

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032216\
 Data File : BE091508.D
 Acq On : 22 Mar 2016 20:19
 Operator : UM/SJ
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations
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Quant Time: Mar 23 02:25:05 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE031816.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 23 02:10:52 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	41515	5.00	ng	0.00
6) Naphthalene-d8	10.59	136	182382	5.00	ng	0.00
10) Acenaphthene-d10	14.43	164	102404	5.00	ng	-0.01
16) Phenanthrene-d10	17.17	188	266432	5.00	ng	0.00
22) Chrysene-d12	21.34	240	305405	5.00	ng	0.00
28) Perylene-d12	23.79	264	291437	5.00	ng	-0.01

System Monitoring Compounds						
4) 2-Fluorophenol	5.43	112	3959	0.41	ng	0.00
5) Phenol-d6	6.99	99	5088	0.41	ng	0.00
7) Nitrobenzene-d5	8.98	82	3550	0.56	ng	0.00
11) 2,4,6-Tribromophenol	15.92	330	1592	0.66	ng	0.00
12) 2-Fluorobiphenyl	13.07	172	11415	0.44	ng	0.00
24) Terphenyl-d14	19.78	244	17615	0.48	ng	0.00

Target Compounds						Qvalue
2) 1,4-Dioxane	3.37	88	2498	0.48	ng	# 95
3) n-Nitrosodimethylamine	3.68	42	3014	0.41	ng	# 93
8) Naphthalene	10.65	128	20435	0.46	ng	95
9) 2-Methylnaphthalene	12.26	142	11727	0.41	ng	97
13) Acenaphthylene	14.15	152	17047	0.45	ng	# 93
14) Acenaphthene	14.50	154	14519	0.46	ng	98
15) Fluorene	15.48	166	17474	0.44	ng	99
17) Hexachlorobenzene	16.48	284	5183	0.45	ng	97
18) Pentachlorophenol	16.83	266	1535	0.45	ng	# 85
19) Phenanthrene	17.21	178	35013	0.46	ng	100
20) Anthracene	17.30	178	27555	0.41	ng	100
21) Fluoranthene	19.22	202	34550	0.40	ng	98
23) Pyrene	19.57	202	35674	0.47	ng	99
25) Benzo(a)anthracene	21.31	228	38900	0.46	ng	# 89
26) Chrysene	21.36	228	50089m	0.64	ng	
27) Indeno(1,2,3-cd)pyrene	26.38	276	37275	0.43	ng	99
29) Benzo(b)fluoranthene	23.03	252	38452	0.42	ng	98
30) Benzo(k)fluoranthene	23.08	252	37355	0.40	ng	96
31) Benzo(a)pyrene	23.67	252	29608	0.36	ng	97
32) Dibenzo(a,h)anthracene	26.40	278	31252	0.39	ng	99
33) Benzo(g,h,i)perylene	27.16	276	33757	0.41	ng	99

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

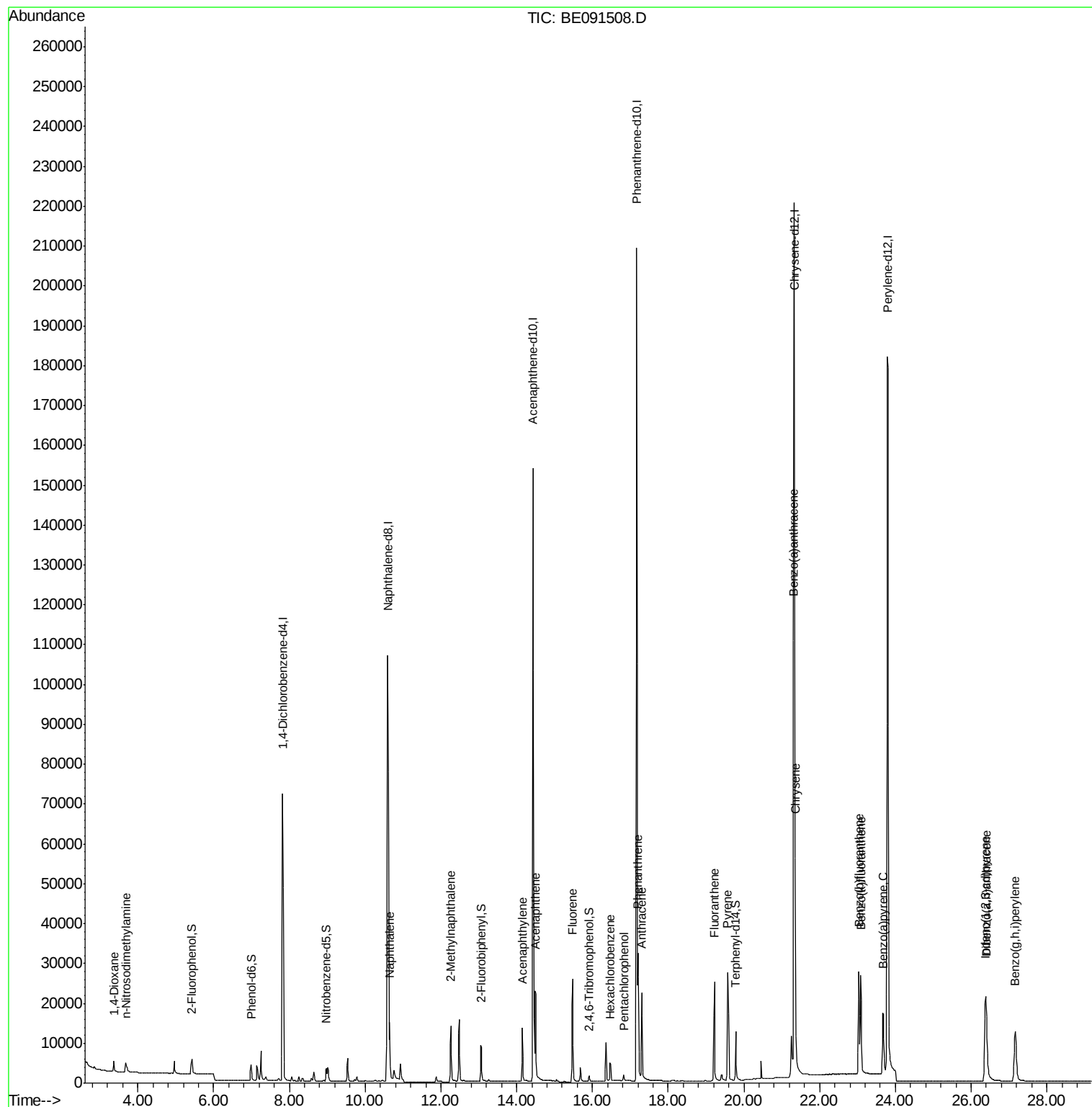
Data Path : Z:\HPCHEM1\BNA_E\DATA\BE032216\
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Misc :
ALS Vial : 2 Sample Multiplier: 1

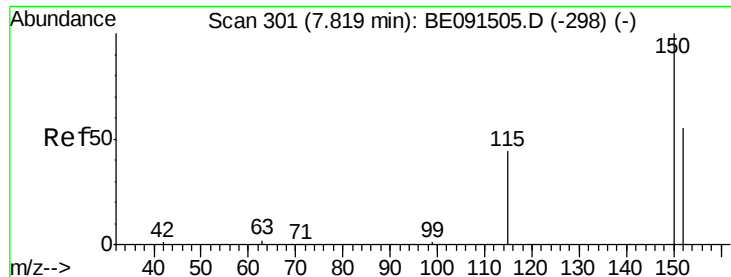
Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4EC

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 23 02:10:52 2016
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.82 min Scan# 301

Delta R.T. -0.00 min

Lab File: BE091508.D

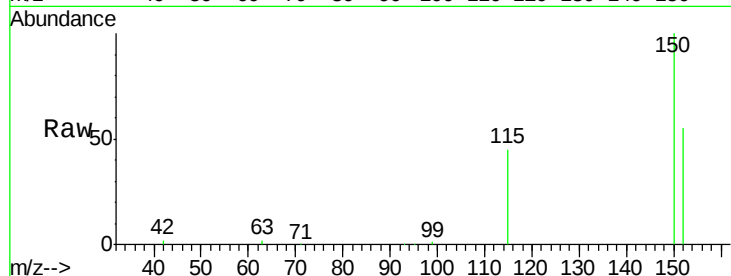
Acq: 22 Mar 2016 20:19

Instrument :

BNA_E

ClientSampleId :

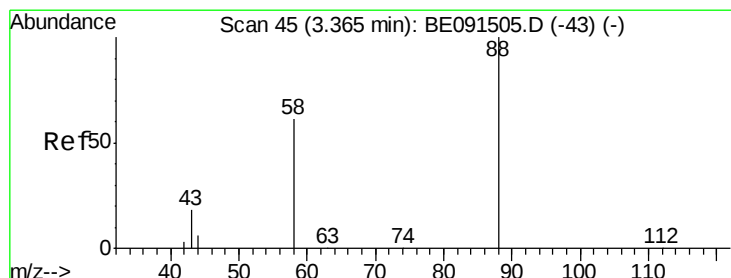
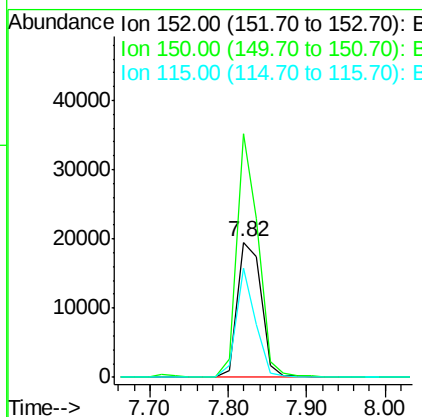
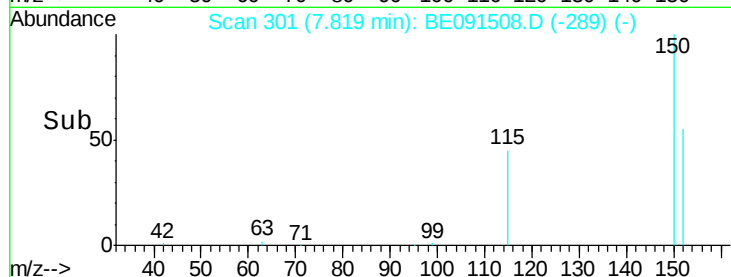
SSTDCCC0.4EC



Tgt Ion:	152	Resp:	41515
Ion Ratio	Lower	Upper	
152	100		
150	180.4	122.2	183.2
115	80.6	45.9	68.9#

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#2

1,4-Dioxane

Concen: 0.48 ng

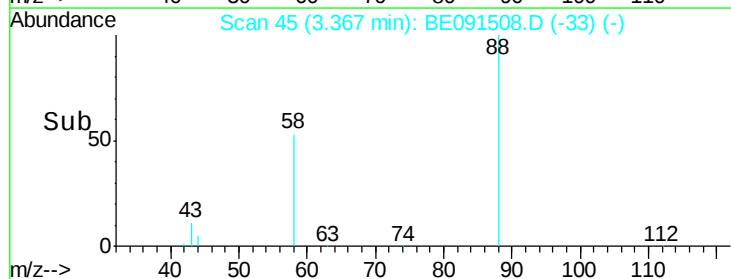
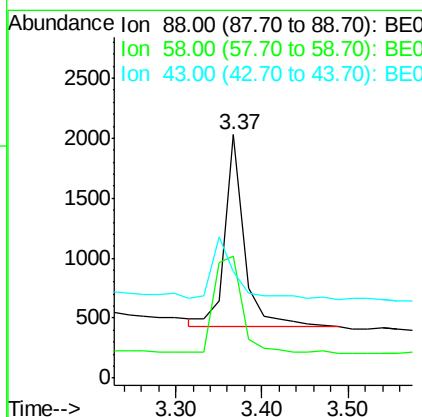
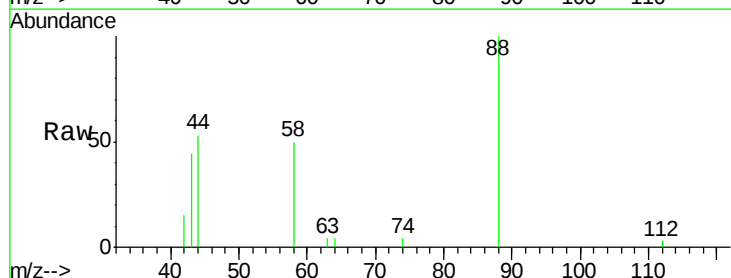
RT: 3.37 min Scan# 45

