


2

1/29/2015

**Worklist: 569**

<u>LAB_CASE</u>	<u>ITEM</u>	<u>TASK_ID</u>	<u>DESCRIPTION</u>	
P2014-2298	1	27311	3.10.3 Blood confirmation of co	
P2014-2548	1	27313	3.10.3 Blood confirmation of co	
P2014-2550	1	27315	3.10.3 Blood confirmation of co	
P2014-2682	1	27316	3.10.3 Blood confirmation of co	
P2014-2753	1	27322	3.10.3 Blood confirmation of co	
P2014-2929	1	27323	3.10.3 Blood confirmation of co	
P2014-2965	1	27324	3.10.3 Blood confirmation of co	
P2014-2966	1	27325	3.10.3 Blood confirmation of co	

Reviewed by DND (verified on peer review pg of each applicable case).  07/09/2015

POC\_AM 3.10.3-01212015

Simulate Run Sequence Tue Jan 27 20:45:15 2015

Instrument Name: Probie  
 Sequence File: C:\msdchem\1\sequence\CS-OPPLUS012715.s  
 Comment:  
 Operator: Pocatello Laboratory  
 Data Path: C:\MSDCHEM\1\DATA\CS\2015\012715OP\  
 Method Path: C:\MSDCHEM\1\METHODS\

Line	Type	Vial	DataFile	Method	Sample Name
1)	Sample	100	Pre-run Solvent Blank		
	Datafile		Pre-runSolventBlk		
	Method		AM-3-10-3-3		
2)	Sample	9	750ng/mL Positive Control		
	Datafile		Pre-runPC-FS		
	Method		AM3-10-3-FS		
3)	Sample	9	750ng/mL Positive Control		
	Datafile		Pre-runPC		
	Method		AM-3-10-3-3		
4)	Sample	99	Pre-run Solvent Blank		
	Datafile		Pre-BlankSolventBlk		
	Method		AM-3-10-3-3		
5)	Sample	1	Negative Whole Blood Utak Lot B0130		
	Datafile		NegativeWholeBlood		
	Method		AM-3-10-3-3		
6)	Sample	1	Negative Whole Blood Utak Lot B0130		
	Datafile		NegativeWholeBlood-FS		
	Method		AM3-10-3-FS		
7)	Sample	2	Calibrator Level 1: 25ng/mL		
	Datafile		CalLevel-1-25		
	Method		AM-3-10-3-3		
8)	Sample	3	Calibrator Level 2: 50ng/mL		
	Datafile		CalLevel-2-50		
	Method		AM-3-10-3-3		
9)	Sample	4	Calibrator Level 3: 100ng/mL		
	Datafile		CalLevel-3-100		
	Method		AM-3-10-3-3		
10)	Sample	5	Calibrator Level 4: 250ng/mL		
	Datafile		CalLevel-4-250		
	Method		AM-3-10-3-3		
11)	Sample	6	Calibrator Level 5: 500ng/mL		
	Datafile		CalLevel-5-500		
	Method		AM-3-10-3-3		
12)	Sample	7	Calibrator Level 6: 1000ng/mL		
	Datafile		CalLevel-6-1000		
	Method		AM-3-10-3-3		
13)	Sample	98	Solvent Blank		
	Datafile		SolventBlk		
	Method		AM-3-10-3-3		
14)	Sample	8	75ng/mL Positive Control		
	Datafile		PC-75-1		
	Method		AM-3-10-3-3		
15)	Sample	9	750ng/mL Positive Control		
	Datafile		PC-750-1		
	Method		AM-3-10-3-3		
16)	Sample	97	Lab No.: P2014-2298-1 Blank		

	Datafile		P2014-2298-1 BLK
	Method		AM3-10-3-FS
17)	Sample	10	Lab No.: P2014-2298-1
	Datafile		P2014-2298-1
	Method		AM-3-10-3-3
18)	Sample	10	Lab No.: P2014-2298-1
	Datafile		P2014-2298-1 FS
	Method		AM3-10-3-FS
19)	Sample	96	Lab No.: P2014-2548-1 Blank
	Datafile		P2014-2548-1 BLK
	Method		AM3-10-3-FS
20)	Sample	11	Lab No.: P2014-2548-1
	Datafile		P2014-2548-1
	Method		AM-3-10-3-3
21)	Sample	11	Lab No.: P2014-2548-1
	Datafile		P2014-2548-1 FS
	Method		AM3-10-3-FS
22)	Sample	95	Lab No.: P2014-2550-1 Blank
	Datafile		P2014-2550-1 BLK
	Method		AM3-10-3-FS
23)	Sample	12	Lab No.: P2014-2550-1
	Datafile		P2014-2550-1
	Method		AM-3-10-3-3
24)	Sample	12	Lab No.: P2014-2550-1
	Datafile		P2014-2550-1 FS
	Method		AM3-10-3-FS
25)	Sample	94	Lab No.: P2014-2682-1 Blank
	Datafile		P2014-2682-1 BLK
	Method		AM3-10-3-FS
26)	Sample	13	Lab No.: P2014-2682-1
	Datafile		P2014-2682-1
	Method		AM-3-10-3-3
27)	Sample	13	Lab No.: P2014-2682-1
	Datafile		P2014-2682-1 FS
	Method		AM3-10-3-FS
28)	Sample	93	Lab No.: P2014-2753-1 Blank
	Datafile		P2014-2753-1 BLK
	Method		AM3-10-3-FS
29)	Sample	14	Lab No.: P2014-2753-1
	Datafile		P2014-2753-1
	Method		AM-3-10-3-3
30)	Sample	14	Lab No.: P2014-2753-1
	Datafile		P2014-2753-1 FS
	Method		AM3-10-3-FS
31)	Sample	92	Lab No.: P2014-2929-1 Blank
	Datafile		P2014-2929-1 BLK
	Method		AM3-10-3-FS
32)	Sample	15	Lab No.: P2014-2929-1
	Datafile		P2014-2929-1
	Method		AM-3-10-3-3
33)	Sample	15	Lab No.: P2014-2929-1
	Datafile		P2014-2929-1 FS
	Method		AM3-10-3-FS
34)	Sample	91	Lab No.: P2014-2965-1 Blank
	Datafile		P2014-2965-1 BLK
	Method		AM3-10-3-FS
35)	Sample	16	Lab No.: P2014-2965-1

1/27/15 09

```
Datafile      P2014-2965-1
Method        AM-3-10-3-3
36) Sample    16 Lab No.: P2014-2965-1
   Datafile   P2014-2965-1 FS
   Method     AM3-10-3-FS
37) Sample    90 Lab No.: P2014-2966-1 Blank
   Datafile   P2014-2966-1 BLK
   Method     AM3-10-3-FS
38) Sample    17 Lab No.: P2014-2966-1
   Datafile   P2014-2966-1
   Method     AM-3-10-3-3
39) Sample    17 Lab No.: P2014-2966-1
   Datafile   P2014-2966-1 FS
   Method     AM3-10-3-FS
40) Sample    89 Post-run Solvent Blank
   Datafile   Post-Blank
   Method     AM-3-10-3-3
41) Pause: ' '
42) Sample    92 Pre-NES Solvent Blank
   Datafile   Pre-NESBlk
   Method     AM-3-10-3-3
43) Sample    15 Non-extracted Reference Materials 1
   Datafile   NES RMs 1 - TMS Derivative
   Method     AM3-10-3-FS
44) Sample    16 Non-extracted Reference Materials 2
   Datafile   NES RMs 2 - TMS Derivative
   Method     AM3-10-3-FS
45) Sample    17 Non-extracted Reference Materials 3
   Datafile   NES RMs 3 - TMS Derivative
   Method     AM3-10-3-FS
46) Sample    18 Non-extracted Reference Materials 4
   Datafile   NES RMs 4 - TMS Derivative
   Method     AM3-10-3-FS
47) Sample    91 Post-NES Solvent Blank
   Datafile   Post-NESBlk
   Method     AM-3-10-3-3
Bytes Needed: 27661168 Space on drive C: 4.36797e+011
Sequence Verification Done!
```

POC\_AM 3.

CDS

Idaho State Police  
Forensic Services  
Toxicology Discipline

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**Request for Departure from an Analytical Method**

---

Date of Request

01/27/2015

Forensic Scientist

Celena Shrum

Analytical Method

**3.10.3** Extraction and Quantitation of Free (Unbound) Codeine and Morphine in Blood Employing the United Chemical Technologies (UCT) 200 mg CLEAN SCREEN® DAU Extraction Column

Request

I request permission to use air to dry down the samples instead of nitrogen as we are temporarily out of nitrogen. The controls extracted alongside the samples will allow me to determine if this created a problem; however I do not anticipate this causing any problems as air is approximately 78% nitrogen.

**Discipline Leader Review**

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Departure Approved

Comments: *Approved via text message on 01/27/15.*

Departure Not Approved

Comments:



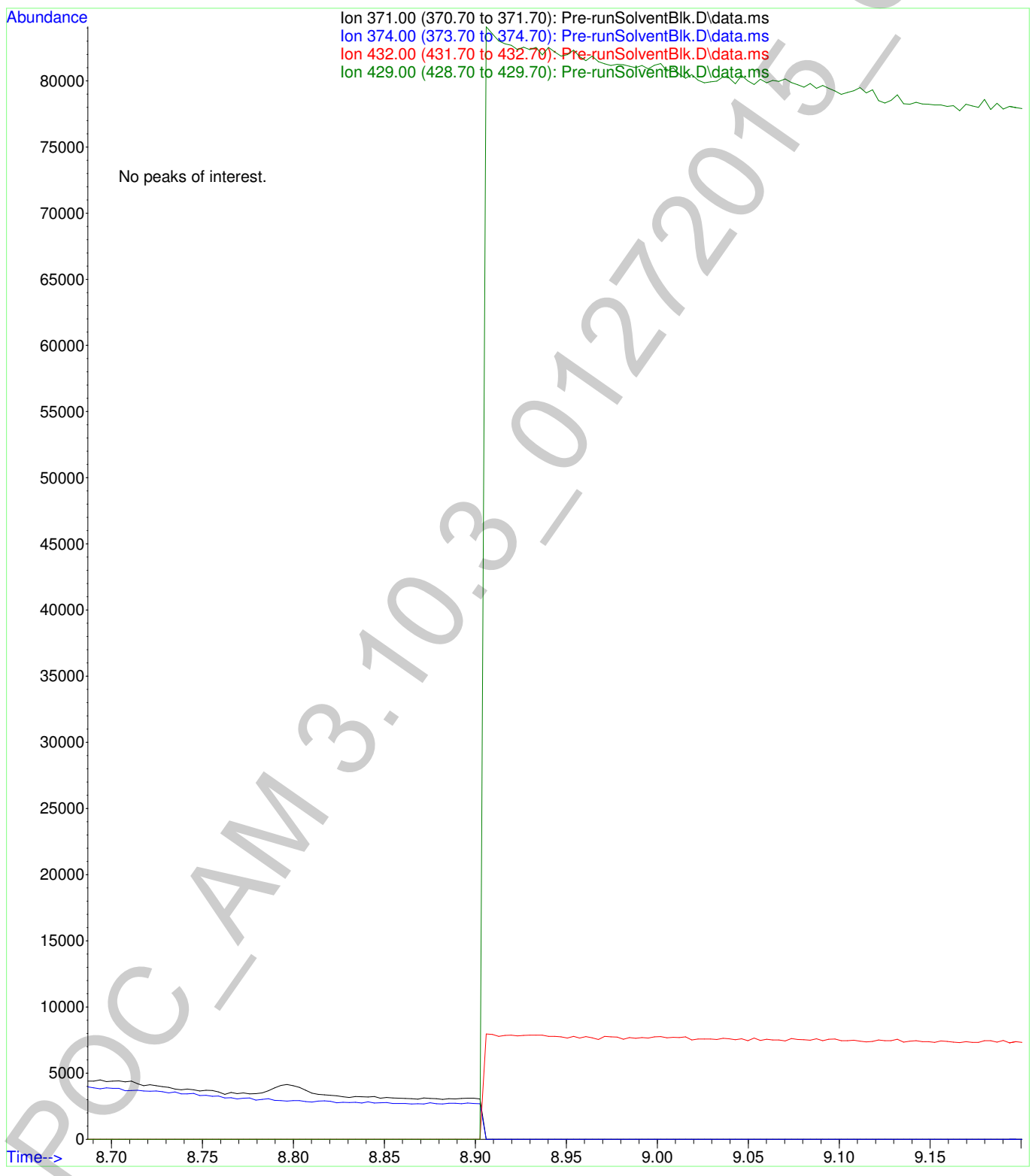
Delisa N. Downey

Toxicology Program Discipline Leader

Date: *02/02/15.*

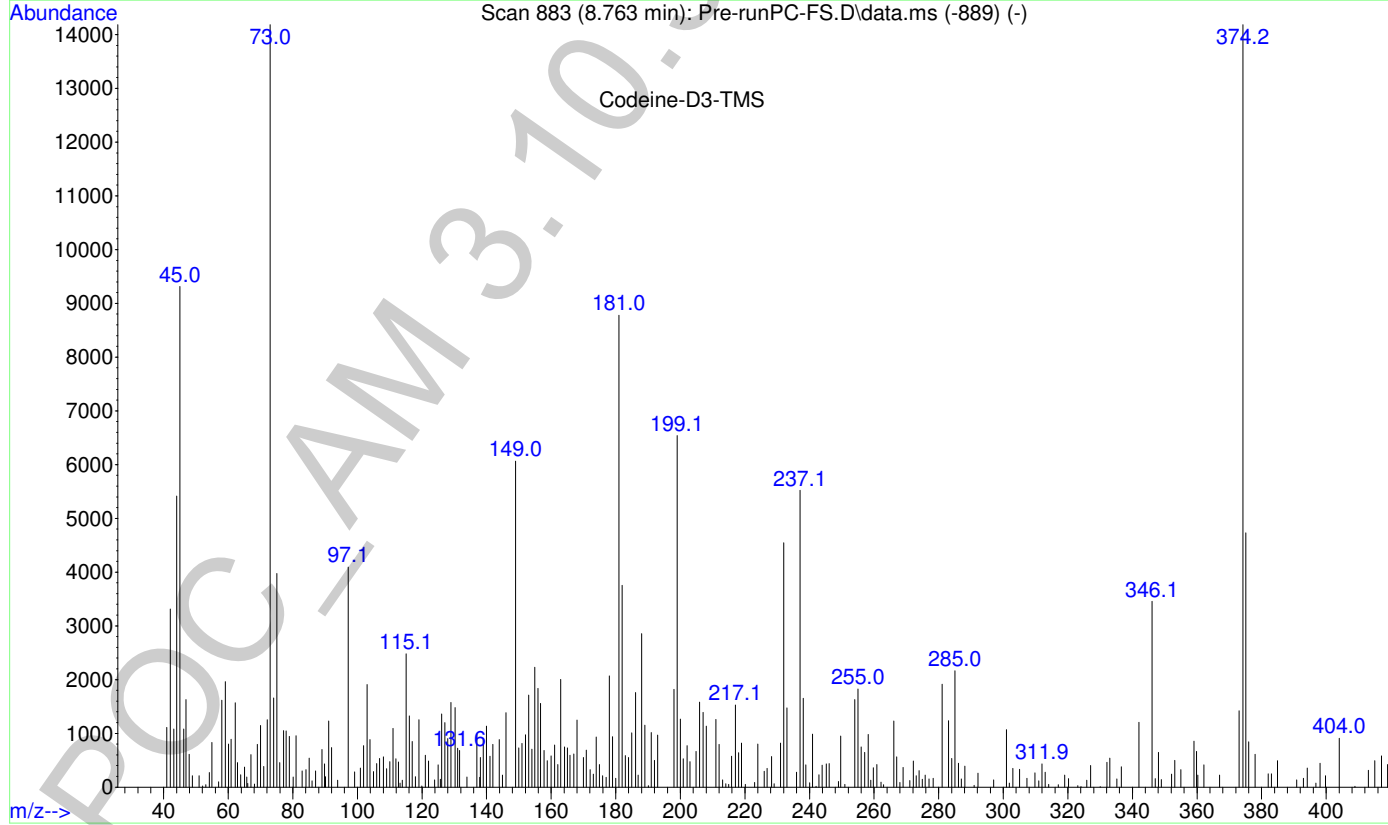
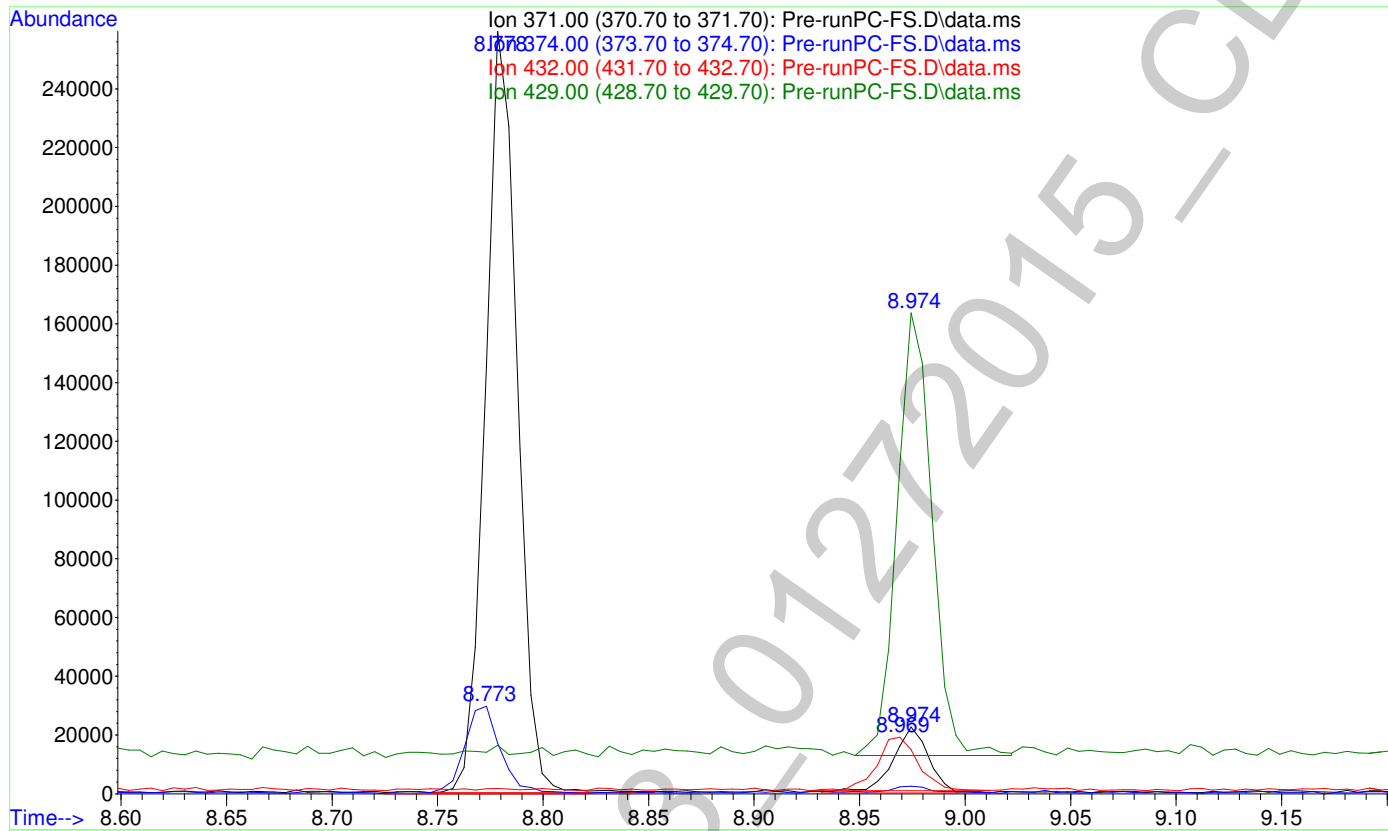
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File :F:\Data\012715OP\Pre-runSolventBlk.D  
Operator : Pocatello Laboratory  
Acquired : 27 Jan 2015 21:34 using AcqMethod AM-3-10-3-3.M  
Instrument : Probie  
Sample Name: Pre-run Solvent Blank  
Misc Info : CHCl3  
Vial Number: 100



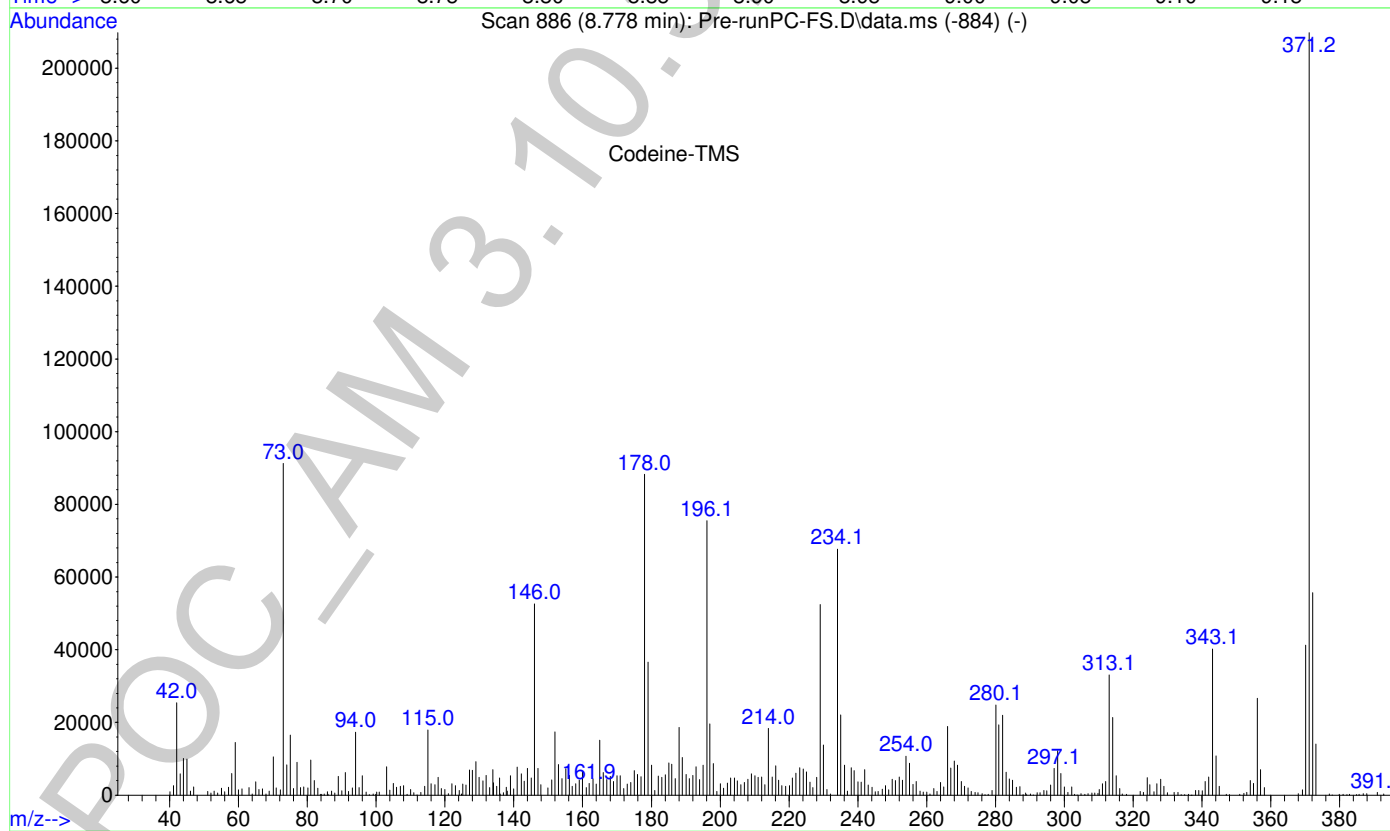
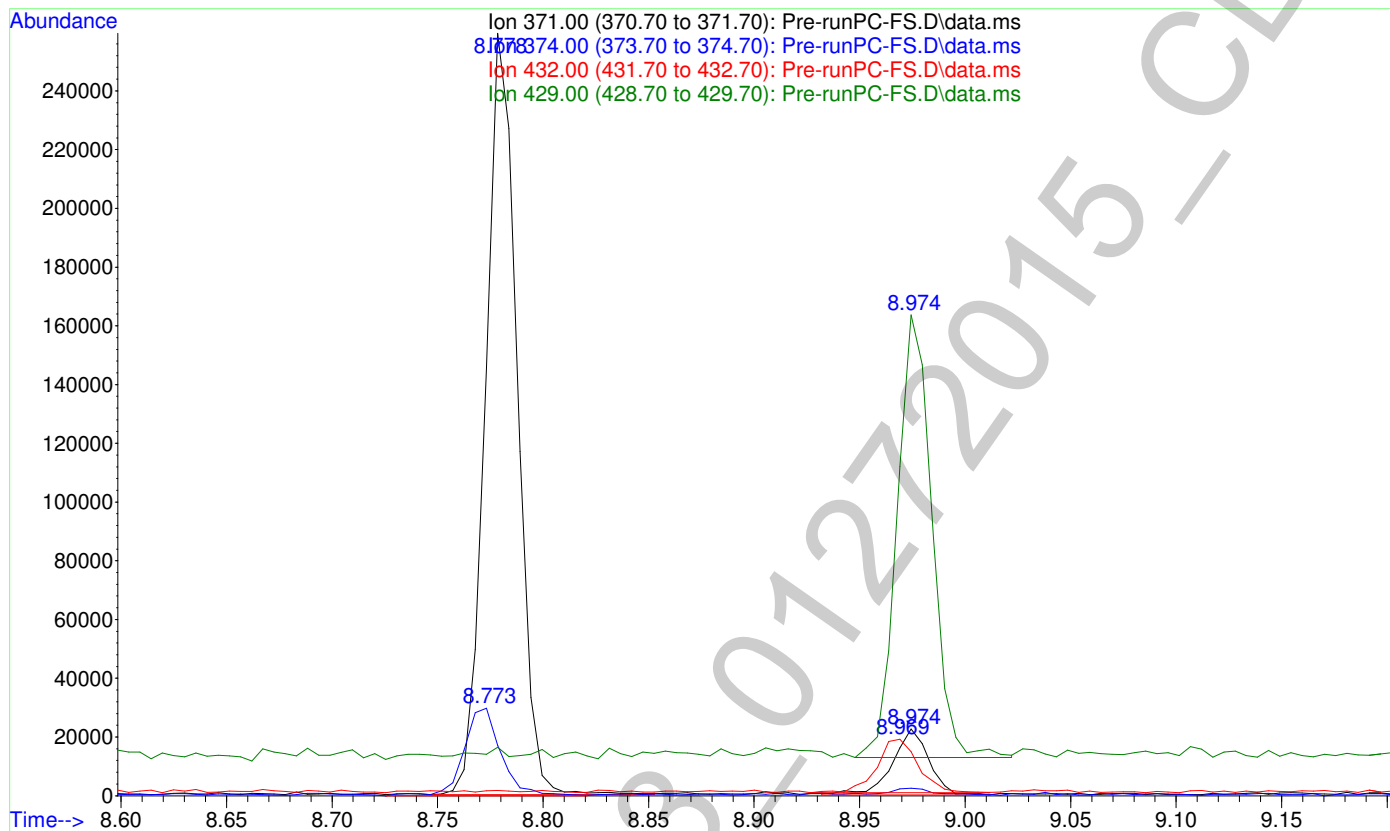
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Operator : Pocatello Laboratory  
Acquired : 27 Jan 2015 21:53 using AcqMethod AM3-10-3-FS.M  
Instrument : Probie  
Sample Name: 750ng/mL Positive Control  
Misc Info : Analytical Method 3.10.3  
Vial Number: 9

6



2

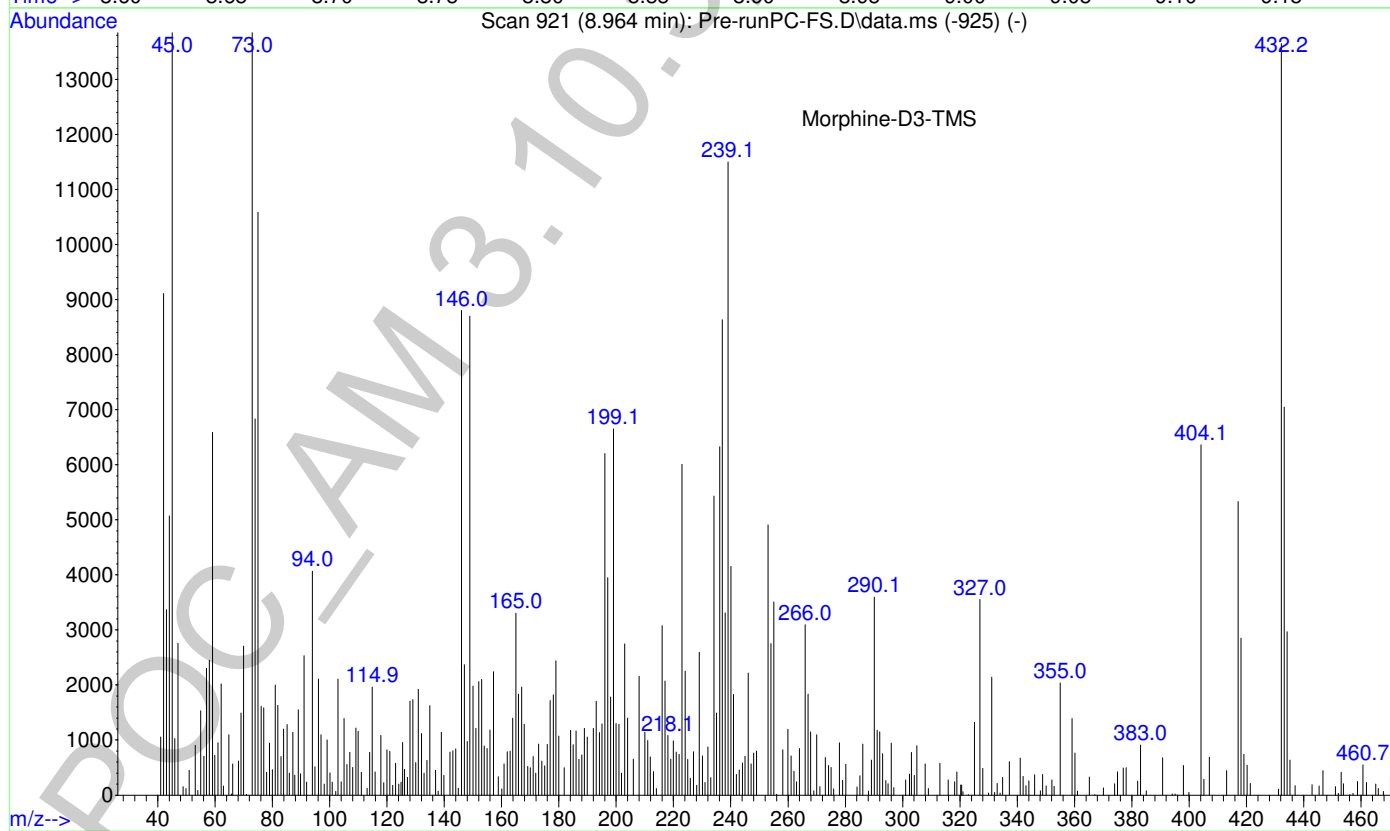
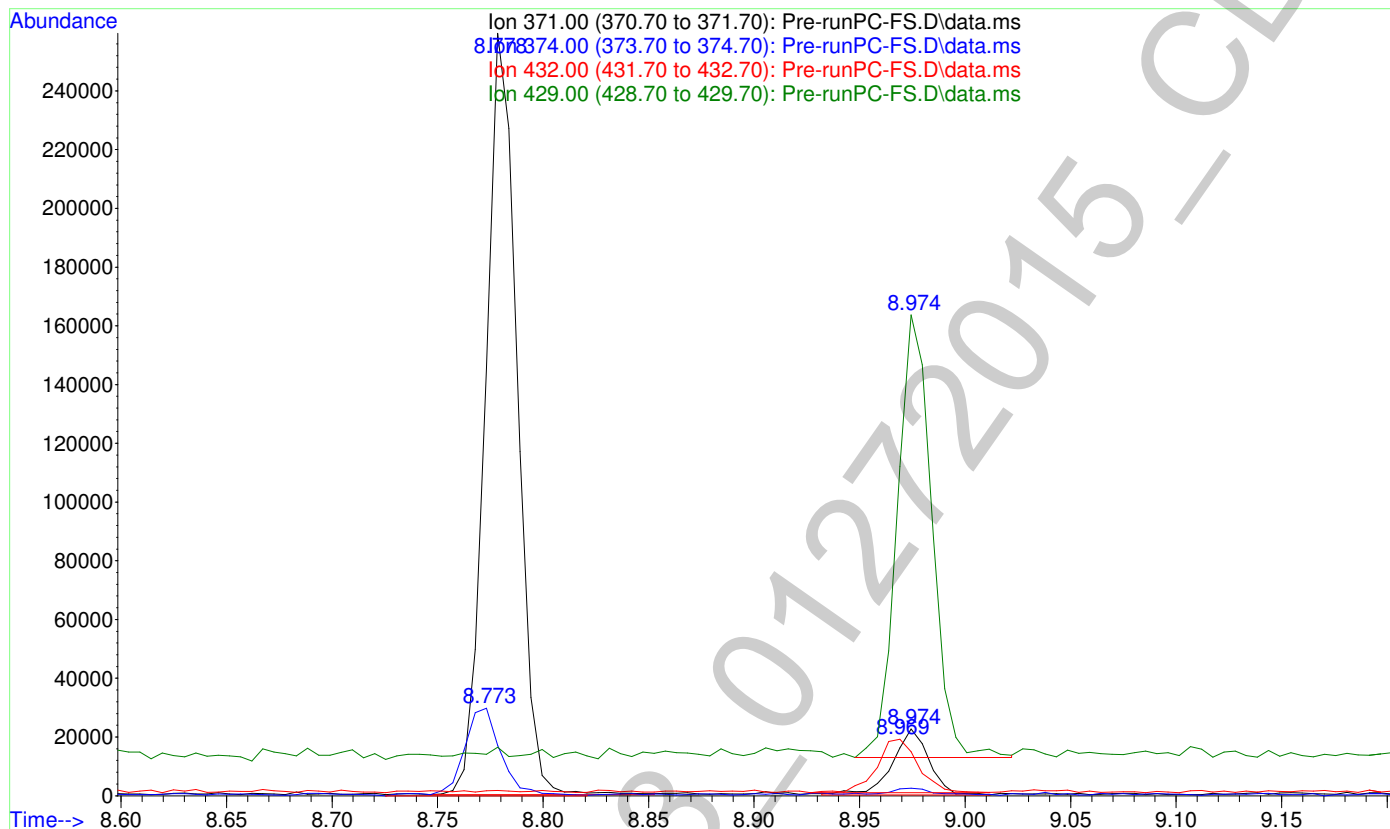
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Instrument : Probie  
Sample Name: 750ng/mL Positive Control  
Misc Info : Analytical Method 3.10.3  
Vial Number: 9





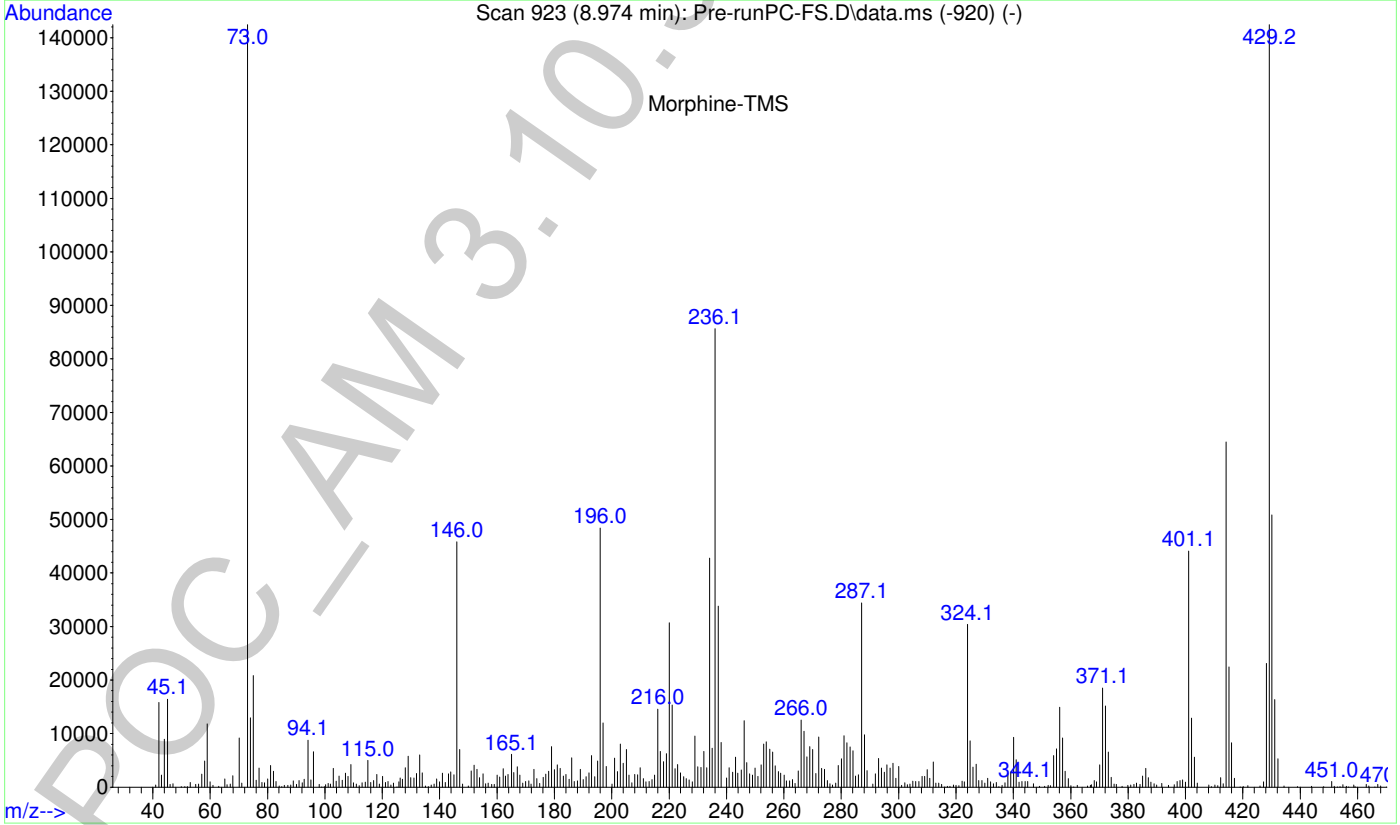
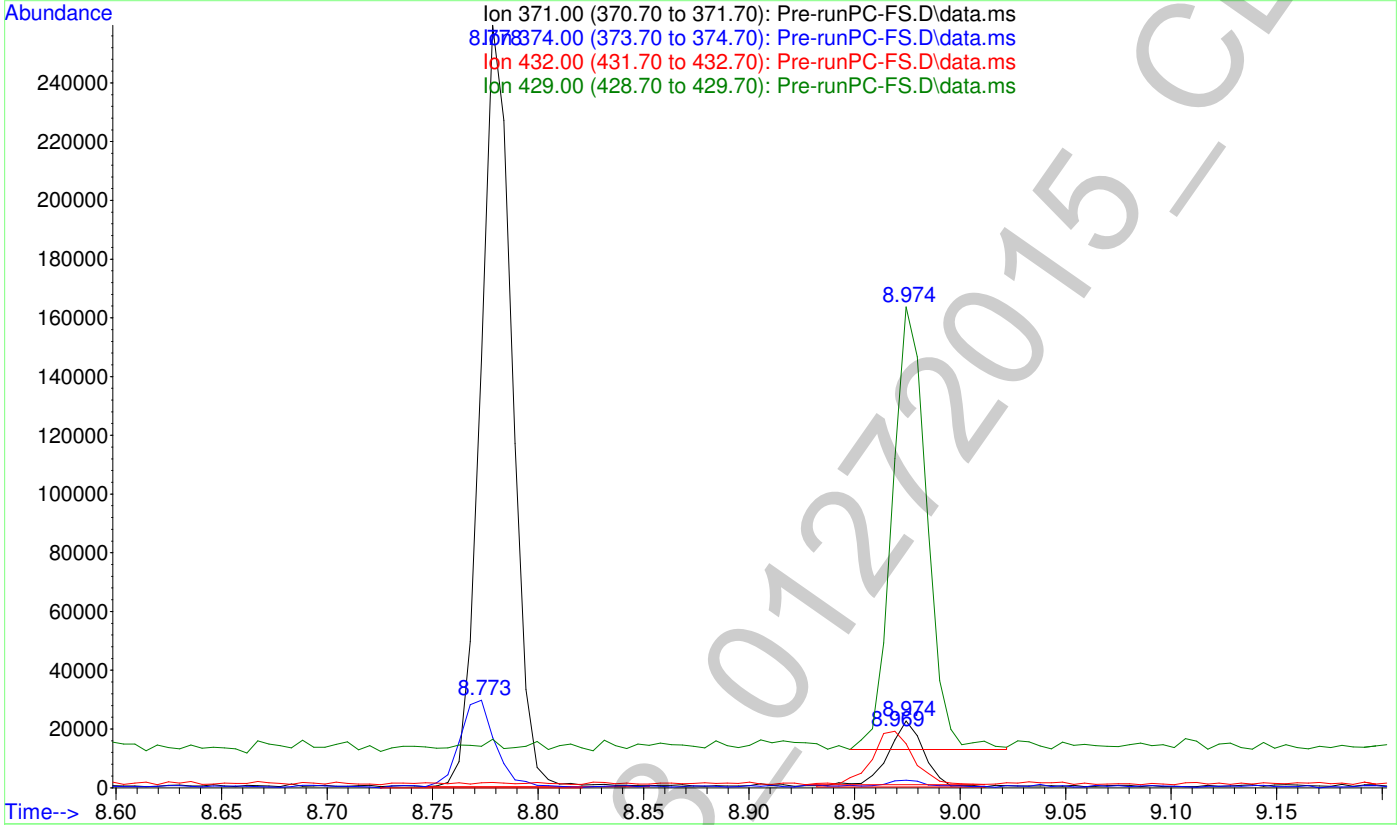
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File :F:\Data\012715OP\Pre-runPC-FS.D  
Operator : Pocatello Laboratory  
Acquired : 27 Jan 2015 21:53 using AcqMethod AM3-10-3-FS.M  
Instrument : Probie  
Sample Name: 750ng/mL Positive Control  
Misc Info : Analytical Method 3.10.3  
Vial Number: 9



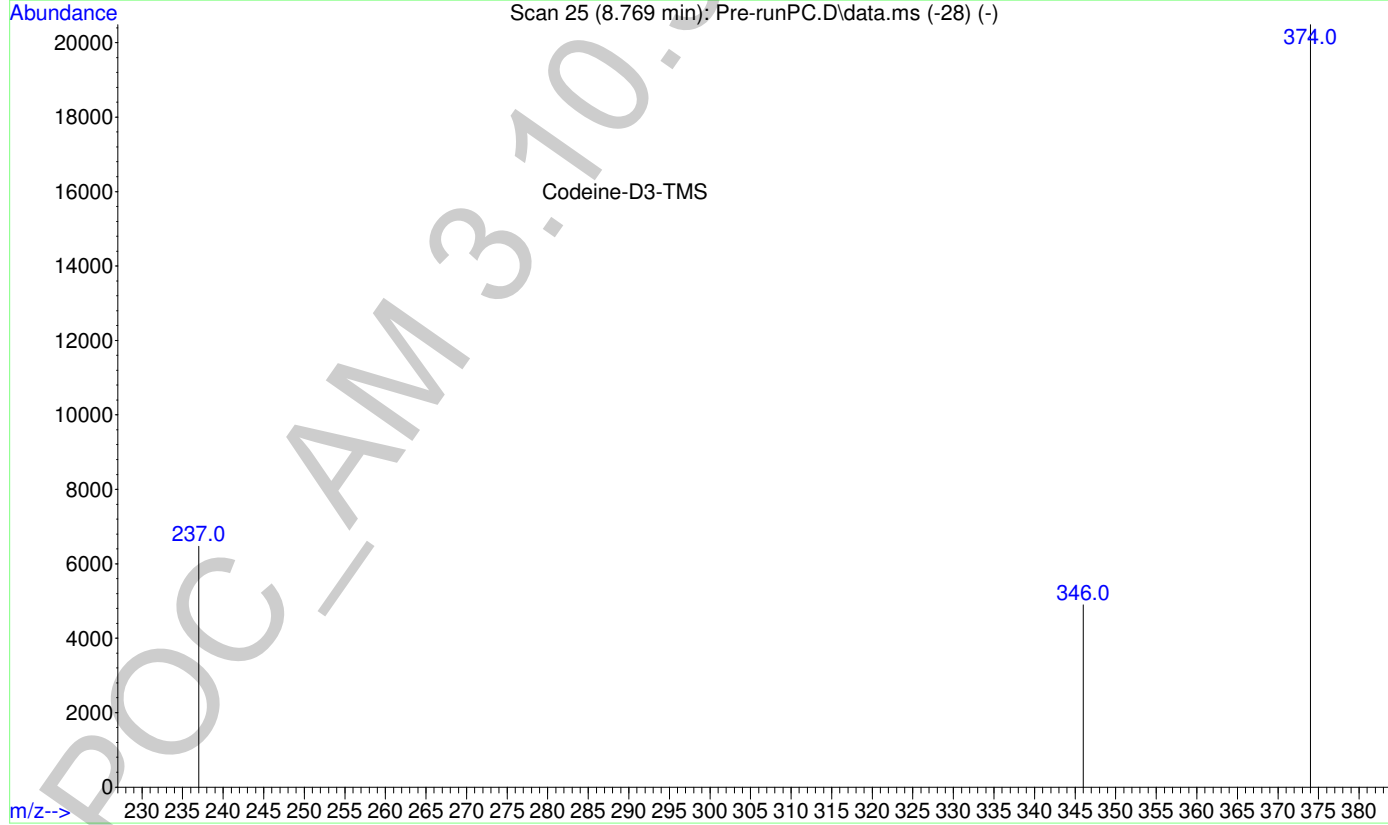
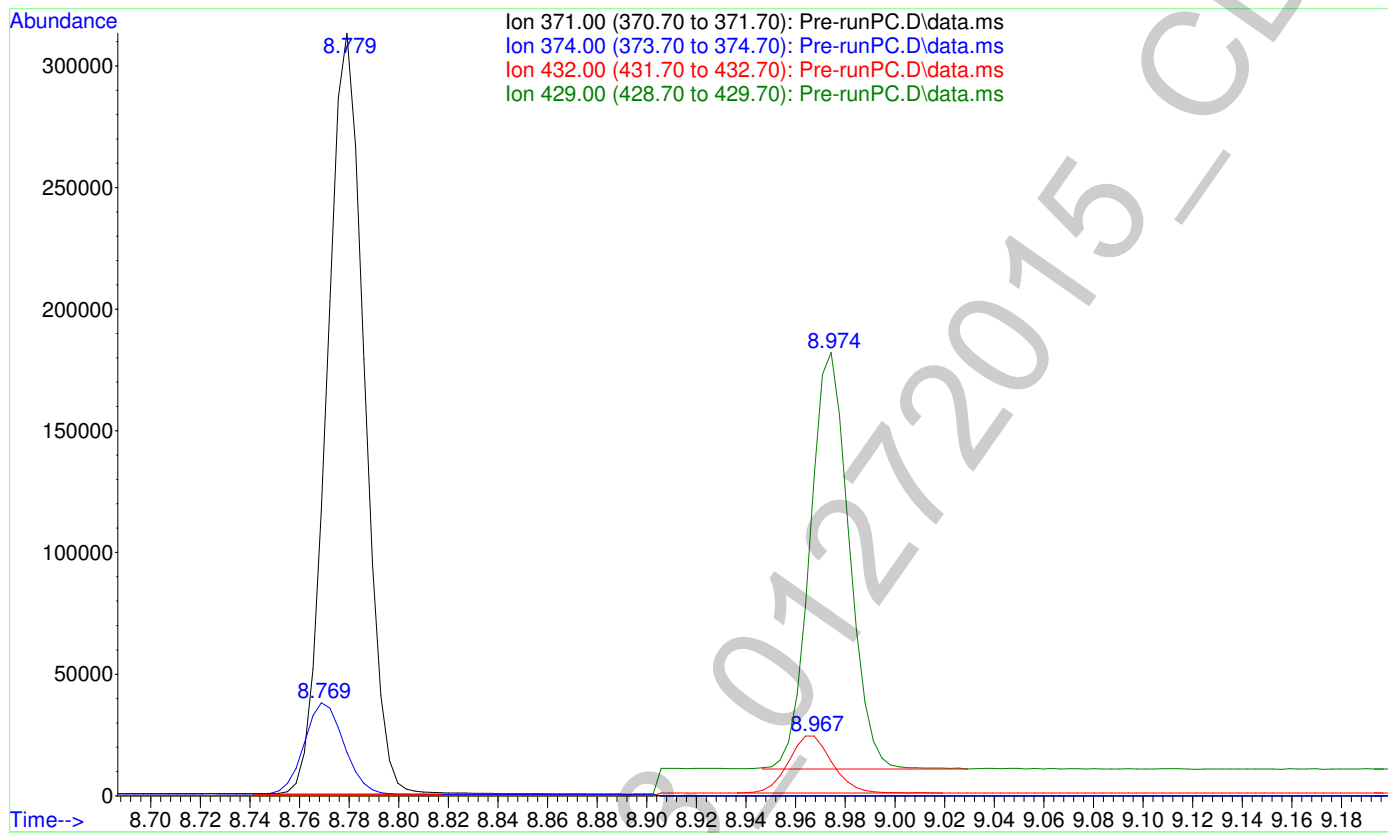
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File :F:\Data\012715OP\Pre-runPC-FS.D  
Operator : Pocatello Laboratory  
Acquired : 27 Jan 2015 21:53 using AcqMethod AM3-10-3-FS.M  
Instrument : Probie  
Sample Name: 750ng/mL Positive Control  
Misc Info : Analytical Method 3.10.3  
Vial Number: 9



