

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088471.D
 Acq On : 2 Nov 2014 2:32
 Operator : TP/JJ
 Sample : F4379-01DL 5X
 Misc :
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS32-1014DL

Manual Integrations
 APPROVED

mohammad
 11/4/2014 9:08:12 AM

Quant Time: Nov 02 05:39:32 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	27933	5.00	ng	0.00
3) Naphthalene-d8	8.65	136	106815	5.00	ng	0.00
7) Acenaphthene-d10	10.80	164	50615	5.00	ng	0.01
12) Phenanthrene-d10	12.91	188	97200	5.00	ng	0.00
16) Chrysene-d12	18.33	240	61069	5.00	ng	0.02
22) Perylene-d12	21.40	264	59909	5.00	ng	0.03
System Monitoring Compounds						
4) Nitrobenzene-d5	7.78	82	102453	13.08	ng	0.00
8) 2-Fluorobiphenyl	9.99	172	159663	11.19	ng	0.00
18) Terphenyl-d14	16.09	244	108107	9.64	ng	0.02
Target Compounds						Qvalue
5) Naphthalene	8.68	128	825	0.04	ng	# 86
6) 2-Methylnaphthalene	9.53	142	353	0.03	ng	# 88
9) Acenaphthylene	10.62	152	9024	0.11	ng	# 94
10) Acenaphthene	10.84	154	1386	0.11	ng	85
11) Fluorene	11.50	166	1810	0.14	ng	98
13) Phenanthrene	12.95	178	163364	1.85	ng	98
14) Anthracene	13.04	178	29856m	0.42	ng	
15) Fluoranthene	15.20	202	49740	3.47	ng	100
17) Pyrene	15.65	202	41478m	2.08	ng	
19) Benzo(a)anthracene	18.31	228	84022	1.46	ng	98
20) Chrysene	18.38	228	93004	1.65	ng	98
21) Indeno(1,2,3-cd)pyrene	23.58	276	53568m	1.02	ng	
23) Benzo(b)fluoranthene	20.64	252	27773	2.11	ng	# 95
24) Benzo(k)fluoranthene	20.69	252	10209	0.71	ng	# 93
25) Benzo(a)pyrene	21.28	252	18053	1.43	ng	96
26) Dibenzo(a,h)anthracene	23.67	278	3142	0.27	ng	# 69
27) Benzo(g,h,i)perylene	24.22	276	47912	0.89	ng	95

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

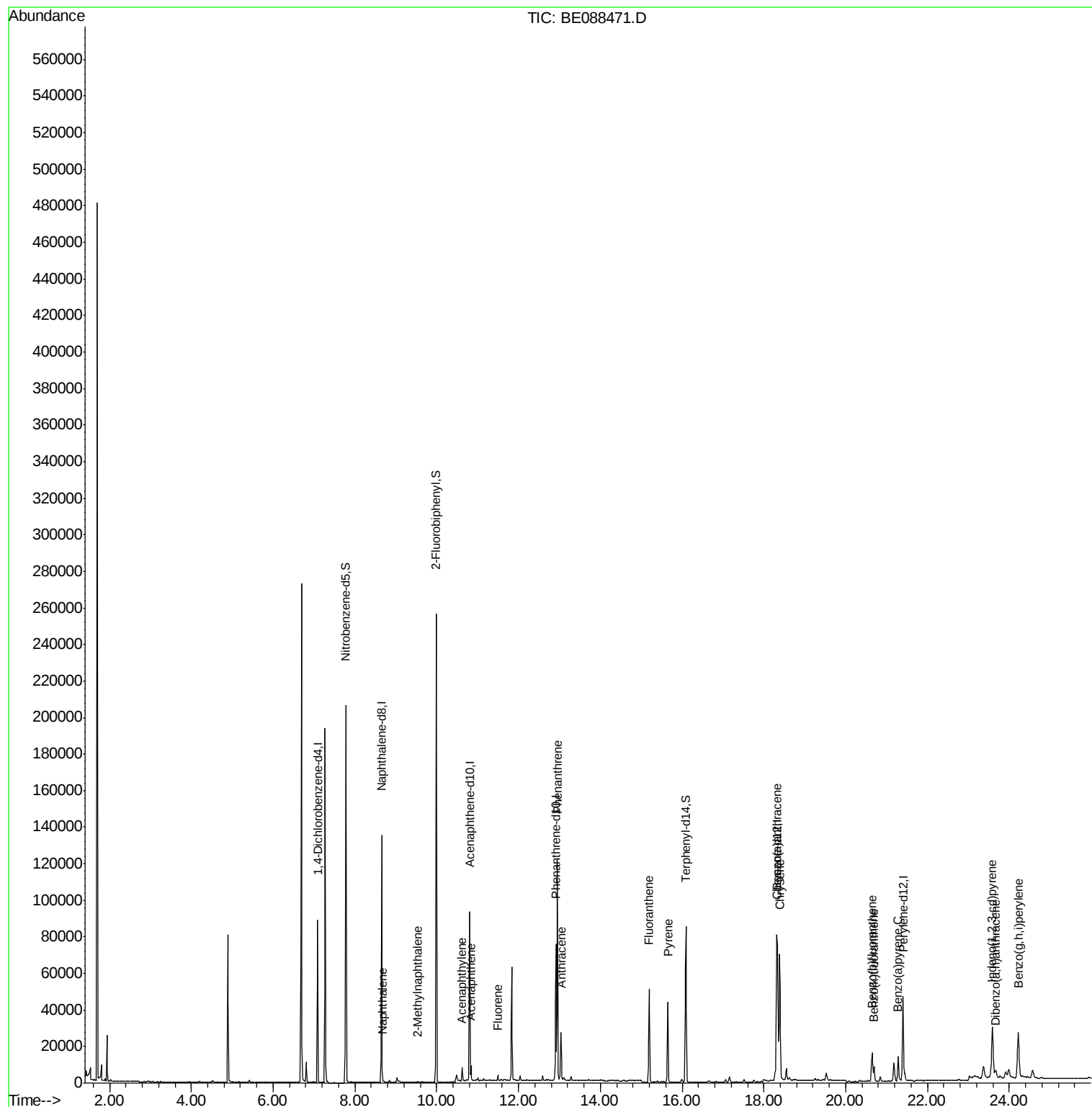
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
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QLast Update : Sat Nov 01 00:42:07 2014
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.09 min Scan# 1247

Delta R.T. 0.00 min

Lab File: BE088471.D

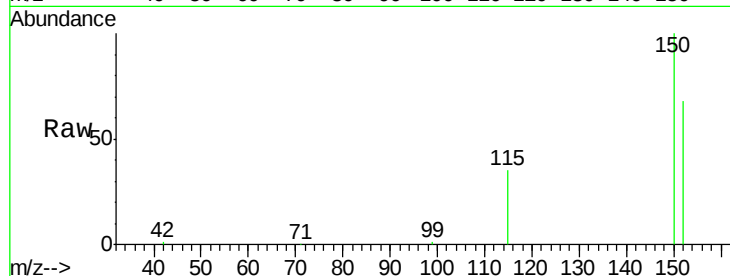
Acq: 2 Nov 2014 2:32

Instrument :

BNA_E

ClientSampleId :

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Tgt Ion:152 Resp: 27933

Ion Ratio Lower Upper

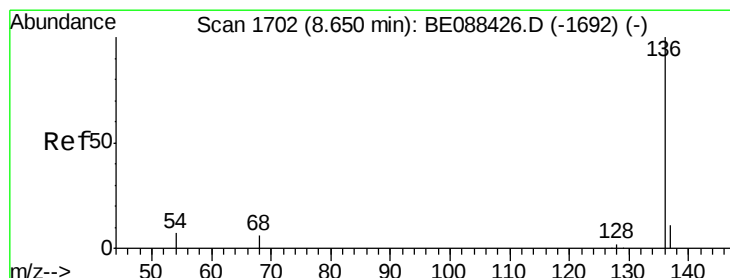
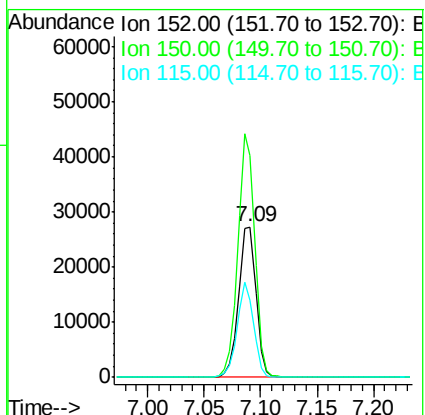
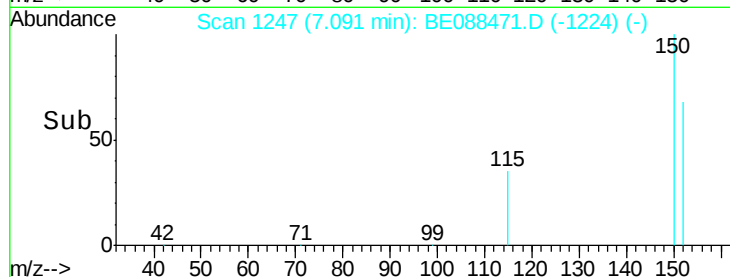
152 100

