

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102114\
 Data File : BE088171.D
 Acq On : 22 Oct 2014 8:37
 Operator : TP/JJ
 Sample : F4303-17DL 2X
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB06-1014DL

Manual Integrations
 APPROVED

mohammad
 10/22/2014 1:56:09 PM

Quant Time: Oct 22 11:16:42 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	24907	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	100622	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	51579	5.00	ng	0.00
12) Phenanthrene-d10	12.97	188	77971	5.00	ng	0.00
16) Chrysene-d12	18.39	240	50790	5.00	ng	0.00
22) Perylene-d12	21.45	264	45798	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.83	82	209909	28.94	ng	0.00
8) 2-Fluorobiphenyl	10.04	172	293047	20.57	ng	0.00
18) Terphenyl-d14	16.15	244	221250	27.07	ng	0.00
Target Compounds						Qvalue
5) Naphthalene	8.72	128	8450	0.41	ng	99
6) 2-Methylnaphthalene	9.57	142	2143	0.17	ng	94
9) Acenaphthylene	10.67	152	5056	0.06	ng	# 76
10) Acenaphthene	10.88	154	9100	0.75	ng	99
11) Fluorene	11.54	166	9768	0.76	ng	99
13) Phenanthrene	13.01	178	660001	11.79	ng	95
14) Anthracene	13.09	178	181237m	2.98	ng	
15) Fluoranthene	15.25	202	235799	15.89	ng	99
17) Pyrene	15.71	202	198793m	14.40	ng	
19) Benzo(a)anthracene	18.36	228	340920	7.55	ng	99
20) Chrysene	18.44	228	334932	7.56	ng	98
21) Indeno(1,2,3-cd)pyrene	23.64	276	177254	3.60	ng	# 88
23) Benzo(b)fluoranthene	20.69	252	89968	8.25	ng	99
24) Benzo(k)fluoranthene	20.74	252	38585	3.31	ng	99
25) Benzo(a)pyrene	21.33	252	66229	6.60	ng	97
26) Dibenzo(a,h)anthracene	23.73	278	8446	0.86	ng	95
27) Benzo(g,h,i)perylene	24.28	276	178507	4.10	ng	98

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

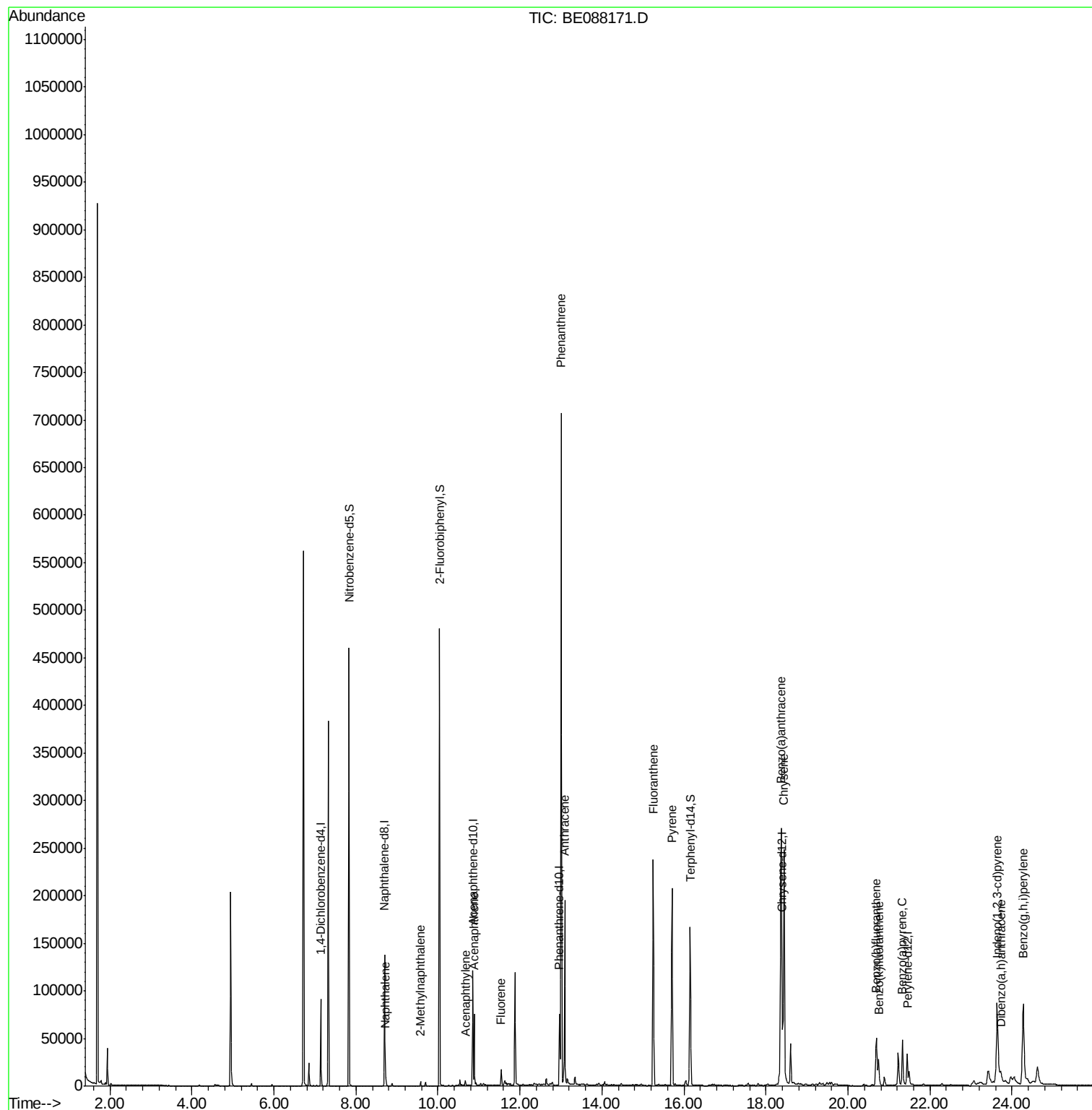
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102114\
Data File : BE088171.D
Acq On : 22 Oct 2014 8:37
Operator : TP/JJ
Sample : F4303-17DL 2X
Misc :
ALS Vial : 29 Sample Multiplier: 1

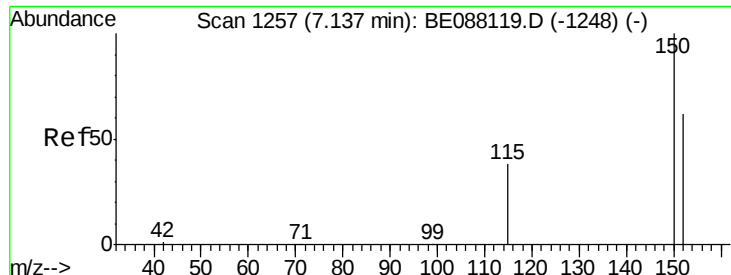
Instrument :
BNA_E
ClientSampleId :
YS19-SB06-1014DL

Manual Integrations
APPROVED

mohammad
10/22/2014 1:56:09 PM

Quant Time: Oct 22 11:16:42 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: BE088171.D

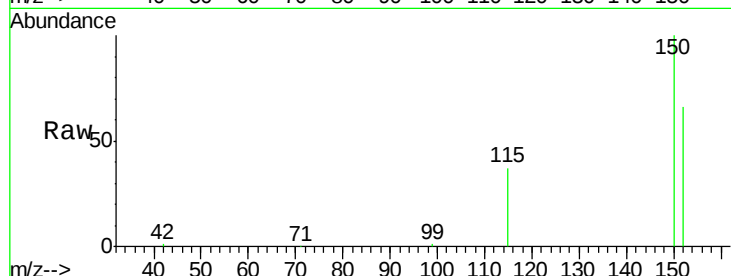
Acq: 22 Oct 2014 8:37

Instrument :

BNA_E

ClientSampleId :

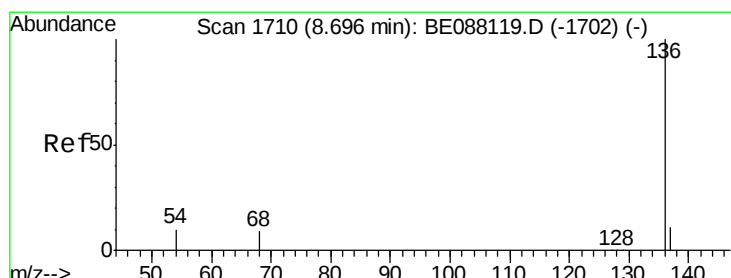
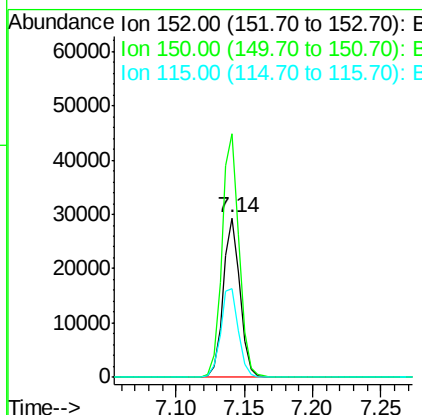
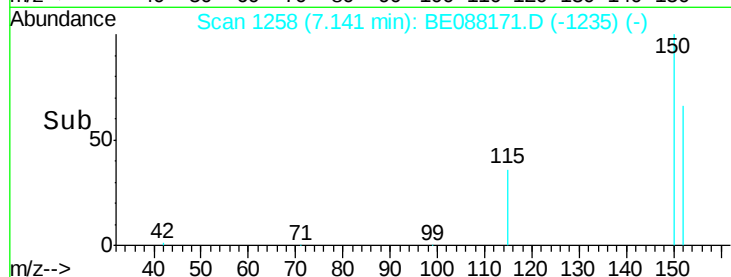
YS19-SB06-1014DL



Tgt Ion:	152	Resp:	24907
Ion Ratio	Lower	Upper	
152	100		
150	152.4	129.2	193.8
115	55.8	49.3	73.9

