

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE031816\
 Data File : BE091470.D
 Acq On : 17 Mar 2016 17:15
 Operator : UM/SJ
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.2

Manual Integrations
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 3/18/2016 6:10:44 PM

Quant Time: Mar 18 02:57:13 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE031816.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 18 02:38:58 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.84	152	57549	5.00	ng	0.00
6) Naphthalene-d8	10.61	136	253402	5.00	ng	0.00
10) Acenaphthene-d10	14.44	164	150248	5.00	ng	0.00
16) Phenanthrene-d10	17.18	188	379007	5.00	ng	0.00
22) Chrysene-d12	21.34	240	519411	5.00	ng	0.00
28) Perylene-d12	23.81	264	478872	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.43	112	2401	0.23	ng	0.00
5) Phenol-d6	6.99	99	2872	0.23	ng	0.00
7) Nitrobenzene-d5	8.99	82	1909	0.18	ng	0.01
11) 2,4,6-Tribromophenol	15.93	330	685m	0.17	ng	0.00
12) 2-Fluorobiphenyl	13.08	172	6790	0.16	ng	0.01
24) Terphenyl-d14	19.80	244	12070	0.19	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.37	88	1514	0.23	ng	94
3) n-Nitrosodimethylamine	3.68	42	1679	0.34	ng	# 97
8) Naphthalene	10.65	128	11874	0.18	ng	99
9) 2-Methylnaphthalene	12.27	142	7085	0.17	ng	96
13) Acenaphthylene	14.16	152	10428	0.14	ng	97
14) Acenaphthene	14.51	154	8405	0.16	ng	94
15) Fluorene	15.49	166	10920	0.18	ng	100
17) Hexachlorobenzene	16.48	284	3118	0.13	ng	99
18) Pentachlorophenol	16.83	266	1060	0.45	ng	98
19) Phenanthrene	17.22	178	20906	0.18	ng	99
20) Anthracene	17.31	178	16485	0.16	ng	99
21) Fluoranthene	19.22	202	22412	0.18	ng	99
23) Pyrene	19.59	202	23876	0.12	ng	99
25) Benzo(a)anthracene	21.31	228	26468m	0.15	ng	
26) Chrysene	21.38	228	30963m	0.17	ng	
27) Indeno(1,2,3-cd)pyrene	26.40	276	27984	0.19	ng	99
29) Benzo(b)fluoranthene	23.05	252	28954	0.17	ng	# 94
30) Benzo(k)fluoranthene	23.09	252	30012	0.17	ng	# 96
31) Benzo(a)pyrene	23.69	252	23749	0.16	ng	# 92
32) Dibenzo(a,h)anthracene	26.43	278	23283	0.19	ng	96
33) Benzo(g,h,i)perylene	27.20	276	25162	0.18	ng	98

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

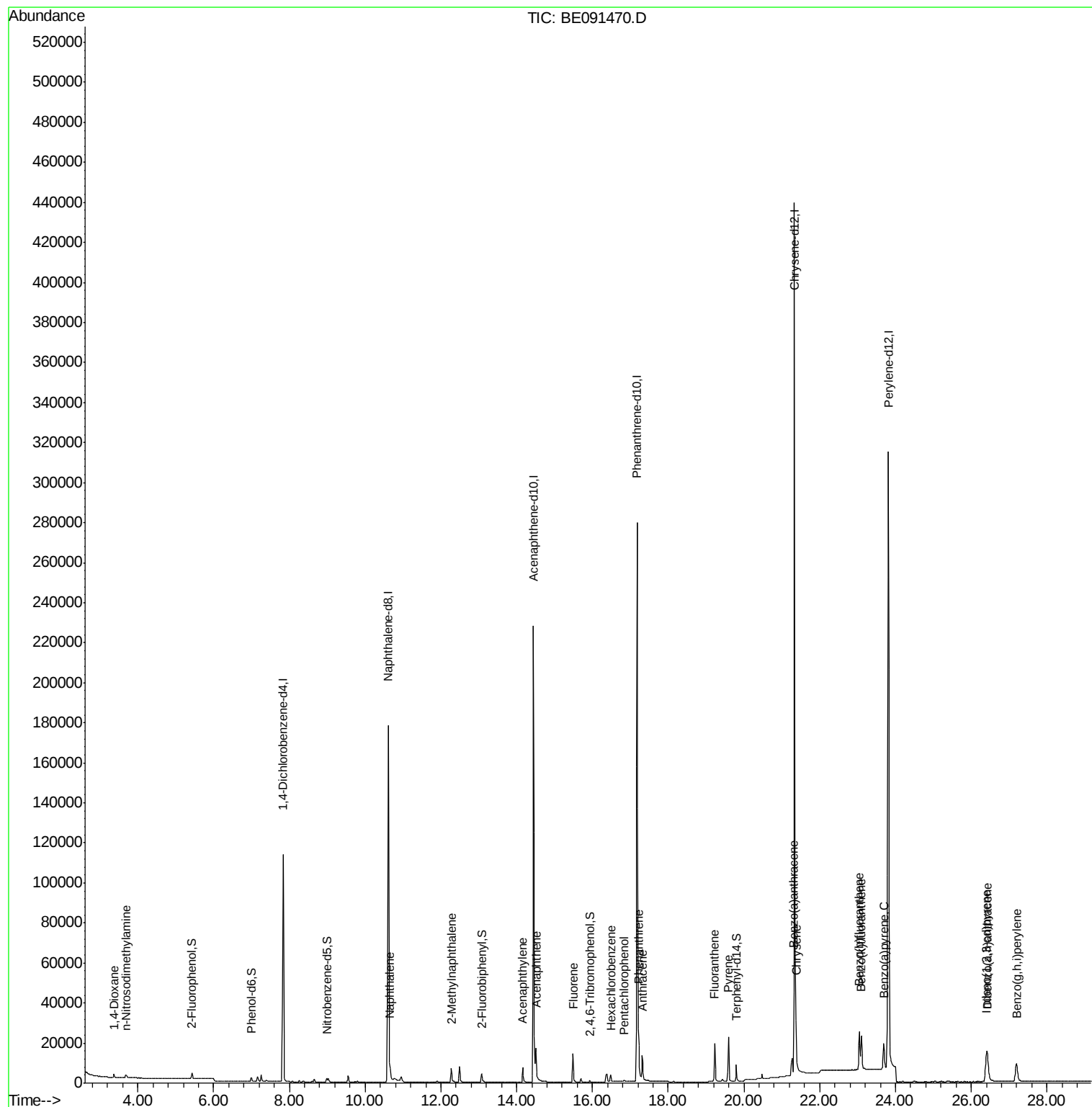
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE031816\
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.84 min Scan# 302

Delta R.T. -0.00 min

Lab File: BE091470.D

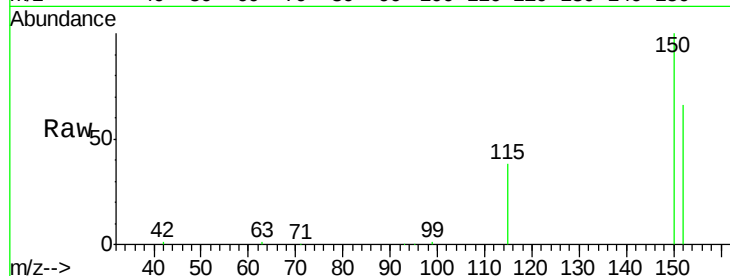
Acq: 17 Mar 2016 17:15

Instrument :

BNA_E

ClientSampleId :

SSTDIC0.2



Tgt Ion:152 Resp: 57549

Ion Ratio Lower Upper

152 100

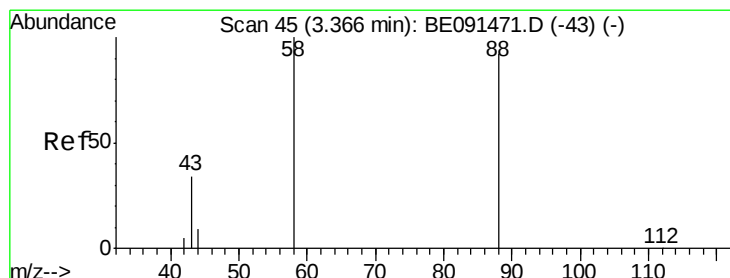
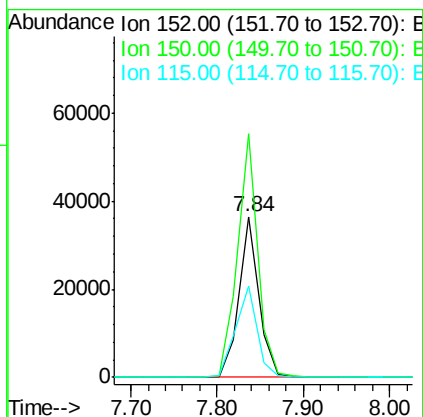
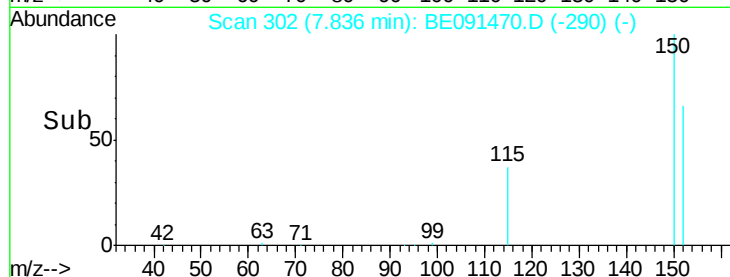
150 151.8 122.2 183.2

115 57.0 45.9 68.9

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#2

1,4-Dioxane

Concen: 0.23 ng

RT: 3.37 min Scan# 45

Delta R.T. 0.00 min

Lab File: BE091470.D

Acq: 17 Mar 2016 17:15

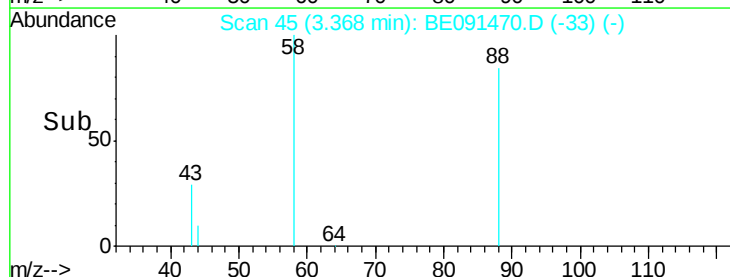
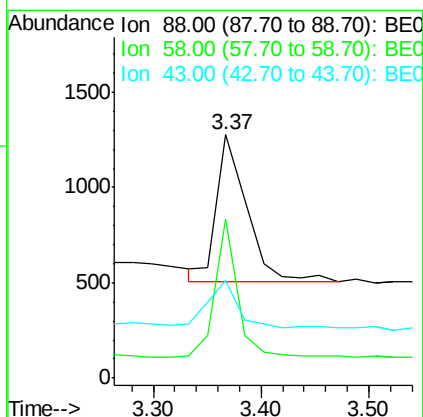
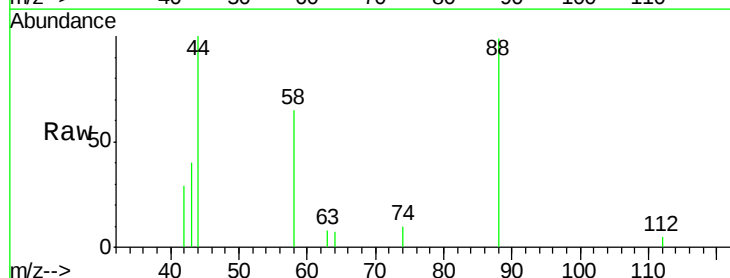
Tgt Ion: 88 Resp: 1514

