

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 2/2/2015
Effective: 2/2/2015

Version: DMCEF 2015 R0
Status: Active

Instrument S/N 100673 Analyst Brandi Barnett Start Date 5/26/15

1. Diagnostic Test (attached) ☒
2. Voltage Checks
 - a. Adjust voltages, if needed ☒
 - i. Lamp (2.6V Maximum)
 - ii. Bias
 - iii. Cooler (2.0V Maximum)
 - b. Set RFI ☒
 - c. Adjust barometer reading to match NIST traceable barometer ☒
 - d. Adjust volume setting, if needed (1.5L +/- 0.1L) ☒
 - e. Print Technician Screen (attached)
3. Print Calibration Factors (attached)
4. Volume Test - Minimum 1.6 L (1.3L to 1.7L) ☒
5. Linearity Test (attached)

a. Levels Used

- i. 0.020g/210L Mnf ILMO Lot 02915020A2 Exp 3/5/17
- ii. 0.040g/210L Mnf ILMO Lot 02915040A3 Exp 3/5/17
- iii. 0.080g/210L Mnf ILMO Lot 11313080A1 Exp 6/1/15
- iv. 0.100g/210L Mnf ILMO Lot 02915100A1 Exp 3/5/17
- v. 0.200g/210L Mnf Guth Lot 13220 Exp 8/5/15
 1. Simulator S/N SDi200 Date Calibrated 1/20/15
- vi. 0.300g/210L Mnf Guth Lot 14270 Exp 12/2/16
 1. Simulator S/N DR4267 Date Calibrated 1/20/15

6. Functional Tests (attached)

- a. Incomplete ☒
- b. Invalid ☒
- c. Interference ☒
- d. Exceeded attempts ☒

- i. Acetone - Mnf Guth Lot 14110 Level 0.100 Exp 5/1/16
 1. Simulator S/N DR4162 Date Calibrated 1/19/2015
- ii. Isopropanol - Mnf Guth Lot 14110 Level 0.100 Exp 5/1/16
 1. Simulator S/N DR4163 Date Calibrated 1/19/15
- iii. Negative Control - Mnf Guth Lot 1430 Level 0.100 Exp 1/20/16
 1. Simulator S/N DR4178 Date Calibrated 1/19/15

c. RFI ☒

7. Verify stylus is calibrated ☒
8. Reset Options ☒
9. Clear Memory ☒
10. Verification of Calibration ☒
11. Non-Drinking Subject Test (attached) ☒
12. Upload ☒
13. Remove tank prior to shut down ☒

End Date 5/27/15

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100673

Date: 05/26/2015
Time: 10:11:34

VERSIONS

DMT: 3.01
PIC: 3.03
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.7°C	PASSED
Breath Tube = 47.8°C	PASSED

PUMP INFO

Flow Rate = 4.724 L/M	PASSED
-----------------------	--------

DETECTOR INFO

PUMP ON	PASSED
PUMP OFF	PASSED

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

PASSED

Technician Screen

DATAMASTER dmt: 100673

Date: 05/26/2015

Time: 10:25 AM

Temperatures (°C)

Sample Cell: 49.2°C

Breath Tube: 47.4°C

Current Barometer 29.9 in

Volume (Ltr) 1.53

Settings

Lamp: 1.62 V

Bias: 79 V

Cooler: 1.68 V

Chopper: 561 Hz

Voltages (V)

Flow: 1.06 V

Detector: -0.082 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100673

Date: 05/16/2013
Time: 07:20:31

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

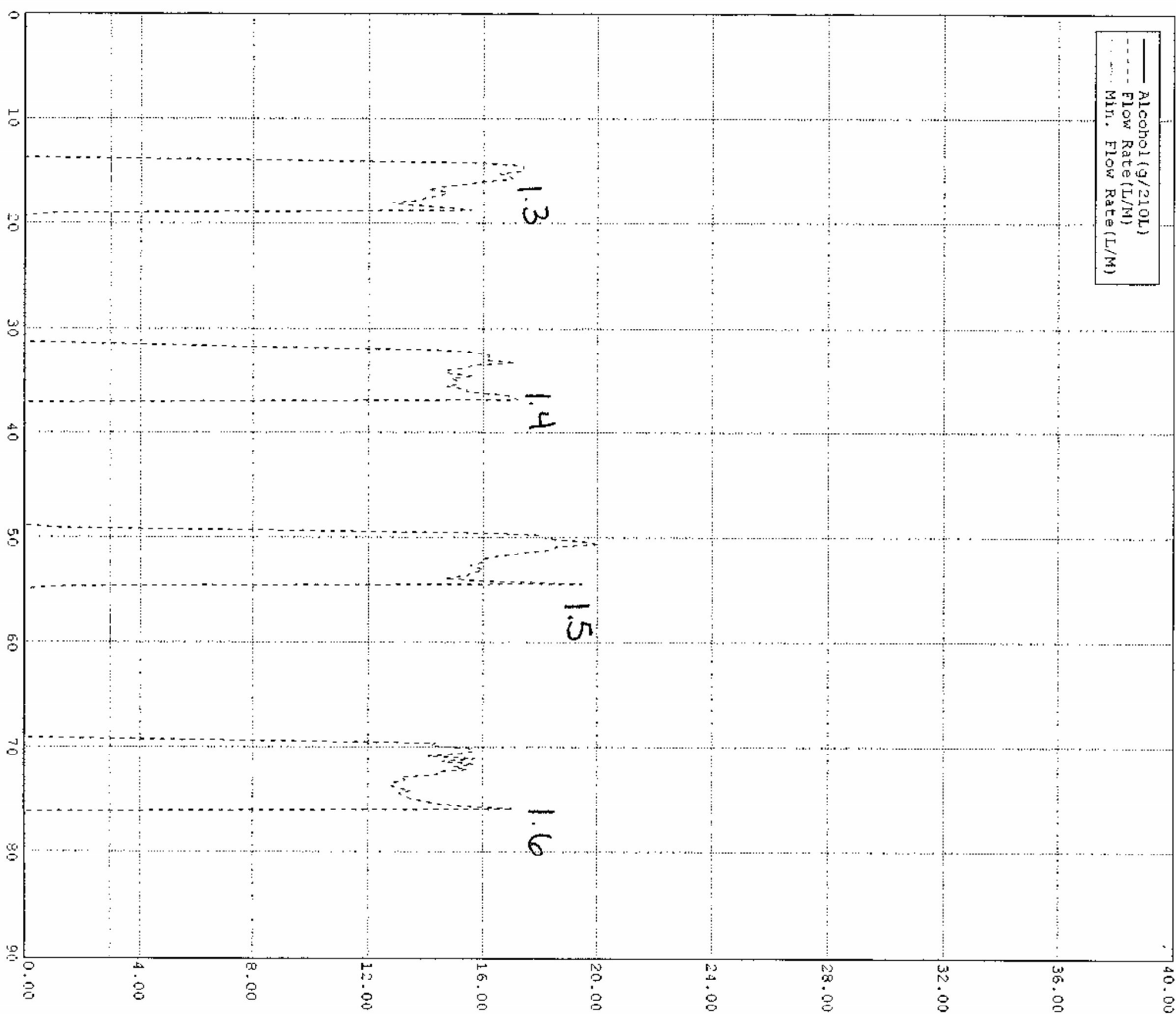
Ca = 0.1000
CAL = 0.973020 0.800 <= CAL < 1.200
b1 = 0.0015 0.0000 <= b1 < 0.0040
b2 = 0.0082 0.0010 <= b2 < 0.0100
b3 = 0.0010 0.0000 <= b3 < 0.0040
Xq = 0.0747 0.0500 <= Xq < 0.2000
a21 = 1.200262 1.050 <= a21 < 1.300
a31 = 0.446870 0.300 <= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dnt: 100673Date: 05/26/2015
Time: 15:32:39SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038DEPT/AGENCY:
VOLUME TEST
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.92: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	15:36
BLANK TEST	0.000	15:36
INTERNAL STANDARD	VERIFIED	15:36
EXTERNAL STANDARD	0.080	15:37
BLANK TEST	0.000	15:38
SUBJECT SAMPLE (Vol=1.59L)	0.000	15:39
BLANK TEST	0.000	15:40
EXTERNAL STANDARD	0.080	15:40
BLANK TEST	0.000	15:41

