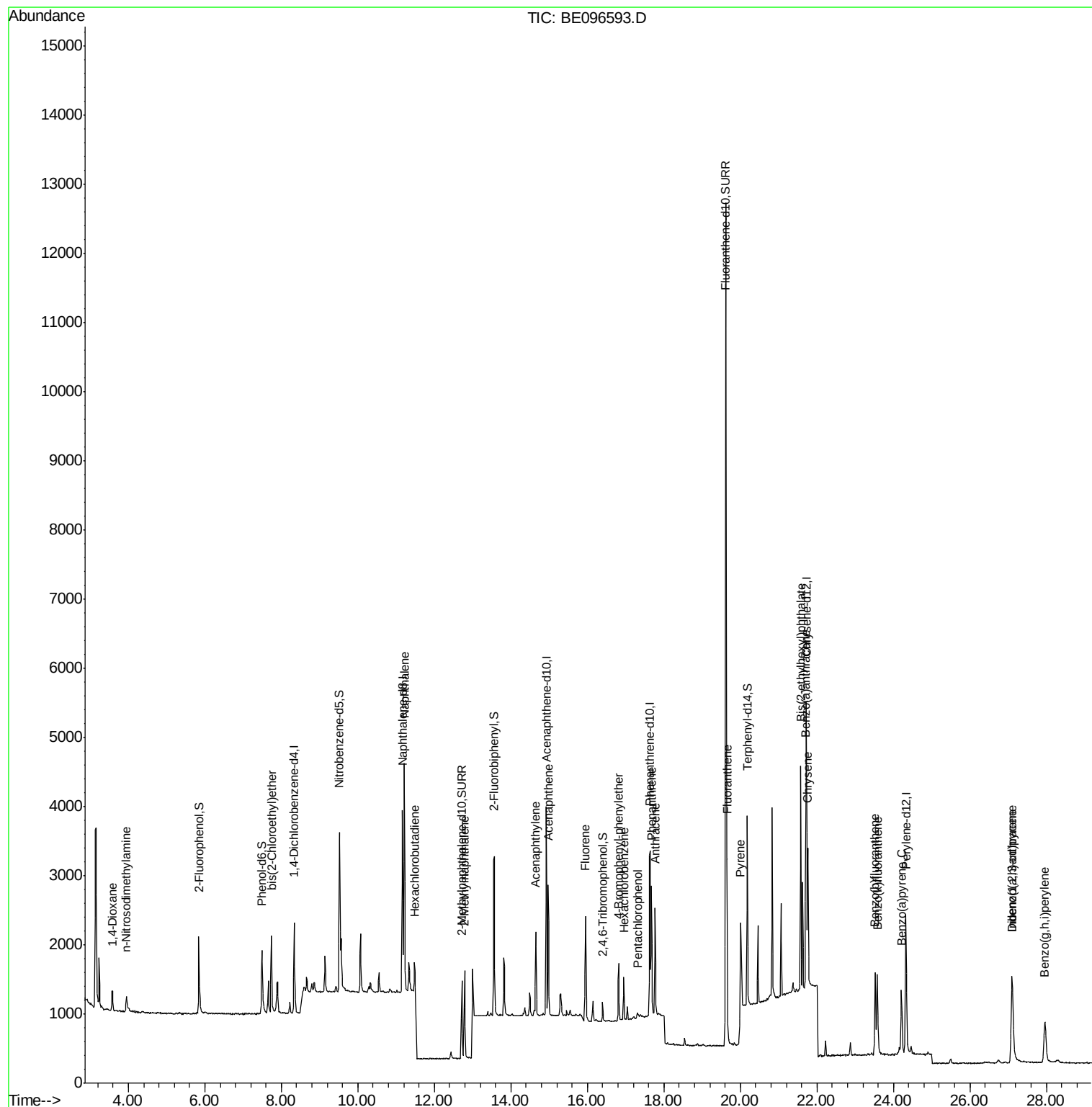
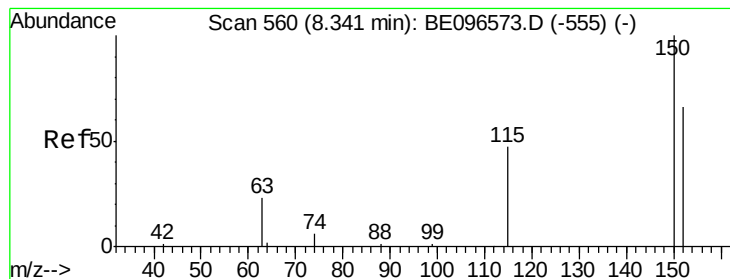


Data Path : Z:\HPCHEM1\BNA_E\DATA\BE051618\
Data File : BE096593.D
Acq On : 16 May 2018 14:55
Operator : SJ/JU
Sample : J2133-02
Misc : LOQ 0.2
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
LOQ-SOIL-02-QT2-2018

Quant Time: May 17 03:55:07 2018
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE051518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 15 13:02:03 2018
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 8.34 min Scan# 560

Delta R.T. -0.00 min

Lab File: BE096593.D

Acq: 16 May 2018 14:55

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL-02-QT2-2018

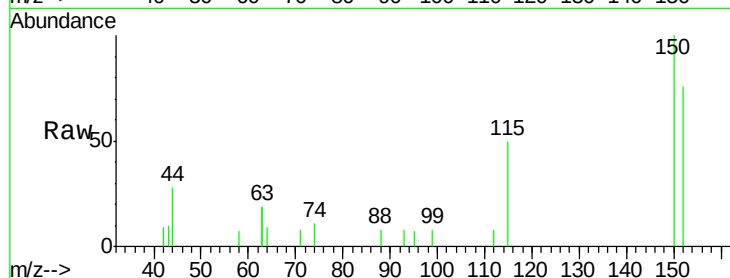
Tgt Ion: 152 Resp: 710

Ion Ratio Lower Upper

152 100

150 132.2 117.2 175.8

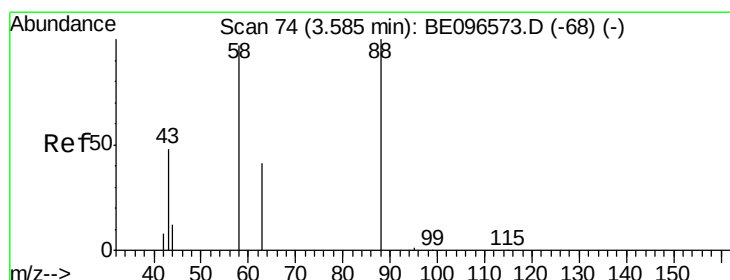
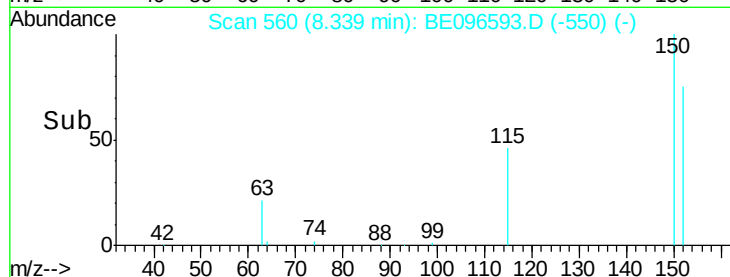
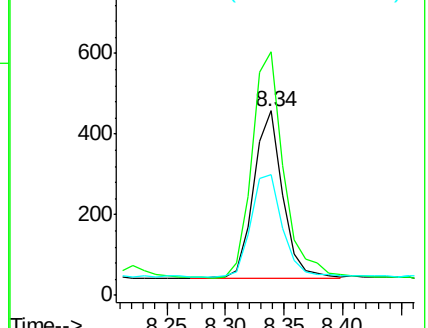
115 65.9 57.0 85.6



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



#2

1,4-Dioxane

Concen: 0.196 ng

RT: 3.58 min Scan# 74

Delta R.T. -0.00 min

Lab File: BE096593.D

Acq: 16 May 2018 14:55

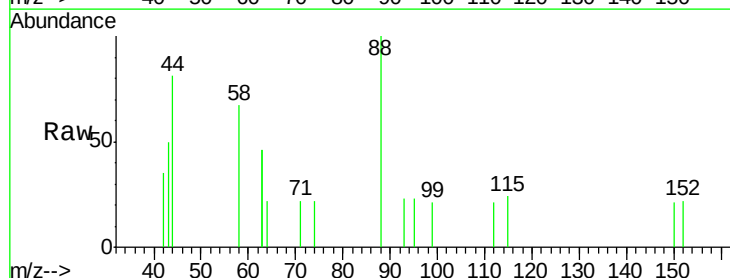
Tgt Ion: 88 Resp: 209

Ion Ratio Lower Upper

88 100

58 86.6 63.2 94.8

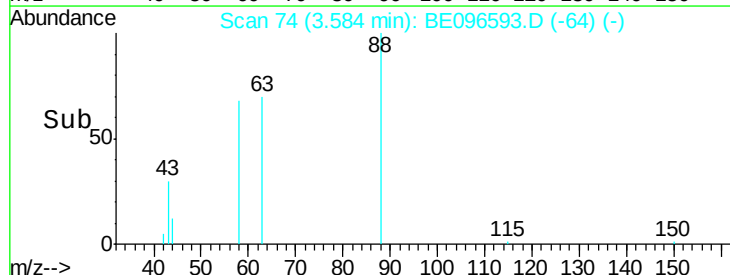
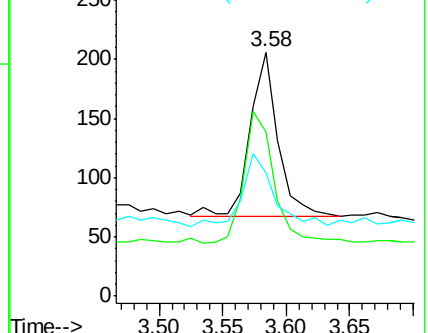
43 50.2 41.2 61.8

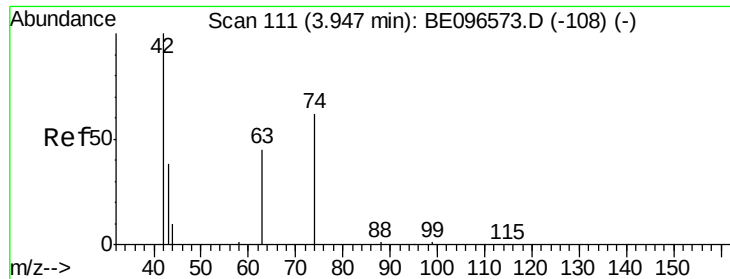


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.173 ng

RT: 3.95 min Scan# 111

Delta R.T. -0.00 min

Lab File: BE096593.D

Acq: 16 May 2018 14:55

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL-02-QT2-2018

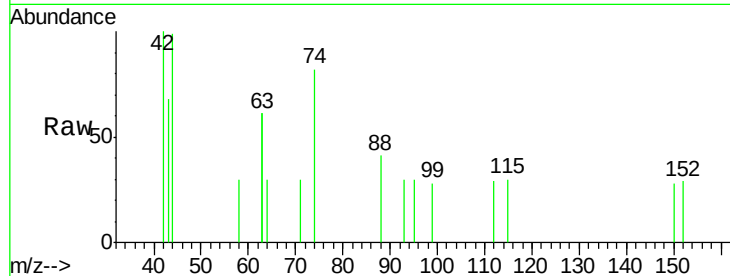
Tgt Ion: 42 Resp: 230

Ion Ratio Lower Upper

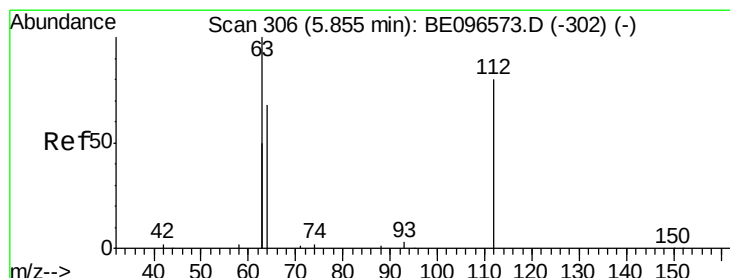
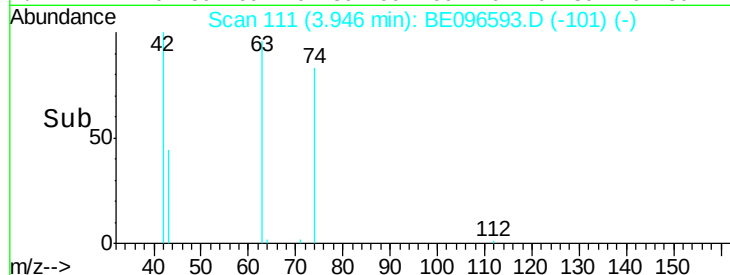
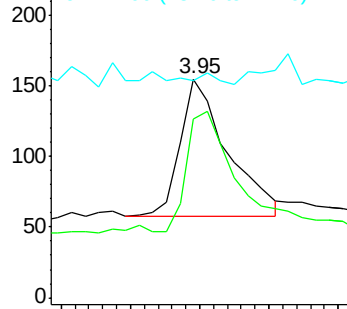
42 100

74 93.0 96.0 144.0#

44 0.0 12.0 18.0#



Abundance Ion 42.00 (41.70 to 42.70): BE0
Ion 74.00 (73.70 to 74.70): BE0
Ion 44.00 (43.70 to 44.70): BE0



#4

2-Fluorophenol

Concen: 0.335 ng

RT: 5.84 min Scan# 305

Delta R.T. -0.01 min

Lab File: BE096593.D

Acq: 16 May 2018 14:55

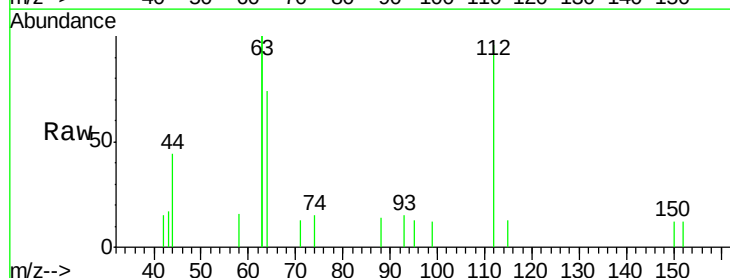
Tgt Ion: 112 Resp: 655

Ion Ratio Lower Upper

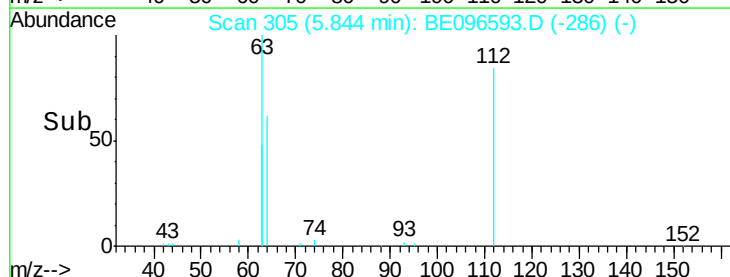
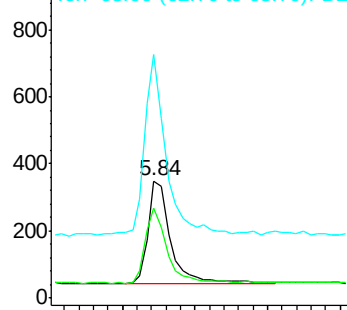
112 100

