SECTION 4

INTERFERENCE TESTS

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100163

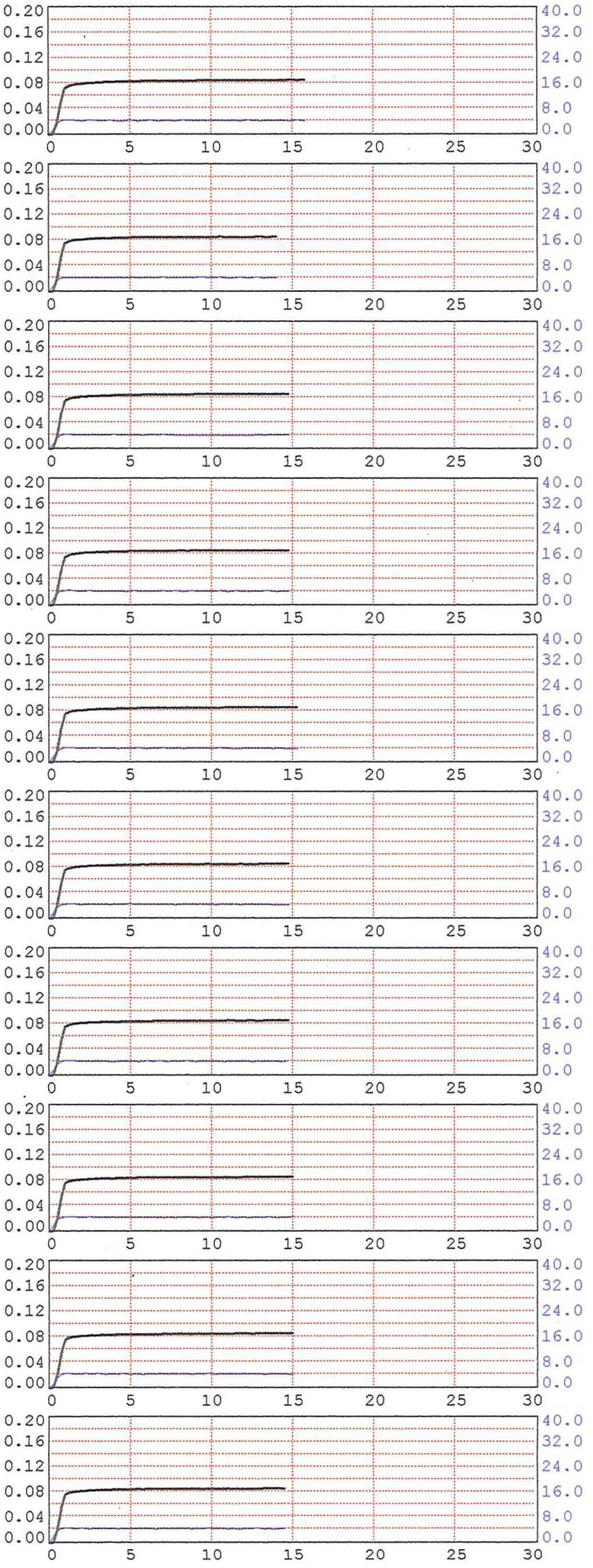
Date: 09/14/2011
Time: 14:43:58

SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-09-080A1
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	14:44
CALIBRATION CHECK	PASSED	14:44
SIMULATOR VAPOR 34.2°C	INTERFERENCE	14:45
SIMULATOR VAPOR 34.4°C	INTERFERENCE	14:46
SIMULATOR VAPOR 34.4°C	INTERFERENCE	14:47
SIMULATOR VAPOR 34.2°C	INTERFERENCE	14:48
SIMULATOR VAPOR 34.4°C	INTERFERENCE	14:49
SIMULATOR VAPOR 34.4°C	INTERFERENCE	14:50
SIMULATOR VAPOR 34.4°C	INTERFERENCE	14:52
SIMULATOR VAPOR 34.4°C	INTERFERENCE	14:53
SIMULATOR VAPOR 34.4°C	INTERFERENCE	14:54
SIMULATOR VAPOR 34.2°C	INTERFERENCE	14:55
BLANK TEST	0.000	14:56

