

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088446.D
 Acq On : 1 Nov 2014 5:18
 Operator : TP/JJ
 Sample : F4379-01
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS32-1014

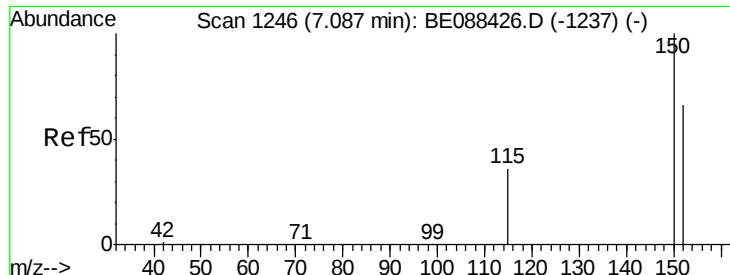
Manual Integrations
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 11/4/2014 9:06:59 AM

Quant Time: Nov 01 05:59:43 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE103114.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Nov 01 00:42:07 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.09	152	40493	5.00	ng	0.00
3) Naphthalene-d8	8.65	136	136582	5.00	ng	0.00
7) Acenaphthene-d10	10.79	164	51013	5.00	ng	0.00
12) Phenanthrene-d10	12.91	188	87376	5.00	ng	0.00
16) Chrysene-d12	18.33	240	45948	5.00	ng	0.01
22) Perylene-d12	21.39	264	43751	5.00	ng	0.01
System Monitoring Compounds						
4) Nitrobenzene-d5	7.79	82	676468	67.54	ng	0.02
8) 2-Fluorobiphenyl	10.00	172	723885	50.34	ng	0.01
18) Terphenyl-d14	16.10	244	417014	49.40	ng	0.03
Target Compounds						Qvalue
5) Naphthalene	8.68	128	6082	0.22	ng	97
6) 2-Methylnaphthalene	9.53	142	2302	0.13	ng	# 94
9) Acenaphthylene	10.62	152	34223	0.41	ng	97
10) Acenaphthene	10.84	154	7669	0.63	ng	93
11) Fluorene	11.50	166	9250	0.71	ng	98
13) Phenanthrene	12.95	178	806282	10.16	ng	99
14) Anthracene	13.03	178	131687m	2.05	ng	
15) Fluoranthene	15.19	202	224668	17.43	ng	99
17) Pyrene	15.64	202	188528	12.58	ng	96
19) Benzo(a)anthracene	18.31	228	372403	8.61	ng	98
20) Chrysene	18.38	228	399114	9.40	ng	96
21) Indeno(1,2,3-cd)pyrene	23.57	276	234503m	5.93	ng	
23) Benzo(b)fluoranthene	20.64	252	115281	12.02	ng	98
24) Benzo(k)fluoranthene	20.69	252	41885	3.96	ng	98
25) Benzo(a)pyrene	21.27	252	76883	8.35	ng	99
26) Dibenzo(a,h)anthracene	23.66	278	13937m	1.63	ng	
27) Benzo(g,h,i)perylene	24.20	276	222800	5.68	ng	99

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



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.09 min Scan# 1247

Delta R.T. 0.00 min

Lab File: BE088446.D

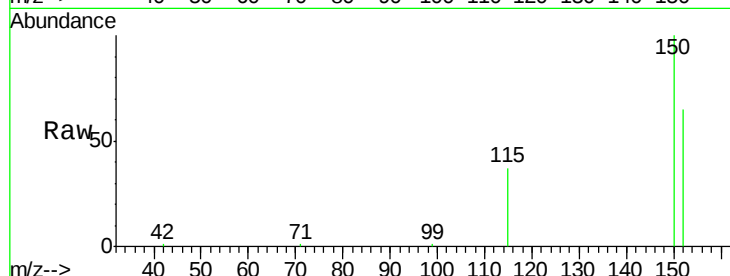
Acq: 1 Nov 2014 5:18

Instrument :

BNA_E

ClientSampleId :

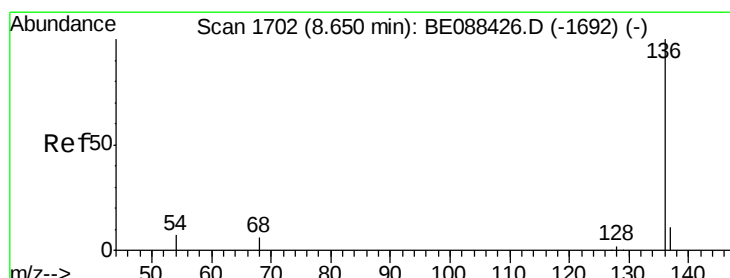
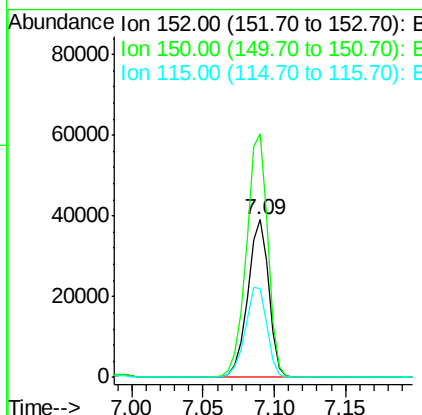
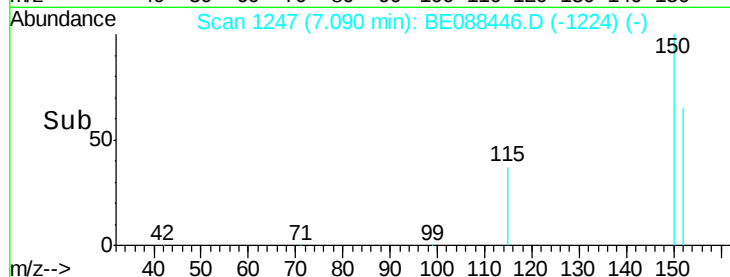
YS19-SS32-1014



Tgt Ion:	152	Resp:	40493
Ion Ratio	Lower	Upper	
152	100		
150	154.6	121.8	182.8
115	56.7	43.9	65.9

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#3

Naphthalene-d8

Concen: 5.00 ng

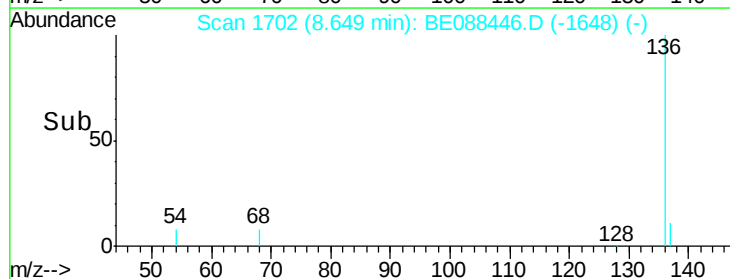
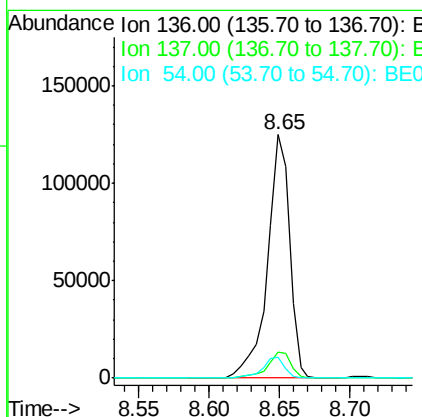
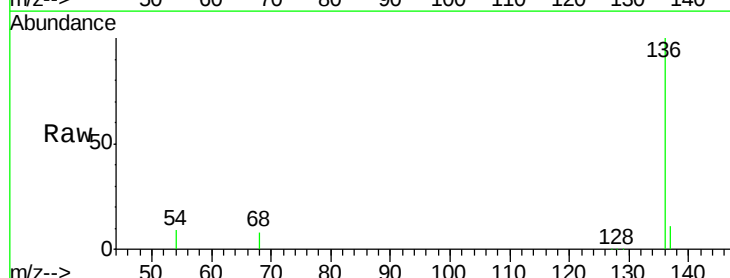
RT: 8.65 min Scan# 1702

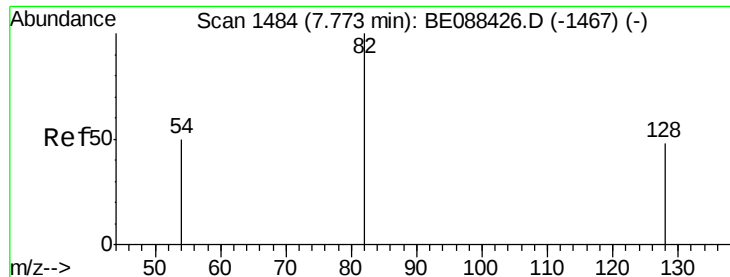
Delta R.T. -0.00 min

Lab File: BE088446.D

Acq: 1 Nov 2014 5:18

Tgt Ion:	136	Resp:	136582
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.8	13.2
54	8.8	5.3	7.9#





#4

Nitrobenzene-d5

Concen: 67.54 ng

RT: 7.79 min Scan# 1492

Delta R.T. 0.02 min

Lab File: BE088446.D

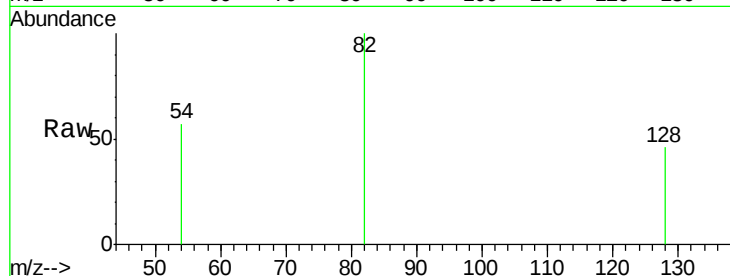
Acq: 1 Nov 2014 5:18

Instrument :

