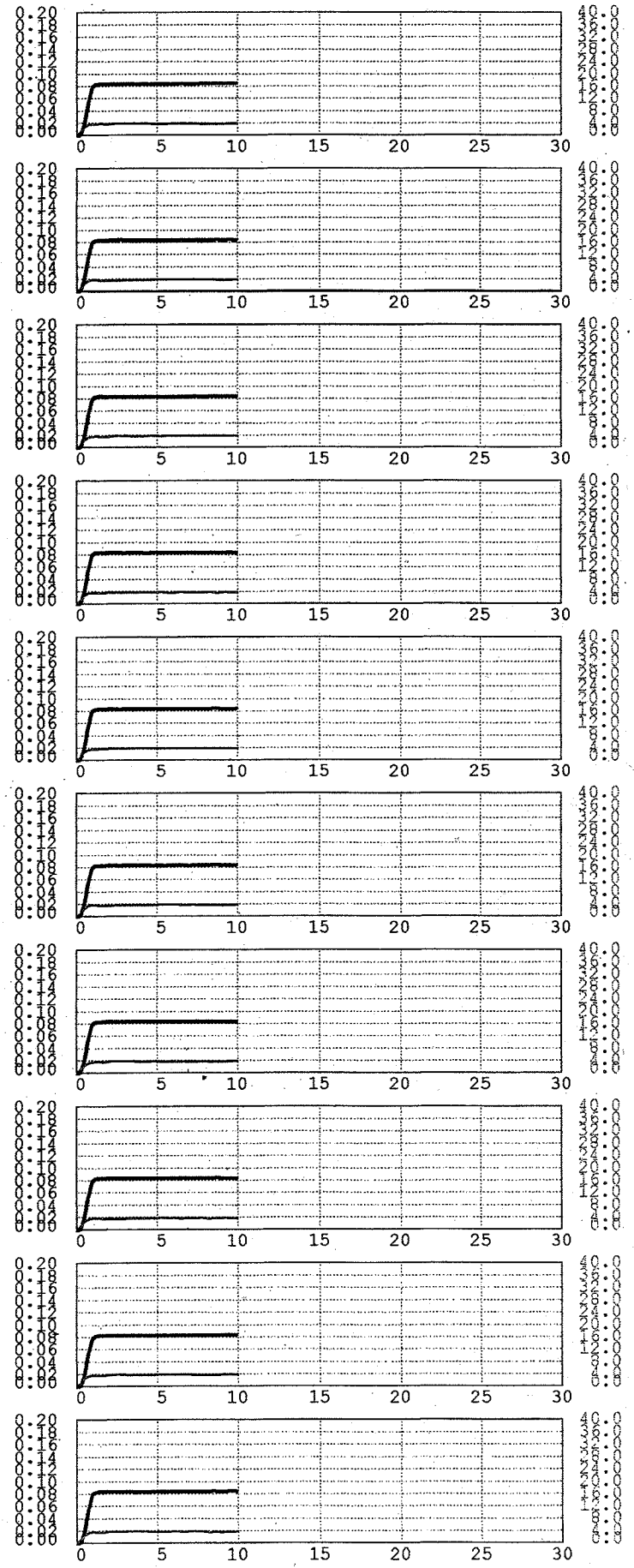
Date: 10/11/2007
Time: 14:51:52

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST		0.000	14:52
INTERNAL STANDARD		PASSED	14:52
Xq = 0.1396 (0.51%)			
SIMULATOR VAPOR (34.0°C)		0.081	14:53
X[1] = 0.0813	(-0.0011)	(0.0009)	
SIMULATOR VAPOR (34.0°C)		0.081	14:54
X[1] = 0.0812	(-0.0009)	(0.0015)	
SIMULATOR VAPOR (33.9°C)		0.080	14:55
X[1] = 0.0809	(-0.0006)	(0.0010)	
SIMULATOR VAPOR (33.9°C)		0.081	14:56
X[1] = 0.0819	(-0.0011)	(0.0011)	
SIMULATOR VAPOR (34.0°C)		0.081	14:57
X[1] = 0.0814	(0.0008)	(0.0017)	
SIMULATOR VAPOR (33.9°C)		0.081	14:58
X[1] = 0.0813	(-0.0009)	(0.0015)	
SIMULATOR VAPOR (34.0°C)		0.081	14:59
X[1] = 0.0817	(-0.0002)	(0.0016)	
SIMULATOR VAPOR (34.0°C)		0.080	15:00
X[1] = 0.0809	(-0.0002)	(0.0017)	
SIMULATOR VAPOR (34.0°C)		0.080	15:01
X[1] = 0.0807	(-0.0008)	(0.0011)	
SIMULATOR VAPOR (33.9°C)		0.081	15:02
X[1] = 0.0817	(-0.0009)	(0.0010)	
BLANK TEST		0.000	15:02

Average = 0.0807
Std Dev = 0.0005



DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606
VDHL
Certification Date: 10/09/2007
Installation Date: 10/09/2007

Date: 10/11/2007
Time: 15:06:17

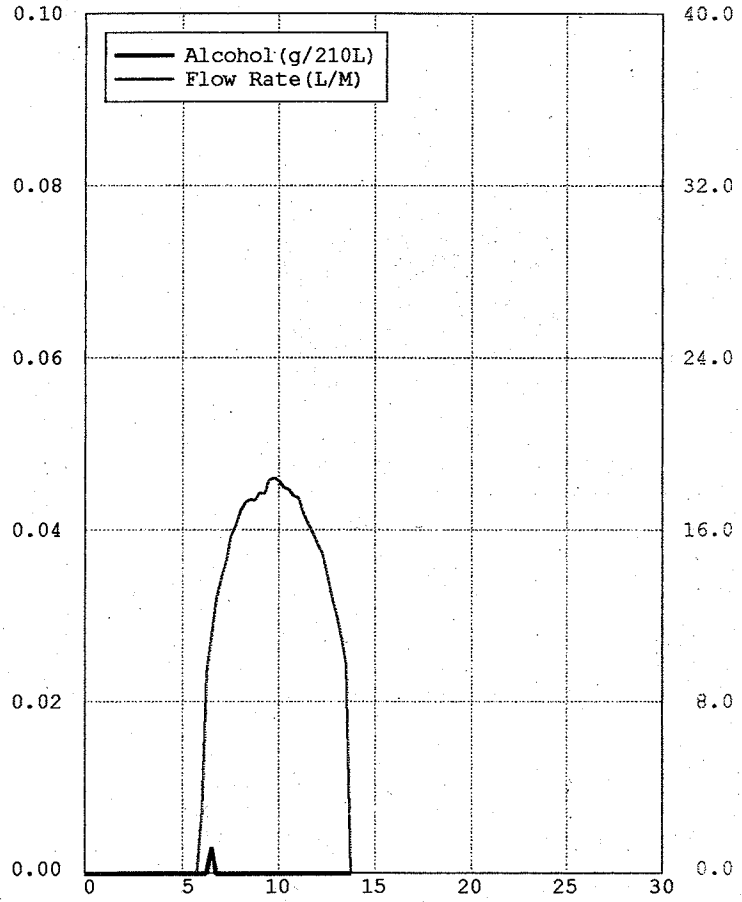
Subject Name: POWER UP TEST
Date of Birth: 10/11/2007 Age: 0
Guardian Present: N
Gender: F
License #: 1 VT

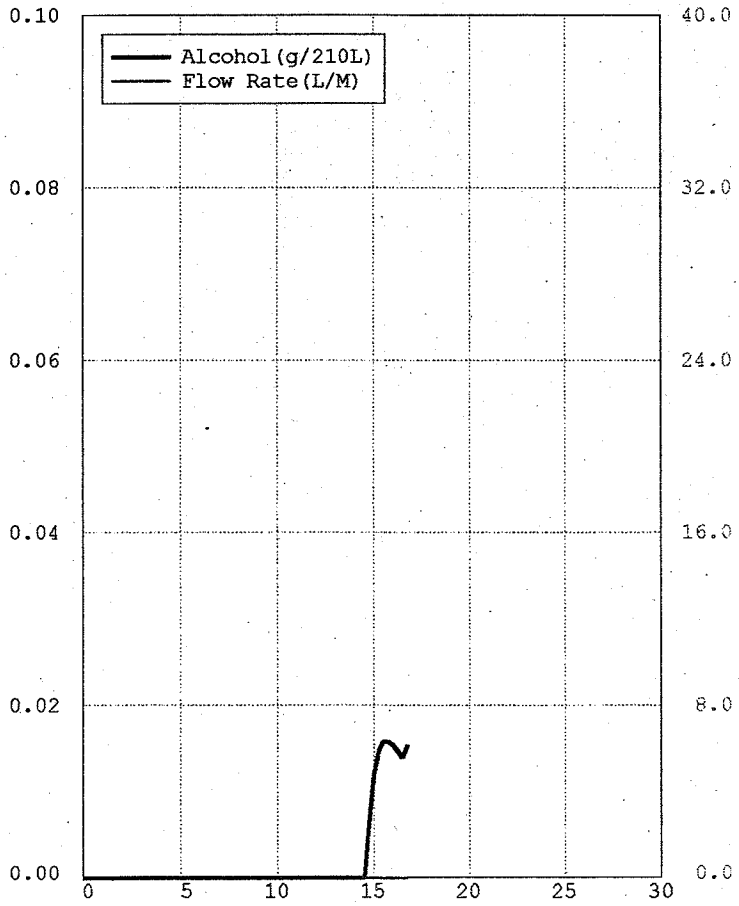
Case #: 1
Time of Operation: 15:00
Location of Incident:
Town: ADDISON
County: ADDISON

Test Operator Name: A L B
Agency: VDHL

Obs. Period Start:		15:06
BLANK TEST	0.000	15:07
INTERNAL STANDARD	PASSED	15:07
Xq = 0.1403 (1.03%)		
SIMULATOR VAPOR	0.081	15:07
X[1] = 0.0813 (0.0004) (0.0005)		
BLANK TEST	0.000	15:08
SUBJECT SAMPLE (Vol=1.9L)	0.000	15:08
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	15:09
INTERNAL STANDARD	PASSED	15:09
Xq = 0.1396 (0.51%)		
SIMULATOR VAPOR	0.081	15:09
X[1] = 0.0810 (0.0003) (0.0021)		
BLANK TEST	0.000	15:10

RFI DETECTED
All alcohol values reported in g/210L
Sim. Vapor Concentration 0.082
Sim. Vapor Range 0.078 - 0.086
Simulator Temp 33.9°C





10/11/2007 15:11

CALIBRATION REPORT

DataMaster DMT: 102606
Calibration Date: 10/15/2007
Calibrated by: S E H

VERMONT
DEPARTMENT OF HEALTH

Ca	=	0.101000				
CAL	=	0.981700	0.800	<=	CAL	< 1.200
b1	=	0.000595	0.000	<=	b1	< 0.004
b2	=	0.003962	0.002	<=	b2	< 0.013
b3	=	0.000000	0.000	<=	b3	< 0.004
Xq	=	0.139727	0.050	<=	Xq	< 0.200
a21	=	1.174791	1.050	<=	a21	< 1.300
a31	=	0.443774	0.300	<=	a31	< 0.800

Performed by _____ **Date** 10/15/2007

10/15/2007 11:43

2-10

CALIBRATION REPORT

DataMaster DMT: 102606
Calibration Date: 01/08/2008
Calibrated by: A L B

VERMONT
DEPARTMENT OF HEALTH

Ca =	0.100000		
CAL =	1.036394	0.800 <= CAL < 1.200	
b1 =	0.001922	0.000 <= b1 < 0.004	
b2 =	0.004987	0.002 <= b2 < 0.013	
b3 =	0.002685	0.000 <= b3 < 0.004	
Xq =	0.134549	0.050 <= Xq < 0.200	
a21 =	1.169801	1.050 <= a21 < 1.300	
a31 =	0.441921	0.300 <= a31 < 0.800	

Performed by _____ **Date** 01/08/2008

04/30/2008 09:06

2-11

CALIBRATION REPORT

DataMaster DMT: 102606
Calibration Date: 01/09/2008
Calibrated by: A L B

VERMONT
DEPARTMENT OF HEALTH

Ca	=	0.101000						
CAL	=	1.052198	0.800	<=	CAL	<	1.200
b1	=	0.001797	0.000	<=	b1	<	0.004
b2	=	0.005385	0.002	<=	b2	<	0.013
b3	=	0.001264	0.000	<=	b3	<	0.004
Xq	=	0.134192	0.050	<=	Xq	<	0.200
a21	=	1.150089	1.050	<=	a21	<	1.300
a31	=	0.456025	0.300	<=	a31	<	0.800

Performed by _____ **Date** 01/09/2008

04/30/2008 09:07

CALIBRATION REPORT

DataMaster DMT: 102606
Calibration Date: 01/15/2008
Calibrated by:

VERMONT
DEPARTMENT OF HEALTH

Ca	=	0.100000	
CAL	=	0.953942	0.800 <= CAL < 1.200
b1	=	0.001766	0.000 <= b1 < 0.004
b2	=	0.005390	0.002 <= b2 < 0.013
b3	=	0.002539	0.000 <= b3 < 0.004
Xq	=	0.123873	0.050 <= Xq < 0.200
a21	=	1.162344	1.050 <= a21 < 1.300
a31	=	0.444345	0.300 <= a31 < 0.800

Performed by **Date** _____

2-13
~~2-4~~ 2

04/30/2008 09:07

CALIBRATION REPORT

DataMaster DMT: 102606
Calibration Date: 01/29/2008
Calibrated by:

VERMONT
DEPARTMENT OF HEALTH

Ca	=	0.100000	
CAL	=	0.977912	0.800 <= CAL < 1.200
b1	=	0.001922	0.000 <= b1 < 0.004
b2	=	0.004956	0.002 <= b2 < 0.013
b3	=	0.002863	0.000 <= b3 < 0.004
Xq	=	0.112372	0.050 <= Xq < 0.200
a21	=	1.165728	1.050 <= a21 < 1.300
a31	=	0.447530	0.300 <= a31 < 0.800

Performed by **Date** _____

04/30/2008 09:08

2-14
~~2-3~~

Section 3: Software/Reports Test

CALIBRATION REPORT

DataMaster DMT: 102606
Calibration Date: 01/29/2008
Calibrated by:

VERMONT
DEPARTMENT OF HEALTH

Ca	=	0.100000	
CAL	=	0.977912	0.800 <= CAL < 1.200
b1	=	0.001922	0.000 <= b1 < 0.004
b2	=	0.004956	0.002 <= b2 < 0.013
b3	=	0.002863	0.000 <= b3 < 0.004
Xq	=	0.112372	0.050 <= Xq < 0.200
a21	=	1.165728	1.050 <= a21 < 1.300
a31	=	0.447530	0.300 <= a31 < 0.800

did not query
Sig
AD

Performed by **Date** _____

01/29/2008 10:52

3-2

CERTIFICATION REPORT

DataMaster DMT: 102606
Calibration Date:
Certification Date: 01/29/2008
Certified by: D M R

VERMONT
DEPARTMENT OF HEALTH

Diagnostic Results

VERSIONS
DMT 0.29
PIC 2.04
Modem 1.00
Questions 1.00
Reports 0.03

TEMPERATURES
Sample Chamber = 48.97°C
Breath Tube = 47.72°C
Digital Sim = 0.0°C

SETTINGS
Lamp Voltage = 2.25 V
Cooler Voltage = 2.23 V
Bias Voltage = 120.1 V
Chopper Freq = 547.9 Hz

PUMP INFO
Flow Rate = 3.999 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0508	0.0533
MIN(V)	0.0480	0.0494

FILTER INFO
Filter 1 0.051 Zero = true
Filter 2 0.413 Zero = true
Filter 3 0.051 Zero = true

INTERNAL STANDARD
Xq = 0.1121 0.24%

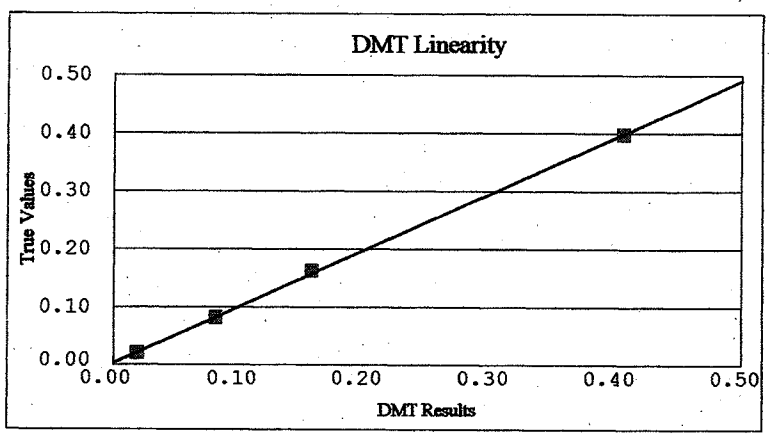
Options

Printer: yes
Number of Copies: 3
Number of Supervisor Tests: 10
Tolerance Check: yes
Data Collection: yes
Units: g/210L
Simulator Check: yes
Uses Wet Bath Simulator: yes
Simulator Nominal: 0.100
Dry Gas PPM: 260.500 — remove
Digital Simulator: none
Simulator Before: yes
Simulator Between: yes
Simulator After: no
Number of Subject Tests: 2
AskQuestions: yes
Query Refusal: yes
Alcohol Display: yes
Show Two Digits: no
Volume Display: yes
Number of Calibration Tests: 1
Calibrate with Wet Bath: yes
Calibration Nominal: 0.100
Calibration PPM: 260.500 — remove

Linearity Check Results

True Value	Reported Average	Std Dev
0.020g/210L Lot # 07-15-020	0.019g/210L	0.0006
0.082g/210L Lot # 07-09-080	0.081g/210L	0.0000
0.162g/210L Lot # 07-08-160	0.158g/210L	0.0006
0.397g/210L Lot # 07-12-400	0.405g/210L	0.0021

$R^2 = 0.9996$



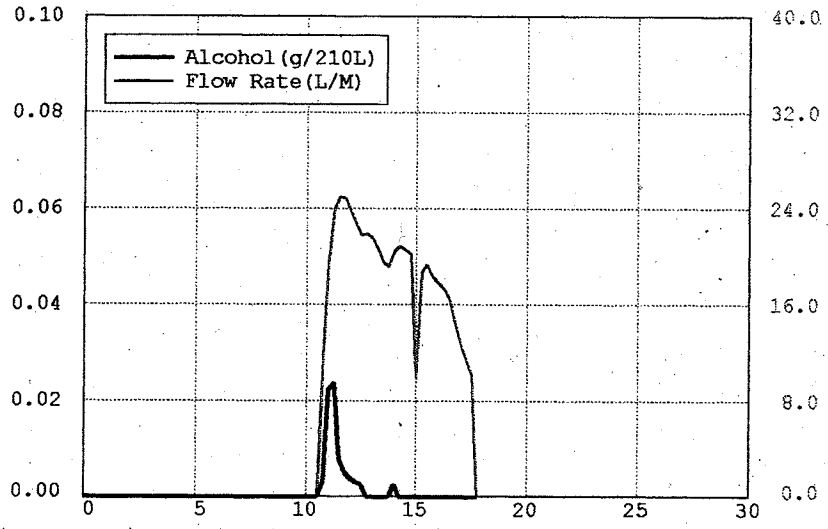
Acetone Interference Test

Lot # 02-02-020

Interference Detected

Mouth Alcohol Test

Mouth Alcohol Detected

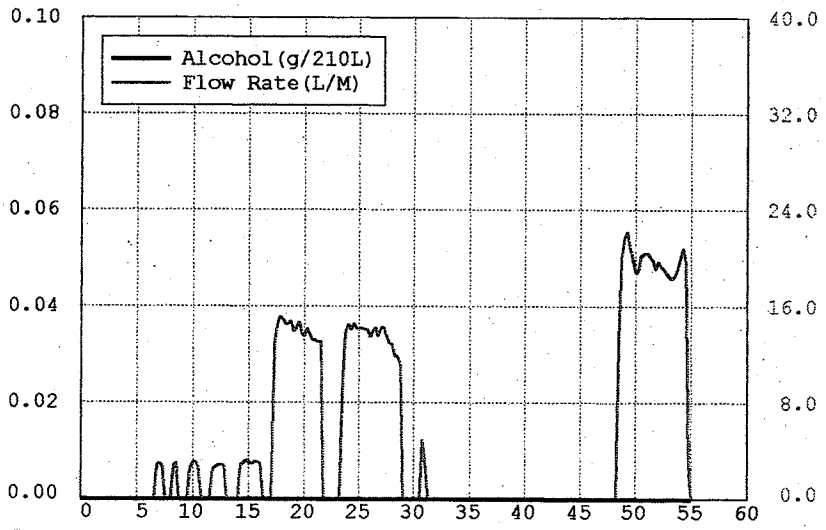


RFI Interference Test

RFI detected

Sample Acceptance Test

Passed



CERTIFICATION PASSED

Performed by Nancy Mathews **Date** 01/29/2008

Reviewed by _____ **Date** _____

Section 4: Linearity

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

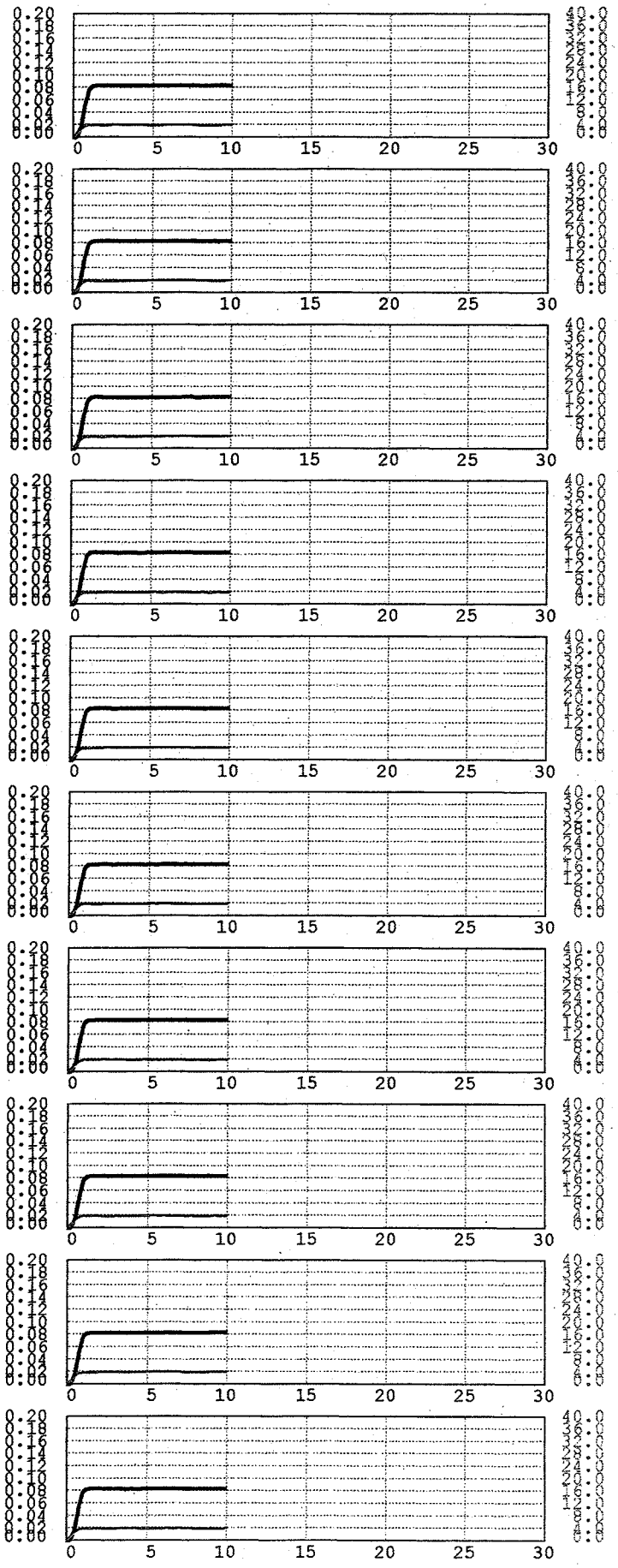
Date: 10/11/2007
Time: 14:51:52

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST		0.000	14:52
INTERNAL STANDARD		PASSED	14:52
Xq = 0.1396 (0.51%)			
SIMULATOR VAPOR	(34.0°C)	0.081	14:53
X[1] = 0.0813	(-0.0011)	(0.0009)	
SIMULATOR VAPOR	(34.0°C)	0.081	14:54
X[1] = 0.0812	(-0.0009)	(0.0015)	
SIMULATOR VAPOR	(33.9°C)	0.080	14:55
X[1] = 0.0809	(-0.0006)	(0.0010)	
SIMULATOR VAPOR	(33.9°C)	0.081	14:56
X[1] = 0.0819	(-0.0011)	(0.0011)	
SIMULATOR VAPOR	(34.0°C)	0.081	14:57
X[1] = 0.0814	(0.0008)	(0.0017)	
SIMULATOR VAPOR	(33.9°C)	0.081	14:58
X[1] = 0.0813	(-0.0009)	(0.0015)	
SIMULATOR VAPOR	(34.0°C)	0.081	14:59
X[1] = 0.0817	(-0.0002)	(0.0016)	
SIMULATOR VAPOR	(34.0°C)	0.080	15:00
X[1] = 0.0809	(-0.0002)	(0.0017)	
SIMULATOR VAPOR	(34.0°C)	0.080	15:01
X[1] = 0.0807	(-0.0008)	(0.0011)	
SIMULATOR VAPOR	(33.9°C)	0.081	15:02
X[1] = 0.0817	(-0.0009)	(0.0010)	
BLANK TEST		0.000	15:02

Average = 0.0807
Std Dev = 0.0005



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

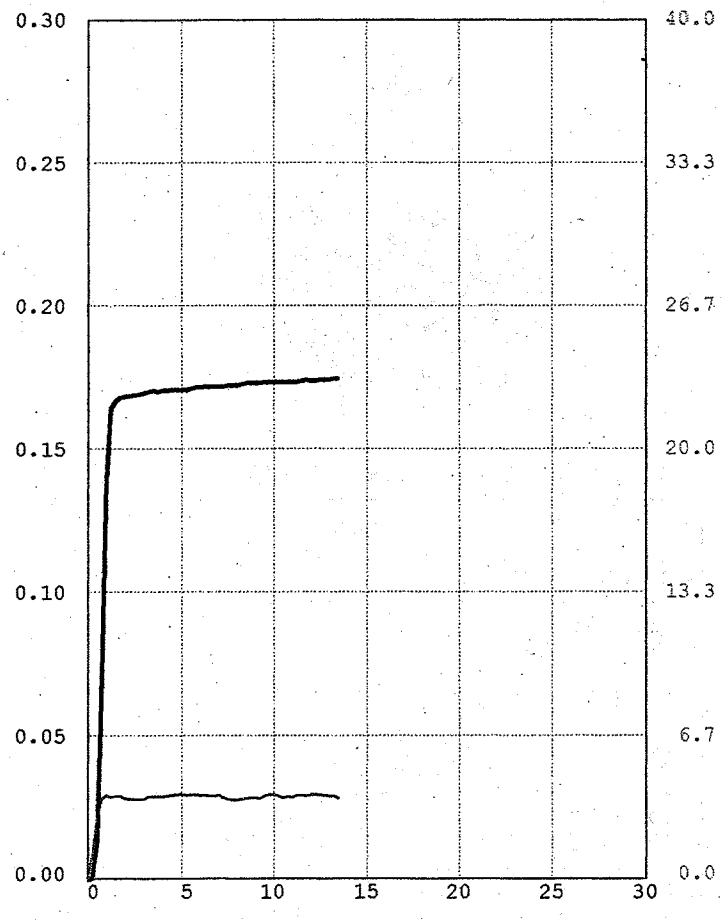
Date: 10/11/2007
Time: 14:47:54

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST	0.000	14:48
INTERNAL STANDARD	PASSED	14:48
Xq = 0.1400 (0.84%)		
SIMULATOR VAPOR (34.1°C)	0.170	14:49
X[1] = 0.1709 (0.0010) (0.0037)		

STANDARD OUT OF RANGE



04/30/2008 09:18

DIAGNOSTIC RESULT

DataMaster DMT: 102606
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 10/15/2007
Time: 14:46

VERMONT
DEPARTMENT OF HEALTH

VERSIONS
DMT 1.26
PIC 2.03
Questions 1.0
Reports 1.3

TEMPERATURES
Sample Chamber = 49.0 C
Breath Tube = 47.7 C
Simulator Hose = 0.0 C
Digital Sim = 34.1 C

SETTINGS
Lamp Voltage = 2.33 V
Cooler Voltage = 1.98 V
Bias Voltage = 121.1 V
Chopper Freq = 543.0 Hz

PUMP INFO
Flow Rate = 4.507 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.2654	0.2667
MIN(V)	0.2634	0.2648

FILTER INFO
Filter 1 0.264 Zero = true
Filter 2 0.619 Zero = true
Filter 3 1.442 Zero = true

INTERNAL STANDARD
Xq = 0.1396 0.06%

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

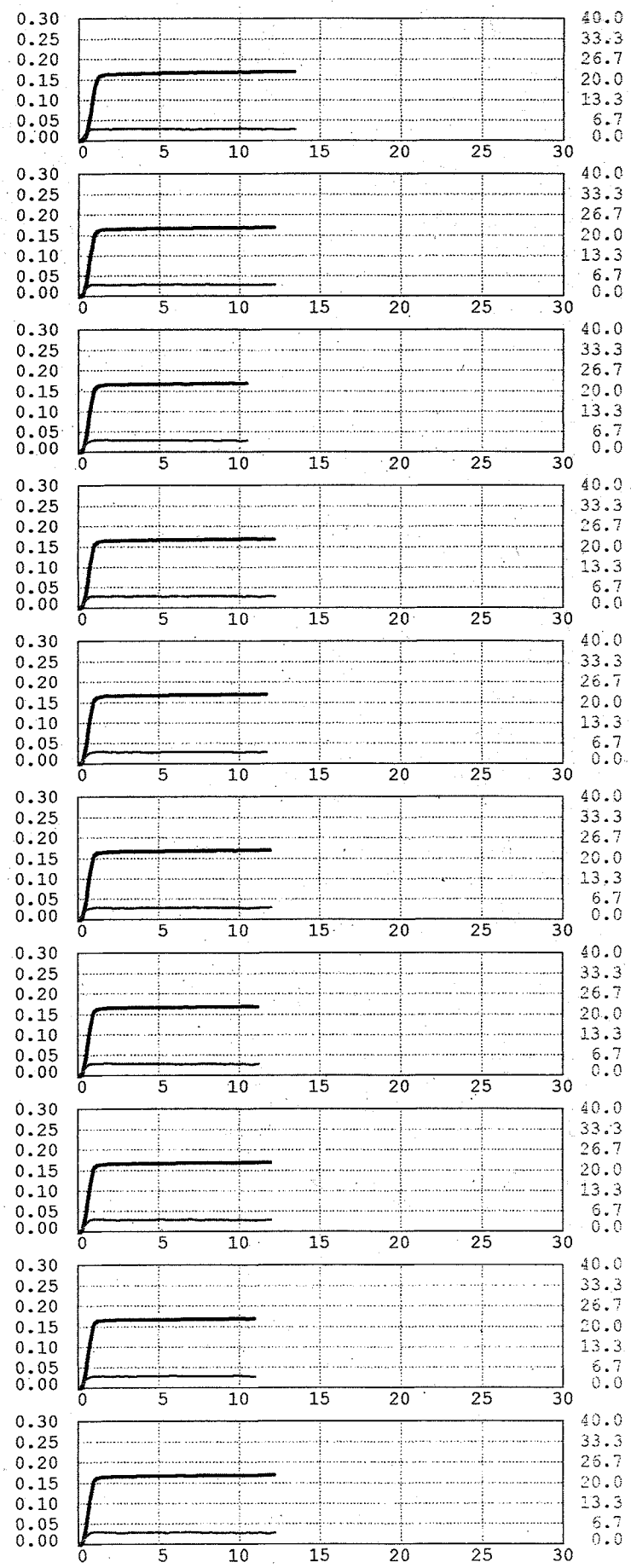
Date: 10/15/2007
Time: 11:31:35

SUPERVISOR NAME: S E H

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST		0.000	11:32
INTERNAL STANDARD		PASSED	11:32
Xq = 0.1392 (0.32%)			
SIMULATOR VAPOR (34.1°C)		0.166	11:32
X[1] = 0.1664 (0.0031)	(0.0010)		
SIMULATOR VAPOR (34.0°C)		0.165	11:34
X[1] = 0.1655 (0.0025)	(0.0008)		
SIMULATOR VAPOR (34.0°C)		0.165	11:35
X[1] = 0.1652 (0.0024)	(0.0004)		
SIMULATOR VAPOR (34.0°C)		0.165	11:36
X[1] = 0.1653 (0.0013)	(0.0004)		
SIMULATOR VAPOR (34.0°C)		0.165	11:37
X[1] = 0.1657 (0.0025)	(-0.0001)		
SIMULATOR VAPOR (34.0°C)		0.165	11:38
X[1] = 0.1654 (0.0017)	(0.0003)		
SIMULATOR VAPOR (34.0°C)		0.165	11:39
X[1] = 0.1654 (0.0031)	(0.0005)		
SIMULATOR VAPOR (34.1°C)		0.166	11:40
X[1] = 0.1661 (0.0014)	(0.0005)		
SIMULATOR VAPOR (34.1°C)		0.165	11:41
X[1] = 0.1654 (0.0024)	(0.0001)		
SIMULATOR VAPOR (34.0°C)		0.165	11:42
X[1] = 0.1651 (0.0021)	(0.0009)		
BLANK TEST		0.000	11:42

Average = 0.1652
Std Dev = 0.0004



10/15/2007 11:44

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

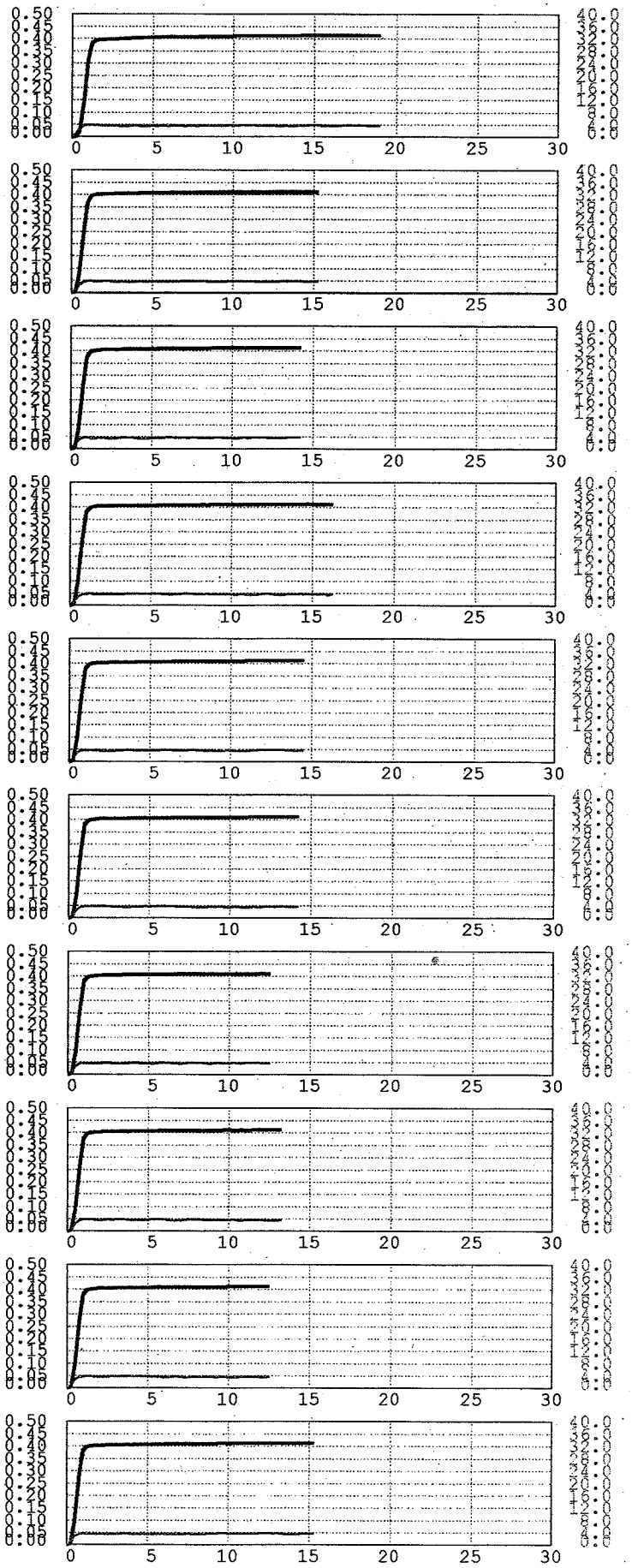
Date: 10/15/2007
Time: 12:09:44

SUPERVISOR NAME: S E H

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST		0.000	12:10
INTERNAL STANDARD		PASSED	12:10
Xq = 0.1395	(0.13%)		
SIMULATOR VAPOR	(34.0°C)	0.405	12:11
X[1] = 0.4055	(0.0097)	(0.0032)	
SIMULATOR VAPOR	(33.9°C)	0.403	12:12
X[1] = 0.4039	(0.0094)	(0.0034)	
SIMULATOR VAPOR	(33.9°C)	0.404	12:13
X[1] = 0.4049	(0.0121)	(0.0023)	
SIMULATOR VAPOR	(33.9°C)	0.404	12:14
X[1] = 0.4045	(0.0110)	(0.0031)	
SIMULATOR VAPOR	(33.9°C)	0.403	12:15
X[1] = 0.4036	(0.0114)	(0.0022)	
SIMULATOR VAPOR	(33.9°C)	0.403	12:16
X[1] = 0.4039	(0.0111)	(0.0033)	
SIMULATOR VAPOR	(33.9°C)	0.403	12:17
X[1] = 0.4034	(0.0115)	(0.0024)	
SIMULATOR VAPOR	(34.0°C)	0.404	12:18
X[1] = 0.4047	(0.0120)	(0.0030)	
SIMULATOR VAPOR	(33.9°C)	0.402	12:19
X[1] = 0.4029	(0.0117)	(0.0023)	
SIMULATOR VAPOR	(34.0°C)	0.403	12:20
X[1] = 0.4037	(0.0095)	(0.0021)	
BLANK TEST		0.000	12:21

Average = 0.4034
Std Dev = 0.0008



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

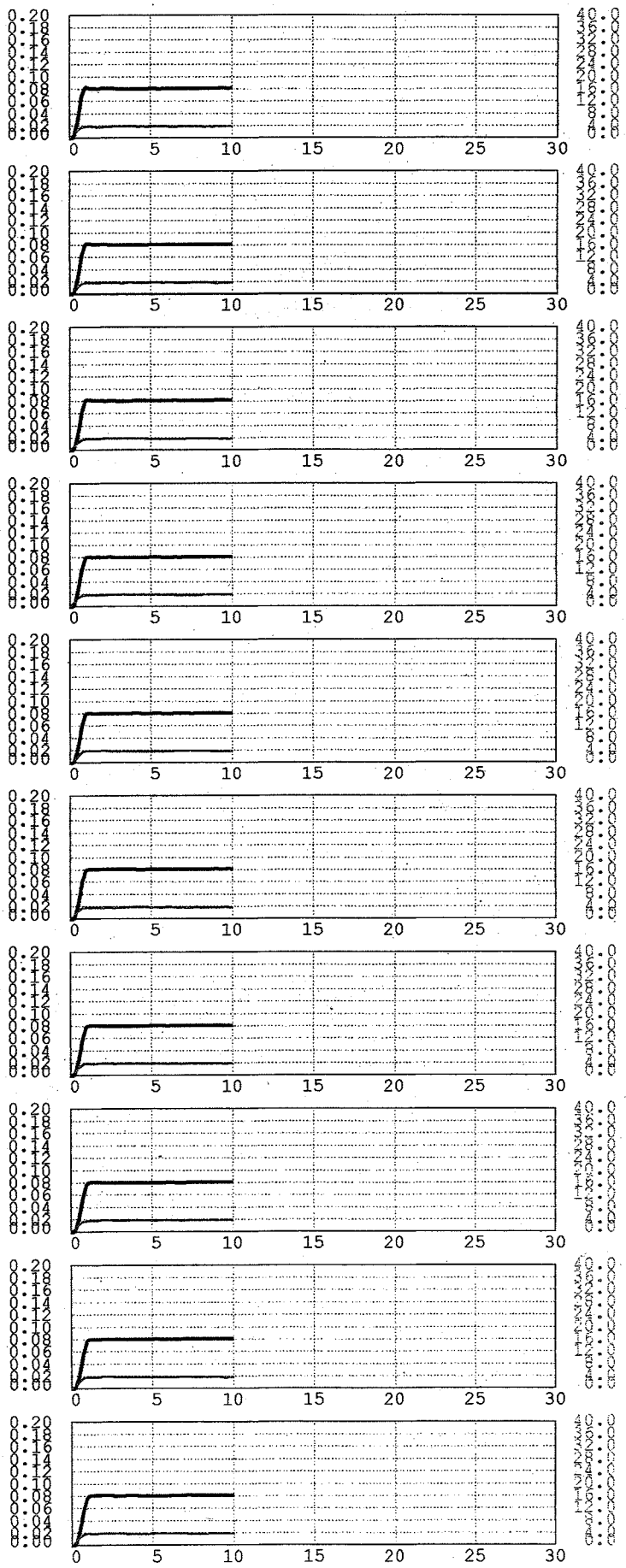
Date: 10/15/2007
Time: 12:28:09

SUPERVISOR NAME: S E H

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST	0.000	12:29
INTERNAL STANDARD	PASSED	12:29
Xq = 0.1401 (0.32%)		
SIMULATOR VAPOR (34.0°C)	0.078	12:29
X[1] = 0.0782 (0.0001) (0.0015)		
SIMULATOR VAPOR (33.9°C)	0.078	12:30
X[1] = 0.0785 (0.0001) (-0.0001)		
SIMULATOR VAPOR (34.0°C)	0.078	12:31
X[1] = 0.0785 (0.0000) (0.0011)		
SIMULATOR VAPOR (34.0°C)	0.078	12:32
X[1] = 0.0785 (-0.0003) (-0.0002)		
SIMULATOR VAPOR (34.0°C)	0.078	12:33
X[1] = 0.0782 (-0.0005) (-0.0001)		
SIMULATOR VAPOR (33.9°C)	0.078	12:34
X[1] = 0.0789 (0.0007) (0.0003)		
SIMULATOR VAPOR (34.0°C)	0.078	12:35
X[1] = 0.0788 (0.0002) (0.0002)		
SIMULATOR VAPOR (34.0°C)	0.078	12:36
X[1] = 0.0781 (-0.0001) (-0.0007)		
SIMULATOR VAPOR (33.9°C)	0.078	12:37
X[1] = 0.0788 (-0.0006) (0.0000)		
SIMULATOR VAPOR (33.9°C)	0.078	12:38
X[1] = 0.0784 (0.0003) (-0.0006)		
BLANK TEST	0.000	12:38

Average = 0.0780
Std Dev = 0.0000



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

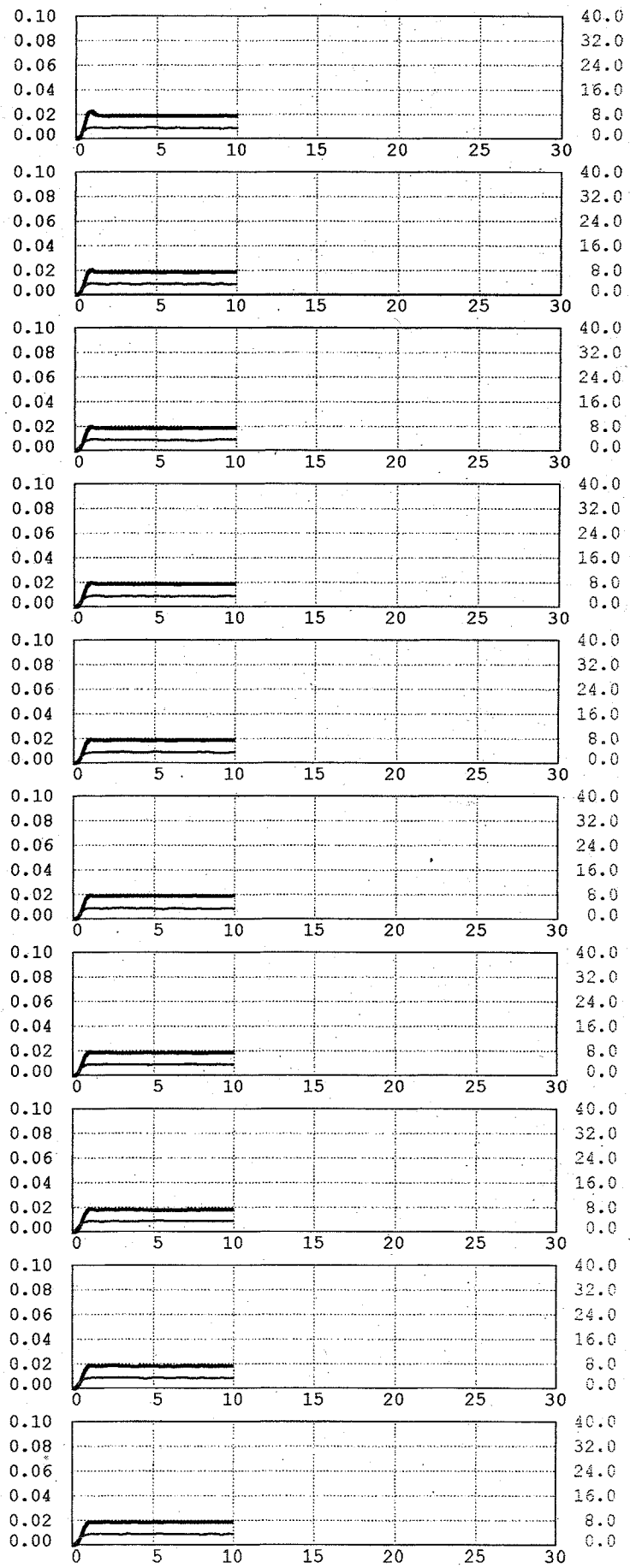
Date: 10/15/2007
Time: 12:58:05

SUPERVISOR NAME: S E H

SOLUTION LOT #: 07-15-020 10/25/07
SOLUTION CONCENTRATION: ~~0.022~~ .0205

BLANK TEST	0.000	12:59
INTERNAL STANDARD	PASSED	12:59
Xq = 0.1392 (0.32%)		
SIMULATOR VAPOR (33.8°C)	0.019	12:59
X[1] = 0.0190 (-0.0020) (-0.0001)		
SIMULATOR VAPOR (33.8°C)	0.018	13:00
X[1] = 0.0185 (-0.0022) (0.0014)		
SIMULATOR VAPOR (33.8°C)	0.018	13:01
X[1] = 0.0181 (-0.0017) (0.0007)		
SIMULATOR VAPOR (33.8°C)	0.018	13:02
X[1] = 0.0186 (-0.0023) (0.0004)		
SIMULATOR VAPOR (33.8°C)	0.018	13:03
X[1] = 0.0184 (-0.0010) (-0.0004)		
SIMULATOR VAPOR (33.7°C)	0.018	13:04
X[1] = 0.0186 (-0.0020) (-0.0004)		
SIMULATOR VAPOR (33.8°C)	0.018	13:05
X[1] = 0.0183 (-0.0018) (-0.0002)		
SIMULATOR VAPOR (33.8°C)	0.018	13:06
X[1] = 0.0181 (-0.0029) (0.0008)		
SIMULATOR VAPOR (33.8°C)	0.018	13:07
X[1] = 0.0180 (-0.0017) (-0.0003)		
SIMULATOR VAPOR (33.8°C)	0.018	13:08
X[1] = 0.0184 (-0.0020) (0.0001)		
BLANK TEST	0.000	13:08

Average = 0.0181
Std Dev = 0.0003



DIAGNOSTIC RESULT

DataMaster DMT: 102606
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 10/17/2007
Time: 11:22

VERMONT
DEPARTMENT OF HEALTH

VERSIONS
DMT 1.26
PIC 2.03
Questions 1.0
Reports 1.3

TEMPERATURES
Sample Chamber = 48.7 C
Breath Tube = 48.0 C
Simulator Hose = 0.0 C
Digital Sim = 33.9 C

SETTINGS
Lamp Voltage = 2.34 V
Cooler Voltage = 1.98 V
Bias Voltage = 121.1 V
Chopper Freq = 545.6 Hz

PUMP INFO
Flow Rate = 4.507 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.3026	0.3012
MIN(V)	0.2986	0.2982

FILTER INFO
Filter 1 0.298 Zero = true
Filter 2 0.655 Zero = true
Filter 3 1.492 Zero = true

INTERNAL STANDARD
Xq = 0.1401 0.32%

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

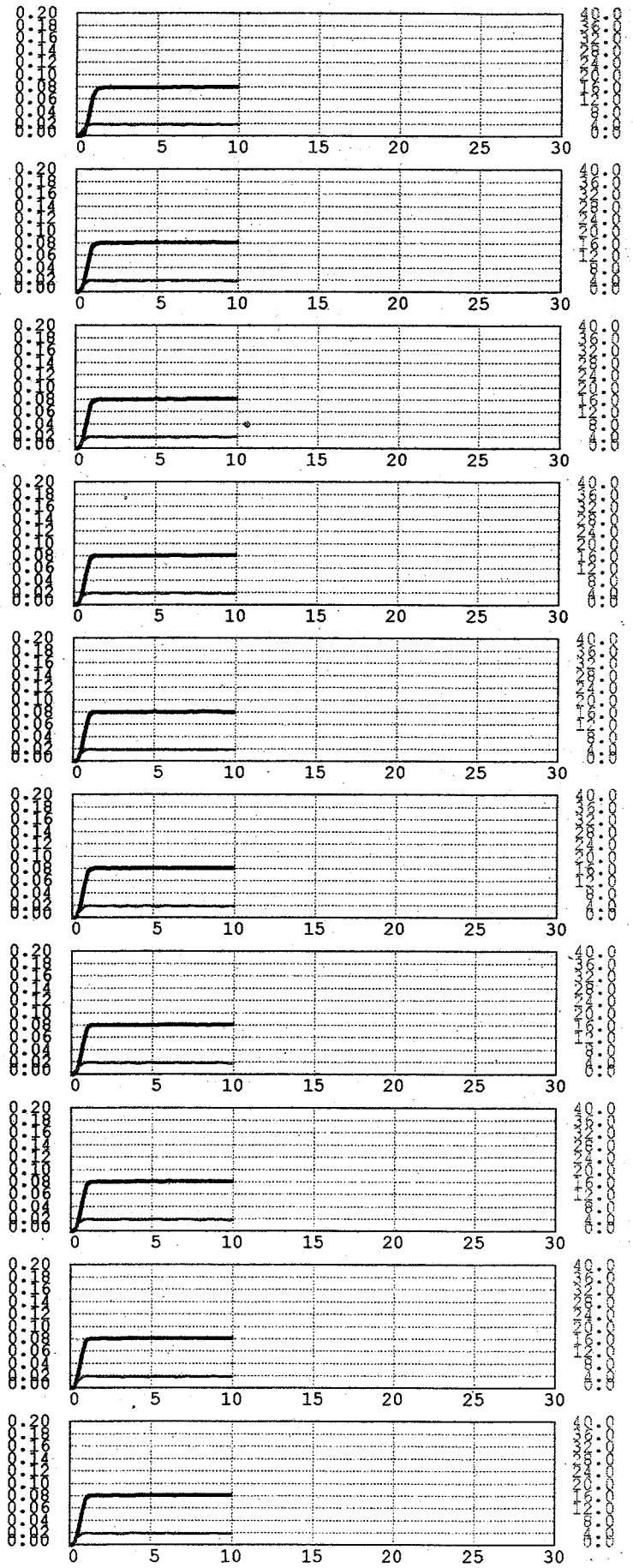
Date: 10/17/2007
Time: 10:16:28

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST		0.000	10:17
INTERNAL STANDARD		PASSED	10:17
Xq = 0.1390 (0.51%)			
SIMULATOR VAPOR	(33.9°C)	0.078	10:17
X[1] = 0.0781	(-0.0004)	(0.0009)	
SIMULATOR VAPOR	(33.9°C)	0.078	10:18
X[1] = 0.0788	(0.0012)	(0.0001)	
SIMULATOR VAPOR	(33.9°C)	0.078	10:19
X[1] = 0.0785	(-0.0006)	(-0.0002)	
SIMULATOR VAPOR	(34.0°C)	0.078	10:20
X[1] = 0.0785	(-0.0003)	(-0.0001)	
SIMULATOR VAPOR	(33.9°C)	0.078	10:21
X[1] = 0.0781	(-0.0006)	(0.0006)	
SIMULATOR VAPOR	(34.0°C)	0.078	10:22
X[1] = 0.0788	(0.0007)	(0.0004)	
SIMULATOR VAPOR	(33.9°C)	0.078	10:23
X[1] = 0.0785	(-0.0007)	(0.0001)	
SIMULATOR VAPOR	(34.0°C)	0.078	10:24
X[1] = 0.0783	(0.0004)	(0.0005)	
SIMULATOR VAPOR	(33.9°C)	0.078	10:25
X[1] = 0.0786	(0.0004)	(0.0009)	
SIMULATOR VAPOR	(34.0°C)	0.078	10:26
X[1] = 0.0784	(-0.0002)	(-0.0003)	
BLANK TEST		0.000	10:27

Average = 0.0780
Std Dev = 0.0000



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

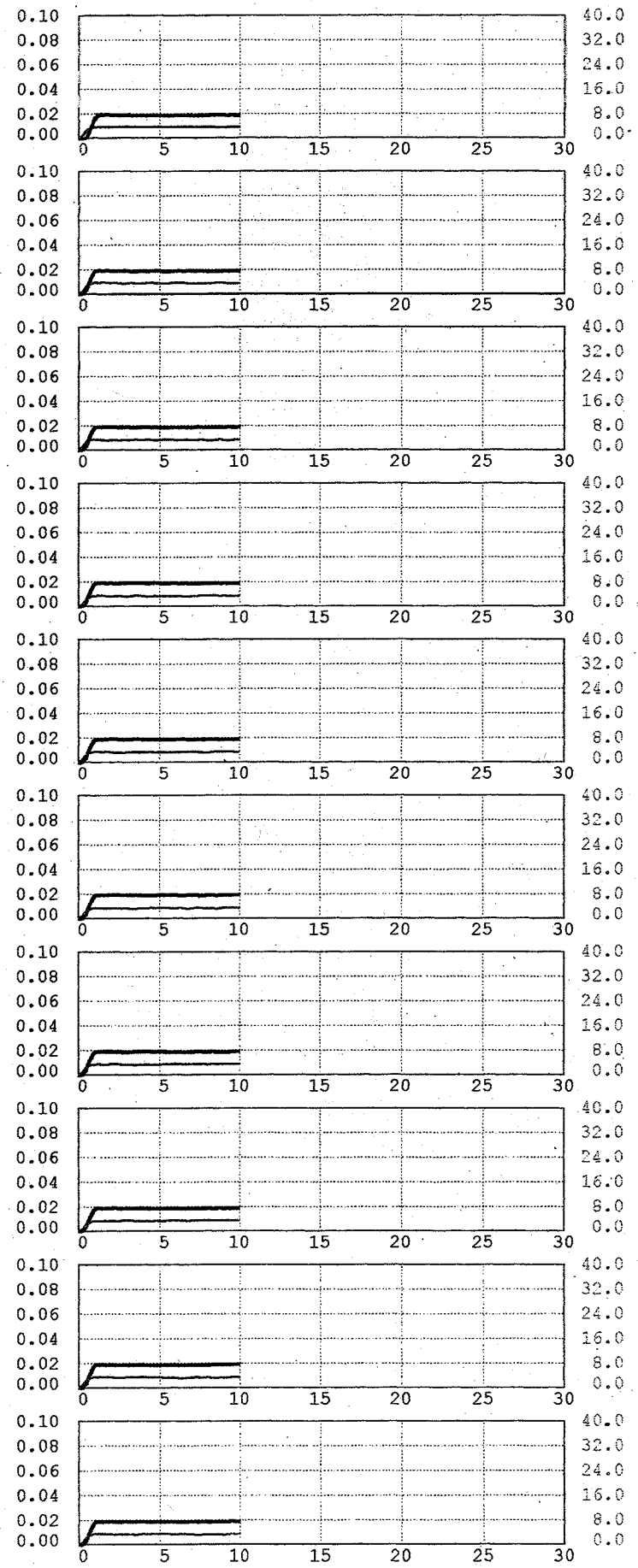
Date: 10/17/2007
Time: 10:41:35

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-15-020 10/25/07 [illegible]
SOLUTION CONCENTRATION: ~~0.022~~ .0205

BLANK TEST	0.000	10:42
INTERNAL STANDARD	PASSED	10:42
Xq = 0.1392 (0.32%)		
SIMULATOR VAPOR (33.8°C)	0.018	10:42
X[1] = 0.0185 (-0.0013) (0.0001)		
SIMULATOR VAPOR (33.7°C)	0.018	10:43
X[1] = 0.0187 (-0.0018) (-0.0002)		
SIMULATOR VAPOR (33.8°C)	0.018	10:44
X[1] = 0.0189 (-0.0014) (0.0003)		
SIMULATOR VAPOR (33.8°C)	0.018	10:45
X[1] = 0.0187 (-0.0022) (0.0000)		
SIMULATOR VAPOR (33.8°C)	0.018	10:46
X[1] = 0.0185 (-0.0014) (-0.0005)		
SIMULATOR VAPOR (33.7°C)	0.018	10:47
X[1] = 0.0189 (-0.0027) (0.0001)		
SIMULATOR VAPOR (33.7°C)	0.019	10:48
X[1] = 0.0190 (-0.0014) (0.0003)		
SIMULATOR VAPOR (33.8°C)	0.018	10:49
X[1] = 0.0185 (-0.0026) (-0.0001)		
SIMULATOR VAPOR (33.8°C)	0.018	10:50
X[1] = 0.0188 (-0.0019) (-0.0001)		
SIMULATOR VAPOR (33.8°C)	0.018	10:51
X[1] = 0.0183 (-0.0031) (0.0003)		
BLANK TEST	0.000	10:52

Average = 0.0181
Std Dev = 0.0003



10/17/2007 11:32

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

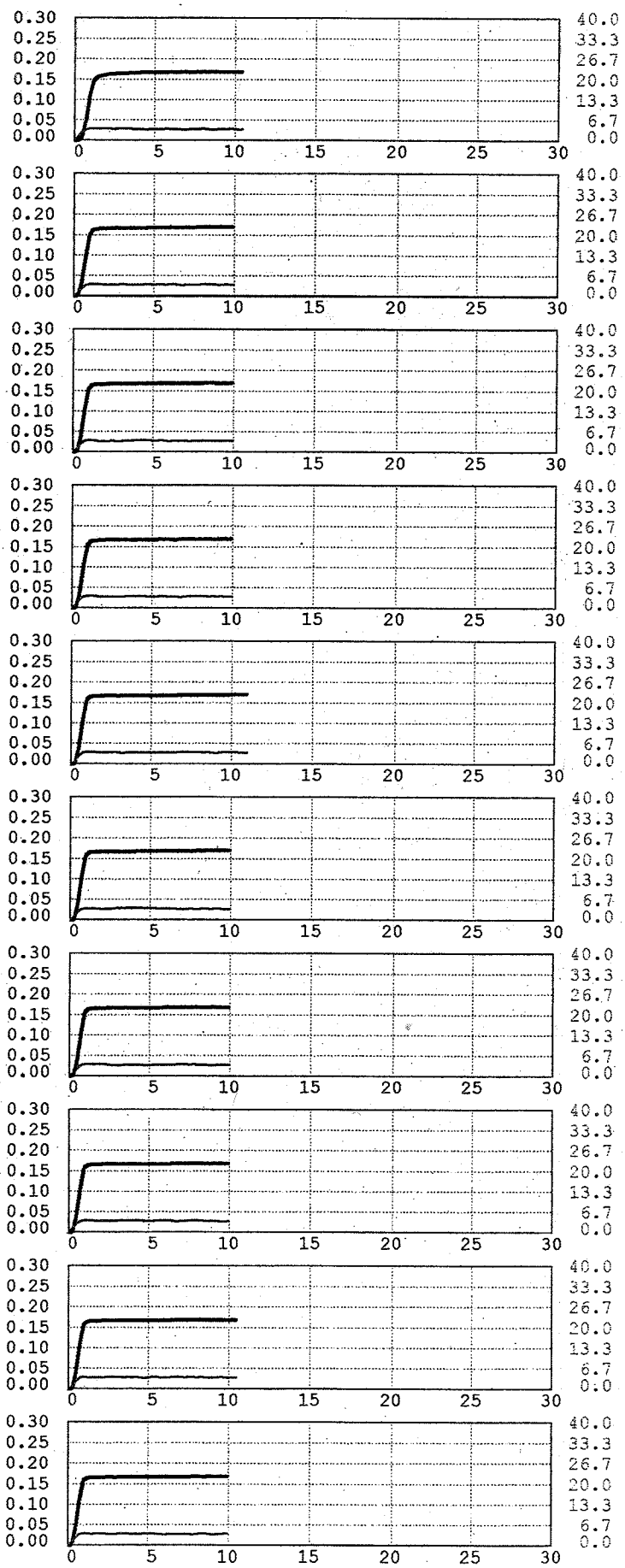
Date: 10/17/2007
Time: 10:53:26

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-18-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST	0.000	10:54
INTERNAL STANDARD	PASSED	10:54
Xq = 0.1392 (0.32%)		
SIMULATOR VAPOR (34.0°C)	0.165	10:54
X[1] = 0.1653 (0.0029) (0.0017)		
SIMULATOR VAPOR (34.1°C)	0.165	10:56
X[1] = 0.1659 (0.0018) (0.0028)		
SIMULATOR VAPOR (34.1°C)	0.165	10:57
X[1] = 0.1656 (0.0037) (0.0023)		
SIMULATOR VAPOR (34.1°C)	0.165	10:58
X[1] = 0.1657 (0.0022) (0.0026)		
SIMULATOR VAPOR (34.0°C)	0.165	10:59
X[1] = 0.1658 (0.0047) (0.0031)		
SIMULATOR VAPOR (34.1°C)	0.166	11:00
X[1] = 0.1661 (0.0034) (0.0029)		
SIMULATOR VAPOR (34.1°C)	0.165	11:01
X[1] = 0.1655 (0.0036) (0.0023)		
SIMULATOR VAPOR (34.1°C)	0.165	11:02
X[1] = 0.1654 (0.0034) (0.0030)		
SIMULATOR VAPOR (34.0°C)	0.165	11:03
X[1] = 0.1656 (0.0034) (0.0027)		
SIMULATOR VAPOR (34.1°C)	0.165	11:04
X[1] = 0.1650 (0.0019) (0.0018)		
BLANK TEST	0.000	11:04

Average = 0.1651
Std Dev = 0.0003



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

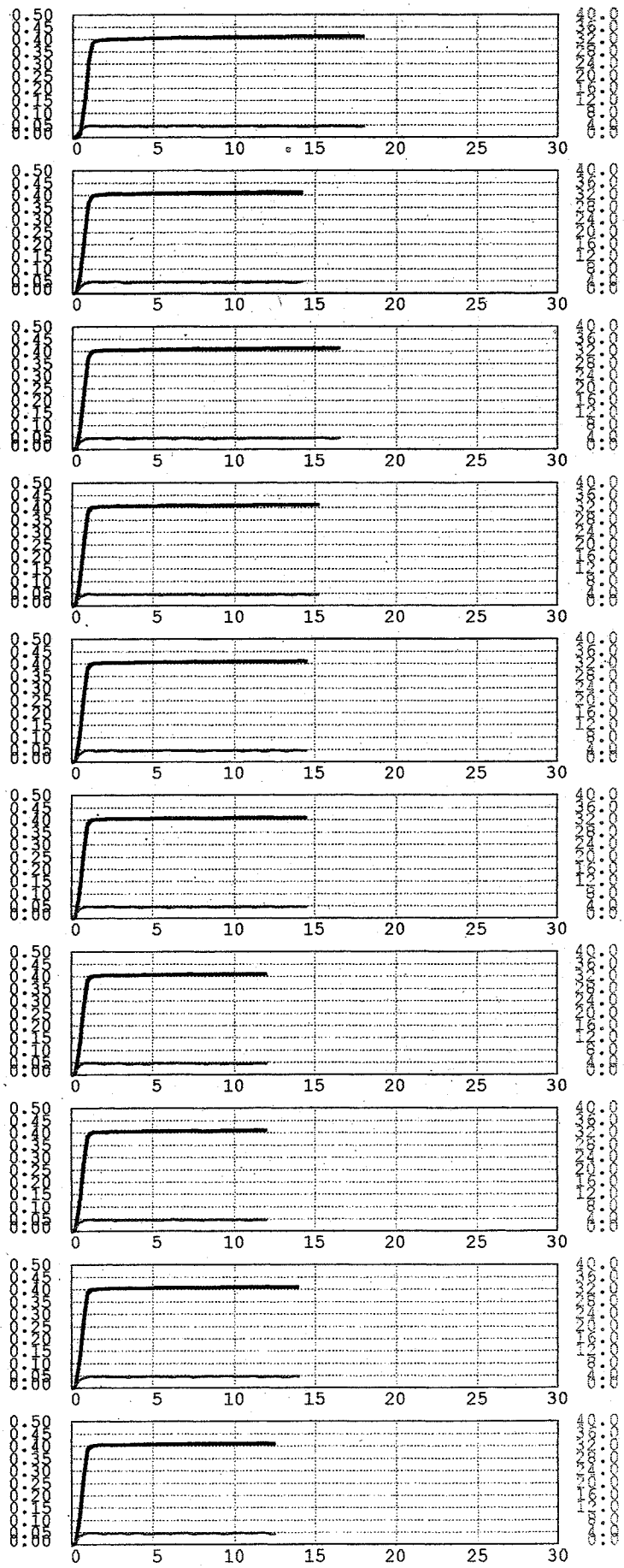
Date: 10/17/2007
Time: 11:08:24

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST		0.000	11:09
INTERNAL STANDARD		PASSED	11:09
Xq = 0.1394	(0.19%)		
SIMULATOR VAPOR	(33.9°C)	0.405	11:09
X[1] = 0.4055	(0.0127)	(0.0094)	
SIMULATOR VAPOR	(33.9°C)	0.403	11:11
X[1] = 0.4037	(0.0121)	(0.0082)	
SIMULATOR VAPOR	(33.9°C)	0.404	11:12
X[1] = 0.4043	(0.0122)	(0.0067)	
SIMULATOR VAPOR	(33.9°C)	0.403	11:13
X[1] = 0.4037	(0.0121)	(0.0076)	
SIMULATOR VAPOR	(33.9°C)	0.403	11:14
X[1] = 0.4039	(0.0129)	(0.0079)	
SIMULATOR VAPOR	(33.9°C)	0.403	11:15
X[1] = 0.4031	(0.0127)	(0.0075)	
SIMULATOR VAPOR	(34.0°C)	0.402	11:16
X[1] = 0.4027	(0.0119)	(0.0084)	
SIMULATOR VAPOR	(33.9°C)	0.402	11:17
X[1] = 0.4024	(0.0116)	(0.0076)	
SIMULATOR VAPOR	(33.9°C)	0.402	11:18
X[1] = 0.4024	(0.0105)	(0.0072)	
SIMULATOR VAPOR	(33.9°C)	0.403	11:19
X[1] = 0.4030	(0.0125)	(0.0075)	
BLANK TEST		0.000	11:20

Average = 0.4030
Std Dev = 0.0009



DIAGNOSTIC RESULT

DataMaster DMT: 102606
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 10/19/2007
Time: 13:38

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.26
PIC 2.03
Questions 1.0
Reports 1.3

TEMPERATURES
Sample Chamber = 48.9 C
Breath Tube    = 47.2 C
Simulator Hose =  0.0 C
Digital Sim    = 34.0 C

SETTINGS
Lamp Voltage   = 2.34 V
Cooler Voltage = 1.98 V
Bias Voltage   = 121.1 V
Chopper Freq   = 542.7 Hz

PUMP INFO
Flow Rate = 4.523 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V)   0.2693    0.2703
MIN(V)   0.2669    0.2681

FILTER INFO
Filter 1  0.268  Zero = true
Filter 2  0.629  Zero = true
Filter 3  1.440  Zero = true

INTERNAL STANDARD
Xq = 0.1391  0.38%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

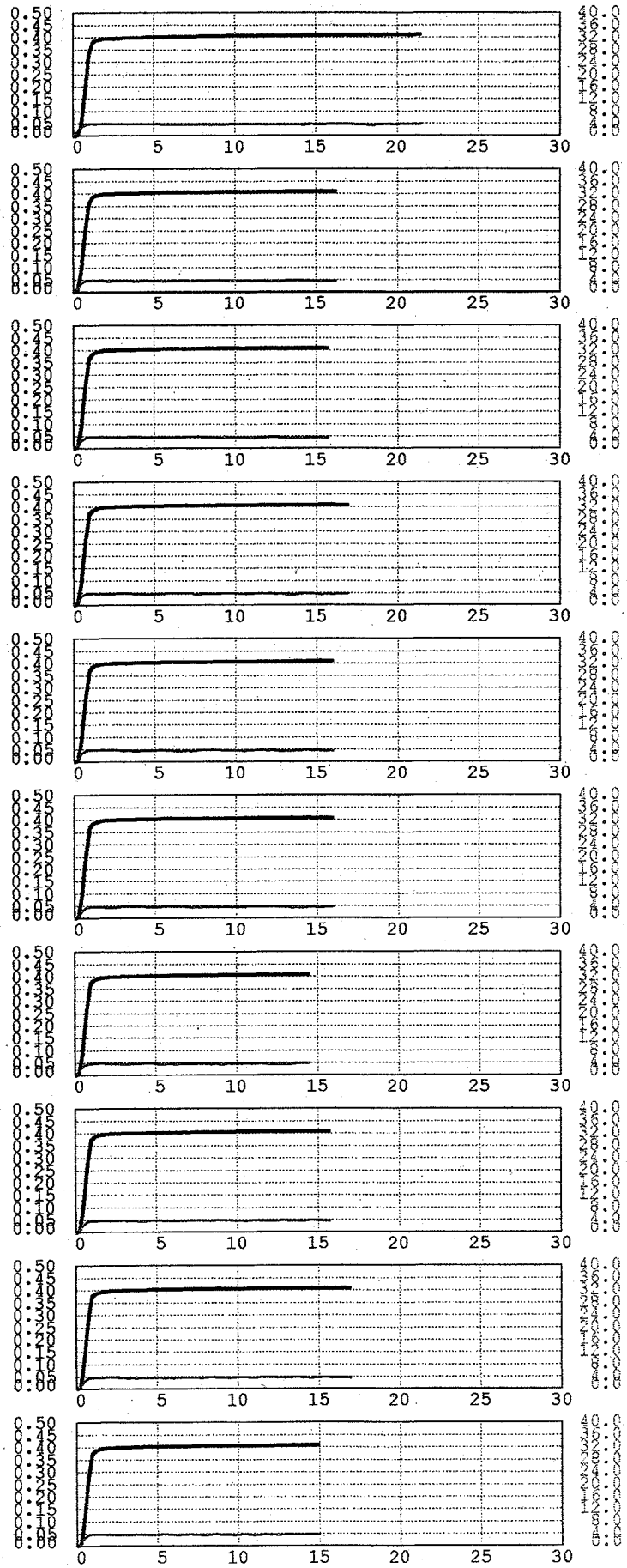
Date: 10/19/2007
Time: 14:04:48

SUPERVISOR NAME: D M R

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST		0.000	14:05
INTERNAL STANDARD		PASSED	14:05
Xq = 0.1392	(0.32%)		
SIMULATOR VAPOR (33.9°C)		0.401	14:06
X[1] = 0.4010	(0.0113)	(0.0002)	
SIMULATOR VAPOR (34.0°C)		0.399	14:07
X[1] = 0.3998	(0.0119)	(0.0004)	
SIMULATOR VAPOR (34.0°C)		0.398	14:08
X[1] = 0.3989	(0.0093)	(-0.0006)	
SIMULATOR VAPOR (33.9°C)		0.398	14:09
X[1] = 0.3984	(0.0117)	(-0.0006)	
SIMULATOR VAPOR (34.0°C)		0.399	14:10
X[1] = 0.3999	(0.0114)	(0.0012)	
SIMULATOR VAPOR (33.9°C)		0.399	14:12
X[1] = 0.3990	(0.0108)	(-0.0008)	
SIMULATOR VAPOR (33.9°C)		0.398	14:13
X[1] = 0.3981	(0.0103)	(-0.0016)	
SIMULATOR VAPOR (33.9°C)		0.397	14:14
X[1] = 0.3979	(0.0095)	(-0.0012)	
SIMULATOR VAPOR (34.0°C)		0.398	14:15
X[1] = 0.3989	(0.0112)	(0.0000)	
SIMULATOR VAPOR (34.0°C)		0.398	14:16
X[1] = 0.3983	(0.0105)	(-0.0002)	
BLANK TEST		0.000	14:17

Average = 0.3985
Std Dev = 0.0011



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

Date: 10/19/2007
Time: 14:23:20

SUPERVISOR NAME: D M R

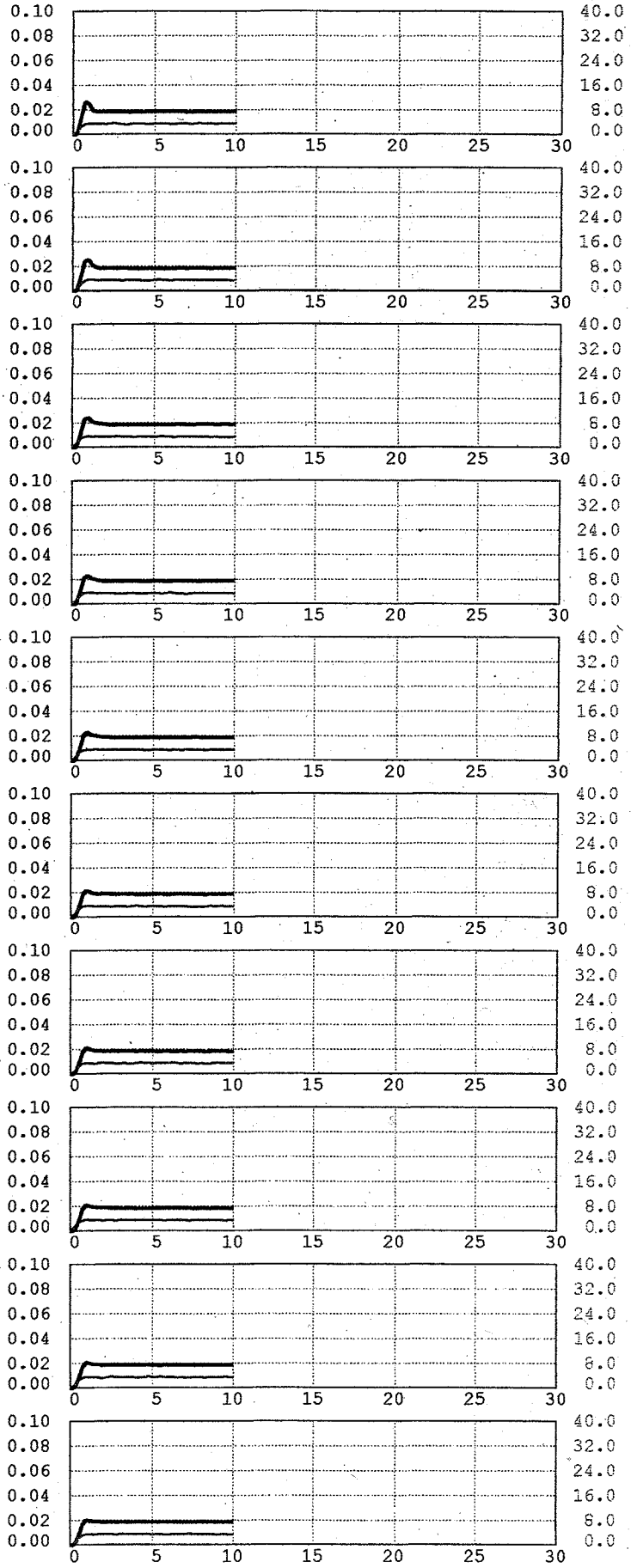
SOLUTION LOT #: 07-15-020 10/25/07 DMR
SOLUTION CONCENTRATION: ~~0.022~~ .0205