150 147.4 121.8 182.8

115 51.7 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: BE088471.D

Acq: 2 Nov 2014 2:32

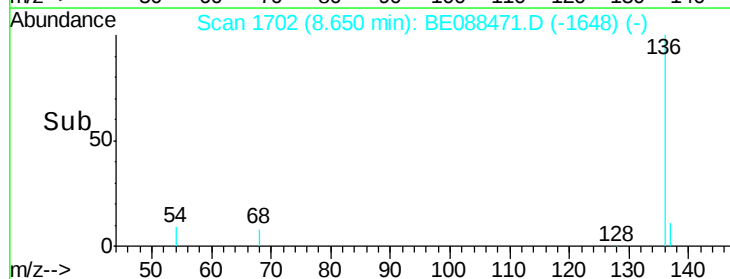
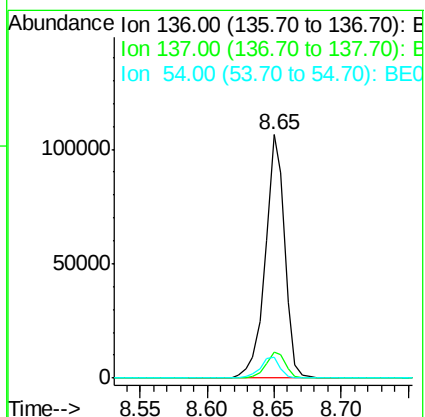
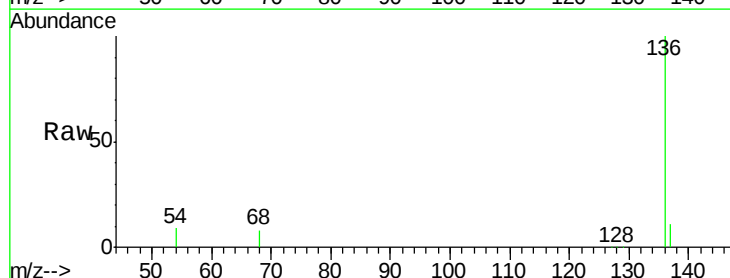
Tgt Ion:136 Resp: 106815

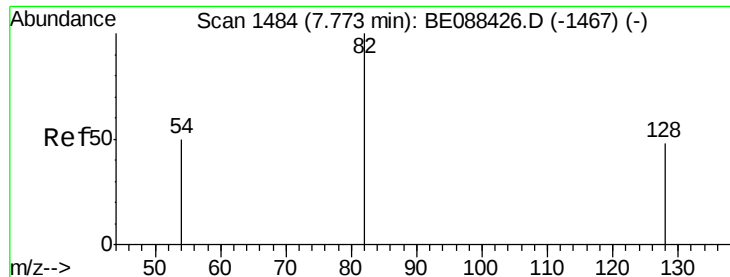
Ion Ratio Lower Upper

136 100

137 10.7 8.8 13.2

54 8.6 5.3 7.9#





#4

Nitrobenzene-d5

Concen: 13.08 ng

RT: 7.78 min Scan# 1486

Delta R.T. 0.00 min

Lab File: BE088471.D

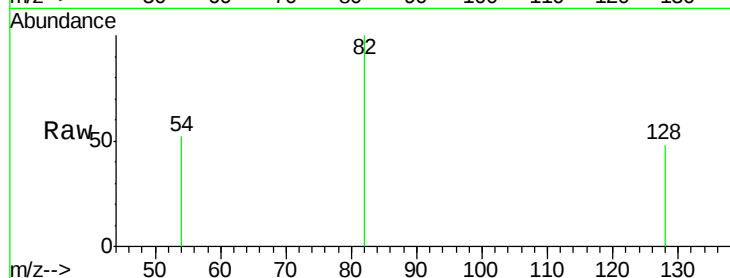
Acq: 2 Nov 2014 2:32

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014DL



Tgt Ion: 82 Resp: 102453

Ion Ratio Lower Upper

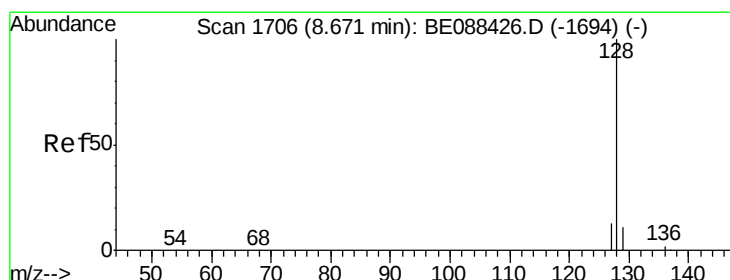
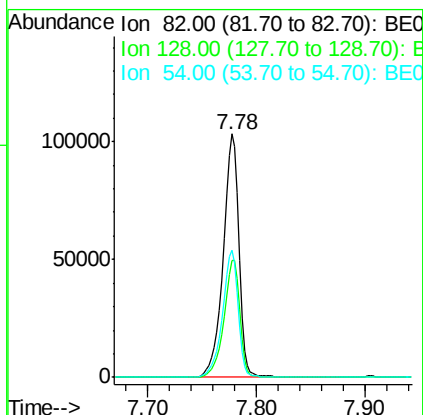
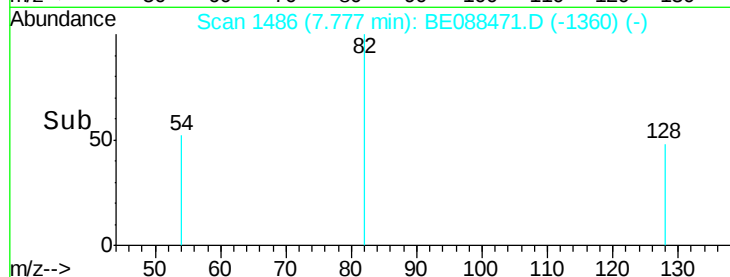
82 100

128 48.0 38.4 57.6

54 52.2 40.2 60.2

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#5

Naphthalene

Concen: 0.04 ng

RT: 8.68 min Scan# 1707

Delta R.T. 0.01 min

Lab File: BE088471.D

Acq: 2 Nov 2014 2:32

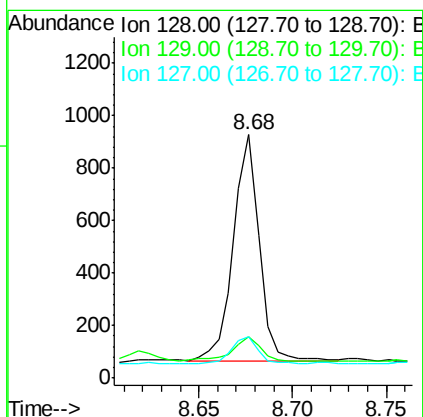
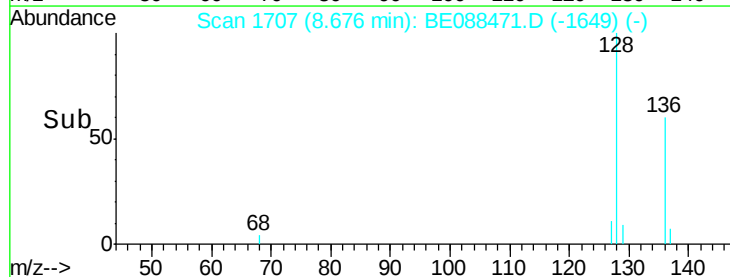
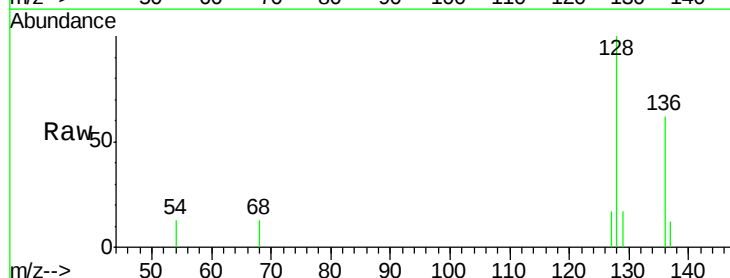
Tgt Ion: 128 Resp: 825

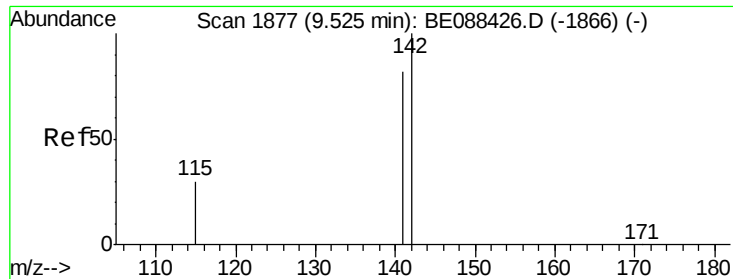
Ion Ratio Lower Upper

128 100

129 17.1 8.6 12.8#

127 17.0 10.1 15.1#





#6

2-Methylnaphthalene

Concen: 0.03 ng

RT: 9.53 min Scan# 1878

Delta R.T. 0.00 min

Lab File: BE088471.D

Acq: 2 Nov 2014 2:32

Instrument :

BNA_E

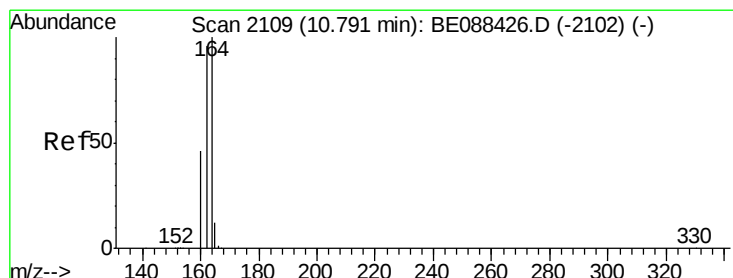
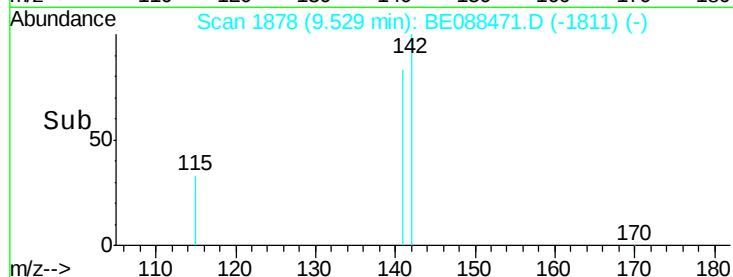
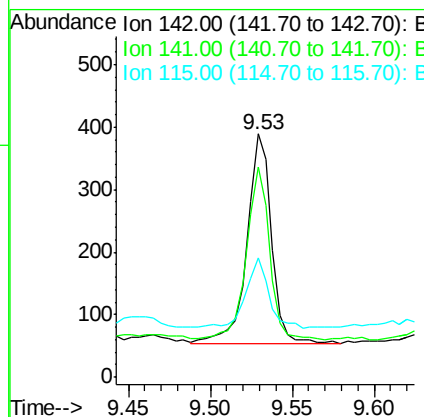
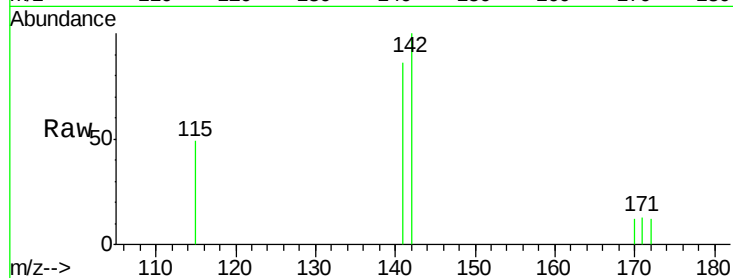
ClientSampleId :

