

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE022415\
 Data File : BE089677.D
 Acq On : 24 Feb 2015 18:56
 Operator : TP/JJ
 Sample : MDL-03-S
 Misc : MDL-SOIL-0.2/0.4
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleID :
 MDL-03-S

Manual Integrations
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Quant Time: Feb 25 04:28:03 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE022415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 25 04:05:13 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	54805	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	227972	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	99946	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	179253	5.00	ng	0.00
19) Chrysene-d12	23.66	240	134141	5.00	ng	0.00
25) Perylene-d12	25.34	264	98563	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.60	82	112499	8.32	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	192312	8.65	ng	0.00
21) Terphenyl-d14	22.30	244	170906	10.86	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.73	88	874	0.13	ng	# 81
3) n-Nitrosodimethylamine	3.50	42	894	0.17	ng	# 89
6) Naphthalene	12.29	128	6606	0.15	ng	98
7) 2-Methylnaphthalene	13.95	142	3394	0.14	ng	99
10) Acenaphthylene	16.06	152	17645	0.12	ng	99
11) Acenaphthene	16.49	154	3269	0.14	ng	97
12) Fluorene	17.74	166	3522	0.14	ng	100
14) Hexachlorobenzene	18.99	284	696	0.15	ng	98
15) Pentachlorophenol	19.44	266	35	0.29	ng	# 74
16) Phenanthrene	19.81	178	5658	0.15	ng	97
17) Anthracene	19.91	178	4173	0.13	ng	99
18) Fluoranthene	21.72	202	3892	0.12	ng	98
20) Pyrene	22.04	202	4242	0.13	ng	99
22) Benzo(a)anthracene	23.65	228	12269	0.14	ng	95
23) Chrysene	23.68	228	19285	0.16	ng	96
24) Indeno(1,2,3-cd)pyrene	26.73	276	2469	0.29	ng	# 52
26) Benzo(b)fluoranthene	24.91	252	625	0.36	ng	# 89
27) Benzo(k)fluoranthene	24.94	252	1893m	0.22	ng	
28) Benzo(a)pyrene	25.27	252	716	0.13	ng	# 86
29) Dibenzo(a,h)anthracene	26.77	278	431	0.34	ng	# 81
30) Benzo(g,h,i)perylene	27.15	276	3912	0.38	ng	# 86

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

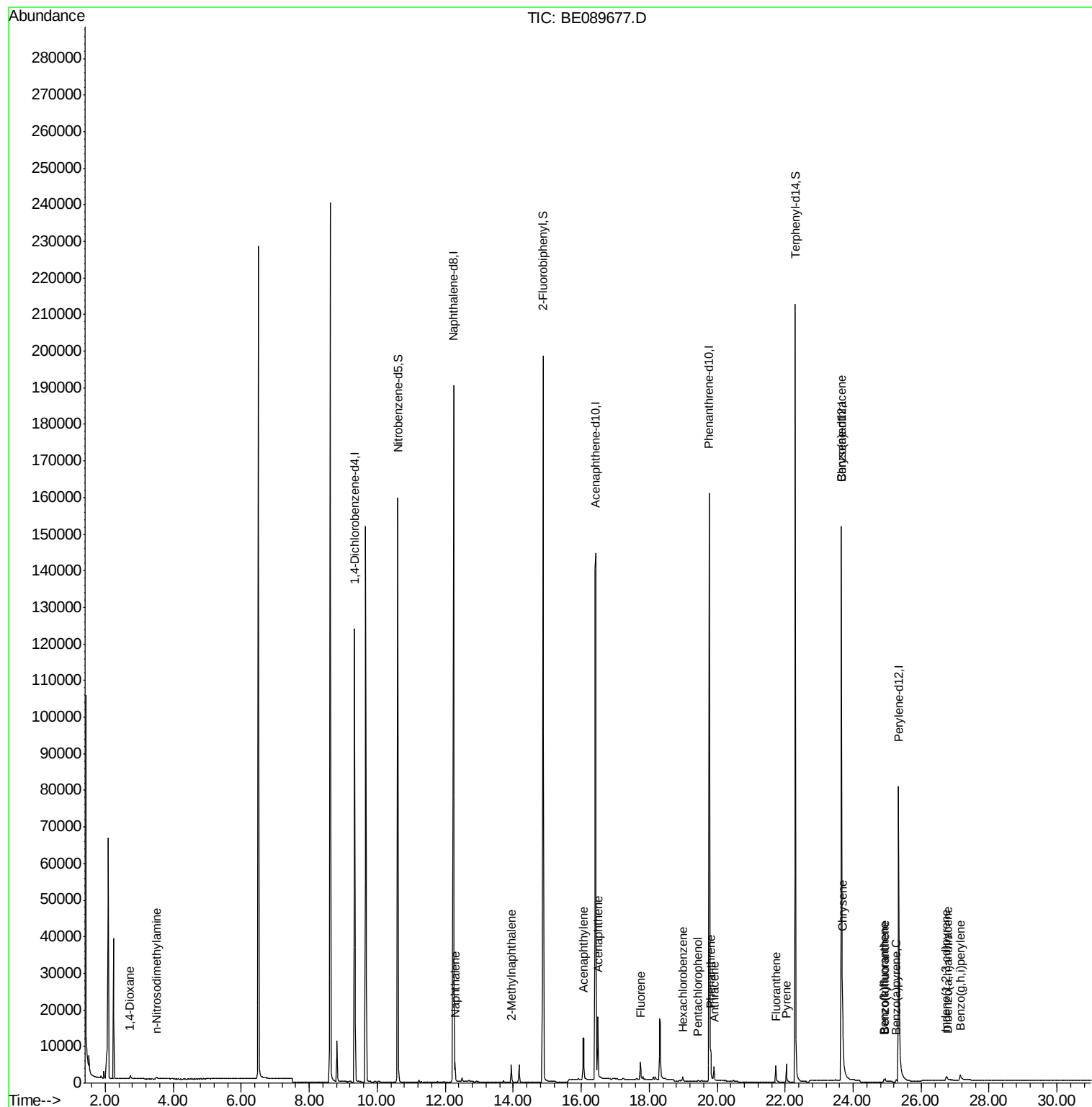
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE022415\
Data File : BE089677.D
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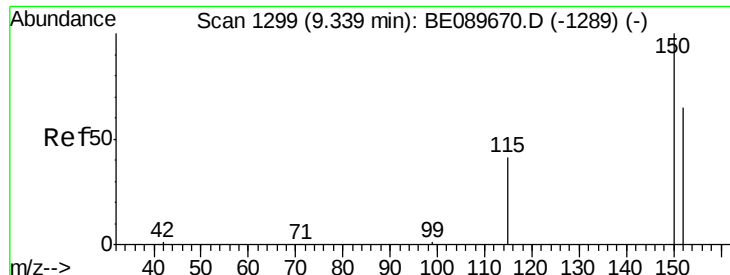
Instrument :
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MDL-03-S

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1299

Delta R.T. -0.00 min

Lab File: BE089677.D

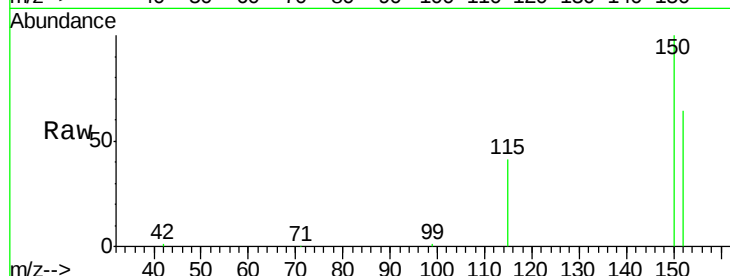
Acq: 24 Feb 2015 18:56

Instrument :

BNA_E

ClientSampleId :

MDL-03-S



Tgt Ion: 152 Resp: 54805

Ion Ratio Lower Upper

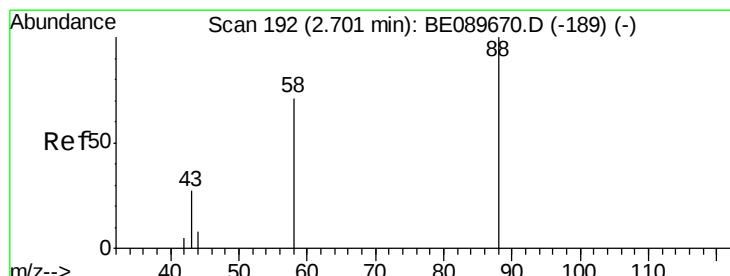
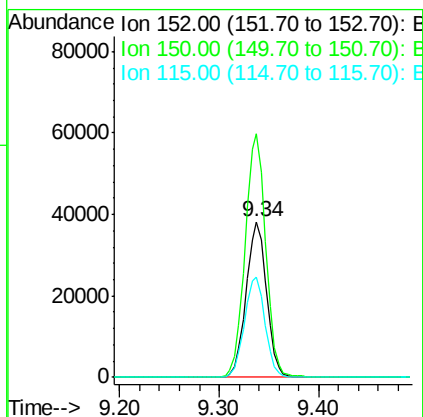
152 100

150 156.3 123.4 185.0

115 64.6 50.8 76.2

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#2

1,4-Dioxane

Concen: 0.13 ng

RT: 2.73 min Scan# 197

Delta R.T. 0.03 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

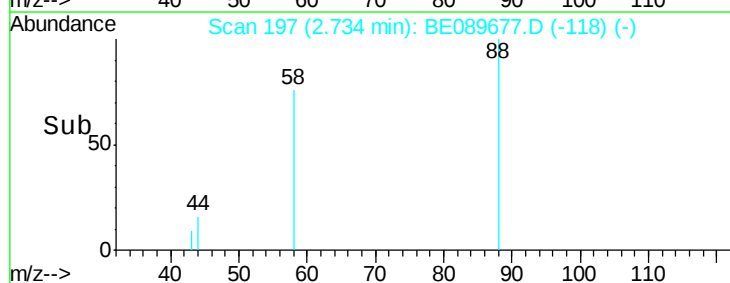
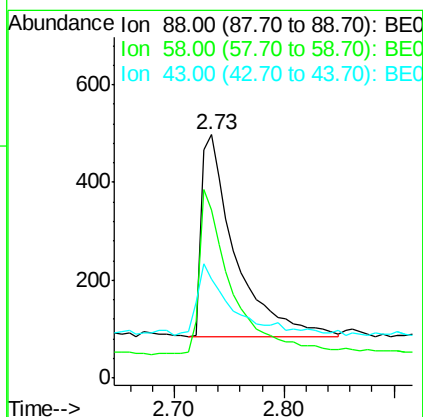
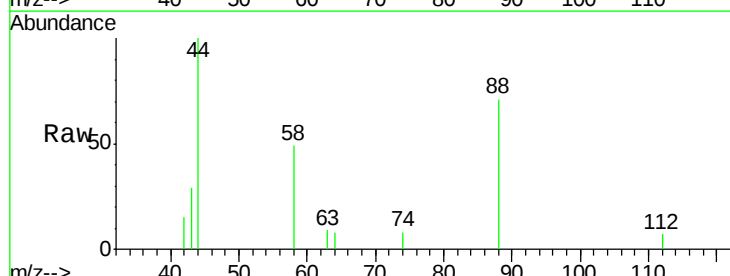
Tgt Ion: 88 Resp: 874

