

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021815\
 Data File : BE089625.D
 Acq On : 18 Feb 2015 19:34
 Operator : TP/IZ
 Sample : MDL-05-W
 Misc : MDL-WATER-0.1/0.2
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-05-W

Manual Integrations
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Quant Time: Feb 19 05:01:12 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	34829	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	137695	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	66666	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	130784	5.00	ng	0.00
19) Chrysene-d12	23.66	240	124095	5.00	ng	0.00
25) Perylene-d12	25.34	264	101975	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	10.61	82	61531	10.28	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	168303	9.43	ng	0.00
21) Terphenyl-d14	22.30	244	210505	11.80	ng	0.00

Target Compounds				Qvalue		
2) 1,4-Dioxane	2.74	88	278	0.07	ng	# 77
6) Naphthalene	12.29	128	2348	0.08	ng	# 93
7) 2-Methylnaphthalene	13.95	142	1275	0.07	ng	98
10) Acenaphthylene	16.07	152	6990	0.06	ng	100
11) Acenaphthene	16.50	154	1273	0.07	ng	85
12) Fluorene	17.74	166	1425	0.07	ng	99
14) Hexachlorobenzene	19.00	284	442	0.08	ng	94
15) Pentachlorophenol	19.45	266	34	0.01	ng	# 68
16) Phenanthrene	19.82	178	2507	0.08	ng	99
17) Anthracene	19.91	178	1757	0.06	ng	99
18) Fluoranthene	21.73	202	1880	0.06	ng	99
20) Pyrene	22.04	202	1994	0.07	ng	100
22) Benzo(a)anthracene	23.65	228	7195	0.07	ng	# 94
23) Chrysene	23.69	228	11131	0.09	ng	95
24) Indeno(1,2,3-cd)pyrene	26.75	276	2109	0.19	ng	# 92
26) Benzo(b)fluoranthene	24.91	252	559	0.29	ng	# 81
27) Benzo(k)fluoranthene	24.94	252	1327m	0.05	ng	
28) Benzo(a)pyrene	25.27	252	556	0.26	ng	# 73
29) Dibenzo(a,h)anthracene	26.77	278	421	0.25	ng	# 50
30) Benzo(g,h,i)perylene	27.16	276	2768	0.16	ng	# 69

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

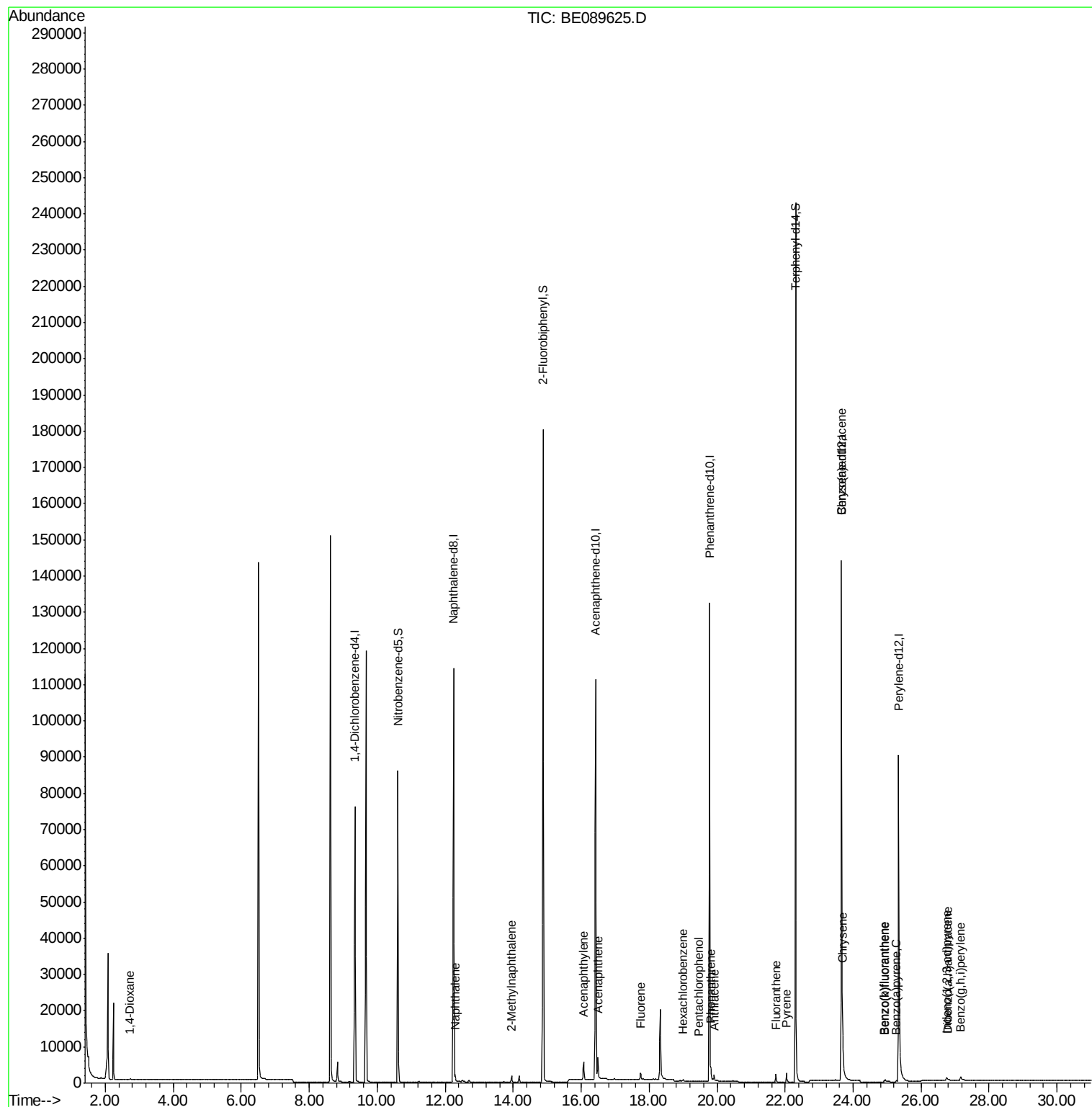
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE021815\
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1300

Delta R.T. 0.00 min

Lab File: BE089625.D

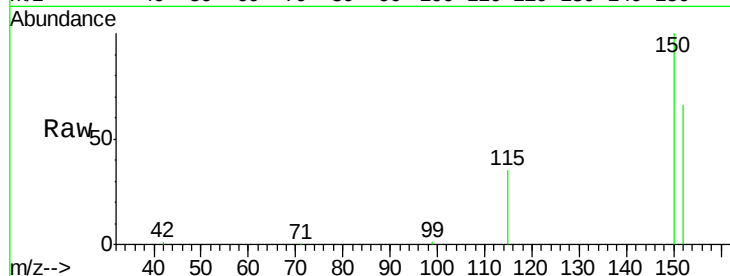
Acq: 18 Feb 2015 19:34

Instrument :

BNA_E

ClientSampleId :

MDL-05-W



Tgt Ion: 152 Resp: 34829

Ion Ratio Lower Upper

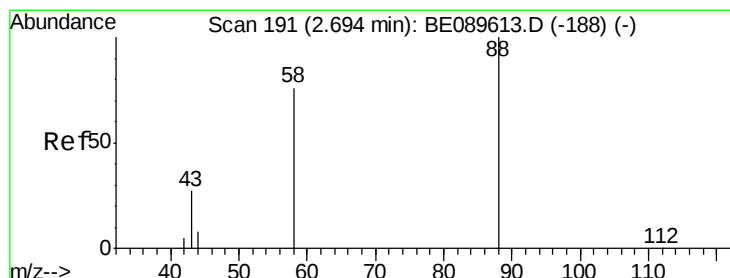
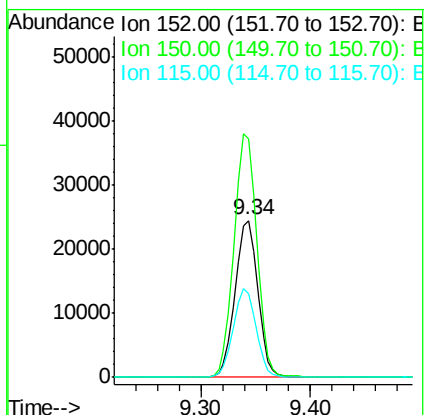
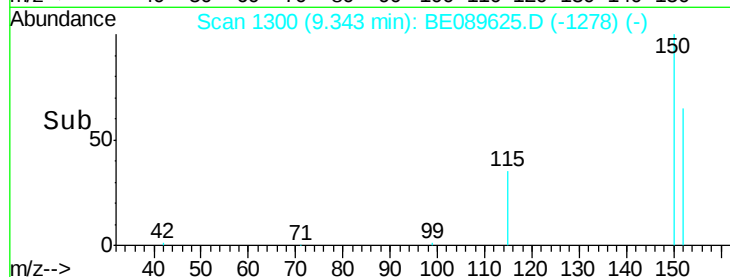
152 100

150 152.7 122.4 183.6

115 53.7 44.2 66.2

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#2

1,4-Dioxane

Concen: 0.07 ng

RT: 2.74 min Scan# 198

Delta R.T. 0.05 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

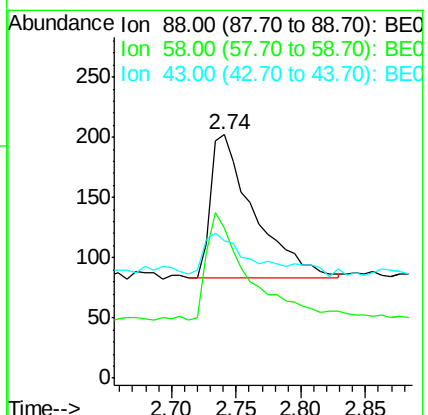
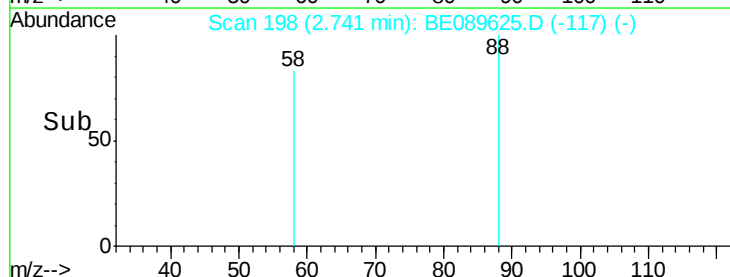
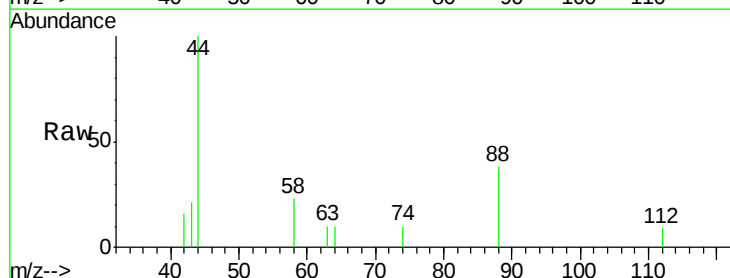
Tgt Ion: 88 Resp: 278

