

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102114\
 Data File : BE088174.D
 Acq On : 22 Oct 2014 10:15
 Operator : TP/JJ
 Sample : F4312-11 2X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB27-1014

Manual Integrations
 APPROVED

mohammad
 10/22/2014 1:56:17 PM

Quant Time: Oct 22 11:26:05 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102014.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 21 02:11:14 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	25627	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	97109	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	50813	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	78762	5.00	ng	0.00
16) Chrysene-d12	18.38	240	49728	5.00	ng	0.00
22) Perylene-d12	21.44	264	46621	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.83	82	216446	30.92	ng	0.00
8) 2-Fluorobiphenyl	10.04	172	305885	21.79	ng	0.00
18) Terphenyl-d14	16.15	244	229586	28.69	ng	0.00
Target Compounds						Qvalue
6) 2-Methylnaphthalene	9.58	142	357	0.03	ng	# 93
10) Acenaphthene	10.88	154	2156	0.18	ng	89
11) Fluorene	11.55	166	2151	0.17	ng	99
13) Phenanthrene	13.01	178	168062	2.80	ng	95
14) Anthracene	13.09	178	36187m	0.59	ng	
15) Fluoranthene	15.25	202	44810	2.99	ng	99
17) Pyrene	15.70	202	35460	2.62	ng	96
19) Benzo(a)anthracene	18.36	228	56889	1.29	ng	98
20) Chrysene	18.44	228	60544	1.40	ng	97
21) Indeno(1,2,3-cd)pyrene	23.64	276	31228	0.65	ng	# 89
23) Benzo(b)fluoranthene	20.69	252	15885	1.43	ng	97
24) Benzo(k)fluoranthene	20.74	252	6791	0.57	ng	96
25) Benzo(a)pyrene	21.32	252	10609	1.04	ng	97
26) Dibenzo(a,h)anthracene	23.73	278	1566	0.16	ng	# 85
27) Benzo(g,h,i)perylene	24.26	276	30995	0.70	ng	98

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

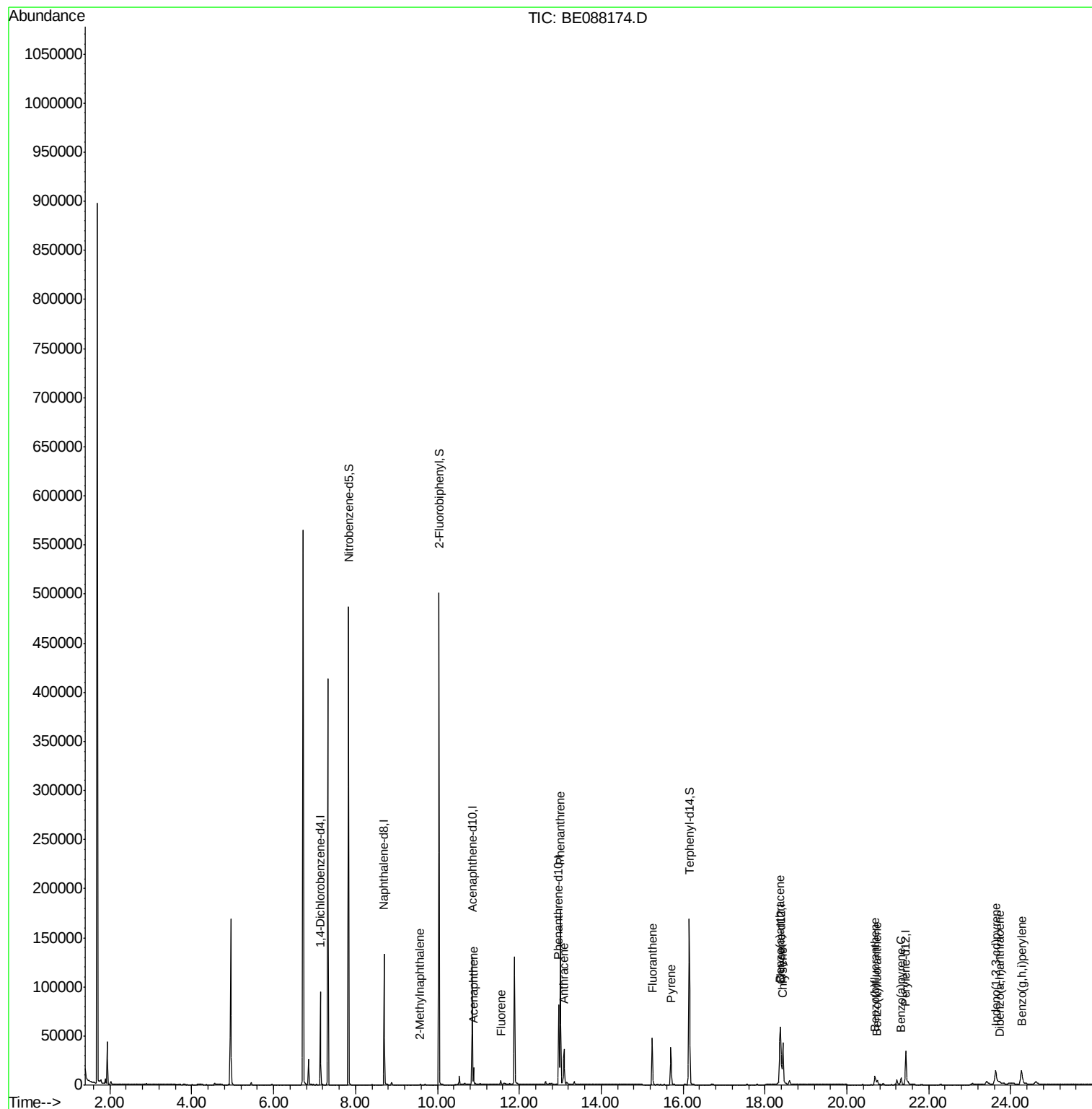
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102114\
Data File : BE088174.D
Acq On : 22 Oct 2014 10:15
Operator : TP/JJ
Sample : F4312-11 2X
Misc :
ALS Vial : 32 Sample Multiplier: 1

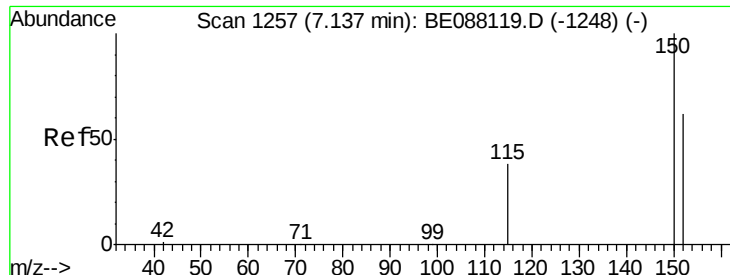
Instrument :
BNA_E
ClientSampleId :
YS19-SB27-1014

Manual Integrations
APPROVED

mohammad
10/22/2014 1:56:17 PM

Quant Time: Oct 22 11:26:05 2014
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102014.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 21 02:11:14 2014
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.14 min Scan# 1258

Delta R.T. 0.00 min

Lab File: BE088174.D

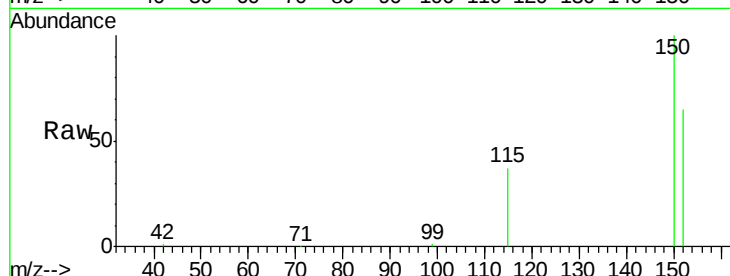
Acq: 22 Oct 2014 10:15

Instrument :

BNA_E

ClientSampleId :

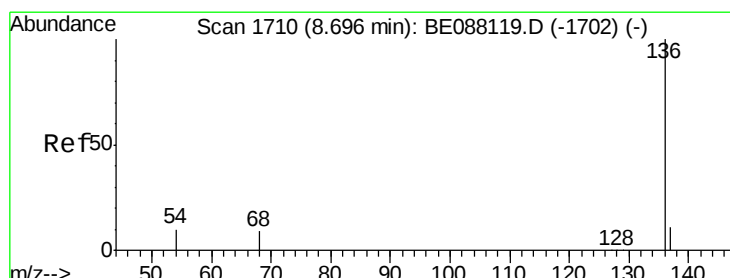
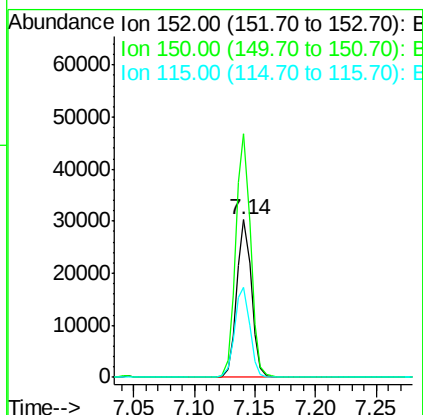
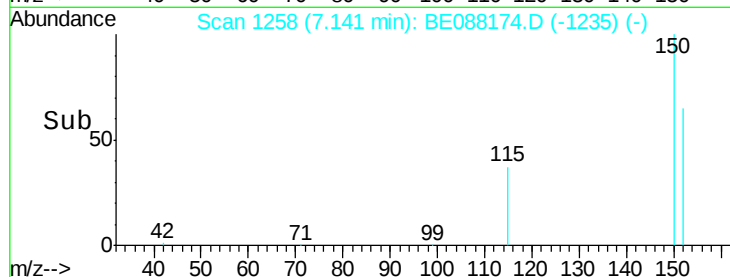
YS19-SB27-1014



