

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN102618\
 Data File : BN003311.D
 Acq On : 26 Oct 2018 18:53
 Operator : MJ/SJ
 Sample : J5164-02
 Misc : 0.2 PPM LOQ
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

Quant Time: Oct 27 00:42:39 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN102618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 26 15:17:57 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.87	152	12186	0.40	ng	0.00
7) Naphthalene-d8	10.67	136	50797	0.40	ng	0.00
13) Acenaphthene-d10	14.50	164	29760	0.40	ng	0.00
19) Phenanthrene-d10	17.24	188	72827	0.40	ng	0.00
27) Chrysene-d12	21.42	240	78915	0.40	ng	0.00
34) Perylene-d12	23.74	264	73205	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.43	112	11687	0.39	ng	0.00
5) Phenol-d6	7.02	99	14459	0.38	ng	0.00
8) Nitrobenzene-d5	9.02	82	9858	0.44	ng	0.00
11) 2-Methylnaphthalene-d10	12.25	152	32477	0.39	ng	0.00
14) 2,4,6-Tribromophenol	15.98	330	3872	0.33	ng	0.00
15) 2-Fluorobiphenyl	13.12	172	53116	0.41	ng	-0.01
25) Fluoranthene-d10	19.27	212	78565	0.37	ng	0.00
29) Terphenyl-d14	19.87	244	72123	0.39	ng	0.00

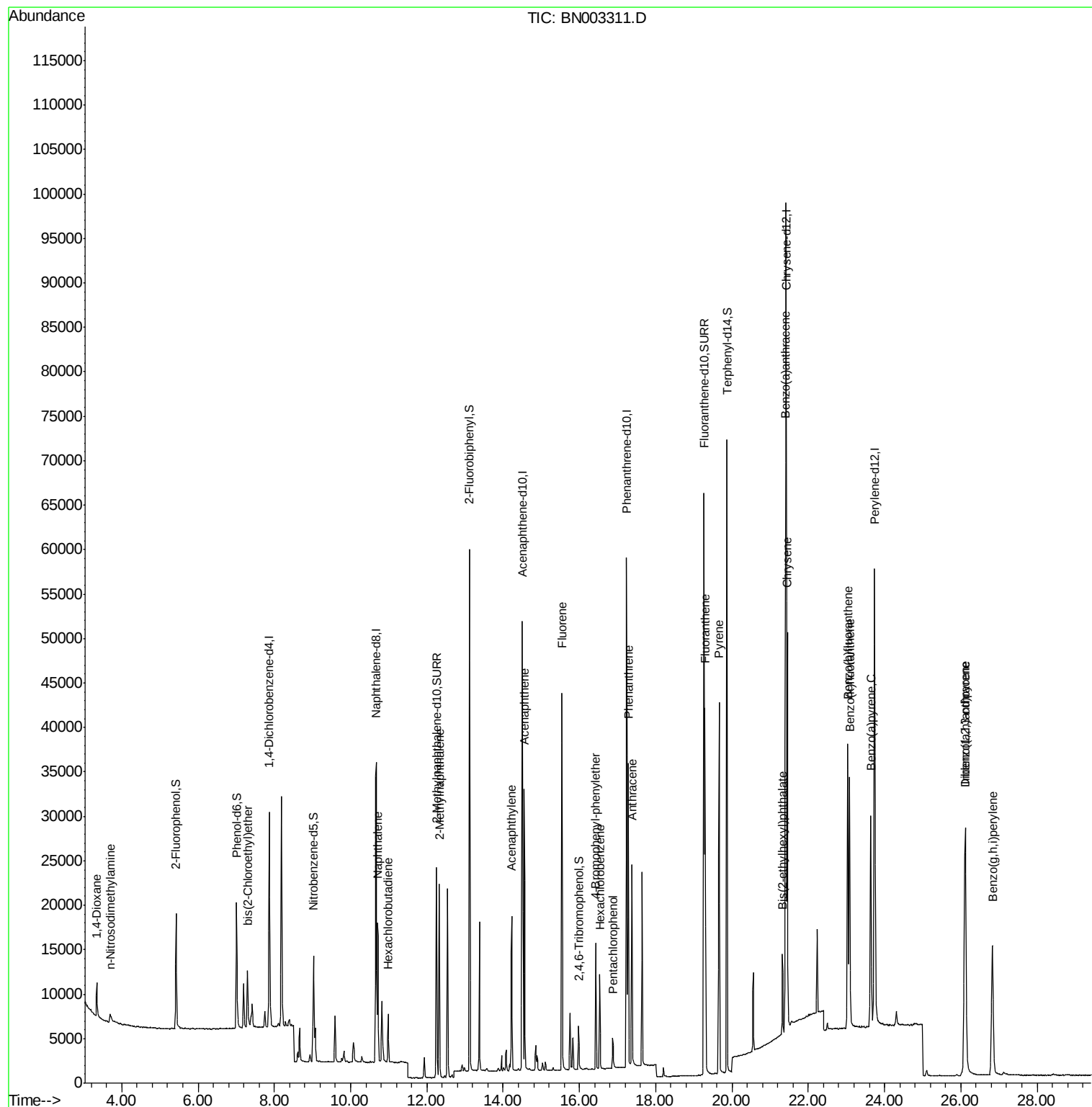
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.34	88	2874	0.182	ng	97
3) n-Nitrosodimethylamine	3.70	42	1090	0.150	ng	# 97
6) bis(2-Chloroethyl)ether	7.30	93	5757	0.169	ng	95
9) Naphthalene	10.71	128	22209	0.179	ng	99
10) Hexachlorobutadiene	10.99	225	4146	0.183	ng	# 100
12) 2-Methylnaphthalene	12.32	142	15140	0.174	ng	99
16) Acenaphthylene	14.22	152	20176	0.152	ng	99
17) Acenaphthene	14.56	154	15498	0.169	ng	98
18) Fluorene	15.55	166	19115	0.166	ng	100
20) 4-Bromophenyl-phenylether	16.43	248	7118	0.169	ng	# 73
21) Hexachlorobenzene	16.54	284	7895	0.178	ng	99
22) Pentachlorophenol	16.88	266	1807	0.150	ng	97
23) Phenanthrene	17.28	178	33786	0.169	ng	100
24) Anthracene	17.38	178	26066	0.152	ng	100
26) Fluoranthene	19.29	202	37623	0.164	ng	100
28) Pyrene	19.66	202	37738	0.173	ng	100
30) Benzo(a)anthracene	21.41	228	31247	0.151	ng	99
31) Chrysene	21.45	228	39355	0.176	ng	97
32) Bis(2-ethylhexyl)phthalate	21.32	149	8884	0.145	ng	100
33) Indeno(1,2,3-cd)pyrene	26.10	276	38715	0.168	ng	98
35) Benzo(b)fluoranthene	23.03	252	38841	0.172	ng	99
36) Benzo(k)fluoranthene	23.08	252	38138	0.169	ng	96
37) Benzo(a)pyrene	23.64	252	34106	0.164	ng	97
38) Dibenzo(a,h)anthracene	26.13	278	31231	0.161	ng	98
39) Benzo(g,h,i)perylene	26.83	276	32699	0.169	ng	100

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

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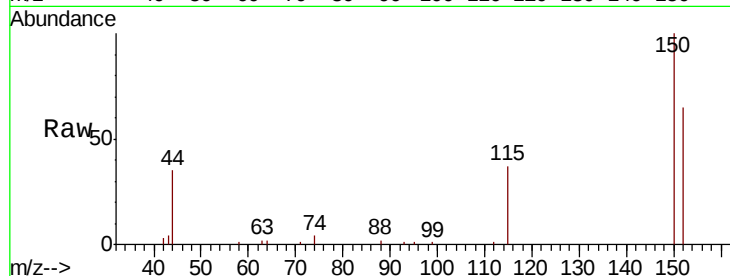


#1

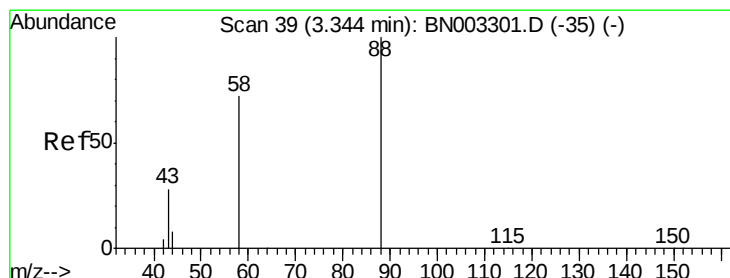
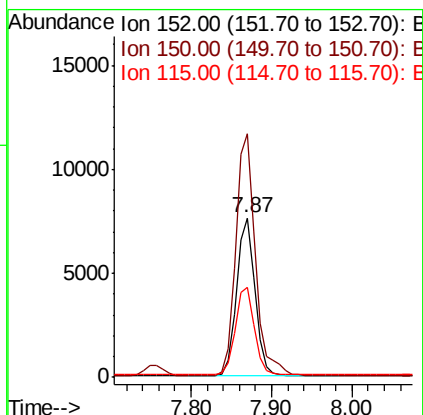
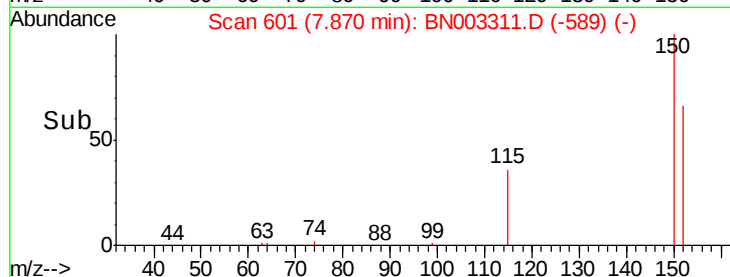
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.87 min Scan# 601
Delta R.T. -0.00 min
Lab File: BN003311.D
Acq: 26 Oct 2018 18:53

Instrument :
BNA_N
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tgt Ion: 152 Resp: 12186
Ion Ratio Lower Upper
152 100
150 152.9 124.6 187.0
115 56.7 46.4 69.6



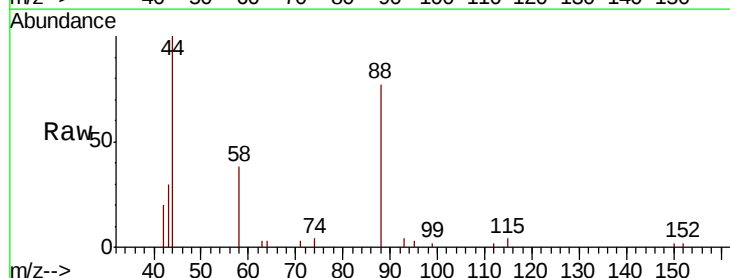
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



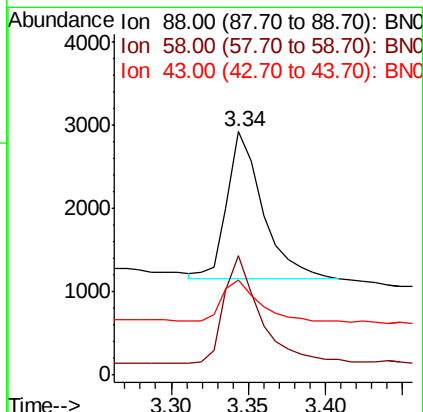
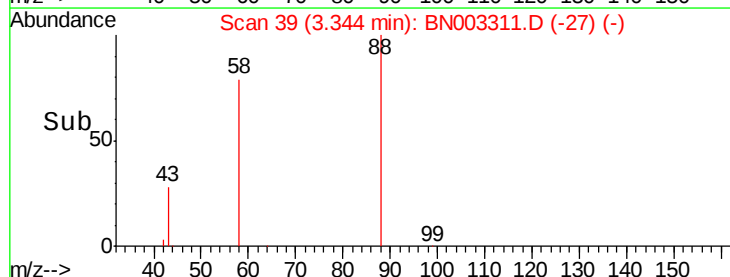
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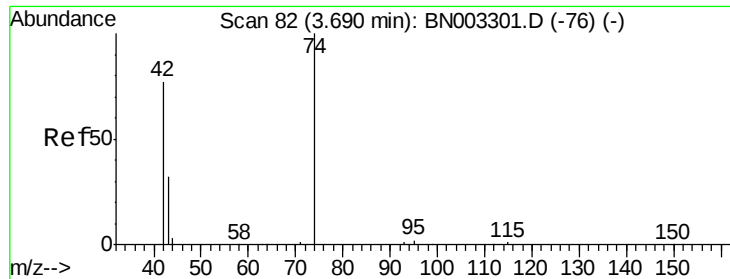
1,4-Dioxane
Concen: 0.182 ng
RT: 3.34 min Scan# 39
Delta R.T. -0.00 min
Lab File: BN003311.D
Acq: 26 Oct 2018 18:53

Tgt Ion: 88 Resp: 2874
Ion Ratio Lower Upper
88 100
58 73.7 60.9 91.3
43 27.2 23.9 35.9



Abundance Ion 88.00 (87.70 to 88.70): BNC
Ion 58.00 (57.70 to 58.70): BNC
Ion 43.00 (42.70 to 43.70): BNC





#3

n-Nitrosodimethylamine

Concen: 0.150 ng

RT: 3.70 min Scan# 83

Delta R.T. 0.01 min

Lab File: BN003311.D

Acq: 26 Oct 2018 18:53

Instrument :

BNA_N

ClientSampleId :

LOQ-SOIL-02-QT4-2018

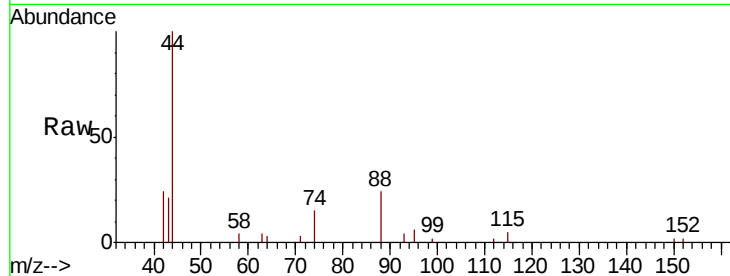
Tgt Ion: 42 Resp: 1090

Ion Ratio Lower Upper

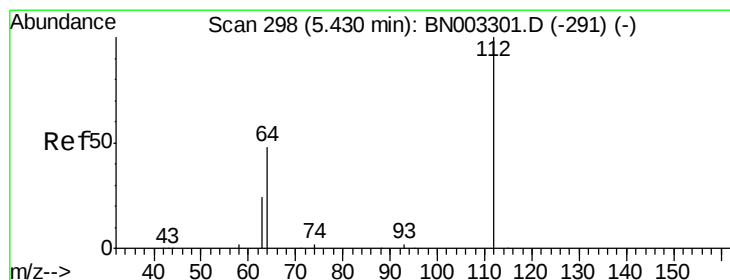
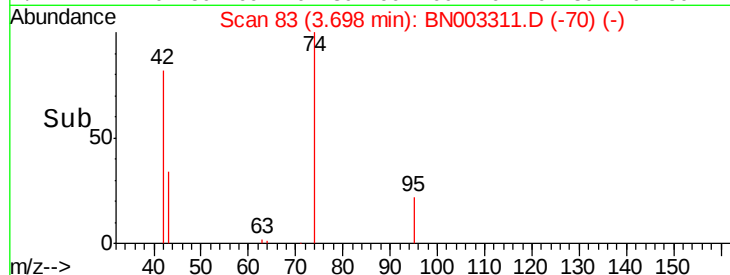
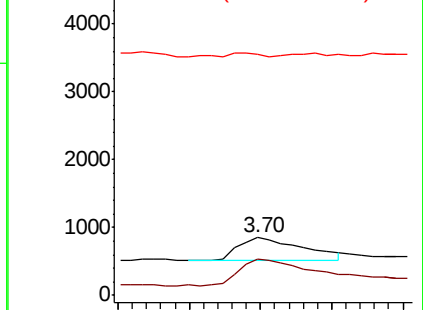
42 100