Ion Ratio Lower Upper

88 100

58 70.1 61.0 91.6

43 33.0 25.4 38.2





#3

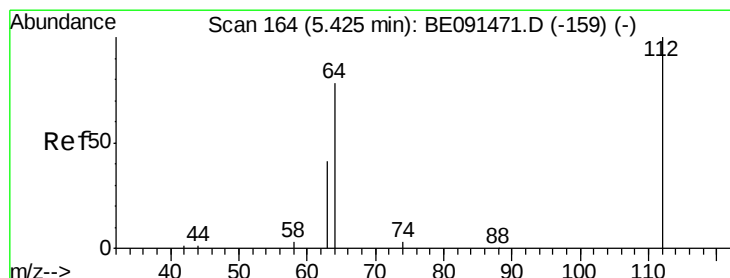
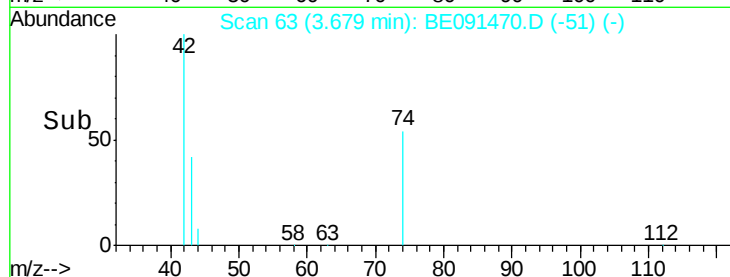
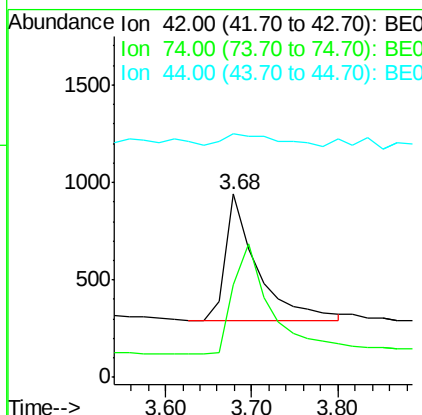
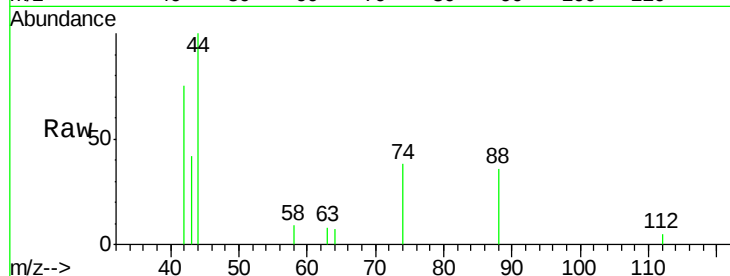
n-Nitrosodimethylamine
 Concen: 0.34 ng
 RT: 3.68 min Scan# 63
 Delta R.T. 0.00 min
 Lab File: BE091470.D
 Acq: 17 Mar 2016 17:15

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
42	100		
74	103.9	84.3	126.5
44	15.8	6.7	10.1#

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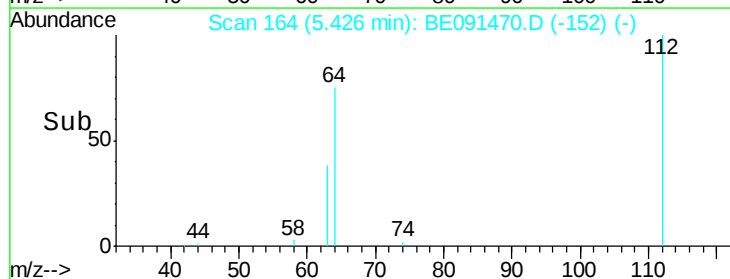
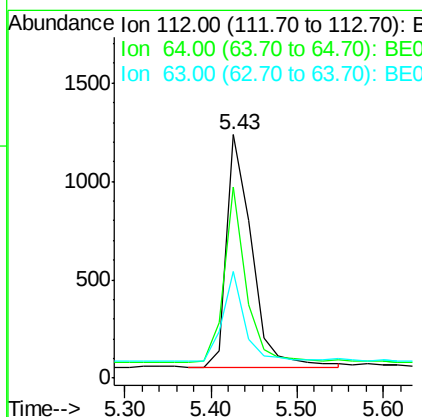
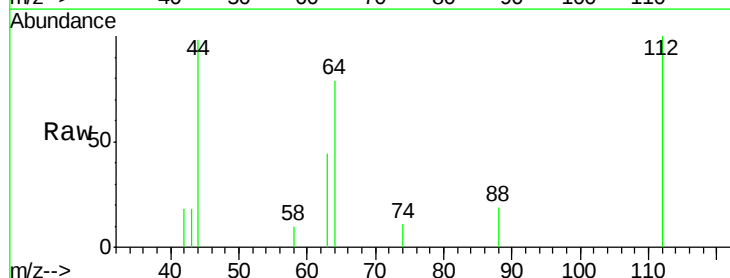
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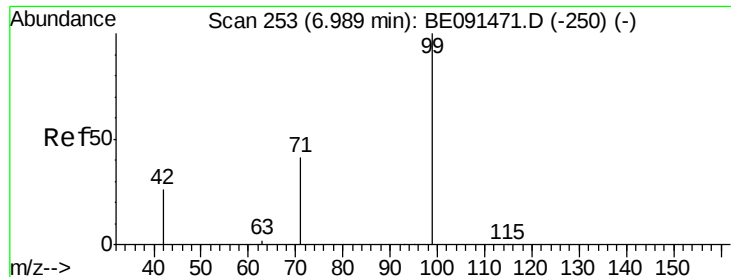


#4

2-Fluorophenol
 Concen: 0.23 ng
 RT: 5.43 min Scan# 164
 Delta R.T. 0.00 min
 Lab File: BE091470.D
 Acq: 17 Mar 2016 17:15

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.9	53.3	79.9
63	34.4	29.8	44.8





#5

Phenol-d6

Concen: 0.23 ng

RT: 6.99 min Scan# 253

Delta R.T. -0.00 min

Lab File: BE091470.D

Acq: 17 Mar 2016 17:15

Instrument :

BNA_E

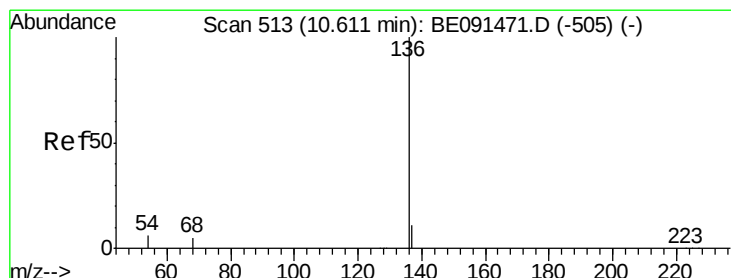
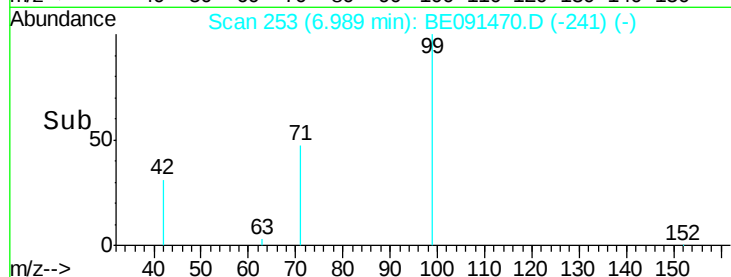
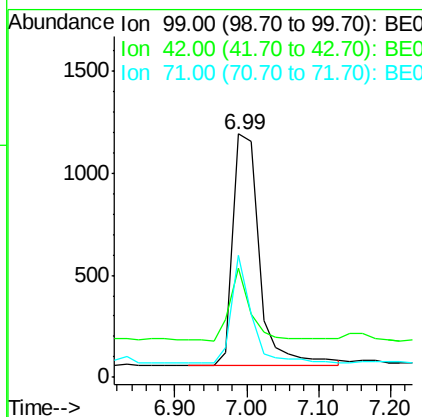
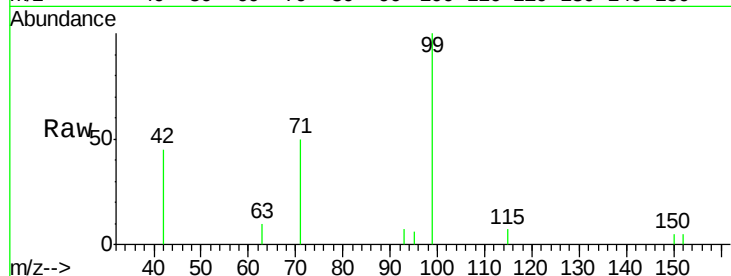
ClientSampleId :

SSTDIC0.2

Tgt Ion:	99	Resp:	2872
Ion Ratio	Lower	Upper	
99	100		
42	23.3	20.6	30.8
71	36.2	29.0	43.4

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#6

Naphthalene-d8

Concen: 5.00 ng

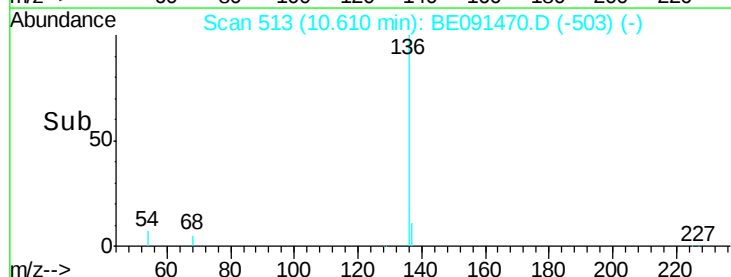
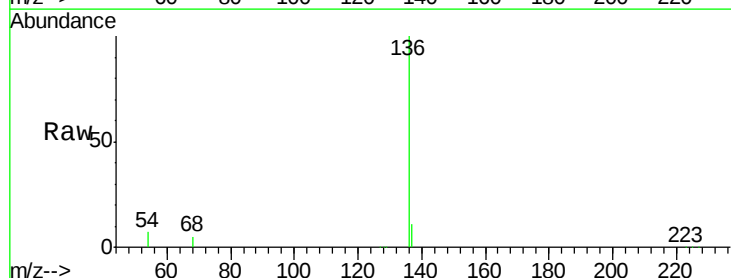
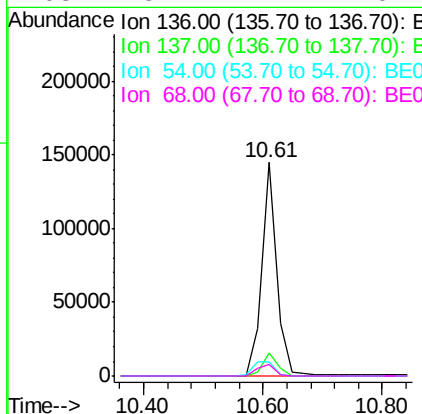
RT: 10.61 min Scan# 513

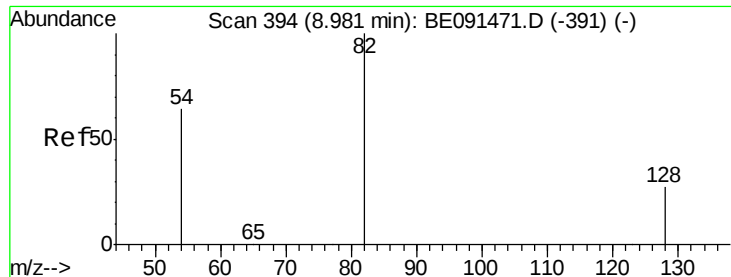
Delta R.T. -0.00 min

Lab File: BE091470.D

Acq: 17 Mar 2016 17:15

Tgt Ion:	136	Resp:	253402
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.8	13.2
54	6.9	5.2	7.8
68	5.4	4.1	6.1





#7

Nitrobenzene-d5

Concen: 0.18 ng

RT: 8.99 min Scan# 395

Delta R.T. 0.01 min

Lab File: BE091470.D

Acq: 17 Mar 2016 17:15

Instrument :

