

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 100386 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)
 - iv. Chopper Frequency
 - v. Detector Voltage (-0.100V to 0.100V)
 - 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) gmb 5/8/15
4. Volume Test - Minimum 1.5 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 SD1200 Date Calibrated 1/20/15
 - vi. 0.300g/210L Mnf Guth Lot 14270 Exp 12/2/16
 1. Simulator S/N DR6267 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 1/19/15
- 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 14030 Level 0.100 Exp 1/20/16
 1. Simulator S/N DR4178 Date Calibrated 1/19/15

e. 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: 100386

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

VERSIONS

DMT: 3.01
PIC: 3.02
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
Breath Tube = 45.5°C	PASSED

PUMP INFO

Flow Rate = 4.180 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: 100386

Date: 05/26/2015

Time: 10:22 AM

Temperatures (°C)

Sample Cell: 48.9°C

Breath Tube: 46.1°C

Current Barometer 29.9 in

Volume (Ltr) 1.51

Settings

Lamp: 1.69 V

Bias: 79 V

Cooler: 1.66 V

Chopper: 527 Hz

Voltages (V)

Flow: 1.06 V

Detector: 0.003 V

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100386

Date: 05/01/2015
Time: 11:38:05

OPERATOR NAME:
CHARLES FOSTER
CERTIFICATE #: 7734

Ca	=	0.1000		
CAL	=	0.966252	0.800	<= CAL < 1.200
b1	=	0.0008	0.0000	<= b1 < 0.0040
b2	=	0.0057	0.0010	<= b2 < 0.0100
b3	=	0.0006	0.0000	<= b3 < 0.0040
Xq	=	0.0918	0.0500	<= Xq < 0.2000
a21	=	1.179077	1.050	<= a21 < 1.300
a31	=	0.553536	0.300	<= a31 < 0.800

SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100386

Date: 05/26/2015
Time: 15:33:05

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

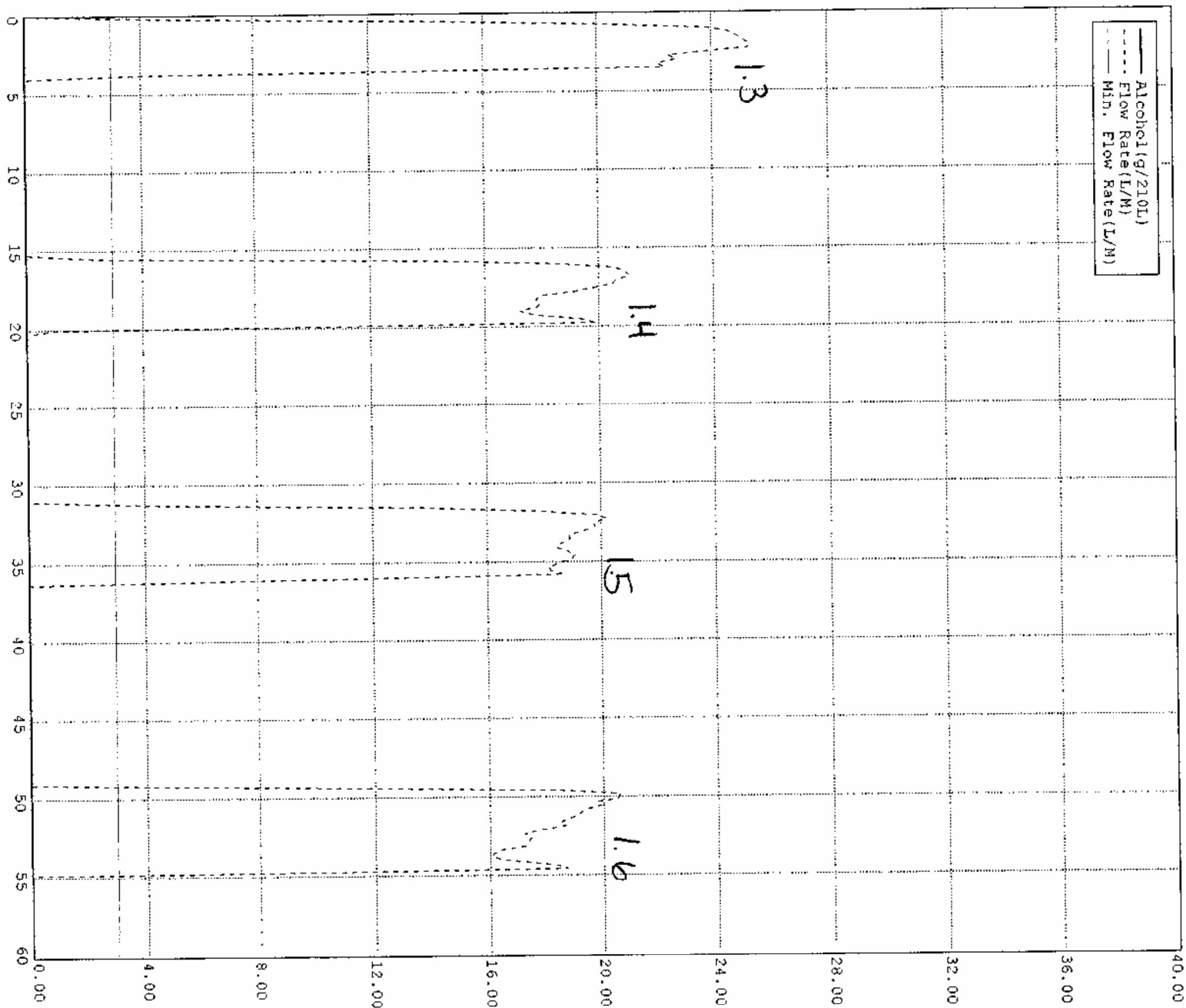
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL 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=1.64L)	0.000	15:38
BLANK TEST	0.000	15:39
EXTERNAL STANDARD	0.079	15:40
BLANK TEST	0.000	15:41

Brandi Barnett



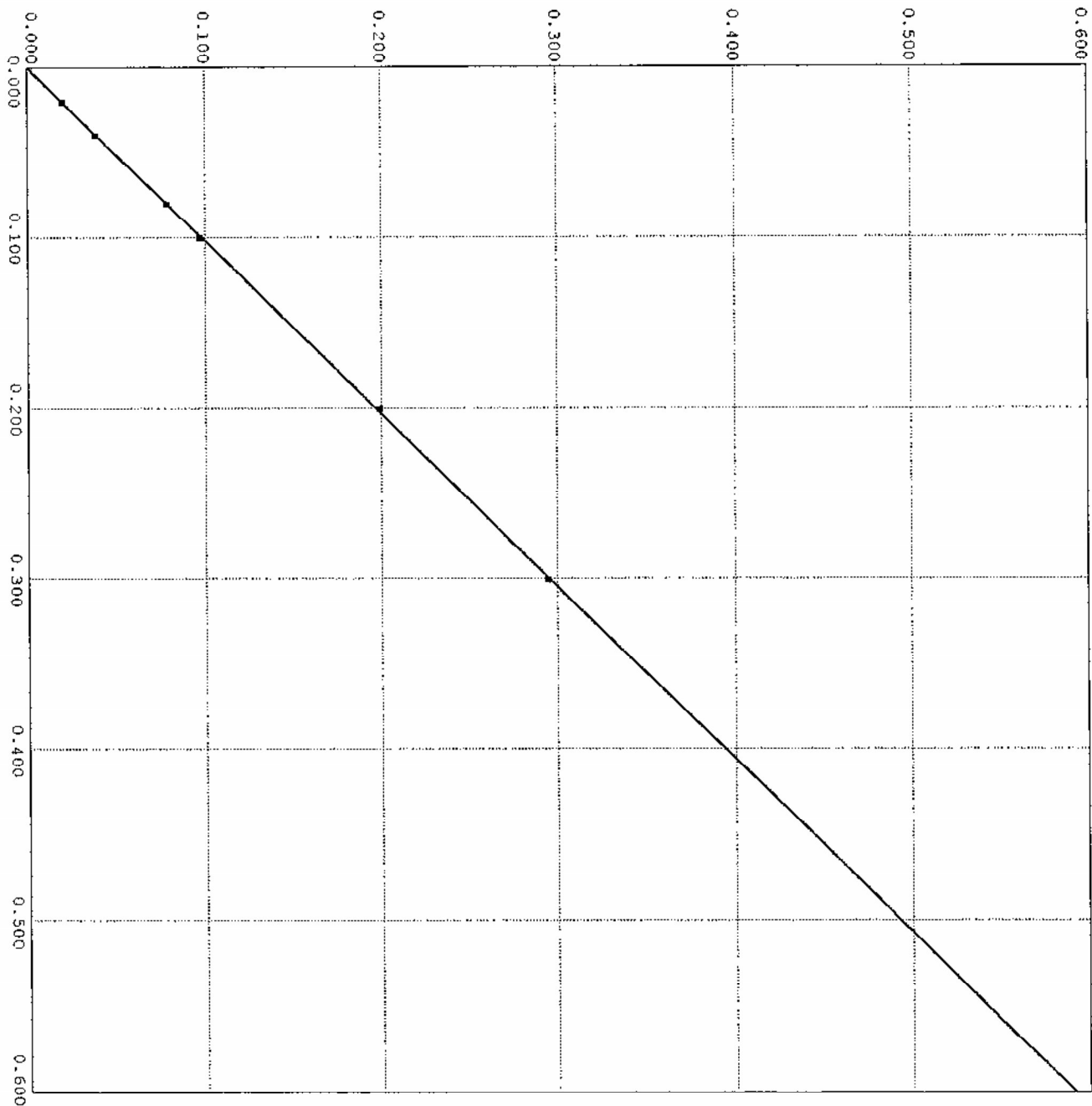
LINEARITY CHECK

Alaska Department of Public Safety
 DATAMASTER dmt: 100386

Date: 05/27/2015
 Time: 10:11:43

SUPERVISOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.020	0.0204	0.0005
0.040	0.0396	0.0005
0.080	0.0796	0.0005
0.100	0.0982	0.0004
0.200	0.2000	0.0000
0.300	0.2954	0.0005
SLOPE	= 0.986674	
R ²	= 0.999874	