YS19-SS32-1014DL

Tgt Ion:	142	Resp:	353
Ion Ratio	Lower	Upper	
142	100		
141	86.4	65.8	98.8
115	48.8	24.2	36.4#

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#7

Acenaphthene-d10

Concen: 5.00 ng

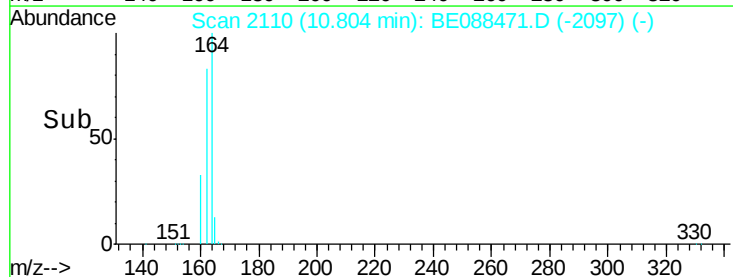
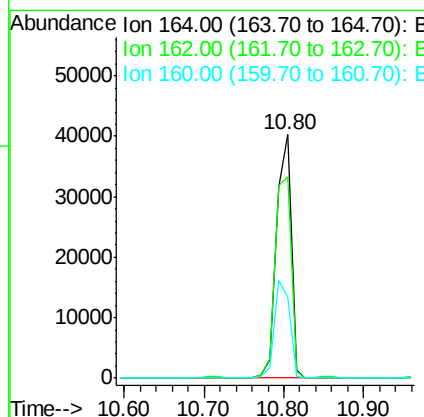
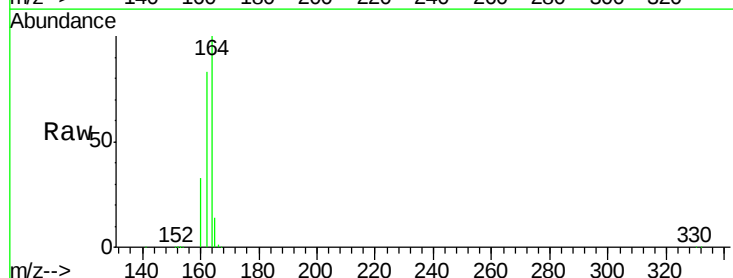
RT: 10.80 min Scan# 2110

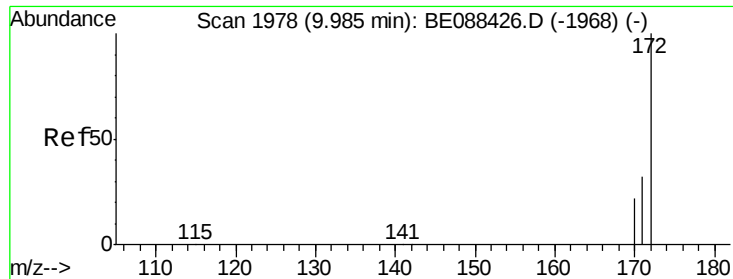
Delta R.T. 0.01 min

Lab File: BE088471.D

Acq: 2 Nov 2014 2:32

Tgt Ion:	164	Resp:	50615
Ion Ratio	Lower	Upper	
164	100		
162	82.7	77.0	115.4
160	33.1	36.8	55.2#





#8

2-Fluorobiphenyl

Concen: 11.19 ng

RT: 9.99 min Scan# 1979

Delta R.T. 0.00 min

Lab File: BE088471.D

Acq: 2 Nov 2014 2:32

Instrument :

BNA_E

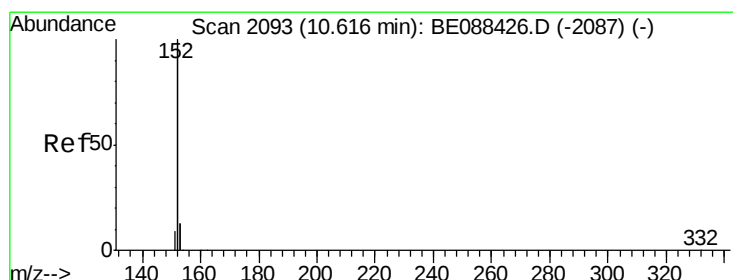
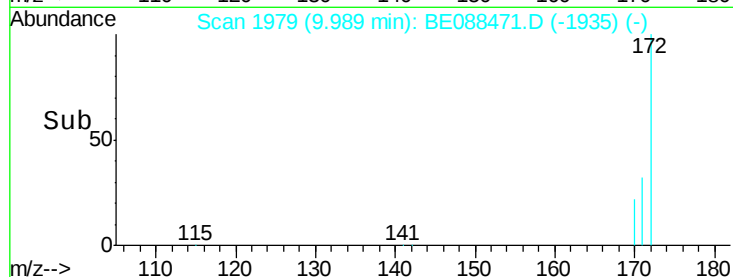
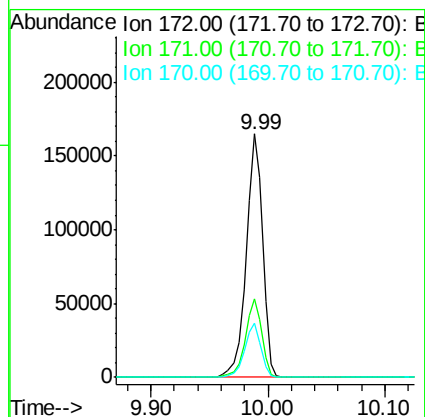
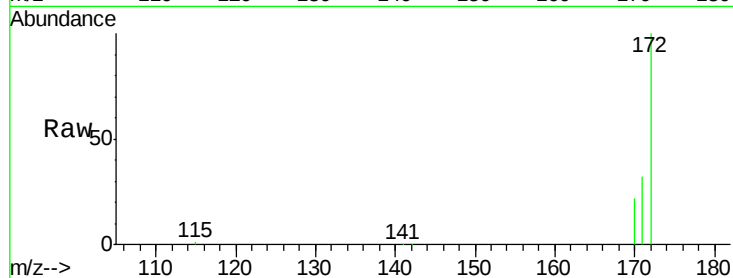
ClientSampleId :

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Tgt Ion:	172	Resp:	159663
Ion Ratio	Lower	Upper	
172	100		
171	32.4	26.0	39.0
170	22.4	17.6	26.4

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#9

Acenaphthylene

Concen: 0.11 ng

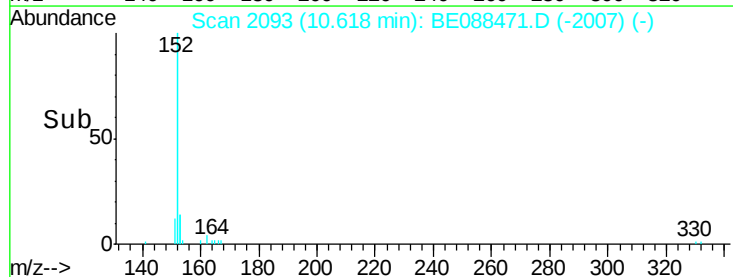
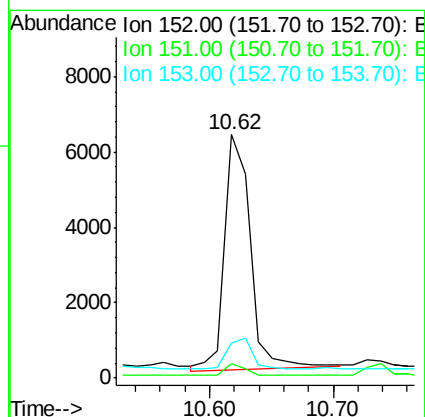
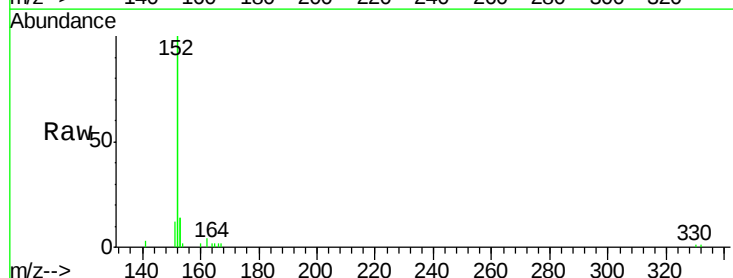
RT: 10.62 min Scan# 2093

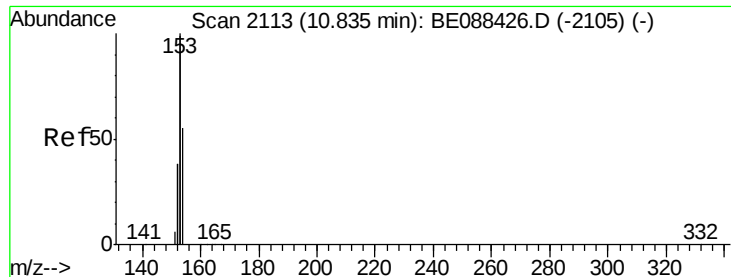
Delta R.T. 0.00 min

Lab File: BE088471.D

Acq: 2 Nov 2014 2:32

Tgt Ion:	152	Resp:	9024
Ion Ratio	Lower	Upper	
152	100		
151	4.2	4.4	6.6#
153	15.7	10.5	15.7