BNA_E

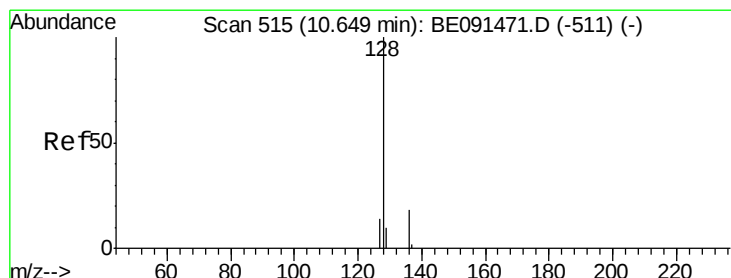
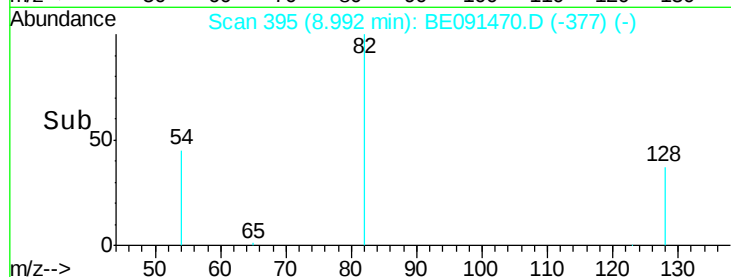
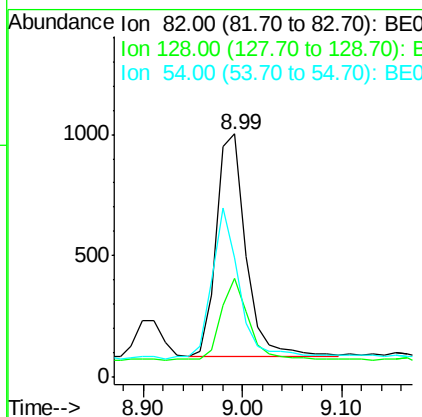
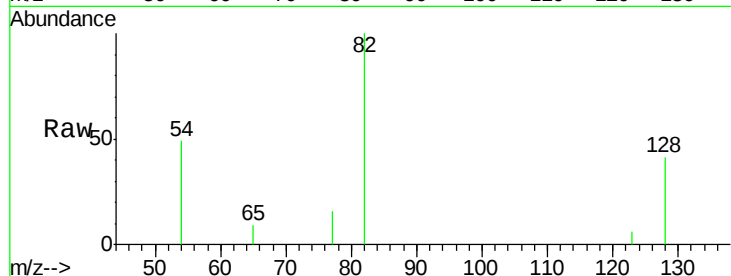
ClientSampleId :

SSTDIC0.2

Tgt Ion:	82	Resp:	1909
Ion Ratio	Lower	Upper	
82	100		
128	40.9	23.5	35.3#
54	49.1	52.4	78.6#

Manual Integrations
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#8

Naphthalene

Concen: 0.18 ng

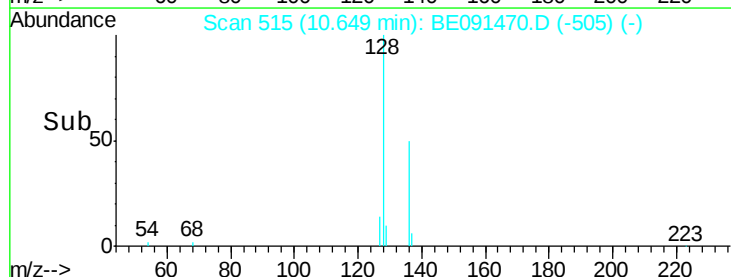
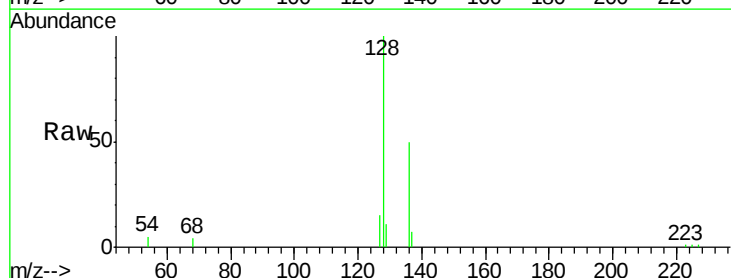
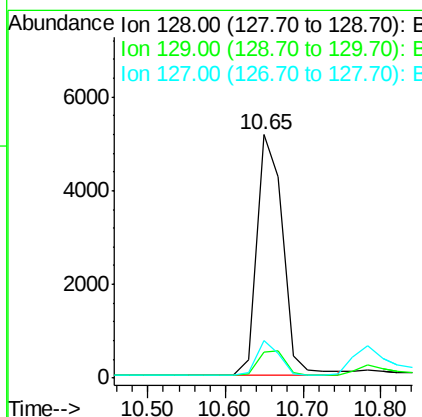
RT: 10.65 min Scan# 515

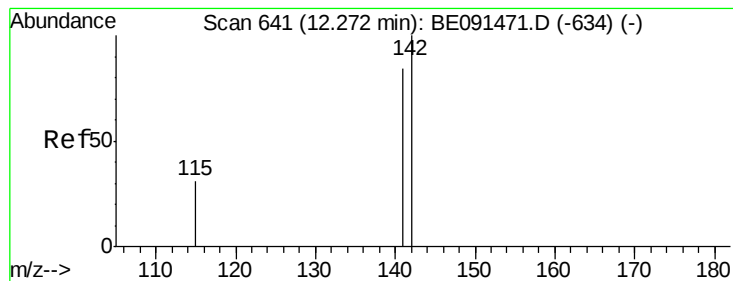
Delta R.T. -0.00 min

Lab File: BE091470.D

Acq: 17 Mar 2016 17:15

Tgt Ion:	128	Resp:	11874
Ion Ratio	Lower	Upper	
128	100		
129	10.8	8.2	12.2
127	15.2	11.8	17.8





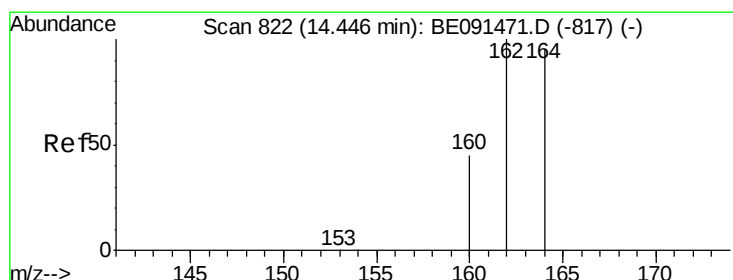
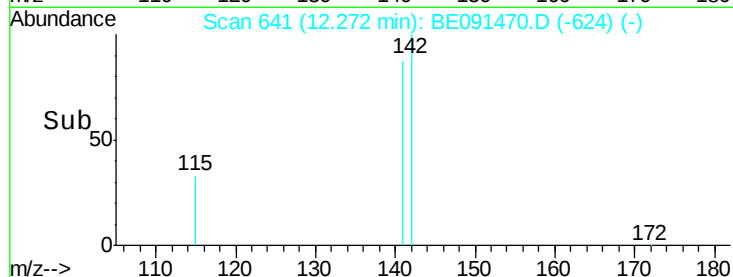
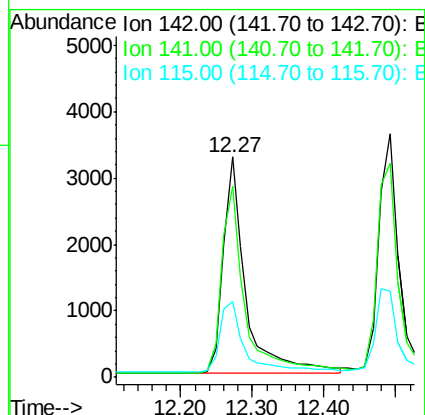
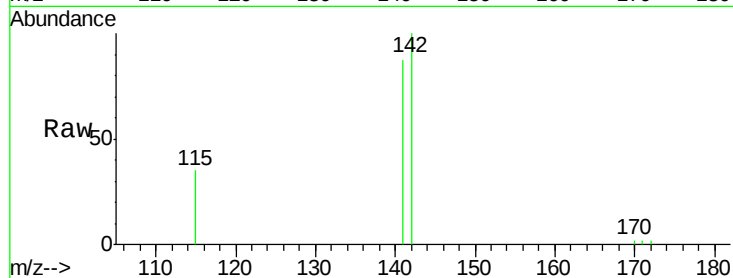
#9
2-Methylnaphthalene
Concen: 0.17 ng
RT: 12.27 min Scan# 641
Delta R.T. -0.00 min
Lab File: BE091470.D
Acq: 17 Mar 2016 17:15

Instrument :
BNA_E
ClientSampleId :
SSTDIC0.2

Tgt Ion	Ratio	Lower	Upper
142	100		
141	86.6	66.9	100.3
115	34.5	25.1	37.7

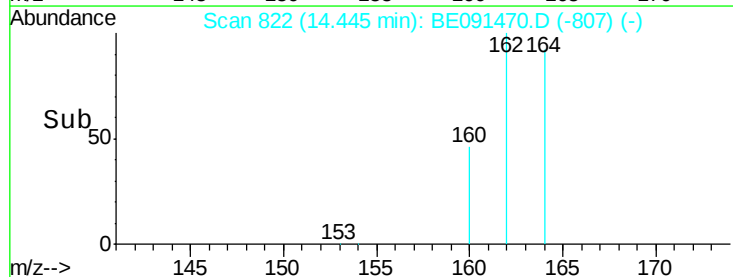
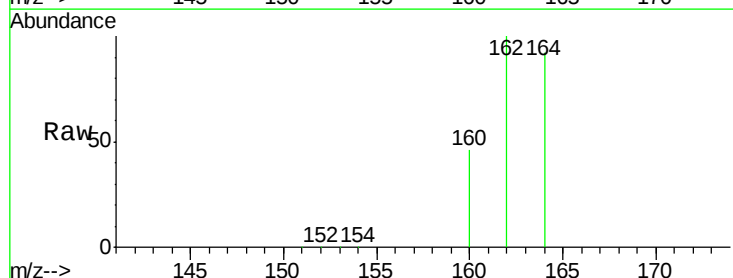
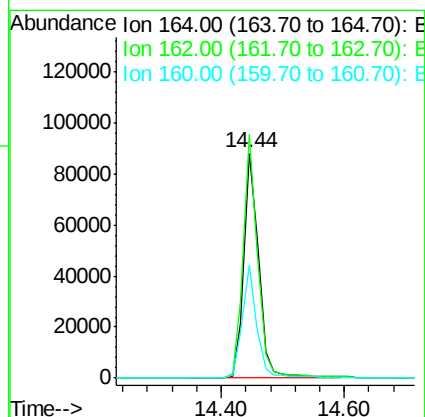
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#10
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.44 min Scan# 822
Delta R.T. -0.00 min
Lab File: BE091470.D
Acq: 17 Mar 2016 17:15

Tgt Ion	Ratio	Lower	Upper
164	100		
162	108.4	84.4	126.6
160	50.1	37.7	56.5





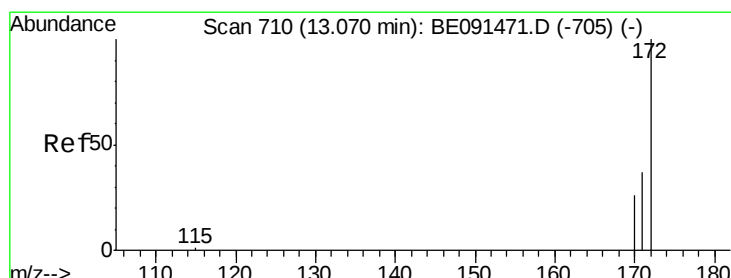
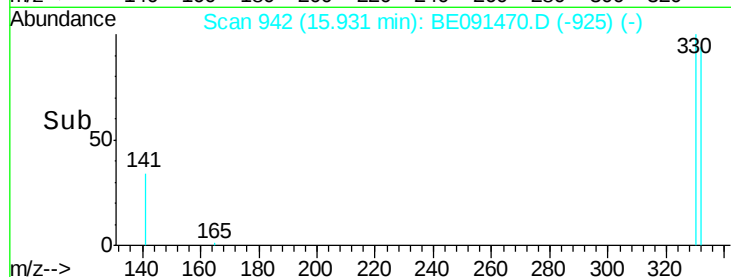
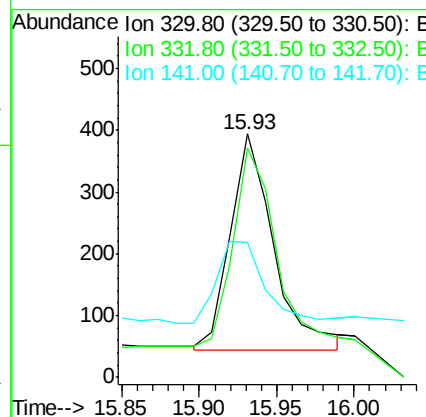
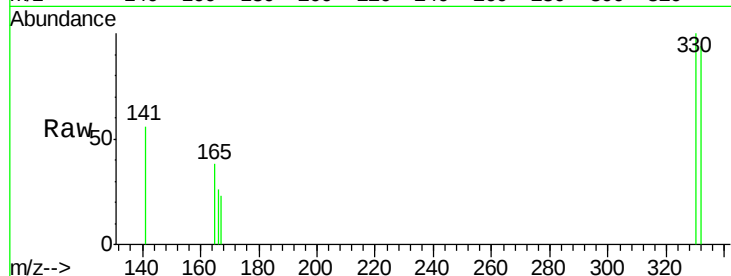
#11
 2,4,6-Tribromophenol
 Concen: 0.17 ng m
 RT: 15.93 min Scan# 942
 Delta R.T. 0.00 min
 Lab File: BE091470.D
 Acq: 17 Mar 2016 17:15