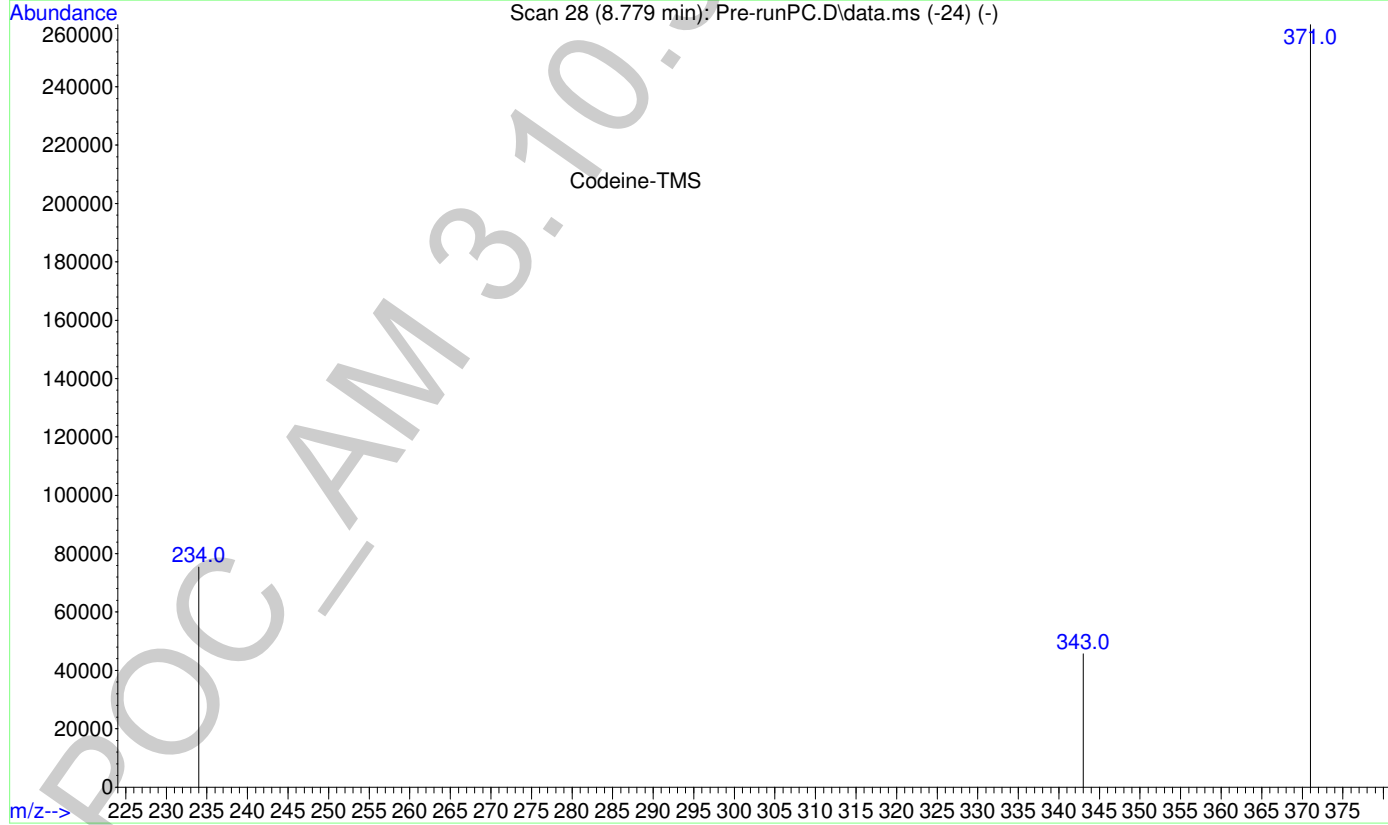
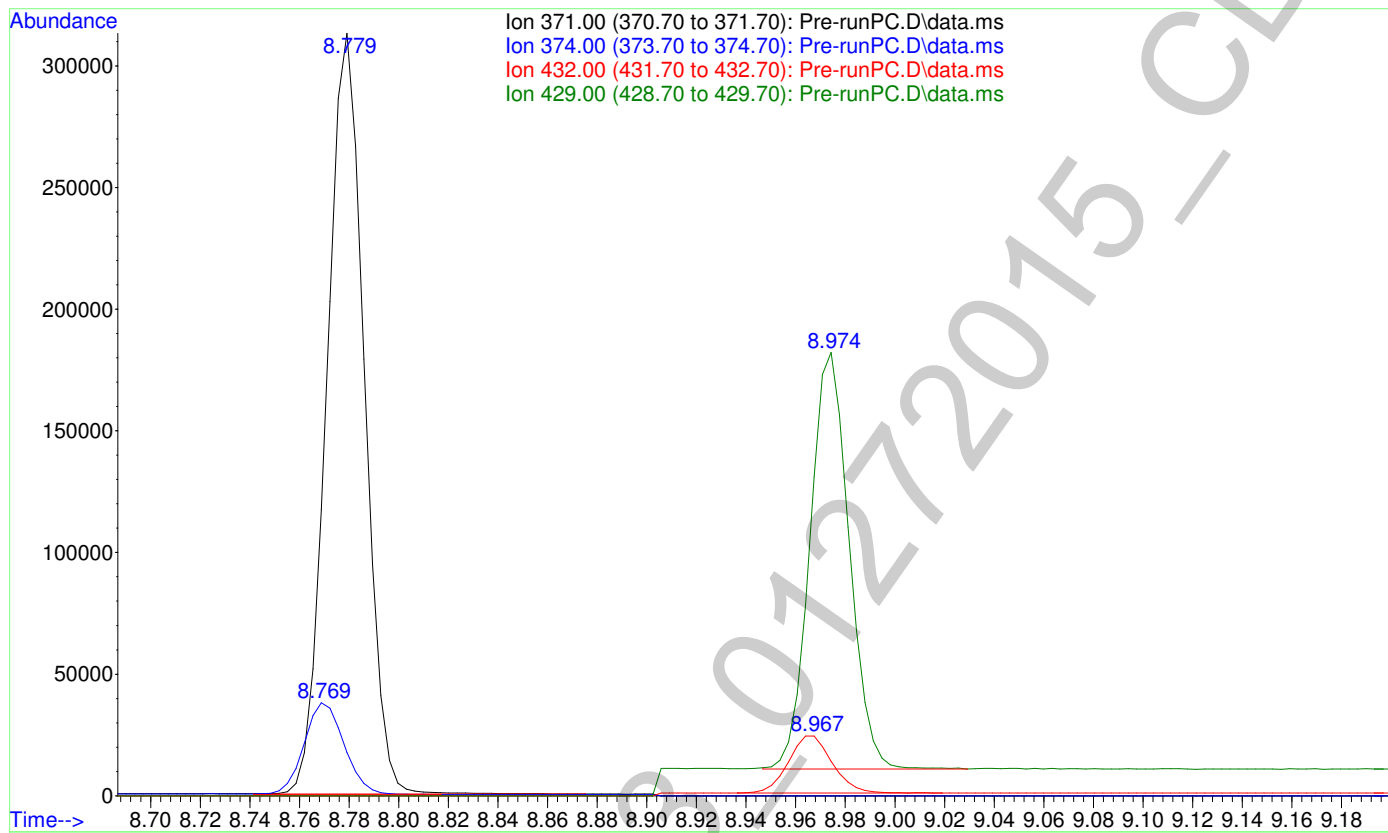
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File :F:\Data\012715OP\Pre-runPC.D  
Operator : Pocatello Laboratory  
Acquired : 27 Jan 2015 22:11 using AcqMethod AM-3-10-3-3.M  
Instrument : Probie  
Sample Name: 750ng/mL Positive Control  
Misc Info : Analytical Method 3.10.3  
Vial Number: 9



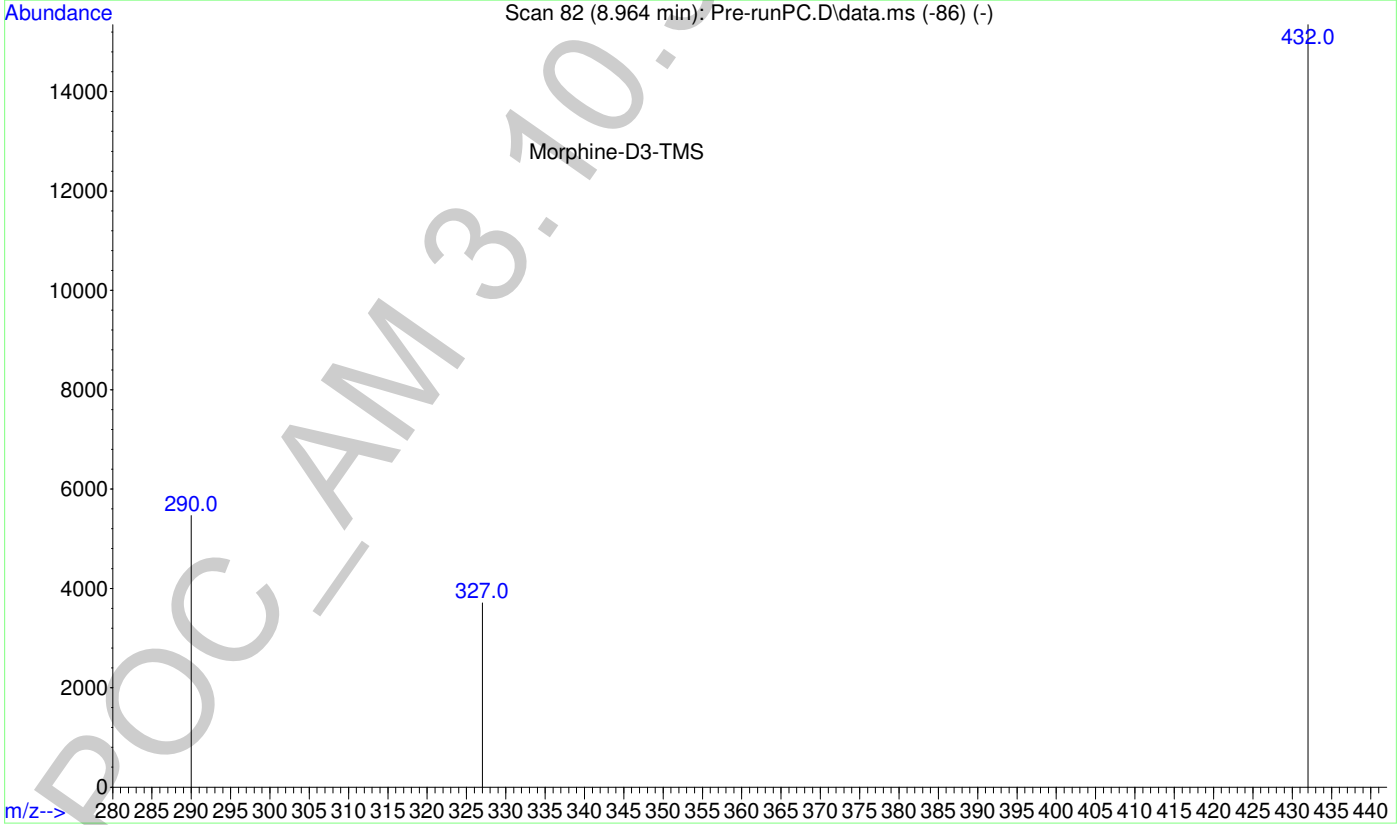
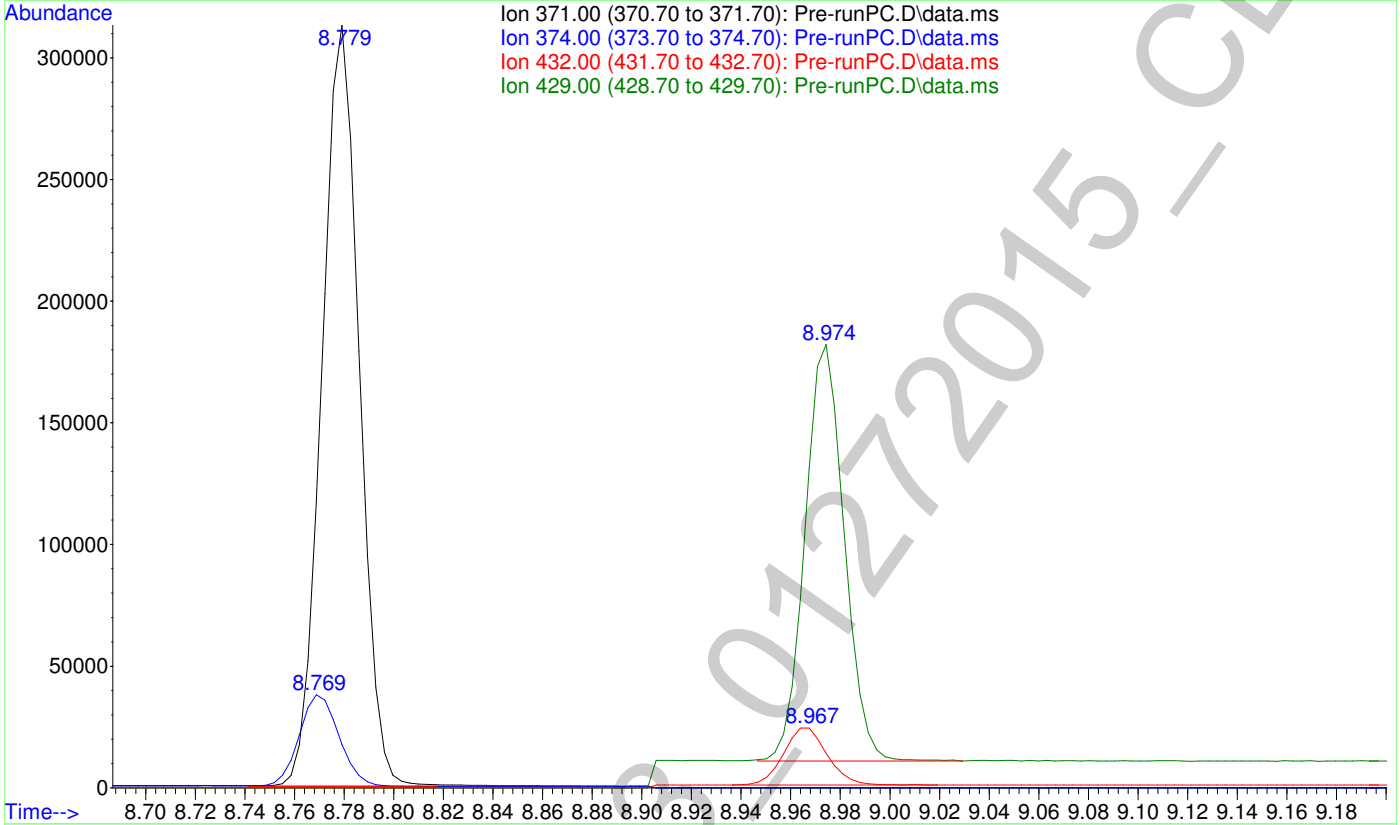
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Operator : Pocatello Laboratory  
Acquired : 27 Jan 2015 22:11 using AcqMethod AM-3-10-3-3.M  
Instrument : Probie  
Sample Name: 750ng/mL Positive Control  
Misc Info : Analytical Method 3.10.3  
Vial Number: 9



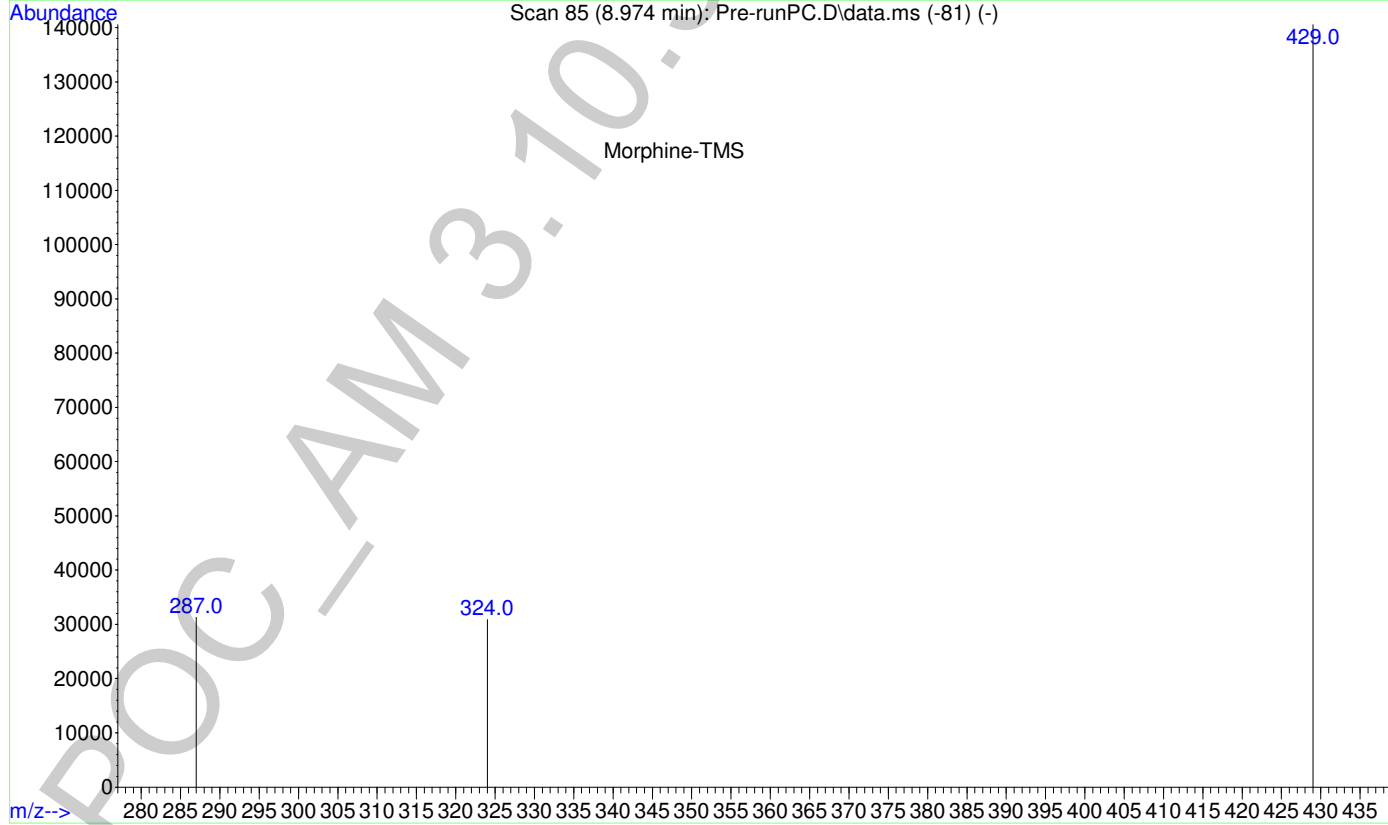
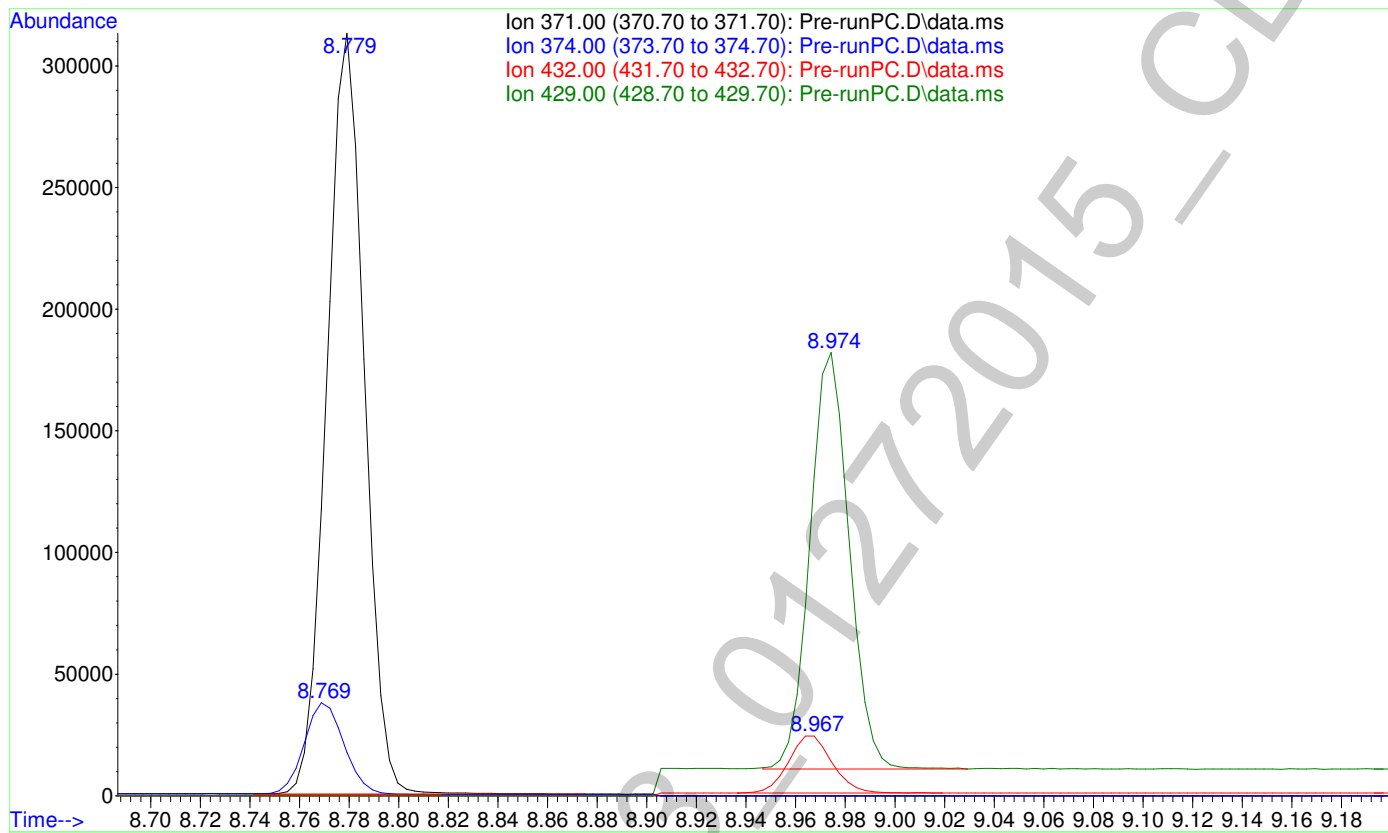
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Instrument : Probie  
Sample Name: 750ng/mL Positive Control  
Misc Info : Analytical Method 3.10.3  
Vial Number: 9



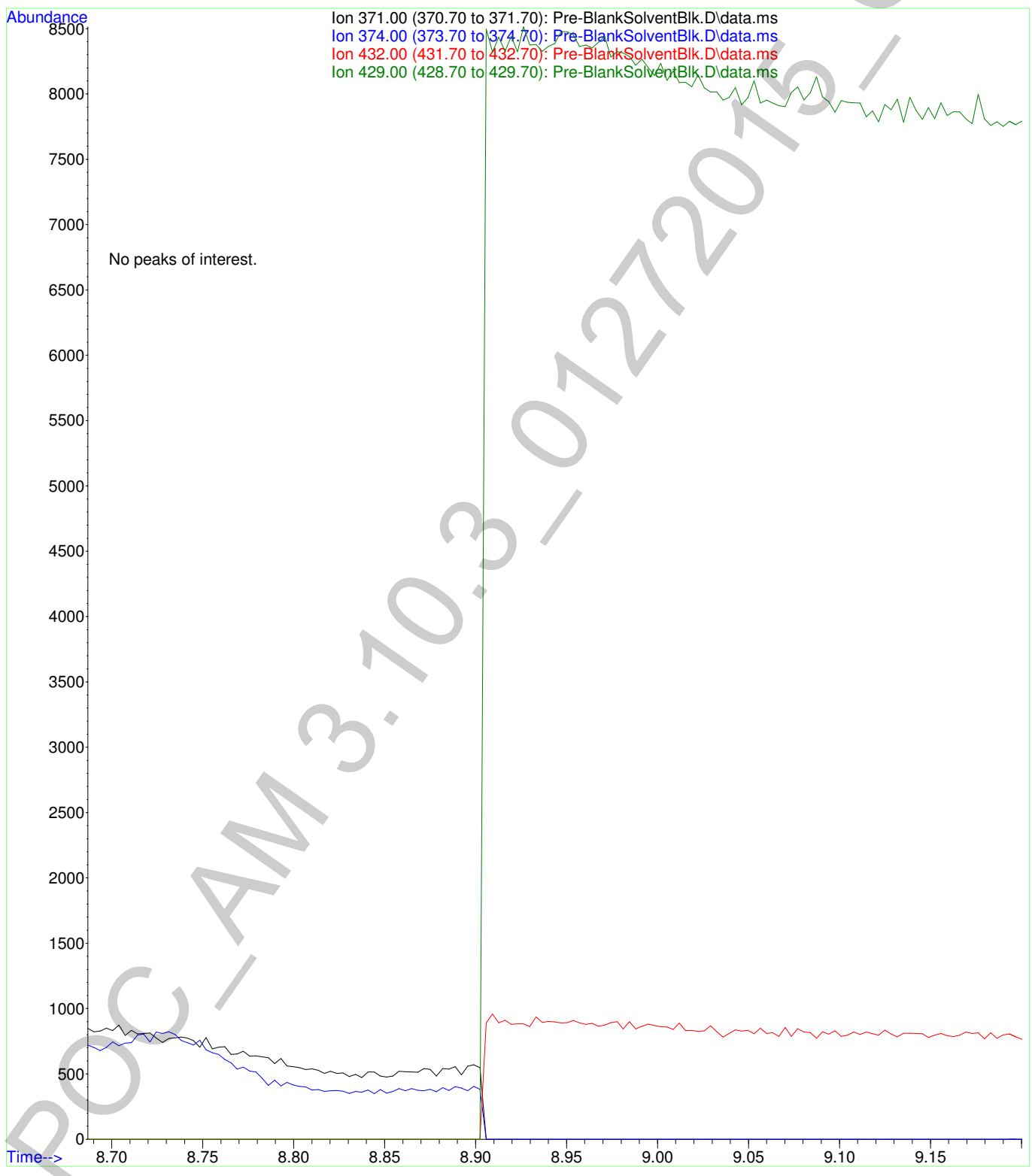
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Instrument : Probie  
Sample Name: 750ng/mL Positive Control  
Misc Info : Analytical Method 3.10.3  
Vial Number: 9



2

File :F:\Data\012715OP\Pre-BlankSolventBlk.D  
Operator : Pocatello Laboratory  
Acquired : 27 Jan 2015 22:30 using AcqMethod AM-3-10-3-3.M  
Instrument : Probie  
Sample Name: Pre-run Solvent Blank  
Misc Info : CHCl3  
Vial Number: 99



2

Calibration data of Codeine-D3-TMS

LvLID	Amount (ratio)	Response (ratio)	Data File
4	100.0000	43095.000000	F:\Data\012715OP\CalLevel-4-250.D
1	100.0000	36539.000000	F:\Data\012715OP\CalLevel-1-25.D
2	100.0000	38370.000000	F:\Data\012715OP\CalLevel-2-50.D
3	100.0000	40928.000000	F:\Data\012715OP\CalLevel-3-100.D
5	100.0000	44219.000000	F:\Data\012715OP\CalLevel-5-500.D
6	100.0000	50497.000000	F:\Data\012715OP\CalLevel-6-1000.D

Internal Standard

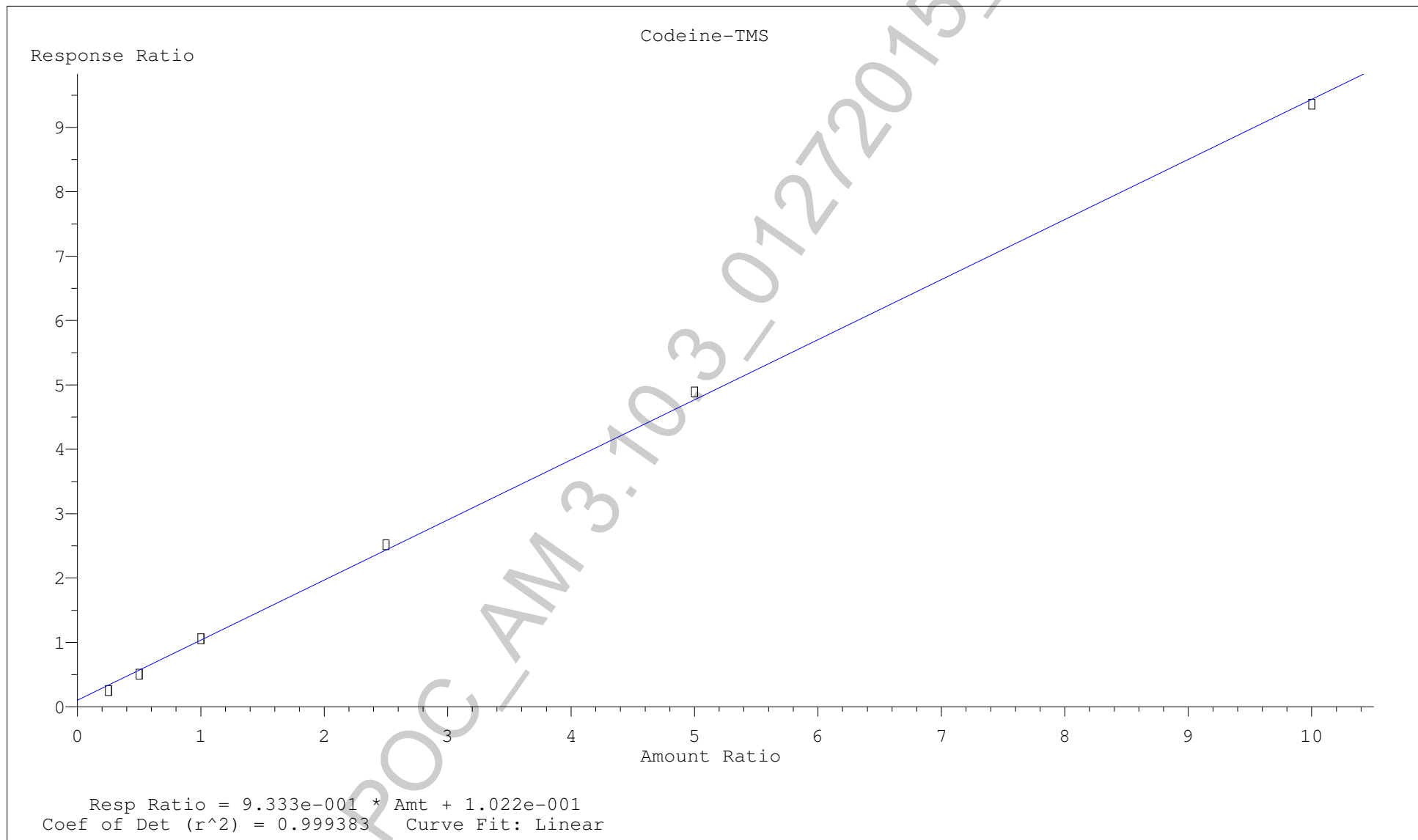
POC\_AM 3.10.3\_01272015\_CDS



2

Calibration data of Codeine-TMS

LvLID	Amount (ratio)	Response (ratio)	bias (%)	Data File
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1	0.2500	0.251293	-25.11	F:\Data\012715OP\CalLevel-1-25.D
2	0.5000	0.507714	-10.75	F:\Data\012715OP\CalLevel-2-50.D
3	1.0000	1.056807	2.06	F:\Data\012715OP\CalLevel-3-100.D
5	5.0000	4.887243	2.49	F:\Data\012715OP\CalLevel-5-500.D
6	10.0000	9.357902	-0.82	F:\Data\012715OP\CalLevel-6-1000.D



g

Calibration data of Morphine-D3-TMS

LvLID	Amount (ratio)	Response (ratio)	Data File
4	100.0000	31904.000000	F:\Data\012715OP\CalLevel-4-250.D
1	100.0000	24482.000000	F:\Data\012715OP\CalLevel-1-25.D
2	100.0000	25919.000000	F:\Data\012715OP\CalLevel-2-50.D
3	100.0000	28857.000000	F:\Data\012715OP\CalLevel-3-100.D
5	100.0000	33704.000000	F:\Data\012715OP\CalLevel-5-500.D
6	100.0000	43930.000000	F:\Data\012715OP\CalLevel-6-1000.D

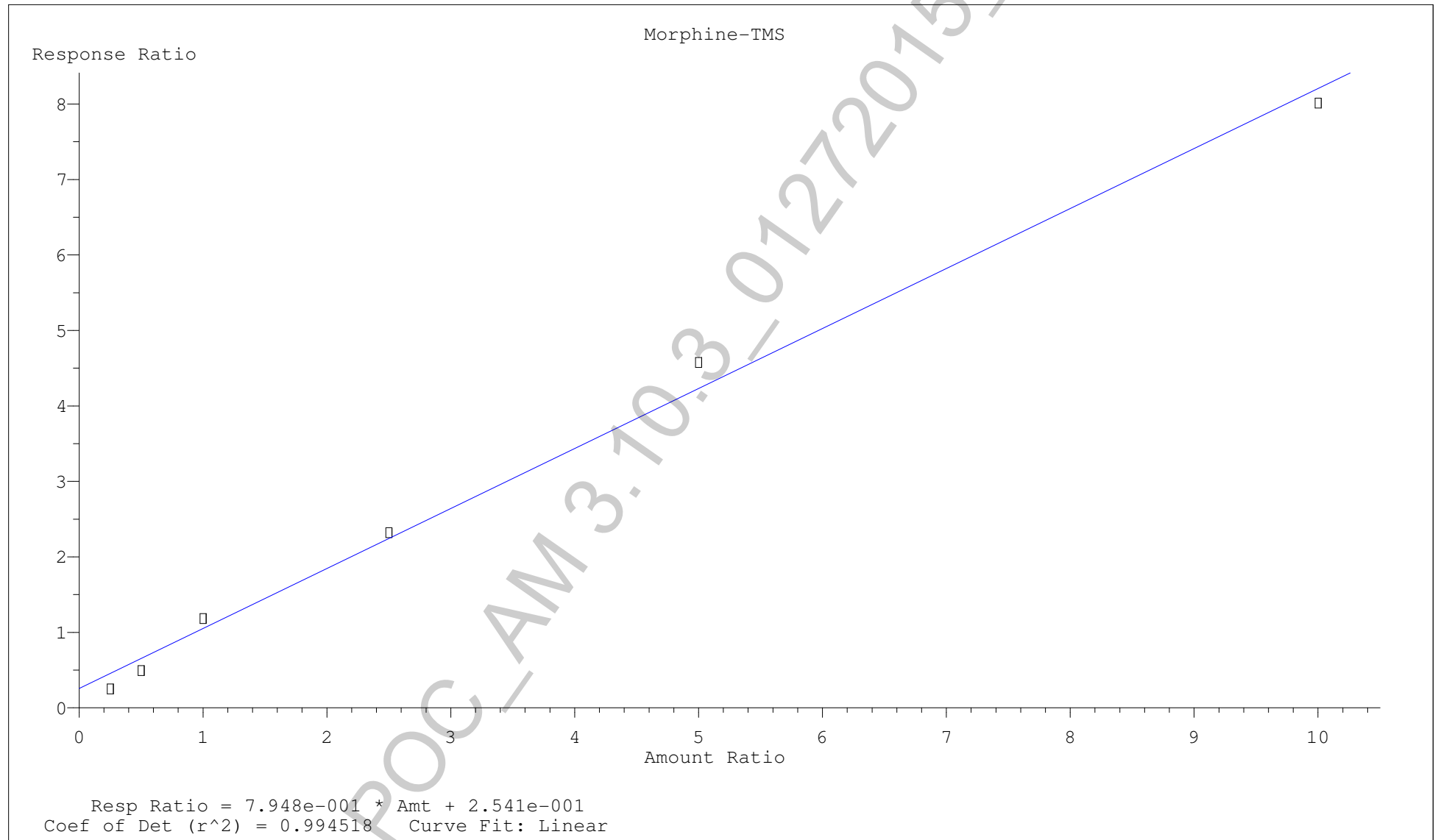
Internal Standard

POC\_AM 3.10.3\_01272015\_CDS

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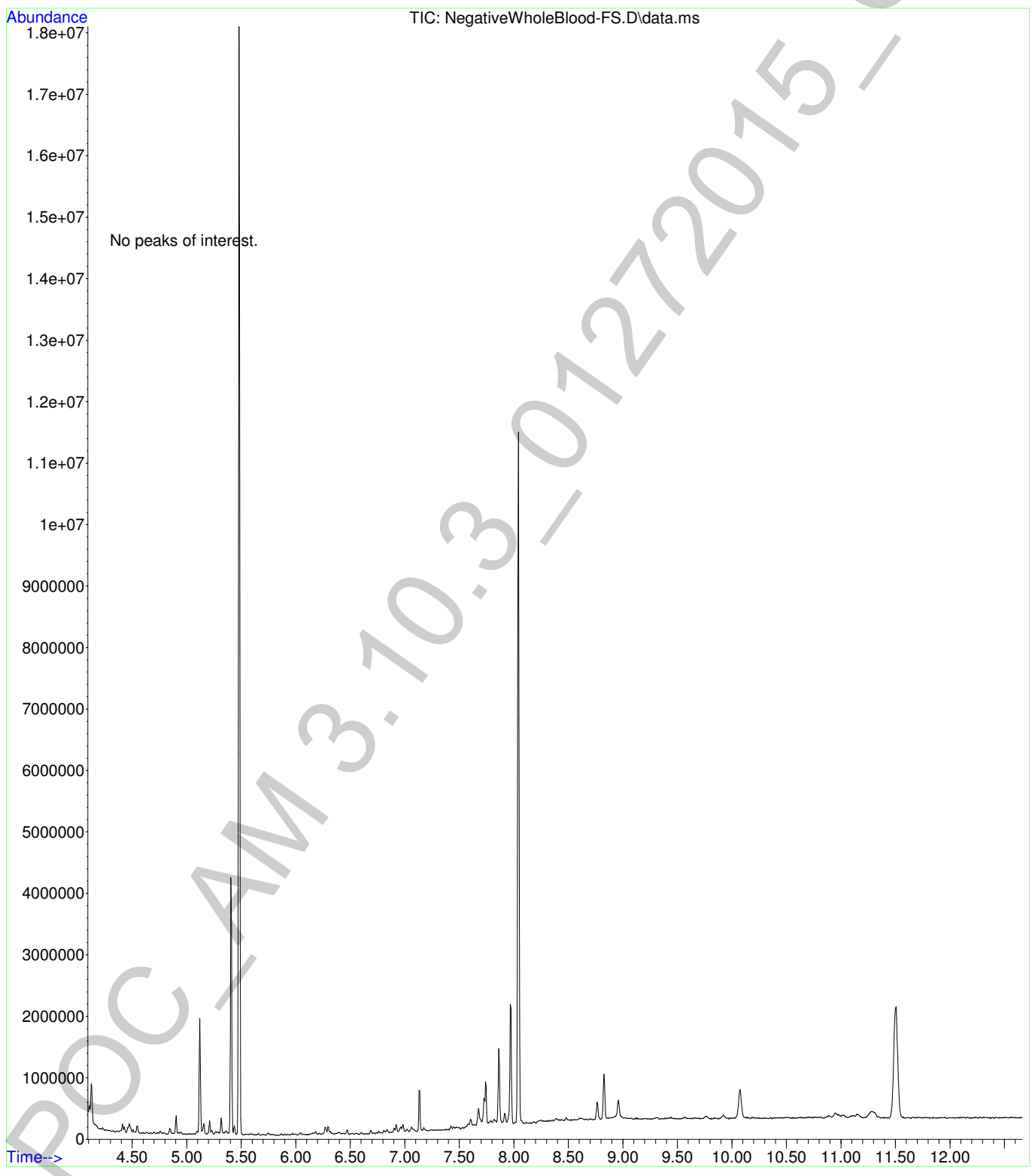
Calibration data of Morphine-TMS

LvLID	Amount (ratio)	Response (ratio)	bias (%)	Data File
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1	0.2500	0.248836	-45.04	F:\Data\012715OP\CalLevel-1-25.D
2	0.5000	0.492534	-24.39	F:\Data\012715OP\CalLevel-2-50.D
3	1.0000	1.180407	12.54	F:\Data\012715OP\CalLevel-3-100.D
5	5.0000	4.573344	8.17	F:\Data\012715OP\CalLevel-5-500.D
6	10.0000	8.009561	-2.35	F:\Data\012715OP\CalLevel-6-1000.D



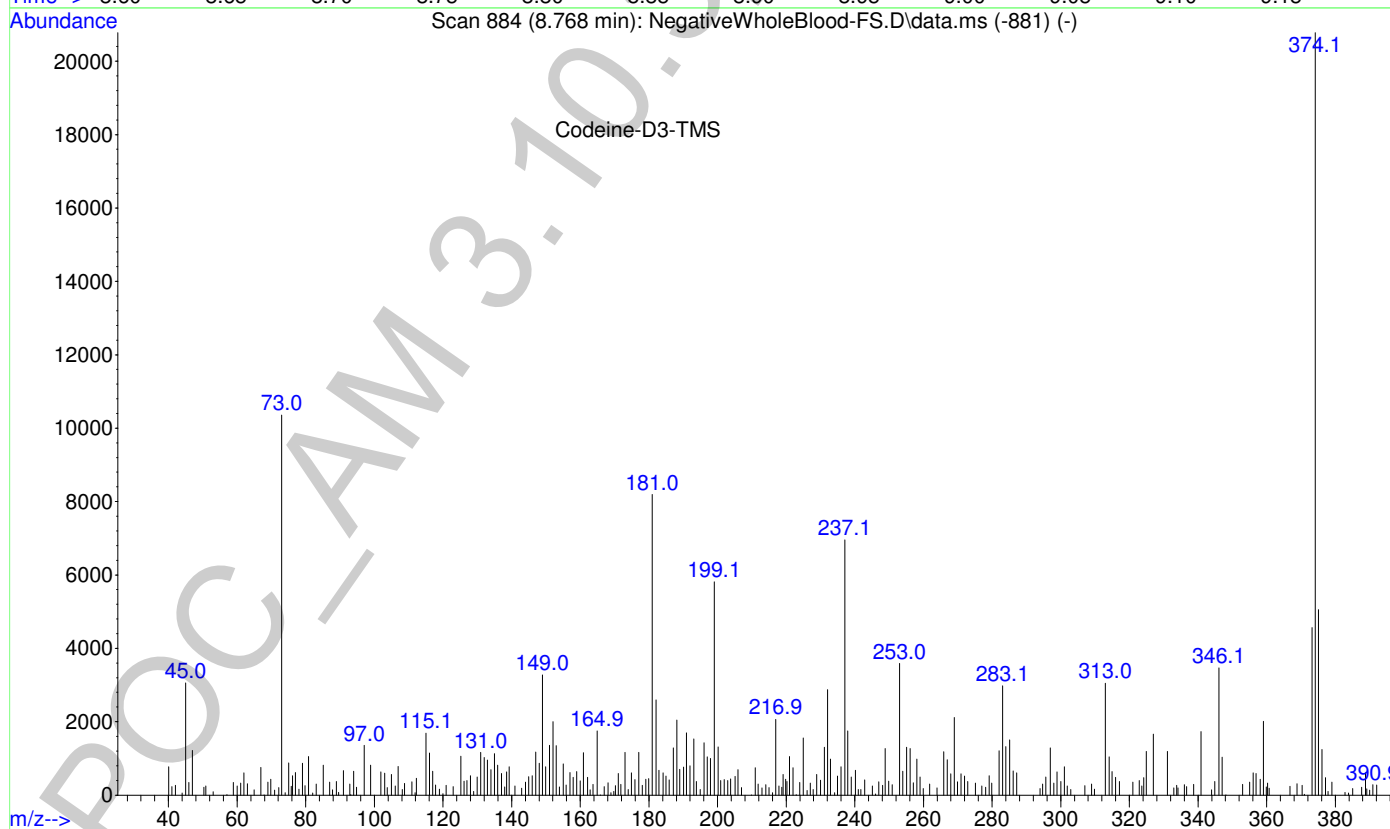
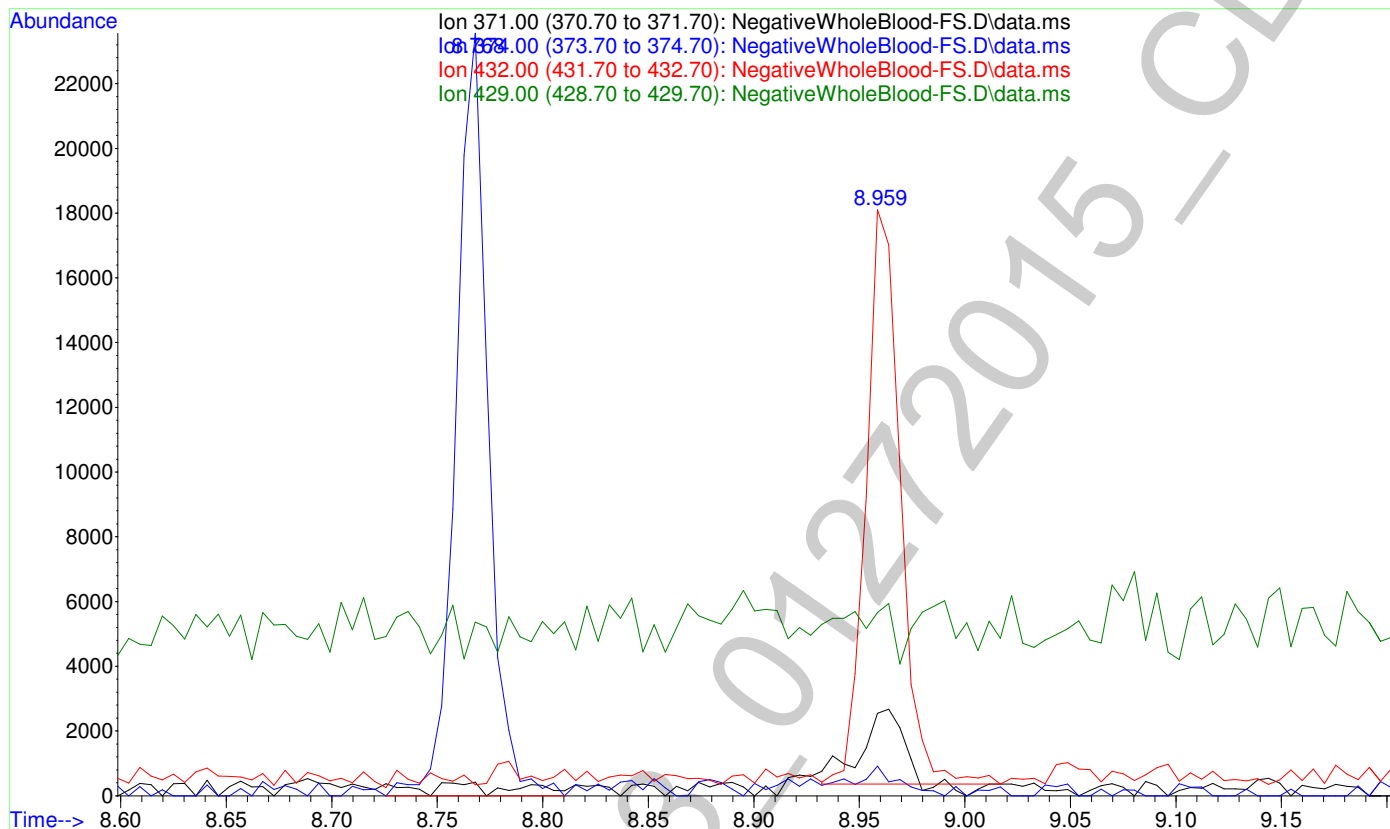
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File :F:\Data\012715OP\NegativeWholeBlood-FS.D  
Operator : Pocatello Laboratory  
Acquired : 27 Jan 2015 23:07 using AcqMethod AM3-10-3-FS.M  
Instrument : Probie  
Sample Name: Negative Whole Blood Utak Lot B0130  
Misc Info : Analytical Method 3.10.3  
Vial Number: 1



