

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE031916\
 Data File : BE091487.D
 Acq On : 18 Mar 2016 16:31
 Operator : UM/SJ
 Sample : MDL-07-W
 Misc : 0.08PPM
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-07-W

Manual Integrations
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 3/22/2016 10:48:41 AM

Quant Time: Mar 18 17:08:04 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	53795	5.00	ng	0.00
6) Naphthalene-d8	10.61	136	230274	5.00	ng	0.00
10) Acenaphthene-d10	14.45	164	129727	5.00	ng	0.00
16) Phenanthrene-d10	17.17	188	338330	5.00	ng	-0.01
22) Chrysene-d12	21.34	240	464203	5.00	ng	0.00
28) Perylene-d12	23.80	264	391932	5.00	ng	-0.01

System Monitoring Compounds

4) 2-Fluorophenol	5.43	112	86631	7.01	ng	0.00
5) Phenol-d6	6.99	99	112024	6.94	ng	0.00
7) Nitrobenzene-d5	8.98	82	38552	3.14	ng	0.00
11) 2,4,6-Tribromophenol	15.92	330	30340	6.39	ng	0.00
12) 2-Fluorobiphenyl	13.07	172	137410	4.21	ng	0.00
24) Terphenyl-d14	19.78	244	225721	4.04	ng	-0.02

Target Compounds

						Qvalue
2) 1,4-Dioxane	3.37	88	822	0.12	ng	# 64
3) n-Nitrosodimethylamine	3.71	42	239	0.03	ng	# 77
8) Naphthalene	10.65	128	2850	0.05	ng	# 93
9) 2-Methylnaphthalene	12.27	142	1601	0.04	ng	# 96
13) Acenaphthylene	14.16	152	2229	0.17	ng	# 89
14) Acenaphthene	14.50	154	1837	0.05	ng	92
15) Fluorene	15.48	166	2249	0.04	ng	95
17) Hexachlorobenzene	16.48	284	735	0.05	ng	96
18) Pentachlorophenol	16.83	266	299	0.24	ng	# 84
19) Phenanthrene	17.22	178	5123m	0.05	ng	
20) Anthracene	17.31	178	3599	0.04	ng	99
21) Fluoranthene	19.22	202	5347	0.05	ng	98
23) Pyrene	19.59	202	5721	0.05	ng	96
25) Benzo(a)anthracene	21.31	228	7540m	0.06	ng	
26) Chrysene	21.36	228	10246m	0.08	ng	
27) Indeno(1,2,3-cd)pyrene	26.39	276	5288	0.04	ng	98
29) Benzo(b)fluoranthene	23.03	252	8400	0.07	ng	# 83
30) Benzo(k)fluoranthene	23.09	252	6927	0.05	ng	# 83
31) Benzo(a)pyrene	23.68	252	5079	0.05	ng	# 71
32) Dibenzo(a,h)anthracene	26.42	278	4227	0.04	ng	# 81
33) Benzo(g,h,i)perylene	27.17	276	4932	0.04	ng	# 91

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

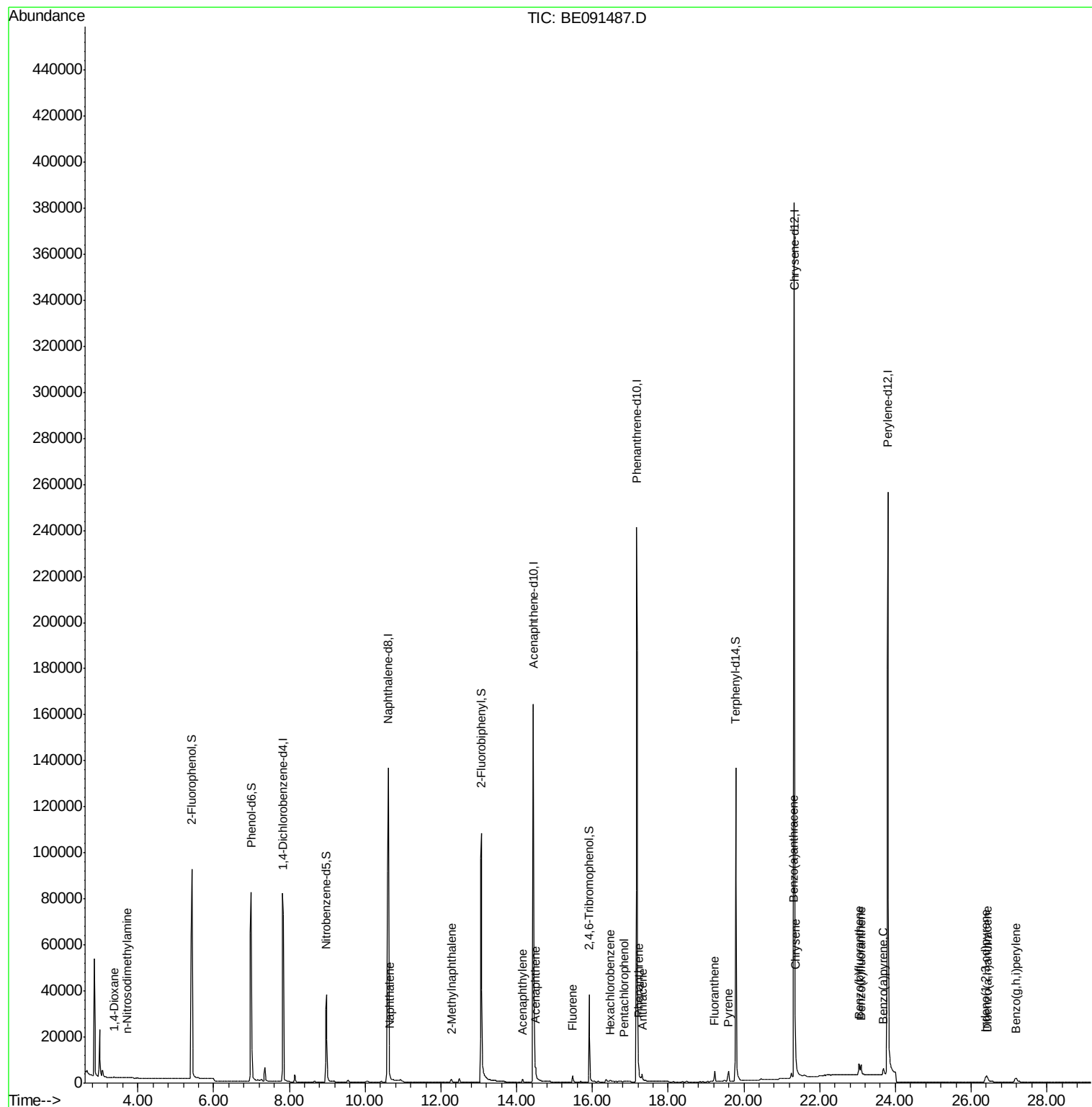
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE031916\
Data File : BE091487.D
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ALS Vial : 17 Sample Multiplier: 1

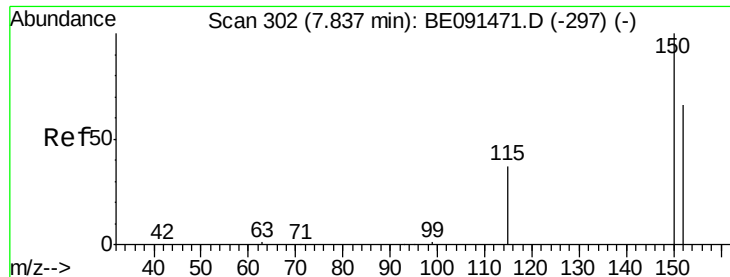
Instrument :
BNA_E
ClientSampleId :
MDL-07-W

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3/22/2016 10:48:41 AM

Quant Time: Mar 18 17:08:04 2016
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE031816.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.84 min Scan# 302

Delta R.T. 0.00 min

Lab File: BE091487.D

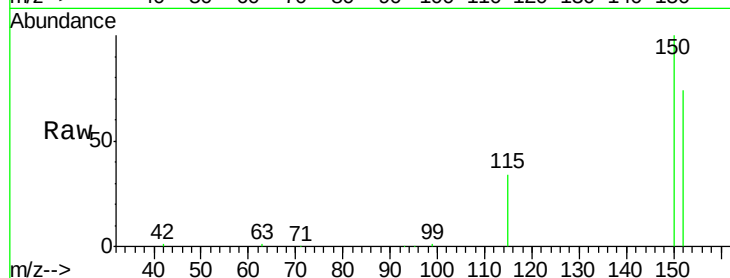
Acq: 18 Mar 2016 16:31

Instrument :

BNA_E

ClientSampleId :

MDL-07-W



Tgt Ion: 152 Resp: 53795

Ion Ratio Lower Upper

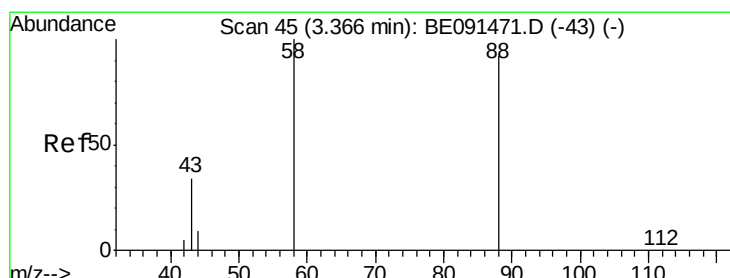
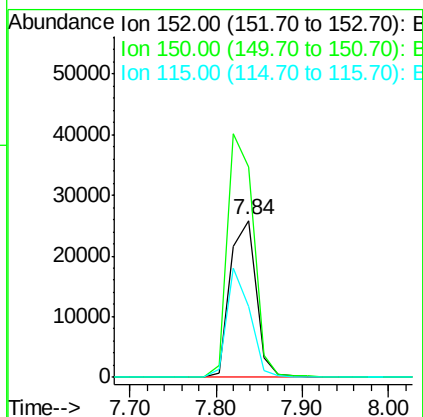
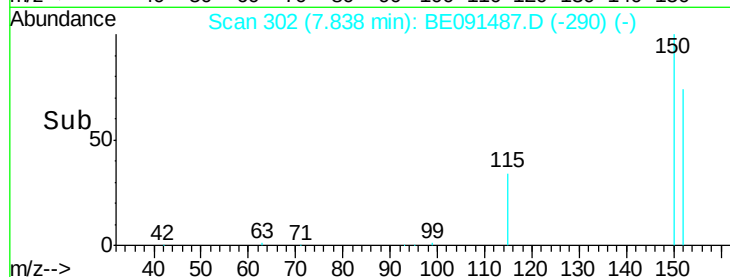
152 100

150 134.3 122.2 183.2

115 45.5 45.9 68.9#

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#2

1,4-Dioxane

Concen: 0.12 ng

RT: 3.37 min Scan# 45

Delta R.T. 0.00 min

Lab File: BE091487.D

Acq: 18 Mar 2016 16:31

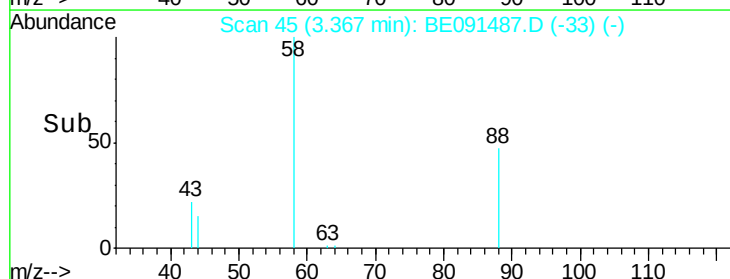
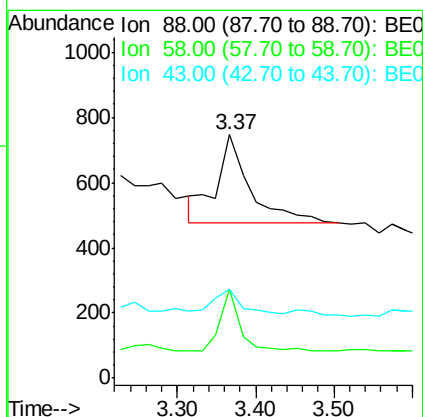
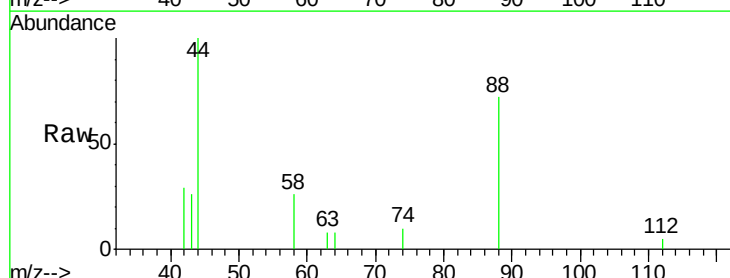
Tgt Ion: 88 Resp: 822