BIB



LINEARITY CHECK

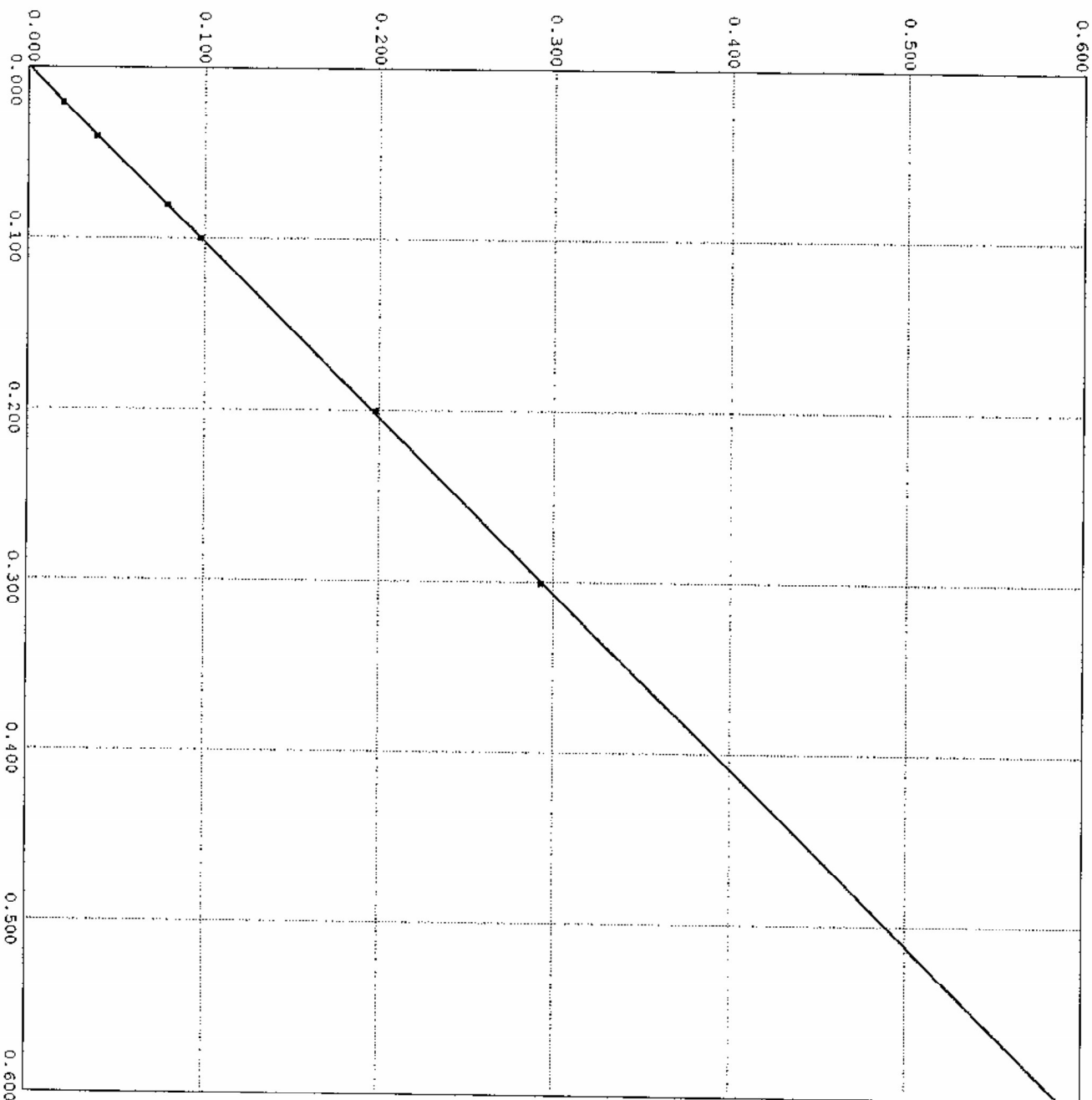
Alaska Department of Public Safety
 DATAMASTER dmt: 100673

Date: 05/27/2015
 Time: 10:25:33

SUPERVISOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.020	0.0206	0.0005
0.040	0.0400	0.0000
0.080	0.0800	0.0000
0.100	0.0984	0.0005
0.200	0.1988	0.0004
0.300	0.2936	0.0005

SLOPE = 0.978168
 R^2 = 0.999895



BBB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100673

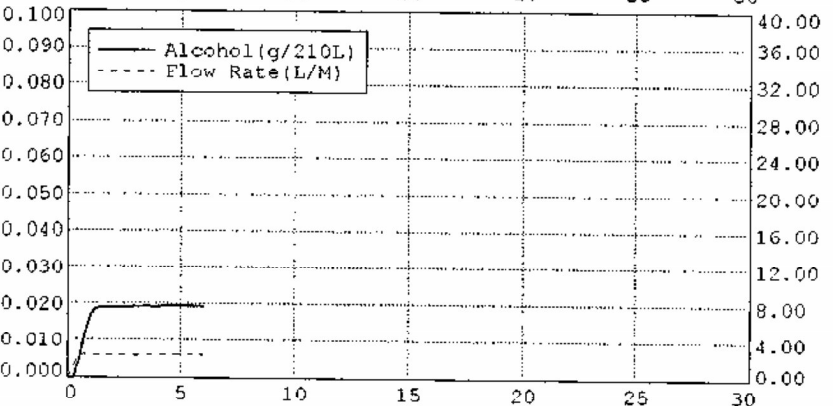
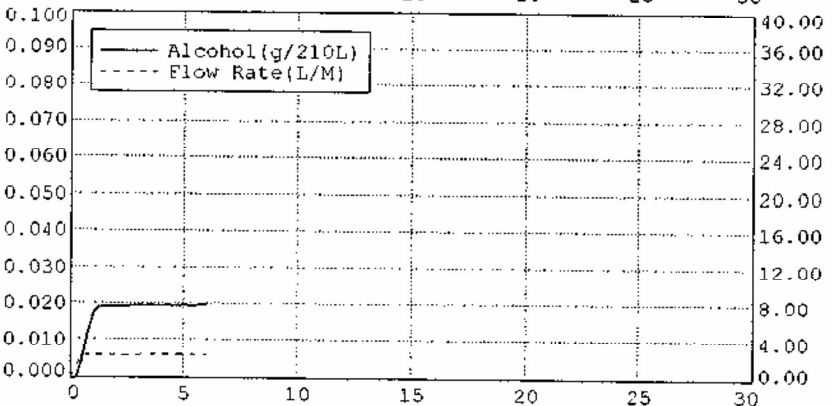
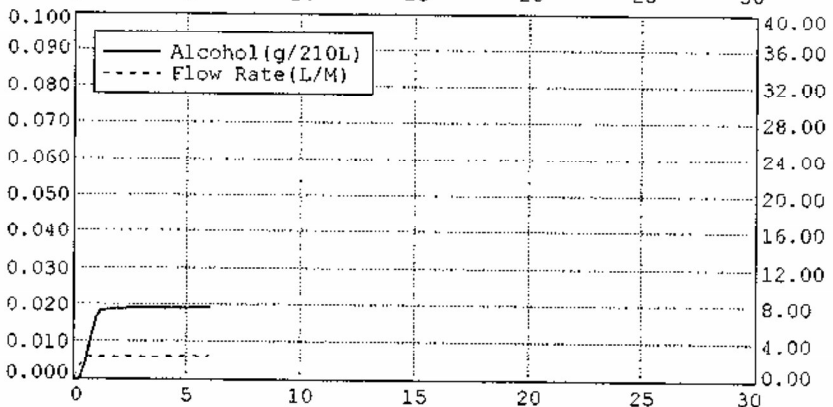
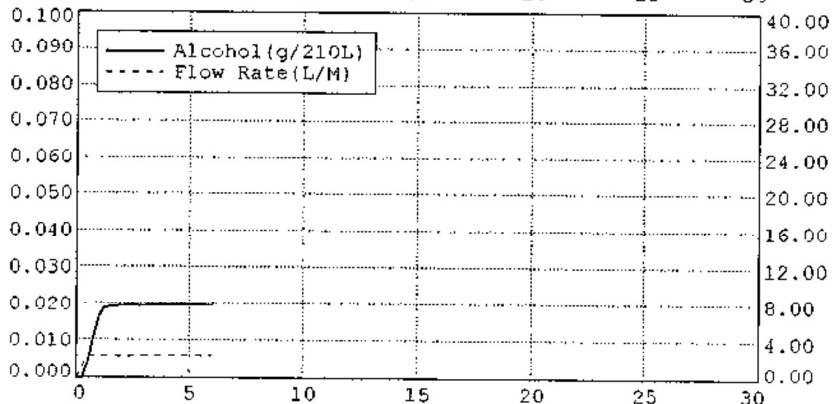
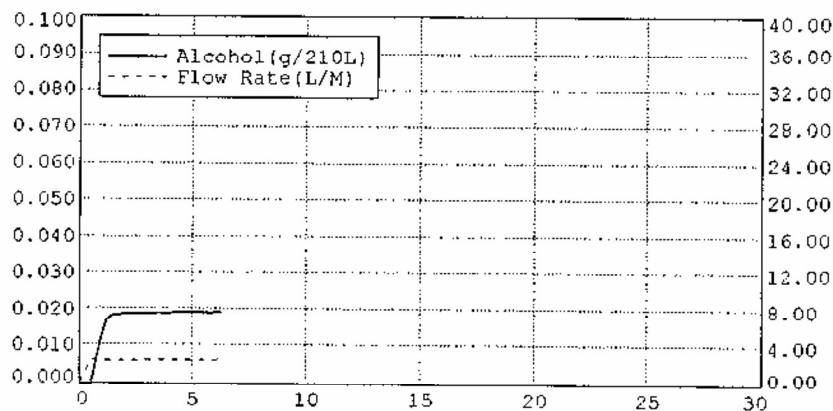
Date: 05/27/2015
Time: 10:25:34

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 30.06: 0.020
LOT #: 02915020A2
EXPIRATION: 03/05/2017
TANK PRESSURE: 832 psi

BLANK TEST	0.000	10:26
INTERNAL STANDARD	VERIFIED	10:26
EXTERNAL STANDARD	0.020	10:26
BLANK TEST	0.000	10:27
EXTERNAL STANDARD	0.021	10:28
BLANK TEST	0.000	10:28
EXTERNAL STANDARD	0.020	10:29
BLANK TEST	0.000	10:30
EXTERNAL STANDARD	0.021	10:30
BLANK TEST	0.000	10:31
EXTERNAL STANDARD	0.021	10:31
BLANK TEST	0.000	10:32