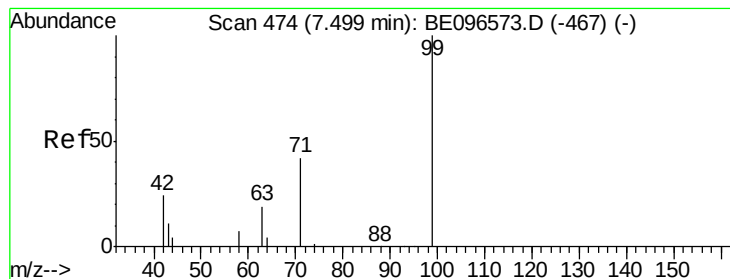
64 71.8 60.1 90.1

63 165.5 116.8 175.2



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: 0.315 ng

RT: 7.49 min Scan# 473

Delta R.T. -0.01 min

Lab File: BE096593.D

Acq: 16 May 2018 14:55

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL-02-QT2-2018

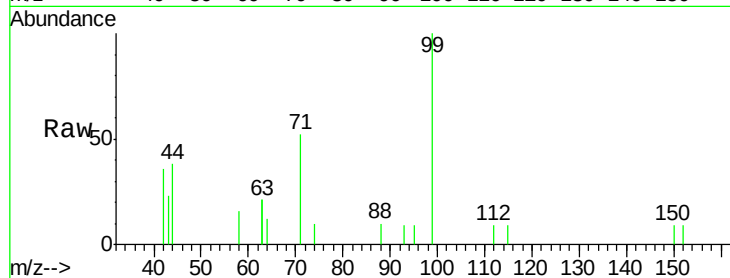
Tgt Ion: 99 Resp: 874

Ion Ratio Lower Upper

99 100

42 27.7 20.2 30.2

71 45.0 28.4 42.6#



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

600

400

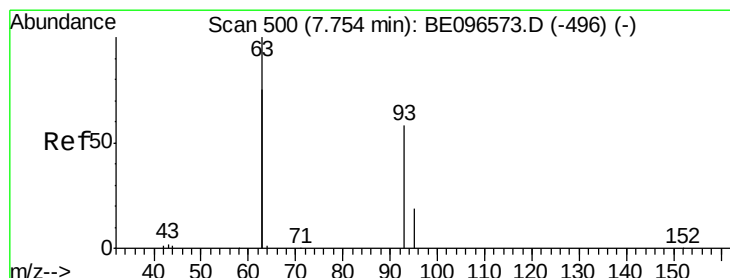
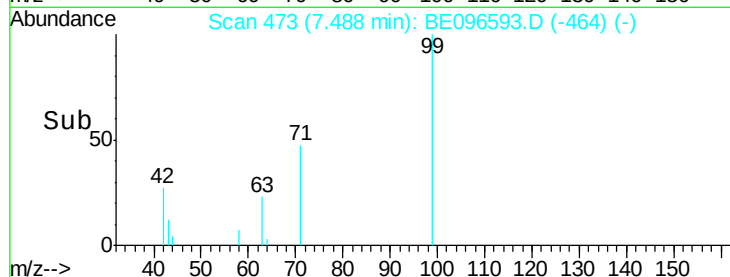
200

0

7.40 7.45 7.50 7.55

7.49

Time-->



#6

bis(2-Chloroethyl)ether

Concen: 0.186 ng

RT: 7.74 min Scan# 499

Delta R.T. -0.01 min

Lab File: BE096593.D

Acq: 16 May 2018 14:55

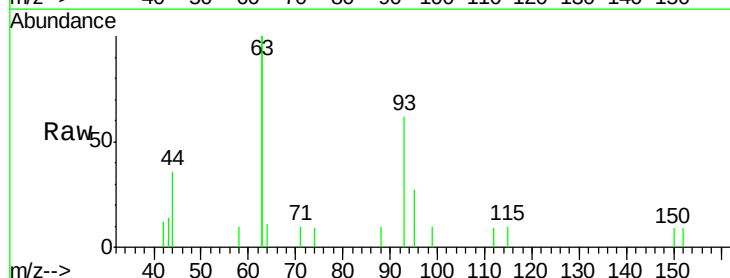
Tgt Ion: 93 Resp: 483

Ion Ratio Lower Upper

93 100

63 322.2 275.3 412.9

95 31.1 25.2 37.8



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

1200

1000

800

600

400

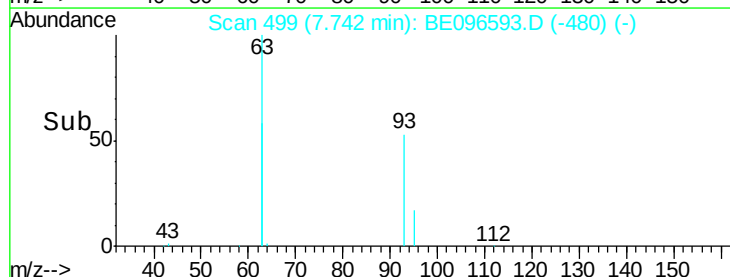
200

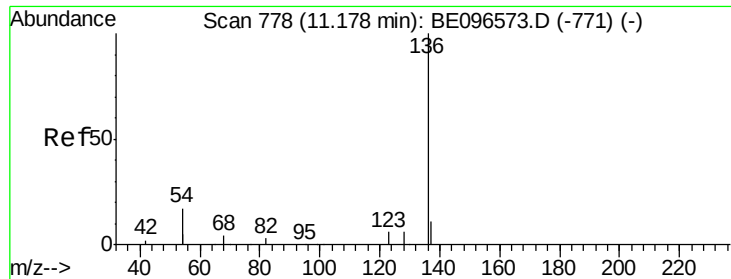
0

7.70 7.74 7.80 7.90

7.74

Time-->





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 11.17 min Scan# 777

Delta R.T. -0.01 min

Lab File: BE096593.D

Acq: 16 May 2018 14:55

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL-02-QT2-2018

Tgt Ion:136 Resp: 2861

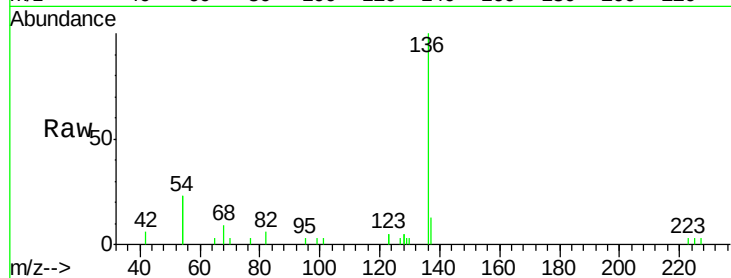
Ion Ratio Lower Upper

136 100

137 13.1 9.5 14.3

54 45.6 29.1 43.7#

68 8.6 6.2 9.2

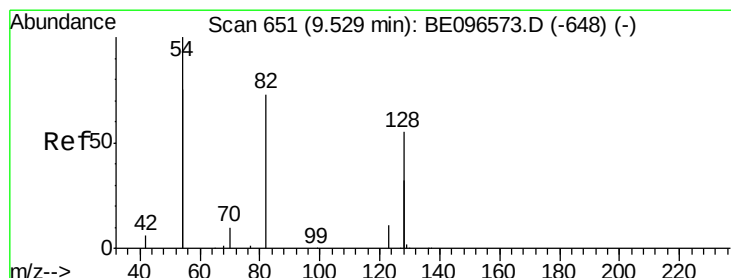
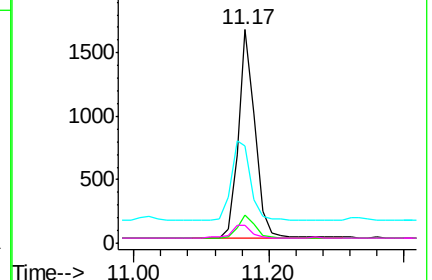
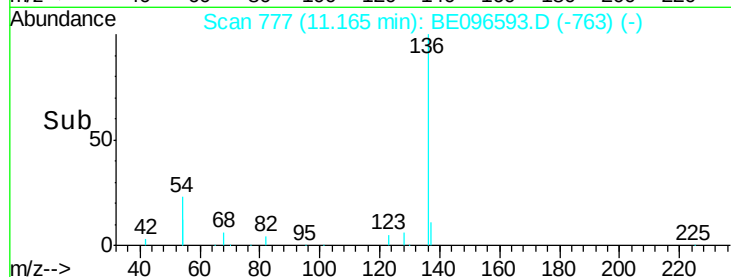


Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.347 ng

RT: 9.52 min Scan# 650

Delta R.T. -0.01 min

Lab File: BE096593.D

Acq: 16 May 2018 14:55

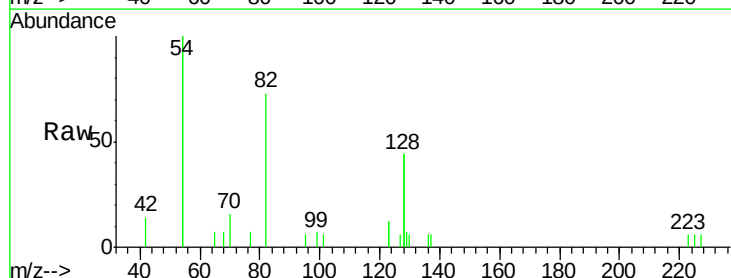
Tgt Ion: 82 Resp: 1057

Ion Ratio Lower Upper

82 100

128 120.2 150.0 225.0#

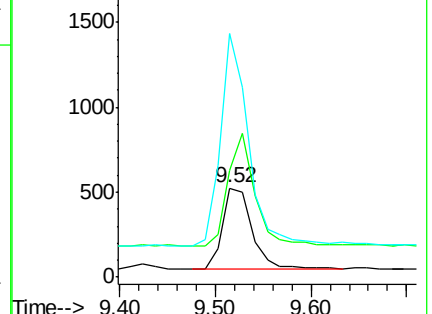
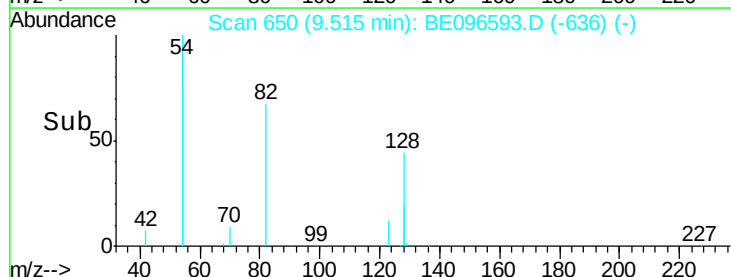
54 273.7 154.2 231.4#

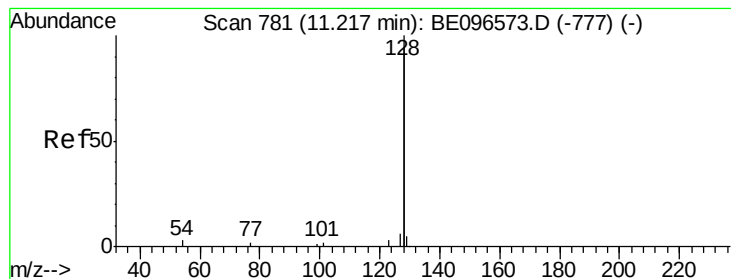


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.179 ng

RT: 11.22 min Scan# 781

Delta R.T. -0.00 min

Lab File: BE096593.D

Acq: 16 May 2018 14:55

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL-02-QT2-2018

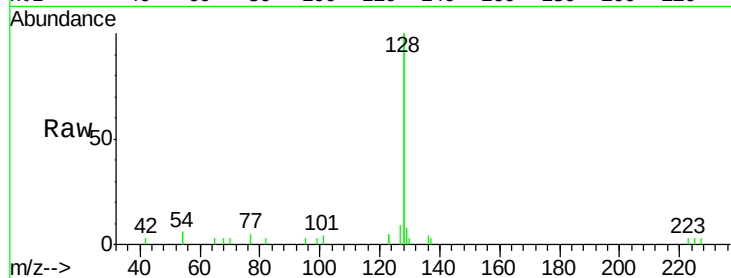
Tgt Ion:128 Resp: 5388

Ion Ratio Lower Upper

128 100

129 4.0 2.6 3.8#

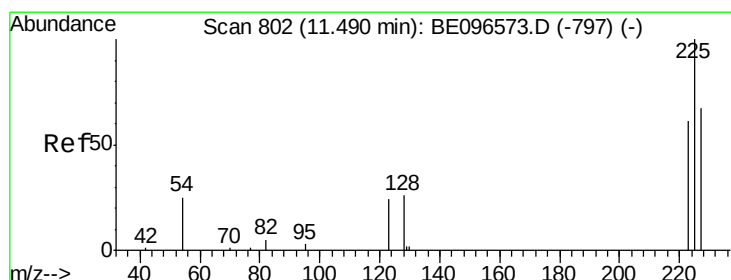
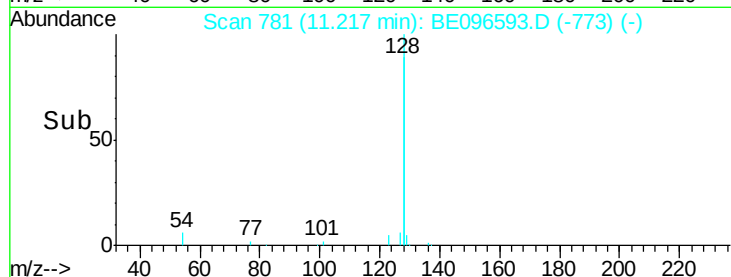
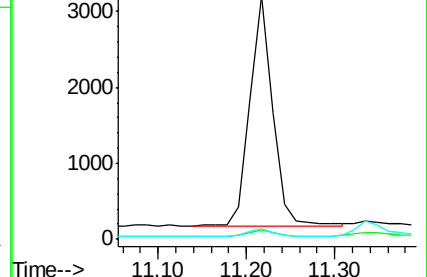
127 4.6 2.8 4.2#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#10