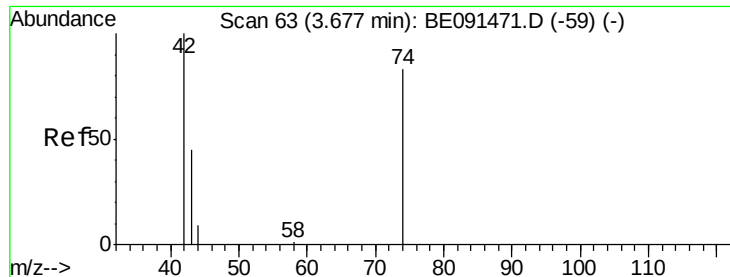
Ion Ratio Lower Upper

88 100

58 40.4 61.0 91.6#

43 20.3 25.4 38.2#





#3

n-Nitrosodimethylamine

Concen: 0.03 ng

RT: 3.71 min Scan# 65

Delta R.T. 0.04 min

Lab File: BE091487.D

Acq: 18 Mar 2016 16:31

Instrument :

BNA_E

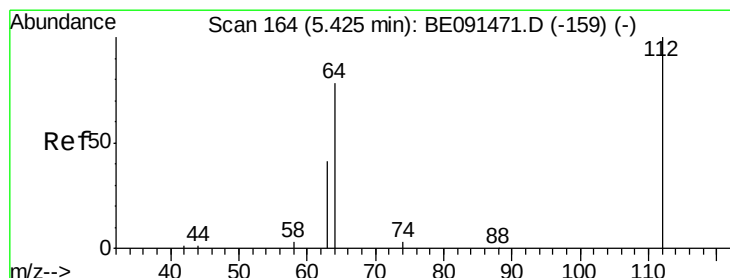
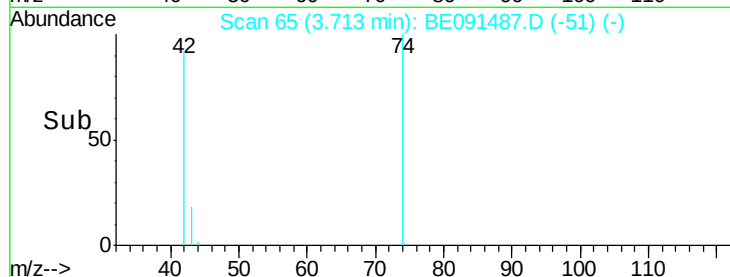
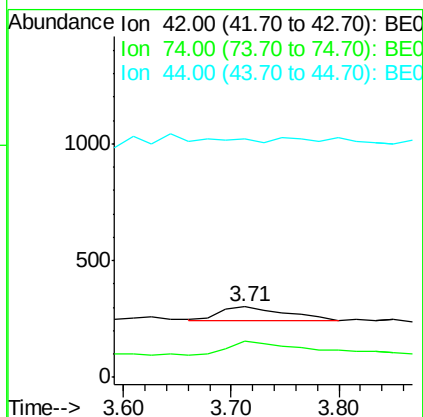
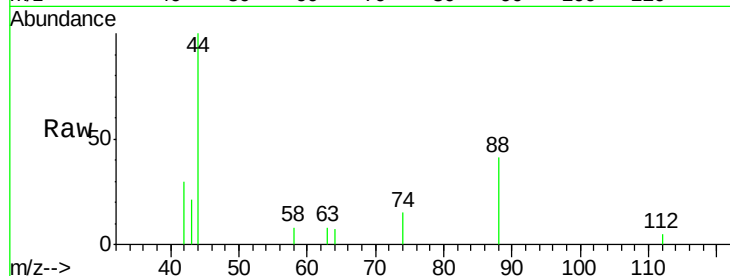
ClientSampleId :

MDL-07-W

Tgt Ion:	42	Resp:	239
Ion	Ratio	Lower	Upper
42	100		
74	129.3	84.3	126.5#
44	0.0	6.7	10.1#

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#4

2-Fluorophenol

Concen: 7.01 ng

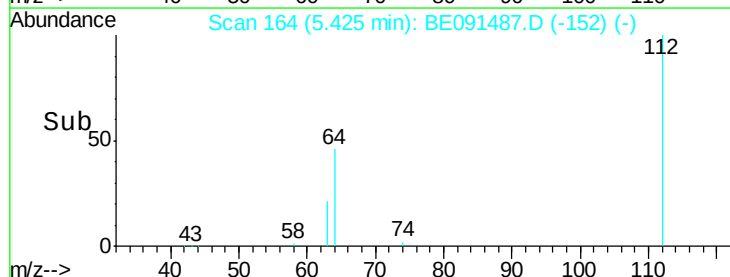
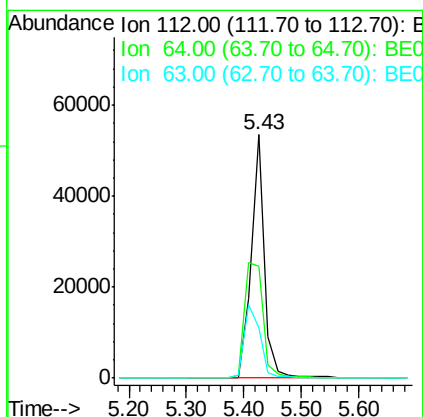
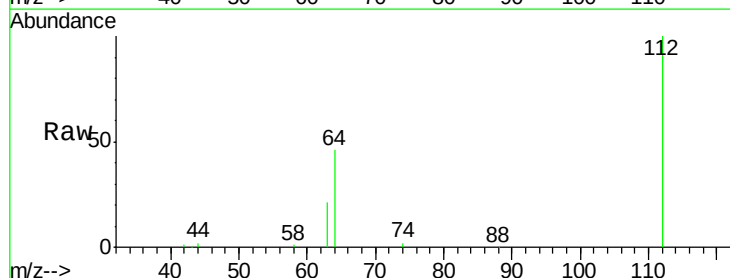
RT: 5.43 min Scan# 164

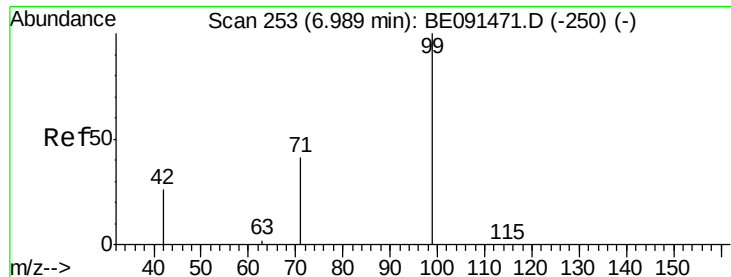
Delta R.T. 0.00 min

Lab File: BE091487.D

Acq: 18 Mar 2016 16:31

Tgt Ion:	112	Resp:	86631
Ion	Ratio	Lower	Upper
112	100		
64	66.0	53.3	79.9
63	35.8	29.8	44.8





#5

Phenol-d6

Concen: 6.94 ng

RT: 6.99 min Scan# 253

Delta R.T. 0.00 min

Lab File: BE091487.D

Acq: 18 Mar 2016 16:31

Instrument :

BNA_E

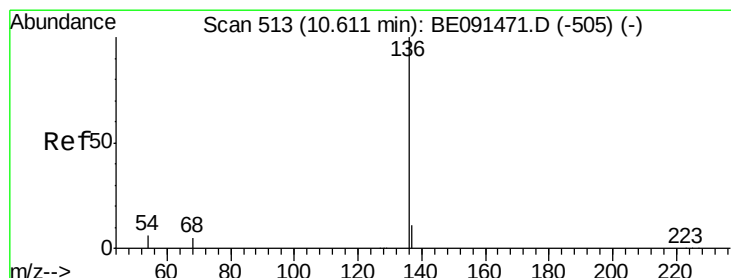
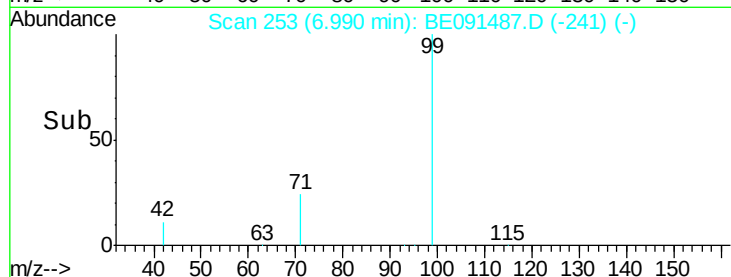
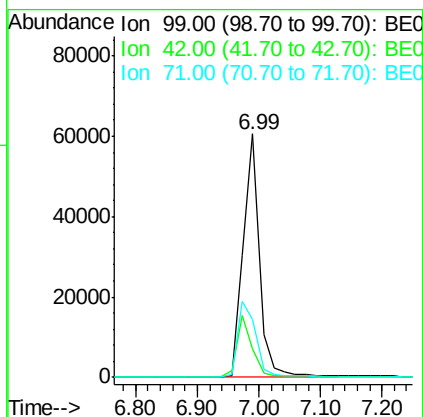
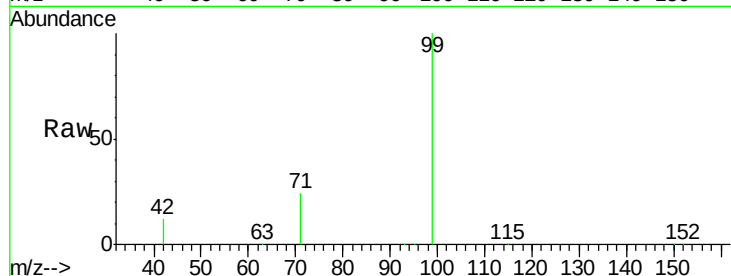
ClientSampleId :

MDL-07-W

Tgt Ion	Ratio	Resp	Lower	Upper
99	100	112024		
42	24.2	20.6	30.8	
71	35.2	29.0	43.4	

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#6

Naphthalene-d8

Concen: 5.00 ng

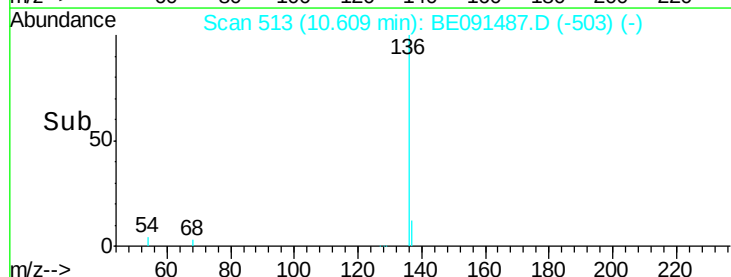
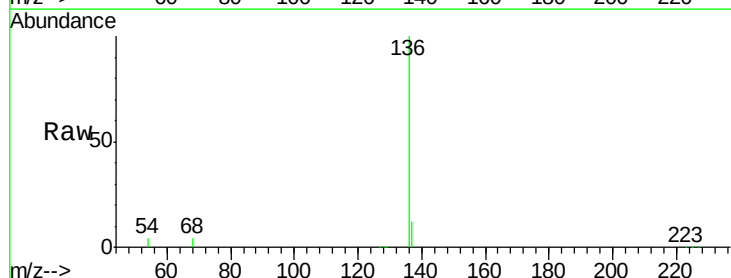
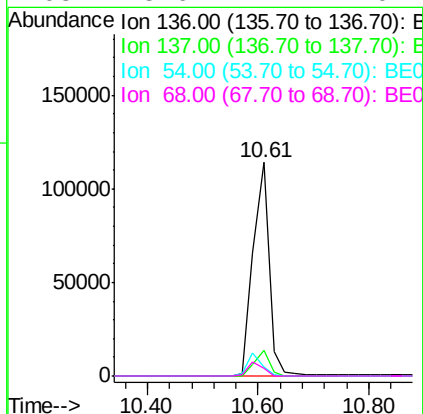
RT: 10.61 min Scan# 513

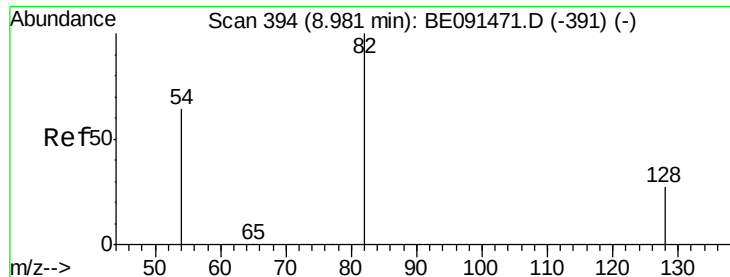
Delta R.T. -0.00 min

Lab File: BE091487.D

Acq: 18 Mar 2016 16:31

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	230274		
137	11.7	8.8	13.2	
54	4.3	5.2	7.8#	
68	3.6	4.1	6.1#	





#7

Nitrobenzene-d5

Concen: 3.14 ng

RT: 8.98 min Scan# 394

Delta R.T. 0.00 min

Lab File: BE091487.D

Acq: 18 Mar 2016 16:31

Instrument :

BNA_E

ClientSampleId :