Tgt Ion:	152	Resp:	25627
Ion Ratio	Lower	Upper	
152	100		
150	154.8	129.2	193.8
115	57.6	49.3	73.9

Manual Integrations
APPROVED

mohammad
10/22/2014 1:56:17 PM



#3

Naphthalene-d8

Concen: 5.00 ng

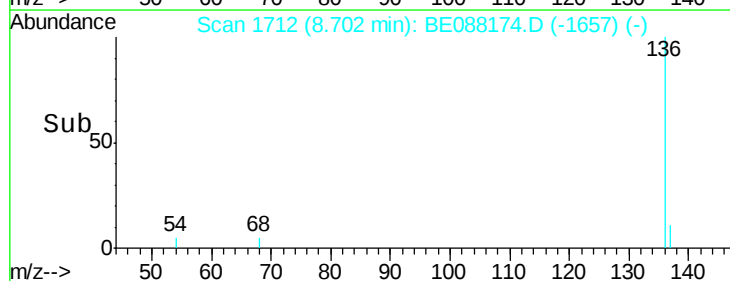
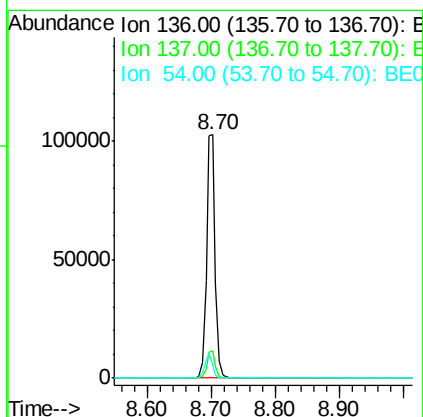
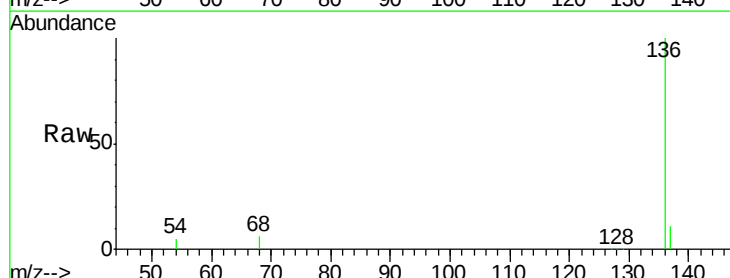
RT: 8.70 min Scan# 1712

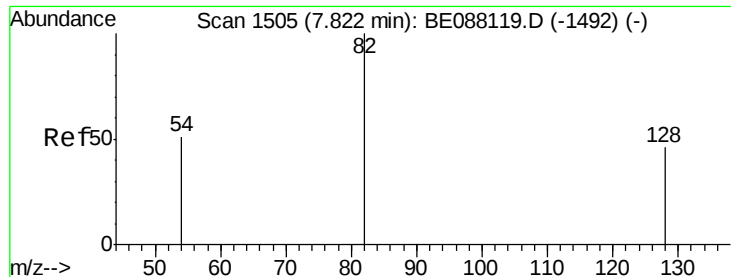
Delta R.T. 0.01 min

Lab File: BE088174.D

Acq: 22 Oct 2014 10:15

Tgt Ion:	136	Resp:	97109
Ion Ratio	Lower	Upper	
136	100		
137	11.4	8.6	12.8
54	5.5	7.7	11.5#





#4

Nitrobenzene-d5

Concen: 30.92 ng

RT: 7.83 min Scan# 1509

Delta R.T. 0.01 min

Lab File: BE088174.D

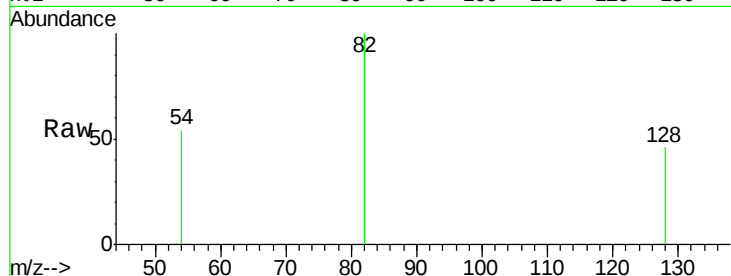
Acq: 22 Oct 2014 10:15

Instrument :

BNA_E

ClientSampleId :

YS19-SB27-1014



Tgt Ion: 82 Resp: 216446

Ion Ratio Lower Upper

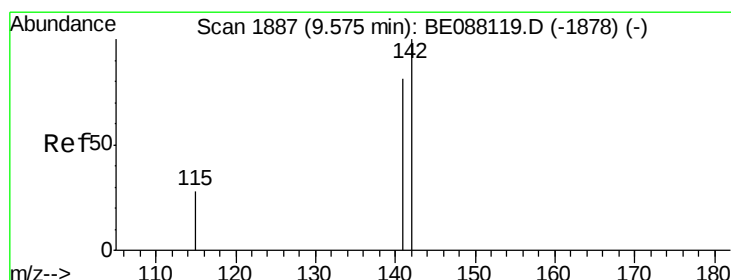
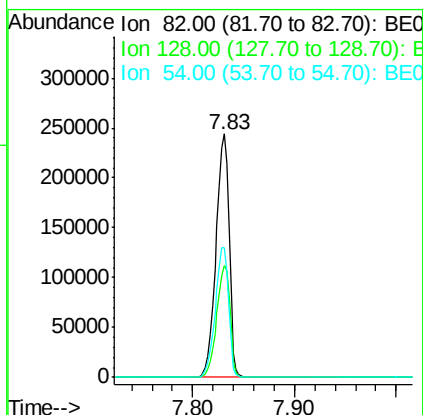
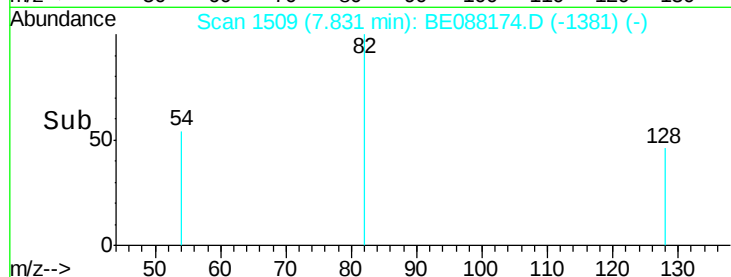
82 100

128 46.1 37.1 55.7

54 53.5 41.1 61.7

Manual Integrations
APPROVED

mohammad
10/22/2014 1:56:17 PM



#6

2-Methylnaphthalene

Concen: 0.03 ng

RT: 9.58 min Scan# 1888

Delta R.T. 0.00 min

Lab File: BE088174.D

Acq: 22 Oct 2014 10:15

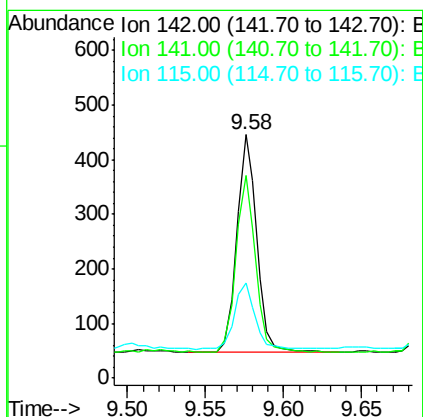
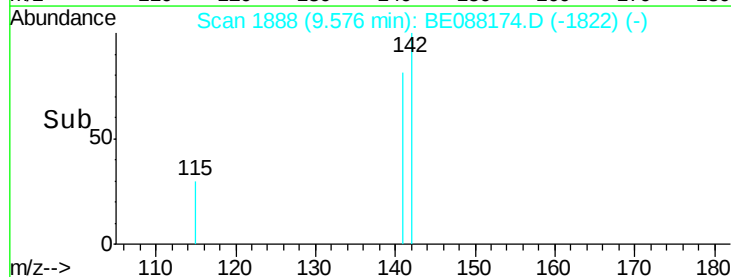
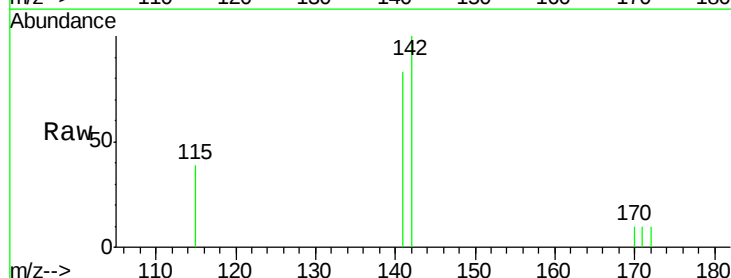
Tgt Ion: 142 Resp: 357

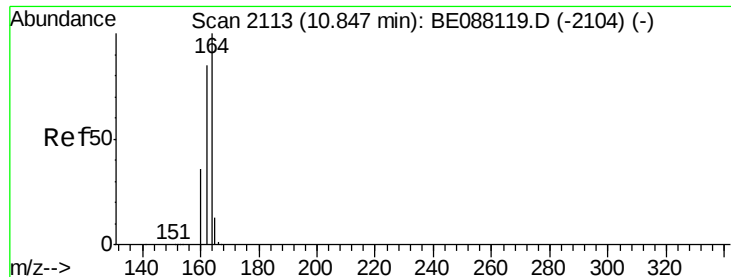
Ion Ratio Lower Upper

142 100

141 83.4 64.6 97.0

115 39.0 22.6 34.0#





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.85 min Scan# 2114

Delta R.T. 0.00 min

Lab File: BE088174.D

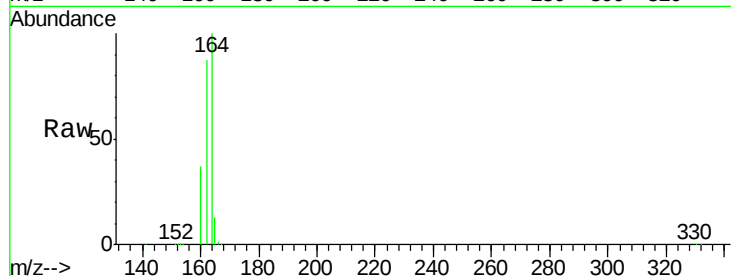
Acq: 22 Oct 2014 10:15

Instrument :

