

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE070215\
 Data File : BE090052.D
 Acq On : 2 Jul 2015 15:03
 Operator : TP/IZ
 Sample : G2824-01DL 25X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 X1SS0650006-150626DL

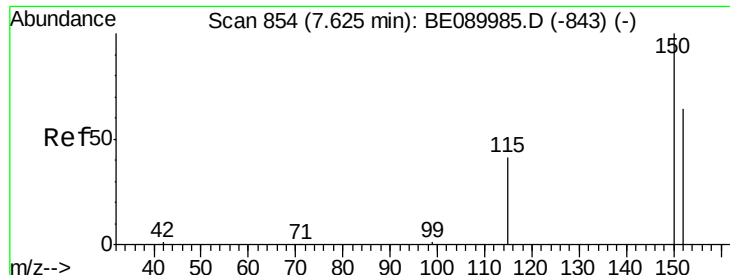
Manual Integrations
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Quant Time: Jul 03 01:36:27 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-SIM-BE062915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 30 07:01:01 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.61	152	13439	5.00	ng	-0.02
6) Naphthalene-d8	10.37	136	63140	5.00	ng	-0.02
12) Acenaphthene-d10	14.22	164	37122	5.00	ng	-0.01
18) Phenanthrene-d10	16.96	188	82398	5.00	ng	-0.02
25) Chrysene-d12	21.12	240	98440	5.00	ng	-0.01
32) Perylene-d12	23.44	264	90784	5.00	ng	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.24	112	864	0.28	ng	-0.01
5) Phenol-d6	6.79	99	1583	0.37	ng	-0.01
7) Nitrobenzene-d5	8.75	82	1036	0.21	ng	-0.01
13) 2,4,6-Tribromophenol	15.73	330	229	0.21	ng	0.00
14) 2-Fluorobiphenyl	12.85	172	3120	0.28	ng	-0.01
27) Terphenyl-d14	19.58	244	4666	0.28	ng	-0.01
Target Compounds						Qvalue
8) Nitrobenzene	8.79	77	400	0.08	ng	99
9) Naphthalene	10.41	128	2183	0.15	ng	# 92
10) Hexachlorobutadiene	10.71	225	132	0.06	ng	93
11) 2-Methylnaphthalene	12.03	142	1430	0.15	ng	99
15) Acenaphthylene	13.94	152	9756	0.15	ng	99
16) Acenaphthene	14.28	154	2194	0.23	ng	92
17) Fluorene	15.27	166	2829	0.22	ng	# 93
20) Hexachlorobenzene	16.28	284	2288	0.16	ng	# 91
21) Pentachlorophenol	16.63	266	458	0.50	ng	92
22) Phenanthrene	17.00	178	37401	1.77	ng	100
23) Anthracene	17.10	178	10271m	0.53	ng	
24) Fluoranthene	19.01	202	83320	3.53	ng	100
26) Pyrene	19.37	202	77027	3.28	ng	98
28) Benzo(a)anthracene	21.10	228	53173	2.16	ng	100
29) Chrysene	21.16	228	54682	2.14	ng	98
30) Bis(2-ethylhexyl)phthalate	21.05	149	779	0.37	ng	# 99
31) Indeno(1,2,3-cd)pyrene	25.83	276	26045	1.06	ng	97
33) Benzo(b)fluoranthene	22.73	252	59909	2.99	ng	98
34) Benzo(k)fluoranthene	22.77	252	30448m	1.36	ng	
35) Benzo(a)pyrene	23.33	252	42903	2.32	ng	98
36) Dibenzo(a,h)anthracene	25.85	278	8748	0.46	ng	96
37) Benzo(g,h,i)perylene	26.57	276	25905	1.35	ng	98

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



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.61 min Scan# 850

Delta R.T. -0.02 min

Lab File: BE090052.D

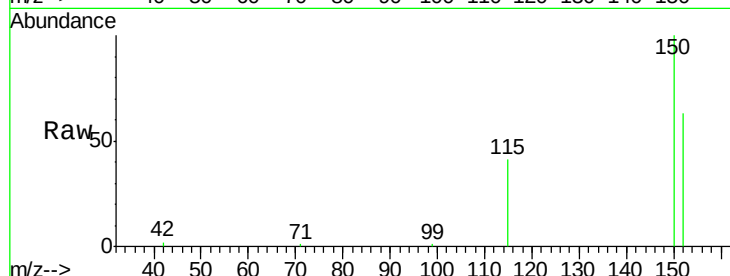
Acq: 2 Jul 2015 15:03

Instrument :

BNA_E

ClientSampleId :

X1SS0650006-150626DL



Tgt Ion:152 Resp: 13439

Ion Ratio Lower Upper

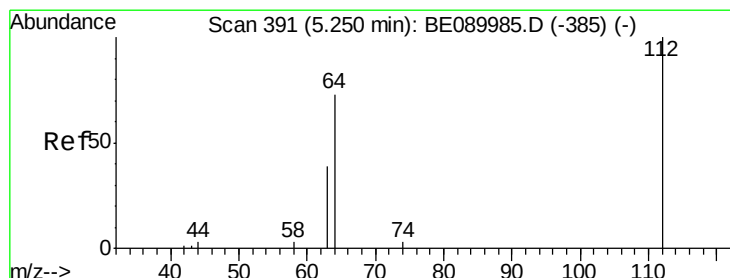
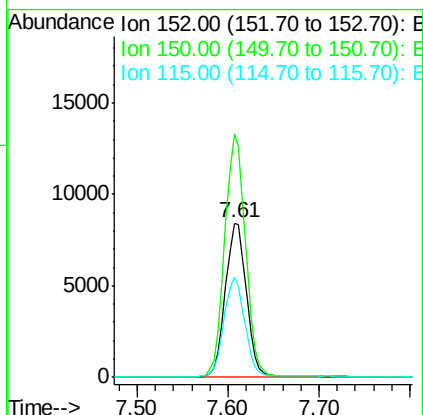
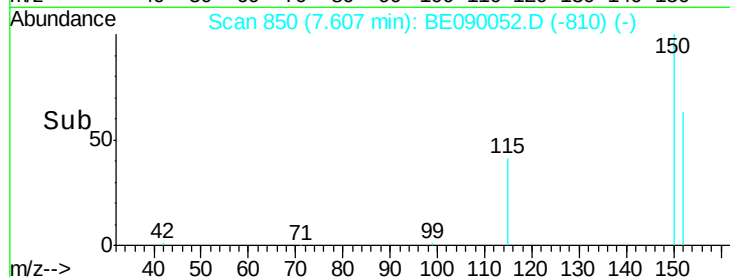
152 100

150 157.9 123.9 185.9

115 65.3 50.6 76.0

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#4

2-Fluorophenol

Concen: 0.28 ng

RT: 5.24 min Scan# 389

Delta R.T. -0.01 min

Lab File: BE090052.D

Acq: 2 Jul 2015 15:03

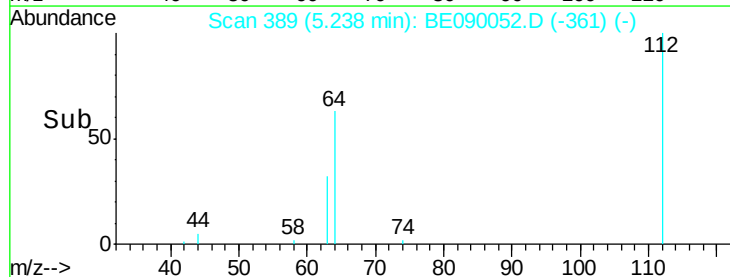
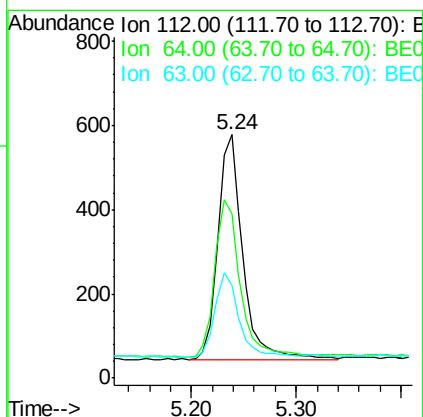
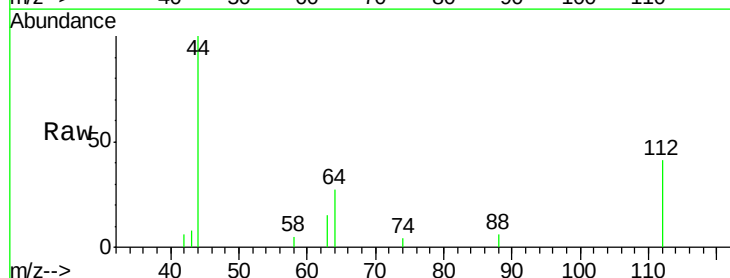
Tgt Ion:112 Resp: 864

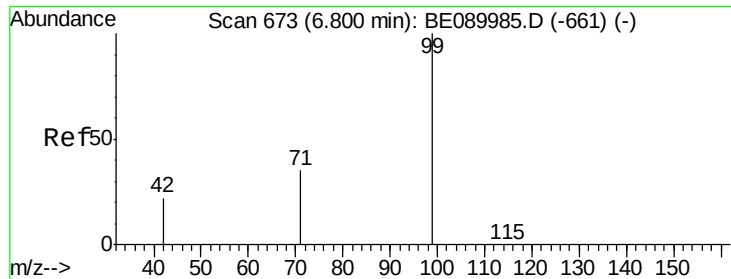
Ion Ratio Lower Upper

112 100

64 72.8 56.3 84.5

63 36.2 29.8 44.6





#5

Phenol-d6

Concen: 0.37 ng

RT: 6.79 min Scan# 670

Delta R.T. -0.01 min

Lab File: BE090052.D

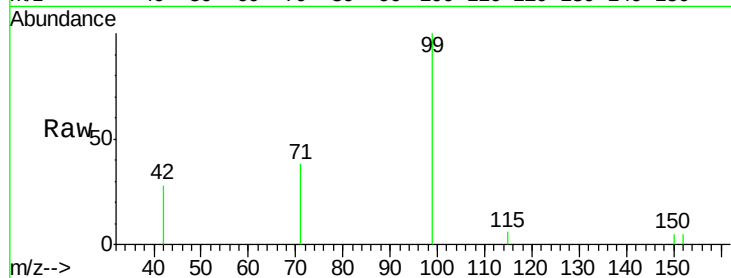
Acq: 2 Jul 2015 15:03

Instrument :

BNA_E

ClientSampleId :

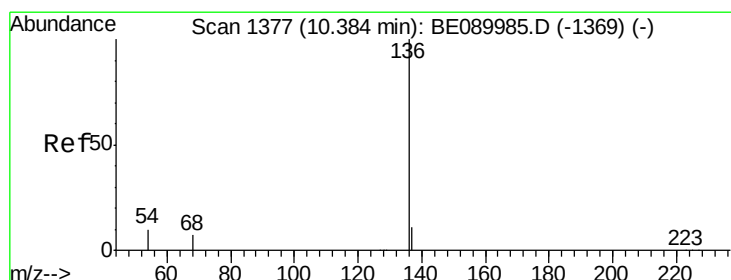
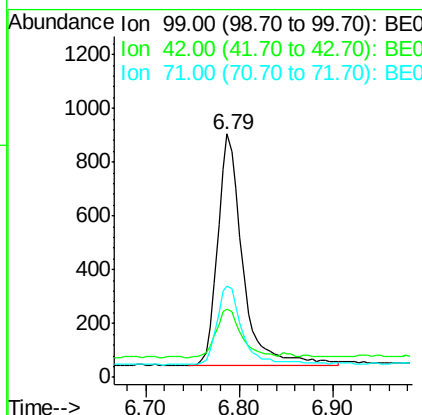
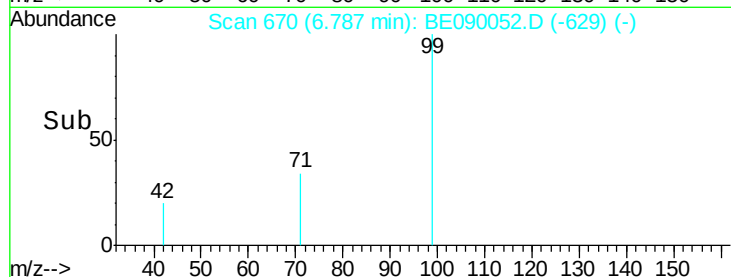
X1SS0650006-150626DL



Tgt Ion:	99	Resp:	1583
Ion	Ratio	Lower	Upper
99	100		
42	20.9	18.7	28.1
71	34.9	27.5	41.3