0.01 Acetone
0.080 EtOH
KLK
9-14-11



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100163

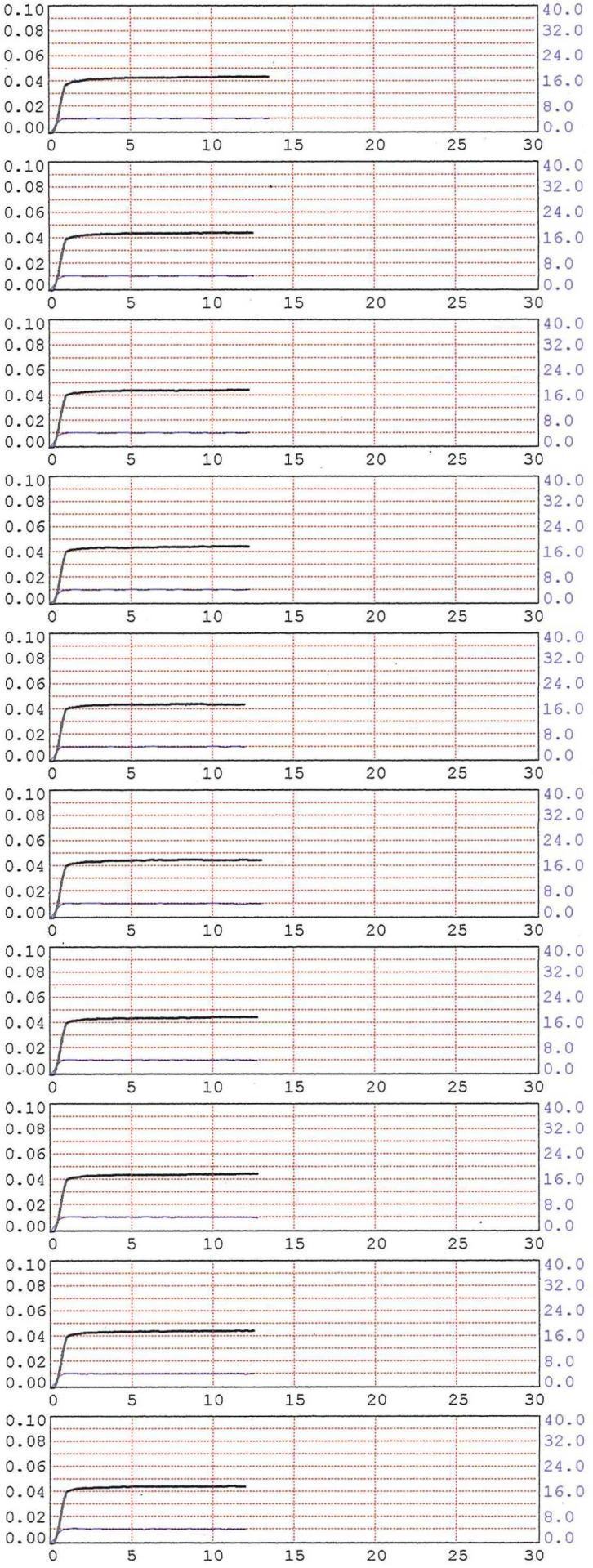
Date: 09/15/2011
Time: 12:21:16

SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-10-040A1
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	12:22
CALIBRATION CHECK	PASSED	12:22
SIMULATOR VAPOR 34.2°C	INTERFERENCE	12:22
SIMULATOR VAPOR 34.4°C	INTERFERENCE	12:23
SIMULATOR VAPOR 34.4°C	INTERFERENCE	12:24
SIMULATOR VAPOR 34.4°C	INTERFERENCE	12:25
SIMULATOR VAPOR 34.2°C	INTERFERENCE	12:26
SIMULATOR VAPOR 34.4°C	INTERFERENCE	12:27
SIMULATOR VAPOR 34.4°C	INTERFERENCE	12:28
SIMULATOR VAPOR 34.4°C	INTERFERENCE	12:30
SIMULATOR VAPOR 34.4°C	INTERFERENCE	12:31
SIMULATOR VAPOR 34.2°C	INTERFERENCE	12:32
BLANK TEST	0.000	12:33