74 121.6 99.1 148.7

44 11.3 4.2 6.4#



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



#4

2-Fluorophenol

Concen: 0.387 ng

RT: 5.43 min Scan# 298

Delta R.T. -0.00 min

Lab File: BN003311.D

Acq: 26 Oct 2018 18:53

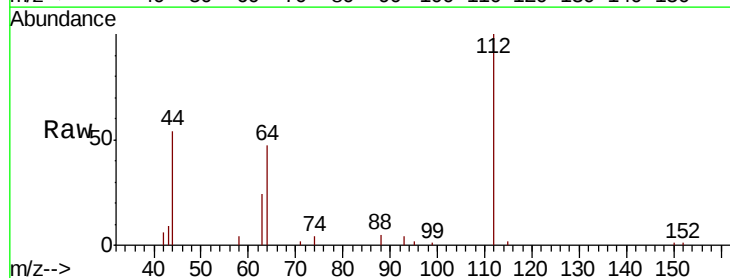
Tgt Ion: 112 Resp: 11687

Ion Ratio Lower Upper

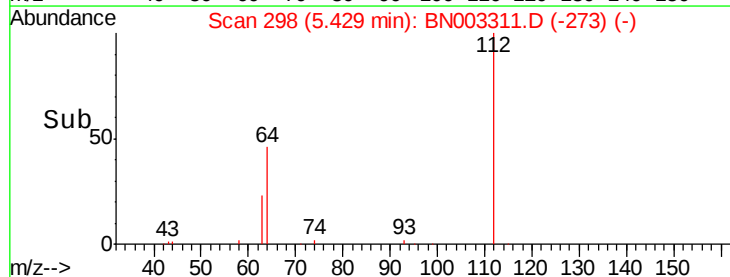
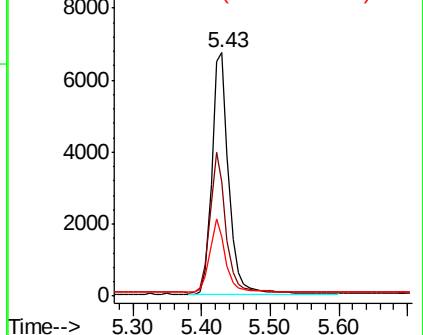
112 100

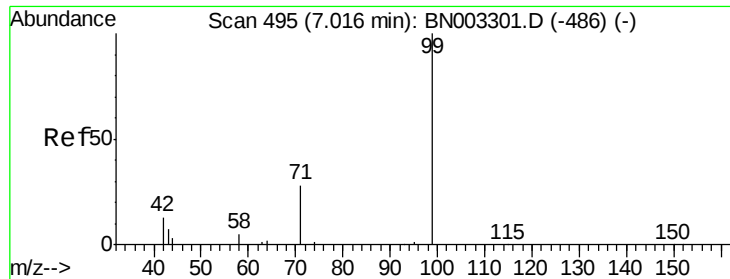
64 54.7 44.3 66.5

63 28.3 22.4 33.6



Abundance Ion 112.00 (111.70 to 112.70): BNC
Ion 64.00 (63.70 to 64.70): BNC
Ion 63.00 (62.70 to 63.70): BNC





#5

Phenol-d6

Concen: 0.380 ng

RT: 7.02 min Scan# 495

Delta R.T. -0.00 min

Lab File: BN003311.D

Acq: 26 Oct 2018 18:53

Instrument :

BNA_N

ClientSampleId :

LOQ-SOIL-02-QT4-2018

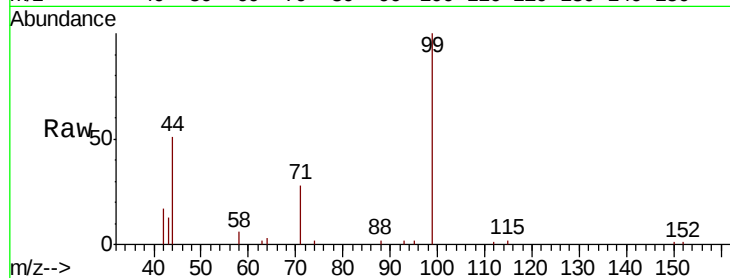
Tgt Ion: 99 Resp: 14459

Ion Ratio Lower Upper

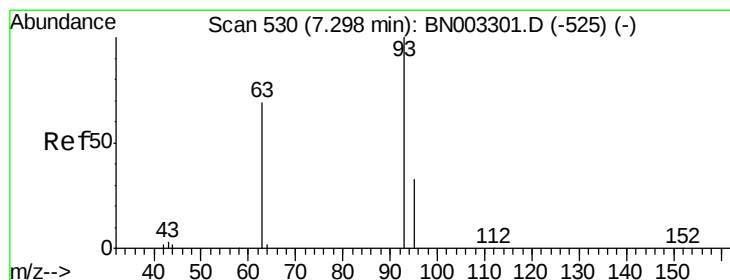
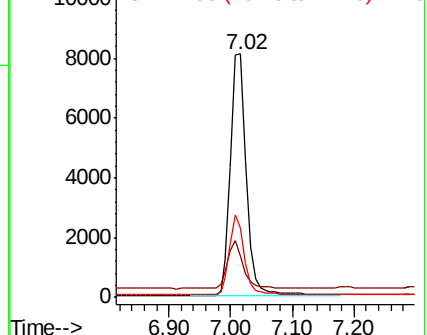
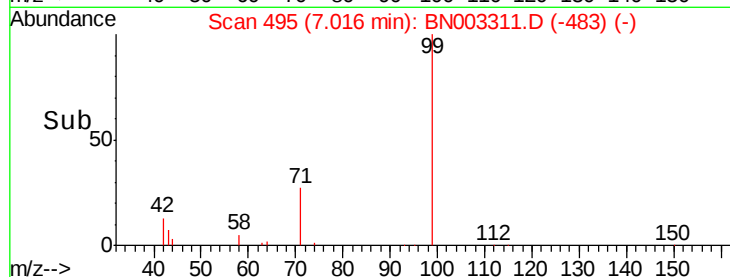
99 100

42 18.8 14.8 22.2

71 30.7 24.8 37.2



Abundance Ion 99.00 (98.70 to 99.70): BN003311.D (-483) (-)



#6

bis(2-Chloroethyl)ether

Concen: 0.169 ng

RT: 7.30 min Scan# 530

Delta R.T. -0.00 min

Lab File: BN003311.D

Acq: 26 Oct 2018 18:53

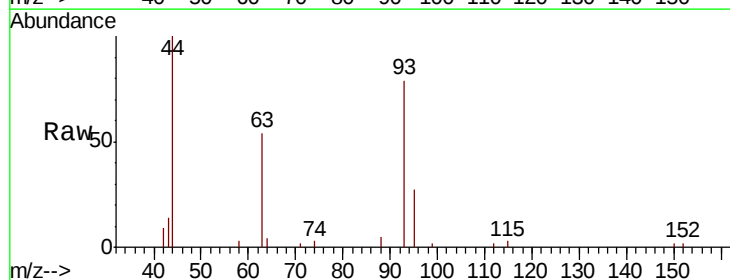
Tgt Ion: 93 Resp: 5757

Ion Ratio Lower Upper

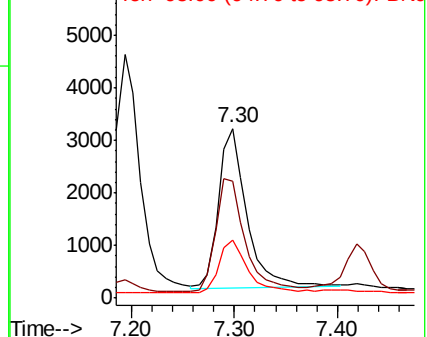
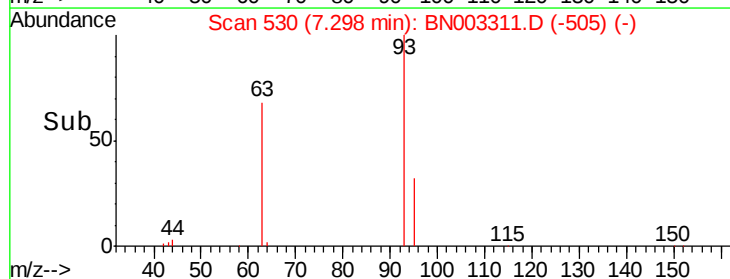
93 100

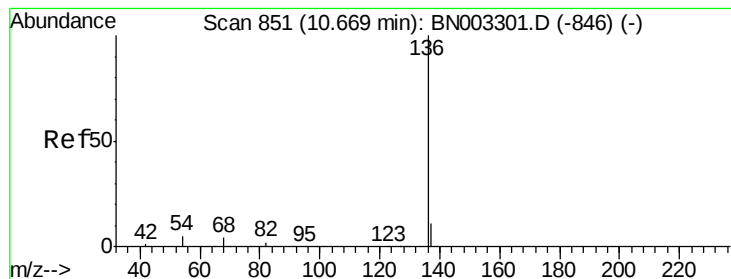
63 74.6 55.8 83.6

95 34.2 25.4 38.2



Abundance Ion 93.00 (92.70 to 93.70): BN003311.D (-505) (-)





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.67 min Scan# 851

Delta R.T. -0.00 min

Lab File: BN003311.D

Acq: 26 Oct 2018 18:53

Instrument :

BNA_N

ClientSampleId :

LOQ-SOIL-02-QT4-2018

Tgt Ion:136 Resp: 50797

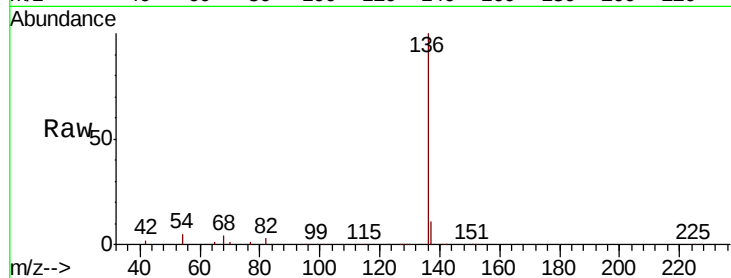
Ion Ratio Lower Upper

136 100

137 11.1 9.0 13.4

54 4.8 4.1 6.1

68 4.2 3.5 5.3

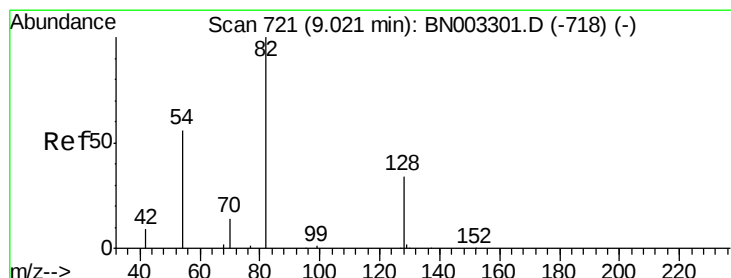
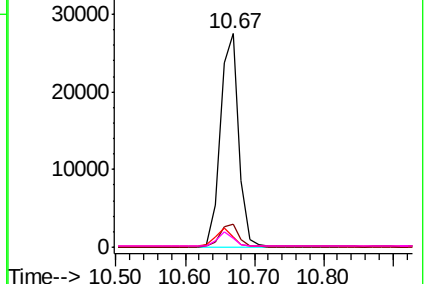
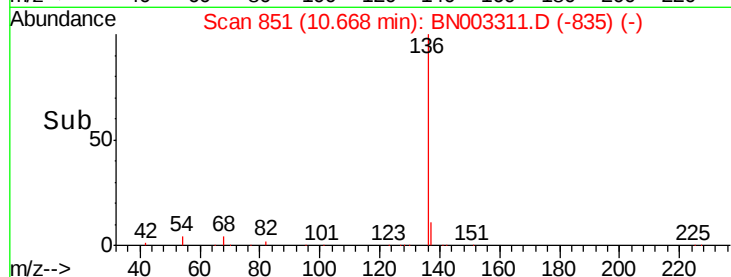


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BNC

Ion 68.00 (67.70 to 68.70): BNC



#8

Nitrobenzene-d5

Concen: 0.443 ng

RT: 9.02 min Scan# 721

Delta R.T. -0.00 min

Lab File: BN003311.D

Acq: 26 Oct 2018 18:53

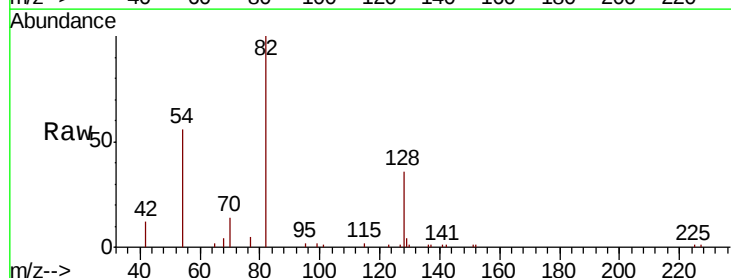
Tgt Ion: 82 Resp: 9858

Ion Ratio Lower Upper

82 100

128 36.1 28.9 43.3

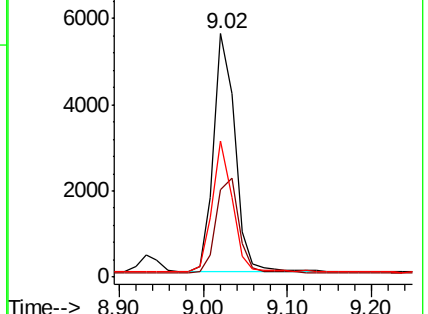
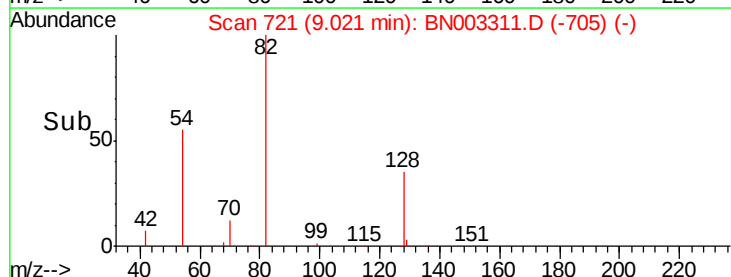
54 55.8 46.1 69.1