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ClientSampleId :

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Tgt Ion: 82 Resp: 676468

Ion Ratio Lower Upper

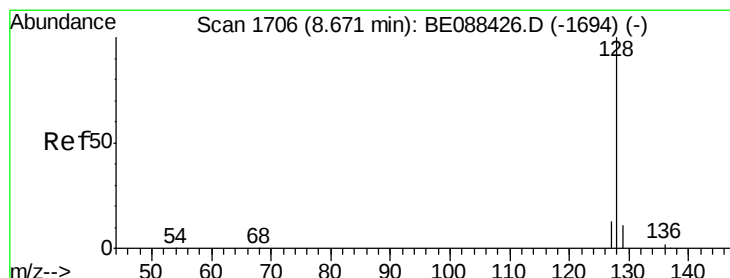
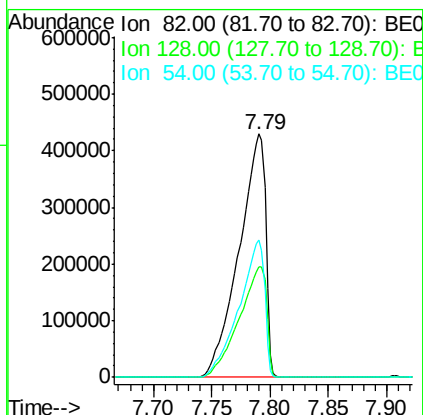
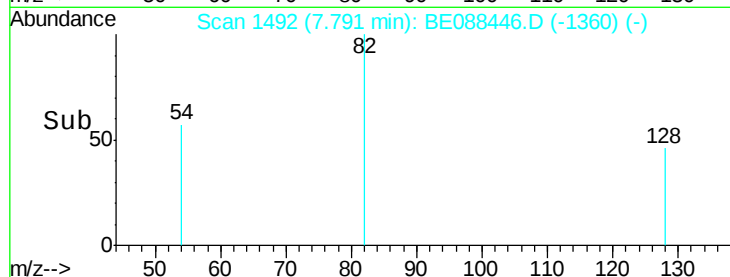
82 100

128 45.5 38.4 57.6

54 56.6 40.2 60.2

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#5

Naphthalene

Concen: 0.22 ng

RT: 8.68 min Scan# 1707

Delta R.T. 0.00 min

Lab File: BE088446.D

Acq: 1 Nov 2014 5:18

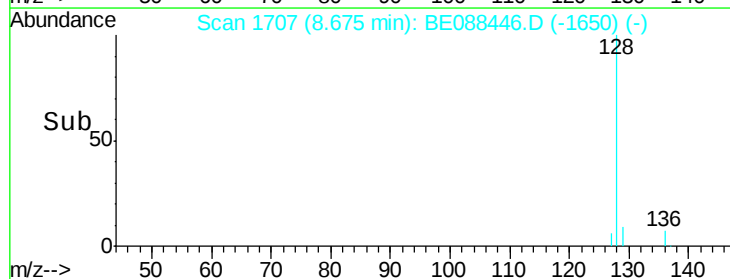
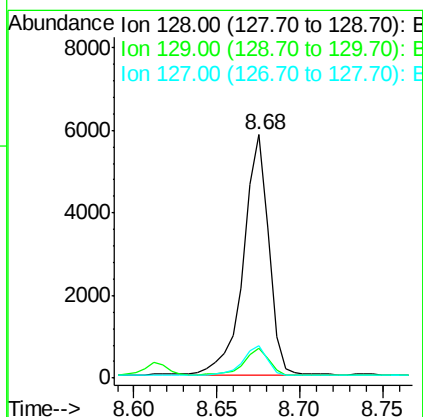
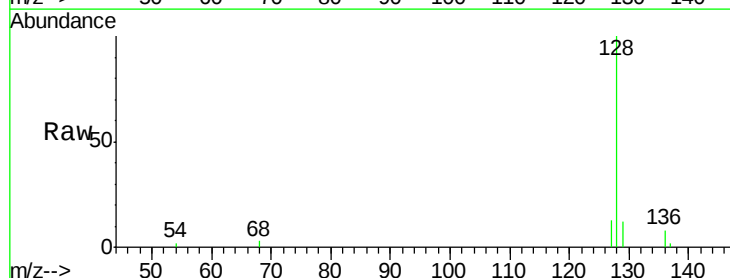
Tgt Ion: 128 Resp: 6082

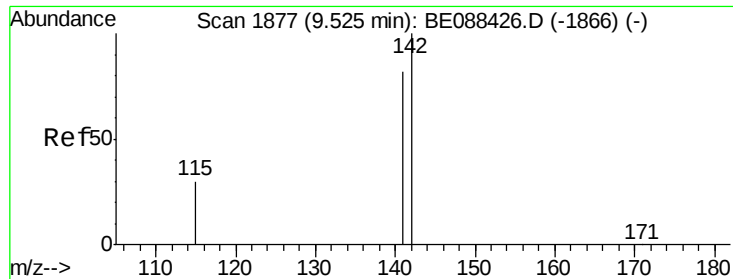
Ion Ratio Lower Upper

128 100

129 12.2 8.6 12.8

127 13.1 10.1 15.1





#6

2-Methylnaphthalene

Concen: 0.13 ng

RT: 9.53 min Scan# 1877

Delta R.T. 0.00 min

Lab File: BE088446.D

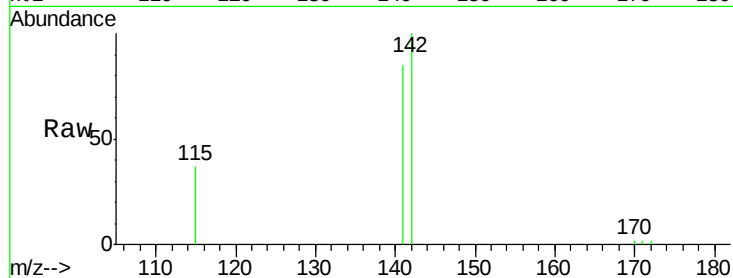
Acq: 1 Nov 2014 5:18

Instrument :

BNA_E

ClientSampleId :

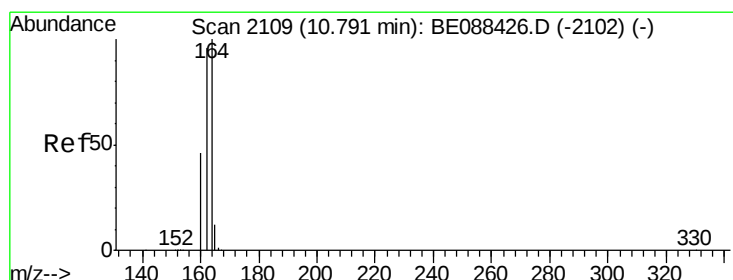
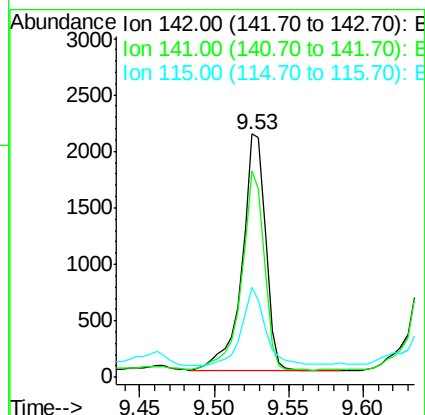
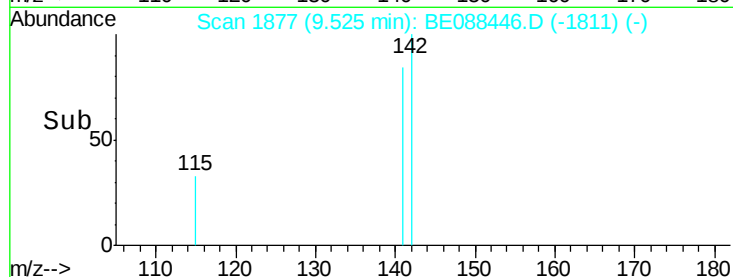
YS19-SS32-1014



Tgt Ion:	142	Resp:	2302
Ion Ratio	Lower	Upper	
142	100		
141	85.0	65.8	98.8
115	37.2	24.2	36.4

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#7

Acenaphthene-d10

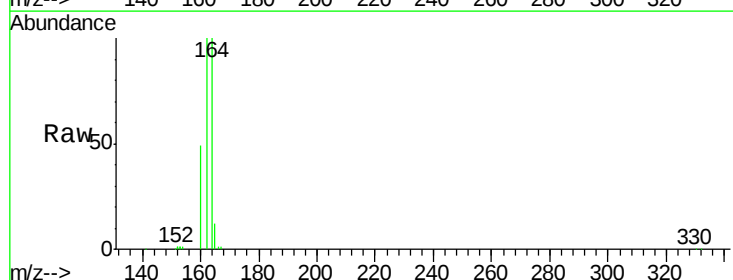
Concen: 5.00 ng

RT: 10.79 min Scan# 2109

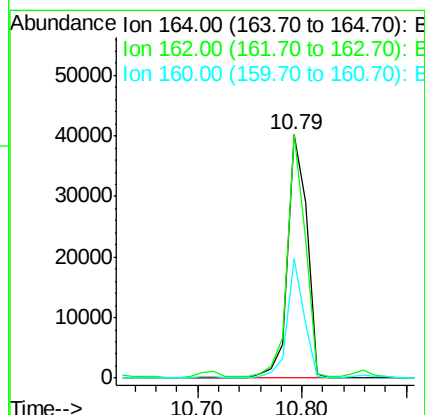
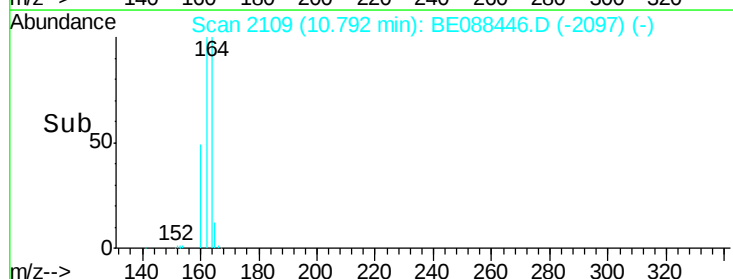
Delta R.T. 0.00 min