BLANK TEST	0.000	14:24
INTERNAL STANDARD	PASSED	14:24
Xq = 0.1392 (0.32%)		
SIMULATOR VAPOR (33.8°C)	0.018	14:24
X[1] = 0.0188 (0.0000) (0.0002)		
SIMULATOR VAPOR (33.8°C)	0.018	14:25
X[1] = 0.0186 (-0.0004) (0.0002)		
SIMULATOR VAPOR (33.8°C)	0.018	14:26
X[1] = 0.0188 (-0.0007) (-0.0007)		
SIMULATOR VAPOR (33.8°C)	0.018	14:27
X[1] = 0.0186 (0.0003) (-0.0003)		
SIMULATOR VAPOR (33.8°C)	0.018	14:28
X[1] = 0.0187 (-0.0010) (0.0003)		
SIMULATOR VAPOR (33.8°C)	0.018	14:29
X[1] = 0.0188 (-0.0001) (-0.0006)		
SIMULATOR VAPOR (33.8°C)	0.018	14:30
X[1] = 0.0185 (-0.0011) (-0.0007)		
SIMULATOR VAPOR (33.8°C)	0.018	14:31
X[1] = 0.0184 (-0.0006) (-0.0003)		
SIMULATOR VAPOR (33.8°C)	0.018	14:32
X[1] = 0.0185 (-0.0004) (-0.0002)		
SIMULATOR VAPOR (33.8°C)	0.018	14:33
X[1] = 0.0186 (-0.0004) (-0.0006)		
BLANK TEST	0.000	14:34

Average = 0.0180
Std Dev = 0.0000

82% recovery
outside acceptable
range
DMR
10/19/07

TV of Solution = .0205
87% recovery 10/25/07
ALB



10/19/2007 14:38

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

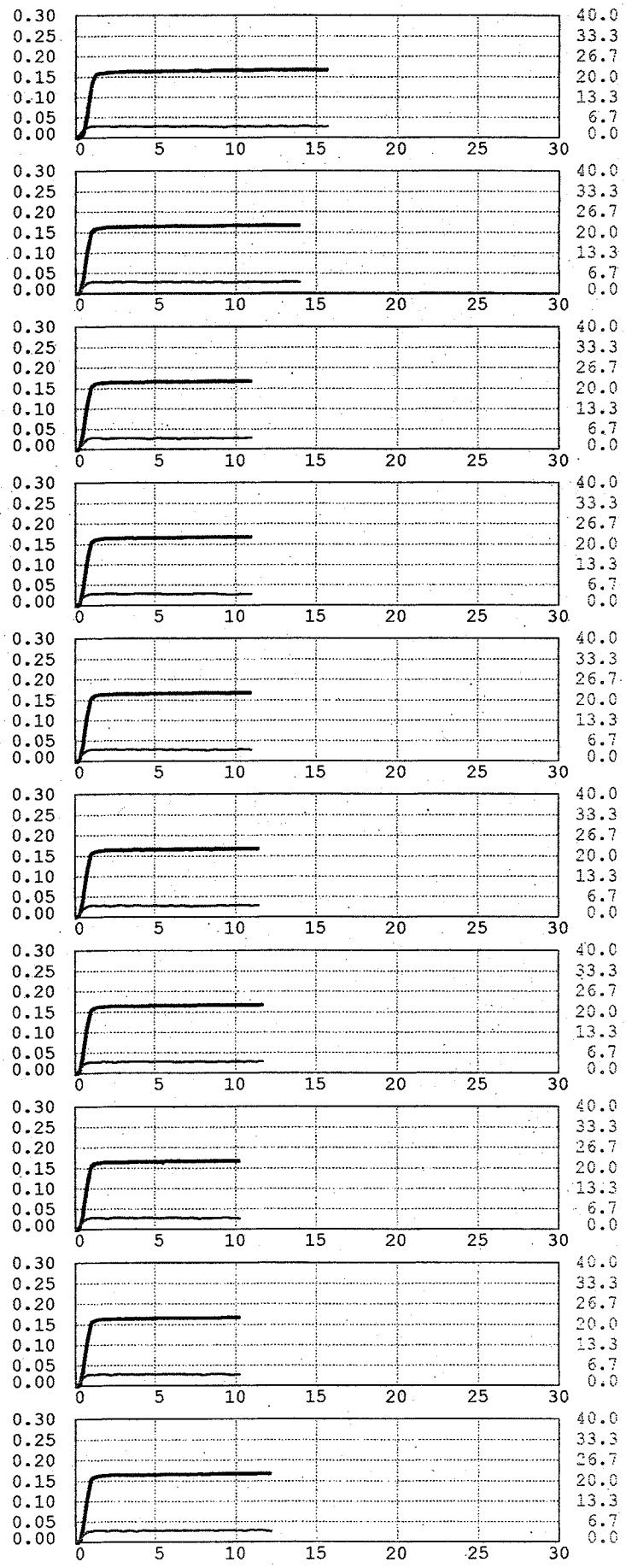
Date: 10/19/2007
Time: 14:43:42

SUPERVISOR NAME: D M R

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST		0.000	14:44
INTERNAL STANDARD		PASSED	14:44
Xq = 0.1391 (0.38%)			
SIMULATOR VAPOR (34.1°C)		0.163	14:45
X[1] = 0.1638	(0.0036)	(0.0008)	
SIMULATOR VAPOR (34.1°C)		0.163	14:46
X[1] = 0.1634	(0.0033)	(0.0003)	
SIMULATOR VAPOR (34.1°C)		0.163	14:47
X[1] = 0.1633	(0.0041)	(0.0008)	
SIMULATOR VAPOR (34.1°C)		0.163	14:48
X[1] = 0.1636	(0.0043)	(0.0001)	
SIMULATOR VAPOR (34.2°C)		0.163	14:49
X[1] = 0.1632	(0.0030)	(0.0004)	
SIMULATOR VAPOR (34.1°C)		0.163	14:50
X[1] = 0.1639	(0.0038)	(0.0008)	
SIMULATOR VAPOR (34.1°C)		0.163	14:51
X[1] = 0.1636	(0.0036)	(0.0004)	
SIMULATOR VAPOR (34.1°C)		0.164	14:52
X[1] = 0.1645	(0.0048)	(0.0006)	
SIMULATOR VAPOR (34.1°C)		0.163	14:53
X[1] = 0.1631	(0.0027)	(0.0006)	
SIMULATOR VAPOR (34.1°C)		0.163	14:54
X[1] = 0.1633	(0.0030)	(0.0004)	
BLANK TEST		0.000	14:54

Average = 0.1631
Std Dev = 0.0003



10/19/2007 14:58

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

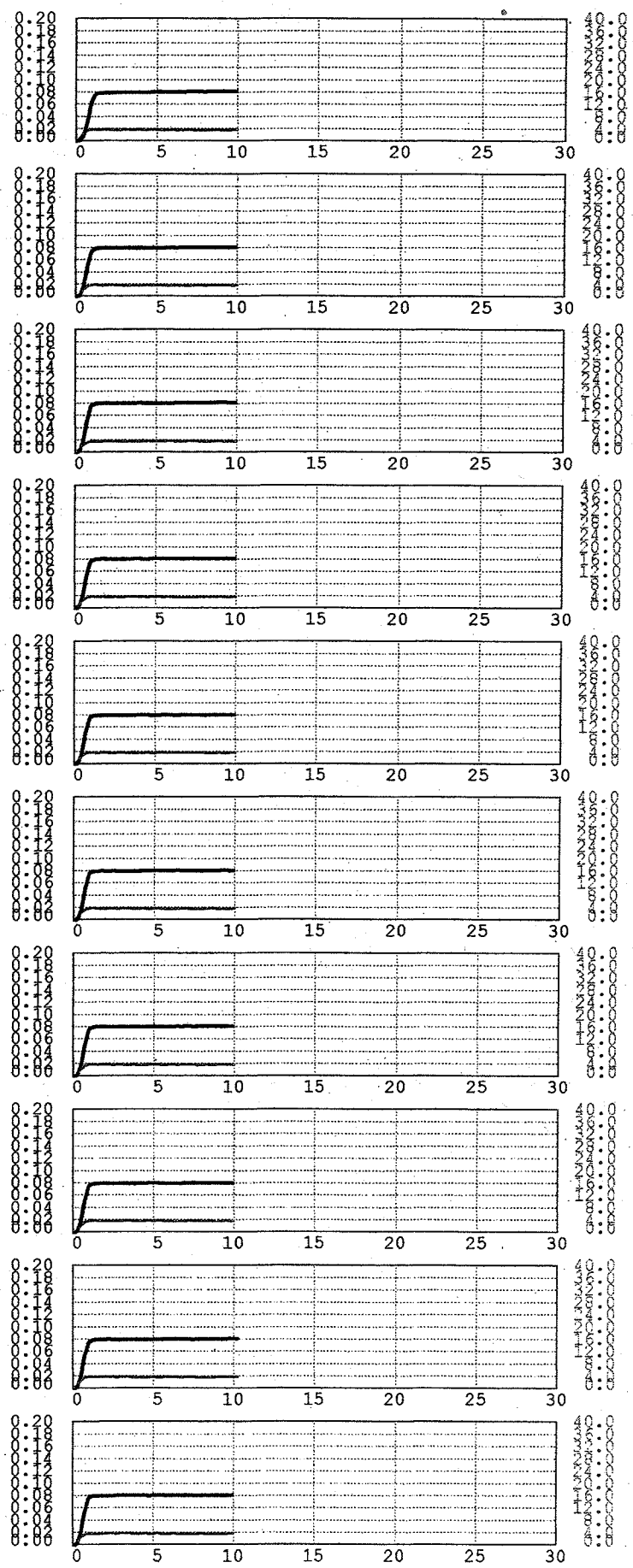
Date: 10/19/2007
Time: 15:02:37

SUPERVISOR NAME: D M R

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST		0.000	15:03
INTERNAL STANDARD		PASSED	15:03
Xq = 0.1397 (0.00%)			
SIMULATOR VAPOR (34.0°C)		0.078	15:03
X[1] = 0.0785 (0.0019)	(0.0008)		
SIMULATOR VAPOR (34.0°C)		0.077	15:04
X[1] = 0.0774 (0.0014)	(0.0004)		
SIMULATOR VAPOR (33.9°C)		0.077	15:05
X[1] = 0.0779 (0.0023)	(0.0004)		
SIMULATOR VAPOR (33.9°C)		0.078	15:06
X[1] = 0.0780 (0.0011)	(0.0002)		
SIMULATOR VAPOR (34.0°C)		0.077	15:07
X[1] = 0.0773 (0.0007)	(0.0004)		
SIMULATOR VAPOR (34.0°C)		0.077	15:08
X[1] = 0.0776 (0.0017)	(0.0009)		
SIMULATOR VAPOR (34.0°C)		0.078	15:09
X[1] = 0.0783 (0.0018)	(-0.0003)		
SIMULATOR VAPOR (33.9°C)		0.077	15:10
X[1] = 0.0773 (0.0006)	(0.0003)		
SIMULATOR VAPOR (34.0°C)		0.077	15:11
X[1] = 0.0774 (0.0009)	(-0.0002)		
SIMULATOR VAPOR (33.9°C)		0.077	15:12
X[1] = 0.0777 (0.0019)	(0.0001)		
BLANK TEST		0.000	15:13

Average = 0.0773
Std Dev = 0.0005



10/19/2007 15:14

DIAGNOSTIC RESULT

DataMaster DMT: 102606
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 10/23/2007
Time: 09:16

VERMONT
DEPARTMENT OF HEALTH

VERSIONS
DMT 1.26
PIC 2.03
Questions 1.0
Reports 1.3

TEMPERATURES
Sample Chamber = 48.7 C
Breath Tube = 46.3 C
Simulator Hose = 0.0 C
Digital Sim = 34.1 C

SETTINGS
Lamp Voltage = 2.34 V
Cooler Voltage = 1.98 V
Bias Voltage = 121.1 V
Chopper Freq = 542.1 Hz

PUMP INFO
Flow Rate = 4.572 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.2705	0.2717
MIN(V)	0.2677	0.2693

FILTER INFO
Filter 1 0.269 Zero = true
Filter 2 0.628 Zero = true
Filter 3 1.434 Zero = true

INTERNAL STANDARD
Xq = 0.1387 0.70%

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

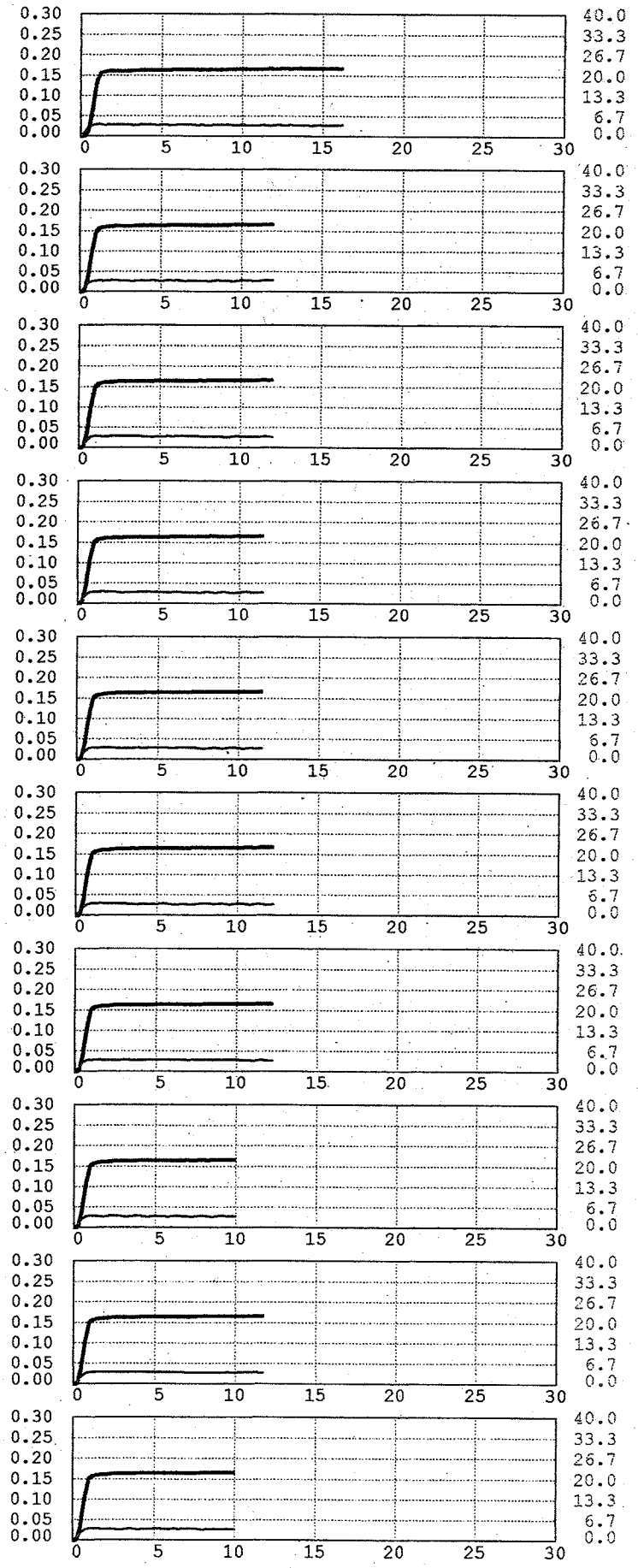
Date: 10/23/2007
Time: 09:55:46

SUPERVISOR NAME: R J D

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST		0.000	09:56
INTERNAL STANDARD		PASSED	09:56
Xq = 0.1391	(0.458)		
SIMULATOR VAPOR (34.1°C)		0.162	09:57
X[1] = 0.1625	(0.0032)	(-0.0001)	
SIMULATOR VAPOR (34.0°C)		0.162	09:58
X[1] = 0.1620	(0.0038)	(-0.0021)	
SIMULATOR VAPOR (34.0°C)		0.162	09:59
X[1] = 0.1628	(0.0042)	(-0.0009)	
SIMULATOR VAPOR (34.1°C)		0.161	10:00
X[1] = 0.1617	(0.0031)	(-0.0025)	
SIMULATOR VAPOR (34.1°C)		0.162	10:01
X[1] = 0.1629	(0.0024)	(-0.0013)	
SIMULATOR VAPOR (34.0°C)		0.162	10:02
X[1] = 0.1629	(0.0048)	(-0.0011)	
SIMULATOR VAPOR (34.1°C)		0.162	10:03
X[1] = 0.1625	(0.0024)	(-0.0012)	
SIMULATOR VAPOR (34.1°C)		0.161	10:04
X[1] = 0.1617	(0.0033)	(-0.0019)	
SIMULATOR VAPOR (34.1°C)		0.162	10:05
X[1] = 0.1627	(0.0033)	(-0.0015)	
SIMULATOR VAPOR (34.1°C)		0.161	10:06
X[1] = 0.1619	(0.0031)	(-0.0017)	
BLANK TEST		0.000	10:06

Average = 0.1617
Std Dev = 0.0005



10/23/2007 10:07

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

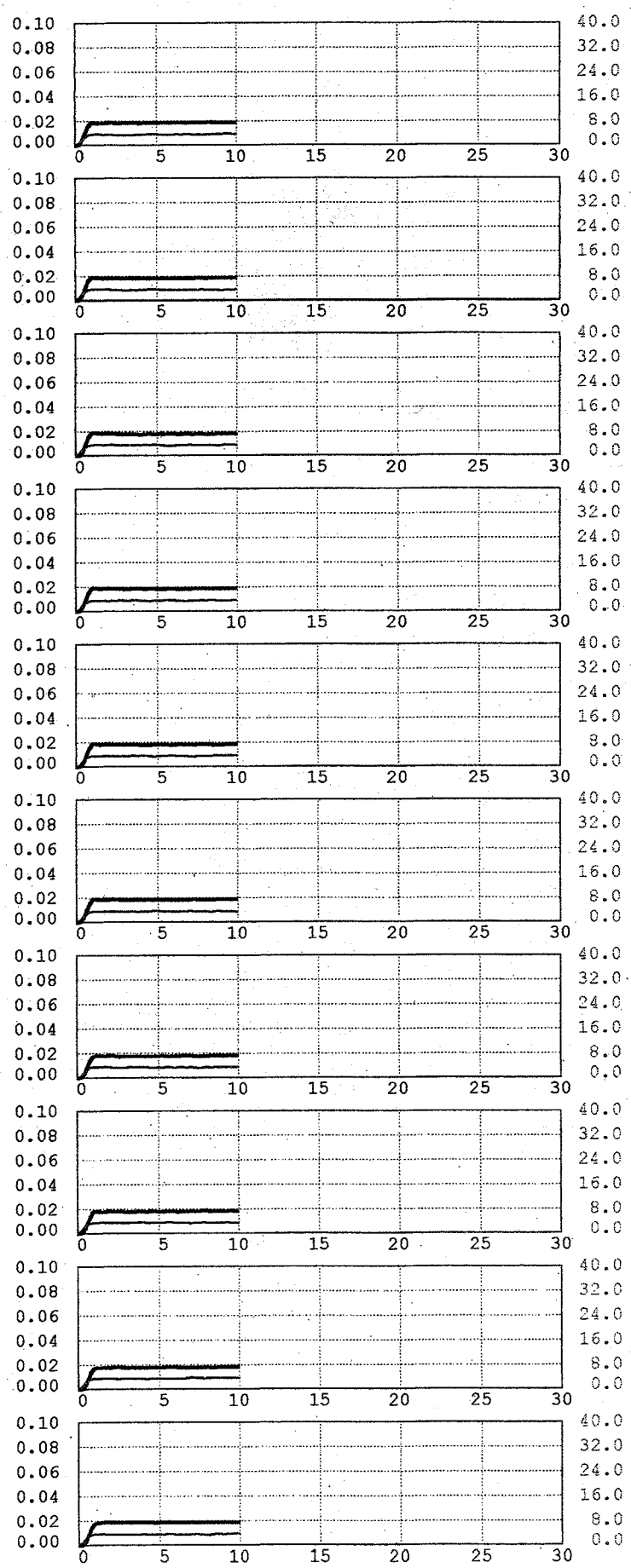
Date: 10/23/2007
Time: 10:19:41

SUPERVISOR NAME: R J D

SOLUTION LOT #: 07-15-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST		0.000	10:20
INTERNAL STANDARD		PASSED	10:20
Xq = 0.1397 (0.00%)			
SIMULATOR VAPOR (33.8°C)		0.018	10:21
X[1] = 0.0186	(0.0009)	(0.0004)	
SIMULATOR VAPOR (33.8°C)		0.018	10:22
X[1] = 0.0186	(0.0001)	(0.0007)	
SIMULATOR VAPOR (33.9°C)		0.018	10:22
X[1] = 0.0180	(-0.0011)	(-0.0007)	
SIMULATOR VAPOR (33.8°C)		0.018	10:23
X[1] = 0.0185	(-0.0001)	(0.0001)	
SIMULATOR VAPOR (33.8°C)		0.017	10:24
X[1] = 0.0179	(-0.0015)	(-0.0003)	
SIMULATOR VAPOR (33.9°C)		0.018	10:25
X[1] = 0.0182	(-0.0007)	(-0.0011)	
SIMULATOR VAPOR (33.8°C)		0.018	10:26
X[1] = 0.0183	(-0.0006)	(-0.0005)	
SIMULATOR VAPOR (33.9°C)		0.018	10:27
X[1] = 0.0180	(-0.0001)	(-0.0004)	
SIMULATOR VAPOR (33.8°C)		0.017	10:28
X[1] = 0.0177	(-0.0010)	(-0.0005)	
SIMULATOR VAPOR (33.9°C)		0.018	10:29
X[1] = 0.0185	(0.0005)	(0.0007)	
BLANK TEST		0.000	10:30

Average = 0.0178
Std Dev = 0.0004



10/23/2007 10:33

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

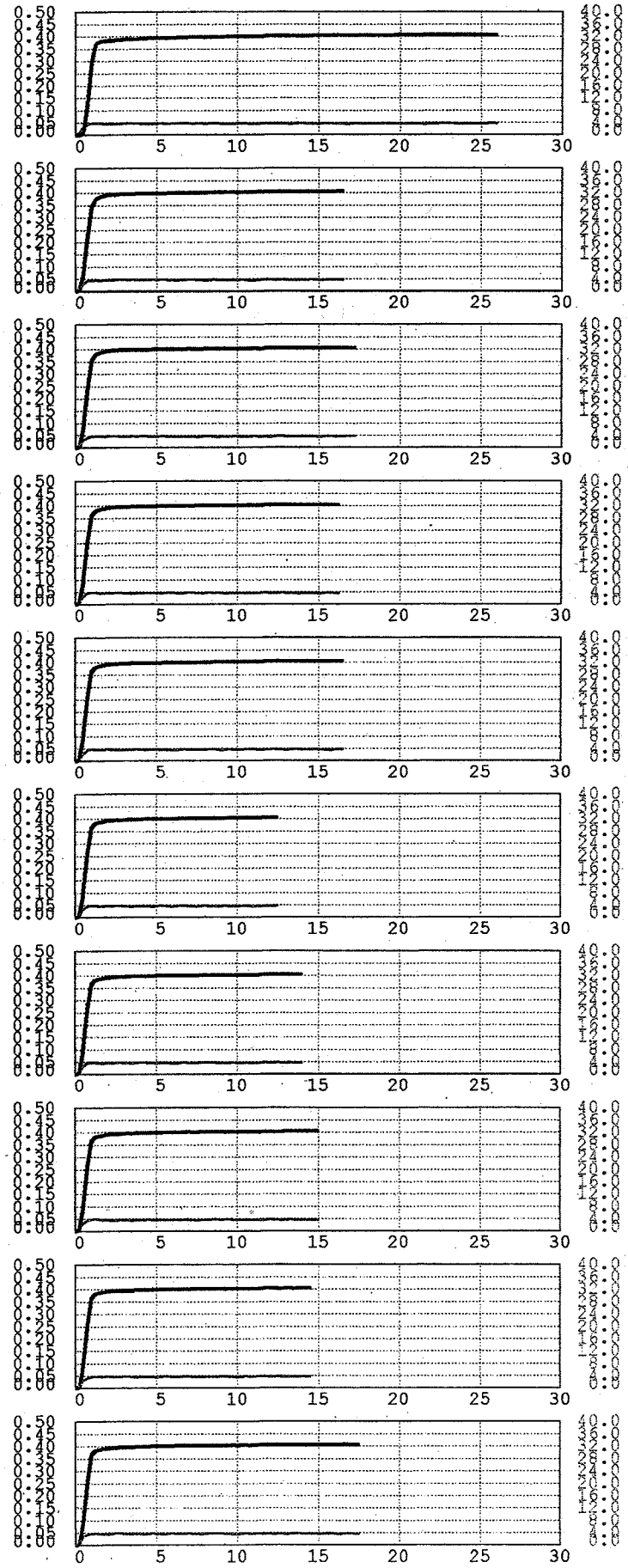
Date: 10/23/2007
Time: 10:56:57

SUPERVISOR NAME: R J D

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST		0.000	10:57
INTERNAL STANDARD		PASSED	10:57
Xq = 0.1388 (0.64%)			
SIMULATOR VAPOR	(34.0°C)	0.397	10:58
X[1] = 0.3978	(0.0125)	(0.0013)	
SIMULATOR VAPOR	(34.0°C)	0.397	10:59
X[1] = 0.3971	(0.0108)	(0.0017)	
SIMULATOR VAPOR	(33.9°C)	0.396	11:01
X[1] = 0.3960	(0.0118)	(0.0006)	
SIMULATOR VAPOR	(33.9°C)	0.396	11:02
X[1] = 0.3960	(0.0113)	(0.0001)	
SIMULATOR VAPOR	(34.0°C)	0.396	11:03
X[1] = 0.3965	(0.0112)	(0.0001)	
SIMULATOR VAPOR	(33.9°C)	0.395	11:04
X[1] = 0.3958	(0.0112)	(0.0001)	
SIMULATOR VAPOR	(33.9°C)	0.396	11:05
X[1] = 0.3961	(0.0119)	(0.0000)	
SIMULATOR VAPOR	(34.0°C)	0.395	11:06
X[1] = 0.3958	(0.0118)	(0.0005)	
SIMULATOR VAPOR	(34.0°C)	0.396	11:07
X[1] = 0.3966	(0.0119)	(0.0008)	
SIMULATOR VAPOR	(34.0°C)	0.396	11:08
X[1] = 0.3963	(0.0108)	(0.0004)	
BLANK TEST		0.000	11:09

Average = 0.3960
Std Dev = 0.0007



10/23/2007 11:09

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

Date: 10/23/2007
Time: 11:29:27

SUPERVISOR NAME: R J D

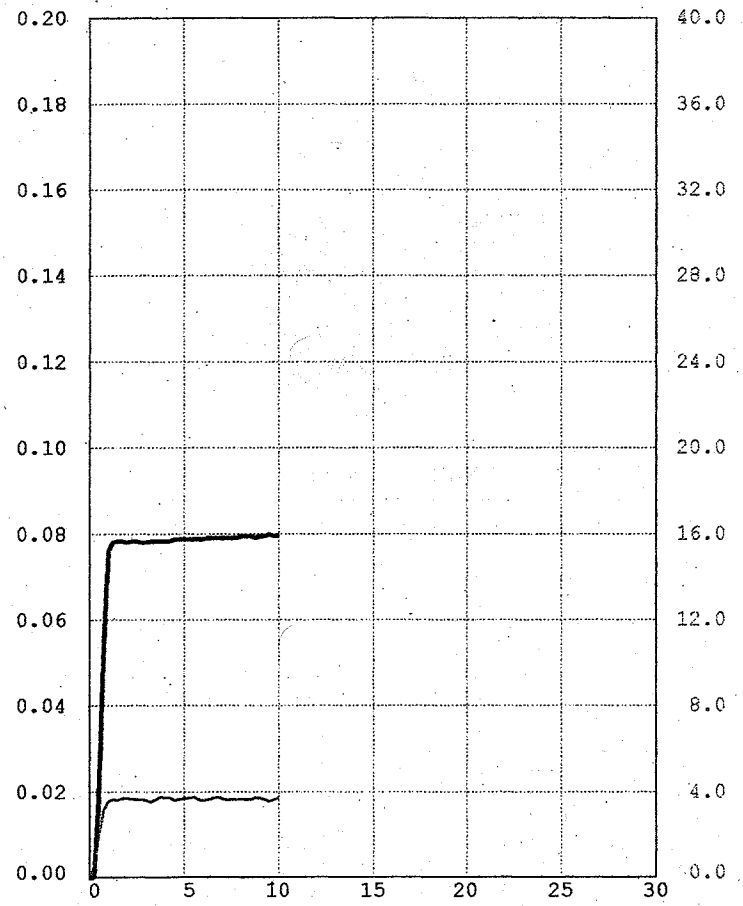
SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

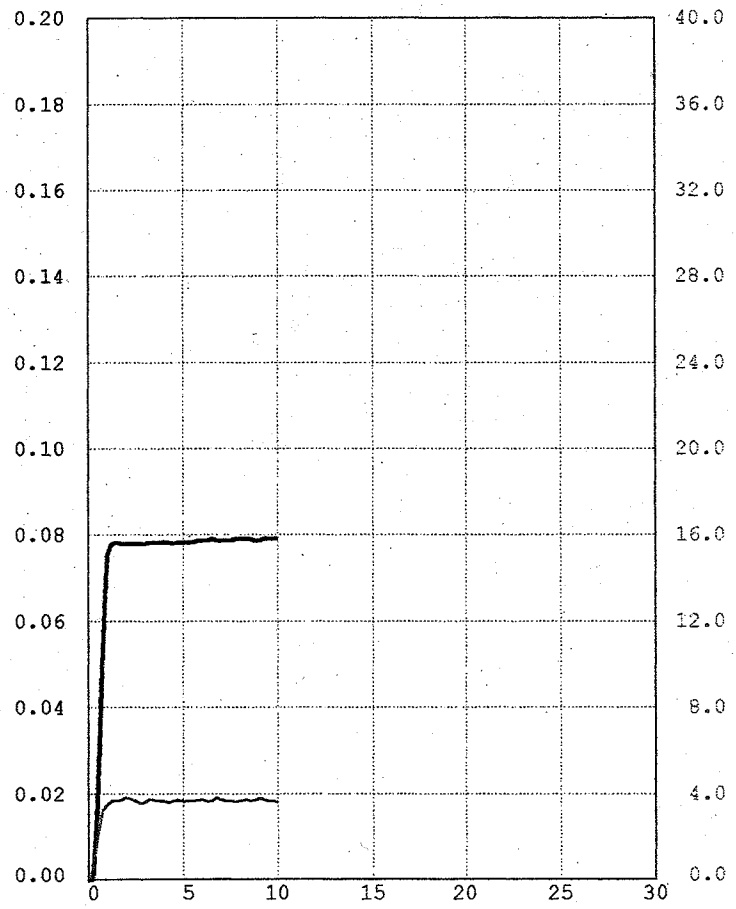
BLANK TEST	0.000	11:30
INTERNAL STANDARD	PASSED	11:30
Xq = 0.1395 (0.13%)		
SIMULATOR VAPOR (33.9°C)	0.077	11:30
X[1] = 0.0770 (0.0017) (0.0014)		
SIMULATOR VAPOR (33.9°C)	0.076	11:31
X[1] = 0.0764 (0.0012) (0.0002)		

STANDARD OUT OF RANGE

Solution partially depleted due to hook-up during purge.
RJD
10/23/07

Installed new solution and retested 10/25/07 SLB





10/23/2007 12:02

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

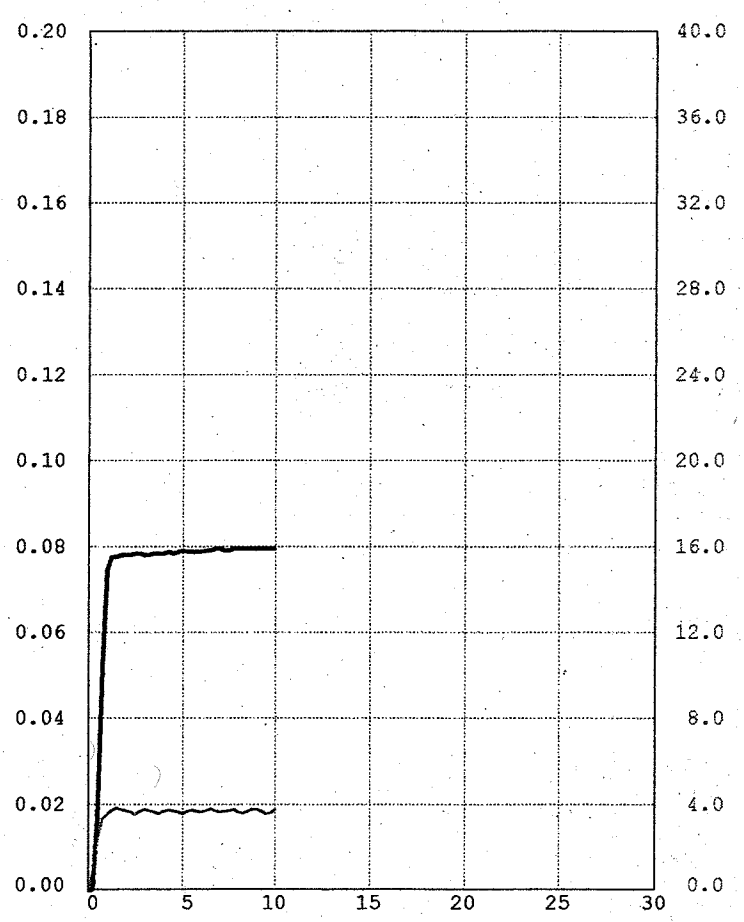
Date: 10/23/2007
Time: 11:34:14

SUPERVISOR NAME: R J D

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST	0.000	11:35
INTERNAL STANDARD	PASSED	11:35
Xq = 0.1394 (0.19%)		
SIMULATOR VAPOR (34.0°C)	0.076	11:35
X[1] = 0.0766 (0.0014) (0.0006)		

STANDARD OUT OF RANGE



Solution partially depleted due to hook-up during purge TMD 10/23/07

10/23/2007 12:00

2-24

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

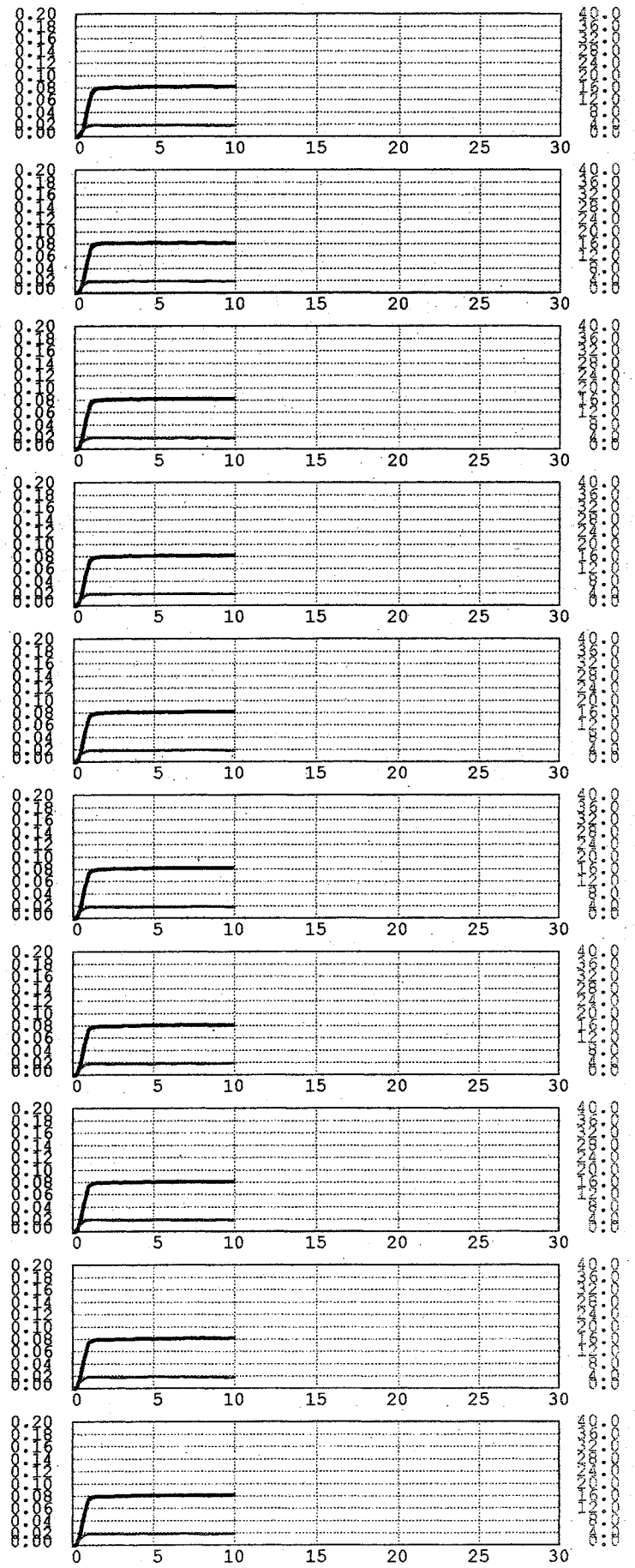
Date: 10/23/2007
Time: 13:15:00

SUPERVISOR NAME: R J D

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST		0.000	13:15
INTERNAL STANDARD		PASSED	13:16
Xq = 0.1389 (0.58%)			
SIMULATOR VAPOR	(34.0°C)	0.079	13:16
X[1] = 0.0798	(0.0006)	(-0.0002)	
SIMULATOR VAPOR	(34.0°C)	0.080	13:17
X[1] = 0.0802	(0.0018)	(-0.0003)	
SIMULATOR VAPOR	(34.0°C)	0.080	13:18
X[1] = 0.0800	(0.0006)	(-0.0011)	
SIMULATOR VAPOR	(33.9°C)	0.080	13:19
X[1] = 0.0802	(0.0013)	(-0.0006)	
SIMULATOR VAPOR	(34.0°C)	0.080	13:20
X[1] = 0.0800	(0.0012)	(-0.0007)	
SIMULATOR VAPOR	(34.0°C)	0.080	13:21
X[1] = 0.0804	(0.0017)	(-0.0009)	
SIMULATOR VAPOR	(34.0°C)	0.079	13:22
X[1] = 0.0791	(0.0001)	(-0.0012)	
SIMULATOR VAPOR	(33.9°C)	0.079	13:23
X[1] = 0.0795	(0.0013)	(-0.0012)	
SIMULATOR VAPOR	(34.0°C)	0.079	13:24
X[1] = 0.0796	(0.0007)	(-0.0007)	
SIMULATOR VAPOR	(34.0°C)	0.079	13:25
X[1] = 0.0796	(0.0015)	(-0.0009)	
BLANK TEST		0.000	13:25

Average = 0.0795
Std Dev = 0.0005



10/23/2007 14:09

DIAGNOSTIC RESULT

DataMaster DMT: 102606
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 10/26/2007
Time: 10:19

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.26
PIC 2.03
Questions 1.0
Reports 1.3

TEMPERATURES
Sample Chamber = 48.8 C
Breath Tube    = 48.1 C
Simulator Hose =  0.0 C
Digital Sim    = 34.1 C

SETTINGS
Lamp Voltage   = 2.34 V
Cooler Voltage = 1.98 V
Bias Voltage   = 121.1 V
Chopper Freq   = 544.6 Hz

PUMP INFO
Flow Rate = 4.714 L/M

DETECTOR INFO
PUMP     ON       OFF
MAX(V)   0.2868   0.2876
MIN(V)   0.2847   0.2856

FILTER INFO
Filter 1  0.286  Zero = true
Filter 2  0.643  Zero = true
Filter 3  1.456  Zero = true

INTERNAL STANDARD
Xq = 0.1389  0.58%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

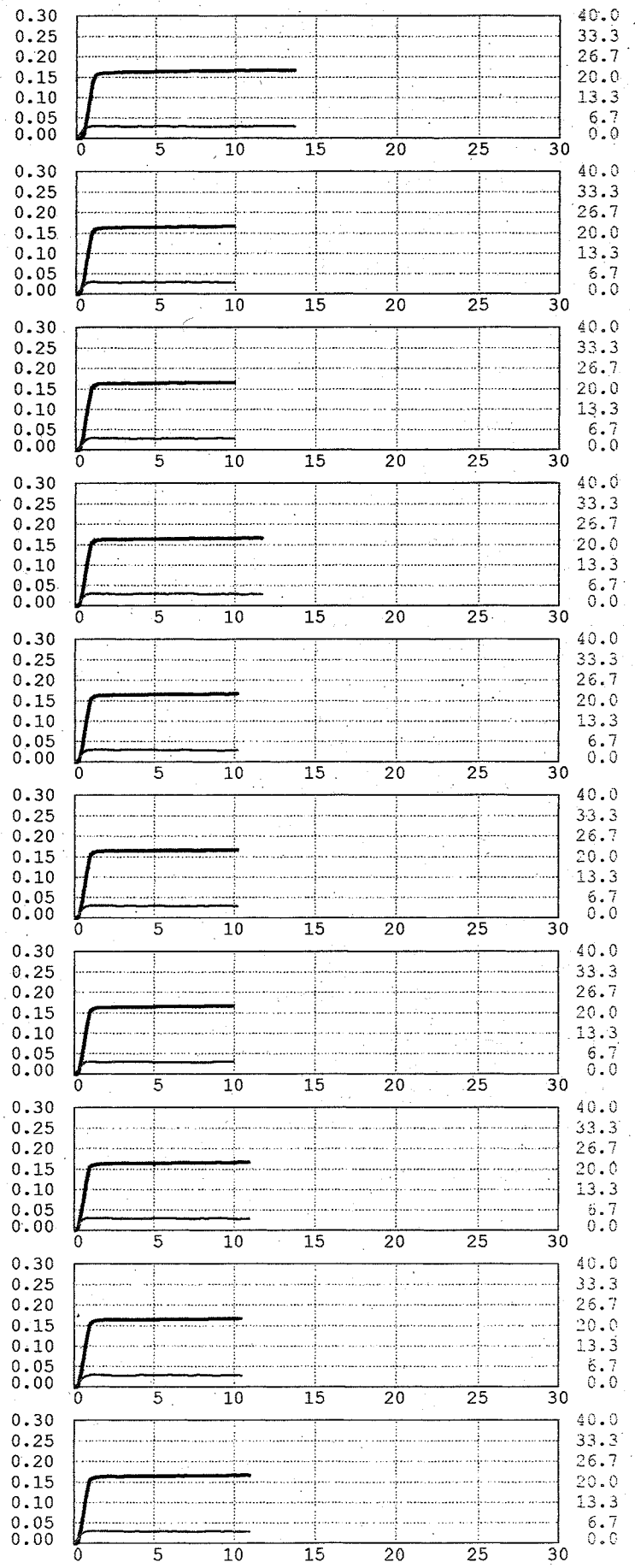
Date: 10/26/2007
Time: 10:21:14

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST	0.000	10:22
INTERNAL STANDARD	PASSED	10:22
Xq = 0.1386 (0.77%)		
SIMULATOR VAPOR (34.0°C)	0.163	10:22
X[1] = 0.1633 (0.0032)	(-0.0002)	
SIMULATOR VAPOR (34.0°C)	0.163	10:23
X[1] = 0.1631 (0.0023)	(-0.0007)	
SIMULATOR VAPOR (34.1°C)	0.162	10:24
X[1] = 0.1623 (0.0023)	(-0.0008)	
SIMULATOR VAPOR (34.1°C)	0.163	10:25
X[1] = 0.1631 (0.0023)	(-0.0012)	
SIMULATOR VAPOR (34.1°C)	0.163	10:26
X[1] = 0.1635 (0.0023)	(-0.0004)	
SIMULATOR VAPOR (34.1°C)	0.163	10:27
X[1] = 0.1633 (0.0035)	(-0.0002)	
SIMULATOR VAPOR (34.1°C)	0.163	10:28
X[1] = 0.1634 (0.0019)	(-0.0008)	
SIMULATOR VAPOR (34.1°C)	0.163	10:29
X[1] = 0.1630 (0.0027)	(-0.0018)	
SIMULATOR VAPOR (34.1°C)	0.163	10:30
X[1] = 0.1632 (0.0019)	(-0.0003)	
SIMULATOR VAPOR (34.1°C)	0.162	10:31
X[1] = 0.1626 (0.0018)	(0.0001)	
BLANK TEST	0.000	10:32

Average = 0.1628
Std Dev = 0.0004



10/26/2007 10:32

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

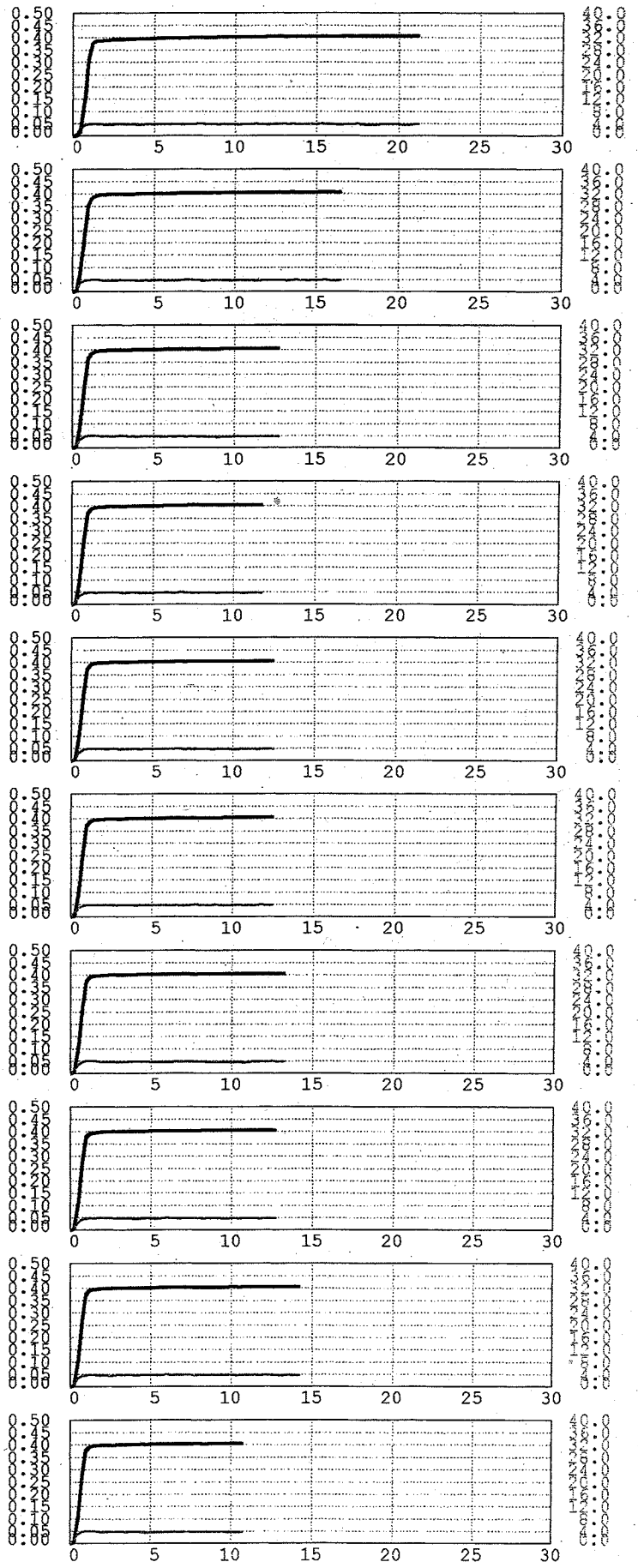
Date: 10/26/2007
Time: 10:35:51

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST		0.000	10:36
INTERNAL STANDARD		PASSED	10:36
Xq = 0.1389 (0.58%)			
SIMULATOR VAPOR (34.0°C)		0.398	10:37
X[1] = 0.3981 (0.0110)	(0.0023)		
SIMULATOR VAPOR (33.9°C)		0.397	10:38
X[1] = 0.3978 (0.0111)	(0.0022)		
SIMULATOR VAPOR (33.9°C)		0.395	10:39
X[1] = 0.3957 (0.0081)	(0.0019)		
SIMULATOR VAPOR (33.9°C)		0.396	10:40
X[1] = 0.3965 (0.0111)	(0.0012)		
SIMULATOR VAPOR (33.9°C)		0.397	10:41
X[1] = 0.3977 (0.0112)	(0.0009)		
SIMULATOR VAPOR (33.9°C)		0.396	10:42
X[1] = 0.3963 (0.0095)	(0.0015)		
SIMULATOR VAPOR (33.9°C)		0.396	10:43
X[1] = 0.3965 (0.0108)	(0.0021)		
SIMULATOR VAPOR (33.9°C)		0.398	10:44
X[1] = 0.3982 (0.0115)	(0.0021)		
SIMULATOR VAPOR (33.9°C)		0.397	10:45
X[1] = 0.3973 (0.0110)	(0.0024)		
SIMULATOR VAPOR (33.9°C)		0.396	10:46
X[1] = 0.3964 (0.0102)	(0.0028)		
BLANK TEST		0.000	10:47

Average = 0.3966
Std Dev = 0.0010



10/26/2007 10:48

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

Date: 10/26/2007
Time: 10:51:24

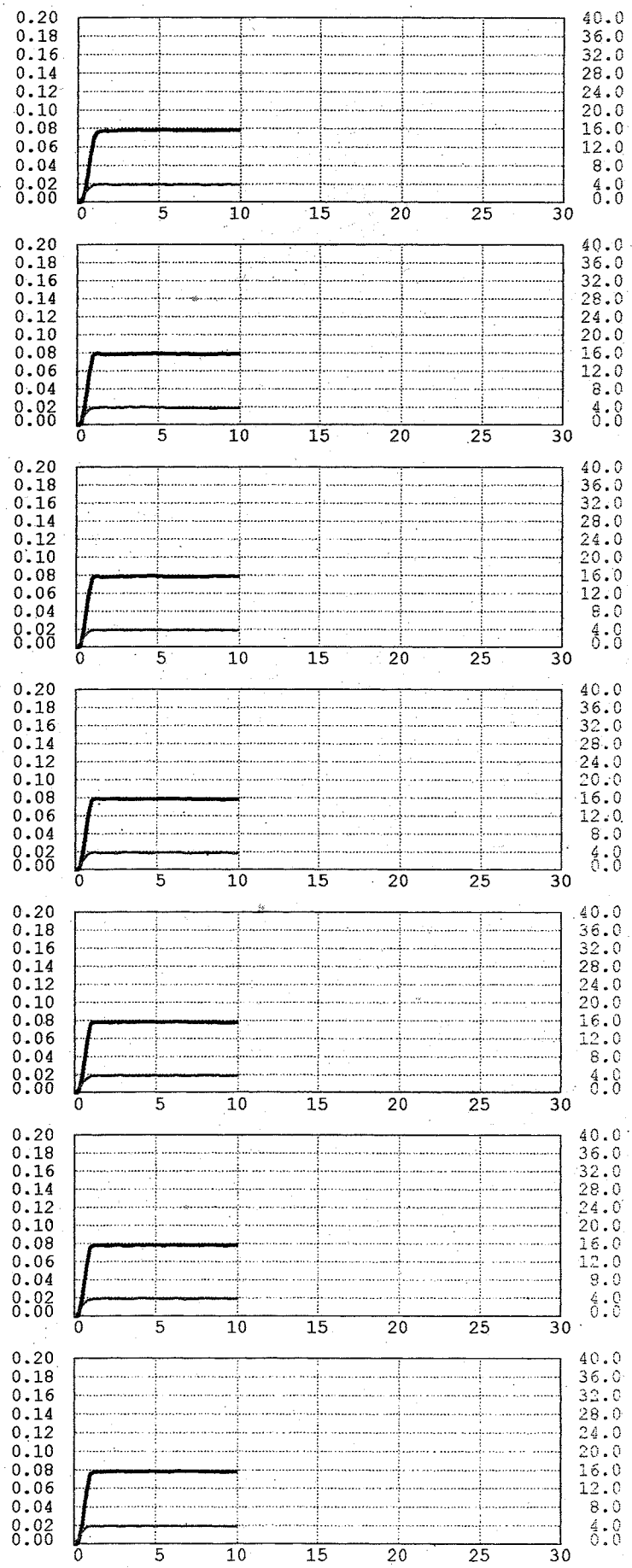
SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST		0.000	10:52
INTERNAL STANDARD		PASSED	10:52
Xq = 0.1381 (1.15%)			
SIMULATOR VAPOR (33.9°C)		0.077	10:52
X[1] = 0.0772	(0.0002)	(-0.0005)	
SIMULATOR VAPOR (34.0°C)		0.077	10:53
X[1] = 0.0772	(0.0011)	(0.0002)	
SIMULATOR VAPOR (33.9°C)		0.078	10:54
X[1] = 0.0781	(-0.0005)	(-0.0001)	
SIMULATOR VAPOR (34.0°C)		0.077	10:55
X[1] = 0.0777	(0.0009)	(0.0003)	
SIMULATOR VAPOR (34.0°C)		0.077	10:56
X[1] = 0.0772	(-0.0005)	(-0.0012)	
SIMULATOR VAPOR (34.0°C)		0.077	10:57
X[1] = 0.0774	(0.0002)	(0.0008)	
SIMULATOR VAPOR (33.9°C)		0.076	10:58
X[1] = 0.0765	(-0.0004)	(-0.0001)	

STANDARD OUT OF RANGE

Installed new Solution ALB



10/26/2007 10:59

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

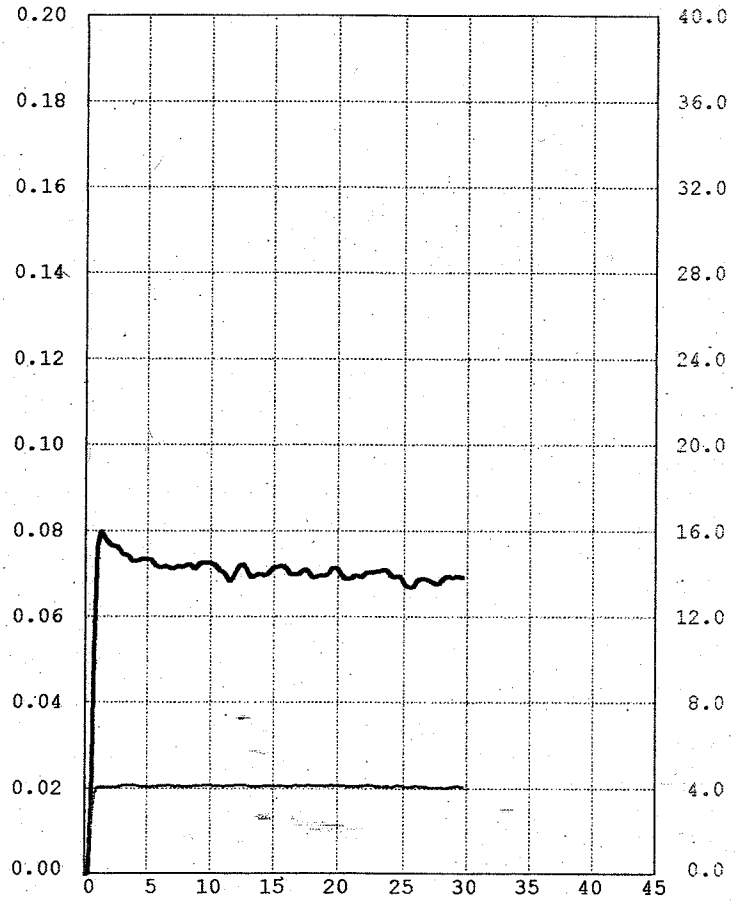
Date: 10/26/2007
Time: 11:41:44

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST	0.000	11:42
INTERNAL STANDARD	PASSED	11:42
Xq = 0.1393 (0.26%)		

SIMULATOR TIMEOUT



Jar was not tight on sim. retightened and reran ALB

10/26/2007 11:44

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

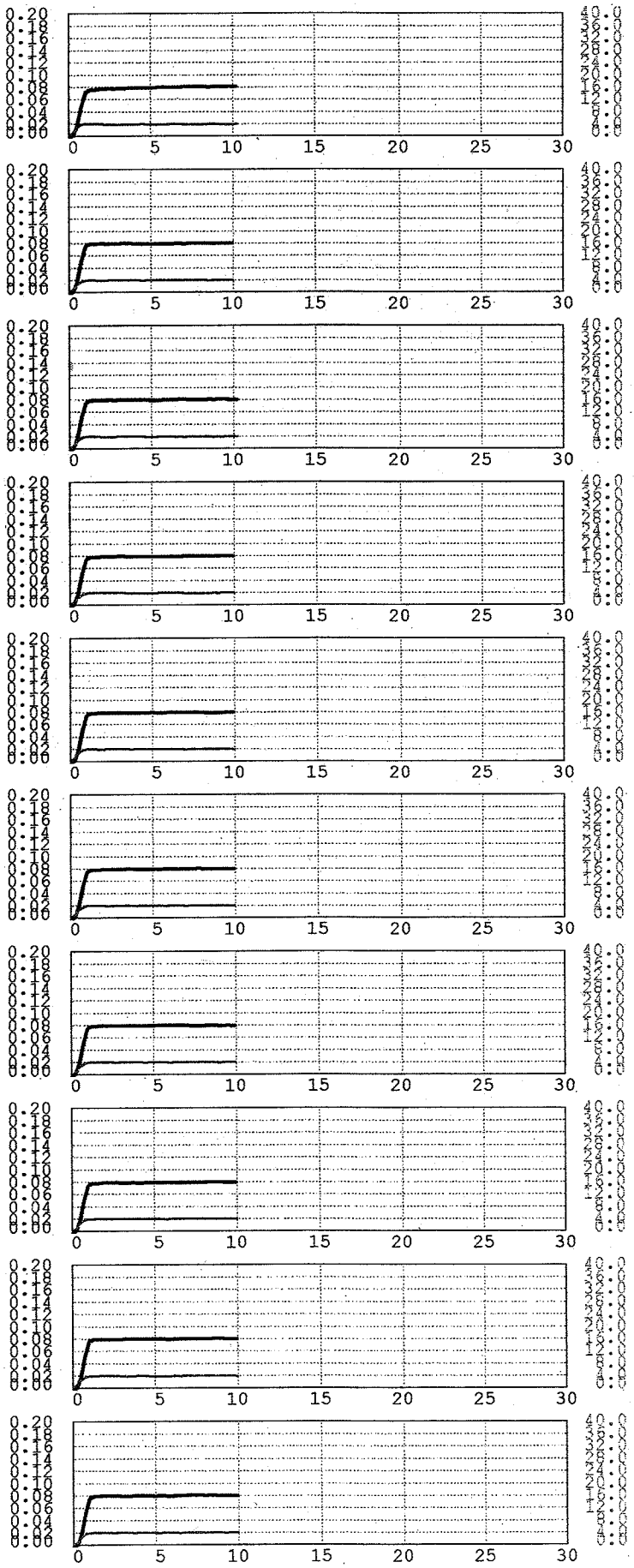
Date: 10/26/2007
Time: 11:44:29

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST		0.000	11:45
INTERNAL STANDARD		PASSED	11:45
Xq = 0.1386 (0.77%)			
SIMULATOR VAPOR	(34.0°C)	0.078	11:45
X[1] = 0.0785	(-0.0009)	(0.0004)	
SIMULATOR VAPOR	(33.9°C)	0.080	11:46
X[1] = 0.0806	(0.0004)	(0.0007)	
SIMULATOR VAPOR	(34.0°C)	0.080	11:47
X[1] = 0.0805	(-0.0005)	(0.0000)	
SIMULATOR VAPOR	(34.0°C)	0.080	11:48
X[1] = 0.0802	(0.0001)	(0.0001)	
SIMULATOR VAPOR	(34.0°C)	0.079	11:49
X[1] = 0.0798	(-0.0011)	(0.0002)	
SIMULATOR VAPOR	(34.0°C)	0.080	11:50
X[1] = 0.0805	(-0.0004)	(0.0002)	
SIMULATOR VAPOR	(34.0°C)	0.079	11:51
X[1] = 0.0799	(-0.0010)	(-0.0011)	
SIMULATOR VAPOR	(34.0°C)	0.079	11:52
X[1] = 0.0795	(-0.0003)	(-0.0001)	
SIMULATOR VAPOR	(34.0°C)	0.080	11:53
X[1] = 0.0802	(0.0001)	(-0.0002)	
SIMULATOR VAPOR	(34.0°C)	0.080	11:54
X[1] = 0.0801	(-0.0002)	(0.0012)	
BLANK TEST		0.000	11:55

Average = 0.0795
Std Dev = 0.0007



10/26/2007 11:55

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

Date: 10/26/2007
Time: 13:30:16

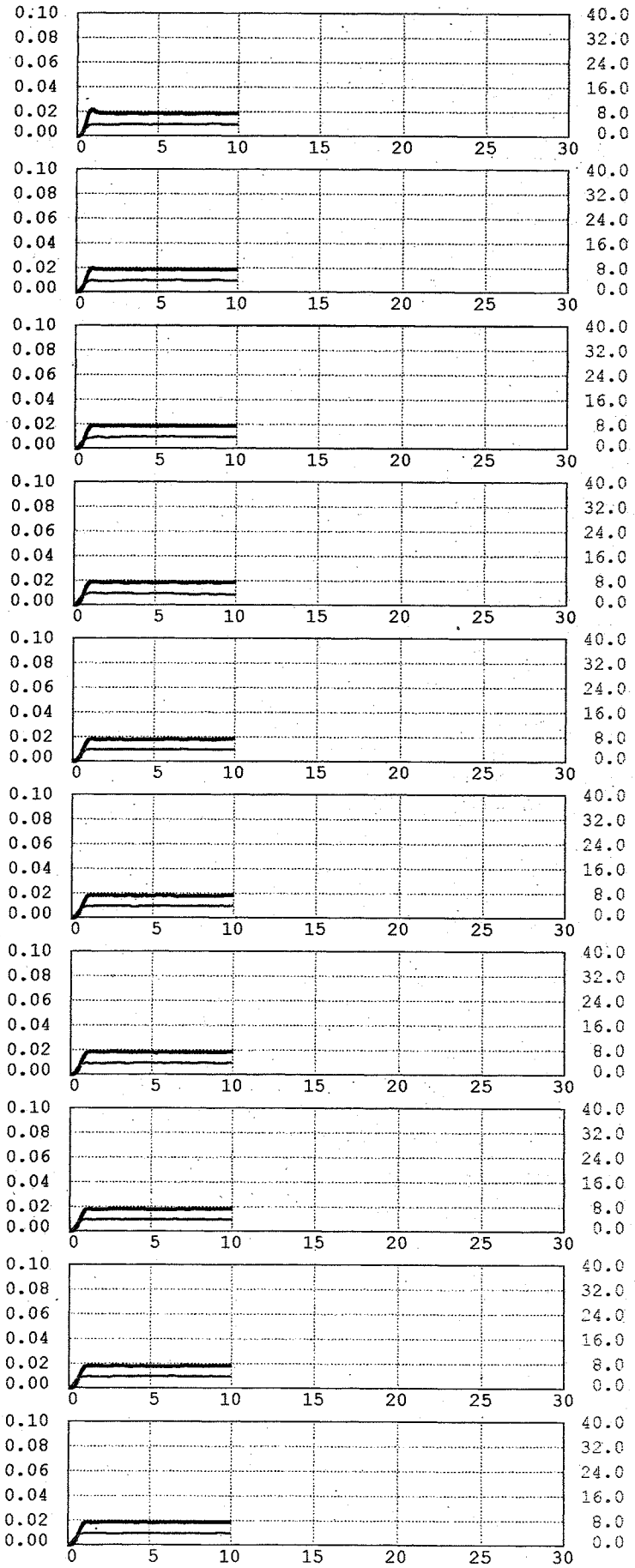
SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-15-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST		0.000	13:31
INTERNAL STANDARD		PASSED	13:31
Xq = 0.1384 (0.90%)			
SIMULATOR VAPOR (33.7°C)		0.018	13:31
X[1] = 0.0183	(-0.0017)	(0.0005)	
SIMULATOR VAPOR (33.8°C)		0.018	13:32
X[1] = 0.0185	(-0.0003)	(-0.0004)	
SIMULATOR VAPOR (33.7°C)		0.018	13:33
X[1] = 0.0185	(-0.0017)	(-0.0001)	
SIMULATOR VAPOR (33.8°C)		0.018	13:34
X[1] = 0.0186	(-0.0013)	(-0.0001)	
SIMULATOR VAPOR (33.8°C)		0.017	13:35
X[1] = 0.0177	(-0.0029)	(-0.0009)	
SIMULATOR VAPOR (33.7°C)		0.018	13:36
X[1] = 0.0180	(-0.0010)	(-0.0009)	
SIMULATOR VAPOR (33.8°C)		0.018	13:37
X[1] = 0.0181	(-0.0022)	(-0.0007)	
SIMULATOR VAPOR (33.8°C)		0.017	13:38
X[1] = 0.0178	(-0.0012)	(-0.0009)	
SIMULATOR VAPOR (33.8°C)		0.018	13:39
X[1] = 0.0180	(-0.0019)	(-0.0012)	
SIMULATOR VAPOR (33.8°C)		0.018	13:40
X[1] = 0.0183	(-0.0006)	(-0.0003)	
BLANK TEST		0.000	13:41

Average = 0.0178
Std Dev = 0.0004

86.8% recovery
ALB



10/26/2007 14:03

DIAGNOSTIC RESULT

DataMaster DMT: 102606
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 10/29/2007
Time: 10:28

VERMONT
DEPARTMENT OF HEALTH

VERSIONS
DMT 1.26
PIC 2.03
Questions 1.0
Reports 1.3

TEMPERATURES
Sample Chamber = 48.7 C
Breath Tube = 48.1 C
Simulator Hose = 0.0 C
Digital Sim = 33.8 C

SETTINGS
Lamp Voltage = 2.34 V
Cooler Voltage = 1.98 V
Bias Voltage = 121.1 V
Chopper Freq = 545.0 Hz

PUMP INFO
Flow Rate = 4.614 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.2949	0.2937
MIN(V)	0.2900	0.2917

FILTER INFO
Filter 1 0.291 Zero = true
Filter 2 0.648 Zero = true
Filter 3 1.460 Zero = true

INTERNAL STANDARD
Xq = 0.1382 1.09%

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

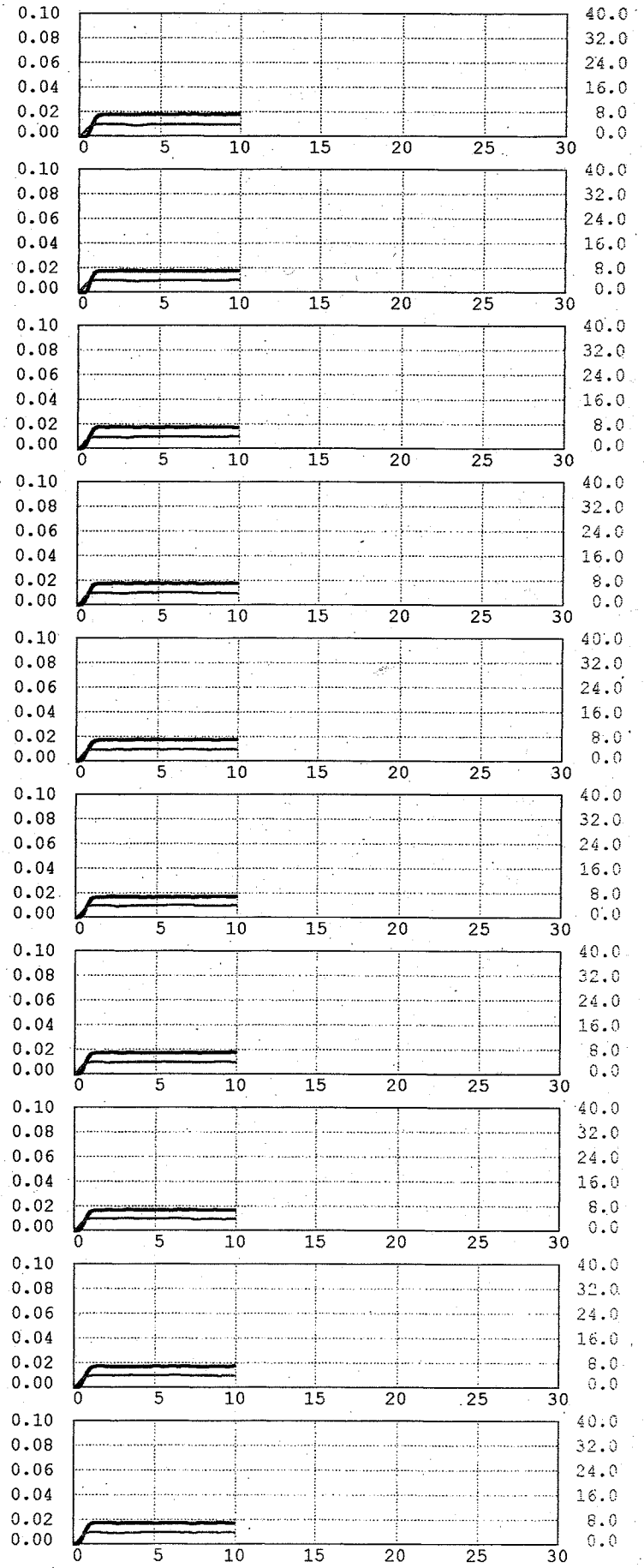
Date: 10/29/2007
Time: 10:30:05

SUPERVISOR NAME: H X B

SOLUTION LOT #: 07-15-020
SOLUTION CONCENTRATION: 0.021

BLANK TEST		0.000	10:31
INTERNAL STANDARD		PASSED	10:31
Xq = 0.1386 (0.77%)			
SIMULATOR VAPOR	(33.8°C)	0.018	10:31
X[1] = 0.0182	(-0.0012)	(-0.0008)	
SIMULATOR VAPOR	(33.8°C)	0.017	10:32
X[1] = 0.0177	(-0.0019)	(0.0012)	
SIMULATOR VAPOR	(33.8°C)	0.017	10:33
X[1] = 0.0175	(-0.0024)	(0.0001)	
SIMULATOR VAPOR	(33.8°C)	0.017	10:34
X[1] = 0.0179	(-0.0014)	(-0.0003)	
SIMULATOR VAPOR	(33.8°C)	0.017	10:35
X[1] = 0.0178	(-0.0022)	(0.0002)	
SIMULATOR VAPOR	(33.8°C)	0.016	10:36
X[1] = 0.0168	(-0.0026)	(-0.0008)	
SIMULATOR VAPOR	(33.8°C)	0.017	10:37
X[1] = 0.0176	(-0.0013)	(-0.0002)	
SIMULATOR VAPOR	(33.8°C)	0.017	10:38
X[1] = 0.0170	(-0.0040)	(0.0000)	
SIMULATOR VAPOR	(33.8°C)	0.017	10:39
X[1] = 0.0171	(-0.0018)	(-0.0008)	
SIMULATOR VAPOR	(33.8°C)	0.017	10:40
X[1] = 0.0173	(-0.0031)	(-0.0010)	
BLANK TEST		0.000	10:40

Average = 0.0170
Std Dev = 0.0005



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

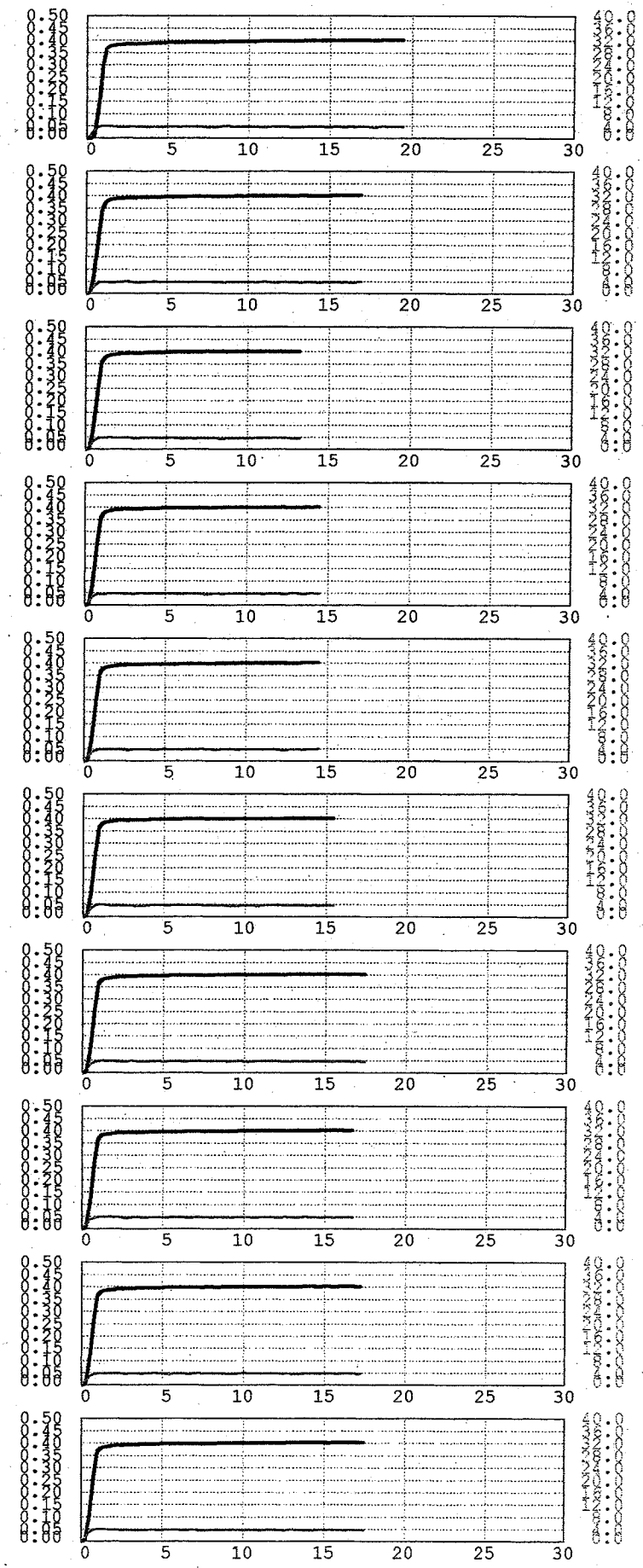
Date: 10/29/2007
Time: 10:50:41

SUPERVISOR NAME: H X B

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST		0.000	10:51
INTERNAL STANDARD		PASSED	10:51
Xq = 0.1385	(0.83%)		
SIMULATOR VAPOR	(33.9°C)	0.393	10:52
X[1] = 0.3932	(0.0122)	(0.0031)	
SIMULATOR VAPOR	(33.9°C)	0.395	10:53
X[1] = 0.3958	(0.0112)	(0.0022)	
SIMULATOR VAPOR	(33.9°C)	0.392	10:54
X[1] = 0.3923	(0.0094)	(0.0012)	
SIMULATOR VAPOR	(33.9°C)	0.393	10:55
X[1] = 0.3933	(0.0096)	(0.0019)	
SIMULATOR VAPOR	(33.9°C)	0.396	10:56
X[1] = 0.3961	(0.0120)	(0.0024)	
SIMULATOR VAPOR	(34.0°C)	0.393	10:57
X[1] = 0.3933	(0.0104)	(0.0016)	
SIMULATOR VAPOR	(34.0°C)	0.394	10:58
X[1] = 0.3947	(0.0100)	(0.0024)	
SIMULATOR VAPOR	(33.9°C)	0.393	10:59
X[1] = 0.3938	(0.0104)	(0.0015)	
SIMULATOR VAPOR	(33.9°C)	0.394	11:00
X[1] = 0.3941	(0.0102)	(0.0016)	
SIMULATOR VAPOR	(33.9°C)	0.394	11:02
X[1] = 0.3943	(0.0106)	(0.0016)	
BLANK TEST		0.000	11:02

