

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 04/04/2012

Version: DMCEF2012 R1

Effective: 04/04/2012

Status: Active

Instrument S/N 100418 Analyst Brandi Barnett Start Date 8/28/12Diagnostic Test (attached) ☒

1. Voltage Checks

a. Adjust voltages, if needed ☒

i. Lamp (2.6V Maximum)

ii. Bias (80V)

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)

2. Print Calibration Factors (attached)

3. Volume Test - Minimum 1600 mL (1.3L to 1.7L) ☒

4. Linearity Test (attached)

a. Levels Used ☒i. 0.020g/210L Mnf ILMO Lot 07611020A5 Exp 3/1/13ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 3/1/13iii. 0.080g/210L Mnf ILMO Lot 02012080A1 Exp 3/1/14iv. 0.100g/210L Mnf ILMO Lot 07611100A3 Exp 3/1/13v. 0.200g/210L Mnf Guth Lot 11120 Exp 7/19/131. Simulator S/N SD1198 Date Calibrated 01/10/12vi. 0.300g/210L Mnf Guth Lot 11110 Exp 7/13/131. Simulator S/N DR4178 Date Calibrated 2/21/12

5. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf Guth Lot 11250 Level 0.100 Exp 12/6/20131. Simulator S/N SD1199 Date Calibrated 01/11/2012ii. Isopropanol - Mnf Guth Lot 11100 Level 0.100 Exp 7/6/131. Simulator S/N 01/10/2012 Date Calibrated DR6267iii. Negative Control - Mnf Guth Lot 11220 Level 0.100 Exp 10/24/131. Simulator S/N DR4176 Date Calibrated 2/21/12d. RFI ☒6. Verify stylus is calibrated ☒7. Verify card reader is functional ☒8. Reset Options ☒9. Clear Memory ☒10. Verification of Calibration ☒11. Non-Drinking Subject Test (attached) ☒12. Upload ☒13. Update agency information and polling status in DM Host Calling Program ☒End Date 8/28/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100418

Date: 08/28/2012
Time: 09:35:55

VERSIONS
DMT: 2.00
PIC: 3.02
Modem: 2.3
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.9°C	PASSED
Breath Tube = 48.1°C	PASSED

PUMP INFO	
Flow Rate = 5.497 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
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2/19 BMB

Technician Screen

DATAMASTER dmt: 100418

Date: 08/28/2012

Time: 9:40 AM

Temperatures (°C)

Sample Cell: 49.0°C

Breath Tube: 47.2°C

Current Barometer 29.9 in

Volume (Ltr) 1.49

Settings

Lamp: 1.83 V

Bias: 80 V

Cooler: 1.74 V

Chopper: 531 Hz

Voltages (V)

Flow: 1.07 V

Detector: 0.032 V

3/19/08 MB

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100418

Date: 05/18/2011
Time: 14:10:12

OPERATOR NAME:
COLLEEN S OBRYANT
CERTIFICATE #: 6237

LOT #: GUTH100
BOTTLE #: 10260
EXPIRATION: 10/25/2010

Ca	=	0.1000			
CAL	=	0.984347	0.800	<=	CAL < 1.200
b1	=	0.0002	0.0000	<=	b1 < 0.0040
b2	=	0.0065	0.0010	<=	b2 < 0.0100
b3	=	0.0000	0.0000	<=	b3 < 0.0040
Xq	=	0.0791	0.0500	<=	Xq < 0.2000
a21	=	1.171803	1.050	<=	a21 < 1.300
a31	=	0.460593	0.300	<=	a31 < 0.800

4/19/11 BMB

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100418

Date: 08/28/2012
 Time: 09:40:53

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

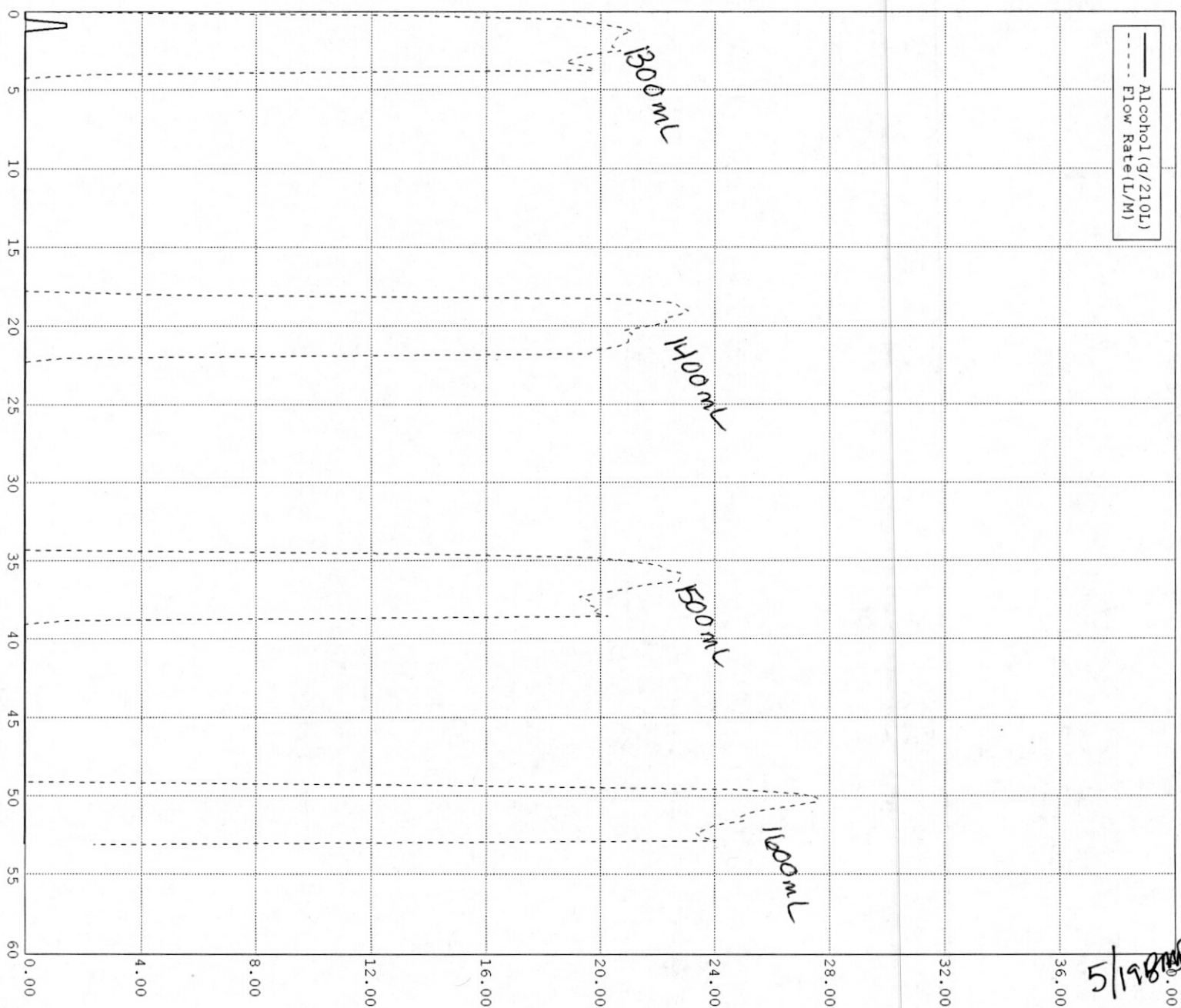
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.94: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	09:42
BLANK TEST	0.000	09:42
INTERNAL STANDARD	VERIFIED	09:43
EXTERNAL STANDARD	0.080	09:43
BLANK TEST	0.000	09:44
SUBJECT SAMPLE	0.000	09:45
BLANK TEST	0.000	09:46
EXTERNAL STANDARD	0.080	09:46
BLANK TEST	0.000	09:47

BNB



5/19/2012

LINEARITY CHECK

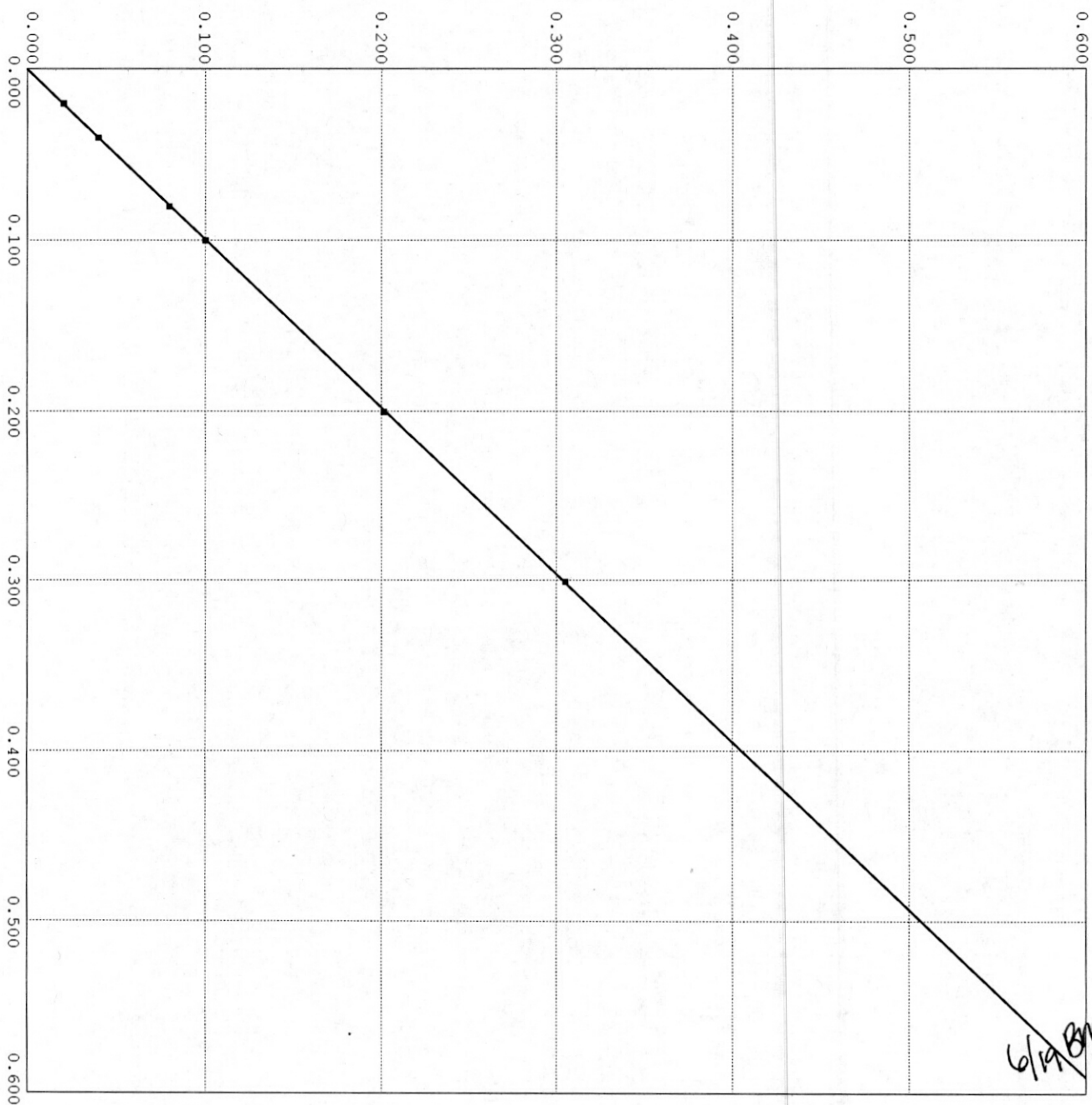
 Alaska Department of Public Safety
 DATAMASTER dmt: 100418