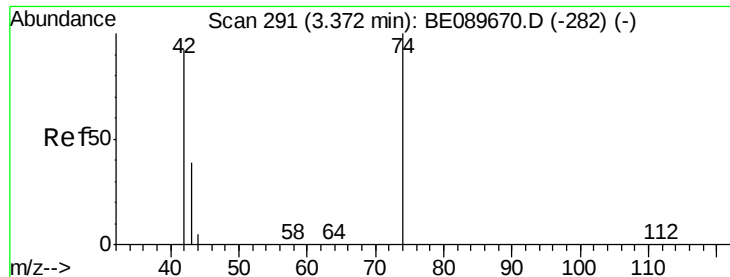
Ion Ratio Lower Upper

88 100

58 79.7 62.4 93.6

43 0.0 26.6 40.0#





#3

n-Nitrosodimethylamine

Concen: 0.17 ng

RT: 3.50 min Scan# 310

Delta R.T. 0.13 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

Instrument :

BNA_E

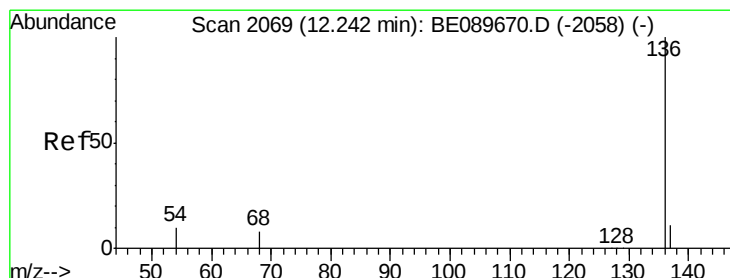
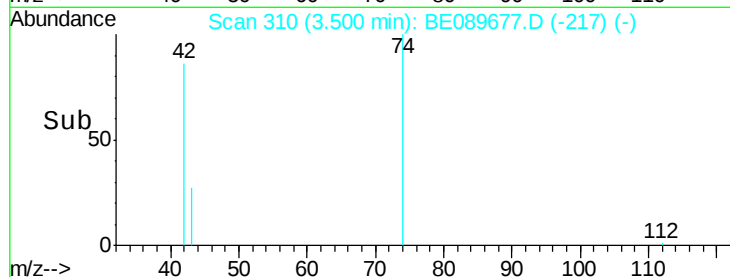
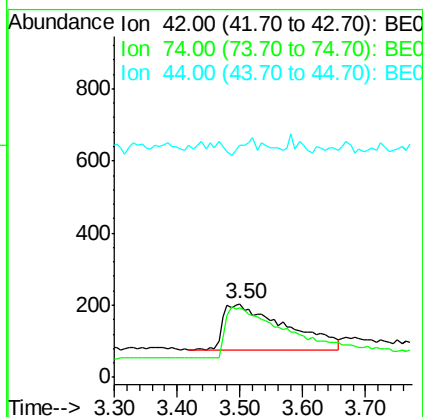
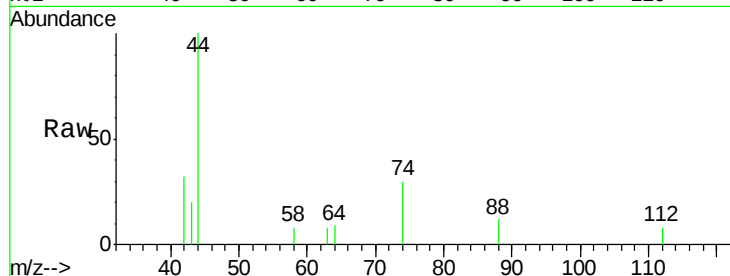
ClientSampleId :

MDL-03-S

Tgt Ion:	42	Resp:	894
Ion	Ratio	Lower	Upper
42	100		
74	125.5	91.1	136.7
44	0.0	4.7	7.1#

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#4

Naphthalene-d8

Concen: 5.00 ng

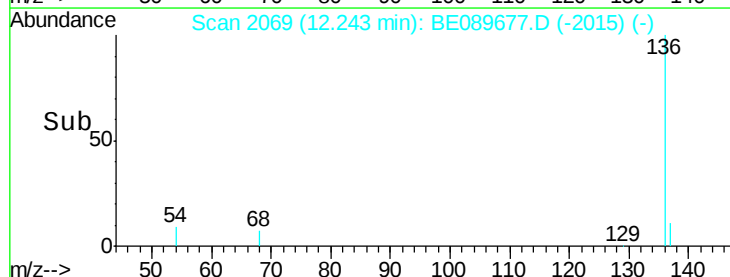
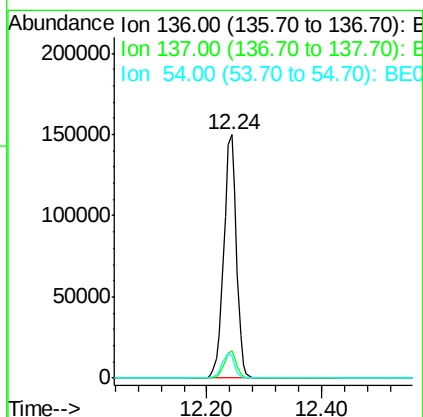
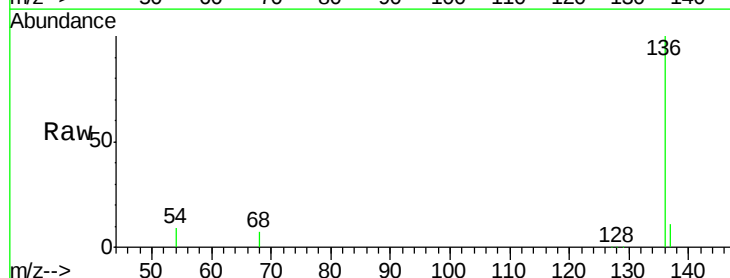
RT: 12.24 min Scan# 2069

Delta R.T. 0.00 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

Tgt Ion:	136	Resp:	227972
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.7	13.1
54	8.9	7.8	11.8





#5

Nitrobenzene-d5

Concen: 8.32 ng

RT: 10.60 min Scan# 1667

Delta R.T. -0.00 min

Lab File: BE089677.D

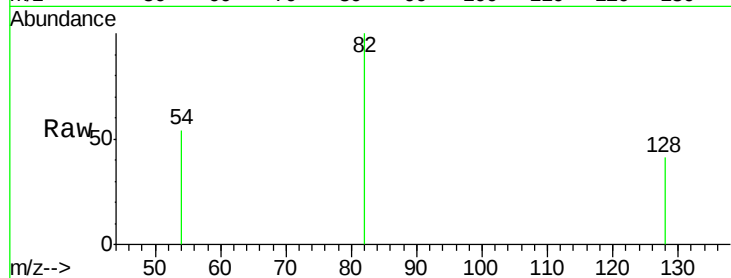
Acq: 24 Feb 2015 18:56

Instrument :

BNA_E

ClientSampleId :

MDL-03-S



Tgt Ion: 82 Resp: 112499

Ion Ratio Lower Upper

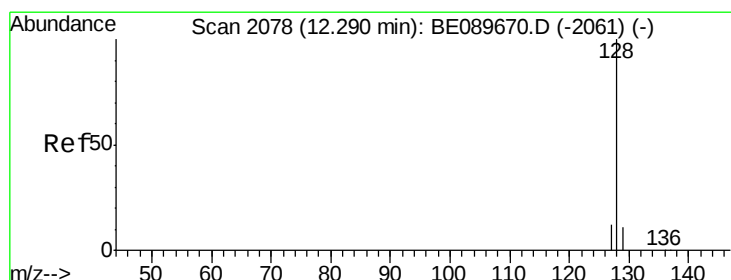
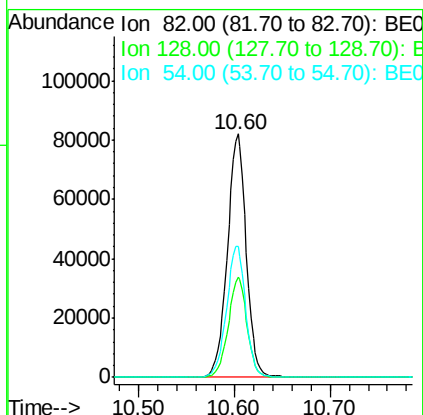
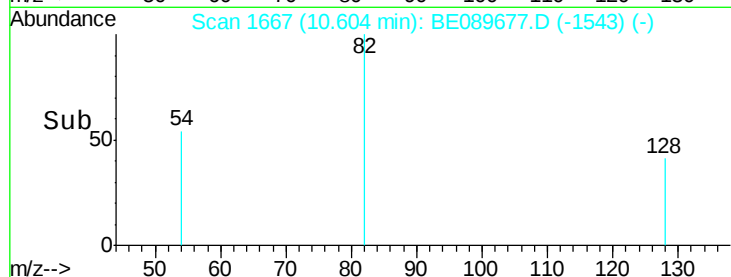
82 100

128 41.0 30.6 46.0

54 54.0 43.6 65.4

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#6

Naphthalene

Concen: 0.15 ng

RT: 12.29 min Scan# 2078

Delta R.T. 0.00 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

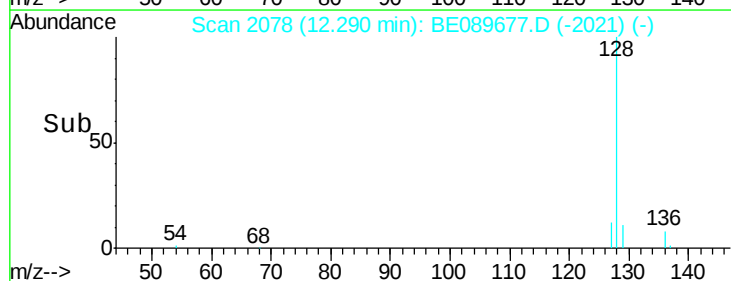
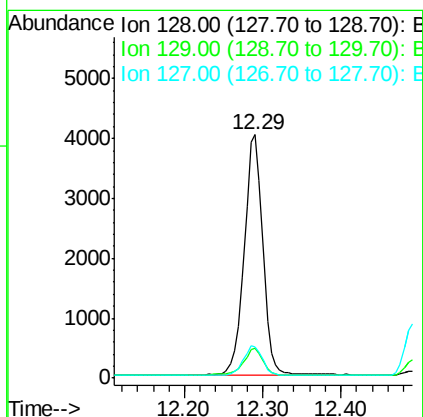
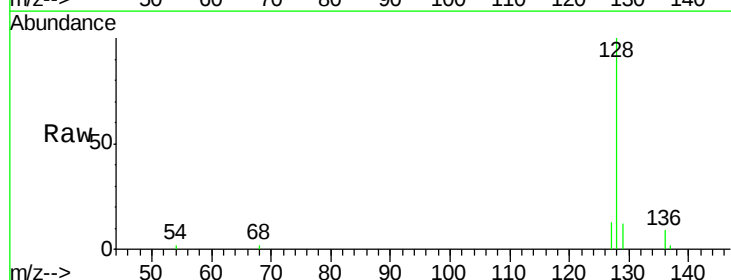
Tgt Ion: 128 Resp: 6606

