

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021815\
 Data File : BE089622.D
 Acq On : 18 Feb 2015 17:34
 Operator : TP/IZ
 Sample : MDL-02-W
 Misc : MDL-WATER-0.1/0.2
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-02-W

Manual Integrations
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Quant Time: Feb 19 04:55:49 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE021815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 18 13:01:39 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	37901	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	150547	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	74782	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	144880	5.00	ng	0.00
19) Chrysene-d12	23.66	240	131810	5.00	ng	0.00
25) Perylene-d12	25.34	264	106543	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	69972	10.69	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	194307	9.70	ng	0.00
21) Terphenyl-d14	22.30	244	231980	12.24	ng	0.00

Target Compounds						Qvalue
2) 1,4-Dioxane	2.73	88	285	0.06	ng	# 83
6) Naphthalene	12.29	128	2498	0.07	ng	# 93
7) 2-Methylnaphthalene	13.95	142	1374	0.07	ng	99
10) Acenaphthylene	16.07	152	7309	0.06	ng	99
11) Acenaphthene	16.50	154	1385	0.07	ng	90
12) Fluorene	17.74	166	1536	0.07	ng	97
14) Hexachlorobenzene	19.00	284	478	0.08	ng	# 89
15) Pentachlorophenol	19.45	266	46	0.02	ng	# 72
16) Phenanthrene	19.82	178	2645	0.07	ng	99
17) Anthracene	19.91	178	1812	0.06	ng	99
18) Fluoranthene	21.72	202	1920	0.06	ng	99
20) Pyrene	22.04	202	2066	0.06	ng	99
22) Benzo(a)anthracene	23.65	228	7107m	0.06	ng	
23) Chrysene	23.69	228	10980	0.08	ng	96
24) Indeno(1,2,3-cd)pyrene	26.74	276	2530	0.20	ng	91
26) Benzo(b)fluoranthene	24.91	252	584	0.29	ng	# 80
27) Benzo(k)fluoranthene	24.94	252	1276m	0.04	ng	
28) Benzo(a)pyrene	25.27	252	591	0.27	ng	# 78
29) Dibenzo(a,h)anthracene	26.77	278	435	0.25	ng	# 59
30) Benzo(g,h,i)perylene	27.16	276	3372	0.17	ng	# 71

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

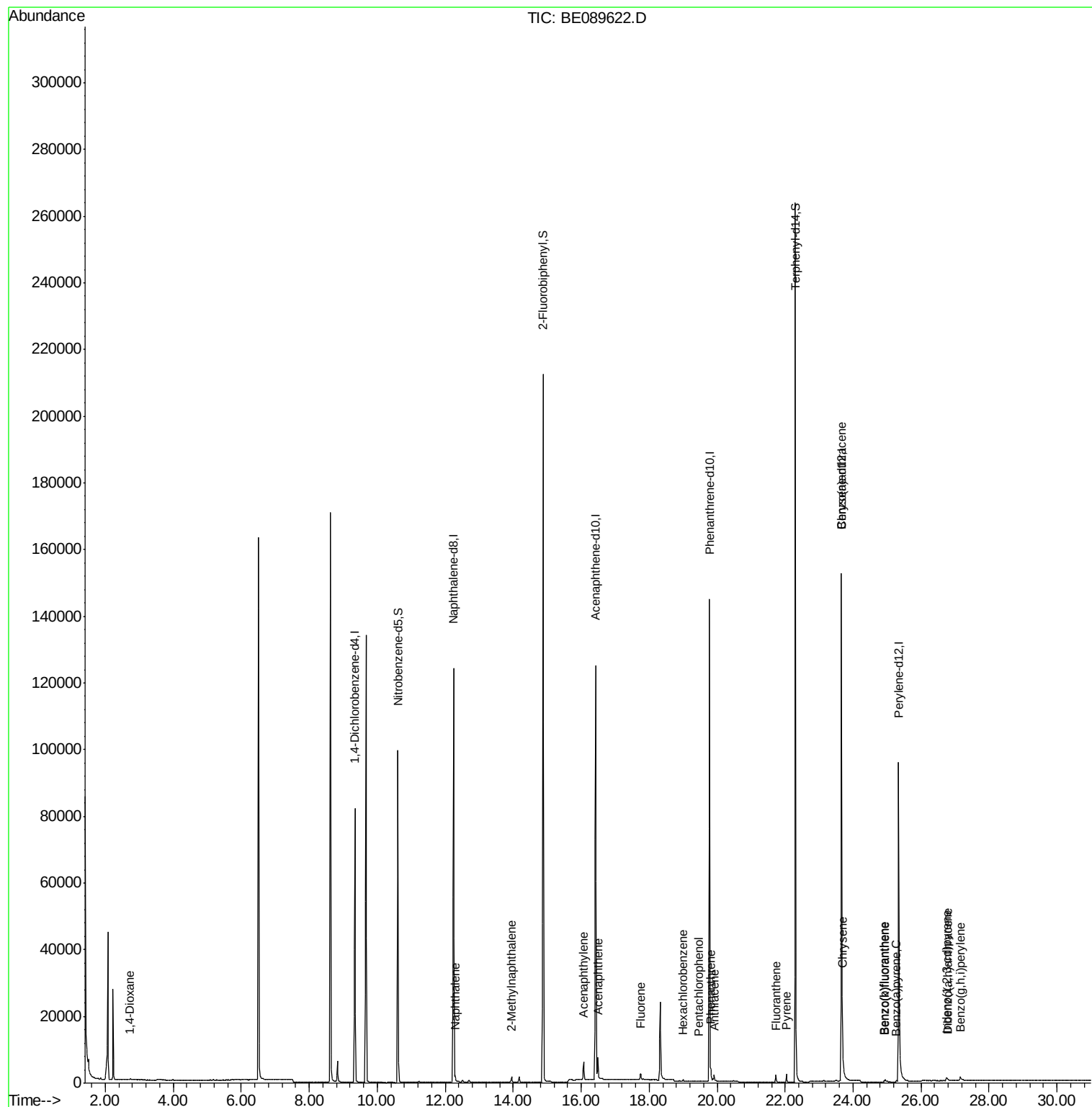
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021815\
Data File : BE089622.D
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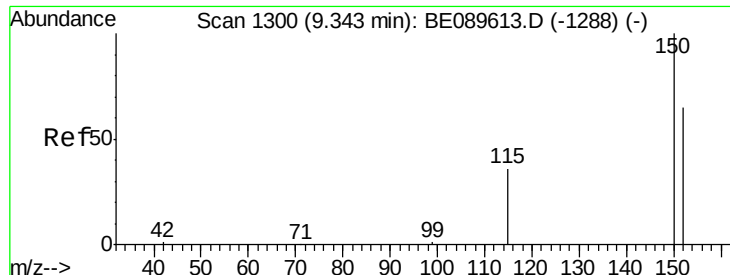
Instrument :
BNA_E
ClientSampleId :
MDL-02-W

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Quant Time: Feb 19 04:55:49 2015
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIMPAH-BE021815.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1300

Delta R.T. -0.00 min

Lab File: BE089622.D

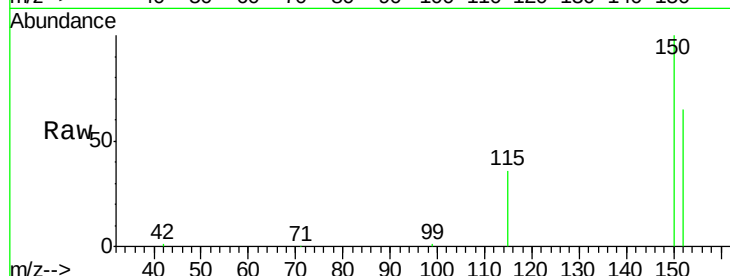
Acq: 18 Feb 2015 17:34

Instrument :

BNA_E

ClientSampleId :

MDL-02-W



Tgt Ion: 152 Resp: 37901

Ion Ratio Lower Upper

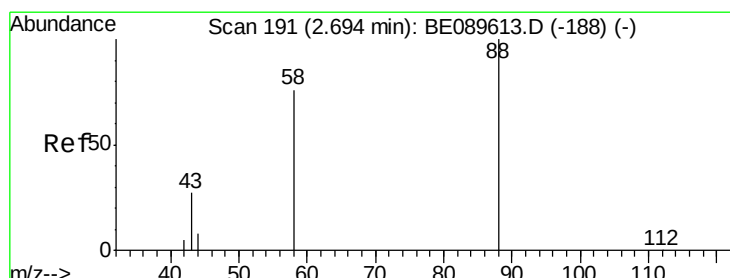
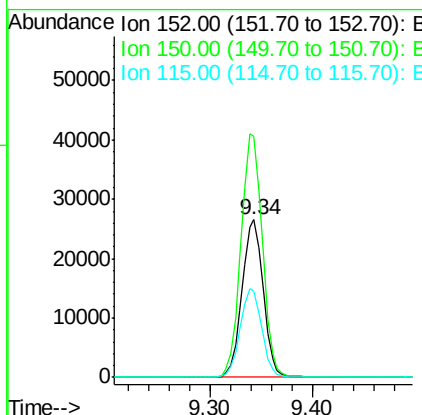
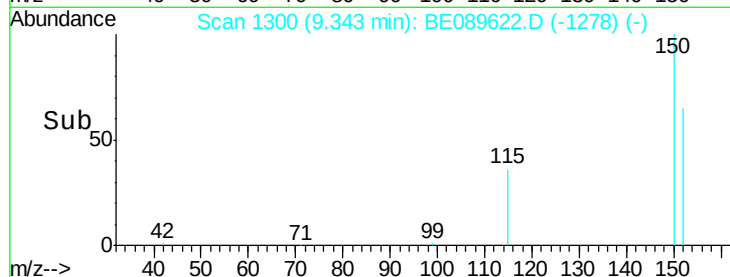
152 100

150 153.2 122.4 183.6

115 54.7 44.2 66.2

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#2

1,4-Dioxane

Concen: 0.06 ng

RT: 2.73 min Scan# 197

Delta R.T. 0.04 min

Lab File: BE089622.D

Acq: 18 Feb 2015 17:34

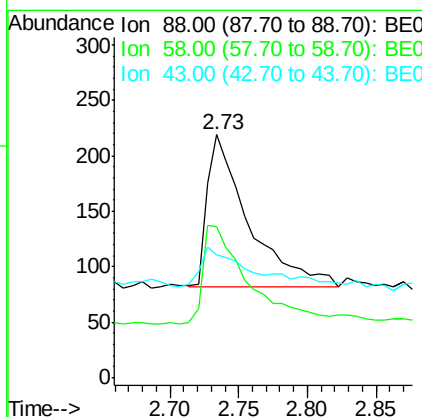
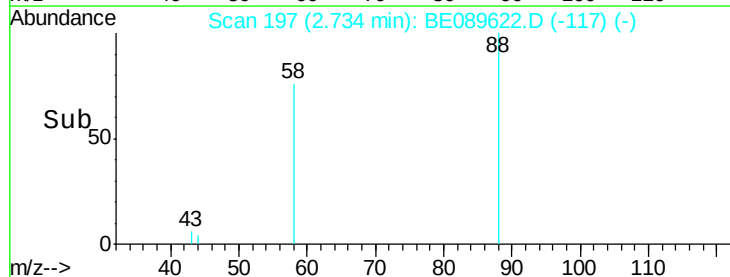
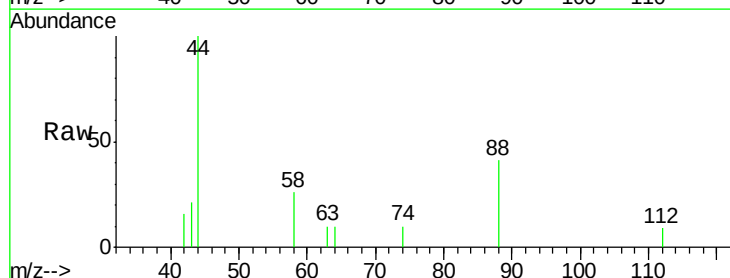
Tgt Ion: 88 Resp: 285