Manual Integrations
APPROVED

mohammad
10/22/2014 1:56:09 PM



#3

Naphthalene-d8

Concen: 5.00 ng

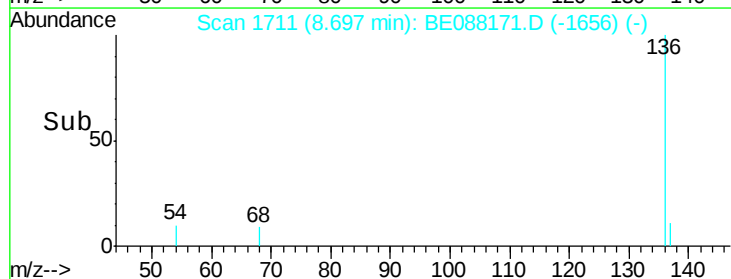
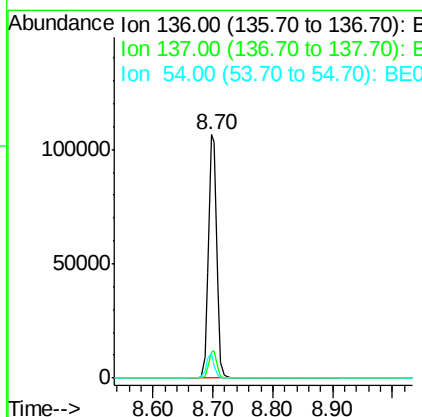
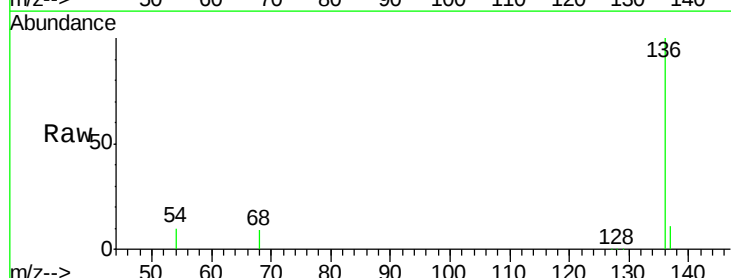
RT: 8.70 min Scan# 1711

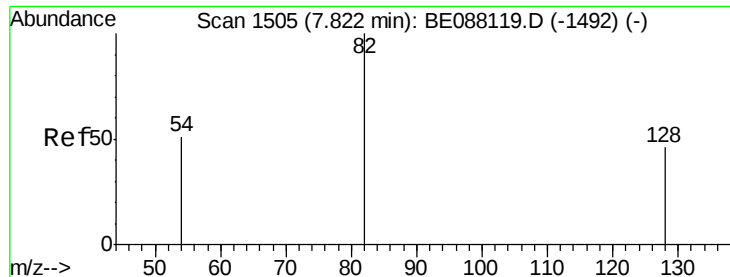
Delta R.T. 0.00 min

Lab File: BE088171.D

Acq: 22 Oct 2014 8:37

Tgt Ion:	136	Resp:	100622
Ion Ratio	Lower	Upper	
136	100		
137	10.6	8.6	12.8
54	10.0	7.7	11.5





#4

Nitrobenzene-d5

Concen: 28.94 ng

RT: 7.83 min Scan# 1509

Delta R.T. 0.01 min

Lab File: BE088171.D

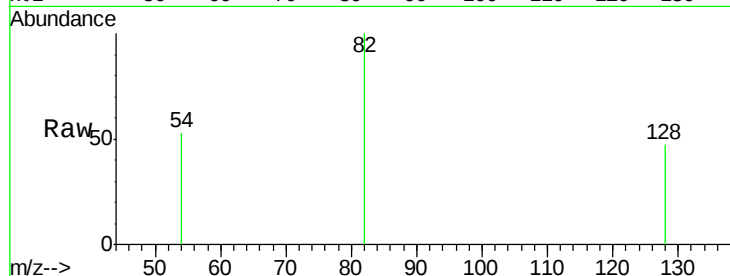
Acq: 22 Oct 2014 8:37

Instrument :

BNA_E

ClientSampleId :

YS19-SB06-1014DL



Tgt Ion: 82 Resp: 209909

Ion Ratio Lower Upper

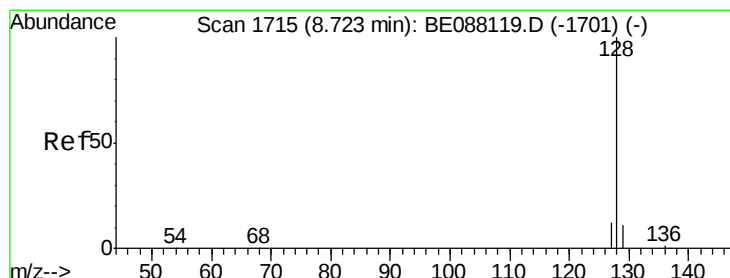
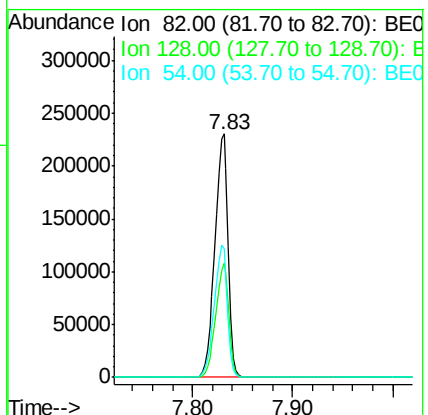
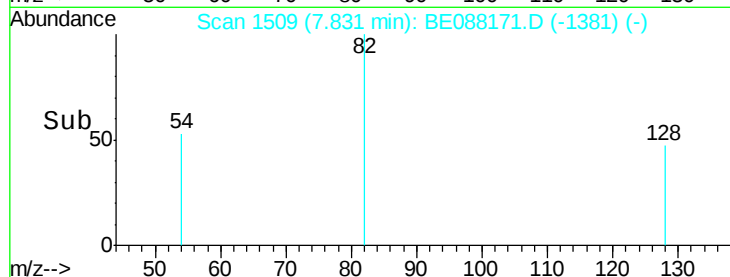
82 100

128 47.0 37.1 55.7

54 52.9 41.1 61.7

Manual Integrations
APPROVED

mohammad
10/22/2014 1:56:09 PM



#5

Naphthalene

Concen: 0.41 ng

RT: 8.72 min Scan# 1716

Delta R.T. 0.00 min

Lab File: BE088171.D

Acq: 22 Oct 2014 8:37

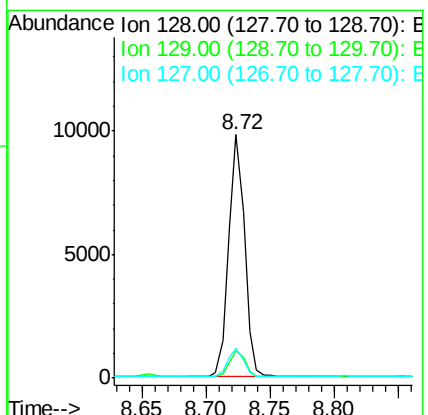
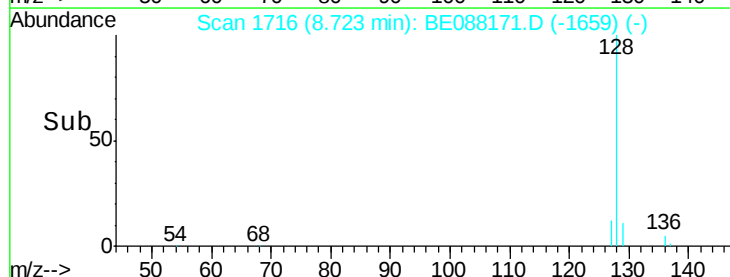
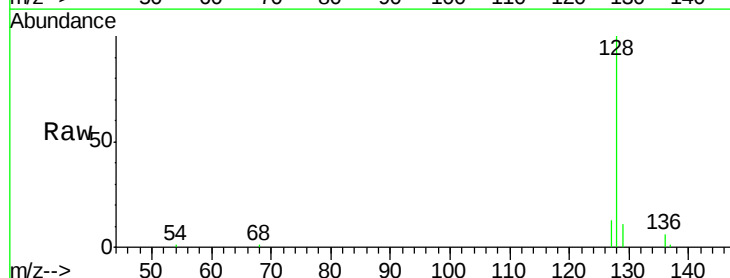
Tgt Ion: 128 Resp: 8450

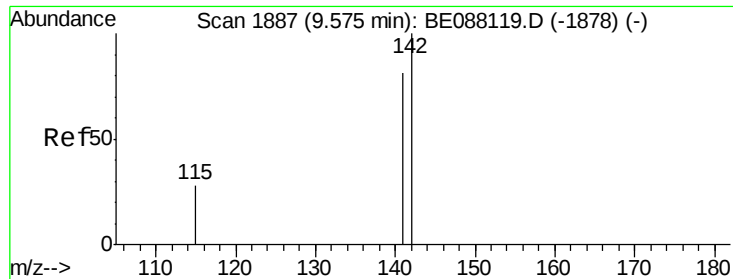
Ion Ratio Lower Upper

128 100

129 11.2 8.9 13.3

127 12.5 9.7 14.5





#6

2-Methylnaphthalene

Concen: 0.17 ng

RT: 9.57 min Scan# 1888

Delta R.T. -0.00 min

Lab File: BE088171.D

Acq: 22 Oct 2014 8:37

Instrument :