Average = 0.3937
Std Dev = 0.0012



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

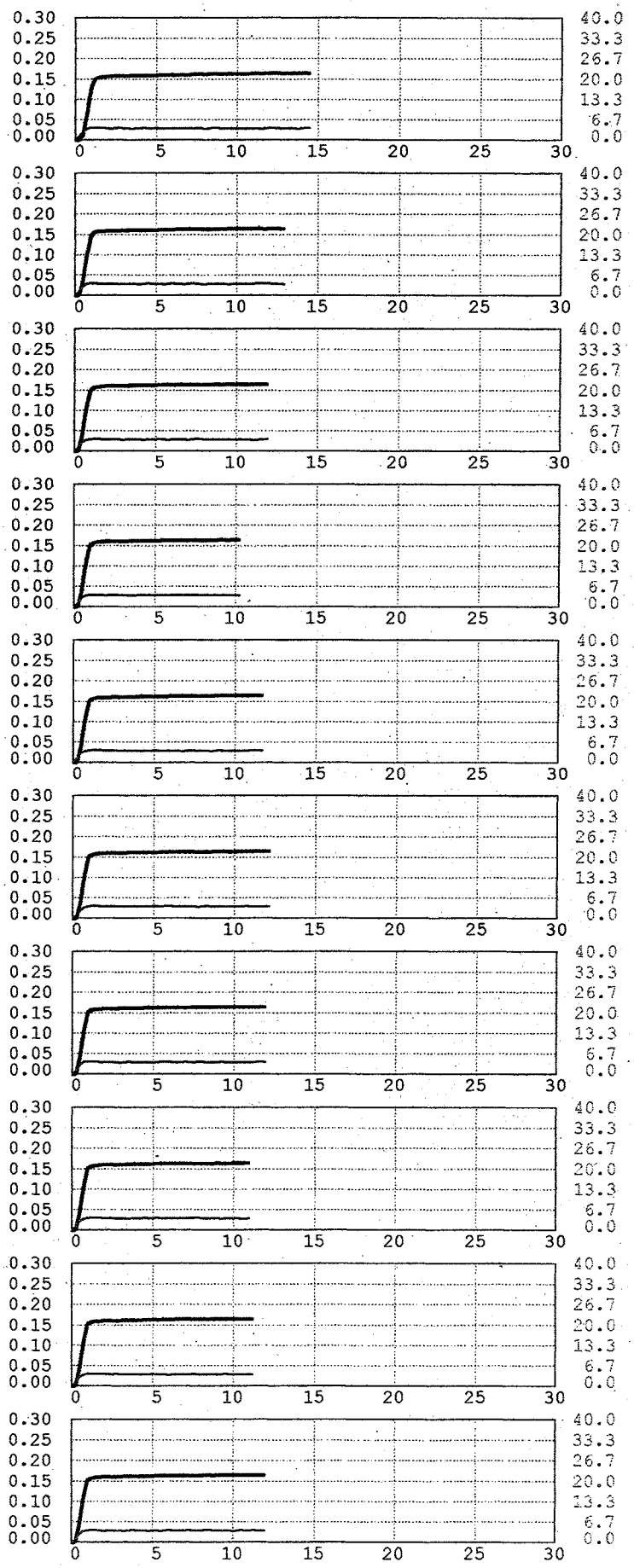
Date: 10/29/2007
Time: 11:11:16

SUPERVISOR NAME: H X B

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST		0.000	11:12
INTERNAL STANDARD		PASSED	11:12
Xq = 0.1390 (0.51%)			
SIMULATOR VAPOR (34.0°C)		0.159	11:12
X[1] = 0.1599 (0.0034)	(0.0014)		
SIMULATOR VAPOR (34.0°C)		0.160	11:13
X[1] = 0.1602 (0.0033)	(0.0013)		
SIMULATOR VAPOR (34.0°C)		0.160	11:14
X[1] = 0.1609 (0.0014)	(0.0012)		
SIMULATOR VAPOR (34.1°C)		0.160	11:15
X[1] = 0.1604 (0.0030)	(0.0009)		
SIMULATOR VAPOR (34.1°C)		0.160	11:16
X[1] = 0.1607 (0.0010)	(0.0001)		
SIMULATOR VAPOR (34.0°C)		0.160	11:17
X[1] = 0.1606 (0.0018)	(0.0003)		
SIMULATOR VAPOR (34.1°C)		0.161	11:18
X[1] = 0.1611 (0.0027)	(0.0007)		
SIMULATOR VAPOR (34.1°C)		0.160	11:19
X[1] = 0.1602 (0.0020)	(0.0003)		
SIMULATOR VAPOR (34.0°C)		0.160	11:20
X[1] = 0.1609 (0.0033)	(0.0003)		
SIMULATOR VAPOR (34.0°C)		0.160	11:21
X[1] = 0.1604 (0.0017)	(0.0007)		
BLANK TEST		0.000	11:22

Average = 0.1600
Std Dev = 0.0005



10/29/2007 11:22

4-36

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

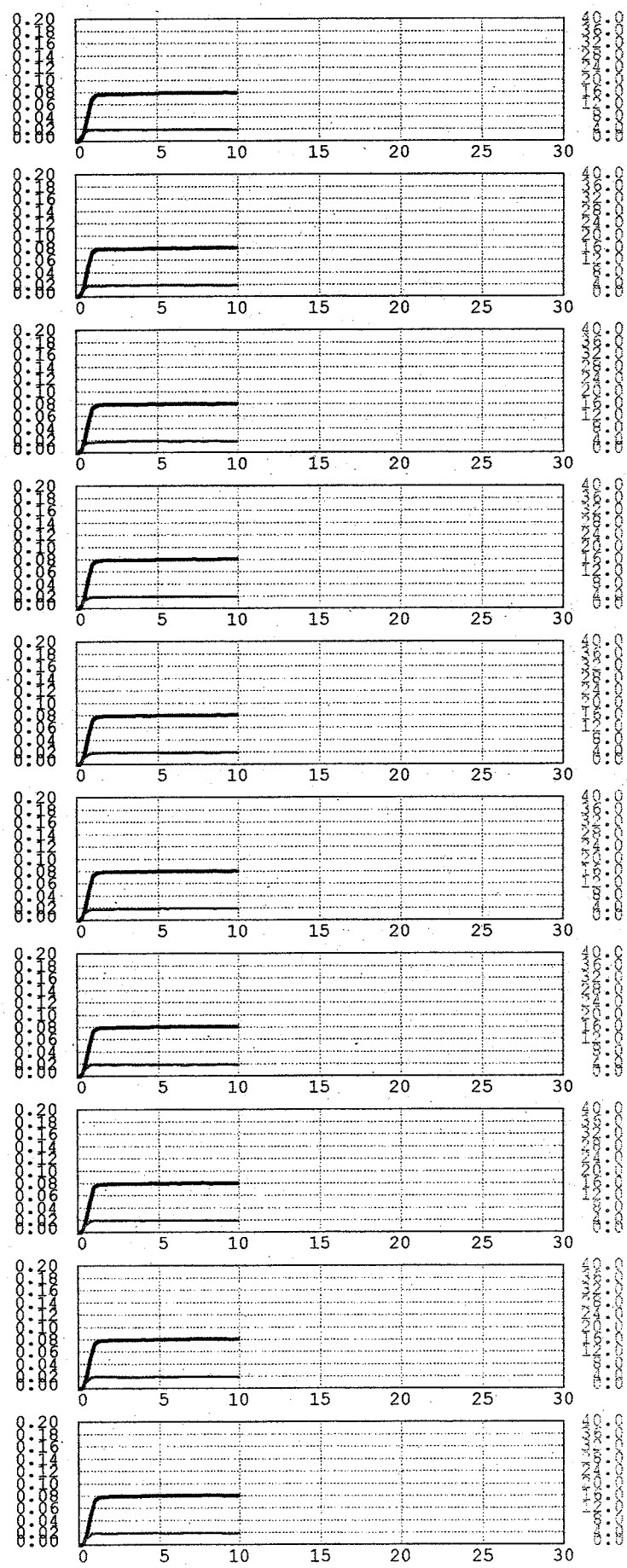
Date: 10/29/2007
Time: 11:37:55

SUPERVISOR NAME: H X B

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST	0.000	11:38
INTERNAL STANDARD	PASSED	11:38
Xq = 0.1381 (1.15%)		
SIMULATOR VAPOR (34.0°C)	0.077	11:39
X[1] = 0.0773 (-0.0008) (0.0018)		
SIMULATOR VAPOR (34.1°C)	0.078	11:40
X[1] = 0.0781 (0.0005) (0.0007)		
SIMULATOR VAPOR (34.0°C)	0.078	11:41
X[1] = 0.0785 (-0.0011) (-0.0003)		
SIMULATOR VAPOR (34.0°C)	0.078	11:42
X[1] = 0.0788 (-0.0003) (0.0000)		
SIMULATOR VAPOR (34.0°C)	0.078	11:43
X[1] = 0.0788 (-0.0003) (0.0000)		
SIMULATOR VAPOR (34.0°C)	0.079	11:44
X[1] = 0.0791 (0.0000) (-0.0003)		
SIMULATOR VAPOR (33.9°C)	0.079	11:45
X[1] = 0.0792 (0.0002) (0.0000)		
SIMULATOR VAPOR (34.0°C)	0.079	11:46
X[1] = 0.0792 (-0.0003) (0.0002)		
SIMULATOR VAPOR (34.0°C)	0.079	11:47
X[1] = 0.0791 (0.0000) (-0.0001)		
SIMULATOR VAPOR (34.1°C)	0.078	11:47
X[1] = 0.0787 (-0.0013) (0.0002)		
BLANK TEST	0.000	11:48

Average = 0.0783
Std Dev = 0.0007



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

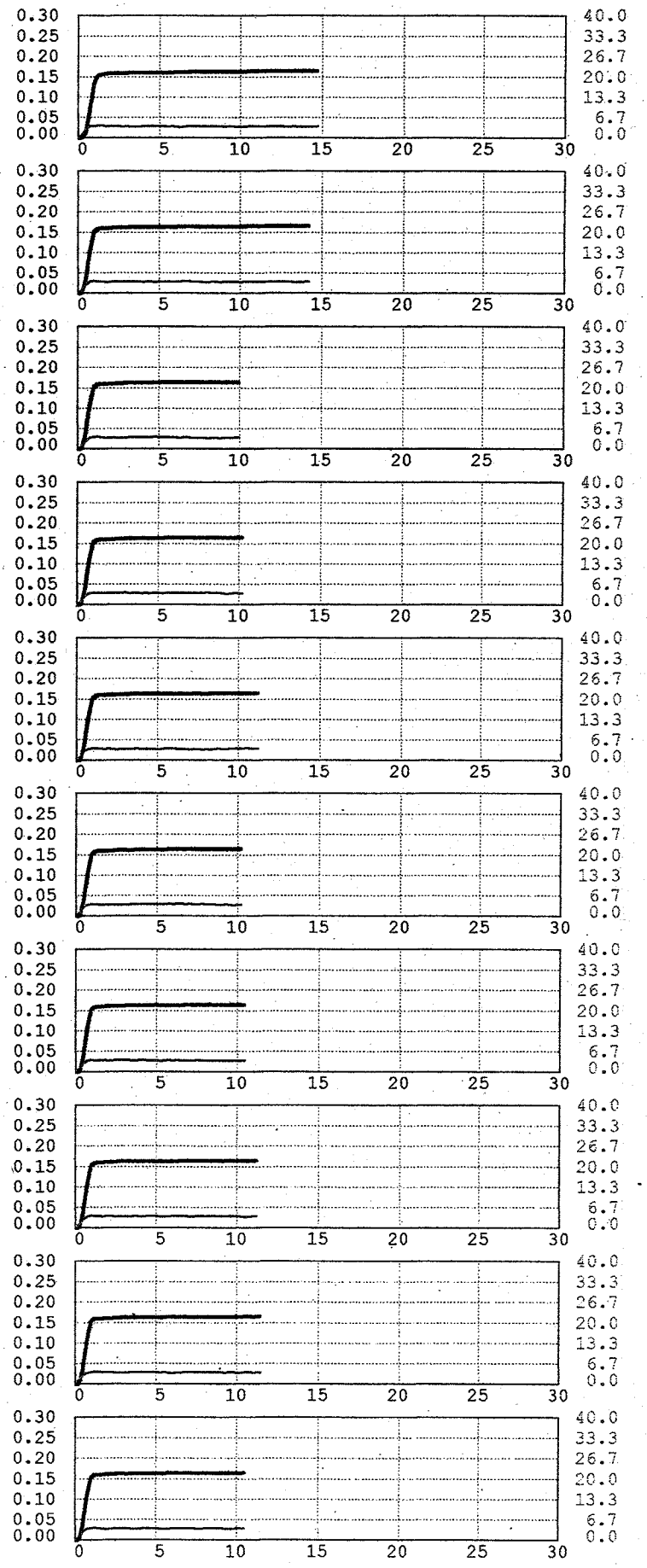
Date: 10/31/2007
Time: 09:15:16

SUPERVISOR NAME: S E H

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST		0.000	09:16
INTERNAL STANDARD		PASSED	09:16
Xq = 0.1381 (1.15%)			
SIMULATOR VAPOR (34.1°C)		0.161	09:16
X[1] = 0.1610 (0.0024)	(0.0011)		
SIMULATOR VAPOR (34.0°C)		0.161	09:17
X[1] = 0.1619 (0.0032)	(0.0009)		
SIMULATOR VAPOR (34.0°C)		0.161	09:18
X[1] = 0.1613 (0.0020)	(-0.0006)		
SIMULATOR VAPOR (34.1°C)		0.161	09:19
X[1] = 0.1615 (0.0024)	(-0.0002)		
SIMULATOR VAPOR (34.1°C)		0.161	09:20
X[1] = 0.1610 (0.0018)	(-0.0005)		
SIMULATOR VAPOR (34.0°C)		0.161	09:21
X[1] = 0.1617 (0.0014)	(-0.0006)		
SIMULATOR VAPOR (34.0°C)		0.161	09:22
X[1] = 0.1613 (0.0030)	(-0.0002)		
SIMULATOR VAPOR (34.1°C)		0.161	09:23
X[1] = 0.1616 (0.0020)	(-0.0009)		
SIMULATOR VAPOR (34.0°C)		0.161	09:24
X[1] = 0.1616 (0.0022)	(0.0000)		
SIMULATOR VAPOR (34.1°C)		0.161	09:25
X[1] = 0.1612 (0.0026)	(0.0004)		
BLANK TEST		0.000	09:26

Average = 0.1610
Std Dev = 0.0000



10/31/2007 11:01

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

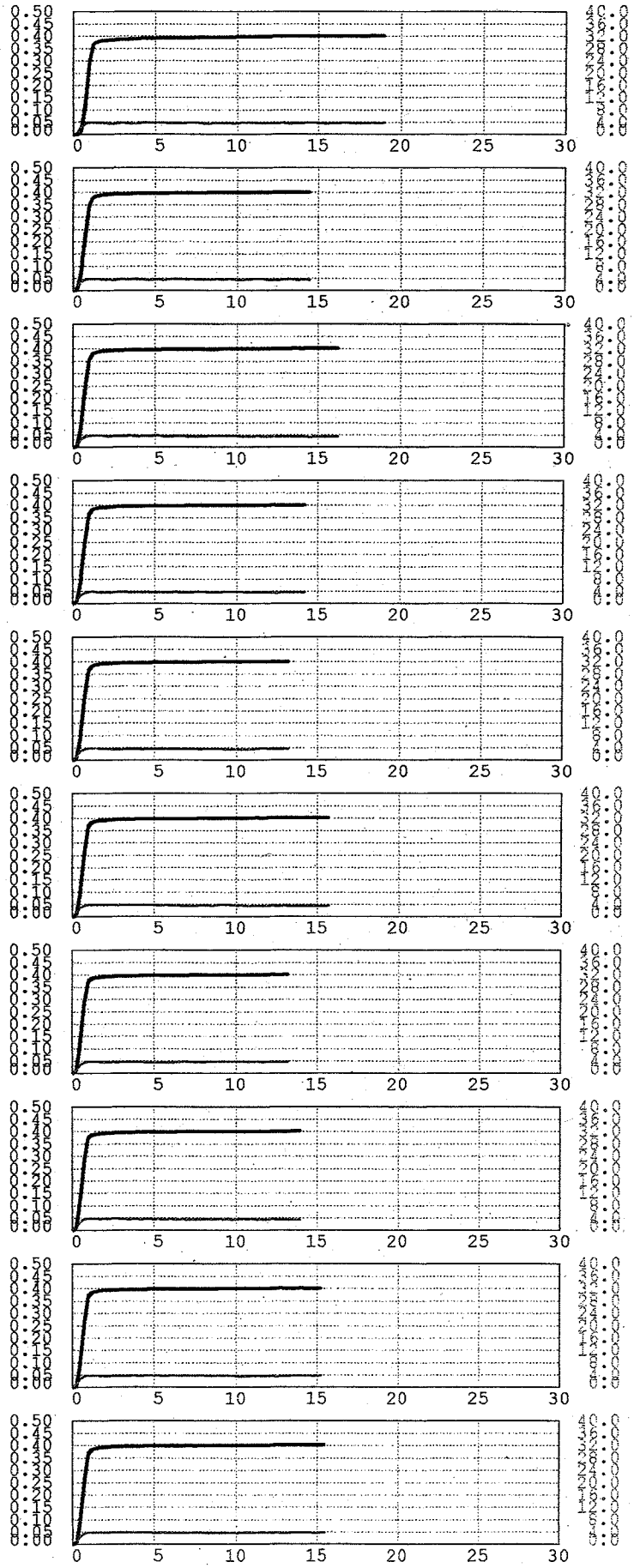
Date: 10/31/2007
Time: 09:32:22

SUPERVISOR NAME: S E H

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST		0.000	09:33
INTERNAL STANDARD		PASSED	09:33
Xq = 0.1385	(0.83%)		
SIMULATOR VAPOR (33.9°C)		0.393	09:33
X[1] = 0.3938	(0.0107)	(0.0020)	
SIMULATOR VAPOR (34.0°C)		0.392	09:35
X[1] = 0.3927	(0.0108)	(0.0021)	
SIMULATOR VAPOR (33.9°C)		0.393	09:36
X[1] = 0.3936	(0.0090)	(0.0018)	
SIMULATOR VAPOR (34.0°C)		0.393	09:37
X[1] = 0.3937	(0.0108)	(0.0018)	
SIMULATOR VAPOR (33.9°C)		0.393	09:38
X[1] = 0.3935	(0.0097)	(0.0023)	
SIMULATOR VAPOR (34.0°C)		0.393	09:39
X[1] = 0.3938	(0.0110)	(0.0020)	
SIMULATOR VAPOR (34.0°C)		0.393	09:40
X[1] = 0.3938	(0.0107)	(0.0015)	
SIMULATOR VAPOR (33.9°C)		0.394	09:41
X[1] = 0.3940	(0.0109)	(0.0009)	
SIMULATOR VAPOR (33.9°C)		0.394	09:42
X[1] = 0.3943	(0.0106)	(0.0028)	
SIMULATOR VAPOR (33.9°C)		0.395	09:43
X[1] = 0.3950	(0.0116)	(0.0032)	
BLANK TEST		0.000	09:44

Average = 0.3933
Std Dev = 0.0008



10/31/2007 11:05

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

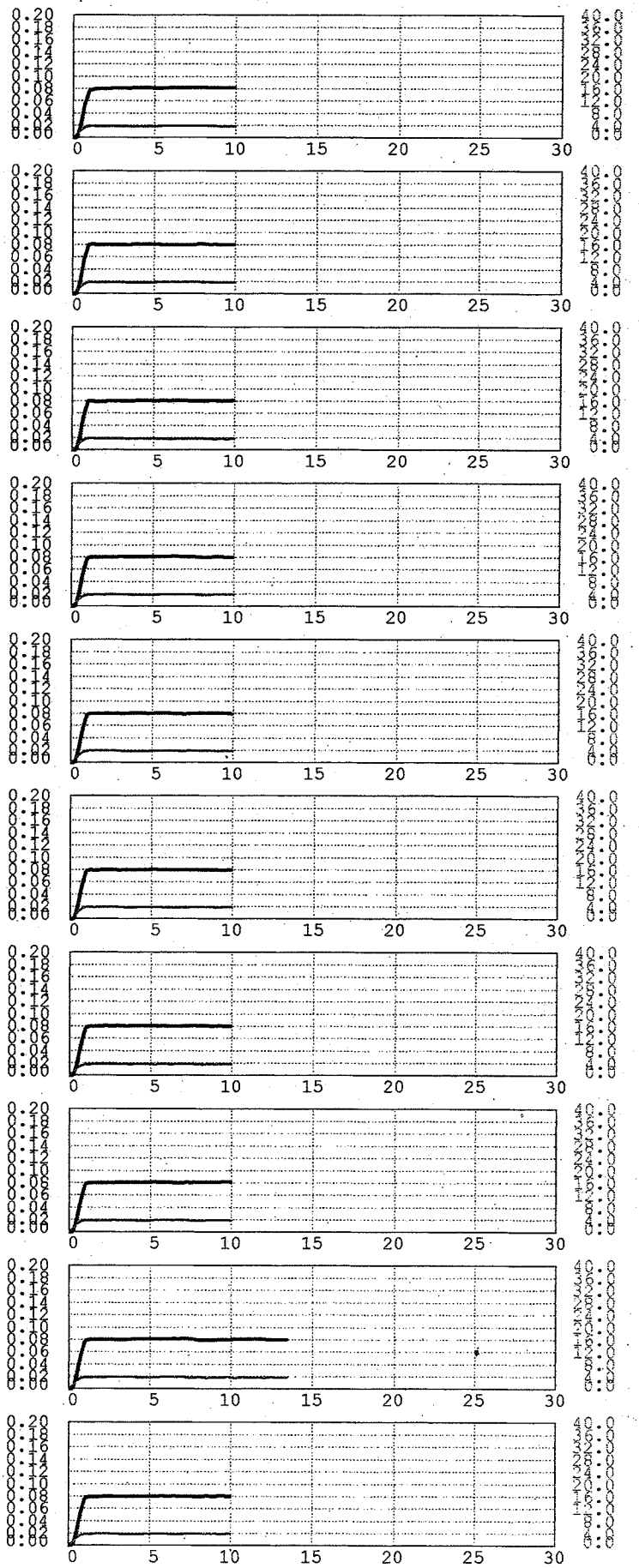
Date: 10/31/2007
Time: 09:50:45

SUPERVISOR NAME: S E H

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST		0.000	09:51
INTERNAL STANDARD		PASSED	09:51
Xq = 0.1395 (0.13%)			
SIMULATOR VAPOR	(34.0°C)	0.080	09:52
X[1] = 0.0808	(0.0009)	(0.0001)	
SIMULATOR VAPOR	(33.9°C)	0.080	09:53
X[1] = 0.0803	(-0.0005)	(0.0005)	
SIMULATOR VAPOR	(34.0°C)	0.079	09:54
X[1] = 0.0796	(-0.0004)	(0.0009)	
SIMULATOR VAPOR	(34.0°C)	0.079	09:55
X[1] = 0.0797	(0.0006)	(0.0007)	
SIMULATOR VAPOR	(34.0°C)	0.079	09:55
X[1] = 0.0791	(-0.0007)	(0.0003)	
SIMULATOR VAPOR	(34.0°C)	0.079	09:56
X[1] = 0.0799	(0.0002)	(-0.0008)	
SIMULATOR VAPOR	(34.0°C)	0.079	09:57
X[1] = 0.0795	(-0.0005)	(0.0002)	
SIMULATOR VAPOR	(34.0°C)	0.080	09:58
X[1] = 0.0803	(0.0006)	(0.0003)	
SIMULATOR VAPOR	(33.9°C)	0.079	09:59
X[1] = 0.0794	(0.0000)	(-0.0010)	
SIMULATOR VAPOR	(33.9°C)	0.078	10:00
X[1] = 0.0786	(-0.0001)	(0.0000)	
BLANK TEST		0.000	10:01

Average = 0.0792
Std Dev = 0.0006



10/31/2007 11:06

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

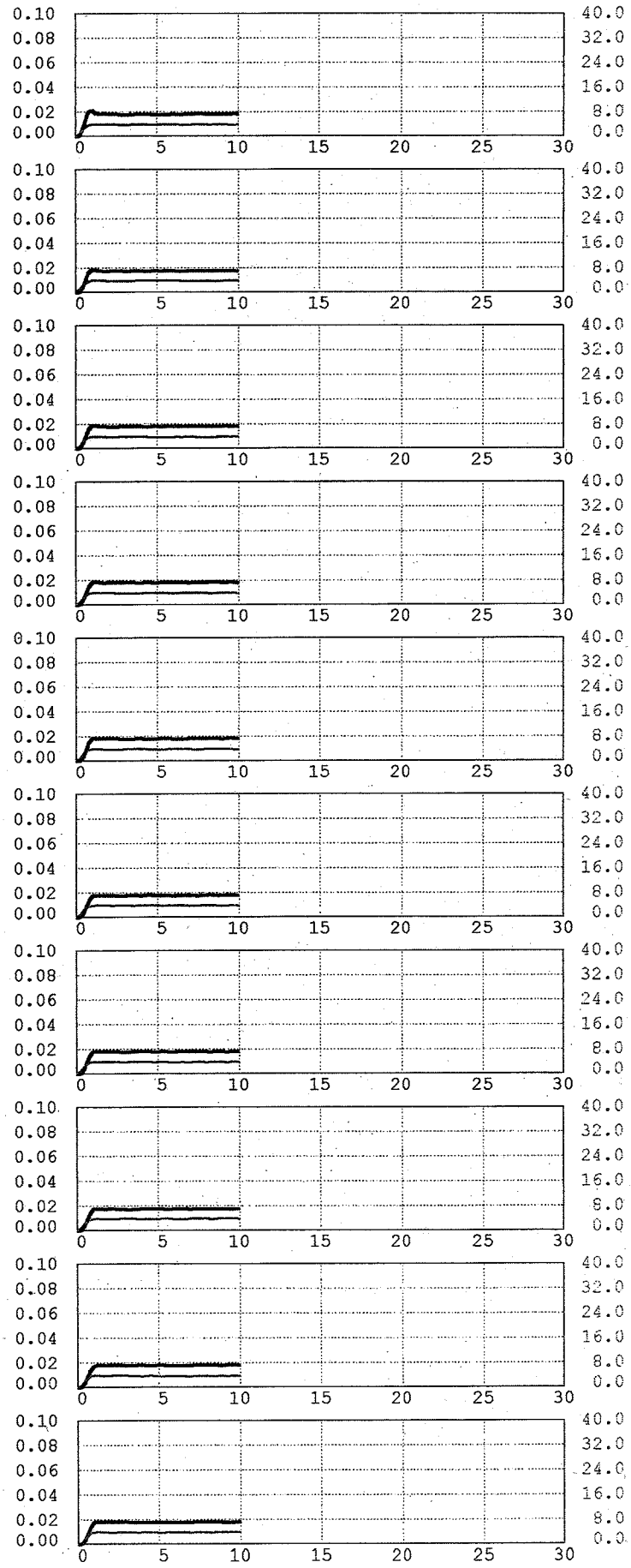
Date: 10/31/2007
Time: 10:37:22

SUPERVISOR NAME: S E H

SOLUTION LOT #: 07-15-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST		0.000	10:38
INTERNAL STANDARD		PASSED	10:38
Xq = 0.1388 (0.64%)			
SIMULATOR VAPOR (33.8°C)		0.018	10:38
X[1] = 0.0183	(-0.0009)	(0.0006)	
SIMULATOR VAPOR (33.9°C)		0.017	10:39
X[1] = 0.0176	(-0.0009)	(0.0002)	
SIMULATOR VAPOR (33.9°C)		0.018	10:40
X[1] = 0.0180	(-0.0007)	(0.0001)	
SIMULATOR VAPOR (33.9°C)		0.018	10:41
X[1] = 0.0182	(-0.0001)	(-0.0001)	
SIMULATOR VAPOR (33.8°C)		0.018	10:42
X[1] = 0.0180	(-0.0015)	(-0.0002)	
SIMULATOR VAPOR (33.8°C)		0.017	10:43
X[1] = 0.0178	(-0.0008)	(-0.0001)	
SIMULATOR VAPOR (33.8°C)		0.017	10:44
X[1] = 0.0177	(-0.0019)	(-0.0006)	
SIMULATOR VAPOR (33.8°C)		0.017	10:45
X[1] = 0.0177	(-0.0014)	(-0.0004)	
SIMULATOR VAPOR (33.8°C)		0.018	10:46
X[1] = 0.0181	(-0.0018)	(0.0000)	
SIMULATOR VAPOR (33.8°C)		0.017	10:47
X[1] = 0.0178	(-0.0012)	(-0.0007)	
BLANK TEST		0.000	10:48

Average = 0.0175
Std Dev = 0.0005



10/31/2007 11:07

DIAGNOSTIC RESULT

DataMaster DMT: 102606
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 11/06/2007
Time: 10:09

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.26
PIC 2.03
Questions 1.0
Reports 1.3

TEMPERATURES
Sample Chamber = 48.9 C
Breath Tube    = 47.5 C
Simulator Hose =  0.0 C
Digital Sim    = 33.9 C

SETTINGS
Lamp Voltage   = 2.34 V
Cooler Voltage = 1.98 V
Bias Voltage   = 121.1 V
Chopper Freq   = 544.7 Hz

PUMP INFO
Flow Rate = 4.425 L/M

DETECTOR INFO
PUMP     ON       OFF
MAX(V)   0.3014   0.3028
MIN(V)   0.2978   0.2992

FILTER INFO
Filter 1  0.301  Zero = true
Filter 2  0.658  Zero = true
Filter 3  1.465  Zero = true

INTERNAL STANDARD
Xq = 0.1396  0.06%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

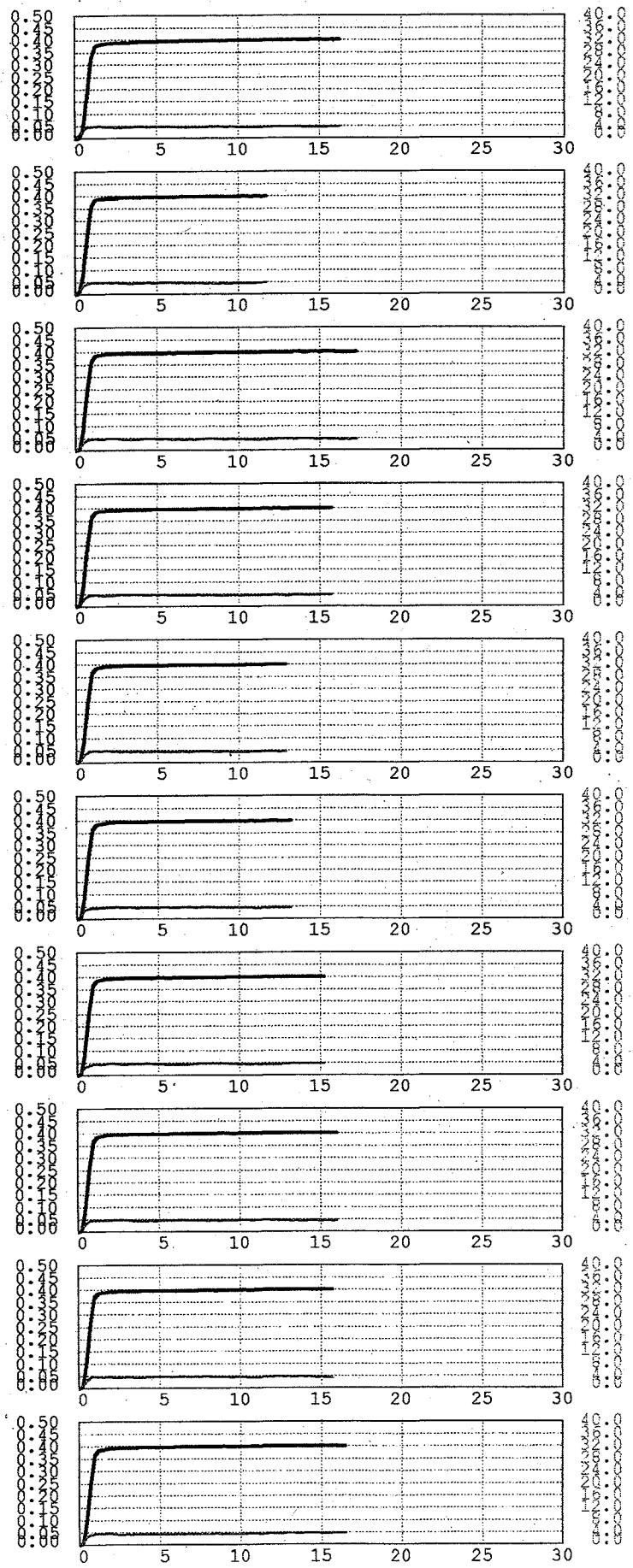
Date: 11/06/2007
Time: 10:11:01

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST		0.000	10:11
INTERNAL STANDARD		PASSED	10:12
Xq = 0.1386 (0.77%)			
SIMULATOR VAPOR	(33.9°C)	0.393	10:12
X[1] = 0.3939	(0.0130)	(0.0018)	
SIMULATOR VAPOR	(33.9°C)	0.390	10:13
X[1] = 0.3903	(0.0094)	(-0.0009)	
SIMULATOR VAPOR	(33.9°C)	0.393	10:14
X[1] = 0.3933	(0.0111)	(0.0007)	
SIMULATOR VAPOR	(34.0°C)	0.392	10:15
X[1] = 0.3924	(0.0098)	(-0.0004)	
SIMULATOR VAPOR	(33.9°C)	0.391	10:16
X[1] = 0.3914	(0.0086)	(-0.0004)	
SIMULATOR VAPOR	(34.0°C)	0.391	10:17
X[1] = 0.3916	(0.0082)	(-0.0008)	
SIMULATOR VAPOR	(34.0°C)	0.393	10:18
X[1] = 0.3936	(0.0117)	(-0.0001)	
SIMULATOR VAPOR	(33.9°C)	0.392	10:20
X[1] = 0.3929	(0.0102)	(-0.0005)	
SIMULATOR VAPOR	(33.9°C)	0.394	10:21
X[1] = 0.3944	(0.0105)	(0.0003)	
SIMULATOR VAPOR	(33.9°C)	0.392	10:22
X[1] = 0.3921	(0.0098)	(0.0004)	
BLANK TEST		0.000	10:22

Average = 0.3921
Std Dev = 0.0012



11/06/2007 10:23

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

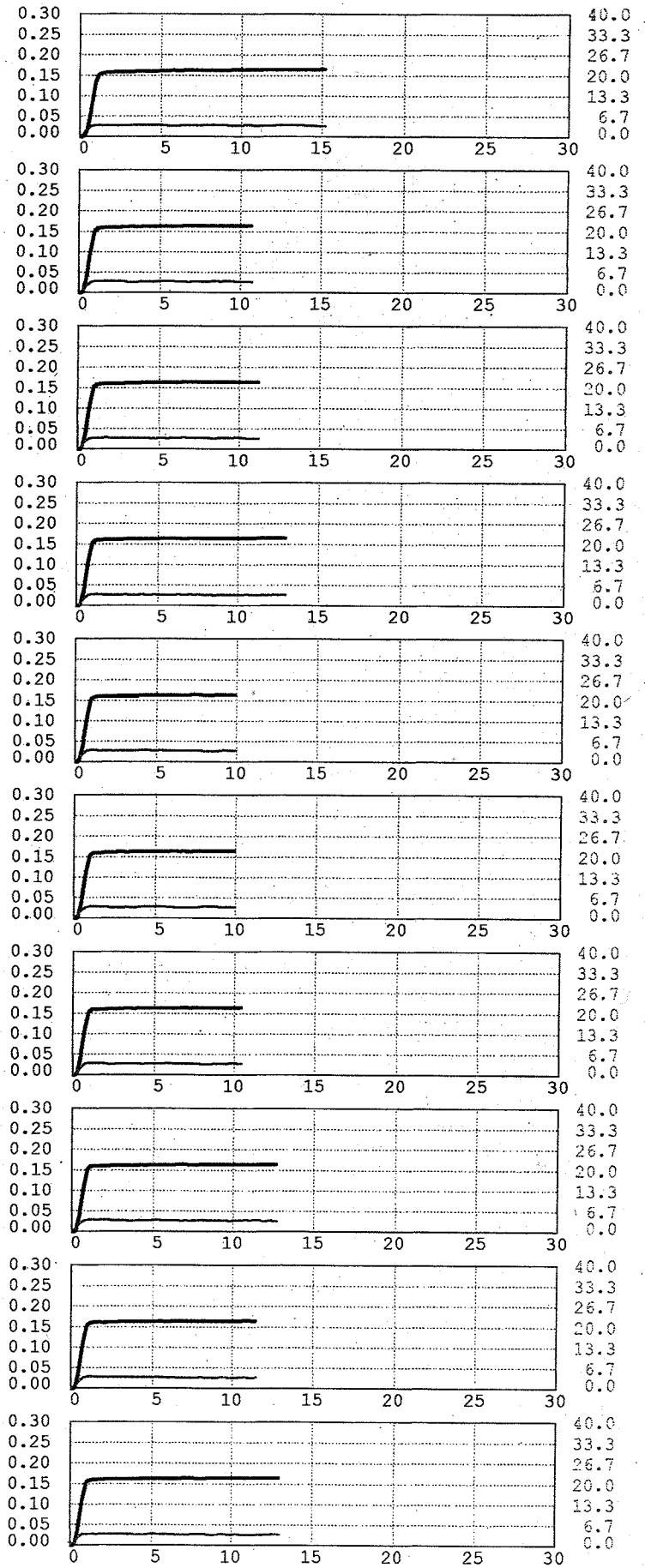
Date: 11/06/2007
Time: 10:29:46

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST		0.000	10:30
INTERNAL STANDARD		PASSED	10:30
Xq = 0.1386 (0.778)			
SIMULATOR VAPOR	(34.1°C)	0.161	10:31
X[1] = 0.1613 (0.0045)		(0.0002)	
SIMULATOR VAPOR	(34.1°C)	0.162	10:32
X[1] = 0.1620 (0.0050)		(0.0002)	
SIMULATOR VAPOR	(34.1°C)	0.161	10:33
X[1] = 0.1614 (0.0022)		(0.0005)	
SIMULATOR VAPOR	(34.0°C)	0.162	10:34
X[1] = 0.1623 (0.0037)		(0.0006)	
SIMULATOR VAPOR	(34.1°C)	0.160	10:35
X[1] = 0.1607 (0.0027)		(-0.0004)	
SIMULATOR VAPOR	(34.1°C)	0.161	10:36
X[1] = 0.1611 (0.0039)		(-0.0002)	
SIMULATOR VAPOR	(34.0°C)	0.160	10:37
X[1] = 0.1607 (0.0022)		(-0.0013)	
SIMULATOR VAPOR	(34.1°C)	0.161	10:38
X[1] = 0.1611 (0.0017)		(0.0000)	
SIMULATOR VAPOR	(34.1°C)	0.161	10:39
X[1] = 0.1617 (0.0020)		(-0.0004)	
SIMULATOR VAPOR	(34.0°C)	0.161	10:40
X[1] = 0.1610 (0.0023)		(0.0003)	
BLANK TEST		0.000	10:41

Average = 0.1610
Std Dev = 0.0007



11/06/2007 10:41

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

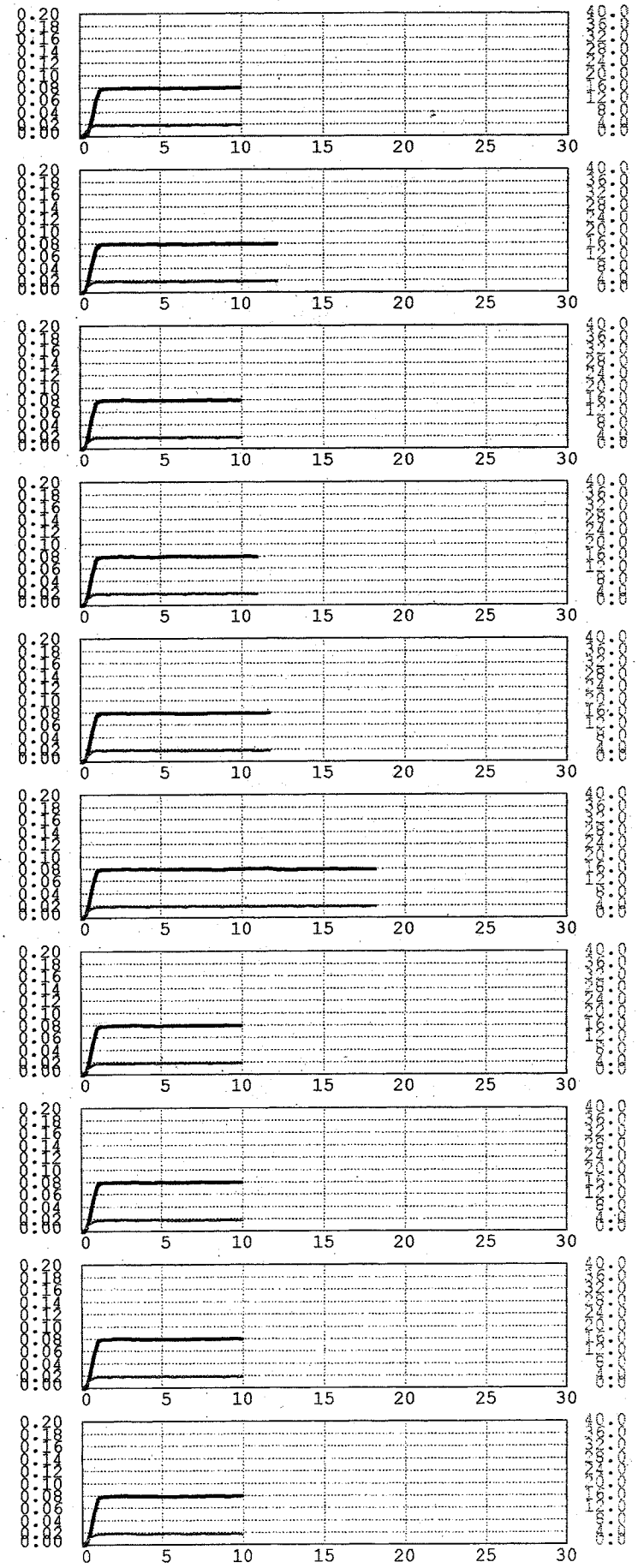
Date: 11/06/2007
Time: 10:48:39

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST		0.000	10:49
INTERNAL STANDARD		PASSED	10:49
Xq = 0.1382 (1.09%)			
SIMULATOR VAPOR	(34.0°C)	0.078	10:49
X[1] = 0.0780	(-0.0003)	(0.0003)	
SIMULATOR VAPOR	(34.0°C)	0.078	10:50
X[1] = 0.0786	(0.0011)	(-0.0003)	
SIMULATOR VAPOR	(34.0°C)	0.079	10:51
X[1] = 0.0793	(0.0002)	(0.0000)	
SIMULATOR VAPOR	(34.0°C)	0.079	10:52
X[1] = 0.0790	(0.0017)	(0.0006)	
SIMULATOR VAPOR	(34.0°C)	0.078	10:53
X[1] = 0.0784	(-0.0014)	(-0.0005)	
SIMULATOR VAPOR	(33.9°C)	0.078	10:55
X[1] = 0.0789	(0.0004)	(-0.0002)	
SIMULATOR VAPOR	(34.0°C)	0.078	10:56
X[1] = 0.0782	(0.0001)	(-0.0003)	
SIMULATOR VAPOR	(34.0°C)	0.077	10:57
X[1] = 0.0778	(-0.0007)	(0.0005)	
SIMULATOR VAPOR	(34.0°C)	0.079	10:57
X[1] = 0.0790	(-0.0001)	(-0.0001)	
SIMULATOR VAPOR	(33.9°C)	0.079	10:58
X[1] = 0.0790	(-0.0017)	(0.0011)	
BLANK TEST		0.000	10:59

Average = 0.0783
Std Dev = 0.0007



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

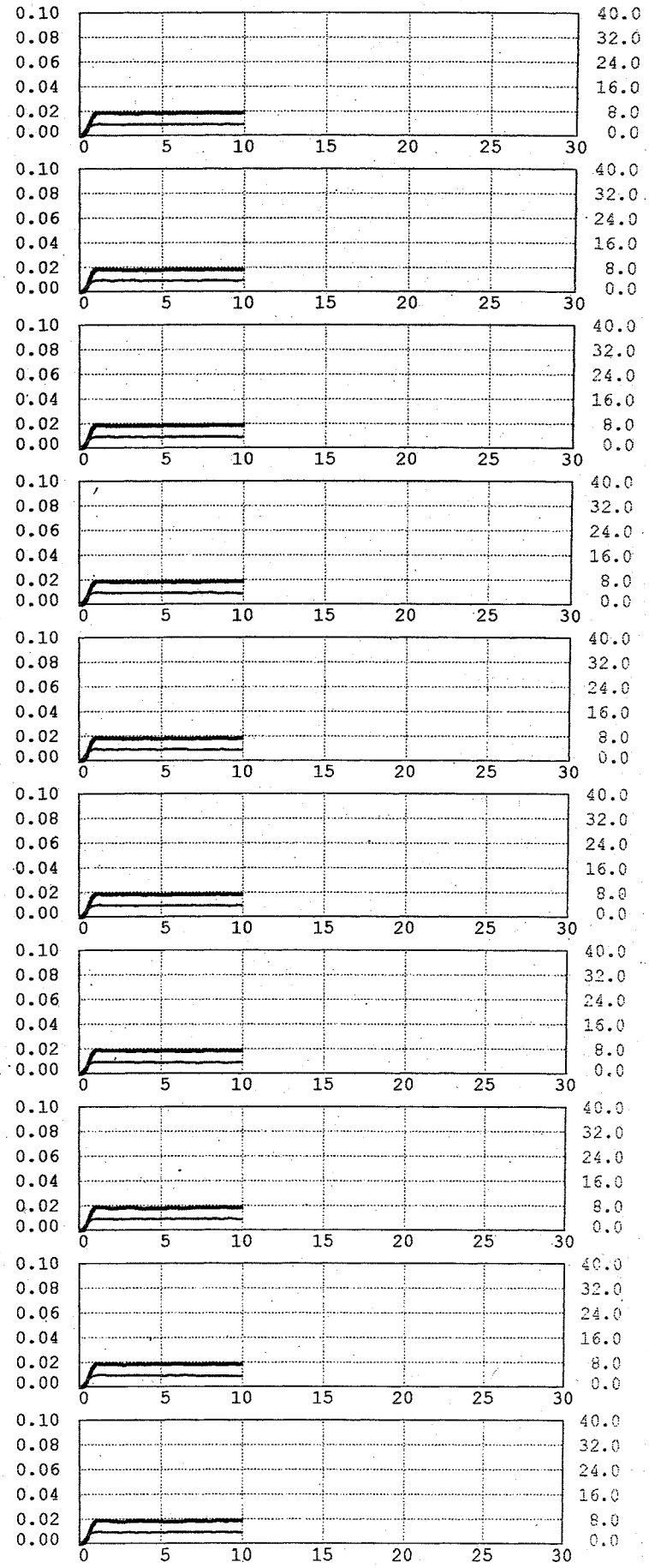
Date: 11/06/2007
Time: 11:07:57

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-15-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST		0.000	11:08
INTERNAL STANDARD		PASSED	11:08
Xq = 0.1393	(0.26%)		
SIMULATOR VAPOR	(33.7°C)	0.018	11:09
X[1] = 0.0182	(-0.0003)	(0.0010)	
SIMULATOR VAPOR	(33.7°C)	0.017	11:10
X[1] = 0.0176	(-0.0011)	(-0.0006)	
SIMULATOR VAPOR	(33.7°C)	0.017	11:11
X[1] = 0.0177	(-0.0019)	(-0.0005)	
SIMULATOR VAPOR	(33.8°C)	0.017	11:12
X[1] = 0.0177	(-0.0013)	(0.0000)	
SIMULATOR VAPOR	(33.8°C)	0.017	11:13
X[1] = 0.0172	(-0.0023)	(-0.0009)	
SIMULATOR VAPOR	(33.8°C)	0.017	11:14
X[1] = 0.0174	(-0.0023)	(-0.0001)	
SIMULATOR VAPOR	(33.8°C)	0.018	11:15
X[1] = 0.0182	(-0.0006)	(-0.0004)	
SIMULATOR VAPOR	(33.8°C)	0.018	11:16
X[1] = 0.0183	(-0.0025)	(-0.0001)	
SIMULATOR VAPOR	(33.9°C)	0.017	11:17
X[1] = 0.0178	(-0.0011)	(0.0000)	
SIMULATOR VAPOR	(33.8°C)	0.017	11:18
X[1] = 0.0178	(-0.0017)	(-0.0010)	
BLANK TEST		0.000	11:18

Average = 0.0173
Std Dev = 0.0005



11/06/2007 11:18

4-46

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

Date: 11/06/2007
Time: 11:35:12

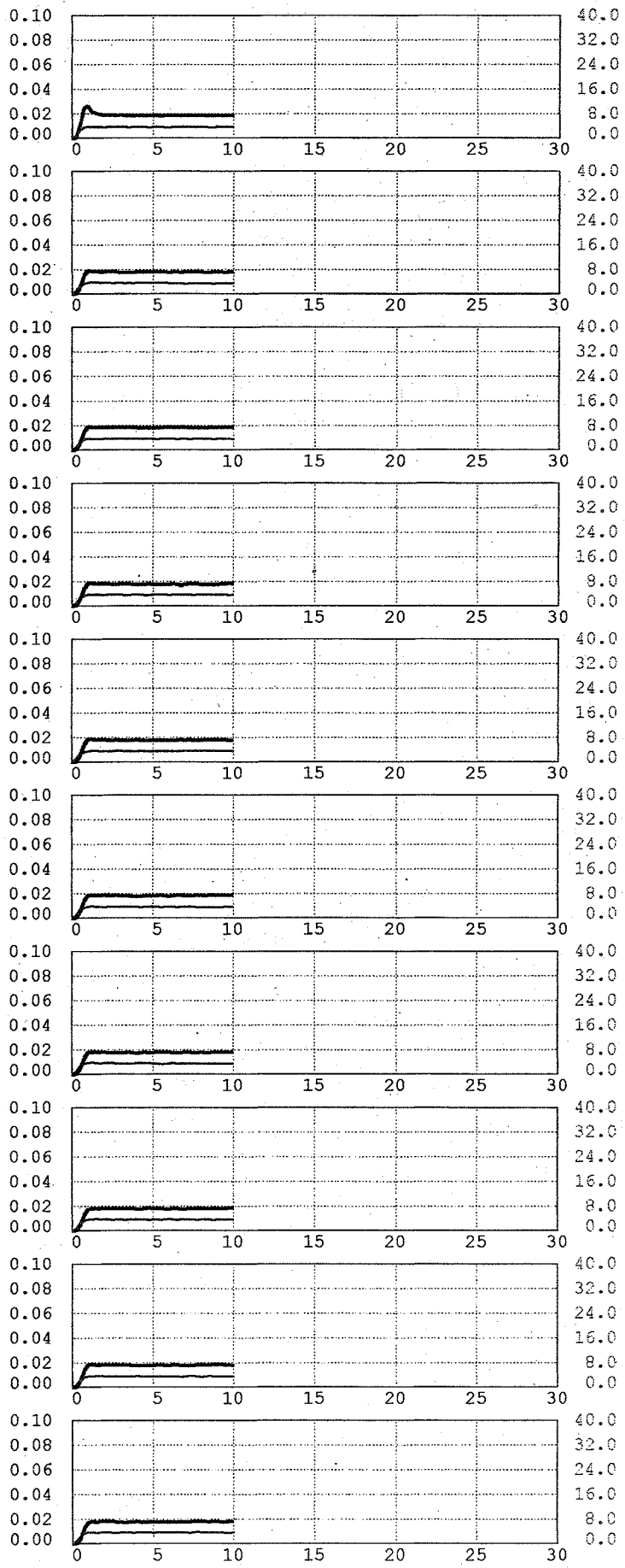
SUPERVISOR NAME: D M R

SOLUTION LOT #: 07-15-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST		0.000	11:36
INTERNAL STANDARD		PASSED	11:36
Xq = 0.1385 (0.83%)			
SIMULATOR VAPOR (33.7°C)		0.018	11:36
X[1] = 0.0184	(-0.0001)	(0.0005)	
SIMULATOR VAPOR (33.8°C)		0.017	11:37
X[1] = 0.0176	(-0.0013)	(-0.0008)	
SIMULATOR VAPOR (33.8°C)		0.018	11:38
X[1] = 0.0181	(-0.0005)	(-0.0003)	
SIMULATOR VAPOR (33.8°C)		0.017	11:39
X[1] = 0.0178	(-0.0017)	(0.0000)	
SIMULATOR VAPOR (33.8°C)		0.017	11:40
X[1] = 0.0175	(-0.0011)	(0.0000)	
SIMULATOR VAPOR (33.8°C)		0.018	11:41
X[1] = 0.0182	(-0.0011)	(0.0001)	
SIMULATOR VAPOR (33.8°C)		0.017	11:42
X[1] = 0.0177	(-0.0009)	(-0.0005)	
SIMULATOR VAPOR (33.7°C)		0.017	11:43
X[1] = 0.0178	(-0.0011)	(0.0001)	
SIMULATOR VAPOR (33.8°C)		0.017	11:44
X[1] = 0.0179	(-0.0011)	(-0.0005)	
SIMULATOR VAPOR (33.8°C)		0.018	11:45
X[1] = 0.0180	(-0.0014)	(-0.0004)	
BLANK TEST		0.000	11:45

Average = 0.0174
Std Dev = 0.0005

85% recovery
DMR 11/06/07



11/06/2007 11:47

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

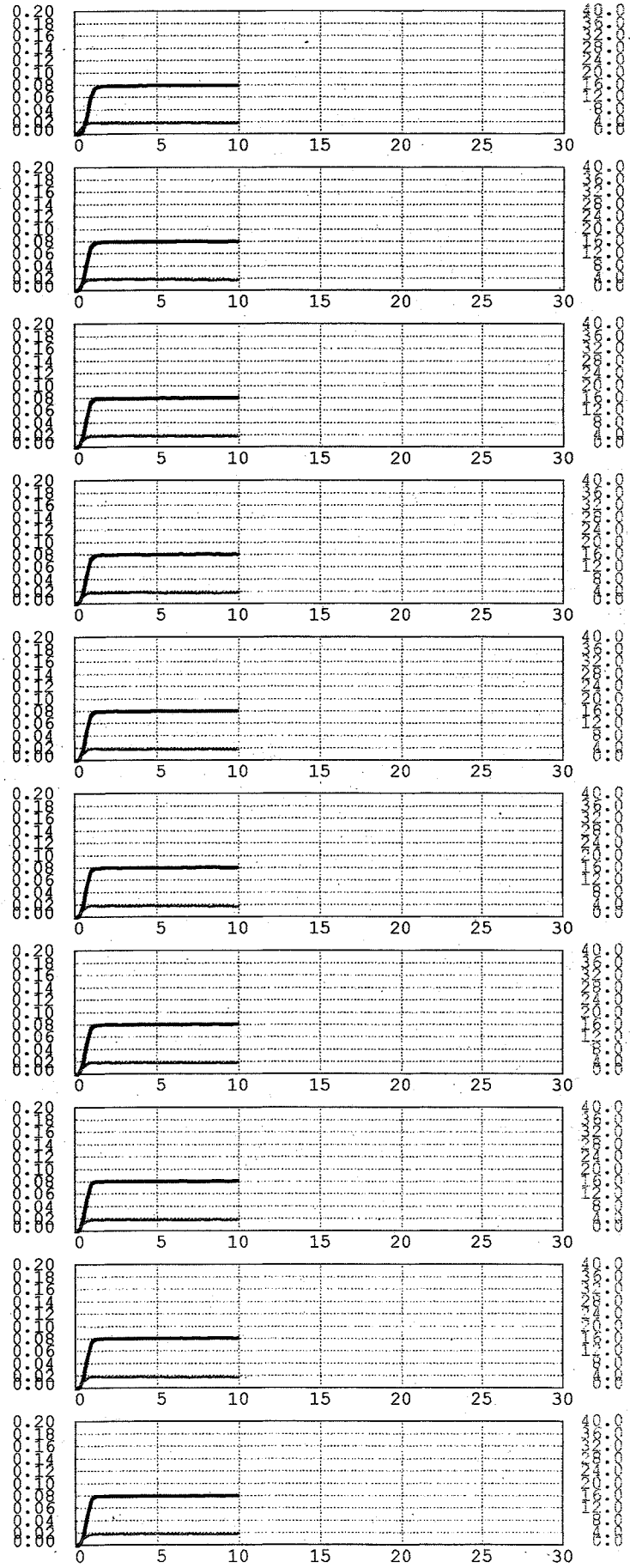
Date: 11/06/2007
Time: 11:54:14

SUPERVISOR NAME: D M R

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST		0.000	11:55
INTERNAL STANDARD		PASSED	11:55
Xq = 0.1382 (1.09%)			
SIMULATOR VAPOR (33.9°C)		0.077	11:55
X[1] = 0.0775	(0.0002)	(0.0004)	
SIMULATOR VAPOR (33.9°C)		0.077	11:56
X[1] = 0.0777	(0.0003)	(0.0008)	
SIMULATOR VAPOR (33.9°C)		0.077	11:57
X[1] = 0.0777	(0.0000)	(0.0003)	
SIMULATOR VAPOR (34.0°C)		0.077	11:58
X[1] = 0.0779	(0.0006)	(0.0011)	
SIMULATOR VAPOR (33.9°C)		0.077	11:59
X[1] = 0.0774	(-0.0005)	(0.0001)	
SIMULATOR VAPOR (34.0°C)		0.078	12:00
X[1] = 0.0783	(0.0013)	(0.0003)	
SIMULATOR VAPOR (34.0°C)		0.077	12:01
X[1] = 0.0778	(-0.0011)	(0.0014)	
SIMULATOR VAPOR (34.0°C)		0.078	12:02
X[1] = 0.0783	(0.0007)	(0.0003)	
SIMULATOR VAPOR (33.9°C)		0.078	12:03
X[1] = 0.0784	(-0.0003)	(-0.0011)	
SIMULATOR VAPOR (34.0°C)		0.077	12:04
X[1] = 0.0770	(-0.0002)	(0.0004)	
BLANK TEST		0.000	12:05

Average = 0.0773
Std Dev = 0.0005



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

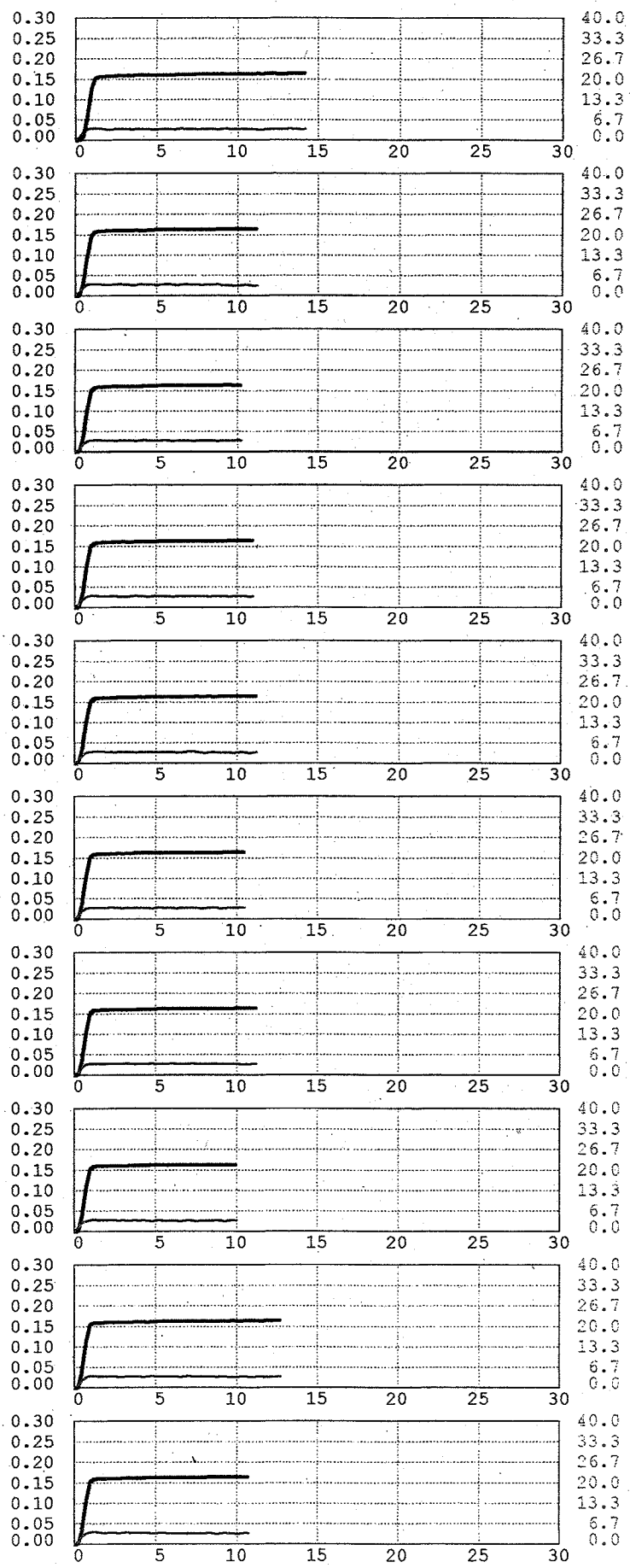
Date: 11/06/2007
Time: 12:10:36

SUPERVISOR NAME: D M R

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST		0.000	12:11
INTERNAL STANDARD		PASSED	12:11
Xq = 0.1385 (0.83%)			
SIMULATOR VAPOR	(34.1°C)	0.160	12:12
X[1] = 0.1608 (0.0029)	(0.0017)		
SIMULATOR VAPOR	(34.1°C)	0.160	12:13
X[1] = 0.1601 (0.0030)	(0.0018)		
SIMULATOR VAPOR	(34.0°C)	0.159	12:14
X[1] = 0.1597 (0.0016)	(0.0013)		
SIMULATOR VAPOR	(34.1°C)	0.160	12:15
X[1] = 0.1604 (0.0032)	(0.0016)		
SIMULATOR VAPOR	(34.1°C)	0.160	12:16
X[1] = 0.1607 (0.0024)	(0.0009)		
SIMULATOR VAPOR	(34.1°C)	0.160	12:17
X[1] = 0.1608 (0.0034)	(0.0024)		
SIMULATOR VAPOR	(34.1°C)	0.160	12:18
X[1] = 0.1600 (0.0026)	(0.0015)		
SIMULATOR VAPOR	(34.1°C)	0.159	12:19
X[1] = 0.1599 (0.0014)	(0.0012)		
SIMULATOR VAPOR	(34.1°C)	0.160	12:20
X[1] = 0.1604 (0.0028)	(0.0010)		
SIMULATOR VAPOR	(34.1°C)	0.160	12:21
X[1] = 0.1604 (0.0023)	(0.0018)		
BLANK TEST		0.000	12:21

Average = 0.1598
Std Dev = 0.0004



11/06/2007 12:22

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

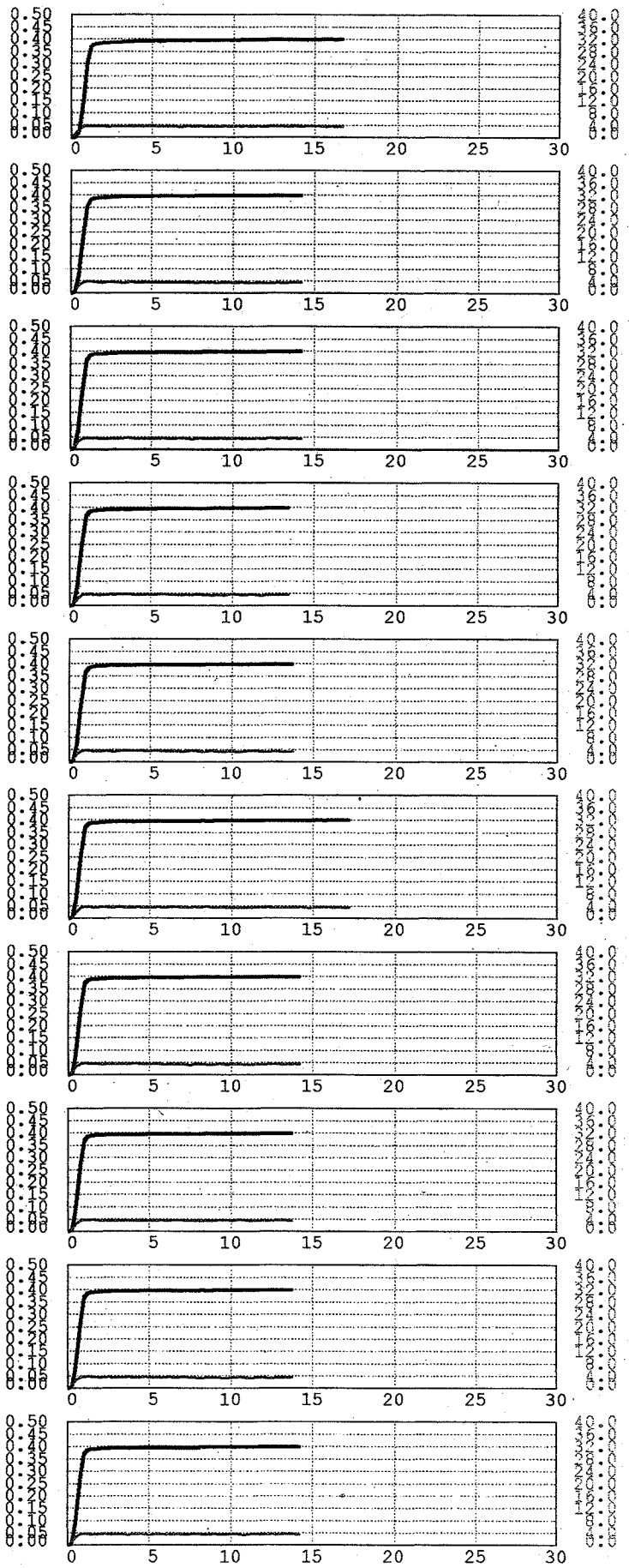
Date: 11/06/2007
Time: 12:30:06

SUPERVISOR NAME: D M R

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST		0.000	12:31
INTERNAL STANDARD		PASSED	12:31
Xq = 0.1388 (0.64%)			
SIMULATOR VAPOR (34.0°C)		0.392	12:31
X[1] = 0.3921	(0.0127)	(0.0064)	
SIMULATOR VAPOR (33.9°C)		0.391	12:32
X[1] = 0.3913	(0.0103)	(0.0049)	
SIMULATOR VAPOR (33.9°C)		0.391	12:33
X[1] = 0.3916	(0.0121)	(0.0055)	
SIMULATOR VAPOR (33.9°C)		0.391	12:34
X[1] = 0.3910	(0.0100)	(0.0041)	
SIMULATOR VAPOR (33.9°C)		0.391	12:36
X[1] = 0.3912	(0.0102)	(0.0046)	
SIMULATOR VAPOR (34.0°C)		0.391	12:37
X[1] = 0.3918	(0.0108)	(0.0041)	
SIMULATOR VAPOR (34.0°C)		0.391	12:38
X[1] = 0.3910	(0.0109)	(0.0044)	
SIMULATOR VAPOR (33.9°C)		0.390	12:39
X[1] = 0.3909	(0.0104)	(0.0043)	
SIMULATOR VAPOR (33.9°C)		0.390	12:40
X[1] = 0.3904	(0.0088)	(0.0048)	
SIMULATOR VAPOR (33.9°C)		0.391	12:41
X[1] = 0.3915	(0.0106)	(0.0044)	
BLANK TEST		0.000	12:42

Average = 0.3909
Std Dev = 0.0006



11/06/2007 12:43

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

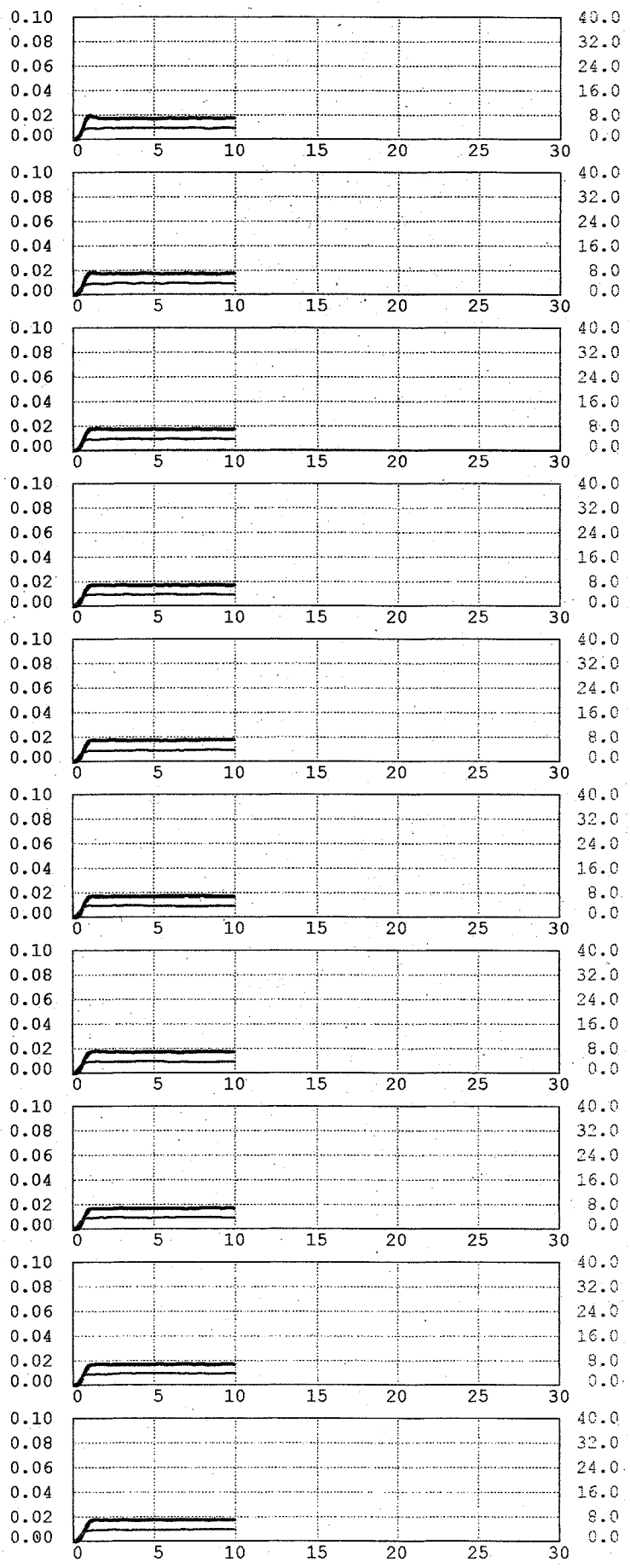
Date: 11/07/2007
Time: 08:34:20

SUPERVISOR NAME: S E H

SOLUTION LOT #: 07-05-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST		0.000	08:35
INTERNAL STANDARD		PASSED	08:35
Xq = 0.1384 (0.90%)			
SIMULATOR VAPOR (33.8°C)		0.017	08:35
X[1] = 0.0177	(-0.0013)	(0.0001)	
SIMULATOR VAPOR (33.8°C)		0.017	08:36
X[1] = 0.0174	(-0.0015)	(-0.0011)	
SIMULATOR VAPOR (33.8°C)		0.017	08:37
X[1] = 0.0176	(-0.0027)	(-0.0001)	
SIMULATOR VAPOR (33.8°C)		0.017	08:38
X[1] = 0.0174	(-0.0017)	(-0.0006)	
SIMULATOR VAPOR (33.9°C)		0.017	08:39
X[1] = 0.0178	(-0.0018)	(-0.0005)	
SIMULATOR VAPOR (33.8°C)		0.017	08:40
X[1] = 0.0173	(-0.0020)	(-0.0002)	
SIMULATOR VAPOR (33.8°C)		0.017	08:41
X[1] = 0.0177	(-0.0015)	(-0.0006)	
SIMULATOR VAPOR (33.8°C)		0.017	08:42
X[1] = 0.0171	(-0.0036)	(-0.0008)	
SIMULATOR VAPOR (33.9°C)		0.017	08:43
X[1] = 0.0173	(-0.0015)	(-0.0001)	
SIMULATOR VAPOR (33.8°C)		0.017	08:44
X[1] = 0.0176	(-0.0021)	(0.0001)	
BLANK TEST		0.000	08:45

Average = 0.0170
Std Dev = 0.0000



11/07/2007 11:36

4-51

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

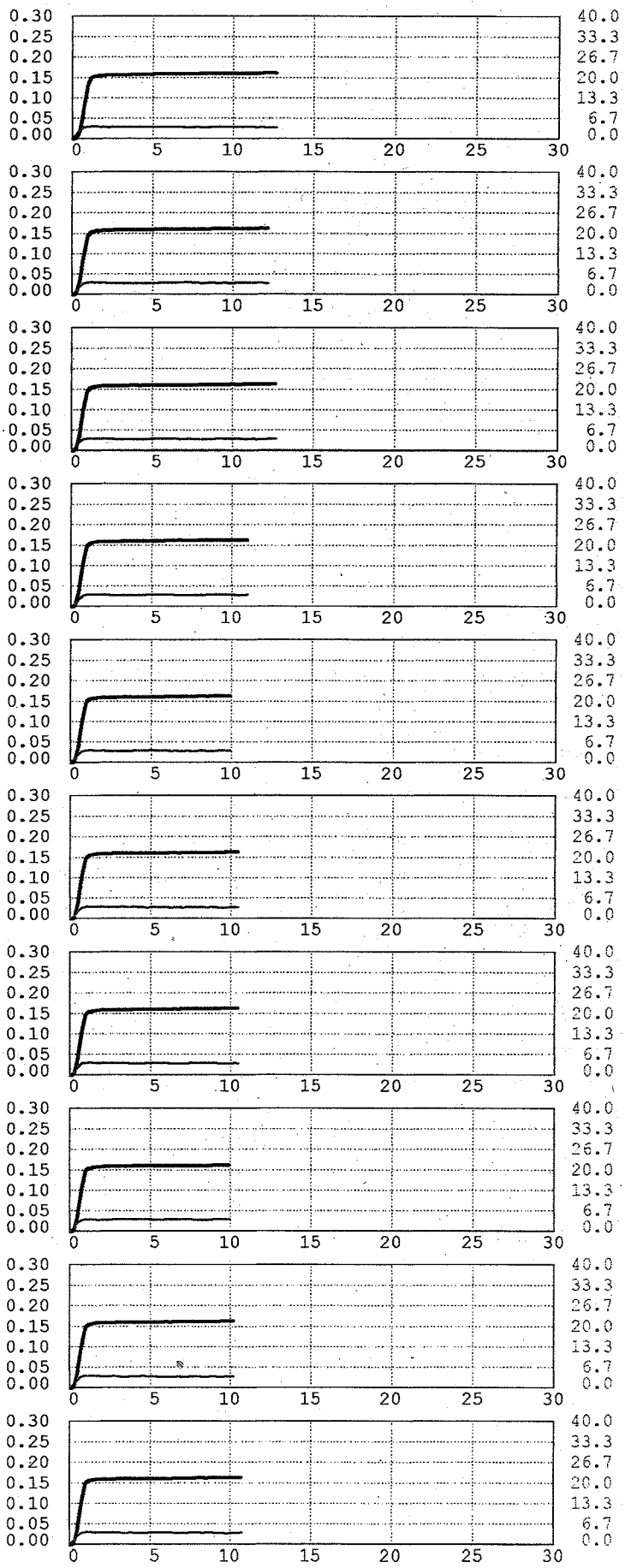
Date: 11/07/2007
Time: 08:55:59

SUPERVISOR NAME: S E H

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST		0.000	08:56
INTERNAL STANDARD		PASSED	08:57
Xq = 0.1381 (1.158)			
SIMULATOR VAPOR	(34.1°C)	0.157	08:57
X[1] = 0.1577	(0.0018)	(-0.0001)	
SIMULATOR VAPOR	(34.1°C)	0.158	08:58
X[1] = 0.1589	(0.0022)	(-0.0001)	
SIMULATOR VAPOR	(34.1°C)	0.159	08:59
X[1] = 0.1591	(0.0018)	(-0.0003)	
SIMULATOR VAPOR	(34.1°C)	0.159	09:00
X[1] = 0.1598	(0.0027)	(-0.0010)	
SIMULATOR VAPOR	(34.0°C)	0.158	09:01
X[1] = 0.1589	(0.0009)	(-0.0002)	
SIMULATOR VAPOR	(34.1°C)	0.158	09:02
X[1] = 0.1588	(0.0026)	(-0.0006)	
SIMULATOR VAPOR	(34.1°C)	0.159	09:03
X[1] = 0.1592	(0.0020)	(-0.0004)	
SIMULATOR VAPOR	(34.1°C)	0.158	09:04
X[1] = 0.1580	(0.0013)	(-0.0005)	
SIMULATOR VAPOR	(34.0°C)	0.158	09:05
X[1] = 0.1584	(0.0017)	(0.0002)	
SIMULATOR VAPOR	(34.0°C)	0.159	09:06
X[1] = 0.1594	(0.0022)	(0.0002)	
BLANK TEST		0.000	09:07