0.01 Acetone
0.040 EtOH
KLK
9-15-11



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100163

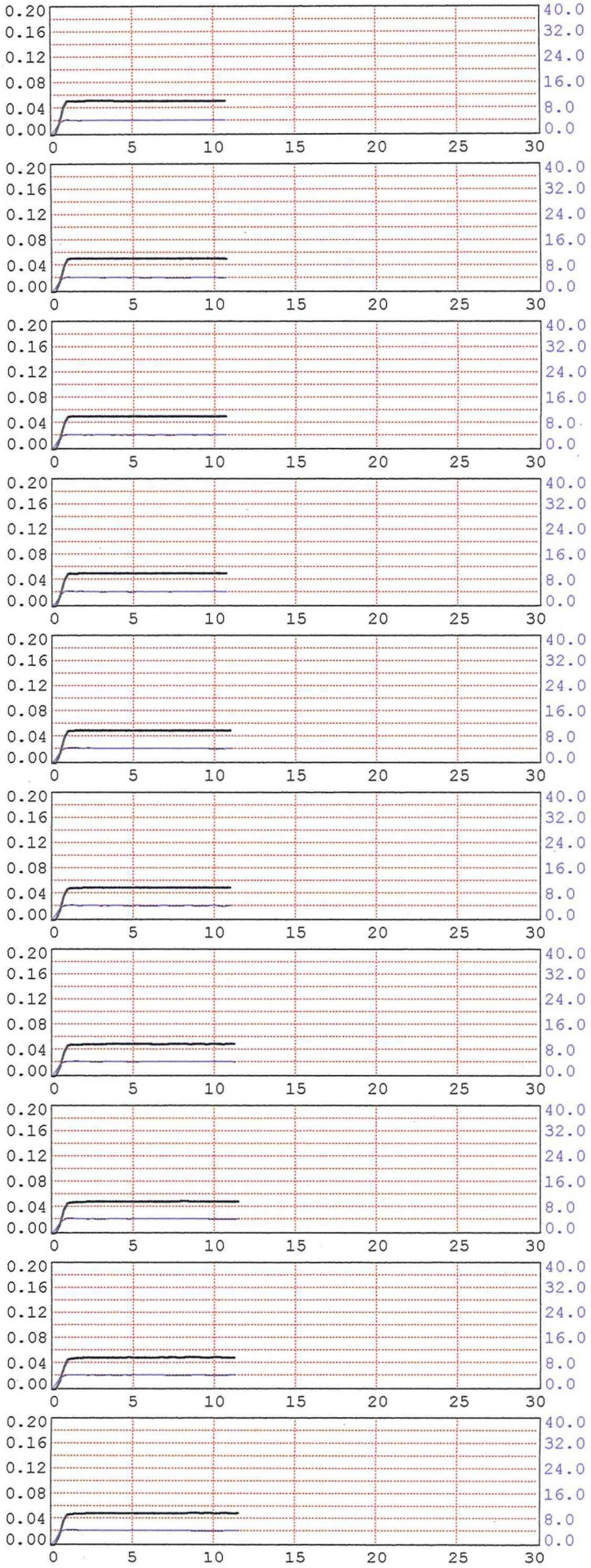
Date: 09/16/2011
Time: 08:41:46

SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-01-040A2
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	08:42
CALIBRATION CHECK	PASSED	08:42
SIMULATOR VAPOR 34.4°C	INTERFERENCE	08:43
SIMULATOR VAPOR 34.4°C	INTERFERENCE	08:44
SIMULATOR VAPOR 34.4°C	INTERFERENCE	08:45
SIMULATOR VAPOR 34.4°C	INTERFERENCE	08:46
SIMULATOR VAPOR 34.4°C	INTERFERENCE	08:47
SIMULATOR VAPOR 34.4°C	INTERFERENCE	08:48
SIMULATOR VAPOR 34.4°C	INTERFERENCE	08:49
SIMULATOR VAPOR 34.4°C	INTERFERENCE	08:50
SIMULATOR VAPOR 34.2°C	INTERFERENCE	08:51
SIMULATOR VAPOR 34.4°C	INTERFERENCE	08:52
BLANK TEST	0.000	08:53