MDL-07-W

Tgt Ion: 82 Resp: 38552

Ion Ratio Lower Upper

82 100

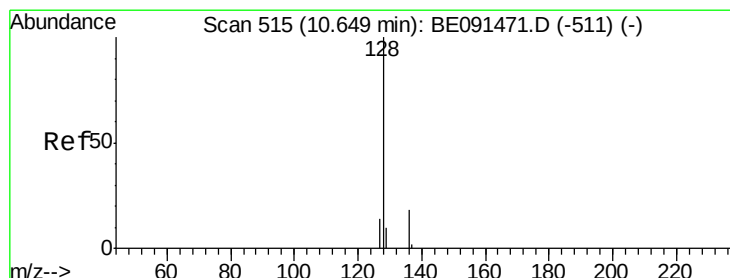
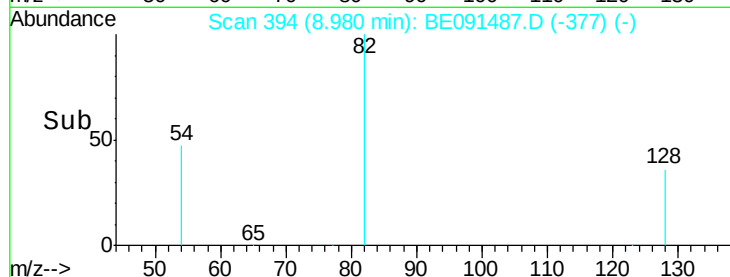
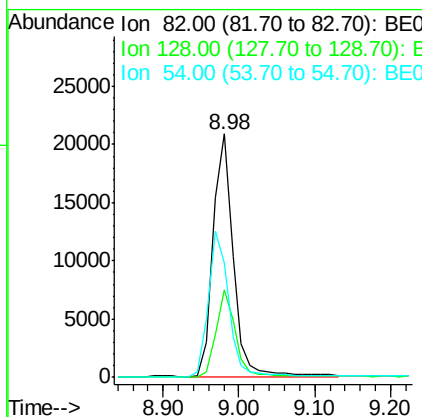
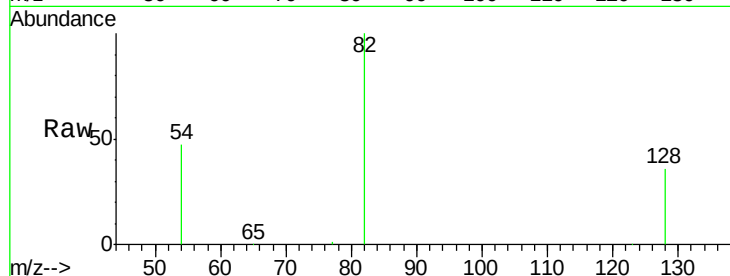
128 36.0 23.5 35.3#

54 46.8 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: BE091487.D

Acq: 18 Mar 2016 16:31

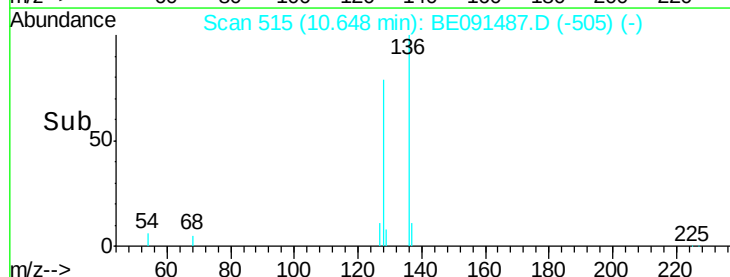
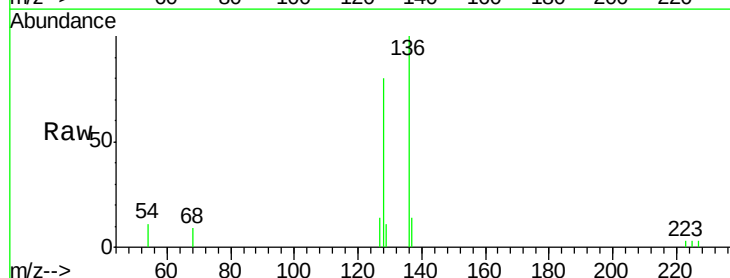
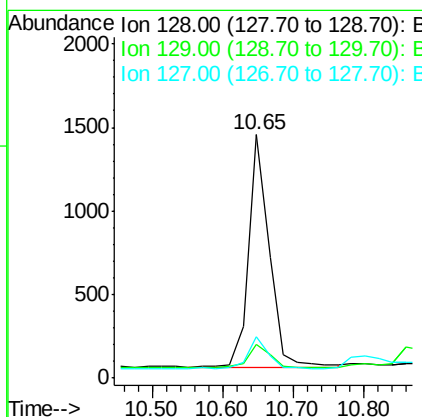
Tgt Ion: 128 Resp: 2850

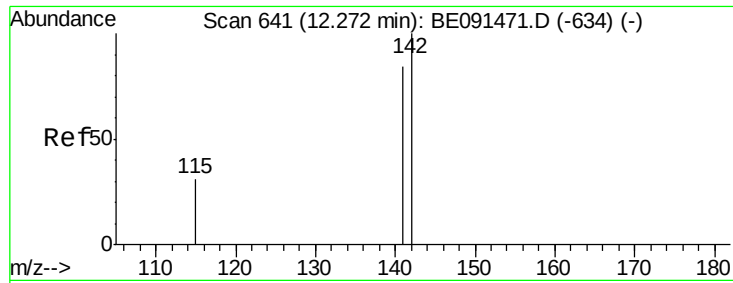
Ion Ratio Lower Upper

128 100

129 14.0 8.2 12.2#

127 17.0 11.8 17.8





#9

2-Methylnaphthalene

Concen: 0.04 ng

RT: 12.27 min Scan# 641

Delta R.T. -0.00 min

Lab File: BE091487.D

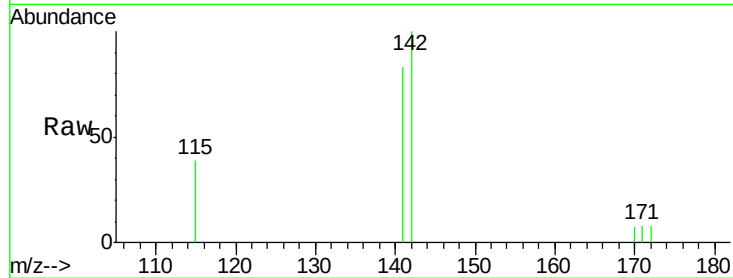
Acq: 18 Mar 2016 16:31

Instrument :

BNA_E

ClientSampleId :

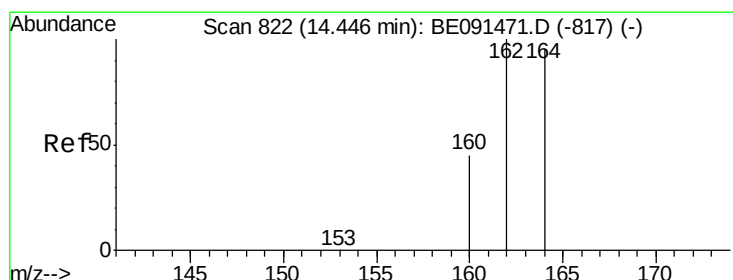
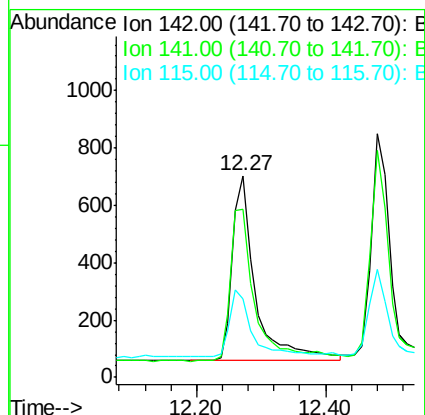
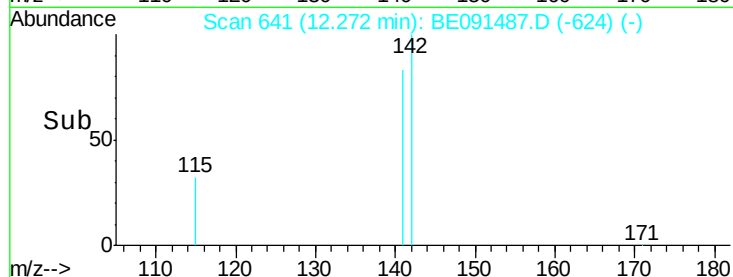
MDL-07-W



Tgt Ion:	142	Resp:	1601
Ion Ratio	Lower	Upper	
142	100		
141	83.5	66.9	100.3
115	39.1	25.1	37.7#

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#10

Acenaphthene-d10

Concen: 5.00 ng

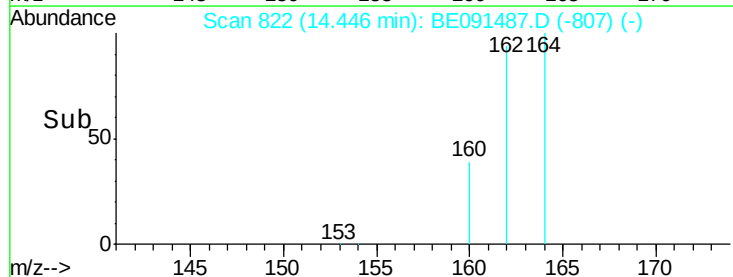
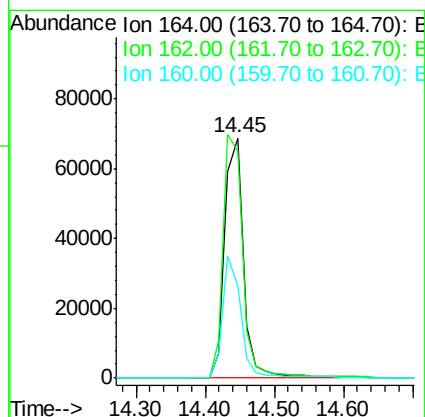
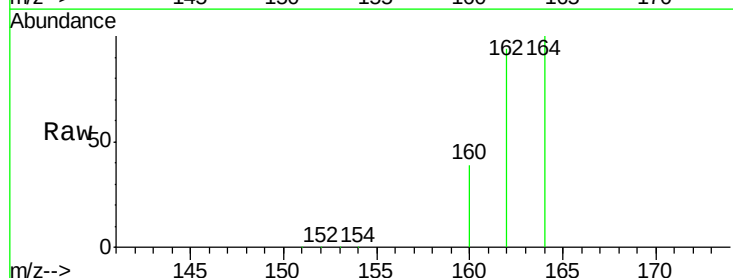
RT: 14.45 min Scan# 822

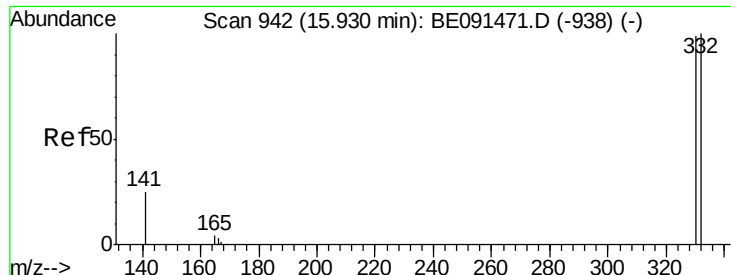
Delta R.T. 0.00 min

Lab File: BE091487.D

Acq: 18 Mar 2016 16:31

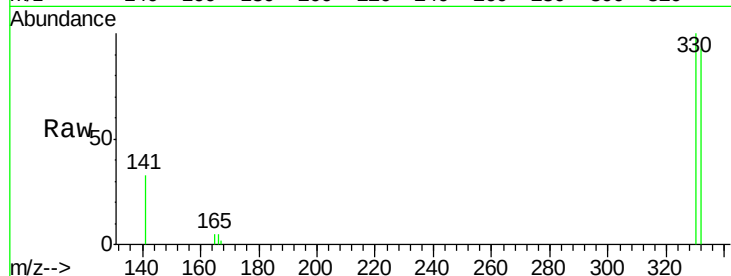
Tgt Ion:	164	Resp:	129727
Ion Ratio	Lower	Upper	
164	100		
162	94.2	84.4	126.6
160	38.6	37.7	56.5





#11
 2,4,6-Tribromophenol
 Concen: 6.39 ng
 RT: 15.92 min Scan# 941
 Delta R.T. -0.01 min
 Lab File: BE091487.D
 Acq: 18 Mar 2016 16:31