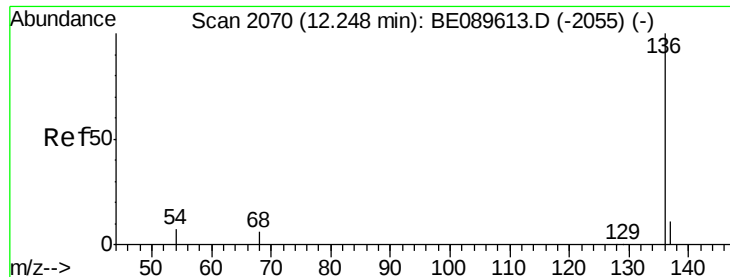
Ion Ratio Lower Upper

88 100

58 78.4 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: BE089625.D

Acq: 18 Feb 2015 19:34

Instrument :

BNA_E

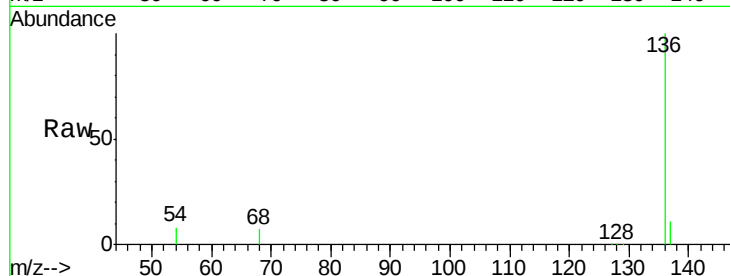
ClientSampleId :

MDL-05-W

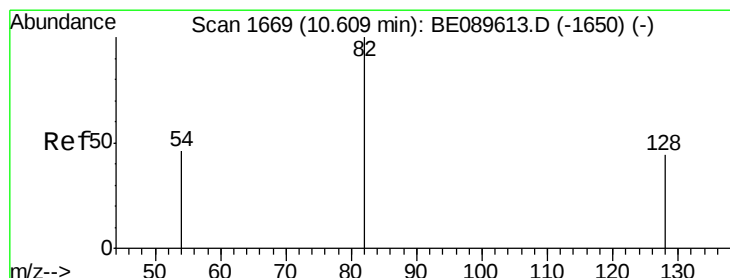
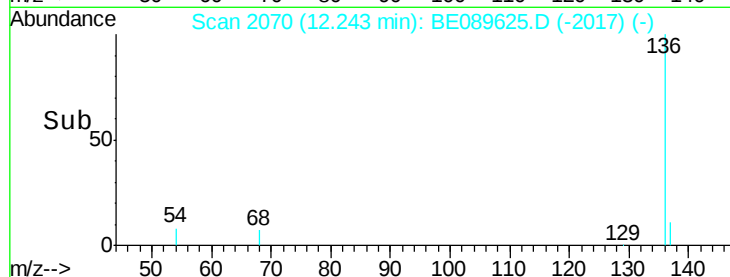
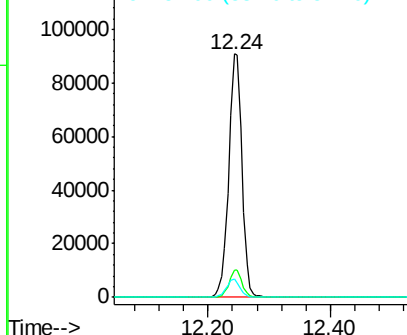
Tgt Ion:	136	Resp:	137695
Ion Ratio	Lower	Upper	
136	100		
137	11.0	8.9	13.3
54	7.8	5.3	7.9

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



#5

Nitrobenzene-d5

Concen: 10.28 ng

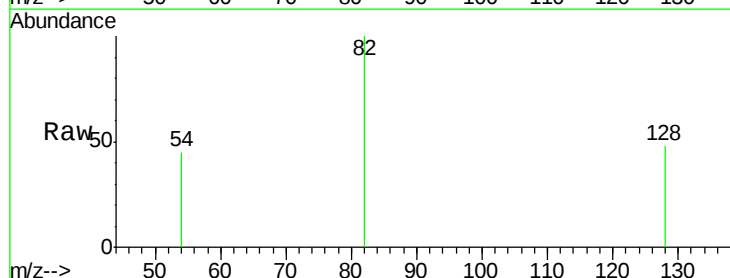
RT: 10.61 min Scan# 1669

Delta R.T. -0.00 min

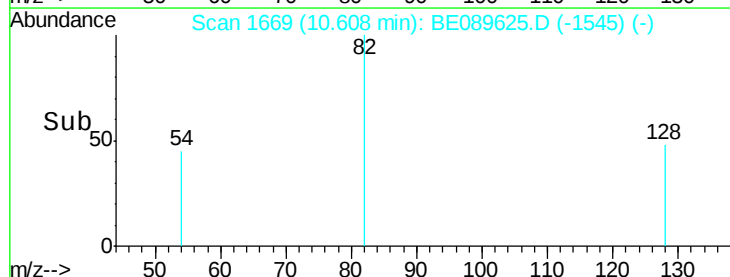
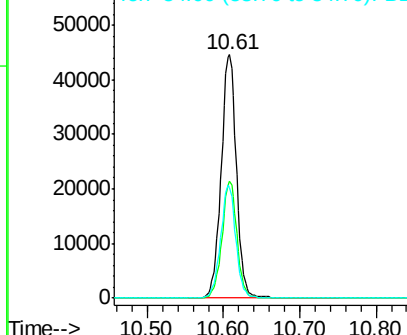
Lab File: BE089625.D

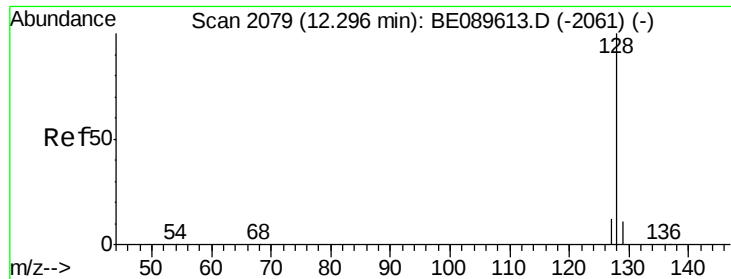
Acq: 18 Feb 2015 19:34

Tgt Ion:	82	Resp:	61531
Ion Ratio	Lower	Upper	
82	100		
128	48.0	35.5	53.3
54	45.4	37.5	56.3



Abundance Ion 82.00 (81.70 to 82.70): BE0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BE0





#6

Naphthalene

Concen: 0.08 ng

RT: 12.29 min Scan# 2079

Delta R.T. -0.01 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

Instrument :

BNA_E

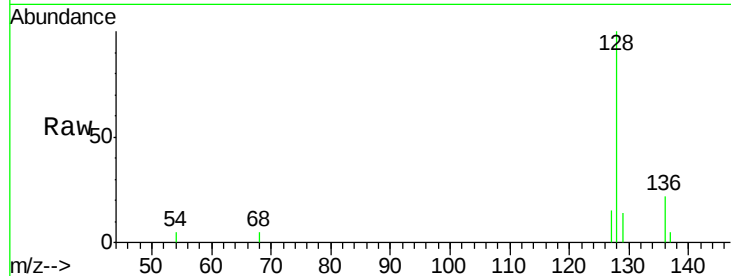
ClientSampleId :

MDL-05-W

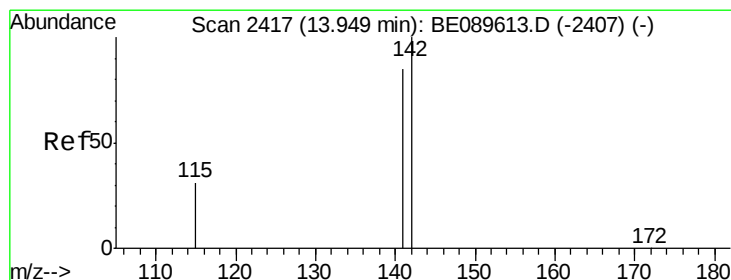
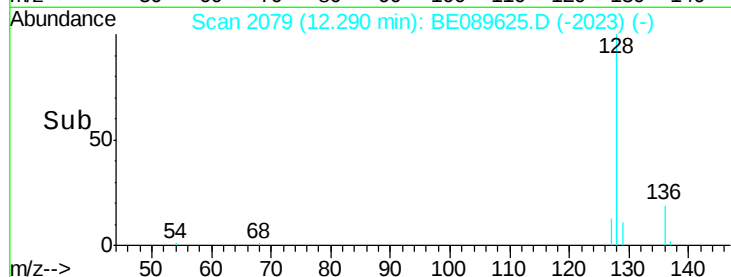
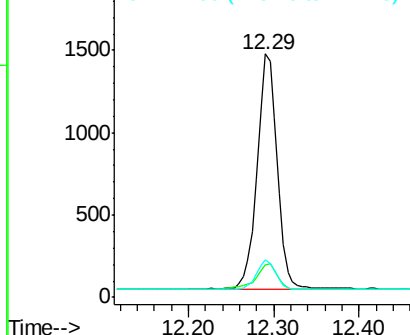
Tgt Ion:	128	Resp:	2348
Ion Ratio	Lower	Upper	
128	100		
129	13.5	8.9	13.3#
127	15.3	9.8	14.8#

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Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E



#7

2-Methylnaphthalene

Concen: 0.07 ng

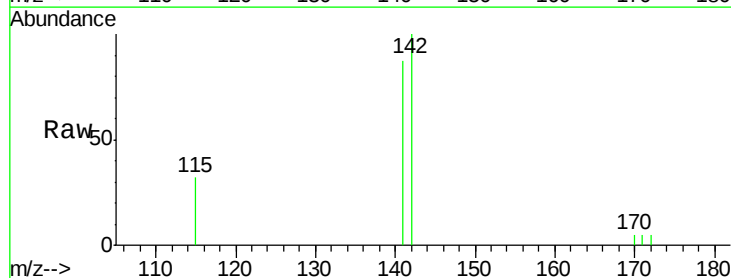
RT: 13.95 min Scan# 2419

Delta R.T. 0.00 min

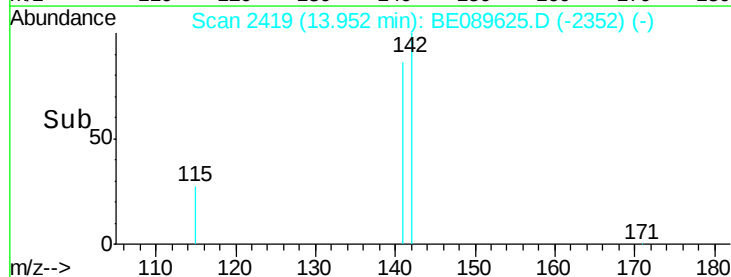
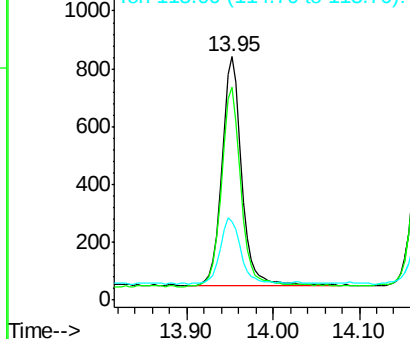
Lab File: BE089625.D

