

Data Path : Z:\HPCHEM1\BNA E\DATA\BE080416\
 Data File : BE092201.D
 Acq On : 5 Aug 2016 3:06
 Operator : UM/SJ
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC0.4

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Quant Time: Aug 05 04:07:30 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-PAH-BE080216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 02 16:59:37 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.17	152	9765	5.00	ng	0.00
6) Naphthalene-d8	10.98	136	47611	5.00	ng	-0.01
10) Acenaphthene-d10	14.83	164	27430	5.00	ng	-0.02
16) Phenanthrene-d10	17.56	188	63233	5.00	ng	-0.02
22) Chrysene-d12	21.75	240	69149	5.00	ng	0.00
28) Perylene-d12	24.14	264	66321	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.70	112	864	0.34	ng	0.00
5) Phenol-d6	7.35	99	1163	0.35	ng	0.00
7) Nitrobenzene-d5	9.35	82	1220	0.32	ng	0.00
11) 2,4,6-Tribromophenol	16.33	330	299	0.34	ng	0.00
12) 2-Fluorobiphenyl	13.46	172	3376	0.39	ng	0.00
24) Terphenyl-d14	20.21	244	4648	0.47	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.43	88	544	0.41	ng	97
3) n-Nitrosodimethylamine	3.80	42	586	0.40	ng	100
8) Naphthalene	11.03	128	4258	0.41	ng	99
9) 2-Methylnaphthalene	12.65	142	2695	0.41	ng	94
13) Acenaphthylene	14.54	152	18754	0.39	ng	98
14) Acenaphthene	14.90	154	3005	0.39	ng	# 91
15) Fluorene	15.88	166	3740	0.38	ng	100
17) Hexachlorobenzene	16.89	284	1172m	0.38	ng	
18) Pentachlorophenol	17.24	266	272	0.42	ng	94
19) Phenanthrene	17.60	178	7129	0.38	ng	99
20) Anthracene	17.70	178	5909	0.35	ng	100
21) Fluoranthene	19.63	202	27090	0.35	ng	97
23) Pyrene	19.98	202	29217	0.40	ng	99
25) Benzo(a)anthracene	21.72	228	29394	0.39	ng	93
26) Chrysene	21.77	228	29973	0.39	ng	# 85
27) Indeno(1,2,3-cd)pyrene	26.65	276	30181	0.37	ng	99
29) Benzo(b)fluoranthene	23.40	252	6729	0.37	ng	97
30) Benzo(k)fluoranthene	23.45	252	7161	0.40	ng	97
31) Benzo(a)pyrene	24.02	252	6537	0.39	ng	98
32) Dibenzo(a,h)anthracene	26.67	278	6006	0.38	ng	98
33) Benzo(g,h,i)perylene	27.42	276	26011	0.38	ng	97

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

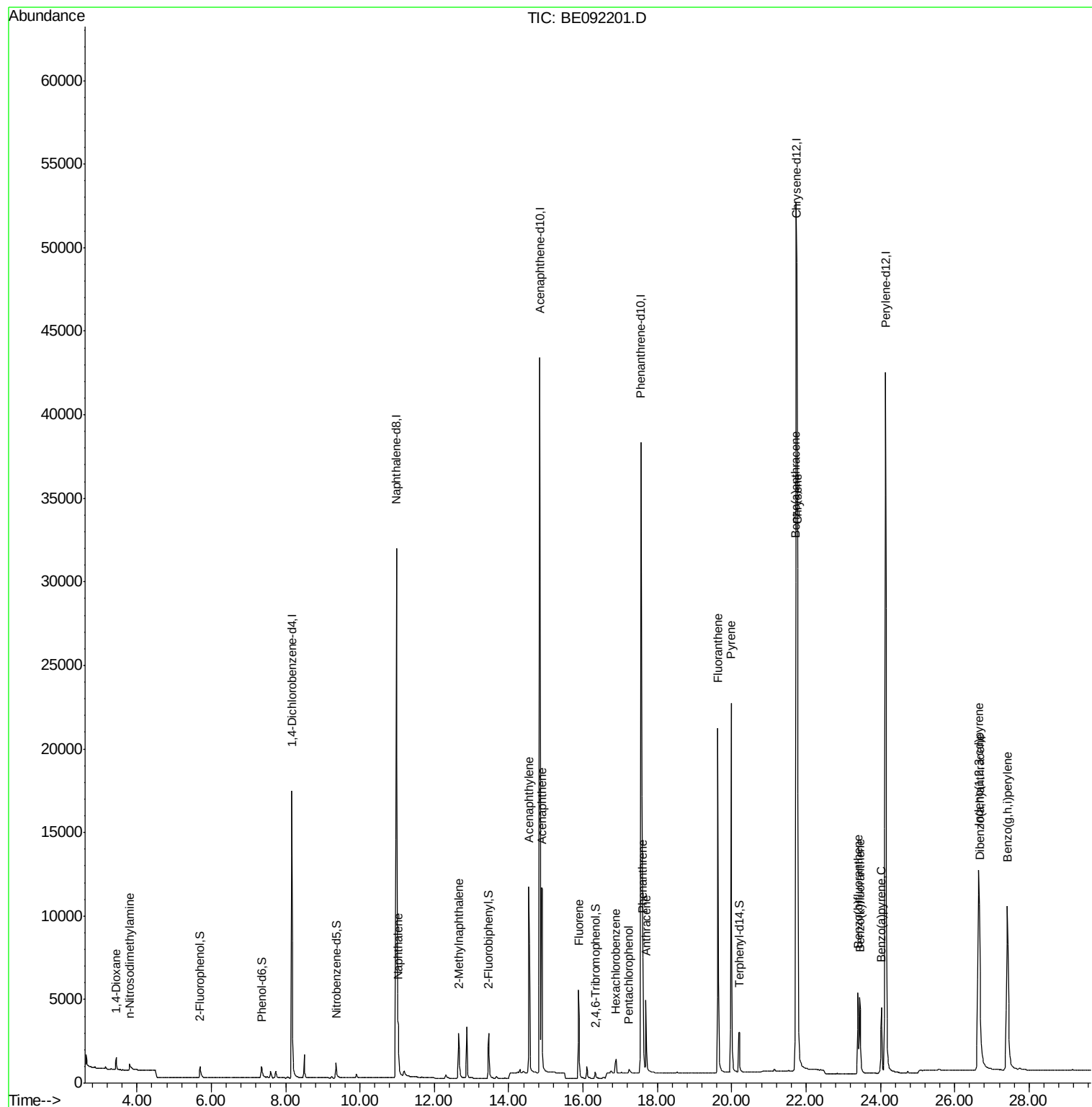
Data Path : Z:\HPCHEM1\BNA E\DATA\BE080416\
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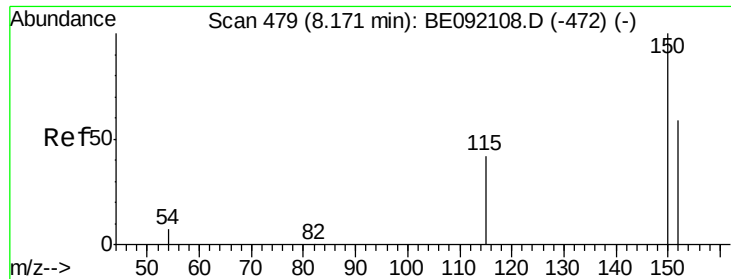
Instrument :
BNA_E
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 02 16:59:37 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.17 min Scan# 479

Delta R.T. -0.00 min

Lab File: BE092201.D

Acq: 5 Aug 2016 3:06

Instrument :

BNA_E

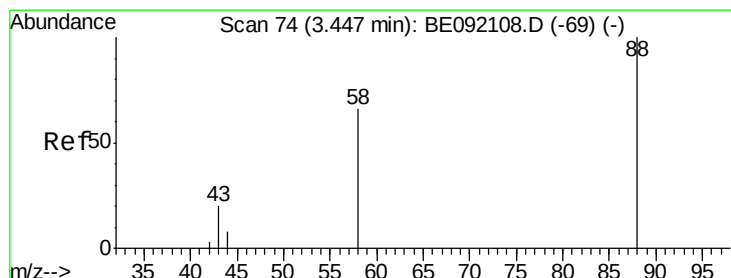
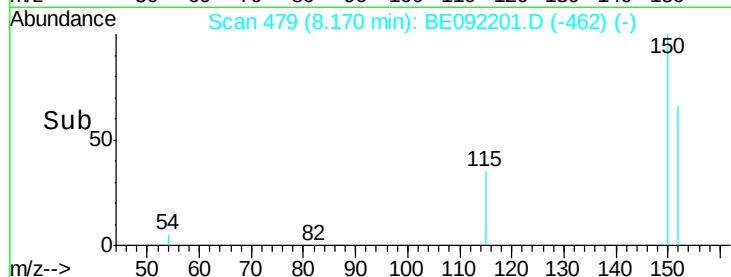
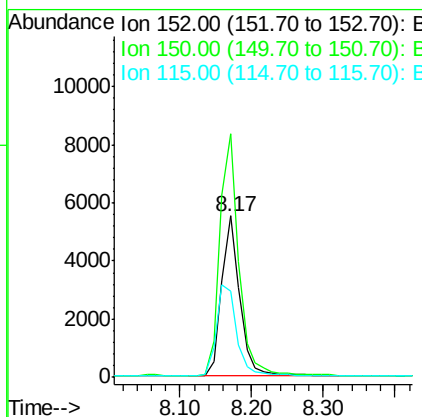
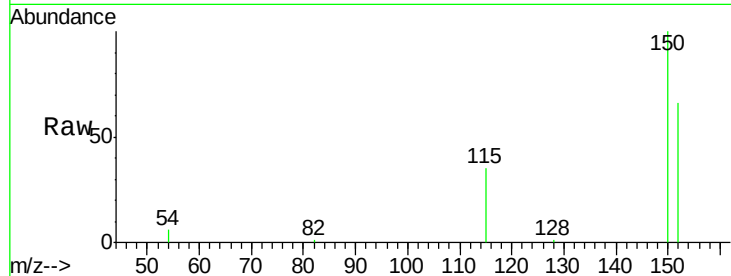
ClientSampleId :

SSTDCCC0.4

Tot Ion:	152	Resp:	9765
Ion	Ratio	Lower	Upper
152	100		
150	150.8	106.0	159.0
115	53.2	36.9	55.3

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#2

1,4-Dioxane

Concen: 0.41 ng

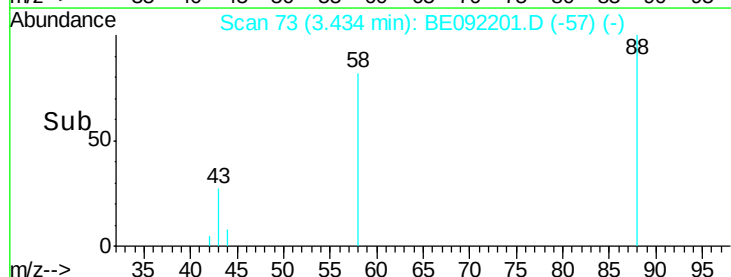
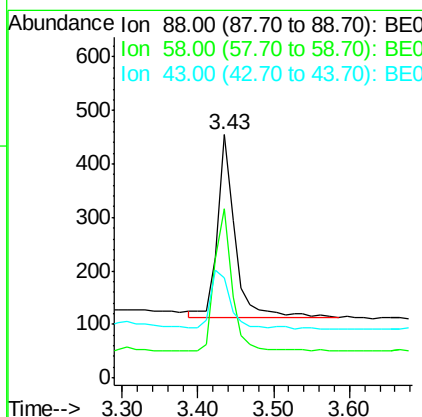
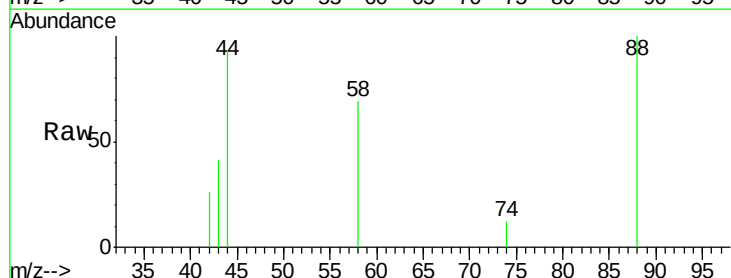
RT: 3.43 min Scan# 73

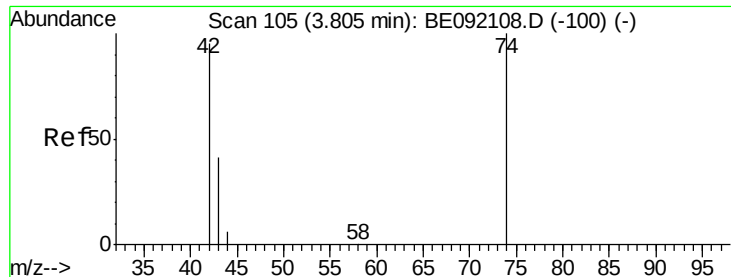
Delta R.T. -0.01 min

Lab File: BE092201.D

Acq: 5 Aug 2016 3:06

Tgt Ion:	88	Resp:	544
Ion	Ratio	Lower	Upper
88	100		
58	78.9	62.1	93.1
43	37.3	27.2	40.8