Date: 08/28/2012
 Time: 11:53:29

SUPERVISOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

TARGET	AVERAGE	STD. DEV.
0.020	0.0210	0.0003
0.040	0.0408	0.0003
0.080	0.0807	0.0002
0.100	0.1011	0.0003
0.200	0.2022	0.0004
0.300	0.3058	0.0007

SLOPE = 1.017004
 R^2 = 0.999952



BMB

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100418

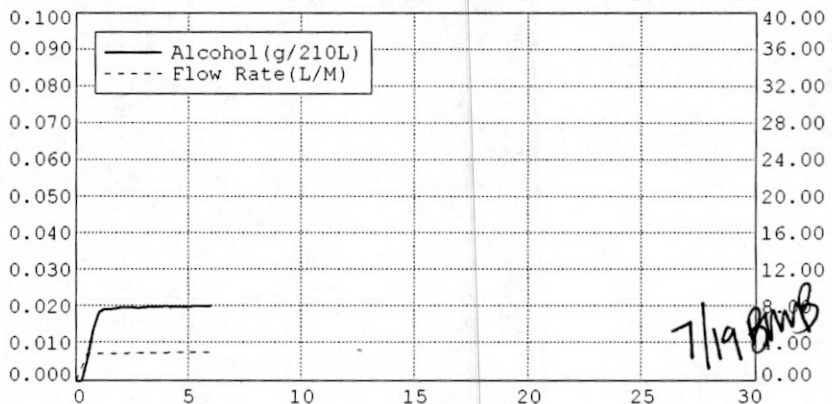
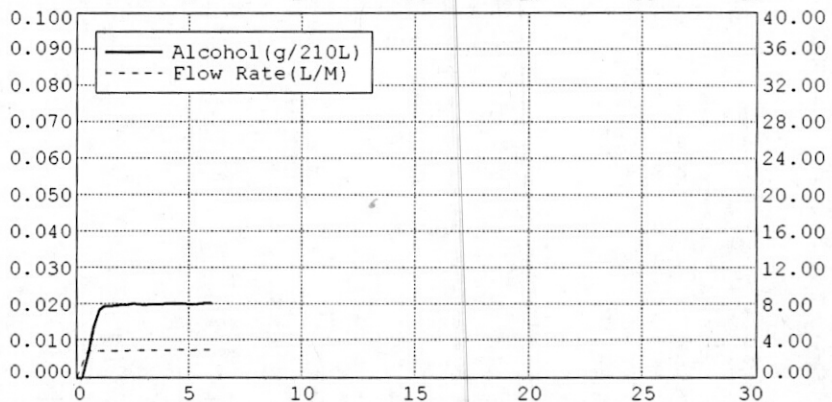
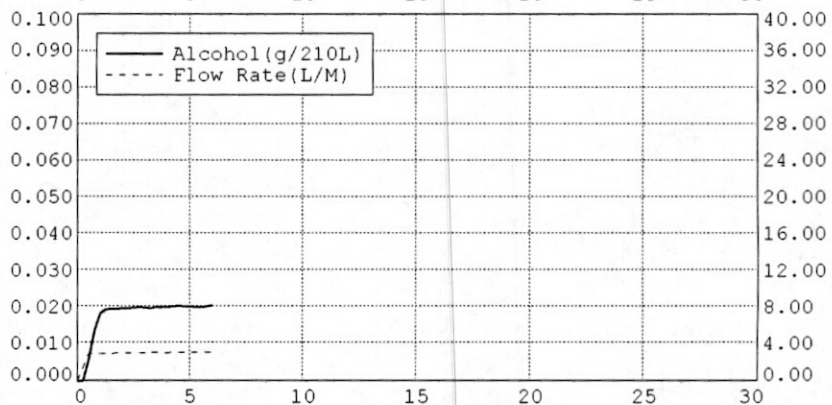
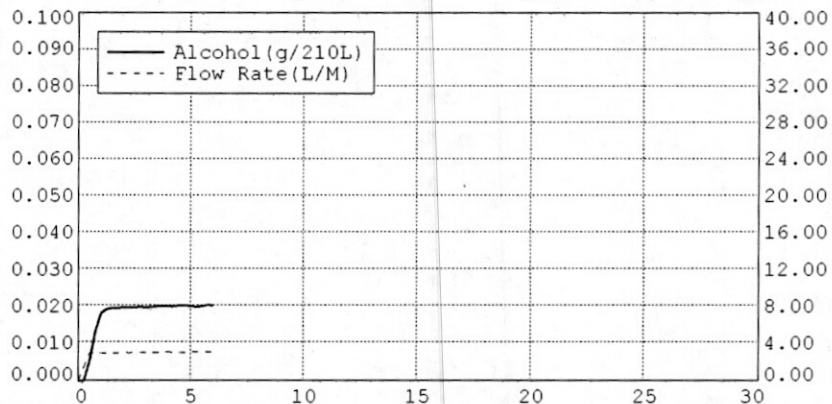
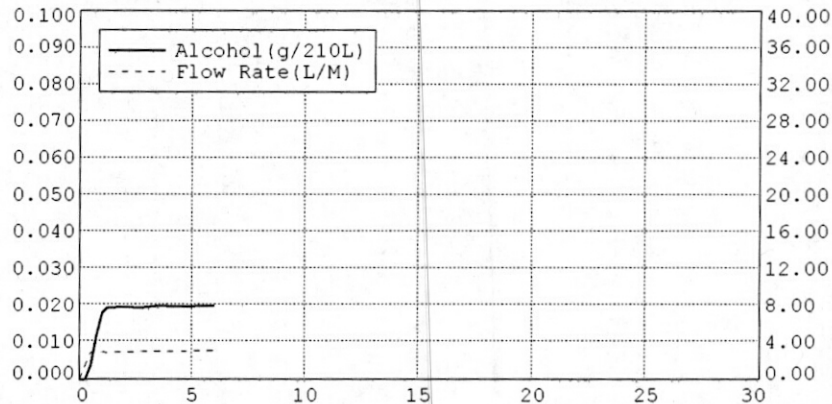
Date: 08/28/2012
Time: 11:53:30

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.95: 0.020
LOT #: 07611020A5
EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:55
INTERNAL STANDARD	VERIFIED	11:55
EXTERNAL STANDARD	0.020	11:55
BLANK TEST	0.000	11:56
EXTERNAL STANDARD	0.020	11:56
BLANK TEST	0.000	11:57
EXTERNAL STANDARD	0.021	11:57
BLANK TEST	0.000	11:58
EXTERNAL STANDARD	0.021	11:58
BLANK TEST	0.000	11:59
EXTERNAL STANDARD	0.021	11:59
BLANK TEST	0.000	12:00

