

Data Path : Z:\HPCHEM1\BNA_E\Data\BE051017\
 Data File : BE092976.D
 Acq On : 10 May 2017 11:12
 Operator : SJ/MA
 Sample : I2872-15DL 200X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PT-BNA-SOILDL

Quant Time: May 10 11:52:47 2017
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE051017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 10 03:43:15 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.77	152	858	0.40	ng	0.00
7) Naphthalene-d8	10.53	136	3554	0.40	ng	0.00
13) Acenaphthene-d10	14.39	164	1787	0.40	ng	0.00
19) Phenanthrene-d10	17.13	188	4501	0.40	ng	0.00
26) Chrysene-d12	21.28	240	4964	0.40	ng	0.00
33) Perylene-d12	23.70	264	4308	0.40	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.35	112	1236	0.51	ng	0.00
5) Phenol-d6	6.95	99	1675	0.56	ng	0.00
8) Nitrobenzene-d5	8.90	82	862	0.31	ng	0.00
11) 2-Methylnaphthalene-d10	0.00	152	0	0.00	ng	0.00
14) 2,4,6-Tribromophenol	15.88	330	212	0.46	ng	0.00
15) 2-Fluorobiphenyl	13.01	172	2520	0.38	ng	0.00
24) Fluoranthene-d10	0.00	212	0	0.00	ng	0.00
28) Terphenyl-d14	19.74	244	2601	0.34	ng	0.00

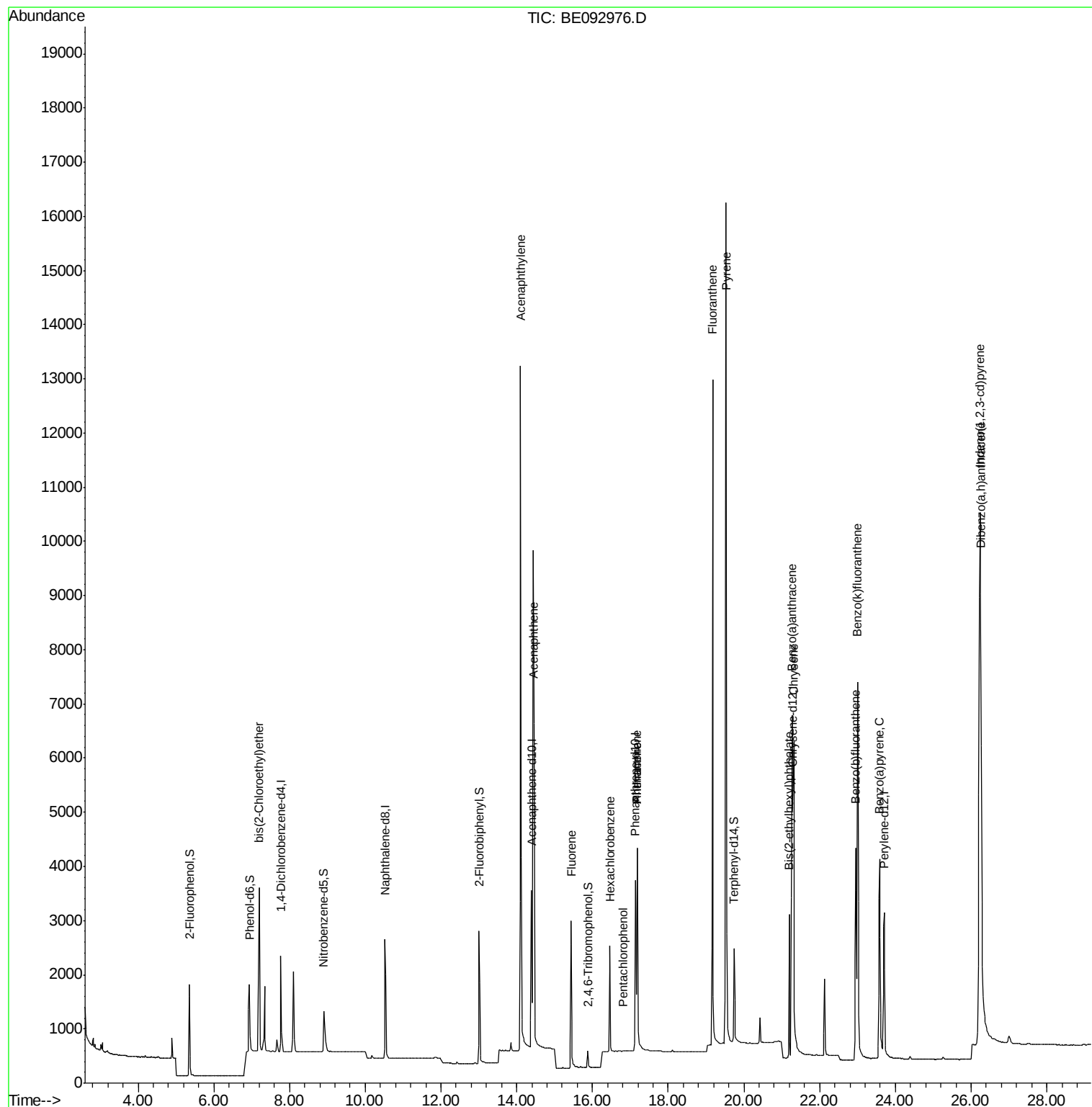
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) bis(2-Chloroethyl)ether	7.20	93	2947	1.00	ng	# 99
16) Acenaphthylene	14.10	152	17715	0.59	ng	100
17) Acenaphthene	14.46	154	2088	0.37	ng	98
18) Fluorene	15.44	166	2256	0.33	ng	99
20) Hexachlorobenzene	16.47	284	2410	1.14	ng	# 100
21) Pentachlorophenol	16.81	266	4	0.14	ng	# 82
22) Phenanthrene	17.18	178	4593	0.36	ng	99
23) Anthracene	17.18	178	4766	0.47	ng	98
25) Fluoranthene	19.17	202	15921	0.26	ng	# 99
27) Pyrene	19.53	202	19598	0.30	ng	# 98
29) Benzo(a)anthracene	21.27	228	5577	0.47	ng	98
30) Chrysene	21.32	228	8034	0.51	ng	98
31) Bis(2-ethylhexyl)phthalate	21.20	149	2555	0.58	ng	98
32) Indeno(1,2,3-cd)pyrene	26.24	276	23391	0.43	ng	100
34) Benzo(b)fluoranthene	22.95	252	5568	0.42	ng	98
35) Benzo(k)fluoranthene	23.00	252	10769	0.76	ng	94
36) Benzo(a)pyrene	23.59	252	6302	0.51	ng	97
37) Dibenzo(a,h)anthracene	26.25	278	5972	0.49	ng	97

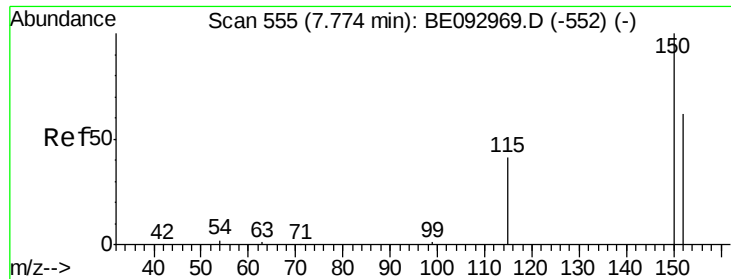
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.40 ng

RT: 7.77 min Scan# 555

Delta R.T. 0.00 min

Lab File: BE092976.D

Acq: 10 May 2017 11:12

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOILDL

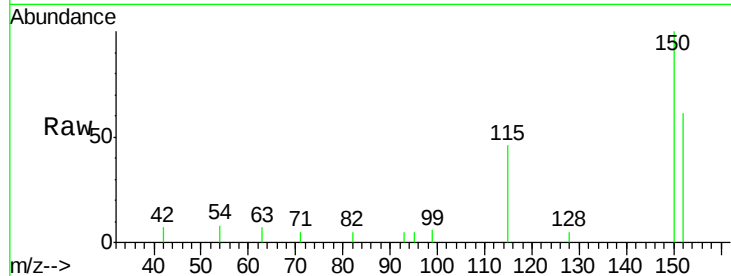
Tgt Ion:152 Resp: 858

Ion Ratio Lower Upper

152 100

150 162.8 125.1 187.7

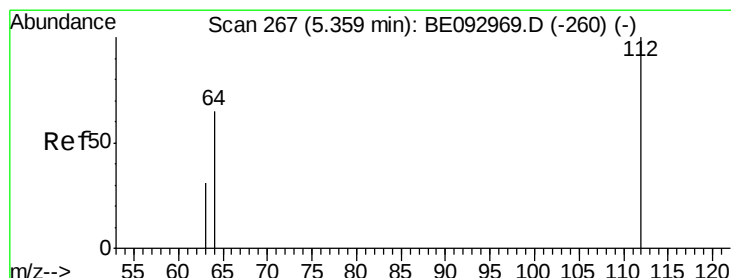
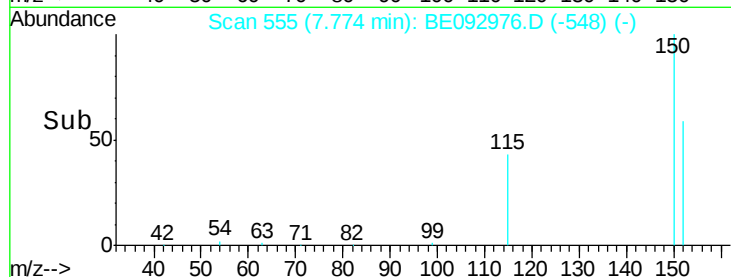
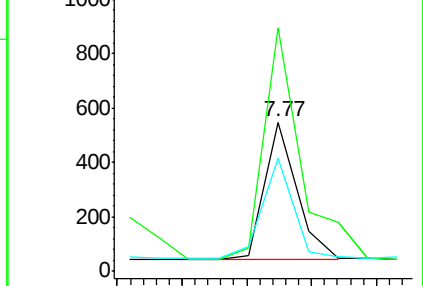
115 75.2 55.7 83.5



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#4

2-Fluorophenol

Concen: 0.51 ng

RT: 5.35 min Scan# 266

Delta R.T. -0.00 min

Lab File: BE092976.D

Acq: 10 May 2017 11:12

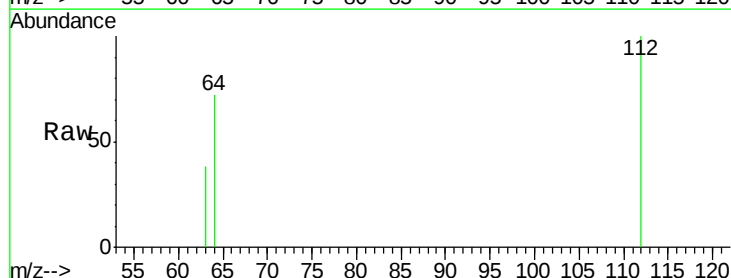
Tgt Ion:112 Resp: 1236

Ion Ratio Lower Upper

112 100

64 71.5 56.4 84.6

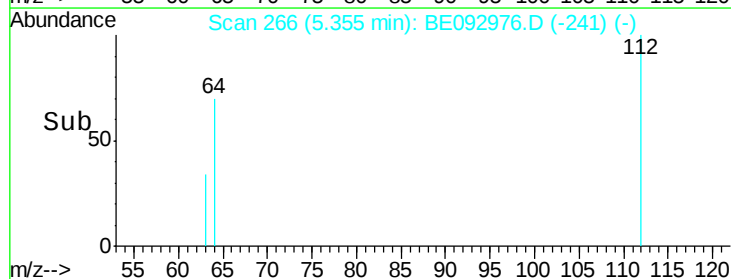
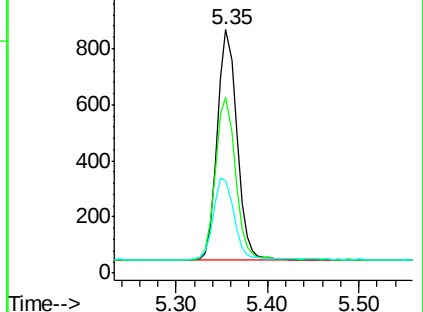
63 36.8 29.3 43.9

