

Alaska Scientific Crime Detection Laboratory

DataMaster Certification Form

Issued: 04/04/2012

Version: DMCEF2012 R1

Effective: 04/04/2012

Status: Active

Instrument S/N 100347 Analyst C. Bryant Start Date 4/5/12Diagnostic 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 1400 mL (1.3L to 1.7L) ☒

4. Linearity Test (attached)

a. Levels Used ☒i. 0.020g/210L Mnf ILMO Lot 07611020A5 Exp 03/01/2013ii. 0.040g/210L Mnf ILMO Lot 07611040A4 Exp 03/01/2013iii. 0.080g/210L Mnf ILMO Lot 07511080A1 Exp 03/01/2013iv. 0.100g/210L Mnf ILMO Lot 07611100A3 Exp 03/01/2013v. 0.200g/210L Mnf Guth Lot 11120 Exp 07/13/20131. Simulator S/N SD1176 Date Calibrated 08/17/2011vi. 0.300g/210L Mnf Guth Lot 11110 Exp 07/13/20131. Simulator S/N DR4176 Date Calibrated 02/21/2012

5. Functional Tests (attached)

a. Incomplete ☒b. Invalid ☒c. Interference ☒i. Acetone - Mnf Guth Lot 11200 Level 0.080 Exp 10/11/20131. Simulator S/N SD1199 Date Calibrated 01/11/2012ii. Isopropanol - Mnf Guth Lot 10280 Level 0.080 Exp 11/17/20121. Simulator S/N DR6267 Date Calibrated 01/10/2012iii. Negative Control - Mnf Guth Lot 11250 Level 0.100 Exp 12/06/20131. Simulator S/N SD1202 Date Calibrated 08/17/2011d. 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 4/5/12

DIAGNOSTIC RECORD

Alaska Department of Public Safety
DATAMASTER dmt: 100347

Date: 04/05/2012
Time: 11:10:27

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 = 5.405 L/M	PASSED
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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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032/19

Technician Screen

DATAMASTER dmt: 100347

Date: 04/05/2012

Time: 11:17 AM

Temperatures (°C)

Sample Cell: 48.9°C

Breath Tube: 47.2°C

Current Barometer 29.9 in

Volume (Ltr) 1.60

Settings

Lamp: 2.33 V

Bias: 80 V

Cooler: 2.03 V

Chopper: 541 Hz

Voltages (V)

Flow: 1.05 V

Detector: 0.078 V

08/3/19

CALIBRATION FACTORS

Alaska Department of Public Safety
DATAMASTER dmt: 100347

Date: 03/22/2011
Time: 14:26:48

OPERATOR NAME:
CHARLES FOSTER
CERTIFICATE #: 7734

LOT #: GUTH100
BOTTLE #: 9380
EXPIRATION: 12/17/2011

Ca	=	0.1000		
CAL	=	0.967916	0.800	<= CAL < 1.200
b1	=	0.0002	0.0000	<= b1 < 0.0040
b2	=	0.0053	0.0010	<= b2 < 0.0100
b3	=	0.0000	0.0000	<= b3 < 0.0040
Xq	=	0.0921	0.0500	<= Xq < 0.2000
a21	=	1.175203	1.050	<= a21 < 1.300
a31	=	0.445516	0.300	<= a31 < 0.800

COB 4/19

SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100347

Date: 04/05/2012
 Time: 11:18:07

SUBJECT NAME:
 TEST TEST
 LICENSE #: VOLUME TEST

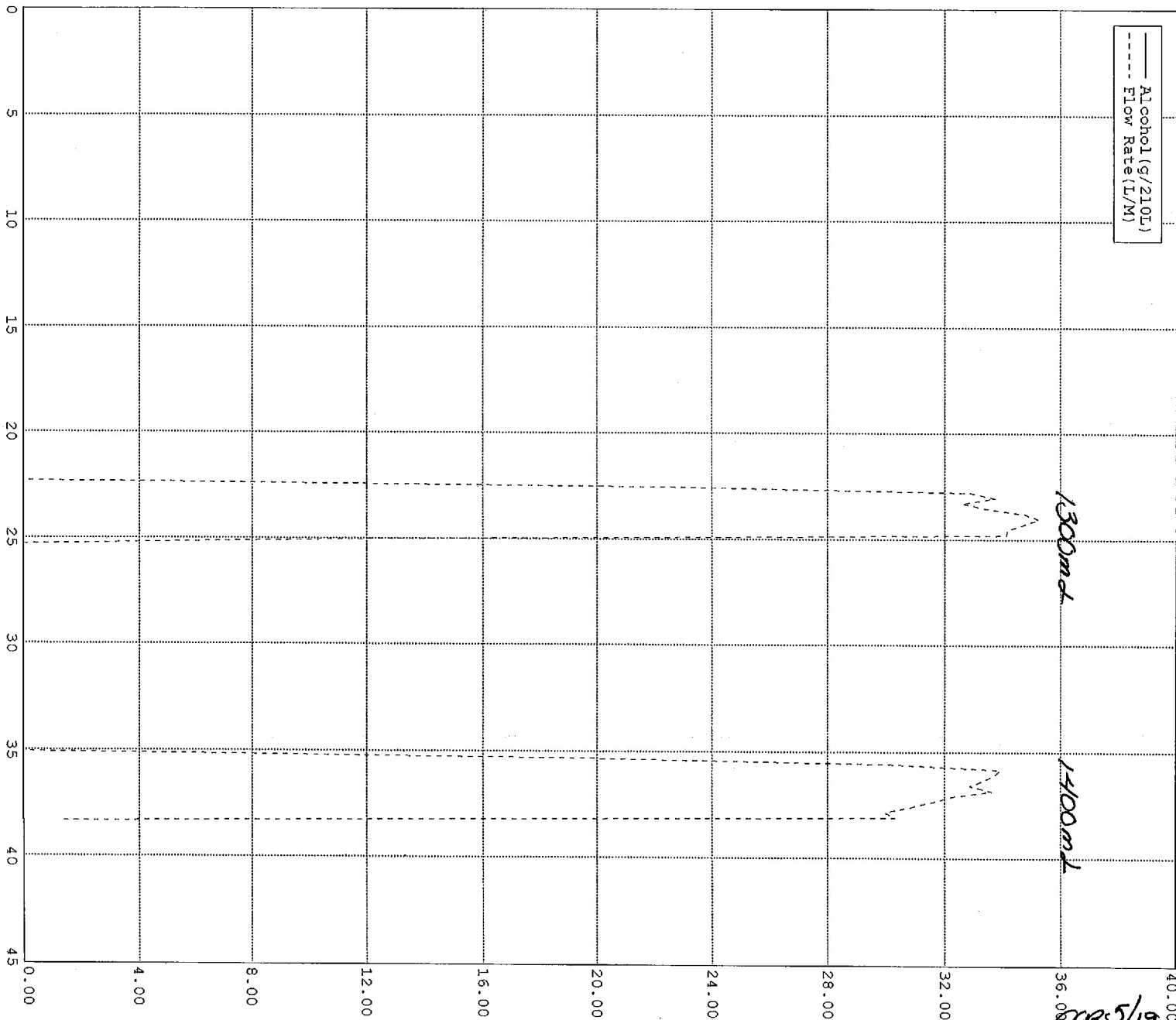
OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AA1
 CASE/REPORT: 12-1234
 TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
 NOMINAL: 0.080
 TARGET AT 29.84: 0.079
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	11:19
BLANK TEST	0.000	11:19
INTERNAL STANDARD	VERIFIED	11:19
EXTERNAL STANDARD	0.078	11:19
BLANK TEST	0.000	11:20
SUBJECT SAMPLE	0.000	11:21
BLANK TEST	0.000	11:22
EXTERNAL STANDARD	0.078	11:22
BLANK TEST	0.000	11:23

COB



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LINEARITY CHECK

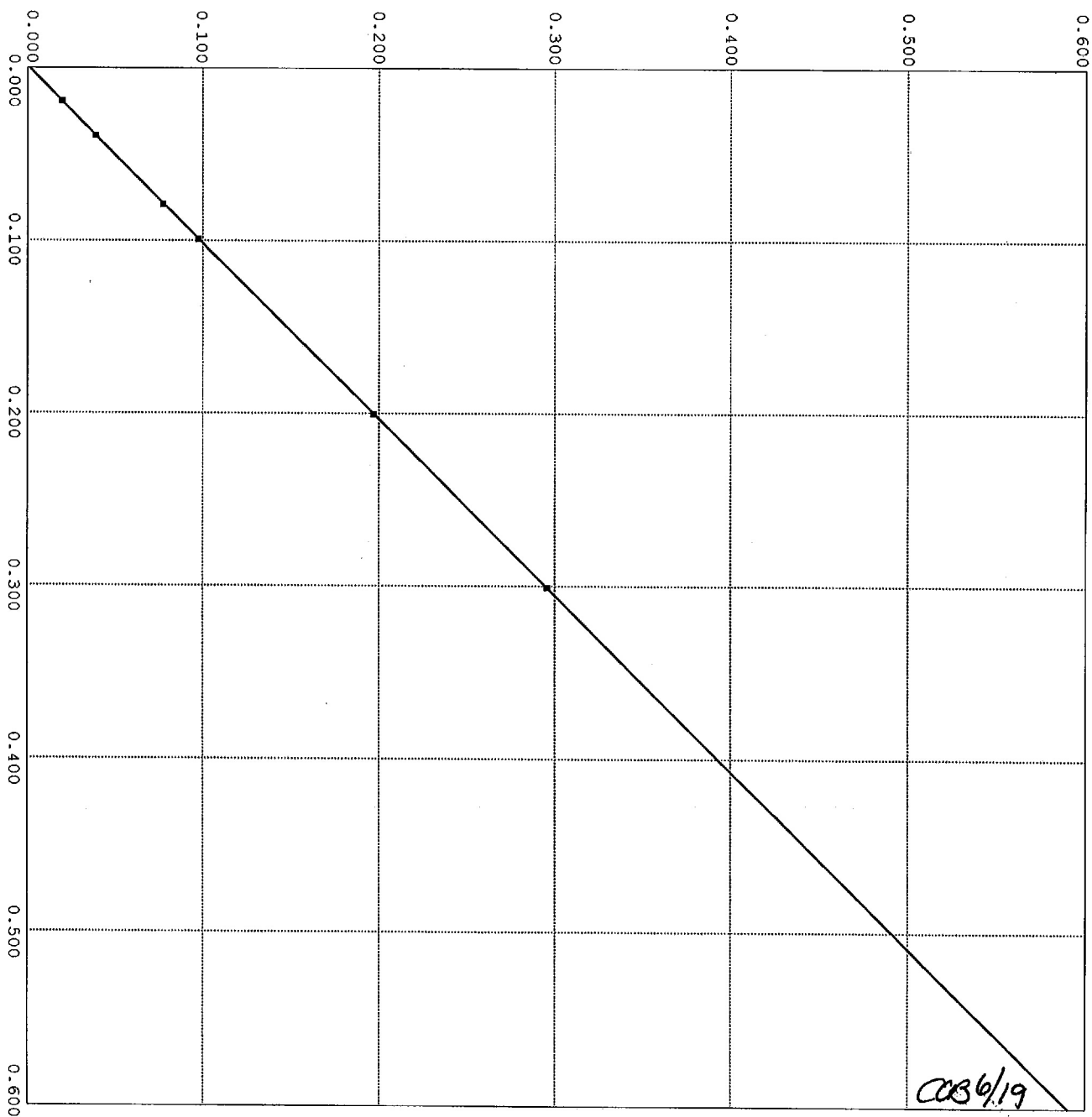
Alaska Department of Public Safety
 DATAMASTER dmt: 100347