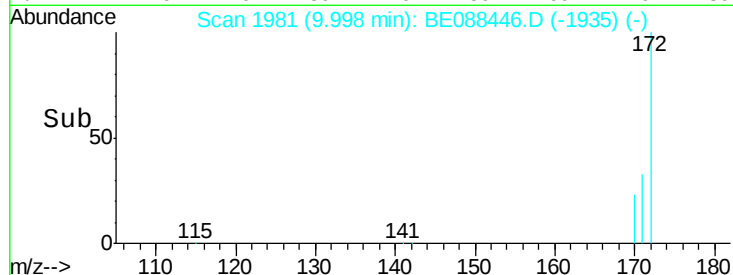
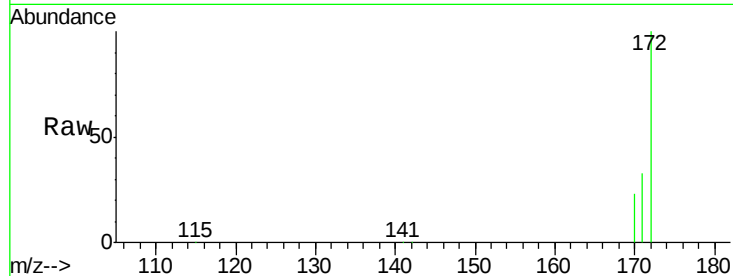
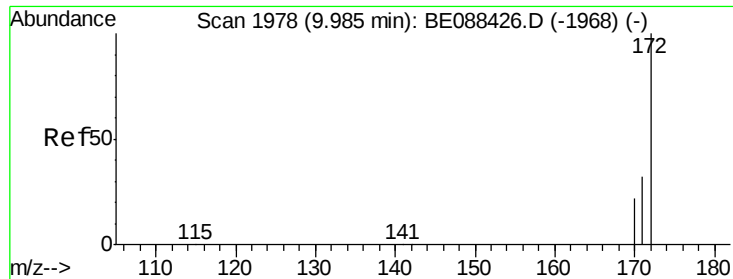
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Acq: 1 Nov 2014 5:18



Tgt Ion:	164	Resp:	51013
Ion Ratio	Lower	Upper	
164	100		
162	99.9	77.0	115.4
160	49.0	36.8	55.2





#8

2-Fluorobiphenyl

Concen: 50.34 ng

RT: 10.00 min Scan# 1981

Delta R.T. 0.01 min

Lab File: BE088446.D

Acq: 1 Nov 2014 5:18

Instrument :

BNA_E

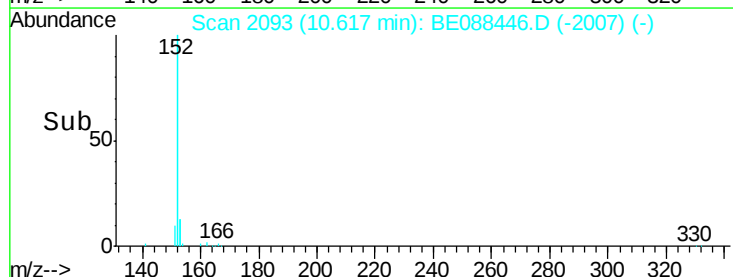
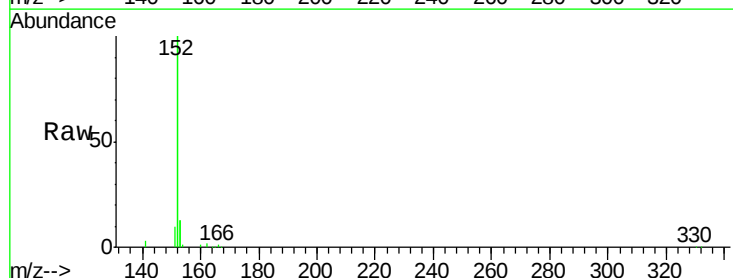
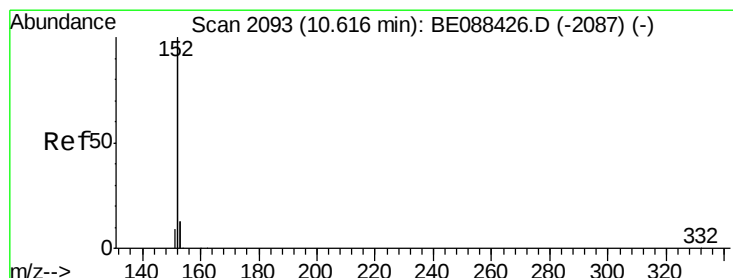
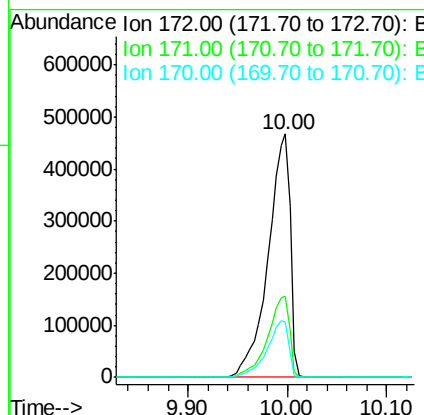
ClientSampleId :

YS19-SS32-1014

Tgt Ion:	172	Resp:	723885
Ion Ratio	Lower	Upper	
172	100		
171	33.4	26.0	39.0
170	22.7	17.6	26.4

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#9

Acenaphthylene

Concen: 0.41 ng

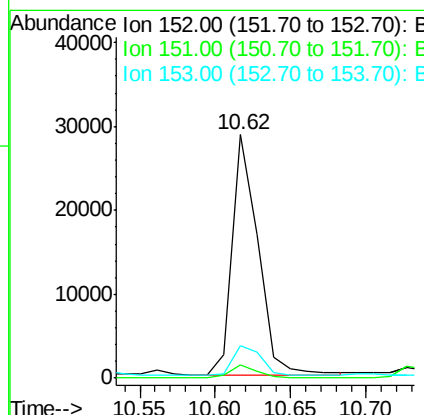
RT: 10.62 min Scan# 2093

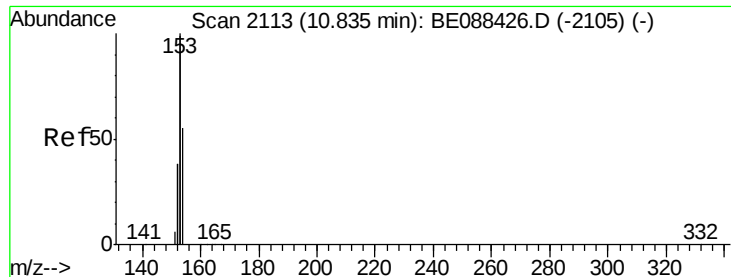
Delta R.T. 0.00 min

Lab File: BE088446.D

Acq: 1 Nov 2014 5:18

Tgt Ion:	152	Resp:	34223
Ion Ratio	Lower	Upper	
152	100		
151	4.5	4.4	6.6
153	14.3	10.5	15.7





#10

Acenaphthene

Concen: 0.63 ng

RT: 10.84 min Scan# 2113

Delta R.T. 0.00 min

Lab File: BE088446.D

Acq: 1 Nov 2014 5:18

Instrument :

BNA_E

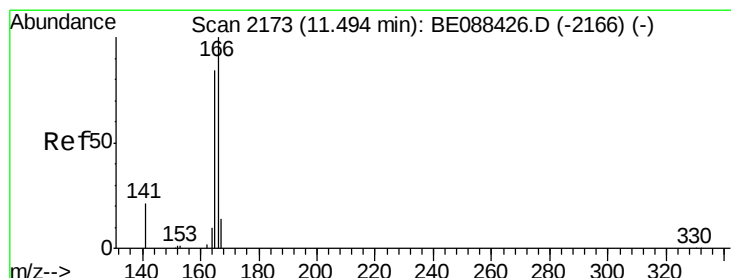
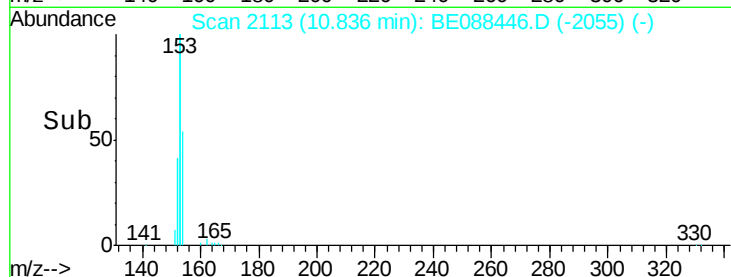
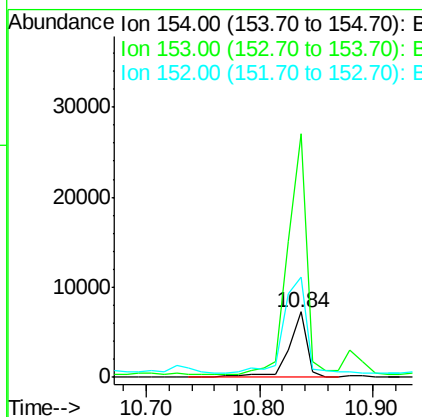
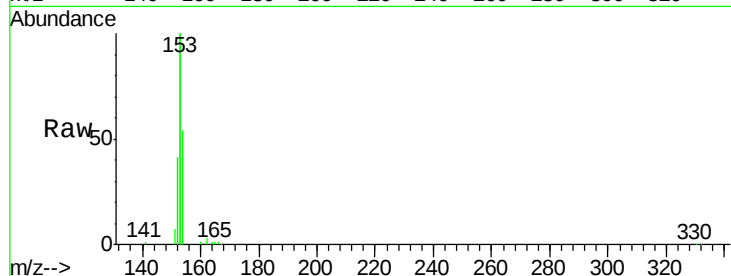
ClientSampleId :