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
330	100		
332	164.1	79.2	118.8#
141	50.2	28.1	42.1#

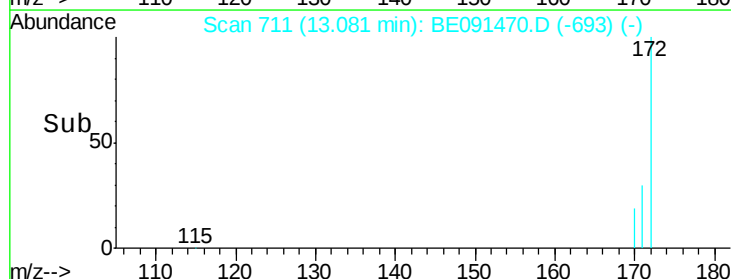
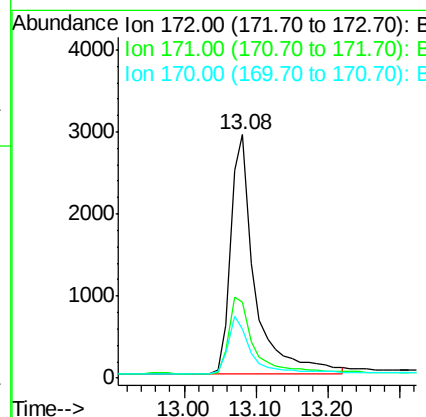
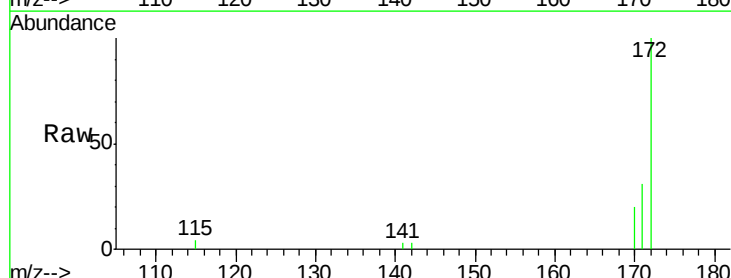
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#12
 2-Fluorobiphenyl
 Concen: 0.16 ng
 RT: 13.08 min Scan# 711
 Delta R.T. 0.01 min
 Lab File: BE091470.D
 Acq: 17 Mar 2016 17:15

Tgt Ion	Ratio	Lower	Upper
172	100		
171	31.3	29.8	44.8
170	20.3	21.4	32.2#





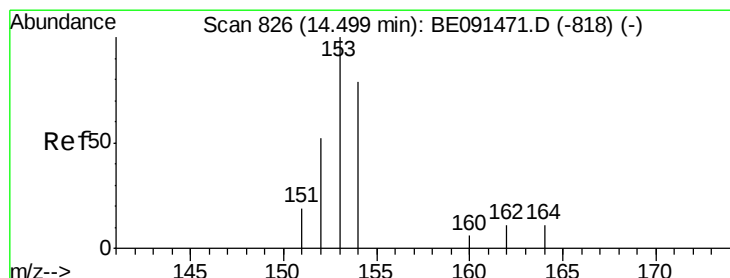
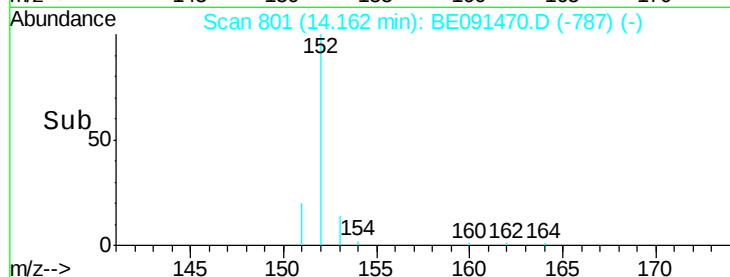
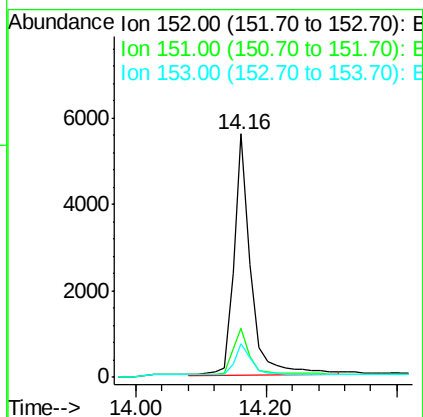
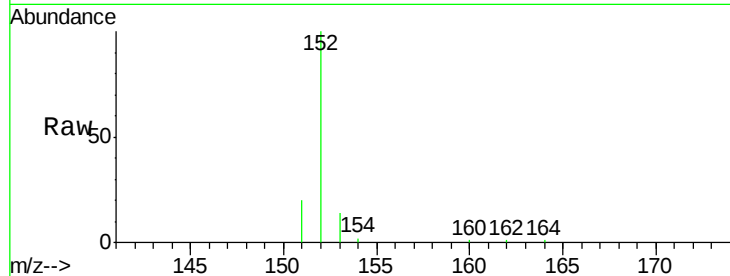
#13
Acenaphthylene
Concen: 0.14 ng
RT: 14.16 min Scan# 801
Delta R.T. -0.00 min
Lab File: BE091470.D
Acq: 17 Mar 2016 17:15

Instrument :
BNA_E
ClientSampleId :
SSTDIC0.2

Tgt Ion	Ratio	Lower	Upper
152	100		
151	22.0	16.3	24.5
153	14.5	11.1	16.7

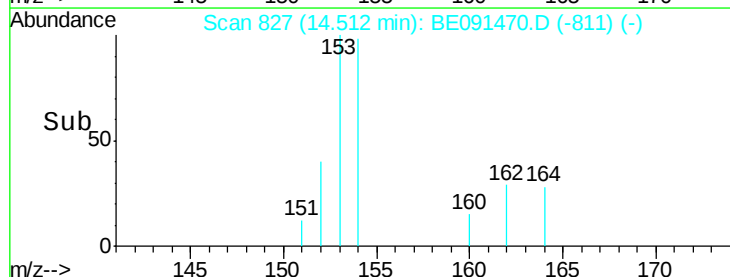
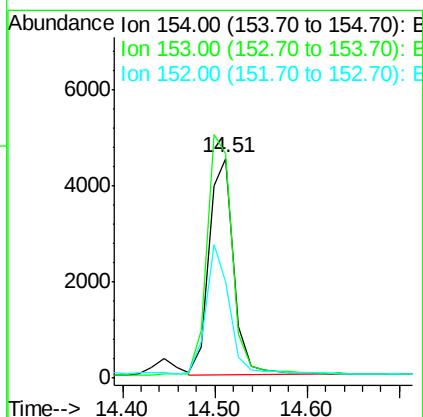
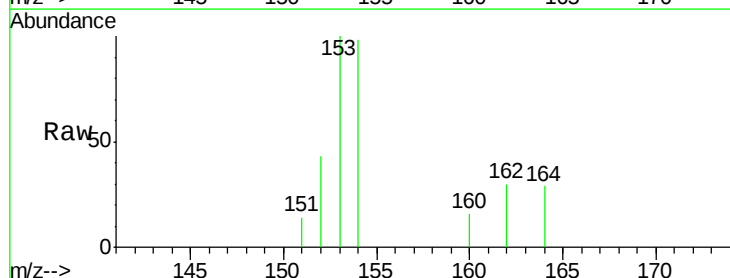
Manual Integrations
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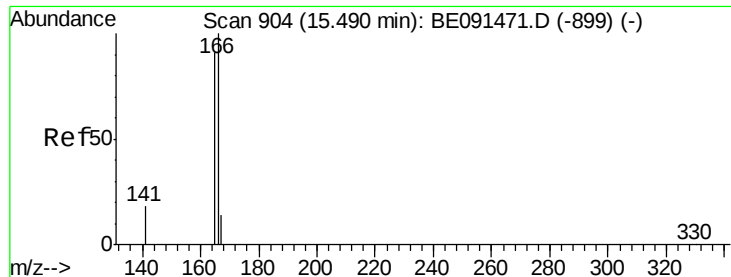
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#14
Acenaphthene
Concen: 0.16 ng
RT: 14.51 min Scan# 827
Delta R.T. 0.01 min
Lab File: BE091470.D
Acq: 17 Mar 2016 17:15

Tgt Ion	Ratio	Lower	Upper
154	100		
153	116.8	87.3	130.9
152	56.1	42.9	64.3





#15

Fluorene

Concen: 0.18 ng

RT: 15.49 min Scan# 904

Delta R.T. 0.00 min

Lab File: BE091470.D

Acq: 17 Mar 2016 17:15

Instrument :

BNA_E

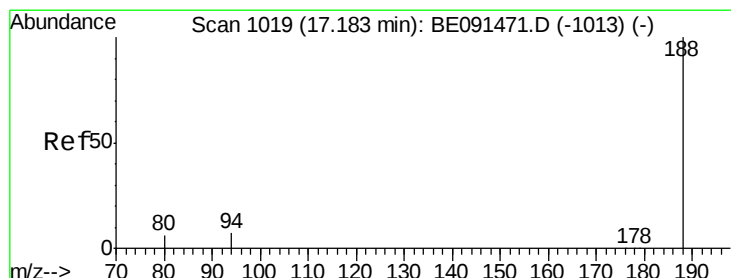
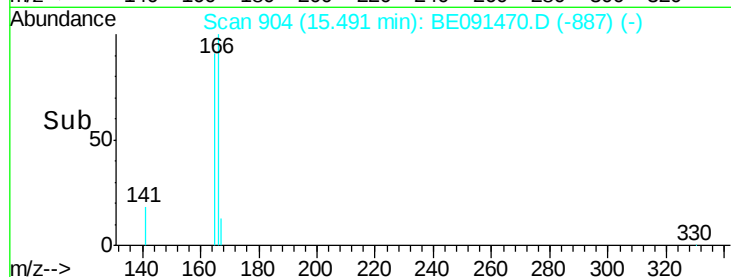
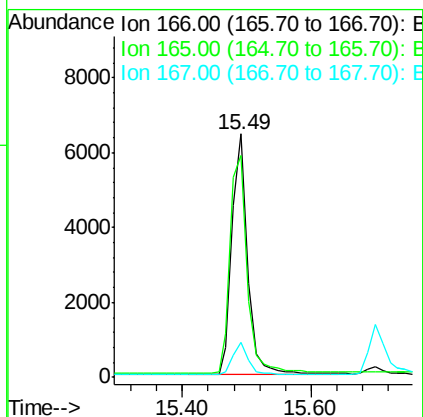
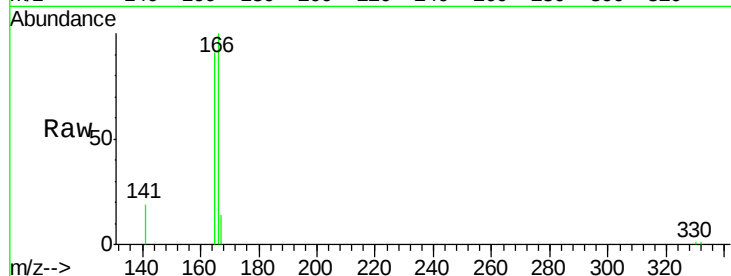
ClientSampleId :