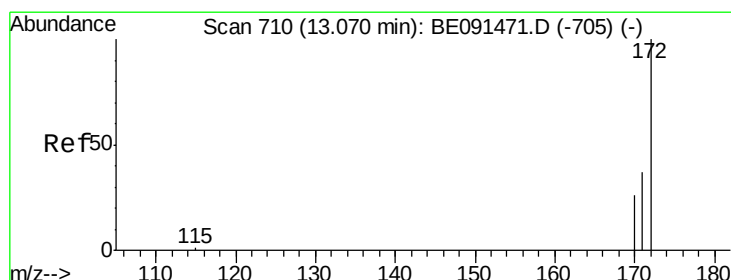
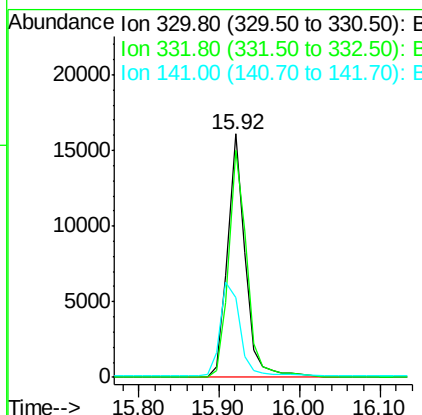
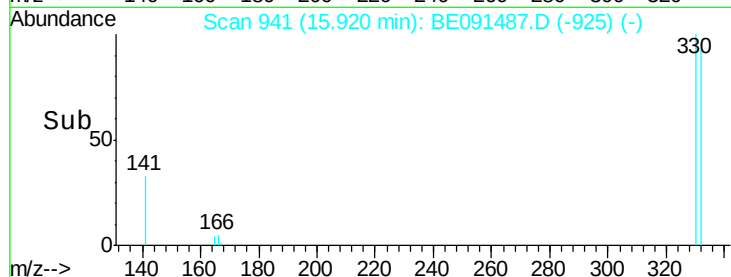
Instrument :
 BNA_E
 ClientSampleId :
 MDL-07-W



Tgt Ion	Ratio	Resp	Lower	Upper
330	100	30340		
332	97.7	79.2	118.8	
141	44.1	28.1	42.1#	

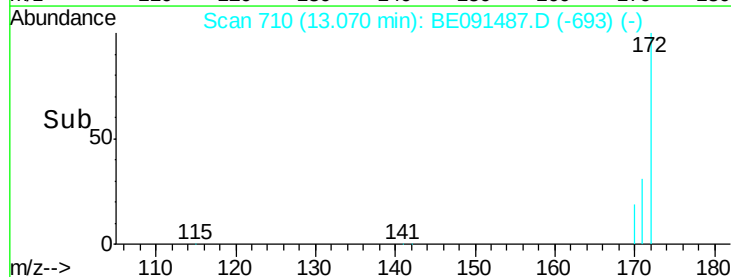
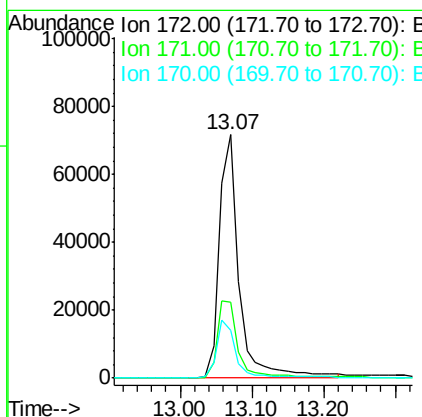
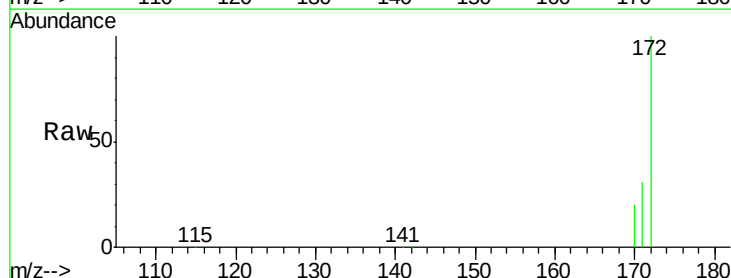
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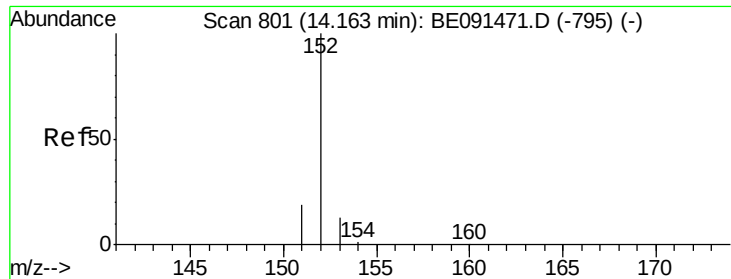
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#12
 2-Fluorobiphenyl
 Concen: 4.21 ng
 RT: 13.07 min Scan# 710
 Delta R.T. -0.00 min
 Lab File: BE091487.D
 Acq: 18 Mar 2016 16:31

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	137410		
171	31.4	29.8	44.8	
170	19.5	21.4	32.2#	





#13

Acenaphthylene

Concen: 0.17 ng

RT: 14.16 min Scan# 801

Delta R.T. 0.00 min

Lab File: BE091487.D

Acq: 18 Mar 2016 16:31

Instrument :

BNA_E

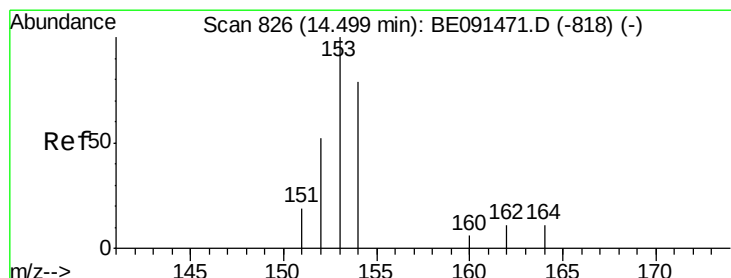
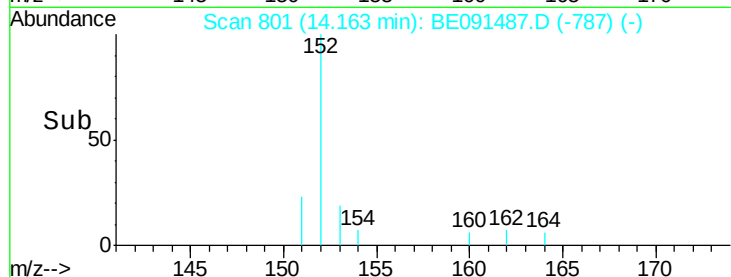
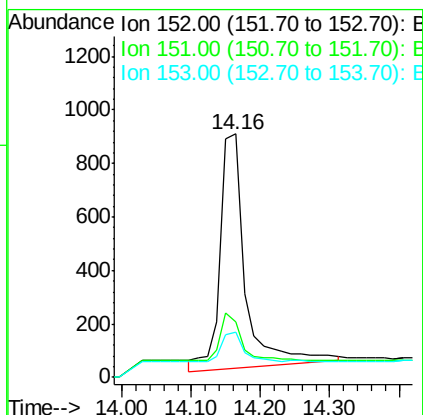
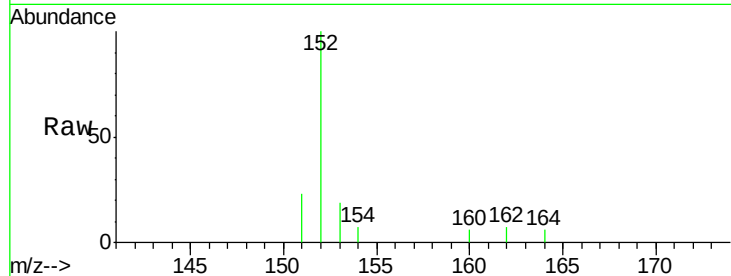
ClientSampleId :

MDL-07-W

Tgt Ion:	152	Resp:	2229
Ion Ratio	Lower	Upper	
152	100		
151	27.5	16.3	24.5#
153	15.7	11.1	16.7

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#14

Acenaphthene

Concen: 0.05 ng

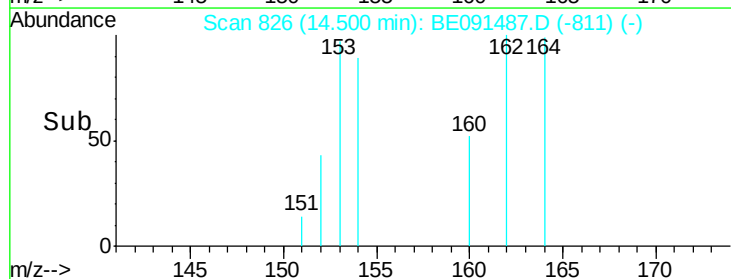
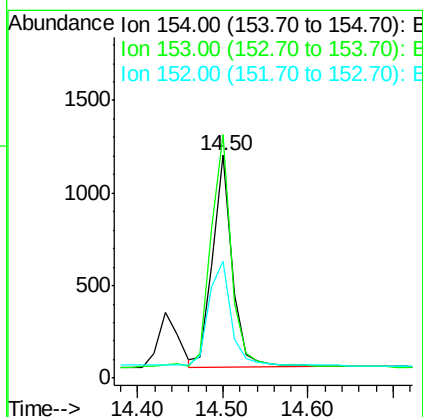
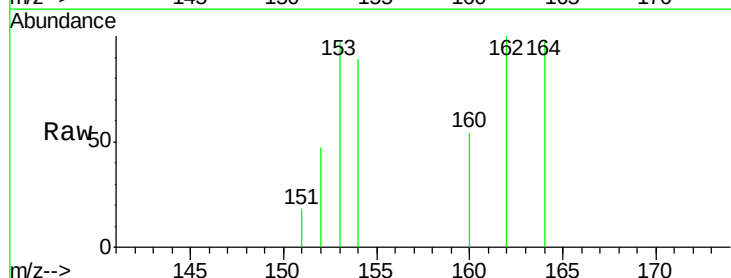
RT: 14.50 min Scan# 826

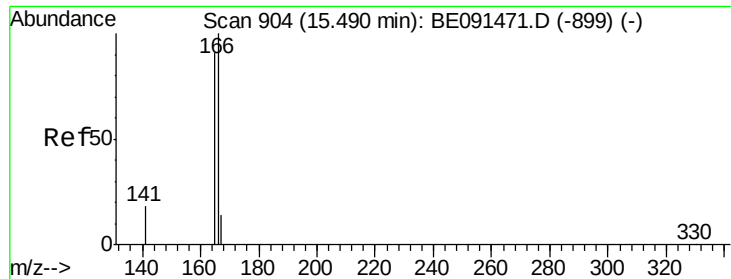
Delta R.T. 0.00 min

Lab File: BE091487.D

Acq: 18 Mar 2016 16:31

Tgt Ion:	154	Resp:	1837
Ion Ratio	Lower	Upper	
154	100		
153	118.4	87.3	130.9
152	57.1	42.9	64.3





#15

Fluorene

Concen: 0.04 ng

RT: 15.48 min Scan# 903

Delta R.T. -0.01 min

Lab File: BE091487.D

Acq: 18 Mar 2016 16:31

Instrument :

BNA_E

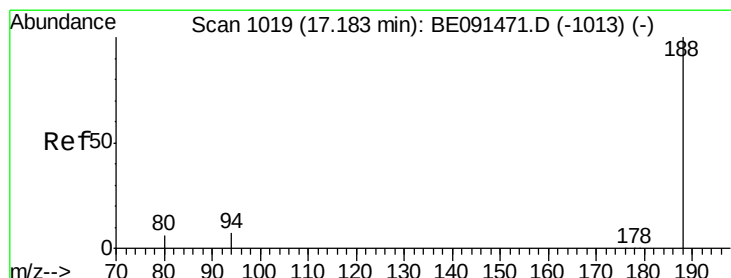
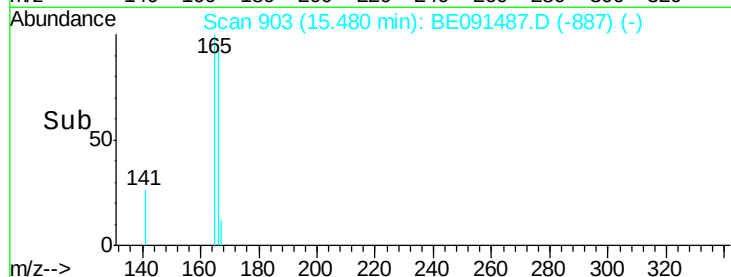
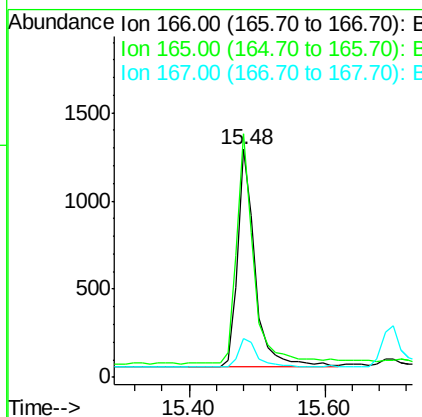
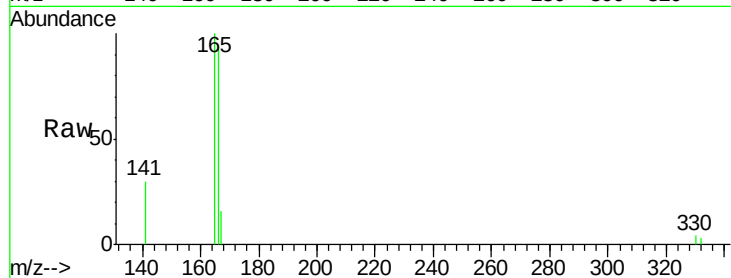
ClientSampleId :