#10

Acenaphthene

Concen: 0.11 ng

RT: 10.84 min Scan# 2113

Delta R.T. 0.00 min

Lab File: BE088471.D

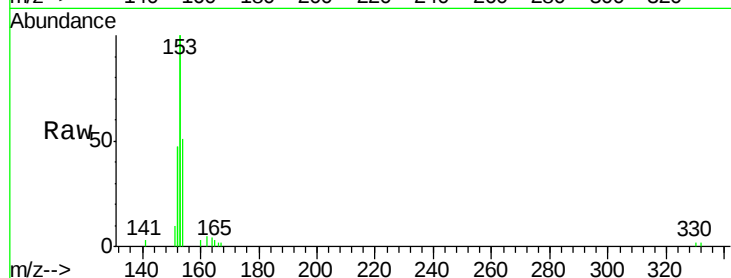
Acq: 2 Nov 2014 2:32

Instrument :

BNA_E

ClientSampleId :

YS19-SS32-1014DL



Tgt Ion:154 Resp: 1386

Ion Ratio Lower Upper

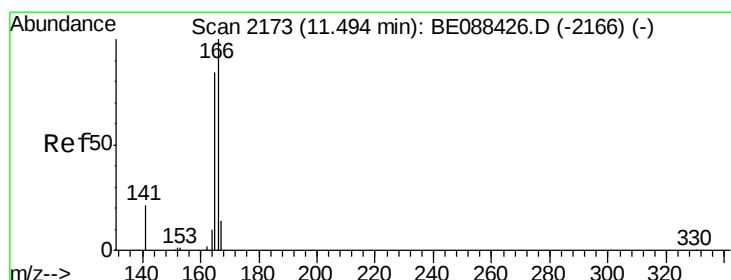
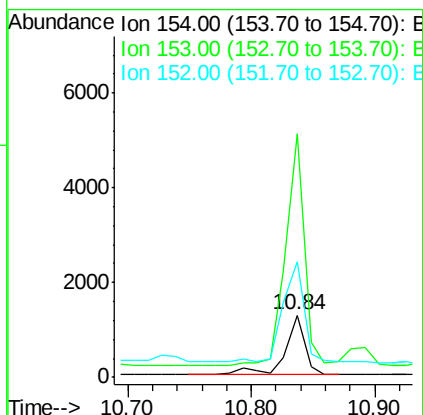
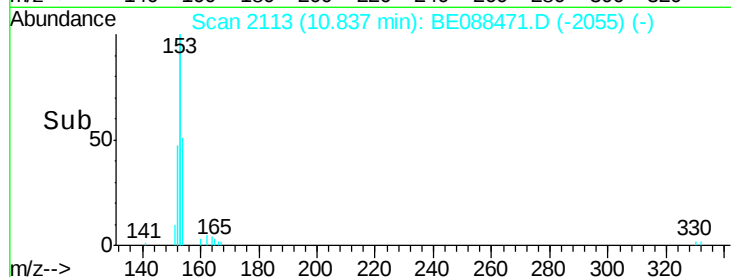
154 100

153 360.6 324.3 486.5

152 180.8 154.9 232.3

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#11

Fluorene

Concen: 0.14 ng

RT: 11.50 min Scan# 2173

Delta R.T. 0.00 min

Lab File: BE088471.D

Acq: 2 Nov 2014 2:32

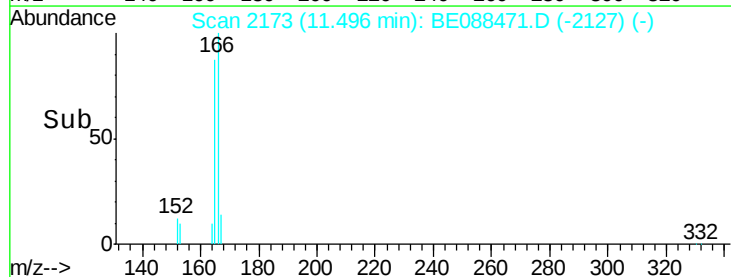
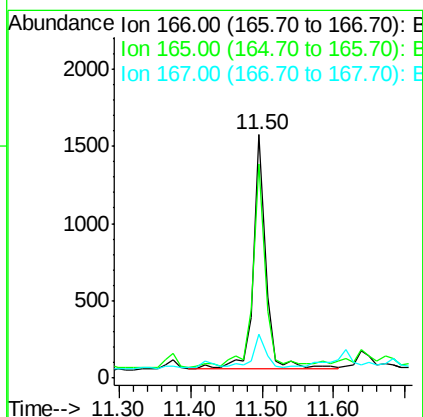
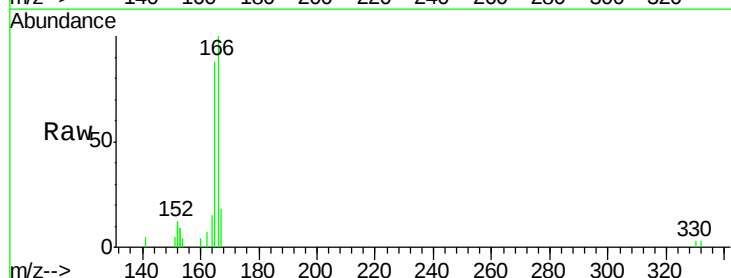
Tgt Ion:166 Resp: 1810

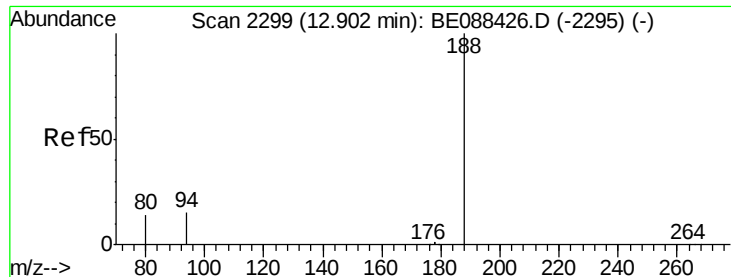
Ion Ratio Lower Upper

166 100

165 87.6 71.3 106.9

167 14.4 10.7 16.1





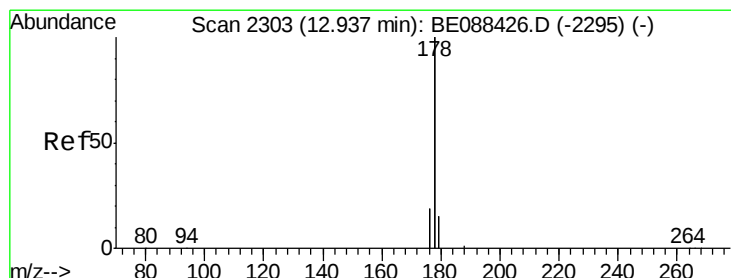
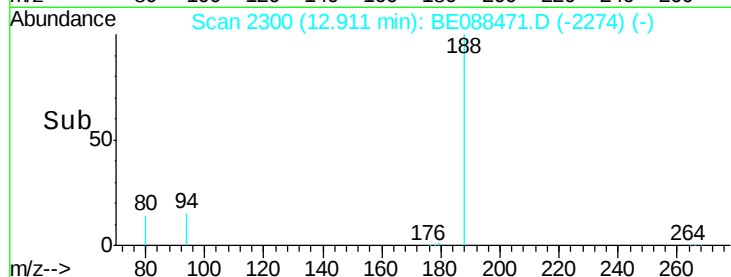
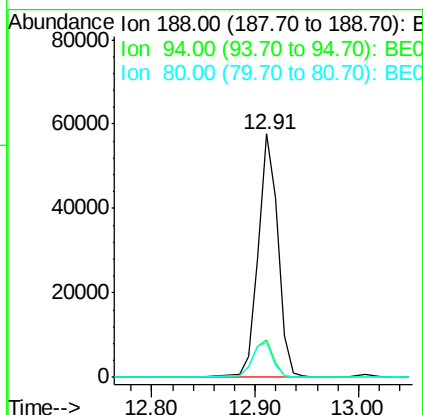
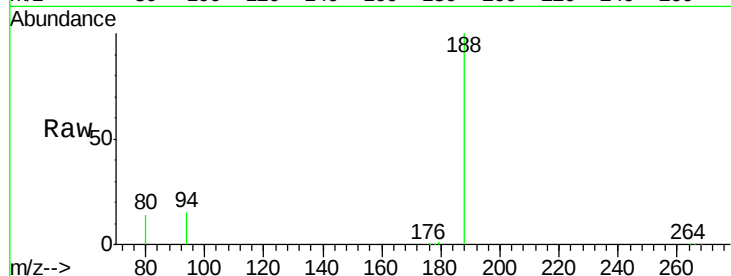
#12
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.91 min Scan# 2300
Delta R.T. 0.01 min
Lab File: BE088471.D
Acq: 2 Nov 2014 2:32

Instrument :
BNA_E
ClientSampleId :
YS19-SS32-1014DL

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	15.4	11.8	17.8
80	14.1	10.9	16.3