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#6

Naphthalene-d8

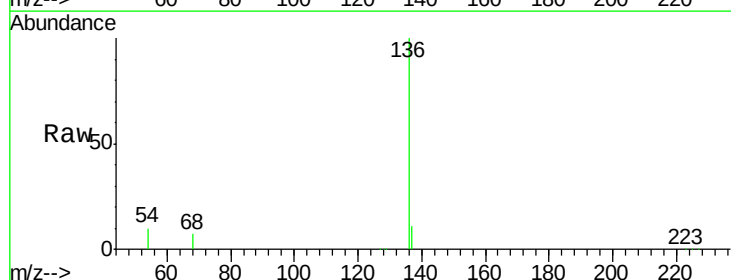
Concen: 5.00 ng

RT: 10.37 min Scan# 1375

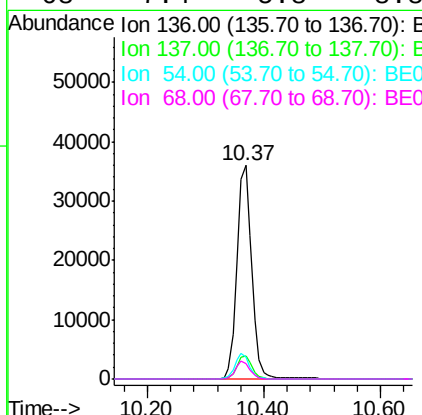
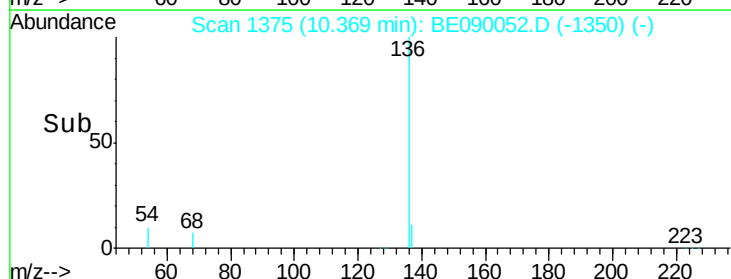
Delta R.T. -0.02 min

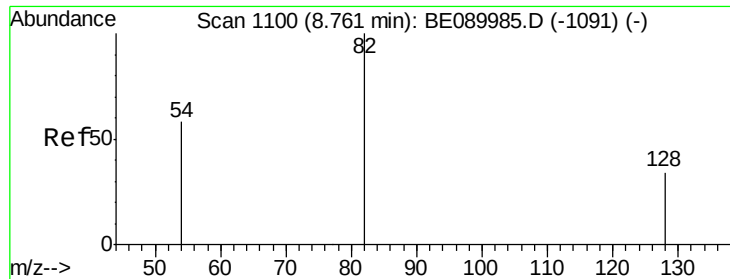
Lab File: BE090052.D

Acq: 2 Jul 2015 15:03



Tgt Ion:	136	Resp:	63140
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	10.1	8.2	12.4
68	7.4	5.8	8.8





#7

Nitrobenzene-d5

Concen: 0.21 ng

RT: 8.75 min Scan# 1097

Delta R.T. -0.01 min

Lab File: BE090052.D

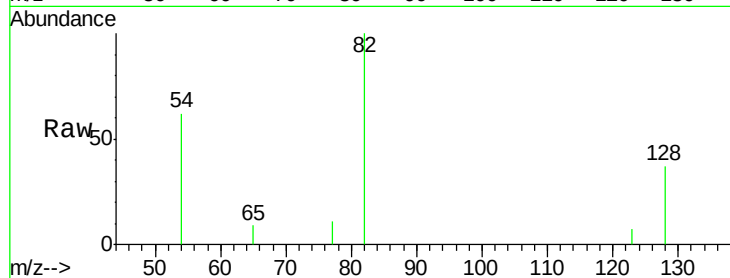
Acq: 2 Jul 2015 15:03

Instrument :

BNA_E

ClientSampleId :

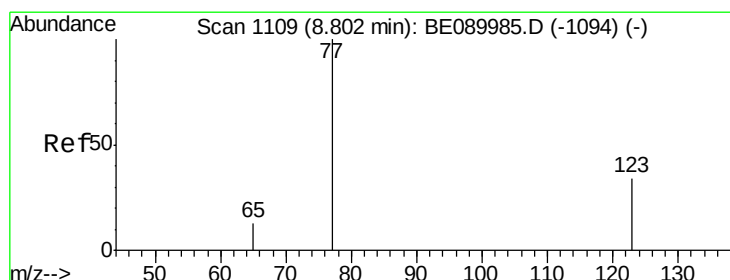
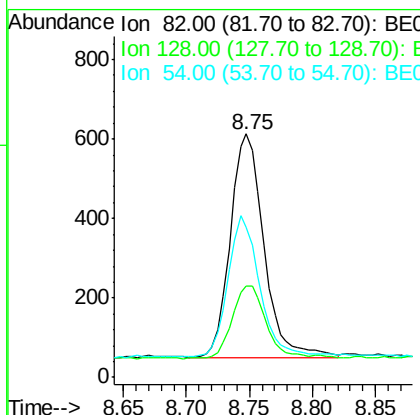
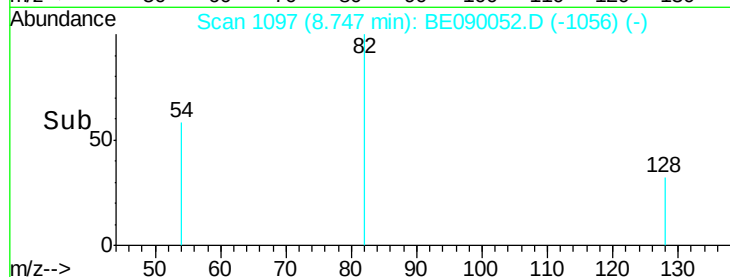
X1SS0650006-150626DL



Tgt Ion	82	Resp:	1036
Ion	Ratio	Lower	Upper
82	100		
128	37.4	28.0	42.0
54	61.8	47.6	71.4

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#8

Nitrobenzene

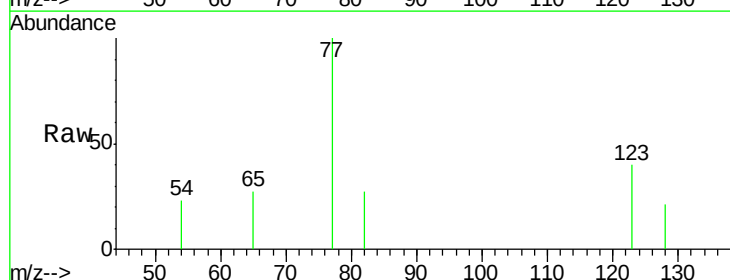
Concen: 0.08 ng

RT: 8.79 min Scan# 1106

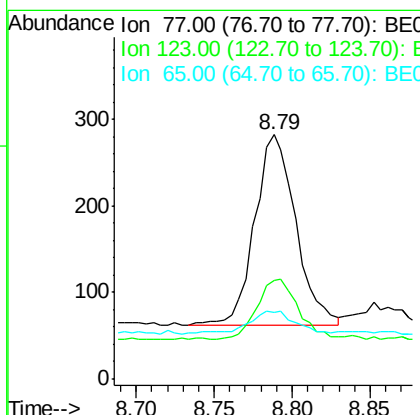
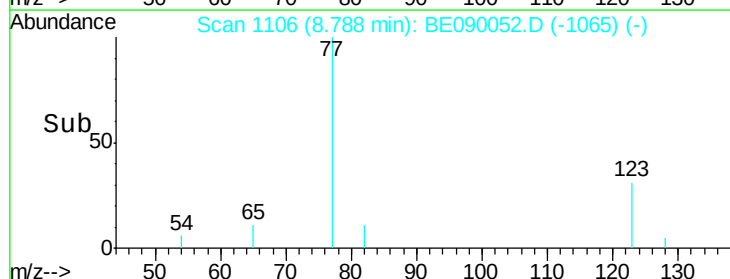
Delta R.T. -0.01 min

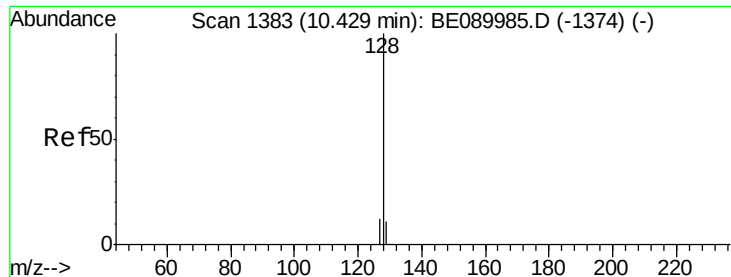
Lab File: BE090052.D

Acq: 2 Jul 2015 15:03



Tgt Ion	77	Resp:	400
Ion	Ratio	Lower	Upper
77	100		
123	33.3	27.4	41.0
65	13.3	10.6	15.8





#9

Naphthalene

Concen: 0.15 ng

RT: 10.41 min Scan# 1381

Delta R.T. -0.02 min

Lab File: BE090052.D

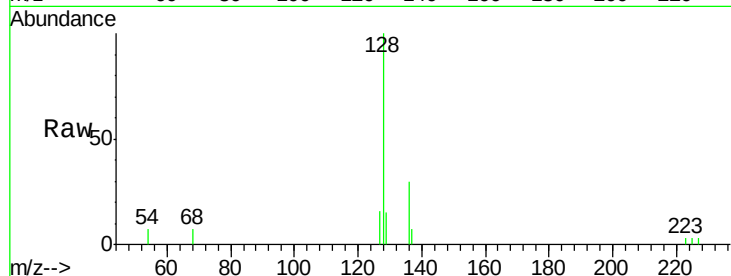
Acq: 2 Jul 2015 15:03

Instrument :

BNA_E

ClientSampleId :

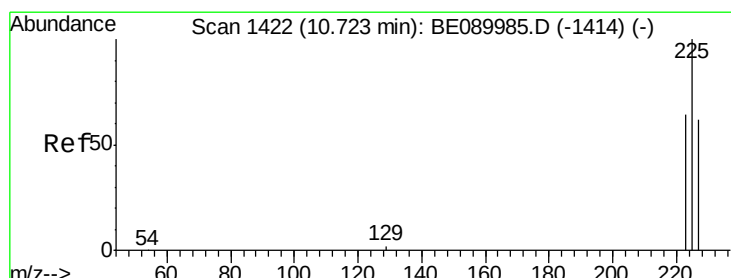
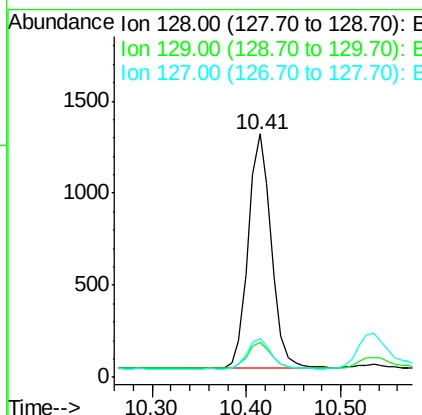
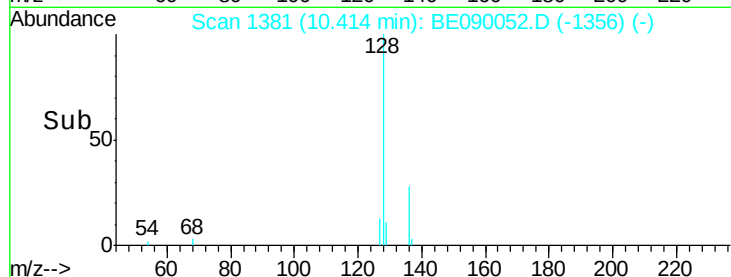
X1SS0650006-150626DL