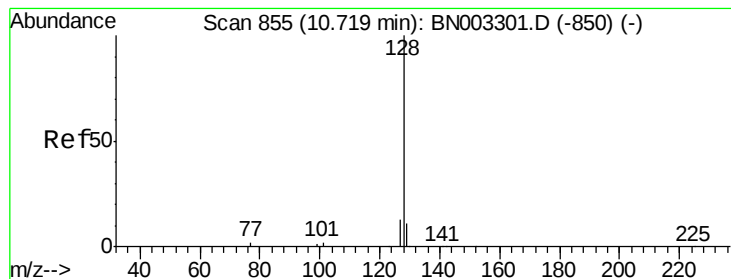


Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC





#9

Naphthalene

Concen: 0.179 ng

RT: 10.71 min Scan# 854

Delta R.T. -0.01 min

Lab File: BN003311.D

Acq: 26 Oct 2018 18:53

Instrument :

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ClientSampleId :

LOQ-SOIL-02-QT4-2018

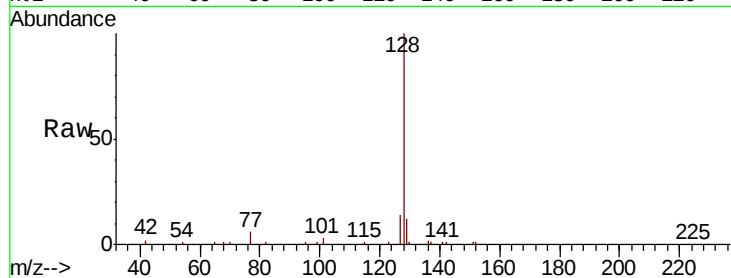
Tgt Ion:128 Resp: 22209

Ion Ratio Lower Upper

128 100

129 11.7 9.1 13.7

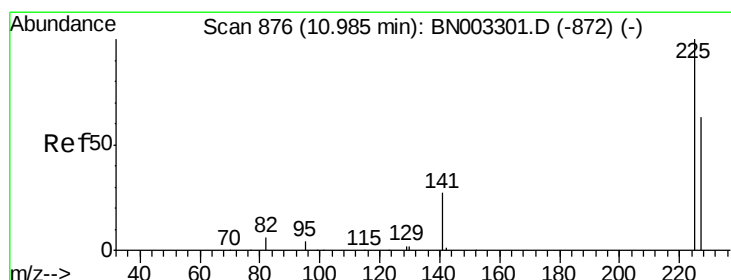
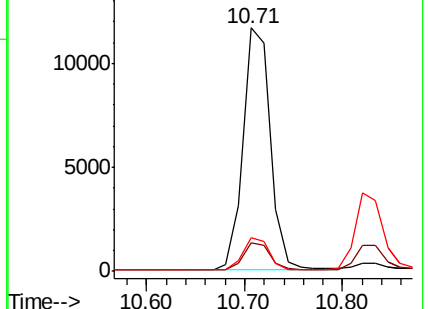
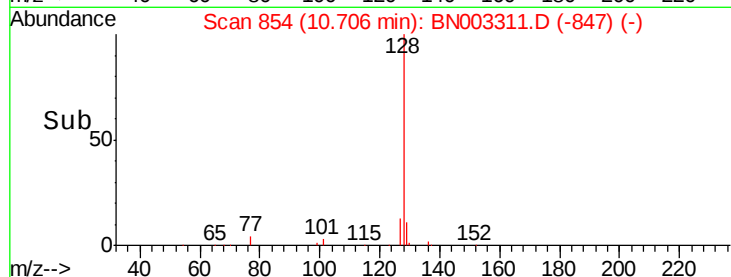
127 13.6 10.2 15.4



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: 0.183 ng

RT: 10.99 min Scan# 876

Delta R.T. -0.00 min

Lab File: BN003311.D

Acq: 26 Oct 2018 18:53

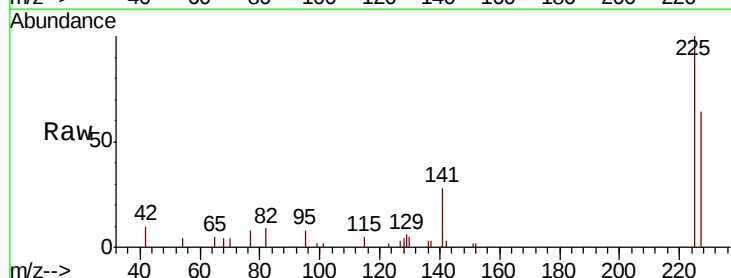
Tgt Ion:225 Resp: 4146

Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

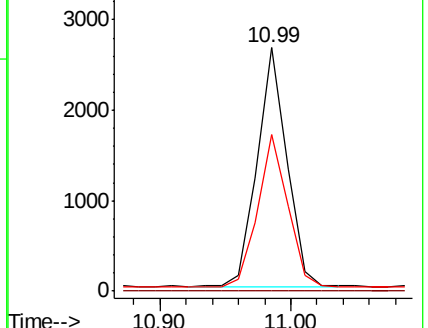
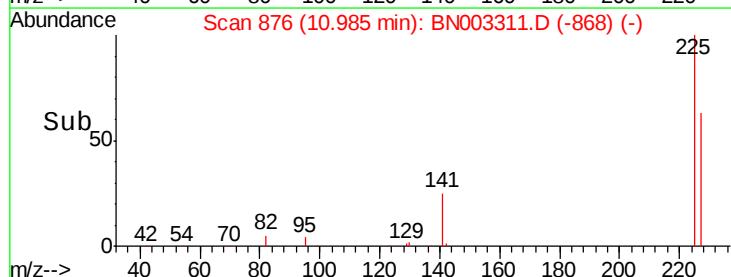
227 64.1 51.3 76.9

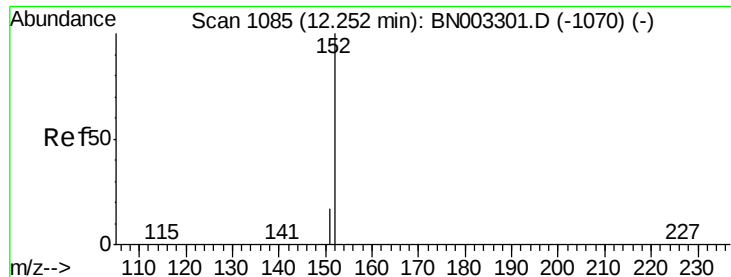


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

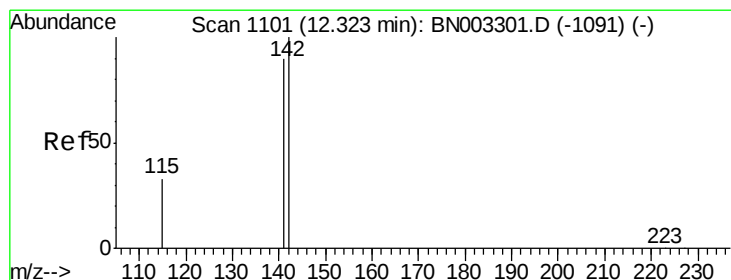
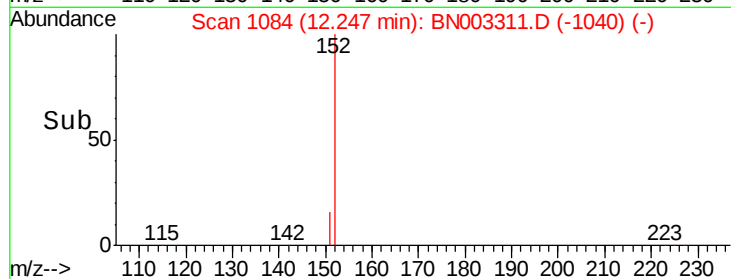
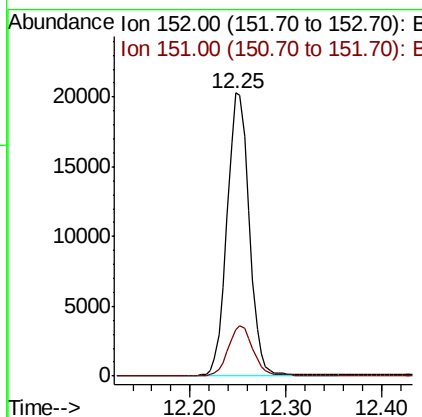
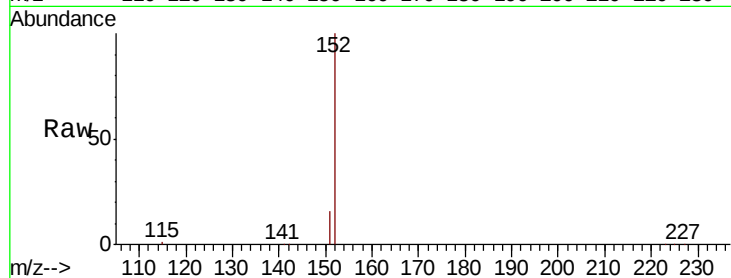




#11
 2-Methylnaphthalene-d10
 Concen: 0.393 ng
 RT: 12.25 min Scan# 1084
 Delta R.T. -0.00 min
 Lab File: BN003311.D
 Acq: 26 Oct 2018 18:53

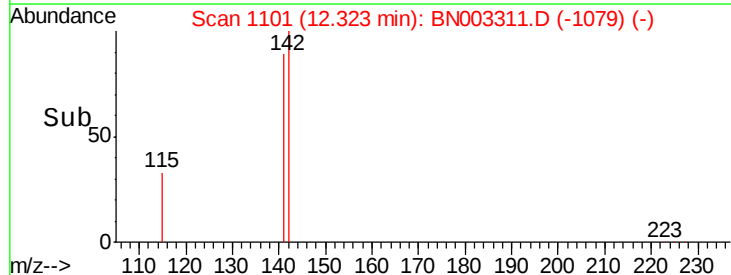
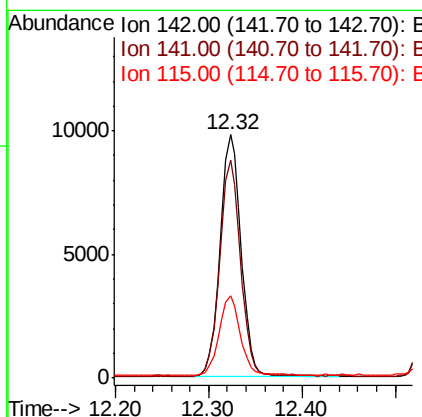
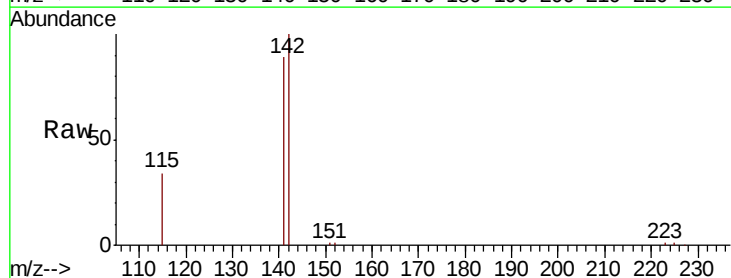
Instrument :
 BNA_N
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

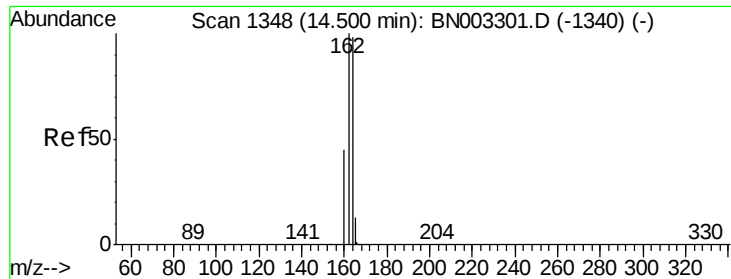
Tgt Ion:152 Resp: 32477
 Ion Ratio Lower Upper
 152 100
 151 19.1 15.1 22.7



#12
 2-Methylnaphthalene
 Concen: 0.174 ng
 RT: 12.32 min Scan# 1101
 Delta R.T. -0.00 min
 Lab File: BN003311.D
 Acq: 26 Oct 2018 18:53

Tgt Ion:142 Resp: 15140
 Ion Ratio Lower Upper
 142 100
 141 89.3 71.9 107.9
 115 33.9 27.0 40.6





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.50 min Scan# 1348

Delta R.T. -0.00 min

Lab File: BN003311.D

Acq: 26 Oct 2018 18:53

Instrument :

BNA_N

ClientSampleId :

LOQ-SOIL-02-QT4-2018

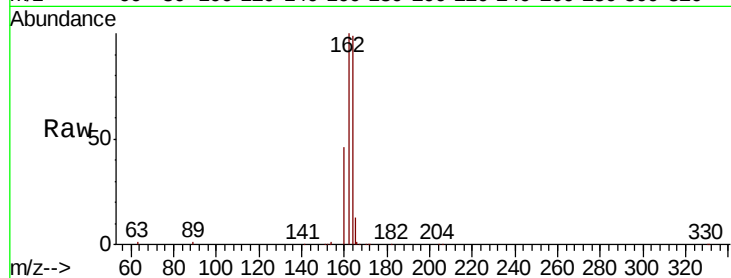
Tgt Ion:164 Resp: 29760

Ion Ratio Lower Upper

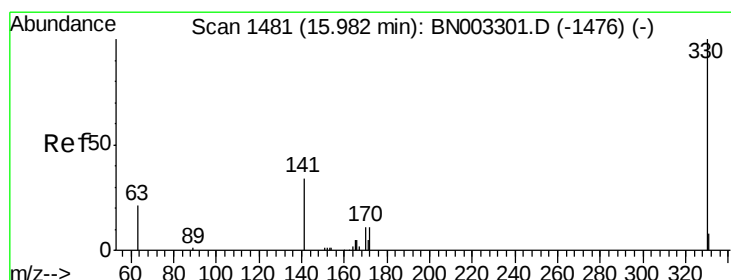
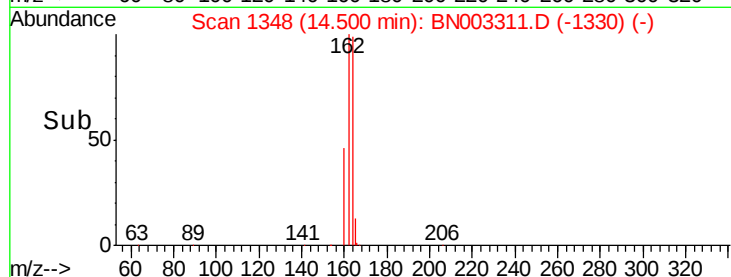
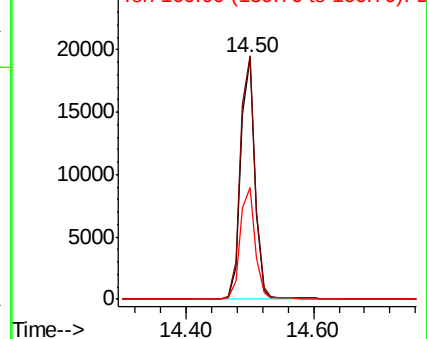
164 100