100% Acetone
0.02
0.040 EtOH
KLK
9-16-11



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100163

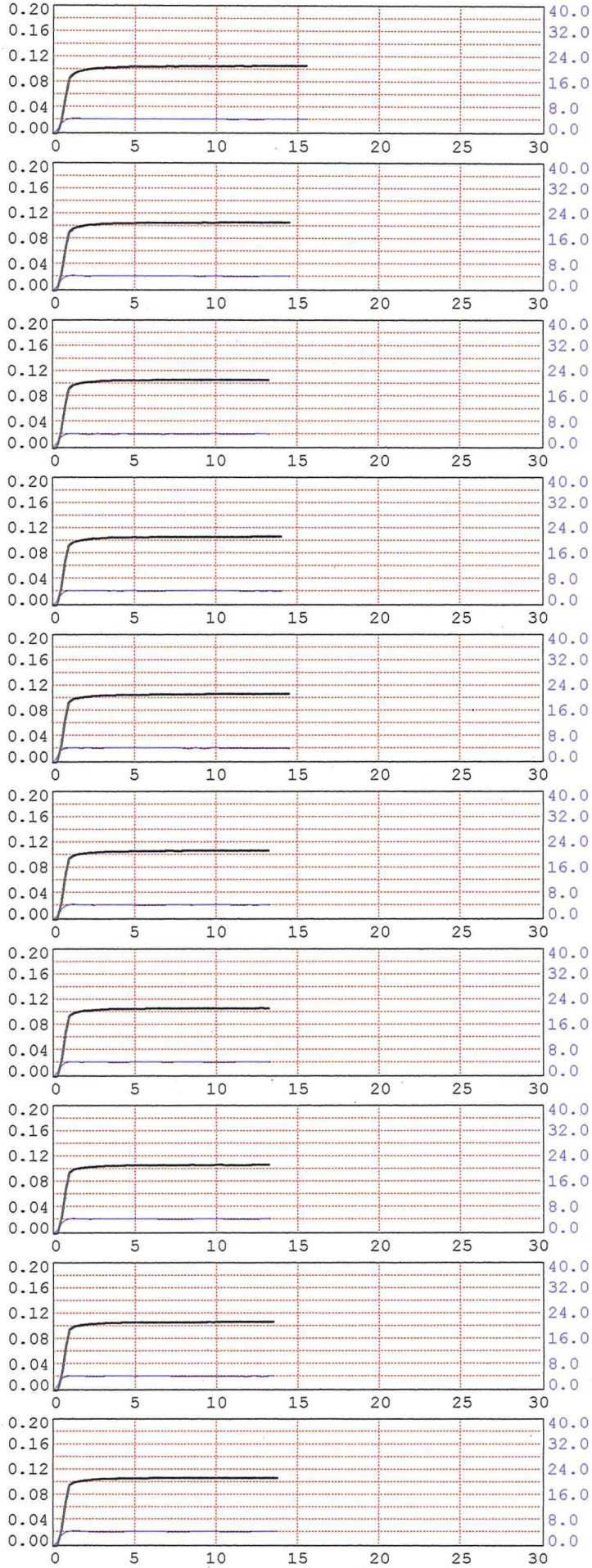
Date: 09/16/2011
Time: 09:32:47

SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-10-080I
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	09:33
CALIBRATION CHECK	PASSED	09:33
SIMULATOR VAPOR 34.4°C	INTERFERENCE	09:34
SIMULATOR VAPOR 34.2°C	INTERFERENCE	09:35
SIMULATOR VAPOR 34.4°C	INTERFERENCE	09:36
SIMULATOR VAPOR 34.4°C	INTERFERENCE	09:37
SIMULATOR VAPOR 34.4°C	INTERFERENCE	09:38
SIMULATOR VAPOR 34.4°C	INTERFERENCE	09:39
SIMULATOR VAPOR 34.5°C	INTERFERENCE	09:40
SIMULATOR VAPOR 34.4°C	INTERFERENCE	09:41
SIMULATOR VAPOR 34.4°C	INTERFERENCE	09:42
SIMULATOR VAPOR 34.4°C	INTERFERENCE	09:44
BLANK TEST	0.000	09:44

