100144

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SECTION 1

RESULTS

Packing List

From: National Patent Analytical Systems Inc.
2090 Harrington Mem. Rd., Mansfield, Ohio 44903

Cust No. VT1678J **Ord Date** 1/31/12
Sales Order No. 45297

Ship Date 2/8/12
Packing List No. 69604

Cust Purch Ord No. KIRK KIMBALL

Ship To:
Vermont Dept of Health
195 Colchester Avenue
Burlington Vt 05401

Bill To:
Vermont Dept of Health
P O Box 70
Burlington Vt 05402

25.00 **Freight**

Attn: Ship Via FedEx

Comments Service for Instrument Serial Number 100144

Inv Part No	Quantity Ordered	This Shipment	Back Ordered	Total Ship To Date	Description	Customer Part No.	Drawing Part No. / Rev
9DMT	1.0	1		1.0	DATAMASTER DMT SERVICE RETURN		
S/N 100144						None Given	No Draw # / NONE
Serial Nos.	100144						

Opened 02/13/12

National Patent
Analytical Systems, Inc.

On this date 1/31/12, NPAS received instrument # 100144.

The instrument was sent from the Vermont Department of Health (VDH) so that NPAS could install updated software as well as inspect the instrument. At NPAS' request VDH provided copies of the Technical Support Inquiries (TSI) regarding the instrument. The calibration history of the instrument remained in the instrument so that NPAS could review its history.

NPAS examined the internal configuration of the instrument and did / did not find physical manipulation or tampering of the components located within the instrument itself.

NPAS did performance and accuracy checks on a certified 0.100 ethanol standard. NPAS found that the instrument passed / failed the performance and accuracy checks.

NPAS reviewed the instrument as to its DataMaster DMT Inspection, QA and Conformance Testing Procedure and the instrument performed / did not perform within its procedure.

NPAS examined the calibration records and did / did not observe anomalies.

NPAS testing indicates that there is no reason why this instrument would not have performed accurately and reliably in the field.

Print Name of Evaluator: Michael Barbely

Signature of Evaluator and Date: Michael Barbely 2/1/12

Print Name of Reviewer: DAVID RADOMSKI

Signature of Reviewer and Date: David Radomski 2/6/12

opened 02/13/12 SRm

2090 Harrington Memorial Road, Mansfield, Ohio 44901 Ph 419-526-6727 Fax 419-526-9446

DataMaster DMT Serial Number 100144

Power Up	CAL Factor	In-House & 2nd Source Calibration Check			Simulator Assignment	Certification	0.01% Acet. in 0.08% EtOH	0.04% MeOH in H_2O	0.04% IPA in H_2O	0.01% Acet. in 0.04% EtOH	0.02% Acet. in 0.04% EtOH	0.04% MeOH in 0.08% EtOH	0.04% IPA in 0.08% EtOH
		NIST Temp. °C	Lot. #	Result (g/210L)									
02/14/12 SH KEK	0.961866 02/14/12 SH KEK	34.0	12-39-100	0.099 02/14/12 SH KEK		02/15/12 SH KEK	100% 02/15/12 SH KEK	100% 02/17/12 SH KEK	100% 02/17/12 SH KEK	100% KEK 2-16-12 SH	100% KEK 2-16-12 SH	100% 02/17/12 SH KEK	100% 02/17/12 SH KEK
		34.0°	Lot# 11250	0.098 02/14/12 SH KEK									

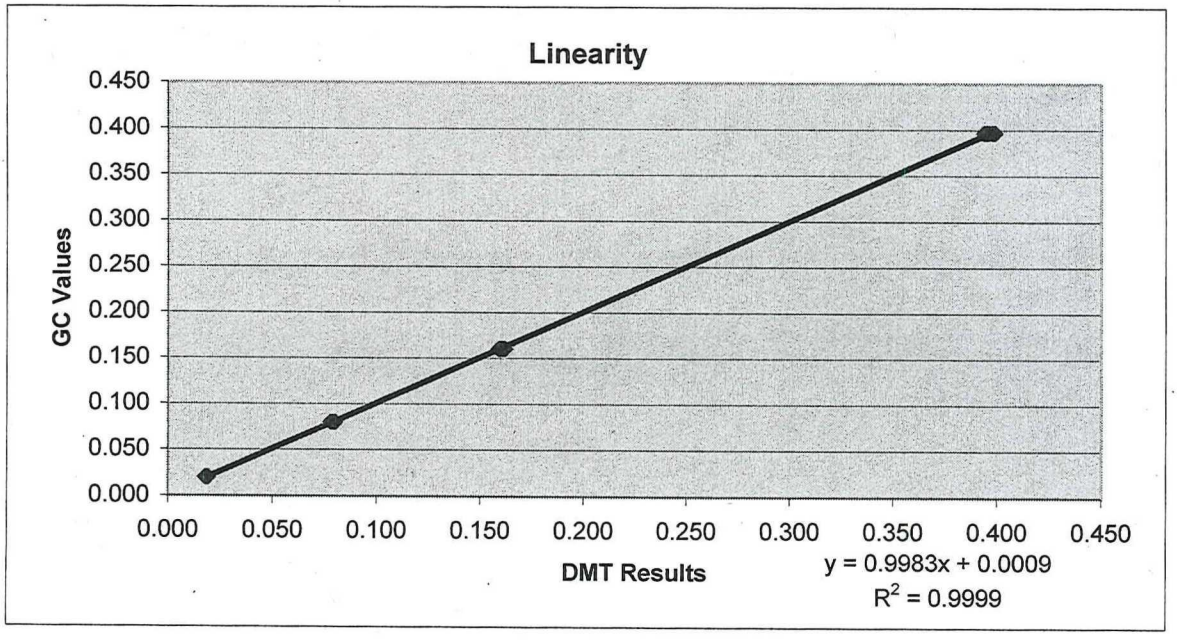
Linearity Test #1	Linearity Test #2	Linearity Test #3	Linearity Test #4	Linearity Test #5	Data Download	In-House & 2nd Source Calibration Check		
						NIST Temp.°C	Lot. #	Result (g/210L)
02/15/12 SH KEK	02/16/12 SH KEK	02/16/12 SH KEK	02/17/12 SH KEK	02/17/12 SH KEK	02/17/12 SH KEK	34.0 2/17/12	12-39-100	0.098 02/17/12 SH KEK
						34.1 2/17/12	Lot# 11250	0.099 02/17/12 SH KEK

Notes: Power-Up started 02/13/12 SH KEK
H_2O for calibration NIST Temp: 34.0°C 02/14/12 SH KEK
Calibration solution NIST Temp: 34.1°C 02/14/12 SH KEK

Analyst: 02/21/12 **Reviewer:** 2/21/12 **Reviewer:** KEK 2-21-12

DataMaster DMT Serial Number 100144

Operator	Date	GC Value	DMT Average	Std Dev	% Recovery
SRM	2/15/2012	0.020	0.019	0.000	95
KLK	2/15/2012	0.080	0.079	0.000	98
SRM	2/15/2012	0.160	0.160	0.000	100
SRM	2/15/2012	0.397	0.396	0.000	99
KLK	2/16/2012	0.020	0.019	0.000	95
KLK	2/16/2012	0.080	0.079	0.000	98
SRM	2/16/2012	0.160	0.162	0.000	101
SRM	2/16/2012	0.397	0.399	0.000	100
SRM	2/16/2012	0.020	0.019	0.000	95
KLK	2/16/2012	0.080	0.080	0.000	100
SRM	2/16/2012	0.397	0.398	0.001	100
KLK	2/16/2012	0.160	0.161	0.000	100
KLK	2/17/2012	0.020	0.019	0.000	95
KLK	2/17/2012	0.080	0.078	0.000	97
KLK	2/17/2012	0.160	0.160	0.000	100
KLK	2/17/2012	0.397	0.395	0.000	99
SRM	2/17/2012	0.020	0.018	0.001	90
SRM	2/17/2012	0.080	0.078	0.000	97
SRM	2/17/2012	0.160	0.159	0.000	99
SRM	2/17/2012	0.397	0.394	0.000	99
			Average	0.0001	98
			Std Dev	0.0003	
			Range		90 - 101



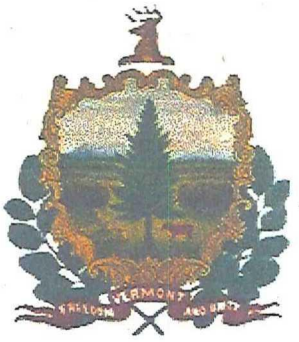
Log On Record History

Test Date	Test Time	Name
02/14/2012	07:52:43	Kirk Kimball
02/14/2012	10:00:50	Steven Merrill
02/14/2012	13:51:39	Kirk Kimball
02/14/2012	14:05:33	Steven Merrill
02/14/2012	14:58:22	Steven Merrill
02/14/2012	15:58:13	Steven Merrill
02/15/2012	07:32:29	Kirk Kimball
02/15/2012	08:06:12	Steven Merrill
02/15/2012	08:46:41	Steven Merrill
02/16/2012	07:22:00	Kirk Kimball
02/16/2012	07:41:50	Kirk Kimball
02/16/2012	08:37:56	Kirk Kimball
02/16/2012	10:51:26	Steven Merrill
02/16/2012	13:23:04	Steven Merrill
02/16/2012	13:55:46	Steven Merrill
02/16/2012	14:02:01	Kirk Kimball
02/16/2012	15:24:59	Kirk Kimball
02/17/2012	06:49:56	Kirk Kimball
02/17/2012	07:07:03	Kirk Kimball
02/17/2012	07:56:01	Kirk Kimball
02/17/2012	09:42:53	Steven Merrill
02/17/2012	11:45:16	Steven Merrill
02/17/2012	13:16:09	Steven Merrill
02/17/2012	14:40:26	Steven Merrill

SECTION 2

POWER UP TESTS

DIAGNOSTIC RESULT



DataMaster DMT: 100144
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 02/14/2012
Test Time: 10:01:11

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.9°C
Breath Tube = 46.9°C
Digital Sim = 0.0°C

SETTINGS
Lamp Voltage = 1.63 V
Cooler Voltage = 1.61 V
Bias Voltage = 80 V
Chopper Freq = 530 Hz

PUMP INFO
Flow Rate = 5.369 L/M

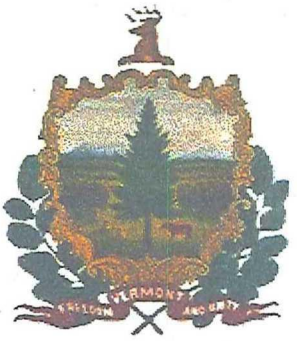
DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.0114	-0.0077
MIN(V)	-0.0134	-0.0094

FILTER INFO
Filter 1 -0.009 Zero = true
Filter 2 0.629 Zero = true
Filter 3 1.532 Zero = true

CALIBRATION CHECK
Xq = 0.079 0.76%

DIAGNOSTIC RESULT



DataMaster DMT: 100144
Location:
Calibration Date:
Certification Date:
Installation Date:
Test Date: 02/14/2012
Test Time: 14:05:47

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 49.1°C
Breath Tube = 47.9°C
Digital Sim = 0.0°C

SETTINGS
Lamp Voltage = 1.63 V
Cooler Voltage = 1.61 V
Bias Voltage = 80 V
Chopper Freq = 530 Hz

PUMP INFO
Flow Rate = 5.452 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.0122	-0.0094
MIN(V)	-0.0136	-0.0104

FILTER INFO
Filter 1 -0.009 Zero = true
Filter 2 0.630 Zero = true
Filter 3 1.533 Zero = true

CALIBRATION CHECK
Xq = 0.080 0.65%

CALIBRATION REPORT

DataMaster DMT: 100144
Calibration Date: 02/14/2012
Calibrated by: STEVEN R MERRILL
Lot: 12-33-100

Ca	= 0.100		
CAL	= 0.961866	0.800	<= CAL < 1.200
b1	= 0.000	0.000	<= b1 < 0.004
b2	= 0.003	0.002	<= b2 < 0.010
b3	= 0.000	0.000	<= b3 < 0.004
Xq	= 0.080	0.050	<= Xq < 0.200
a21	= 1.131350	1.050	<= a21 < 1.300
a31	= 0.419461	0.300	<= a31 < 0.800

Performed by _____ Date 02/14/2012

DIAGNOSTIC RESULT

DataMaster DMT: 100144
Location:
Calibration Date: 02/14/2012
Certification Date:
Installation Date:
Test Date: 02/14/2012
Test Time: 15:08:16

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.9°C
Breath Tube = 47.0°C
Digital Sim = 0.0°C

SETTINGS
Lamp Voltage = 1.63 V
Cooler Voltage = 1.61 V
Bias Voltage = 80 V
Chopper Freq = 531 Hz

PUMP INFO
Flow Rate = 5.356 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0006	0.0039
MIN(V)	-0.0010	0.0022

FILTER INFO
Filter 1 0.002 Zero = true
Filter 2 0.639 Zero = true
Filter 3 1.545 Zero = true

CALIBRATION CHECK
Xq = 0.080 0.22%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100144

Date: 02/14/2012
Time: 15:59:43

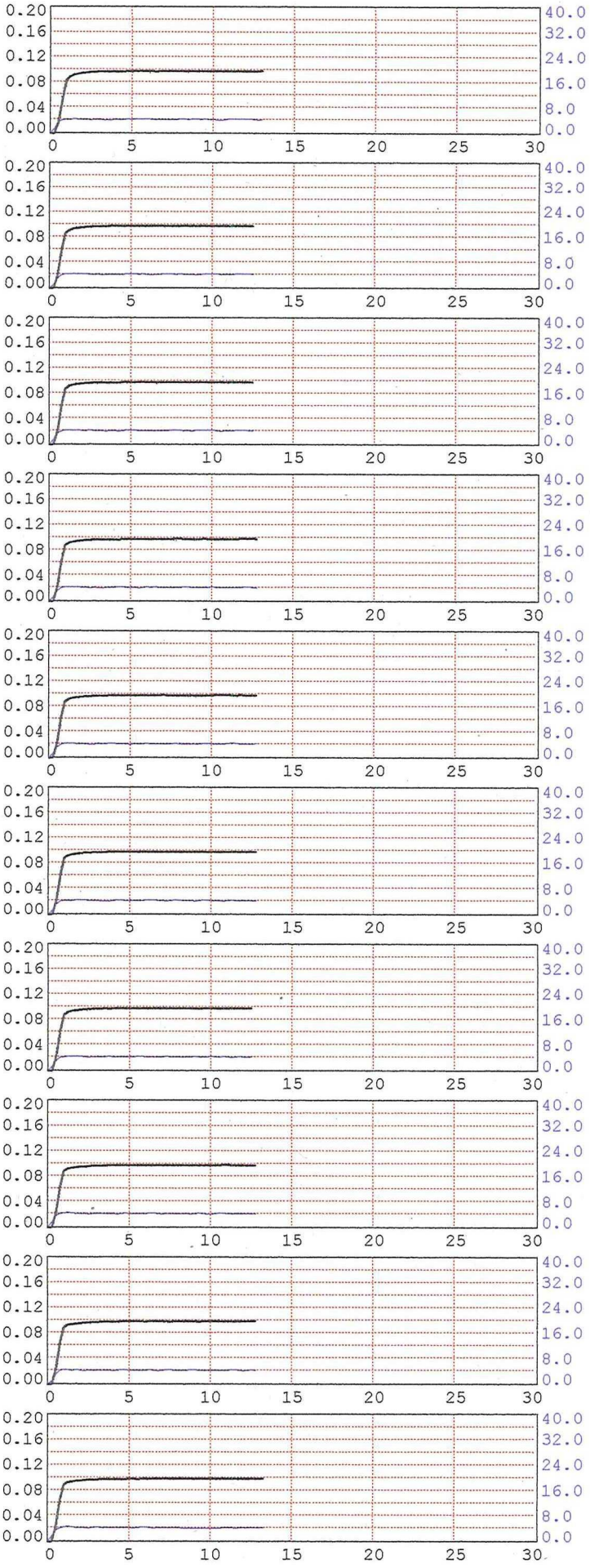
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: GUTH 11250
SOLUTION CONCENTRATION: 0.100

BLANK TEST	0.000	16:00
CALIBRATION CHECK	PASSED	16:00
SIMULATOR VAPOR 34.1°C	0.099	16:01
SIMULATOR VAPOR 34.1°C	0.098	16:02
SIMULATOR VAPOR 34.1°C	0.098	16:03
SIMULATOR VAPOR 34.0°C	0.099	16:04
SIMULATOR VAPOR 34.2°C	0.099	16:05
SIMULATOR VAPOR 34.1°C	0.099	16:06
SIMULATOR VAPOR 34.2°C	0.098	16:07
SIMULATOR VAPOR 34.1°C	0.098	16:08
SIMULATOR VAPOR 34.1°C	0.099	16:09
SIMULATOR VAPOR 34.1°C	0.099	16:10
BLANK TEST	0.000	16:11

Average = 0.098
Std Dev = 0.000

2nd Source Cal Check 02/14/12 sm



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100144

Date: 02/14/2012
Time: 16:16:08

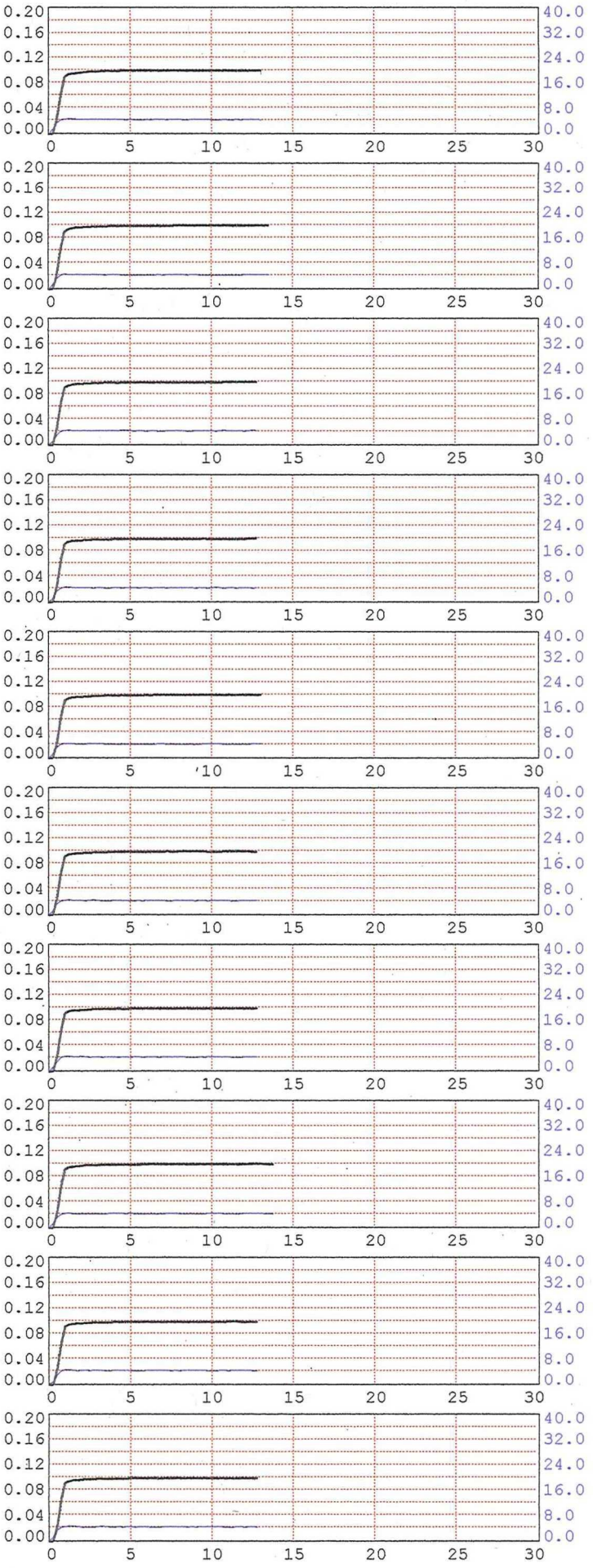
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-39-100
SOLUTION CONCENTRATION: 0.100