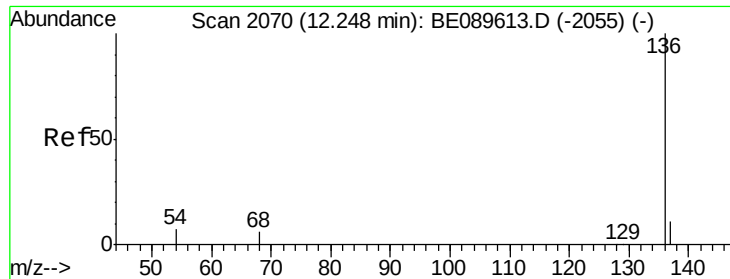
Ion Ratio Lower Upper

88 100

58 71.2 54.6 81.8

43 0.0 20.6 30.8#





#4

Naphthalene-d8

Concen: 5.00 ng

RT: 12.24 min Scan# 2070

Delta R.T. -0.01 min

Lab File: BE089622.D

Acq: 18 Feb 2015 17:34

Instrument :

BNA_E

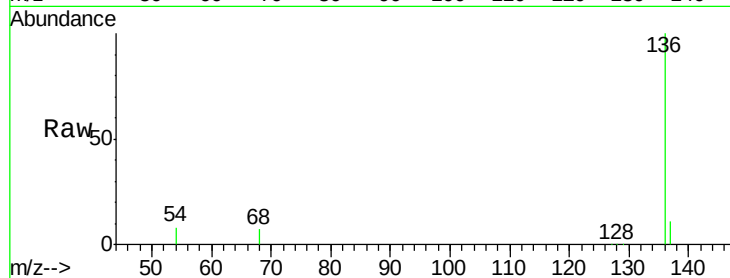
ClientSampleId :

MDL-02-W

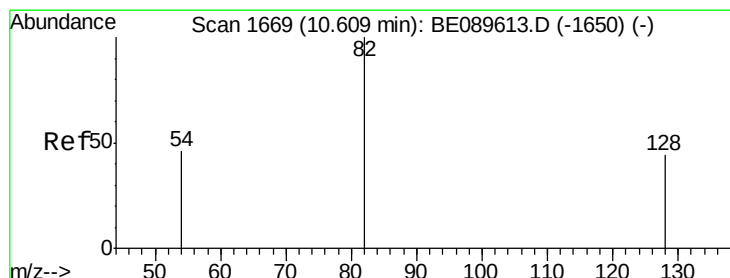
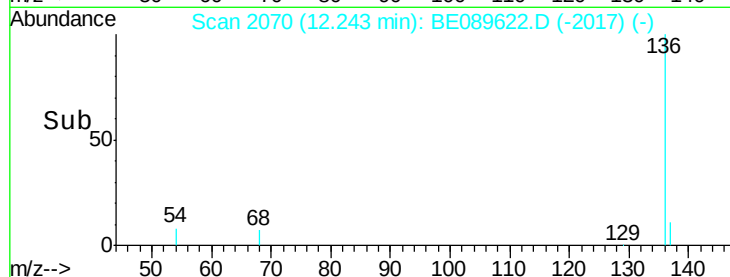
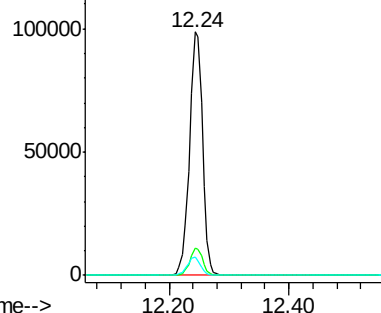
Tgt Ion:	136	Resp:	150547
Ion Ratio	Lower	Upper	
136	100		
137	11.0	8.9	13.3
54	7.8	5.3	7.9

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Abundance Ion 136.00 (135.70 to 136.70): BE089613.D (-2055) (-)



#5

Nitrobenzene-d5

Concen: 10.69 ng

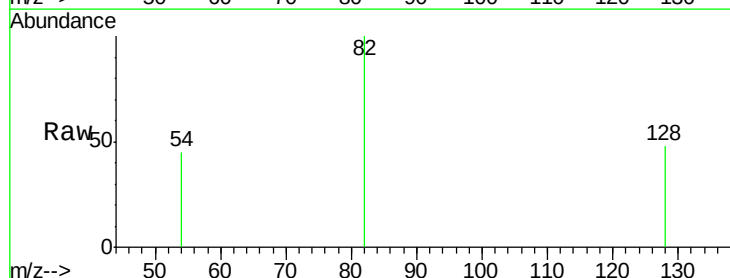
RT: 10.61 min Scan# 1669

Delta R.T. -0.00 min

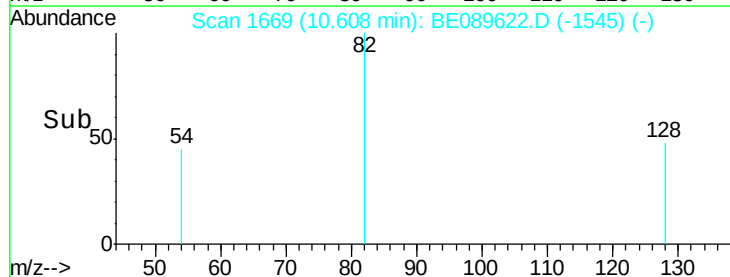
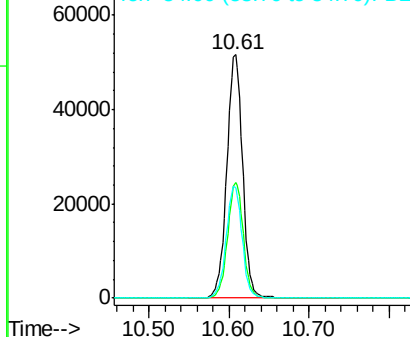
Lab File: BE089622.D

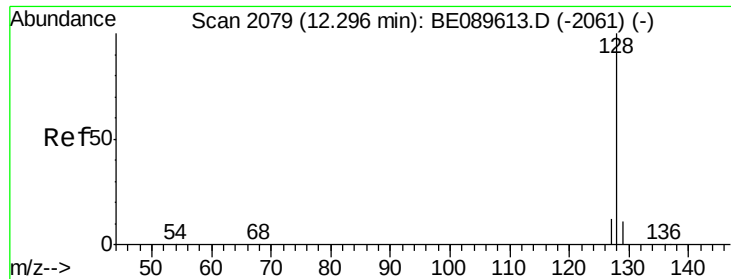
Acq: 18 Feb 2015 17:34

Tgt Ion:	82	Resp:	69972
Ion Ratio	Lower	Upper	
82	100		
128	47.6	35.5	53.3
54	45.3	37.5	56.3



Abundance Ion 82.00 (81.70 to 82.70): BE089613.D (-1650) (-)





#6

Naphthalene

Concen: 0.07 ng

RT: 12.29 min Scan# 2079

Delta R.T. -0.01 min

Lab File: BE089622.D

Acq: 18 Feb 2015 17:34

Instrument :

BNA_E

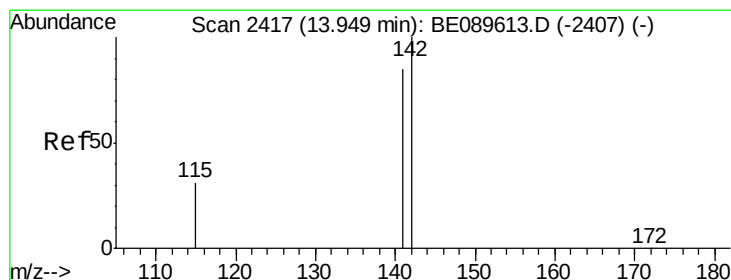
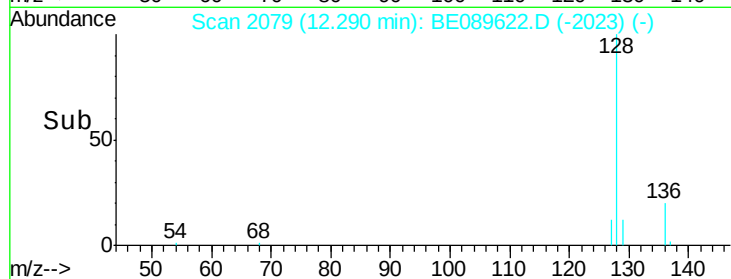
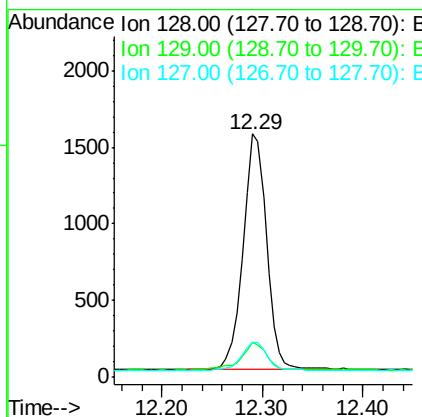
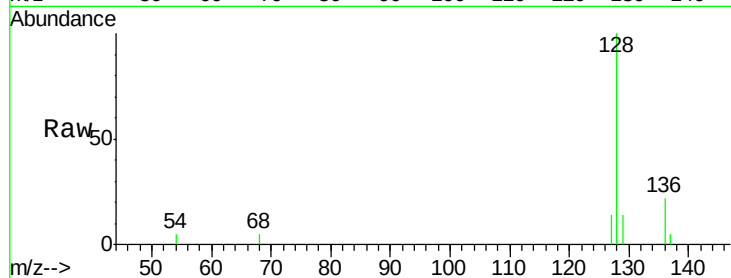
ClientSampleId :

MDL-02-W

Tgt Ion:	128	Resp:	2498
Ion Ratio		Lower	Upper
128	100		
129	14.2	8.9	13.3#
127	14.5	9.8	14.8

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#7

2-Methylnaphthalene

Concen: 0.07 ng

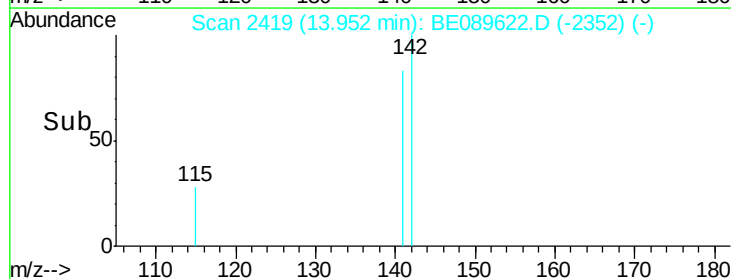
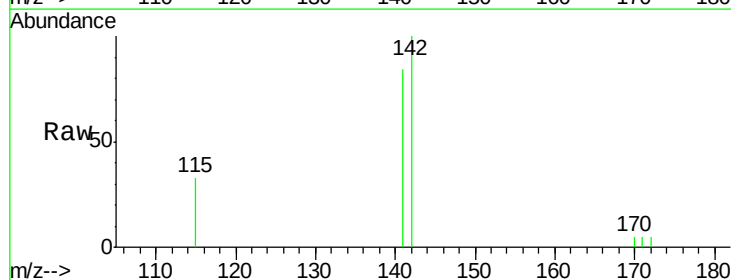
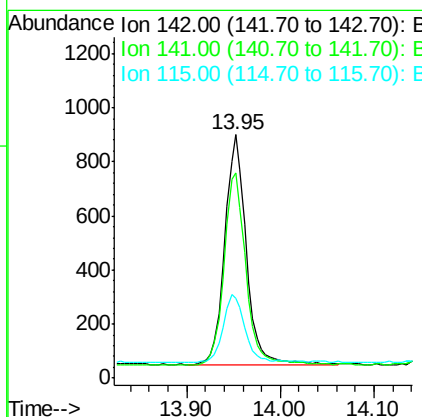
RT: 13.95 min Scan# 2419