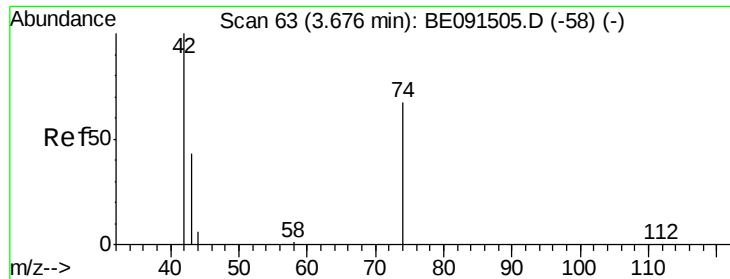
Delta R.T. 0.00 min

Lab File: BE091508.D

Acq: 22 Mar 2016 20:19

Tgt Ion:	88	Resp:	2498
Ion Ratio	Lower	Upper	
88	100		
58	75.0	61.0	91.6
43	39.7	25.4	38.2#





#3

n-Nitrosodimethylamine

Concen: 0.41 ng

RT: 3.68 min Scan# 63

Delta R.T. 0.00 min

Lab File: BE091508.D

Acq: 22 Mar 2016 20:19

Instrument :

BNA_E

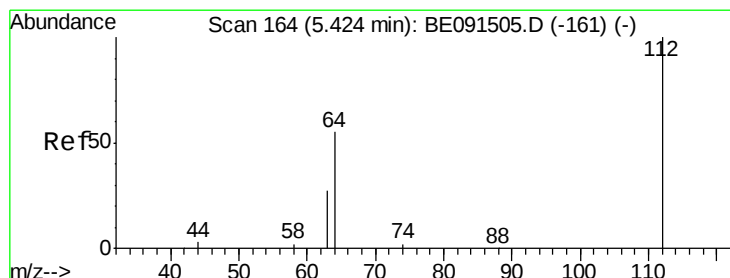
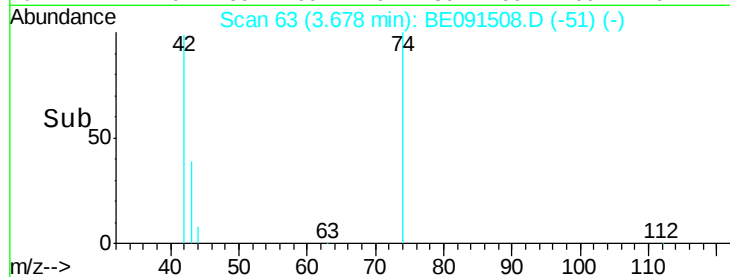
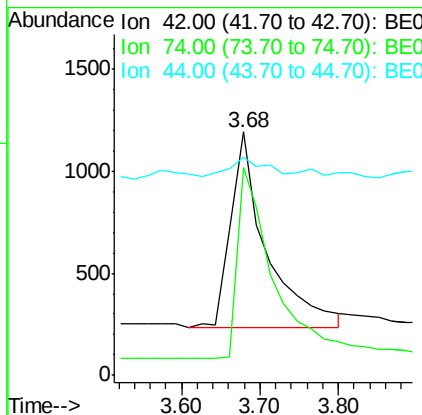
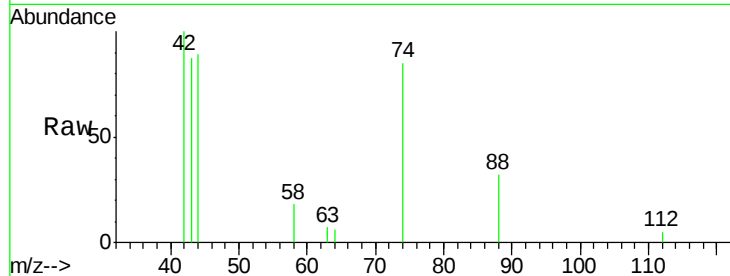
ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:	42	Resp:	3014
Ion	Ratio	Lower	Upper
42	100		
74	98.0	84.3	126.5
44	10.7	6.7	10.1#

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#4

2-Fluorophenol

Concen: 0.41 ng

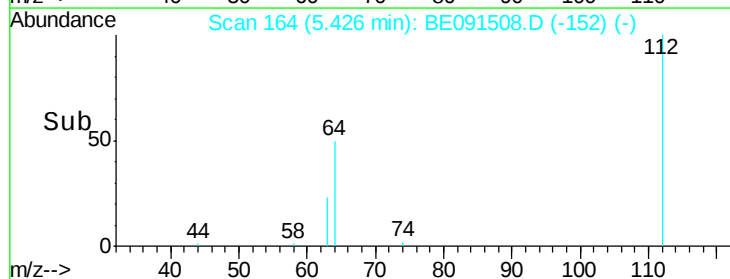
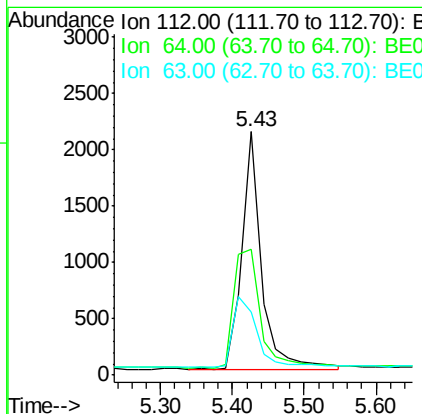
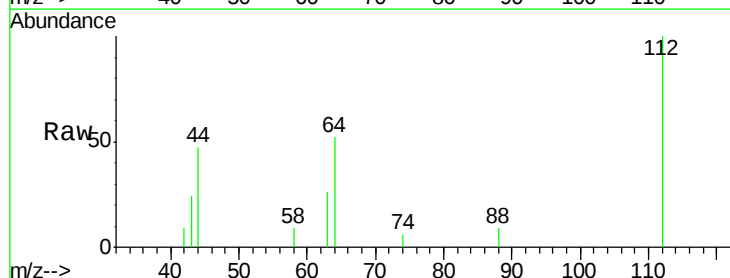
RT: 5.43 min Scan# 164

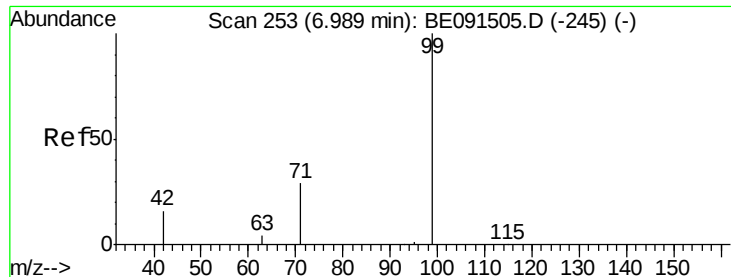
Delta R.T. 0.00 min

Lab File: BE091508.D

Acq: 22 Mar 2016 20:19

Tgt Ion:	112	Resp:	3959
Ion	Ratio	Lower	Upper
112	100		
64	68.2	53.3	79.9
63	36.4	29.8	44.8





#5

Phenol-d6

Concen: 0.41 ng

RT: 6.99 min Scan# 253

Delta R.T. -0.00 min

Lab File: BE091508.D

Acq: 22 Mar 2016 20:19

Instrument :

BNA_E

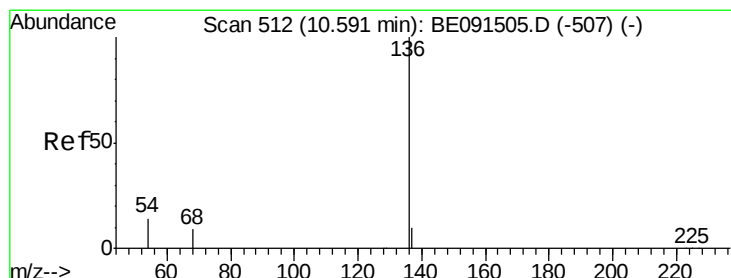
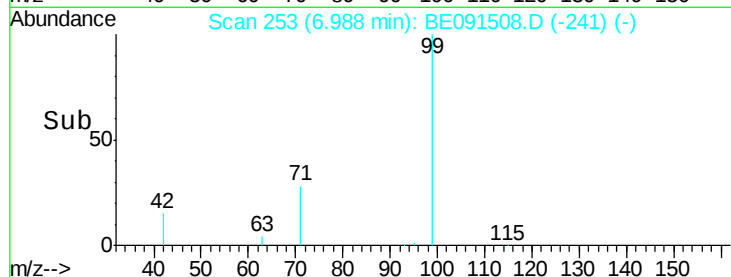
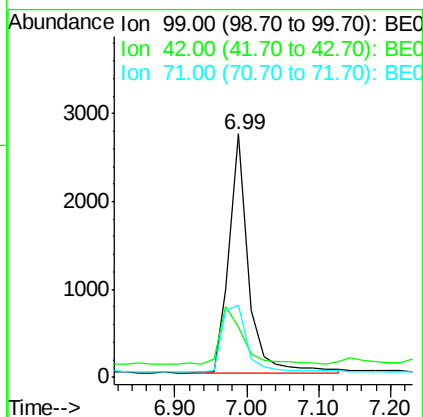
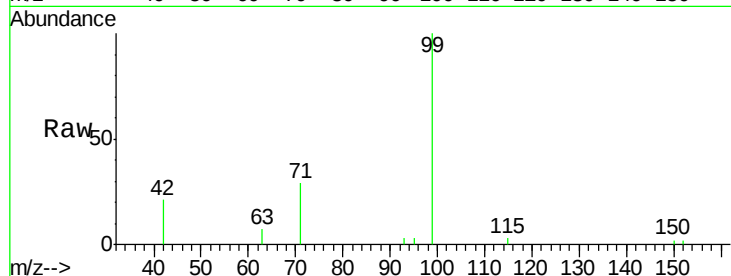
ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:	99	Resp:	5088
Ion Ratio	Lower	Upper	
99	100		
42	28.8	20.6	30.8
71	37.7	29.0	43.4

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#6

Naphthalene-d8

Concen: 5.00 ng

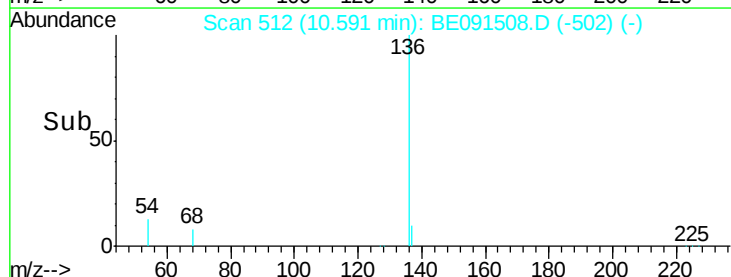
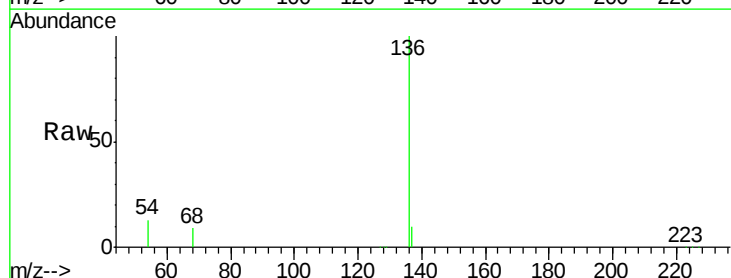
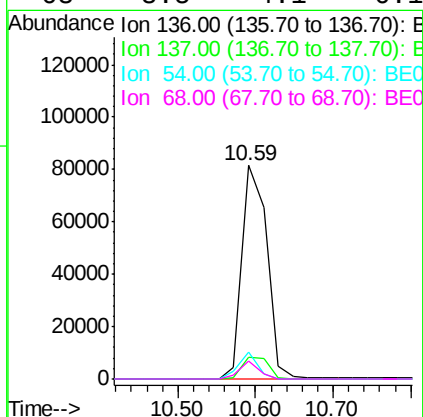
RT: 10.59 min Scan# 512

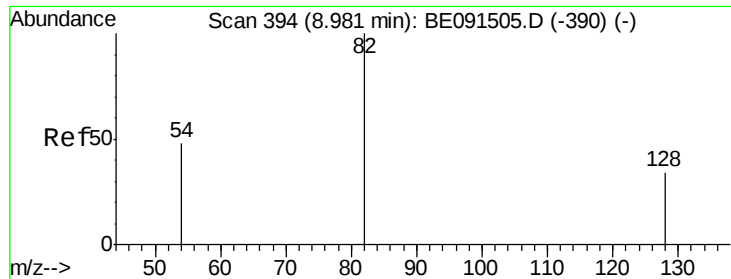
Delta R.T. -0.00 min

Lab File: BE091508.D

Acq: 22 Mar 2016 20:19

Tgt Ion:	136	Resp:	182382
Ion Ratio	Lower	Upper	
136	100		
137	9.9	8.8	13.2
54	12.7	5.2	7.8#
68	8.5	4.1	6.1#





#7

Nitrobenzene-d5

Concen: 0.56 ng

RT: 8.98 min Scan# 394

Delta R.T. -0.00 min

Lab File: BE091508.D

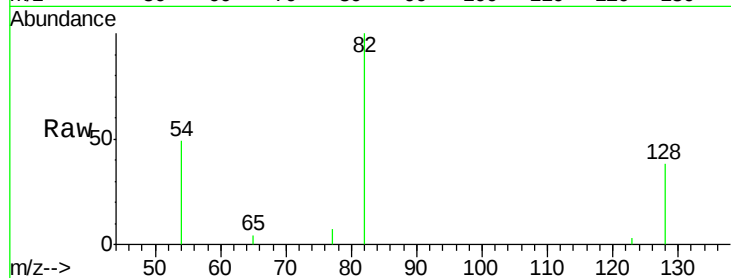
Acq: 22 Mar 2016 20:19

Instrument :