BLANK TEST	0.000	16:17
CALIBRATION CHECK	PASSED	16:17
SIMULATOR VAPOR 33.8°C	0.100	16:17
SIMULATOR VAPOR 33.8°C	0.100	16:18
SIMULATOR VAPOR 33.8°C	0.099	16:19
SIMULATOR VAPOR 33.8°C	0.099	16:20
SIMULATOR VAPOR 33.8°C	0.100	16:21
SIMULATOR VAPOR 33.8°C	0.099	16:22
SIMULATOR VAPOR 33.8°C	0.099	16:23
SIMULATOR VAPOR 33.8°C	0.100	16:25
SIMULATOR VAPOR 33.8°C	0.099	16:26
SIMULATOR VAPOR 33.9°C	0.099	16:27
BLANK TEST	0.000	16:27

Average = 0.099
Std Dev = 0.000

In-House Cal Check 02/14/12 SM



DIAGNOSTIC RESULT

DataMaster DMT: 100144
Location:
Calibration Date: 02/14/2012
Certification Date:
Installation Date:
Test Date: 02/15/2012
Test Time: 07:32:30

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 49.0°C
Breath Tube = 47.2°C
Digital Sim = 0.0°C

SETTINGS
Lamp Voltage = 1.63 V
Cooler Voltage = 1.61 V
Bias Voltage = 80 V
Chopper Freq = 532 Hz

PUMP INFO
Flow Rate = 5.418 L/M

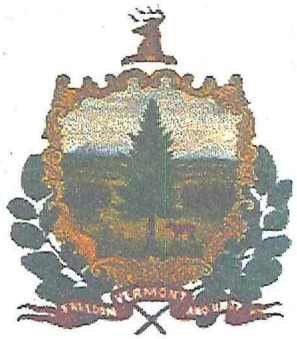
DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.0134	-0.0091
MIN(V)	-0.0148	-0.0108

FILTER INFO
Filter 1 -0.011 Zero = true
Filter 2 0.628 Zero = true
Filter 3 1.529 Zero = true

CALIBRATION CHECK
Xq = 0.080 0.22%

DIAGNOSTIC RESULT



DataMaster DMT: 100144
Location:
Calibration Date: 02/14/2012
Certification Date:
Installation Date:
Test Date: 02/15/2012
Test Time: 08:06:13

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.9°C
Breath Tube = 47.5°C
Digital Sim = 0.0°C

SETTINGS
Lamp Voltage = 1.63 V
Cooler Voltage = 1.61 V
Bias Voltage = 80 V
Chopper Freq = 532 Hz

PUMP INFO
Flow Rate = 5.499 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.0120	-0.0087
MIN(V)	-0.0130	-0.0106

FILTER INFO
Filter 1 -0.010 Zero = true
Filter 2 0.630 Zero = true
Filter 3 1.531 Zero = true

CALIBRATION CHECK
Xq = 0.080 0.76%

CERTIFICATION REPORT

DataMaster DMT: 100144
Calibration Date: 02/14/2012
Certification Date: 02/15/2012
Certified by: STEVEN R MERRILL

Diagnostic Results

```
VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.7°C
Breath Tube    = 47.2°C
Digital Sim    = 0.0°C

SETTINGS
Lamp Voltage   = 1.63 V
Cooler Voltage = 1.61 V
Bias Voltage   = 80 V
Chopper Freq   = 531 Hz

PUMP INFO
Flow Rate = 5.500 L/M

DETECTOR INFO
PUMP     ON         OFF
MAX(V)   -0.0104    -0.0079
MIN(V)   -0.0126    -0.0096

FILTER INFO
Filter 1  -0.010  Zero = true
Filter 2   0.630  Zero = true
Filter 3   1.533  Zero = true

CALIBRATION CHECK
Xq  = 0.080  0.87%
```

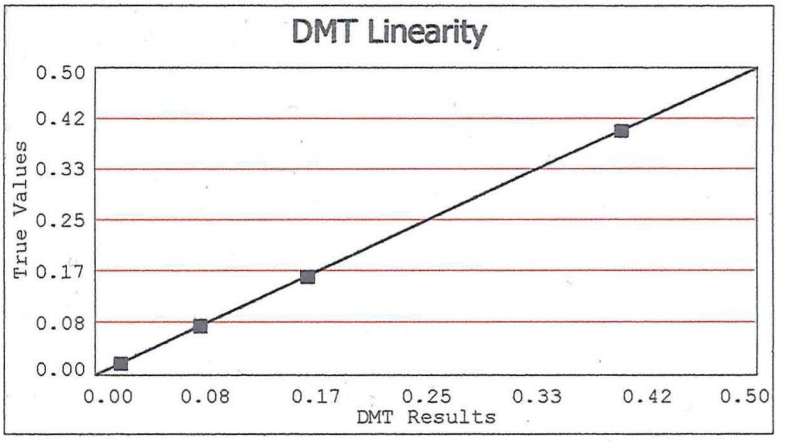
Options

```
OPTIONS
Units
   Alcohol.................. g/210L
Simulator
   Tolerance Check.......... yes
   Standard Type............ wet
   Nominal.................. 0.100
   Digital Simulator........ Guth34CNP
Subject
   Ask Questions............ yes
   Number of Tests.......... 2
   Alcohol Display.......... yes
   Volume Display........... yes
   Query Refusal............ yes
   Copies................... 3
   Simulator Before......... yes
   Simulator Between........ yes
   Simulator After.......... no
   Observation Time......... 0
Supervisor
   Number of Tests.......... 10
Calibration
   Standard Type............ wet
   Nominal.................. 0.100
   Nominal(Dry Gas)......... 0.100
   Number of Tests.......... 1
Printer
   Printer On............... yes
Software Configuration
   Data Collection.......... yes
```

Linearity Check Results

True Value	Reported Average	Std Dev
0.020 g/210L	0.019 g/210L	0.0000
Lot # 12-59-020		
0.080 g/210L	0.079 g/210L	0.0000
Lot # 12-57-080		
0.160 g/210L	0.160 g/210L	0.0000
Lot # 12-53-160		
0.397 g/210L	0.397 g/210L	0.0000
Lot # 12-54-400		

$R^2 = 1$



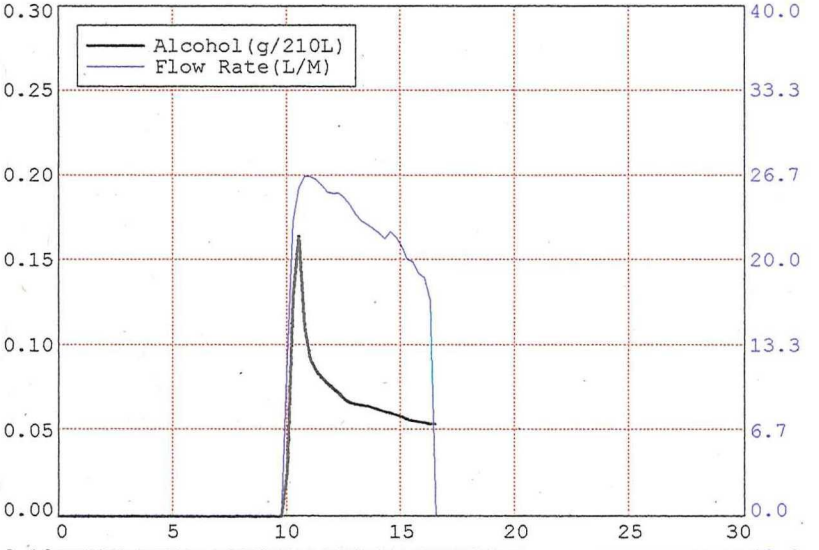
Acetone Interference Test

Lot # 12-57-080A1

Interference Detected

Mouth Alcohol Test

Mouth Alcohol Detected

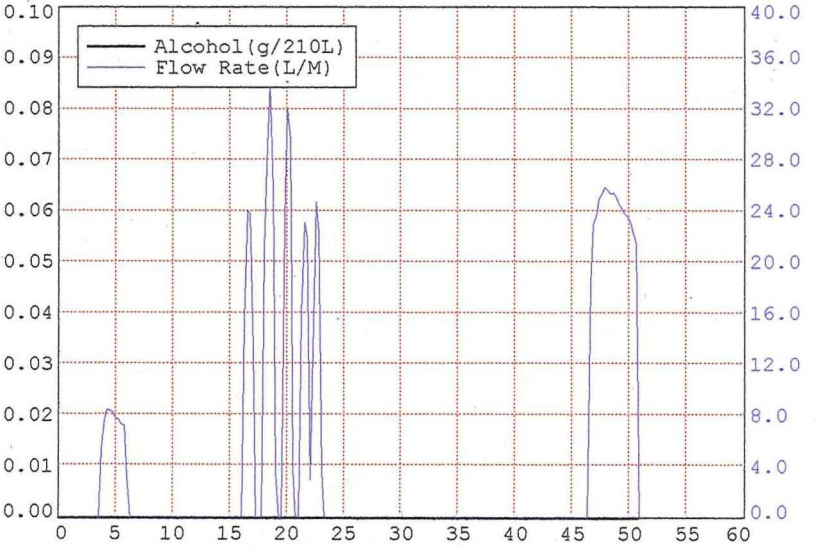


RF Detection Test

Passed

Sample Acceptance Test

Passed



CERTIFICATION PASSED

Performed by _____ Date 02/15/2012

Reviewed by _____ Date 2-15-12

SECTION 3

LINEARITY TESTS

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100144

Date: 02/15/2012
Time: 12:05:37

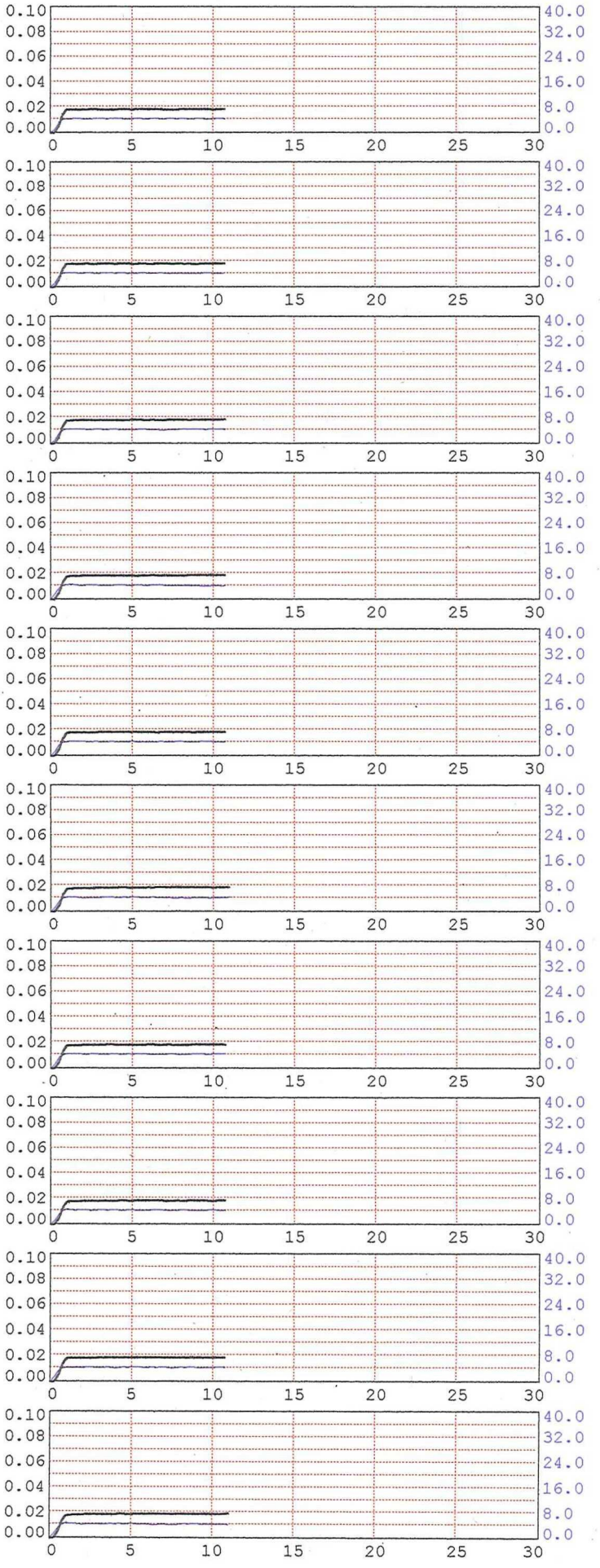
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-59-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	12:06
CALIBRATION CHECK	PASSED	12:06
SIMULATOR VAPOR 34.1°C	0.019	12:06
SIMULATOR VAPOR 34.1°C	0.019	12:07
SIMULATOR VAPOR 34.1°C	0.020	12:08
SIMULATOR VAPOR 34.1°C	0.020	12:09
SIMULATOR VAPOR 34.1°C	0.020	12:11
SIMULATOR VAPOR 34.1°C	0.020	12:12
SIMULATOR VAPOR 34.0°C	0.019	12:13
SIMULATOR VAPOR 34.0°C	0.019	12:14
SIMULATOR VAPOR 34.1°C	0.019	12:15
SIMULATOR VAPOR 34.1°C	0.020	12:16
BLANK TEST	0.000	12:16

Average = 0.019
Std Dev = 0.000

LI 02/15/12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100144

Date: 02/15/2012
Time: 12:26:12

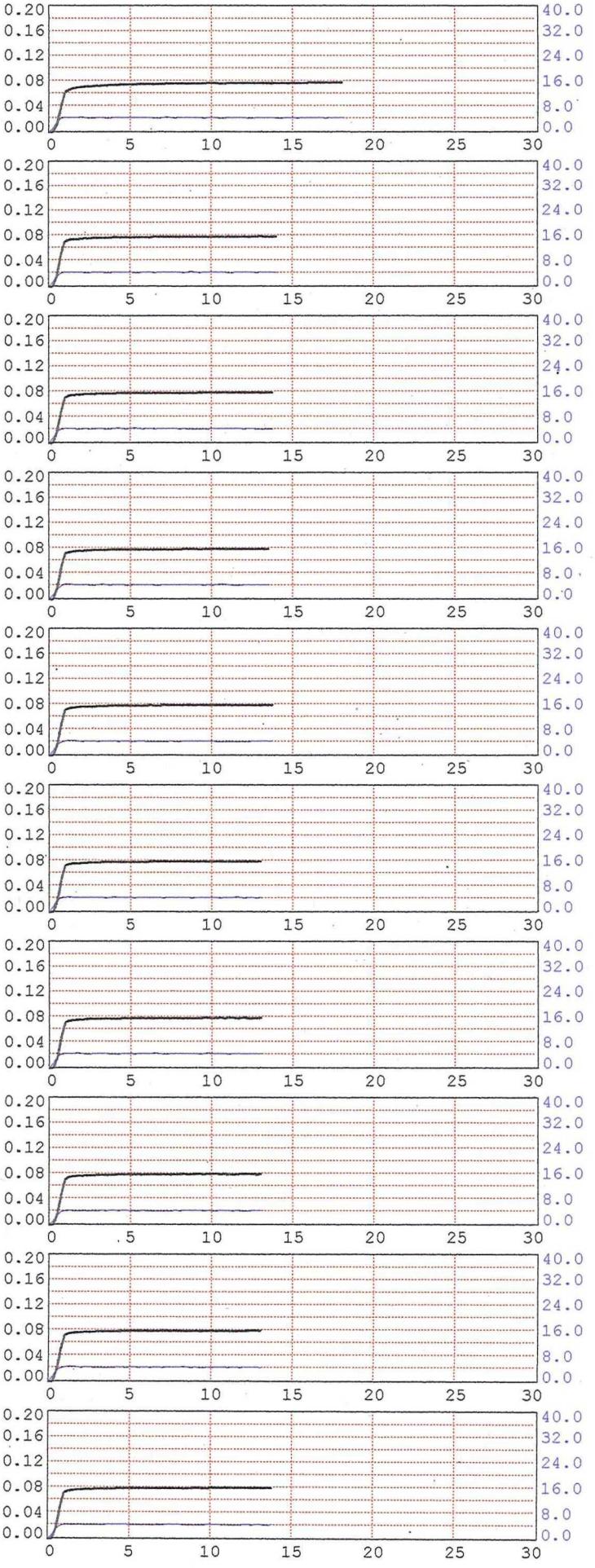
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-57-080
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	12:27
CALIBRATION CHECK	PASSED	12:27
SIMULATOR VAPOR 34.2°C	0.078	12:27
SIMULATOR VAPOR 34.1°C	0.079	12:28
SIMULATOR VAPOR 34.1°C	0.080	12:29
SIMULATOR VAPOR 34.2°C	0.080	12:30
SIMULATOR VAPOR 34.2°C	0.080	12:31
SIMULATOR VAPOR 34.2°C	0.080	12:33
SIMULATOR VAPOR 34.2°C	0.079	12:34
SIMULATOR VAPOR 34.1°C	0.080	12:35
SIMULATOR VAPOR 34.1°C	0.080	12:36
SIMULATOR VAPOR 34.1°C	0.080	12:37
BLANK TEST	0.000	12:38

