

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE031916\
 Data File : BE091485.D
 Acq On : 18 Mar 2016 15:17
 Operator : UM/SJ
 Sample : MDL-05-W
 Misc : 0.08PPM
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-W

Manual Integrations
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 3/22/2016 10:48:38 AM

Quant Time: Mar 18 16:09:54 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE031816.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 18 14:14:30 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.84	152	51887	5.00	ng	0.00
6) Naphthalene-d8	10.61	136	224960	5.00	ng	0.00
10) Acenaphthene-d10	14.44	164	124443	5.00	ng	0.00
16) Phenanthrene-d10	17.17	188	326718	5.00	ng	-0.01
22) Chrysene-d12	21.34	240	440264	5.00	ng	0.00
28) Perylene-d12	23.80	264	379811	5.00	ng	-0.01

System Monitoring Compounds

4) 2-Fluorophenol	5.43	112	87550	7.34	ng	0.00
5) Phenol-d6	6.99	99	113706	7.31	ng	0.00
7) Nitrobenzene-d5	8.98	82	38845	3.23	ng	0.00
11) 2,4,6-Tribromophenol	15.92	330	29021	6.37	ng	-0.01
12) 2-Fluorobiphenyl	13.07	172	137253	4.38	ng	0.00
24) Terphenyl-d14	19.78	244	237857	4.49	ng	-0.02

Target Compounds

						Qvalue
2) 1,4-Dioxane	3.37	88	629	0.10	ng	# 77
3) n-Nitrosodimethylamine	3.70	42	225	0.02	ng	# 4
8) Naphthalene	10.65	128	2862	0.05	ng	# 93
9) 2-Methylnaphthalene	12.27	142	1612	0.05	ng	# 93
13) Acenaphthylene	14.16	152	2276	0.17	ng	# 84
14) Acenaphthene	14.50	154	1868	0.05	ng	93
15) Fluorene	15.48	166	2292	0.05	ng	98
17) Hexachlorobenzene	16.48	284	766	0.05	ng	98
18) Pentachlorophenol	16.83	266	339	0.25	ng	# 90
19) Phenanthrene	17.22	178	5240	0.06	ng	96
20) Anthracene	17.31	178	3546	0.04	ng	99
21) Fluoranthene	19.22	202	5616	0.05	ng	98
23) Pyrene	19.59	202	5565	0.05	ng	97
25) Benzo(a)anthracene	21.31	228	7572m	0.06	ng	
26) Chrysene	21.36	228	10392m	0.09	ng	
27) Indeno(1,2,3-cd)pyrene	26.39	276	5526	0.04	ng	100
29) Benzo(b)fluoranthene	23.04	252	8215	0.07	ng	# 81
30) Benzo(k)fluoranthene	23.09	252	7169	0.06	ng	# 83
31) Benzo(a)pyrene	23.68	252	5036	0.05	ng	# 70
32) Dibenzo(a,h)anthracene	26.42	278	4322	0.04	ng	# 82
33) Benzo(g,h,i)perylene	27.18	276	5107	0.05	ng	# 91

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

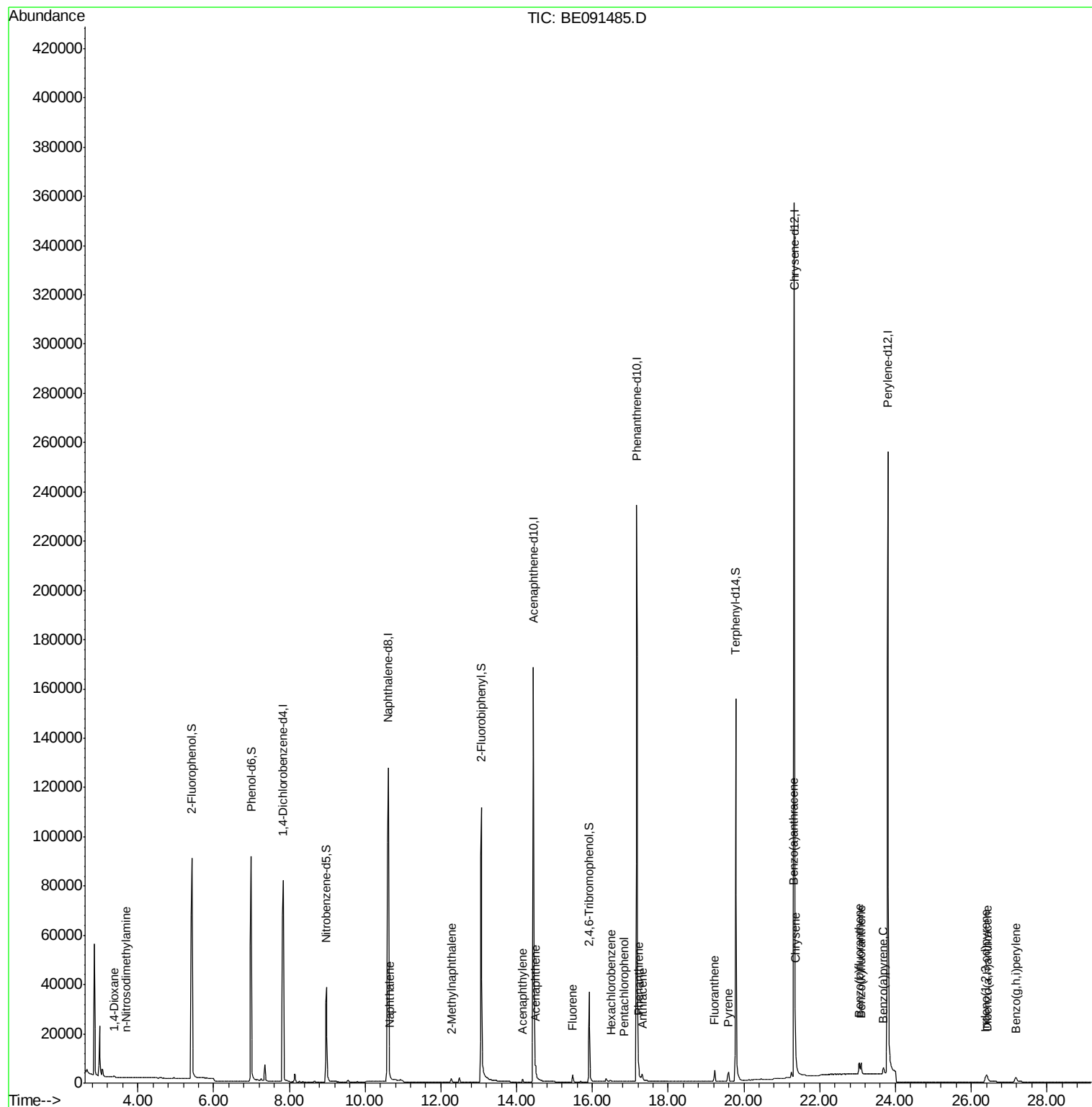
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE031916\
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Quant Time: Mar 18 16:09:54 2016
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE031816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 18 14:14:30 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.84 min Scan# 302

Delta R.T. -0.00 min

Lab File: BE091485.D

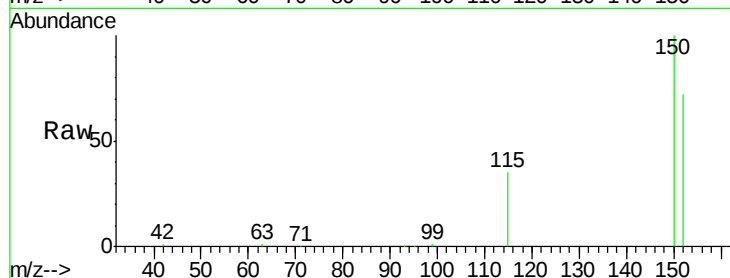
Acq: 18 Mar 2016 15:17

Instrument :

BNA_E

ClientSampleId :

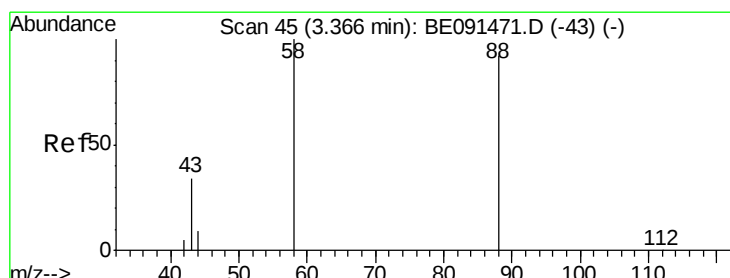
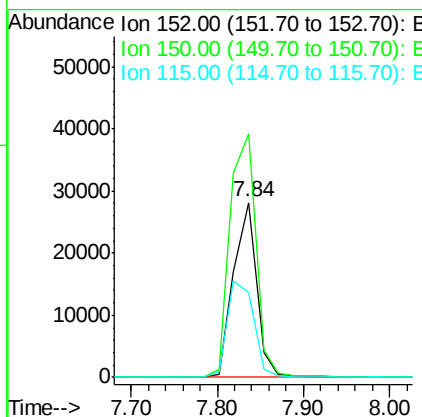
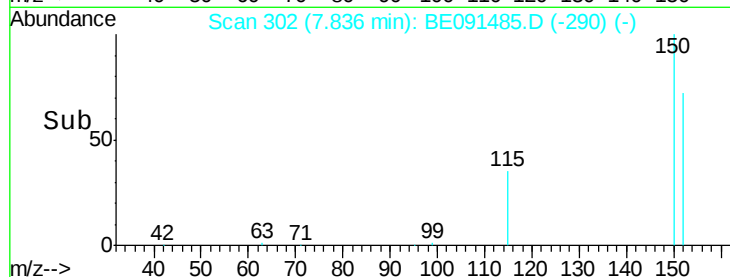
MDL-05-W



Tgt Ion:	152	Resp:	51887
Ion Ratio	Lower	Upper	
152	100		
150	139.3	122.2	183.2
115	48.8	45.9	68.9

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#2

1,4-Dioxane

Concen: 0.10 ng

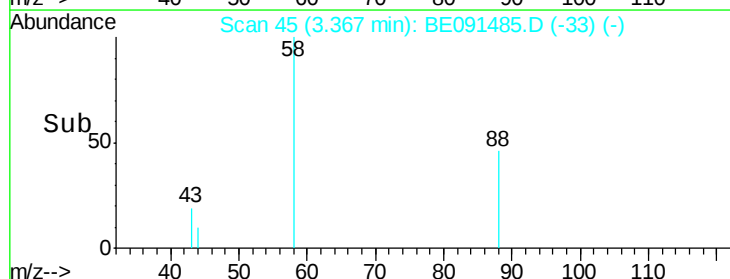
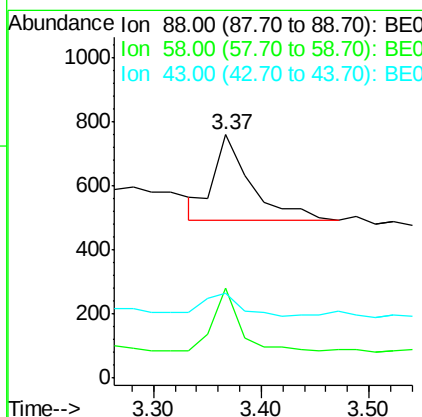
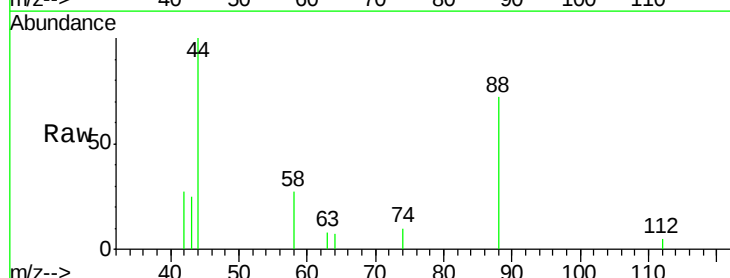
RT: 3.37 min Scan# 45

Delta R.T. 0.00 min

Lab File: BE091485.D

Acq: 18 Mar 2016 15:17

Tgt Ion:	88	Resp:	629
Ion Ratio	Lower	Upper	
88	100		
58	51.2	61.0	91.6#
43	27.7	25.4	38.2