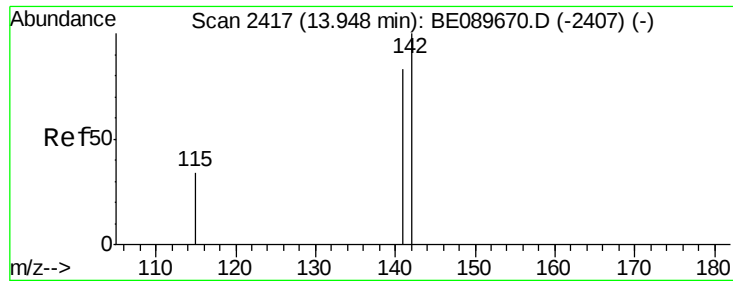
Ion Ratio Lower Upper

128 100

129 12.1 8.9 13.3

127 13.0 9.7 14.5





#7

2-Methylnaphthalene

Concen: 0.14 ng

RT: 13.95 min Scan# 2417

Delta R.T. 0.00 min

Lab File: BE089677.D

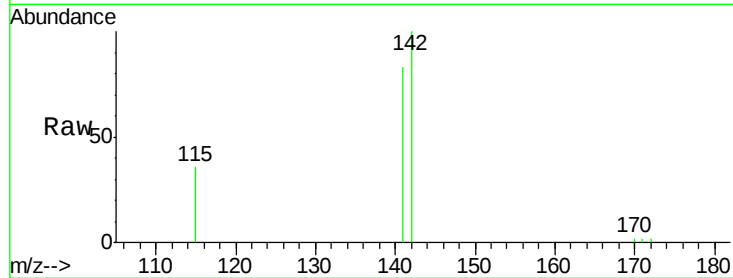
Acq: 24 Feb 2015 18:56

Instrument :

BNA_E

ClientSampleId :

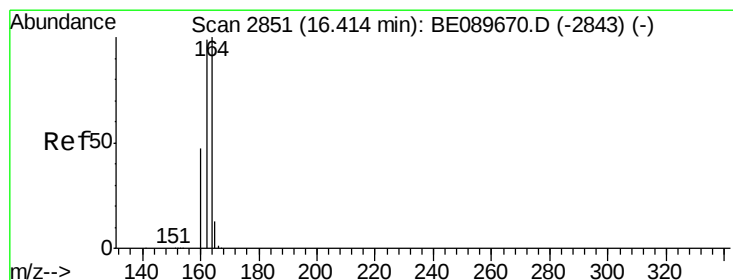
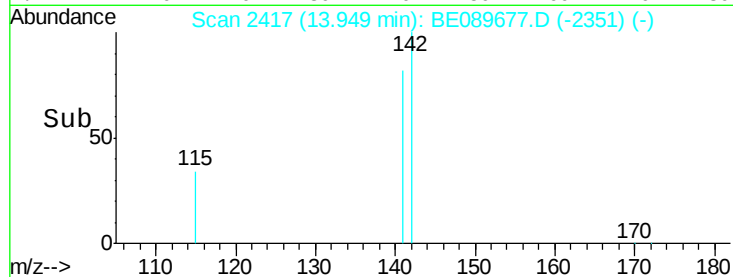
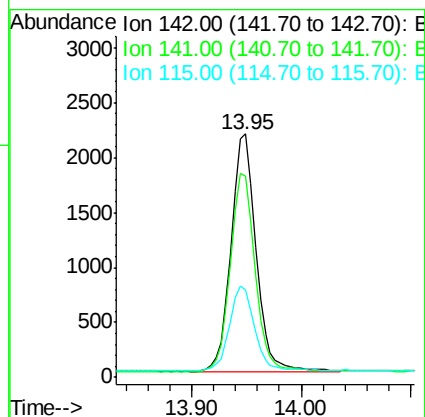
MDL-03-S



Tgt Ion:	142	Resp:	3394
Ion Ratio	Lower	Upper	
142	100		
141	82.5	66.0	99.0
115	35.9	27.4	41.0

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#8

Acenaphthene-d10

Concen: 5.00 ng

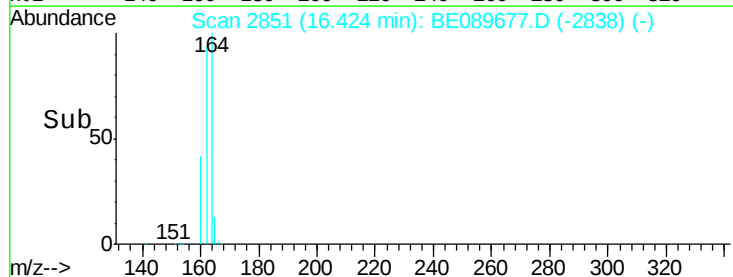
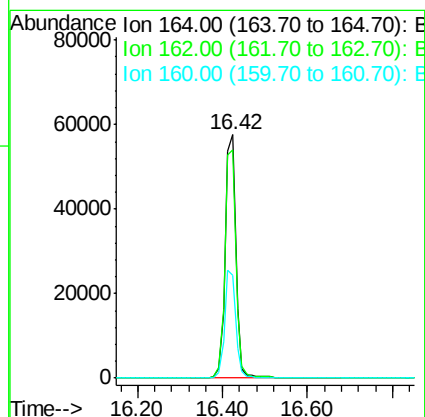
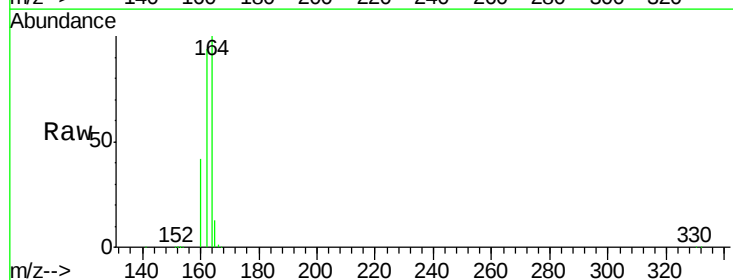
RT: 16.42 min Scan# 2851

Delta R.T. 0.01 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

Tgt Ion:	164	Resp:	99946
Ion Ratio	Lower	Upper	
164	100		
162	93.6	79.4	119.2
160	42.2	37.6	56.4





#9

2-Fluorobiphenyl

Concen: 8.65 ng

RT: 14.88 min Scan# 2621

Delta R.T. 0.00 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

Instrument :

BNA_E

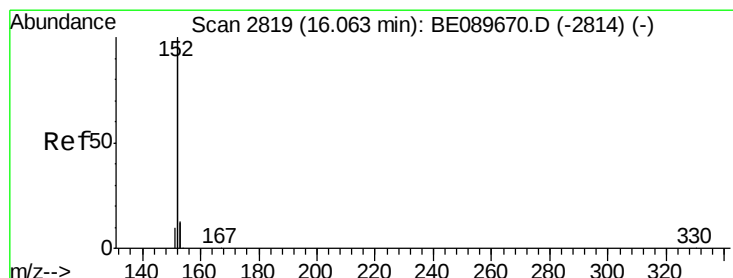
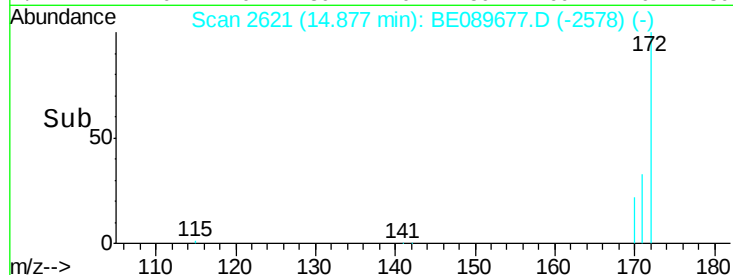
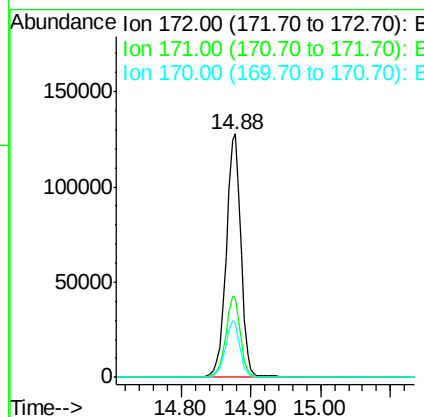
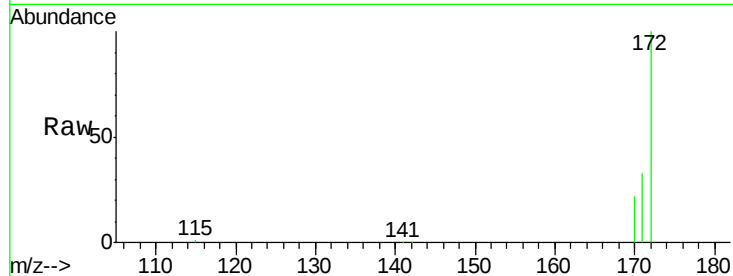
ClientSampleId :

MDL-03-S

Tgt Ion:	172	Resp:	192312
Ion Ratio	Lower	Upper	
172	100		
171	32.8	27.3	40.9
170	22.0	18.5	27.7

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#10

Acenaphthylene

Concen: 0.12 ng

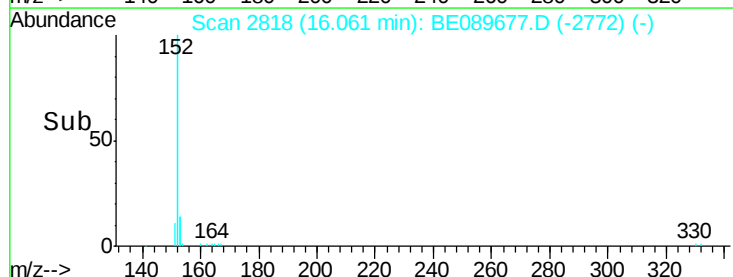
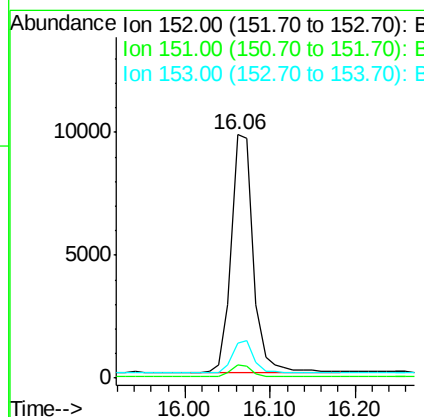
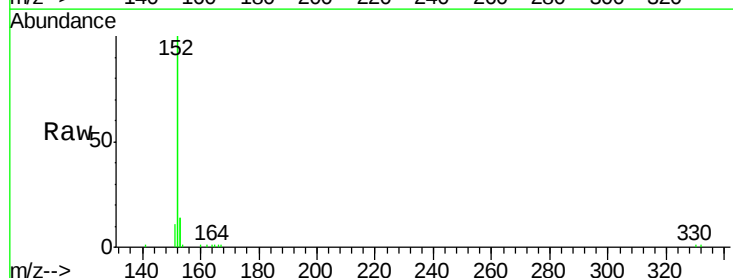
RT: 16.06 min Scan# 2818