Date: 04/05/2012
 Time: 11:25:27

SUPERVISOR NAME:
 COLLEEN S O'BRYAN
 OPERATOR'S #: 6237

TARGET	AVERAGE	STD. DEV.
0.019	0.0205	0.0003
0.039	0.0398	0.0002
0.079	0.0783	0.0002
0.099	0.0985	0.0002
0.200	0.1977	0.0004
0.300	0.2962	0.0008

SLOPE = 0.982201
 R^2 = 0.999987



CS

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt; 100347

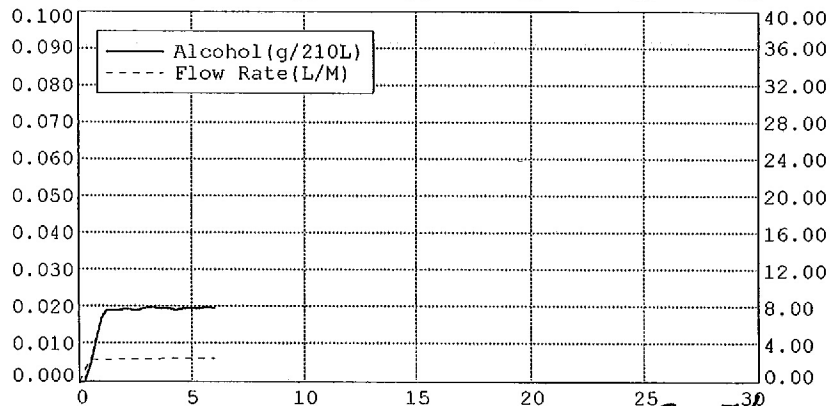
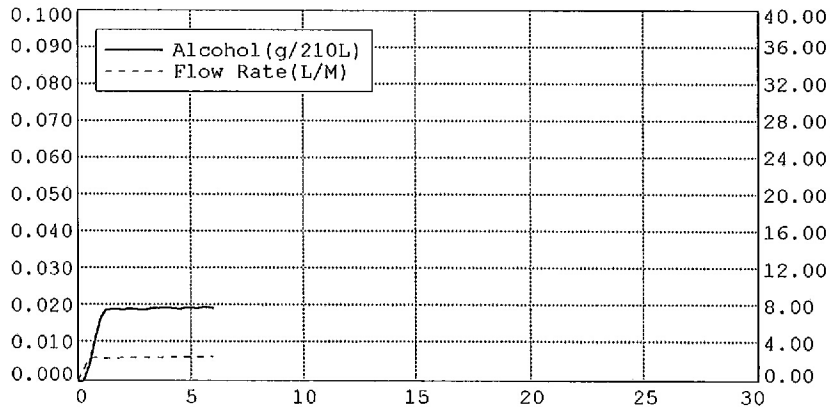
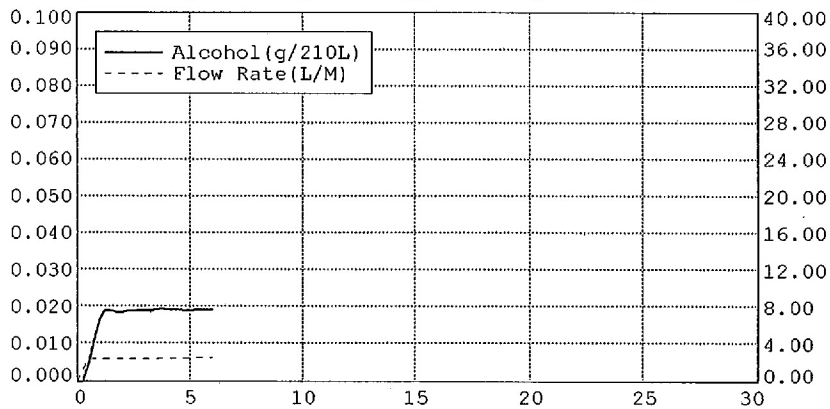
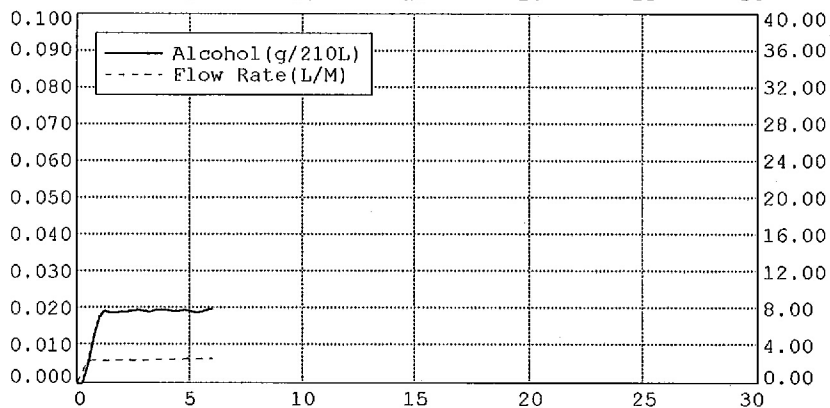
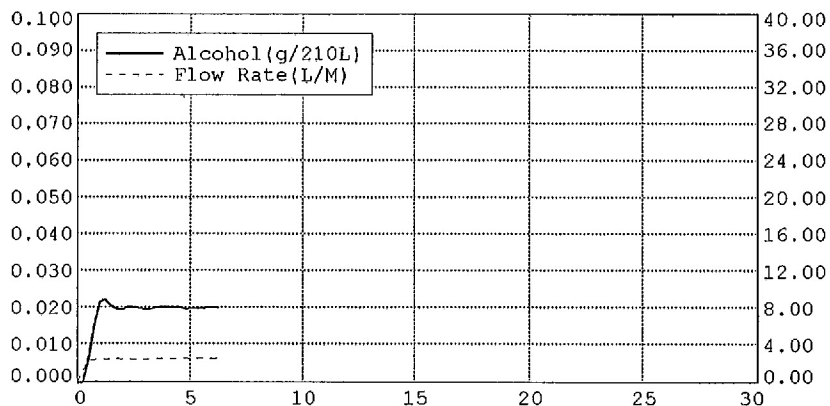
Date: 04/05/2012
Time: 11:25:28

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.86: 0.019
LOT #: 07611020A5
EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:31
INTERNAL STANDARD	VERIFIED	11:31
EXTERNAL STANDARD	0.020	11:31
BLANK TEST	0.000	11:32
EXTERNAL STANDARD	0.020	11:32
BLANK TEST	0.000	11:33
EXTERNAL STANDARD	0.020	11:33
BLANK TEST	0.000	11:34
EXTERNAL STANDARD	0.020	11:34
BLANK TEST	0.000	11:35
EXTERNAL STANDARD	0.020	11:35
BLANK TEST	0.000	11:36

Average = 0.0205
Std Dev = 0.0003



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LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100347

