VERMONT FORENSIC LABORATORY

DMT Verification Summary

DMT Serial Number: 100140

	Date	Initial	Solution Lot #	Target	Result	St. Dev.	Bias	% CV	Notes
Adjustment	8/1/2025	JSD	25-13-100	Cal Factor:	0.971656				
Calibration	8/1/2025	JSD							
MCS Check	8/1/2025	JSD	24GP41260	0.100	0.099	0.0002	-1.00%	0.20%	
Linearity #1	8/1/2025	JSD	24-22-025	0.025	0.025	0.0004	0.00%	1.60%	
			25-14-200	0.207	0.198	0.0005	-4.35%	0.25%	
			24-19-340	0.347	0.333	0.0003	-4.03%	0.09%	
Linearity #2	8/4/2025	JSD	24-22-025	0.025	0.024	0.0002	-4.00%	0.83%	
			25-14-200	0.207	0.197	0.0005	-4.83%	0.25%	
			24-19-340	0.347	0.331	0.0004	-4.61%	0.12%	
Linearity #3	8/6/2025	JSD	24-22-025	0.025	0.024	0.0002	-4.00%	0.83%	
			25-14-200	0.207	0.197	0.0003	-4.83%	0.15%	
			24-19-340	0.347	0.330	0.0002	-4.90%	0.06%	
0.01 g/210 L Acetone in 0.08 g/210L EtOH	8/1/2025	JSD	25-08-08A01	Int. Detected?	Yes				
0.02 g/210 L MeOH in H_2O	8/1/2025	JSD	24-25-00M02	Int. Detected?	Yes				
0.01 g/210 L IPA in H_2O	8/1/2025	JSD	25-03-00I01	Int. Detected?	Yes				

100140

Tech Review: 8/8/25 **Admin Review:** 8/8/25 **Director Review:** 8/8/2025

JSD

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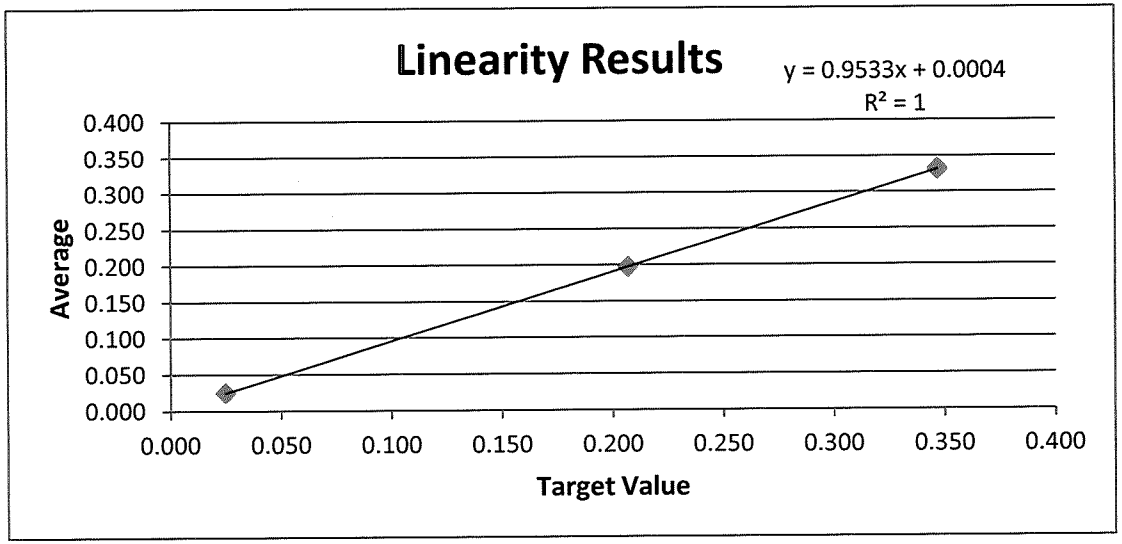
VERMONT FORENSIC LABORATORY

DMT Serial Number: **100140**



100140

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMaster DMT: 100140

Date: 8/1/2025
Time: 12:14:49

SUPERVISOR NAME:
JEFF DUKETTE

SOLUTION LOT #: 24-25-00M02
SOLUTION CONCENTRATION: 0.020

```
BLANK TEST                        0.000  12:15
SIMULATOR VAPOR 34.0°CINTERFERENCE 12:16
  X[1] = 0.0150 (-0.0072) (-0.0040)
SIMULATOR VAPOR 34.0°CINTERFERENCE 12:17
  X[1] = 0.0152 (-0.0072) (-0.0042)
SIMULATOR VAPOR 34.0°CINTERFERENCE 12:18
  X[1] = 0.0156 (-0.0065) (-0.0041)
