

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032116\
 Data File : BE091500.D
 Acq On : 21 Mar 2016 15:41
 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 11:28:25 AM

Quant Time: Mar 21 16:55:32 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	7.82	152	55523	5.00	ng	-0.02
6) Naphthalene-d8	10.61	136	238017	5.00	ng	0.00
10) Acenaphthene-d10	14.43	164	132157	5.00	ng	-0.01
16) Phenanthrene-d10	17.17	188	342707	5.00	ng	-0.01
22) Chrysene-d12	21.34	240	451261	5.00	ng	0.00
28) Perylene-d12	23.80	264	400645	5.00	ng	-0.01

System Monitoring Compounds

4) 2-Fluorophenol	5.43	112	89028	6.98	ng	0.00
5) Phenol-d6	6.99	99	118386	7.11	ng	0.00
7) Nitrobenzene-d5	8.97	82	41916	3.29	ng	-0.01
11) 2,4,6-Tribromophenol	15.92	330	27065	5.63	ng	-0.01
12) 2-Fluorobiphenyl	13.07	172	140610	4.23	ng	0.00
24) Terphenyl-d14	19.78	244	229170	4.22	ng	-0.02

Target Compounds

						Qvalue
2) 1,4-Dioxane	3.37	88	596	0.09	ng	# 77
3) n-Nitrosodimethylamine	3.70	42	354	0.04	ng	# 81
8) Naphthalene	10.65	128	2908	0.05	ng	# 95
9) 2-Methylnaphthalene	12.26	142	1704	0.05	ng	# 84
13) Acenaphthylene	14.15	152	1998m	0.16	ng	
14) Acenaphthene	14.50	154	1843	0.05	ng	91
15) Fluorene	15.48	166	2301	0.04	ng	99
17) Hexachlorobenzene	16.48	284	709	0.05	ng	92
18) Pentachlorophenol	16.83	266	332	0.24	ng	# 83
19) Phenanthrene	17.22	178	5236m	0.05	ng	
20) Anthracene	17.31	178	3643	0.04	ng	97
21) Fluoranthene	19.22	202	4676	0.04	ng	95
23) Pyrene	19.59	202	5045	0.04	ng	98
25) Benzo(a)anthracene	21.31	228	7307m	0.06	ng	
26) Chrysene	21.36	228	7882m	0.06	ng	
27) Indeno(1,2,3-cd)pyrene	26.40	276	5521	0.04	ng	98
29) Benzo(b)fluoranthene	23.03	252	7853	0.06	ng	# 86
30) Benzo(k)fluoranthene	23.09	252	6644	0.05	ng	# 86
31) Benzo(a)pyrene	23.68	252	5026	0.05	ng	# 74
32) Dibenzo(a,h)anthracene	26.42	278	4411	0.04	ng	# 85
33) Benzo(g,h,i)perylene	27.18	276	5013	0.04	ng	# 91

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

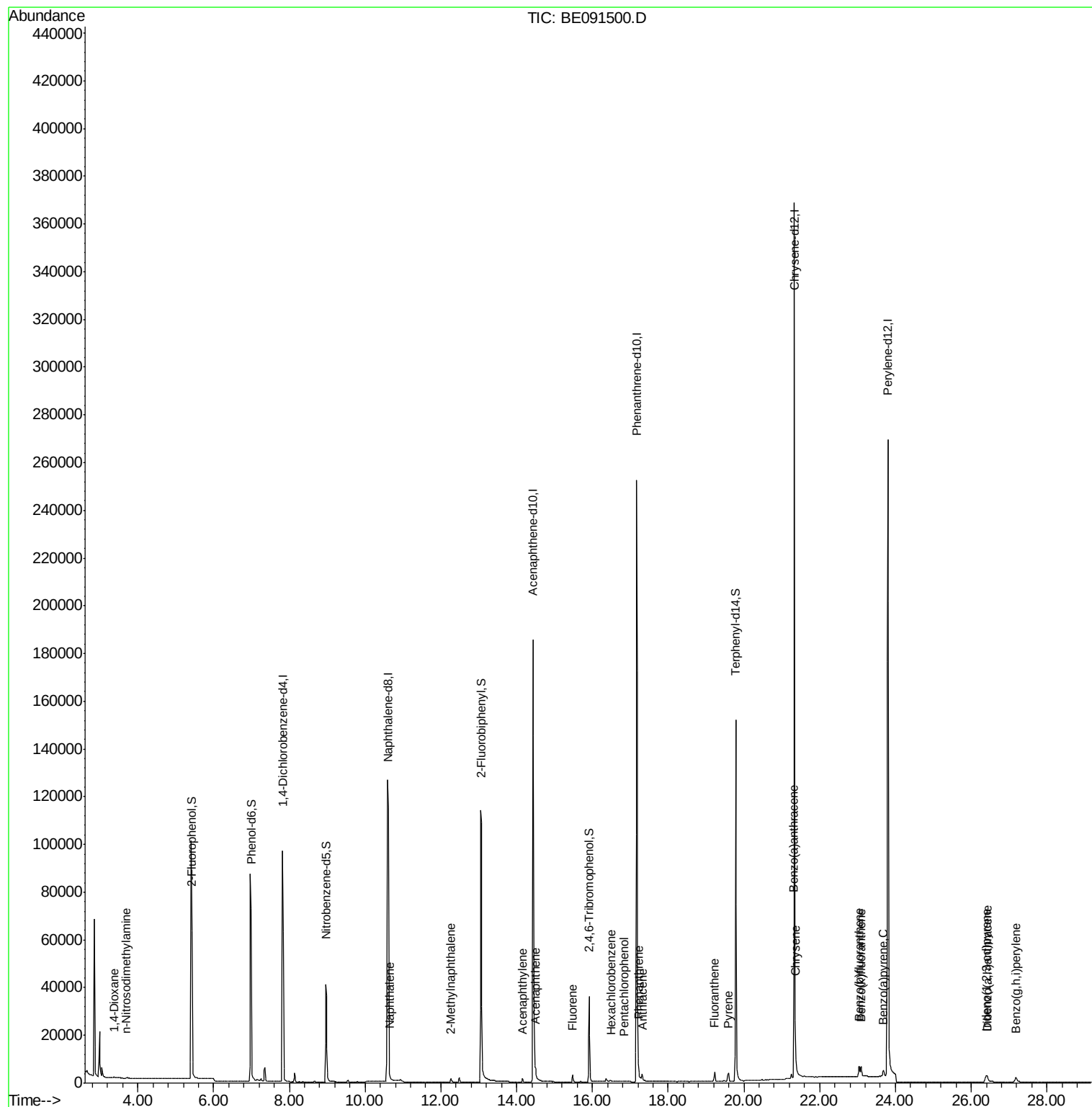
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032116\
Data File : BE091500.D
Acq On : 21 Mar 2016 15:41
Operator : UM/SJ
Sample : MDL-05-W
Misc : 0.08PPM
ALS Vial : 15 Sample Multiplier: 1

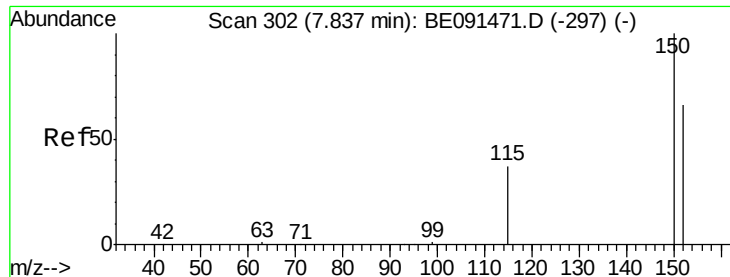
Instrument :
BNA_E
ClientSampleId :
MDL-05-W

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Quant Time: Mar 21 16:55:32 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

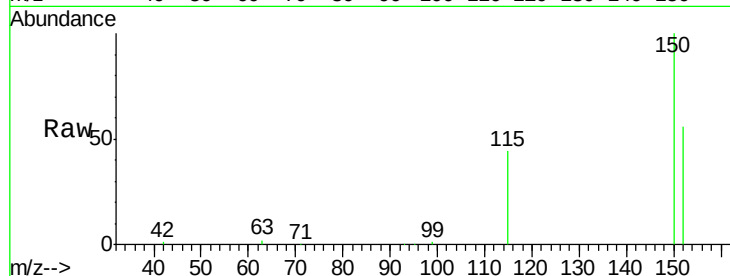




#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.82 min Scan# 301
Delta R.T. -0.02 min
Lab File: BE091500.D
Acq: 21 Mar 2016 15:41

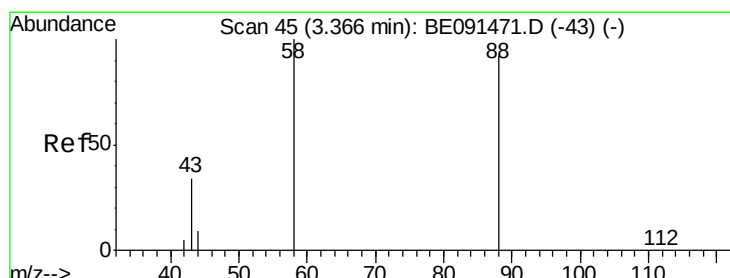
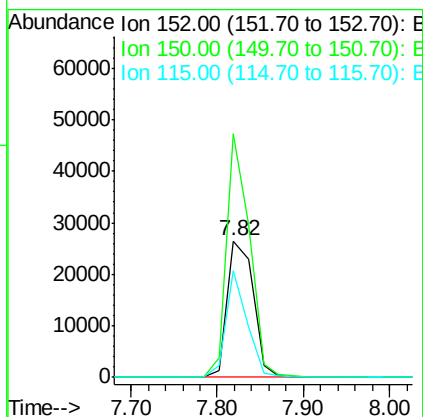
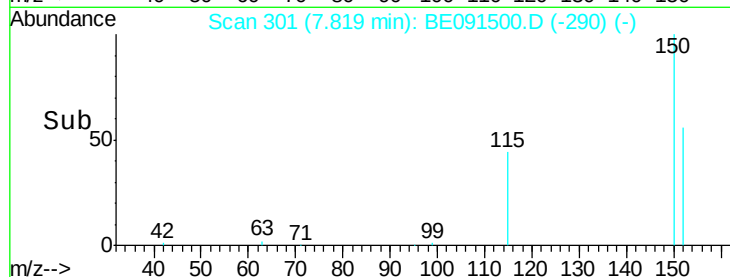
Instrument :
BNA_E
ClientSampleId :
MDL-05-W



Tgt Ion: 152 Resp: 55523
Ion Ratio Lower Upper
152 100
150 178.6 122.2 183.2
115 78.5 45.9 68.9#

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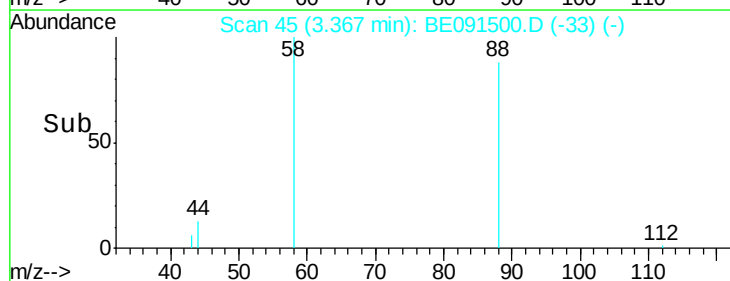
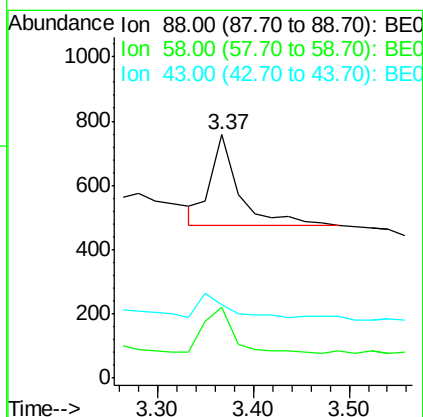
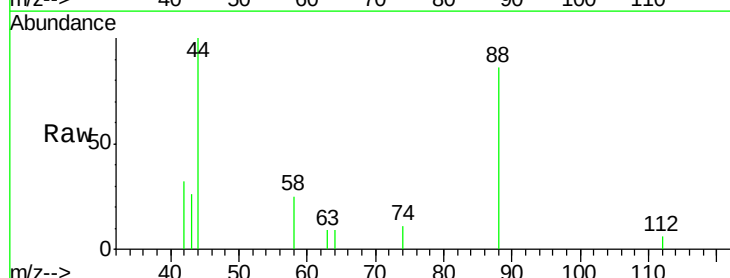
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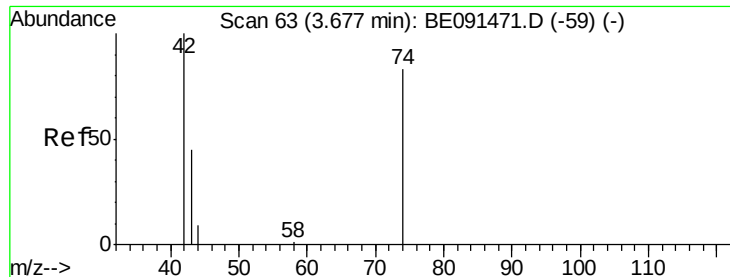