Average = 0.0210
Std Dev = 0.0003



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100418

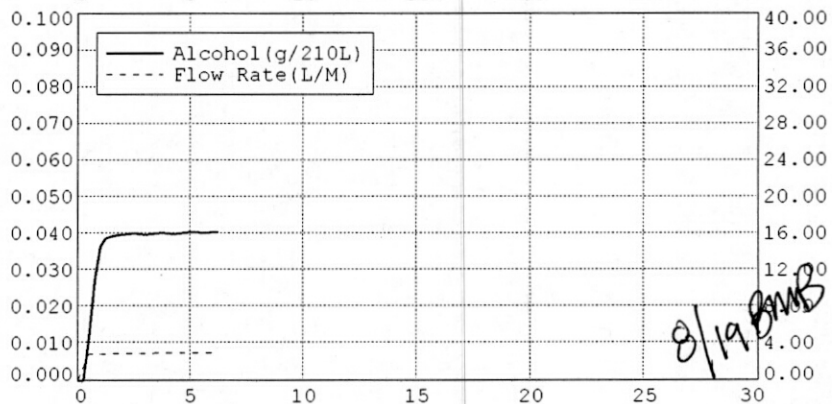
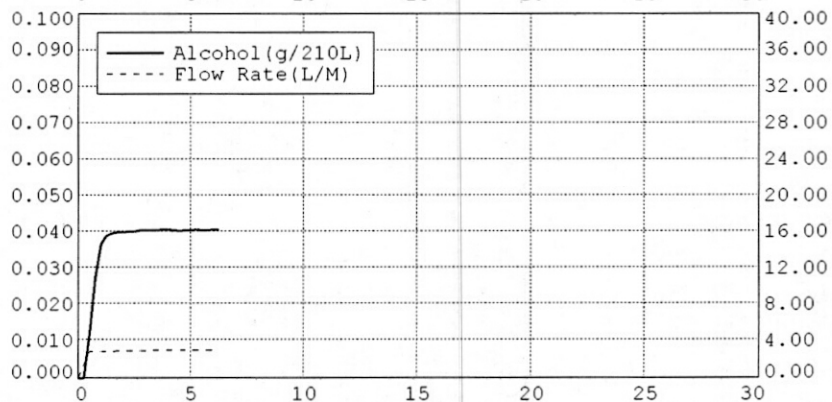
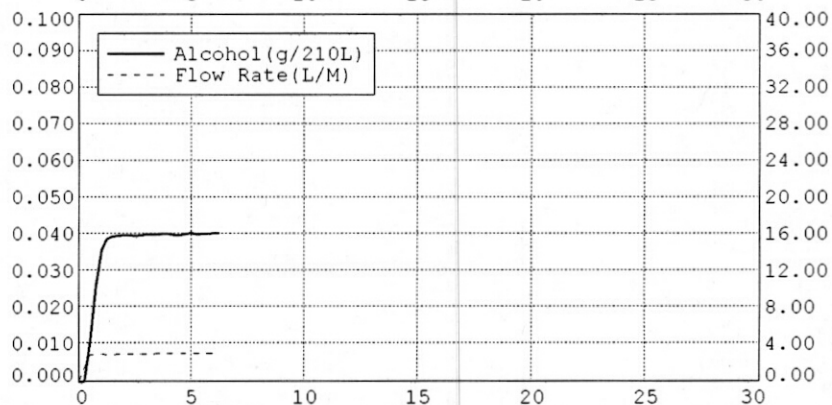
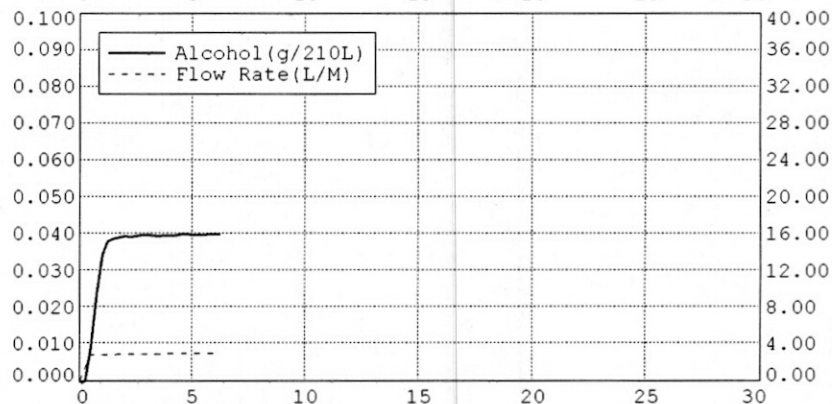
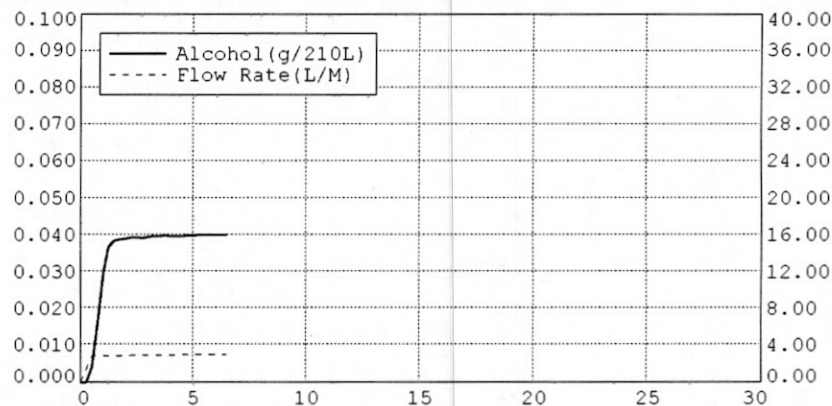
Date: 08/28/2012
Time: 12:44:21

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.96: 0.040
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	12:45
INTERNAL STANDARD	VERIFIED	12:45
EXTERNAL STANDARD	0.040	12:45
BLANK TEST	0.000	12:46
EXTERNAL STANDARD	0.040	12:46
BLANK TEST	0.000	12:47
EXTERNAL STANDARD	0.040	12:48
BLANK TEST	0.000	12:48
EXTERNAL STANDARD	0.041	12:49
BLANK TEST	0.000	12:50
EXTERNAL STANDARD	0.040	12:50
BLANK TEST	0.000	12:51

Average = 0.0408
Std Dev = 0.0003



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100418

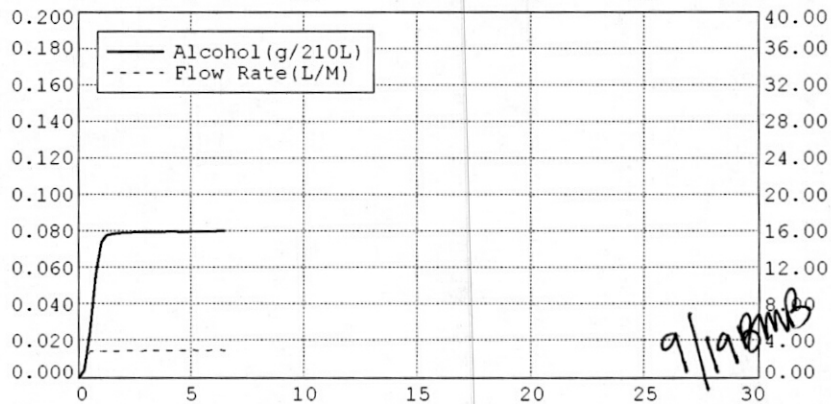
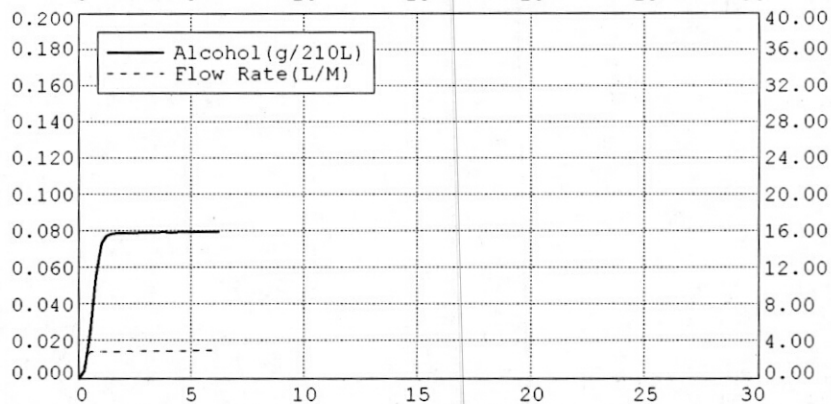
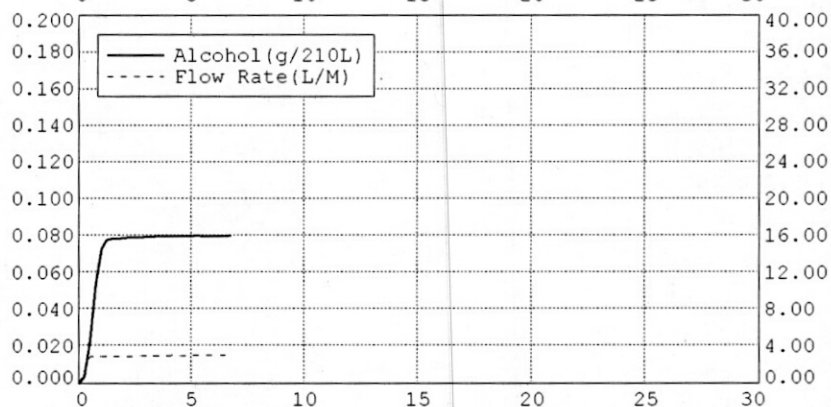
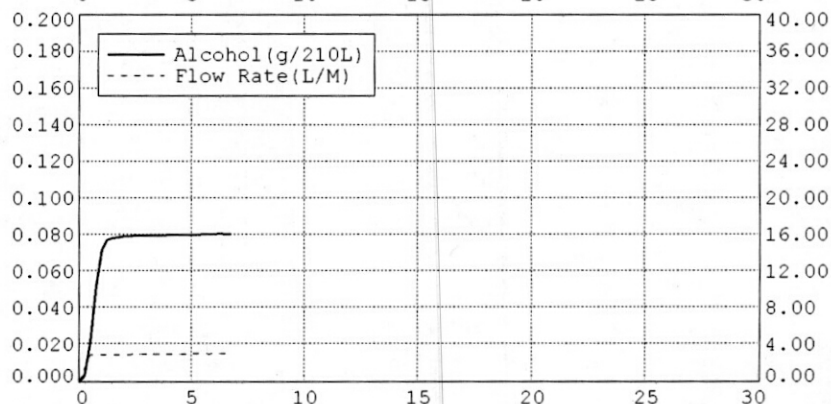
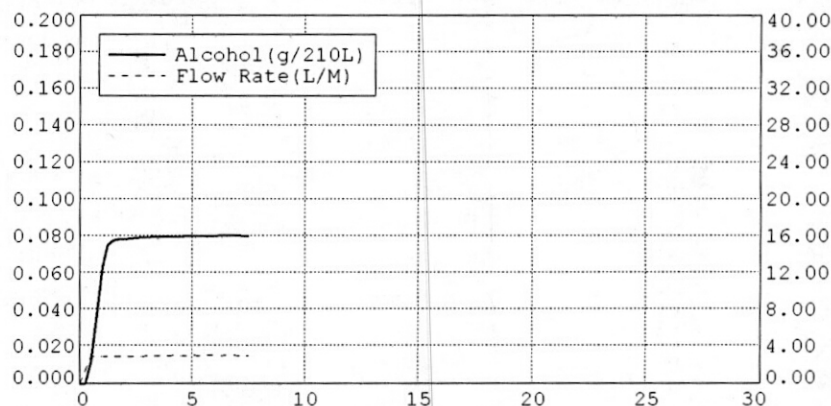
Date: 08/28/2012
Time: 12:52:27

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.95: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