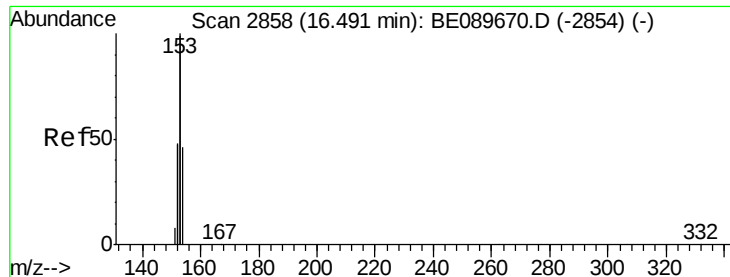
Delta R.T. -0.00 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

Tgt Ion:	152	Resp:	17645
Ion Ratio	Lower	Upper	
152	100		
151	4.9	3.8	5.6
153	13.6	10.4	15.6





#11

Acenaphthene

Concen: 0.14 ng

RT: 16.49 min Scan# 2857

Delta R.T. -0.00 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

Instrument :

BNA_E

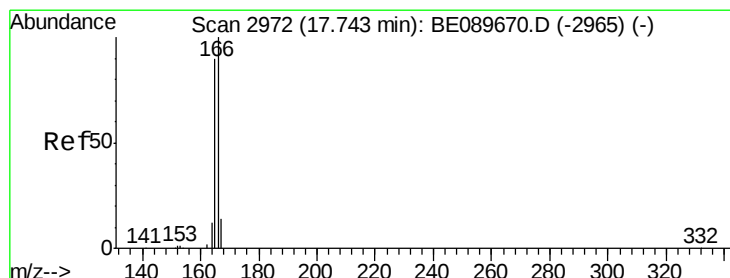
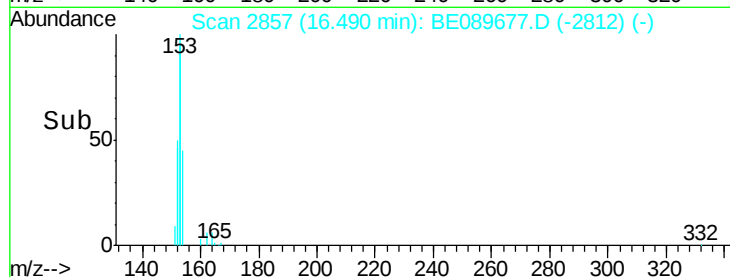
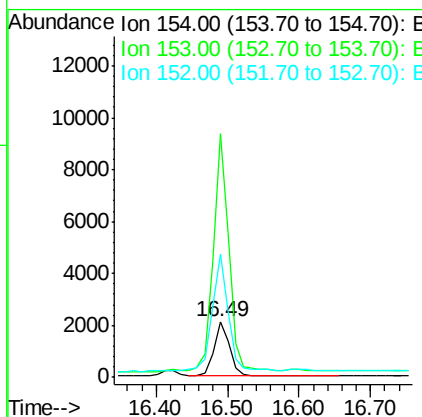
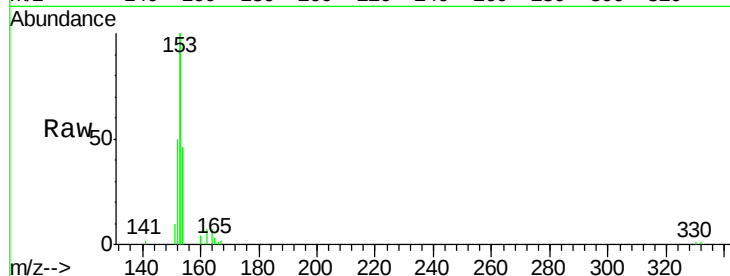
ClientSampleId :

MDL-03-S

Tgt Ion:	154	Resp:	3269
Ion Ratio	Lower	Upper	
154	100		
153	435.9	345.8	518.8
152	221.3	168.6	252.8

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#12

Fluorene

Concen: 0.14 ng

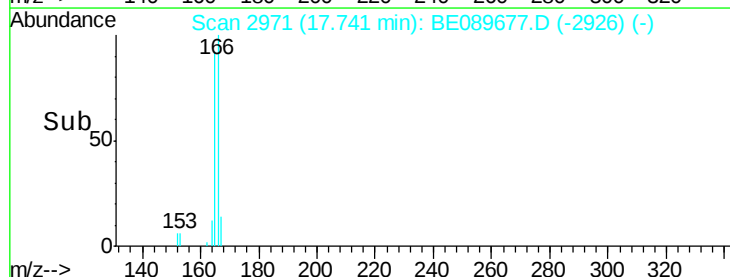
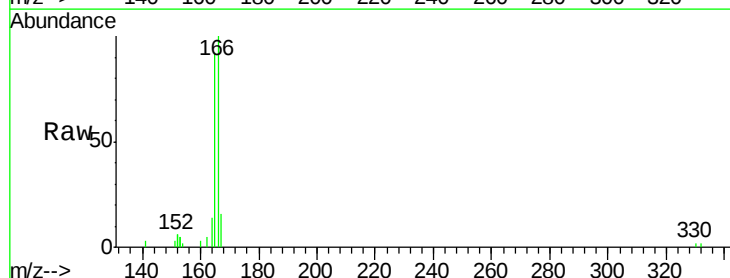
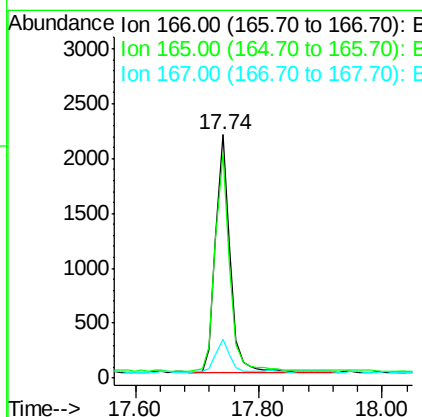
RT: 17.74 min Scan# 2971

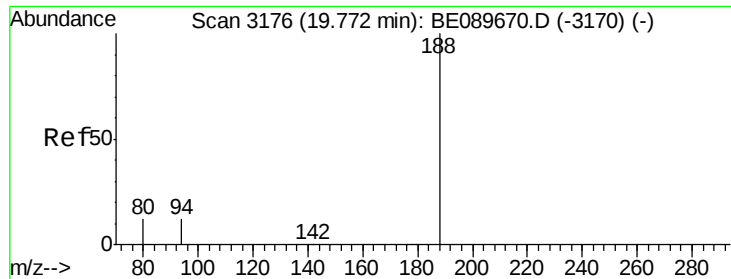
Delta R.T. -0.00 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

Tgt Ion:	166	Resp:	3522
Ion Ratio	Lower	Upper	
166	100		
165	91.5	73.6	110.4
167	13.3	10.6	16.0





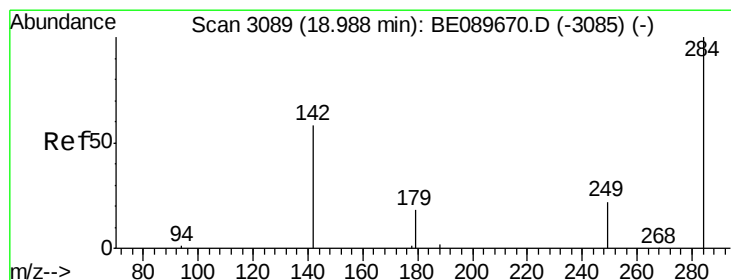
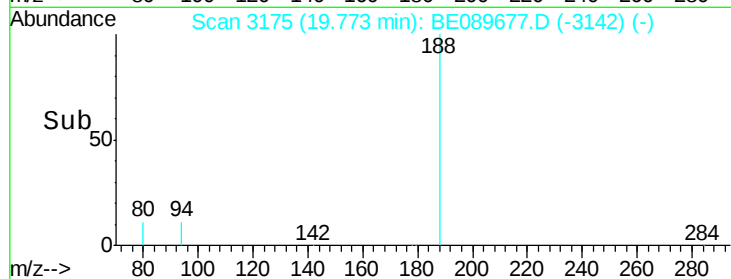
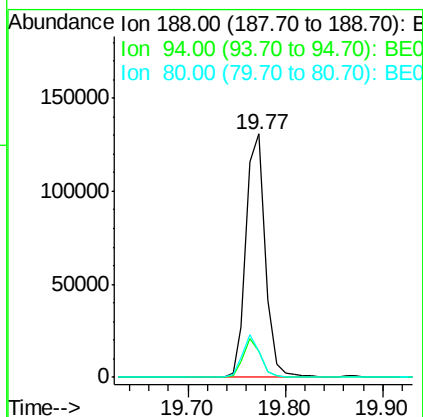
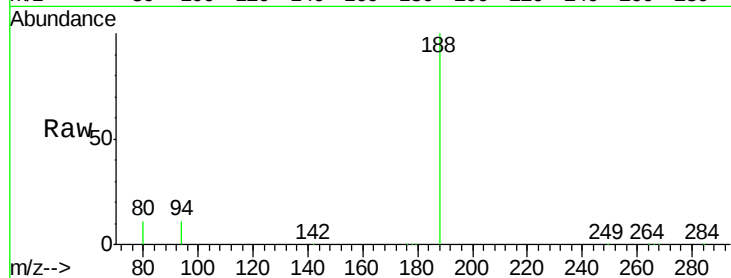
#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3175
Delta R.T. 0.00 min
Lab File: BE089677.D
Acq: 24 Feb 2015 18:56

Instrument :
BNA_E
ClientSampleId :
MDL-03-S

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	10.8	9.4	14.2
80	10.8	9.5	14.3