#2

1,4-Dioxane
Concen: 0.09 ng
RT: 3.37 min Scan# 45
Delta R.T. 0.00 min
Lab File: BE091500.D
Acq: 21 Mar 2016 15:41

Tgt Ion: 88 Resp: 596
Ion Ratio Lower Upper
88 100
58 52.2 61.0 91.6#
43 25.5 25.4 38.2





#3

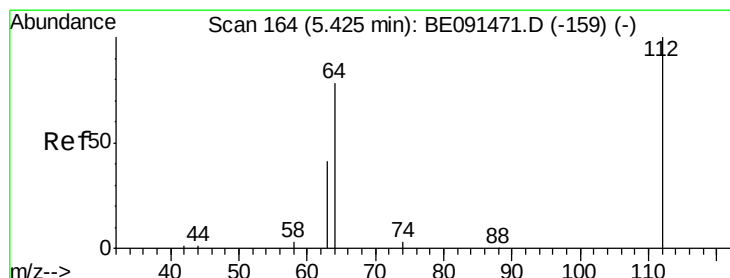
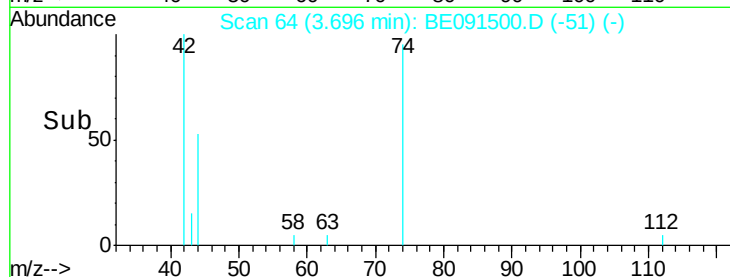
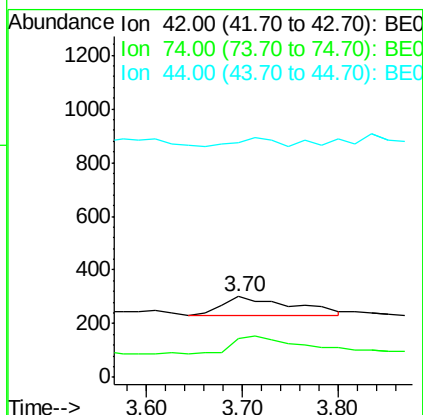
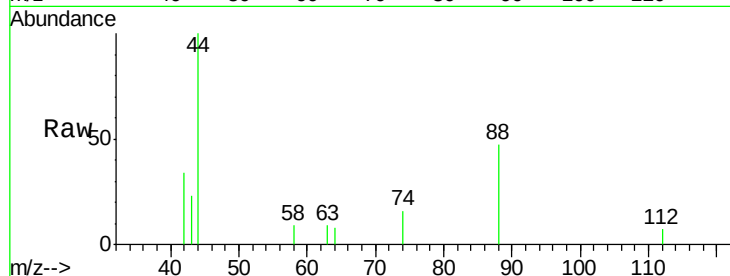
n-Nitrosodimethylamine
Concen: 0.04 ng
RT: 3.70 min Scan# 64
Delta R.T. 0.02 min
Lab File: BE091500.D
Acq: 21 Mar 2016 15:41

Instrument :
BNA_E
ClientSampleId :
MDL-05-W

Tgt Ion: 42 Resp: 354
Ion Ratio Lower Upper
42 100
74 88.1 84.3 126.5
44 24.6 6.7 10.1#

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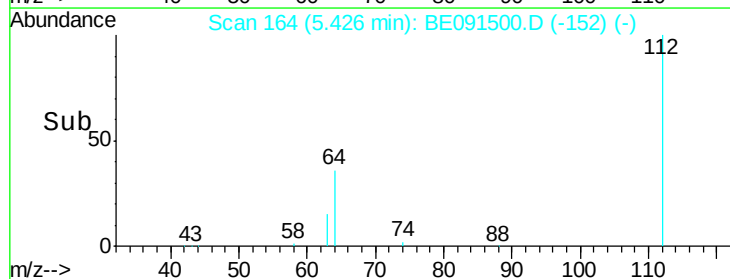
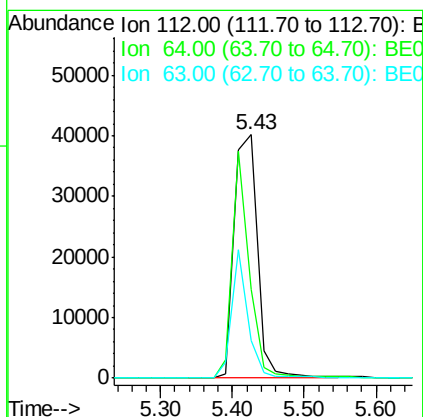
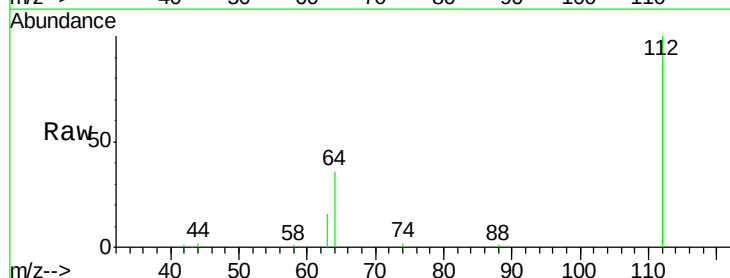
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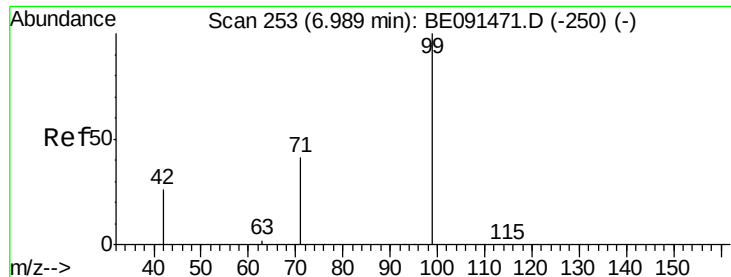


#4

2-Fluorophenol
Concen: 6.98 ng
RT: 5.43 min Scan# 164
Delta R.T. 0.00 min
Lab File: BE091500.D
Acq: 21 Mar 2016 15:41

Tgt Ion: 112 Resp: 89028
Ion Ratio Lower Upper
112 100
64 67.6 53.3 79.9
63 36.8 29.8 44.8





#5

Phenol-d6

Concen: 7.11 ng

RT: 6.99 min Scan# 253

Delta R.T. -0.00 min

Lab File: BE091500.D

Acq: 21 Mar 2016 15:41

Instrument :

BNA_E

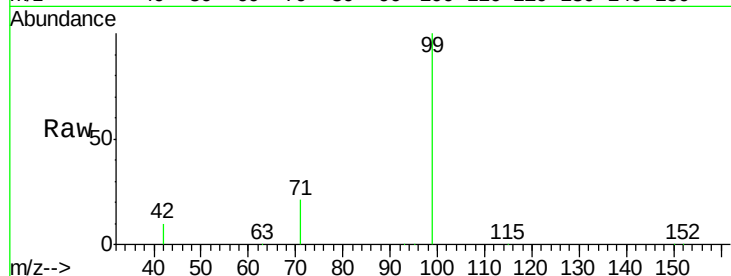
ClientSampleId :

MDL-05-W

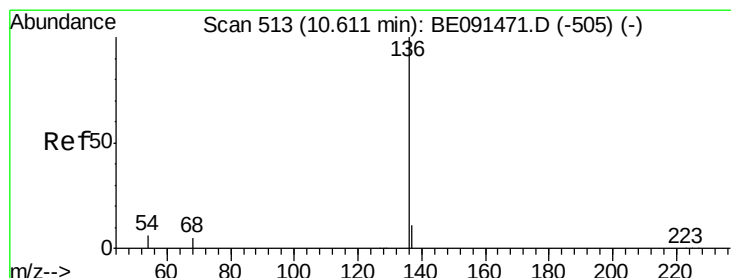
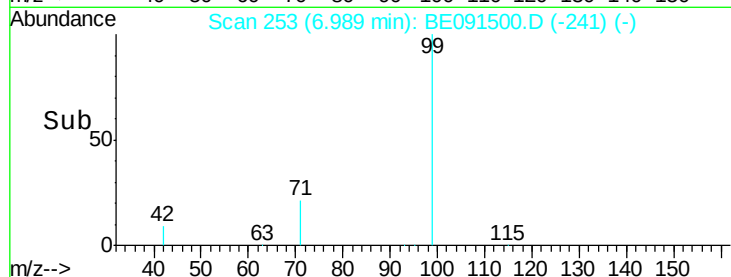
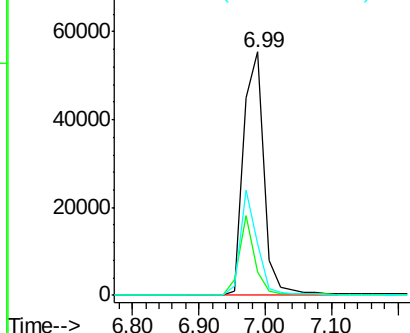
Tgt Ion:	99	Resp:	118386
Ion Ratio	Lower	Upper	
99	100		
42	24.9	20.6	30.8
71	35.7	29.0	43.4

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Abundance Ion 99.00 (98.70 to 99.70): BE0
Ion 42.00 (41.70 to 42.70): BE0
Ion 71.00 (70.70 to 71.70): BE0



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.61 min Scan# 513

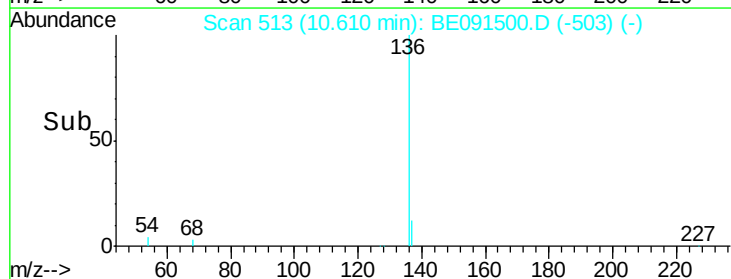
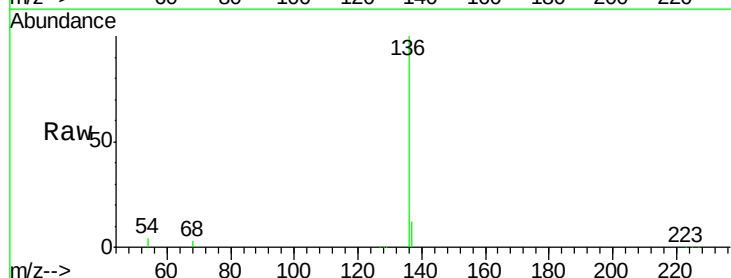
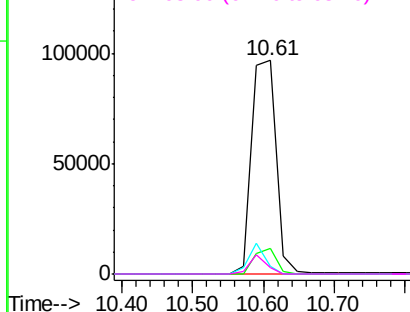
Delta R.T. -0.00 min

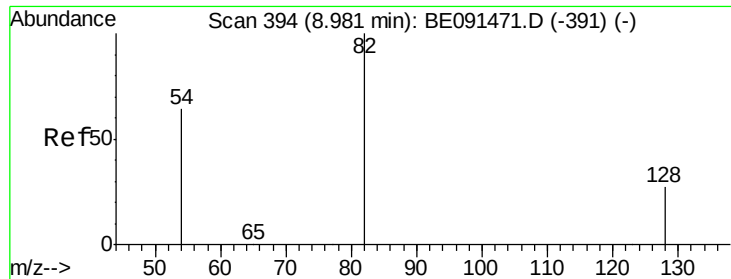
Lab File: BE091500.D

Acq: 21 Mar 2016 15:41

Tgt Ion:	136	Resp:	238017
Ion Ratio	Lower	Upper	
136	100		
137	12.2	8.8	13.2
54	3.7	5.2	7.8#
68	3.1	4.1	6.1#

Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BE0
Ion 68.00 (67.70 to 68.70): BE0