Tgt Ion	Ratio	Lower	Upper
128	100		
129	14.6	9.3	13.9#
127	16.0	10.2	15.4#

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#10

Hexachlorobutadiene

Concen: 0.06 ng

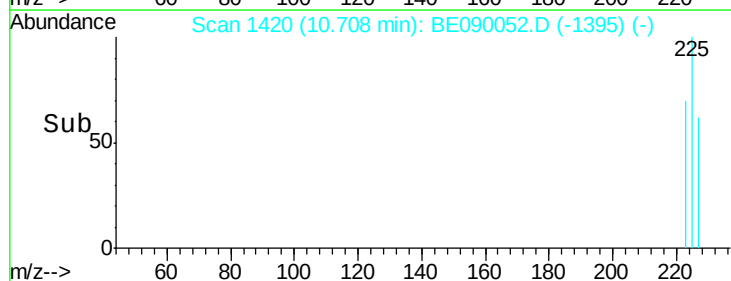
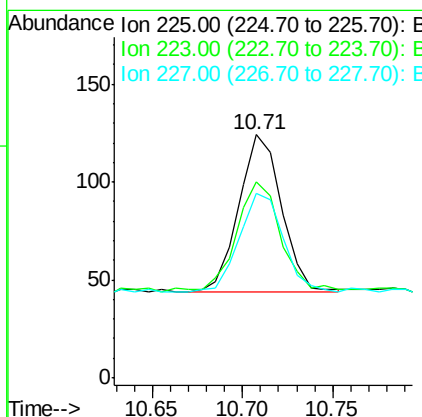
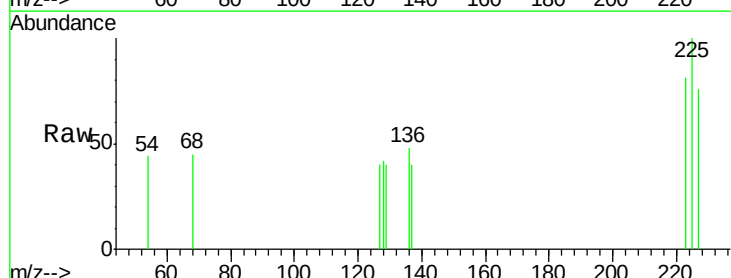
RT: 10.71 min Scan# 1420

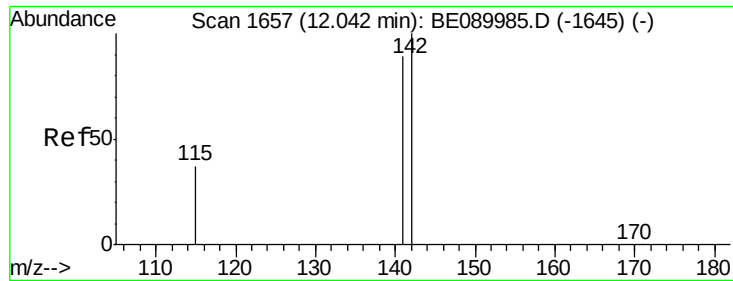
Delta R.T. -0.02 min

Lab File: BE090052.D

Acq: 2 Jul 2015 15:03

Tgt Ion	Ratio	Lower	Upper
225	100		
223	74.2	50.1	75.1
227	63.6	50.9	76.3





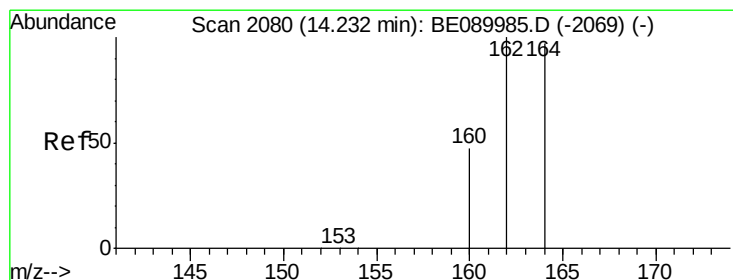
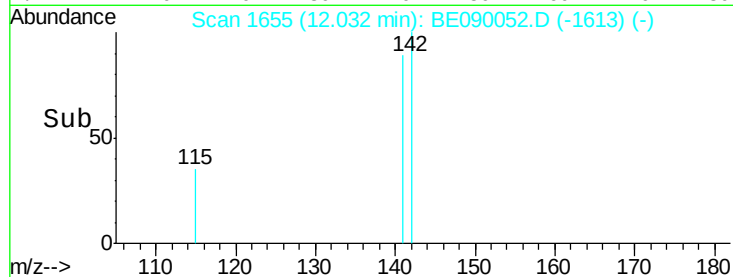
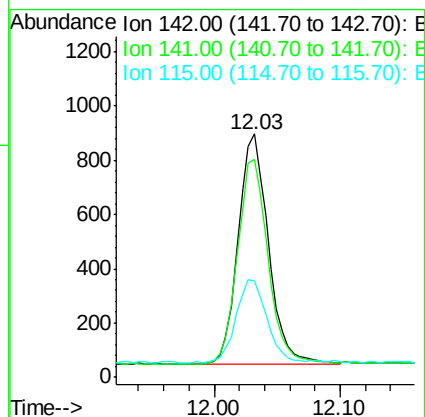
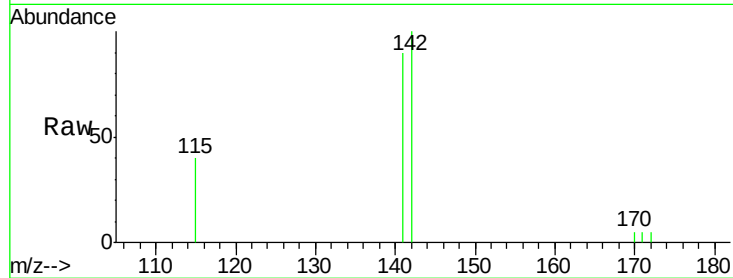
#11
2-Methylnaphthalene
Concen: 0.15 ng
RT: 12.03 min Scan# 1655
Delta R.T. -0.01 min
Lab File: BE090052.D
Acq: 2 Jul 2015 15:03

Instrument :
BNA_E
ClientSampleId :
X1SS0650006-150626DL

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.6	71.3	106.9
115	39.7	30.4	45.6

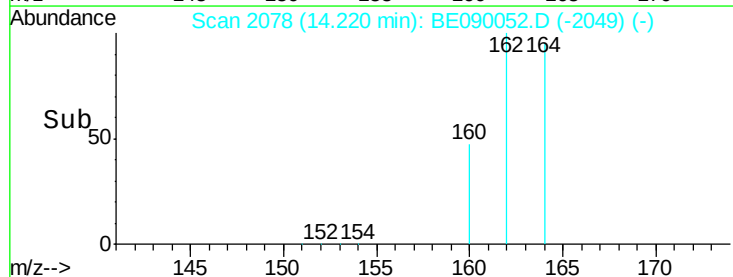
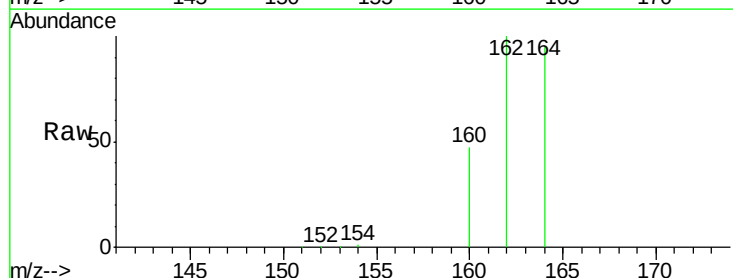
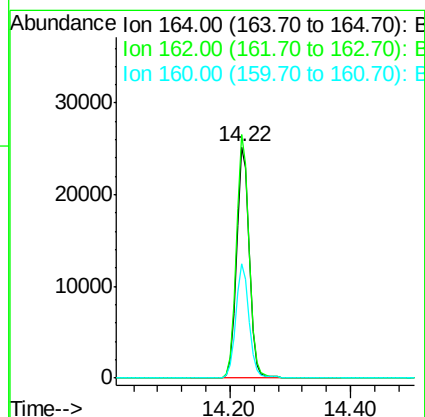
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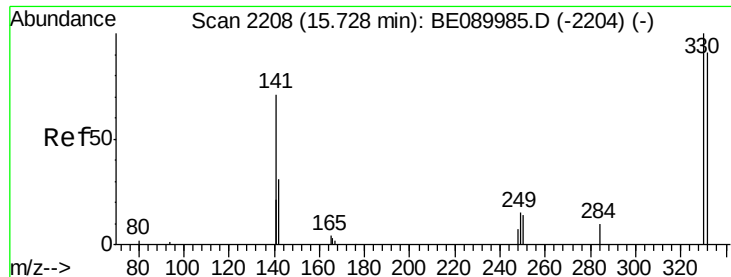
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#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.22 min Scan# 2078
Delta R.T. -0.01 min
Lab File: BE090052.D
Acq: 2 Jul 2015 15:03

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.5	82.2	123.4
160	49.3	39.0	58.6





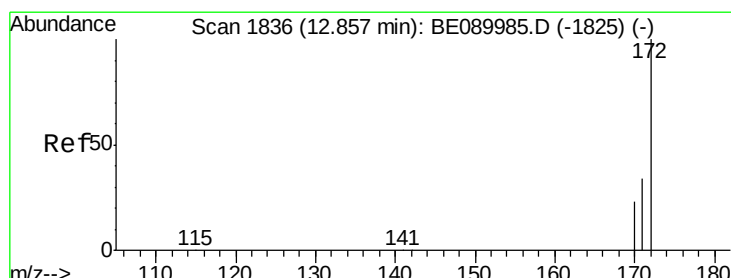
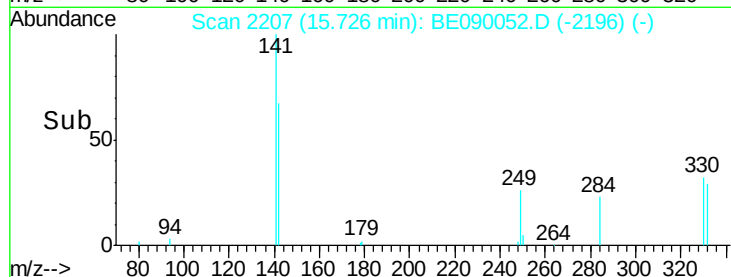
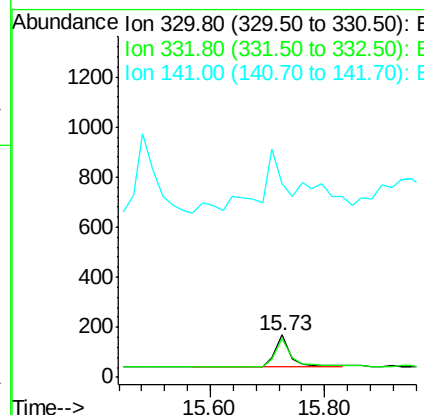
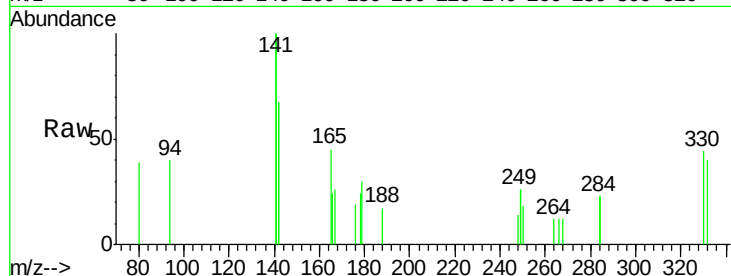
#13
 2,4,6-Tribromophenol
 Concen: 0.21 ng
 RT: 15.73 min Scan# 2207
 Delta R.T. -0.00 min
 Lab File: BE090052.D
 Acq: 2 Jul 2015 15:03

Instrument :
 BNA_E
 ClientSampleId :
 X1SS0650006-150626DL

Tgt Ion	Ratio	Lower	Upper
330	100		
332	93.9	76.4	114.6
141	341.0	130.3	195.5#

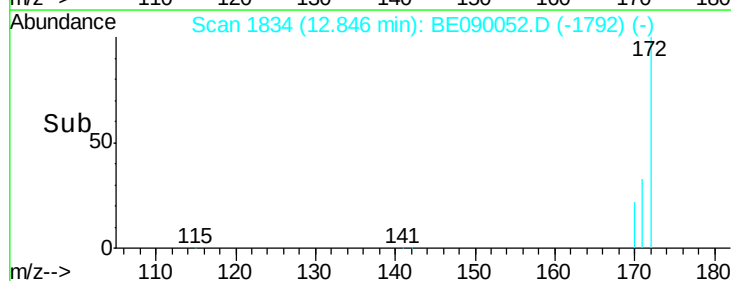
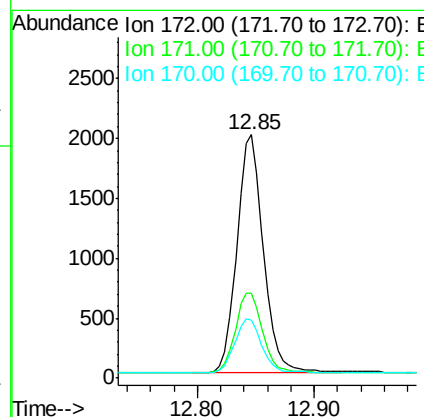
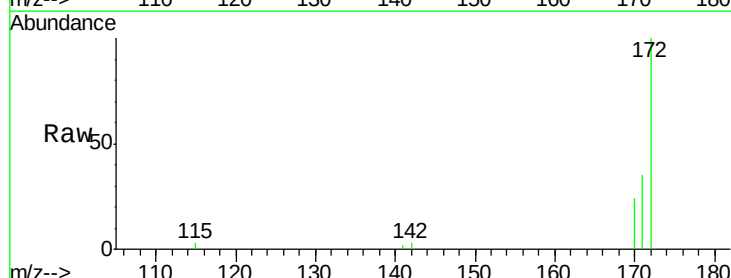
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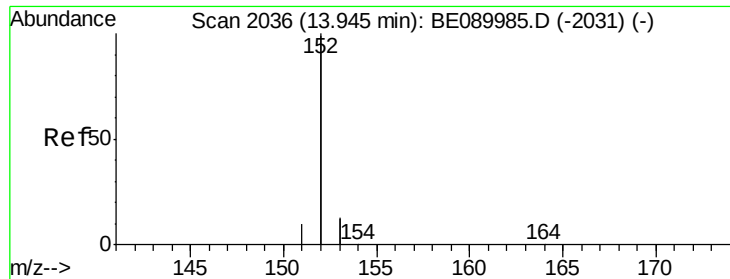
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#14
 2-Fluorobiphenyl
 Concen: 0.28 ng
 RT: 12.85 min Scan# 1834
 Delta R.T. -0.01 min
 Lab File: BE090052.D
 Acq: 2 Jul 2015 15:03