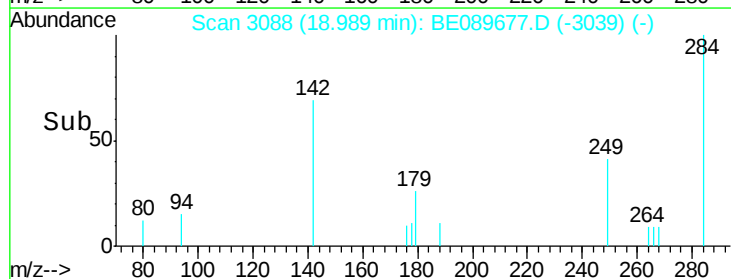
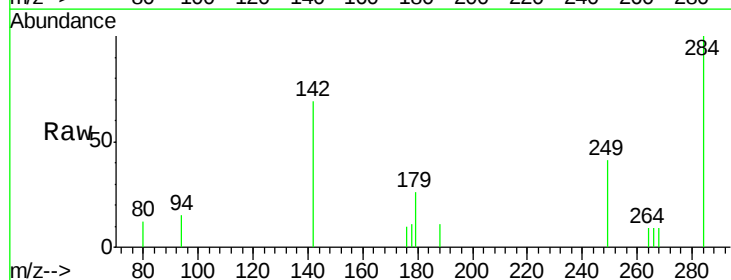
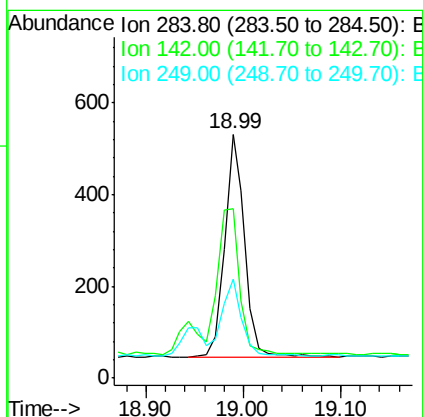
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#14
Hexachlorobenzene
Concen: 0.15 ng
RT: 18.99 min Scan# 3088
Delta R.T. 0.00 min
Lab File: BE089677.D
Acq: 24 Feb 2015 18:56

Tgt Ion	Ratio	Resp Lower	Resp Upper
284	100		
142	71.0	55.4	83.2
249	33.2	27.2	40.8





#15

Pentachlorophenol

Concen: 0.29 ng

RT: 19.44 min Scan# 3138

Delta R.T. 0.00 min

Lab File: BE089677.D

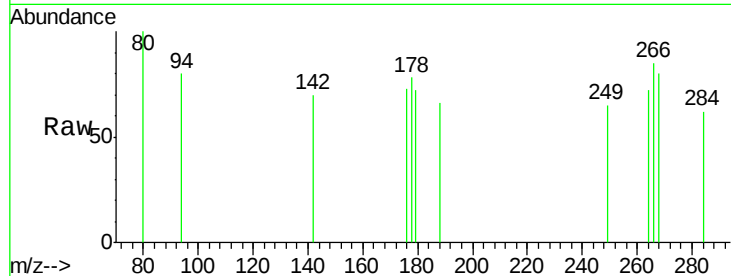
Acq: 24 Feb 2015 18:56

Instrument :

BNA_E

ClientSampleId :

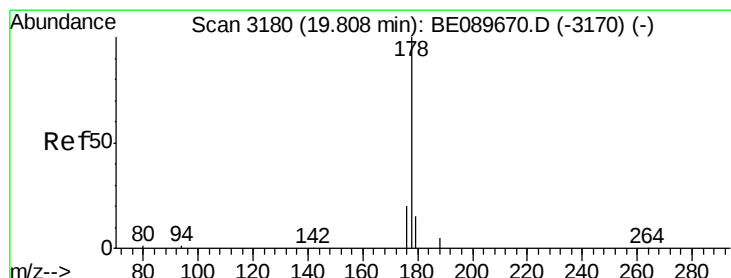
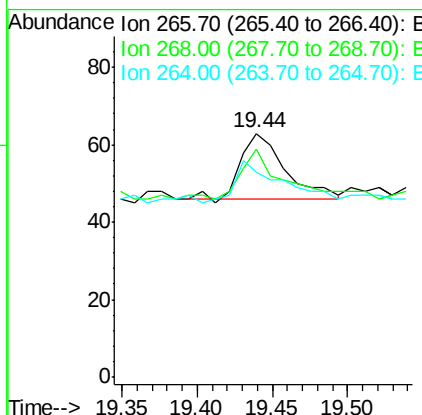
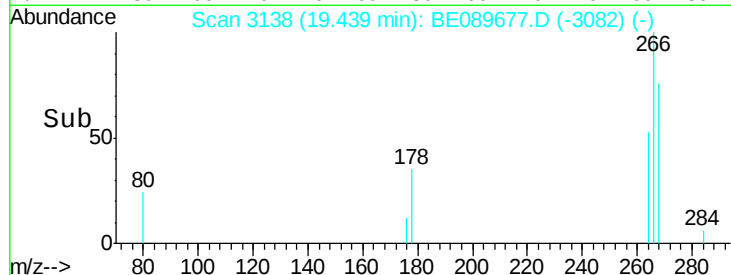
MDL-03-S



Tgt Ion	Ratio	Lower	Upper
266	100		
268	93.7	56.3	84.5#
264	84.1	51.8	77.8#

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2/25/2015 3:34:40 PM



#16

Phenanthrene

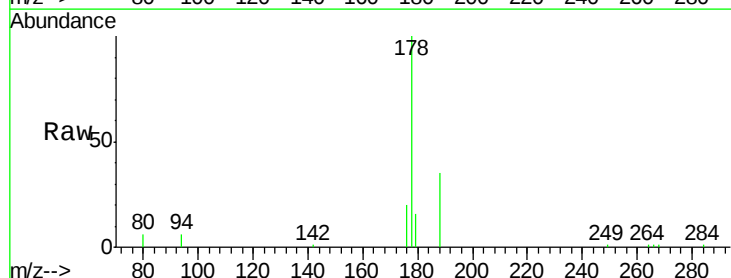
Concen: 0.15 ng

RT: 19.81 min Scan# 3179

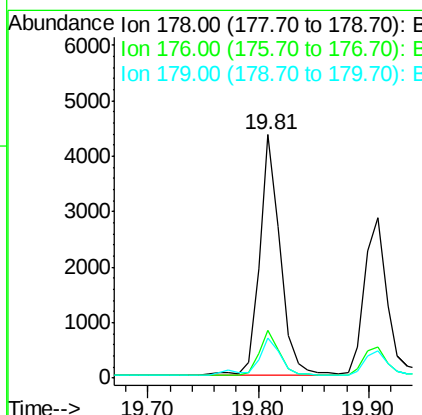
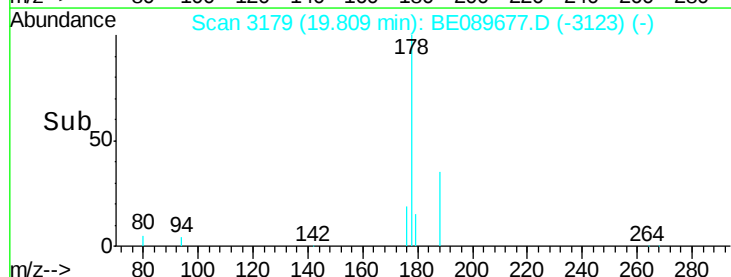
Delta R.T. 0.00 min

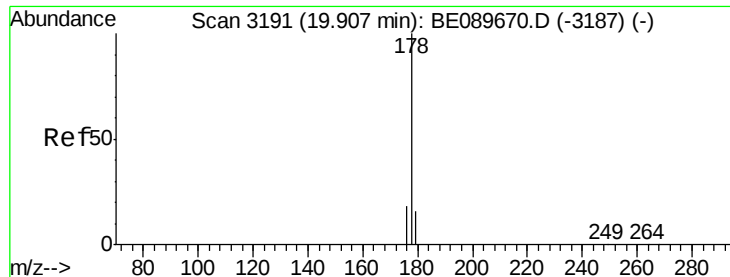
Lab File: BE089677.D

Acq: 24 Feb 2015 18:56



Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.3	22.9
179	17.4	12.5	18.7





#17

Anthracene

Concen: 0.13 ng

RT: 19.91 min Scan# 3190

Delta R.T. 0.00 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

Instrument :

BNA_E

ClientSampleId :

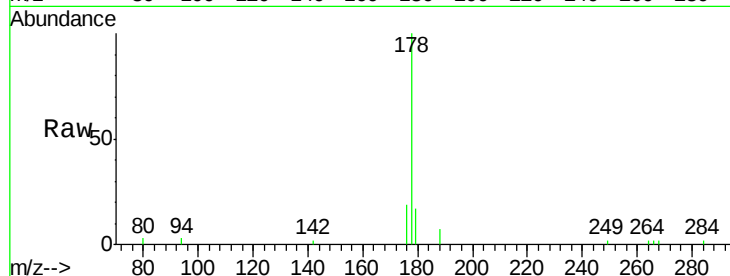
MDL-03-S

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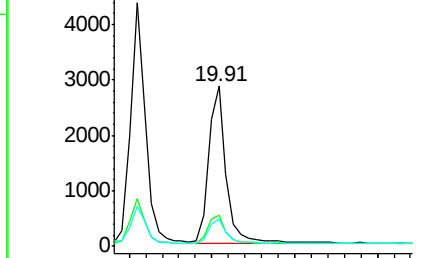
Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.8	22.2
179	14.7	12.2	18.2



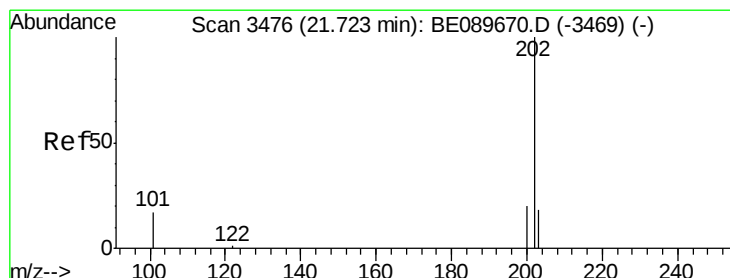
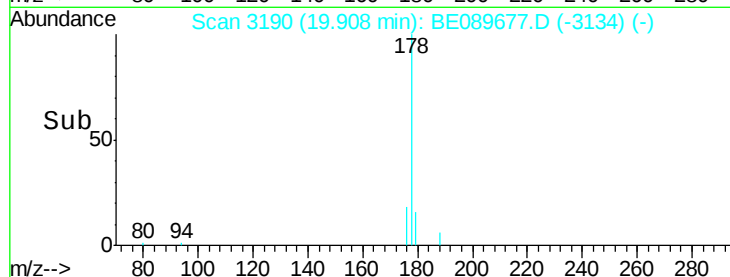
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#18

Fluoranthene

Concen: 0.12 ng

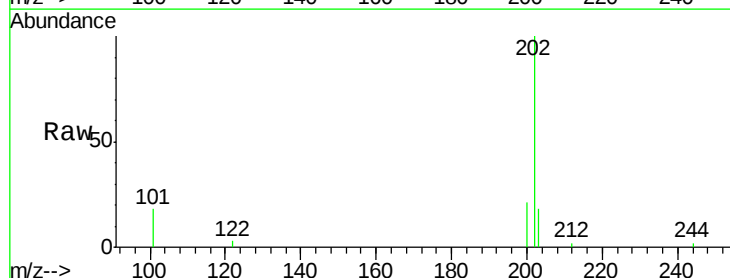
RT: 21.72 min Scan# 3474

Delta R.T. -0.00 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

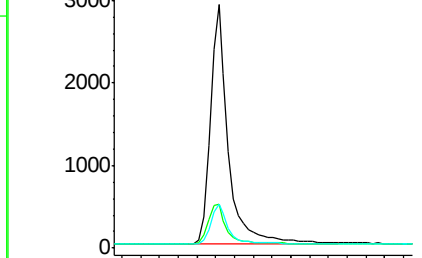
Tgt Ion	Ratio	Lower	Upper
202	100		
101	17.5	14.9	22.3
203	16.9	13.8	20.6