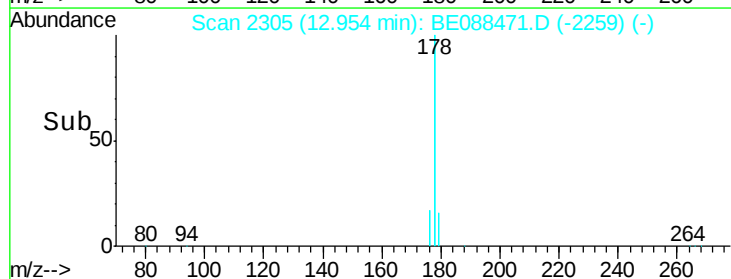
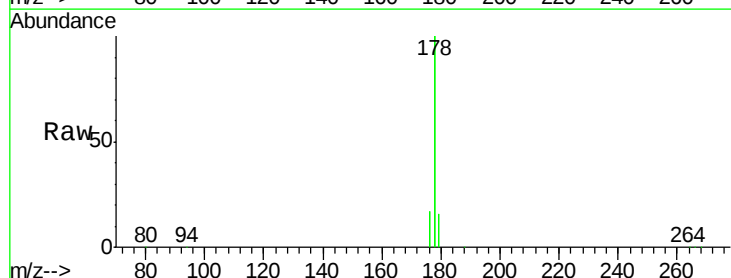
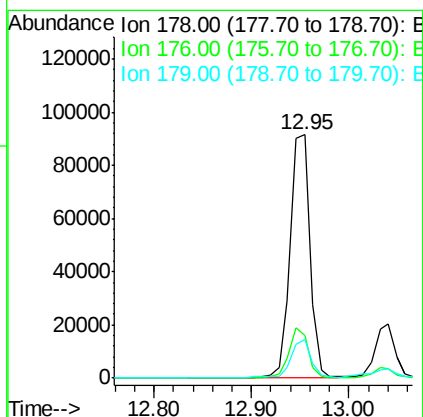
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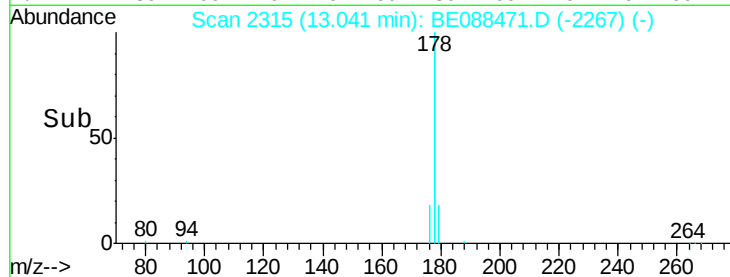
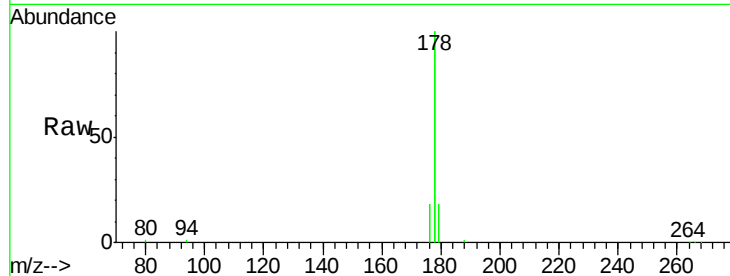
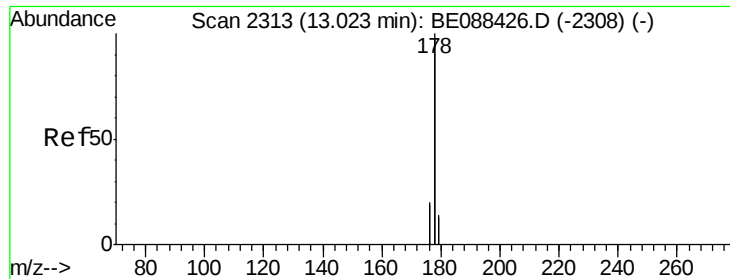
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#13
Phenanthrene
Concen: 1.85 ng
RT: 12.95 min Scan# 2305
Delta R.T. 0.02 min
Lab File: BE088471.D
Acq: 2 Nov 2014 2:32

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	20.1	15.4	23.2
179	16.8	12.8	19.2





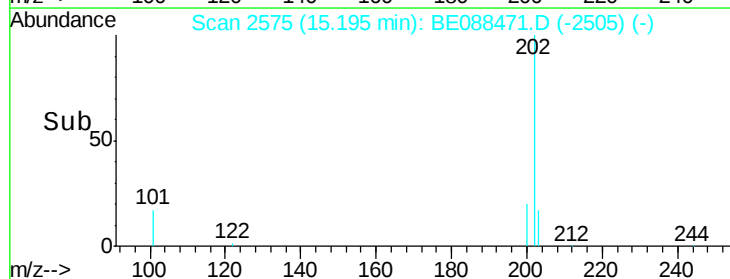
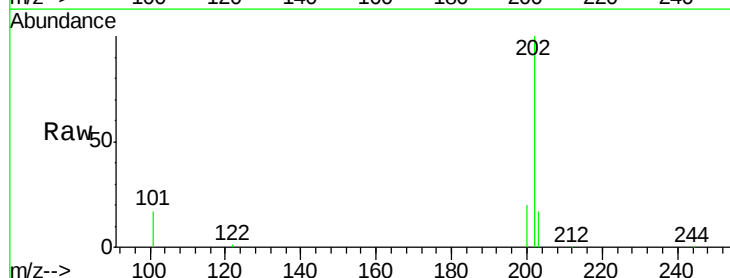
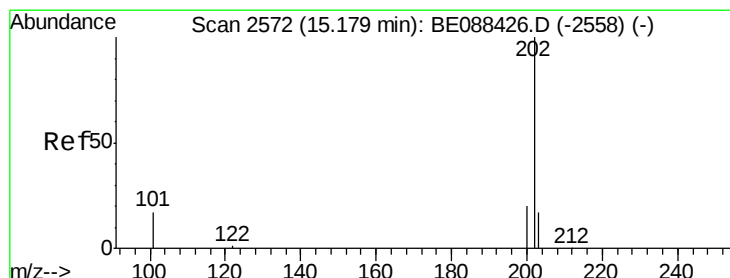
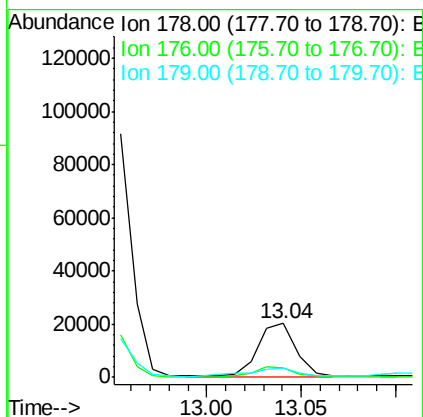
#14
 Anthracene
 Concen: 0.42 ng m
 RT: 13.04 min Scan# 2315
 Delta R.T. 0.02 min
 Lab File: BE088471.D
 Acq: 2 Nov 2014 2:32

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS32-1014DL

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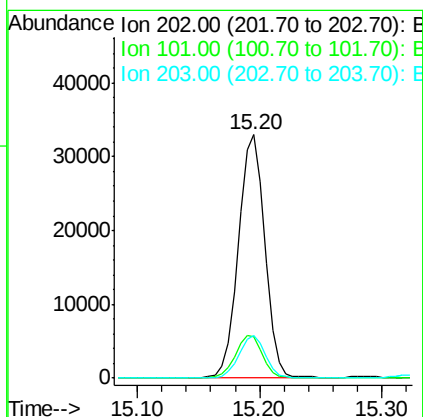
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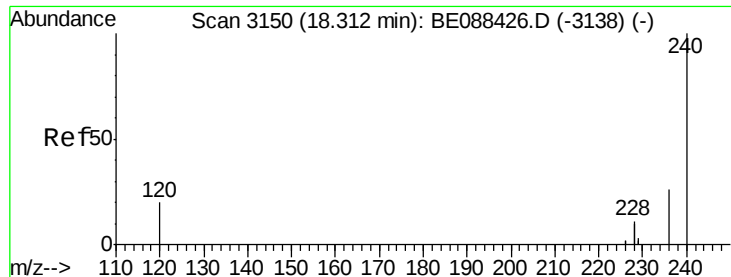
Tgt Ion	Ratio	Lower	Upper
178	100		
176	109.9	15.0	22.4#
179	92.2	12.5	18.7#



#15
 Fluoranthene
 Concen: 3.47 ng
 RT: 15.20 min Scan# 2575
 Delta R.T. 0.02 min
 Lab File: BE088471.D
 Acq: 2 Nov 2014 2:32

Tgt Ion	Ratio	Lower	Upper
202	100		
101	17.6	14.3	21.5
203	17.1	13.6	20.4





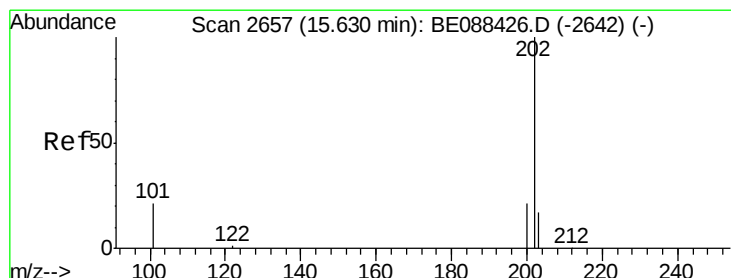
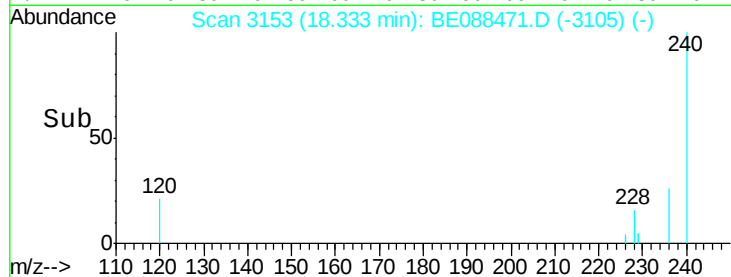
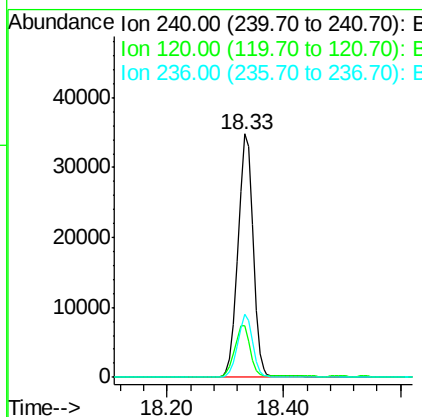
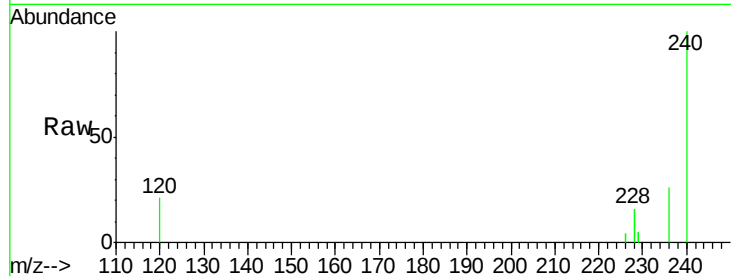
#16
Chrysene-d12
Concen: 5.00 ng
RT: 18.33 min Scan# 3153
Delta R.T. 0.02 min
Lab File: BE088471.D
Acq: 2 Nov 2014 2:32