Average = 0.1583
Std Dev = 0.0007



11/07/2007 11:37

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

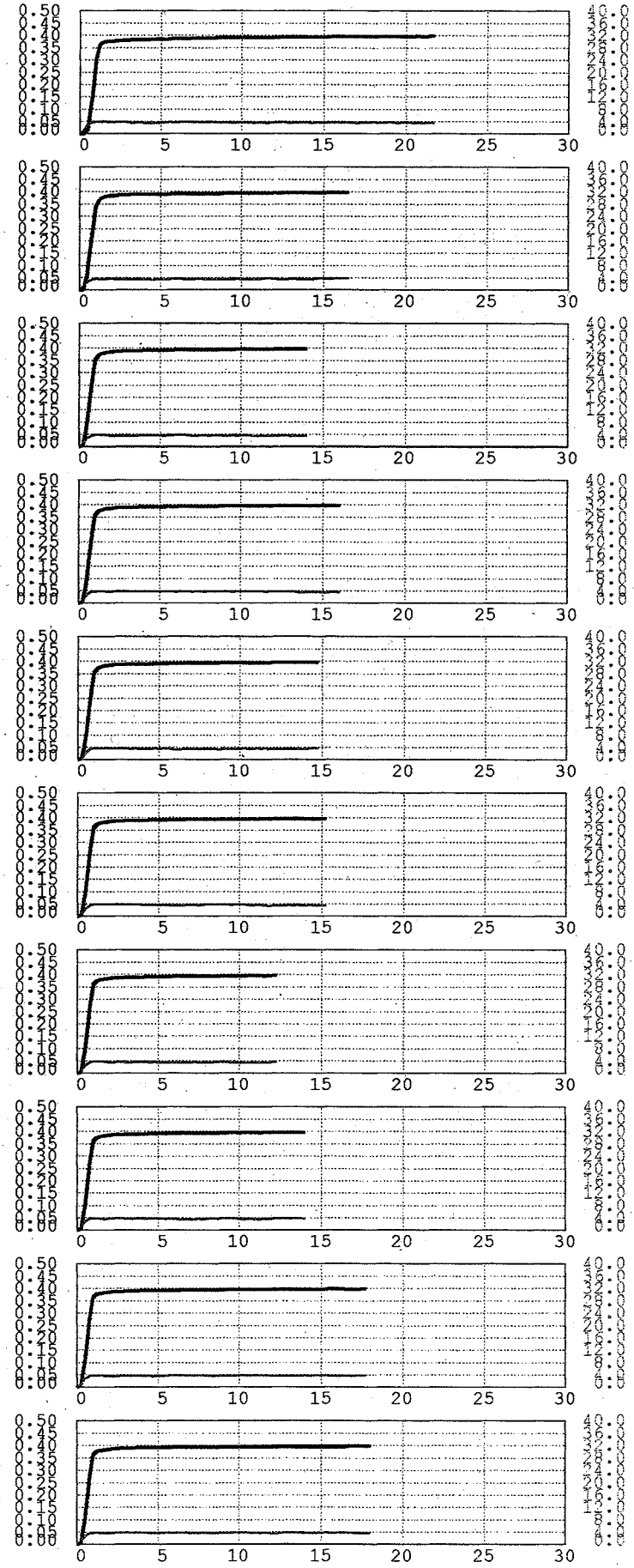
Date: 11/07/2007
Time: 09:57:34

SUPERVISOR NAME: S E H

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST		0.000	09:58
INTERNAL STANDARD		PASSED	09:58
Xq = 0.1382 (1.09%)			
SIMULATOR VAPOR (33.9°C)		0.387	09:59
X[1] = 0.3874	(0.0100)	(0.0012)	
SIMULATOR VAPOR (33.9°C)		0.389	10:00
X[1] = 0.3891	(0.0105)	(0.0009)	
SIMULATOR VAPOR (33.9°C)		0.387	10:01
X[1] = 0.3870	(0.0095)	(0.0003)	
SIMULATOR VAPOR (33.9°C)		0.389	10:02
X[1] = 0.3892	(0.0101)	(0.0007)	
SIMULATOR VAPOR (33.9°C)		0.387	10:03
X[1] = 0.3876	(0.0096)	(0.0015)	
SIMULATOR VAPOR (33.9°C)		0.387	10:04
X[1] = 0.3875	(0.0082)	(0.0007)	
SIMULATOR VAPOR (34.0°C)		0.386	10:05
X[1] = 0.3868	(0.0104)	(0.0006)	
SIMULATOR VAPOR (34.0°C)		0.389	10:06
X[1] = 0.3893	(0.0083)	(0.0009)	
SIMULATOR VAPOR (34.0°C)		0.390	10:07
X[1] = 0.3902	(0.0100)	(0.0009)	
SIMULATOR VAPOR (33.9°C)		0.389	10:08
X[1] = 0.3896	(0.0089)	(0.0022)	
BLANK TEST		0.000	10:09

Average = 0.3880
Std Dev = 0.0013



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

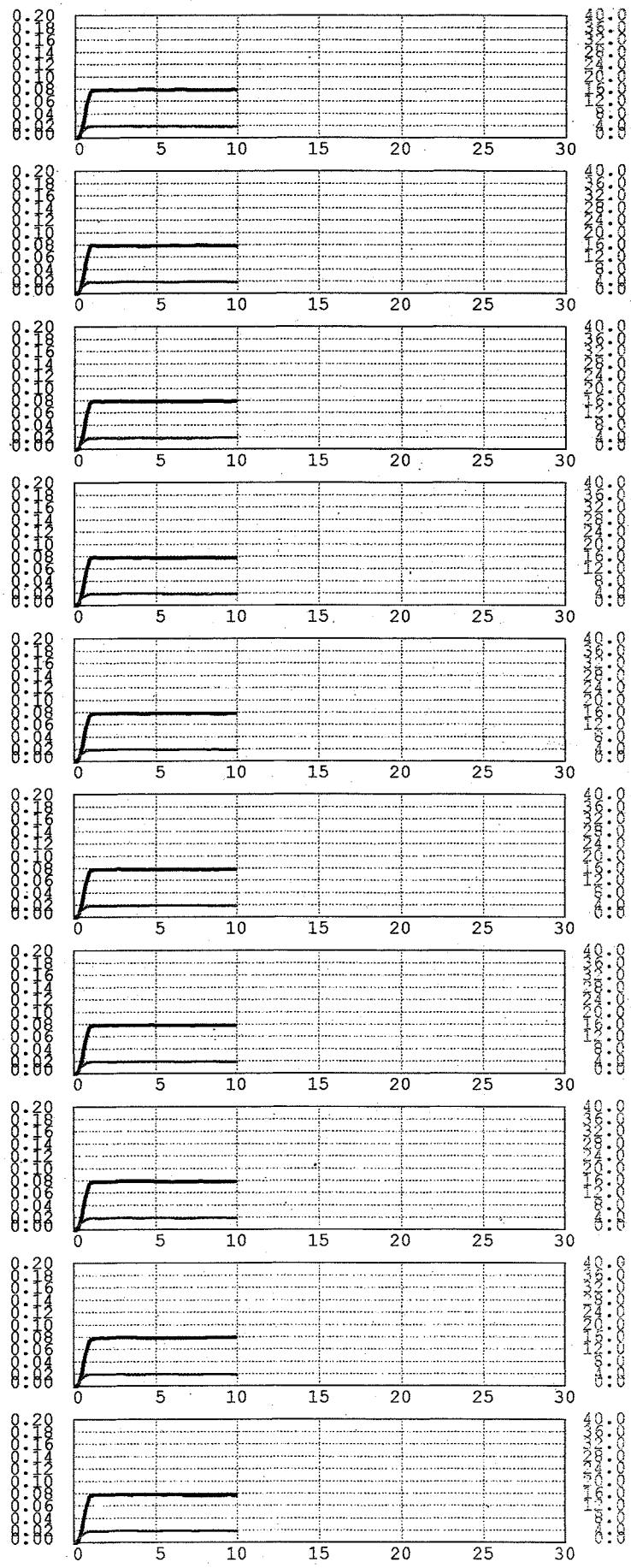
Date: 11/07/2007
Time: 10:19:55

SUPERVISOR NAME: S E H

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST		0.000	10:20
INTERNAL STANDARD		PASSED	10:20
Xq = 0.1385 (0.83%)			
SIMULATOR VAPOR	(33.9°C)	0.078	10:21
X[1] = 0.0780	(-0.0003)	(-0.0008)	
SIMULATOR VAPOR	(34.1°C)	0.077	10:22
X[1] = 0.0773	(-0.0013)	(0.0006)	
SIMULATOR VAPOR	(34.0°C)	0.078	10:23
X[1] = 0.0785	(0.0000)	(0.0003)	
SIMULATOR VAPOR	(34.0°C)	0.077	10:24
X[1] = 0.0776	(-0.0006)	(0.0003)	
SIMULATOR VAPOR	(34.0°C)	0.077	10:25
X[1] = 0.0777	(-0.0015)	(-0.0005)	
SIMULATOR VAPOR	(34.0°C)	0.078	10:26
X[1] = 0.0784	(0.0004)	(-0.0004)	
SIMULATOR VAPOR	(34.0°C)	0.077	10:27
X[1] = 0.0771	(-0.0008)	(-0.0013)	
SIMULATOR VAPOR	(34.0°C)	0.078	10:28
X[1] = 0.0781	(-0.0004)	(0.0003)	
SIMULATOR VAPOR	(34.0°C)	0.078	10:29
X[1] = 0.0789	(-0.0013)	(0.0000)	
SIMULATOR VAPOR	(34.0°C)	0.077	10:29
X[1] = 0.0779	(-0.0006)	(-0.0002)	
BLANK TEST		0.000	10:30

Average = 0.0775
Std Dev = 0.0005



11/07/2007 11:39

Section 5: Interference

Operator	Date	Concentration	Lot Number	DMT Result	Apparent EtOH	N = 10
ALB	11/27/07	0.01 Acetone in water	09-20-070A1	INTERFERENCE	0.004	
RJD	12/07/07	0.01 Acetone in water	09-20-070A1	8 out of 10	0.007	
DMR	01/02/08	0.01 Acetone in water	09-20-070A1	8 out of 10	0.007	
ALB	11/27/07	0.02 Acetone in water	09-20-070A2	INTERFERENCE	0.006	
SH	11/28/07	0.02 Acetone in water	09-20-070A2	INTERFERENCE	0.006	
RJD	12/06/07	0.02 Acetone in water	09-20-070A2	INTERFERENCE	0.007	
SH	11/28/08	.01 Acetone in .08 EtOH	07-09-080A1	4 OUT OF 10	0.079	
RJD	12/07/07	.01 Acetone in .08 EtOH	07-09-080A1	1 out of 10	0.082	
DMR	01/02/08	.01 Acetone in .08 EtOH	07-09-080A1	0 out of 10	0.078	
ALB	11/27/07	.01 Acetone in .04 EtOH	07-14-040A1	9 OUT OF 10	0.044	
ALB	11/27/07	.01 Acetone in .04 EtOH	07-14-040A1	8 out of 10	0.045	
ALB	03/05/08	.02Acetone in .08 EtOH	07-09-080A2	INTERFERENCE		
SH	03/05/08	.02Acetone in .08 EtOH	07-09-080A2	INTERFERENCE		
ALB	03/05/08	.02 Acetone in .04 EtOH	07-14-040B	INTERFERENCE		
HXB	03/05/08	.02 Acetone in .04 EtOH	07-14-040B	INTERFERENCE		
ALB	03/05/08	.04 MeOH in water	08-12-040M	INTERFERENCE		
DMR	03/05/08	.04 MeOH in water	08-12-040M	INTERFERENCE		
ALB	03/07/08	.04 MeOH in .08 EtOH	07-09-080M4	INTERFERENCE		
SH	03/07/08	.04 MeOH in .08 EtOH	07-09-080M4	INTERFERENCE		
ALB	03/06/08	.04 IPA in water	08-13-040I	INTERFERENCE		
DMR	03/06/08	.04 IPA in water	08-13-040I	INTERFERENCE		
RJD	03/06/08	.04 IPA in .08 EtOH	07-09-080I4	INTERFERENCE		
ALB	03/06/08	.04 IPA in .08 EtOH	07-09-080I4	INTERFERENCE		

DIAGNOSTIC RESULT

DataMaster DMT: 102606
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 11/27/2007
Time: 16:19

VERMONT
DEPARTMENT OF HEALTH

VERSIONS
DMT 1.26
PIC 2.03
Questions 1.0
Reports 1.3

TEMPERATURES
Sample Chamber = 48.7 C
Breath Tube = 46.4 C
Simulator Hose = 0.0 C
Digital Sim = 34.0 C

SETTINGS
Lamp Voltage = 2.34 V
Cooler Voltage = 1.98 V
Bias Voltage = 121.1 V
Chopper Freq = 545.9 Hz

PUMP INFO
Flow Rate = 4.525 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.3443	0.3449
MIN(V)	0.3419	0.3423

FILTER INFO
Filter 1 0.342 Zero = true
Filter 2 0.695 Zero = true
Filter 3 1.506 Zero = true

INTERNAL STANDARD
Xq = 0.1386 0.77%

ACCURACY AND PRECISION TEST

STATE OF VERMONT

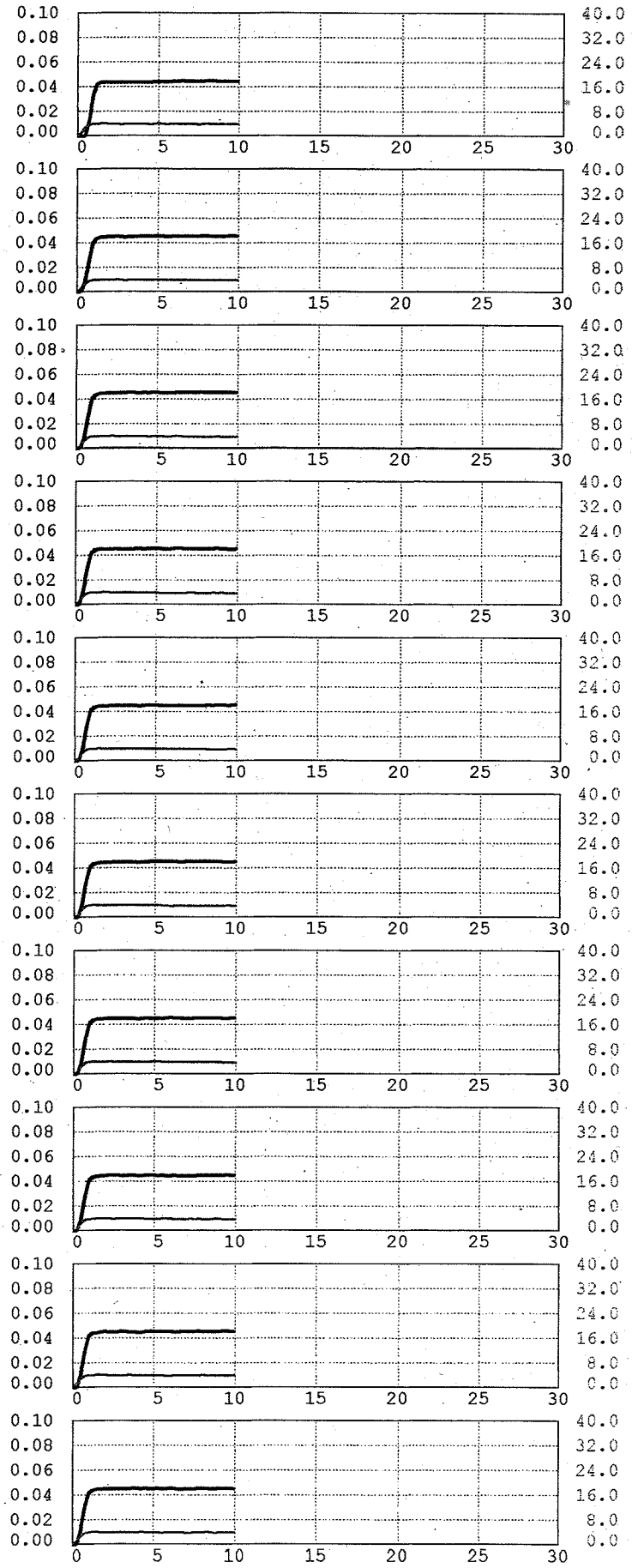
DataMaster DMT: 102606

Date: 11/27/2007
Time: 15:29:49

SUPERVISOR NAME: ALB .01ACETONE .04ETOH

SOLUTION LOT #: 07-14-040 A1
SOLUTION CONCENTRATION: 0.010

BLANK TEST		0.000	15:30
INTERNAL STANDARD		PASSED	15:30
Xq = 0.1376 (1.47%)			
SIMULATOR VAPOR		INTERFERENCE	15:31
X[1] = 0.0440	(-0.0065)	(0.0005)	
SIMULATOR VAPOR	(34.0°C)	0.045	15:32
X[1] = 0.0452	(-0.0042)	(0.0002)	
SIMULATOR VAPOR		INTERFERENCE	15:33
X[1] = 0.0448	(-0.0058)	(-0.0001)	
SIMULATOR VAPOR		INTERFERENCE	15:34
X[1] = 0.0450	(-0.0051)	(-0.0001)	
SIMULATOR VAPOR		INTERFERENCE	15:35
X[1] = 0.0447	(-0.0053)	(-0.0009)	
SIMULATOR VAPOR		INTERFERENCE	15:36
X[1] = 0.0447	(-0.0069)	(-0.0005)	
SIMULATOR VAPOR		INTERFERENCE	15:36
X[1] = 0.0444	(-0.0058)	(-0.0003)	
SIMULATOR VAPOR		INTERFERENCE	15:37
X[1] = 0.0442	(-0.0065)	(-0.0017)	
SIMULATOR VAPOR		INTERFERENCE	15:38
X[1] = 0.0447	(-0.0056)	(-0.0005)	
SIMULATOR VAPOR		INTERFERENCE	15:39
X[1] = 0.0447	(-0.0062)	(-0.0003)	
BLANK TEST		0.000	15:40



ACCURACY AND PRECISION TEST

STATE OF VERMONT

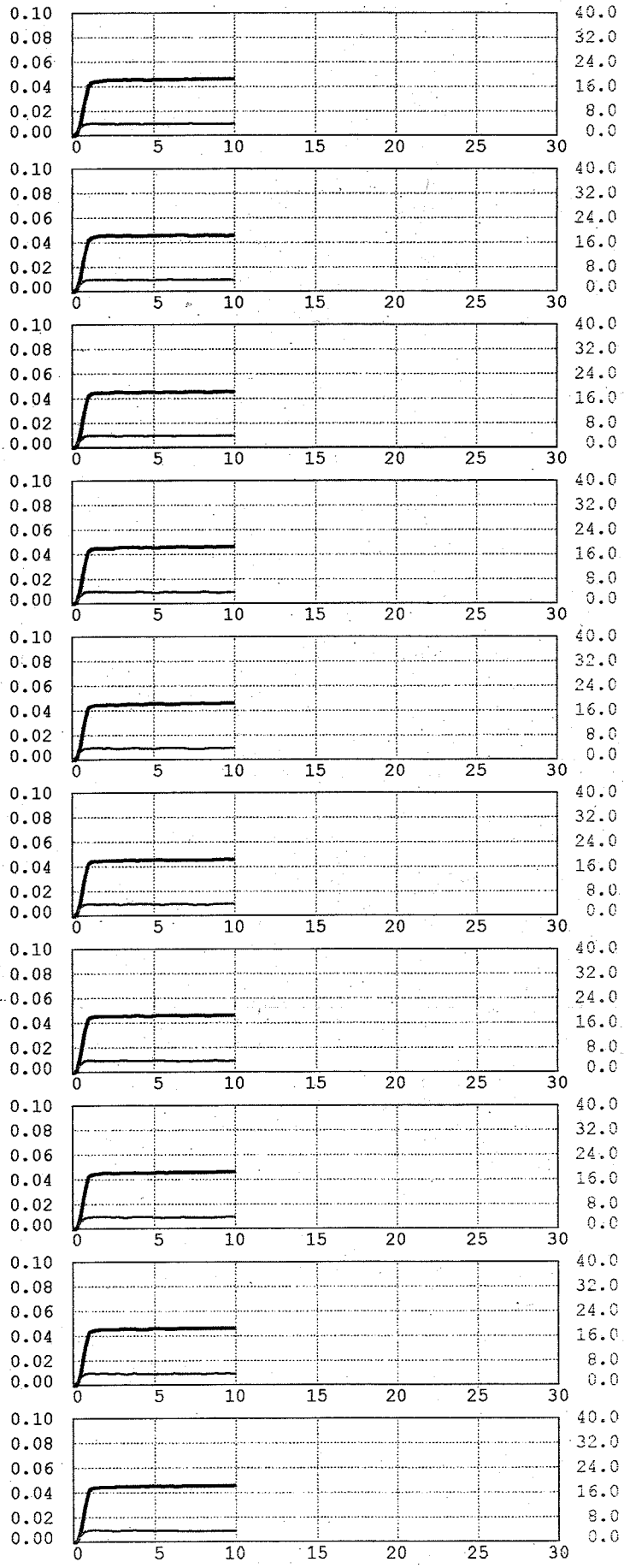
DataMaster DMT: 102606

Date: 11/27/2007
Time: 15:41:54

SUPERVISOR NAME: ALB .01ACETONE IN .04ETOH

SOLUTION LOT #: 07-14-040A1
SOLUTION CONCENTRATION: 0.010

BLANK TEST		0.000	15:42
INTERNAL STANDARD		PASSED	15:42
Xq = 0.1376 (1.47%)			
SIMULATOR VAPOR		INTERFERENCE	15:43
X[1] = 0.0450	(-0.0056)	(0.0005)	
SIMULATOR VAPOR		INTERFERENCE	15:44
X[1] = 0.0449	(-0.0055)	(0.0000)	
SIMULATOR VAPOR		INTERFERENCE	15:45
X[1] = 0.0444	(-0.0061)	(-0.0002)	
SIMULATOR VAPOR	(34.0°C)	0.045	15:46
X[1] = 0.0455	(-0.0050)	(0.0000)	
SIMULATOR VAPOR		INTERFERENCE	15:47
X[1] = 0.0452	(-0.0067)	(-0.0004)	
SIMULATOR VAPOR		INTERFERENCE	15:48
X[1] = 0.0448	(-0.0056)	(-0.0003)	
SIMULATOR VAPOR		INTERFERENCE	15:49
X[1] = 0.0457	(-0.0057)	(0.0001)	
SIMULATOR VAPOR	(34.1°C)	0.045	15:50
X[1] = 0.0457	(-0.0049)	(0.0000)	
SIMULATOR VAPOR		INTERFERENCE	15:51
X[1] = 0.0455	(-0.0051)	(0.0000)	
SIMULATOR VAPOR		INTERFERENCE	15:52
X[1] = 0.0449	(-0.0064)	(-0.0012)	
BLANK TEST		0.000	15:52



11/27/2007 15:52

5-5

ACCURACY AND PRECISION TEST

STATE OF VERMONT

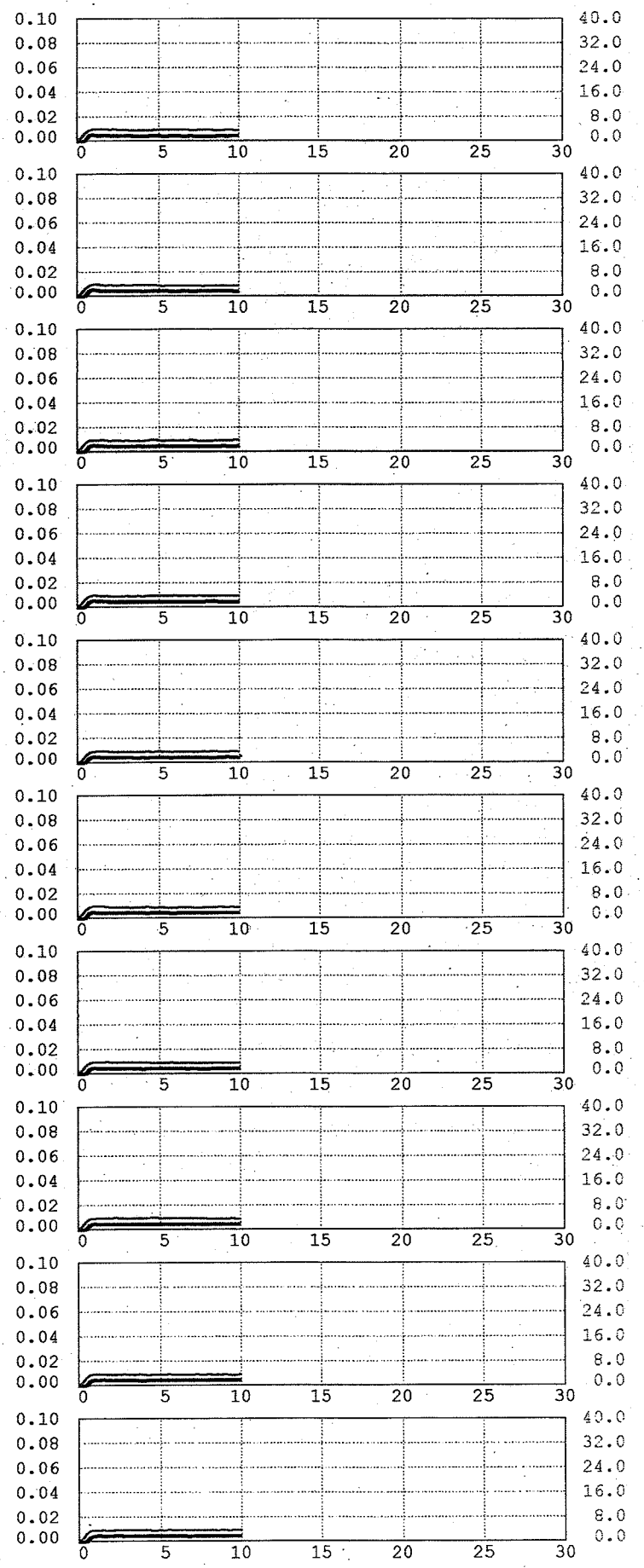
DataMaster DMT: 102606

Date: 11/27/2007
Time: 15:55:07

SUPERVISOR NAME: ALB .01 ACETONE IN H2O

SOLUTION LOT #: 09-20-070A1
SOLUTION CONCENTRATION: 0.010

BLANK TEST	0.000	15:56
INTERNAL STANDARD	PASSED	15:56
Xq = 0.1374 (1.66%)		
SIMULATOR VAPOR	INTERFERENCE	15:56
X[1] = 0.0045 (-0.0067) (0.0003)		
SIMULATOR VAPOR	INTERFERENCE	15:57
X[1] = 0.0045 (-0.0056) (-0.0002)		
SIMULATOR VAPOR	INTERFERENCE	15:58
X[1] = 0.0050 (-0.0066) (-0.0010)		
SIMULATOR VAPOR	INTERFERENCE	15:59
X[1] = 0.0047 (-0.0058) (0.0000)		
SIMULATOR VAPOR	INTERFERENCE	16:00
X[1] = 0.0048 (-0.0072) (-0.0002)		
SIMULATOR VAPOR	INTERFERENCE	16:01
X[1] = 0.0049 (-0.0061) (-0.0003)		
SIMULATOR VAPOR	INTERFERENCE	16:02
X[1] = 0.0046 (-0.0065) (-0.0009)		
SIMULATOR VAPOR	INTERFERENCE	16:03
X[1] = 0.0050 (-0.0066) (0.0001)		
SIMULATOR VAPOR	INTERFERENCE	16:04
X[1] = 0.0048 (-0.0059) (-0.0002)		
SIMULATOR VAPOR	INTERFERENCE	16:05
X[1] = 0.0049 (-0.0067) (0.0000)		
BLANK TEST	0.000	16:05



11/27/2007 16:06

5-6

ACCURACY AND PRECISION TEST

STATE OF VERMONT

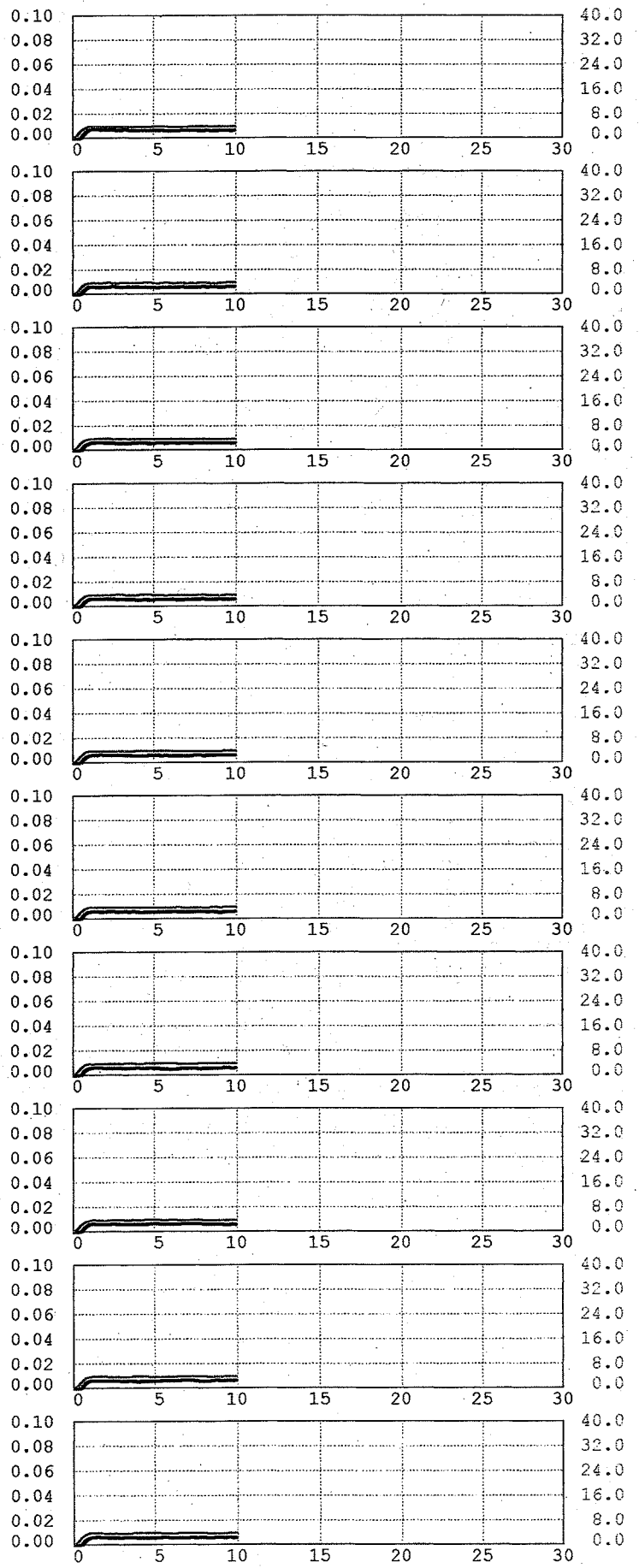
DataMaster DMT: 102606

Date: 11/27/2007
Time: 16:07:33

SUPERVISOR NAME: ALB 02 ACETONE IN H2O

SOLUTION LOT #: 09-20-070A2
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	16:08
INTERNAL STANDARD	PASSED	16:08
Xq = 0.1382 (1.02%)		
SIMULATOR VAPOR	INTERFERENCE	16:08
X[1] = 0.0067 (-0.0085) (0.0004)		
SIMULATOR VAPOR	INTERFERENCE	16:09
X[1] = 0.0065 (-0.0102) (-0.0004)		
SIMULATOR VAPOR	INTERFERENCE	16:10
X[1] = 0.0063 (-0.0090) (-0.0004)		
SIMULATOR VAPOR	INTERFERENCE	16:11
X[1] = 0.0061 (-0.0102) (0.0000)		
SIMULATOR VAPOR	INTERFERENCE	16:12
X[1] = 0.0065 (-0.0092) (0.0004)		
SIMULATOR VAPOR	INTERFERENCE	16:13
X[1] = 0.0062 (-0.0092) (0.0006)		
SIMULATOR VAPOR	INTERFERENCE	16:14
X[1] = 0.0065 (-0.0098) (0.0007)		
SIMULATOR VAPOR	INTERFERENCE	16:15
X[1] = 0.0065 (-0.0082) (0.0003)		
SIMULATOR VAPOR	INTERFERENCE	16:16
X[1] = 0.0063 (-0.0091) (0.0000)		
SIMULATOR VAPOR	INTERFERENCE	16:17
X[1] = 0.0058 (-0.0089) (-0.0003)		
BLANK TEST	0.000	16:18



11/27/2007 16:18

5-7

DIAGNOSTIC RESULT

DataMaster DMT: 102606
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 11/28/2007
Time: 09:08

VERMONT
DEPARTMENT OF HEALTH

VERSIONS
DMT 1.26
PIC 2.03
Questions 1.0
Reports 1.3

TEMPERATURES
Sample Chamber = 48.7 C
Breath Tube = 44.2 C
Simulator Hose = 0.0 C
Digital Sim = 34.0 C

SETTINGS
Lamp Voltage = 2.34 V
Cooler Voltage = 1.98 V
Bias Voltage = 121.0 V
Chopper Freq = 543.5 Hz

PUMP INFO
Flow Rate = 4.639 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.3179	0.3195
MIN(V)	0.3158	0.3175

FILTER INFO
Filter 1 0.317 Zero = true
Filter 2 0.667 Zero = true
Filter 3 1.462 Zero = true

INTERNAL STANDARD
Xq = 0.1372 1.79%

ACCURACY AND PRECISION TEST

STATE OF VERMONT

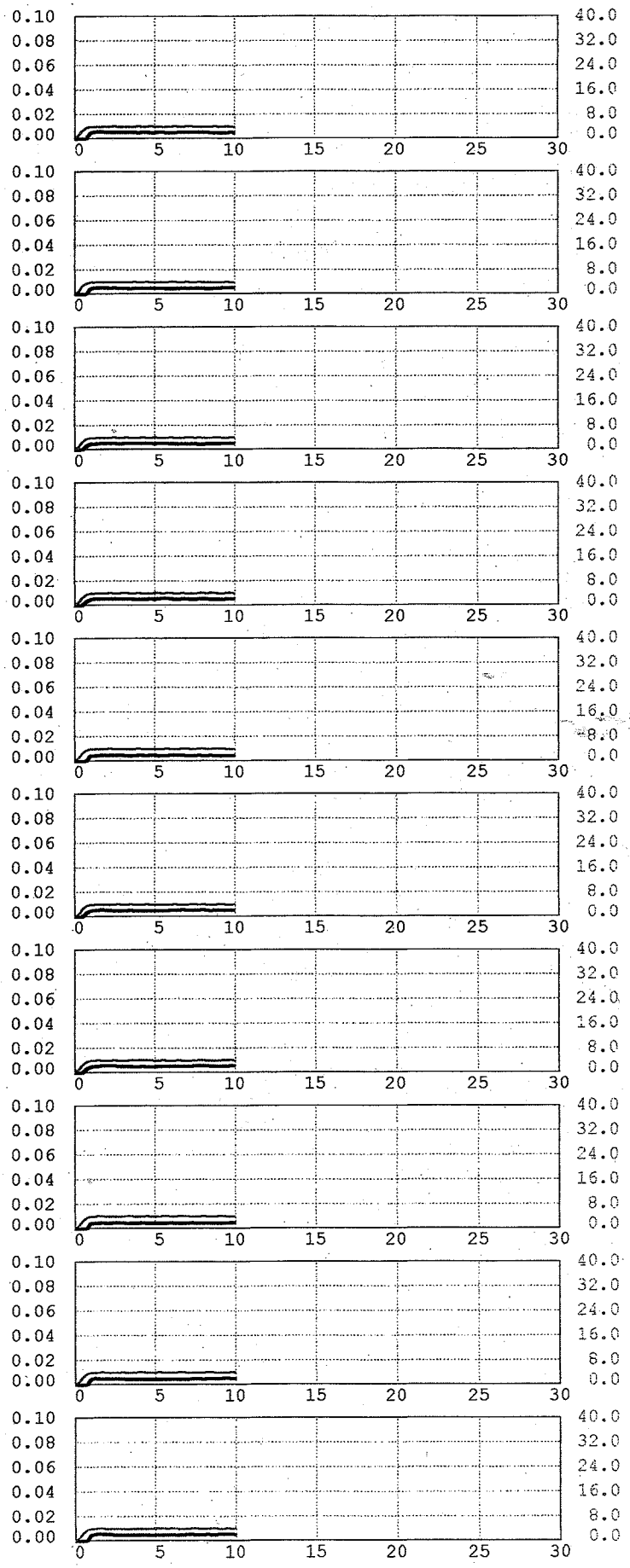
DataMaster DMT: 102606

Date: 11/28/2007
Time: 09:14:22

SUPERVISOR NAME: SEH .02 ACETONE IN H2O

SOLUTION LOT #: 09-20-070
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	09:15
INTERNAL STANDARD	PASSED	09:15
Xq = 0.1373 (1.73%)		
SIMULATOR VAPOR	INTERFERENCE	09:15
X[1] = 0.0060 (-0.0086) (0.0019)		
SIMULATOR VAPOR	INTERFERENCE	09:16
X[1] = 0.0061 (-0.0087) (0.0009)		
SIMULATOR VAPOR	INTERFERENCE	09:17
X[1] = 0.0062 (-0.0104) (0.0001)		
SIMULATOR VAPOR	INTERFERENCE	09:18
X[1] = 0.0059 (-0.0085) (0.0001)		
SIMULATOR VAPOR	INTERFERENCE	09:19
X[1] = 0.0052 (-0.0092) (-0.0001)		
SIMULATOR VAPOR	INTERFERENCE	09:20
X[1] = 0.0061 (-0.0087) (-0.0005)		
SIMULATOR VAPOR	INTERFERENCE	09:21
X[1] = 0.0063 (-0.0079) (-0.0003)		
SIMULATOR VAPOR	INTERFERENCE	09:22
X[1] = 0.0057 (-0.0094) (0.0000)		
SIMULATOR VAPOR	INTERFERENCE	09:23
X[1] = 0.0059 (-0.0097) (0.0004)		
SIMULATOR VAPOR	INTERFERENCE	09:24
X[1] = 0.0061 (-0.0090) (0.0002)		
BLANK TEST	0.000	09:25



ACCURACY AND PRECISION TEST

STATE OF VERMONT

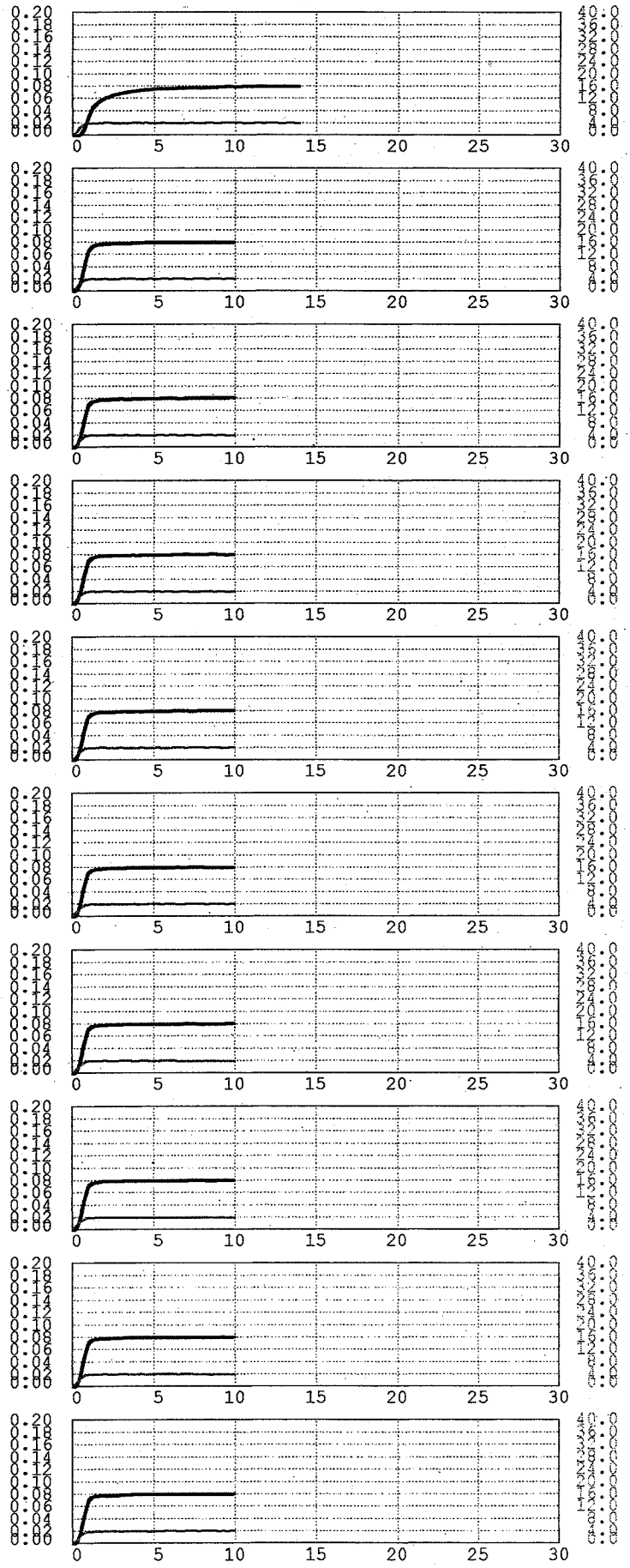
DataMaster DMT: 102606

Date: 11/28/2007
Time: 10:15:09

SUPERVISOR NAME: SEH .01 ACETONE IN .08ETOH

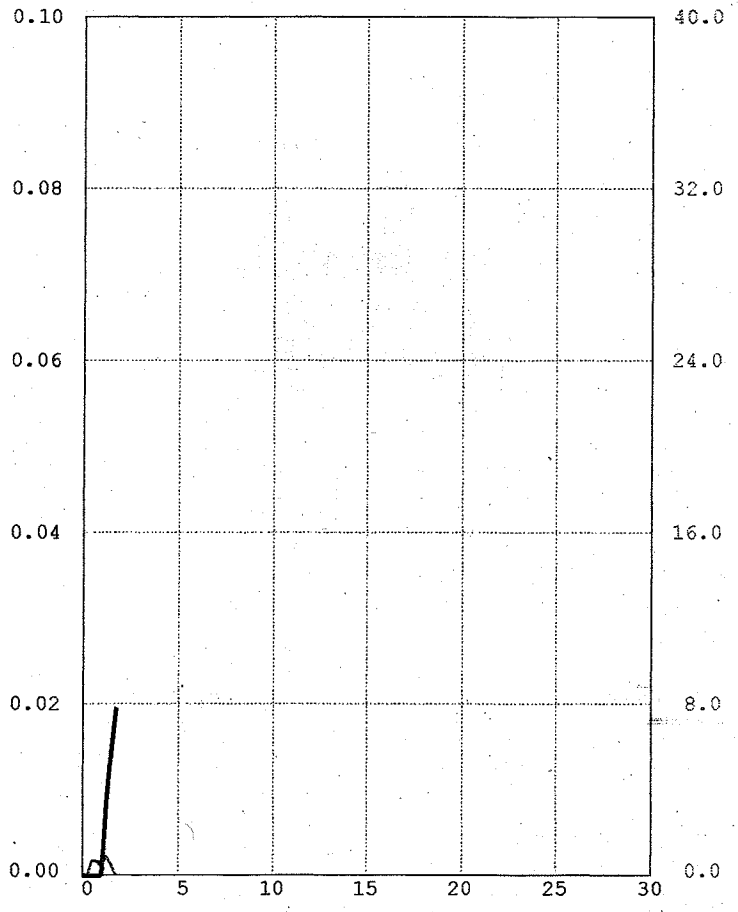
SOLUTION LOT #: 07-09-080A1
SOLUTION CONCENTRATION: 0.821

BLANK TEST		0.000	10:16
INTERNAL STANDARD		PASSED	10:16
Xq = 0.1378 (1.34%)			
SIMULATOR VAPOR	(33.9°C)	0.079	10:16
X[1] = 0.0796	(-0.0043)	(0.0005)	
SIMULATOR VAPOR	(33.8°C)	0.079	10:17
X[1] = 0.0797	(-0.0043)	(-0.0010)	
SIMULATOR VAPOR		INTERFERENCE	10:18
X[1] = 0.0807	(-0.0055)	(-0.0014)	
SIMULATOR VAPOR	(33.8°C)	0.080	10:19
X[1] = 0.0806	(-0.0041)	(-0.0008)	
SIMULATOR VAPOR	(33.9°C)	0.080	10:20
X[1] = 0.0807	(-0.0049)	(-0.0007)	
SIMULATOR VAPOR		INTERFERENCE	10:21
X[1] = 0.0796	(-0.0051)	(-0.0007)	
SIMULATOR VAPOR		INTERFERENCE	10:22
X[1] = 0.0800	(-0.0053)	(-0.0011)	
SIMULATOR VAPOR		INTERFERENCE	10:23
X[1] = 0.0804	(-0.0060)	(-0.0010)	
SIMULATOR VAPOR	(33.9°C)	0.079	10:24
X[1] = 0.0798	(-0.0046)	(-0.0012)	
SIMULATOR VAPOR	(33.9°C)	0.079	10:25
X[1] = 0.0799	(-0.0047)	(-0.0008)	
BLANK TEST		0.000	10:26



11/28/2007 10:26

5-10



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

Date: 12/03/2007
Time: 13:53:02

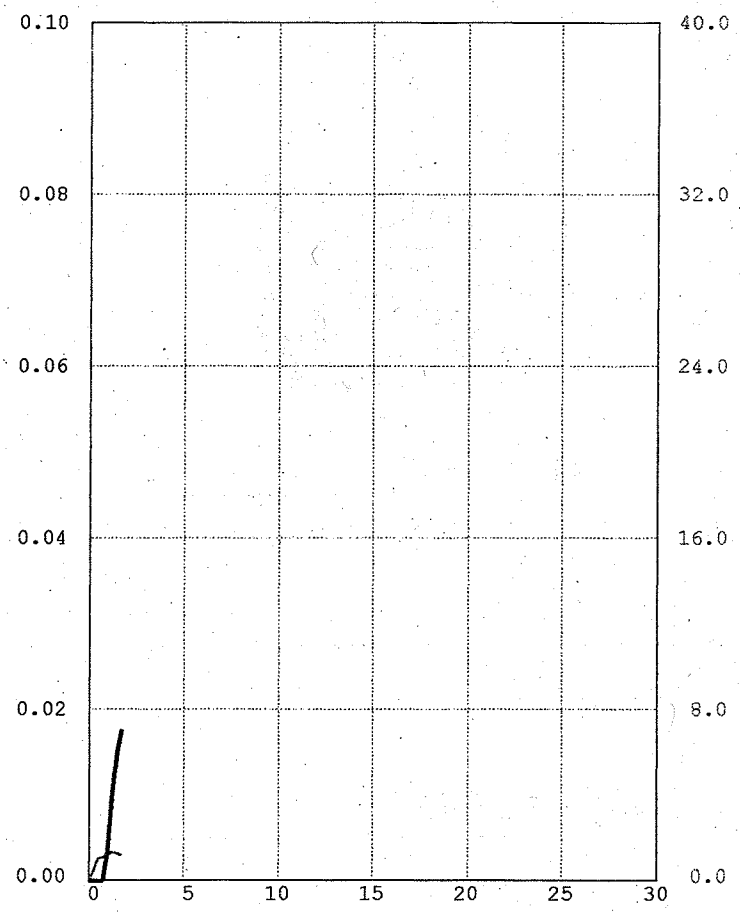
SUPERVISOR NAME: ALB TOLUENE TEST

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	13:53
INTERNAL STANDARD	PASSED	13:54
Xq = 0.1373 (1.73%)		

PUMP ERROR

12/03/2007 13:56



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

Date: 12/03/2007
Time: 13:54:36

SUPERVISOR NAME: ALB TOLUENE TEST

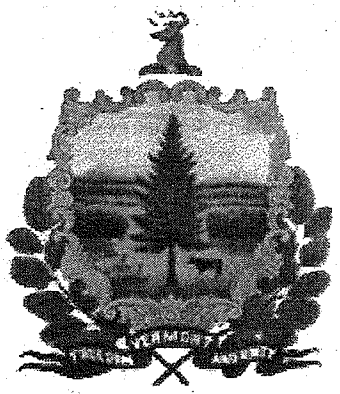
SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	13:55
INTERNAL STANDARD	PASSED	13:55
Xq = 0.1375 (1.53%)		

PUMP ERROR

12/03/2007 13:55

5-12



DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

Installation Date:

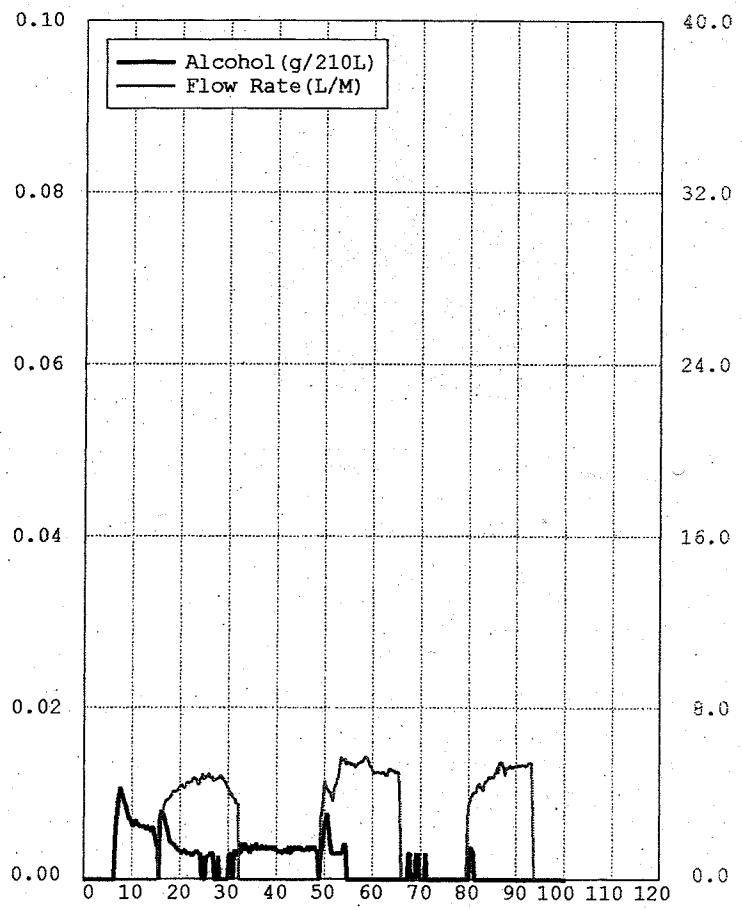
Date: 12/03/2007
Time: 13:58:53

Subject Name:

Test Operator Name: A L B
Comment: TOLUENE TEST

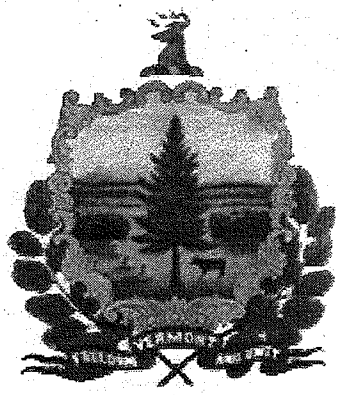
BLANK TEST	0.000	13:59
INTERNAL STANDARD	PASSED	13:59
Xq = 0.1375 (1.53%)		

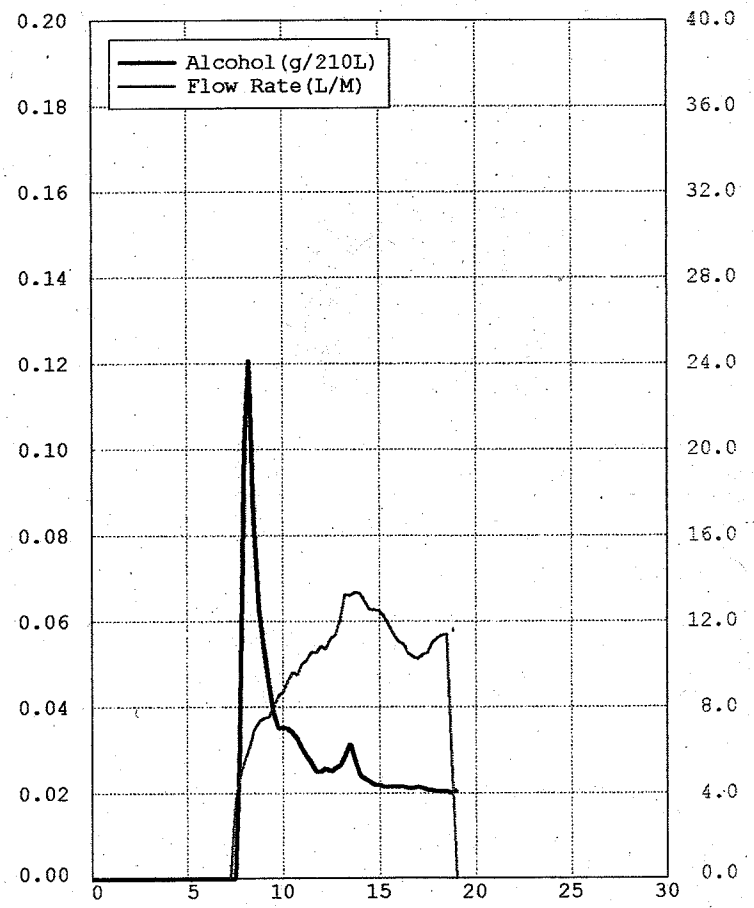
USER ABORT



12/03/2007 14:01

5-13





DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

Installation Date:

Date: 12/04/2007
Time: 13:43:31

Subject Name:

Test Operator Name: A L B
Comment: TOLUENE TEST

BLANK TEST	0.000	13:44
INTERNAL STANDARD	PASSED	13:44
SUBJECT SAMPLE (Vol=1.9L)	INVALID	13:44

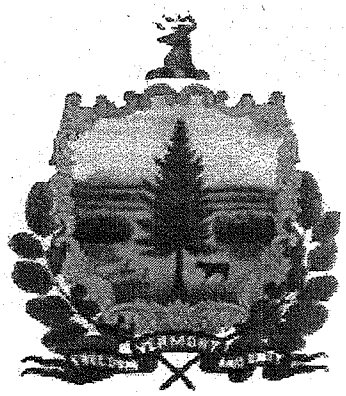
BLANK ERROR

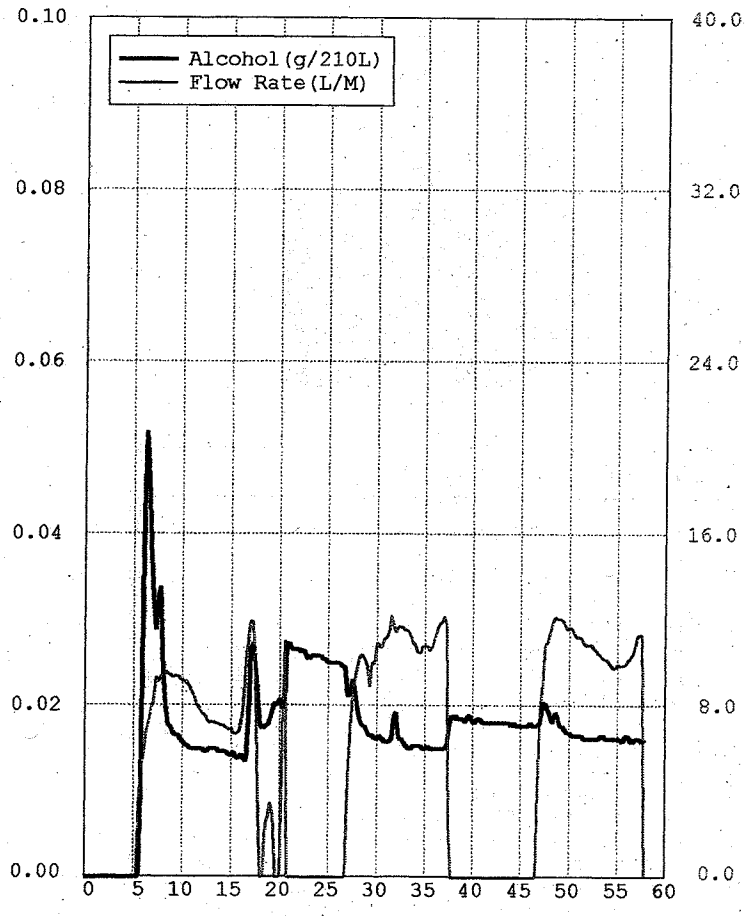
Plunger to push toluene through breath tube.
DMT had problem purging after. Only able to purge down to .009

12/4 [illegible]

12/04/2007 13:45

5-14





DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

Installation Date:

Date: 12/04/2007
Time: 13:46:20

Subject Name:

Test Operator Name: A L B
Comment: TOLUENE TEST

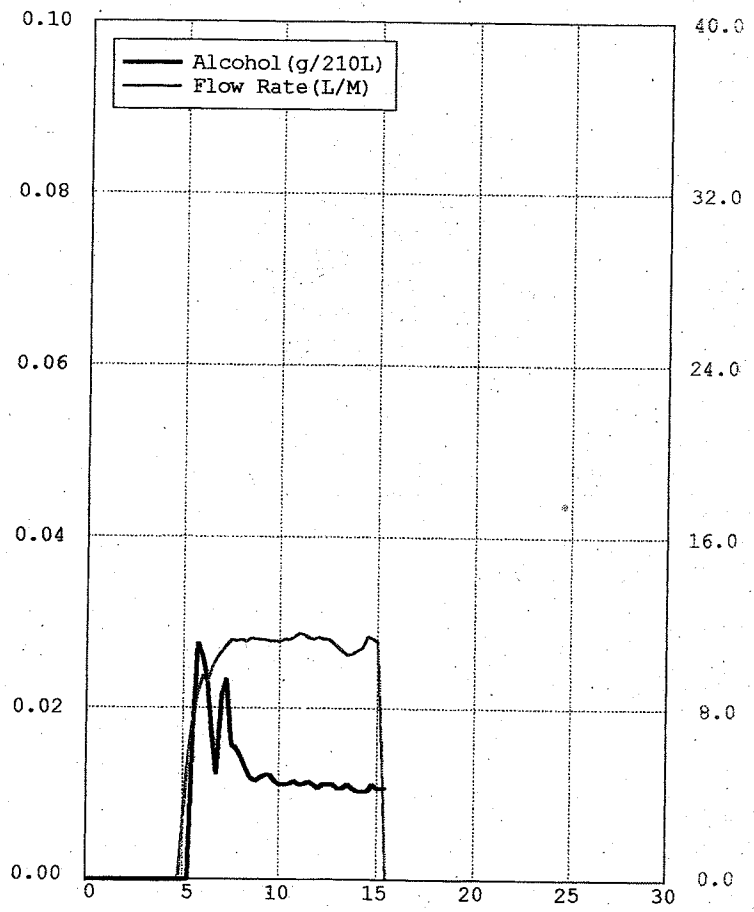
BLANK TEST	0.000	13:47
INTERNAL STANDARD	PASSED	13:47
SUBJECT SAMPLE (Vol=1.9L)	INVALID	13:48

BLANK ERROR

Unable to purge. When breath tube was blocked to check suction, aparent alcohol jumped .008 → .06/.08 range and could not purge lower.

12/4 [illegible]

12/04/2007 13:49



DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

Installation Date:

Date: 12/04/2007
Time: 13:51:42

Subject Name:

Test Operator Name: A L B
Comment: TOLUENE TEST

BLANK TEST	0.000	13:52
INTERNAL STANDARD	PASSED	13:52
Xq = 0.1379 (1.28%)		
SUBJECT SAMPLE (Vol=1.8L)	INVALID	13:53
X[1] = 0.0000 (0.0000) (0.0000)		

BLANK ERROR

Unable to purge to sufficient level

12/4/07

ALB

12/04/2007 13:53

5-16

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

Installation Date:

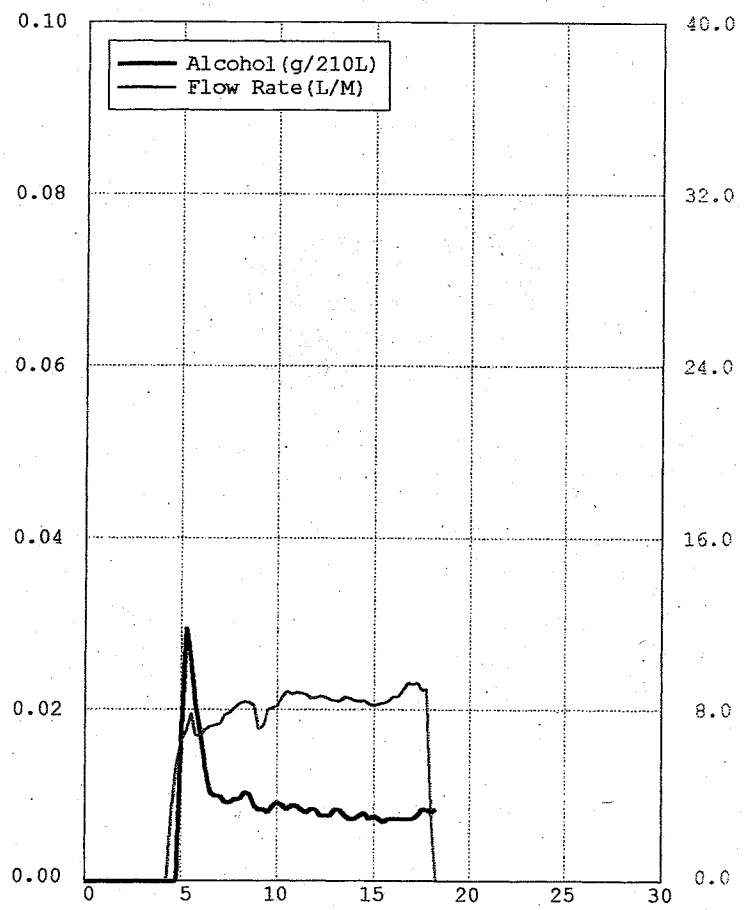
Date: 12/04/2007
Time: 13:54:24

Subject Name:

Test Operator Name: A L B
Comment: TOLUENE TEST

BLANK TEST	0.000	13:55
INTERNAL STANDARD	PASSED	13:55
Xq = 0.1371 (1.85%)		
SUBJECT SAMPLE (Vol=1.8L)	INVALID	13:55
X[1] = 0.0000 (0.0000) (0.0000)		

BLANK ERROR

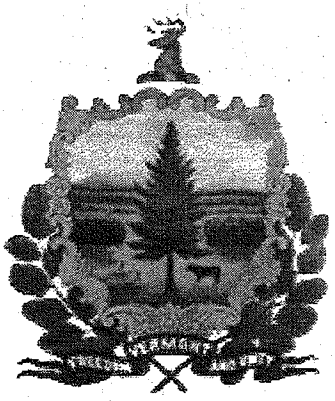


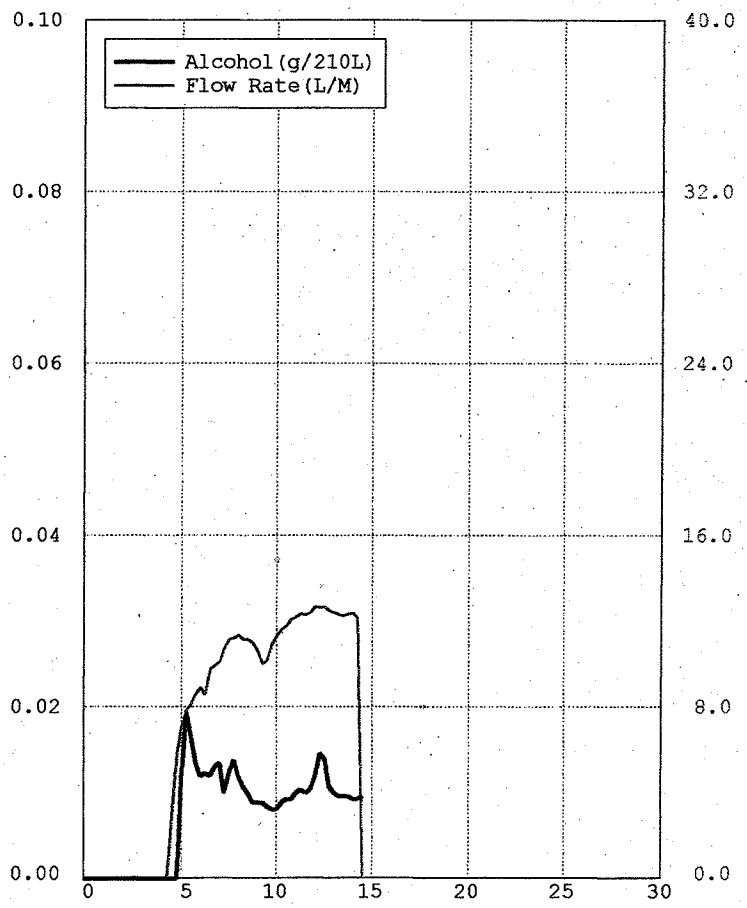
Unable to purge to Ø

12/4

AB

12/04/2007 13:56





DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

Installation Date:

Date: 12/04/2007
Time: 13:57:47

Subject Name:

Test Operator Name: A L B
Comment: TOLUENE TEST

BLANK TEST	0.000	13:58
INTERNAL STANDARD	PASSED	13:58
Xq = 0.1386 (0.77%)		
SUBJECT SAMPLE (Vol=1.7L)	INVALID	13:59
X[1] = 0.0000 (0.0000) (0.0000)		

BLANK ERROR

Spoke to Dave @ NPAS re: blank errors. Possible fiber from toluene tube contaminating sample chamber. Recommends cleaning sample chamber + retesting

12/4 AB

12/04/2007 13:59

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

Installation Date:

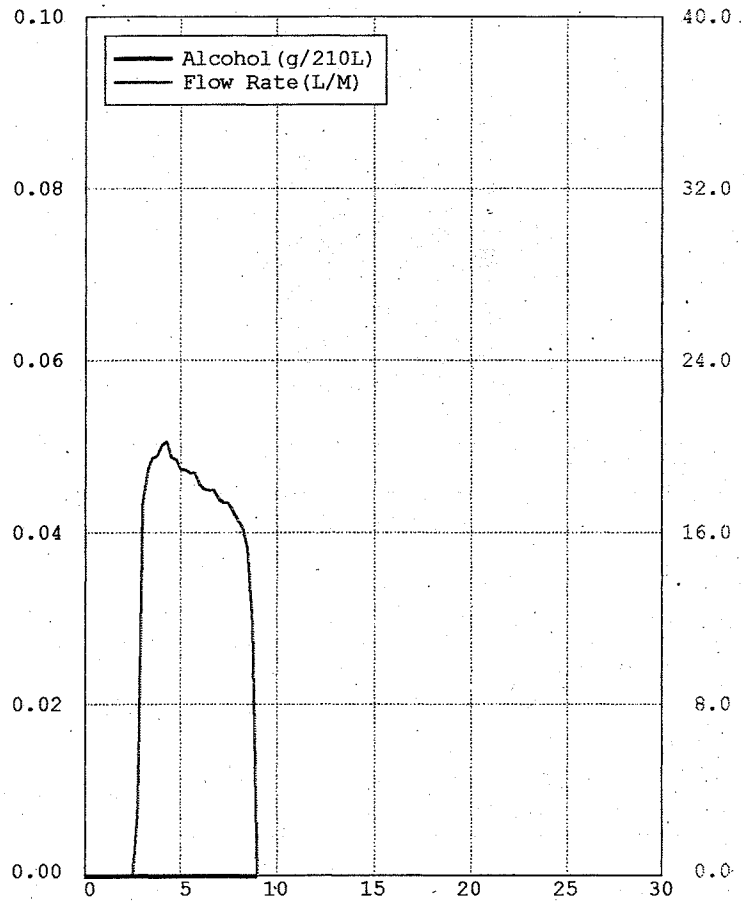
Date: 12/04/2007
Time: 14:03:53

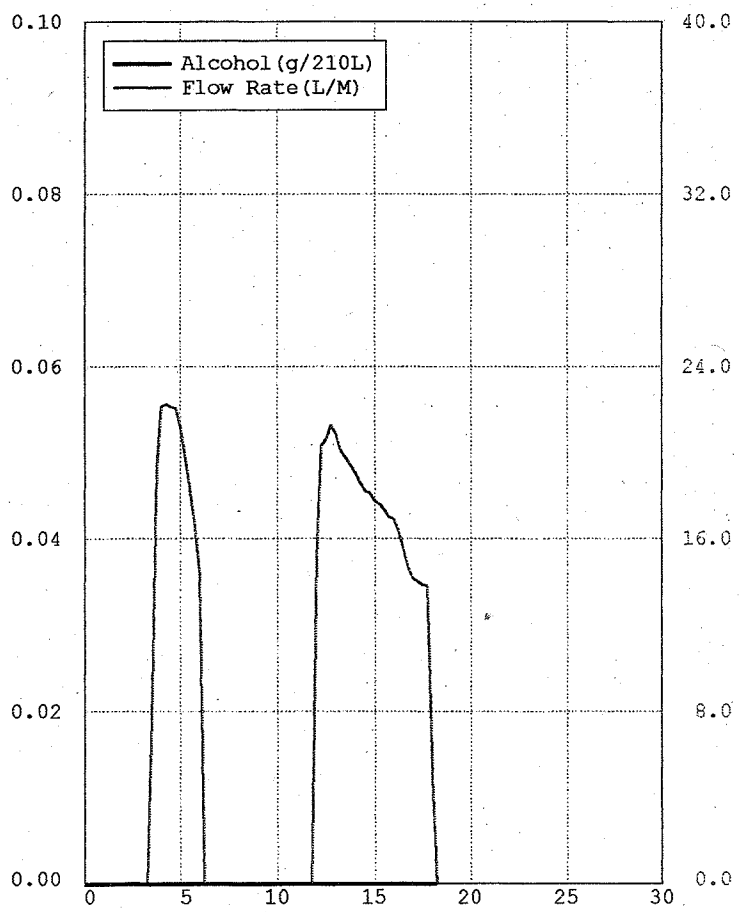
Subject Name:

Test Operator Name: A L B
Comment: BLANK TEST

BLANK TEST	0.000	14:04
INTERNAL STANDARD	PASSED	14:04
Xq = 0.1376 (1.47%)		
SUBJECT SAMPLE (Vol=1.8L)	0.000	14:05
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	14:05
SUBJECT SAMPLE (Vol=1.7L)	0.000	14:06
X[1] = 0.0000 (0.0000) (0.0000)		

USER ABORT





12/04/2007 14:06

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

Installation Date:

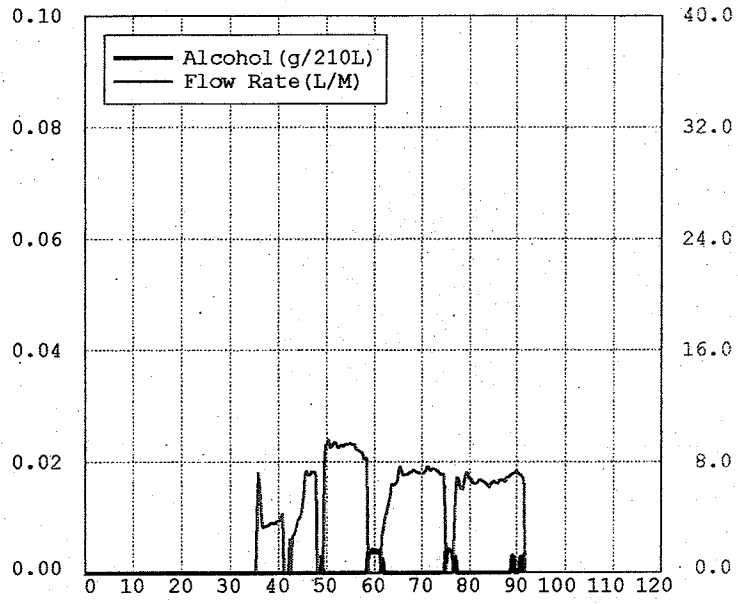
Date: 12/05/2007
Time: 08:40:01

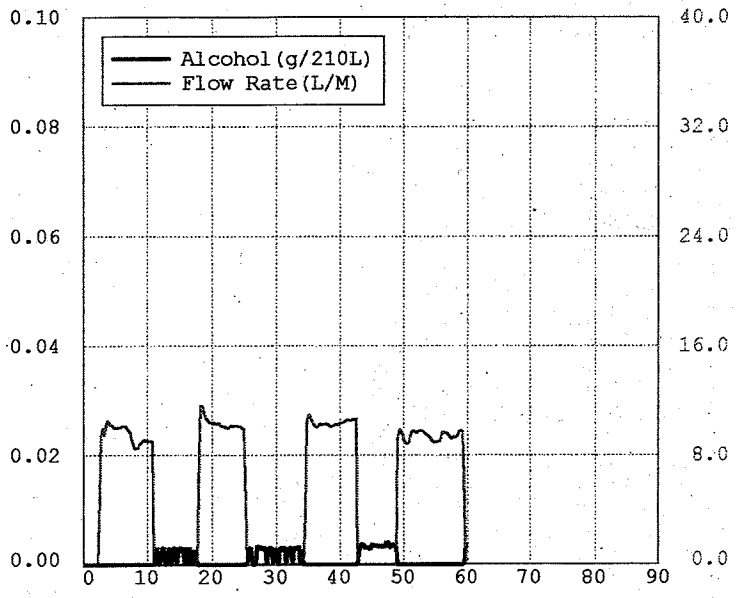
Subject Name: TEST TEST

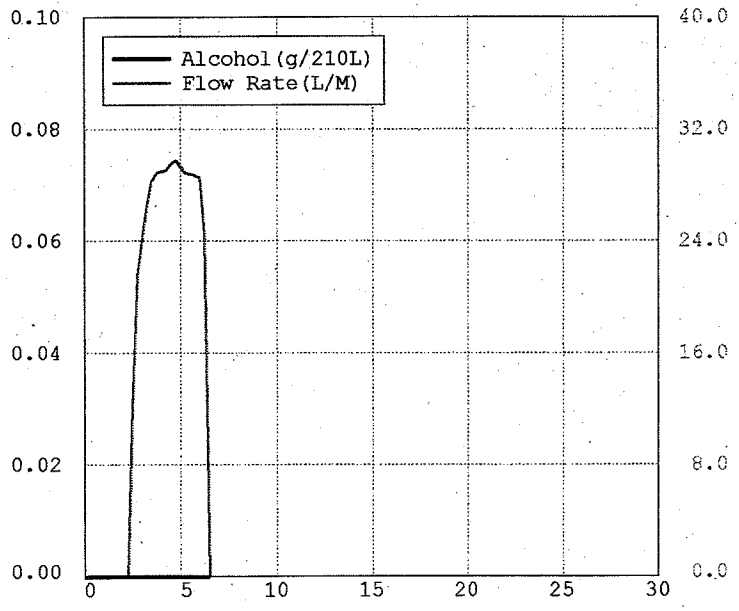
Test Operator Name: R J D
Comment: PURGE AND ZERO CHECK

BLANK TEST	0.000	08:40
INTERNAL STANDARD	PASSED	08:41
Xq = 0.1381 (1.15%)		
SUBJECT SAMPLE	INTERFERENCE	08:42
X[1] = 0.0046 (-0.0040) (-0.0046)		
BLANK TEST	0.000	08:43
SUBJECT SAMPLE (Vol=1.6L)	0.004	08:44
X[1] = 0.0043 (-0.0027) (-0.0032)		
BLANK TEST	0.000	08:45
SUBJECT SAMPLE (Vol=1.7L)	0.000	08:45
X[1] = 0.0000 (0.0000) (0.0000)		