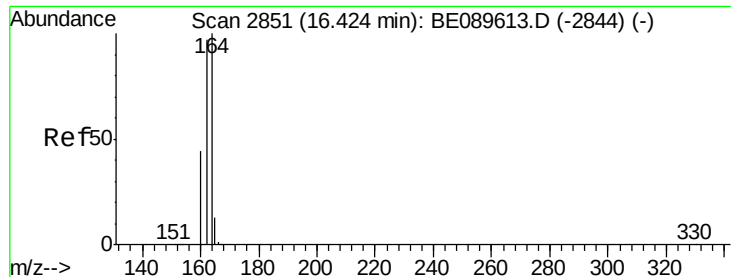
Delta R.T. 0.00 min

Lab File: BE089622.D

Acq: 18 Feb 2015 17:34

Tgt Ion:	142	Resp:	1374
Ion Ratio		Lower	Upper
142	100		
141	84.4	68.3	102.5
115	32.7	25.1	37.7





#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.42 min Scan# 2853

Delta R.T. 0.00 min

Lab File: BE089622.D

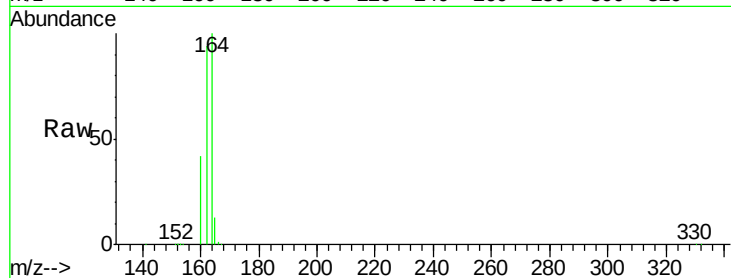
Acq: 18 Feb 2015 17:34

Instrument :

BNA_E

ClientSampleId :

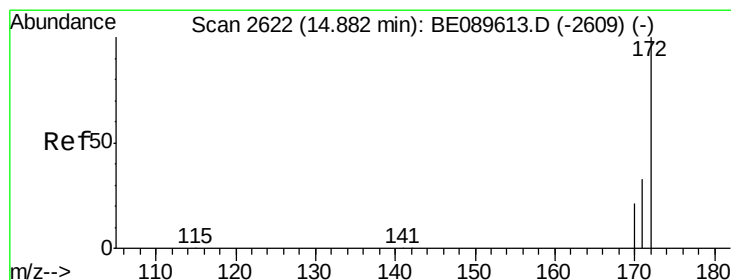
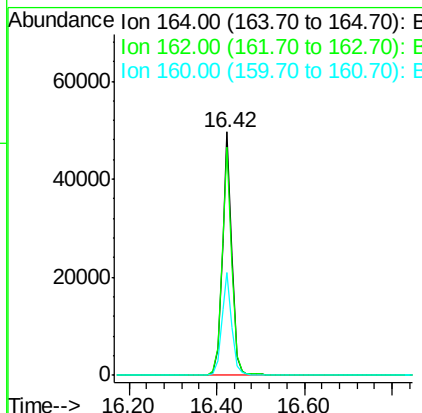
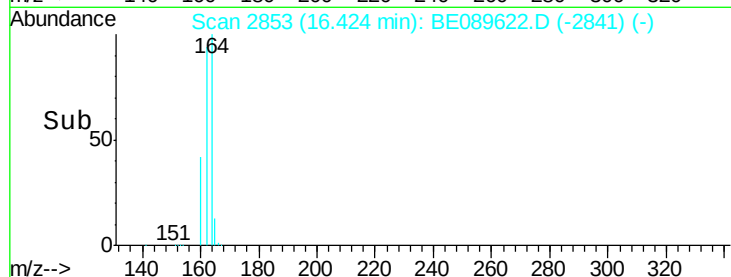
MDL-02-W



Tgt Ion:	164	Resp:	74782
Ion Ratio	Lower	Upper	
164	100		
162	94.0	77.5	116.3
160	42.4	35.5	53.3

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#9

2-Fluorobiphenyl

Concen: 9.70 ng

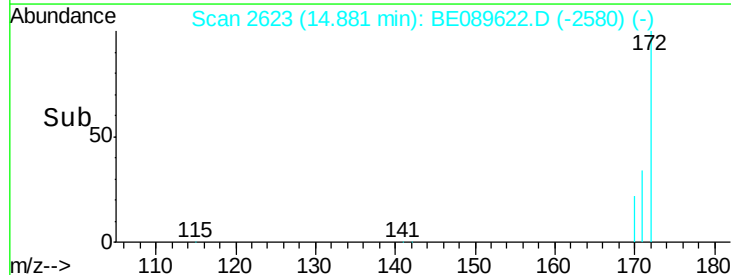
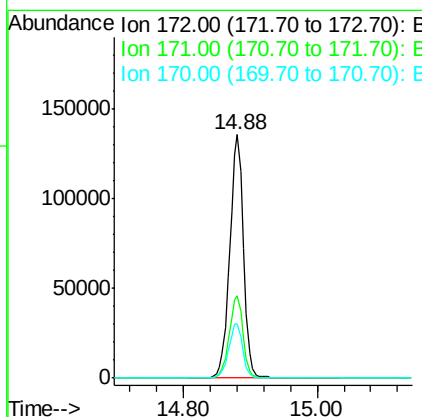
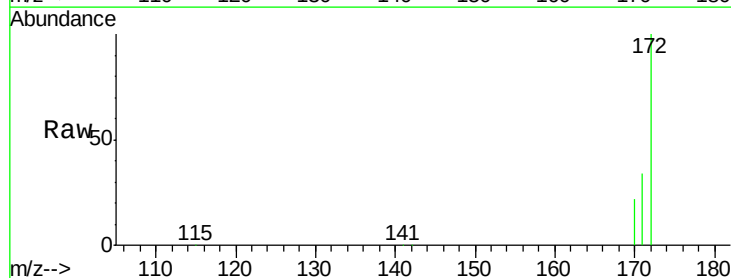
RT: 14.88 min Scan# 2623

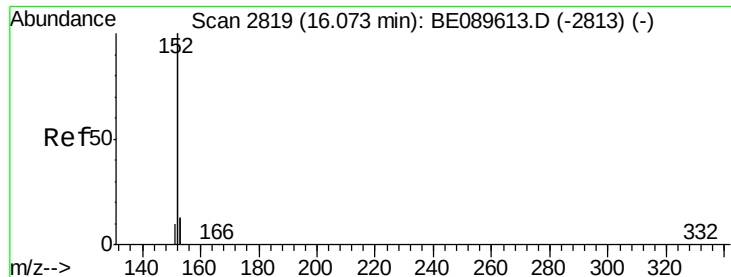
Delta R.T. -0.00 min

Lab File: BE089622.D

Acq: 18 Feb 2015 17:34

Tgt Ion:	172	Resp:	194307
Ion Ratio	Lower	Upper	
172	100		
171	34.0	26.9	40.3
170	22.4	17.4	26.0





#10

Acenaphthylene

Concen: 0.06 ng

RT: 16.07 min Scan# 2821

Delta R.T. 0.00 min

Lab File: BE089622.D

Acq: 18 Feb 2015 17:34

Instrument :

BNA_E

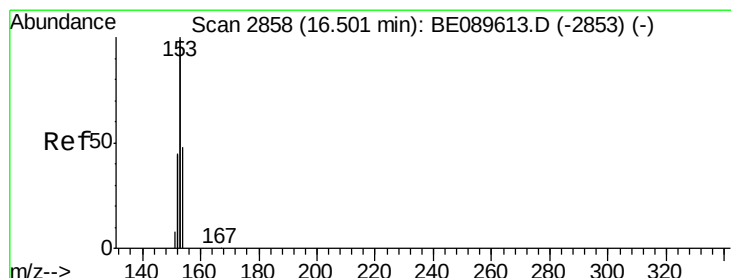
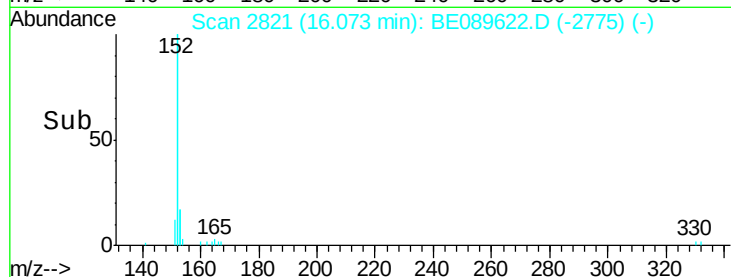
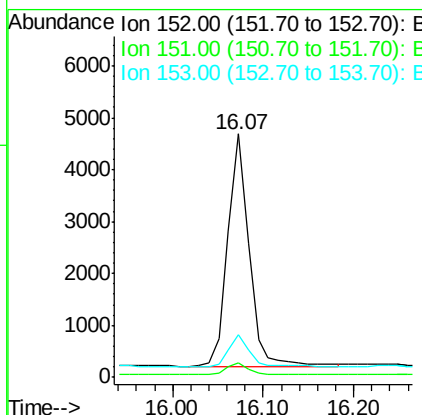
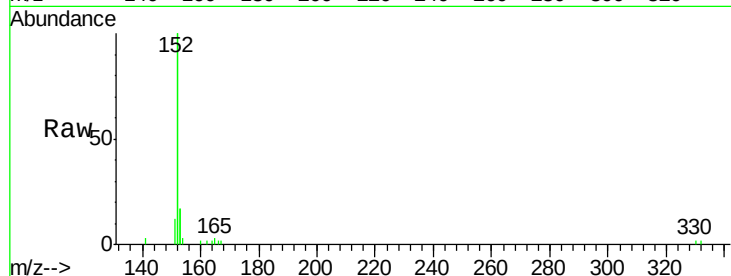
ClientSampleId :

MDL-02-W

Tgt Ion:	152	Resp:	7309
Ion Ratio	Lower	Upper	
152	100		
151	5.3	3.9	5.9
153	13.6	10.5	15.7