SIMULATOR VAPOR 34.0°CINTERFERENCE 12:19
  X[1] = 0.0154 (-0.0074) (-0.0042)
SIMULATOR VAPOR 34.0°CINTERFERENCE 12:20
  X[1] = 0.0156 (-0.0078) (-0.0044)
SIMULATOR VAPOR 34.0°CINTERFERENCE 12:21
  X[1] = 0.0156 (-0.0077) (-0.0044)
SIMULATOR VAPOR 34.0°CINTERFERENCE 12:22
  X[1] = 0.0154 (-0.0073) (-0.0041)
SIMULATOR VAPOR 34.0°CINTERFERENCE 12:24
  X[1] = 0.0153 (-0.0075) (-0.0041)
SIMULATOR VAPOR 34.0°CINTERFERENCE 12:25
  X[1] = 0.0155 (-0.0073) (-0.0039)
SIMULATOR VAPOR 34.0°CINTERFERENCE 12:26
  X[1] = 0.0155 (-0.0087) (-0.0041)
BLANK TEST                        0.000  12:27
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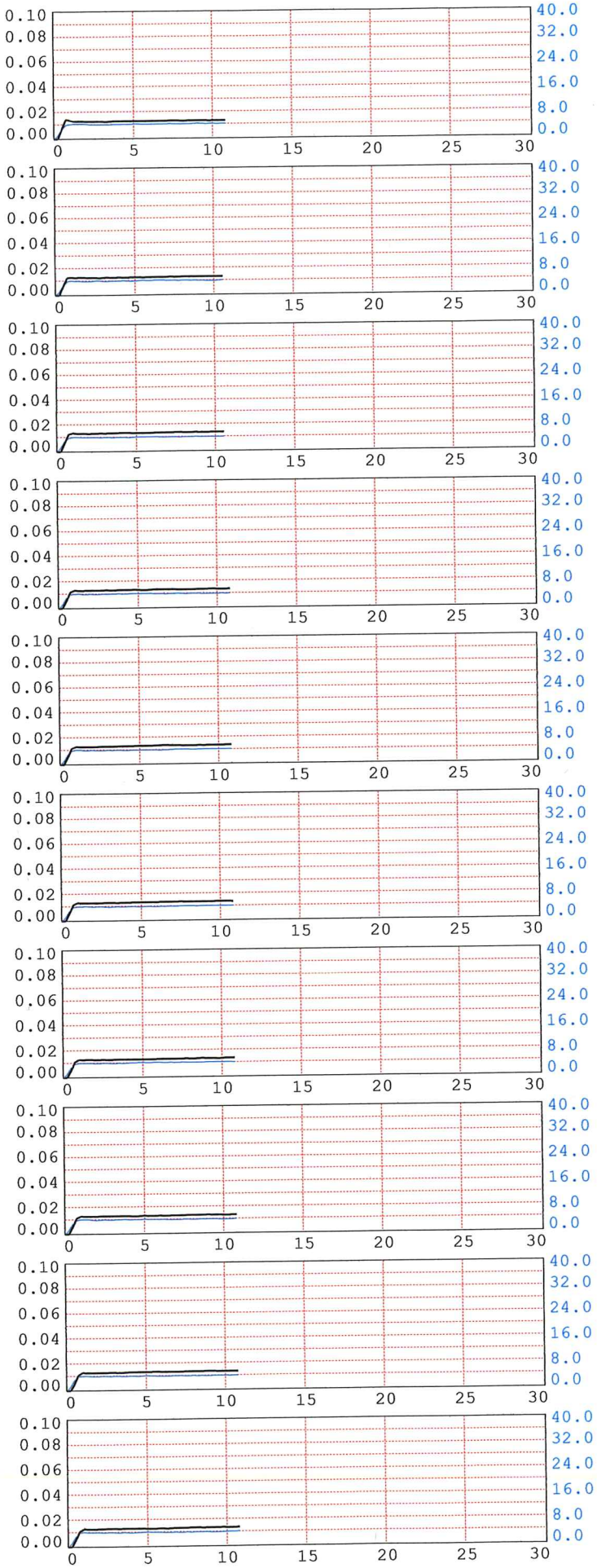


100146 JSD 3

ACCURACY & PRECISION REPORT

STATE OF VERMONT

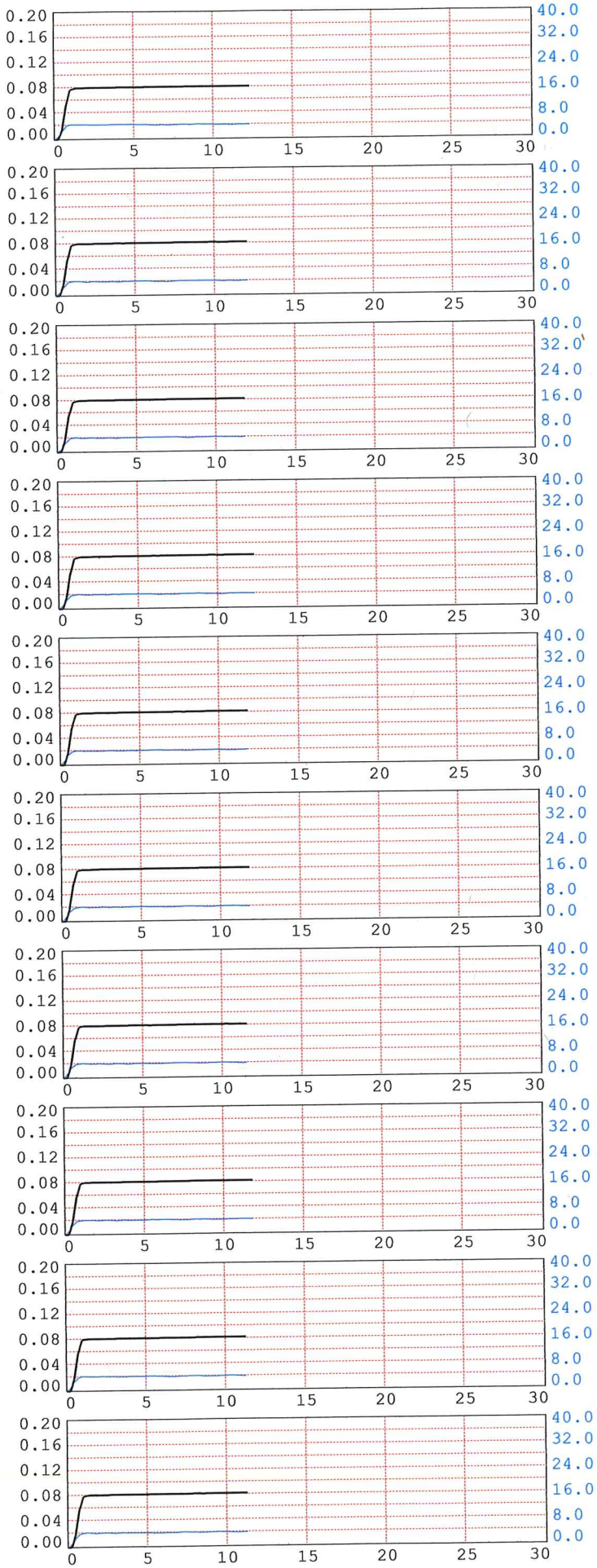
DataMaster DMT: 100140

Date: 8/1/2025
Time: 12:33:46

SUPERVISOR NAME:
JEFF DUKETTE

SOLUTION LOT #: 25-08-08A01
SOLUTION CONCENTRATION: 0.010

```
BLANK TEST                        0.000  12:34
SIMULATOR VAPOR 34.0°CINTERFERENCE 12:35
  X[1] = 0.0823 (-0.0093) (0.0013)
SIMULATOR VAPOR 34.0°CINTERFERENCE 12:36
  X[1] = 0.0832 (-0.0092) (0.0010)
SIMULATOR VAPOR 34.0°CINTERFERENCE 12:37
  X[1] = 0.0833 (-0.0094) (0.0010)
SIMULATOR VAPOR 34.0°CINTERFERENCE 12:38
  X[1] = 0.0833 (-0.0101) (0.0007)
SIMULATOR VAPOR 34.0°CINTERFERENCE 12:39
  X[1] = 0.0834 (-0.0104) (0.0008)
SIMULATOR VAPOR 34.0°CINTERFERENCE 12:40
  X[1] = 0.0832 (-0.0098) (0.0006)
SIMULATOR VAPOR 34.0°CINTERFERENCE 12:42
  X[1] = 0.0832 (-0.0095) (0.0003)
SIMULATOR VAPOR 34.0°CINTERFERENCE 12:43
  X[1] = 0.0835 (-0.0092) (0.0008)
SIMULATOR VAPOR 34.0°CINTERFERENCE 12:44
  X[1] = 0.0833 (-0.0097) (0.0006)
SIMULATOR VAPOR 34.0°CINTERFERENCE 12:45