Instrument :
BNA_E
ClientSampleId :
YS19-SS32-1014DL

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	61069		
120	21.3	16.4	24.6	
236	26.1	20.5	30.7	

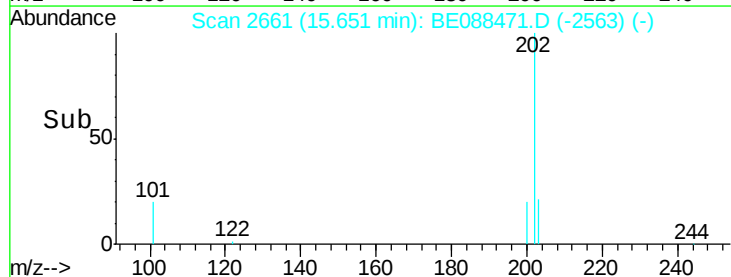
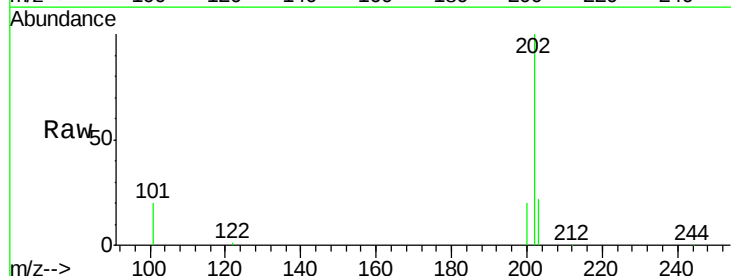
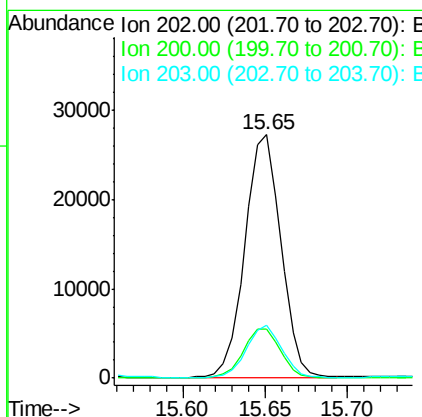
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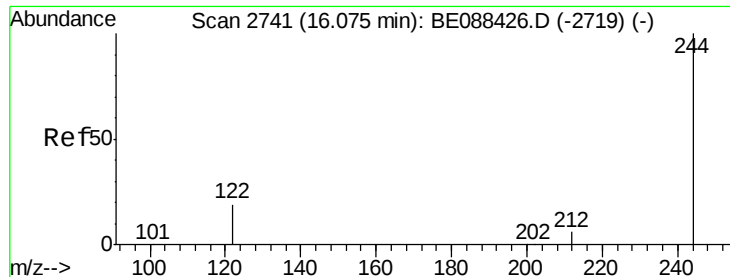
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#17
Pyrene
Concen: 2.08 ng m
RT: 15.65 min Scan# 2661
Delta R.T. 0.02 min
Lab File: BE088471.D
Acq: 2 Nov 2014 2:32

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	41478		
200	23.6	16.1	24.1	
203	20.4	13.8	20.8	





#18

Terphenyl-d14

Concen: 9.64 ng

RT: 16.09 min Scan# 2744

Delta R.T. 0.02 min

Lab File: BE088471.D

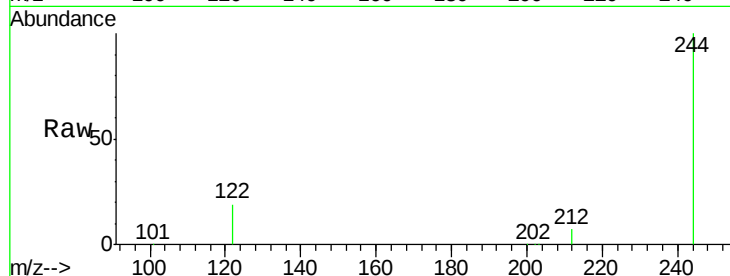
Acq: 2 Nov 2014 2:32

Instrument :

BNA_E

ClientSampleId :

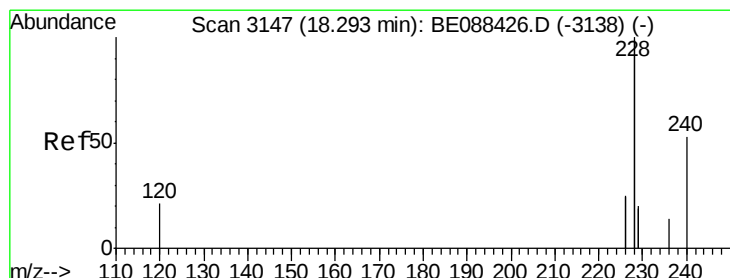
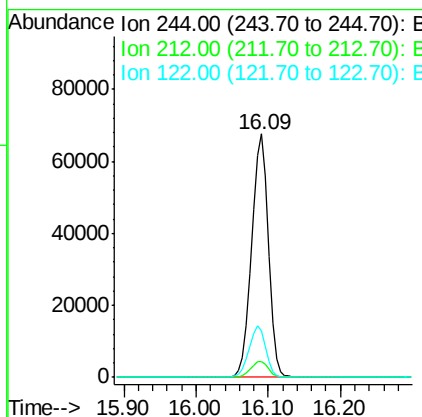
YS19-SS32-1014DL



Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.5	8.3
122	19.2	15.6	23.4

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#19

Benzo(a)anthracene

Concen: 1.46 ng

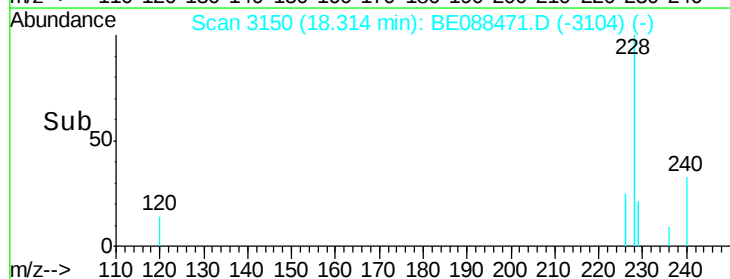
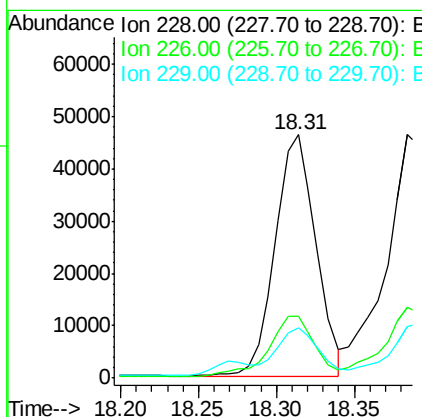
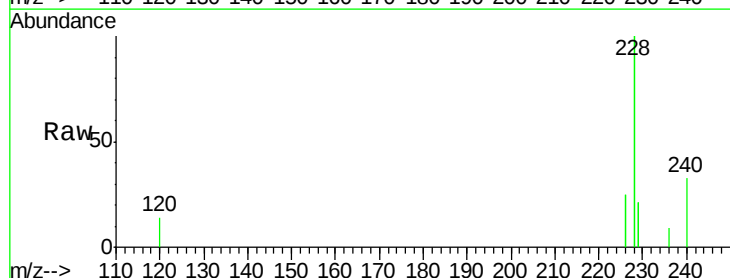
RT: 18.31 min Scan# 3150

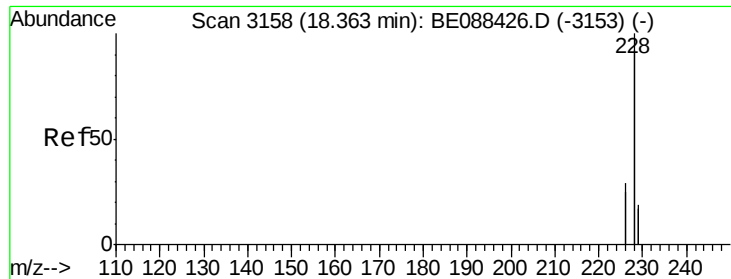
Delta R.T. 0.02 min

Lab File: BE088471.D

Acq: 2 Nov 2014 2:32

Tgt Ion	Ratio	Lower	Upper
228	100		
226	25.4	19.8	29.6
229	20.9	16.0	24.0





#20

Chrysene

Concen: 1.65 ng

RT: 18.38 min Scan# 3161

Delta R.T. 0.02 min

Lab File: BE088471.D

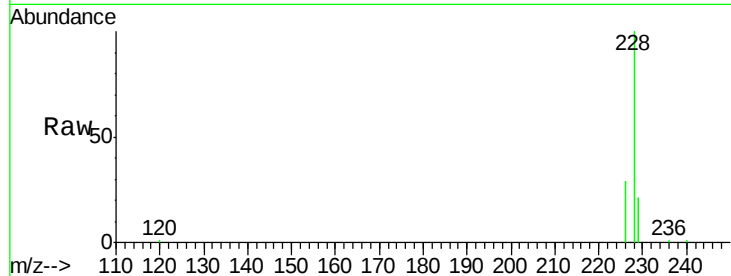
Acq: 2 Nov 2014 2:32

Instrument :