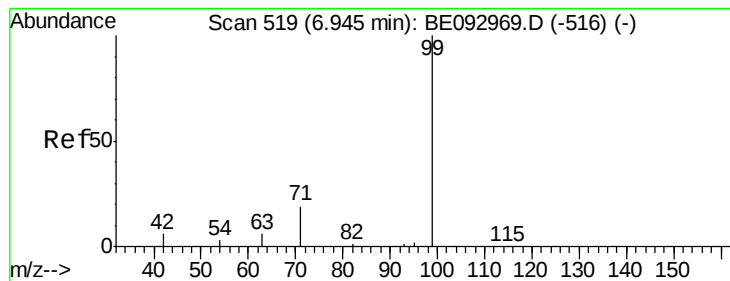


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.56 ng

RT: 6.95 min Scan# 519

Delta R.T. 0.00 min

Lab File: BE092976.D

Acq: 10 May 2017 11:12

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOILDL

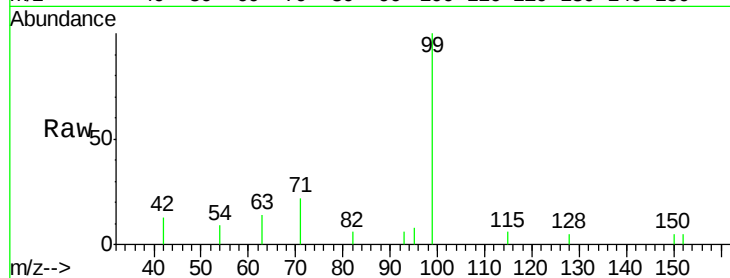
Tgt Ion: 99 Resp: 1675

Ion Ratio Lower Upper

99 100

42 0.0 0.0 0.0

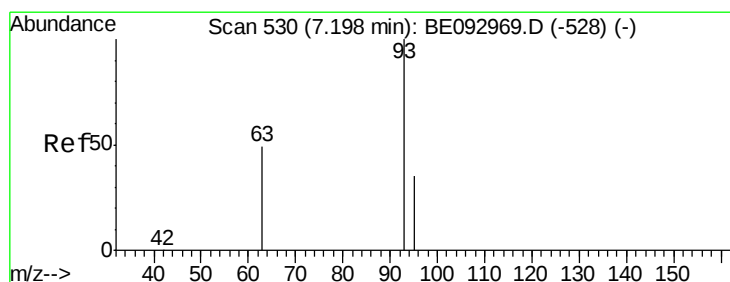
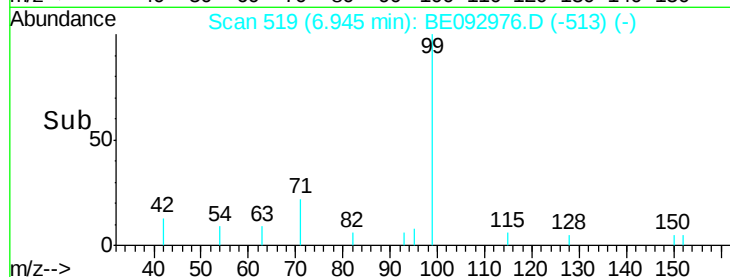
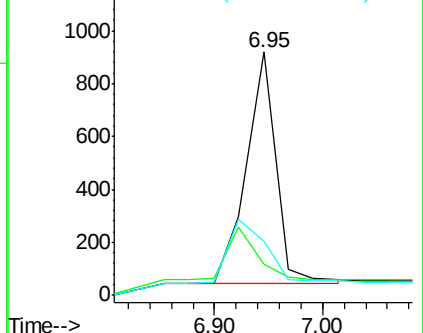
71 0.0 0.0 0.0



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#6

bis(2-Chloroethyl)ether

Concen: 1.00 ng

RT: 7.20 min Scan# 530

Delta R.T. 0.00 min

Lab File: BE092976.D

Acq: 10 May 2017 11:12

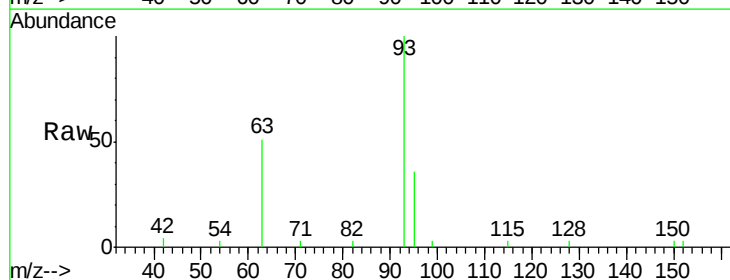
Tgt Ion: 93 Resp: 2947

Ion Ratio Lower Upper

93 100

63 0.0 0.0 0.0

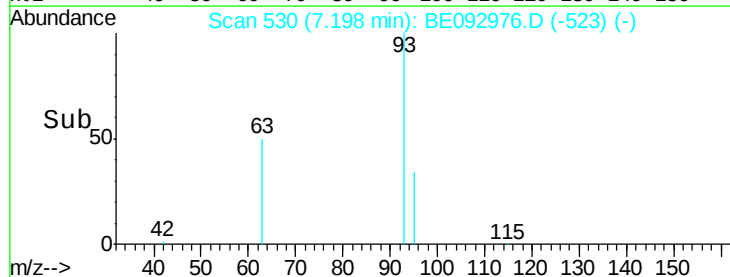
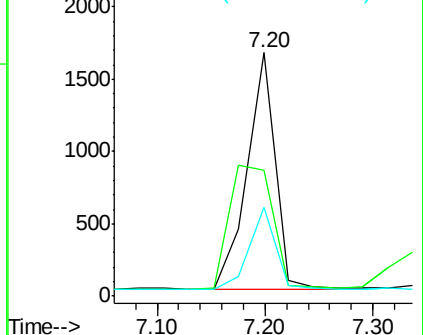
95 32.2 25.4 38.0

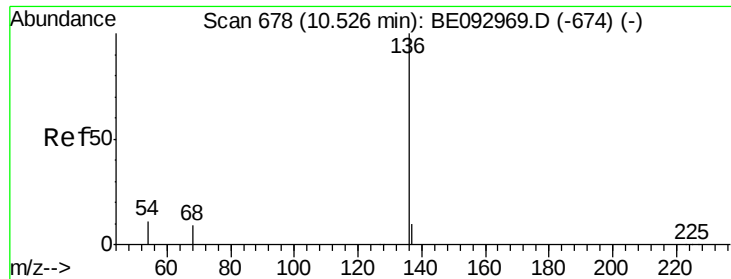


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 0.40 ng

RT: 10.53 min Scan# 678

Delta R.T. -0.00 min

Lab File: BE092976.D

Acq: 10 May 2017 11:12

Instrument :

BNA_E

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PT-BNA-SOILD

Tgt Ion: 136 Resp: 3554

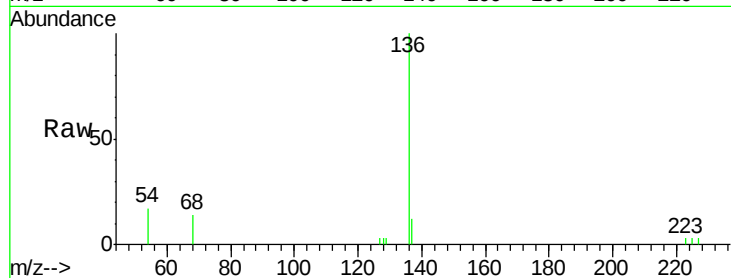
Ion Ratio Lower Upper

136 100

137 12.1 9.8 14.8

54 17.2 10.3 15.5#

68 14.4 9.0 13.4#

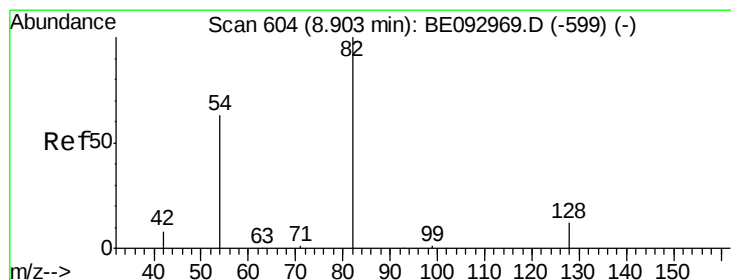
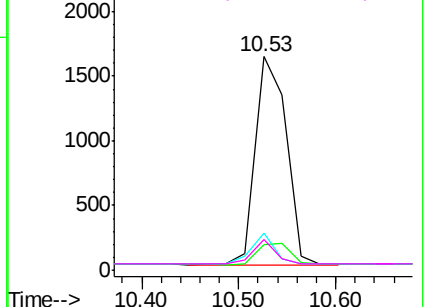
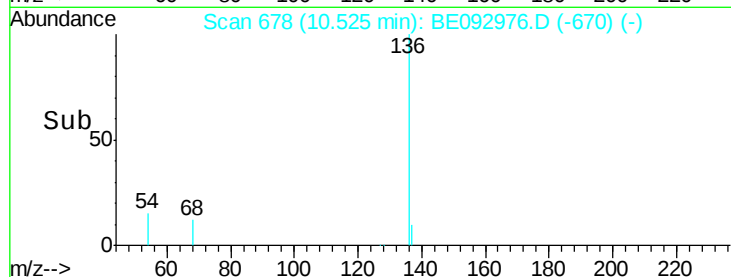


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 0.31 ng

RT: 8.90 min Scan# 604

Delta R.T. 0.00 min

Lab File: BE092976.D

Acq: 10 May 2017 11:12

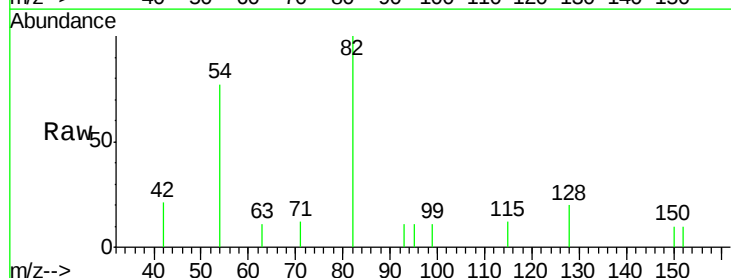
Tgt Ion: 82 Resp: 862

Ion Ratio Lower Upper

82 100

128 19.5 17.0 25.4

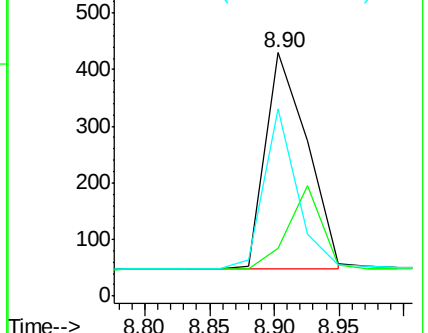
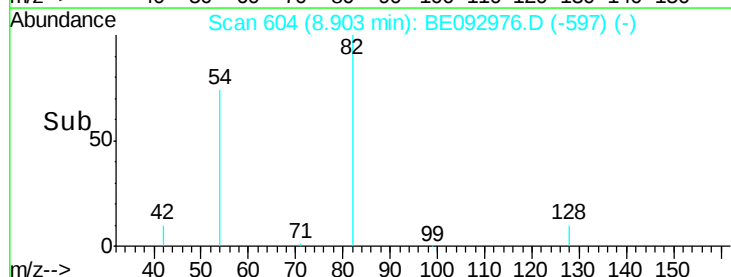
54 77.0 53.8 80.6