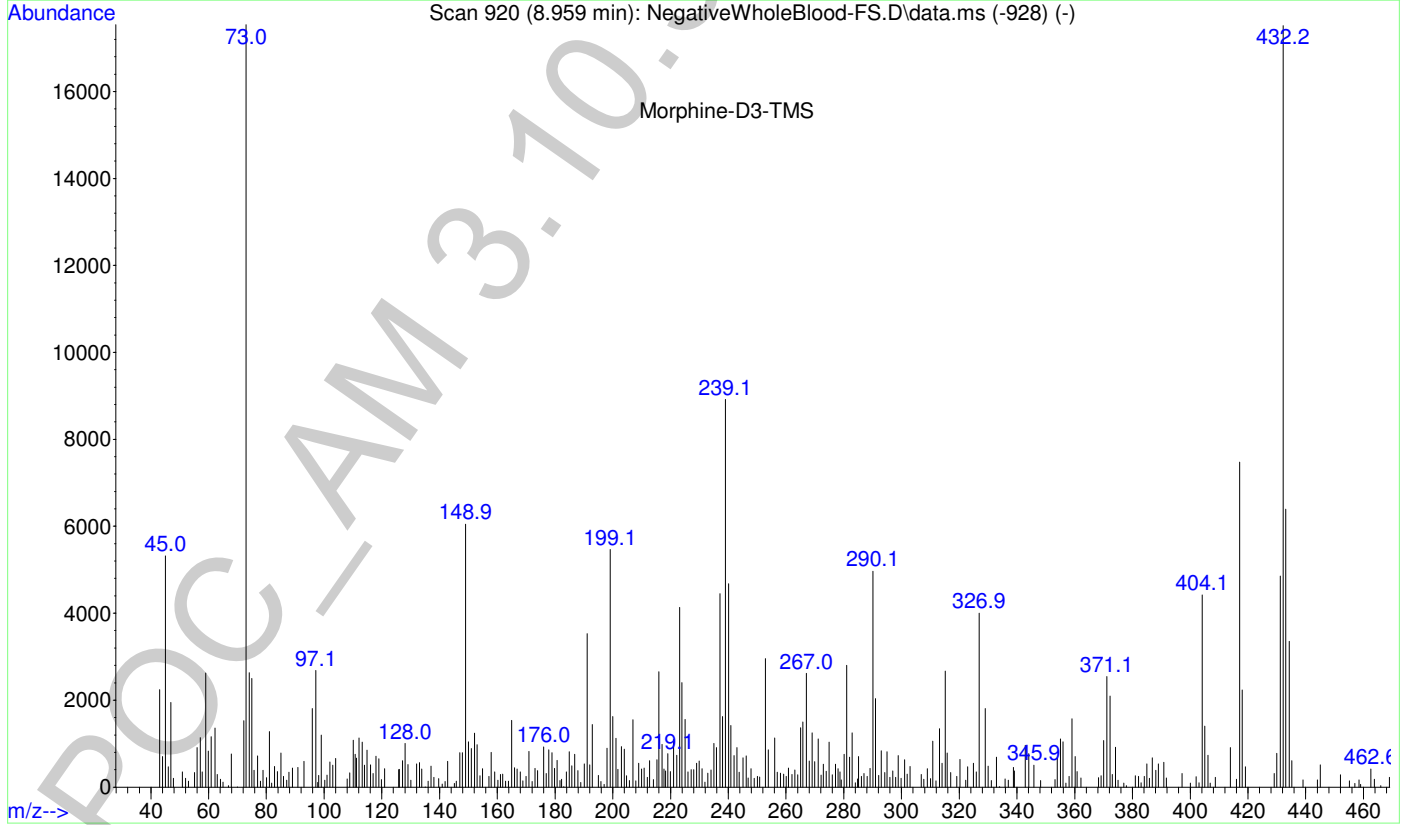
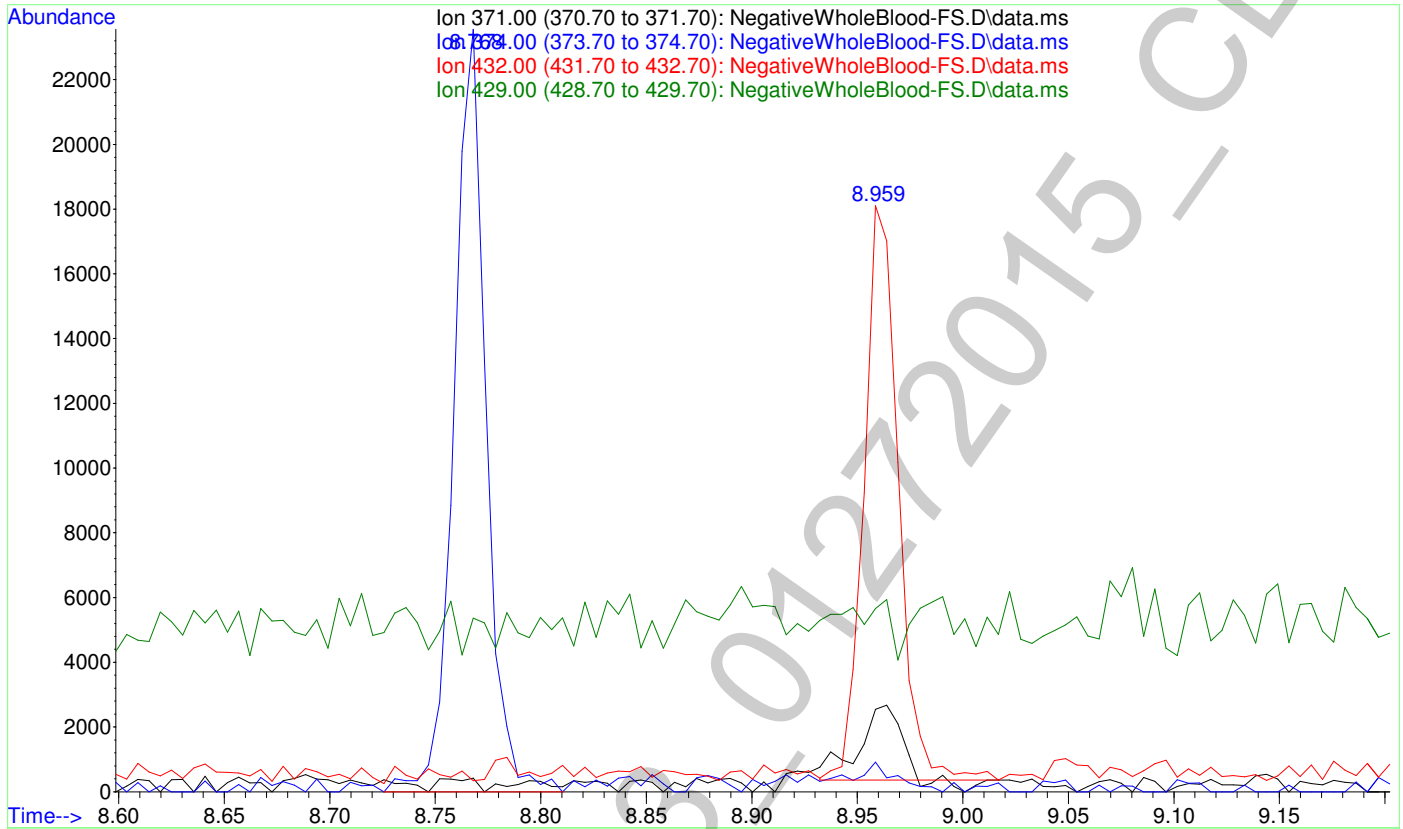
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Acquired : 27 Jan 2015 23:07 using AcqMethod AM3-10-3-FS.M  
Instrument : Probie  
Sample Name: Negative Whole Blood Utak Lot B0130  
Misc Info : Analytical Method 3.10.3  
Vial Number: 1

2



File :F:\Data\012715OP\NegativeWholeBlood-FS.D  
Operator : Pocatello Laboratory  
Acquired : 27 Jan 2015 23:07 using AcqMethod AM3-10-3-FS.M  
Instrument : Probie  
Sample Name: Negative Whole Blood Utak Lot B0130  
Misc Info : Analytical Method 3.10.3  
Vial Number: 1

2



2

Data Path : F:\Data\012715OP\  
 Data File : NegativeWholeBlood.D  
 Acq On : 27 Jan 2015 22:49  
 Operator : Pocatello Laboratory  
 Sample : Negative Whole Blood Utak Lot B0130  
 Misc : Analytical Method 3.10.3  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 30 08:19:43 2015  
 Quant Method : F:\Methods\AM-3-10-3-D3.M  
 Quant Title : Analytical Method 3.10.3 - Codeine and Morphine  
 QLast Update : Fri Jan 30 08:17:36 2015  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) Codeine-D3-TMS	8.769	374	38292	100.00	ng/mL	0.00	
3) Morphine-D3-TMS	8.964	432	24053	100.00	ng/mL	0.00	
Target Compounds							
2) Codeine-TMS	8.769	371	275	Below Cal			Qvalue #* 1
4) Morphine-TMS	0.000		0	N.D.			* 1

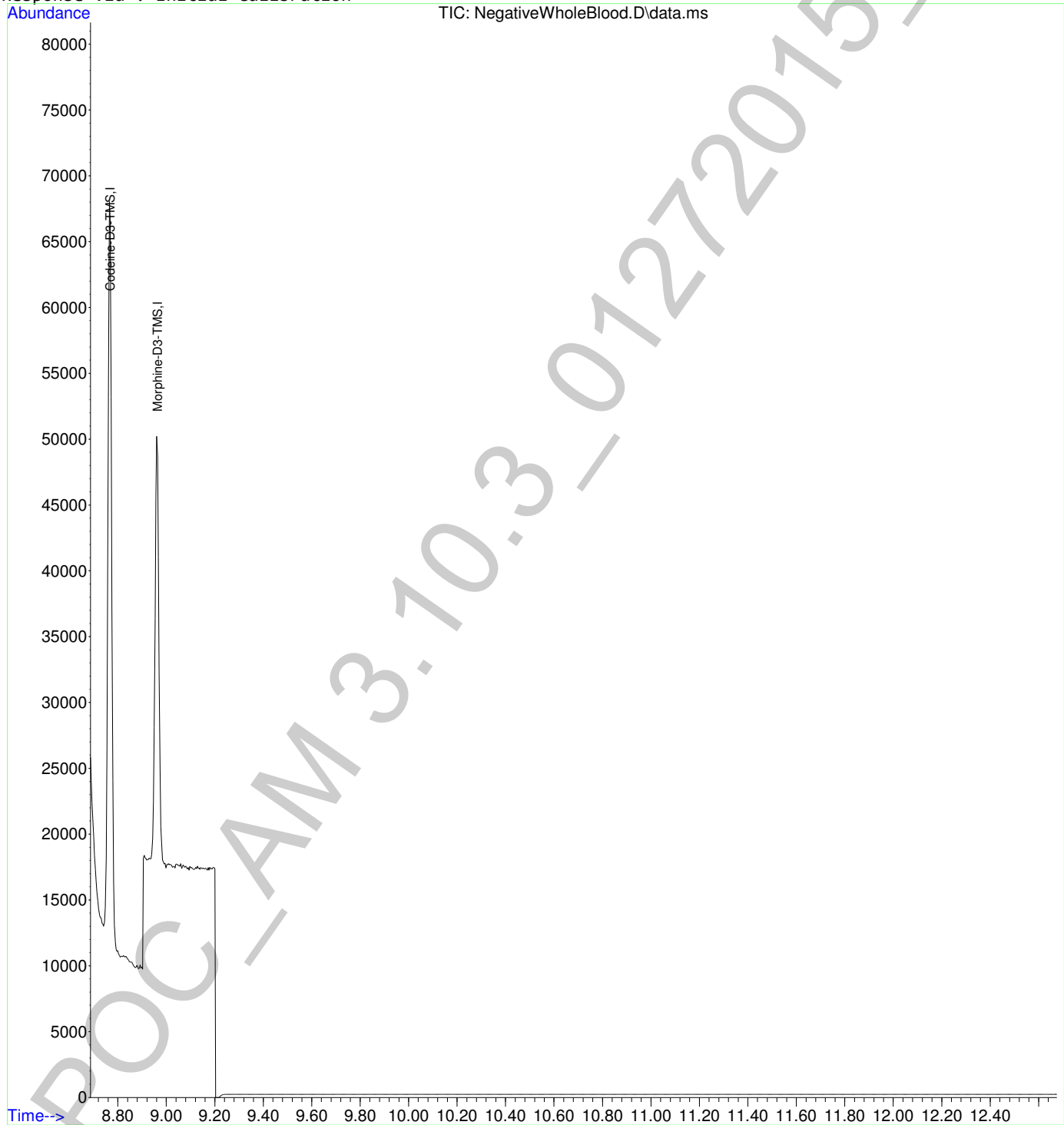
(#) = qualifier out of range (m) = manual integration (+) = signals summed

\*None detected.

2

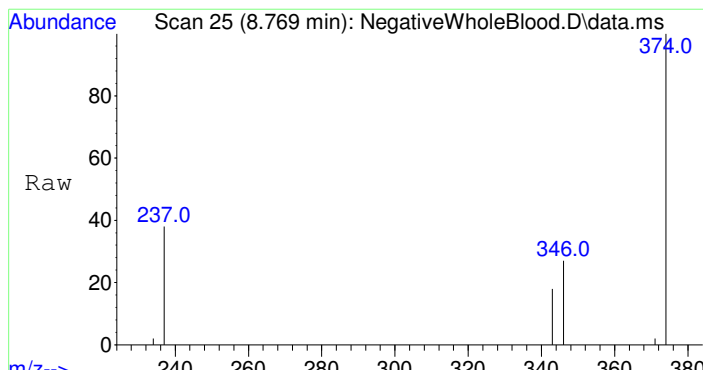
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Data File : NegativeWholeBlood.D  
Acq On : 27 Jan 2015 22:49  
Operator : Pocatello Laboratory  
Sample : Negative Whole Blood Utak Lot B0130  
Misc : Analytical Method 3.10.3  
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 30 08:19:43 2015  
Quant Method : F:\Methods\AM-3-10-3-D3.M  
Quant Title : Analytical Method 3.10.3 - Codeine and Morphine  
QLast Update : Fri Jan 30 08:17:36 2015  
Response via : Initial Calibration



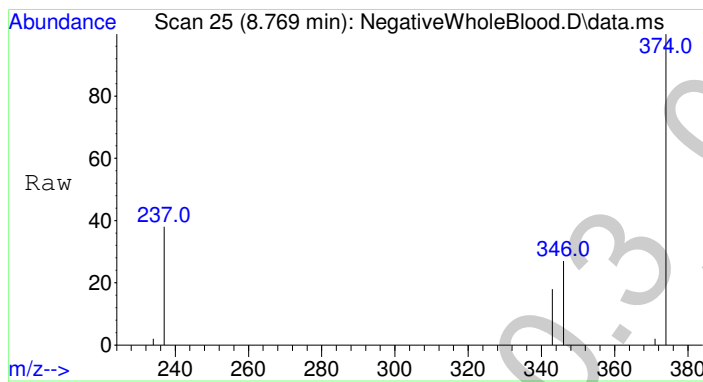
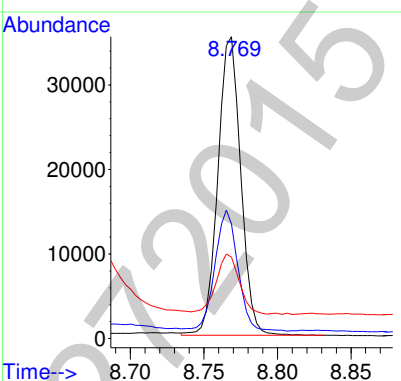
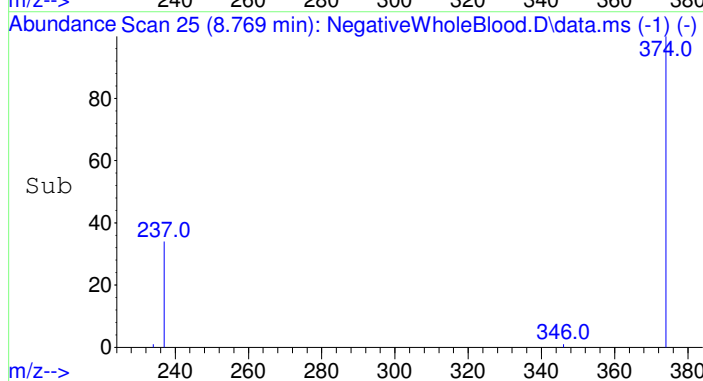


2



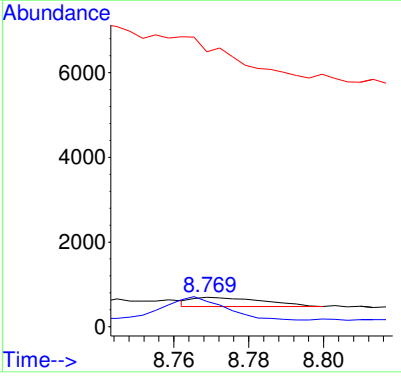
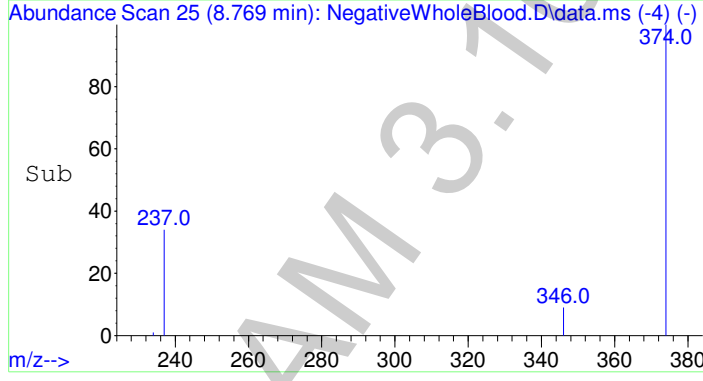
#1  
 Codeine-D3-TMS  
 Concen: 100.00 ng/mL  
 RT: 8.769 min Scan# 25  
 Delta R.T. 0.003 min  
 Lab File: NegativeWholeBlood.D  
 Acq: 27 Jan 2015 22:49

Tgt Ion	Resp	Lower	Upper
374	38292		
374	100		
237	40.3	34.6	51.8
346	20.4	16.9	25.3

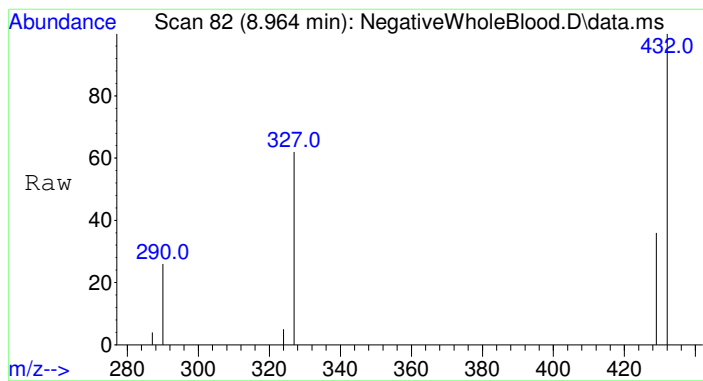


#2  
 Codeine-TMS  
 Concen: Below Cal  
 RT: 8.769 min Scan# 25  
 Delta R.T. -0.007 min  
 Lab File: NegativeWholeBlood.D  
 Acq: 27 Jan 2015 22:49

Tgt Ion	Resp	Lower	Upper
371	275		
371	100		
234	227.3	30.8	46.2#
343	0.0	19.0	28.6#

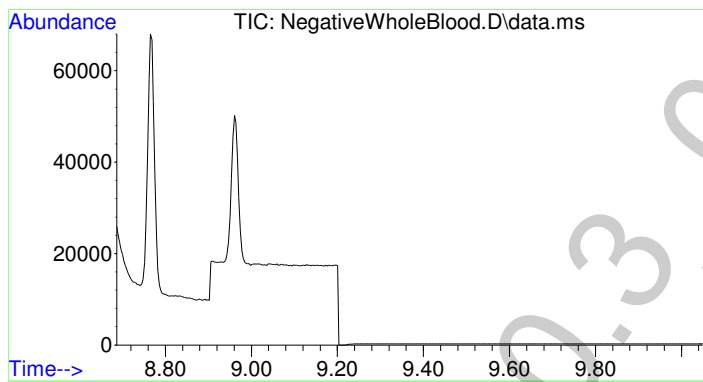
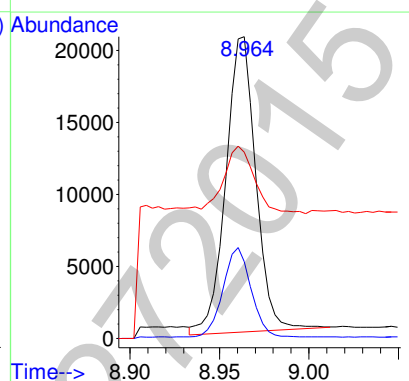
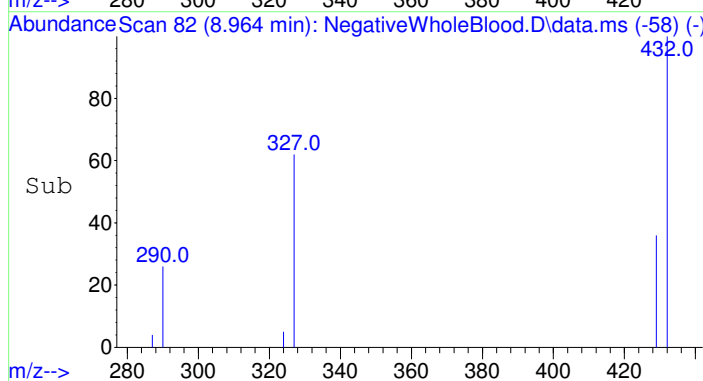


2



#3  
 Morphine-D3-TMS  
 Concen: 100.00 ng/mL  
 RT: 8.964 min Scan# 82  
 Delta R.T. 0.003 min  
 Lab File: NegativeWholeBlood.D  
 Acq: 27 Jan 2015 22:49

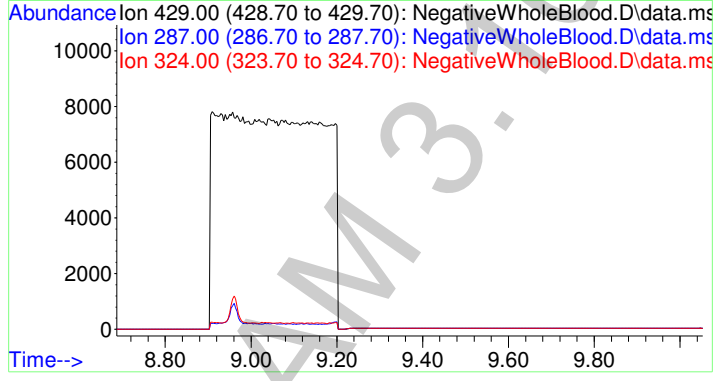
Tgt Ion	Resp	Lower	Upper
432	100		
290	28.1	22.9	34.3
327	22.0	19.0	28.6



#4  
 Morphine-TMS  
 Concen: N.D.  
 Expected RT: 8.97 min

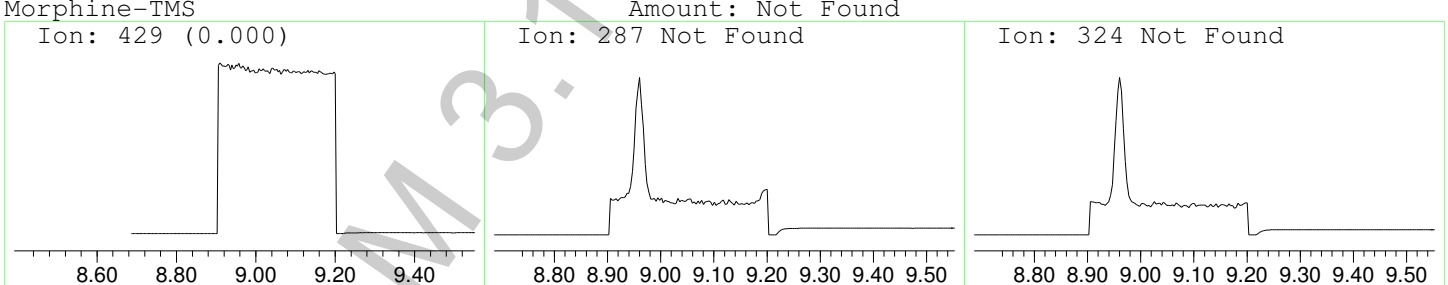
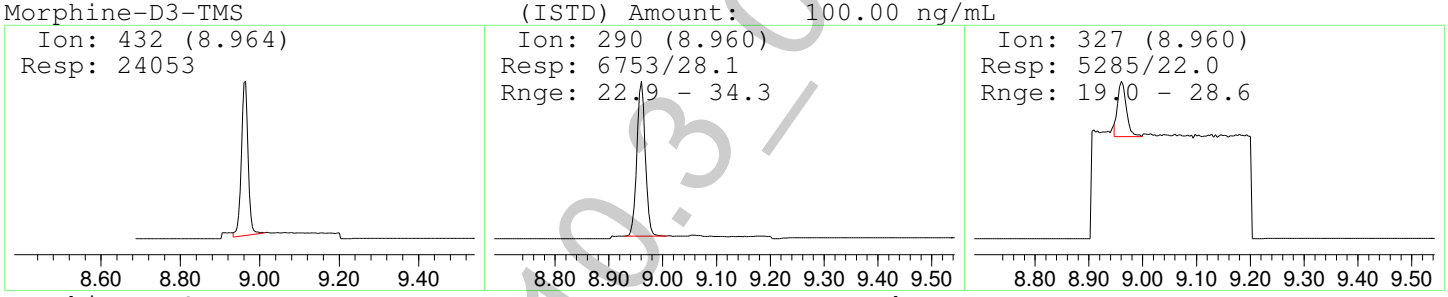
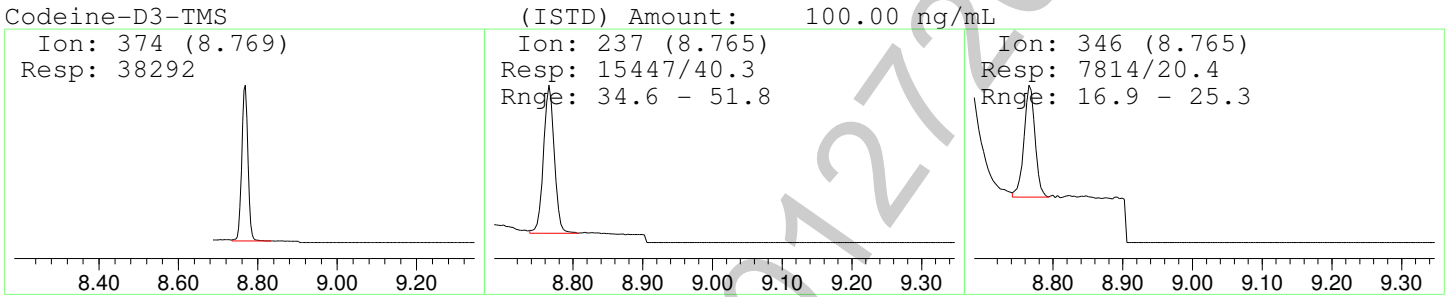
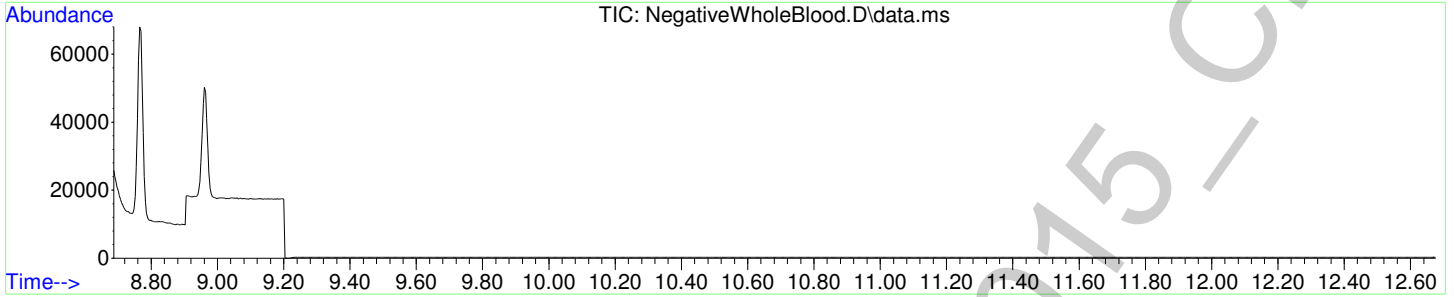
Lab File: NegativeWholeBlood.D  
 Acq: 27 Jan 2015 22:49

Tgt Ion	Sig	Exp Ratio
429	100	
287	27.6	
324	23.7	



2

Data Path : F:\Data\012715OP\  
 Data File : NegativeWholeBlood.D  
 Acq On : 27 Jan 2015 22:49  
 Operator : Pocatello Laboratory  
 Sample : Negative Whole Blood Utak Lot B0130  
 Misc : Analytical Method 3.10.3  
 ALS Vial : 1 Sample Multiplier: 1



Data Path : F:\Data\012715OP\  
 Data File : CalLevel-1-25.D  
 Acq On : 27 Jan 2015 23:26  
 Operator : Pocatello Laboratory  
 Sample : Calibrator Level 1: 25ng/mL  
 Misc : Analytical Method 3.10.3  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 30 08:42:00 2015  
 Quant Method : F:\Methods\AM-3-10-3-D3.M  
 Quant Title : Analytical Method 3.10.3 - Codeine and Morphine  
 QLast Update : Fri Jan 30 08:41:21 2015  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Codeine-D3-TMS	8.766	374	36539	100.00	ng/mL	0.00
3) Morphine-D3-TMS	8.961	432	24482	100.00	ng/mL	0.00
Target Compounds						
2) Codeine-TMS	8.776	371	9182	15.97	ng/mL	* 93
4) Morphine-TMS	8.971	429	6092	Below Cal	#**	68

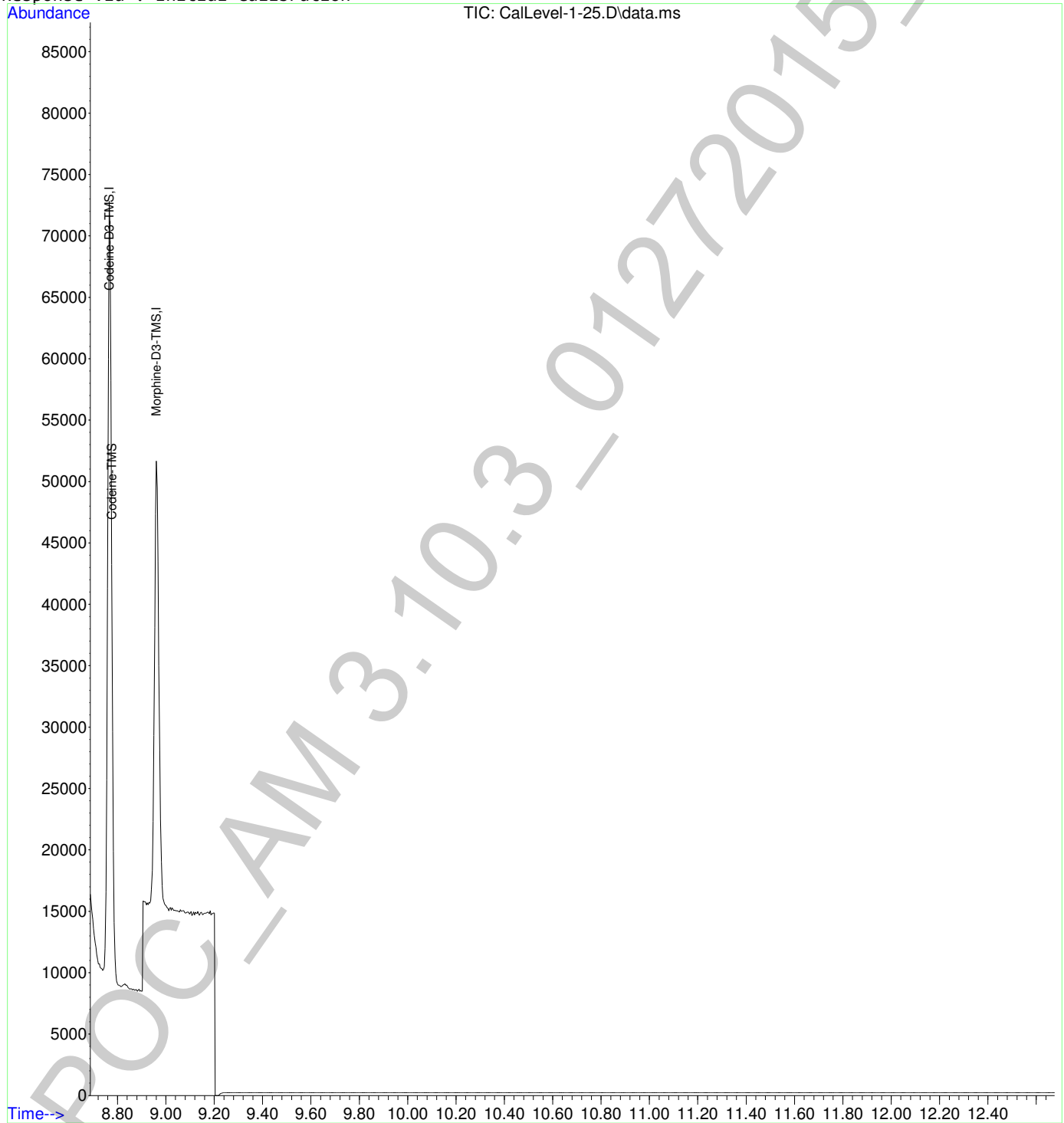
(#) = qualifier out of range (m) = manual integration (+) = signals summed

\*Qualifier ions not out of range but software integration was incomplete. Refer to manual integration.

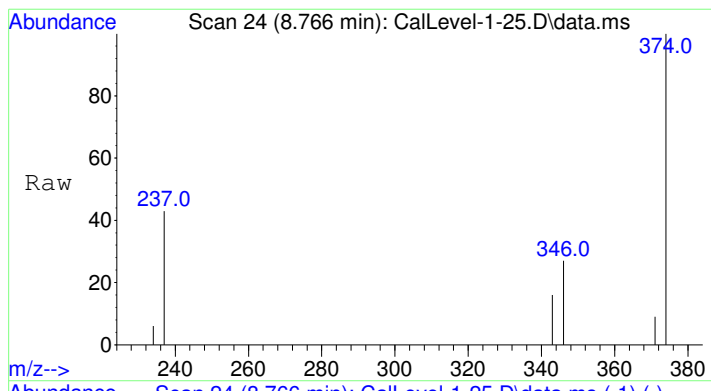
\*\*Qualifier ions out of range. Refer to manual integration.

Data Path : F:\Data\0127150P\  
Data File : CalLevel-1-25.D  
Acq On : 27 Jan 2015 23:26  
Operator : Pocatello Laboratory  
Sample : Calibrator Level 1: 25ng/mL  
Misc : Analytical Method 3.10.3  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 30 08:42:00 2015  
Quant Method : F:\Methods\AM-3-10-3-D3.M  
Quant Title : Analytical Method 3.10.3 - Codeine and Morphine  
QLast Update : Fri Jan 30 08:41:21 2015  
Response via : Initial Calibration

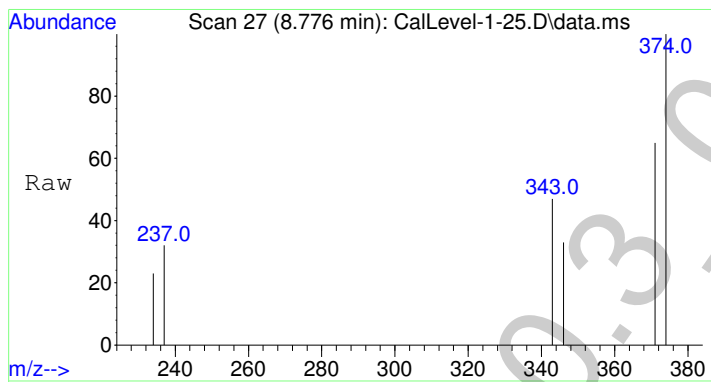
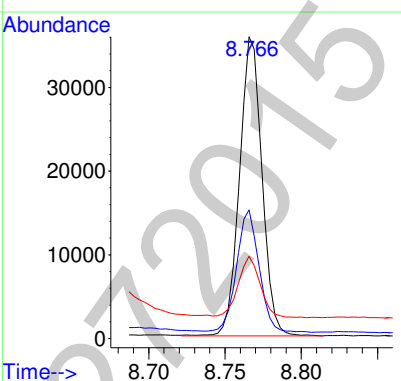
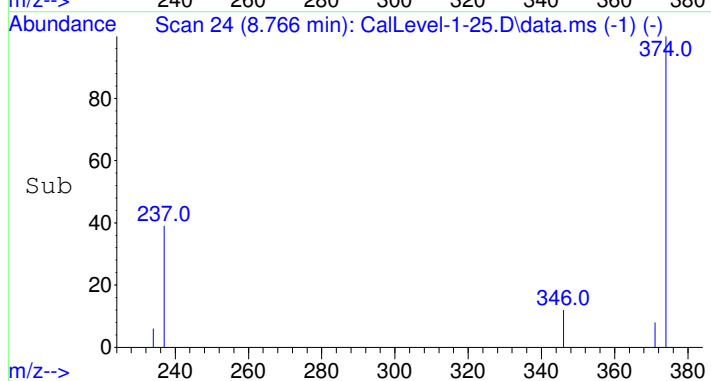


2



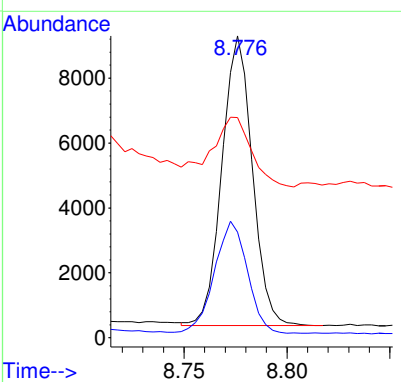
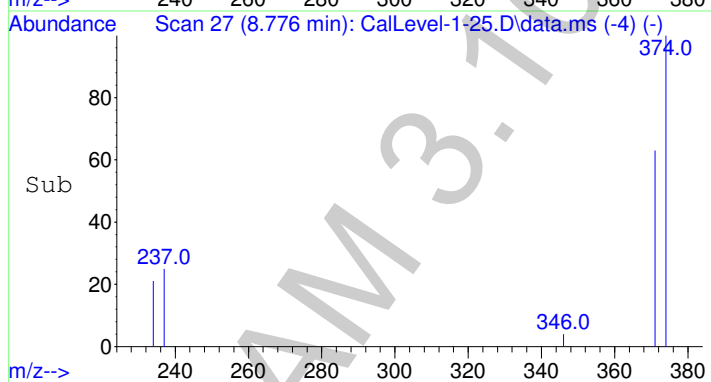
#1  
Codeine-D3-TMS  
Concen: 100.00 ng/mL  
RT: 8.766 min Scan# 24  
Delta R.T. -0.000 min  
Lab File: CalLevel-1-25.D  
Acq: 27 Jan 2015 23:26

Tgt Ion	Resp	Lower	Upper
374	36539		
374	100		
237	40.9	34.6	51.8
346	20.1	16.9	25.3

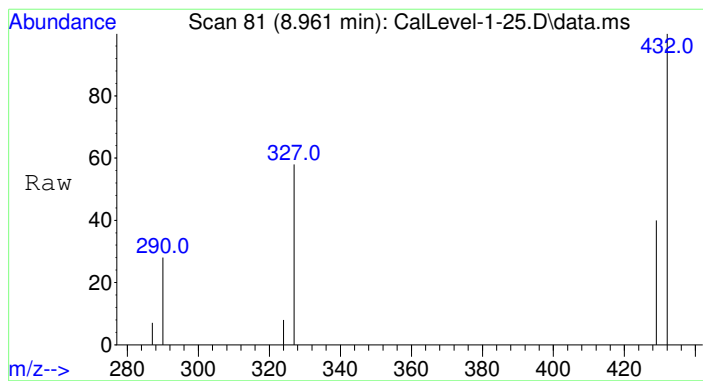


#2  
Codeine-TMS  
Concen: 15.97 ng/mL  
RT: 8.776 min Scan# 27  
Delta R.T. -0.000 min  
Lab File: CalLevel-1-25.D  
Acq: 27 Jan 2015 23:26

Tgt Ion	Resp	Lower	Upper
371	9182		
371	100		
234	42.0	30.8	46.2
343	28.0	19.0	28.6

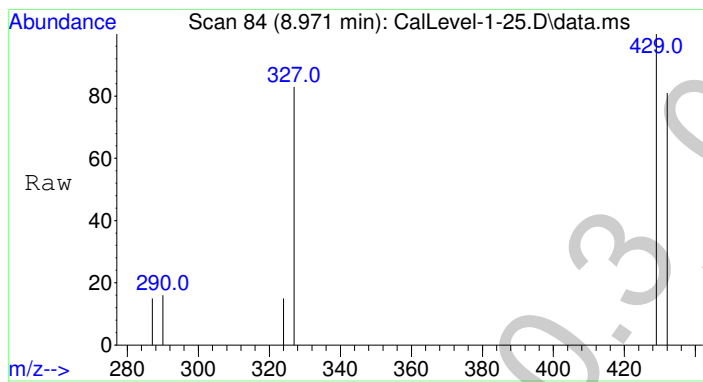
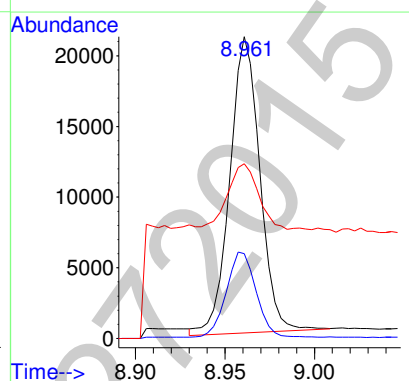
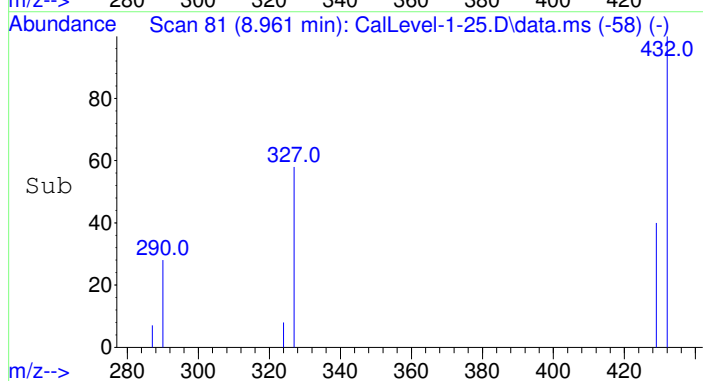


2



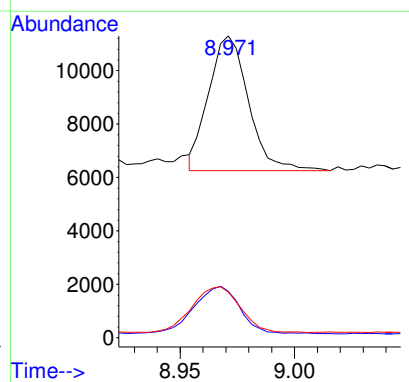
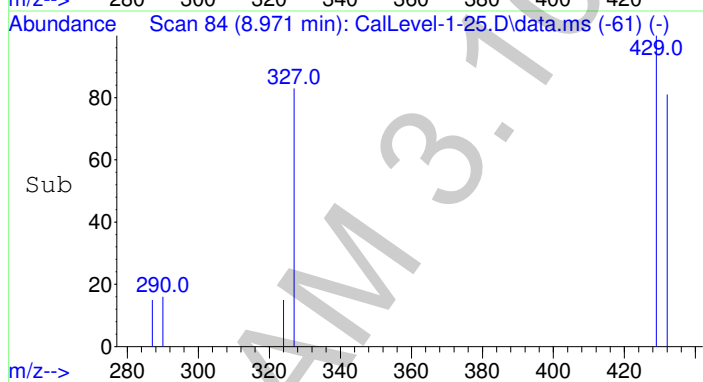
#3  
Morphine-D3-TMS  
Concen: 100.00 ng/mL  
RT: 8.961 min Scan# 81  
Delta R.T. -0.000 min  
Lab File: CalLevel-1-25.D  
Acq: 27 Jan 2015 23:26