100%
0.04 IPA
0.080 EtOH
KLK
9-16-11



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100163

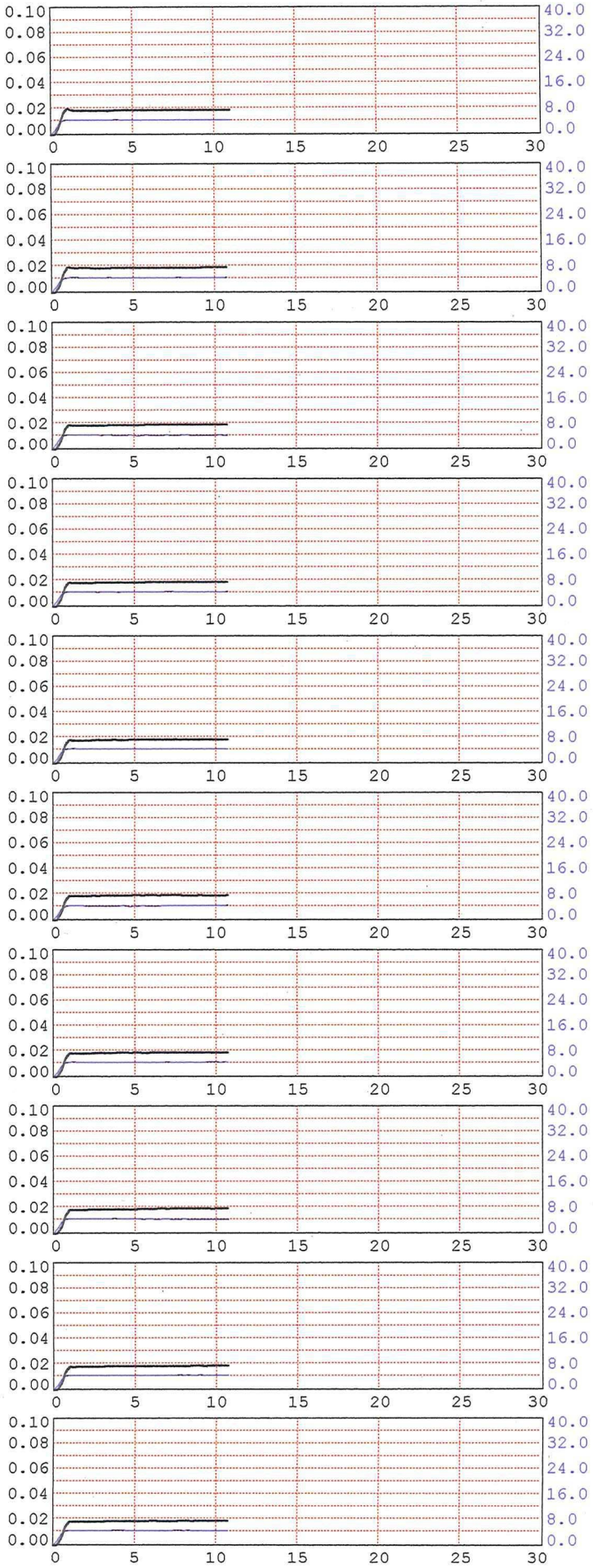
Date: 09/16/2011
Time: 13:47:19

SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-05-040M
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	13:48
CALIBRATION CHECK	PASSED	13:48
SIMULATOR VAPOR 34.2°C	INTERFERENCE	13:48
SIMULATOR VAPOR 34.4°C	INTERFERENCE	13:49
SIMULATOR VAPOR 34.4°C	INTERFERENCE	13:50
SIMULATOR VAPOR 34.4°C	INTERFERENCE	13:51
SIMULATOR VAPOR 34.4°C	INTERFERENCE	13:52
SIMULATOR VAPOR 34.5°C	INTERFERENCE	13:53
SIMULATOR VAPOR 34.4°C	INTERFERENCE	13:54
SIMULATOR VAPOR 34.4°C	INTERFERENCE	13:55
SIMULATOR VAPOR 34.4°C	INTERFERENCE	13:56
SIMULATOR VAPOR 34.4°C	INTERFERENCE	13:57
BLANK TEST	0.000	13:58

100%
0.04 MeOH
in
Water
MEC
9-16-11



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100163

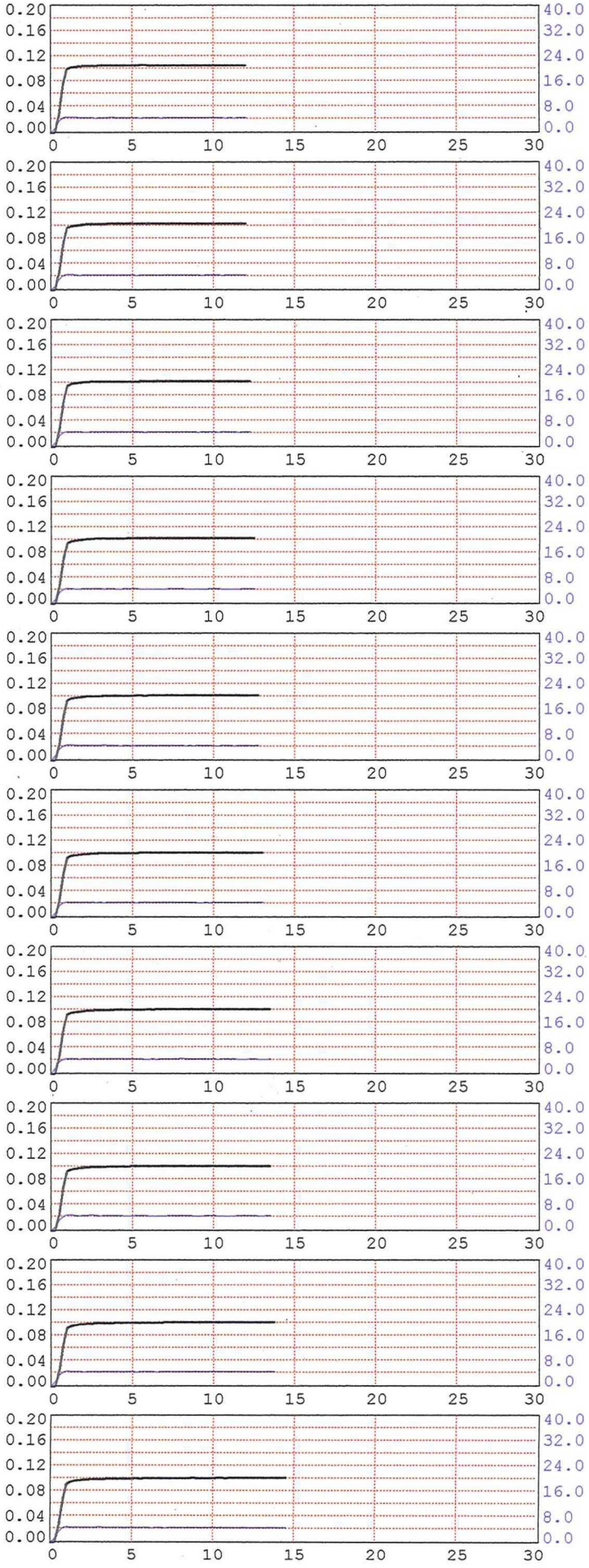
Date: 09/19/2011
Time: 08:19:54

SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-04-080M
SOLUTION CONCENTRATION: 0.080

BLANK TEST	0.000	08:20
CALIBRATION CHECK	PASSED	08:20
SIMULATOR VAPOR 34.4°C	INTERFERENCE	08:21
SIMULATOR VAPOR 34.4°C	INTERFERENCE	08:22
SIMULATOR VAPOR 34.2°C	INTERFERENCE	08:23
SIMULATOR VAPOR 34.4°C	INTERFERENCE	08:24
SIMULATOR VAPOR 34.4°C	INTERFERENCE	08:25
SIMULATOR VAPOR 34.4°C	INTERFERENCE	08:26
SIMULATOR VAPOR 34.4°C	INTERFERENCE	08:27
SIMULATOR VAPOR 34.4°C	INTERFERENCE	08:28
SIMULATOR VAPOR 34.4°C	INTERFERENCE	08:29
SIMULATOR VAPOR 34.4°C	INTERFERENCE	08:30
BLANK TEST	0.000	08:31