Hexachlorobutadiene

Concen: 0.165 ng

RT: 11.48 min Scan# 801

Delta R.T. -0.01 min

Lab File: BE096593.D

Acq: 16 May 2018 14:55

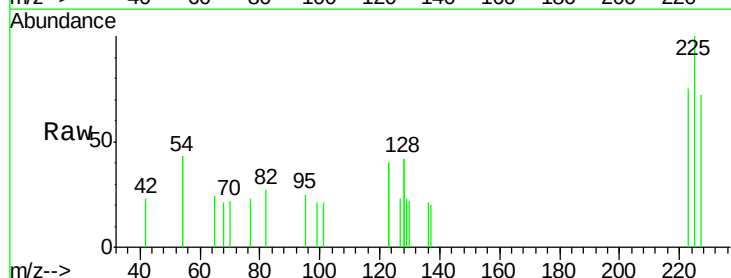
Tgt Ion:225 Resp: 277

Ion Ratio Lower Upper

225 100

223 61.7 53.0 79.6

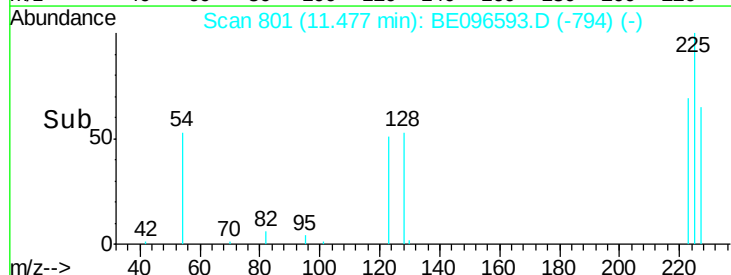
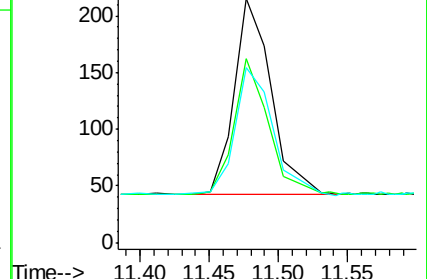
227 72.9 51.4 77.2

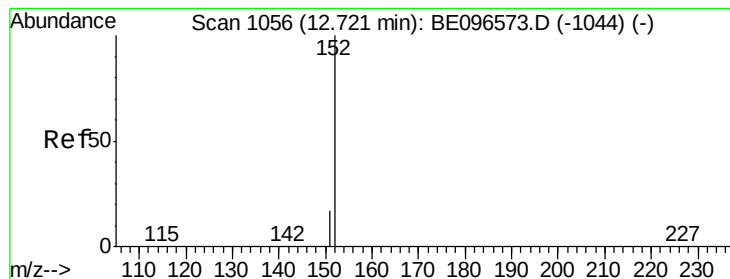


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.348 ng

RT: 12.72 min Scan# 1055

Delta R.T. -0.00 min

Lab File: BE096593.D

Acq: 16 May 2018 14:55

Instrument :

BNA_E

ClientSampleId :

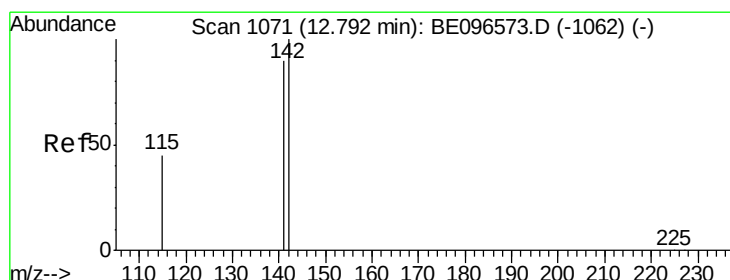
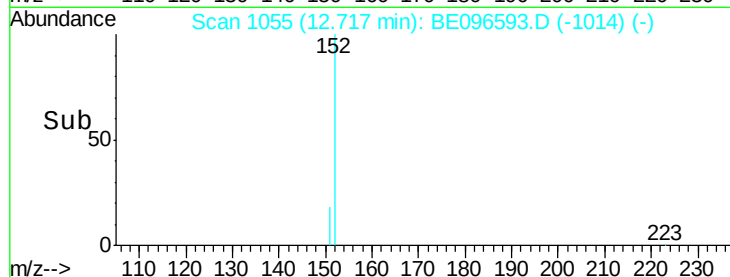
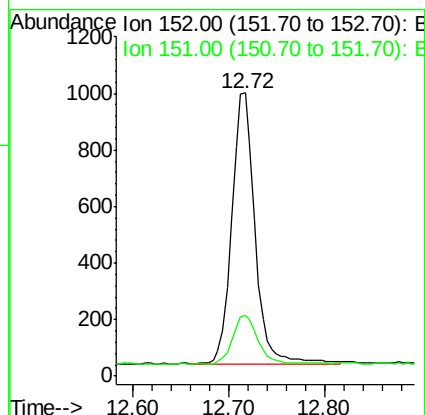
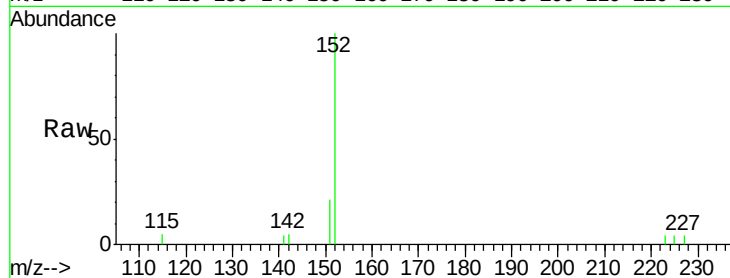
LOQ-SOIL-02-QT2-2018

Tgt Ion:152 Resp: 1628

Ion Ratio Lower Upper

152 100

151 18.9 15.4 23.0



#12

2-Methylnaphthalene

Concen: 0.174 ng

RT: 12.79 min Scan# 1070

Delta R.T. -0.00 min

Lab File: BE096593.D

Acq: 16 May 2018 14:55

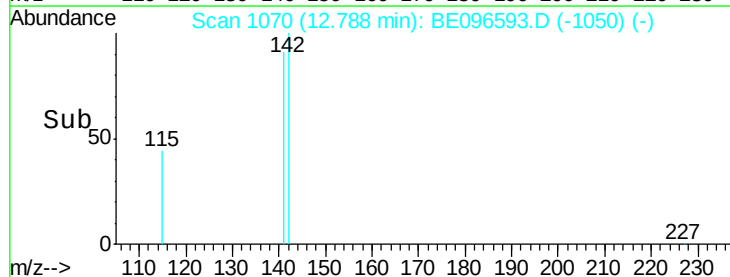
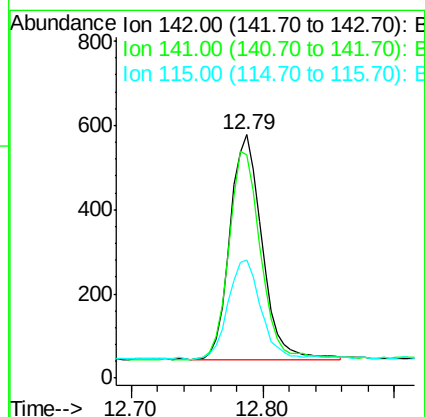
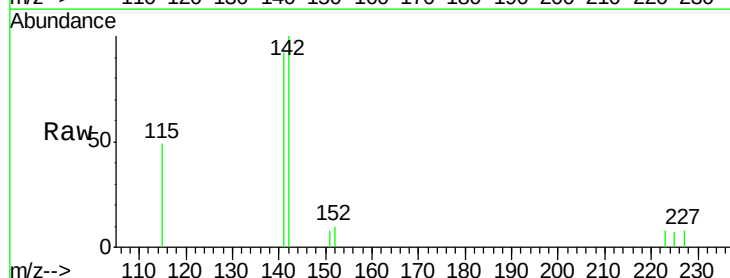
Tgt Ion:142 Resp: 896

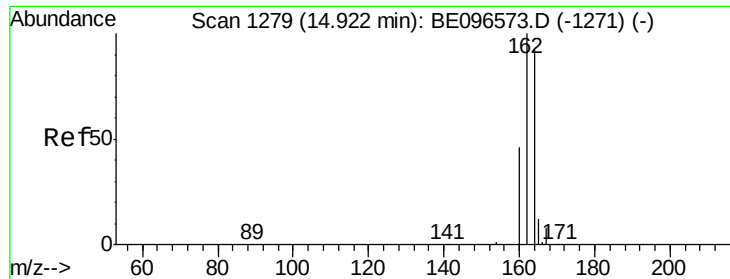
Ion Ratio Lower Upper

142 100

141 91.9 70.4 105.6

115 48.8 31.7 47.5#





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.92 min Scan# 1279

Delta R.T. 0.00 min

Lab File: BE096593.D

Acq: 16 May 2018 14:55

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL-02-QT2-2018

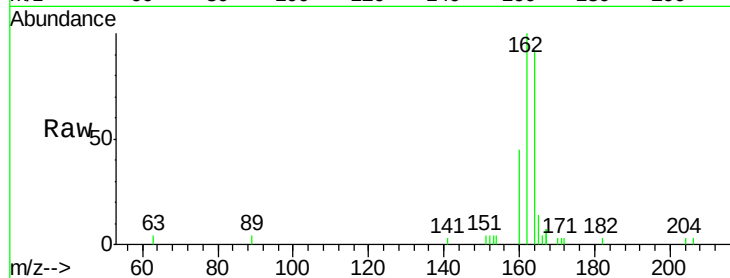
Tgt Ion:164 Resp: 1641

Ion Ratio Lower Upper

164 100

162 108.8 83.1 124.7

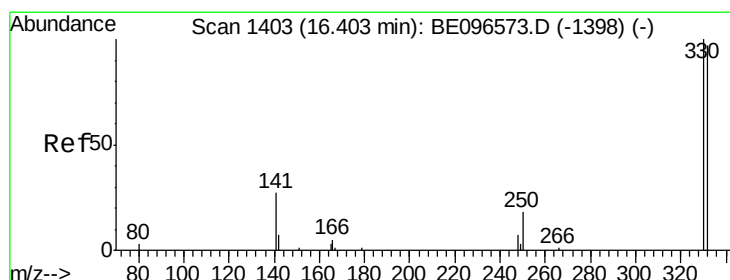
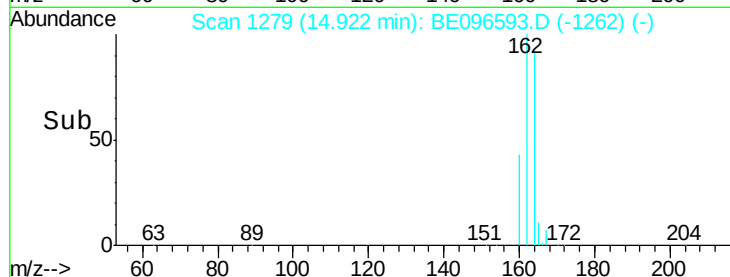
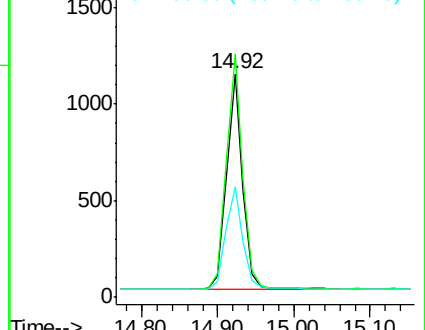
160 49.4 37.1 55.7



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14

2,4,6-Tribromophenol

Concen: 0.299 ng

RT: 16.40 min Scan# 1403

Delta R.T. 0.00 min

Lab File: BE096593.D

Acq: 16 May 2018 14:55

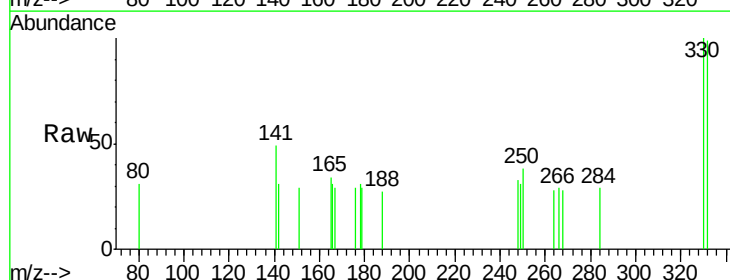
Tgt Ion:330 Resp: 194

Ion Ratio Lower Upper

330 100

332 99.5 152.7 229.1#

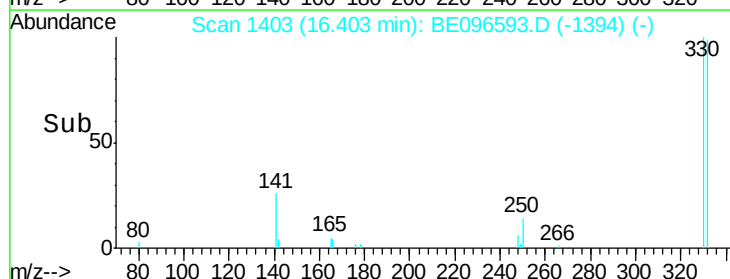
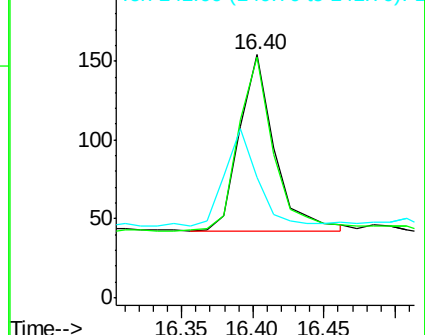
141 53.1 33.7 50.5#