Tgt Ion	Resp	Lower	Upper
432	24482		
290	29.1	22.9	34.3
327	20.9	19.0	28.6



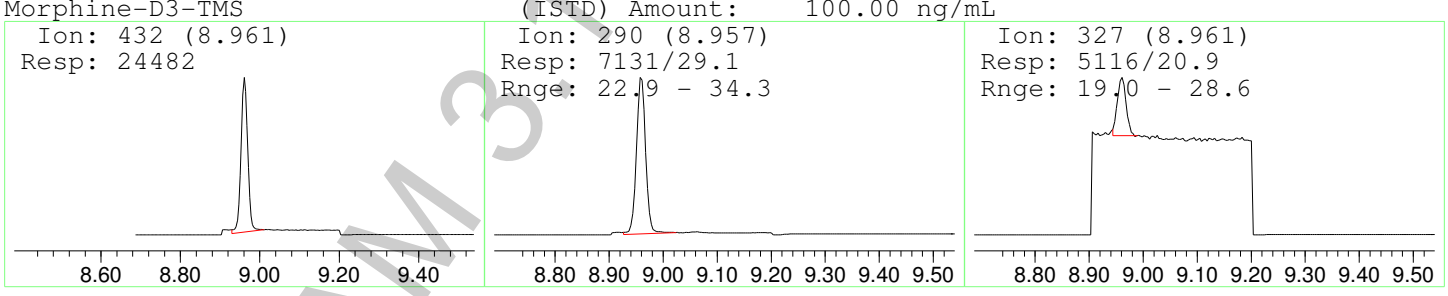
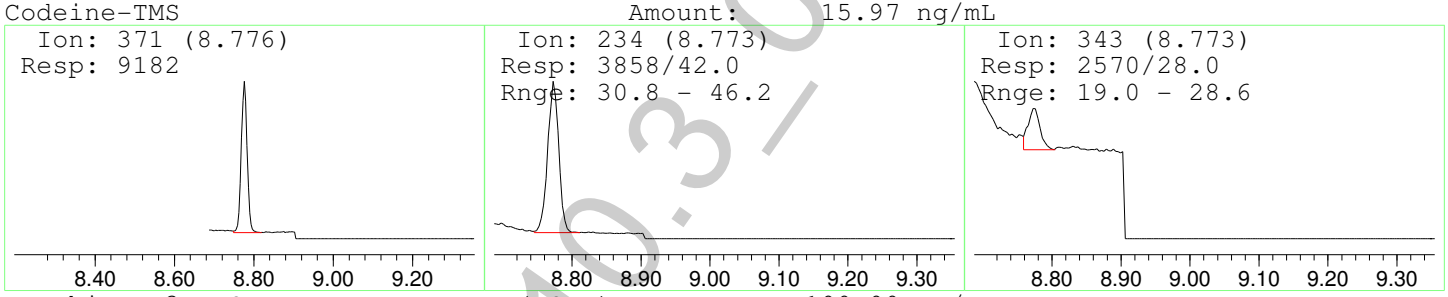
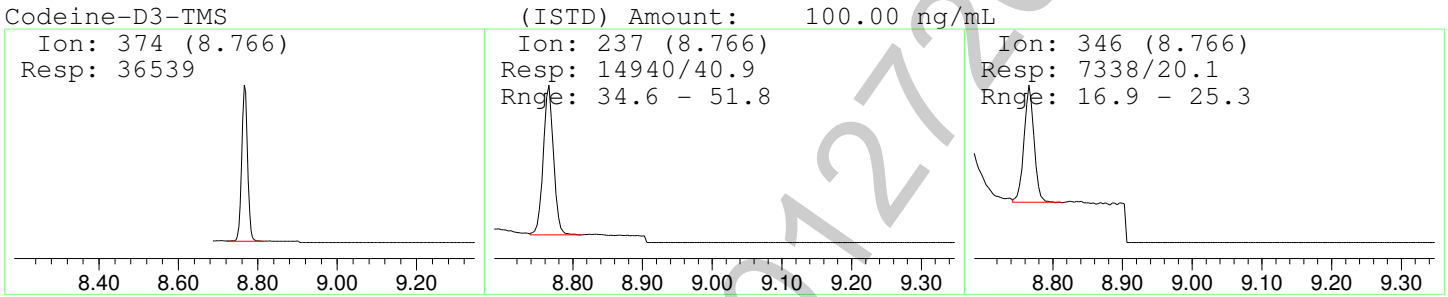
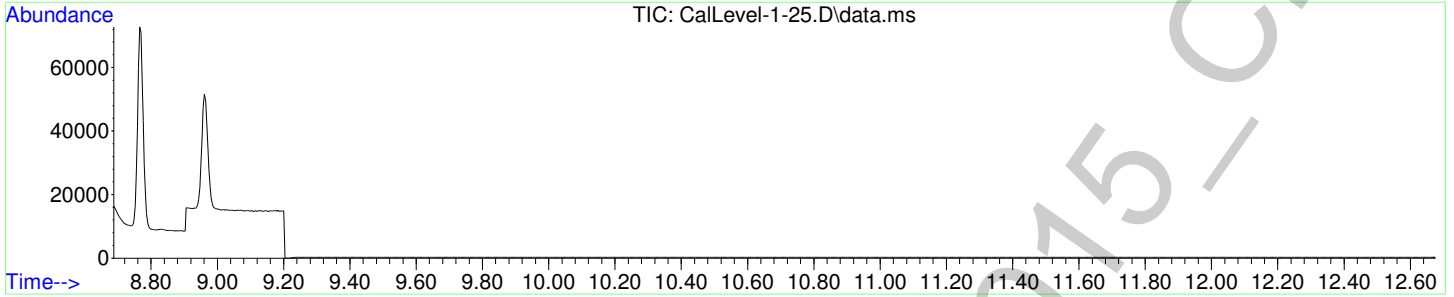
#4  
Morphine-TMS  
Concen: Below Cal  
RT: 8.971 min Scan# 84  
Delta R.T. 0.000 min  
Lab File: CalLevel-1-25.D  
Acq: 27 Jan 2015 23:26

Tgt Ion	Resp	Lower	Upper
429	6092		
287	43.5	22.1	33.1#
324	40.7	19.0	28.4#



2

Data Path : F:\Data\012715OP\  
 Data File : CalLevel-1-25.D  
 Acq On : 27 Jan 2015 23:26  
 Operator : Pocatello Laboratory  
 Sample : Calibrator Level 1: 25ng/mL  
 Misc : Analytical Method 3.10.3  
 ALS Vial : 2 Sample Multiplier: 1





2

Data Path : F:\Data\012715OP\  
 Data File : CalLevel-1-25.D  
 Acq On : 27 Jan 2015 23:26  
 Operator : Pocatello Laboratory  
 Sample : Calibrator Level 1: 25ng/mL  
 Misc : Analytical Method 3.10.3  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 30 08:42:00 2015  
 Quant Method : F:\Methods\AM-3-10-3-D3.M  
 Quant Title : Analytical Method 3.10.3 - Codeine and Morphine  
 QLast Update : Fri Jan 30 08:41:21 2015  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Codeine-D3-TMS	8.766	374	36539	100.00	ng/mL	0.00
3) Morphine-D3-TMS	8.961	432	24482	100.00	ng/mL	0.00
Target Compounds						
2) Codeine-TMS	8.776	371	11982m	24.18	ng/mL*	Qvalue
4) Morphine-TMS	8.971	429	11266m	25.93	ng/mL*	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

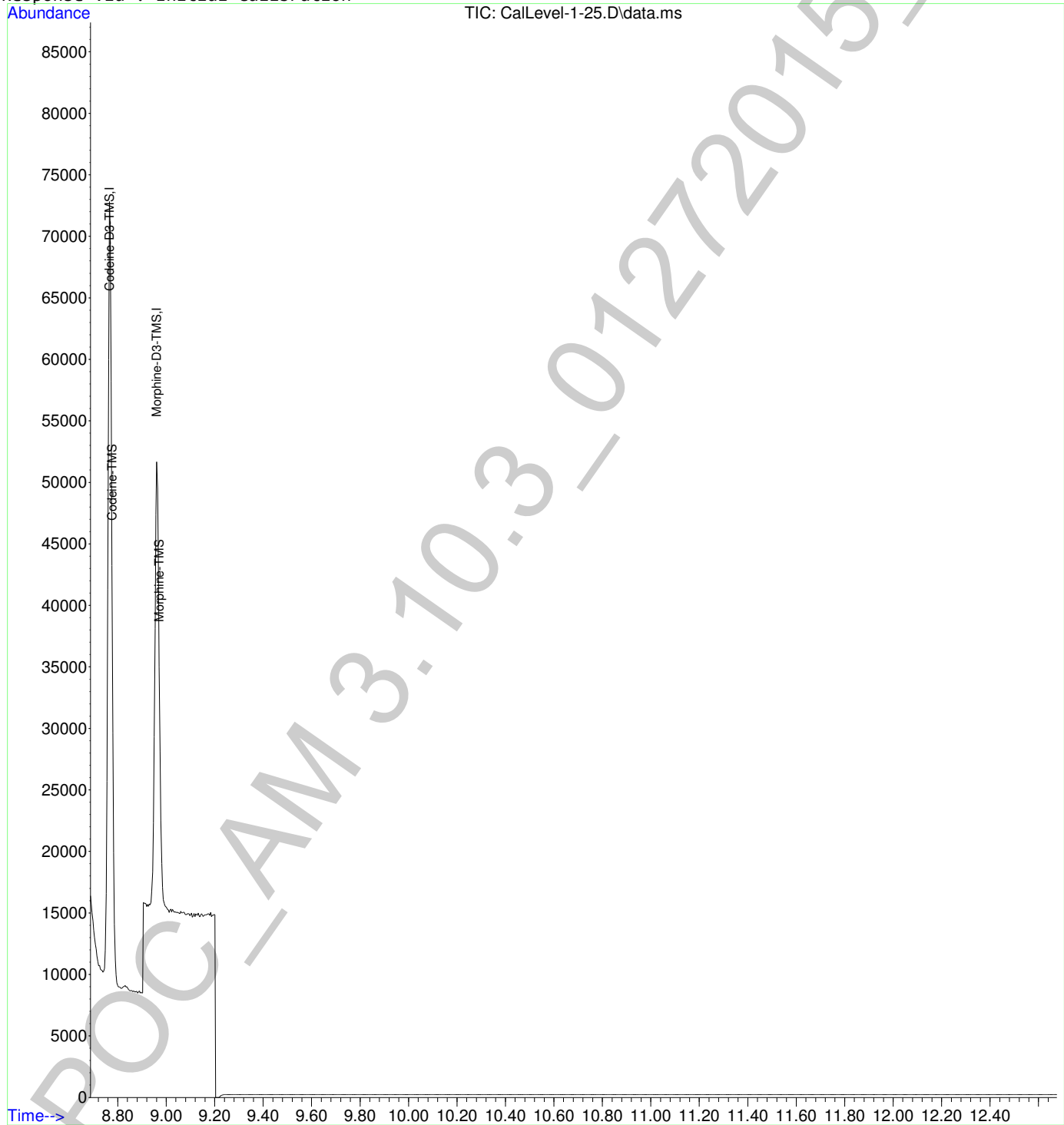
\*Manual integration successful.

POC-AM 3.10.3-012715-CDS

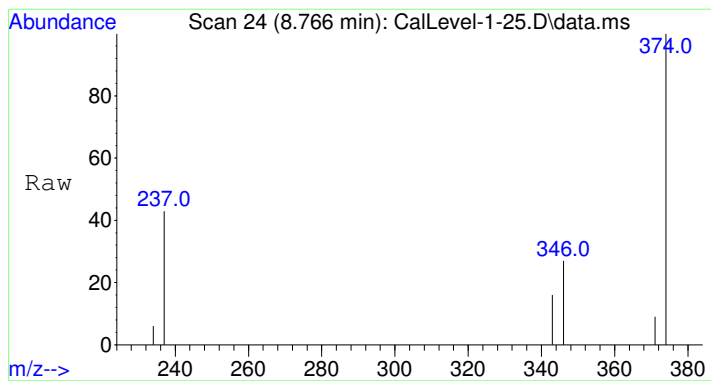
2

Data Path : F:\Data\0127150P\  
Data File : CalLevel-1-25.D  
Acq On : 27 Jan 2015 23:26  
Operator : Pocatello Laboratory  
Sample : Calibrator Level 1: 25ng/mL  
Misc : Analytical Method 3.10.3  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 30 08:42:00 2015  
Quant Method : F:\Methods\AM-3-10-3-D3.M  
Quant Title : Analytical Method 3.10.3 - Codeine and Morphine  
QLast Update : Fri Jan 30 08:41:21 2015  
Response via : Initial Calibration

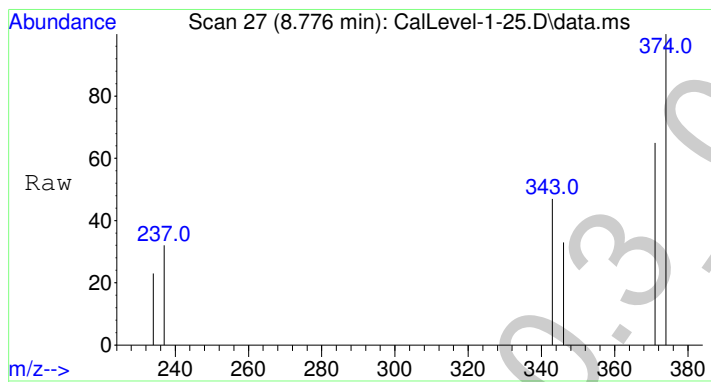
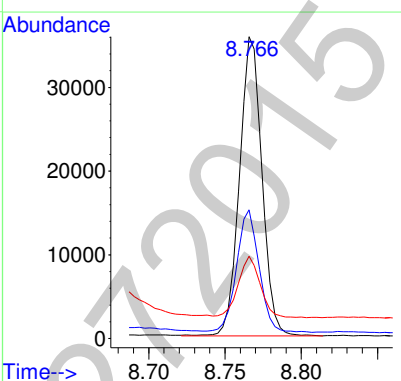
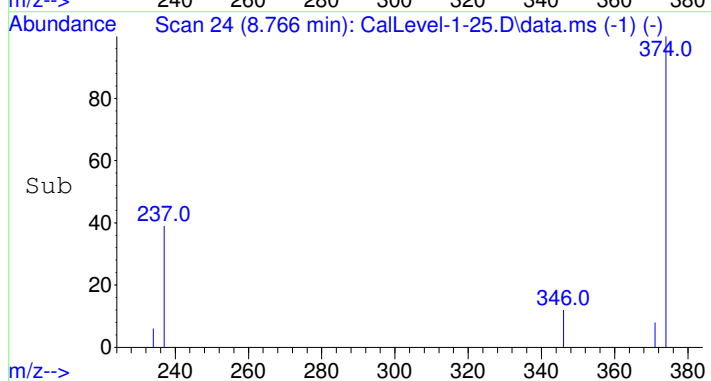


6



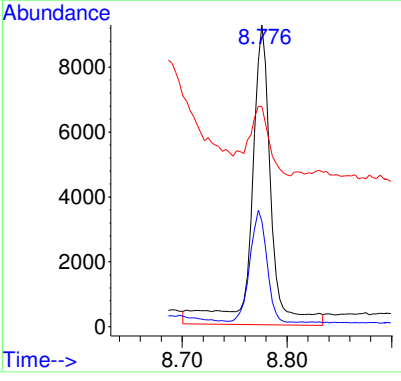
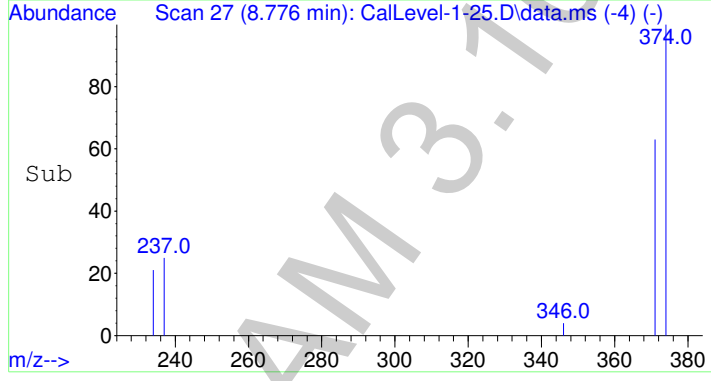
#1  
 Codeine-D3-TMS  
 Concen: 100.00 ng/mL  
 RT: 8.766 min Scan# 24  
 Delta R.T. -0.000 min  
 Lab File: CalLevel-1-25.D  
 Acq: 27 Jan 2015 23:26

Tgt Ion	Resp	Lower	Upper
374	36539		
374	100		
237	40.9	34.6	51.8
346	20.1	16.9	25.3

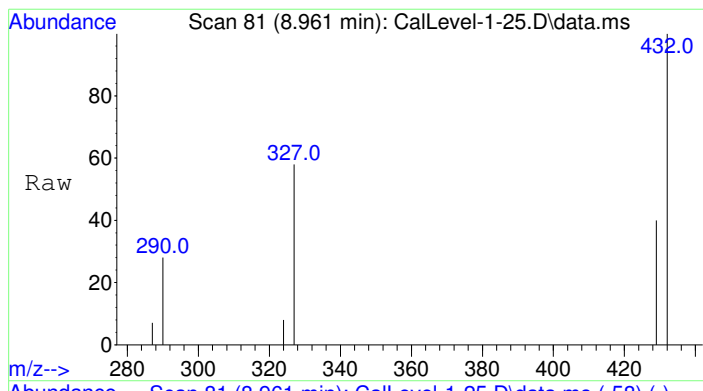


#2  
 Codeine-TMS  
 Concen: 24.18 ng/mL m  
 RT: 8.776 min Scan# 27  
 Delta R.T. -0.000 min  
 Lab File: CalLevel-1-25.D  
 Acq: 27 Jan 2015 23:26

Tgt Ion	Resp	Lower	Upper
371	11982		
371	100		
234	32.2	30.8	46.2
343	21.4	19.0	28.6

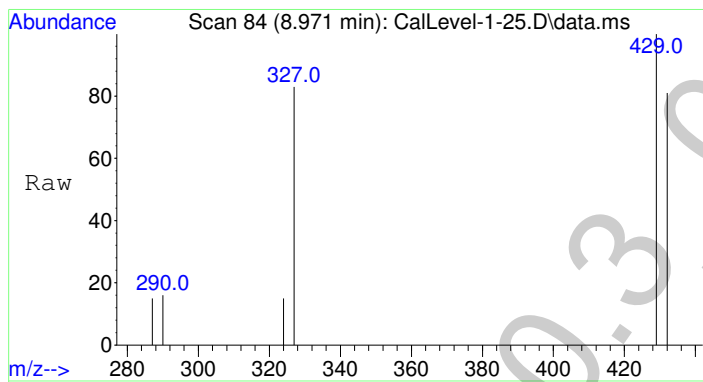
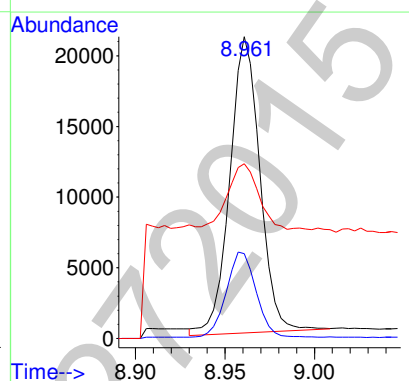
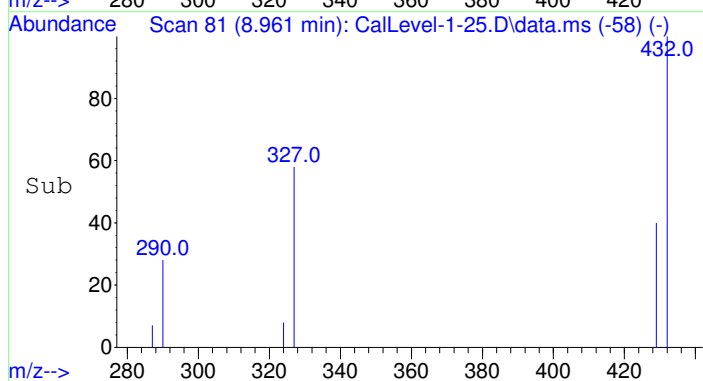


2



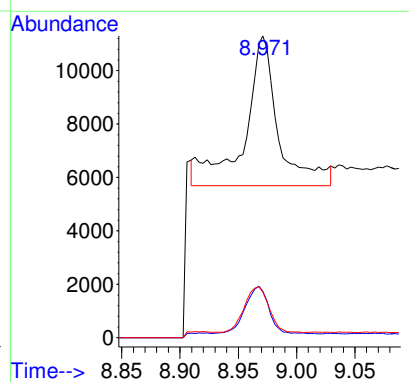
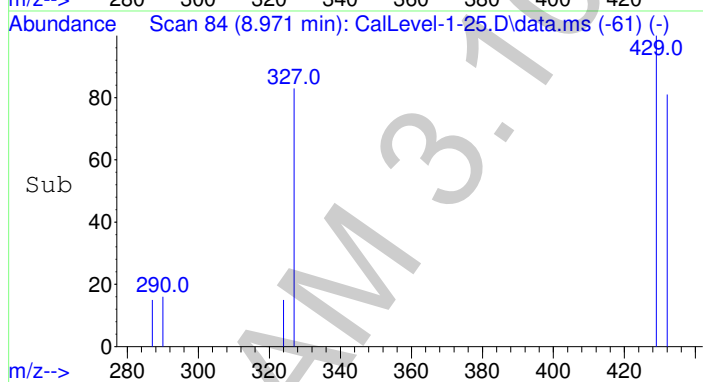
#3  
 Morphine-D3-TMS  
 Concen: 100.00 ng/mL  
 RT: 8.961 min Scan# 81  
 Delta R.T. -0.000 min  
 Lab File: CalLevel-1-25.D  
 Acq: 27 Jan 2015 23:26

Tgt Ion	Resp	Lower	Upper
432	100		
290	29.1	22.9	34.3
327	20.9	19.0	28.6



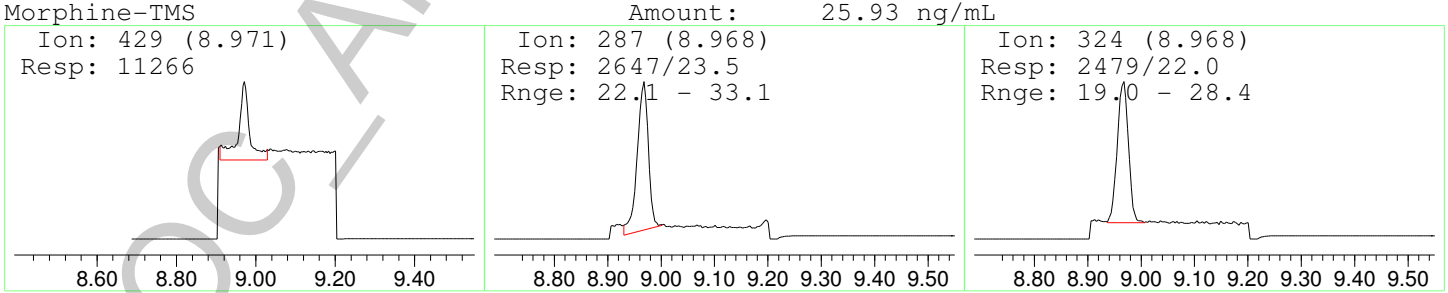
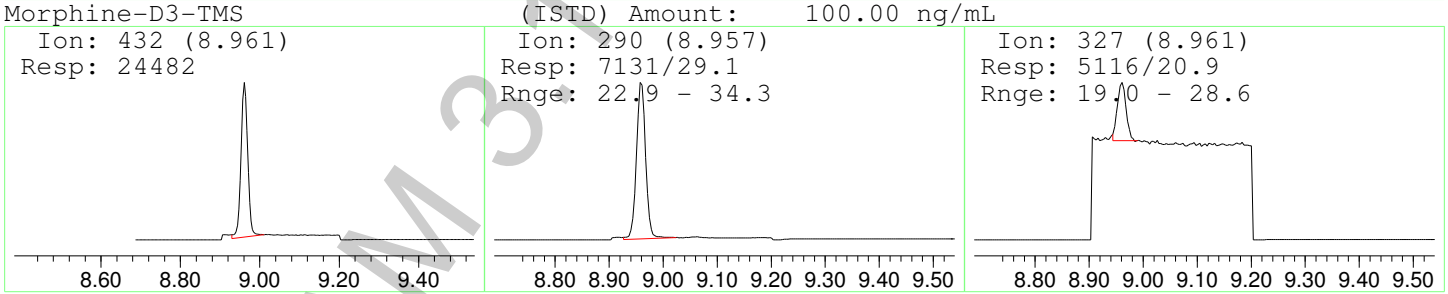
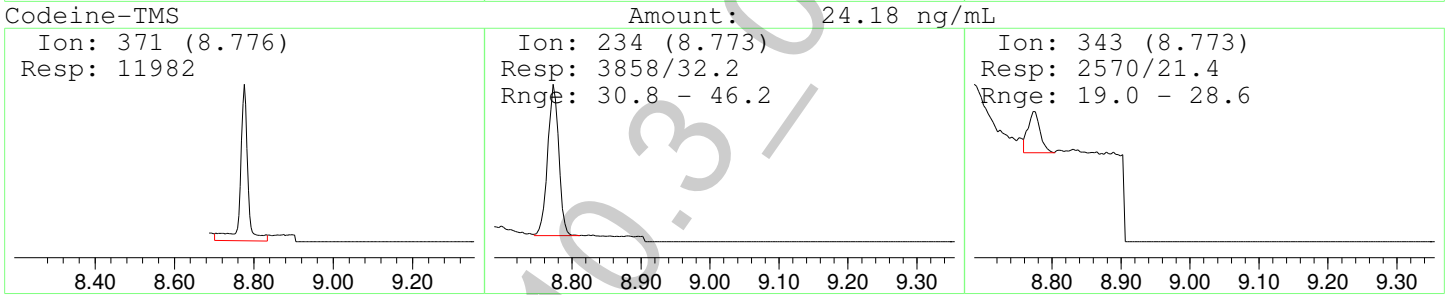
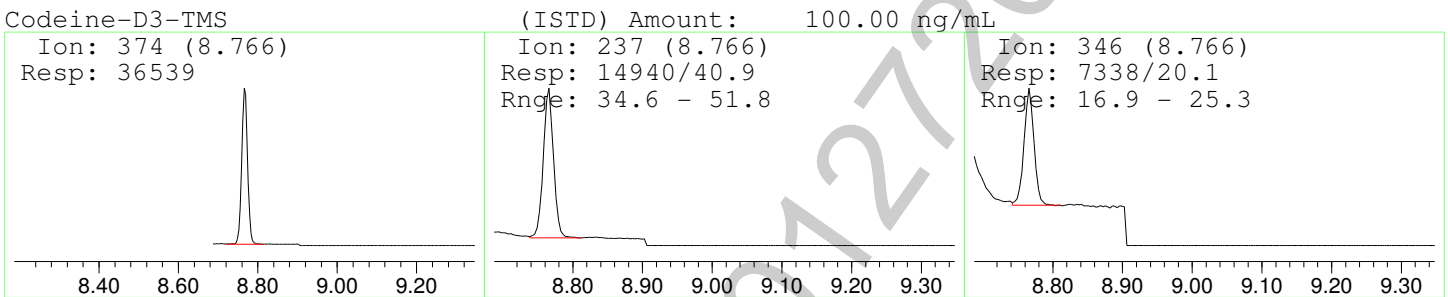
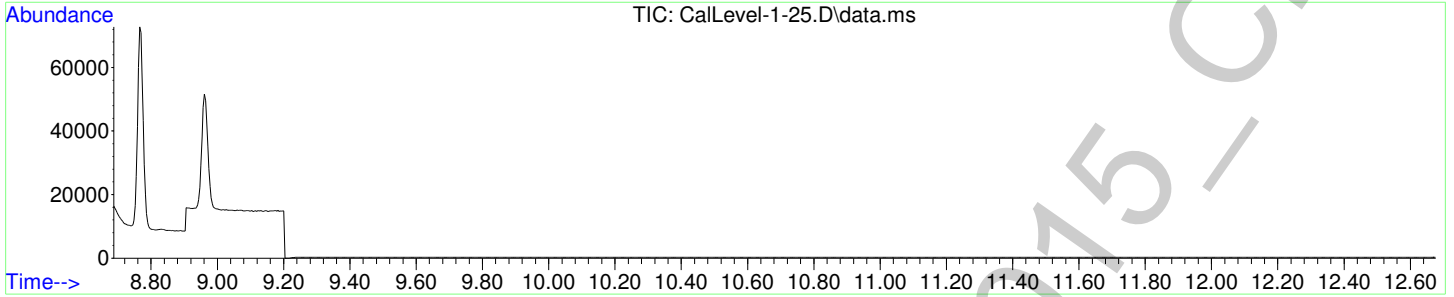
#4  
 Morphine-TMS  
 Concen: 25.93 ng/mL m  
 RT: 8.971 min Scan# 84  
 Delta R.T. 0.000 min  
 Lab File: CalLevel-1-25.D  
 Acq: 27 Jan 2015 23:26

Tgt Ion	Resp	Lower	Upper
429	100		
287	23.5	22.1	33.1
324	22.0	19.0	28.4



g

Data Path : F:\Data\012715OP\  
 Data File : CalLevel-1-25.D  
 Acq On : 27 Jan 2015 23:26  
 Operator : Pocatello Laboratory  
 Sample : Calibrator Level 1: 25ng/mL  
 Misc : Analytical Method 3.10.3  
 ALS Vial : 2 Sample Multiplier: 1



g

Data Path : F:\Data\012715OP\  
 Data File : CalLevel-2-50.D  
 Acq On : 27 Jan 2015 23:44  
 Operator : Pocatello Laboratory  
 Sample : Calibrator Level 2: 50ng/mL  
 Misc : Analytical Method 3.10.3  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 30 08:47:37 2015  
 Quant Method : F:\Methods\AM-3-10-3-D3.M  
 Quant Title : Analytical Method 3.10.3 - Codeine and Morphine  
 QLast Update : Fri Jan 30 08:41:21 2015  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Codeine-D3-TMS	8.766	374	38370	100.00	ng/mL	0.00
3) Morphine-D3-TMS	8.961	432	25919	100.00	ng/mL	0.00
Target Compounds						
2) Codeine-TMS	8.776	371	19481	43.45	ng/mL	97
4) Morphine-TMS	8.971	429	12766	30.01	ng/mL#	* 82

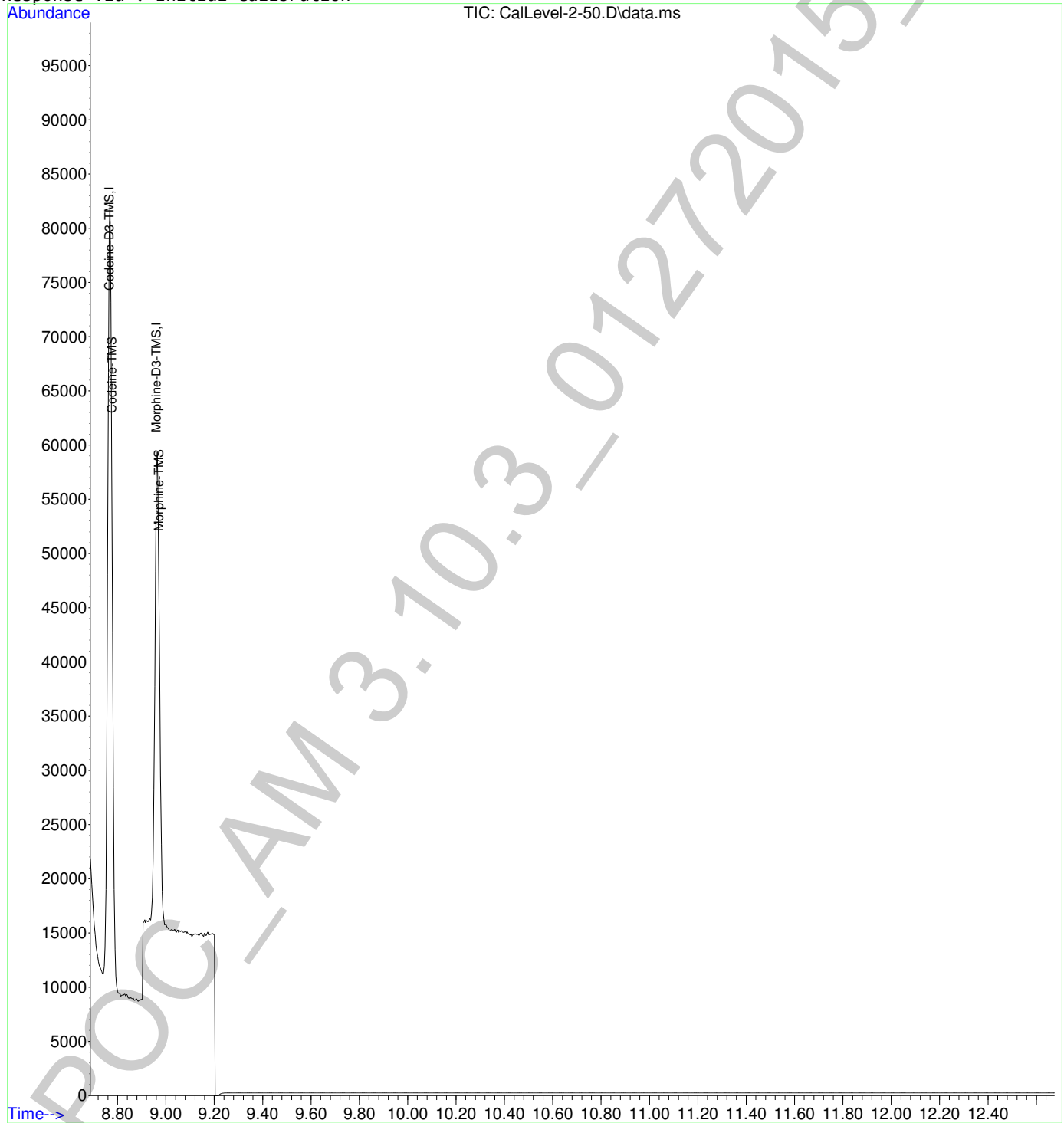
(#) = qualifier out of range (m) = manual integration (+) = signals summed

\*Qualifier ions out of range. Refer to manual integration.

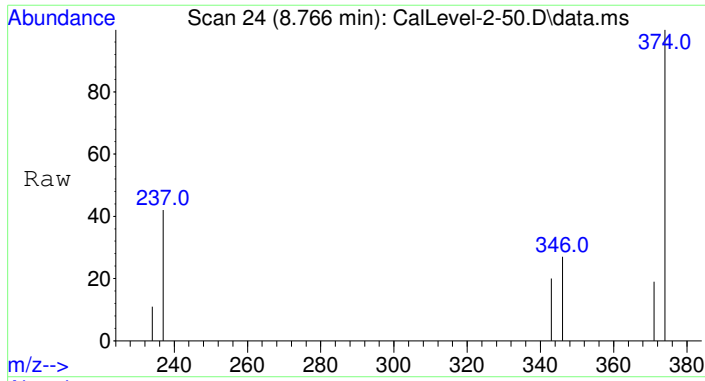
2

Data Path : F:\Data\0127150P\  
Data File : CalLevel-2-50.D  
Acq On : 27 Jan 2015 23:44  
Operator : Pocatello Laboratory  
Sample : Calibrator Level 2: 50ng/mL  
Misc : Analytical Method 3.10.3  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 30 08:47:37 2015  
Quant Method : F:\Methods\AM-3-10-3-D3.M  
Quant Title : Analytical Method 3.10.3 - Codeine and Morphine  
QLast Update : Fri Jan 30 08:41:21 2015  
Response via : Initial Calibration

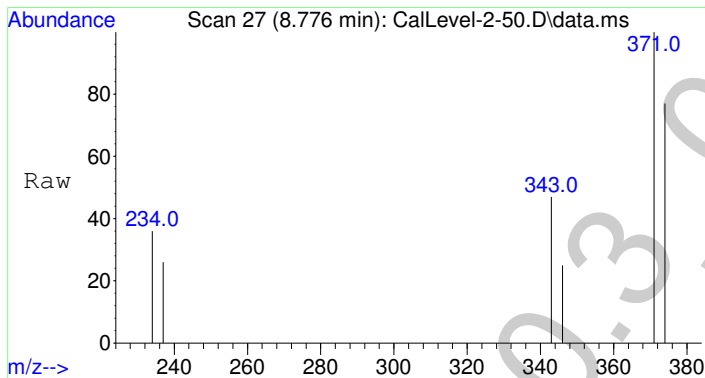
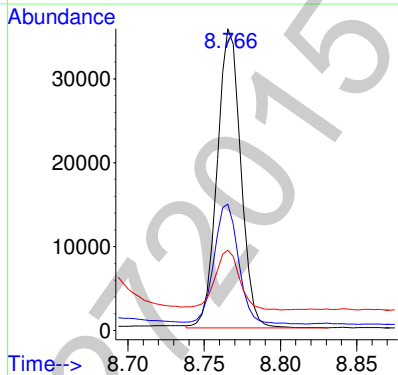
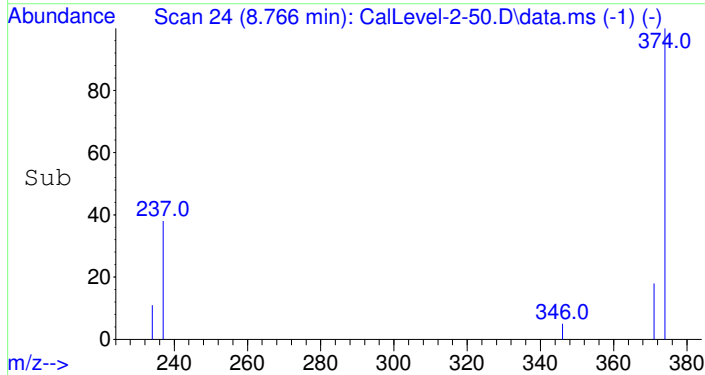


2



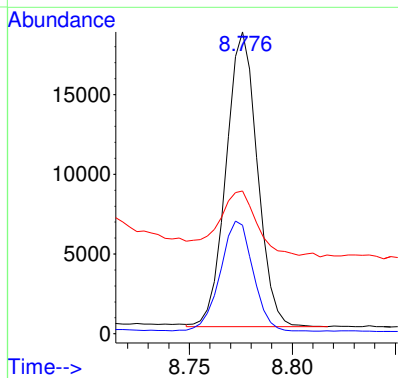
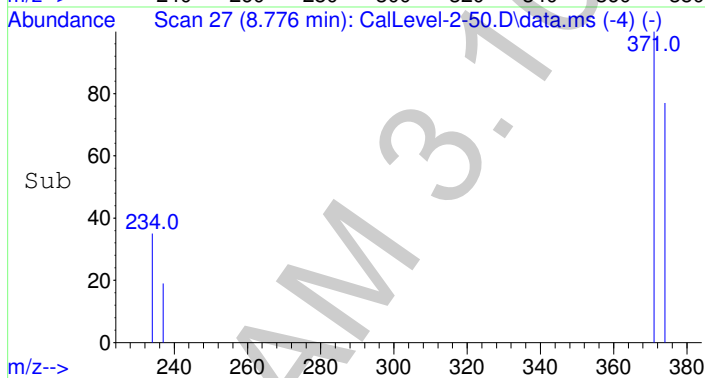
#1  
 Codeine-D3-TMS  
 Concen: 100.00 ng/mL  
 RT: 8.766 min Scan# 24  
 Delta R.T. -0.000 min  
 Lab File: CalLevel-2-50.D  
 Acq: 27 Jan 2015 23:44

Tgt Ion	Resp	Lower	Upper
374	38370		
374	100		
237	41.9	34.6	51.8
346	20.7	16.9	25.3



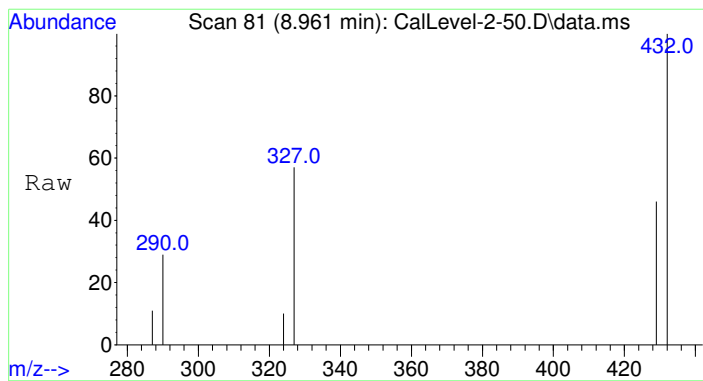
#2  
 Codeine-TMS  
 Concen: 43.45 ng/mL  
 RT: 8.776 min Scan# 27  
 Delta R.T. -0.000 min  
 Lab File: CalLevel-2-50.D  
 Acq: 27 Jan 2015 23:44

Tgt Ion	Resp	Lower	Upper
371	19481		
371	100		
234	39.4	30.8	46.2
343	26.5	19.0	28.6



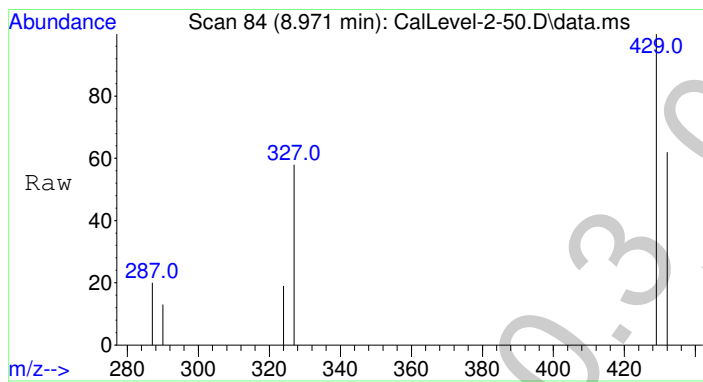
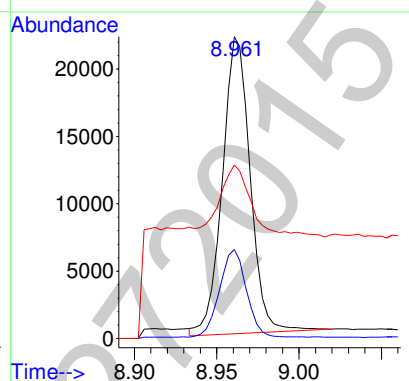
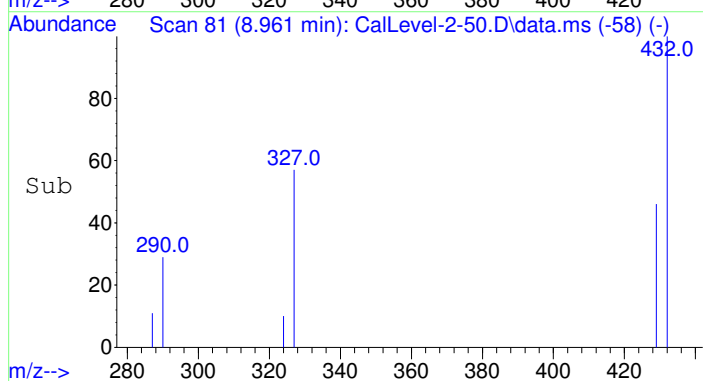


2



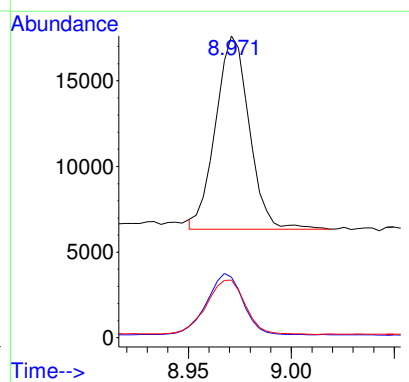
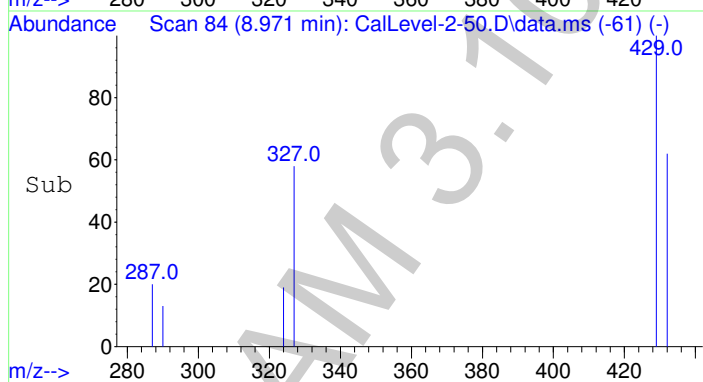
#3  
 Morphine-D3-TMS  
 Concen: 100.00 ng/mL  
 RT: 8.961 min Scan# 81  
 Delta R.T. -0.000 min  
 Lab File: CalLevel-2-50.D  
 Acq: 27 Jan 2015 23:44

Tgt Ion	Resp	Lower	Upper
432	100		
290	28.5	22.9	34.3
327	25.7	19.0	28.6



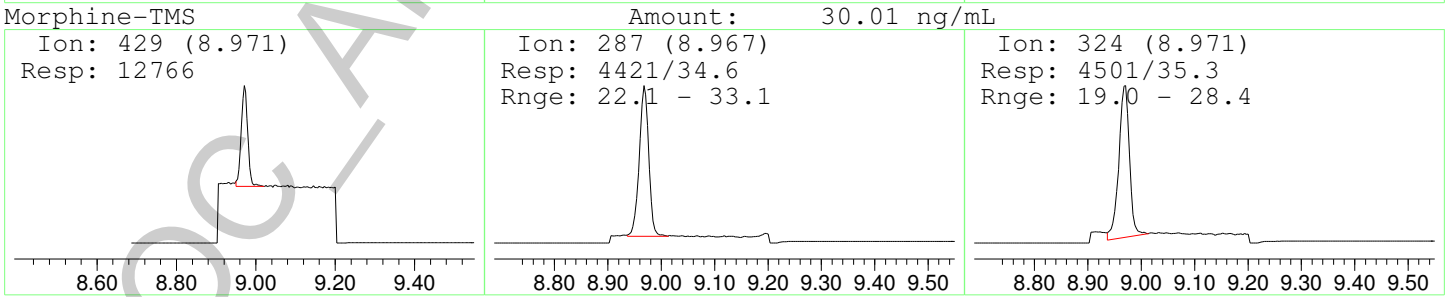
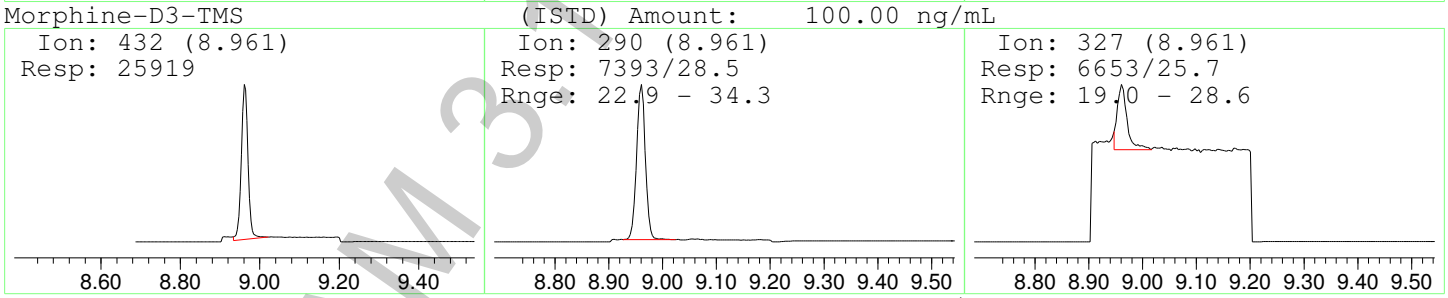
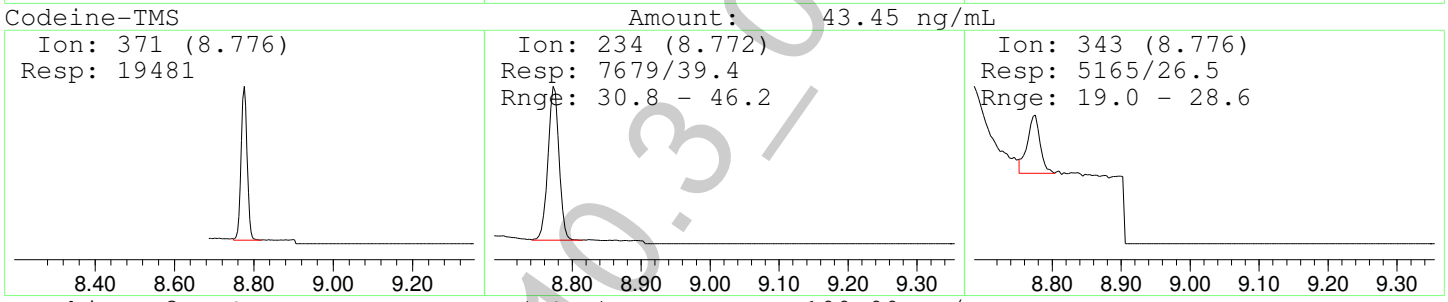
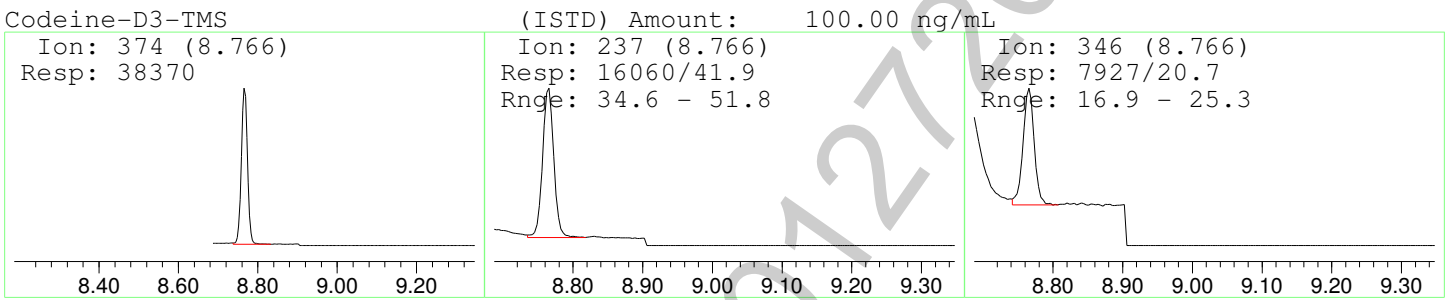
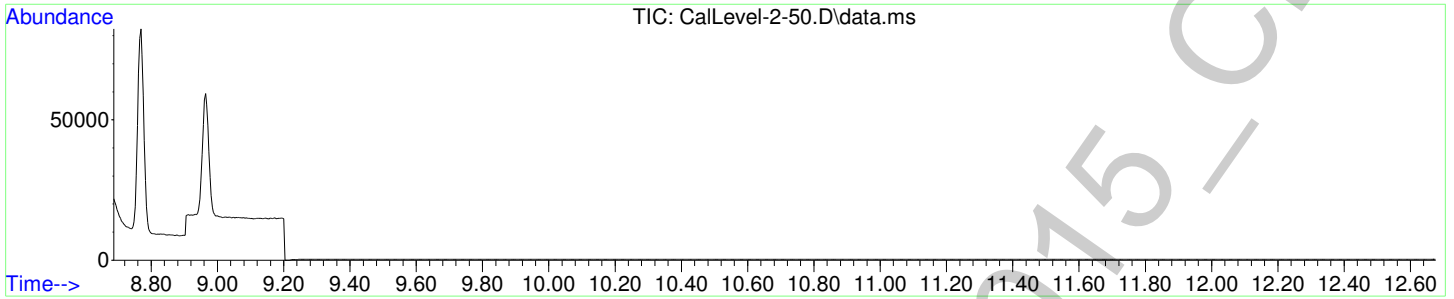
#4  
 Morphine-TMS  
 Concen: 30.01 ng/mL  
 RT: 8.971 min Scan# 84  
 Delta R.T. -0.000 min  
 Lab File: CalLevel-2-50.D  
 Acq: 27 Jan 2015 23:44