BNA_E

ClientSampleId :

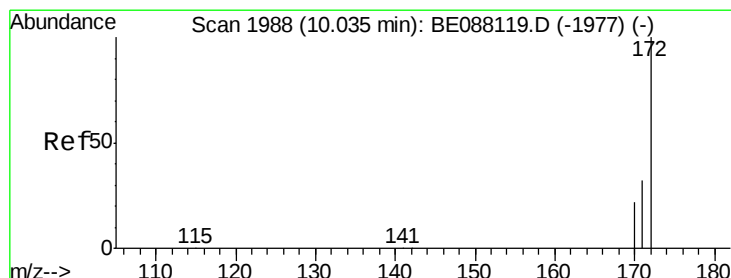
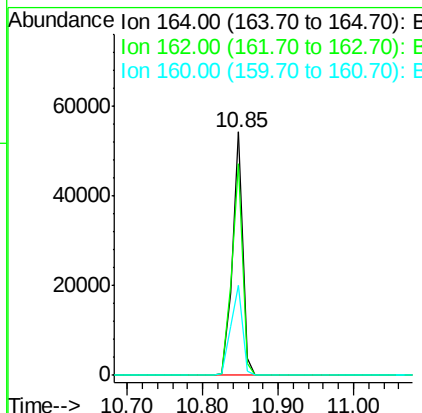
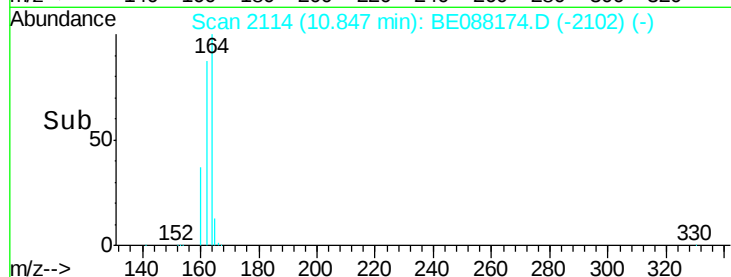
YS19-SB27-1014



Tgt Ion:	164	Resp:	50813
Ion Ratio	Lower	Upper	
164	100		
162	87.1	68.3	102.5
160	37.1	28.7	43.1

Manual Integrations
APPROVED

mohammad
10/22/2014 1:56:17 PM



#8

2-Fluorobiphenyl

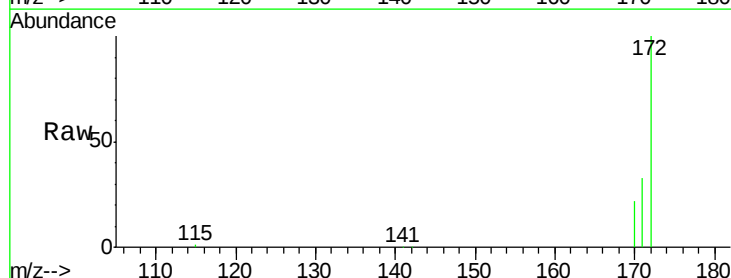
Concen: 21.79 ng

RT: 10.04 min Scan# 1990

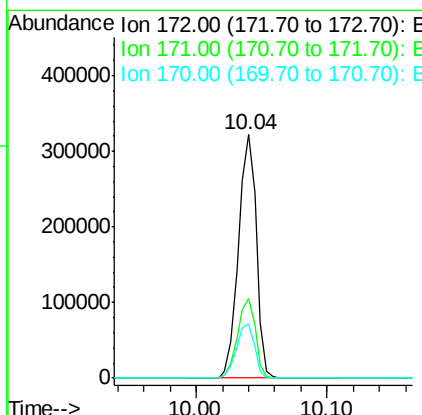
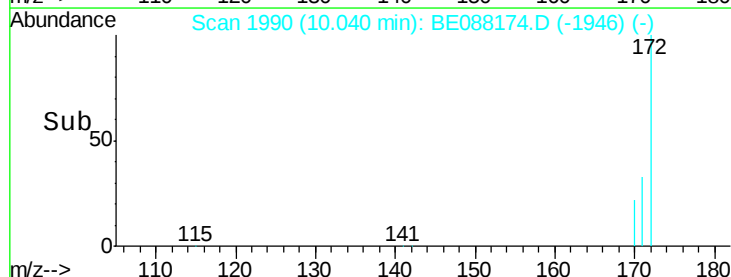
Delta R.T. 0.01 min

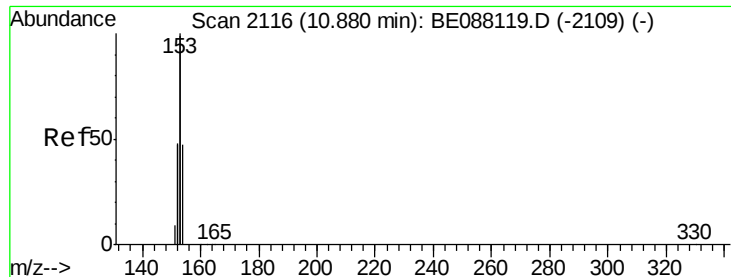
Lab File: BE088174.D

Acq: 22 Oct 2014 10:15



Tgt Ion:	172	Resp:	305885
Ion Ratio	Lower	Upper	
172	100		
171	32.7	25.4	38.2
170	22.4	17.4	26.2





#10

Acenaphthene

Concen: 0.18 ng

RT: 10.88 min Scan# 2117

Delta R.T. 0.00 min

Lab File: BE088174.D

Acq: 22 Oct 2014 10:15

Instrument :

BNA_E

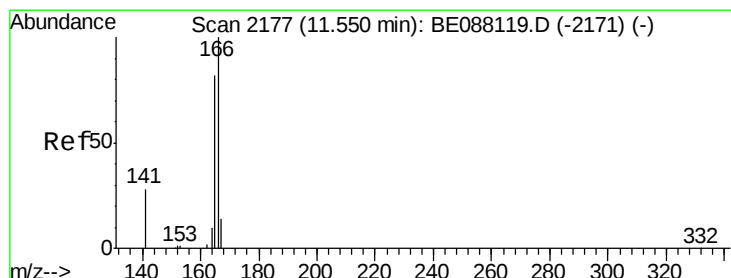
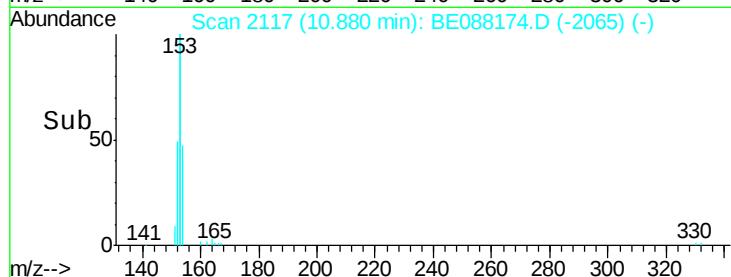
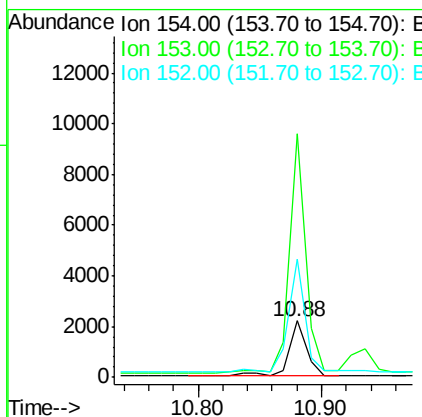
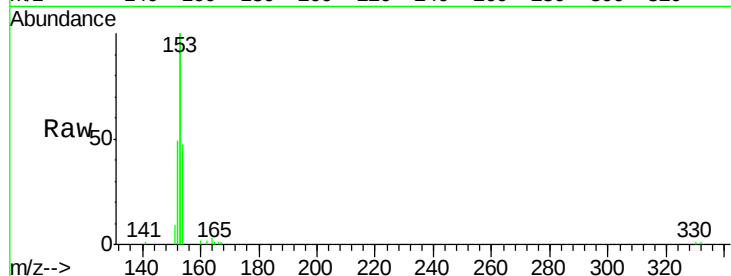
ClientSampleId :

YS19-SB27-1014

Manual Integrations
APPROVED

mohammad
10/22/2014 1:56:17 PM

Tgt Ion:	154	Resp:	2156
Ion Ratio	Lower	Upper	
154	100		
153	372.9	327.8	491.6
152	195.3	157.6	236.4