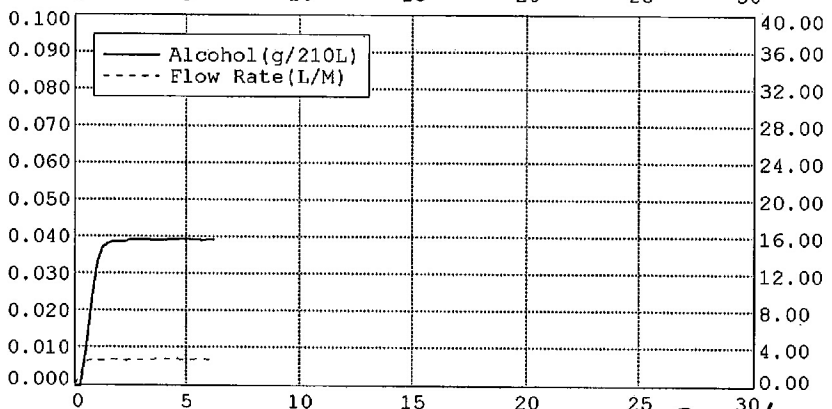
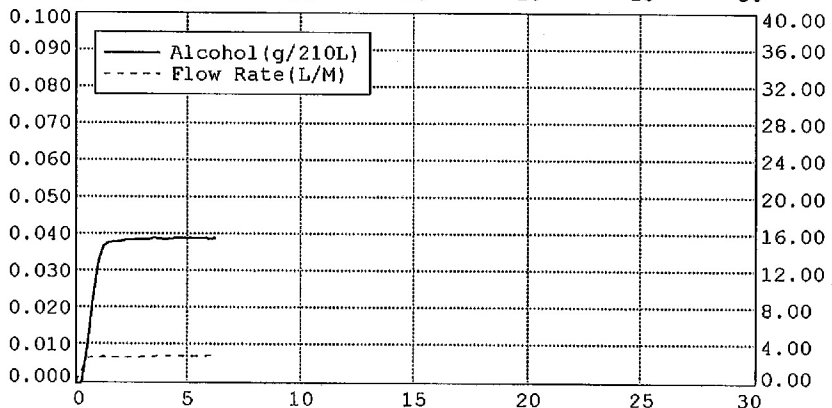
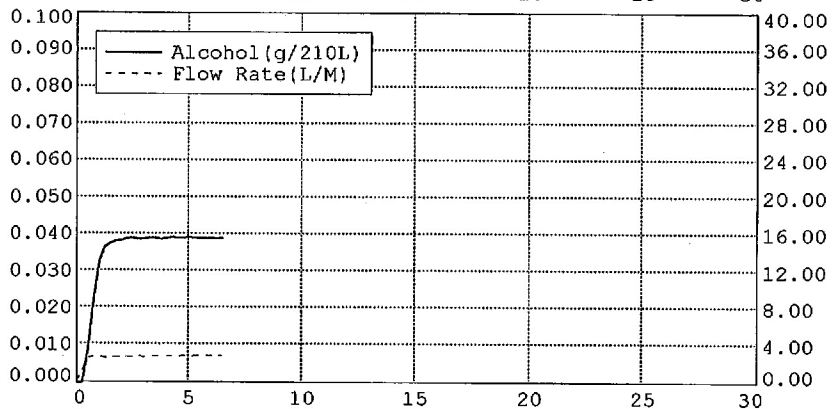
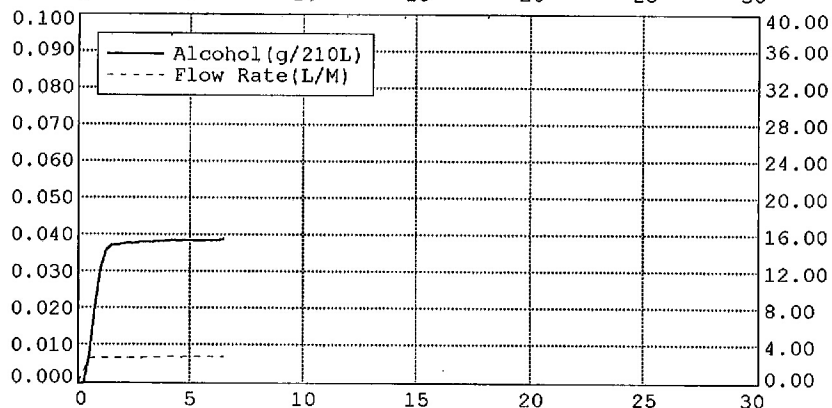
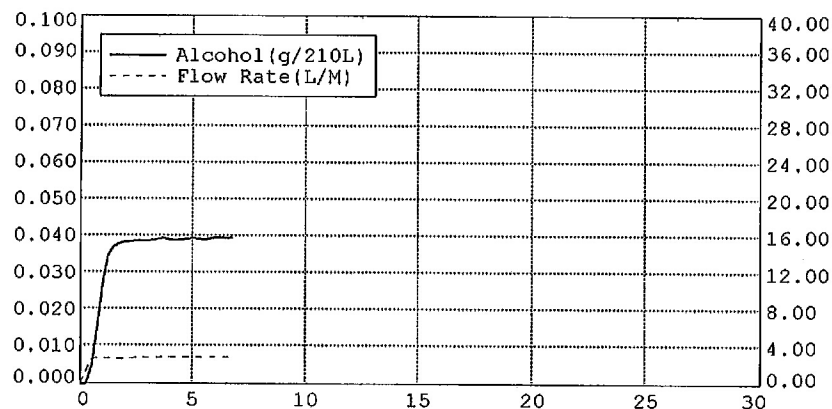
Date: 04/05/2012
Time: 11:41:45

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.040
TARGET AT 29.86: 0.039
LOT #: 07611040A4
EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:42
INTERNAL STANDARD	VERIFIED	11:42
EXTERNAL STANDARD	0.039	11:43
BLANK TEST	0.000	11:44
EXTERNAL STANDARD	0.039	11:44
BLANK TEST	0.000	11:45
EXTERNAL STANDARD	0.039	11:45
BLANK TEST	0.000	11:46
EXTERNAL STANDARD	0.039	11:46
BLANK TEST	0.000	11:47
EXTERNAL STANDARD	0.040	11:47
BLANK TEST	0.000	11:48

Average = 0.0398
Std Dev = 0.0002



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100347

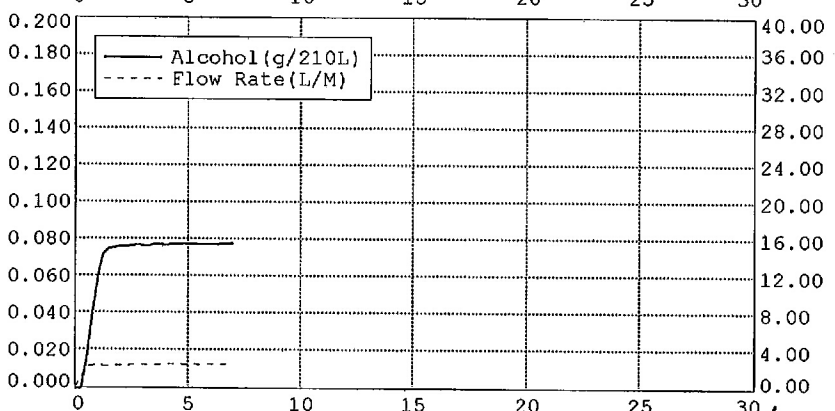
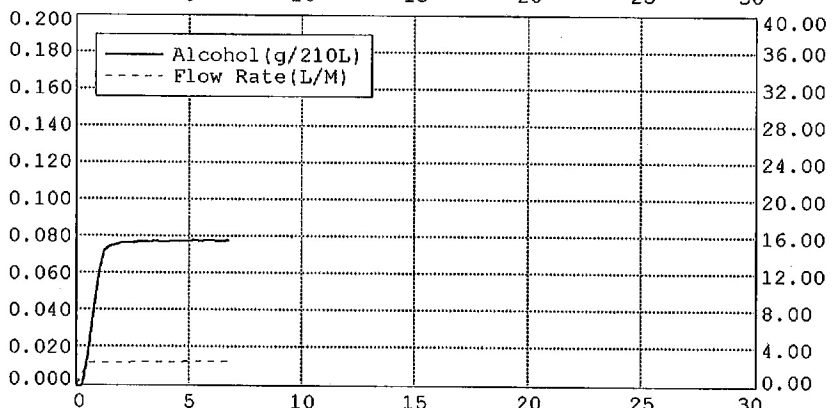
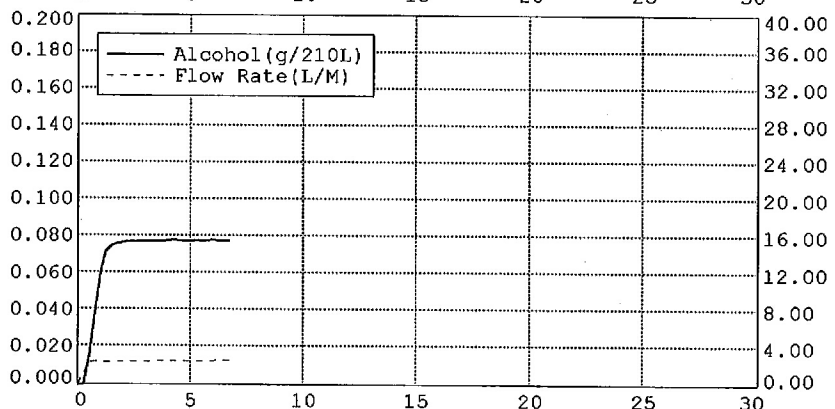
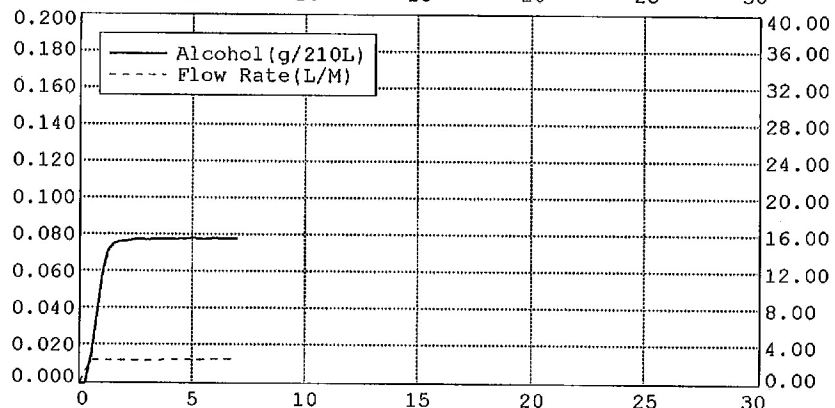
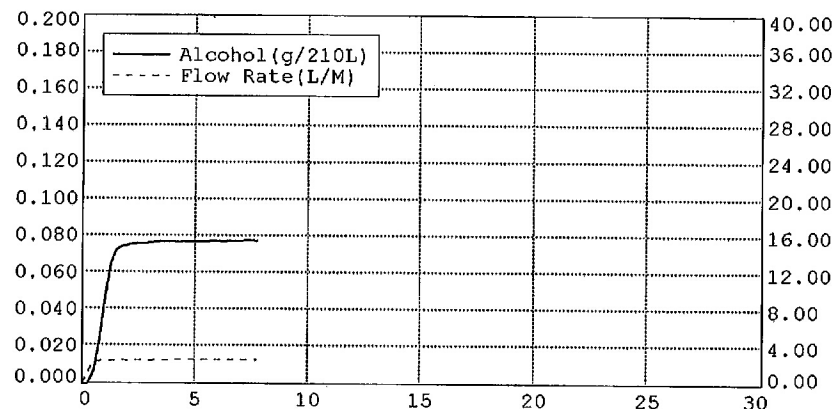
Date: 04/05/2012
Time: 11:48:55

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.87: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:50
INTERNAL STANDARD	VERIFIED	11:50
EXTERNAL STANDARD	0.078	11:50
BLANK TEST	0.000	11:51
EXTERNAL STANDARD	0.078	11:51
BLANK TEST	0.000	11:52
EXTERNAL STANDARD	0.078	11:52
BLANK TEST	0.000	11:53
EXTERNAL STANDARD	0.078	11:53
BLANK TEST	0.000	11:54
EXTERNAL STANDARD	0.078	11:54
BLANK TEST	0.000	11:55