Tgt Ion	Resp	Lower	Upper
429	100		
287	34.6	22.1	33.1#
324	35.3	19.0	28.4#



2

Data Path : F:\Data\012715OP\  
 Data File : CalLevel-2-50.D  
 Acq On : 27 Jan 2015 23:44  
 Operator : Pocatello Laboratory  
 Sample : Calibrator Level 2: 50ng/mL  
 Misc : Analytical Method 3.10.3  
 ALS Vial : 3 Sample Multiplier: 1



Data Path : F:\Data\012715OP\  
 Data File : CalLevel-2-50.D  
 Acq On : 27 Jan 2015 23:44  
 Operator : Pocatello Laboratory  
 Sample : Calibrator Level 2: 50ng/mL  
 Misc : Analytical Method 3.10.3  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 30 08:47:37 2015  
 Quant Method : F:\Methods\AM-3-10-3-D3.M  
 Quant Title : Analytical Method 3.10.3 - Codeine and Morphine  
 QLast Update : Fri Jan 30 08:41:21 2015  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Codeine-D3-TMS	8.766	374	38370	100.00	ng/mL	0.00
3) Morphine-D3-TMS	8.961	432	25919	100.00	ng/mL	0.00
Target Compounds						
2) Codeine-TMS	8.776	371	21976m	50.41	ng/mL *	Qvalue
4) Morphine-TMS	8.971	429	15912m	45.28	ng/mL	

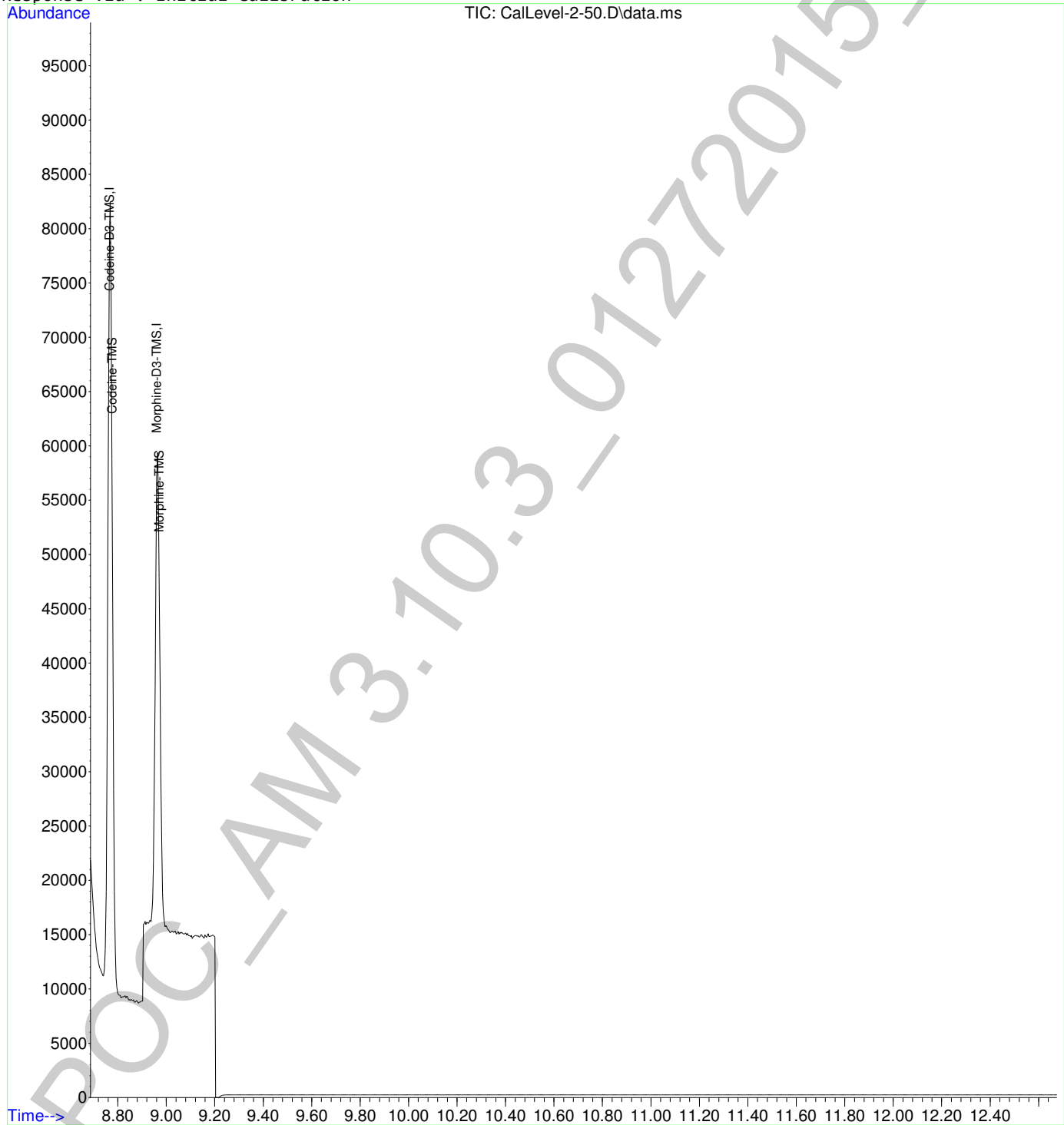
(#) = qualifier out of range (m) = manual integration (+) = signals summed

\*Manual integration successful.

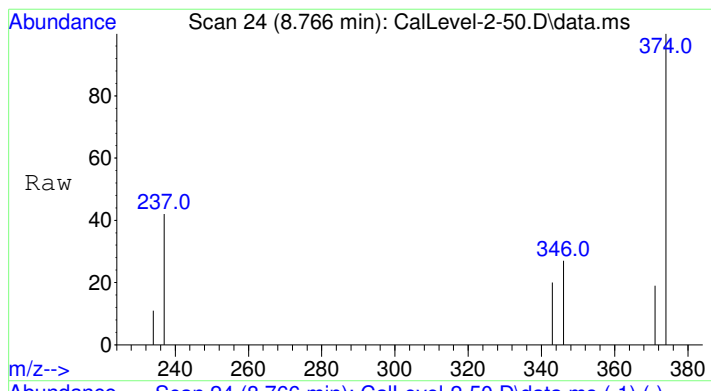
6

Data Path : F:\Data\0127150P\  
Data File : CalLevel-2-50.D  
Acq On : 27 Jan 2015 23:44  
Operator : Pocatello Laboratory  
Sample : Calibrator Level 2: 50ng/mL  
Misc : Analytical Method 3.10.3  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 30 08:47:37 2015  
Quant Method : F:\Methods\AM-3-10-3-D3.M  
Quant Title : Analytical Method 3.10.3 - Codeine and Morphine  
QLast Update : Fri Jan 30 08:41:21 2015  
Response via : Initial Calibration

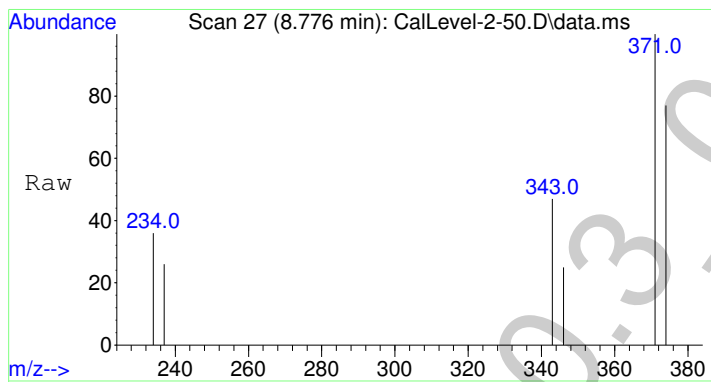
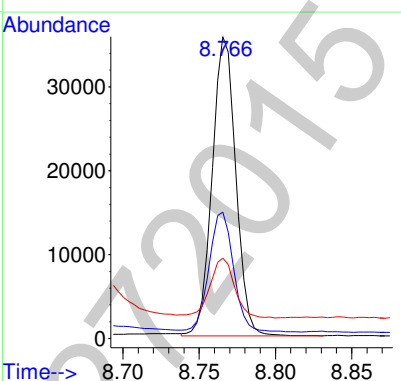
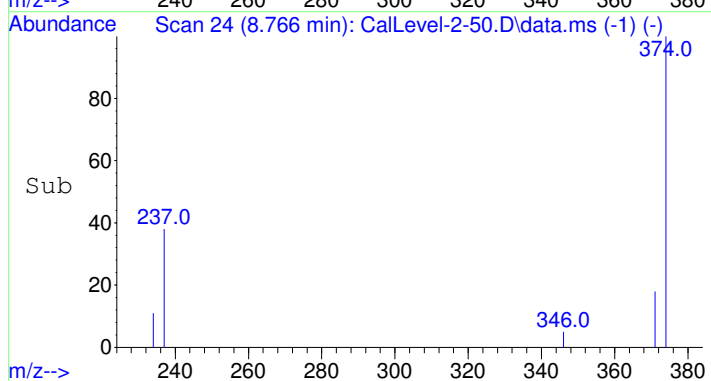


2



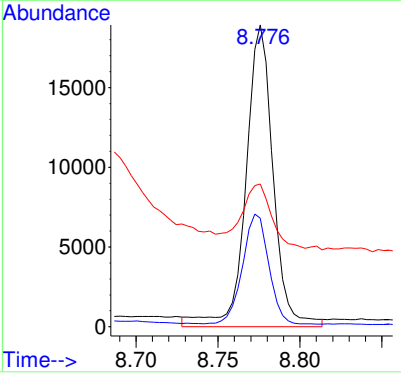
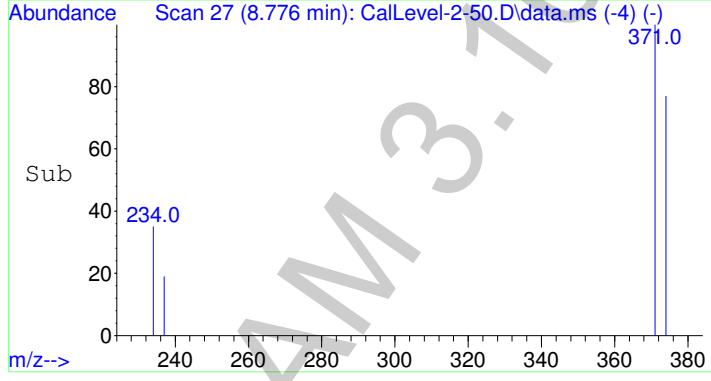
#1  
 Codeine-D3-TMS  
 Concen: 100.00 ng/mL  
 RT: 8.766 min Scan# 24  
 Delta R.T. -0.000 min  
 Lab File: CalLevel-2-50.D  
 Acq: 27 Jan 2015 23:44

Tgt Ion	Resp	Lower	Upper
374	38370		
374	100		
237	41.9	34.6	51.8
346	20.7	16.9	25.3

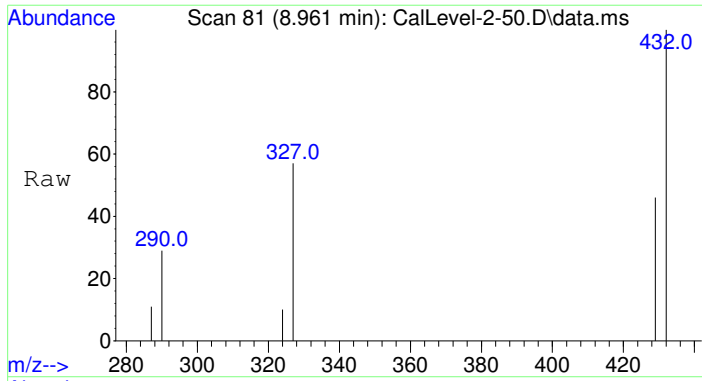


#2  
 Codeine-TMS  
 Concen: 50.41 ng/mL m  
 RT: 8.776 min Scan# 27  
 Delta R.T. -0.000 min  
 Lab File: CalLevel-2-50.D  
 Acq: 27 Jan 2015 23:44

Tgt Ion	Resp	Lower	Upper
371	21976		
371	100		
234	34.9	30.8	46.2
343	23.5	19.0	28.6

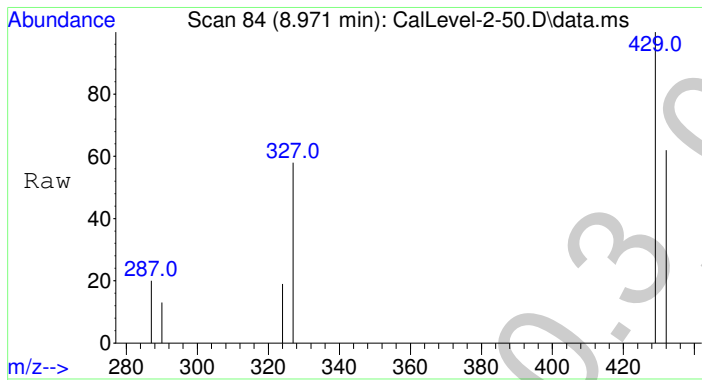
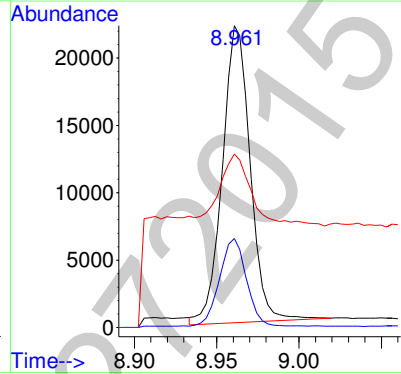
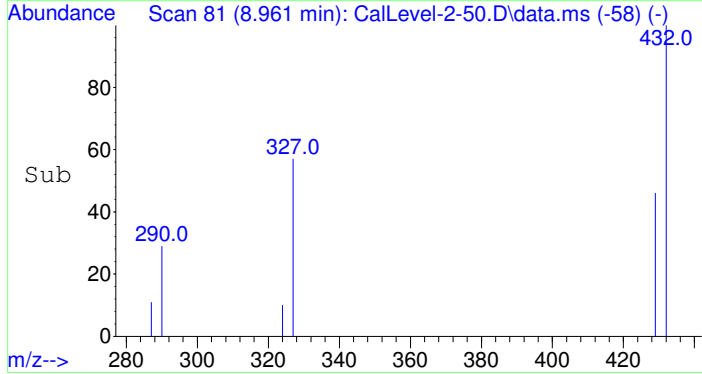


2



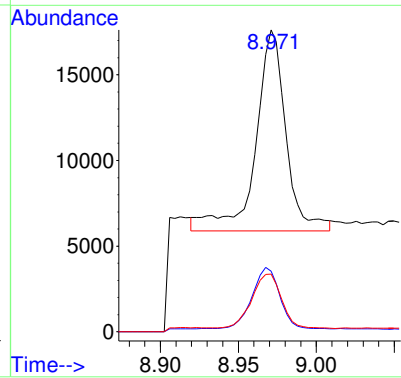
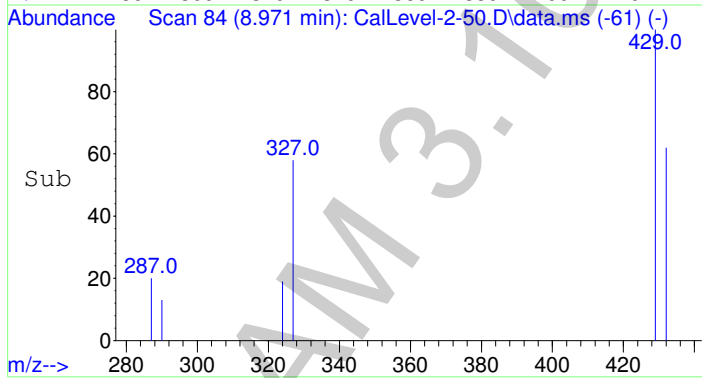
#3  
 Morphine-D3-TMS  
 Concen: 100.00 ng/mL  
 RT: 8.961 min Scan# 81  
 Delta R.T. -0.000 min  
 Lab File: CalLevel-2-50.D  
 Acq: 27 Jan 2015 23:44

Tgt Ion	Resp	Lower	Upper
432	100		
290	28.5	22.9	34.3
327	25.7	19.0	28.6



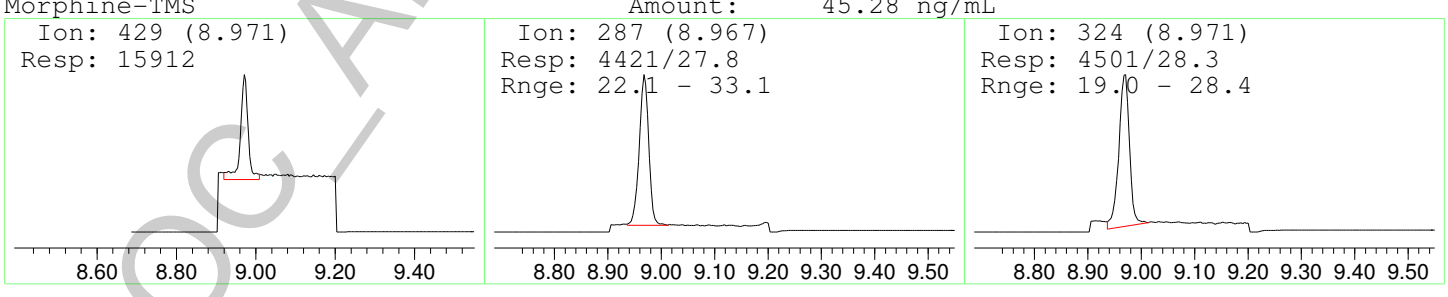
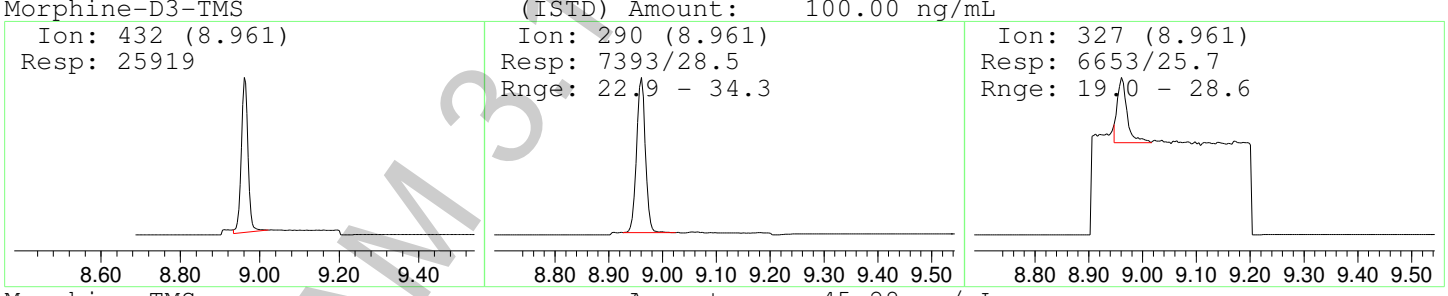
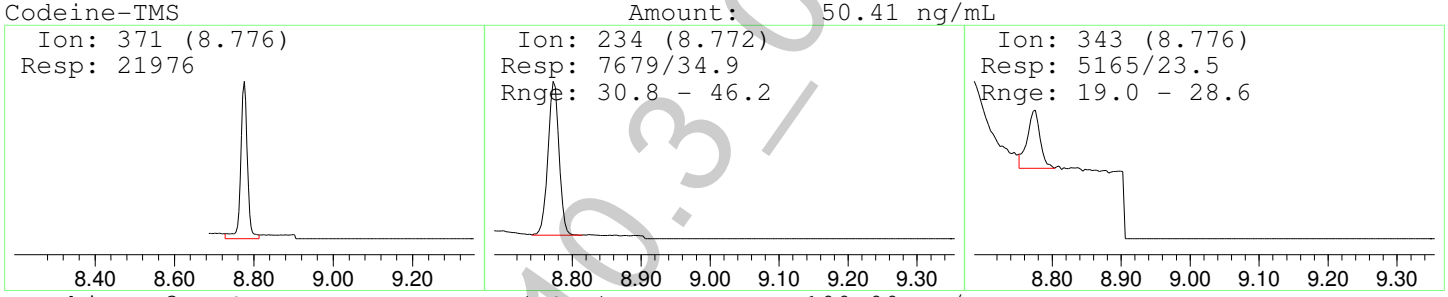
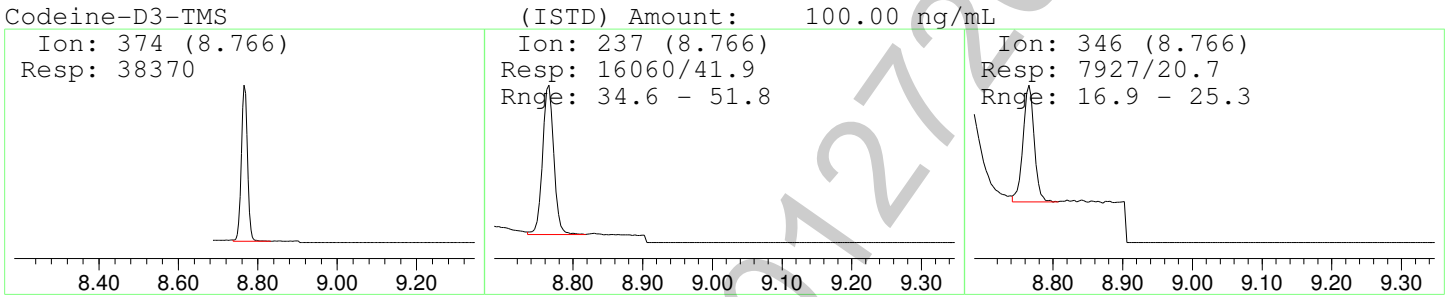
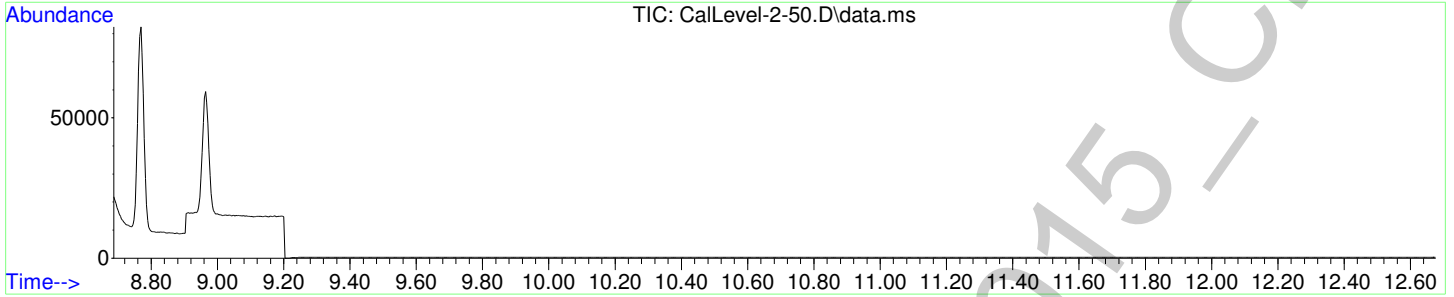
#4  
 Morphine-TMS  
 Concen: 45.28 ng/mL m  
 RT: 8.971 min Scan# 84  
 Delta R.T. -0.000 min  
 Lab File: CalLevel-2-50.D  
 Acq: 27 Jan 2015 23:44

Tgt Ion	Resp	Lower	Upper
429	100		
287	27.8	22.1	33.1
324	28.3	19.0	28.4



2

Data Path : F:\Data\012715OP\  
 Data File : CalLevel-2-50.D  
 Acq On : 27 Jan 2015 23:44  
 Operator : Pocatello Laboratory  
 Sample : Calibrator Level 2: 50ng/mL  
 Misc : Analytical Method 3.10.3  
 ALS Vial : 3 Sample Multiplier: 1



Data Path : F:\Data\012715OP\  
 Data File : CalLevel-3-100.D  
 Acq On : 28 Jan 2015 00:03  
 Operator : Pocatello Laboratory  
 Sample : Calibrator Level 3: 100ng/mL  
 Misc : Analytical Method 3.10.3  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 30 08:53:47 2015  
 Quant Method : F:\Methods\AM-3-10-3-D3.M  
 Quant Title : Analytical Method 3.10.3 - Codeine and Morphine  
 QLast Update : Fri Jan 30 08:41:21 2015  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Codeine-D3-TMS	8.765	374	40928	100.00	ng/mL	0.00
3) Morphine-D3-TMS	8.960	432	28857	100.00	ng/mL	0.00
Target Compounds						
2) Codeine-TMS	8.776	371	43253	102.28	ng/mL	Qvalue 100
4) Morphine-TMS	8.971	429	34063	116.55	ng/mL	100

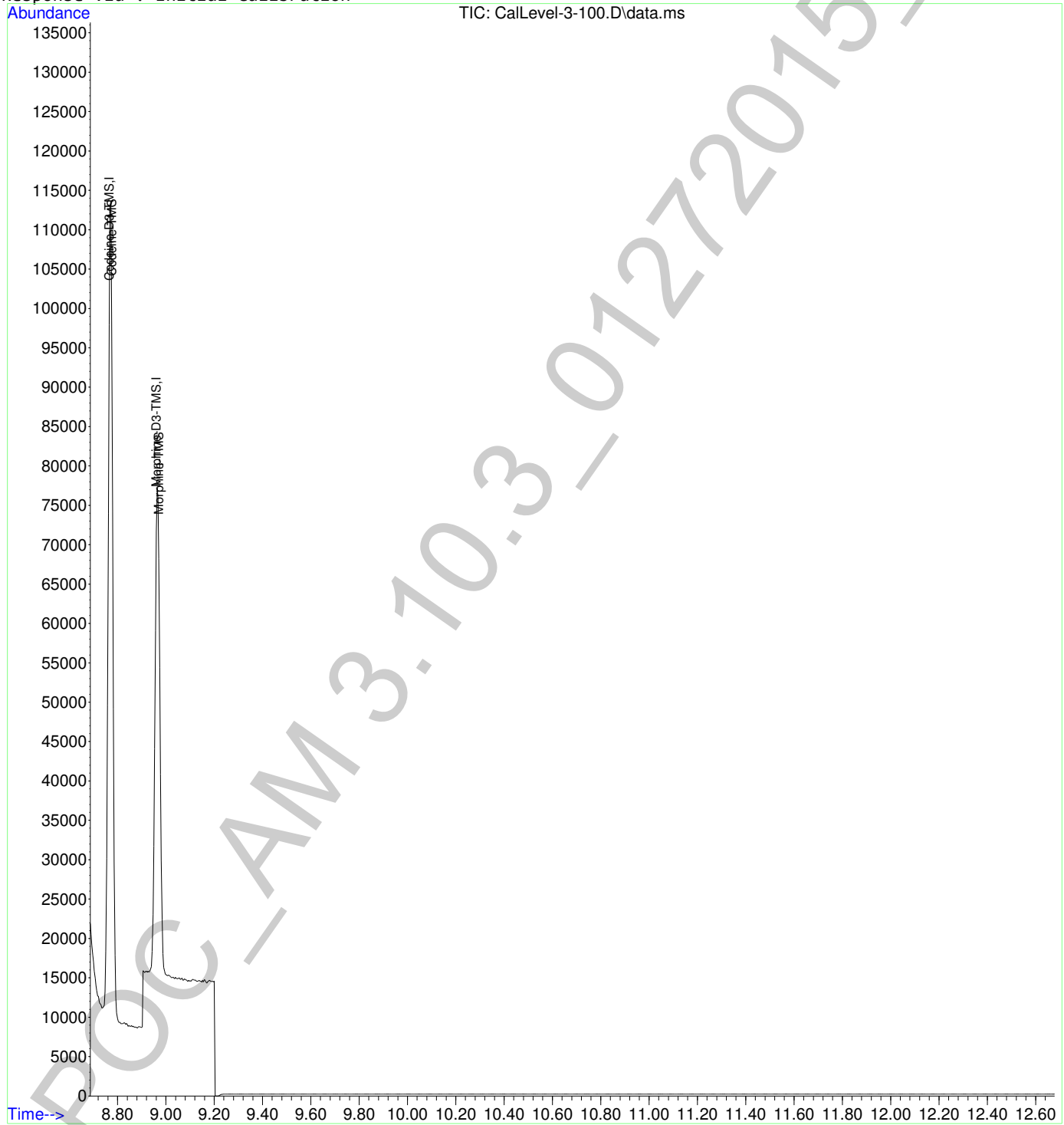
(#) = qualifier out of range (m) = manual integration (+) = signals summed



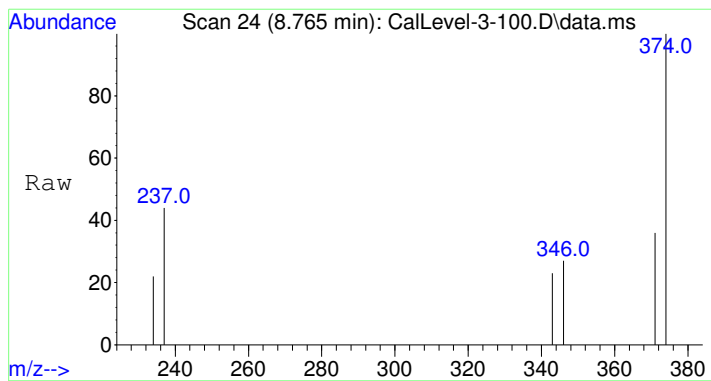
6

Data Path : F:\Data\0127150P\  
Data File : CalLevel-3-100.D  
Acq On : 28 Jan 2015 00:03  
Operator : Pocatello Laboratory  
Sample : Calibrator Level 3: 100ng/mL  
Misc : Analytical Method 3.10.3  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 30 08:53:47 2015  
Quant Method : F:\Methods\AM-3-10-3-D3.M  
Quant Title : Analytical Method 3.10.3 - Codeine and Morphine  
QLast Update : Fri Jan 30 08:41:21 2015  
Response via : Initial Calibration

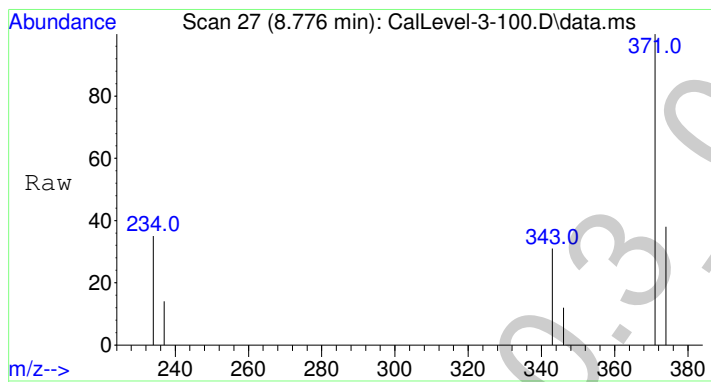
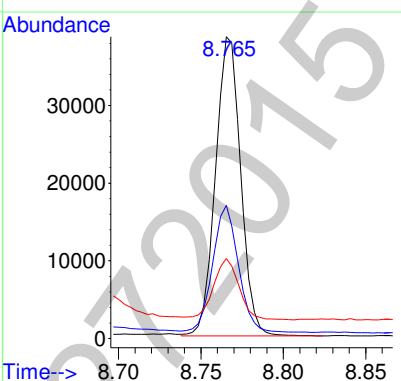
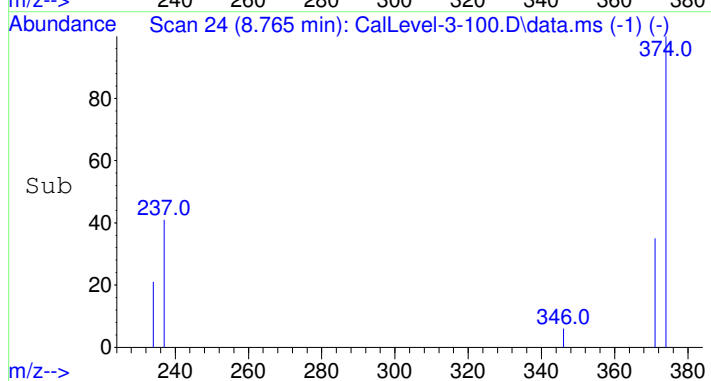


2



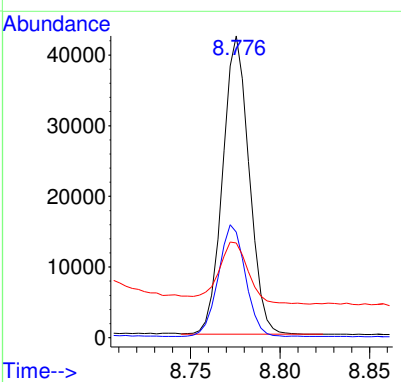
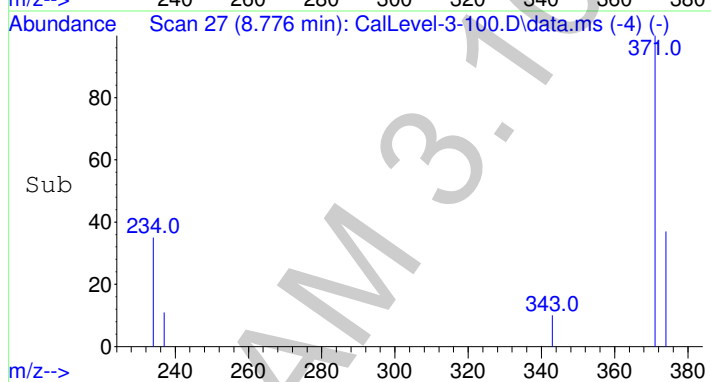
#1  
Codeine-D3-TMS  
Concen: 100.00 ng/mL  
RT: 8.765 min Scan# 24  
Delta R.T. -0.001 min  
Lab File: CalLevel-3-100.D  
Acq: 28 Jan 2015 00:03

Tgt Ion	Resp	Lower	Upper
374	40928		
374	100		
237	43.2	34.6	51.8
346	21.1	16.9	25.3

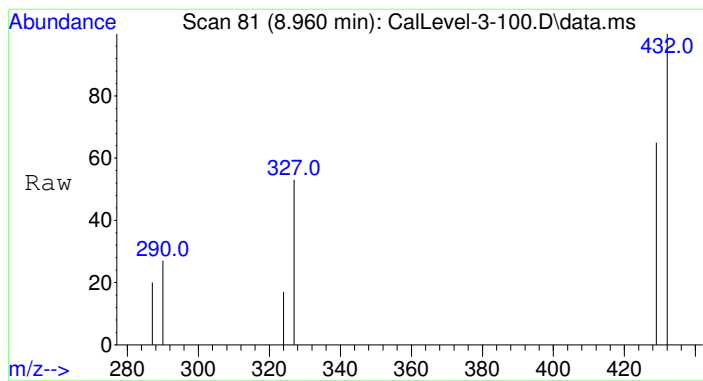


#2  
Codeine-TMS  
Concen: 102.28 ng/mL  
RT: 8.776 min Scan# 27  
Delta R.T. -0.000 min  
Lab File: CalLevel-3-100.D  
Acq: 28 Jan 2015 00:03

Tgt Ion	Resp	Lower	Upper
371	43253		
371	100		
234	38.5	30.8	46.2
343	23.8	19.0	28.6

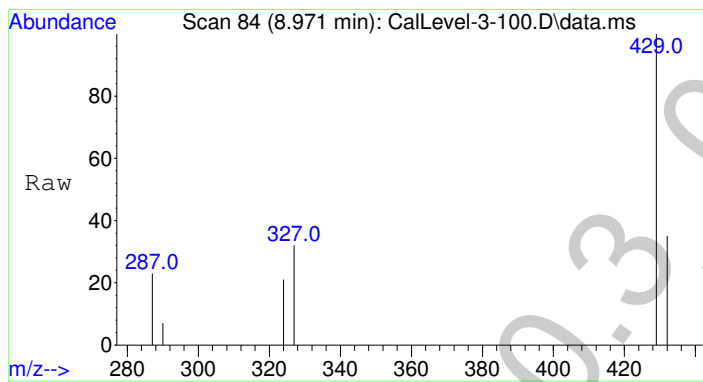
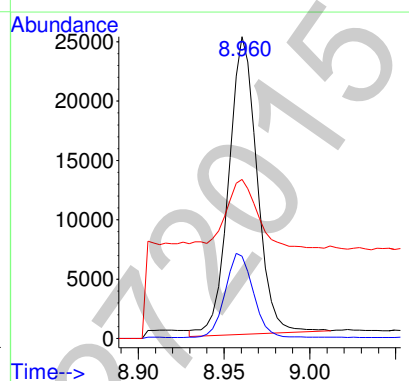
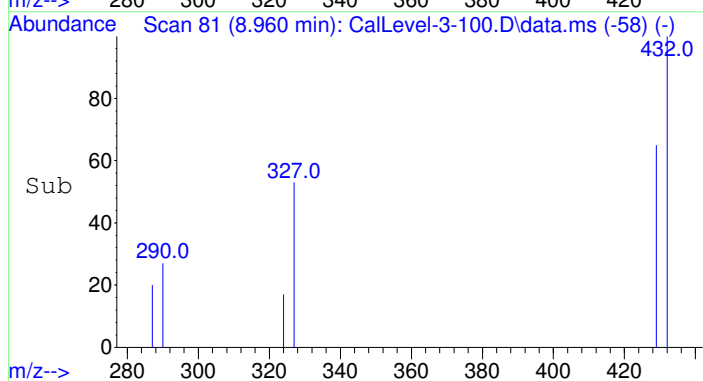


2



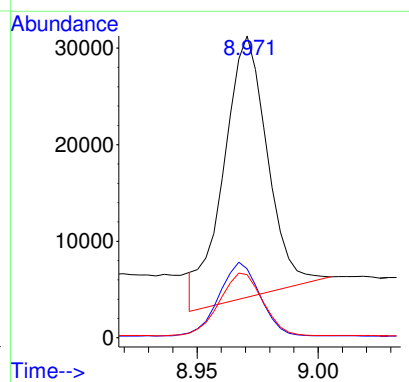
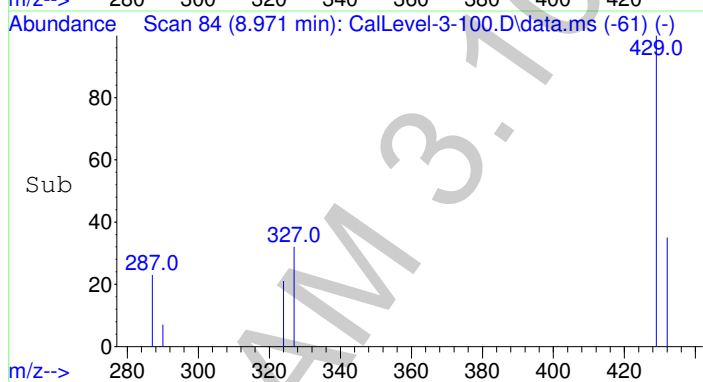
#3  
 Morphine-D3-TMS  
 Concen: 100.00 ng/mL  
 RT: 8.960 min Scan# 81  
 Delta R.T. -0.001 min  
 Lab File: CalLevel-3-100.D  
 Acq: 28 Jan 2015 00:03

Tgt Ion	Resp	Lower	Upper
432	100		
290	28.6	22.9	34.3
327	23.8	19.0	28.6



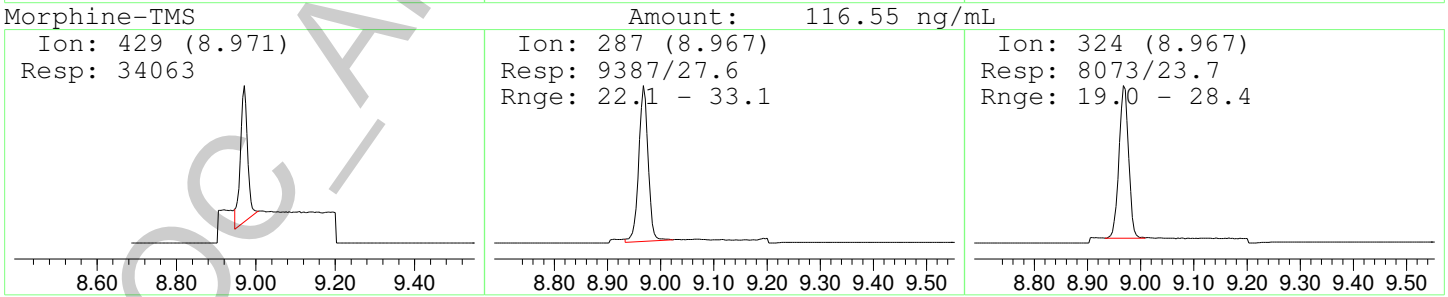
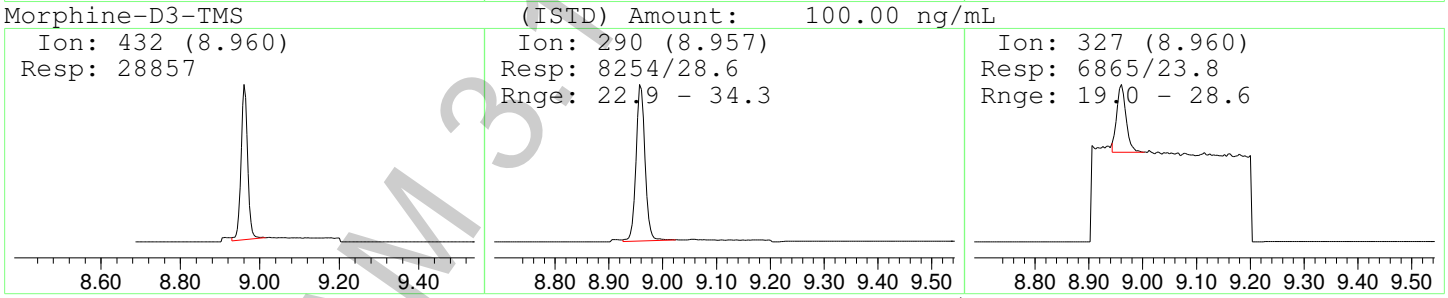
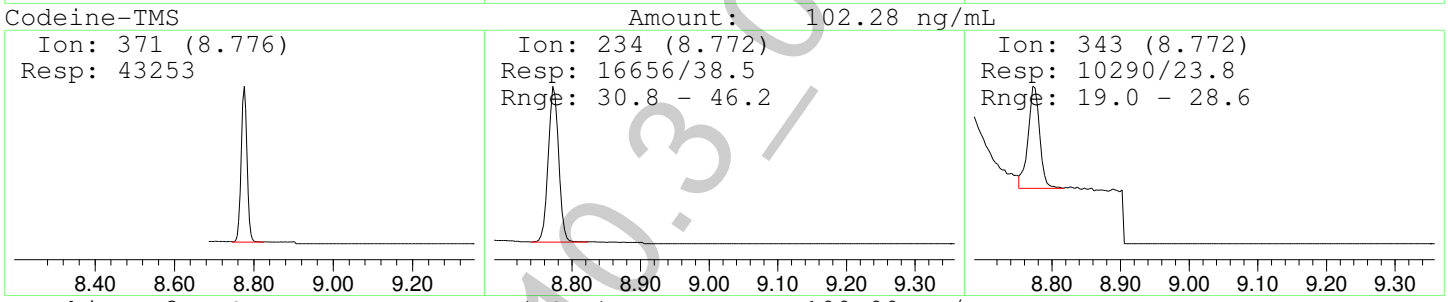
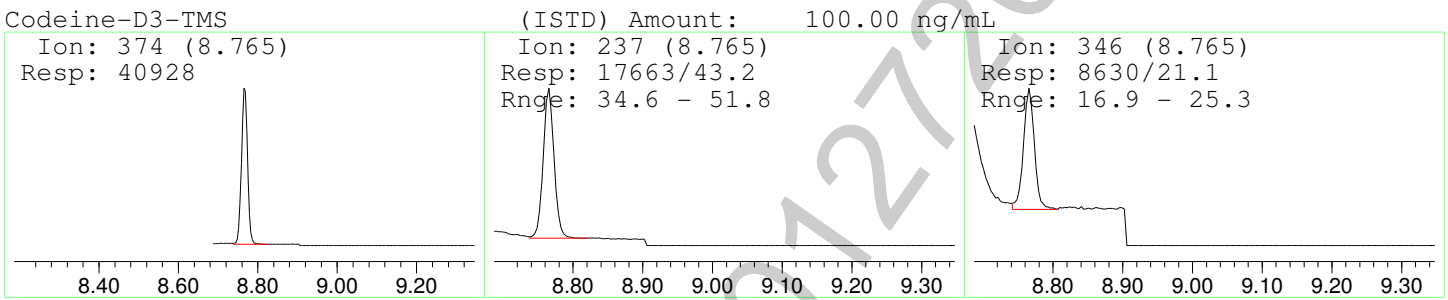
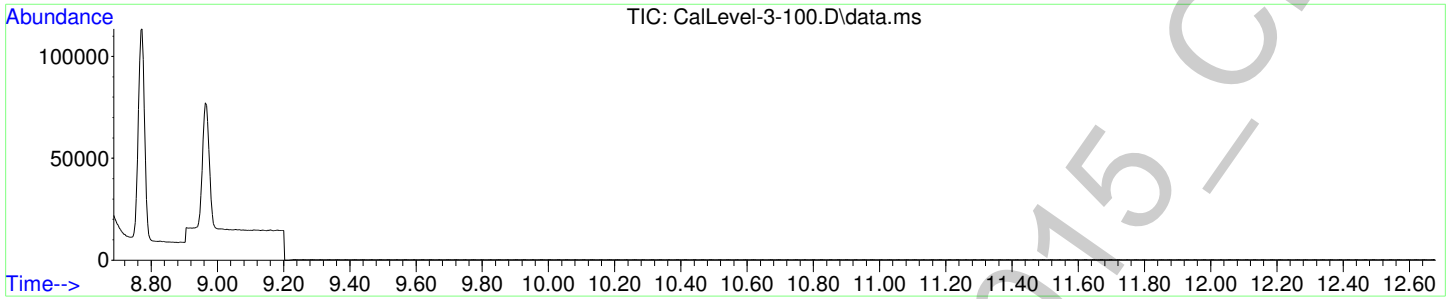
#4  
 Morphine-TMS  
 Concen: 116.55 ng/mL  
 RT: 8.971 min Scan# 84  
 Delta R.T. -0.000 min  
 Lab File: CalLevel-3-100.D  
 Acq: 28 Jan 2015 00:03

Tgt Ion	Resp	Lower	Upper
429	100		
287	27.6	22.1	33.1
324	23.7	19.0	28.4



2

Data Path : F:\Data\012715OP\  
 Data File : CalLevel-3-100.D  
 Acq On : 28 Jan 2015 00:03  
 Operator : Pocatello Laboratory  
 Sample : Calibrator Level 3: 100ng/mL  
 Misc : Analytical Method 3.10.3  
 ALS Vial : 4 Sample Multiplier: 1



g

Data Path : F:\Data\012715OP\  
 Data File : CalLevel-4-250.D  
 Acq On : 28 Jan 2015 00:22  
 Operator : Pocatello Laboratory  
 Sample : Calibrator Level 4: 250ng/mL  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 30 08:54:27 2015  
 Quant Method : F:\Methods\AM-3-10-3-D3.M  
 Quant Title : Analytical Method 3.10.3 - Codeine and Morphine  
 QLast Update : Fri Jan 30 08:41:21 2015  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Codeine-D3-TMS	8.769	374	43095	100.00	ng/mL	0.00
3) Morphine-D3-TMS	8.964	432	31904	100.00	ng/mL *#	0.00
Target Compounds						
2) Codeine-TMS	8.776	371	108500	258.82	ng/mL	97
4) Morphine-TMS	8.971	429	73995	259.85	ng/mL	94

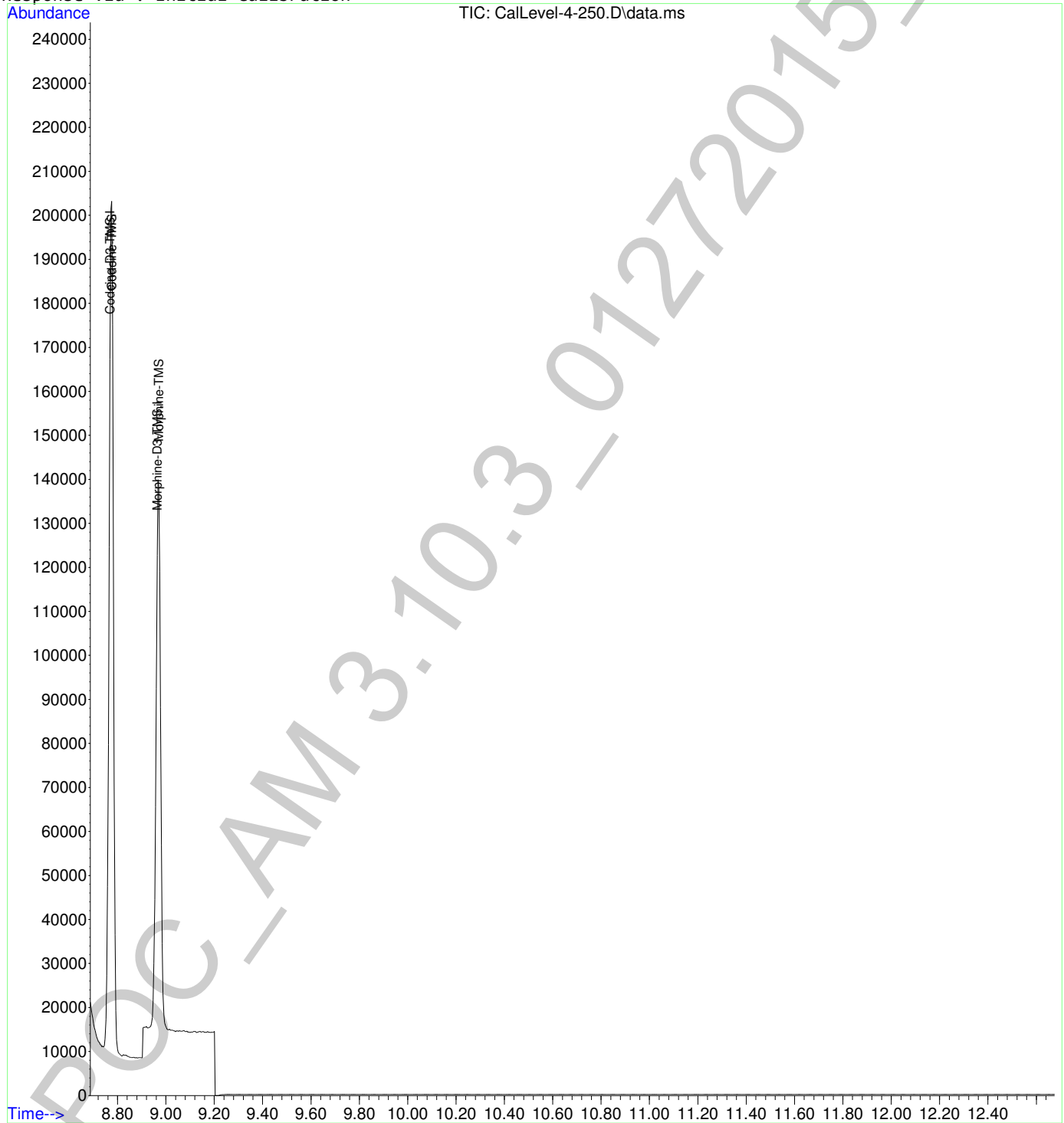
(#) = qualifier out of range (m) = manual integration (+) = signals summed

\*Unable to manually integrate. Confirm all samples >100ng/mL using full scan data.