#3

n-Nitrosodimethylamine

Concen: 0.40 ng

RT: 3.80 min Scan# 105

Delta R.T. -0.00 min

Lab File: BE092201.D

Acq: 5 Aug 2016 3:06

Instrument :

BNA_E

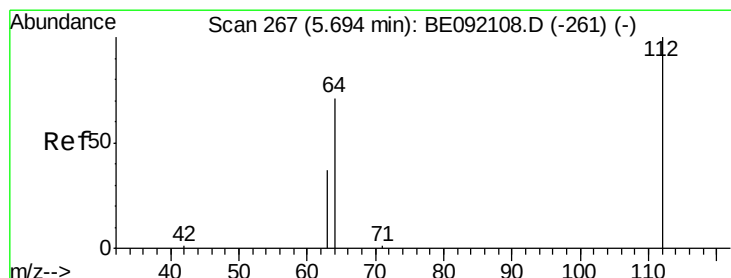
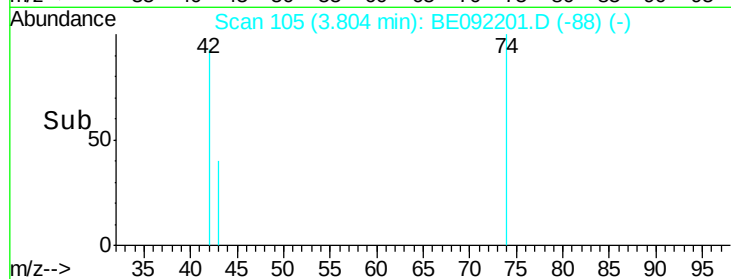
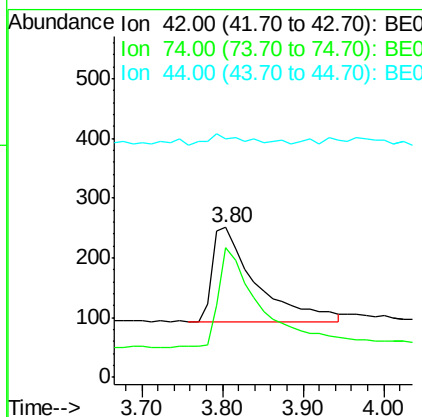
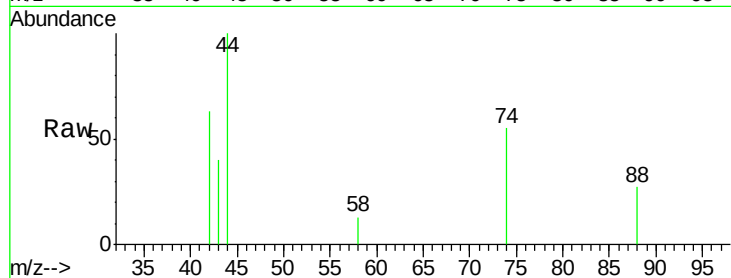
ClientSampled :

SSTDCCC0.4

Tot Ion:	42	Resp:	586
Ion	Ratio	Lower	Upper
42	100		
74	103.9	82.8	124.2
44	10.9	9.0	13.4

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#4

2-Fluorophenol

Concen: 0.34 ng

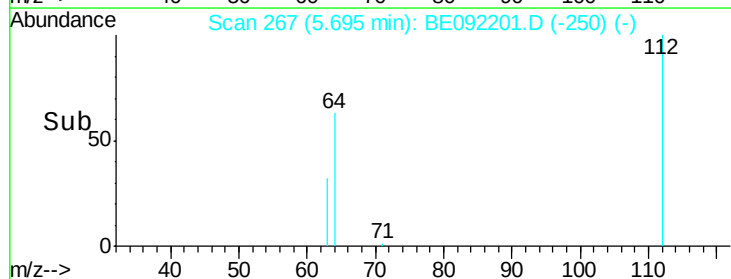
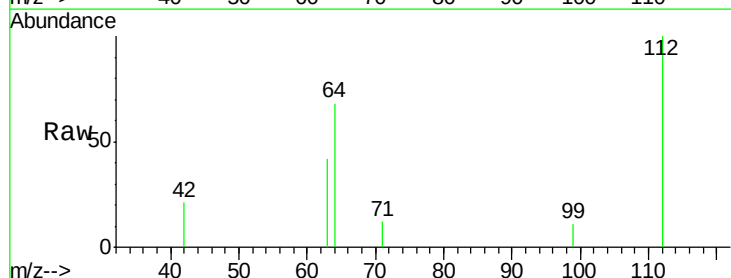
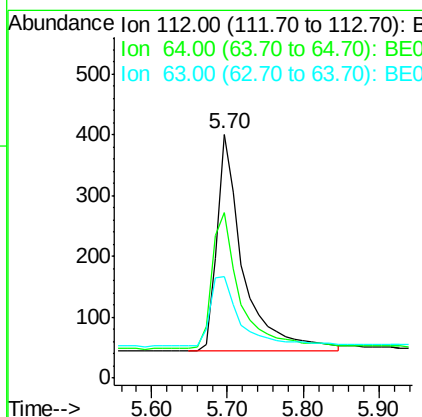
RT: 5.70 min Scan# 267

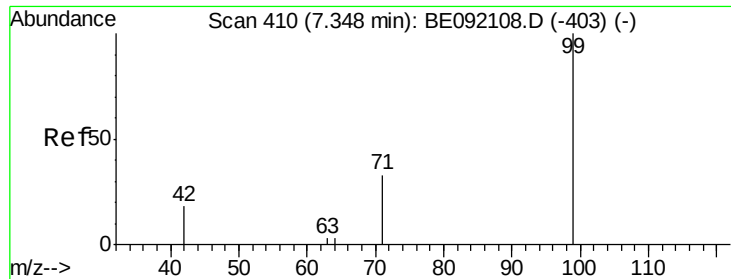
Delta R.T. 0.00 min

Lab File: BE092201.D

Acq: 5 Aug 2016 3:06

Tgt Ion:	112	Resp:	864
Ion	Ratio	Lower	Upper
112	100		
64	66.6	55.9	83.9
63	36.6	31.1	46.7





#5

Phenol-d6

Concen: 0.35 ng

RT: 7.35 min Scan# 410

Delta R.T. 0.00 min

Lab File: BE092201.D

Acq: 5 Aug 2016 3:06

Instrument :

BNA_E

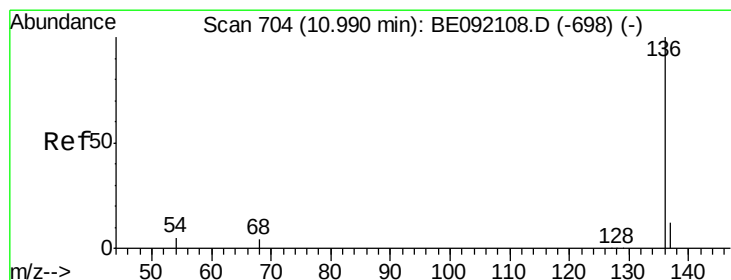
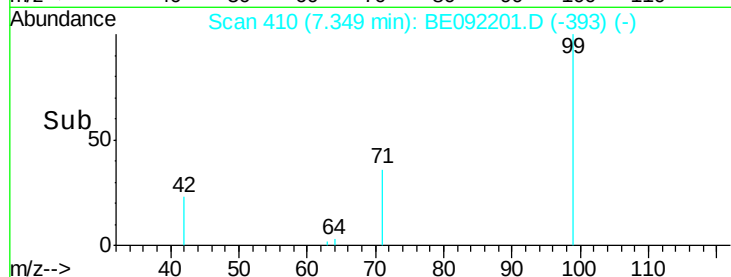
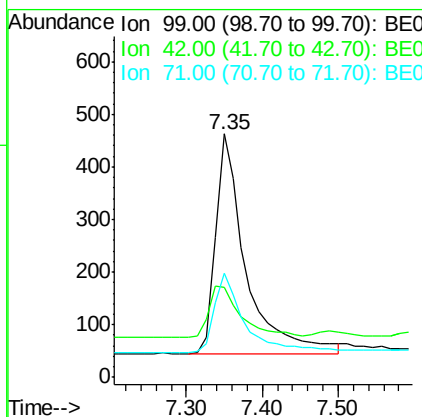
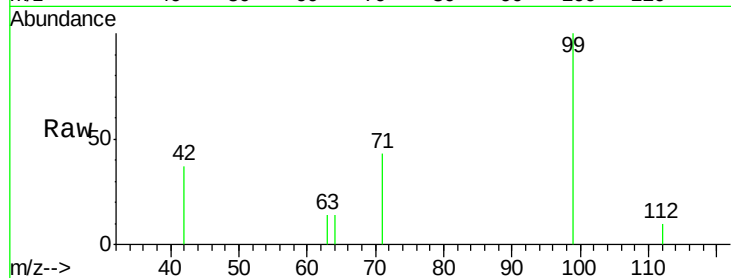
ClientSampleId :

SSTDCCC0.4

Tot Ion:	99	Resp:	1163
Ion	Ratio	Lower	Upper
99	100		
42	25.5	22.4	33.6
71	36.7	28.9	43.3

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#6

Naphthalene-d8

Concen: 5.00 ng

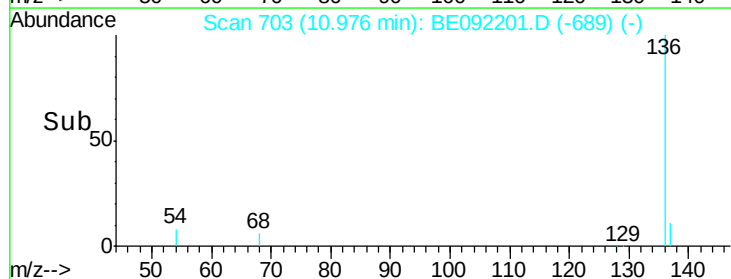
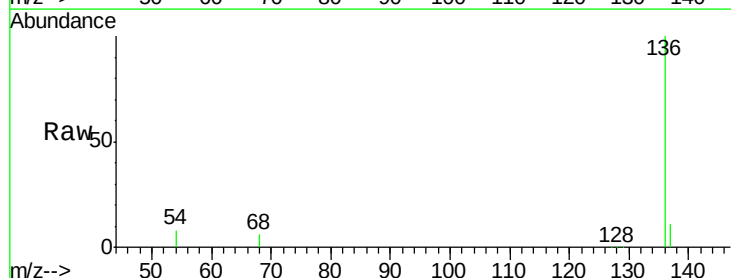
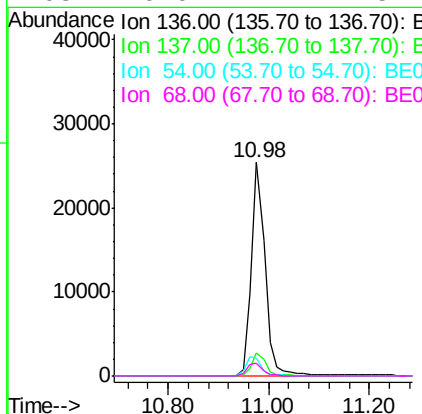
RT: 10.98 min Scan# 703

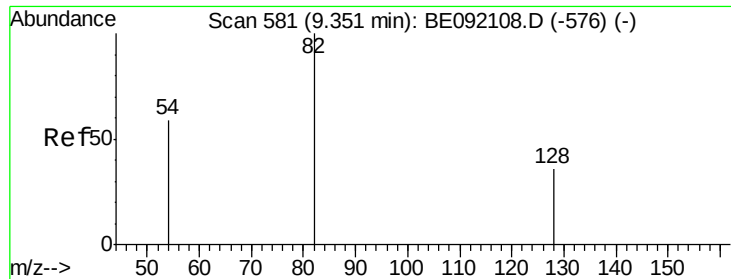
Delta R.T. -0.01 min

Lab File: BE092201.D

Acq: 5 Aug 2016 3:06

Tgt Ion:	136	Resp:	47611
Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.1	13.7
54	8.4	2.7	4.1#
68	6.0	2.2	3.4#





#7

Nitrobenzene-d5

Concen: 0.32 ng

RT: 9.35 min Scan# 581

Delta R.T. -0.00 min

Lab File: BE092201.D

Acq: 5 Aug 2016 3:06

Instrument :

