

Data Path : Z:\HPCHEM1\BNA E\DATA\BE121916\
 Data File : BE092610.D
 Acq On : 19 Dec 2016 16:38
 Operator : UM/SJ
 Sample : PB95417BS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB95417BS

Manual Integrations
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Quant Time: Dec 20 00:55:55 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE121916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 19 16:16:32 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.14	152	9450	5.00	ng	0.00
7) Naphthalene-d8	10.91	136	41086	5.00	ng	-0.02
12) Acenaphthene-d10	14.80	164	25336	5.00	ng	0.00
18) Phenanthrene-d10	17.53	188	44443	5.00	ng	-0.02
24) Chrysene-d12	21.72	240	56053	5.00	ng	0.00
31) Perylene-d12	24.06	264	55325	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.65	112	17608	9.59	ng	-0.03
5) Phenol-d6	7.31	99	25449	9.15	ng	-0.07
8) Nitrobenzene-d5	9.32	82	11919	4.22	ng	-0.05
13) 2,4,6-Tribromophenol	16.29	330	5518	7.55	ng	-0.02
14) 2-Fluorobiphenyl	13.41	172	27488	4.54	ng	-0.02
26) Terphenyl-d14	20.16	244	31322	4.56	ng	-0.02

Target Compounds						Qvalue
2) 1,4-Dioxane	3.39	88	4056	3.73	ng	# 56
3) n-Nitrosodimethylamine	3.74	42	6512	4.15	ng	# 94
6) bis(2-Chloroethyl)ether	7.57	93	10641	3.94	ng	91
9) Naphthalene	10.97	128	34648	4.11	ng	95
10) Hexachlorobutadiene	11.26	225	5203	4.06	ng	99
11) 2-Methylnaphthalene	12.60	142	22894	4.27	ng	# 90
15) Acenaphthylene	14.51	152	149654	4.28	ng	100
16) Acenaphthene	14.85	154	22223	3.86	ng	91
17) Fluorene	15.83	166	28992	4.10	ng	99
19) Hexachlorobenzene	16.86	284	8710	4.59	ng	# 63
20) Pentachlorophenol	17.21	266	5731	6.93	ng	# 85
21) Phenanthrene	17.58	178	51002	4.55	ng	# 95
22) Anthracene	17.67	178	49498	4.83	ng	99
23) Fluoranthene	19.58	202	199572	4.12	ng	99
25) Pyrene	19.95	202	206218	4.18	ng	99
27) Benzo(a)anthracene	21.70	228	210323	4.18	ng	# 81
28) Chrysene	21.75	228	245489m	4.21	ng	
29) Bis(2-ethylhexyl)phthalate	21.61	149	30964	4.09	ng	# 75
30) Indeno(1,2,3-cd)pyrene	26.53	276	289343	5.49	ng	97
32) Benzo(b)fluoranthene	23.34	252	56490	4.44	ng	95
33) Benzo(k)fluoranthene	23.38	252	61441	4.33	ng	93
34) Benzo(a)pyrene	23.96	252	57066	4.65	ng	# 95
35) Dibenzo(a,h)anthracene	26.57	278	59984	5.14	ng	95
36) Benzo(g,h,i)perylene	27.30	276	251837	5.04	ng	98

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

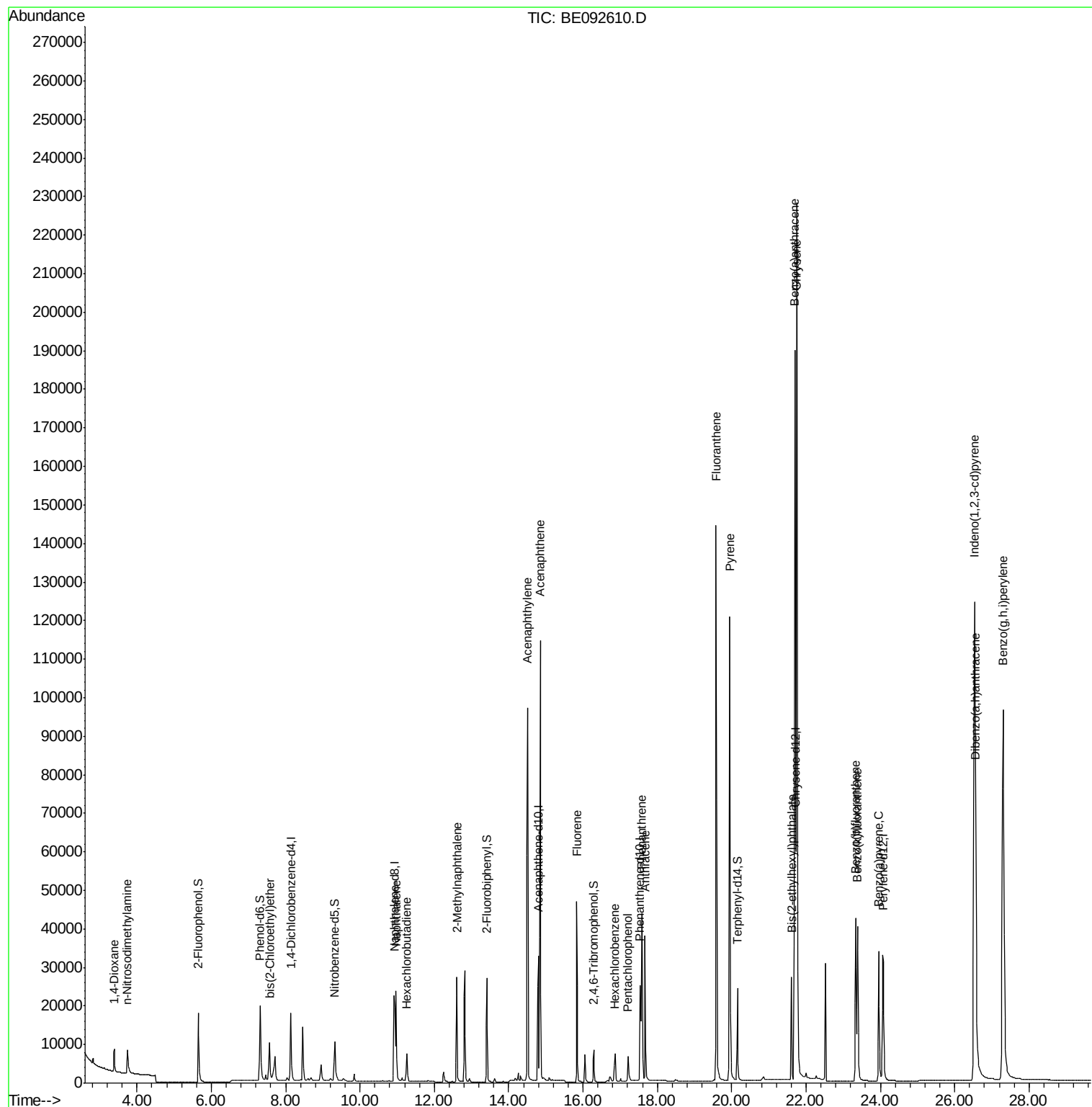
Data Path : Z:\HPCHEM1\BNA E\DATA\BE121916\
Data File : BE092610.D
Acq On : 19 Dec 2016 16:38
Operator : UM/SJ
Sample : PB95417BS
Misc :
ALS Vial : 12 Sample Multiplier: 1

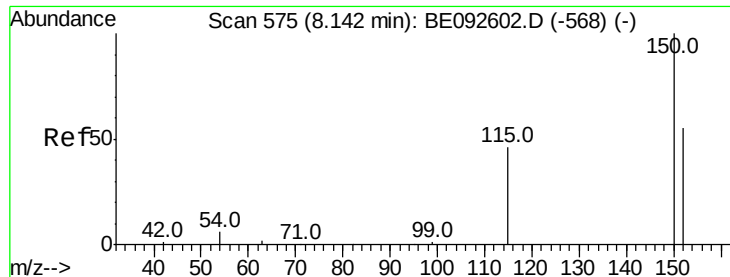
Instrument :
BNA_E
ClientSampleId :
PB95417BS

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Quant Time: Dec 20 00:55:55 2016
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 19 16:16:32 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.14 min Scan# 575

Delta R.T. 0.00 min

Lab File: BE092610.D

Acq: 19 Dec 2016 16:38

Instrument :

BNA_E

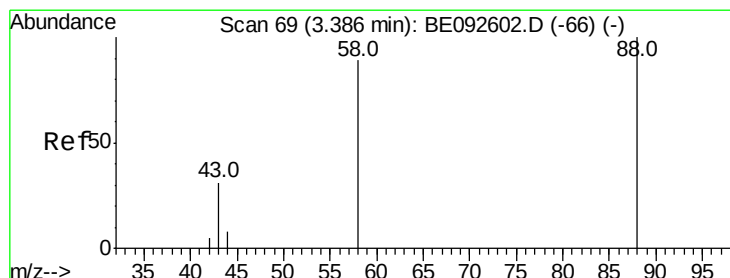
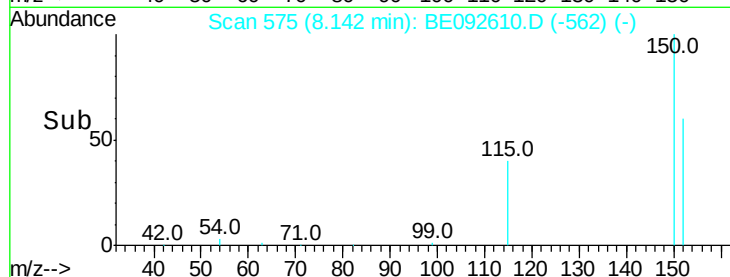
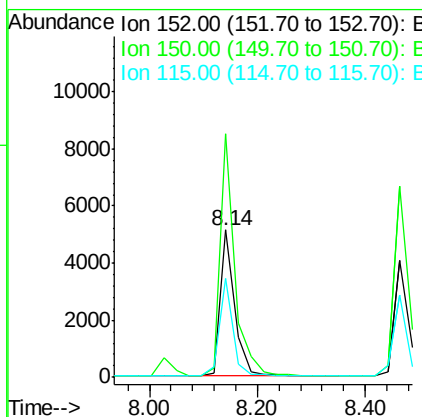
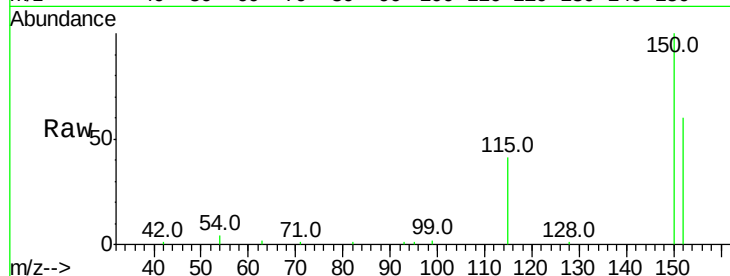
ClientSampleID :

PB95417BS

Tot Ion	Ratio	Lower	Upper
152	100		
150	165.6	106.0	159.0#
115	67.2	31.2	46.8#

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#2

1,4-Dioxane

Concen: 3.73 ng

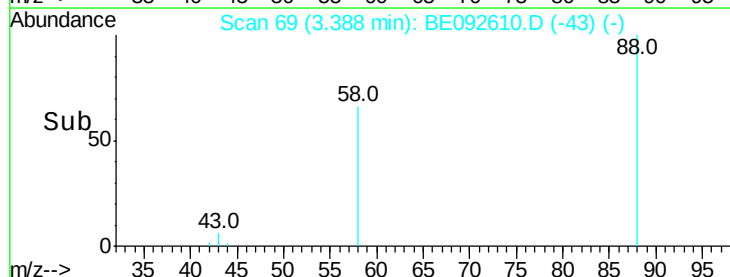
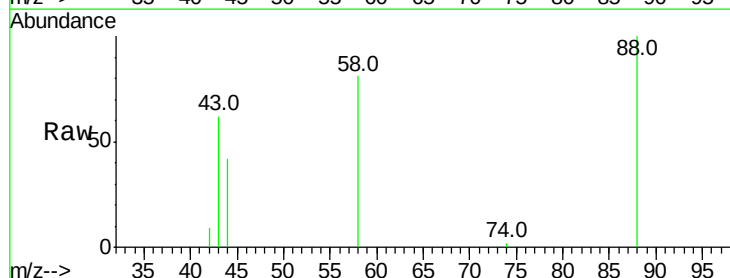
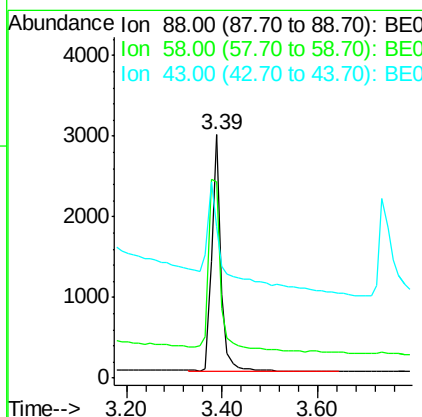
RT: 3.39 min Scan# 69

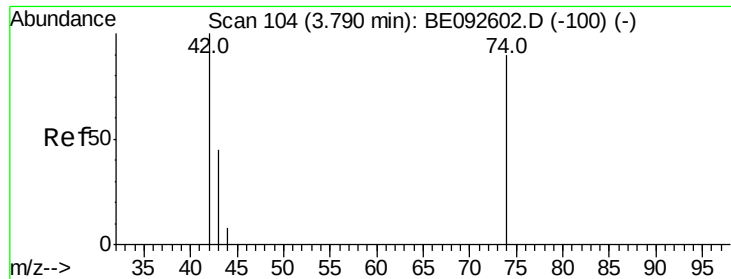
Delta R.T. 0.00 min

Lab File: BE092610.D

Acq: 19 Dec 2016 16:38

Tgt Ion	Ratio	Lower	Upper
88	100		
58	97.6	63.6	95.4#
43	91.0	28.0	42.0#





#3

n-Nitrosodimethylamine

Concen: 4.15 ng

RT: 3.74 min Scan# 99

Delta R.T. -0.05 min

Lab File: BE092610.D

Acq: 19 Dec 2016 16:38

Instrument :