BNA_E

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion: 82 Resp: 3550

Ion Ratio Lower Upper

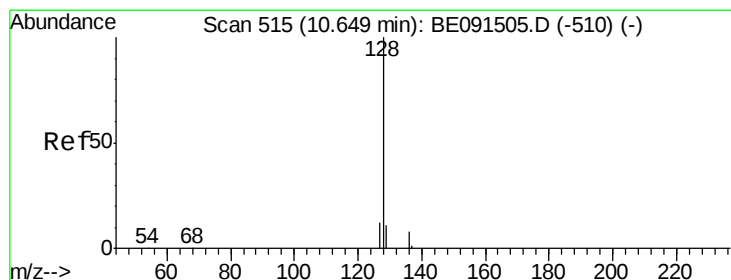
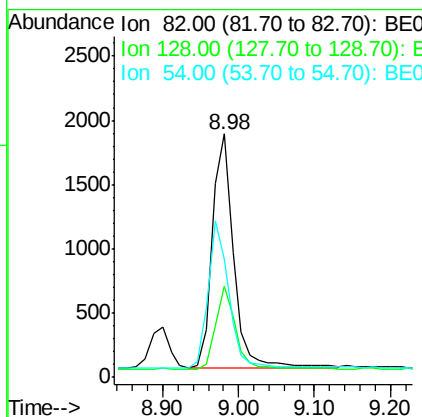
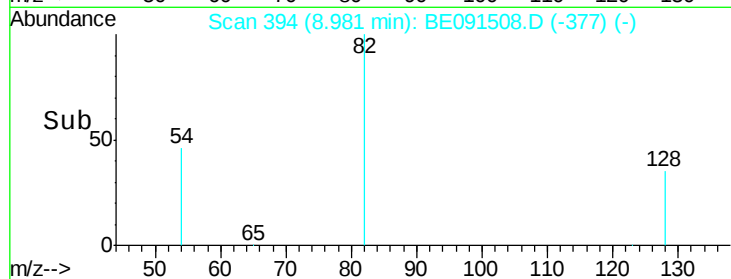
82 100

128 37.5 23.5 35.3#

54 48.5 52.4 78.6#

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#8

Naphthalene

Concen: 0.46 ng

RT: 10.65 min Scan# 515

Delta R.T. -0.00 min

Lab File: BE091508.D

Acq: 22 Mar 2016 20:19

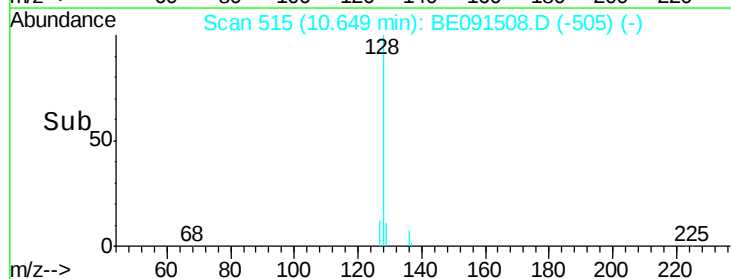
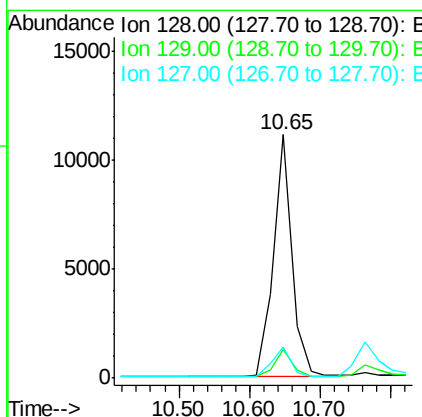
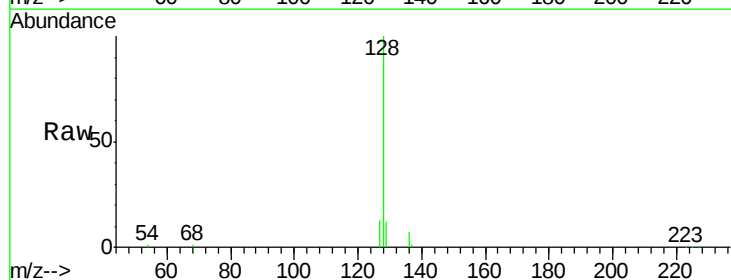
Tgt Ion: 128 Resp: 20435

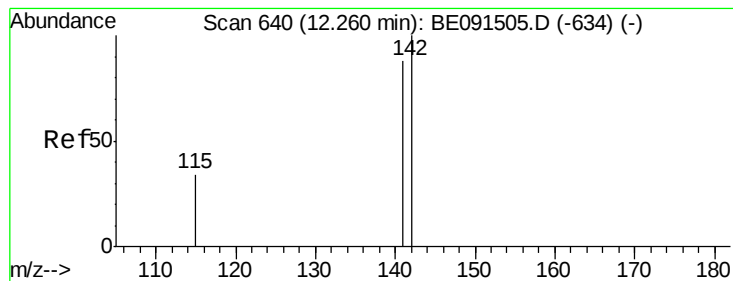
Ion Ratio Lower Upper

128 100

129 11.9 8.2 12.2

127 12.7 11.8 17.8





#9

2-Methylnaphthalene

Concen: 0.41 ng

RT: 12.26 min Scan# 640

Delta R.T. -0.00 min

Lab File: BE091508.D

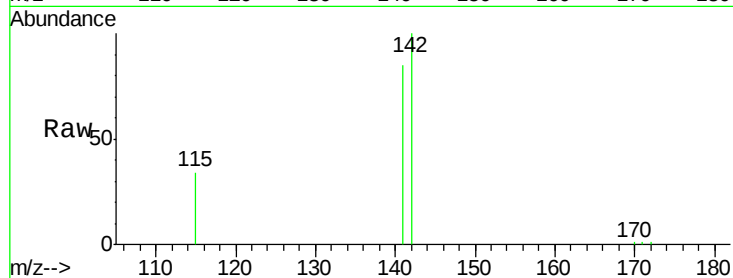
Acq: 22 Mar 2016 20:19

Instrument :

BNA_E

ClientSampleId :

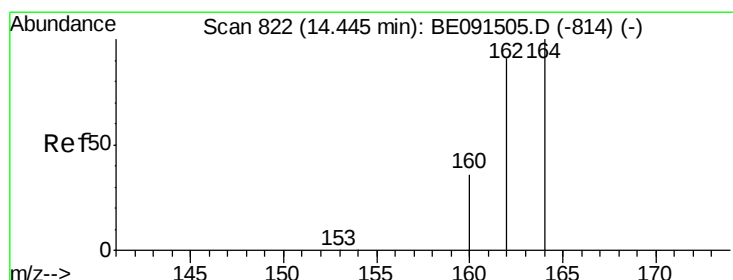
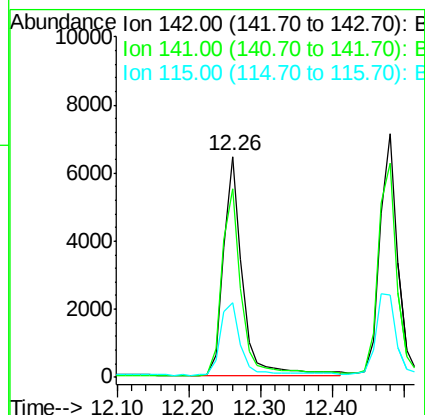
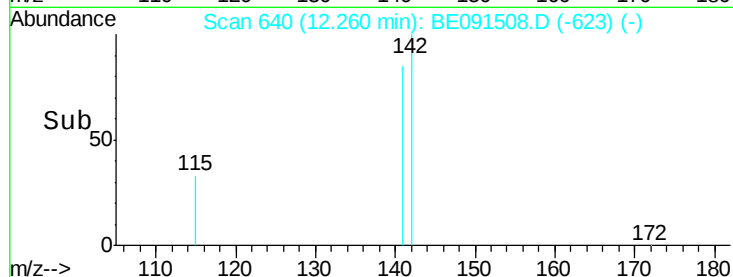
SSTDCCC0.4EC



Tgt Ion:	142	Resp:	11727
Ion Ratio	Lower	Upper	
142	100		
141	85.3	66.9	100.3
115	34.0	25.1	37.7

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#10

Acenaphthene-d10

Concen: 5.00 ng

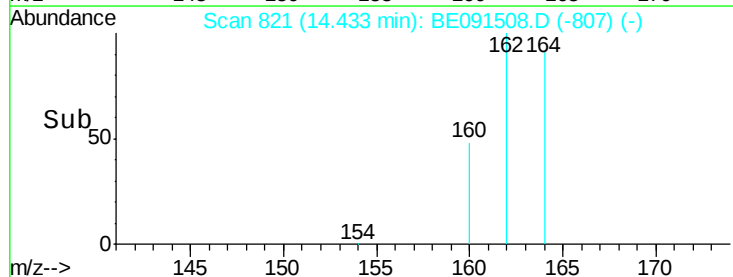
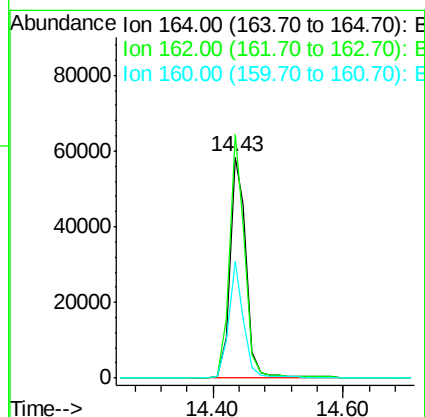
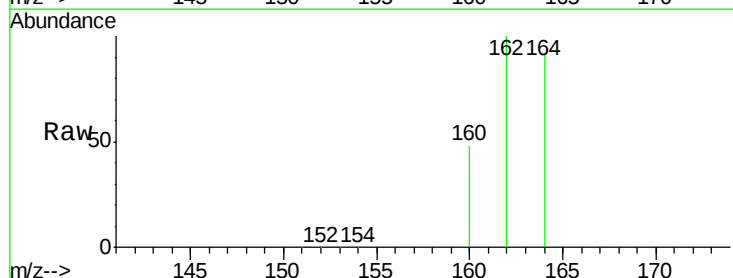
RT: 14.43 min Scan# 821

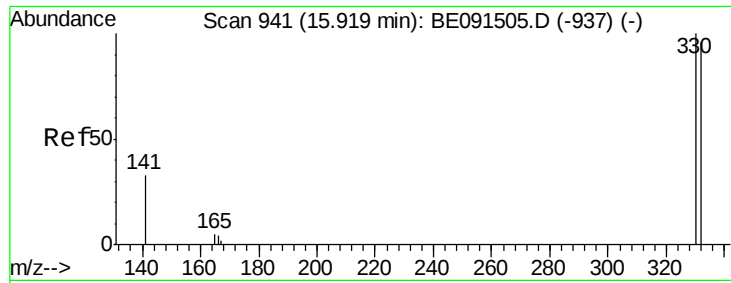
Delta R.T. -0.01 min

Lab File: BE091508.D

Acq: 22 Mar 2016 20:19

Tgt Ion:	164	Resp:	102404
Ion Ratio	Lower	Upper	
164	100		
162	110.1	84.4	126.6
160	53.0	37.7	56.5