Average = 0.0206
Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100673

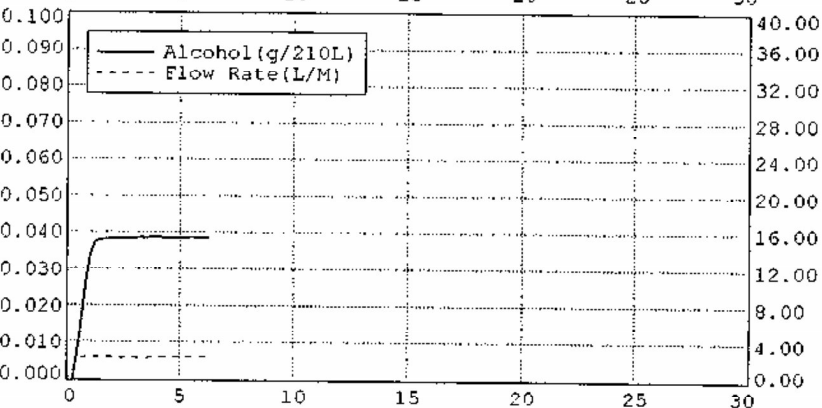
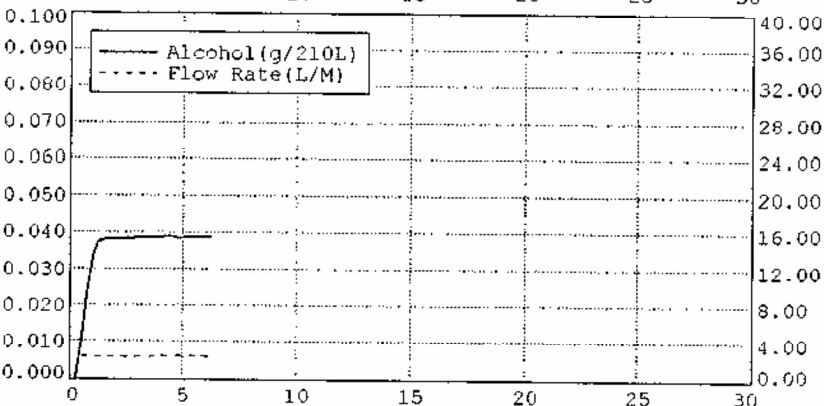
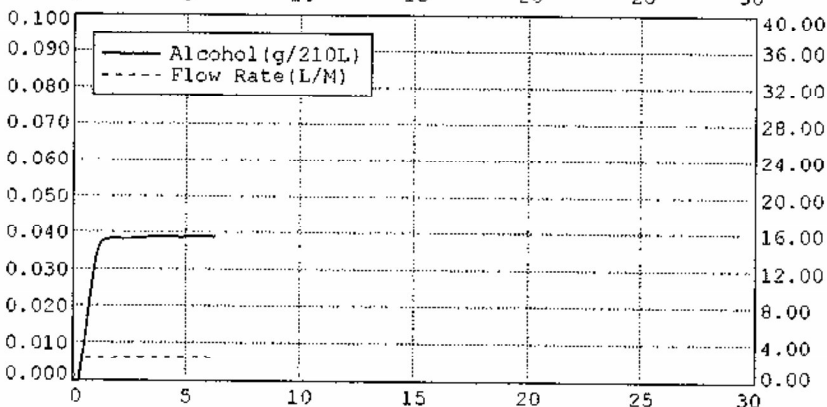
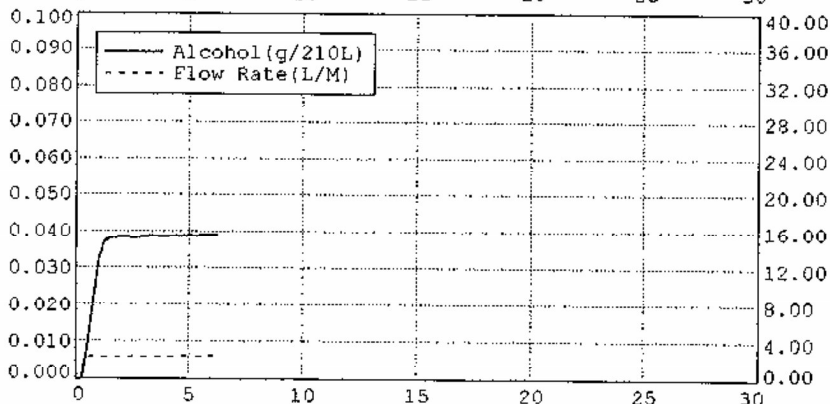
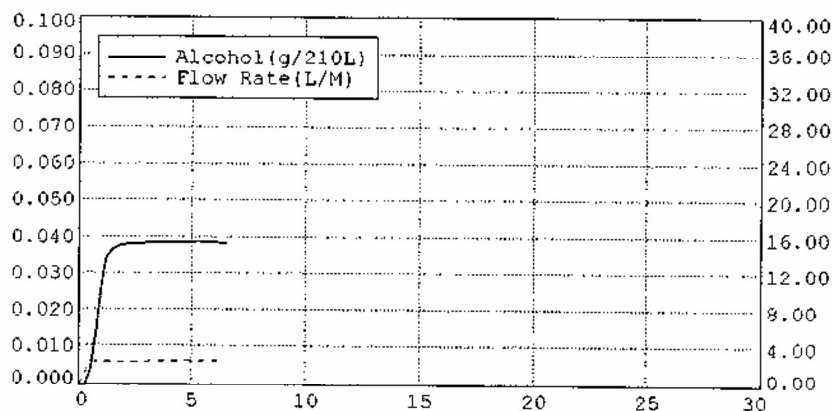
Date: 05/27/2015
Time: 10:48:58

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 30.06: 0.040
LOT #: 02915040A3
EXPIRATION: 03/05/2017
TANK PRESSURE: 890 psi

BLANK TEST	0.000	10:50
INTERNAL STANDARD	VERIFIED	10:50
EXTERNAL STANDARD	0.040	10:50
BLANK TEST	0.000	10:51
EXTERNAL STANDARD	0.040	10:51
BLANK TEST	0.000	10:52
EXTERNAL STANDARD	0.040	10:52
BLANK TEST	0.000	10:53
EXTERNAL STANDARD	0.040	10:53
BLANK TEST	0.000	10:54
EXTERNAL STANDARD	0.040	10:54
BLANK TEST	0.000	10:55

Average = 0.0400
Std Dev = 0.0000



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100673

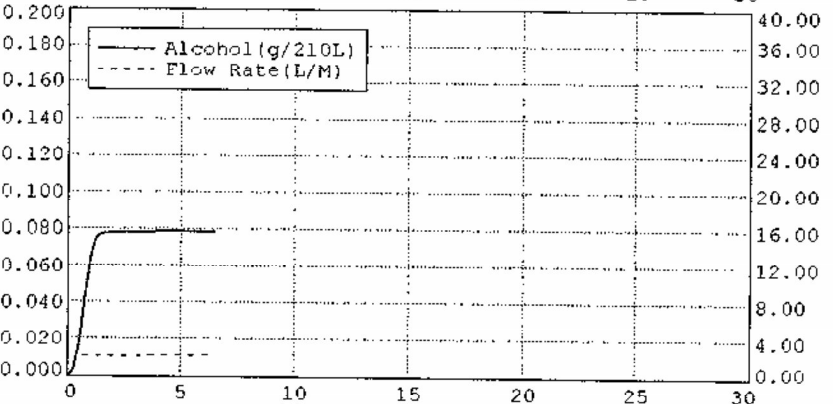
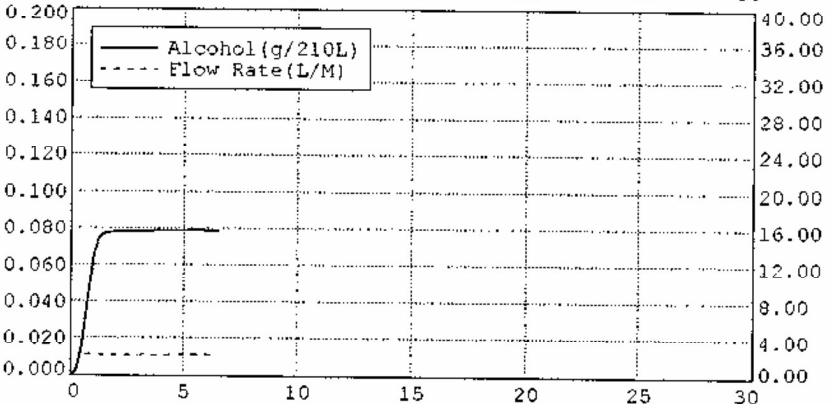
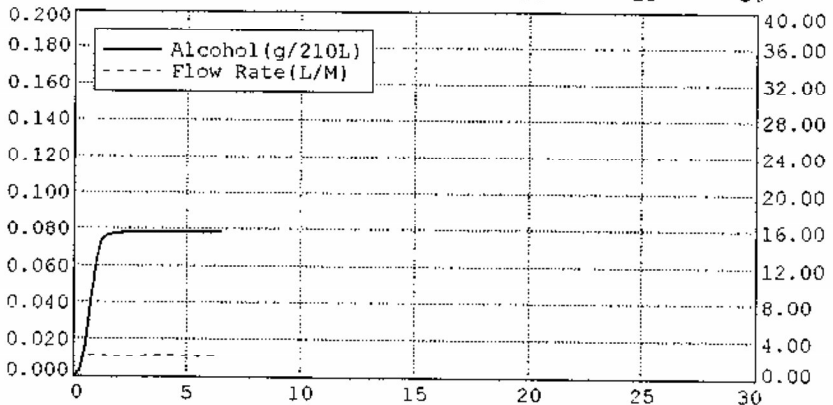
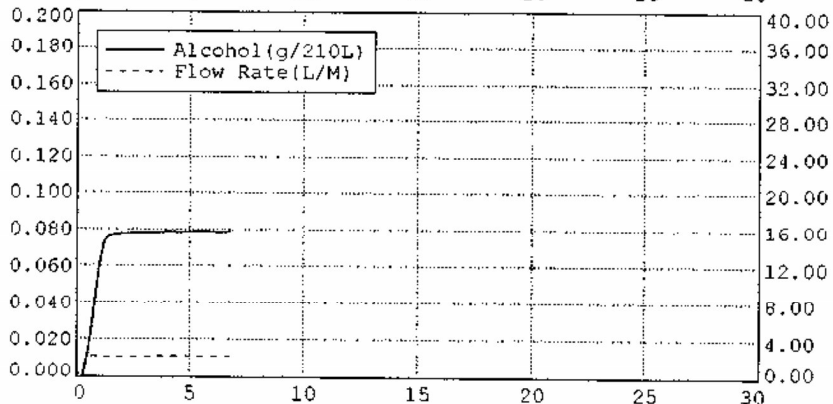
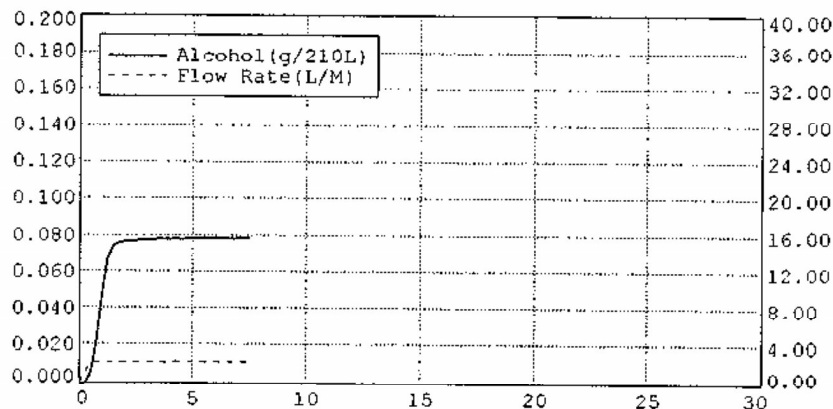
Date: 05/27/2015
Time: 11:02:36