BNA_E

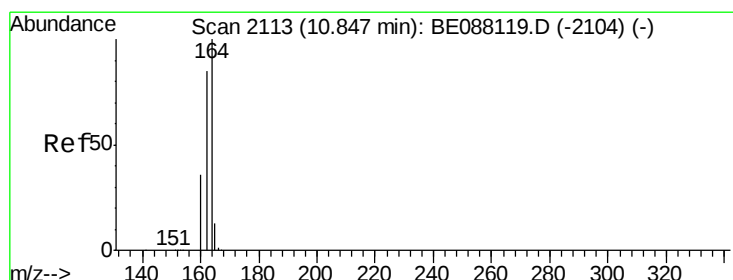
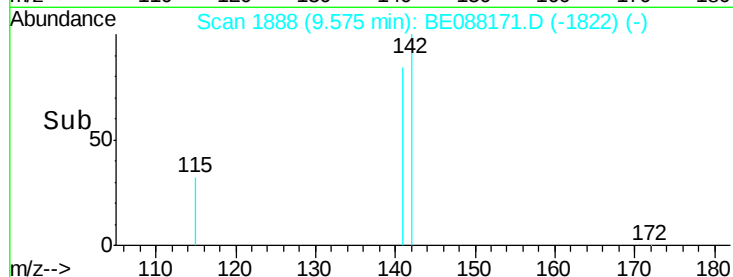
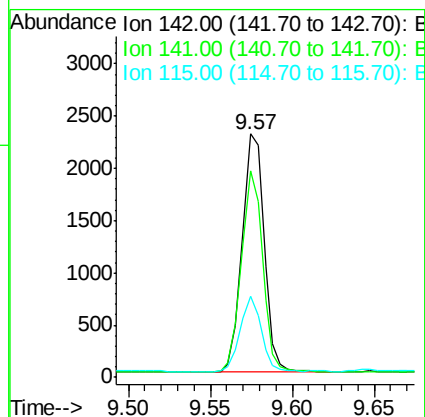
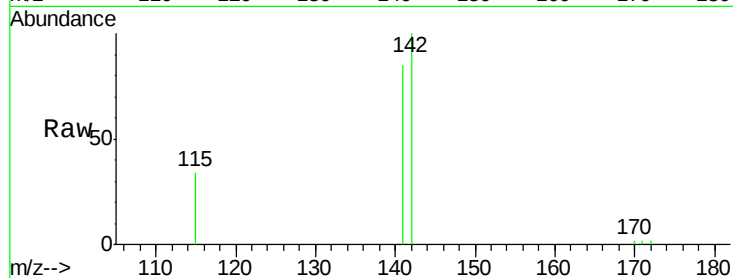
ClientSampleId :

YS19-SB06-1014DL

Tgt Ion:	142	Resp:	2143
Ion Ratio	Lower	Upper	
142	100		
141	84.6	64.6	97.0
115	33.5	22.6	34.0

Manual Integrations
APPROVED

mohammad
10/22/2014 1:56:09 PM



#7

Acenaphthene-d10

Concen: 5.00 ng

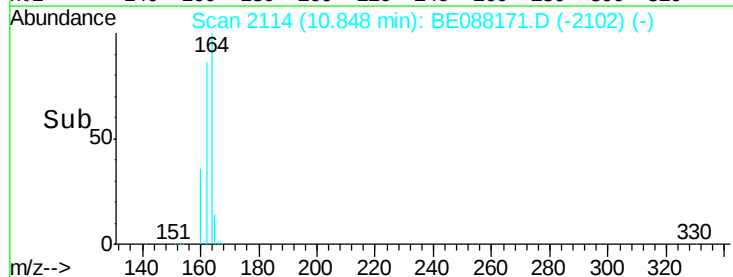
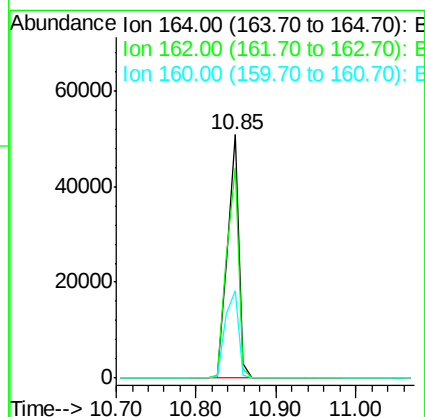
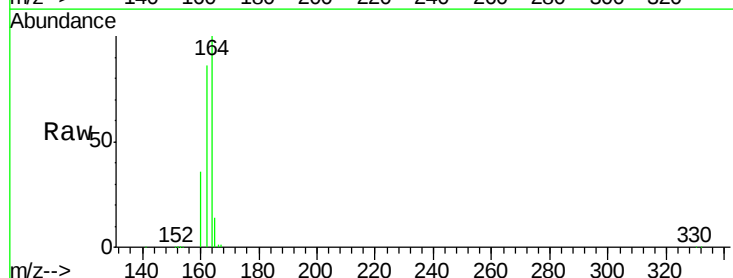
RT: 10.85 min Scan# 2114

Delta R.T. 0.00 min

Lab File: BE088171.D

Acq: 22 Oct 2014 8:37

Tgt Ion:	164	Resp:	51579
Ion Ratio	Lower	Upper	
164	100		
162	86.2	68.3	102.5
160	36.1	28.7	43.1





#8

2-Fluorobiphenyl

Concen: 20.57 ng

RT: 10.04 min Scan# 1990

Delta R.T. 0.00 min

Lab File: BE088171.D

Acq: 22 Oct 2014 8:37

Instrument :

BNA_E

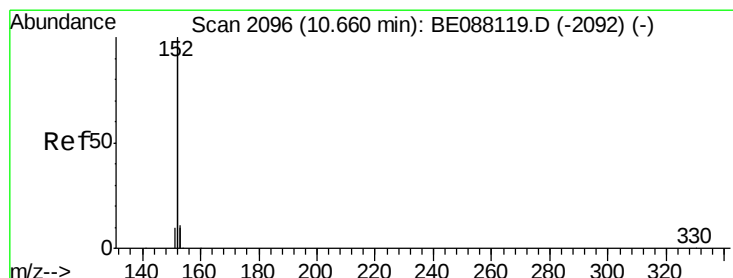
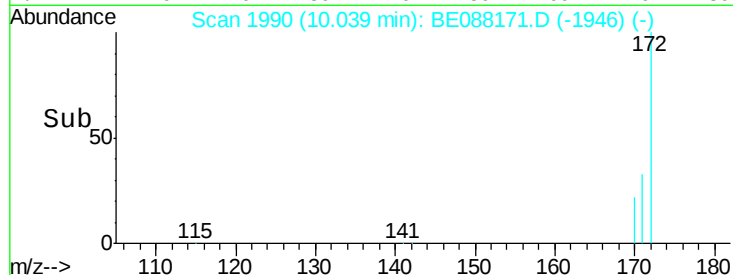
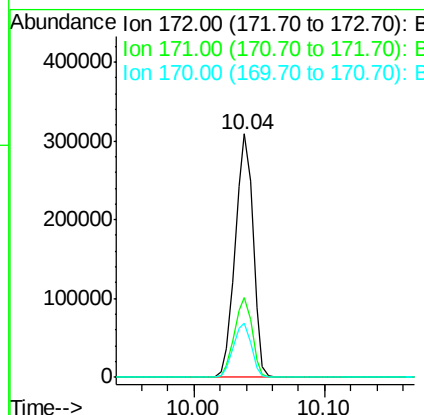
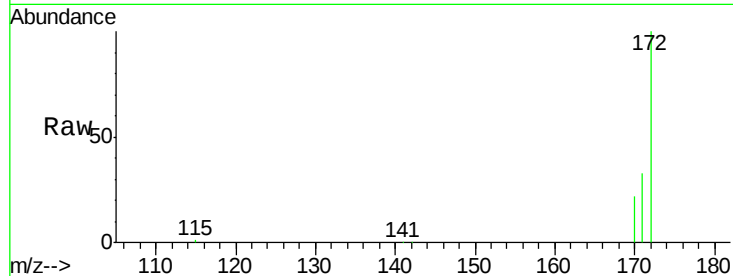
ClientSampleId :

YS19-SB06-1014DL

Tgt Ion:	172	Resp:	293047
Ion Ratio	Lower	Upper	
172	100		
171	32.7	25.4	38.2
170	22.4	17.4	26.2

Manual Integrations
APPROVED

mohammad
10/22/2014 1:56:09 PM



#9

Acenaphthylene

Concen: 0.06 ng

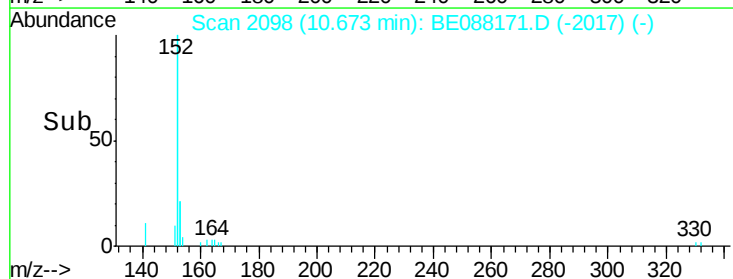
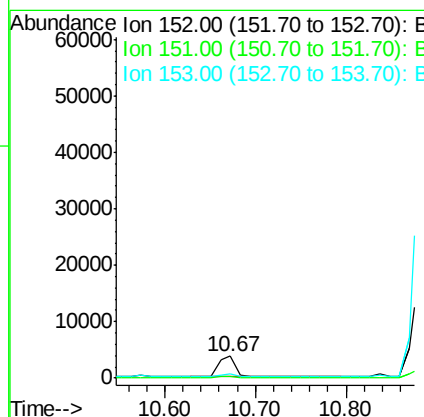
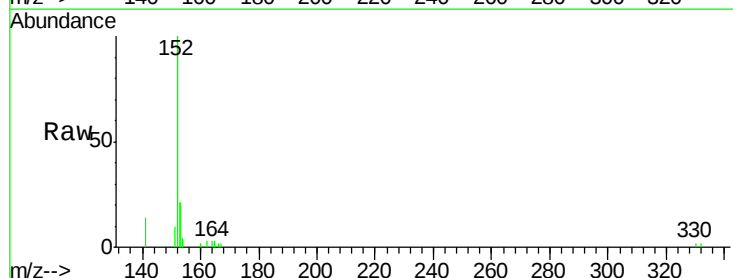
RT: 10.67 min Scan# 2098

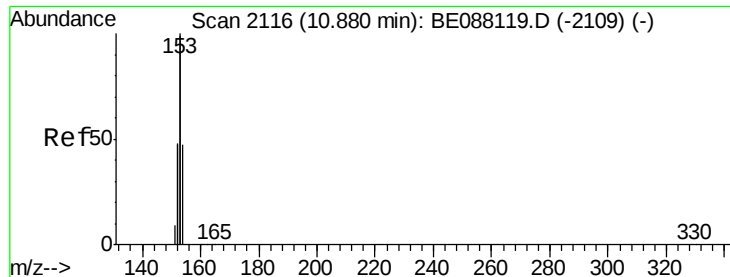
Delta R.T. 0.01 min

Lab File: BE088171.D

Acq: 22 Oct 2014 8:37

Tgt Ion:	152	Resp:	5056
Ion Ratio	Lower	Upper	
152	100		
151	4.8	3.7	5.5
153	0.0	10.4	15.6#