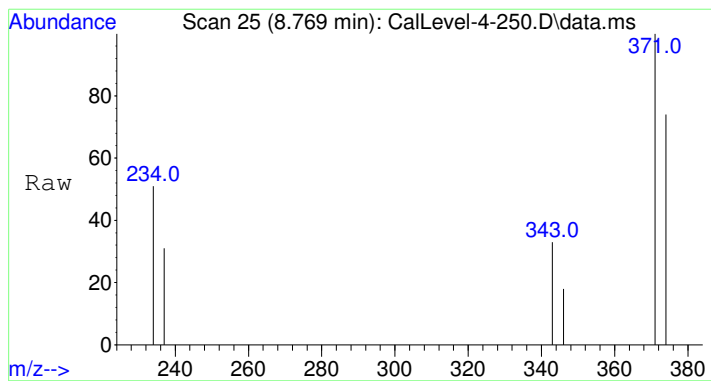
2

Data Path : F:\Data\0127150P\  
Data File : CalLevel-4-250.D  
Acq On : 28 Jan 2015 00:22  
Operator : Pocatello Laboratory  
Sample : Calibrator Level 4: 250ng/mL  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 30 08:54:27 2015  
Quant Method : F:\Methods\AM-3-10-3-D3.M  
Quant Title : Analytical Method 3.10.3 - Codeine and Morphine  
QLast Update : Fri Jan 30 08:41:21 2015  
Response via : Initial Calibration

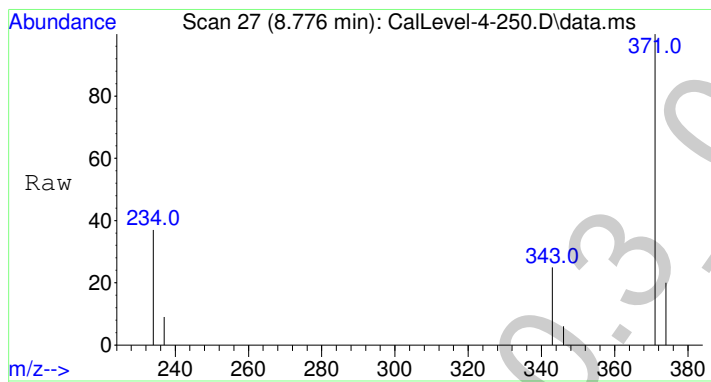
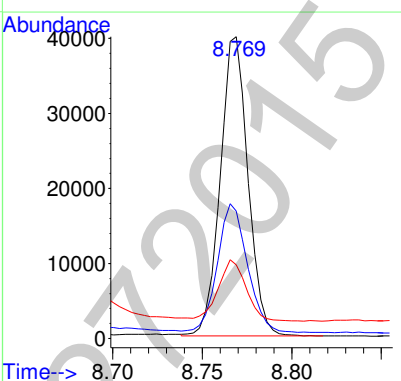
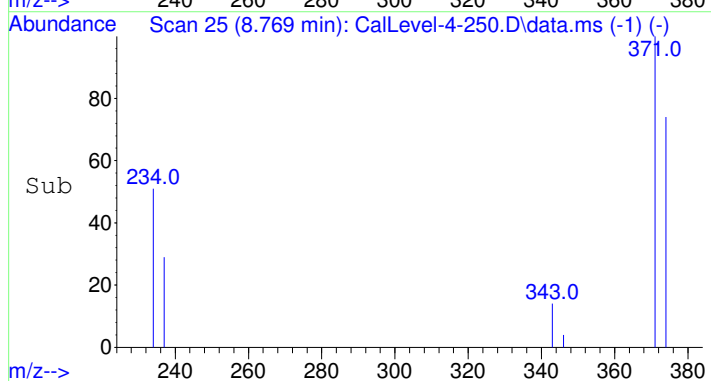


2



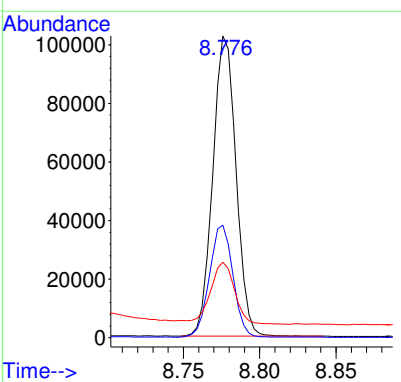
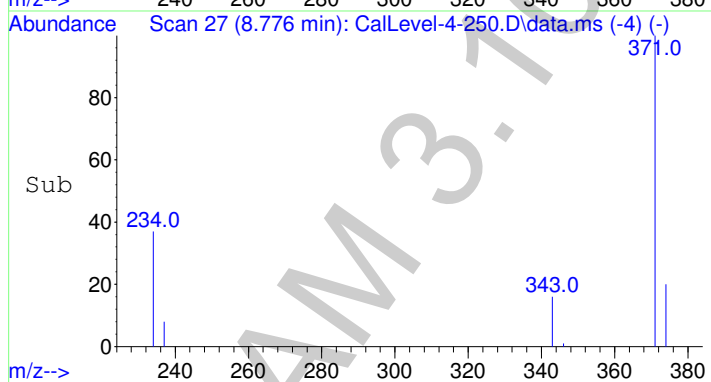
#1  
Codeine-D3-TMS  
Concen: 100.00 ng/mL  
RT: 8.769 min Scan# 25  
Delta R.T. 0.003 min  
Lab File: CalLevel-4-250.D  
Acq: 28 Jan 2015 00:22

Tgt Ion	Resp	Lower	Upper
374	43095		
374	100		
237	47.0	34.6	51.8
346	20.7	16.9	25.3

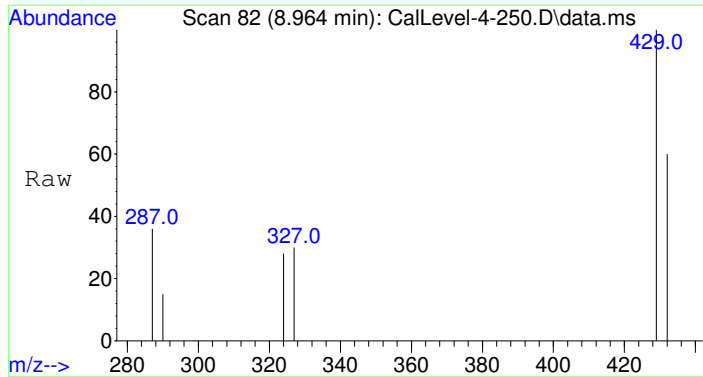


#2  
Codeine-TMS  
Concen: 258.82 ng/mL  
RT: 8.776 min Scan# 27  
Delta R.T. -0.000 min  
Lab File: CalLevel-4-250.D  
Acq: 28 Jan 2015 00:22

Tgt Ion	Resp	Lower	Upper
371	108500		
371	100		
234	37.7	30.8	46.2
343	21.6	19.0	28.6

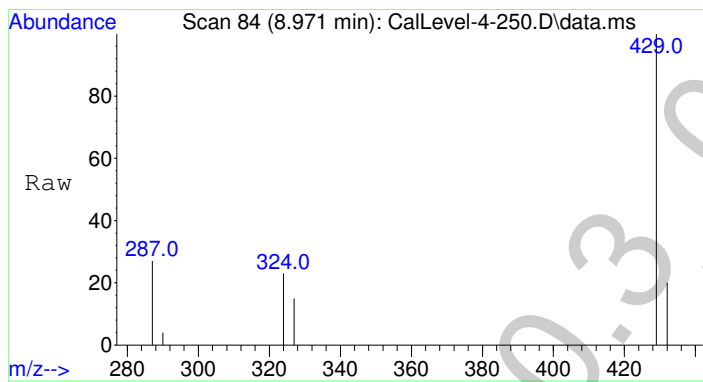
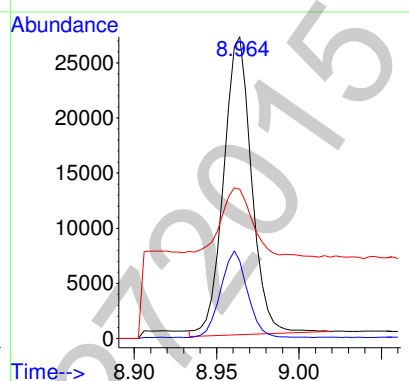
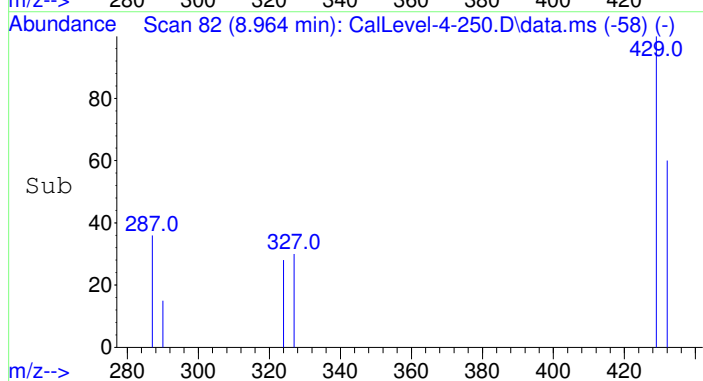


2



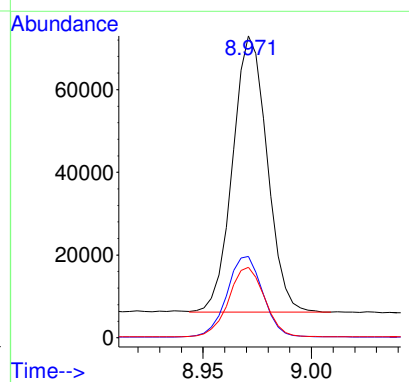
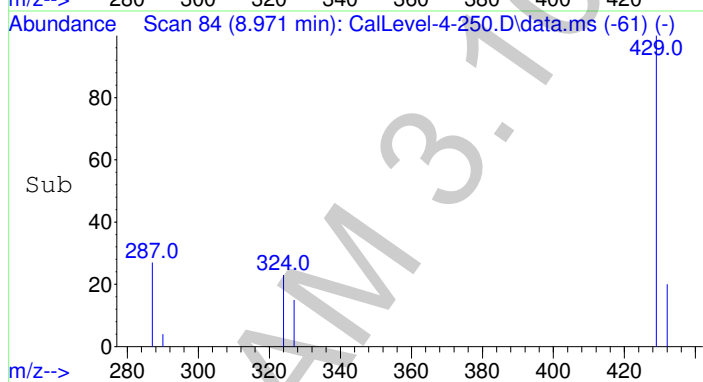
#3  
Morphine-D3-TMS  
Concen: 100.00 ng/mL  
RT: 8.964 min Scan# 82  
Delta R.T. 0.003 min  
Lab File: CalLevel-4-250.D  
Acq: 28 Jan 2015 00:22

Tgt Ion	Resp	Lower	Upper
432	31904		
432	100		
290	29.6	22.9	34.3
327	54.6	19.0	28.6



#4  
Morphine-TMS  
Concen: 259.85 ng/mL  
RT: 8.971 min Scan# 84  
Delta R.T. -0.000 min  
Lab File: CalLevel-4-250.D  
Acq: 28 Jan 2015 00:22

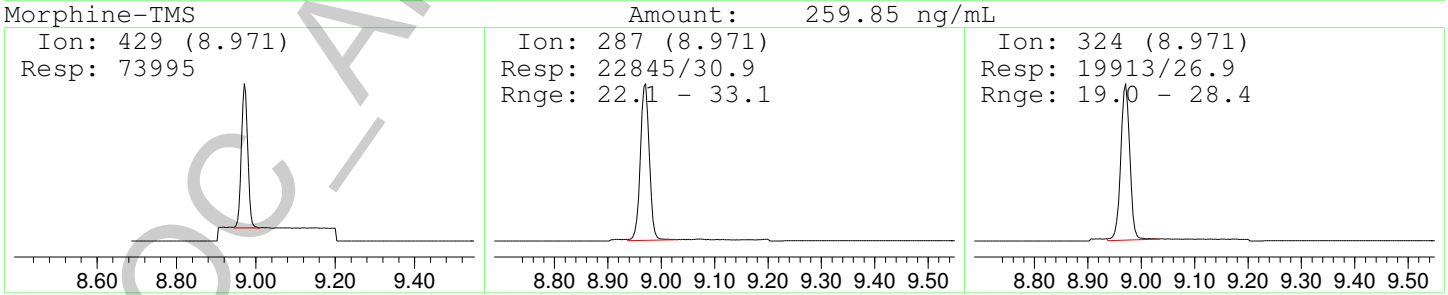
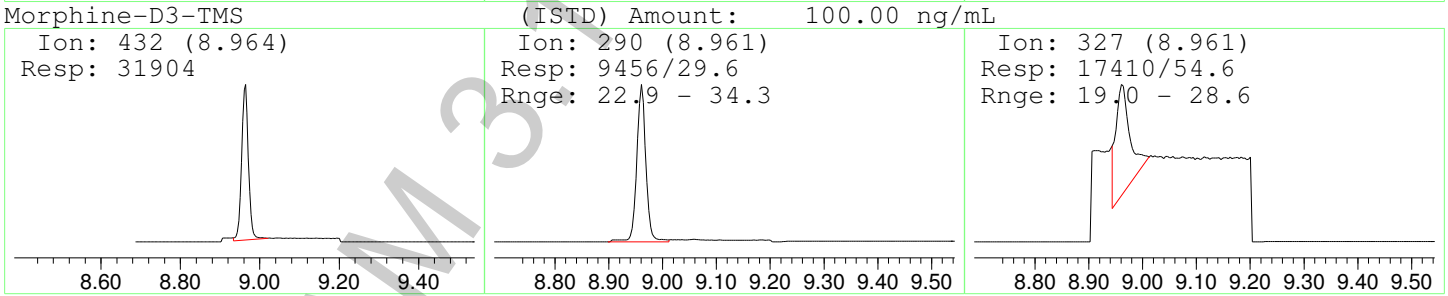
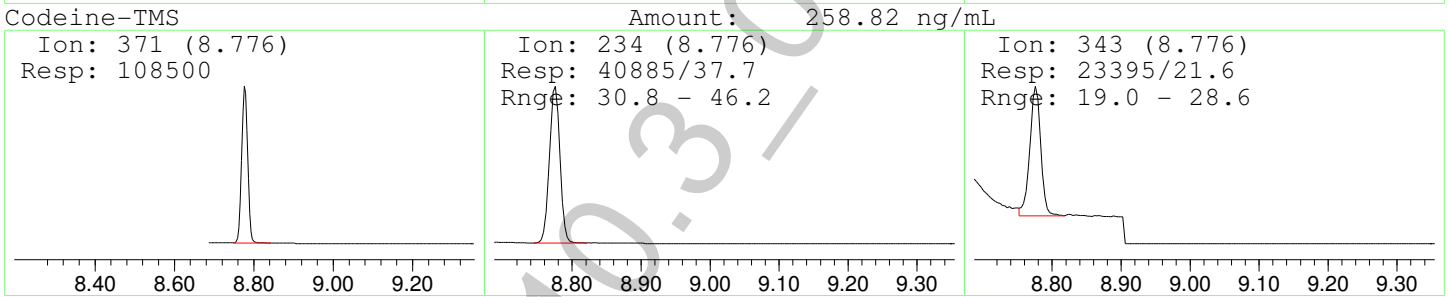
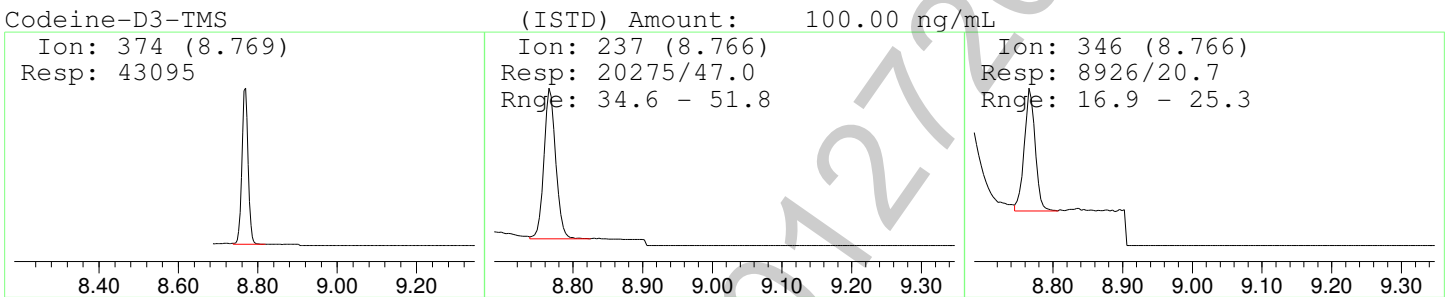
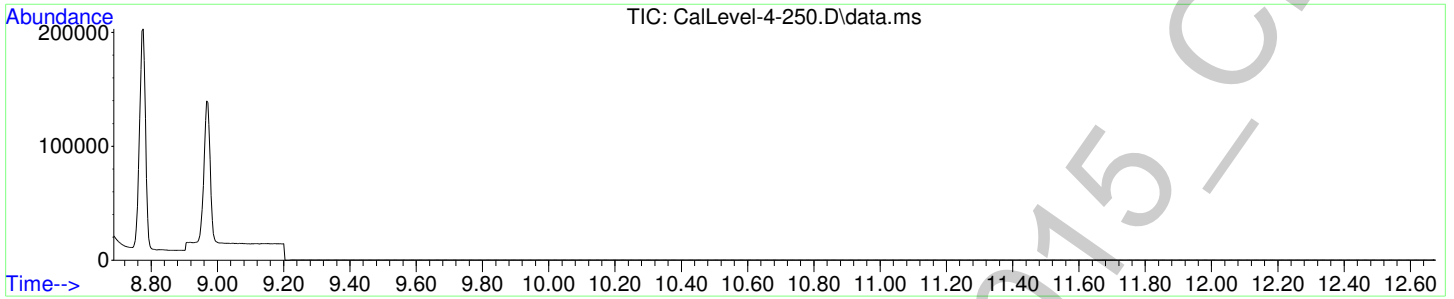
Tgt Ion	Resp	Lower	Upper
429	73995		
429	100		
287	30.9	22.1	33.1
324	26.9	19.0	28.4





2

Data Path : F:\Data\012715OP\  
 Data File : CalLevel-4-250.D  
 Acq On : 28 Jan 2015 00:22  
 Operator : Pocatello Laboratory  
 Sample : Calibrator Level 4: 250ng/mL  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1



g

Data Path : F:\Data\012715OP\  
 Data File : CalLevel-5-500.D  
 Acq On : 28 Jan 2015 00:40  
 Operator : Pocatello Laboratory  
 Sample : Calibrator Level 5: 500ng/mL  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 30 09:05:10 2015  
 Quant Method : F:\Methods\AM-3-10-3-D3.M  
 Quant Title : Analytical Method 3.10.3 - Codeine and Morphine  
 QLast Update : Fri Jan 30 08:41:21 2015  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Codeine-D3-TMS	8.766	374	44219	100.00	ng/mL	* # 0.00
3) Morphine-D3-TMS	8.961	432	33704	100.00	ng/mL	0.00
Target Compounds						
2) Codeine-TMS	8.776	371	216109	512.72	ng/mL	96
4) Morphine-TMS	8.971	429	154140	543.45	ng/mL	96

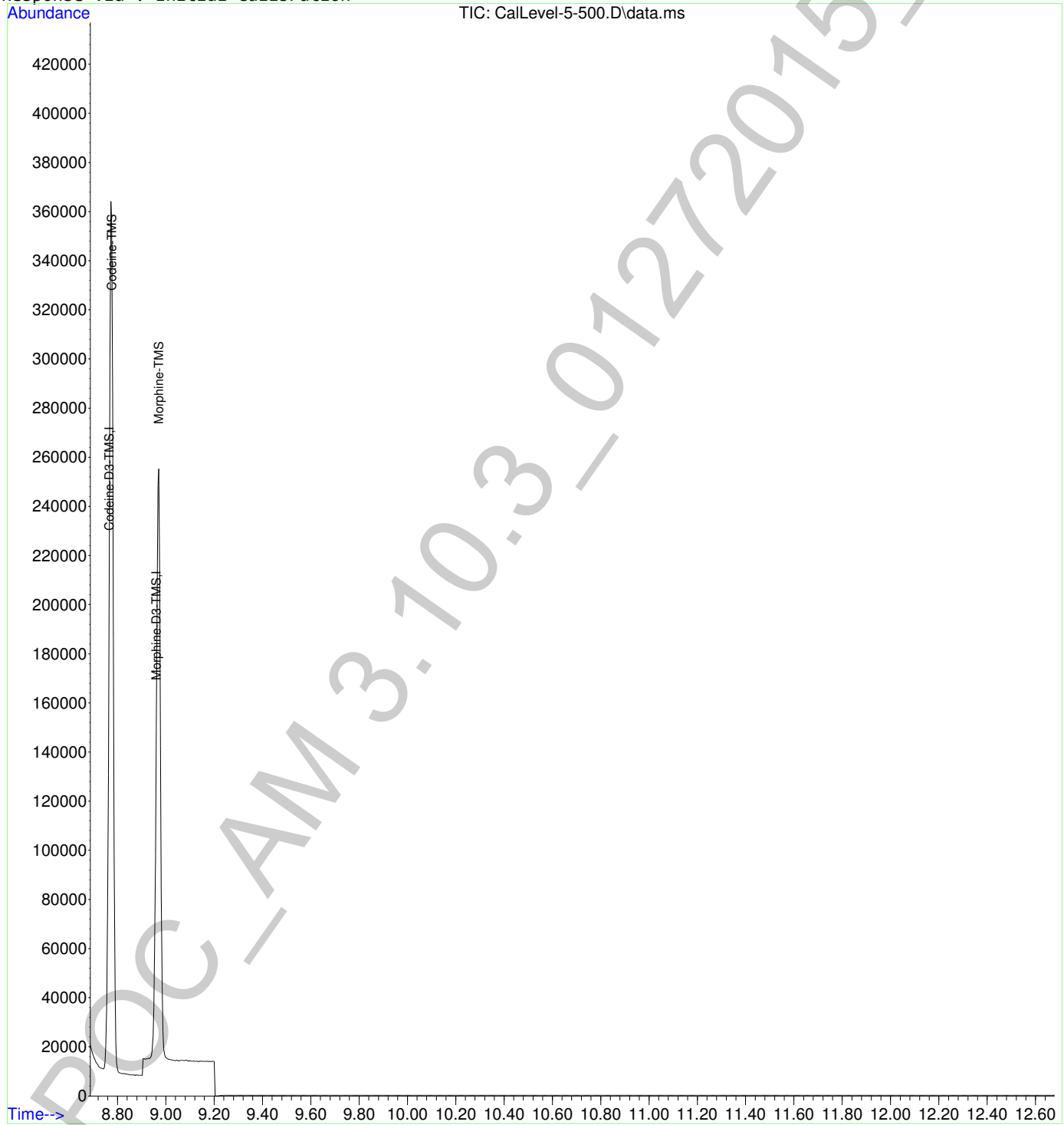
(#) = qualifier out of range (m) = manual integration (+) = signals summed

\*Qualifier ions out of range. Refer to manual integration.

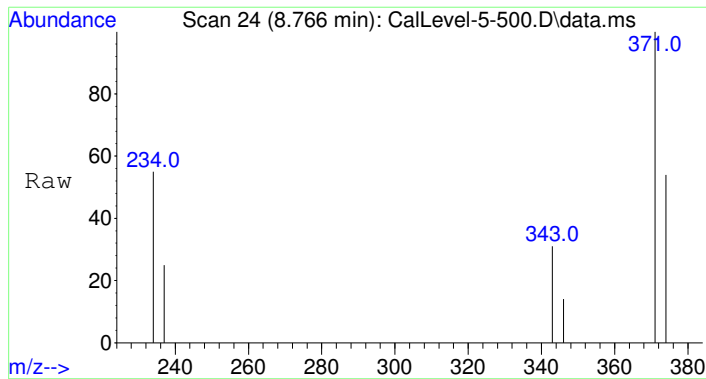
2

Data Path : F:\Data\0127150P\  
Data File : CalLevel-5-500.D  
Acq On : 28 Jan 2015 00:40  
Operator : Pocatello Laboratory  
Sample : Calibrator Level 5: 500ng/mL  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 30 09:05:10 2015  
Quant Method : F:\Methods\AM-3-10-3-D3.M  
Quant Title : Analytical Method 3.10.3 - Codeine and Morphine  
QLast Update : Fri Jan 30 08:41:21 2015  
Response via : Initial Calibration

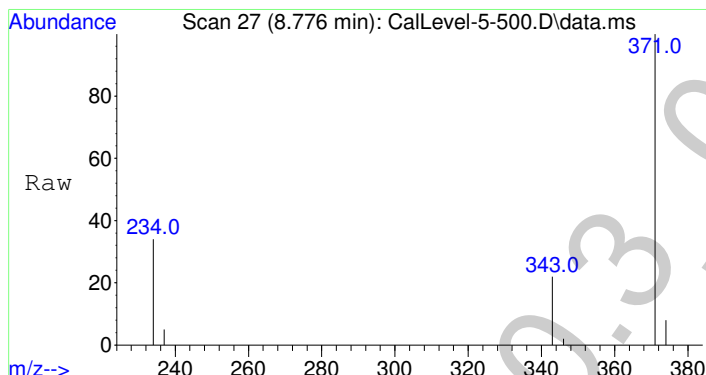
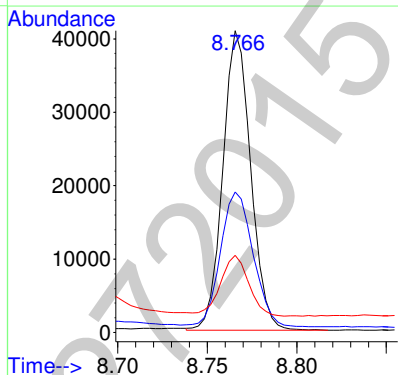
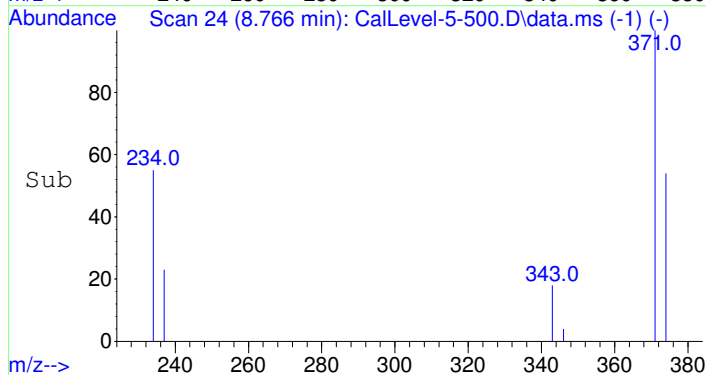


2



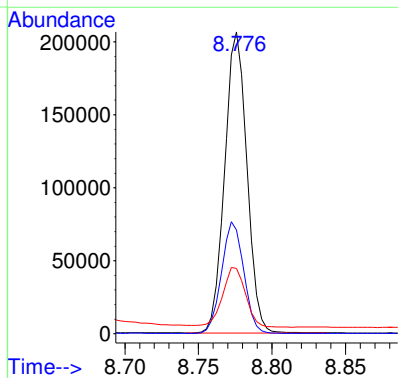
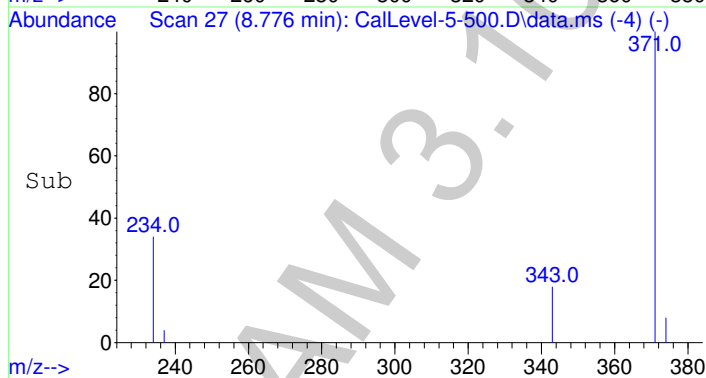
#1  
 Codeine-D3-TMS  
 Concen: 100.00 ng/mL  
 RT: 8.766 min Scan# 24  
 Delta R.T. -0.000 min  
 Lab File: CalLevel-5-500.D  
 Acq: 28 Jan 2015 00:40

Tgt Ion	Resp	Lower	Upper
374	44219		
374	100		
237	52.7	34.6	51.8#
346	20.3	16.9	25.3

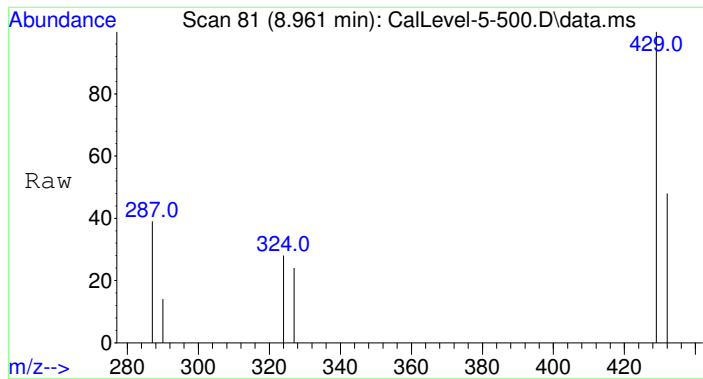


#2  
 Codeine-TMS  
 Concen: 512.72 ng/mL  
 RT: 8.776 min Scan# 27  
 Delta R.T. -0.000 min  
 Lab File: CalLevel-5-500.D  
 Acq: 28 Jan 2015 00:40

Tgt Ion	Resp	Lower	Upper
371	216109		
371	100		
234	37.3	30.8	46.2
343	20.6	19.0	28.6

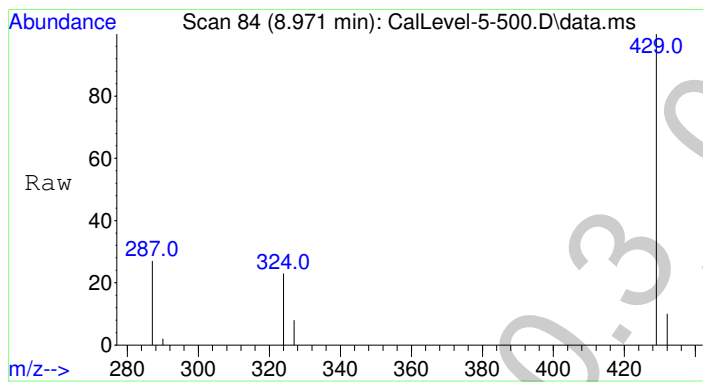
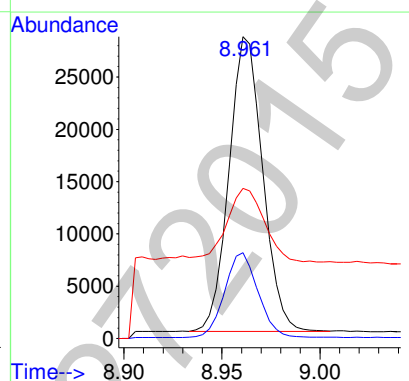
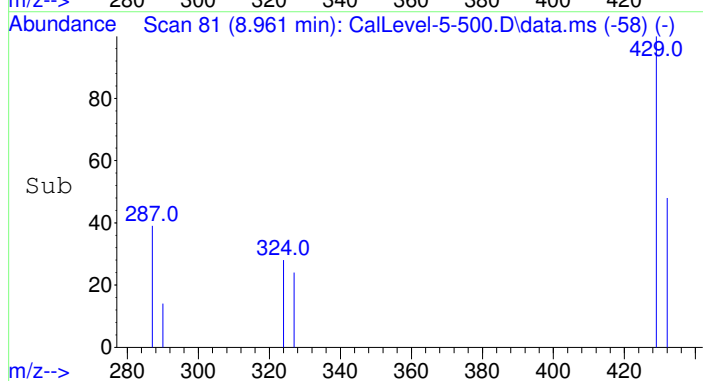


2



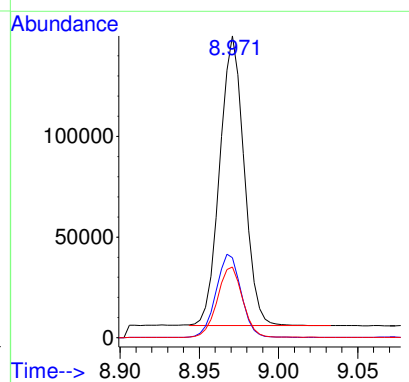
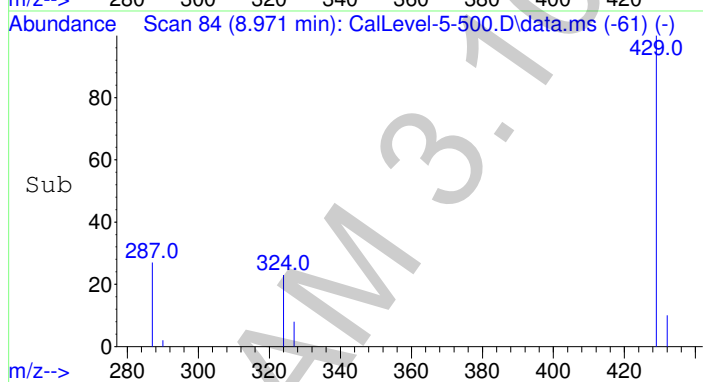
#3  
 Morphine-D3-TMS  
 Concen: 100.00 ng/mL  
 RT: 8.961 min Scan# 81  
 Delta R.T. -0.000 min  
 Lab File: CalLevel-5-500.D  
 Acq: 28 Jan 2015 00:40

Tgt Ion	Resp	Lower	Upper
432	33704		
432	100		
290	29.0	22.9	34.3
327	27.2	19.0	28.6



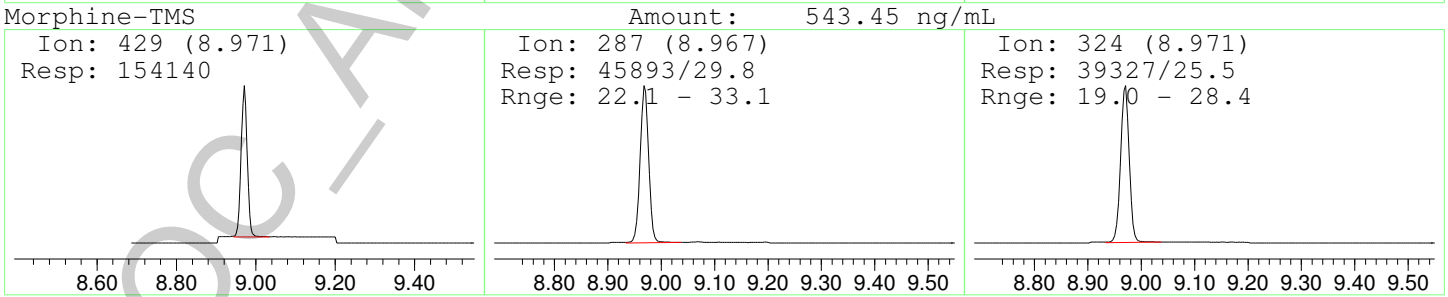
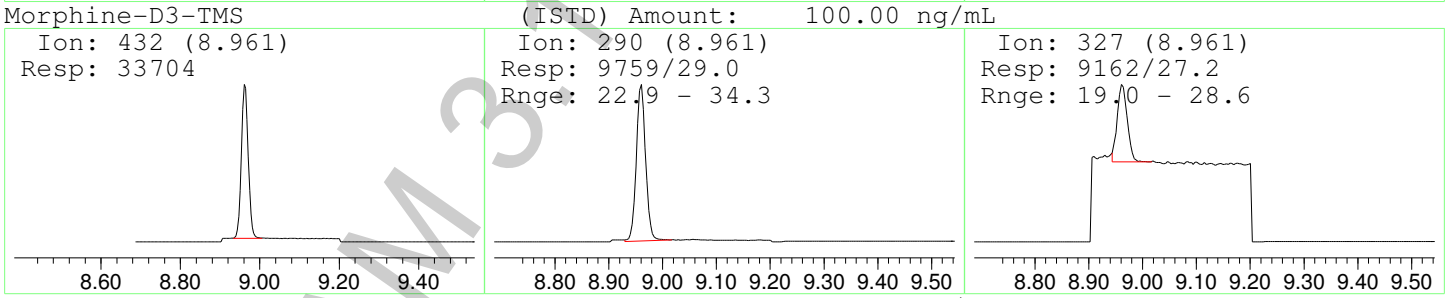
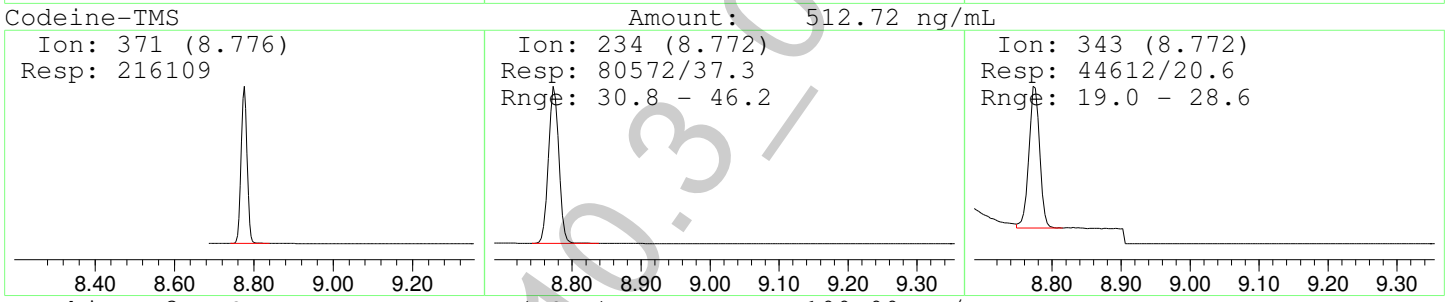
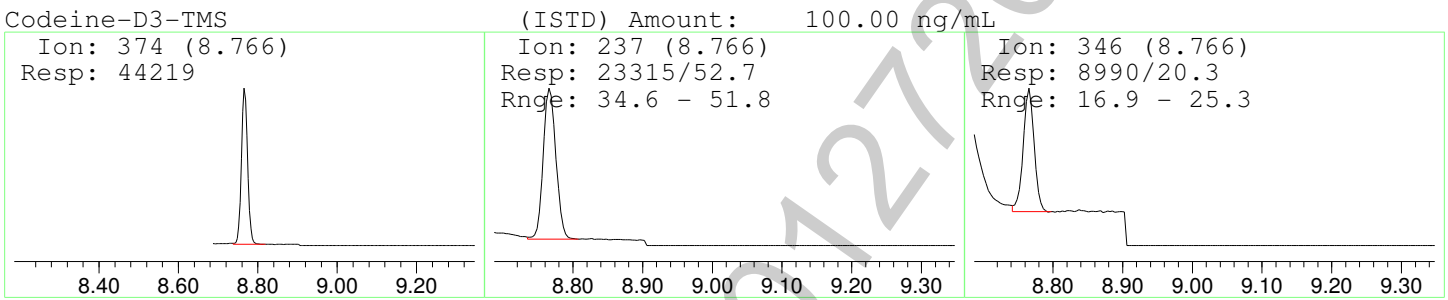
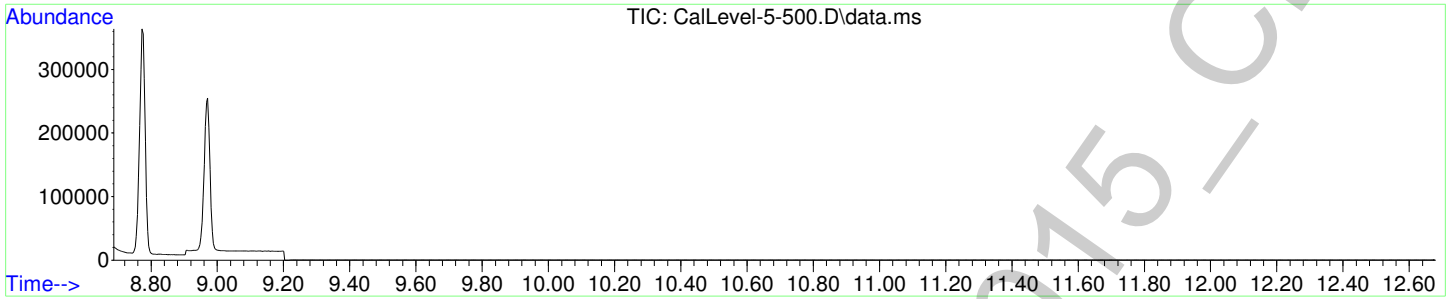
#4  
 Morphine-TMS  
 Concen: 543.45 ng/mL  
 RT: 8.971 min Scan# 84  
 Delta R.T. -0.000 min  
 Lab File: CalLevel-5-500.D  
 Acq: 28 Jan 2015 00:40

Tgt Ion	Resp	Lower	Upper
429	154140		
429	100		
287	29.8	22.1	33.1
324	25.5	19.0	28.4



6

Data Path : F:\Data\012715OP\  
 Data File : CalLevel-5-500.D  
 Acq On : 28 Jan 2015 00:40  
 Operator : Pocatello Laboratory  
 Sample : Calibrator Level 5: 500ng/mL  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1



Data Path : F:\Data\012715OP\  
 Data File : CalLevel-5-500.D  
 Acq On : 28 Jan 2015 00:40  
 Operator : Pocatello Laboratory  
 Sample : Calibrator Level 5: 500ng/mL  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 30 09:05:10 2015  
 Quant Method : F:\Methods\AM-3-10-3-D3.M  
 Quant Title : Analytical Method 3.10.3 - Codeine and Morphine  
 QLast Update : Fri Jan 30 08:41:21 2015  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Codeine-D3-TMS	8.766	374	45263m*	100.00	ng/mL	0.00
3) Morphine-D3-TMS	8.961	432	33704	100.00	ng/mL	0.00
Target Compounds						
2) Codeine-TMS	8.776	371	216109	500.64	ng/mL	96
4) Morphine-TMS	8.971	429	154140	543.45	ng/mL	96

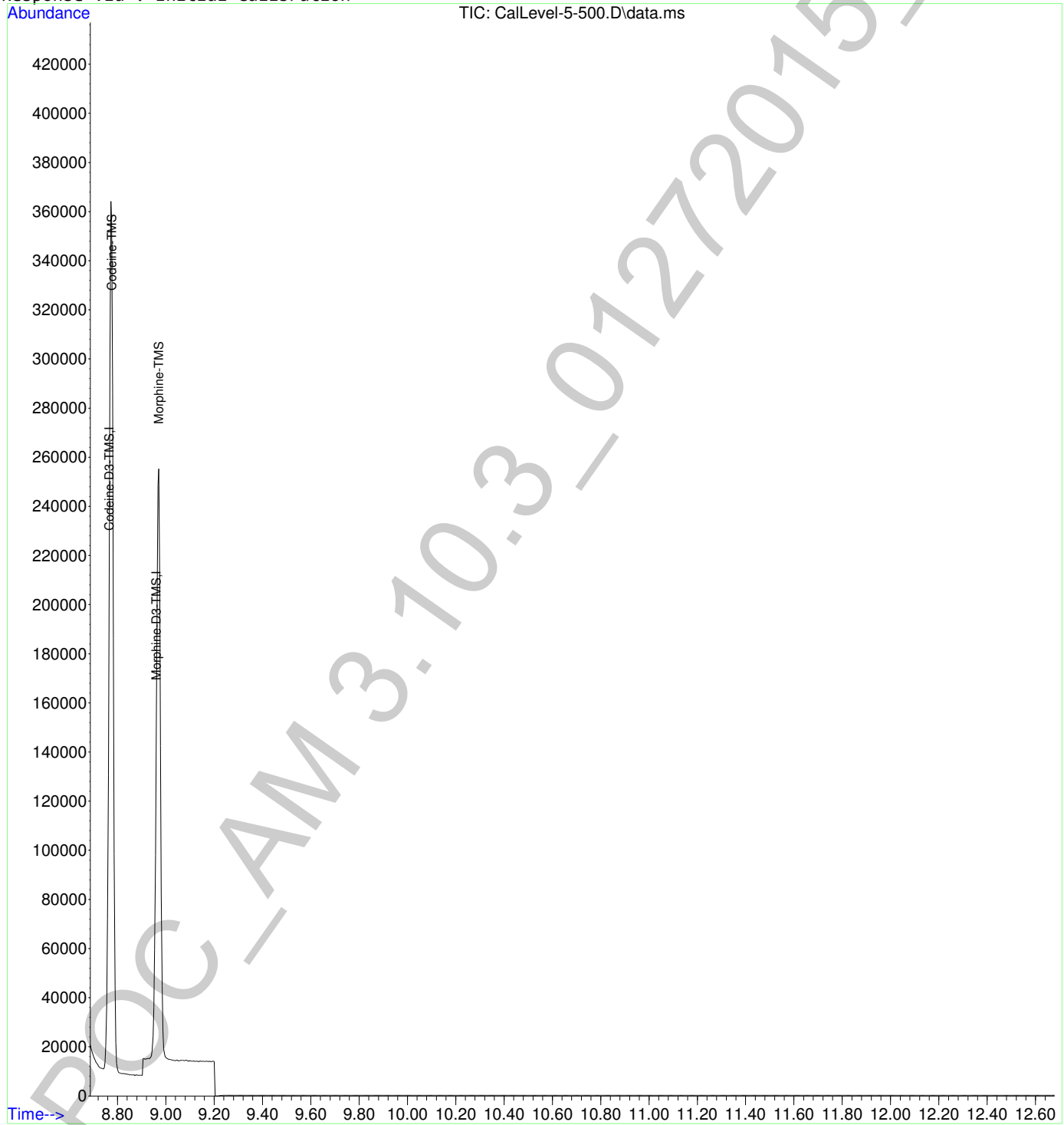
(#) = qualifier out of range (m) = manual integration (+) = signals summed

\*Manual integration successful.