BrnB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100386

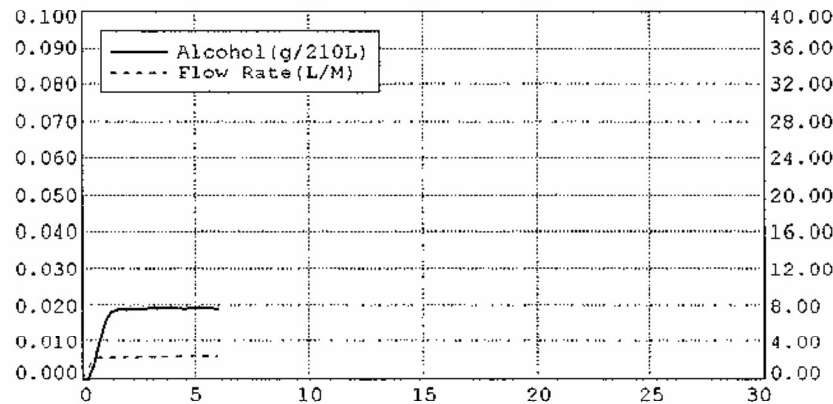
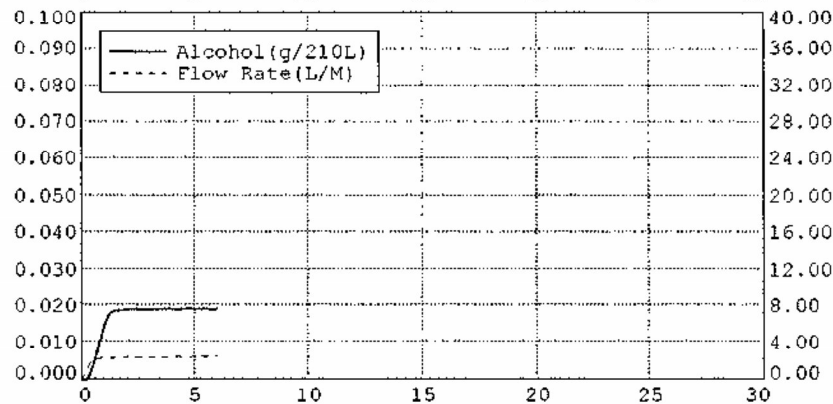
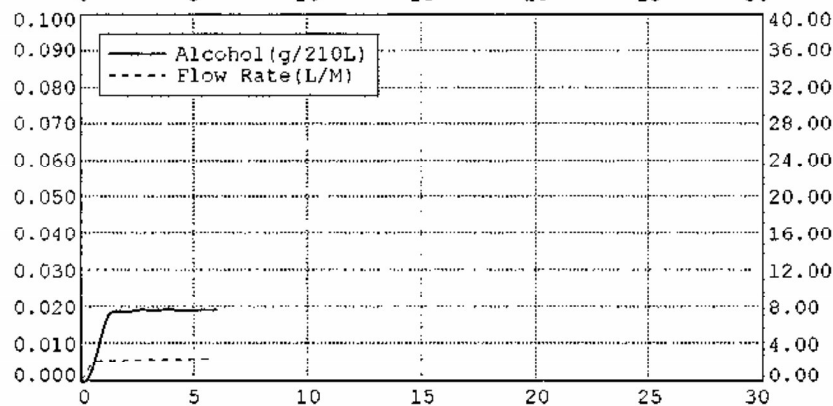
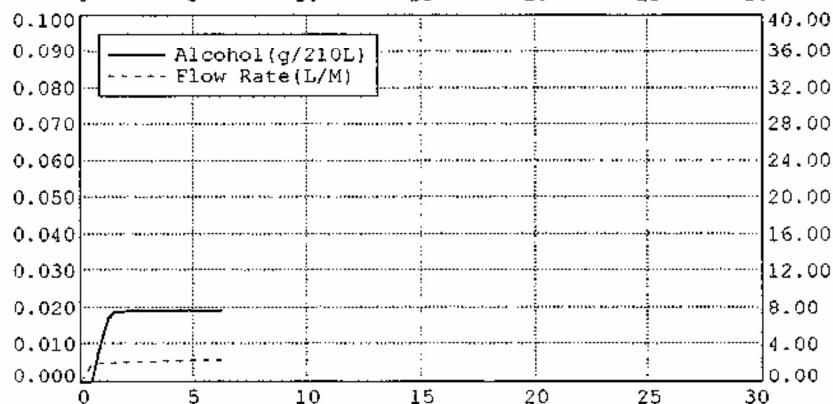
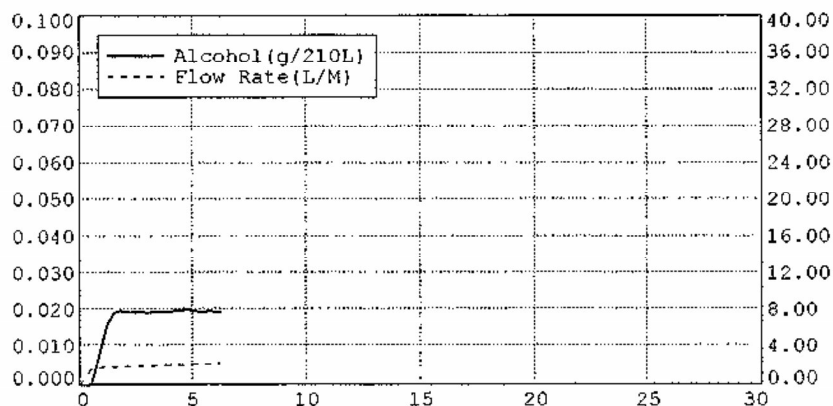
Date: 05/27/2015
Time: 10:11:44

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 30.03: 0.020
LOT #: 02915020A2
EXPIRATION: 03/05/2017
TANK PRESSURE: 848 psi

BLANK TEST	0.000	10:13
INTERNAL STANDARD	VERIFIED	10:13
EXTERNAL STANDARD	0.021	10:13
BLANK TEST	0.000	10:14
EXTERNAL STANDARD	0.020	10:14
BLANK TEST	0.000	10:15
EXTERNAL STANDARD	0.020	10:15
BLANK TEST	0.000	10:16
EXTERNAL STANDARD	0.020	10:16
BLANK TEST	0.000	10:17
EXTERNAL STANDARD	0.021	10:18
BLANK TEST	0.000	10:18

Average = 0.0204
Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100386

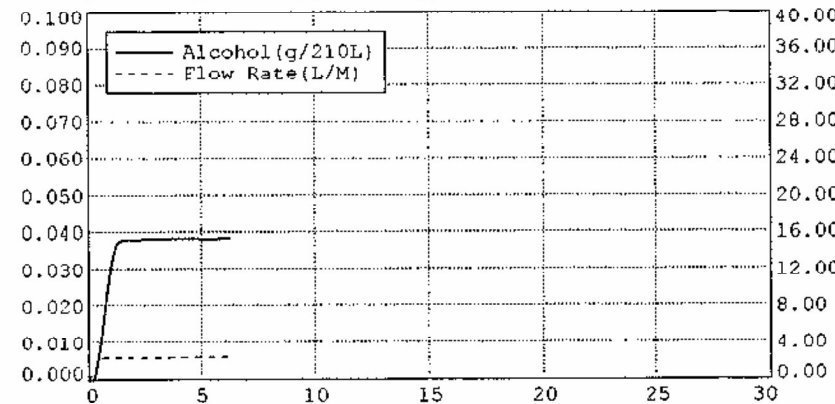
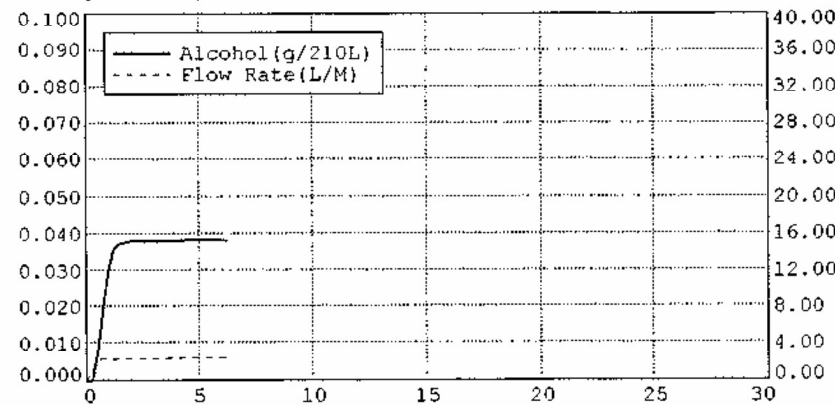
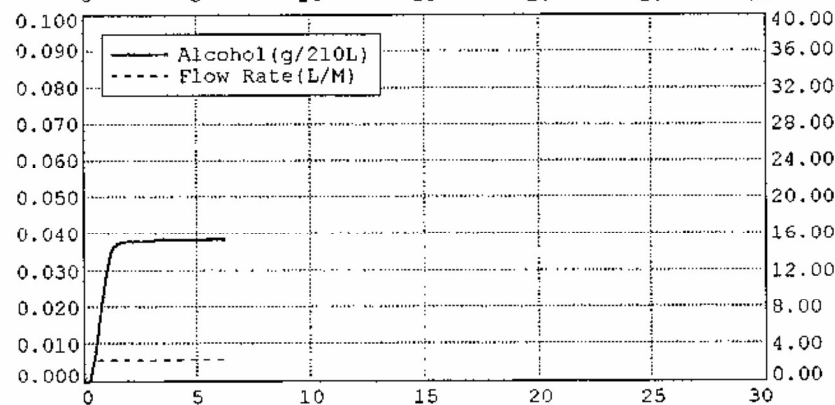
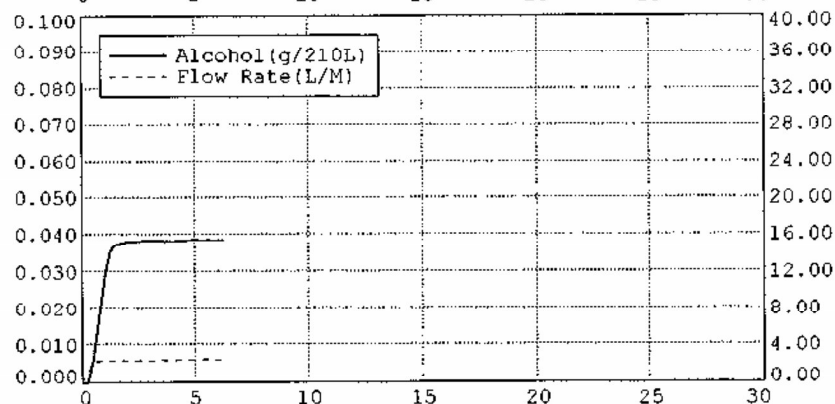
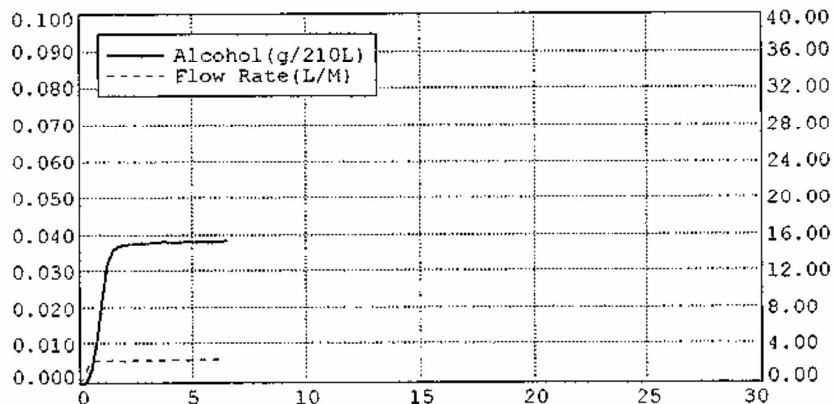
Date: 05/27/2015
Time: 10:27:28