#10

Acenaphthene

Concen: 0.75 ng

RT: 10.88 min Scan# 2117

Delta R.T. 0.00 min

Lab File: BE088171.D

Acq: 22 Oct 2014 8:37

Instrument :

BNA_E

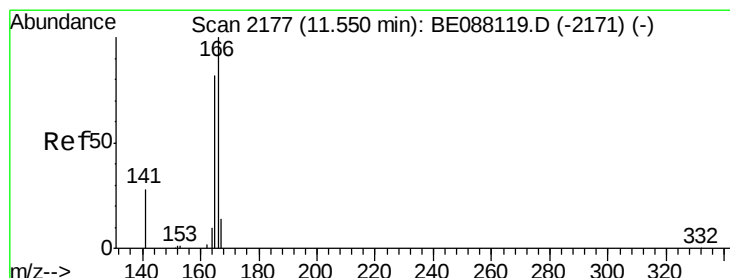
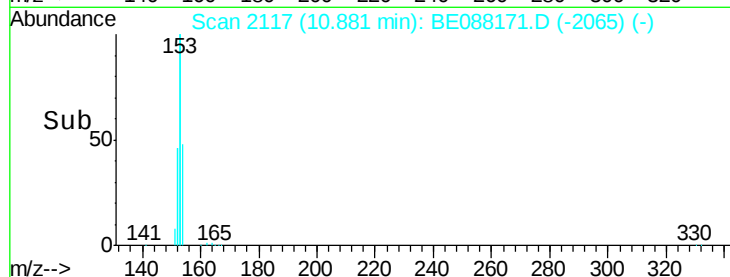
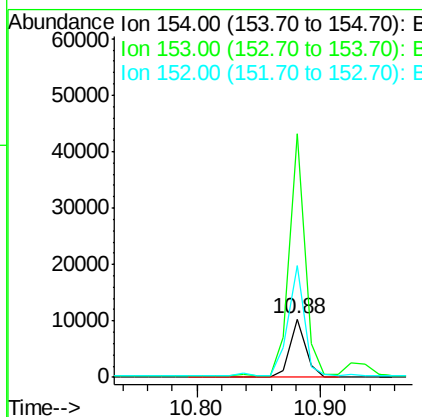
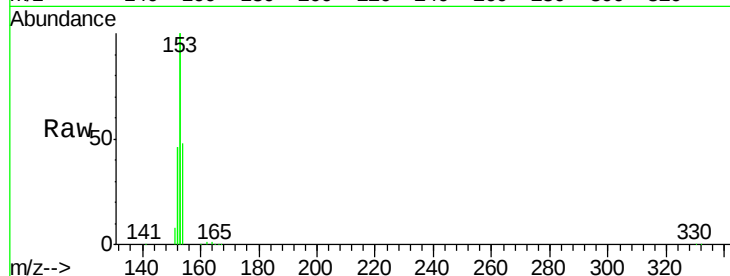
ClientSampleId :

YS19-SB06-1014DL

Manual Integrations
APPROVED

mohammad
10/22/2014 1:56:09 PM

Tgt Ion	Ratio	Lower	Upper
154	100		
153	409.3	327.8	491.6
152	200.4	157.6	236.4



#11

Fluorene

Concen: 0.76 ng

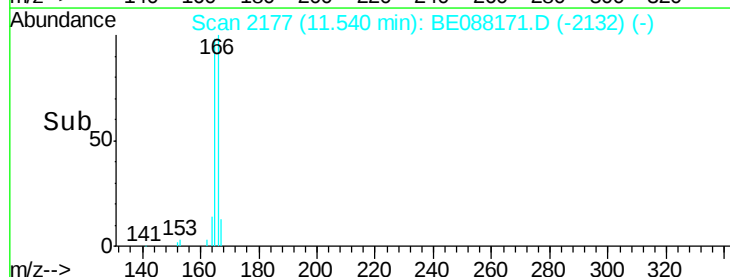
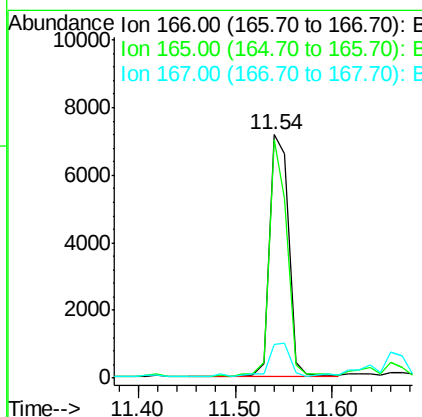
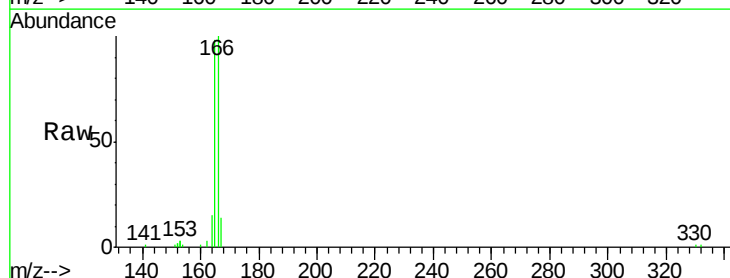
RT: 11.54 min Scan# 2177

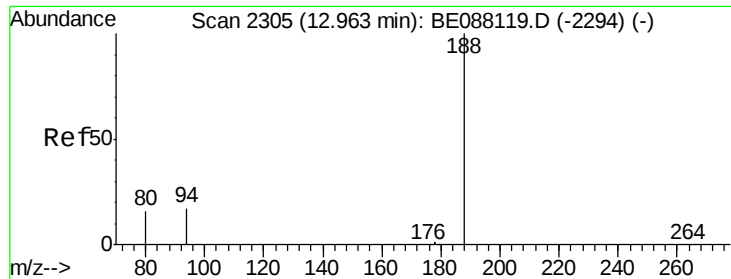
Delta R.T. -0.01 min

Lab File: BE088171.D

Acq: 22 Oct 2014 8:37

Tgt Ion	Ratio	Lower	Upper
166	100		
165	89.9	71.4	107.2
167	14.6	10.6	16.0





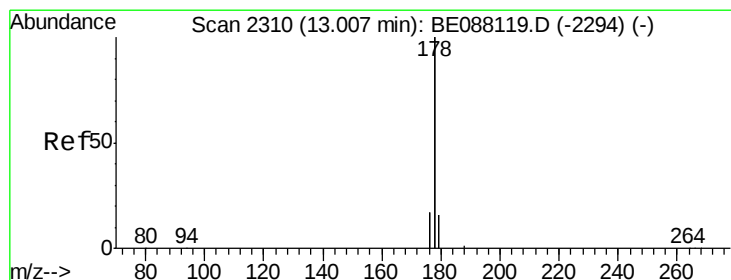
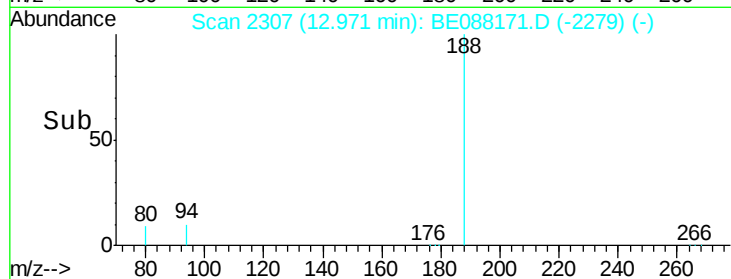
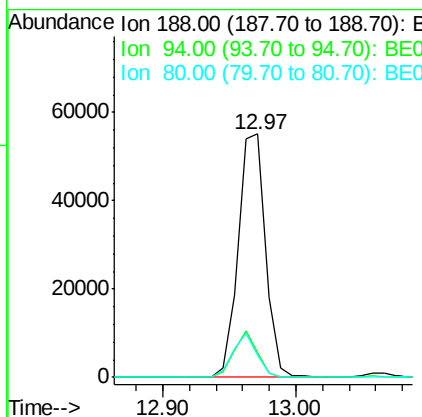
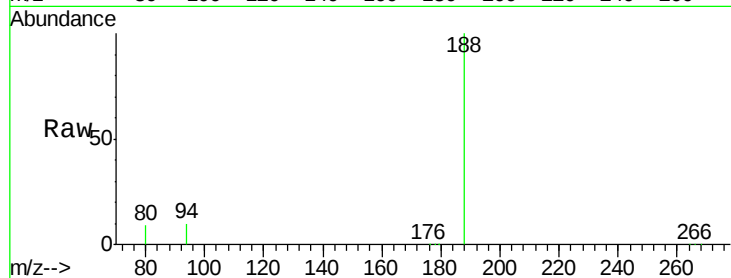
#12
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.97 min Scan# 2307
Delta R.T. 0.01 min
Lab File: BE088171.D
Acq: 22 Oct 2014 8:37

Instrument :
BNA_E
ClientSampleId :
YS19-SB06-1014DL

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	10.3	13.9	20.9#
80	9.1	12.9	19.3#

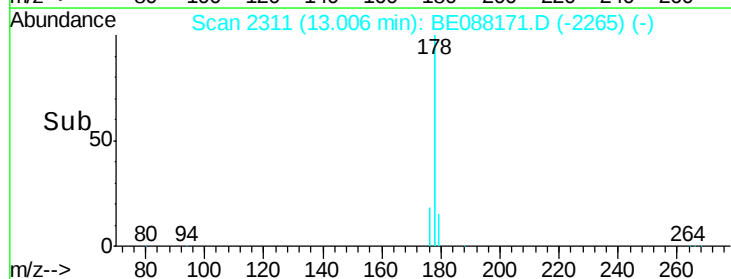
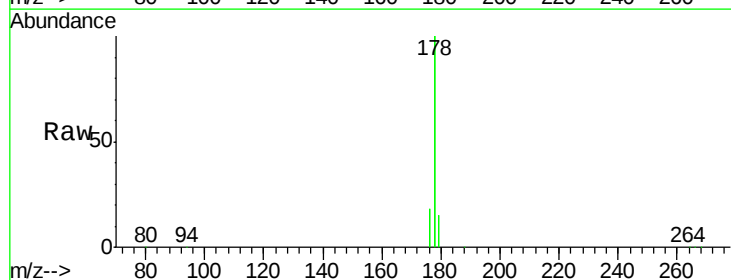
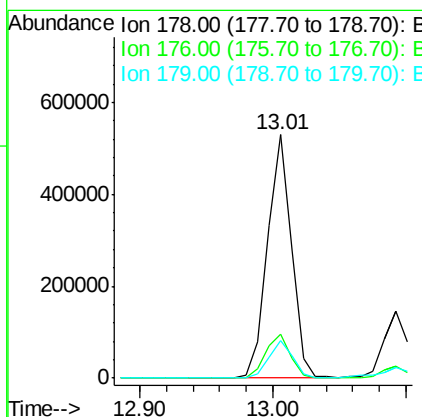
Manual Integrations
APPROVED