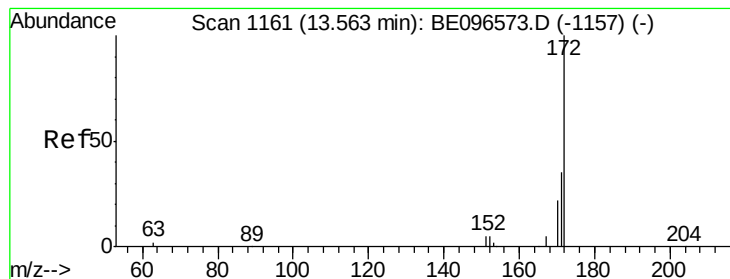


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

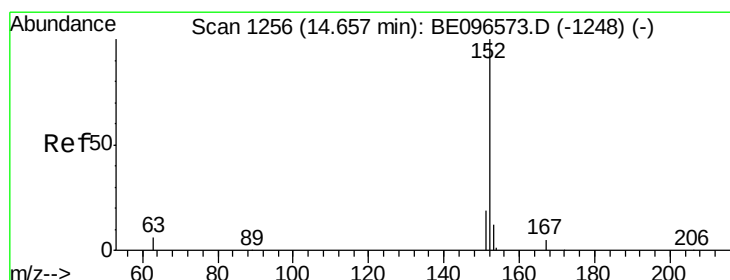
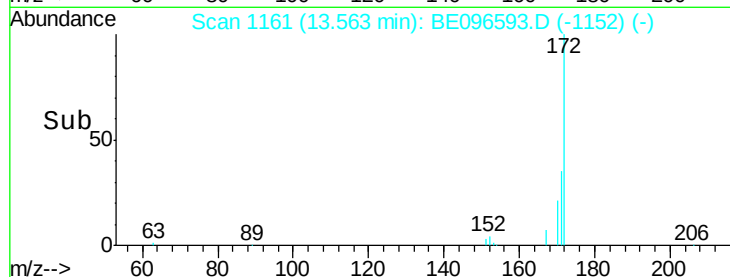
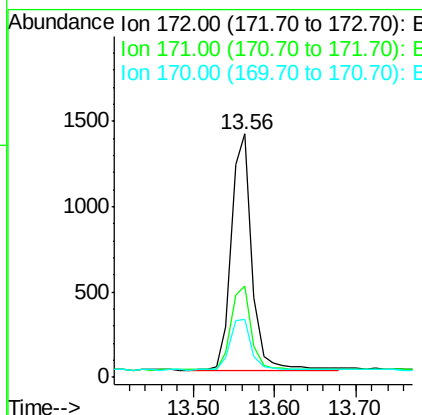
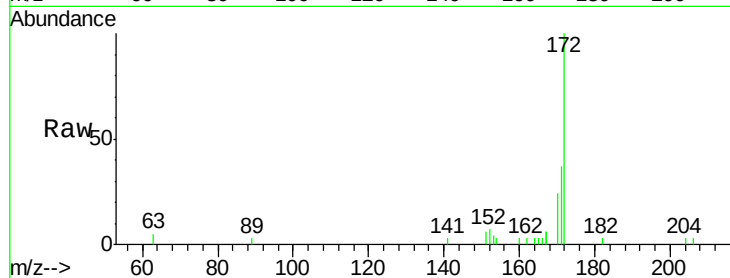




#15
2-Fluorobiphenyl
Concen: 0.344 ng
RT: 13.56 min Scan# 1161
Delta R.T. 0.00 min
Lab File: BE096593.D
Acq: 16 May 2018 14:55

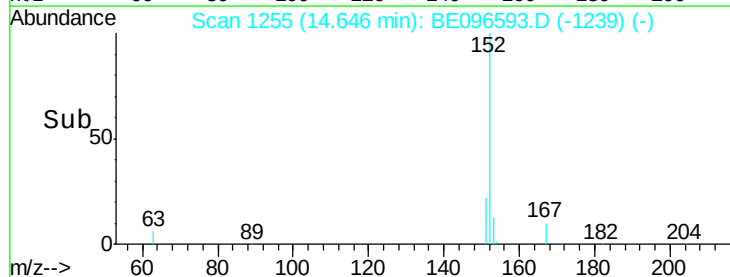
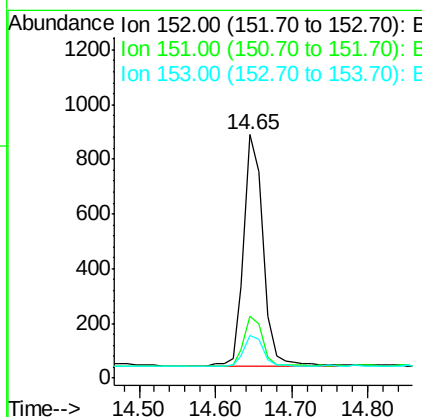
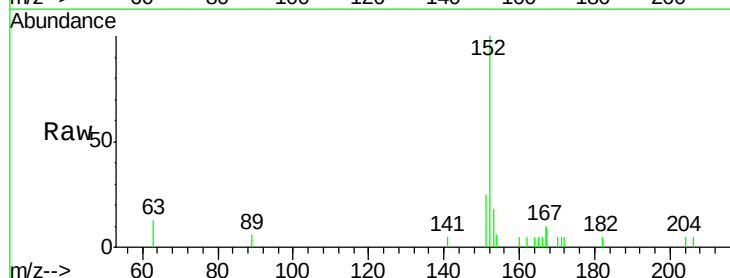
Instrument :
BNA_E
ClientSampleId :
LOQ-SOIL-02-QT2-2018

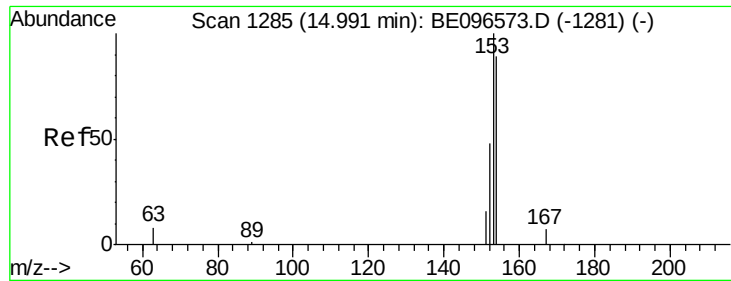
Tgt Ion:172 Resp: 2423
Ion Ratio Lower Upper
172 100
171 37.4 29.9 44.9
170 23.6 21.8 32.8



#16
Acenaphthylene
Concen: 0.175 ng
RT: 14.65 min Scan# 1255
Delta R.T. -0.01 min
Lab File: BE096593.D
Acq: 16 May 2018 14:55

Tgt Ion:152 Resp: 1501
Ion Ratio Lower Upper
152 100
151 20.3 15.7 23.5
153 13.1 10.5 15.7

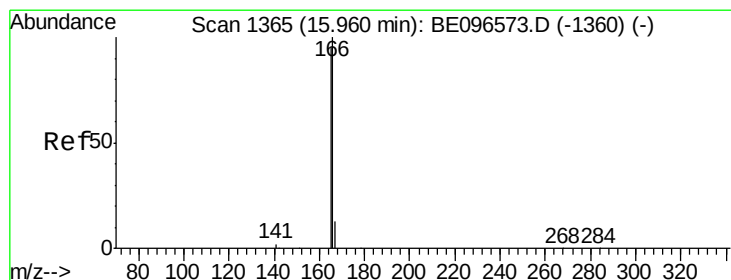
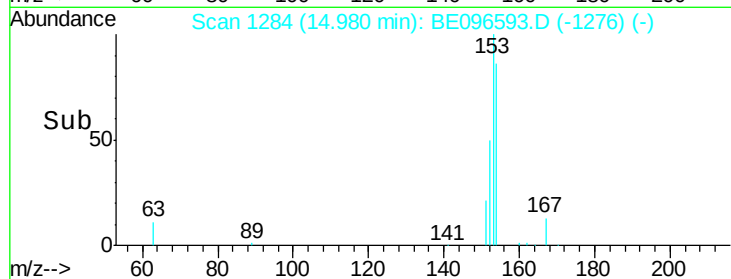
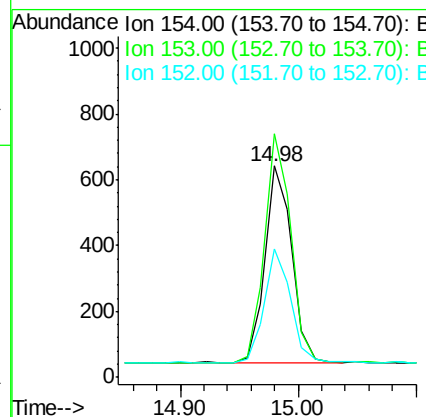
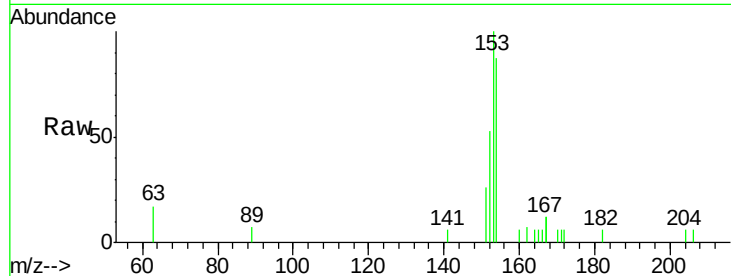




#17
Acenaphthene
Concen: 0.182 ng
RT: 14.98 min Scan# 1284
Delta R.T. -0.01 min
Lab File: BE096593.D
Acq: 16 May 2018 14:55

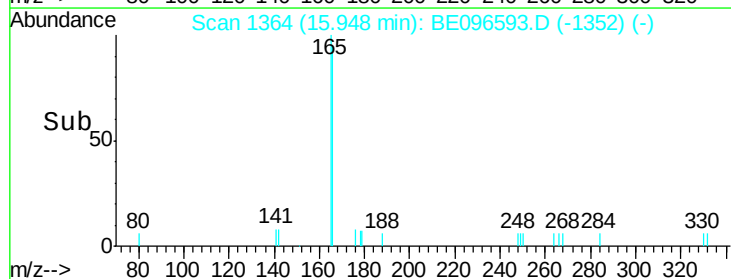
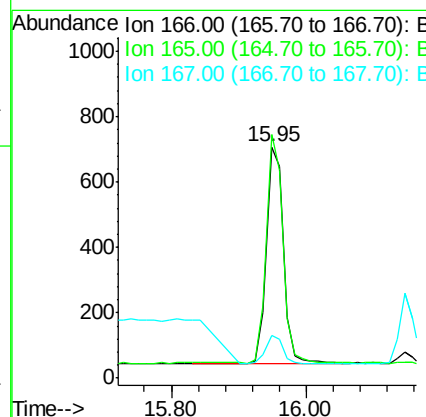
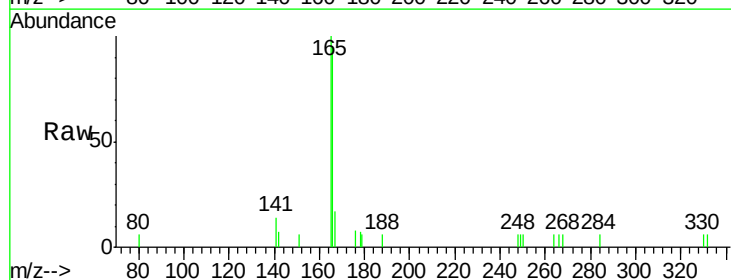
Instrument :
BNA_E
ClientSampleId :
LOQ-SOIL-02-QT2-2018

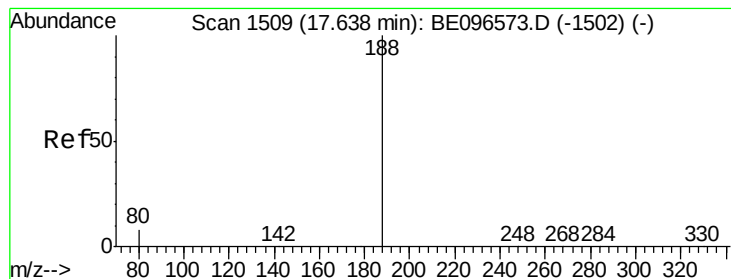
Tgt Ion:154 Resp: 948
Ion Ratio Lower Upper
154 100
153 114.7 89.2 133.8
152 56.0 42.0 63.0



#18
Fluorene
Concen: 0.223 ng
RT: 15.95 min Scan# 1364
Delta R.T. -0.01 min
Lab File: BE096593.D
Acq: 16 May 2018 14:55

Tgt Ion:166 Resp: 1448
Ion Ratio Lower Upper
166 100
165 80.7 77.8 116.6
167 10.7 42.4 63.6#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.64 min Scan# 1509

Delta R.T. 0.00 min

Lab File: BE096593.D

Acq: 16 May 2018 14:55

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL-02-QT2-2018

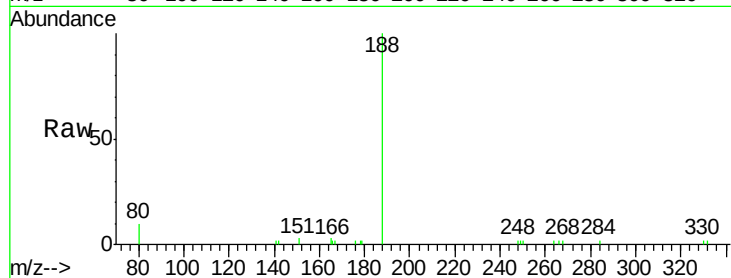
Tgt Ion:188 Resp: 3742

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

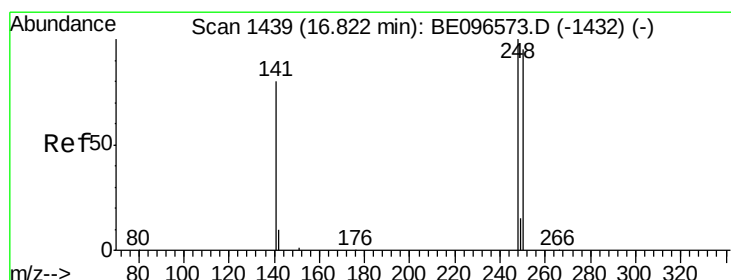
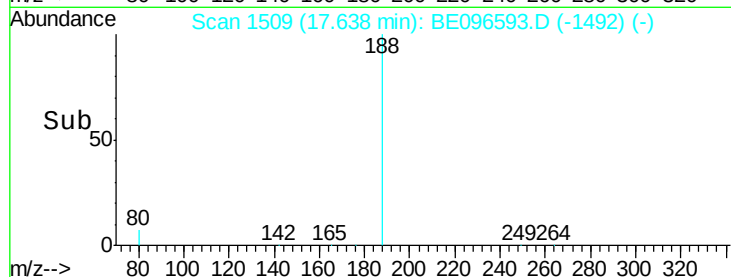
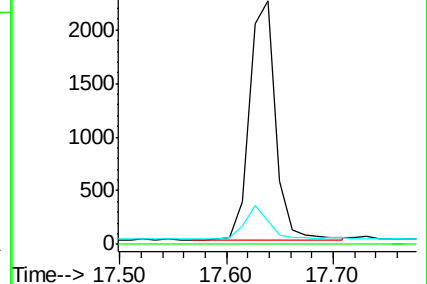
80 9.6 3.6 5.4#



