

Data Path : Z:\HPCHEM1\BNA E\DATA\BE020416\
 Data File : BE091392.D
 Acq On : 4 Feb 2016 12:53
 Operator : UM/IZ
 Sample : G4825-06
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 LOQ-WATER2016-02

Manual Integrations
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 2/5/2016 3:38:20 PM

Quant Time: Feb 05 12:47:30 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE020216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 03 00:27:53 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	51427	5.00	ng	0.00
4) Naphthalene-d8	9.55	136	237033	5.00	ng	0.00
8) Acenaphthene-d10	13.35	164	150615	5.00	ng	0.00
14) Phenanthrene-d10	16.09	188	395901	5.00	ng	0.00
18) Chrysene-d12	20.21	240	423626	5.00	ng	0.00
24) Perylene-d12	22.10	264	385544	5.00	ng	0.00
System Monitoring Compounds						
2) 2-Fluorophenol	4.91	112	78400	6.46	ng	-0.04
3) Phenol-d6	6.54	99	107441	6.26	ng	-0.03
5) Nitrobenzene-d5	8.17	82	43632	2.90	ng	0.00
9) 2,4,6-Tribromophenol	14.90	330	27088	3.86	ng	0.00
10) 2-Fluorobiphenyl	12.02	172	150739	3.84	ng	0.00
20) Terphenyl-d14	18.62	244	260513	4.16	ng	0.00
Target Compounds						Qvalue
6) Naphthalene	9.60	128	7385	0.14	ng	96
7) 2-Methylnaphthalene	11.17	142	4133	0.25	ng	97
11) Acenaphthylene	13.12	152	24699	0.27	ng	99
12) Acenaphthene	13.42	154	5445	0.13	ng	98
13) Fluorene	14.42	166	6640	0.12	ng	99
15) Phenanthrene	16.13	178	14440	0.14	ng	98
16) Anthracene	16.22	178	10508	0.12	ng	100
17) Fluoranthene	18.10	202	11803	0.22	ng	100
19) Pyrene	18.49	202	12057	0.13	ng	99
21) Benzo(a)anthracene	20.19	228	9615	0.27	ng	98
22) Chrysene	20.25	228	17781m	0.10	ng	
23) Indeno(1,2,3-cd)pyrene	23.72	276	9037m	0.25	ng	
25) Benzo(b)fluoranthene	21.55	252	9423	0.24	ng	98
26) Benzo(k)fluoranthene	21.58	252	11976	0.14	ng	97
27) Benzo(a)pyrene	22.01	252	7636	0.25	ng	92
28) Dibenzo(a,h)anthracene	23.68	278	6980	0.33	ng	# 93
29) Benzo(g,h,i)perylene	24.27	276	10192	0.25	ng	95

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

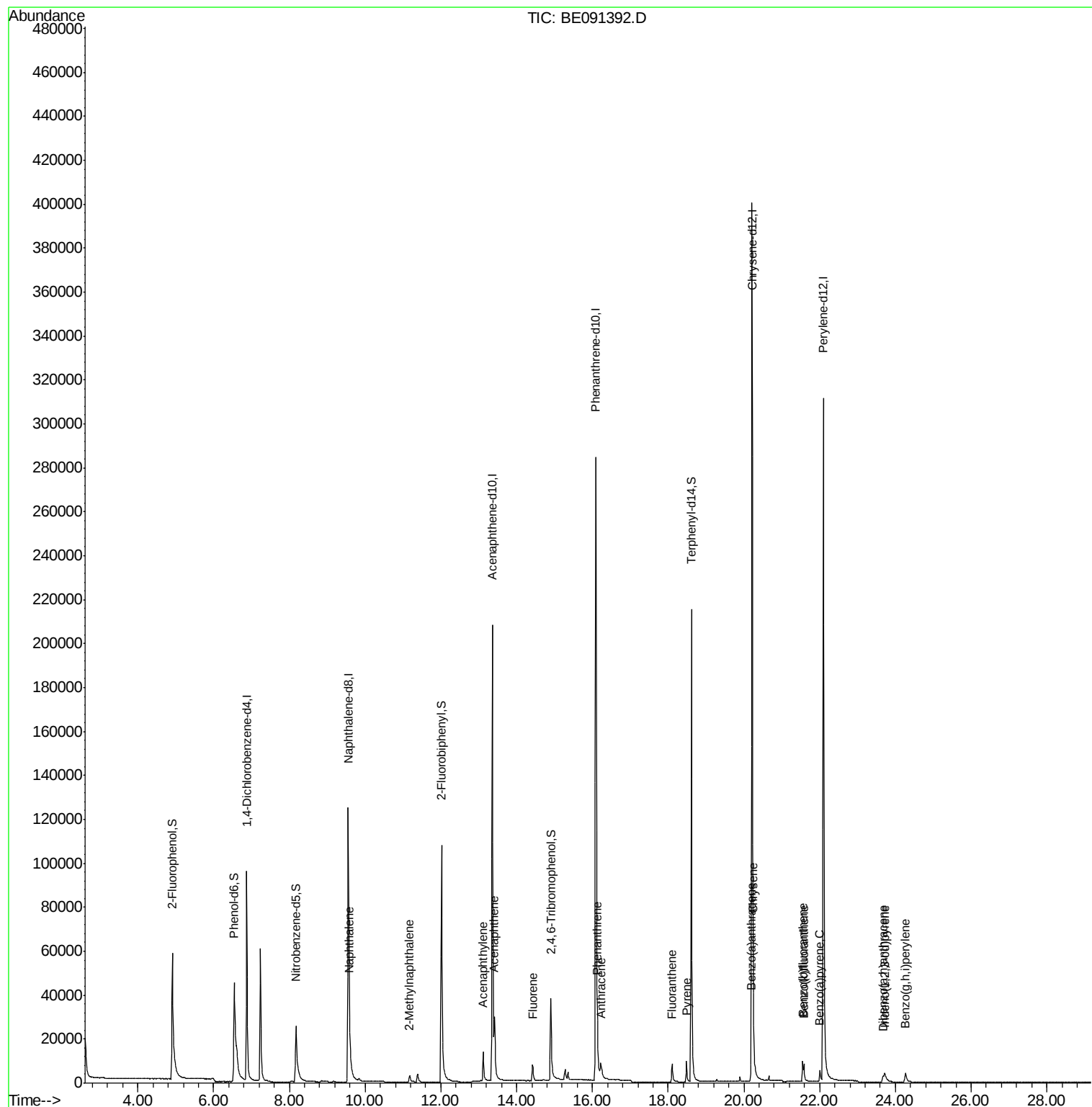
Data Path : Z:\HPCHEM1\BNA E\DATA\BE020416\
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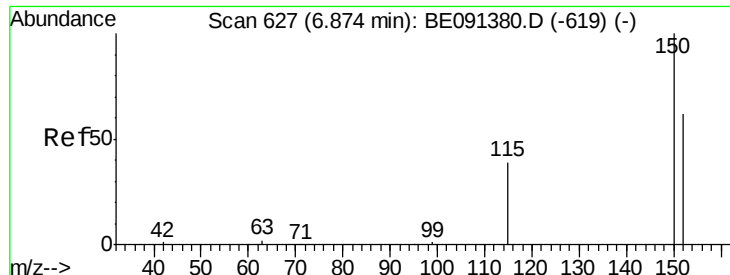
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#1

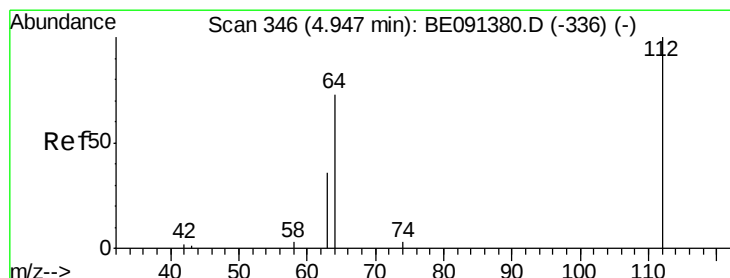
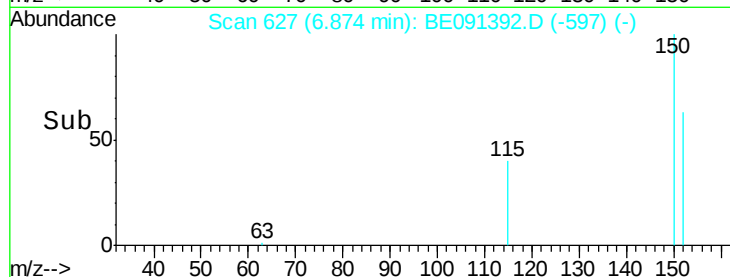
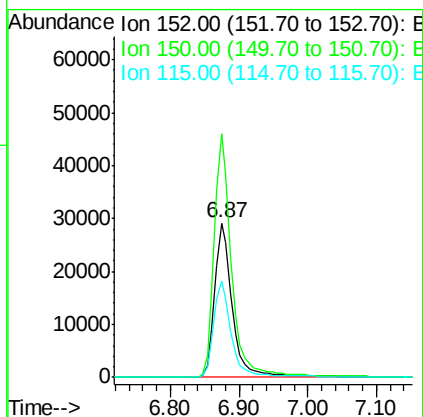
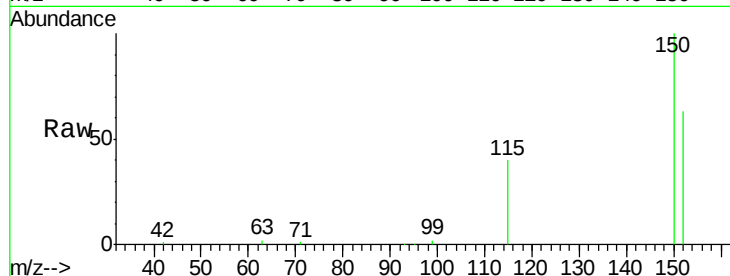
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 6.87 min Scan# 627
Delta R.T. 0.00 min
Lab File: BE091392.D
Acq: 4 Feb 2016 12:53

Instrument :
BNA_E
ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
152	100		
150	157.7	128.9	193.3
115	62.6	50.9	76.3