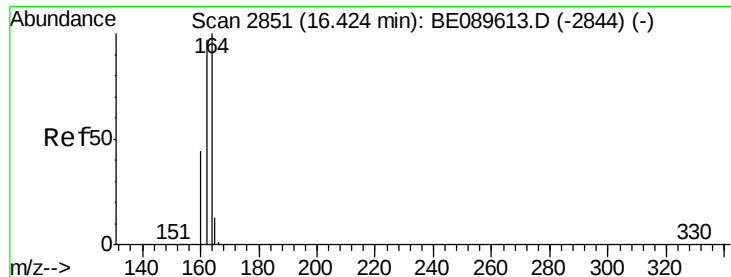
Acq: 18 Feb 2015 19:34

Tgt Ion:	142	Resp:	1275
Ion Ratio	Lower	Upper	
142	100		
141	87.4	68.3	102.5
115	32.4	25.1	37.7



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E





#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.42 min Scan# 2853

Delta R.T. 0.00 min

Lab File: BE089625.D

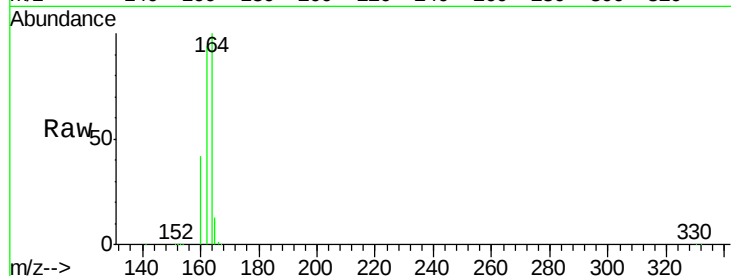
Acq: 18 Feb 2015 19:34

Instrument :

BNA_E

ClientSampleId :

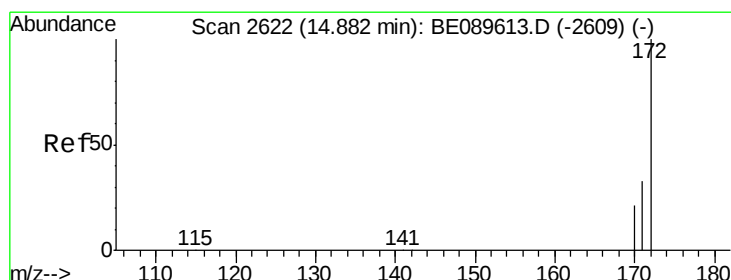
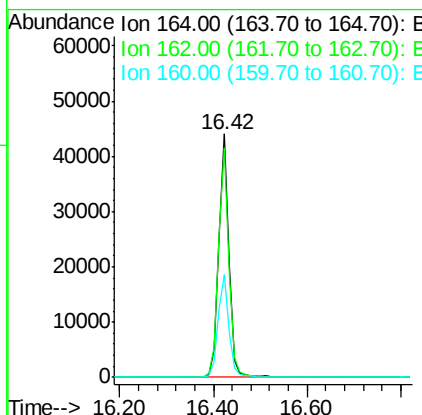
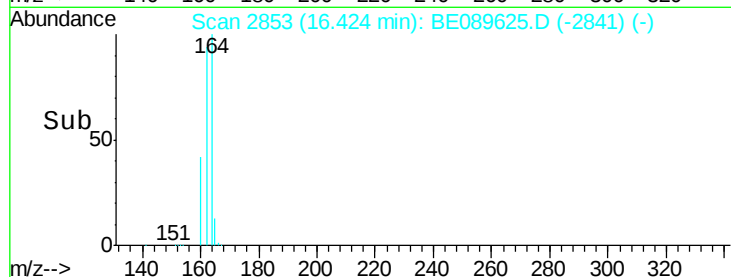
MDL-05-W



Tgt Ion:	164	Resp:	66666
Ion Ratio	Lower	Upper	
164	100		
162	94.4	77.5	116.3
160	42.3	35.5	53.3

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#9

2-Fluorobiphenyl

Concen: 9.43 ng

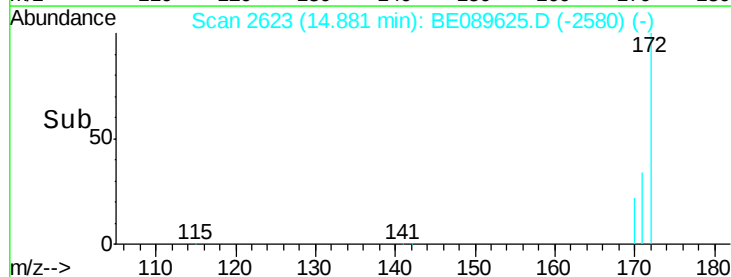
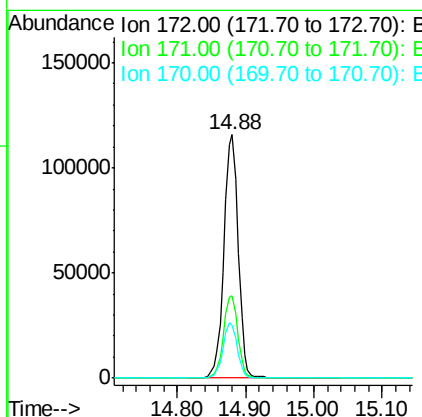
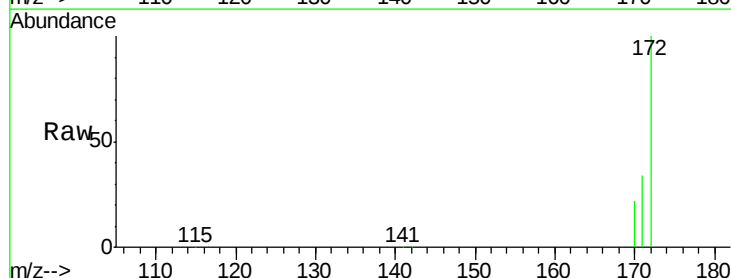
RT: 14.88 min Scan# 2623

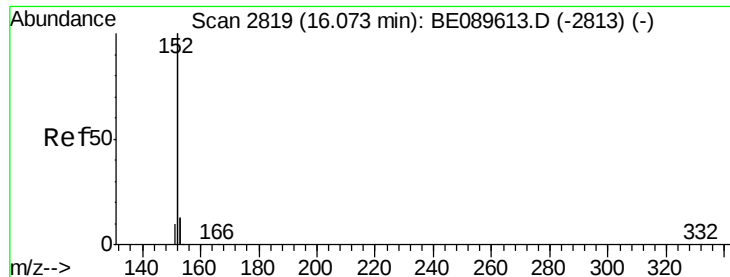
Delta R.T. -0.00 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

Tgt Ion:	172	Resp:	168303
Ion Ratio	Lower	Upper	
172	100		
171	33.6	26.9	40.3
170	21.7	17.4	26.0





#10

Acenaphthylene

Concen: 0.06 ng

RT: 16.07 min Scan# 2821

Delta R.T. 0.00 min

Lab File: BE089625.D

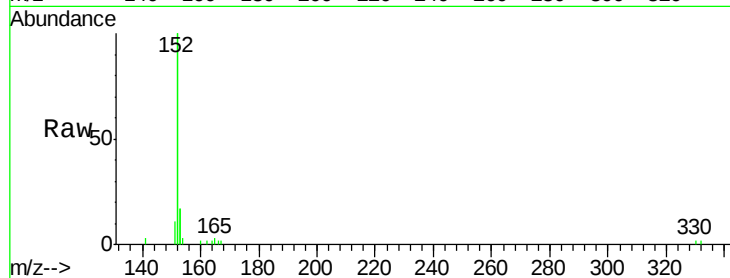
Acq: 18 Feb 2015 19:34

Instrument :

BNA_E

ClientSampleId :

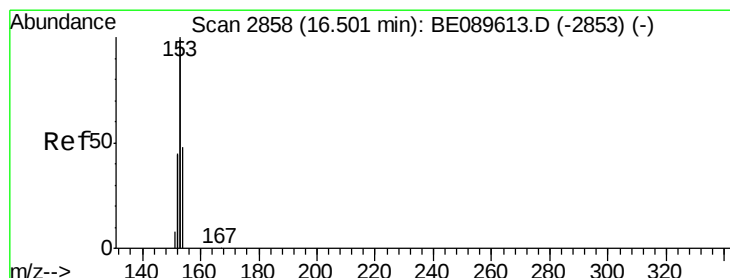
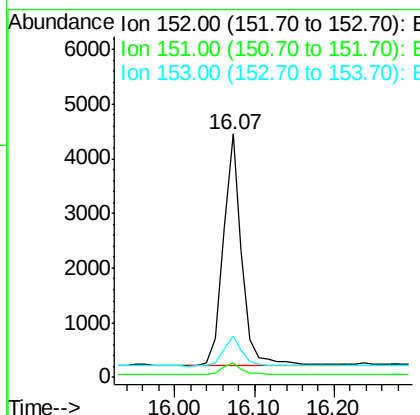
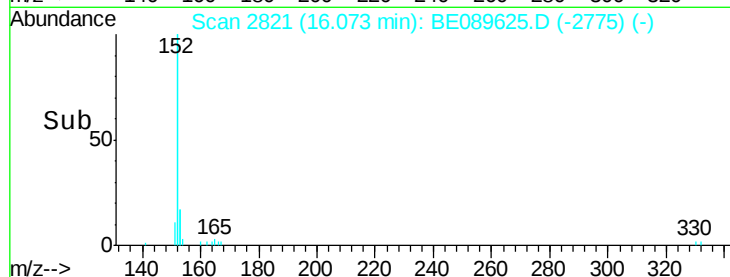
MDL-05-W



Tgt Ion:	152	Resp:	6990
Ion Ratio	Lower	Upper	
152	100		
151	4.8	3.9	5.9
153	13.1	10.5	15.7

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#11

Acenaphthene

Concen: 0.07 ng

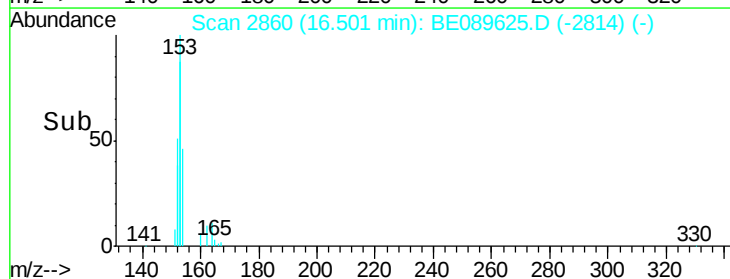
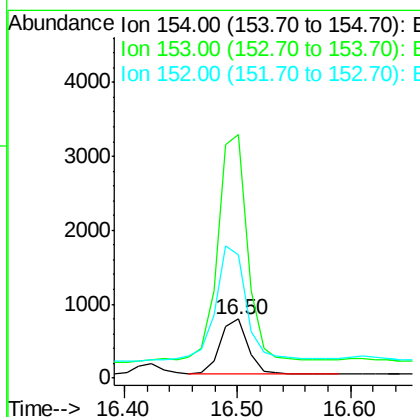
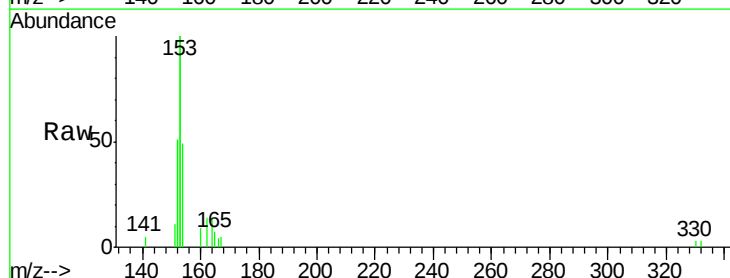
RT: 16.50 min Scan# 2860