  X[1] = 0.0834 (-0.0090) (0.0009)
BLANK TEST                        0.000  12:46
```



100140

JSD

4

ACCURACY & PRECISION REPORT

STATE OF VERMONT

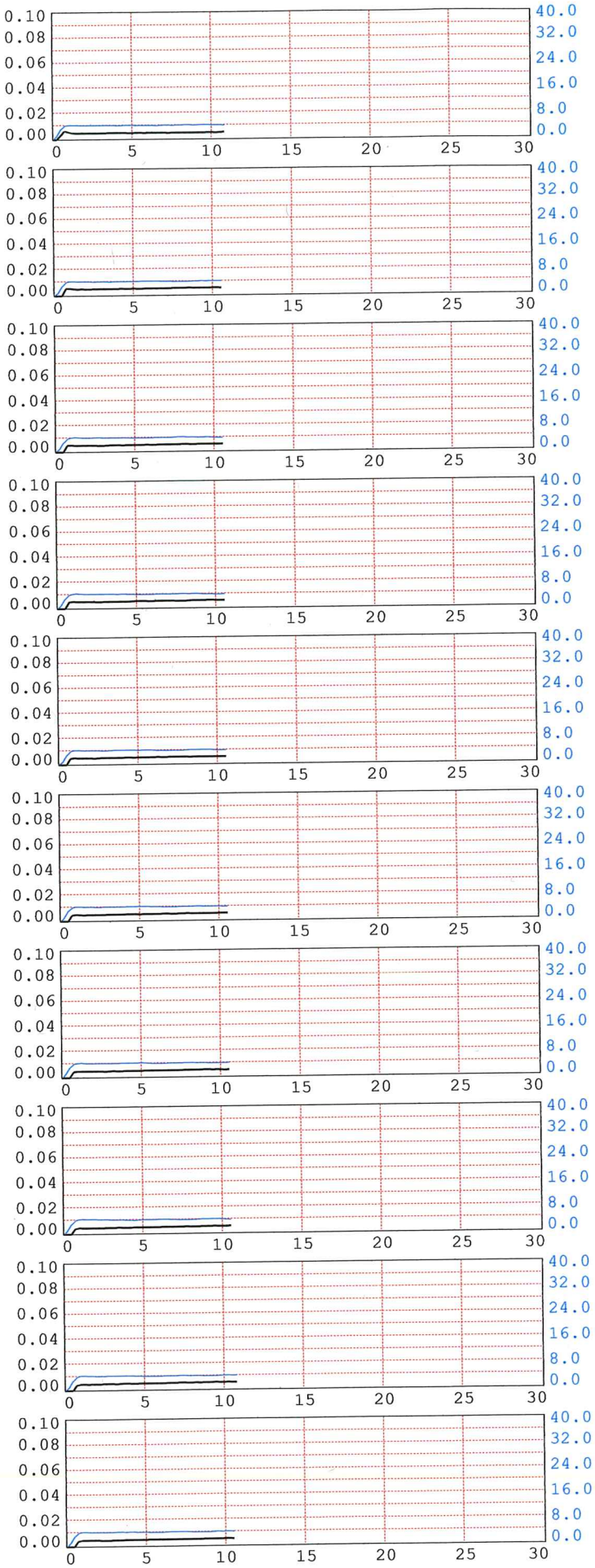
DataMaster DMT: 100140

Date: 8/1/2025
Time: 12:55:10

SUPERVISOR NAME:
JEFF DUKETTE

SOLUTION LOT #: 25-03-00I01
SOLUTION CONCENTRATION: 0.010

BLANK TEST 0.000 12:56
SIMULATOR VAPOR 34.0°C INTERFERENCE 12:56
X[1] = 0.0062 (-0.0081) (0.0028)
SIMULATOR VAPOR 34.0°C INTERFERENCE 12:57
X[1] = 0.0065 (-0.0085) (0.0022)
SIMULATOR VAPOR 34.0°C INTERFERENCE 12:58
X[1] = 0.0066 (-0.0083) (0.0020)
SIMULATOR VAPOR 34.0°C INTERFERENCE 12:59
X[1] = 0.0068 (-0.0091) (0.0018)
SIMULATOR VAPOR 34.0°C INTERFERENCE 13:00
X[1] = 0.0066 (-0.0096) (0.0018)
SIMULATOR VAPOR 34.0°C INTERFERENCE 13:02
X[1] = 0.0067 (-0.0094) (0.0023)
SIMULATOR VAPOR 34.0°C INTERFERENCE 13:03
X[1] = 0.0067 (-0.0096) (0.0020)
SIMULATOR VAPOR 34.0°C INTERFERENCE 13:04
X[1] = 0.0065 (-0.0096) (0.0016)
SIMULATOR VAPOR 34.0°C INTERFERENCE 13:05
X[1] = 0.0067 (-0.0094) (0.0024)
SIMULATOR VAPOR 34.0°C INTERFERENCE 13:06
X[1] = 0.0064 (-0.0103) (0.0015)
BLANK TEST 0.000 13:07



100140 JSD 5

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMaster DMT: 100140

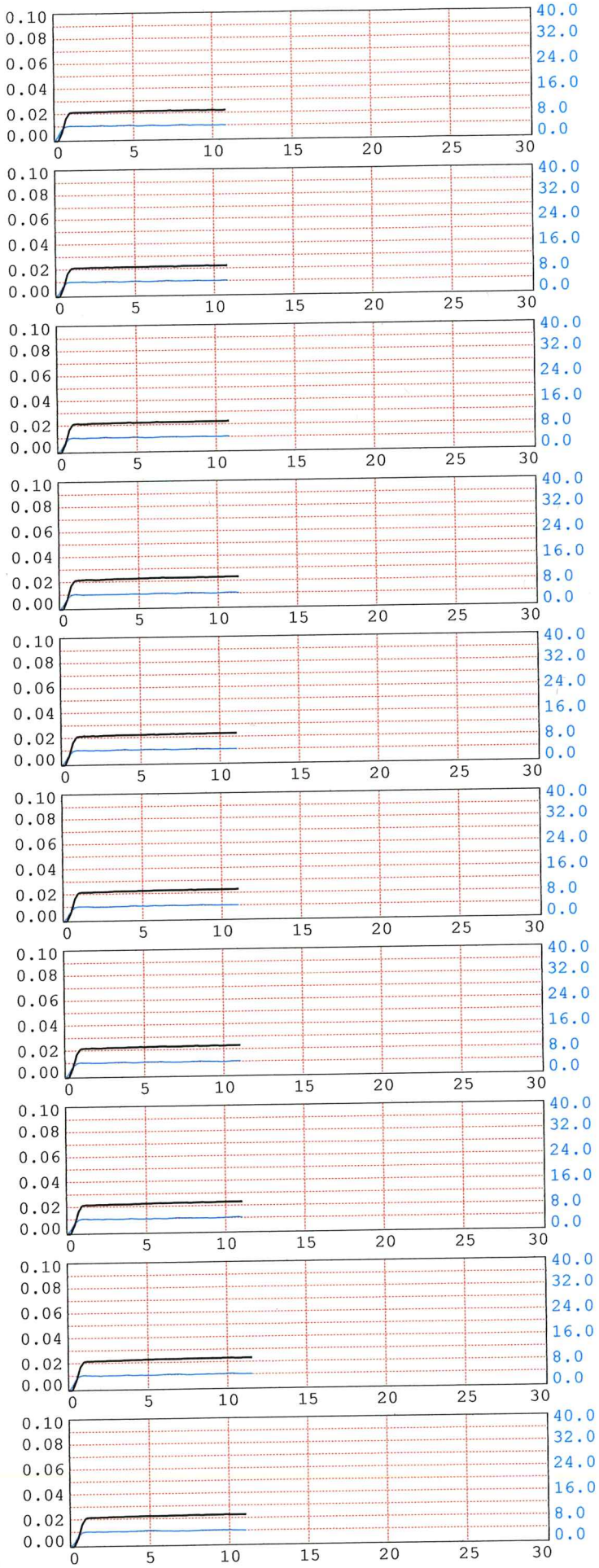
Date: 8/1/2025
Time: 13:32:58

SUPERVISOR NAME:
JEFF DUKETTE

SOLUTION LOT #: 24-22-025
SOLUTION CONCENTRATION: 0.025

BLANK TEST		0.000	13:33
SIMULATOR VAPOR 34.0°C		0.024	13:34
X[1] = 0.0239	(-0.0018)	(0.0024)	
SIMULATOR VAPOR 34.0°C		0.024	13:35
X[1] = 0.0241	(-0.0023)	(0.0018)	
SIMULATOR VAPOR 34.0°C		0.024	13:36
X[1] = 0.0245	(-0.0025)	(0.0015)	
SIMULATOR VAPOR 34.0°C		0.025	13:37
X[1] = 0.0250	(0.0006)	(0.0019)	
SIMULATOR VAPOR 34.0°C		0.025	13:38
X[1] = 0.0248	(-0.0001)	(0.0013)	