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.05: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015
TANK PRESSURE: 348 psi

BLANK TEST	0.000	11:04
INTERNAL STANDARD	VERIFIED	11:04
EXTERNAL STANDARD	0.080	11:04
BLANK TEST	0.000	11:05
EXTERNAL STANDARD	0.080	11:06
BLANK TEST	0.000	11:06
EXTERNAL STANDARD	0.080	11:07
BLANK TEST	0.000	11:08
EXTERNAL STANDARD	0.080	11:08
BLANK TEST	0.000	11:09
EXTERNAL STANDARD	0.080	11:09
BLANK TEST	0.000	11:10

Average = 0.0800
Std Dev = 0.0000



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100673

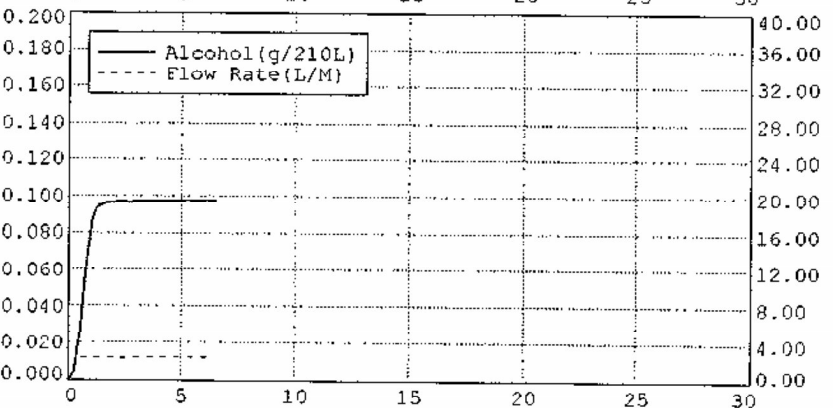
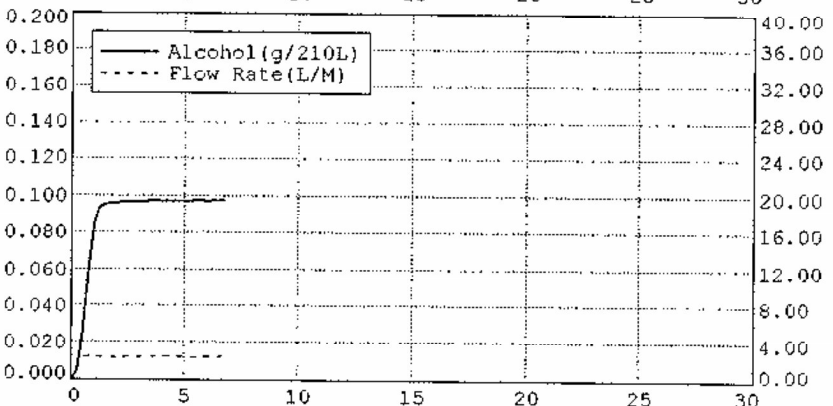
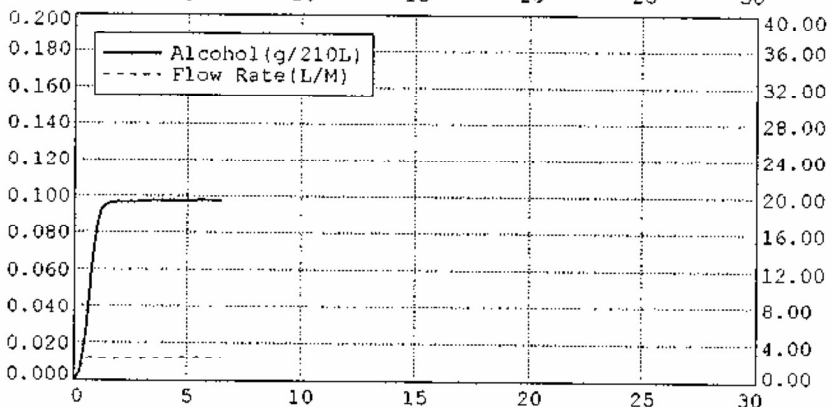
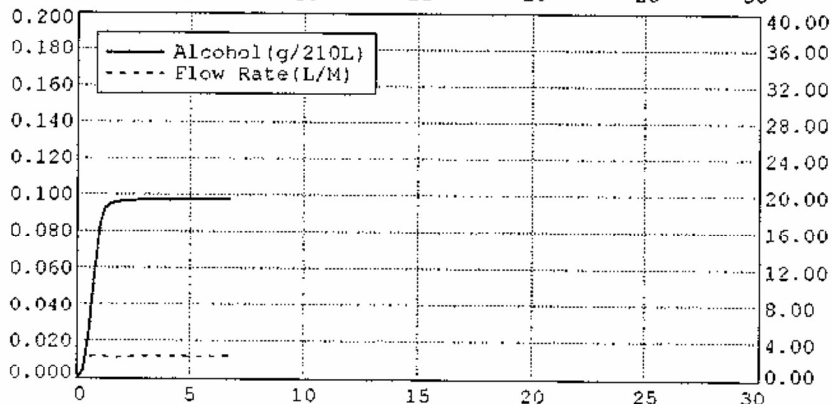
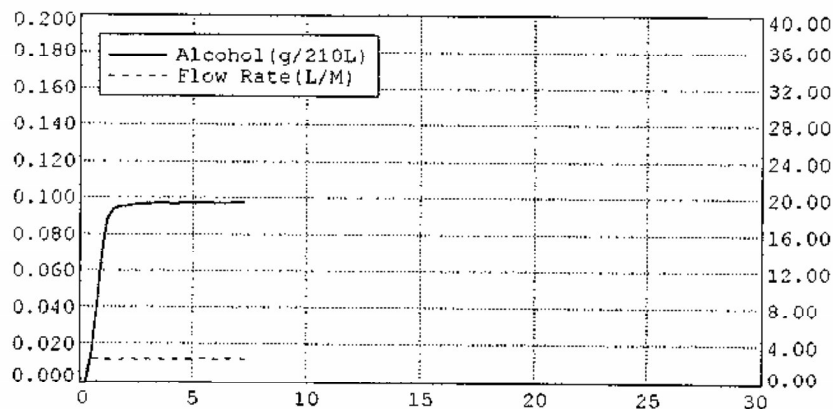
Date: 05/27/2015
Time: 11:18:08

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 30.05: 0.100
LOT #: 02915100A1
EXPIRATION: 03/05/2017
TANK PRESSURE: 831 psi

BLANK TEST	0.000	11:19
INTERNAL STANDARD	VERIFIED	11:19
EXTERNAL STANDARD	0.099	11:19
BLANK TEST	0.000	11:20
EXTERNAL STANDARD	0.098	11:21
BLANK TEST	0.000	11:21
EXTERNAL STANDARD	0.099	11:22
BLANK TEST	0.000	11:23
EXTERNAL STANDARD	0.098	11:23
BLANK TEST	0.000	11:24
EXTERNAL STANDARD	0.098	11:24
BLANK TEST	0.000	11:25