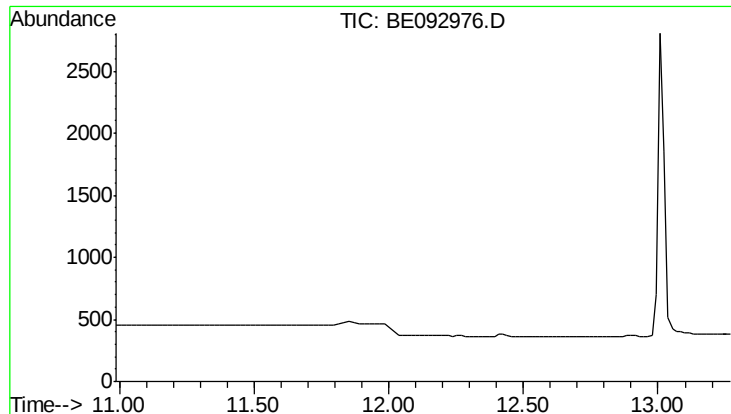


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0

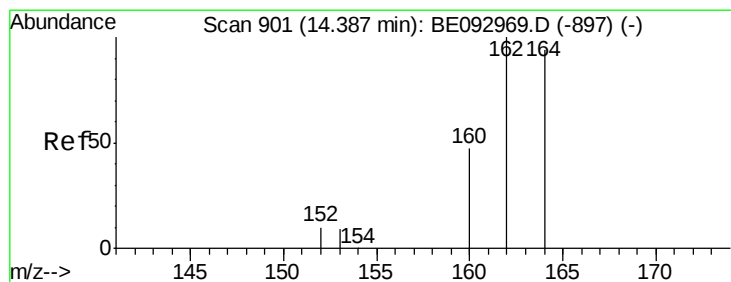
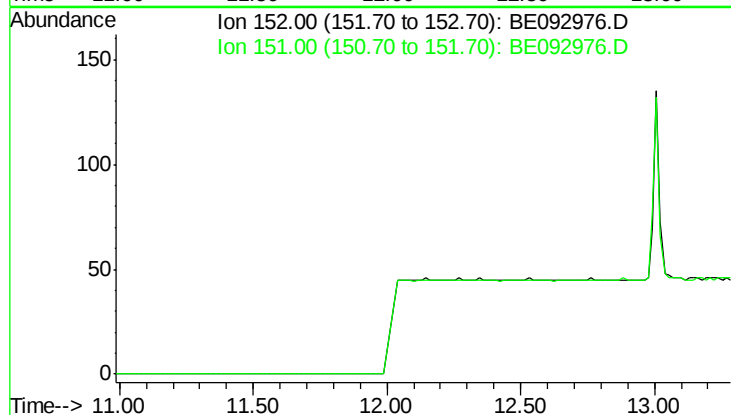




#11
 2-Methylnaphthalene-d10
 Concen: 0.00 ng
 Expected RT: 12.13 min
 Lab File: BE092976.D
 Acq: 10 May 2017 11:12

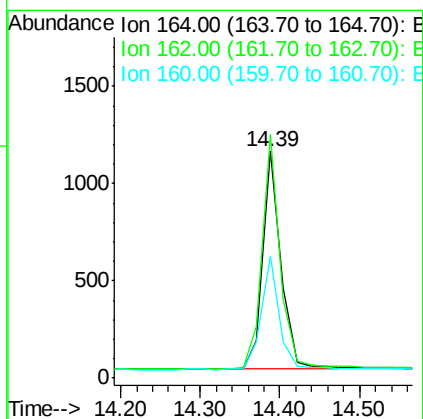
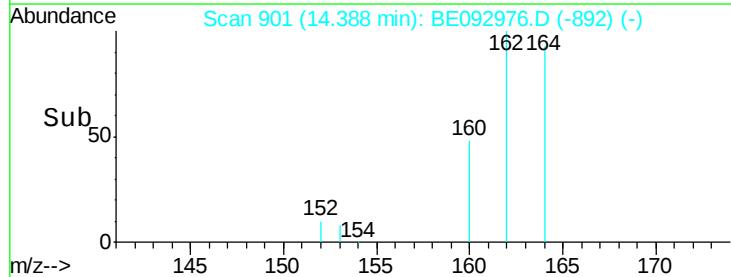
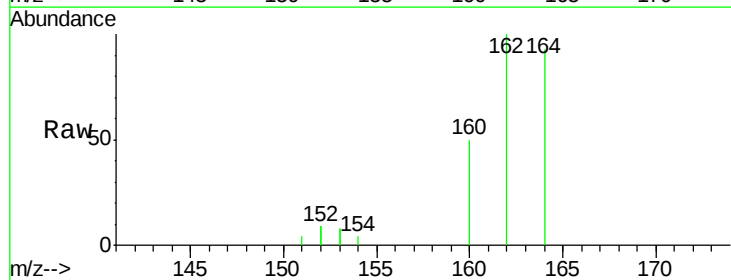
Instrument :
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 PT-BNA-SOILDL

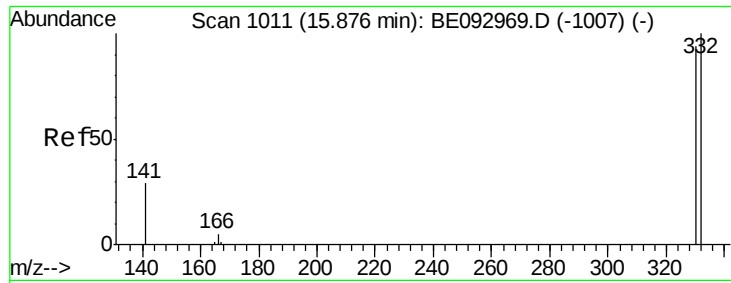
Tgt Ion: 152
 Sig Exp Ratio
 152 100
 151 18.9



#13
 Acenaphthene-d10
 Concen: 0.40 ng
 RT: 14.39 min Scan# 901
 Delta R.T. 0.00 min
 Lab File: BE092976.D
 Acq: 10 May 2017 11:12

Tgt Ion: 164 Resp: 1787
 Ion Ratio Lower Upper
 164 100
 162 107.6 84.6 127.0
 160 53.7 41.8 62.6

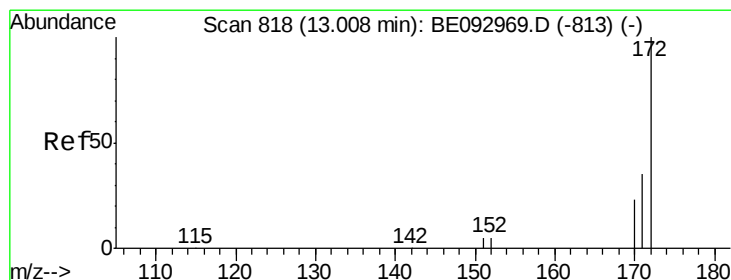
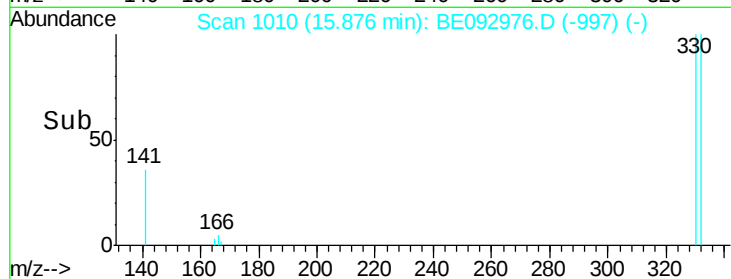
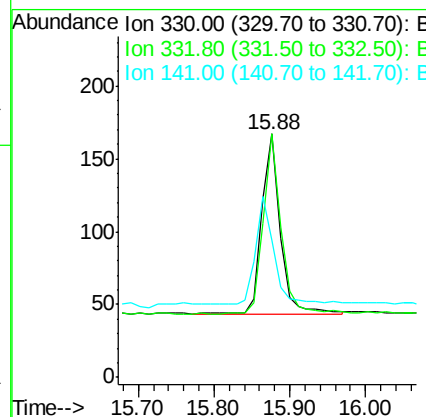
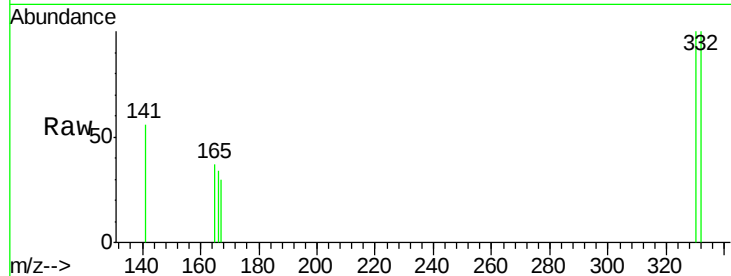




#14
 2,4,6-Tribromophenol
 Concen: 0.46 ng
 RT: 15.88 min Scan# 1010
 Delta R.T. -0.00 min
 Lab File: BE092976.D
 Acq: 10 May 2017 11:12

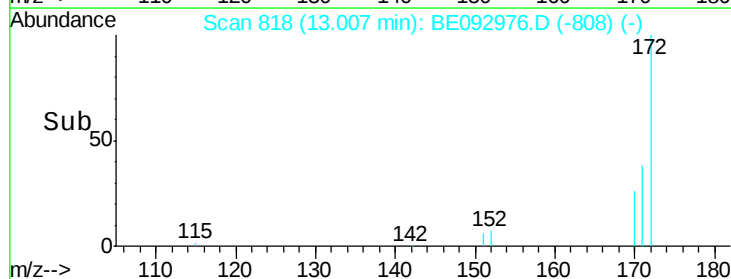
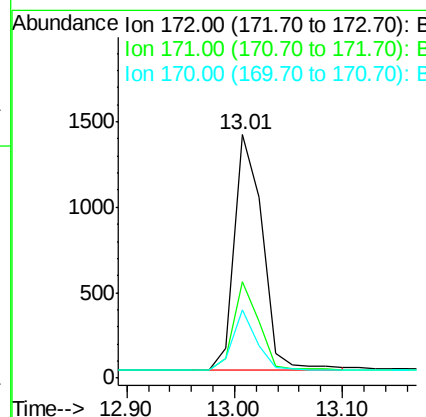
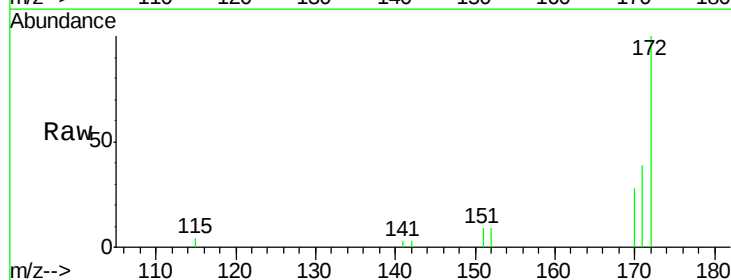
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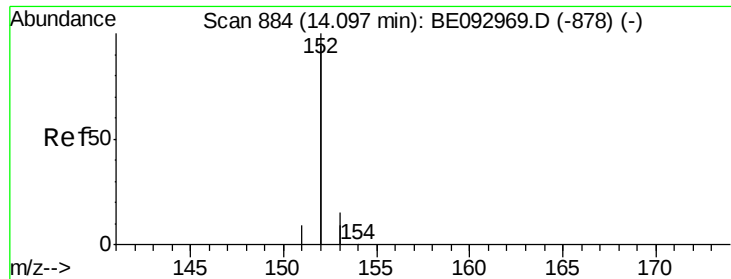
Tgt Ion: 330 Resp: 212
 Ion Ratio Lower Upper
 330 100
 332 96.7 77.7 116.5
 141 58.0 56.2 84.4



#15
 2-Fluorobiphenyl
 Concen: 0.38 ng
 RT: 13.01 min Scan# 818
 Delta R.T. -0.00 min
 Lab File: BE092976.D
 Acq: 10 May 2017 11:12

Tgt Ion: 172 Resp: 2520
 Ion Ratio Lower Upper
 172 100
 171 39.4 29.8 44.6
 170 28.2 20.7 31.1





#16

Acenaphthylene

Concen: 0.59 ng

RT: 14.10 min Scan# 884

Delta R.T. 0.00 min

Lab File: BE092976.D

Acq: 10 May 2017 11:12

Instrument :

BNA_E

ClientSampleId :