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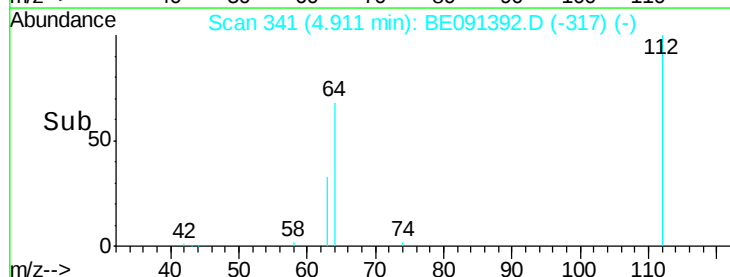
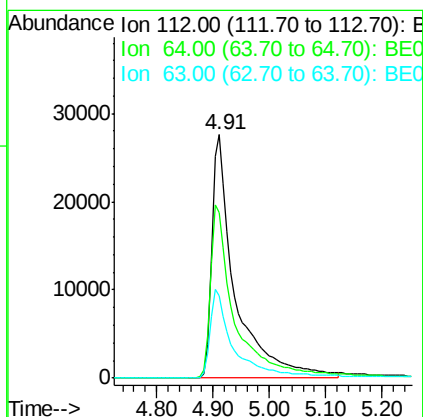
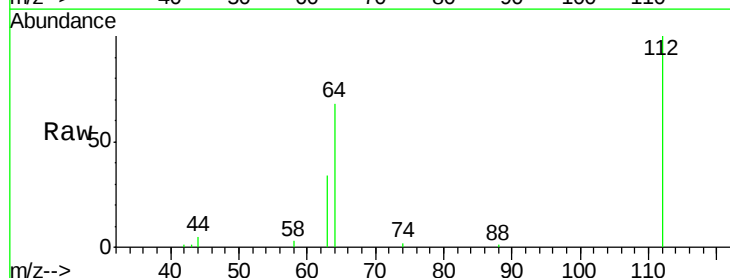
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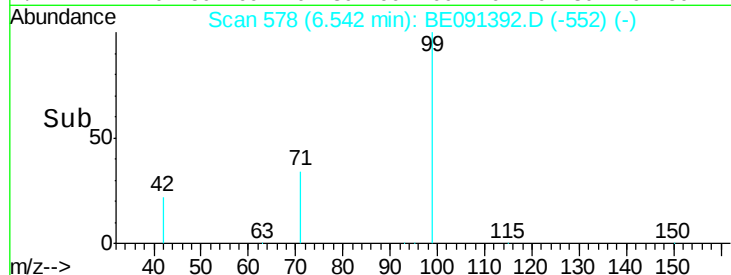
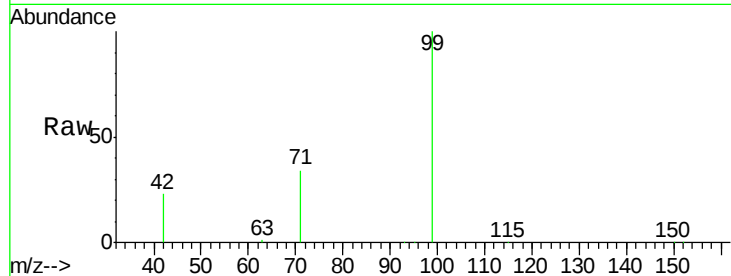
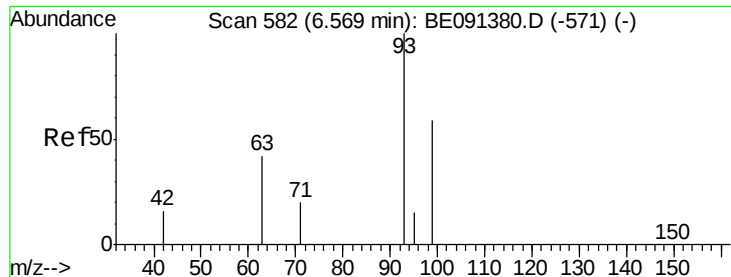


#2

2-Fluorophenol
Concen: 6.46 ng
RT: 4.91 min Scan# 341
Delta R.T. -0.04 min
Lab File: BE091392.D
Acq: 4 Feb 2016 12:53

Tgt Ion	Ratio	Lower	Upper
112	100		
64	72.8	60.5	90.7
63	36.5	29.8	44.8





#3

Phenol-d6

Concen: 6.26 ng

RT: 6.54 min Scan# 578

Delta R.T. -0.03 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

Tot Ion:	99	Resp:	107441
Ion Ratio	Lower	Upper	
99	100		
42	15.8	13.3	19.9
71	33.6	25.6	38.4

Instrument :

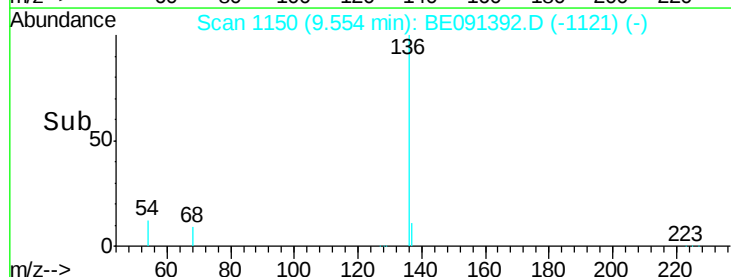
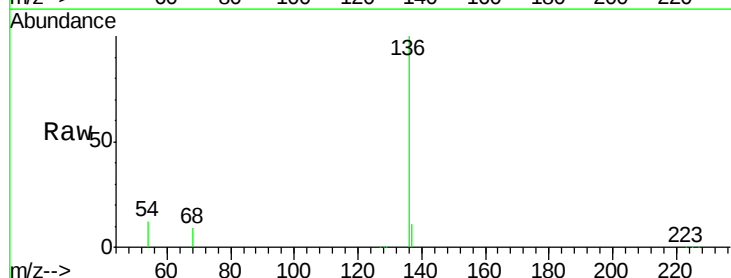
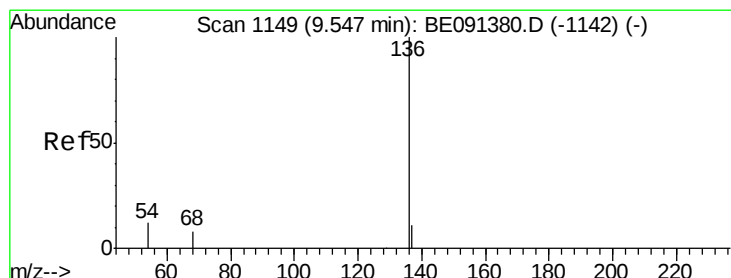
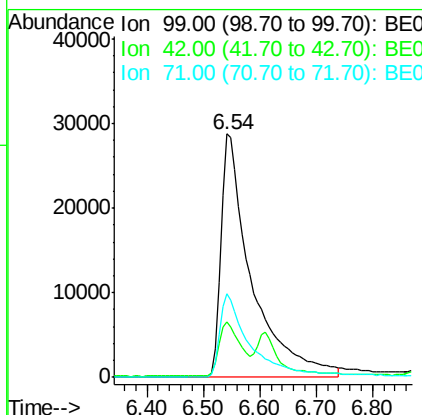
BNA_E

ClientSampleId :

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#4

Naphthalene-d8

Concen: 5.00 ng

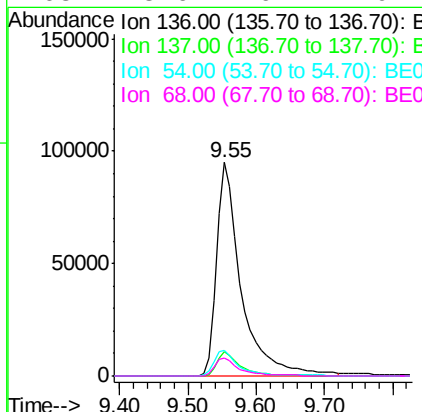
RT: 9.55 min Scan# 1150

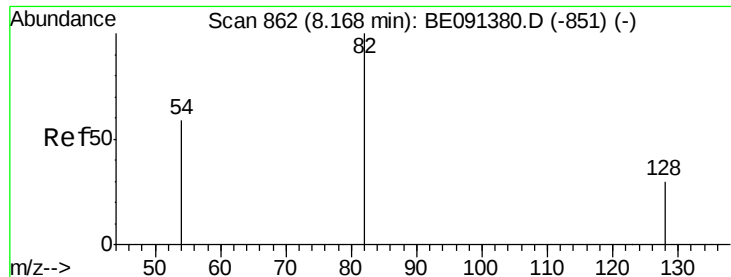
Delta R.T. 0.01 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

Tgt Ion:	136	Resp:	237033
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.7	13.1
54	12.1	9.3	13.9
68	8.6	6.7	10.1





#5

Nitrobenzene-d5

Concen: 2.90 ng

RT: 8.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

Instrument :

BNA_E

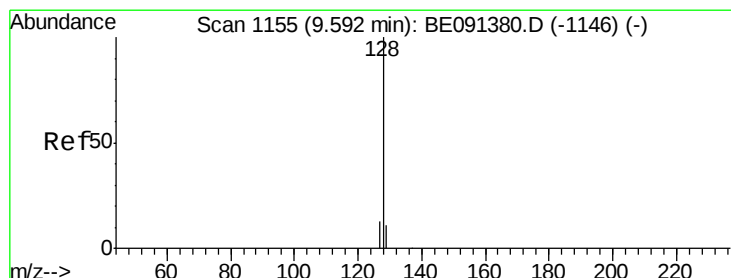
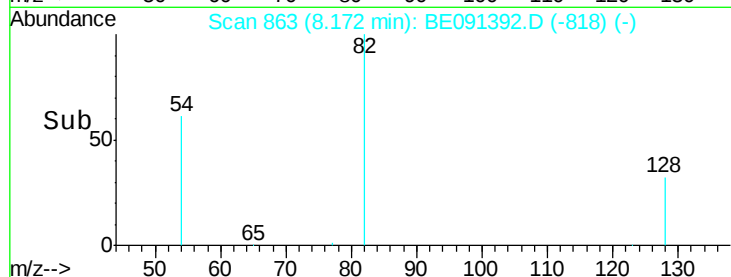
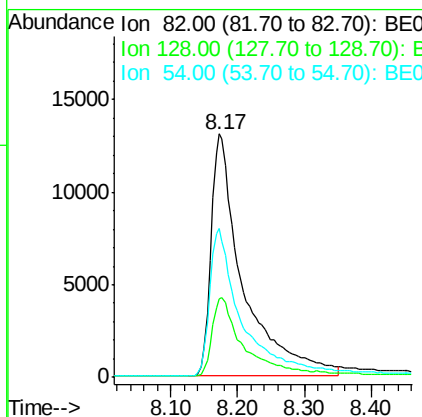
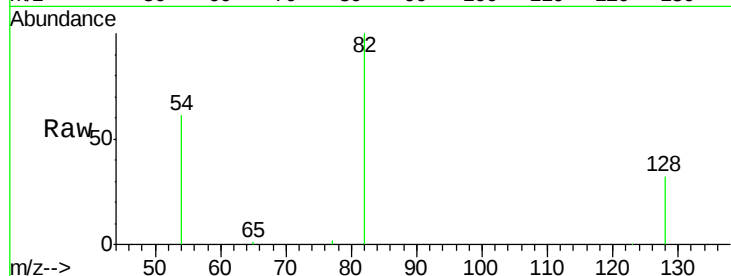
ClientSampleId :

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Tot Ion:	82	Resp:	43632
Ion Ratio	Lower	Upper	
82	100		
128	32.0	25.0	37.4
54	61.3	48.1	72.1