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.8	27.8	41.6
170	23.9	18.3	27.5





#15

Acenaphthylene

Concen: 0.15 ng

RT: 13.94 min Scan# 2035

Delta R.T. -0.01 min

Lab File: BE090052.D

Acq: 2 Jul 2015 15:03

Instrument :

BNA_E

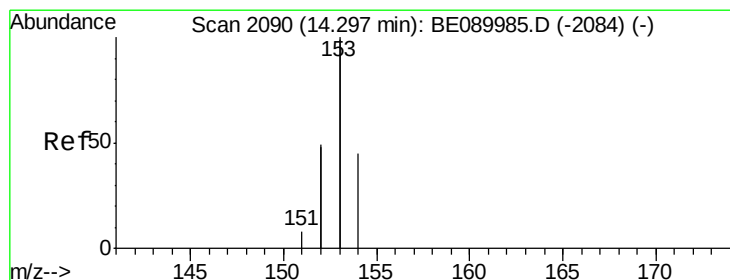
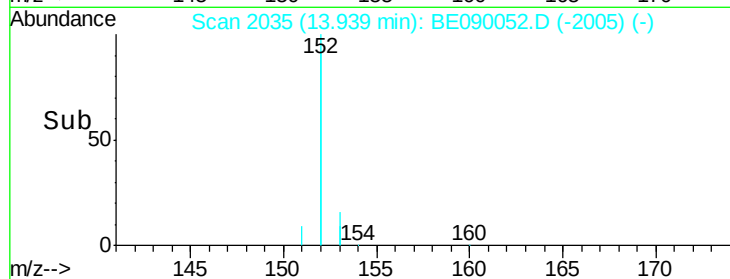
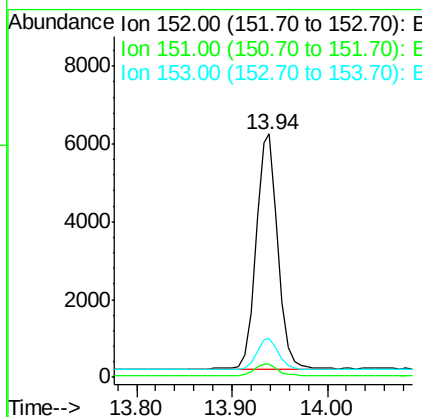
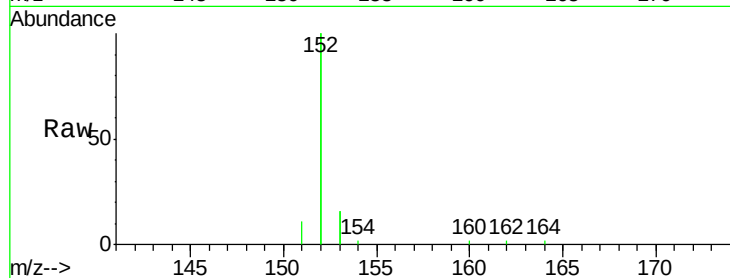
ClientSampleId :

X1SS0650006-150626DL

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Tgt Ion	Ratio	Lower	Upper
152	100		
151	5.0	3.9	5.9
153	13.3	10.4	15.6



#16

Acenaphthene

Concen: 0.23 ng

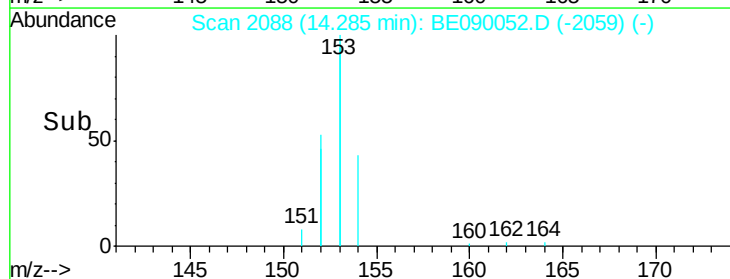
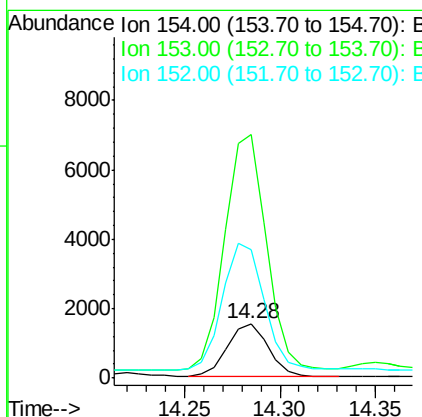
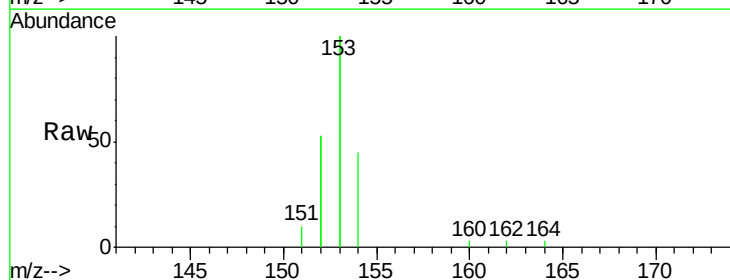
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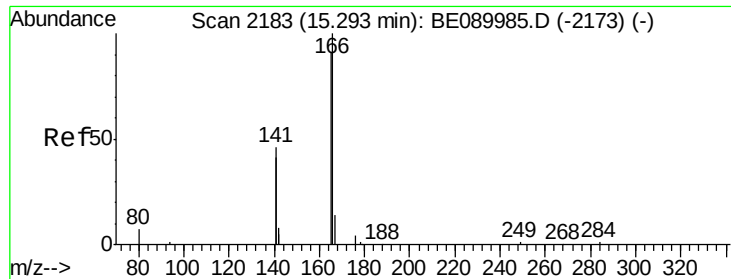
Delta R.T. -0.01 min

Lab File: BE090052.D

Acq: 2 Jul 2015 15:03

Tgt Ion	Ratio	Lower	Upper
154	100		
153	464.9	358.6	538.0
152	257.2	189.6	284.4





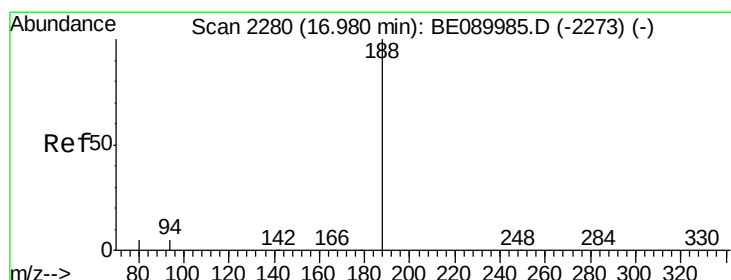
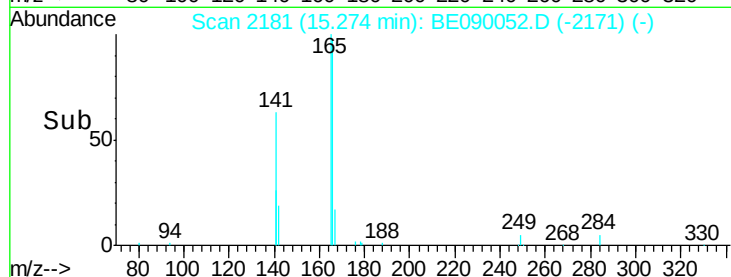
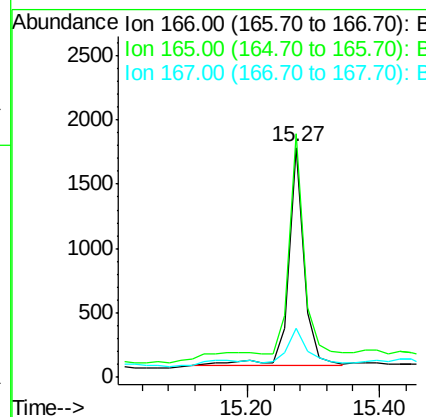
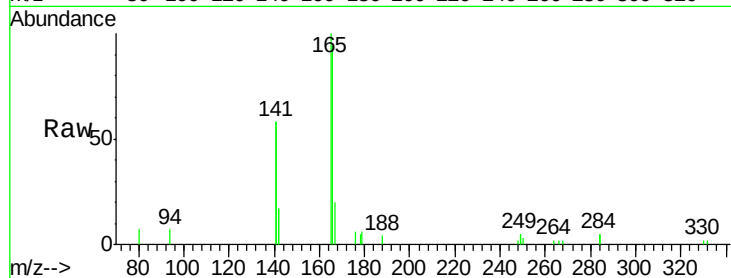
#17
Fluorene
Concen: 0.22 ng
RT: 15.27 min Scan# 2181
Delta R.T. -0.02 min
Lab File: BE090052.D
Acq: 2 Jul 2015 15:03

Instrument :
BNA_E
ClientSampleId :
X1SS0650006-150626DL

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	2829		
165	93.1	79.0	118.6	
167	20.1	11.8	17.8#	

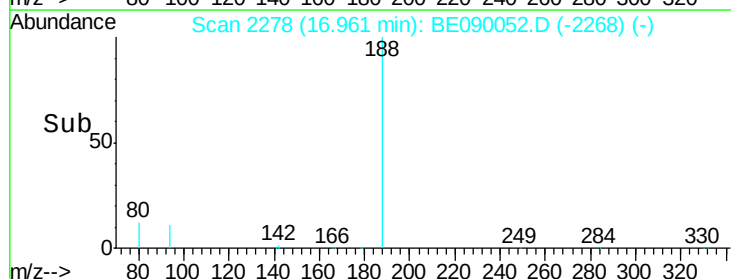
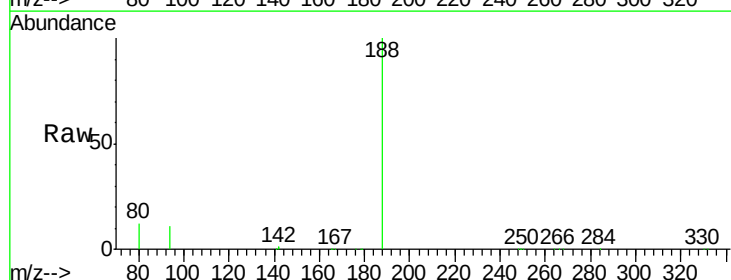
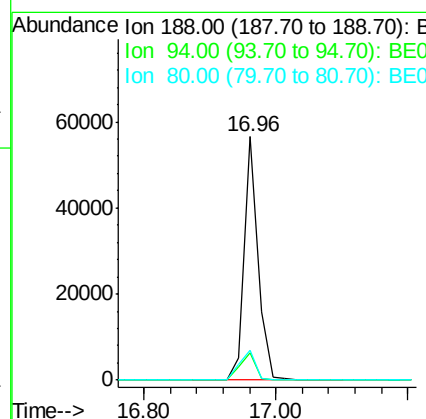
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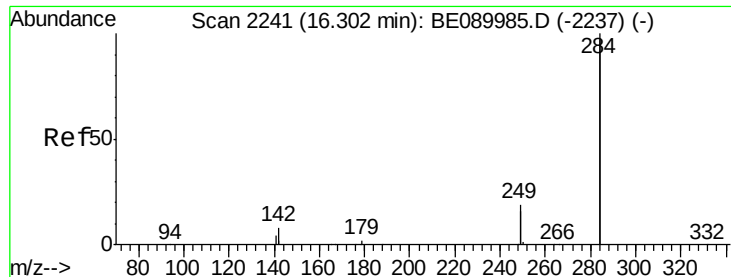
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#18
Phenanthrene-d10
Concen: 5.00 ng
RT: 16.96 min Scan# 2278
Delta R.T. -0.02 min
Lab File: BE090052.D
Acq: 2 Jul 2015 15:03