#11

Fluorene

Concen: 0.17 ng

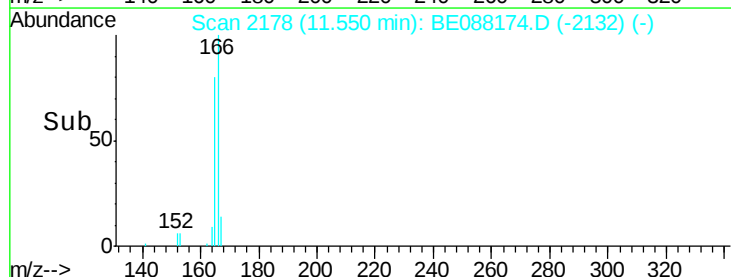
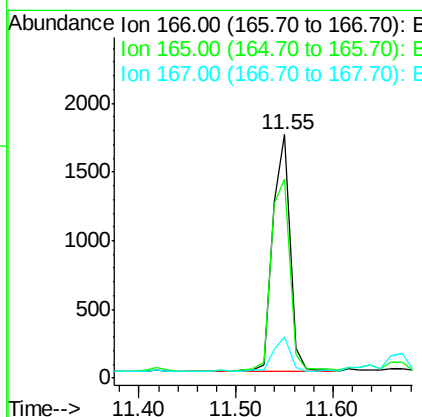
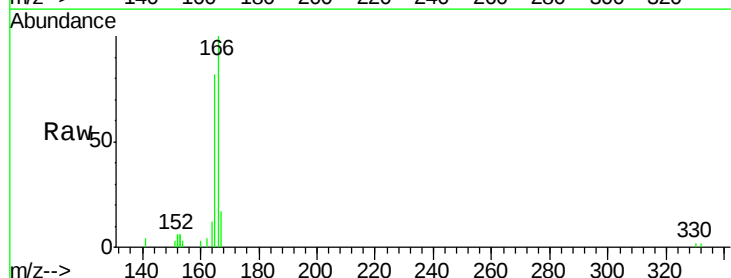
RT: 11.55 min Scan# 2178

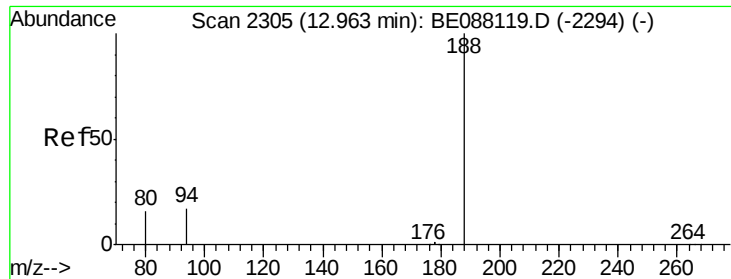
Delta R.T. 0.00 min

Lab File: BE088174.D

Acq: 22 Oct 2014 10:15

Tgt Ion:	166	Resp:	2151
Ion Ratio	Lower	Upper	
166	100		
165	88.7	71.4	107.2
167	13.9	10.6	16.0





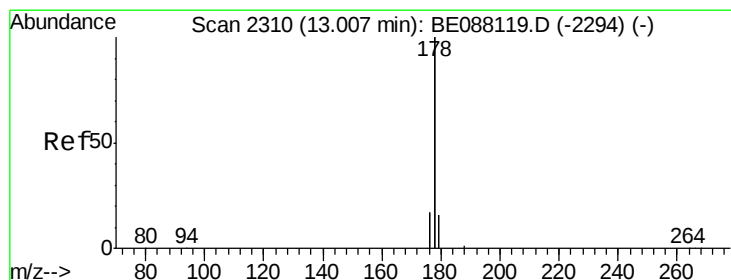
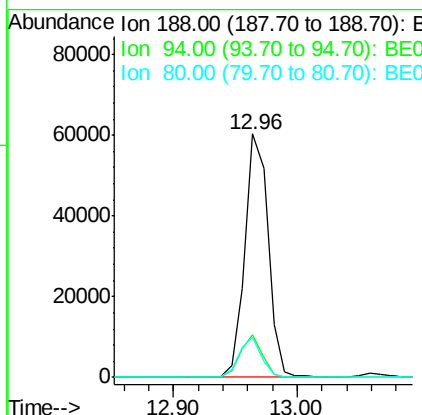
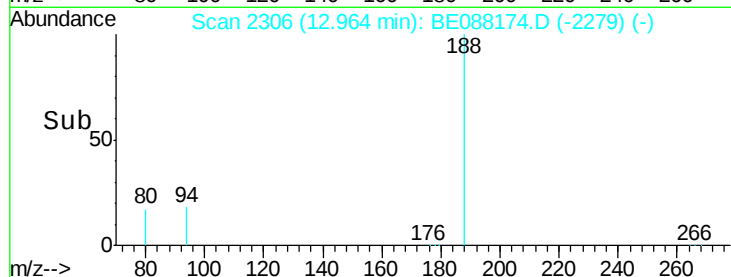
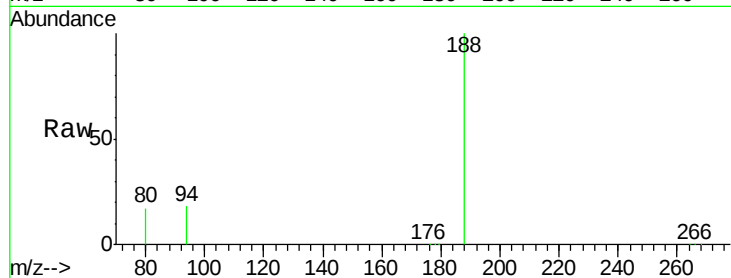
#12
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.96 min Scan# 2306
Delta R.T. 0.00 min
Lab File: BE088174.D
Acq: 22 Oct 2014 10:15

Instrument :
BNA_E
ClientSampleId :
YS19-SB27-1014

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	78762		
94	17.7		13.9	20.9
80	16.7		12.9	19.3

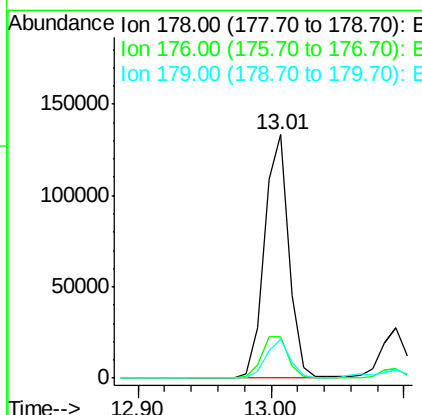
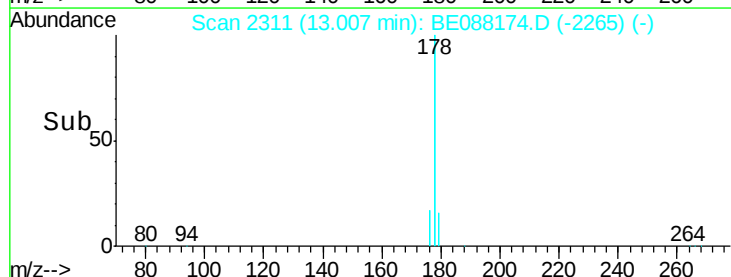
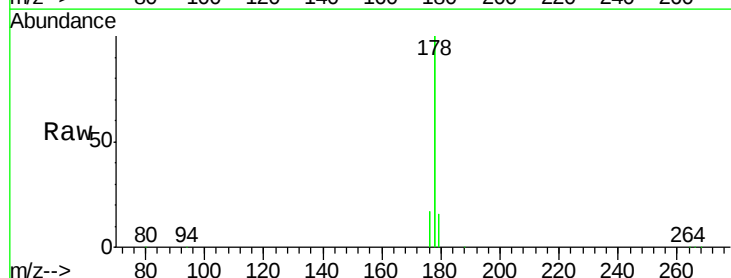
Manual Integrations
APPROVED

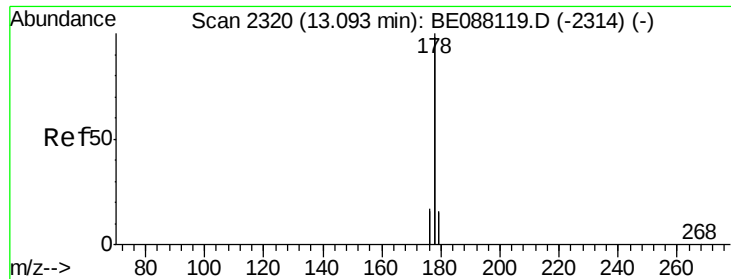
mohammad
10/22/2014 1:56:17 PM



#13
Phenanthrene
Concen: 2.80 ng
RT: 13.01 min Scan# 2311
Delta R.T. 0.00 min
Lab File: BE088174.D
Acq: 22 Oct 2014 10:15

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	168062		
176	18.4		12.5	18.7
179	15.7		13.5	20.3