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 30.02: 0.040
LOT #: 02915040A3
EXPIRATION: 03/05/2017
TANK PRESSURE: 904 psi

BLANK TEST	0.000	10:28
INTERNAL STANDARD	VERIFIED	10:28
EXTERNAL STANDARD	0.039	10:28
BLANK TEST	0.000	10:29
EXTERNAL STANDARD	0.040	10:30
BLANK TEST	0.000	10:30
EXTERNAL STANDARD	0.040	10:31
BLANK TEST	0.000	10:32
EXTERNAL STANDARD	0.039	10:32
BLANK TEST	0.000	10:33
EXTERNAL STANDARD	0.040	10:33
BLANK TEST	0.000	10:34

Average = 0.0396
Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100386

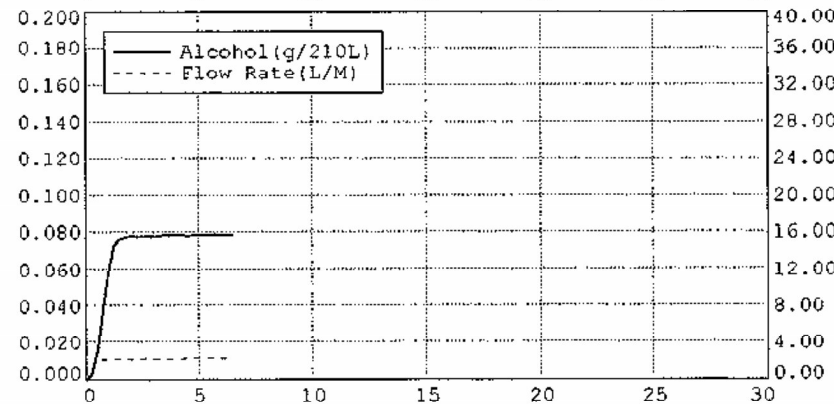
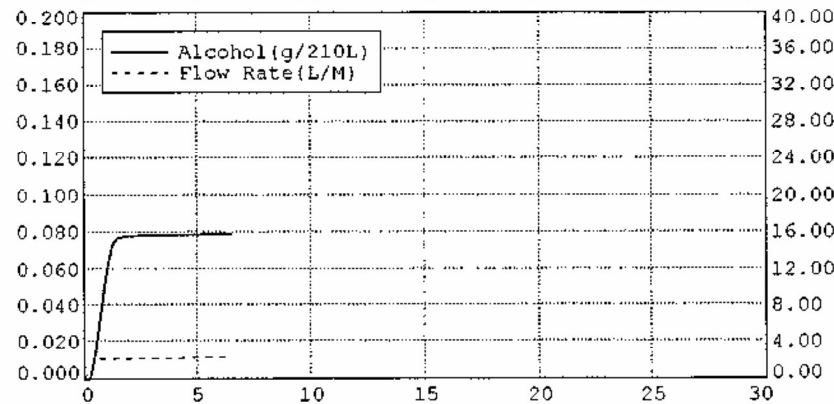
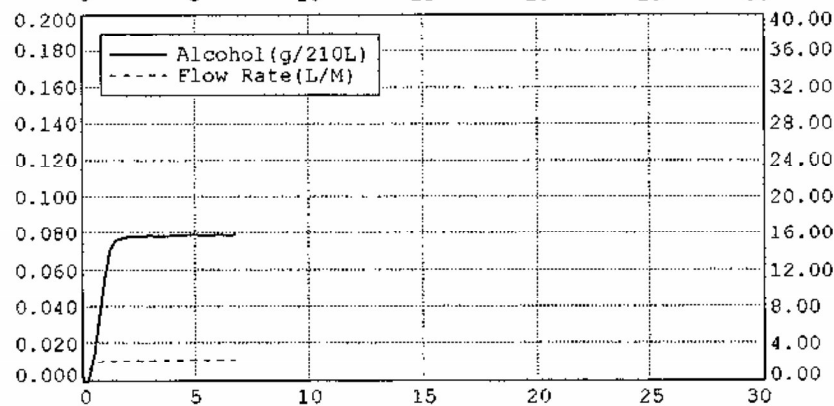
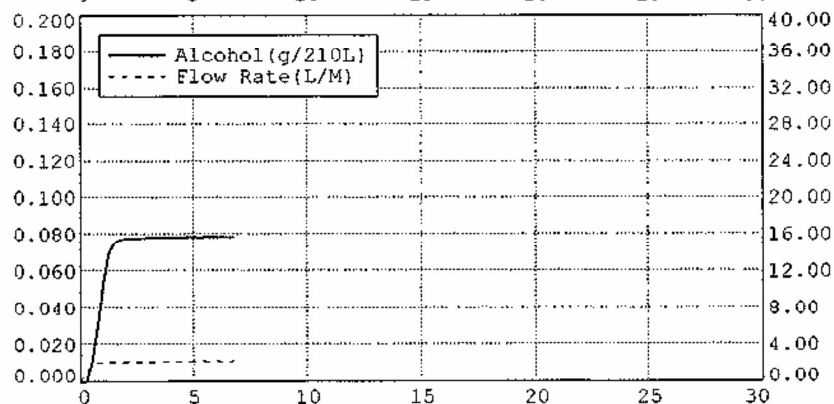
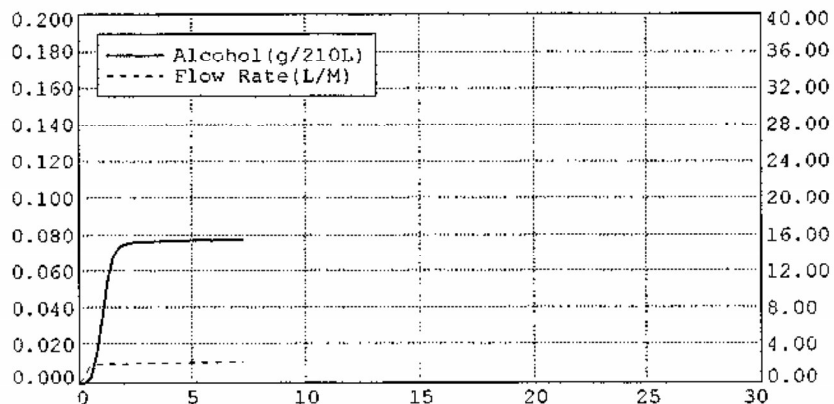
Date: 05/27/2015
Time: 10:50:36

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 30.02: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015
TANK PRESSURE: 594 psi

BLANK TEST	0.000	10:51
INTERNAL STANDARD	VERIFIED	10:51
EXTERNAL STANDARD	0.079	10:51
BLANK TEST	0.000	10:52
EXTERNAL STANDARD	0.079	10:53
BLANK TEST	0.000	10:54
EXTERNAL STANDARD	0.080	10:54
BLANK TEST	0.000	10:55
EXTERNAL STANDARD	0.080	10:55
BLANK TEST	0.000	10:56
EXTERNAL STANDARD	0.080	10:56
BLANK TEST	0.000	10:57