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	82398		
94	11.0	4.1	6.1#	
80	12.1	4.2	6.2#	





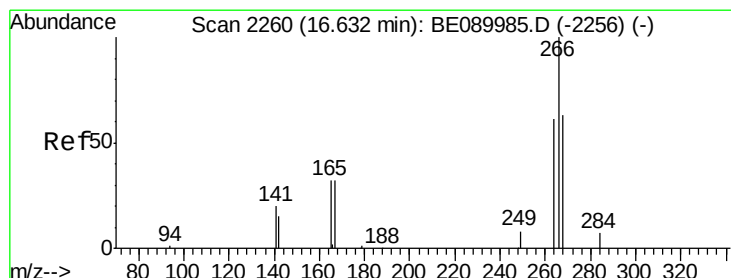
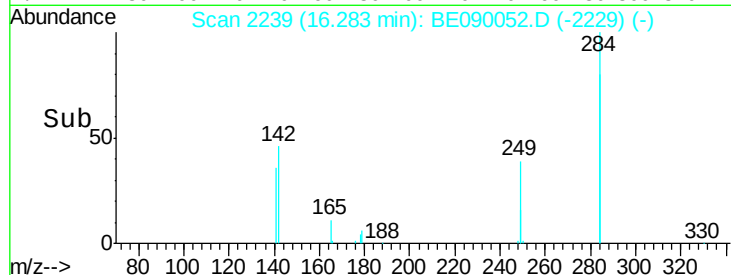
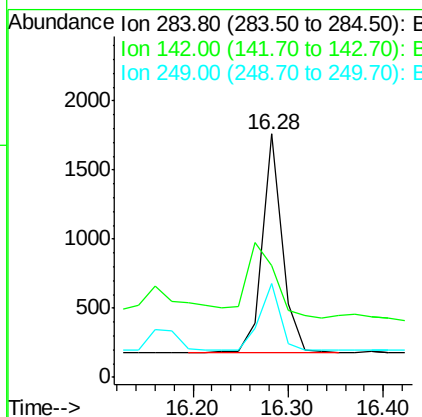
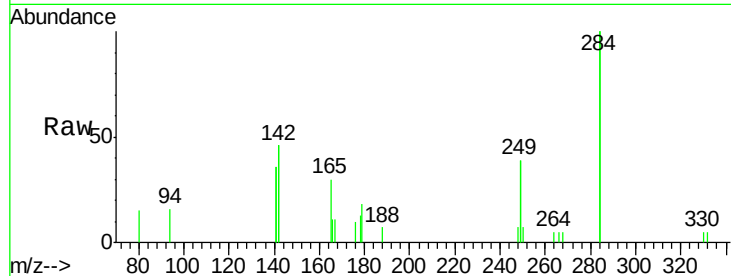
#20
Hexachlorobenzene
Concen: 0.16 ng
RT: 16.28 min Scan# 2239
Delta R.T. -0.02 min
Lab File: BE090052.D
Acq: 2 Jul 2015 15:03

Instrument :
BNA_E
ClientSampleId :
X1SS0650006-150626DL

Tgt Ion	Ratio	Lower	Upper
284	100		
142	50.2	32.6	49.0#
249	32.3	25.5	38.3

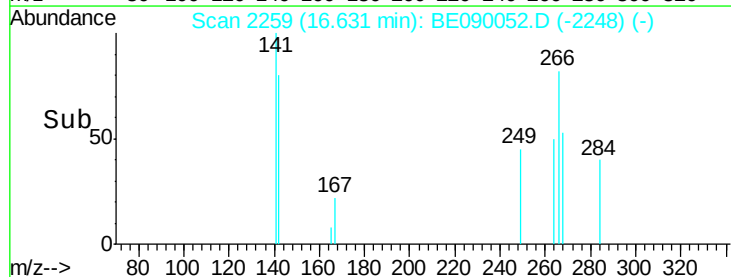
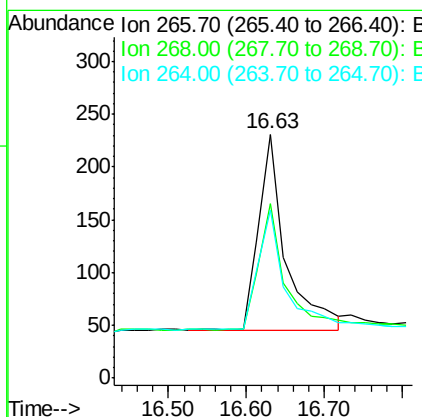
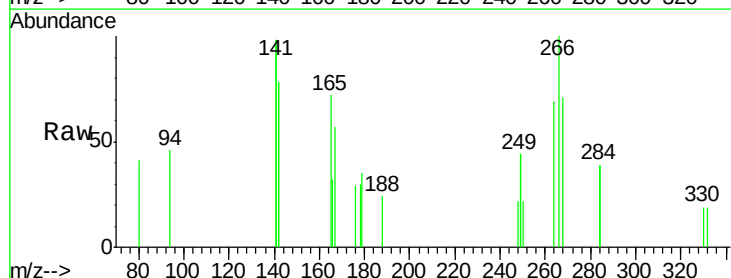
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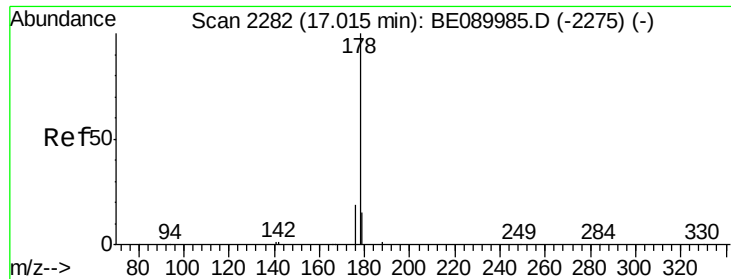
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#21
Pentachlorophenol
Concen: 0.50 ng
RT: 16.63 min Scan# 2259
Delta R.T. -0.00 min
Lab File: BE090052.D
Acq: 2 Jul 2015 15:03

Tgt Ion	Ratio	Lower	Upper
266	100		
268	71.4	51.8	77.8
264	68.8	50.2	75.2





#22

Phenanthrene

Concen: 1.77 ng

RT: 17.00 min Scan# 2280

Delta R.T. -0.02 min

Lab File: BE090052.D

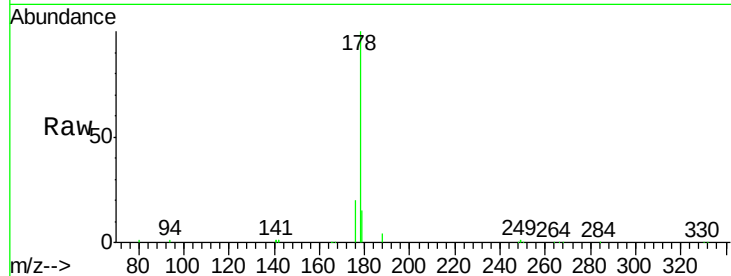
Acq: 2 Jul 2015 15:03

Instrument :

BNA_E

ClientSampleId :

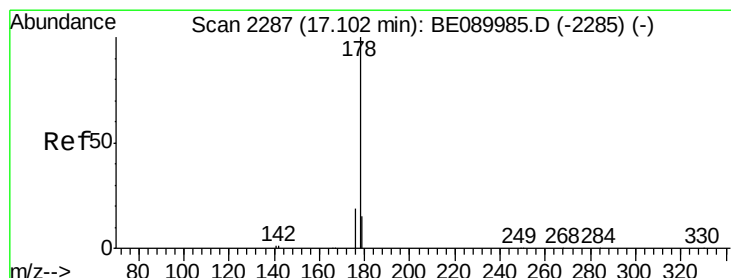
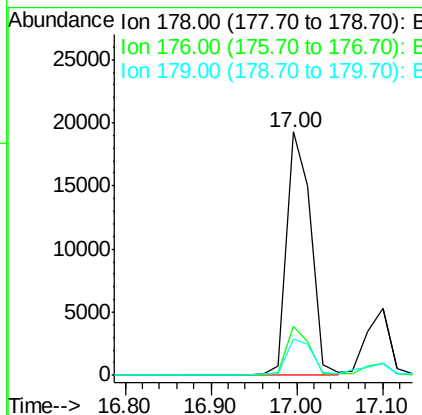
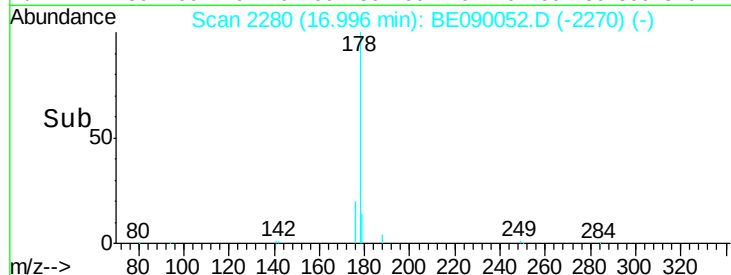
X1SS0650006-150626DL



Tgt Ion:	178	Resp:	37401
Ion Ratio	Lower	Upper	
178	100		
176	19.0	15.3	22.9
179	15.5	12.4	18.6

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#23

Anthracene

Concen: 0.53 ng m

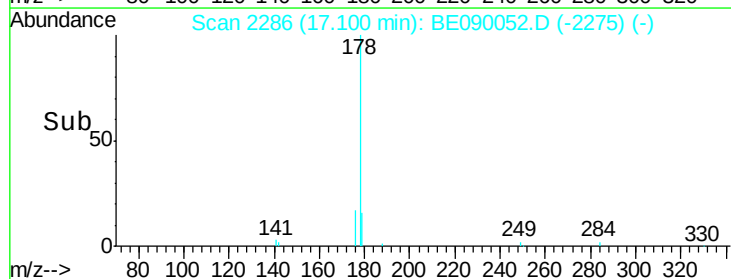
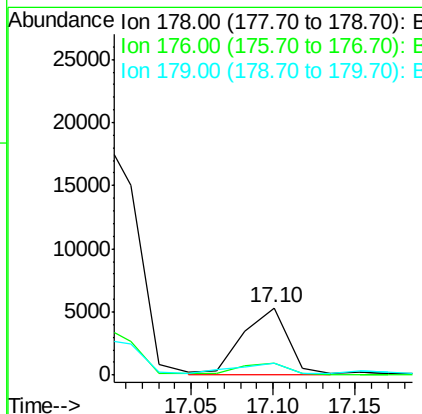
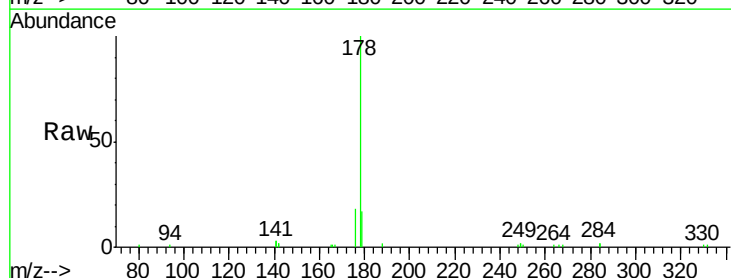
RT: 17.10 min Scan# 2286

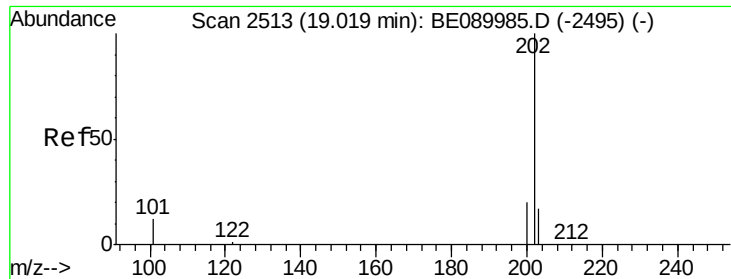
Delta R.T. -0.00 min

Lab File: BE090052.D

Acq: 2 Jul 2015 15:03

Tgt Ion:	178	Resp:	10271
Ion Ratio	Lower	Upper	
178	100		
176	69.1	14.7	22.1#
179	56.4	12.1	18.1#