BLANK TEST	0.000	12:54
INTERNAL STANDARD	VERIFIED	12:54
EXTERNAL STANDARD	0.080	12:54
BLANK TEST	0.000	12:55
EXTERNAL STANDARD	0.081	12:55
BLANK TEST	0.000	12:56
EXTERNAL STANDARD	0.080	12:56
BLANK TEST	0.000	12:57
EXTERNAL STANDARD	0.080	12:57
BLANK TEST	0.000	12:58
EXTERNAL STANDARD	0.080	12:58
BLANK TEST	0.000	12:59

Average = 0.0807
Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100418

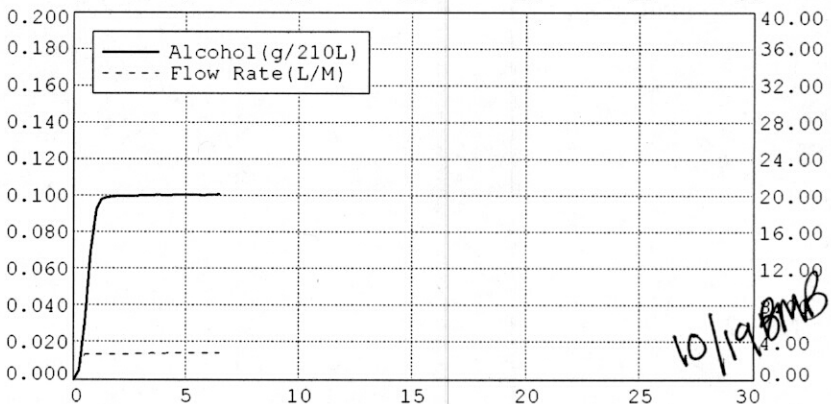
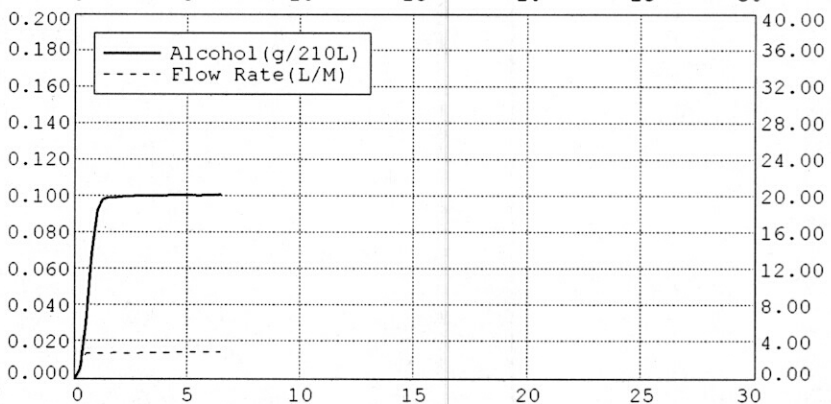
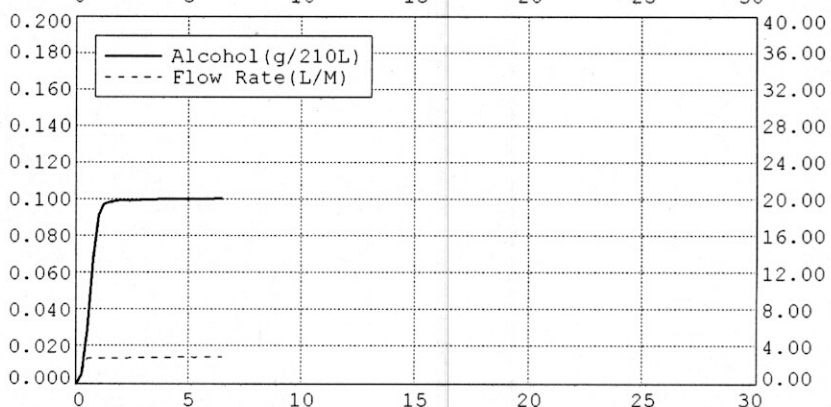
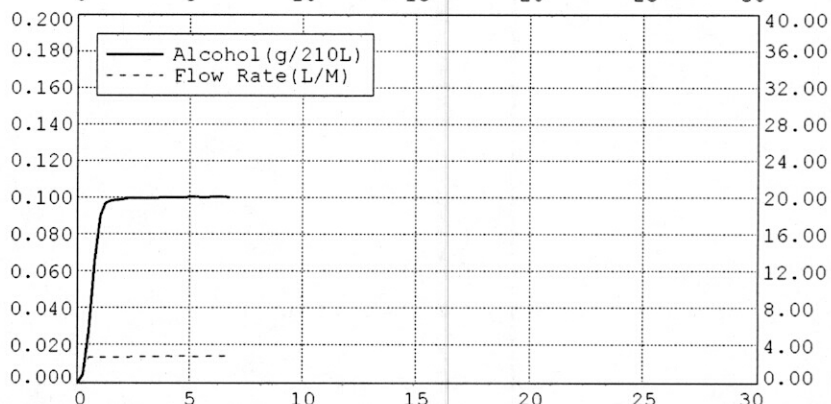
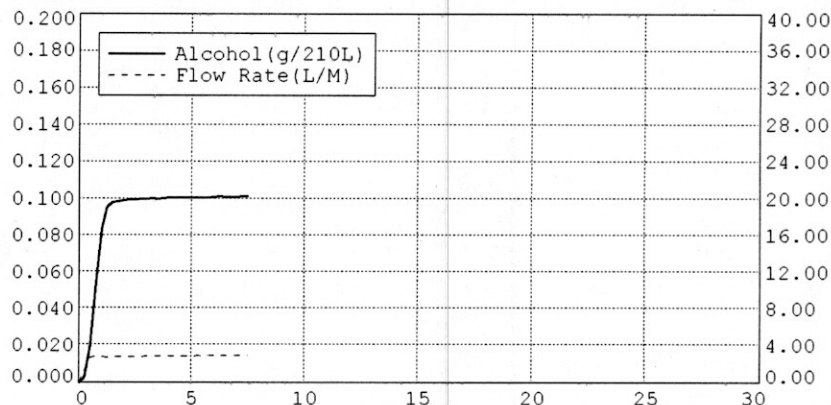
Date: 08/28/2012
Time: 13:01:08

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100
TARGET AT 29.96: 0.100
LOT #: 07611100A3
EXPIRATION: 03/01/2013

BLANK TEST	0.000	13:02
INTERNAL STANDARD	VERIFIED	13:02
EXTERNAL STANDARD	0.101	13:02
BLANK TEST	0.000	13:03
EXTERNAL STANDARD	0.101	13:03
BLANK TEST	0.000	13:04
EXTERNAL STANDARD	0.100	13:04
BLANK TEST	0.000	13:05
EXTERNAL STANDARD	0.101	13:05
BLANK TEST	0.000	13:06
EXTERNAL STANDARD	0.101	13:07
BLANK TEST	0.000	13:07

Average = 0.1011
Std Dev = 0.0003



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100418

Date: 08/28/2012
Time: 13:08:55

EXTERNAL STANDARD INFORMATION

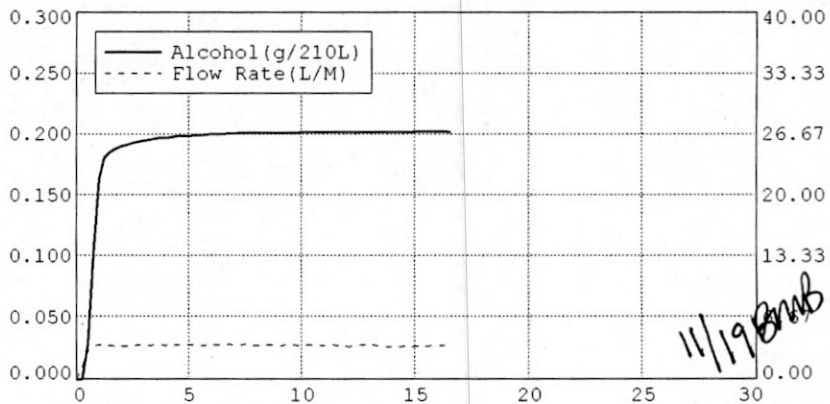
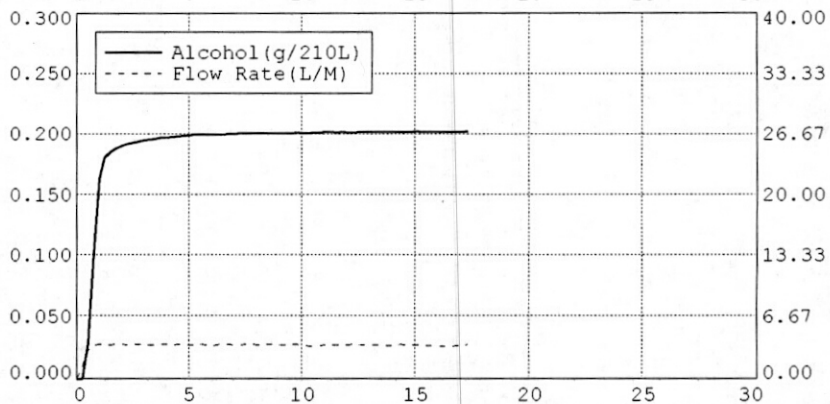
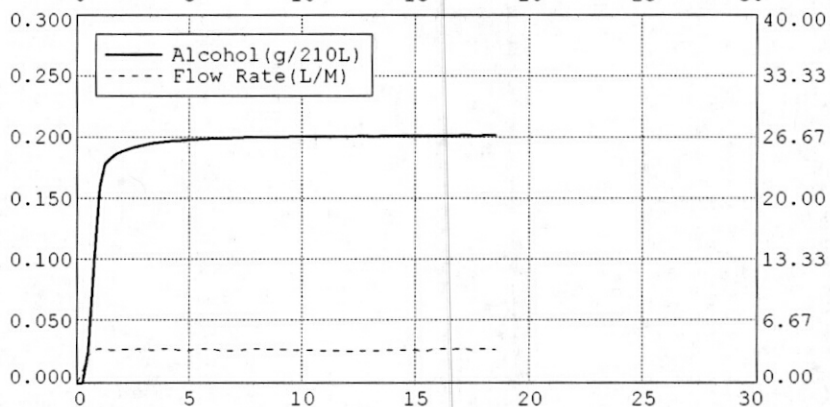
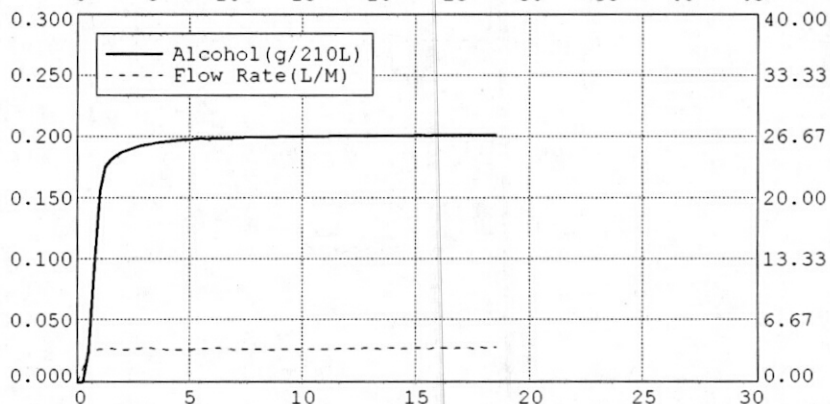
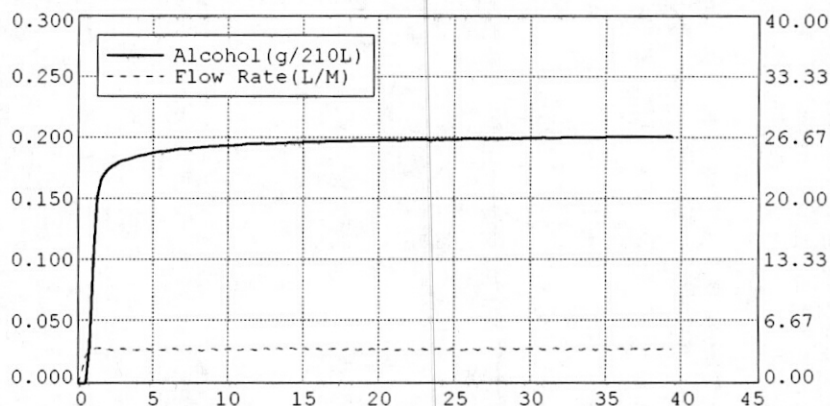
NOMINAL: 0.200