YS19-SS32-1014

Tgt Ion:	154	Resp:	7669
Ion Ratio	Lower	Upper	
154	100		
153	393.6	324.3	486.5
152	211.7	154.9	232.3

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#11

Fluorene

Concen: 0.71 ng

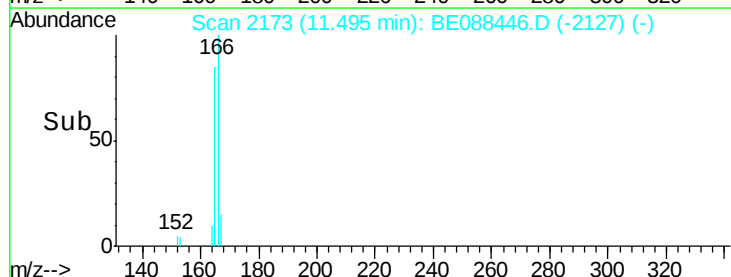
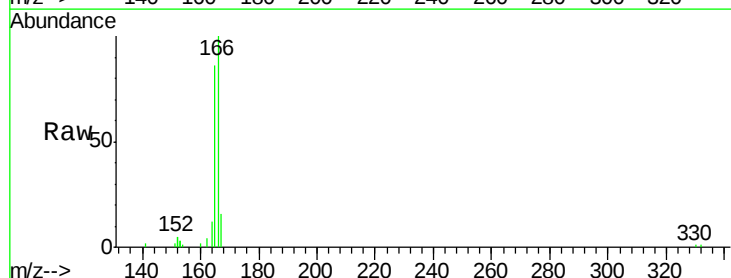
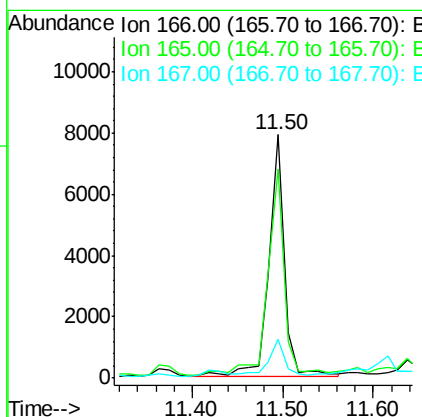
RT: 11.50 min Scan# 2173

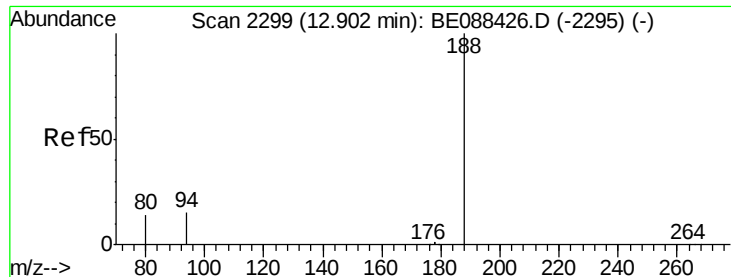
Delta R.T. 0.00 min

Lab File: BE088446.D

Acq: 1 Nov 2014 5:18

Tgt Ion:	166	Resp:	9250
Ion Ratio	Lower	Upper	
166	100		
165	91.5	71.3	106.9
167	13.7	10.7	16.1





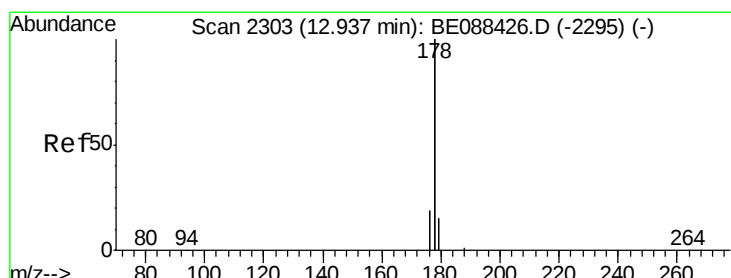
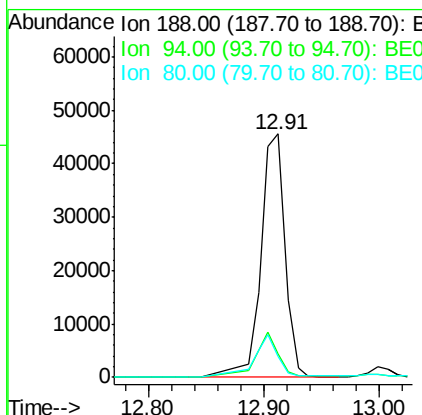
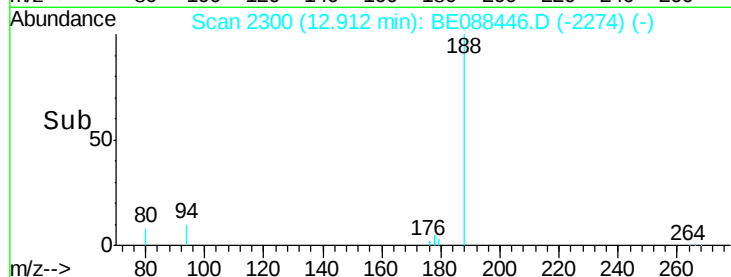
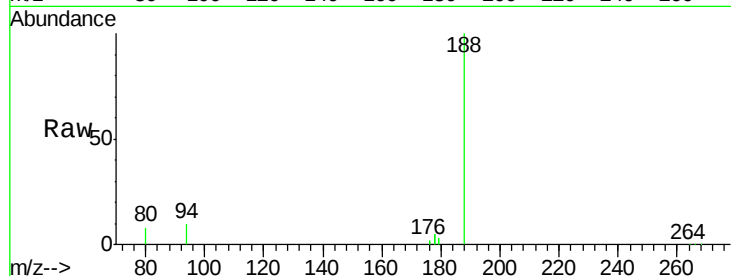
#12
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.91 min Scan# 2300
Delta R.T. 0.01 min
Lab File: BE088446.D
Acq: 1 Nov 2014 5:18

Instrument :
BNA_E
ClientSampleId :
YS19-SS32-1014

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	9.8	11.8	17.8#
80	8.4	10.9	16.3#

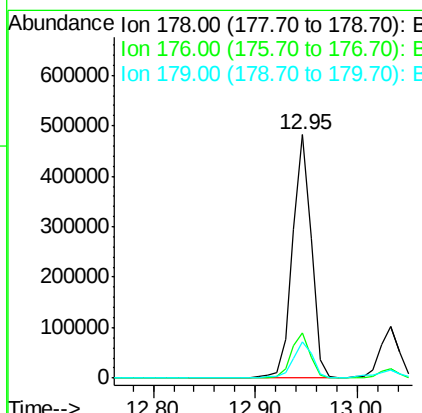
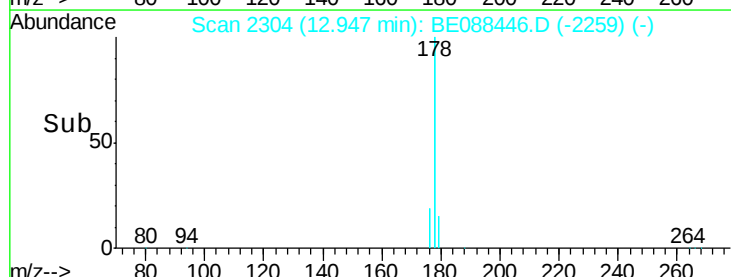
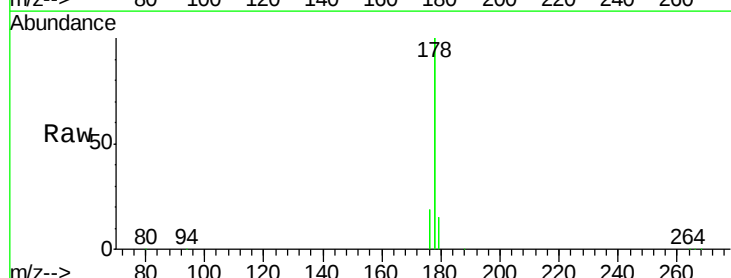
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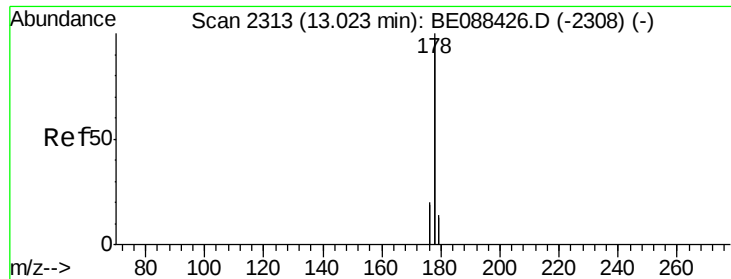
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#13
Phenanthrene
Concen: 10.16 ng
RT: 12.95 min Scan# 2304
Delta R.T. 0.01 min
Lab File: BE088446.D
Acq: 1 Nov 2014 5:18

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	18.9	15.4	23.2
179	16.0	12.8	19.2