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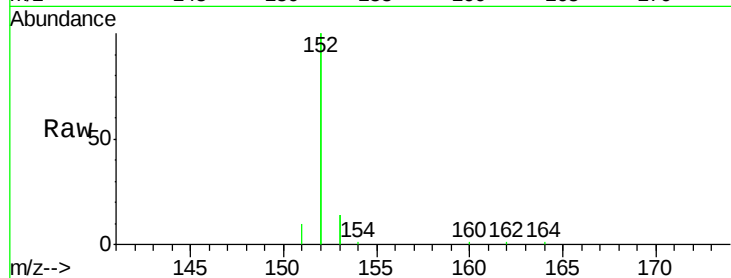
Tgt Ion:152 Resp: 17715

Ion Ratio Lower Upper

152 100

151 4.9 4.0 6.0

153 12.9 10.3 15.5



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

15000

10000

5000

0

Time-->

14.00 14.10 14.20

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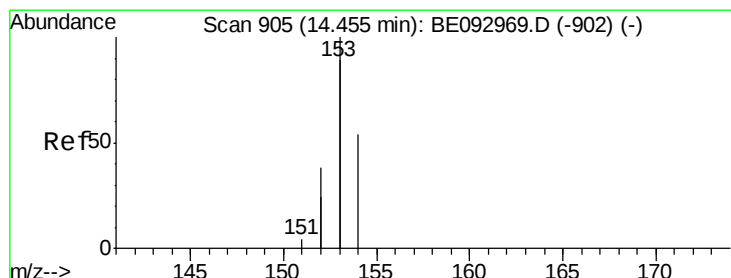
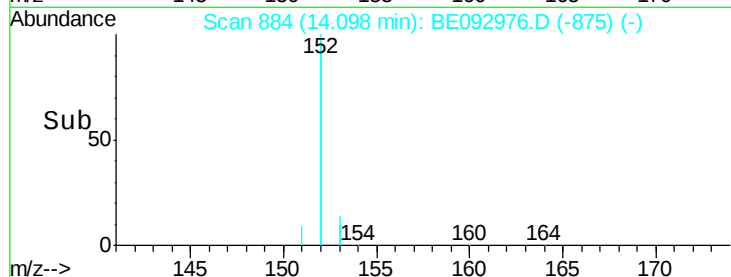
14.10

14.10

14.10

14.10

14.10



#17

Acenaphthene

Concen: 0.37 ng

RT: 14.46 min Scan# 905

Delta R.T. 0.00 min

Lab File: BE092976.D

Acq: 10 May 2017 11:12

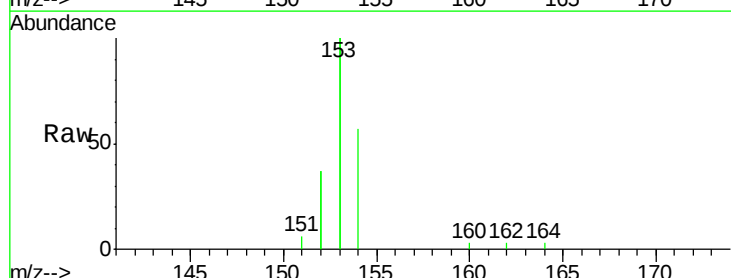
Tgt Ion:154 Resp: 2088

Ion Ratio Lower Upper

154 100

153 458.2 367.8 551.6

152 228.9 188.2 282.2



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

6000

4000

2000

0

Time-->

14.40 14.45 14.50

14.46

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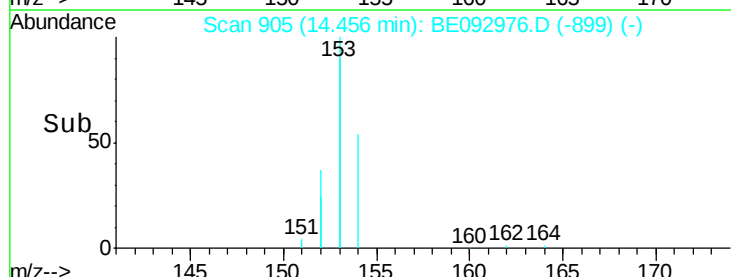
14.46

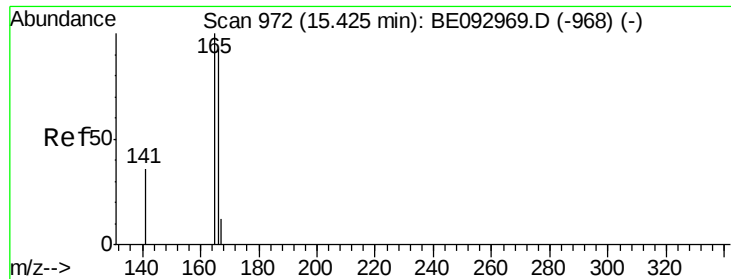
14.46

14.46

14.46

14.46





#18

Fluorene

Concen: 0.33 ng

RT: 15.44 min Scan# 972

Delta R.T. 0.01 min

Lab File: BE092976.D

Acq: 10 May 2017 11:12

Instrument :

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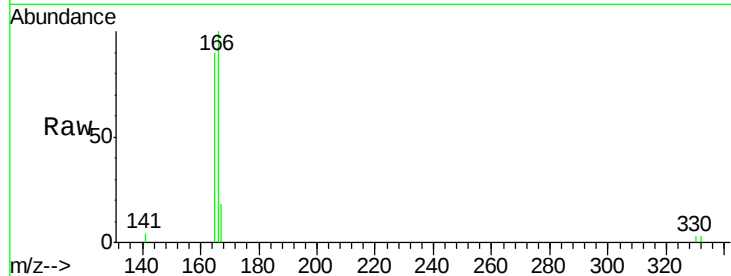
Tgt Ion:166 Resp: 2256

Ion Ratio Lower Upper

166 100

165 99.4 78.6 117.8

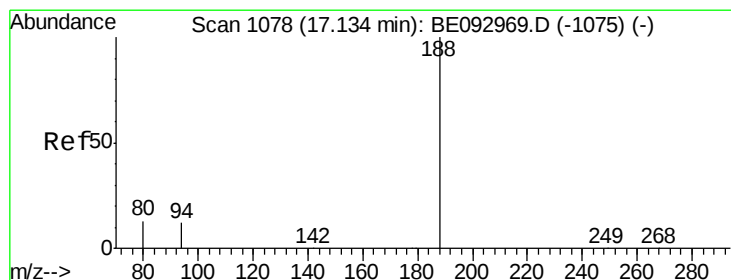
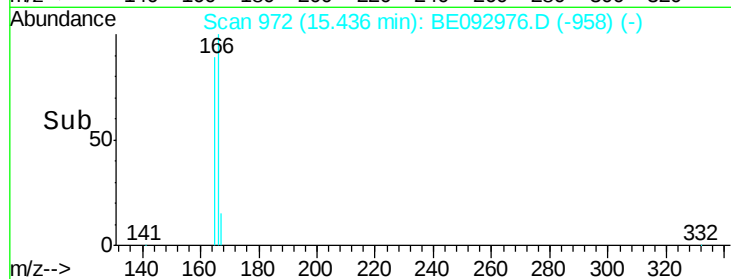
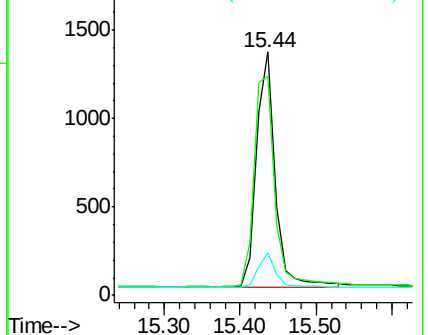
167 13.8 11.1 16.7



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#19

Phenanthrene-d10

Concen: 0.40 ng

RT: 17.13 min Scan# 1077

Delta R.T. 0.00 min

Lab File: BE092976.D

Acq: 10 May 2017 11:12

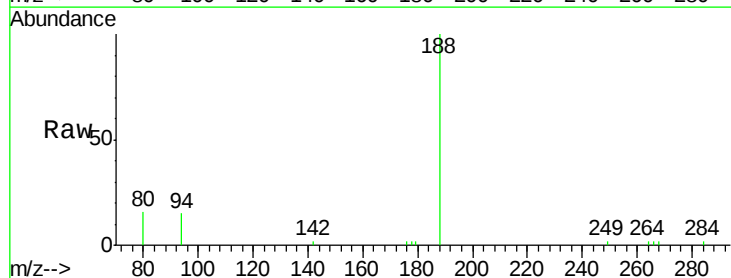
Tgt Ion:188 Resp: 4501

Ion Ratio Lower Upper

188 100

94 15.5 11.3 16.9

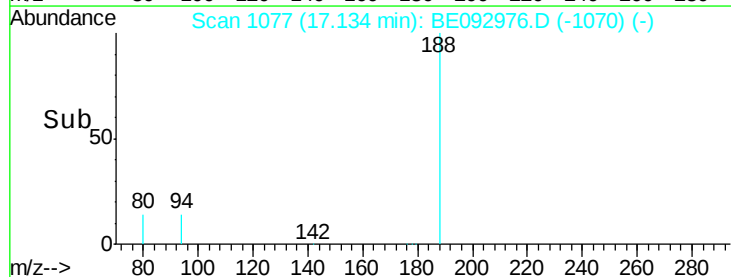
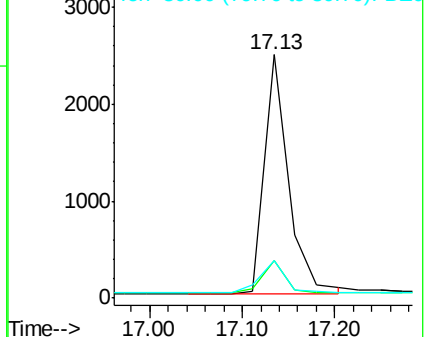
80 15.6 11.7 17.5

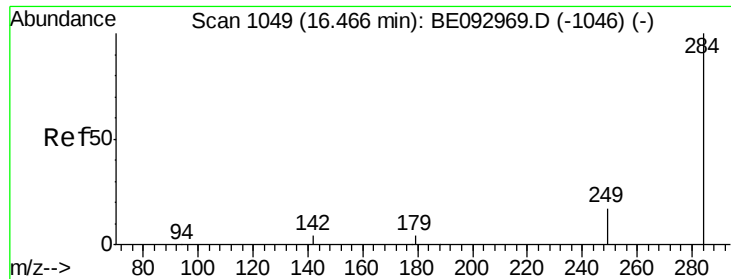


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

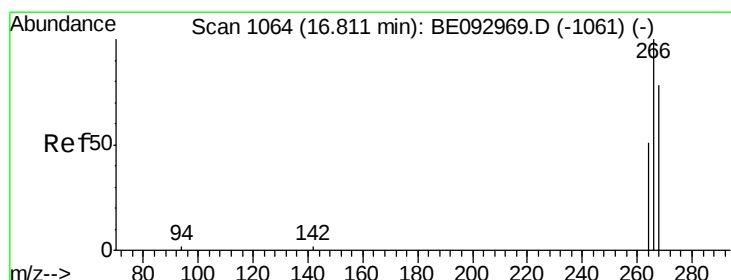
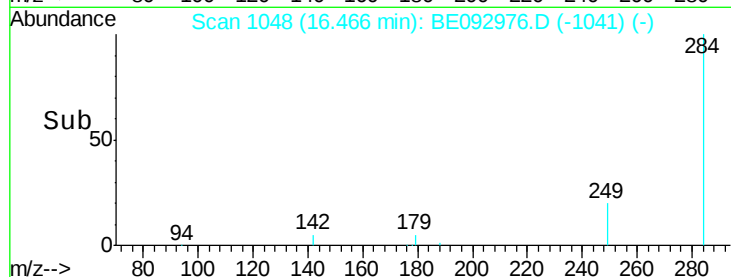
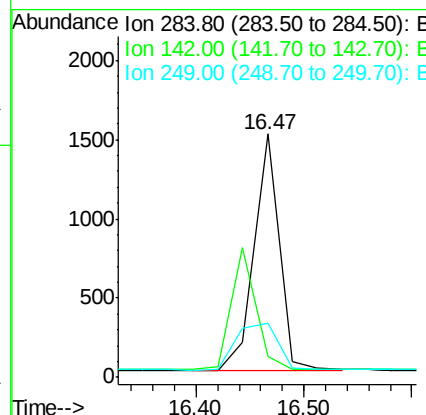
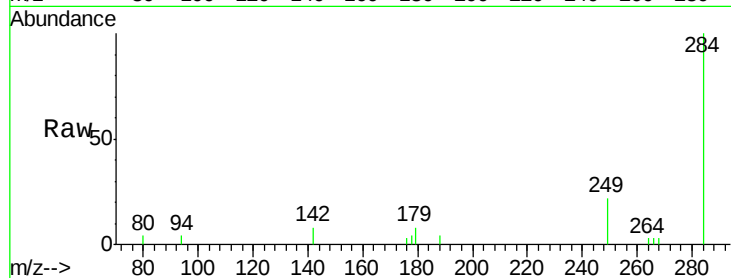