162 100.9 81.8 122.6

160 46.5 37.2 55.8



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: 0.327 ng

RT: 15.98 min Scan# 1481

Delta R.T. -0.00 min

Lab File: BN003311.D

Acq: 26 Oct 2018 18:53

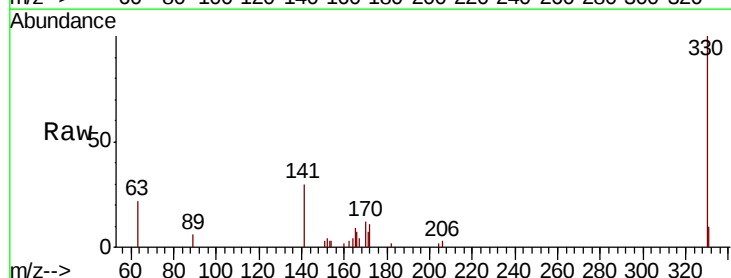
Tgt Ion:330 Resp: 3872

Ion Ratio Lower Upper

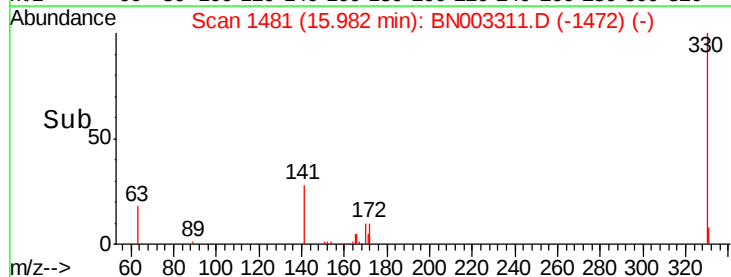
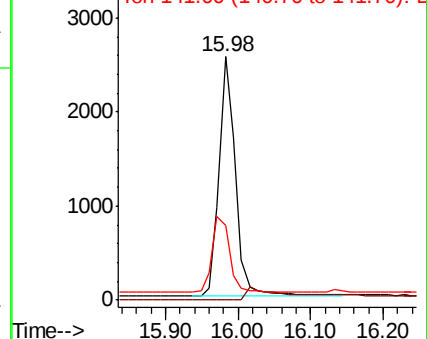
330 100

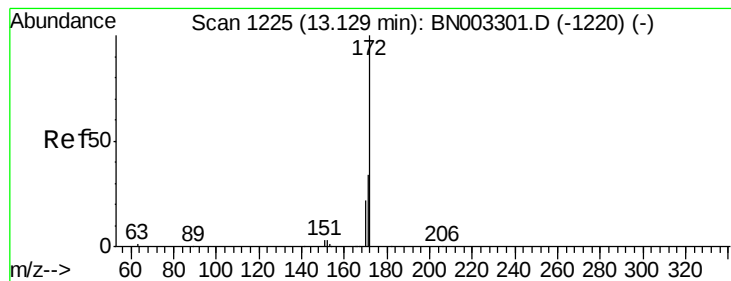
332 0.0 0.0 0.0

141 34.5 28.3 42.5



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: 0.415 ng

RT: 13.12 min Scan# 1224

Delta R.T. -0.01 min

Lab File: BN003311.D

Acq: 26 Oct 2018 18:53

Instrument :

BNA_N

ClientSampleId :

LOQ-SOIL-02-QT4-2018

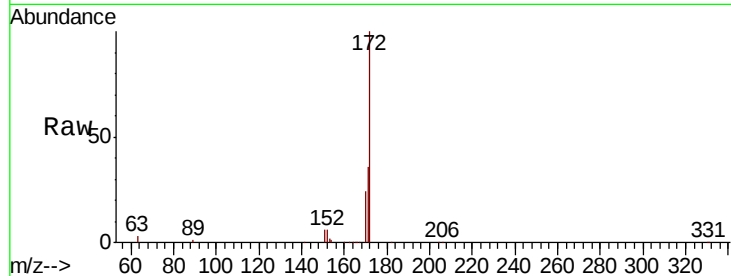
Tgt Ion:172 Resp: 53116

Ion Ratio Lower Upper

172 100

171 35.7 27.1 40.7

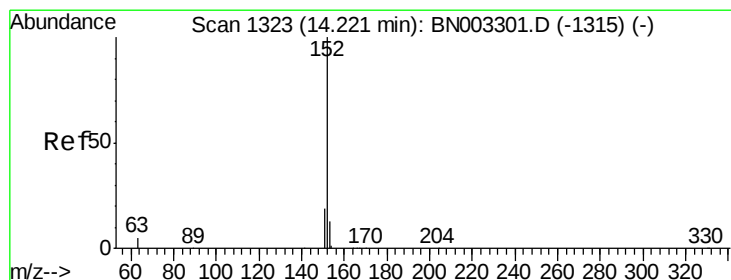
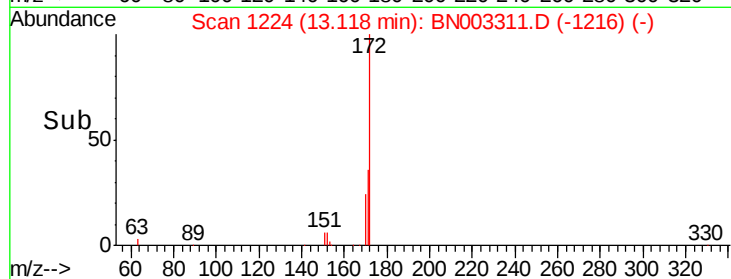
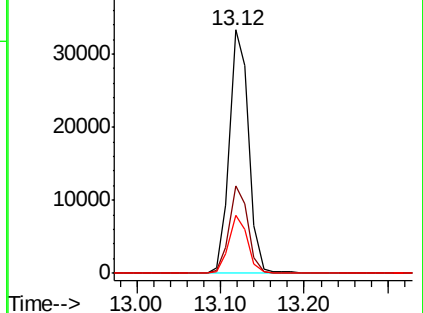
170 23.9 17.4 26.0



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#16

Acenaphthylene

Concen: 0.152 ng

RT: 14.22 min Scan# 1323

Delta R.T. -0.00 min

Lab File: BN003311.D

Acq: 26 Oct 2018 18:53

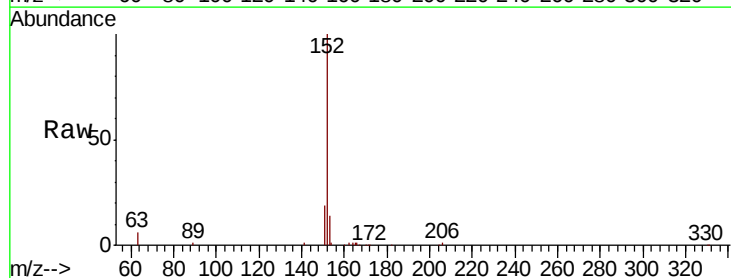
Tgt Ion:152 Resp: 20176

Ion Ratio Lower Upper

152 100

151 19.3 15.7 23.5

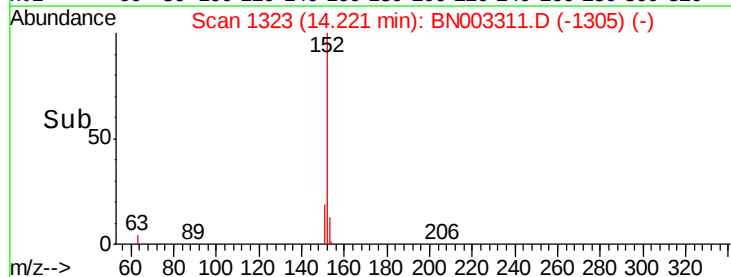
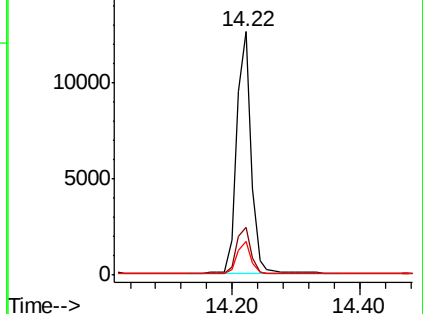
153 13.3 10.6 15.8

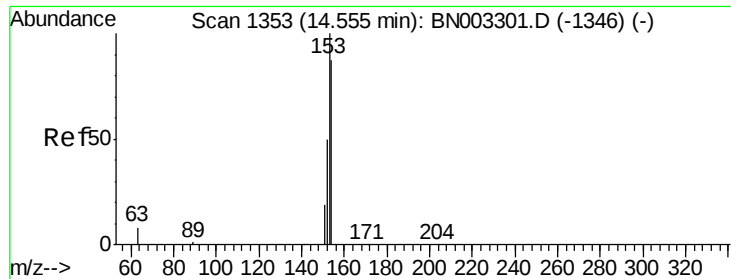


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#17

Acenaphthene

Concen: 0.169 ng

RT: 14.56 min Scan# 1353

Delta R.T. -0.00 min

Lab File: BN003311.D

Acq: 26 Oct 2018 18:53

Instrument :

BNA_N

ClientSampleId :

LOQ-SOIL-02-QT4-2018

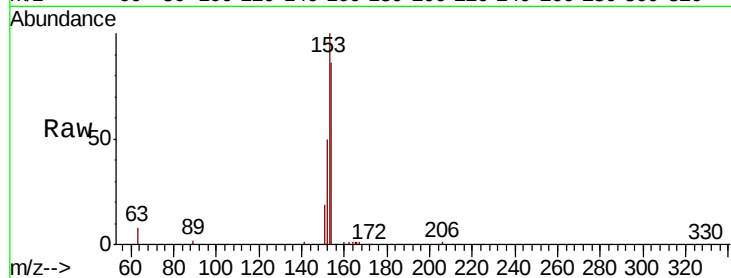
Tgt Ion:154 Resp: 15498

Ion Ratio Lower Upper

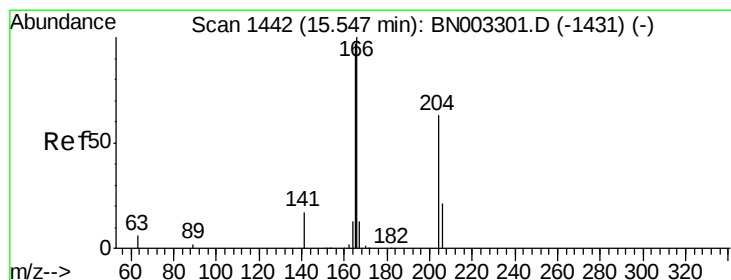
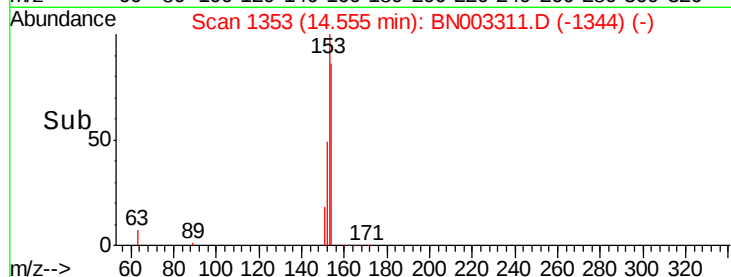
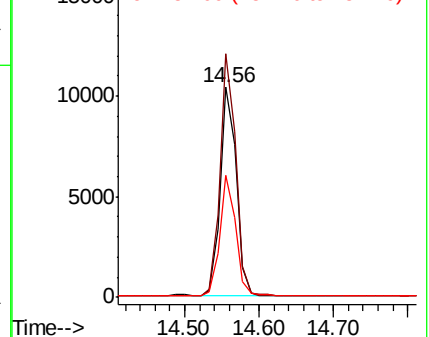
154 100

153 113.6 88.9 133.3

152 56.1 43.5 65.3



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



#18

Fluorene

Concen: 0.166 ng

RT: 15.55 min Scan# 1442

Delta R.T. -0.00 min

Lab File: BN003311.D

Acq: 26 Oct 2018 18:53

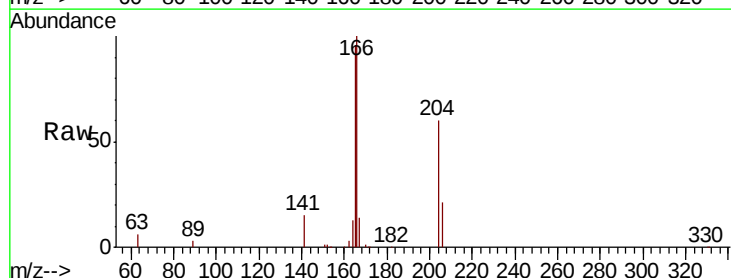
Tgt Ion:166 Resp: 19115

Ion Ratio Lower Upper

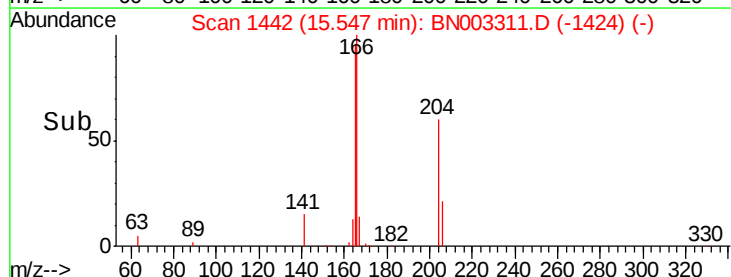
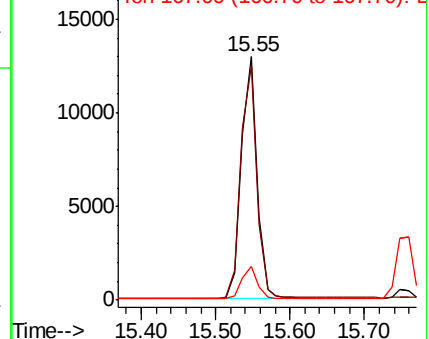
166 100