Average = 0.0984
Std Dev = 0.0005



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100673

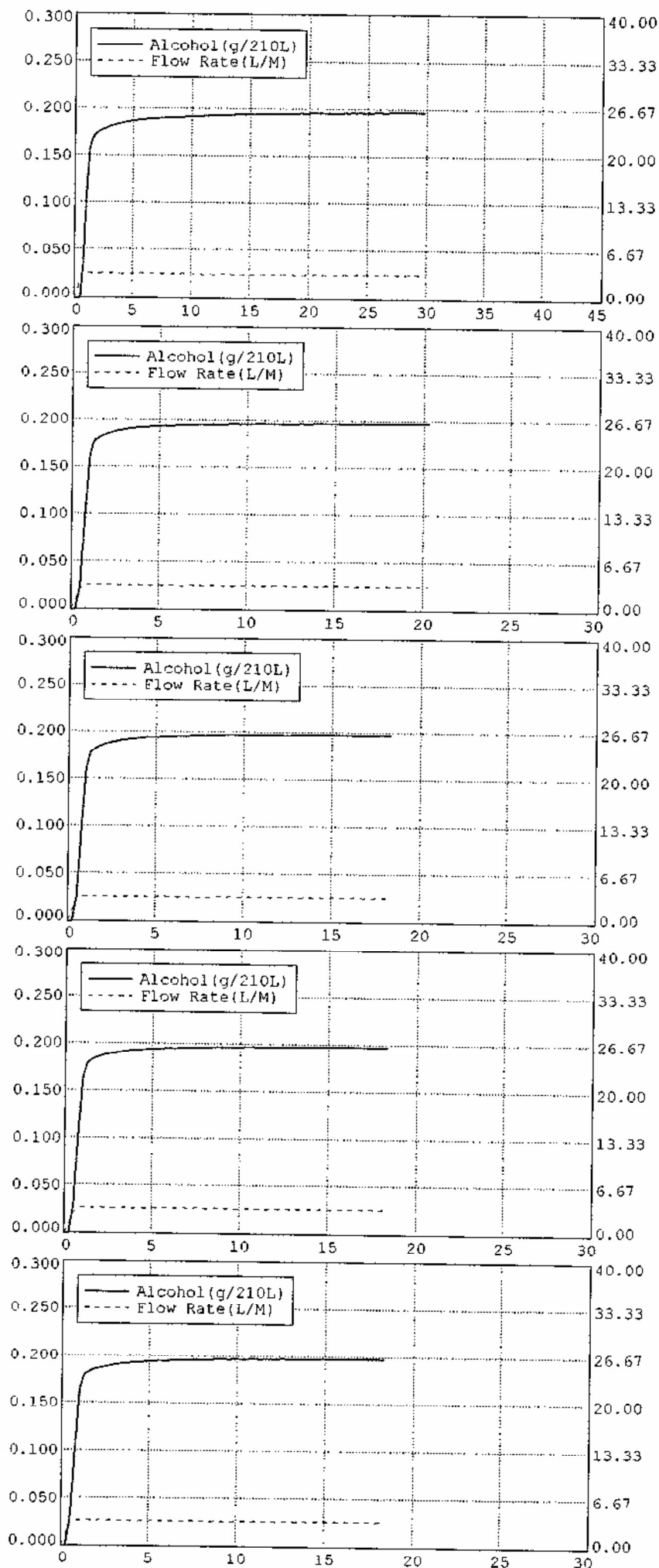
Date: 05/27/2015
Time: 12:07:10

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.200
LOT #: GUTH 13220
EXPIRATION: 08/05/2015

BLANK TEST	0.000	12:09
INTERNAL STANDARD	VERIFIED	12:09
EXTERNAL STANDARD	0.198	12:10
BLANK TEST	0.000	12:11
EXTERNAL STANDARD	0.199	12:11
BLANK TEST	0.000	12:12
EXTERNAL STANDARD	0.199	12:13
BLANK TEST	0.000	12:13
EXTERNAL STANDARD	0.199	12:14
BLANK TEST	0.000	12:15
EXTERNAL STANDARD	0.199	12:15
BLANK TEST	0.000	12:16

Average = 0.1988
Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100673

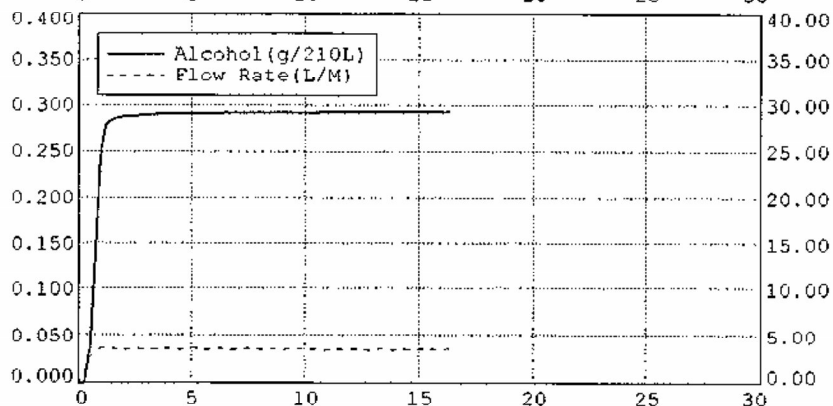
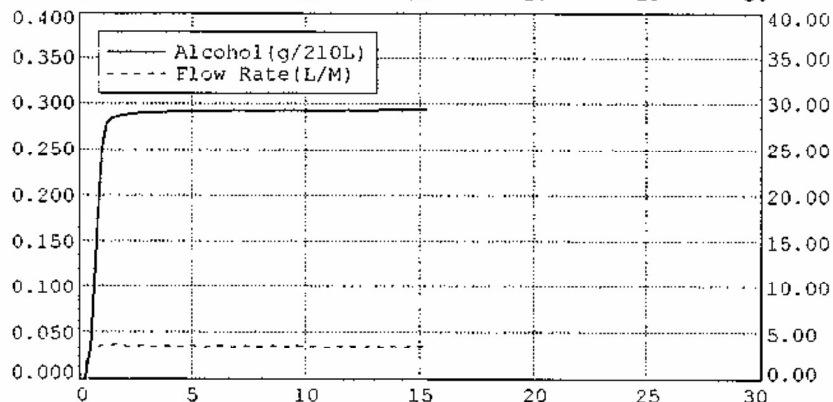
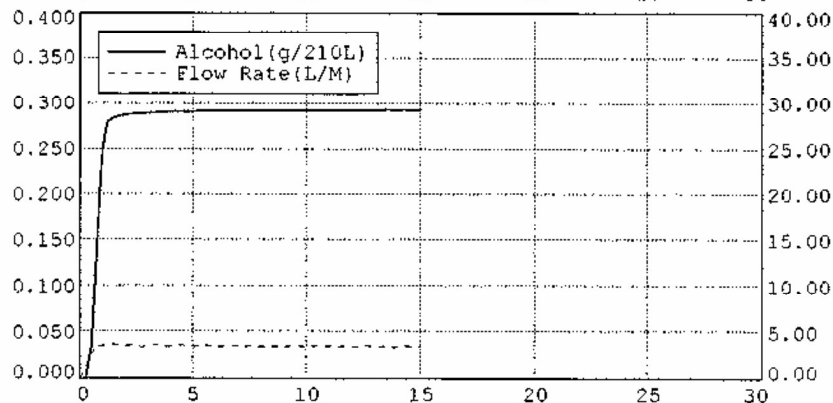
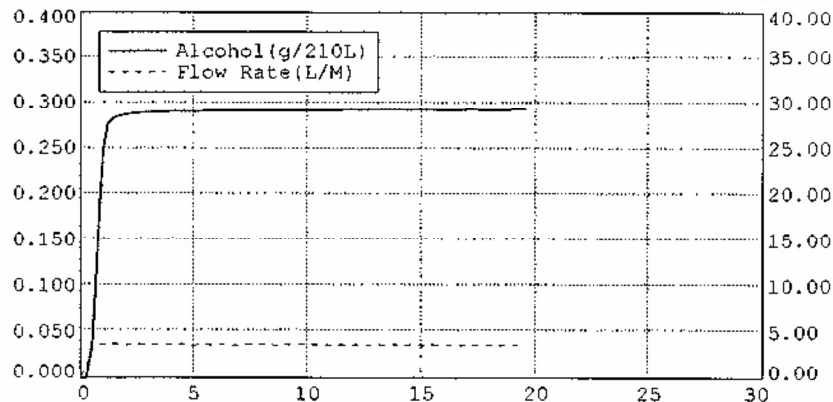
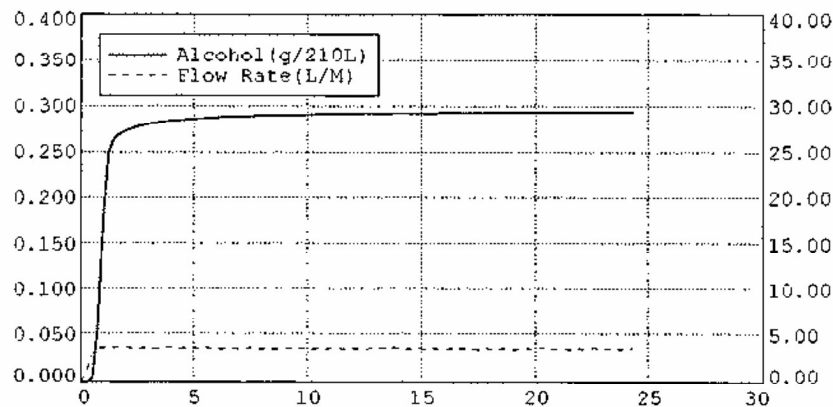
Date: 05/27/2015
Time: 12:21:57

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
LOT #: GUTH 14270
EXPIRATION: 12/02/2016

BLANK TEST	0.000	12:23
INTERNAL STANDARD	VERIFIED	12:23
EXTERNAL STANDARD	0.294	12:23
BLANK TEST	0.000	12:24
EXTERNAL STANDARD	0.293	12:25
BLANK TEST	0.000	12:25
EXTERNAL STANDARD	0.293	12:26
BLANK TEST	0.000	12:27
EXTERNAL STANDARD	0.294	12:27
BLANK TEST	0.000	12:28
EXTERNAL STANDARD	0.294	12:28
BLANK TEST	0.000	12:29