#3

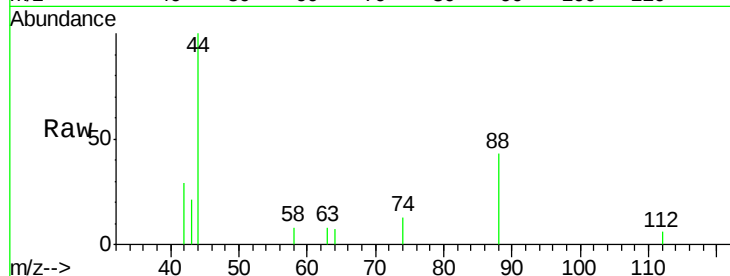
n-Nitrosodimethylamine
Concen: 0.02 ng
RT: 3.70 min Scan# 64
Delta R.T. 0.02 min
Lab File: BE091485.D
Acq: 18 Mar 2016 15:17

Instrument :
BNA_E
ClientSampleId :
MDL-05-W

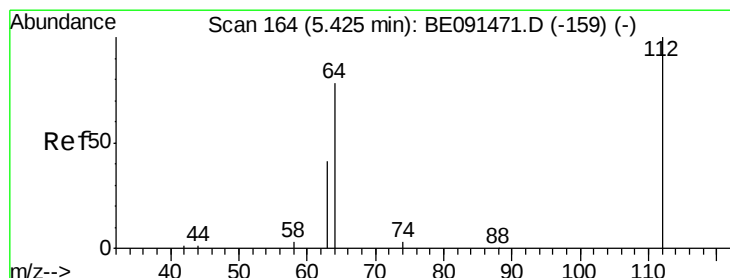
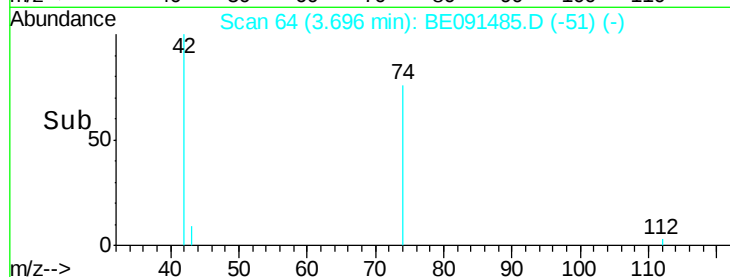
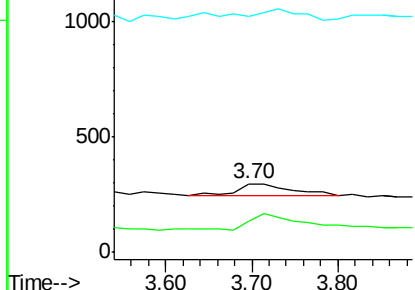
Tgt Ion	Ratio	Lower	Upper
42	100		
74	0.0	84.3	126.5#
44	0.0	6.7	10.1#

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Abundance Ion 42.00 (41.70 to 42.70): BE0
Ion 74.00 (73.70 to 74.70): BE0
Ion 44.00 (43.70 to 44.70): BE0

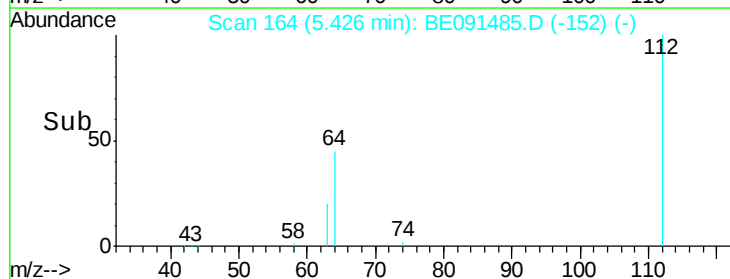
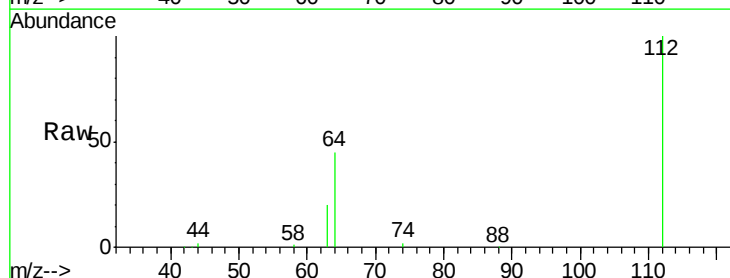
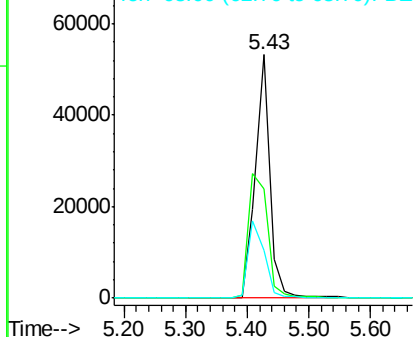


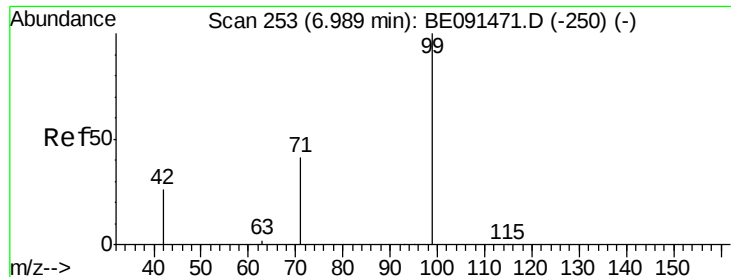
#4

2-Fluorophenol
Concen: 7.34 ng
RT: 5.43 min Scan# 164
Delta R.T. 0.00 min
Lab File: BE091485.D
Acq: 18 Mar 2016 15:17

Tgt Ion	Ratio	Lower	Upper
112	100		
64	66.2	53.3	79.9
63	35.7	29.8	44.8

Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BE0
Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 7.31 ng

RT: 6.99 min Scan# 253

Delta R.T. -0.00 min

Lab File: BE091485.D

Acq: 18 Mar 2016 15:17

Instrument :

BNA_E

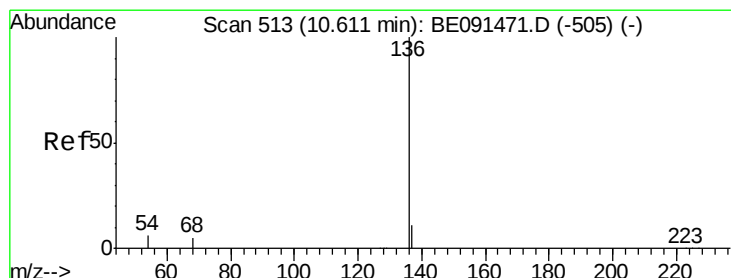
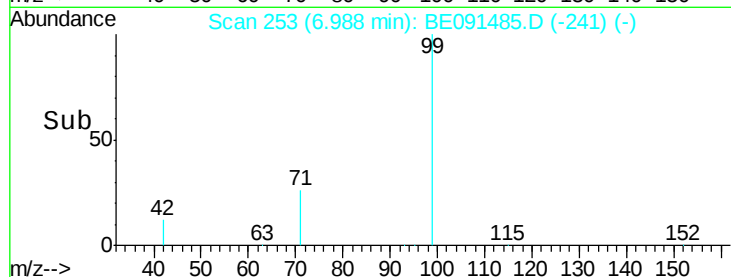
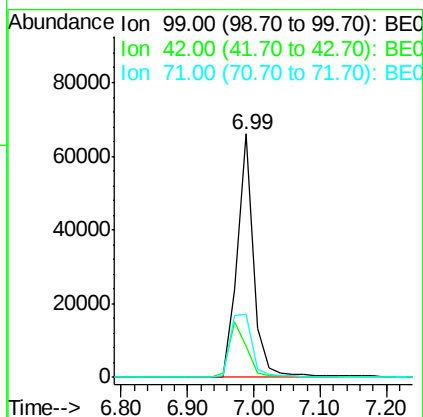
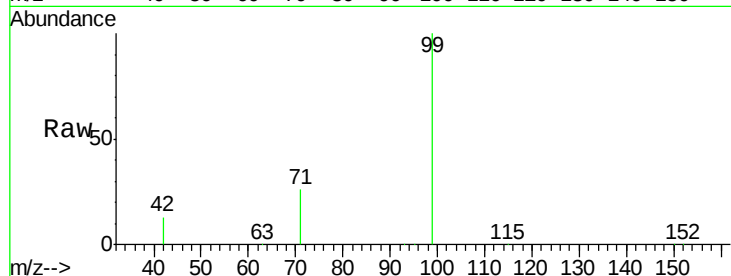
ClientSampleId :

MDL-05-W

Tgt Ion:	99	Resp:	113706
Ion Ratio	Lower	Upper	
99	100		
42	24.2	20.6	30.8
71	34.9	29.0	43.4

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#6

Naphthalene-d8

Concen: 5.00 ng

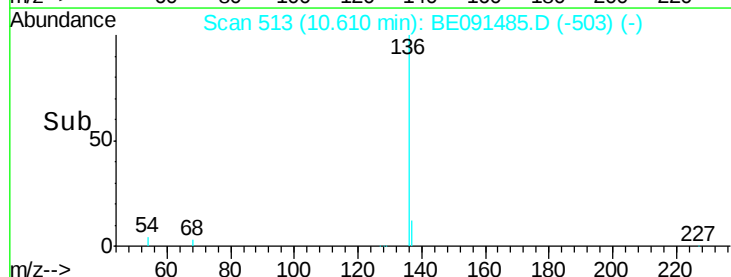
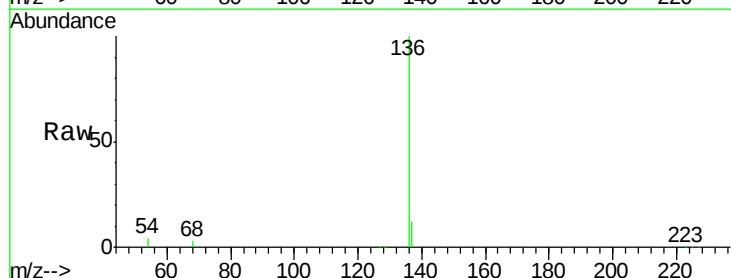
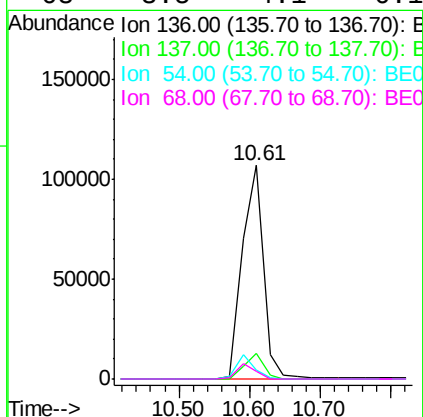
RT: 10.61 min Scan# 513

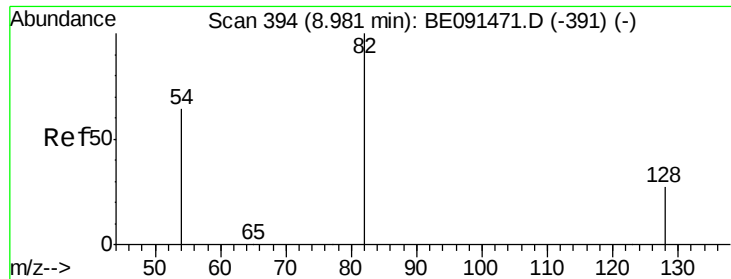
Delta R.T. -0.00 min

Lab File: BE091485.D

Acq: 18 Mar 2016 15:17

Tgt Ion:	136	Resp:	224960
Ion Ratio	Lower	Upper	
136	100		
137	11.8	8.8	13.2
54	4.2	5.2	7.8#
68	3.5	4.1	6.1#