#24

Fluoranthene

Concen: 3.53 ng

RT: 19.01 min Scan# 2510

Delta R.T. -0.01 min

Lab File: BE090052.D

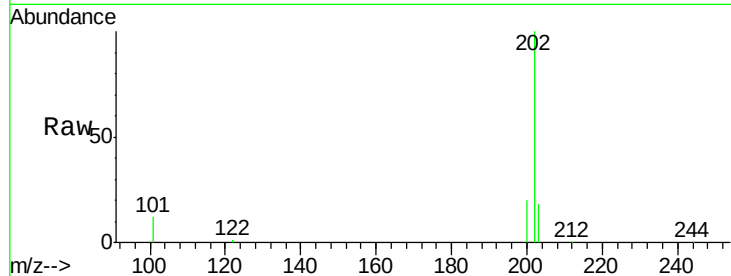
Acq: 2 Jul 2015 15:03

Instrument :

BNA_E

ClientSampleId :

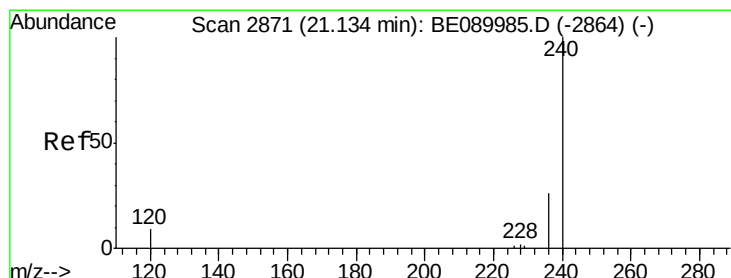
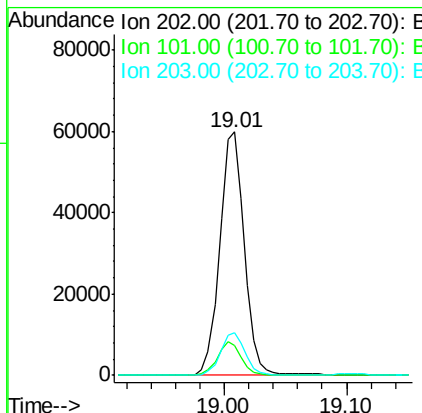
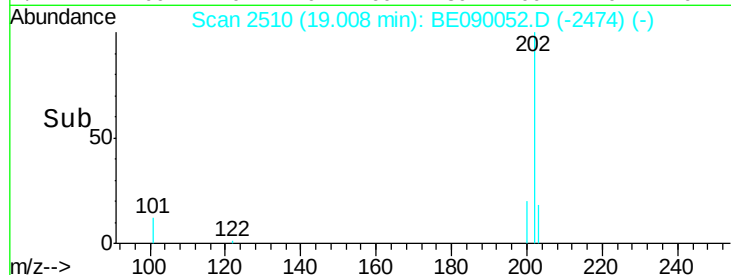
X1SS0650006-150626DL



Tgt Ion	Ratio	Resp	Lower	Upper
202	100	83320		
101	13.1	10.6	15.8	
203	17.2	13.8	20.6	

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#25

Chrysene-d12

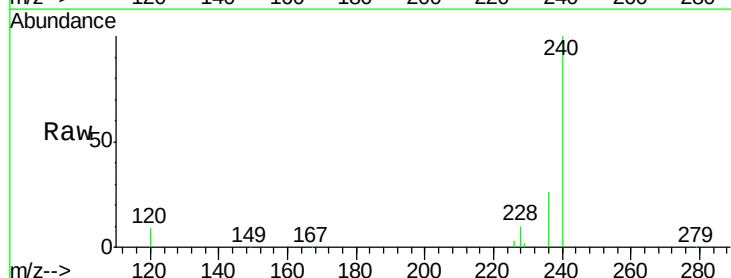
Concen: 5.00 ng

RT: 21.12 min Scan# 2868

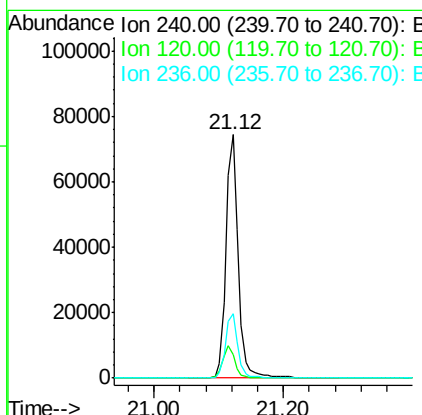
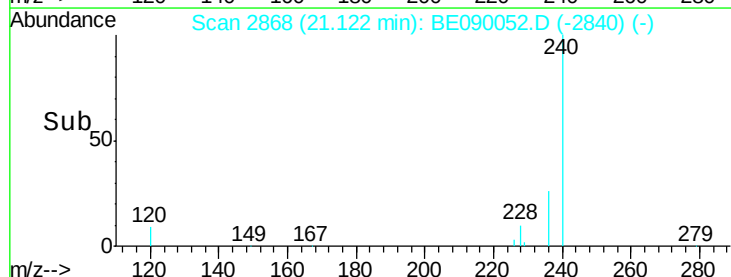
Delta R.T. -0.01 min

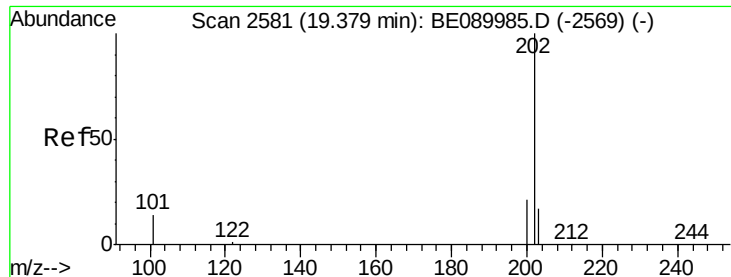
Lab File: BE090052.D

Acq: 2 Jul 2015 15:03



Tgt Ion	Ratio	Resp	Lower	Upper
240	100	98440		
120	9.4	6.9	10.3	
236	26.4	20.8	31.2	





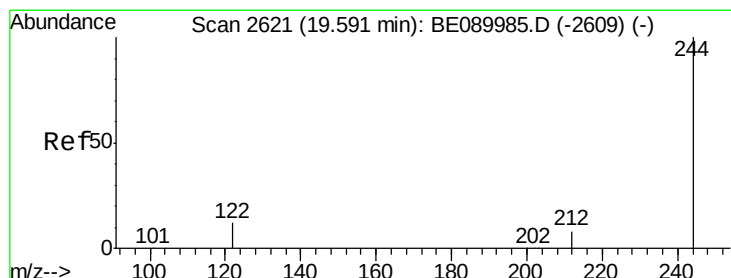
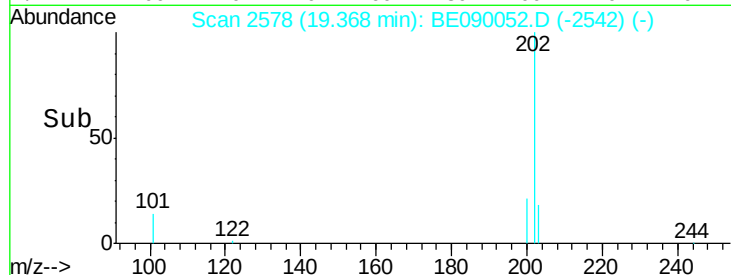
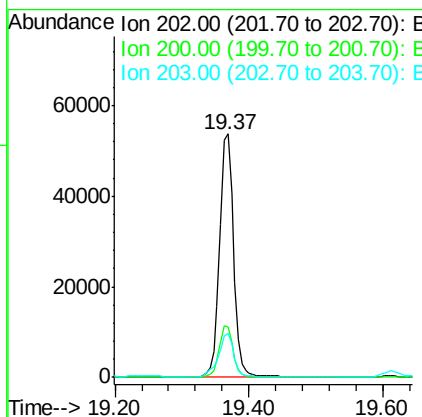
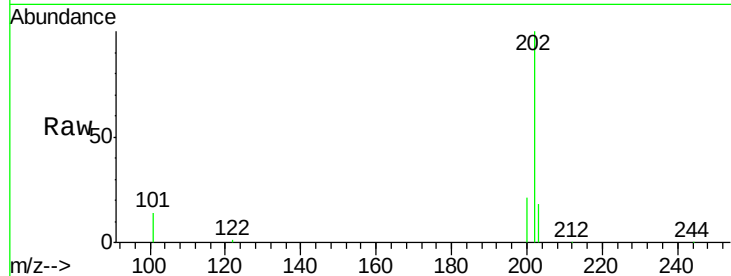
#26
 Pyrene
 Concen: 3.28 ng
 RT: 19.37 min Scan# 2578
 Delta R.T. -0.01 min
 Lab File: BE090052.D
 Acq: 2 Jul 2015 15:03

Instrument :
 BNA_E
 ClientSampleId :
 X1SS0650006-150626DL

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.8	25.2
203	19.7	13.9	20.9

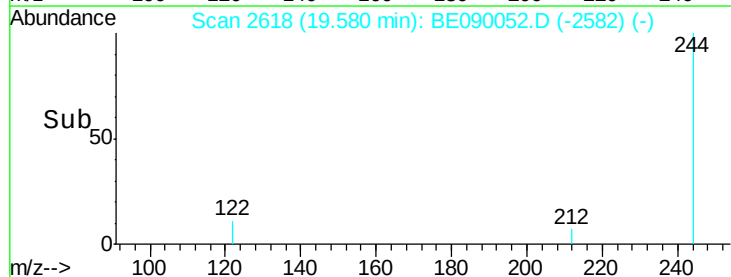
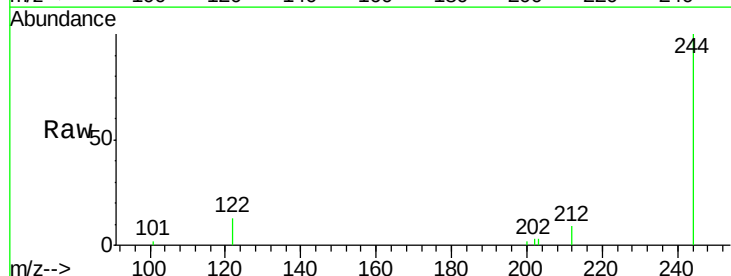
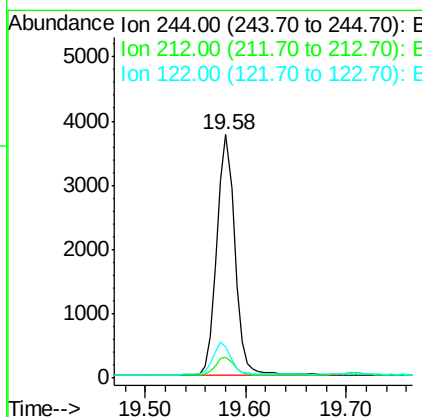
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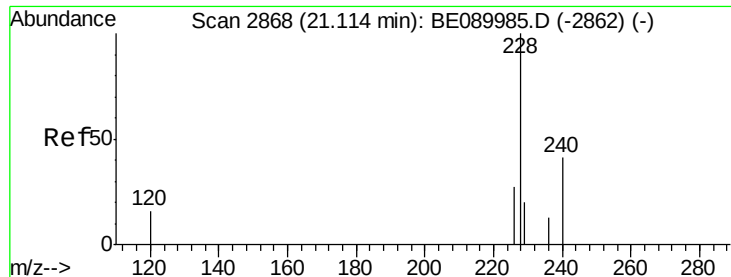
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#27
 Terphenyl-d14
 Concen: 0.28 ng
 RT: 19.58 min Scan# 2618
 Delta R.T. -0.01 min
 Lab File: BE090052.D
 Acq: 2 Jul 2015 15:03

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.7	6.6	9.8
122	12.7	9.8	14.8





#28

Benzo(a)anthracene

Concen: 2.16 ng

RT: 21.10 min Scan# 2865

Delta R.T. -0.01 min

Lab File: BE090052.D

Acq: 2 Jul 2015 15:03

Instrument :

BNA_E

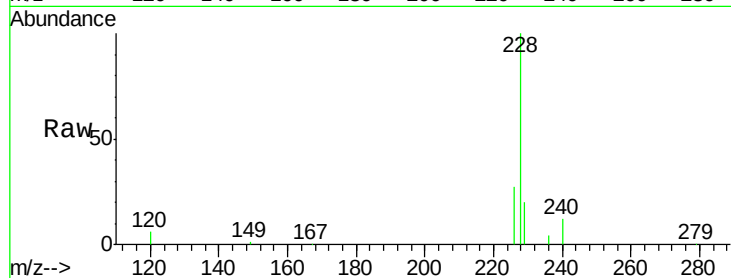
ClientSampleId :