BNA_E

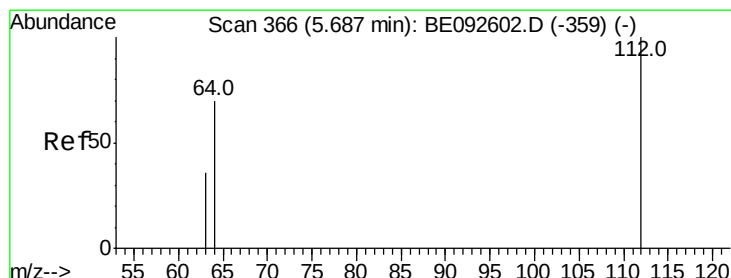
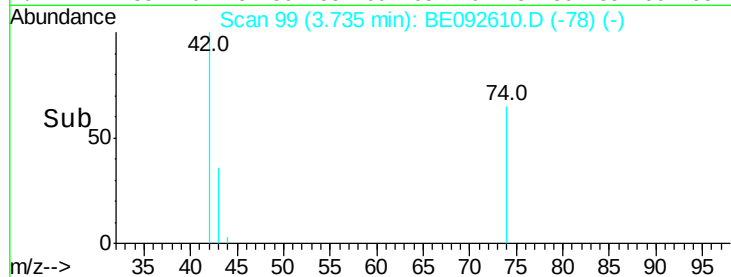
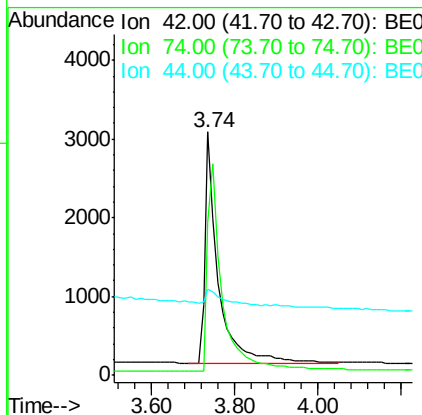
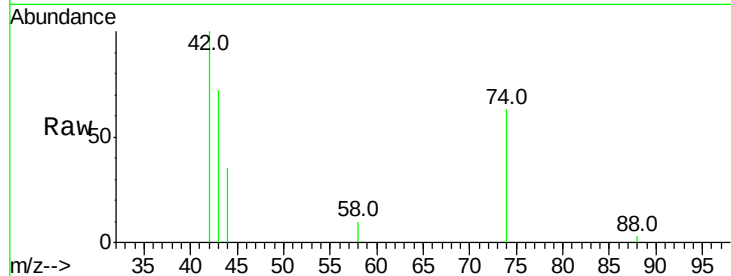
ClientSampleId :

PB95417BS

Tot Ion:	42	Resp:	6512
Ion Ratio	Lower	Upper	
42	100		
74	102.8	86.0	129.0
44	15.6	5.1	7.7#

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#4

2-Fluorophenol

Concen: 9.59 ng

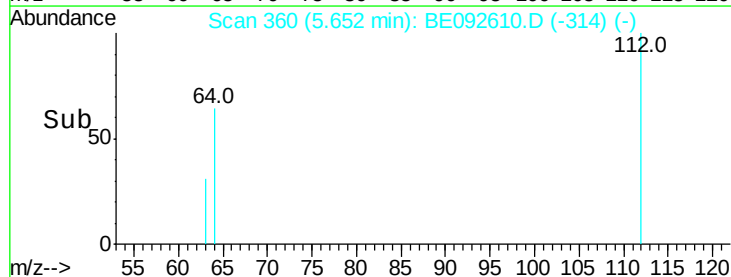
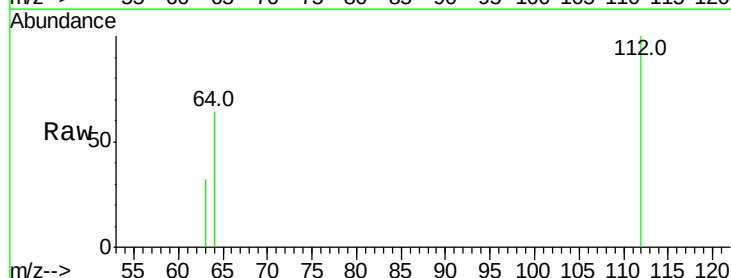
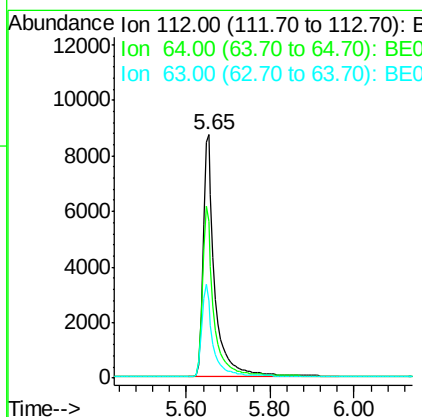
RT: 5.65 min Scan# 360

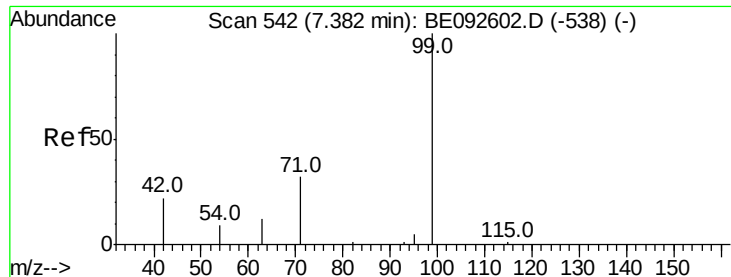
Delta R.T. -0.03 min

Lab File: BE092610.D

Acq: 19 Dec 2016 16:38

Tgt Ion:	112	Resp:	17608
Ion Ratio	Lower	Upper	
112	100		
64	68.6	53.5	80.3
63	36.8	27.9	41.9





#5

Phenol-d6

Concen: 9.15 ng

RT: 7.31 min Scan# 539

Delta R.T. -0.07 min

Lab File: BE092610.D

Acq: 19 Dec 2016 16:38

Instrument :

BNA_E

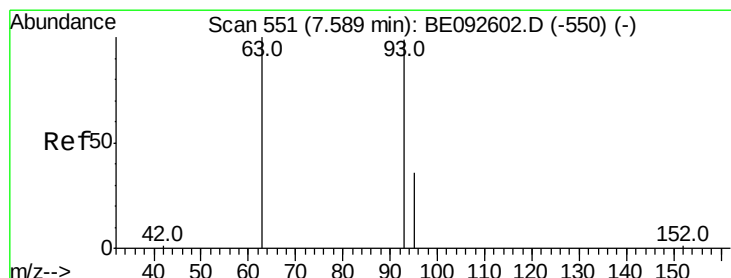
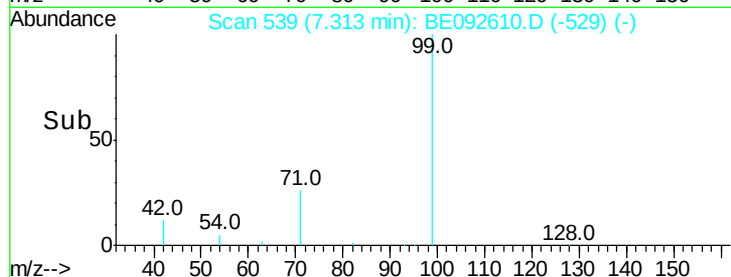
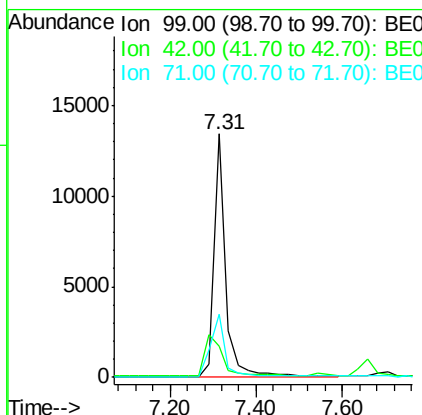
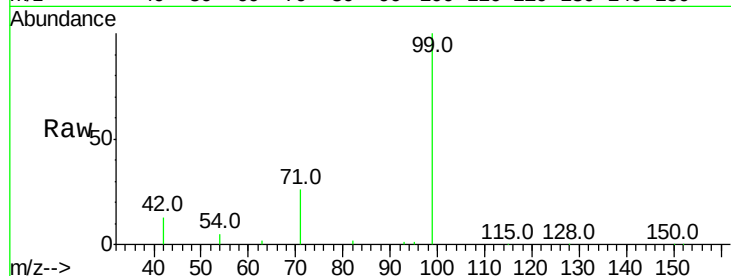
ClientSampleId :

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Tot Ion:	99	Resp:	25449
Ion Ratio	Lower	Upper	
99	100		
42	0.0	16.0	24.0#
71	32.2	30.6	45.8

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#6

bis(2-Chloroethyl)ether

Concen: 3.94 ng

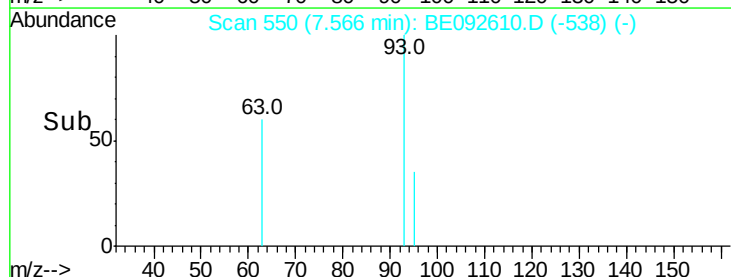
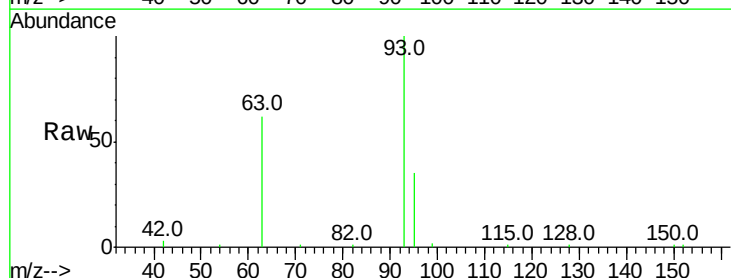
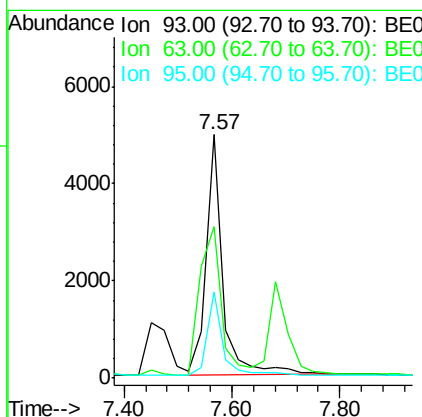
RT: 7.57 min Scan# 550

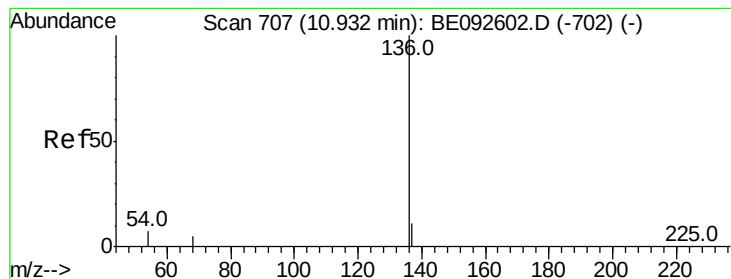
Delta R.T. -0.02 min

Lab File: BE092610.D

Acq: 19 Dec 2016 16:38

Tgt Ion:	93	Resp:	10641
Ion Ratio	Lower	Upper	
93	100		
63	80.4	71.6	107.4
95	33.2	24.0	36.0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.91 min Scan# 706

Delta R.T. -0.02 min

Lab File: BE092610.D

Acq: 19 Dec 2016 16:38

Instrument :

BNA_E

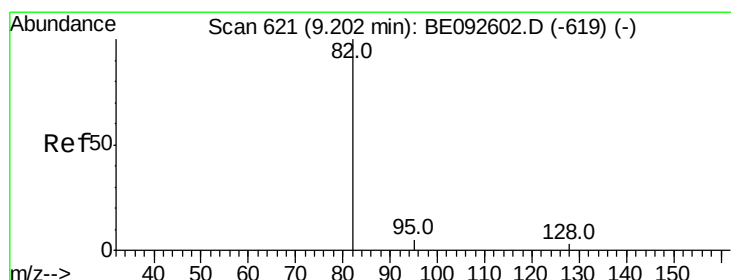
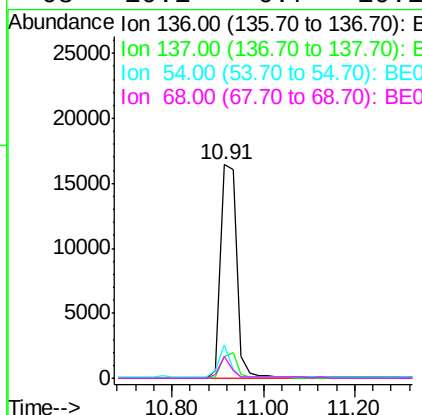
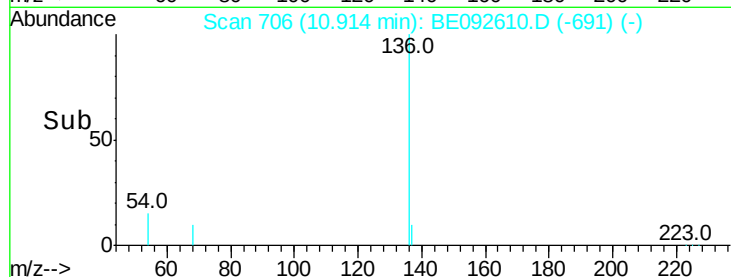
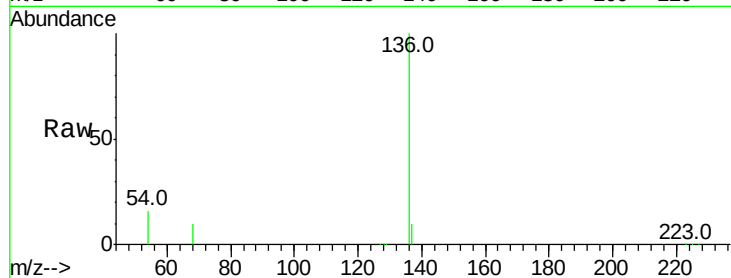
ClientSampleId :