BLANK ERROR







12/05/2007 08:46

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

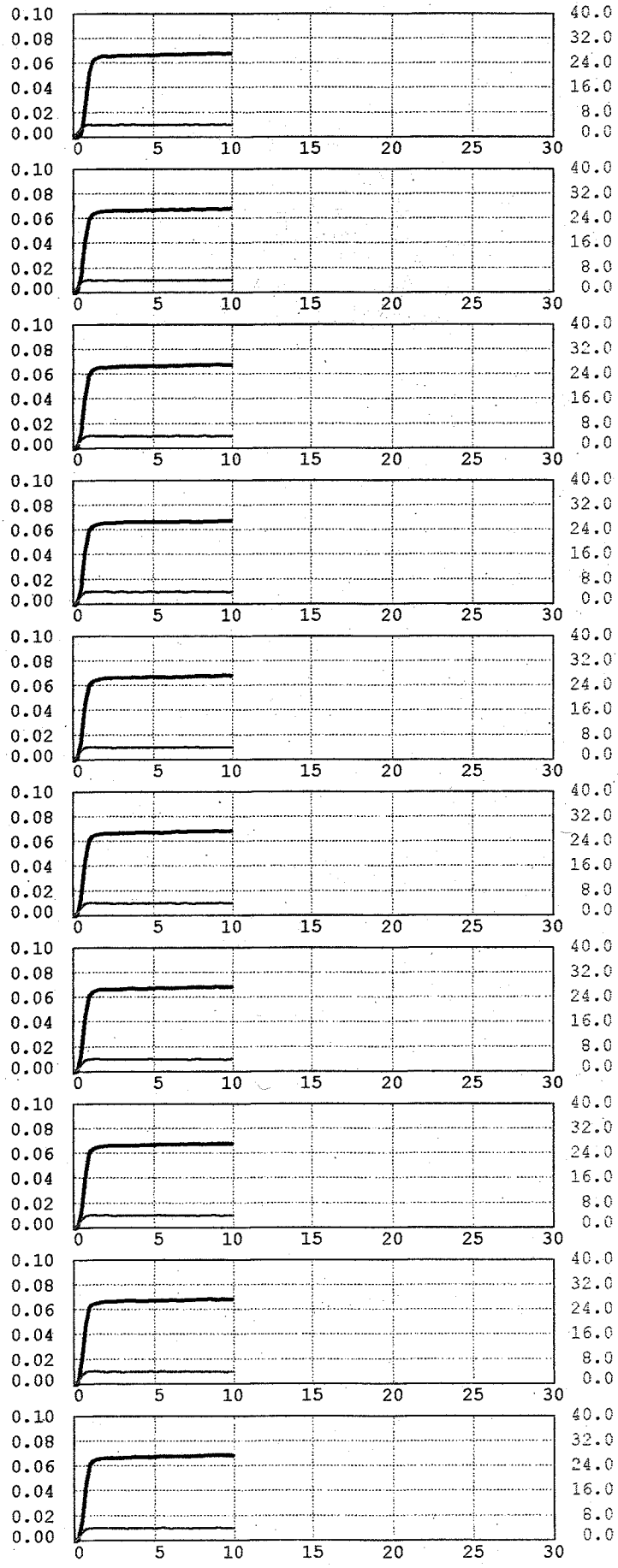
Date: 12/05/2007
Time: 10:33:17

SUPERVISOR NAME: DMR 0.0821 PRIME

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST		0.000	10:34
INTERNAL STANDARD		PASSED	10:34
Xq = 0.1388 (0.64%)			
SIMULATOR VAPOR (34.1°C)		0.067	10:34
X[1] = 0.0670	(0.0000)	(-0.0018)	
SIMULATOR VAPOR (34.1°C)		0.067	10:35
X[1] = 0.0677	(0.0010)	(-0.0014)	
SIMULATOR VAPOR (34.1°C)		0.067	10:36
X[1] = 0.0670	(-0.0005)	(-0.0029)	
SIMULATOR VAPOR (34.0°C)		0.067	10:37
X[1] = 0.0671	(-0.0003)	(-0.0020)	
SIMULATOR VAPOR (34.0°C)		0.067	10:38
X[1] = 0.0672	(0.0004)	(-0.0016)	
SIMULATOR VAPOR (34.0°C)		0.068	10:39
X[1] = 0.0681	(0.0001)	(-0.0021)	
SIMULATOR VAPOR (34.1°C)		0.067	10:40
X[1] = 0.0677	(0.0012)	(-0.0020)	
SIMULATOR VAPOR (34.1°C)		0.067	10:41
X[1] = 0.0674	(-0.0009)	(-0.0025)	
SIMULATOR VAPOR (34.1°C)		0.067	10:42
X[1] = 0.0676	(0.0009)	(-0.0020)	
SIMULATOR VAPOR (34.1°C)		0.068	10:43
X[1] = 0.0680	(0.0005)	(-0.0015)	
BLANK TEST		0.000	10:44

Average = 0.0672
Std Dev = 0.0004



DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

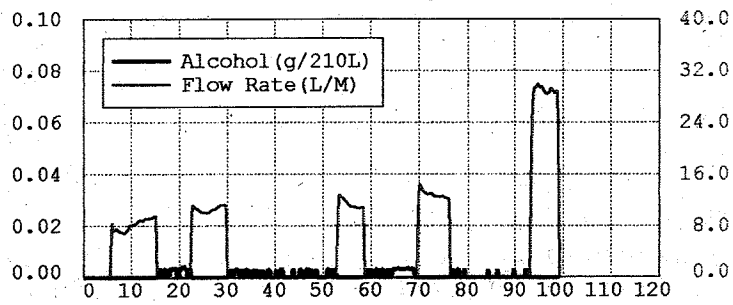
Installation Date:

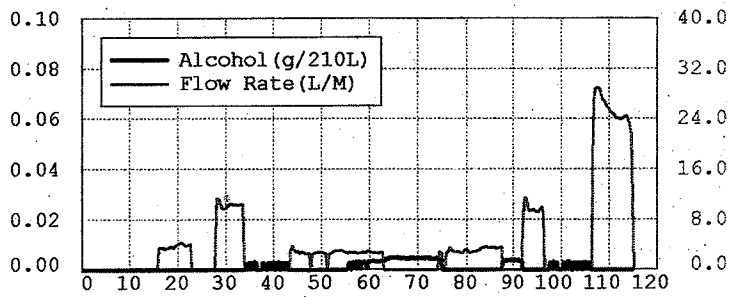
Date: 12/05/2007
Time: 09:17:16

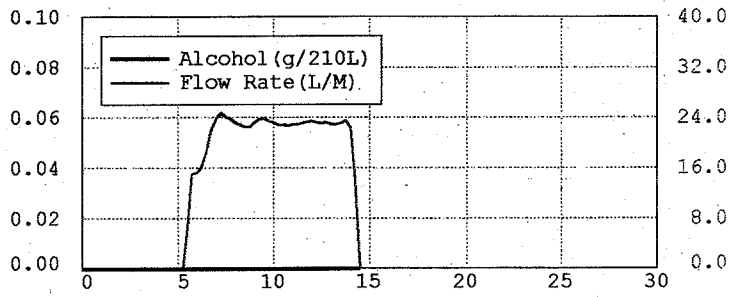
Subject Name: TEST TEST

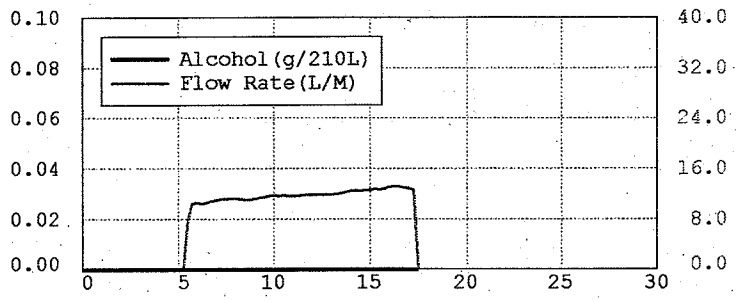
Test Operator Name: R J D
Comment: PURGE AND ZERO CHECK

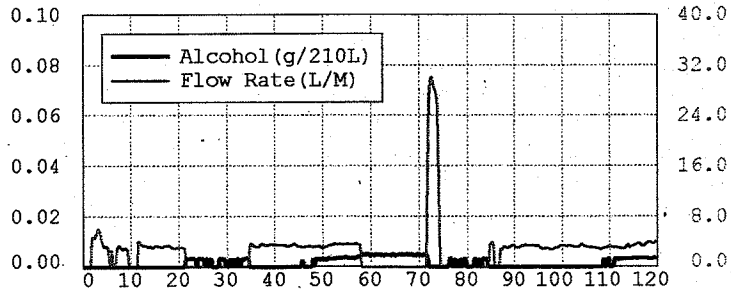
BLANK TEST	0.000	09:18
INTERNAL STANDARD	PASSED	09:18
Xq = 0.1379 (1.28%)		
SUBJECT SAMPLE (Vol=2.7L)	0.000	09:20
X[1] = 0.0002 (-0.0044) (0.0000)		
BLANK TEST	0.000	09:20
SUBJECT SAMPLE (Vol=3.5L)	0.003	09:22
X[1] = 0.0033 (0.0011) (-0.0010)		
BLANK TEST	0.000	09:23
SUBJECT SAMPLE (Vol=3.2L)	0.000	09:23
X[1] = 0.0017 (-0.0012) (-0.0010)		
BLANK TEST	0.000	09:24
SUBJECT SAMPLE (Vol=2.3L)	0.000	09:25
X[1] = 0.0027 (0.0003) (-0.0005)		
BLANK TEST	0.000	09:25
SUBJECT SAMPLE (Vol=1.7L)	0.003	09:27
X[1] = 0.0037 (-0.0007) (-0.0012)		
BLANK TEST	0.000	09:28
SUBJECT SAMPLE (Vol=2.0L)	INVALID	09:31
X[1] = 0.0000 (0.0000) (0.0000)		

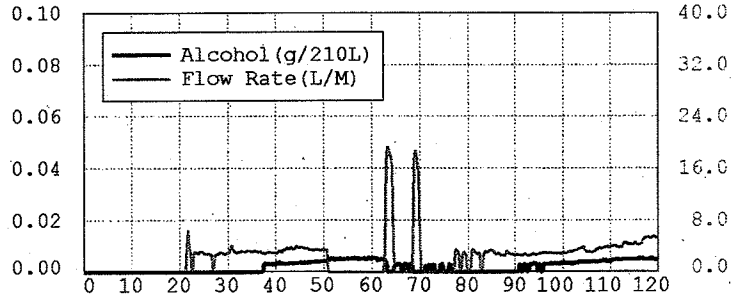












DIAGNOSTIC RESULT

DataMaster DMT: 102606
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 12/06/2007
Time: 08:20

VERMONT
DEPARTMENT OF HEALTH

```
VERSIONS
DMT 1.26
PIC 2.03
Questions 1.0
Reports 1.3

TEMPERATURES
Sample Chamber = 48.9 C
Breath Tube    = 46.5 C
Simulator Hose =  0.0 C
Digital Sim    = 34.1 C

SETTINGS
Lamp Voltage   = 2.34 V
Cooler Voltage = 1.98 V
Bias Voltage   = 122.0 V
Chopper Freq   = 547.5 Hz

PUMP INFO
Flow Rate = 4.749 L/M

DETECTOR INFO
PUMP     ON        OFF
MAX(V)   0.6049    0.6067
MIN(V)   0.6022    0.6045

FILTER INFO
Filter 1  0.605  Zero = true
Filter 2  0.936  Zero = true
Filter 3  1.675  Zero = true

INTERNAL STANDARD
Xq = 0.1380  1.21%
```

ACCURACY AND PRECISION TEST

STATE OF VERMONT

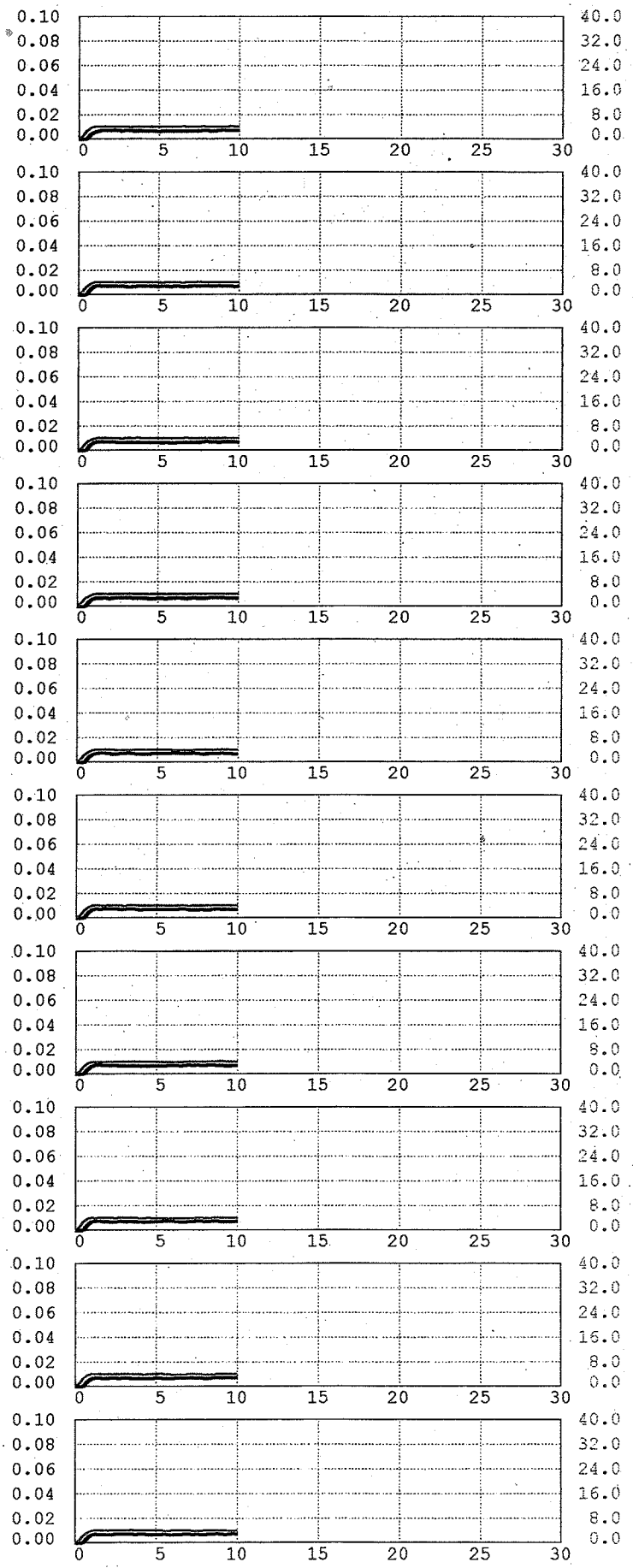
DataMaster DMT: 102606

Date: 12/06/2007
Time: 09:01:28

SUPERVISOR NAME: RJD .02 ACETONE IN H2O

SOLUTION LOT #: 09-20-07 A2
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	09:02
INTERNAL STANDARD	PASSED	09:02
Xq = 0.1387 (0.70%)		
SIMULATOR VAPOR	INTERFERENCE	09:02
X[1] = 0.0079 (-0.0078) (-0.0017)		
SIMULATOR VAPOR	INTERFERENCE	09:03
X[1] = 0.0080 (-0.0066) (-0.0007)		
SIMULATOR VAPOR	INTERFERENCE	09:04
X[1] = 0.0079 (-0.0077) (-0.0010)		
SIMULATOR VAPOR	INTERFERENCE	09:05
X[1] = 0.0076 (-0.0078) (-0.0014)		
SIMULATOR VAPOR	INTERFERENCE	09:06
X[1] = 0.0081 (-0.0065) (-0.0011)		
SIMULATOR VAPOR	INTERFERENCE	09:07
X[1] = 0.0081 (-0.0074) (-0.0020)		
SIMULATOR VAPOR	INTERFERENCE	09:08
X[1] = 0.0076 (-0.0077) (-0.0020)		
SIMULATOR VAPOR	INTERFERENCE	09:09
X[1] = 0.0080 (-0.0071) (-0.0021)		
SIMULATOR VAPOR	INTERFERENCE	09:10
X[1] = 0.0078 (-0.0085) (-0.0015)		
SIMULATOR VAPOR	INTERFERENCE	09:11
X[1] = 0.0078 (-0.0072) (-0.0014)		
BLANK TEST	0.000	09:12



12/06/2007 09:15

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

Date: 12/06/2007
Time: 09:25:45

SUPERVISOR NAME: RJD .01 ACETONE IN .04ETOH

SOLUTION LOT #: 07-14-04 A1
SOLUTION CONCENTRATION: 0.010

FILTER WHEEL ERROR

12/06/2007 09:27

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

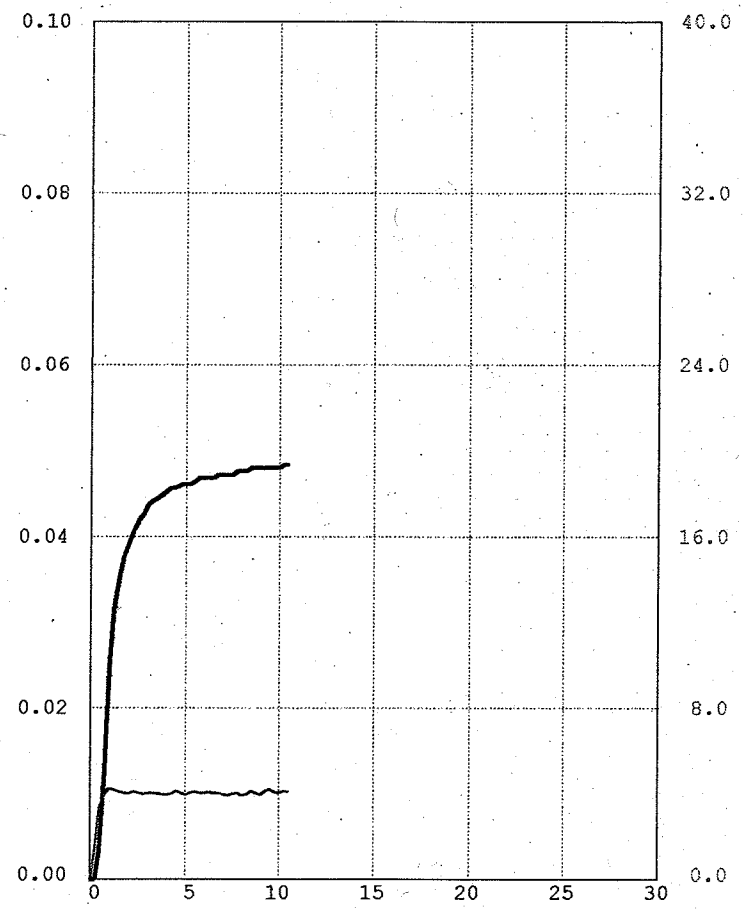
Date: 12/06/2007
Time: 09:29:12

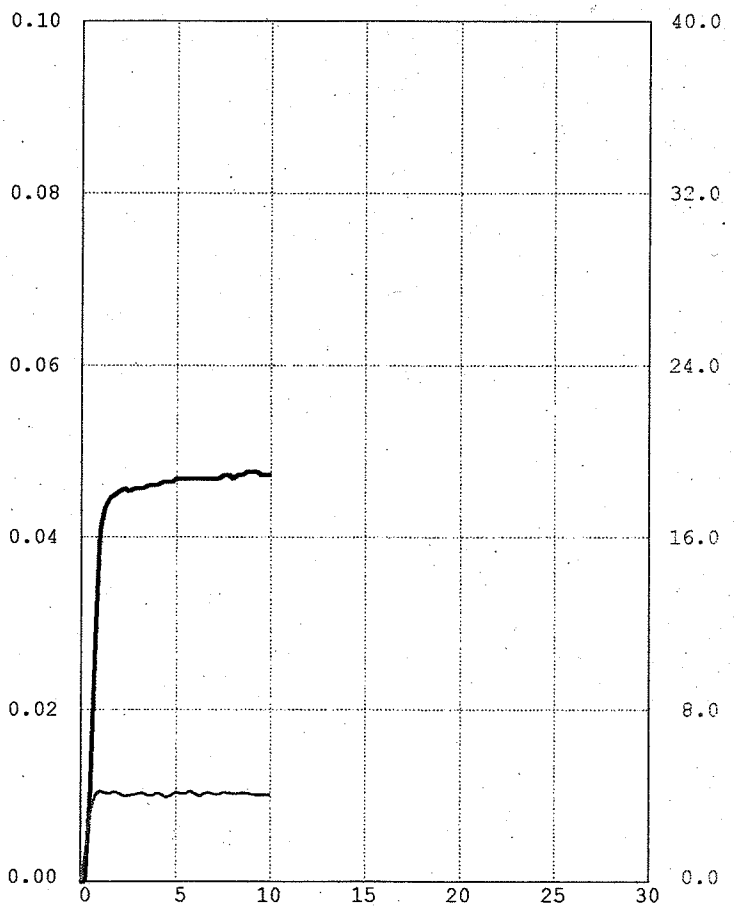
SUPERVISOR NAME: RJD .01 ACETONE IN .04ETOH

SOLUTION LOT #: 07-14-04 Al
SOLUTION CONCENTRATION: 0.010

BLANK TEST	0.000	09:30
INTERNAL STANDARD	PASSED	09:30
Xq = 0.1394 (0.19%)		
SIMULATOR VAPOR (34.1°C)	0.047	09:30
X[1] = 0.0477 (-0.0030) (-0.0012)		
SIMULATOR VAPOR (34.1°C)	0.047	09:31
X[1] = 0.0471 (-0.0041) (-0.0017)		

FILTER WHEEL ERROR





12/06/2007 09:32

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

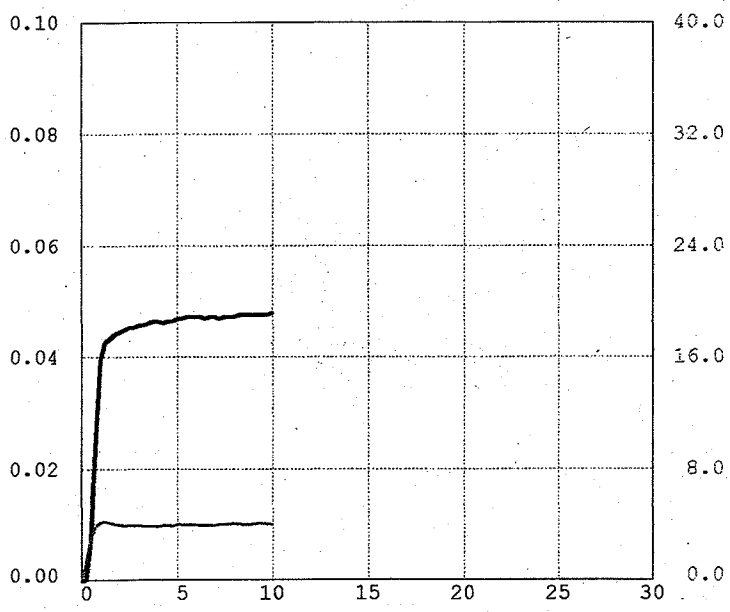
Date: 12/06/2007
Time: 09:33:12

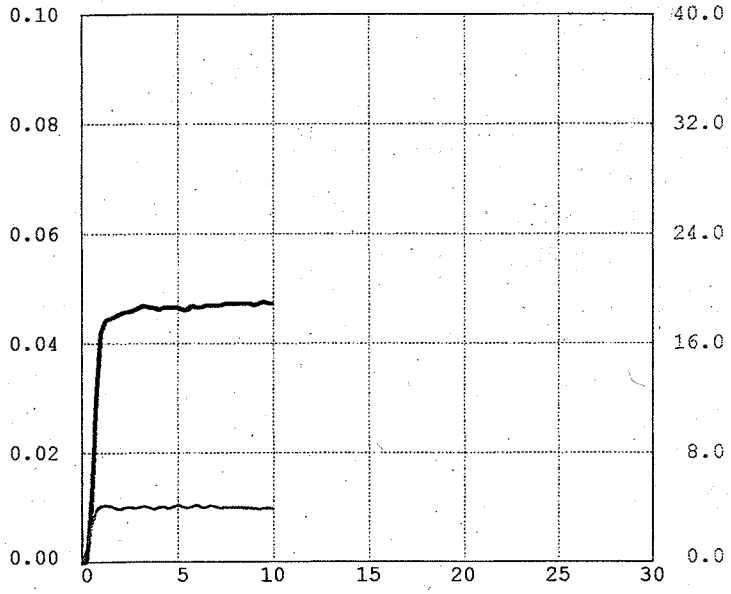
SUPERVISOR NAME: RJD .01 ACETONE IN .04ETOH

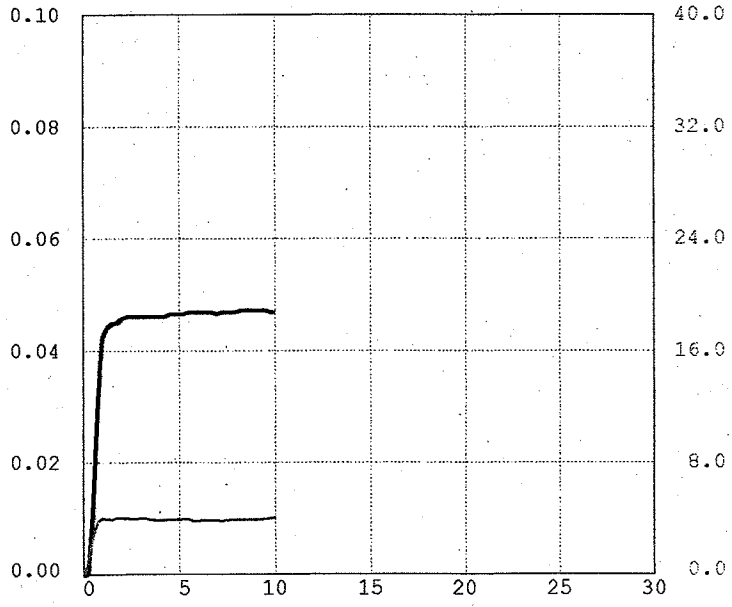
SOLUTION LOT #: 07-14-04 Al
SOLUTION CONCENTRATION: 0.010

BLANK TEST	0.000	09:34
INTERNAL STANDARD	PASSED	09:34
Xq = 0.1384 (0.90%)		
SIMULATOR VAPOR (34.1°C)	0.047	09:34
X[1] = 0.0473 (-0.0047) (-0.0019)		
SIMULATOR VAPOR (34.2°C)	0.046	09:35
X[1] = 0.0468 (-0.0046) (-0.0020)		
SIMULATOR VAPOR	INTERFERENCE	09:36
X[1] = 0.0466 (-0.0053) (-0.0017)		

FILTER WHEEL ERROR







ACCURACY AND PRECISION TEST

STATE OF VERMONT

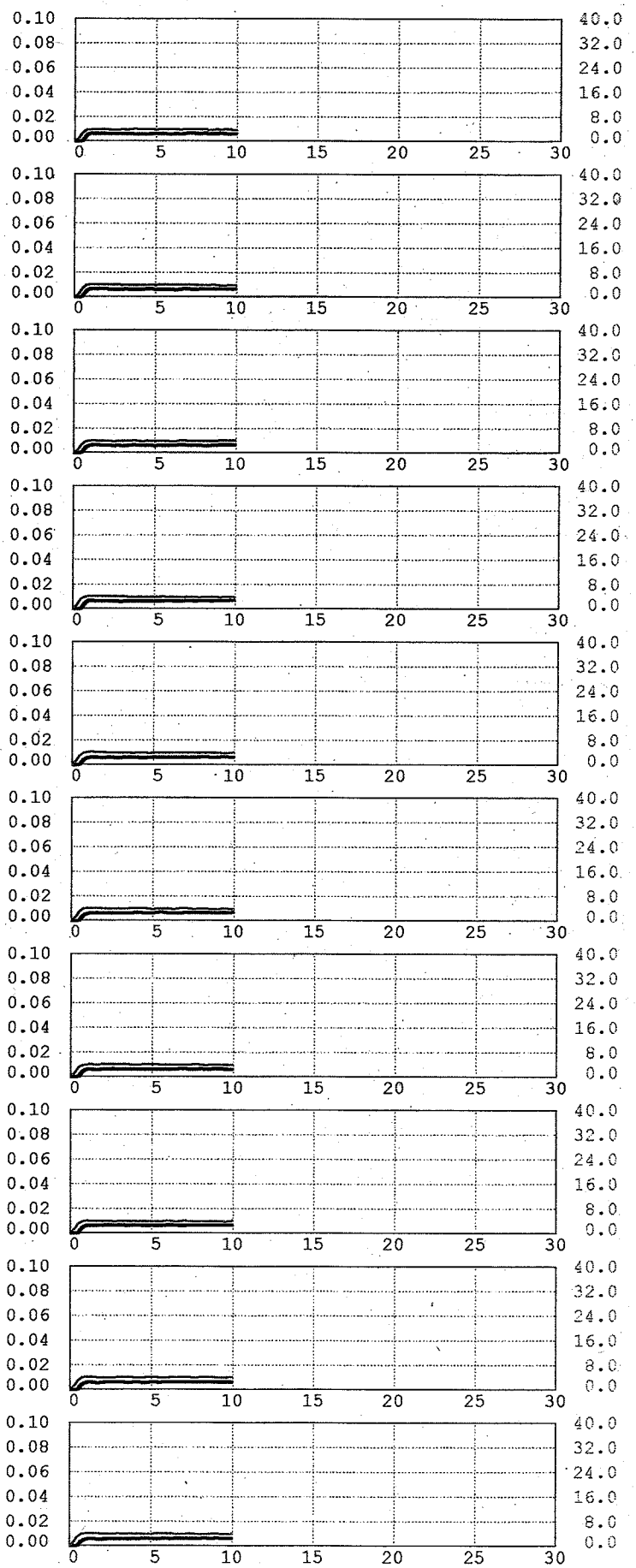
DataMaster DMT: 102606

Date: 12/07/2007
Time: 08:55:45

SUPERVISOR NAME: RJD .01 ACETONE IN H2O

SOLUTION LOT #: 09-20-07A1
SOLUTION CONCENTRATION: 0.010

BLANK TEST		0.000	08:56
INTERNAL STANDARD		PASSED	08:56
Xq = 0.1388 (0.64%)			
SIMULATOR VAPOR		INTERFERENCE	08:57
X[1] = 0.0071	(-0.0053)	(-0.0004)	
SIMULATOR VAPOR	(34.0°C)	0.007	08:58
X[1] = 0.0076	(-0.0049)	(-0.0013)	
SIMULATOR VAPOR		INTERFERENCE	08:59
X[1] = 0.0070	(-0.0063)	(-0.0013)	
SIMULATOR VAPOR		INTERFERENCE	08:59
X[1] = 0.0074	(-0.0051)	(-0.0010)	
SIMULATOR VAPOR	(34.0°C)	0.007	09:00
X[1] = 0.0073	(-0.0044)	(-0.0014)	
SIMULATOR VAPOR		INTERFERENCE	09:01
X[1] = 0.0075	(-0.0055)	(-0.0019)	
SIMULATOR VAPOR		INTERFERENCE	09:02
X[1] = 0.0072	(-0.0065)	(-0.0009)	
SIMULATOR VAPOR		INTERFERENCE	09:03
X[1] = 0.0072	(-0.0051)	(-0.0019)	
SIMULATOR VAPOR		INTERFERENCE	09:04
X[1] = 0.0069	(-0.0053)	(-0.0029)	
SIMULATOR VAPOR		INTERFERENCE	09:05
X[1] = 0.0070	(-0.0059)	(-0.0013)	
BLANK TEST		0.000	09:06



12/07/2007 09:11

5-28

ACCURACY AND PRECISION TEST

STATE OF VERMONT

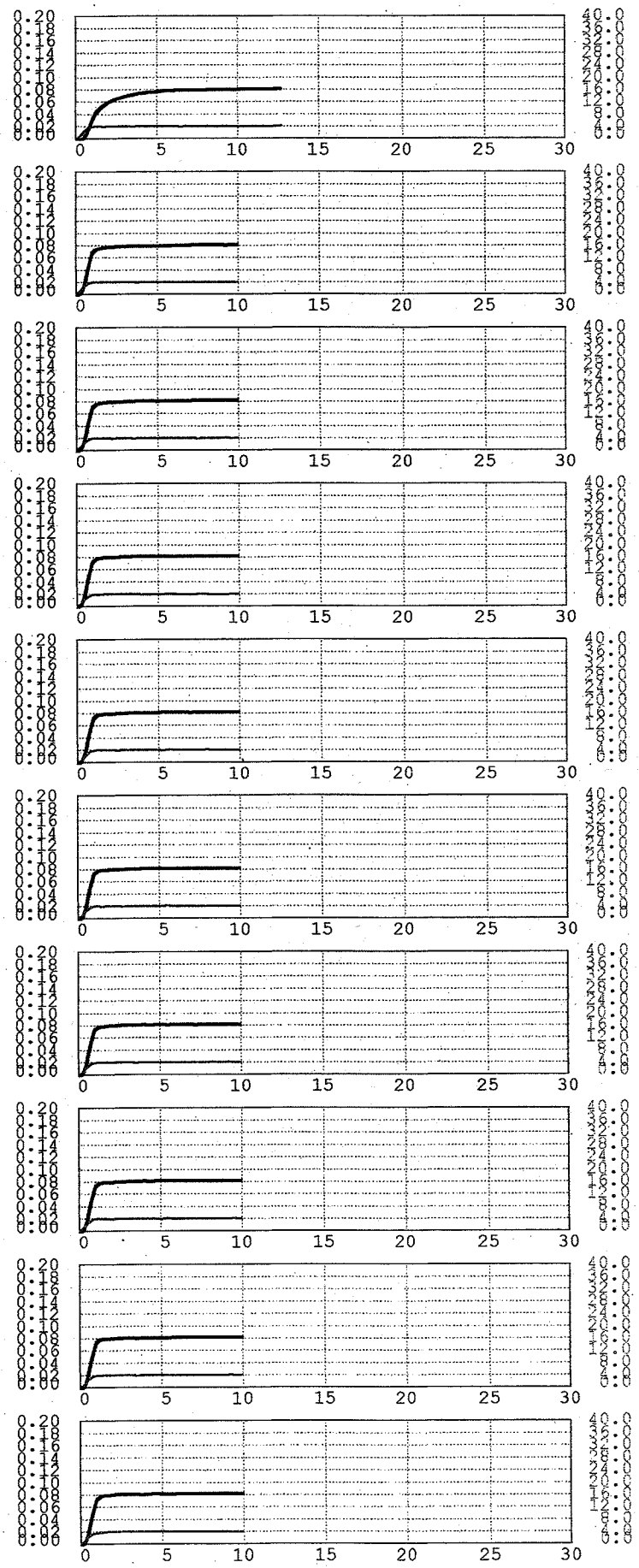
DataMaster DMT: 102606

Date: 12/07/2007
Time: 09:12:53

SUPERVISOR NAME: RJD .01 ACETONE IN .08ETOH

SOLUTION LOT #: 07-09-080 A1
SOLUTION CONCENTRATION: 0.010

BLANK TEST		0.000	09:13
INTERNAL STANDARD		PASSED	09:13
Xq = 0.1382 (1.02%)			
SIMULATOR VAPOR	(33.8°C)	0.081	09:14
X[1] = 0.0812	(-0.0024)	(-0.0016)	
SIMULATOR VAPOR	(33.8°C)	0.081	09:15
X[1] = 0.0812	(-0.0038)	(-0.0027)	
SIMULATOR VAPOR	(33.9°C)	0.082	09:16
X[1] = 0.0820	(-0.0025)	(-0.0025)	
SIMULATOR VAPOR	(33.8°C)	0.082	09:17
X[1] = 0.0822	(-0.0029)	(-0.0024)	
SIMULATOR VAPOR		INTERFERENCE	09:18
X[1] = 0.0819	(-0.0042)	(-0.0030)	
SIMULATOR VAPOR	(33.8°C)	0.082	09:19
X[1] = 0.0827	(-0.0018)	(-0.0020)	
SIMULATOR VAPOR	(33.9°C)	0.082	09:20
X[1] = 0.0823	(-0.0029)	(-0.0021)	
SIMULATOR VAPOR	(33.9°C)	0.082	09:21
X[1] = 0.0823	(-0.0028)	(-0.0023)	
SIMULATOR VAPOR	(33.8°C)	0.082	09:22
X[1] = 0.0827	(-0.0024)	(-0.0021)	
SIMULATOR VAPOR	(33.9°C)	0.081	09:23
X[1] = 0.0819	(-0.0042)	(-0.0017)	
BLANK TEST		0.000	09:23



12/07/2007 09:23

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

Date: 01/02/2008
Time: 10:29:41

0.01 Acetone in .08 EtOH

SUPERVISOR NAME: D M R

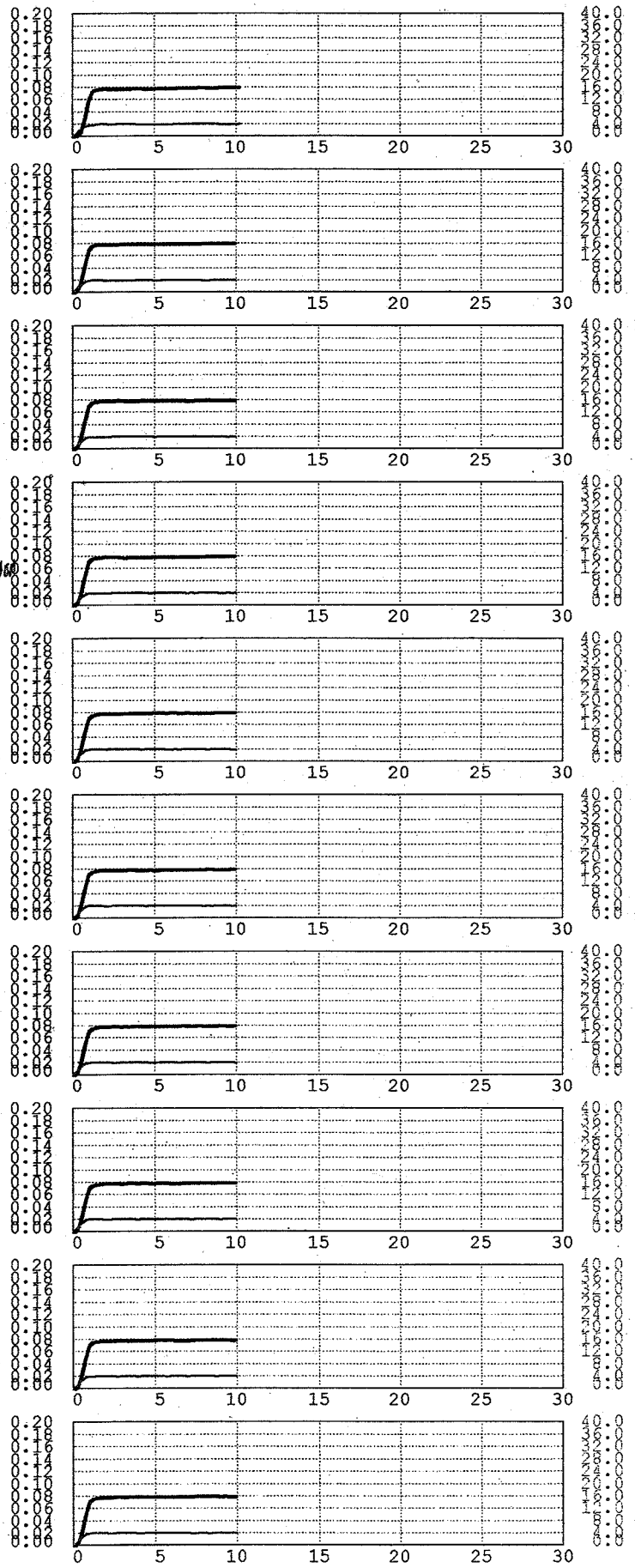
Al 01/02/08

SOLUTION LOT #: 07-09-080~~4~~
SOLUTION CONCENTRATION: 0.010 Acetone

BLANK TEST	0.000	10:30
INTERNAL STANDARD	PASSED	10:30
Xq = 0.1380 (1.21%)		
SIMULATOR VAPOR (33.8°C)	0.078	10:31
X[1] = 0.0788 (-0.0026) (-0.0018)		
SIMULATOR VAPOR (33.8°C)	0.079	10:31
X[1] = 0.0790 (-0.0012) (-0.0009)		
SIMULATOR VAPOR (33.8°C)	0.078	10:32
X[1] = 0.0788 (-0.0033) (-0.0020)		
SIMULATOR VAPOR (33.9°C)	0.078	10:33
X[1] = 0.0789 (-0.0029) (-0.0015)		
SIMULATOR VAPOR (33.8°C)	0.079	10:34
X[1] = 0.0792 (-0.0024) (-0.0021)		
SIMULATOR VAPOR (33.8°C)	0.078	10:35
X[1] = 0.0785 (-0.0034) (-0.0016)		
SIMULATOR VAPOR (33.8°C)	0.078	10:36
X[1] = 0.0786 (-0.0029) (-0.0025)		
SIMULATOR VAPOR (33.8°C)	0.078	10:37
X[1] = 0.0784 (-0.0034) (-0.0031)		
SIMULATOR VAPOR (33.8°C)	0.078	10:38
X[1] = 0.0782 (-0.0039) (-0.0021)		
SIMULATOR VAPOR (33.8°C)	0.079	10:39
X[1] = 0.0790 (-0.0022) (-0.0020)		
BLANK TEST	0.000	10:40

Average = 0.0783
Std Dev = 0.0005

0.010 Acetone in 0.08 EtOH



01/02/2008 10:40

DIAGNOSTIC RESULT

DataMaster DMT: 102806
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 01/02/2008
Time: 10:35

VERMONT
DEPARTMENT OF HEALTH

VERSIONS
DMT 1.26
PIC 2.03
Questions 1.0
Reports 1.3

TEMPERATURES
Sample Chamber = 48.7 C
Breath Tube = 46.4 C
Simulator Hose = 0.0 C

SETTINGS
Lamp Voltage = 2.10 V
Cooler Voltage = 1.68 V
Bias Voltage = 120.5 V
Chopper Freq = 534.5 Hz

PUMP INFO
Flow Rate = 4.974 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.2104	0.2112
MIN(V)	0.2083	0.2093

FILTER INFO
Filter 1 0.210 Zero = true
Filter 2 0.666 Zero = true
Filter 3 1.551 Zero = true

INTERNAL STANDARD
Xq = 0.1099 1.96%

ACCURACY AND PRECISION TEST

STATE OF VERMONT

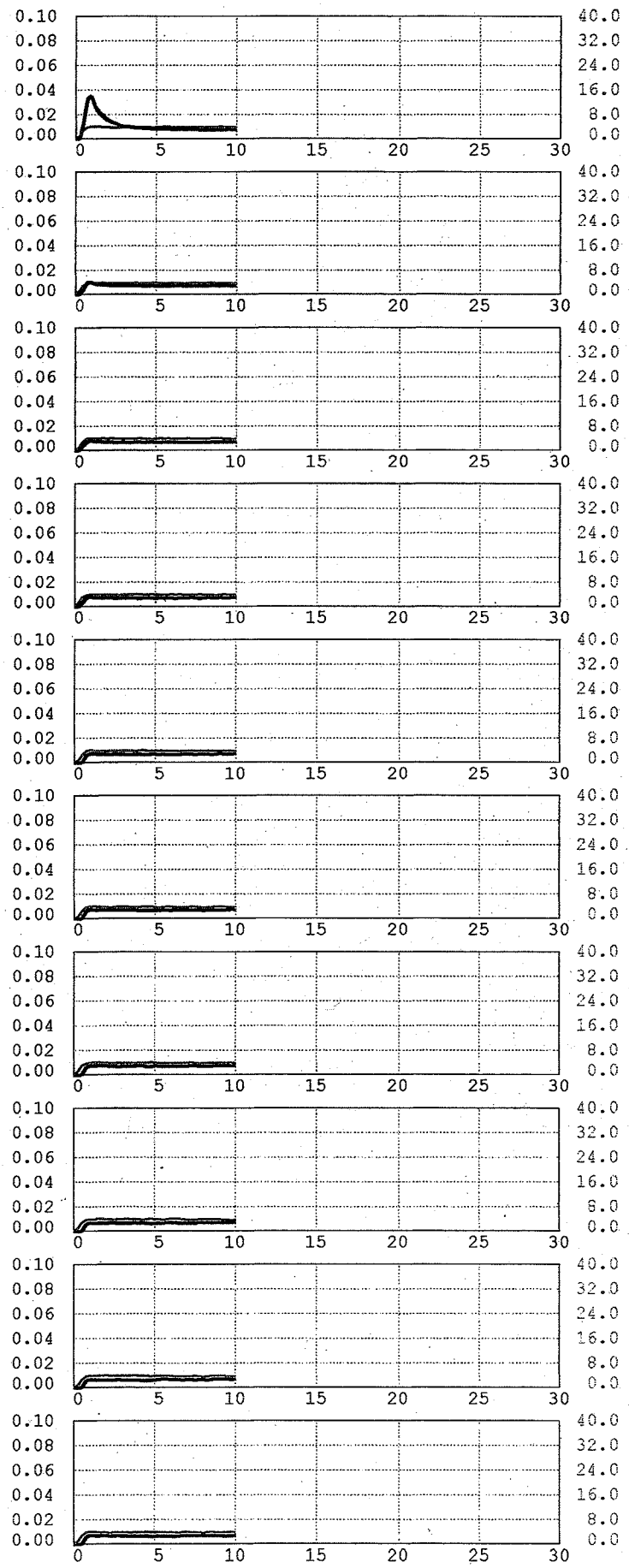
DataMaster DMT: 102606

Date: 01/02/2008
Time: 10:44:23

SUPERVISOR NAME: DMR 0.01 ACETONE IN H20

SOLUTION LOT #: ~~09-07-01A~~ 09-20-070A1
SOLUTION CONCENTRATION: 0.010

BLANK TEST		0.000	10:45
INTERNAL STANDARD		PASSED	10:45
Xq = 0.1376 (1.47%)			
SIMULATOR VAPOR		INTERFERENCE	10:45
X[1] = 0.0079	(-0.0061)	(-0.0017)	
SIMULATOR VAPOR	(34.0°C)	0.007	10:46
X[1] = 0.0078	(-0.0046)	(-0.0017)	
SIMULATOR VAPOR		INTERFERENCE	10:47
X[1] = 0.0072	(-0.0060)	(-0.0018)	
SIMULATOR VAPOR		INTERFERENCE	10:48
X[1] = 0.0074	(-0.0053)	(-0.0021)	
SIMULATOR VAPOR		INTERFERENCE	10:49
X[1] = 0.0075	(-0.0055)	(-0.0021)	
SIMULATOR VAPOR		INTERFERENCE	10:50
X[1] = 0.0074	(-0.0062)	(-0.0013)	
SIMULATOR VAPOR	(33.9°C)	0.007	10:51
X[1] = 0.0077	(-0.0043)	(-0.0021)	
SIMULATOR VAPOR		INTERFERENCE	10:52
X[1] = 0.0073	(-0.0063)	(-0.0021)	
SIMULATOR VAPOR		INTERFERENCE	10:53
X[1] = 0.0070	(-0.0066)	(-0.0024)	
SIMULATOR VAPOR		INTERFERENCE	10:54
X[1] = 0.0071	(-0.0048)	(-0.0023)	
BLANK TEST		0.000	10:55



01/02/2008 10:56

5-32

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

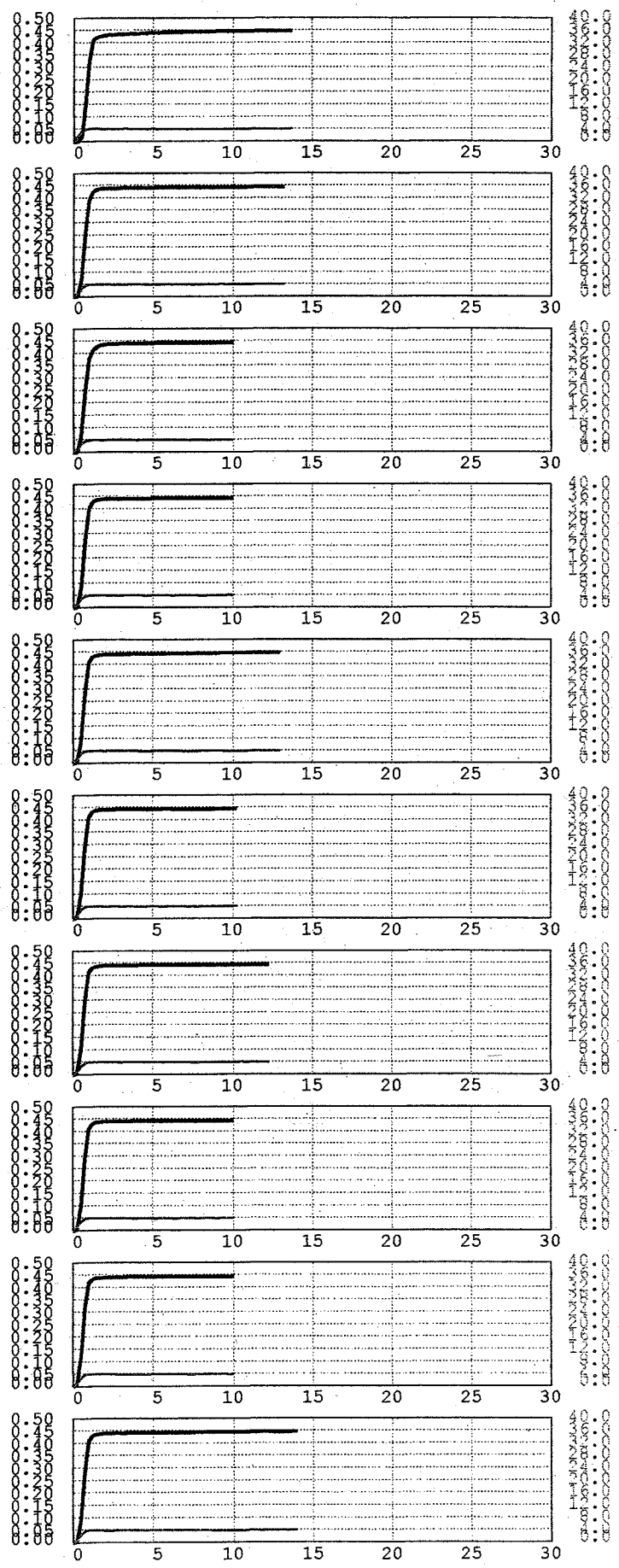
Date: 01/09/2008
Time: 14:52:13

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST		0.000	14:53
INTERNAL STANDARD		PASSED	14:53
Xq = 0.1341 (0.07%)			
SIMULATOR VAPOR (34.2°C)		0.437	14:53
X[1] = 0.4376	(0.0004)	(0.0053)	
SIMULATOR VAPOR (34.2°C)		0.436	14:54
X[1] = 0.4362	(-0.0013)	(0.0041)	
SIMULATOR VAPOR (34.2°C)		0.433	14:55
X[1] = 0.4336	(-0.0010)	(0.0035)	
SIMULATOR VAPOR (34.1°C)		0.433	14:56
X[1] = 0.4335	(-0.0012)	(0.0034)	
SIMULATOR VAPOR (34.2°C)		0.438	14:57
X[1] = 0.4380	(0.0002)	(0.0044)	
SIMULATOR VAPOR (34.1°C)		0.435	14:58
X[1] = 0.4359	(0.0000)	(0.0041)	
SIMULATOR VAPOR (34.1°C)		0.435	14:59
X[1] = 0.4352	(-0.0004)	(0.0035)	
SIMULATOR VAPOR (34.1°C)		0.433	15:00
X[1] = 0.4338	(-0.0015)	(0.0040)	
SIMULATOR VAPOR (34.2°C)		0.434	15:01
X[1] = 0.4350	(-0.0013)	(0.0044)	
SIMULATOR VAPOR (34.0°C)		0.437	15:02
X[1] = 0.4377	(-0.0007)	(0.0044)	
BLANK TEST		0.000	15:03

Average = 0.4352
Std Dev = 0.0018



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

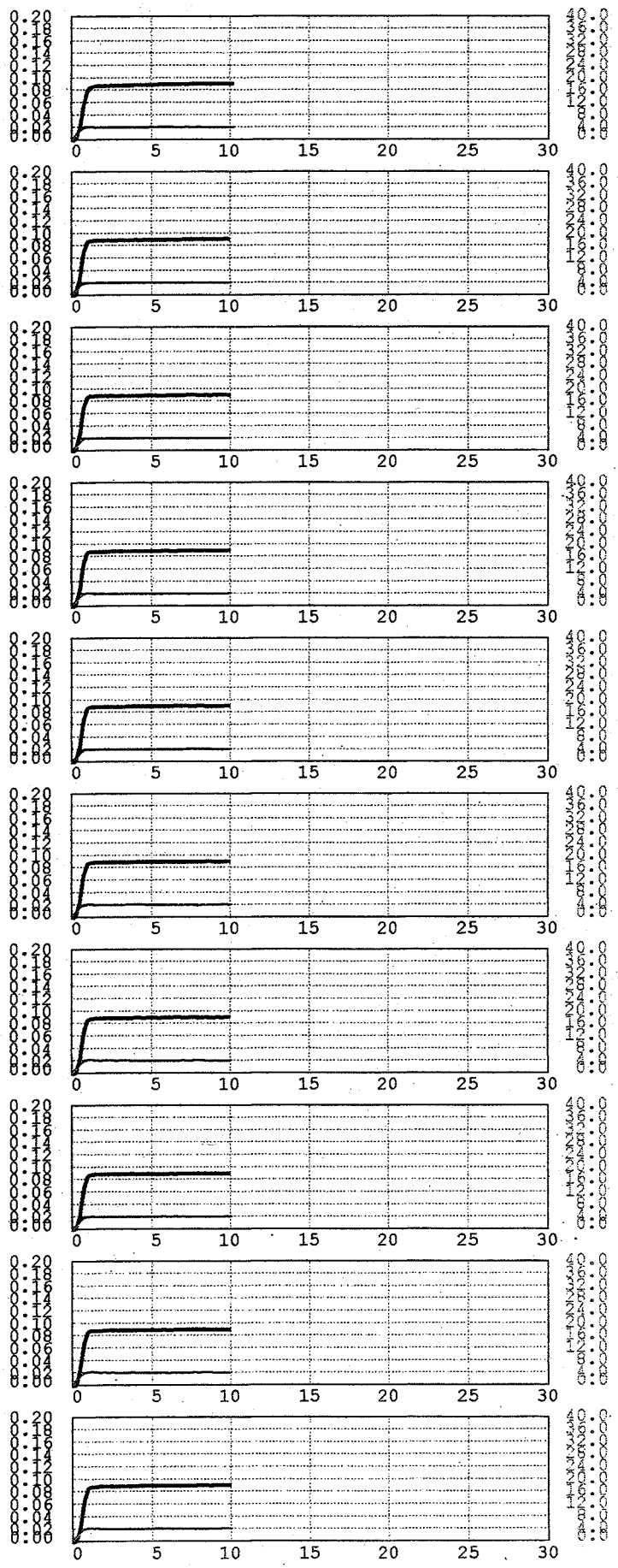
Date: 01/09/2008
Time: 15:09:05

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST		0.000	15:10
INTERNAL STANDARD		PASSED	15:10
Xq = 0.1341 (0.00%)			
SIMULATOR VAPOR	(34.0°C)	0.089	15:10
X[1] = 0.0896	(-0.0009)	(0.0003)	
SIMULATOR VAPOR	(33.9°C)	0.089	15:11
X[1] = 0.0893	(-0.0006)	(-0.0003)	
SIMULATOR VAPOR	(33.9°C)	0.089	15:12
X[1] = 0.0894	(-0.0013)	(-0.0008)	
SIMULATOR VAPOR	(34.0°C)	0.089	15:13
X[1] = 0.0893	(-0.0015)	(-0.0002)	
SIMULATOR VAPOR	(34.0°C)	0.089	15:14
X[1] = 0.0894	(-0.0009)	(0.0002)	
SIMULATOR VAPOR	(34.0°C)	0.088	15:15
X[1] = 0.0889	(-0.0013)	(-0.0008)	
SIMULATOR VAPOR	(34.0°C)	0.089	15:16
X[1] = 0.0892	(-0.0015)	(0.0001)	
SIMULATOR VAPOR	(33.9°C)	0.088	15:17
X[1] = 0.0883	(-0.0024)	(0.0002)	
SIMULATOR VAPOR	(33.9°C)	0.088	15:18
X[1] = 0.0886	(-0.0012)	(0.0003)	
SIMULATOR VAPOR	(34.0°C)	0.089	15:19
X[1] = 0.0891	(-0.0025)	(-0.0009)	
BLANK TEST		0.000	15:20

Average = 0.0887
Std Dev = 0.0005



04/30/2008 10:02

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

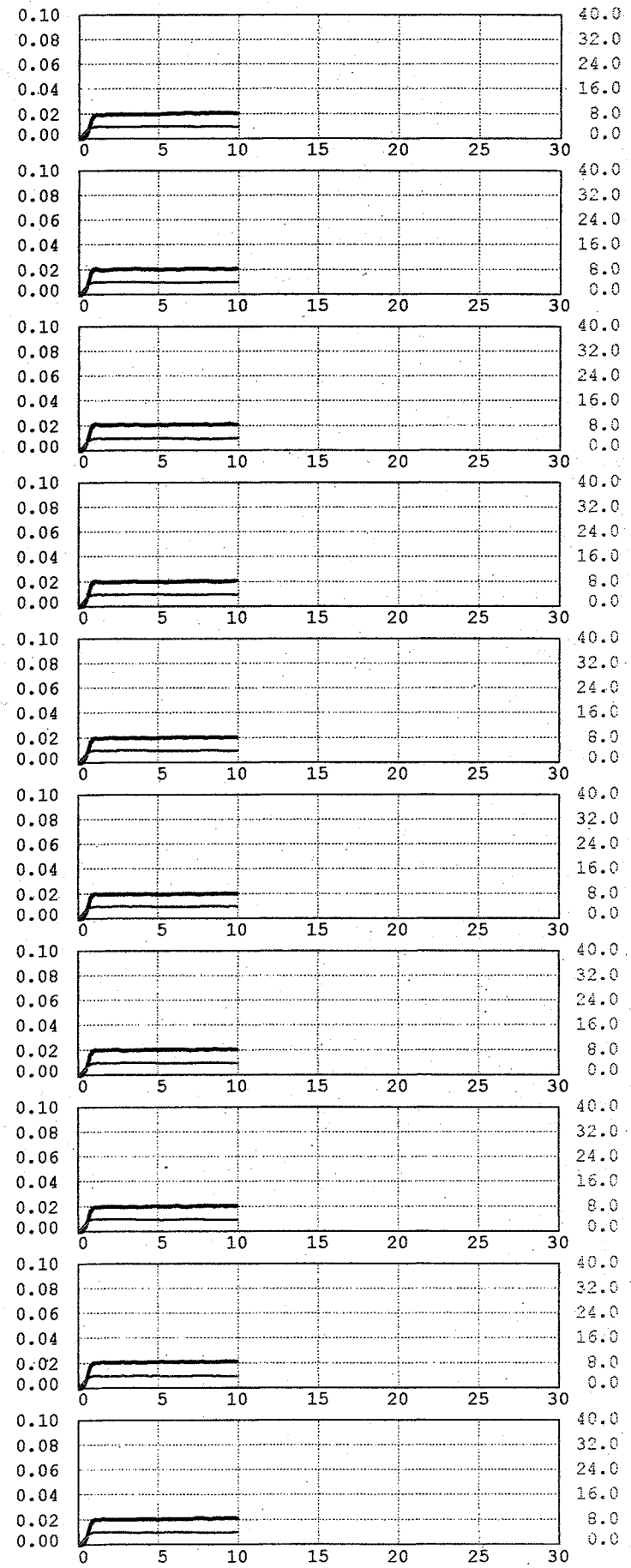
Date: 01/09/2008
Time: 15:23:40

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-15-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST		0.000	15:24
INTERNAL STANDARD		PASSED	15:24
Xq = 0.1341 (0.07%)			
SIMULATOR VAPOR (33.8°C)		0.020	15:25
X[1] = 0.0204	(-0.0014)	(-0.0005)	
SIMULATOR VAPOR (33.8°C)		0.020	15:26
X[1] = 0.0207	(-0.0018)	(-0.0009)	
SIMULATOR VAPOR (33.8°C)		0.020	15:27
X[1] = 0.0208	(-0.0009)	(-0.0005)	
SIMULATOR VAPOR (33.8°C)		0.020	15:27
X[1] = 0.0204	(-0.0007)	(-0.0012)	
SIMULATOR VAPOR (33.8°C)		0.020	15:28
X[1] = 0.0202	(-0.0017)	(-0.0004)	
SIMULATOR VAPOR (33.8°C)		0.020	15:29
X[1] = 0.0201	(-0.0017)	(-0.0015)	
SIMULATOR VAPOR (33.8°C)		0.020	15:30
X[1] = 0.0204	(-0.0012)	(-0.0003)	
SIMULATOR VAPOR (33.8°C)		0.020	15:31
X[1] = 0.0206	(-0.0013)	(-0.0001)	
SIMULATOR VAPOR (33.8°C)		0.020	15:32
X[1] = 0.0207	(-0.0010)	(-0.0010)	
SIMULATOR VAPOR (33.8°C)		0.020	15:33
X[1] = 0.0206	(-0.0014)	(-0.0008)	
BLANK TEST		0.000	15:34

Average = 0.0200
Std Dev = 0.0000



04/30/2008 10:03

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

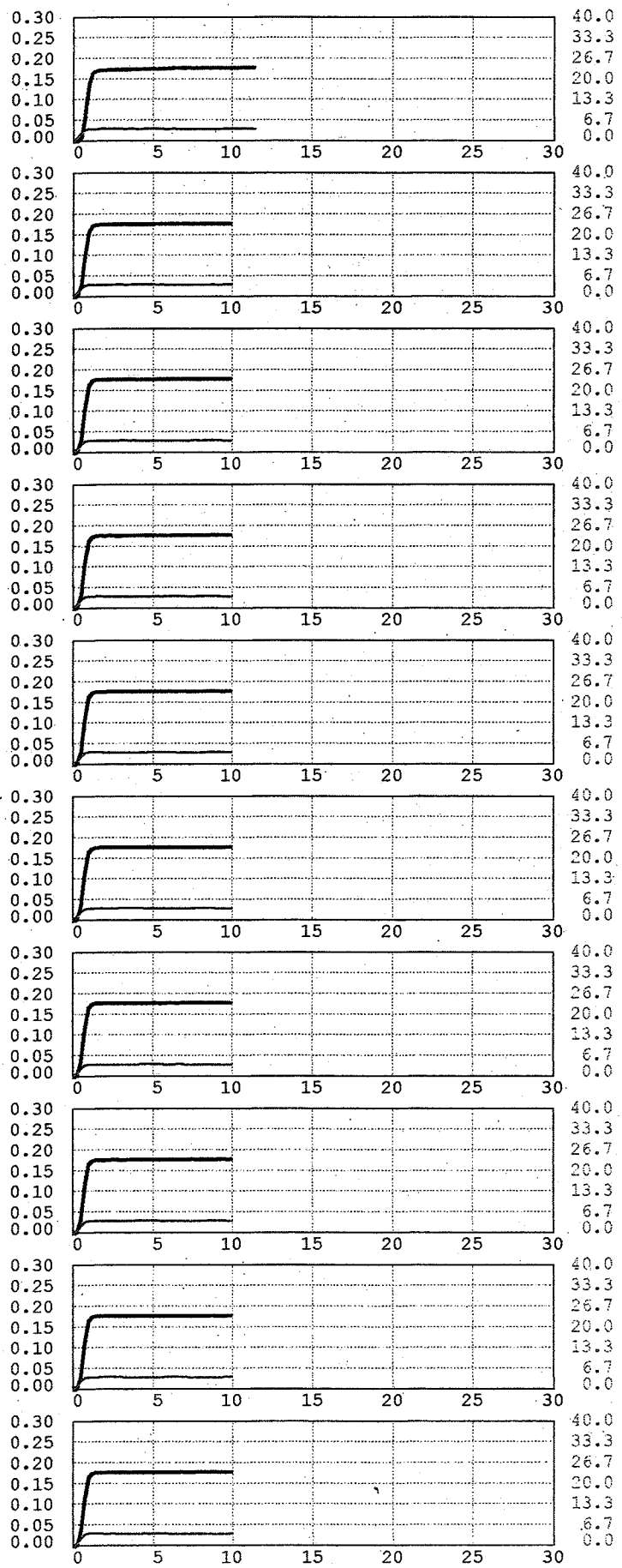
Date: 01/09/2008
Time: 15:50:11

SUPERVISOR NAME: D M R

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

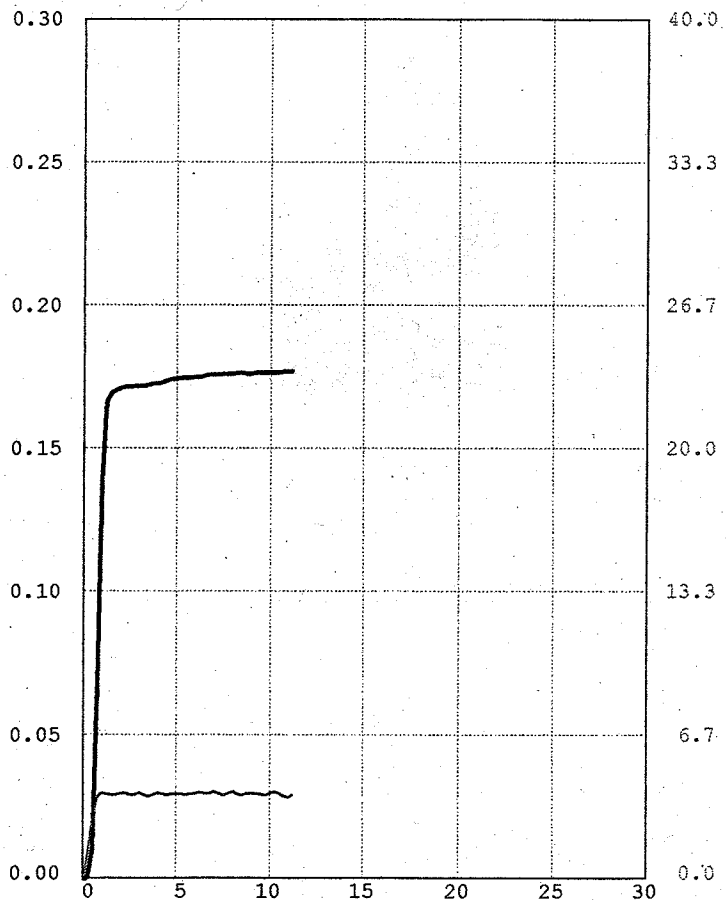
BLANK TEST		0.000	15:51
INTERNAL STANDARD		PASSED	15:51
Xq = 0.1346 (0.33%)			
SIMULATOR VAPOR (34.0°C)		0.170	15:51
X[1] = 0.1707	(-0.0004)	(0.0032)	
SIMULATOR VAPOR (34.0°C)		0.170	15:52
X[1] = 0.1701	(-0.0020)	(0.0025)	
SIMULATOR VAPOR (33.9°C)		0.172	15:53
X[1] = 0.1721	(0.0003)	(0.0025)	
SIMULATOR VAPOR (34.0°C)		0.171	15:54
X[1] = 0.1717	(-0.0011)	(0.0020)	
SIMULATOR VAPOR (34.0°C)		0.171	15:55
X[1] = 0.1716	(-0.0016)	(0.0021)	
SIMULATOR VAPOR (34.0°C)		0.171	15:56
X[1] = 0.1711	(-0.0011)	(0.0024)	
SIMULATOR VAPOR (34.0°C)		0.170	15:57
X[1] = 0.1708	(-0.0018)	(0.0025)	
SIMULATOR VAPOR (34.0°C)		0.170	15:58
X[1] = 0.1708	(-0.0017)	(0.0018)	
SIMULATOR VAPOR (34.0°C)		0.171	15:59
X[1] = 0.1712	(-0.0015)	(0.0015)	
SIMULATOR VAPOR (34.0°C)		0.171	16:00
X[1] = 0.1714	(-0.0014)	(0.0024)	
BLANK TEST		0.000	16:01

Average = 0.1707
Std Dev = 0.0007



04/30/2008 10:03

5-36



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

Date: 01/10/2008
Time: 11:21:40

SUPERVISOR NAME: A L B

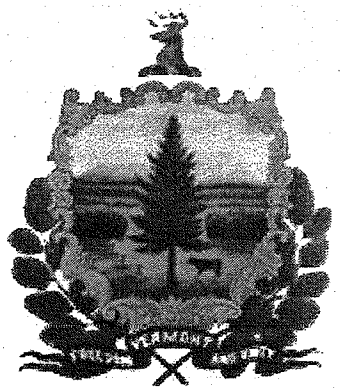
SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

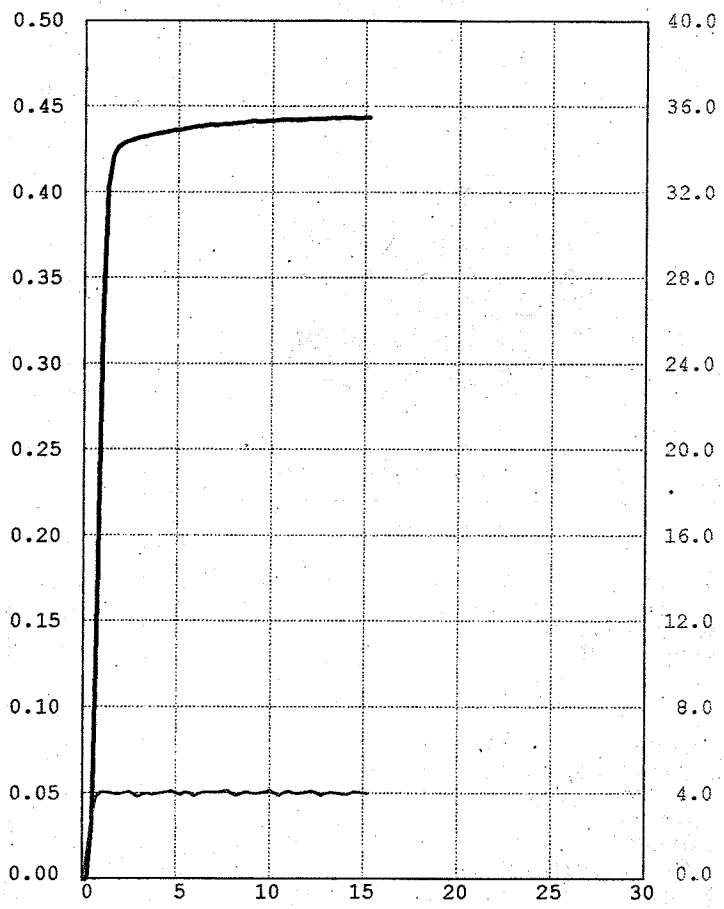
BLANK TEST	0.000	11:22
INTERNAL STANDARD	PASSED	11:22
Xq = 0.1338 (0.27%)		
SIMULATOR VAPOR (34.1°C)	0.170	11:23
X[1] = 0.1704 (-0.0013) (0.0011)		

STANDARD OUT OF RANGE

04/30/2008 10:04

5-37





ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

Date: 01/10/2008
Time: 11:24:17

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST	0.000	11:25
INTERNAL STANDARD	PASSED	11:25
Xq = 0.1340 (0.13%)		
SIMULATOR VAPOR (34.2°C)	0.433	11:25
X[1] = 0.4339 (-0.0011) (0.0022)		

STANDARD OUT OF RANGE

04/30/2008 10:05

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

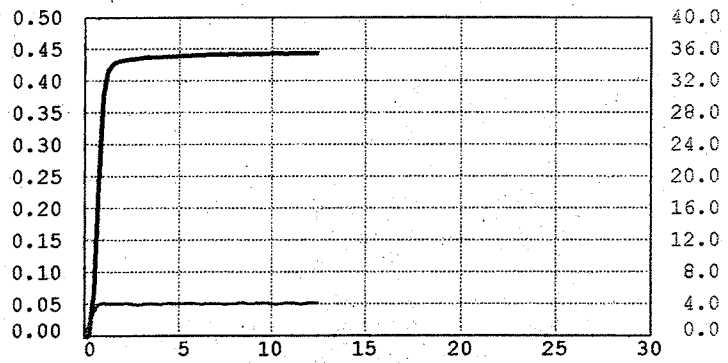
Date: 01/10/2008
Time: 11:26:42

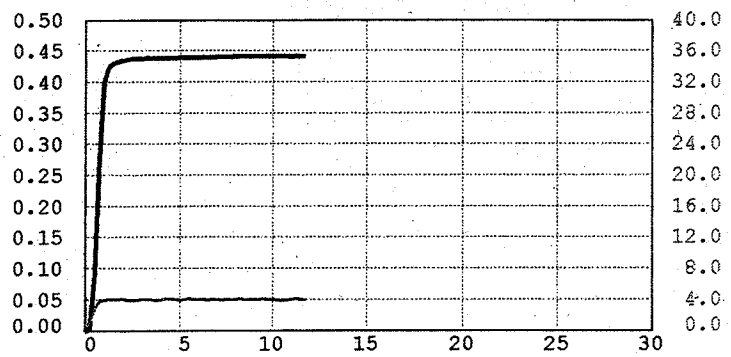
SUPERVISOR NAME: A L B

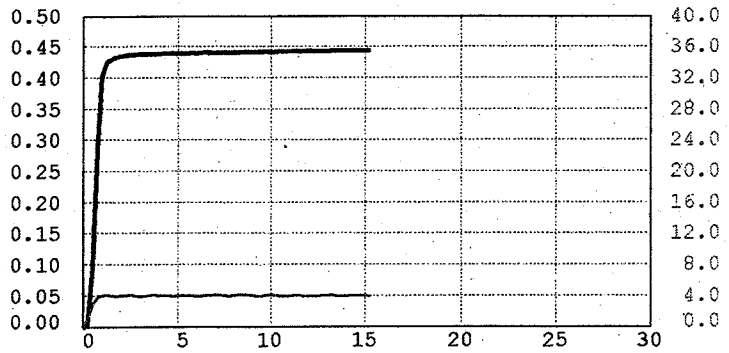
SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

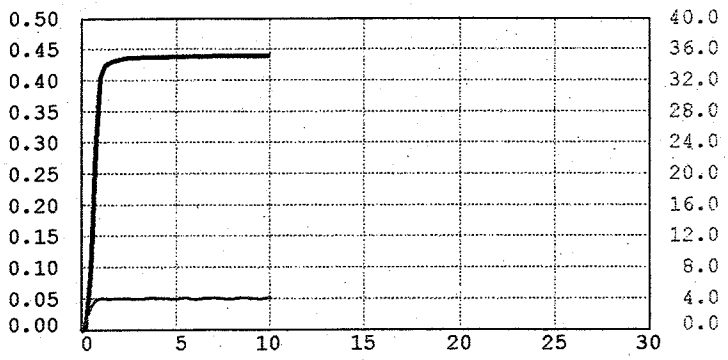
BLANK TEST		0.000	11:27
INTERNAL STANDARD		PASSED	11:27
Xq = 0.1342	(0.07%)		
SIMULATOR VAPOR (34.2°C)		0.435	11:28
X[1] = 0.4355	(-0.0015)	(0.0021)	
SIMULATOR VAPOR (34.1°C)		0.433	11:29
X[1] = 0.4338	(-0.0017)	(0.0017)	
SIMULATOR VAPOR (34.2°C)		0.434	11:30
X[1] = 0.4344	(-0.0021)	(0.0017)	
SIMULATOR VAPOR (34.1°C)		0.431	11:31
X[1] = 0.4318	(-0.0012)	(0.0015)	
SIMULATOR VAPOR (34.1°C)		0.432	11:32
X[1] = 0.4326	(-0.0026)	(0.0016)	
BLANK TEST		0.000	11:33