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#11

Acenaphthene

Concen: 0.07 ng

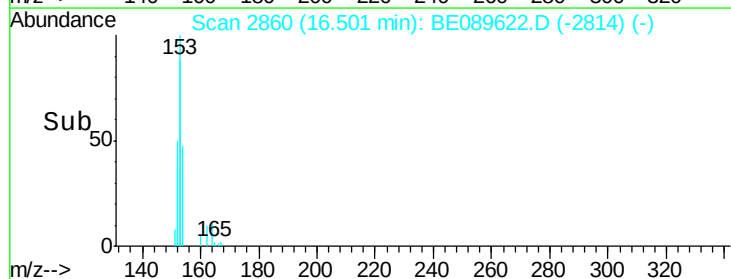
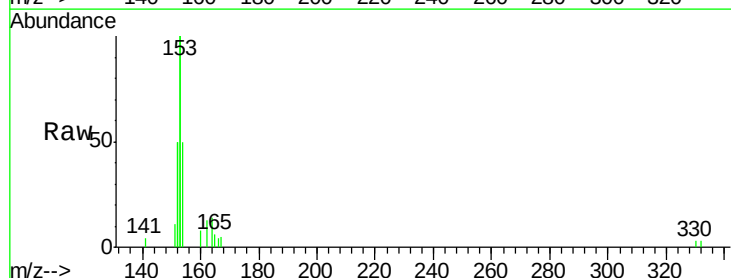
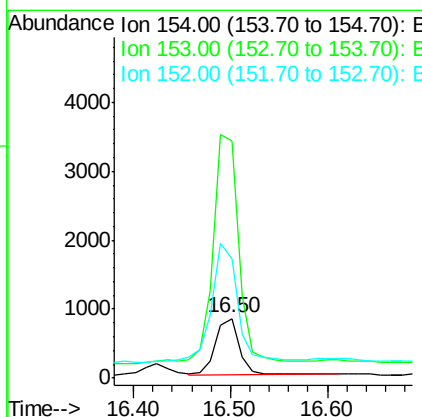
RT: 16.50 min Scan# 2860

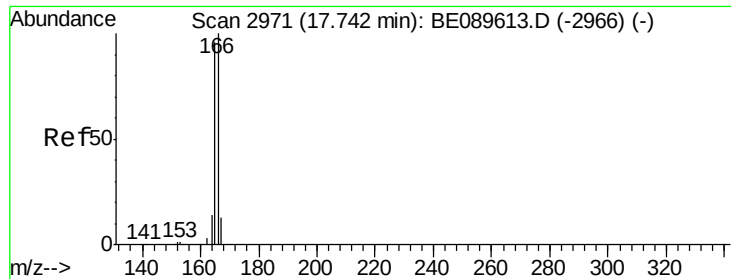
Delta R.T. 0.00 min

Lab File: BE089622.D

Acq: 18 Feb 2015 17:34

Tgt Ion:	154	Resp:	1385
Ion Ratio	Lower	Upper	
154	100		
153	449.7	348.9	523.3
152	237.3	166.6	249.8





#12

Fluorene

Concen: 0.07 ng

RT: 17.74 min Scan# 2973

Delta R.T. 0.00 min

Lab File: BE089622.D

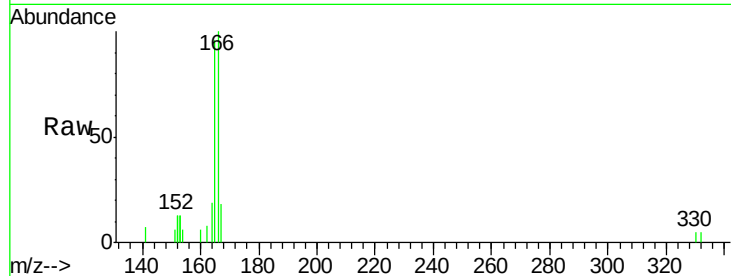
Acq: 18 Feb 2015 17:34

Instrument :

BNA_E

ClientSampleId :

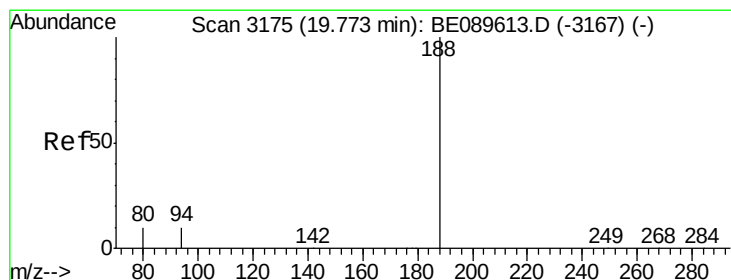
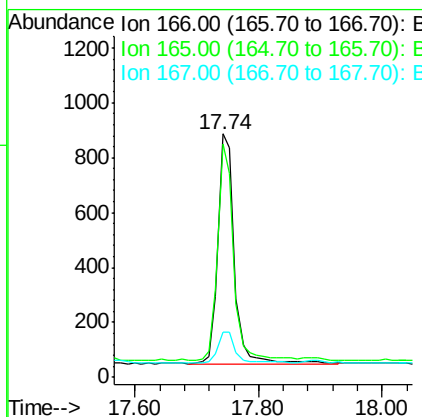
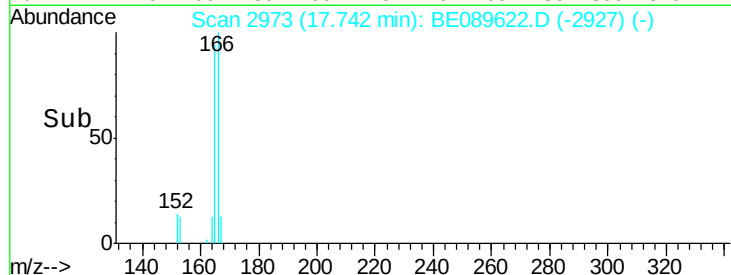
MDL-02-W



Tgt Ion	Ratio	Lower	Upper
166	100		
165	90.6	74.7	112.1
167	13.6	10.5	15.7

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#13

Phenanthrene-d10

Concen: 5.00 ng

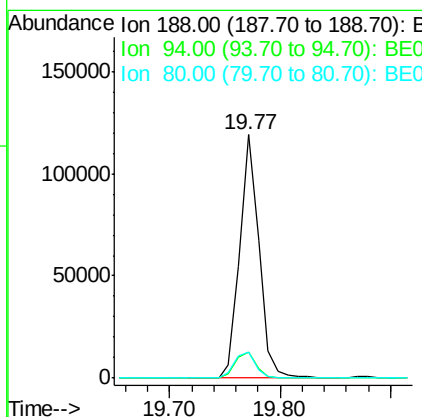
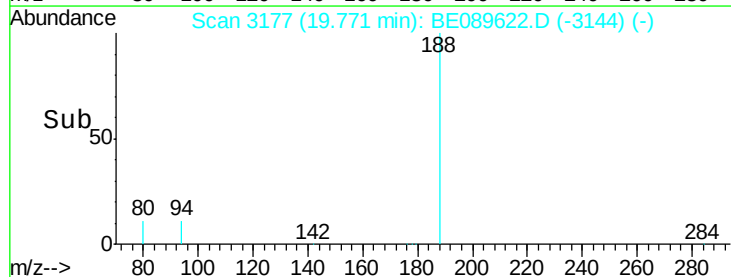
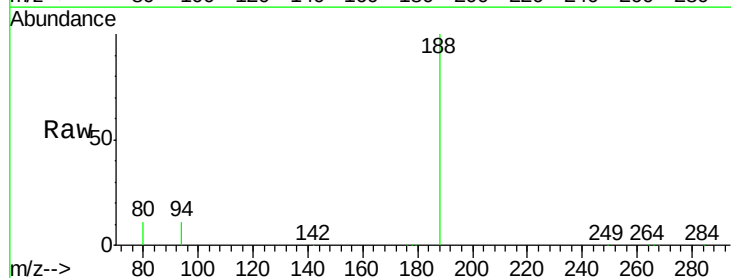
RT: 19.77 min Scan# 3177

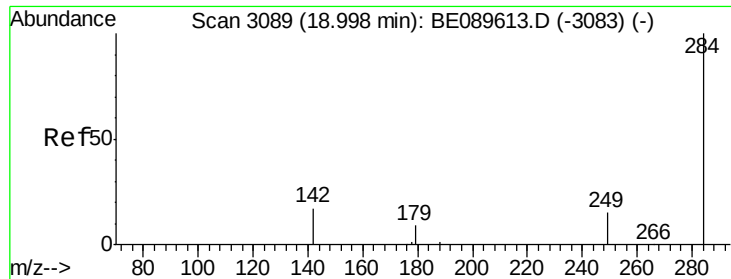
Delta R.T. -0.00 min

Lab File: BE089622.D

Acq: 18 Feb 2015 17:34

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.6	8.2	12.4
80	10.6	8.1	12.1





#14

Hexachlorobenzene

Concen: 0.08 ng

RT: 19.00 min Scan# 3091

Delta R.T. -0.00 min

Lab File: BE089622.D

Acq: 18 Feb 2015 17:34

Instrument :

BNA_E

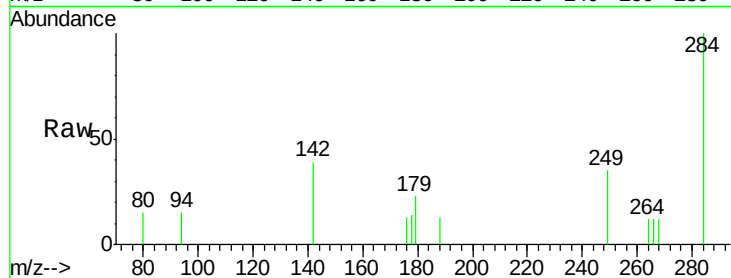
ClientSampleId :

MDL-02-W

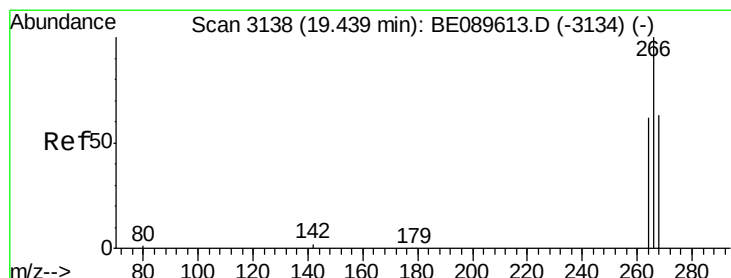
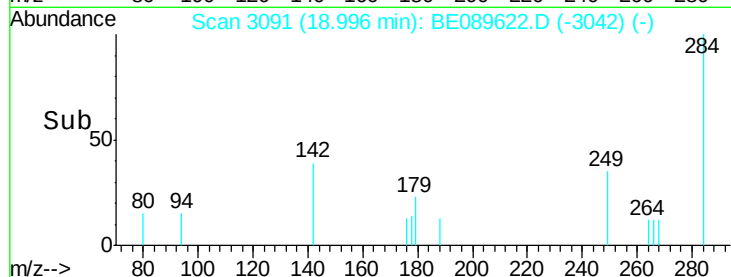
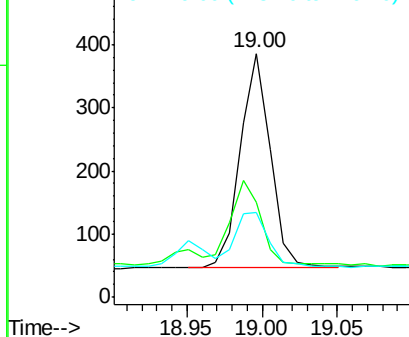
Tgt Ion:	284	Resp:	478
Ion Ratio	Lower	Upper	
284	100		
142	51.0	32.3	48.5#
249	29.3	22.3	33.5

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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