SIMULATOR VAPOR 34.0°C		0.025	13:39
X[1] = 0.0248	(0.0002)	(0.0015)	
SIMULATOR VAPOR 34.0°C		0.025	13:41
X[1] = 0.0249	(-0.0001)	(0.0014)	
SIMULATOR VAPOR 34.0°C		0.025	13:42
X[1] = 0.0251	(-0.0001)	(0.0016)	
SIMULATOR VAPOR 34.0°C		0.025	13:43
X[1] = 0.0250	(0.0000)	(0.0015)	
SIMULATOR VAPOR 34.0°C		0.025	13:44
X[1] = 0.0246	(-0.0004)	(0.0016)	
BLANK TEST		0.000	13:45

Average = 0.025
Std Dev = 0.0004



100140 JD 6

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMaster DMT: 100140

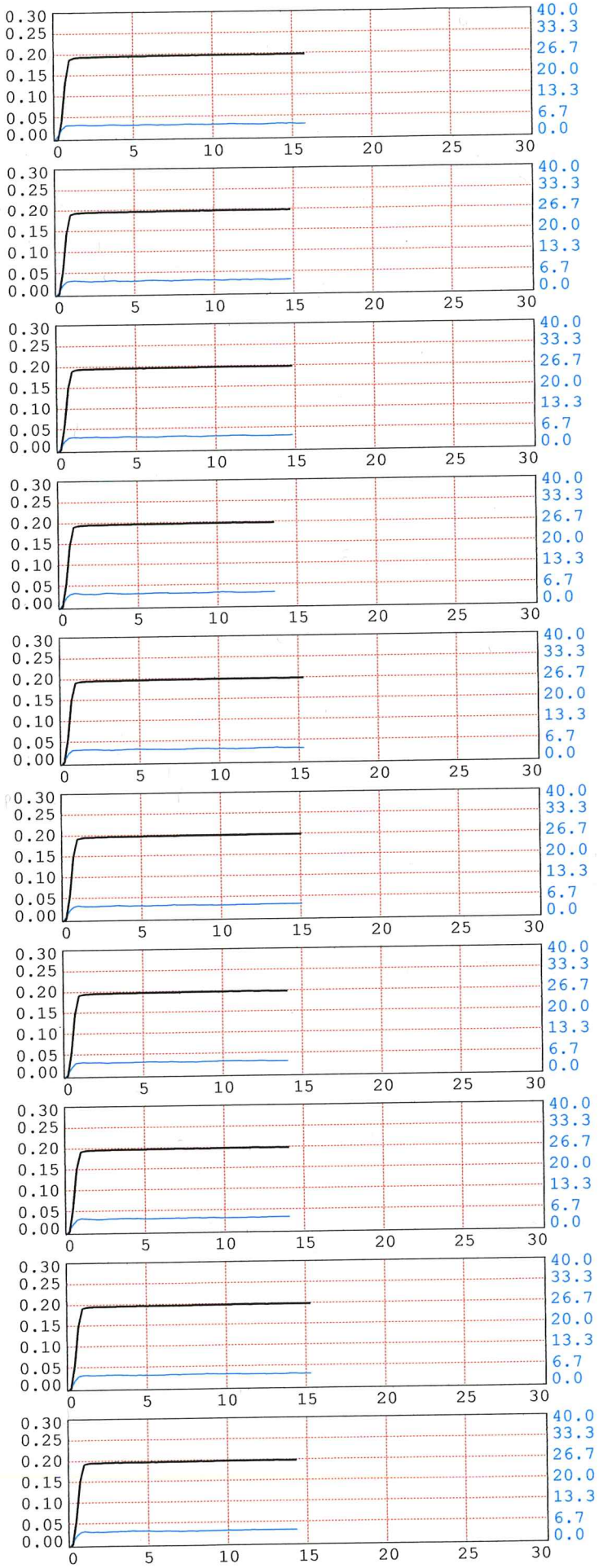
Date: 8/1/2025
Time: 13:52:56

SUPERVISOR NAME:
JEFF DUKETTE

SOLUTION LOT #: 25-14-200
SOLUTION CONCENTRATION: 0.207

BLANK TEST		0.000	13:53
SIMULATOR VAPOR 34.0°C		0.197	13:54
X[1] = 0.1970	(-0.0012)	(0.0028)	
SIMULATOR VAPOR 34.0°C		0.198	13:55
X[1] = 0.1976	(0.0000)	(0.0023)	
SIMULATOR VAPOR 34.0°C		0.198	13:56
X[1] = 0.1976	(-0.0010)	(0.0019)	
SIMULATOR VAPOR 34.0°C		0.198	13:57
X[1] = 0.1979	(-0.0003)	(0.0019)	
SIMULATOR VAPOR 34.0°C		0.198	13:59
X[1] = 0.1982	(-0.0009)	(0.0019)	
SIMULATOR VAPOR 34.0°C		0.198	14:00
X[1] = 0.1985	(-0.0007)	(0.0020)	
SIMULATOR VAPOR 34.0°C		0.198	14:01
X[1] = 0.1982	(-0.0008)	(0.0021)	
SIMULATOR VAPOR 34.0°C		0.198	14:02
X[1] = 0.1983	(0.0008)	(0.0022)	
SIMULATOR VAPOR 34.0°C		0.198	14:04
X[1] = 0.1983	(-0.0008)	(0.0014)	
SIMULATOR VAPOR 34.0°C		0.199	14:05
X[1] = 0.1988	(-0.0004)	(0.0019)	
BLANK TEST		0.000	14:06

Average = 0.198
Std Dev = 0.0005



100140

JD

7

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMaster DMT: 100140

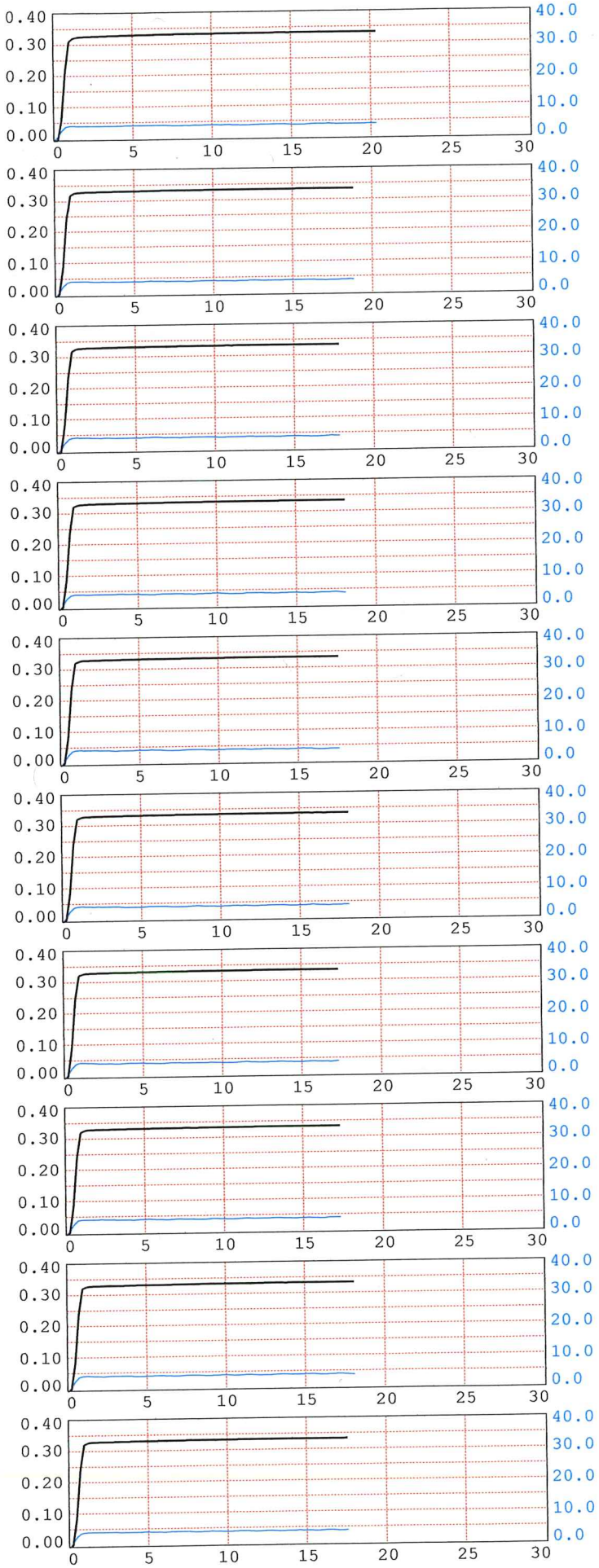
Date: 8/1/2025
Time: 14:11:14

SUPERVISOR NAME:
JEFF DUKETTE

SOLUTION LOT #: 24-19-340
SOLUTION CONCENTRATION: 0.347

BLANK TEST		0.000	14:12
SIMULATOR VAPOR 34.0°C		0.332	14:12