100%
KLK
9-19-11
0.04 MeOH
0.080 EtOH



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100163

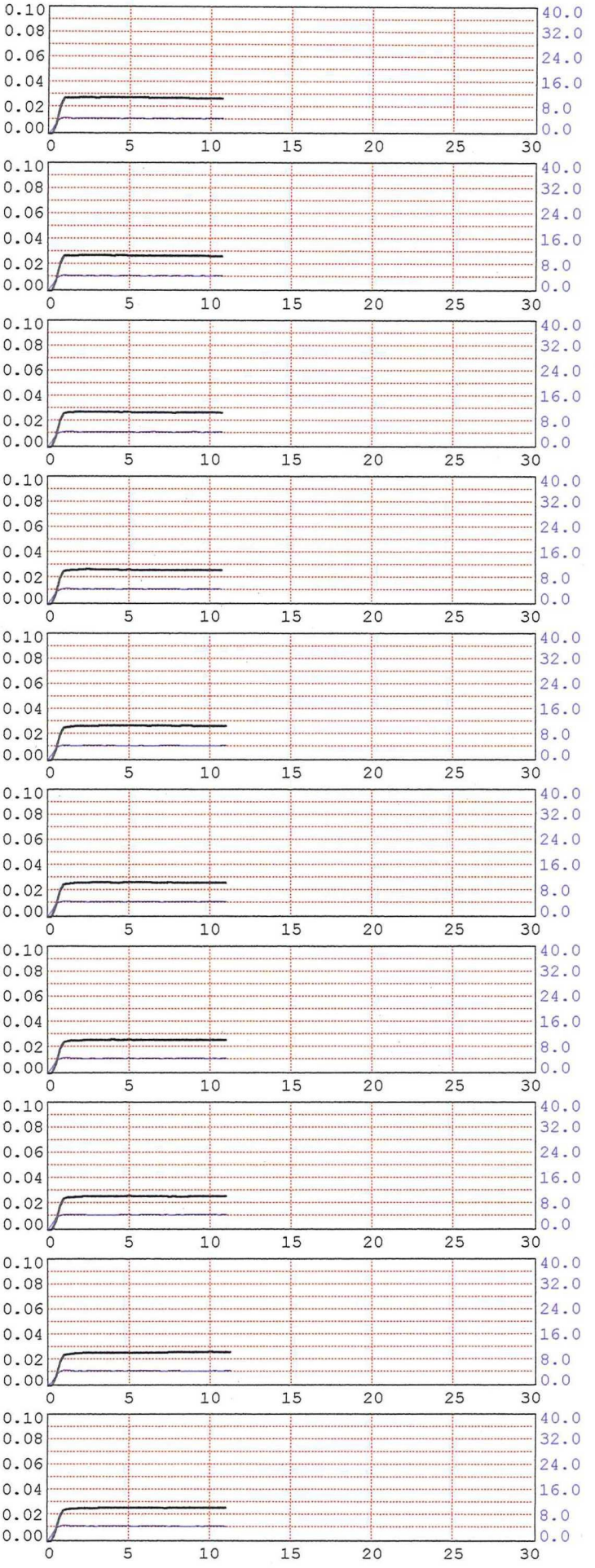
Date: 09/19/2011
Time: 10:53:56

SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 12-06-040I
SOLUTION CONCENTRATION: 0.040

BLANK TEST	0.000	10:54
CALIBRATION CHECK	PASSED	10:54
SIMULATOR VAPOR 34.4°C	INTERFERENCE	10:55
SIMULATOR VAPOR 34.2°C	INTERFERENCE	10:56
SIMULATOR VAPOR 34.4°C	INTERFERENCE	10:57
SIMULATOR VAPOR 34.4°C	INTERFERENCE	10:58
SIMULATOR VAPOR 34.2°C	INTERFERENCE	10:59
SIMULATOR VAPOR 34.2°C	INTERFERENCE	11:00
SIMULATOR VAPOR 34.2°C	INTERFERENCE	11:01
SIMULATOR VAPOR 34.2°C	INTERFERENCE	11:02
SIMULATOR VAPOR 34.2°C	INTERFERENCE	11:03
SIMULATOR VAPOR 34.4°C	INTERFERENCE	11:04
BLANK TEST	0.000	11:05

100% 0.04 IPA in H2O
KLK 9-19-11



SECTION 5

FINAL CALIBRATION CHECK TESTS

DIAGNOSTIC RESULT

DataMaster DMT: 100163
Location:
Calibration Date: 09/14/2011
Certification Date: 09/15/2011
Installation Date:
Test Date: 09/19/2011
Test Time: 11:10:03

VERSIONS
DMT: 1.00
PIC: 2.06
Modem: 2.1
Questions: 2.0

TEMPERATURES

Sample Chamber = 48.8°C
Breath Tube = 44.2°C
Digital Sim = 0.0°C

SETTINGS
Lamp Voltage = 1.80 V
Cooler Voltage = 1.58 V
Bias Voltage = 80 V
Chopper Freq = 554 Hz