PB95417BS

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	10.0	8.2	12.4	
54	15.8	9.6	14.4	
68	10.1	6.7	10.1	

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#8

Nitrobenzene-d5

Concen: 4.22 ng

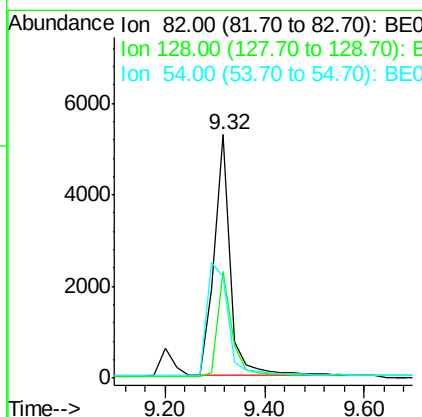
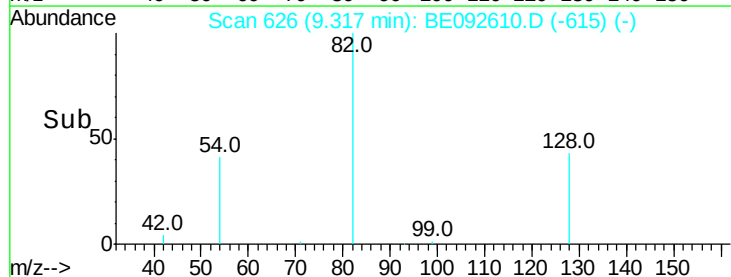
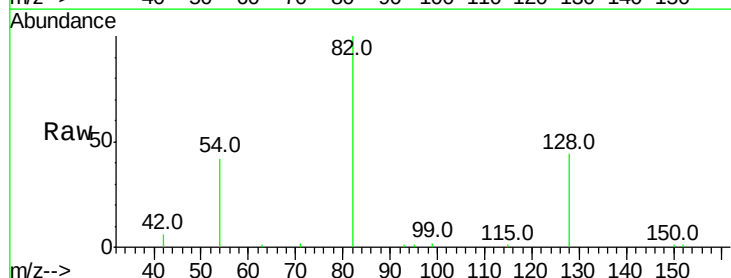
RT: 9.32 min Scan# 626

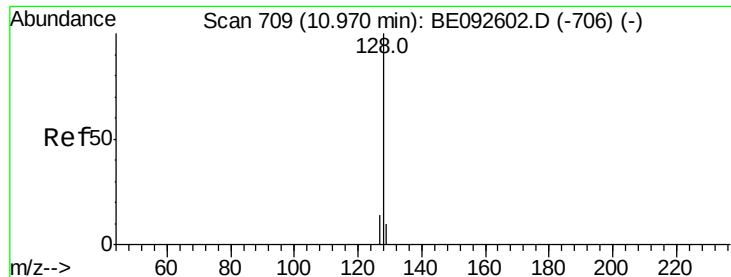
Delta R.T. -0.05 min

Lab File: BE092610.D

Acq: 19 Dec 2016 16:38

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	43.7	39.0	58.4	
54	41.9	44.8	67.2	





#9

Naphthalene

Concen: 4.11 ng

RT: 10.97 min Scan# 709

Delta R.T. 0.00 min

Lab File: BE092610.D

Acq: 19 Dec 2016 16:38

Instrument :

BNA_E

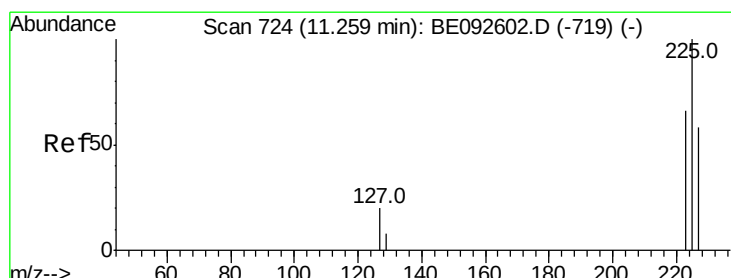
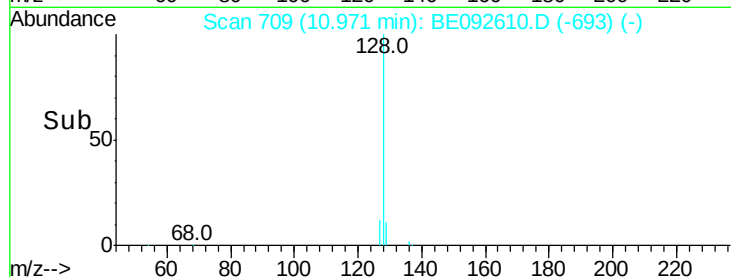
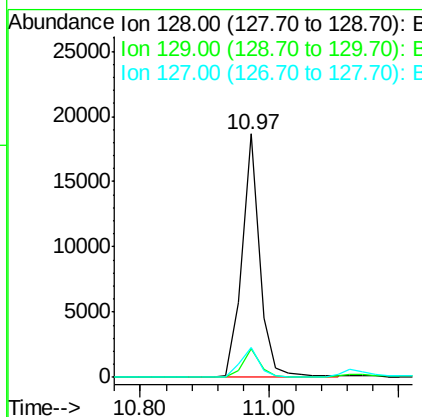
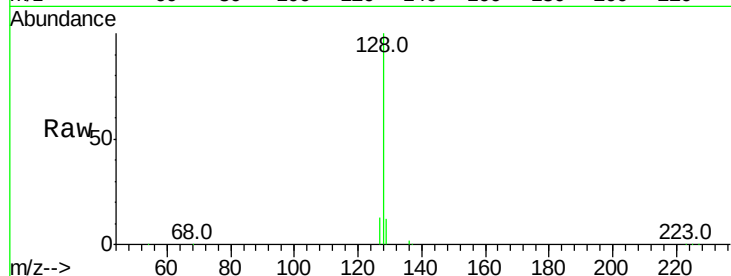
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Tot Ion:	128	Resp:	34648
Ion	Ratio	Lower	Upper
128	100		
129	11.5	11.2	16.8
127	12.5	11.6	17.4

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#10

Hexachlorobutadiene

Concen: 4.06 ng

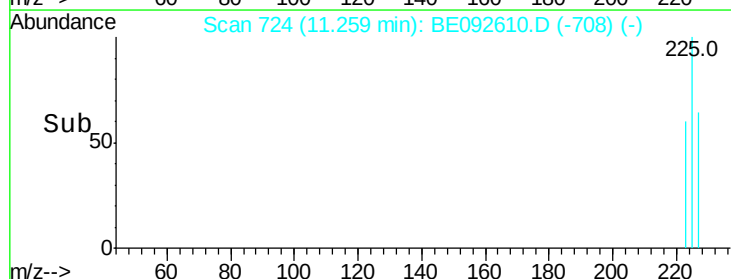
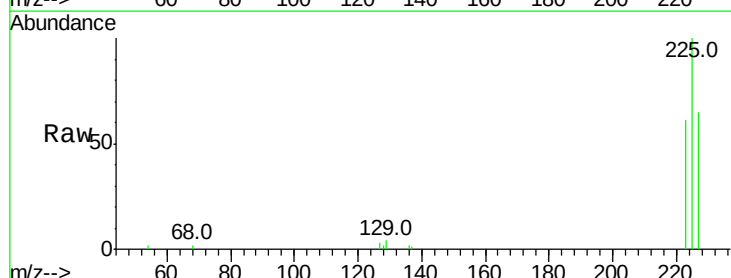
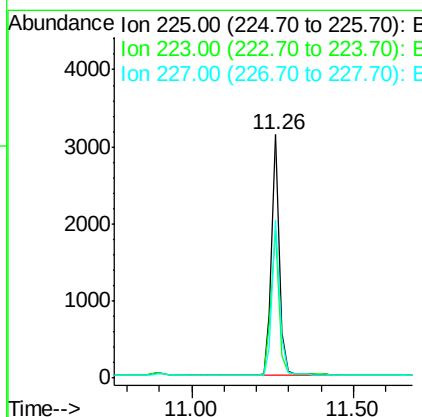
RT: 11.26 min Scan# 724

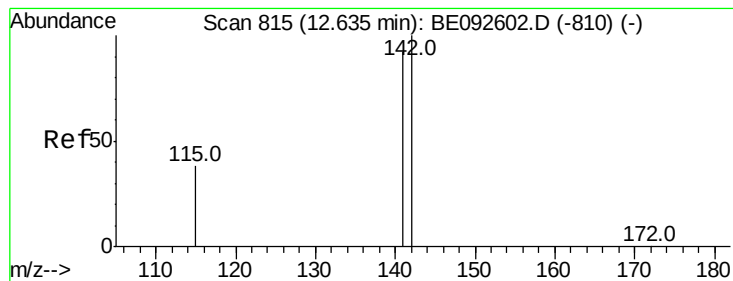
Delta R.T. 0.00 min

Lab File: BE092610.D

Acq: 19 Dec 2016 16:38

Tgt Ion:	225	Resp:	5203
Ion	Ratio	Lower	Upper
225	100		
223	62.4	50.6	76.0
227	63.6	51.4	77.0





#11

2-Methylnaphthalene

Concen: 4.27 ng

RT: 12.60 min Scan# 812

Delta R.T. -0.03 min

Lab File: BE092610.D

Acq: 19 Dec 2016 16:38

Instrument :

BNA_E

ClientSampleId :

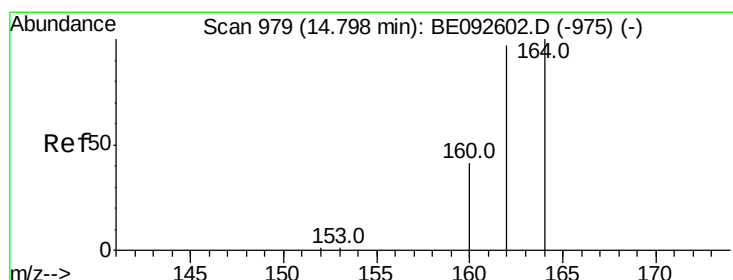
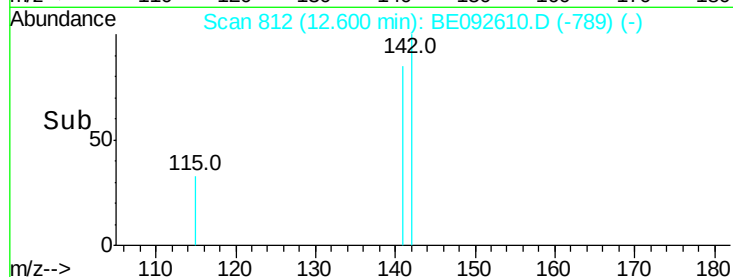
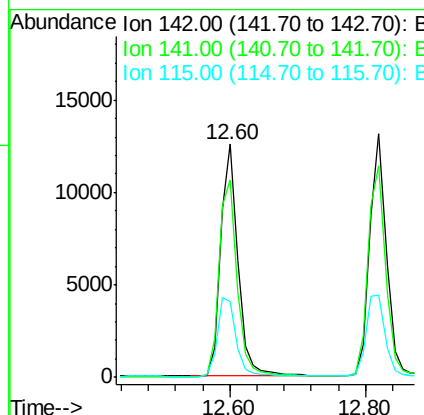
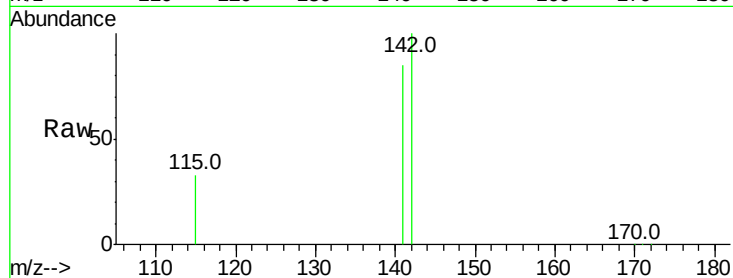
PB95417BS

Tot Ion:142 Resp: 22894

Ion	Ratio	Lower	Upper
142	100		
141	84.5	73.7	110.5
115	32.6	34.0	51.0#

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#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.80 min Scan# 979

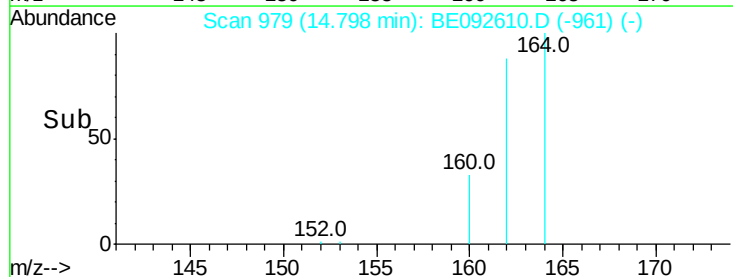
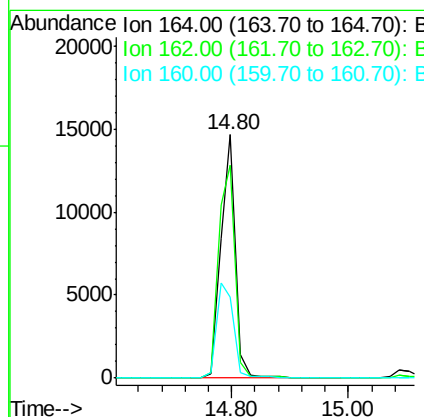
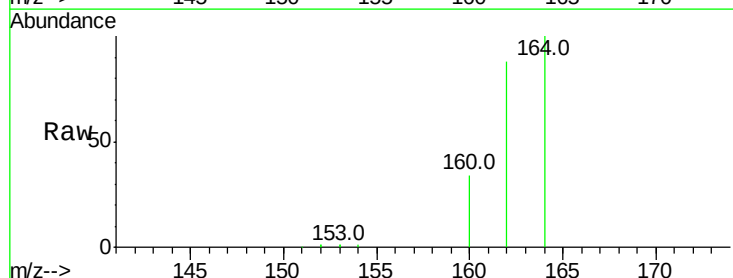
Delta R.T. 0.00 min