SSTDICC0.2

Tgt Ion:	166	Resp:	10920
Ion Ratio	Lower	Upper	
166	100		
165	99.2	79.2	118.8
167	13.4	10.8	16.2

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#16

Phenanthrene-d10

Concen: 5.00 ng

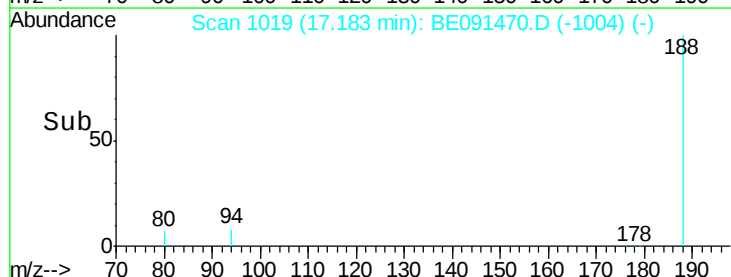
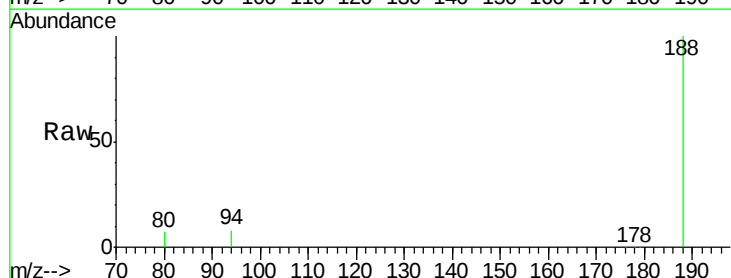
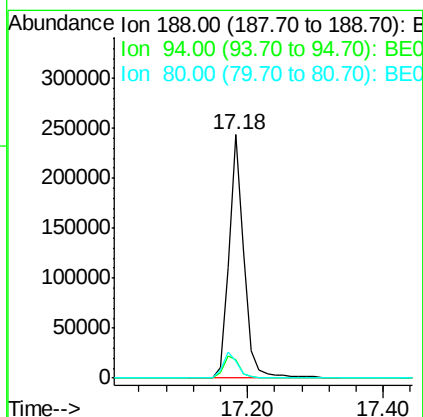
RT: 17.18 min Scan# 1019

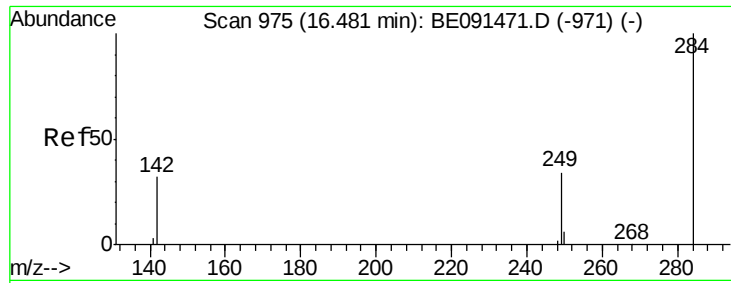
Delta R.T. -0.00 min

Lab File: BE091470.D

Acq: 17 Mar 2016 17:15

Tgt Ion:	188	Resp:	379007
Ion Ratio	Lower	Upper	
188	100		
94	7.6	5.4	8.2
80	7.0	5.0	7.4





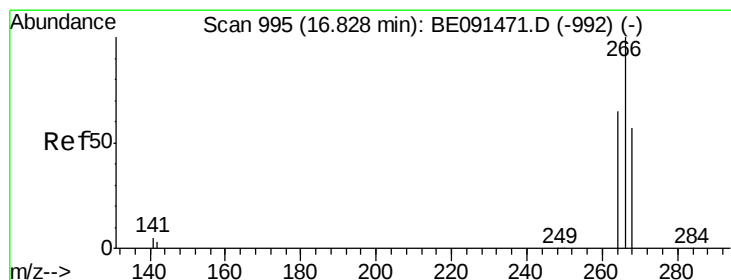
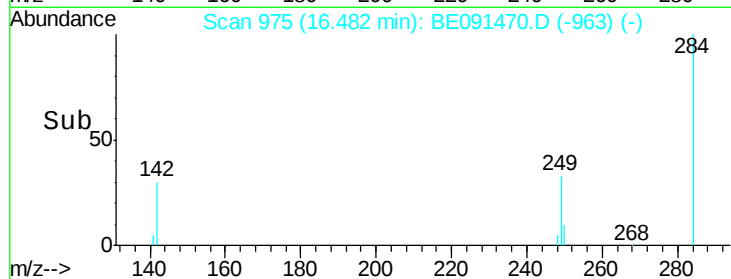
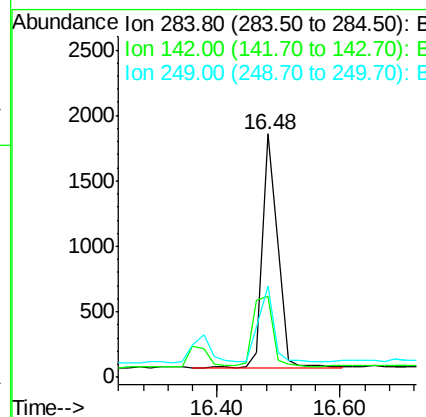
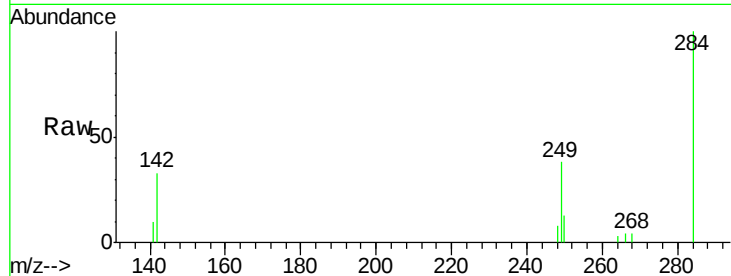
#17
Hexachlorobenzene
Concen: 0.13 ng
RT: 16.48 min Scan# 975
Delta R.T. 0.00 min
Lab File: BE091470.D
Acq: 17 Mar 2016 17:15

Instrument :
BNA_E
ClientSampleId :
SSTDIC0.2

Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.7	31.0	46.4
249	31.7	25.8	38.8

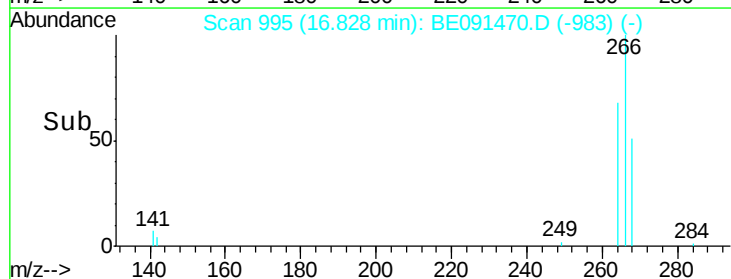
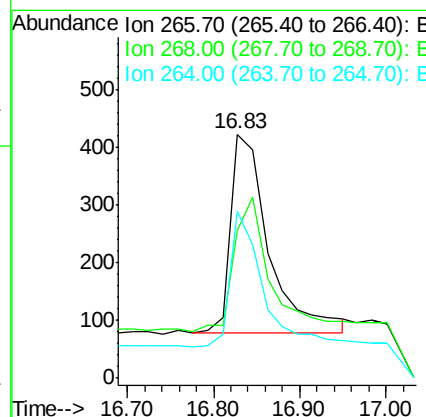
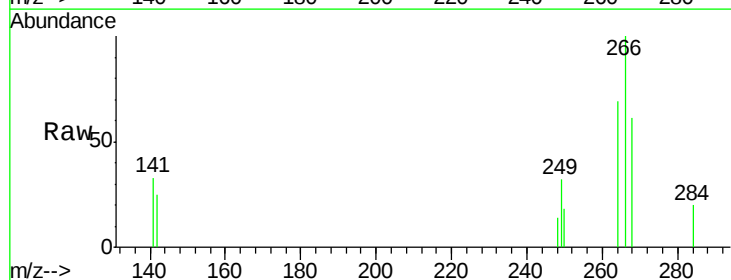
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#18
Pentachlorophenol
Concen: 0.45 ng
RT: 16.83 min Scan# 995
Delta R.T. 0.00 min
Lab File: BE091470.D
Acq: 17 Mar 2016 17:15

Tgt Ion	Ratio	Lower	Upper
266	100		
268	60.5	48.2	72.2
264	68.6	52.1	78.1





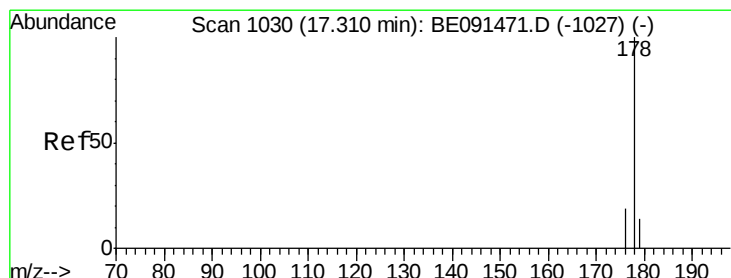
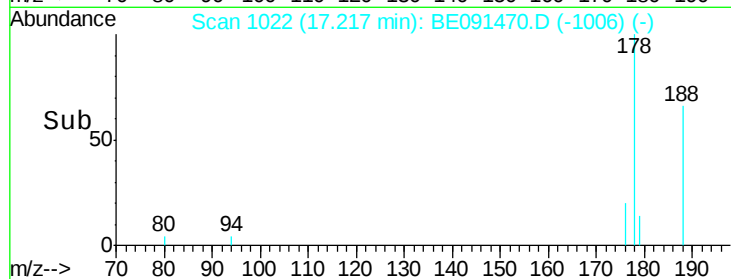
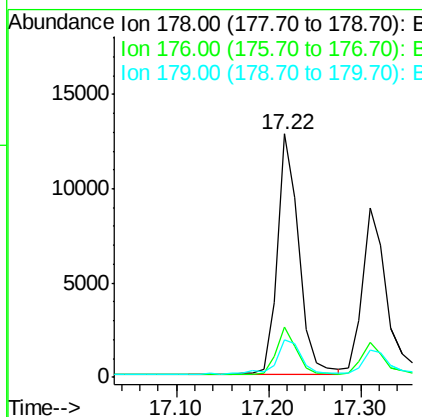
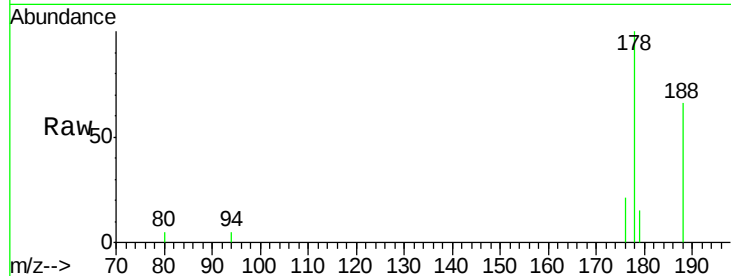
#19
Phenanthrene
Concen: 0.18 ng
RT: 17.22 min Scan# 1022
Delta R.T. -0.00 min
Lab File: BE091470.D
Acq: 17 Mar 2016 17:15