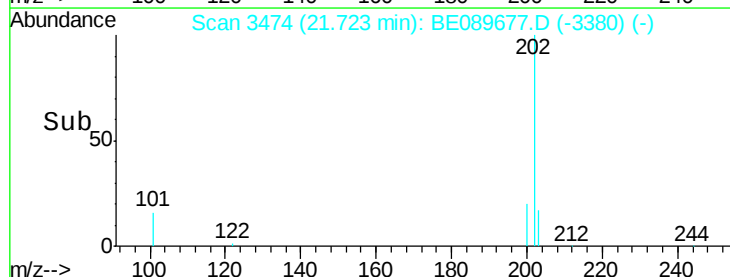
Abundance Ion 202.00 (201.70 to 202.70): E

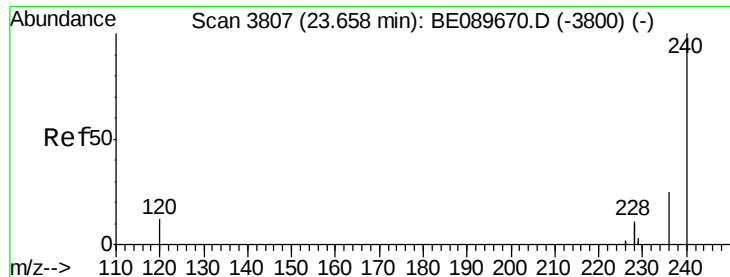
Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3805

Delta R.T. -0.00 min

Lab File: BE089677.D

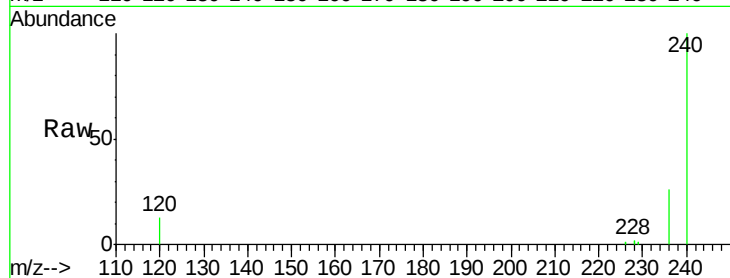
Acq: 24 Feb 2015 18:56

Instrument :

BNA_E

ClientSampleId :

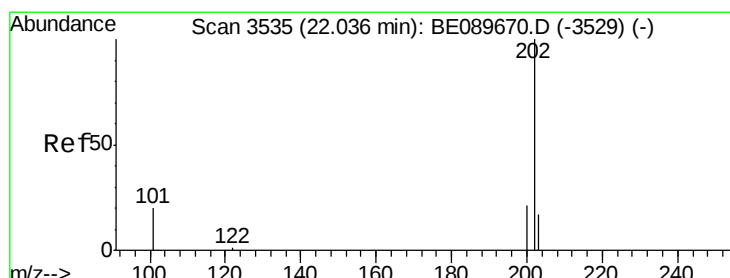
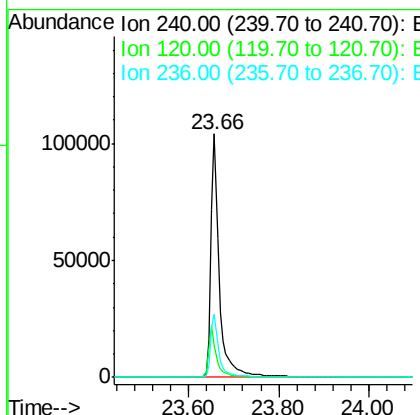
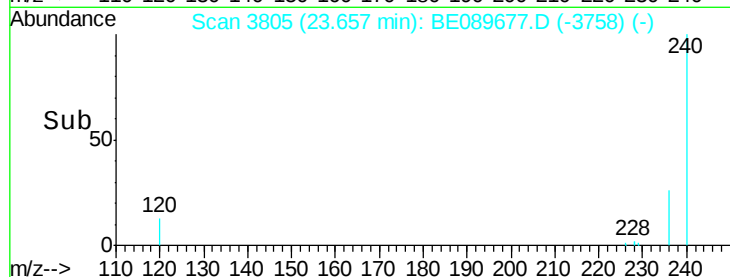
MDL-03-S



Tgt Ion:	240	Resp:	134141
Ion Ratio	Lower	Upper	
240	100		
120	13.1	9.4	14.0
236	25.8	19.9	29.9

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#20

Pyrene

Concen: 0.13 ng

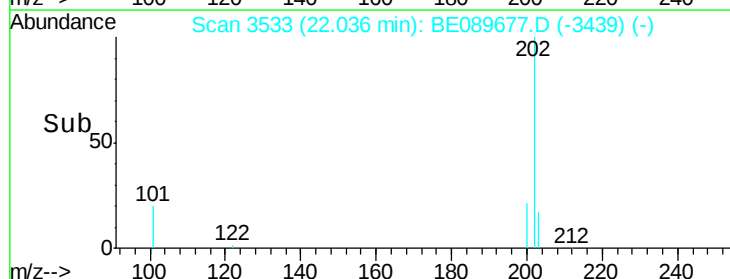
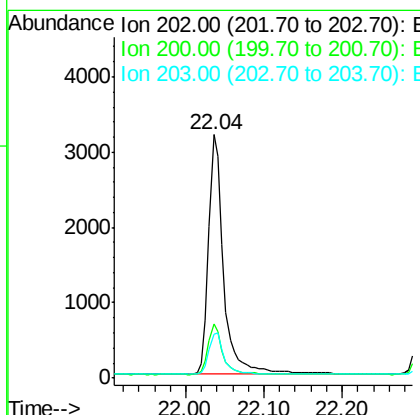
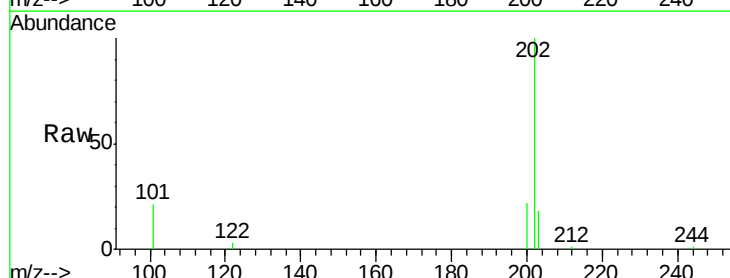
RT: 22.04 min Scan# 3533

Delta R.T. -0.00 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

Tgt Ion:	202	Resp:	4242
Ion Ratio	Lower	Upper	
202	100		
200	20.1	16.4	24.6
203	17.7	13.9	20.9





#21

Terphenyl-d14

Concen: 10.86 ng

RT: 22.30 min Scan# 3583

Delta R.T. -0.00 min

Lab File: BE089677.D

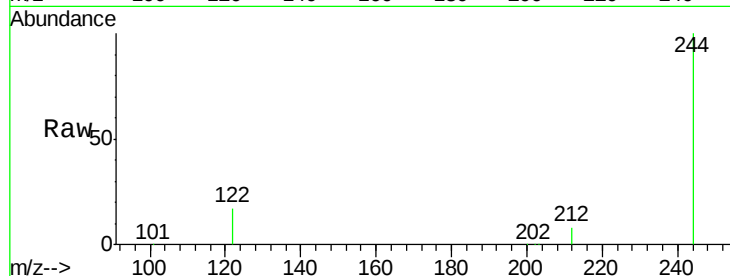
Acq: 24 Feb 2015 18:56

Instrument :

BNA_E

ClientSampleId :

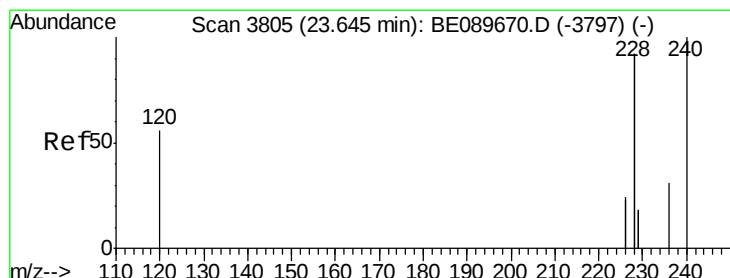
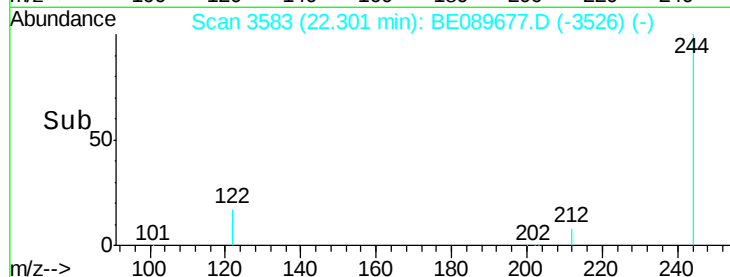
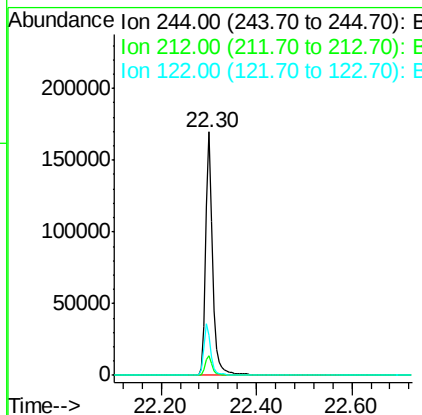
MDL-03-S



Tgt Ion:	244	Resp:	170906
Ion Ratio	Lower	Upper	
244	100		
212	8.1	7.0	10.6
122	16.6	15.4	23.0