MDL-07-W

Tgt Ion:	166	Resp:	2249
Ion Ratio	Lower	Upper	
166	100		
165	104.9	79.2	118.8
167	13.7	10.8	16.2

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#16

Phenanthrene-d10

Concen: 5.00 ng

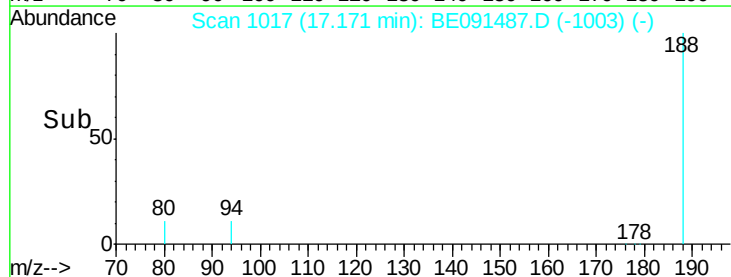
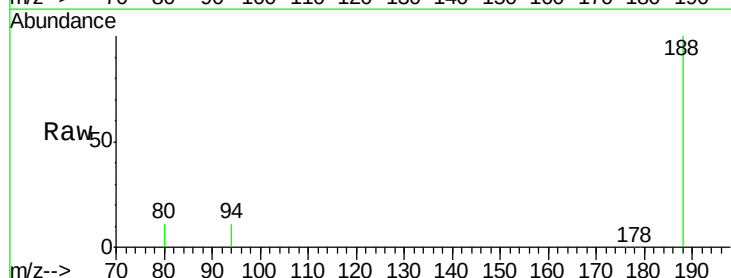
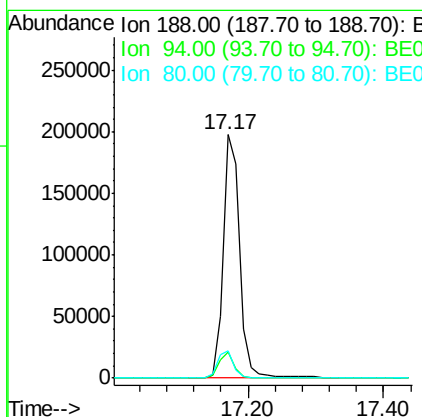
RT: 17.17 min Scan# 1017

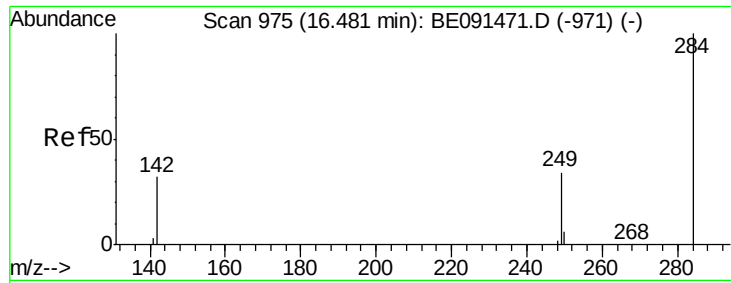
Delta R.T. -0.01 min

Lab File: BE091487.D

Acq: 18 Mar 2016 16:31

Tgt Ion:	188	Resp:	338330
Ion Ratio	Lower	Upper	
188	100		
94	10.8	5.4	8.2#
80	11.0	5.0	7.4#





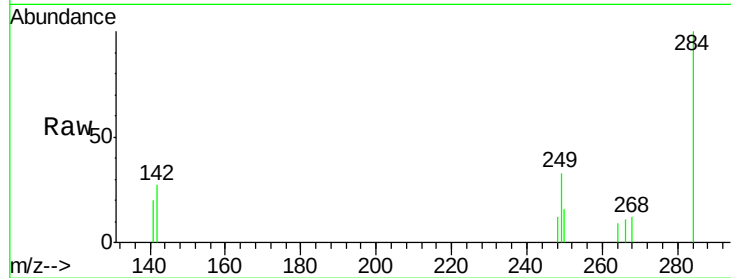
#17
Hexachlorobenzene
Concen: 0.05 ng
RT: 16.48 min Scan# 974
Delta R.T. -0.00 min
Lab File: BE091487.D
Acq: 18 Mar 2016 16:31

Instrument :
BNA_E
ClientSampleId :
MDL-07-W

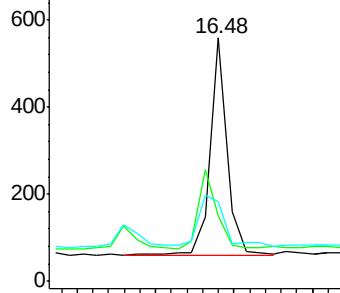
Tgt Ion	Ratio	Lower	Upper
284	100		
142	40.7	31.0	46.4
249	35.0	25.8	38.8

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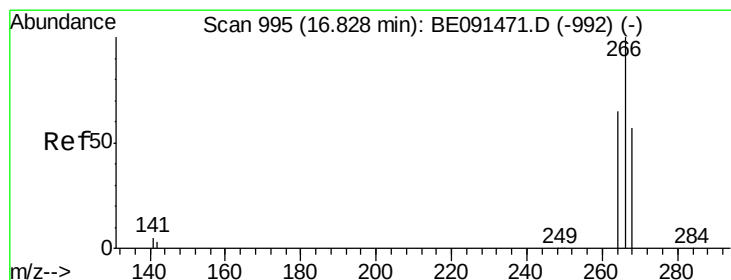
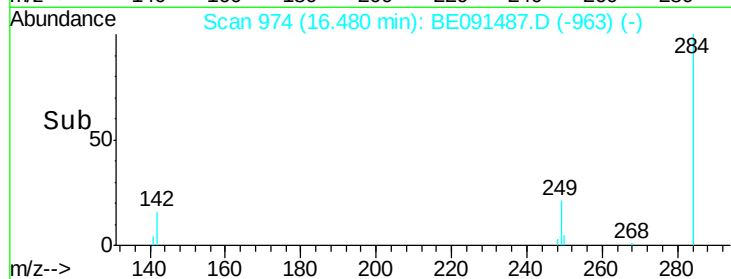
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Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

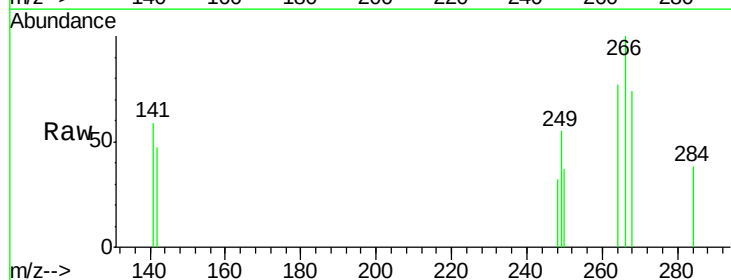


Time-->

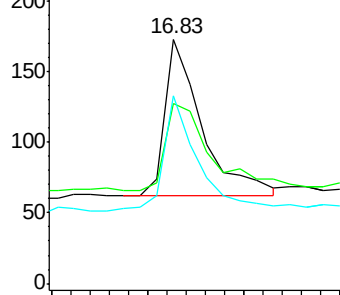


#18
Pentachlorophenol
Concen: 0.24 ng
RT: 16.83 min Scan# 994
Delta R.T. -0.00 min
Lab File: BE091487.D
Acq: 18 Mar 2016 16:31

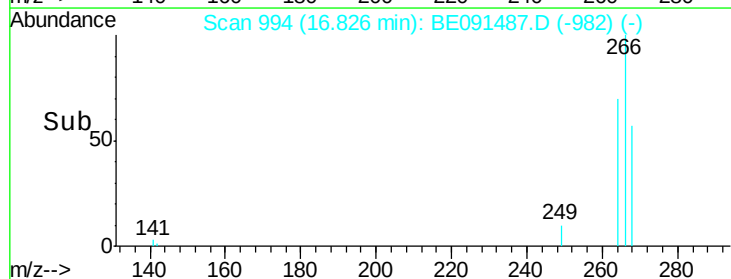
Tgt Ion	Ratio	Lower	Upper
266	100		
268	74.0	48.2	72.2#
264	76.9	52.1	78.1

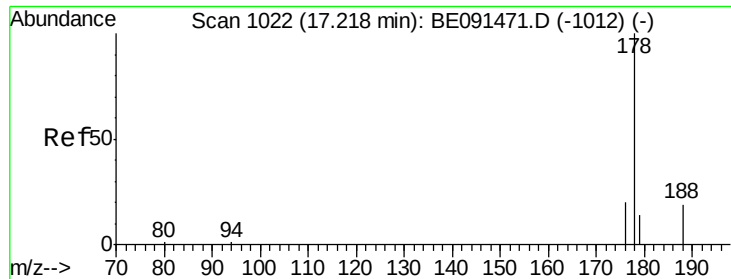


Abundance Ion 265.70 (265.40 to 266.40): E
Ion 268.00 (267.70 to 268.70): E
Ion 264.00 (263.70 to 264.70): E



Time-->





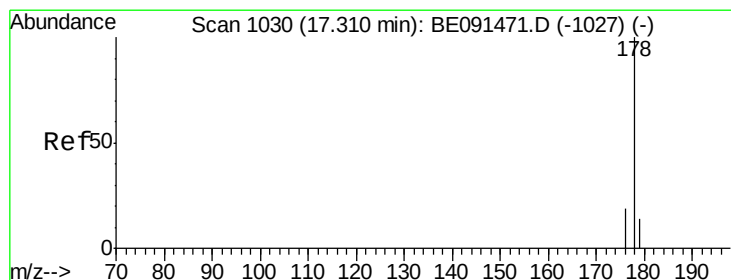
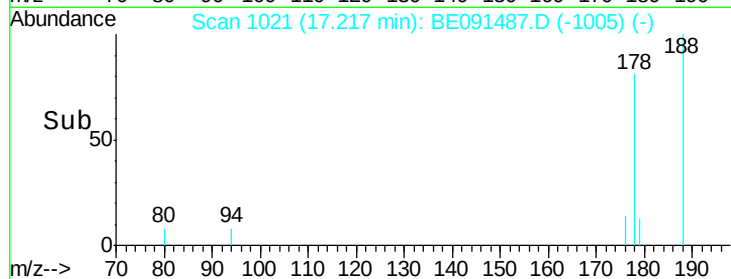
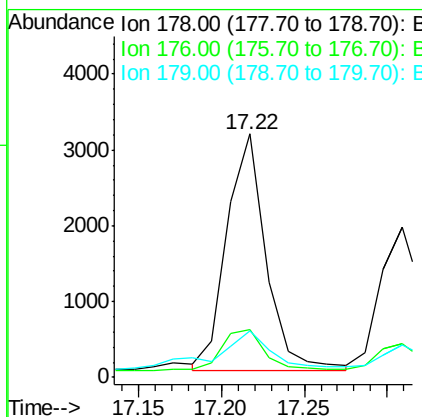
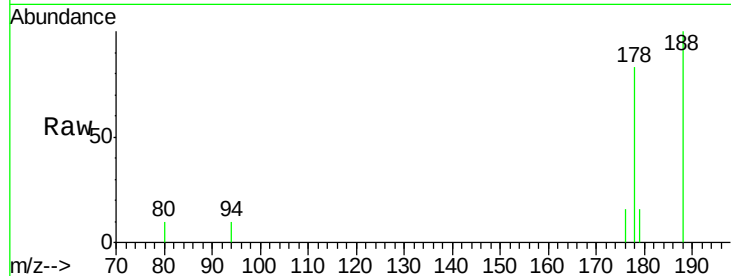
#19
Phenanthrene
Concen: 0.05 ng m
RT: 17.22 min Scan# 1021
Delta R.T. -0.00 min
Lab File: BE091487.D
Acq: 18 Mar 2016 16:31