Instrument :
BNA_E
ClientSampleId :
SSTDIC0.2

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.5	23.3
179	16.8	13.1	19.7

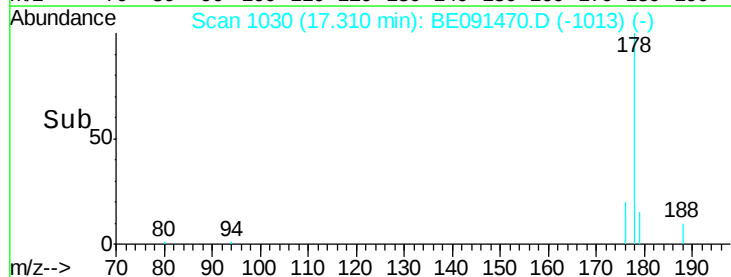
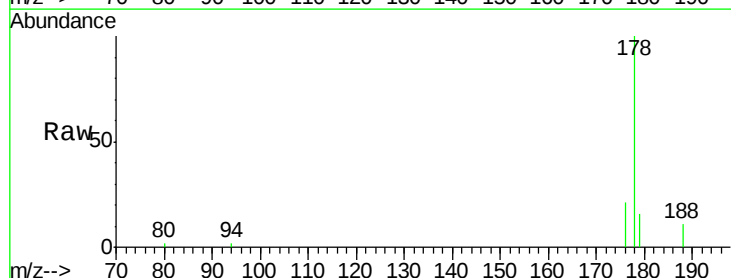
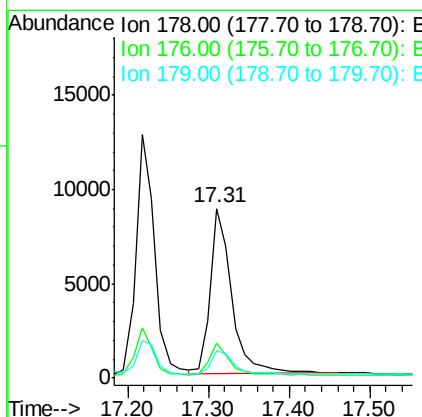
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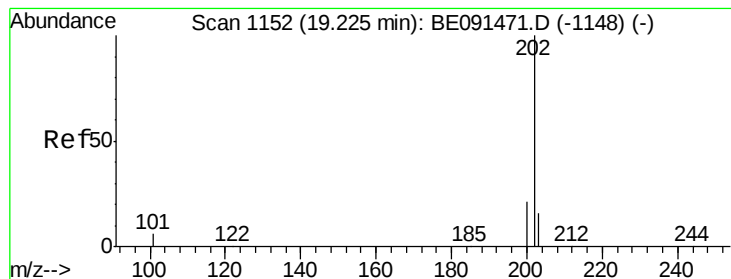
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#20
Anthracene
Concen: 0.16 ng
RT: 17.31 min Scan# 1030
Delta R.T. -0.00 min
Lab File: BE091470.D
Acq: 17 Mar 2016 17:15

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.9	22.3
179	14.6	12.2	18.4





#21

Fluoranthene

Concen: 0.18 ng

RT: 19.22 min Scan# 1152

Delta R.T. -0.00 min

Lab File: BE091470.D

Acq: 17 Mar 2016 17:15

Instrument :

BNA_E

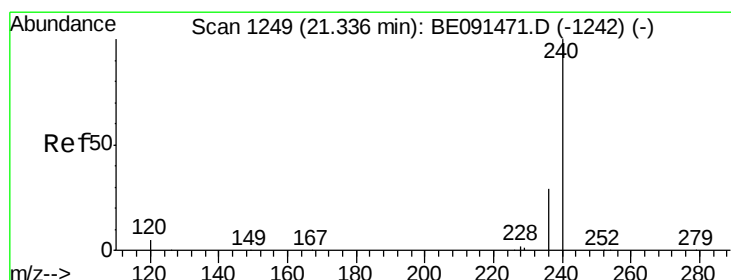
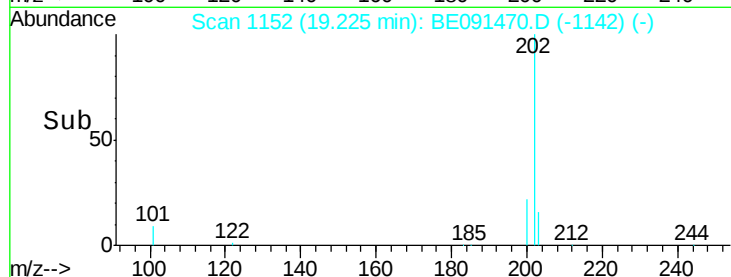
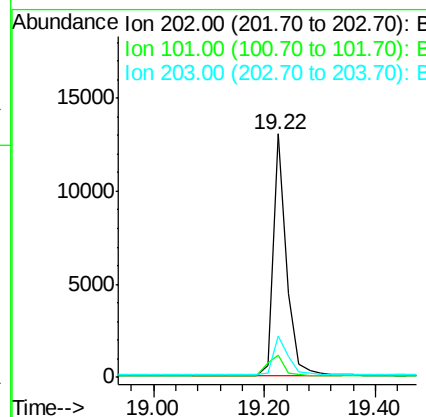
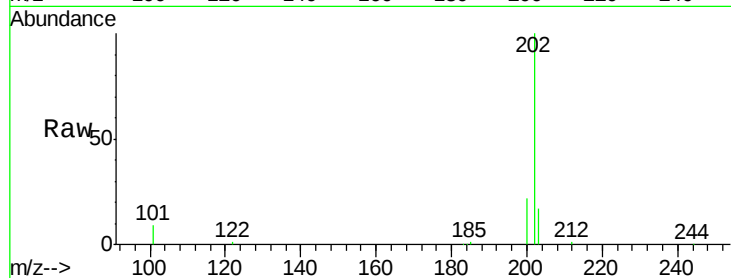
ClientSampleId :

SSTDIC0.2

Tgt	Ion	202	Resp:	22412
Ion	Ratio	Lower	Upper	
202	100			
101	10.8	8.3	12.5	
203	18.0	13.9	20.9	

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#22

Chrysene-d12

Concen: 5.00 ng

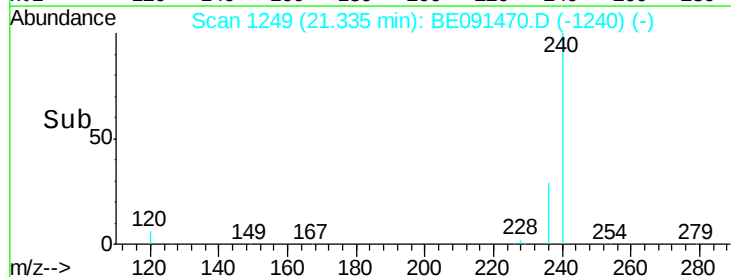
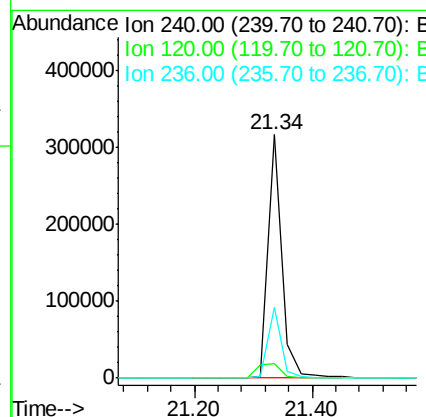
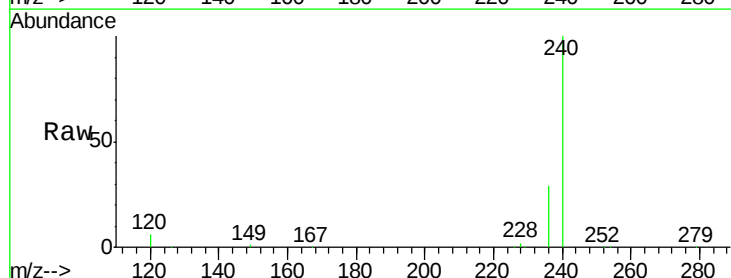
RT: 21.34 min Scan# 1249

Delta R.T. -0.00 min

Lab File: BE091470.D

Acq: 17 Mar 2016 17:15

Tgt	Ion	240	Resp:	519411
Ion	Ratio	Lower	Upper	
240	100			
120	5.9	4.0	6.0	
236	29.3	23.0	34.4	





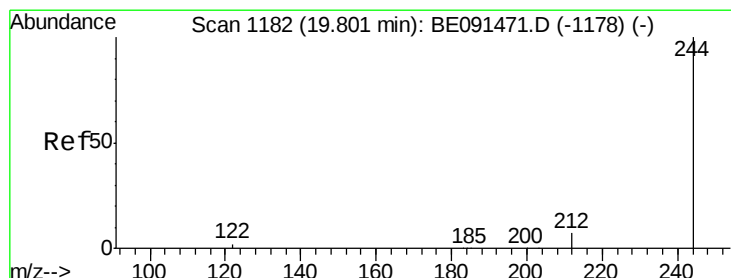
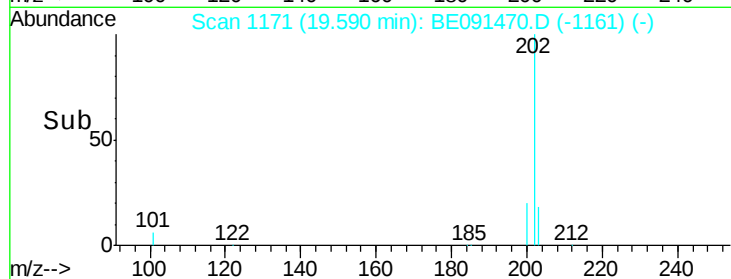
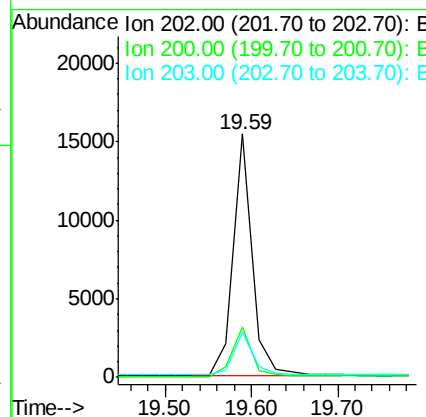
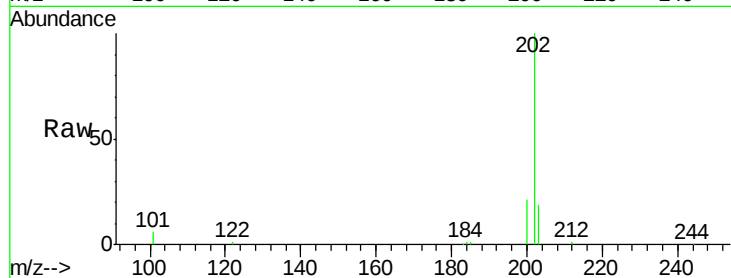
#23
Pyrene
Concen: 0.12 ng
RT: 19.59 min Scan# 1171
Delta R.T. -0.00 min
Lab File: BE091470.D
Acq: 17 Mar 2016 17:15

Instrument :
BNA_E
ClientSampleId :
SSTDIC0.2

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	23876		
200	21.1	16.4	24.6	
203	18.3	14.6	21.8	

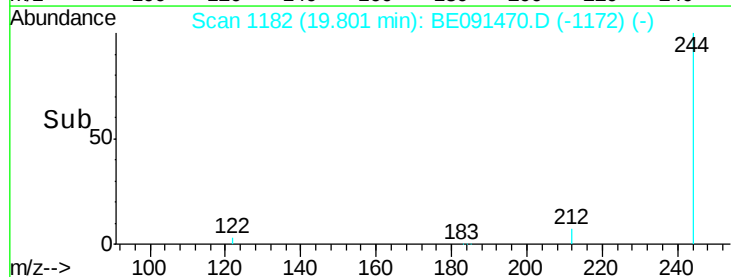
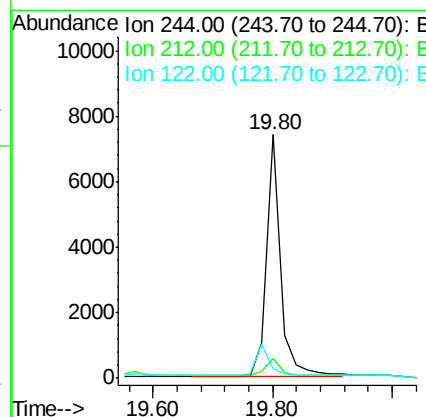
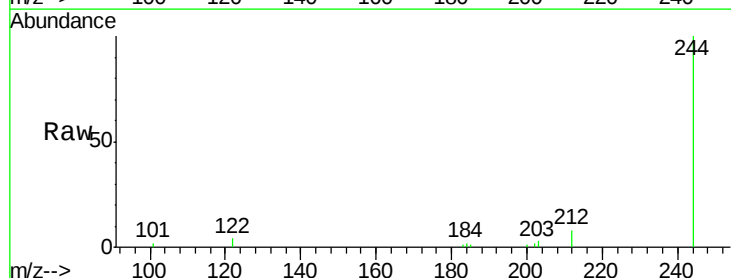
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#24
Terphenyl-d14
Concen: 0.19 ng
RT: 19.80 min Scan# 1182
Delta R.T. -0.00 min
Lab File: BE091470.D
Acq: 17 Mar 2016 17:15