LOT #: 11120

EXPIRATION: 07/19/2013

BLANK TEST	0.000	13:10
INTERNAL STANDARD	VERIFIED	13:10
EXTERNAL STANDARD	0.201	13:10
BLANK TEST	0.000	13:11
EXTERNAL STANDARD	0.202	13:12
BLANK TEST	0.000	13:13
EXTERNAL STANDARD	0.202	13:13
BLANK TEST	0.000	13:14
EXTERNAL STANDARD	0.202	13:14
BLANK TEST	0.000	13:15
EXTERNAL STANDARD	0.202	13:16
BLANK TEST	0.000	13:17

Average = 0.2022
Std Dev = 0.0004



LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100418

Date: 08/28/2012
Time: 13:19:41

EXTERNAL STANDARD INFORMATION

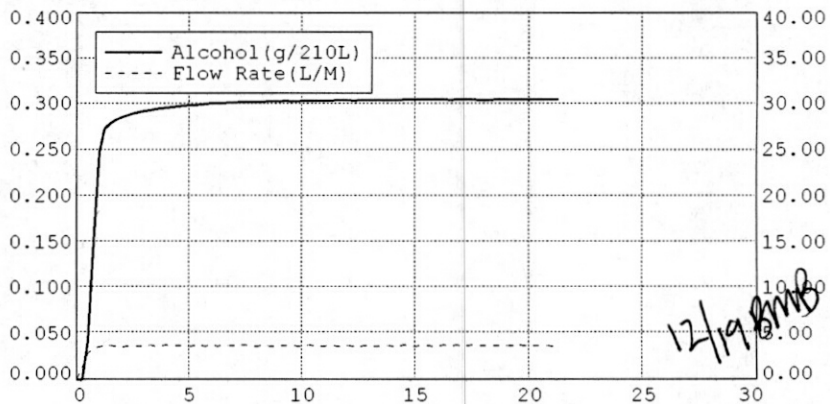
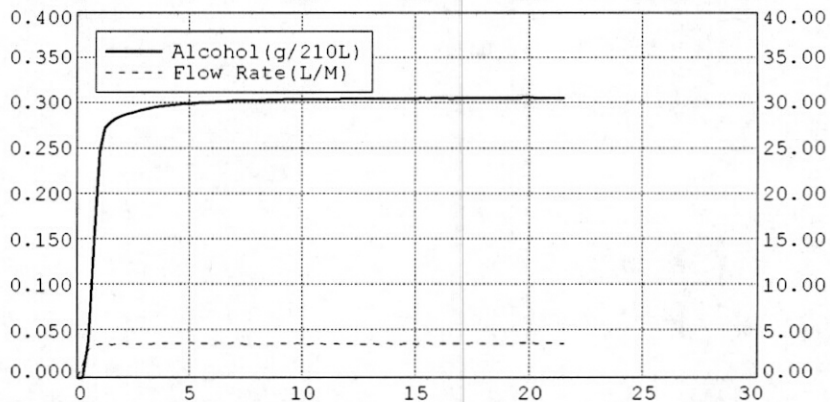
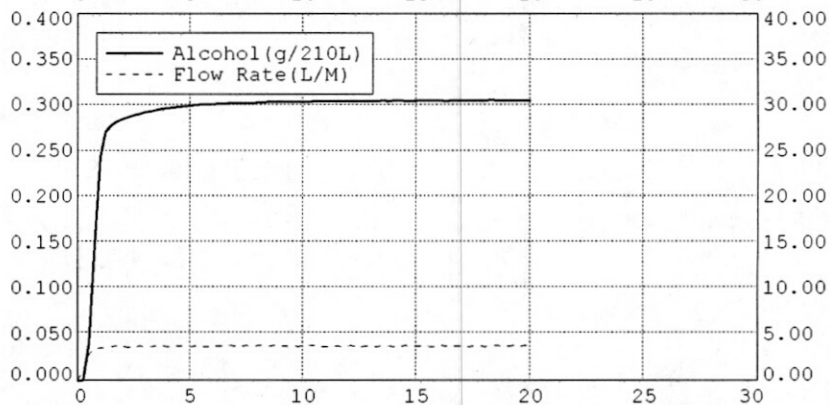
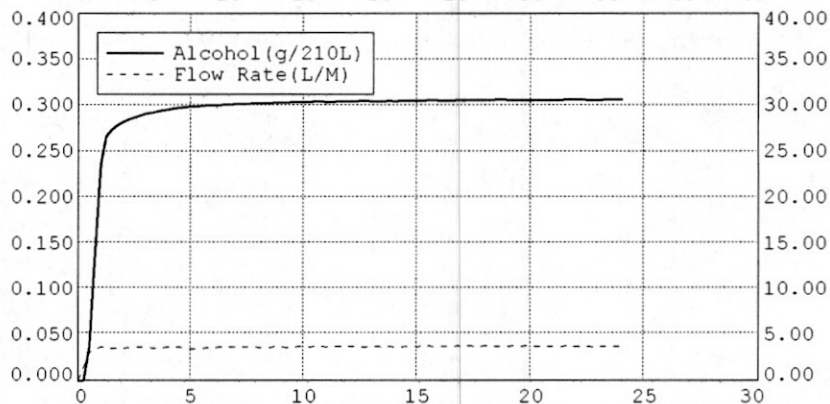
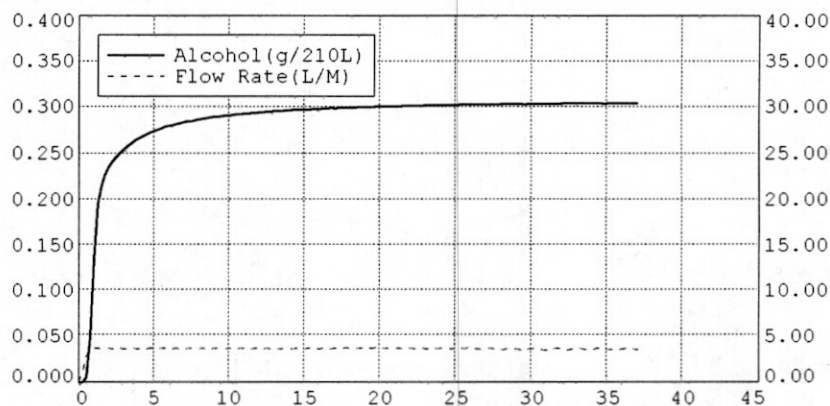
NOMINAL: 0.300

LOT #: 11110

EXPIRATION: 07/13/2013

BLANK TEST	0.000	13:20
INTERNAL STANDARD	VERIFIED	13:20
EXTERNAL STANDARD	0.304	13:21
BLANK TEST	0.000	13:22
EXTERNAL STANDARD	0.306	13:23
BLANK TEST	0.000	13:24
EXTERNAL STANDARD	0.305	13:24
BLANK TEST	0.000	13:25
EXTERNAL STANDARD	0.306	13:26
BLANK TEST	0.000	13:26
EXTERNAL STANDARD	0.305	13:27
BLANK TEST	0.000	13:28