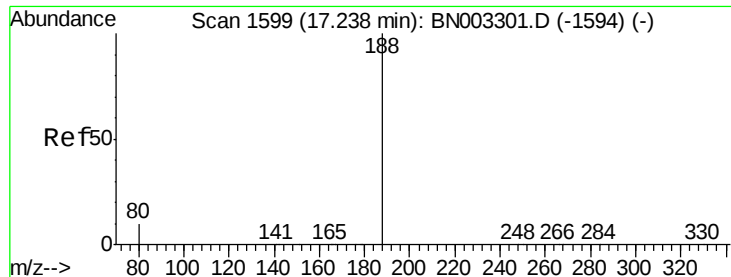
165 97.8 77.8 116.8

167 13.5 10.9 16.3



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: 0.400 ng

RT: 17.24 min Scan# 1599

Delta R.T. -0.00 min

Lab File: BN003311.D

Acq: 26 Oct 2018 18:53

Instrument :

BNA_N

ClientSampleId :

LOQ-SOIL-02-QT4-2018

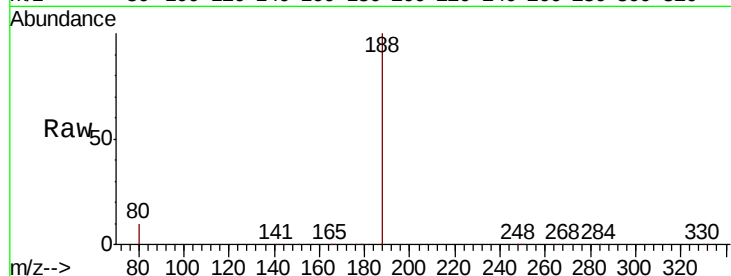
Tgt Ion:188 Resp: 72827

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

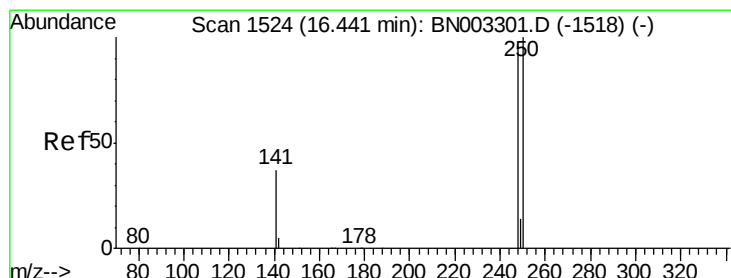
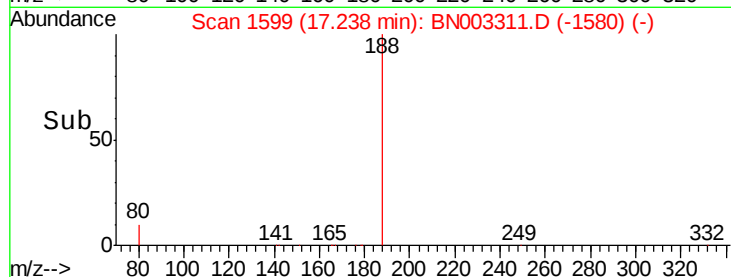
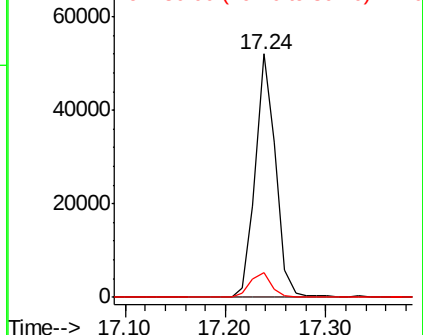
80 10.1 8.6 12.8



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC



#20

4-Bromophenyl-phenylether

Concen: 0.169 ng

RT: 16.43 min Scan# 1523

Delta R.T. -0.01 min

Lab File: BN003311.D

Acq: 26 Oct 2018 18:53

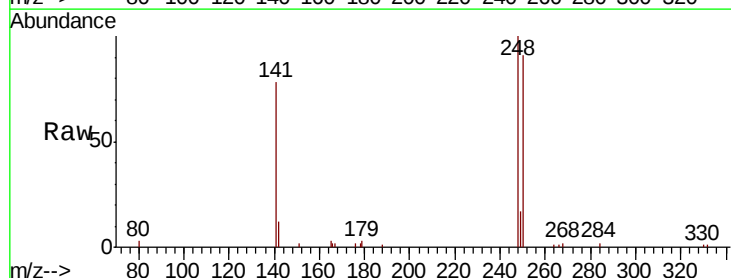
Tgt Ion:248 Resp: 7118

Ion Ratio Lower Upper

248 100

250 91.3 83.7 125.5

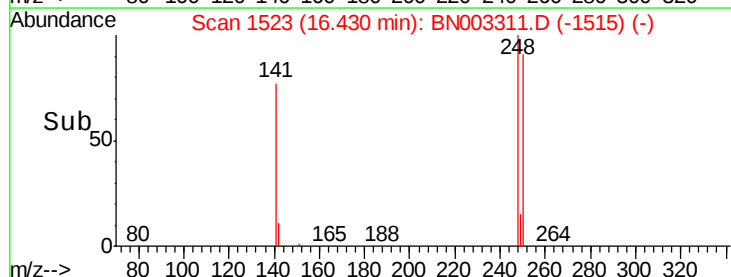
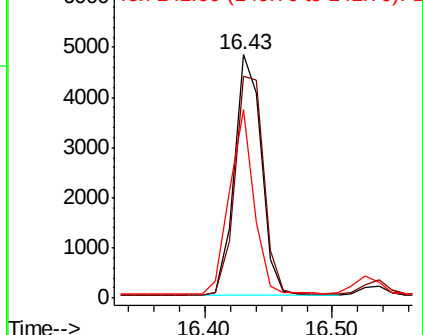
141 77.6 31.4 47.0#

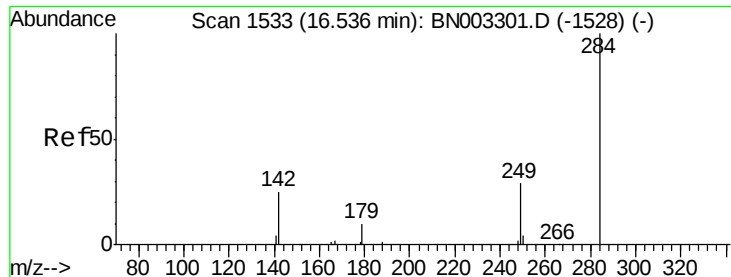


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 0.178 ng

RT: 16.54 min Scan# 1533

Delta R.T. -0.00 min

Lab File: BN003311.D

Acq: 26 Oct 2018 18:53

Instrument :

BNA_N

ClientSampleId :

LOQ-SOIL-02-QT4-2018

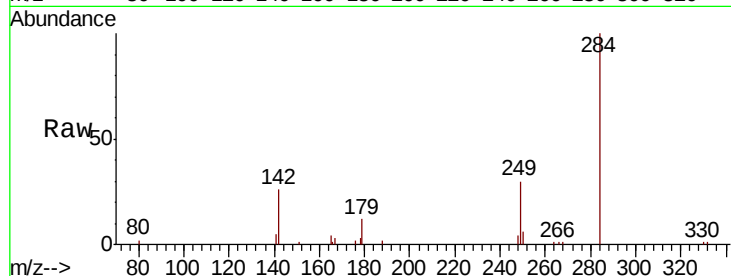
Tgt Ion:284 Resp: 7895

Ion Ratio Lower Upper

284 100

142 36.7 29.7 44.5

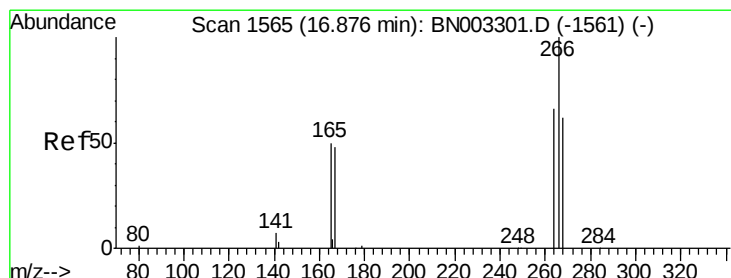
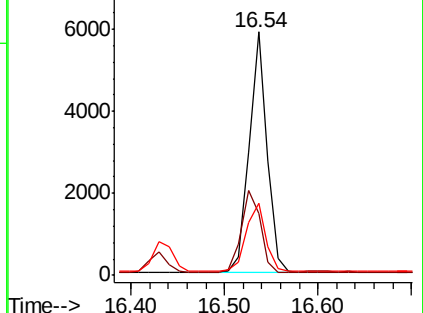
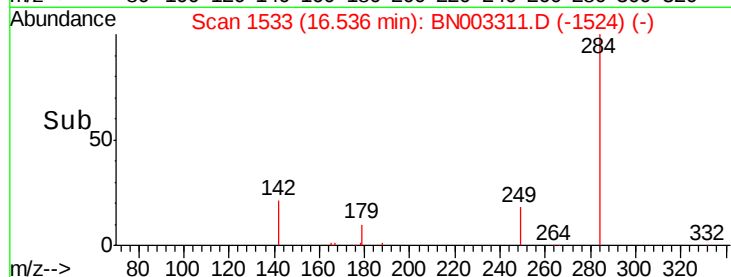
249 30.4 24.0 36.0



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: 0.150 ng

RT: 16.88 min Scan# 1565

Delta R.T. -0.00 min

Lab File: BN003311.D

Acq: 26 Oct 2018 18:53

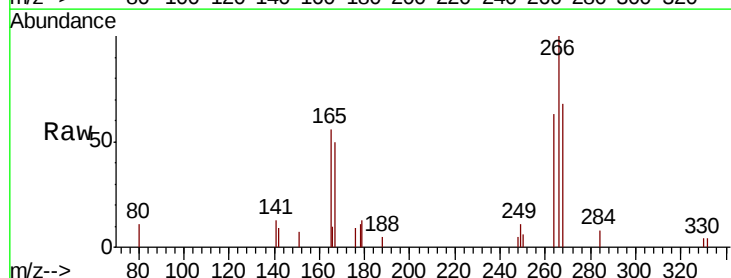
Tgt Ion:266 Resp: 1807

Ion Ratio Lower Upper

266 100

264 62.9 52.1 78.1

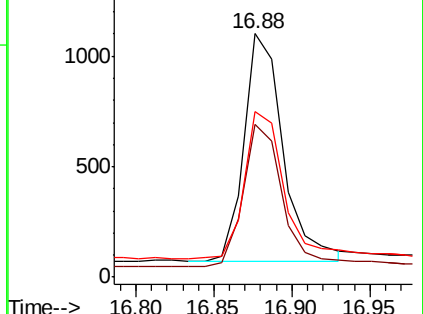
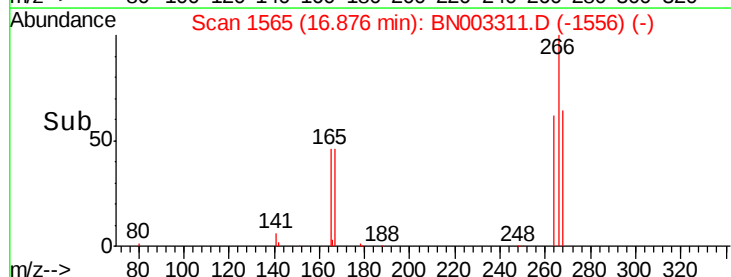
268 67.8 51.8 77.6

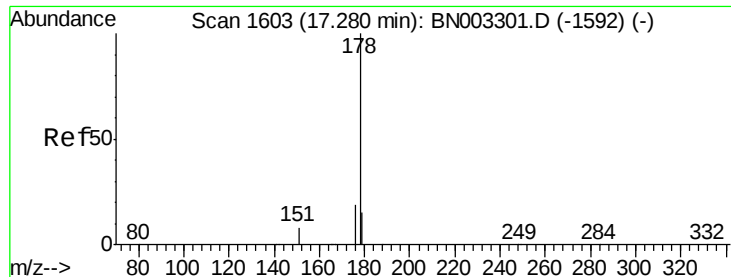


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.169 ng

RT: 17.28 min Scan# 1603

Delta R.T. -0.00 min

Lab File: BN003311.D

Acq: 26 Oct 2018 18:53

Instrument :

BNA_N

ClientSampleId :

LOQ-SOIL-02-QT4-2018

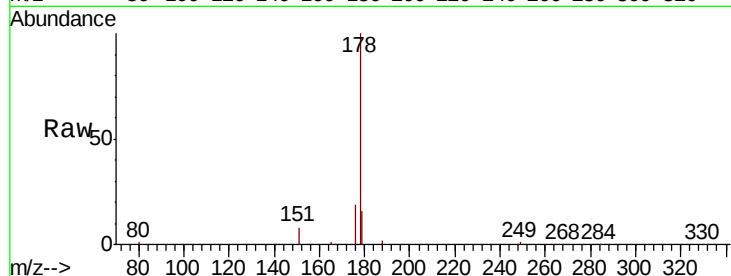
Tgt Ion:178 Resp: 33786

Ion Ratio Lower Upper

178 100

176 18.9 15.1 22.7

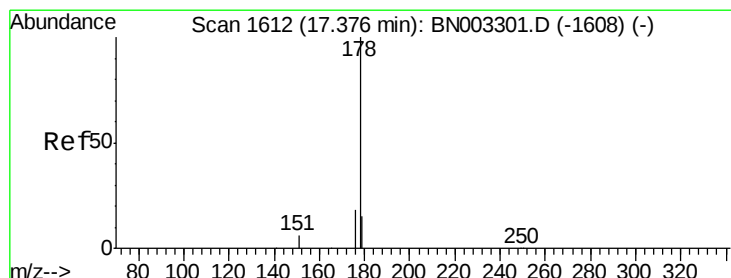
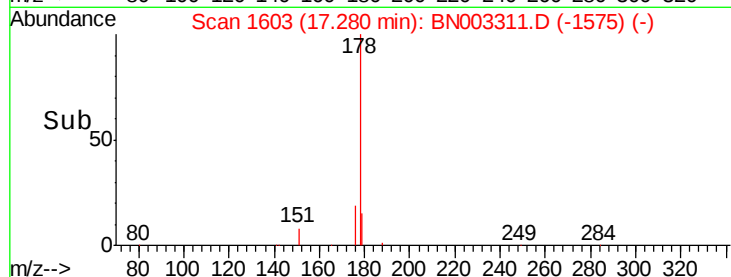
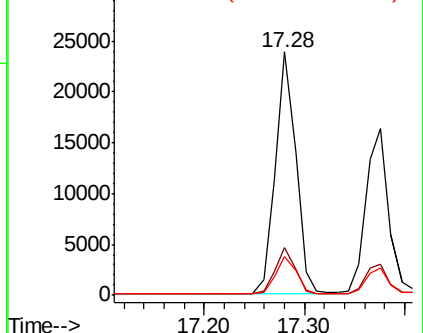
179 15.8 12.4 18.6