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	12070		
212	8.0	5.8	8.8	
122	4.0	1.8	2.8	





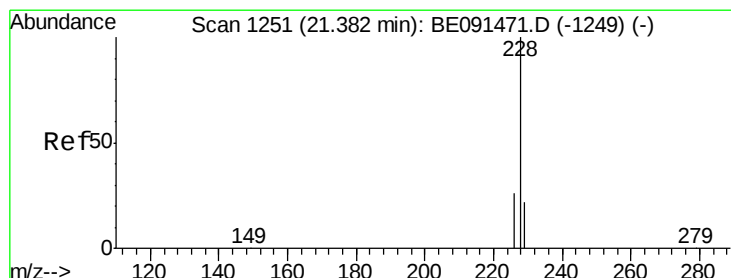
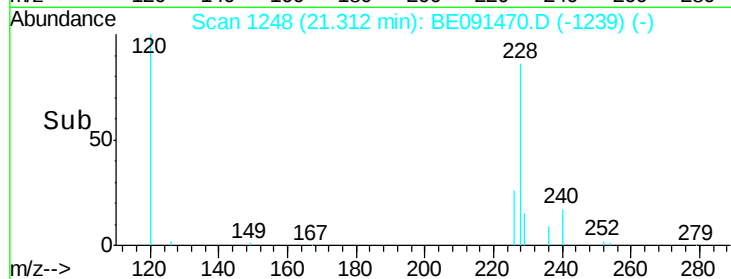
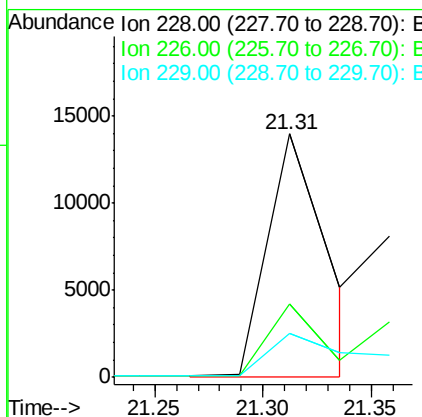
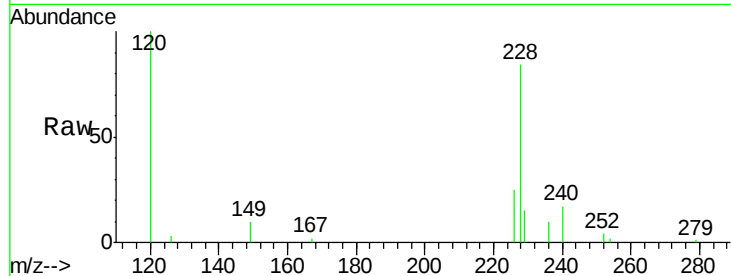
#25
Benzo(a)anthracene
Concen: 0.15 ng m
RT: 21.31 min Scan# 1248
Delta R.T. -0.00 min
Lab File: BE091470.D
Acq: 17 Mar 2016 17:15

Instrument :
BNA_E
ClientSampleId :
SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.0	36.0
229	17.9	13.8	20.6

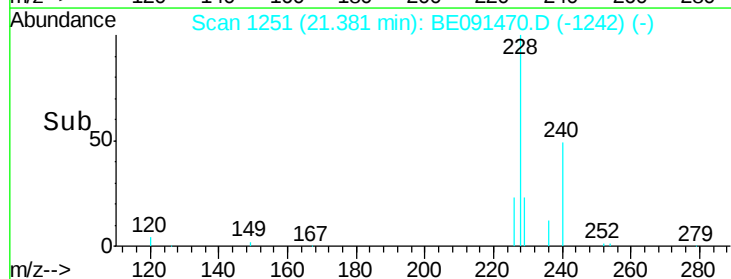
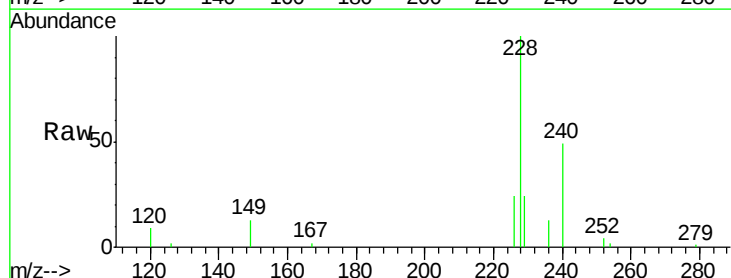
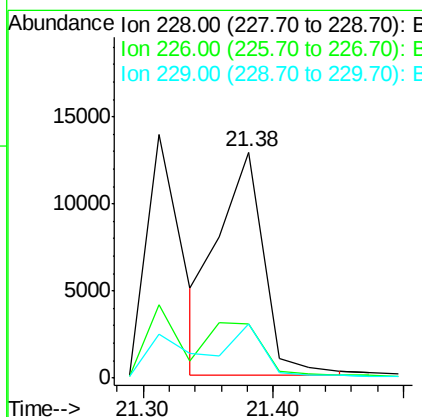
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#26
Chrysene
Concen: 0.17 ng m
RT: 21.38 min Scan# 1251
Delta R.T. -0.00 min
Lab File: BE091470.D
Acq: 17 Mar 2016 17:15

Tgt Ion	Ratio	Lower	Upper
228	100		
226	23.7	18.9	28.3
229	23.8	19.1	28.7





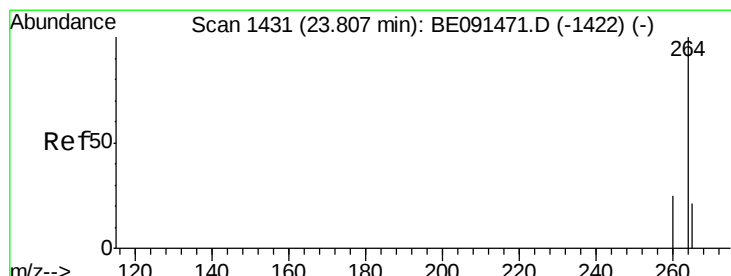
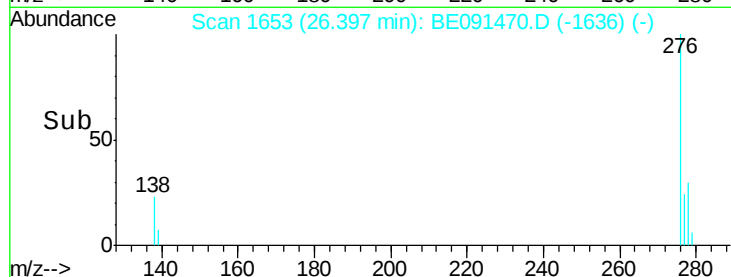
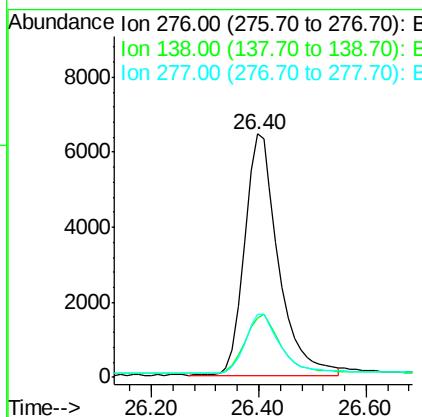
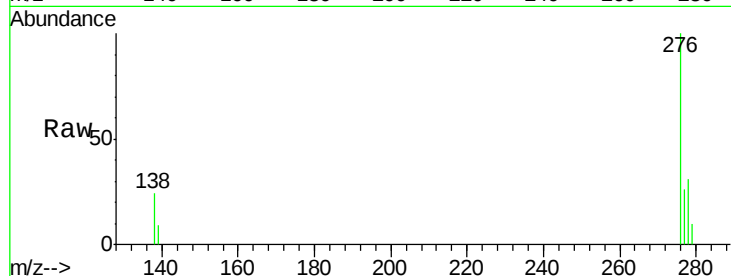
#27
 Indeno(1,2,3-cd)pyrene
 Concen: 0.19 ng
 RT: 26.40 min Scan# 1653
 Delta R.T. -0.00 min
 Lab File: BE091470.D
 Acq: 17 Mar 2016 17:15

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.0	20.2	30.4
277	24.9	19.8	29.8

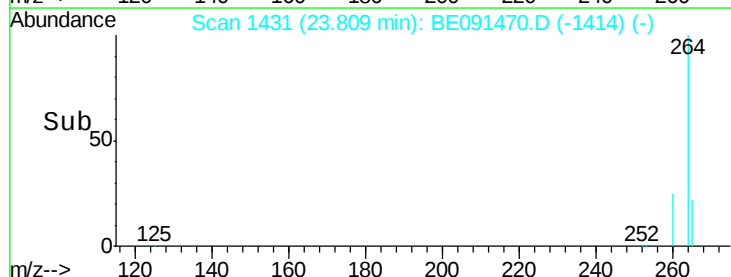
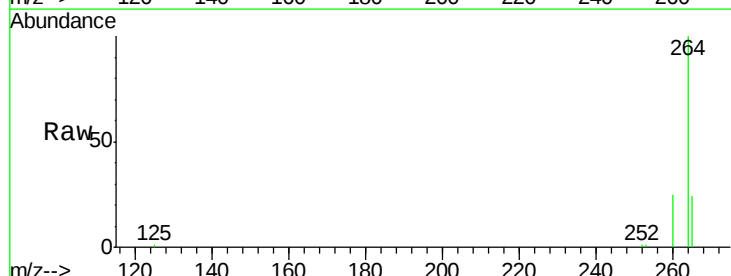
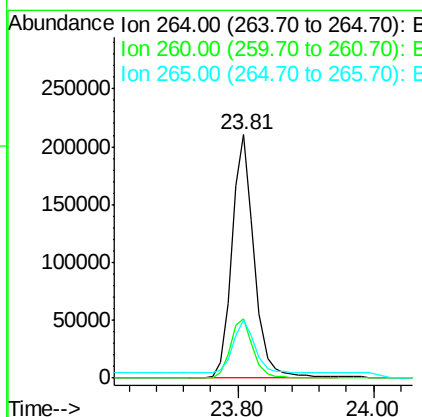
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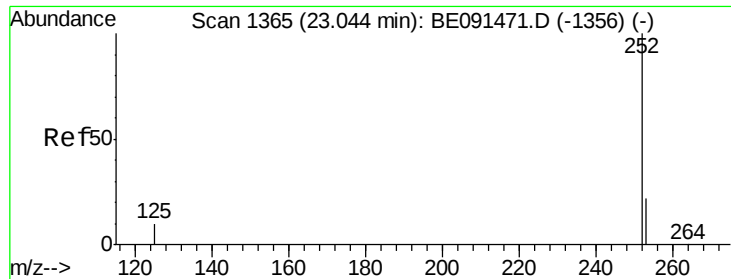
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#28
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.81 min Scan# 1431
 Delta R.T. 0.00 min
 Lab File: BE091470.D
 Acq: 17 Mar 2016 17:15

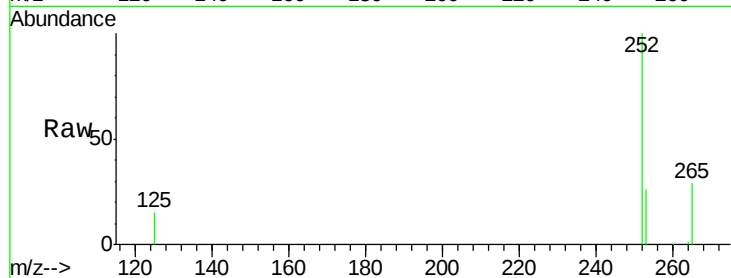
Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.5	20.1	30.1
265	23.7	18.3	27.5





#29
Benzo(b)fluoranthene
Concen: 0.17 ng
RT: 23.05 min Scan# 1365
Delta R.T. 0.00 min
Lab File: BE091470.D
Acq: 17 Mar 2016 17:15