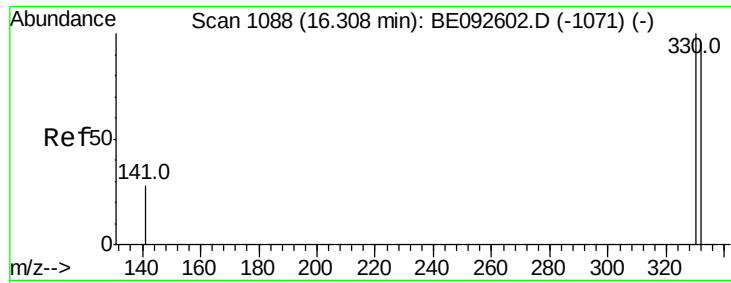
Lab File: BE092610.D

Acq: 19 Dec 2016 16:38

Tgt Ion:164 Resp: 25336

Ion	Ratio	Lower	Upper
164	100		
162	87.6	71.4	107.0
160	33.5	27.4	41.2





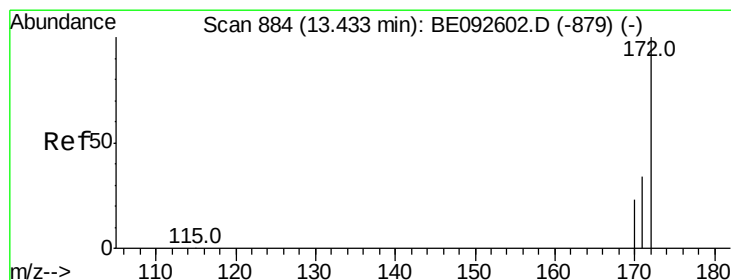
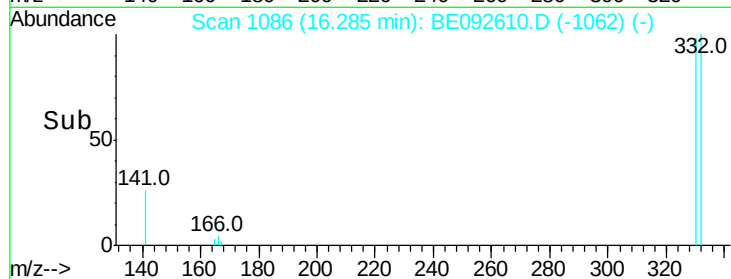
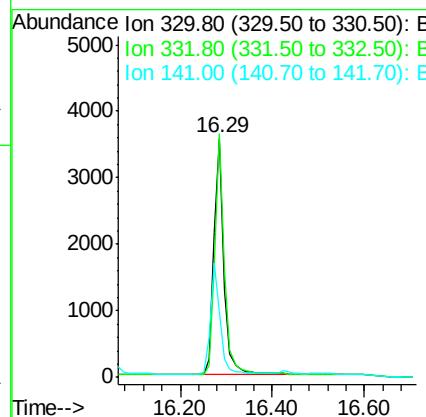
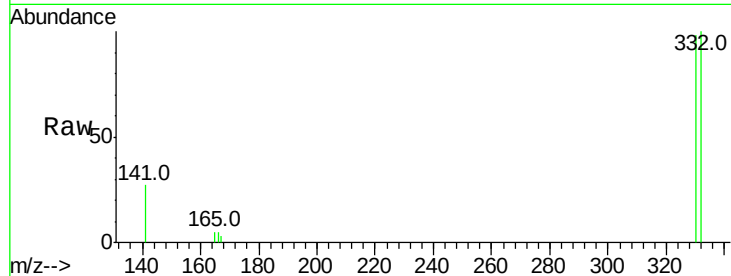
#13
 2,4,6-Tribromophenol
 Concen: 7.55 ng
 RT: 16.29 min Scan# 1086
 Delta R.T. -0.02 min
 Lab File: BE092610.D
 Acq: 19 Dec 2016 16:38

Instrument :
 BNA_E
 ClientSampleId :
 PB95417BS

Tot Ion	Ratio	Lower	Upper
330	100		
332	98.1	75.4	113.0
141	45.6	31.0	46.6

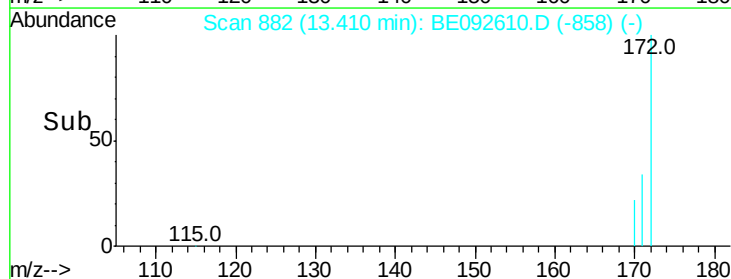
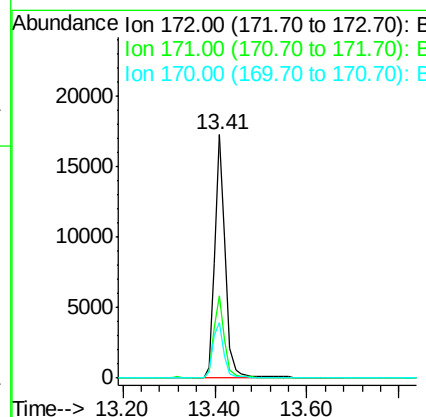
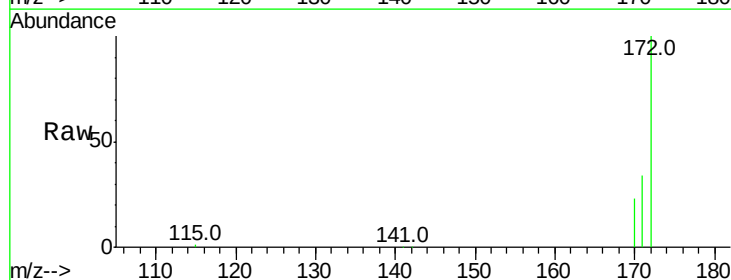
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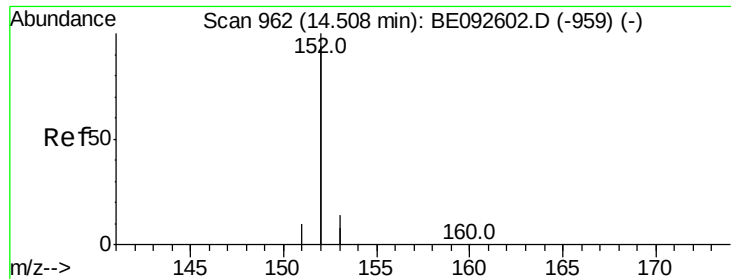
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#14
 2-Fluorobiphenyl
 Concen: 4.54 ng
 RT: 13.41 min Scan# 882
 Delta R.T. -0.02 min
 Lab File: BE092610.D
 Acq: 19 Dec 2016 16:38

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.0	30.1	45.1
170	22.6	21.8	32.6





#15

Acenaphthylene

Concen: 4.28 ng

RT: 14.51 min Scan# 962

Delta R.T. 0.00 min

Lab File: BE092610.D

Acq: 19 Dec 2016 16:38

Instrument :

BNA_E

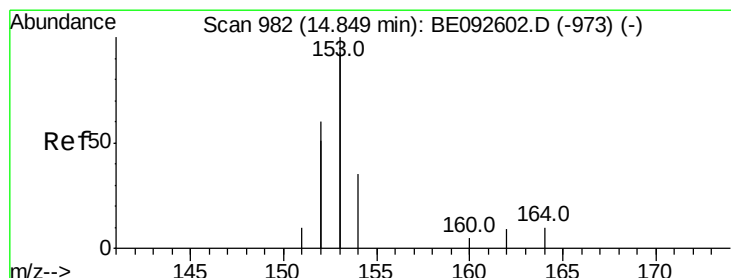
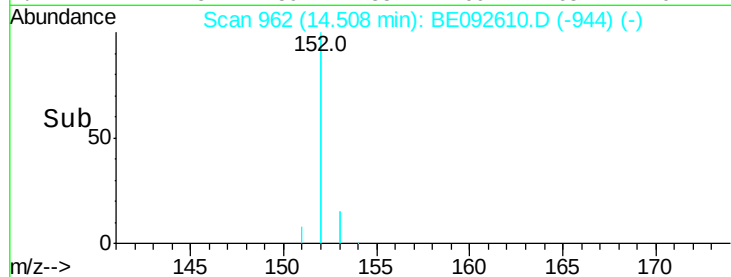
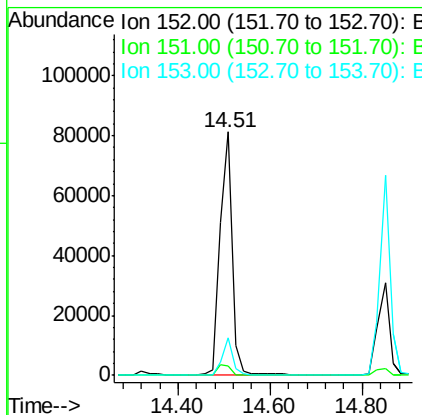
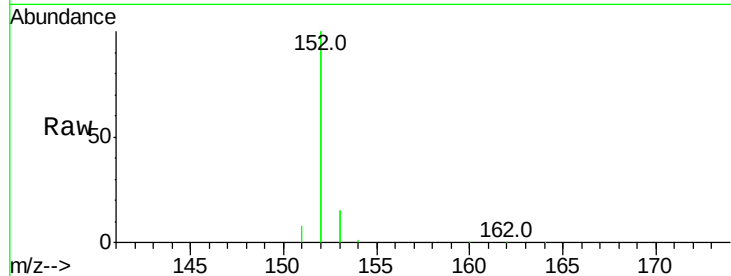
ClientSampleId :

PB95417BS

Tot Ion:	152	Resp:	149654
Ion Ratio	Lower	Upper	
152	100		
151	4.9	3.9	5.9
153	13.0	10.4	15.6

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#16

Acenaphthene

Concen: 3.86 ng

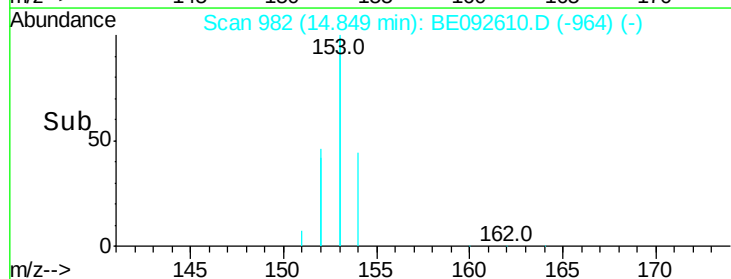
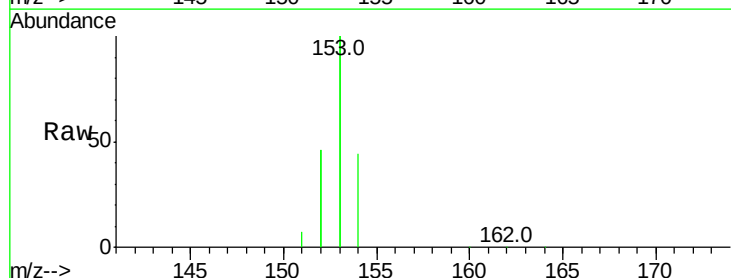
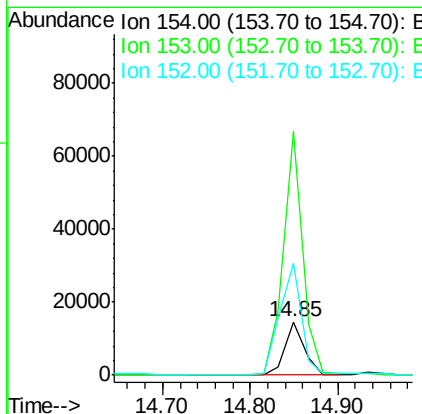
RT: 14.85 min Scan# 982

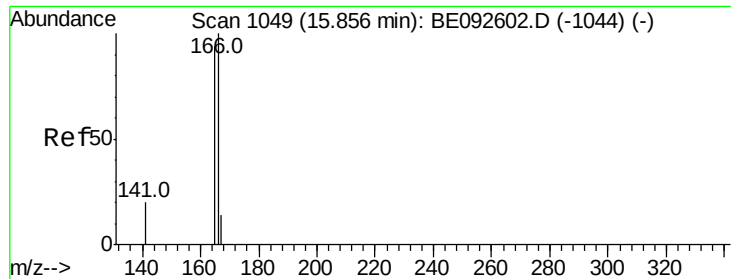
Delta R.T. 0.00 min

Lab File: BE092610.D

Acq: 19 Dec 2016 16:38

Tgt Ion:	154	Resp:	22223
Ion Ratio	Lower	Upper	
154	100		
153	457.5	350.8	526.2
152	232.6	171.1	256.7