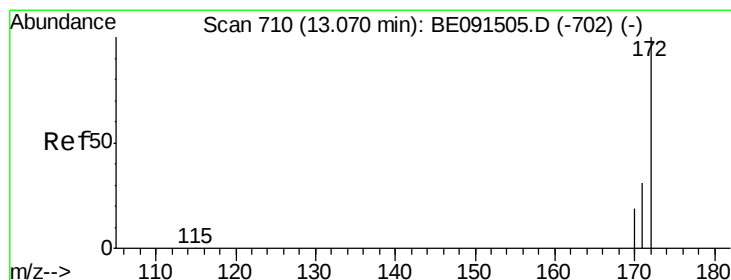
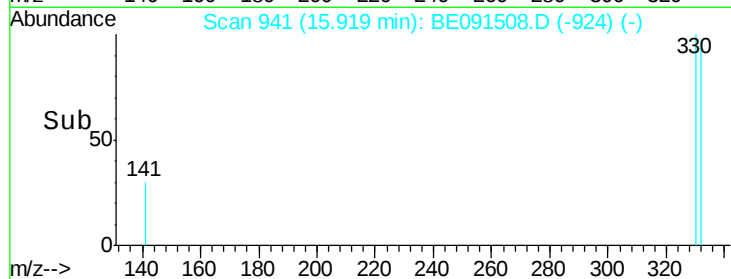
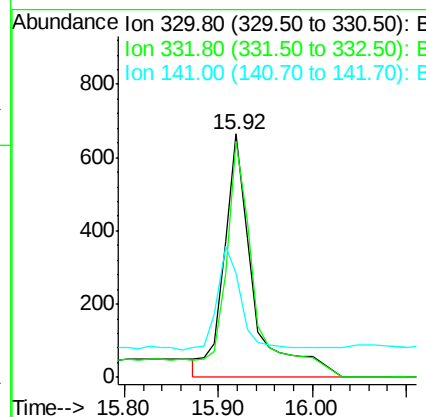
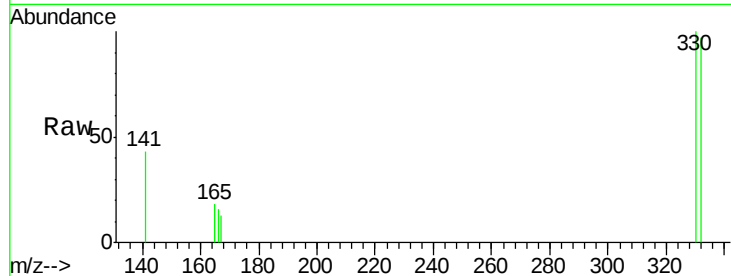
#11
 2,4,6-Tribromophenol
 Concen: 0.66 ng
 RT: 15.92 min Scan# 941
 Delta R.T. -0.00 min
 Lab File: BE091508.D
 Acq: 22 Mar 2016 20:19

Instrument :
 BNA_E
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 SSTDCCC0.4EC

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.9	79.2	118.8
141	31.0	28.1	42.1

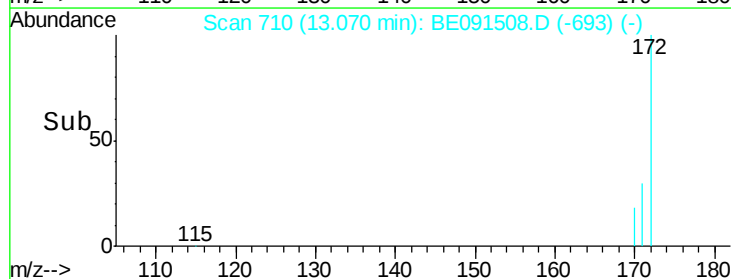
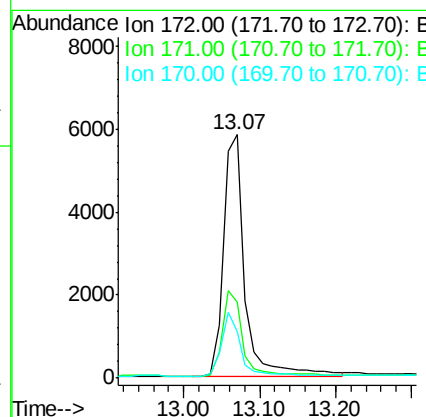
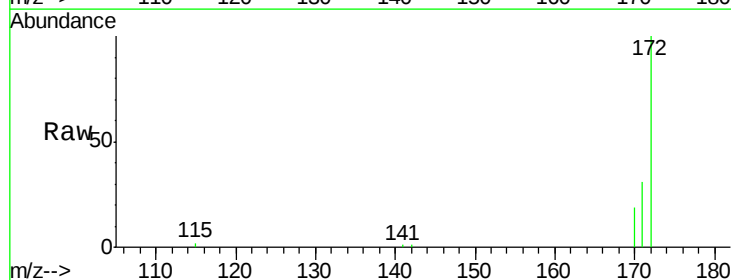
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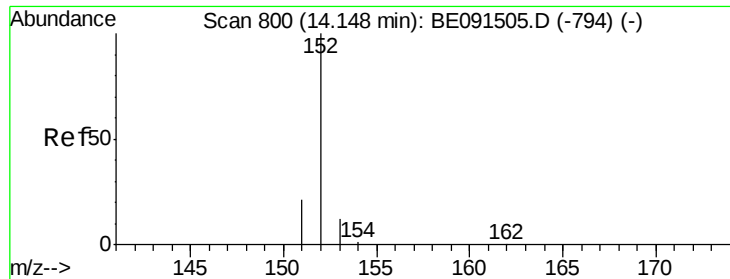
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#12
 2-Fluorobiphenyl
 Concen: 0.44 ng
 RT: 13.07 min Scan# 710
 Delta R.T. -0.00 min
 Lab File: BE091508.D
 Acq: 22 Mar 2016 20:19

Tgt Ion	Ratio	Lower	Upper
172	100		
171	31.2	29.8	44.8
170	18.9	21.4	32.2





#13

Acenaphthylene

Concen: 0.45 ng

RT: 14.15 min Scan# 800

Delta R.T. 0.00 min

Lab File: BE091508.D

Acq: 22 Mar 2016 20:19

Instrument :

BNA_E

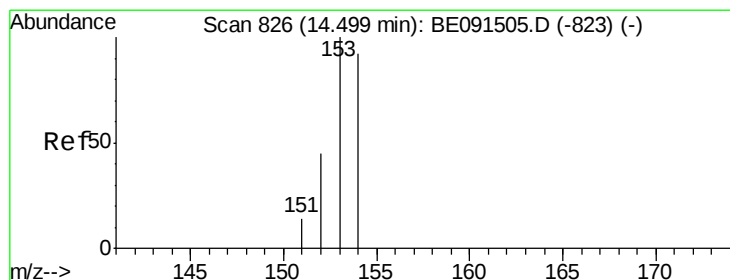
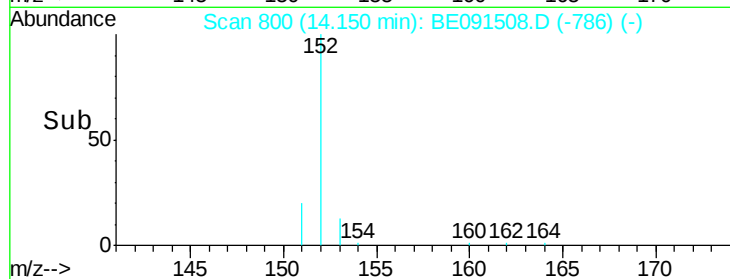
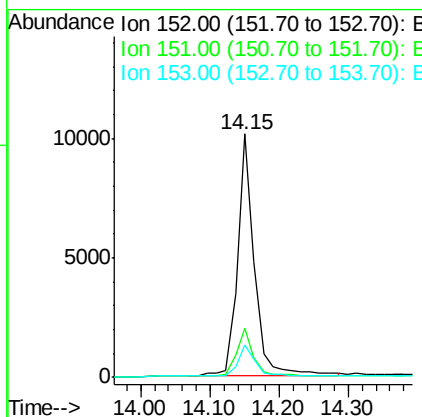
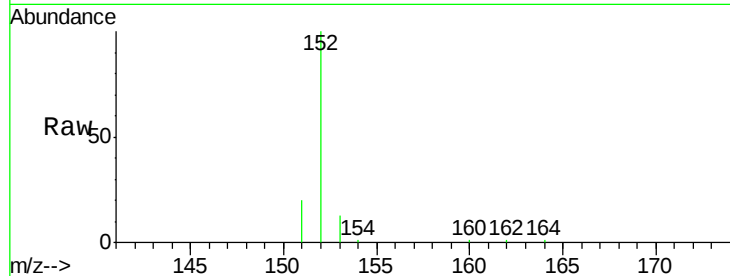
ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:	152	Resp:	17047
Ion Ratio	Lower	Upper	
152	100		
151	20.8	16.3	24.5
153	20.1	11.1	16.7#

Manual Integrations
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#14

Acenaphthene

Concen: 0.46 ng

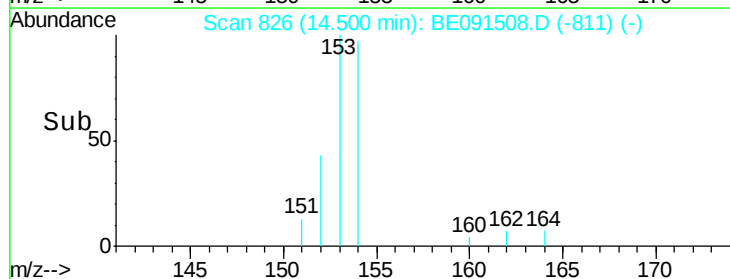
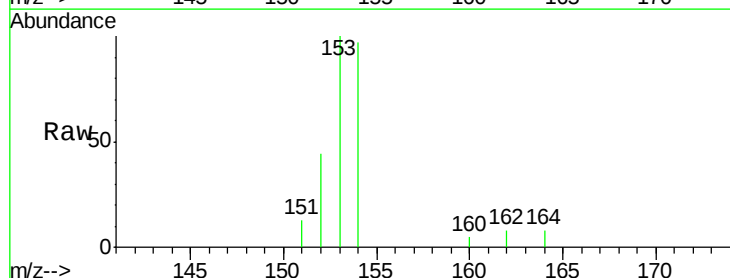
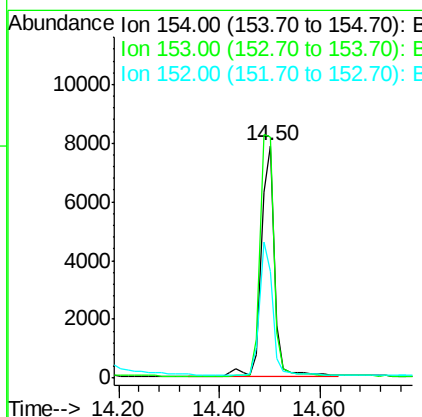
RT: 14.50 min Scan# 826

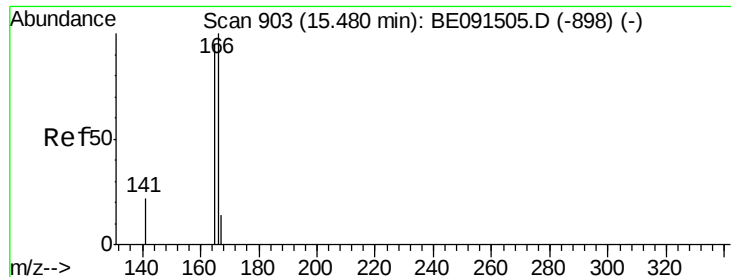
Delta R.T. 0.00 min

Lab File: BE091508.D

Acq: 22 Mar 2016 20:19

Tgt Ion:	154	Resp:	14519
Ion Ratio	Lower	Upper	
154	100		
153	111.0	87.3	130.9
152	55.4	42.9	64.3





#15

Fluorene

Concen: 0.44 ng

RT: 15.48 min Scan# 903

Delta R.T. -0.00 min

Lab File: BE091508.D

Acq: 22 Mar 2016 20:19

Instrument :

BNA_E

ClientSampleId :

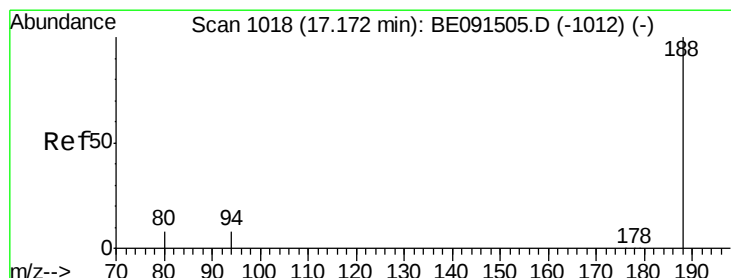
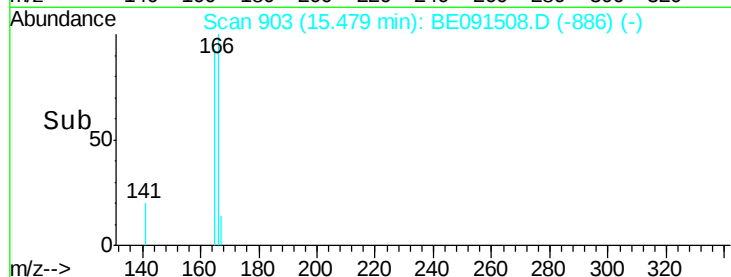
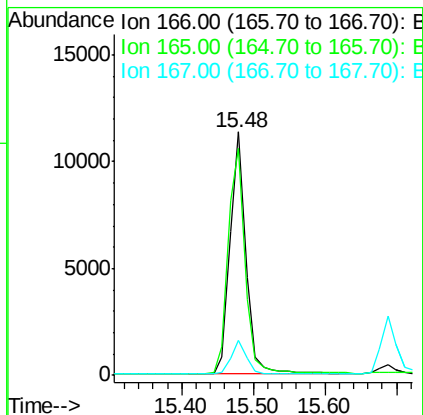
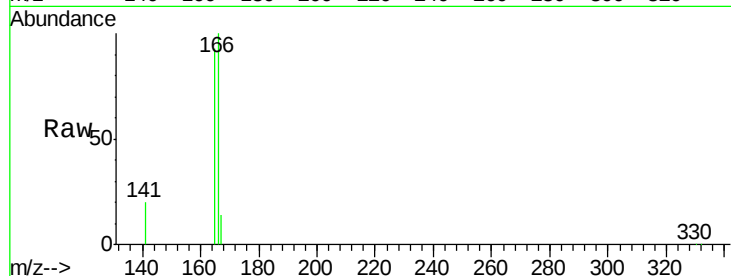
SSTDCCC0.4EC