Average = 0.079
Std Dev = 0.000

LI 02/15/12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100144

Date: 02/15/2012
Time: 12:43:08

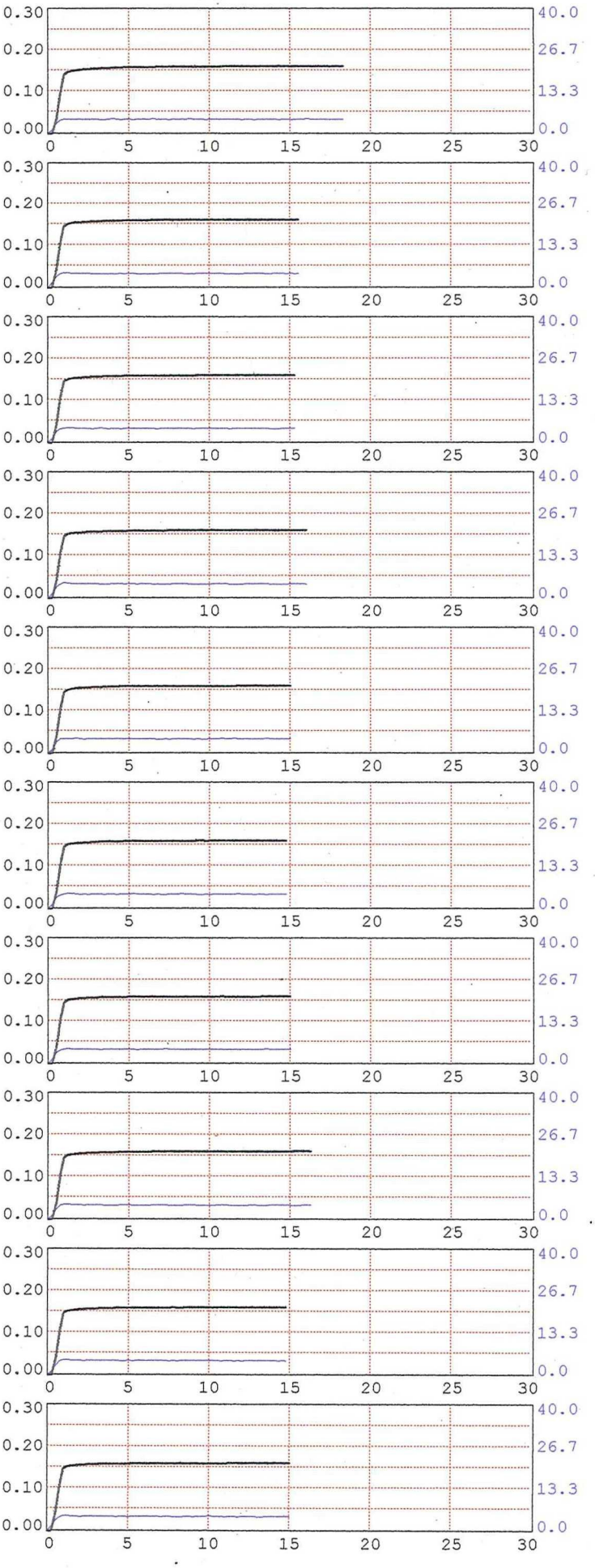
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-53-160
SOLUTION CONCENTRATION: 0.160

BLANK TEST	0.000	12:44
CALIBRATION CHECK	PASSED	12:44
SIMULATOR VAPOR 34.4°C	0.161	12:44
SIMULATOR VAPOR 34.5°C	0.161	12:45
SIMULATOR VAPOR 34.4°C	0.161	12:46
SIMULATOR VAPOR 34.4°C	0.161	12:47
SIMULATOR VAPOR 34.4°C	0.160	12:49
SIMULATOR VAPOR 34.4°C	0.160	12:50
SIMULATOR VAPOR 34.4°C	0.160	12:51
SIMULATOR VAPOR 34.4°C	0.161	12:52
SIMULATOR VAPOR 34.4°C	0.160	12:53
SIMULATOR VAPOR 34.4°C	0.160	12:54
BLANK TEST	0.000	12:55

Average = 0.160
Std Dev = 0.000

LI 02/15/12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100144

Date: 02/15/2012
Time: 12:59:20

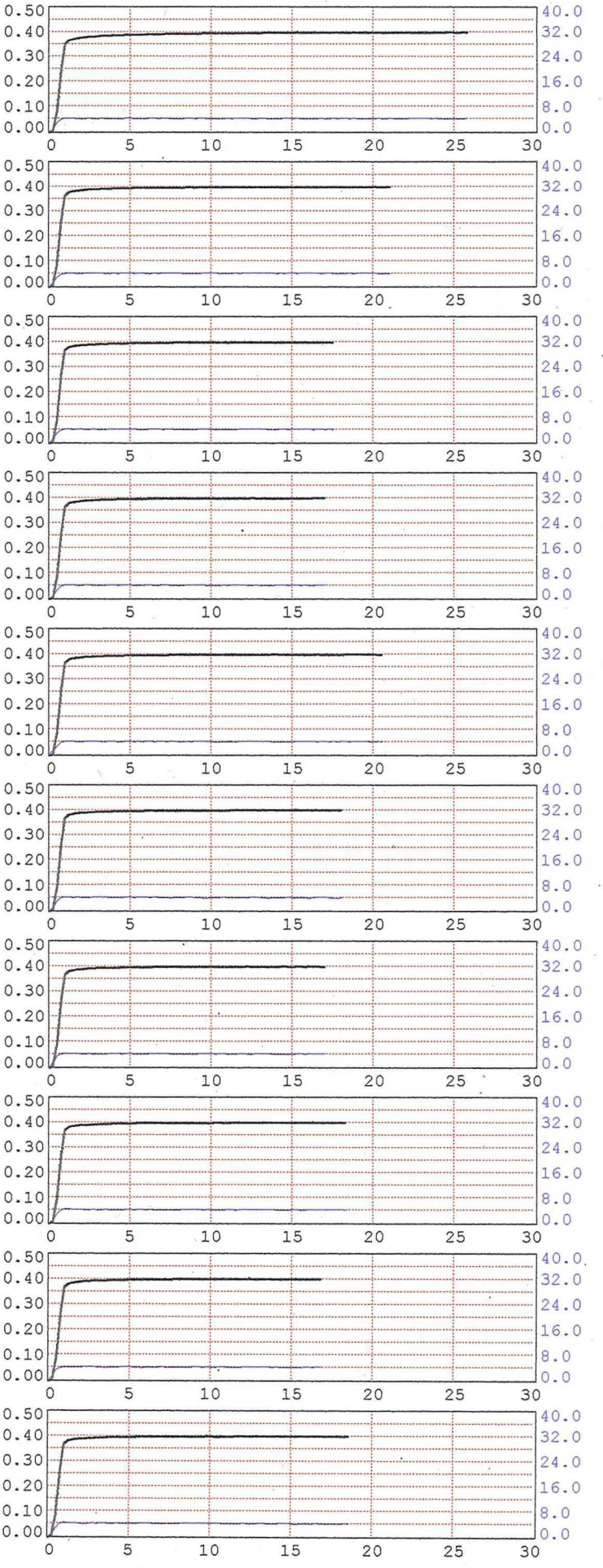
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-54-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST	0.000	13:00
CALIBRATION CHECK	PASSED	13:00
SIMULATOR VAPOR 34.0°C	0.396	13:00
SIMULATOR VAPOR 34.0°C	0.397	13:02
SIMULATOR VAPOR 34.0°C	0.396	13:03
SIMULATOR VAPOR 34.0°C	0.397	13:04
SIMULATOR VAPOR 34.0°C	0.397	13:05
SIMULATOR VAPOR 34.0°C	0.397	13:06
SIMULATOR VAPOR 34.0°C	0.396	13:08
SIMULATOR VAPOR 34.0°C	0.397	13:09
SIMULATOR VAPOR 34.0°C	0.397	13:10
SIMULATOR VAPOR 34.0°C	0.397	13:11
BLANK TEST	0.000	13:12

Average = 0.396
Std Dev = 0.000

LI 02/15/12



DIAGNOSTIC RESULT

DataMaster DMT: 100144
Location:
Calibration Date: 02/14/2012
Certification Date: 02/15/2012
Installation Date:
Test Date: 02/16/2012
Test Time: 07:24:29

```
VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.9°C
Breath Tube    = 46.1°C
Digital Sim    = 0.0°C

SETTINGS
Lamp Voltage   = 1.63 V
Cooler Voltage = 1.61 V
Bias Voltage   = 80 V
Chopper Freq   = 531 Hz

PUMP INFO
Flow Rate = 5.531 L/M

DETECTOR INFO
PUMP     ON         OFF
MAX(V)   -0.0179    -0.0144
MIN(V)   -0.0193    -0.0159

FILTER INFO
Filter 1  -0.015  Zero = true
Filter 2   0.626  Zero = true
Filter 3   1.525  Zero = true

CALIBRATION CHECK
Xq  = 0.080  0.65%
```

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100144

Date: 02/16/2012
Time: 07:43:29

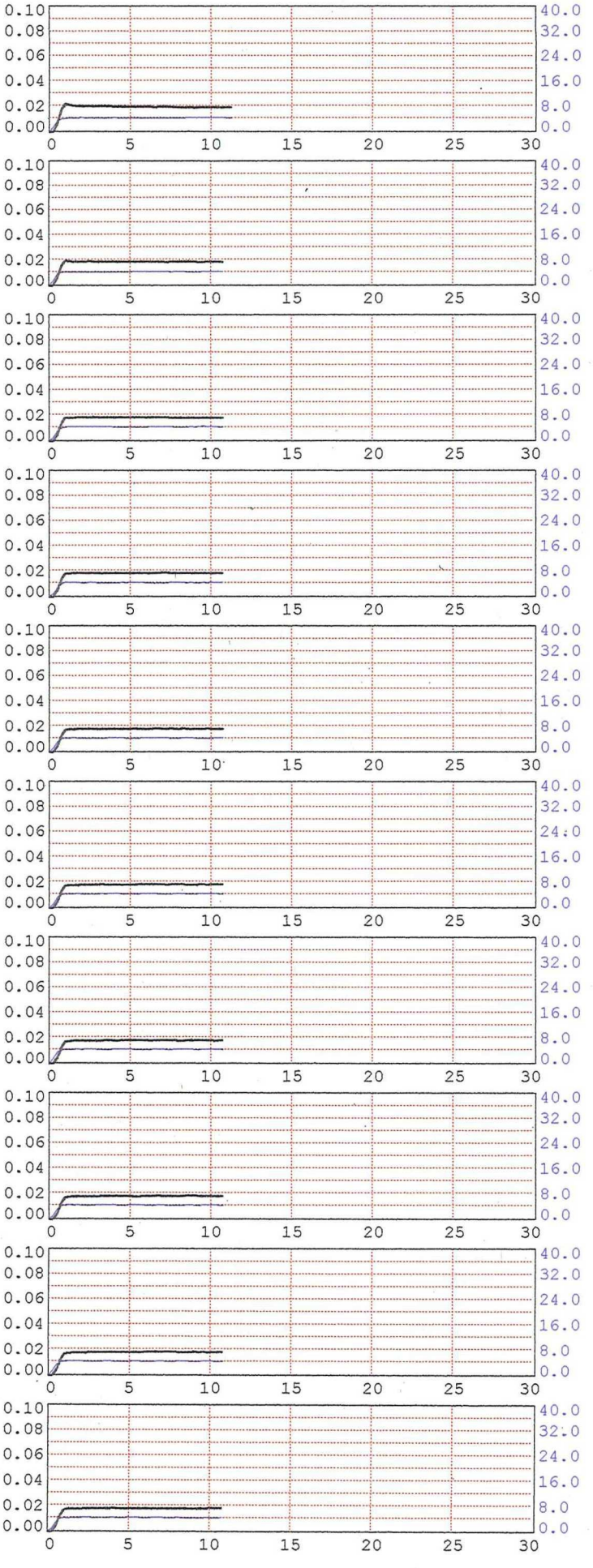
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-59-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	07:44
CALIBRATION CHECK	PASSED	07:44
SIMULATOR VAPOR 34.1°C	0.020	07:44
SIMULATOR VAPOR 34.1°C	0.020	07:45
SIMULATOR VAPOR 34.0°C	0.019	07:46
SIMULATOR VAPOR 34.1°C	0.020	07:47
SIMULATOR VAPOR 34.0°C	0.020	07:48
SIMULATOR VAPOR 34.0°C	0.019	07:49
SIMULATOR VAPOR 34.0°C	0.019	07:50
SIMULATOR VAPOR 34.1°C	0.019	07:51
SIMULATOR VAPOR 34.1°C	0.019	07:52
SIMULATOR VAPOR 34.1°C	0.019	07:54
BLANK TEST	0.000	07:54

Average = 0.019
Std Dev = 0.000

LJ 02/16/12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100144

Date: 02/16/2012
Time: 08:42:06

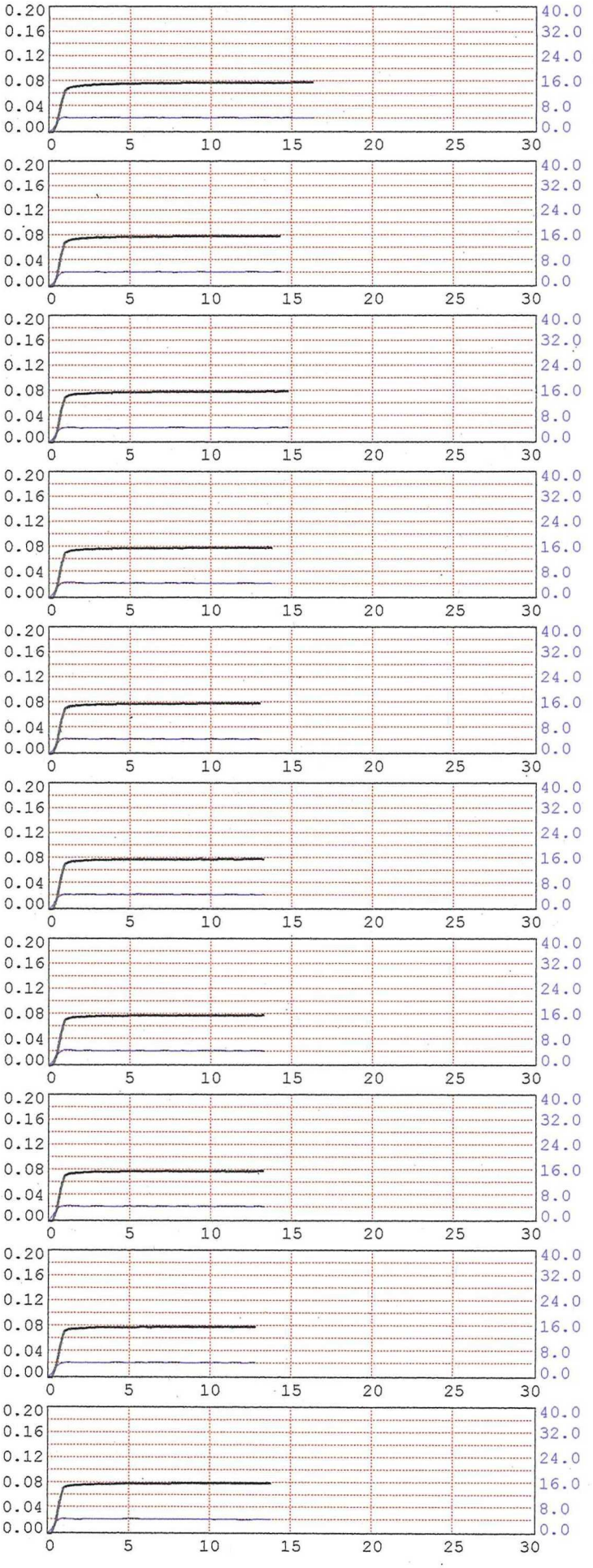
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-57-080
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	08:43
CALIBRATION CHECK	PASSED	08:43
SIMULATOR VAPOR 34.1°C	0.080	08:43
SIMULATOR VAPOR 34.1°C	0.080	08:44
SIMULATOR VAPOR 34.1°C	0.080	08:45
SIMULATOR VAPOR 34.2°C	0.080	08:46
SIMULATOR VAPOR 34.1°C	0.080	08:47
SIMULATOR VAPOR 34.1°C	0.079	08:48
SIMULATOR VAPOR 34.1°C	0.079	08:49
SIMULATOR VAPOR 34.1°C	0.079	08:51
SIMULATOR VAPOR 34.2°C	0.080	08:52
SIMULATOR VAPOR 34.1°C	0.081	08:53
BLANK TEST	0.000	08:54

Average = 0.079
Std Dev = 0.000

LL 02/16/12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100144

Date: 02/16/2012
Time: 10:52:38

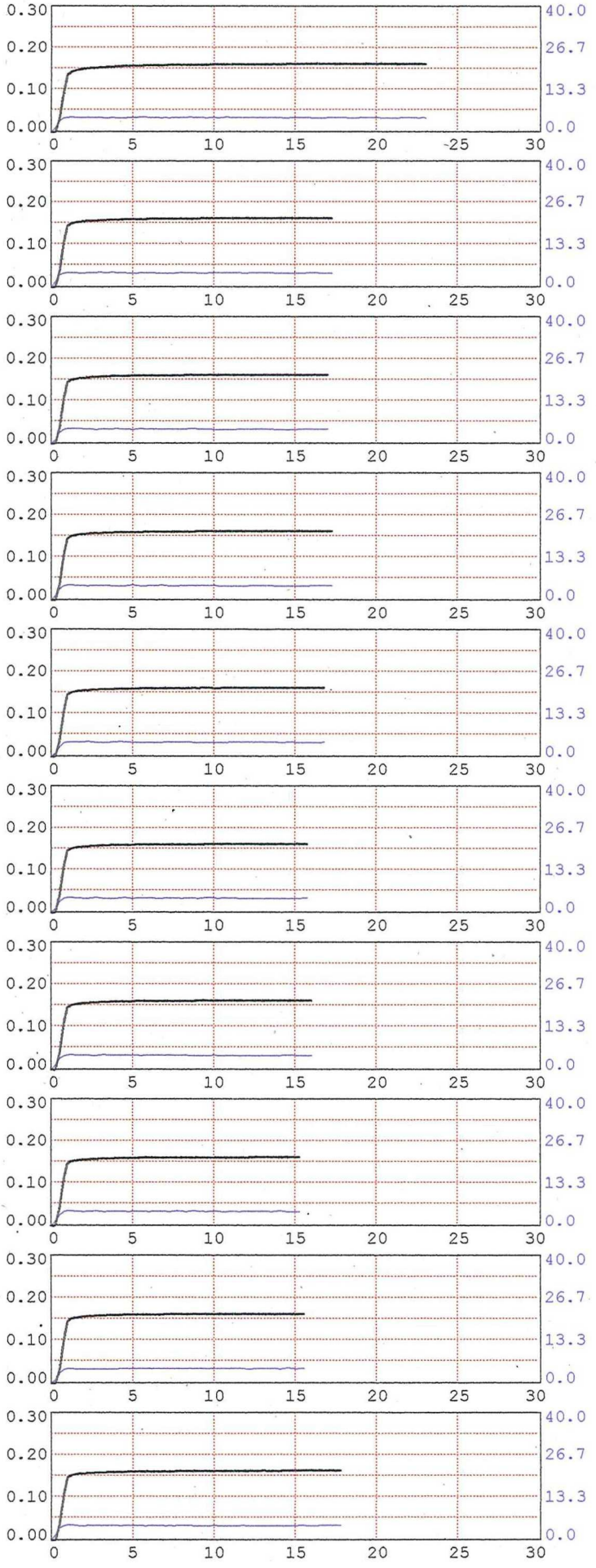
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-53-160
SOLUTION CONCENTRATION: 0.160