X[1] = 0.3323	(0.0016)	(0.0015)	
SIMULATOR VAPOR 34.0°C		0.333	14:13
X[1] = 0.3330	(0.0004)	(0.0012)	
SIMULATOR VAPOR 34.0°C		0.332	14:15
X[1] = 0.3322	(-0.0009)	(0.0007)	
SIMULATOR VAPOR 34.0°C		0.333	14:16
X[1] = 0.3329	(0.0004)	(0.0008)	
SIMULATOR VAPOR 34.0°C		0.333	14:17
X[1] = 0.3327	(0.0003)	(0.0013)	
SIMULATOR VAPOR 34.0°C		0.333	14:19
X[1] = 0.3329	(-0.0004)	(0.0008)	
SIMULATOR VAPOR 34.0°C		0.332	14:20
X[1] = 0.3323	(-0.0007)	(0.0008)	
SIMULATOR VAPOR 34.0°C		0.333	14:21
X[1] = 0.3326	(0.0009)	(0.0012)	
SIMULATOR VAPOR 34.0°C		0.333	14:23
X[1] = 0.3326	(-0.0002)	(0.0012)	
SIMULATOR VAPOR 34.0°C		0.333	14:24
X[1] = 0.3329	(-0.0002)	(0.0010)	
BLANK TEST		0.000	14:25

Average = 0.333
Std Dev = 0.0003



100140

JSD

8

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMaster DMT: 100140

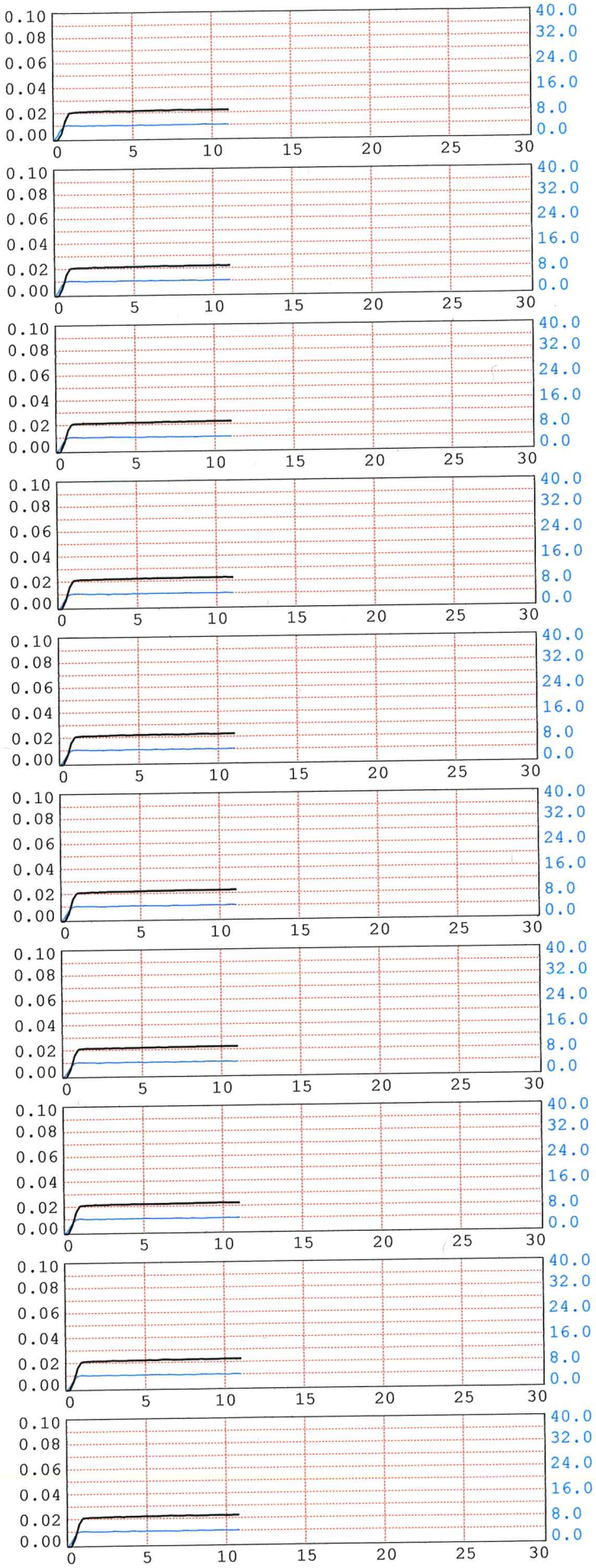
Date: 8/4/2025
Time: 12:09:20

SUPERVISOR NAME:
JEFF DUKETTE

SOLUTION LOT #: 24-22-025
SOLUTION CONCENTRATION: 0.025

BLANK TEST		0.000	12:10
SIMULATOR VAPOR 34.0°C		0.024	12:10
X[1] = 0.0239	(-0.0001)	(0.0011)	
SIMULATOR VAPOR 34.0°C		0.024	12:11
X[1] = 0.0242	(-0.0002)	(0.0004)	
SIMULATOR VAPOR 34.0°C		0.024	12:12
X[1] = 0.0245	(-0.0004)	(0.0007)	
SIMULATOR VAPOR 34.0°C		0.025	12:14
X[1] = 0.0247	(-0.0004)	(0.0004)	
SIMULATOR VAPOR 34.0°C		0.024	12:15
X[1] = 0.0244	(0.0002)	(0.0002)	
SIMULATOR VAPOR 34.0°C		0.024	12:16
X[1] = 0.0245	(0.0000)	(0.0003)	
SIMULATOR VAPOR 34.0°C		0.024	12:17
X[1] = 0.0244	(0.0001)	(0.0004)	
SIMULATOR VAPOR 34.0°C		0.024	12:18
X[1] = 0.0245	(-0.0003)	(0.0002)	
SIMULATOR VAPOR 34.0°C		0.025	12:19
X[1] = 0.0246	(0.0002)	(0.0006)	
SIMULATOR VAPOR 34.0°C		0.025	12:20
X[1] = 0.0247	(0.0002)	(0.0006)	
BLANK TEST		0.000	12:21

Average = 0.024