BNA_E

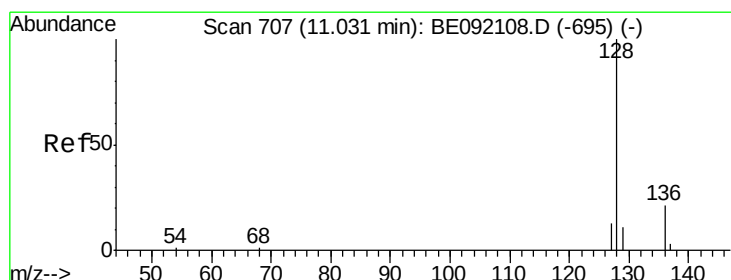
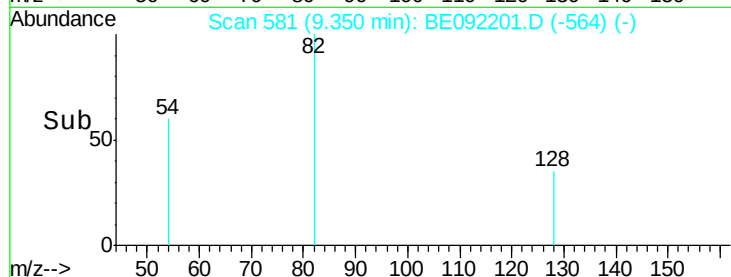
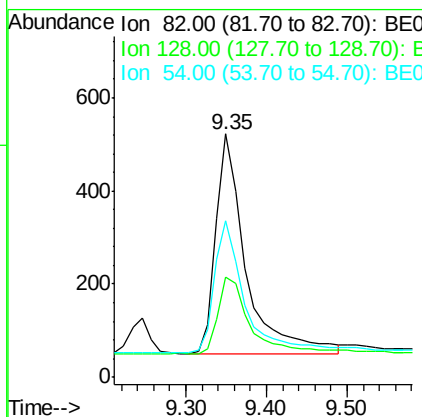
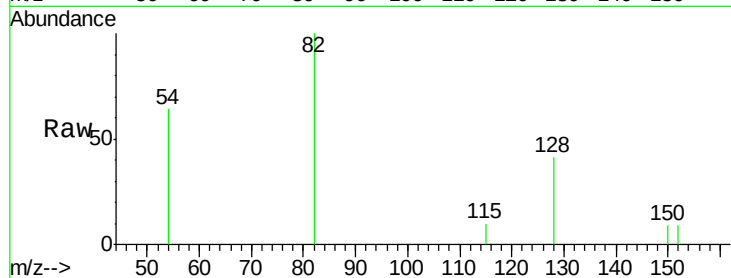
ClientSampleId :

SSTDCCC0.4

Tot Ion:	82	Resp:	1220
Ion	Ratio	Lower	Upper
82	100		
128	41.3	33.0	49.4
54	64.2	42.6	63.8#

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#8

Naphthalene

Concen: 0.41 ng

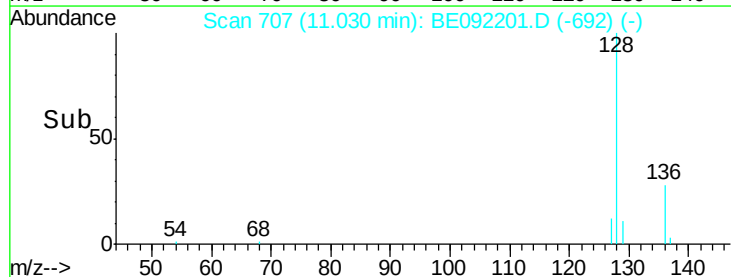
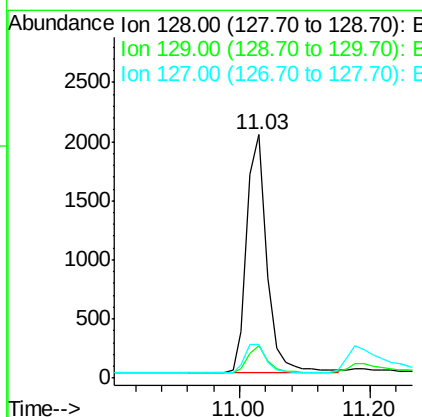
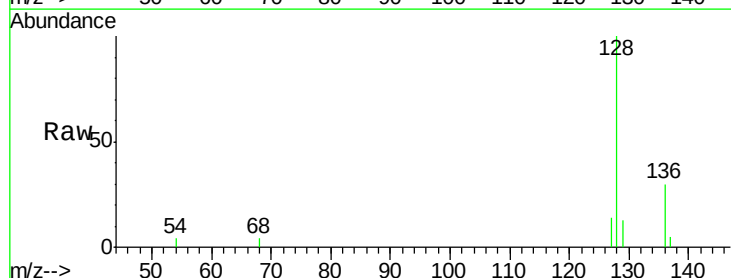
RT: 11.03 min Scan# 707

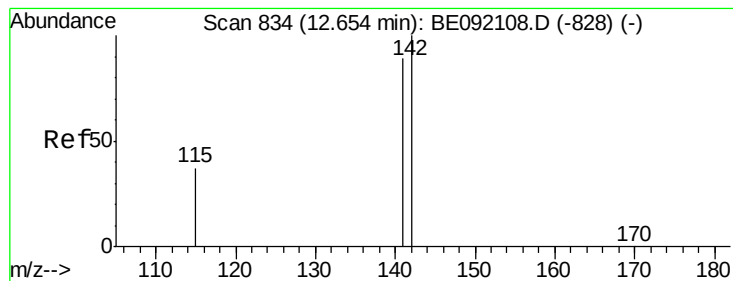
Delta R.T. -0.00 min

Lab File: BE092201.D

Acq: 5 Aug 2016 3:06

Tgt Ion:	128	Resp:	4258
Ion	Ratio	Lower	Upper
128	100		
129	13.5	11.1	16.7
127	13.6	11.3	16.9





#9

2-Methylnaphthalene

Concen: 0.41 ng

RT: 12.65 min Scan# 834

Delta R.T. 0.00 min

Lab File: BE092201.D

Acq: 5 Aug 2016 3:06

Instrument :

BNA_E

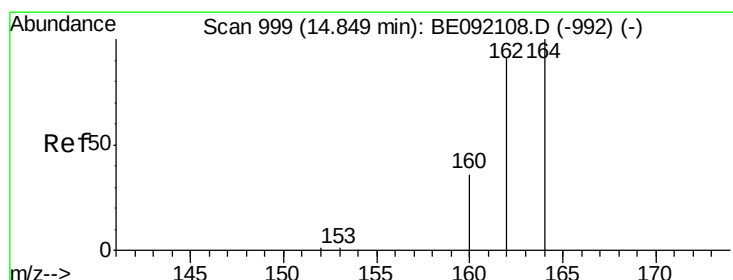
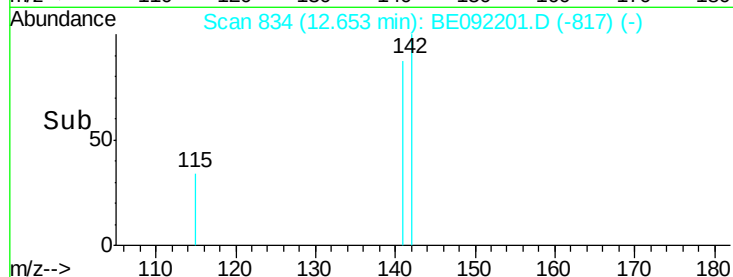
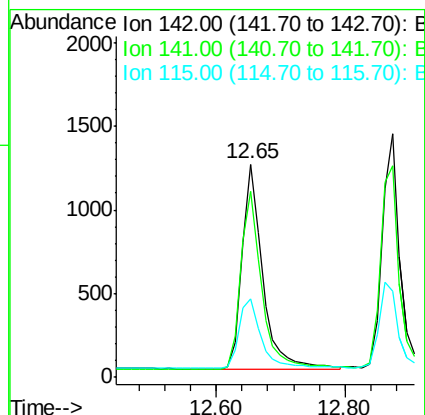
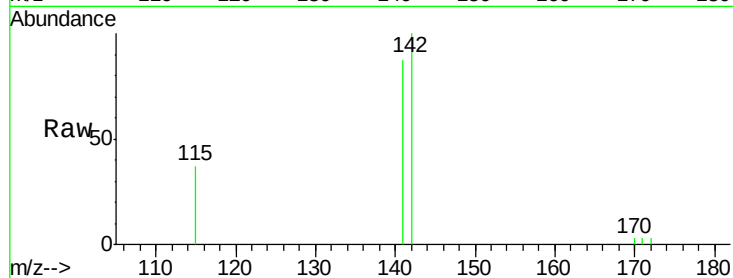
ClientSampleId :

SSTDCCC0.4

Tot Ion:	142	Resp:	2695
Ion Ratio	Lower	Upper	
142	100		
141	86.9	65.1	97.7
115	36.8	27.0	40.4

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#10

Acenaphthene-d10

Concen: 5.00 ng

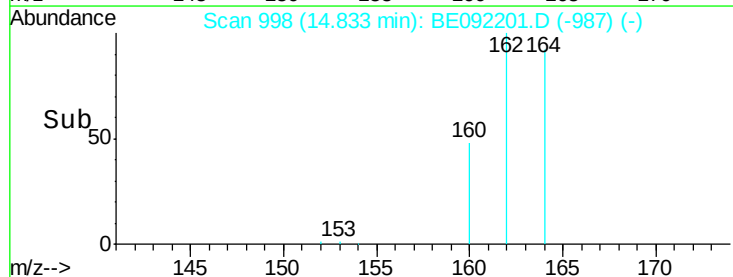
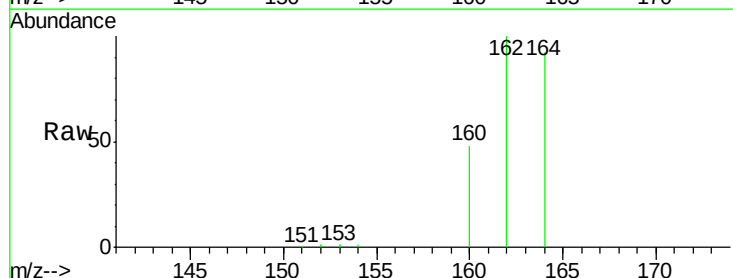
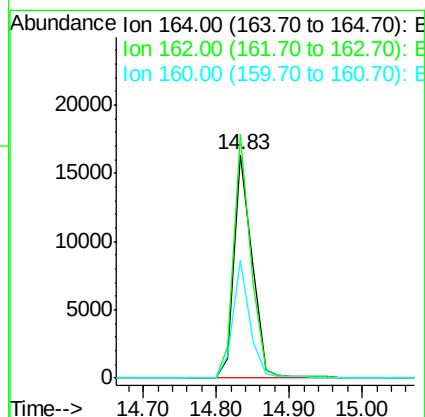
RT: 14.83 min Scan# 998

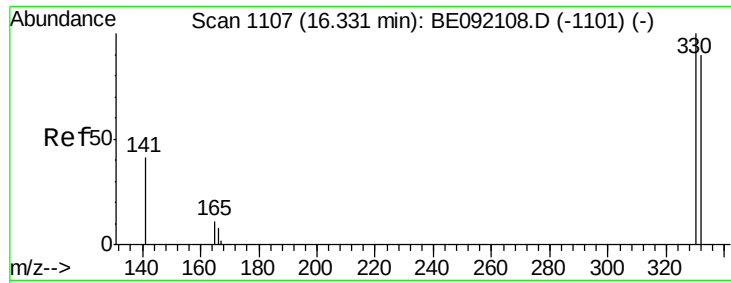
Delta R.T. -0.02 min

Lab File: BE092201.D

Acq: 5 Aug 2016 3:06

Tgt Ion:	164	Resp:	27430
Ion Ratio	Lower	Upper	
164	100		
162	108.8	69.5	104.3#
160	52.7	27.6	41.4#