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Tgt Ion:	166	Resp:	17474
Ion Ratio	Lower	Upper	
166	100		
165	99.7	79.2	118.8
167	13.6	10.8	16.2



#16

Phenanthrene-d10

Concen: 5.00 ng

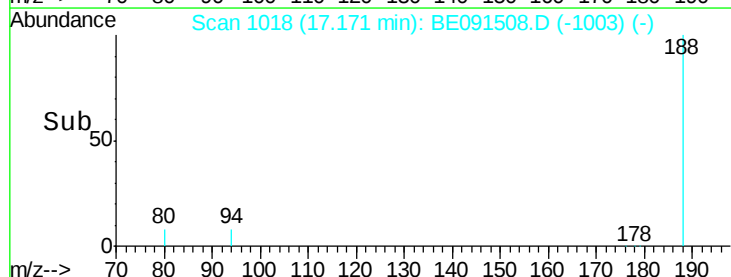
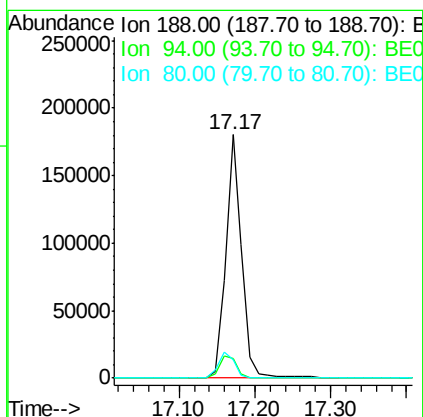
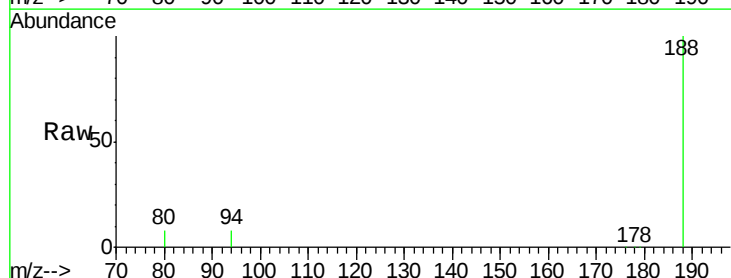
RT: 17.17 min Scan# 1018

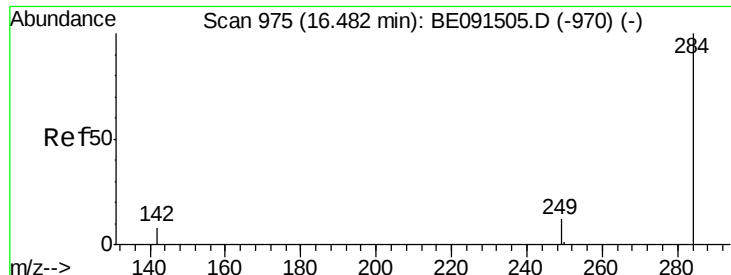
Delta R.T. -0.00 min

Lab File: BE091508.D

Acq: 22 Mar 2016 20:19

Tgt Ion:	188	Resp:	266432
Ion Ratio	Lower	Upper	
188	100		
94	8.1	5.4	8.2
80	7.7	5.0	7.4#





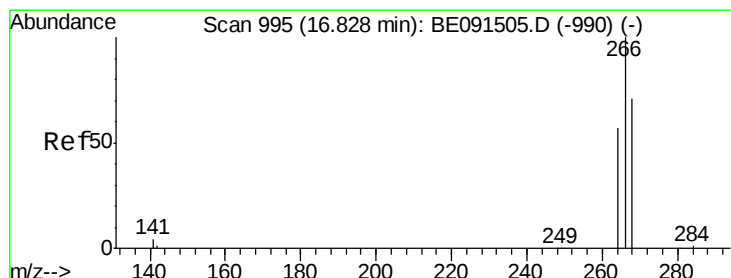
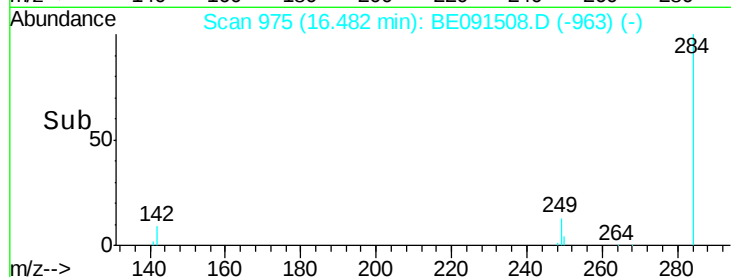
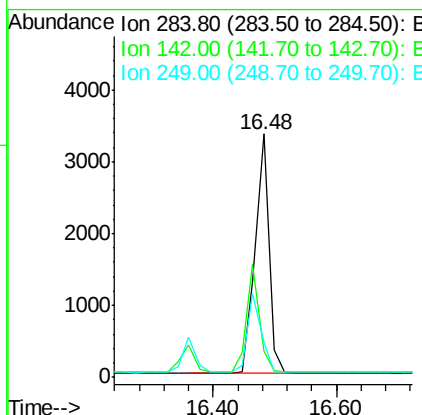
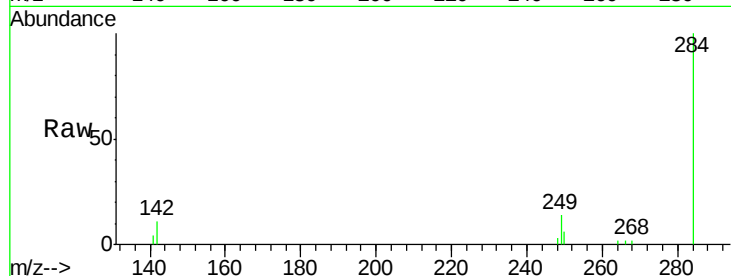
#17
Hexachlorobenzene
Concen: 0.45 ng
RT: 16.48 min Scan# 975
Delta R.T. -0.00 min
Lab File: BE091508.D
Acq: 22 Mar 2016 20:19

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion	Ratio	Lower	Upper
284	100		
142	42.2	31.0	46.4
249	32.5	25.8	38.8

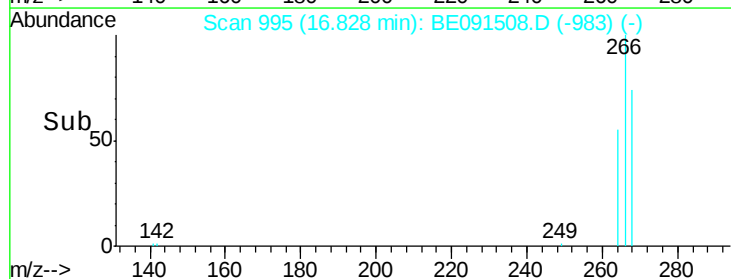
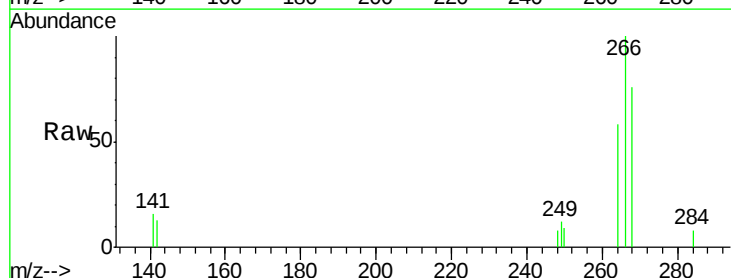
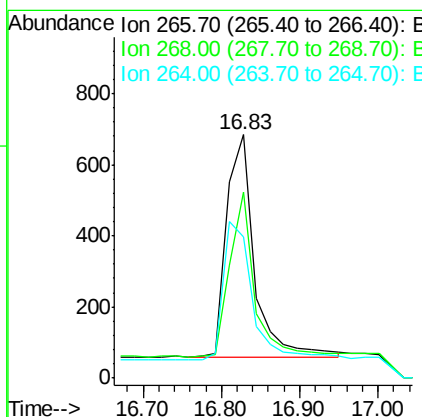
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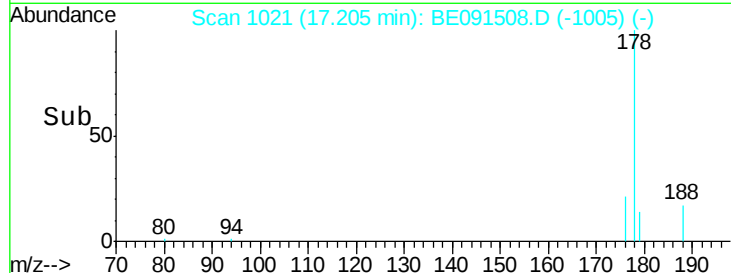
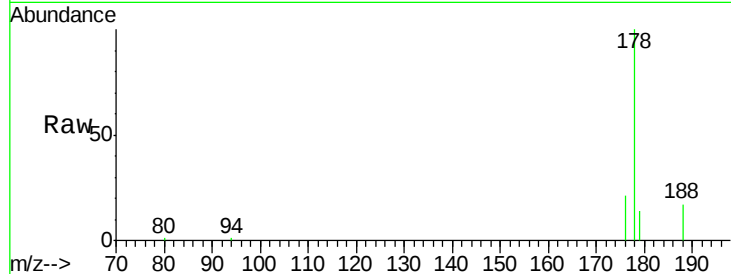
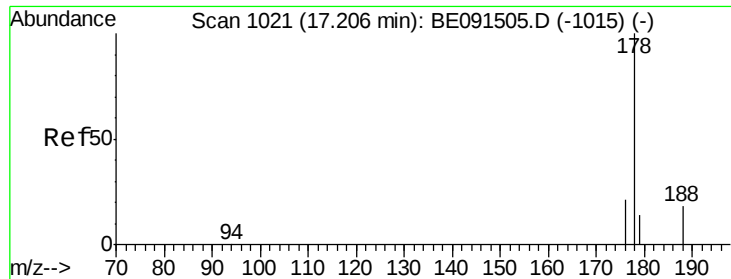
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#18
Pentachlorophenol
Concen: 0.45 ng
RT: 16.83 min Scan# 995
Delta R.T. -0.00 min
Lab File: BE091508.D
Acq: 22 Mar 2016 20:19

Tgt Ion	Ratio	Lower	Upper
266	100		
268	76.4	48.2	72.2#
264	57.8	52.1	78.1





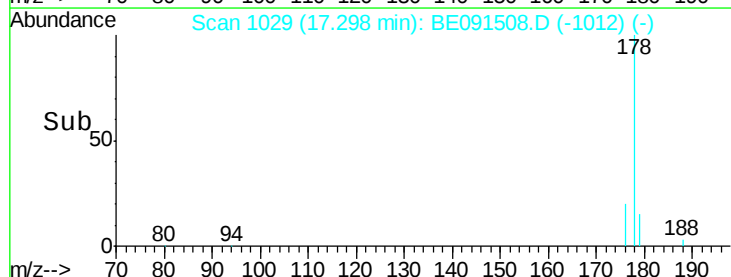
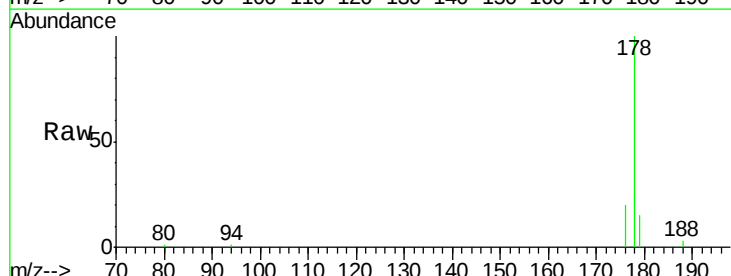
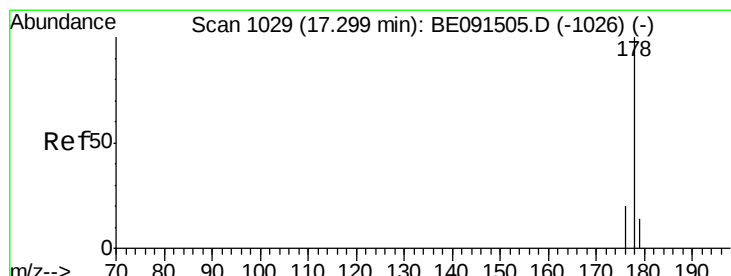
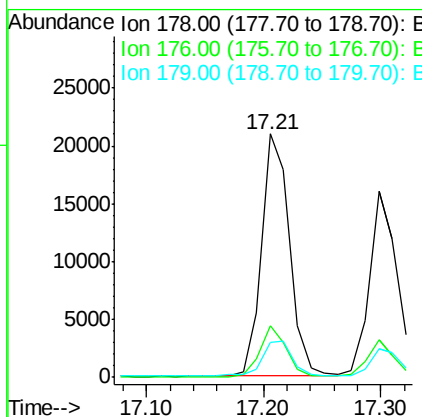
#19
Phenanthrene
Concen: 0.46 ng
RT: 17.21 min Scan# 1021
Delta R.T. -0.00 min
Lab File: BE091508.D
Acq: 22 Mar 2016 20:19