#15

Pentachlorophenol

Concen: 0.02 ng

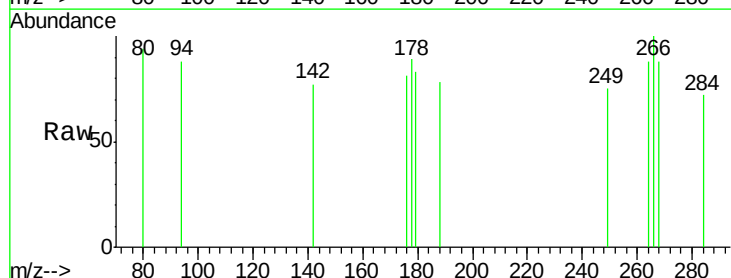
RT: 19.45 min Scan# 3141

Delta R.T. 0.01 min

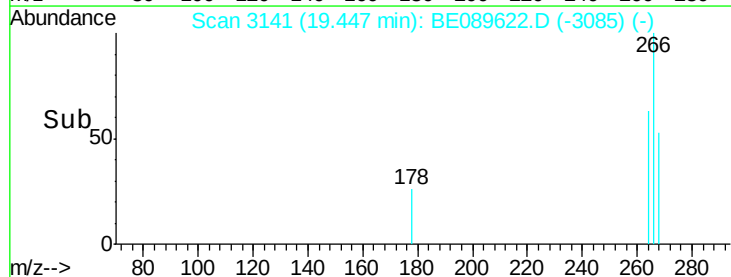
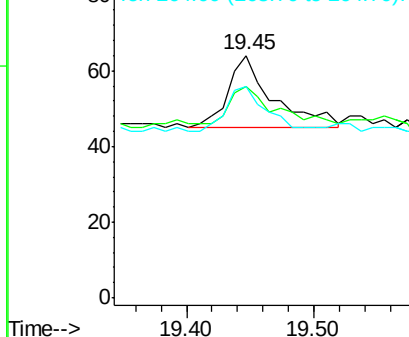
Lab File: BE089622.D

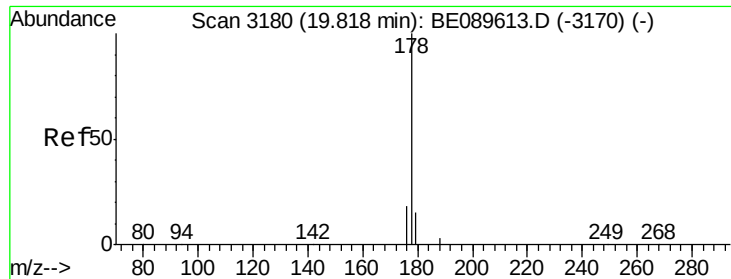
Acq: 18 Feb 2015 17:34

Tgt Ion:	266	Resp:	46
Ion Ratio	Lower	Upper	
266	100		
268	87.5	52.6	79.0#
264	87.5	51.8	77.8#



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





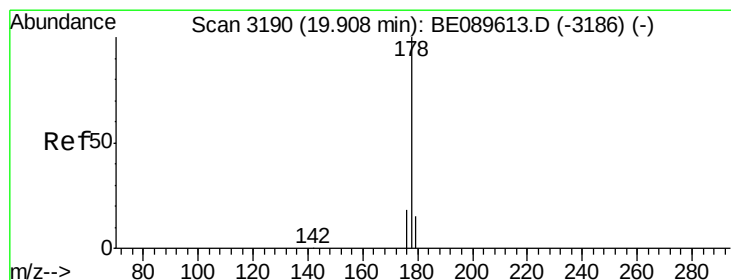
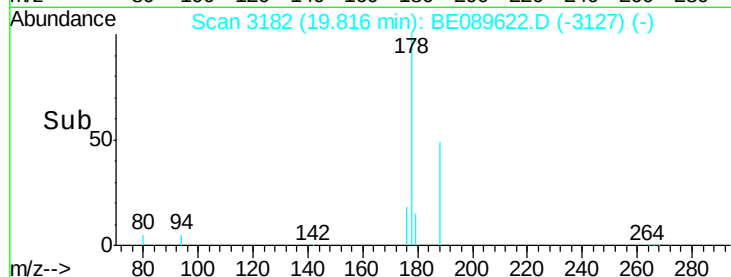
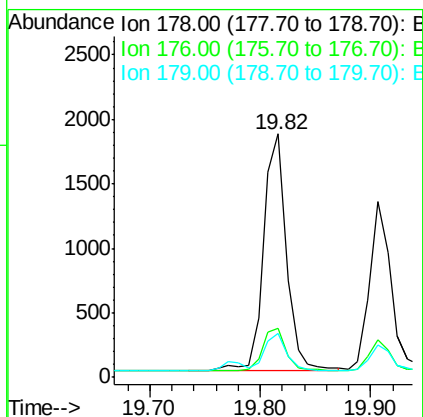
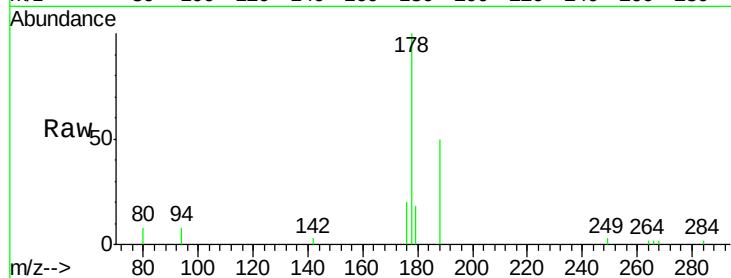
#16
Phenanthrene
Concen: 0.07 ng
RT: 19.82 min Scan# 3182
Delta R.T. -0.00 min
Lab File: BE089622.D
Acq: 18 Feb 2015 17:34

Instrument :
BNA_E
ClientSampleId :
MDL-02-W

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.1	22.7
179	14.8	12.3	18.5

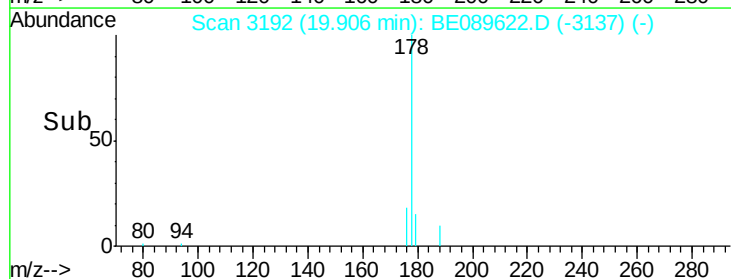
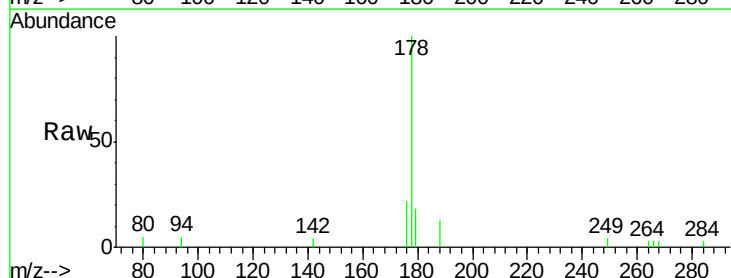
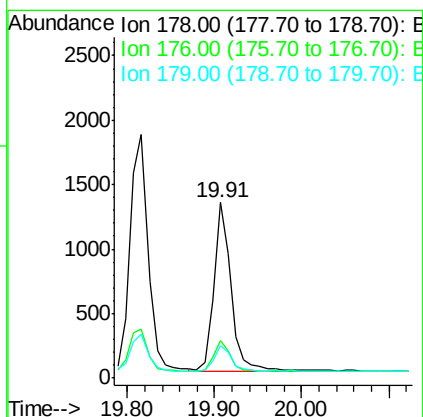
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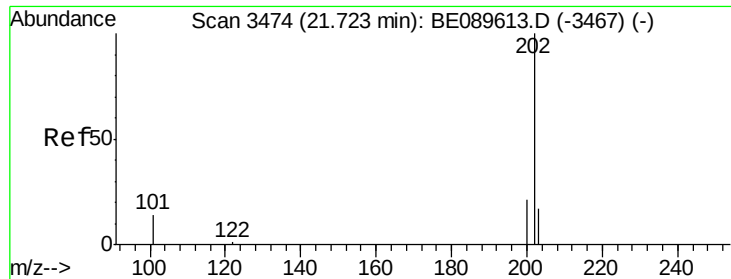
apatel
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#17
Anthracene
Concen: 0.06 ng
RT: 19.91 min Scan# 3192
Delta R.T. -0.00 min
Lab File: BE089622.D
Acq: 18 Feb 2015 17:34

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.0	14.6	22.0
179	14.7	12.3	18.5





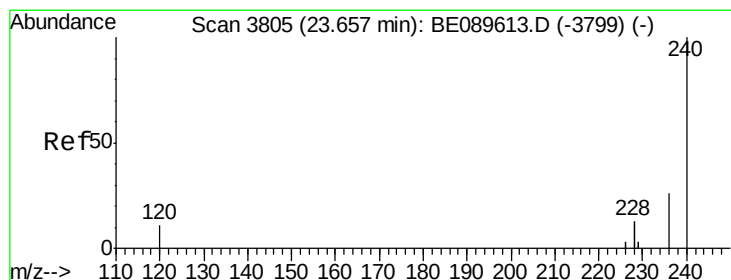
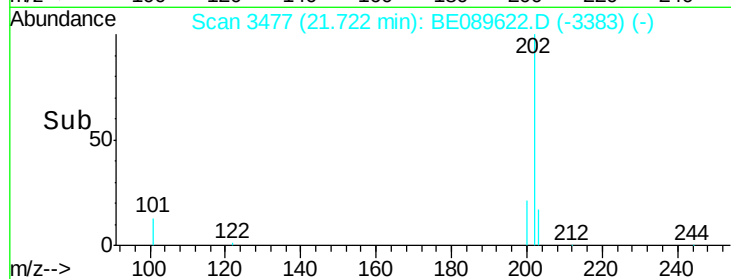
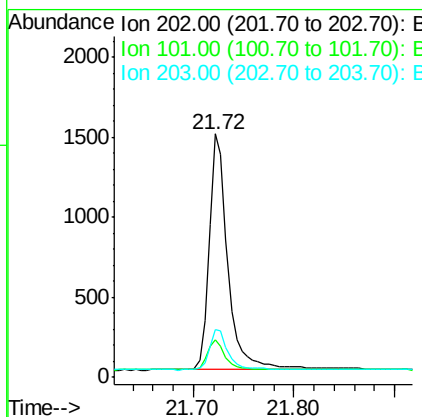
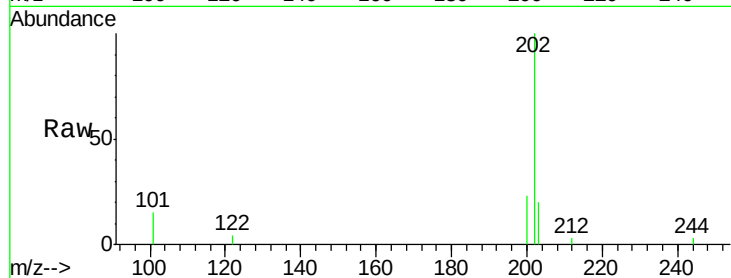
#18
 Fluoranthene
 Concen: 0.06 ng
 RT: 21.72 min Scan# 3477
 Delta R.T. -0.00 min
 Lab File: BE089622.D
 Acq: 18 Feb 2015 17:34