Average = 0.2936
Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100673

Date: 05/26/2015
 Time: 15:43:17

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

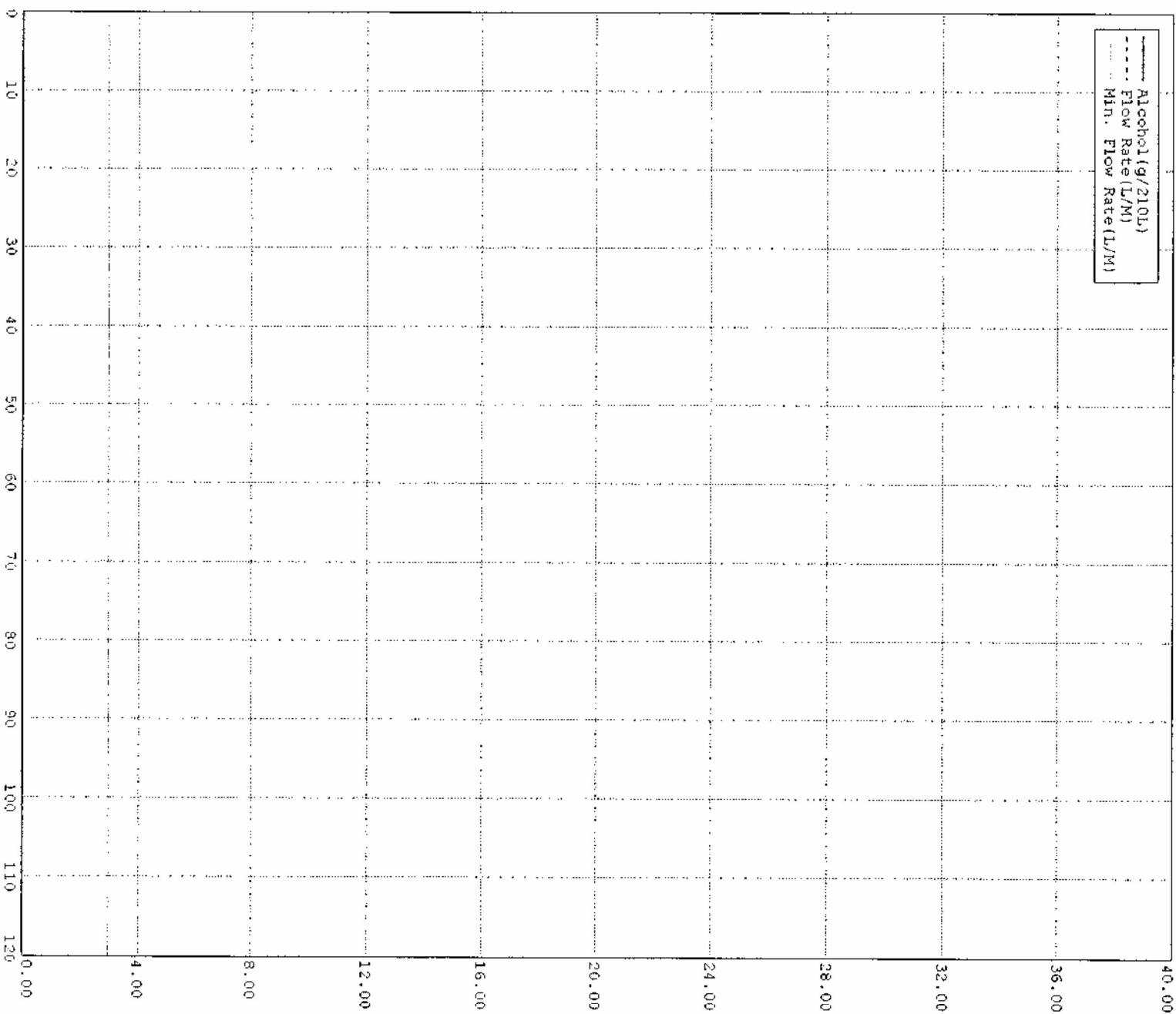
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 INCOMPLETE
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.93: 0.080
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	15:44
BLANK TEST	0.000	15:44
INTERNAL STANDARD	VERIFIED	15:44
EXTERNAL STANDARD	0.080	15:44
BLANK TEST	0.000	15:45
SUBJECT SAMPLE	INCOMPLETE	15:47

Brandi Barnett



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dnt: 100673

Date: 05/26/2015
 Time: 15:51:31

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

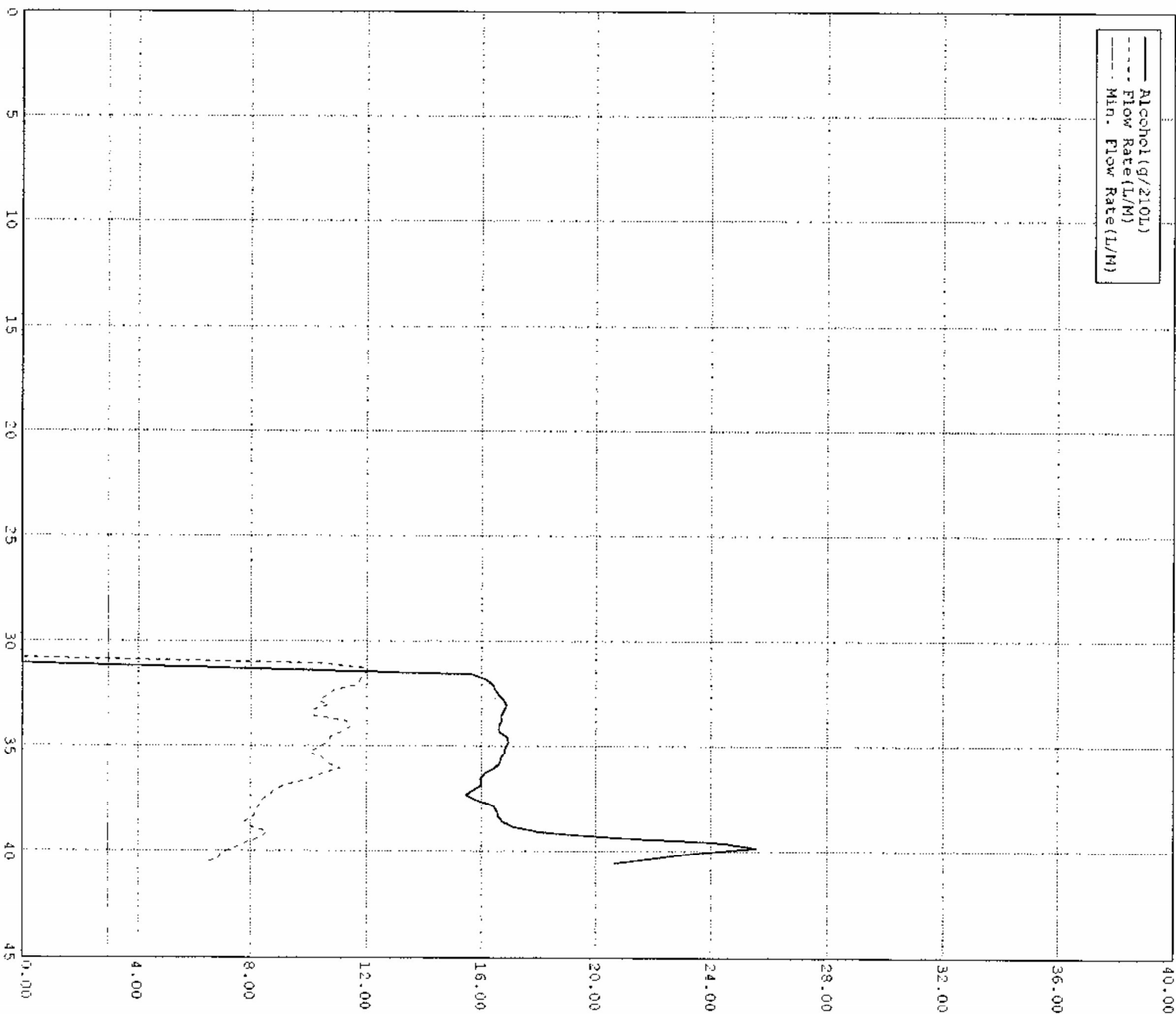
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 INVALID
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.93: 0.080
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	15:53
BLANK TEST	0.000	15:53
INTERNAL STANDARD	VERIFIED	15:53
EXTERNAL STANDARD	0.079	15:53
BLANK TEST	0.000	15:54
SUBJECT SAMPLE	INVALID	15:55

Alcohol (g/210L)
 Flow Rate (L/M)
 Min. Flow Rate (L/M)



Brandi Barnett

SUBJECT TEST

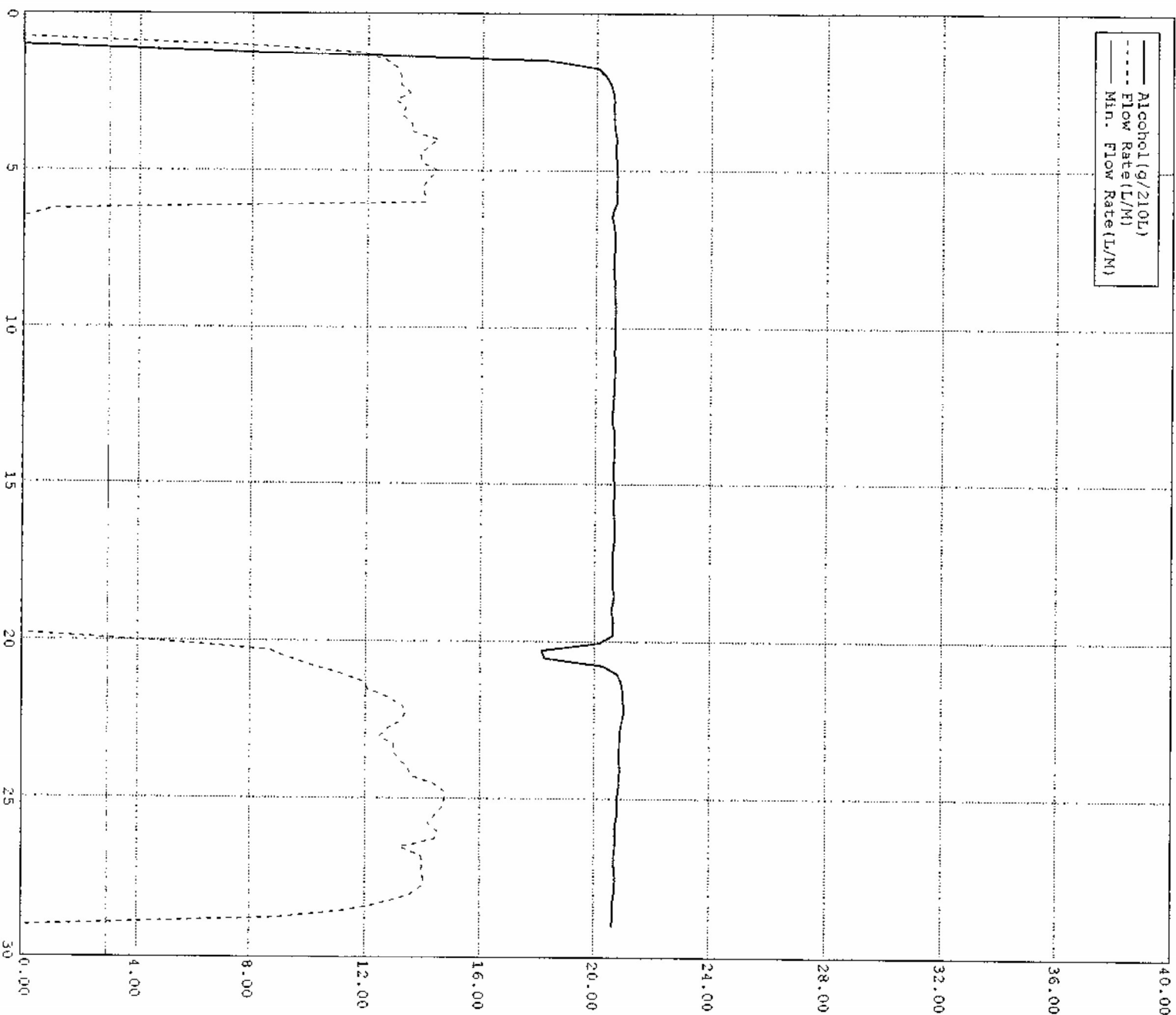
Alaska Department of Public Safety
DATAMASTER dmt: 100673Date: 05/27/2015
Time: 12:38:48SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038DEPT/AGENCY:
INTERFERE ACETONE
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.02: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	
BLANK TEST	PASSED 12:39
INTERNAL STANDARD	0.000 12:40
Xq = 0.075 (0.58%)	VERIFIED 12:40
EXTERNAL STANDARD	0.079 12:40
X[1] = 0.0795 (-0.0012)	(0.0027)
BLANK TEST	0.000 12:41
SUBJECT SAMPLE	XXX 12:41
X[1] = 0.1037 (-0.0153)	(0.0018)