BNA_E

ClientSampleId :

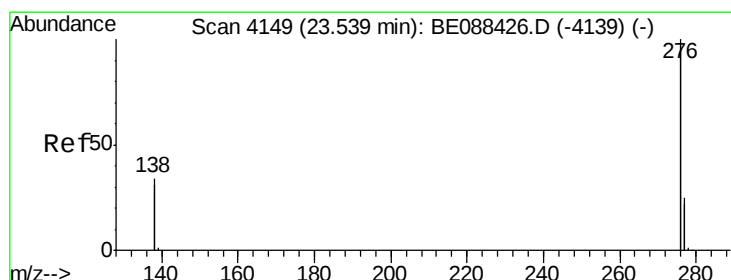
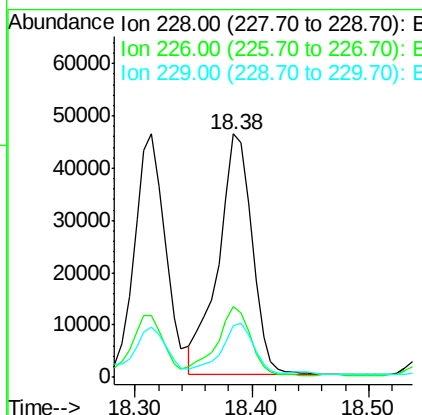
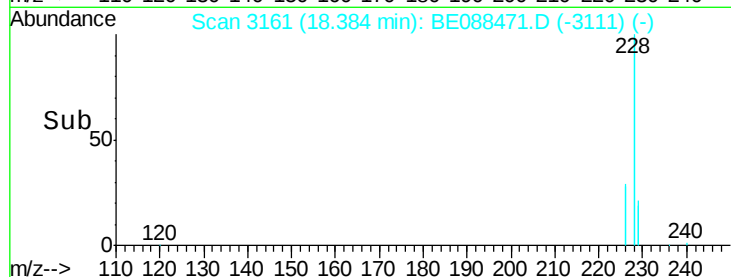
YS19-SS32-1014DL



Tgt Ion:	228	Resp:	93004
Ion Ratio	Lower	Upper	
228	100		
226	29.3	23.6	35.4
229	21.2	15.4	23.2

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#21

Indeno(1,2,3-cd)pyrene

Concen: 1.02 ng m

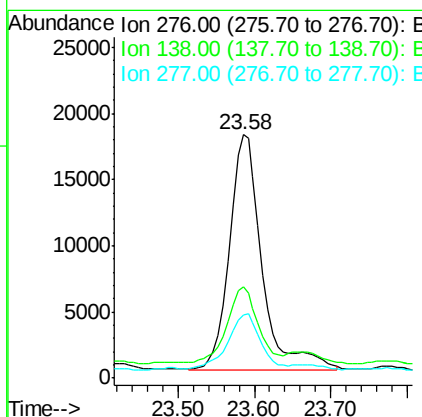
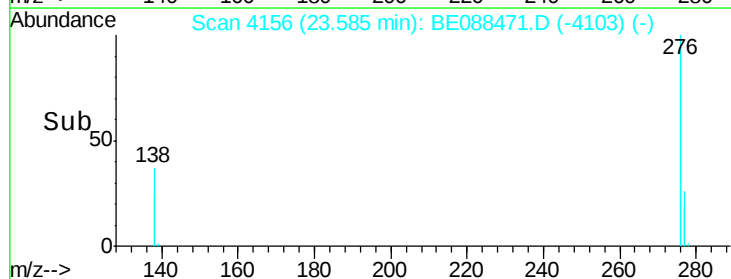
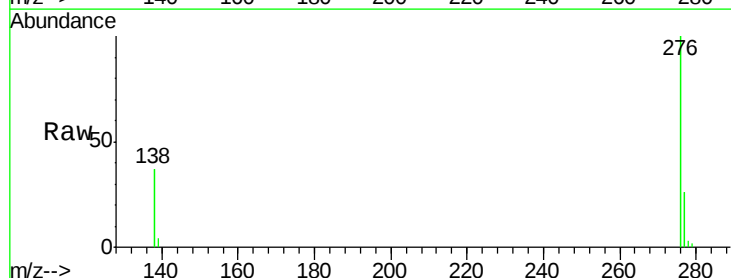
RT: 23.58 min Scan# 4156

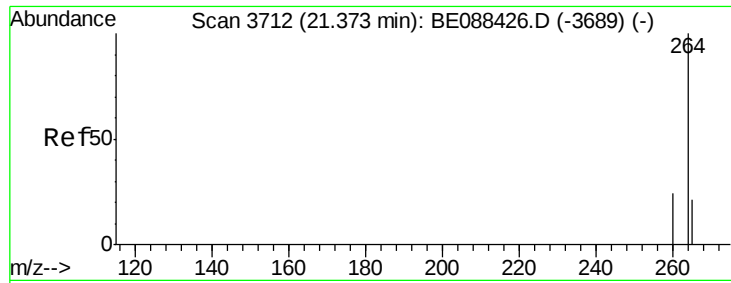
Delta R.T. 0.05 min

Lab File: BE088471.D

Acq: 2 Nov 2014 2:32

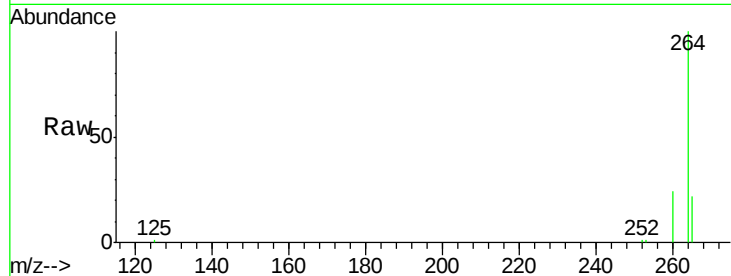
Tgt Ion:	276	Resp:	53568
Ion Ratio	Lower	Upper	
276	100		
138	31.8	20.2	30.2#
277	22.4	14.8	22.2#





#22
Perylene-d12
Concen: 5.00 ng
RT: 21.40 min Scan# 3718
Delta R.T. 0.03 min
Lab File: BE088471.D
Acq: 2 Nov 2014 2:32

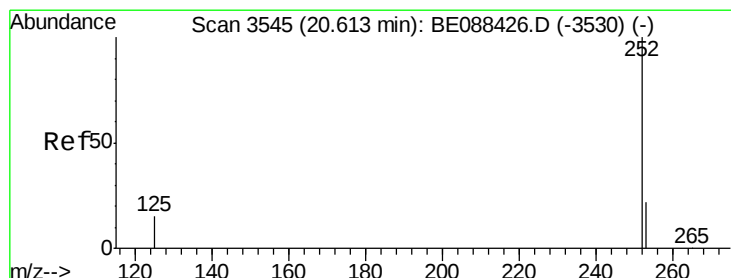
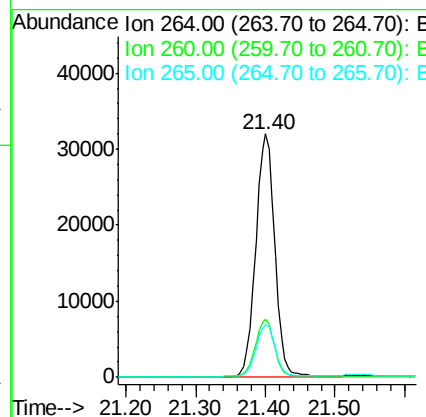
Instrument :
BNA_E
ClientSampleId :
YS19-SS32-1014DL



Tgt Ion: 264 Resp: 59909
Ion Ratio Lower Upper
264 100
260 24.0 18.9 28.3
265 21.6 17.2 25.8

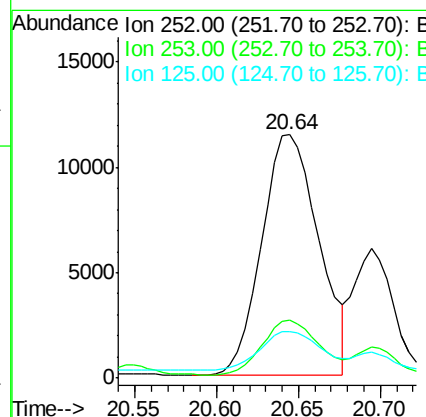
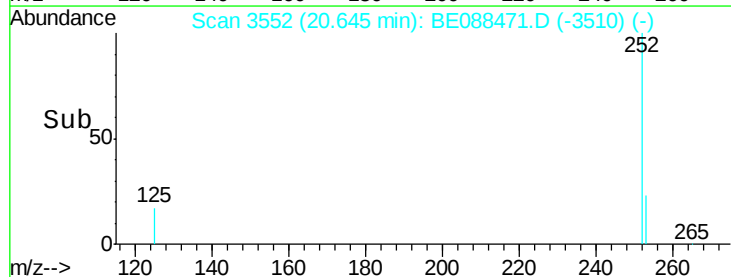
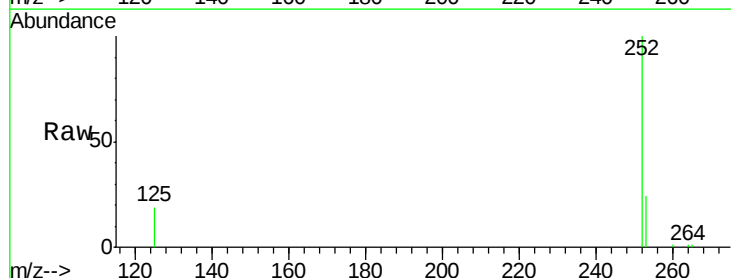
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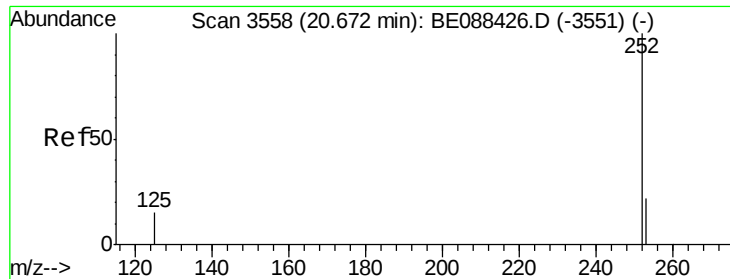
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#23
Benzo(b)fluoranthene
Concen: 2.11 ng
RT: 20.64 min Scan# 3552
Delta R.T. 0.03 min
Lab File: BE088471.D
Acq: 2 Nov 2014 2:32