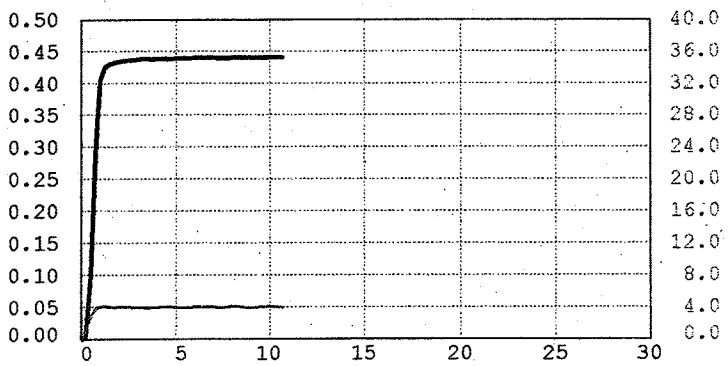
Average = 0.4330
Std Dev = 0.0016











ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

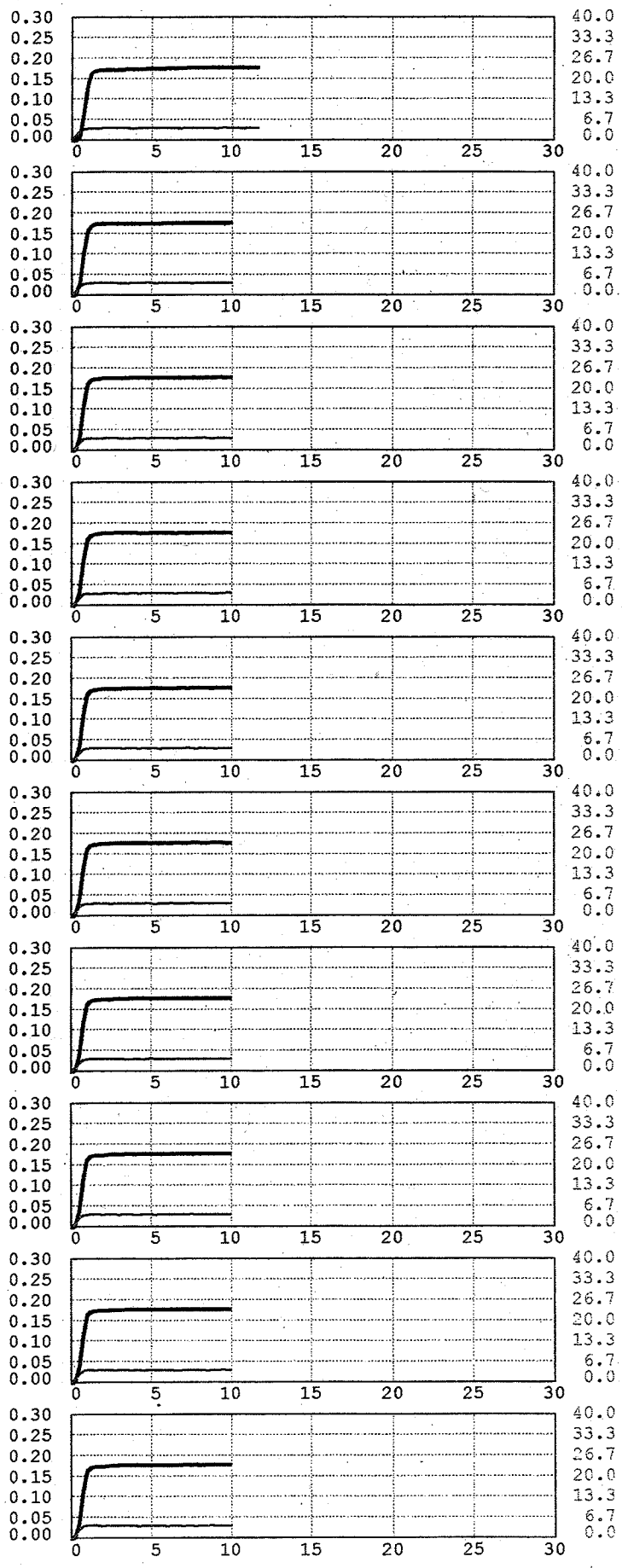
Date: 01/10/2008
Time: 13:37:43

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST		0.000	13:38
INTERNAL STANDARD		PASSED	13:38
Xq = 0.1341 (0.00%)			
SIMULATOR VAPOR (34.0°C)		0.170	13:39
X[1] = 0.1705	(-0.0013)	(0.0000)	
SIMULATOR VAPOR (34.1°C)		0.170	13:40
X[1] = 0.1701	(-0.0027)	(-0.0016)	
SIMULATOR VAPOR (34.1°C)		0.171	13:41
X[1] = 0.1715	(-0.0014)	(-0.0010)	
SIMULATOR VAPOR (34.1°C)		0.170	13:42
X[1] = 0.1709	(-0.0016)	(-0.0008)	
SIMULATOR VAPOR (34.1°C)		0.170	13:43
X[1] = 0.1708	(-0.0022)	(-0.0015)	
SIMULATOR VAPOR (34.0°C)		0.172	13:44
X[1] = 0.1720	(-0.0012)	(-0.0005)	
SIMULATOR VAPOR (34.0°C)		0.171	13:45
X[1] = 0.1711	(-0.0023)	(-0.0009)	
SIMULATOR VAPOR (34.0°C)		0.171	13:46
X[1] = 0.1715	(-0.0022)	(-0.0008)	
SIMULATOR VAPOR (34.1°C)		0.171	13:47
X[1] = 0.1711	(-0.0023)	(-0.0005)	
SIMULATOR VAPOR (34.1°C)		0.171	13:48
X[1] = 0.1718	(-0.0007)	(-0.0002)	
BLANK TEST		0.000	13:48

Average = 0.1707
Std Dev = 0.0007



04/30/2008 10:06

5-40

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

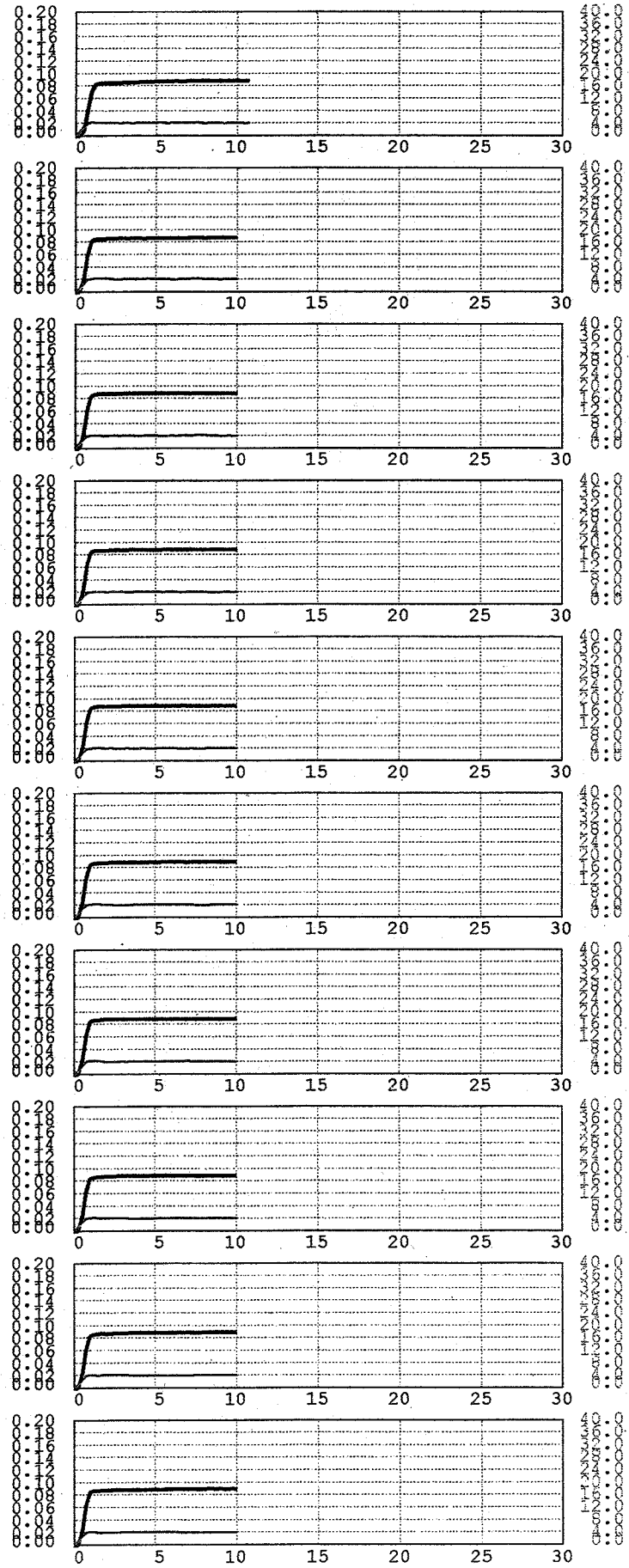
Date: 01/10/2008
Time: 13:53:38

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST		0.000	13:54
INTERNAL STANDARD		PASSED	13:54
Xq = 0.1348 (0.47%)			
SIMULATOR VAPOR	(34.0°C)	0.087	13:55
X[1] = 0.0878	(-0.0010)	(0.0001)	
SIMULATOR VAPOR	(34.0°C)	0.086	13:55
X[1] = 0.0868	(-0.0022)	(-0.0012)	
SIMULATOR VAPOR	(33.9°C)	0.088	13:56
X[1] = 0.0880	(-0.0016)	(-0.0009)	
SIMULATOR VAPOR	(34.0°C)	0.087	13:57
X[1] = 0.0879	(-0.0019)	(0.0000)	
SIMULATOR VAPOR	(34.0°C)	0.087	13:58
X[1] = 0.0878	(-0.0023)	(-0.0014)	
SIMULATOR VAPOR	(34.0°C)	0.089	13:59
X[1] = 0.0892	(-0.0008)	(-0.0011)	
SIMULATOR VAPOR	(34.0°C)	0.088	14:00
X[1] = 0.0885	(-0.0014)	(-0.0001)	
SIMULATOR VAPOR	(34.0°C)	0.088	14:01
X[1] = 0.0882	(-0.0017)	(0.0002)	
SIMULATOR VAPOR	(34.1°C)	0.088	14:02
X[1] = 0.0887	(-0.0022)	(-0.0008)	
SIMULATOR VAPOR	(34.0°C)	0.089	14:03
X[1] = 0.0893	(-0.0005)	(0.0000)	
BLANK TEST		0.000	14:04

Average = 0.0877
Std Dev = 0.0009



ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

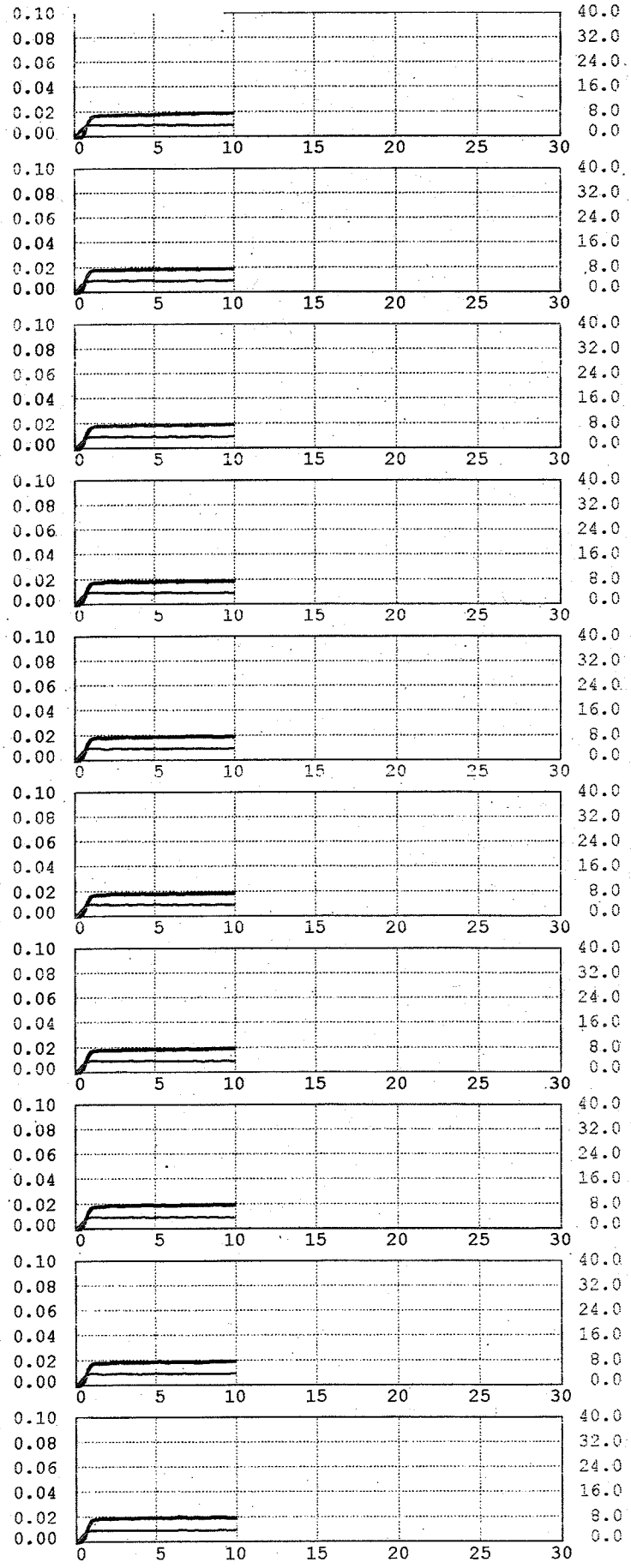
Date: 01/15/2008
Time: 14:04:07

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-15-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST		0.000	14:05
INTERNAL STANDARD		PASSED	14:05
Xq = 0.1244 (0.43%)			
SIMULATOR VAPOR (34.0°C)		0.019	14:05
X[1] = 0.0193	(-0.0010)	(0.0003)	
SIMULATOR VAPOR (33.9°C)		0.019	14:06
X[1] = 0.0194	(-0.0009)	(0.0006)	
SIMULATOR VAPOR (34.0°C)		0.019	14:07
X[1] = 0.0194	(-0.0009)	(0.0001)	
SIMULATOR VAPOR (34.0°C)		0.019	14:08
X[1] = 0.0194	(-0.0009)	(0.0003)	
SIMULATOR VAPOR (34.0°C)		0.019	14:09
X[1] = 0.0196	(-0.0007)	(0.0004)	
SIMULATOR VAPOR (34.0°C)		0.019	14:10
X[1] = 0.0190	(-0.0011)	(-0.0003)	
SIMULATOR VAPOR (34.0°C)		0.019	14:11
X[1] = 0.0197	(-0.0005)	(-0.0002)	
SIMULATOR VAPOR (34.0°C)		0.019	14:12
X[1] = 0.0195	(-0.0013)	(-0.0001)	
SIMULATOR VAPOR (33.9°C)		0.019	14:13
X[1] = 0.0197	(-0.0007)	(0.0002)	
SIMULATOR VAPOR (33.9°C)		0.019	14:14
X[1] = 0.0197	(-0.0008)	(-0.0003)	
BLANK TEST		0.000	14:15

Average = 0.0190
Std Dev = 0.0000



05/01/2008 11:44

5-42

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

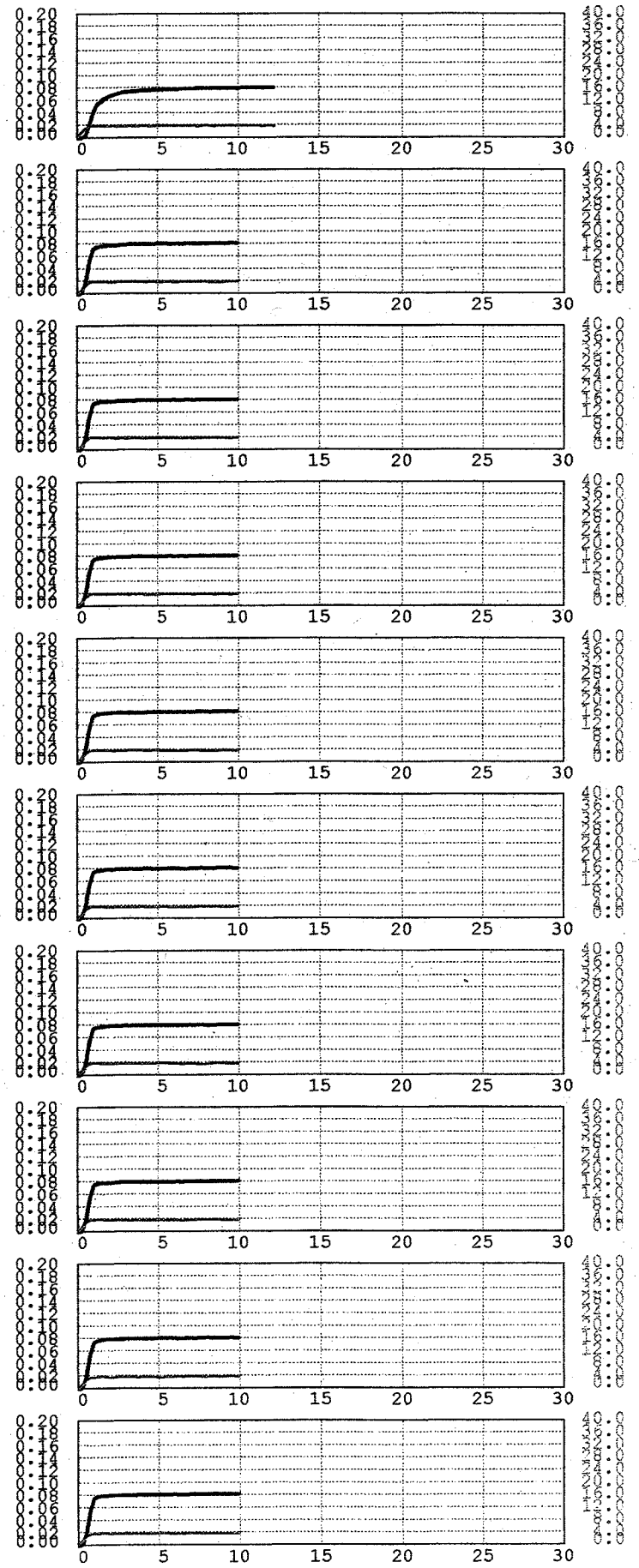
Date: 01/15/2008
Time: 14:22:33

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST		0.000	14:23
INTERNAL STANDARD		PASSED	14:23
Xq = 0.1237 (0.07%)			
SIMULATOR VAPOR (34.0°C)		0.080	14:23
X[1] = 0.0800	(-0.0002)	(0.0012)	
SIMULATOR VAPOR (34.0°C)		0.080	14:24
X[1] = 0.0806	(-0.0004)	(-0.0003)	
SIMULATOR VAPOR (34.0°C)		0.080	14:25
X[1] = 0.0804	(-0.0004)	(0.0001)	
SIMULATOR VAPOR (34.0°C)		0.080	14:26
X[1] = 0.0804	(-0.0010)	(-0.0003)	
SIMULATOR VAPOR (34.0°C)		0.080	14:27
X[1] = 0.0809	(-0.0002)	(-0.0001)	
SIMULATOR VAPOR (34.0°C)		0.080	14:28
X[1] = 0.0809	(0.0004)	(0.0001)	
SIMULATOR VAPOR (34.0°C)		0.080	14:29
X[1] = 0.0804	(-0.0009)	(0.0005)	
SIMULATOR VAPOR (34.0°C)		0.080	14:30
X[1] = 0.0808	(0.0000)	(-0.0005)	
SIMULATOR VAPOR (34.0°C)		0.080	14:31
X[1] = 0.0807	(-0.0006)	(0.0001)	
SIMULATOR VAPOR (34.1°C)		0.080	14:32
X[1] = 0.0809	(-0.0002)	(-0.0003)	
BLANK TEST		0.000	14:33

Average = 0.0800
Std Dev = 0.0000



05/01/2008 11:45

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

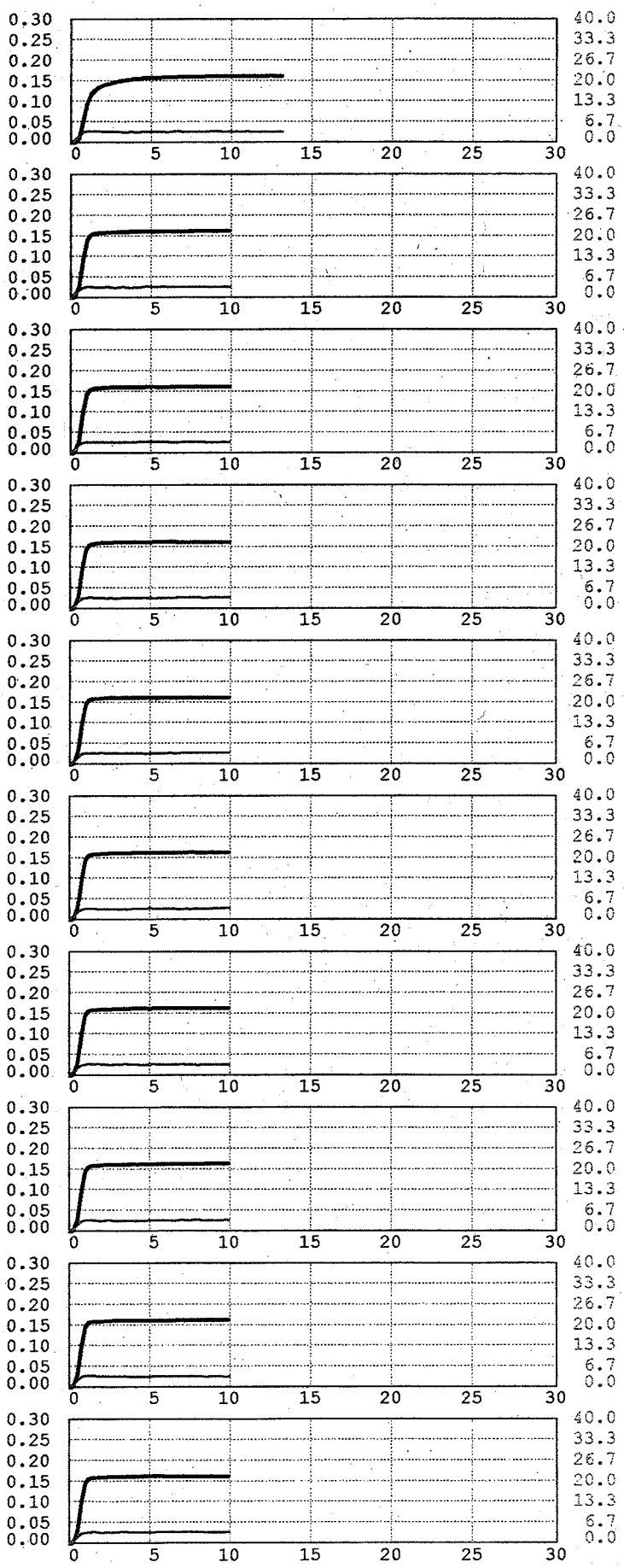
Date: 01/15/2008
Time: 14:36:15

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-08-160
SOLUTION CONCENTRATION: 0.162

BLANK TEST		0.000	14:37
INTERNAL STANDARD		PASSED	14:37
Xq = 0.1243 (0.36%)			
SIMULATOR VAPOR (34.0°C)		0.158	14:37
X[1] = 0.1589 (0.0004)	(0.0019)		
SIMULATOR VAPOR (34.0°C)		0.159	14:38
X[1] = 0.1591 (0.0008)	(0.0005)		
SIMULATOR VAPOR (34.0°C)		0.156	14:39
X[1] = 0.1564 (0.0001)	(0.0009)		
SIMULATOR VAPOR (34.0°C)		0.156	14:40
X[1] = 0.1568 (0.0002)	(0.0007)		
SIMULATOR VAPOR (34.0°C)		0.157	14:41
X[1] = 0.1570 (0.0003)	(0.0008)		
SIMULATOR VAPOR (34.0°C)		0.157	14:42
X[1] = 0.1577 (0.0008)	(0.0013)		
SIMULATOR VAPOR (34.0°C)		0.160	14:43
X[1] = 0.1601 (-0.0003)	(0.0005)		
SIMULATOR VAPOR (34.0°C)		0.160	14:44
X[1] = 0.1605 (0.0011)	(0.0012)		
SIMULATOR VAPOR (34.1°C)		0.159	14:45
X[1] = 0.1598 (-0.0007)	(0.0010)		
SIMULATOR VAPOR (34.1°C)		0.157	14:46
X[1] = 0.1574 (-0.0002)	(0.0009)		
BLANK TEST		0.000	14:47

Average = 0.1579
Std Dev = 0.0015



05/01/2008 11:46

5-44

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

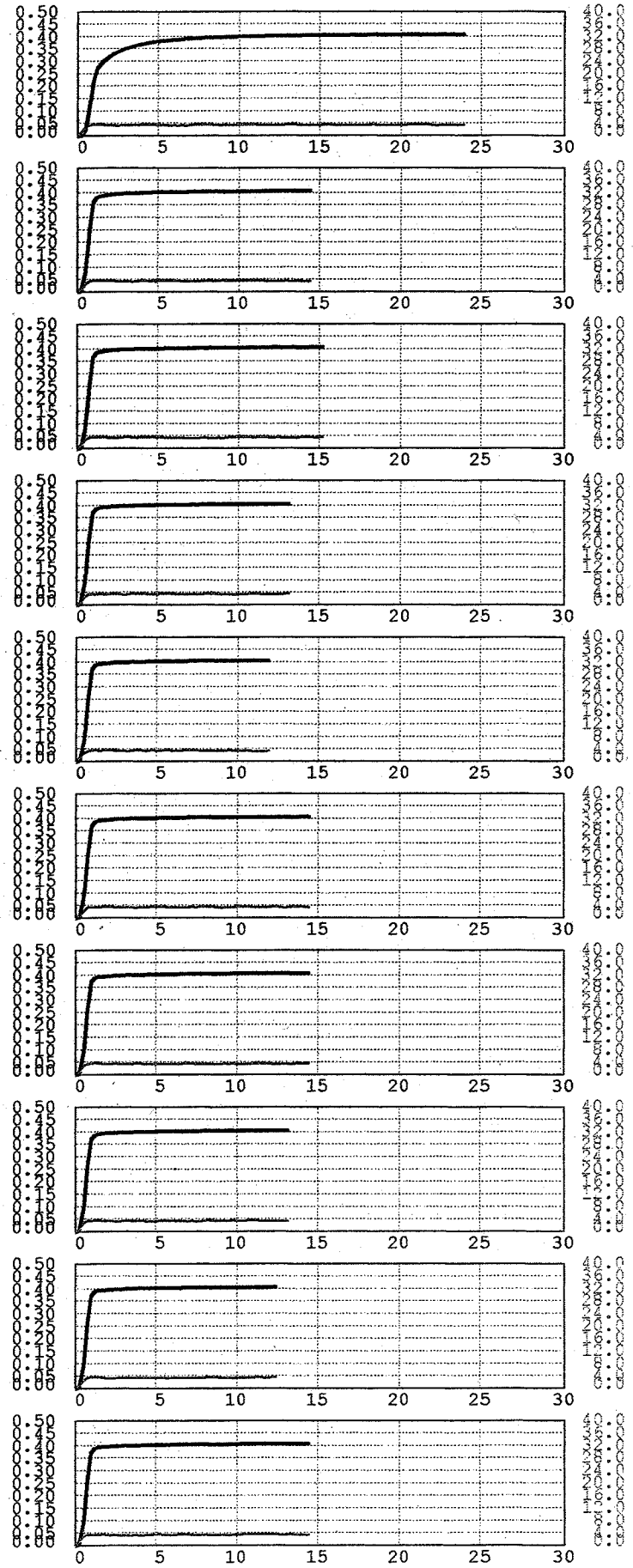
Date: 01/15/2008
Time: 15:01:47

SUPERVISOR NAME: A L B

SOLUTION LOT #: 07-12-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST		0.000	15:02
INTERNAL STANDARD		PASSED	15:02
Xq = 0.1240 (0.14%)			
SIMULATOR VAPOR (34.1°C)		0.400	15:03
X[1] = 0.4008	(0.0059)	(0.0048)	
SIMULATOR VAPOR (34.1°C)		0.399	15:04
X[1] = 0.3993	(0.0051)	(0.0030)	
SIMULATOR VAPOR (34.1°C)		0.398	15:05
X[1] = 0.3987	(0.0047)	(0.0030)	
SIMULATOR VAPOR (34.1°C)		0.399	15:06
X[1] = 0.3996	(0.0043)	(0.0033)	
SIMULATOR VAPOR (34.2°C)		0.399	15:07
X[1] = 0.3994	(0.0046)	(0.0031)	
SIMULATOR VAPOR (34.1°C)		0.398	15:08
X[1] = 0.3989	(0.0046)	(0.0023)	
SIMULATOR VAPOR (34.1°C)		0.399	15:09
X[1] = 0.3993	(0.0052)	(0.0027)	
SIMULATOR VAPOR (34.1°C)		0.399	15:10
X[1] = 0.3991	(0.0049)	(0.0026)	
SIMULATOR VAPOR (34.1°C)		0.399	15:11
X[1] = 0.3999	(0.0051)	(0.0035)	
SIMULATOR VAPOR (34.1°C)		0.400	15:12
X[1] = 0.4008	(0.0054)	(0.0031)	
BLANK TEST		0.000	15:13

Average = 0.3990
Std Dev = 0.0007



DIAGNOSTIC RESULT

DataMaster DMT: 102606
Location:
Calibration Date:
Certification Date: 01/29/2008
Installation Date: 01/29/2008
Test Date: 03/05/2008
Time: 09:35

VERMONT
DEPARTMENT OF HEALTH

VERSIONS
DMT 0.29
PIC 2.05
Modem 1.00
Questions 1.00
Reports 0.03

TEMPERATURES
Sample Chamber = 48.86°C
Breath Tube = 48.08°C
Digital Sim = 34.0°C

SETTINGS
Lamp Voltage = 2.25 V
Cooler Voltage = 2.20 V
Bias Voltage = 120.1 V
Chopper Freq = 551.7 Hz

PUMP INFO
Flow Rate = 3.926 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0821	0.0825
MIN(V)	0.0795	0.0805

FILTER INFO
Filter 1 0.081 Zero = true
Filter 2 0.447 Zero = true
Filter 3 0.081 Zero = true

INTERNAL STANDARD
Xq = 0.1126 0.23%

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

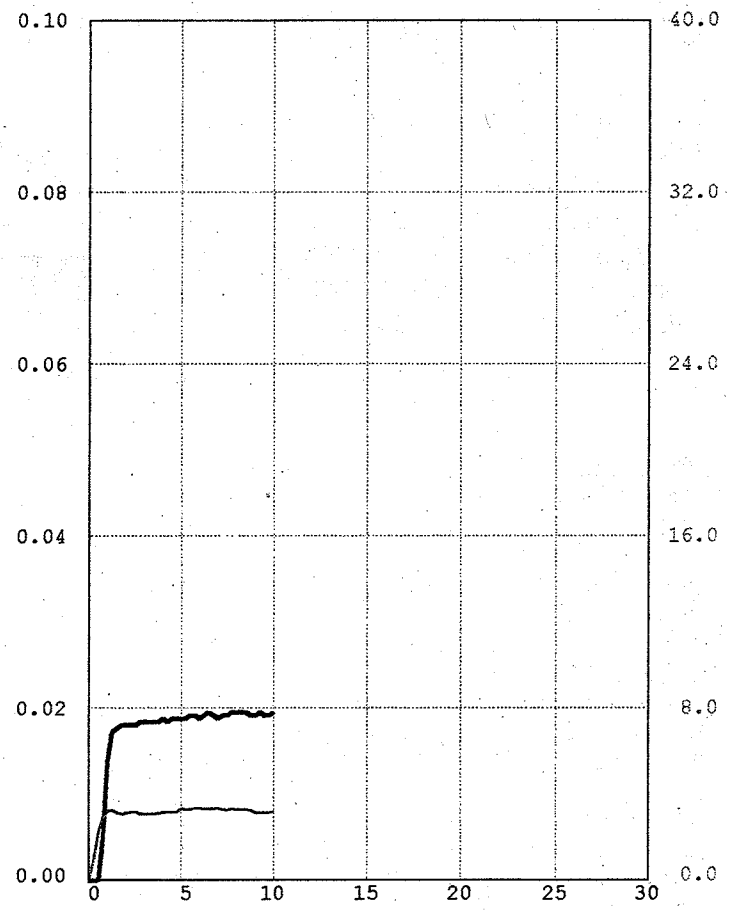
Date: 03/05/2008
Time: 09:38:46

SUPERVISOR NAME: ALB 04 MEOH

SOLUTION LOT #: 08-12-040
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	09:39
INTERNAL STANDARD	PASSED	09:39
Xq = 0.1120 (0.32%)		
SIMULATOR VAPOR	INTERFERENCE	09:40
X[1] = 0.0195 (-0.0062) (-0.0044)		

STANDARD OUT OF RANGE



05/01/2008 11:50

5-47

ACCURACY AND PRECISION TEST

STATE OF VERMONT

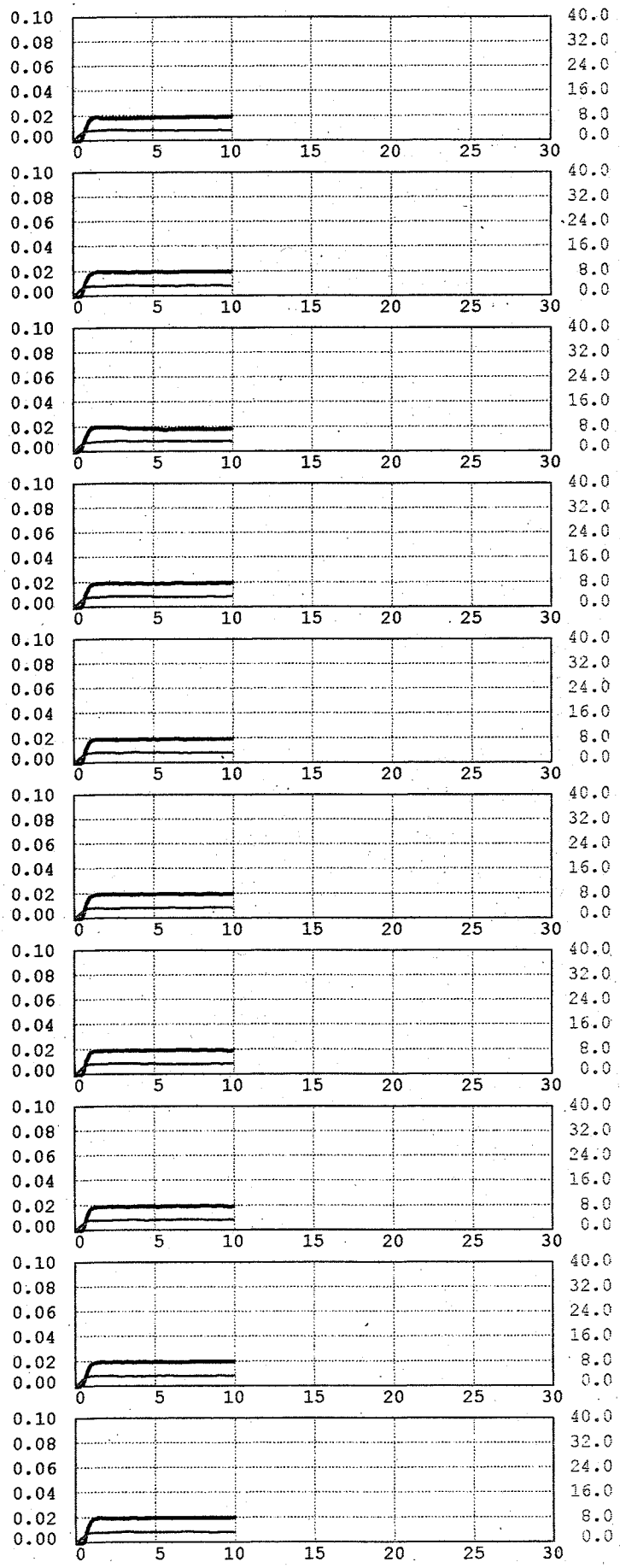
DataMaster DMT: 102606

Date: 03/05/2008
Time: 09:40:51

SUPERVISOR NAME: ALB 04 MEOH

SOLUTION LOT #: 08-12-040
SOLUTION CONCENTRATION: 0.040

BLANK TEST		0.000	09:41
INTERNAL STANDARD		PASSED	09:41
Xq = 0.1114 (0.79%)			
SIMULATOR VAPOR	INTERFERENCE		09:42
X[1] = 0.0194	(-0.0071)	(-0.0046)	
SIMULATOR VAPOR	INTERFERENCE		09:43
X[1] = 0.0198	(-0.0061)	(-0.0046)	
SIMULATOR VAPOR	INTERFERENCE		09:44
X[1] = 0.0202	(-0.0061)	(-0.0051)	
SIMULATOR VAPOR	INTERFERENCE		09:45
X[1] = 0.0198	(-0.0060)	(-0.0049)	
SIMULATOR VAPOR	INTERFERENCE		09:46
X[1] = 0.0193	(-0.0067)	(-0.0052)	
SIMULATOR VAPOR	INTERFERENCE		09:47
X[1] = 0.0197	(-0.0063)	(-0.0045)	
SIMULATOR VAPOR	INTERFERENCE		09:48
X[1] = 0.0195	(-0.0066)	(-0.0053)	
SIMULATOR VAPOR	INTERFERENCE		09:49
X[1] = 0.0193	(-0.0060)	(-0.0047)	
SIMULATOR VAPOR	INTERFERENCE		09:50
X[1] = 0.0201	(-0.0060)	(-0.0048)	
SIMULATOR VAPOR	INTERFERENCE		09:51
X[1] = 0.0197	(-0.0060)	(-0.0050)	
BLANK TEST		0.000	09:51



05/01/2008 11:53

5-48

ACCURACY AND PRECISION TEST

STATE OF VERMONT

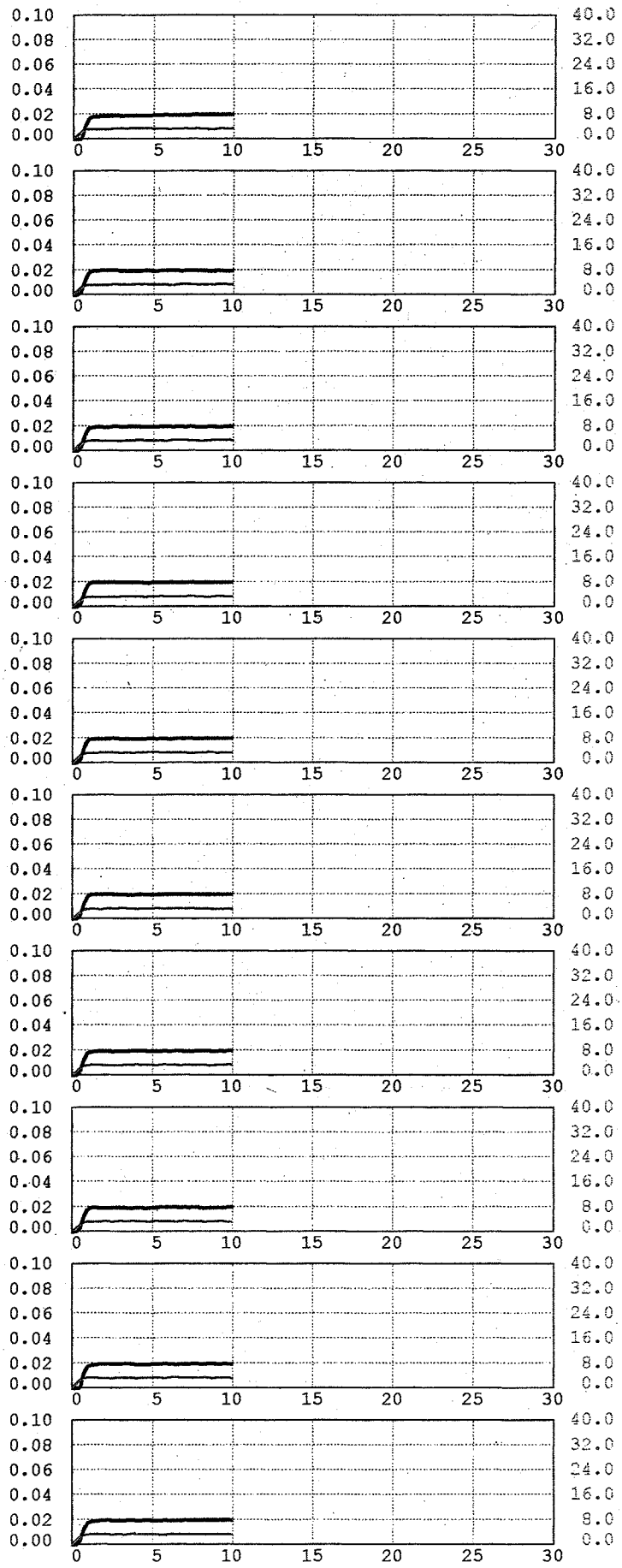
DataMaster DMT: 102606

Date: 03/05/2008
Time: 09:53:20

SUPERVISOR NAME: DMR 04 METHANOL

SOLUTION LOT #: 08-12-04
SOLUTION CONCENTRATION: 0.040

BLANK TEST		0.000	09:54
INTERNAL STANDARD		PASSED	09:54
Xq = 0.1114 (0.79%)			
SIMULATOR VAPOR	INTERFERENCE		09:54
X[1] = 0.0189	(-0.0070)	(-0.0050)	
SIMULATOR VAPOR	INTERFERENCE		09:55
X[1] = 0.0191	(-0.0063)	(-0.0049)	
SIMULATOR VAPOR	INTERFERENCE		09:56
X[1] = 0.0193	(-0.0054)	(-0.0055)	
SIMULATOR VAPOR	INTERFERENCE		09:57
X[1] = 0.0199	(-0.0060)	(-0.0048)	
SIMULATOR VAPOR	INTERFERENCE		09:58
X[1] = 0.0196	(-0.0061)	(-0.0049)	
SIMULATOR VAPOR	INTERFERENCE		09:59
X[1] = 0.0197	(-0.0058)	(-0.0045)	
SIMULATOR VAPOR	INTERFERENCE		10:00
X[1] = 0.0191	(-0.0060)	(-0.0057)	
SIMULATOR VAPOR	INTERFERENCE		10:01
X[1] = 0.0190	(-0.0070)	(-0.0050)	
SIMULATOR VAPOR	INTERFERENCE		10:02
X[1] = 0.0189	(-0.0061)	(-0.0057)	
SIMULATOR VAPOR	INTERFERENCE		10:03
X[1] = 0.0194	(-0.0068)	(-0.0047)	
BLANK TEST		0.000	10:04



05/01/2008 11:54

5-49

ACCURACY AND PRECISION TEST

STATE OF VERMONT

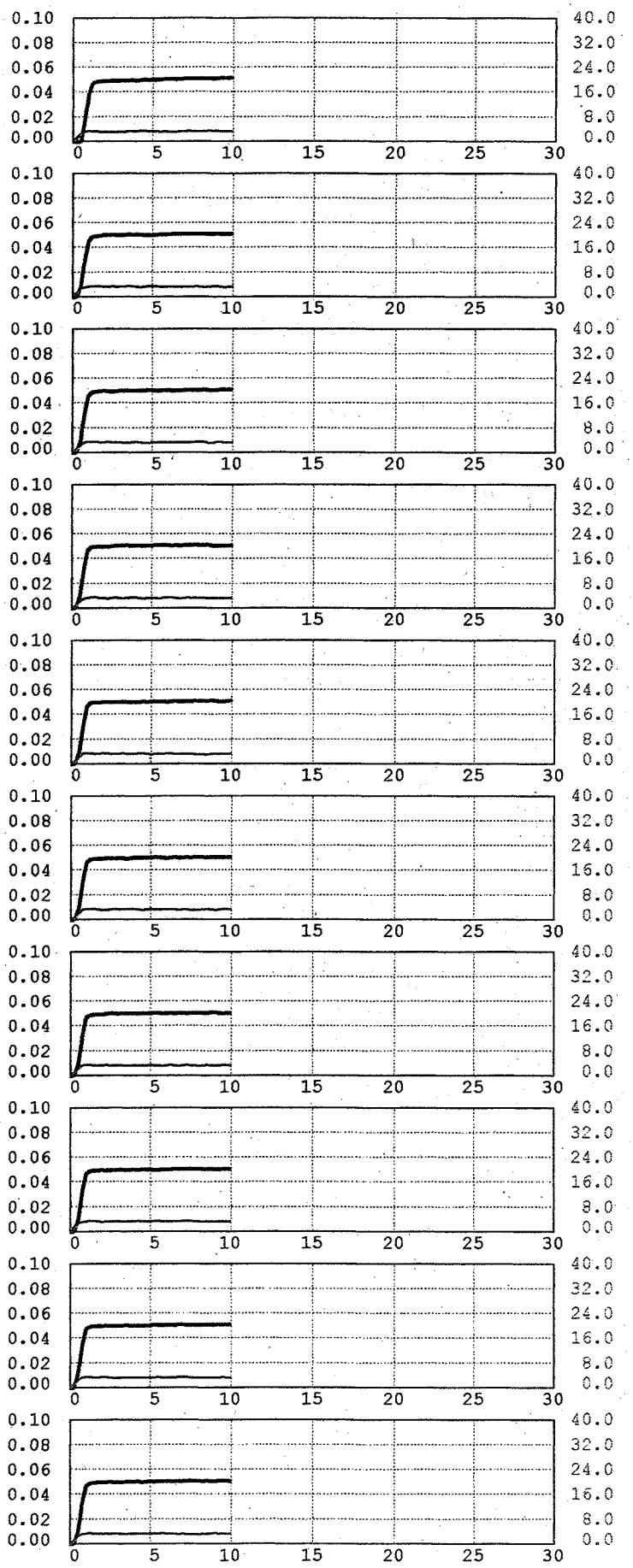
DataMaster DMT: 102606

Date: 03/05/2008
Time: 10:06:35

SUPERVISOR NAME: ALB 02ACETONE 04ETOH

SOLUTION LOT #: 07-14-040
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	10:07
INTERNAL STANDARD	PASSED	10:07
Xq = 0.1125 (0.16%)		
SIMULATOR VAPOR	INTERFERENCE	10:07
X[1] = 0.0503 (-0.0098) (0.0020)		
SIMULATOR VAPOR	INTERFERENCE	10:08
X[1] = 0.0505 (-0.0100) (0.0013)		
SIMULATOR VAPOR	INTERFERENCE	10:09
X[1] = 0.0502 (-0.0105) (0.0018)		
SIMULATOR VAPOR	INTERFERENCE	10:10
X[1] = 0.0502 (-0.0104) (0.0009)		
SIMULATOR VAPOR	INTERFERENCE	10:11
X[1] = 0.0507 (-0.0099) (0.0023)		
SIMULATOR VAPOR	INTERFERENCE	10:12
X[1] = 0.0501 (-0.0105) (0.0021)		
SIMULATOR VAPOR	INTERFERENCE	10:13
X[1] = 0.0501 (-0.0103) (0.0015)		
SIMULATOR VAPOR	INTERFERENCE	10:14
X[1] = 0.0499 (-0.0109) (0.0009)		
SIMULATOR VAPOR	INTERFERENCE	10:15
X[1] = 0.0505 (-0.0099) (0.0014)		
SIMULATOR VAPOR	INTERFERENCE	10:16
X[1] = 0.0501 (-0.0100) (0.0010)		
BLANK TEST	0.000	10:17



05/01/2008 11:55

5-50

ACCURACY AND PRECISION TEST

STATE OF VERMONT

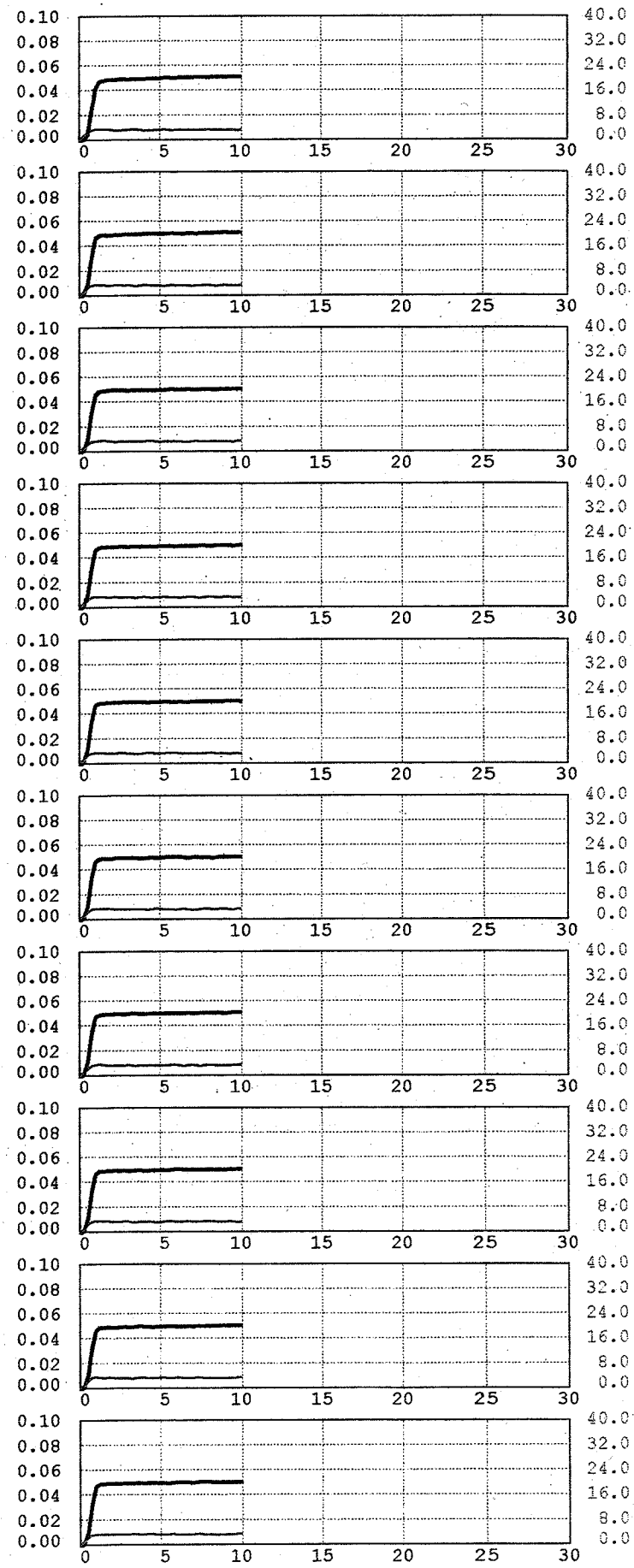
DataMaster DMT: 102606

Date: 03/05/2008
Time: 10:39:02

SUPERVISOR NAME: HXB 0.02ACETONE 0.0427ETOH

SOLUTION LOT #: 07-14-04
SOLUTION CONCENTRATION: 0.042

BLANK TEST	0.000	10:39
INTERNAL STANDARD	PASSED	10:40
Xq = 0.1127 (0.31%)		
SIMULATOR VAPOR	INTERFERENCE	10:40
X[1] = 0.0504 (-0.0097) (0.0020)		
SIMULATOR VAPOR	INTERFERENCE	10:41
X[1] = 0.0503 (-0.0100) (0.0014)		
SIMULATOR VAPOR	INTERFERENCE	10:42
X[1] = 0.0503 (-0.0101) (0.0022)		
SIMULATOR VAPOR	INTERFERENCE	10:43
X[1] = 0.0500 (-0.0101) (0.0009)		
SIMULATOR VAPOR	INTERFERENCE	10:44
X[1] = 0.0503 (-0.0102) (0.0016)		
SIMULATOR VAPOR	INTERFERENCE	10:45
X[1] = 0.0502 (-0.0100) (0.0009)		
SIMULATOR VAPOR	INTERFERENCE	10:46
X[1] = 0.0505 (-0.0101) (0.0008)		
SIMULATOR VAPOR	INTERFERENCE	10:47
X[1] = 0.0501 (-0.0100) (0.0014)		
SIMULATOR VAPOR	INTERFERENCE	10:48
X[1] = 0.0502 (-0.0101) (0.0015)		
SIMULATOR VAPOR	INTERFERENCE	10:49
X[1] = 0.0504 (-0.0100) (0.0009)		
BLANK TEST	0.000	10:50



ACCURACY AND PRECISION TEST

STATE OF VERMONT

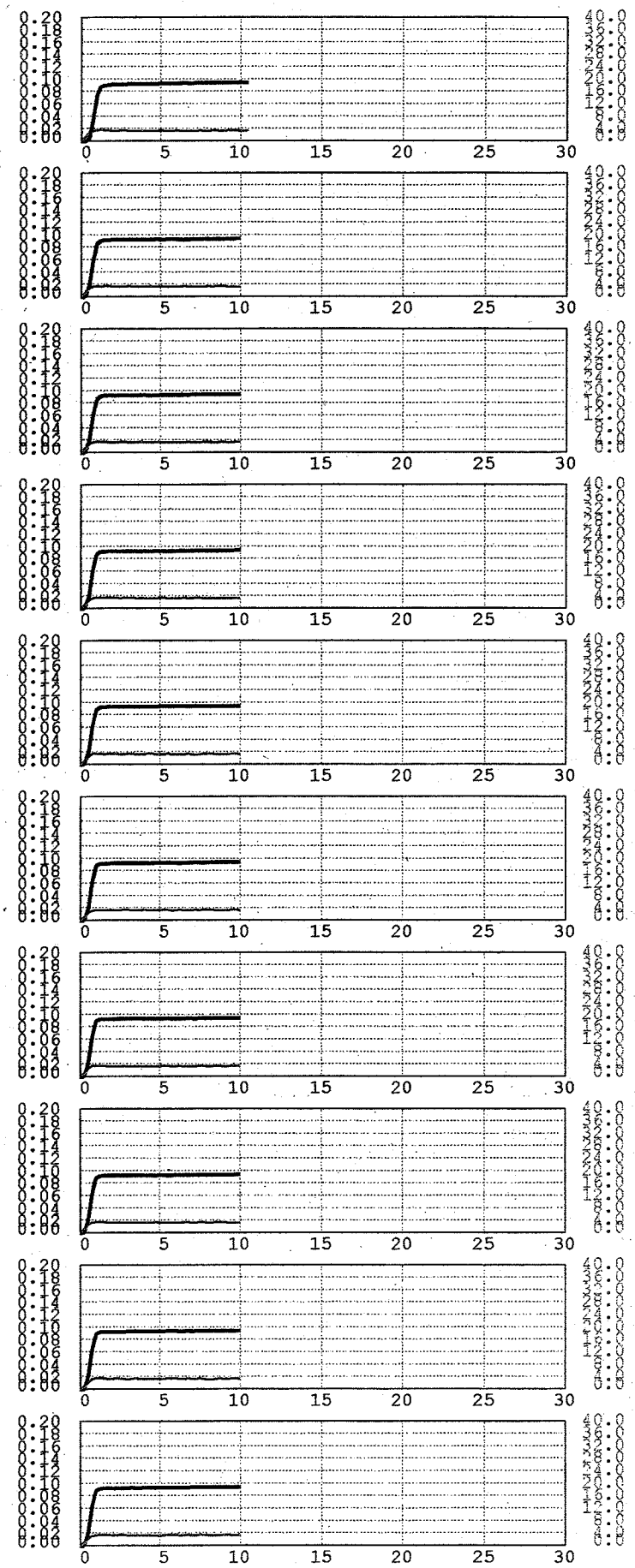
DataMaster DMT: 102606

Date: 03/05/2008
Time: 10:56:28

SUPERVISOR NAME: ALB 02 ACETONE 08ETOH

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.080

BLANK TEST		0.000	10:57
INTERNAL STANDARD		PASSED	10:57
Xq = 0.1126 (0.23%)			
SIMULATOR VAPOR	INTERFERENCE		10:57
X[1] = 0.0931 (-0.0097) (0.0039)			
SIMULATOR VAPOR	INTERFERENCE		10:58
X[1] = 0.0927 (-0.0100) (0.0029)			
SIMULATOR VAPOR	INTERFERENCE		10:59
X[1] = 0.0929 (-0.0107) (0.0029)			
SIMULATOR VAPOR	INTERFERENCE		11:00
X[1] = 0.0926 (-0.0108) (0.0033)			
SIMULATOR VAPOR	INTERFERENCE		11:01
X[1] = 0.0935 (-0.0101) (0.0026)			
SIMULATOR VAPOR	INTERFERENCE		11:02
X[1] = 0.0932 (-0.0106) (0.0020)			
SIMULATOR VAPOR	INTERFERENCE		11:03
X[1] = 0.0933 (-0.0100) (0.0020)			
SIMULATOR VAPOR	INTERFERENCE		11:04
X[1] = 0.0926 (-0.0113) (0.0020)			
SIMULATOR VAPOR	INTERFERENCE		11:05
X[1] = 0.0933 (-0.0100) (0.0027)			
SIMULATOR VAPOR	INTERFERENCE		11:06
X[1] = 0.0929 (-0.0107) (0.0028)			
BLANK TEST		0.000	11:07



05/01/2008 11:56

5-52

ACCURACY AND PRECISION TEST

STATE OF VERMONT

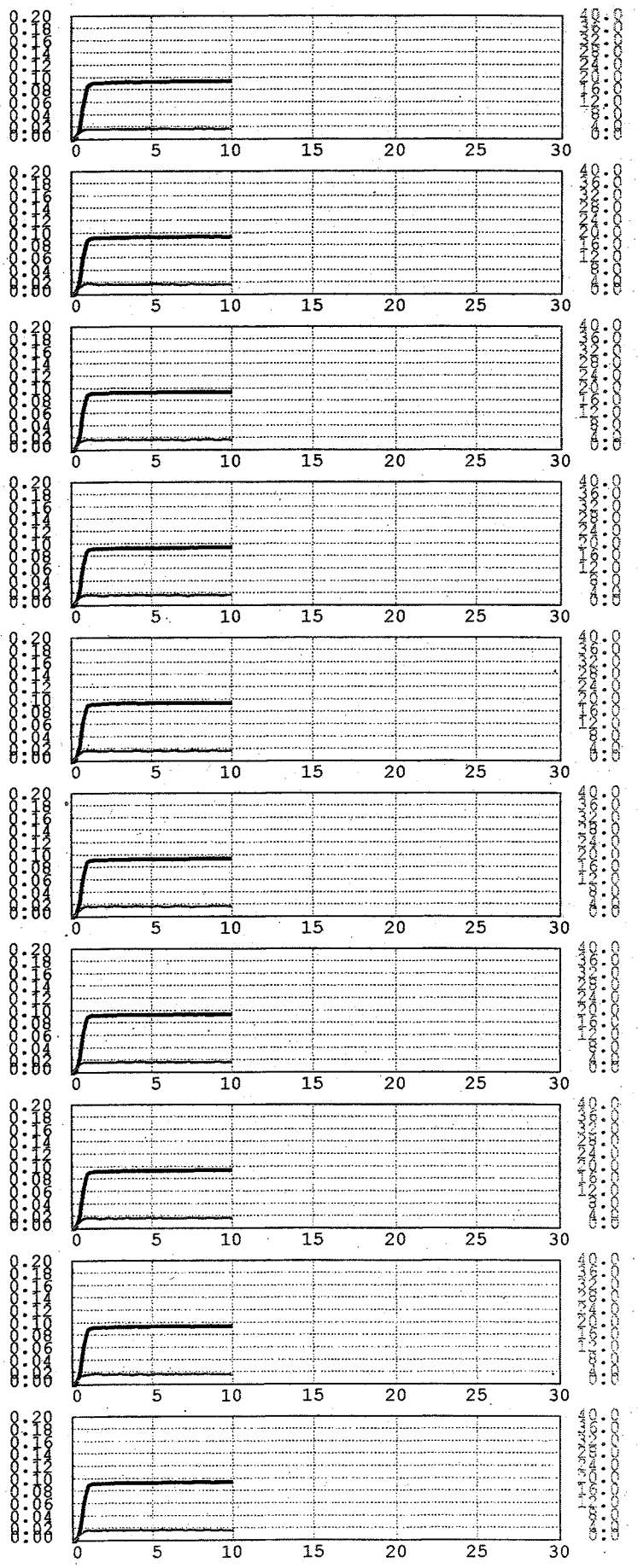
DataMaster DMT: 102606

Date: 03/05/2008
Time: 11:16:25

SUPERVISOR NAME: SEH .02 ACETONE

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST	0.000	11:17
INTERNAL STANDARD	PASSED	11:17
Xq = 0.1122 (0.08%)		
SIMULATOR VAPOR	INTERFERENCE	11:17
X[1] = 0.0934 (-0.0097) (0.0044)		
SIMULATOR VAPOR	INTERFERENCE	11:18
X[1] = 0.0930 (-0.0105) (0.0035)		
SIMULATOR VAPOR	INTERFERENCE	11:19
X[1] = 0.0932 (-0.0103) (0.0029)		
SIMULATOR VAPOR	INTERFERENCE	11:20
X[1] = 0.0932 (-0.0103) (0.0021)		
SIMULATOR VAPOR	INTERFERENCE	11:21
X[1] = 0.0937 (-0.0091) (0.0032)		
SIMULATOR VAPOR	INTERFERENCE	11:22
X[1] = 0.0932 (-0.0105) (0.0036)		
SIMULATOR VAPOR	INTERFERENCE	11:23
X[1] = 0.0930 (-0.0102) (0.0029)		
SIMULATOR VAPOR	INTERFERENCE	11:24
X[1] = 0.0932 (-0.0107) (0.0028)		
SIMULATOR VAPOR	INTERFERENCE	11:25
X[1] = 0.0933 (-0.0097) (0.0032)		
SIMULATOR VAPOR	INTERFERENCE	11:26
X[1] = 0.0929 (-0.0099) (0.0019)		
BLANK TEST	0.000	11:27



DIAGNOSTIC RESULT

DataMaster DMT: 102606
Location:
Calibration Date:
Certification Date: 01/29/2008
Installation Date: 01/29/2008
Test Date: 03/06/2008
Time: 13:28

VERMONT
DEPARTMENT OF HEALTH

VERSIONS
DMT 0.29
PIC 2.05
Modem 1.00
Questions 1.00
Reports 0.03

TEMPERATURES
Sample Chamber = 48.74°C
Breath Tube = 48.08°C
Digital Sim = 34.2°C

SETTINGS
Lamp Voltage = 2.25 V
Cooler Voltage = 2.20 V
Bias Voltage = 120.1 V
Chopper Freq = 548.1 Hz

PUMP INFO
Flow Rate = 4.026 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0602	0.0624
MIN(V)	0.0573	0.0593

FILTER INFO
Filter 1 0.061 Zero = true
Filter 2 0.426 Zero = true
Filter 3 0.059 Zero = true

INTERNAL STANDARD
Xq = 0.1118 0.47%

DIAGNOSTIC RESULT

DataMaster DMT: 102606
Location:
Calibration Date:
Certification Date: 01/29/2008
Installation Date: 01/29/2008
Test Date: 03/07/2008
Time: 09:08

VERMONT
DEPARTMENT OF HEALTH

VERSIONS
DMT 0.29
PIC 2.05
Modem 1.00
Questions 1.00
Reports 0.03

TEMPERATURES
Sample Chamber = 48.91°C
Breath Tube = 48.06°C
Digital Sim = 34.1°C

SETTINGS
Lamp Voltage = 2.25 V
Cooler Voltage = 2.20 V
Bias Voltage = 120.2 V
Chopper Freq = 548.8 Hz

PUMP INFO
Flow Rate = 4.048 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0734	0.0748
MIN(V)	0.0709	0.0719

FILTER INFO
Filter 1 0.073 Zero = true
Filter 2 0.440 Zero = true
Filter 3 0.073 Zero = true

INTERNAL STANDARD
Xq = 0.1108 1.34%

ACCURACY AND PRECISION TEST

STATE OF VERMONT

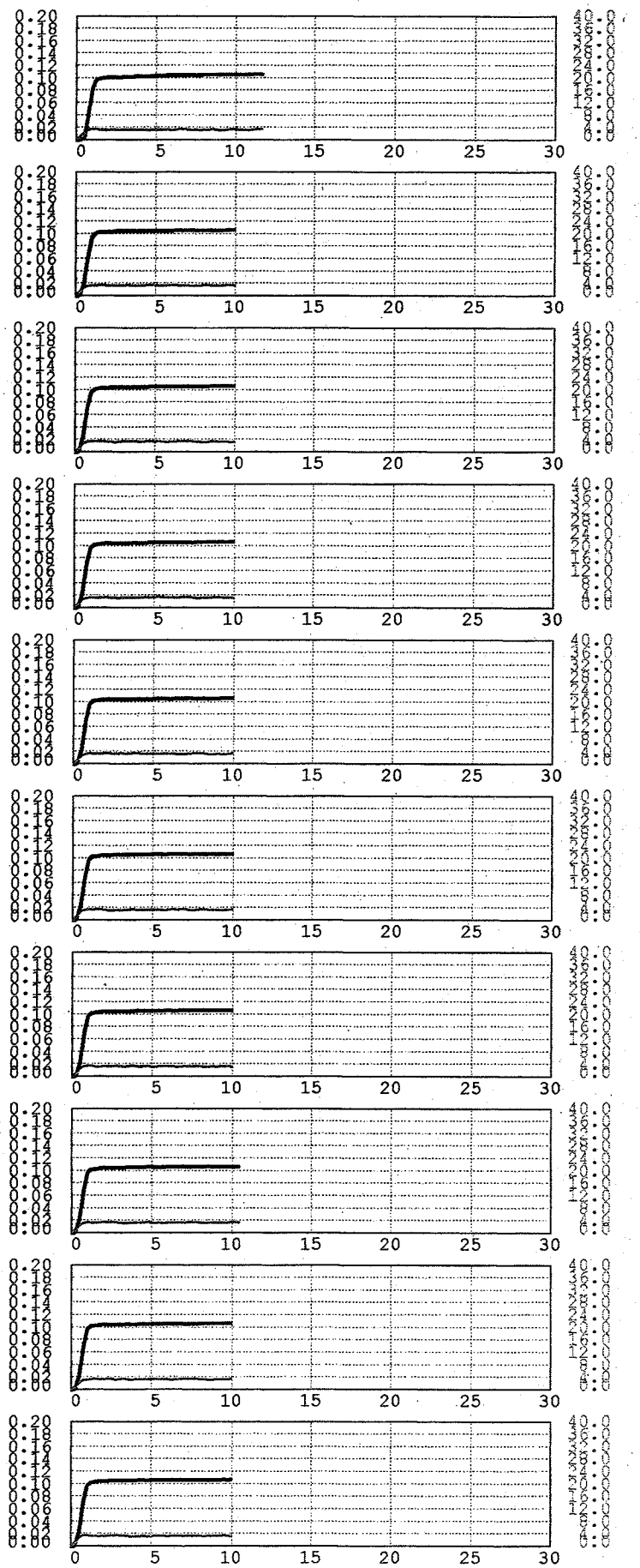
DataMaster DMT: 102606

Date: 03/06/2008
Time: 13:32:45

SUPERVISOR NAME: RJD .04 IPA .08 ETOH

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	13:33
INTERNAL STANDARD	PASSED	13:33
Xq = 0.1114 (0.87%)		
SIMULATOR VAPOR	INTERFERENCE	13:34
X[1] = 0.1047 (-0.0252) (0.0020)		
SIMULATOR VAPOR	INTERFERENCE	13:35
X[1] = 0.1050 (-0.0261) (0.0013)		
SIMULATOR VAPOR	INTERFERENCE	13:36
X[1] = 0.1057 (-0.0256) (0.0023)		
SIMULATOR VAPOR	INTERFERENCE	13:37
X[1] = 0.1057 (-0.0254) (0.0013)		
SIMULATOR VAPOR	INTERFERENCE	13:38
X[1] = 0.1050 (-0.0267) (0.0009)		
SIMULATOR VAPOR	INTERFERENCE	13:39
X[1] = 0.1057 (-0.0257) (0.0007)		
SIMULATOR VAPOR	INTERFERENCE	13:40
X[1] = 0.1051 (-0.0265) (0.0014)		
SIMULATOR VAPOR	INTERFERENCE	13:41
X[1] = 0.1055 (-0.0263) (0.0015)		
SIMULATOR VAPOR	INTERFERENCE	13:42
X[1] = 0.1053 (-0.0262) (0.0008)		
SIMULATOR VAPOR	INTERFERENCE	13:43
X[1] = 0.1059 (-0.0259) (0.0012)		
BLANK TEST	0.000	13:43



05/01/2008 12:03

5-56

ACCURACY AND PRECISION TEST

STATE OF VERMONT

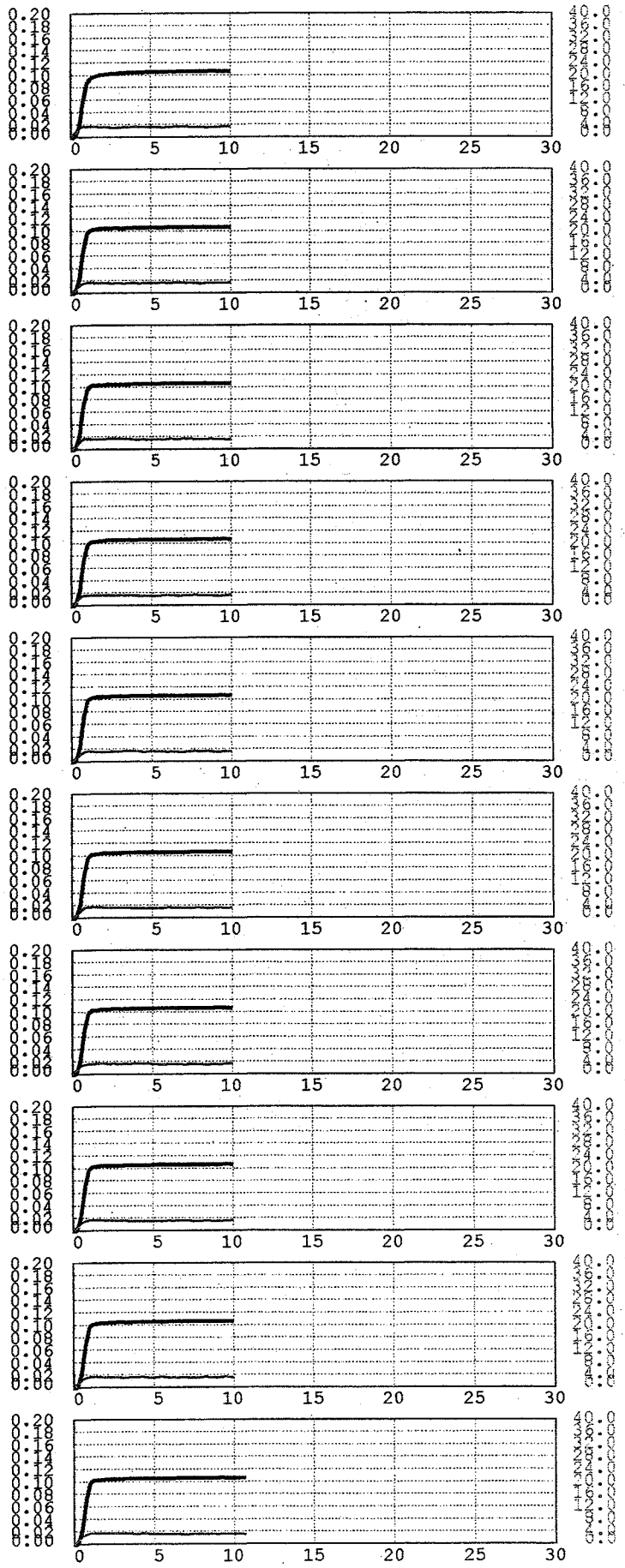
DataMaster DMT: 102606

Date: 03/06/2008
Time: 13:56:09

SUPERVISOR NAME: ALB 04IPA IN 08ETOH

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	13:57
INTERNAL STANDARD	PASSED	13:57
Xq = 0.1115 (0.71%)		
SIMULATOR VAPOR	INTERFERENCE	13:57
X[1] = 0.1057 (-0.0263) (0.0026)		
SIMULATOR VAPOR	INTERFERENCE	13:58
X[1] = 0.1063 (-0.0246) (0.0021)		
SIMULATOR VAPOR	INTERFERENCE	13:59
X[1] = 0.1053 (-0.0266) (0.0015)		
SIMULATOR VAPOR	INTERFERENCE	14:00
X[1] = 0.1065 (-0.0255) (0.0019)		
SIMULATOR VAPOR	INTERFERENCE	14:01
X[1] = 0.1059 (-0.0254) (0.0017)		
SIMULATOR VAPOR	INTERFERENCE	14:02
X[1] = 0.1053 (-0.0265) (0.0017)		
SIMULATOR VAPOR	INTERFERENCE	14:03
X[1] = 0.1059 (-0.0259) (0.0029)		
SIMULATOR VAPOR	INTERFERENCE	14:04
X[1] = 0.1059 (-0.0253) (0.0023)		
SIMULATOR VAPOR	INTERFERENCE	14:05
X[1] = 0.1052 (-0.0262) (0.0017)		
SIMULATOR VAPOR	INTERFERENCE	14:06
X[1] = 0.1056 (-0.0261) (0.0019)		
BLANK TEST	0.000	14:07



ACCURACY AND PRECISION TEST

STATE OF VERMONT

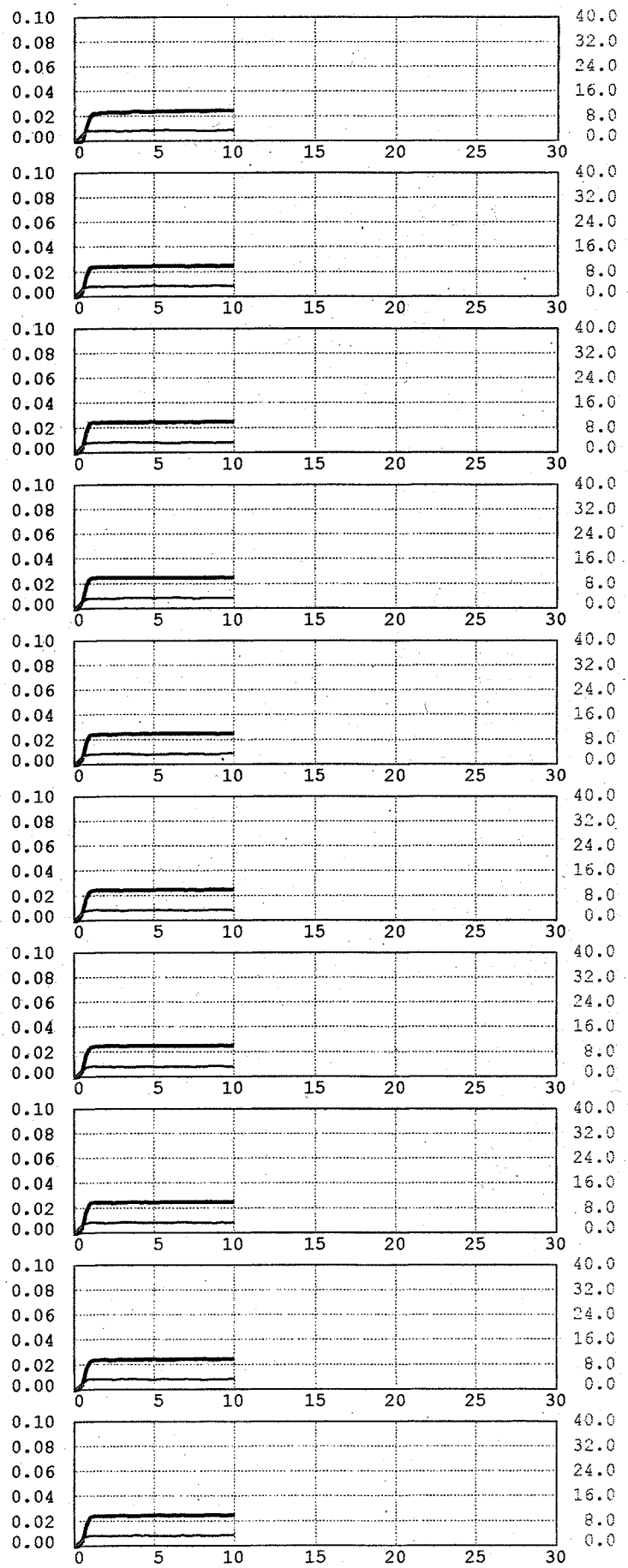
DataMaster DMT: 102606

Date: 03/06/2008
Time: 14:13:21

SUPERVISOR NAME: ALB 04IPA

SOLUTION LOT #: 08-13-040
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	14:14
INTERNAL STANDARD	PASSED	14:14
Xq = 0.1119 (0.39%)		
SIMULATOR VAPOR	INTERFERENCE	14:14
X[1] = 0.0247 (-0.0259) (0.0017)		
SIMULATOR VAPOR	INTERFERENCE	14:15
X[1] = 0.0250 (-0.0265) (0.0021)		
SIMULATOR VAPOR	INTERFERENCE	14:16
X[1] = 0.0254 (-0.0283) (0.0013)		
SIMULATOR VAPOR	INTERFERENCE	14:17
X[1] = 0.0250 (-0.0268) (0.0017)		
SIMULATOR VAPOR	INTERFERENCE	14:18
X[1] = 0.0246 (-0.0279) (0.0022)		
SIMULATOR VAPOR	INTERFERENCE	14:19
X[1] = 0.0248 (-0.0273) (0.0012)		
SIMULATOR VAPOR	INTERFERENCE	14:20
X[1] = 0.0256 (-0.0270) (0.0014)		
SIMULATOR VAPOR	INTERFERENCE	14:21
X[1] = 0.0254 (-0.0273) (0.0017)		
SIMULATOR VAPOR	INTERFERENCE	14:22
X[1] = 0.0243 (-0.0287) (0.0012)		
SIMULATOR VAPOR	INTERFERENCE	14:23
X[1] = 0.0246 (-0.0276) (0.0014)		
BLANK TEST	0.000	14:24