Instrument :
 BNA_E
 ClientSampleId :
 MDL-02-W

Tgt Ion:	202	Resp:	1920
Ion Ratio	Lower	Upper	
202	100		
101	12.2	10.4	15.6
203	17.7	13.9	20.9

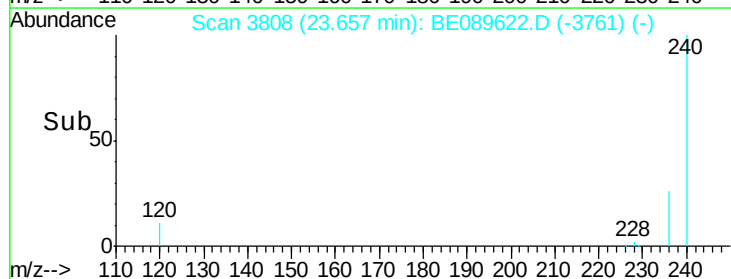
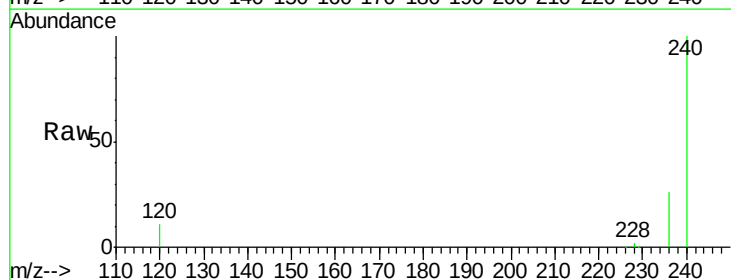
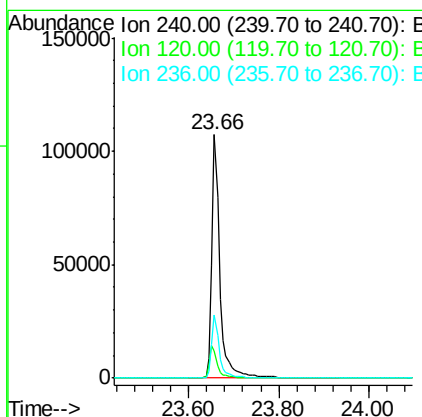
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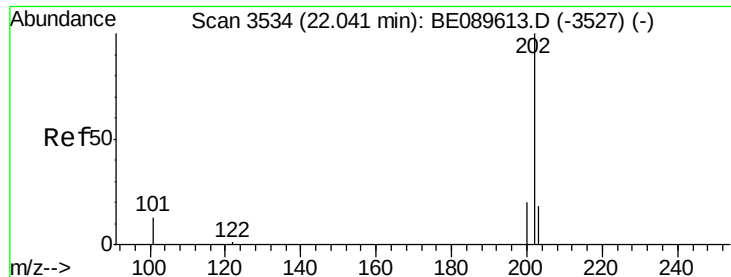
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#19
 Chrysene-d12
 Concen: 5.00 ng
 RT: 23.66 min Scan# 3808
 Delta R.T. -0.00 min
 Lab File: BE089622.D
 Acq: 18 Feb 2015 17:34

Tgt Ion:	240	Resp:	131810
Ion Ratio	Lower	Upper	
240	100		
120	11.3	9.0	13.4
236	26.1	21.0	31.6





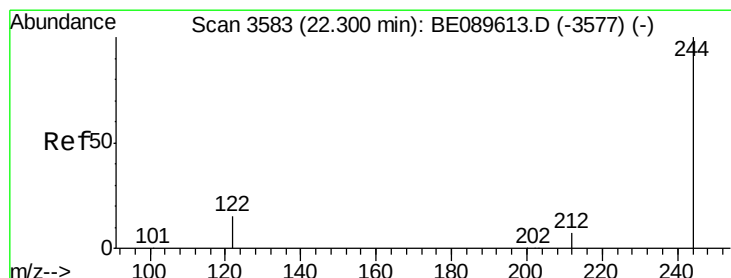
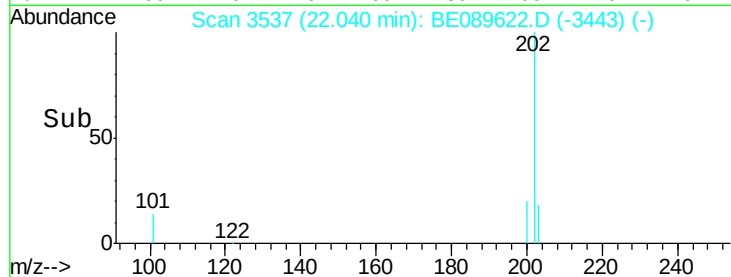
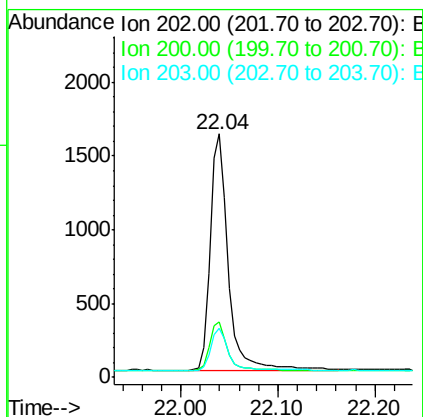
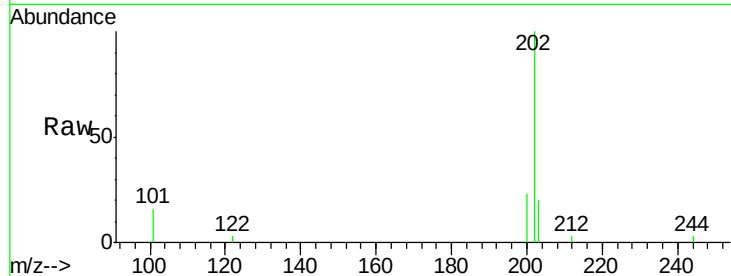
#20
Pyrene
Concen: 0.06 ng
RT: 22.04 min Scan# 3537
Delta R.T. -0.00 min
Lab File: BE089622.D
Acq: 18 Feb 2015 17:34

Instrument :
BNA_E
ClientSampleId :
MDL-02-W

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.3	16.3	24.5
203	16.7	13.8	20.8

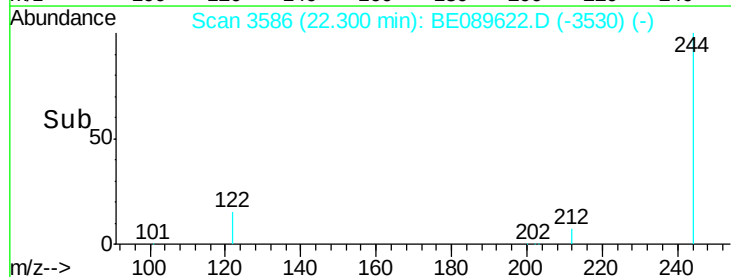
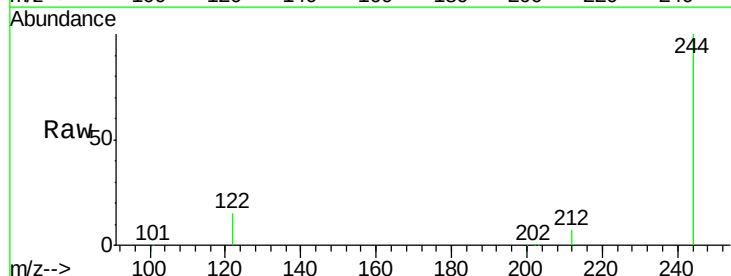
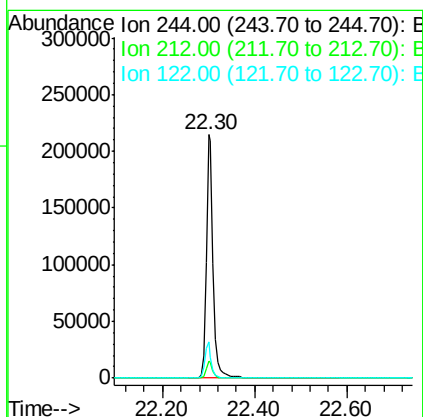
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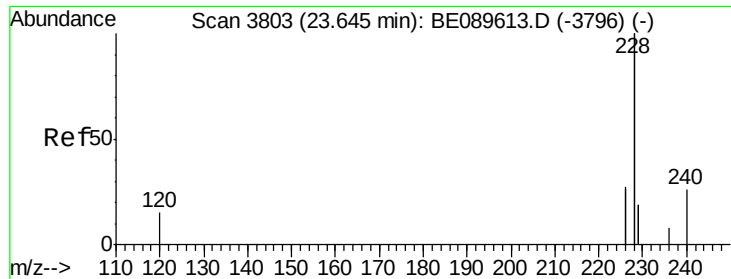
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#21
Terphenyl-d14
Concen: 12.24 ng
RT: 22.30 min Scan# 3586
Delta R.T. -0.00 min
Lab File: BE089622.D
Acq: 18 Feb 2015 17:34

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.8	8.8
122	15.1	11.8	17.8





#22

Benzo(a)anthracene

Concen: 0.06 ng m

RT: 23.65 min Scan# 3807

Delta R.T. 0.01 min

Lab File: BE089622.D

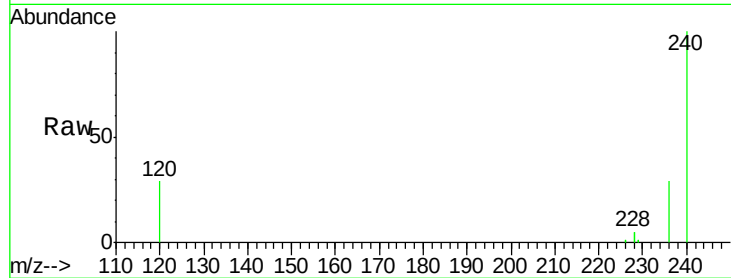
Acq: 18 Feb 2015 17:34

Instrument :

BNA_E

ClientSampleId :

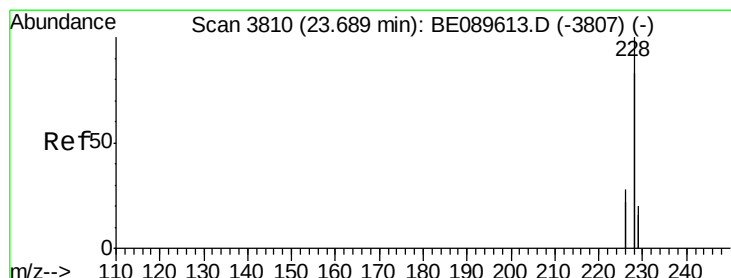
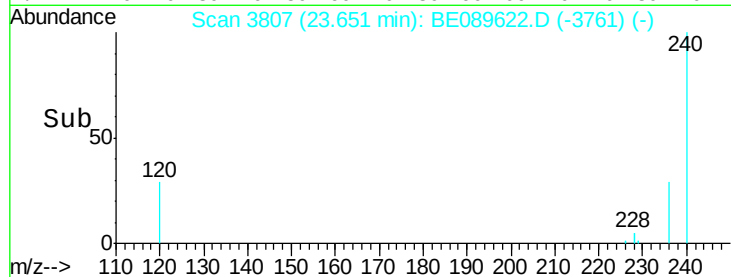
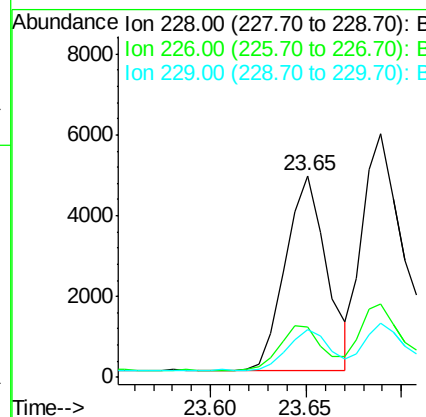
MDL-02-W