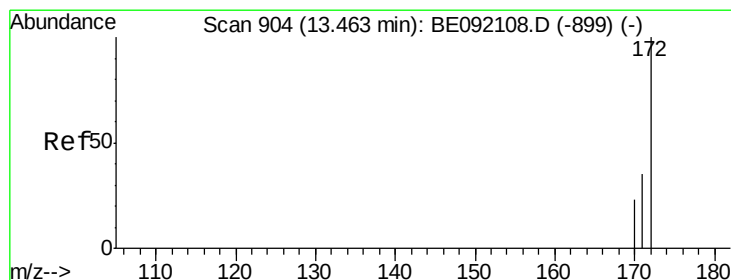
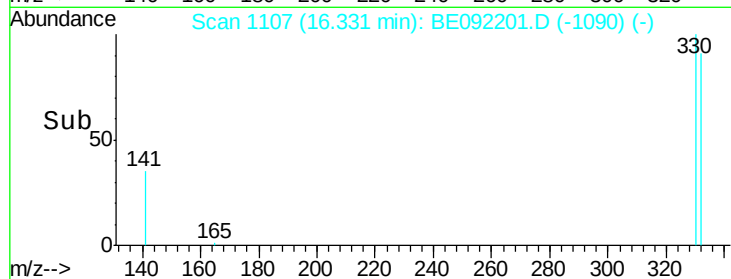
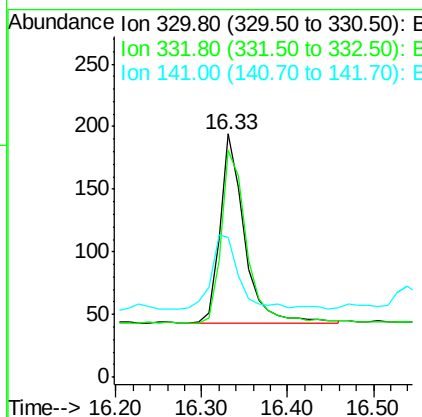
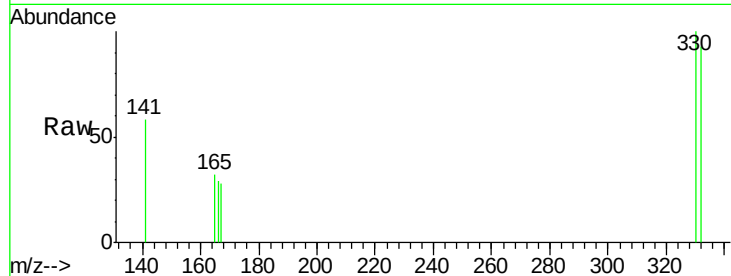
#11
 2,4,6-Tribromophenol
 Concen: 0.34 ng
 RT: 16.33 min Scan# 1107
 Delta R.T. 0.00 min
 Lab File: BE092201.D
 Acq: 5 Aug 2016 3:06

Instrument :
 BNA_E
 ClientSampleId :
 SSTDCCC0.4

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.7	74.2	111.4
141	47.5	139.8	209.8#

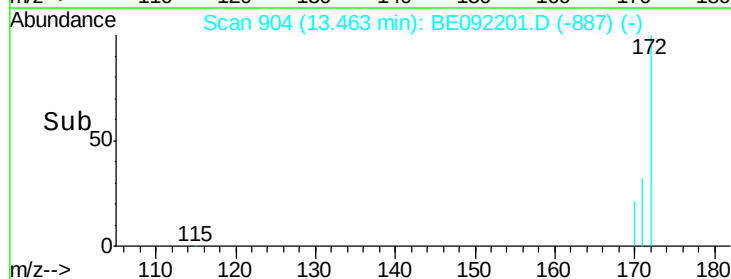
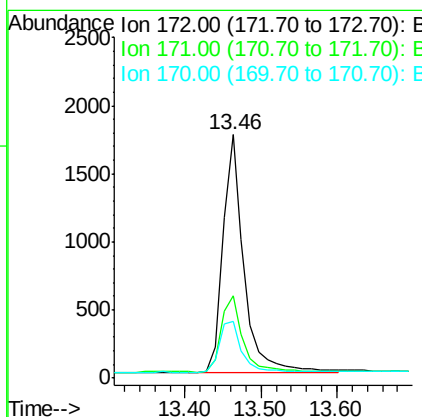
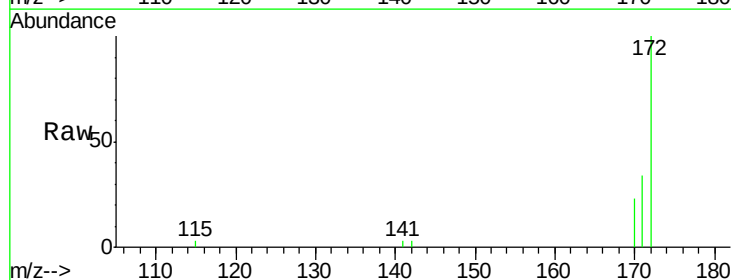
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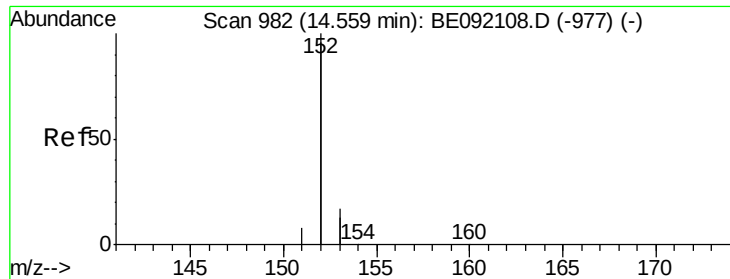
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#12
 2-Fluorobiphenyl
 Concen: 0.39 ng
 RT: 13.46 min Scan# 904
 Delta R.T. -0.00 min
 Lab File: BE092201.D
 Acq: 5 Aug 2016 3:06

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.1	30.3	45.5
170	23.3	21.6	32.4





#13

Acenaphthylene

Concen: 0.39 ng

RT: 14.54 min Scan# 981

Delta R.T. -0.02 min

Lab File: BE092201.D

Acq: 5 Aug 2016 3:06

Instrument :

BNA_E

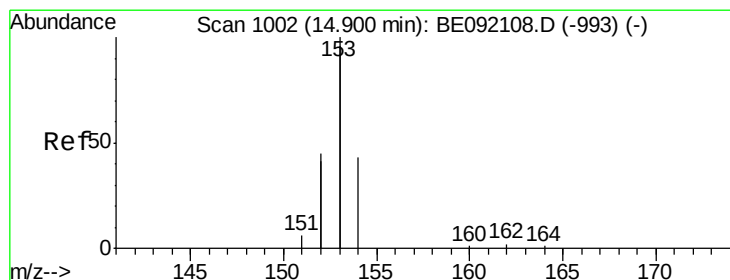
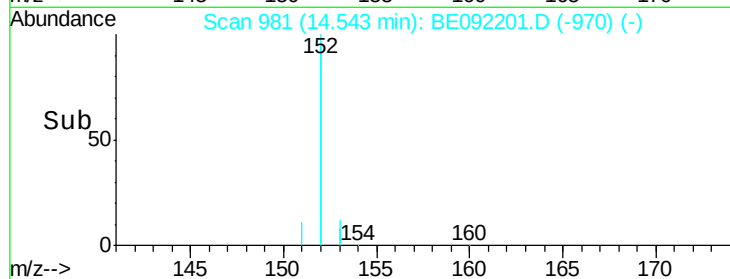
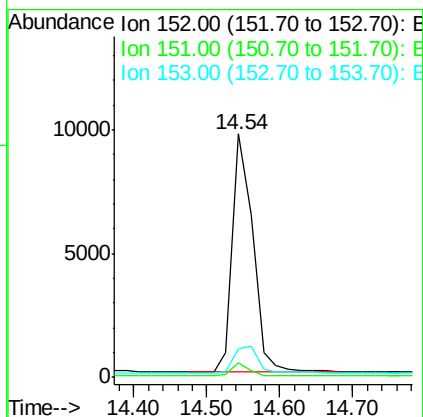
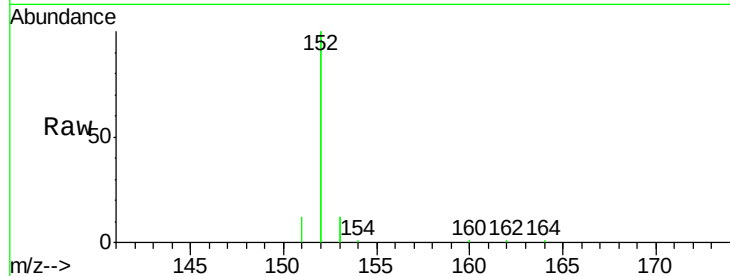
ClientSampleId :

SSTDCCC0.4

Tot Ion:	152	Resp:	18754
Ion Ratio	Lower	Upper	
152	100		
151	4.9	4.0	6.0
153	12.9	9.6	14.4

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#14

Acenaphthene

Concen: 0.39 ng

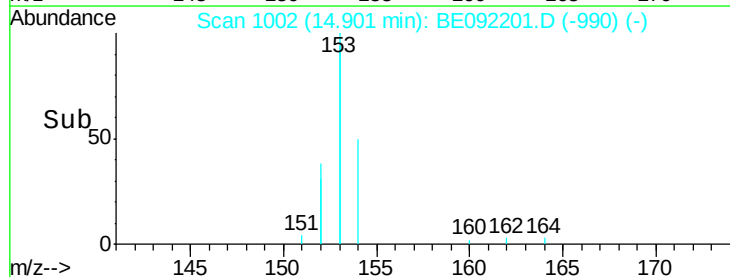
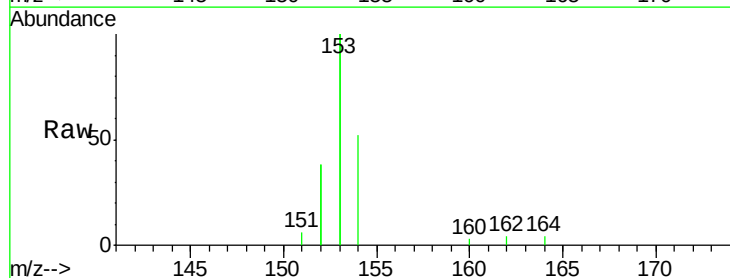
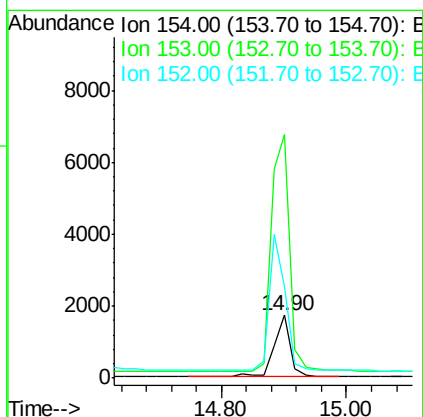
RT: 14.90 min Scan# 1002

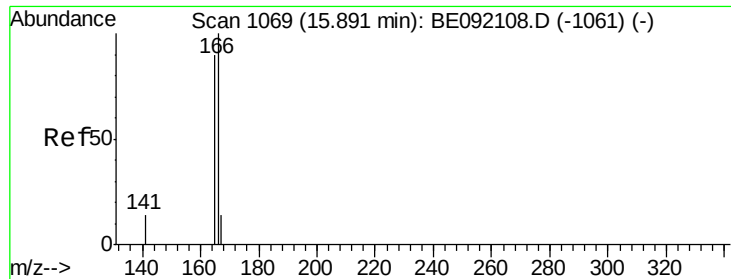
Delta R.T. 0.00 min

Lab File: BE092201.D

Acq: 5 Aug 2016 3:06

Tgt Ion:	154	Resp:	3005
Ion Ratio	Lower	Upper	
154	100		
153	454.2	345.1	517.7
152	228.9	0.0	0.0#





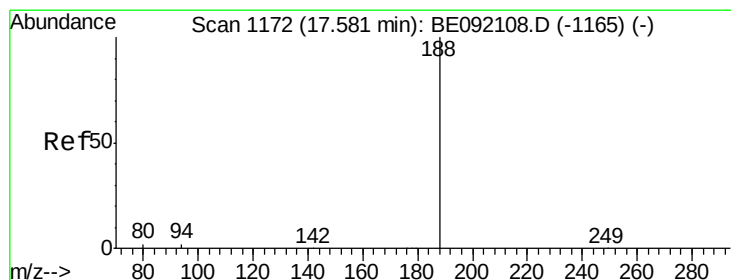
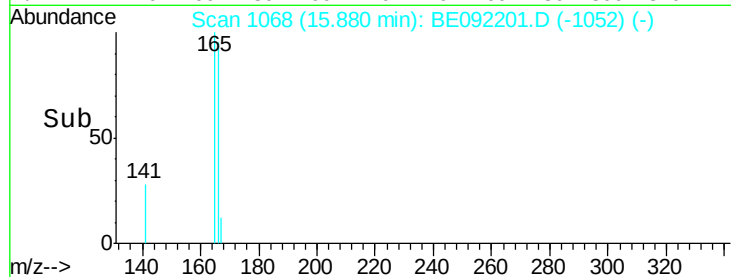
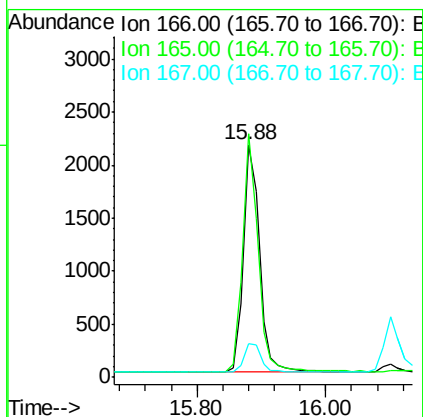
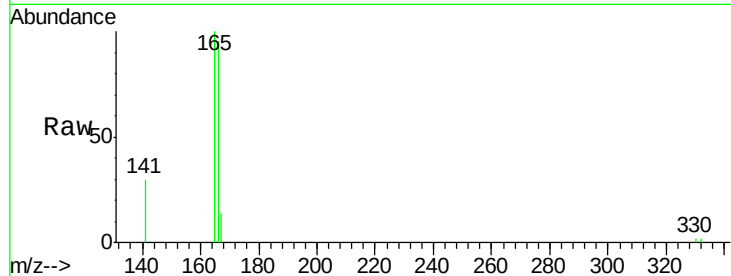
#15
Fluorene
Concen: 0.38 ng
RT: 15.88 min Scan# 1068
Delta R.T. -0.01 min
Lab File: BE092201.D
Acq: 5 Aug 2016 3:06