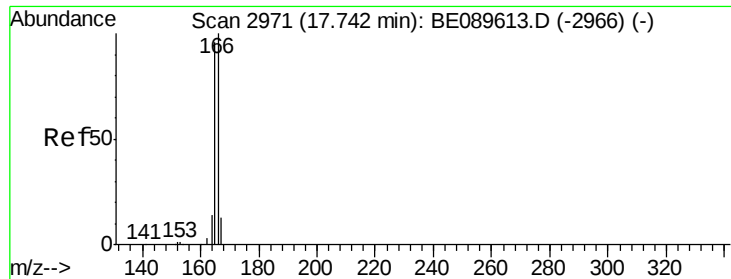
Delta R.T. 0.00 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

Tgt Ion:	154	Resp:	1273
Ion Ratio	Lower	Upper	
154	100		
153	464.3	348.9	523.3
152	245.1	166.6	249.8





#12

Fluorene

Concen: 0.07 ng

RT: 17.74 min Scan# 2973

Delta R.T. 0.00 min

Lab File: BE089625.D

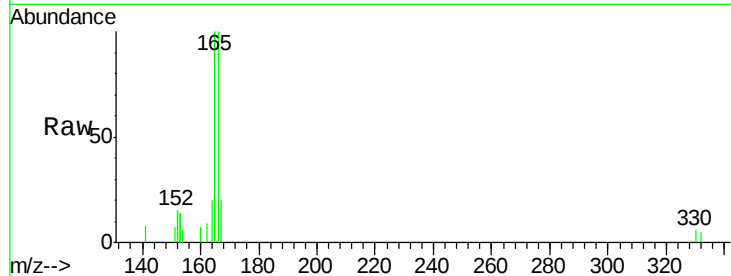
Acq: 18 Feb 2015 19:34

Instrument :

BNA_E

ClientSampleId :

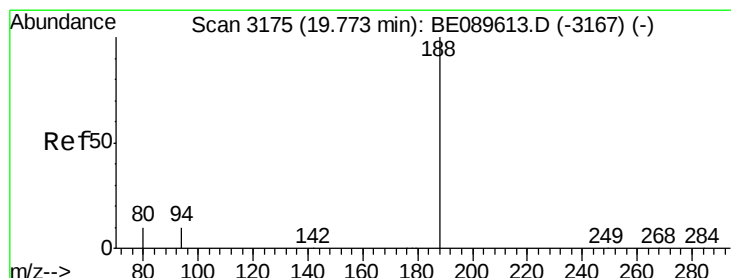
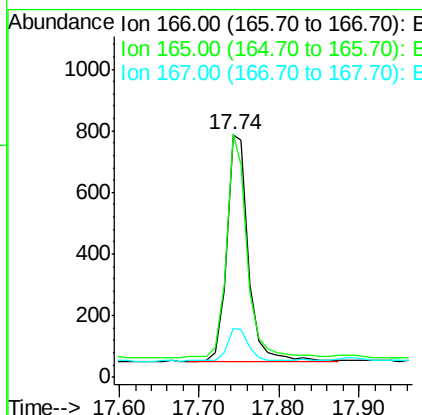
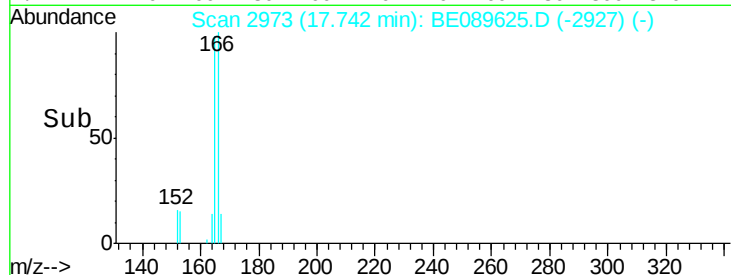
MDL-05-W



Tgt Ion	Ratio	Lower	Upper
166	100		
165	93.6	74.7	112.1
167	14.2	10.5	15.7

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#13

Phenanthrene-d10

Concen: 5.00 ng

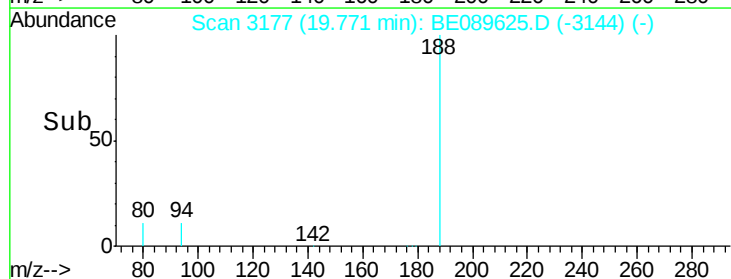
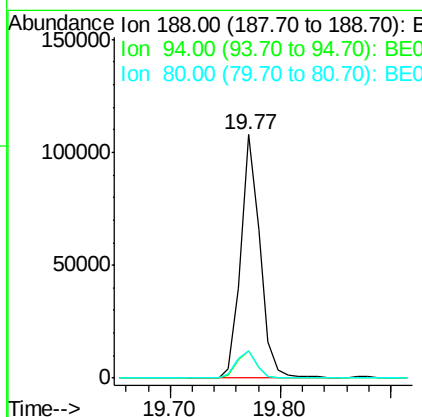
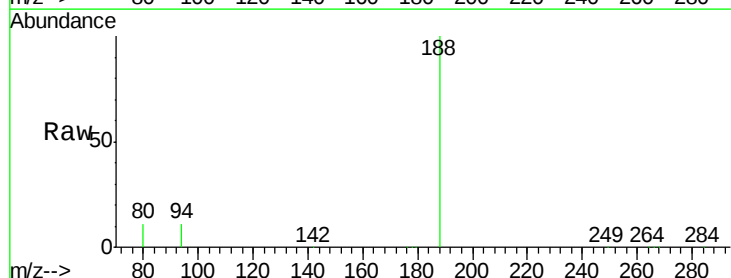
RT: 19.77 min Scan# 3177

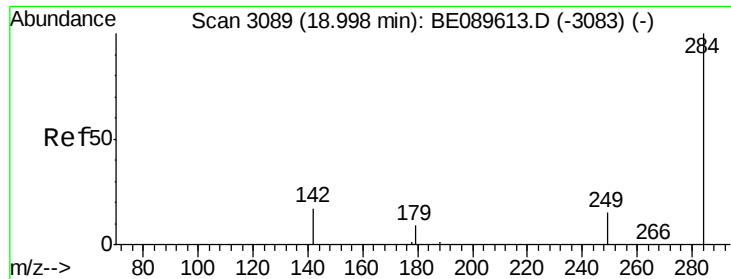
Delta R.T. -0.00 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.0	8.2	12.4
80	11.2	8.1	12.1





#14

Hexachlorobenzene

Concen: 0.08 ng

RT: 19.00 min Scan# 3091

Delta R.T. -0.00 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

Instrument :

BNA_E

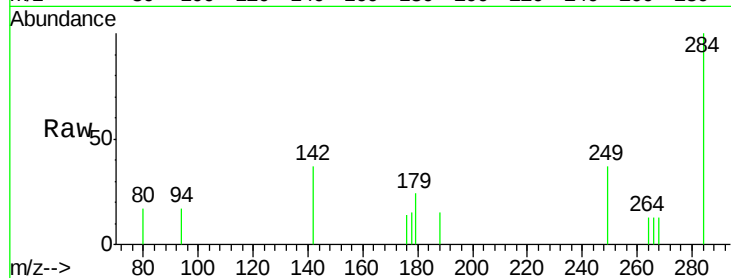
ClientSampleId :

MDL-05-W

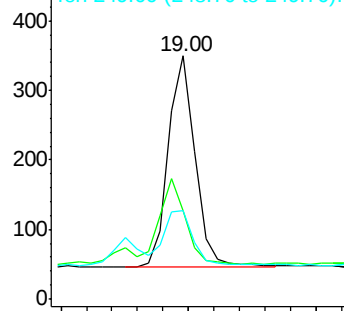
Tgt Ion:	284	Resp:	442
Ion Ratio	Lower	Upper	
284	100		
142	46.6	32.3	48.5
249	27.8	22.3	33.5

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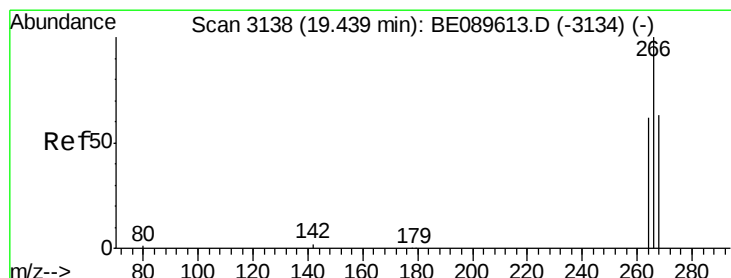
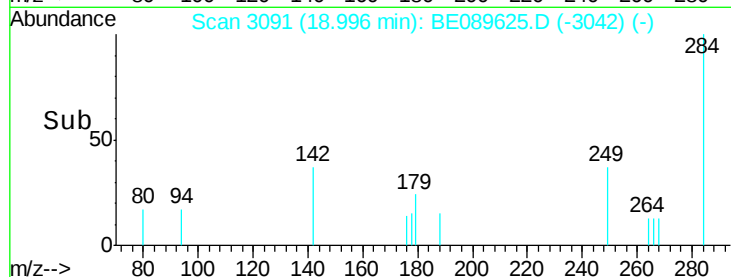
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Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E



Time--> 18.90 19.00 19.10



#15

Pentachlorophenol

Concen: 0.01 ng

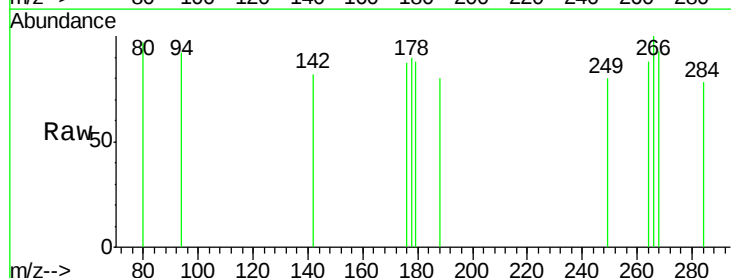
RT: 19.45 min Scan# 3141

Delta R.T. 0.01 min

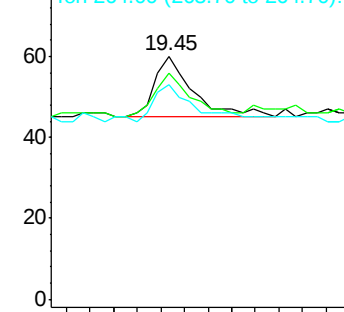
Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