Tgt Ion:	228	Resp:	7107
Ion Ratio	Lower	Upper	
228	100		
226	24.7	21.2	31.8
229	23.4	15.2	22.8

Manual Integrations
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#23

Chrysene

Concen: 0.08 ng

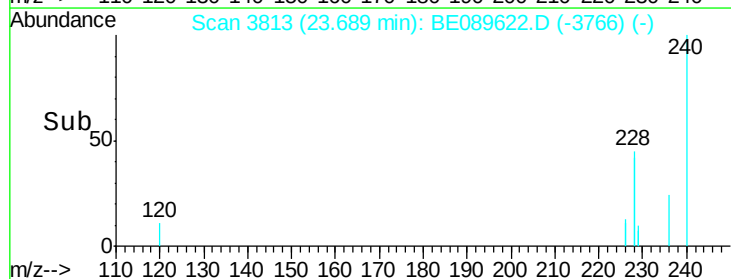
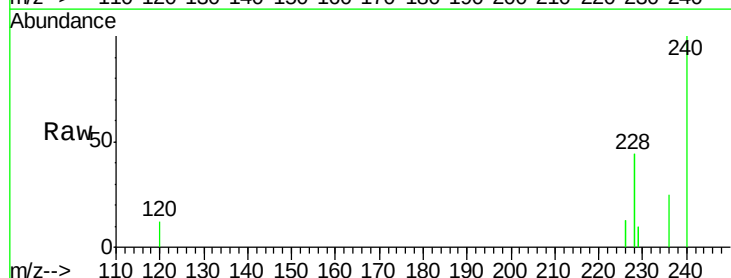
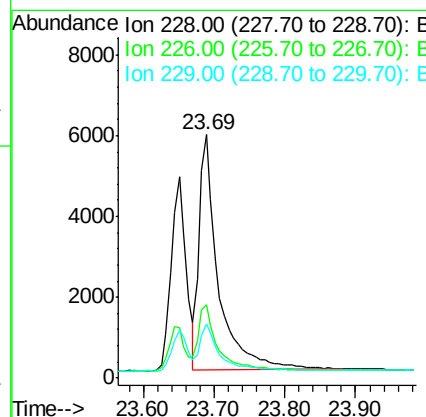
RT: 23.69 min Scan# 3813

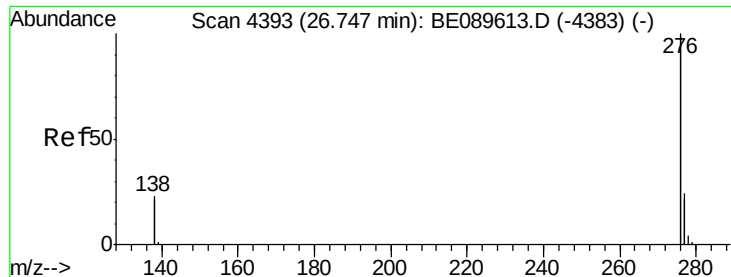
Delta R.T. -0.00 min

Lab File: BE089622.D

Acq: 18 Feb 2015 17:34

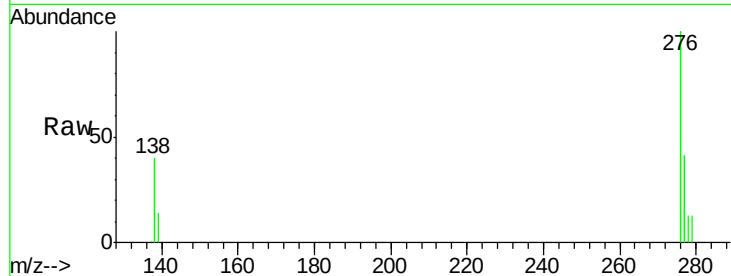
Tgt Ion:	228	Resp:	10980
Ion Ratio	Lower	Upper	
228	100		
226	29.9	22.2	33.4
229	22.3	16.0	24.0





#24
 Indeno(1,2,3-cd)pyrene
 Concen: 0.20 ng
 RT: 26.74 min Scan# 4395
 Delta R.T. -0.01 min
 Lab File: BE089622.D
 Acq: 18 Feb 2015 17:34

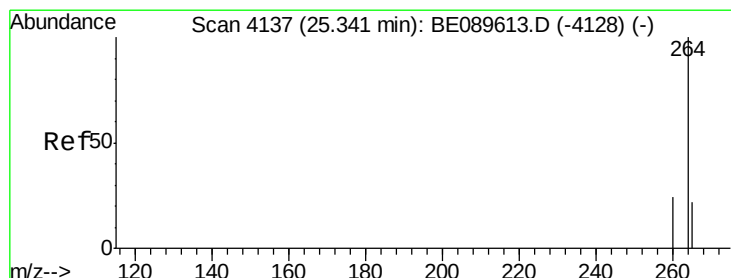
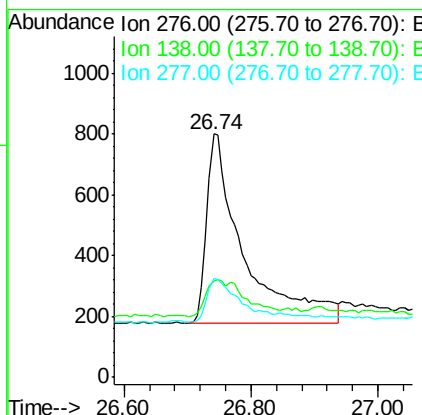
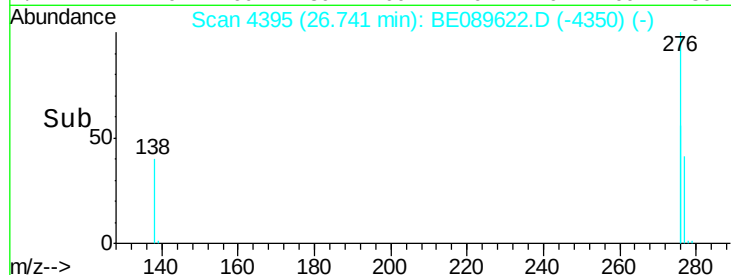
Instrument :
 BNA_E
 ClientSampleID :
 MDL-02-W



Tgt Ion: 276 Resp: 2530
 Ion Ratio Lower Upper
 276 100
 138 21.7 21.4 32.2
 277 20.6 19.9 29.9

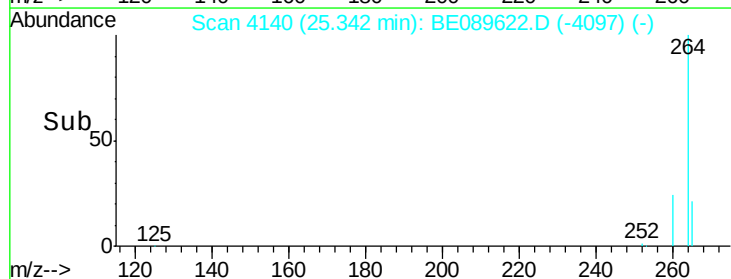
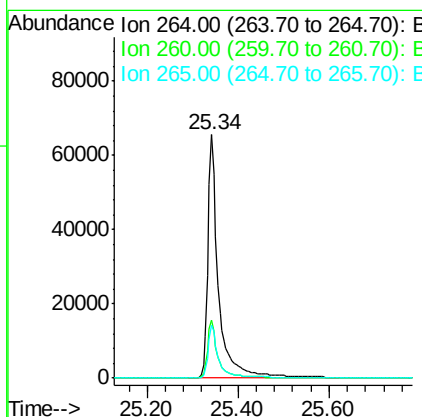
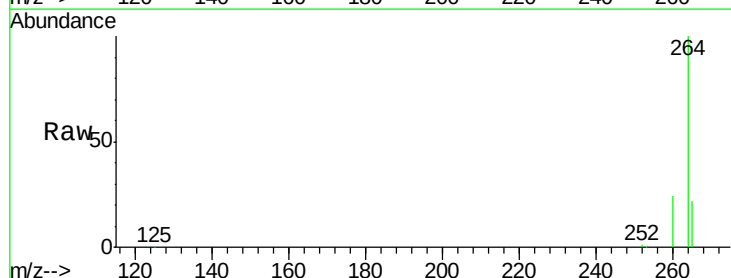
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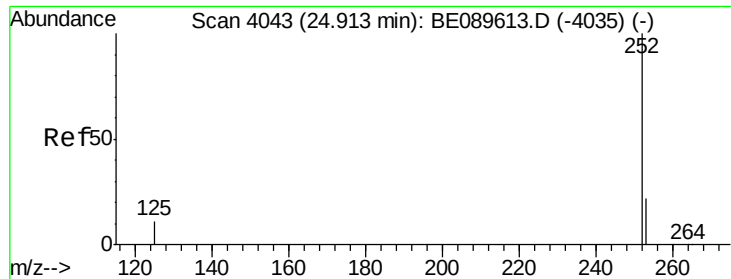
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#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 25.34 min Scan# 4140
 Delta R.T. 0.00 min
 Lab File: BE089622.D
 Acq: 18 Feb 2015 17:34

Tgt Ion: 264 Resp: 106543
 Ion Ratio Lower Upper
 264 100
 260 23.7 19.0 28.6
 265 21.5 17.4 26.0





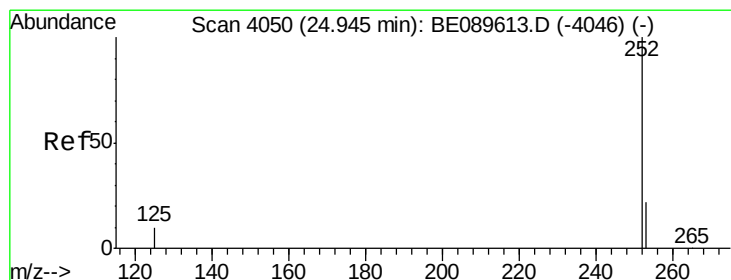
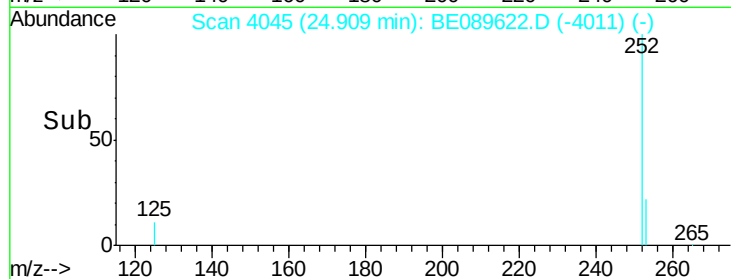
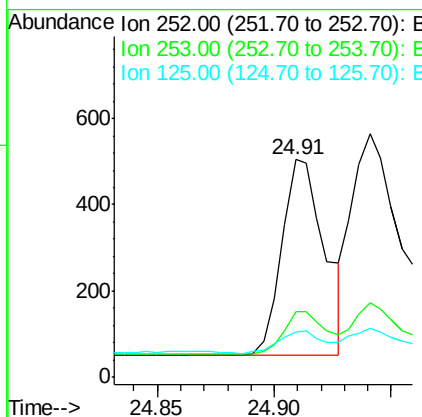
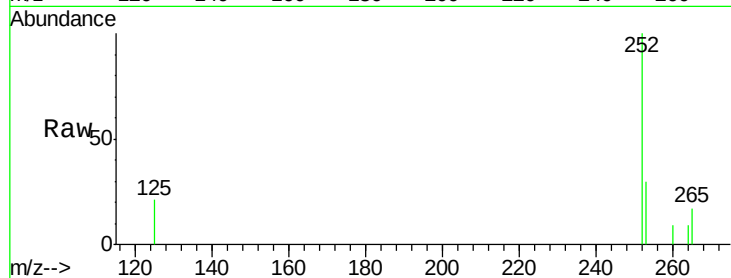
#26
Benzo(b)fluoranthene
Concen: 0.29 ng
RT: 24.91 min Scan# 4045
Delta R.T. -0.00 min
Lab File: BE089622.D
Acq: 18 Feb 2015 17:34