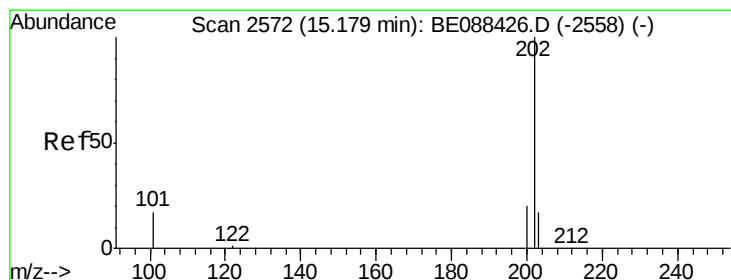
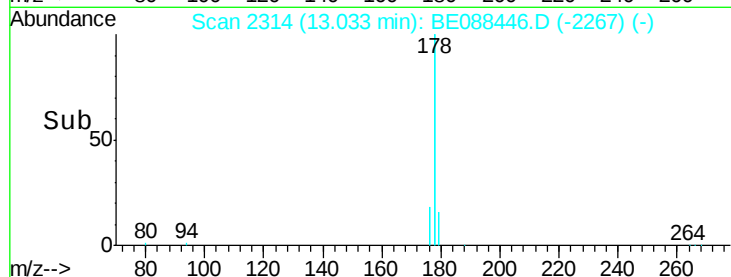
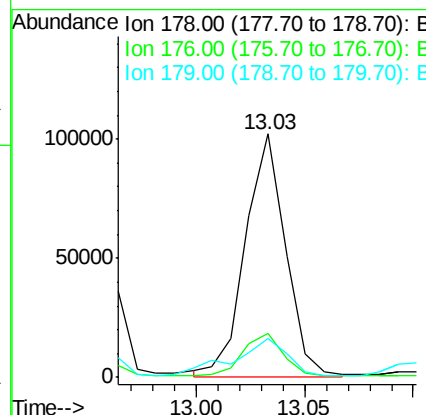
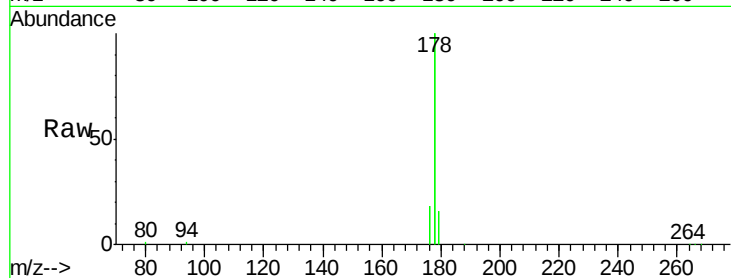
#14
 Anthracene
 Concen: 2.05 ng m
 RT: 13.03 min Scan# 2314
 Delta R.T. 0.01 min
 Lab File: BE088446.D
 Acq: 1 Nov 2014 5:18

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS32-1014

Tgt Ion	Ratio	Lower	Upper
178	100		
176	115.6	15.0	22.4#
179	98.1	12.5	18.7#

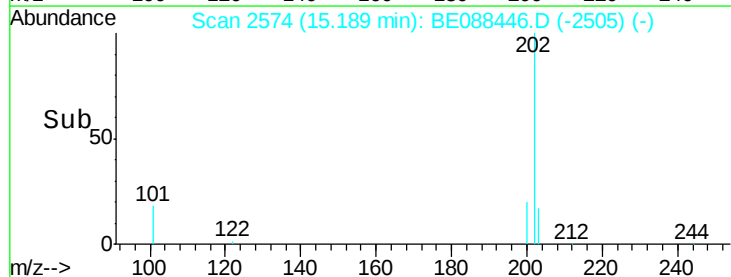
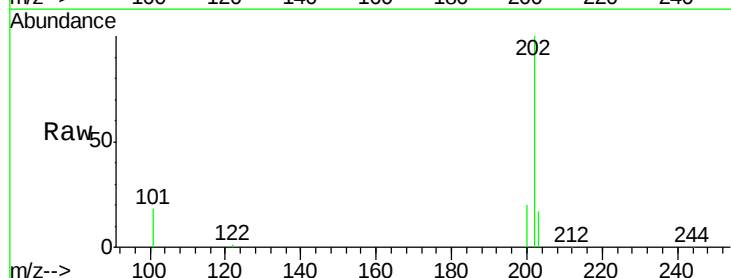
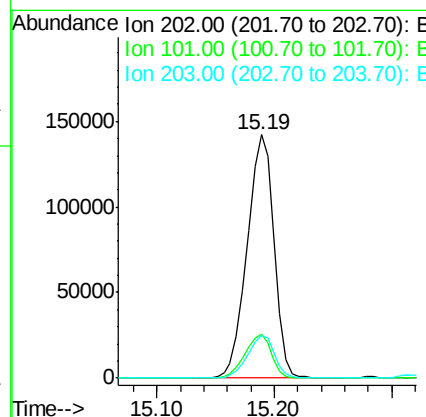
Manual Integrations
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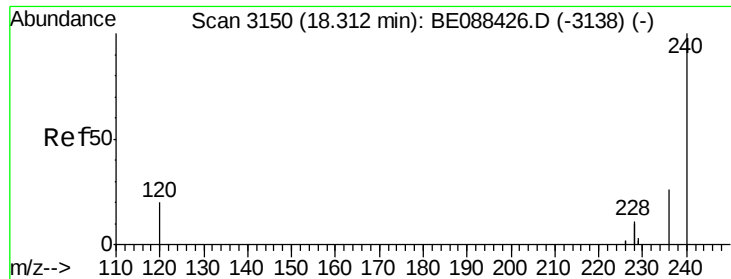
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#15
 Fluoranthene
 Concen: 17.43 ng
 RT: 15.19 min Scan# 2574
 Delta R.T. 0.01 min
 Lab File: BE088446.D
 Acq: 1 Nov 2014 5:18

Tgt Ion	Ratio	Lower	Upper
202	100		
101	17.6	14.3	21.5
203	17.4	13.6	20.4





#16

Chrysene-d12

Concen: 5.00 ng

RT: 18.33 min Scan# 3152

Delta R.T. 0.01 min

Lab File: BE088446.D

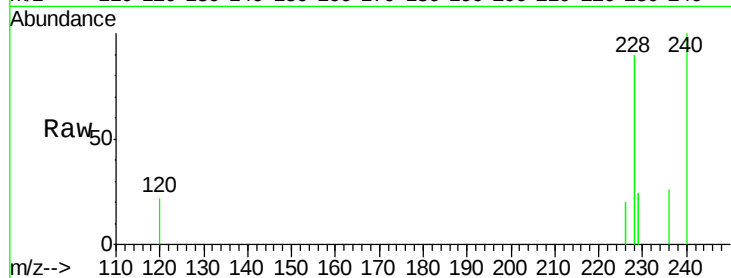
Acq: 1 Nov 2014 5:18

Instrument :

BNA_E

ClientSampleId :

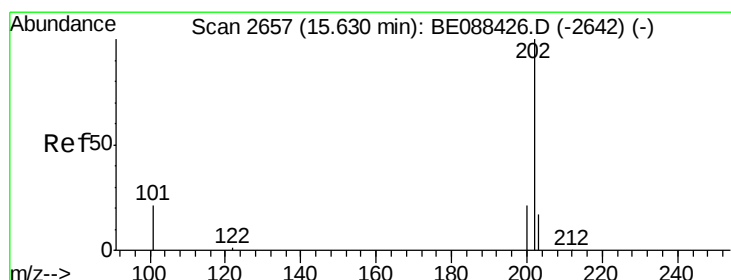
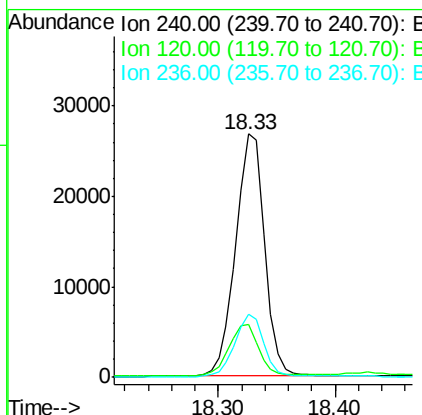
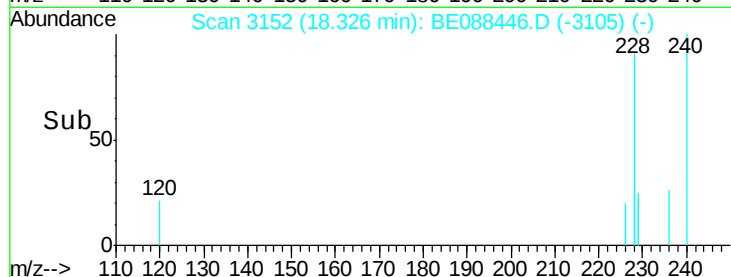
YS19-SS32-1014



Tgt Ion:	240	Resp:	45948
Ion Ratio	Lower	Upper	
240	100		
120	21.8	16.4	24.6
236	25.8	20.5	30.7