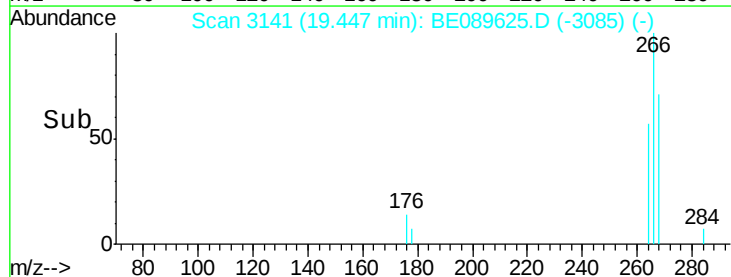
Tgt Ion:	266	Resp:	34
Ion Ratio	Lower	Upper	
266	100		
268	93.3	52.6	79.0#
264	88.3	51.8	77.8#

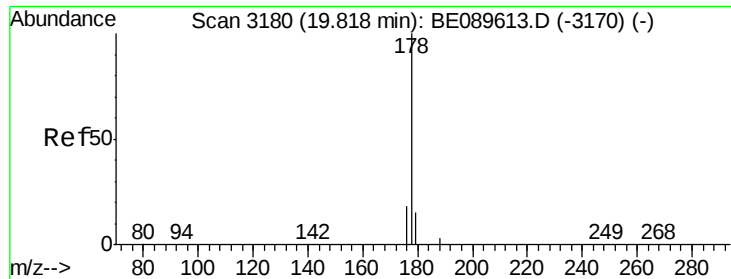


Abundance Ion 265.70 (265.40 to 266.40): E
Ion 268.00 (267.70 to 268.70): E
Ion 264.00 (263.70 to 264.70): E



Time--> 19.40 19.50





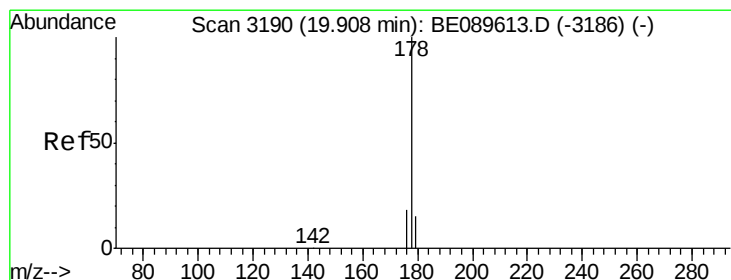
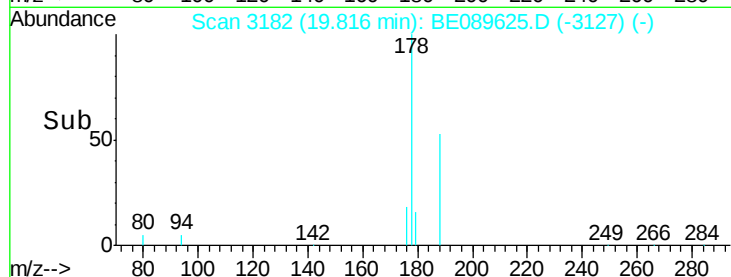
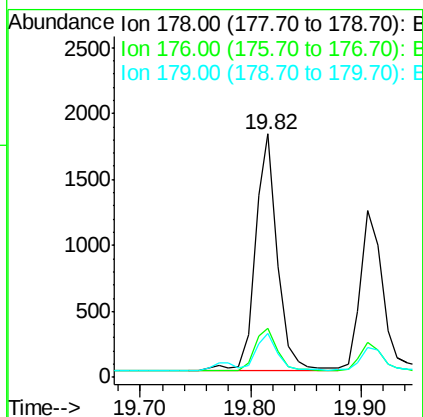
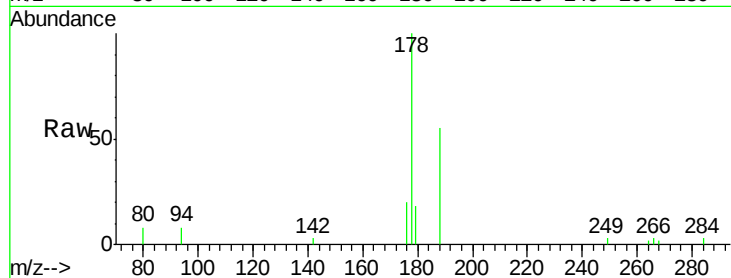
#16
Phenanthrene
Concen: 0.08 ng
RT: 19.82 min Scan# 3182
Delta R.T. -0.00 min
Lab File: BE089625.D
Acq: 18 Feb 2015 19:34

Instrument :
BNA_E
ClientSampleId :
MDL-05-W

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.1	22.7
179	15.3	12.3	18.5

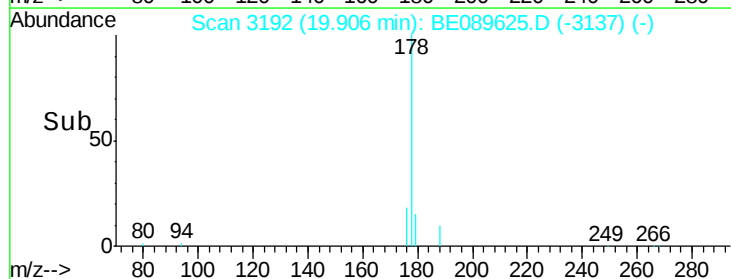
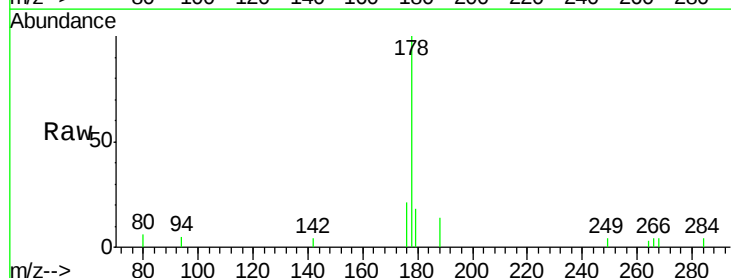
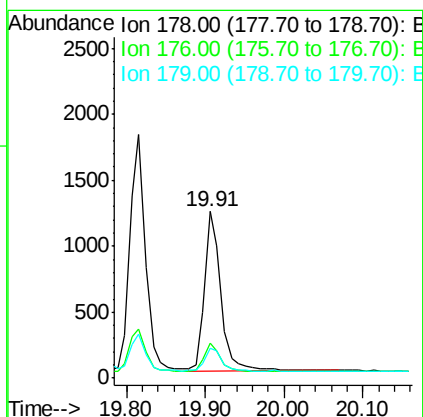
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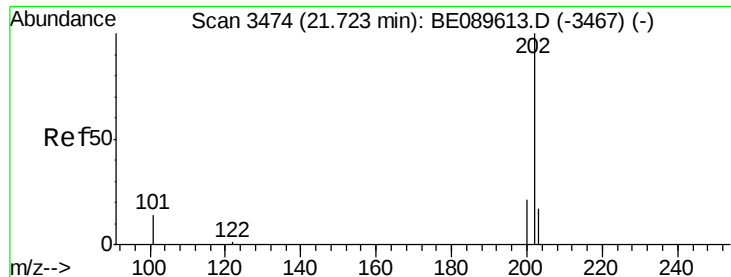
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#17
Anthracene
Concen: 0.06 ng
RT: 19.91 min Scan# 3192
Delta R.T. -0.00 min
Lab File: BE089625.D
Acq: 18 Feb 2015 19:34

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.9	14.6	22.0
179	14.9	12.3	18.5





#18

Fluoranthene

Concen: 0.06 ng

RT: 21.73 min Scan# 3478

Delta R.T. 0.00 min

Lab File: BE089625.D

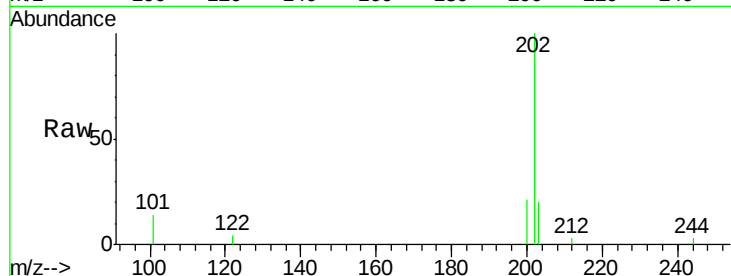
Acq: 18 Feb 2015 19:34

Instrument :

BNA_E

ClientSampleId :

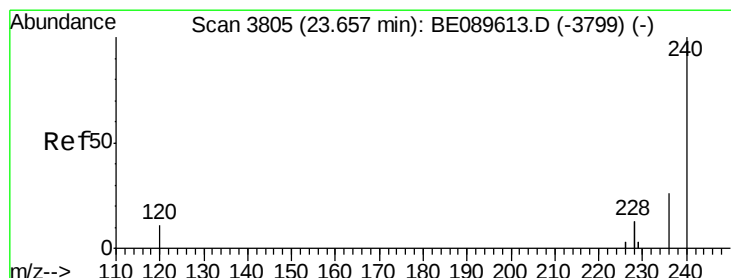
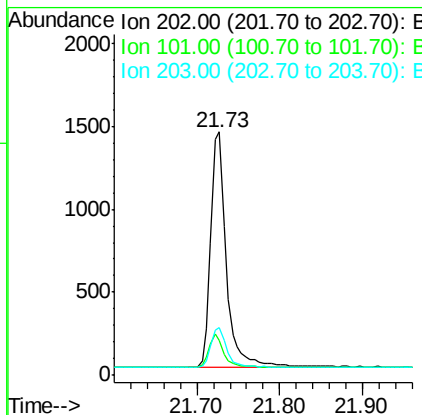
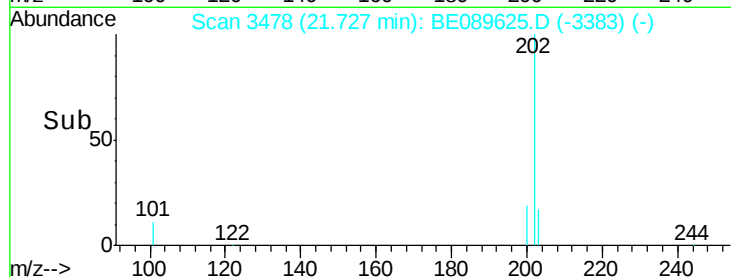
MDL-05-W



Tgt Ion:	202	Resp:	1880
Ion Ratio	Lower	Upper	
202	100		
101	13.6	10.4	15.6
203	17.6	13.9	20.9