2

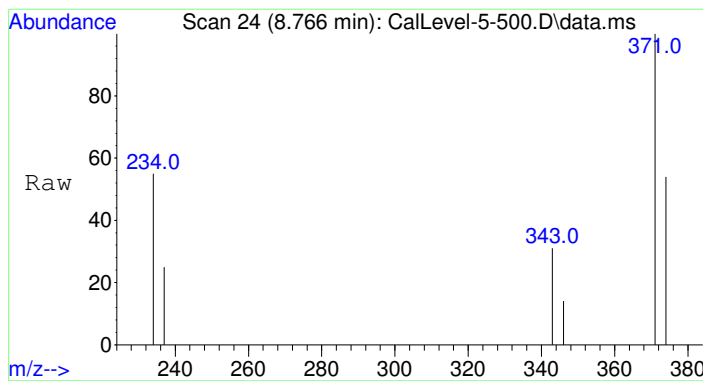
Data Path : F:\Data\0127150P\  
Data File : CalLevel-5-500.D  
Acq On : 28 Jan 2015 00:40  
Operator : Pocatello Laboratory  
Sample : Calibrator Level 5: 500ng/mL  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 30 09:05:10 2015  
Quant Method : F:\Methods\AM-3-10-3-D3.M  
Quant Title : Analytical Method 3.10.3 - Codeine and Morphine  
QLast Update : Fri Jan 30 08:41:21 2015  
Response via : Initial Calibration



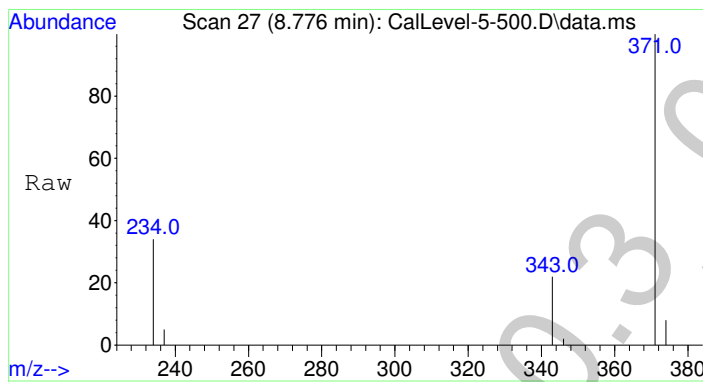
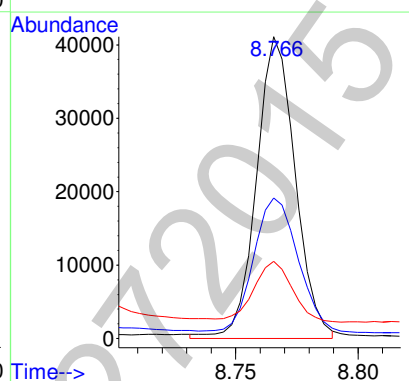
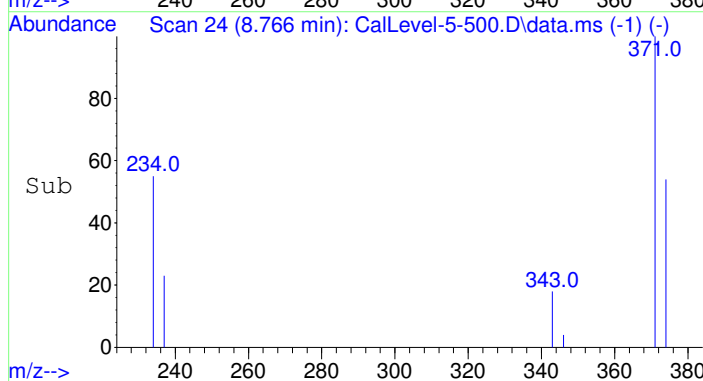


2



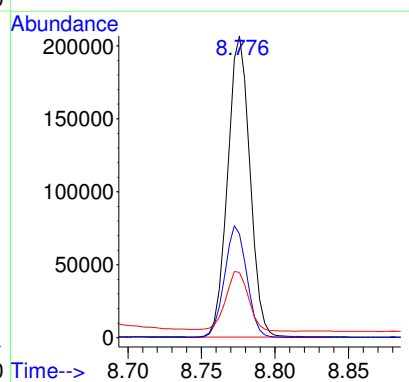
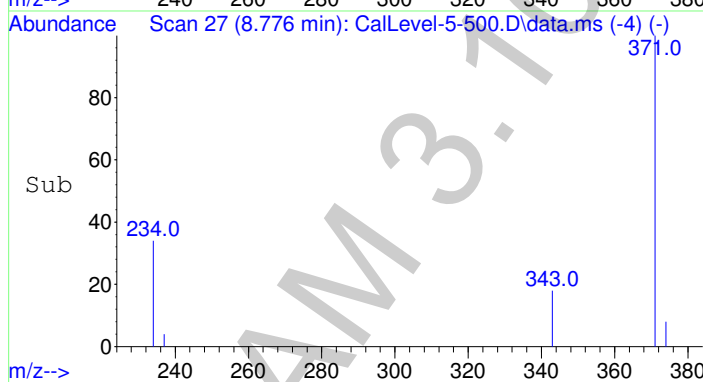
#1  
 Codeine-D3-TMS  
 Concen: 100.00 ng/mL m  
 RT: 8.766 min Scan# 24  
 Delta R.T. -0.000 min  
 Lab File: CalLevel-5-500.D  
 Acq: 28 Jan 2015 00:40

Tgt Ion	Resp	Lower	Upper
374	45263		
374	100		
237	51.5	34.6	51.8
346	19.9	16.9	25.3

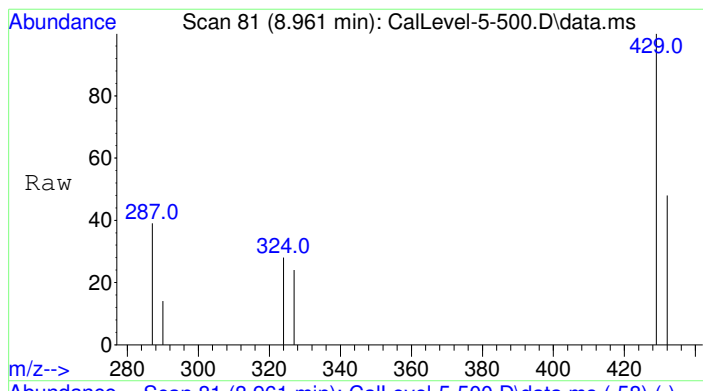


#2  
 Codeine-TMS  
 Concen: 500.64 ng/mL  
 RT: 8.776 min Scan# 27  
 Delta R.T. -0.000 min  
 Lab File: CalLevel-5-500.D  
 Acq: 28 Jan 2015 00:40

Tgt Ion	Resp	Lower	Upper
371	216109		
371	100		
234	37.3	30.8	46.2
343	20.6	19.0	28.6

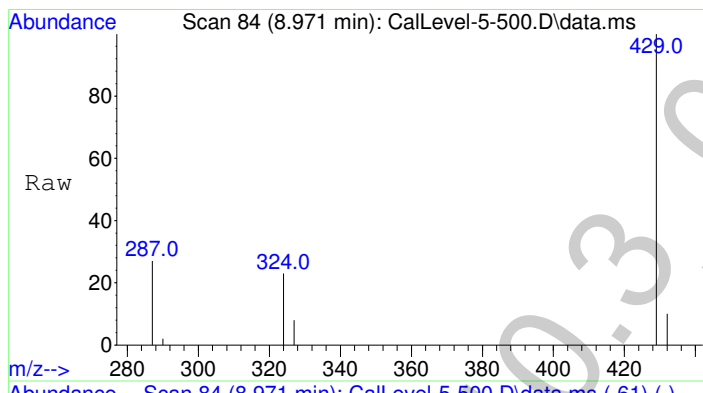
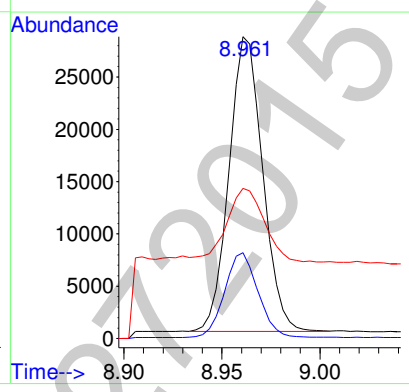
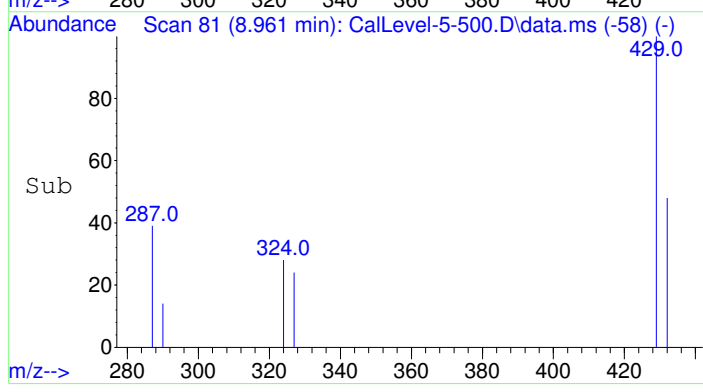


2



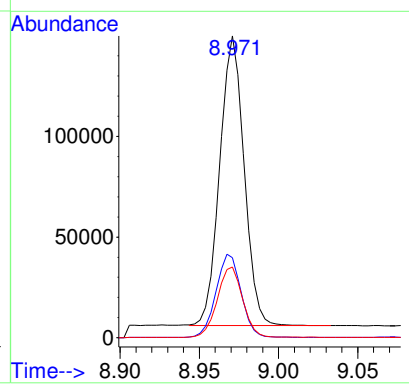
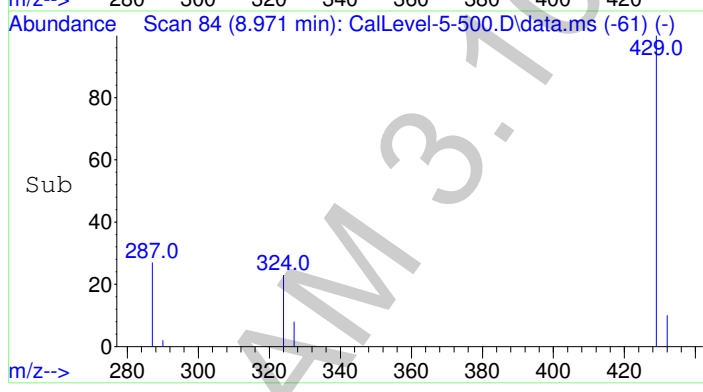
#3  
Morphine-D3-TMS  
Concen: 100.00 ng/mL  
RT: 8.961 min Scan# 81  
Delta R.T. -0.000 min  
Lab File: CalLevel-5-500.D  
Acq: 28 Jan 2015 00:40

Tgt Ion	Resp	Lower	Upper
432	33704		
432	100		
290	29.0	22.9	34.3
327	27.2	19.0	28.6

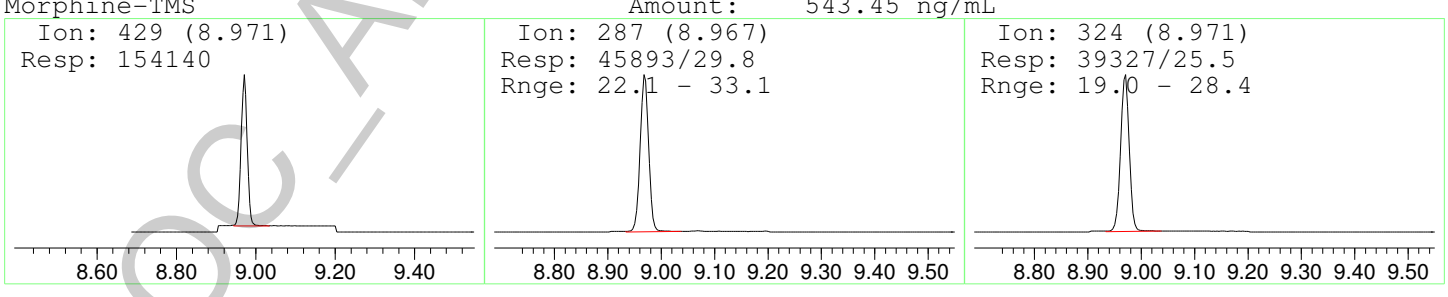
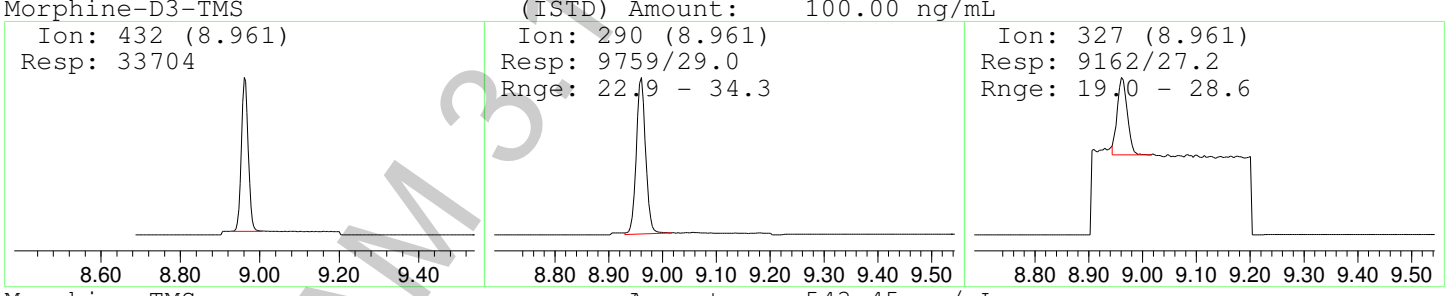
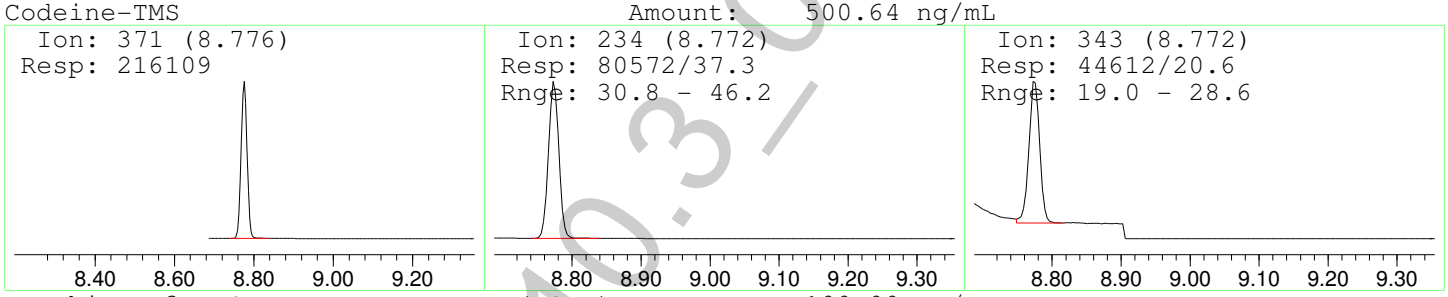
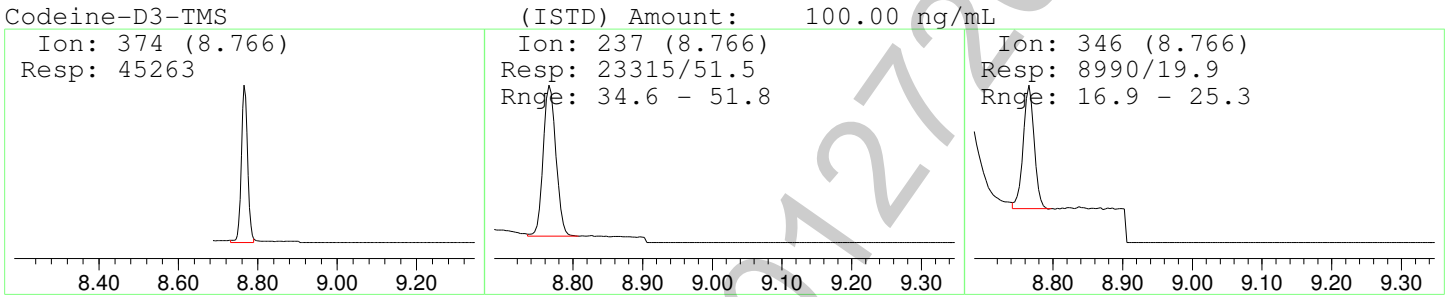
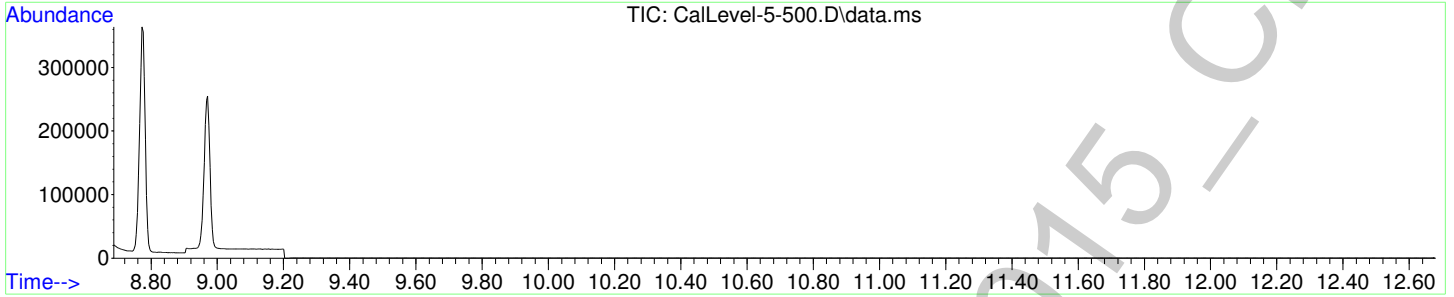


#4  
Morphine-TMS  
Concen: 543.45 ng/mL  
RT: 8.971 min Scan# 84  
Delta R.T. -0.000 min  
Lab File: CalLevel-5-500.D  
Acq: 28 Jan 2015 00:40

Tgt Ion	Resp	Lower	Upper
429	154140		
429	100		
287	29.8	22.1	33.1
324	25.5	19.0	28.4



Data Path : F:\Data\012715OP\  
 Data File : CalLevel-5-500.D  
 Acq On : 28 Jan 2015 00:40  
 Operator : Pocatello Laboratory  
 Sample : Calibrator Level 5: 500ng/mL  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1



Data Path : F:\Data\012715OP\  
 Data File : CalLevel-6-1000.D  
 Acq On : 28 Jan 2015 00:59  
 Operator : Pocatello Laboratory  
 Sample : Calibrator Level 6: 1000ng/mL  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 30 09:07:42 2015  
 Quant Method : F:\Methods\AM-3-10-3-D3.M  
 Quant Title : Analytical Method 3.10.3 - Codeine and Morphine  
 QLast Update : Fri Jan 30 08:41:21 2015  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Codeine-D3-TMS	8.766	374	50497	100.00	ng/mL	*# 0.00
3) Morphine-D3-TMS	8.961	432	43930	100.00	ng/mL	*# 0.00
Target Compounds						
2) Codeine-TMS	8.776	371	472546	991.76	ng/mL	Qvalue 95
4) Morphine-TMS	8.971	429	351860	975.80	ng/mL	97

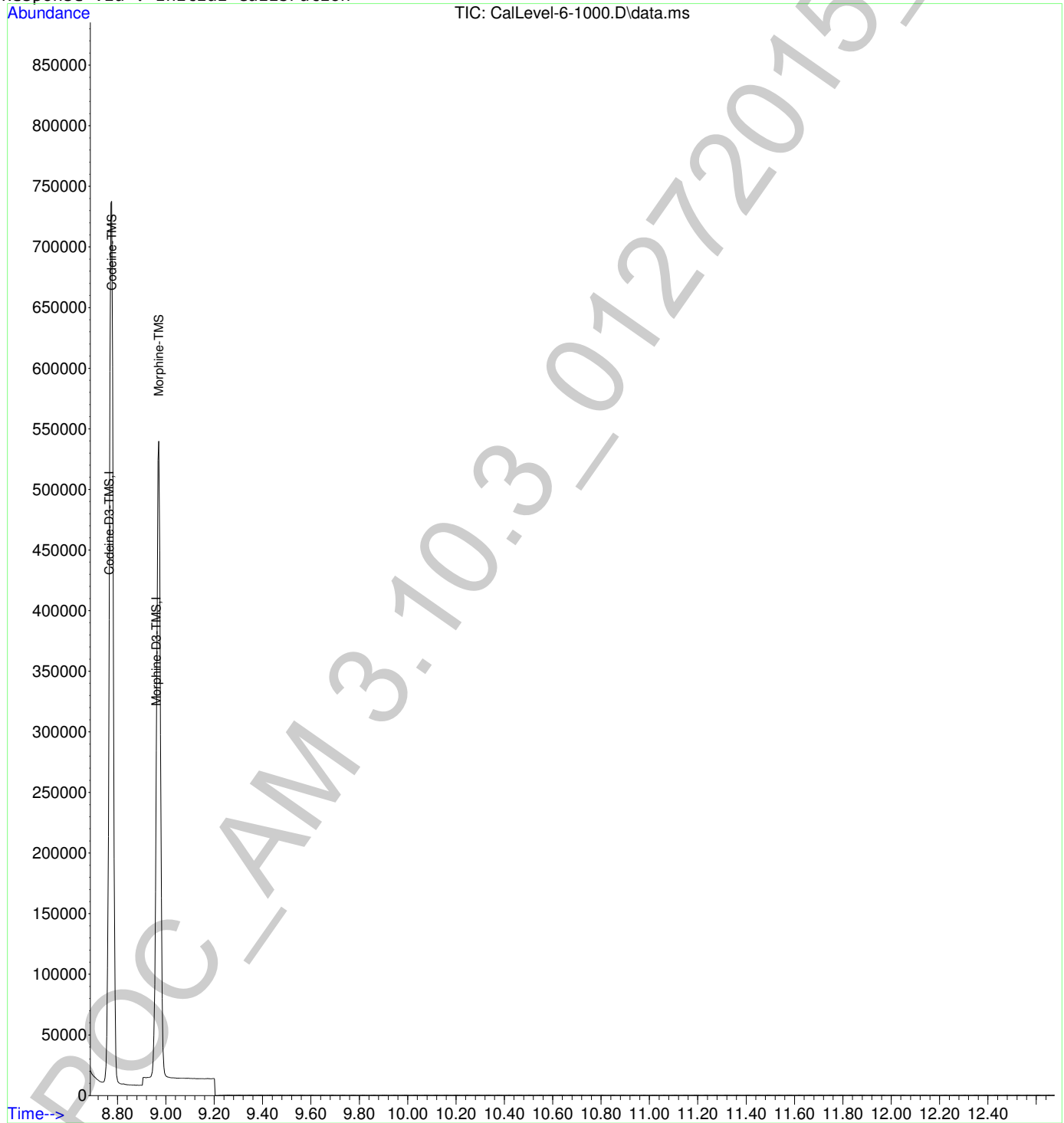
(#) = qualifier out of range (m) = manual integration (+) = signals summed

\*Qualifier ions out of range. Unable to manually integrate. Samples >100ng/mL must be confirmed in full scan mode.

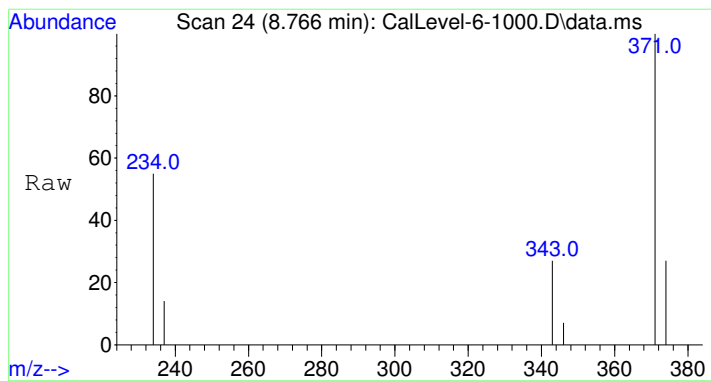
g

Data Path : F:\Data\0127150P\  
Data File : CalLevel-6-1000.D  
Acq On : 28 Jan 2015 00:59  
Operator : Pocatello Laboratory  
Sample : Calibrator Level 6: 1000ng/mL  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 30 09:07:42 2015  
Quant Method : F:\Methods\AM-3-10-3-D3.M  
Quant Title : Analytical Method 3.10.3 - Codeine and Morphine  
QLast Update : Fri Jan 30 08:41:21 2015  
Response via : Initial Calibration

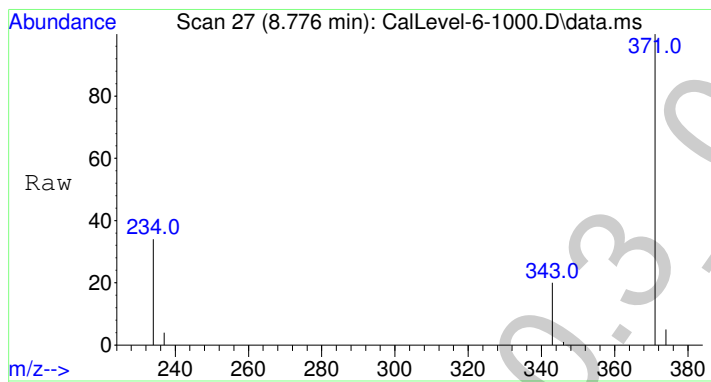
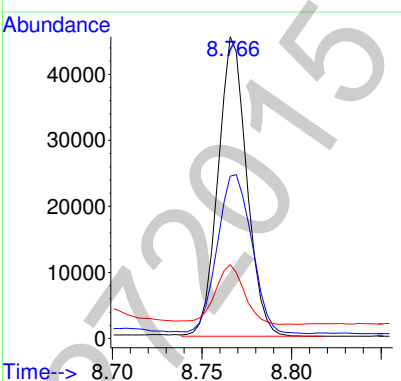
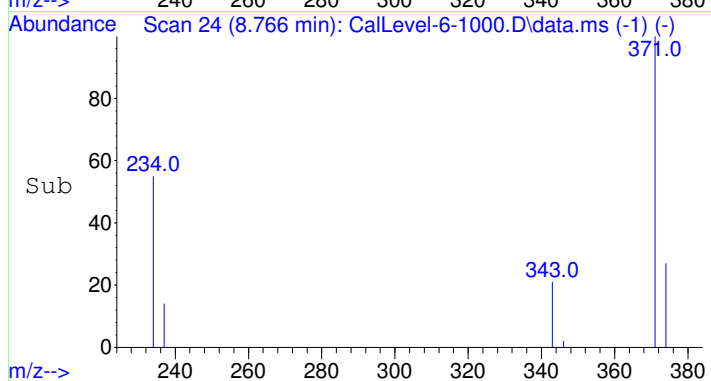


2



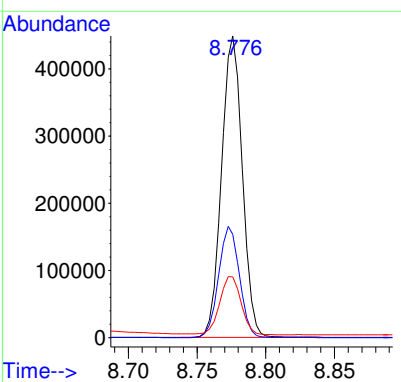
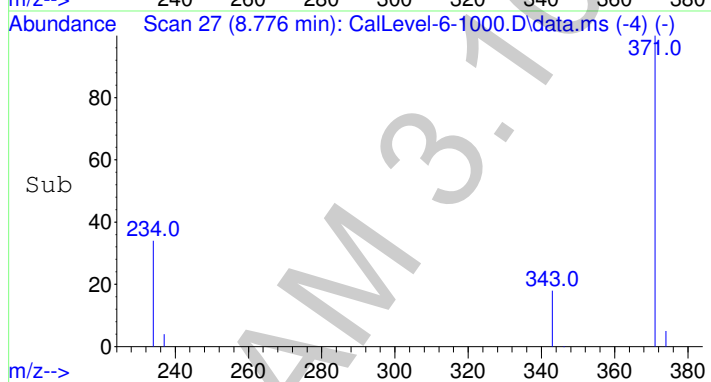
#1  
Codeine-D3-TMS  
Concen: 100.00 ng/mL  
RT: 8.766 min Scan# 24  
Delta R.T. -0.000 min  
Lab File: CalLevel-6-1000.D  
Acq: 28 Jan 2015 00:59

Tgt Ion	Resp	Lower	Upper
374	50497		
374	100		
237	63.8	34.6	51.8#
346	20.2	16.9	25.3

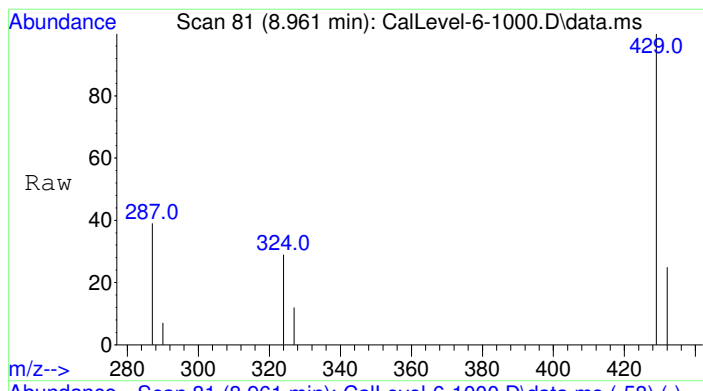


#2  
Codeine-TMS  
Concen: 991.76 ng/mL  
RT: 8.776 min Scan# 27  
Delta R.T. 0.000 min  
Lab File: CalLevel-6-1000.D  
Acq: 28 Jan 2015 00:59

Tgt Ion	Resp	Lower	Upper
371	472546		
371	100		
234	36.9	30.8	46.2
343	19.9	19.0	28.6

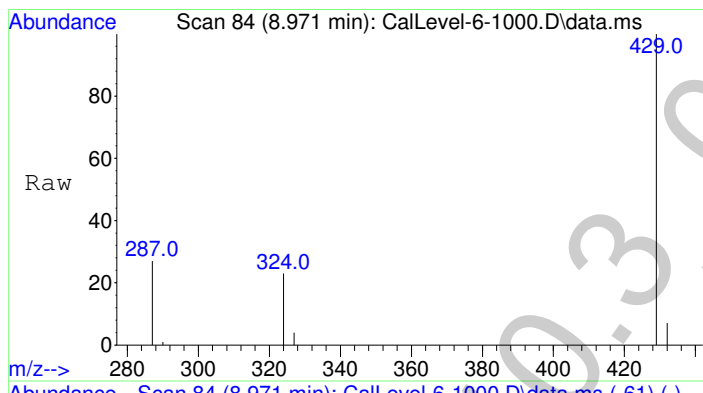
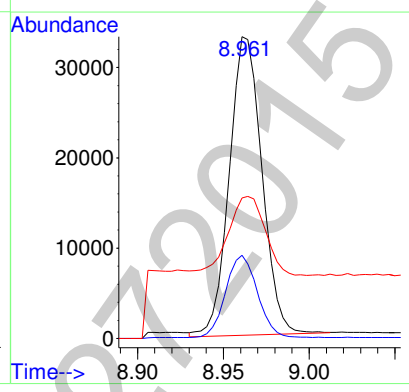
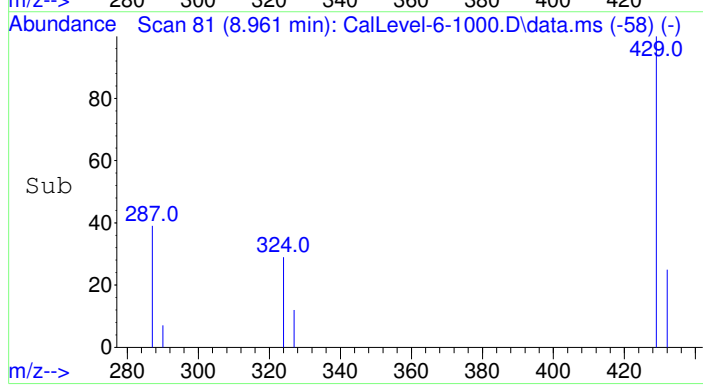


2



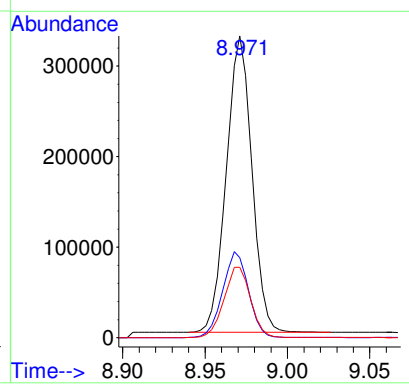
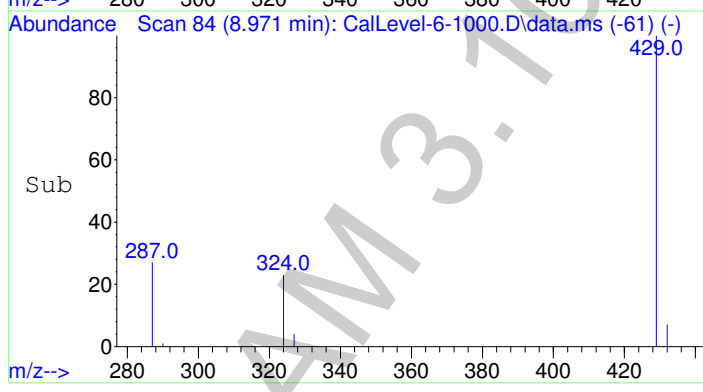
#3  
Morphine-D3-TMS  
Concen: 100.00 ng/mL  
RT: 8.961 min Scan# 81  
Delta R.T. -0.000 min  
Lab File: CalLevel-6-1000.D  
Acq: 28 Jan 2015 00:59

Tgt Ion	Ratio	Resp	Lower	Upper
432	100	43930		
290	27.2	22.9	34.3	
327	28.6	19.0	28.6	#



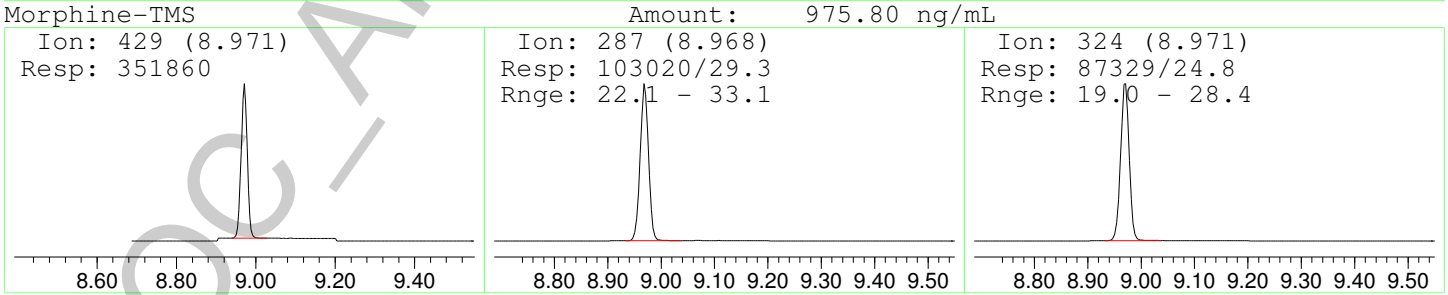
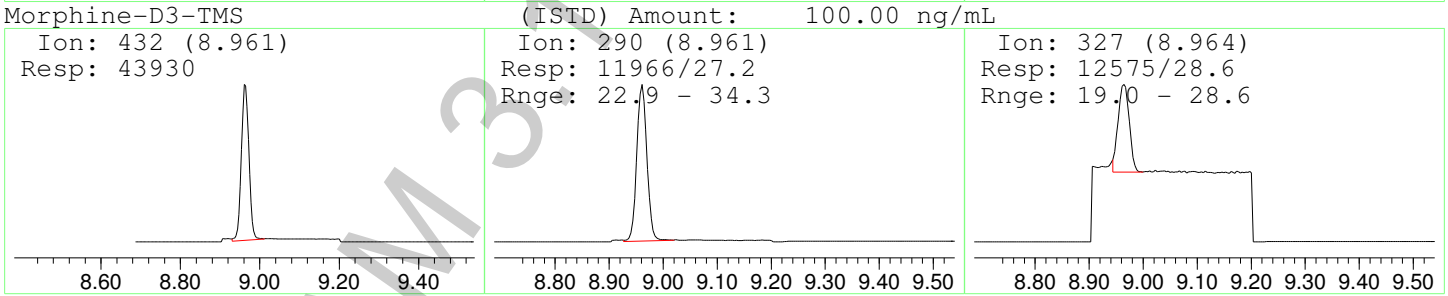
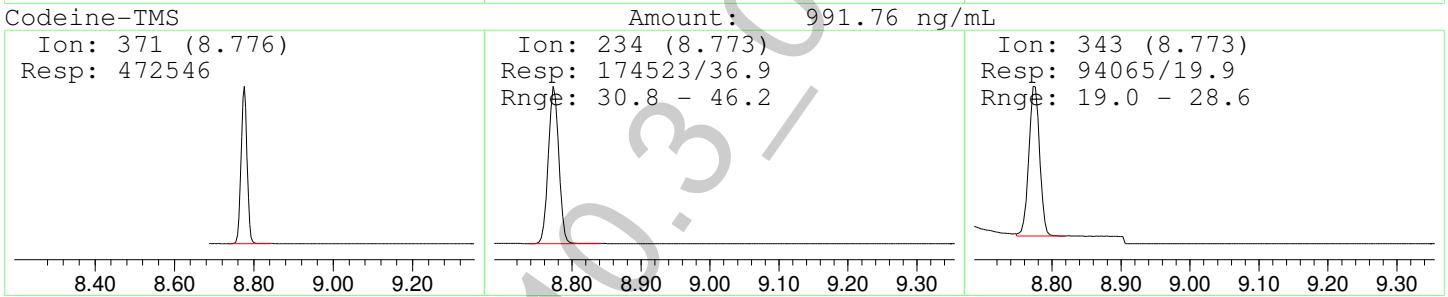
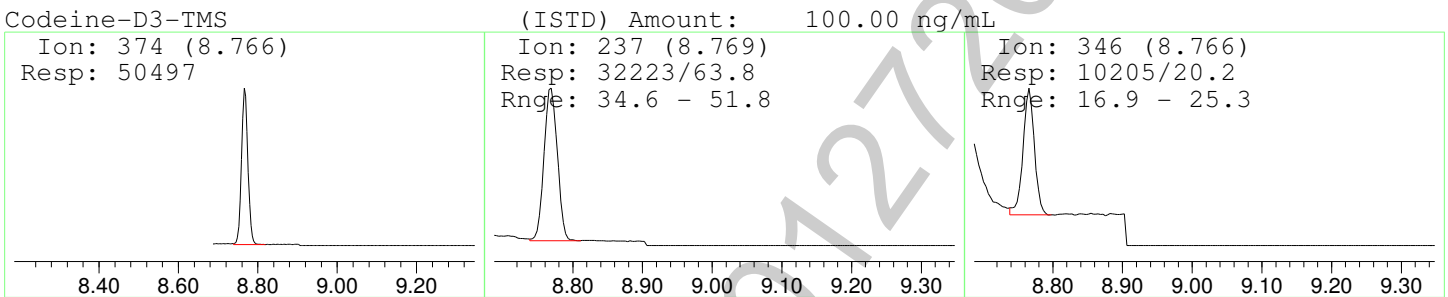
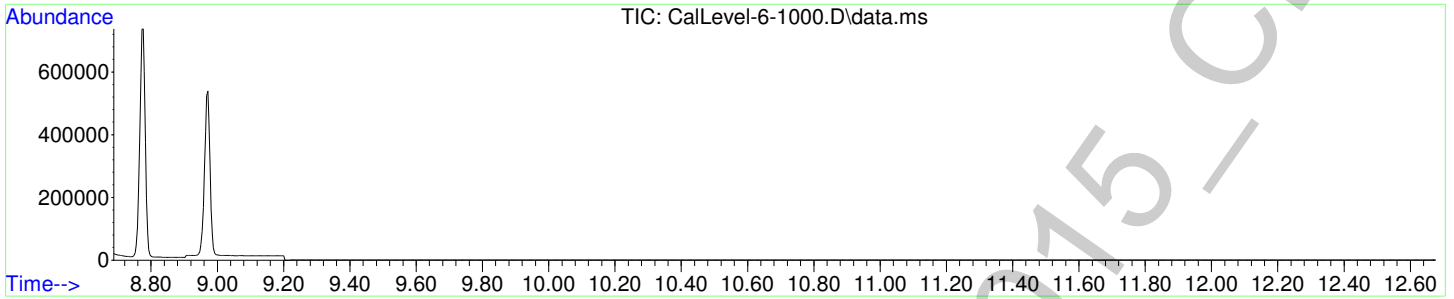
#4  
Morphine-TMS  
Concen: 975.80 ng/mL  
RT: 8.971 min Scan# 84  
Delta R.T. 0.000 min  
Lab File: CalLevel-6-1000.D  
Acq: 28 Jan 2015 00:59

Tgt Ion	Ratio	Resp	Lower	Upper
429	100	351860		
287	29.3	22.1	33.1	
324	24.8	19.0	28.4	



2

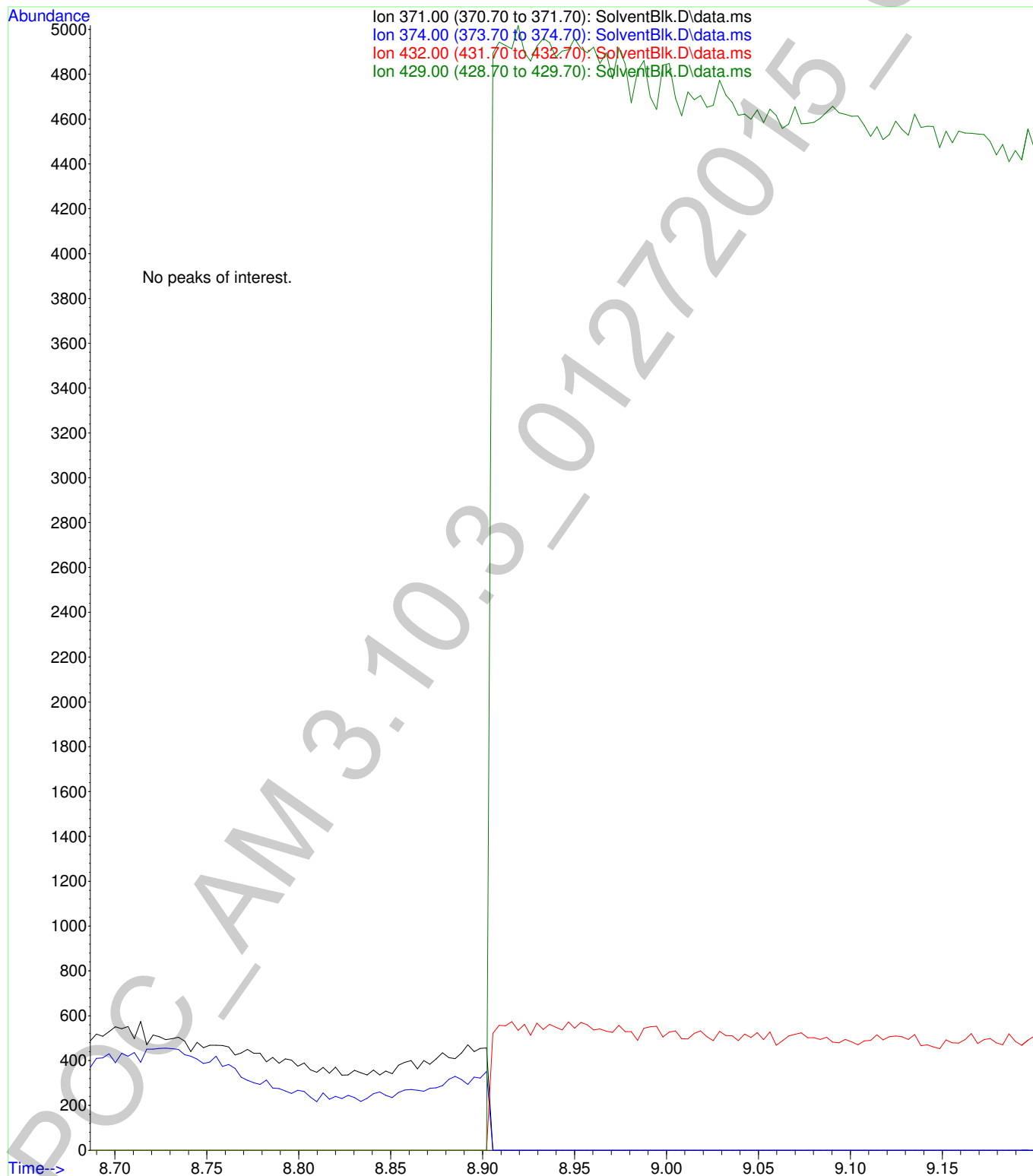
Data Path : F:\Data\012715OP\  
 Data File : CalLevel-6-1000.D  
 Acq On : 28 Jan 2015 00:59  
 Operator : Pocatello Laboratory  
 Sample : Calibrator Level 6: 1000ng/mL  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1





6

File :F:\Data\012715OP\SolventBlk.D  
Operator : Pocatello Laboratory  
Acquired : 28 Jan 2015 1:17 using AcqMethod AM-3-10-3-3.M  
Instrument : Probie  
Sample Name: Solvent Blank  
Misc Info : CHCl3  
Vial Number: 98



2

Data Path : F:\Data\012715OP\  
 Data File : PC-75-1.D  
 Acq On : 28 Jan 2015 1:36  
 Operator : Pocatello Laboratory  
 Sample : 75ng/mL Positive Control  
 Misc : Analytical Method 3.10.3  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 30 09:12:42 2015  
 Quant Method : F:\Methods\AM-3-10-3-D3.M  
 Quant Title : Analytical Method 3.10.3 - Codeine and Morphine  
 QLast Update : Fri Jan 30 08:41:21 2015  
 Response via : Initial Calibration

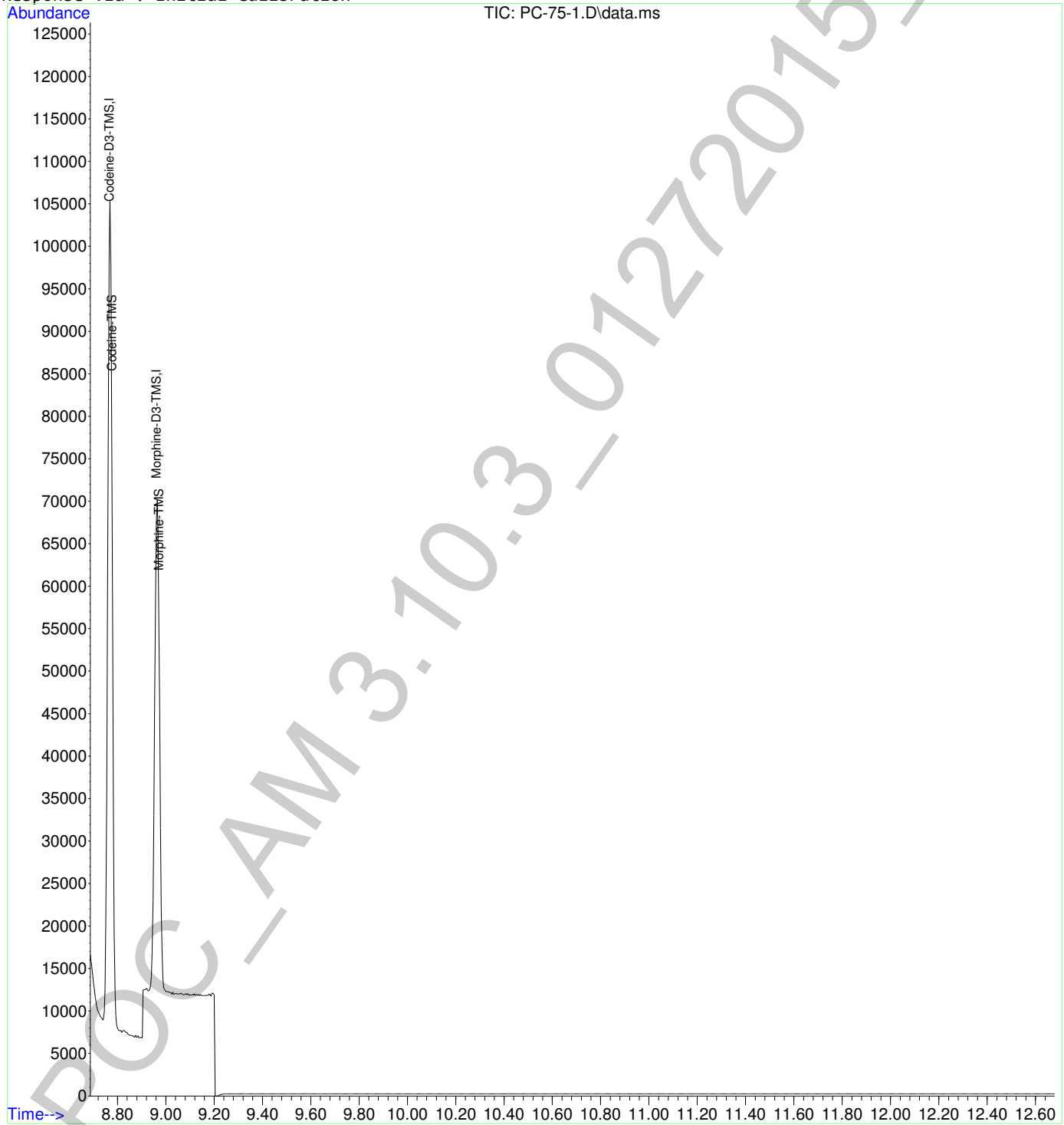
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Codeine-D3-TMS	8.766	374	42529	100.00	ng/mL	0.00
3) Morphine-D3-TMS	8.961	432	29840	100.00	ng/mL * #	0.00
Target Compounds						
2) Codeine-TMS	8.776	371	36522	81.06	ng/mL	99
4) Morphine-TMS	8.971	429	30425	96.32	ng/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

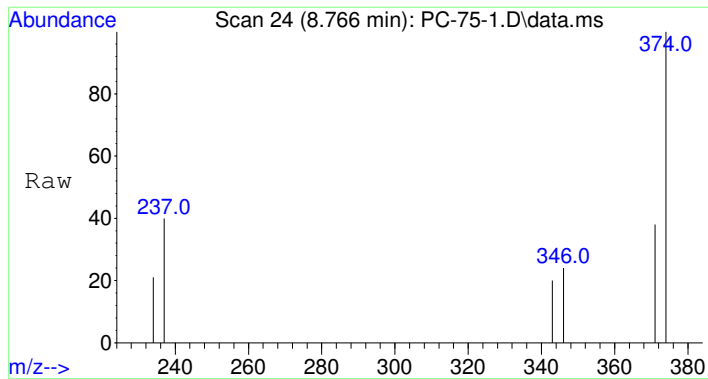
\*Unable to manually integrate. Samples are to be confirmed in full scan mode.