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.5	23.3
179	16.0	13.1	19.7

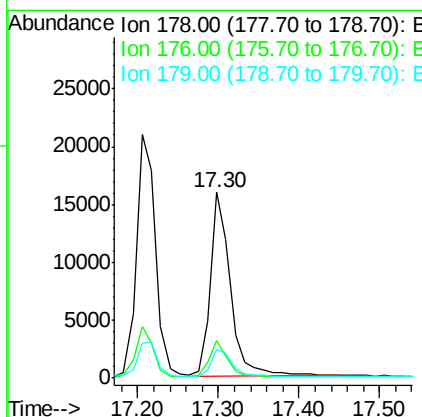
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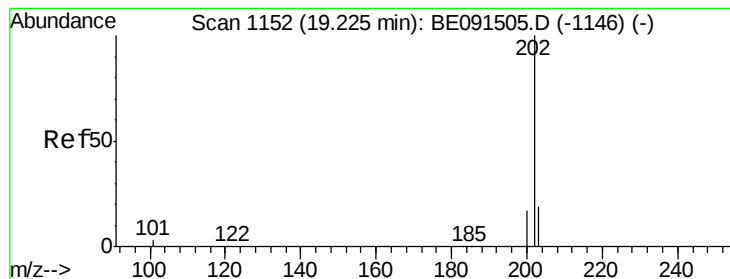
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#20
Anthracene
Concen: 0.41 ng
RT: 17.30 min Scan# 1029
Delta R.T. -0.00 min
Lab File: BE091508.D
Acq: 22 Mar 2016 20:19

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	14.9	22.3
179	15.4	12.2	18.4





#21

Fluoranthene

Concen: 0.40 ng

RT: 19.22 min Scan# 1152

Delta R.T. -0.00 min

Lab File: BE091508.D

Acq: 22 Mar 2016 20:19

Instrument :

BNA_E

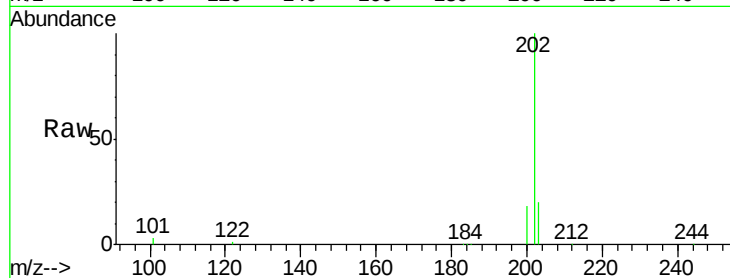
ClientSampleId :

SSTDCCC0.4EC

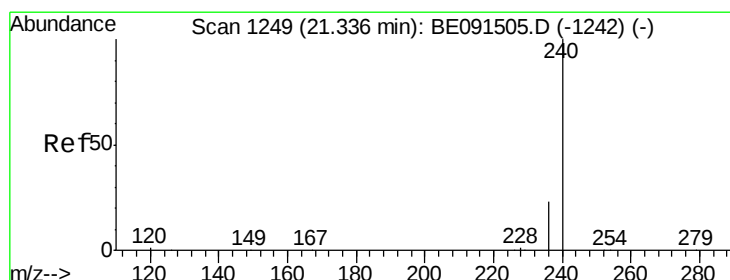
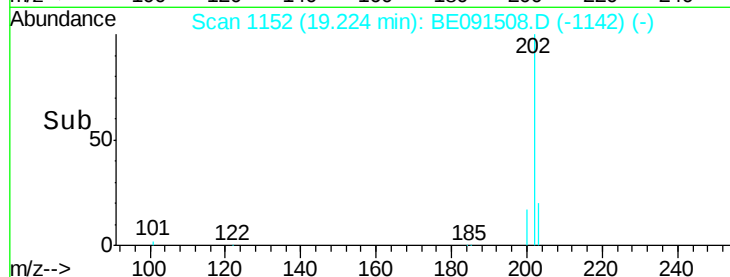
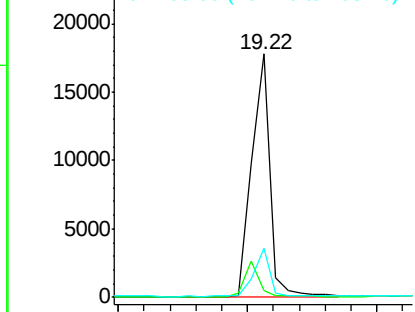
Tgt	Ion	202	Resp:	34550
Ion	Ratio	Lower	Upper	
202	100			
101	11.3	8.3	12.5	
203	17.9	13.9	20.9	

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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



#22

Chrysene-d12

Concen: 5.00 ng

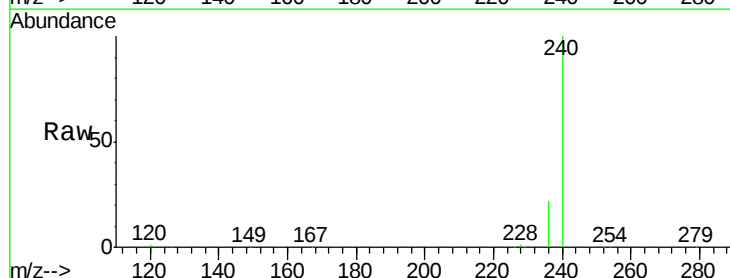
RT: 21.34 min Scan# 1249

Delta R.T. -0.00 min

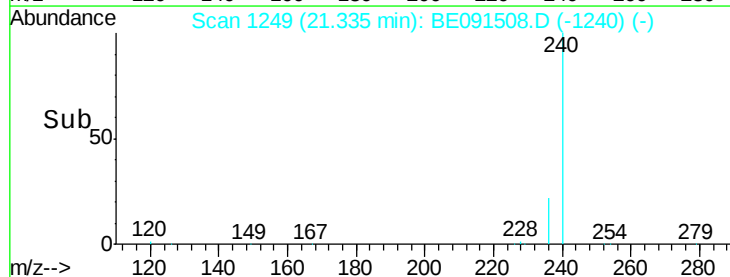
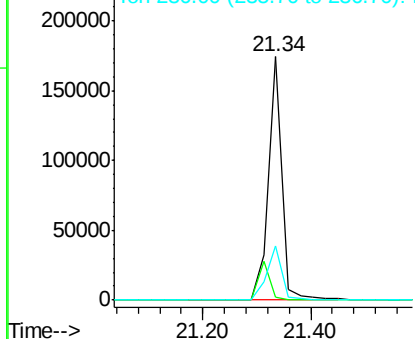
Lab File: BE091508.D

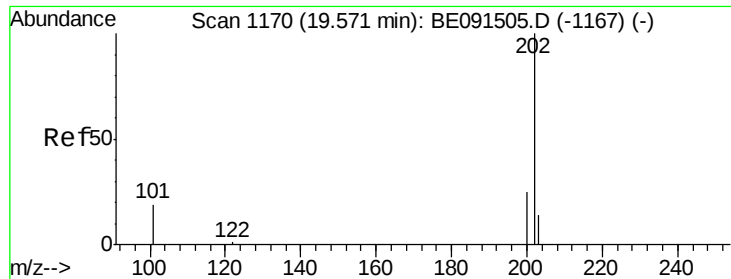
Acq: 22 Mar 2016 20:19

Tgt	Ion	240	Resp:	305405
Ion	Ratio	Lower	Upper	
240	100			
120	1.3	4.0	6.0#	
236	22.4	23.0	34.4#	



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





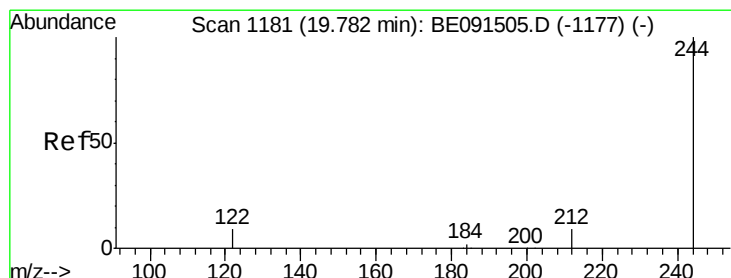
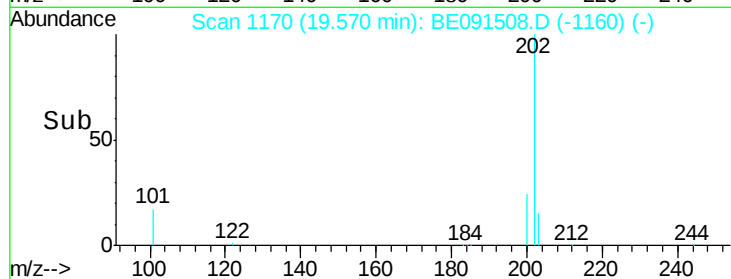
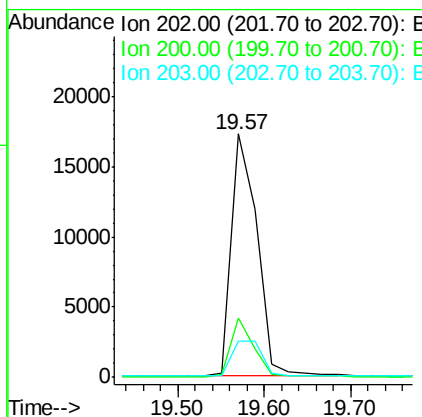
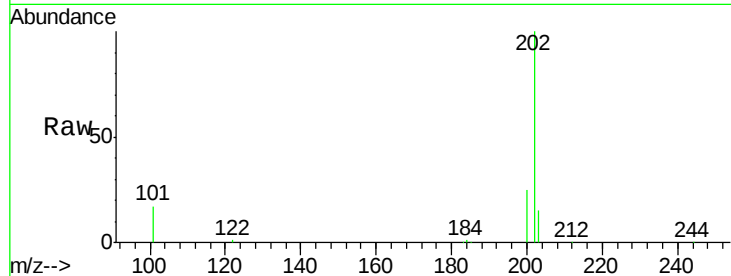
#23
 Pyrene
 Concen: 0.47 ng
 RT: 19.57 min Scan# 1170
 Delta R.T. -0.00 min
 Lab File: BE091508.D
 Acq: 22 Mar 2016 20:19

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC0.4EC

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	35674		
200	21.2	16.4	24.6	
203	17.6	14.6	21.8	

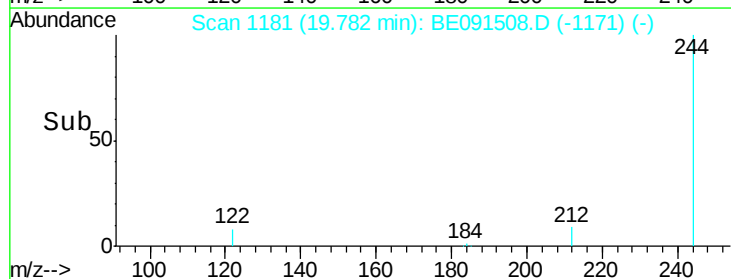
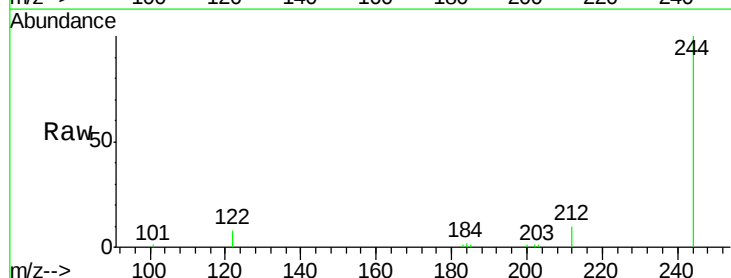
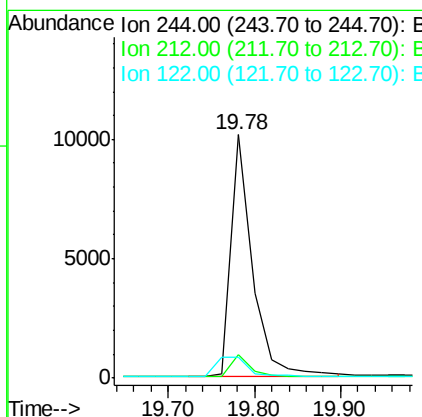
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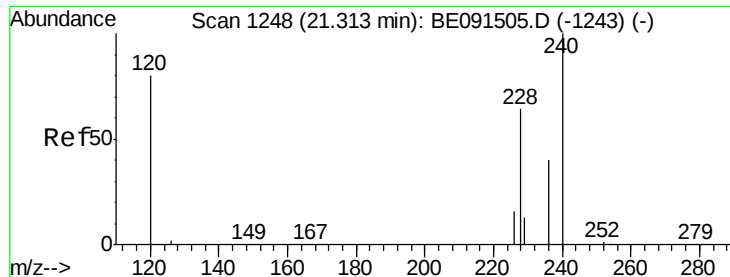
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#24
 Terphenyl-d14
 Concen: 0.48 ng
 RT: 19.78 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: BE091508.D
 Acq: 22 Mar 2016 20:19