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4

Tot Ion	Ratio	Lower	Upper
166	100		
165	98.7	78.6	118.0
167	13.6	11.1	16.7

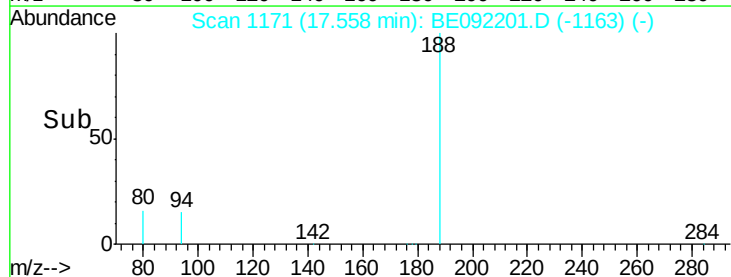
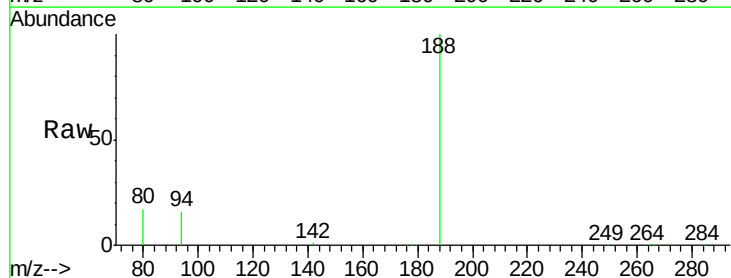
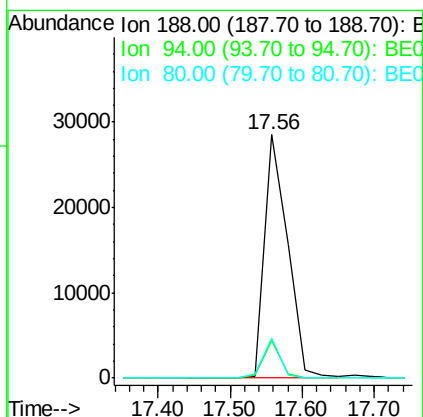
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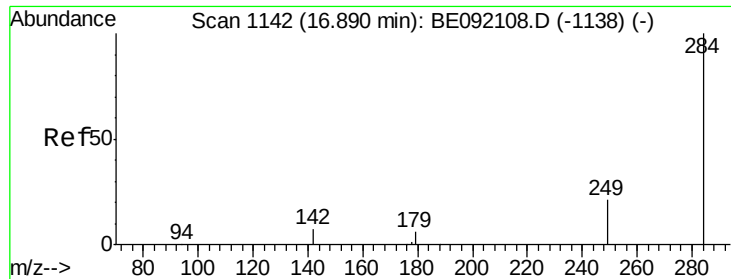
sohil
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#16
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.56 min Scan# 1171
Delta R.T. -0.02 min
Lab File: BE092201.D
Acq: 5 Aug 2016 3:06

Tgt Ion	Ratio	Lower	Upper
188	100		
94	15.5	3.9	5.9#
80	16.6	3.4	5.0#





#17

Hexachlorobenzene

Concen: 0.38 ng/ml

RT: 16.89 min Scan# 1142

Delta R.T. -0.00 min

Lab File: BE092201.D

Acq: 5 Aug 2016 3:06

Instrument :

BNA_E

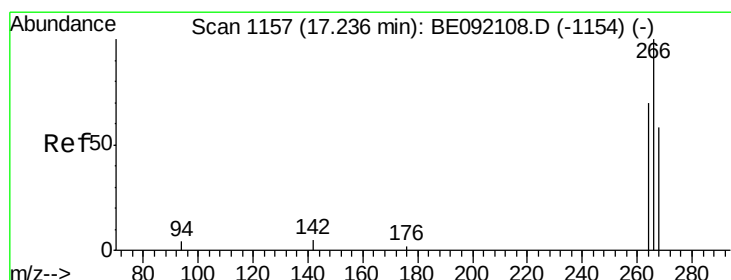
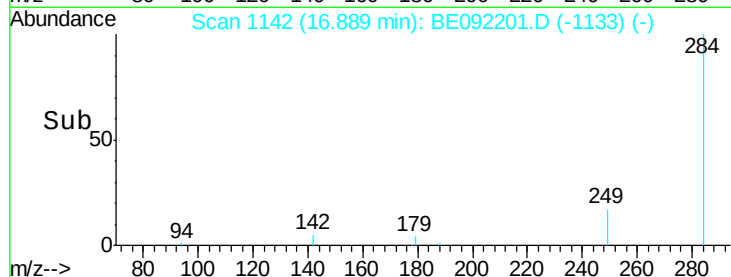
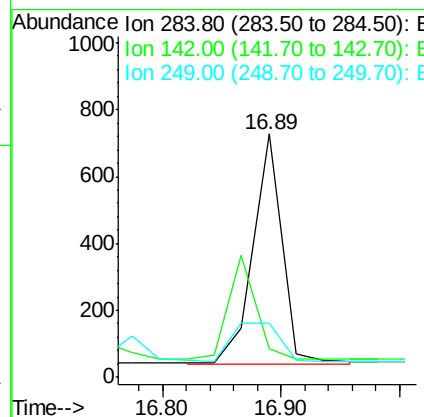
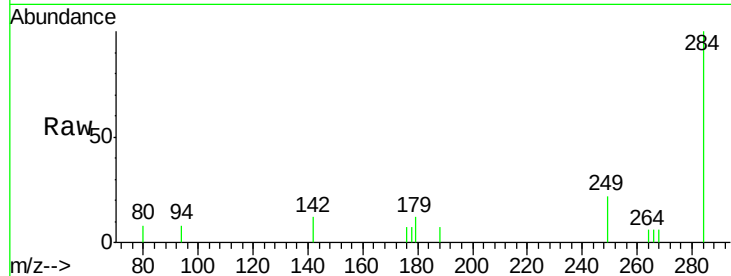
ClientSampleId :

SSTDCCC0.4

Tot Ion:	284	Resp:	1172
Ion Ratio	Lower	Upper	
284	100		
142	0.0	33.3	49.9#
249	0.0	25.4	38.0#

Manual Integrations
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#18

Pentachlorophenol

Concen: 0.42 ng/ml

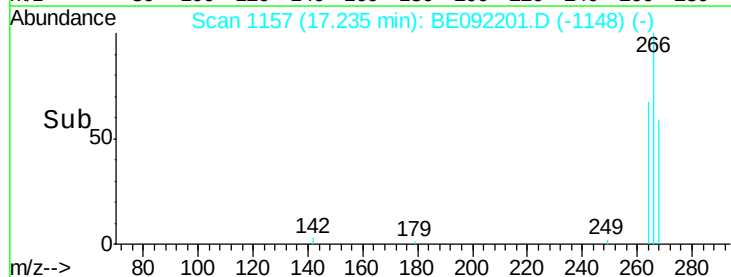
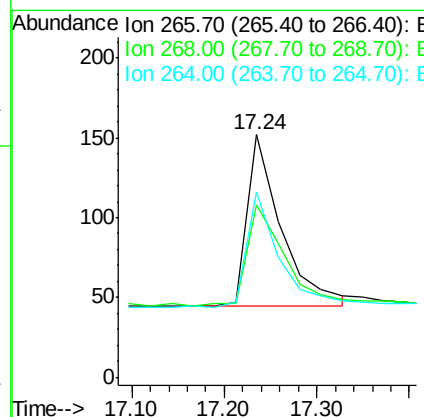
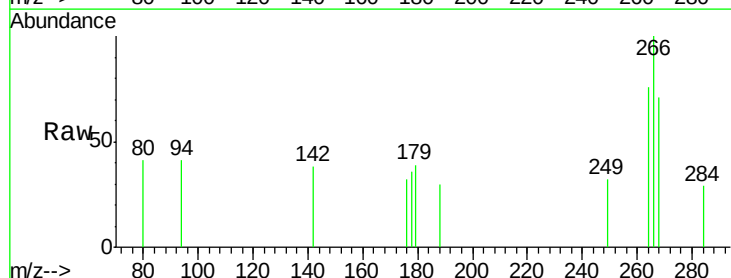
RT: 17.24 min Scan# 1157

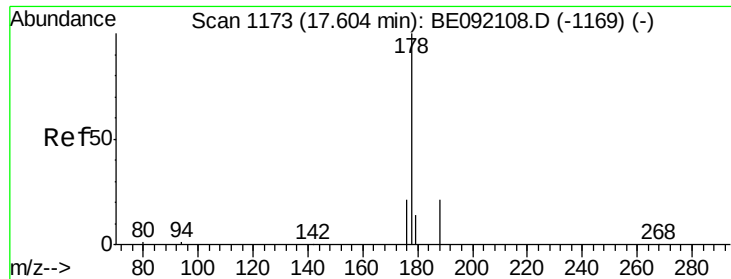
Delta R.T. 0.00 min

Lab File: BE092201.D

Acq: 5 Aug 2016 3:06

Tgt Ion:	266	Resp:	272
Ion Ratio	Lower	Upper	
266	100		
268	71.1	62.7	94.1
264	76.3	63.5	95.3





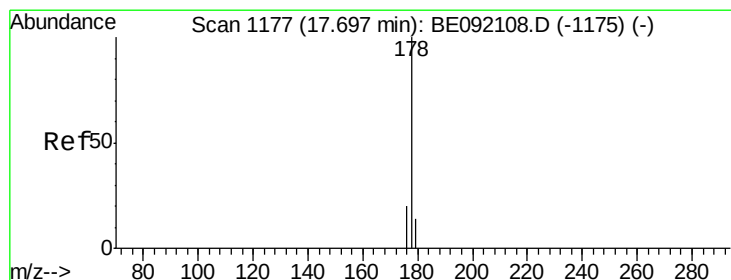
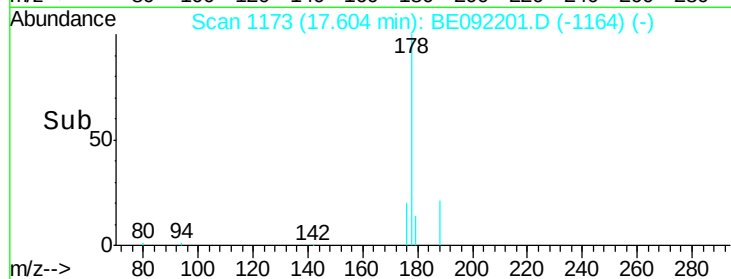
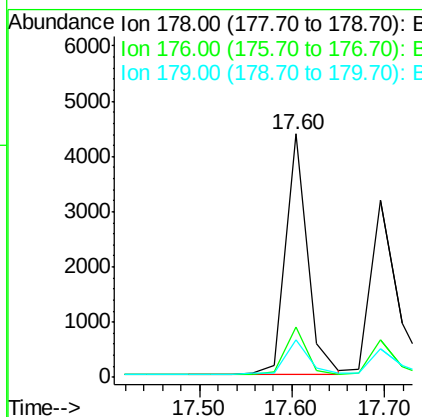
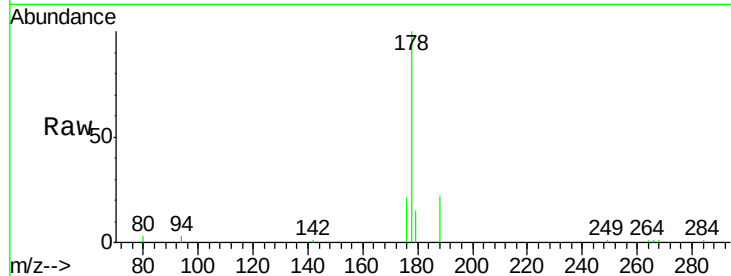
#19
Phenanthrene
Concen: 0.38 ng
RT: 17.60 min Scan# 1173
Delta R.T. -0.00 min
Lab File: BE092201.D
Acq: 5 Aug 2016 3:06