#20
Hexachlorobenzene
Concen: 1.14 ng
RT: 16.47 min Scan# 1048
Delta R.T. 0.00 min
Lab File: BE092976.D
Acq: 10 May 2017 11:12

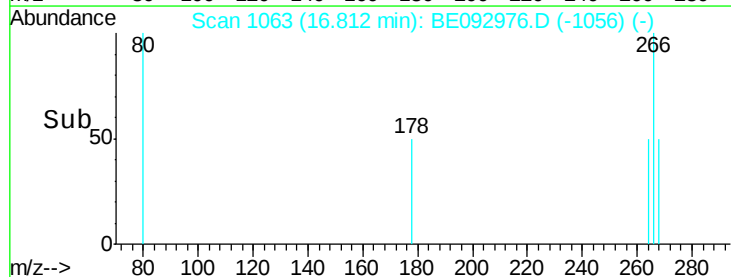
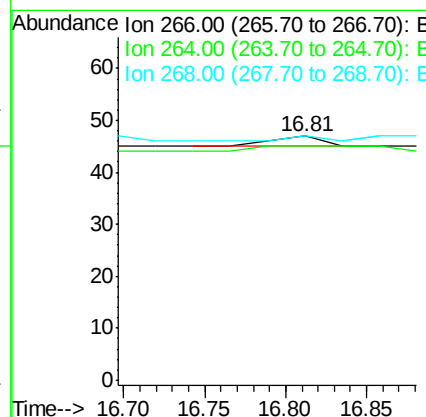
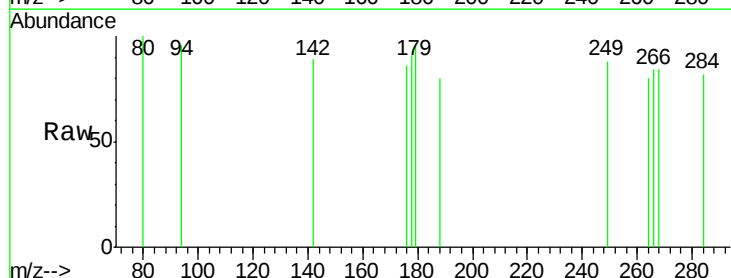
Instrument :
BNA_E
ClientSampleId :
PT-BNA-SOILDL

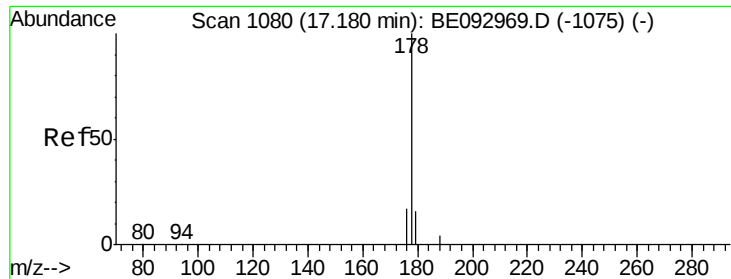
Tgt Ion: 284 Resp: 2410
Ion Ratio Lower Upper
284 100
142 0.0 0.0 0.0
249 33.0 0.0 0.0#



#21
Pentachlorophenol
Concen: 0.14 ng
RT: 16.81 min Scan# 1063
Delta R.T. 0.00 min
Lab File: BE092976.D
Acq: 10 May 2017 11:12

Tgt Ion: 266 Resp: 4
Ion Ratio Lower Upper
266 100
264 95.7 58.2 87.2#
268 100.0 71.9 107.9





#22

Phenanthrene

Concen: 0.36 ng

RT: 17.18 min Scan# 1079

Delta R.T. 0.00 min

Lab File: BE092976.D

Acq: 10 May 2017 11:12

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOILD

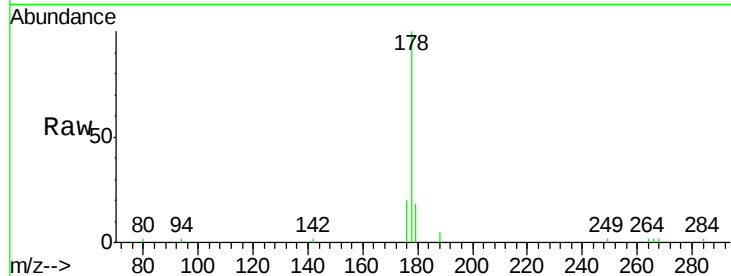
Tgt Ion:178 Resp: 4593

Ion Ratio Lower Upper

178 100

176 19.1 15.0 22.4

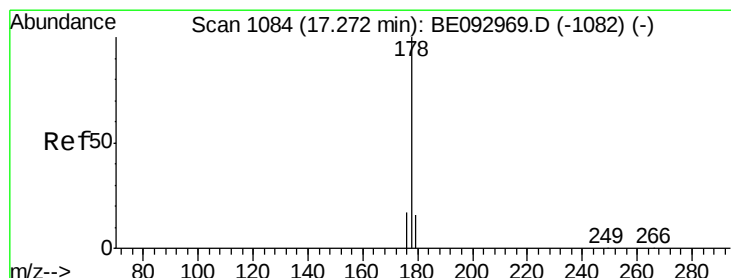
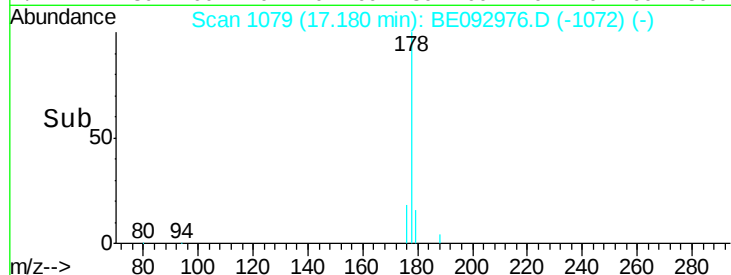
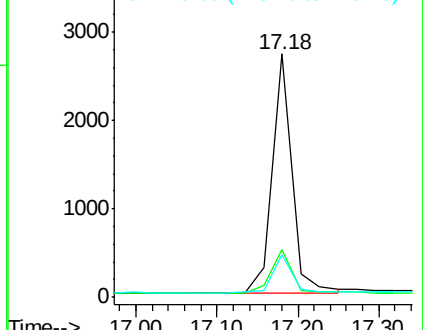
179 16.0 12.7 19.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#23

Anthracene

Concen: 0.47 ng

RT: 17.18 min Scan# 1079

Delta R.T. -0.09 min

Lab File: BE092976.D

Acq: 10 May 2017 11:12

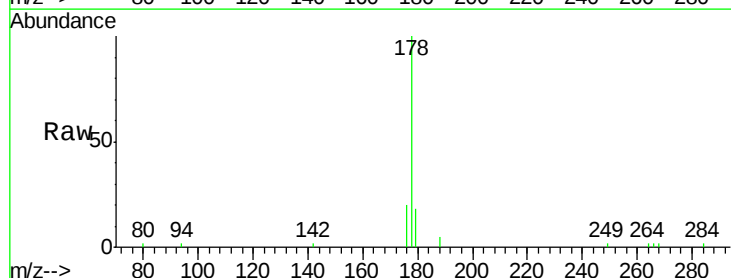
Tgt Ion:178 Resp: 4766

Ion Ratio Lower Upper

178 100

176 19.1 14.6 22.0

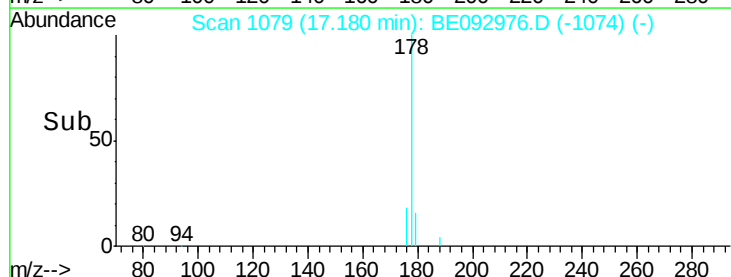
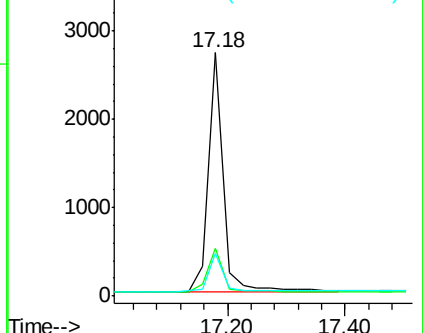
179 15.8 12.0 18.0

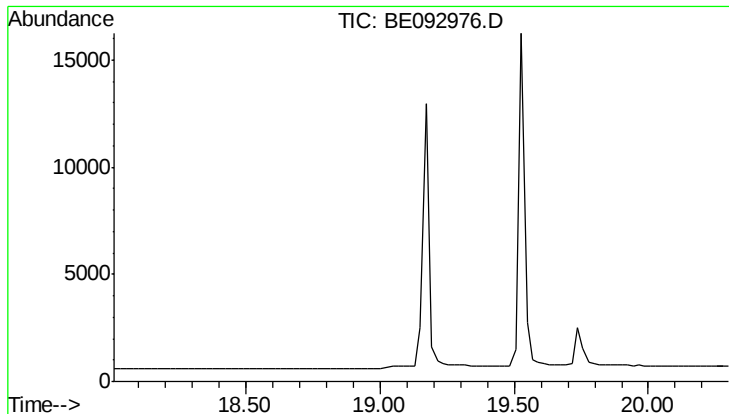


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

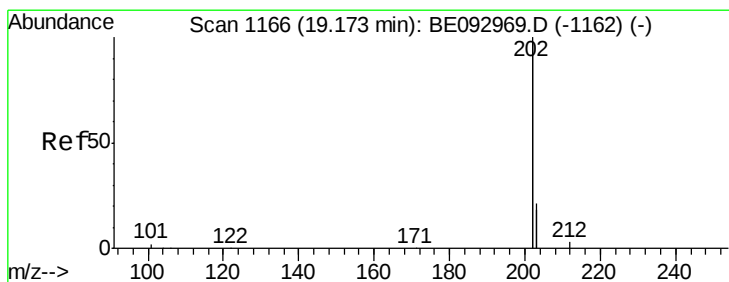
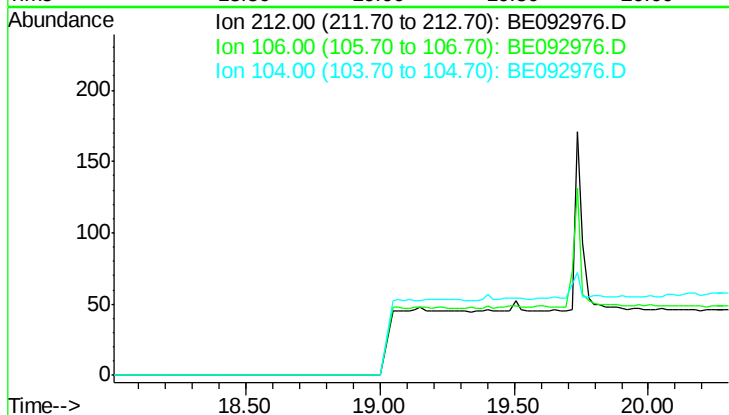