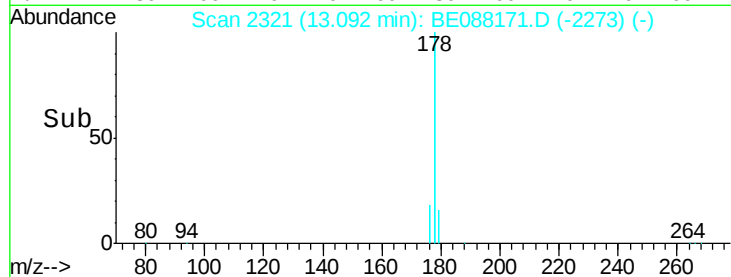
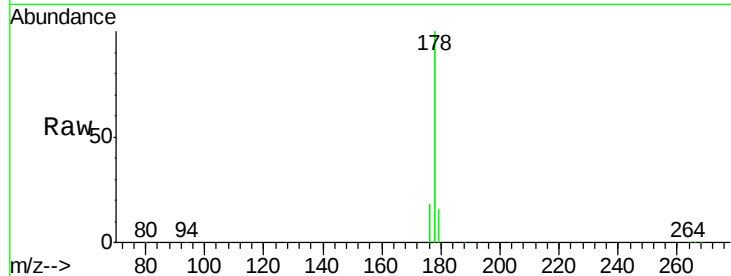
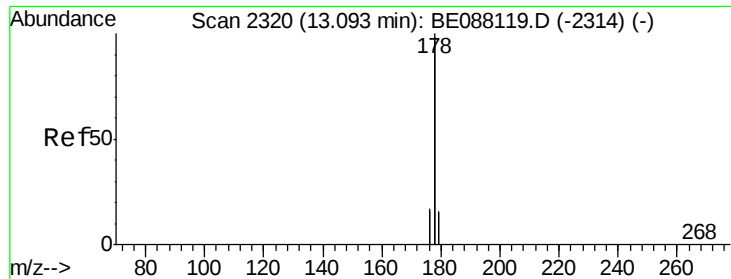
mohammad
10/22/2014 1:56:09 PM



#13
Phenanthrene
Concen: 11.79 ng
RT: 13.01 min Scan# 2311
Delta R.T. -0.00 min
Lab File: BE088171.D
Acq: 22 Oct 2014 8:37

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	18.6	12.5	18.7
179	15.3	13.5	20.3





#14

Anthracene

Concen: 2.98 ng m

RT: 13.09 min Scan# 2321

Delta R.T. -0.00 min

Lab File: BE088171.D

Acq: 22 Oct 2014 8:37

Tgt Ion:	178	Resp:	181237
Ion Ratio	Lower	Upper	
178	100		
176	67.8	14.6	21.8#
179	55.6	12.5	18.7#

Instrument :

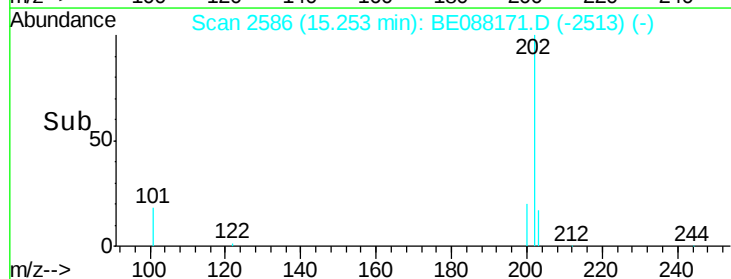
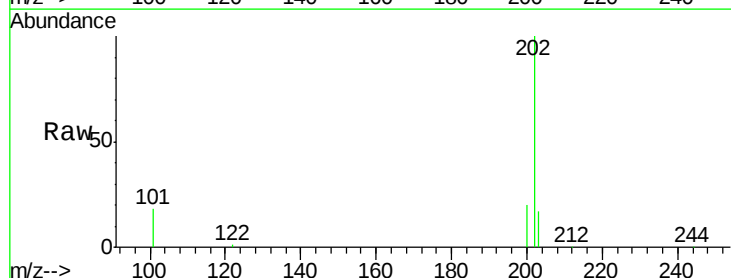
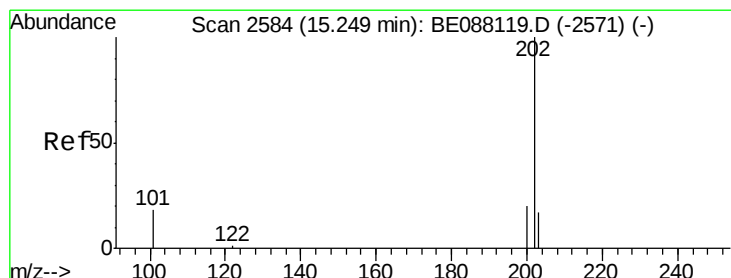
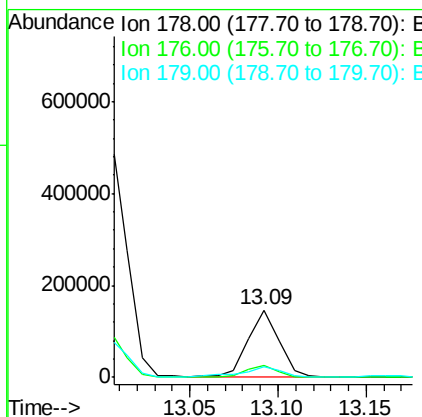
BNA_E

ClientSampleId :

YS19-SB06-1014DL

Manual Integrations
APPROVED

mohammad
10/22/2014 1:56:09 PM



#15

Fluoranthene

Concen: 15.89 ng

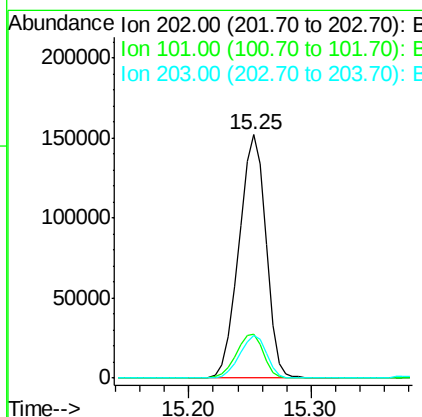
RT: 15.25 min Scan# 2586

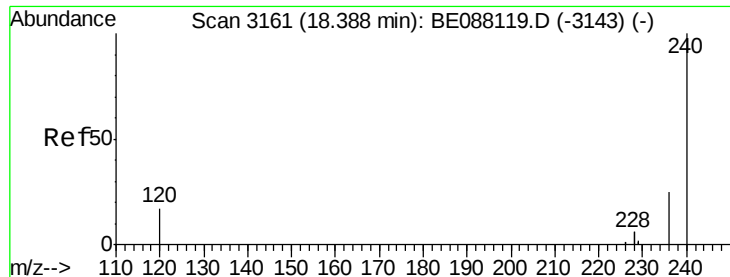
Delta R.T. 0.00 min

Lab File: BE088171.D

Acq: 22 Oct 2014 8:37

Tgt Ion:	202	Resp:	235799
Ion Ratio	Lower	Upper	
202	100		
101	18.3	14.8	22.2
203	17.4	13.5	20.3





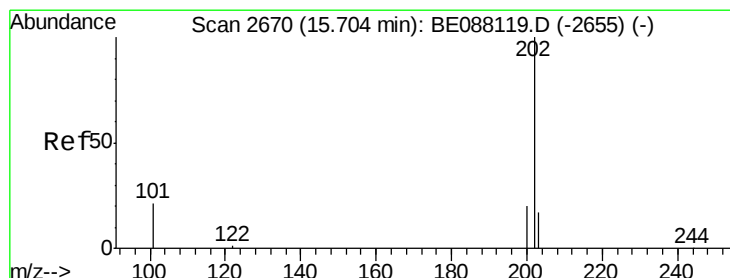
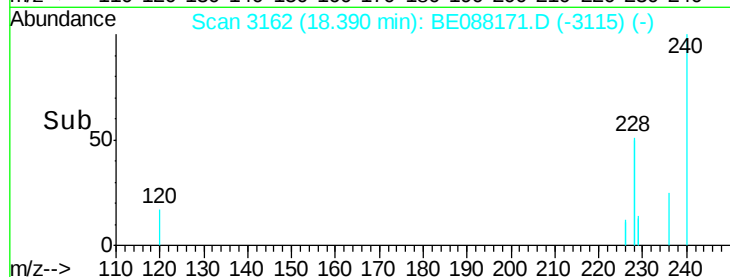
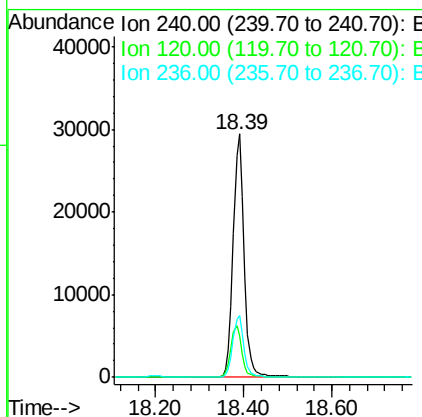
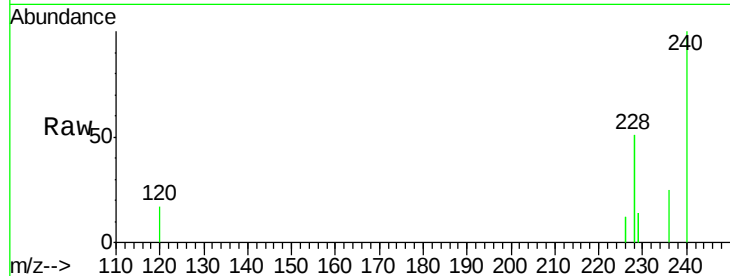
#16
Chrysene-d12
Concen: 5.00 ng
RT: 18.39 min Scan# 3162
Delta R.T. 0.00 min
Lab File: BE088171.D
Acq: 22 Oct 2014 8:37