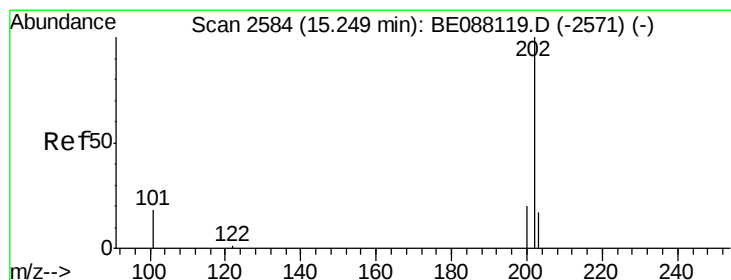
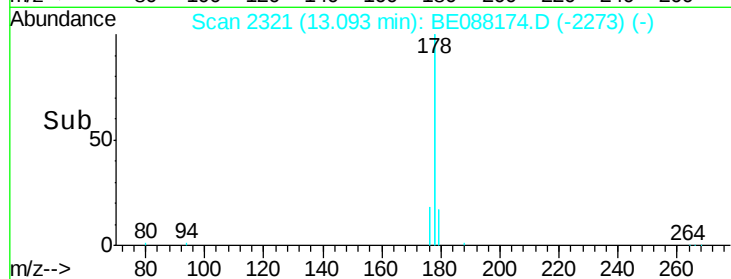
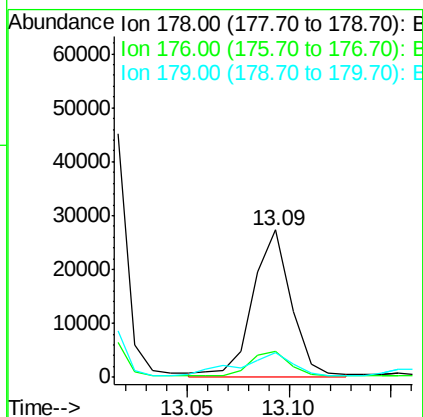
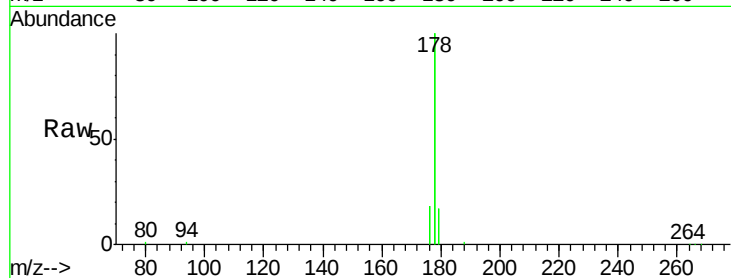
#14
 Anthracene
 Concen: 0.59 ng m
 RT: 13.09 min Scan# 2321
 Delta R.T. 0.00 min
 Lab File: BE088174.D
 Acq: 22 Oct 2014 10:15

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB27-1014

Tgt Ion:178 Resp: 36187
 Ion Ratio Lower Upper
 178 100
 176 85.4 14.6 21.8#
 179 73.0 12.5 18.7#

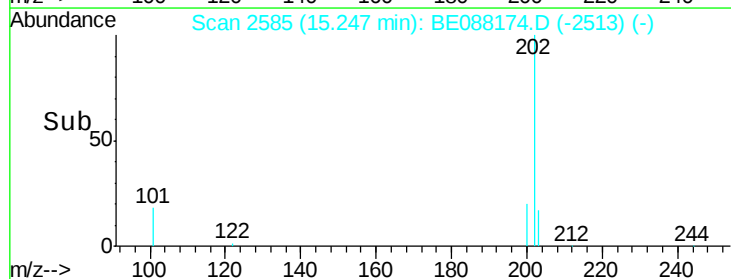
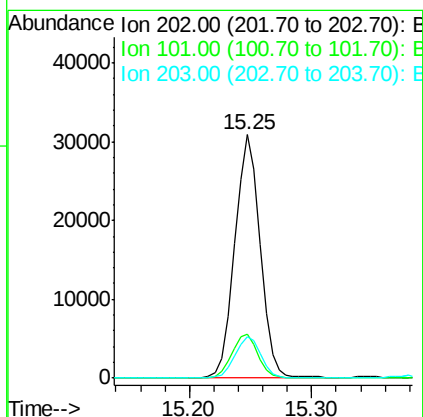
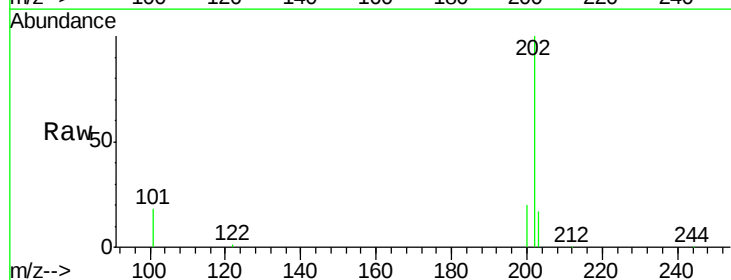
Manual Integrations
 APPROVED

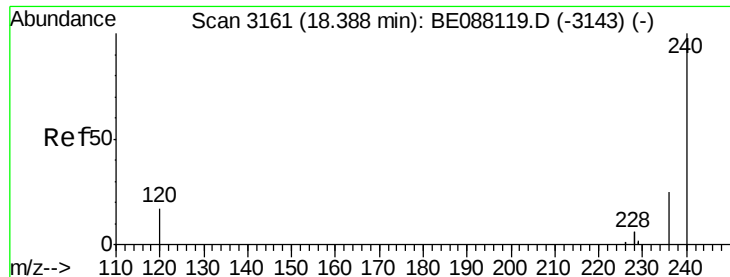
mohammad
 10/22/2014 1:56:17 PM



#15
 Fluoranthene
 Concen: 2.99 ng
 RT: 15.25 min Scan# 2585
 Delta R.T. -0.00 min
 Lab File: BE088174.D
 Acq: 22 Oct 2014 10:15

Tgt Ion:202 Resp: 44810
 Ion Ratio Lower Upper
 202 100
 101 18.3 14.8 22.2
 203 17.2 13.5 20.3





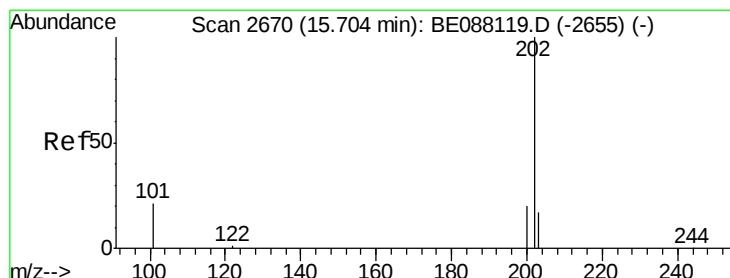
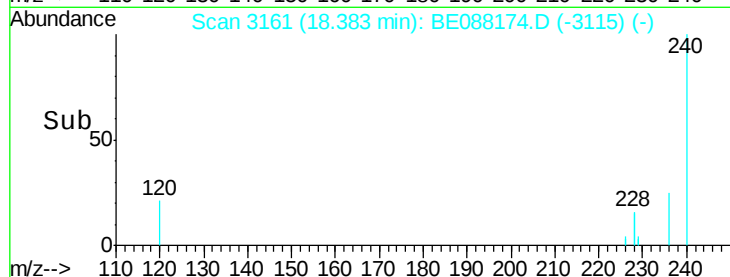
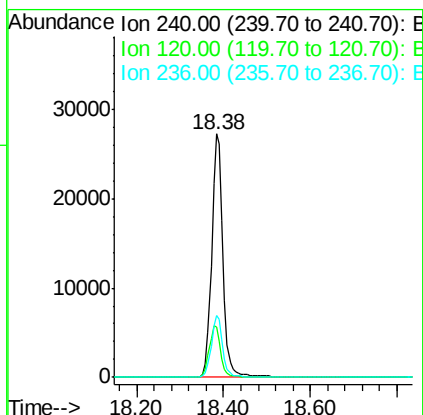
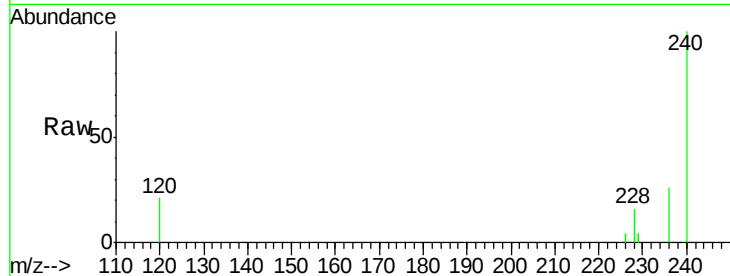
#16
Chrysene-d12
Concen: 5.00 ng
RT: 18.38 min Scan# 3161
Delta R.T. -0.00 min
Lab File: BE088174.D
Acq: 22 Oct 2014 10:15

Instrument :
BNA_E
ClientSampleId :
YS19-SB27-1014

Tgt Ion	Ratio	Lower	Upper
240	100		
120	20.8	13.9	20.9
236	25.6	19.9	29.9

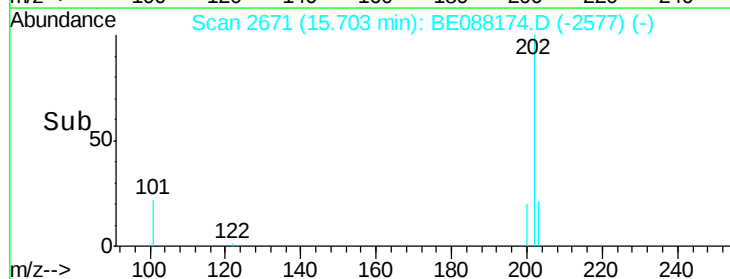
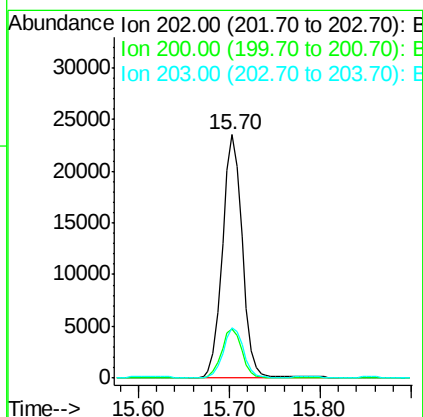
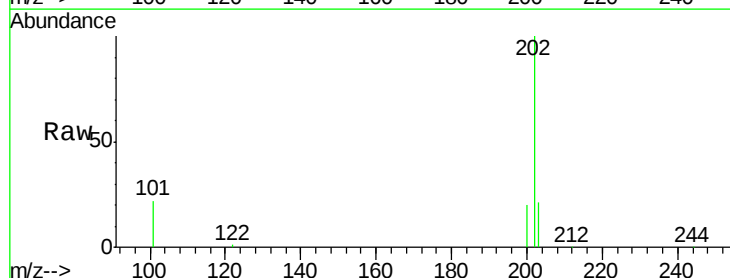
Manual Integrations
APPROVED