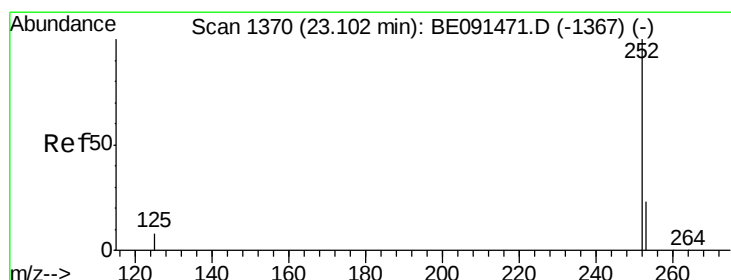
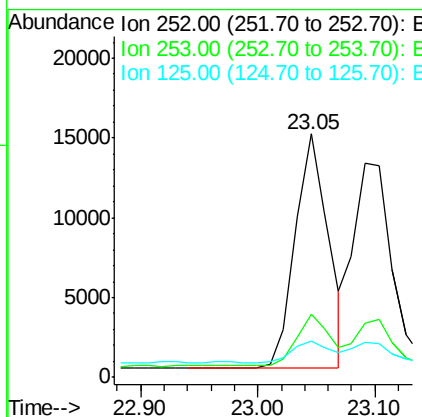
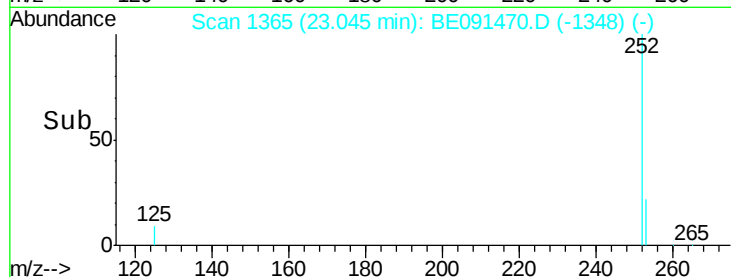
Instrument :
BNA_E
ClientSampleId :
SSTDIC0.2



Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.7	18.7	28.1
125	15.1	9.8	14.6

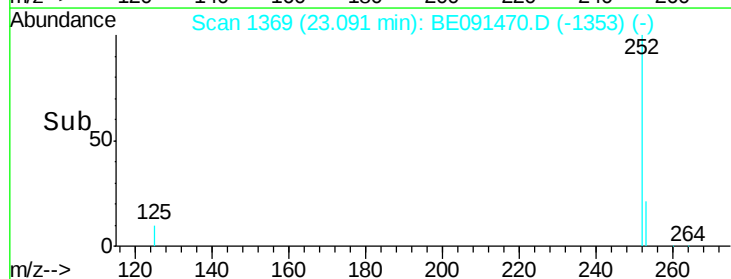
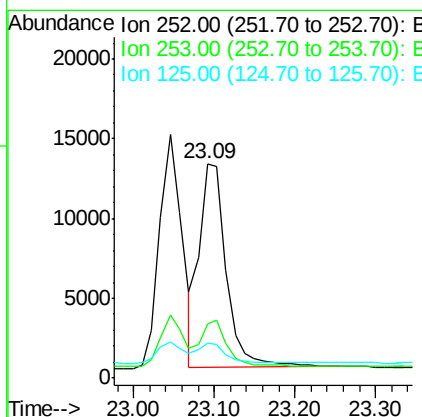
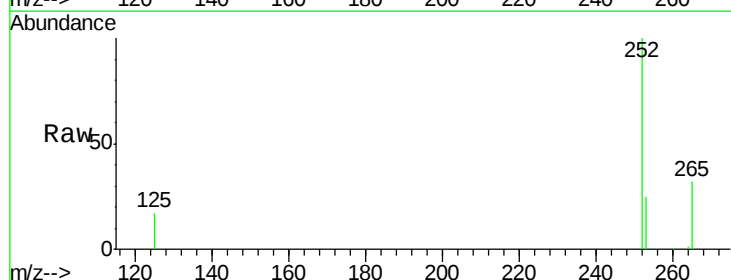
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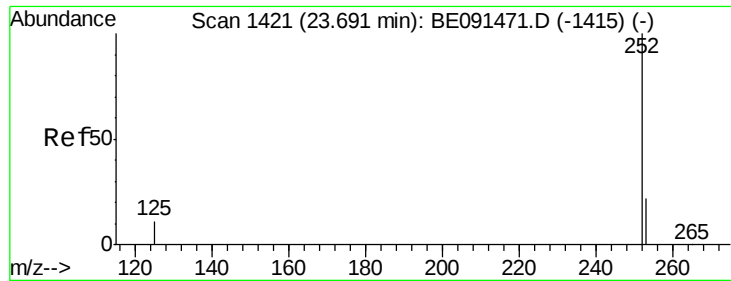
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#30
Benzo(k)fluoranthene
Concen: 0.17 ng
RT: 23.09 min Scan# 1369
Delta R.T. -0.01 min
Lab File: BE091470.D
Acq: 17 Mar 2016 17:15

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.4	20.2	30.4
125	16.6	9.4	14.2





#31

Benzo(a)pyrene

Concen: 0.16 ng

RT: 23.69 min Scan# 1421

Delta R.T. 0.00 min

Lab File: BE091470.D

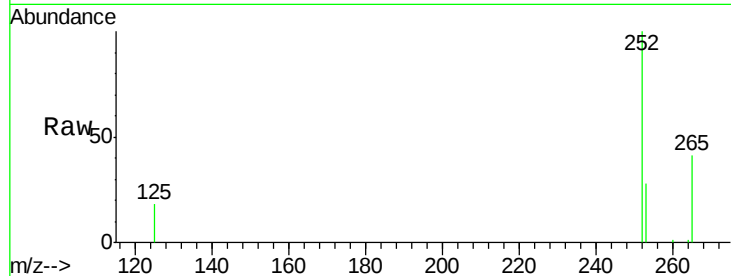
Acq: 17 Mar 2016 17:15

Instrument :

BNA_E

ClientSampleId :

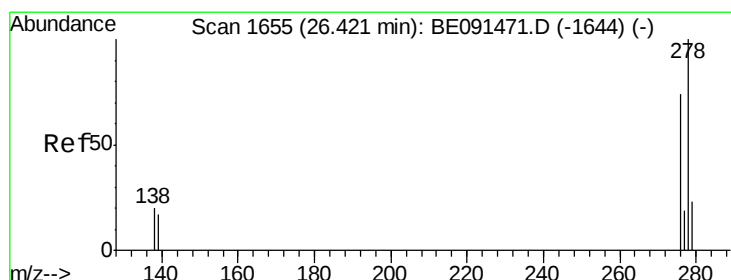
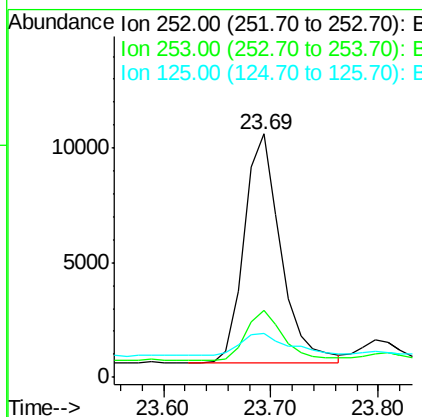
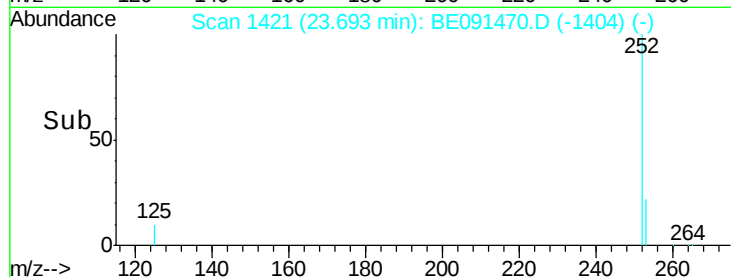
SSTDICC0.2



Tgt Ion	Ratio	Lower	Upper
252	100		
253	27.7	19.4	29.0
125	18.2	11.4	17.2#

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#32

Dibenzo(a,h)anthracene

Concen: 0.19 ng

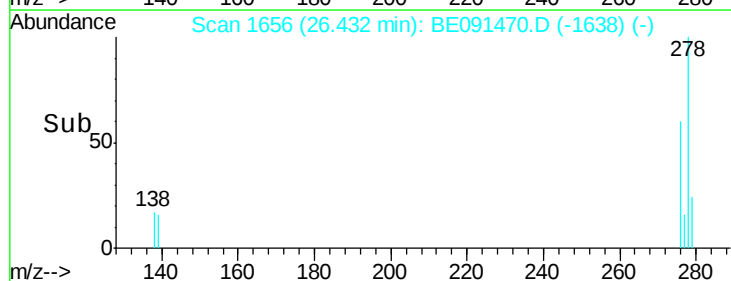
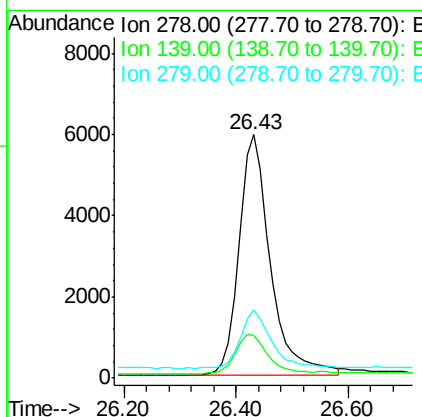
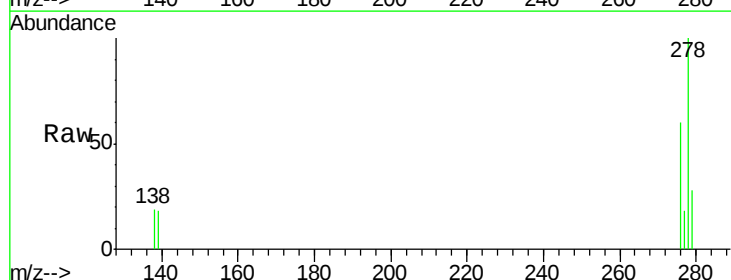
RT: 26.43 min Scan# 1656

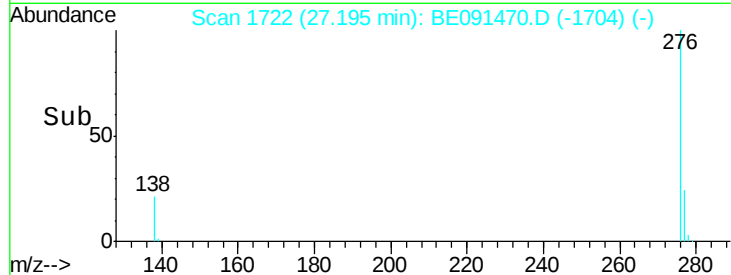
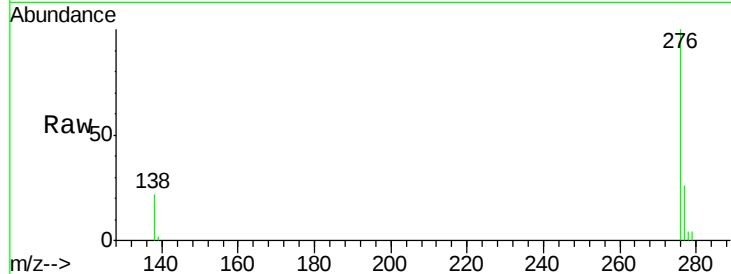
Delta R.T. 0.01 min

Lab File: BE091470.D

Acq: 17 Mar 2016 17:15

Tgt Ion	Ratio	Lower	Upper
278	100		
139	17.6	14.2	21.4
279	27.9	19.6	29.4





#33
 Benzo(g,h,i)perylene
 Concen: 0.18 ng
 RT: 27.20 min Scan# 1722
 Delta R.T. 0.01 min
 Lab File: BE091470.D
 Acq: 17 Mar 2016 17:15

Instrument :
 BNA_E
 ClientSampleId :
 SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.7	19.4	29.2
138	22.4	18.2	27.4

Manual Integrations
 APPROVED

UMANGI
 3/18/2016 6:10:44 PM