#24
 Fluoranthene-d10
 Concen: 0.00 ng
 Expected RT: 19.15 min
 Lab File: BE092976.D
 Acq: 10 May 2017 11:12

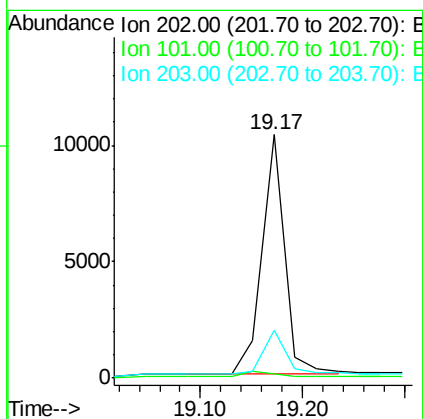
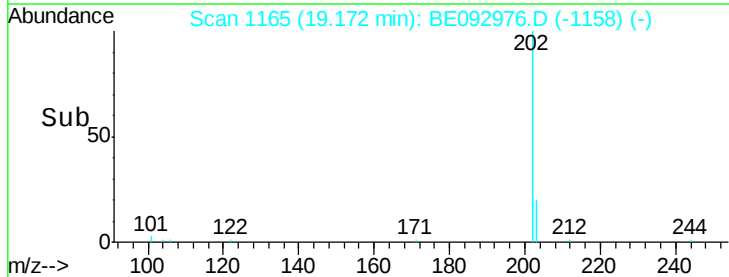
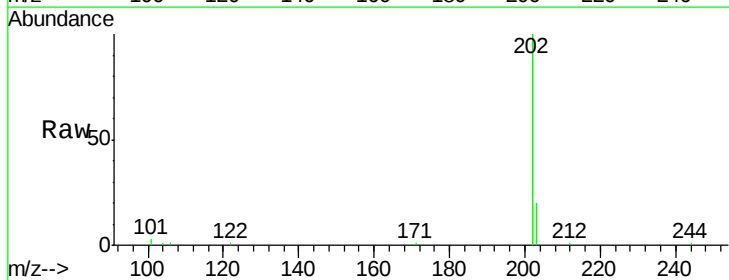
Instrument :
 BNA_E
 ClientSampleId :
 PT-BNA-SOILDL

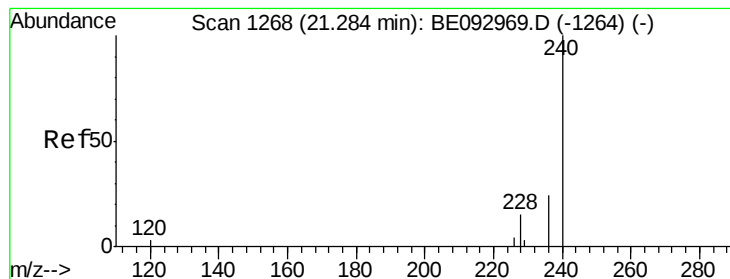
Tgt Ion: 212
 Sig Exp Ratio
 212 100
 106 0.0
 104 0.0



#25
 Fluoranthene
 Concen: 0.26 ng
 RT: 19.17 min Scan# 1165
 Delta R.T. -0.00 min
 Lab File: BE092976.D
 Acq: 10 May 2017 11:12

Tgt Ion: 202 Resp: 15921
 Ion Ratio Lower Upper
 202 100
 101 0.0 0.0 0.0
 203 17.7 14.4 21.6





#26

Chrysene-d12

Concen: 0.40 ng

RT: 21.28 min Scan# 1267

Delta R.T. 0.00 min

Lab File: BE092976.D

Acq: 10 May 2017 11:12

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOILDL

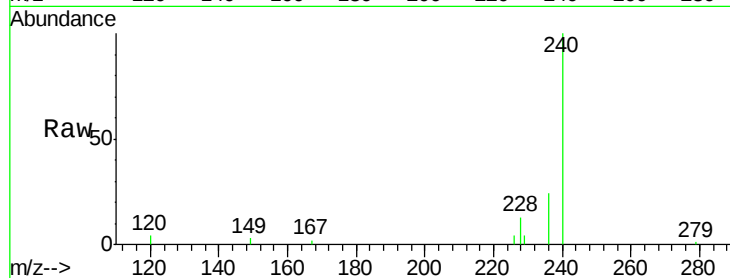
Tgt Ion:240 Resp: 4964

Ion Ratio Lower Upper

240 100

120 4.3 4.6 7.0#

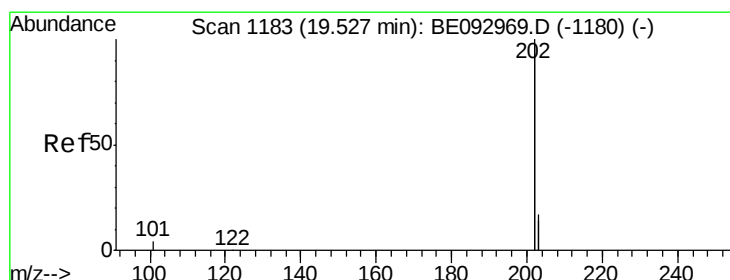
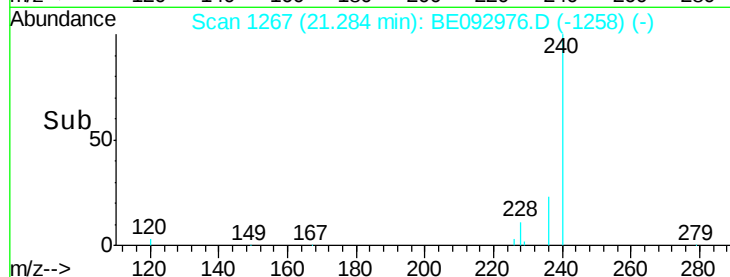
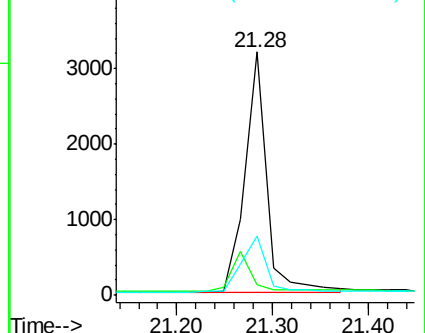
236 24.4 20.8 31.2



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



#27

Pyrene

Concen: 0.30 ng

RT: 19.53 min Scan# 1182

Delta R.T. -0.00 min

Lab File: BE092976.D

Acq: 10 May 2017 11:12

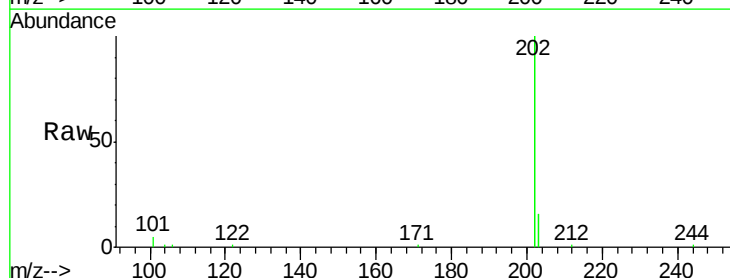
Tgt Ion:202 Resp: 19598

Ion Ratio Lower Upper

202 100

200 0.0 0.0 0.0

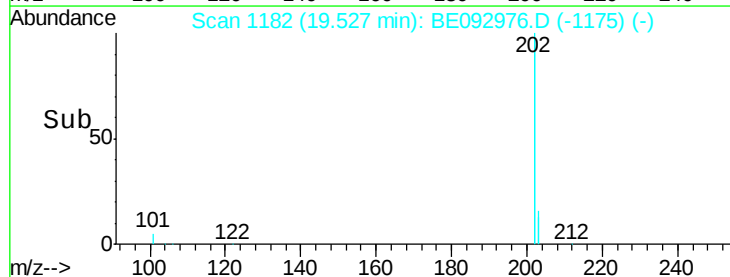
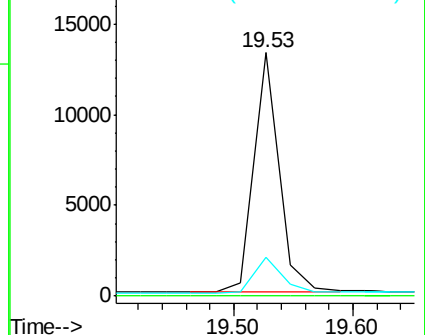
203 16.4 13.7 20.5

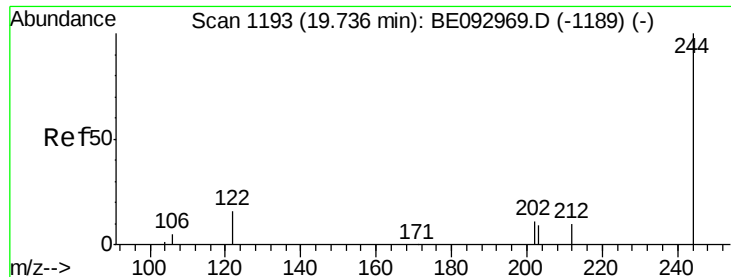


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#28

Terphenyl-d14

Concen: 0.34 ng

RT: 19.74 min Scan# 1192

Delta R.T. -0.00 min

Lab File: BE092976.D

Acq: 10 May 2017 11:12

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOILDL

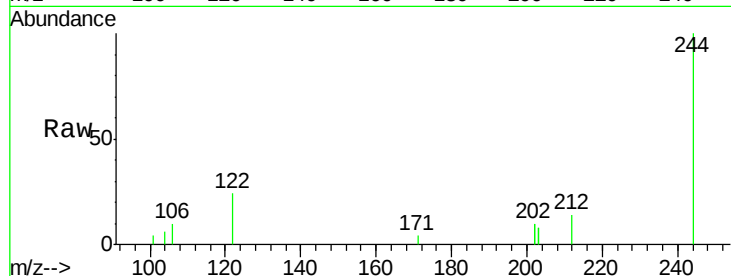
Tgt Ion:244 Resp: 2601

Ion Ratio Lower Upper

244 100

212 13.6 10.6 16.0

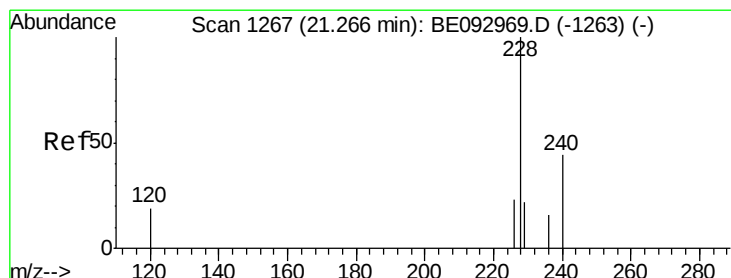
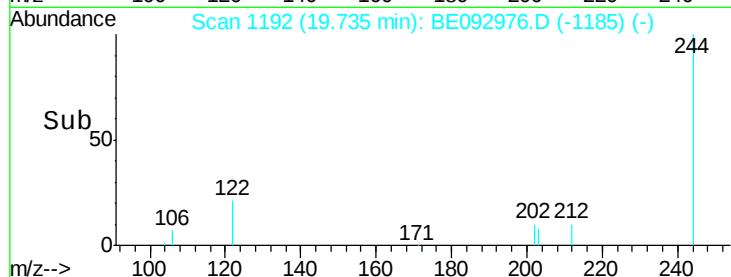
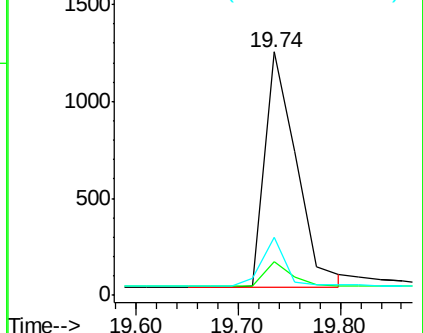
122 23.6 15.4 23.0#