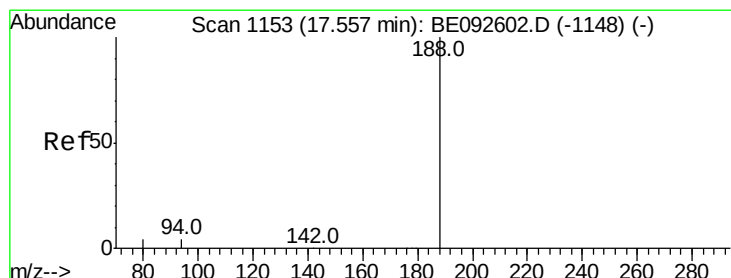
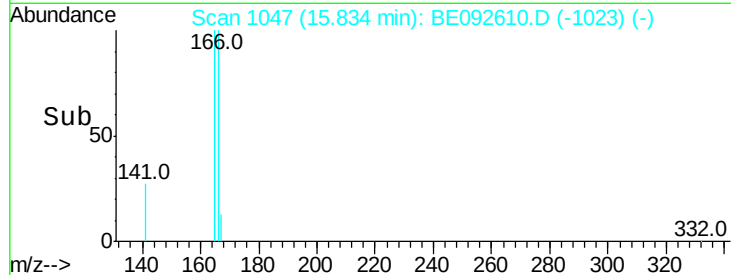
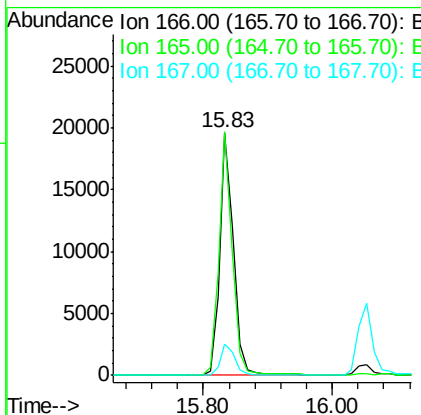
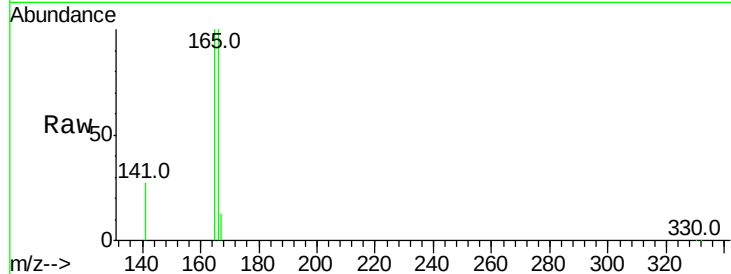
#17
Fluorene
Concen: 4.10 ng
RT: 15.83 min Scan# 1047
Delta R.T. -0.02 min
Lab File: BE092610.D
Acq: 19 Dec 2016 16:38

Instrument :
BNA_E
ClientSampleId :
PB95417BS

Tot Ion	Ratio	Lower	Upper
166	100		
165	98.5	78.2	117.4
167	13.6	11.0	16.4

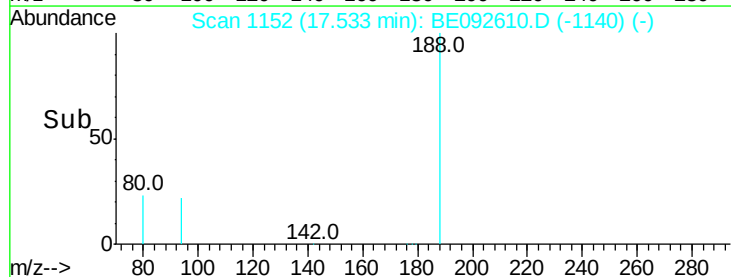
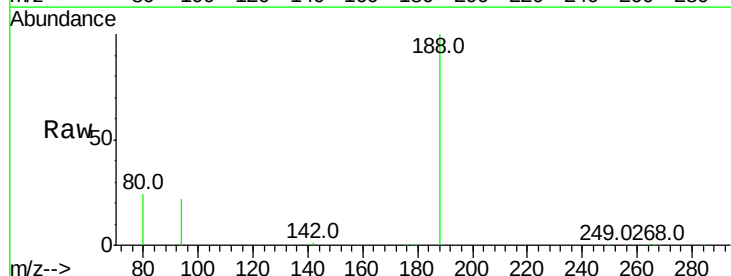
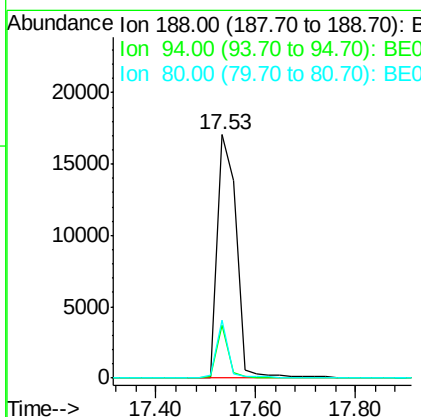
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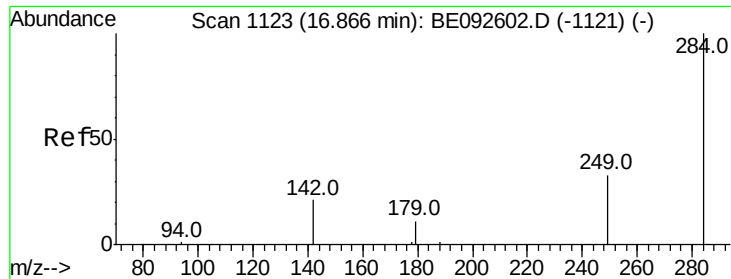
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#18
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.53 min Scan# 1152
Delta R.T. -0.02 min
Lab File: BE092610.D
Acq: 19 Dec 2016 16:38

Tgt Ion	Ratio	Lower	Upper
188	100		
94	21.8	3.2	4.8#
80	23.7	2.6	3.8#





#19

Hexachlorobenzene

Concen: 4.59 ng

RT: 16.86 min Scan# 1123

Delta R.T. -0.00 min

Lab File: BE092610.D

Acq: 19 Dec 2016 16:38

Instrument :

BNA_E

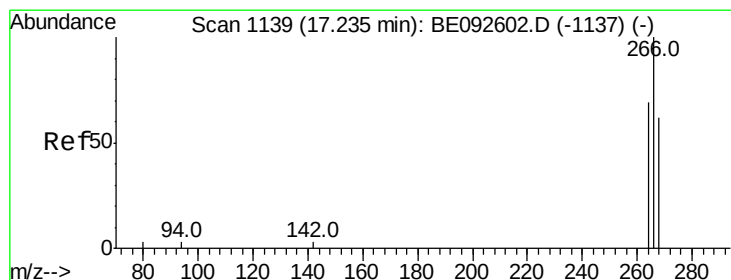
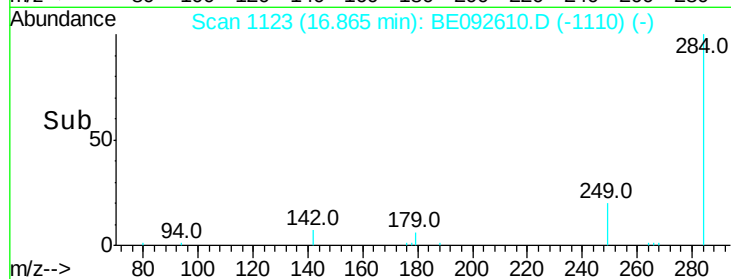
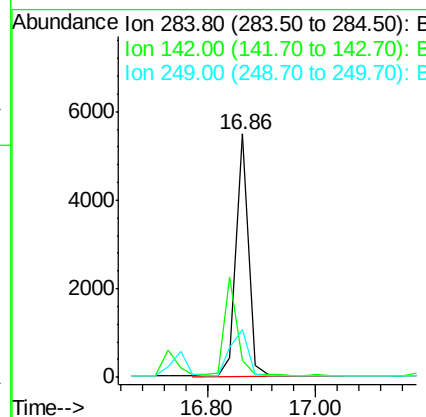
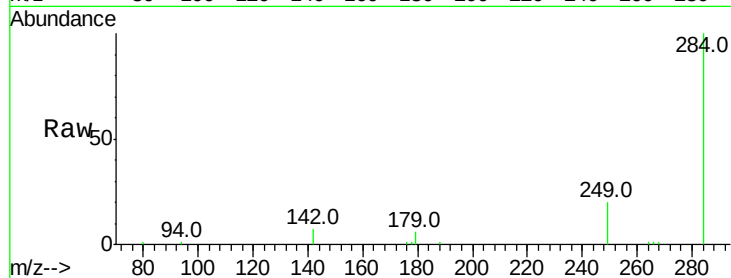
ClientSampleId :

PB95417BS

Tot Ion:	284	Resp:	8710
Ion Ratio	Lower	Upper	
284	100		
142	0.0	29.1	43.7#
249	28.3	27.9	41.9

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#20

Pentachlorophenol

Concen: 6.93 ng

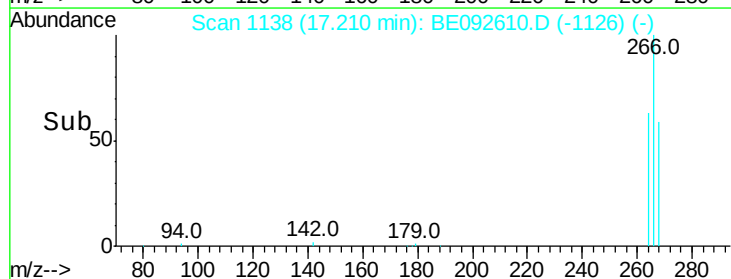
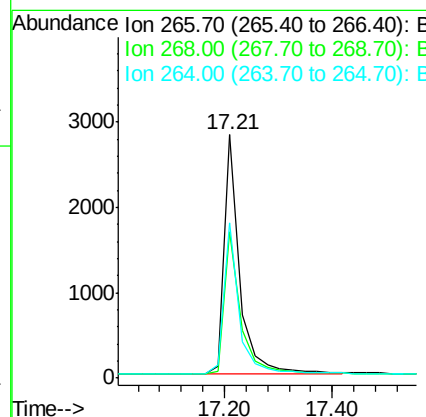
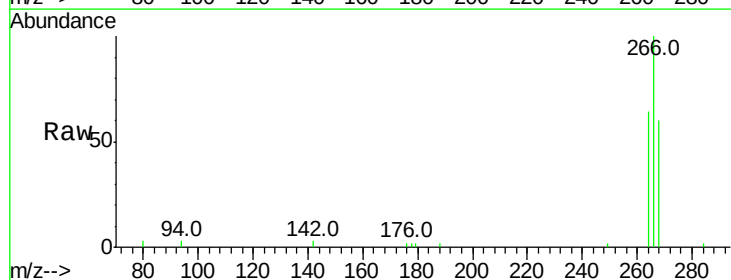
RT: 17.21 min Scan# 1138

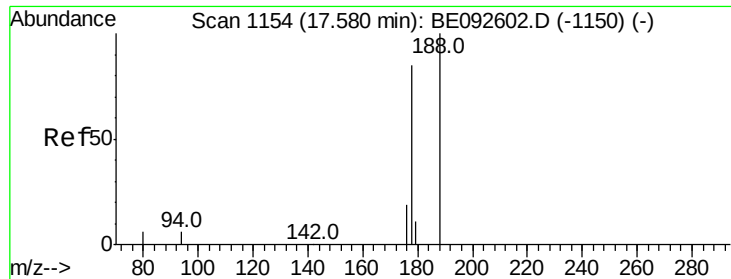
Delta R.T. -0.02 min

Lab File: BE092610.D

Acq: 19 Dec 2016 16:38

Tgt Ion:	266	Resp:	5731
Ion Ratio	Lower	Upper	
266	100		
268	60.0	62.5	93.7#
264	63.8	57.2	85.8





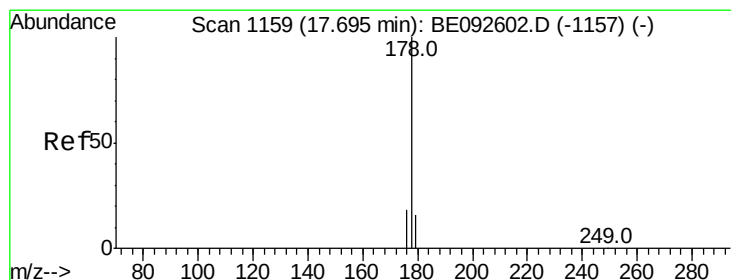
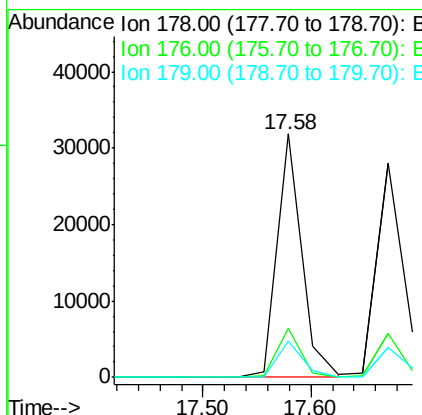
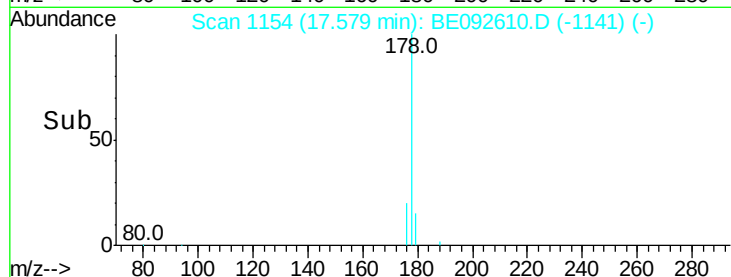
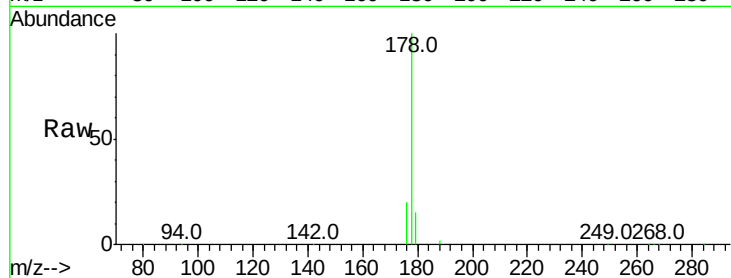
#21
Phenanthrene
Concen: 4.55 ng
RT: 17.58 min Scan# 1154
Delta R.T. -0.00 min
Lab File: BE092610.D
Acq: 19 Dec 2016 16:38