#7

Nitrobenzene-d5

Concen: 3.29 ng

RT: 8.97 min Scan# 393

Delta R.T. -0.01 min

Lab File: BE091500.D

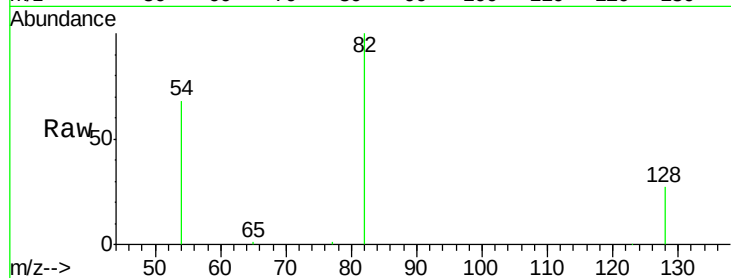
Acq: 21 Mar 2016 15:41

Instrument :

BNA_E

ClientSampleId :

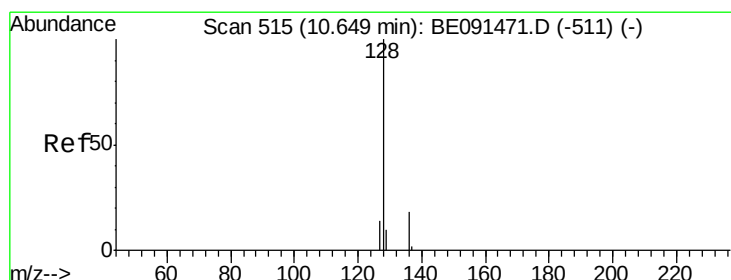
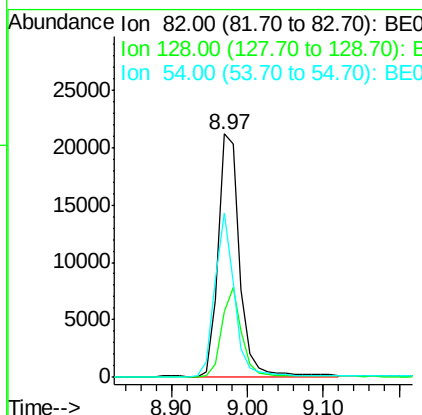
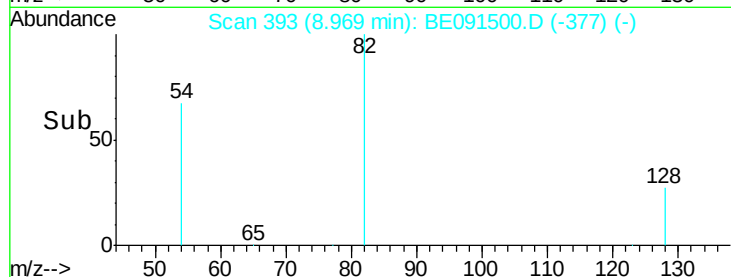
MDL-05-W



Tgt Ion:	82	Resp:	41916
Ion Ratio	Lower	Upper	
82	100		
128	27.0	23.5	35.3
54	67.5	52.4	78.6

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#8

Naphthalene

Concen: 0.05 ng

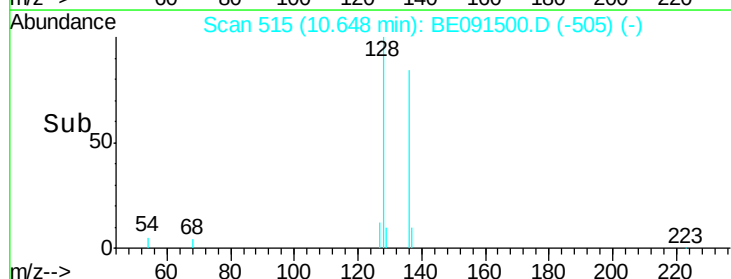
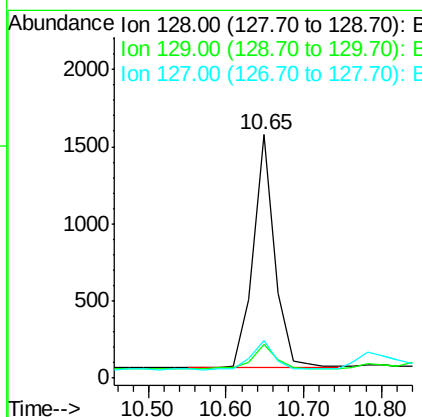
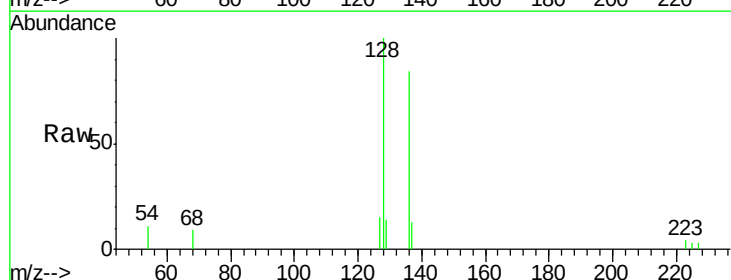
RT: 10.65 min Scan# 515

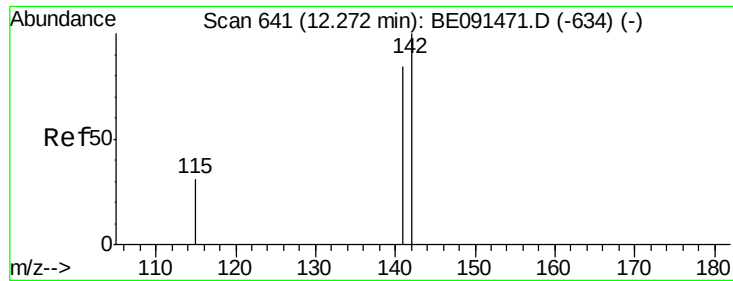
Delta R.T. -0.00 min

Lab File: BE091500.D

Acq: 21 Mar 2016 15:41

Tgt Ion:	128	Resp:	2908
Ion Ratio	Lower	Upper	
128	100		
129	14.0	8.2	12.2#
127	15.2	11.8	17.8





#9

2-Methylnaphthalene

Concen: 0.05 ng

RT: 12.26 min Scan# 640

Delta R.T. -0.01 min

Lab File: BE091500.D

Acq: 21 Mar 2016 15:41

Instrument :

BNA_E

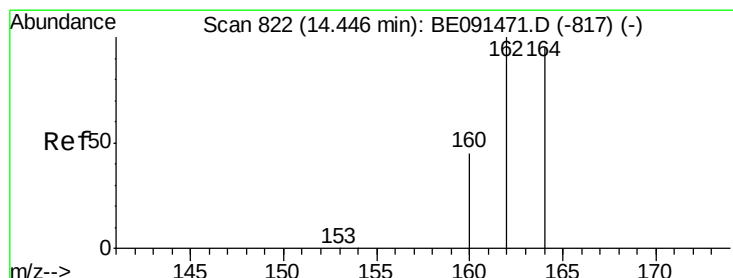
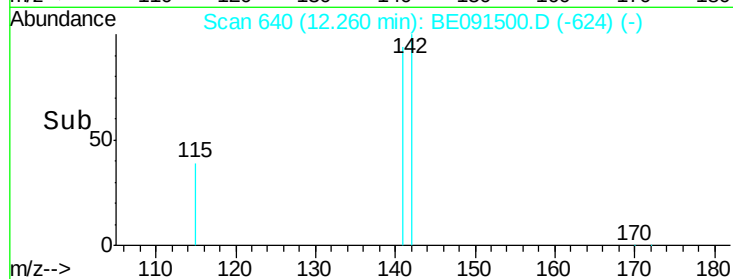
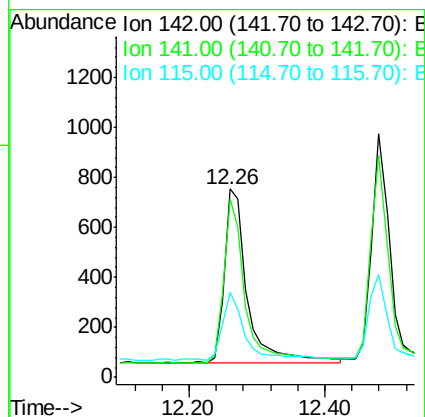
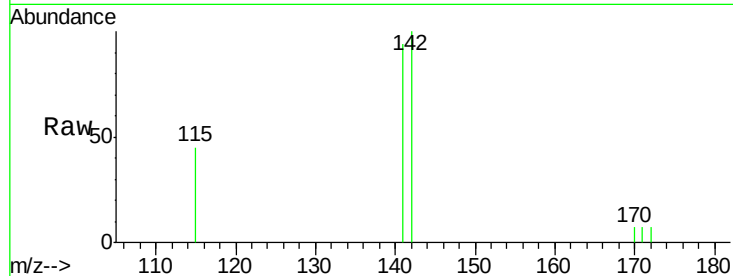
ClientSampleId :

MDL-05-W

Tgt Ion:	142	Resp:	1704
Ion Ratio	Lower	Upper	
142	100		
141	94.4	66.9	100.3
115	45.2	25.1	37.7#

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#10

Acenaphthene-d10

Concen: 5.00 ng

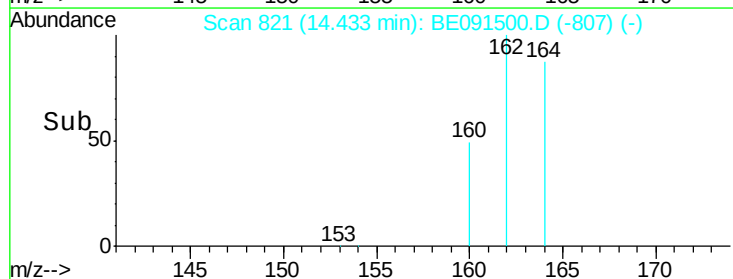
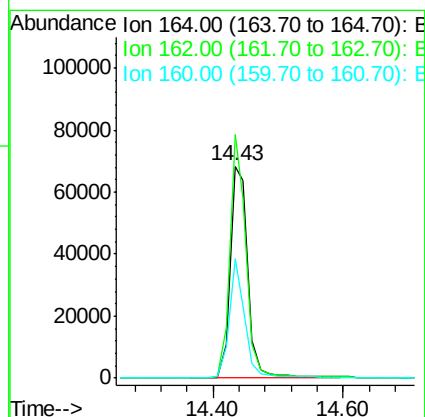
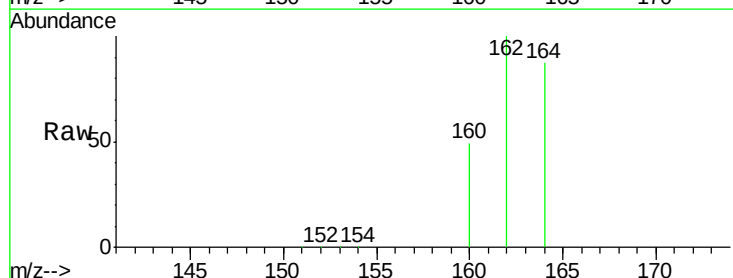
RT: 14.43 min Scan# 821

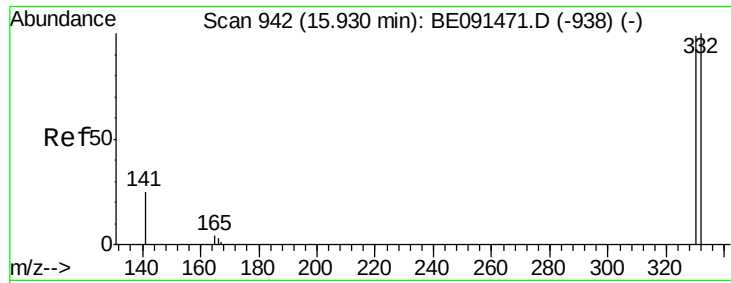
Delta R.T. -0.01 min

Lab File: BE091500.D

Acq: 21 Mar 2016 15:41

Tgt Ion:	164	Resp:	132157
Ion Ratio	Lower	Upper	
164	100		
162	114.9	84.4	126.6
160	56.1	37.7	56.5