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#17

Pyrene

Concen: 12.58 ng

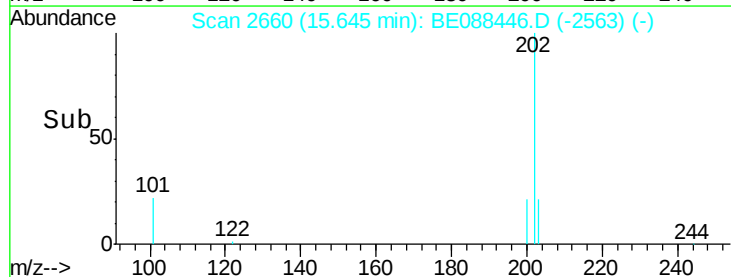
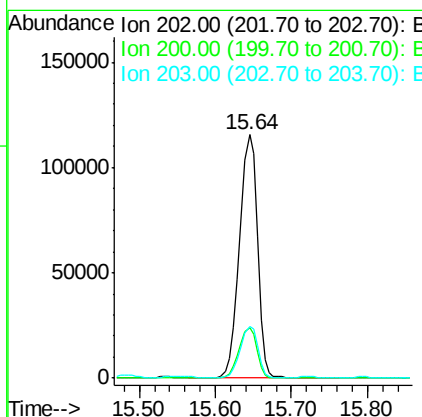
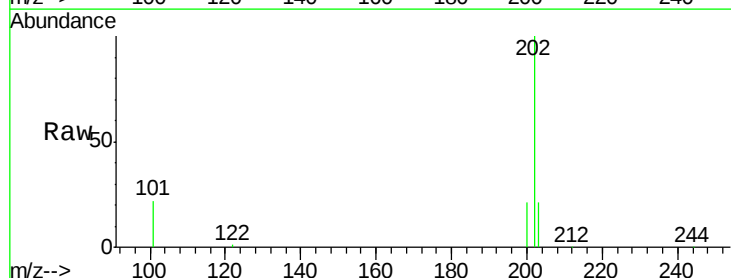
RT: 15.64 min Scan# 2660

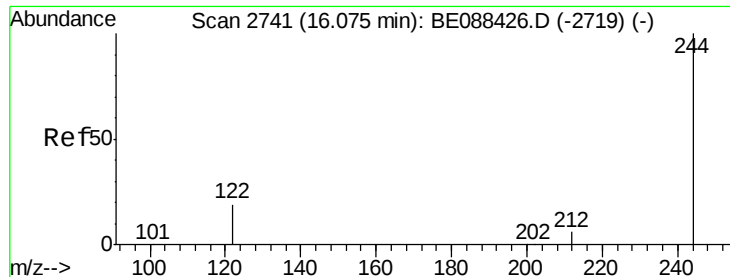
Delta R.T. 0.01 min

Lab File: BE088446.D

Acq: 1 Nov 2014 5:18

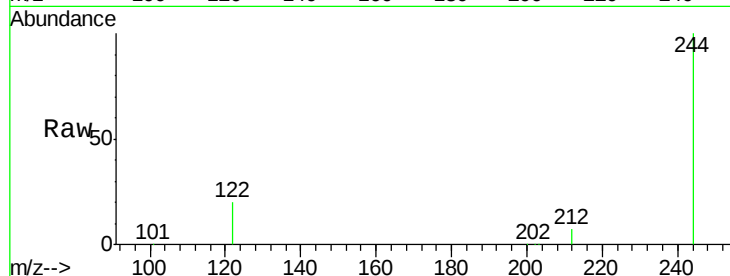
Tgt Ion:	202	Resp:	188528
Ion Ratio	Lower	Upper	
202	100		
200	20.5	16.1	24.1
203	20.7	13.8	20.8





#18
 Terphenyl-d14
 Concen: 49.40 ng
 RT: 16.10 min Scan# 2746
 Delta R.T. 0.03 min
 Lab File: BE088446.D
 Acq: 1 Nov 2014 5:18

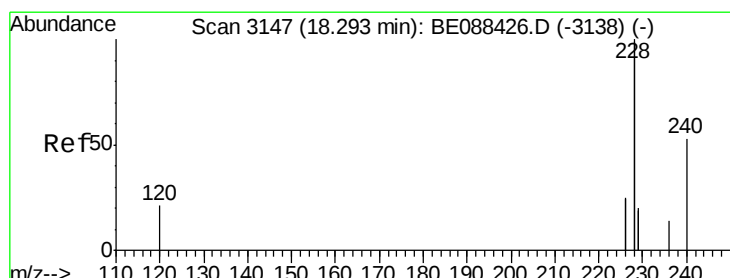
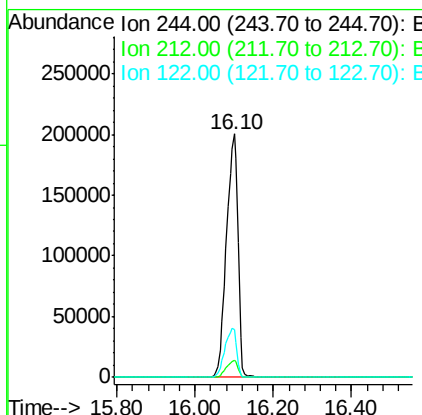
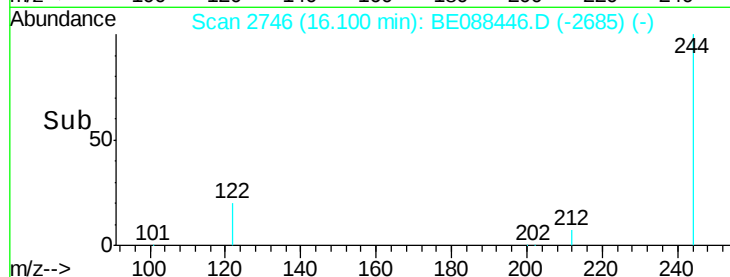
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS32-1014



Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.5	8.3
122	19.6	15.6	23.4

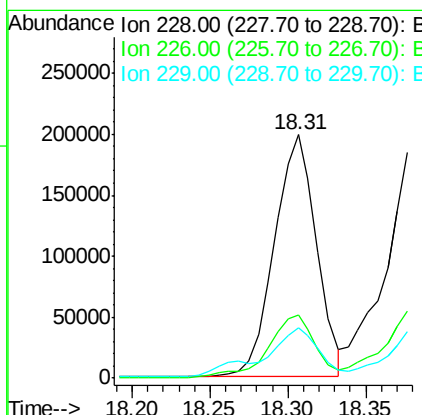
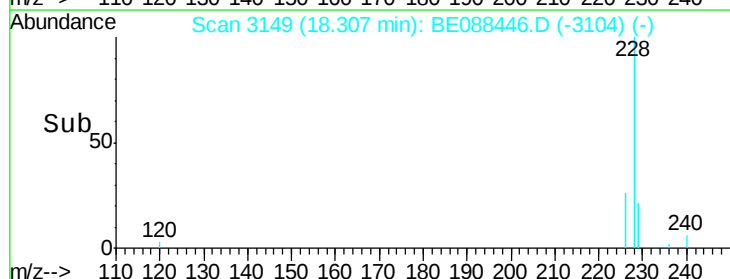
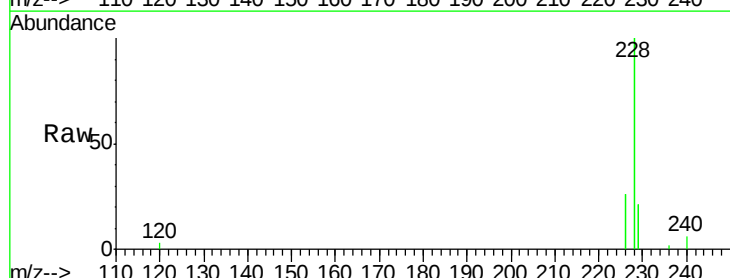
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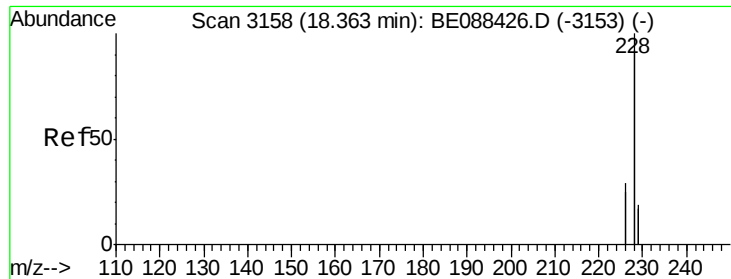
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#19
 Benzo(a)anthracene
 Concen: 8.61 ng
 RT: 18.31 min Scan# 3149
 Delta R.T. 0.01 min
 Lab File: BE088446.D
 Acq: 1 Nov 2014 5:18

Tgt Ion	Ratio	Lower	Upper
228	100		
226	25.7	19.8	29.6
229	20.6	16.0	24.0





#20

Chrysene

Concen: 9.40 ng

RT: 18.38 min Scan# 3161

Delta R.T. 0.02 min

Lab File: BE088446.D

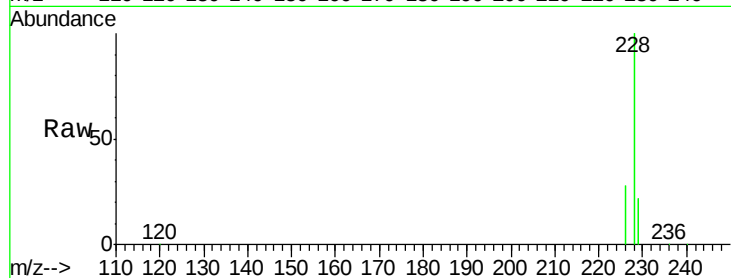
Acq: 1 Nov 2014 5:18

Instrument :

BNA_E

ClientSampled :