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#22

Benzo(a)anthracene

Concen: 0.14 ng

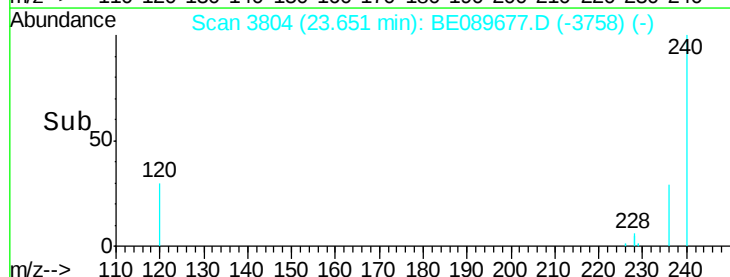
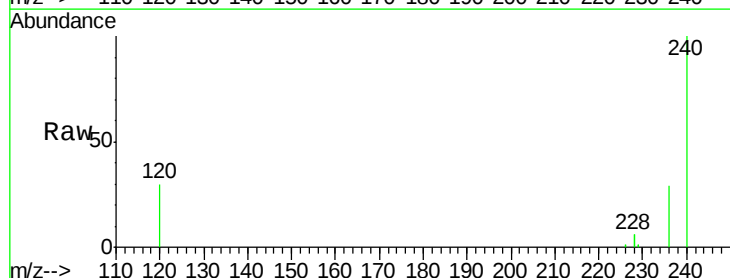
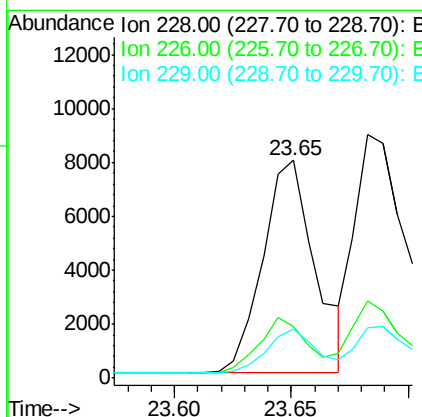
RT: 23.65 min Scan# 3804

Delta R.T. 0.01 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56

Tgt Ion:	228	Resp:	12269
Ion Ratio	Lower	Upper	
228	100		
226	23.9	20.6	31.0
229	22.7	15.8	23.6





#23

Chrysene

Concen: 0.16 ng

RT: 23.68 min Scan# 3809

Delta R.T. -0.00 min

Lab File: BE089677.D

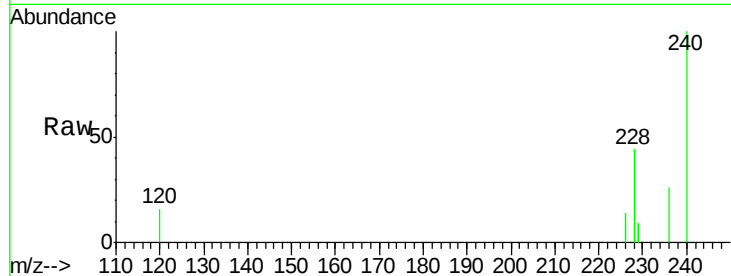
Acq: 24 Feb 2015 18:56

Instrument :

BNA_E

ClientSampleId :

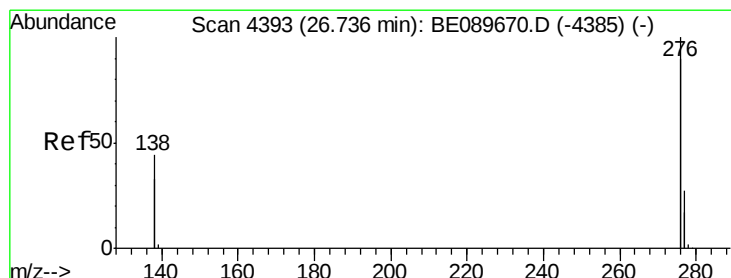
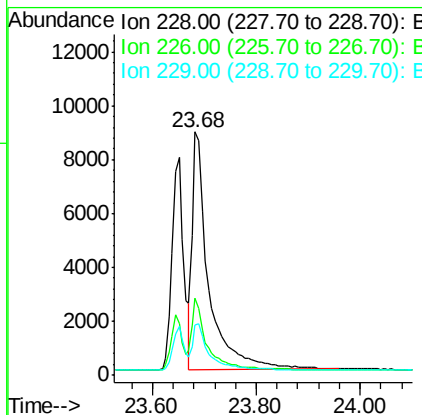
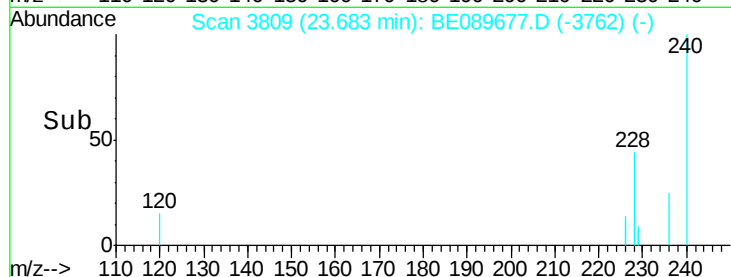
MDL-03-S



Tgt Ion:	228	Resp:	19285
Ion Ratio	Lower	Upper	
228	100		
226	32.0	23.6	35.4
229	20.5	15.3	22.9

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2/25/2015 3:34:40 PM



#24

Indeno(1,2,3-cd)pyrene

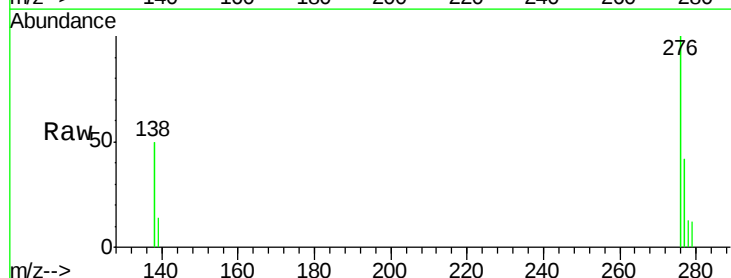
Concen: 0.29 ng

RT: 26.73 min Scan# 4391

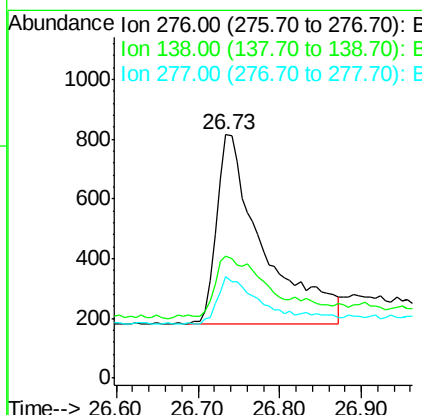
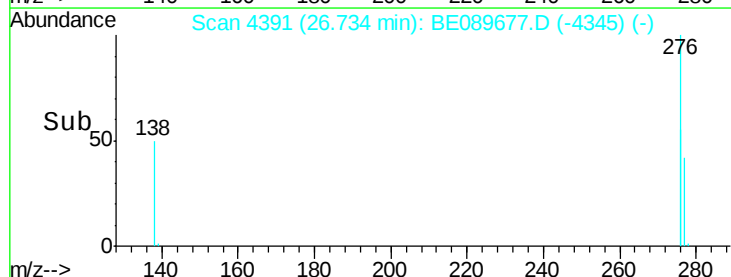
Delta R.T. -0.00 min

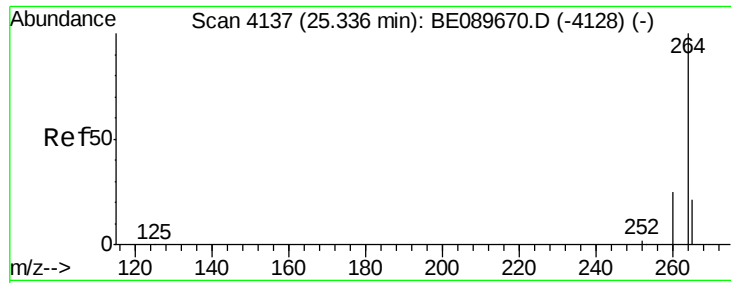
Lab File: BE089677.D

Acq: 24 Feb 2015 18:56



Tgt Ion:	276	Resp:	2469
Ion Ratio	Lower	Upper	
276	100		
138	32.6	0.0	0.0#
277	22.7	5.2	7.8#





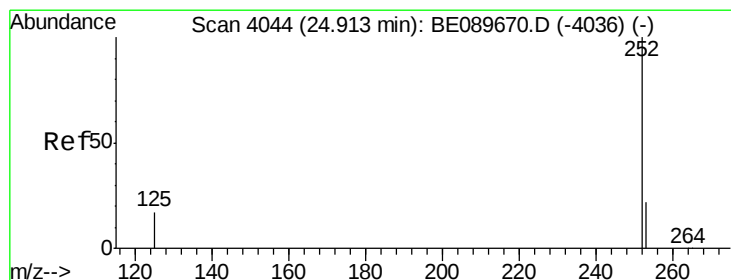
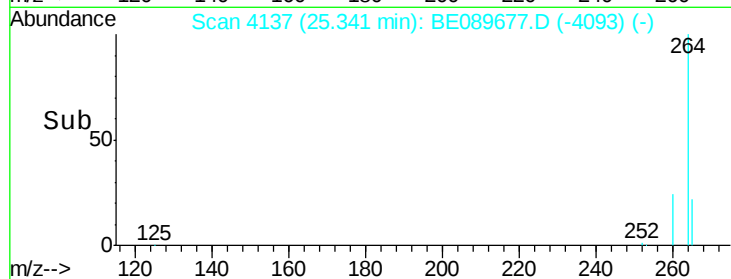
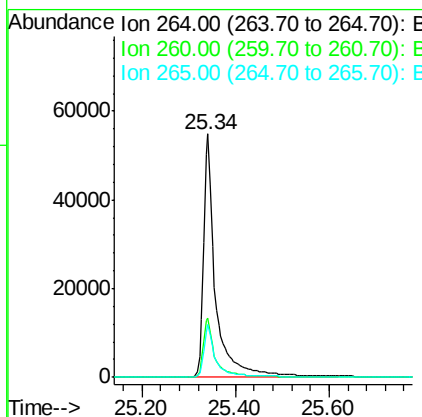
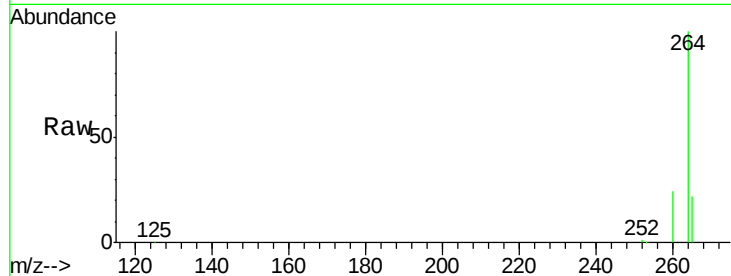
#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4137
 Delta R.T. 0.00 min
 Lab File: BE089677.D
 Acq: 24 Feb 2015 18:56

Instrument :
 BNA_E
 ClientSampleId :
 MDL-03-S

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	20.2	30.4
265	21.7	17.0	25.4