BLANK TEST	0.000	10:53
CALIBRATION CHECK	PASSED	10:53
SIMULATOR VAPOR 34.4°C	0.162	10:54
SIMULATOR VAPOR 34.4°C	0.162	10:55
SIMULATOR VAPOR 34.4°C	0.162	10:56
SIMULATOR VAPOR 34.4°C	0.162	10:57
SIMULATOR VAPOR 34.4°C	0.162	10:58
SIMULATOR VAPOR 34.4°C	0.162	10:59
SIMULATOR VAPOR 34.2°C	0.162	11:01
SIMULATOR VAPOR 34.4°C	0.161	11:02
SIMULATOR VAPOR 34.4°C	0.162	11:03
SIMULATOR VAPOR 34.4°C	0.163	11:04
BLANK TEST	0.000	11:05

Average = 0.162
Std Dev = 0.000

L2 02/16/12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100144

Date: 02/16/2012
Time: 11:08:55

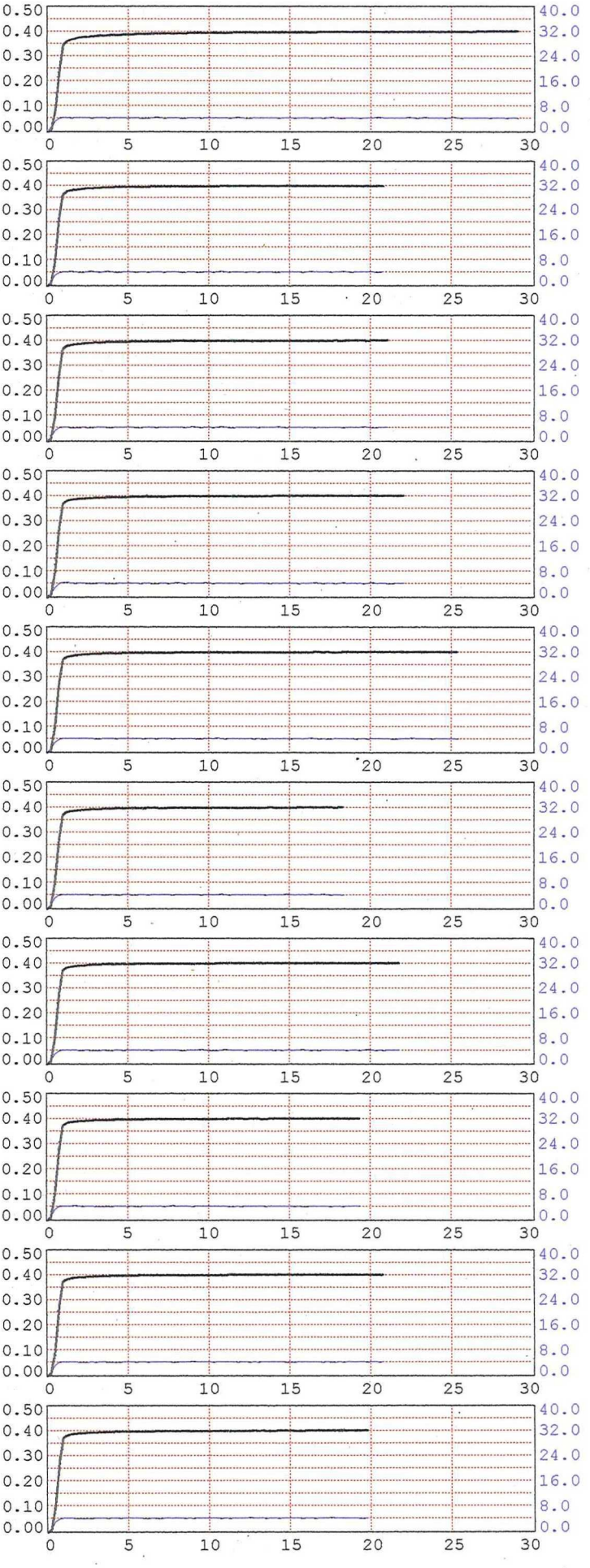
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-54-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST	0.000	11:09
CALIBRATION CHECK	PASSED	11:09
SIMULATOR VAPOR 34.0°C	0.399	11:10
SIMULATOR VAPOR 34.0°C	0.398	11:11
SIMULATOR VAPOR 34.0°C	0.399	11:13
SIMULATOR VAPOR 34.0°C	0.400	11:14
SIMULATOR VAPOR 34.0°C	0.400	11:15
SIMULATOR VAPOR 34.0°C	0.399	11:16
SIMULATOR VAPOR 34.0°C	0.400	11:17
SIMULATOR VAPOR 34.0°C	0.400	11:19
SIMULATOR VAPOR 34.0°C	0.400	11:20
SIMULATOR VAPOR 34.0°C	0.400	11:21
BLANK TEST	0.000	11:22

Average = 0.399
Std Dev = 0.000

LJ 02/16/12



DIAGNOSTIC RESULT

DataMaster DMT: 100144
Location:
Calibration Date: 02/14/2012
Certification Date: 02/15/2012
Installation Date:
Test Date: 02/16/2012
Test Time: 13:35:36

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.8°C
Breath Tube = 47.7°C
Digital Sim = 0.0°C

SETTINGS
Lamp Voltage = 1.63 V
Cooler Voltage = 1.61 V
Bias Voltage = 80 V
Chopper Freq = 532 Hz

PUMP INFO
Flow Rate = 5.383 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0002	0.0037
MIN(V)	-0.0014	0.0018

FILTER INFO
Filter 1 0.002 Zero = true
Filter 2 0.640 Zero = true
Filter 3 1.543 Zero = true

CALIBRATION CHECK
Xq = 0.080 0.22%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100144

Date: 02/16/2012
Time: 13:41:14

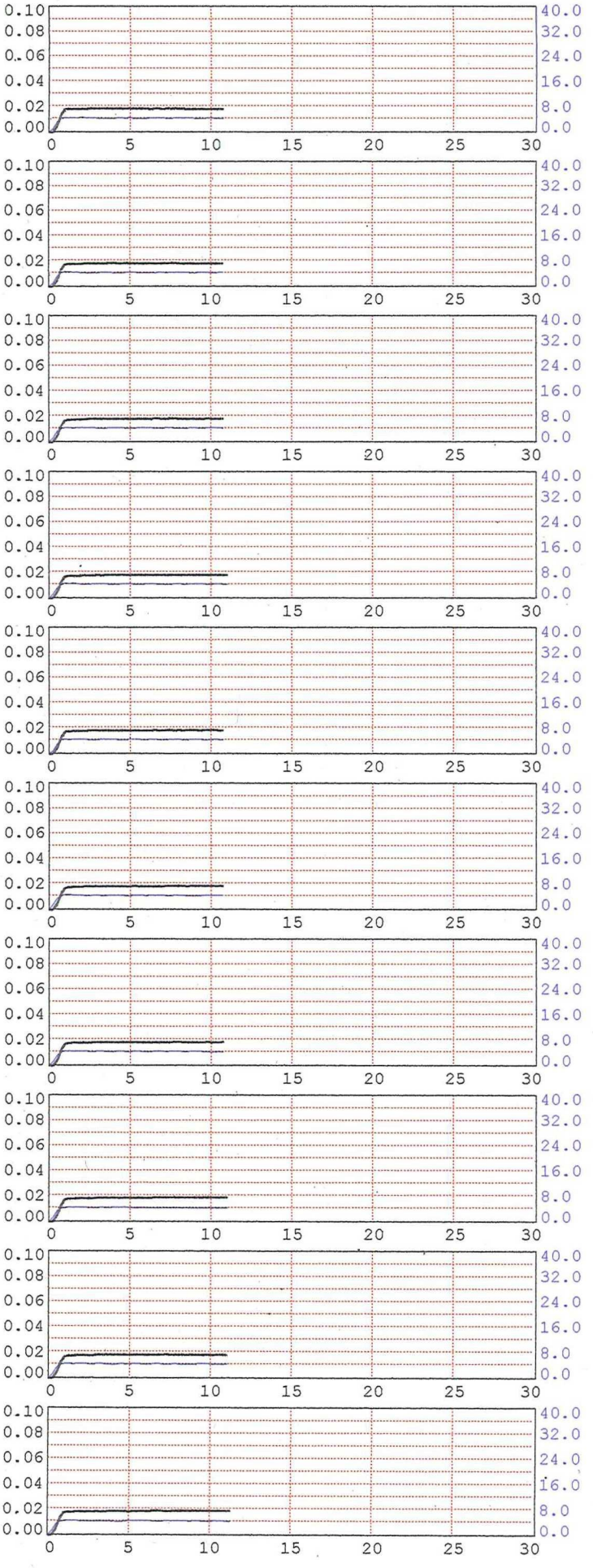
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-59-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	13:42
CALIBRATION CHECK	PASSED	13:42
SIMULATOR VAPOR 34.0°C	0.019	13:42
SIMULATOR VAPOR 34.0°C	0.019	13:43
SIMULATOR VAPOR 34.0°C	0.019	13:44
SIMULATOR VAPOR 34.1°C	0.019	13:45
SIMULATOR VAPOR 34.1°C	0.019	13:46
SIMULATOR VAPOR 34.1°C	0.019	13:47
SIMULATOR VAPOR 34.1°C	0.019	13:48
SIMULATOR VAPOR 34.1°C	0.020	13:49
SIMULATOR VAPOR 34.0°C	0.019	13:50
SIMULATOR VAPOR 34.0°C	0.020	13:51
BLANK TEST	0.000	13:52

Average = 0.019
Std Dev = 0.000

L-3
2-16-12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100144

Date: 02/16/2012
Time: 14:05:58

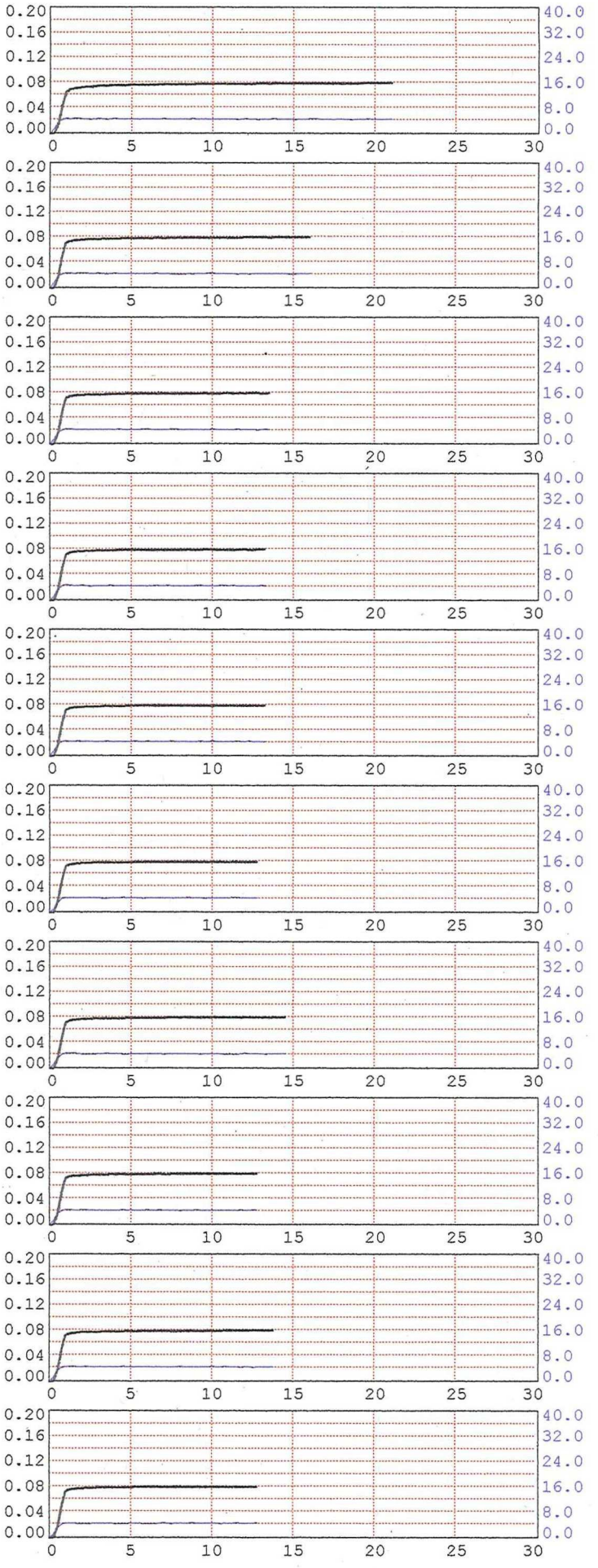
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-57-080
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	14:06
CALIBRATION CHECK	PASSED	14:06
SIMULATOR VAPOR 34.1°C	0.080	14:07
SIMULATOR VAPOR 34.2°C	0.080	14:08
SIMULATOR VAPOR 34.1°C	0.080	14:09
SIMULATOR VAPOR 34.1°C	0.080	14:10
SIMULATOR VAPOR 34.1°C	0.080	14:11
SIMULATOR VAPOR 34.1°C	0.080	14:12
SIMULATOR VAPOR 34.1°C	0.081	14:13
SIMULATOR VAPOR 34.1°C	0.080	14:15
SIMULATOR VAPOR 34.1°C	0.080	14:16
SIMULATOR VAPOR 34.1°C	0.080	14:17
BLANK TEST	0.000	14:18

Average = 0.080
Std Dev = 0.000

L-3
KKK
2-16-12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100144

Date: 02/16/2012
Time: 14:26:36

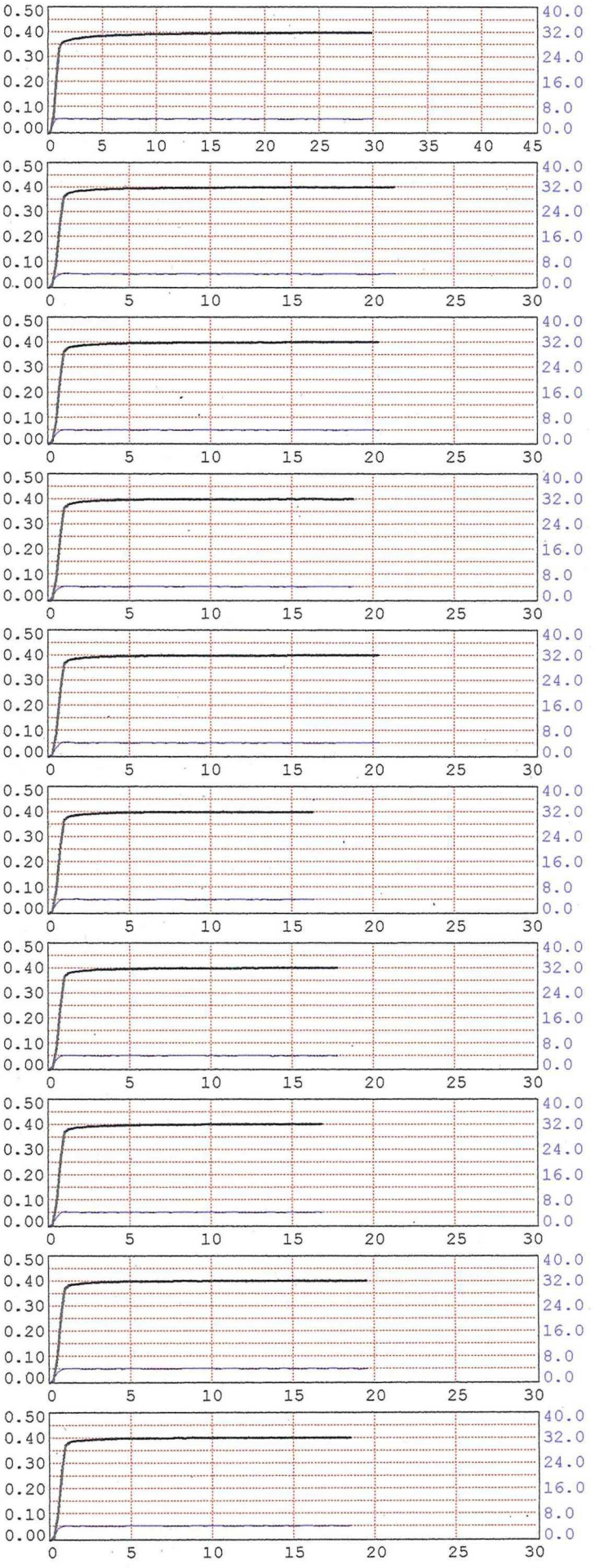
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-54-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST	0.000	14:27
CALIBRATION CHECK	PASSED	14:27
SIMULATOR VAPOR 33.9°C	0.397	14:28
SIMULATOR VAPOR 34.0°C	0.398	14:29
SIMULATOR VAPOR 34.0°C	0.399	14:30
SIMULATOR VAPOR 34.0°C	0.399	14:31
SIMULATOR VAPOR 34.0°C	0.399	14:33
SIMULATOR VAPOR 34.0°C	0.398	14:34
SIMULATOR VAPOR 33.9°C	0.399	14:35
SIMULATOR VAPOR 34.0°C	0.399	14:36
SIMULATOR VAPOR 34.0°C	0.401	14:37
SIMULATOR VAPOR 34.0°C	0.400	14:39
BLANK TEST	0.000	14:39