#7

Nitrobenzene-d5

Concen: 3.23 ng

RT: 8.98 min Scan# 394

Delta R.T. 0.00 min

Lab File: BE091485.D

Acq: 18 Mar 2016 15:17

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

Tgt Ion: 82 Resp: 38845

Ion Ratio Lower Upper

82 100

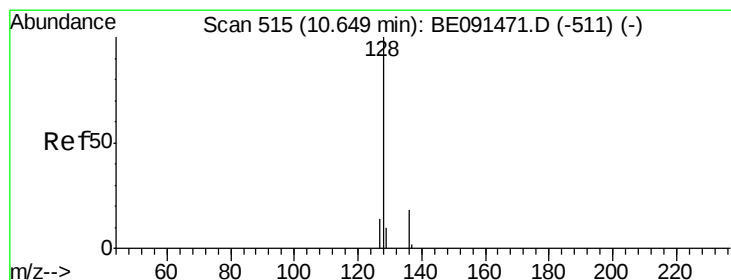
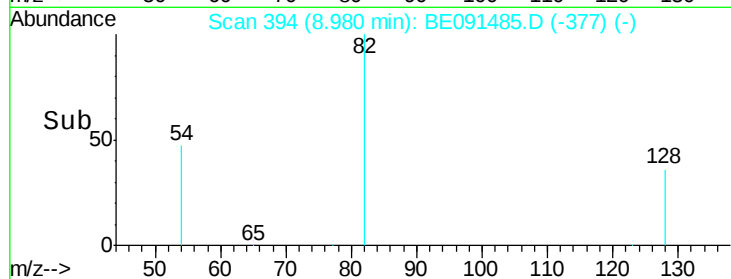
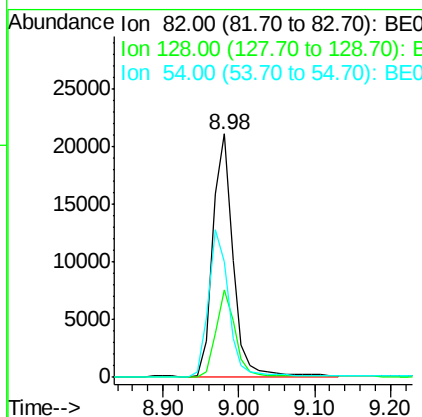
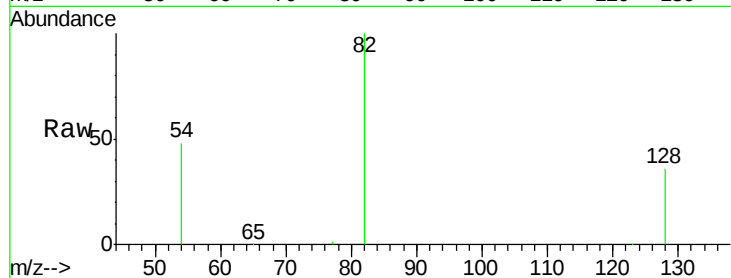
128 35.9 23.5 35.3#

54 47.5 52.4 78.6#

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#8

Naphthalene

Concen: 0.05 ng

RT: 10.65 min Scan# 515

Delta R.T. -0.00 min

Lab File: BE091485.D

Acq: 18 Mar 2016 15:17

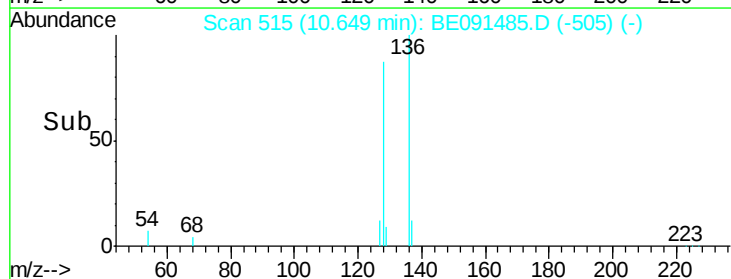
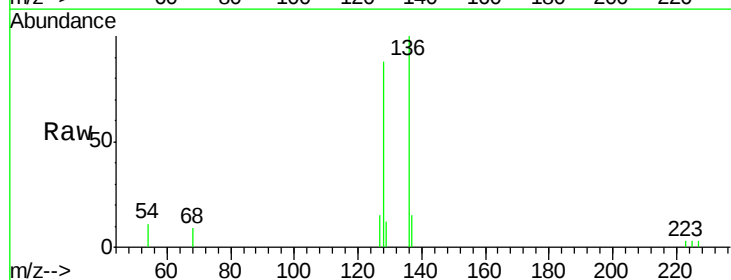
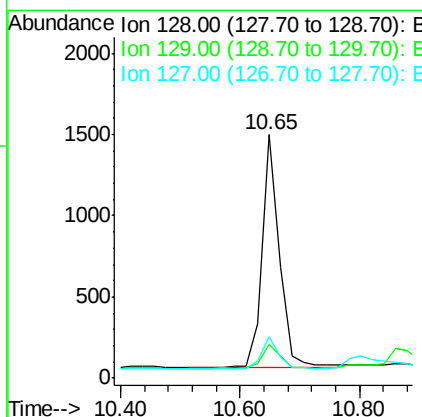
Tgt Ion: 128 Resp: 2862

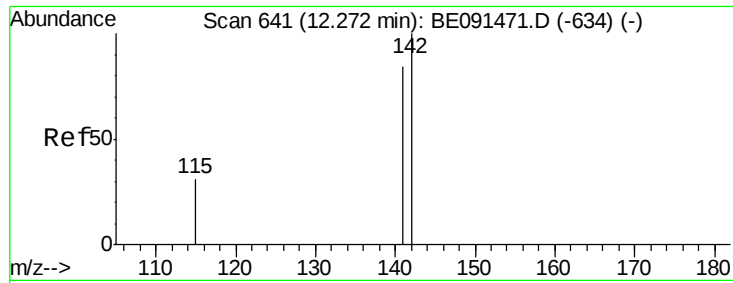
Ion Ratio Lower Upper

128 100

129 14.0 8.2 12.2#

127 16.7 11.8 17.8





#9

2-Methylnaphthalene

Concen: 0.05 ng

RT: 12.27 min Scan# 641

Delta R.T. 0.00 min

Lab File: BE091485.D

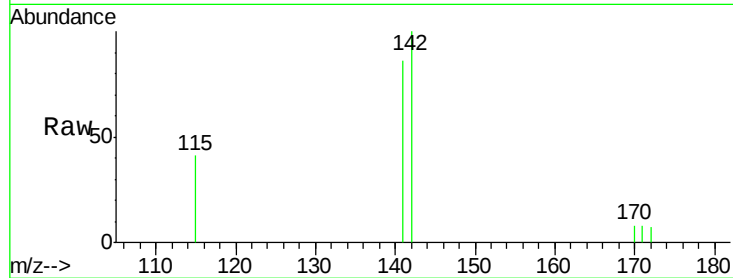
Acq: 18 Mar 2016 15:17

Instrument :

BNA_E

ClientSampled :

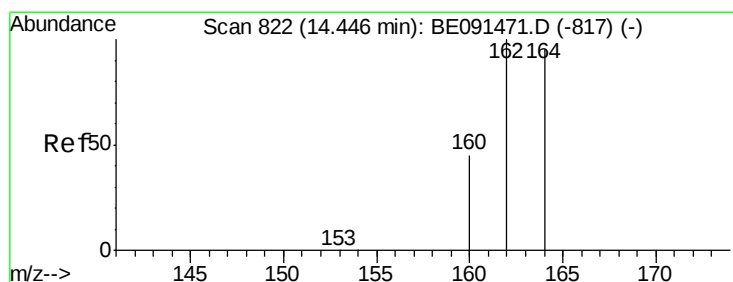
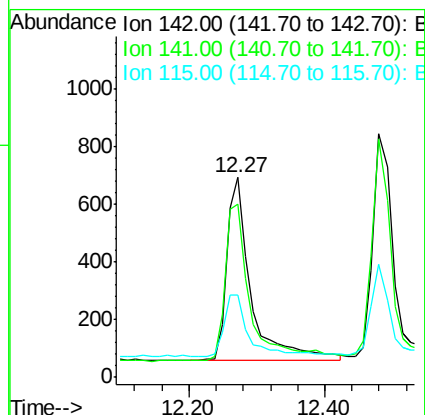
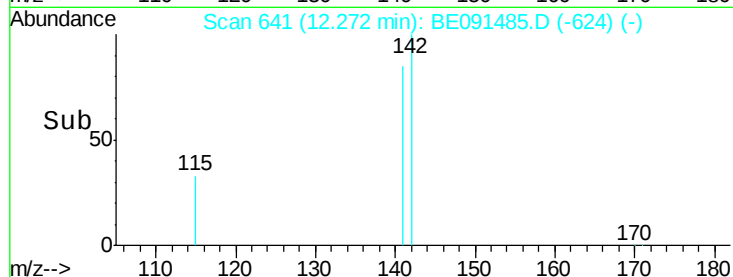
MDL-05-W



Tgt Ion:	142	Resp:	1612
Ion Ratio	Lower	Upper	
142	100		
141	86.3	66.9	100.3
115	41.2	25.1	37.7

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#10

Acenaphthene-d10

Concen: 5.00 ng

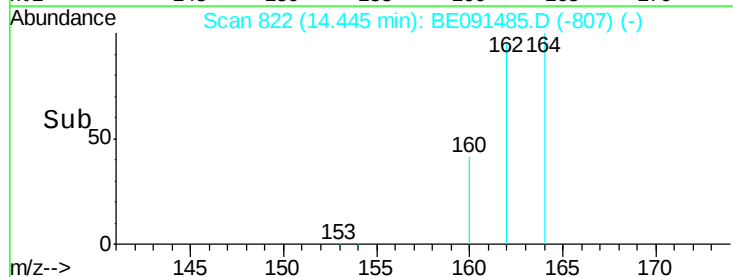
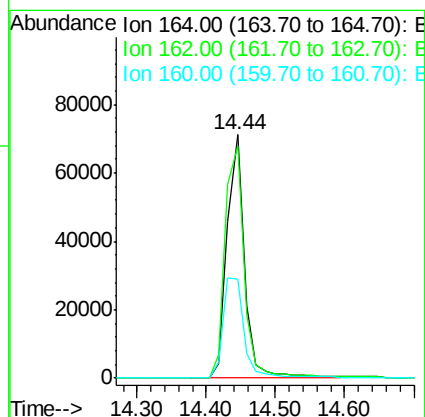
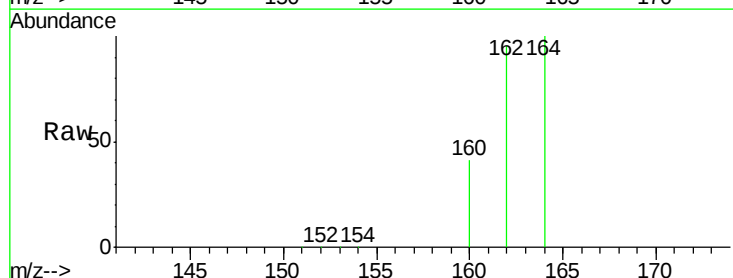
RT: 14.44 min Scan# 822

Delta R.T. -0.00 min

Lab File: BE091485.D

Acq: 18 Mar 2016 15:17

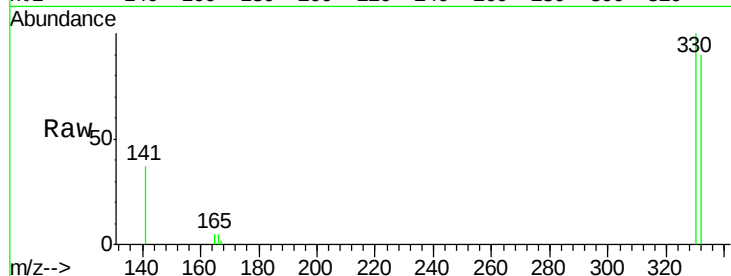
Tgt Ion:	164	Resp:	124443
Ion Ratio	Lower	Upper	
164	100		
162	95.5	84.4	126.6
160	40.8	37.7	56.5





#11
 2,4,6-Tribromophenol
 Concen: 6.37 ng
 RT: 15.92 min Scan# 941
 Delta R.T. -0.01 min
 Lab File: BE091485.D
 Acq: 18 Mar 2016 15:17