Tgt Ion: 252 Resp: 27773
Ion Ratio Lower Upper
252 100
253 23.6 17.8 26.8
125 19.2 12.3 18.5#





#24

Benzo(k)fluoranthene

Concen: 0.71 ng

RT: 20.69 min Scan# 3563

Delta R.T. 0.02 min

Lab File: BE088471.D

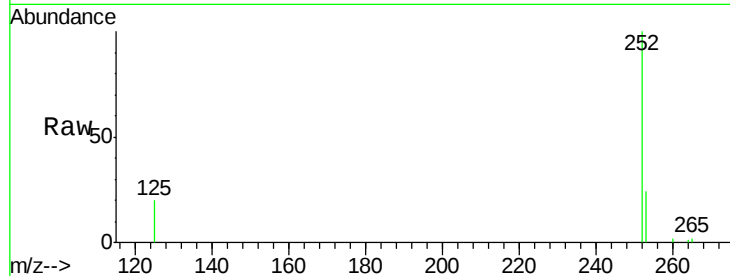
Acq: 2 Nov 2014 2:32

Instrument :

BNA_E

ClientSampleId :

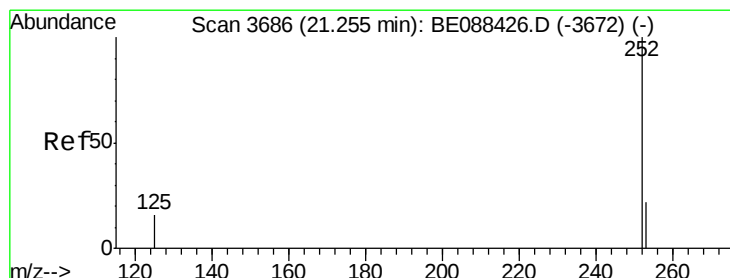
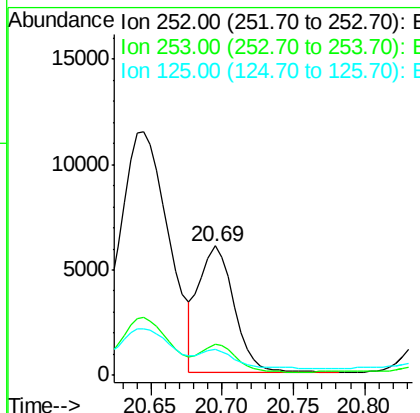
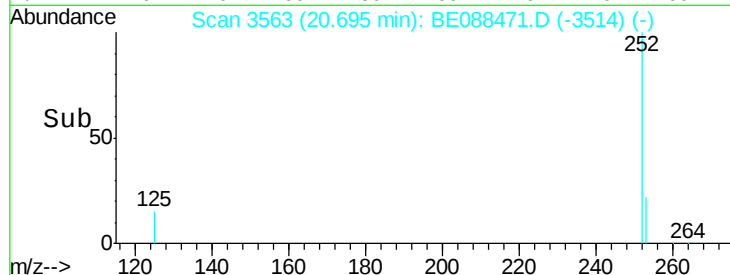
YS19-SS32-1014DL



Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.8	26.8
125	20.5	12.2	18.4

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#25

Benzo(a)pyrene

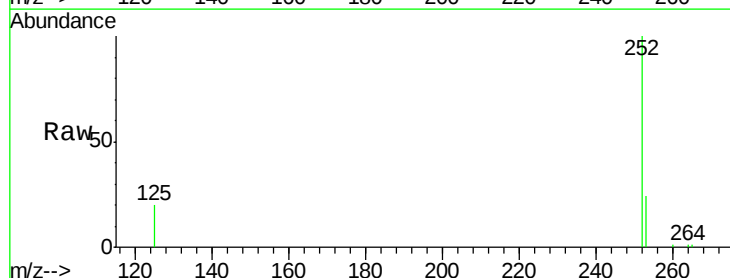
Concen: 1.43 ng

RT: 21.28 min Scan# 3692

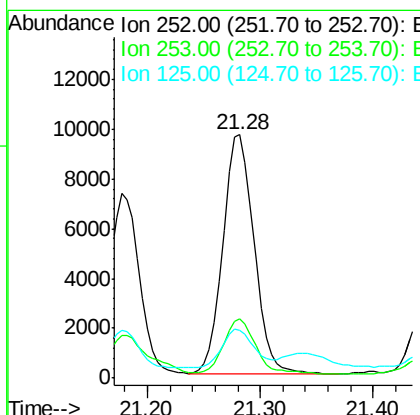
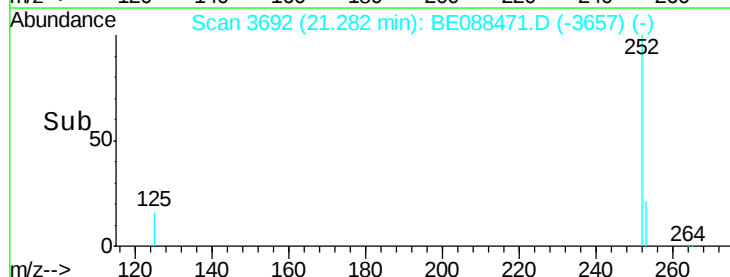
Delta R.T. 0.03 min

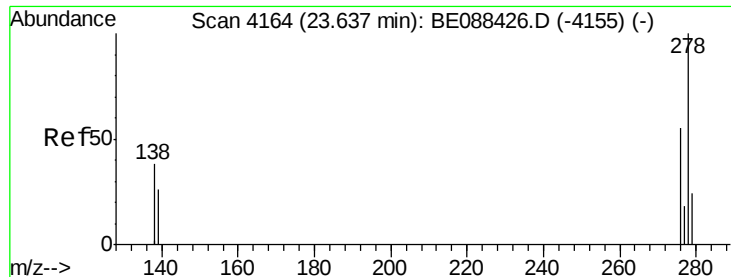
Lab File: BE088471.D

Acq: 2 Nov 2014 2:32



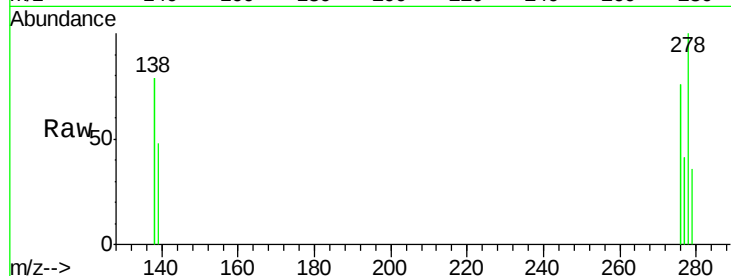
Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.3	18.2	27.4
125	19.9	13.7	20.5





#26
Dibenzo(a,h)anthracene
Concen: 0.27 ng
RT: 23.67 min Scan# 4169
Delta R.T. 0.03 min
Lab File: BE088471.D
Acq: 2 Nov 2014 2:32

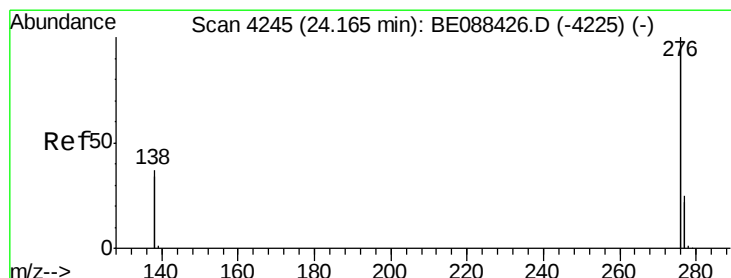
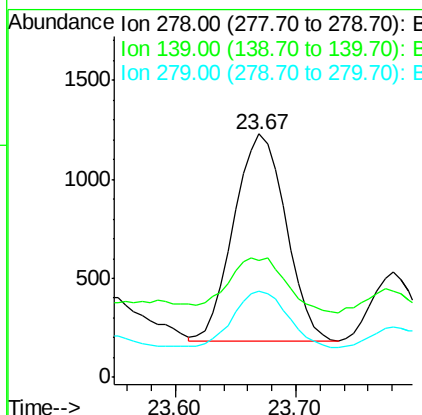
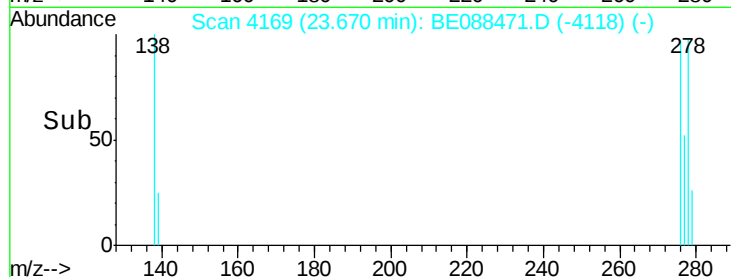
Instrument :
BNA_E
ClientSampleId :
YS19-SS32-1014DL



Tgt Ion	Ratio	Lower	Upper
278	100		
139	48.0	22.1	33.1#
279	35.6	19.7	29.5#

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#27
Benzo(g,h,i)perylene
Concen: 0.89 ng
RT: 24.22 min Scan# 4253
Delta R.T. 0.05 min
Lab File: BE088471.D
Acq: 2 Nov 2014 2:32

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.0	19.8	29.6
138	40.1	29.3	43.9