Instrument :
BNA_E
ClientSampleId :
MDL-07-W

Tgt Ion	Ratio	Lower	Upper
178	100		
176	11.8	15.5	23.3#
179	9.4	13.1	19.7#

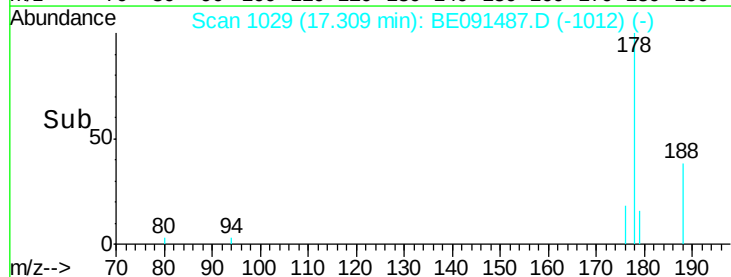
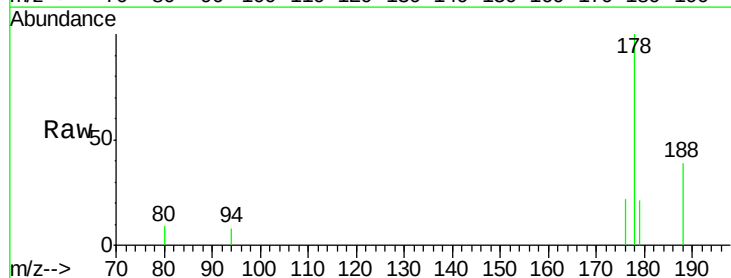
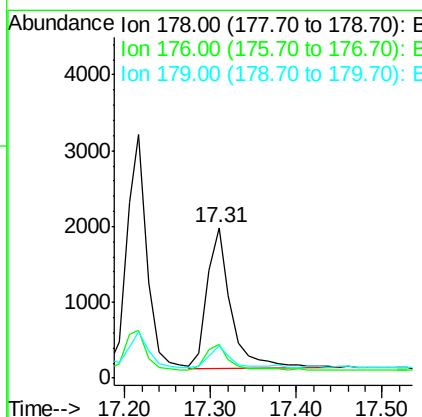
Manual Integrations
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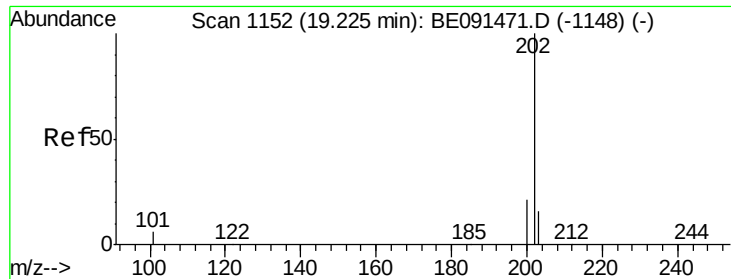
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#20
Anthracene
Concen: 0.04 ng
RT: 17.31 min Scan# 1029
Delta R.T. -0.00 min
Lab File: BE091487.D
Acq: 18 Mar 2016 16:31

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.9	22.3
179	14.4	12.2	18.4





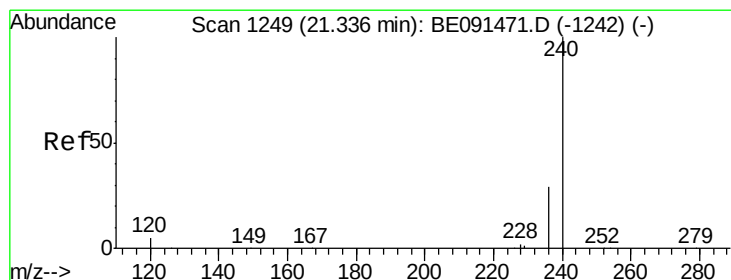
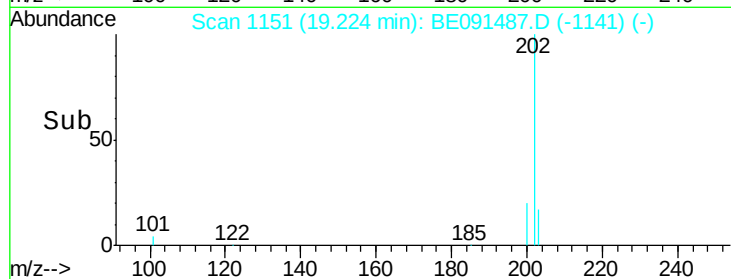
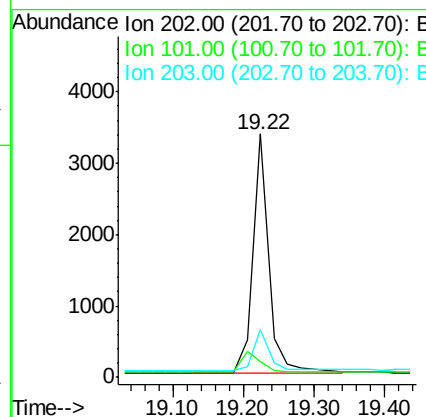
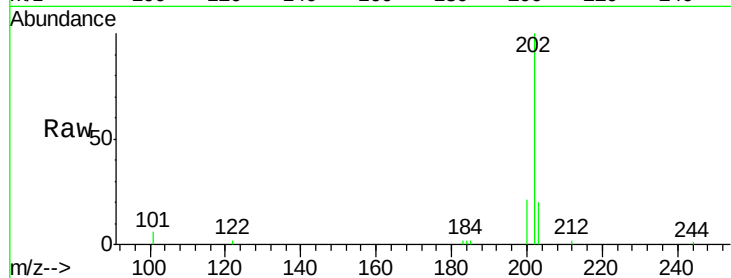
#21
Fluoranthene
Concen: 0.05 ng
RT: 19.22 min Scan# 1151
Delta R.T. -0.00 min
Lab File: BE091487.D
Acq: 18 Mar 2016 16:31

Instrument :
BNA_E
ClientSampleId :
MDL-07-W

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.4	8.3	12.5
203	18.5	13.9	20.9

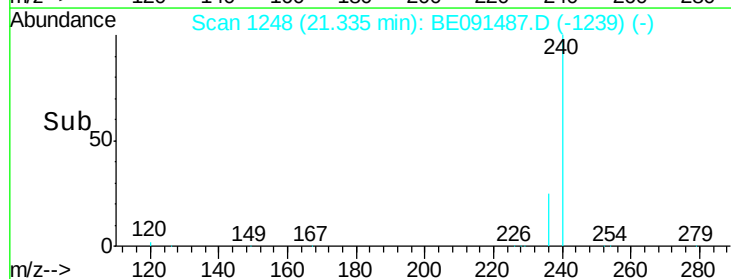
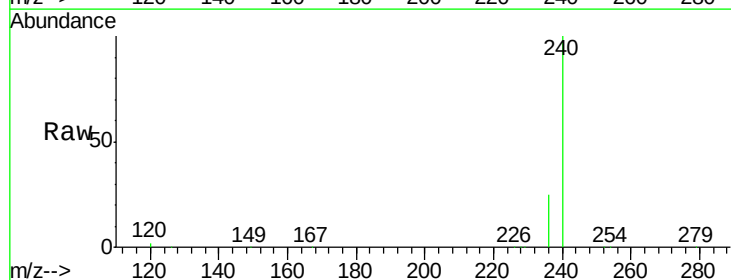
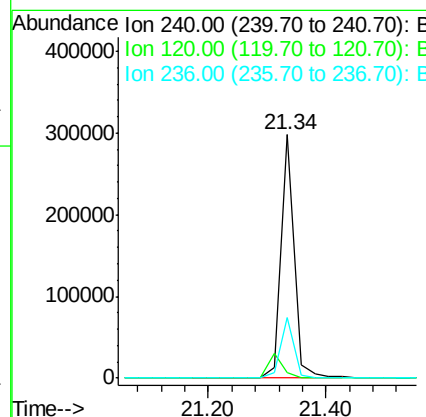
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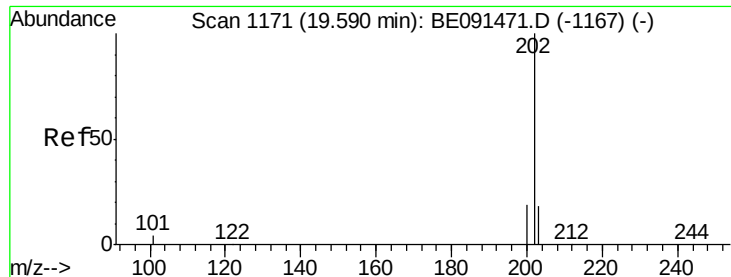
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#22
Chrysene-d12
Concen: 5.00 ng
RT: 21.34 min Scan# 1248
Delta R.T. -0.00 min
Lab File: BE091487.D
Acq: 18 Mar 2016 16:31

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





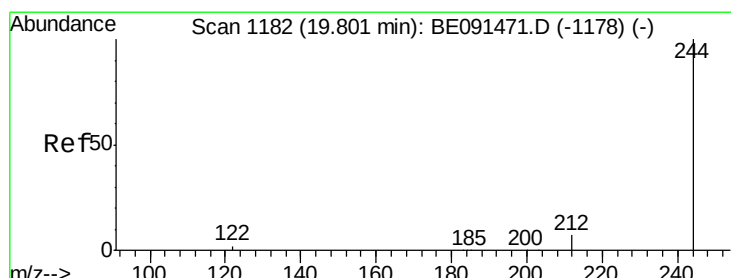
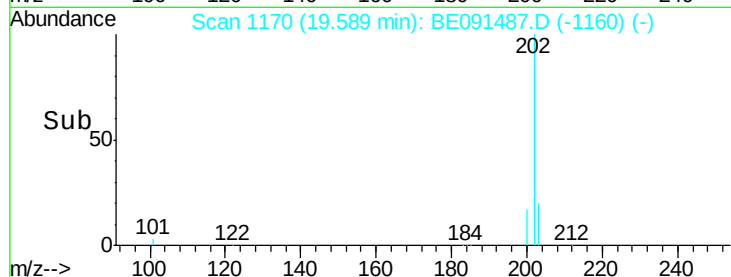
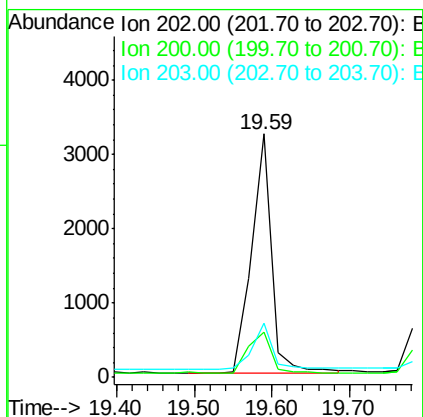
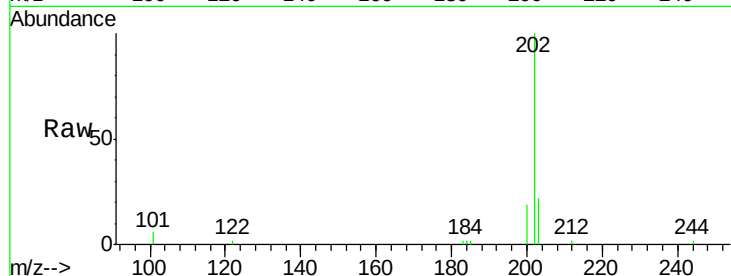
#23
Pyrene
Concen: 0.05 ng
RT: 19.59 min Scan# 1170
Delta R.T. -0.00 min
Lab File: BE091487.D
Acq: 18 Mar 2016 16:31

Instrument :
BNA_E
ClientSampleId :
MDL-07-W

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	20.2	16.4	24.6
203	21.4	14.6	21.8

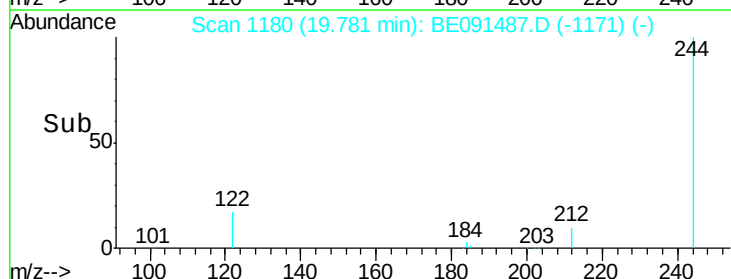
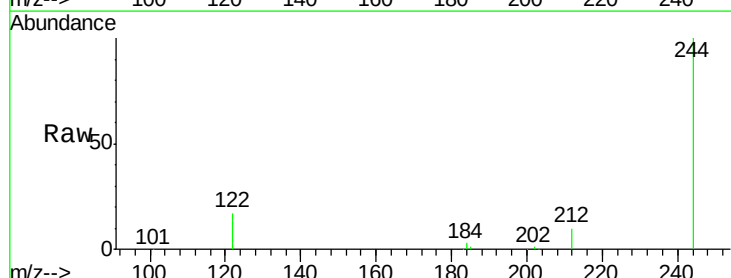
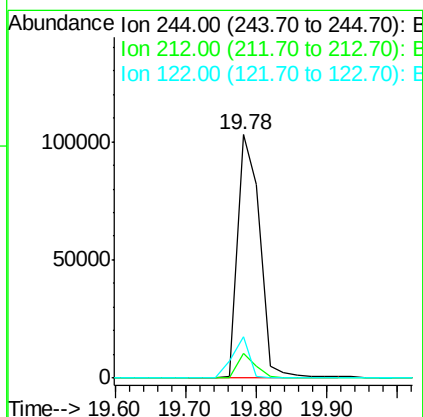
Manual Integrations
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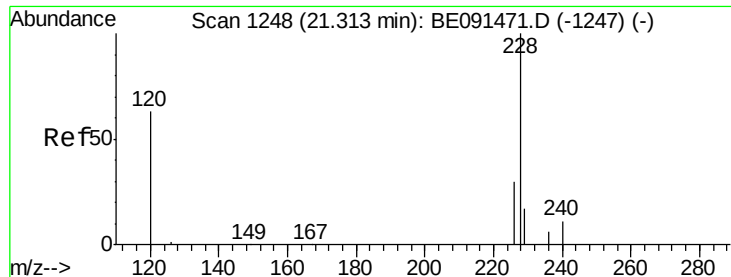
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#24
Terphenyl-d14
Concen: 4.04 ng
RT: 19.78 min Scan# 1180
Delta R.T. -0.02 min
Lab File: BE091487.D
Acq: 18 Mar 2016 16:31