Average = 0.0796
Std Dev = 0.0005



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100386

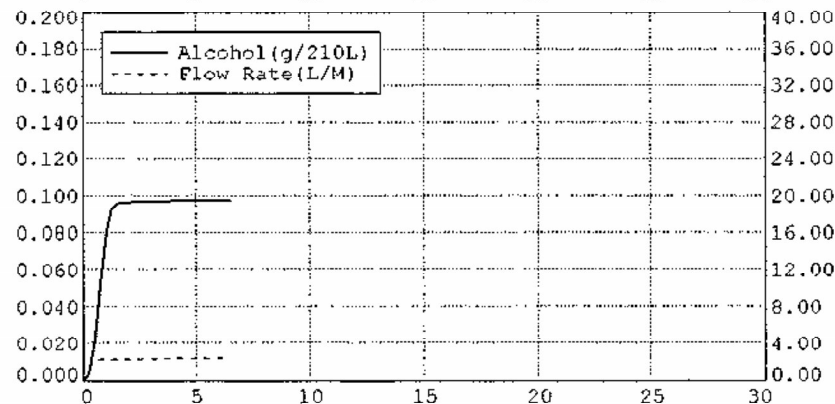
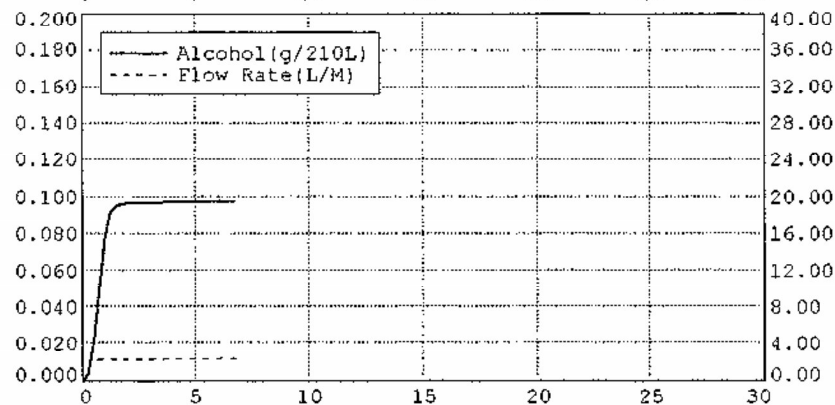
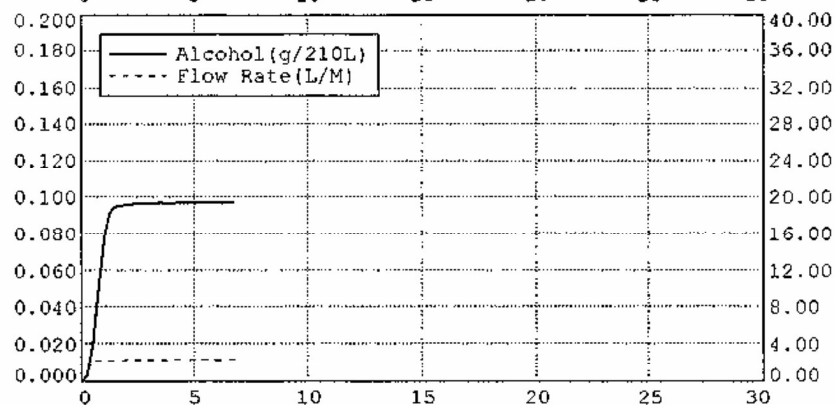
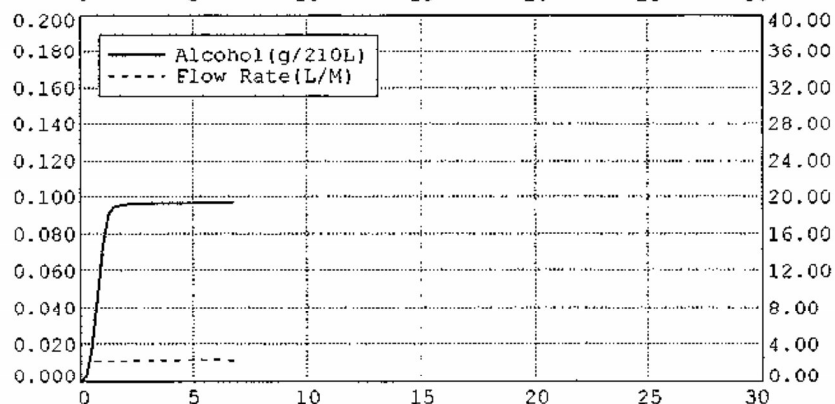
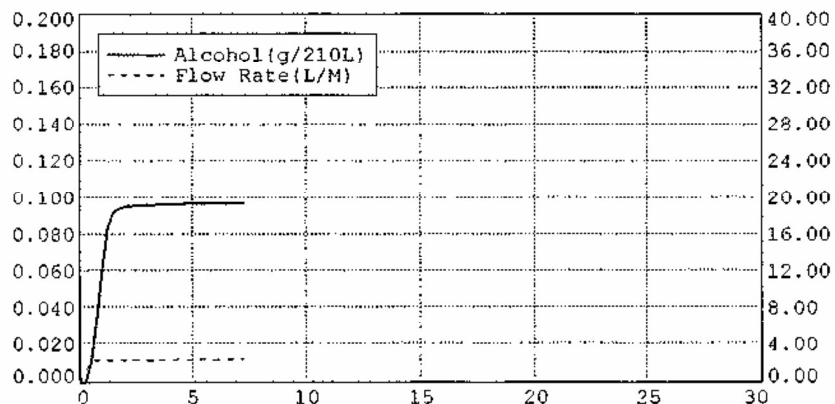
Date: 05/27/2015
Time: 11:04:55

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 30.02: 0.100
LOT #: 02915100A1
EXPIRATION: 03/05/2017
TANK PRESSURE: 847 psi

BLANK TEST	0.000	11:05
INTERNAL STANDARD	VERIFIED	11:06
EXTERNAL STANDARD	0.098	11:06
BLANK TEST	0.000	11:07
EXTERNAL STANDARD	0.098	11:07
BLANK TEST	0.000	11:08
EXTERNAL STANDARD	0.098	11:08
BLANK TEST	0.000	11:09
EXTERNAL STANDARD	0.099	11:09
BLANK TEST	0.000	11:10
EXTERNAL STANDARD	0.098	11:10
BLANK TEST	0.000	11:11

Average = 0.0982
Std Dev = 0.0004



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100386

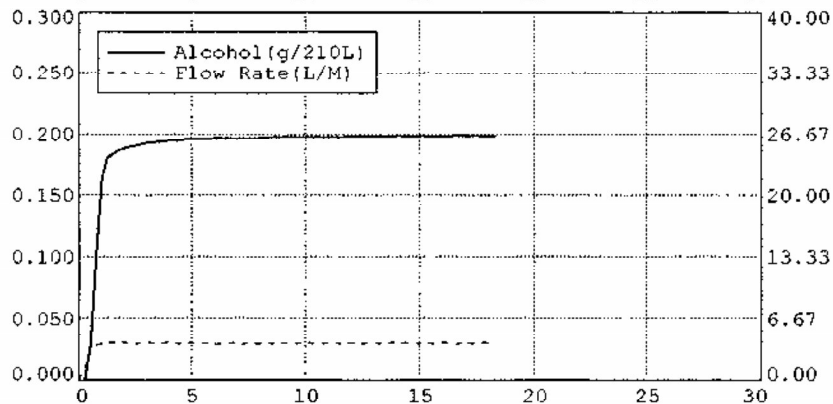
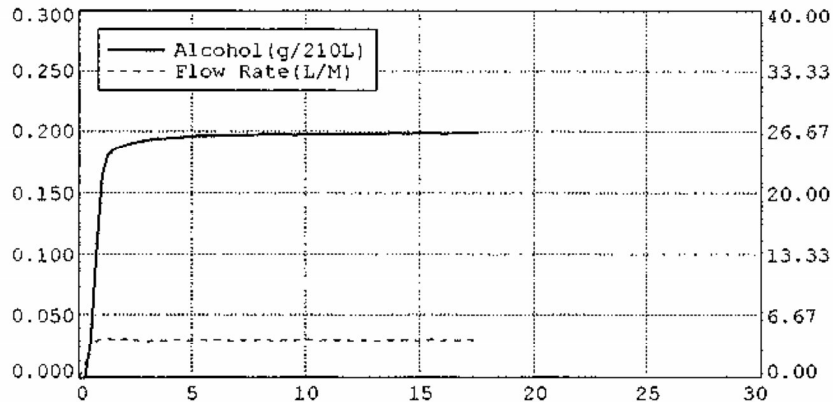
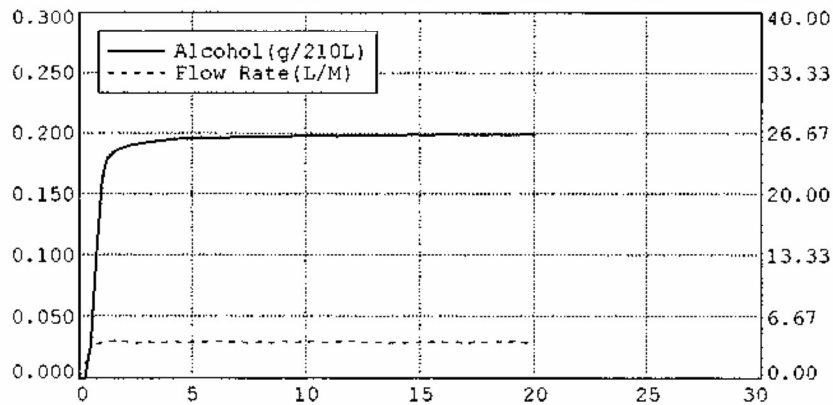
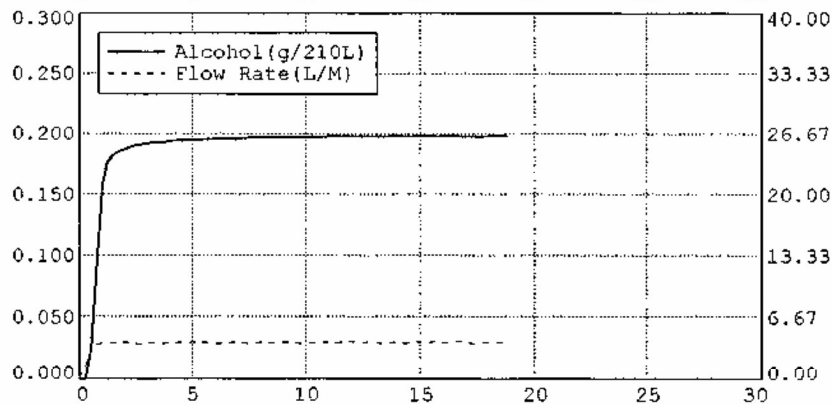
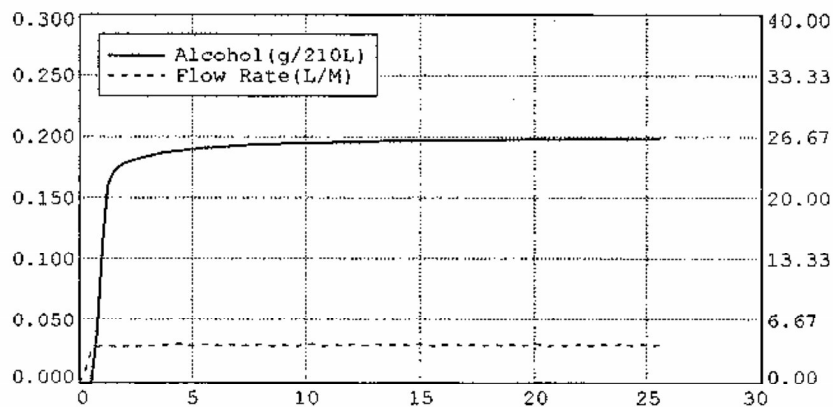
Date: 05/27/2015
Time: 11:20:02