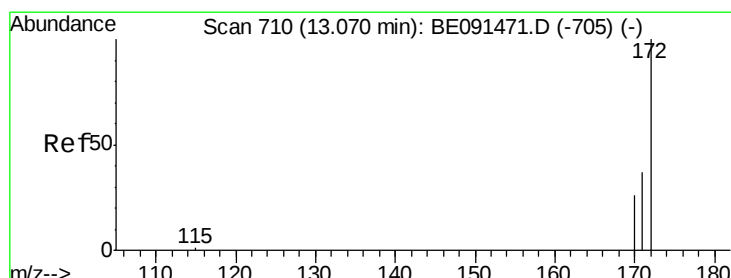
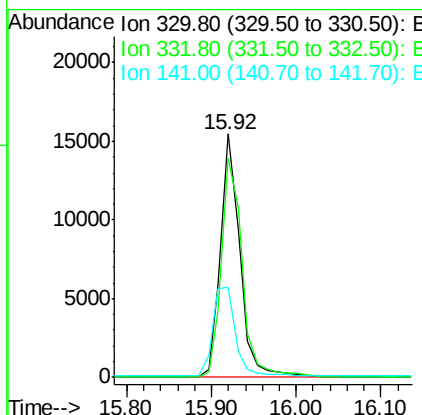
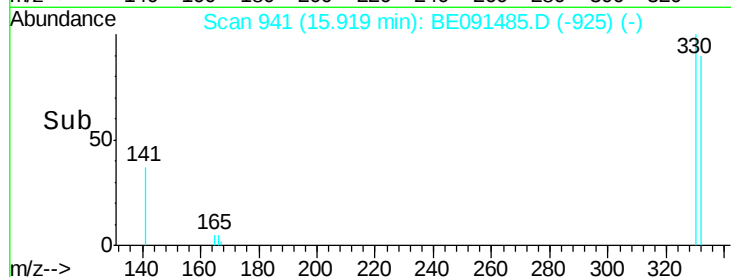
Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-W



Tgt Ion	Ratio	Resp	Lower	Upper
330	100	29021		
332	95.3	79.2	118.8	
141	43.5	28.1	42.1#	

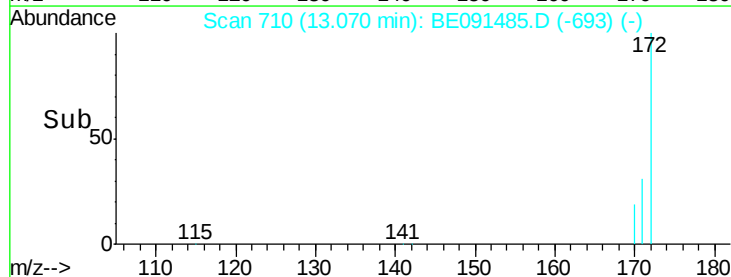
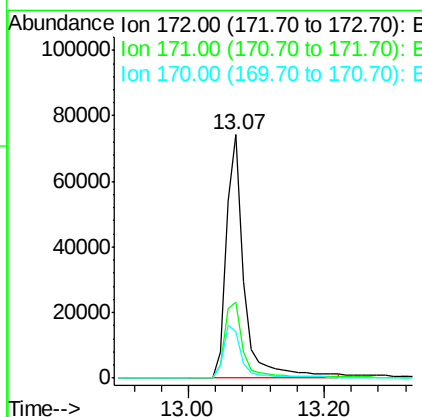
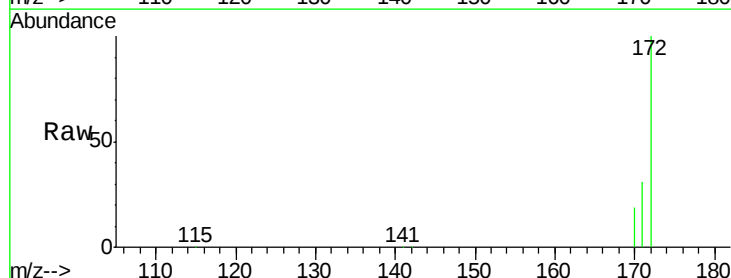
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#12
 2-Fluorobiphenyl
 Concen: 4.38 ng
 RT: 13.07 min Scan# 710
 Delta R.T. 0.00 min
 Lab File: BE091485.D
 Acq: 18 Mar 2016 15:17

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	137253		
171	31.1	29.8	44.8	
170	19.1	21.4	32.2#	





#13

Acenaphthylene

Concen: 0.17 ng

RT: 14.16 min Scan# 801

Delta R.T. -0.00 min

Lab File: BE091485.D

Acq: 18 Mar 2016 15:17

Instrument :

BNA_E

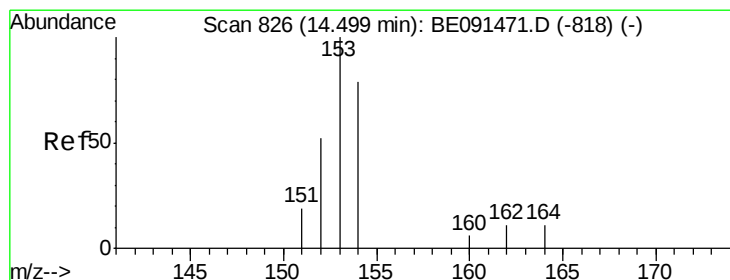
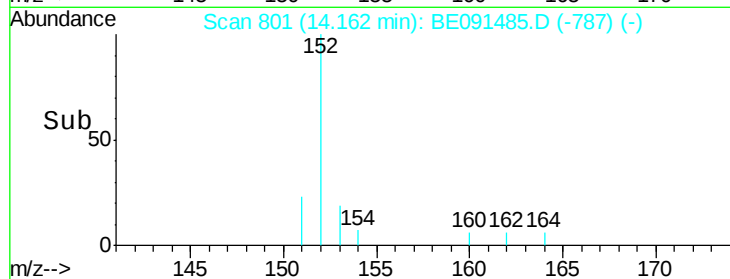
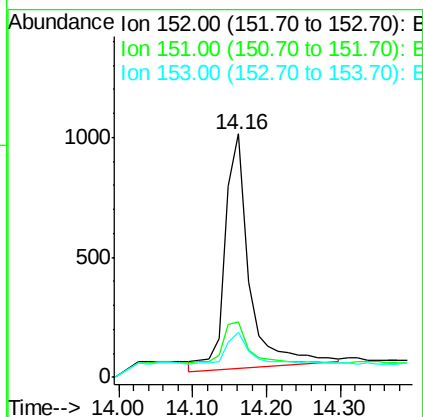
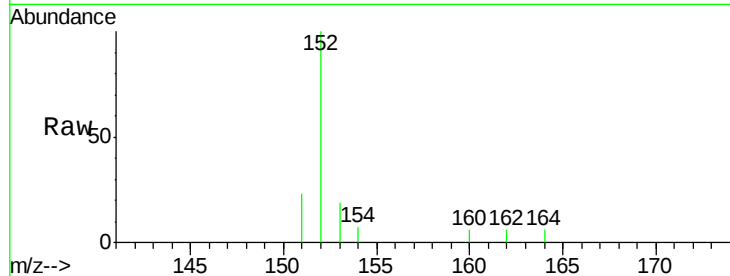
ClientSampleId :

MDL-05-W

Tgt Ion:	152	Resp:	2276
Ion Ratio	Lower	Upper	
152	100		
151	27.2	16.3	24.5#
153	21.3	11.1	16.7#

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#14

Acenaphthene

Concen: 0.05 ng

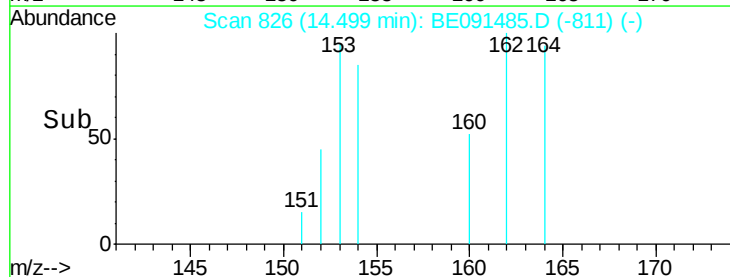
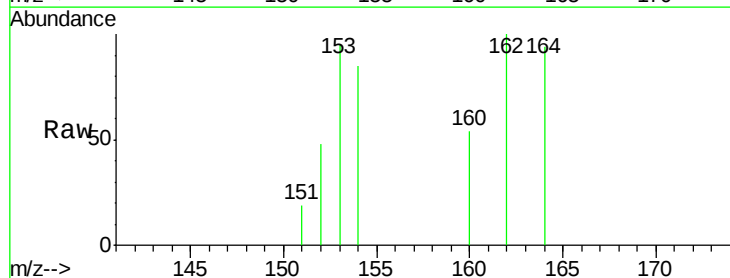
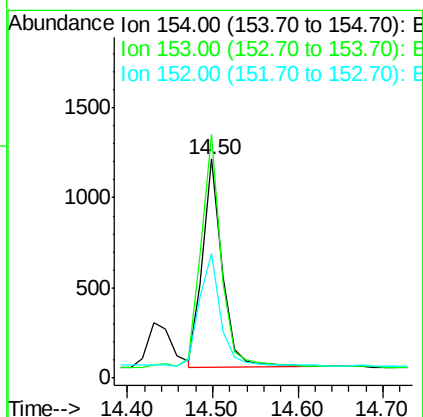
RT: 14.50 min Scan# 826

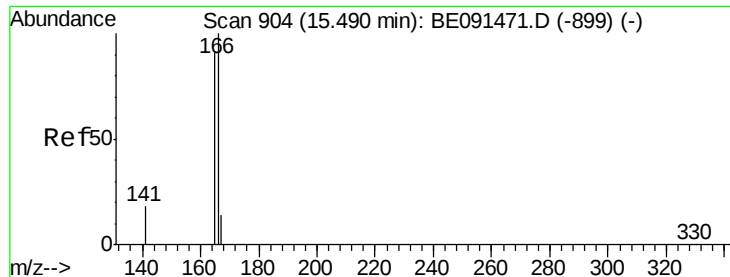
Delta R.T. -0.00 min

Lab File: BE091485.D

Acq: 18 Mar 2016 15:17

Tgt Ion:	154	Resp:	1868
Ion Ratio	Lower	Upper	
154	100		
153	117.7	87.3	130.9
152	57.1	42.9	64.3





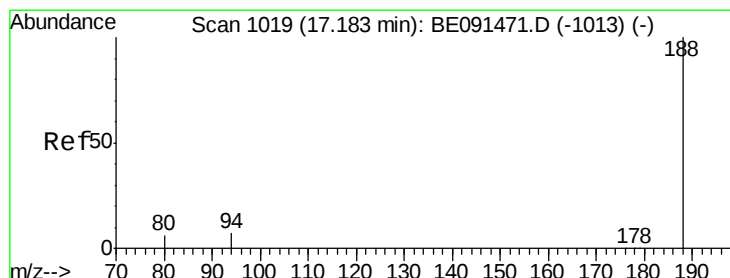
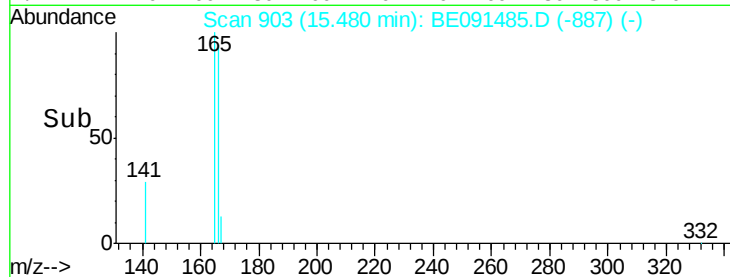
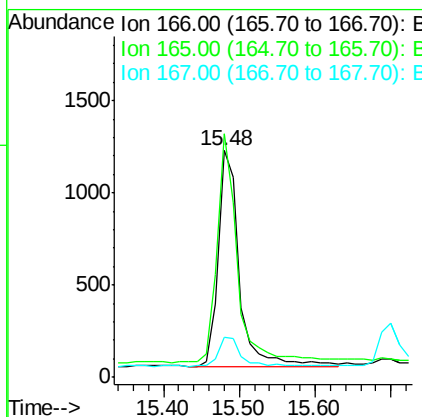
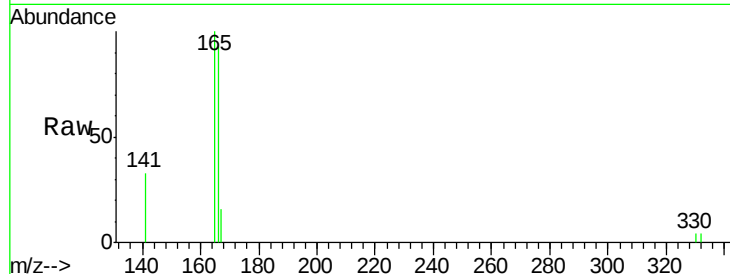
#15
Fluorene
 Concen: 0.05 ng
 RT: 15.48 min Scan# 903
 Delta R.T. -0.01 min
 Lab File: BE091485.D
 Acq: 18 Mar 2016 15:17

Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-W

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.6	79.2	118.8
167	14.4	10.8	16.2

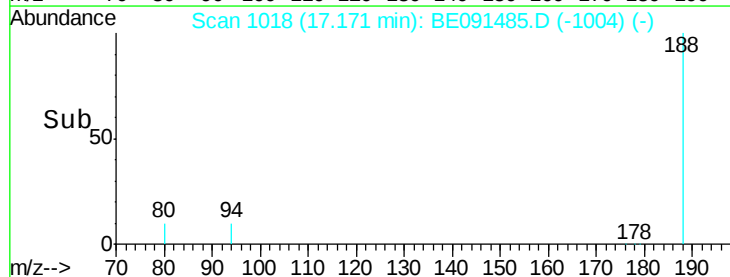
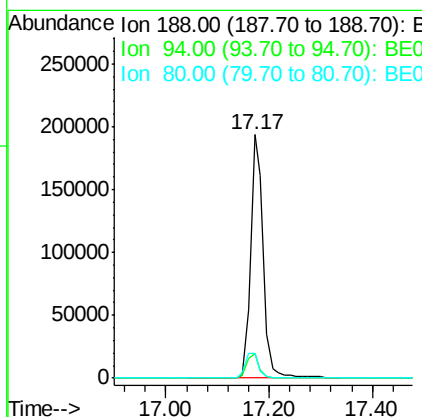
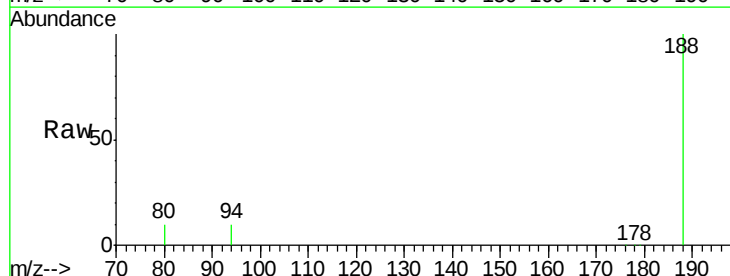
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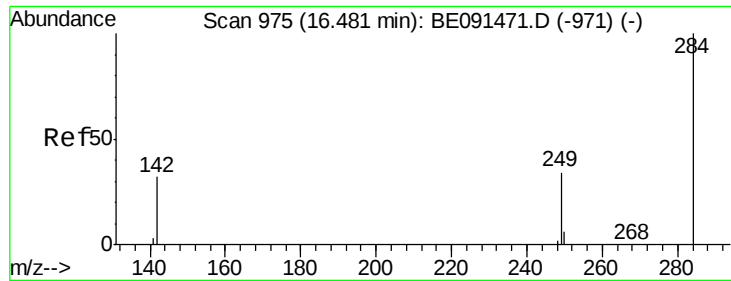
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#16
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 17.17 min Scan# 1018
 Delta R.T. -0.01 min
 Lab File: BE091485.D
 Acq: 18 Mar 2016 15:17

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.4	5.4	8.2#
80	10.4	5.0	7.4#





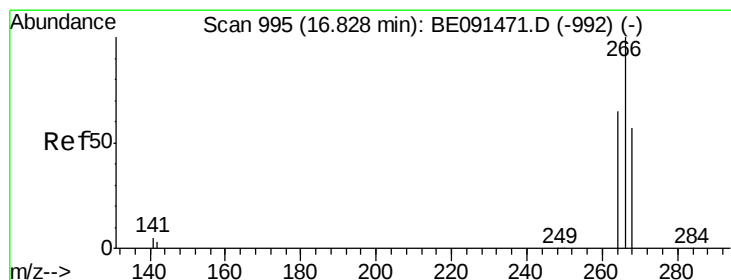
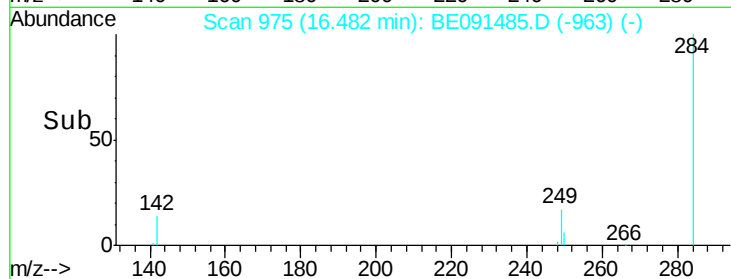
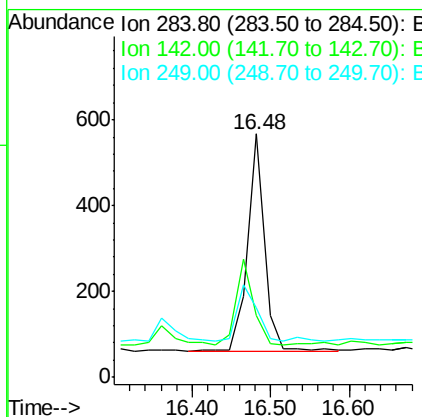
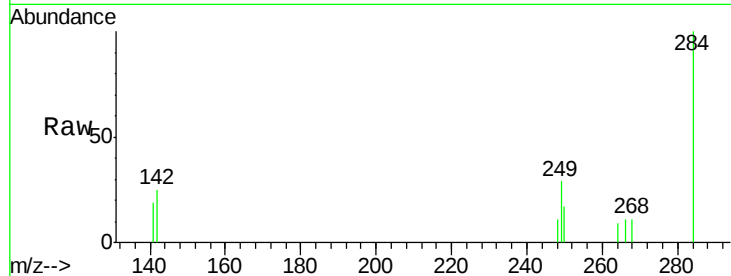
#17
Hexachlorobenzene
Concen: 0.05 ng
RT: 16.48 min Scan# 975
Delta R.T. 0.00 min
Lab File: BE091485.D
Acq: 18 Mar 2016 15:17

Instrument :
BNA_E
ClientSampleId :
MDL-05-W

Tgt Ion	Ratio	Lower	Upper
284	100		
142	40.1	31.0	46.4
249	31.1	25.8	38.8

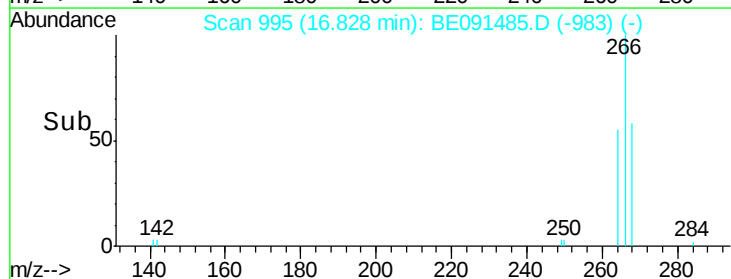
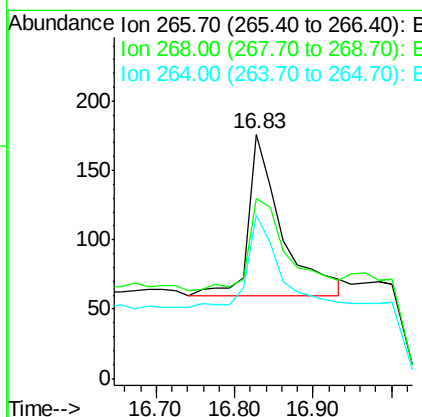
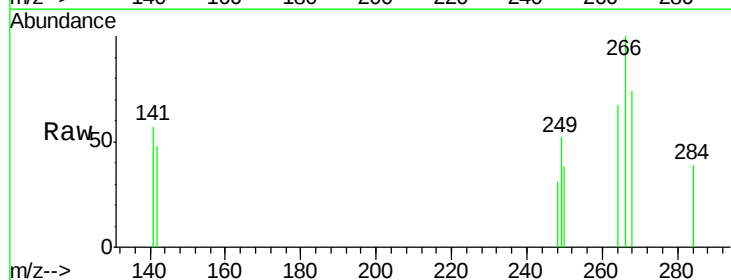
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#18
Pentachlorophenol
Concen: 0.25 ng
RT: 16.83 min Scan# 995
Delta R.T. 0.00 min
Lab File: BE091485.D
Acq: 18 Mar 2016 15:17

Tgt Ion	Ratio	Lower	Upper
266	100		
268	73.9	48.2	72.2#
264	67.0	52.1	78.1





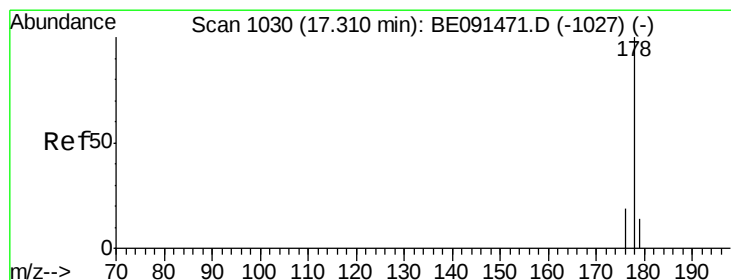
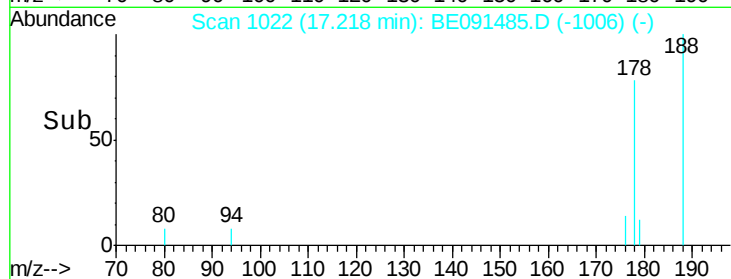
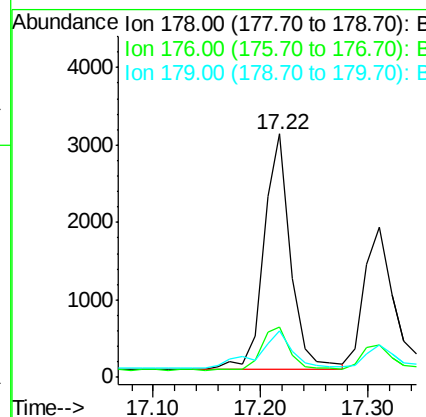
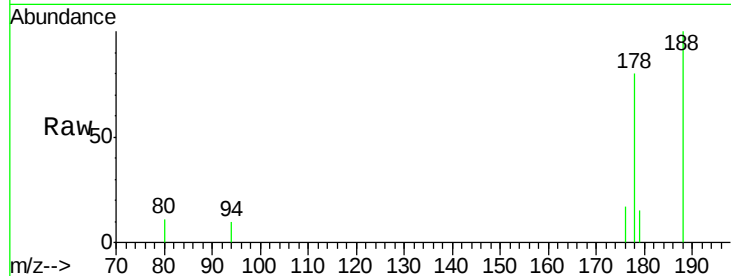
#19
Phenanthrene
Concen: 0.06 ng
RT: 17.22 min Scan# 1022
Delta R.T. 0.00 min
Lab File: BE091485.D
Acq: 18 Mar 2016 15:17