Instrument :
BNA_E
ClientSampleId :
PB95417BS

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.8	23.8
179	15.2	16.0	24.0

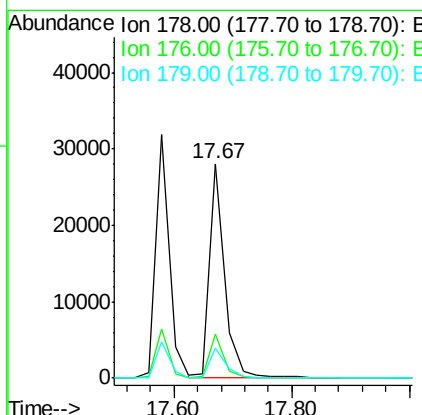
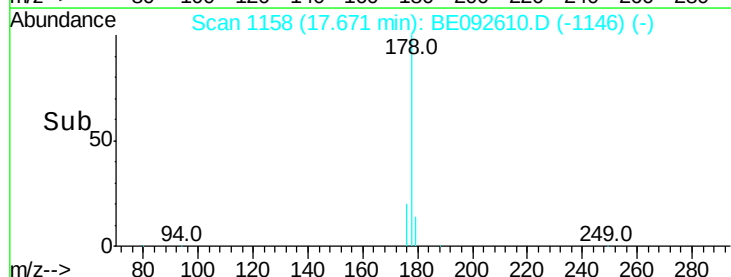
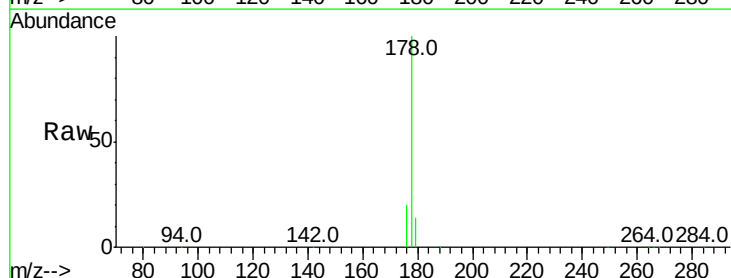
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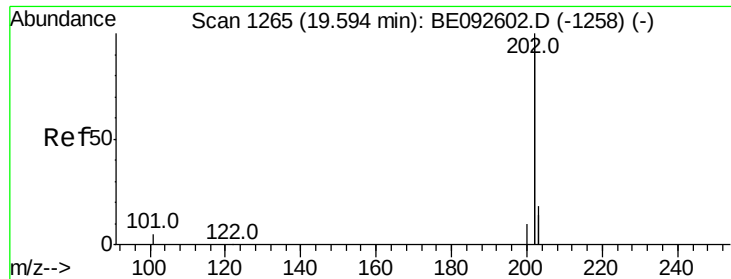
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#22
Anthracene
Concen: 4.83 ng
RT: 17.67 min Scan# 1158
Delta R.T. -0.02 min
Lab File: BE092610.D
Acq: 19 Dec 2016 16:38

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.0	22.4
179	14.8	12.2	18.2





#23

Fluoranthene

Concen: 4.12 ng

RT: 19.58 min Scan# 1264

Delta R.T. -0.02 min

Lab File: BE092610.D

Acq: 19 Dec 2016 16:38

Instrument :

BNA_E

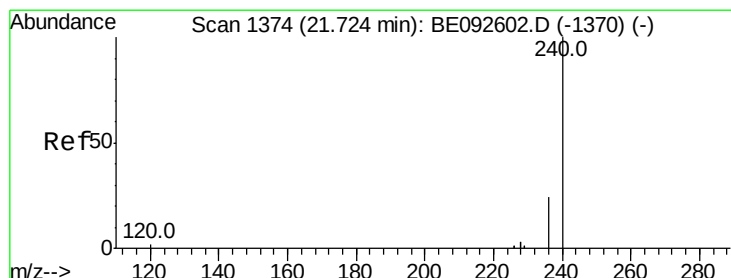
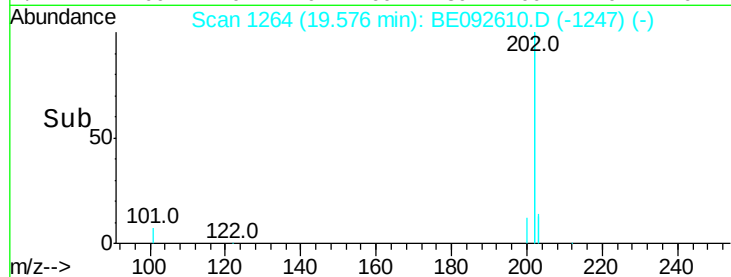
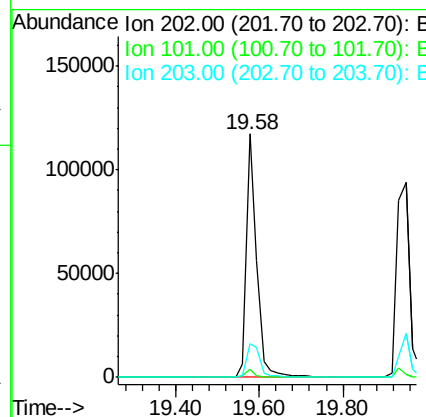
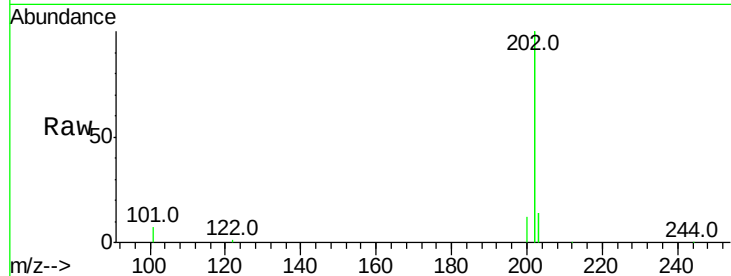
ClientSampleId :

PB95417BS

Tot Ion:	202	Resp:	199572
Ion Ratio	Lower	Upper	
202	100		
101	3.0	2.2	3.4
203	17.4	13.7	20.5

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#24

Chrysene-d12

Concen: 5.00 ng

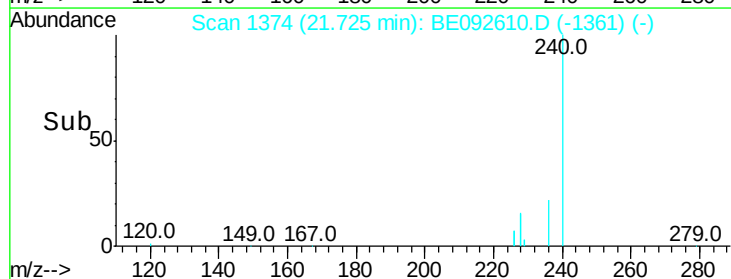
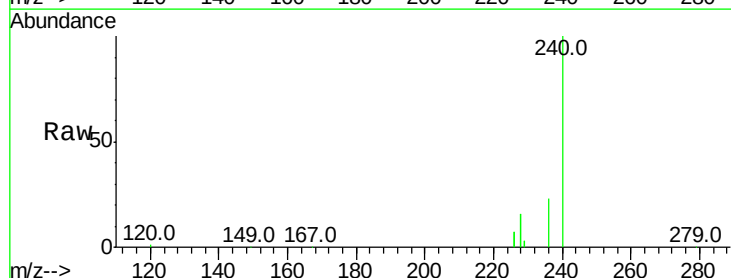
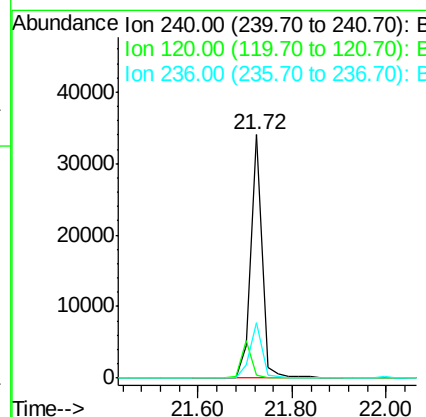
RT: 21.72 min Scan# 1374

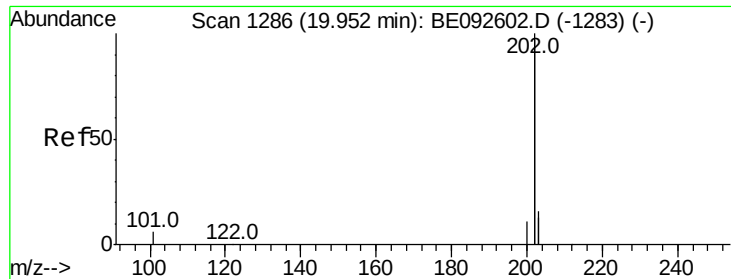
Delta R.T. 0.00 min

Lab File: BE092610.D

Acq: 19 Dec 2016 16:38

Tgt Ion:	240	Resp:	56053
Ion Ratio	Lower	Upper	
240	100		
120	1.0	2.6	4.0#
236	22.6	24.6	37.0#





#25

Pvrene

Concen: 4.18 ng

RT: 19.95 min Scan# 1286

Delta R.T. -0.00 min

Lab File: BE092610.D

Acq: 19 Dec 2016 16:38

Instrument :

BNA_E

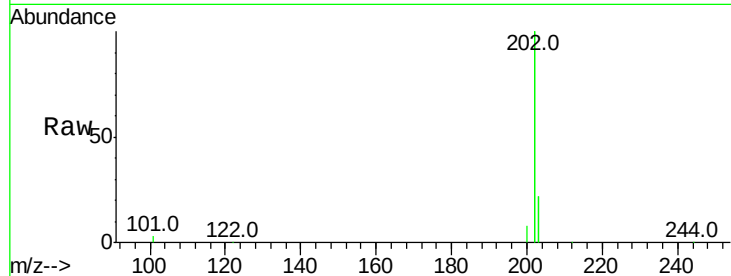
ClientSampleId :

PB95417BS

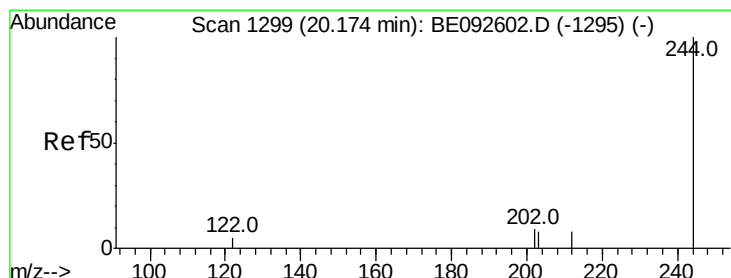
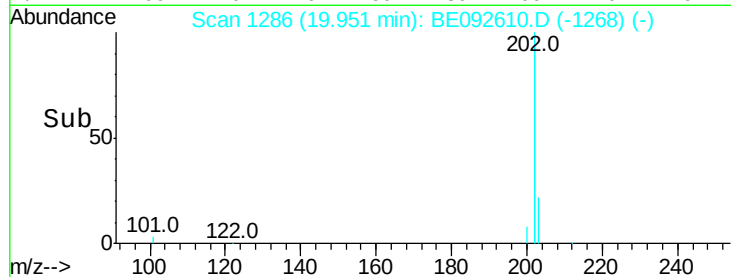
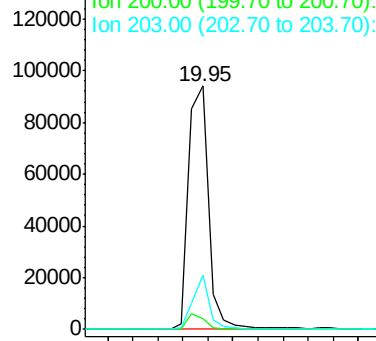
Tot Ion:	202	Resp:	206218
Ion Ratio	Lower	Upper	
202	100		
200	5.4	4.2	6.4
203	18.0	13.9	20.9

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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#26

Terphenyl-d14

Concen: 4.56 ng

RT: 20.16 min Scan# 1298

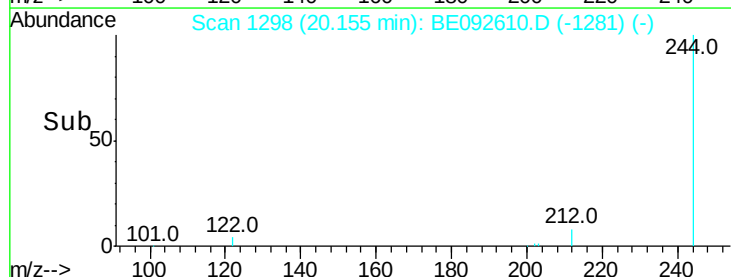
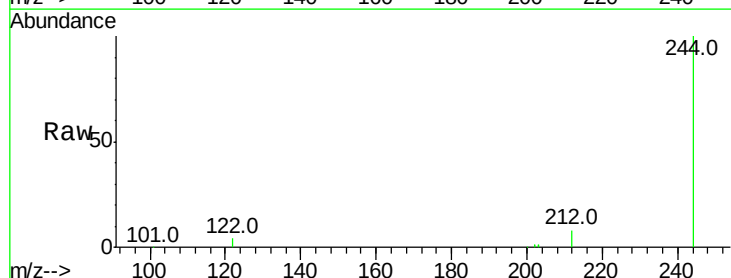
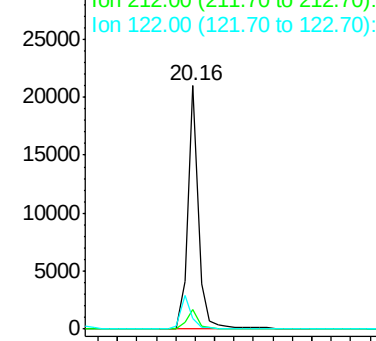
Delta R.T. -0.02 min