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	11:21
INTERNAL STANDARD	VERIFIED	11:21
EXTERNAL STANDARD	0.200	11:21
BLANK TEST	0.000	11:22
EXTERNAL STANDARD	0.200	11:23
BLANK TEST	0.000	11:24
EXTERNAL STANDARD	0.200	11:24
BLANK TEST	0.000	11:25
EXTERNAL STANDARD	0.200	11:25
BLANK TEST	0.000	11:26
EXTERNAL STANDARD	0.200	11:27
BLANK TEST	0.000	11:28

Average = 0.2000
Std Dev = 0.0000



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100386

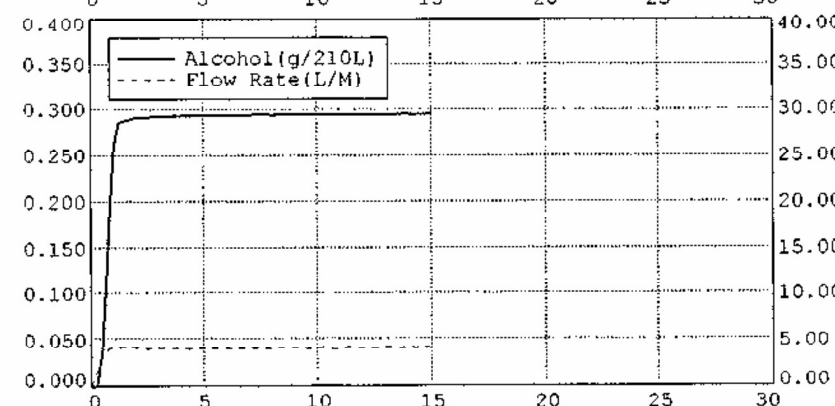
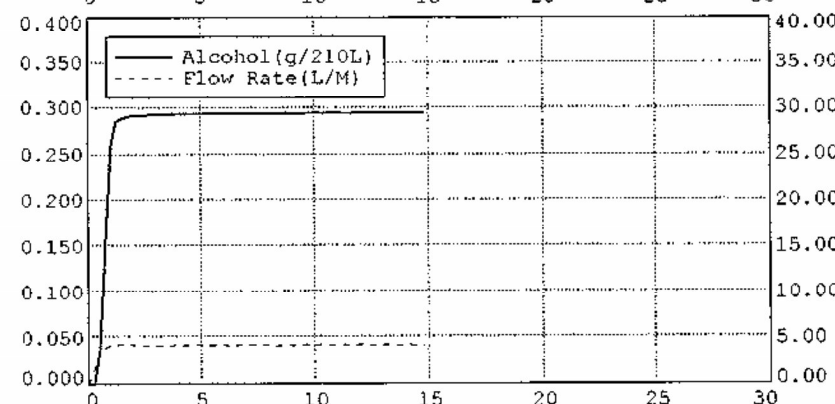
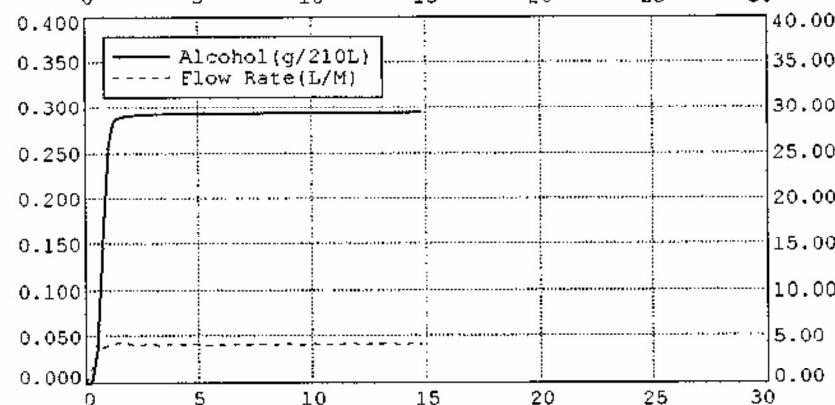
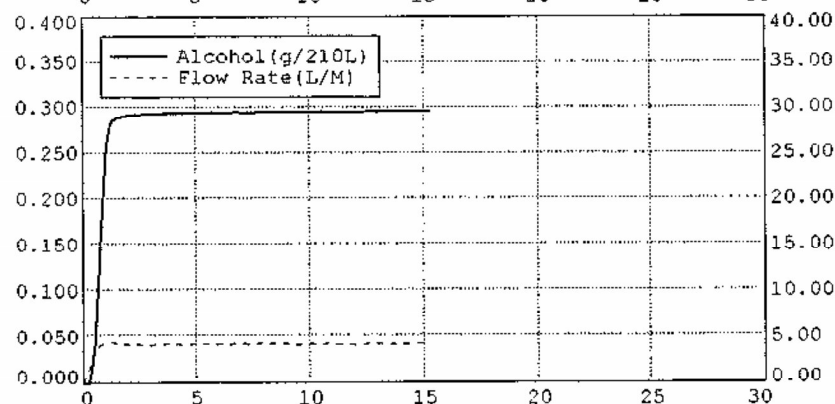
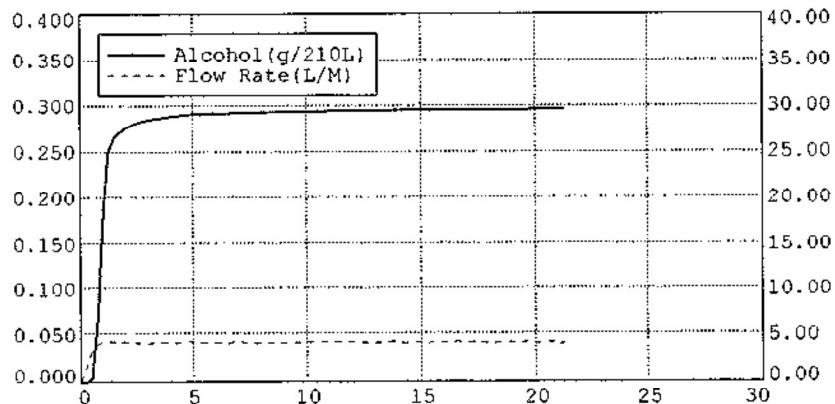
Date: 05/27/2015
Time: 12:10:20

EXTERNAL STANDARD INFORMATION

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

BLANK TEST	0.000	12:11
INTERNAL STANDARD	VERIFIED	12:11
EXTERNAL STANDARD	0.296	12:12
BLANK TEST	0.000	12:13
EXTERNAL STANDARD	0.296	12:13
BLANK TEST	0.000	12:14
EXTERNAL STANDARD	0.295	12:14
BLANK TEST	0.000	12:15
EXTERNAL STANDARD	0.295	12:16
BLANK TEST	0.000	12:17
EXTERNAL STANDARD	0.295	12:17
BLANK TEST	0.000	12:18