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#6

Naphthalene

Concen: 0.14 ng

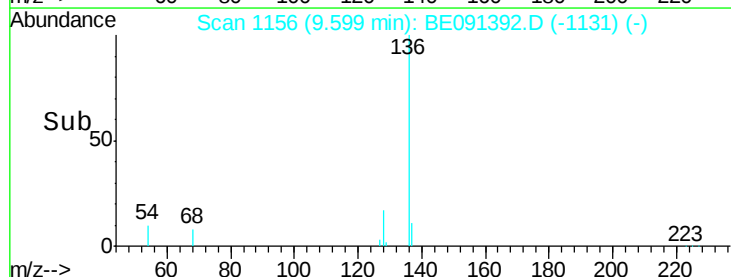
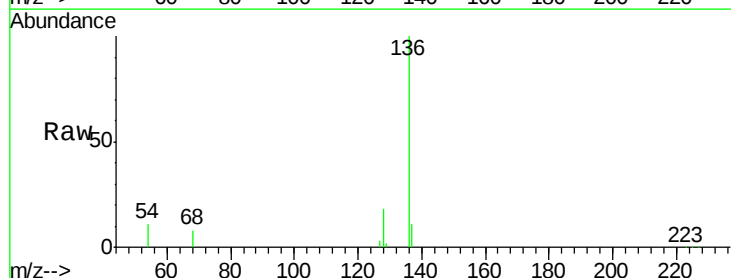
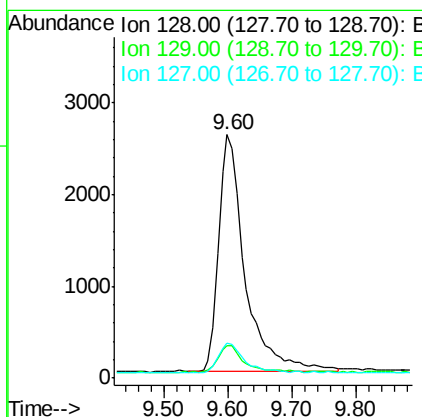
RT: 9.60 min Scan# 1156

Delta R.T. 0.01 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

Tgt Ion:	128	Resp:	7385
Ion Ratio	Lower	Upper	
128	100		
129	13.4	9.1	13.7
127	14.3	10.5	15.7





#7

2-Methylnaphthalene

Concen: 0.25 ng

RT: 11.17 min Scan# 1419

Delta R.T. 0.05 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

Instrument :

BNA_E

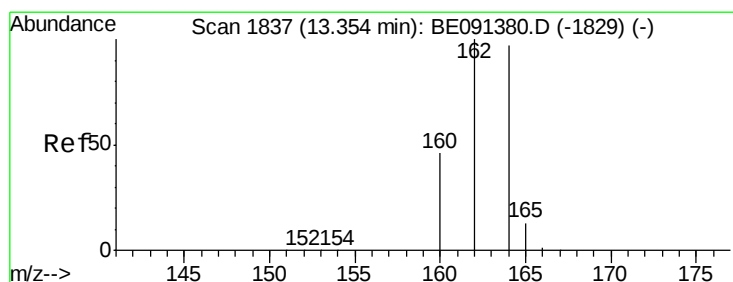
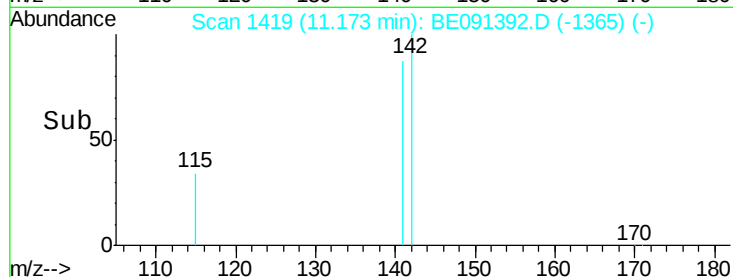
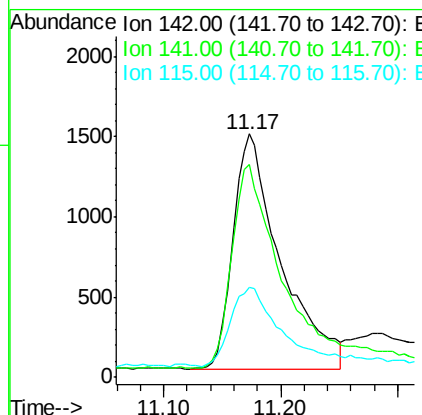
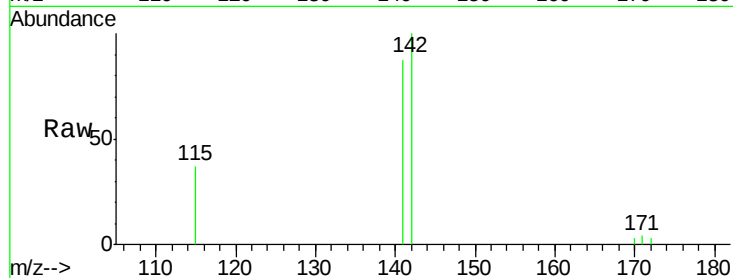
ClientSampleId :

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Tot Ion:	142	Resp:	4133
Ion Ratio	Lower	Upper	
142	100		
141	87.5	72.3	108.5
115	37.2	30.5	45.7

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#8

Acenaphthene-d10

Concen: 5.00 ng

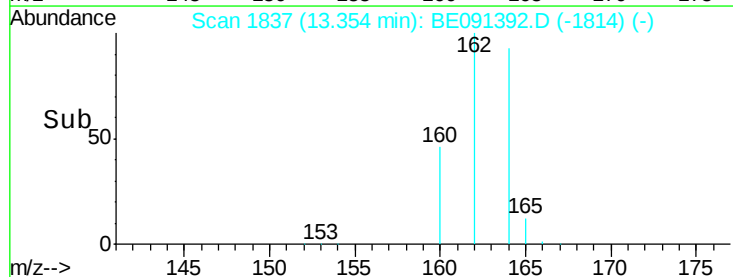
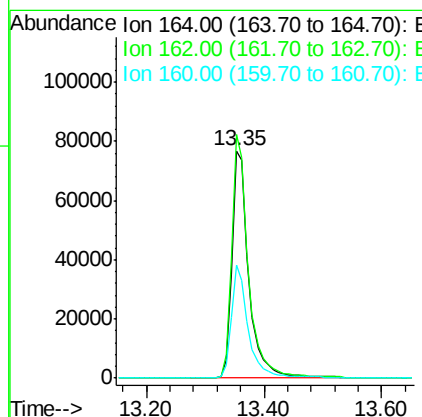
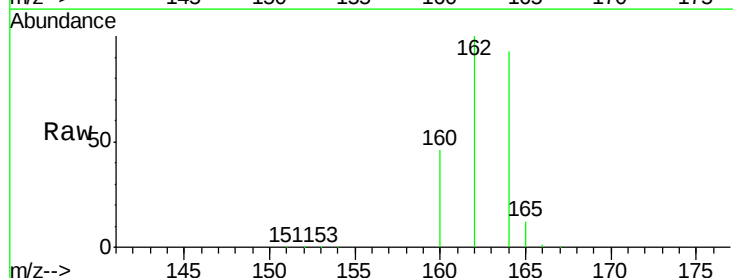
RT: 13.35 min Scan# 1837

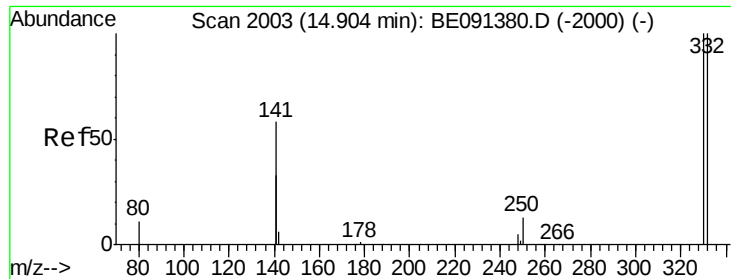
Delta R.T. -0.00 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

Tgt Ion:	164	Resp:	150615
Ion Ratio	Lower	Upper	
164	100		
162	107.2	82.2	123.2
160	49.6	37.8	56.8





#9

2,4,6-Tribromophenol

Concen: 3.86 ng

RT: 14.90 min Scan# 2003

Delta R.T. 0.00 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

Instrument :

BNA_E

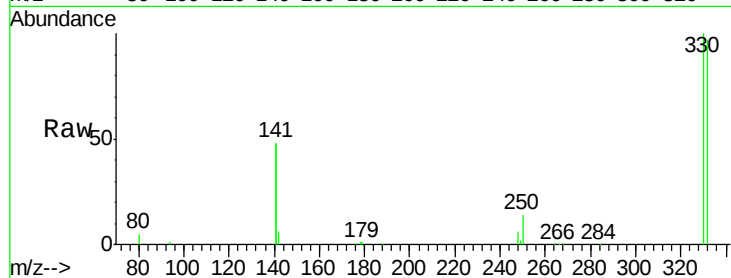
ClientSampleId :

LOQ-WATER2016-02

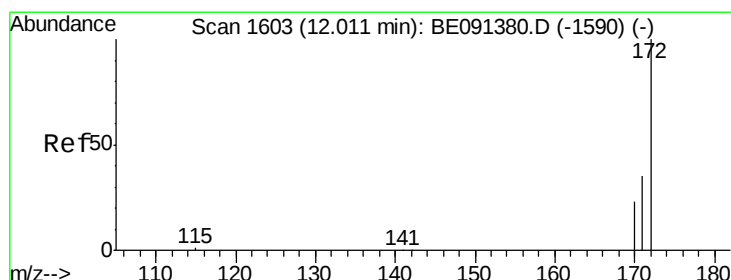
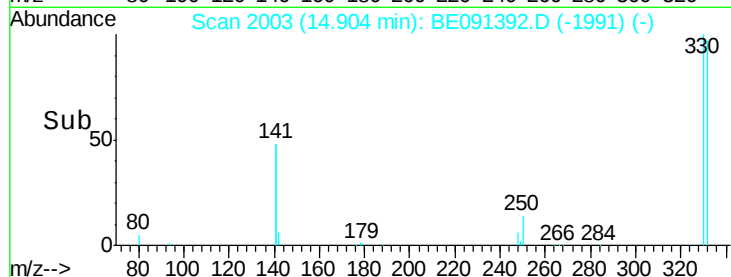
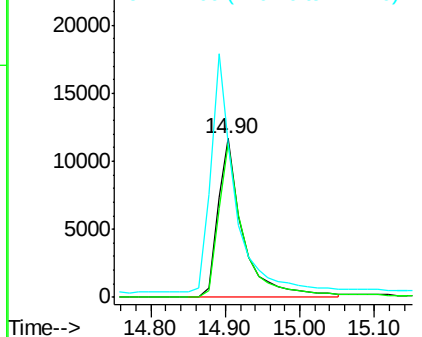
Tot Ion:	330	Resp:	27088
Ion Ratio	Lower	Upper	
330	100		
332	96.3	78.8	118.2
141	145.6	105.1	157.7