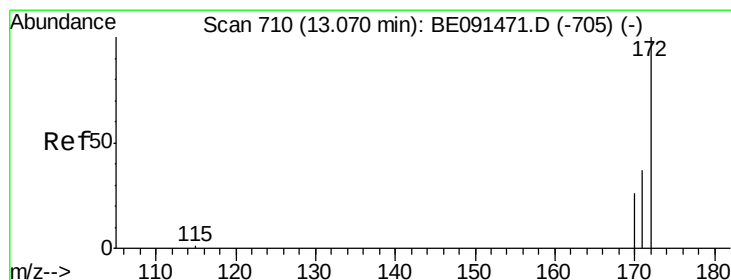
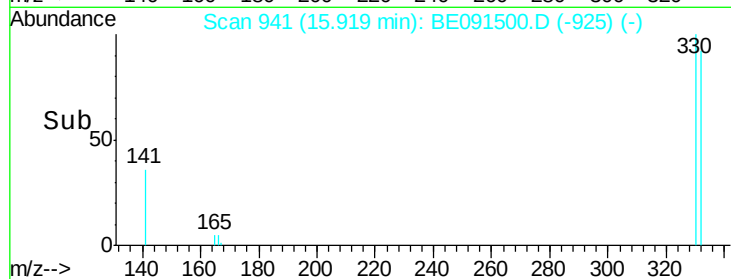
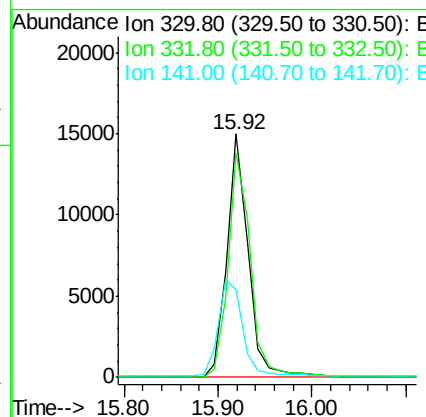
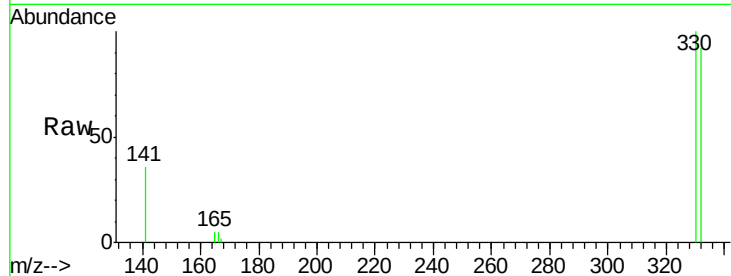
#11
 2,4,6-Tribromophenol
 Concen: 5.63 ng
 RT: 15.92 min Scan# 941
 Delta R.T. -0.01 min
 Lab File: BE091500.D
 Acq: 21 Mar 2016 15:41

Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-W

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	27065		
332	96.5	79.2	118.8	
141	45.0	28.1	42.1#	

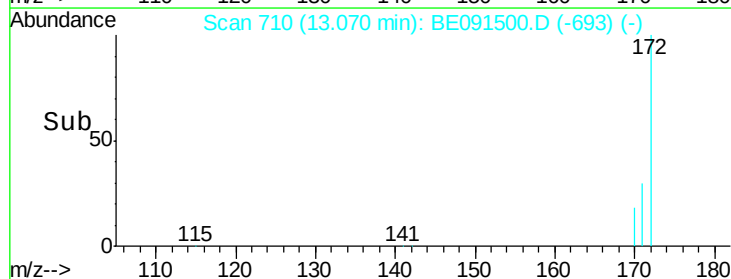
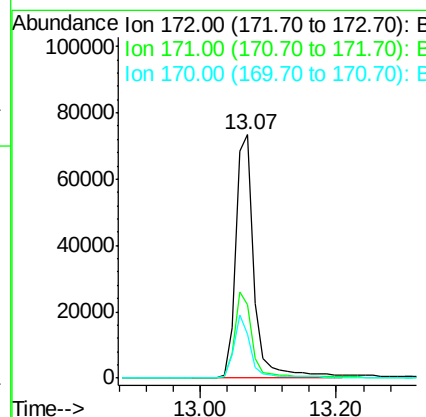
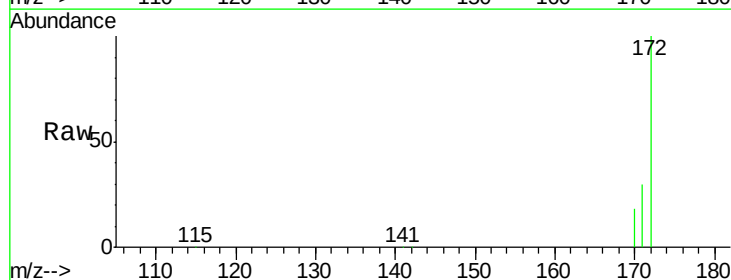
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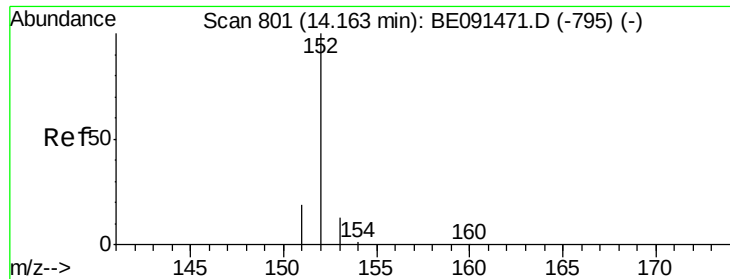
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#12
 2-Fluorobiphenyl
 Concen: 4.23 ng
 RT: 13.07 min Scan# 710
 Delta R.T. -0.00 min
 Lab File: BE091500.D
 Acq: 21 Mar 2016 15:41

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	140610		
171	30.3	29.8	44.8	
170	17.8	21.4	32.2#	





#13

Acenaphthylene

Concen: 0.16 ng m

RT: 14.15 min Scan# 800

Delta R.T. -0.01 min

Lab File: BE091500.D

Acq: 21 Mar 2016 15:41

Instrument :

BNA_E

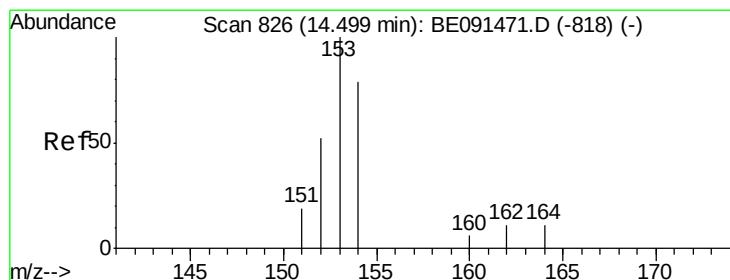
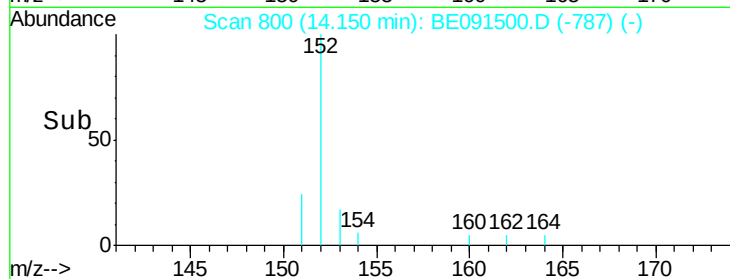
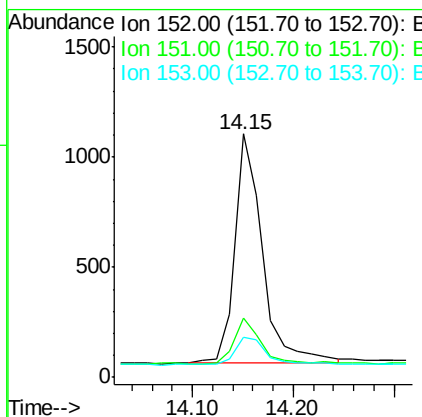
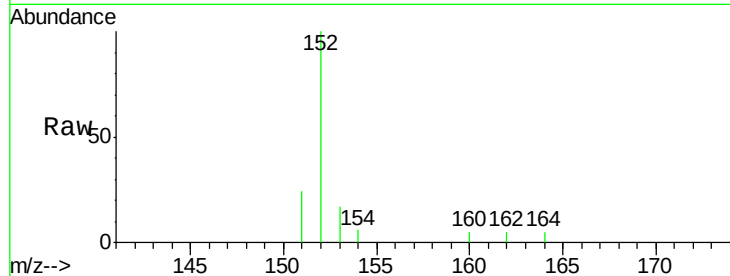
ClientSampleId :

MDL-05-W

Tgt Ion	Ratio	Lower	Upper
152	100		
151	31.8	16.3	24.5#
153	22.7	11.1	16.7#

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#14

Acenaphthene

Concen: 0.05 ng

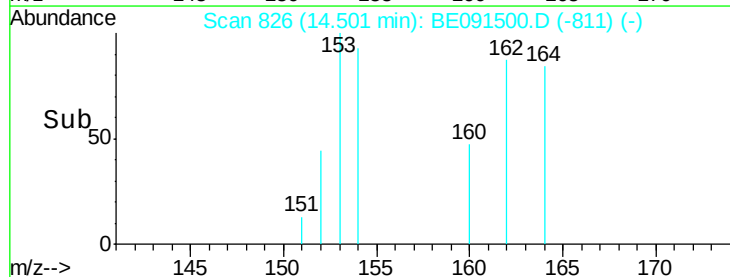
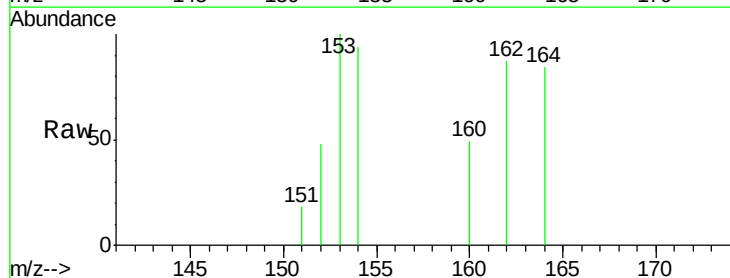
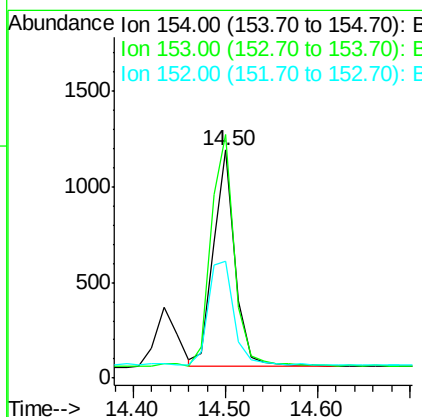
RT: 14.50 min Scan# 826

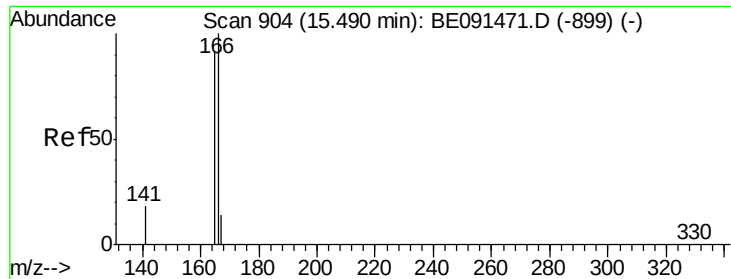
Delta R.T. 0.00 min

Lab File: BE091500.D

Acq: 21 Mar 2016 15:41

Tgt Ion	Ratio	Lower	Upper
154	100		
153	119.3	87.3	130.9
152	58.4	42.9	64.3





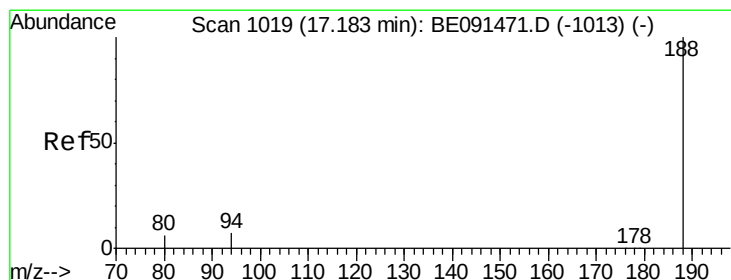
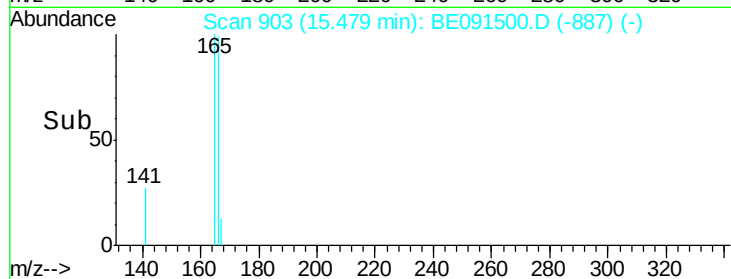
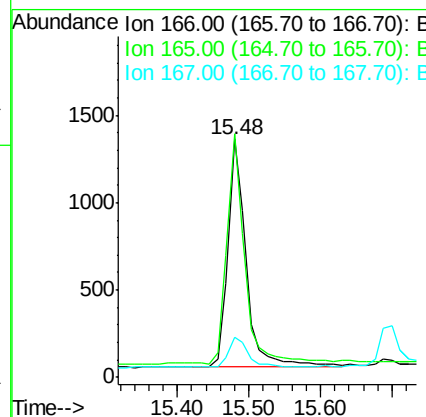
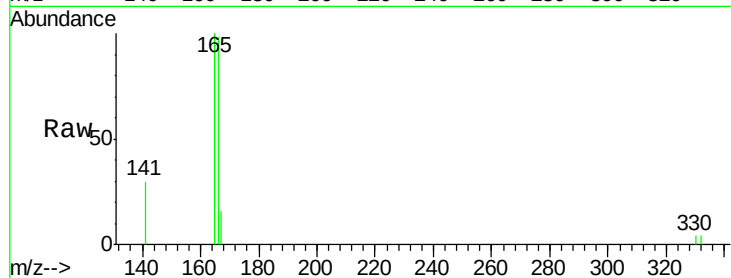
#15
Fluorene
 Concen: 0.04 ng
 RT: 15.48 min Scan# 903
 Delta R.T. -0.01 min
 Lab File: BE091500.D
 Acq: 21 Mar 2016 15:41

Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-W

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.5	79.2	118.8
167	13.9	10.8	16.2

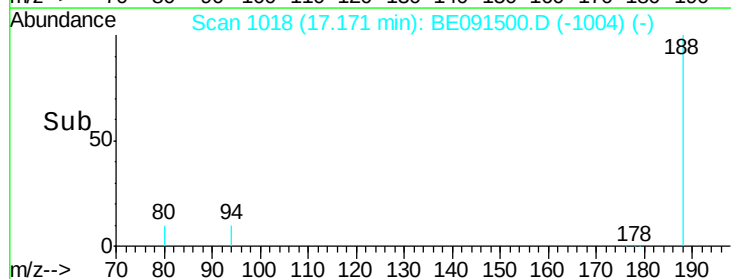
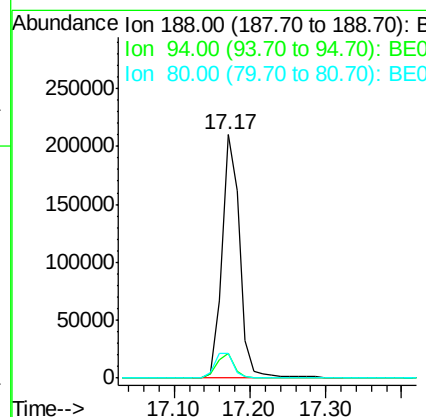
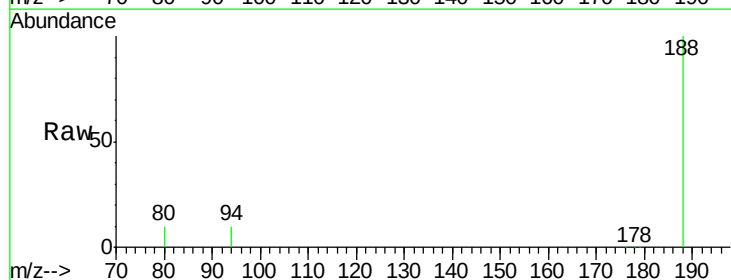
Manual Integrations
 APPROVED

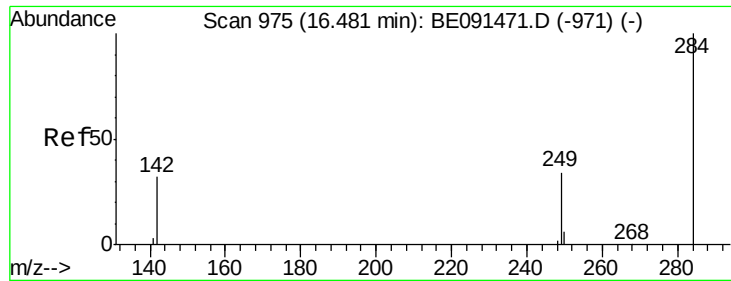
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#16
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 17.17 min Scan# 1018
 Delta R.T. -0.01 min
 Lab File: BE091500.D
 Acq: 21 Mar 2016 15:41

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.0	5.4	8.2#
80	10.0	5.0	7.4#





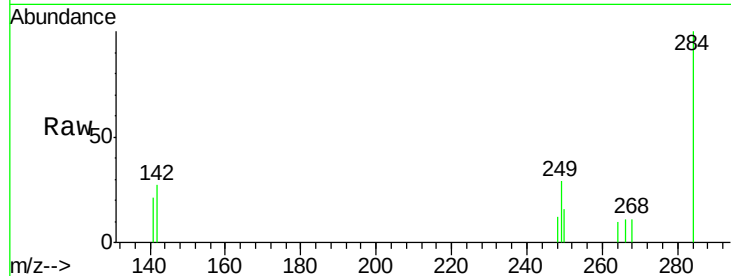
#17
Hexachlorobenzene
Concen: 0.05 ng
RT: 16.48 min Scan# 975
Delta R.T. 0.00 min
Lab File: BE091500.D
Acq: 21 Mar 2016 15:41

Instrument :
BNA_E
ClientSampleId :
MDL-05-W

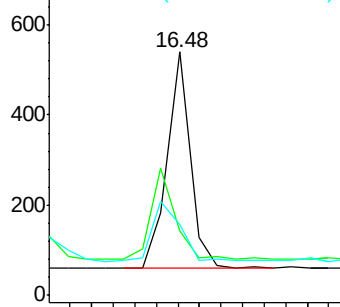
Tgt Ion	Ratio	Lower	Upper
284	100		
142	44.7	31.0	46.4
249	35.3	25.8	38.8

Manual Integrations
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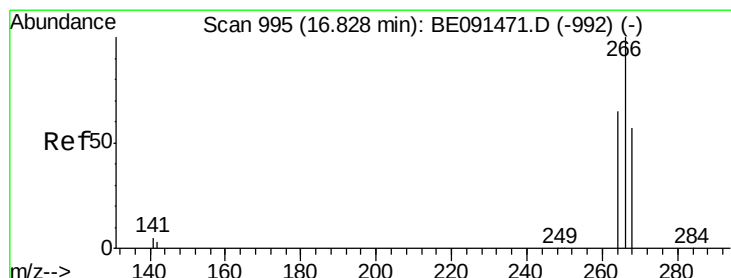
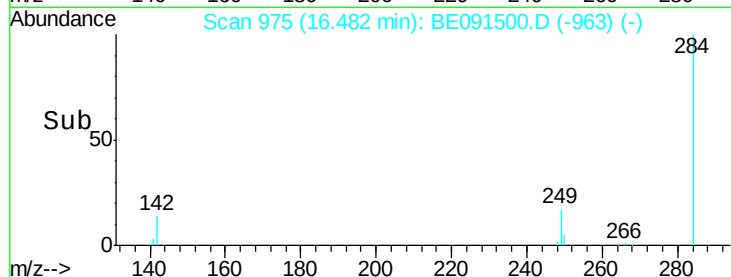
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Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

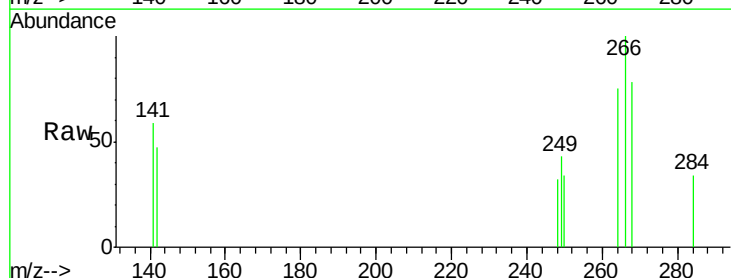


Time-->

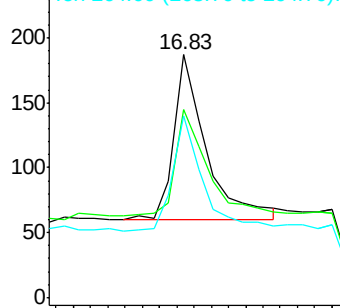


#18
Pentachlorophenol
Concen: 0.24 ng
RT: 16.83 min Scan# 995
Delta R.T. 0.00 min
Lab File: BE091500.D
Acq: 21 Mar 2016 15:41

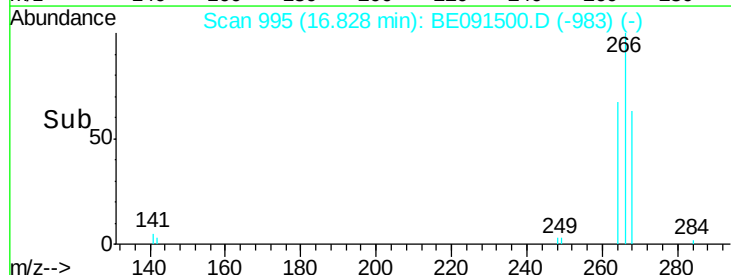
Tgt Ion	Ratio	Lower	Upper
266	100		
268	77.5	48.2	72.2#
264	74.9	52.1	78.1

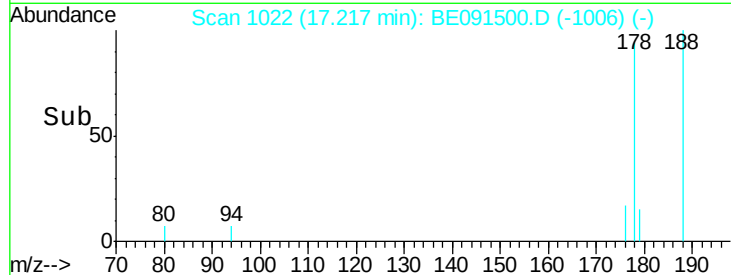
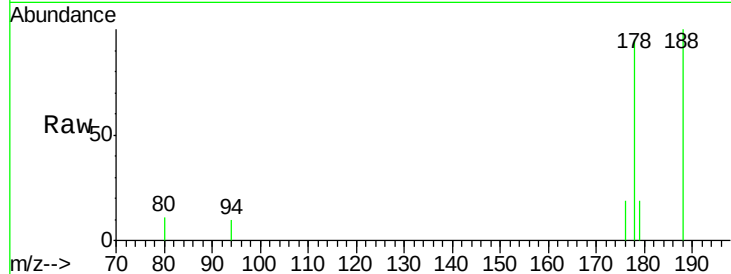
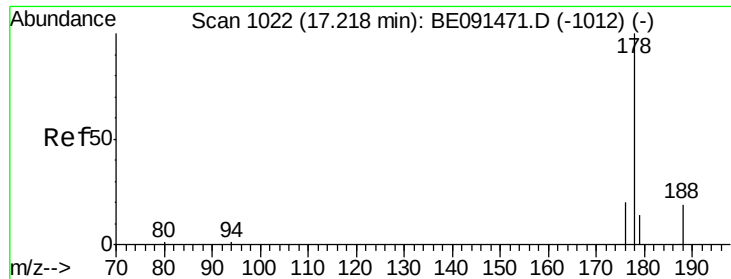


Abundance Ion 265.70 (265.40 to 266.40): E
Ion 268.00 (267.70 to 268.70): E
Ion 264.00 (263.70 to 264.70): E



Time-->





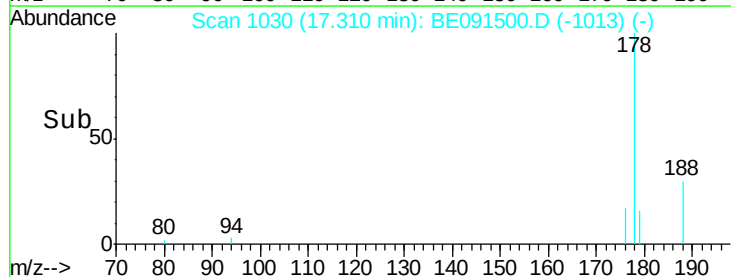
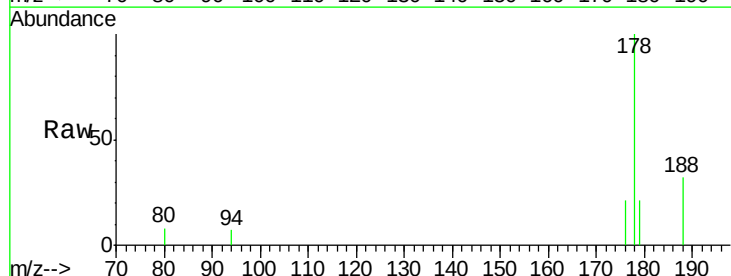
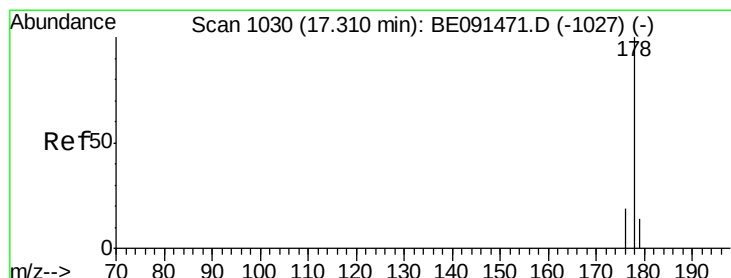
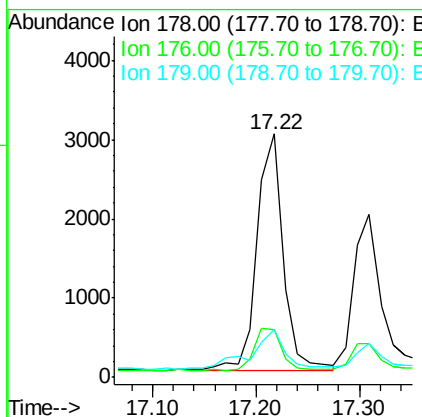
#19
Phenanthrene
Concen: 0.05 ng m
RT: 17.22 min Scan# 1022
Delta R.T. -0.00 min
Lab File: BE091500.D
Acq: 21 Mar 2016 15:41