Average = 0.2954
Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100386

Date: 05/26/2015
Time: 15:43:48

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

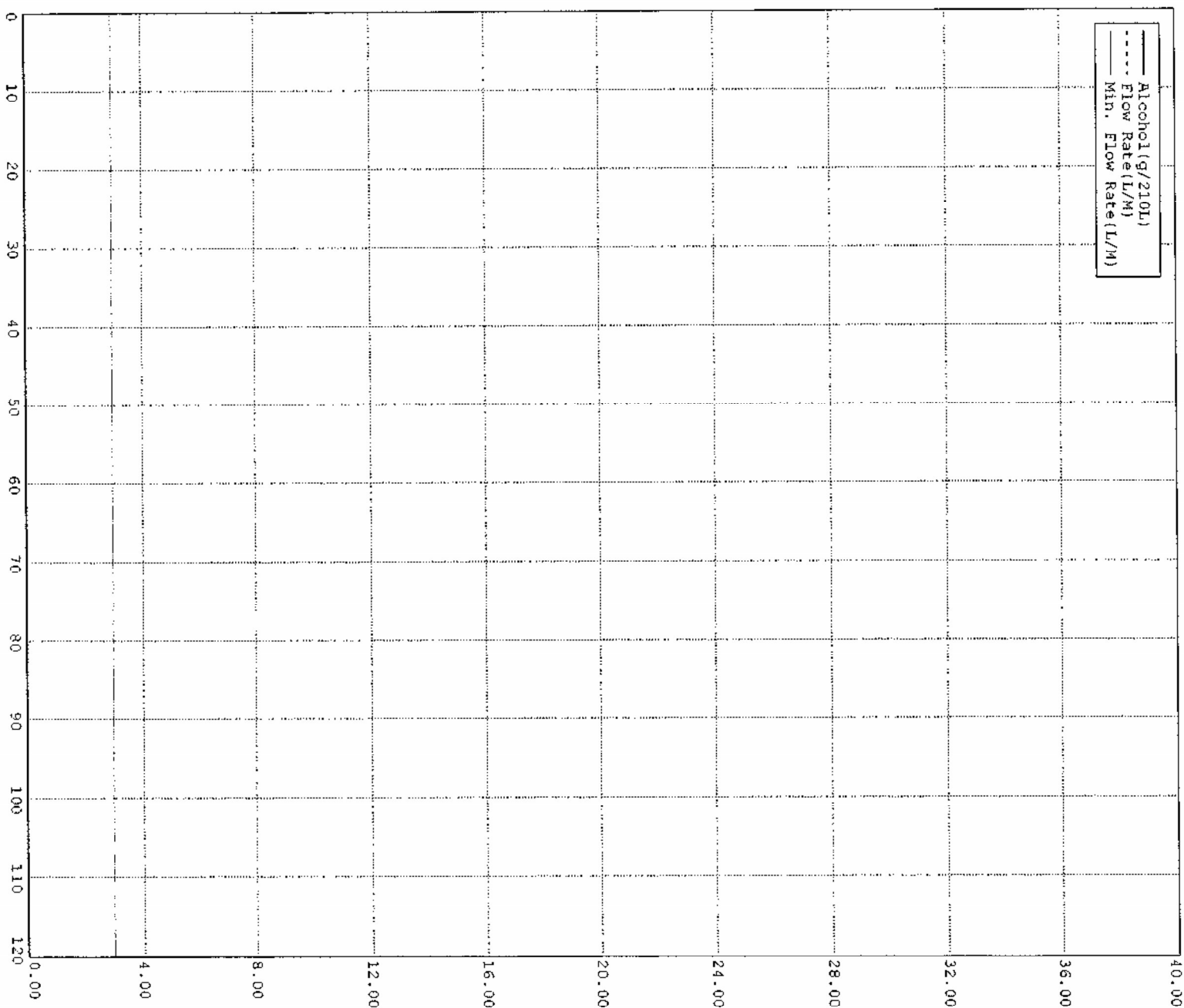
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.92: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	15:45
BLANK TEST	0.000	15:45
INTERNAL STANDARD	VERIFIED	15:45
EXTERNAL STANDARD	0.079	15:45
BLANK TEST	0.000	15:46
SUBJECT SAMPLE	INCOMPLETE	15:48

BRMB



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100386

Date: 05/26/2015
 Time: 15:52:04

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

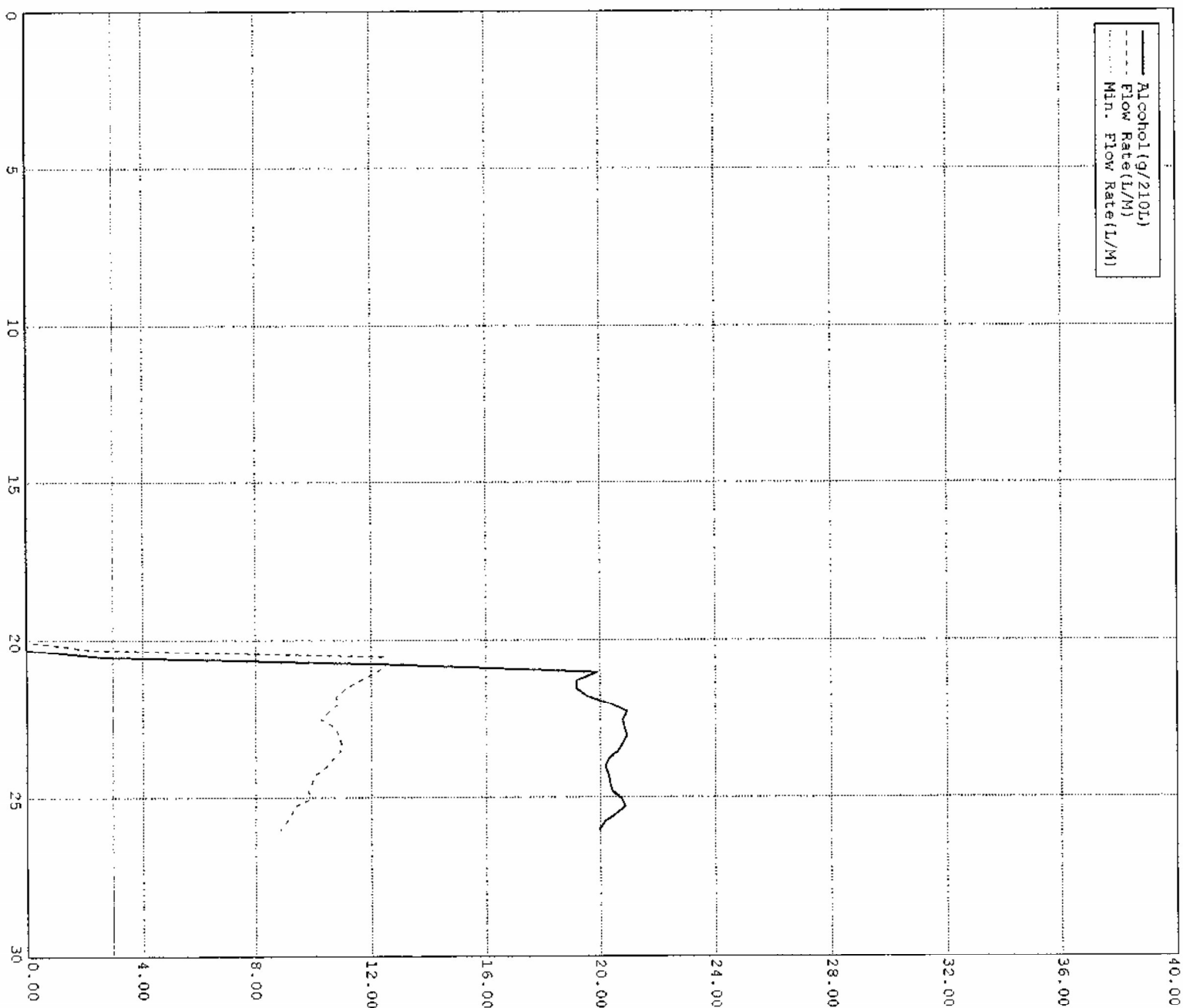
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.92: 0.080
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

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

Brandi Barnett



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100386

Date: 05/27/2015
 Time: 12:33:39

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 INTERFERE ACETONE
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 30.00: 0.080
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK

BLANK TEST

INTERNAL STANDARD

Xq = 0.093 (1.24%)

EXTERNAL STANDARD

X[1] = 0.0791 (0.0003)

BLANK TEST

SUBJECT SAMPLE

X[1] = 0.1085 (-0.0118) (0.0030)

Interference Detected

PASSED 12:35
 0.000 12:35
 VERIFIED 12:35

0.079 12:36

(0.0024) 12:37

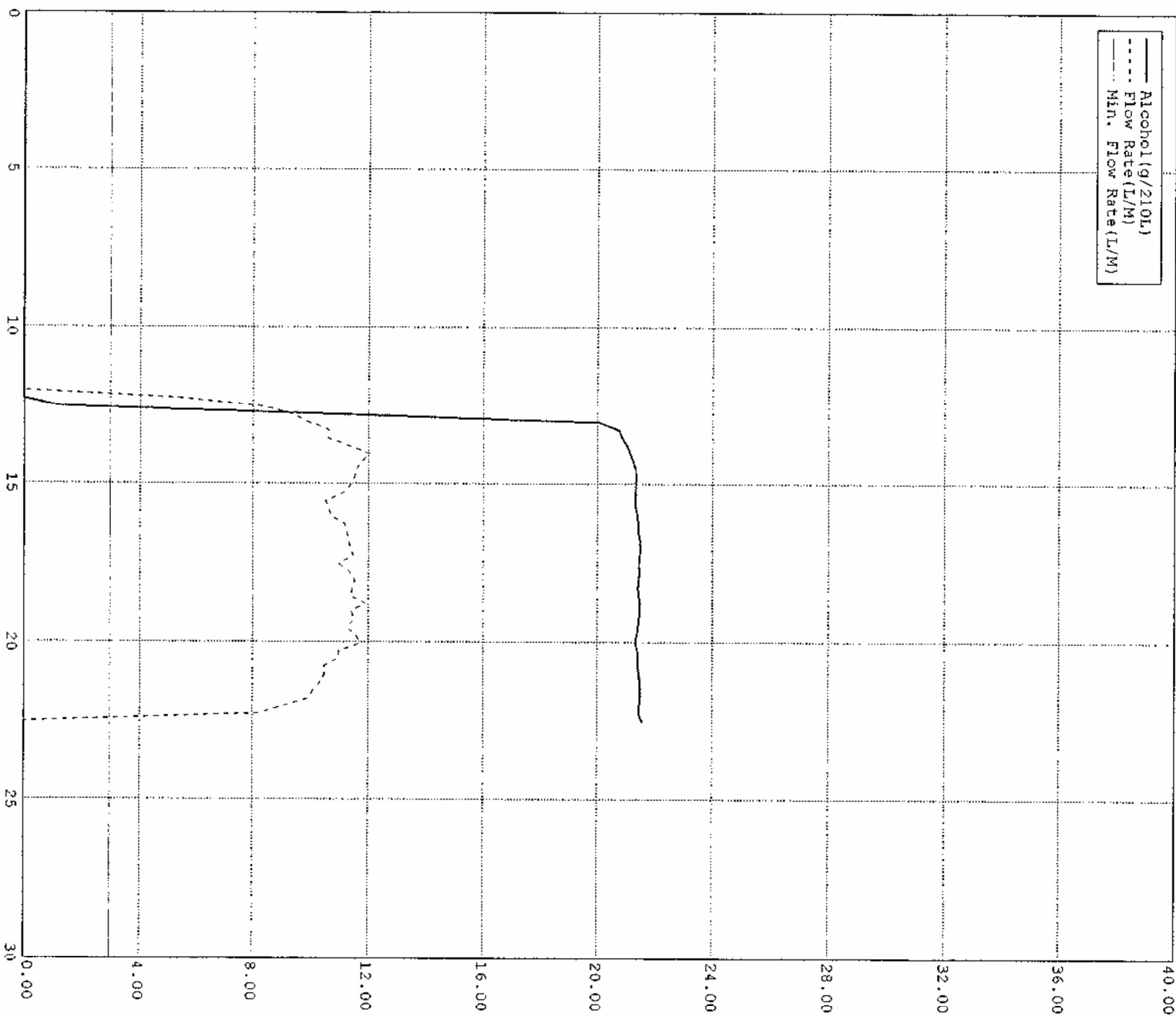
0.000 12:37

XXX 12:37

(0.0030)