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Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E



#10

2-Fluorobiphenyl

Concen: 3.84 ng

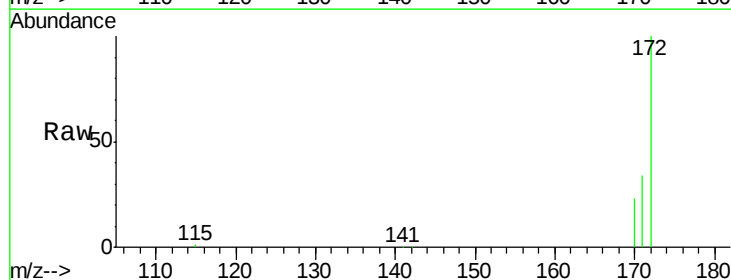
RT: 12.02 min Scan# 1604

Delta R.T. 0.00 min

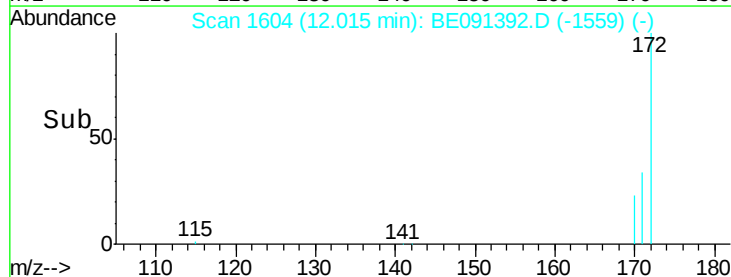
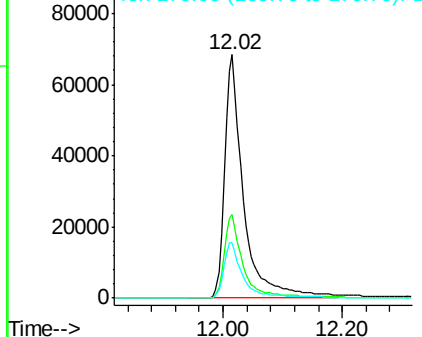
Lab File: BE091392.D

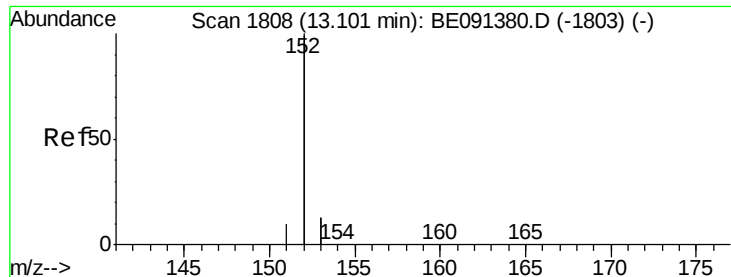
Acq: 4 Feb 2016 12:53

Tgt Ion:	172	Resp:	150739
Ion Ratio	Lower	Upper	
172	100		
171	34.5	27.8	41.8
170	22.9	18.6	28.0



Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E





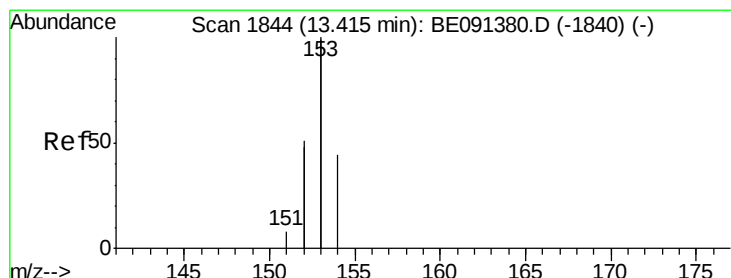
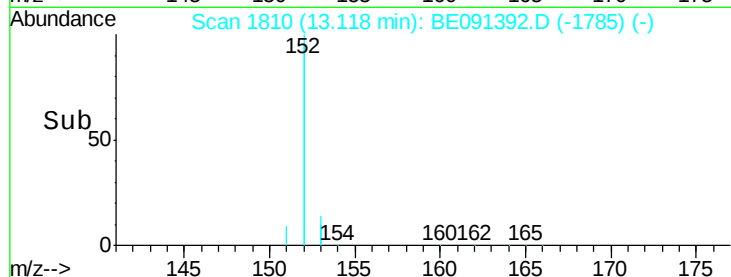
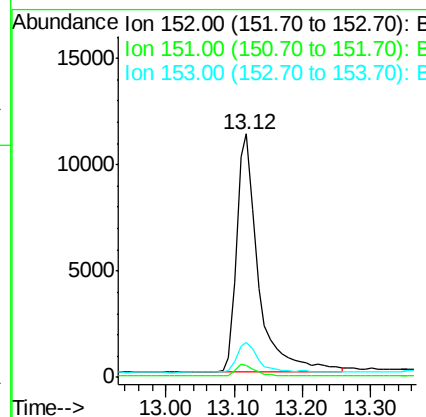
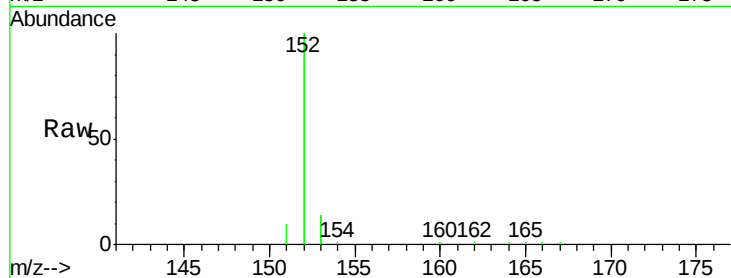
#11
Acenaphthylene
Concen: 0.27 ng
RT: 13.12 min Scan# 1810
Delta R.T. 0.02 min
Lab File: BE091392.D
Acq: 4 Feb 2016 12:53

Instrument :
BNA_E
ClientSampleId :
LOQ-WATER2016-02

Tot Ion	Ratio	Lower	Upper
152	100		
151	5.0	3.8	5.8
153	13.1	10.2	15.4

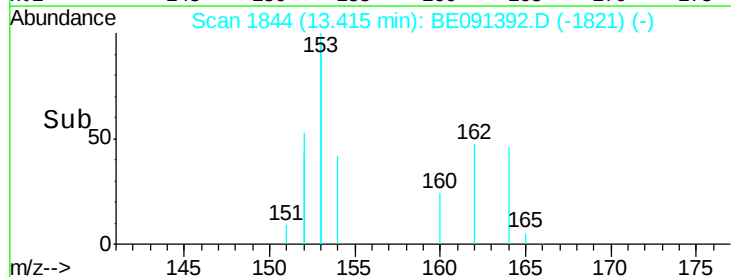
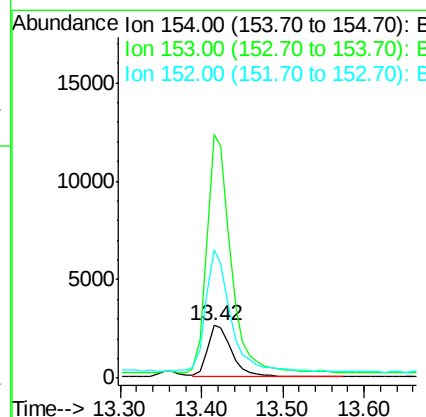
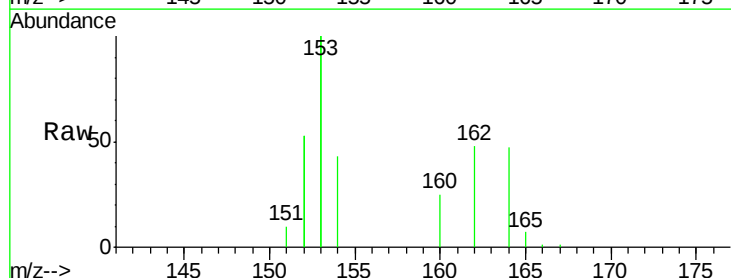
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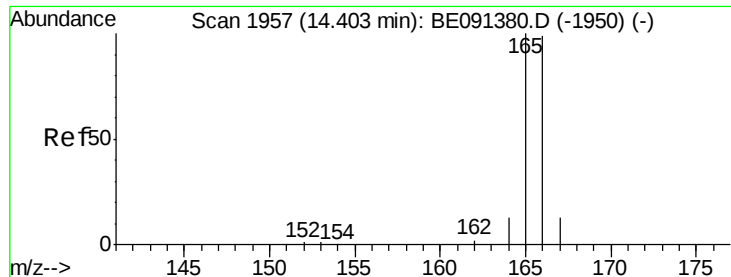
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#12
Acenaphthene
Concen: 0.13 ng
RT: 13.42 min Scan# 1844
Delta R.T. -0.00 min
Lab File: BE091392.D
Acq: 4 Feb 2016 12:53

Tgt Ion	Ratio	Lower	Upper
154	100		
153	458.9	369.8	554.8
152	238.5	194.4	291.6





#13

Fluorene

Concen: 0.12 ng

RT: 14.42 min Scan# 1959

Delta R.T. 0.02 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

Instrument :

BNA_E

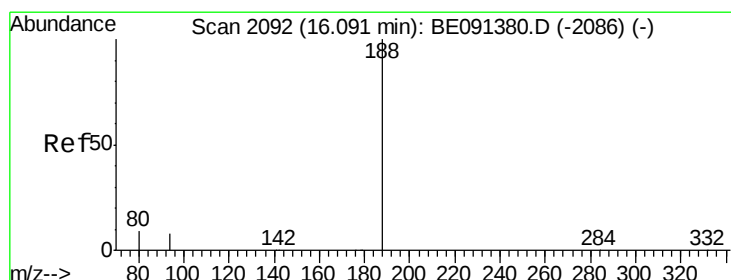
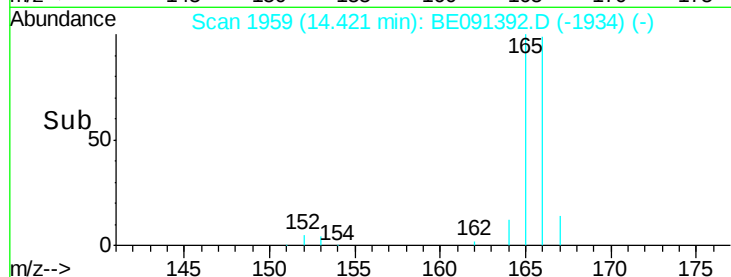
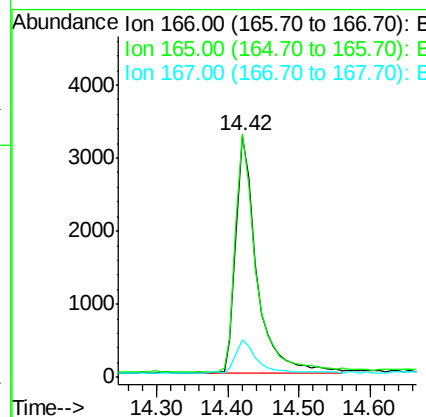
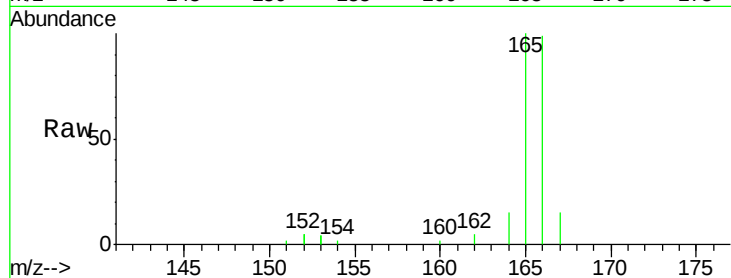
ClientSampleId :