Tgt Ion	Ratio	Lower	Upper
178	100		
176	11.9	15.5	23.3#
179	8.9	13.1	19.7#

Instrument :
BNA_E
ClientSampleId :
MDL-05-W

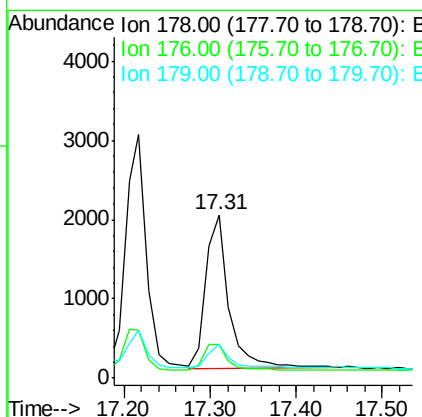
Manual Integrations
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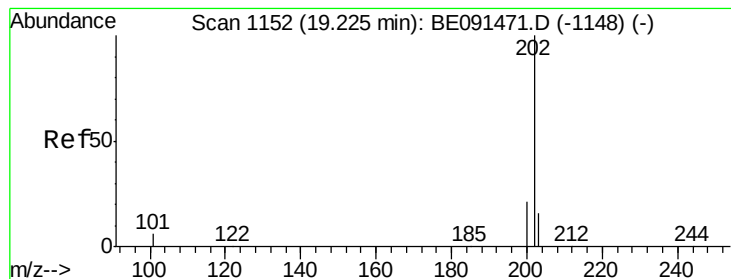
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#20
Anthracene
Concen: 0.04 ng
RT: 17.31 min Scan# 1030
Delta R.T. -0.00 min
Lab File: BE091500.D
Acq: 21 Mar 2016 15:41

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.9	22.3
179	12.9	12.2	18.4





#21

Fluoranthene

Concen: 0.04 ng

RT: 19.22 min Scan# 1152

Delta R.T. -0.00 min

Lab File: BE091500.D

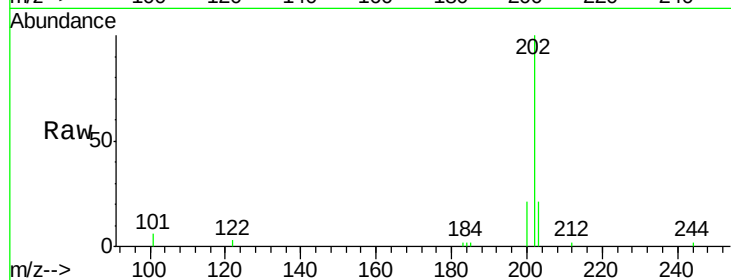
Acq: 21 Mar 2016 15:41

Instrument :

BNA_E

ClientSampleId :

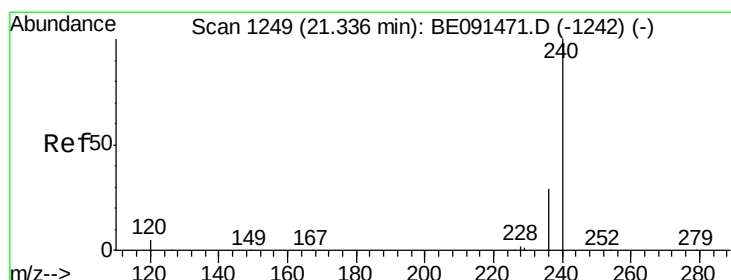
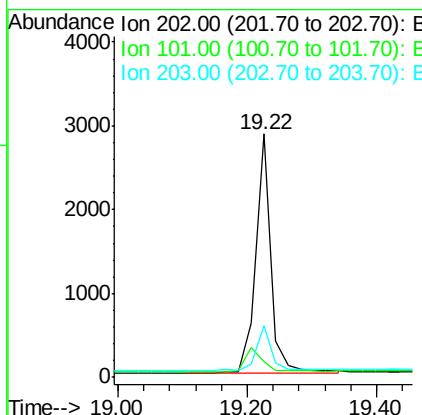
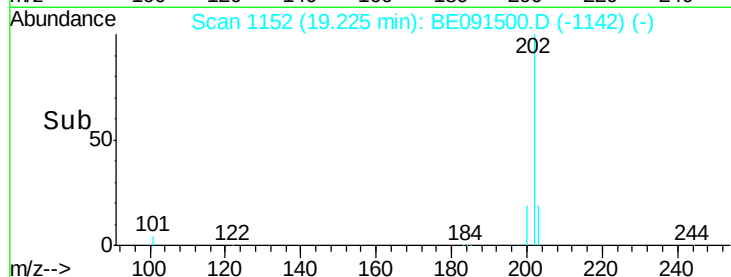
MDL-05-W



Tgt Ion	Ratio	Resp	Lower	Upper
202	100	4676		
101	11.8	8.3	12.5	
203	19.6	13.9	20.9	

Manual Integrations
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#22

Chrysene-d12

Concen: 5.00 ng

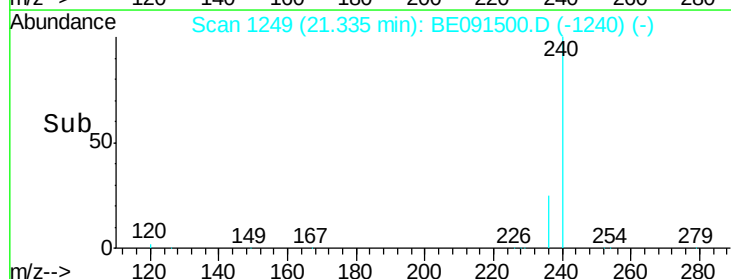
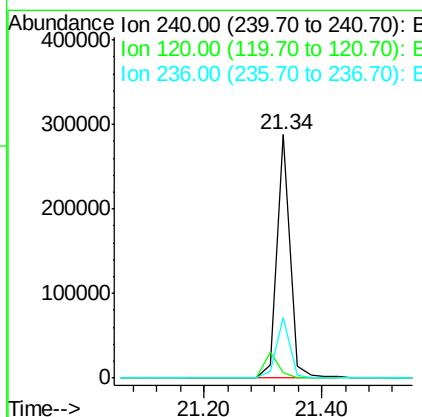
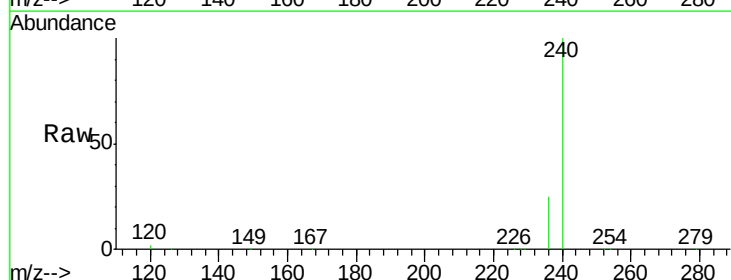
RT: 21.34 min Scan# 1249

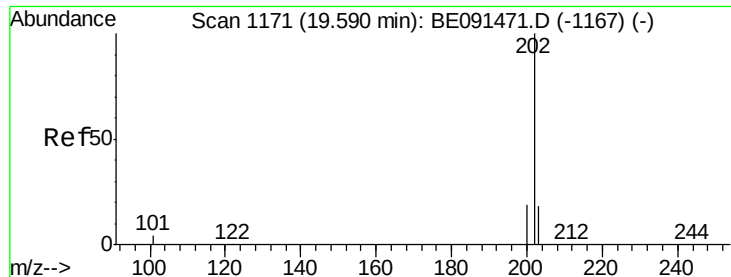
Delta R.T. -0.00 min

Lab File: BE091500.D

Acq: 21 Mar 2016 15:41

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	451261		
120	2.1	4.0	6.0#	
236	24.9	23.0	34.4	





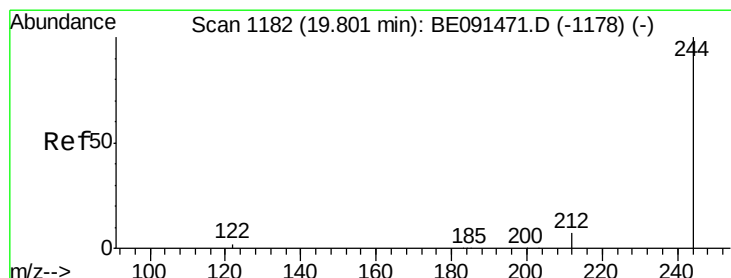
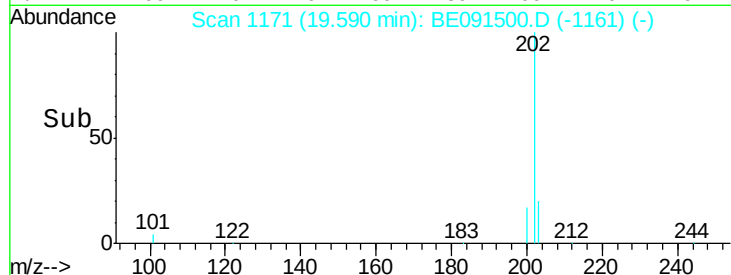
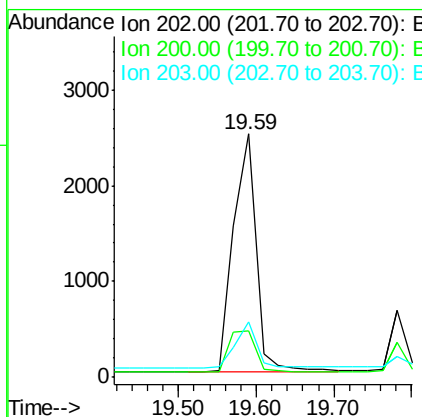
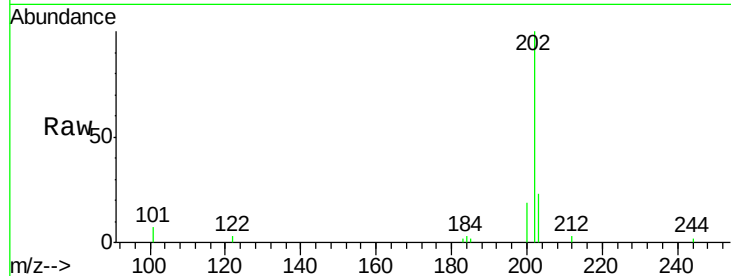
#23
 Pyrene
 Concen: 0.04 ng
 RT: 19.59 min Scan# 1171
 Delta R.T. -0.00 min
 Lab File: BE091500.D
 Acq: 21 Mar 2016 15:41

Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-W

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.4	16.4	24.6
203	18.8	14.6	21.8

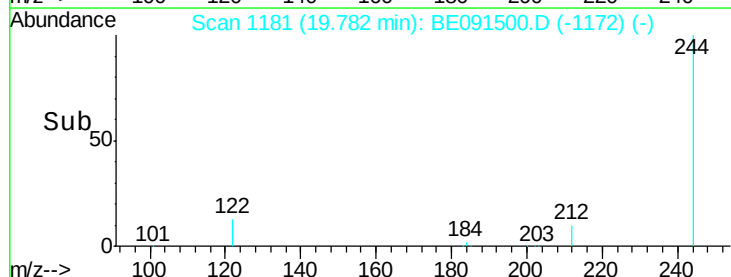
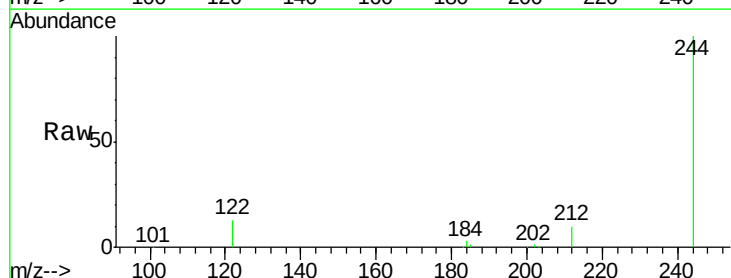
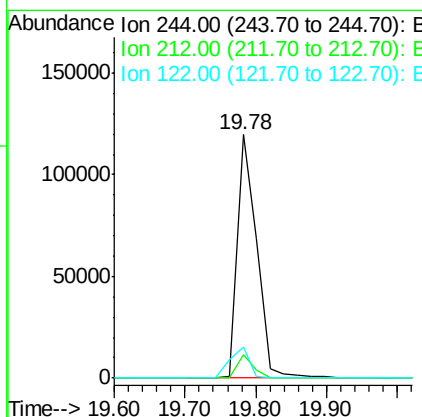
Manual Integrations
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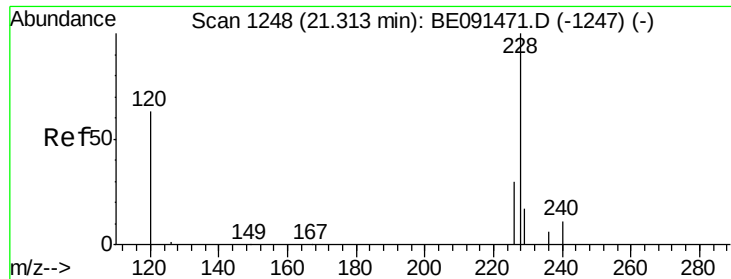
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#24
 Terphenyl-d14
 Concen: 4.22 ng
 RT: 19.78 min Scan# 1181
 Delta R.T. -0.02 min
 Lab File: BE091500.D
 Acq: 21 Mar 2016 15:41