Interference Detected

Filter 2 Avg = -0.0013 BmB
Filter 3 Avg = -0.0027 BmB
BmB 5/28/15

BmB



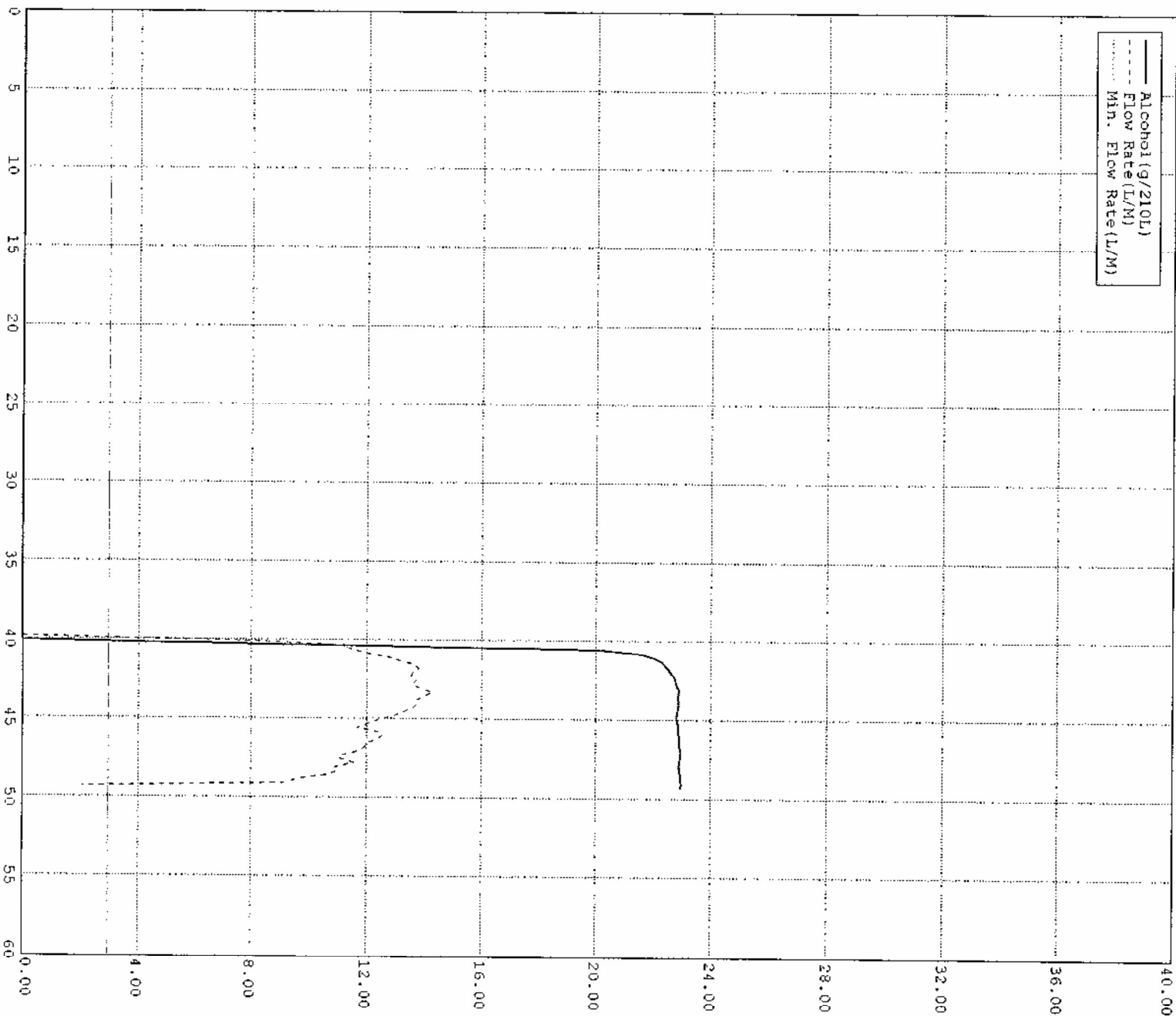
SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100673Date: 05/27/2015
Time: 12:45:19SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038DEPT/AGENCY:
INTERFERE ISOPROPYL
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.03: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	12:46
BLANK TEST	0.000	12:46
INTERNAL STANDARD	VERIFIED	12:46
Xq = 0.075 (0.58%)		
EXTERNAL STANDARD	0.079	12:46
X[1] = 0.0792 (-0.0016)	(0.0026)	
BLANK TEST	0.000	12:47
SUBJECT SAMPLE	XXX	12:48
X[1] = 0.1149 (-0.0263)	(0.0016)	

Interference Detected

BMB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100673

Date: 05/27/2015
 Time: 12:54:49

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

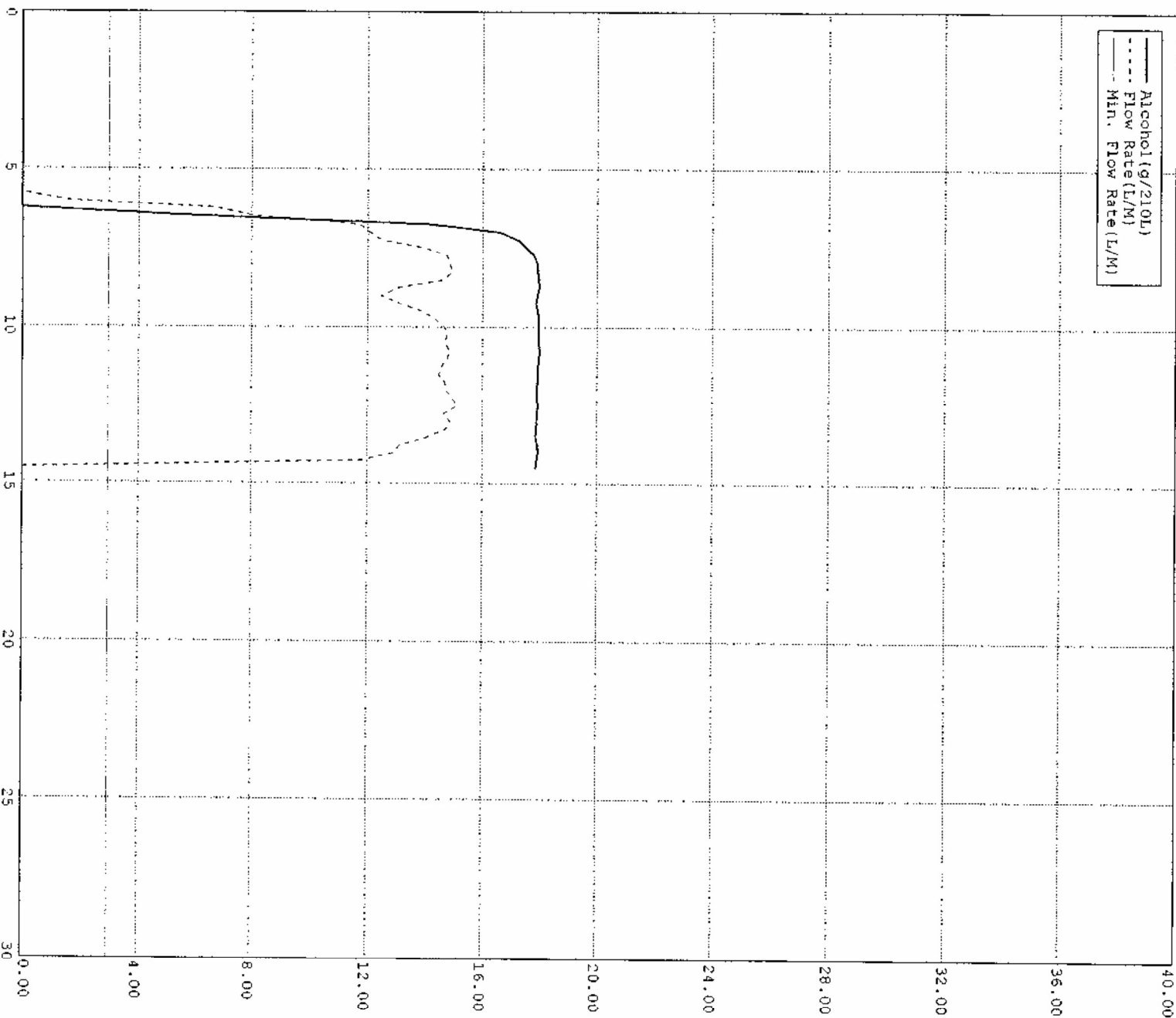
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 INTERFERE NEGATIVE CONTROL
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 30.02: 0.080
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	12:56
BLANK TEST	0.000	12:56
INTERNAL STANDARD	VERIFIED	12:56
Xq = 0.075 (0.58%)		
EXTERNAL STANDARD	0.079	12:56
X[1] = 0.0795 (-0.0011)	(0.0030)	
BLANK TEST	0.000	12:57
SUBJECT SAMPLE (Vol=1.88L)	0.089	12:58
X[1] = 0.0898 (0.0001)	(0.0013)	
BLANK TEST	0.000	12:59
EXTERNAL STANDARD	0.079	12:59
X[1] = 0.0794 (-0.0012)	(0.0024)	
BLANK TEST	0.000	13:00