Std Dev = 0.0002



100140

JD

9

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMaster DMT: 100140

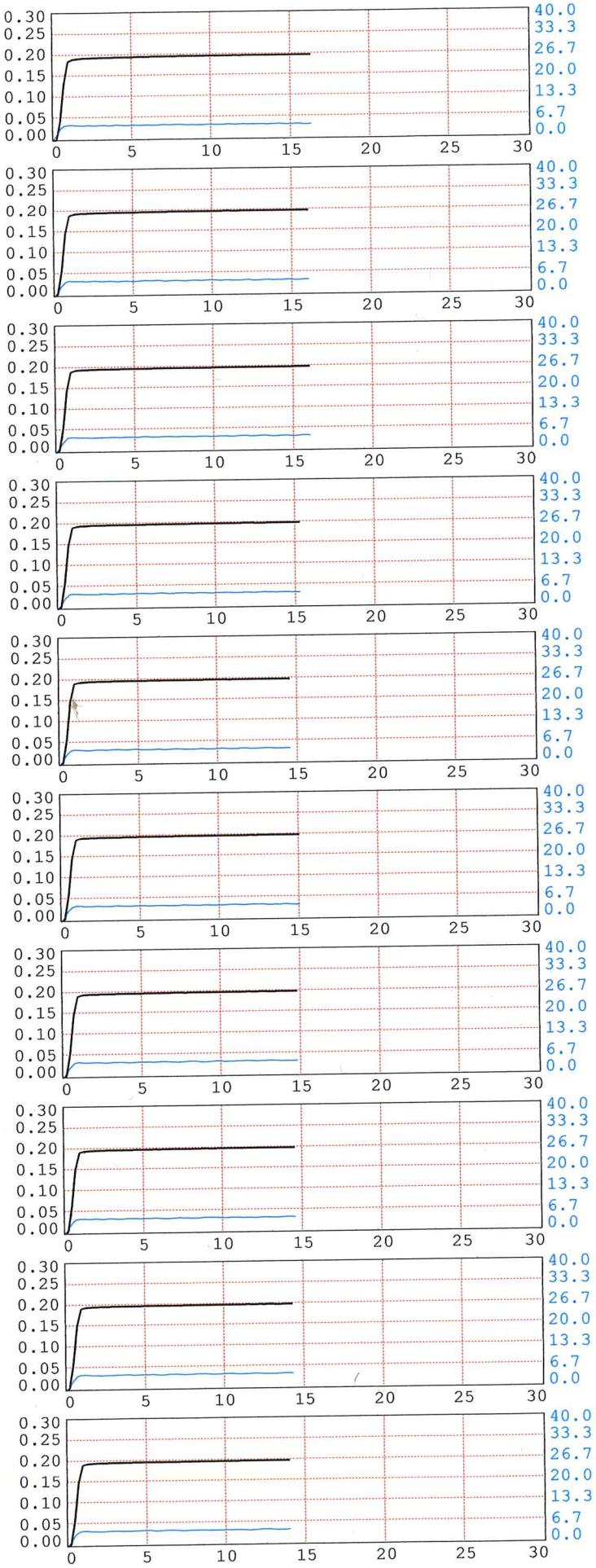
Date: 8/4/2025
Time: 12:33:15

SUPERVISOR NAME:
JEFF DUKETTE

SOLUTION LOT #: 25-14-200
SOLUTION CONCENTRATION: 0.207

BLANK TEST		0.000	12:34
SIMULATOR VAPOR 34.0°C		0.196	12:34
X[1] = 0.1958	(-0.0009)	(-0.0002)	
SIMULATOR VAPOR 34.0°C		0.197	12:35
X[1] = 0.1969	(-0.0007)	(-0.0004)	
SIMULATOR VAPOR 34.0°C		0.197	12:37
X[1] = 0.1972	(-0.0006)	(-0.0005)	
SIMULATOR VAPOR 34.0°C		0.198	12:38
X[1] = 0.1976	(-0.0005)	(-0.0007)	
SIMULATOR VAPOR 34.0°C		0.197	12:39
X[1] = 0.1973	(-0.0002)	(-0.0006)	
SIMULATOR VAPOR 34.0°C		0.197	12:40
X[1] = 0.1974	(-0.0007)	(-0.0006)	
SIMULATOR VAPOR 34.0°C		0.197	12:42
X[1] = 0.1973	(-0.0006)	(-0.0004)	
SIMULATOR VAPOR 34.0°C		0.198	12:43
X[1] = 0.1976	(0.0001)	(-0.0004)	
SIMULATOR VAPOR 34.0°C		0.198	12:44
X[1] = 0.1975	(-0.0004)	(-0.0001)	
SIMULATOR VAPOR 34.0°C		0.197	12:45
X[1] = 0.1970	(-0.0004)	(-0.0004)	
BLANK TEST		0.000	12:46

Average = 0.197
Std Dev = 0.0005



100140 JSD 10

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMaster DMT: 100140

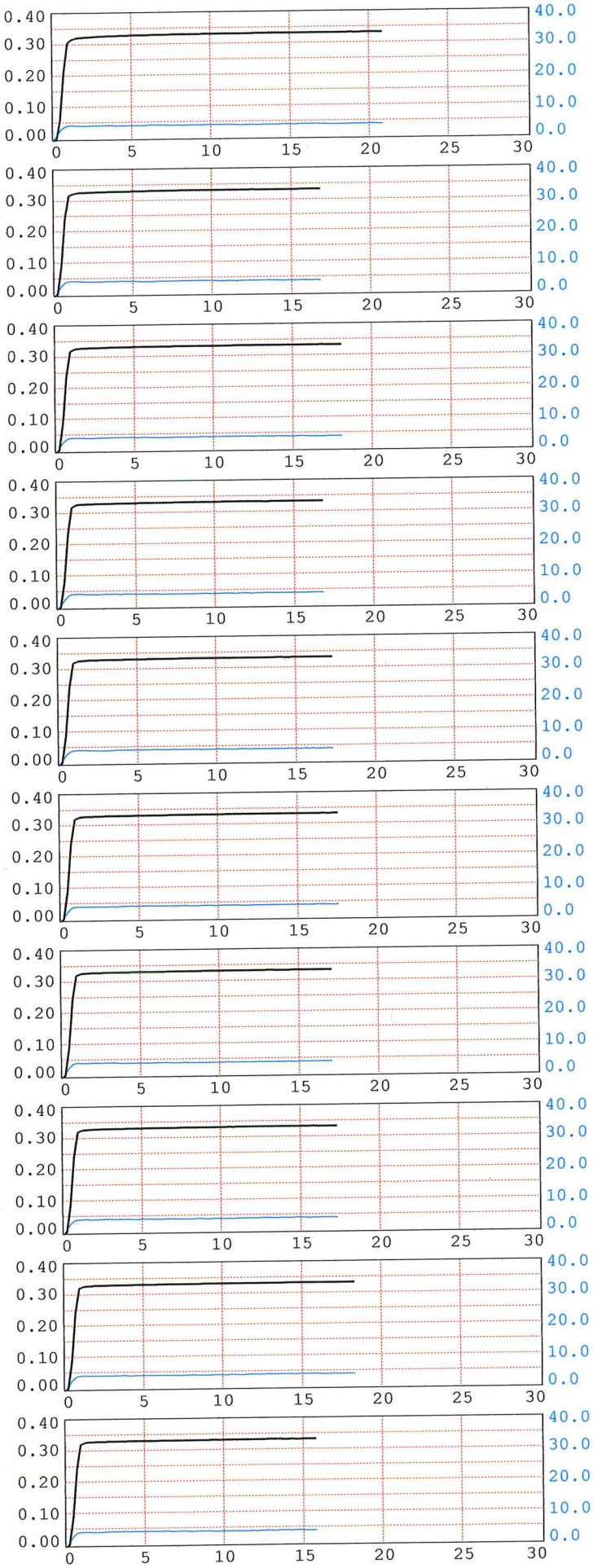
Date: 8/4/2025
Time: 12:51:20

SUPERVISOR NAME:
JEFF DUKETTE

SOLUTION LOT #: 24-19-340
SOLUTION CONCENTRATION: 0.347

BLANK TEST		0.000	12:52
SIMULATOR VAPOR 34.0°C		0.331	12:52
X[1] = 0.3307	(0.0004)	(0.0006)	
SIMULATOR VAPOR 34.0°C		0.331	12:54
X[1] = 0.3308	(0.0001)	(-0.0006)	
SIMULATOR VAPOR 34.0°C		0.332	12:55
X[1] = 0.3316	(0.0000)	(-0.0004)	
SIMULATOR VAPOR 34.0°C		0.331	12:56
X[1] = 0.3312	(0.0001)	(-0.0011)	
SIMULATOR VAPOR 34.0°C		0.331	12:57
X[1] = 0.3312	(0.0001)	(-0.0007)	
SIMULATOR VAPOR 34.0°C		0.331	12:59
X[1] = 0.3309	(-0.0007)	(-0.0011)	