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.0
179	15.7	12.7	19.1

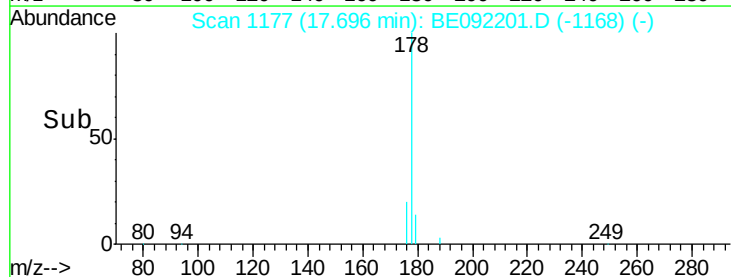
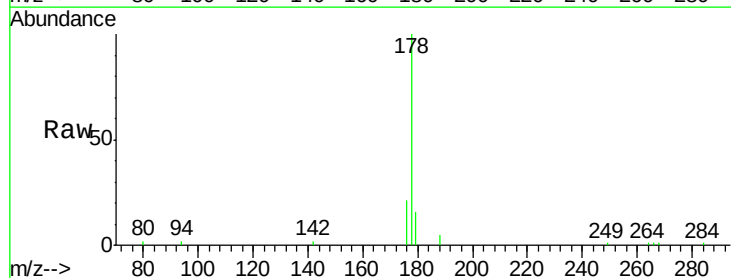
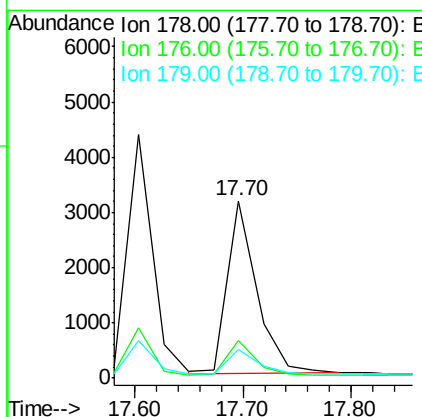
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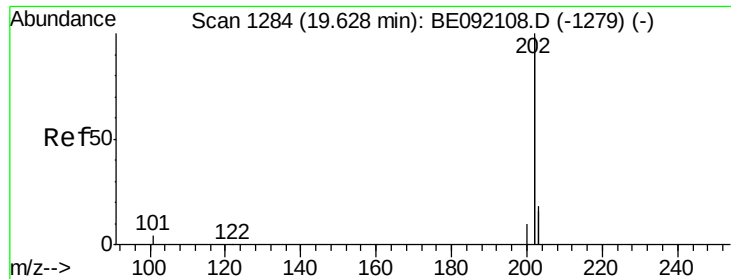
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#20
Anthracene
Concen: 0.35 ng
RT: 17.70 min Scan# 1177
Delta R.T. -0.00 min
Lab File: BE092201.D
Acq: 5 Aug 2016 3:06

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.2	22.8
179	15.2	12.2	18.4





#21

Fluoranthene

Concen: 0.35 ng

RT: 19.63 min Scan# 1284

Delta R.T. -0.00 min

Lab File: BE092201.D

Acq: 5 Aug 2016 3:06

Instrument :

BNA_E

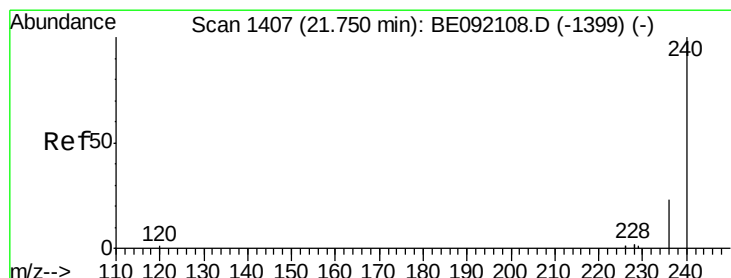
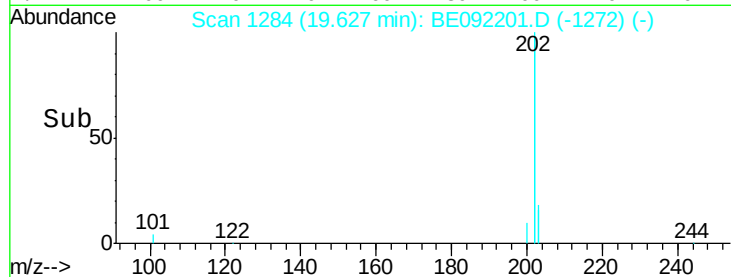
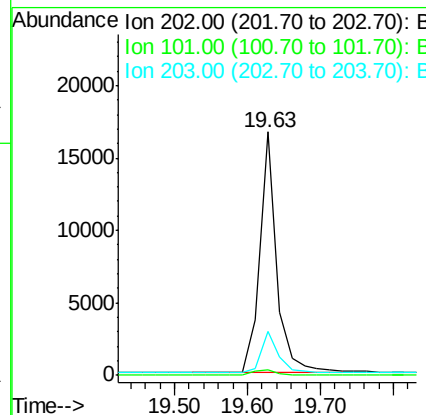
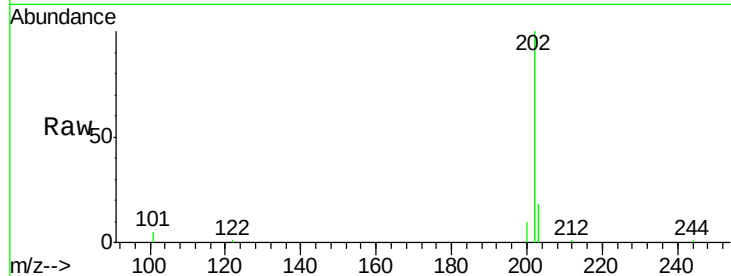
ClientSampleId :

SSTDCCC0.4

Tot Ion:	202	Resp:	27090
Ion Ratio	Lower	Upper	
202	100		
101	2.8	2.2	3.2
203	17.7	13.0	19.4

Manual Integrations
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#22

Chrysene-d12

Concen: 5.00 ng

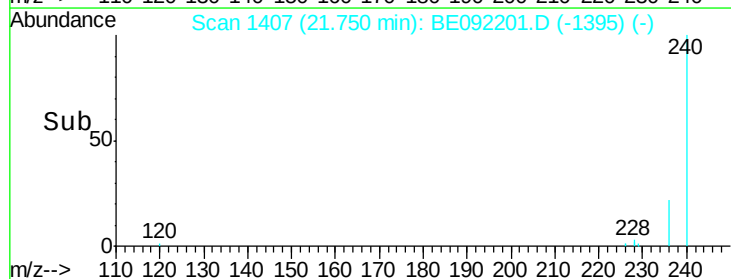
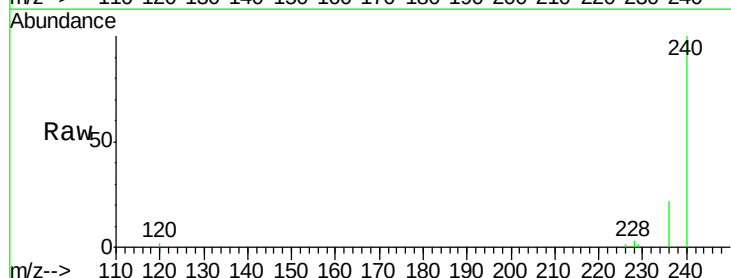
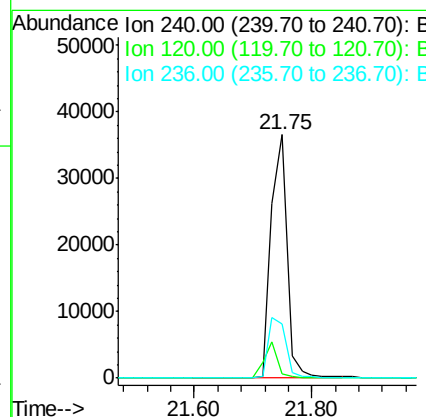
RT: 21.75 min Scan# 1407

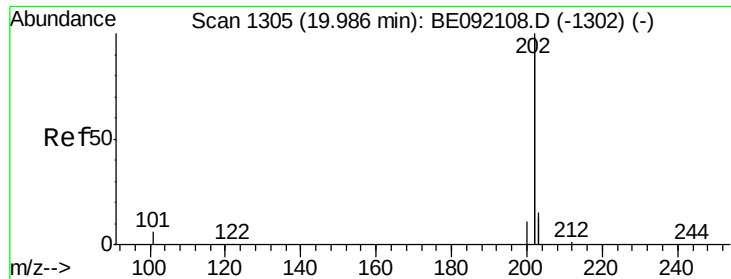
Delta R.T. -0.00 min

Lab File: BE092201.D

Acq: 5 Aug 2016 3:06

Tgt Ion:	240	Resp:	69149
Ion Ratio	Lower	Upper	
240	100		
120	1.6	0.6	1.0#
236	22.4	18.2	27.4





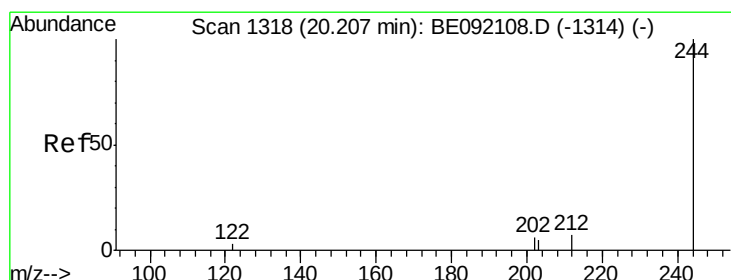
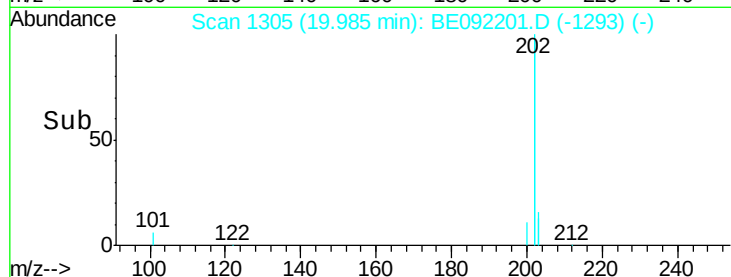
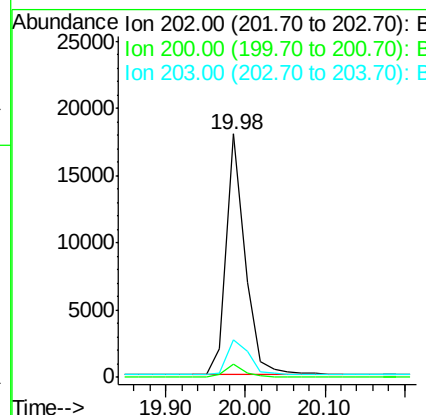
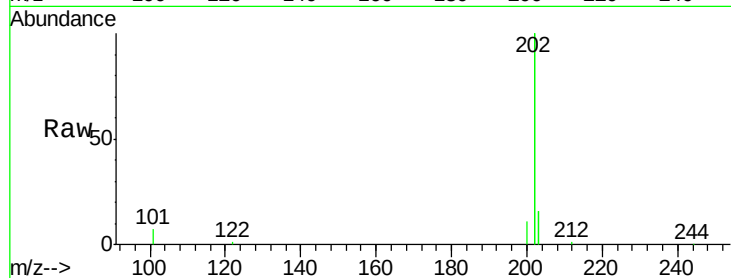
#23
Pvrene
Concen: 0.40 ng
RT: 19.98 min Scan# 1305
Delta R.T. -0.00 min
Lab File: BE092201.D
Acq: 5 Aug 2016 3:06

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	5.2	4.4	6.6
203	17.4	13.4	20.0

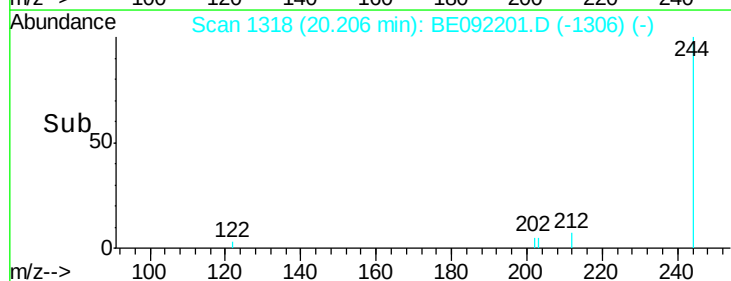
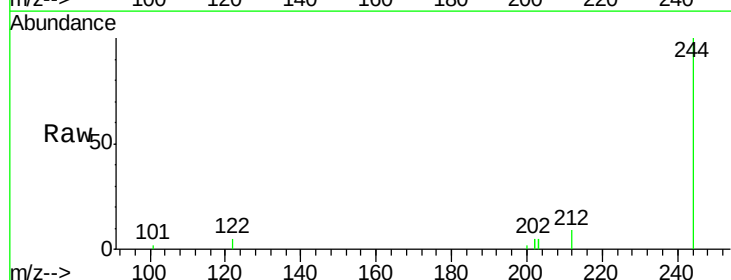
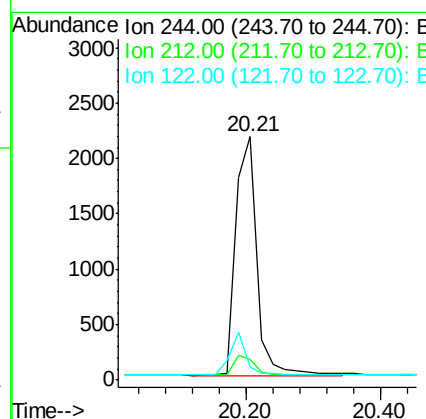
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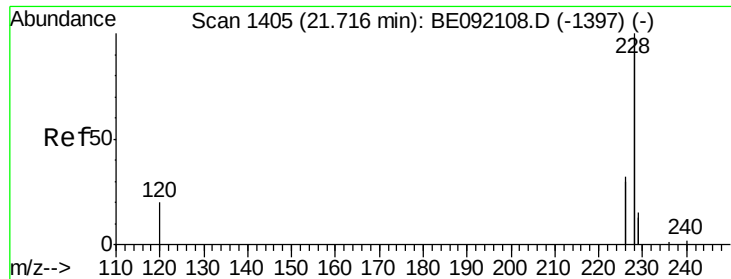
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#24
Terphenyl-d14
Concen: 0.47 ng
RT: 20.21 min Scan# 1318
Delta R.T. -0.00 min
Lab File: BE092201.D
Acq: 5 Aug 2016 3:06