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	10.3	5.8	8.8#
122	17.2	1.8	2.8#





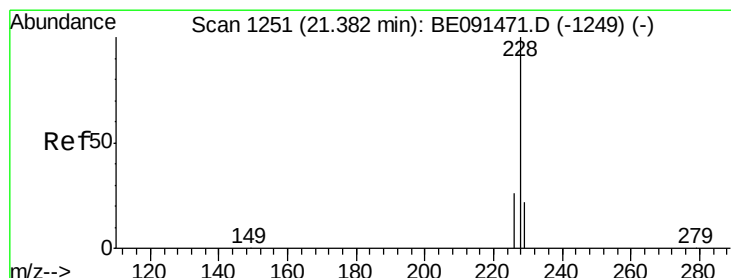
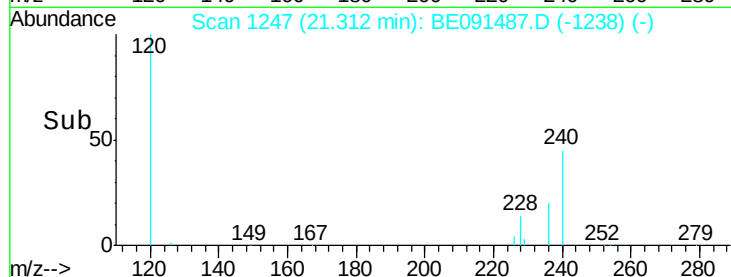
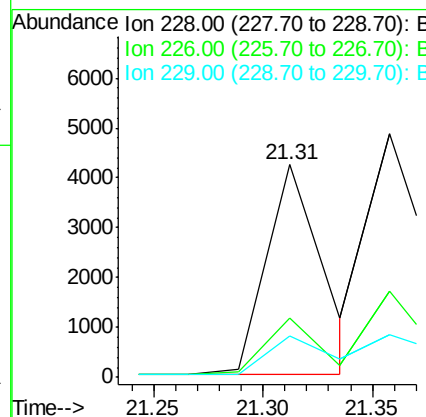
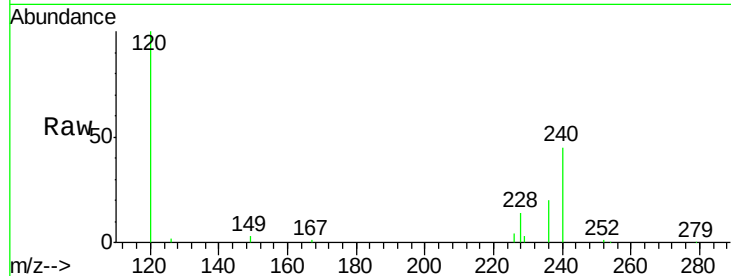
#25
Benzo(a)anthracene
Concen: 0.06 ng m
RT: 21.31 min Scan# 1247
Delta R.T. -0.00 min
Lab File: BE091487.D
Acq: 18 Mar 2016 16:31

Instrument :
BNA_E
ClientSampled :
MDL-07-W

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.8	24.0	36.0
229	19.6	13.8	20.6

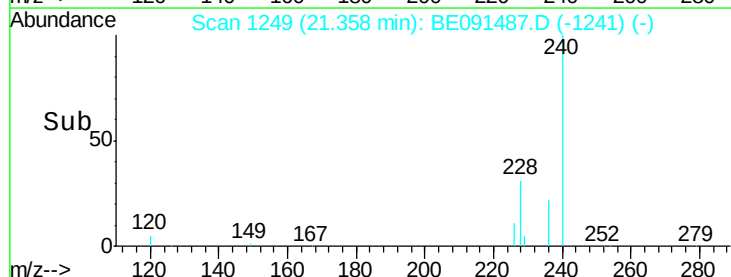
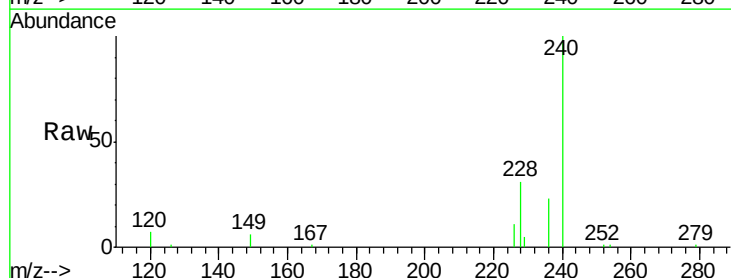
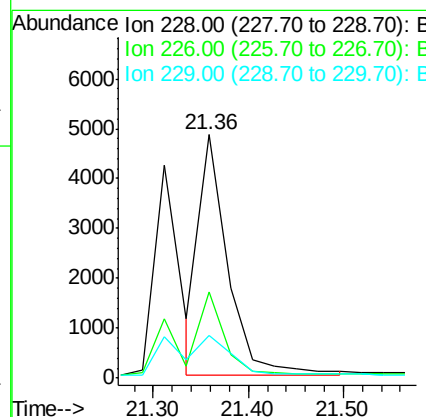
Manual Integrations
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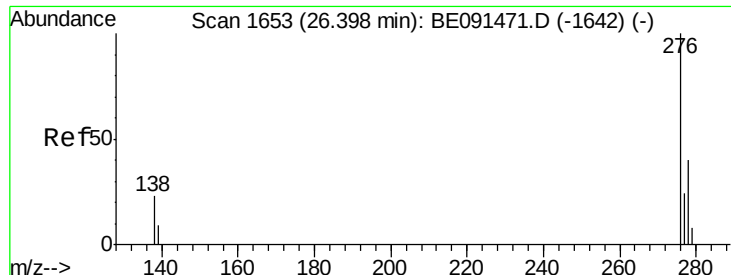
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#26
Chrysene
Concen: 0.08 ng m
RT: 21.36 min Scan# 1249
Delta R.T. -0.02 min
Lab File: BE091487.D
Acq: 18 Mar 2016 16:31

Tgt Ion	Ratio	Lower	Upper
228	100		
226	35.5	18.9	28.3#
229	17.8	19.1	28.7#





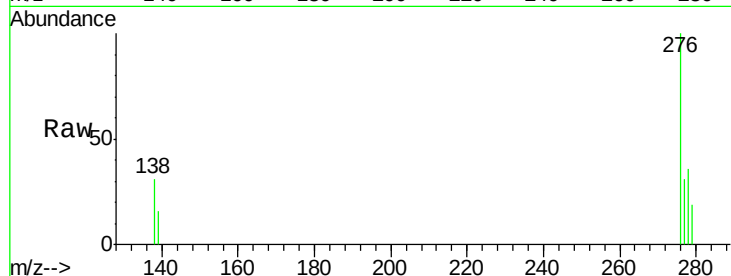
#27
Indeno(1,2,3-cd)pyrene
Concen: 0.04 ng
RT: 26.39 min Scan# 1651
Delta R.T. -0.01 min
Lab File: BE091487.D
Acq: 18 Mar 2016 16:31

Instrument :
BNA_E
ClientSampleId :
MDL-07-W

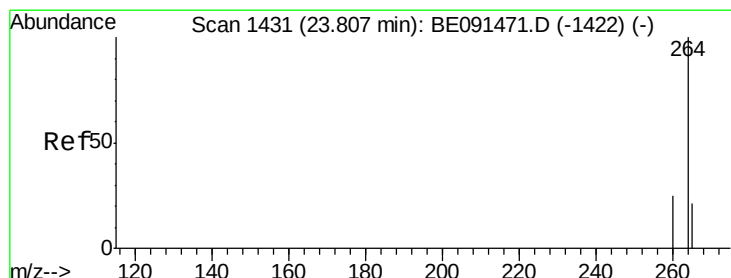
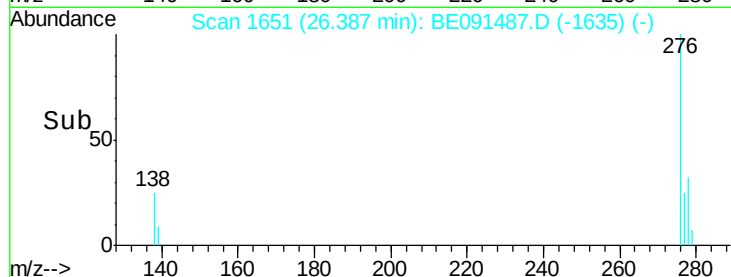
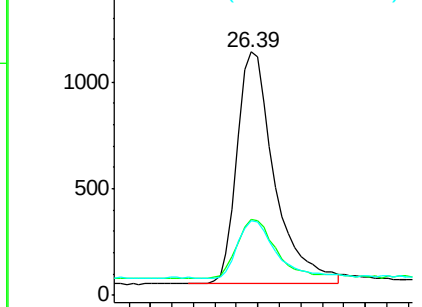
Tgt Ion	Ratio	Lower	Upper
276	100		
138	27.0	20.2	30.4
277	25.0	19.8	29.8

Manual Integrations
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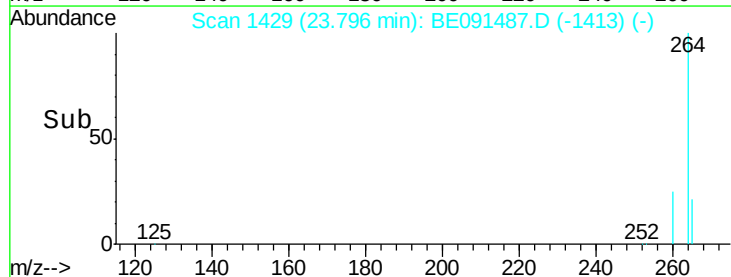
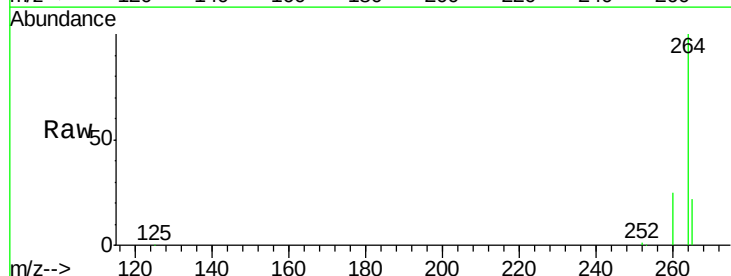
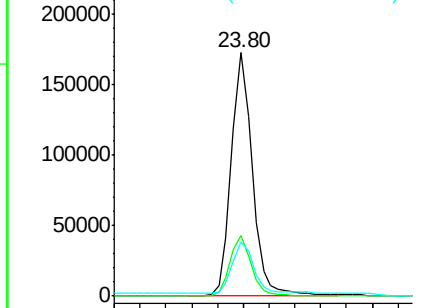
Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

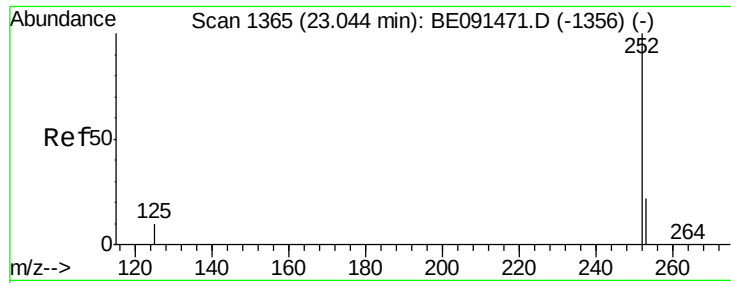


#28
Perylene-d12
Concen: 5.00 ng
RT: 23.80 min Scan# 1429
Delta R.T. -0.01 min
Lab File: BE091487.D
Acq: 18 Mar 2016 16:31

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.1	20.1	30.1
265	22.5	18.3	27.5

Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





#29

Benzo(b)fluoranthene

Concen: 0.07 ng

RT: 23.03 min Scan# 1363

Delta R.T. -0.01 min

Lab File: BE091487.D

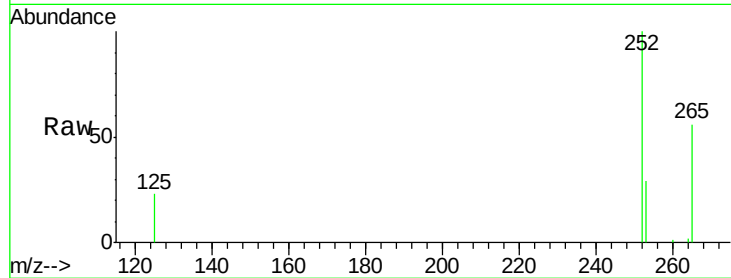
Acq: 18 Mar 2016 16:31

Instrument :