Average = 0.0783
Std Dev = 0.0002



LINEARITY CHECK: Control Test 4

Alaska Department of Public Safety
DATAMASTER dmt: 100347

Date: 04/05/2012

Time: 11:57:11

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.100

TARGET AT 29.86: 0.099

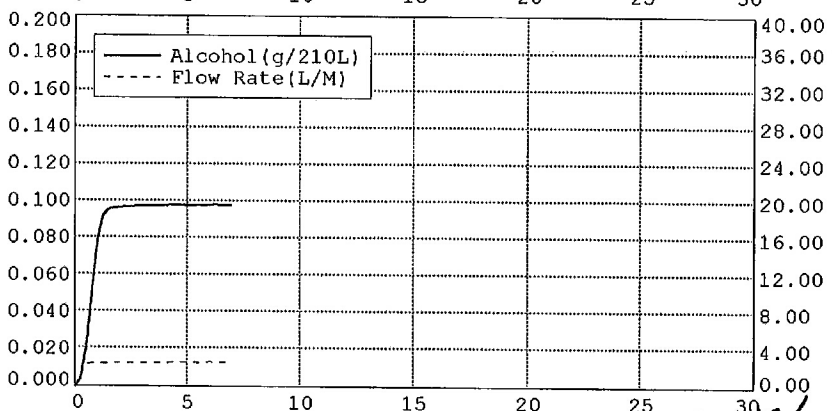
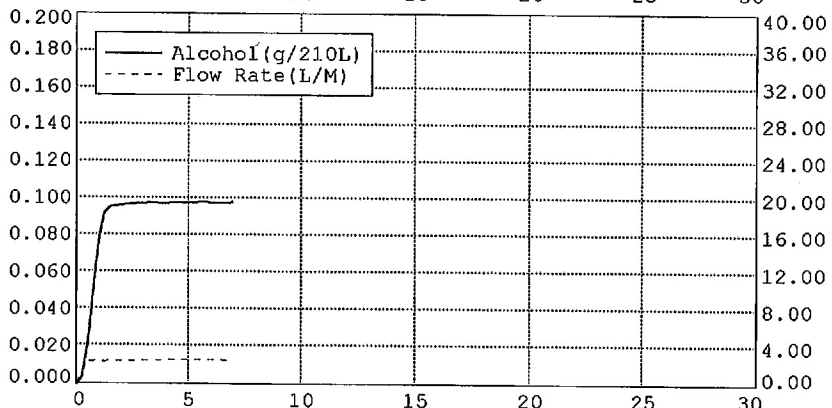
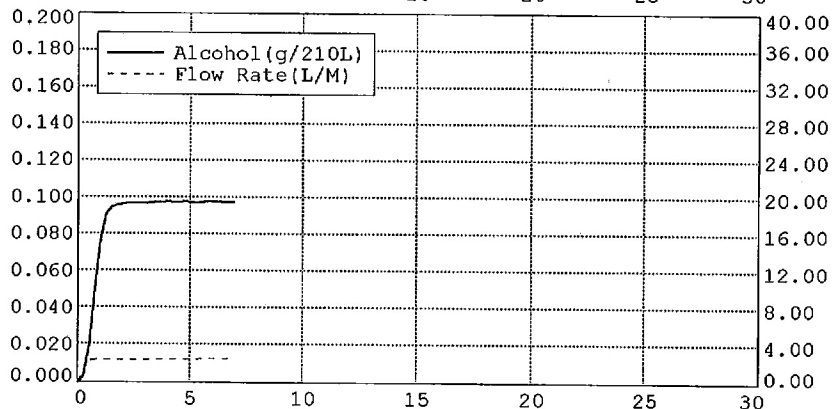
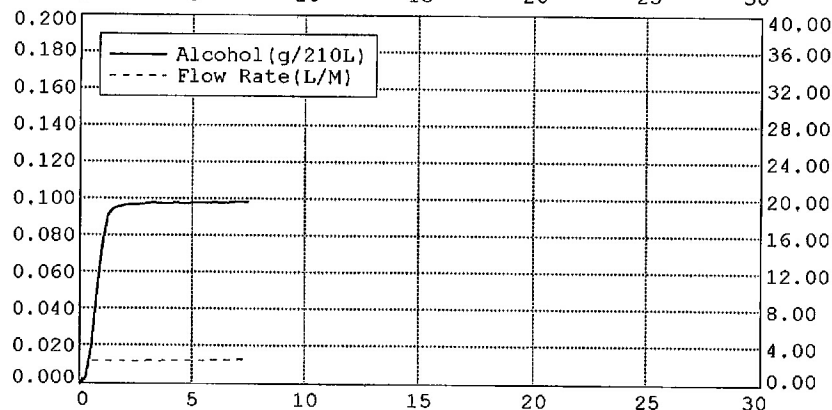
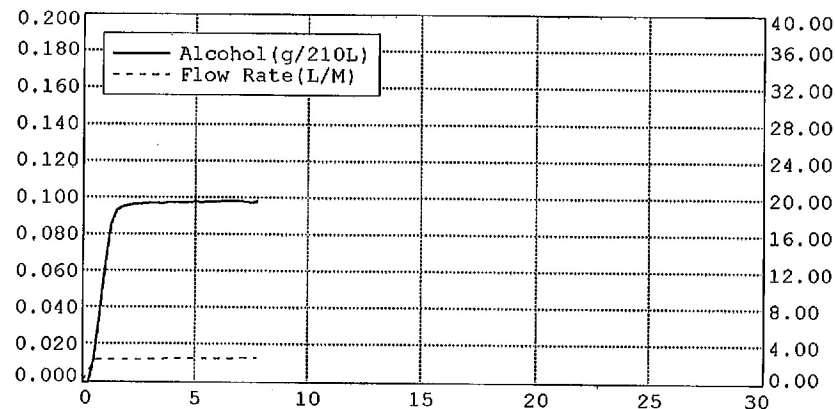
LOT #: 07611100A3

EXPIRATION: 03/01/2013

BLANK TEST	0.000	11:58
INTERNAL STANDARD	VERIFIED	11:58
EXTERNAL STANDARD	0.098	11:58
BLANK TEST	0.000	11:59
EXTERNAL STANDARD	0.098	11:59
BLANK TEST	0.000	12:00
EXTERNAL STANDARD	0.098	12:00
BLANK TEST	0.000	12:01
EXTERNAL STANDARD	0.098	12:02
BLANK TEST	0.000	12:02
EXTERNAL STANDARD	0.098	12:03
BLANK TEST	0.000	12:04

Average = 0.0985

Std Dev = 0.0002



LINEARITY CHECK: Control Test 5

Alaska Department of Public Safety
DATAMASTER dmt: 100347

Date: 04/05/2012
Time: 12:04:51

EXTERNAL STANDARD INFORMATION

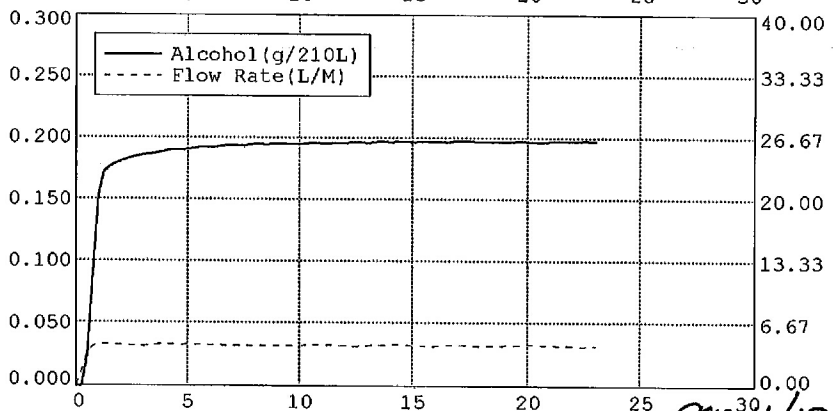
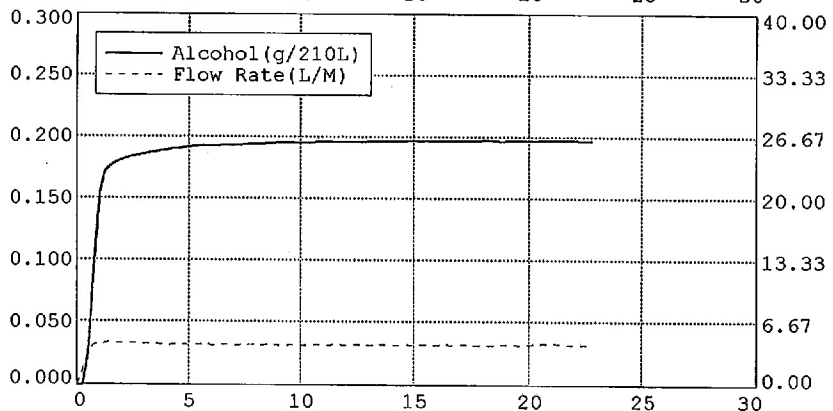
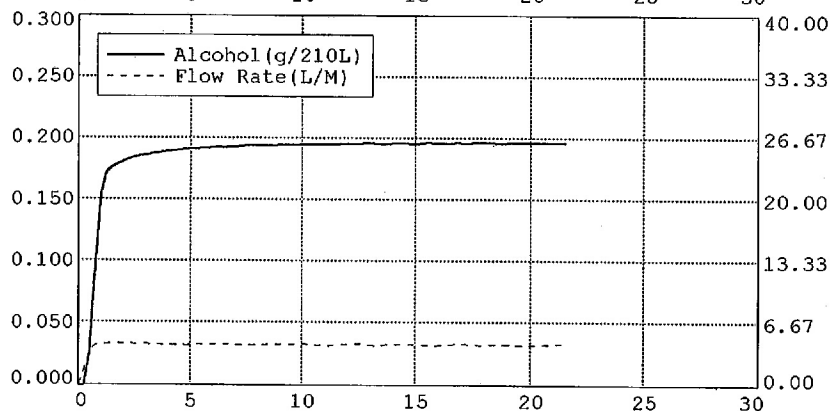
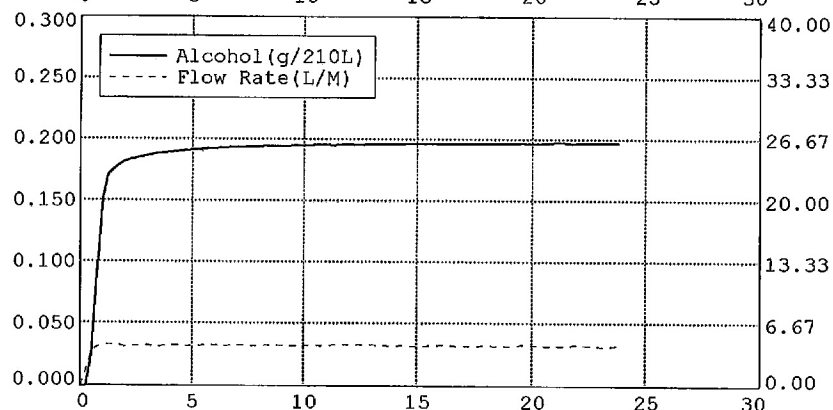
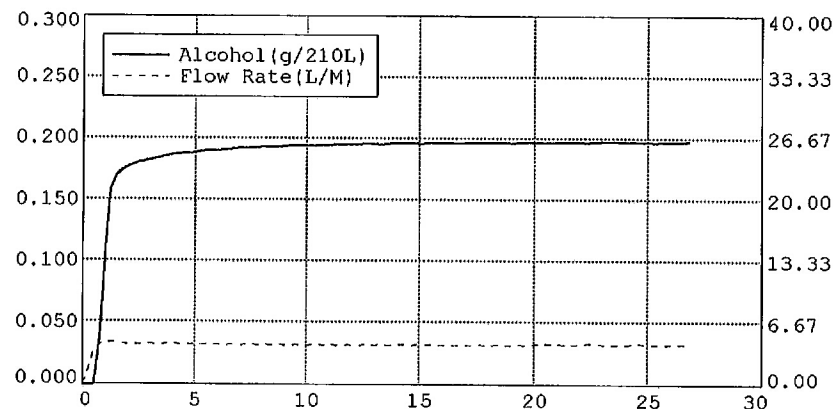
NOMINAL: 0.200