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

4-Bromophenyl-phenylether

Concen: 0.181 ng

RT: 16.82 min Scan# 1439

Delta R.T. 0.00 min

Lab File: BE096593.D

Acq: 16 May 2018 14:55

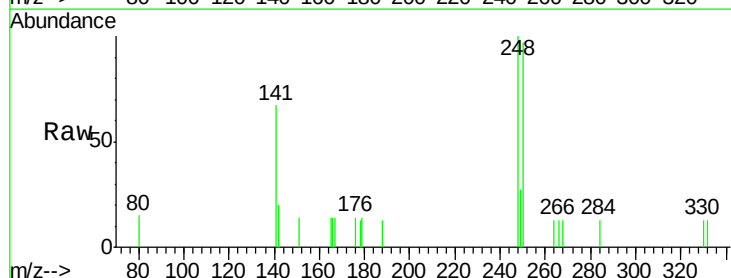
Tgt Ion:248 Resp: 410

Ion Ratio Lower Upper

248 100

250 97.0 62.7 94.1#

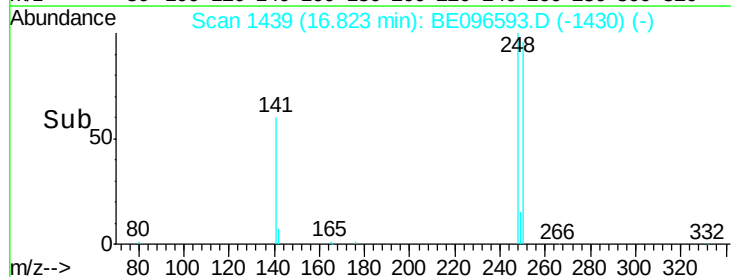
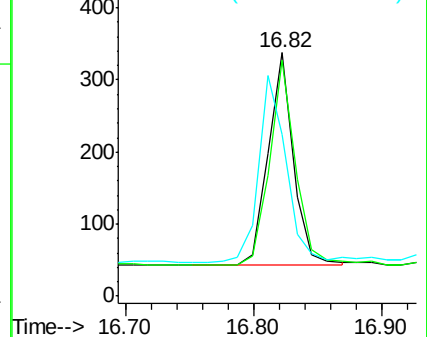
141 66.6 48.2 72.2

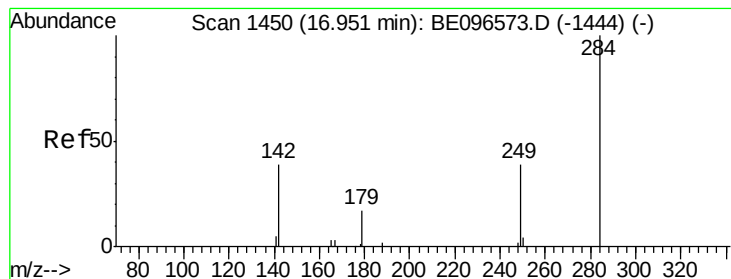


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.177 ng

RT: 16.95 min Scan# 1450

Delta R.T. 0.00 min

Lab File: BE096593.D

Acq: 16 May 2018 14:55

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL-02-QT2-2018

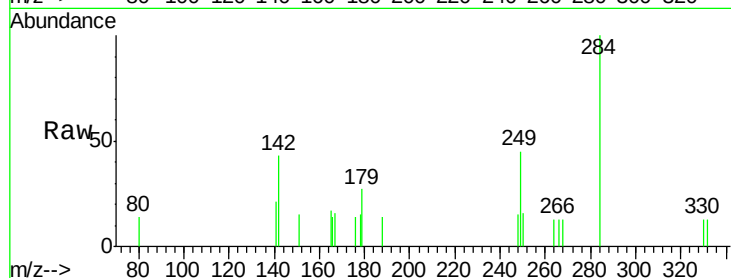
Tgt Ion:284 Resp: 418

Ion Ratio Lower Upper

284 100

142 46.2 22.1 33.1#

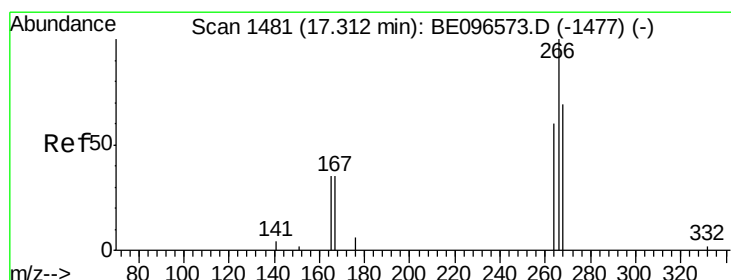
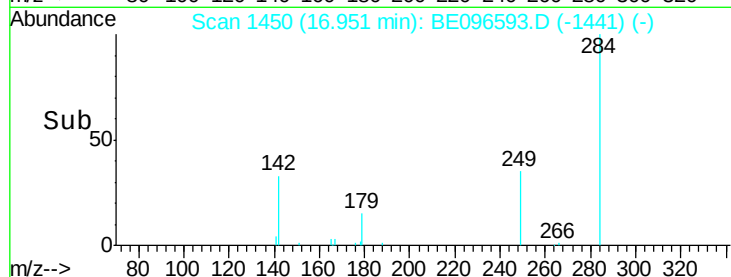
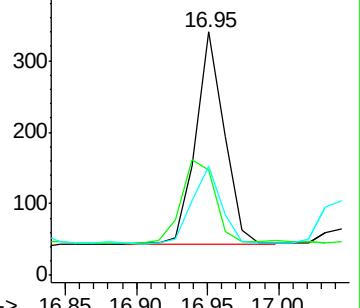
249 38.5 34.8 52.2



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#22

Pentachlorophenol

Concen: 0.277 ng

RT: 17.31 min Scan# 1481

Delta R.T. 0.00 min

Lab File: BE096593.D

Acq: 16 May 2018 14:55

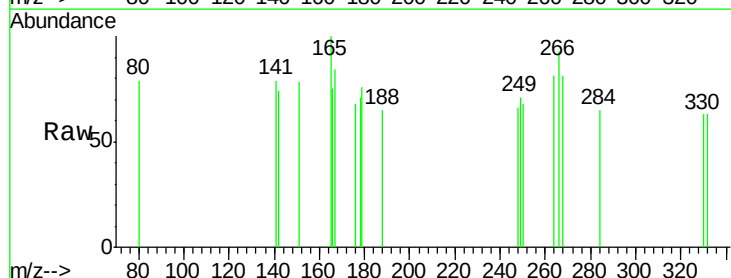
Tgt Ion:266 Resp: 72

Ion Ratio Lower Upper

266 100

264 87.3 72.5 108.7

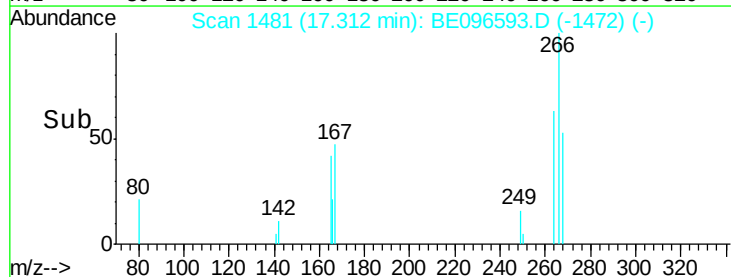
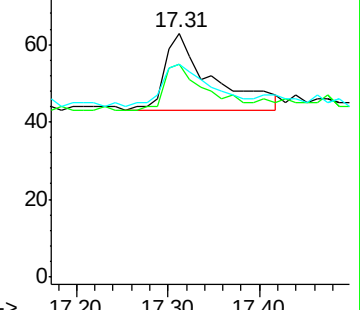
268 87.3 73.8 110.6

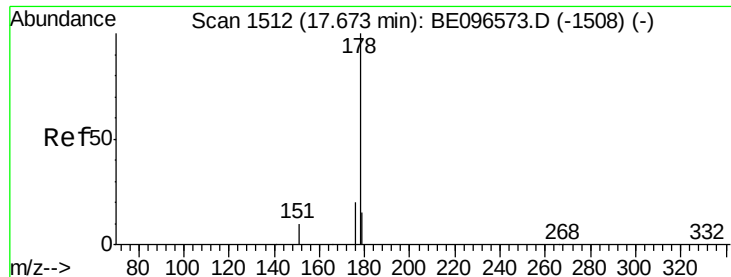


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.184 ng

RT: 17.67 min Scan# 1512

Delta R.T. 0.00 min

Lab File: BE096593.D

Acq: 16 May 2018 14:55

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL-02-QT2-2018

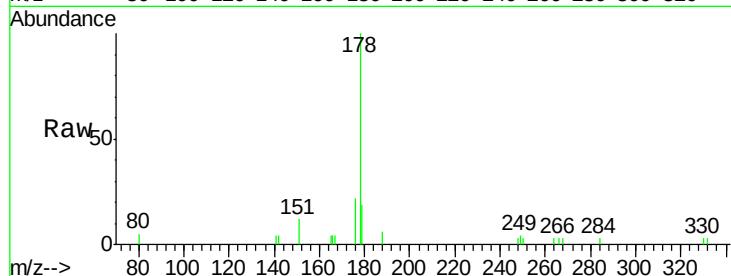
Tgt Ion:178 Resp: 1938

Ion Ratio Lower Upper

178 100

176 19.7 15.1 22.7

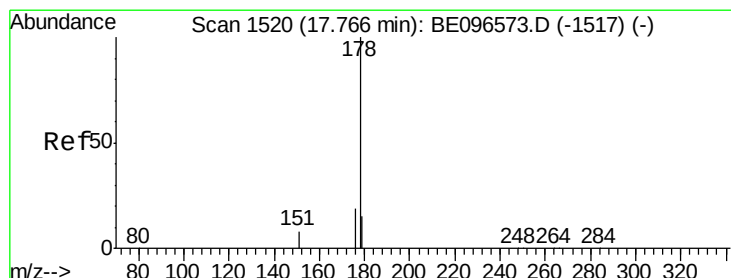
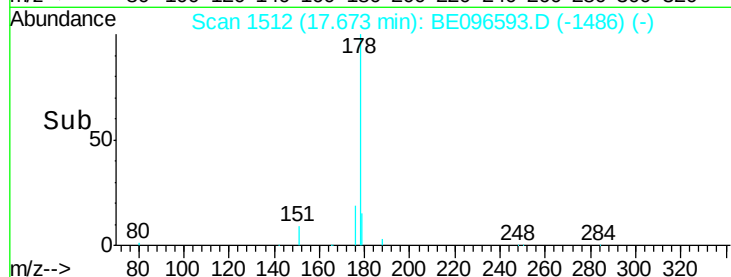
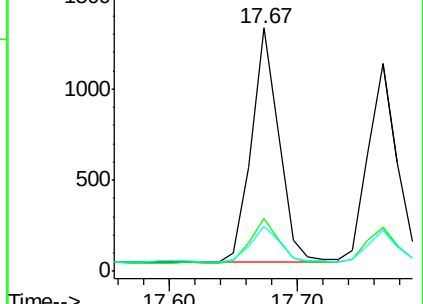
179 15.8 11.8 17.6



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

Anthracene

Concen: 0.176 ng

RT: 17.77 min Scan# 1520

Delta R.T. 0.00 min

Lab File: BE096593.D

Acq: 16 May 2018 14:55

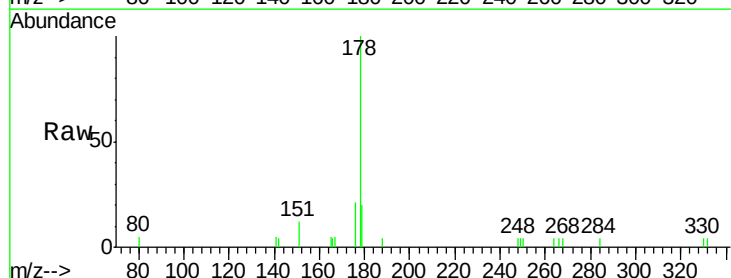
Tgt Ion:178 Resp: 1725

Ion Ratio Lower Upper

178 100

176 18.6 12.8 19.2

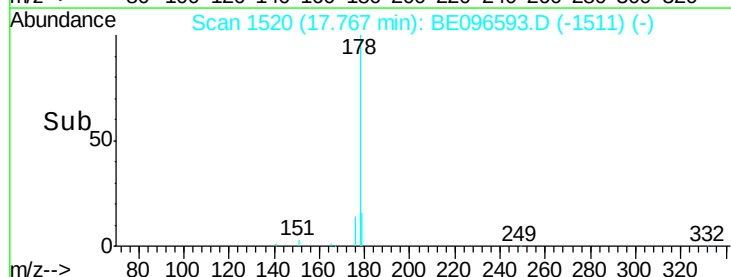
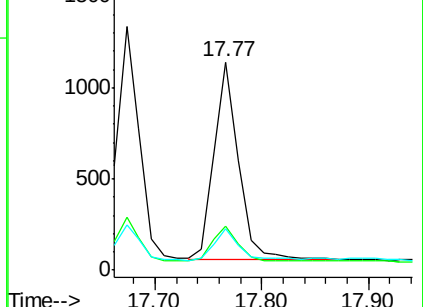
179 17.4 13.0 19.6

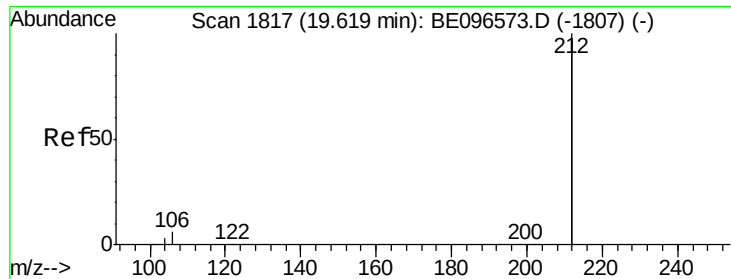


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

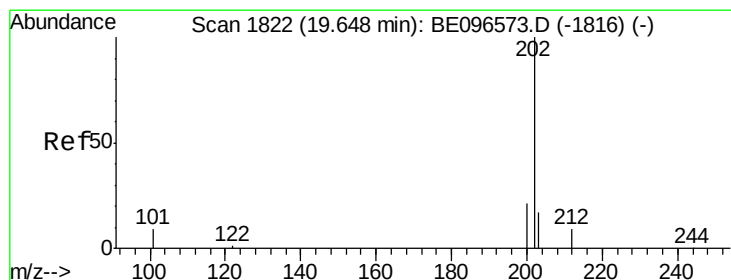
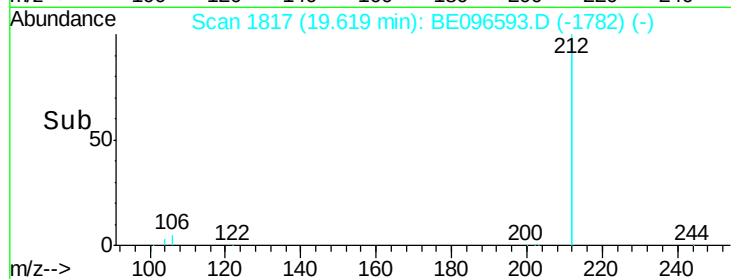
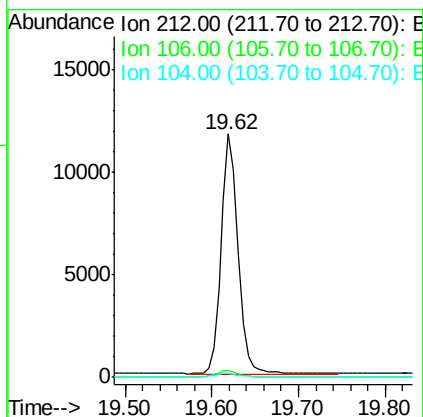
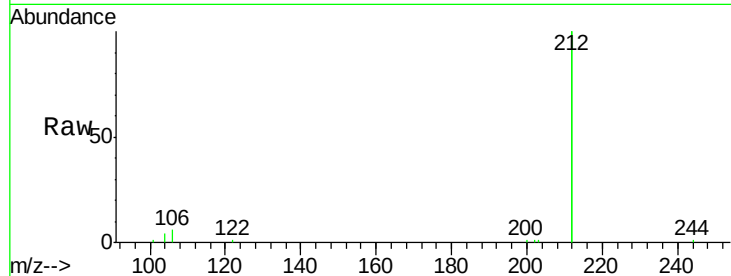