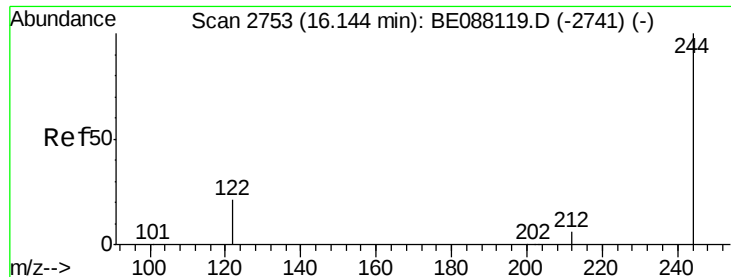
mohammad
10/22/2014 1:56:17 PM



#17
Pyrene
Concen: 2.62 ng
RT: 15.70 min Scan# 2671
Delta R.T. -0.00 min
Lab File: BE088174.D
Acq: 22 Oct 2014 10:15

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.4	16.1	24.1
203	20.7	13.9	20.9





#18

Terphenyl-d14

Concen: 28.69 ng

RT: 16.15 min Scan# 2756

Delta R.T. 0.01 min

Lab File: BE088174.D

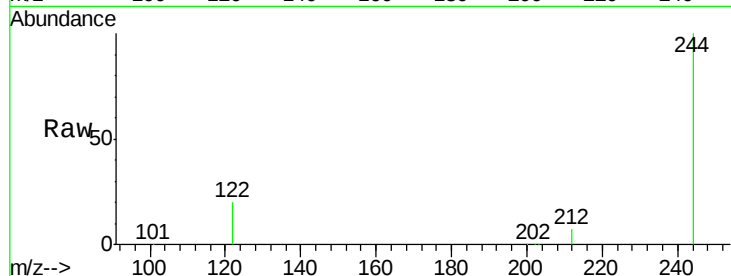
Acq: 22 Oct 2014 10:15

Instrument :

BNA_E

ClientSampleId :

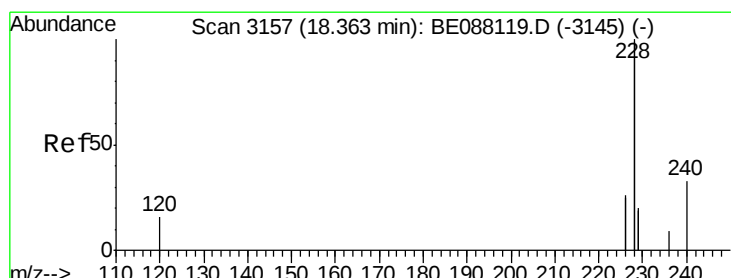
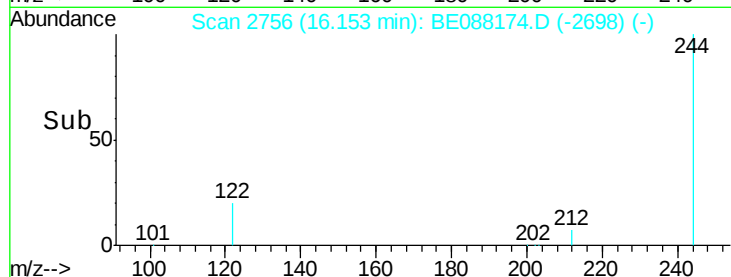
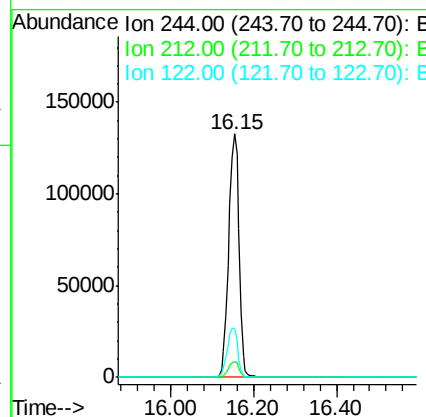
YS19-SB27-1014



Tgt Ion:	244	Resp:	229586
Ion Ratio	Lower	Upper	
244	100		
212	6.6	5.4	8.0
122	20.2	17.5	26.3

Manual Integrations
APPROVED

mohammad
10/22/2014 1:56:17 PM



#19

Benzo(a)anthracene

Concen: 1.29 ng

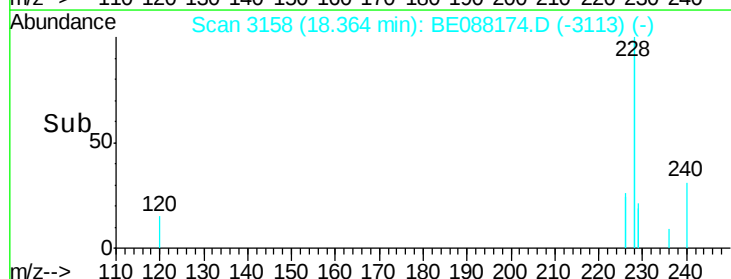
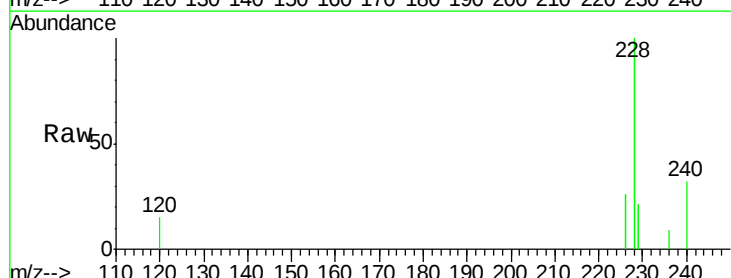
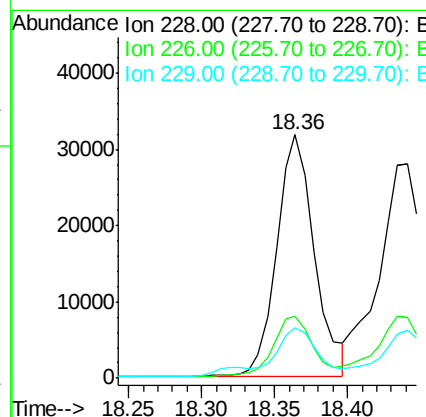
RT: 18.36 min Scan# 3158

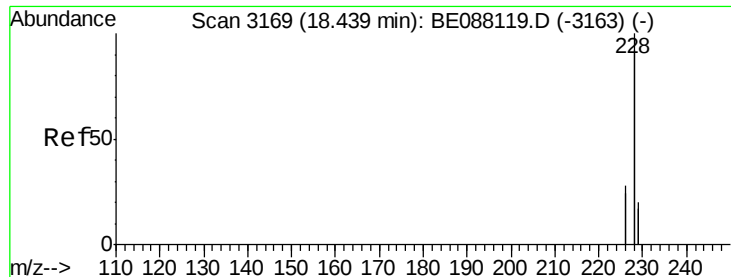
Delta R.T. 0.00 min

Lab File: BE088174.D

Acq: 22 Oct 2014 10:15

Tgt Ion:	228	Resp:	56889
Ion Ratio	Lower	Upper	
228	100		
226	25.5	20.8	31.2
229	20.8	15.6	23.4





#20

Chrysene

Concen: 1.40 ng

RT: 18.44 min Scan# 3170

Delta R.T. 0.00 min

Lab File: BE088174.D

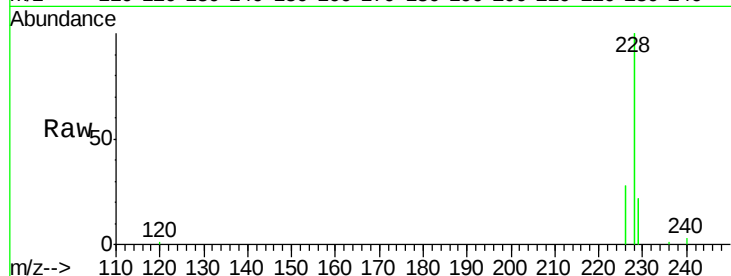
Acq: 22 Oct 2014 10:15

Instrument :

BNA_E

ClientSampleId :

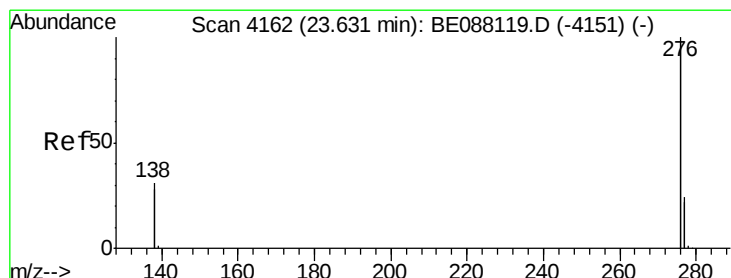
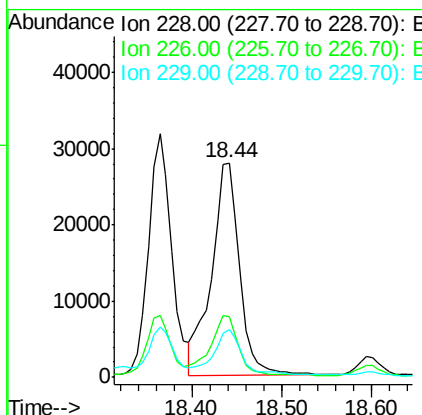
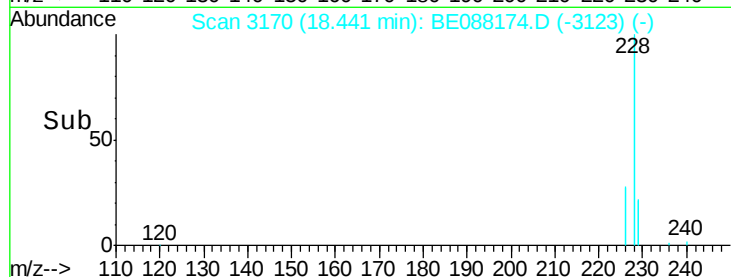
YS19-SB27-1014