Instrument :
BNA_E
ClientSampleId :
YS19-SB06-1014DL

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	50790		
120	16.8	13.9	20.9	
236	25.2	19.9	29.9	

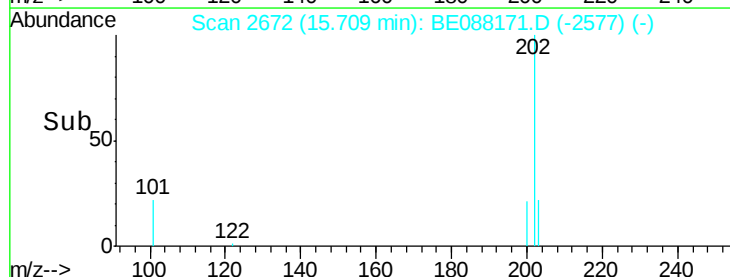
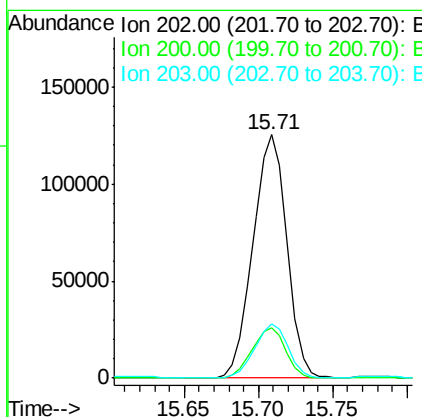
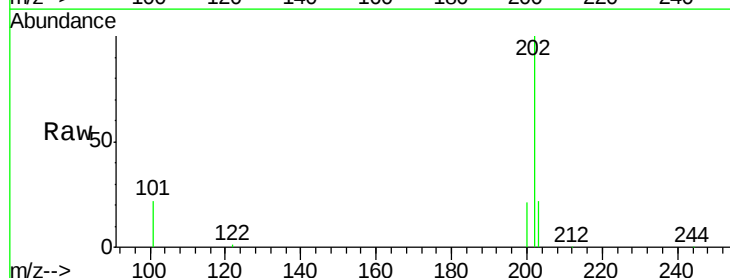
Manual Integrations
APPROVED

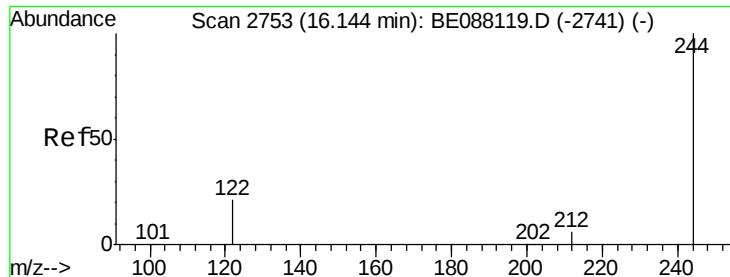
mohammad
10/22/2014 1:56:09 PM



#17
Pyrene
Concen: 14.40 ng m
RT: 15.71 min Scan# 2672
Delta R.T. 0.00 min
Lab File: BE088171.D
Acq: 22 Oct 2014 8:37

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	198793		
200	23.8	16.1	24.1	
203	20.4	13.9	20.9	





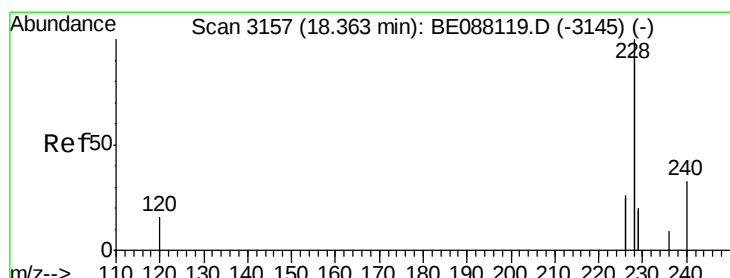
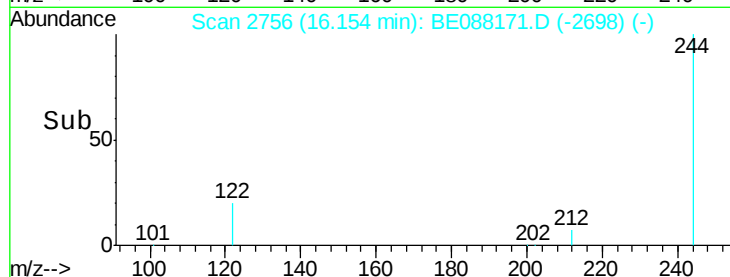
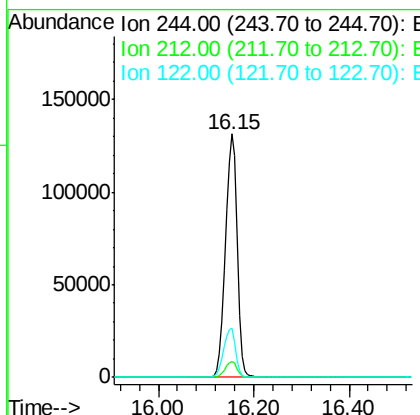
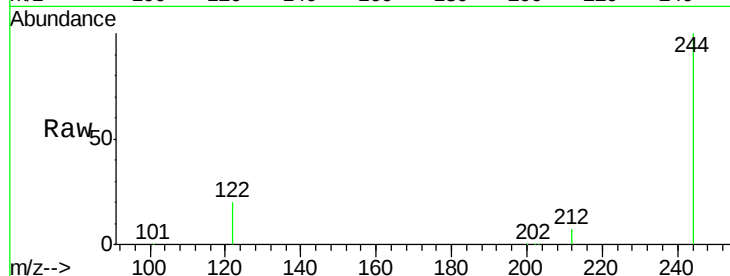
#18
 Terphenyl-d14
 Concen: 27.07 ng
 RT: 16.15 min Scan# 2756
 Delta R.T. 0.01 min
 Lab File: BE088171.D
 Acq: 22 Oct 2014 8:37

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB06-1014DL

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	6.6	5.4	8.0
122	20.0	17.5	26.3

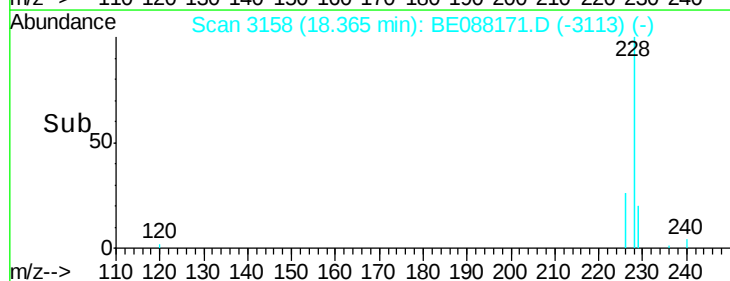
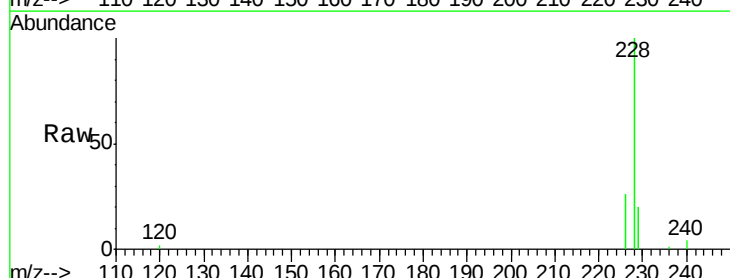
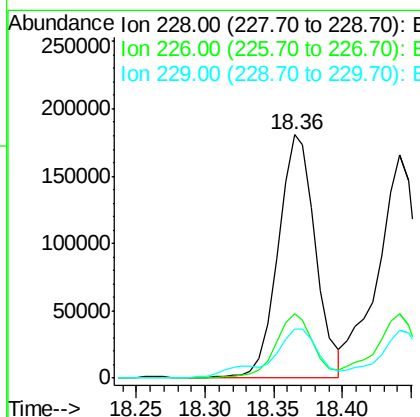
Manual Integrations
 APPROVED

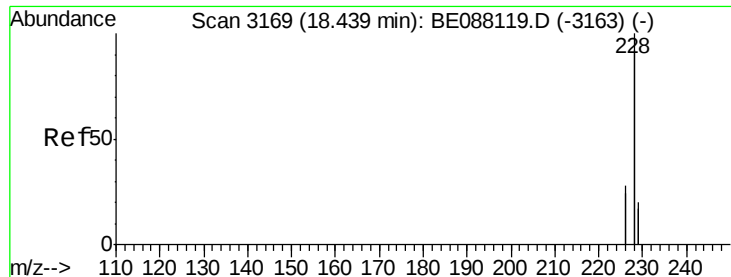
mohammad
 10/22/2014 1:56:09 PM



#19
 Benzo(a)anthracene
 Concen: 7.55 ng
 RT: 18.36 min Scan# 3158
 Delta R.T. 0.00 min
 Lab File: BE088171.D
 Acq: 22 Oct 2014 8:37

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	26.3	20.8	31.2
229	20.2	15.6	23.4





#20

Chrysene

Concen: 7.56 ng

RT: 18.44 min Scan# 3170

Delta R.T. 0.00 min

Lab File: BE088171.D

Acq: 22 Oct 2014 8:37

Instrument :