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	8.8	9.1	13.7#
122	5.2	11.0	16.4#





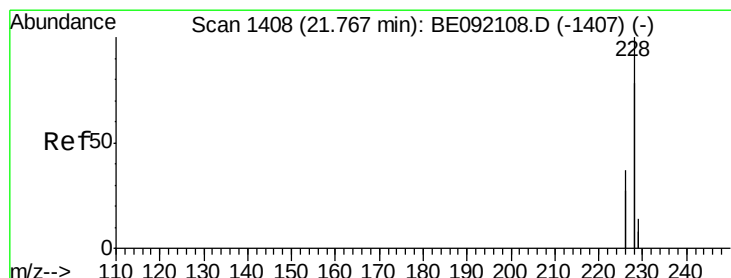
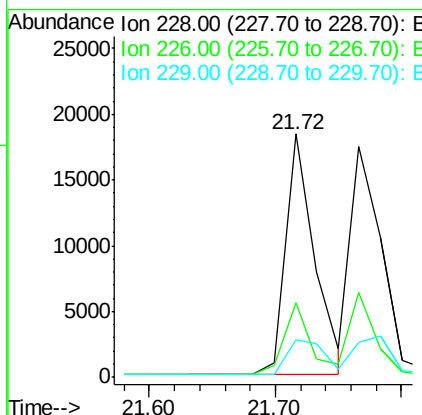
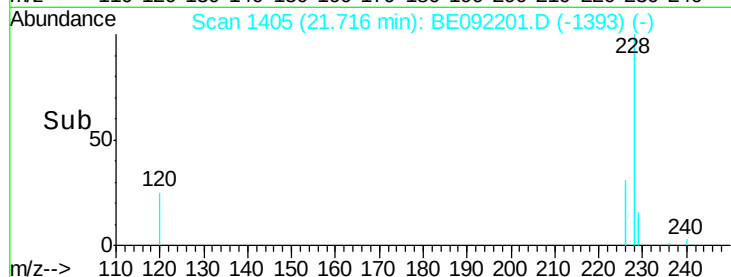
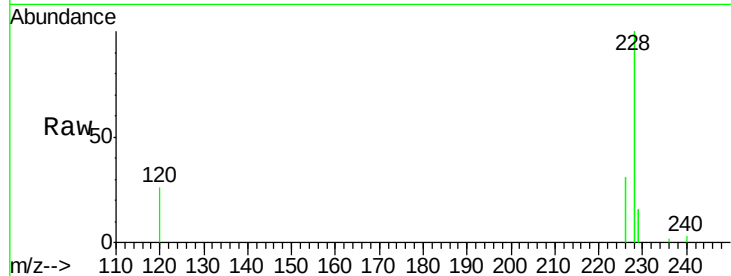
#25
Benzo(a)anthracene
Concen: 0.39 ng
RT: 21.72 min Scan# 1405
Delta R.T. -0.00 min
Lab File: BE092201.D
Acq: 5 Aug 2016 3:06

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.9	22.1	33.1
229	15.5	15.1	22.7

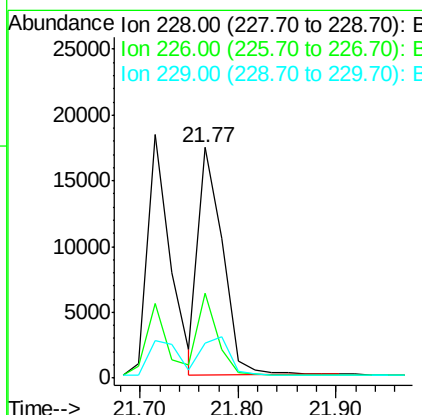
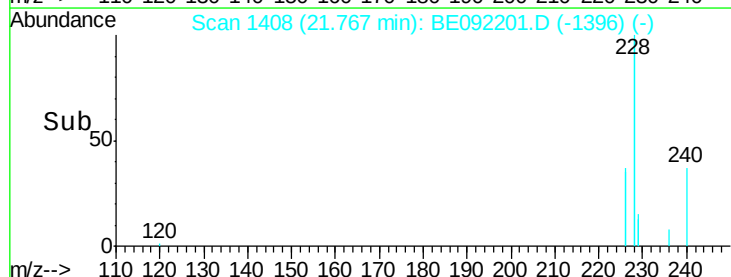
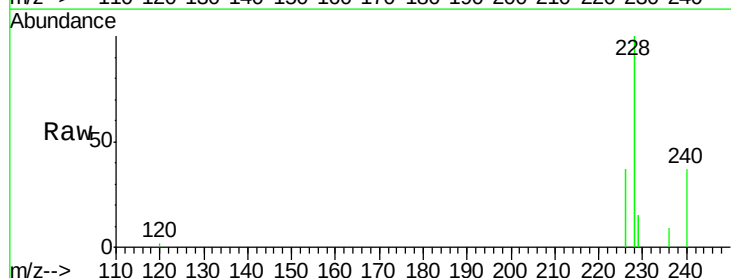
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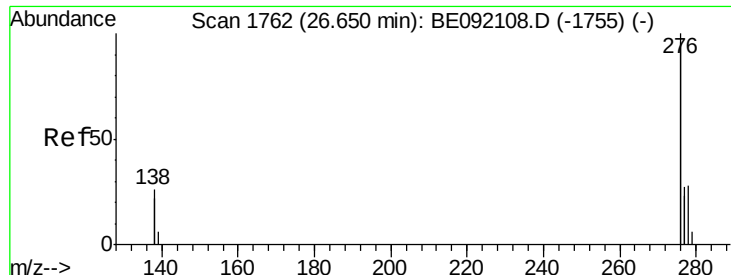
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#26
Chrysene
Concen: 0.39 ng
RT: 21.77 min Scan# 1408
Delta R.T. -0.00 min
Lab File: BE092201.D
Acq: 5 Aug 2016 3:06

Tgt Ion	Ratio	Lower	Upper
228	100		
226	36.8	22.3	33.5#
229	15.2	16.9	25.3#





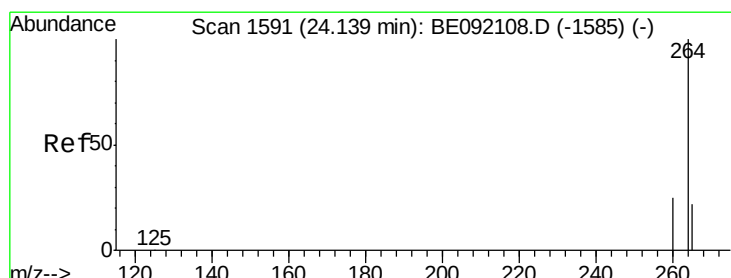
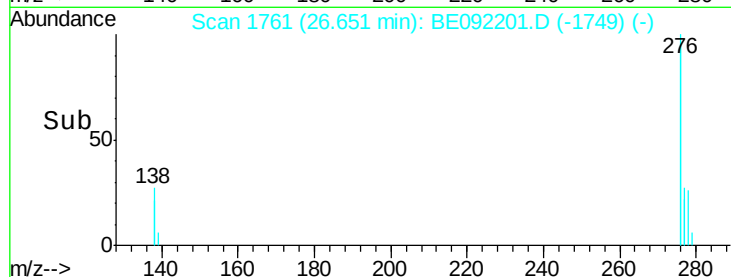
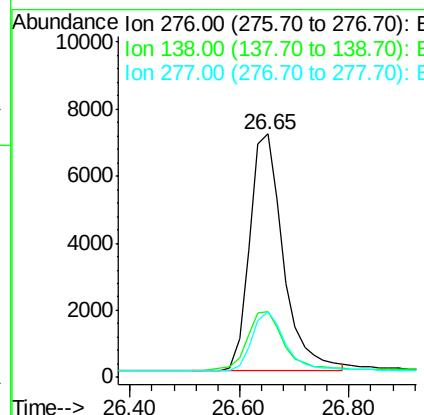
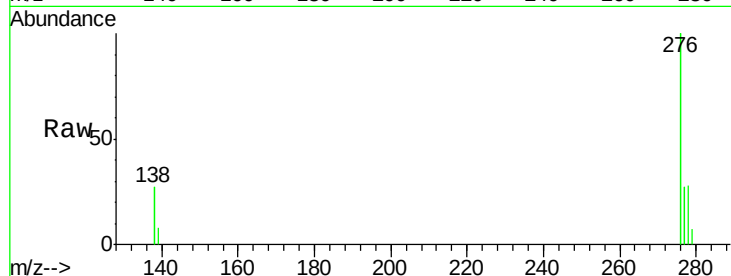
#27
Indeno(1,2,3-cd)pyrene
Concen: 0.37 ng
RT: 26.65 min Scan# 1761
Delta R.T. 0.00 min
Lab File: BE092201.D
Acq: 5 Aug 2016 3:06

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4

Tot Ion	Ratio	Lower	Upper
276	100		
138	26.9	21.2	31.8
277	24.6	19.8	29.8

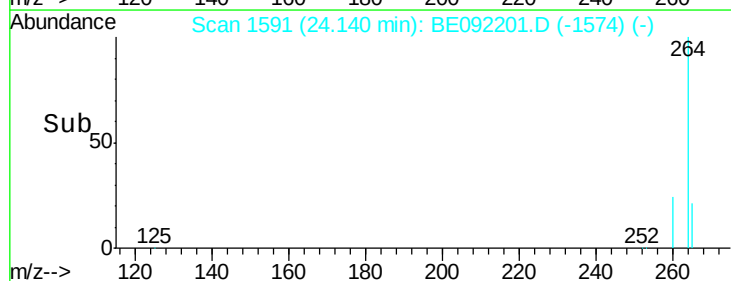
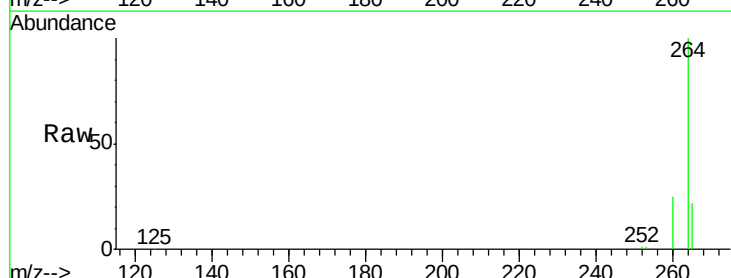
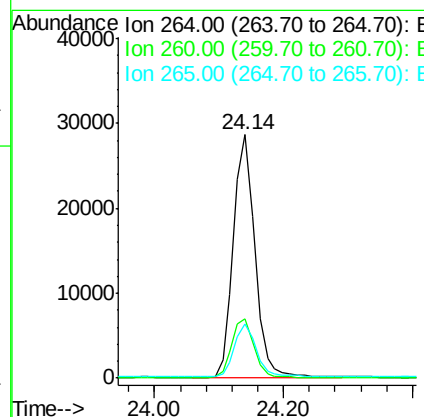
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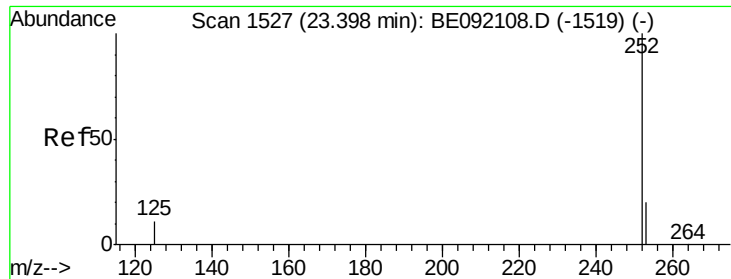
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#28
Perylene-d12
Concen: 5.00 ng
RT: 24.14 min Scan# 1591
Delta R.T. 0.00 min
Lab File: BE092201.D
Acq: 5 Aug 2016 3:06

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.6	20.8	31.2
265	22.1	16.6	25.0