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Tot Ion:	166	Resp:	6640
Ion Ratio	Lower	Upper	
166	100		
165	99.8	79.3	118.9
167	14.1	10.6	16.0

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#14

Phenanthrene-d10

Concen: 5.00 ng

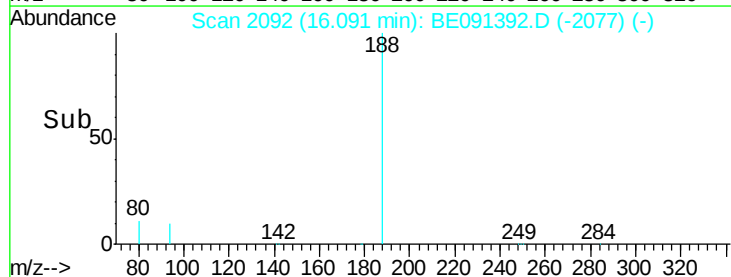
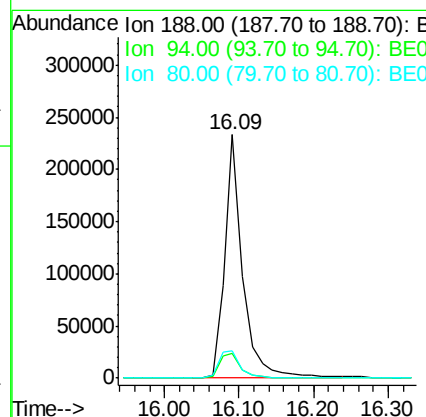
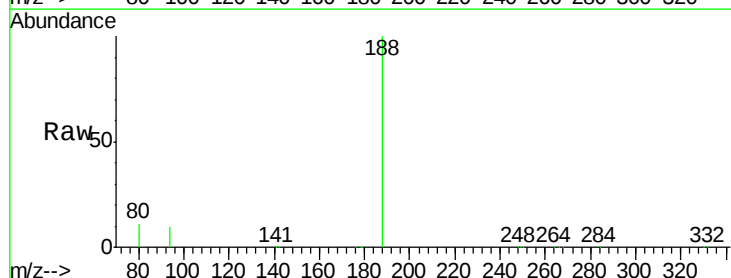
RT: 16.09 min Scan# 2092

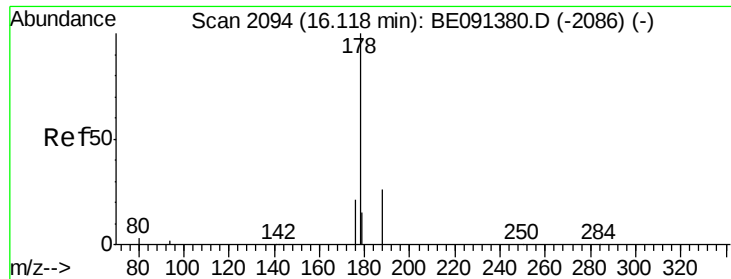
Delta R.T. -0.00 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

Tgt Ion:	188	Resp:	395901
Ion Ratio	Lower	Upper	
188	100		
94	10.2	6.6	10.0#
80	11.0	7.0	10.6#





#15

Phenanthrene

Concen: 0.14 ng

RT: 16.13 min Scan# 2095

Delta R.T. 0.01 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

Instrument :

BNA_E

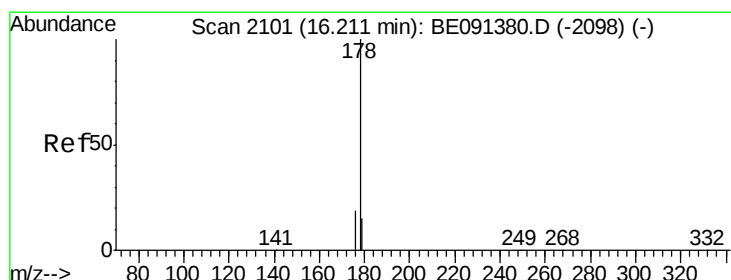
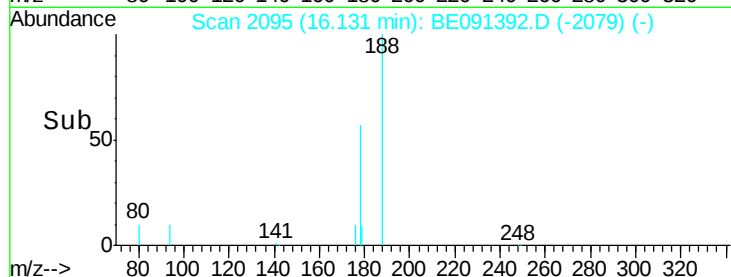
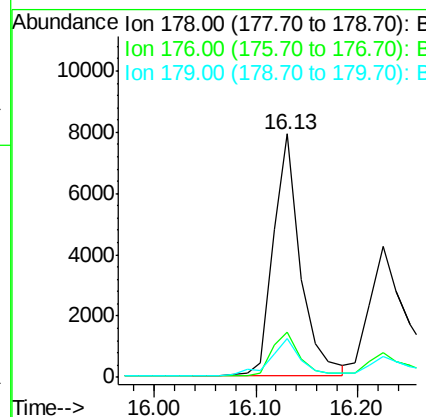
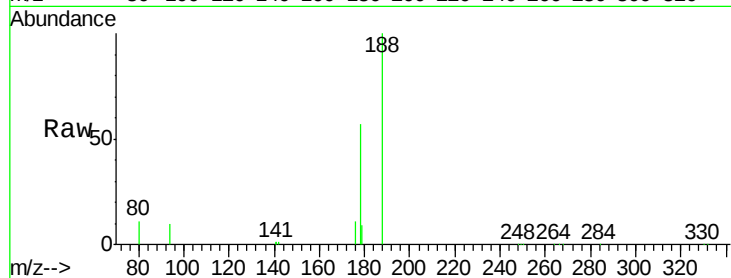
ClientSampleId :

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Tot Ion:	178	Resp:	14440
Ion Ratio	Lower	Upper	
178	100		
176	18.5	15.4	23.2
179	16.8	12.7	19.1

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#16

Anthracene

Concen: 0.12 ng

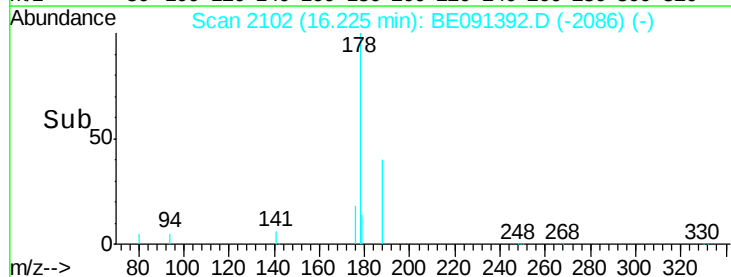
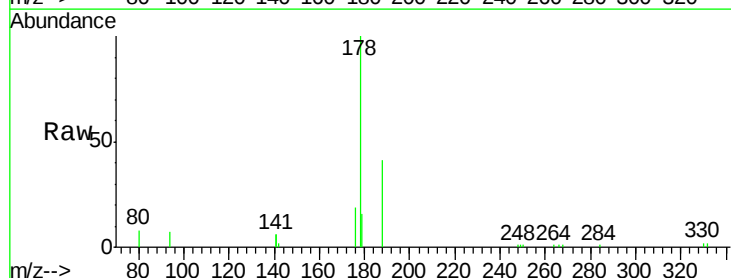
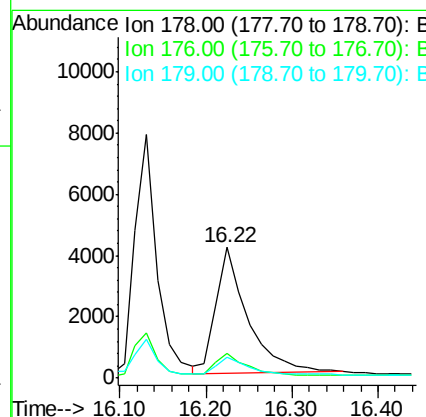
RT: 16.22 min Scan# 2102

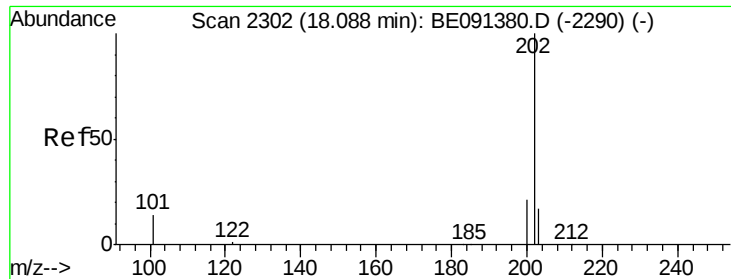
Delta R.T. 0.01 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

Tgt Ion:	178	Resp:	10508
Ion Ratio	Lower	Upper	
178	100		
176	18.6	14.8	22.2
179	15.3	12.1	18.1





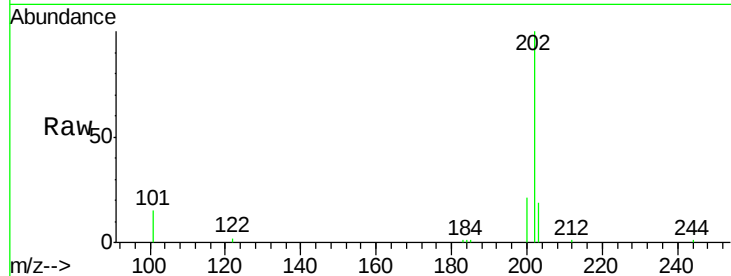
#17
Fluoranthene
 Concen: 0.22 ng
 RT: 18.10 min Scan# 2304
 Delta R.T. 0.02 min
 Lab File: BE091392.D
 Acq: 4 Feb 2016 12:53