BNA_E

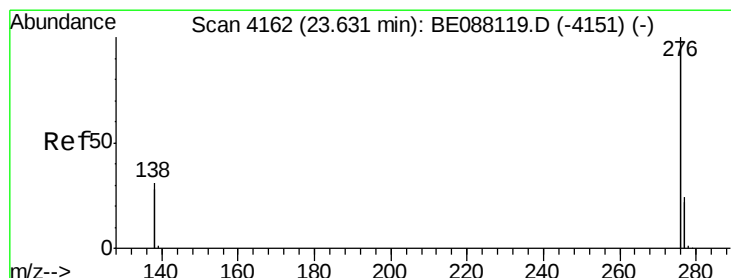
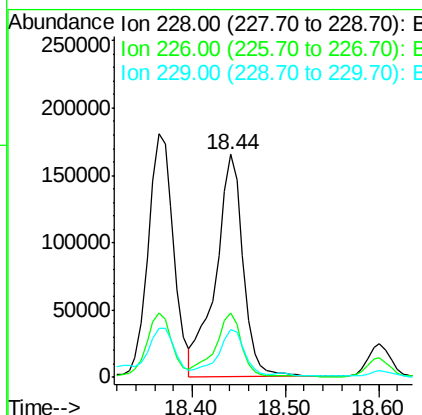
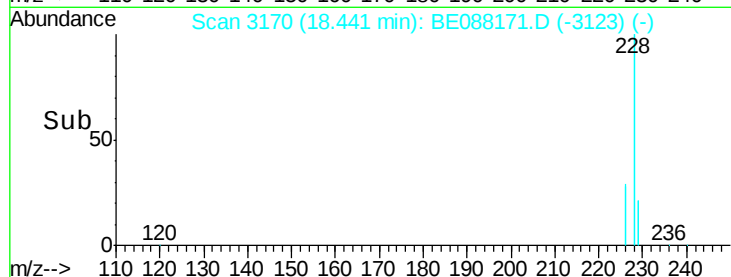
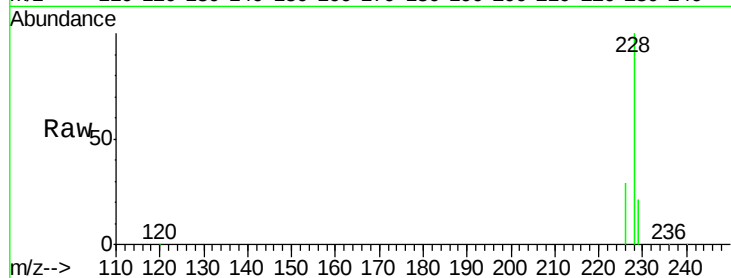
ClientSampleId :

YS19-SB06-1014DL

Tgt Ion:	228	Resp:	334932
Ion Ratio	Lower	Upper	
228	100		
226	28.7	22.7	34.1
229	21.3	15.8	23.6

Manual Integrations
APPROVED

mohammad
10/22/2014 1:56:09 PM



#21

Indeno(1,2,3-cd)pyrene

Concen: 3.60 ng

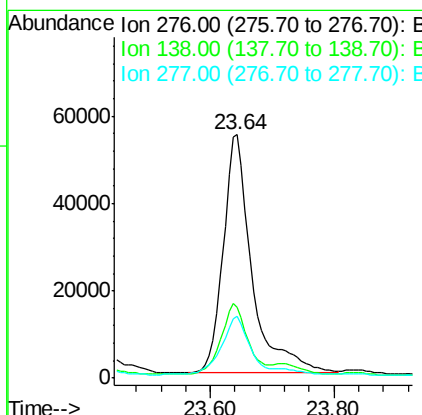
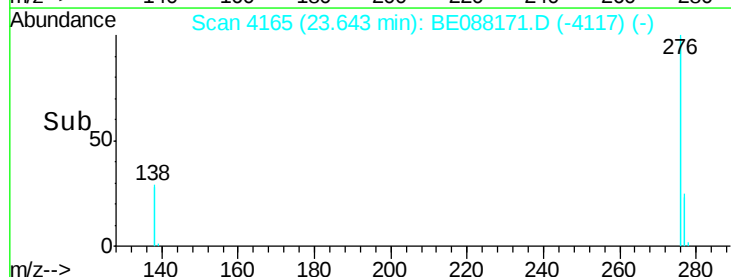
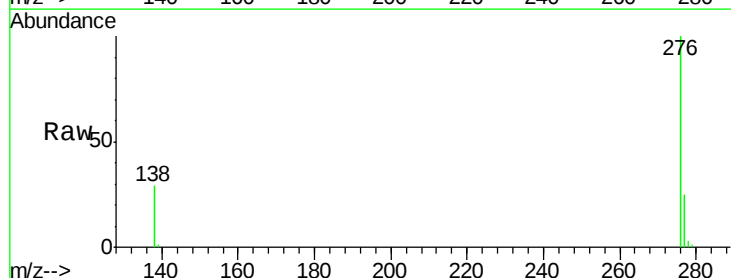
RT: 23.64 min Scan# 4165

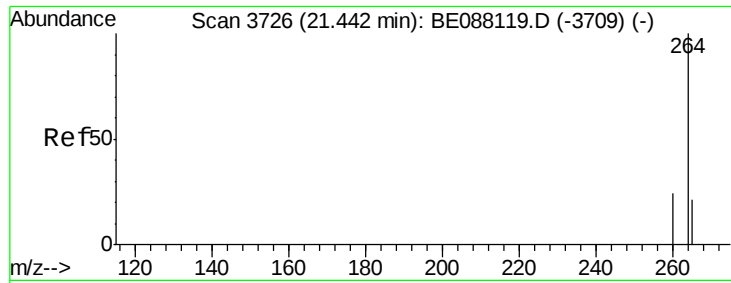
Delta R.T. 0.01 min

Lab File: BE088171.D

Acq: 22 Oct 2014 8:37

Tgt Ion:	276	Resp:	177254
Ion Ratio	Lower	Upper	
276	100		
138	26.9	18.5	27.7
277	25.7	14.6	21.8#





#22

Perylene-d12

Concen: 5.00 ng

RT: 21.45 min Scan# 3728

Delta R.T. 0.00 min

Lab File: BE088171.D

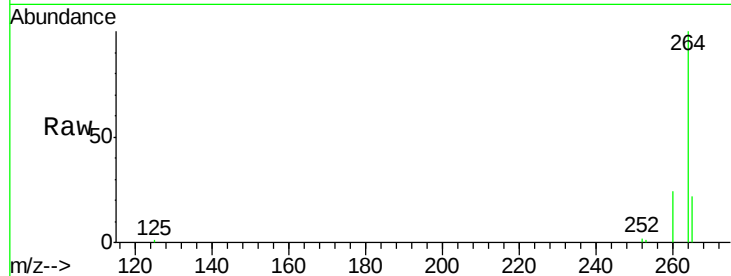
Acq: 22 Oct 2014 8:37

Instrument :

BNA_E

ClientSampleId :

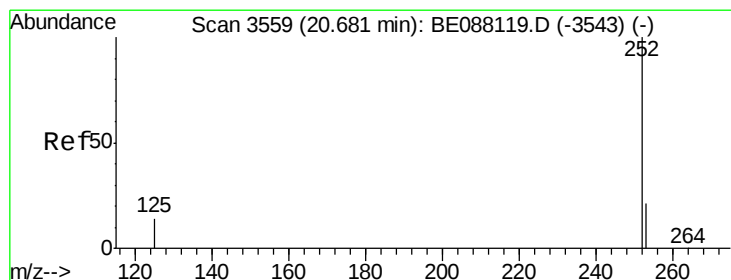
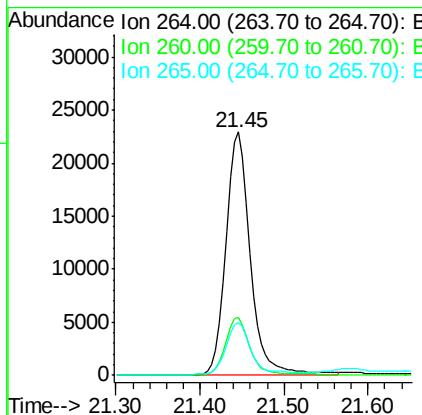
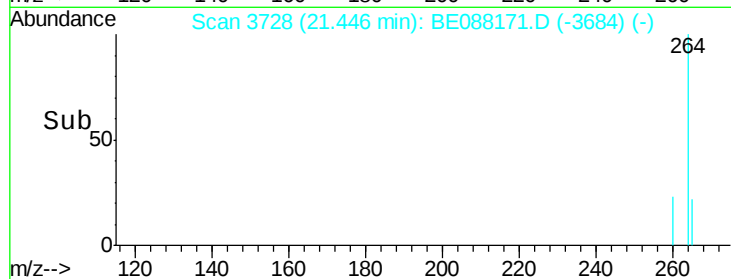
YS19-SB06-1014DL



Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.0	28.4
265	21.8	17.2	25.8

Manual Integrations
APPROVED

mohammad
10/22/2014 1:56:09 PM



#23

Benzo(b)fluoranthene

Concen: 8.25 ng

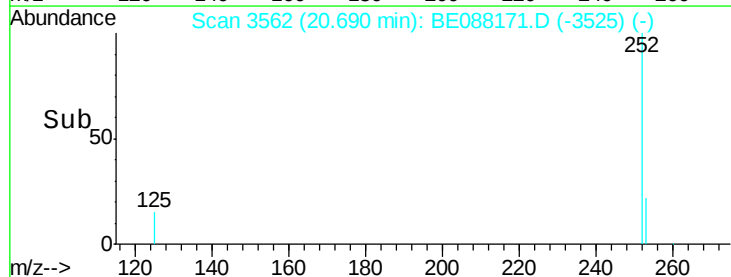
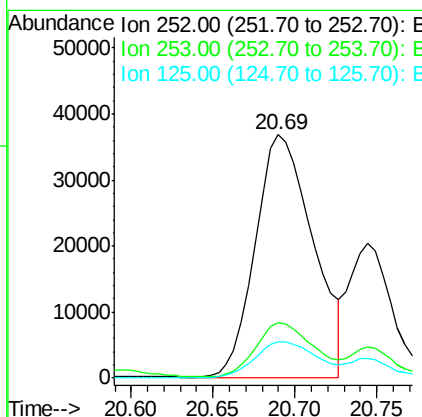
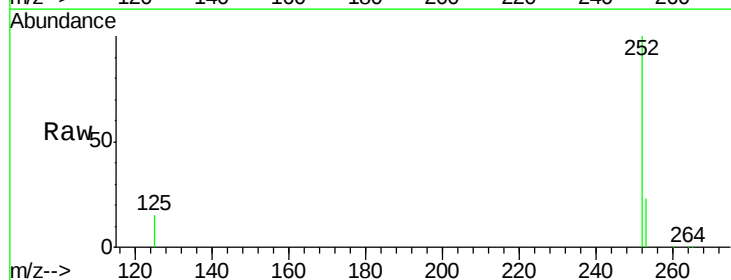
RT: 20.69 min Scan# 3562