SIMULATOR VAPOR 34.0°C		0.331	13:00
X[1] = 0.3310	(-0.0004)	(-0.0002)	
SIMULATOR VAPOR 34.0°C		0.331	13:01
X[1] = 0.3314	(-0.0002)	(-0.0008)	
SIMULATOR VAPOR 34.0°C		0.331	13:03
X[1] = 0.3308	(-0.0007)	(-0.0005)	
SIMULATOR VAPOR 34.0°C		0.330	13:04
X[1] = 0.3304	(-0.0006)	(-0.0005)	
BLANK TEST		0.000	13:05

Average = 0.331
Std Dev = 0.0004



100140

ASD

11

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMaster DMT: 100140

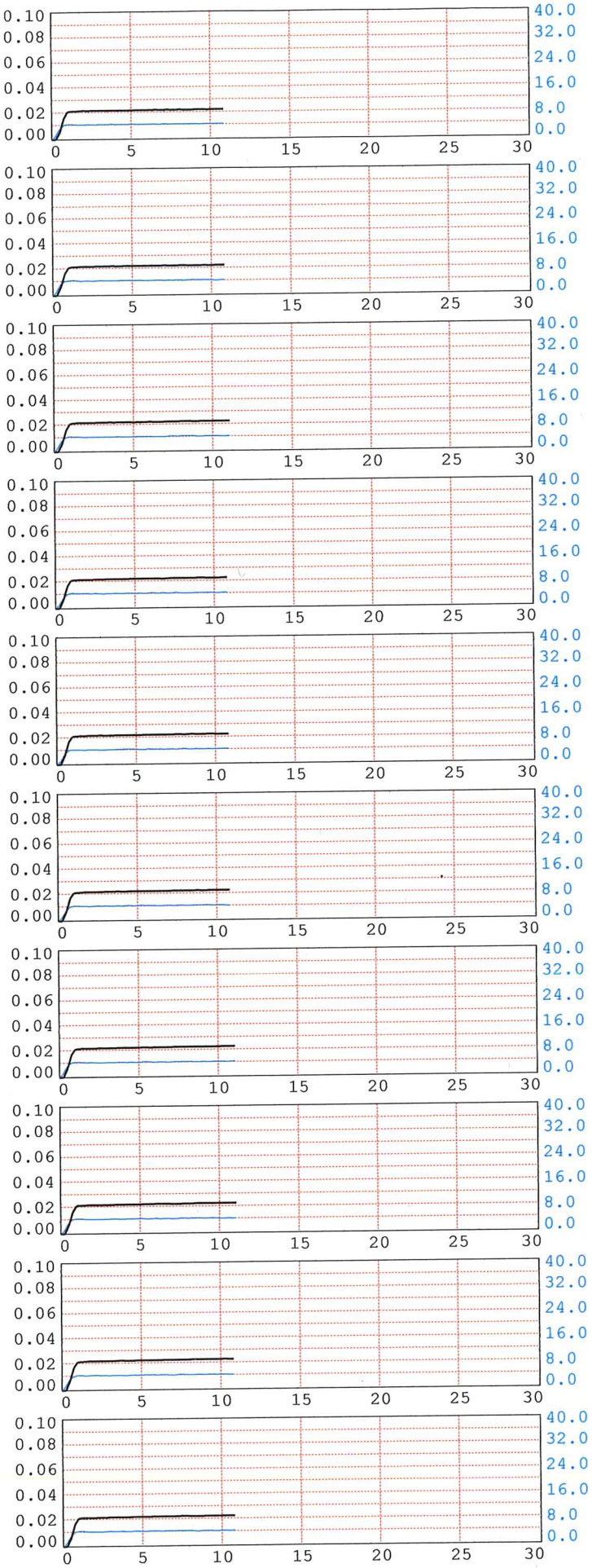
Date: 8/6/2025
Time: 07:28:11

SUPERVISOR NAME:
JEFF DUKETTE

SOLUTION LOT #: 24-22-025
SOLUTION CONCENTRATION: 0.025

BLANK TEST		0.000	07:29
SIMULATOR VAPOR 34.0°C		0.024	07:29
X[1] = 0.0239	(-0.0007)	(0.0007)	
SIMULATOR VAPOR 34.0°C		0.024	07:30
X[1] = 0.0244	(-0.0001)	(0.0004)	
SIMULATOR VAPOR 34.0°C		0.024	07:31
X[1] = 0.0245	(-0.0003)	(0.0004)	
SIMULATOR VAPOR 34.0°C		0.024	07:32
X[1] = 0.0244	(-0.0005)	(0.0002)	
SIMULATOR VAPOR 34.0°C		0.024	07:34
X[1] = 0.0244	(-0.0007)	(0.0004)	
SIMULATOR VAPOR 34.0°C		0.024	07:35
X[1] = 0.0244	(-0.0005)	(0.0002)	
SIMULATOR VAPOR 34.0°C		0.024	07:36
X[1] = 0.0244	(-0.0009)	(0.0002)	
SIMULATOR VAPOR 34.0°C		0.024	07:37
X[1] = 0.0244	(-0.0019)	(0.0004)	
SIMULATOR VAPOR 34.0°C		0.025	07:38
X[1] = 0.0247	(0.0000)	(0.0004)	
SIMULATOR VAPOR 34.0°C		0.024	07:39
X[1] = 0.0245	(-0.0023)	(0.0003)	
BLANK TEST		0.000	07:40

Average = 0.024
Std Dev = 0.0002



100140 JSD 12

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMaster DMT: 100140

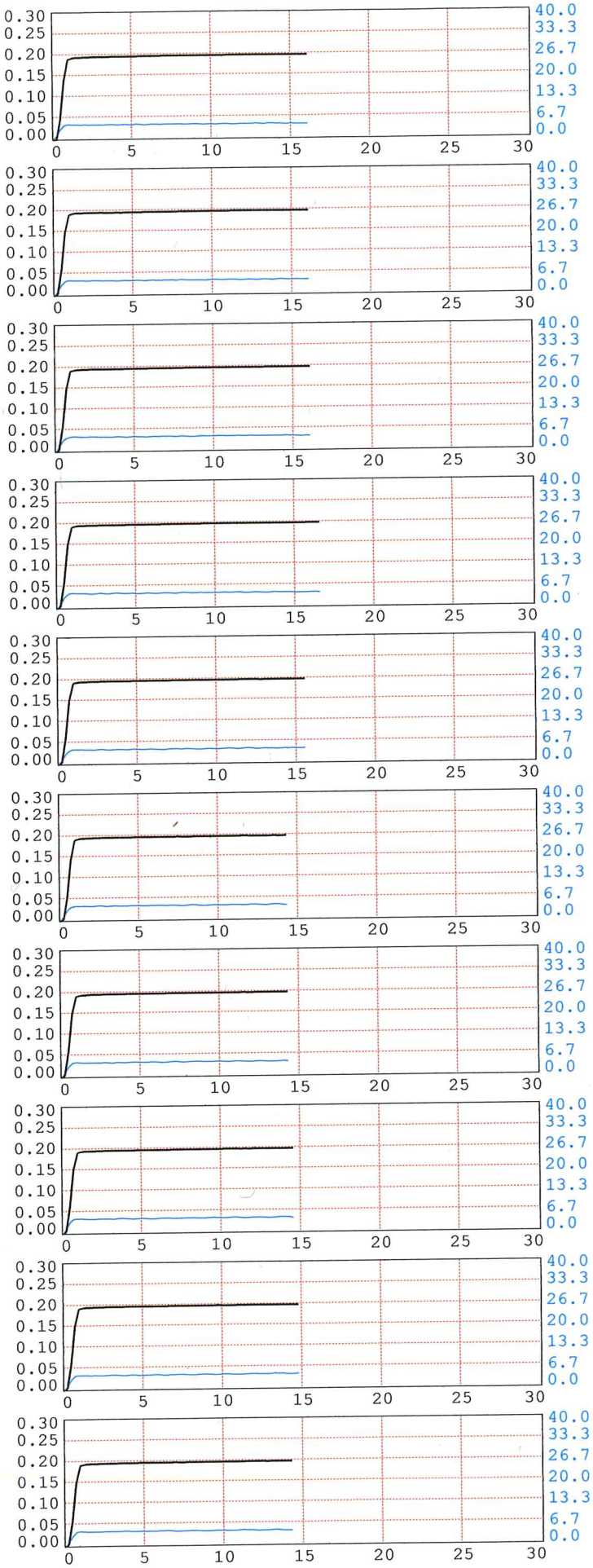
Date: 8/6/2025
Time: 07:59:31

SUPERVISOR NAME:
JEFF DUKETTE

SOLUTION LOT #: 25-14-200
SOLUTION CONCENTRATION: 0.207

BLANK TEST		0.000	08:00
SIMULATOR VAPOR 34.0°C		0.196	08:00
X[1] = 0.1963	(-0.0014)	(0.0005)	