BNA_E

ClientSampleId :

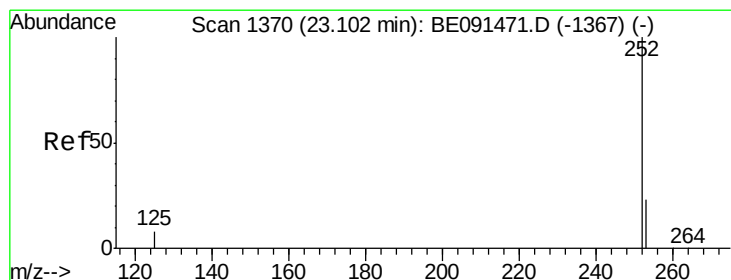
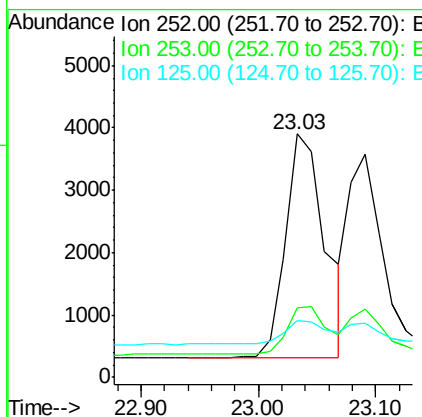
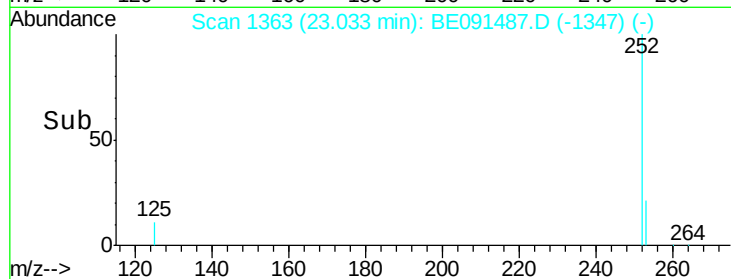
MDL-07-W



Tgt Ion:	252	Resp:	8400
Ion Ratio	Lower	Upper	
252	100		
253	28.6	18.7	28.1#
125	23.4	9.8	14.6#

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#30

Benzo(k)fluoranthene

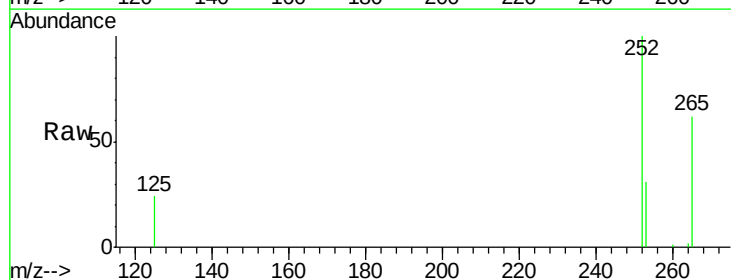
Concen: 0.05 ng

RT: 23.09 min Scan# 1368

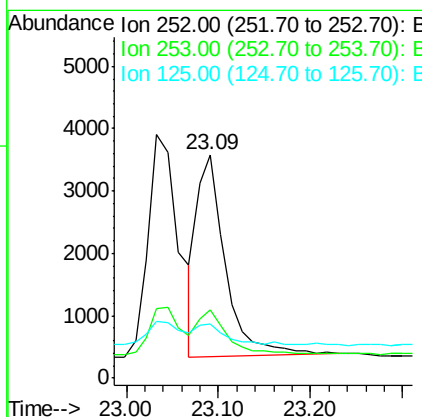
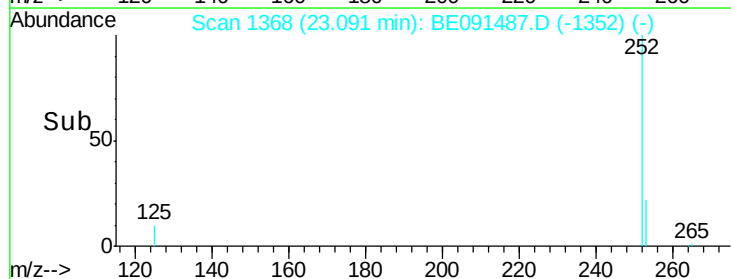
Delta R.T. -0.01 min

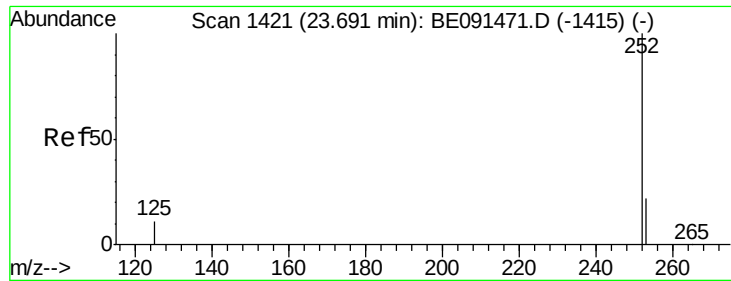
Lab File: BE091487.D

Acq: 18 Mar 2016 16:31



Tgt Ion:	252	Resp:	6927
Ion Ratio	Lower	Upper	
252	100		
253	30.7	20.2	30.4#
125	24.1	9.4	14.2#





#31

Benzo(a)pyrene

Concen: 0.05 ng

RT: 23.68 min Scan# 1419

Delta R.T. -0.01 min

Lab File: BE091487.D

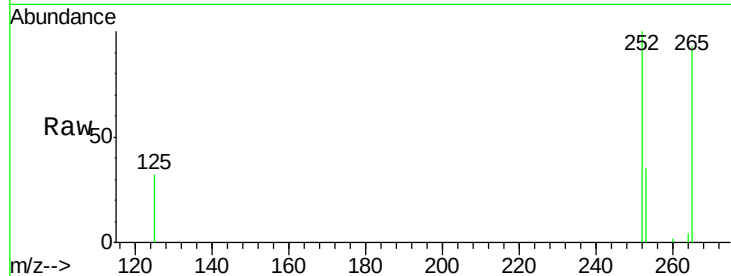
Acq: 18 Mar 2016 16:31

Instrument :

BNA_E

ClientSampleId :

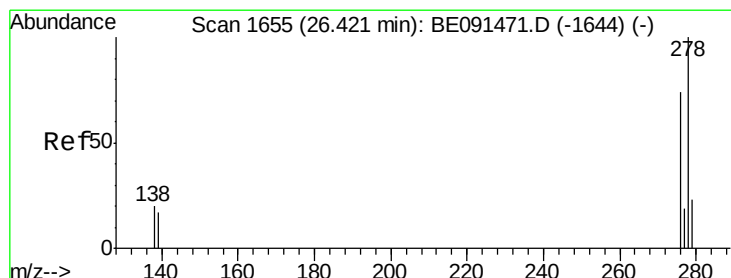
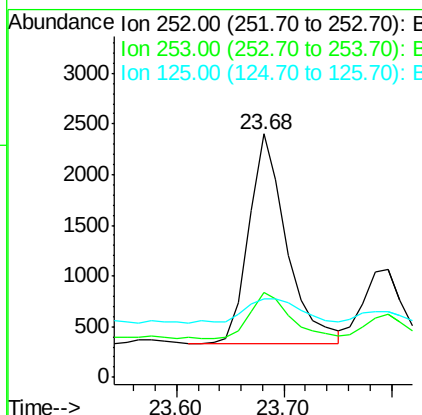
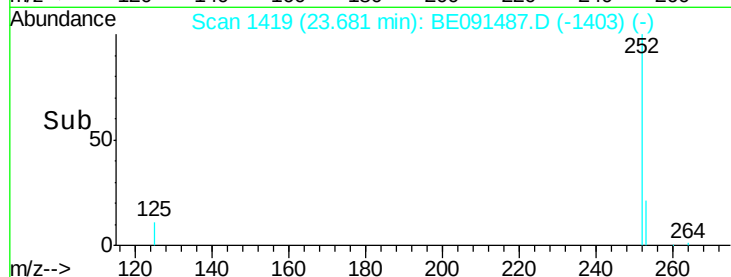
MDL-07-W



Tgt Ion	Ratio	Lower	Upper
252	100		
253	34.7	19.4	29.0#
125	32.0	11.4	17.2#

Manual Integrations
APPROVED

UMANGI
3/22/2016 10:48:41 AM



#32

Dibenzo(a,h)anthracene

Concen: 0.04 ng

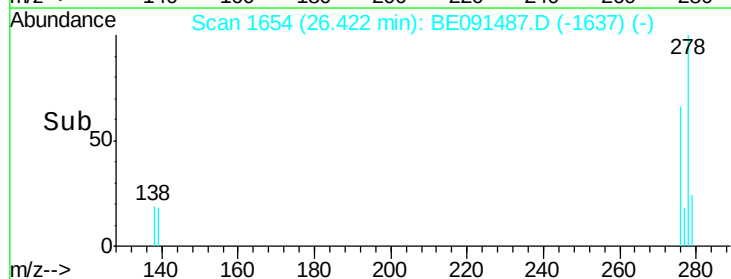
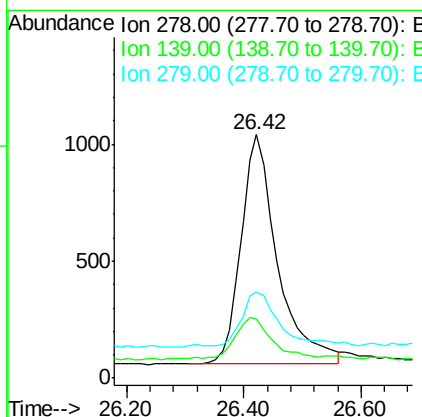
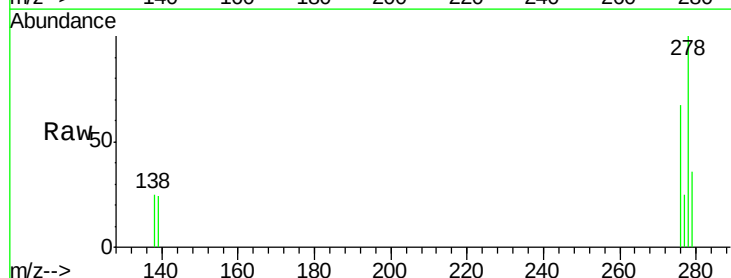
RT: 26.42 min Scan# 1654

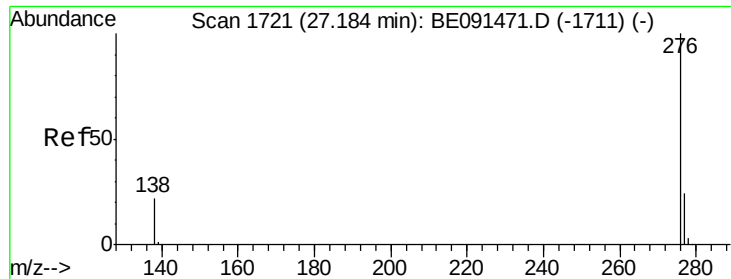
Delta R.T. 0.00 min

Lab File: BE091487.D

Acq: 18 Mar 2016 16:31

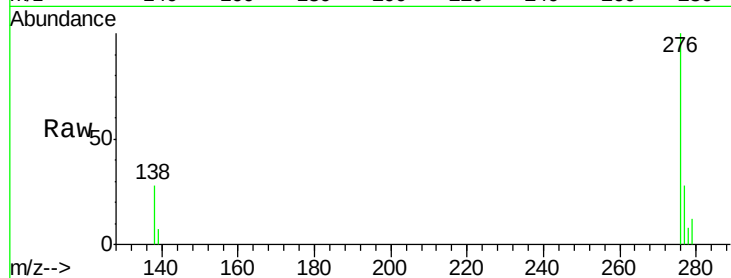
Tgt Ion	Ratio	Lower	Upper
278	100		
139	24.3	14.2	21.4#
279	35.5	19.6	29.4#





#33
 Benzo(g,h,i)perylene
 Concen: 0.04 ng
 RT: 27.17 min Scan# 1719
 Delta R.T. -0.01 min
 Lab File: BE091487.D
 Acq: 18 Mar 2016 16:31

Instrument :
 BNA_E
 ClientSampleId :
 MDL-07-W



Tgt	Ion	Ratio	Resp	Lower	Upper
276	100		4932		
277	28.3	19.4		29.2	
138	27.8	18.2		27.4#	

Manual Integrations
 APPROVED

UMANGI
 3/22/2016 10:48:41 AM