Instrument :
 BNA_E
 ClientSampleId :
 LOQ-WATER2016-02

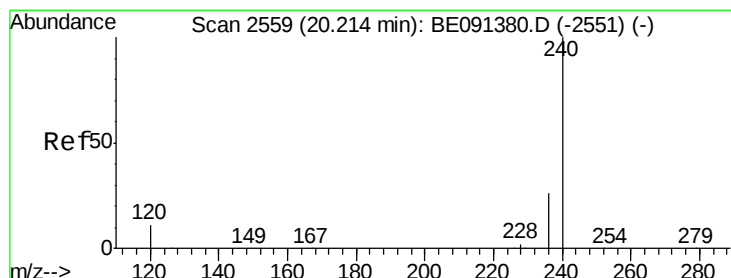
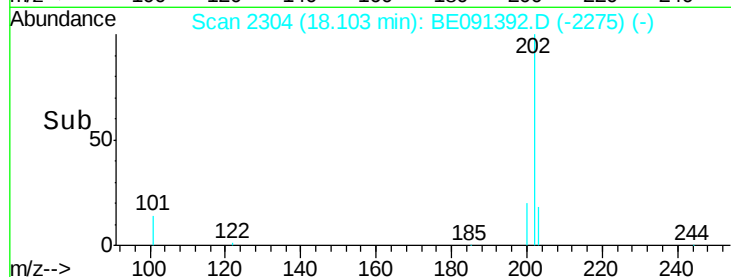
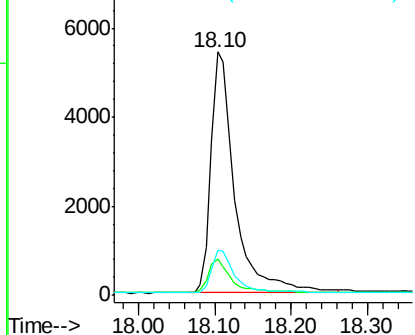
Tot Ion	Ratio	Lower	Upper
202	100		
101	13.1	10.5	15.7
203	17.4	13.9	20.9

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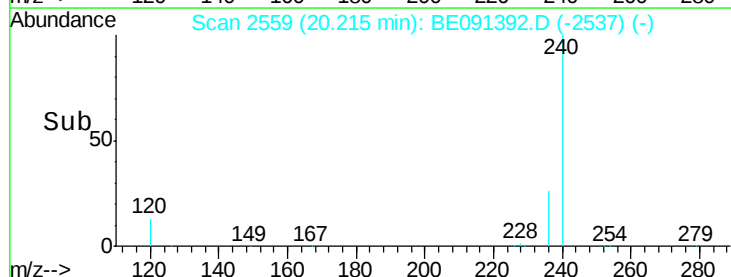
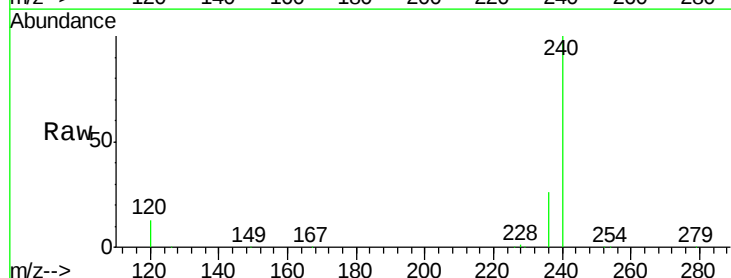
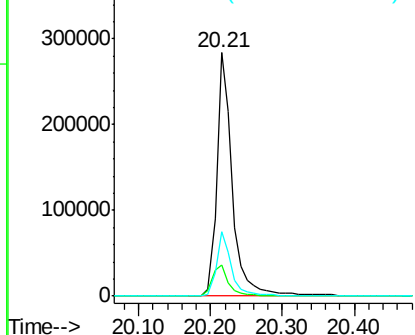
Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E



#18
Chrysene-d12
 Concen: 5.00 ng
 RT: 20.21 min Scan# 2559
 Delta R.T. 0.00 min
 Lab File: BE091392.D
 Acq: 4 Feb 2016 12:53

Tgt Ion	Ratio	Lower	Upper
240	100		
120	12.9	8.9	13.3
236	26.5	21.0	31.4

Abundance Ion 240.00 (239.70 to 240.70): E
 Ion 120.00 (119.70 to 120.70): E
 Ion 236.00 (235.70 to 236.70): E





#19

Pvrene

Concen: 0.13 ng

RT: 18.49 min Scan# 2355

Delta R.T. 0.02 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

Instrument :

BNA_E

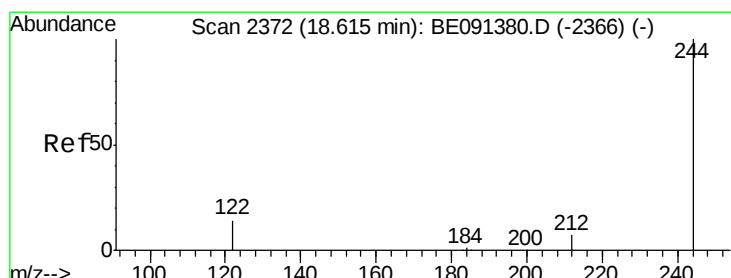
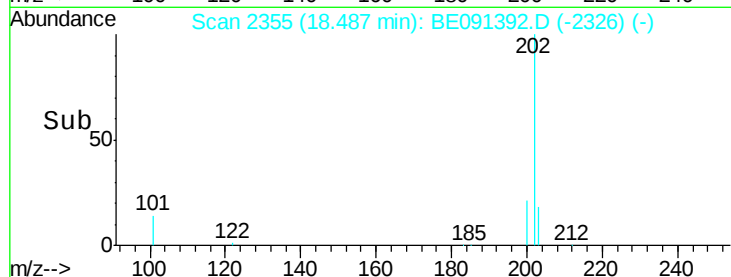
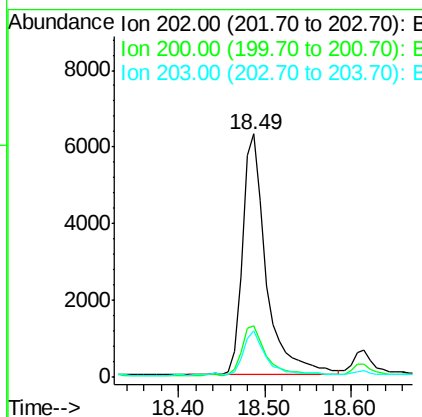
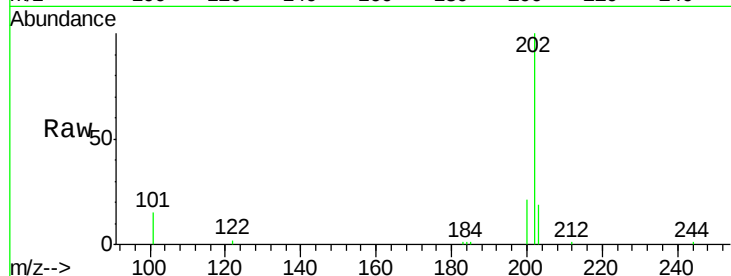
ClientSampleId :

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Tot Ion:	202	Resp:	12057
Ion Ratio	Lower	Upper	
202	100		
200	21.2	16.8	25.2
203	18.0	14.0	21.0

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#20

Terphenyl-d14

Concen: 4.16 ng

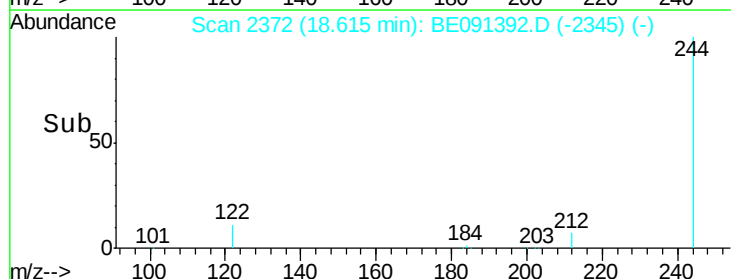
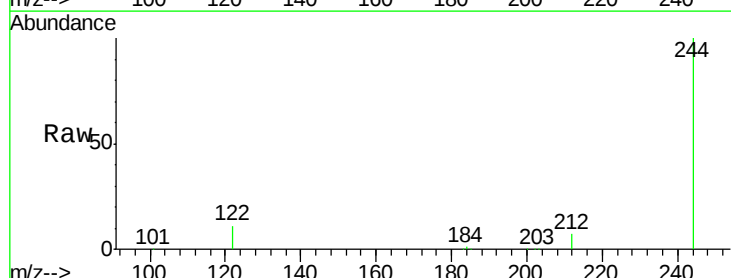
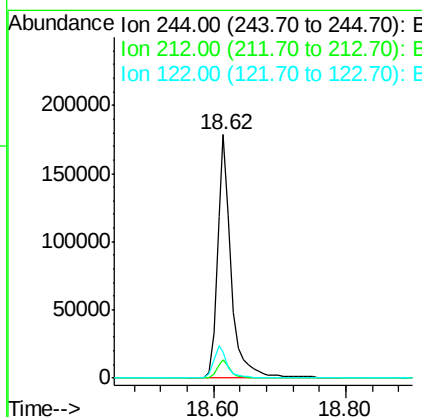
RT: 18.62 min Scan# 2372

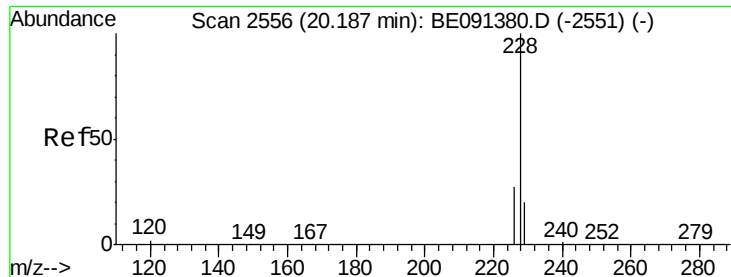
Delta R.T. 0.00 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

Tgt Ion:	244	Resp:	260513
Ion Ratio	Lower	Upper	
244	100		
212	7.4	6.1	9.1
122	10.7	11.0	16.6#





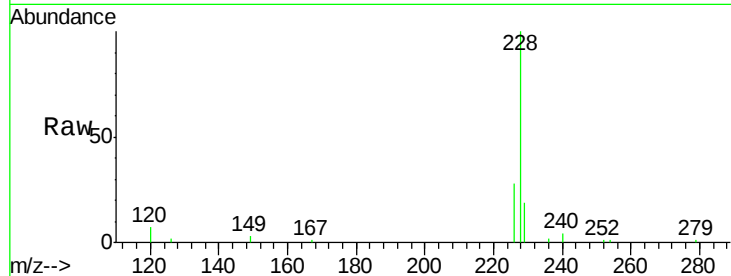
#21
Benzo(a)anthracene
Concen: 0.27 ng
RT: 20.19 min Scan# 2556
Delta R.T. 0.00 min
Lab File: BE091392.D
Acq: 4 Feb 2016 12:53