SIMULATOR VAPOR 34.0°C		0.196	08:02
X[1] = 0.1965	(-0.0006)	(-0.0004)	
SIMULATOR VAPOR 34.0°C		0.197	08:03
X[1] = 0.1969	(-0.0010)	(-0.0002)	
SIMULATOR VAPOR 34.0°C		0.197	08:04
X[1] = 0.1972	(-0.0001)	(-0.0002)	
SIMULATOR VAPOR 34.0°C		0.197	08:05
X[1] = 0.1970	(-0.0004)	(-0.0004)	
SIMULATOR VAPOR 34.0°C		0.197	08:07
X[1] = 0.1966	(-0.0005)	(-0.0005)	
SIMULATOR VAPOR 34.0°C		0.197	08:08
X[1] = 0.1970	(-0.0004)	(-0.0004)	
SIMULATOR VAPOR 34.0°C		0.197	08:09
X[1] = 0.1970	(0.0017)	(-0.0004)	
SIMULATOR VAPOR 34.0°C		0.197	08:10
X[1] = 0.1969	(-0.0012)	(-0.0002)	
SIMULATOR VAPOR 34.0°C		0.197	08:12
X[1] = 0.1969	(-0.0010)	(-0.0006)	
BLANK TEST		0.000	08:12

Average = 0.197
Std Dev = 0.0003



100140 JD 13

ACCURACY & PRECISION REPORT

STATE OF VERMONT

DataMaster DMT: 100140

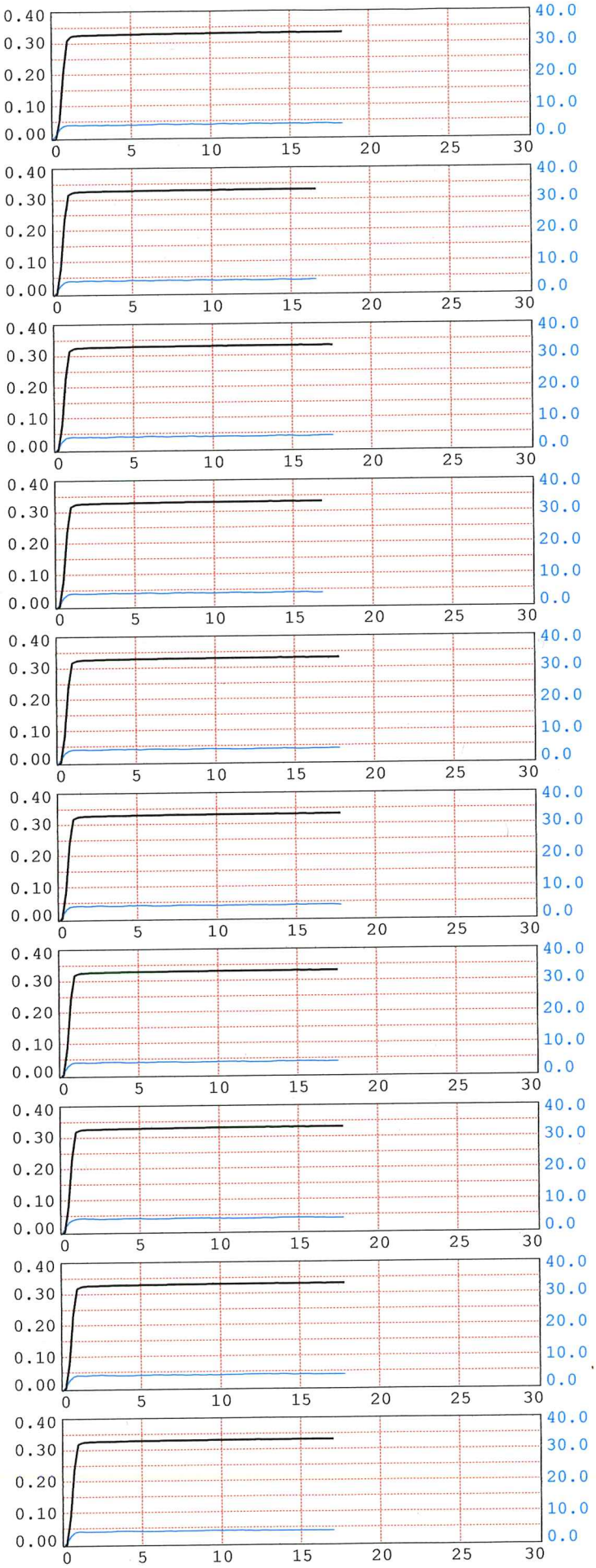
Date: 8/6/2025
Time: 08:27:42

SUPERVISOR NAME:
JEFF DUKETTE

SOLUTION LOT #: 24-19-340
SOLUTION CONCENTRATION: 0.347

BLANK TEST	0.000	08:28
SIMULATOR VAPOR 34.0°C	0.330	08:29
X[1] = 0.3299 (-0.0005) (0.0004)		
SIMULATOR VAPOR 34.0°C	0.330	08:30
X[1] = 0.3299 (0.0000) (-0.0011)		
SIMULATOR VAPOR 34.0°C	0.330	08:31
X[1] = 0.3299 (-0.0003) (-0.0011)		
SIMULATOR VAPOR 34.0°C	0.330	08:32
X[1] = 0.3301 (0.0002) (-0.0011)		
SIMULATOR VAPOR 34.0°C	0.330	08:34
X[1] = 0.3303 (0.0006) (-0.0014)		
SIMULATOR VAPOR 34.0°C	0.330	08:35
X[1] = 0.3303 (0.0000) (-0.0012)		
SIMULATOR VAPOR 34.0°C	0.330	08:36
X[1] = 0.3302 (0.0005) (-0.0010)		
SIMULATOR VAPOR 34.0°C	0.330	08:38
X[1] = 0.3302 (-0.0002) (-0.0013)		
SIMULATOR VAPOR 34.0°C	0.330	08:39
X[1] = 0.3303 (-0.0001) (-0.0008)		
SIMULATOR VAPOR 34.0°C	0.330	08:40
X[1] = 0.3302 (0.0020) (-0.0008)		
BLANK TEST	0.000	08:41

Average = 0.330
Std Dev = 0.0002



100140 JSD 14