Instrument :
BNA_E
ClientSampleId :
MDL-05-W

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.5	23.3
179	19.7	13.1	19.7

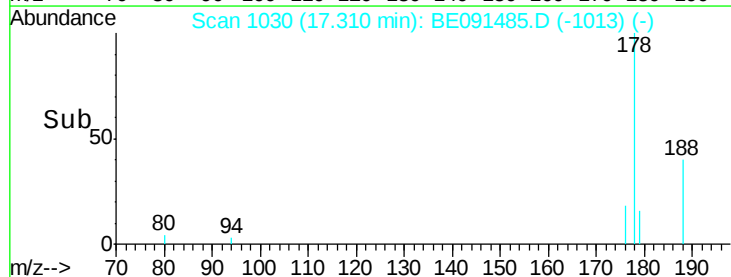
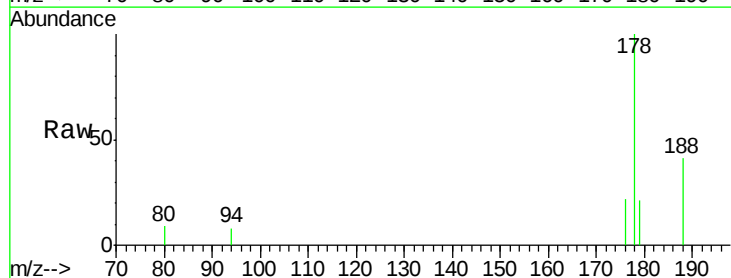
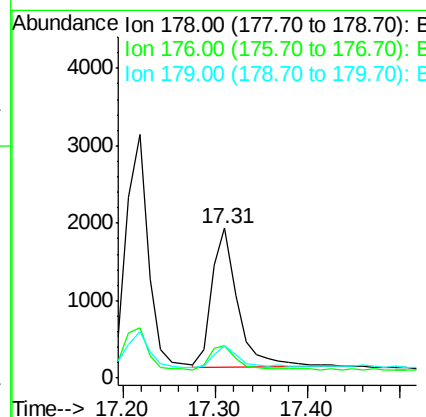
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#20
Anthracene
Concen: 0.04 ng
RT: 17.31 min Scan# 1030
Delta R.T. 0.00 min
Lab File: BE091485.D
Acq: 18 Mar 2016 15:17

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.0	14.9	22.3
179	14.6	12.2	18.4





#21

Fluoranthene

Concen: 0.05 ng

RT: 19.22 min Scan# 1152

Delta R.T. -0.00 min

Lab File: BE091485.D

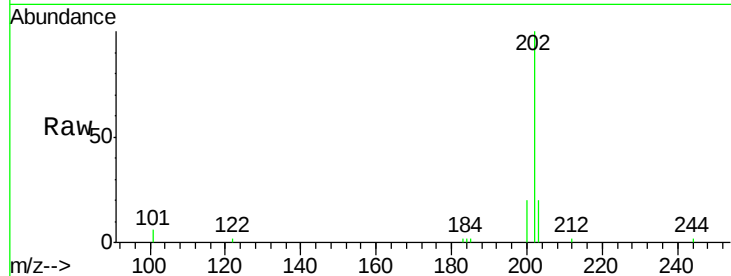
Acq: 18 Mar 2016 15:17

Instrument :

BNA_E

ClientSampleId :

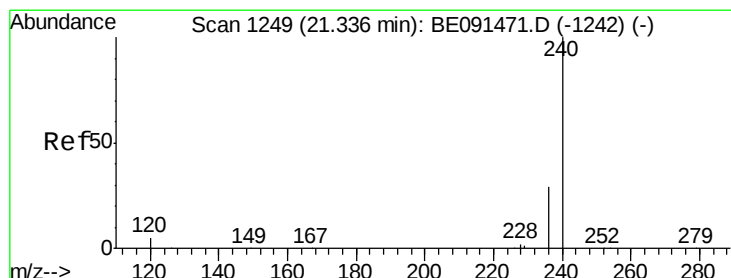
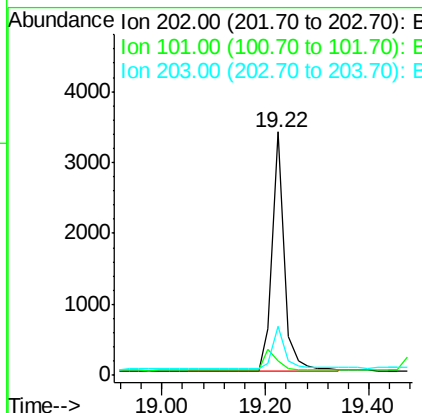
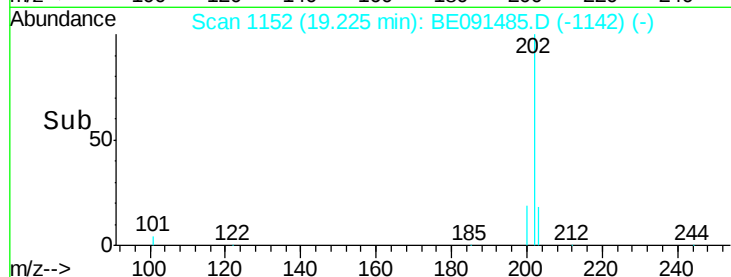
MDL-05-W



Tgt	Ion	Ratio	Lower	Upper
202	100			
101	11.0	8.3	12.5	
203	18.6	13.9	20.9	

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#22

Chrysene-d12

Concen: 5.00 ng

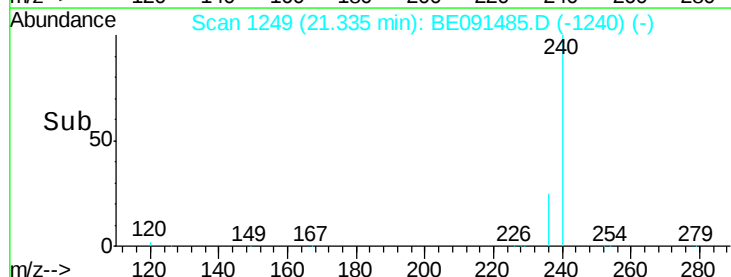
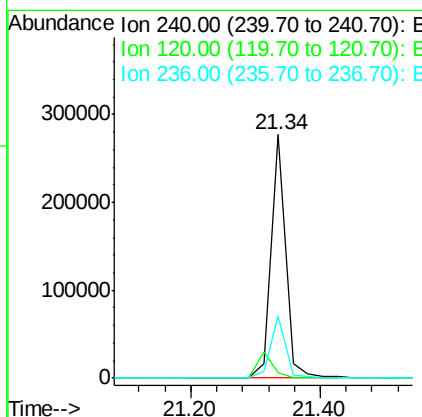
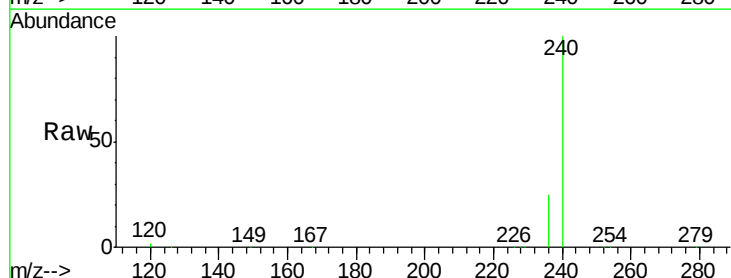
RT: 21.34 min Scan# 1249

Delta R.T. -0.00 min

Lab File: BE091485.D

Acq: 18 Mar 2016 15:17

Tgt	Ion	Ratio	Lower	Upper
240	100			
120	2.3	4.0	6.0#	
236	25.4	23.0	34.4	





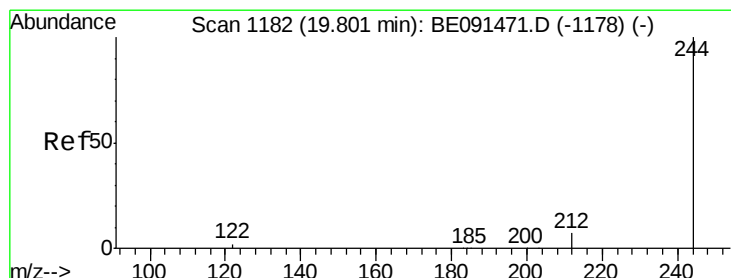
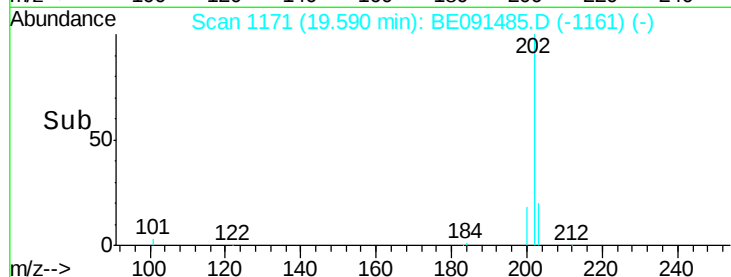
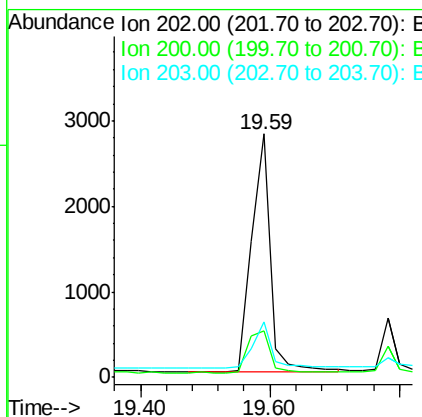
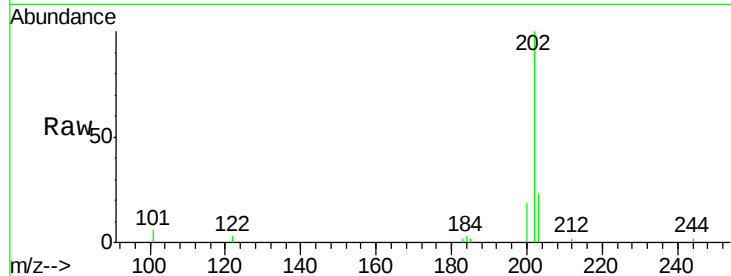
#23
Pyrene
Concen: 0.05 ng
RT: 19.59 min Scan# 1171
Delta R.T. -0.00 min
Lab File: BE091485.D
Acq: 18 Mar 2016 15:17

Instrument :
BNA_E
ClientSampleId :
MDL-05-W

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	21.5	16.4	24.6
203	20.4	14.6	21.8

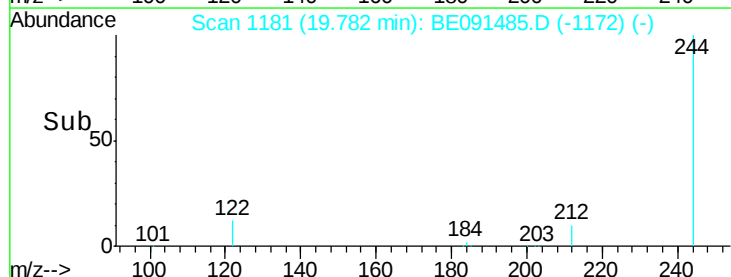
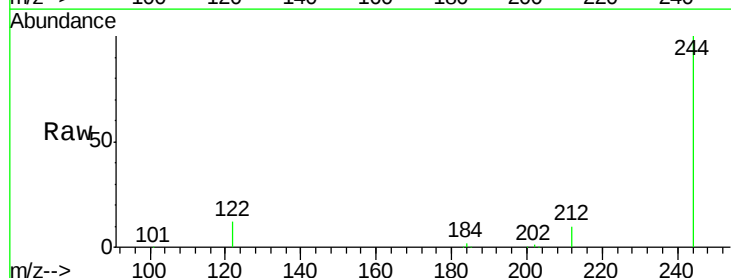
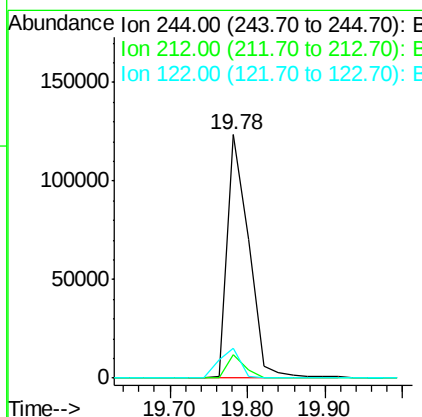
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#24
Terphenyl-d14
Concen: 4.49 ng
RT: 19.78 min Scan# 1181
Delta R.T. -0.02 min
Lab File: BE091485.D
Acq: 18 Mar 2016 15:17