LOT #: 11120

EXPIRATION: 07/19/2013

BLANK TEST	0.000	12:06
INTERNAL STANDARD	VERIFIED	12:06
EXTERNAL STANDARD	0.197	12:06
BLANK TEST	0.000	12:07
EXTERNAL STANDARD	0.197	12:08
BLANK TEST	0.000	12:09
EXTERNAL STANDARD	0.197	12:09
BLANK TEST	0.000	12:10
EXTERNAL STANDARD	0.197	12:10
BLANK TEST	0.000	12:11
EXTERNAL STANDARD	0.198	12:12
BLANK TEST	0.000	12:13

Average = 0.1977
Std Dev = 0.0004



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LINEARITY CHECK: Control Test 6

Alaska Department of Public Safety
DATAMASTER dmt: 100347

Date: 04/05/2012

Time: 12:14:26

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300

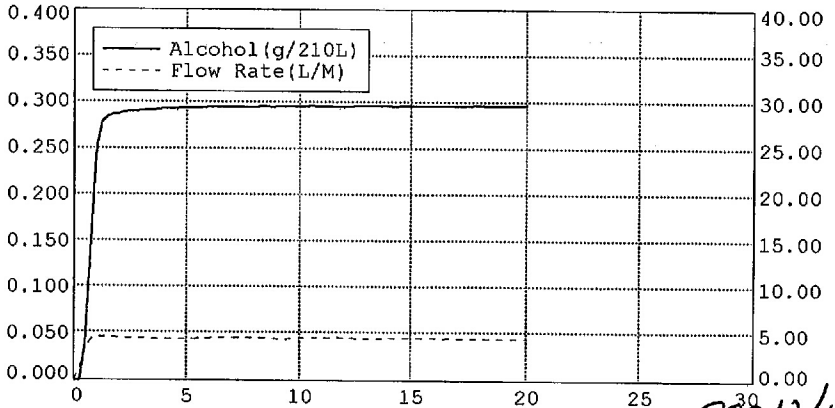
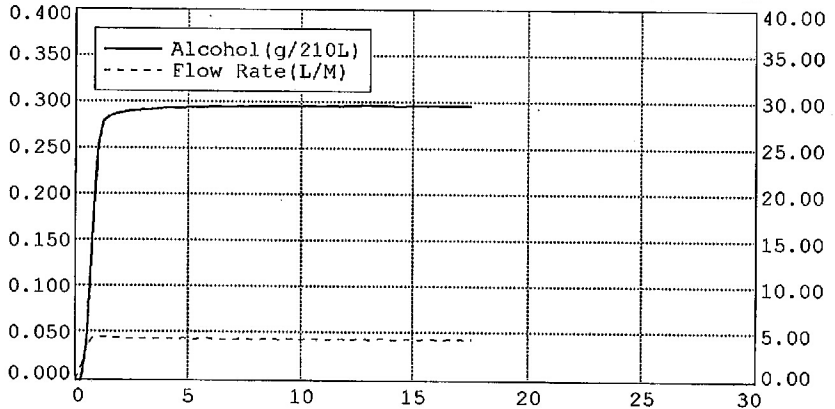
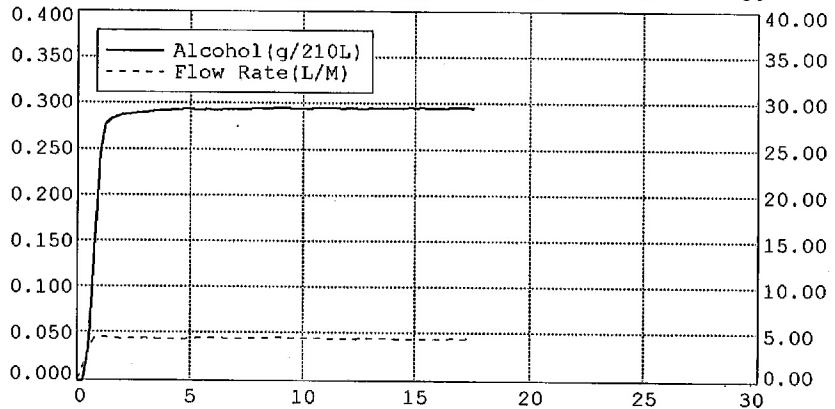
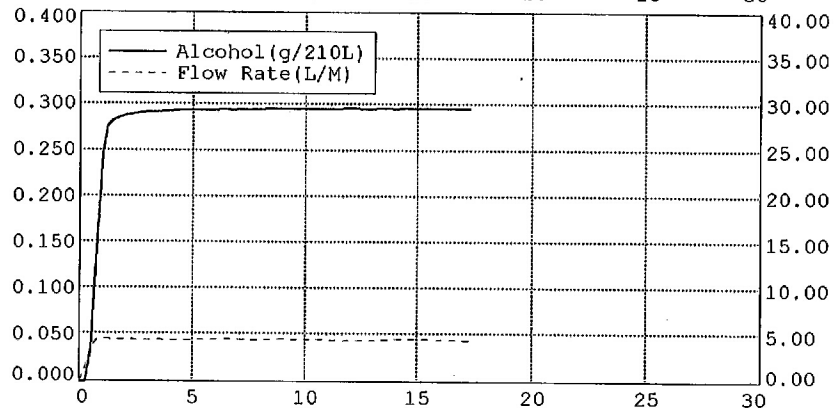
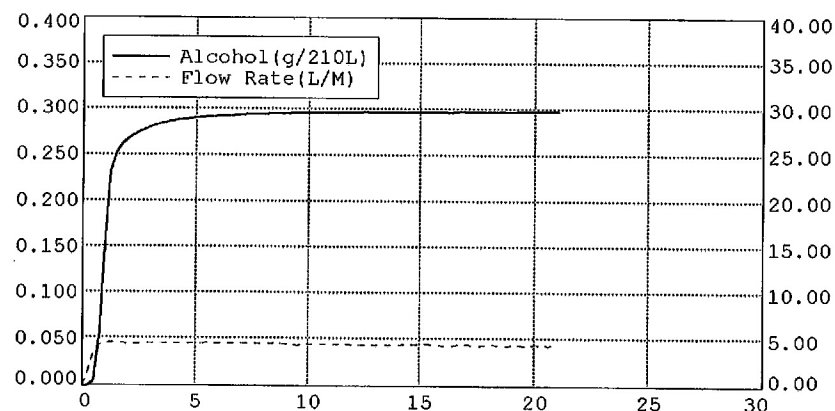
LOT #: 11110