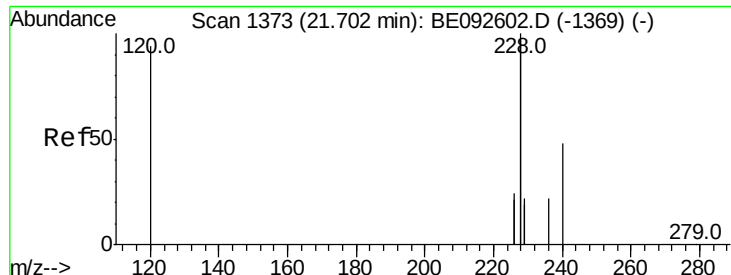
Lab File: BE092610.D

Acq: 19 Dec 2016 16:38

Tgt Ion:	244	Resp:	31322
Ion Ratio	Lower	Upper	
244	100		
212	8.0	6.7	10.1
122	4.5	3.6	5.4

Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





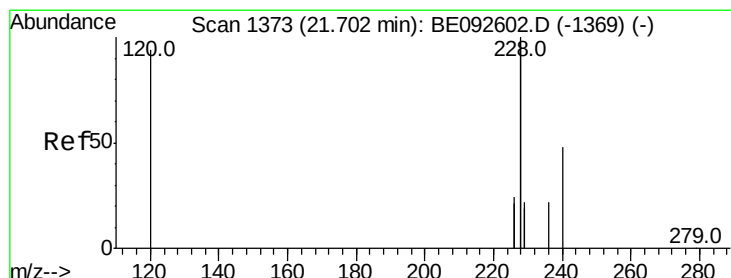
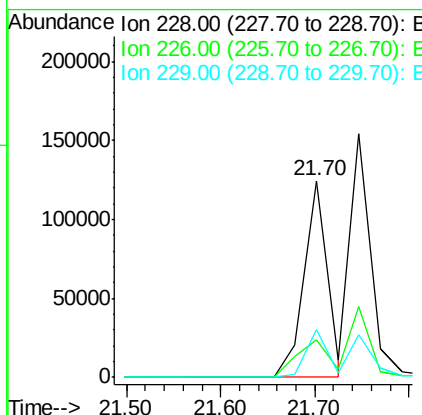
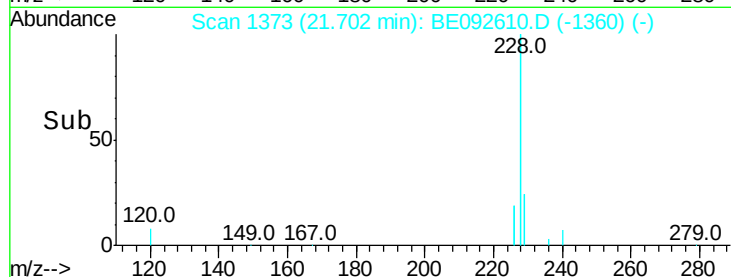
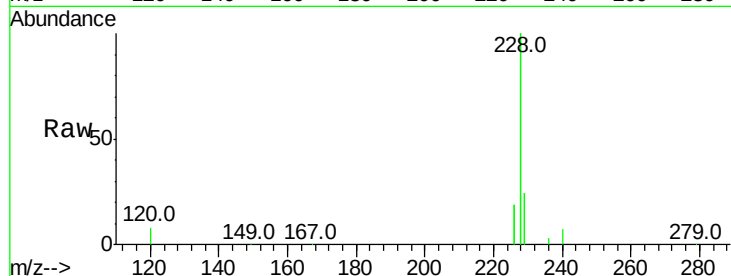
#27
Benzo(a)anthracene
Concen: 4.18 ng
RT: 21.70 min Scan# 1373
Delta R.T. 0.00 min
Lab File: BE092610.D
Acq: 19 Dec 2016 16:38

Instrument :
BNA_E
ClientSampleId :
PB95417BS

Tot Ion	Ratio	Lower	Upper
228	100		
226	18.9	23.6	35.4#
229	24.4	13.3	19.9#

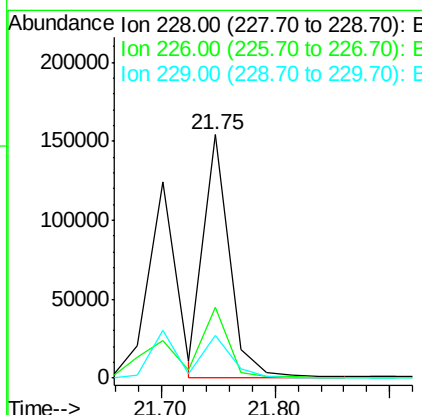
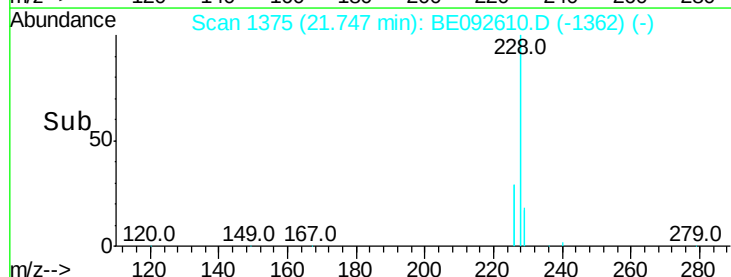
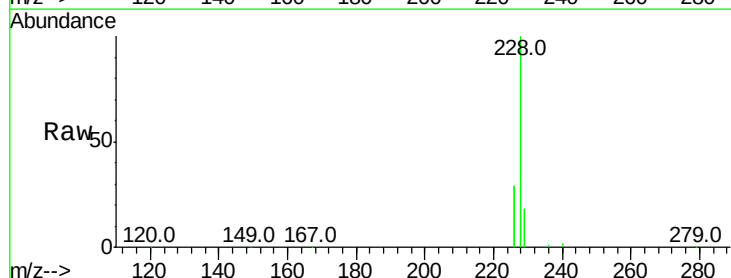
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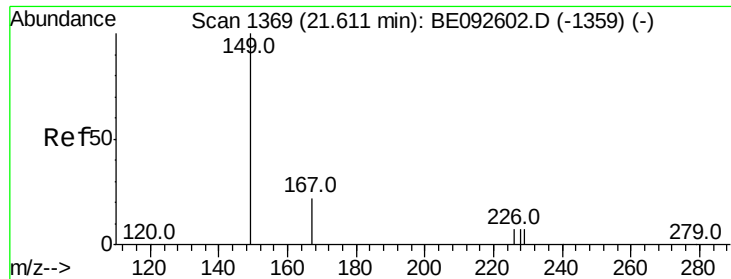
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#28
Chrysene
Concen: 4.21 ng m
RT: 21.75 min Scan# 1375
Delta R.T. 0.00 min
Lab File: BE092610.D
Acq: 19 Dec 2016 16:38

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.0	36.3	54.5#
229	17.5	10.6	16.0#





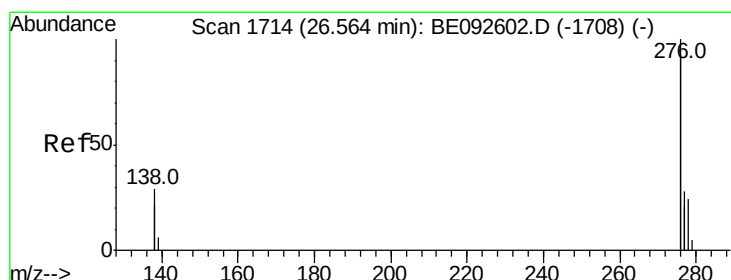
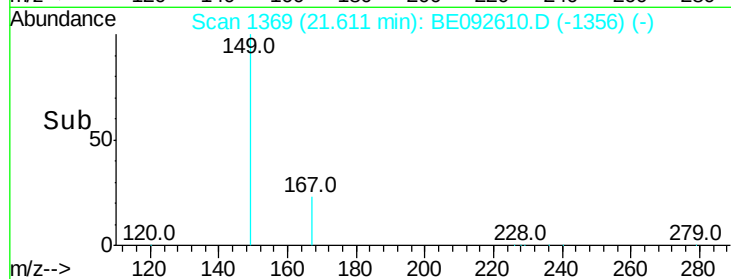
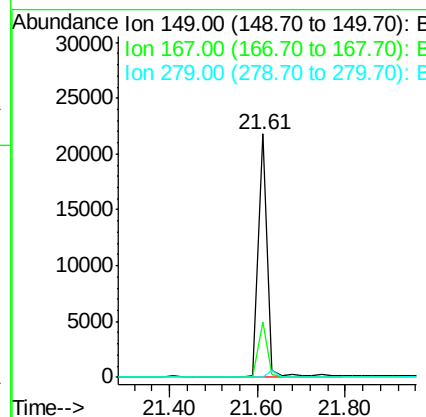
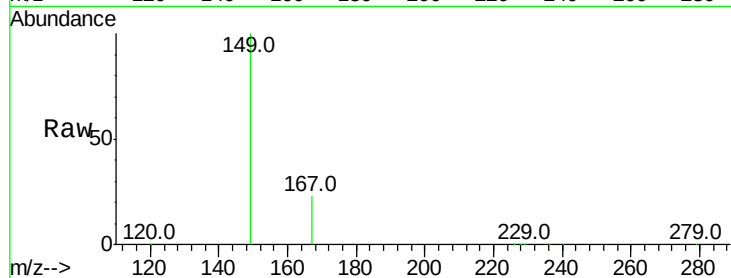
#29
 Bis(2-ethylhexyl)phthalate
 Concen: 4.09 ng
 RT: 21.61 min Scan# 1369
 Delta R.T. 0.00 min
 Lab File: BE092610.D
 Acq: 19 Dec 2016 16:38

Instrument :
 BNA_E
 ClientSampleId :
 PB95417BS

Tot Ion	Ratio	Resp	Lower	Upper
149	100	30964		
167	22.7		16.0	24.0
279	0.0		16.0	24.0

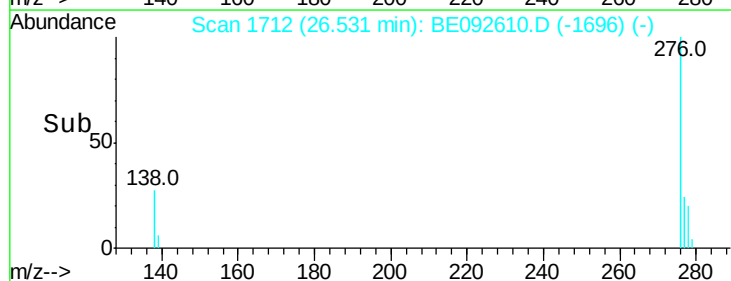
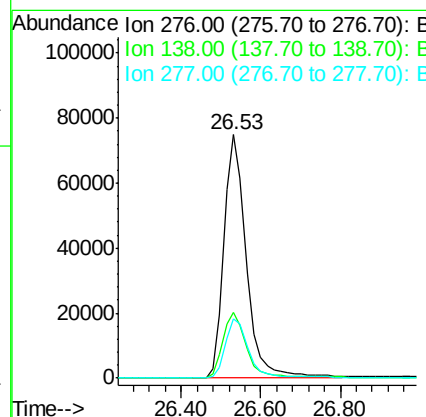
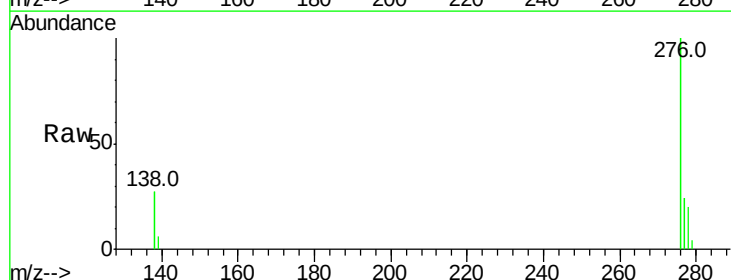
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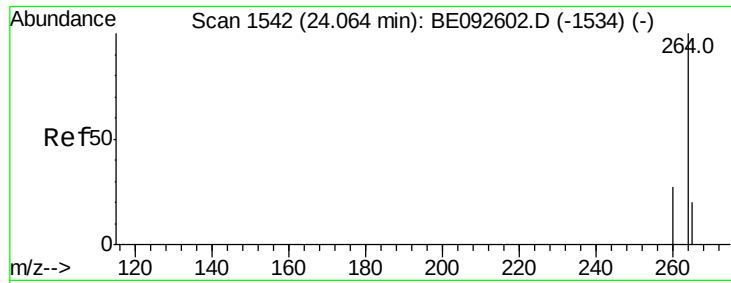
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#30
 Indeno(1,2,3-cd)pyrene
 Concen: 5.49 ng
 RT: 26.53 min Scan# 1712
 Delta R.T. -0.03 min
 Lab File: BE092610.D
 Acq: 19 Dec 2016 16:38

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	289343		
138	28.1		20.3	30.5
277	24.7		19.7	29.5