Average = 0.3058
Std Dev = 0.0007



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100418

Date: 08/28/2012
Time: 13:32:48

SUBJECT NAME:
TEST TEST
LICENSE #: XXXX

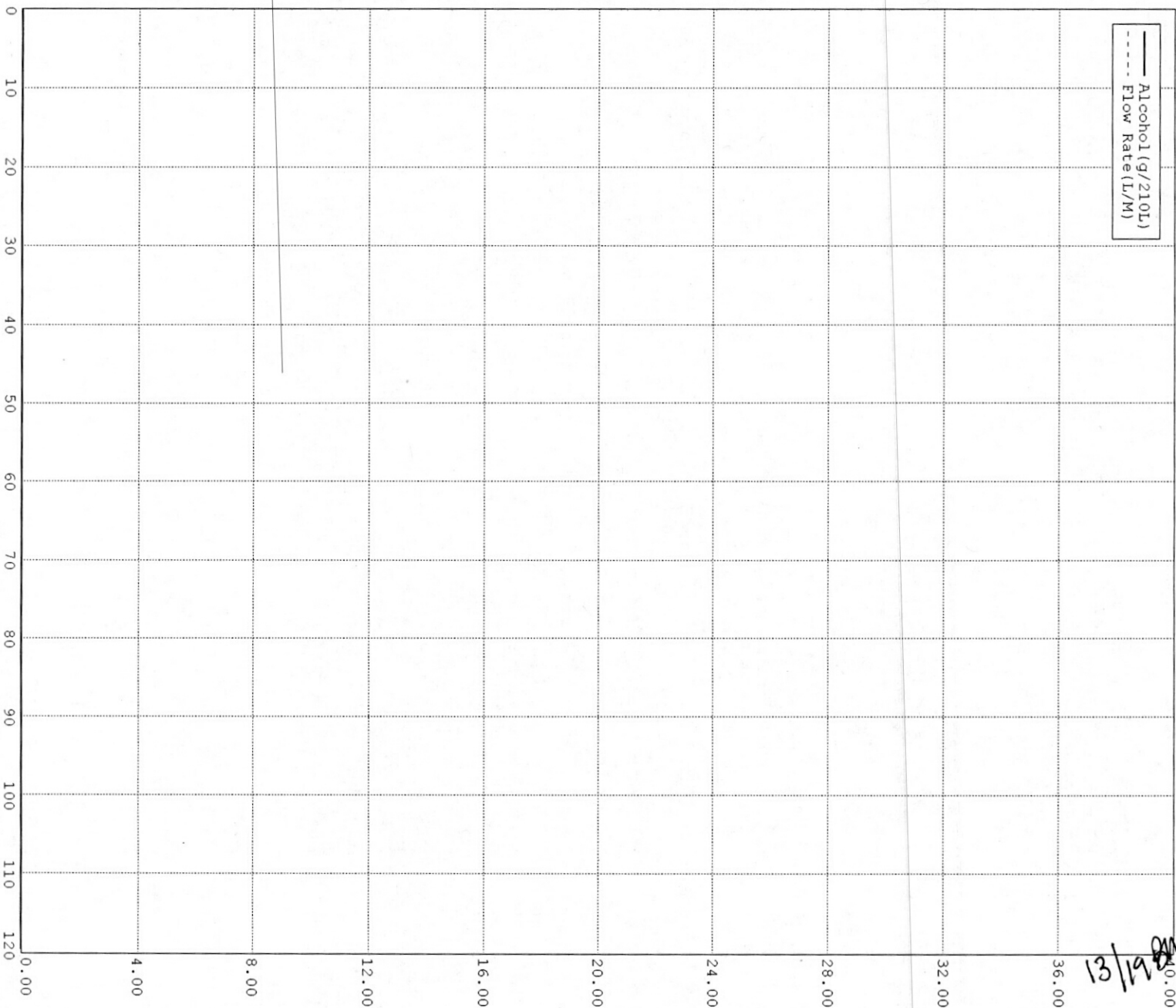
OPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.95: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	
BLANK TEST	PASSED 13:33
INTERNAL STANDARD	0.000 13:33
EXTERNAL STANDARD	VERIFIED 13:34
BLANK TEST	0.080 13:34
SUBJECT SAMPLE	0.000 13:35
	INCOMPLETE 13:37

8/11/12



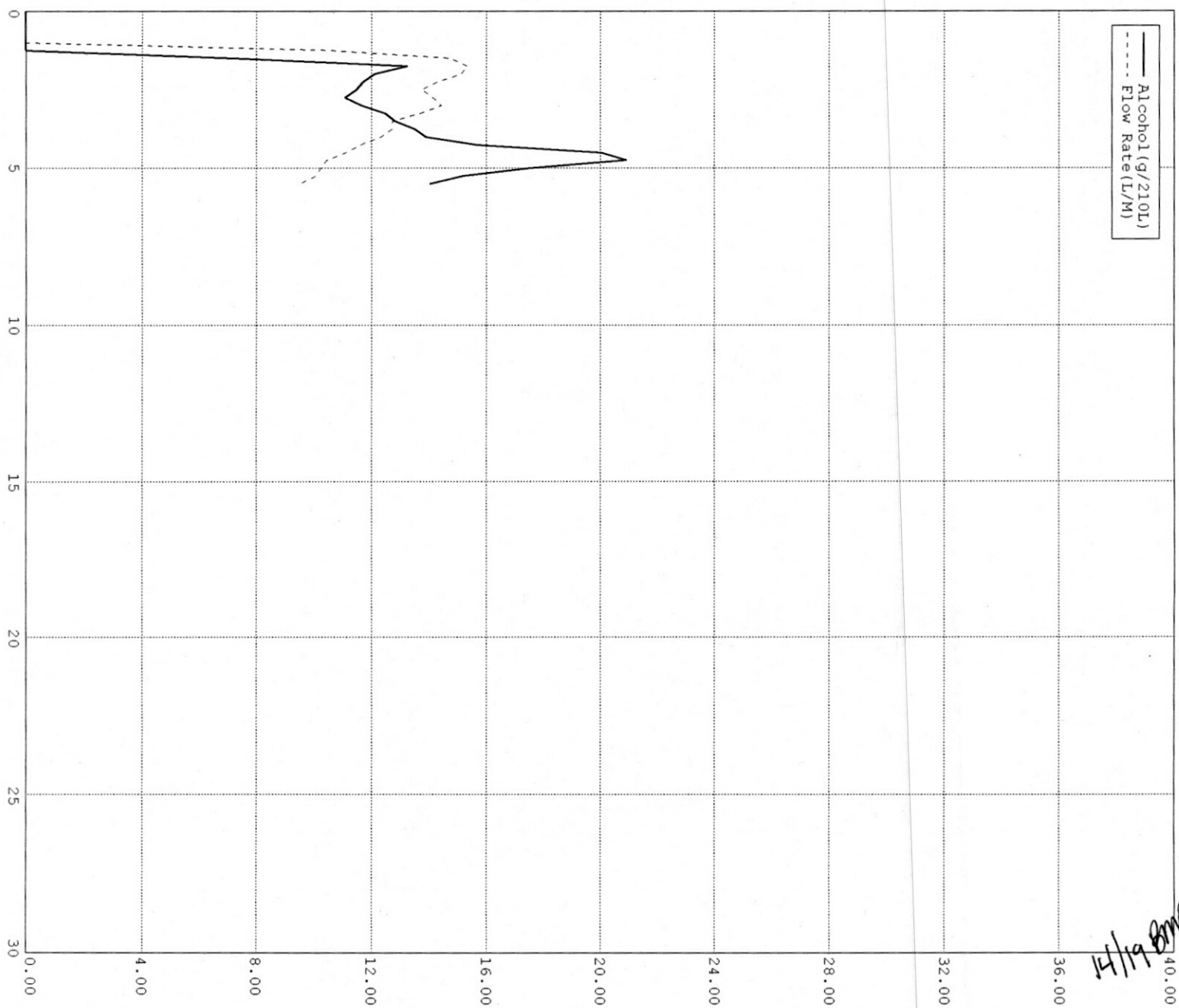
13/11/12
AMB

SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100418Date: 08/28/2012
Time: 14:15:24SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038DEPT/AGENCY:
INVALID
CASE/REPORT: MOUTH ALCOHOL
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.95: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:19
BLANK TEST	0.000	14:20
INTERNAL STANDARD	VERIFIED	14:20
EXTERNAL STANDARD	0.080	14:20
BLANK TEST	0.000	14:21
SUBJECT SAMPLE	INVALID	14:21

BMB



H/19 BMB

SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100418

Date: 08/28/2012
 Time: 13:42:58

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

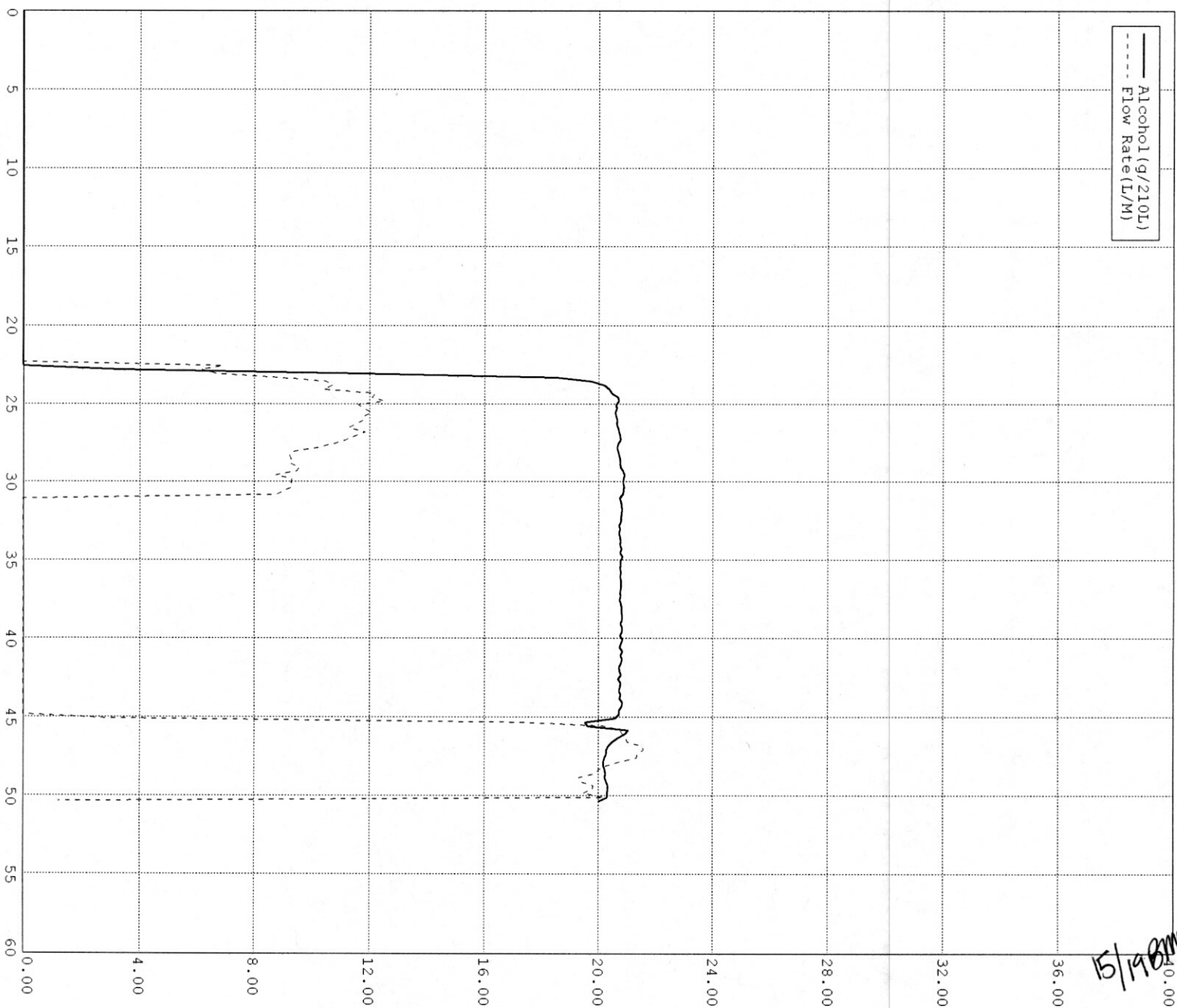
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 INTERFERENCE
 CASE/REPORT: ETOH AND ACETONE
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.96: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK		PASSED	13:44
BLANK TEST	0.000	13:44	
INTERNAL STANDARD	VERIFIED	13:44	
Xq = 0.079 (0.11%)			
EXTERNAL STANDARD	0.080	13:44	
X[1] = 0.0802 (-0.0019)	(0.0024)		
BLANK TEST	0.000	13:45	
SUBJECT SAMPLE	INTERFERENCE	13:46	
X[1] = 0.1005 (-0.0144)	(0.0007)		