Instrument :
BNA_E
ClientSampleId :
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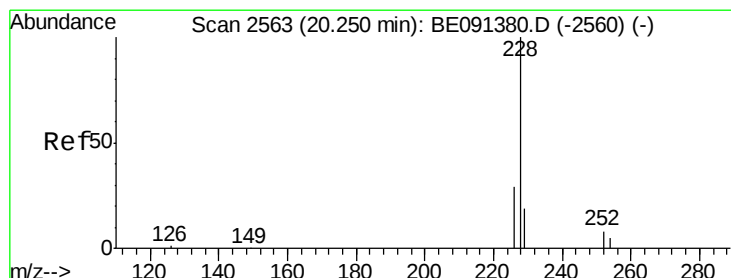
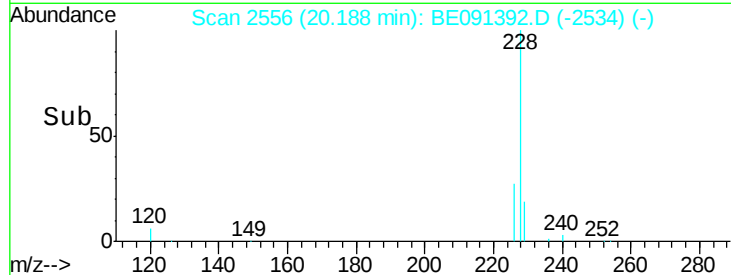
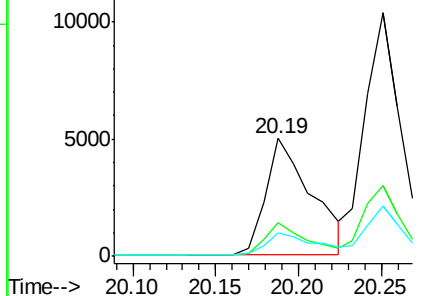
Tot Ion	Ratio	Lower	Upper
228	100		
226	28.3	21.7	32.5
229	19.4	16.1	24.1

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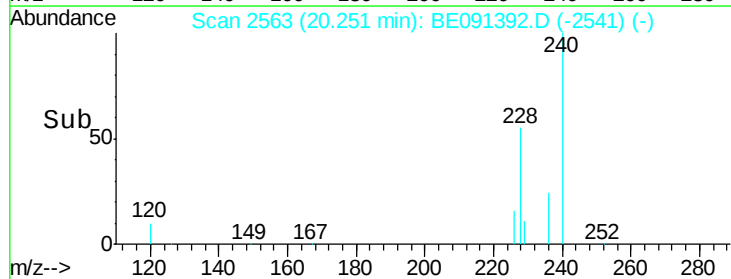
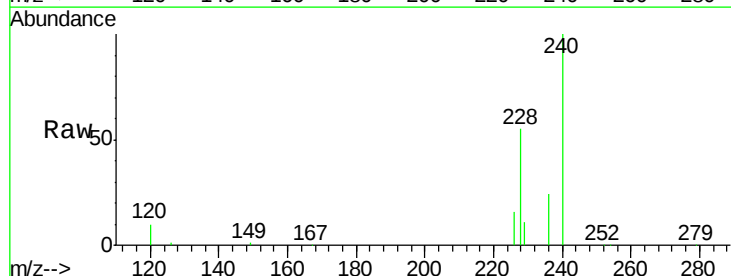
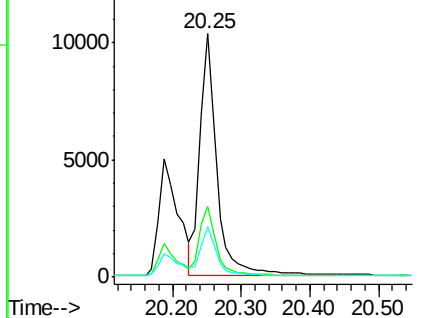
Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

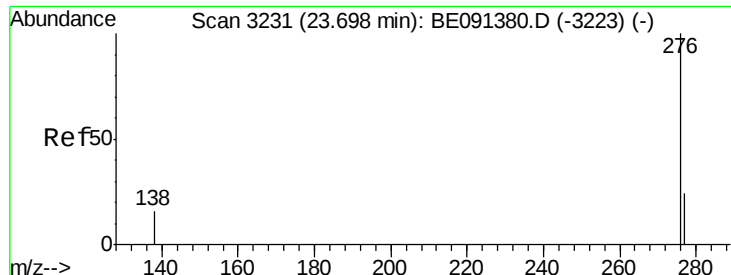


#22
Chrysene
Concen: 0.10 ng m
RT: 20.25 min Scan# 2563
Delta R.T. 0.00 min
Lab File: BE091392.D
Acq: 4 Feb 2016 12:53

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.2	23.4	35.0
229	20.4	15.7	23.5

Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#23

Indeno(1,2,3-cd)pyrene

Concen: 0.25 ng

RT: 23.72 min Scan# 3236

Delta R.T. 0.03 min

Lab File: BE091392.D

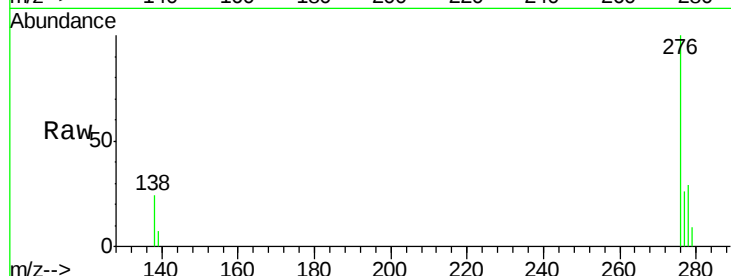
Acq: 4 Feb 2016 12:53

Instrument :

BNA_E

ClientSampleId :

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Tot Ion:276 Resp: 9037

Ion Ratio Lower Upper

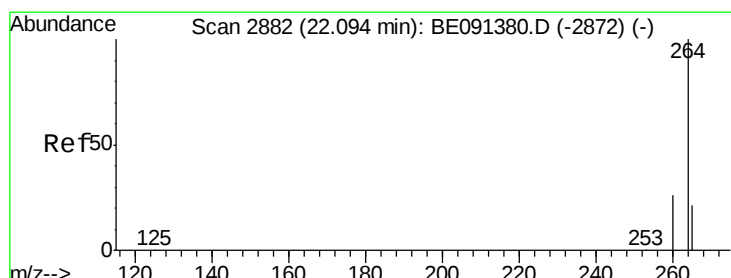
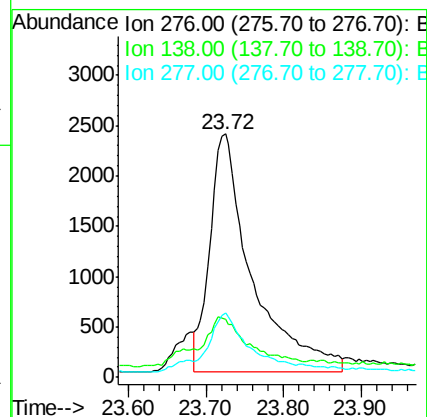
276 100

138 17.0 16.6 25.0

277 21.0 19.0 28.6

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#24

Perylene-d12

Concen: 5.00 ng

RT: 22.10 min Scan# 2883

Delta R.T. 0.00 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

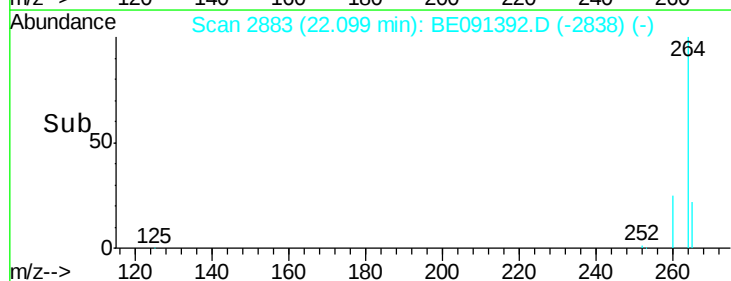
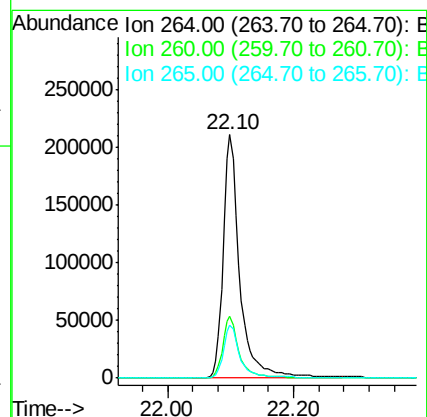
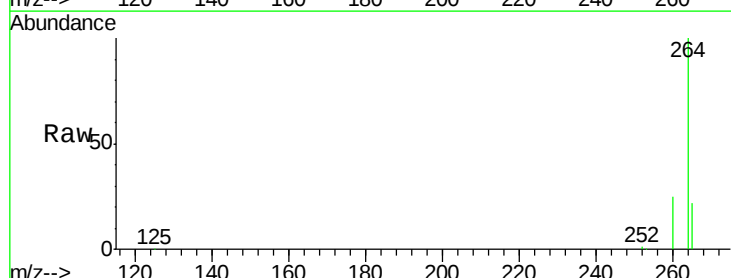
Tgt Ion:264 Resp: 385544

Ion Ratio Lower Upper

264 100

260 25.4 20.7 31.1

265 21.7 17.2 25.8





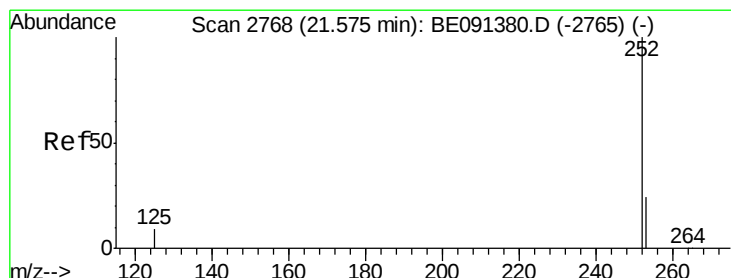
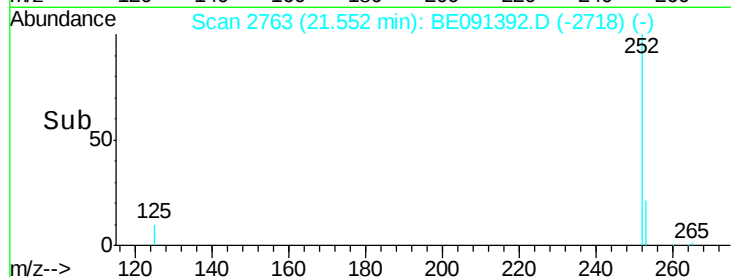
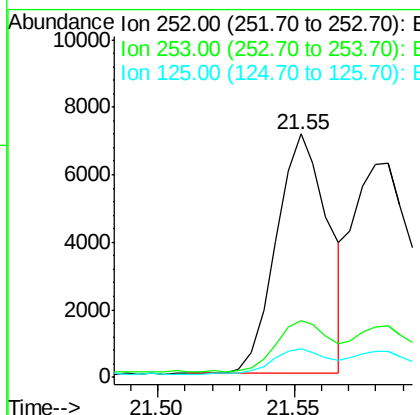
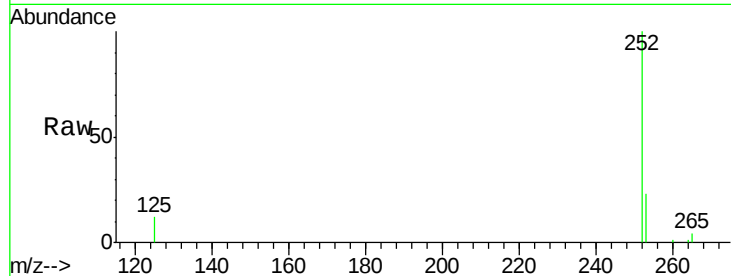
#25
Benzo(b)fluoranthene
Concen: 0.24 ng
RT: 21.55 min Scan# 2763
Delta R.T. 0.01 min
Lab File: BE091392.D
Acq: 4 Feb 2016 12:53