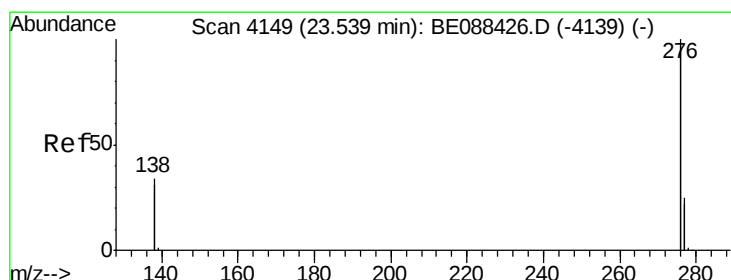
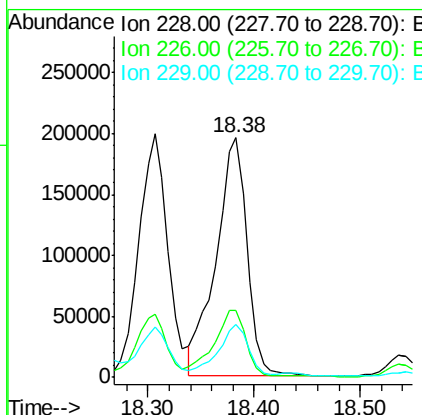
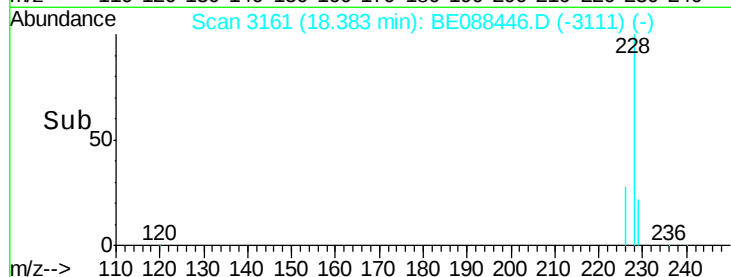
YS19-SS32-1014



Tgt Ion:	228	Resp:	399114
Ion Ratio	Lower	Upper	
228	100		
226	27.9	23.6	35.4
229	22.0	15.4	23.2

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#21

Indeno(1,2,3-cd)pyrene

Concen: 5.93 ng m

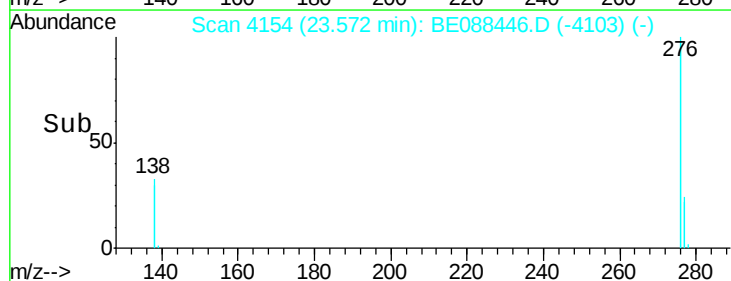
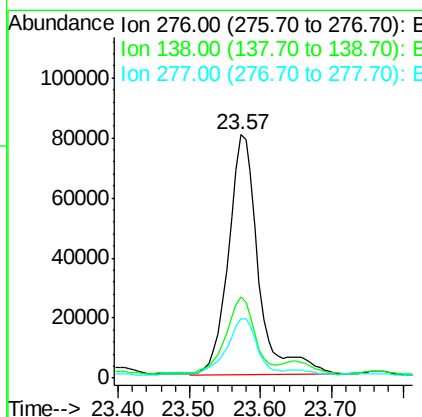
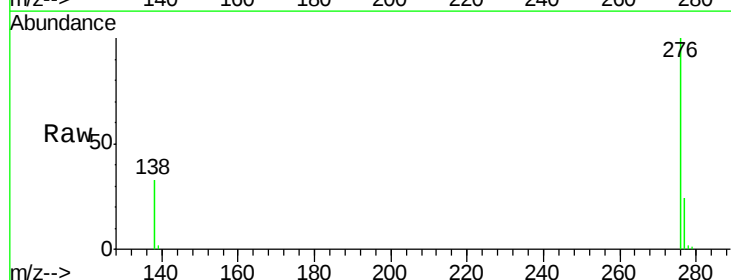
RT: 23.57 min Scan# 4154

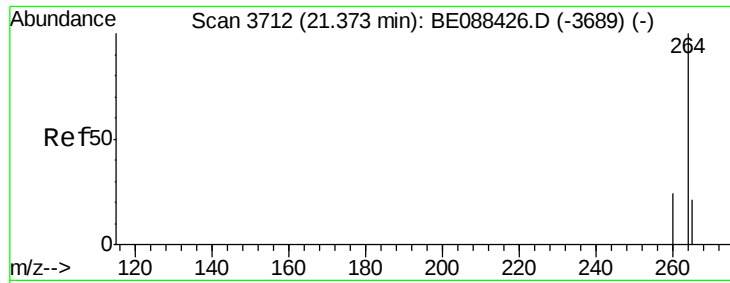
Delta R.T. 0.03 min

Lab File: BE088446.D

Acq: 1 Nov 2014 5:18

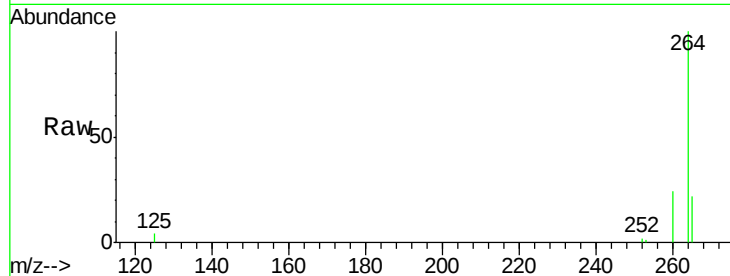
Tgt Ion:	276	Resp:	234503
Ion Ratio	Lower	Upper	
276	100		
138	31.4	20.2	30.2#
277	22.7	14.8	22.2#





#22
 Perylene-d12
 Concen: 5.00 ng
 RT: 21.39 min Scan# 3715
 Delta R.T. 0.01 min
 Lab File: BE088446.D
 Acq: 1 Nov 2014 5:18

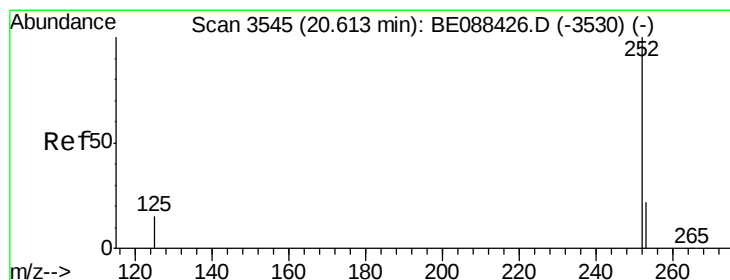
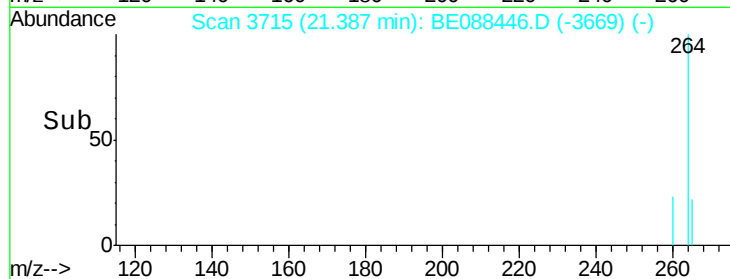
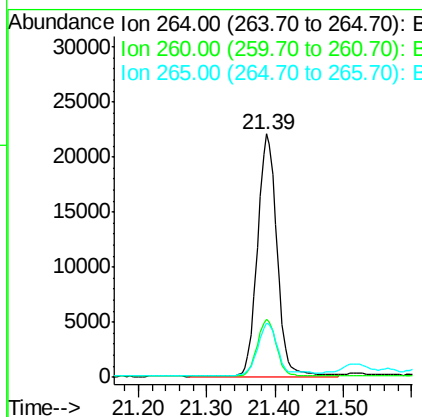
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS32-1014



Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.9	28.3
265	22.1	17.2	25.8

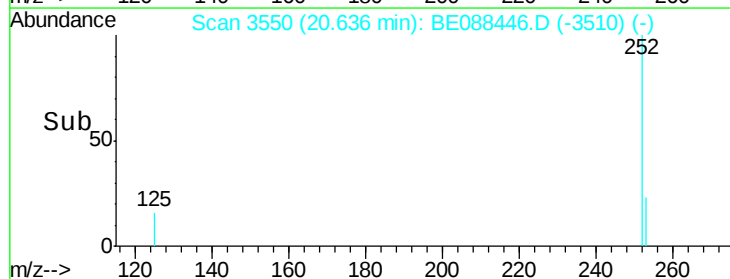
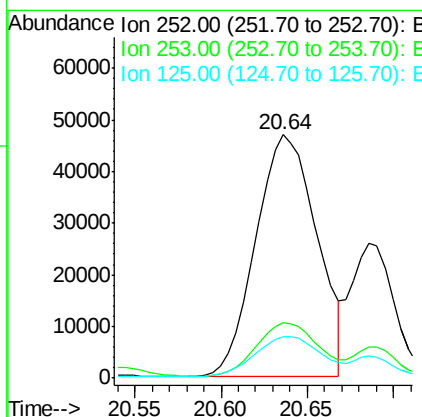
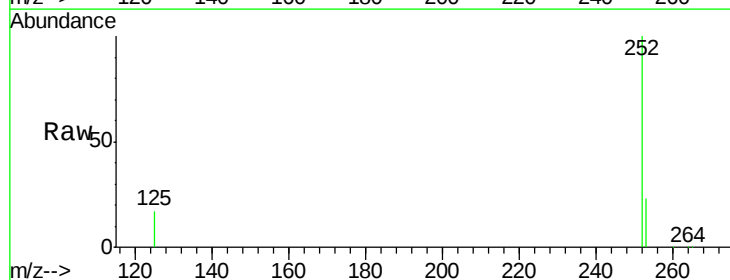
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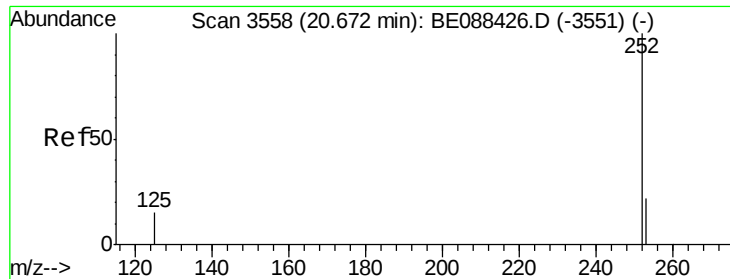
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#23
 Benzo(b)fluoranthene
 Concen: 12.02 ng
 RT: 20.64 min Scan# 3550
 Delta R.T. 0.02 min
 Lab File: BE088446.D
 Acq: 1 Nov 2014 5:18