05/01/2008 12:05

5-58

ACCURACY AND PRECISION TEST

STATE OF VERMONT

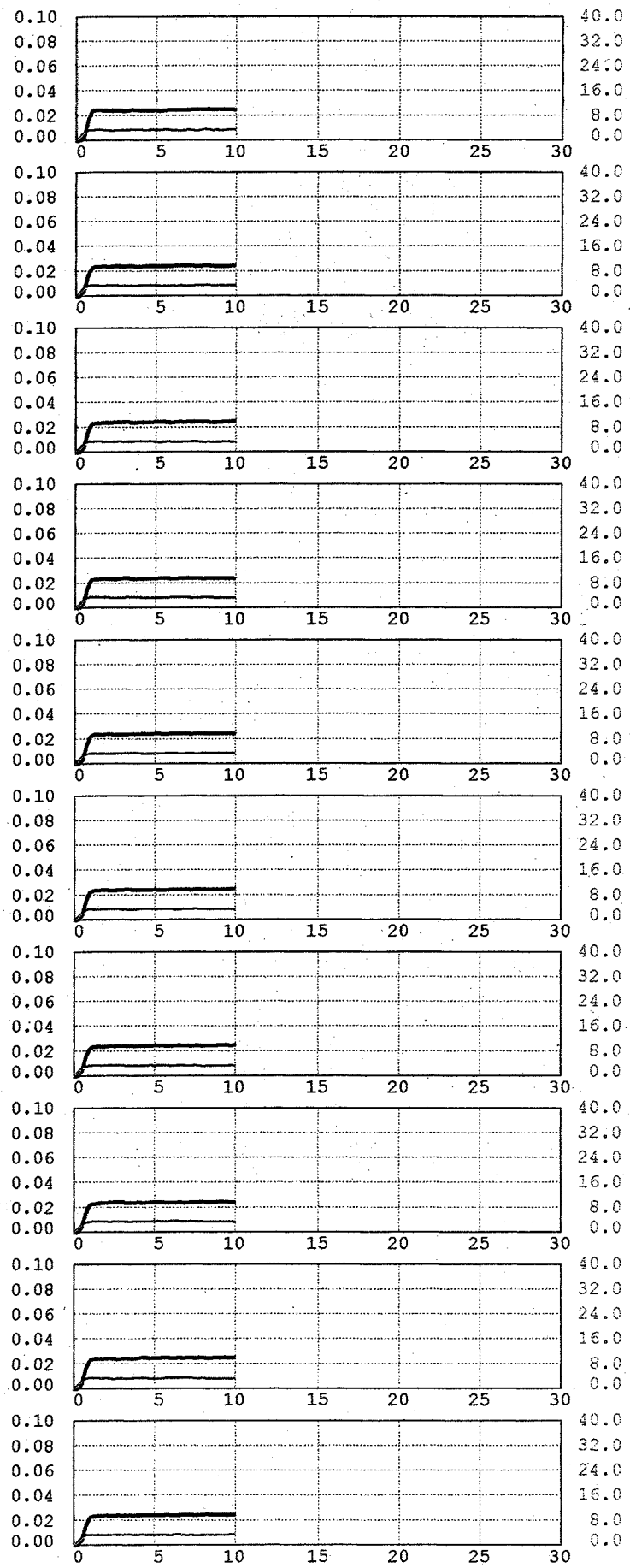
DataMaster DMT: 102606

Date: 03/06/2008
Time: 15:43:21

SUPERVISOR NAME: DMR 04 IPA

SOLUTION LOT #: 08-13-04
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	15:44
INTERNAL STANDARD	PASSED	15:44
Xq = 0.1120 (0.32%)		
SIMULATOR VAPOR	INTERFERENCE	15:44
X[1] = 0.0250 (-0.0278) (0.0025)		
SIMULATOR VAPOR	INTERFERENCE	15:45
X[1] = 0.0243 (-0.0275) (0.0016)		
SIMULATOR VAPOR	INTERFERENCE	15:46
X[1] = 0.0252 (-0.0278) (0.0009)		
SIMULATOR VAPOR	INTERFERENCE	15:47
X[1] = 0.0246 (-0.0284) (0.0008)		
SIMULATOR VAPOR	INTERFERENCE	15:48
X[1] = 0.0245 (-0.0276) (0.0014)		
SIMULATOR VAPOR	INTERFERENCE	15:49
X[1] = 0.0247 (-0.0282) (0.0016)		
SIMULATOR VAPOR	INTERFERENCE	15:50
X[1] = 0.0250 (-0.0285) (0.0013)		
SIMULATOR VAPOR	INTERFERENCE	15:51
X[1] = 0.0246 (-0.0280) (0.0013)		
SIMULATOR VAPOR	INTERFERENCE	15:52
X[1] = 0.0251 (-0.0281) (0.0014)		
SIMULATOR VAPOR	INTERFERENCE	15:53
X[1] = 0.0251 (-0.0279) (0.0009)		
BLANK TEST	0.000	15:54



05/01/2008 12:06

5-59

ACCURACY AND PRECISION TEST

STATE OF VERMONT

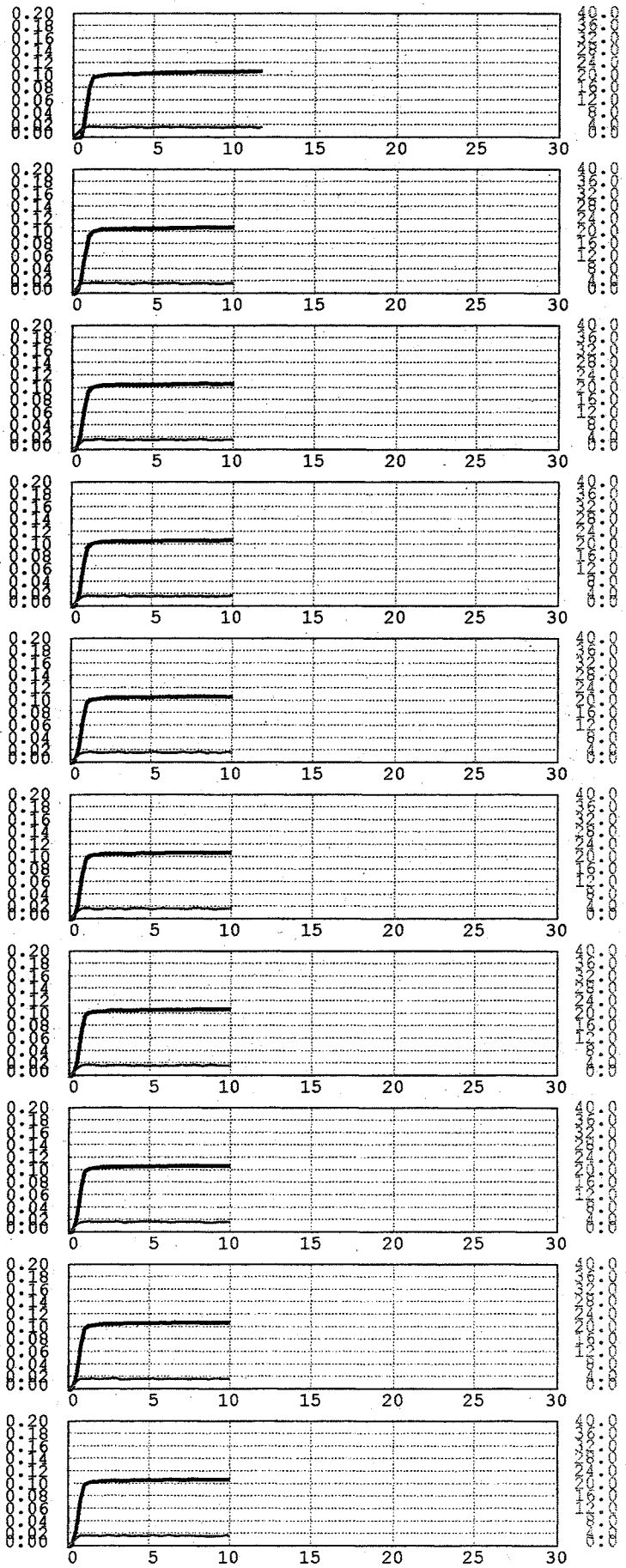
DataMaster DMT: 102606

Date: 03/07/2008
Time: 08:51:14

SUPERVISOR NAME: ALB 04MEOH 08ETOH

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	08:52
INTERNAL STANDARD	PASSED	08:52
Xq = 0.1116 (0.63%)		
SIMULATOR VAPOR	INTERFERENCE	08:52
X[1] = 0.1048 (-0.0050) (-0.0046)		
SIMULATOR VAPOR	INTERFERENCE	08:53
X[1] = 0.1049 (-0.0043) (-0.0047)		
SIMULATOR VAPOR	INTERFERENCE	08:54
X[1] = 0.1053 (-0.0049) (-0.0047)		
SIMULATOR VAPOR	INTERFERENCE	08:55
X[1] = 0.1047 (-0.0055) (-0.0055)		
SIMULATOR VAPOR	INTERFERENCE	08:56
X[1] = 0.1054 (-0.0055) (-0.0060)		
SIMULATOR VAPOR	INTERFERENCE	08:57
X[1] = 0.1055 (-0.0044) (-0.0048)		
SIMULATOR VAPOR	INTERFERENCE	08:58
X[1] = 0.1050 (-0.0058) (-0.0059)		
SIMULATOR VAPOR	INTERFERENCE	08:59
X[1] = 0.1054 (-0.0058) (-0.0045)		
SIMULATOR VAPOR	INTERFERENCE	09:00
X[1] = 0.1052 (-0.0052) (-0.0052)		
SIMULATOR VAPOR	INTERFERENCE	09:01
X[1] = 0.1054 (-0.0053) (-0.0053)		
BLANK TEST	0.000	09:02



ACCURACY AND PRECISION TEST

STATE OF VERMONT

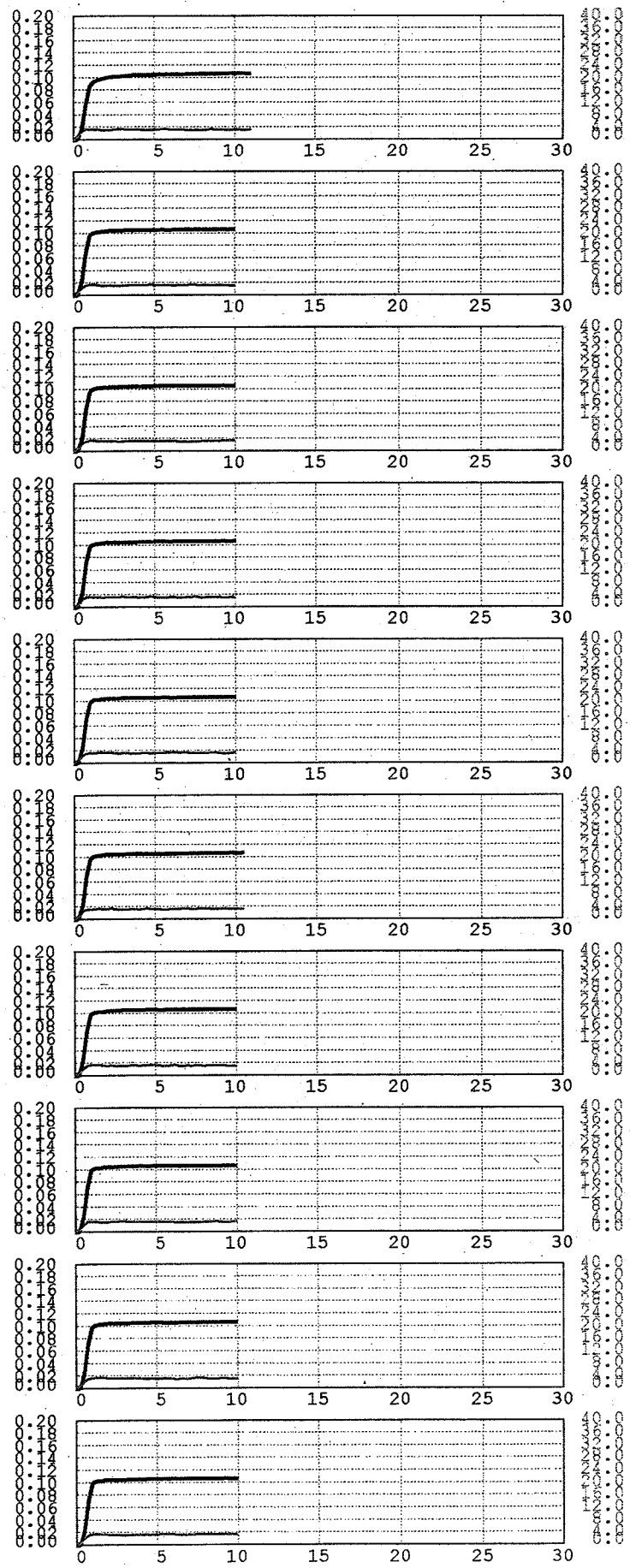
DataMaster DMT: 102606

Date: 03/07/2008
Time: 09:14:14

SUPERVISOR NAME: SEH .04MEOH IN .08ETOH

SOLUTION LOT #: 07-09-100
SOLUTION CONCENTRATION: 0.082

BLANK TEST	0.000	09:15
INTERNAL STANDARD	PASSED	09:15
Xq = 0.1120 (0.32%)		
SIMULATOR VAPOR	INTERFERENCE	09:15
X[1] = 0.1056 (-0.0051) (-0.0037)		
SIMULATOR VAPOR	INTERFERENCE	09:16
X[1] = 0.1056 (-0.0049) (-0.0038)		
SIMULATOR VAPOR	INTERFERENCE	09:17
X[1] = 0.1046 (-0.0062) (-0.0045)		
SIMULATOR VAPOR	INTERFERENCE	09:18
X[1] = 0.1054 (-0.0047) (-0.0045)		
SIMULATOR VAPOR	INTERFERENCE	09:19
X[1] = 0.1053 (-0.0053) (-0.0051)		
SIMULATOR VAPOR	INTERFERENCE	09:20
X[1] = 0.1055 (-0.0057) (-0.0045)		
SIMULATOR VAPOR	INTERFERENCE	09:21
X[1] = 0.1058 (-0.0056) (-0.0052)		
SIMULATOR VAPOR	INTERFERENCE	09:22
X[1] = 0.1056 (-0.0055) (-0.0049)		
SIMULATOR VAPOR	INTERFERENCE	09:23
X[1] = 0.1055 (-0.0053) (-0.0049)		
SIMULATOR VAPOR	INTERFERENCE	09:24
X[1] = 0.1056 (-0.0051) (-0.0050)		
BLANK TEST	0.000	09:25



Section 6: Mouth Alcohol

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

Installation Date:

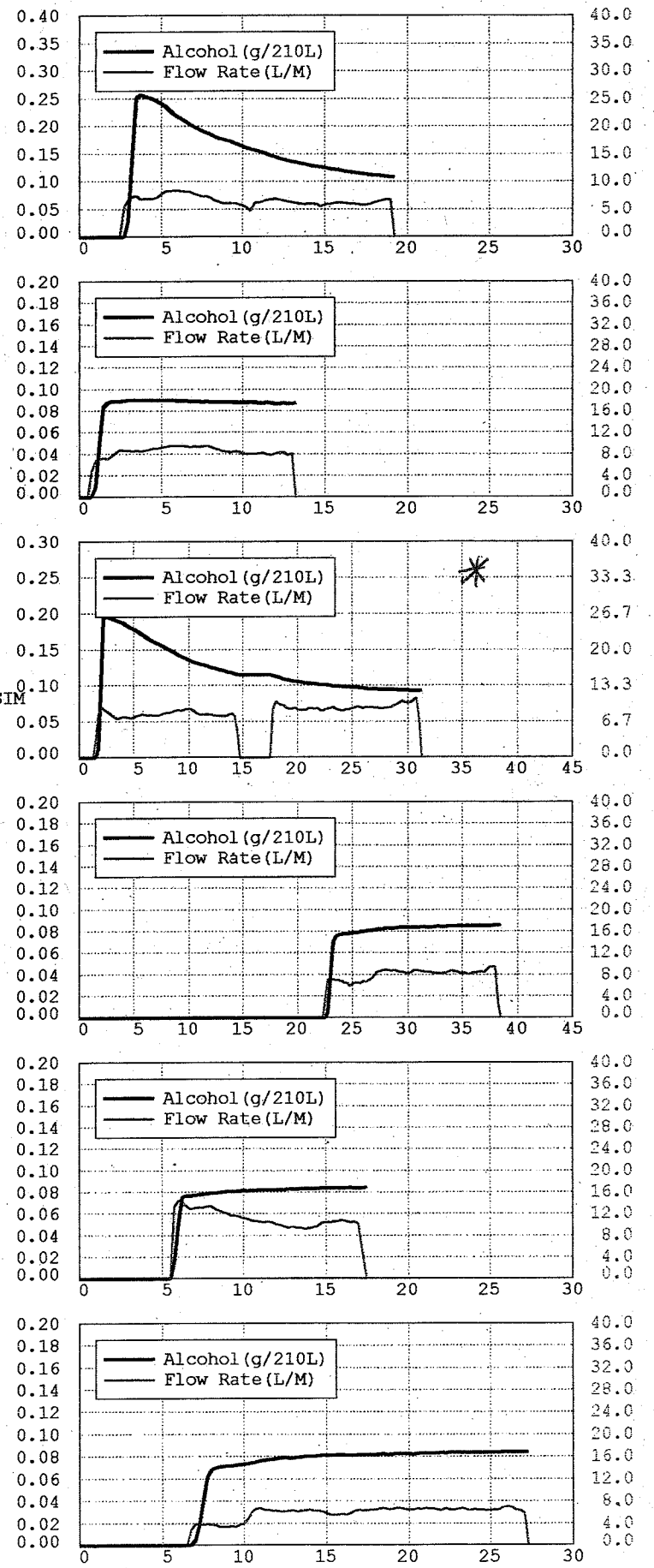
Date: 10/29/2007
Time: 09:16:07

Subject Name: 07-09-080 TEST

Test Operator Name: R J D
Comment: MOUTH ALCOHOL TEST 0.40 TYGON 0.0821 SIM

BLANK TEST	0.000	09:17
INTERNAL STANDARD	PASSED	09:17
Xq = 0.1381 (1.15%)		
SUBJECT SAMPLE (Vol=1.8L)	INVALID	09:17
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	09:18
SUBJECT SAMPLE (Vol=1.7L)	0.086	09:19
X[1] = 0.0863 (-0.0002) (-0.0013)		
BLANK TEST	0.000	09:19
SUBJECT SAMPLE (Vol=2.0L)	INVALID	09:20
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	09:21
SUBJECT SAMPLE (Vol=2.0L)	0.084	09:22
X[1] = 0.0848 (-0.0008) (0.0002)		
BLANK TEST	0.000	09:23
SUBJECT SAMPLE (Vol=2.1L)	0.083	09:23
X[1] = 0.0835 (-0.0005) (-0.0009)		
BLANK TEST	0.000	09:24
SUBJECT SAMPLE (Vol=2.0L)	0.083	09:24
X[1] = 0.0834 (0.0000) (0.0007)		

* new changed tube
RJD 10/29/07



10/29/2007 09:25

6-2

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

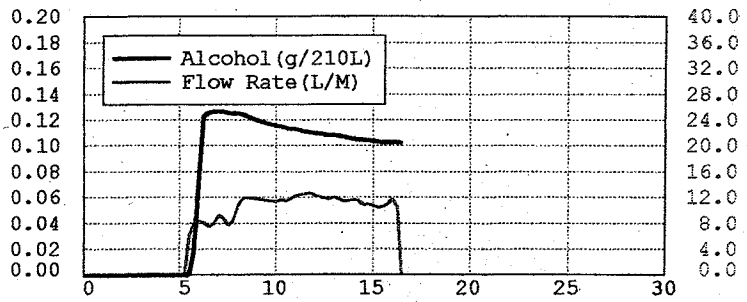
Installation Date:

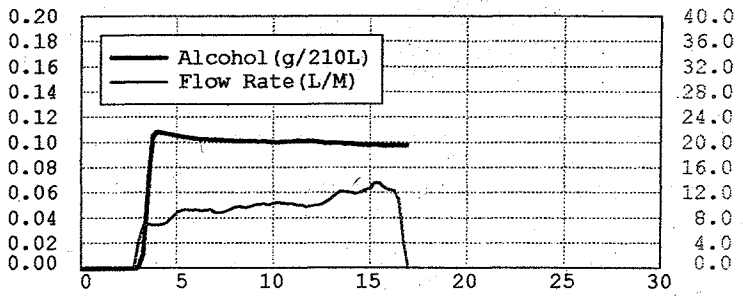
Date: 10/29/2007
Time: 15:11:10

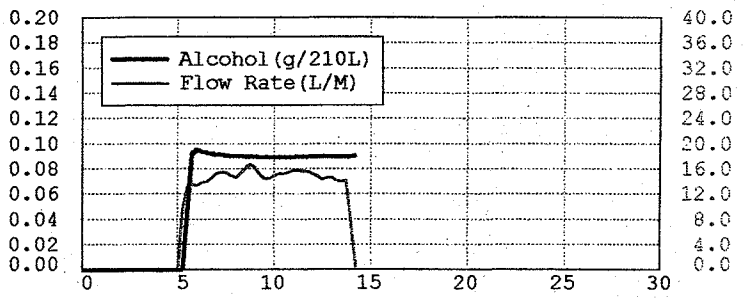
Subject Name: 07-09-080 MOUTH ALC

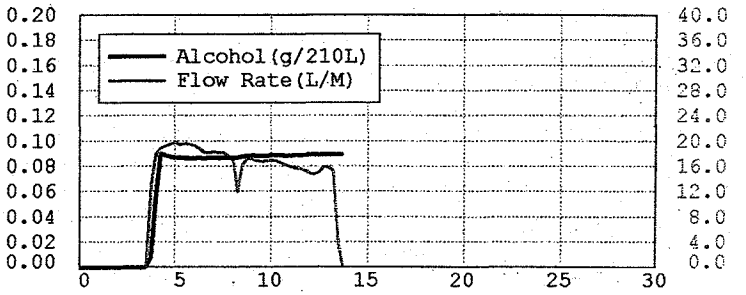
Test Operator Name: H X B
Comment: 0.4 TYGON 10MIN 0.0821 SIM

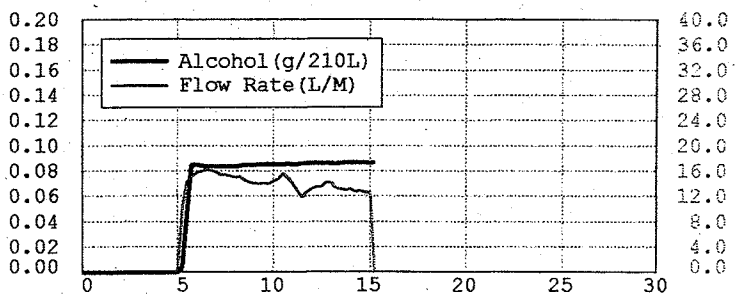
BLANK TEST	0.000	15:12
INTERNAL STANDARD	PASSED	15:12
SUBJECT SAMPLE (Vol=1.9L)	INVALID	15:12
BLANK TEST	0.000	15:13
SUBJECT SAMPLE (Vol=2.2L)	INVALID	15:14
BLANK TEST	0.000	15:14
SUBJECT SAMPLE (Vol=2.1L)	0.089	15:15
BLANK TEST	0.000	15:15
SUBJECT SAMPLE (Vol=2.7L)	0.088	15:16
BLANK TEST	0.000	15:17
SUBJECT SAMPLE (Vol=2.3L)	0.085	15:17
BLANK TEST	0.000	15:18
SUBJECT SAMPLE (Vol=2.2L)	0.083	15:18

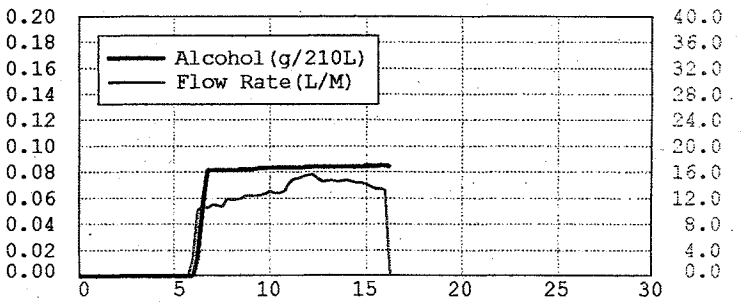












DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

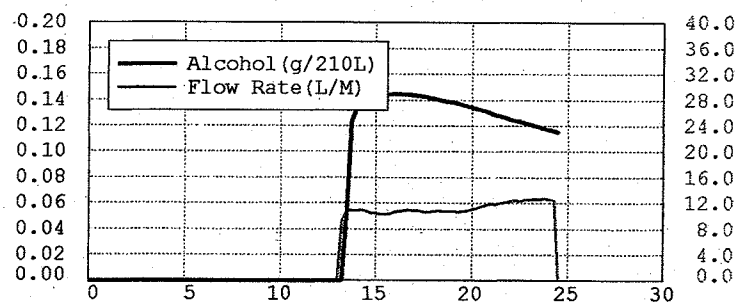
Installation Date:

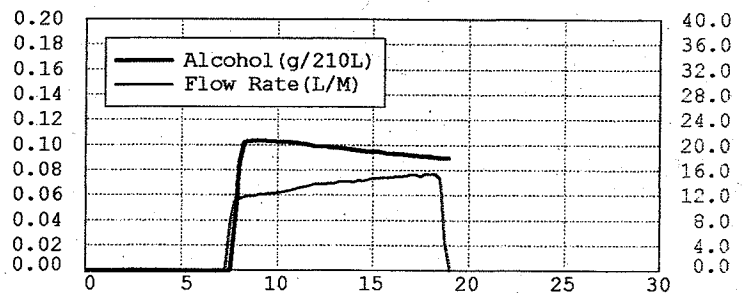
Date: 11/01/2007
Time: 11:17:34

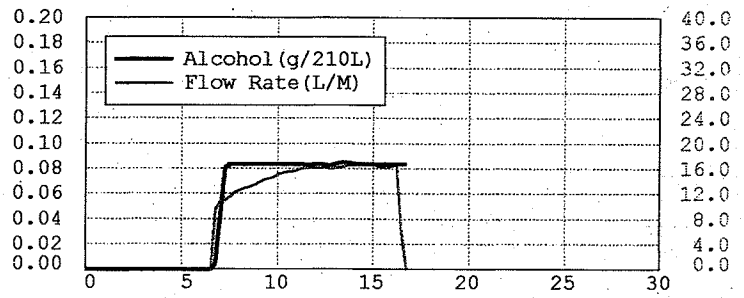
Subject Name: 07-09-080 TEST

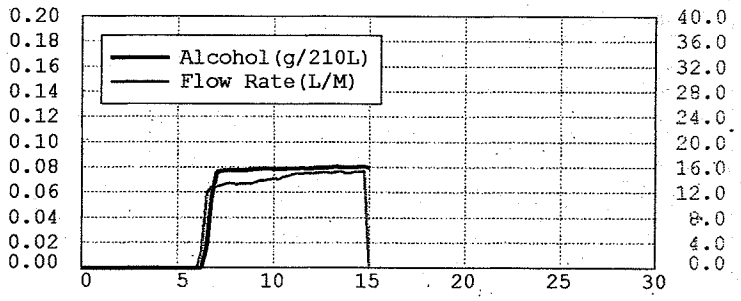
Test Operator Name: S E H
Comment: 0.04 TYGON 0.0821 SIM

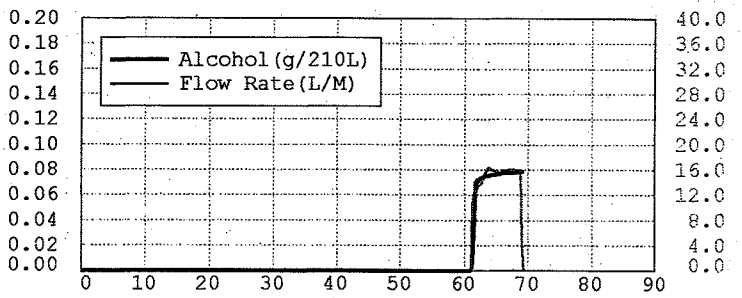
BLANK TEST	0.000	11:18
INTERNAL STANDARD	PASSED	11:18
SUBJECT SAMPLE (Vol=2.1L)	INVALID	11:19
BLANK TEST	0.000	11:19
SUBJECT SAMPLE (Vol=2.5L)	INVALID	11:20
BLANK TEST	0.000	11:21
SUBJECT SAMPLE (Vol=2.4L)	0.082	11:21
BLANK TEST	0.000	11:22
SUBJECT SAMPLE (Vol=2.0L)	0.079	11:22
BLANK TEST	0.000	11:23
SUBJECT SAMPLE (Vol=1.9L)	0.077	11:24
BLANK TEST	0.000	11:25
SUBJECT SAMPLE (Vol=1.9L)	0.078	11:25

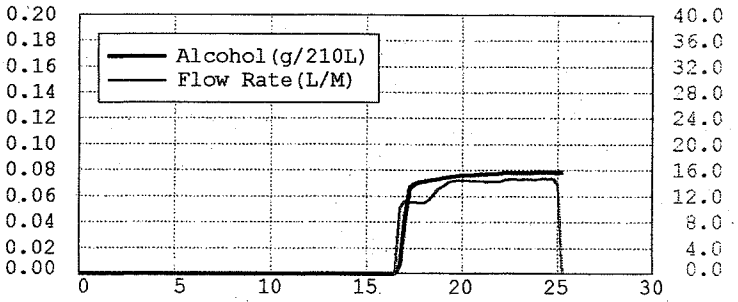












11/01/2007 11:26

6-4

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

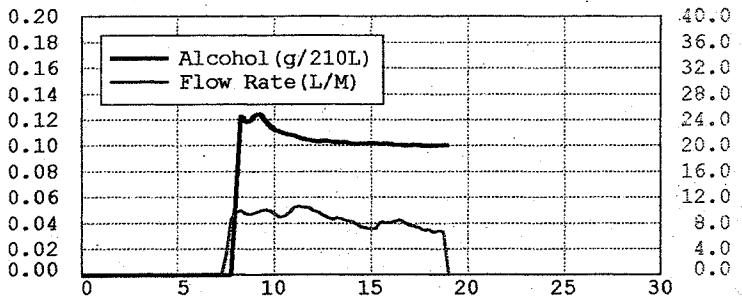
Installation Date:

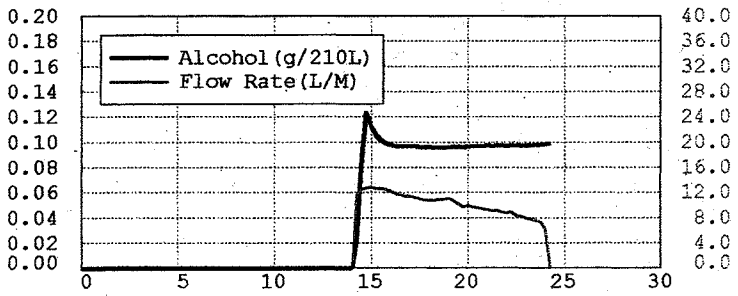
Date: 11/05/2007
Time: 09:33:13

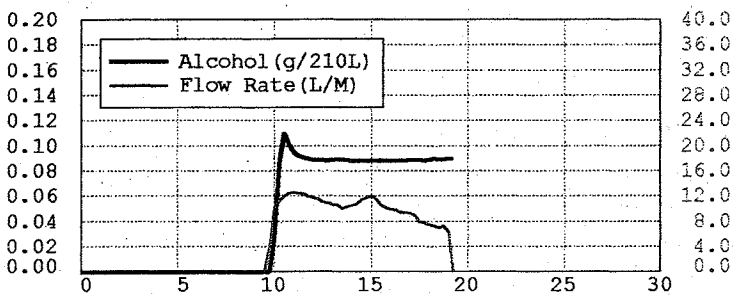
Subject Name: 07-09-080 TEST

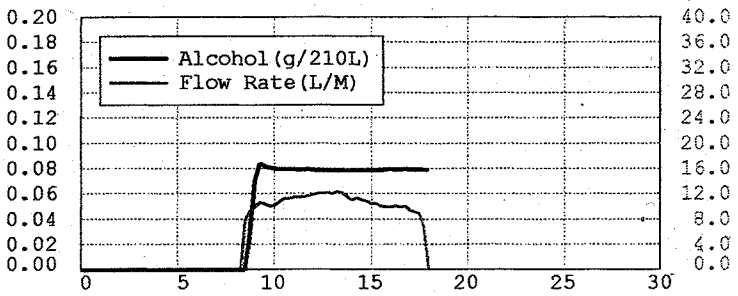
Test Operator Name: A L B
Comment: .4 TYGON 10MIN .0821 SIM

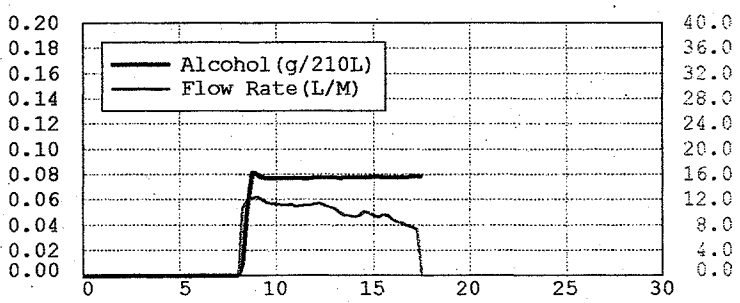
BLANK TEST	0.000	09:34
INTERNAL STANDARD	PASSED	09:34
SUBJECT SAMPLE (Vol=1.6L)	INVALID	09:34
BLANK TEST	0.000	09:35
SUBJECT SAMPLE (Vol=1.7L)	INVALID	09:35
BLANK TEST	0.000	09:36
SUBJECT SAMPLE (Vol=1.5L)	INVALID	09:36
BLANK TEST	0.000	09:37
SUBJECT SAMPLE (Vol=1.6L)	INVALID	09:38
BLANK TEST	0.000	09:38
SUBJECT SAMPLE (Vol=1.5L)	0.077	09:39
BLANK TEST	0.000	09:39
SUBJECT SAMPLE (Vol=1.8L)	0.076	09:40

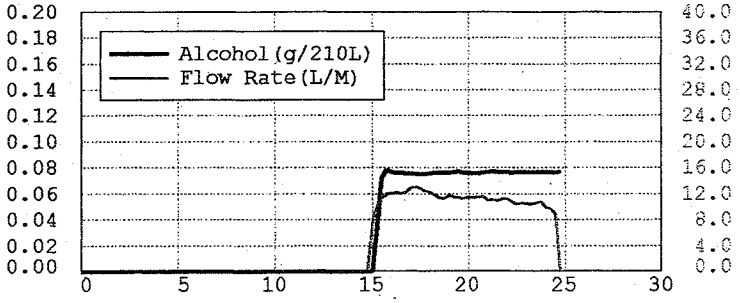












11/05/2007 09:40

6-5

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

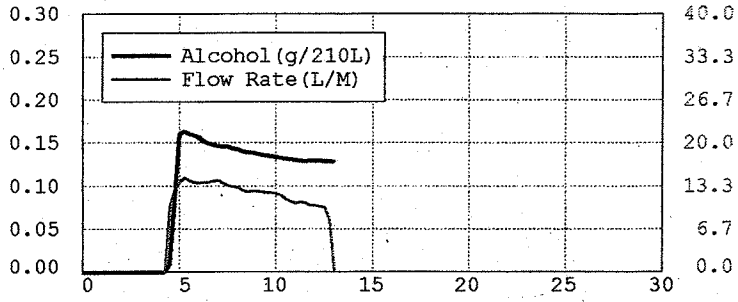
Installation Date:

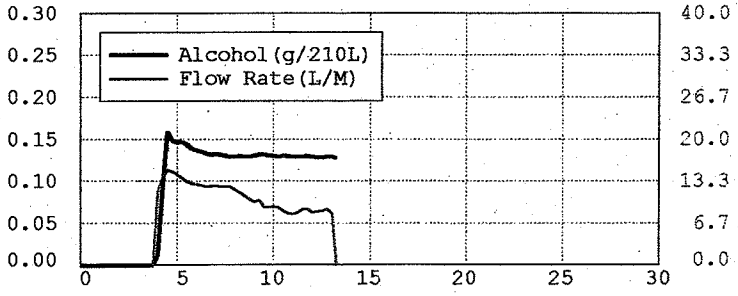
Date: 11/06/2007
Time: 17:00:57

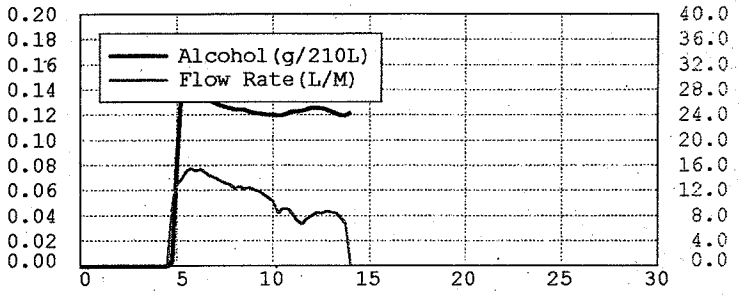
Subject Name: D M R

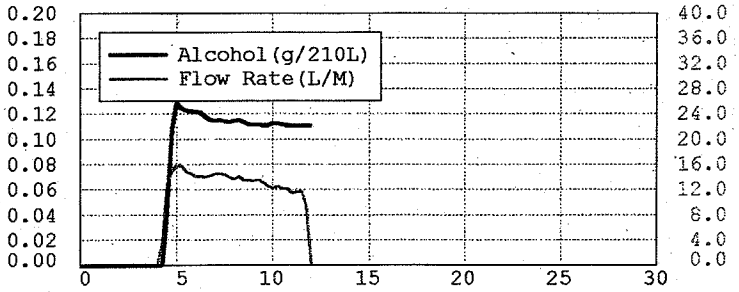
Test Operator Name: D M R
Comment: MOUTH ALCOHOL TESTING

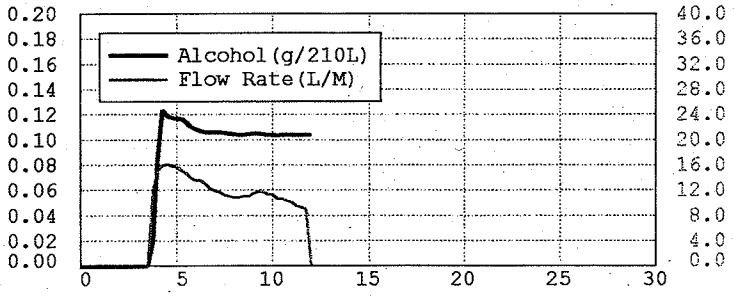
BLANK TEST	0.000	17:01
INTERNAL STANDARD	PASSED	17:01
Xq = 0.1389 (0.58%)		
SUBJECT SAMPLE (Vol=1.7L)	INVALID	17:02
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	17:03
SUBJECT SAMPLE (Vol=1.6L)	INVALID	17:03
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	17:04
SUBJECT SAMPLE (Vol=1.6L)	INVALID	17:04
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	17:05
SUBJECT SAMPLE (Vol=1.6L)	INVALID	17:05
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	17:06
SUBJECT SAMPLE (Vol=1.6L)	INVALID	17:06
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	17:07
SUBJECT SAMPLE (Vol=1.7L)	INVALID	17:07
X[1] = 0.0000 (0.0000) (0.0000)		

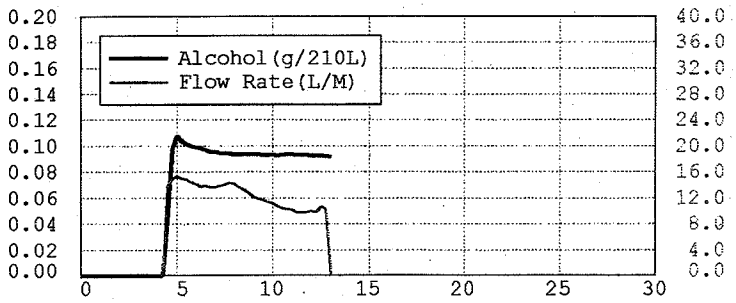












11/06/2007 17:08

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

Installation Date:

Date: 11/06/2007
Time: 17:09:36

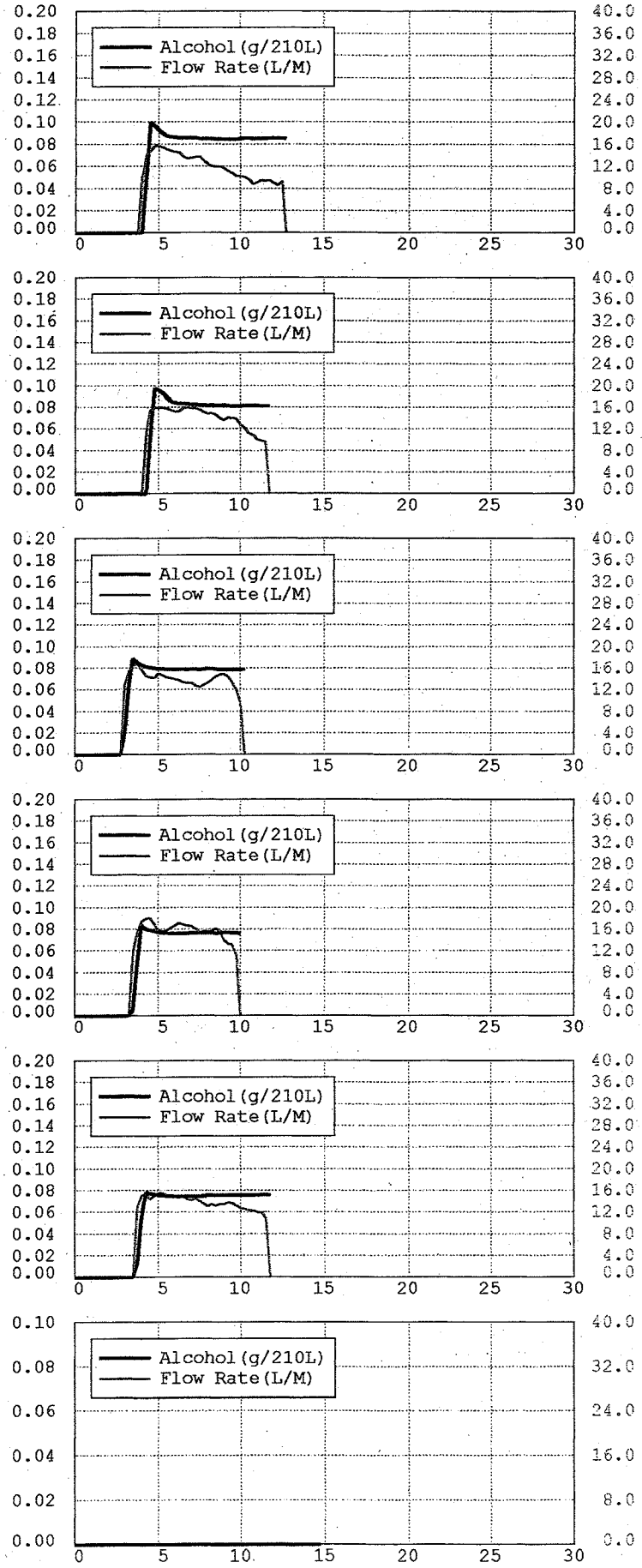
Subject Name: D M R

Test Operator Name: D M R
Comment: MOUTH ALCOHOL TESTING

BLANK TEST	0.000	17:10
INTERNAL STANDARD	PASSED	17:10
Xq = 0.1382 (1.02%)		
SUBJECT SAMPLE (Vol=1.7L)	INVALID	17:10
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	17:12
SUBJECT SAMPLE (Vol=1.7L)	INVALID	17:12
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	17:13
SUBJECT SAMPLE (Vol=1.6L)	INVALID	17:13
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	17:14
SUBJECT SAMPLE (Vol=1.6L)	INVALID	17:14
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	17:14
SUBJECT SAMPLE (Vol=1.8L)	0.074	17:15
X[1] = 0.0749 (0.0015) (-0.0002)		
BLANK TEST	0.000	17:16

USER ABORT

continued from previous
DMR 11/6/07



11/06/2007 17:16

Section 7: Temperature Monitoring

This Instrument not tested for this specification

Section 8: Breath Volume

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

Installation Date:

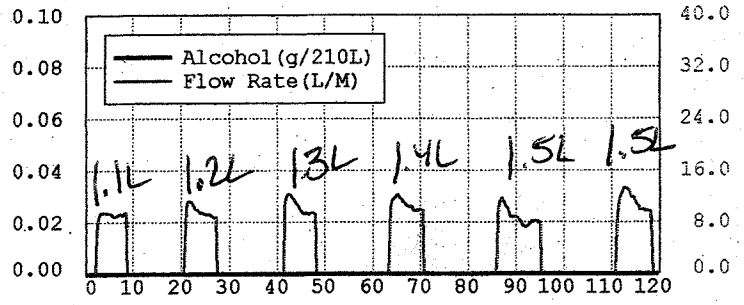
Date: 10/17/2007
Time: 14:59:48

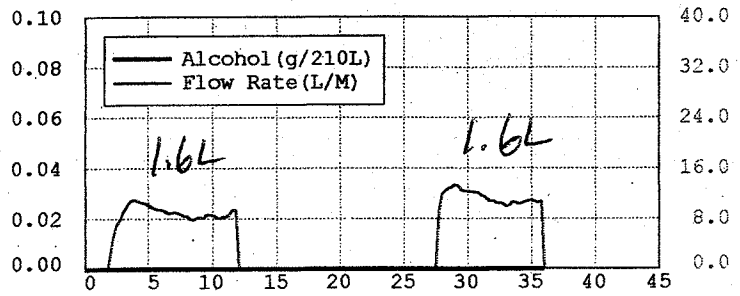
Subject Name: TEST TEST

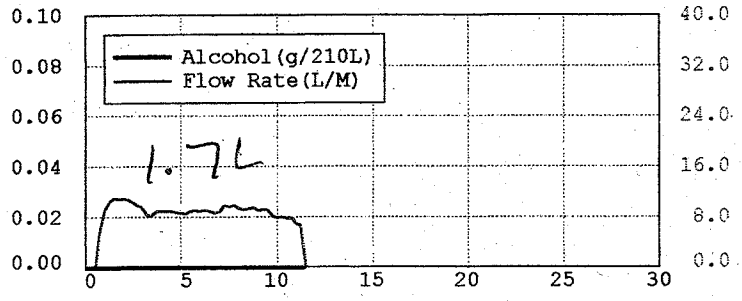
Test Operator Name: A L B
Comment: VOLUME TEST

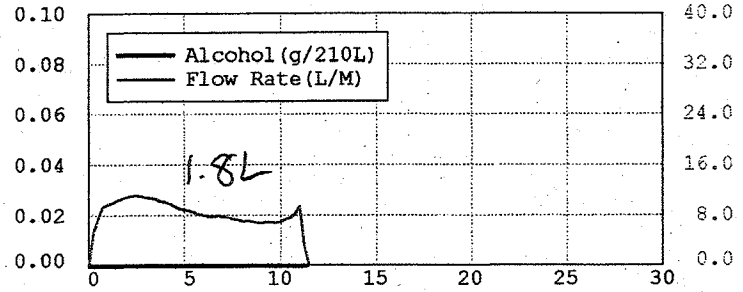
BLANK TEST	0.000	15:00
INTERNAL STANDARD	PASSED	15:00
Xq = 0.1396 (0.06%)		
SUBJECT SAMPLE	INCOMPLETE	15:02
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	15:03
SUBJECT SAMPLE (Vol=1.5L)	0.000	15:04
X[1] = 0.0000 (0.0000) (-0.0003)		
BLANK TEST	0.000	15:04
SUBJECT SAMPLE (Vol=1.5L)	0.000	15:05
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	15:05
SUBJECT SAMPLE (Vol=1.5L)	0.000	15:06
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	15:07
SUBJECT SAMPLE (Vol=1.6L)	0.000	15:07
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	15:08
SUBJECT SAMPLE (Vol=1.8L)	0.000	15:08
X[1] = 0.0000 (0.0000) (-0.0006)		

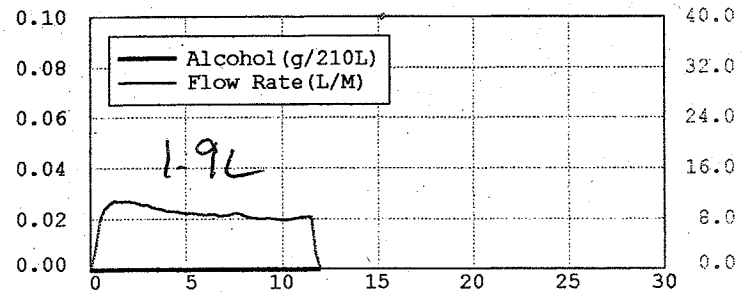
reported 1.5L as 1.4L
and 1.3L 10/17/07 [illegible]
reported 1st 1.6L as 1.4L

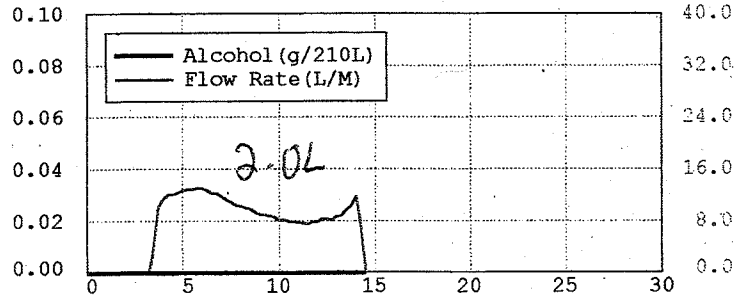












10/17/2007 15:08

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

Installation Date:

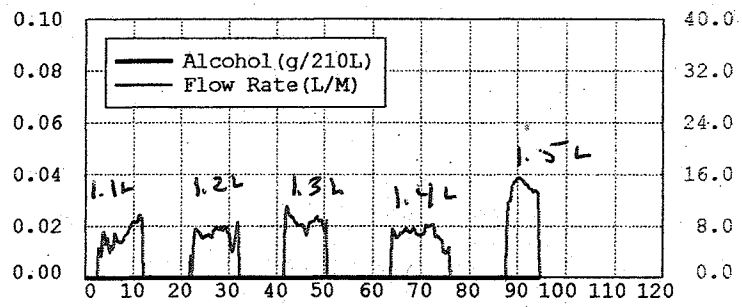
Date: 10/24/2007
Time: 08:51:28

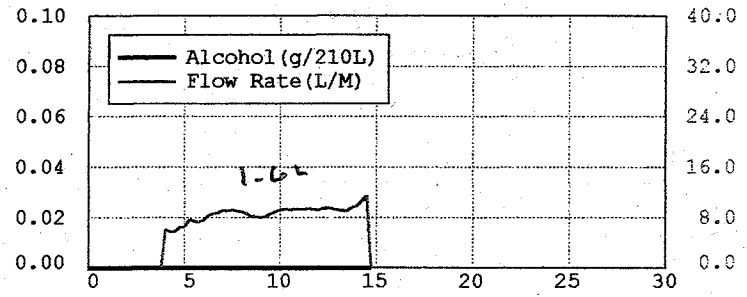
Subject Name: 1.1L - 2.0L

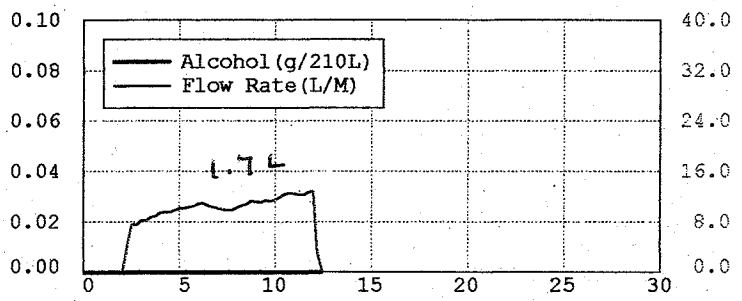
Test Operator Name: R J D
Comment: BREATH VOLUME ACCURACY TEST

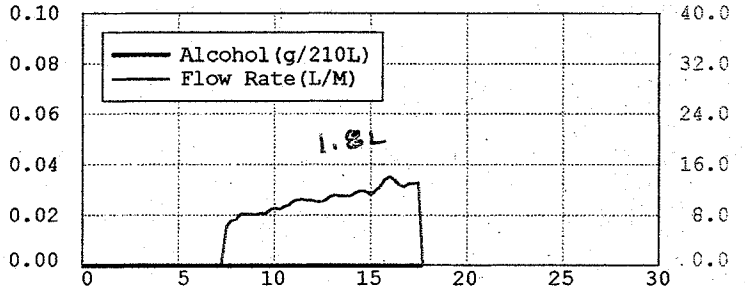
BLANK TEST	0.000	08:52
INTERNAL STANDARD	PASSED	08:52
Xq = 0.1387 (0.70%)		
SUBJECT SAMPLE (Vol=1.5L)	0.000	08:54
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	08:54
SUBJECT SAMPLE (Vol=1.5L)	0.000	08:55
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	08:56
SUBJECT SAMPLE (Vol=1.7L)	0.000	08:56
X[1] = 0.0000 (0.0000) (-0.0004)		
BLANK TEST	0.000	08:57
SUBJECT SAMPLE (Vol=1.7L)	0.000	08:57
X[1] = 0.0000 (0.0000) (-0.0003)		
BLANK TEST	0.000	08:58
SUBJECT SAMPLE (Vol=1.8L)	0.000	08:58
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	08:59
SUBJECT SAMPLE (Vol=1.9L)	0.000	08:59
X[1] = 0.0000 (0.0000) (-0.0004)		

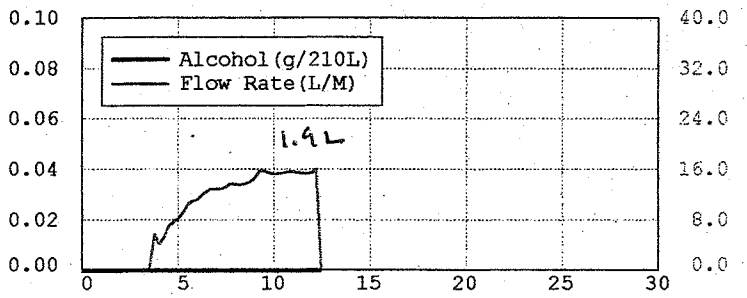
10/24/07
RJD

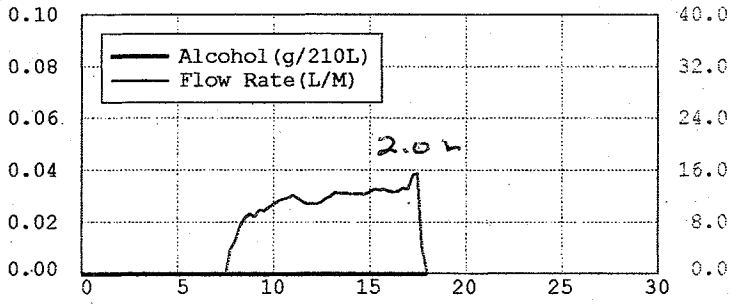












DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

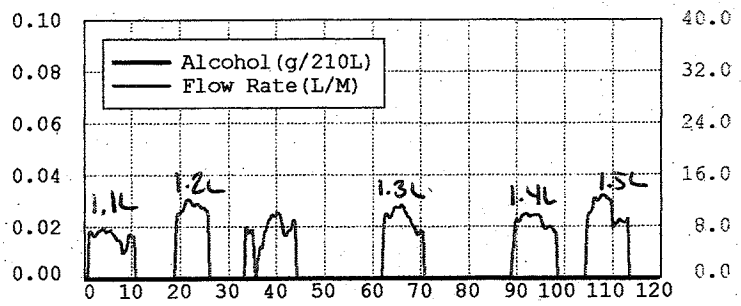
Installation Date:

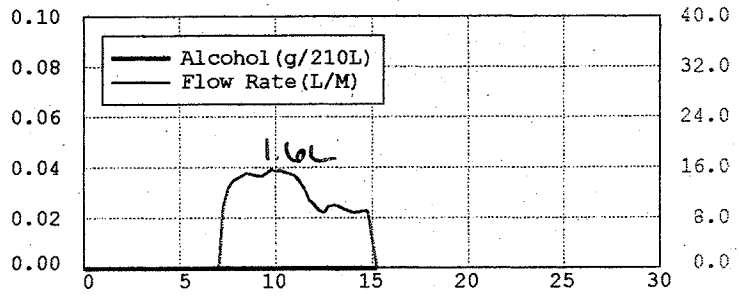
Date: 10/29/2007
Time: 13:49:55

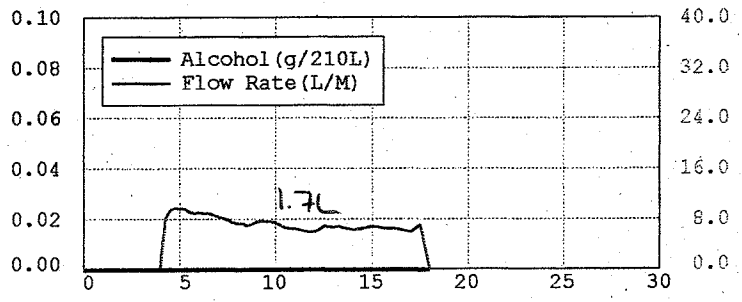
Subject Name: VOLUME TEST

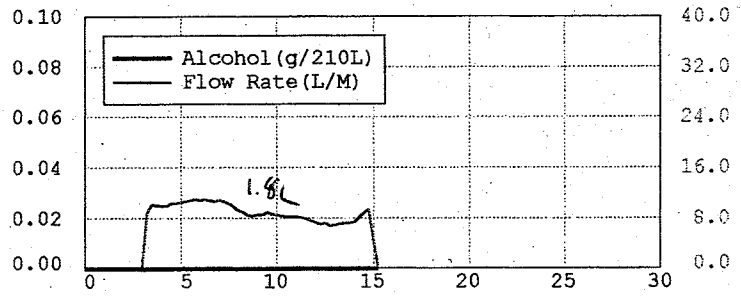
Test Operator Name: H X B
Comment:

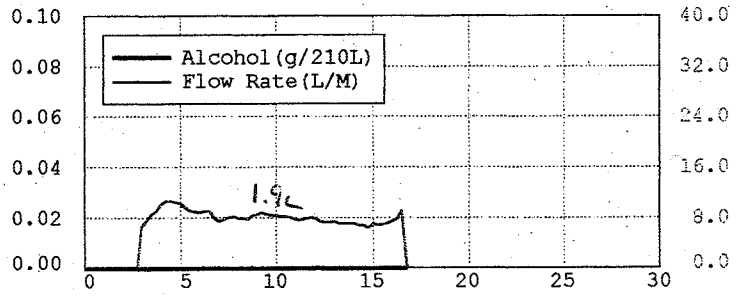
BLANK TEST	0.000	13:50
INTERNAL STANDARD	PASSED	13:50
SUBJECT SAMPLE	INCOMPLETE	13:53
BLANK TEST	0.000	13:53
SUBJECT SAMPLE (Vol=1.6L)	0.000	13:53
BLANK TEST	0.000	13:54
SUBJECT SAMPLE (Vol=1.6L)	0.000	13:55
BLANK TEST	0.000	13:55
SUBJECT SAMPLE (Vol=1.7L)	0.000	13:56
BLANK TEST	0.000	13:56
SUBJECT SAMPLE (Vol=1.8L)	0.000	13:57
BLANK TEST	0.000	13:58
SUBJECT SAMPLE (Vol=1.7L)	0.000	13:59

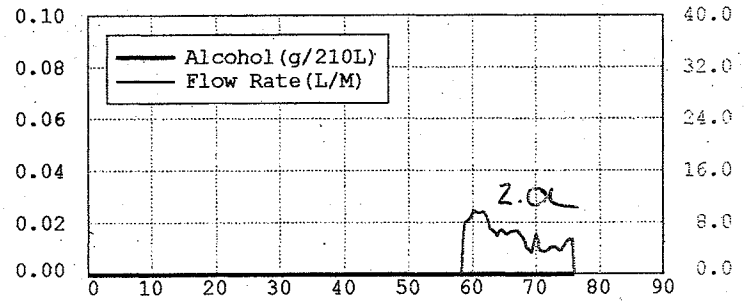












DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

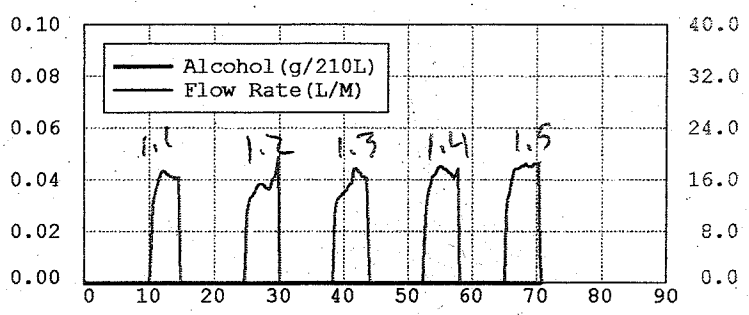
Installation Date:

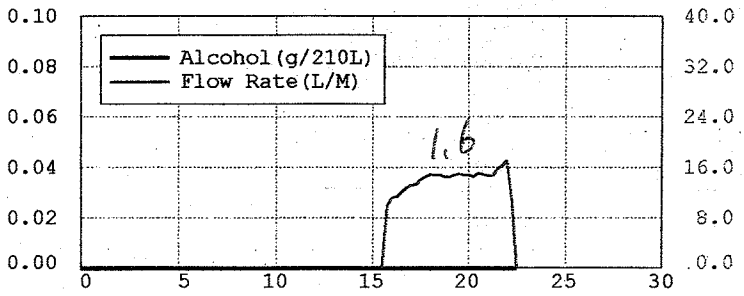
Date: 10/30/2007
Time: 11:37:19

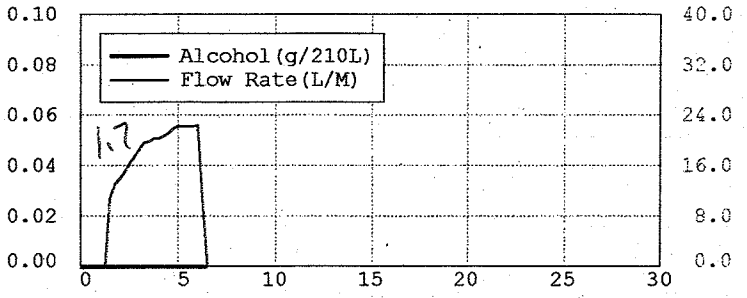
Subject Name: VOLUME A TEST

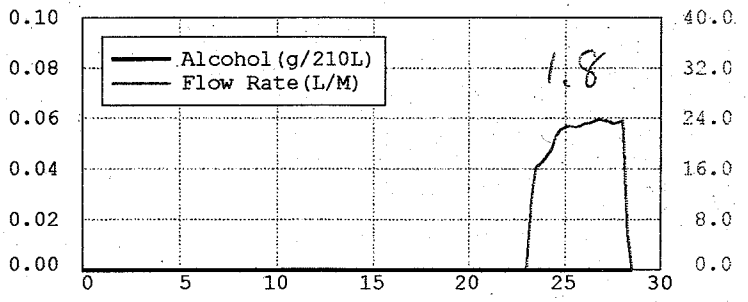
Test Operator Name: S E H
Comment:

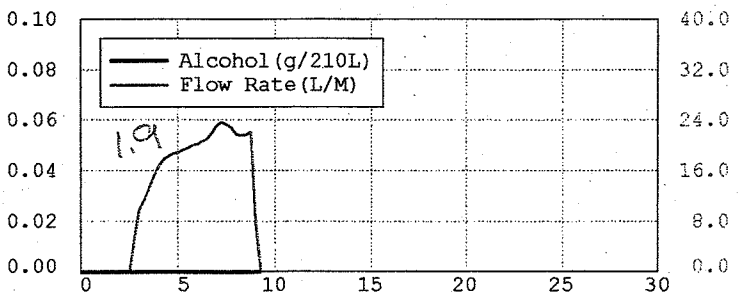
BLANK TEST	0.000	11:38
INTERNAL STANDARD	PASSED	11:38
SUBJECT SAMPLE (Vol=1.5L)	0.000	11:39
BLANK TEST	0.000	11:40
SUBJECT SAMPLE (Vol=1.5L)	0.000	11:40
BLANK TEST	0.000	11:41
SUBJECT SAMPLE (Vol=1.5L)	0.000	11:41
BLANK TEST	0.000	11:42
SUBJECT SAMPLE (Vol=1.7L)	0.000	11:43
BLANK TEST	0.000	11:43
SUBJECT SAMPLE (Vol=1.9L)	0.000	11:44
BLANK TEST	0.000	11:44
SUBJECT SAMPLE (Vol=2.0L)	0.000	11:45

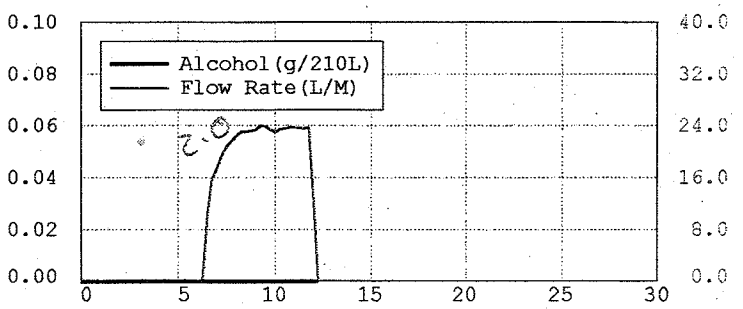












10/30/2007 11:45

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

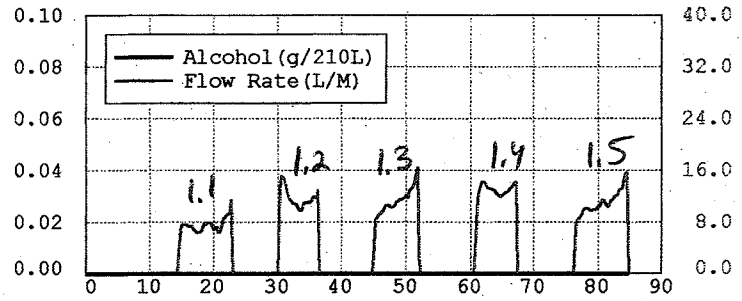
Installation Date:

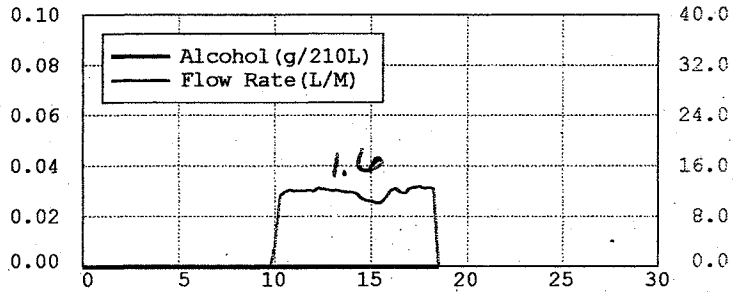
Date: 11/06/2007
Time: 15:54:37

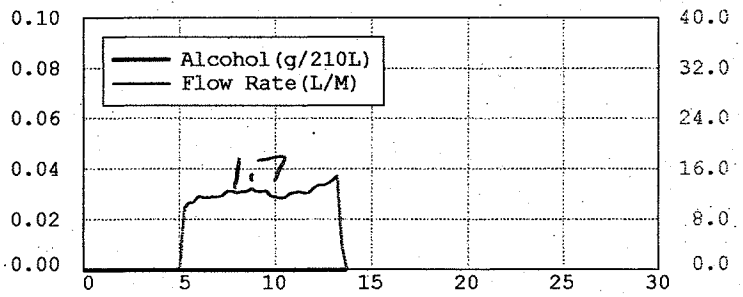
Subject Name: D M R

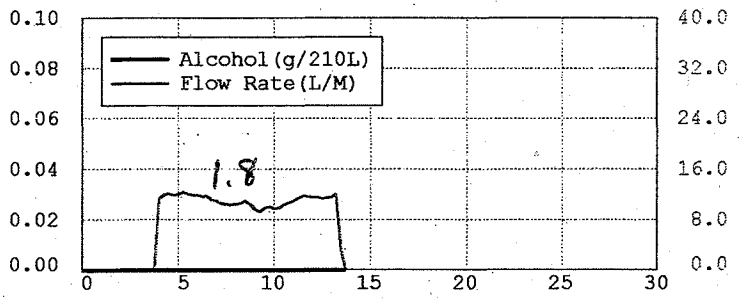
Test Operator Name: D M R
Comment: BREATH VOLUME TESTING

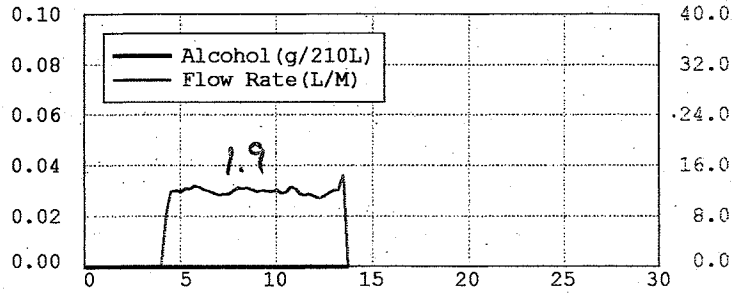
BLANK TEST	0.000	15:55
INTERNAL STANDARD	PASSED	15:55
Xq = 0.1385 (0.83%)		
SUBJECT SAMPLE (Vol=1.5L)	0.000	15:57
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	15:57
SUBJECT SAMPLE (Vol=1.6L)	0.000	15:58
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	15:59
SUBJECT SAMPLE (Vol=1.6L)	0.000	15:59
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	16:00
SUBJECT SAMPLE (Vol=1.7L)	0.000	16:00
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	16:01
SUBJECT SAMPLE (Vol=1.8L)	0.000	16:01
X[1] = 0.0000 (0.0000) (-0.0012)		
BLANK TEST	0.000	16:02
SUBJECT SAMPLE (Vol=1.8L)	0.000	16:02
X[1] = 0.0000 (0.0000) (0.0000)		

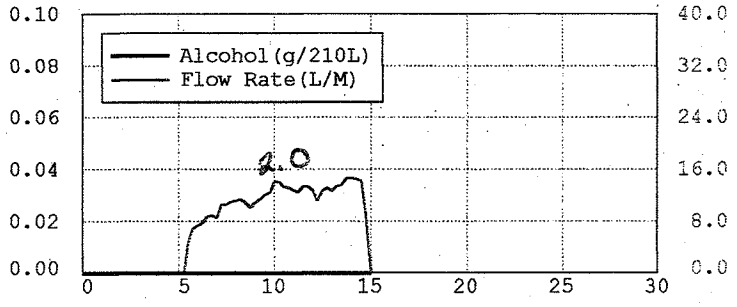












Section 9: Low Level Accuracy

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

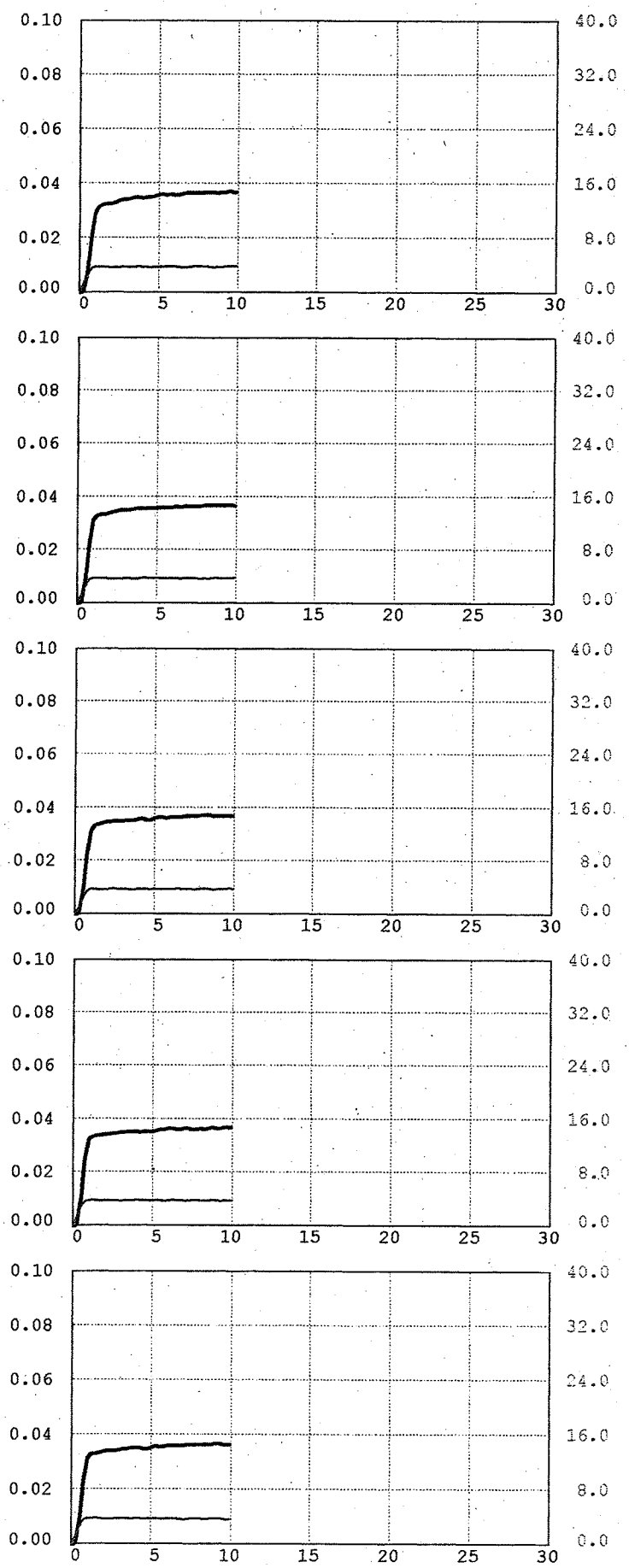
Date: 10/09/2007
Time: 12:34:19

SUPERVISOR NAME: GD R R

SOLUTION LOT #: 98-76-543
SOLUTION CONCENTRATION: 0.036

BLANK TEST		0.000	12:35
INTERNAL STANDARD		PASSED	12:35
Xq = 0.1386 (0.19%)			
SIMULATOR VAPOR		0.036	12:35
X[1] = 0.0369	(0.0005)	(-0.0003)	
SIMULATOR VAPOR		0.037	12:36
X[1] = 0.0371	(0.0011)	(0.0005)	
SIMULATOR VAPOR		0.037	12:37
X[1] = 0.0374	(0.0009)	(0.0001)	
SIMULATOR VAPOR		0.036	12:38
X[1] = 0.0368	(0.0001)	(0.0009)	
SIMULATOR VAPOR		0.037	12:39
X[1] = 0.0372	(0.0003)	(-0.0003)	
BLANK TEST		0.000	12:40

Average = 0.0366
Std Dev = 0.0005



04/30/2008 09:17

Section 10: Calibration Stability

This Instrument not tested for this specification

Section 11: Error Reports

SIMULATOR SOLUTION CHANGE REPORT

DataMaster DMT: 102606
Location:
Date: 10/09/2007
Performed by: UY T YY

VERMONT
DEPARTMENT OF HEALTH

Accuracy and Precision Check

Concentration	= 0.3800g/210L
Lot #	= 98-76-5
Range	= 0.3610 - 0.3990
Average	= 0.0360g/210L
Std Dev	= 0.0000