Data Path : F:\Data\0127150P\  
Data File : PC-75-1.D  
Acq On : 28 Jan 2015 1:36  
Operator : Pocatello Laboratory  
Sample : 75ng/mL Positive Control  
Misc : Analytical Method 3.10.3  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 30 09:12:42 2015  
Quant Method : F:\Methods\AM-3-10-3-D3.M  
Quant Title : Analytical Method 3.10.3 - Codeine and Morphine  
QLast Update : Fri Jan 30 08:41:21 2015  
Response via : Initial Calibration

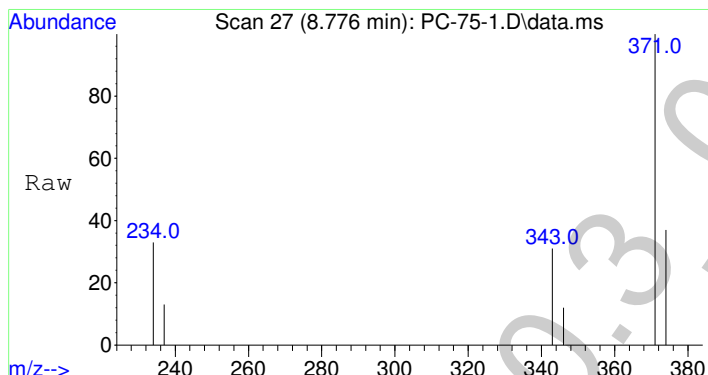
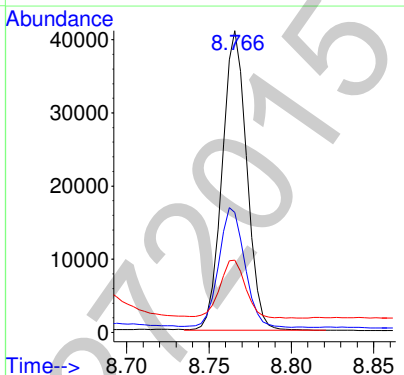
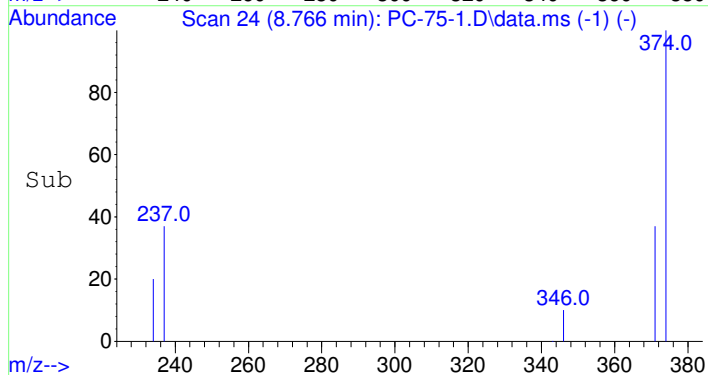


2



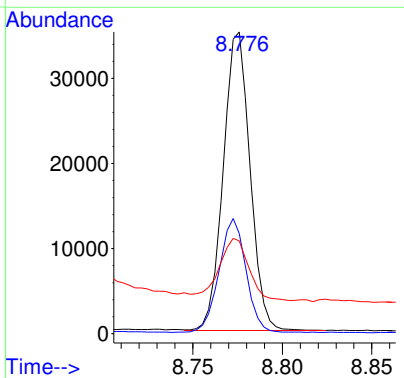
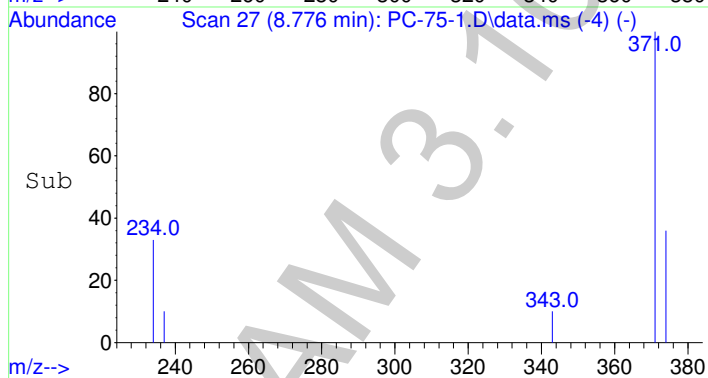
#1  
 Codeine-D3-TMS  
 Concen: 100.00 ng/mL  
 RT: 8.766 min Scan# 24  
 Delta R.T. -0.000 min  
 Lab File: PC-75-1.D  
 Acq: 28 Jan 2015 1:36

Tgt Ion	Resp	Lower	Upper
374	42529		
374	100		
237	41.9	34.6	51.8
346	20.4	16.9	25.3

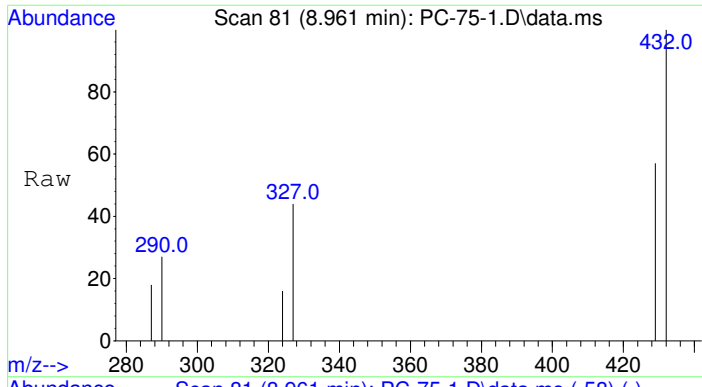


#2  
 Codeine-TMS  
 Concen: 81.06 ng/mL  
 RT: 8.776 min Scan# 27  
 Delta R.T. -0.000 min  
 Lab File: PC-75-1.D  
 Acq: 28 Jan 2015 1:36

Tgt Ion	Resp	Lower	Upper
371	36522		
371	100		
234	38.3	30.8	46.2
343	23.2	19.0	28.6

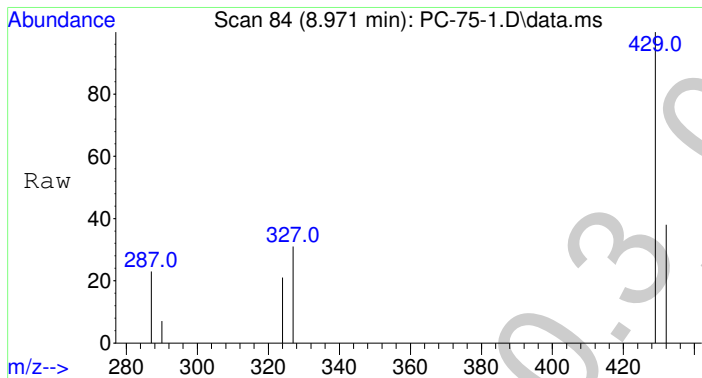
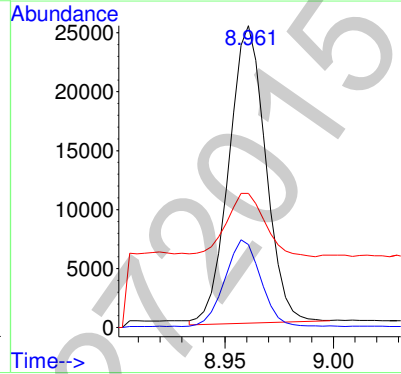
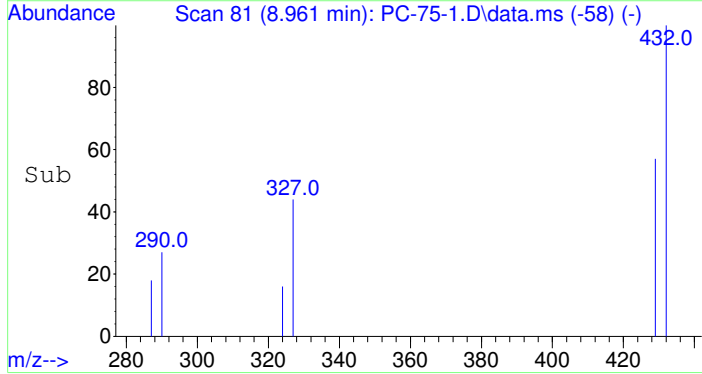


2



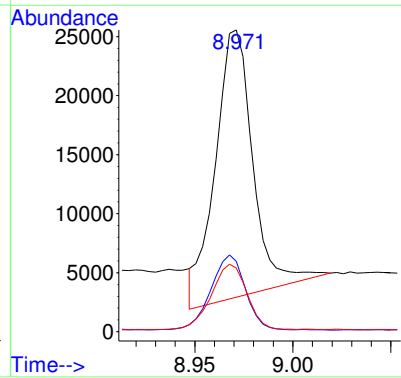
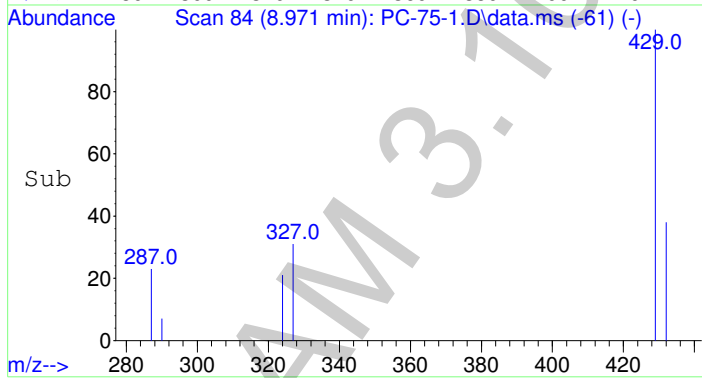
#3  
 Morphine-D3-TMS  
 Concen: 100.00 ng/mL  
 RT: 8.961 min Scan# 81  
 Delta R.T. -0.000 min  
 Lab File: PC-75-1.D  
 Acq: 28 Jan 2015 1:36

Tgt Ion	Resp	Lower	Upper
432	100		
290	28.4	22.9	34.3
327	39.2	19.0	28.6



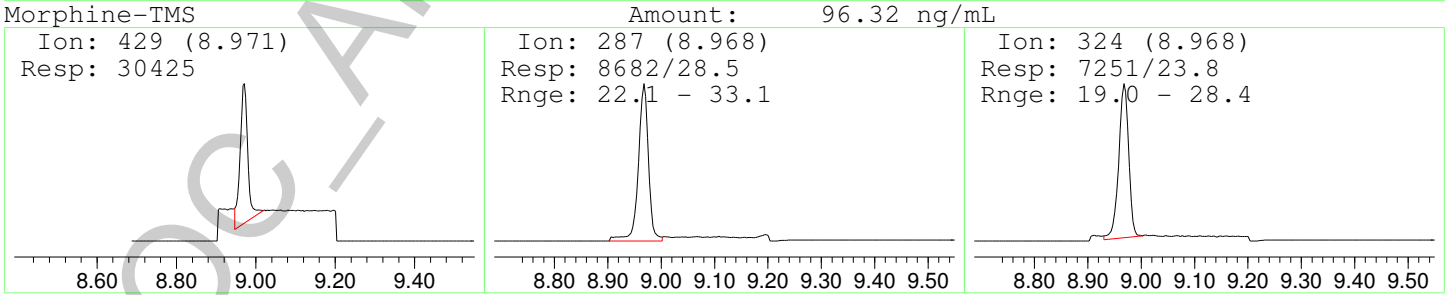
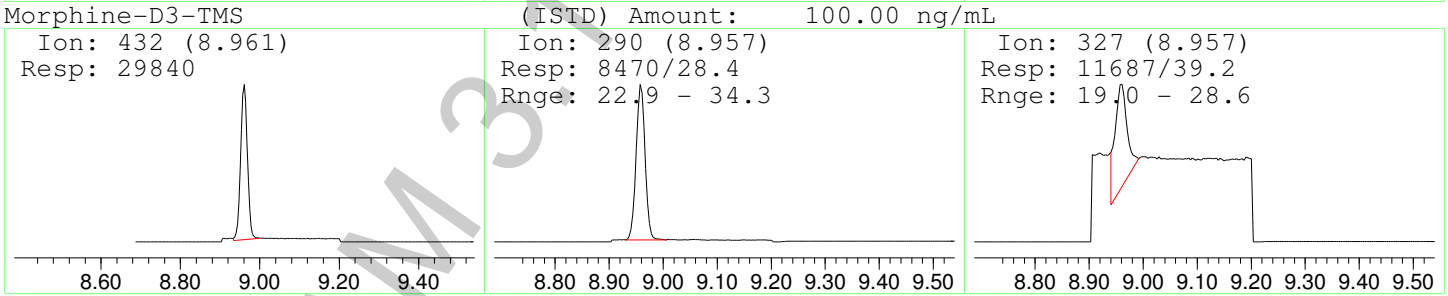
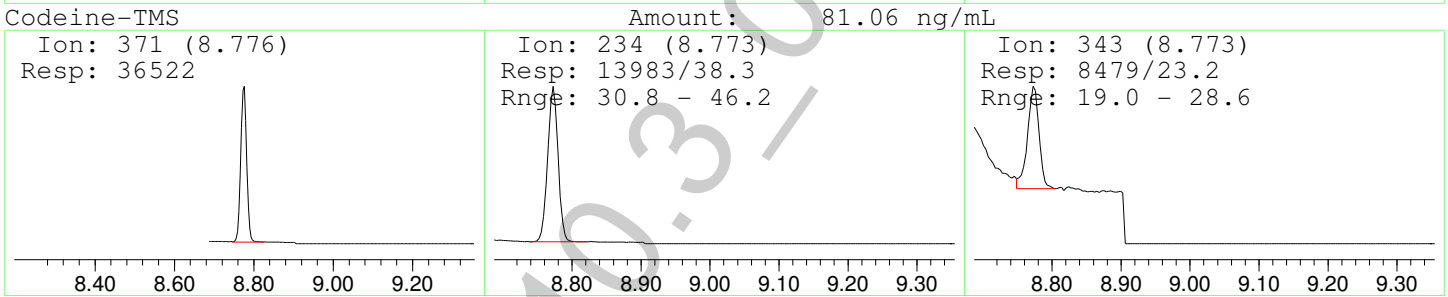
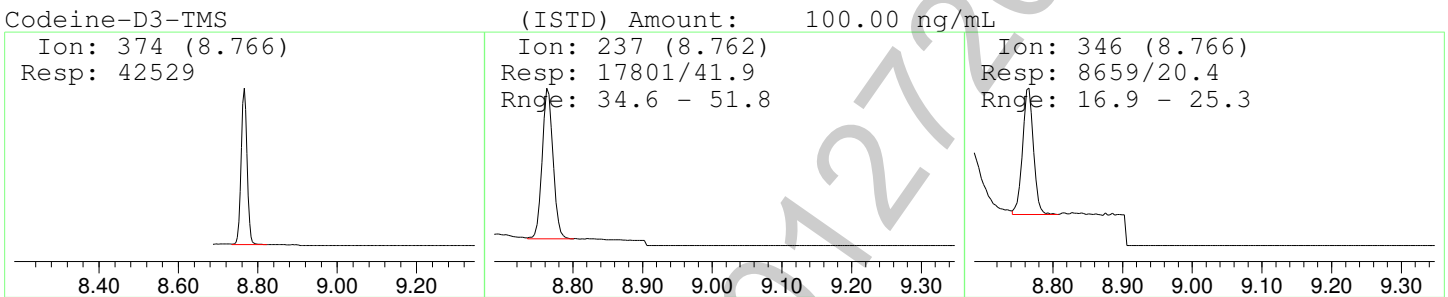
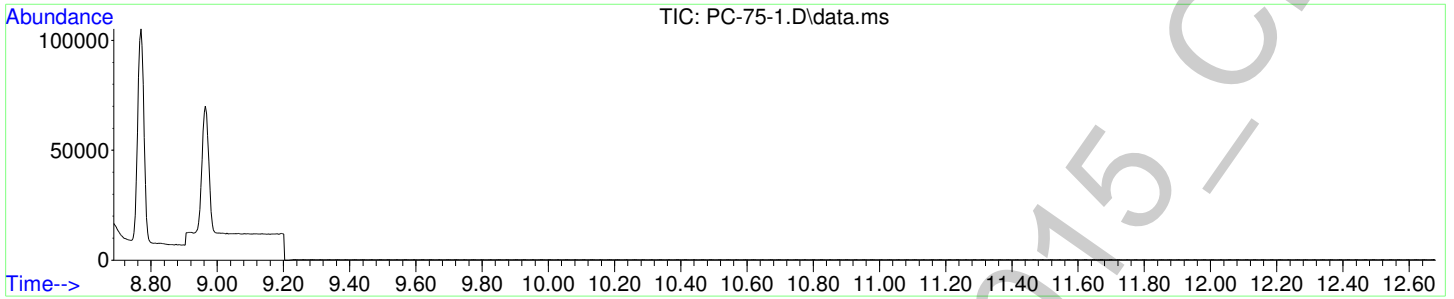
#4  
 Morphine-TMS  
 Concen: 96.32 ng/mL  
 RT: 8.971 min Scan# 84  
 Delta R.T. 0.000 min  
 Lab File: PC-75-1.D  
 Acq: 28 Jan 2015 1:36

Tgt Ion	Resp	Lower	Upper
429	100		
287	28.5	22.1	33.1
324	23.8	19.0	28.4



2

Data Path : F:\Data\012715OP\  
 Data File : PC-75-1.D  
 Acq On : 28 Jan 2015 1:36  
 Operator : Pocatello Laboratory  
 Sample : 75ng/mL Positive Control  
 Misc : Analytical Method 3.10.3  
 ALS Vial : 8 Sample Multiplier: 1



2

Data Path : F:\Data\012715OP\  
 Data File : PC-750-1.D  
 Acq On : 28 Jan 2015 1:55  
 Operator : Pocatello Laboratory  
 Sample : 750ng/mL Positive Control  
 Misc : Analytical Method 3.10.3  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 30 09:18:47 2015  
 Quant Method : F:\Methods\AM-3-10-3-D3.M  
 Quant Title : Analytical Method 3.10.3 - Codeine and Morphine  
 QLast Update : Fri Jan 30 08:41:21 2015  
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Codeine-D3-TMS	8.766	374	49451	100.00	ng/mL	* # 0.00
3) Morphine-D3-TMS	8.961	432	41252	100.00	ng/mL	* # 0.00
Target Compounds						
2) Codeine-TMS	8.776	371	381819	816.38	ng/mL	96
4) Morphine-TMS	8.971	429	275792	809.21	ng/mL	98

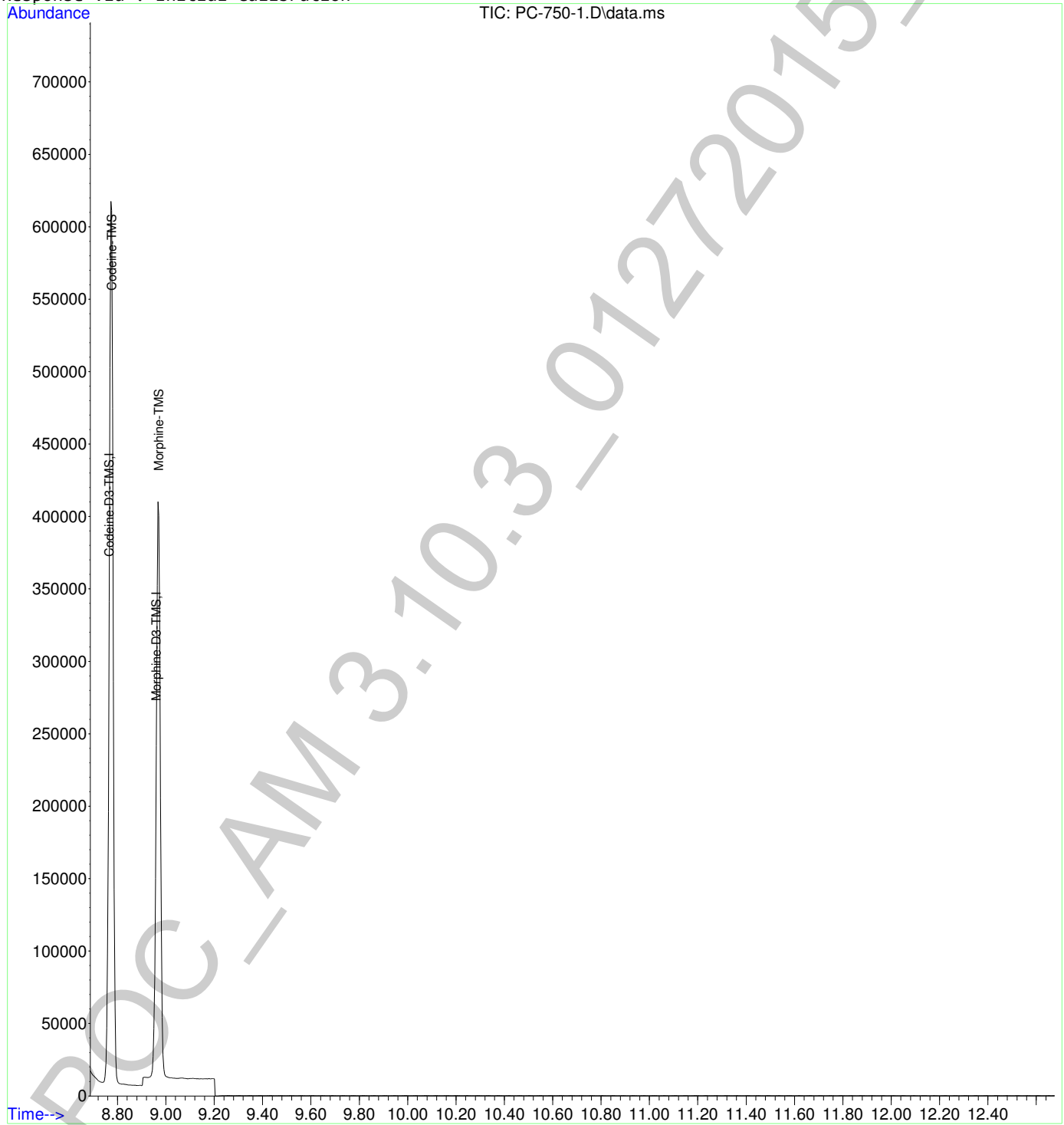
(#) = qualifier out of range (m) = manual integration (+) = signals summed

\*Unable to manually integrate. Refer to full scan data.

2

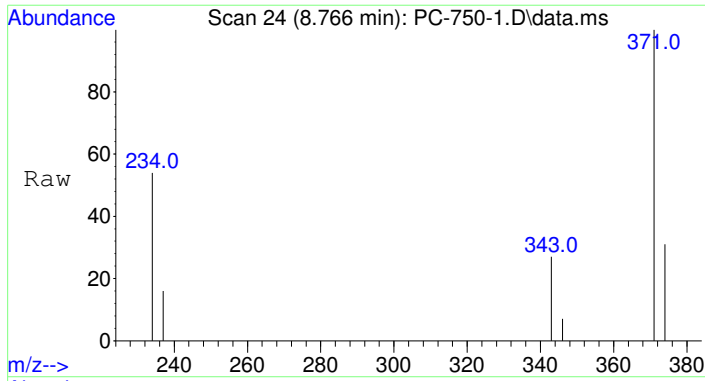
Data Path : F:\Data\0127150P\  
Data File : PC-750-1.D  
Acq On : 28 Jan 2015 1:55  
Operator : Pocatello Laboratory  
Sample : 750ng/mL Positive Control  
Misc : Analytical Method 3.10.3  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 30 09:18:47 2015  
Quant Method : F:\Methods\AM-3-10-3-D3.M  
Quant Title : Analytical Method 3.10.3 - Codeine and Morphine  
QLast Update : Fri Jan 30 08:41:21 2015  
Response via : Initial Calibration



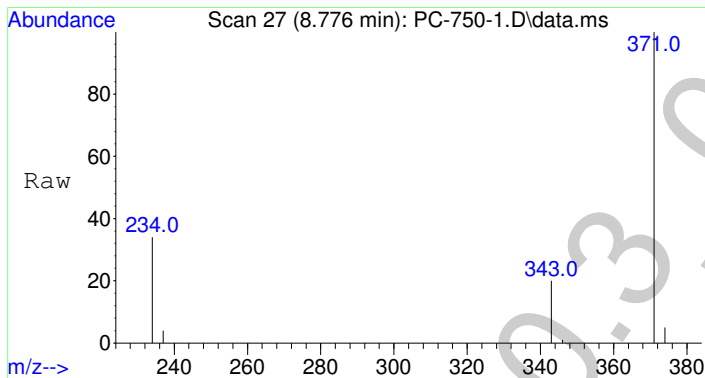
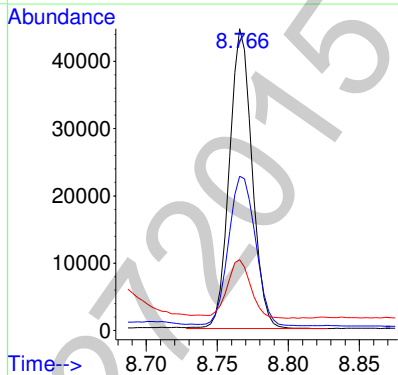
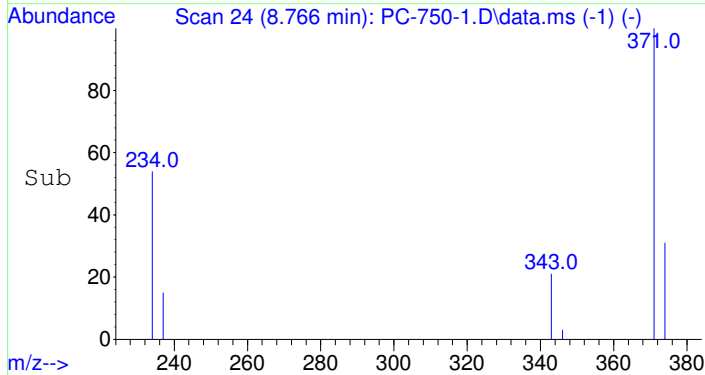


2



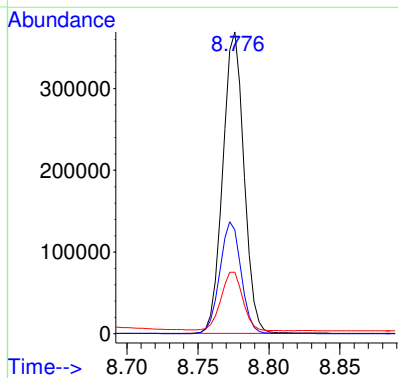
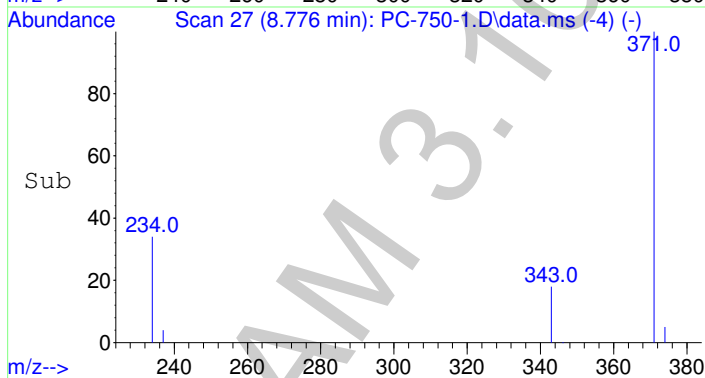
#1  
 Codeine-D3-TMS  
 Concen: 100.00 ng/mL  
 RT: 8.766 min Scan# 24  
 Delta R.T. -0.000 min  
 Lab File: PC-750-1.D  
 Acq: 28 Jan 2015 1:55

Tgt Ion	Resp	Lower	Upper
374	49451		
374	100		
237	59.3	34.6	51.8#
346	20.2	16.9	25.3

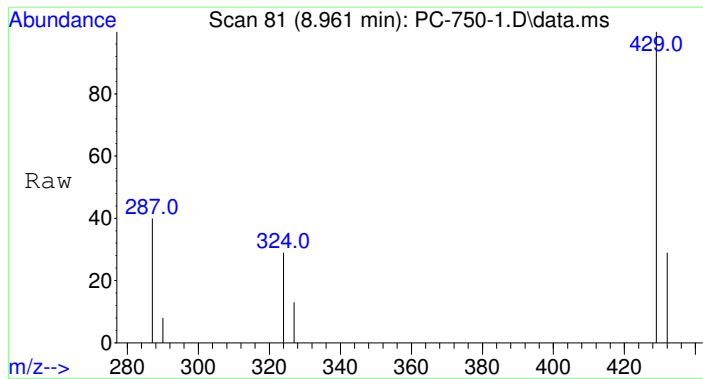


#2  
 Codeine-TMS  
 Concen: 816.38 ng/mL  
 RT: 8.776 min Scan# 27  
 Delta R.T. -0.000 min  
 Lab File: PC-750-1.D  
 Acq: 28 Jan 2015 1:55

Tgt Ion	Resp	Lower	Upper
371	381819		
371	100		
234	37.3	30.8	46.2
343	20.1	19.0	28.6

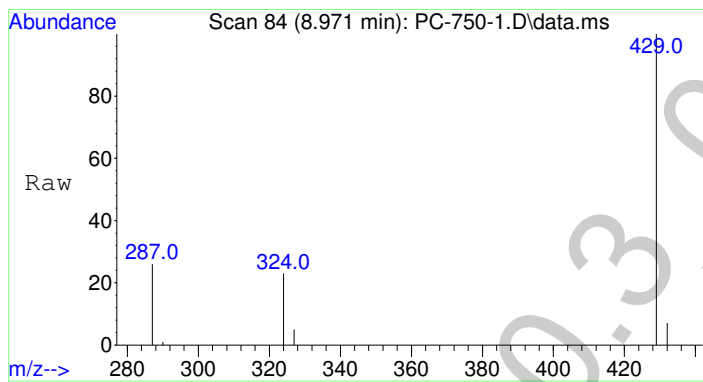
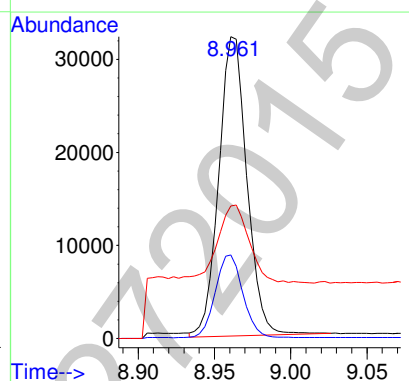
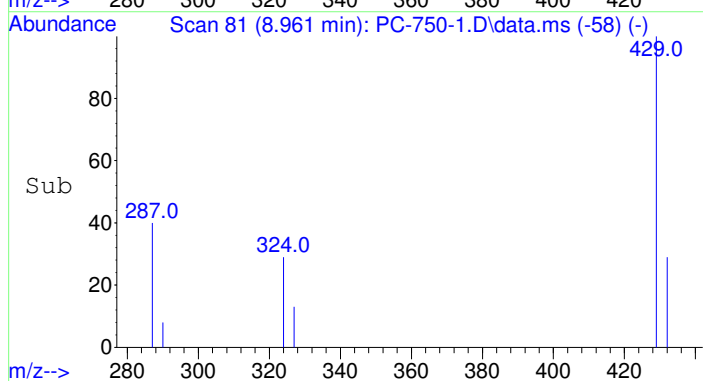


2



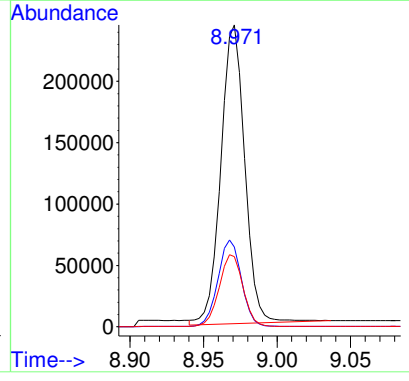
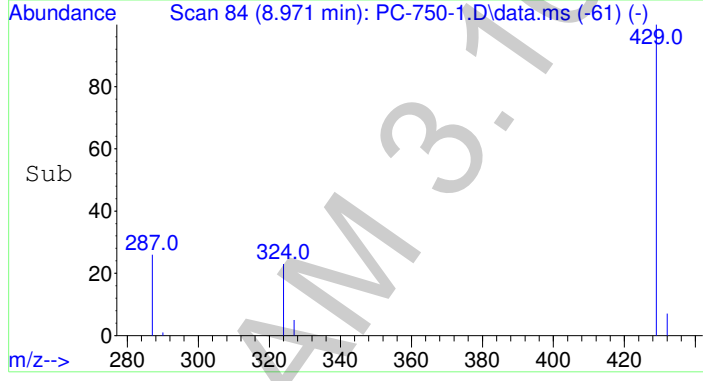
#3  
 Morphine-D3-TMS  
 Concen: 100.00 ng/mL  
 RT: 8.961 min Scan# 81  
 Delta R.T. -0.000 min  
 Lab File: PC-750-1.D  
 Acq: 28 Jan 2015 1:55

Tgt Ion	Ratio	Resp	Lower	Upper
432	100	41252		
290	27.5	22.9	34.3	
327	28.7	19.0	28.6	#



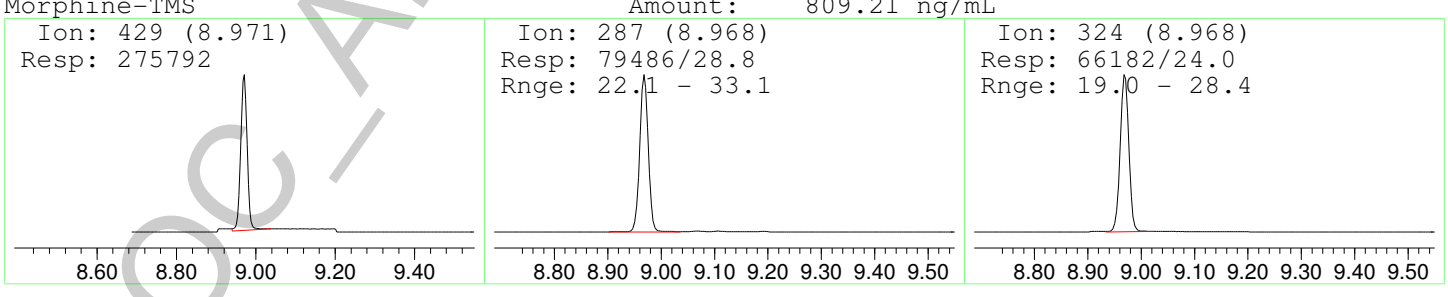
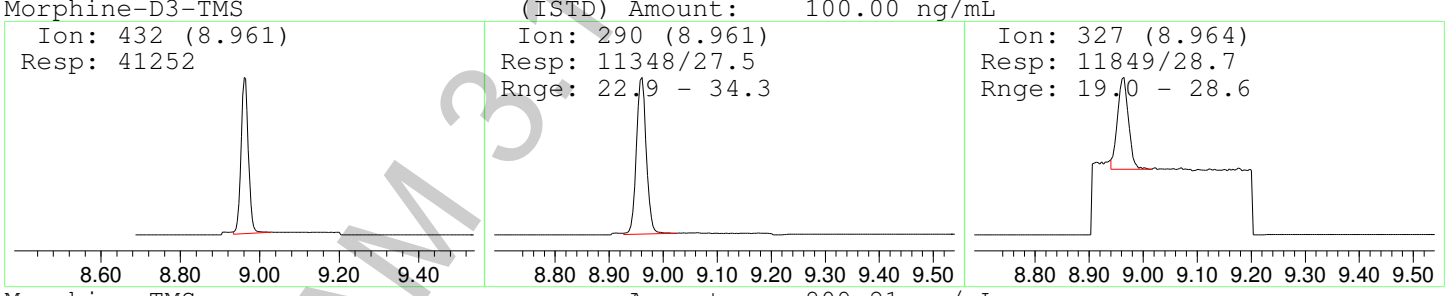
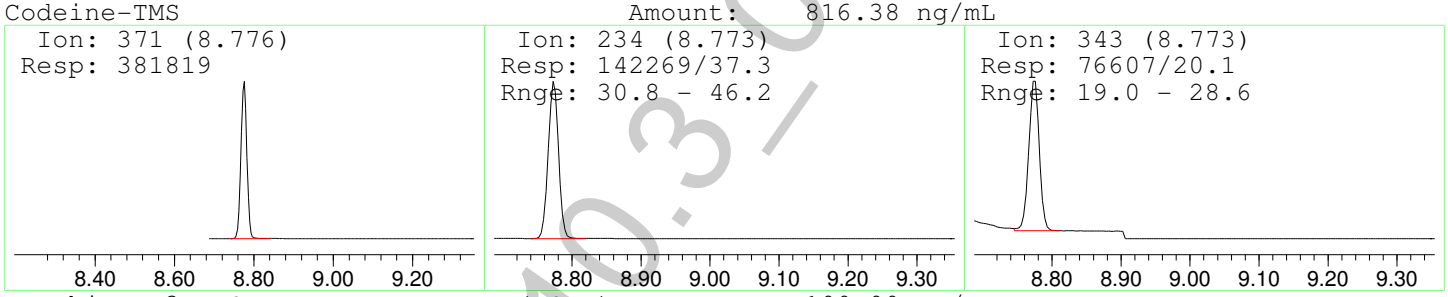
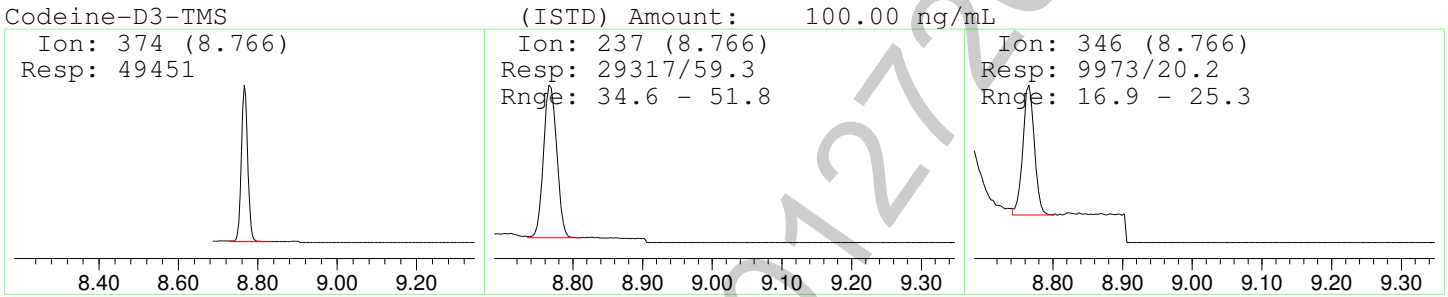
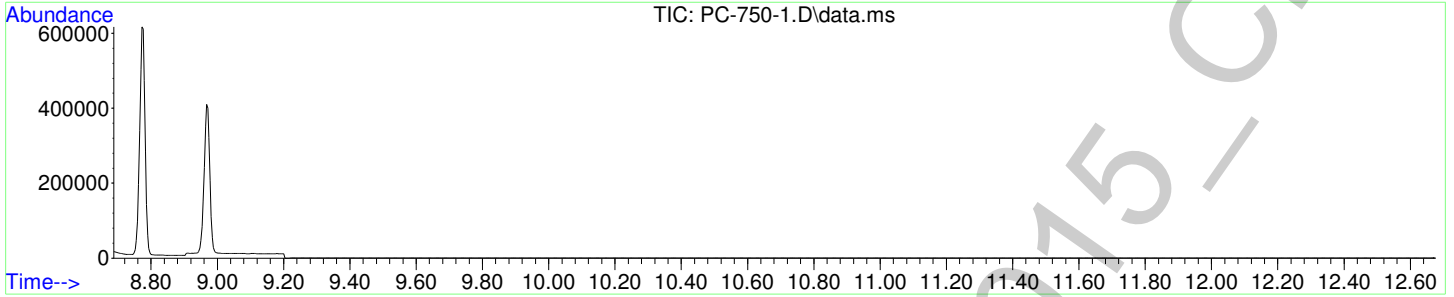
#4  
 Morphine-TMS  
 Concen: 809.21 ng/mL  
 RT: 8.971 min Scan# 84  
 Delta R.T. 0.000 min  
 Lab File: PC-750-1.D  
 Acq: 28 Jan 2015 1:55

Tgt Ion	Ratio	Resp	Lower	Upper
429	100	275792		
287	28.8	22.1	33.1	
324	24.0	19.0	28.4	



2

Data Path : F:\Data\012715OP\  
 Data File : PC-750-1.D  
 Acq On : 28 Jan 2015 1:55  
 Operator : Pocatello Laboratory  
 Sample : 750ng/mL Positive Control  
 Misc : Analytical Method 3.10.3  
 ALS Vial : 9 Sample Multiplier: 1



2

File :F:\Data\012715OP\Post-Blank.D  
Operator : Pocatello Laboratory  
Acquired : 28 Jan 2015 9:40 using AcqMethod AM-3-10-3-3.M  
Instrument : Probie  
Sample Name: Post-run Solvent Blank  
Misc Info : CHCl3  
Vial Number: 89