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.8	26.8
125	16.9	12.3	18.5





#24

Benzo(k)fluoranthene

Concen: 3.96 ng

RT: 20.69 min Scan# 3561

Delta R.T. 0.01 min

Lab File: BE088446.D

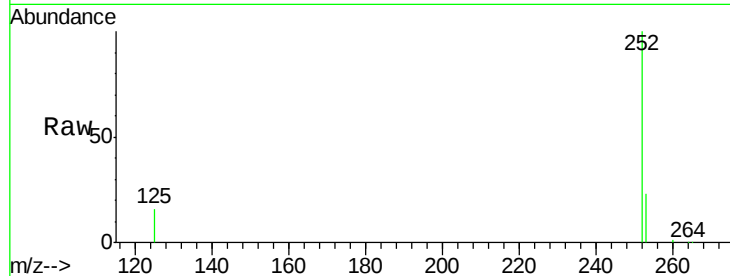
Acq: 1 Nov 2014 5:18

Instrument :

BNA_E

ClientSampleId :

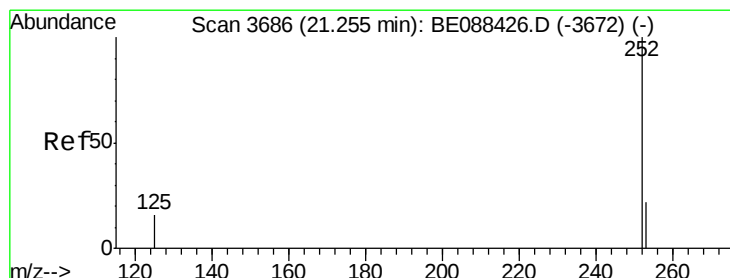
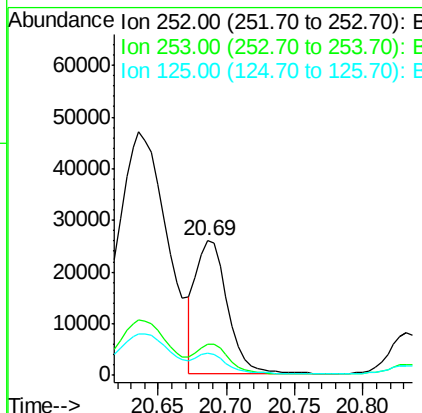
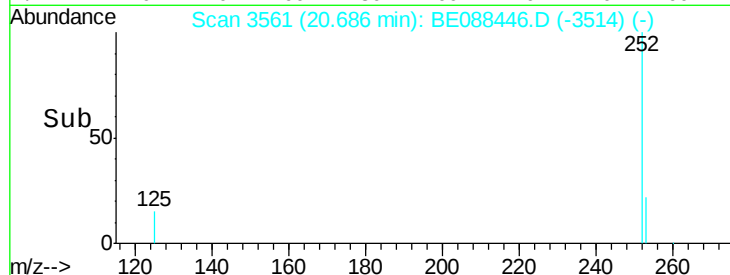
YS19-SS32-1014



Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.8	26.8
125	16.1	12.2	18.4

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#25

Benzo(a)pyrene

Concen: 8.35 ng

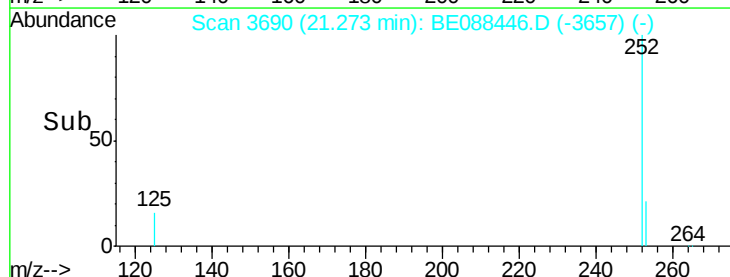
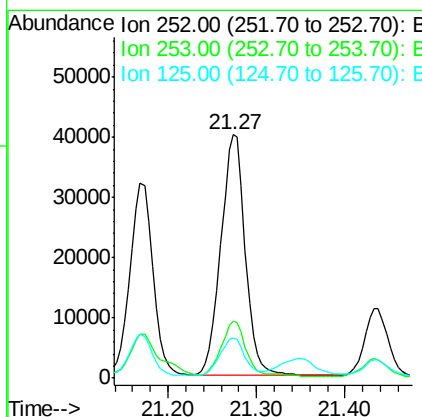
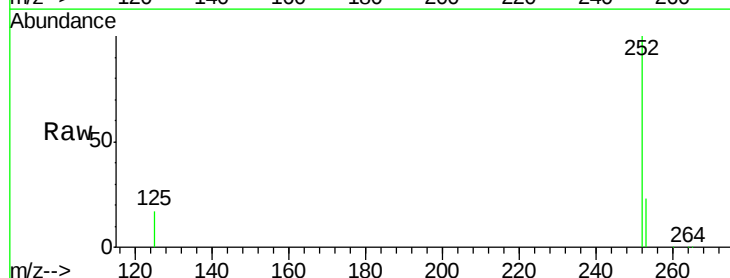
RT: 21.27 min Scan# 3690

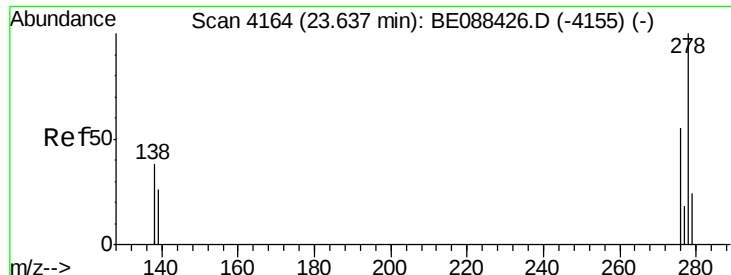
Delta R.T. 0.02 min

Lab File: BE088446.D

Acq: 1 Nov 2014 5:18

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.2	27.4
125	16.7	13.7	20.5





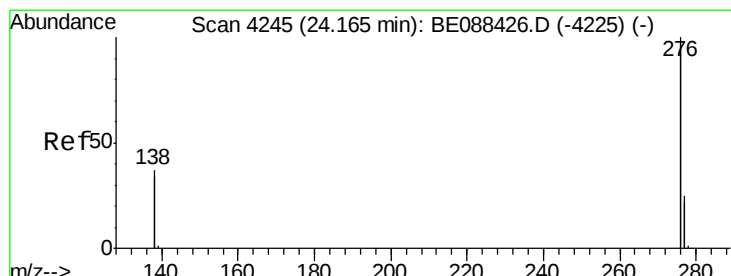
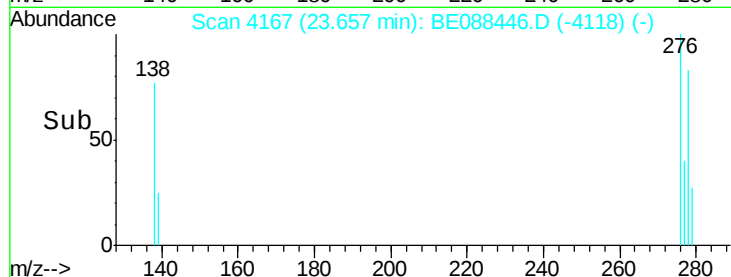
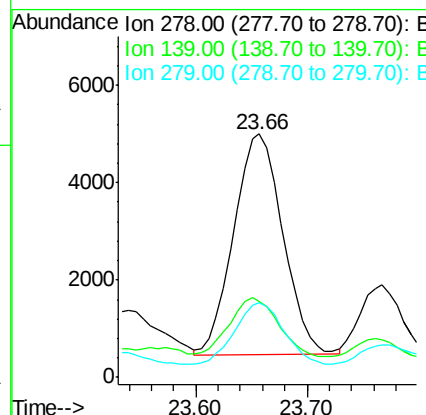
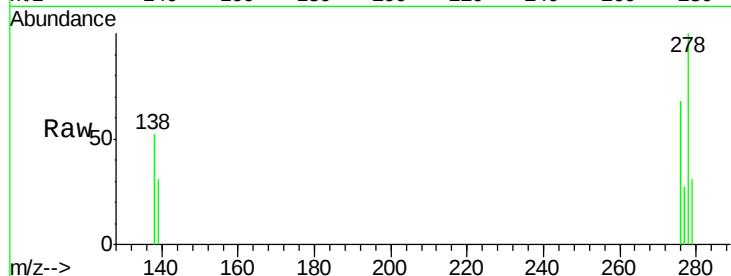
#26
Dibenzo(a,h)anthracene
Concen: 1.63 ng m
RT: 23.66 min Scan# 4167
Delta R.T. 0.02 min
Lab File: BE088446.D
Acq: 1 Nov 2014 5:18

Instrument :
BNA_E
ClientSampleId :
YS19-SS32-1014

Tgt Ion	Ratio	Lower	Upper
278	100		
139	31.4	22.1	33.1
279	30.8	19.7	29.5

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#27
Benzo(g,h,i)perylene
Concen: 5.68 ng
RT: 24.20 min Scan# 4251
Delta R.T. 0.04 min
Lab File: BE088446.D
Acq: 1 Nov 2014 5:18

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.3	19.8	29.6
138	35.8	29.3	43.9