X1SS0650006-150626DL

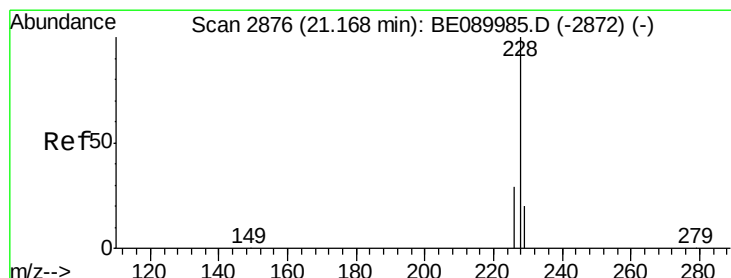
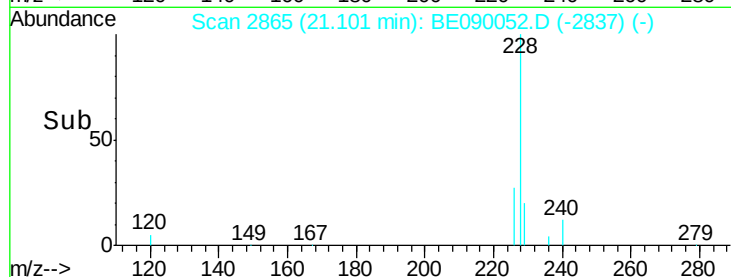
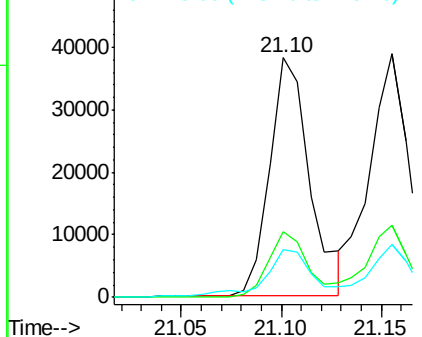
Tgt Ion:	228	Resp:	53173
Ion Ratio	Lower	Upper	
228	100		
226	27.4	21.8	32.6
229	20.0	15.8	23.6

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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#29

Chrysene

Concen: 2.14 ng

RT: 21.16 min Scan# 2873

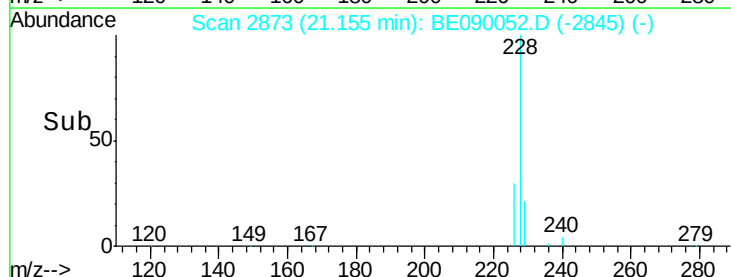
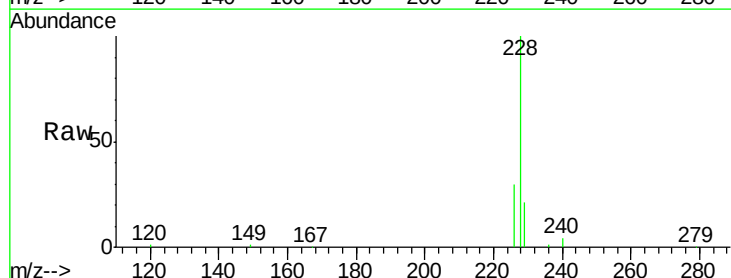
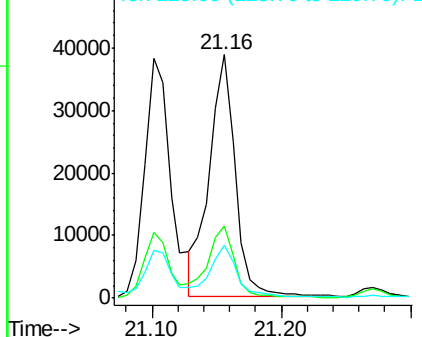
Delta R.T. -0.01 min

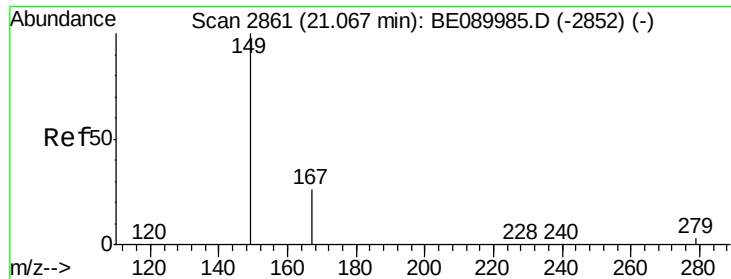
Lab File: BE090052.D

Acq: 2 Jul 2015 15:03

Tgt Ion:	228	Resp:	54682
Ion Ratio	Lower	Upper	
228	100		
226	29.6	23.4	35.0
229	21.5	16.2	24.2

Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





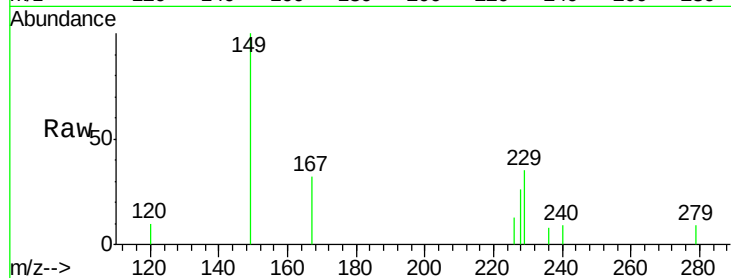
#30
 Bis(2-ethylhexyl)phthalate
 Concen: 0.37 ng
 RT: 21.05 min Scan# 2858
 Delta R.T. -0.01 min
 Lab File: BE090052.D
 Acq: 2 Jul 2015 15:03

Instrument :
 BNA_E
 ClientSampleId :
 X1SS0650006-150626DL

Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.5	20.3	30.5
279	4.0	2.6	3.8

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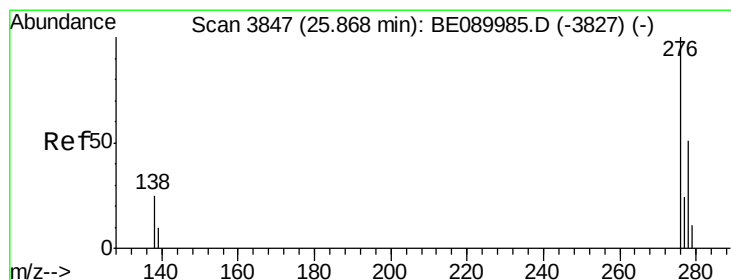
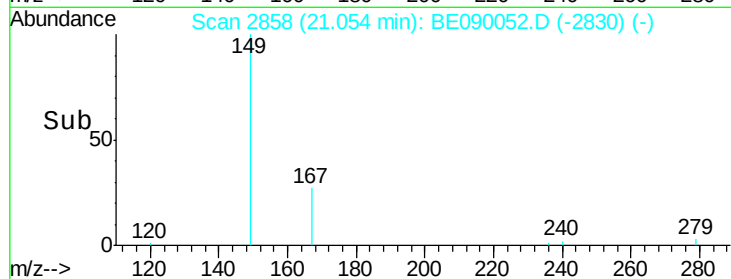
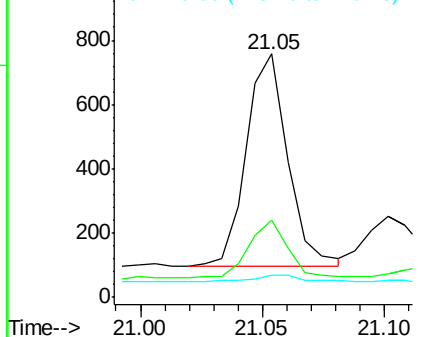


Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#31
 Indeno(1,2,3-cd)pyrene
 Concen: 1.06 ng
 RT: 25.83 min Scan# 3838
 Delta R.T. -0.04 min
 Lab File: BE090052.D
 Acq: 2 Jul 2015 15:03

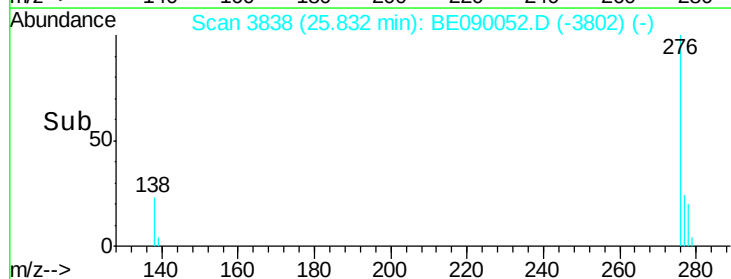
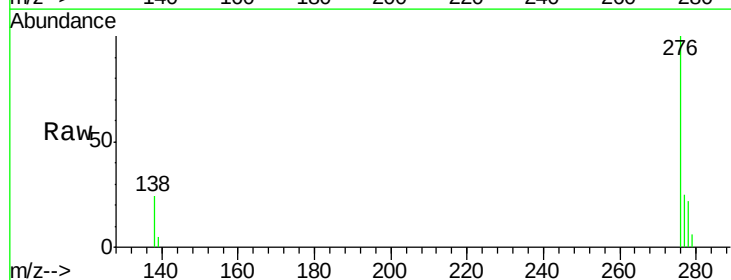
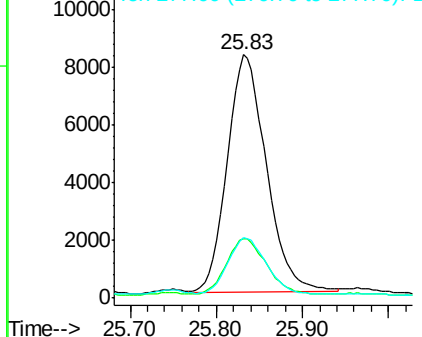
Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.9	21.3	31.9
277	23.9	19.7	29.5

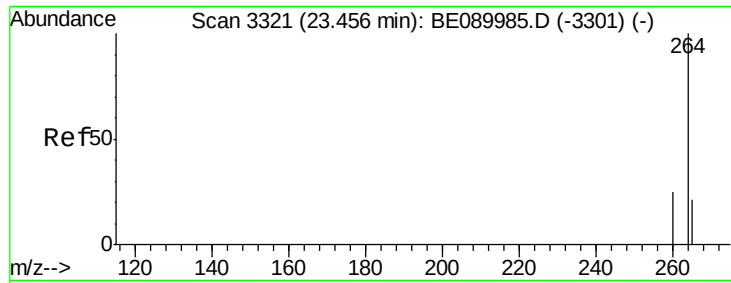
Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#32

Perylene-d12

Concen: 5.00 ng

RT: 23.44 min Scan# 3316

Delta R.T. -0.02 min

Lab File: BE090052.D

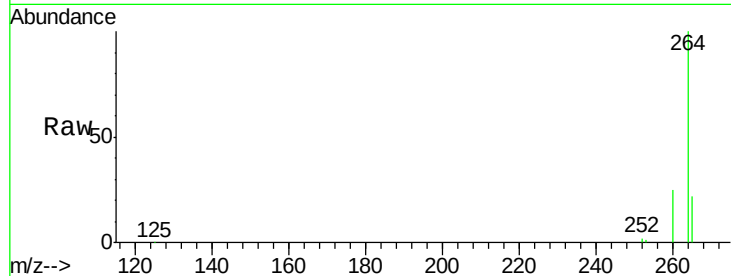
Acq: 2 Jul 2015 15:03

Instrument :

BNA_E

ClientSampleId :

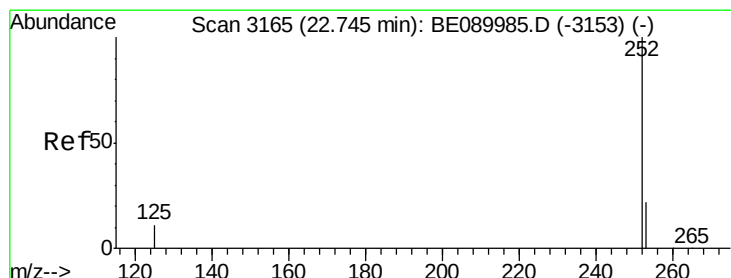
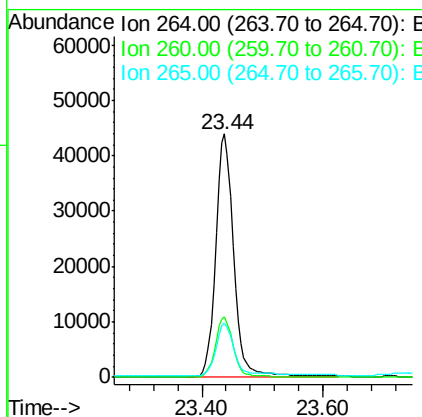
X1SS0650006-150626DL



Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.7	20.2	30.2
265	22.2	17.1	25.7

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#33

Benzo(b)fluoranthene

Concen: 2.99 ng

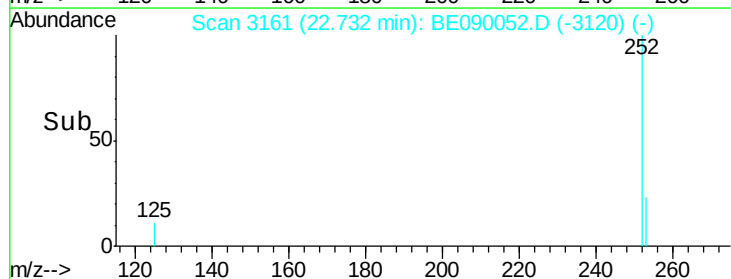
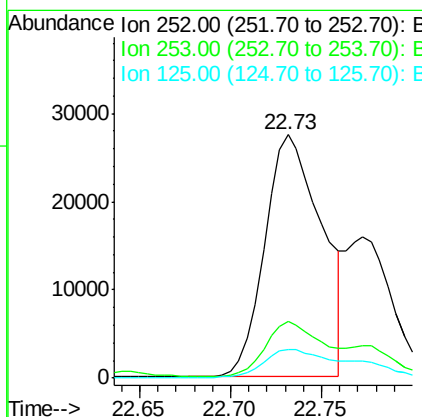
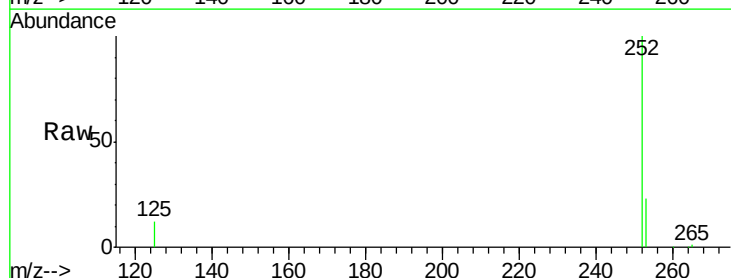
RT: 22.73 min Scan# 3161

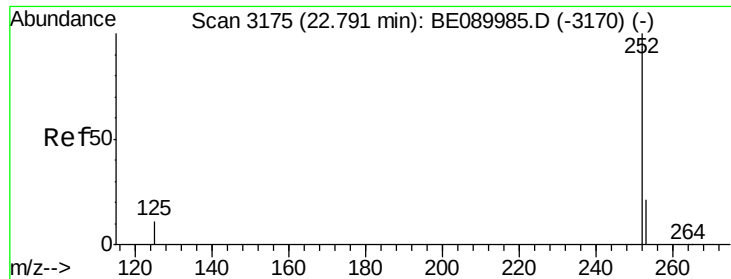
Delta R.T. -0.01 min

Lab File: BE090052.D

Acq: 2 Jul 2015 15:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.8	26.8
125	11.6	9.0	13.4





#34

Benzo(k)fluoranthene

Concen: 1.36 ng m

RT: 22.77 min Scan# 3170

Delta R.T. -0.02 min

Lab File: BE090052.D

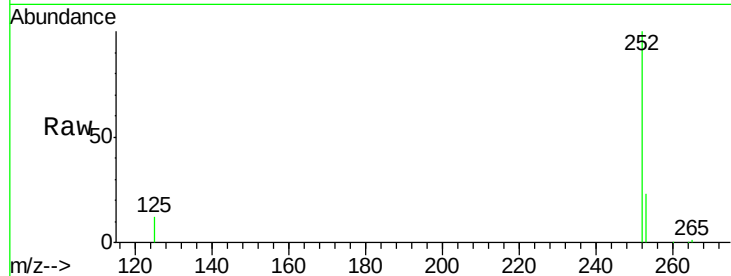
Acq: 2 Jul 2015 15:03

Instrument :

BNA_E

ClientSampleId :

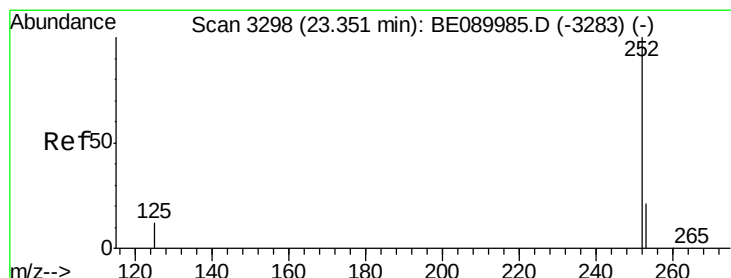
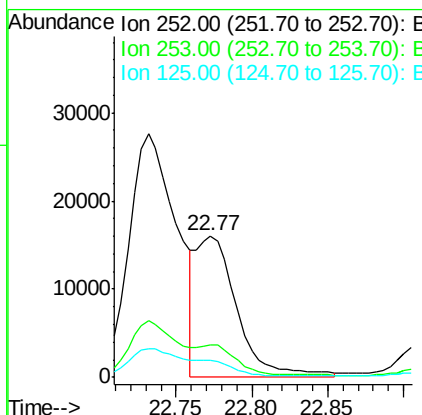
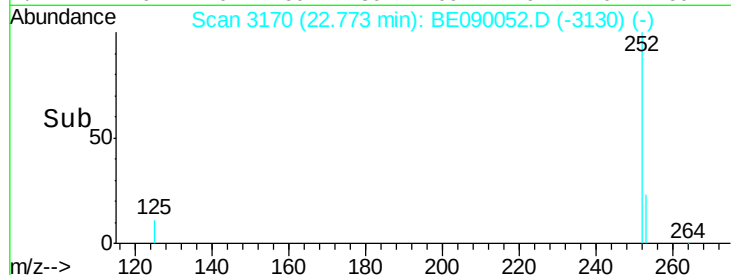
X1SS0650006-150626DL



Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.5	26.3
125	11.9	9.5	14.3

Manual Integrations
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#35

Benzo(a)pyrene

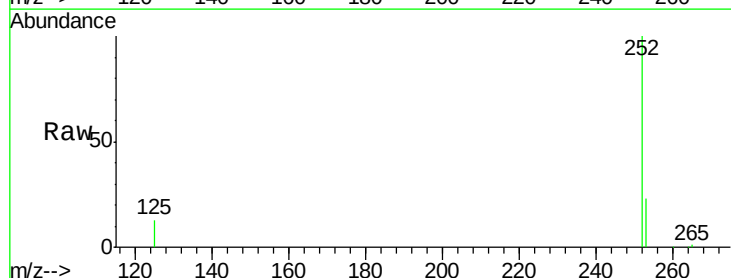
Concen: 2.32 ng

RT: 23.33 min Scan# 3293

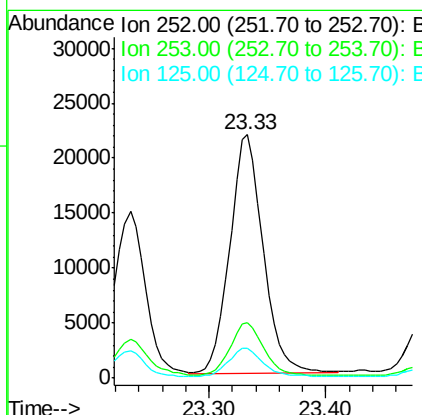
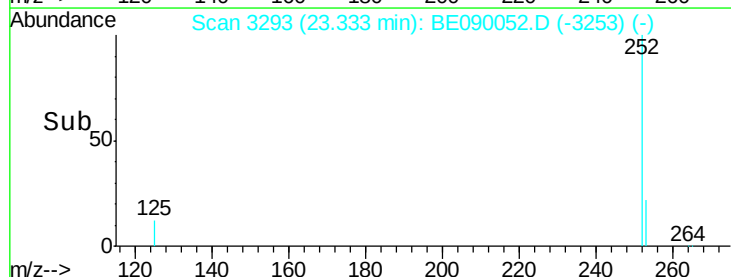
Delta R.T. -0.02 min

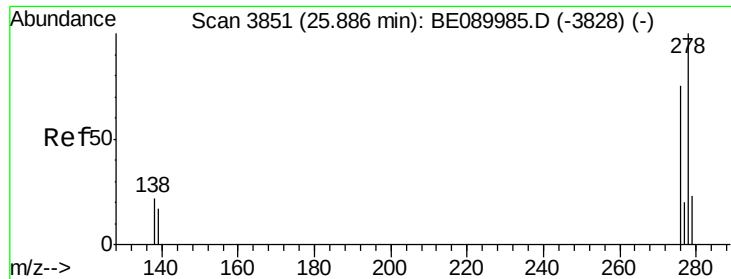
Lab File: BE090052.D

Acq: 2 Jul 2015 15:03



Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.4	26.2
125	12.5	10.5	15.7





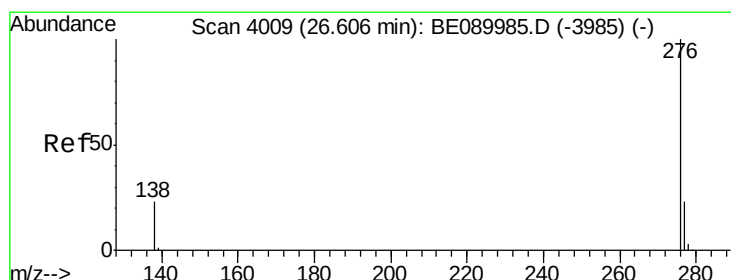
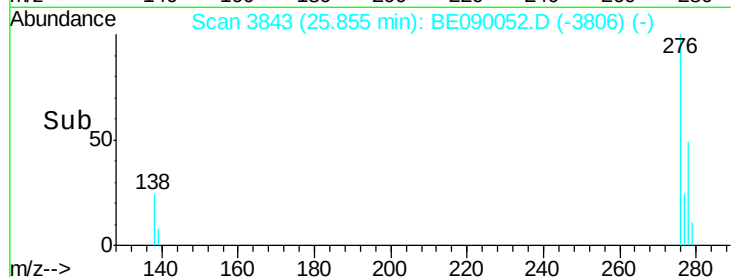
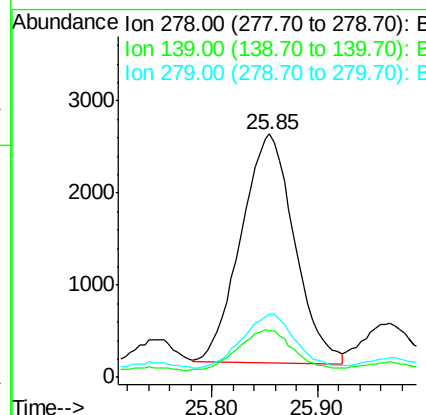
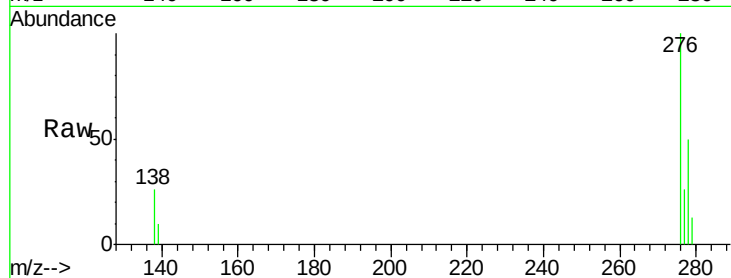
#36
Dibenzo(a,h)anthracene
Concen: 0.46 ng
RT: 25.85 min Scan# 3843
Delta R.T. -0.03 min
Lab File: BE090052.D
Acq: 2 Jul 2015 15:03

Instrument :
BNA_E
ClientSampleId :
X1SS0650006-150626DL

Tgt Ion	Ratio	Lower	Upper
278	100		
139	19.3	14.4	21.6
279	25.8	19.0	28.6

Manual Integrations
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#37
Benzo(g,h,i)perylene
Concen: 1.35 ng
RT: 26.57 min Scan# 4001
Delta R.T. -0.03 min
Lab File: BE090052.D
Acq: 2 Jul 2015 15:03

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.0	18.8	28.2
138	24.4	18.6	27.8