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



#29

Benzo(a)anthracene

Concen: 0.47 ng

RT: 21.27 min Scan# 1266

Delta R.T. 0.00 min

Lab File: BE092976.D

Acq: 10 May 2017 11:12

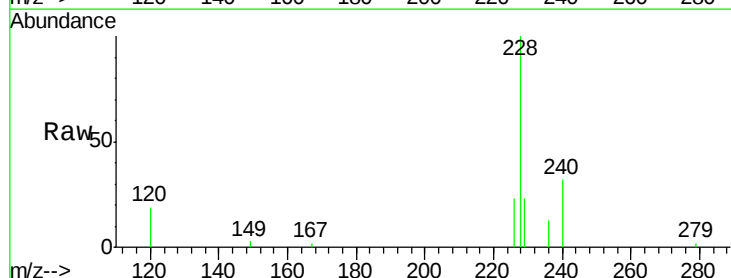
Tgt Ion:228 Resp: 5577

Ion Ratio Lower Upper

228 100

226 22.9 19.7 29.5

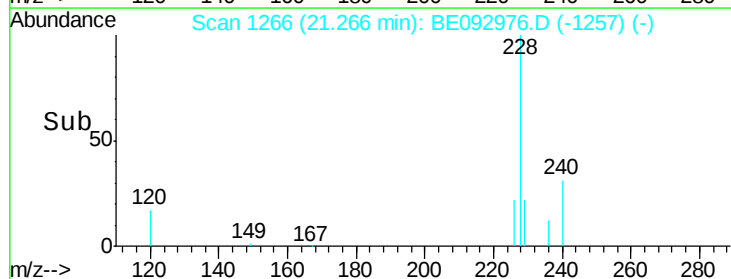
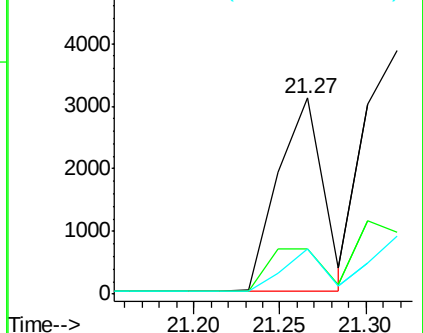
229 23.4 19.2 28.8

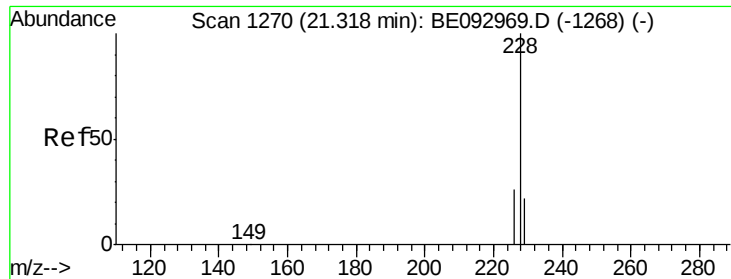


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#30

Chrysene

Concen: 0.51 ng

RT: 21.32 min Scan# 1269

Delta R.T. 0.00 min

Lab File: BE092976.D

Acq: 10 May 2017 11:12

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOILDL

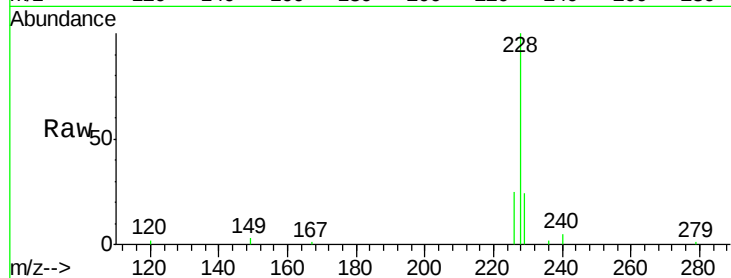
Tgt Ion:228 Resp: 8034

Ion Ratio Lower Upper

228 100

226 25.5 21.5 32.3

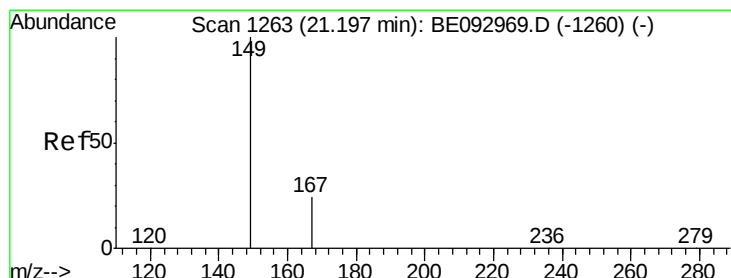
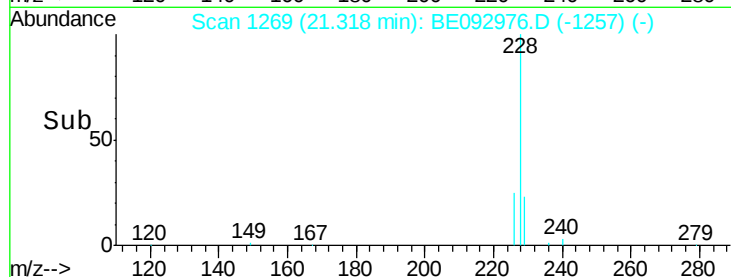
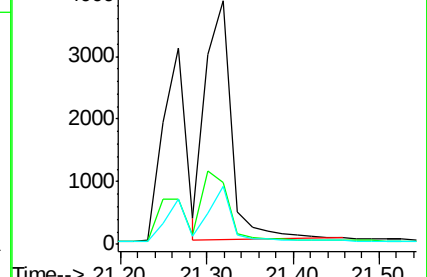
229 23.6 18.6 28.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#31

Bis(2-ethylhexyl)phthalate

Concen: 0.58 ng

RT: 21.20 min Scan# 1262

Delta R.T. 0.00 min

Lab File: BE092976.D

Acq: 10 May 2017 11:12

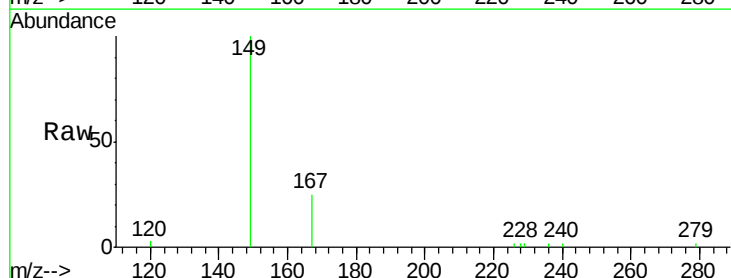
Tgt Ion:149 Resp: 2555

Ion Ratio Lower Upper

149 100

167 24.1 20.1 30.1

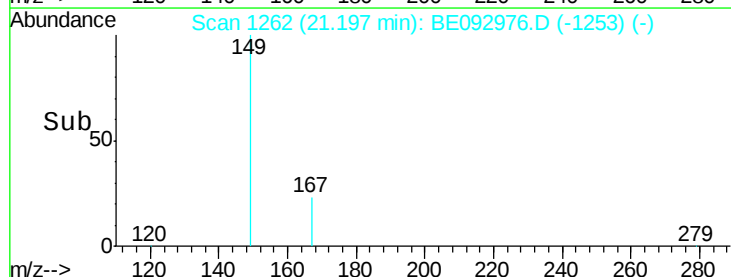
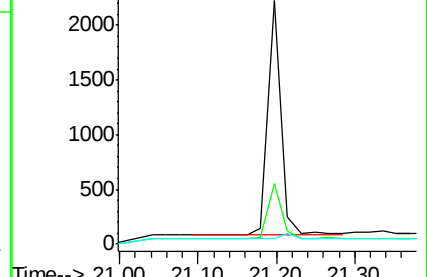
279 2.6 2.2 3.4

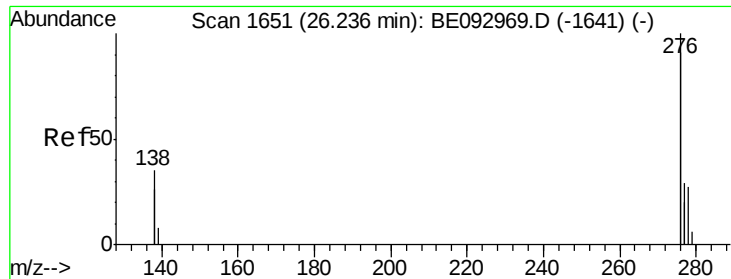


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#32

Indeno(1,2,3-cd)pyrene

Concen: 0.43 ng

RT: 26.24 min Scan# 1650

Delta R.T. -0.00 min

Lab File: BE092976.D

Acq: 10 May 2017 11:12

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOILD

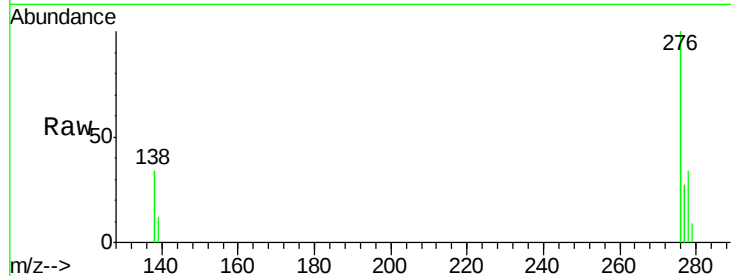
Tgt Ion: 276 Resp: 23391

Ion Ratio Lower Upper

276 100

138 34.6 27.4 41.2

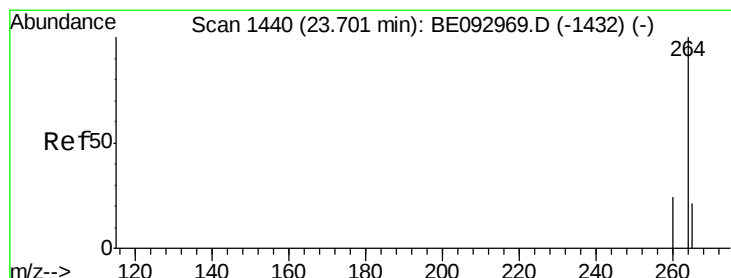
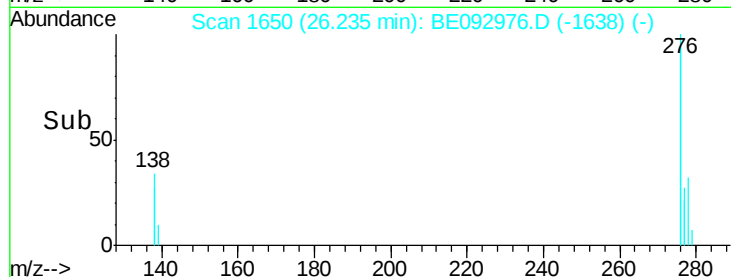
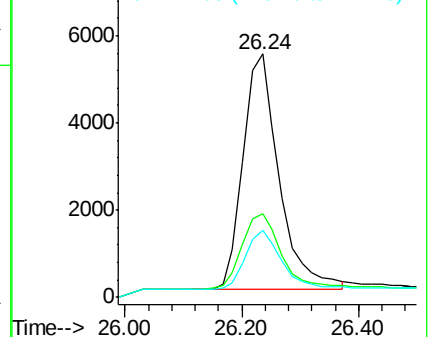
277 25.1 20.1 30.1