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#19

Chrysene-d12

Concen: 5.00 ng

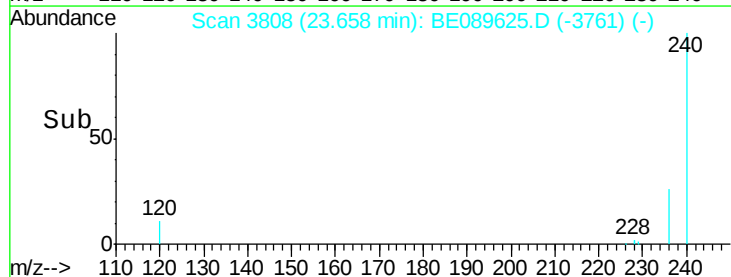
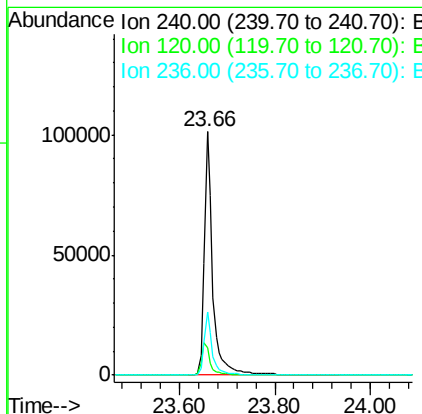
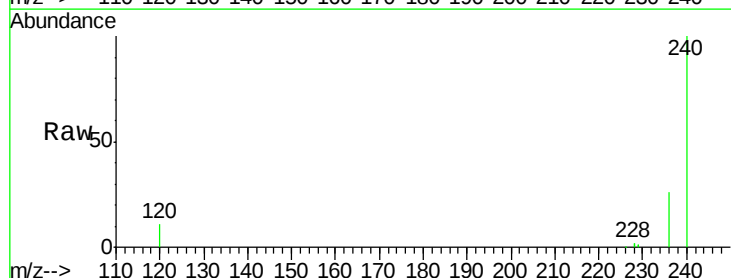
RT: 23.66 min Scan# 3808

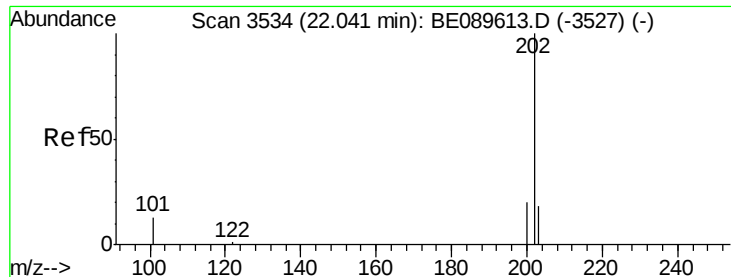
Delta R.T. 0.00 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

Tgt Ion:	240	Resp:	124095
Ion Ratio	Lower	Upper	
240	100		
120	11.2	9.0	13.4
236	25.8	21.0	31.6





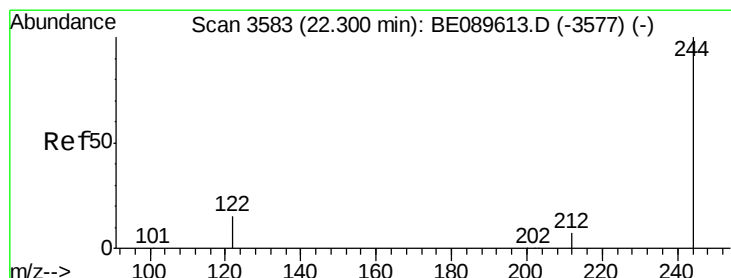
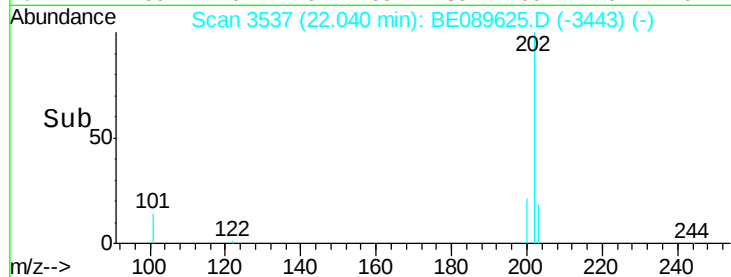
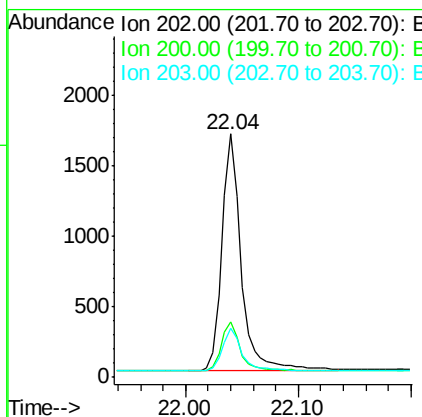
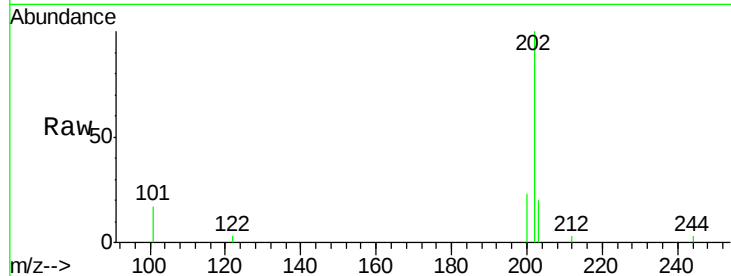
#20
Pyrene
Concen: 0.07 ng
RT: 22.04 min Scan# 3537
Delta R.T. -0.00 min
Lab File: BE089625.D
Acq: 18 Feb 2015 19:34

Instrument :
BNA_E
ClientSampleId :
MDL-05-W

Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.2	16.3	24.5
203	17.5	13.8	20.8

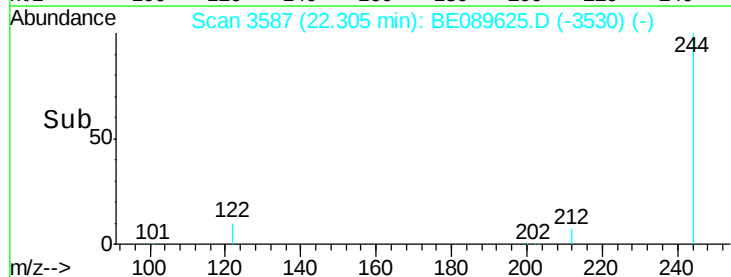
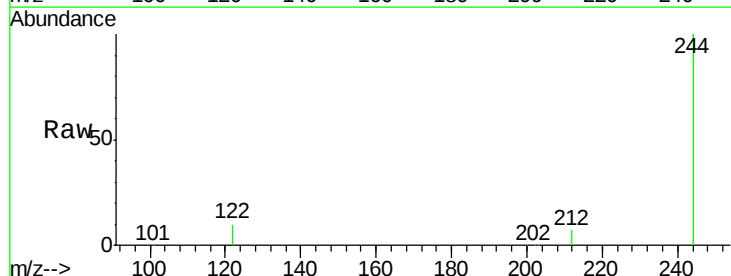
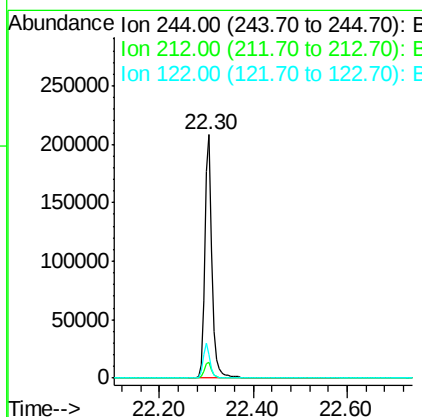
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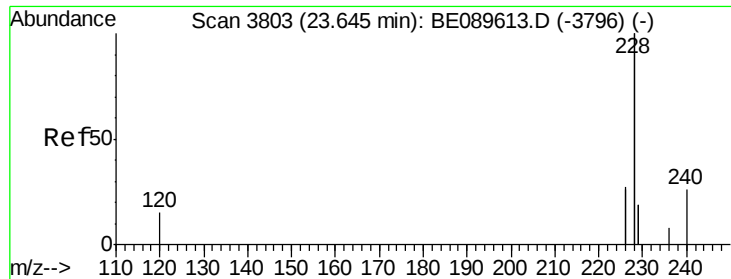
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#21
Terphenyl-d14
Concen: 11.80 ng
RT: 22.30 min Scan# 3587
Delta R.T. 0.00 min
Lab File: BE089625.D
Acq: 18 Feb 2015 19:34

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.8	8.8
122	9.6	11.8	17.8#





#22

Benzo(a)anthracene

Concen: 0.07 ng

RT: 23.65 min Scan# 3807

Delta R.T. 0.01 min

Lab File: BE089625.D

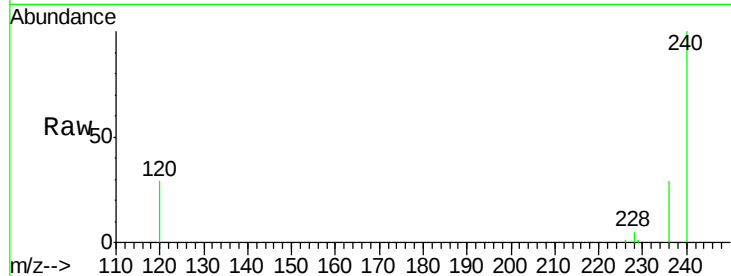
Acq: 18 Feb 2015 19:34

Instrument :

BNA_E

ClientSampleId :

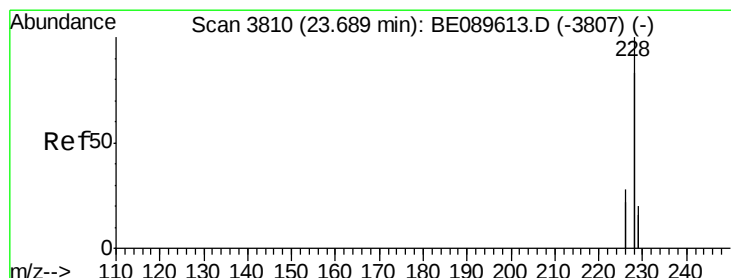
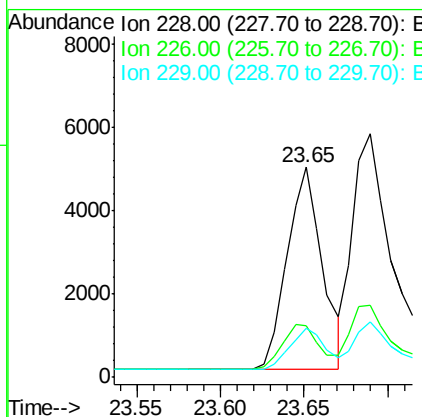
MDL-05-W



Tgt Ion:	228	Resp:	7195
Ion Ratio	Lower	Upper	
228	100		
226	24.8	21.2	31.8
229	23.4	15.2	22.8