Instrument :
BNA_E
ClientSampleId :
MDL-02-W

Tgt Ion	Ratio	Lower	Upper
252	100		
253	29.9	17.6	26.4#
125	21.0	8.8	13.2#

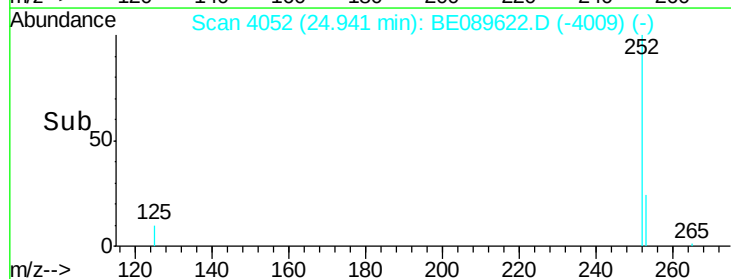
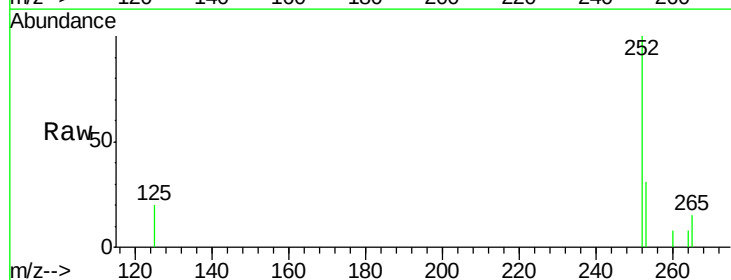
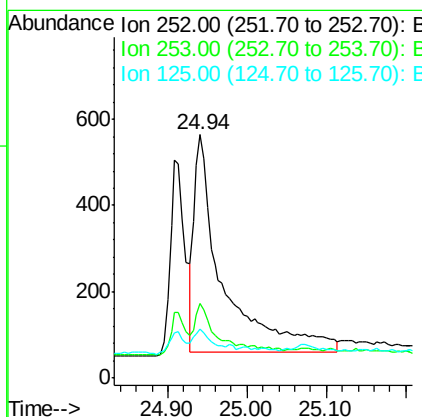
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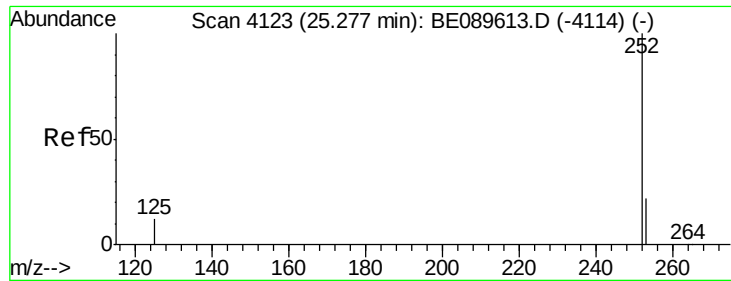
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#27
Benzo(k)fluoranthene
Concen: 0.04 ng m
RT: 24.94 min Scan# 4052
Delta R.T. -0.00 min
Lab File: BE089622.D
Acq: 18 Feb 2015 17:34

Tgt Ion	Ratio	Lower	Upper
252	100		
253	30.9	17.7	26.5#
125	20.0	8.8	13.2#





#28

Benzo(a)pyrene

Concen: 0.27 ng

RT: 25.27 min Scan# 4125

Delta R.T. -0.00 min

Lab File: BE089622.D

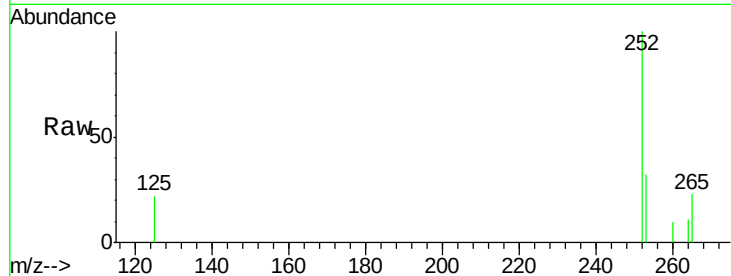
Acq: 18 Feb 2015 17:34

Instrument :

BNA_E

ClientSampleId :

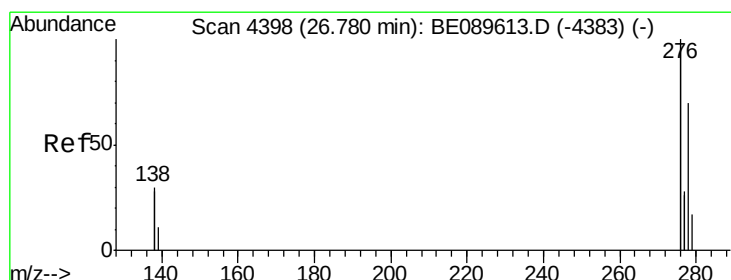
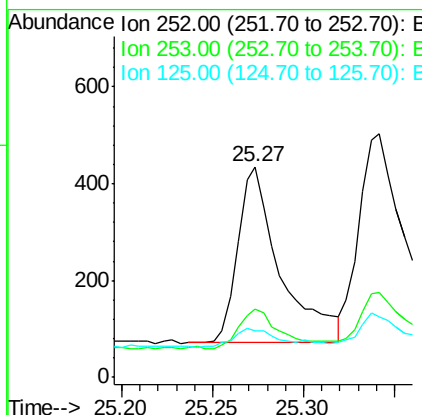
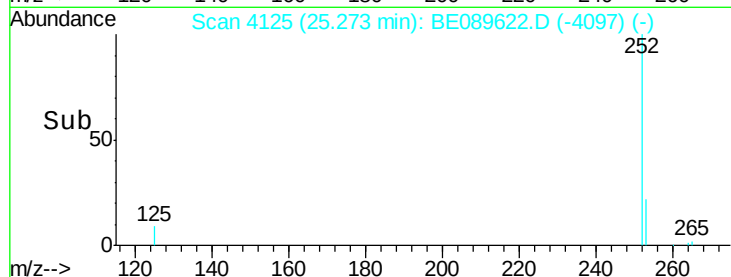
MDL-02-W



Tgt Ion	Ratio	Lower	Upper
252	100		
253	32.2	18.1	27.1#
125	21.8	9.6	14.4#

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#29

Dibenzo(a,h)anthracene

Concen: 0.25 ng

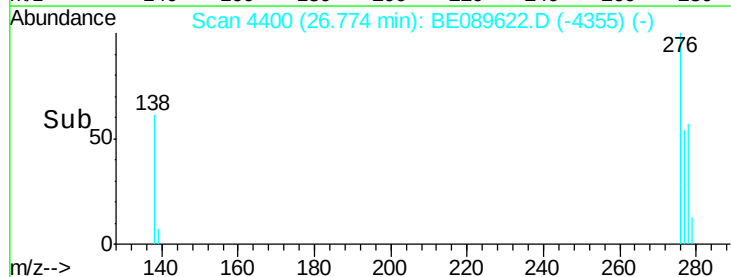
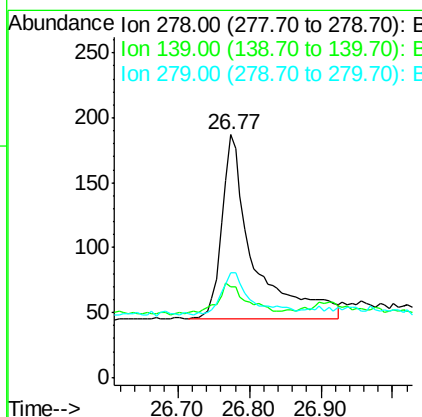
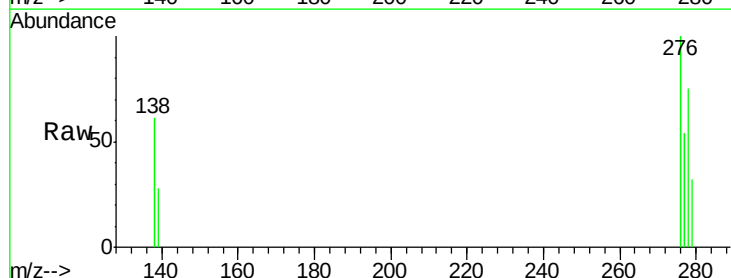
RT: 26.77 min Scan# 4400

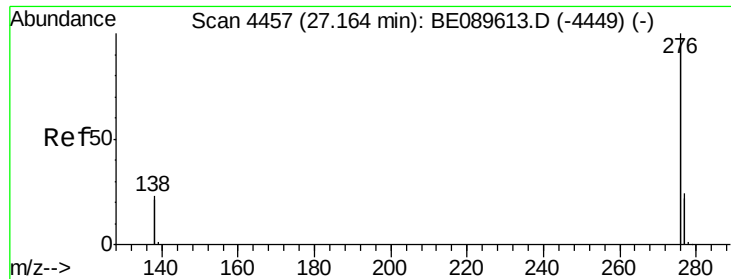
Delta R.T. -0.01 min

Lab File: BE089622.D

Acq: 18 Feb 2015 17:34

Tgt Ion	Ratio	Lower	Upper
278	100		
139	37.4	13.7	20.5#
279	43.3	19.7	29.5#





#30

Benzo(g,h,i)perylene

Concen: 0.17 ng

RT: 27.16 min Scan# 4459

Delta R.T. -0.01 min

Lab File: BE089622.D

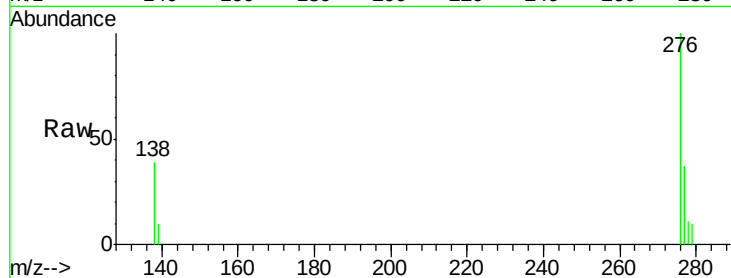
Acq: 18 Feb 2015 17:34

Instrument :

BNA_E

ClientSampleId :

MDL-02-W



Tgt	Ion	276	Resp:	3372
Ion	Ratio	Lower	Upper	
276	100			
277	37.1	19.1	28.7#	
138	39.0	18.7	28.1#	

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