Tgt Ion	Ratio	Resp	Lower	Upper
244	100	17615		
212	9.8	5.8	8.8#	
122	8.4	1.8	2.8#	





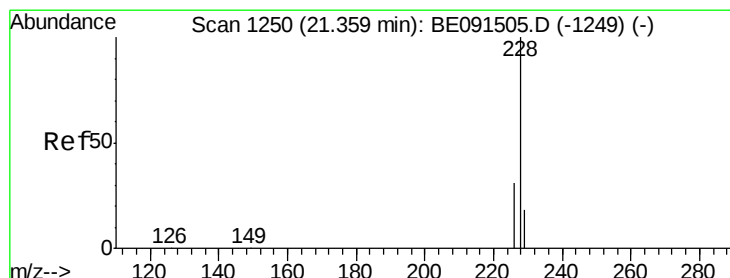
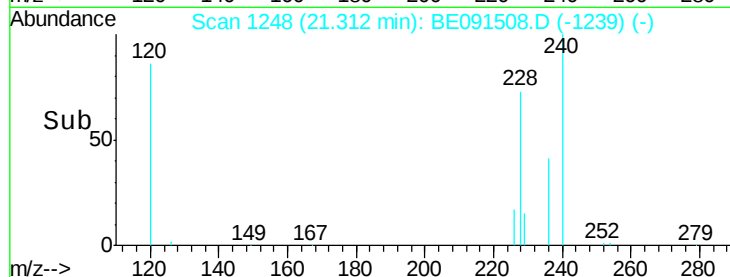
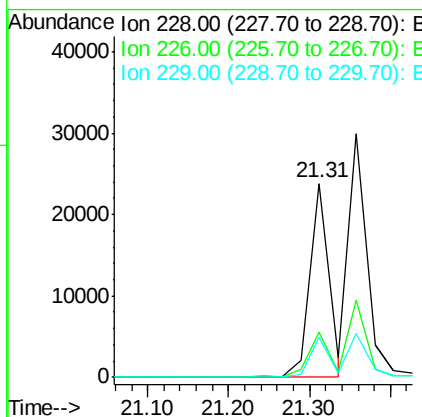
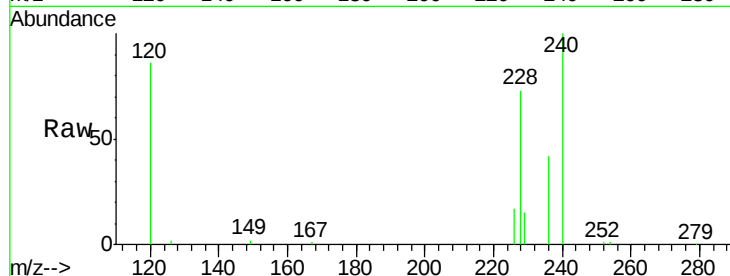
#25
Benzo(a)anthracene
Concen: 0.46 ng
RT: 21.31 min Scan# 1248
Delta R.T. -0.00 min
Lab File: BE091508.D
Acq: 22 Mar 2016 20:19

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion	Ratio	Lower	Upper
228	100		
226	23.4	24.0	36.0#
229	21.0	13.8	20.6#

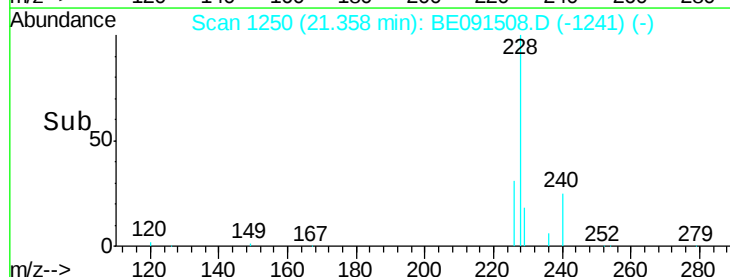
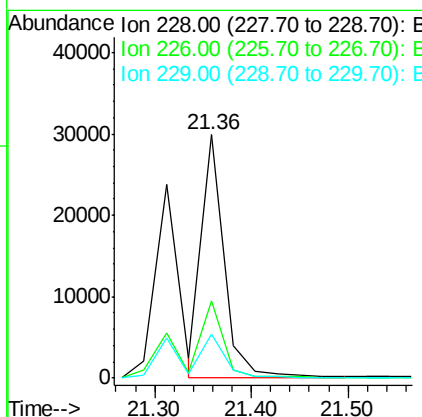
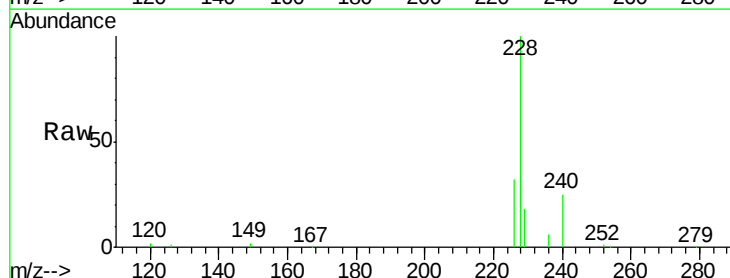
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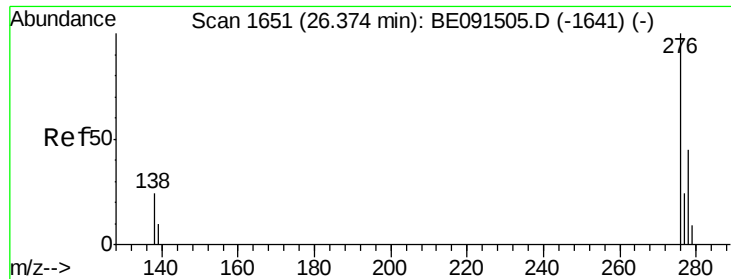
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#26
Chrysene
Concen: 0.64 ng m
RT: 21.36 min Scan# 1250
Delta R.T. -0.00 min
Lab File: BE091508.D
Acq: 22 Mar 2016 20:19

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.6	18.9	28.3#
229	18.1	19.1	28.7#





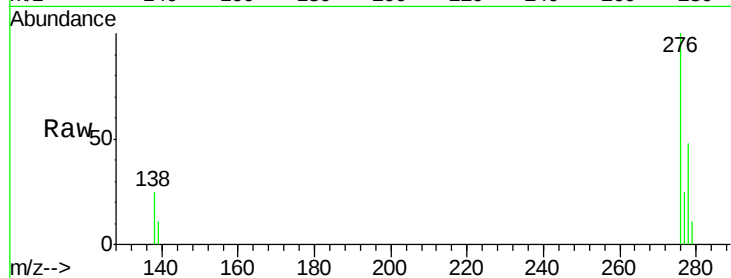
#27
Indeno(1,2,3-cd)pyrene
Concen: 0.43 ng
RT: 26.38 min Scan# 1651
Delta R.T. 0.00 min
Lab File: BE091508.D
Acq: 22 Mar 2016 20:19

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4EC

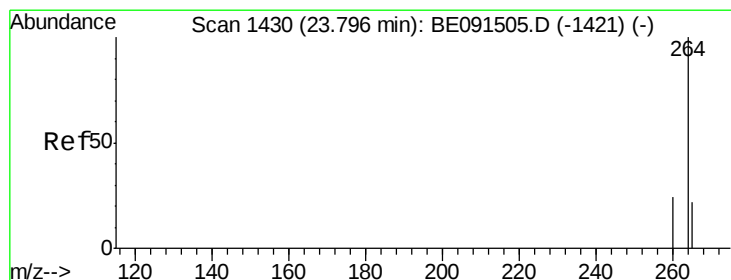
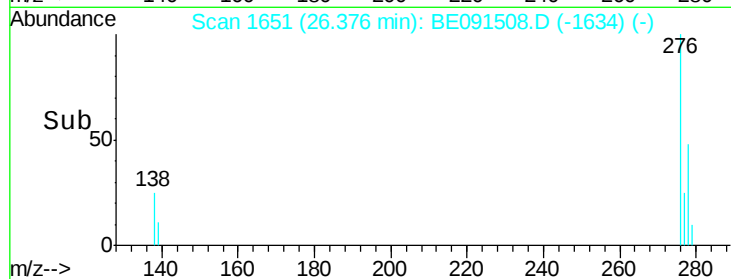
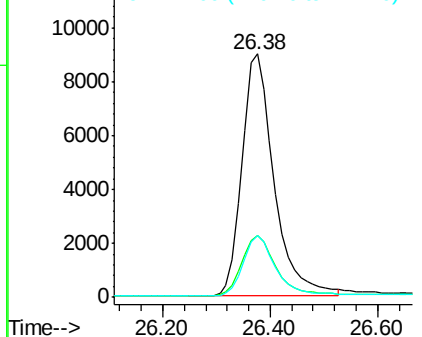
Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.0	20.2	30.4
277	24.7	19.8	29.8

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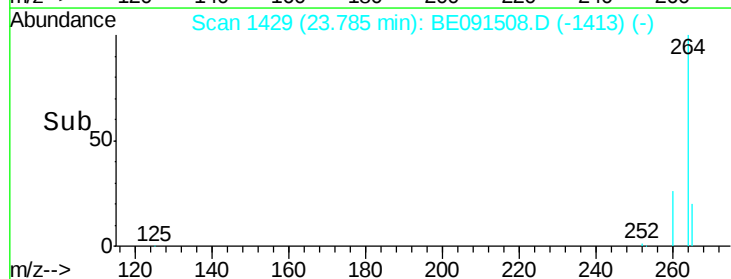
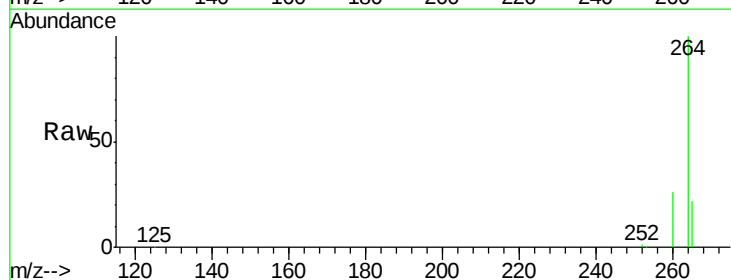
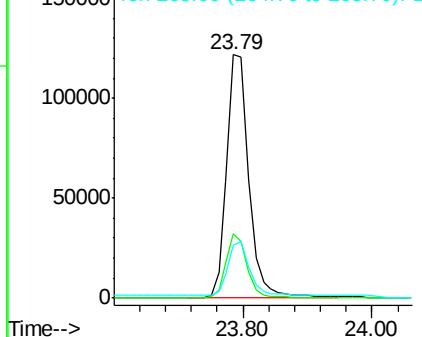
Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

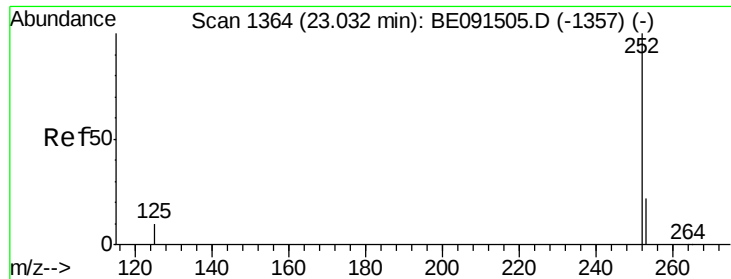


#28
Perylene-d12
Concen: 5.00 ng
RT: 23.79 min Scan# 1429
Delta R.T. -0.01 min
Lab File: BE091508.D
Acq: 22 Mar 2016 20:19

Tgt Ion	Ratio	Lower	Upper
264	100		
260	26.2	20.1	30.1
265	21.5	18.3	27.5

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





#29

Benzo(b)fluoranthene

Concen: 0.42 ng

RT: 23.03 min Scan# 1364

Delta R.T. 0.00 min

Lab File: BE091508.D

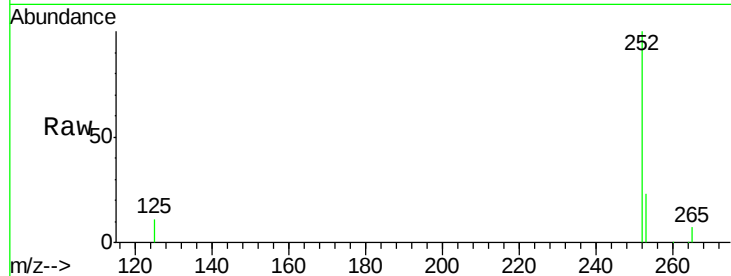
Acq: 22 Mar 2016 20:19

Instrument :