Manual Integrations
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#23

Chrysene

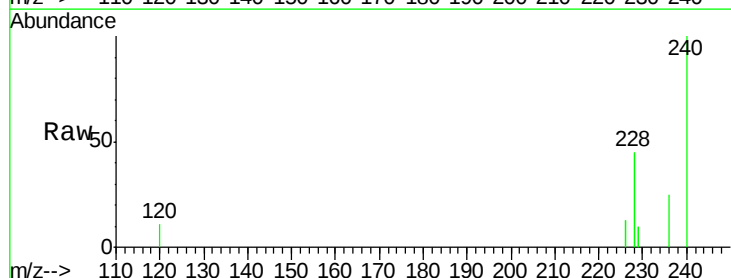
Concen: 0.09 ng

RT: 23.69 min Scan# 3813

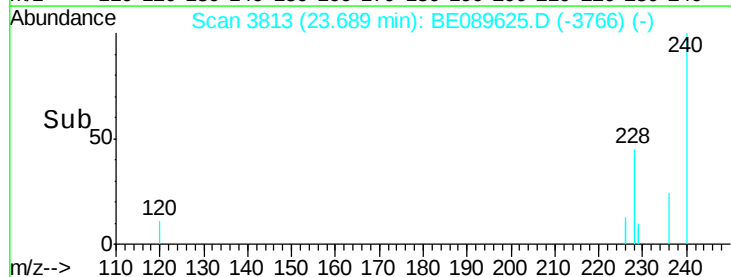
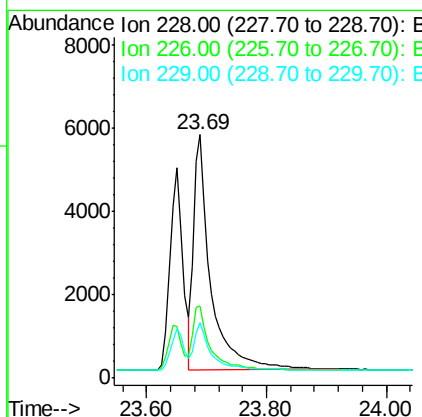
Delta R.T. 0.00 min

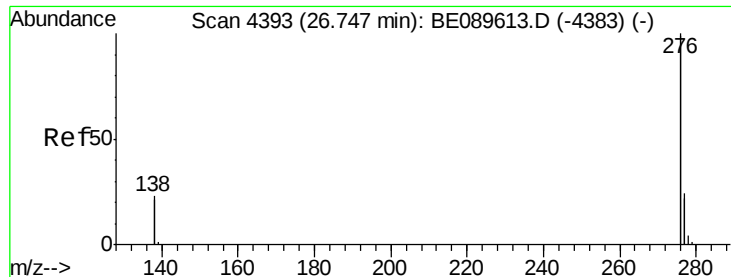
Lab File: BE089625.D

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Tgt Ion:	228	Resp:	11131
Ion Ratio	Lower	Upper	
228	100		
226	29.8	22.2	33.4
229	23.0	16.0	24.0





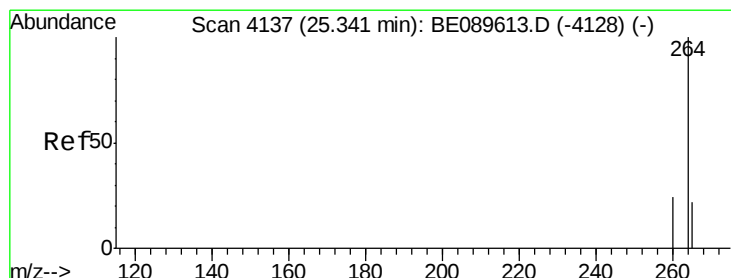
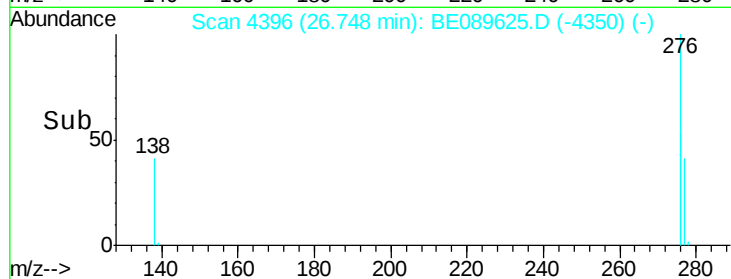
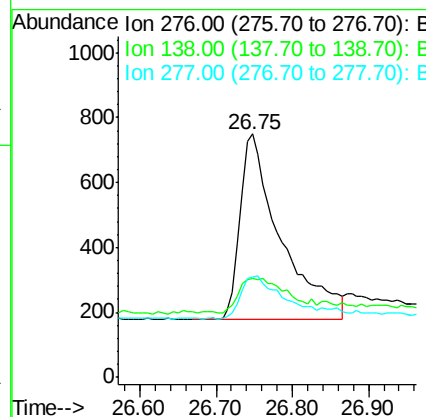
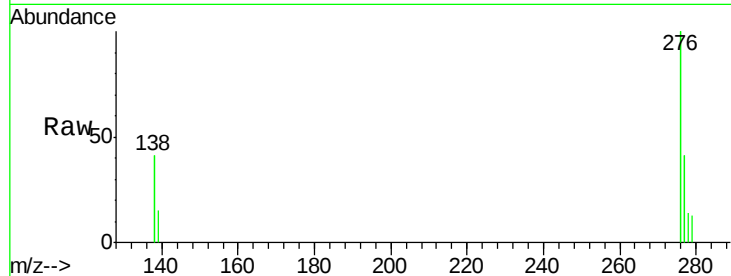
#24
Indeno(1,2,3-cd)pyrene
Concen: 0.19 ng
RT: 26.75 min Scan# 4396
Delta R.T. 0.00 min
Lab File: BE089625.D
Acq: 18 Feb 2015 19:34

Instrument :
BNA_E
ClientSampleId :
MDL-05-W

Tgt Ion	Ratio	Lower	Upper
276	100		
138	20.8	21.4	32.2#
277	27.2	19.9	29.9

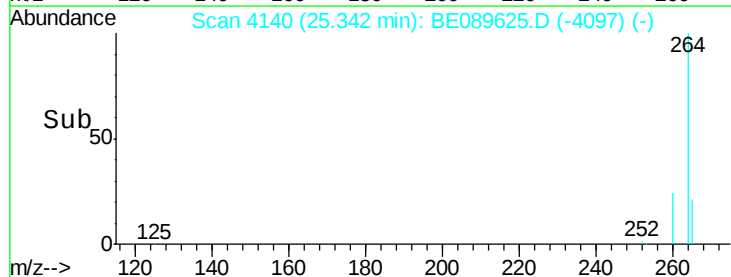
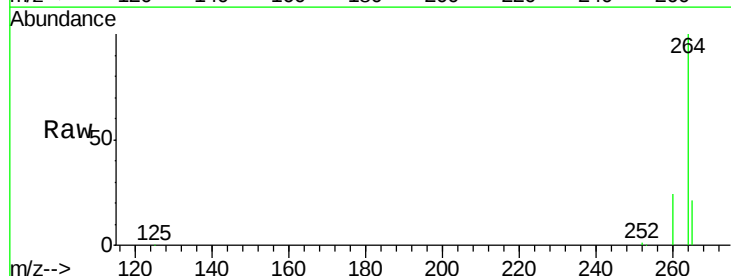
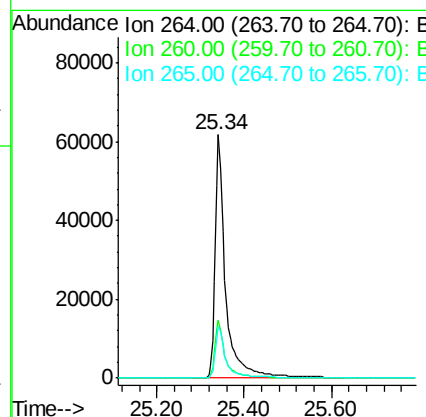
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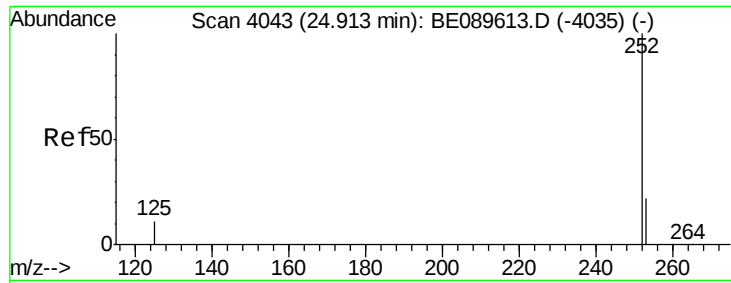
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#25
Perylene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4140
Delta R.T. 0.00 min
Lab File: BE089625.D
Acq: 18 Feb 2015 19:34

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.0	28.6
265	21.4	17.4	26.0





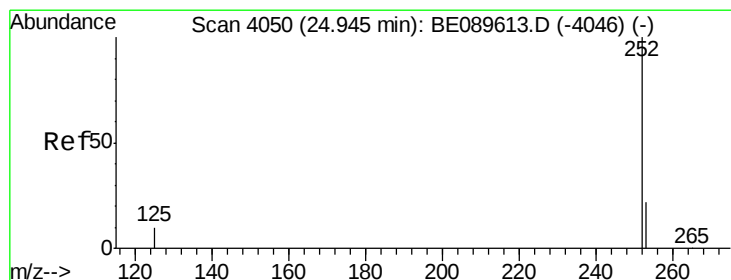
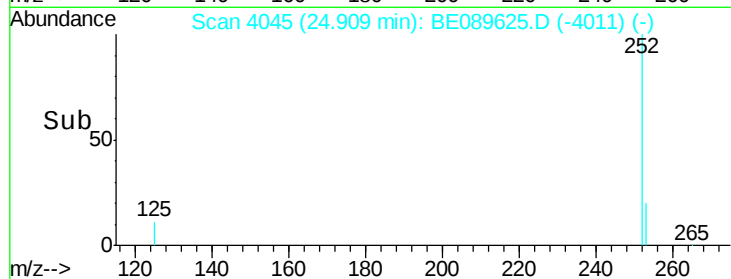
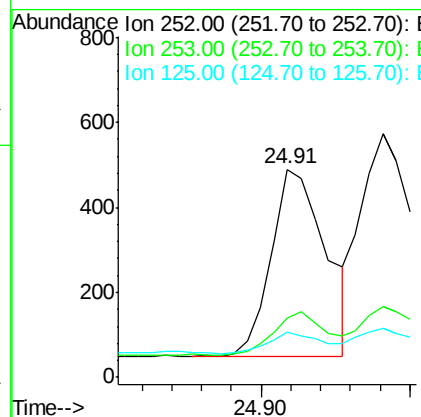
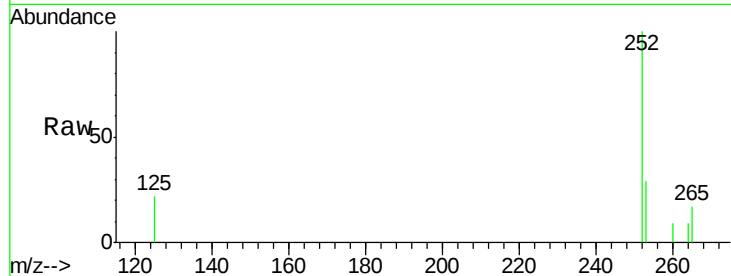
#26
Benzo(b)fluoranthene
Concen: 0.29 ng
RT: 24.91 min Scan# 4045
Delta R.T. -0.00 min
Lab File: BE089625.D
Acq: 18 Feb 2015 19:34