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



#33

Perylene-d12

Concen: 0.40 ng

RT: 23.70 min Scan# 1439

Delta R.T. 0.00 min

Lab File: BE092976.D

Acq: 10 May 2017 11:12

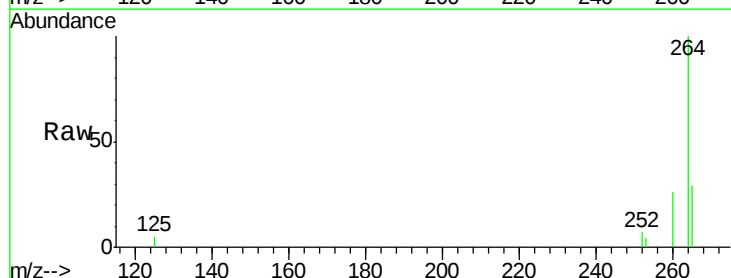
Tgt Ion: 264 Resp: 4308

Ion Ratio Lower Upper

264 100

260 26.1 21.0 31.4

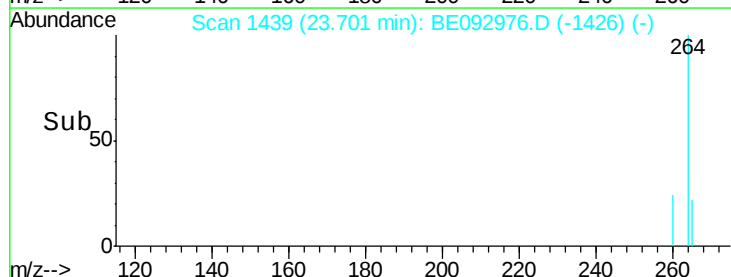
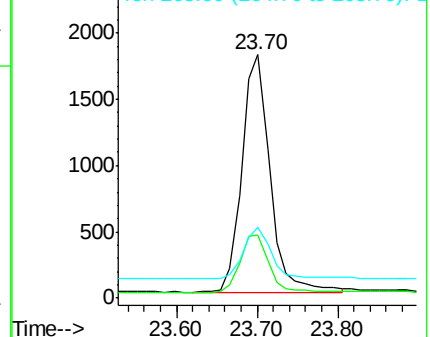
265 29.0 24.6 36.8

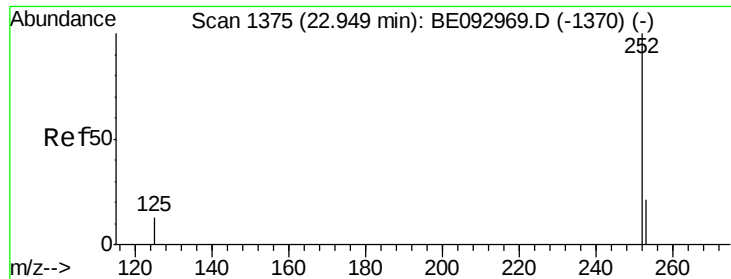


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

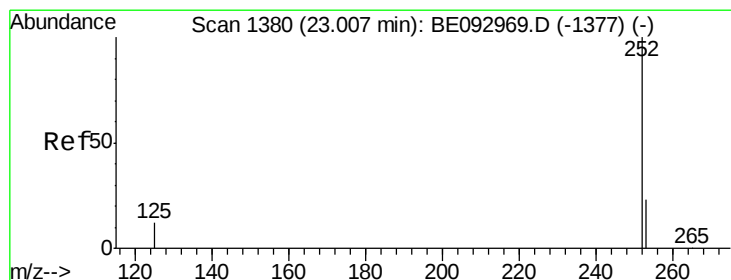
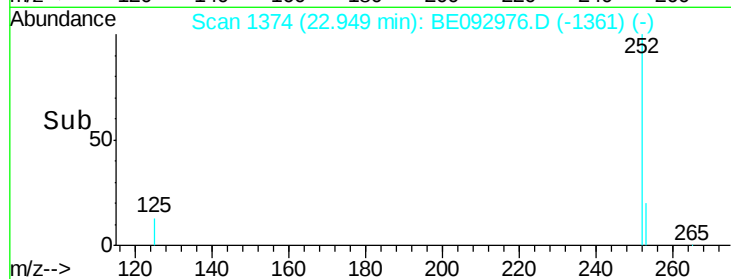
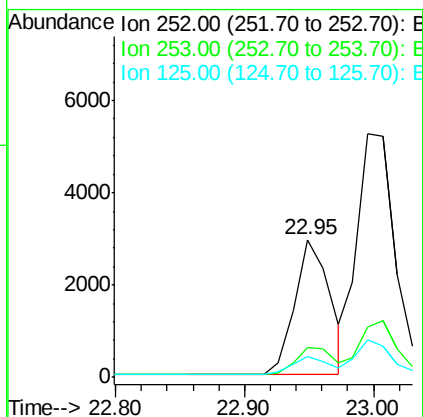
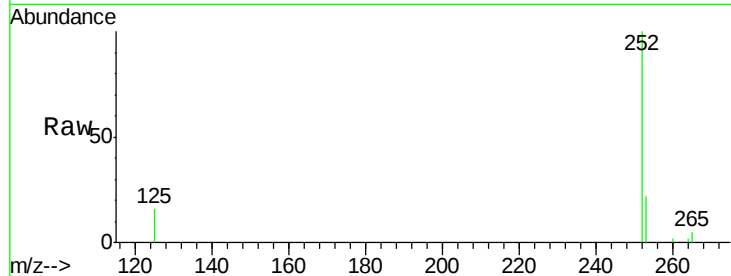




#34
Benzo(b)fluoranthene
Concen: 0.42 ng
RT: 22.95 min Scan# 1374
Delta R.T. 0.00 min
Lab File: BE092976.D
Acq: 10 May 2017 11:12

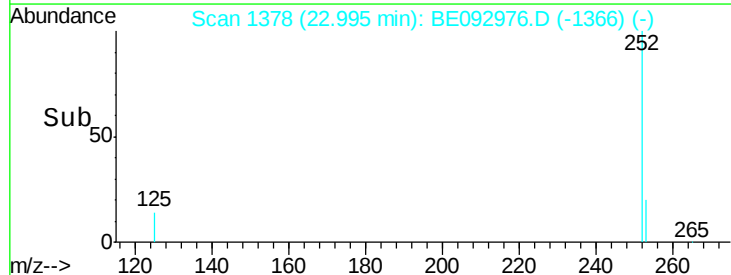
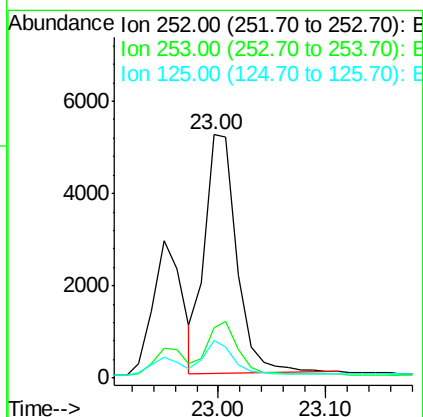
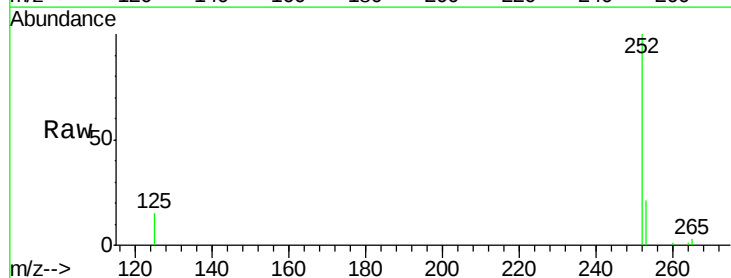
Instrument :
BNA_E
ClientSampleId :
PT-BNA-SOILD

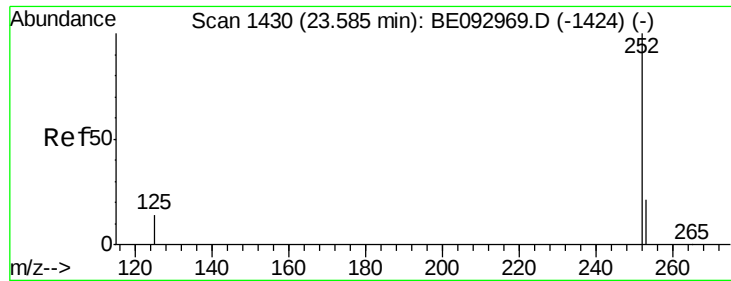
Tgt Ion:252 Resp: 5568
Ion Ratio Lower Upper
252 100
253 22.1 18.5 27.7
125 15.6 13.4 20.0



#35
Benzo(k)fluoranthene
Concen: 0.76 ng
RT: 23.00 min Scan# 1378
Delta R.T. -0.01 min
Lab File: BE092976.D
Acq: 10 May 2017 11:12

Tgt Ion:252 Resp: 10769
Ion Ratio Lower Upper
252 100
253 20.7 20.3 30.5
125 15.2 12.2 18.4





#36

Benzo(a)pyrene

Concen: 0.51 ng

RT: 23.59 min Scan# 1429

Delta R.T. 0.00 min

Lab File: BE092976.D

Acq: 10 May 2017 11:12

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOILD

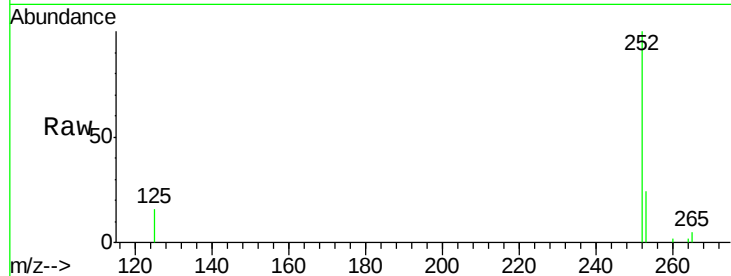
Tgt Ion: 252 Resp: 6302

Ion Ratio Lower Upper

252 100

253 24.0 19.9 29.9

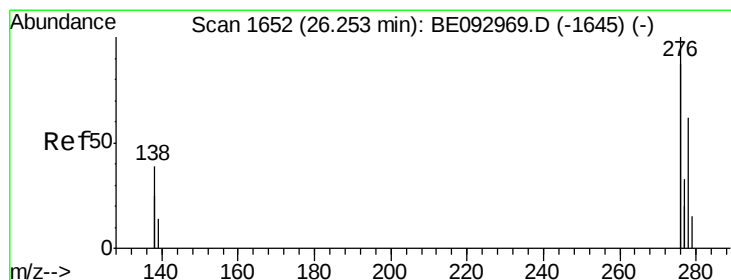
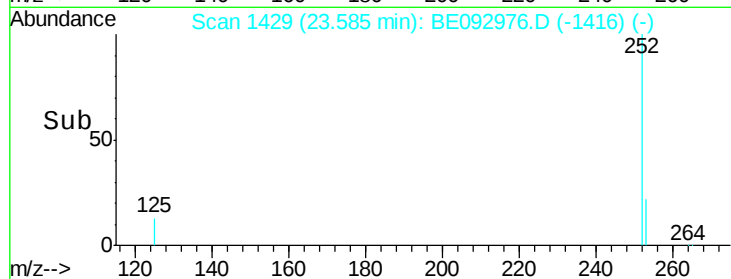
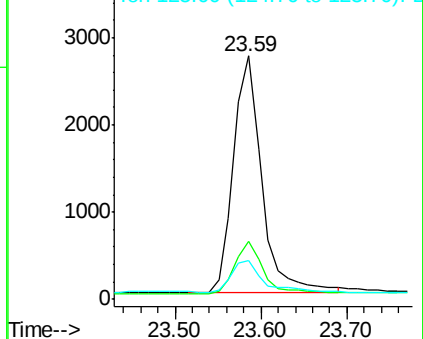
125 15.9 14.6 21.8



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



#37

Dibenzo(a,h)anthracene

Concen: 0.49 ng

RT: 26.25 min Scan# 1651

Delta R.T. -0.00 min

Lab File: BE092976.D

Acq: 10 May 2017 11:12

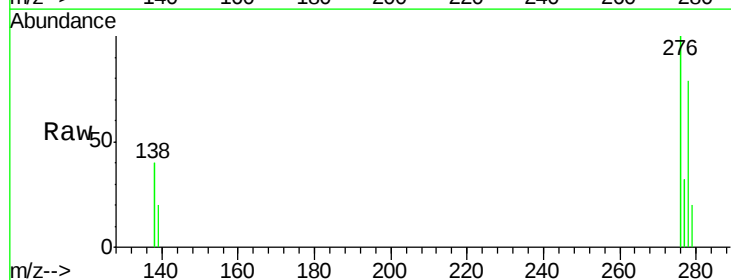
Tgt Ion: 278 Resp: 5972

Ion Ratio Lower Upper

278 100

139 25.3 21.4 32.0

279 25.6 22.2 33.2



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