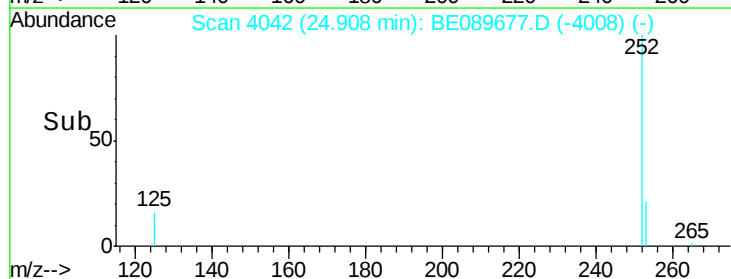
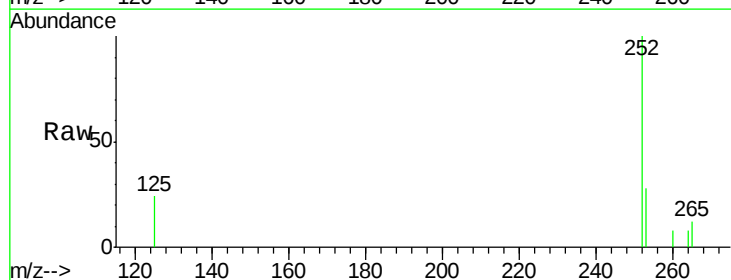
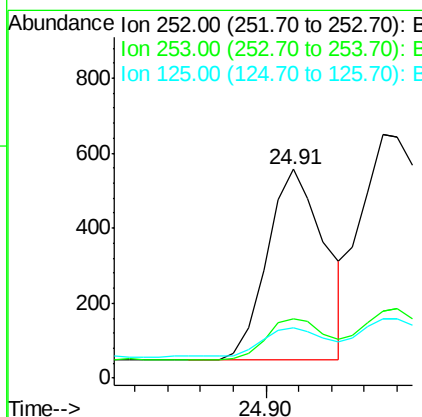
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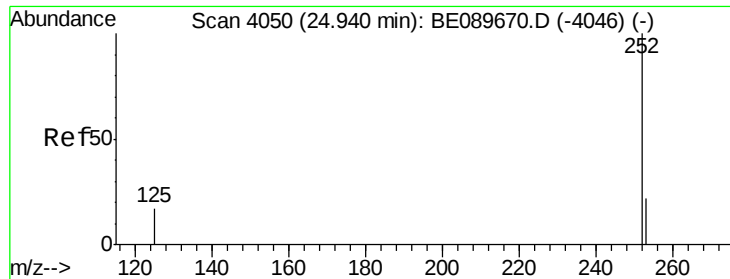
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#26
 Benzo(b)fluoranthene
 Concen: 0.36 ng
 RT: 24.91 min Scan# 4042
 Delta R.T. -0.00 min
 Lab File: BE089677.D
 Acq: 24 Feb 2015 18:56

Tgt Ion	Ratio	Lower	Upper
252	100		
253	28.2	18.6	27.8#
125	24.5	15.0	22.6#





#27

Benzo(k)fluoranthene

Concen: 0.22 ng m

RT: 24.94 min Scan# 4048

Delta R.T. -0.00 min

Lab File: BE089677.D

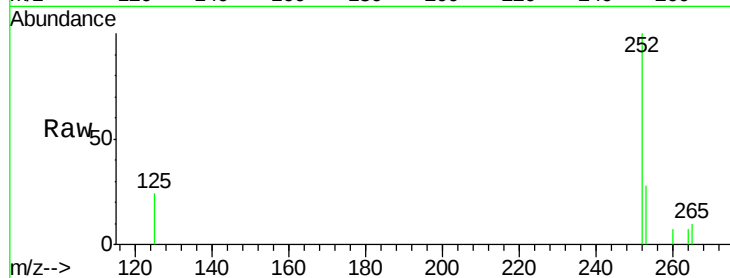
Acq: 24 Feb 2015 18:56

Instrument :

BNA_E

ClientSampleId :

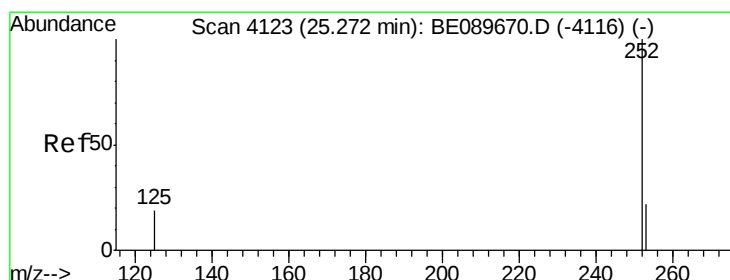
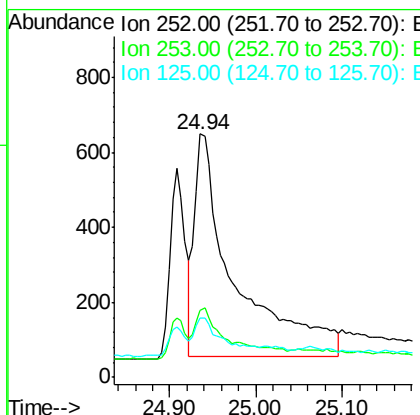
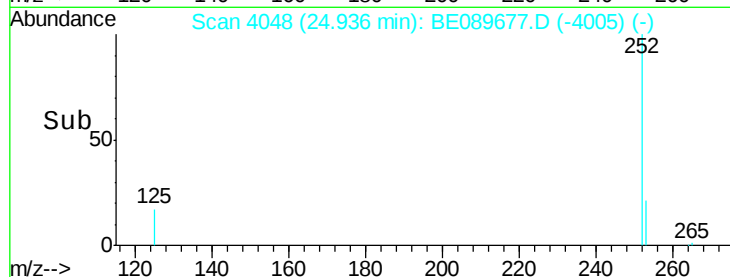
MDL-03-S



Tgt Ion	Ratio	Lower	Upper
252	100		
253	27.6	18.0	27.0#
125	24.2	14.3	21.5#

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#28

Benzo(a)pyrene

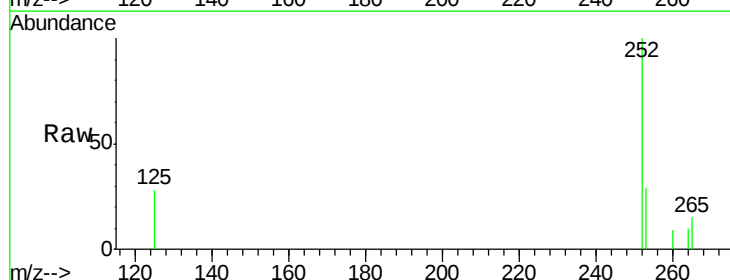
Concen: 0.13 ng

RT: 25.27 min Scan# 4121

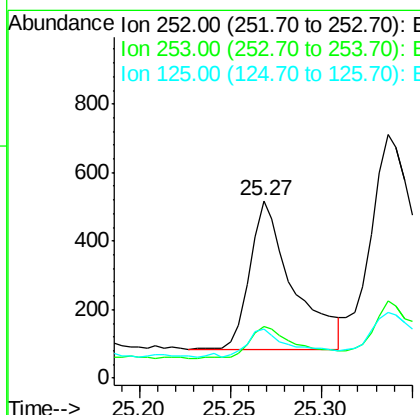
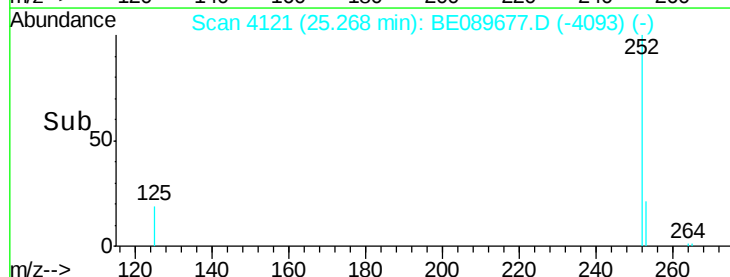
Delta R.T. -0.00 min

Lab File: BE089677.D

Acq: 24 Feb 2015 18:56



Tgt Ion	Ratio	Lower	Upper
252	100		
253	29.4	18.8	28.2#
125	28.0	16.6	24.8#





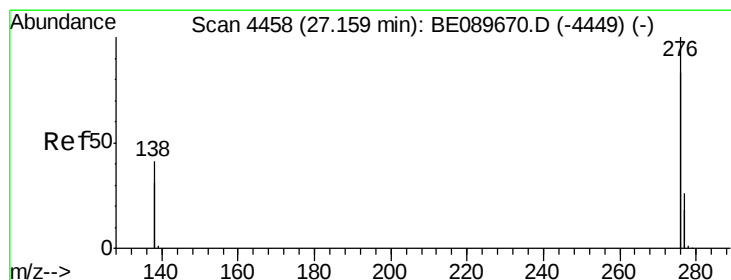
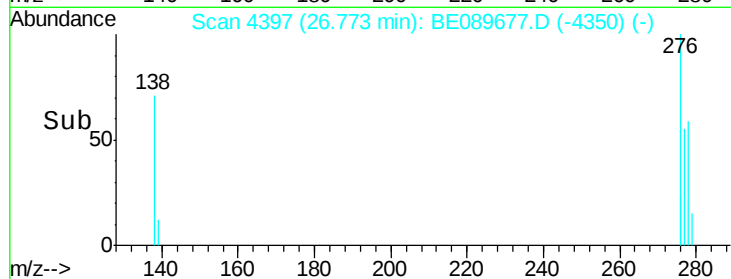
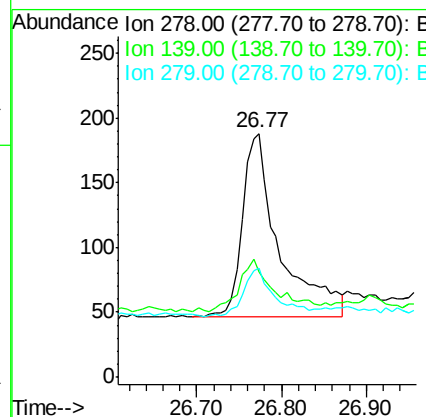
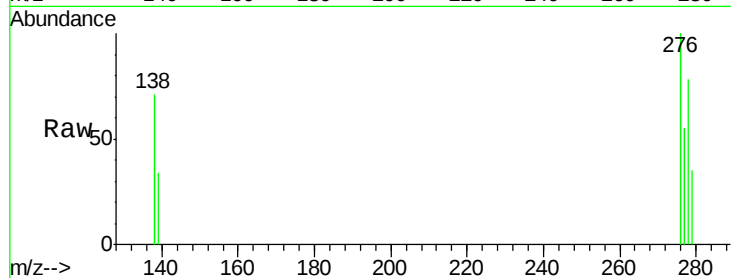
#29
Dibenzo(a,h)anthracene
Concen: 0.34 ng
RT: 26.77 min Scan# 4397
Delta R.T. 0.01 min
Lab File: BE089677.D
Acq: 24 Feb 2015 18:56

Instrument :
BNA_E
ClientSampleId :
MDL-03-S

Tgt Ion	Ratio	Lower	Upper
278	100		
139	43.1	30.4	45.6
279	44.7	22.0	33.0

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#30
Benzo(g,h,i)perylene
Concen: 0.38 ng
RT: 27.15 min Scan# 4455
Delta R.T. -0.01 min
Lab File: BE089677.D
Acq: 24 Feb 2015 18:56

Tgt Ion	Ratio	Lower	Upper
276	100		
277	36.1	21.0	31.6
138	47.6	33.0	49.4