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: 0.152 ng

RT: 17.38 min Scan# 1612

Delta R.T. -0.00 min

Lab File: BN003311.D

Acq: 26 Oct 2018 18:53

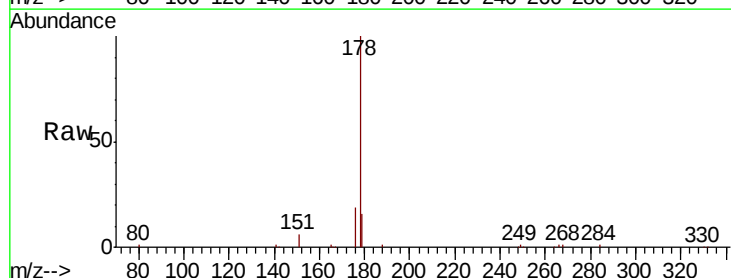
Tgt Ion:178 Resp: 26066

Ion Ratio Lower Upper

178 100

176 18.4 14.5 21.7

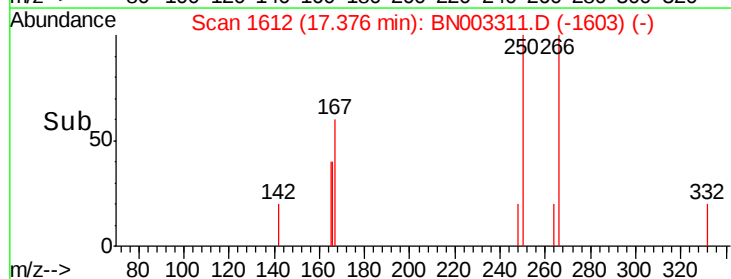
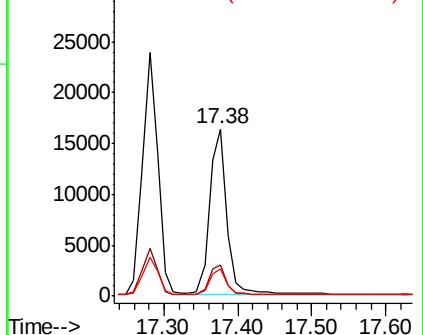
179 15.4 12.2 18.4

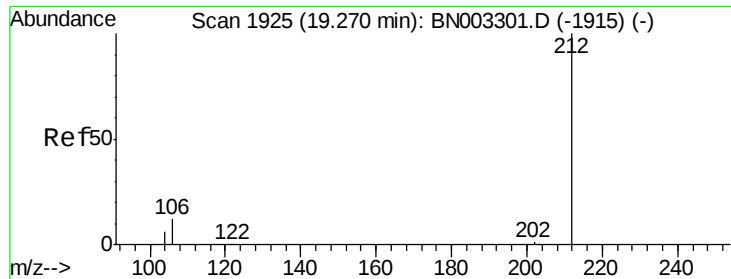


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

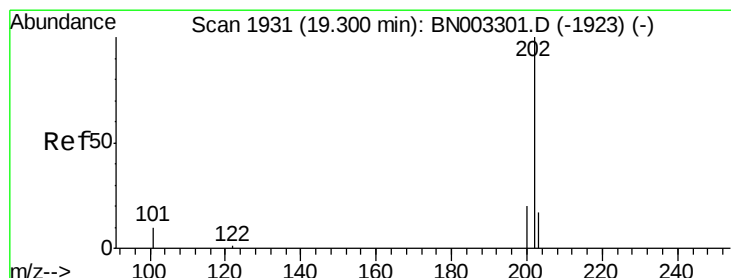
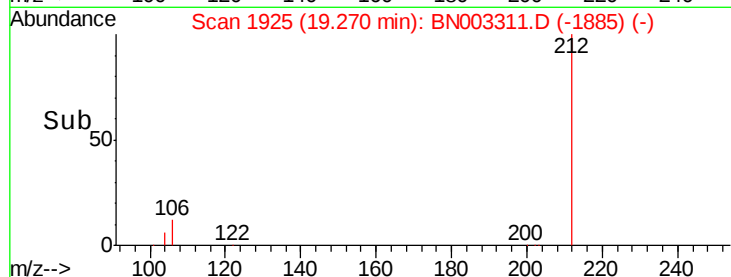
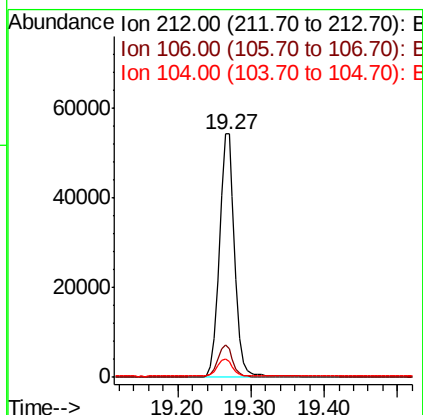
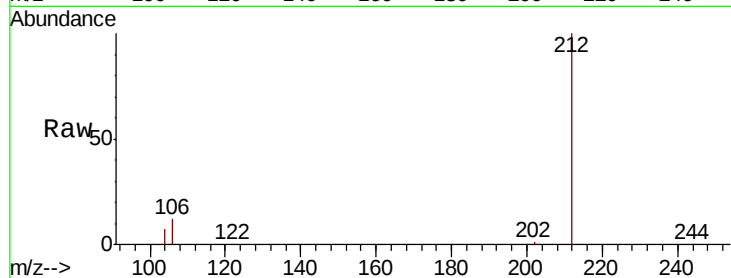




#25
 Fluoranthene-d10
 Concen: 0.371 ng
 RT: 19.27 min Scan# 1925
 Delta R.T. -0.00 min
 Lab File: BN003311.D
 Acq: 26 Oct 2018 18:53

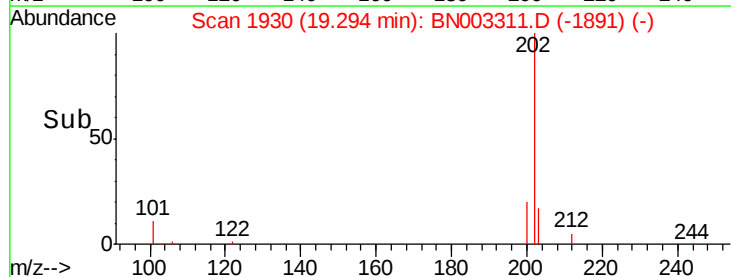
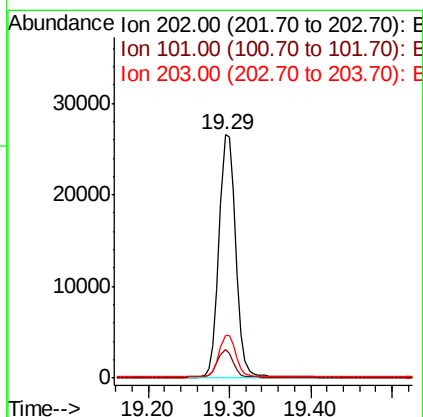
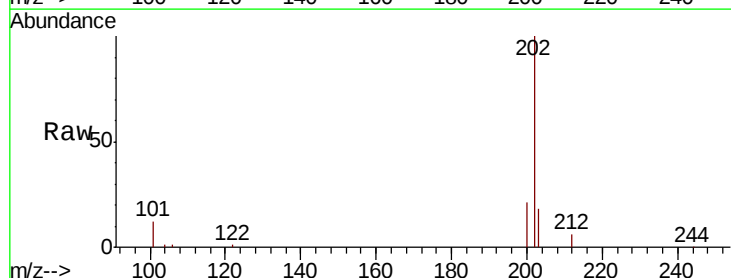
Instrument :
 BNA_N
 ClientSampleId :
 LOQ-SOIL-02-QT4-2018

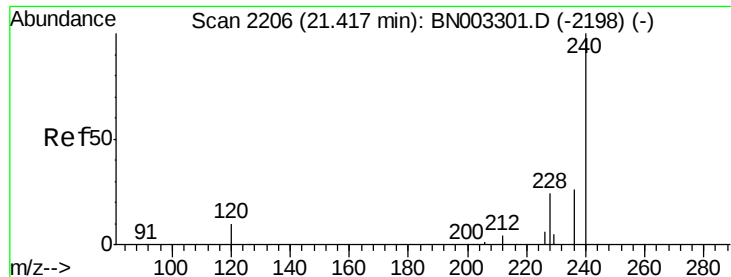
Tgt Ion:212 Resp: 78565
 Ion Ratio Lower Upper
 212 100
 106 12.7 10.3 15.5
 104 7.0 5.6 8.4



#26
 Fluoranthene
 Concen: 0.164 ng
 RT: 19.29 min Scan# 1930
 Delta R.T. -0.01 min
 Lab File: BN003311.D
 Acq: 26 Oct 2018 18:53

Tgt Ion:202 Resp: 37623
 Ion Ratio Lower Upper
 202 100
 101 11.3 9.0 13.4
 203 17.2 13.8 20.6

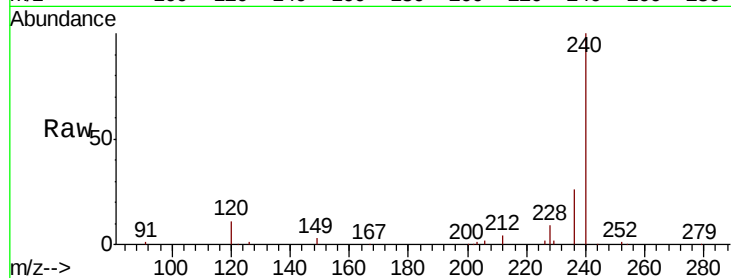




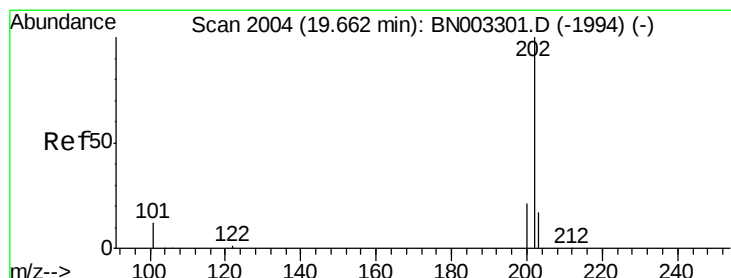
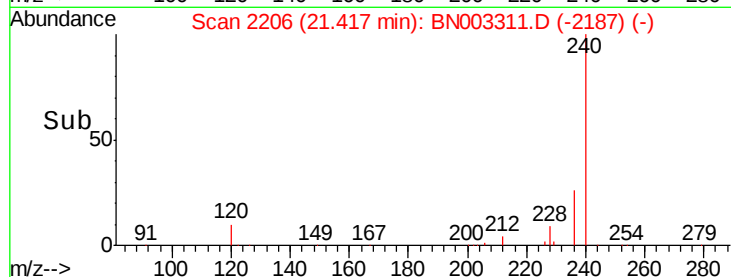
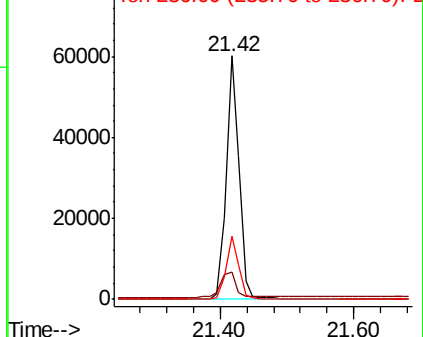
#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.42 min Scan# 2206
Delta R.T. -0.00 min
Lab File: BN003311.D
Acq: 26 Oct 2018 18:53

Instrument :
BNA_N
ClientSampleId :
LOQ-SOIL-02-QT4-2018

Tgt Ion:240 Resp: 78915
Ion Ratio Lower Upper
240 100
120 11.0 9.3 13.9
236 26.1 21.0 31.4

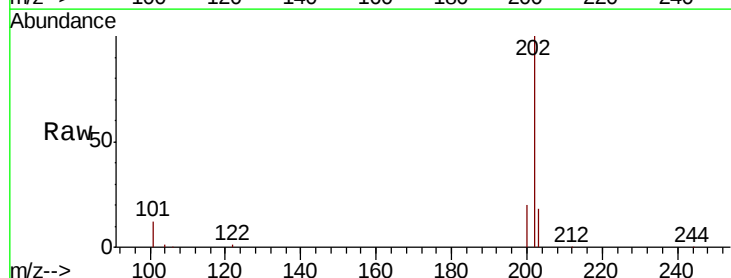


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

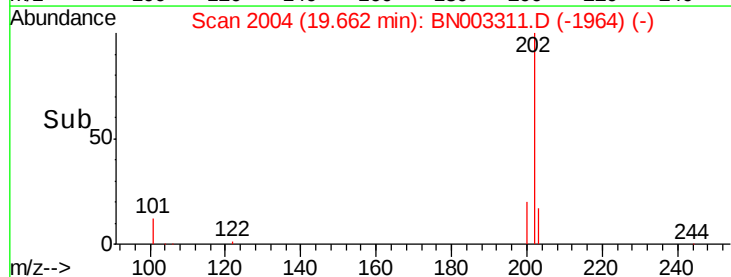
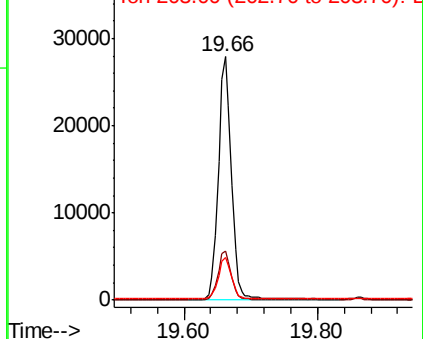


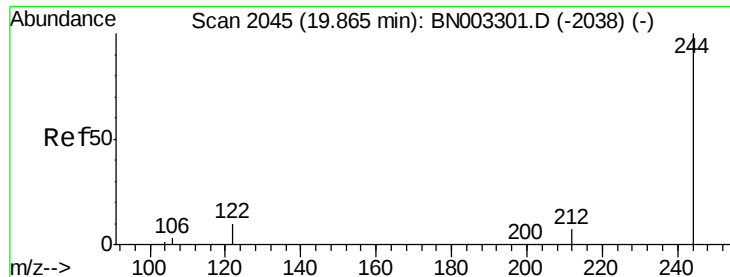
#28
Pyrene
Concen: 0.173 ng
RT: 19.66 min Scan# 2004
Delta R.T. -0.00 min
Lab File: BN003311.D
Acq: 26 Oct 2018 18:53

Tgt Ion:202 Resp: 37738
Ion Ratio Lower Upper
202 100
200 20.3 16.5 24.7
203 17.5 13.9 20.9



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: 0.393 ng

RT: 19.87 min Scan# 2045

Delta R.T. -0.00 min

Lab File: BN003311.D

Acq: 26 Oct 2018 18:53

Instrument :

BNA_N

ClientSampleId :