Tgt Ion:	228	Resp:	60544
Ion Ratio	Lower	Upper	
228	100		
226	28.2	22.7	34.1
229	22.4	15.8	23.6

Manual Integrations
APPROVED

mohammad
10/22/2014 1:56:17 PM



#21

Indeno(1,2,3-cd)pyrene

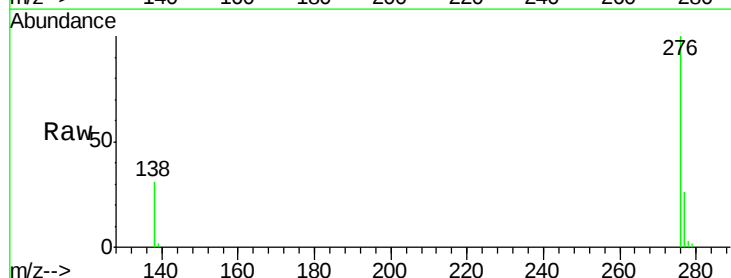
Concen: 0.65 ng

RT: 23.64 min Scan# 4164

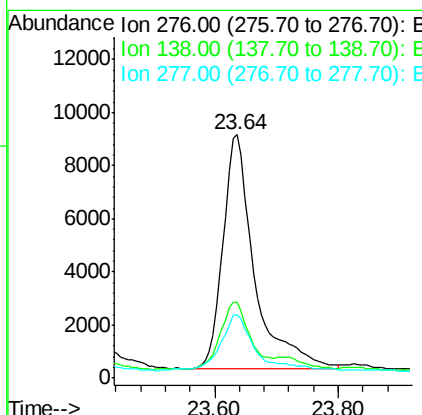
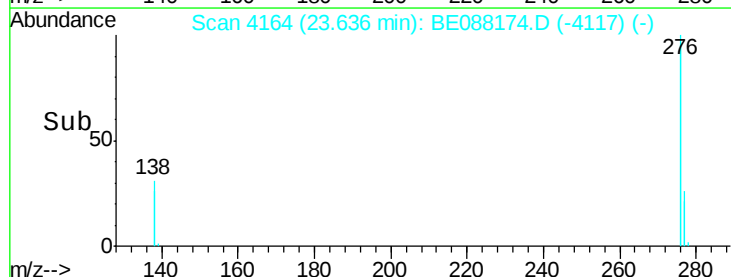
Delta R.T. 0.01 min

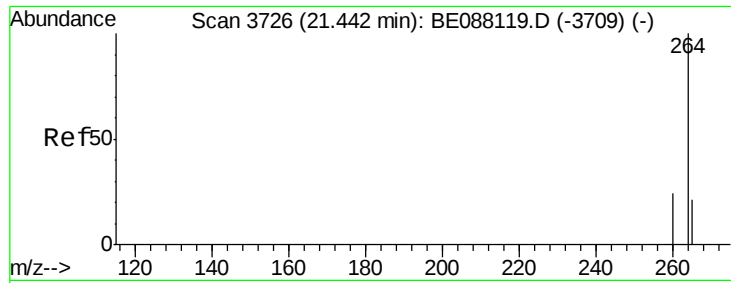
Lab File: BE088174.D

Acq: 22 Oct 2014 10:15



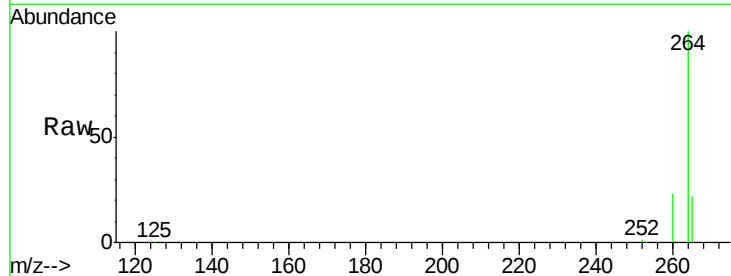
Tgt Ion:	276	Resp:	31228
Ion Ratio	Lower	Upper	
276	100		
138	27.1	18.5	27.7
277	25.1	14.6	21.8#





#22
Perylene-d12
 Concen: 5.00 ng
 RT: 21.44 min Scan# 3727
 Delta R.T. 0.00 min
 Lab File: BE088174.D
 Acq: 22 Oct 2014 10:15

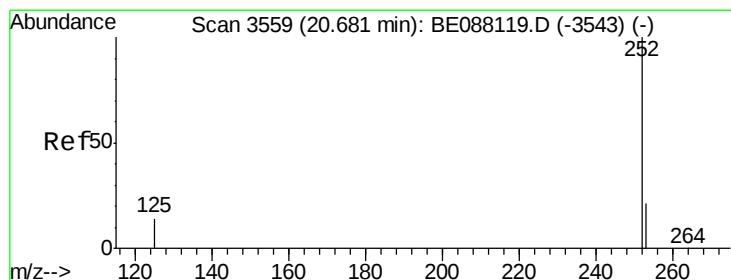
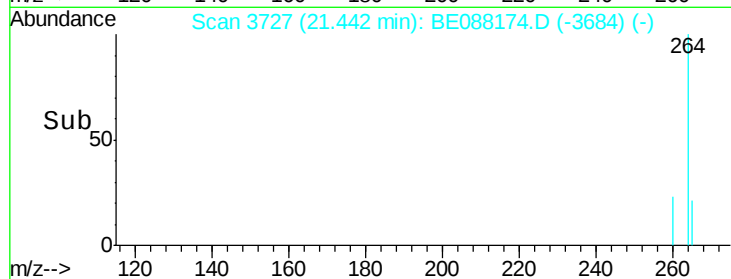
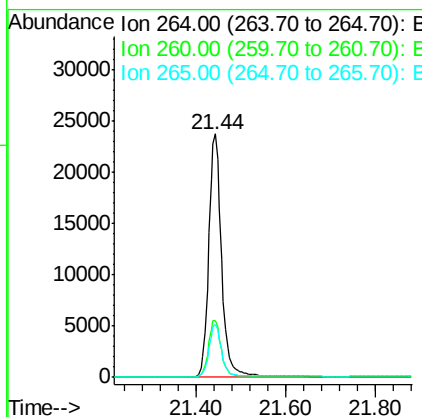
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB27-1014



Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.0	28.4
265	21.6	17.2	25.8

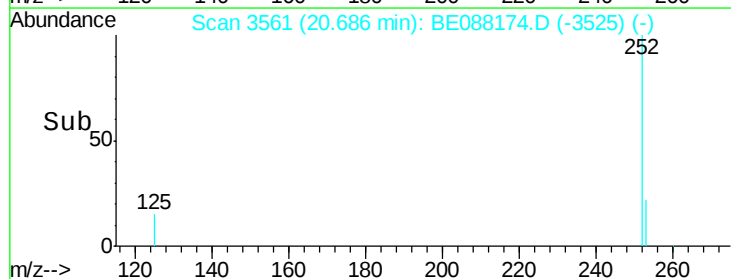
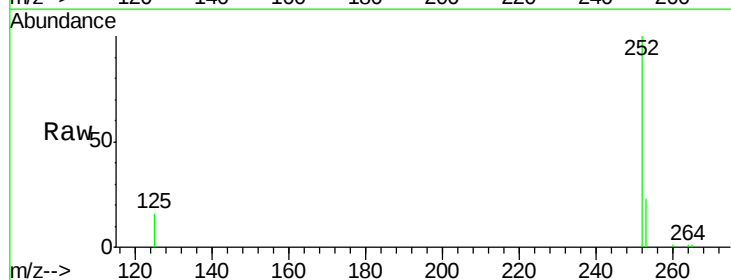
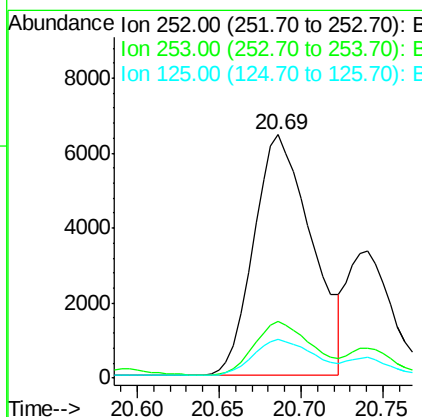
Manual Integrations
 APPROVED

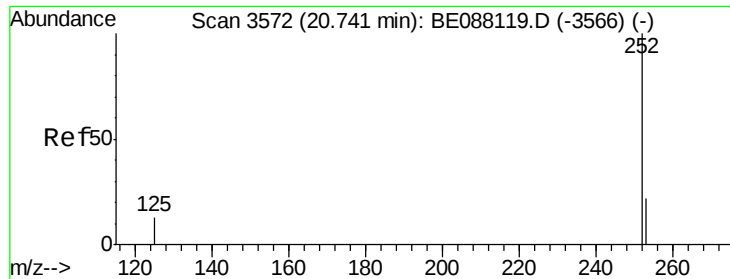
mohammad
 10/22/2014 1:56:17 PM



#23
Benzo(b)fluoranthene
 Concen: 1.43 ng
 RT: 20.69 min Scan# 3561
 Delta R.T. 0.00 min
 Lab File: BE088174.D
 Acq: 22 Oct 2014 10:15