0.0009 BMB
 0.0000 BMB
 0.0024 BMB
 0.0025 BMB
 6/10/15

BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100386

Date: 05/27/2015
Time: 12:39:44

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

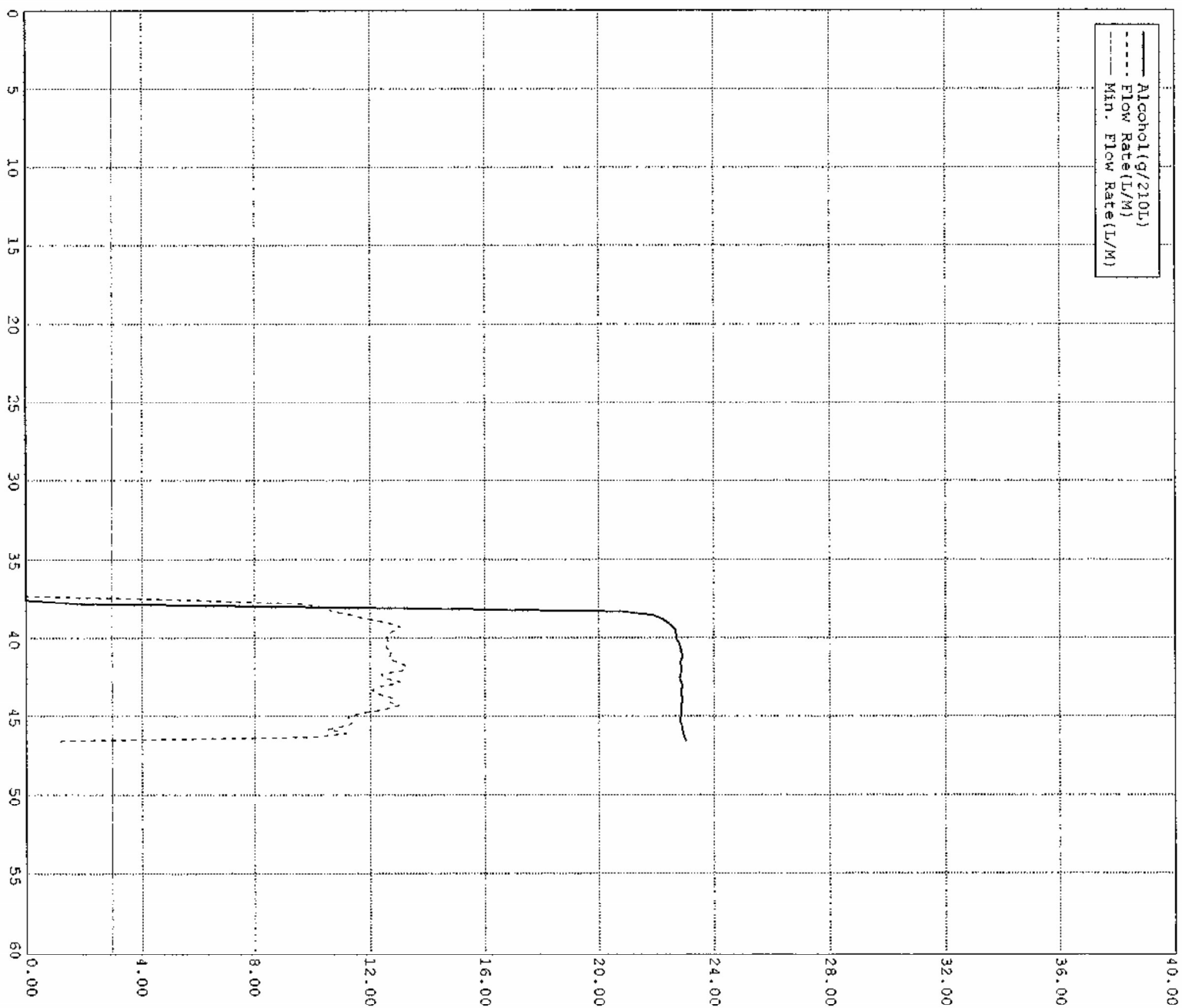
DEPT/AGENCY:
INTERFERE ISOPROPYL
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.00: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK
BLANK TEST PASSED 12:41
INTERNAL STANDARD VERIFIED 12:41
Xq = 0.093 (1.33%)
EXTERNAL STANDARD 0.080 12:41
X[1] = 0.0796 (0.0008) (0.0024)
BLANK TEST 0.000 12:42
SUBJECT SAMPLE XXX 12:43
X[1] = 0.1157 (-0.0219) (0.0012)

Interference Detected

Brandi Barnett

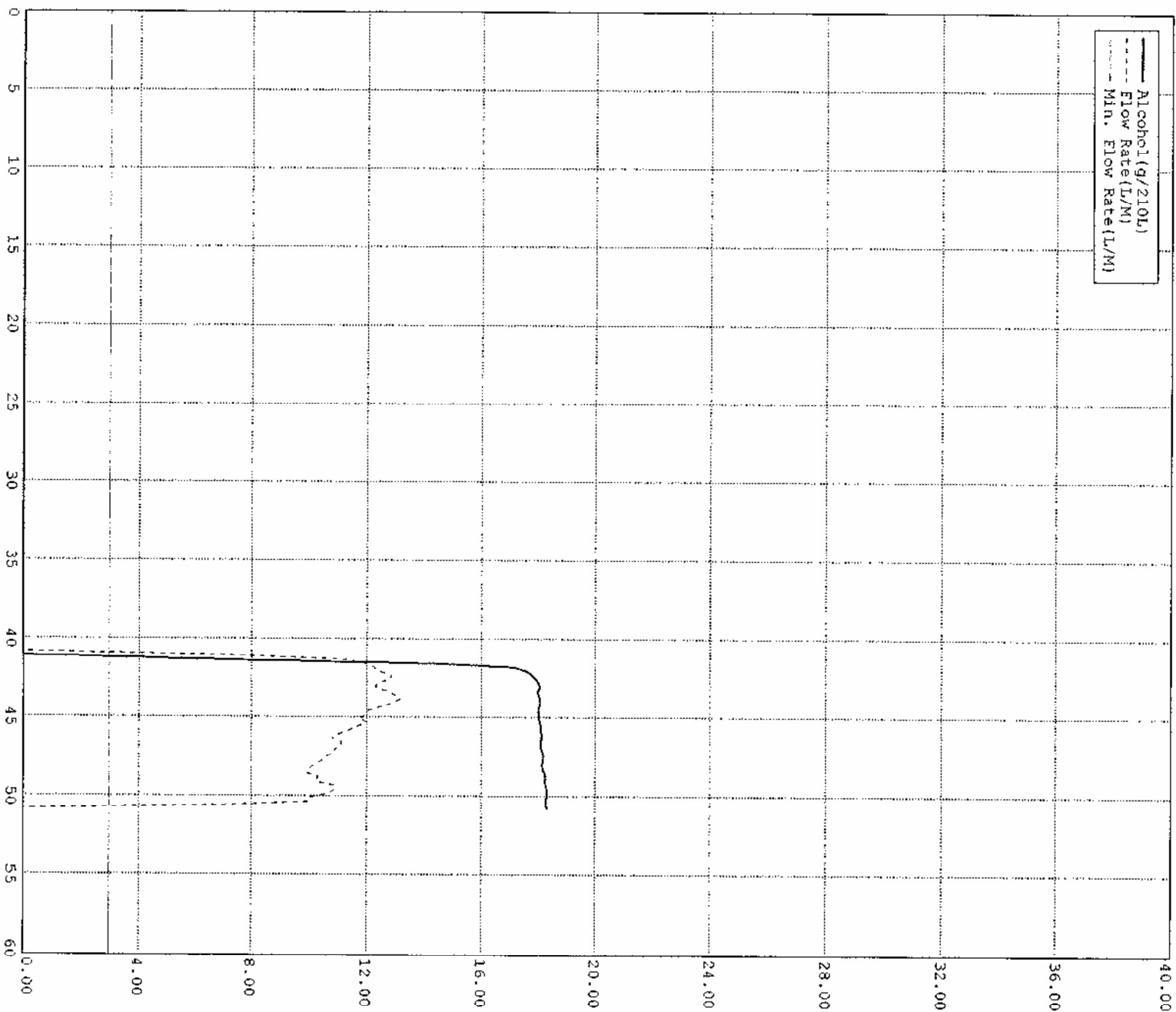


SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100386Date: 05/27/2015
Time: 12:46:20SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038DEPT/AGENCY:
INTERFERE NEGATIVE CONTROL
CASE/REPORT: XXXX
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.00: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	12:47
BLANK TEST	0.000	12:47
INTERNAL STANDARD	VERIFIED	12:48
X _q = 0.092 (0.57%)	0.079	12:48
EXTERNAL STANDARD	X _q = 0.0791 (0.0008)	(0.0027)
BLANK TEST	0.000	12:49
SUBJECT SAMPLE (Vol=1.83L)	0.092	12:50
X _q = 0.0924 (0.0021)	(0.0015)	
BLANK TEST	0.000	12:51
EXTERNAL STANDARD	0.079	12:51
X _q = 0.0792 (0.0015)	(0.0024)	
BLANK TEST	0.000	12:52