#25
 Fluoranthene-d10
 Concen: 0.350 ng
 RT: 19.62 min Scan# 1817
 Delta R.T. -0.00 min
 Lab File: BE096593.D
 Acq: 16 May 2018 14:55

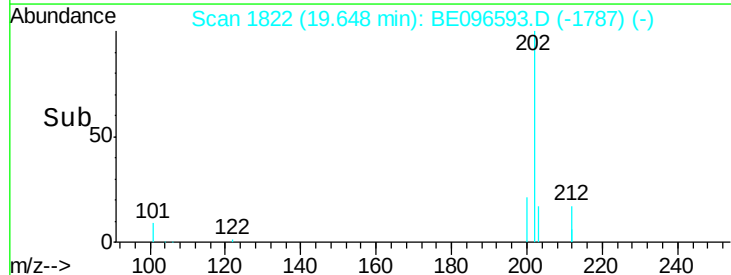
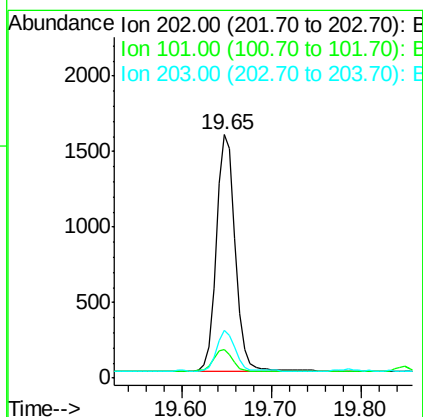
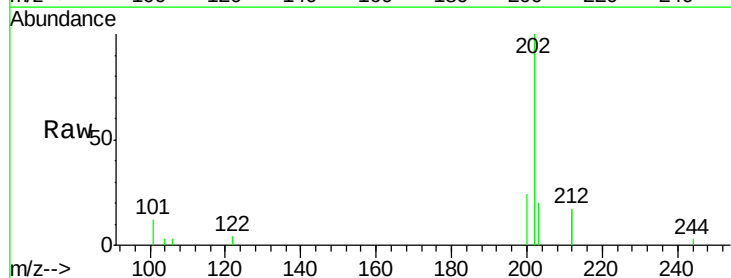
Instrument :
 BNA_E
 ClientSampleId :
 LOQ-SOIL-02-QT2-2018

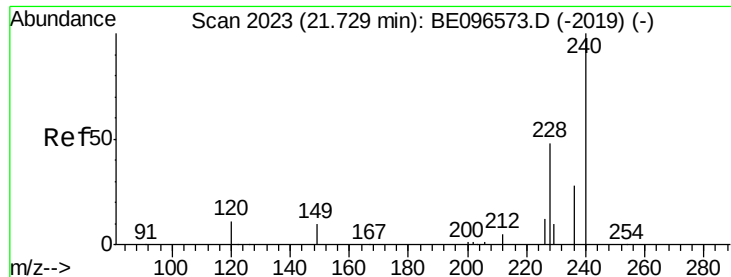
Tgt Ion:212 Resp: 15992
 Ion Ratio Lower Upper
 212 100
 106 2.8 2.8 4.2#
 104 1.6 1.6 2.4#



#26
 Fluoranthene
 Concen: 0.183 ng
 RT: 19.65 min Scan# 1822
 Delta R.T. -0.00 min
 Lab File: BE096593.D
 Acq: 16 May 2018 14:55

Tgt Ion:202 Resp: 2296
 Ion Ratio Lower Upper
 202 100
 101 9.4 9.8 14.8#
 203 16.9 13.7 20.5





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.73 min Scan# 2023

Delta R.T. 0.00 min

Lab File: BE096593.D

Acq: 16 May 2018 14:55

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL-02-QT2-2018

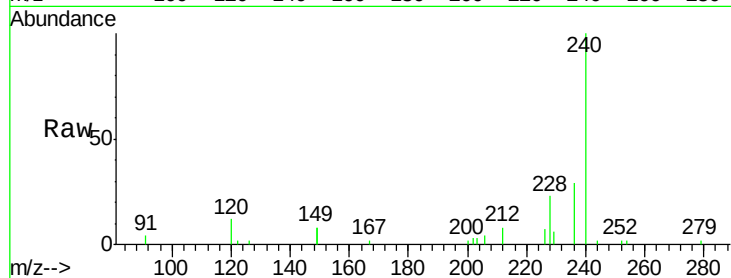
Tgt Ion:240 Resp: 3543

Ion Ratio Lower Upper

240 100

120 12.3 5.5 8.3#

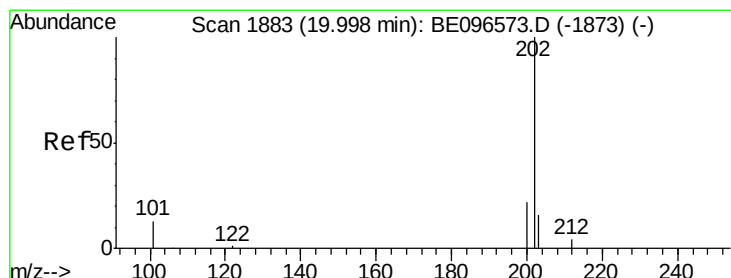
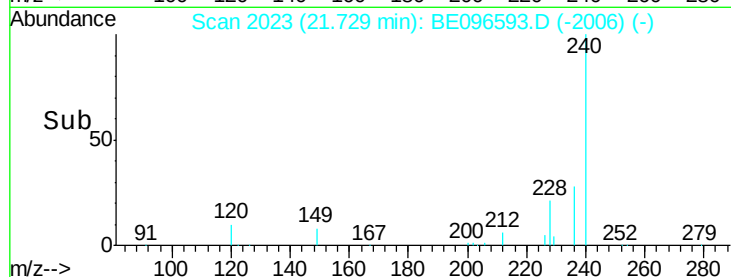
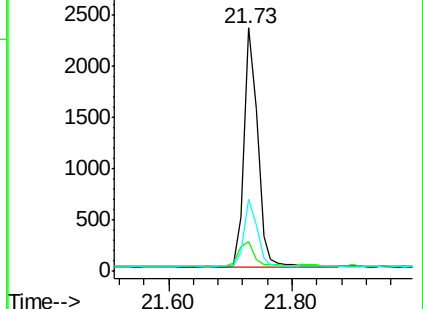
236 29.4 20.7 31.1



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



#28

Pyrene

Concen: 0.193 ng

RT: 20.00 min Scan# 1883

Delta R.T. -0.00 min

Lab File: BE096593.D

Acq: 16 May 2018 14:55

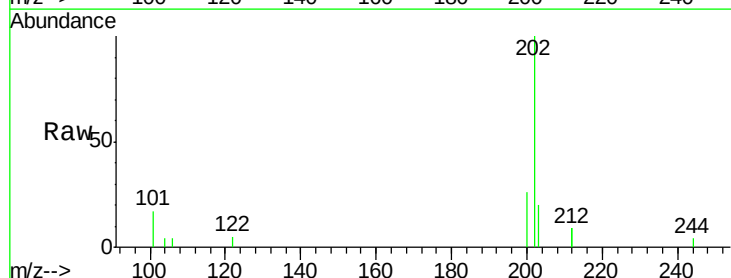
Tgt Ion:202 Resp: 1236

Ion Ratio Lower Upper

202 100

200 22.8 16.6 25.0

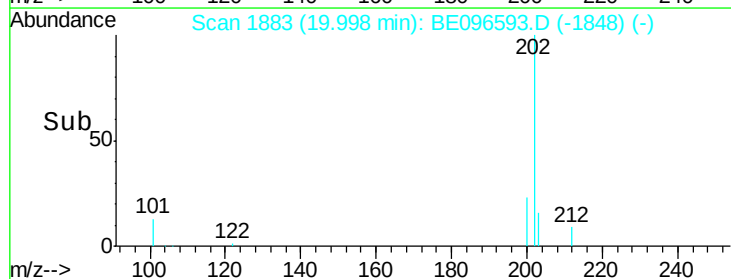
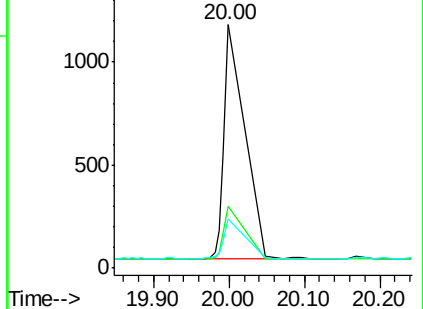
203 17.3 13.8 20.8

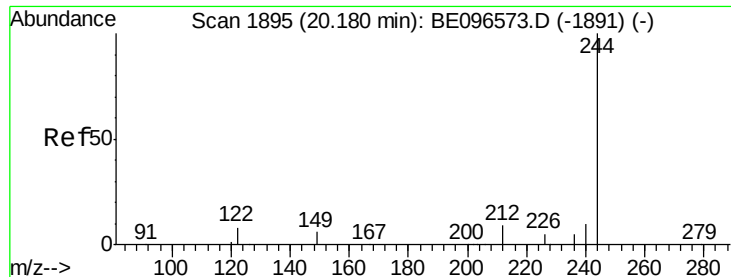


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.333 ng

RT: 20.18 min Scan# 1895

Delta R.T. 0.00 min

Lab File: BE096593.D

Acq: 16 May 2018 14:55

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL-02-QT2-2018

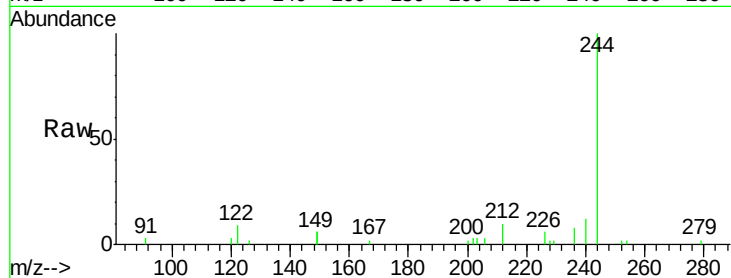
Tgt Ion:244 Resp: 2672

Ion Ratio Lower Upper

244 100

212 10.2 25.4 38.0#

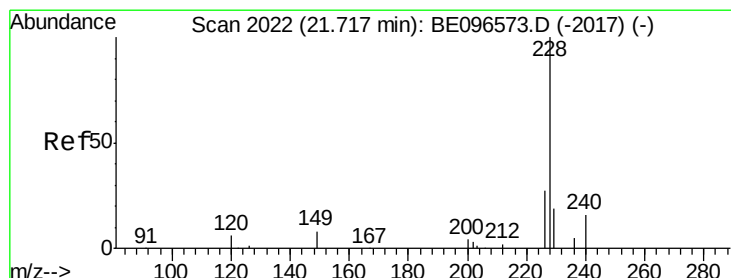
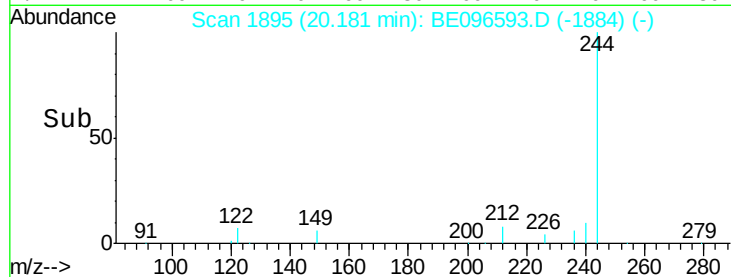
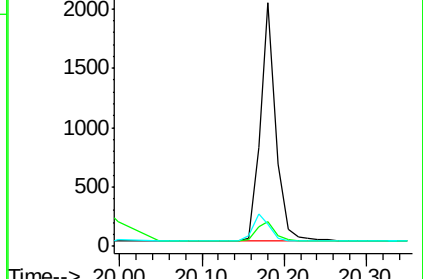
122 8.8 8.1 12.1



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



#30

Benzo(a)anthracene

Concen: 0.184 ng

RT: 21.72 min Scan# 2022

Delta R.T. 0.00 min

Lab File: BE096593.D

Acq: 16 May 2018 14:55

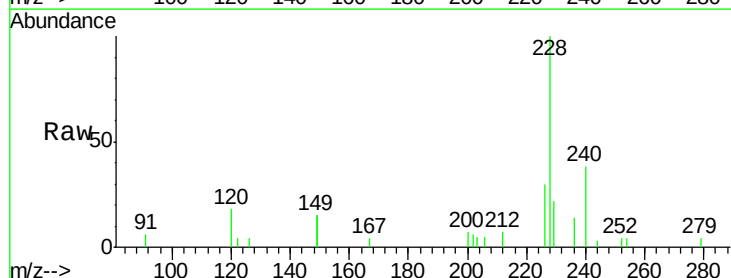
Tgt Ion:228 Resp: 2002

Ion Ratio Lower Upper

228 100

226 29.6 24.0 36.0

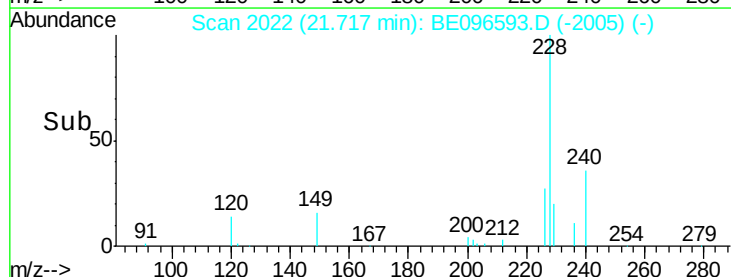
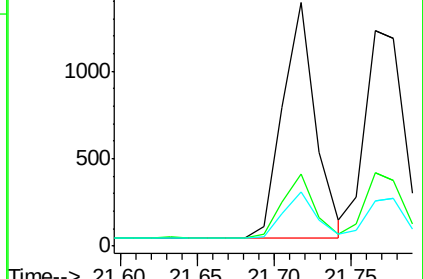
229 22.5 16.0 24.0