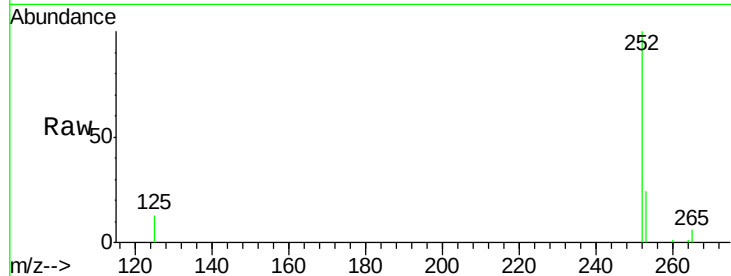
#29
Benzo(b)fluoranthene
Concen: 0.37 ng
RT: 23.40 min Scan# 1527
Delta R.T. 0.00 min
Lab File: BE092201.D
Acq: 5 Aug 2016 3:06

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.4	26.0
125	12.7	10.2	15.2

Manual Integrations
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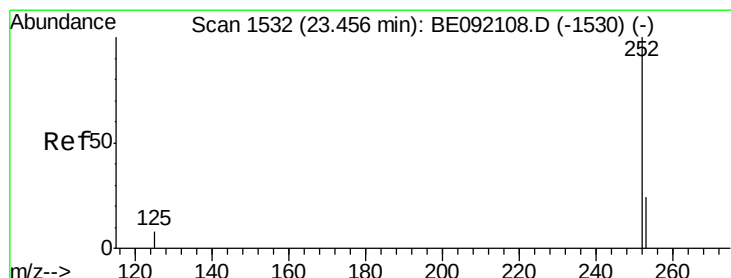
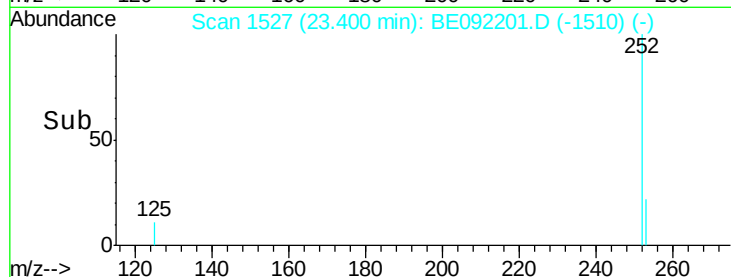
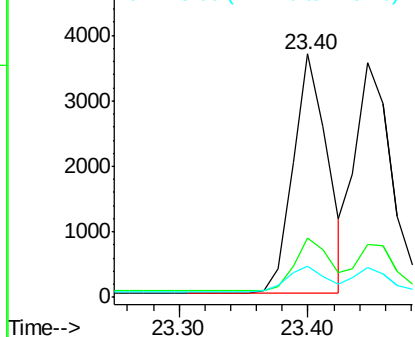


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#30
Benzo(k)fluoranthene
Concen: 0.40 ng
RT: 23.45 min Scan# 1531
Delta R.T. -0.01 min
Lab File: BE092201.D
Acq: 5 Aug 2016 3:06

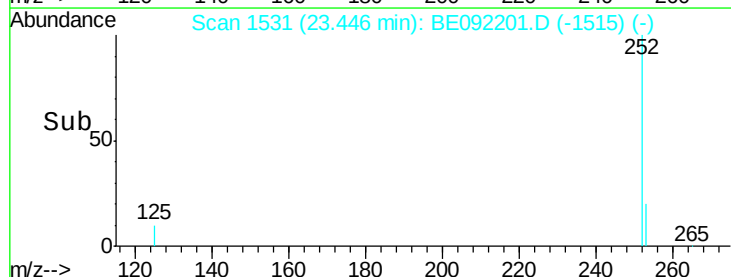
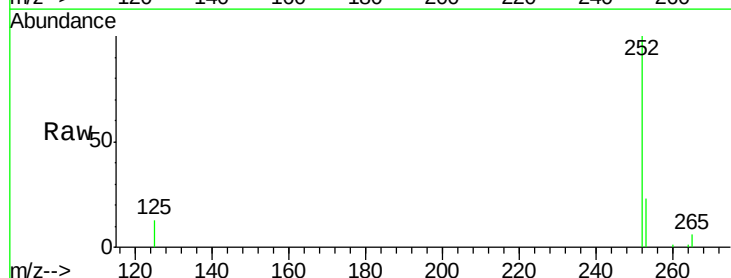
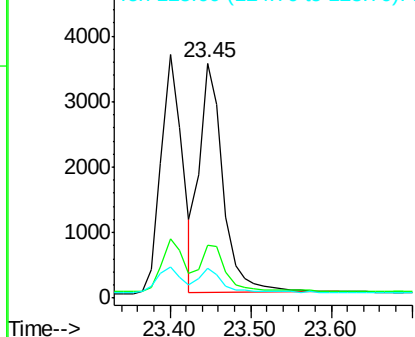
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	19.4	29.0
125	12.6	8.9	13.3

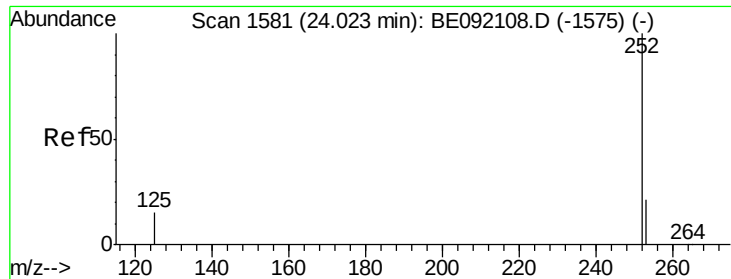
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





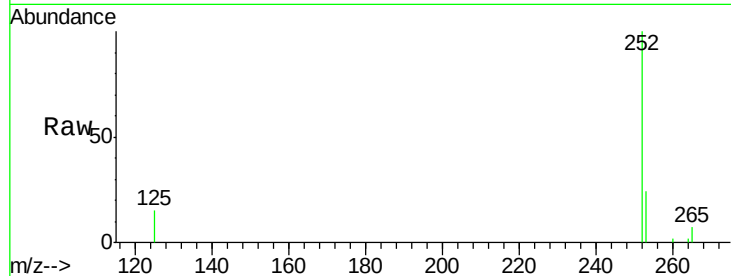
#31
Benzo(a)pyrene
Concen: 0.39 ng
RT: 24.02 min Scan# 1581
Delta R.T. 0.00 min
Lab File: BE092201.D
Acq: 5 Aug 2016 3:06

Instrument :
BNA_E
ClientSampleId :
SSTDCCC0.4

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.4	19.8	29.8
125	15.2	10.4	15.6

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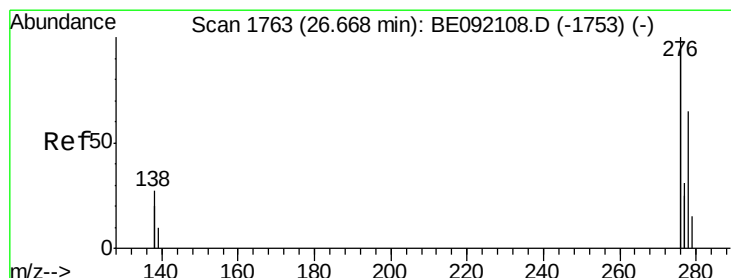
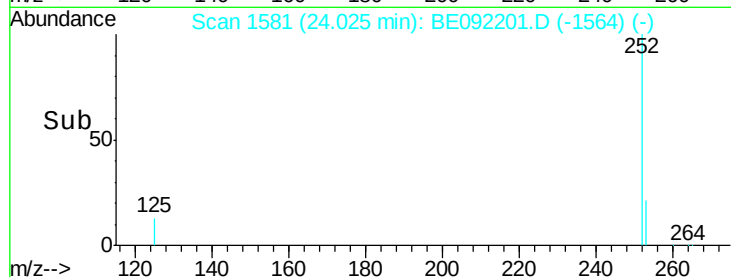
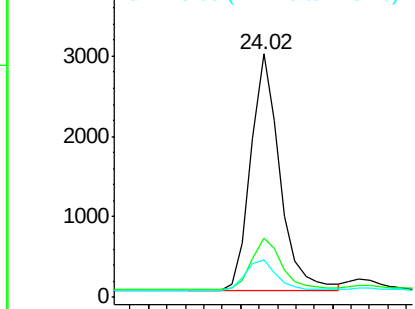


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#32
Dibenzo(a,h)anthracene
Concen: 0.38 ng
RT: 26.67 min Scan# 1762
Delta R.T. 0.00 min
Lab File: BE092201.D
Acq: 5 Aug 2016 3:06

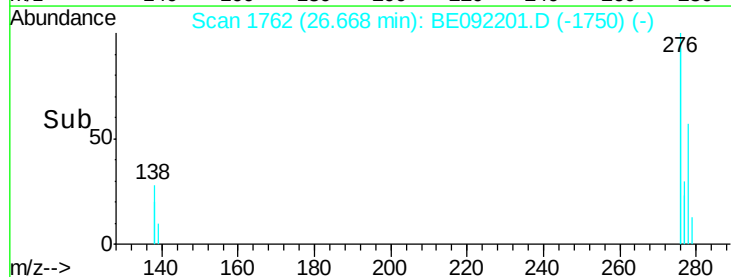
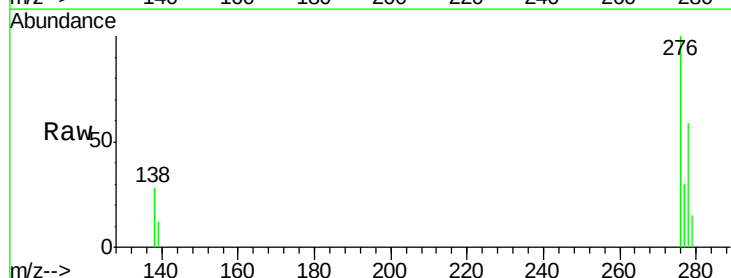
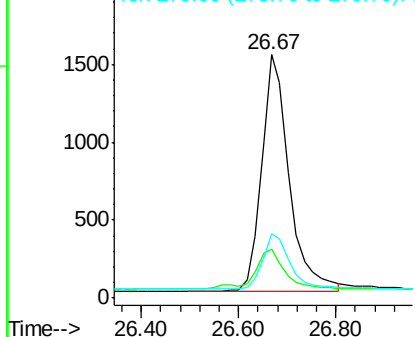
Tgt Ion	Ratio	Lower	Upper
278	100		
139	20.2	16.7	25.1
279	26.2	20.3	30.5

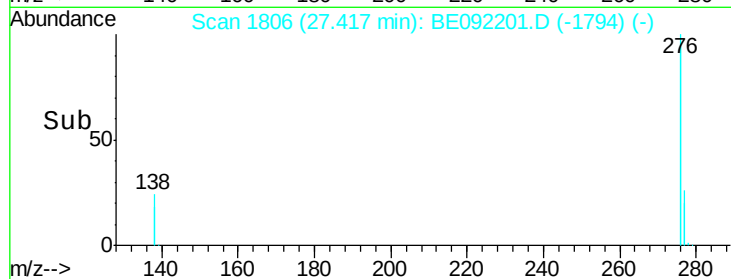
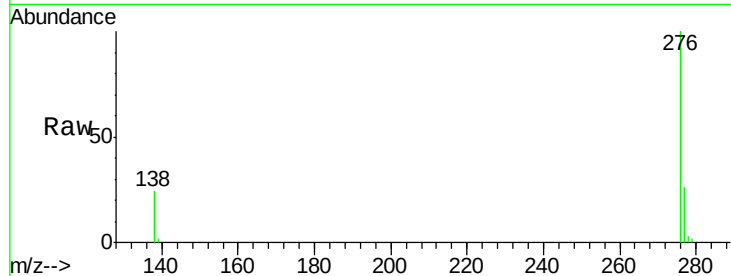
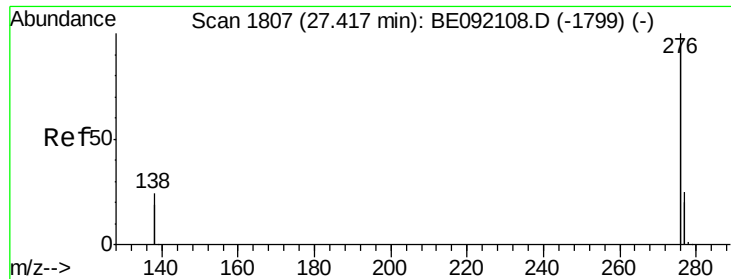
Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#33

Benzo(a,h,i)perylene

Concen: 0.38 ng

RT: 27.42 min Scan# 1806

Delta R.T. 0.00 min

Lab File: BE092201.D

Acq: 5 Aug 2016 3:06

Instrument :

BNA_E

ClientSampleId :

SSTDCCC0.4

Tot Ion:	276	Resp:	26011
Ion Ratio	Lower	Upper	
276	100		
277	25.5	19.5	29.3
138	24.1	20.8	31.2

Manual Integrations
APPROVED

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