BMB



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100386

Date: 05/26/2015
Time: 16:03:38

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

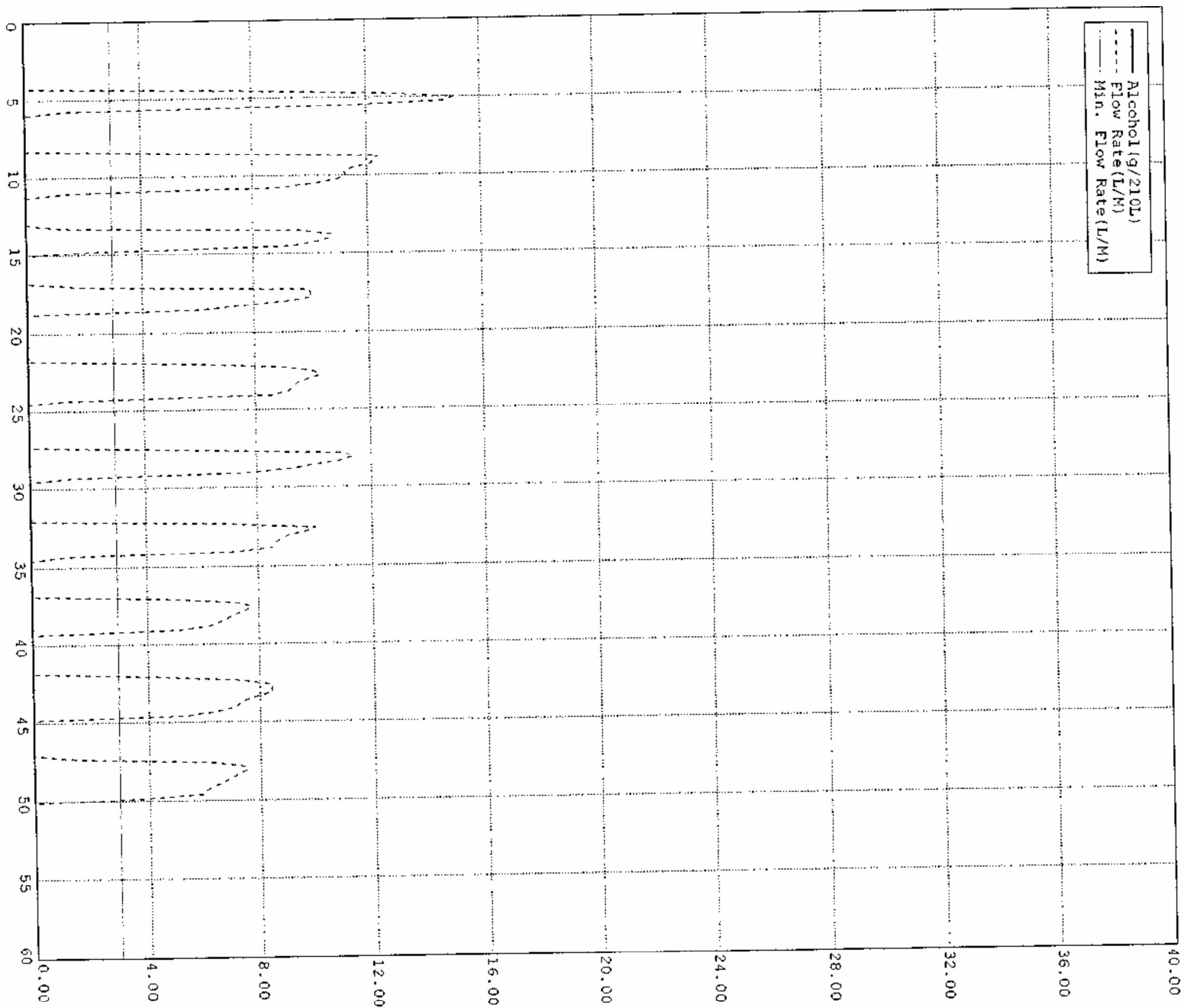
DEPT/AGENCY:
MAXIMUM ATTEMPTS
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.92: 0.080
LOT #: 11313080A1
EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	16:05
BLANK TEST	0.000	16:05
INTERNAL STANDARD	VERIFIED	16:05
EXTERNAL STANDARD	0.079	16:05
BLANK TEST	0.000	16:06
SUBJECT SAMPLE	XXX	16:07

Maximum Attempts Exceeded

BNB



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100386

Date: 05/26/2015
 Time: 15:58:33

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

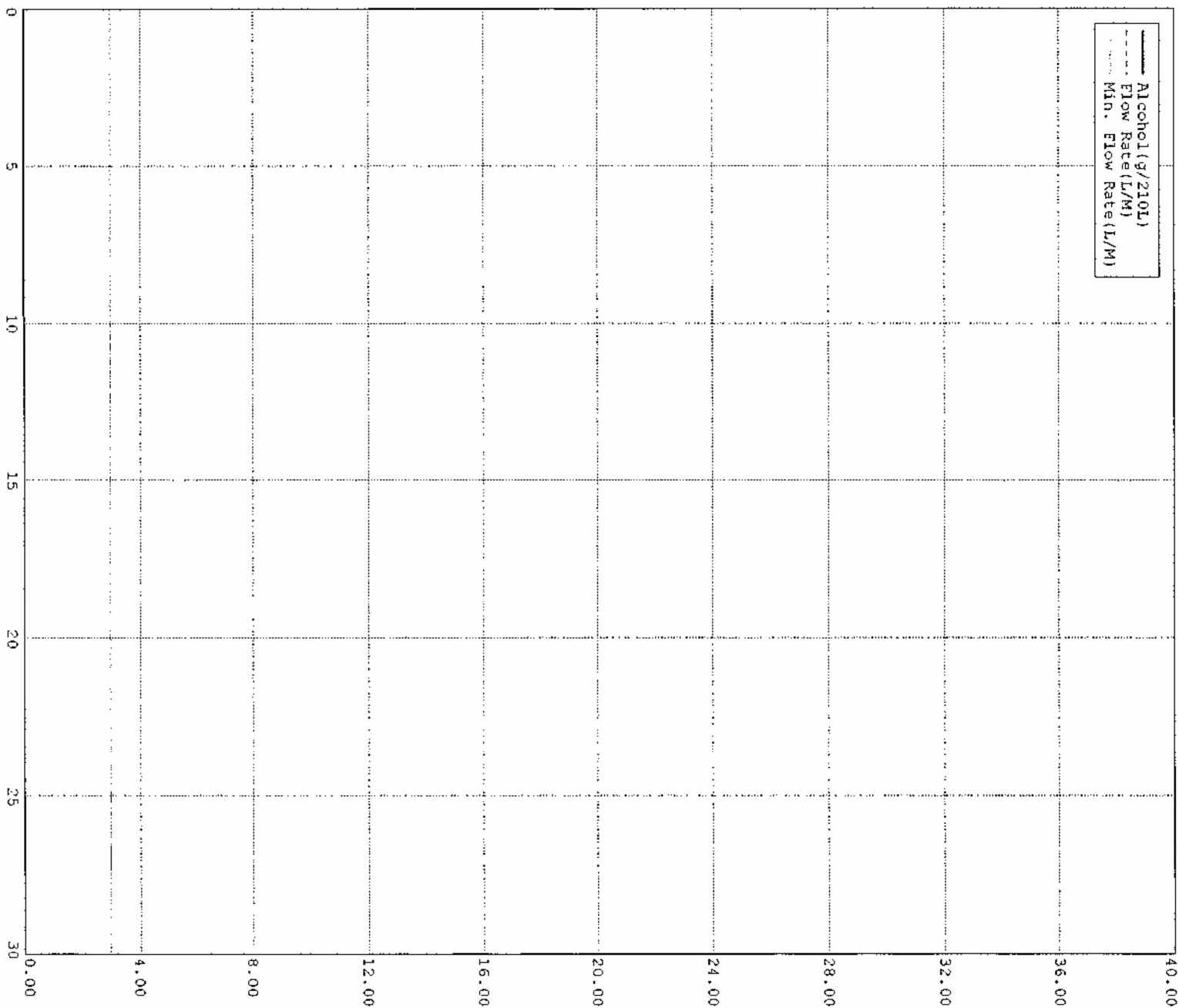
DEPT/AGENCY:
 RFI
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.92: 0.080
 LOT #: 11313080A1
 EXPIRATION: 06/01/2015

DIAGNOSTIC CHECK	PASSED	16:00
BLANK TEST	0.000	16:00
INTERNAL STANDARD	VERIFIED	16:00
EXTERNAL STANDARD	0.079	16:00
BLANK TEST	0.000	16:01

RFI DETECTED

Handwritten signature/initials



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100386

Date: 05/27/2015
Time: 13:13:25

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

DEPT/AGENCY:
NON DRINKING SUBJECT TEST
CASE/REPORT: XXXX
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 30.00: 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	0.079	13:18
BLANK TEST	0.000	13:19
SUBJECT SAMPLE (Vol=1.54L)	0.000	13:20
BLANK TEST	0.000	13:21
EXTERNAL STANDARD	0.080	13:21
BLANK TEST	0.000	13:22

Brandi Barnett