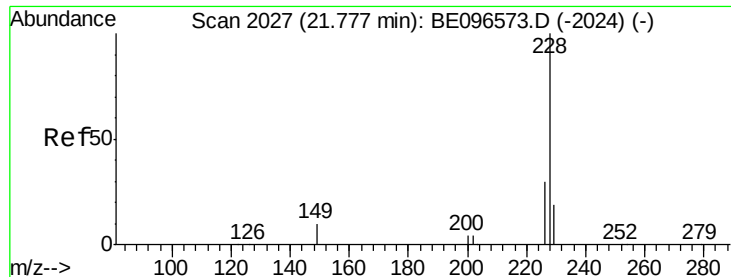


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.184 ng

RT: 21.77 min Scan# 2026

Delta R.T. -0.01 min

Lab File: BE096593.D

Acq: 16 May 2018 14:55

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL-02-QT2-2018

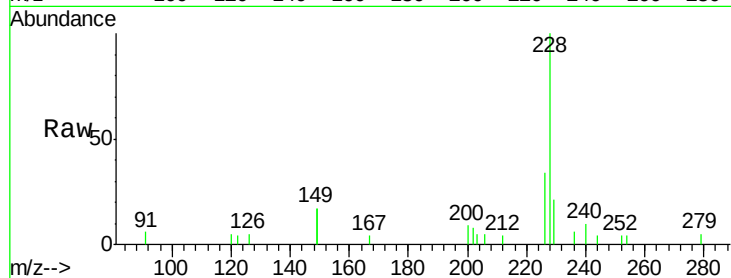
Tgt Ion:228 Resp: 2090

Ion Ratio Lower Upper

228 100

226 33.8 24.0 36.0

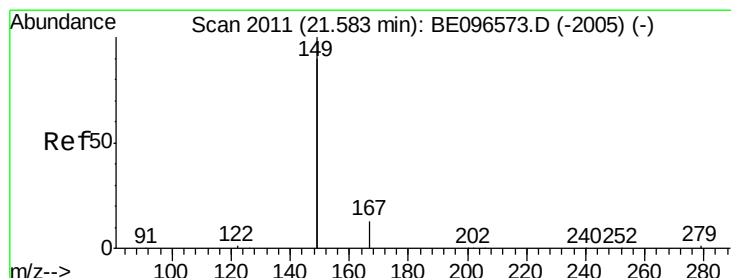
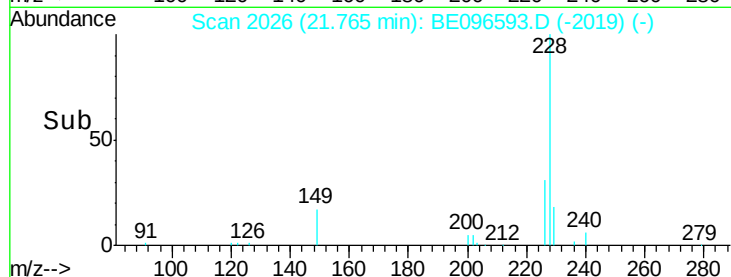
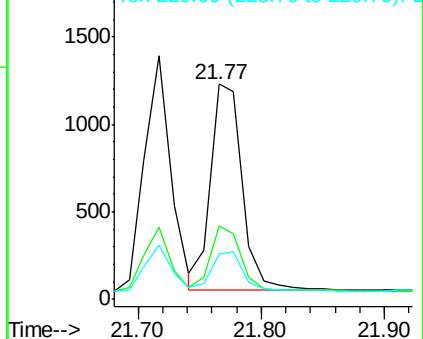
229 21.2 16.0 24.0



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



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.163 ng

RT: 21.58 min Scan# 2011

Delta R.T. 0.00 min

Lab File: BE096593.D

Acq: 16 May 2018 14:55

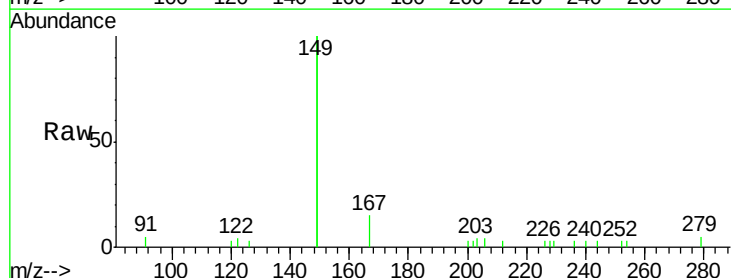
Tgt Ion:149 Resp: 3798

Ion Ratio Lower Upper

149 100

167 6.8 5.4 8.0

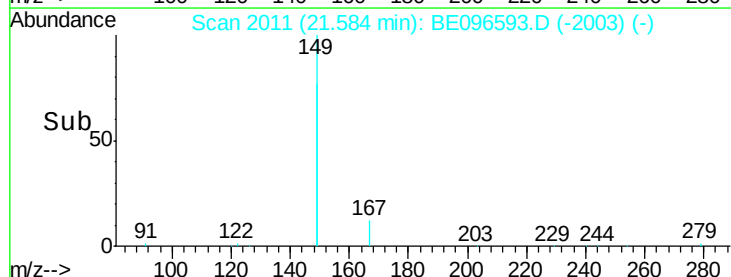
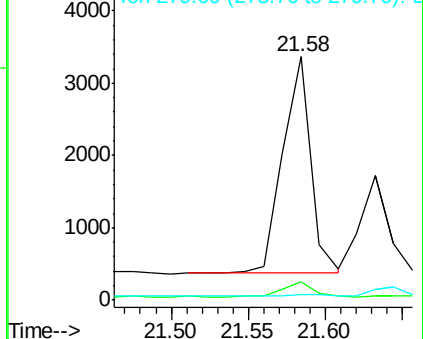
279 0.9 0.7 1.1

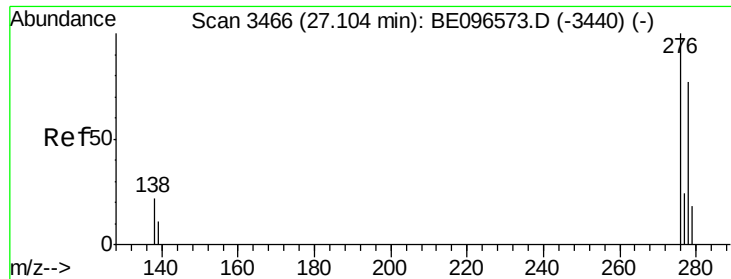


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.175 ng

RT: 27.10 min Scan# 3464

Delta R.T. -0.01 min

Lab File: BE096593.D

Acq: 16 May 2018 14:55

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL-02-QT2-2018

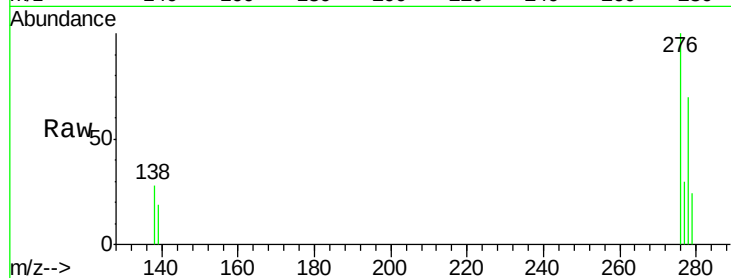
Tgt Ion:276 Resp: 1907

Ion Ratio Lower Upper

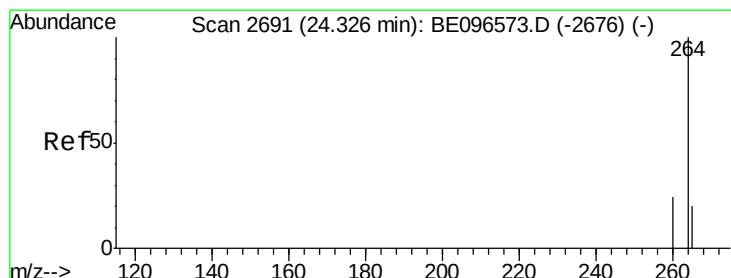
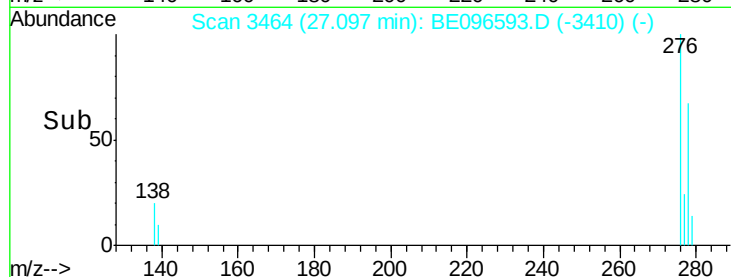
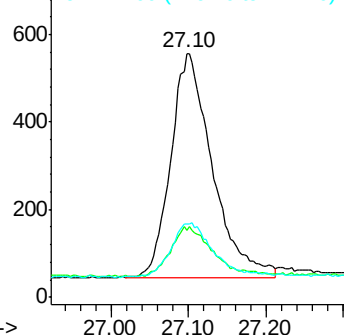
276 100

138 21.4 22.5 33.7#

277 25.1 19.9 29.9



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



#34

Perylene-d12

Concen: 0.400 ng

RT: 24.33 min Scan# 2692

Delta R.T. 0.00 min

Lab File: BE096593.D

Acq: 16 May 2018 14:55

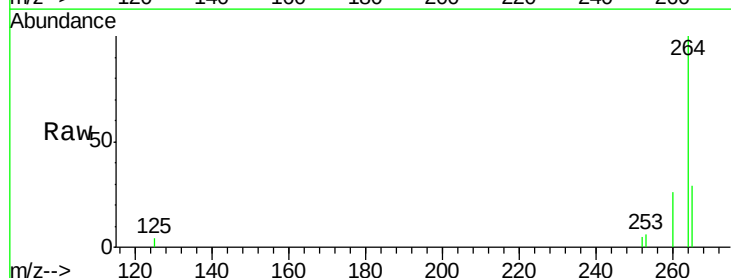
Tgt Ion:264 Resp: 3264

Ion Ratio Lower Upper

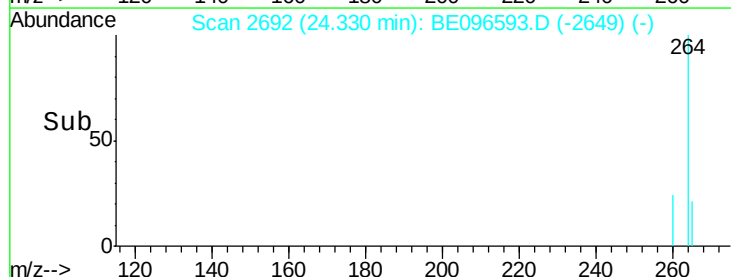
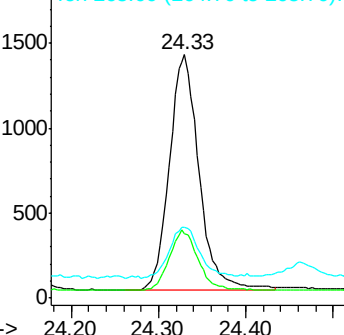
264 100

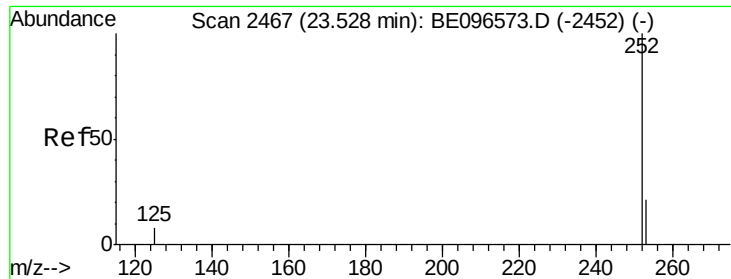
260 26.4 20.5 30.7

265 29.1 22.8 34.2



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





#35

Benzo(b)fluoranthene

Concen: 0.177 ng

RT: 23.52 min Scan# 2466

Delta R.T. -0.00 min

Lab File: BE096593.D

Acq: 16 May 2018 14:55

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL-02-QT2-2018

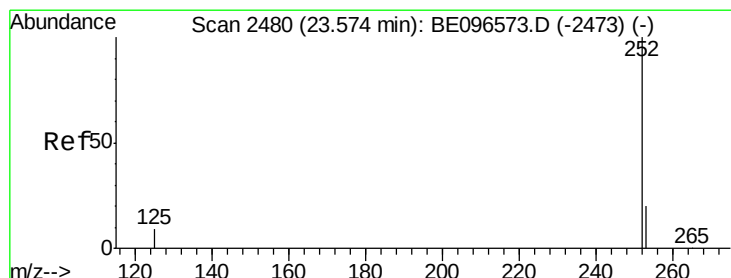
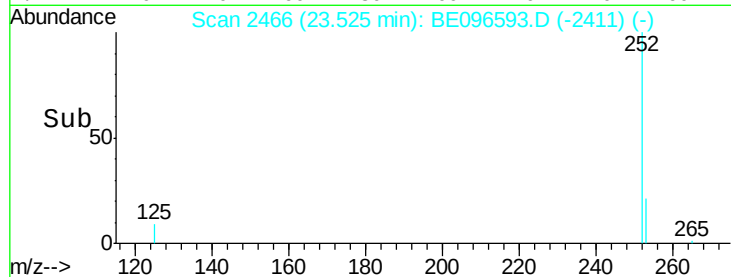
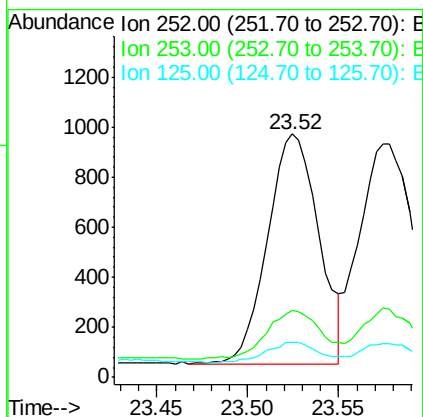
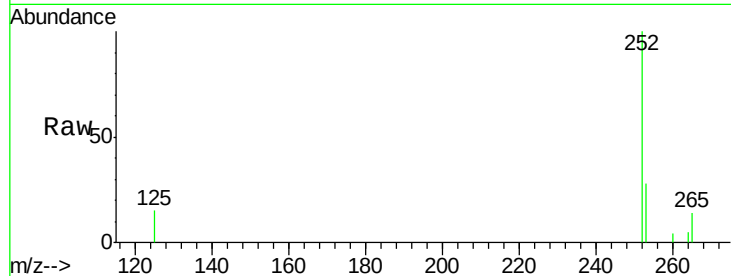
Tgt Ion:252 Resp: 1783