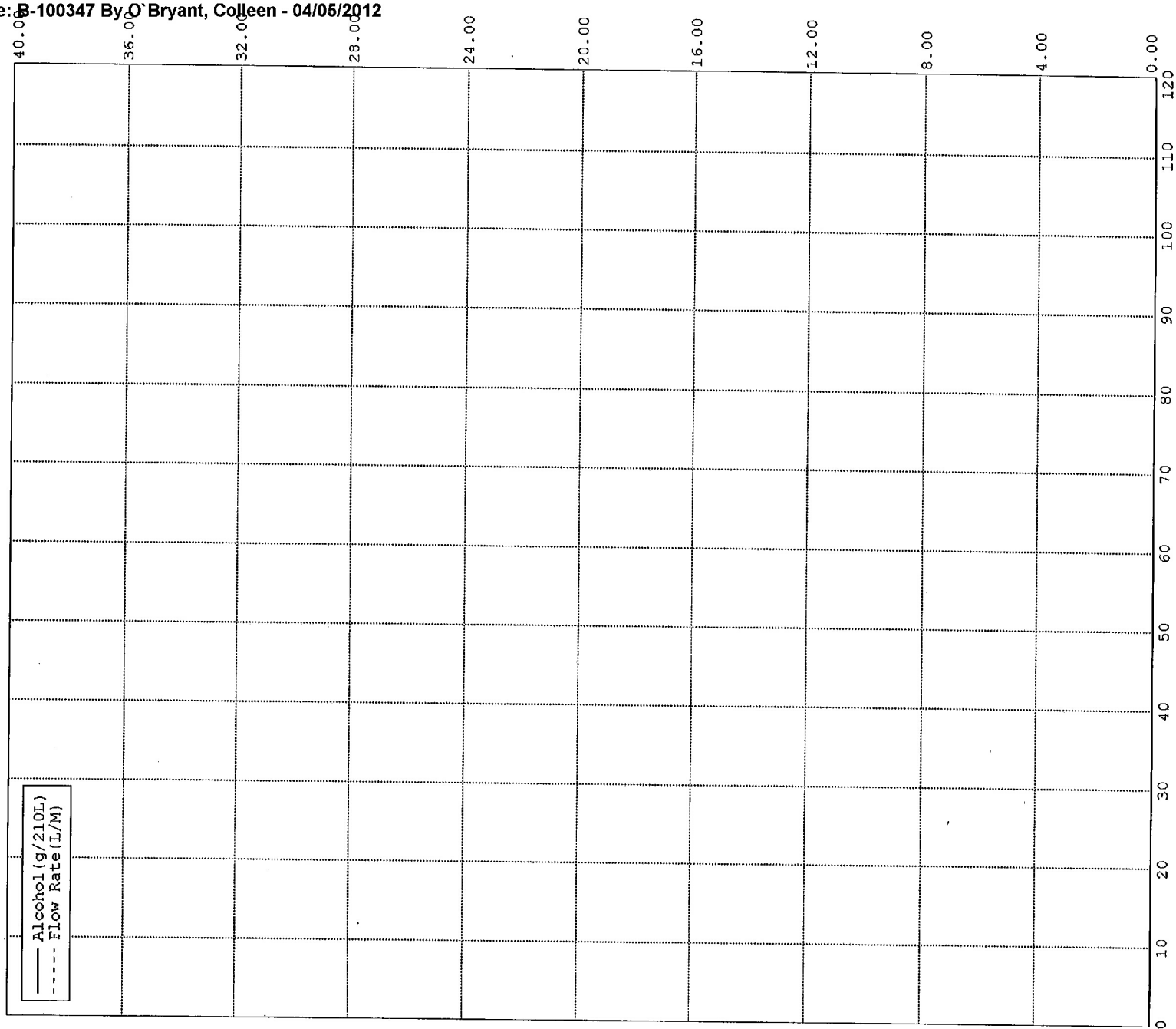
EXPIRATION: 07/13/2013

BLANK TEST	0.000	12:18
INTERNAL STANDARD	VERIFIED	12:18
EXTERNAL STANDARD	0.297	12:19
BLANK TEST	0.000	12:20
EXTERNAL STANDARD	0.295	12:20
BLANK TEST	0.000	12:21
EXTERNAL STANDARD	0.295	12:21
BLANK TEST	0.000	12:22
EXTERNAL STANDARD	0.296	12:23
BLANK TEST	0.000	12:24
EXTERNAL STANDARD	0.296	12:24
BLANK TEST	0.000	12:25

Average = 0.2962

Std Dev = 0.0008





SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dnt: 100347

Date: 04/05/2012
Time: 12:32:56

SUBJECT NAME:
TEST TEST
LICENSE #: INCOMPLETE

OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1

CASE/REPORT: 12-1234
TEST TYPE: TEST

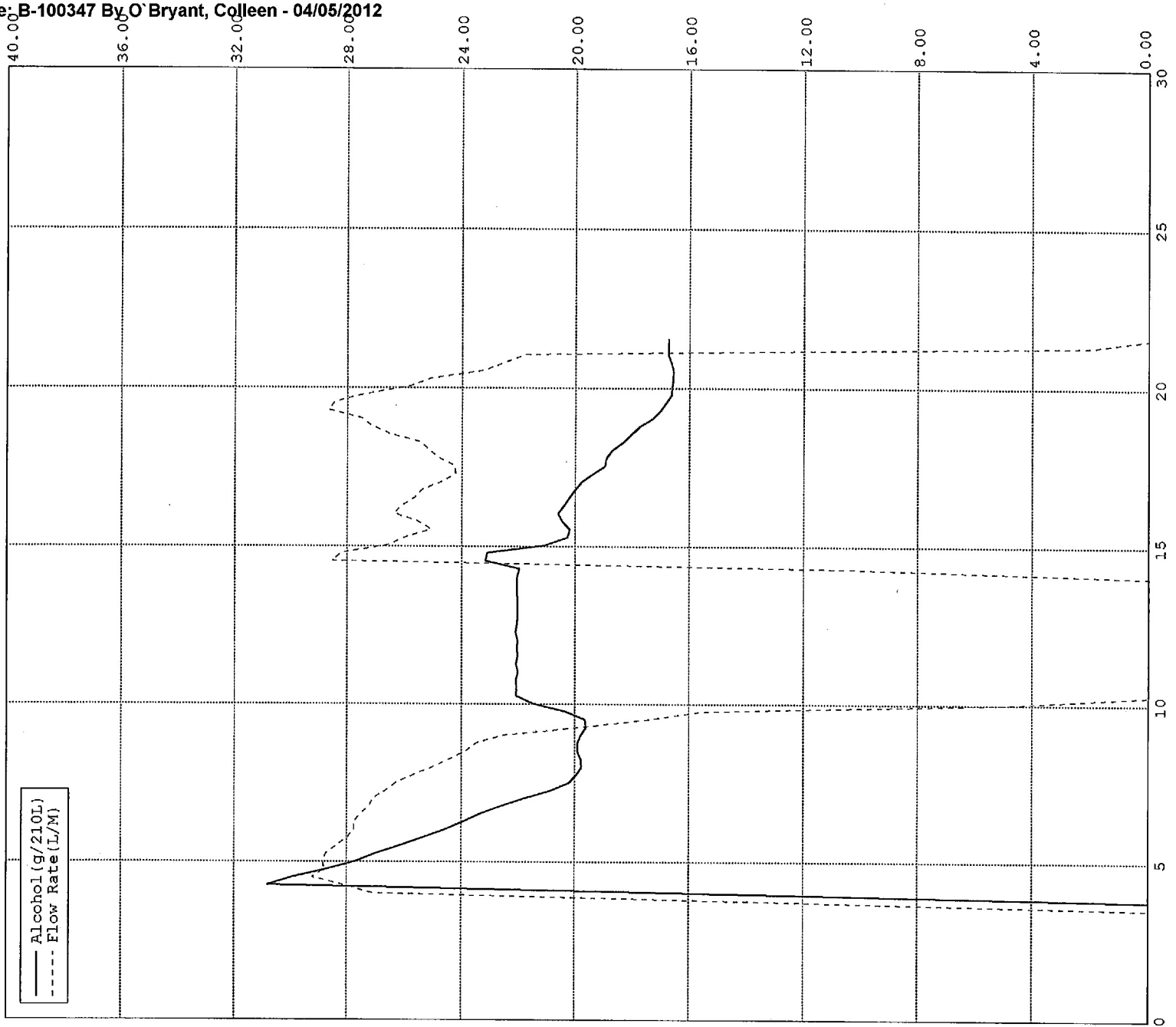
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.89: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	12:33
BLANK TEST	0.000	12:34
INTERNAL STANDARD	VERIFIED	12:34
EXTERNAL STANDARD	0.078	12:34
BLANK TEST	0.000	12:35
SUBJECT SAMPLE	INCOMPLETE	12:37

CAB

CAB 13/19



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100347

Date: 04/05/2012
 Time: 12:39:38

SUBJECT NAME:
 TEST TEST
 LICENSE #: INVALID

OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAA1

CASE/REPORT: 12-1234
 TEST TYPE: TEST

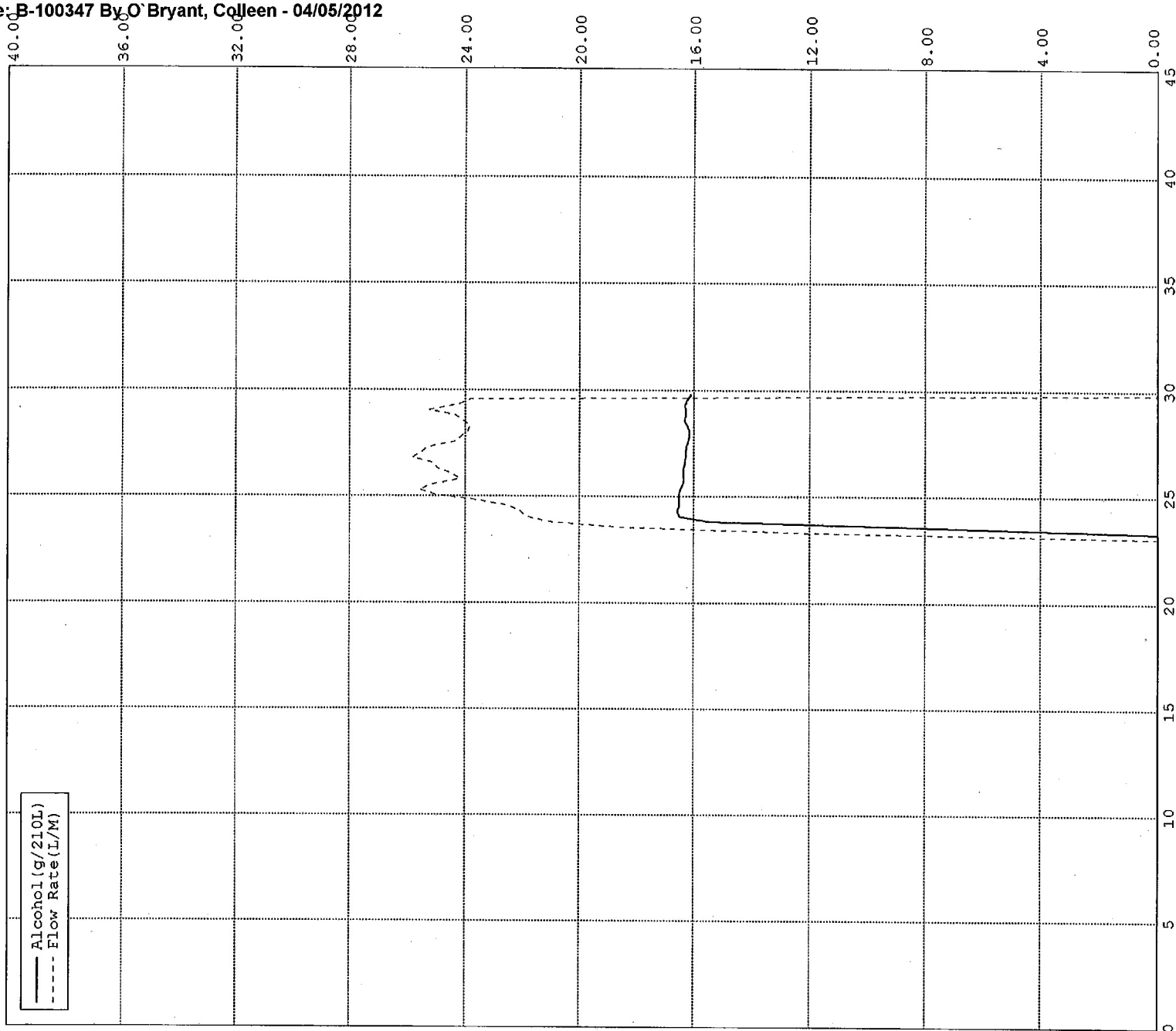
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.90: 0.079
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	12:45
BLANK TEST	0.000	12:45
INTERNAL STANDARD	VERIFIED	12:45
EXTERNAL STANDARD	0.080	12:46
BLANK TEST	0.000	12:47
SUBJECT SAMPLE	INVALID	12:47