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	9.7	5.8	8.8#
122	12.3	1.8	2.8#





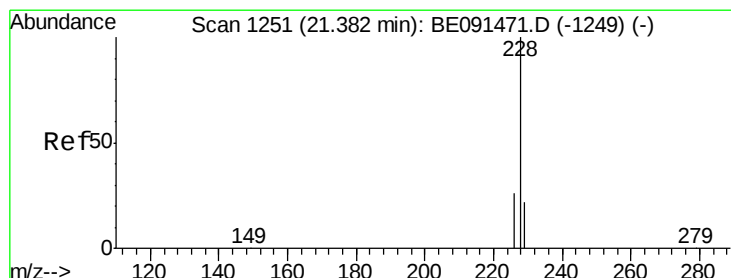
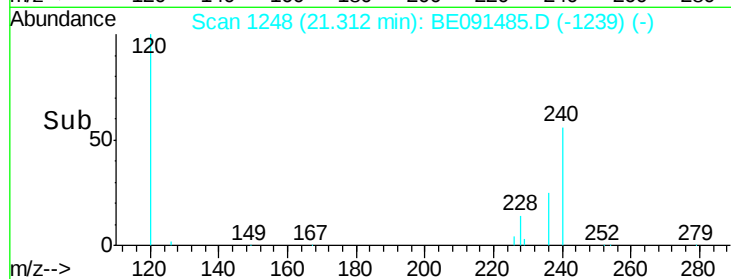
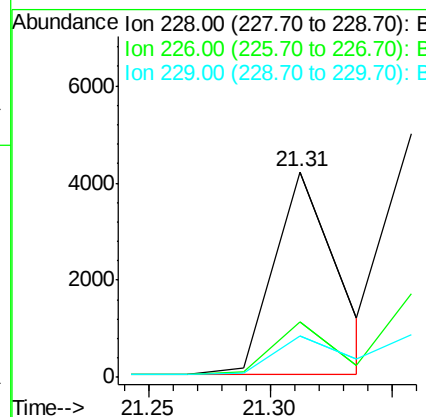
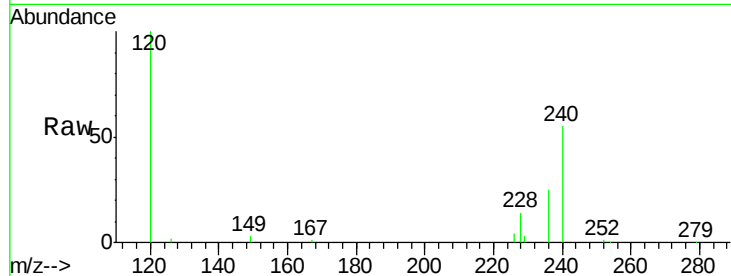
#25
Benzo(a)anthracene
Concen: 0.06 ng m
RT: 21.31 min Scan# 1248
Delta R.T. -0.00 min
Lab File: BE091485.D
Acq: 18 Mar 2016 15:17

Instrument :
BNA_E
ClientSampleId :
MDL-05-W

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.2	24.0	36.0
229	20.4	13.8	20.6

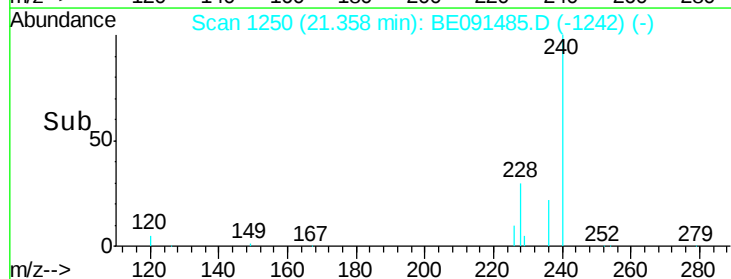
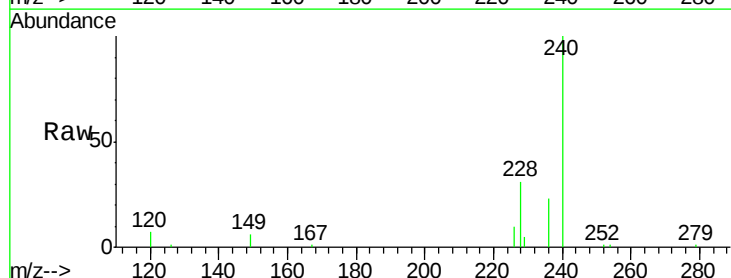
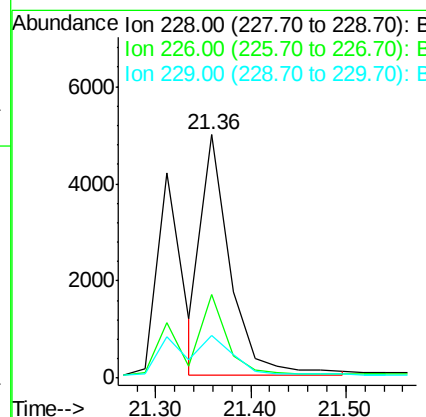
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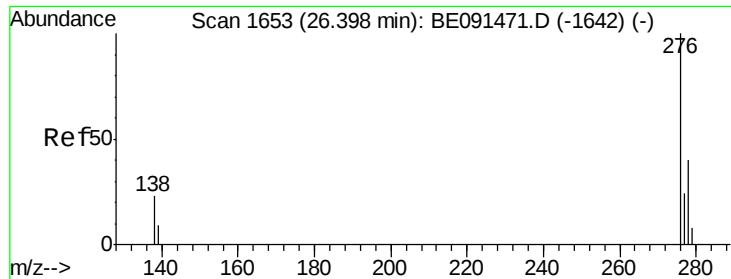
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#26
Chrysene
Concen: 0.09 ng m
RT: 21.36 min Scan# 1250
Delta R.T. -0.02 min
Lab File: BE091485.D
Acq: 18 Mar 2016 15:17

Tgt Ion	Ratio	Lower	Upper
228	100		
226	34.2	18.9	28.3#
229	17.5	19.1	28.7#





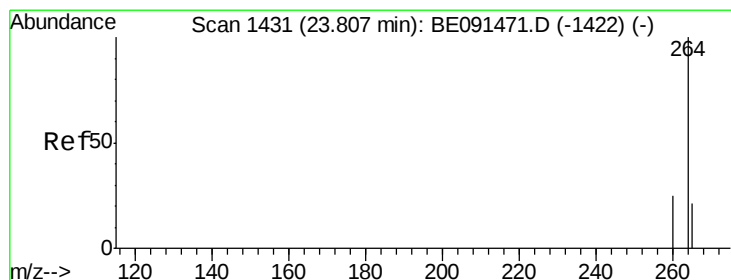
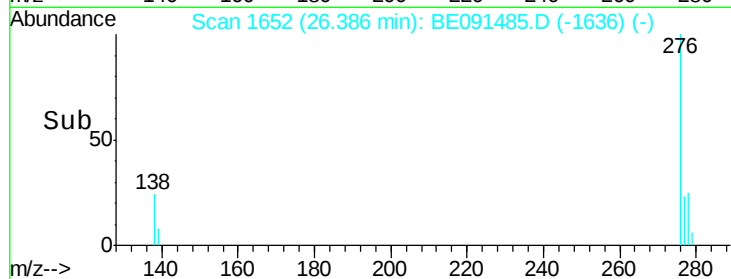
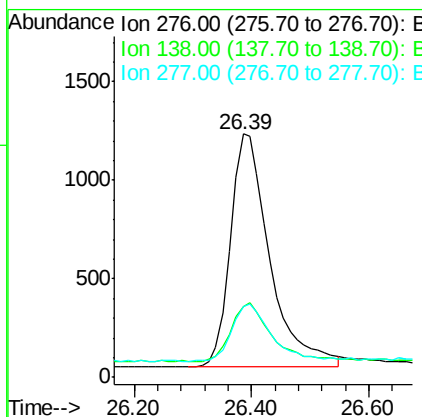
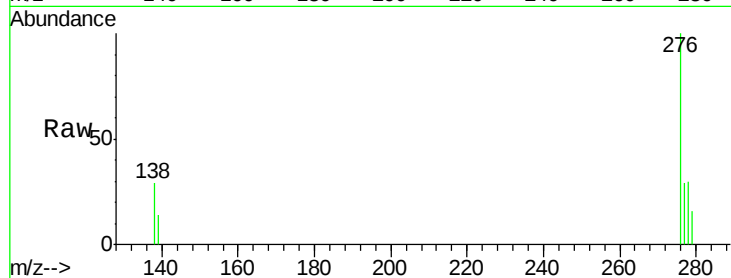
#27
Indeno(1,2,3-cd)pyrene
Concen: 0.04 ng
RT: 26.39 min Scan# 1652
Delta R.T. -0.01 min
Lab File: BE091485.D
Acq: 18 Mar 2016 15:17

Instrument :
BNA_E
ClientSampleId :
MDL-05-W

Tgt Ion	Ratio	Lower	Upper
276	100		
138	25.5	20.2	30.4
277	24.9	19.8	29.8

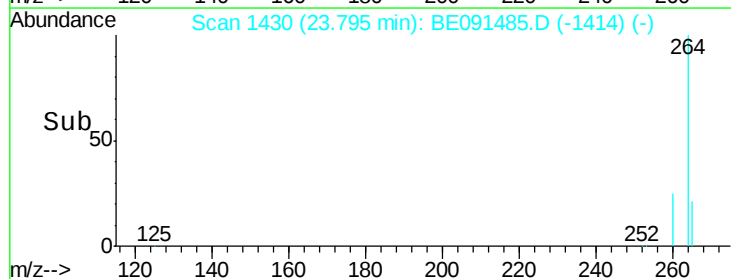
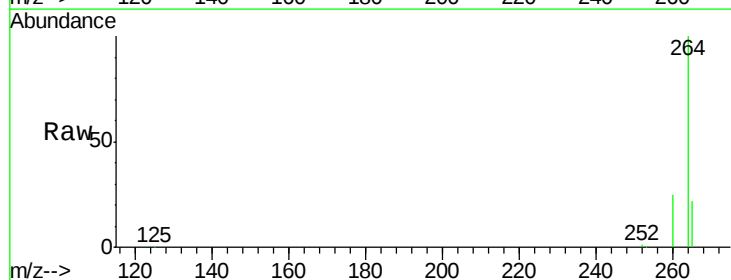
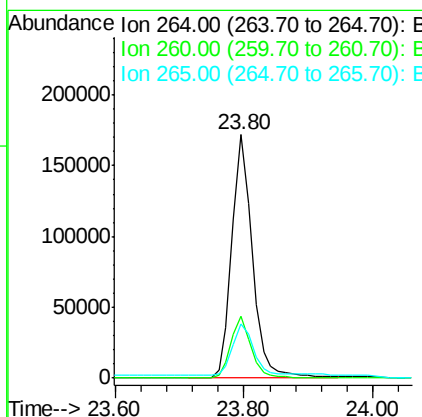
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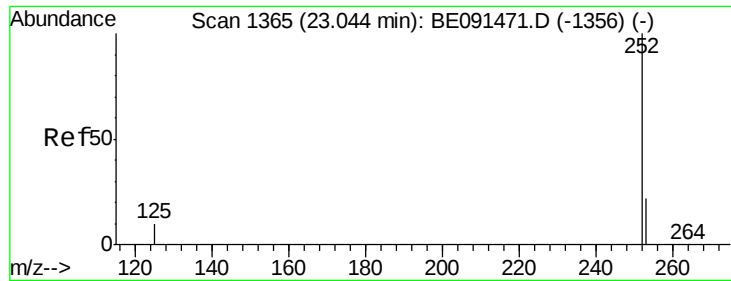
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#28
Perylene-d12
Concen: 5.00 ng
RT: 23.80 min Scan# 1430
Delta R.T. -0.01 min
Lab File: BE091485.D
Acq: 18 Mar 2016 15:17

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.3	20.1	30.1
265	22.3	18.3	27.5