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.8	5.8	8.8#
122	12.7	1.8	2.8#





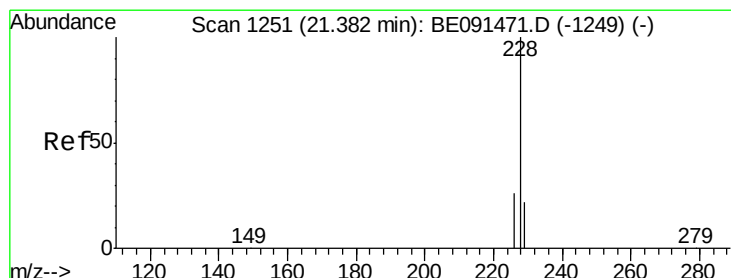
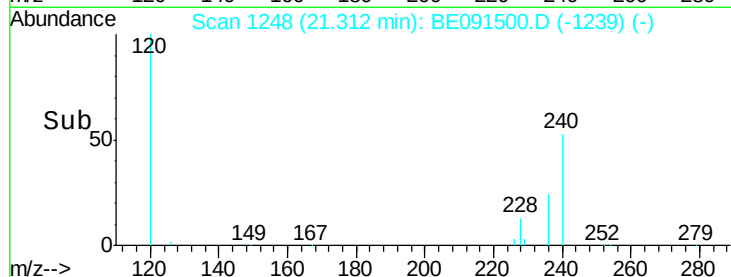
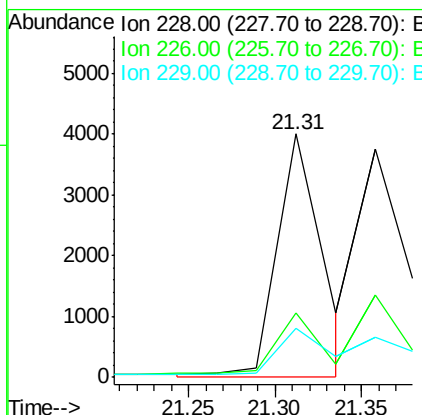
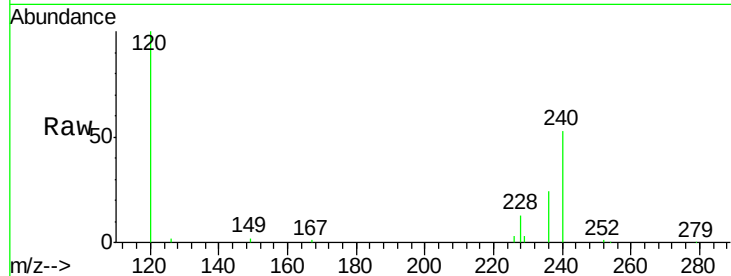
#25
Benzo(a)anthracene
Concen: 0.06 ng m
RT: 21.31 min Scan# 1248
Delta R.T. -0.00 min
Lab File: BE091500.D
Acq: 21 Mar 2016 15:41

Instrument :
BNA_E
ClientSampled :
MDL-05-W

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.2	24.0	36.0
229	20.3	13.8	20.6

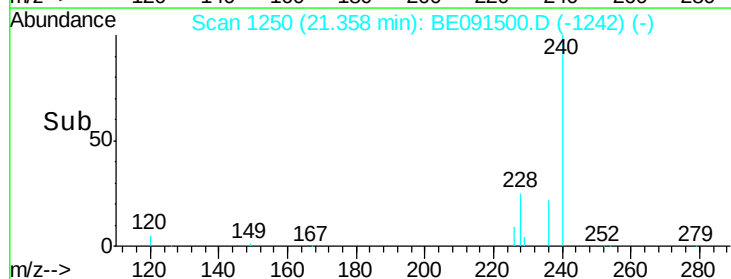
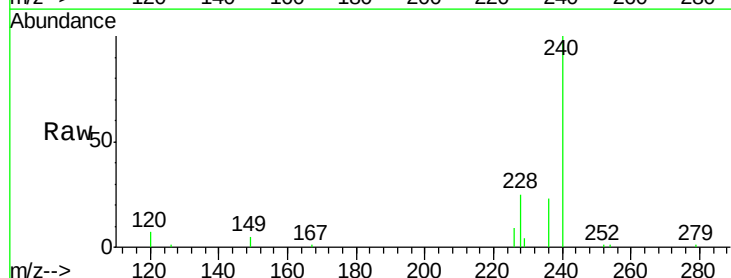
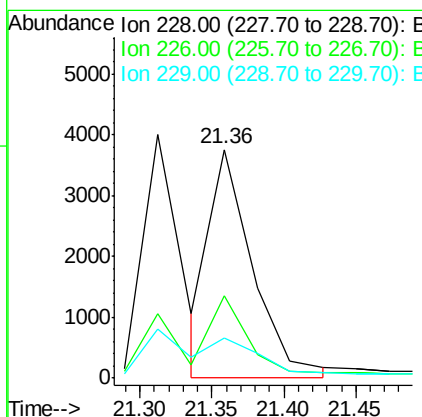
Manual Integrations
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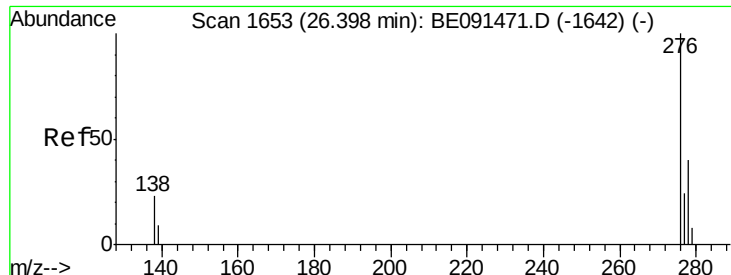
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#26
Chrysene
Concen: 0.06 ng m
RT: 21.36 min Scan# 1250
Delta R.T. -0.02 min
Lab File: BE091500.D
Acq: 21 Mar 2016 15:41

Tgt Ion	Ratio	Lower	Upper
228	100		
226	36.0	18.9	28.3#
229	17.5	19.1	28.7#





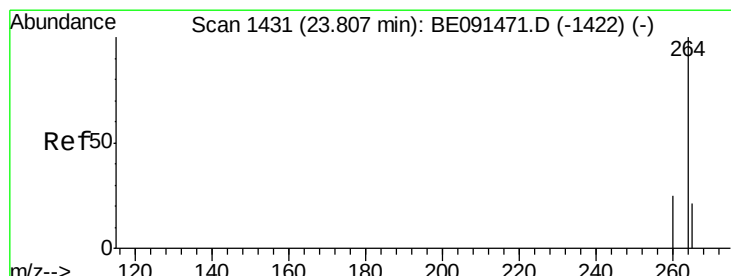
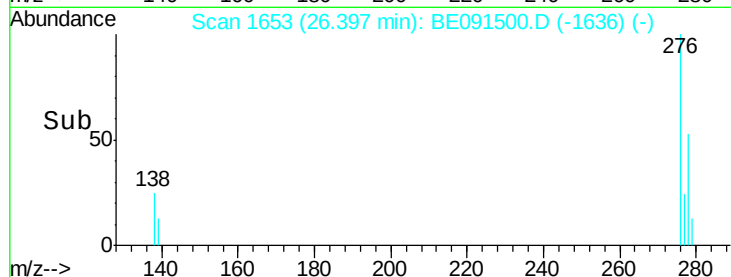
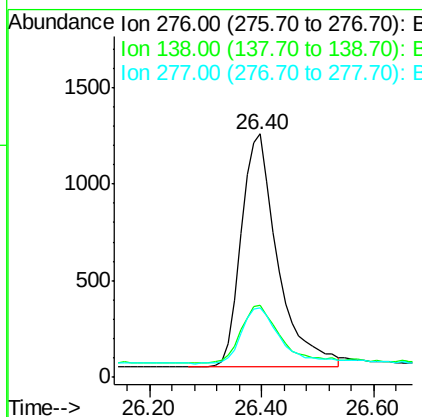
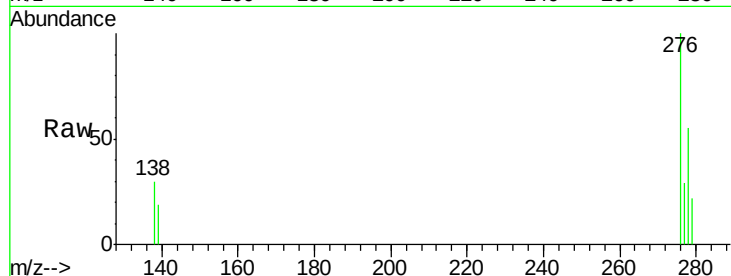
#27
Indeno(1,2,3-cd)pyrene
Concen: 0.04 ng
RT: 26.40 min Scan# 1653
Delta R.T. -0.00 min
Lab File: BE091500.D
Acq: 21 Mar 2016 15:41

Instrument :
BNA_E
ClientSampleId :
MDL-05-W

Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.4	20.2	30.4
277	25.6	19.8	29.8

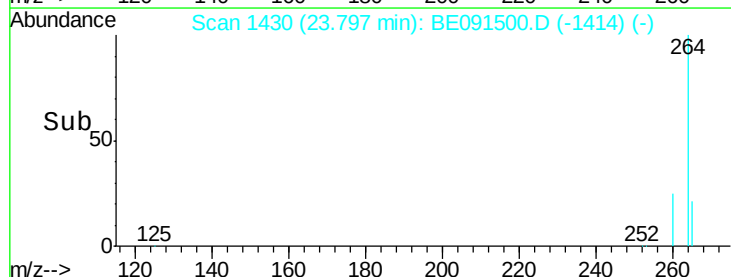
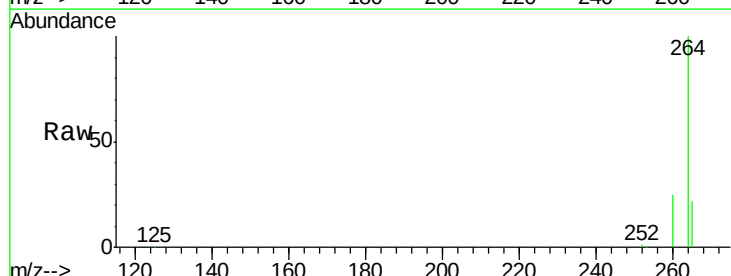
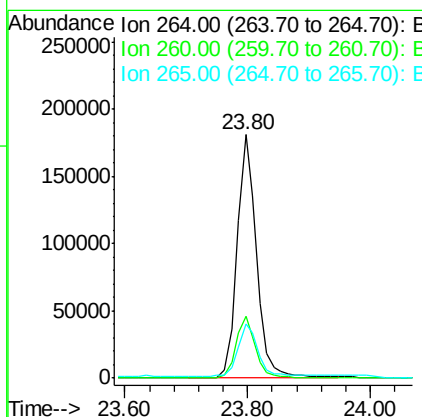
Manual Integrations
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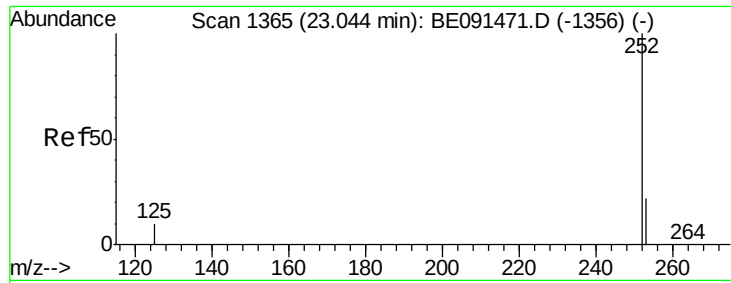
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#28
Perylene-d12
Concen: 5.00 ng
RT: 23.80 min Scan# 1430
Delta R.T. -0.01 min
Lab File: BE091500.D
Acq: 21 Mar 2016 15:41