LOQ-SOIL-02-QT4-2018

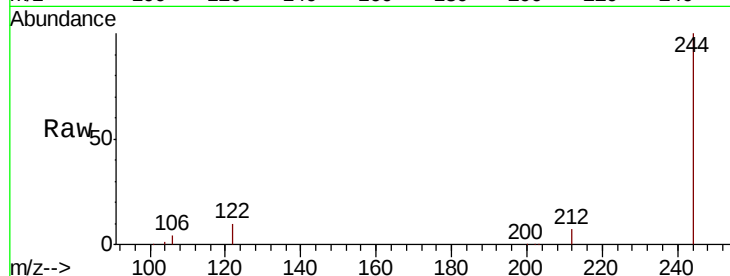
Tgt Ion:244 Resp: 72123

Ion Ratio Lower Upper

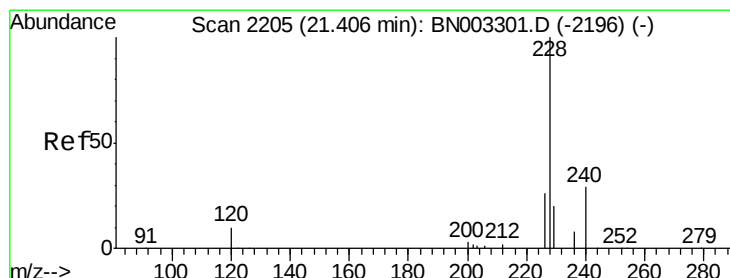
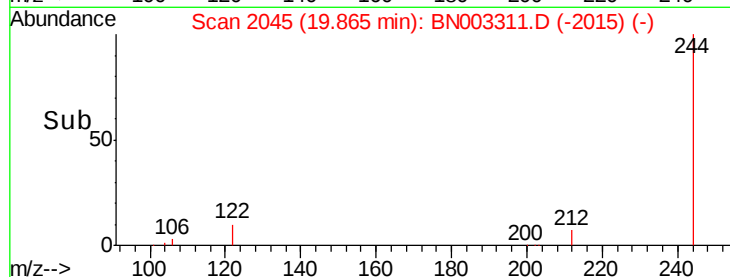
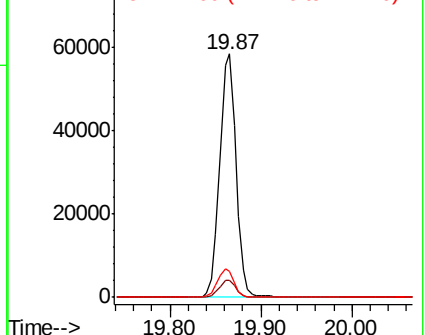
244 100

212 6.9 5.6 8.4

122 10.5 8.5 12.7



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: 0.151 ng

RT: 21.41 min Scan# 2205

Delta R.T. -0.00 min

Lab File: BN003311.D

Acq: 26 Oct 2018 18:53

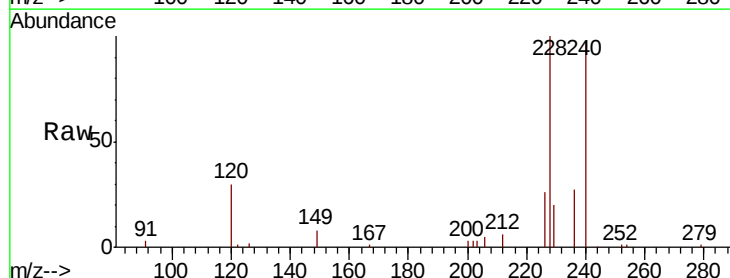
Tgt Ion:228 Resp: 31247

Ion Ratio Lower Upper

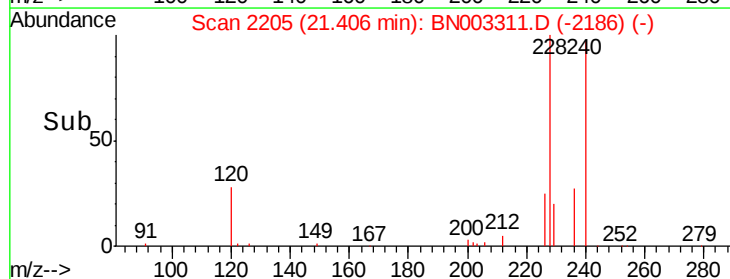
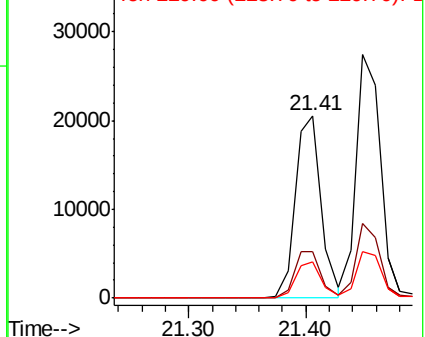
228 100

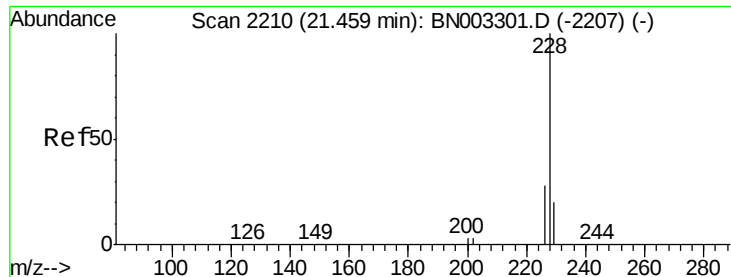
226 25.6 20.8 31.2

229 20.2 16.1 24.1



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: 0.176 ng

RT: 21.45 min Scan# 2209

Delta R.T. -0.01 min

Lab File: BN003311.D

Acq: 26 Oct 2018 18:53

Instrument :

BNA_N

ClientSampleId :

LOQ-SOIL-02-QT4-2018

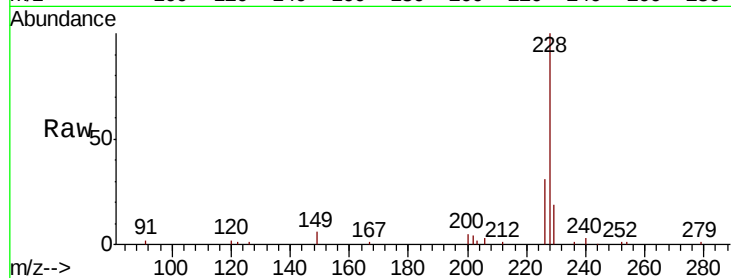
Tgt Ion:228 Resp: 39355

Ion Ratio Lower Upper

228 100

226 30.8 22.7 34.1

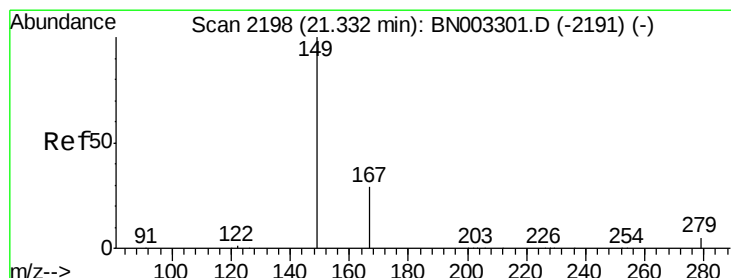
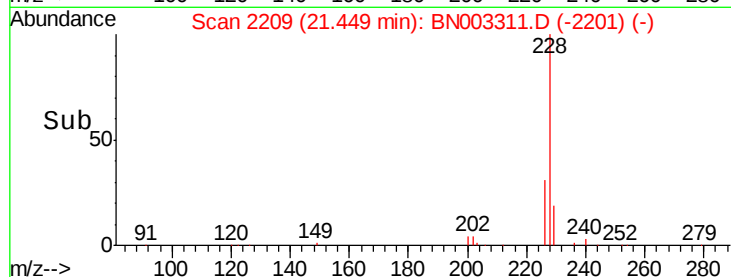
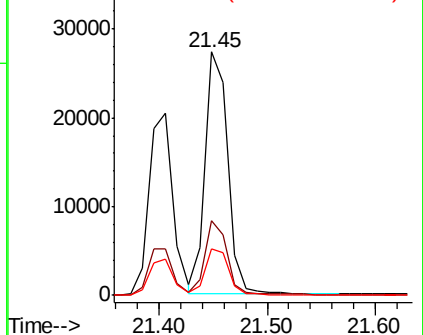
229 19.1 16.0 24.0



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: 0.145 ng

RT: 21.32 min Scan# 2197

Delta R.T. -0.01 min

Lab File: BN003311.D

Acq: 26 Oct 2018 18:53

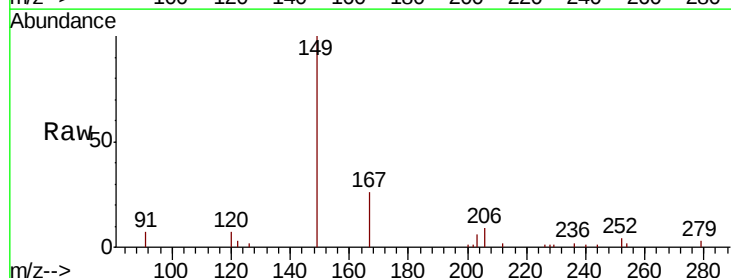
Tgt Ion:149 Resp: 8884

Ion Ratio Lower Upper

149 100

167 28.3 22.4 33.6

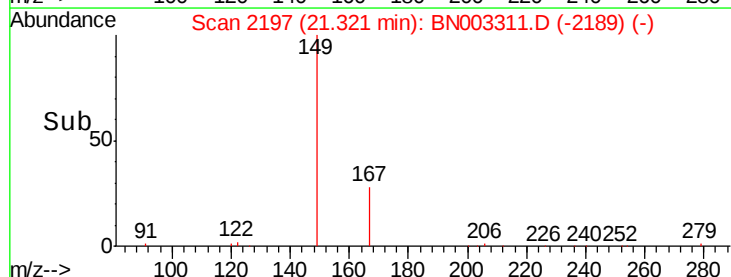
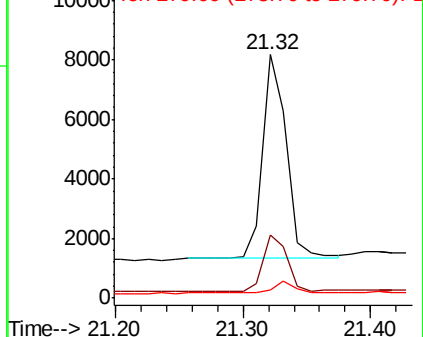
279 5.0 3.9 5.9

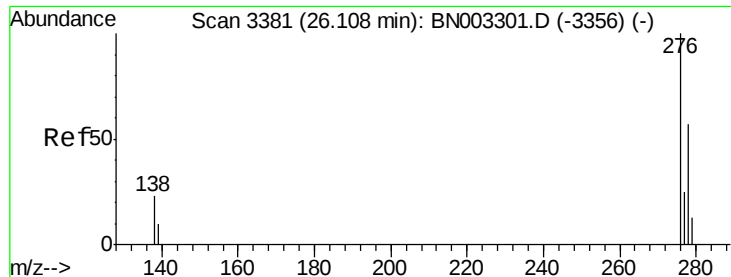


Abundance Ion 149.00 (148.70 to 149.70): E

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: 0.168 ng

RT: 26.10 min Scan# 3380

Delta R.T. -0.00 min

Lab File: BN003311.D

Acq: 26 Oct 2018 18:53

Instrument :

BNA_N

ClientSampleId :

LOQ-SOIL-02-QT4-2018

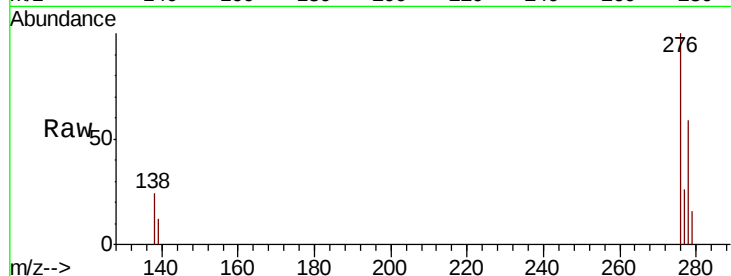
Tgt Ion:276 Resp: 38715

Ion Ratio Lower Upper

276 100

138 23.4 20.6 30.8

277 24.9 20.0 30.0

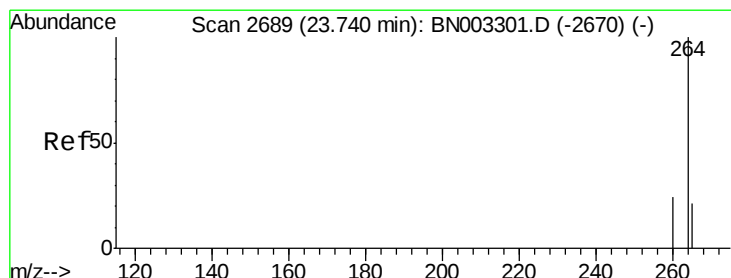
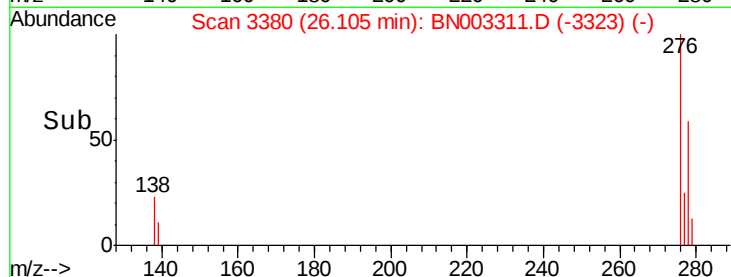
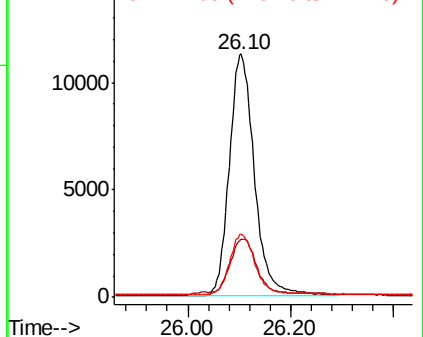