Handwritten signature/initials



15/1/19 MB

SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100418

Date: 08/28/2012
 Time: 13:49:43

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

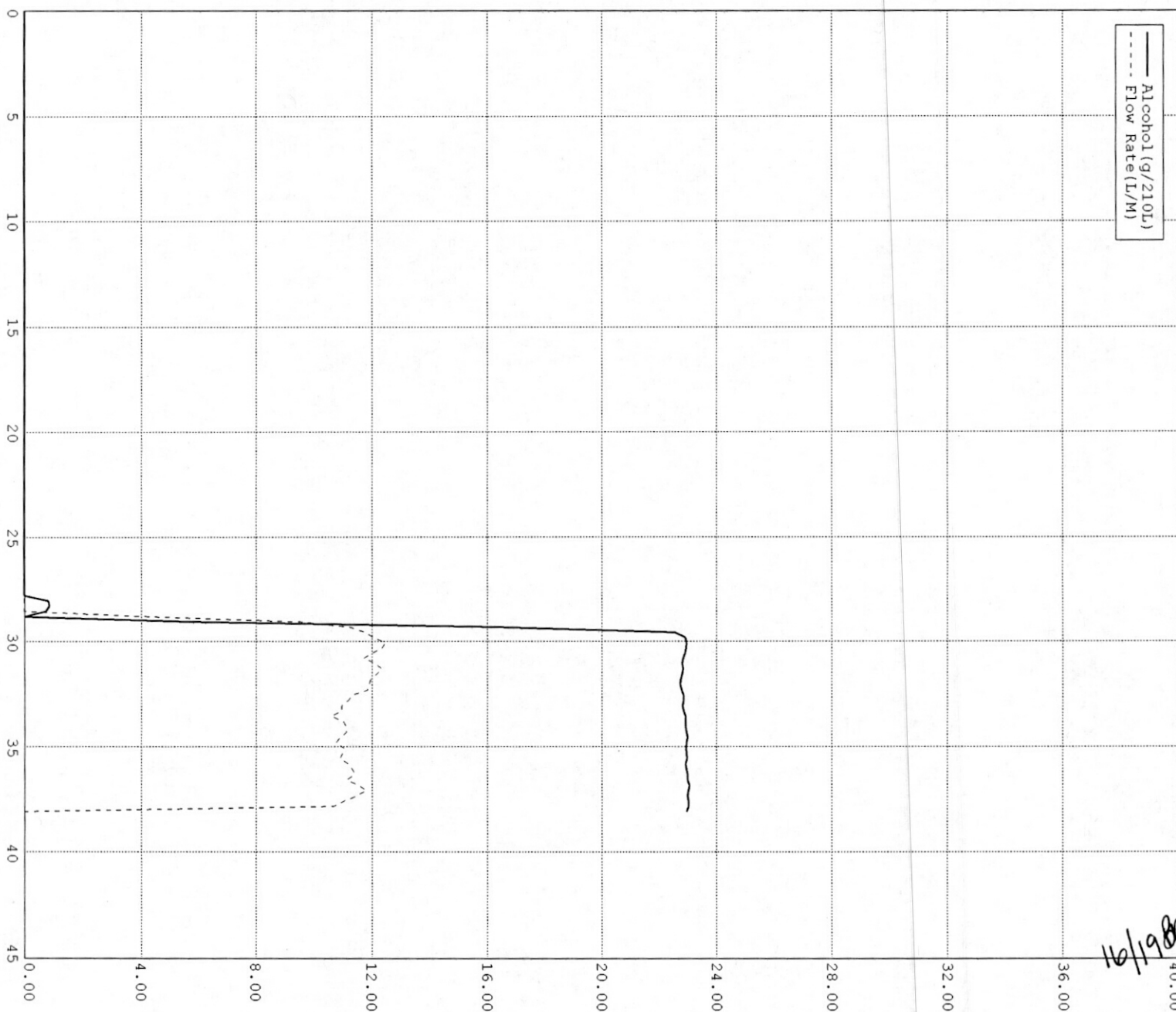
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 INTERFERENCE
 CASE/REPORT: ETOH AND IPA
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.95: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	13:52
BLANK TEST	0.000	13:52
INTERNAL STANDARD	VERIFIED	13:52
Xq = 0.079 (0.11%)		
EXTERNAL STANDARD	0.080	13:52
X[1] = 0.0800 (-0.0032)	(0.0018)	
BLANK TEST	0.000	13:53
SUBJECT SAMPLE	INTERFERENCE	13:54
X[1] = 0.1149 (-0.0261)	(0.0016)	

Handwritten signature: BMB



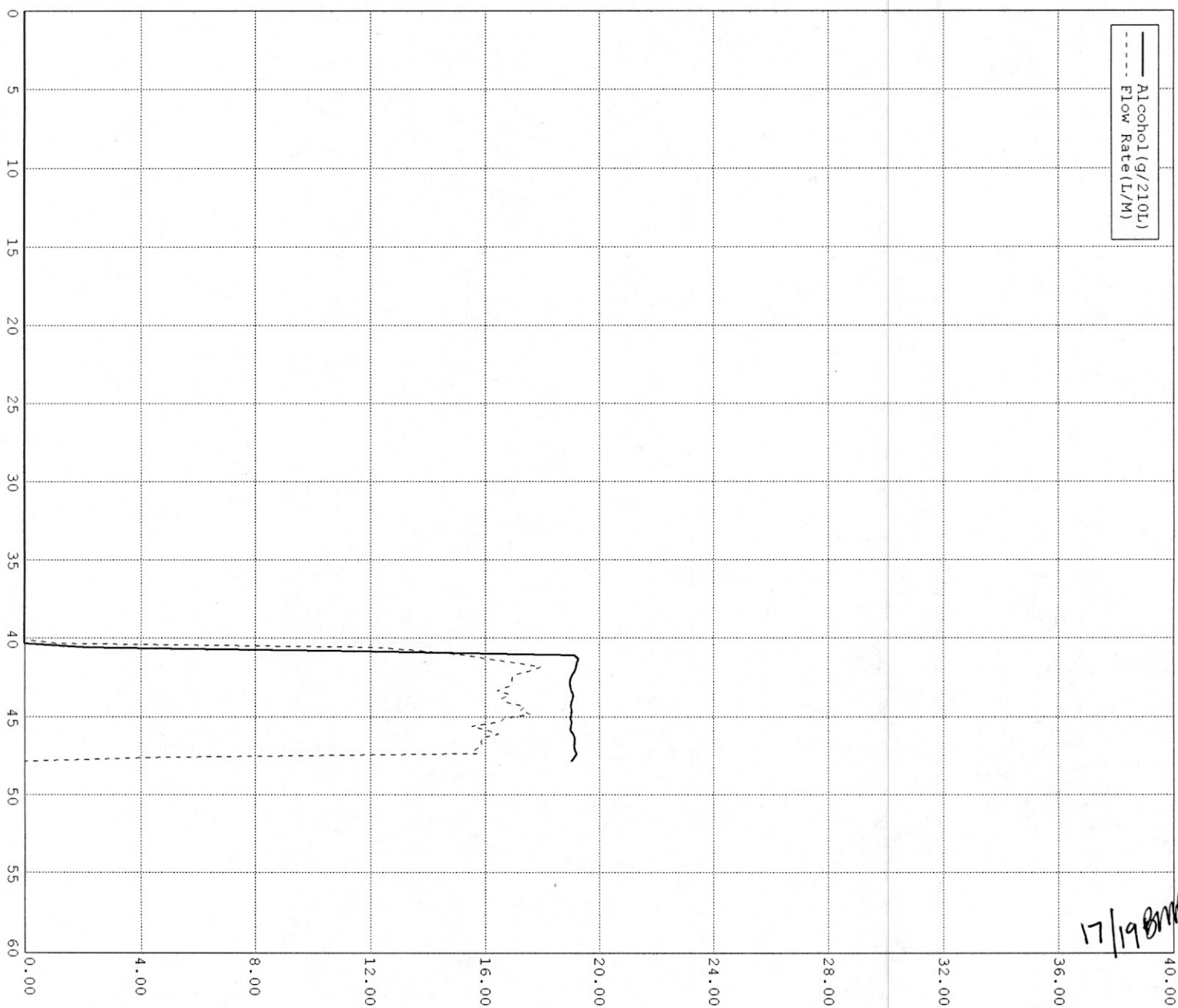
Handwritten signature: BMB
 10/19/12

SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100418Date: 08/28/2012
Time: 13:56:38SUBJECT NAME:
TEST TEST
LICENSE #: XXXXOPERATOR NAME:
BRANDI BARNETT
OPERATOR'S #: 7038DEPT/AGENCY:
INTERFERENCE
CASE/REPORT: NEGATIVE CONTROL
TEST TYPE: TESTEXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.95: 0.080
LOT #: 02012080A1
EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	
BLANK TEST	0.000	13:57
INTERNAL STANDARD	0.000	13:58
Xq = 0.080 (0.77%)	VERIFIED	13:58
EXTERNAL STANDARD	0.080	13:58
X[1] = 0.0806 (-0.0020)	(0.0021)	
BLANK TEST	0.000	13:59
SUBJECT SAMPLE (Vol=1.92L)	0.095	14:00
X[1] = 0.0953 (-0.0009)	(0.0003)	
BLANK TEST	0.000	14:01
EXTERNAL STANDARD	0.080	14:01
X[1] = 0.0801 (-0.0021)	(0.0015)	
BLANK TEST	0.000	14:02