BNA_E

ClientSampleId :

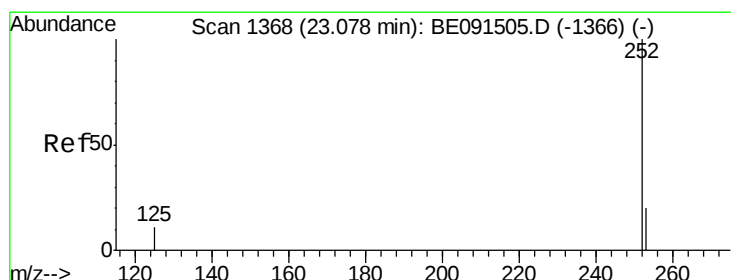
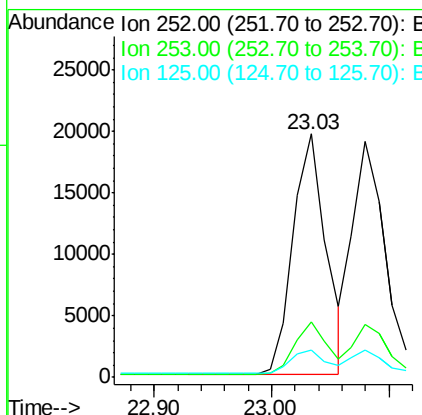
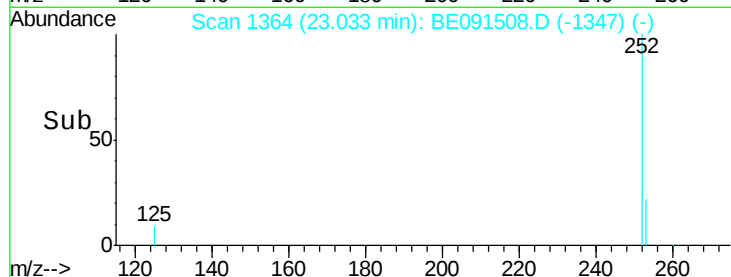
SSTDCCC0.4EC



Tgt Ion:	252	Resp:	38452
Ion Ratio	Lower	Upper	
252	100		
253	23.0	18.7	28.1
125	11.0	9.8	14.6

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#30

Benzo(k)fluoranthene

Concen: 0.40 ng

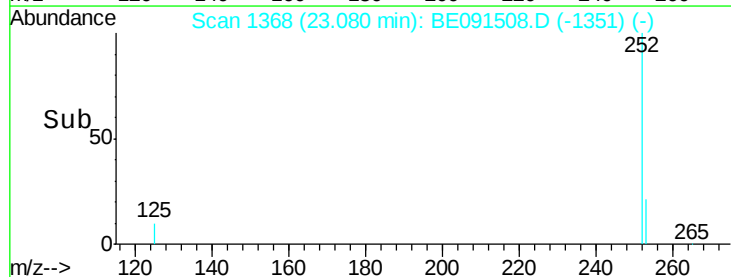
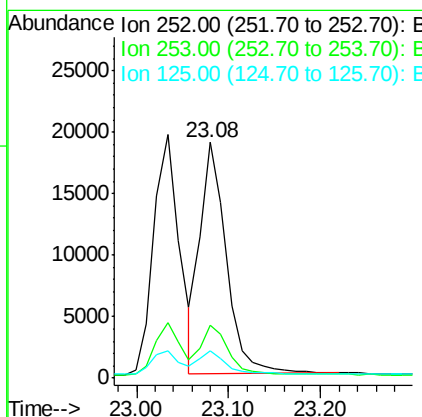
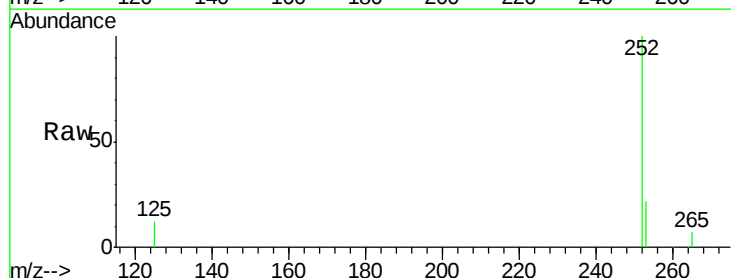
RT: 23.08 min Scan# 1368

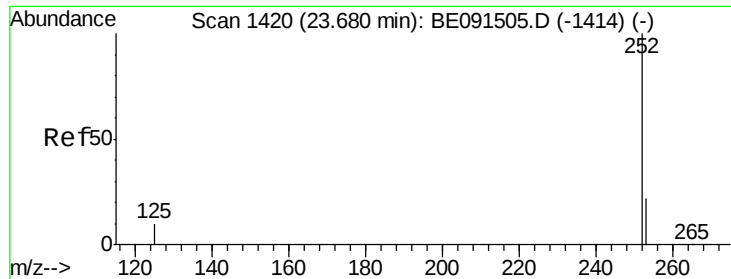
Delta R.T. 0.00 min

Lab File: BE091508.D

Acq: 22 Mar 2016 20:19

Tgt Ion:	252	Resp:	37355
Ion Ratio	Lower	Upper	
252	100		
253	22.5	20.2	30.4
125	11.5	9.4	14.2





#31

Benzo(a)pyrene

Concen: 0.36 ng

RT: 23.67 min Scan# 1419

Delta R.T. -0.01 min

Lab File: BE091508.D

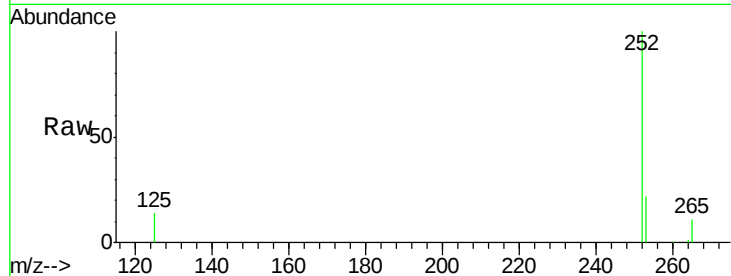
Acq: 22 Mar 2016 20:19

Instrument :

BNA_E

ClientSampleId :

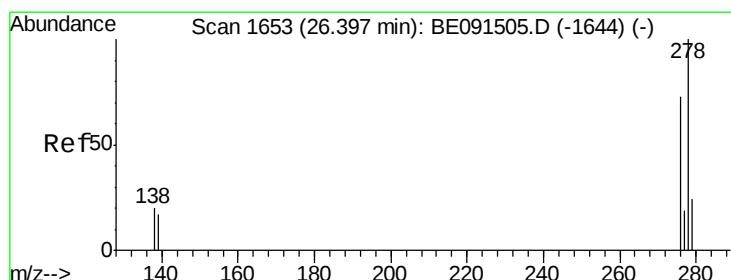
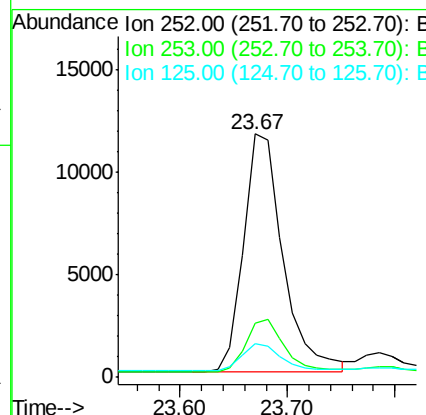
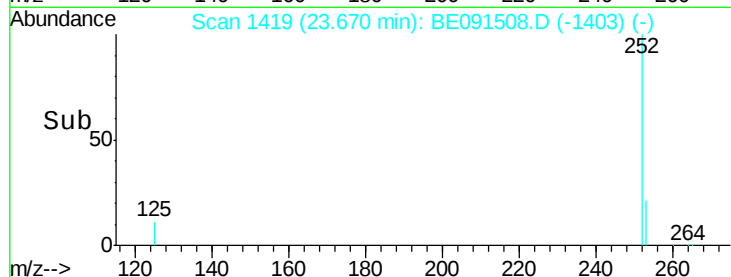
SSTDCCC0.4EC



Tgt Ion:	252	Resp:	29608
Ion Ratio	Lower	Upper	
252	100		
253	22.3	19.4	29.0
125	13.8	11.4	17.2

Manual Integrations
APPROVED

Sohil
3/23/2016 4:29:07 PM



#32

Dibenzo(a,h)anthracene

Concen: 0.39 ng

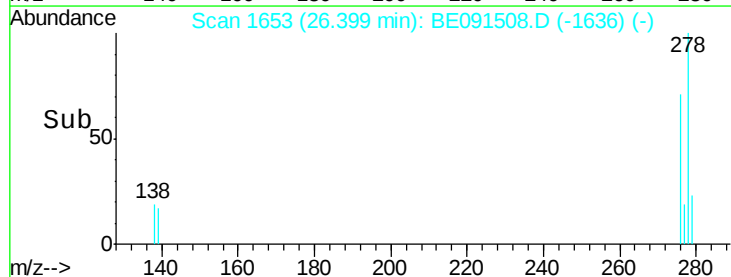
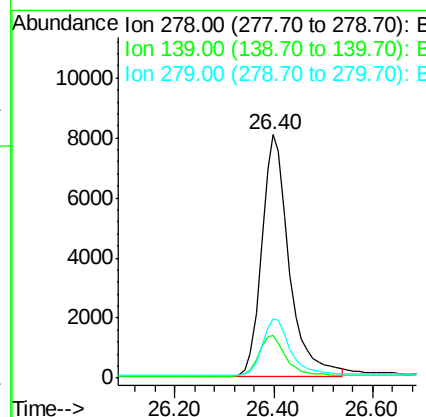
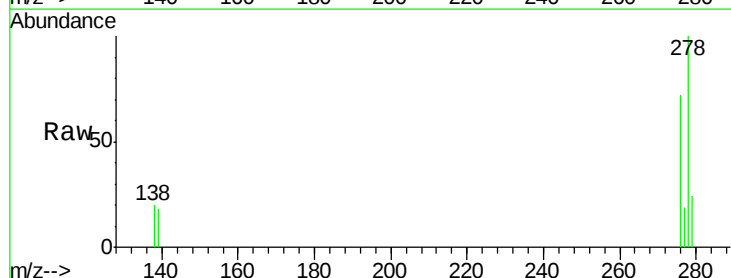
RT: 26.40 min Scan# 1653

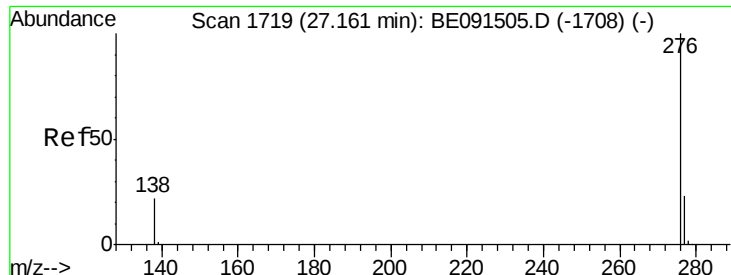
Delta R.T. 0.00 min

Lab File: BE091508.D

Acq: 22 Mar 2016 20:19

Tgt Ion:	278	Resp:	31252
Ion Ratio	Lower	Upper	
278	100		
139	17.5	14.2	21.4
279	24.2	19.6	29.4





#33

Benzo(g,h,i)perylene

Concen: 0.41 ng

RT: 27.16 min Scan# 1719

Delta R.T. 0.00 min

Lab File: BE091508.D

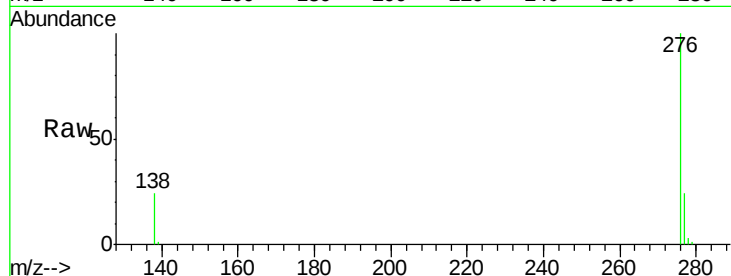
Acq: 22 Mar 2016 20:19

Instrument :

BNA_E

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion: 276 Resp: 33757

Ion Ratio Lower Upper

276 100

277 24.3 19.4 29.2

138 23.5 18.2 27.4

Manual Integrations
APPROVED

Sohil
3/23/2016 4:29:07 PM