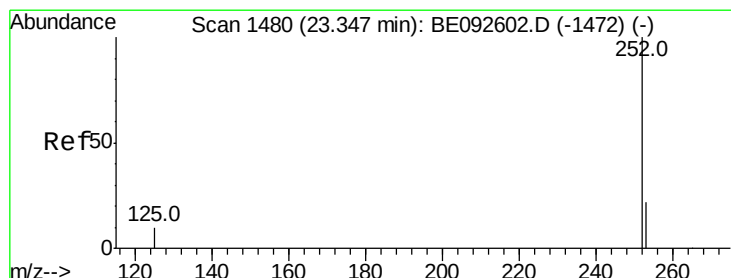
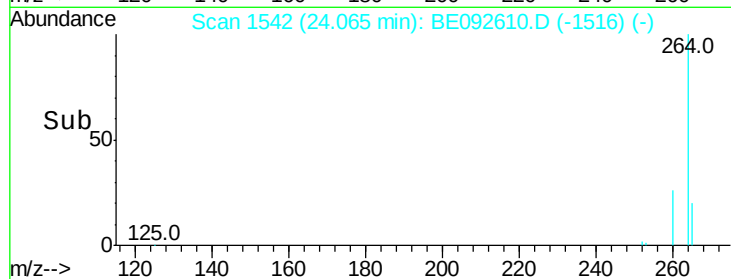
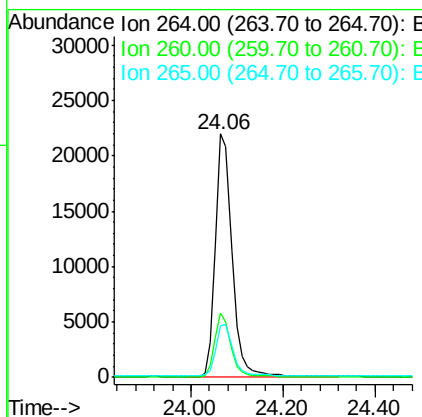
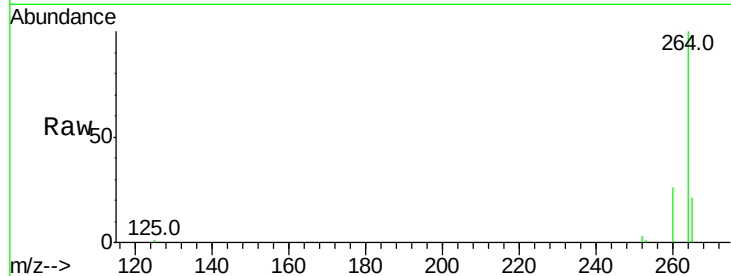
#31
Pervlene-d12
Concen: 5.00 ng
RT: 24.06 min Scan# 1542
Delta R.T. 0.00 min
Lab File: BE092610.D
Acq: 19 Dec 2016 16:38

Instrument :
BNA_E
ClientSampleId :
PB95417BS

Tot Ion	Ratio	Lower	Upper
264	100		
260	26.3	20.1	30.1
265	21.0	17.9	26.9

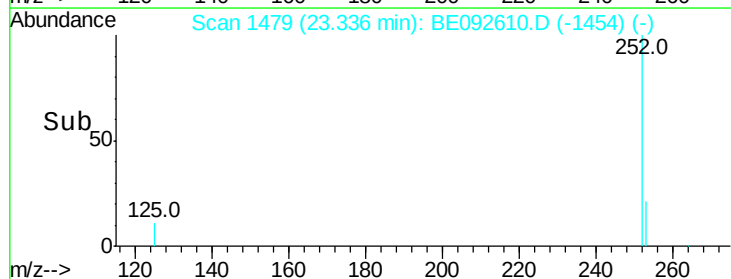
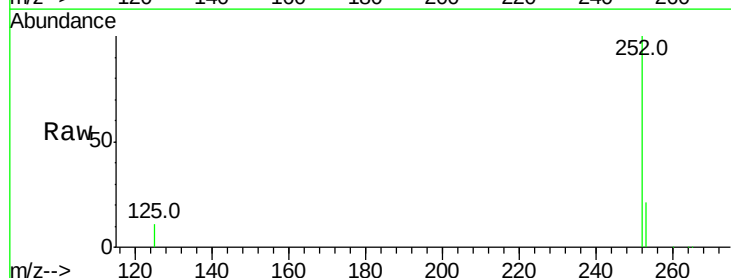
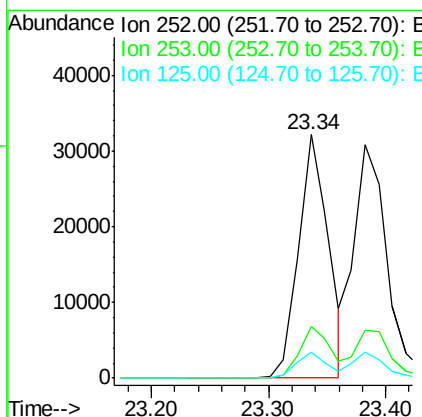
Manual Integrations
APPROVED

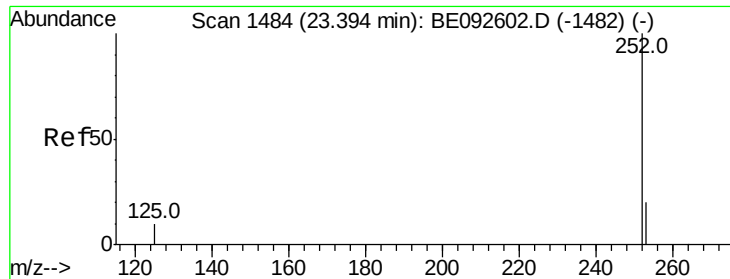
sohil
12/20/2016 6:33:43 PM



#32
Benzo(b)fluoranthene
Concen: 4.44 ng
RT: 23.34 min Scan# 1479
Delta R.T. -0.01 min
Lab File: BE092610.D
Acq: 19 Dec 2016 16:38

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.4	18.7	28.1
125	10.7	10.5	15.7





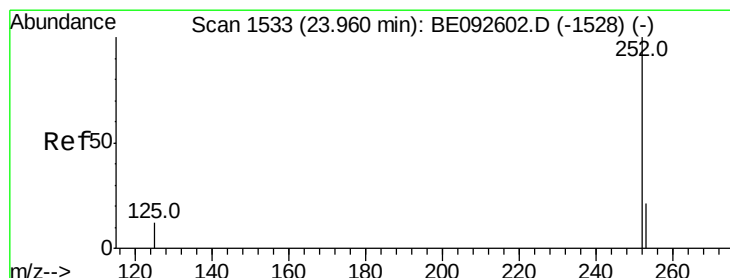
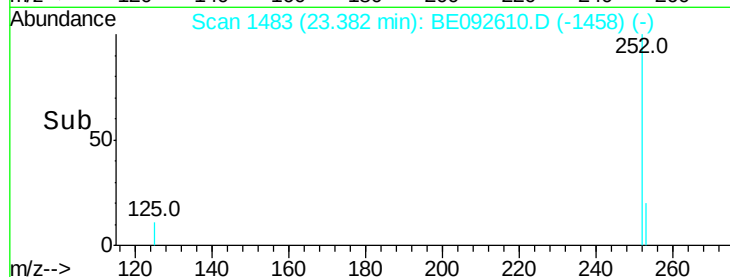
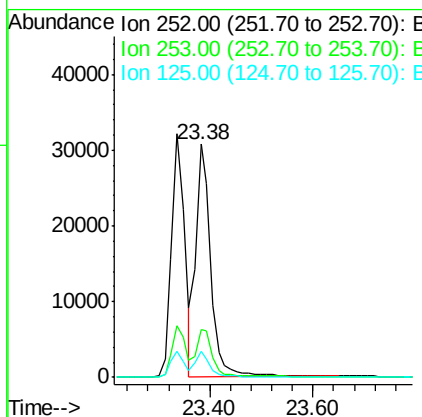
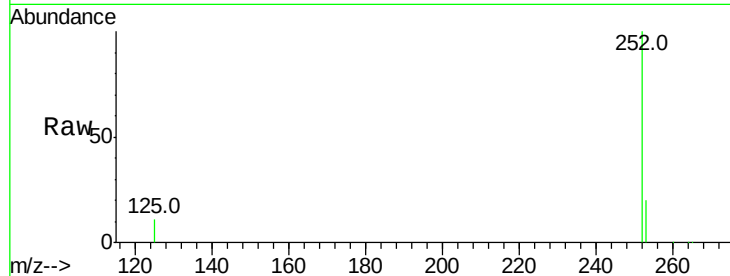
#33
Benzo(k)fluoranthene
Concen: 4.33 ng
RT: 23.38 min Scan# 1483
Delta R.T. -0.01 min
Lab File: BE092610.D
Acq: 19 Dec 2016 16:38

Instrument :
BNA_E
ClientSampleId :
PB95417BS

Tot Ion	Ratio	Lower	Upper
252	100		
253	20.4	20.3	30.5
125	11.2	9.6	14.4

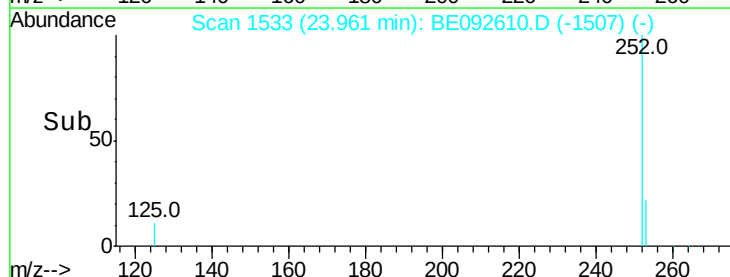
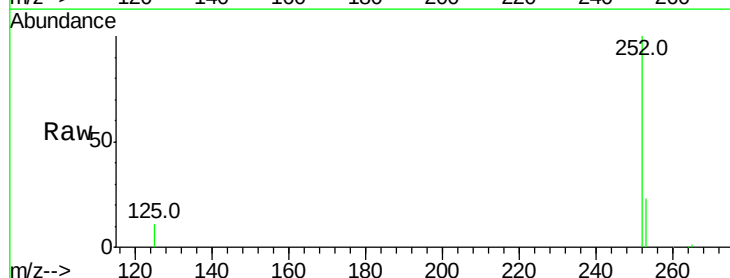
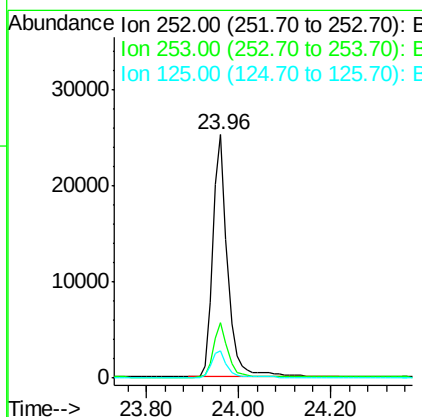
Manual Integrations
APPROVED

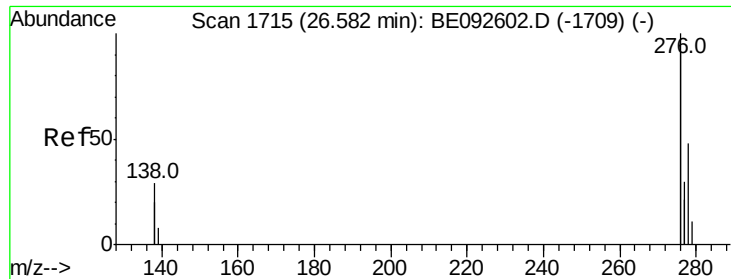
sohil
12/20/2016 6:33:43 PM



#34
Benzo(a)pyrene
Concen: 4.65 ng
RT: 23.96 min Scan# 1533
Delta R.T. 0.00 min
Lab File: BE092610.D
Acq: 19 Dec 2016 16:38

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	19.0	28.6
125	11.3	11.8	17.8





#35

Dibenzo(a,h)anthracene

Concen: 5.14 ng

RT: 26.57 min Scan# 1714

Delta R.T. -0.02 min

Lab File: BE092610.D

Acq: 19 Dec 2016 16:38

Instrument :

BNA_E

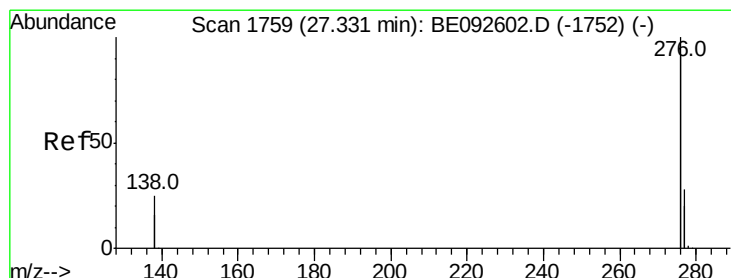
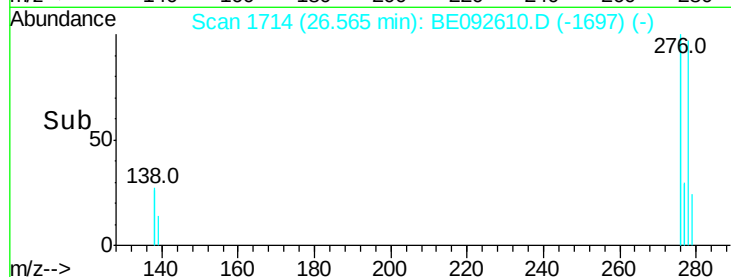
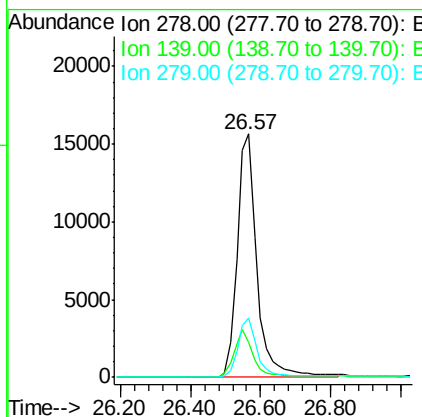
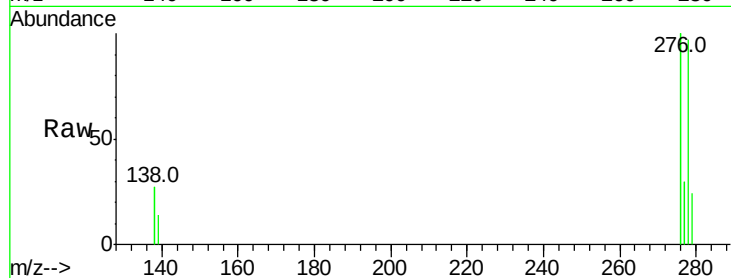
ClientSampleId :

PB95417BS

Tot Ion:	278	Resp:	59984
Ion Ratio	Lower	Upper	
278	100		
139	14.5	13.8	20.8
279	24.5	21.4	32.2

Manual Integrations
APPROVED

sohil
12/20/2016 6:33:43 PM



#36

Benzo(g,h,i)perylene

Concen: 5.04 ng

RT: 27.30 min Scan# 1757

Delta R.T. -0.03 min

Lab File: BE092610.D

Acq: 19 Dec 2016 16:38

Tgt Ion:	276	Resp:	251837
Ion Ratio	Lower	Upper	
276	100		
277	23.4	19.8	29.8
138	23.8	19.8	29.6