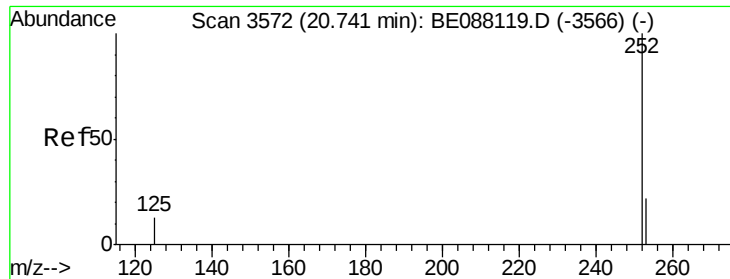
Delta R.T. 0.01 min

Lab File: BE088171.D

Acq: 22 Oct 2014 8:37

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.4	26.0
125	14.9	11.8	17.8





#24

Benzo(k)fluoranthene

Concen: 3.31 ng

RT: 20.74 min Scan# 3574

Delta R.T. 0.00 min

Lab File: BE088171.D

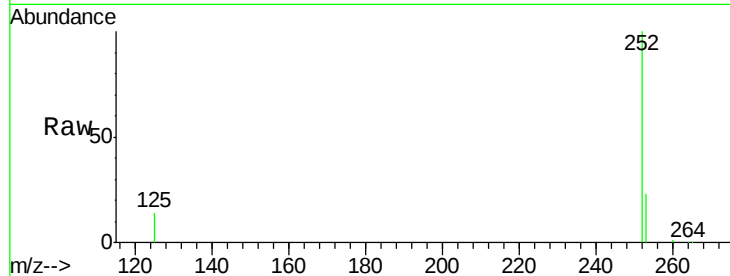
Acq: 22 Oct 2014 8:37

Instrument :

BNA_E

ClientSampleId :

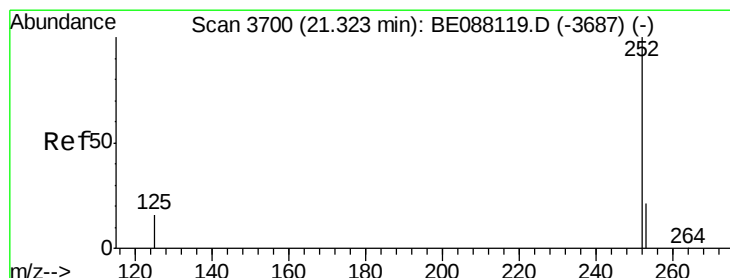
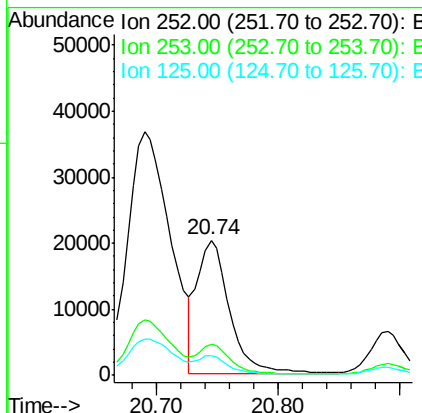
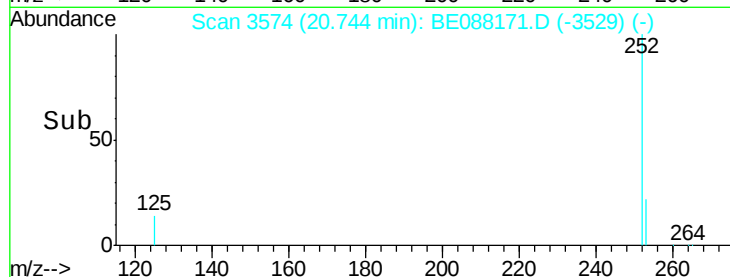
YS19-SB06-1014DL



Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.6	26.4
125	14.4	11.5	17.3

Manual Integrations
APPROVED

mohammad
10/22/2014 1:56:09 PM



#25

Benzo(a)pyrene

Concen: 6.60 ng

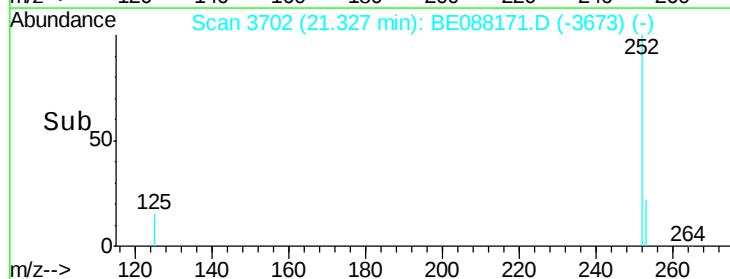
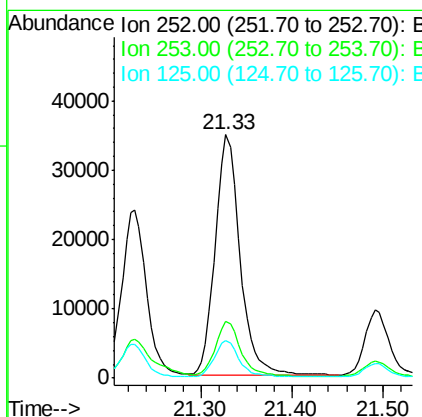
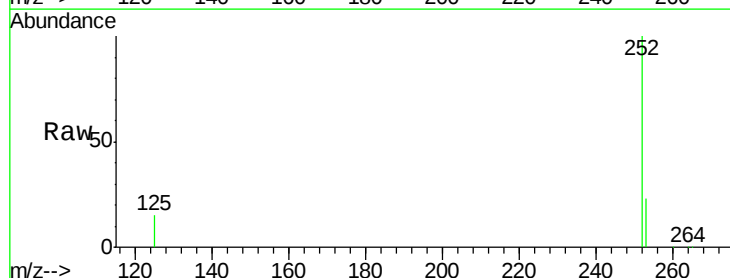
RT: 21.33 min Scan# 3702

Delta R.T. 0.00 min

Lab File: BE088171.D

Acq: 22 Oct 2014 8:37

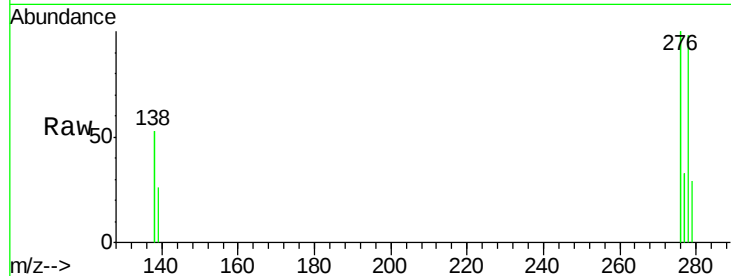
Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.5	26.3
125	15.3	13.0	19.6





#26
Dibenzo(a,h)anthracene
Concen: 0.86 ng
RT: 23.73 min Scan# 4178
Delta R.T. -0.00 min
Lab File: BE088171.D
Acq: 22 Oct 2014 8:37

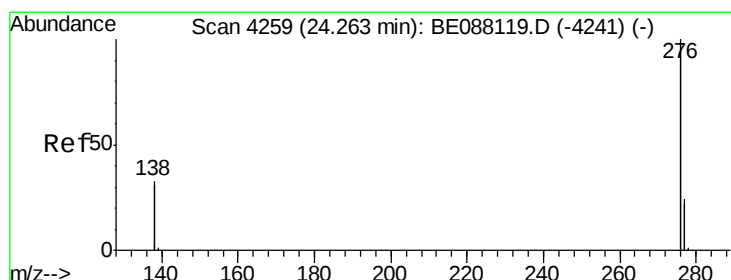
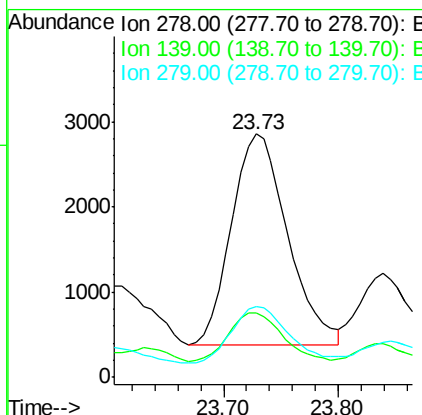
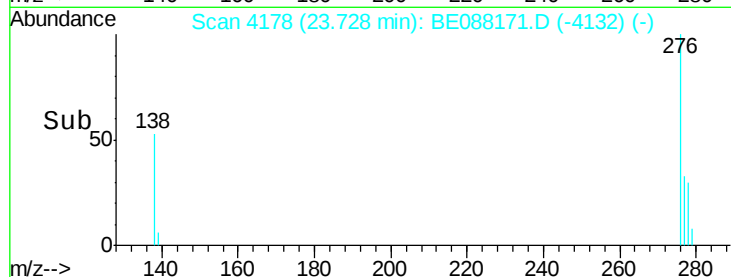
Instrument :
BNA_E
ClientSampleId :
YS19-SB06-1014DL



Tgt Ion	Ratio	Lower	Upper
278	100		
139	26.5	20.9	31.3
279	29.3	19.8	29.8

Manual Integrations
APPROVED

mohammad
10/22/2014 1:56:09 PM



#27
Benzo(g,h,i)perylene
Concen: 4.10 ng
RT: 24.28 min Scan# 4262
Delta R.T. 0.01 min
Lab File: BE088171.D
Acq: 22 Oct 2014 8:37

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.3	19.2	28.8
138	31.4	26.6	40.0