CS

CS 4/19



SUBJECT TEST

Alaska Department of Public Safety
 DATAMASTER dmt: 100347

Date: 04/05/2012
 Time: 13:15:10

SUBJECT NAME:
 TEST TEST
 LICENSE #: INT-ACETONE

OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAA1

CASE/REPORT: 12-1234
 TEST TYPE: TEST

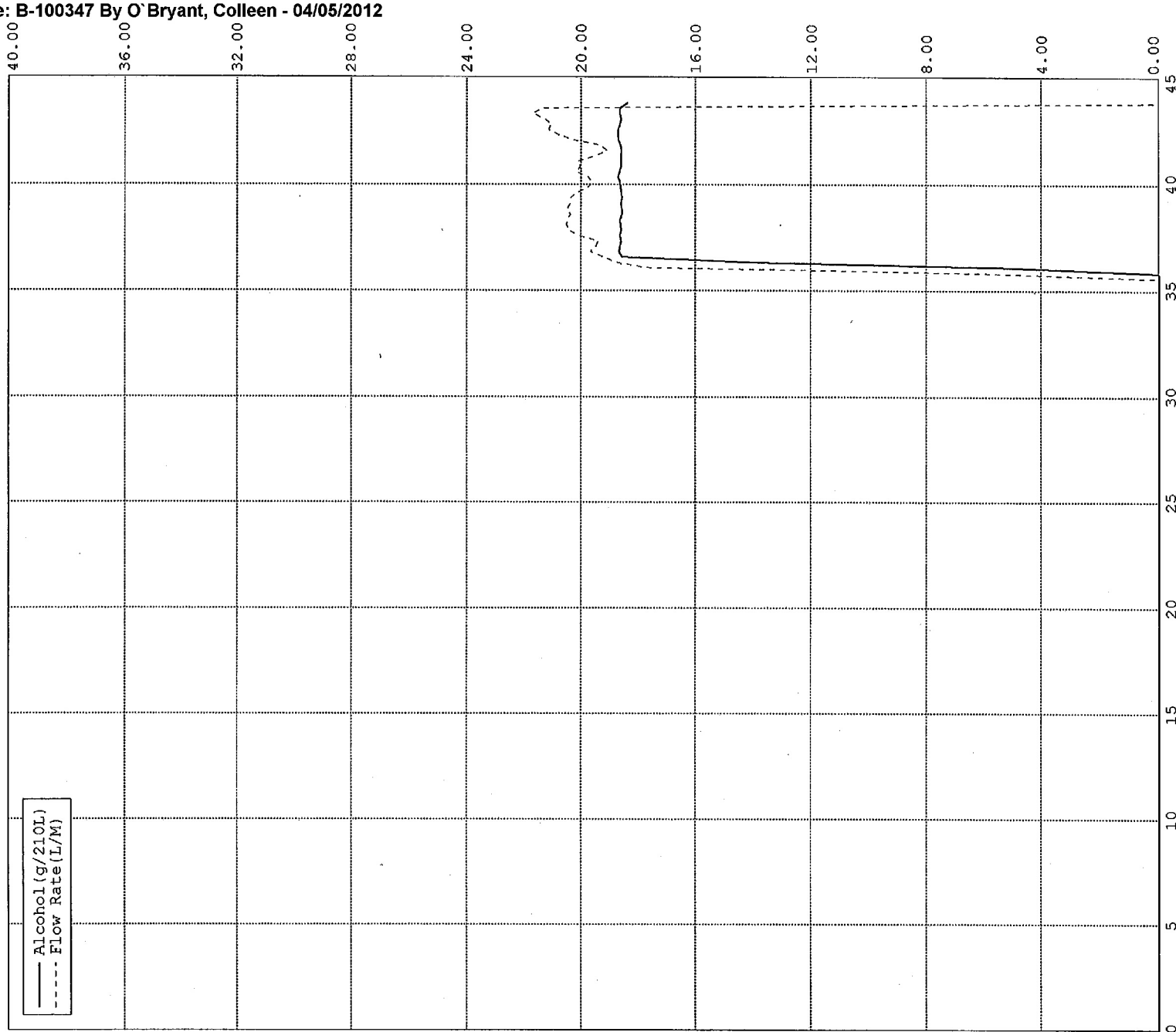
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.89: 0.079
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	13:16
BLANK TEST	0.000	13:16
INTERNAL STANDARD	VERIFIED	13:17
$X_q = 0.093$ (0.66%)		
EXTERNAL STANDARD	0.078	13:17
$X[1] = 0.0785$ (-0.0016) (0.0035)		
BLANK TEST	0.000	13:18
SUBJECT SAMPLE	INTERFERENCE	13:18
$X[1] = 0.0808$ (-0.0123) (0.0016)		

1003

04/15/12



SUBJECT TEST

 Alaska Department of Public Safety

DATA MASTER dmt: 100347

Date: 04/05/2012

Time: 13:04:24

SUBJECT NAME:

TEST TEST

LICENSE #: INT-IPA

OPERATOR NAME:

COLLEEN S O'BRYANT

OPERATOR'S #: 6237

DEPT/AGENCY:

AAA1

CASE/REPORT: 12-1234

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.89: 0.079

LOT #: 07511080A1

EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK

PASSED 13:05

BLANK TEST

0.000 13:05

INTERNAL STANDARD

VERIFIED 13:05

Xq = 0.093 (1.23%)

EXTERNAL STANDARD

0.077 13:06

X[1] = 0.0778 (-0.0021) (0.0035)

BLANK TEST

0.000 13:07

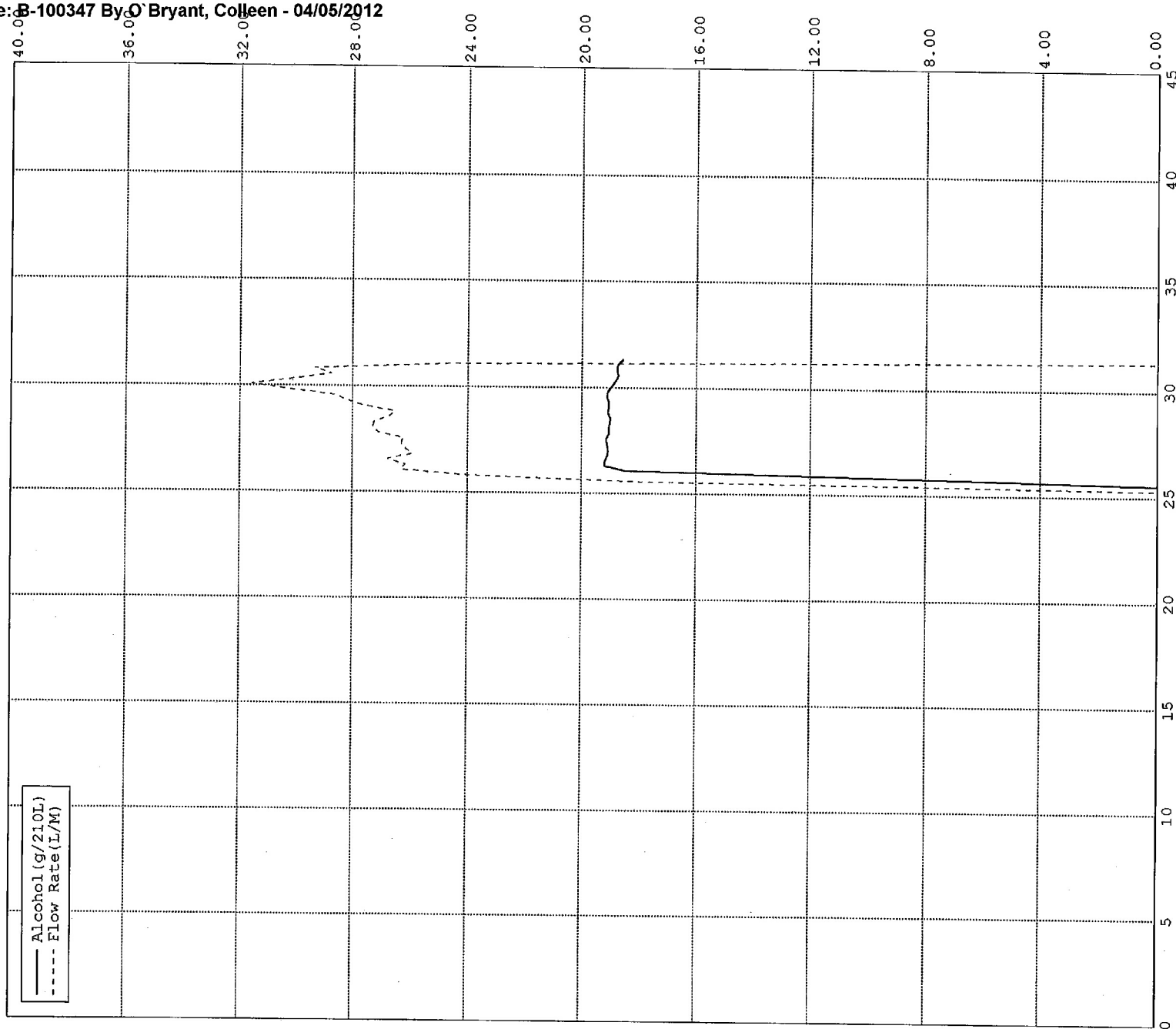
SUBJECT SAMPLE

INTERFERENCE 13:07

X[1] = 0.0920 (-0.0224) (0.0025)