Average = 0.398
Std Dev = 0.001

L-3
2-16-12
IKEA



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100144

Date: 02/16/2012
Time: 15:27:35

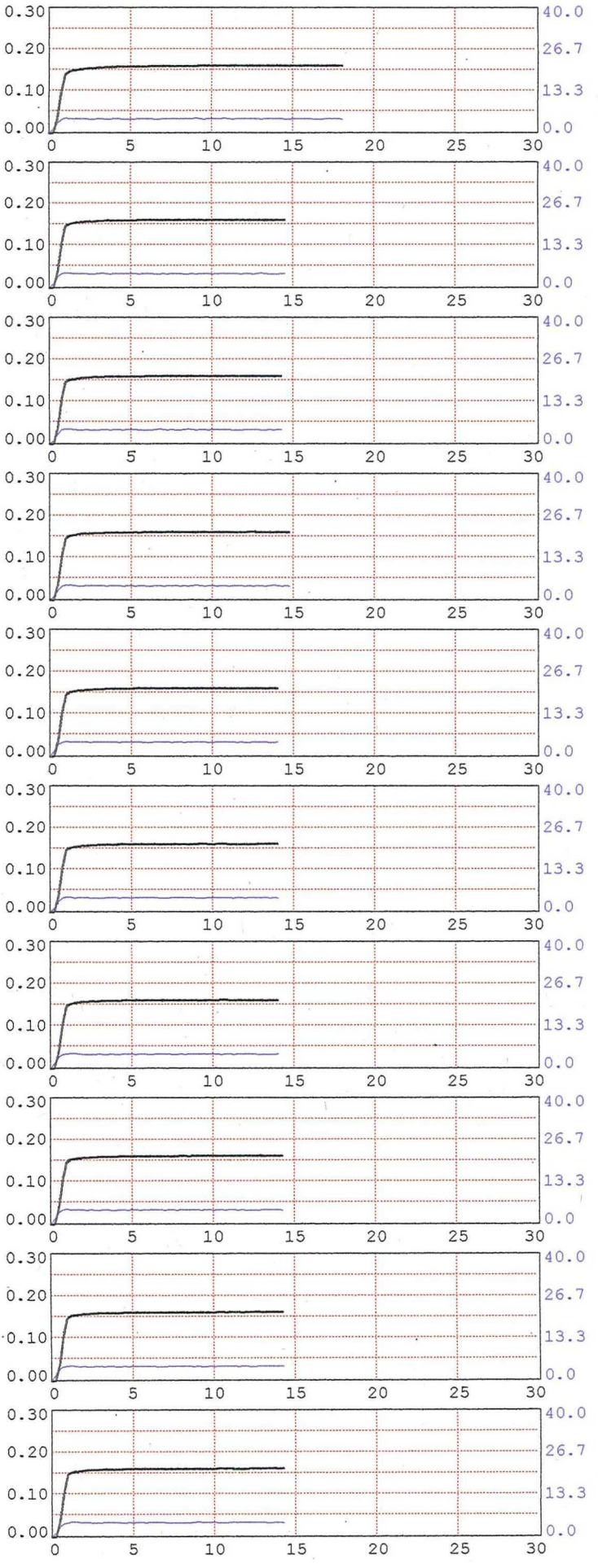
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-53-160
SOLUTION CONCENTRATION: 0.160

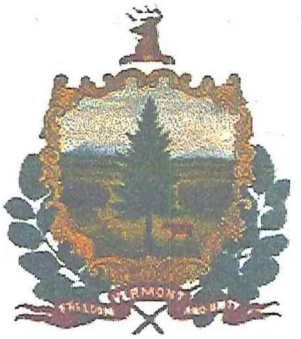
BLANK TEST	0.000	15:28
CALIBRATION CHECK	PASSED	15:28
SIMULATOR VAPOR 34.4°C	0.161	15:28
SIMULATOR VAPOR 34.4°C	0.161	15:30
SIMULATOR VAPOR 34.2°C	0.161	15:31
SIMULATOR VAPOR 34.4°C	0.161	15:32
SIMULATOR VAPOR 34.4°C	0.161	15:33
SIMULATOR VAPOR 34.4°C	0.161	15:34
SIMULATOR VAPOR 34.4°C	0.161	15:35
SIMULATOR VAPOR 34.4°C	0.161	15:36
SIMULATOR VAPOR 34.4°C	0.161	15:37
SIMULATOR VAPOR 34.4°C	0.161	15:38
BLANK TEST	0.000	15:39

Average = 0.161
Std Dev = 0.000

L3 02/16/12



DIAGNOSTIC RESULT



DataMaster DMT: 100144
Location:
Calibration Date: 02/14/2012
Certification Date: 02/15/2012
Installation Date:
Test Date: 02/16/2012
Test Time: 15:51:20

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.9°C
Breath Tube = 47.6°C
Digital Sim = 0.0°C

SETTINGS
Lamp Voltage = 1.63 V
Cooler Voltage = 1.61 V
Bias Voltage = 80 V
Chopper Freq = 532 Hz

PUMP INFO
Flow Rate = 5.382 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0191	0.0222
MIN(V)	0.0173	0.0205

FILTER INFO
Filter 1 0.020 Zero = true
Filter 2 0.656 Zero = true
Filter 3 1.564 Zero = true

CALIBRATION CHECK
Xq = 0.080 0.76%

DIAGNOSTIC RESULT

DataMaster DMT: 100144
Location:
Calibration Date: 02/14/2012
Certification Date: 02/15/2012
Installation Date:
Test Date: 02/17/2012
Test Time: 06:49:57

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.7°C
Breath Tube = 46.0°C
Digital Sim = 0.0°C

SETTINGS
Lamp Voltage = 1.63 V
Cooler Voltage = 1.61 V
Bias Voltage = 80 V
Chopper Freq = 531 Hz

PUMP INFO
Flow Rate = 5.453 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.0010	0.0012
MIN(V)	-0.0033	-0.0006

FILTER INFO
Filter 1 -0.001 Zero = true
Filter 2 0.637 Zero = true
Filter 3 1.537 Zero = true

CALIBRATION CHECK
Xq = 0.079 0.54%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100144

Date: 02/17/2012
Time: 07:08:47

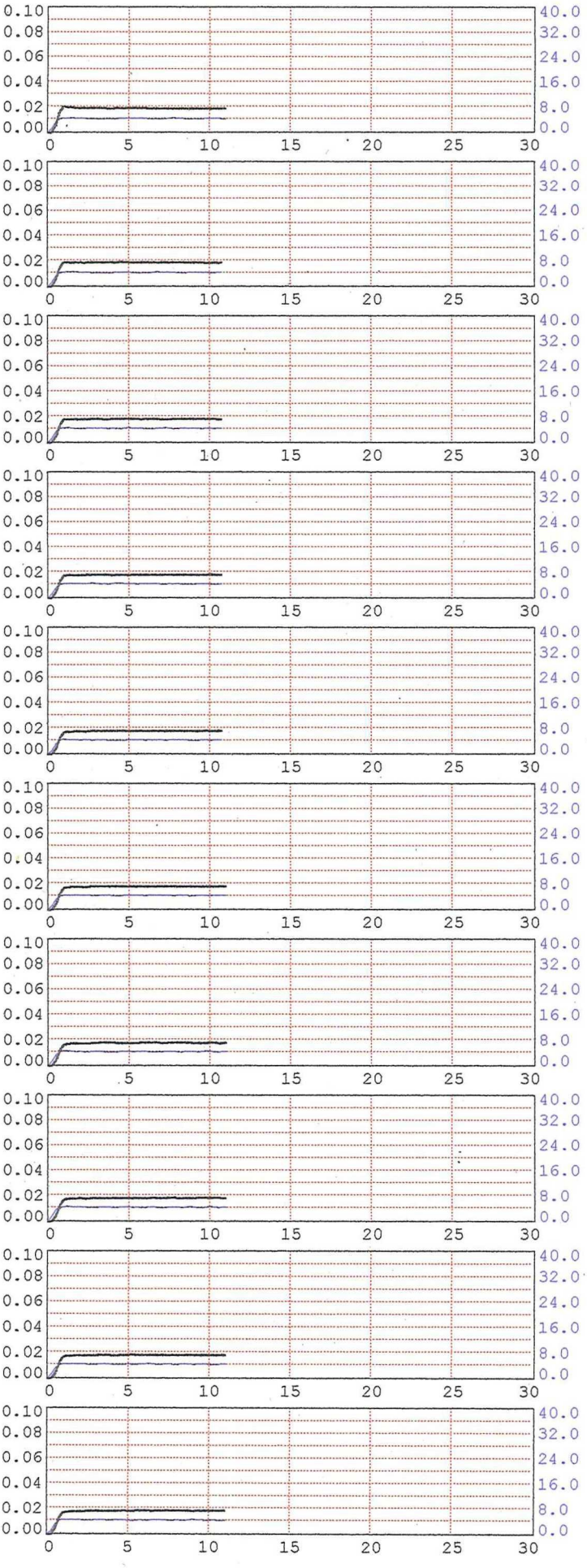
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-59-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	07:09
CALIBRATION CHECK	PASSED	07:09
SIMULATOR VAPOR 34.1°C	0.020	07:10
SIMULATOR VAPOR 34.0°C	0.020	07:11
SIMULATOR VAPOR 34.2°C	0.020	07:12
SIMULATOR VAPOR 34.0°C	0.019	07:13
SIMULATOR VAPOR 34.1°C	0.019	07:14
SIMULATOR VAPOR 34.1°C	0.019	07:15
SIMULATOR VAPOR 34.1°C	0.019	07:16
SIMULATOR VAPOR 34.1°C	0.019	07:17
SIMULATOR VAPOR 34.1°C	0.019	07:18
SIMULATOR VAPOR 34.0°C	0.019	07:19
BLANK TEST	0.000	07:20

Average = 0.019
Std Dev = 0.000

LH 02/17/12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100144

Date: 02/17/2012
Time: 07:24:31

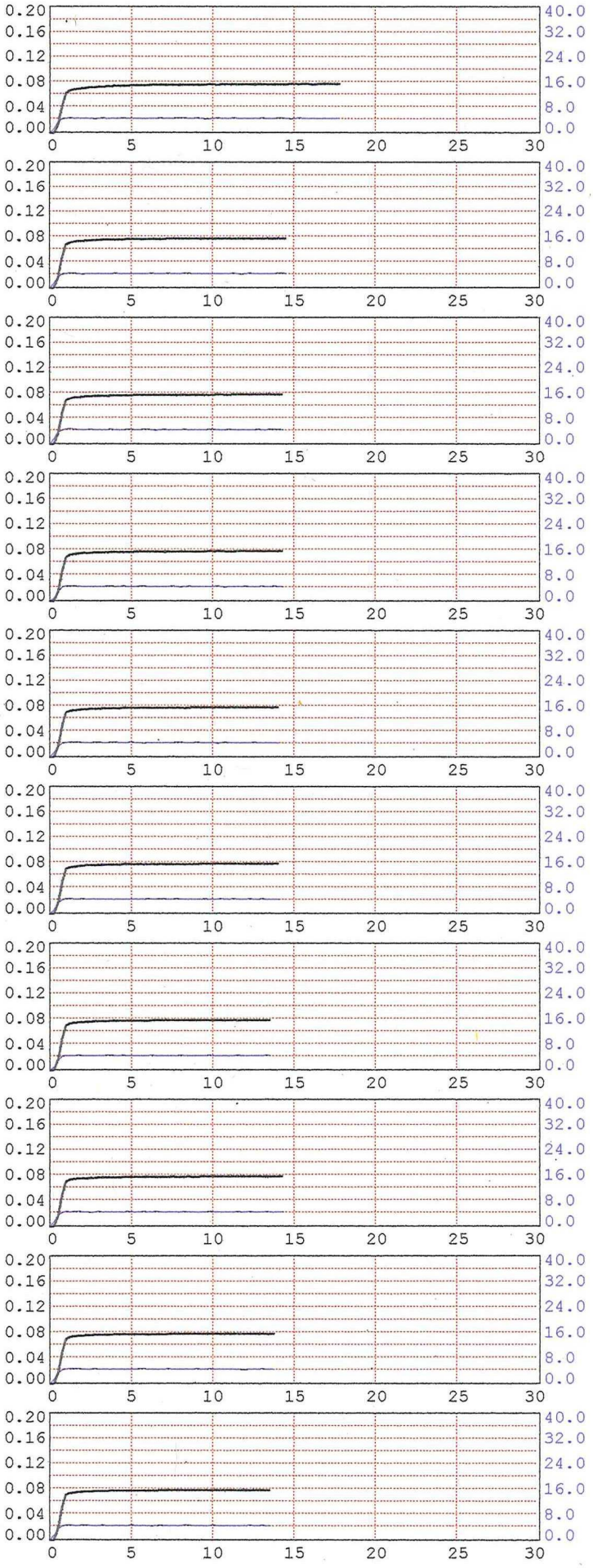
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-57-080
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	07:25
CALIBRATION CHECK	PASSED	07:25
SIMULATOR VAPOR 34.1°C	0.077	07:25
SIMULATOR VAPOR 34.1°C	0.078	07:27
SIMULATOR VAPOR 34.1°C	0.079	07:28
SIMULATOR VAPOR 34.2°C	0.078	07:29
SIMULATOR VAPOR 34.2°C	0.079	07:30
SIMULATOR VAPOR 34.1°C	0.079	07:31
SIMULATOR VAPOR 34.1°C	0.079	07:32
SIMULATOR VAPOR 34.2°C	0.079	07:33
SIMULATOR VAPOR 34.1°C	0.079	07:34
SIMULATOR VAPOR 34.1°C	0.079	07:35
BLANK TEST	0.000	07:36

Average = 0.078
Std Dev = 0.000

~~L2~~ L4 02/17/12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100144

Date: 02/17/2012
Time: 07:57:43

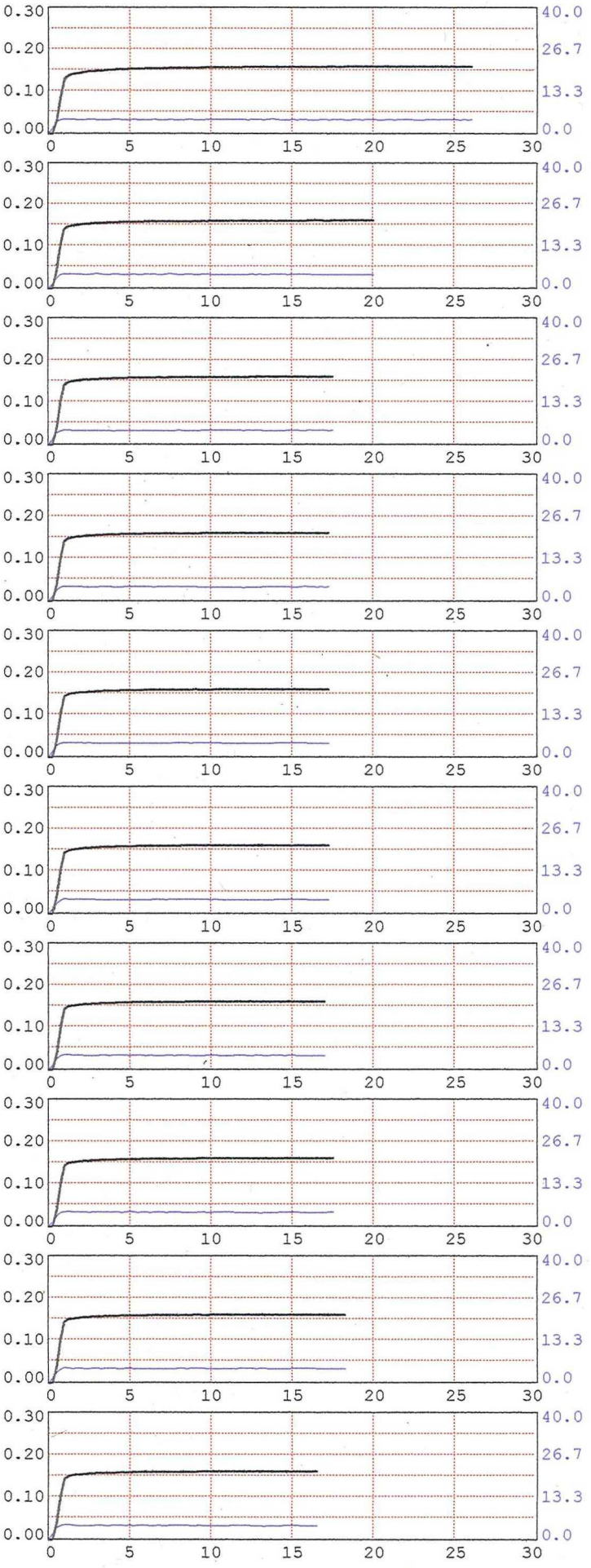
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-53-160
SOLUTION CONCENTRATION: 0.160

BLANK TEST	0.000	07:58
CALIBRATION CHECK	PASSED	07:58
SIMULATOR VAPOR 34.4°C	0.160	07:59
SIMULATOR VAPOR 34.4°C	0.160	08:00
SIMULATOR VAPOR 34.4°C	0.160	08:01
SIMULATOR VAPOR 34.4°C	0.160	08:02
SIMULATOR VAPOR 34.4°C	0.160	08:03
SIMULATOR VAPOR 34.5°C	0.161	08:05
SIMULATOR VAPOR 34.4°C	0.161	08:06
SIMULATOR VAPOR 34.4°C	0.161	08:07
SIMULATOR VAPOR 34.4°C	0.161	08:08
SIMULATOR VAPOR 34.4°C	0.161	08:09
BLANK TEST	0.000	08:10

Average = 0.160
Std Dev = 0.000

LY 02/17/12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100144

Date: 02/17/2012
Time: 08:14:08

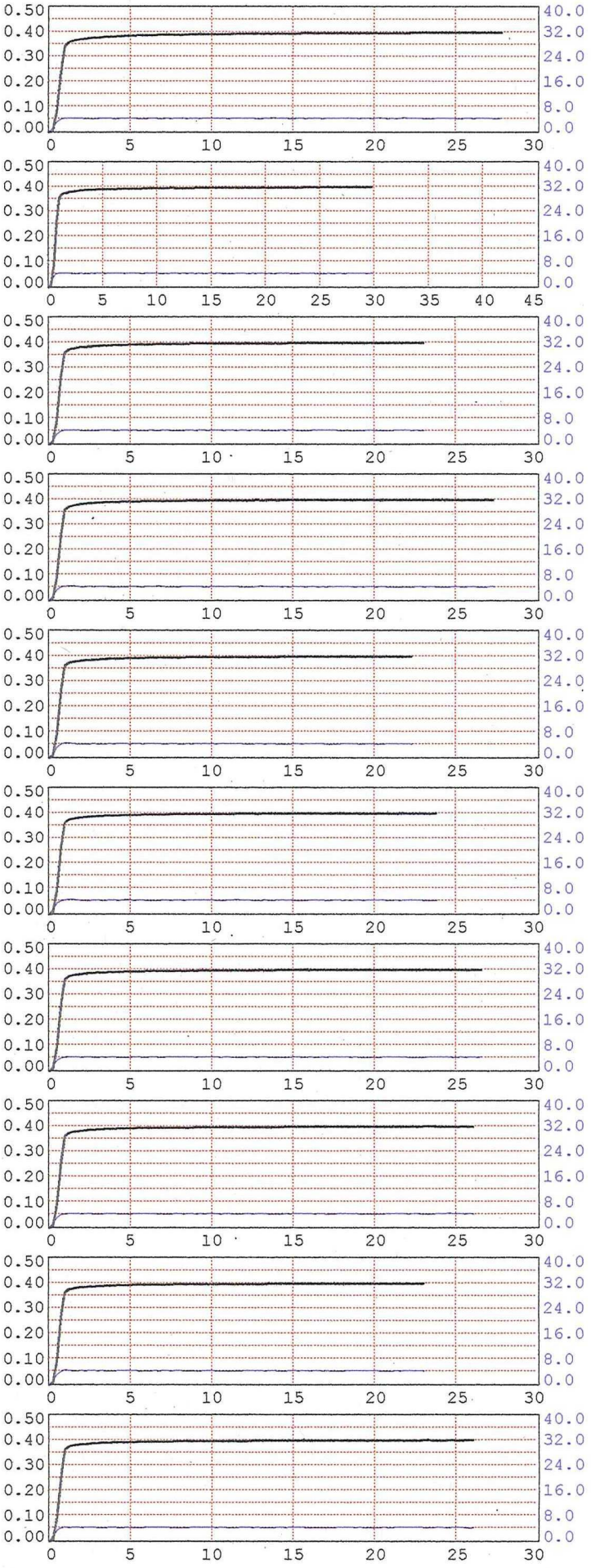
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-54-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST	0.000	08:15
CALIBRATION CHECK	PASSED	08:15
SIMULATOR VAPOR 34.1°C	0.395	08:15
SIMULATOR VAPOR 34.0°C	0.395	08:17
SIMULATOR VAPOR 34.0°C	0.395	08:18
SIMULATOR VAPOR 34.0°C	0.396	08:19
SIMULATOR VAPOR 34.0°C	0.396	08:20
SIMULATOR VAPOR 34.0°C	0.396	08:22
SIMULATOR VAPOR 34.0°C	0.396	08:23
SIMULATOR VAPOR 34.0°C	0.396	08:24
SIMULATOR VAPOR 33.9°C	0.396	08:26
SIMULATOR VAPOR 34.0°C	0.397	08:27
BLANK TEST	0.000	08:28