Instrument :
BNA_E
ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.2	27.2
125	11.7	8.3	12.5

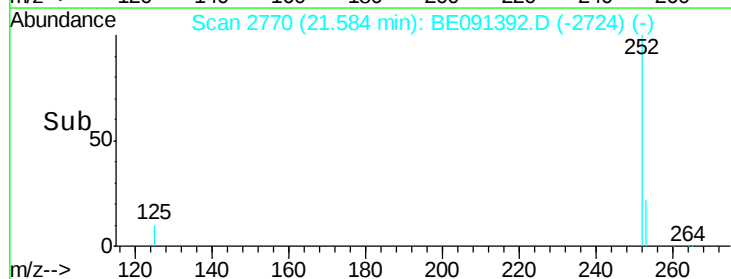
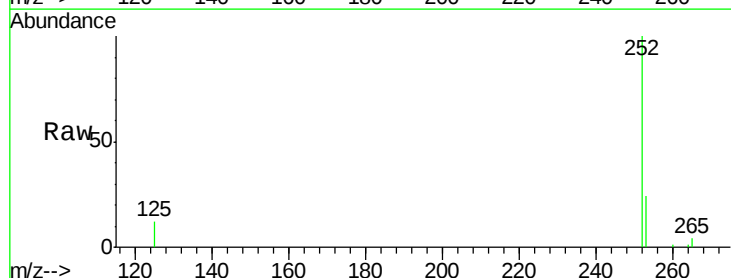
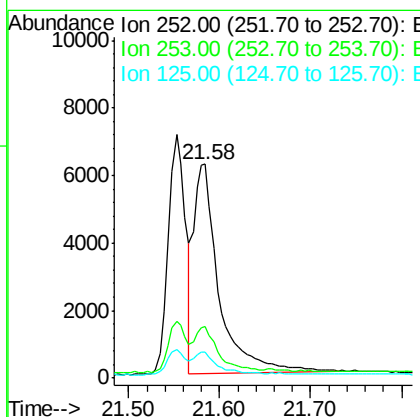
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#26
Benzo(k)fluoranthene
Concen: 0.14 ng
RT: 21.58 min Scan# 2770
Delta R.T. 0.01 min
Lab File: BE091392.D
Acq: 4 Feb 2016 12:53

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	18.1	27.1
125	11.9	8.2	12.4





#27

Benzo(a)pyrene

Concen: 0.25 ng

RT: 22.01 min Scan# 2863

Delta R.T. 0.00 min

Lab File: BE091392.D

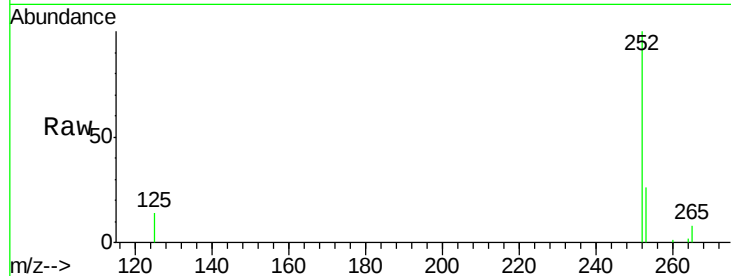
Acq: 4 Feb 2016 12:53

Instrument :

BNA_E

ClientSampleId :

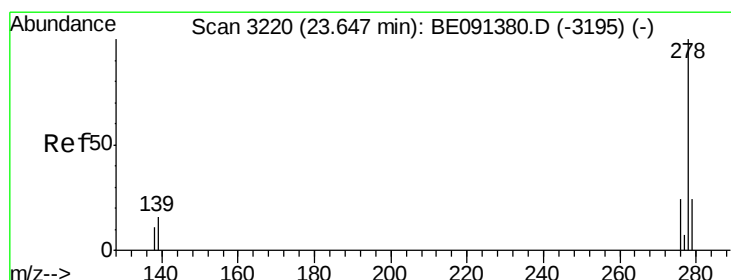
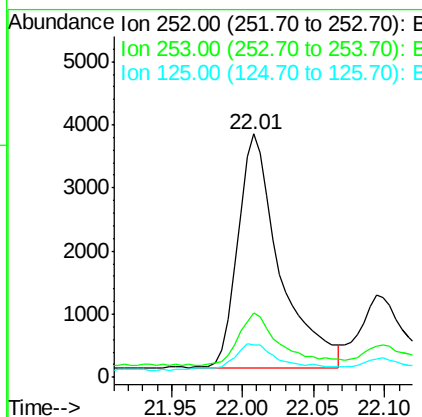
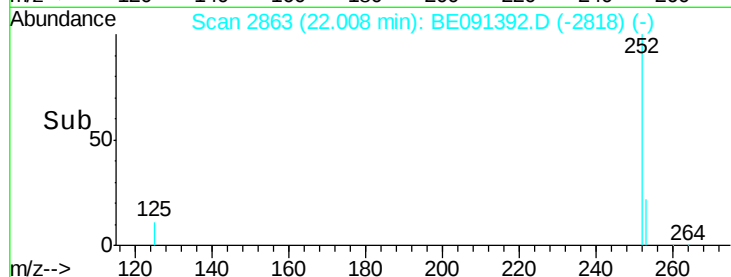
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Tot Ion:	252	Resp:	7636
Ion Ratio	Lower	Upper	
252	100		
253	26.2	17.5	26.3
125	13.6	9.4	14.0

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#28

Dibenzo(a,h)anthracene

Concen: 0.33 ng

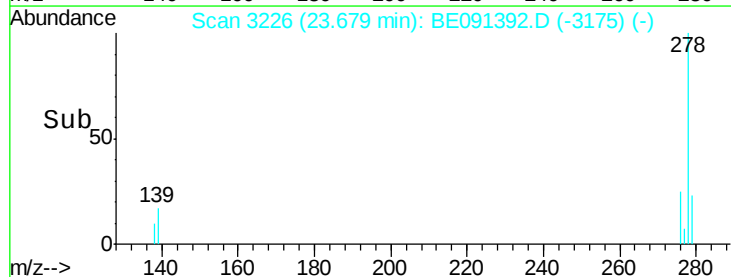
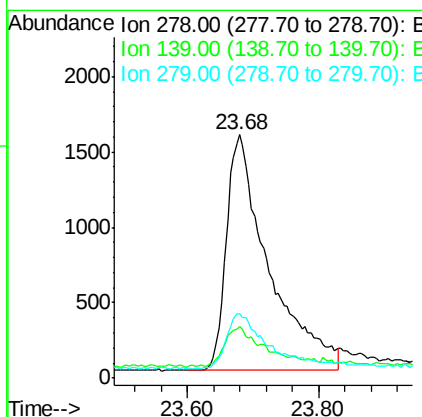
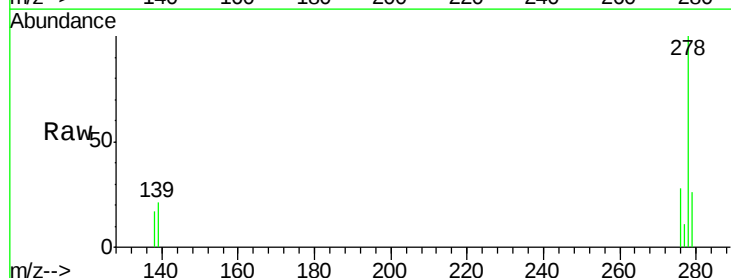
RT: 23.68 min Scan# 3226

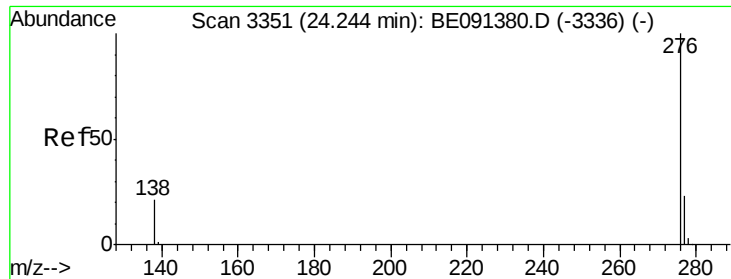
Delta R.T. 0.03 min

Lab File: BE091392.D

Acq: 4 Feb 2016 12:53

Tgt Ion:	278	Resp:	6980
Ion Ratio	Lower	Upper	
278	100		
139	21.0	13.0	19.4#
279	26.4	19.2	28.8





#29

Benzo(a,h,i)perylene

Concen: 0.25 ng

RT: 24.27 min Scan# 3355

Delta R.T. 0.02 min

Lab File: BE091392.D

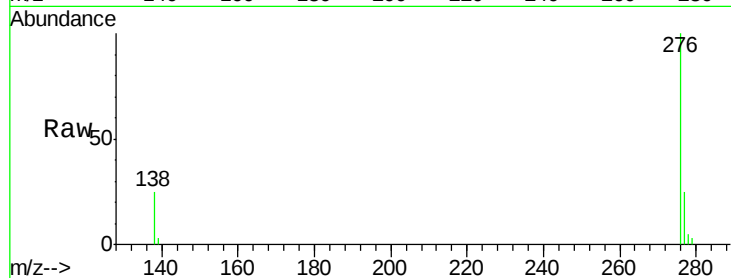
Acq: 4 Feb 2016 12:53

Instrument :

BNA_E

ClientSampleId :

LOQ-WATER2016-02



Tot Ion:	276	Resp:	10192
Ion Ratio	Lower	Upper	
276	100		
277	24.5	18.9	28.3
138	25.5	17.0	25.6

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