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.4	26.0
125	15.7	11.8	17.8





#24

Benzo(k)fluoranthene

Concen: 0.57 ng

RT: 20.74 min Scan# 3573

Delta R.T. 0.00 min

Lab File: BE088174.D

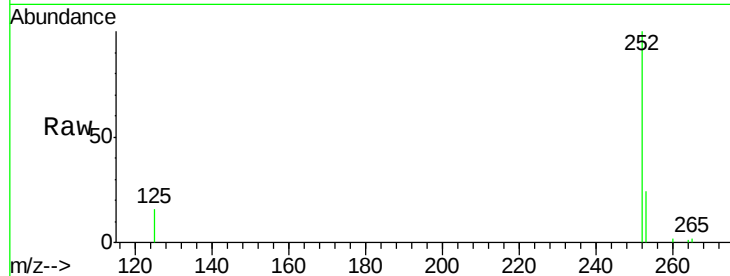
Acq: 22 Oct 2014 10:15

Instrument :

BNA_E

ClientSampleId :

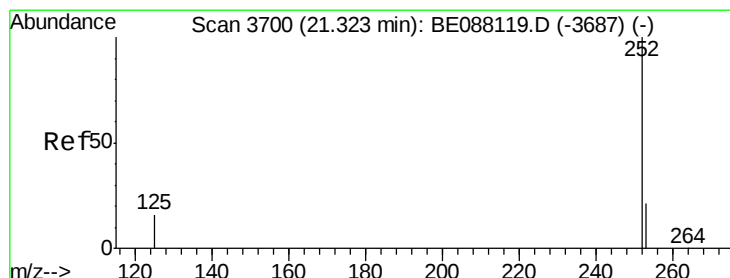
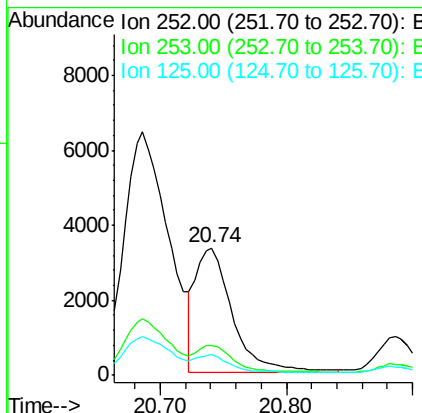
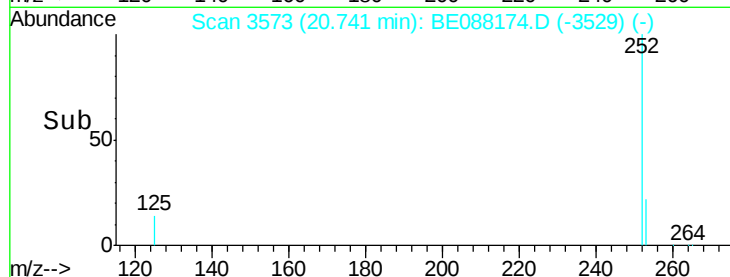
YS19-SB27-1014



Tgt Ion:	252	Resp:	6791
Ion Ratio	Lower	Upper	
252	100		
253	23.7	17.6	26.4
125	16.1	11.5	17.3

Manual Integrations
APPROVED

mohammad
10/22/2014 1:56:17 PM



#25

Benzo(a)pyrene

Concen: 1.04 ng

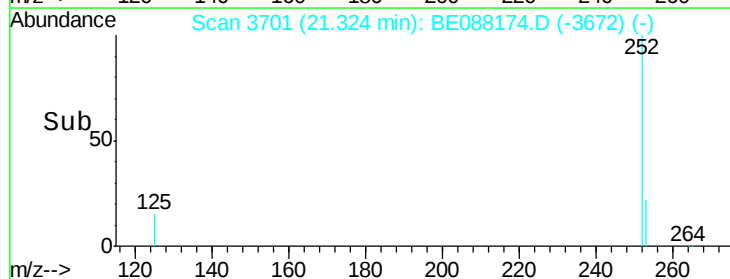
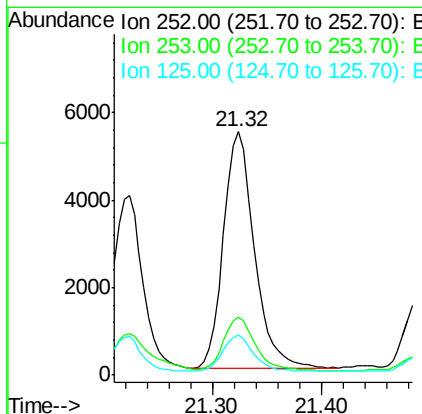
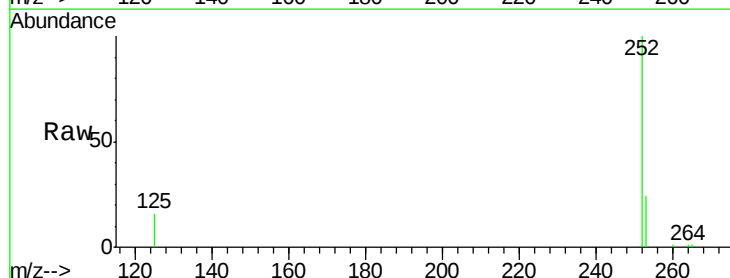
RT: 21.32 min Scan# 3701

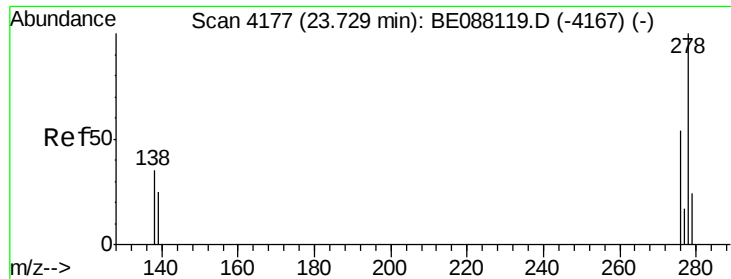
Delta R.T. 0.00 min

Lab File: BE088174.D

Acq: 22 Oct 2014 10:15

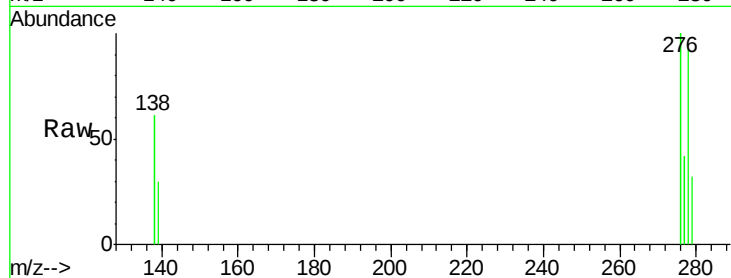
Tgt Ion:	252	Resp:	10609
Ion Ratio	Lower	Upper	
252	100		
253	24.0	17.5	26.3
125	16.3	13.0	19.6





#26
Dibenzo(a,h)anthracene
Concen: 0.16 ng
RT: 23.73 min Scan# 4178
Delta R.T. -0.00 min
Lab File: BE088174.D
Acq: 22 Oct 2014 10:15

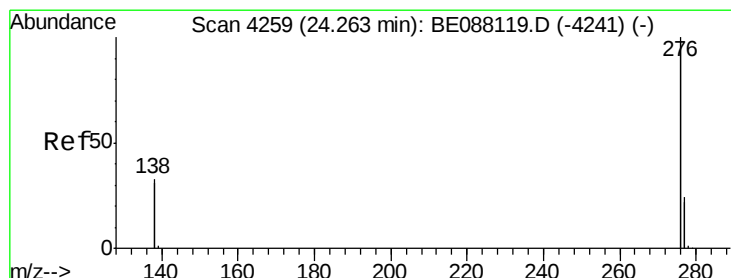
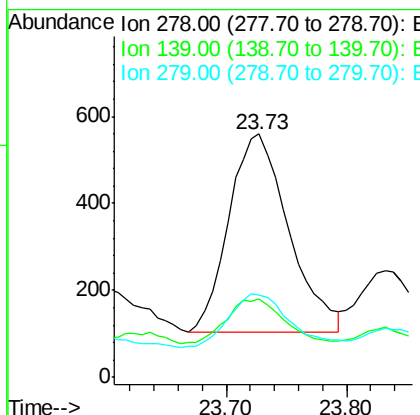
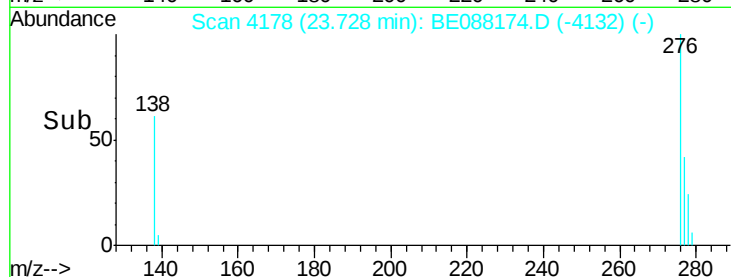
Instrument :
BNA_E
ClientSampleId :
YS19-SB27-1014



Tgt Ion	Ratio	Lower	Upper
278	100		
139	32.1	20.9	31.3#
279	33.9	19.8	29.8#

Manual Integrations
APPROVED

mohammad
10/22/2014 1:56:17 PM



#27
Benzo(g,h,i)perylene
Concen: 0.70 ng
RT: 24.26 min Scan# 4260
Delta R.T. -0.00 min
Lab File: BE088174.D
Acq: 22 Oct 2014 10:15

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.7	19.2	28.8
138	33.8	26.6	40.0