Average = 0.395
Std Dev = 0.000

LY 02/17/12



DIAGNOSTIC RESULT

DataMaster DMT: 100144
Location:
Calibration Date: 02/14/2012
Certification Date: 02/15/2012
Installation Date:
Test Date: 02/17/2012
Test Time: 10:20:03

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 49.1°C
Breath Tube = 45.6°C
Digital Sim = 34.2°C

SETTINGS
Lamp Voltage = 1.63 V
Cooler Voltage = 1.61 V
Bias Voltage = 80 V
Chopper Freq = 534 Hz

PUMP INFO
Flow Rate = 5.498 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0177	0.0201
MIN(V)	0.0163	0.0189

FILTER INFO
Filter 1 0.020 Zero = true
Filter 2 0.654 Zero = true
Filter 3 1.562 Zero = true

CALIBRATION CHECK
Xq = 0.081 1.85%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100144

Date: 02/17/2012
Time: 10:40:04

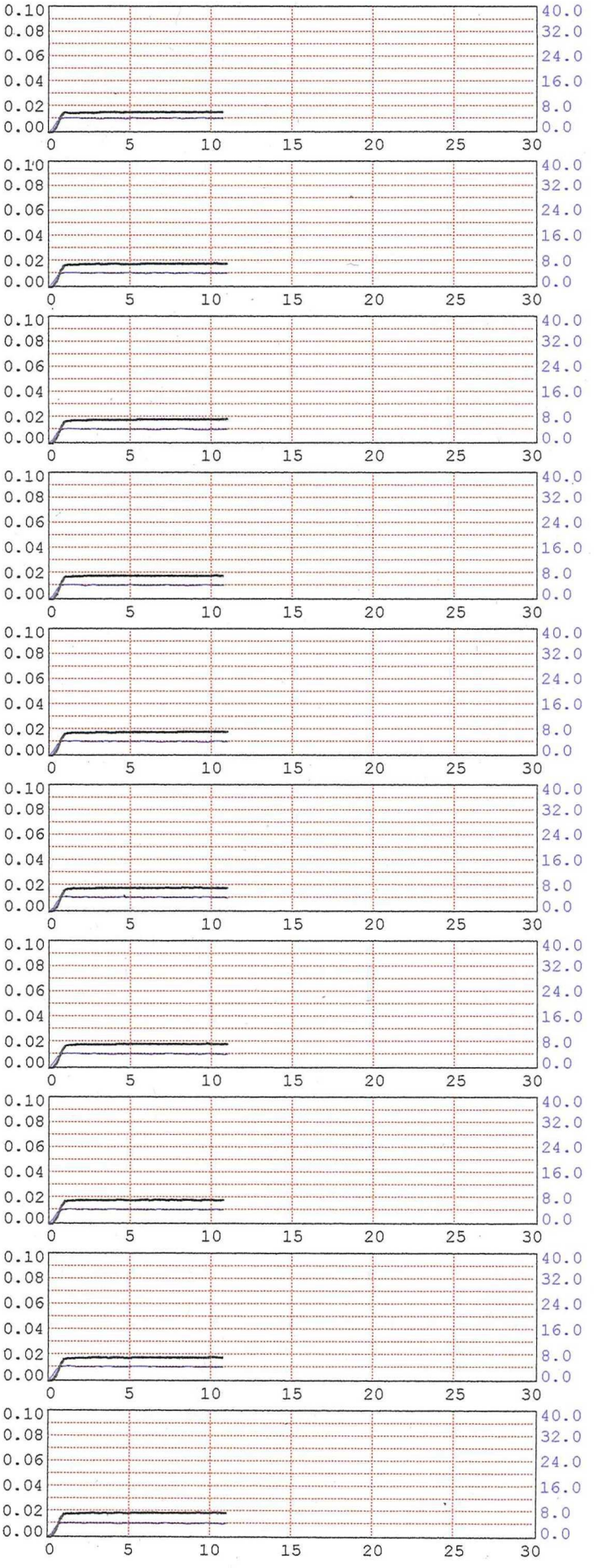
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-59-020
SOLUTION CONCENTRATION: 0.020

BLANK TEST	0.000	10:40
CALIBRATION CHECK	PASSED	10:41
SIMULATOR VAPOR 33.8°C	0.016	10:41
SIMULATOR VAPOR 33.9°C	0.019	10:42
SIMULATOR VAPOR 33.8°C	0.019	10:43
SIMULATOR VAPOR 33.8°C	0.019	10:44
SIMULATOR VAPOR 33.9°C	0.019	10:45
SIMULATOR VAPOR 33.8°C	0.019	10:46
SIMULATOR VAPOR 33.8°C	0.020	10:47
SIMULATOR VAPOR 33.8°C	0.019	10:48
SIMULATOR VAPOR 33.8°C	0.019	10:49
SIMULATOR VAPOR 33.8°C	0.020	10:50
BLANK TEST	0.000	10:51

Average = 0.018
Std Dev = 0.001

LS 02/17/12 SA



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100144

Date: 02/17/2012
Time: 10:54:47

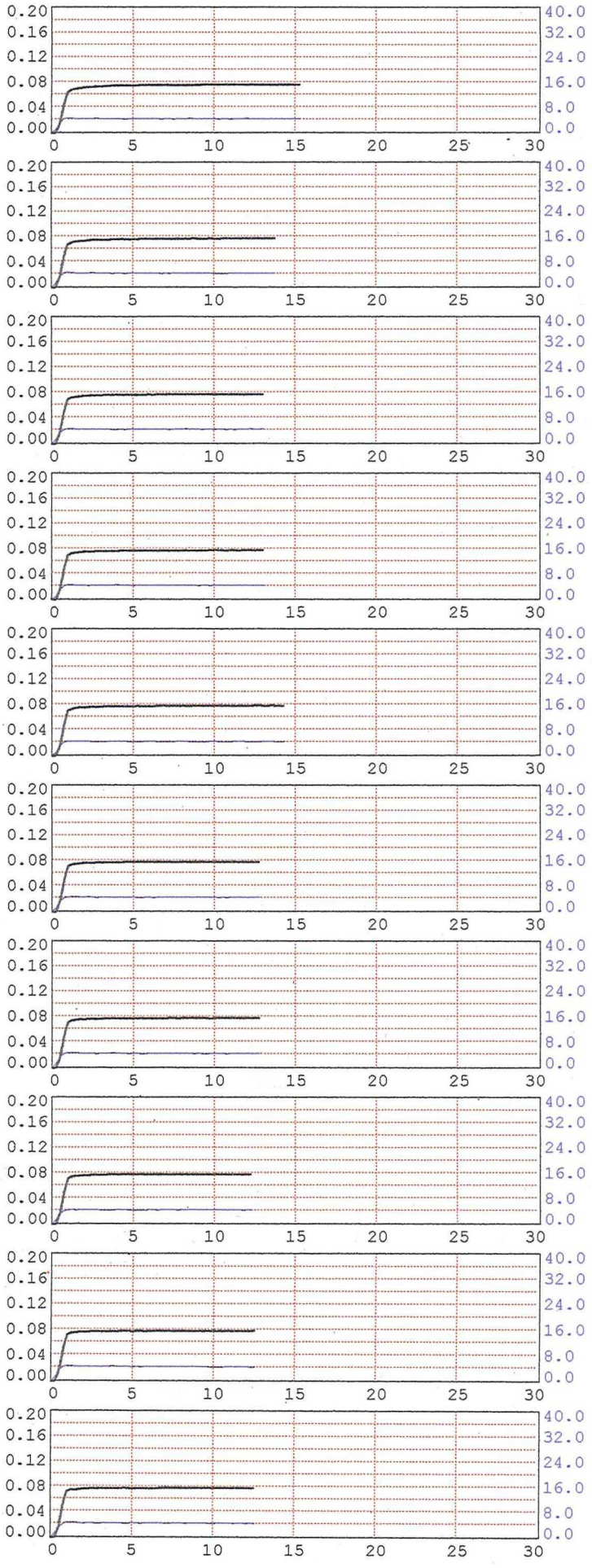
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-57-080
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	10:55
CALIBRATION CHECK	PASSED	10:55
SIMULATOR VAPOR 33.8°C	0.077	10:56
SIMULATOR VAPOR 33.8°C	0.078	10:57
SIMULATOR VAPOR 33.8°C	0.078	10:58
SIMULATOR VAPOR 33.8°C	0.078	10:59
SIMULATOR VAPOR 33.8°C	0.079	11:00
SIMULATOR VAPOR 33.8°C	0.079	11:01
SIMULATOR VAPOR 33.8°C	0.078	11:02
SIMULATOR VAPOR 33.8°C	0.079	11:03
SIMULATOR VAPOR 33.8°C	0.079	11:04
SIMULATOR VAPOR 33.8°C	0.079	11:05
BLANK TEST	0.000	11:06

Average = 0.078
Std Dev = 0.000

LS 02/17/12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100144

Date: 02/17/2012
Time: 11:11:41

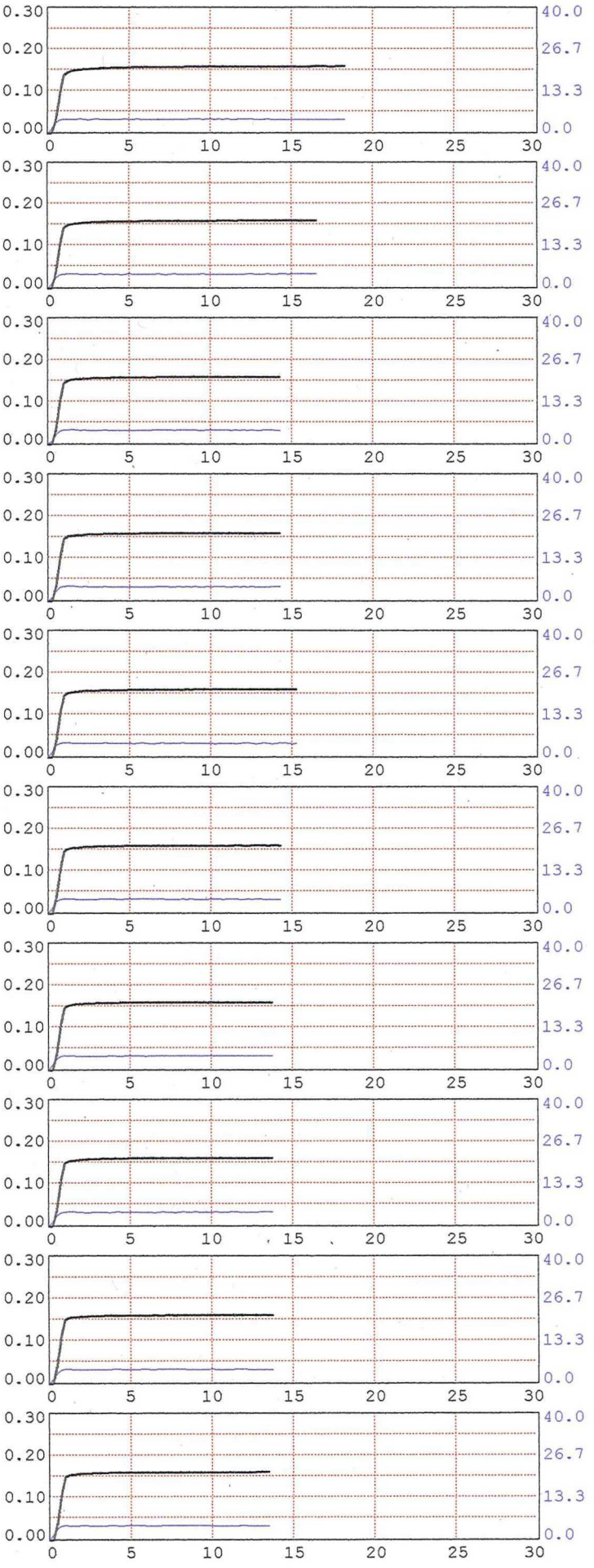
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-53-160
SOLUTION CONCENTRATION: 0.160

BLANK TEST	0.000	11:12
CALIBRATION CHECK	PASSED	11:12
SIMULATOR VAPOR 33.8°C	0.158	11:13
SIMULATOR VAPOR 33.8°C	0.159	11:14
SIMULATOR VAPOR 33.9°C	0.159	11:15
SIMULATOR VAPOR 33.9°C	0.159	11:16
SIMULATOR VAPOR 33.9°C	0.160	11:17
SIMULATOR VAPOR 33.8°C	0.160	11:18
SIMULATOR VAPOR 33.8°C	0.159	11:19
SIMULATOR VAPOR 33.8°C	0.161	11:20
SIMULATOR VAPOR 33.8°C	0.160	11:21
SIMULATOR VAPOR 33.8°C	0.160	11:23
BLANK TEST	0.000	11:23

Average = 0.159
Std Dev = 0.000

LS 02/17/12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100144

Date: 02/17/2012
Time: 11:47:46

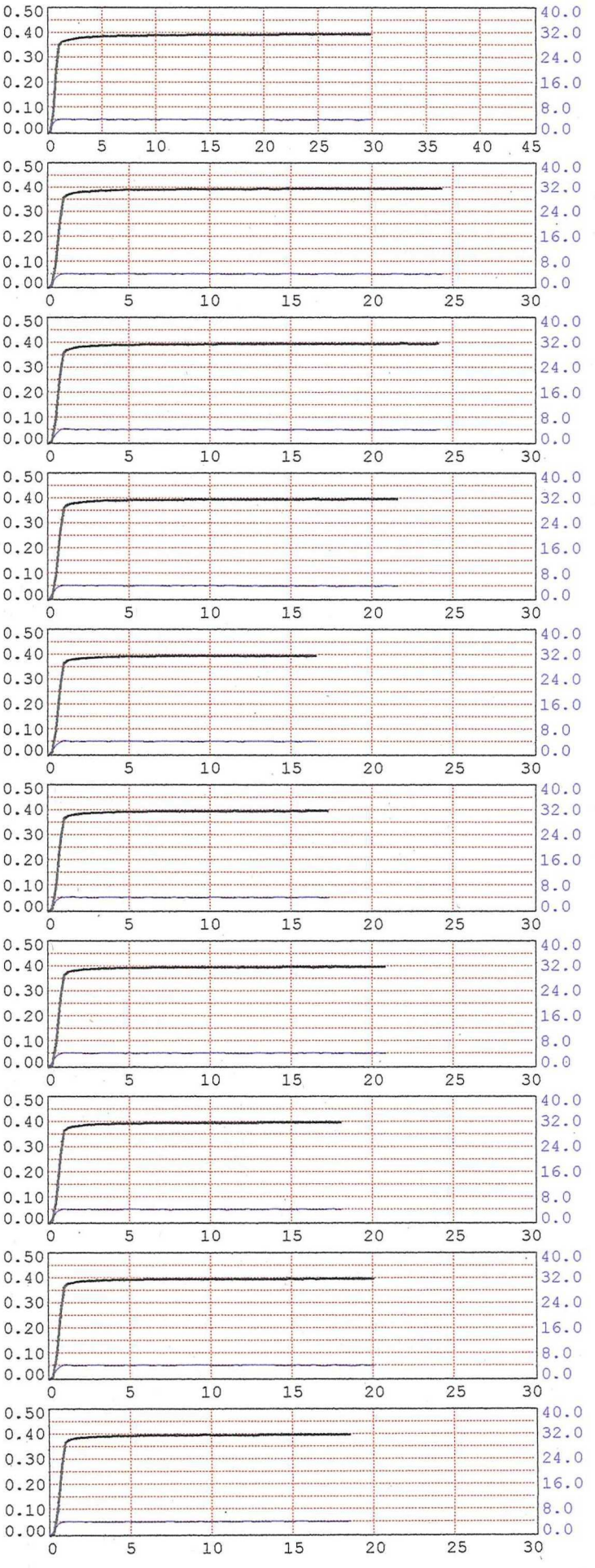
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-54-400
SOLUTION CONCENTRATION: 0.397

BLANK TEST	0.000	11:48
CALIBRATION CHECK	PASSED	11:48
SIMULATOR VAPOR 33.8°C	0.393	11:49
SIMULATOR VAPOR 33.8°C	0.393	11:50
SIMULATOR VAPOR 33.8°C	0.394	11:51
SIMULATOR VAPOR 33.8°C	0.395	11:53
SIMULATOR VAPOR 33.9°C	0.395	11:54
SIMULATOR VAPOR 33.8°C	0.395	11:55
SIMULATOR VAPOR 33.8°C	0.395	11:56
SIMULATOR VAPOR 33.9°C	0.395	11:57
SIMULATOR VAPOR 33.8°C	0.396	11:59
SIMULATOR VAPOR 33.8°C	0.395	12:00
BLANK TEST	0.000	12:01

Average = 0.394
Std Dev = 0.000

LS 02/17/12



SECTION 4

INTERFERENCE TESTS

DIAGNOSTIC RESULT

DataMaster DMT: 100144
Location:
Calibration Date: 02/14/2012
Certification Date: 02/15/2012
Installation Date:
Test Date: 02/15/2012
Test Time: 11:45:10

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 49.1°C
Breath Tube = 43.9°C
Digital Sim = 0.0°C

SETTINGS
Lamp Voltage = 1.63 V
Cooler Voltage = 1.61 V
Bias Voltage = 80 V
Chopper Freq = 531 Hz

PUMP INFO
Flow Rate = 5.523 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.0154	-0.0116
MIN(V)	-0.0171	-0.0130

FILTER INFO
Filter 1 -0.012 Zero = true
Filter 2 0.628 Zero = true
Filter 3 1.527 Zero = true

CALIBRATION CHECK
Xq = 0.081 1.20%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100144