Ion Ratio Lower Upper

252 100

253 27.5 20.0 30.0

125 14.6 16.0 24.0#



#36

Benzo(k)fluoranthene

Concen: 0.179 ng

RT: 23.57 min Scan# 2480

Delta R.T. 0.00 min

Lab File: BE096593.D

Acq: 16 May 2018 14:55

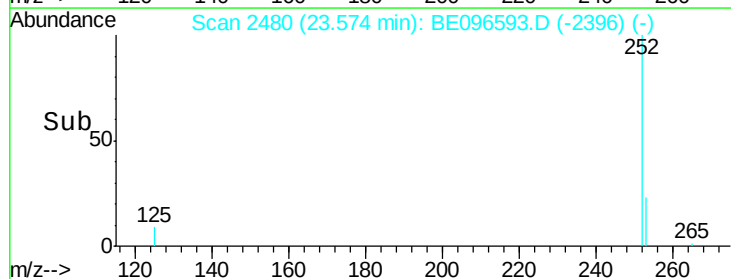
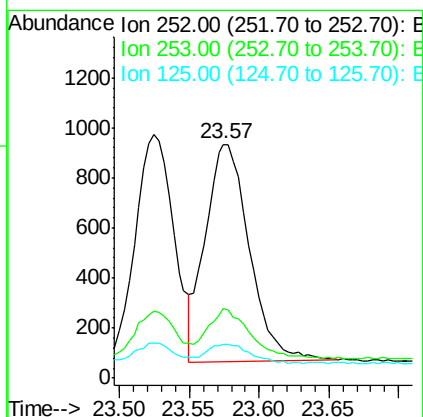
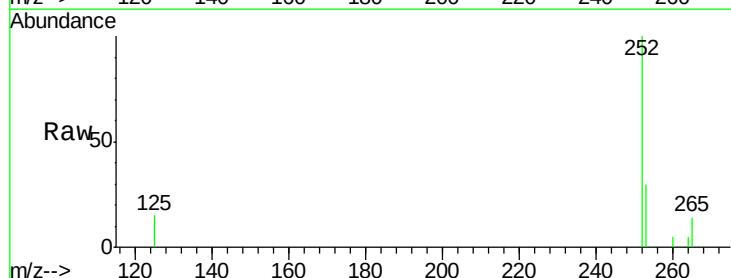
Tgt Ion:252 Resp: 1903

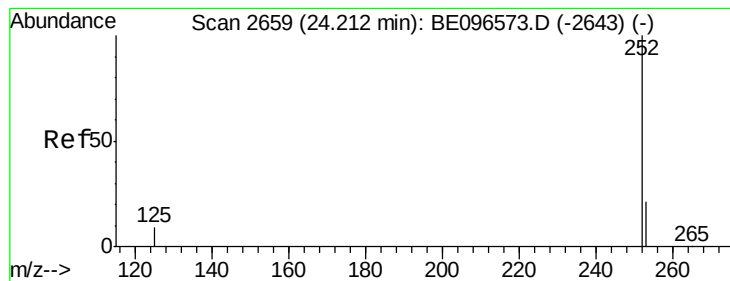
Ion Ratio Lower Upper

252 100

253 29.8 16.0 24.0#

125 14.7 8.0 12.0#





#37

Benzo(a)pyrene

Concen: 0.177 ng

RT: 24.21 min Scan# 2659

Delta R.T. 0.00 min

Lab File: BE096593.D

Acq: 16 May 2018 14:55

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL-02-QT2-2018

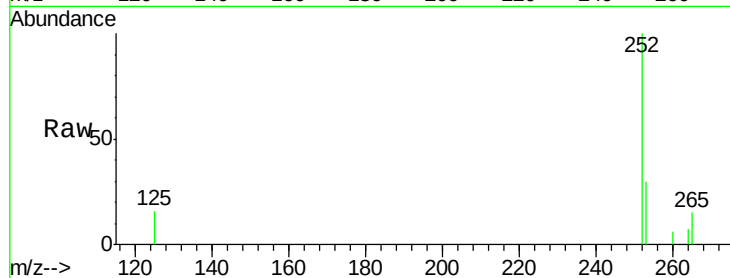
Tgt Ion:252 Resp: 1707

Ion Ratio Lower Upper

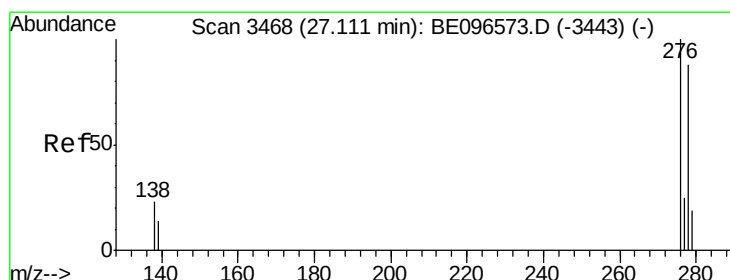
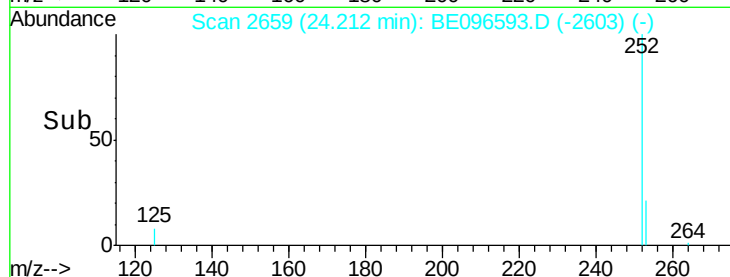
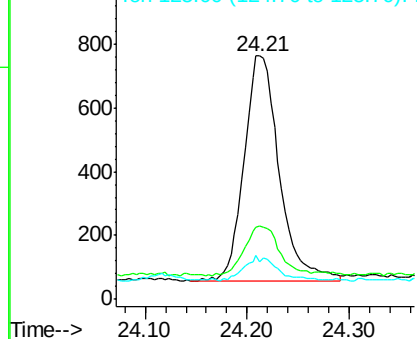
252 100

253 30.1 16.0 24.0#

125 15.6 12.0 18.0



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



#38

Dibenzo(a,h)anthracene

Concen: 0.176 ng

RT: 27.11 min Scan# 3467

Delta R.T. -0.00 min

Lab File: BE096593.D

Acq: 16 May 2018 14:55

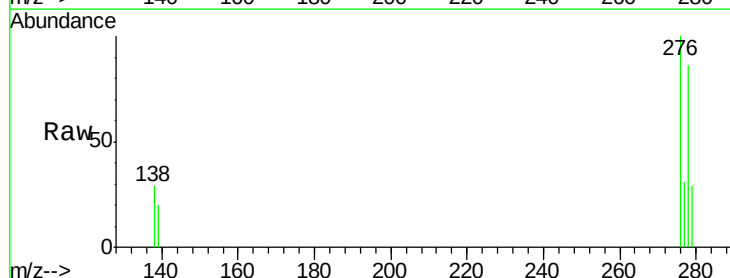
Tgt Ion:278 Resp: 1552

Ion Ratio Lower Upper

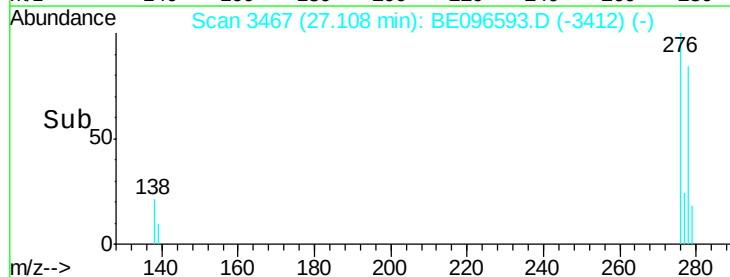
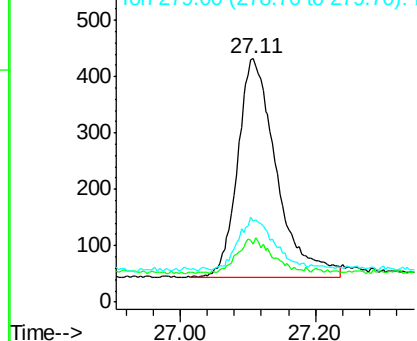
278 100

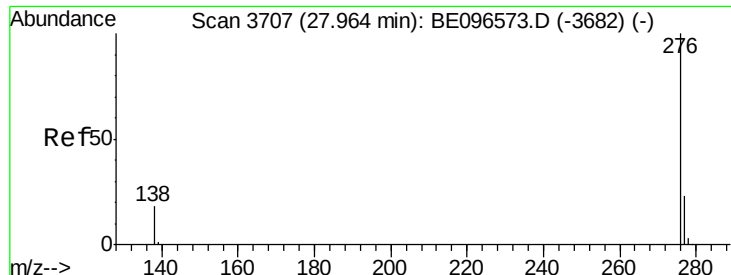
139 23.8 16.0 24.0

279 33.3 20.0 30.0#



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





#39

Benzo(g,h,i)perylene

Concen: 0.181 ng

RT: 27.96 min Scan# 3706

Delta R.T. -0.00 min

Lab File: BE096593.D

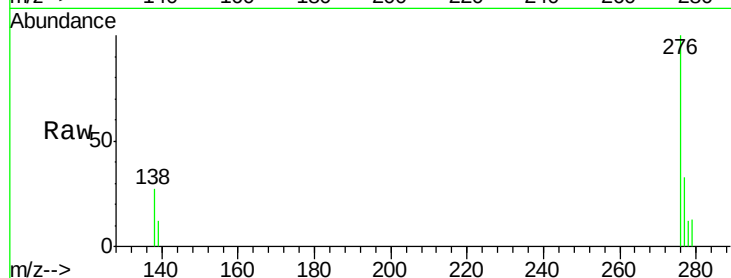
Acq: 16 May 2018 14:55

Instrument :

BNA_E

ClientSampleId :

LOQ-SOIL-02-QT2-2018



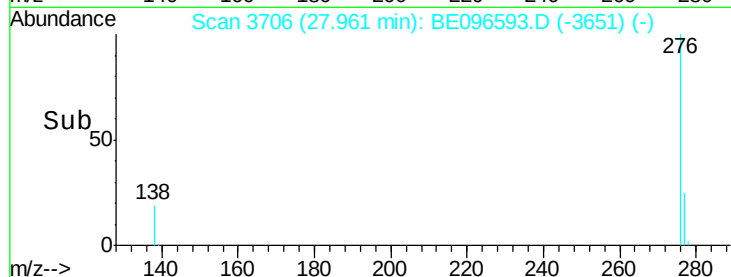
Tgt Ion: 276 Resp: 1670

Ion Ratio Lower Upper

276 100

277 32.6 16.0 24.0#

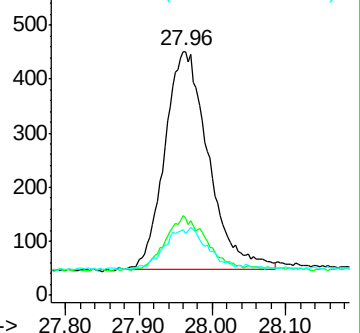
138 27.1 20.0 30.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E



Data Path : Z:\HPCHEM1\BNA_E\DATA\BE051618\
 Data File : BE096593.D
 Acq On : 16 May 2018 14:55
 Operator : SJ/JU
 Sample : J2133-02
 Misc : LOQ 0.2
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 LOQ-SOIL-02-QT2-2018

Quant Time: May 17 03:55:07 2018
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE051518.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 15 13:02:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.34	152	710	0.40	ng	0.00
7) Naphthalene-d8	11.17	136	2861	0.40	ng	-0.01
13) Acenaphthene-d10	14.92	164	1641	0.40	ng	0.00
19) Phenanthrene-d10	17.64	188	3742	0.40	ng	0.00
27) Chrysene-d12	21.73	240	3543	0.40	ng	0.00
34) Perylene-d12	24.33	264	3264	0.40	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.84	112	655	0.33	ng	-0.01
5) Phenol-d6	7.49	99	874	0.32	ng	-0.01
8) Nitrobenzene-d5	9.52	82	1057	0.35	ng	-0.01
11) 2-Methylnaphthalene-d10	12.72	152	1628	0.35	ng	0.00
14) 2,4,6-Tribromophenol	16.40	330	194	0.30	ng	0.00
15) 2-Fluorobiphenyl	13.56	172	2423	0.34	ng	0.00
25) Fluoranthene-d10	19.62	212	15992	0.35	ng	0.00
29) Terphenyl-d14	20.18	244	2672	0.33	ng	0.00

Target Compounds

						Qvalue
2) 1,4-Dioxane	3.58	88	209	0.196	ng	94
3) n-Nitrosodimethylamine	3.95	42	230	0.173	ng	# 74
6) bis(2-Chloroethyl)ether	7.74	93	483	0.186	ng	91
9) Naphthalene	11.22	128	5388	0.179	ng	# 97
10) Hexachlorobutadiene	11.48	225	277	0.165	ng	92
12) 2-Methylnaphthalene	12.79	142	896	0.174	ng	# 92
16) Acenaphthylene	14.65	152	1501	0.175	ng	99
17) Acenaphthene	14.98	154	948	0.182	ng	96
18) Fluorene	15.95	166	1448	0.223	ng	# 68
20) 4-Bromophenyl-phenylether	16.82	248	410	0.181	ng	# 84
21) Hexachlorobenzene	16.95	284	418	0.177	ng	# 81
22) Pentachlorophenol	17.31	266	72	0.277	ng	96
23) Phenanthrene	17.67	178	1938	0.184	ng	98
24) Anthracene	17.77	178	1725	0.176	ng	96
26) Fluoranthene	19.65	202	2296	0.183	ng	# 97
28) Pyrene	20.00	202	1236	0.193	ng	98
30) Benzo(a)anthracene	21.72	228	2002	0.184	ng	97
31) Chrysene	21.77	228	2090	0.184	ng	95
32) Bis(2-ethylhexyl)phthalate	21.58	149	3798	0.163	ng	100
33) Indeno(1,2,3-cd)pyrene	27.10	276	1907	0.175	ng	# 93
35) Benzo(b)fluoranthene	23.52	252	1783	0.177	ng	# 92
36) Benzo(k)fluoranthene	23.57	252	1903	0.179	ng	# 82
37) Benzo(a)pyrene	24.21	252	1707	0.177	ng	# 87
38) Dibenzo(a,h)anthracene	27.11	278	1552	0.176	ng	# 87
39) Benzo(g,h,i)perylene	27.96	276	1670	0.181	ng	# 86

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