PUMP INFO
Flow Rate = 5.231 L/M

DETECTOR INFO

PUMP	ON	OFF
MAX(V)	-0.0508	-0.0472
MIN(V)	-0.0518	-0.0484

FILTER INFO

Filter 1	-0.047	Zero = true
Filter 2	0.160	Zero = true
Filter 3	0.551	Zero = true

CALIBRATION CHECK
Xq = 0.078 0.11%

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100163

Date: 09/19/2011
Time: 11:13:56

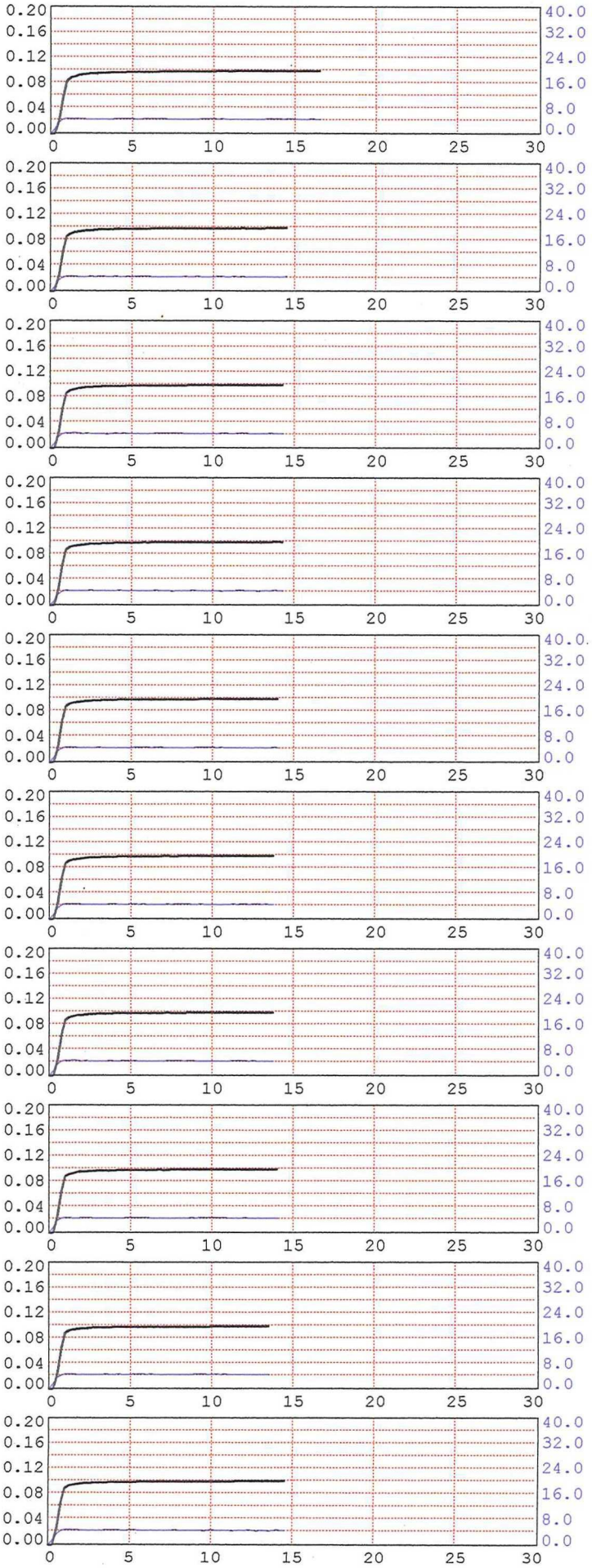
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: GUTH 11050
SOLUTION CONCENTRATION: 0.100

BLANK TEST	0.000	11:14
CALIBRATION CHECK	PASSED	11:14
SIMULATOR VAPOR 34.4°C	0.099	11:15
SIMULATOR VAPOR 34.2°C	0.099	11:16
SIMULATOR VAPOR 34.2°C	0.099	11:17
SIMULATOR VAPOR 34.4°C	0.099	11:18
SIMULATOR VAPOR 34.4°C	0.099	11:19
SIMULATOR VAPOR 34.4°C	0.099	11:20
SIMULATOR VAPOR 34.4°C	0.099	11:21
SIMULATOR VAPOR 34.2°C	0.099	11:23
SIMULATOR VAPOR 34.4°C	0.099	11:24
SIMULATOR VAPOR 34.2°C	0.099	11:25
BLANK TEST	0.000	11:26