CAS

00316/19



SUBJECT TEST

Alaska Department of Public Safety
 DATA MASTER dmt: 100347

Date: 04/05/2012
 Time: 12:55:57

SUBJECT NAME:
 TEST TEST
 LICENSE #: NEG CONTROL

OPERATOR NAME:
 COLLEEN S O'BRYANT
 OPERATOR'S #: 6237

DEPT/AGENCY:
 AAA1

CASE/REPORT: 12-1234
 TEST TYPE: TEST

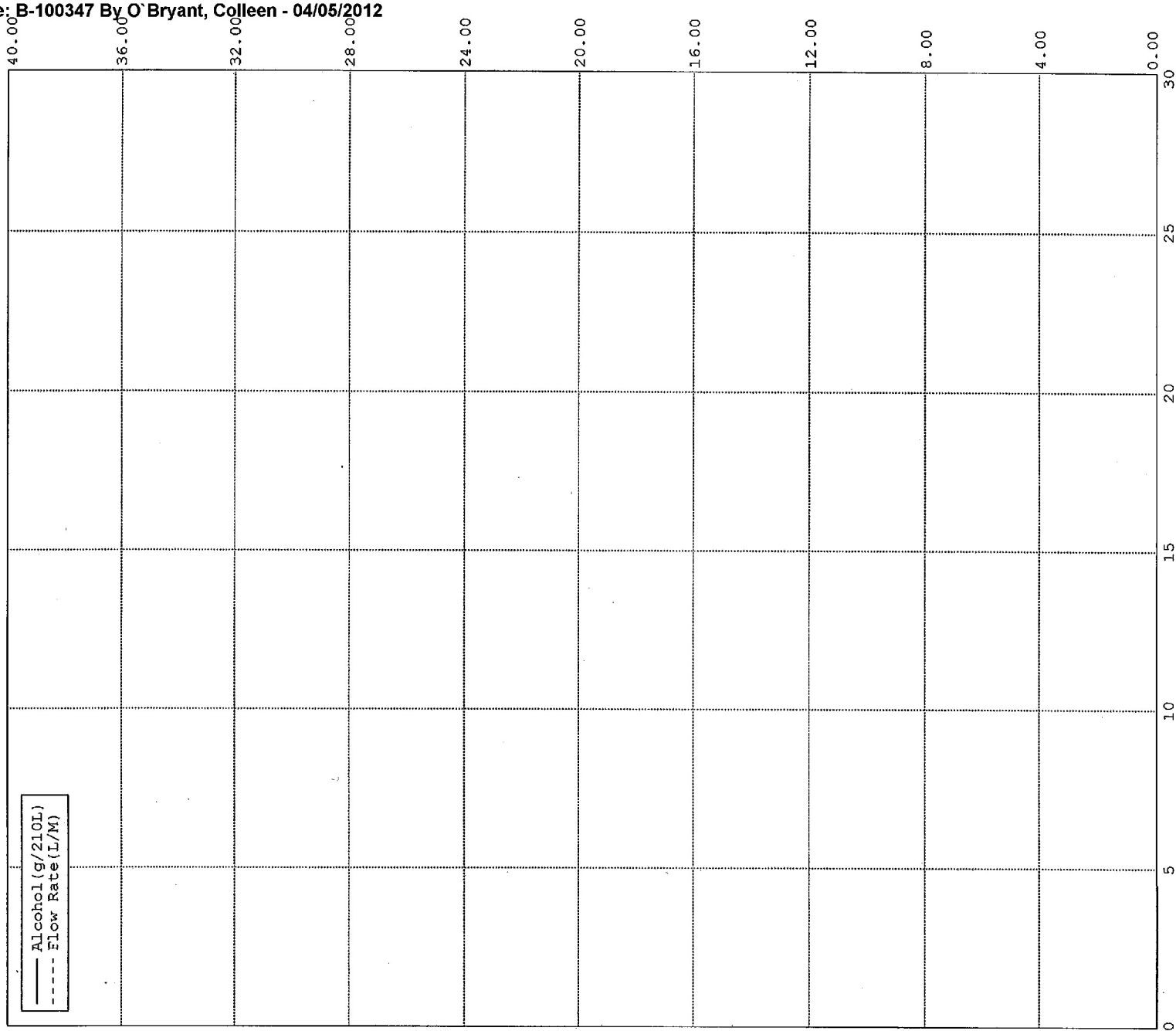
EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
 TARGET AT 29.89: 0.079
 LOT #: 07511080A1
 EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	12:57
BLANK TEST	0.000	12:57
INTERNAL STANDARD	VERIFIED	12:57
$X_q = 0.092$ (0.28%)		
EXTERNAL STANDARD	0.078	12:58
$X[1] = 0.0780$ (-0.0002) (0.0026)		
BLANK TEST	0.000	12:59
SUBJECT SAMPLE (Vol=2.57L)	0.092	12:59
$X[1] = 0.0929$ (-0.0005) (0.0014)		
BLANK TEST	0.000	13:00
EXTERNAL STANDARD	0.078	13:00
$X[1] = 0.0783$ (-0.0015) (0.0031)		
BLANK TEST	0.000	13:01

CB

CB 17/19



SUBJECT TEST

Alaska Department of Public Safety
DATAMASTER dmt: 100347

Date: 04/05/2012
Time: 13:28:05

SUBJECT NAME:
TEST TEST
LICENSE #: RFI

OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1

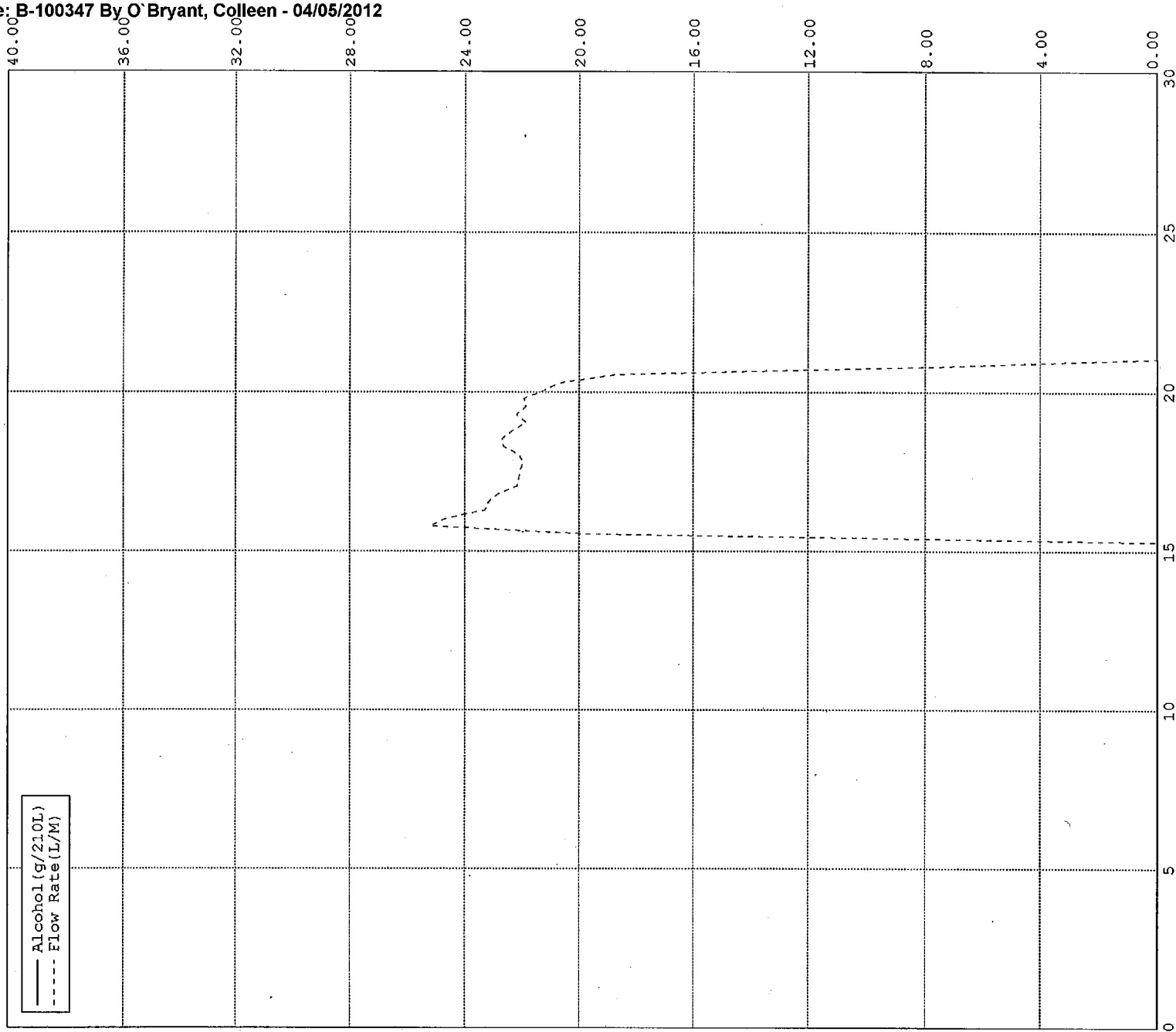
CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION
NOMINAL: 0.080
TARGET AT 29.88: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK PASSED 13:33
BLANK TEST 0.000 13:33
INTERNAL STANDARD VERIFIED 13:33
EXTERNAL STANDARD 0.078 13:33
BLANK TEST 0.000 13:34

RFI DETECTED

COB 18/19



SUBJECT TEST

Alaska Department of Public Safety
DATA MASTER dmt: 100347

Date: 04/05/2012
Time: 13:47:47

SUBJECT NAME:
TEST TEST
LICENSE #: NON-DRINKING

OPERATOR NAME:
COLLEEN S O'BRYANT
OPERATOR'S #: 6237

DEPT/AGENCY:
AAA1

CASE/REPORT: 12-1234
TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.87: 0.079
LOT #: 07511080A1
EXPIRATION: 03/01/2013

DIAGNOSTIC CHECK	PASSED	13:49
BLANK TEST	0.000	13:50
INTERNAL STANDARD	VERIFIED	13:50
EXTERNAL STANDARD	0.078	13:50
BLANK TEST	0.000	13:51
SUBJECT SAMPLE	0.000	13:51
BLANK TEST	0.000	13:52
EXTERNAL STANDARD	0.078	13:52
BLANK TEST	0.000	13:53

CS

04/19/12