#29

Benzo(b)fluoranthene

Concen: 0.07 ng

RT: 23.04 min Scan# 1365

Delta R.T. -0.00 min

Lab File: BE091485.D

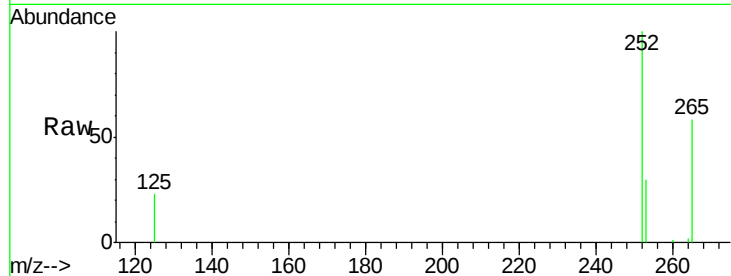
Acq: 18 Mar 2016 15:17

Instrument :

BNA_E

ClientSampleId :

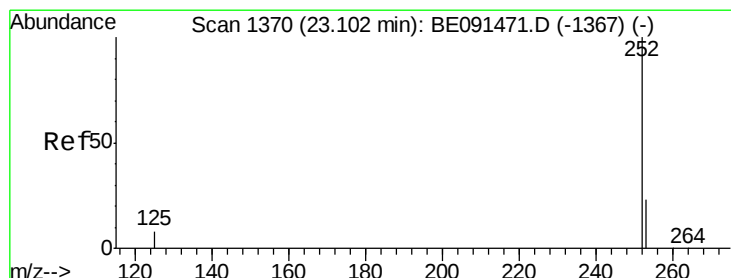
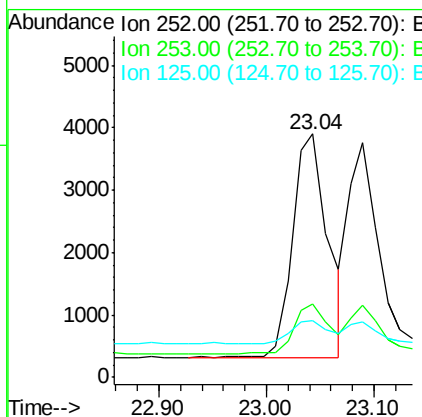
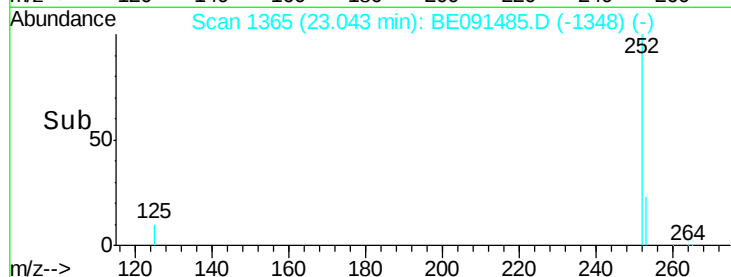
MDL-05-W



Tgt Ion	Ratio	Lower	Upper
252	100		
253	30.3	18.7	28.1#
125	23.4	9.8	14.6#

Manual Integrations
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#30

Benzo(k)fluoranthene

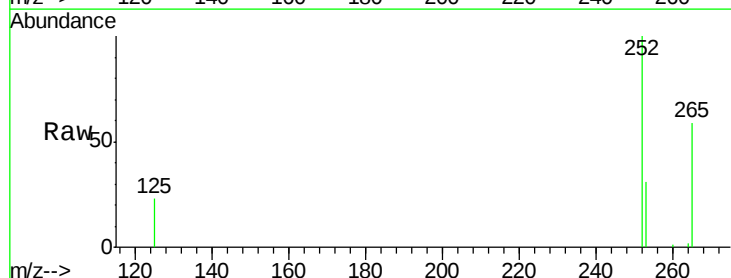
Concen: 0.06 ng

RT: 23.09 min Scan# 1369

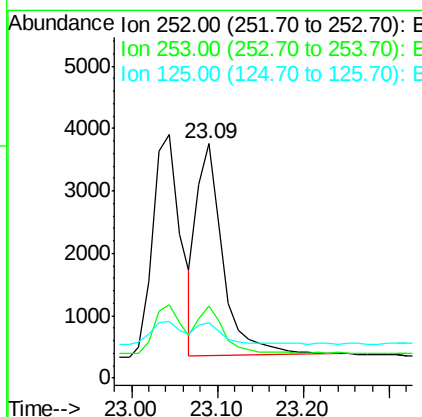
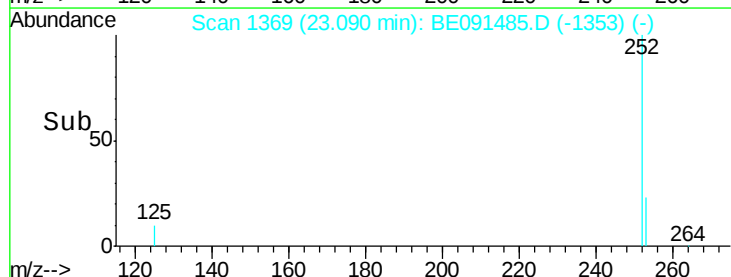
Delta R.T. -0.01 min

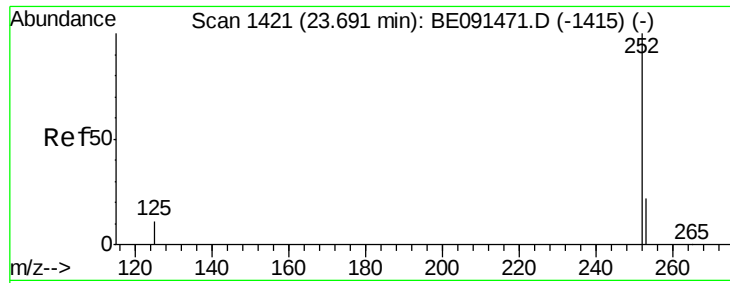
Lab File: BE091485.D

Acq: 18 Mar 2016 15:17



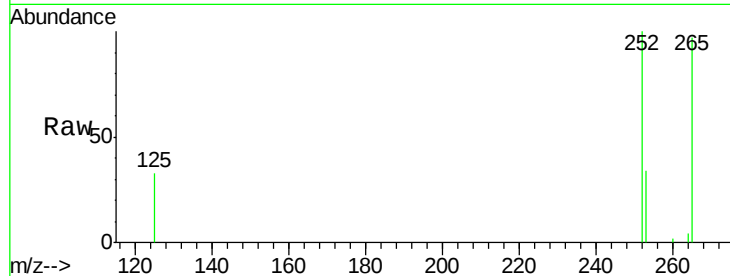
Tgt Ion	Ratio	Lower	Upper
252	100		
253	30.8	20.2	30.4#
125	23.5	9.4	14.2#





#31
Benzo(a)pyrene
Concen: 0.05 ng
RT: 23.68 min Scan# 1420
Delta R.T. -0.01 min
Lab File: BE091485.D
Acq: 18 Mar 2016 15:17

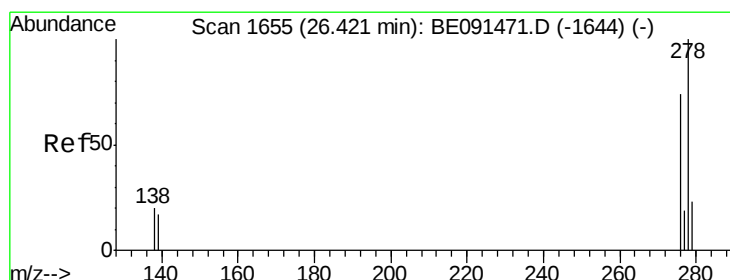
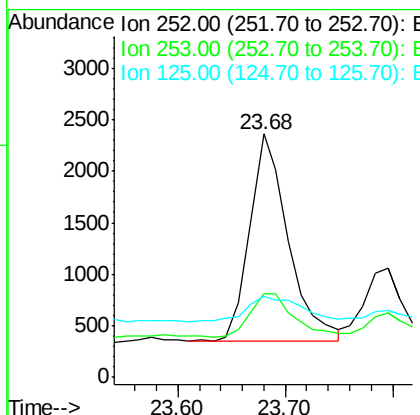
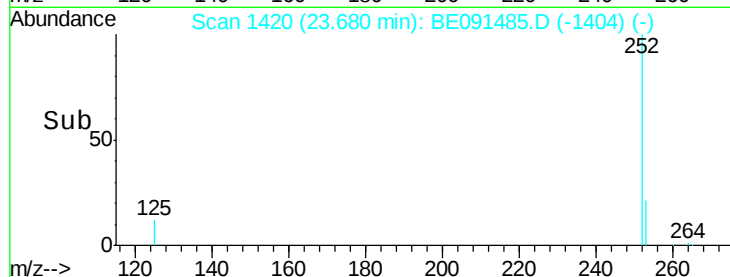
Instrument :
BNA_E
ClientSampleId :
MDL-05-W



Tgt Ion	Ratio	Lower	Upper
252	100		
253	34.3	19.4	29.0#
125	33.4	11.4	17.2#

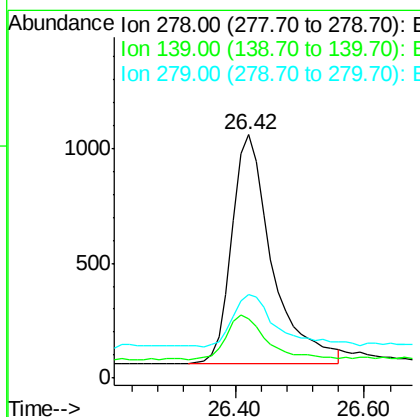
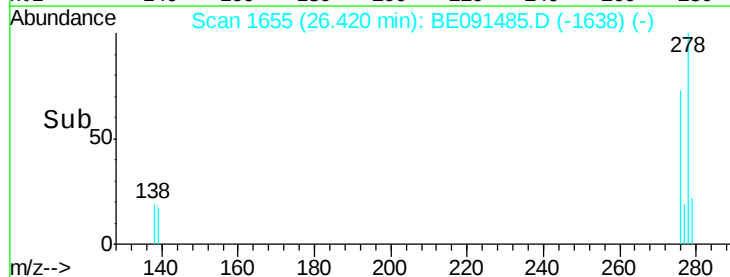
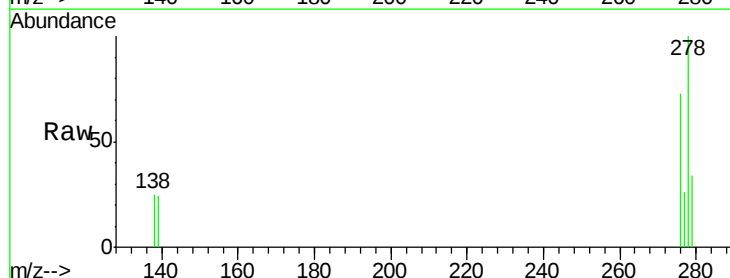
Manual Integrations
APPROVED

UMANGI
3/22/2016 10:48:38 AM



#32
Dibenzo(a,h)anthracene
Concen: 0.04 ng
RT: 26.42 min Scan# 1655
Delta R.T. -0.00 min
Lab File: BE091485.D
Acq: 18 Mar 2016 15:17

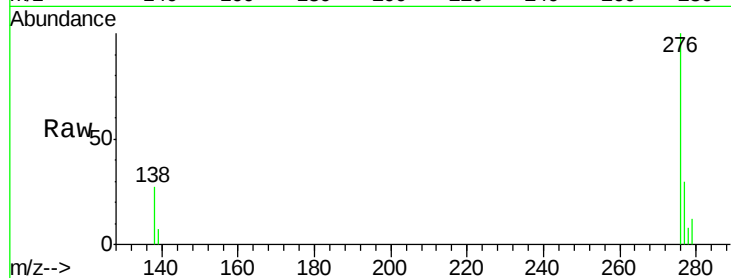
Tgt Ion	Ratio	Lower	Upper
278	100		
139	24.4	14.2	21.4#
279	34.4	19.6	29.4#





#33
 Benzo(g,h,i)perylene
 Concen: 0.05 ng
 RT: 27.18 min Scan# 1721
 Delta R.T. -0.00 min
 Lab File: BE091485.D
 Acq: 18 Mar 2016 15:17

Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-W



Tgt	Ion	276	Resp:	5107
Ion	Ratio	Lower	Upper	
276	100			
277	29.5	19.4	29.2#	
138	26.5	18.2	27.4	

Manual Integrations
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