Average = 0.099
Std Dev = 0.000

2nd source
Cal. Check
KLK
9-19-11



ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMater DMT: 100163

Date: 09/19/2011
Time: 11:47:45

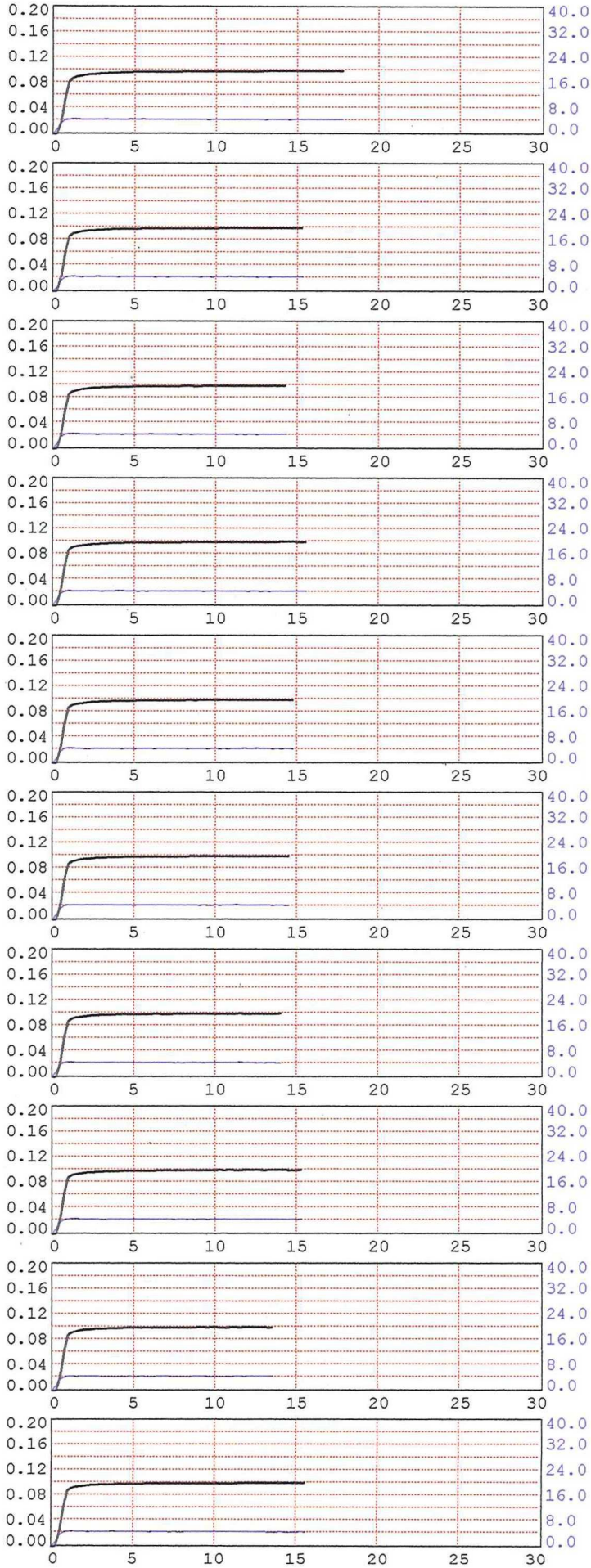
SUPERVISOR NAME:
KIRK L KIMBALL

SOLUTION LOT #: 11-39-100
SOLUTION CONCENTRATION: 0.100

BLANK TEST	0.000	11:48
CALIBRATION CHECK	PASSED	11:48
SIMULATOR VAPOR 34.2°C	0.099	11:49
SIMULATOR VAPOR 34.1°C	0.099	11:50
SIMULATOR VAPOR 34.2°C	0.099	11:51
SIMULATOR VAPOR 34.4°C	0.100	11:52
SIMULATOR VAPOR 34.2°C	0.099	11:53
SIMULATOR VAPOR 34.2°C	0.099	11:54
SIMULATOR VAPOR 34.4°C	0.100	11:55
SIMULATOR VAPOR 34.2°C	0.100	11:56
SIMULATOR VAPOR 34.2°C	0.100	11:58
SIMULATOR VAPOR 34.2°C	0.100	11:59
BLANK TEST	0.000	12:00

Average = 0.099
Std Dev = 0.000

In house Cal Check KLK 9-19-11



SECTION 6

ERROR REPORTS

Vermont Department of Health Laboratory
195 Colchester Avenue, P.O. Box 1125, Burlington VT 05402-1125
DataMaster Technical Services (ph) 802-863-7641; (fax) 802-863-7632

DATAMASTER TECHNICAL SUPPORT INQUIRY

Agency/Site: VDHL **DataMaster Serial #:** 100163

Date: 9/ 14/2011 Requestor: Kimball

Instrument Supervisor: Phone #:

Taken By: Harnois

Problem: NEP Detector needs to be replaced

Laboratory Response:

Work Performed:

Replaced NEP Detector with a Hamamatsu detector from stock.

Witnessed by KLK 9/14/11

☐ On Site ☒ In-house Attachments: _____ pages

Performed By: Steven Harnois SH 9/15/2011 Date: 9/14/2011

Final Review: Kirk L. Kimball KLK 9/15/11 Date: 9/15/11

Reviewed LeBoldue 9/15/11