Simulator Temperature: °C

Performed by _____ **Date** 10/09/2007

04/30/2008 08:43

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

Certification Date: 10/09/2007
Installation Date: 10/09/2007

Date: 10/09/2007
Time: 13:18:01

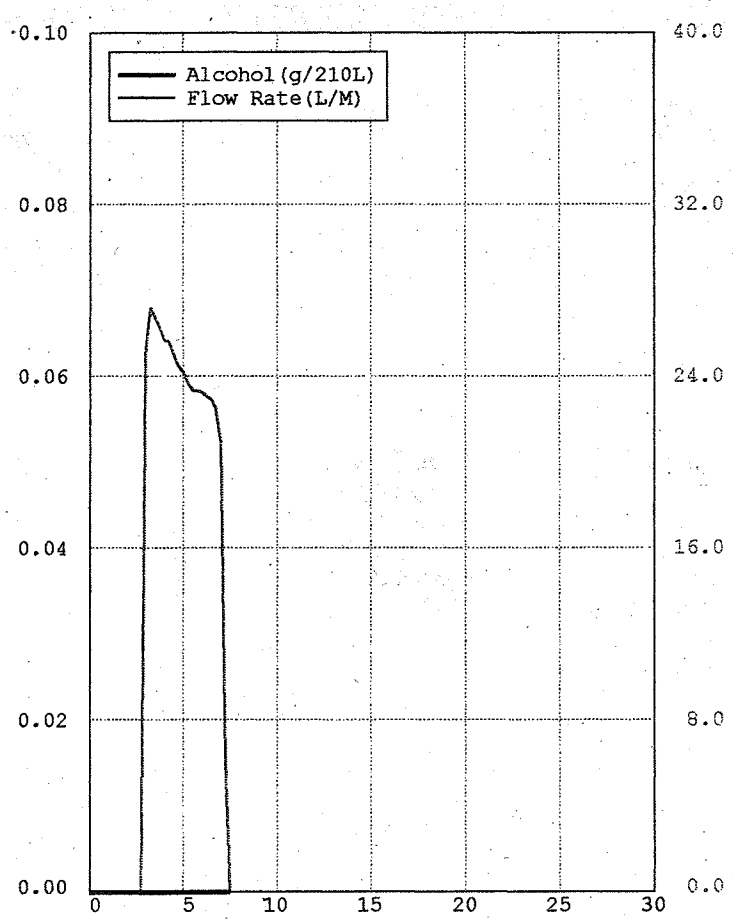
Subject Name: T T T
Date of Birth: 09/09/9090 Age: -7083
Guardian Present: N
Gender: M
License #: 456789 23

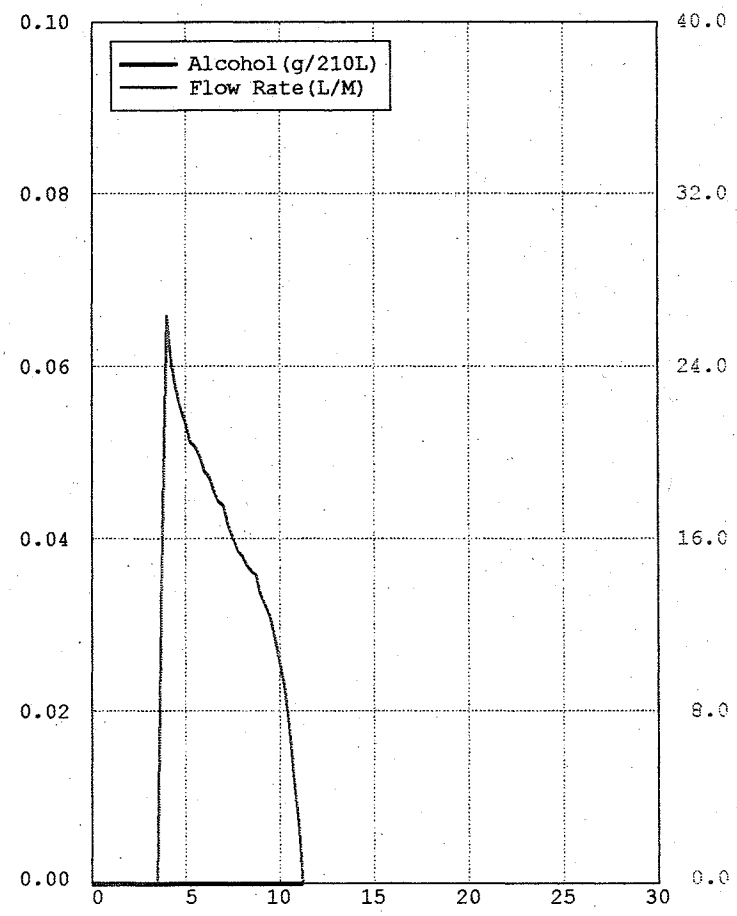
Case #: 987654YUIOIUYTG
Time of Operation: 12:00
Location of Incident: 345678
Town: HALIFAX
County: WINDHAM

Test Operator Name: 3456 R RTGYHUJIK
Agency: ADDISON COUNTY SO

Obs. Period Start:		13:17
BLANK TEST	0.000	13:18
INTERNAL STANDARD	PASSED	13:19
Xq = 0.1400 (0.84%)		
SIMULATOR VAPOR	0.098	13:19
X[1] = 0.0984 (0.0013) (0.0017)		
BLANK TEST	0.000	13:20
SUBJECT SAMPLE (Vol=1.7L)	0.000	13:24
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	13:25
INTERNAL STANDARD	PASSED	13:25
Xq = 0.1396 (0.51%)		
SIMULATOR VAPOR	0.099	13:25
X[1] = 0.0995 (0.0016) (0.0008)		
BLANK TEST	0.000	13:26
SUBJECT SAMPLE (Vol=1.9L)	0.000	13:27
X[1] = 0.0000 (-0.0002) (0.0000)		

All alcohol values reported in g/210L
Sim. Vapor Concentration 0.036
Sim. Vapor Range 0.034 - 0.038





04/30/2008 08:51

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

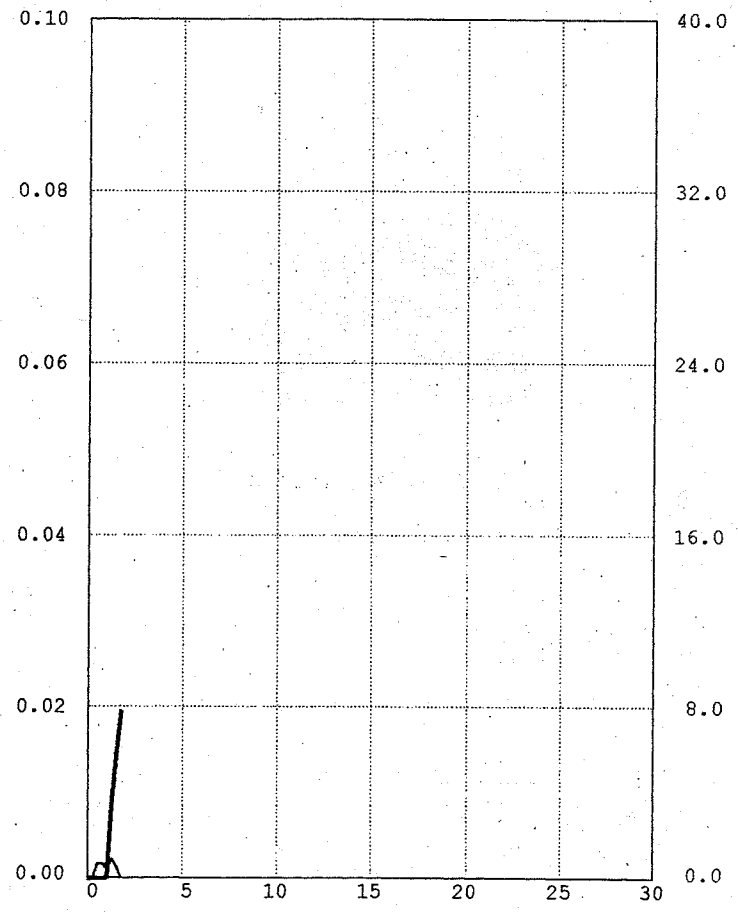
Date: 12/03/2007
Time: 13:53:02

SUPERVISOR NAME: ALB TOLUENE TEST

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	13:53
INTERNAL STANDARD	PASSED	13:54
Xq = 0.1373 (1.73%)		

PUMP ERROR



12/03/2007 13:56

11-4

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

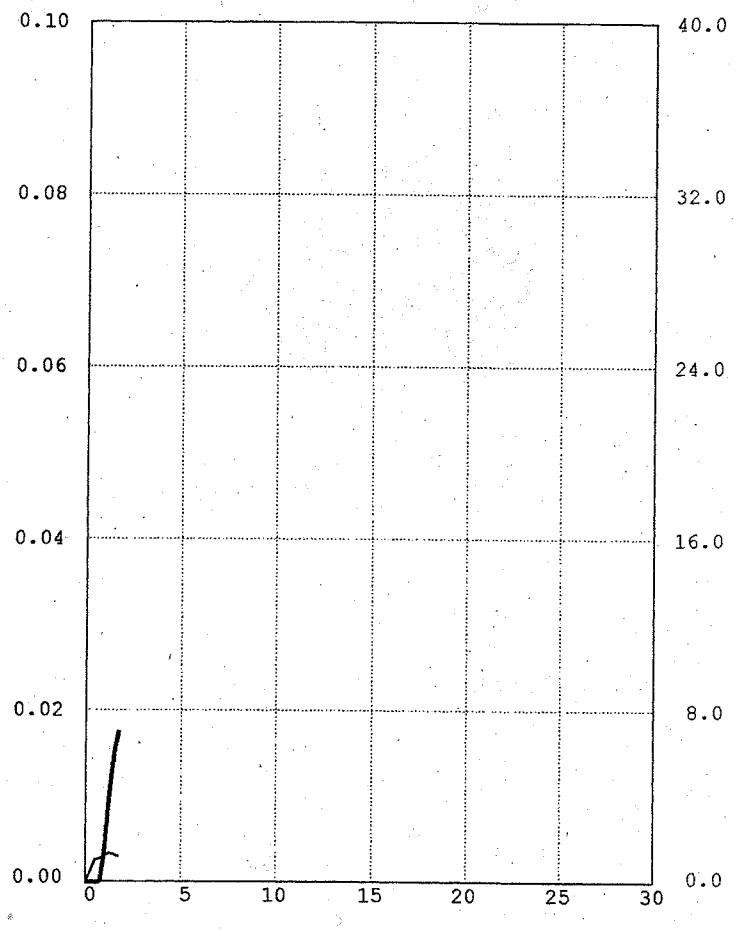
Date: 12/03/2007
Time: 13:54:36

SUPERVISOR NAME: ALB TOLUENE TEST

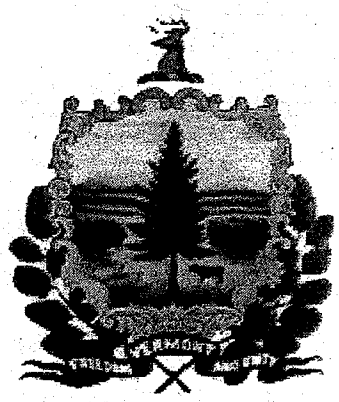
SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.080

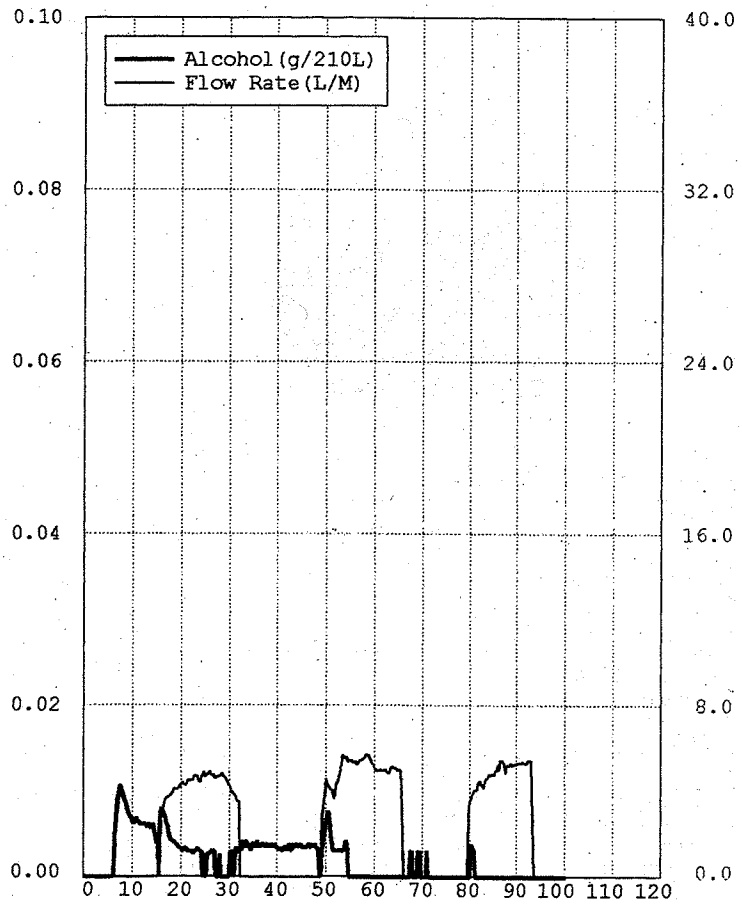
BLANK TEST	0.000	13:55
INTERNAL STANDARD	PASSED	13:55
Xq = 0.1375 (1.53%)		

PUMP ERROR



12/03/2007 13:55





DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

Installation Date:

Date: 12/03/2007
Time: 13:58:53

Subject Name:

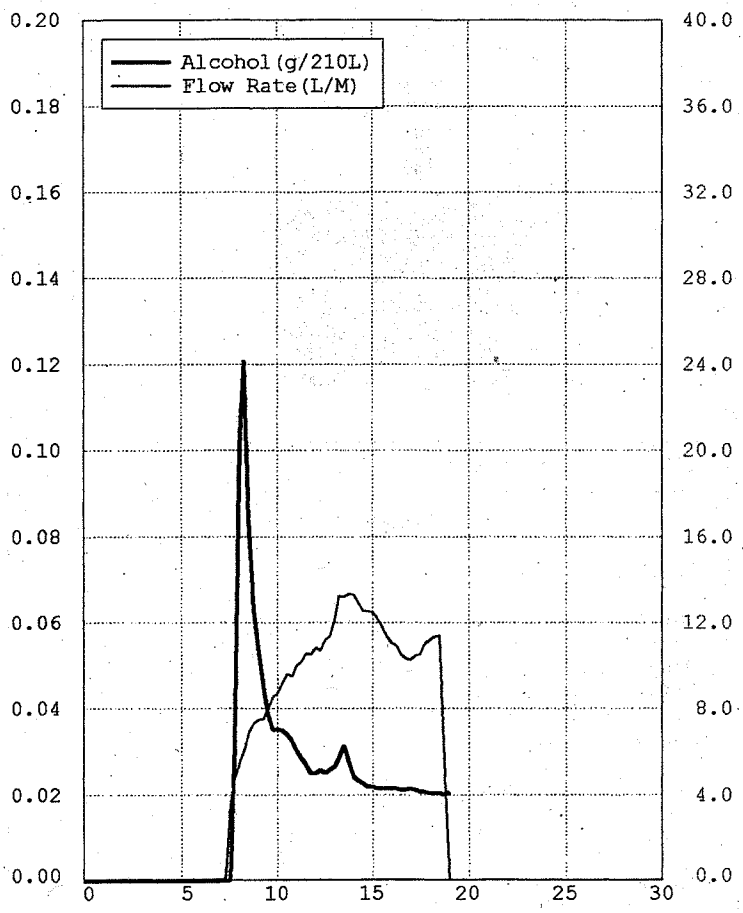
Test Operator Name: A L B
Comment: TOLUENE TEST

BLANK TEST	0.000	13:59
INTERNAL STANDARD	PASSED	13:59
Xq = 0.1375 (1.53%)		

USER ABORT

12/03/2007 14:01

11-6



DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

Installation Date:

Date: 12/04/2007
Time: 13:43:31

Subject Name:

Test Operator Name: A L B
Comment: TOLUENE TEST

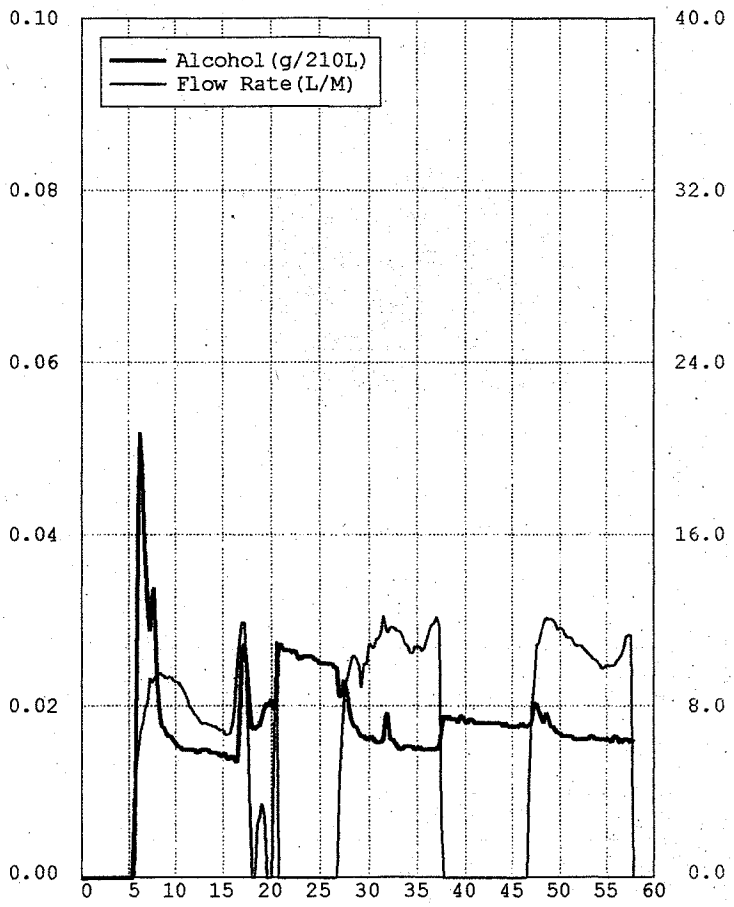
BLANK TEST	0.000	13:44
INTERNAL STANDARD	PASSED	13:44
SUBJECT SAMPLE (Vol=1.9L)	INVALID	13:44

BLANK ERROR

Plunger to push toluene through breath tube.
DMT had problem purging after. Only able to purge down to .009

12/4 dcB

12/04/2007 13:45



DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

Installation Date:

Date: 12/04/2007
Time: 13:46:20

Subject Name:

Test Operator Name: A L B
Comment: TOLUENE TEST

BLANK TEST	0.000	13:47
INTERNAL STANDARD	PASSED	13:47
SUBJECT SAMPLE (Vol=1.9L)	INVALID	13:48

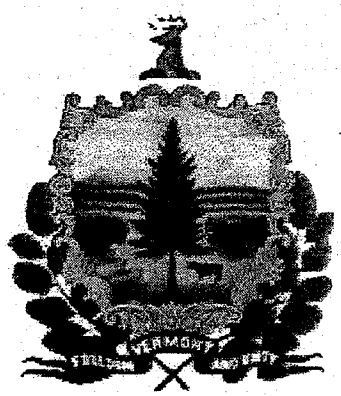
BLANK ERROR

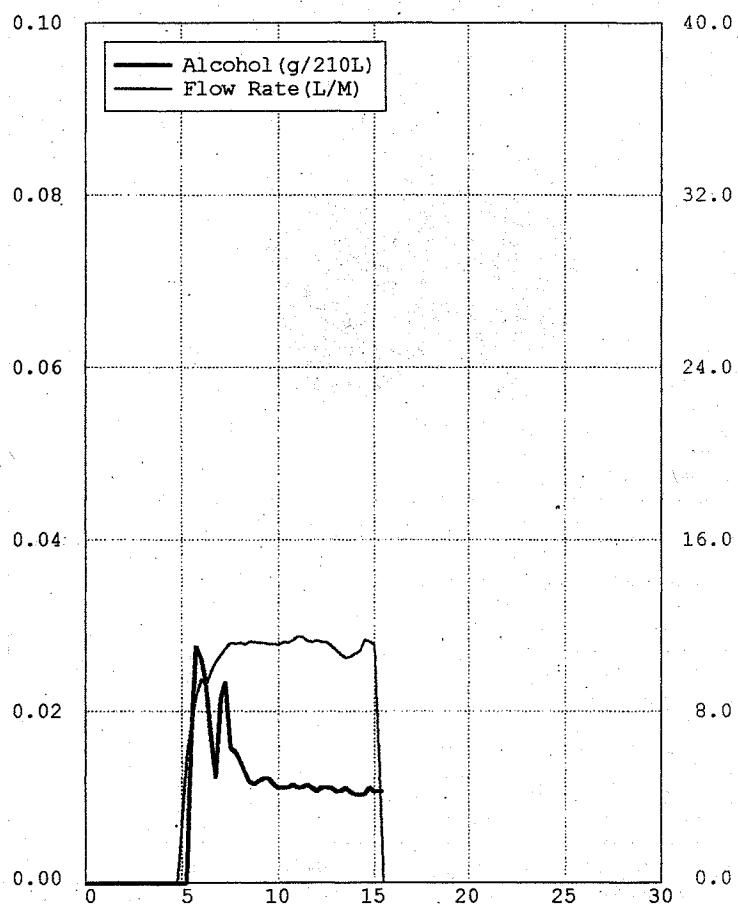
Unable to purge. When breath tube was blocked to check suction, aparent alcohol jumped .008 → .06/.08 range and could not purge lower.

12/4 [illegible]

12/04/2007 13:49

11-8





DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

Installation Date:

Date: 12/04/2007
Time: 13:51:42

Subject Name:

Test Operator Name: A L B
Comment: TOLUENE TEST

BLANK TEST	0.000	13:52
INTERNAL STANDARD	PASSED	13:52
Xq = 0.1379 (1.28%)		
SUBJECT SAMPLE (Vol=1.8L)	INVALID	13:53
X[1] = 0.0000 (0.0000) (0.0000)		

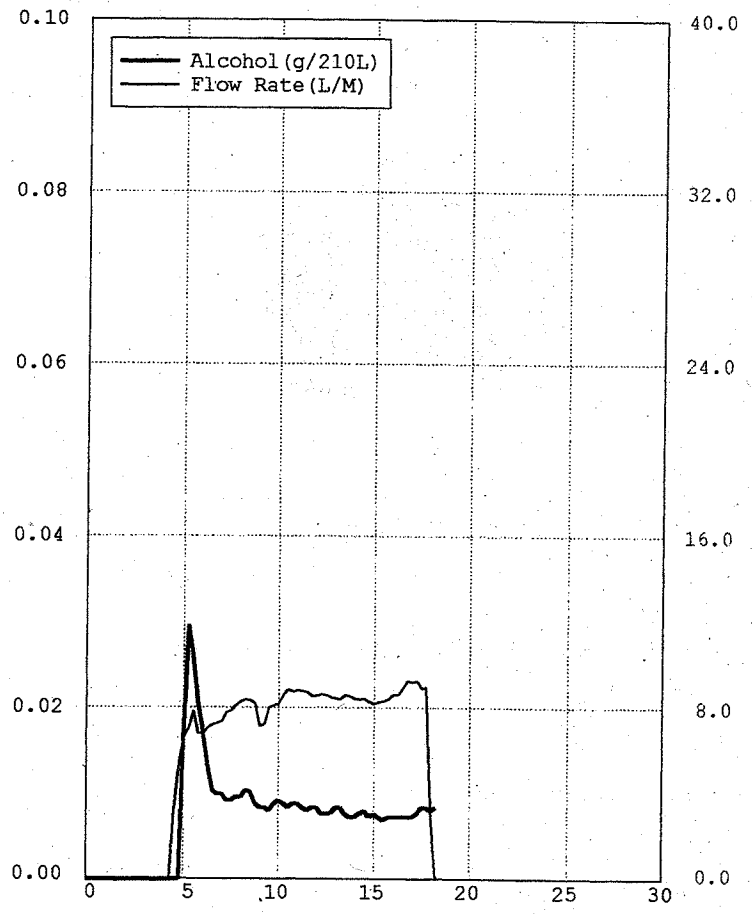
BLANK ERROR

Unable to purge to sufficient level

12/4/07

ALB

12/04/2007 13:53



DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

Installation Date:

Date: 12/04/2007
Time: 13:54:24

Subject Name:

Test Operator Name: A L B
Comment: TOLUENE TEST

BLANK TEST	0.000	13:55
INTERNAL STANDARD	PASSED	13:55
Xq = 0.1371 (1.858)		
SUBJECT SAMPLE (Vol=1.8L)	INVALID	13:55
X[1] = 0.0000 (0.0000) (0.0000)		

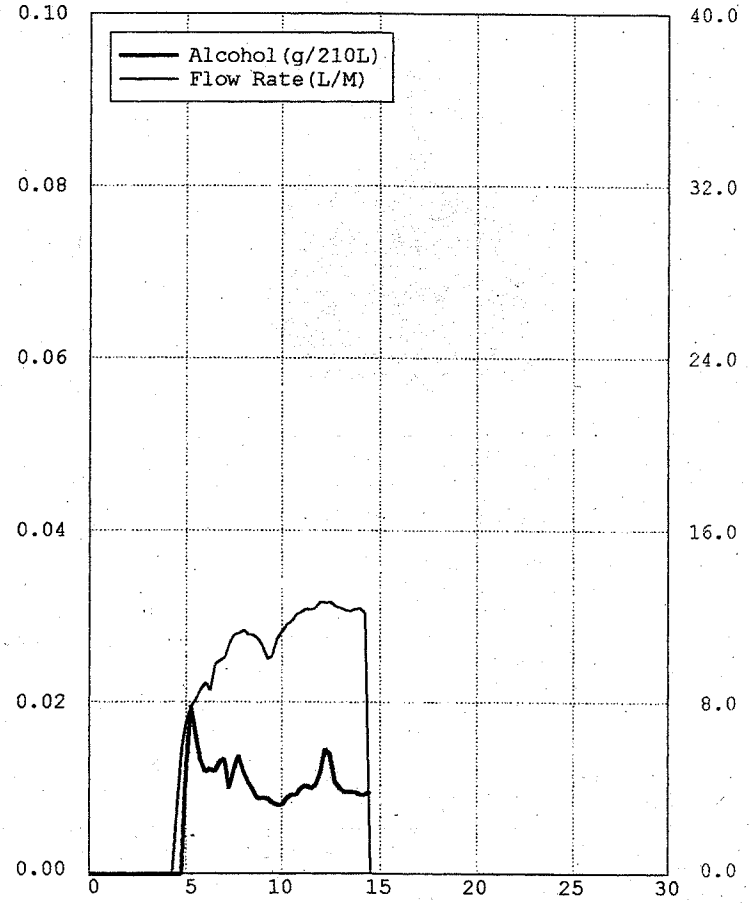
BLANK ERROR

Unable to purge to Ø

12/4

AJB

12/04/2007 13:56



DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

Installation Date:

Date: 12/04/2007
Time: 13:57:47

Subject Name:

Test Operator Name: A L B
Comment: TOLUENE TEST

BLANK TEST	0.000	13:58
INTERNAL STANDARD	PASSED	13:58
Xq = 0.1386 (0.77%)		
SUBJECT SAMPLE (Vol=1.7L)	INVALID	13:59
X[1] = 0.0000 (0.0000) (0.0000)		

BLANK ERROR

Spoke to Dave @ NPAS re: blank errors. Possible fiber from toluene tube contaminating sample chamber. Recommends cleaning sample chamber + retesting.

12/4 AB

12/04/2007 13:59

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

Installation Date:

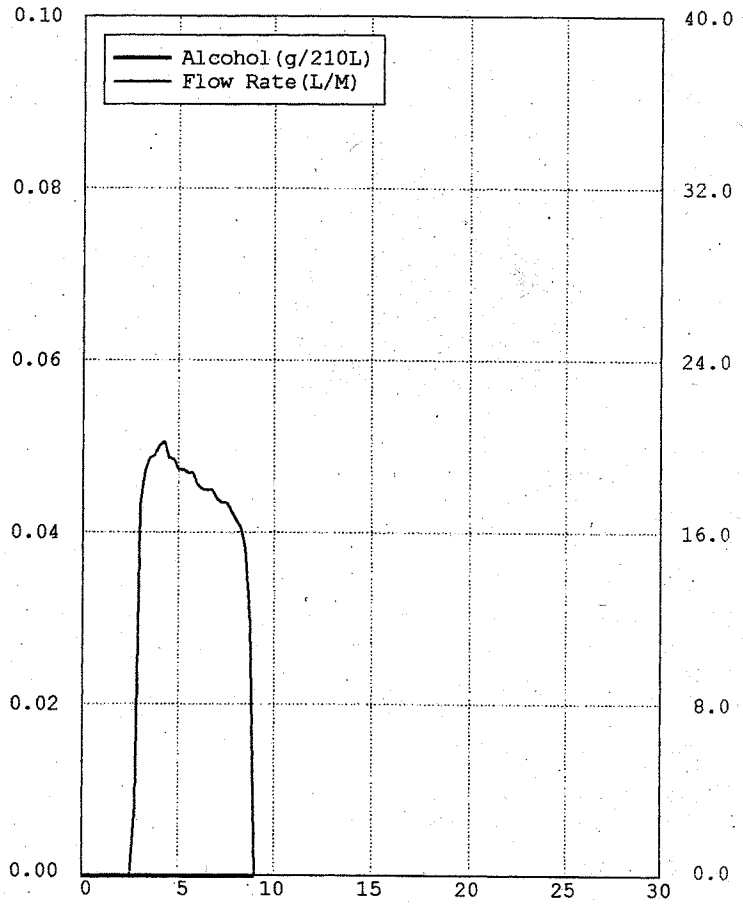
Date: 12/04/2007
Time: 14:03:53

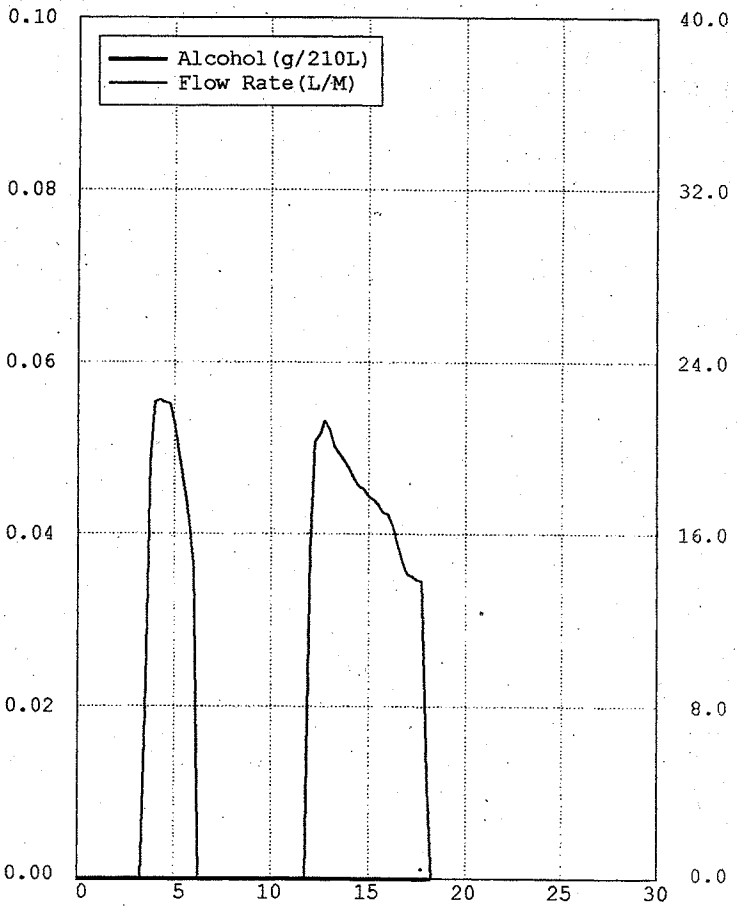
Subject Name:

Test Operator Name: A L B
Comment: BLANK TEST

BLANK TEST	0.000	14:04
INTERNAL STANDARD	PASSED	14:04
Xq = 0.1376 (1.47%)		
SUBJECT SAMPLE (Vol=1.8L)	0.000	14:05
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	14:05
SUBJECT SAMPLE (Vol=1.7L)	0.000	14:06
X[1] = 0.0000 (0.0000) (0.0000)		

USER ABORT





12/04/2007 14:06

11-12

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

Installation Date:

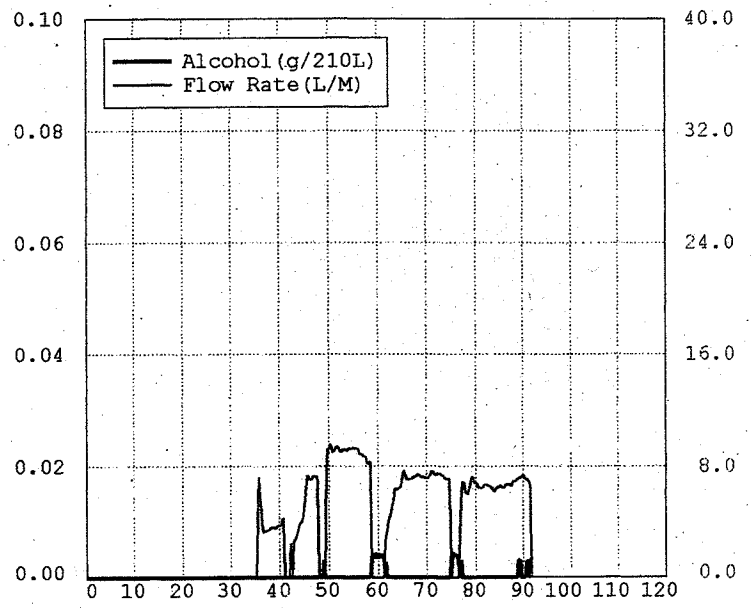
Date: 12/05/2007
Time: 08:40:01

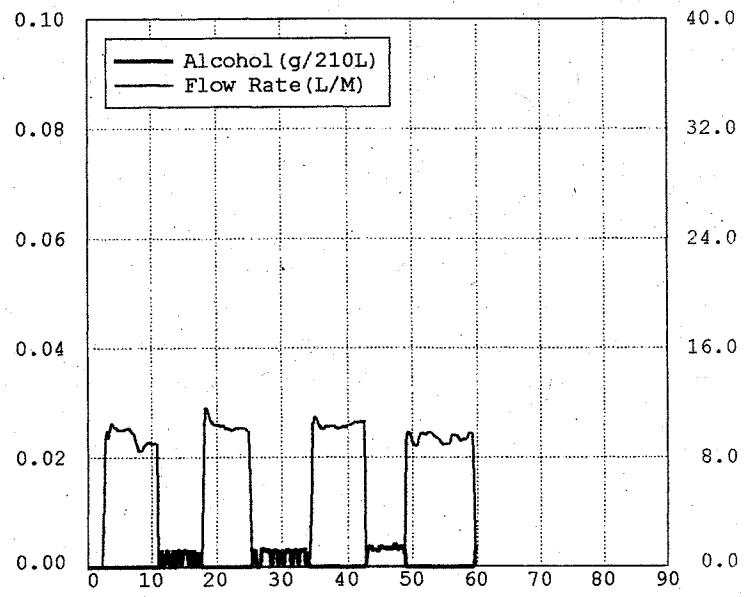
Subject Name: TEST TEST

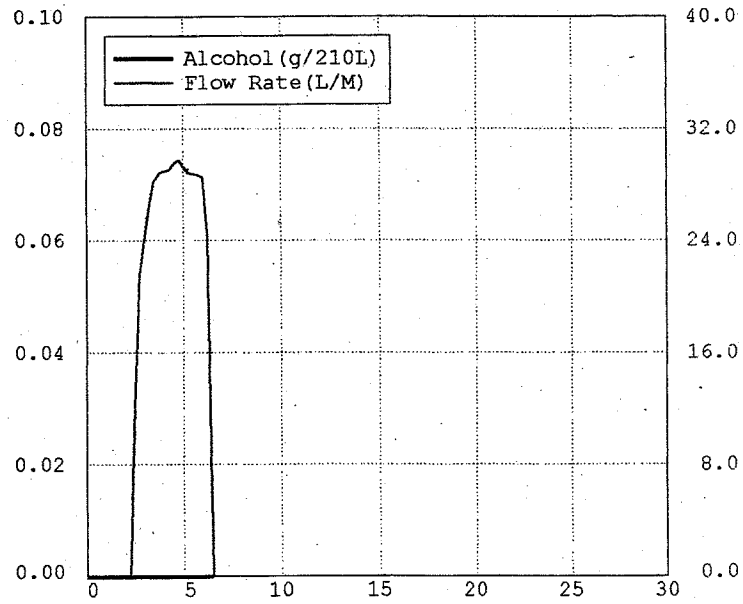
Test Operator Name: R J D
Comment: PURGE AND ZERO CHECK

BLANK TEST	0.000	08:40
INTERNAL STANDARD	PASSED	08:41
Xq = 0.1381 (1.15%)		
SUBJECT SAMPLE	INTERFERENCE	08:42
X[1] = 0.0046 (-0.0040) (-0.0046)		
BLANK TEST	0.000	08:43
SUBJECT SAMPLE (Vol=1.6L)	0.004	08:44
X[1] = 0.0043 (-0.0027) (-0.0032)		
BLANK TEST	0.000	08:45
SUBJECT SAMPLE (Vol=1.7L)	0.000	08:45
X[1] = 0.0000 (0.0000) (0.0000)		

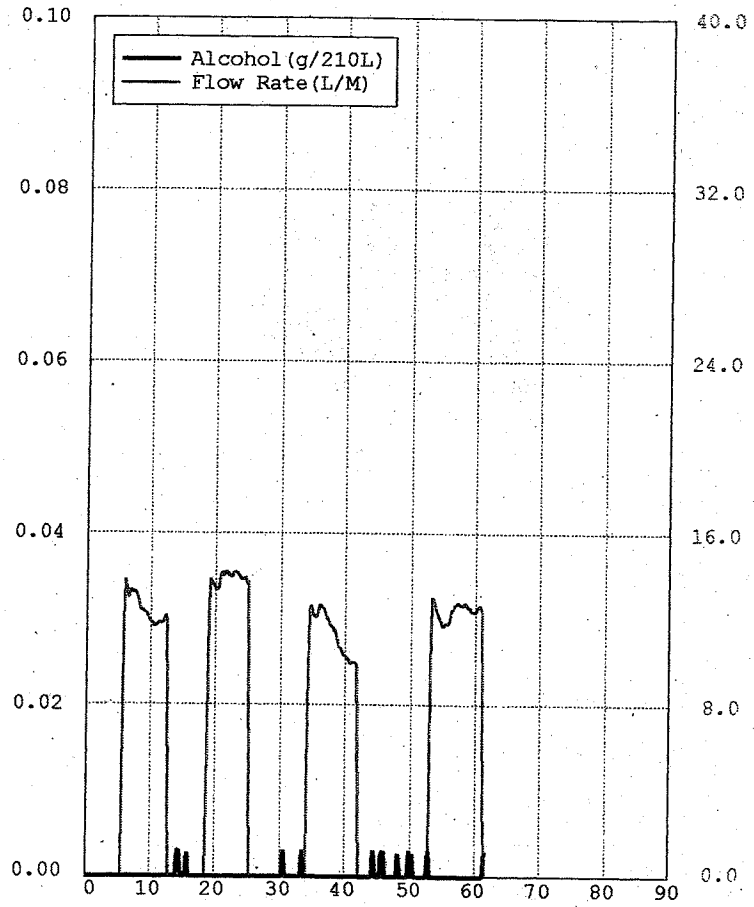
BLANK ERROR







12/05/2007 08:46



DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

Installation Date:

Date: 12/05/2007
Time: 08:49:01

Subject Name: TEST TEST

Test Operator Name: R J D
Comment: PURGE AND ZERO CHECK

BLANK TEST	0.000	08:49
INTERNAL STANDARD	PASSED	08:50
Xq = 0.1384 (0.90%)		
SUBJECT SAMPLE (Vol=1.7L)	0.003	08:51
X[1] = 0.0035 (-0.0019) (-0.0023)		

USER ABORT

12/05/2007 10:11

11-14

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

Installation Date:

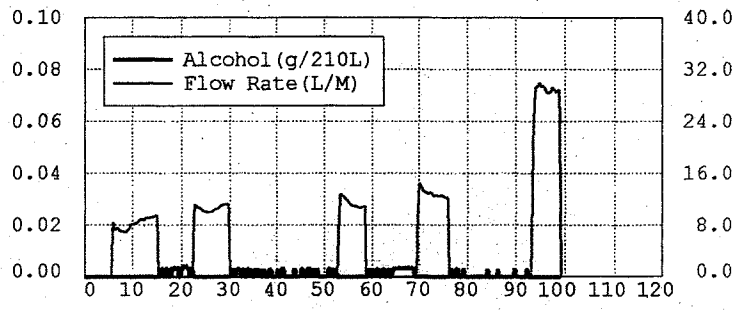
Date: 12/05/2007
Time: 09:17:16

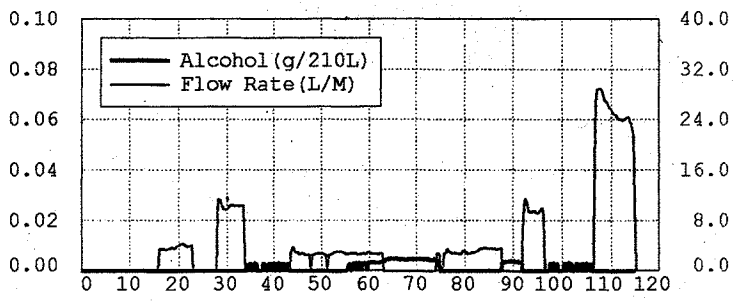
Subject Name: TEST TEST

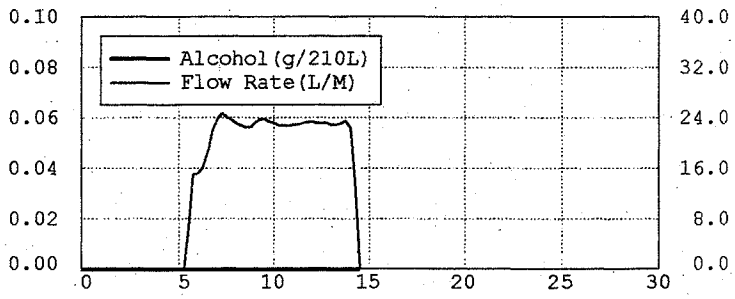
Test Operator Name: R J D
Comment: PURGE AND ZERO CHECK

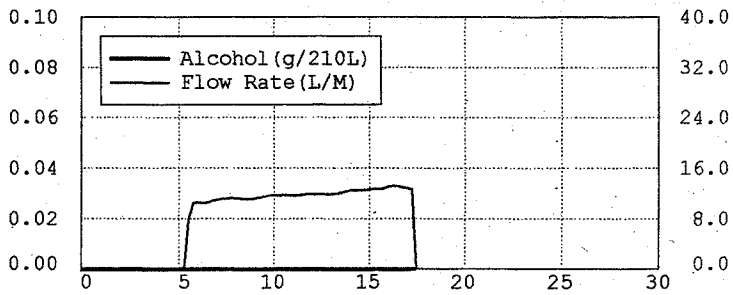
BLANK TEST	0.000	09:18
INTERNAL STANDARD	PASSED	09:18
Xq = 0.1379 (1.28%)		
SUBJECT SAMPLE (Vol=2.7L)	0.000	09:20
X[1] = 0.0002 (-0.0044) (0.0000)		
BLANK TEST	0.000	09:20
SUBJECT SAMPLE (Vol=3.5L)	0.003	09:22
X[1] = 0.0033 (0.0011) (-0.0010)		
BLANK TEST	0.000	09:23
SUBJECT SAMPLE (Vol=3.2L)	0.000	09:23
X[1] = 0.0017 (-0.0012) (-0.0010)		
BLANK TEST	0.000	09:24
SUBJECT SAMPLE (Vol=2.3L)	0.000	09:25
X[1] = 0.0027 (0.0003) (-0.0005)		
BLANK TEST	0.000	09:25
SUBJECT SAMPLE (Vol=1.7L)	0.003	09:27
X[1] = 0.0037 (-0.0007) (-0.0012)		
BLANK TEST	0.000	09:28
SUBJECT SAMPLE (Vol=2.0L)	INVALID	09:31
X[1] = 0.0000 (0.0000) (0.0000)		

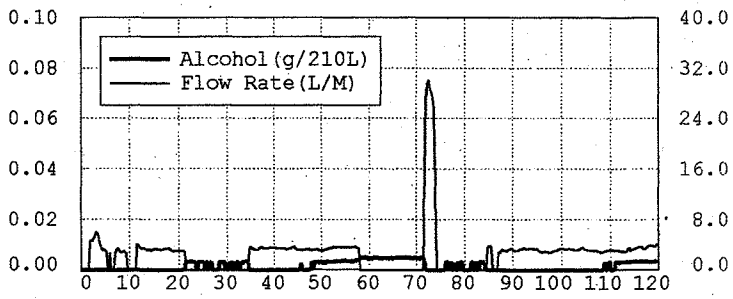
lamp voltage = 2.48
detector V = .853

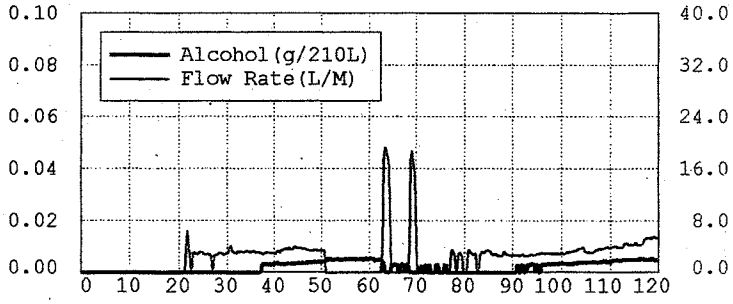












12/05/2007 09:31

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

Installation Date:

Date: 12/05/2007
Time: 09:40:21

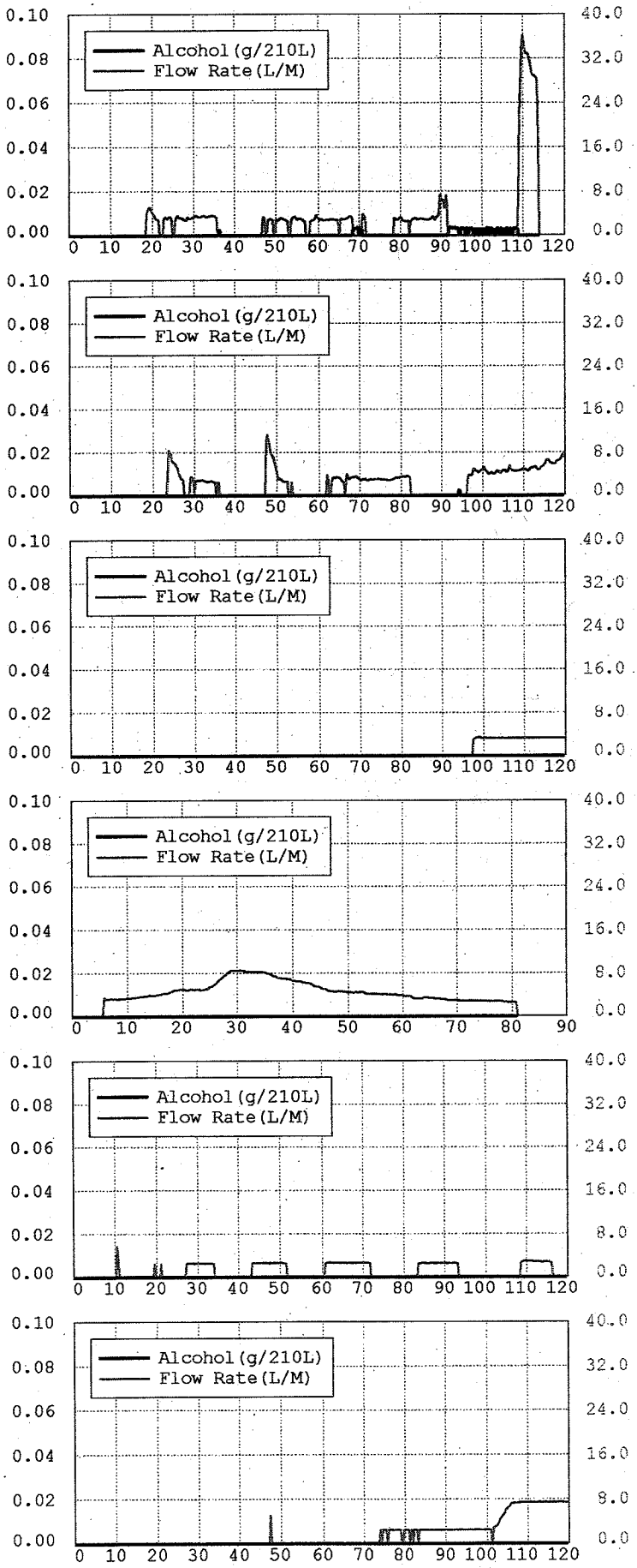
Subject Name: TEST TEST

Test Operator Name: R J D
Comment: PURGE AND ZERO CHECK

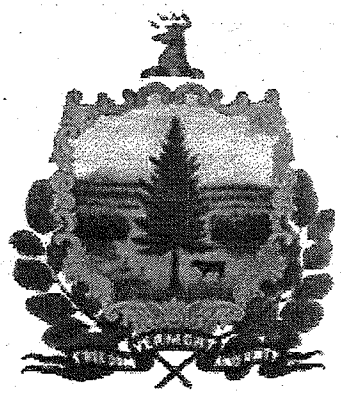
BLANK TEST	0.000	09:41
INTERNAL STANDARD	PASSED	09:41
Xq = 0.1381 (1.15%)		
* SUBJECT SAMPLE (Vol=2.4L)	0.000	09:43
X[1] = 0.0023 (-0.0014) (-0.0021)		
BLANK TEST	0.000	09:44
* SUBJECT SAMPLE (Vol=1.9L)	0.000	09:46
X[1] = 0.0028 (-0.0004) (-0.0004)		
BLANK TEST	0.000	09:46
SUBJECT SAMPLE	INCOMPLETE	09:49
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	09:49
SUBJECT SAMPLE (Vol=5.8L)	0.000	09:51
X[1] = 0.0000 (0.0000) (-0.0005)		
BLANK TEST	0.000	09:51
SUBJECT SAMPLE	INCOMPLETE	09:54
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	09:54
SUBJECT SAMPLE (Vol=2.0L)	0.000	09:56
X[1] = 0.0000 (0.0000) (0.0000)		

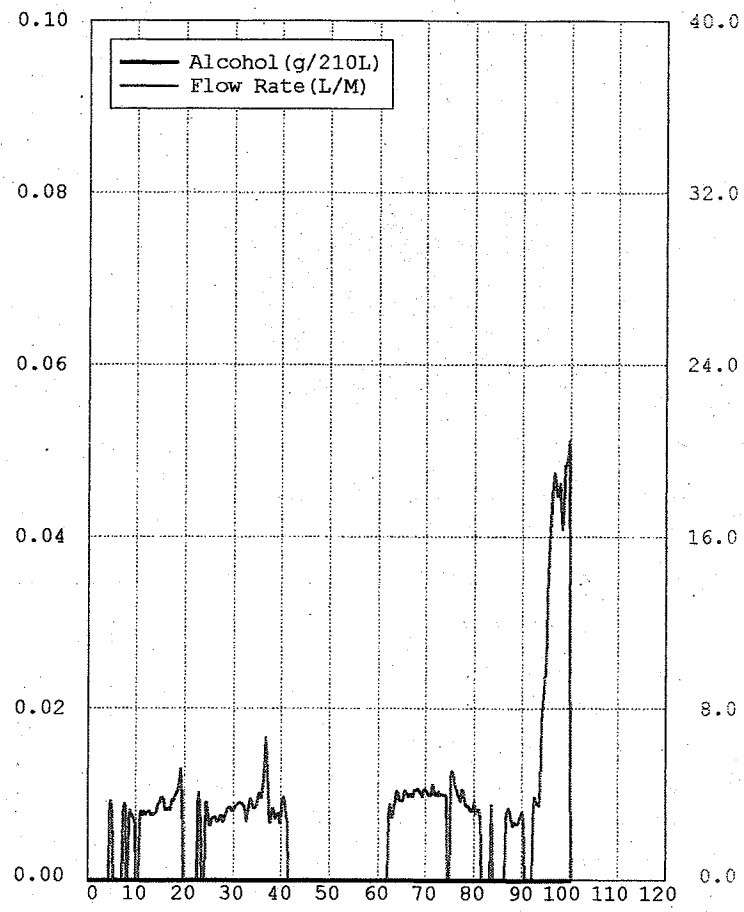
* first two tests are RJD's breath
final 4 tests are done using air tank

detector voltage ~~2.48~~ 2 at -.029
lamp V = 2.48



12/05/2007 09:57





DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

Installation Date:

Date: 12/05/2007
Time: 09:59:35

Subject Name: TEST TEST

Test Operator Name: D M R
Comment: PURGE AND ZERO CHECK

BLANK TEST	0.000	10:00
INTERNAL STANDARD	PASSED	10:00
Xq = 0.1379 (1.28%)		
SUBJECT SAMPLE (Vol=1.7L)	0.000	10:02
X[1] = 0.0017 (-0.0028) (-0.0031)		

USER ABORT

lamp V= 2.48
detector V = -.029

12/05/2007 10:13

11-17

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

Installation Date:

Date: 12/05/2007
Time: 10:03:53

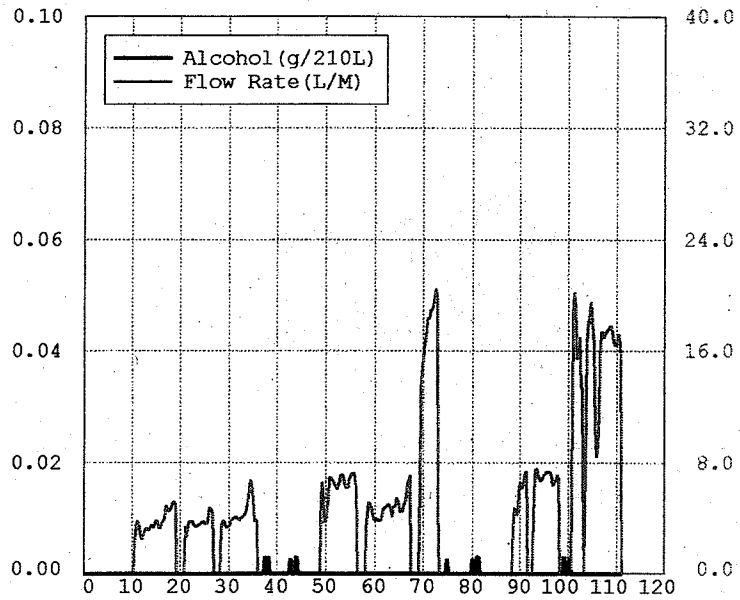
Subject Name: TEST TEST

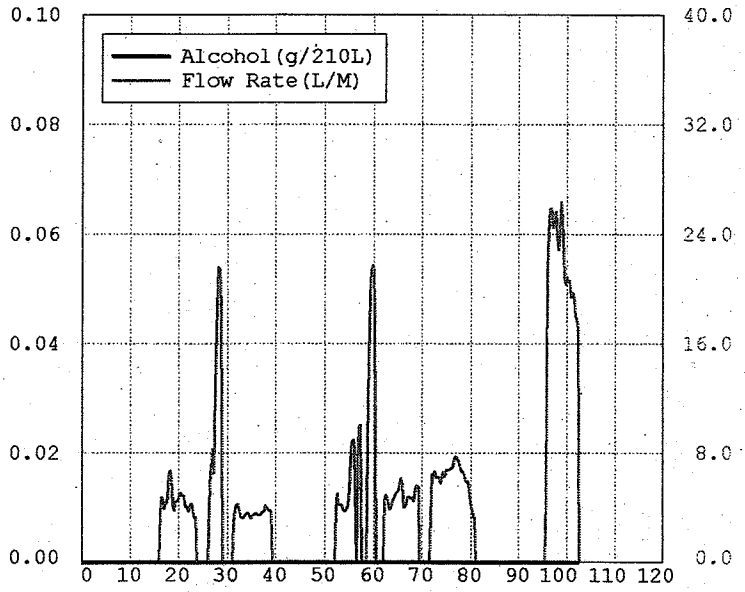
Test Operator Name: D M R
Comment: PURGE AND ZERO CHECK

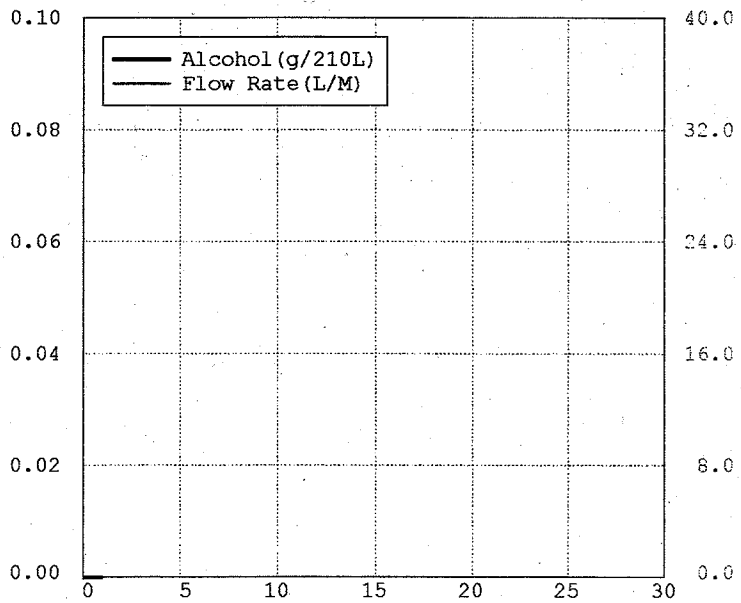
BLANK TEST	0.000	10:04
INTERNAL STANDARD	PASSED	10:04
Xq = 0.1384 (0.90%)		
SUBJECT SAMPLE (Vol=1.9L)	0.000	10:06
X[1] = 0.0029 (-0.0006) (-0.0020)		
BLANK TEST	0.000	10:07
SUBJECT SAMPLE (Vol=2.4L)	0.000	10:09
X[1] = 0.0019 (-0.0004) (-0.0021)		
BLANK TEST	0.000	10:10

USER ABORT

lamp V = 2.34
detector V = .853







12/05/2007 10:10

11-18

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

Installation Date:

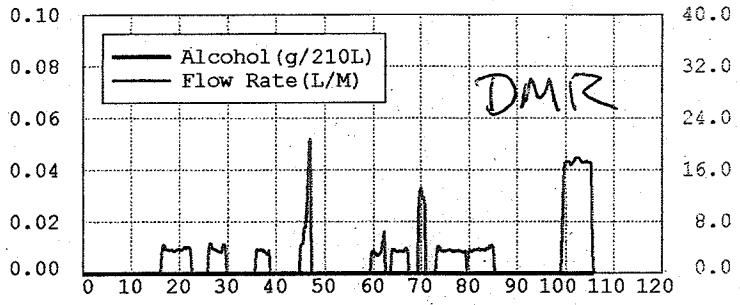
Date: 12/05/2007
Time: 10:15:37

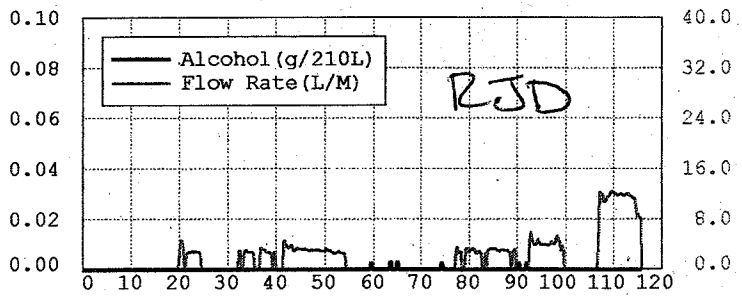
Subject Name: TEST TEST

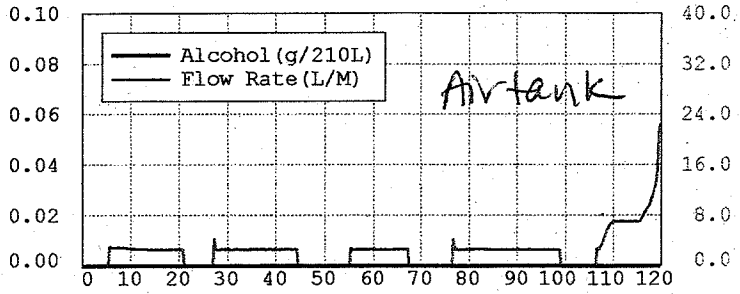
Test Operator Name: D M R
Comment: PURGE AND ZERO CHECK

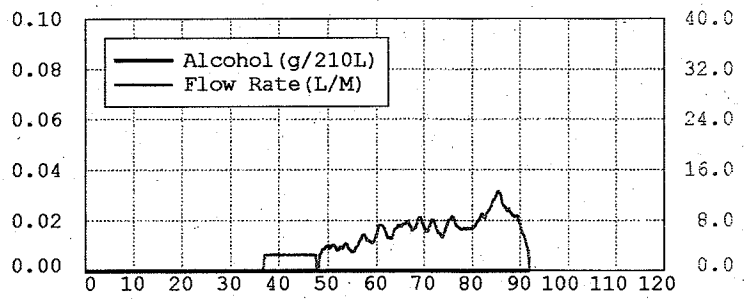
BLANK TEST	0.000	10:16
INTERNAL STANDARD	PASSED	10:16
Xq = 0.1383 (0.96%)		
SUBJECT SAMPLE (Vol=1.7L)	0.000	10:18
X[1] = 0.0022 (-0.0026) (-0.0024)		
BLANK TEST	0.000	10:19
SUBJECT SAMPLE (Vol=1.6L)	0.000	10:21
X[1] = 0.0021 (-0.0004) (-0.0019)		
BLANK TEST	0.000	10:22
SUBJECT SAMPLE (Vol=1.7L)	0.000	10:24
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	10:24
SUBJECT SAMPLE (Vol=4.8L)	0.000	10:26
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	10:27
SUBJECT SAMPLE (Vol=20.7L)	0.000	10:29
X[1] = 0.0000 (0.0000) (0.0000)		
BLANK TEST	0.000	10:29
SUBJECT SAMPLE (Vol=1.6L)	0.000	10:31
X[1] = 0.0000 (0.0000) (0.0000)		

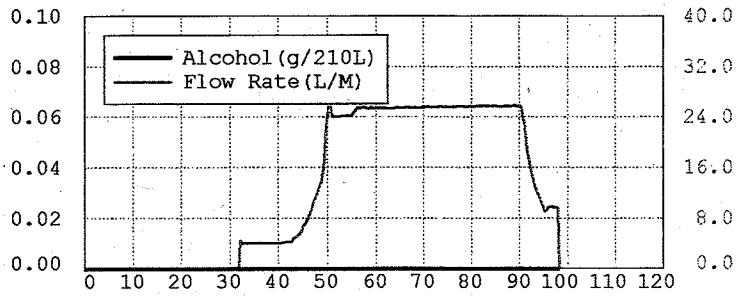
lamp V= 2.22
detector V= 1.082

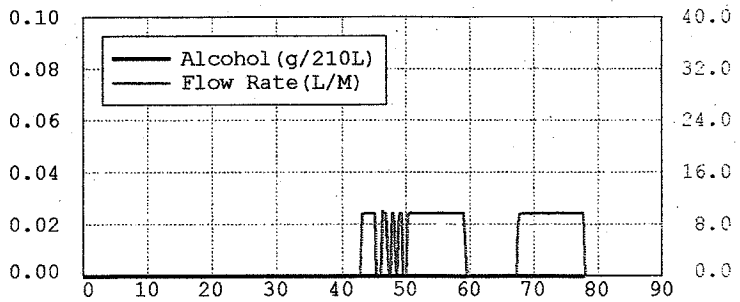












12/05/2007 10:31

11-19

ACCURACY AND PRECISION TEST

STATE OF VERMONT

DataMaster DMT: 102606

Date: 12/05/2007
Time: 10:33:17

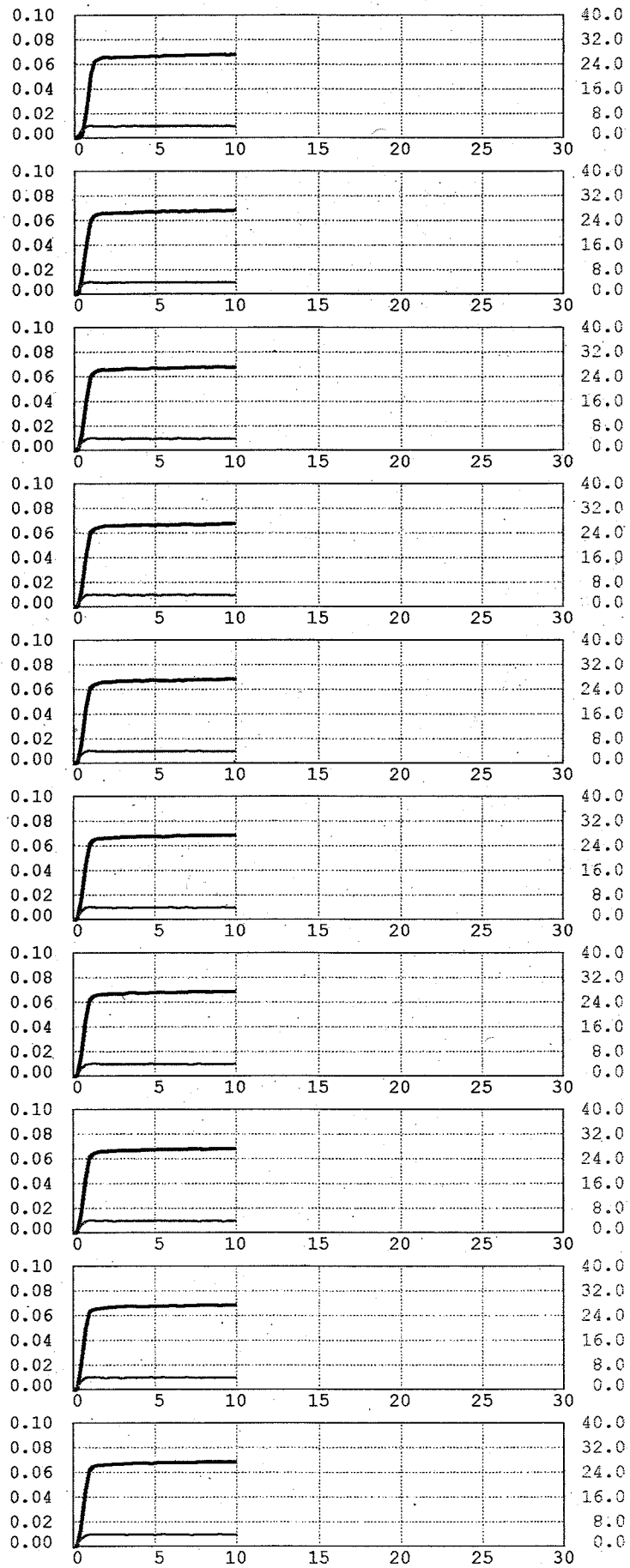
SUPERVISOR NAME: DMR 0.0821 PRIME

SOLUTION LOT #: 07-09-080
SOLUTION CONCENTRATION: 0.082

BLANK TEST		0.000	10:34
INTERNAL STANDARD		PASSED	10:34
Xq = 0.1388 (0.64%)			
SIMULATOR VAPOR (34.1°C)		0.067	10:34
X[1] = 0.0670	(0.0000)	(-0.0018)	
SIMULATOR VAPOR (34.1°C)		0.067	10:35
X[1] = 0.0677	(0.0010)	(-0.0014)	
SIMULATOR VAPOR (34.1°C)		0.067	10:36
X[1] = 0.0670	(-0.0005)	(-0.0029)	
SIMULATOR VAPOR (34.0°C)		0.067	10:37
X[1] = 0.0671	(-0.0003)	(-0.0020)	
SIMULATOR VAPOR (34.0°C)		0.067	10:38
X[1] = 0.0672	(0.0004)	(-0.0016)	
SIMULATOR VAPOR (34.0°C)		0.068	10:39
X[1] = 0.0681	(0.0001)	(-0.0021)	
SIMULATOR VAPOR (34.1°C)		0.067	10:40
X[1] = 0.0677	(0.0012)	(-0.0020)	
SIMULATOR VAPOR (34.1°C)		0.067	10:41
X[1] = 0.0674	(-0.0009)	(-0.0025)	
SIMULATOR VAPOR (34.1°C)		0.067	10:42
X[1] = 0.0676	(0.0009)	(-0.0020)	
SIMULATOR VAPOR (34.1°C)		0.068	10:43
X[1] = 0.0680	(0.0005)	(-0.0015)	
BLANK TEST		0.000	10:44

Average = 0.0672
Std Dev = 0.0004

Avg [x] 88 b/c voltages adjusted from calibration conditions
lamp V = 2.22
detector V = 1.082



12/05/2007 10:44

11-20

DUI Subject Test

STATE OF VERMONT

DataMaster DMT: 102606

Installation Date:

Date: 12/05/2007
Time: 10:44:52

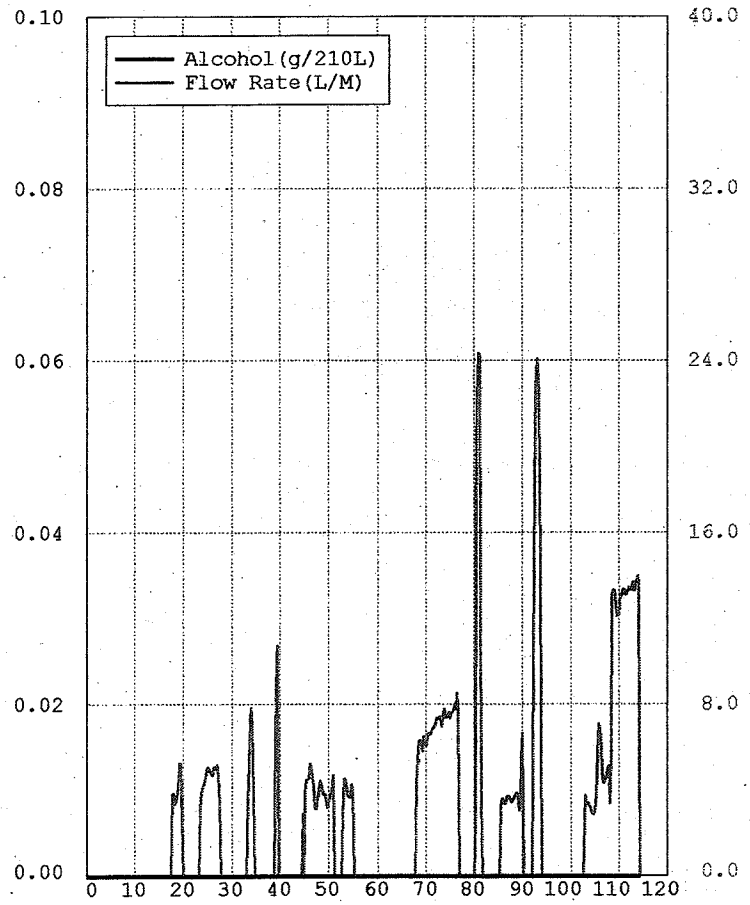
Subject Name: TEST TEST

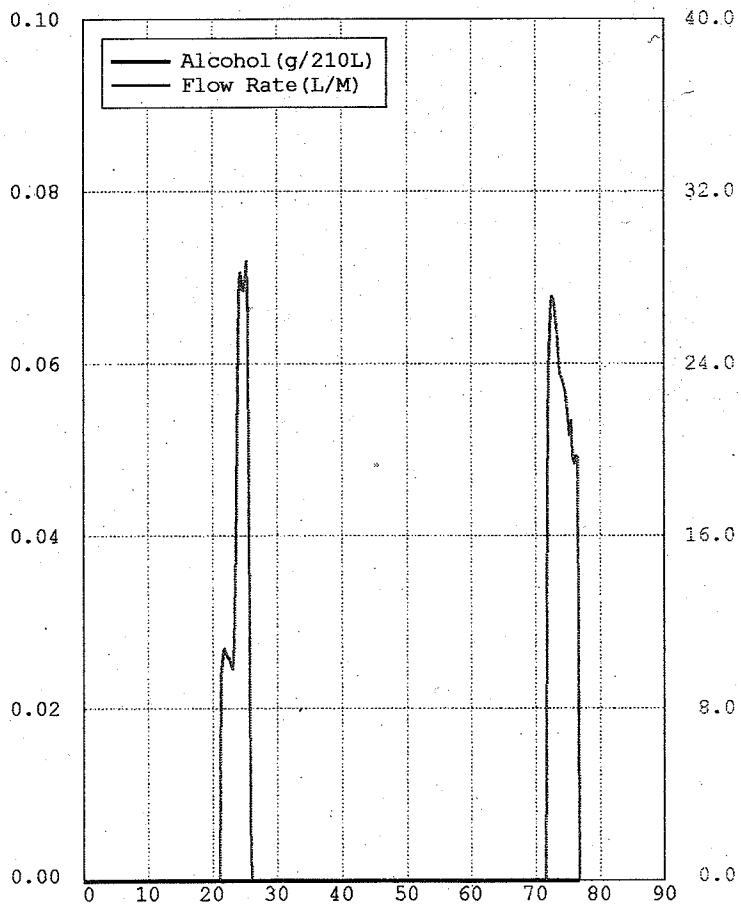
Test Operator Name: D M R
Comment: PURGE AND ZERO CHECK

BLANK TEST	0.000	10:45
INTERNAL STANDARD	PASSED	10:45
Xq = 0.1389 (0.58%)		
SUBJECT SAMPLE (Vol=1.6L)	0.000	10:47
X[1] = 0.0020 (-0.0019) (-0.0024)		
BLANK TEST	0.000	10:48
SUBJECT SAMPLE (Vol=1.8L)	0.000	10:50
X[1] = 0.0015 (-0.0011) (-0.0025)		

USER ABORT

lamp voltage = 2.22
detector V = 1.082





12/05/2007 10:51

Section 12: Live Subject Tests

This Instrument not tested for this specification

Section 13: Communication Notes

10/11/07 DMT 102606

Received & ~~powered up~~ 10/11 AB turned on
Image on screen "wobbly" at first, after
checking Tech Screen wobble went away ALB
Spoke w/ Scott @ NPAS regarding
fuzzy screen. Was instructed on checking
plug on circuit board. All plugs ok.
Screen no longer fuzzy/wobbly ALB

10/11/07 ALB
Performed Power-Up protocol
- when printing cal-factors error
msg "Unable to load image" report
printed ok
- ~~Did not automatically print diagnostic~~
~~report.~~ forgot to activate print manual ALB 10/11/07
- During A+P test .162 ran out of
range too high Retried using .082 Sdin
Passed ok

Instrument Passed Power-Up test
10/11/07 ALB

10/15/07 SEH
Performed Linearity and Diagnostic Testing
SEH 10/19/07

10/15/07 Instrument recalibrated before Linearity 10/16/07 dES

10/17/07 Performed linearity and volume acceptance test

10/18/07 SEH
Enlarged BNC Cable Connector from 5/8 to 7/4 inch.
10/18/07 SEH

10/26/07
.08 Solution failed low due to depletion. Installed new solution and reran dES

12/5/07

12/3/07 Began toluene testing. Loaded tygon tubing w/ moly-siv w/ glass wool at either end. Loaded moly-siv w/ toluene vapor. Attached toluene/tygon to sim port and attempted A & P test. Glass wool was too compact to allow air flow. ~~All~~ Caused pump error. Attached tygon/toluene to breath tube and attemped to force air through using plunger. Was unable to generate adequate flow.

12/4/07 Reloaded moly-siv w/ toluene. Removed some of the glass wool to allow for air flow. Attached toluene/tygon to breath tube and used plunger to force air through. Resulted in invalid sample DMT unable to purge to adequate level after toluene test. Reported Blank error. Retested same as before, received blank error. Retested as before, this time blocked breath tube to check to see if air was being pulled through, air is being pulled in. Noticed when purge was blocked, apparent alcohol level displayed jumped significantly and stayed at higher level. Retested verify problem. Ran a blank sample test to check for blank problems. ~~Th~~ No problems on blank tests. Spoke to Dave @ NPAS re: purge problems. He suggested maybe a piece of glass wool fiber could be contaminating sample chamber. VOHL should use condensed air to blow out spl chamber & retest.

12/5/07
RJD & ALB testing blank errors to try and rectify the problem. Noticed on tech screen that the detector voltage is much higher today than on previous days (12/5 = .8 11/6 = .3)

Ran blank tests and found with low air flows and varying volumes detector noise caused apparent alcohol readings

Adjusted lamp voltage from 2.34 w/ detector at .853 to lamp voltage 2.48 w/ detector at -.029.

Tested using air tank @ low and varying flow rates. External flow rate meter registered 2.9L/min as minimum flow rate necessary for DMT to report flow.

W/ lamp voltage @ 2.48 & detector at -.029 found less noise / apparent alcohol readings

Readjusted to lamp V = 2.34, detector V = .853 and found noise reappeared.

(Reports from this testing are located in the error reports section (sec #11)

12/5/07

Adjusted lamp V = 2.22, detector V = 1.082

Ran a .082 etoH solution
Ran a blank breath test
Was unable to generate noise/error
as before

2/26/08 SH
Replaced PIC Processor with Rev 2.05 Per NPAS
SH To Solve Communication error SH 2/26/08