Instrument :
BNA_E
ClientSampleId :
MDL-05-W

Tgt Ion	Ratio	Lower	Upper
252	100		
253	28.6	17.6	26.4#
125	21.6	8.8	13.2#

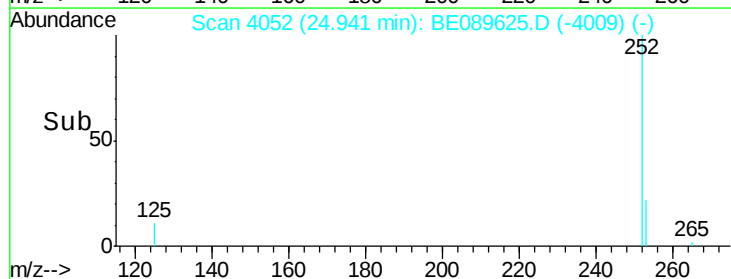
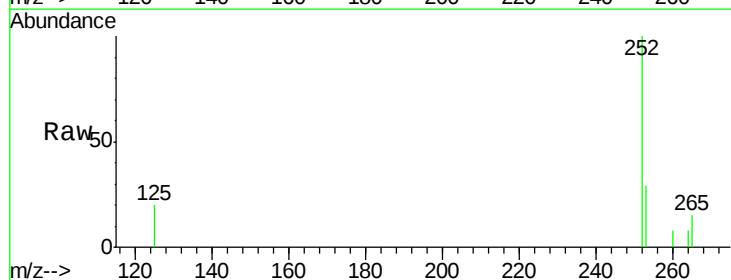
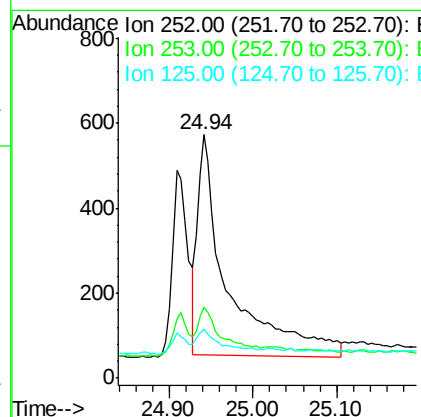
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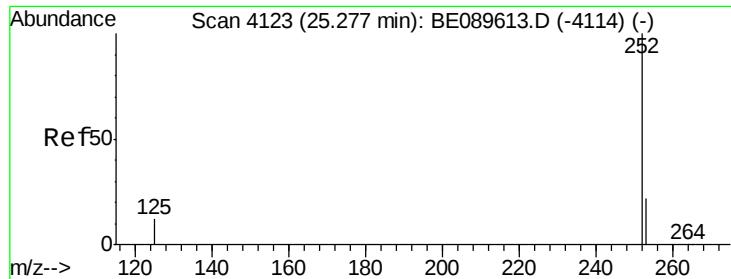
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#27
Benzo(k)fluoranthene
Concen: 0.05 ng m
RT: 24.94 min Scan# 4052
Delta R.T. -0.00 min
Lab File: BE089625.D
Acq: 18 Feb 2015 19:34

Tgt Ion	Ratio	Lower	Upper
252	100		
253	29.1	17.7	26.5#
125	20.2	8.8	13.2#





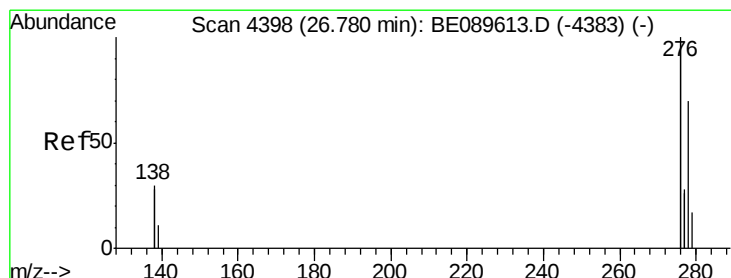
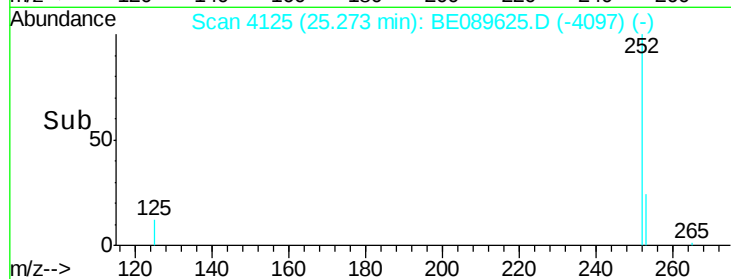
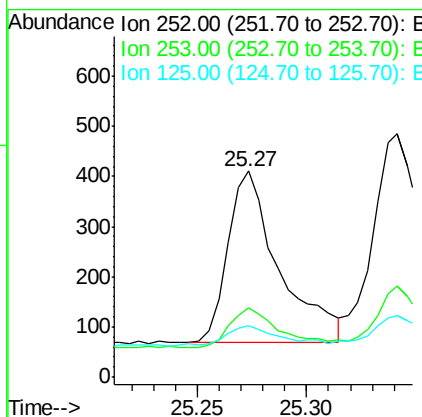
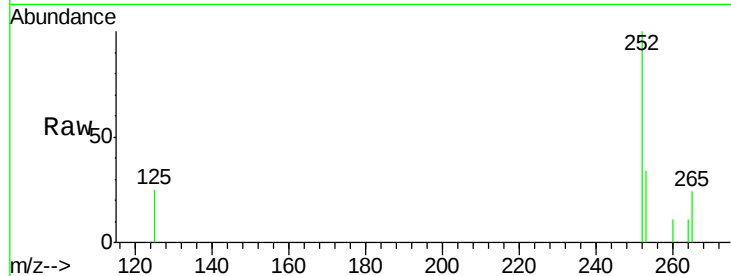
#28
Benzo(a)pyrene
Concen: 0.26 ng
RT: 25.27 min Scan# 4125
Delta R.T. -0.00 min
Lab File: BE089625.D
Acq: 18 Feb 2015 19:34

Instrument :
BNA_E
ClientSampleId :
MDL-05-W

Tgt Ion	Ratio	Lower	Upper
252	100		
253	33.7	18.1	27.1#
125	25.1	9.6	14.4#

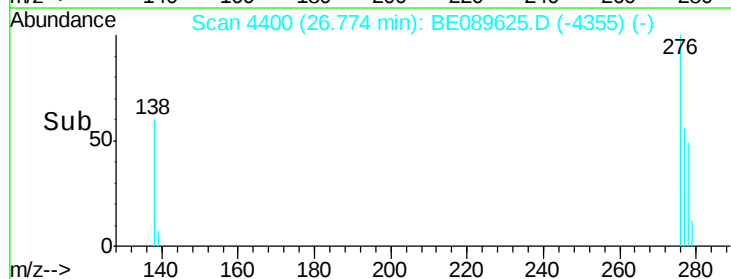
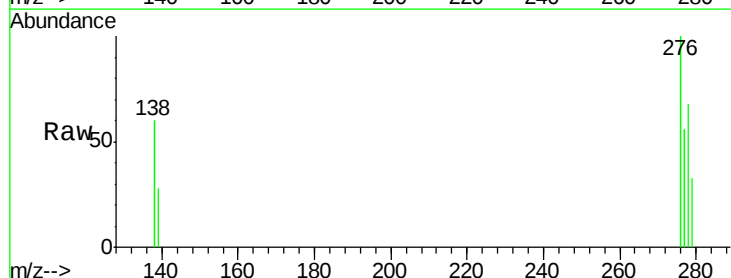
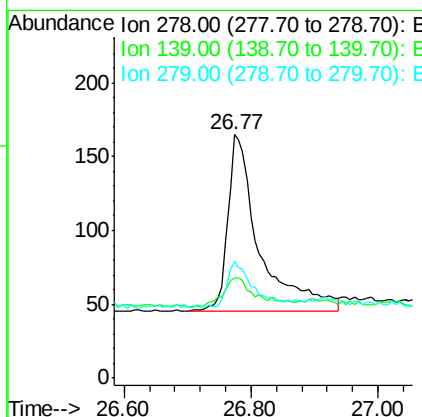
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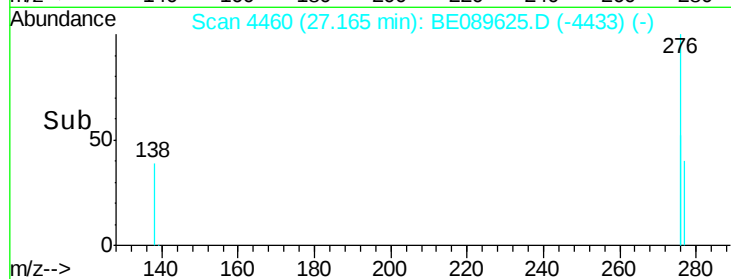
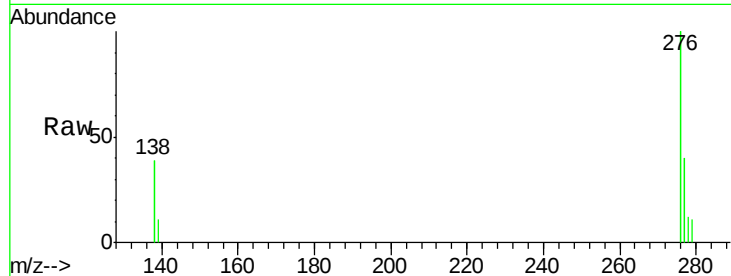
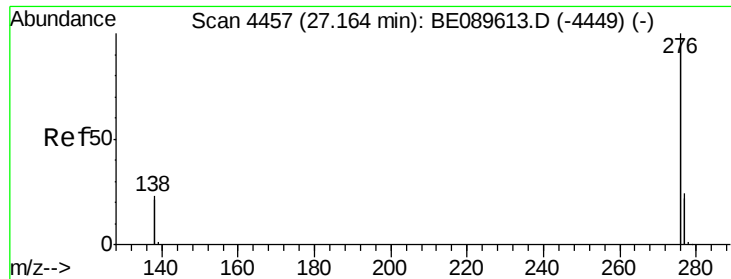
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#29
Dibenzo(a,h)anthracene
Concen: 0.25 ng
RT: 26.77 min Scan# 4400
Delta R.T. -0.01 min
Lab File: BE089625.D
Acq: 18 Feb 2015 19:34

Tgt Ion	Ratio	Lower	Upper
278	100		
139	41.2	13.7	20.5#
279	47.9	19.7	29.5#





#30

Benzo(g,h,i)perylene

Concen: 0.16 ng

RT: 27.16 min Scan# 4460

Delta R.T. 0.00 min

Lab File: BE089625.D

Acq: 18 Feb 2015 19:34

Instrument :

BNA_E

ClientSampleId :

MDL-05-W

Tgt	Ion	Ratio	Lower	Upper
276	100			
277	39.6	19.1	28.7#	
138	38.5	18.7	28.1#	

Manual Integrations
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