BMB



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SUBJECT TEST

 Alaska Department of Public Safety
 DATAMASTER dmt: 100418

Date: 08/28/2012
 Time: 14:23:43

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

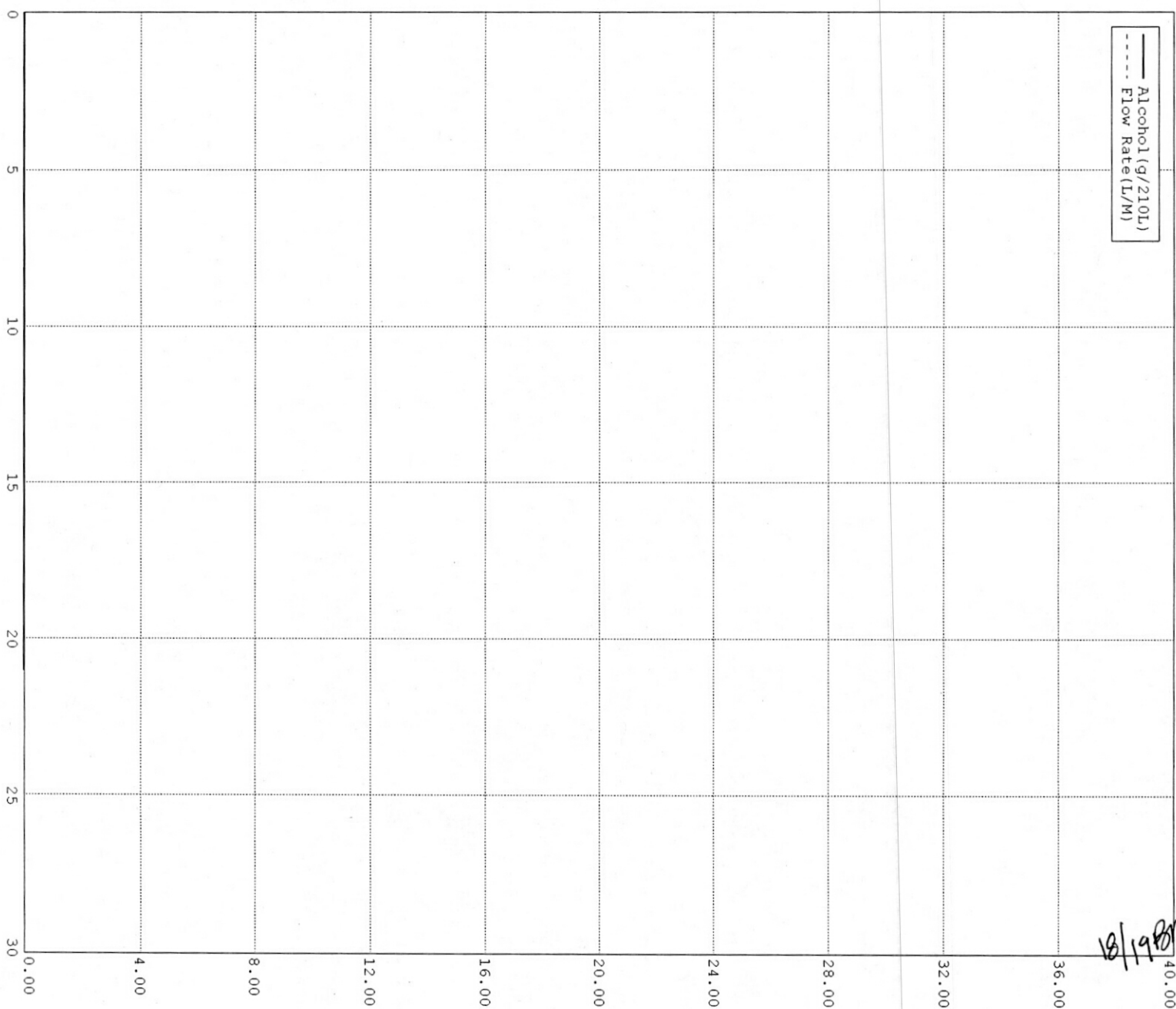
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

DEPT/AGENCY:
 RADIO FREQUENCY INTERFERENCE
 CASE/REPORT: XXXX
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.95: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:26
BLANK TEST	0.000	14:26
INTERNAL STANDARD	VERIFIED	14:26
EXTERNAL STANDARD	0.081	14:26
BLANK TEST	0.000	14:27

RFI DETECTED



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100418

Date: 08/28/2012
 Time: 14:39:16

SUBJECT NAME:
 TEST TEST
 LICENSE #: XXXX

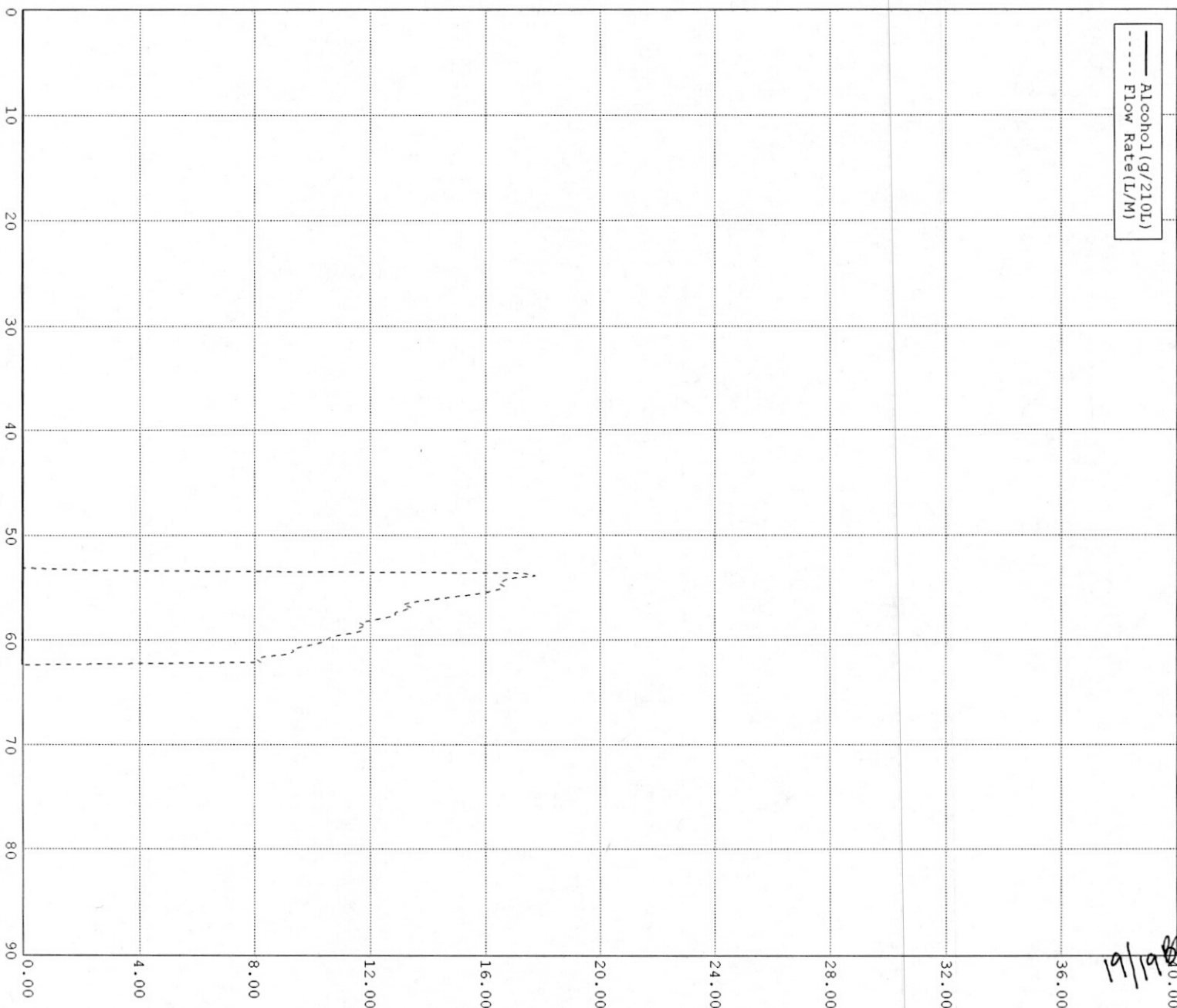
OPERATOR NAME:
 BRANDI BARNETT
 OPERATOR'S #: 7038

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

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.95: 0.080
 LOT #: 02012080A1
 EXPIRATION: 03/01/2014

DIAGNOSTIC CHECK	PASSED	14:40
BLANK TEST	0.000	14:41
INTERNAL STANDARD	VERIFIED	14:41
EXTERNAL STANDARD	0.080	14:41
BLANK TEST	0.000	14:42
SUBJECT SAMPLE	0.000	14:43
BLANK TEST	0.000	14:44
EXTERNAL STANDARD	0.080	14:44
BLANK TEST	0.000	14:45

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Final page for report

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