Date: 02/15/2012
Time: 11:49:48

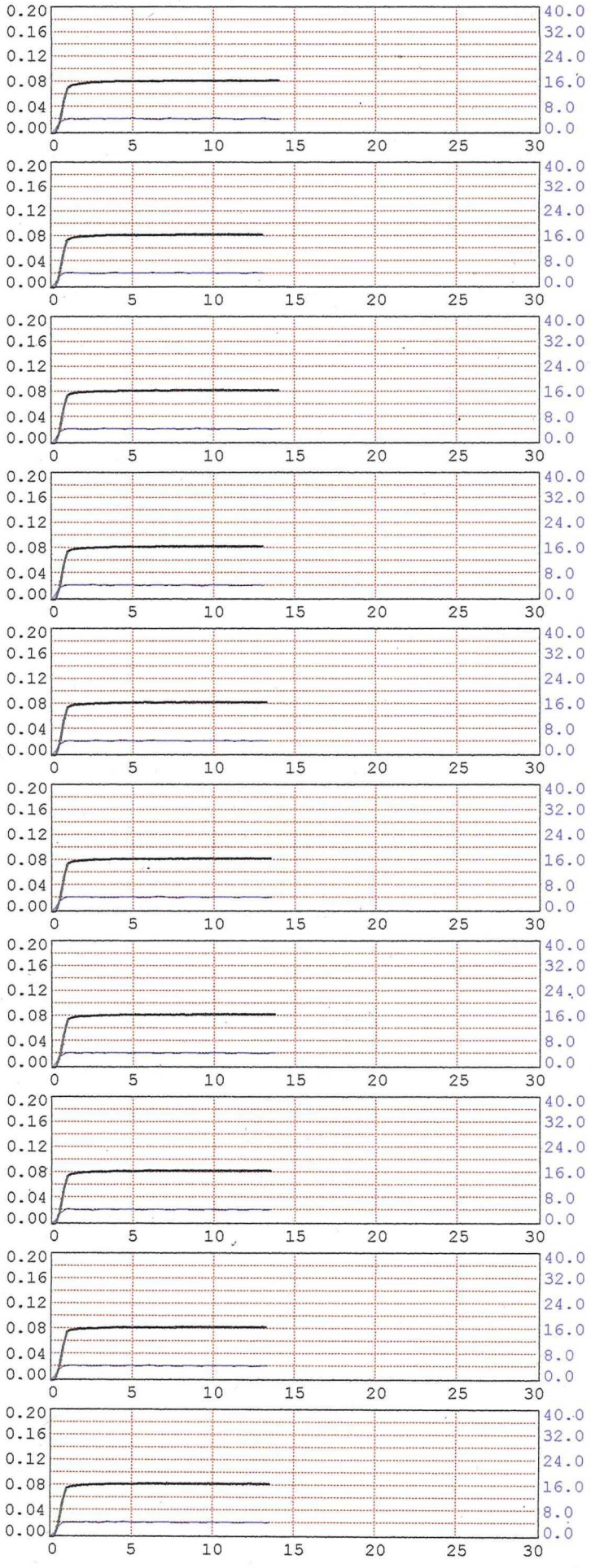
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-57-080A1
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	11:50
CALIBRATION CHECK	PASSED	11:50
SIMULATOR VAPOR 34.2°C	INTERFERENCE	11:51
SIMULATOR VAPOR 34.4°C	INTERFERENCE	11:52
SIMULATOR VAPOR 34.2°C	INTERFERENCE	11:53
SIMULATOR VAPOR 34.4°C	INTERFERENCE	11:54
SIMULATOR VAPOR 34.4°C	INTERFERENCE	11:55
SIMULATOR VAPOR 34.2°C	INTERFERENCE	11:56
SIMULATOR VAPOR 34.2°C	INTERFERENCE	11:57
SIMULATOR VAPOR 34.4°C	INTERFERENCE	11:58
SIMULATOR VAPOR 34.2°C	INTERFERENCE	11:59
SIMULATOR VAPOR 34.2°C	INTERFERENCE	12:00
BLANK TEST	0.000	12:01

100% 02/15/12 SR

0.01 Acetone | 0.080 EtOH [illegible] 2-15-12



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100144

Date: 02/16/2012
Time: 11:32:03

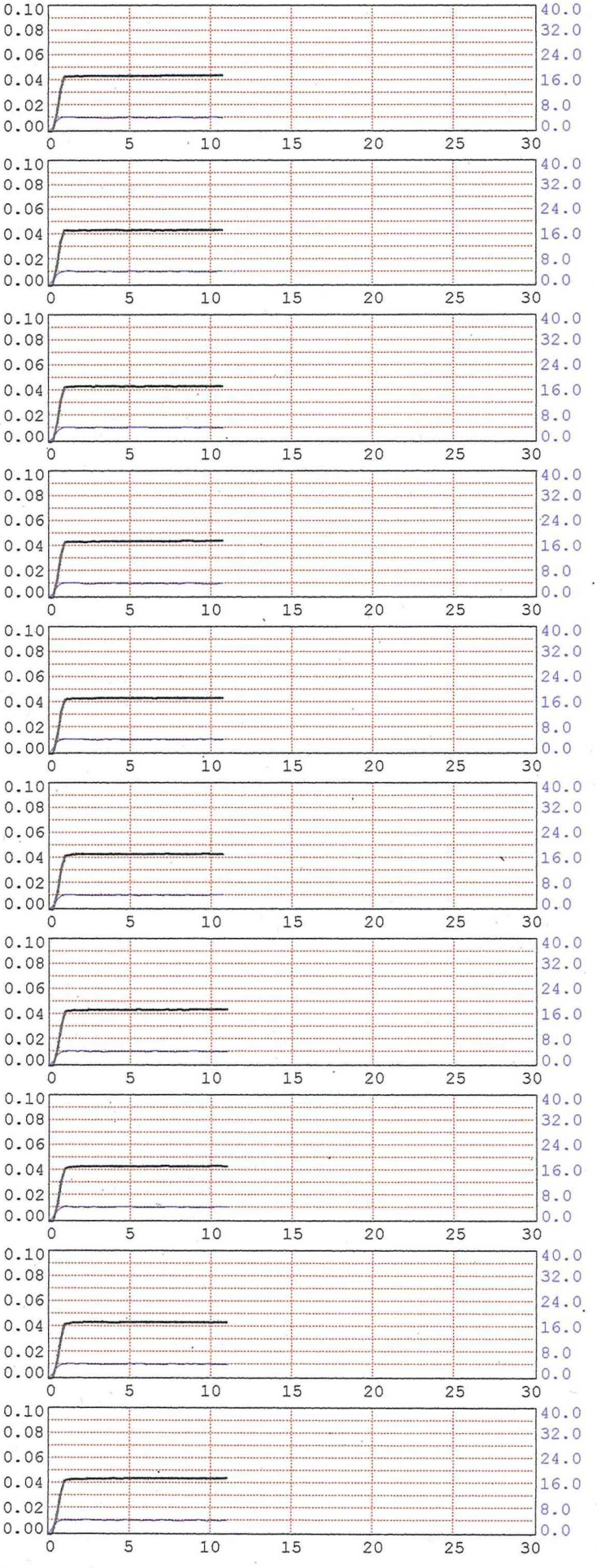
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-49-040A1
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	11:32
CALIBRATION CHECK	PASSED	11:33
SIMULATOR VAPOR 33.9°C	INTERFERENCE	11:33
SIMULATOR VAPOR 33.8°C	INTERFERENCE	11:34
SIMULATOR VAPOR 33.8°C	INTERFERENCE	11:35
SIMULATOR VAPOR 33.8°C	INTERFERENCE	11:36
SIMULATOR VAPOR 33.8°C	INTERFERENCE	11:37
SIMULATOR VAPOR 33.9°C	INTERFERENCE	11:38
SIMULATOR VAPOR 33.9°C	INTERFERENCE	11:39
SIMULATOR VAPOR 33.9°C	INTERFERENCE	11:40
SIMULATOR VAPOR 33.8°C	INTERFERENCE	11:41
SIMULATOR VAPOR 33.9°C	INTERFERENCE	11:42
BLANK TEST	0.000	11:43

100% 02/16/12

0.01 Acetone / 0.040 Ethyl



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100144

Date: 02/16/2012
Time: 11:45:39

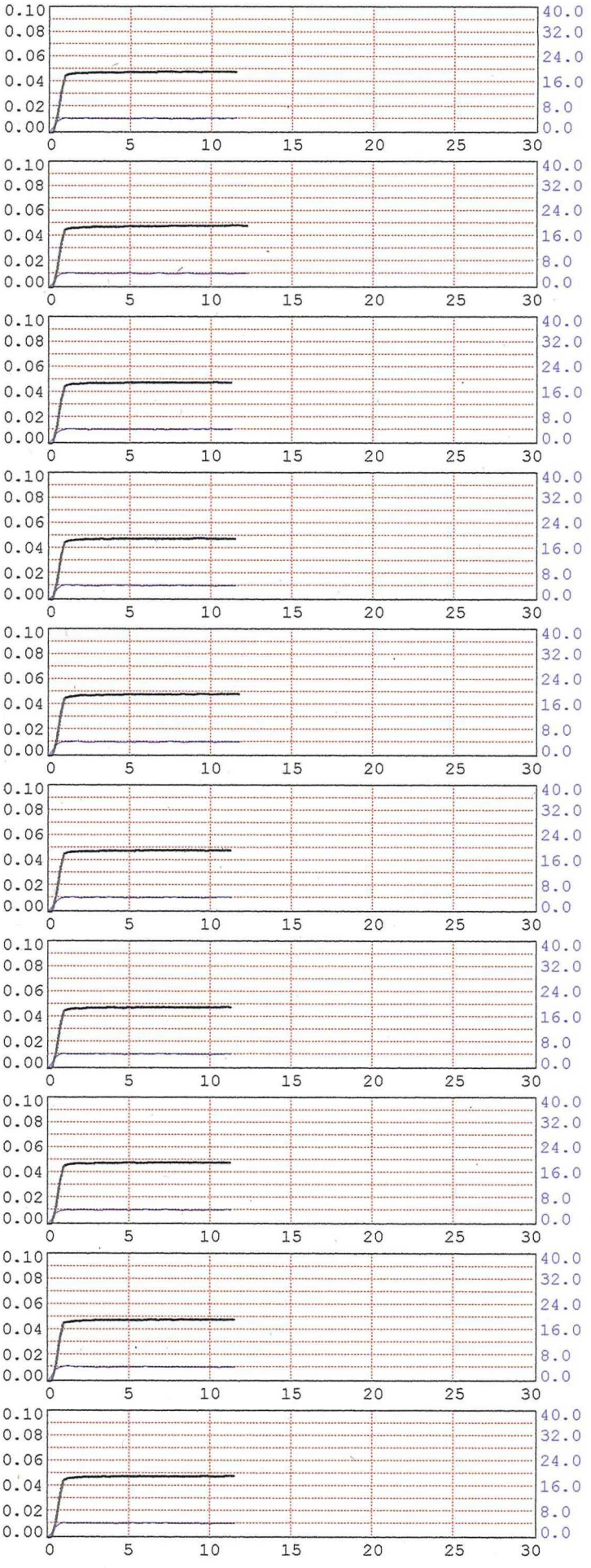
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-49-040A2
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	11:46
CALIBRATION CHECK	PASSED	11:46
SIMULATOR VAPOR 33.9°C	INTERFERENCE	11:46
SIMULATOR VAPOR 33.9°C	INTERFERENCE	11:48
SIMULATOR VAPOR 33.9°C	INTERFERENCE	11:49
SIMULATOR VAPOR 33.8°C	INTERFERENCE	11:50
SIMULATOR VAPOR 33.9°C	INTERFERENCE	11:51
SIMULATOR VAPOR 33.8°C	INTERFERENCE	11:52
SIMULATOR VAPOR 33.9°C	INTERFERENCE	11:53
SIMULATOR VAPOR 33.9°C	INTERFERENCE	11:54
SIMULATOR VAPOR 33.8°C	INTERFERENCE	11:55
SIMULATOR VAPOR 33.9°C	INTERFERENCE	11:56
BLANK TEST	0.000	11:57

100% 02/16/12 SR

0.02 Acetone/0.040 EtOH



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100144

Date: 02/17/2012
Time: 09:47:20

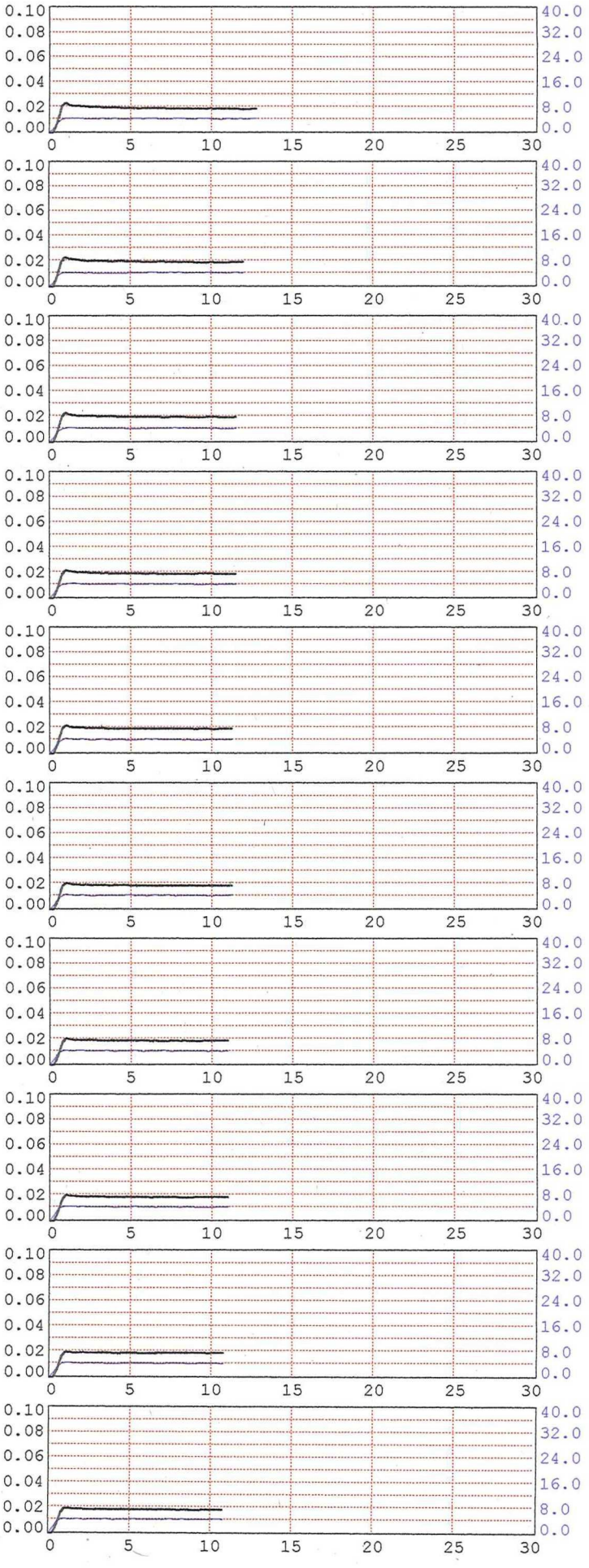
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-55-040M
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	09:48
CALIBRATION CHECK	PASSED	09:48
SIMULATOR VAPOR 34.1°C	INTERFERENCE	09:48
SIMULATOR VAPOR 34.1°C	INTERFERENCE	09:49
SIMULATOR VAPOR 34.1°C	INTERFERENCE	09:50
SIMULATOR VAPOR 34.2°C	INTERFERENCE	09:51
SIMULATOR VAPOR 34.2°C	INTERFERENCE	09:52
SIMULATOR VAPOR 34.2°C	INTERFERENCE	09:53
SIMULATOR VAPOR 34.1°C	INTERFERENCE	09:54
SIMULATOR VAPOR 34.2°C	INTERFERENCE	09:55
SIMULATOR VAPOR 34.1°C	INTERFERENCE	09:56
SIMULATOR VAPOR 34.1°C	INTERFERENCE	09:57
BLANK TEST	0.000	09:58

100% 02/17/12 SH

0.04 $MeOH/H_2O$



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100144

Date: 02/17/2012
Time: 10:01:35

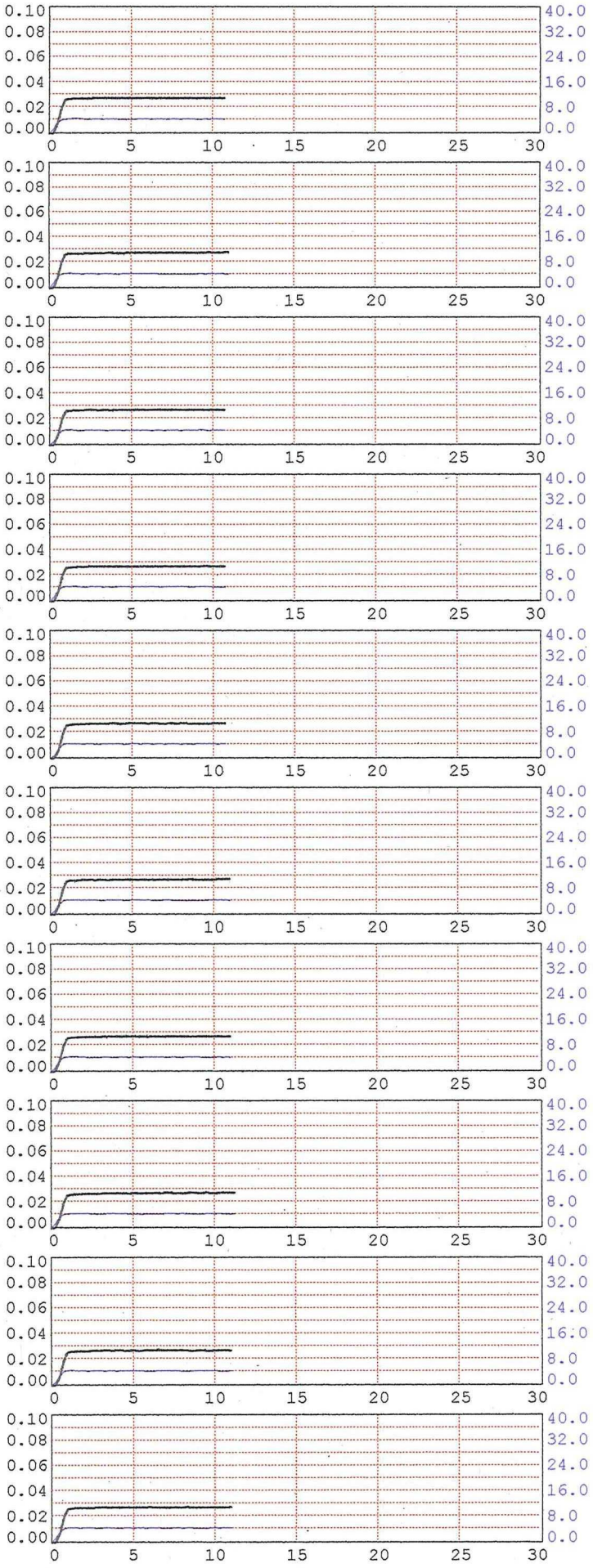
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-56-040I
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	10:02
CALIBRATION CHECK	PASSED	10:02
SIMULATOR VAPOR 34.2°C	INTERFERENCE	10:02
SIMULATOR VAPOR 34.1°C	INTERFERENCE	10:03
SIMULATOR VAPOR 34.1°C	INTERFERENCE	10:04
SIMULATOR VAPOR 34.2°C	INTERFERENCE	10:05
SIMULATOR VAPOR 34.2°C	INTERFERENCE	10:06
SIMULATOR VAPOR 34.2°C	INTERFERENCE	10:08
SIMULATOR VAPOR 34.2°C	INTERFERENCE	10:09
SIMULATOR VAPOR 34.2°C	INTERFERENCE	10:10
SIMULATOR VAPOR 34.1°C	INTERFERENCE	10:11
SIMULATOR VAPOR 34.2°C	INTERFERENCE	10:12
BLANK TEST	0.000	10:12