BM



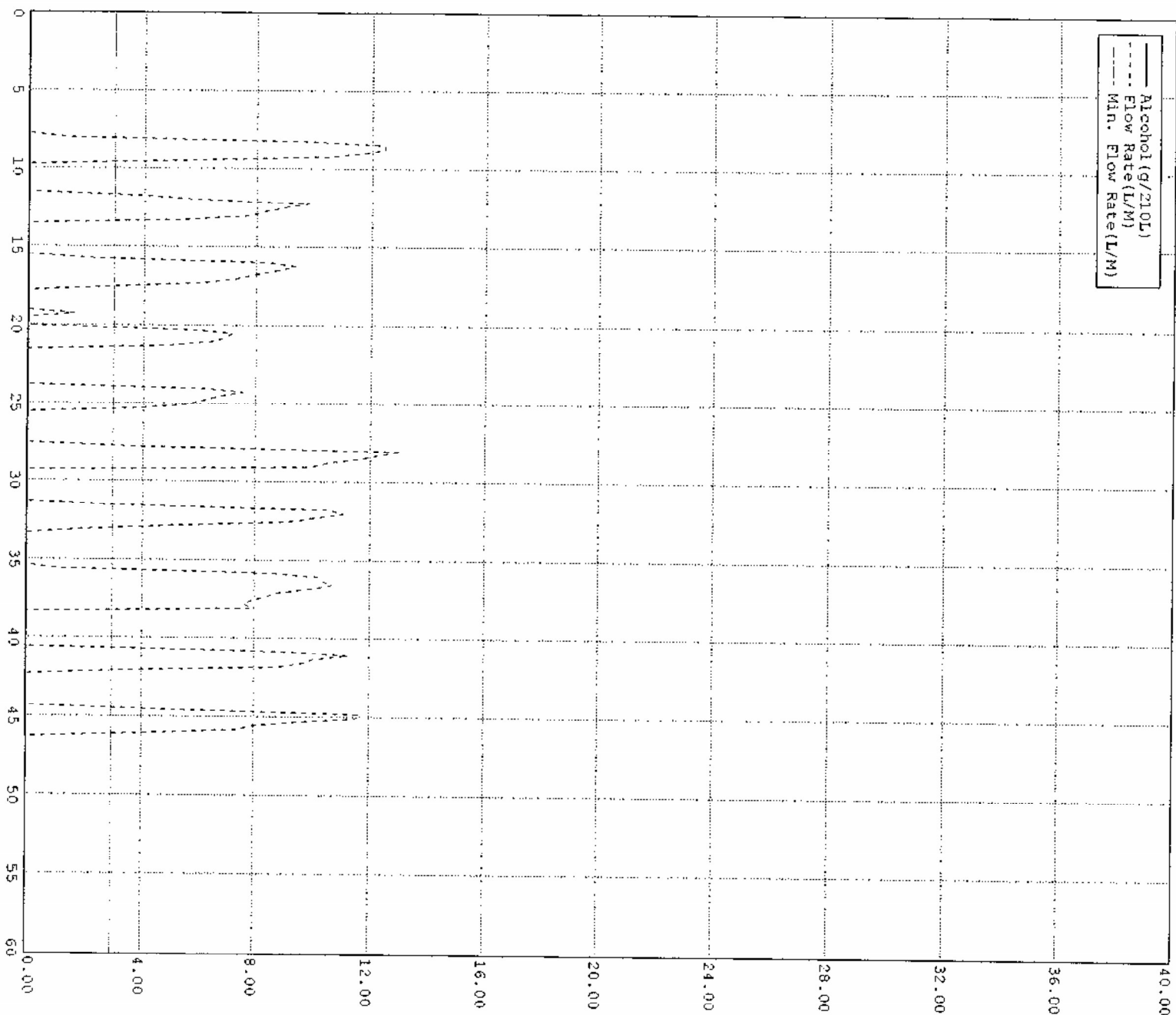
SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dnt: 100673Date: 05/26/2015
Time: 16:08:22SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038DEPT/AGENCY:
MAXIMUM ATTEMPTS
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.93: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	16:09
BLANK TEST	0.000	16:09
INTERNAL STANDARD	VERIFIED	16:09
EXTERNAL STANDARD	0.079	16:10
BLANK TEST	0.000	16:10
SUBJECT SAMPLE	XXX	16:11

Maximum Attempts Exceeded

BMB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100673

Date: 05/26/2015
 Time: 15:57:29

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

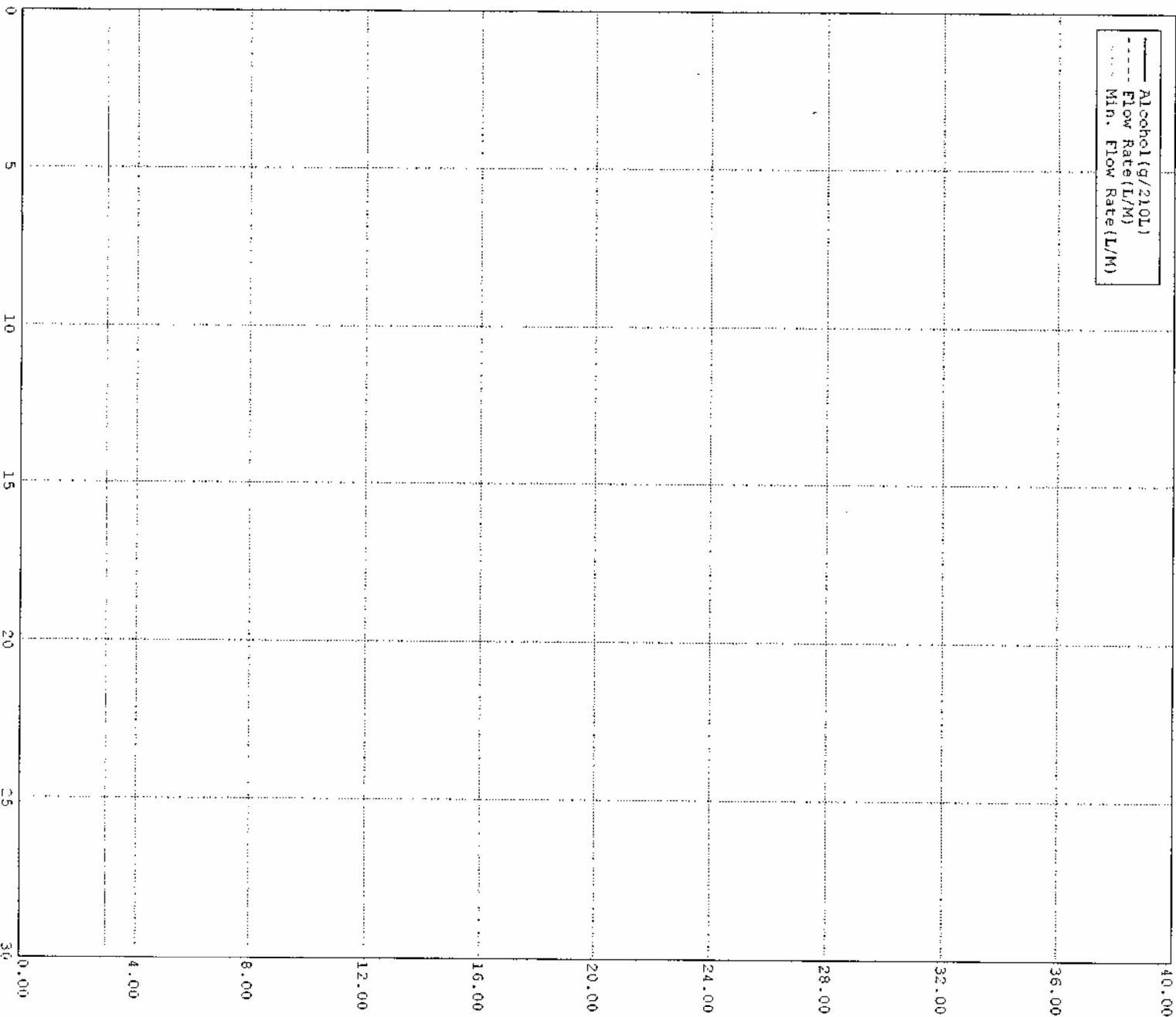
DEPT/AGENCY:
 RFI
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.93: 0.080
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK
 BLANK TEST PASSED 15:59
 INTERNAL STANDARD 0.000 15:59
 EXTERNAL STANDARD VERIFIED 15:59
 BLANK TEST 0.080 15:59
 0.000 16:00

RFI DETECTED

BNB



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100673Date: 05/27/2015
Time: 13:17:15SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038DEPT/AGENCY:
NON DRINKING SUBJECT TEST
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.02: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	13:18
BLANK TEST	0.000	13:18
INTERNAL STANDARD	VERIFIED	13:18
EXTERNAL STANDARD	0.080	13:18
BLANK TEST	0.000	13:19
SUBJECT SAMPLE (Vol=1.69L)	0.000	13:19
BLANK TEST	0.000	13:20
EXTERNAL STANDARD	0.080	13:21
BLANK TEST	0.000	13:21