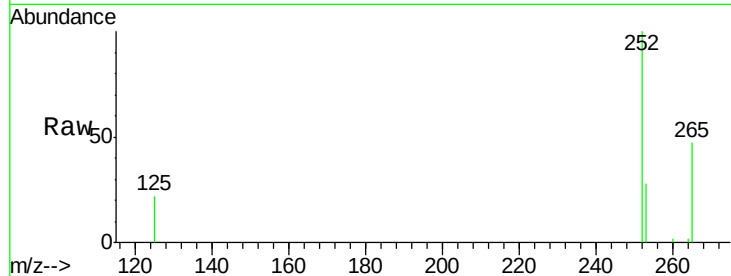
Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.3	20.1	30.1
265	22.3	18.3	27.5





#29
Benzo(b)fluoranthene
Concen: 0.06 ng
RT: 23.03 min Scan# 1364
Delta R.T. -0.01 min
Lab File: BE091500.D
Acq: 21 Mar 2016 15:41

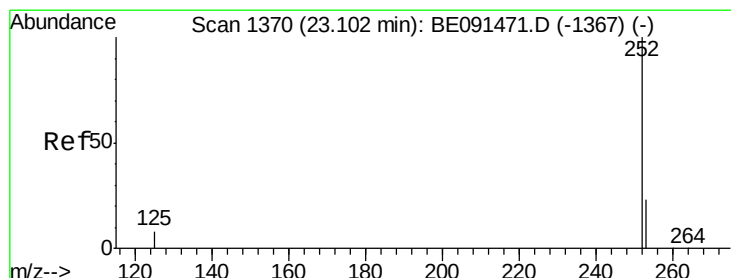
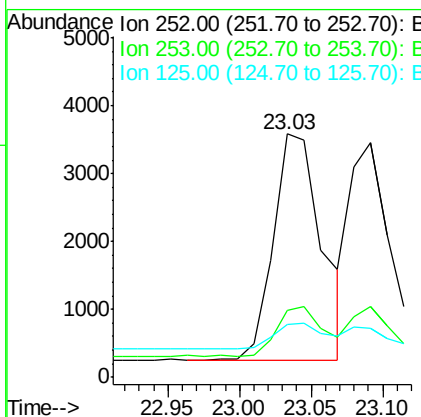
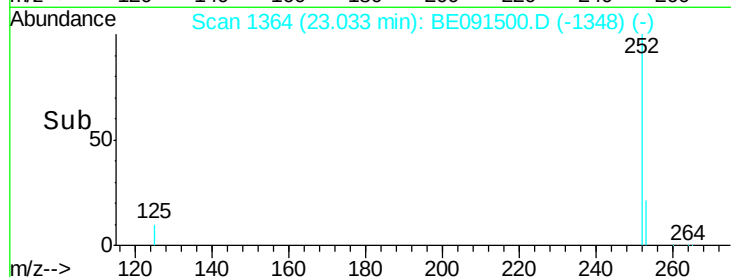
Instrument :
BNA_E
ClientSampleId :
MDL-05-W



Tgt Ion: 252 Resp: 7853
Ion Ratio Lower Upper
252 100
253 27.6 18.7 28.1
125 21.6 9.8 14.6#

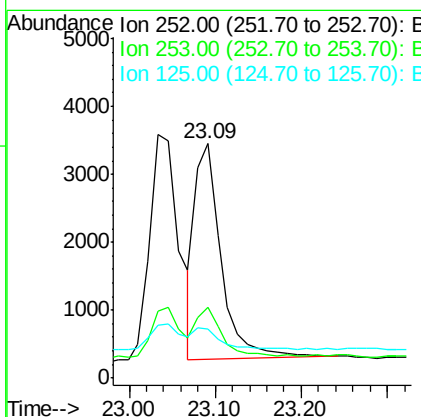
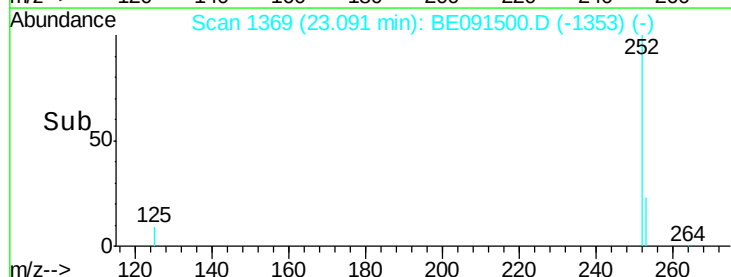
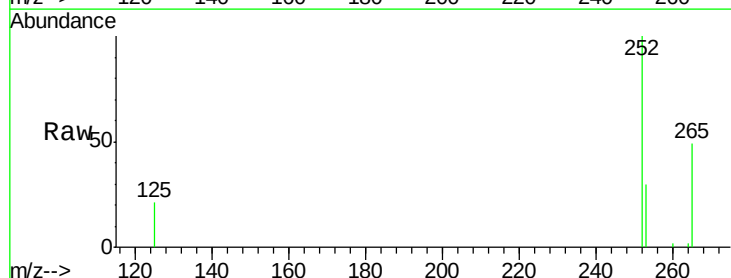
Manual Integrations
APPROVED

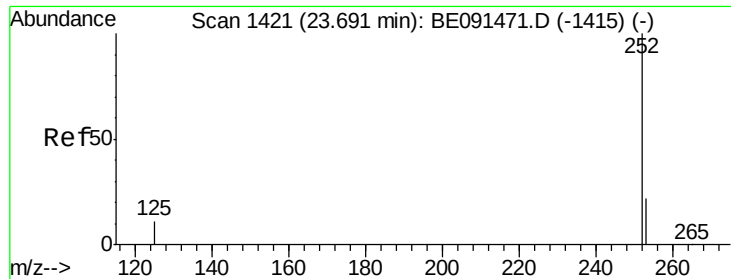
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#30
Benzo(k)fluoranthene
Concen: 0.05 ng
RT: 23.09 min Scan# 1369
Delta R.T. -0.01 min
Lab File: BE091500.D
Acq: 21 Mar 2016 15:41

Tgt Ion: 252 Resp: 6644
Ion Ratio Lower Upper
252 100
253 30.1 20.2 30.4
125 20.9 9.4 14.2#





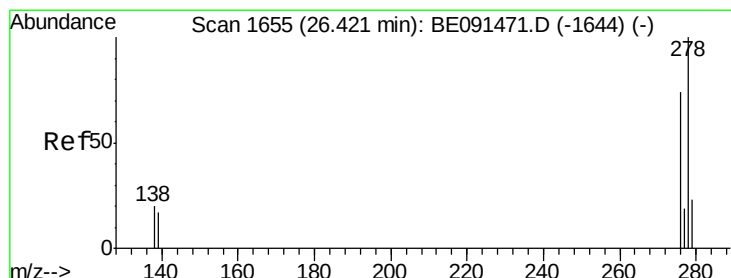
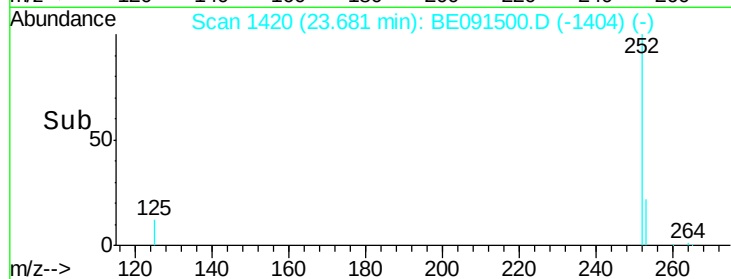
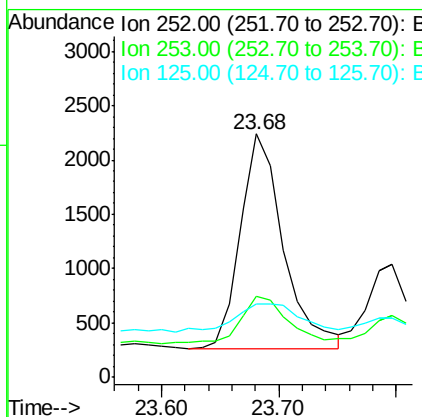
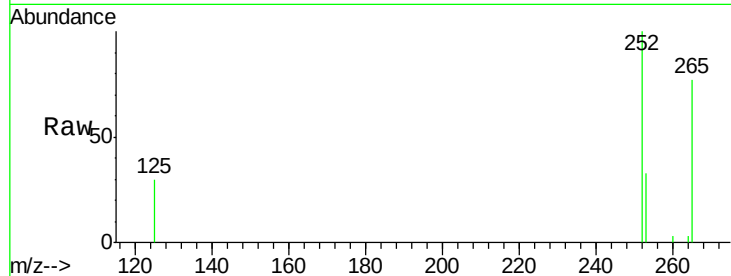
#31
Benzo(a)pyrene
Concen: 0.05 ng
RT: 23.68 min Scan# 1420
Delta R.T. -0.01 min
Lab File: BE091500.D
Acq: 21 Mar 2016 15:41

Instrument :
BNA_E
ClientSampleId :
MDL-05-W

Tgt Ion	Ratio	Lower	Upper
252	100		
253	33.1	19.4	29.0#
125	30.3	11.4	17.2#

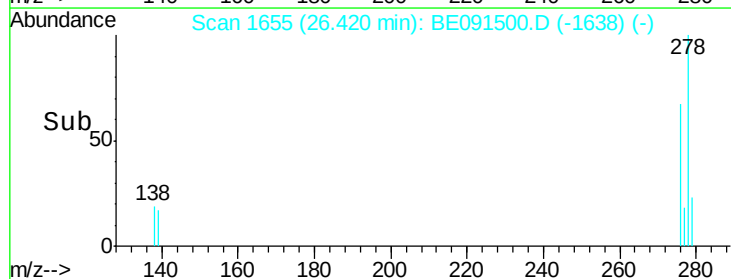
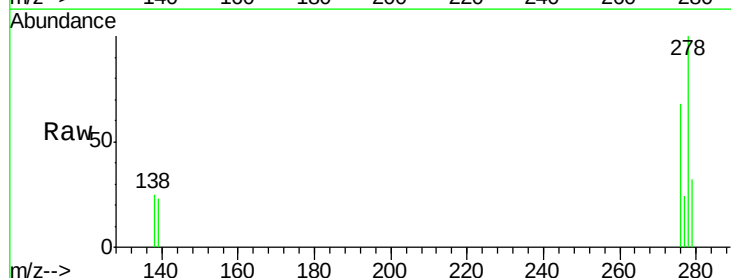
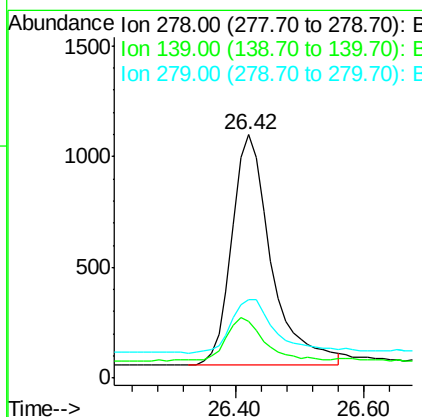
Manual Integrations
APPROVED

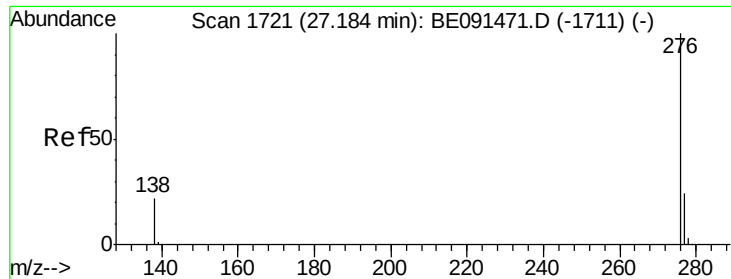
UMANGI
3/22/2016 11:28:25 AM



#32
Dibenzo(a,h)anthracene
Concen: 0.04 ng
RT: 26.42 min Scan# 1655
Delta R.T. -0.00 min
Lab File: BE091500.D
Acq: 21 Mar 2016 15:41

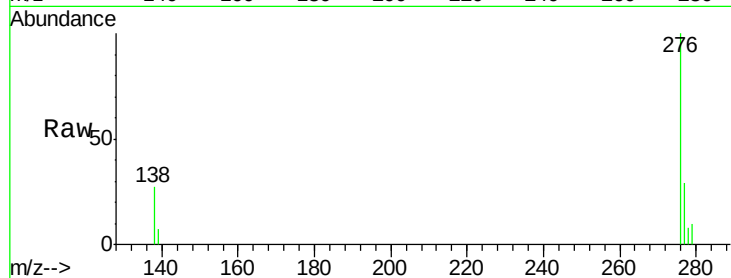
Tgt Ion	Ratio	Lower	Upper
278	100		
139	23.3	14.2	21.4#
279	32.5	19.6	29.4#





#33
 Benzo(g,h,i)perylene
 Concen: 0.04 ng
 RT: 27.18 min Scan# 1721
 Delta R.T. -0.00 min
 Lab File: BE091500.D
 Acq: 21 Mar 2016 15:41

Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-W



Tgt Ion	Ratio	Lower	Upper
276	100		
277	29.3	19.4	29.2#
138	26.8	18.2	27.4

Manual Integrations
 APPROVED

UMANGI
 3/22/2016 11:28:25 AM