100% 02/17/12 SL

0.04 IPA/H2O



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100144

Date: 02/17/2012
Time: 13:18:09

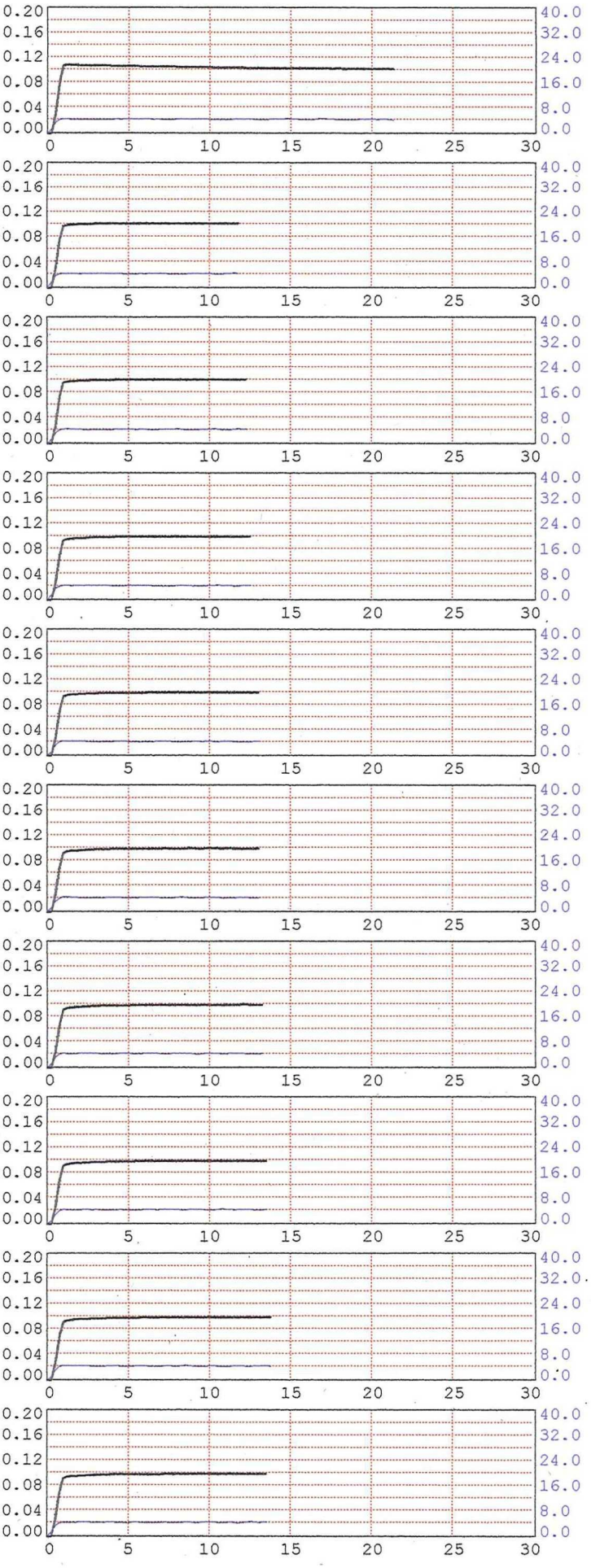
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-57-080M
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	13:19
CALIBRATION CHECK	PASSED	13:19
SIMULATOR VAPOR 33.8°C	INTERFERENCE	13:19
SIMULATOR VAPOR 33.9°C	INTERFERENCE	13:20
SIMULATOR VAPOR 33.8°C	INTERFERENCE	13:21
SIMULATOR VAPOR 33.8°C	INTERFERENCE	13:22
SIMULATOR VAPOR 33.9°C	INTERFERENCE	13:23
SIMULATOR VAPOR 33.9°C	INTERFERENCE	13:24
SIMULATOR VAPOR 33.9°C	INTERFERENCE	13:26
SIMULATOR VAPOR 33.8°C	INTERFERENCE	13:27
SIMULATOR VAPOR 33.9°C	INTERFERENCE	13:28
SIMULATOR VAPOR 33.8°C	INTERFERENCE	13:29
BLANK TEST	0.000	13:30

100% 02/17/12 SA

0.04 MeOH / 0.080 EtOH



DIAGNOSTIC RESULT

DataMaster DMT: 100144
Location:
Calibration Date: 02/14/2012
Certification Date: 02/15/2012
Installation Date:
Test Date: 02/17/2012
Test Time: 13:31:42

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.9°C
Breath Tube = 43.4°C
Digital Sim = 33.9°C

SETTINGS
Lamp Voltage = 1.63 V
Cooler Voltage = 1.61 V
Bias Voltage = 80 V
Chopper Freq = 532 Hz

PUMP INFO
Flow Rate = 5.368 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	0.0016	0.0055
MIN(V)	0.0000	0.0039

FILTER INFO
Filter 1 0.004 Zero = true
Filter 2 0.641 Zero = true
Filter 3 1.541 Zero = true

CALIBRATION CHECK
Xq = 0.080 0.22%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100144

Date: 02/17/2012
Time: 13:34:32

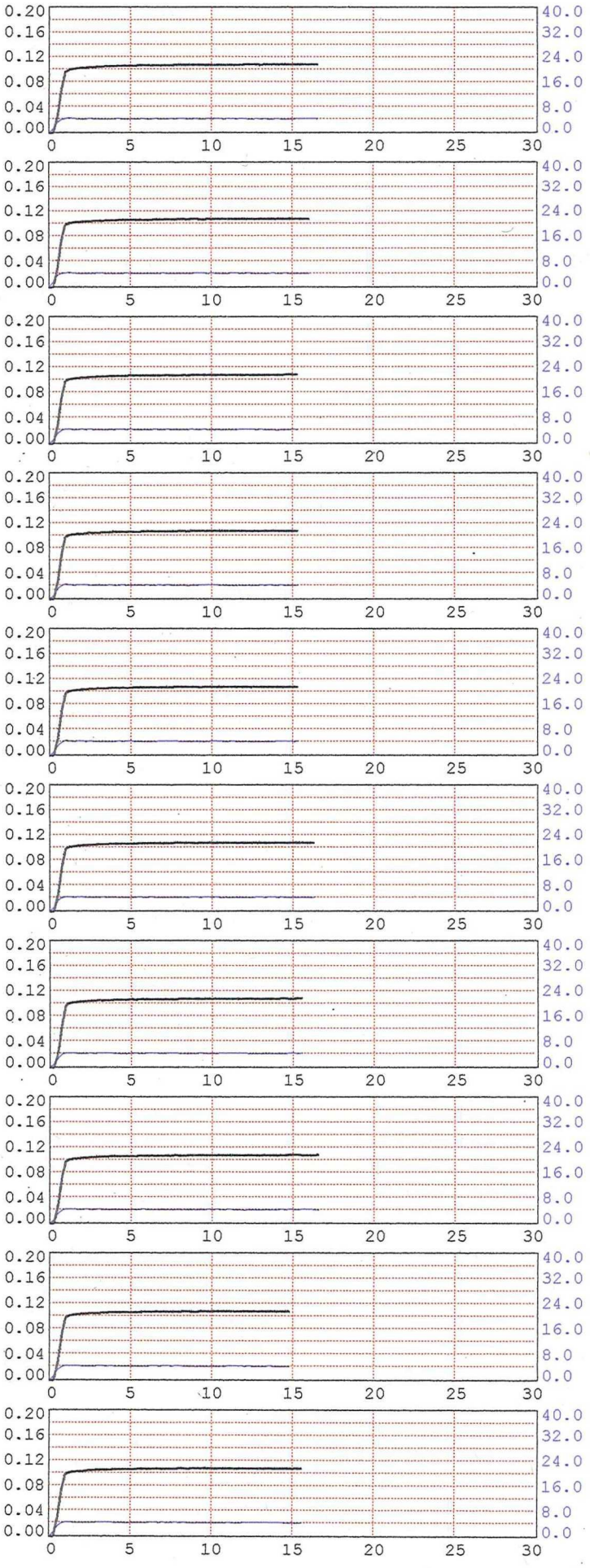
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-57-080I
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	13:35
CALIBRATION CHECK	PASSED	13:35
SIMULATOR VAPOR 33.9°C	INTERFERENCE	13:35
SIMULATOR VAPOR 33.9°C	INTERFERENCE	13:37
SIMULATOR VAPOR 33.9°C	INTERFERENCE	13:38
SIMULATOR VAPOR 33.9°C	INTERFERENCE	13:39
SIMULATOR VAPOR 33.8°C	INTERFERENCE	13:40
SIMULATOR VAPOR 33.9°C	INTERFERENCE	13:41
SIMULATOR VAPOR 33.9°C	INTERFERENCE	13:42
SIMULATOR VAPOR 33.9°C	INTERFERENCE	13:43
SIMULATOR VAPOR 33.9°C	INTERFERENCE	13:44
SIMULATOR VAPOR 33.9°C	INTERFERENCE	13:45
BLANK TEST	0.000	13:46

100% 02/17/12 SM

0.04 IPA / 0.080 EtOH



SECTION 5

FINAL CALIBRATION CHECK TESTS

DIAGNOSTIC RESULT

DataMaster DMT: 100144
Location:
Calibration Date: 02/14/2012
Certification Date: 02/15/2012
Installation Date:
Test Date: 02/17/2012
Test Time: 14:42:27

VERSIONS
DMT: 1.00
PIC: 2.05
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.8°C
Breath Tube = 44.6°C
Digital Sim = 33.9°C

SETTINGS
Lamp Voltage = 1.63 V
Cooler Voltage = 1.61 V
Bias Voltage = 80 V
Chopper Freq = 532 Hz

PUMP INFO
Flow Rate = 5.390 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.0063	-0.0014
MIN(V)	-0.0077	-0.0028

FILTER INFO
Filter 1 -0.002 Zero = true
Filter 2 0.636 Zero = true
Filter 3 1.531 Zero = true

CALIBRATION CHECK
Xq = 0.080 0.33%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100144

Date: 02/17/2012
Time: 14:44:36

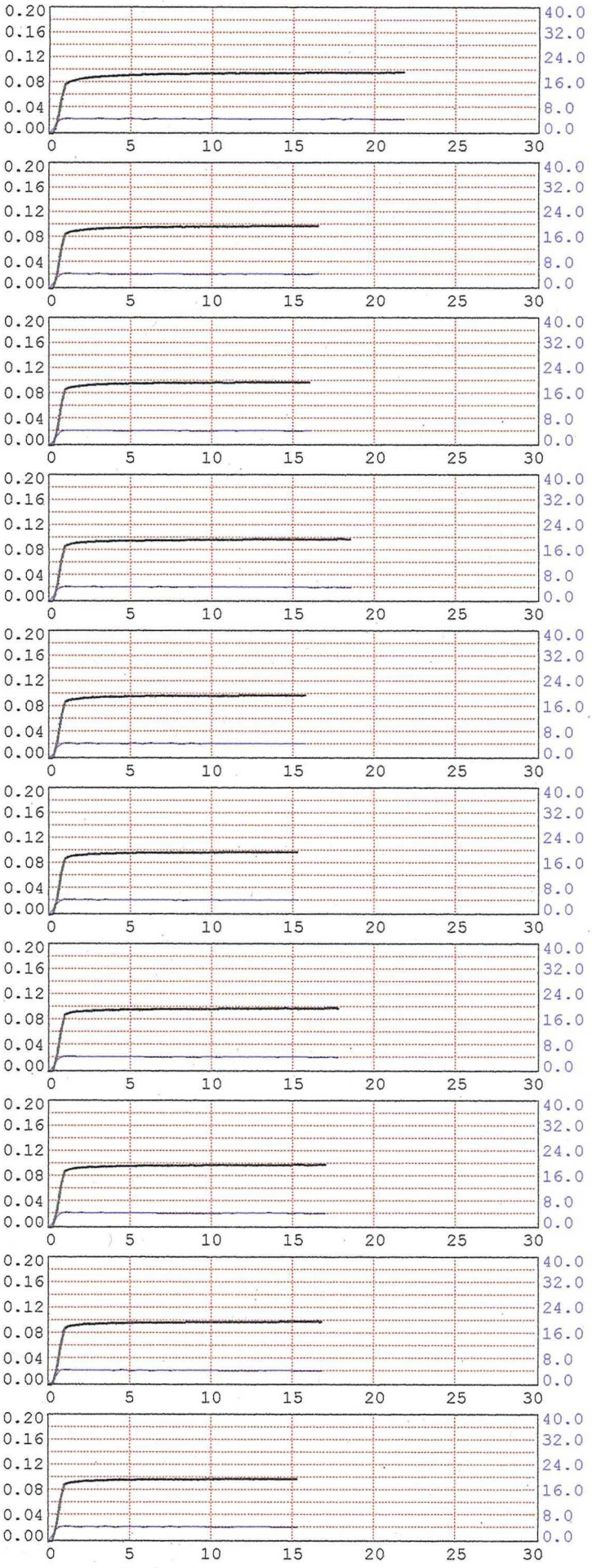
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: 12-39-100
SOLUTION CONCENTRATION: 0.100

BLANK TEST	0.000	14:45
CALIBRATION CHECK	PASSED	14:45
SIMULATOR VAPOR 33.9°C	0.097	14:46
SIMULATOR VAPOR 33.9°C	0.098	14:47
SIMULATOR VAPOR 33.9°C	0.098	14:48
SIMULATOR VAPOR 33.9°C	0.099	14:49
SIMULATOR VAPOR 33.8°C	0.099	14:50
SIMULATOR VAPOR 33.8°C	0.099	14:51
SIMULATOR VAPOR 33.9°C	0.099	14:52
SIMULATOR VAPOR 33.8°C	0.099	14:54
SIMULATOR VAPOR 33.8°C	0.099	14:55
SIMULATOR VAPOR 33.9°C	0.099	14:56
BLANK TEST	0.000	14:57

Average = 0.098
Std Dev = 0.000

In-House Cal Check 02/17/12 SM



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100144

Date: 02/17/2012
Time: 15:01:05

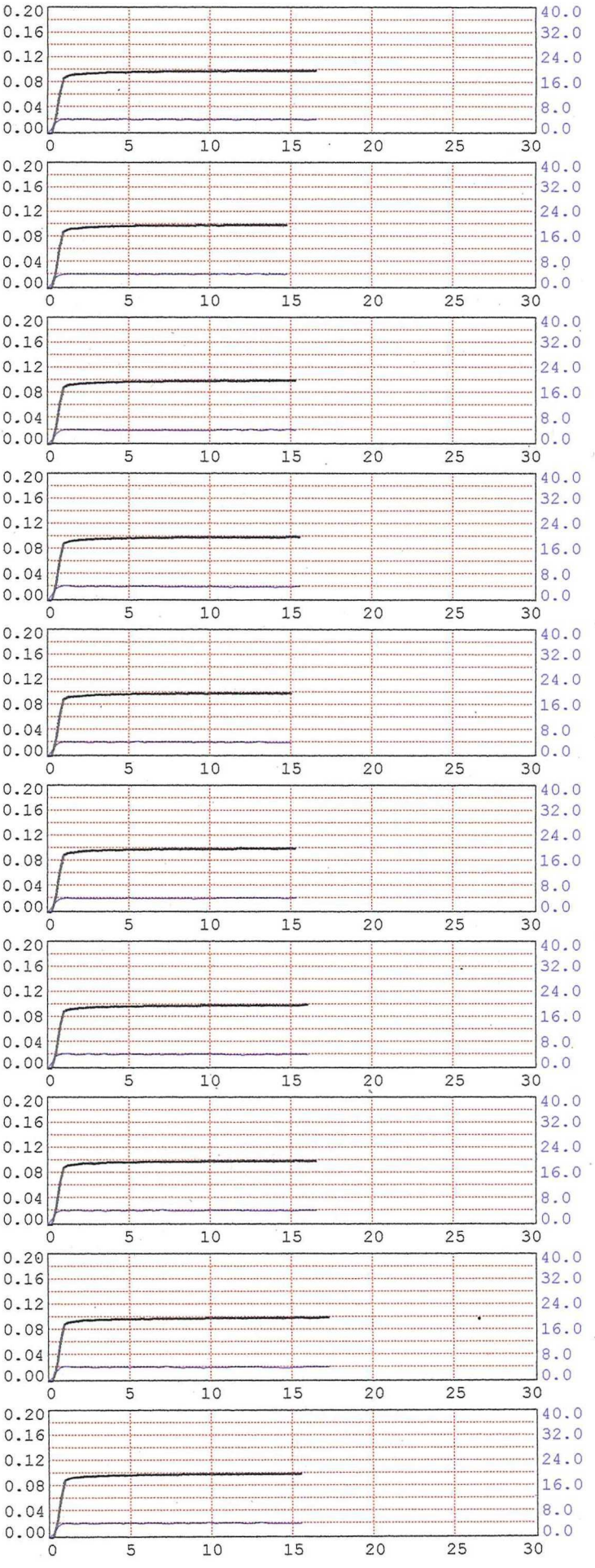
SUPERVISOR NAME:
STEVEN R MERRILL

SOLUTION LOT #: GUTH 11250
SOLUTION CONCENTRATION: 0.100

BLANK TEST	0.000	15:02
CALIBRATION CHECK	PASSED	15:02
SIMULATOR VAPOR 34.0°C	0.099	15:02
SIMULATOR VAPOR 34.1°C	0.099	15:03
SIMULATOR VAPOR 34.1°C	0.100	15:04
SIMULATOR VAPOR 34.1°C	0.100	15:05
SIMULATOR VAPOR 34.1°C	0.099	15:06
SIMULATOR VAPOR 34.1°C	0.100	15:08
SIMULATOR VAPOR 34.1°C	0.099	15:09
SIMULATOR VAPOR 34.2°C	0.100	15:10
SIMULATOR VAPOR 34.1°C	0.100	15:11
SIMULATOR VAPOR 34.1°C	0.100	15:12
BLANK TEST	0.000	15:13

Average = 0.099
Std Dev = 0.000

2nd Source Cal Check 02/17/12 SR



SECTION 6

ERROR REPORTS

NONE FOR THIS UNIT