Abundance

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: 23.74 min Scan# 2689

Delta R.T. -0.00 min

Lab File: BN003311.D

Acq: 26 Oct 2018 18:53

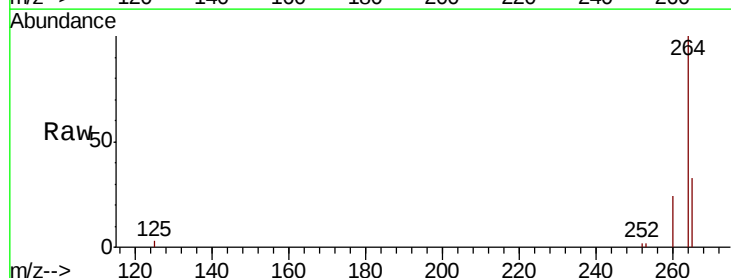
Tgt Ion:264 Resp: 73205

Ion Ratio Lower Upper

264 100

260 23.9 19.1 28.7

265 32.6 26.4 39.6

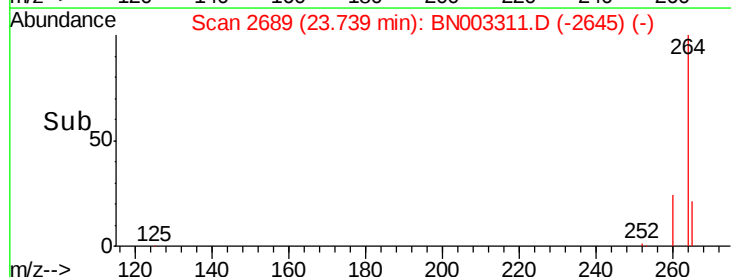
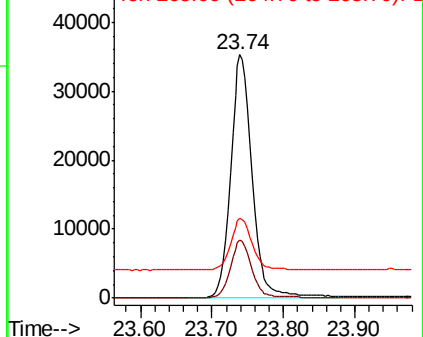


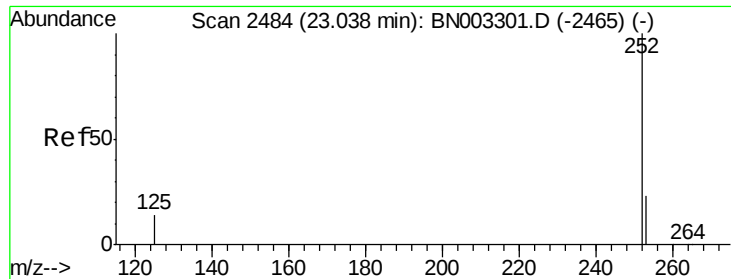
Abundance

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: 0.172 ng

RT: 23.03 min Scan# 2483

Delta R.T. -0.00 min

Lab File: BN003311.D

Acq: 26 Oct 2018 18:53

Instrument :

BNA_N

ClientSampleId :

LOQ-SOIL-02-QT4-2018

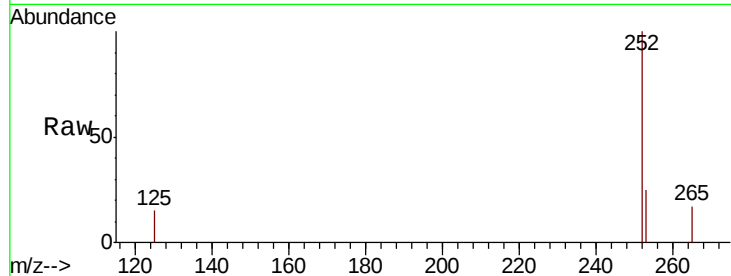
Tgt Ion:252 Resp: 38841

Ion Ratio Lower Upper

252 100

253 24.8 19.3 28.9

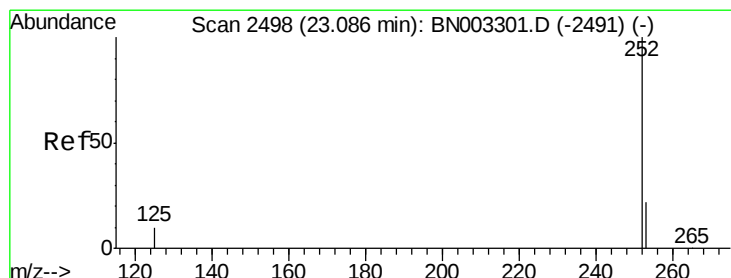
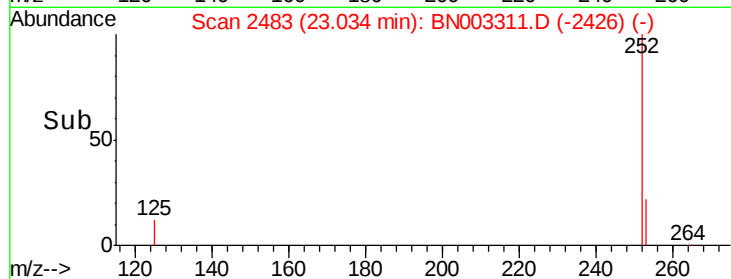
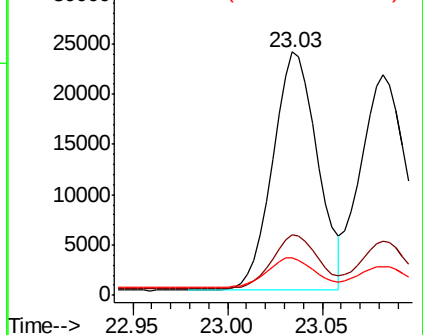
125 15.4 12.7 19.1



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



#36

Benzo(k)fluoranthene

Concen: 0.169 ng

RT: 23.08 min Scan# 2497

Delta R.T. -0.00 min

Lab File: BN003311.D

Acq: 26 Oct 2018 18:53

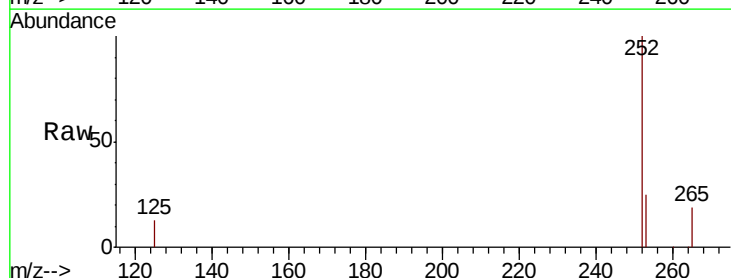
Tgt Ion:252 Resp: 38138

Ion Ratio Lower Upper

252 100

253 24.7 18.5 27.7

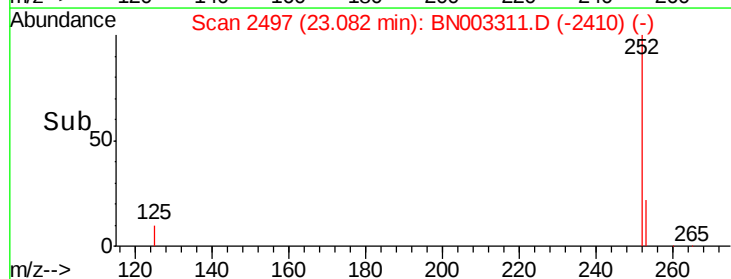
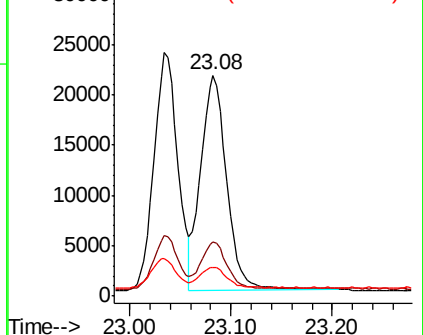
125 13.2 9.1 13.7

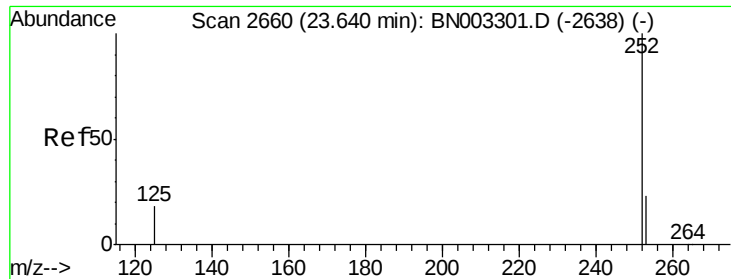


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#37

Benzo(a)pyrene

Concen: 0.164 ng

RT: 23.64 min Scan# 2659

Delta R.T. -0.00 min

Lab File: BN003311.D

Acq: 26 Oct 2018 18:53

Instrument :

BNA_N

ClientSampleId :

LOQ-SOIL-02-QT4-2018

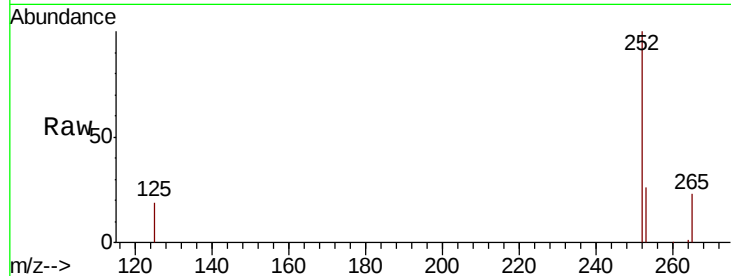
Tgt Ion:252 Resp: 34106

Ion Ratio Lower Upper

252 100

253 26.4 20.1 30.1

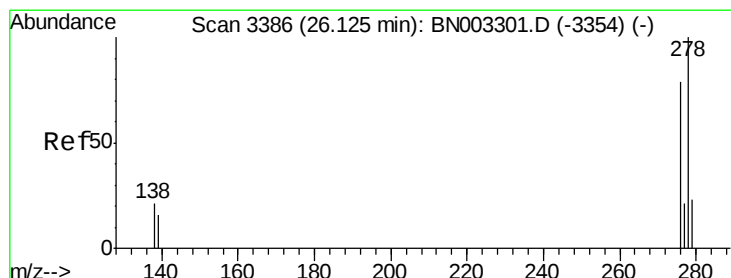
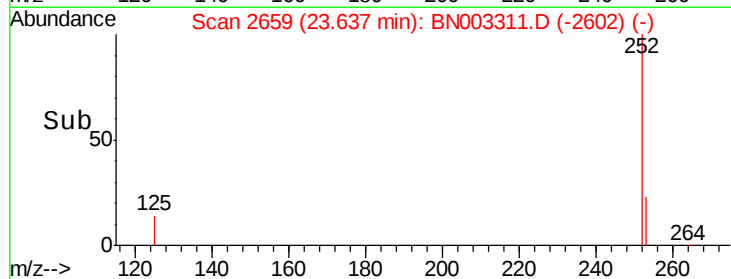
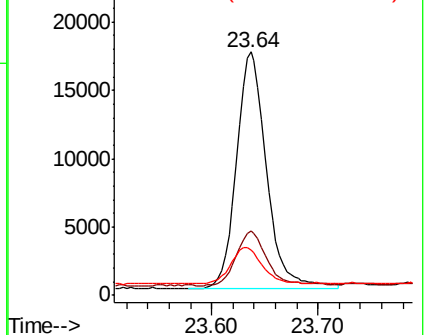
125 18.7 16.0 24.0



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: 0.161 ng

RT: 26.13 min Scan# 3386

Delta R.T. -0.00 min

Lab File: BN003311.D

Acq: 26 Oct 2018 18:53

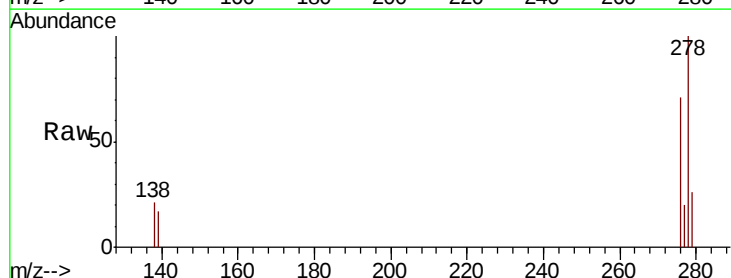
Tgt Ion:278 Resp: 31231

Ion Ratio Lower Upper

278 100

139 17.2 13.5 20.3

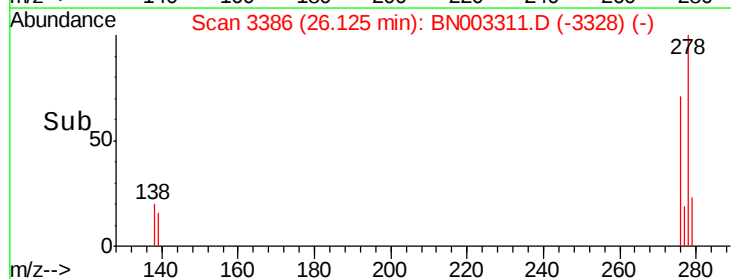
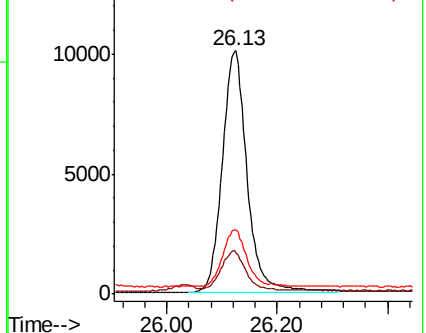
279 26.3 19.8 29.6

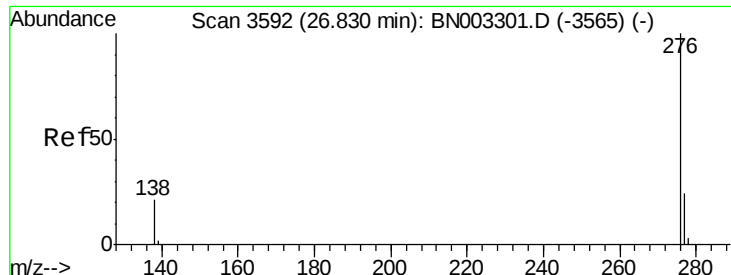


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.169 ng

RT: 26.83 min Scan# 3591

Delta R.T. -0.00 min

Lab File: BN003311.D

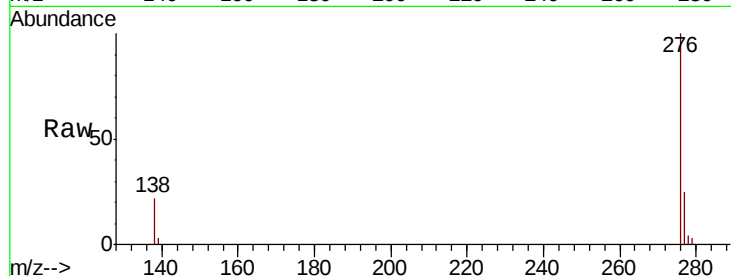
Acq: 26 Oct 2018 18:53

Instrument :

BNA_N

ClientSampleId :

LOQ-SOIL-02-QT4-2018



Tgt Ion: 276 Resp: 32699

Ion Ratio Lower Upper

276 100

277 24.7 19.5 29.3

138 21.8 17.4 26.2

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

